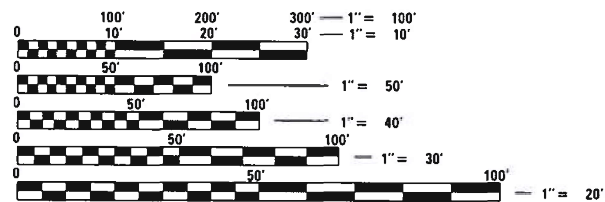
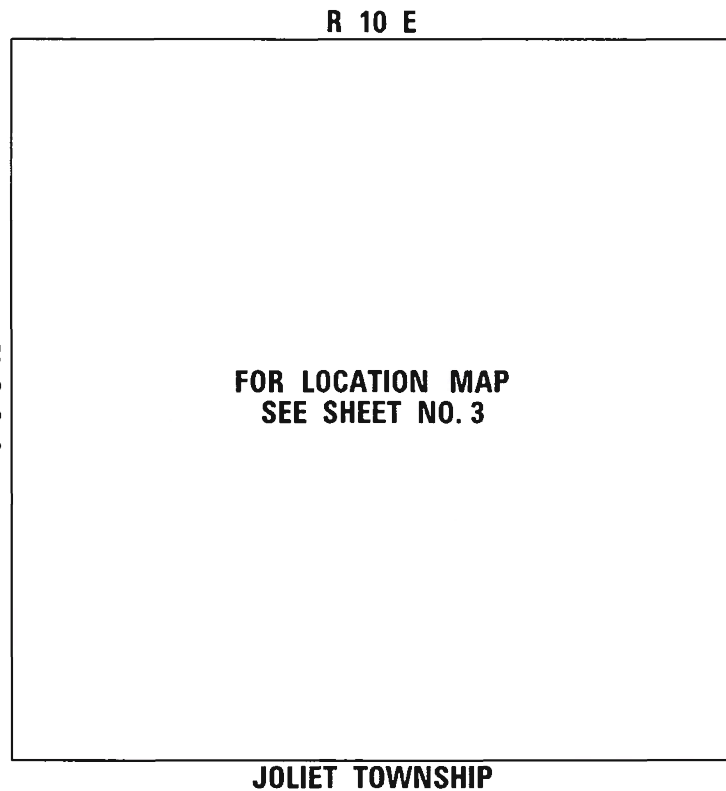
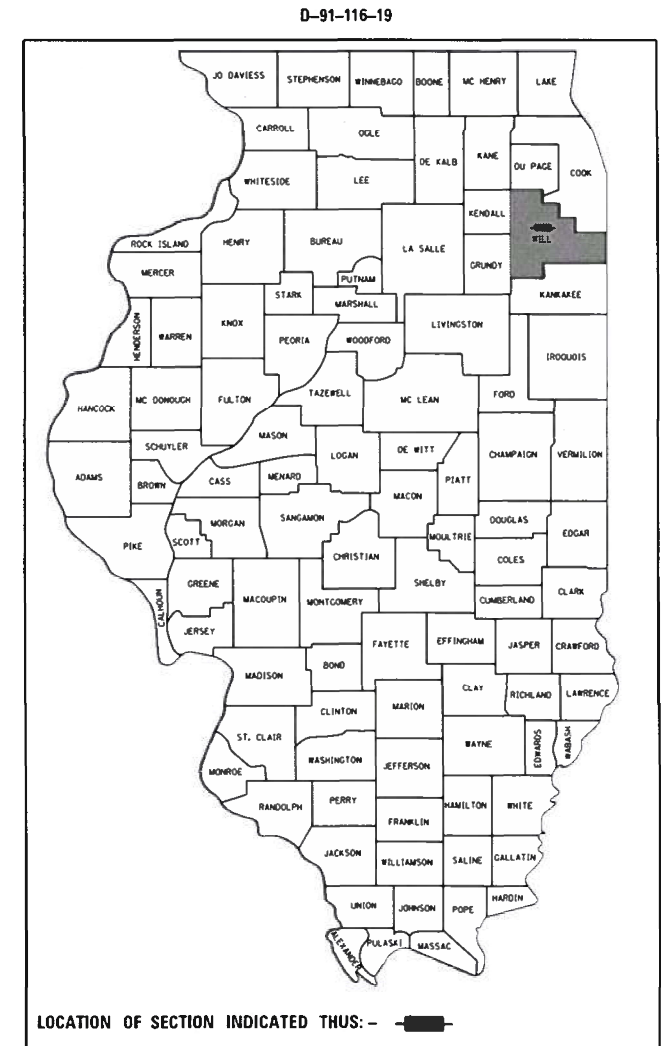


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2018-141-TS&I	WILL	68	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 62H79		

FOR INDEX OF SHEETS, SEE SHEET NO. 2

**PROPOSED
HIGHWAY PLANS**
VARIOUS LOCATIONS IN THE CITY OF JOLIET
CONTRACT A
SECTION: 2018-141-TS&I
PROJECT: HSIP-ACIX (743)
TRAFFIC SIGNAL MODERNIZATION AND
RETROREFLECTIVE TRAFFIC SIGNAL BACKPLATE INSTALLATION
WILL COUNTY
C-91-321-19



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

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

PROJECT ENGINEER: IOVAN PLASCENCIA / KAMIL KOBYLKA
PROJECT MANAGER: LUKASZ POCIECHA
CONTRACT NO. 62H79

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED June 23 2020
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

August 14, 2020
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

August 14, 2020
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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HIGHWAY STANDARDS

STD. NO.	TITLE
000001-07	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-RD OPERATIONS, 2L, 2W MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
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' (4.5m) AWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
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
877001-08	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877002-04	STEEL MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
877011-10	STEEL COMB. MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877012-07	STEEL COMB. MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
878001-10	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION. THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV, 72 HOURS IN ADVANCE OF BEGINNING WORK.

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.

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 FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).

IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF AN ELECTRICAL CONTRACTOR. THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.

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 RESIDENT ENGINEER BEFORE ORDERING MATERIALS.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

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

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE DAMAGE INCURRED. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.

THE HOLE FOR THE EXISTING CONDUIT TO BE ABANDONED THROUGHOUT THIS PROJECT AT ANY EXISTING HANDHOLES WILL BE PLUGGED UPON COMPLETION OF THE TRAFFIC SIGNAL WORK.

PARTIAL PAYMENT AS DESCRIBED IN ARTICLE 109.07(b) OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED FOR ITEMS INCLUDED IN THIS CONTRACT.

LOCATIONS WITH PEDESTRIAN EQUIPMENT HAVE BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THE THE PLANS FOR TRAFFIC SIGNAL MAST ARM/POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO INSURE ADA COMPLIANCE.

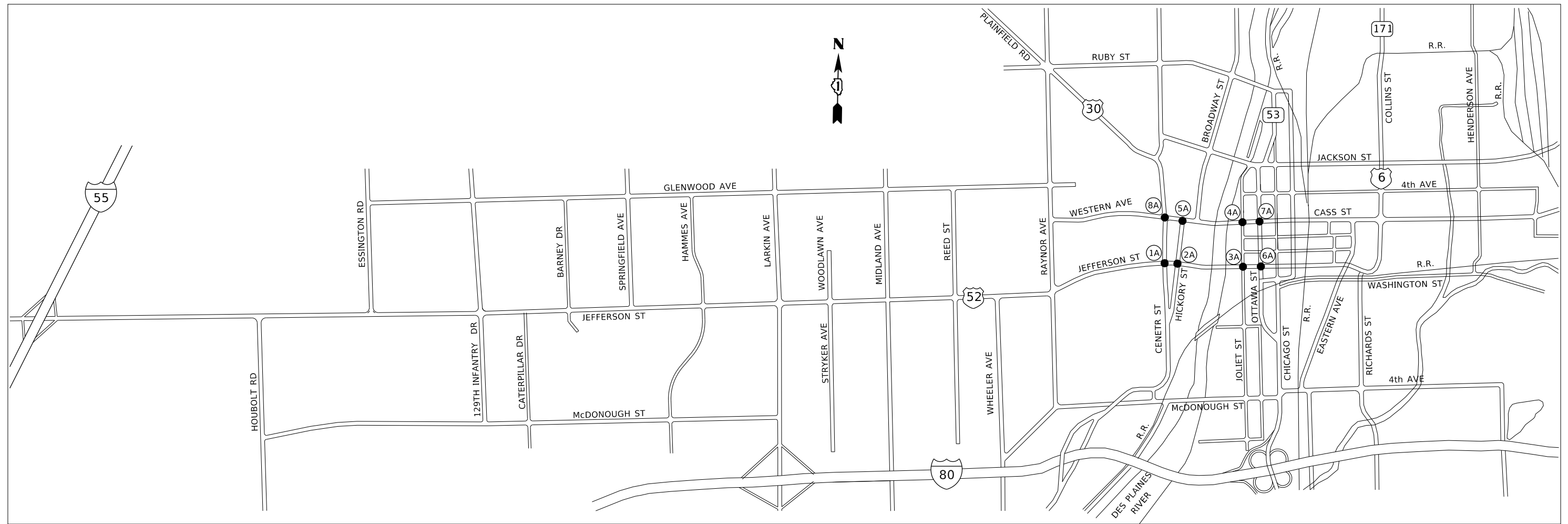
CONTRACTOR SHALL ABANDON EXISTING CABLES IN CONDUIT UNLESS NOTED OTHERWISE ON THE PLANS. ALL ABANDONED CABLES SHALL BE TAGGED AND LABELED "ABANDONED" AT ALL HANDHOLES THEY PASS THROUGH OR TERMINATE IN. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT" AND NO EXTRA COMPENSATION SHALL BE MADE.

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT BORING AND DRILLING THROUGH BEDROCK AND COBBLE DEFINED AS ROCK HEREIN MAY BE REQUIRED. IF BORING AND/OR DRILLING THROUGH ROCK IS REQUIRED, THE CONTRACTOR WILL BE PAID FOR DIRECTIONAL BORING THROUGH ROCK AND DRILLED SHAFT IN ROCK IN ADDITION TO THE ITEMS SHOWN ON THE PLANS. NOMINAL QUANTITIES HAVE BEEN PROVIDED IF AND WHEN BORING AND/OR DRILLING THROUGH ROCK IS REQUIRED. SHOULD COBBLES PREVENT BORING, THE COST FOR PROVIDING SPECIALTY EQUIPMENT (I.E. ROCK BORE MACHINE) AND/OR OPEN TRENCH AND RESTORATION ARE INCLUDED IN THE PAY ITEMS.

REV-SEP

K:\PROJECTS\Projects\2018\DOT Joliet Road\NCDD_Sheets\N1-2_Standards List.dgn

 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5015 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: (773) 714-5900	USER NAME = #USER#	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, HIGHWAY STANDARDS & GENERAL NOTES			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PL. OF SCALE = 1/8" = 1' / in.	DRAWN - EA, AV	REVISED -					VAR	2018-141-TS&I	WILL	68	2
P. LDT DATE = #DATE#	CHECKED - PKG	REVISED -	SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 62H79						
DATE - 6/1/2020	REVISIED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT										



LOCATION NUMBER	TS NO.	INTERSECTION NAME
1A	22526	US RTE 30 (JEFFERSON ST) AT US RTE 30 (CENTER ST)
2A	22527	US RTE 30 EB (JEFFERSON ST) AT HICKORY ST
3A	22528	US RTE 30 EB (JEFFERSON ST) AT JOLIET ST
4A	22534	US RTE 30 WB (CASS ST) AT JOLIET ST
5A	22533	US RTE 30 WB (WESTERN AVE) AT HICKORY ST
6A	22529	US RTE 30 EB (JEFFERSON ST) AT US RTE 6 - IL RTE 53 SB (OTTAWA ST)
7A	22353	US RTE 6 - US RTE 30 WB (CASS ST) AT IL RTE 53 SB (OTTAWA ST)
8A	22532	US RTE 30 (WESTERN AVE) AT US RTE 30 (CENTER ST)

FILE NAME =	USER NAME = plascencia	DESIGNED - IP	REVISED -
S:\WP\Design\Iovan\03.InHouse.TrafficLet	N:\Phase2\0111619-sht-ts.dgn	DRAWN - IP	REVISED -
	PLOT SCALE = 100.0000' / 1".	CHECKED - LP	REVISED -
	PLOT DATE = 6/22/2020	DATE - 6/1/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION MAP

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	3
CONTRACT NO. 62H79				
ILLINOIS FED. AID PROJECT				

LOCATION INDEX			
	LOCATION NUMBER	TS NO.	INTERSECTION NAME
TRAFFIC SIGNAL MODERNIZATION	1A	22526	US RTE 30 (JEFFERSON ST) AT US RTE 30 (CENTER ST)
	2A	22527	US RTE 30 EB (JEFFERSON ST) AT HICKORY ST
	3A	22528	US RTE 30 EB (JEFFERSON ST) AT JOLIET ST
	4A	22534	US RTE 30 WB (CASS ST) AT JOLIET ST
	5A	22533	US RTE 30 WB (WESTERN AVE) AT HICKORY ST
LIGHTING	2A	22527	US RTE 30 EB (JEFFERSON ST) AT HICKORY ST
	3A	22528	US RTE 30 EB (JEFFERSON ST) AT JOLIET ST
	4A	22534	US RTE 30 WB (CASS ST) AT JOLIET ST
	5A	22533	US RTE 30 WB (WESTERN AVE) AT HICKORY ST
RETROREFLECTIVE BACKPLATES	6A	22529	US RTE 30 EB (JEFFERSON ST) AT US RTE 6 - IL RTE 53 SB (OTTAWA ST)
	7A	22353	US RTE 6 - US RTE 30 WB (CASS ST) AT IL RTE 53 SB (OTTAWA ST)
	8A	22532	US RTE 30 (WESTERN AVE) AT US RTE 30 (CENTER ST)
EVP AND LED SIGNS	1A	22526	US RTE 30 (JEFFERSON ST) AT US RTE 30 (CENTER ST)
	2A	22527	US RTE 30 EB (JEFFERSON ST) AT HICKORY ST
	3A	22528	US RTE 30 EB (JEFFERSON ST) AT JOLIET ST
	4A	22534	US RTE 30 WB (CASS ST) AT JOLIET ST
	5A	22533	US RTE 30 WB (WESTERN AVE) AT HICKORY ST

FILE NAME =	USER NAME = plascencia	DESIGNED - IP	REVISED -
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	PLOT SCALE = 100.0000' / in.	CHECKED - LP	REVISED -
	PLOT DATE = 6/22/2020	DATE - 6/1/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
LOCATION INDEX			
SCALE: NONE	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	4
			CONTRACT NO. 62H79	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE											
				90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 10% STATE	100% JOLIET					
				1A	2A, 3A 4A, 5A	2A, 3A 4A, 5A	6A, 7A	8A		1A, 2A 3A, 4A 5A					
				TRAFFIC SIGNAL MODERNIZATION	LIGHTING	RETROREFLECTIVE BACKPLATES	INTERCONNECT	EVP AND LED SIGNS							
				0021											
20200200	ROCK EXCAVATION	CU YD	23	6	17										
51604000	DRILLED SHAFT IN ROCK	CU YD	34.5	7	27.5										
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	106	24	82										
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	0.8	3.2										
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	0.2	0.8										
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0.2	0.8										
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	5	1	4										
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	2.4	9.6										
67100100	MOBILIZATION	L SUM	1	0.2	0.8										
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	0.2	0.8										
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.2	0.8										
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.2	0.8										
															REV-SEP

* SPECIALTY ITEM

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	PLOT SCALE = 100.0000' / 1in.	CHECKED - LP	REVISED -
	PLOT DATE = 6/22/2020	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES (SHEET 1 OF 8)			
SCALE: NONE	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	5
			CONTRACT NO. 62H79	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE											
				90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 10% STATE	100% JOLIET					
				1A	2A, 3A 4A, 5A	2A, 3A 4A, 5A	6A, 7A	8A		1A, 2A 3A, 4A 5A					
				TRAFFIC SIGNAL MODERNIZATION	LIGHTING	RETROREFLECTIVE BACKPLATES	INTERCONNECT	EVP AND LED SIGNS							
				0021											
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.2	0.8										
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,444	352	383			709							
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	246	98	148										
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1,361	292	1,069										
81400100	HANDHOLE	EACH	10	3	6			1							
81400300	DOUBLE HANDHOLE	EACH	7	2	5										
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1,960			1,960									
81800230	AERIAL CABLE, 2-1/C NO. 6 WITH MESSENGER WIRE	FOOT	533			533									
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	6		2			4							
86400100	TRANSCEIVER - FIBER OPTIC	EACH	5	1	4										
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3,610					3,610							
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	5,047	1,325	3,722										

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	PLOT DATE = 6/22/2020	DATE - 6/1/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
(SHEET 2 OF 8)**

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	6
			CONTRACT NO. 62H79	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE											
				90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 10% STATE	100% JOLIET					
				1A	2A, 3A 4A, 5A	2A, 3A 4A, 5A	6A, 7A	8A		1A, 2A 3A, 4A 5A					
				TRAFFIC SIGNAL MODERNIZATION	LIGHTING	RETROREFLECTIVE BACKPLATES	INTERCONNECT	EVP AND LED SIGNS							
				0021											
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	6,902	2,000	4,902										
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	6,577	1,275	5,302										
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	507		507										
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	400	400											
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	833	325	508										
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	3,062	920	2,142										
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	8	2	6										
87700140	STEEL MAST ARM ASSEMBLY AND POLE, 20 FT.	EACH	1	1											
87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1	1											
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	3	1	2										
87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1		1										
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1		1										

FILE NAME =	USER NAME = plascencia	DESIGNED - IP	REVISED -
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	PLOT SCALE = 100.0000' / 1in.	CHECKED - LP	REVISED -
	PLOT DATE = 6/22/2020	DATE - 6/1/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
(SHEET 3 OF 8)**

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	7
			CONTRACT NO. 62H79	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE											
				90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 10% STATE	100% JOLIET					
				1A	2A, 3A 4A, 5A	2A, 3A 4A, 5A	6A, 7A	8A		1A, 2A 3A, 4A 5A					
				TRAFFIC SIGNAL MODERNIZATION	LIGHTING	RETROREFLECTIVE BACKPLATES	INTERCONNECT	EVP AND LED SIGNS							
				0021											
87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1		1										
87702830	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 20 FT.	EACH	1		1										
87702860	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1		1										
87702890	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	1		1										
87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	2		2										
87702990	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1		1										
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	52	12	40										
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	20	4	16										
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	137.5	30	107.5										
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28		28										
87900200	DRILL EXISTING HANDHOLE	EACH	20		13				7						
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	31	6	25										

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	PLOT SCALE = 100.0000' / 1in.	CHECKED - LP	REVISED -
	PLOT DATE = 6/22/2020	DATE - 6/1/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
(SHEET 4 OF 8)**

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	8
			CONTRACT NO. 62H79	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE											
				90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 10% STATE	100% JOLIET					
				1A	2A, 3A 4A, 5A	2A, 3A 4A, 5A	6A, 7A	8A		1A, 2A 3A, 4A 5A					
				TRAFFIC SIGNAL MODERNIZATION	LIGHTING	RETROREFLECTIVE BACKPLATES	INTERCONNECT	EVP AND LED SIGNS							
				0021											
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	13	4	9										
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2		2										
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2		2										
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	42	12	30										
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	39	6	27		4	2							
88500100	INDUCTIVE LOOP DETECTOR	EACH	3	3											
88600100	DETECTOR LOOP, TYPE I	FOOT	280	280											
88700200	LIGHT DETECTOR	EACH	10									10			
88700300	LIGHT DETECTOR AMPLIFIER	EACH	5									5			
88800100	PEDESTRIAN PUSH-BUTTON	EACH	40	10	30										
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	3	1	2										
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7,618								7,618				

FILE NAME =	USER NAME = plascencia	DESIGNED - IP	REVISED -
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	PLOT SCALE = 100.0000' / 1in.	CHECKED - LP	REVISED -
	PLOT DATE = 6/22/2020	DATE - 6/1/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
(SHEET 5 OF 8)**

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	9
			CONTRACT NO. 62H79	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE											
				90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 10% STATE	100% JOLIET					
				1A	2A, 3A 4A, 5A	2A, 3A 4A, 5A	6A, 7A	8A		1A, 2A 3A, 4A 5A					
				TRAFFIC SIGNAL MODERNIZATION	LIGHTING	RETROREFLECTIVE BACKPLATES	INTERCONNECT	EVP AND LED SIGNS							
				0021											
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	500						500						
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	8	1	4		2	1							
89502380	REMOVE EXISTING HANDHOLE	EACH	16	9	7										
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	4	2	2										
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	32	7	25										
X0322951	CABLE SPLICE SPECIAL	EACH	4			4									
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1,489								1,489				
X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	13								13				
X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	5	1	4										
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	5	1	4										
X1400238	LUMINAIRE, LED, SPECIAL	EACH	10			10									
X1400360	DIRECTIONAL BORING THROUGH ROCK	FOOT	2,455	595	1,290				570						

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	PLOT DATE = 6/22/2020	DATE - 6/1/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
(SHEET 6 OF 8)**

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	10
			CONTRACT NO. 62H79	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE											
				90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 10% STATE	100% JOLIET					
				1A	2A, 3A 4A, 5A	2A, 3A 4A, 5A	6A, 7A	8A		1A, 2A 3A, 4A 5A					
				TRAFFIC SIGNAL MODERNIZATION	LIGHTING	RETROREFLECTIVE BACKPLATES	INTERCONNECT	EVP AND LED SIGNS							
				0021											
X1400367	PEDESTRIAN SIGNAL POST, 10 FT	EACH	8	4	4										
X1400388	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	12	1	11										
X8250091	COMBINATION LIGHTING CONTROLLER	EACH	4			4									
X8620200	UNINTERRUPTABLE POWER SUPPLY,SPECIAL	EACH	5	1	4										
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	3,610						3,610						
X8772115	TEMPORARY MAST ARM, ALUMINUM, 15FT	EACH	4			4									
X8780010	CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	32	16	16										
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	154.2	51.4	102.8										
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	10			10									
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12			12									
Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	5						5						
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	3	1	2										

FILE NAME =	USER NAME = plascencia	DESIGNED - IP	REVISED -
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	PLOT SCALE = 100.0000' / 1in.	CHECKED - LP	REVISED -
	PLOT DATE = 6/22/2020	DATE - 6/1/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
(SHEET 7 OF 8)**

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	11
			CONTRACT NO. 62H79	
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

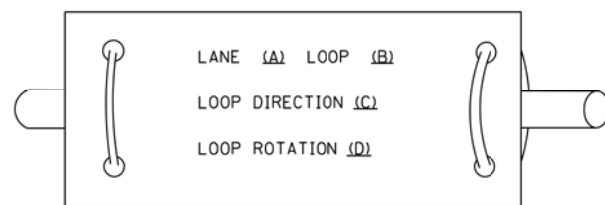
(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM	S	SP	FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM	I	IP	GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM		R			
SIGNAL HEAD			RELOCATE ITEM		RL			
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM		A			
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF			
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF			
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF			
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

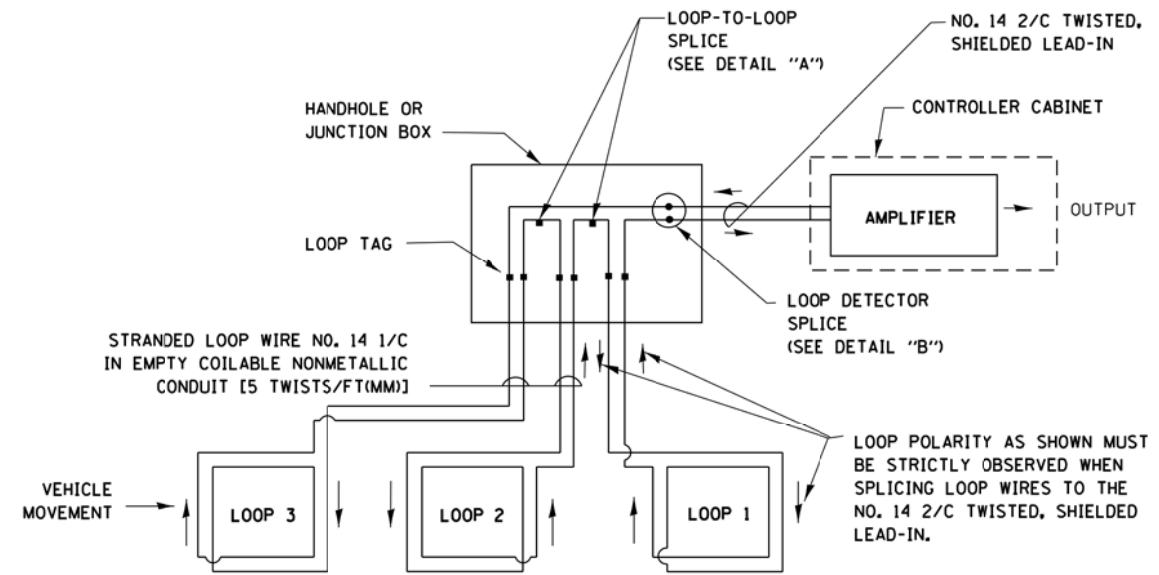
LOOP DETECTOR NOTES

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

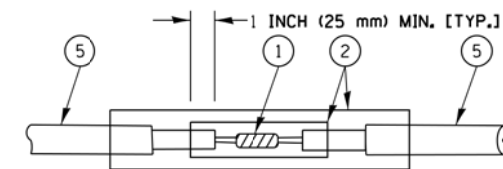


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

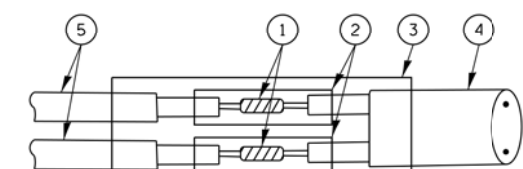


DETECTOR LOOP WIRING SCHEMATIC

- 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.

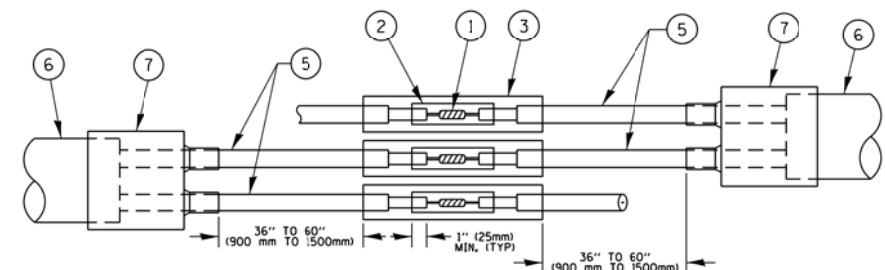


DETAIL "A"
LOOP-TO-LOOP SPLICE

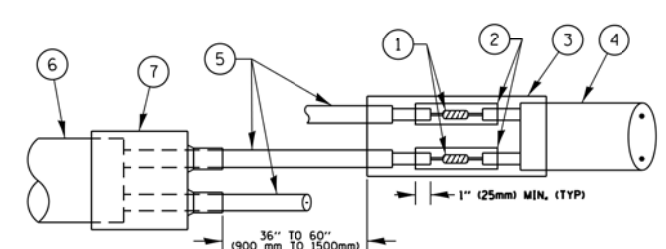


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



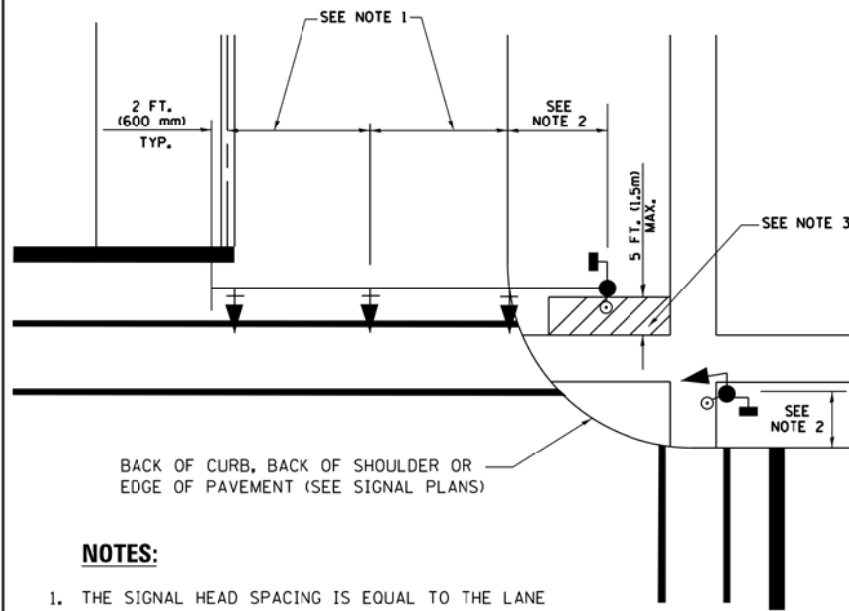
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PRE-FORMED LOOP

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 LENGTH 6" (150 mm), UNDERWATER GRADE.
- 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

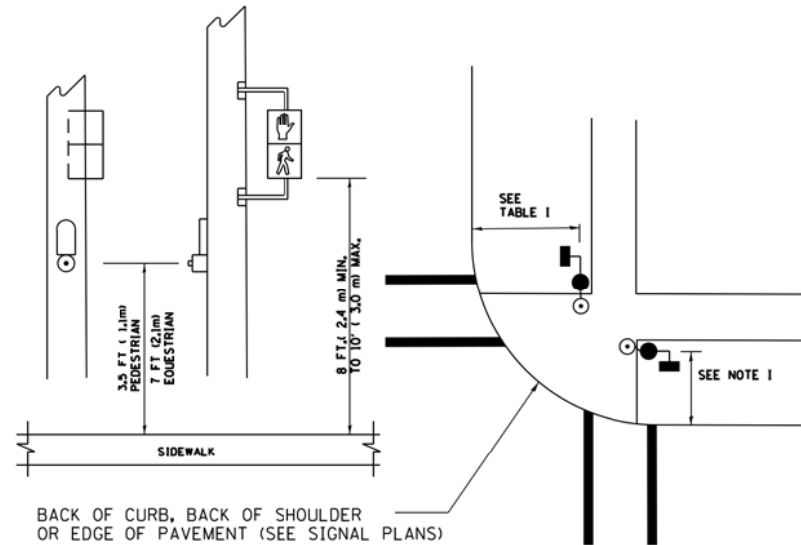
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. 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."

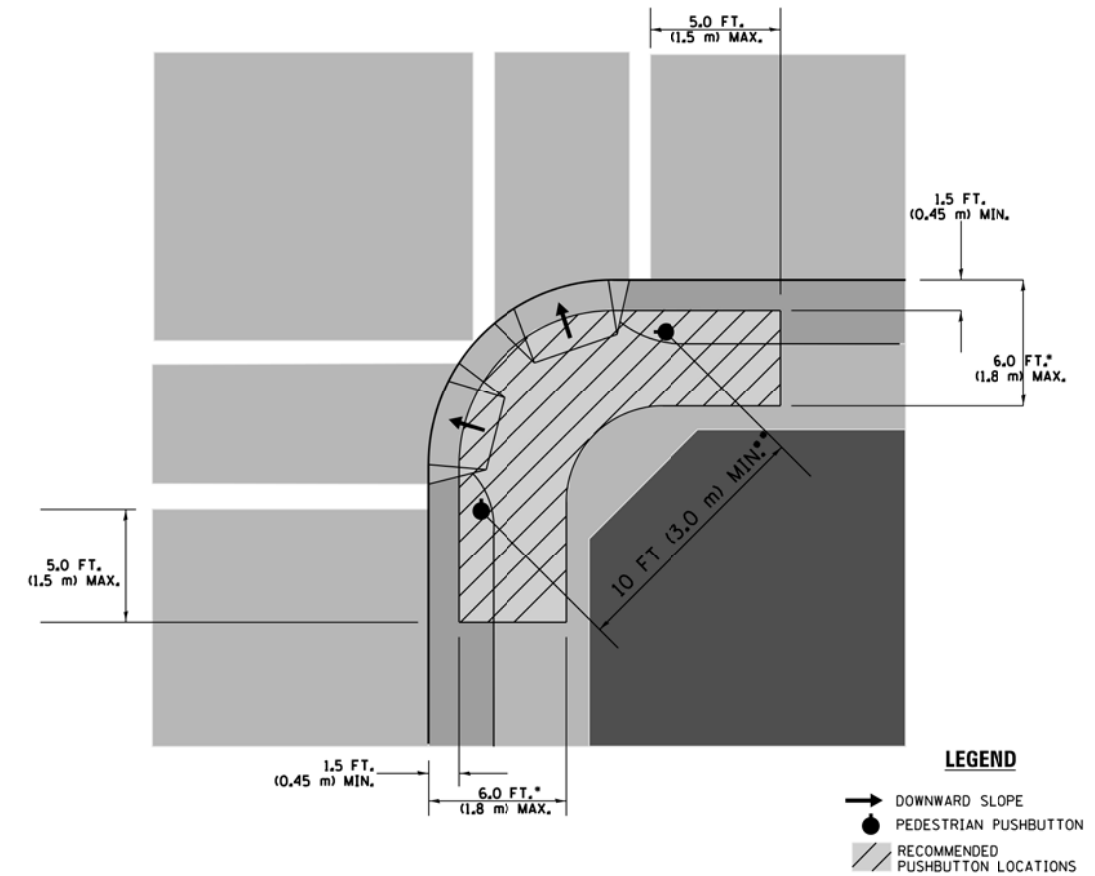
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



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."

RECOMMENDED PUSHBUTTON LOCATIONS



- 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:

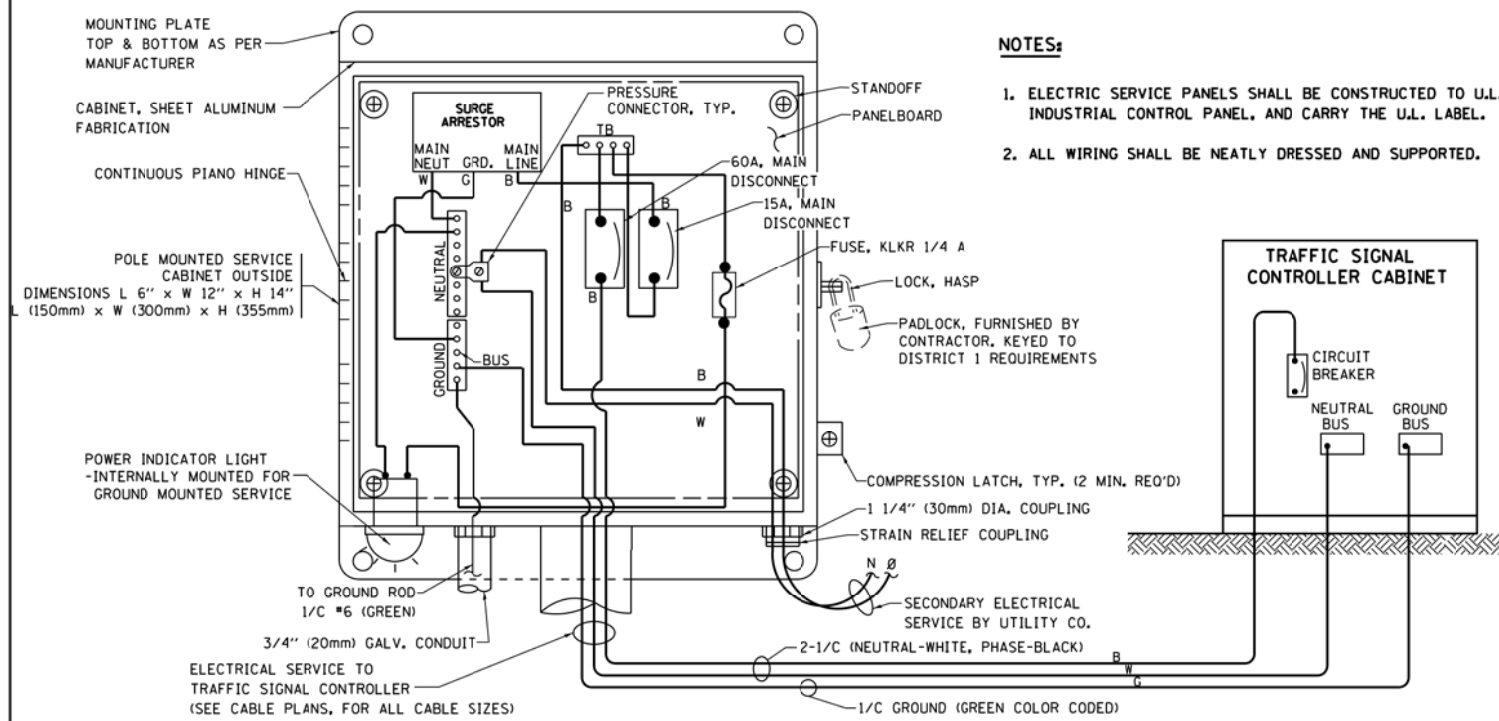
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM 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.
5. 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

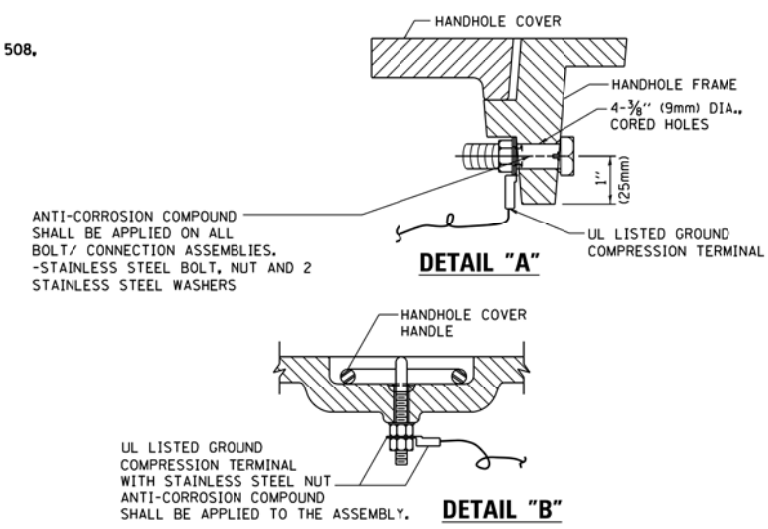
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

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 TO THE 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.

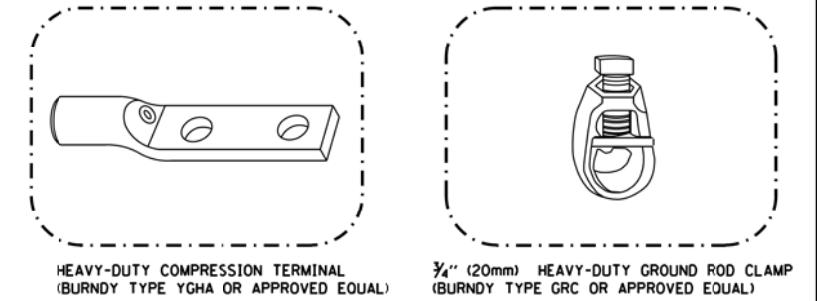
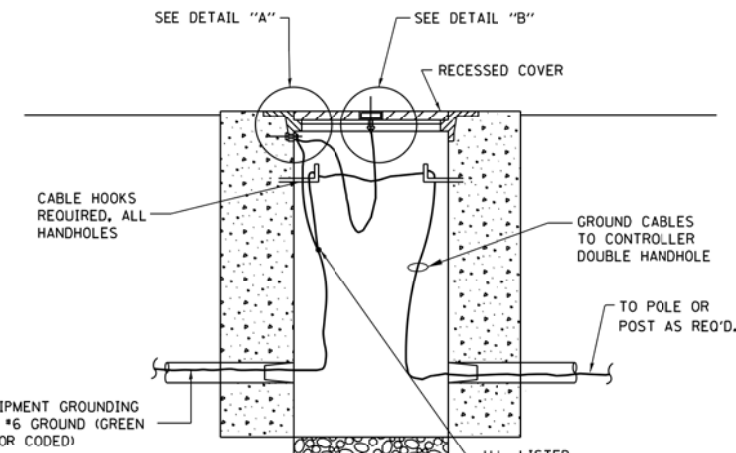


**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)**

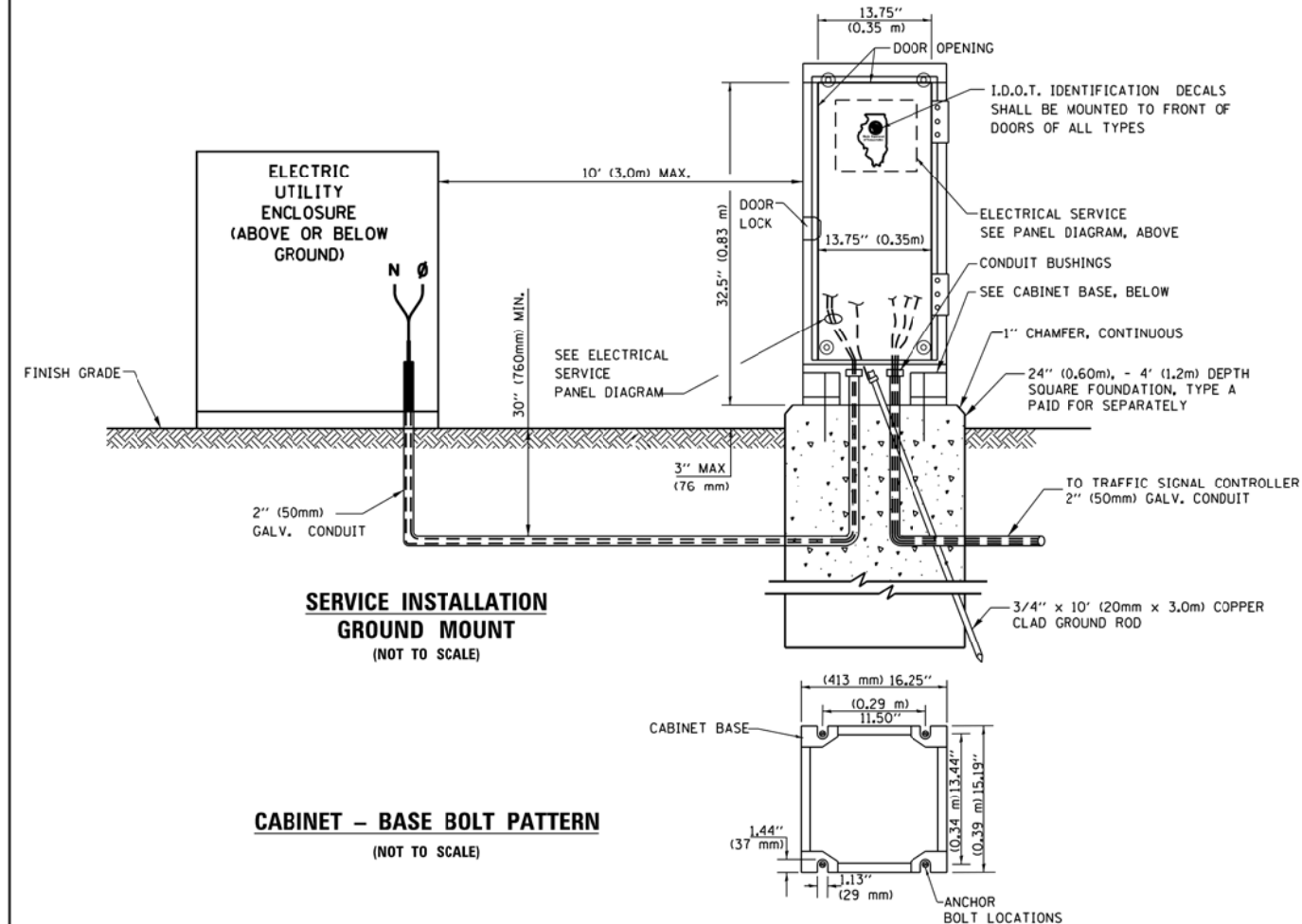
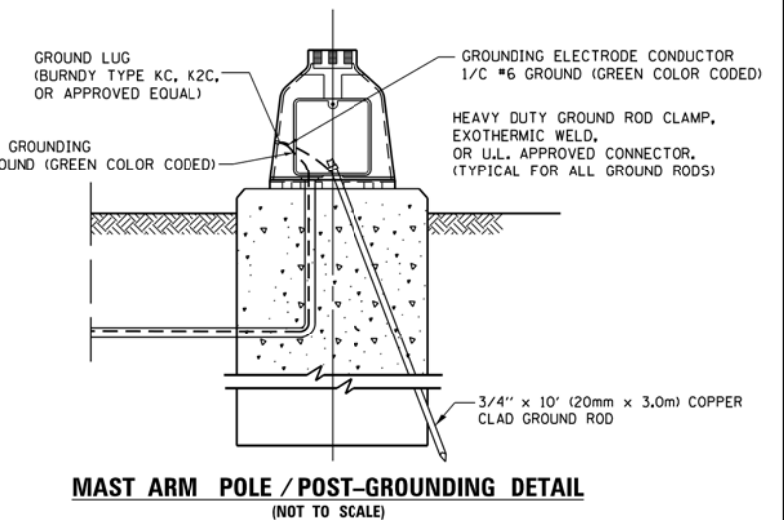
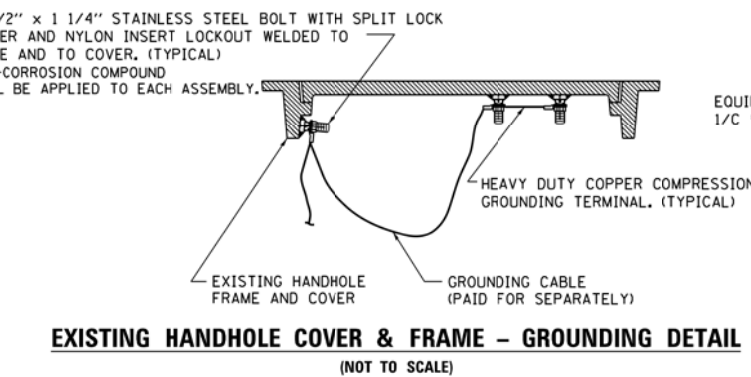


NOTES:
GROUNDING SYSTEM

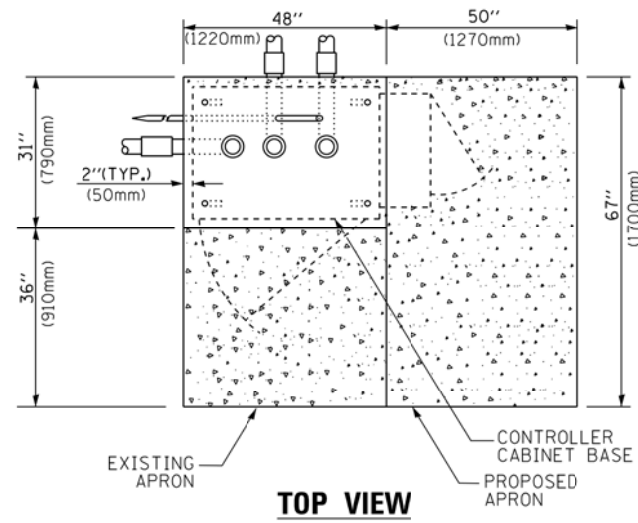
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



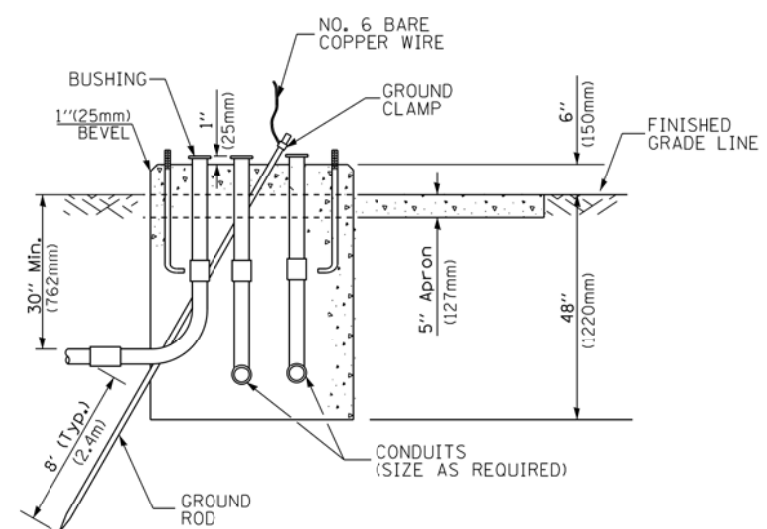
- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, U.L. APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



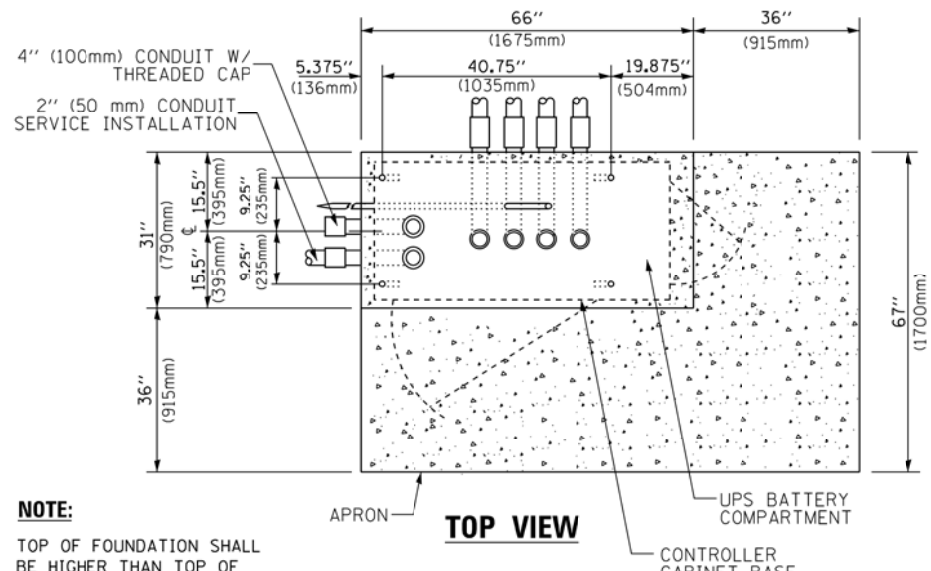
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TOP VIEW

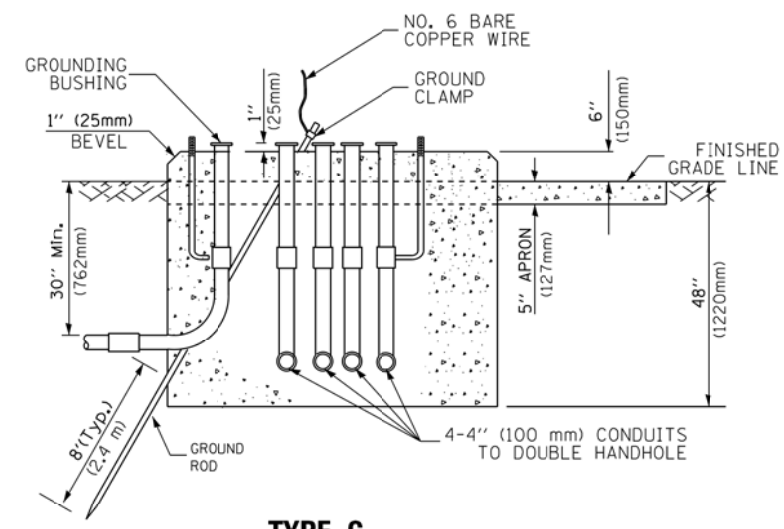


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

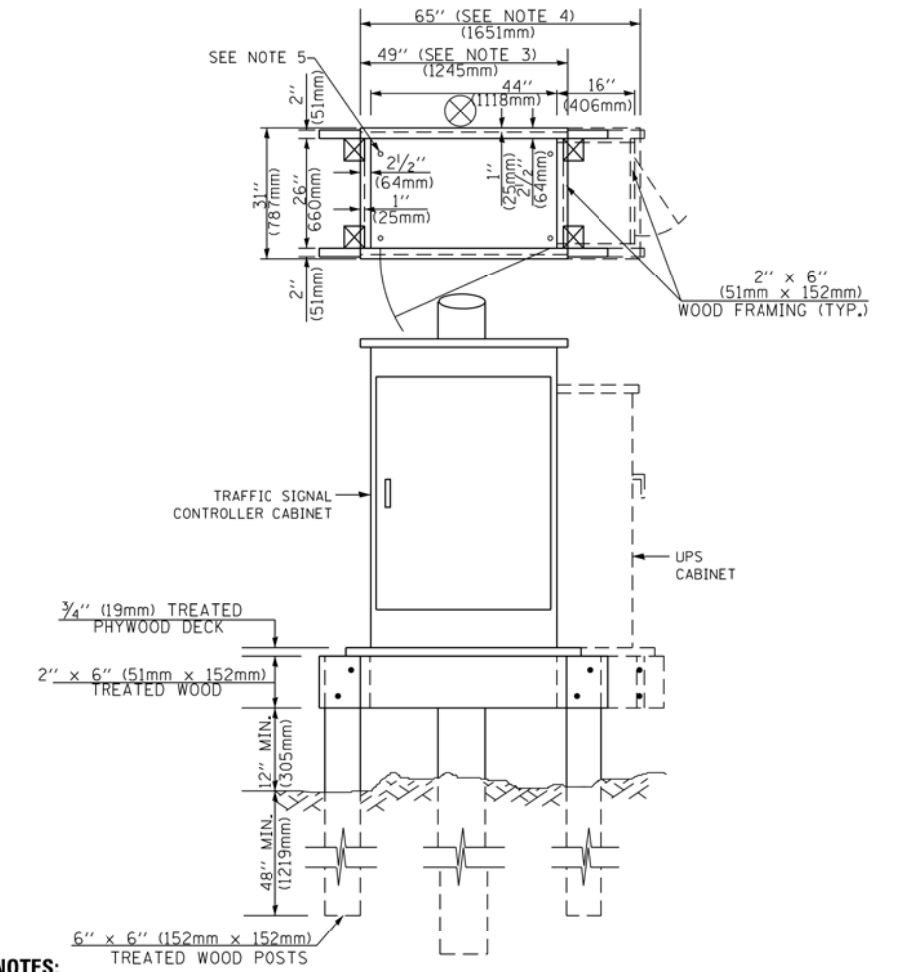


TOP VIEW

NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

- 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.
- 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.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 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.
- 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

CABLE SLACK

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

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)

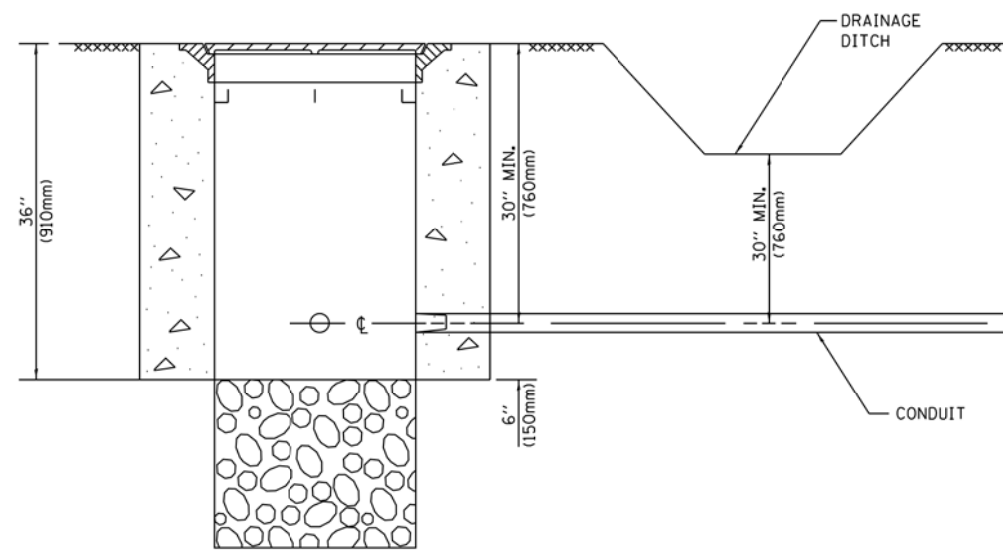
DEPTH OF FOUNDATION

MAST 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 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	24" (600mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
	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 (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.
- Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
- For mast arm assemblies with dual arms refer to state standard 878001..

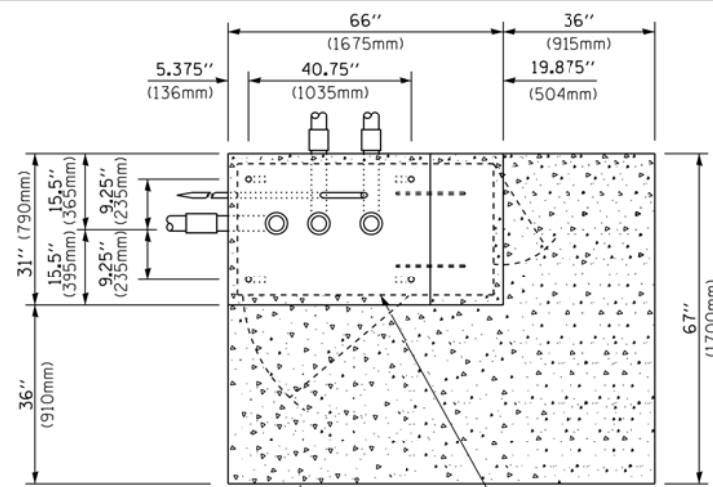
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



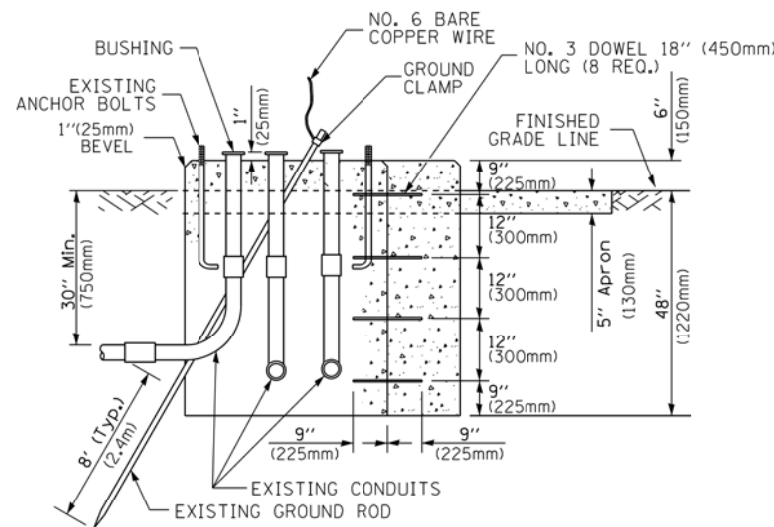
NOTES:

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)



TOP VIEW
(NOT TO SCALE)

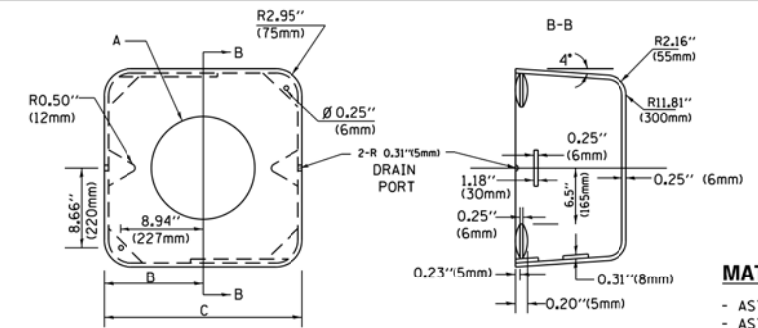


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	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 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.



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

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

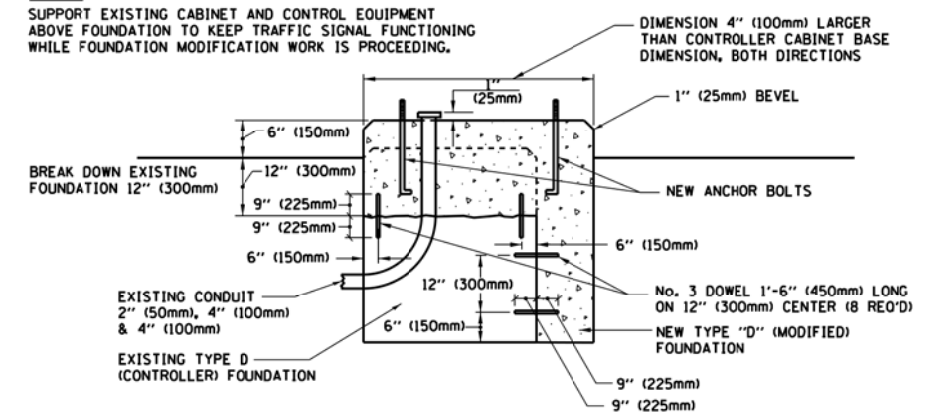
SHROUD

NOTES:

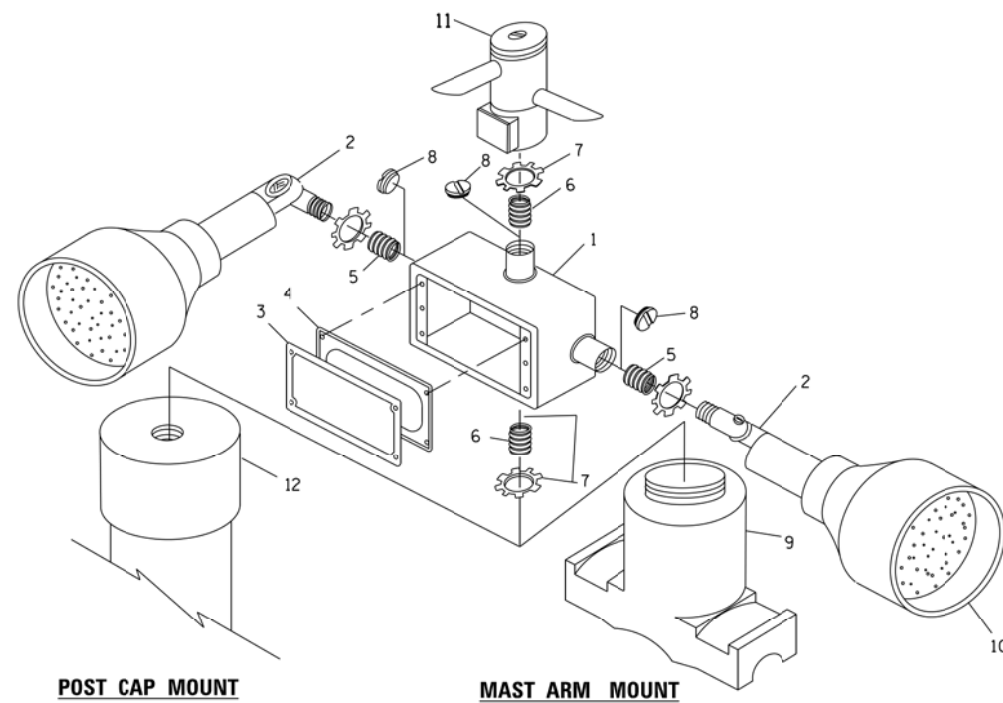
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

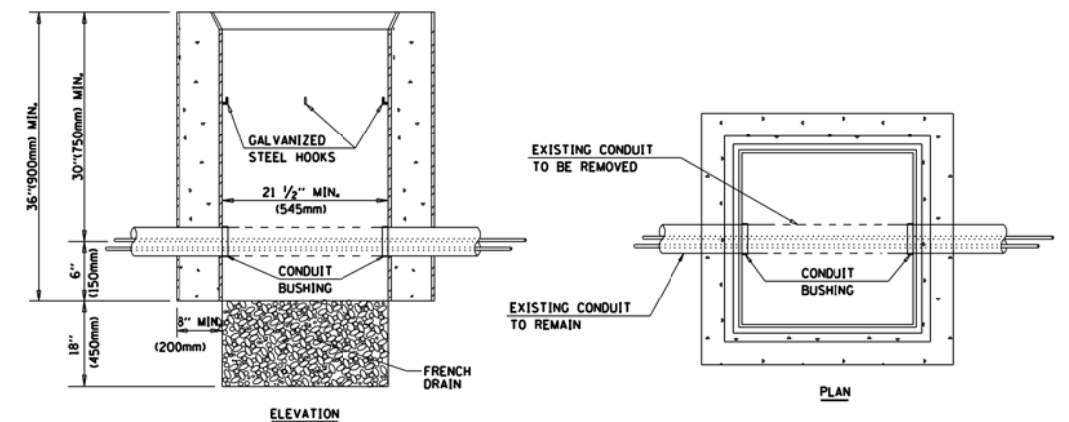
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



POST CAP MOUNT **MAST ARM MOUNT**
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



NOTES:

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

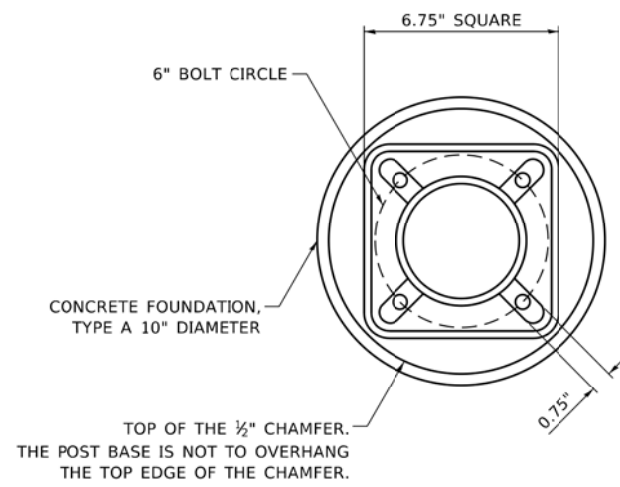
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

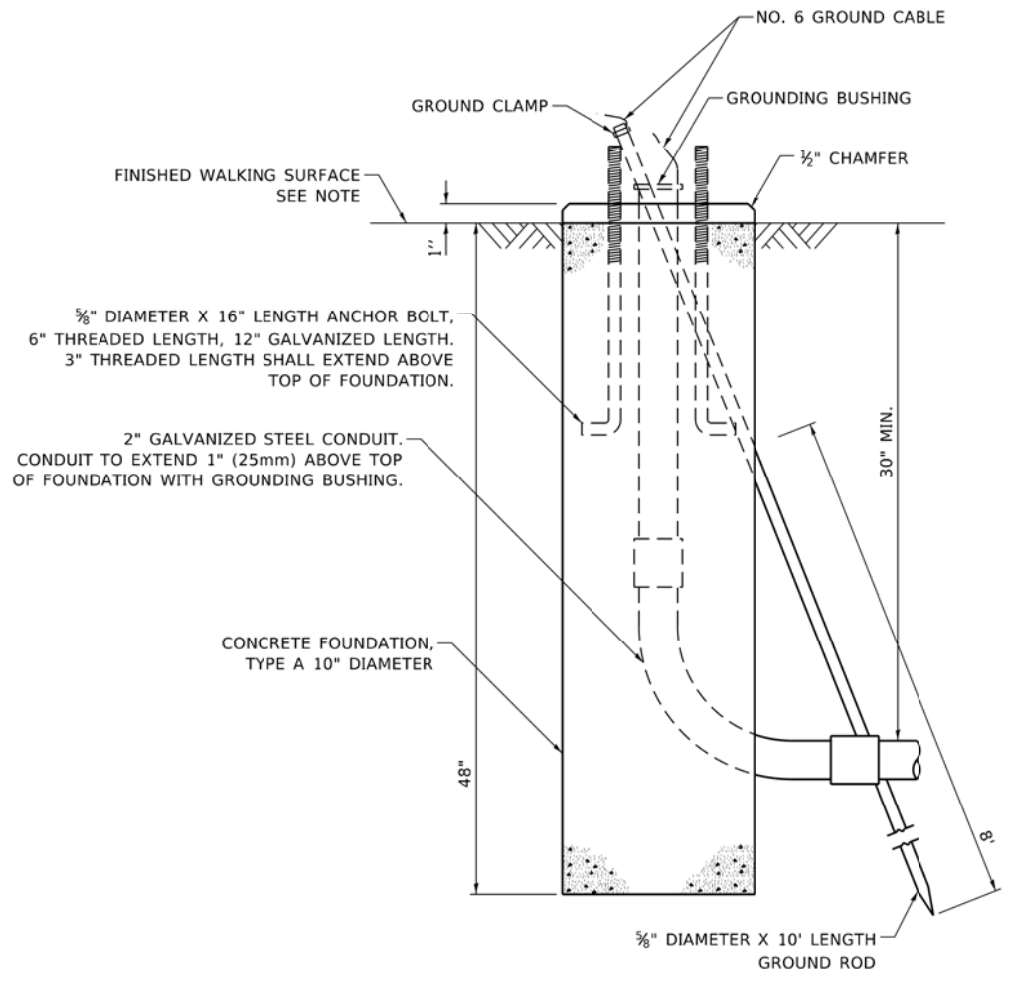
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TS-05		CONTRACT NO. 62H79		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

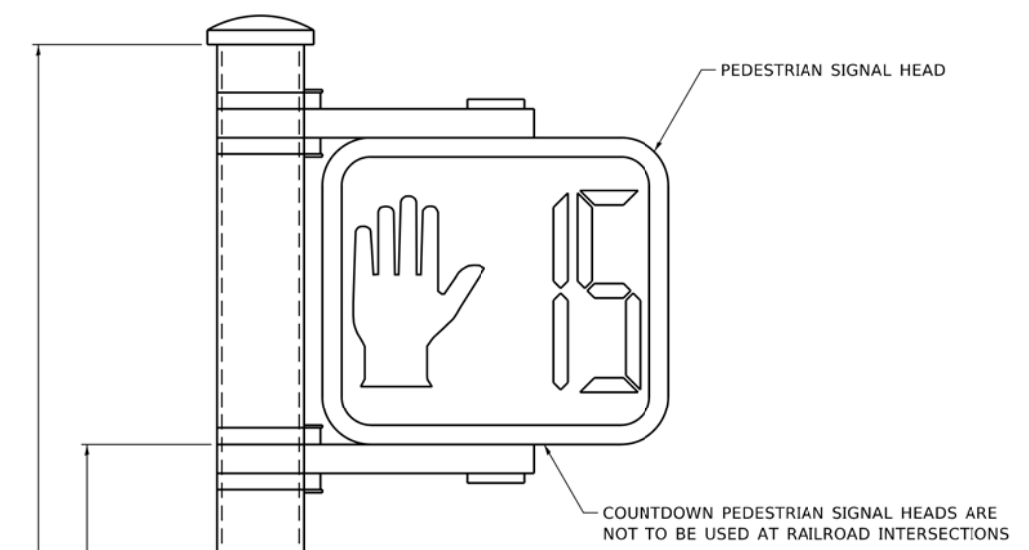


BOLT PATTERN

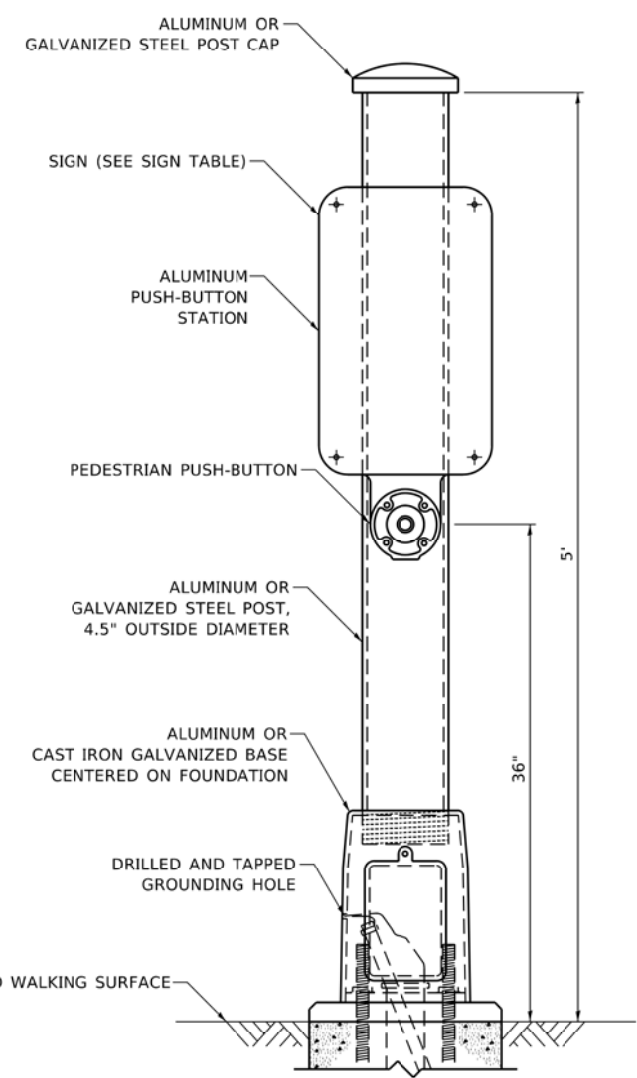
NOTE:
 1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



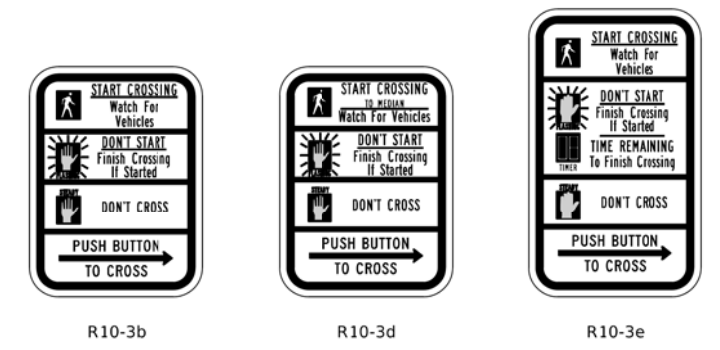
**CONCRETE FOUNDATION,
TYPE A 10-INCH DIAMETER**



PEDESTRIAN SIGNAL POST, 10 FT.



PEDESTRIAN SIGNAL POST, 5 FT.



SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

NOTES:
 1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
 2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
 3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

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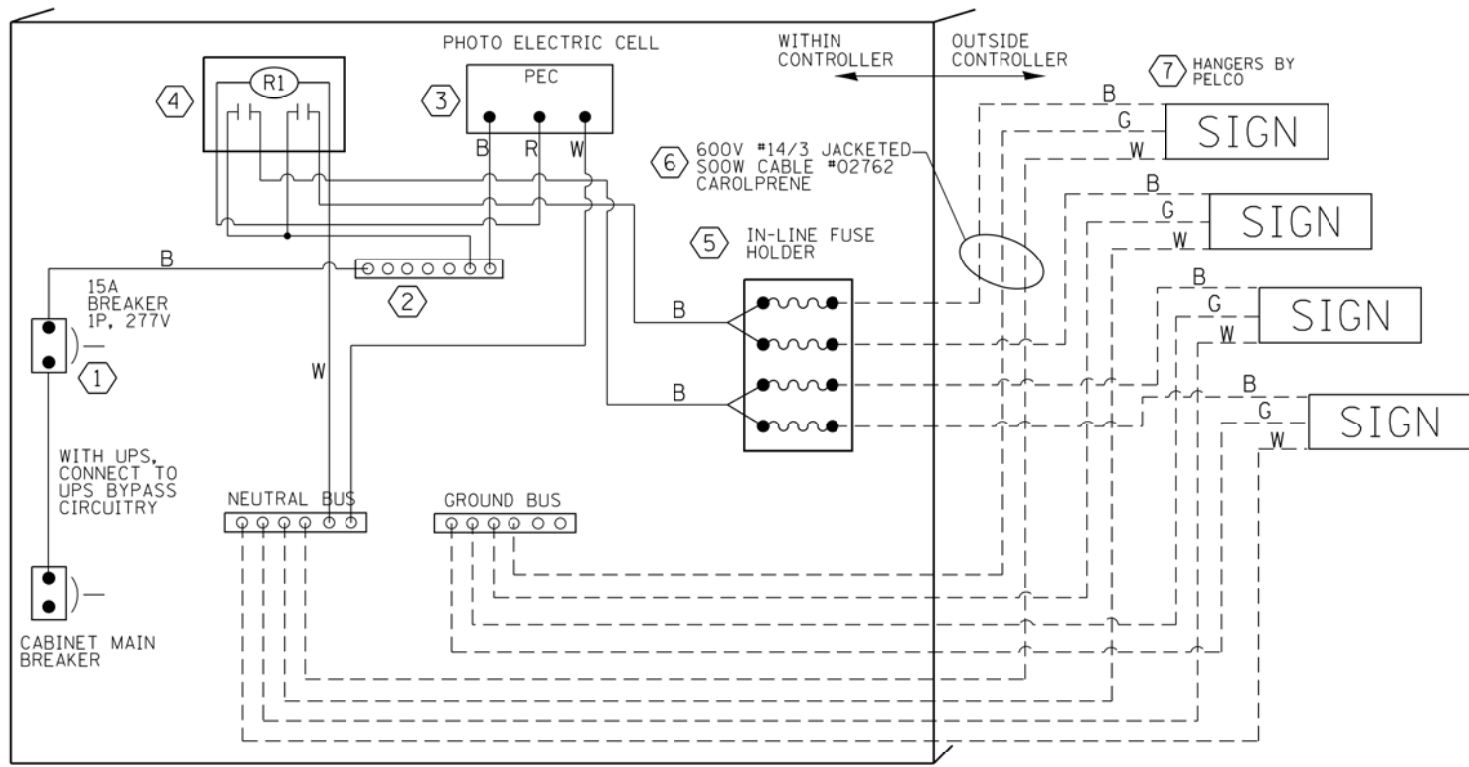
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

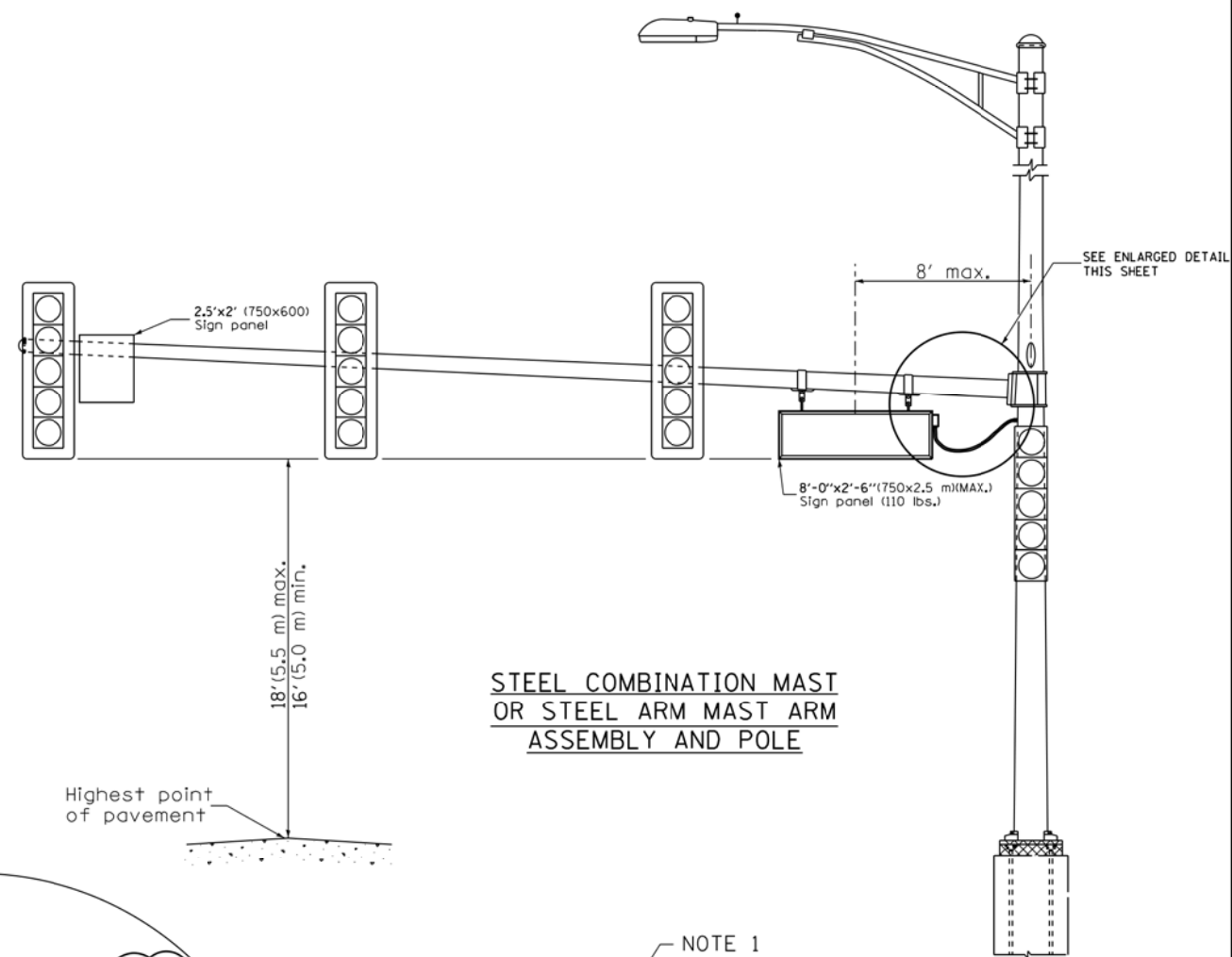
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TS-05		CONTRACT NO. 62H79		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



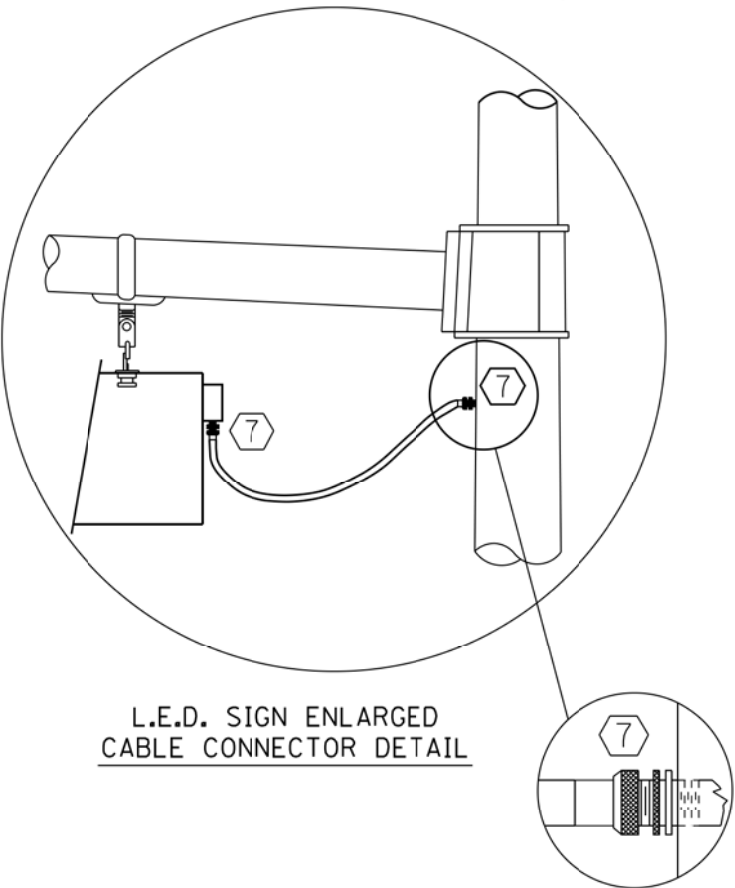
LED SIGN WIRING DETAIL



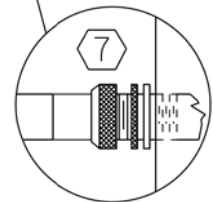
STEEL COMBINATION MAST OR STEEL ARM MAST ARM ASSEMBLY AND POLE

DESCRIPTION	MANUFACTURER	MODEL	NOTES
① CIRCUIT BREAKER		15 AMPERE	Molded case, Thermal Mag. min. R.I. of 14K R.M.S. symmetrical ampere of 277V.
② TERMINAL BLOCK	MARATHON	1502 DJSV	
③ PHOTO ELECTRIC CONTROL	FISHER PIERCE	B124-1.5-07762	
④ CONTROL RELAY	SQUARE D	8501X020V02	BOLT ON W/SCREW TERMINAL
⑤ INLINE FUSE HOLDER WITH 5 AMP FUSE	BUSSMAN	S-8000 BK/S-8-3-4-R	
⑥ ELECTRIC CABLE, NO. 14, 3/C (BLACK, WHITE, GREEN)	CAROLPRENE/SOOW	02762	
⑦ SIGN MOUNTING HARDWARE	PELCO	SE-5015	S.S. HARDWARE

BILL OF MATERIALS



L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL



L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL

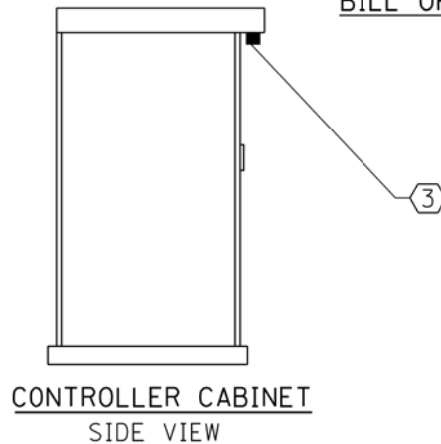


LED ILLUMINATED SIGN PANEL

8'0 x 2'6" (750 mm x 2.5 mm)(MAX)
C or D FONT

NOTES:

- SIGNS SHALL BE DUAL SIDED. FRONT AND BACK OF SIGN WILL BE THE SAME.
- SIGNS SHALL NOT BE ENERGIZED WHEN TRAFFIC SIGNALS ARE POWERED BY THE UPS. THE SIGNS SHALL BE CONNECTED TO THE UPS BYPASS CIRCUITRY.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
- ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12AWG STRANDED UNLESS OTHERWISE INDICATED.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.



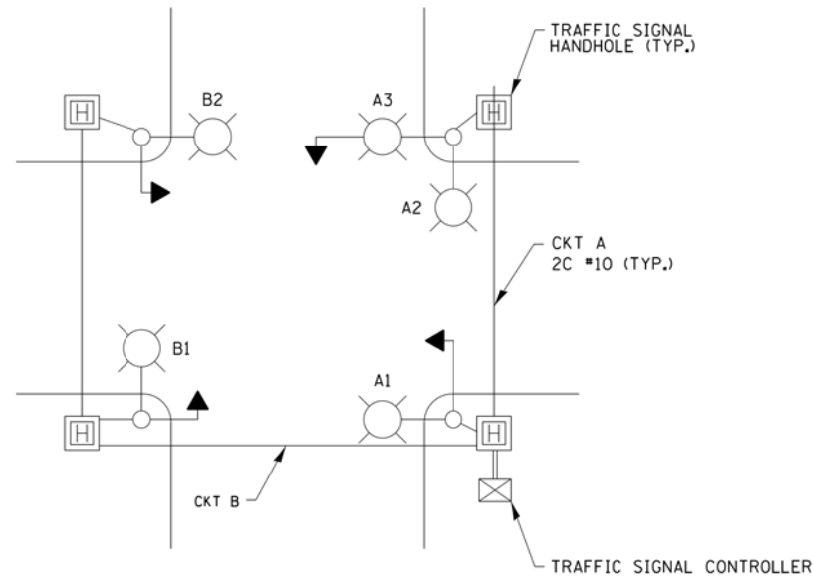
CONTROLLER CABINET SIDE VIEW

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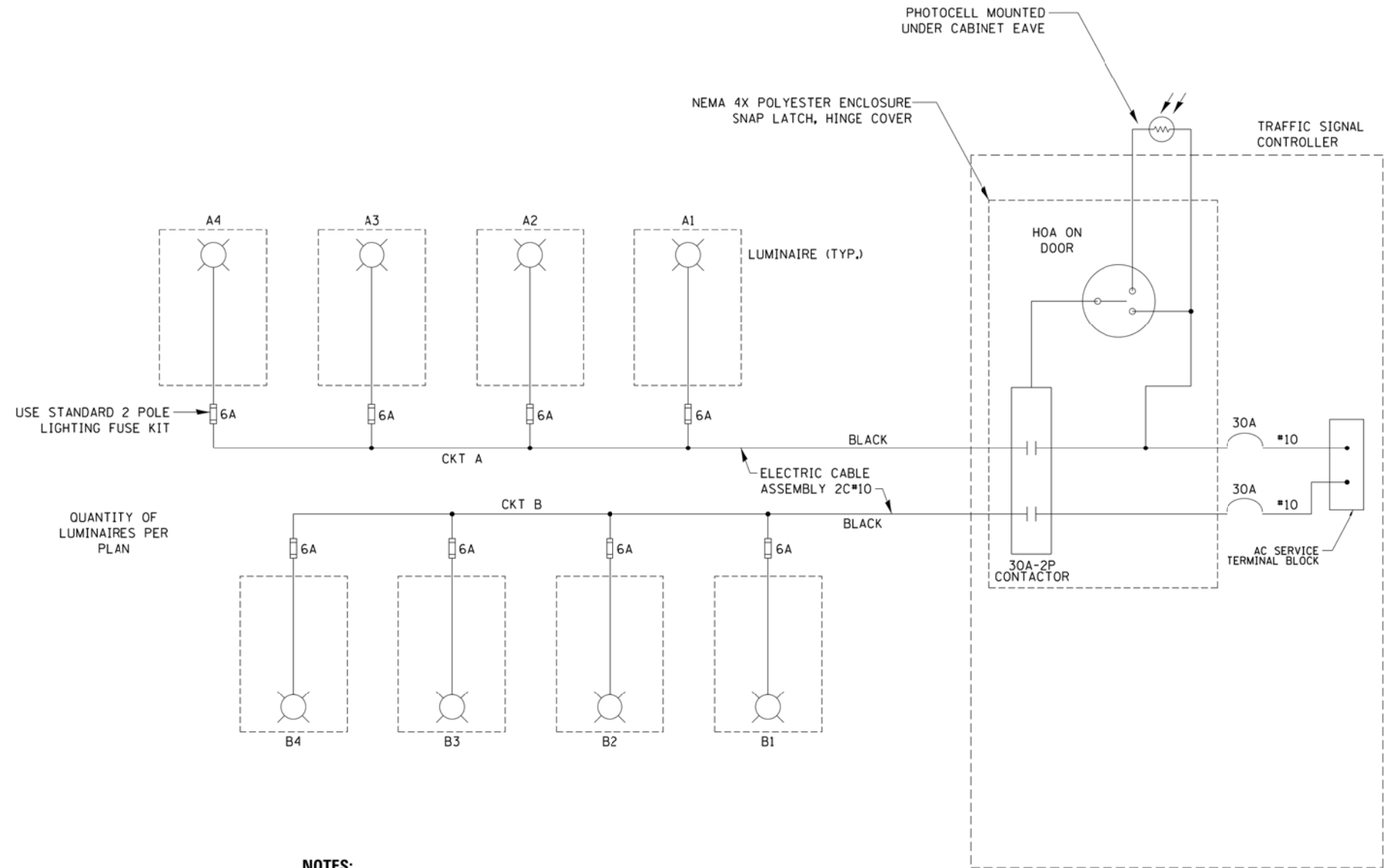
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LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM			
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.

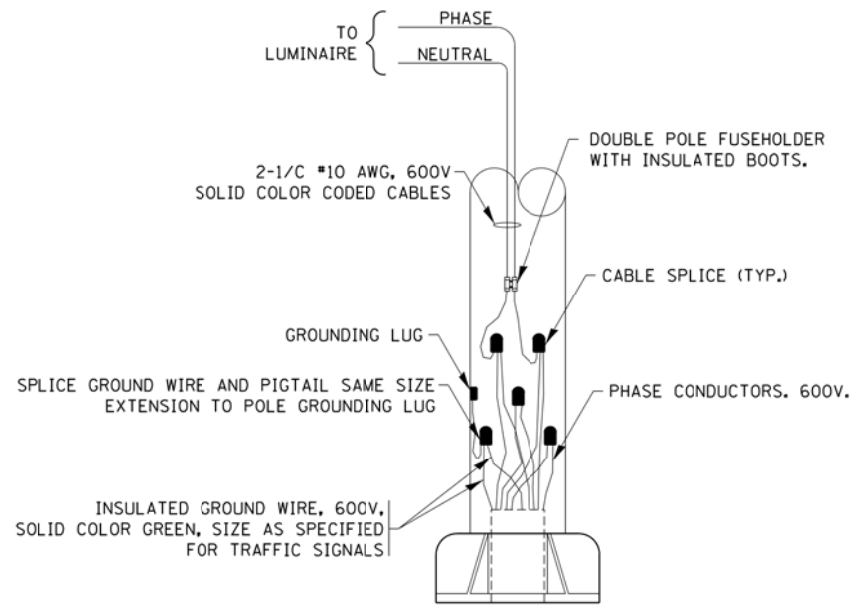
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VAR	2018-141-TS&I	WILL	68	20
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



TYPICAL LIGHTING CIRCUIT
(NOT TO SCALE)



- NOTES:**
1. 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
 2. MULTI-CONDUCTOR CABLE ASSEMBLY FOR LIGHTING CIRCUITS.
 3. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
 4. ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
 5. ALL CONTROLLERS TO HAVE TWO FUSED LIGHTING BRANCH CIRCUITS.
 6. ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
 7. THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
 8. LIGHTING CONNECTED TO UPS BYPASS CIRCUIT.
 9. COMBINATION LIGHTING MUST BE INSTALLED PRIOR TO SIGNAL TURN ON.
 10. LUMINAIRE VOLTAGE SHALL BE 120V



COMBINATION POLE WIRING DETAIL
(NOT TO SCALE)

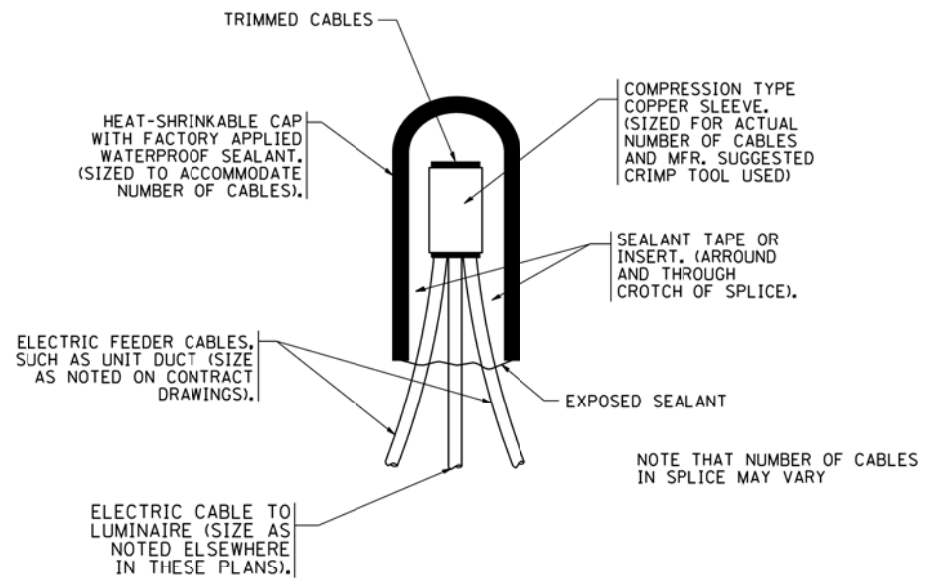
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	PLOT DATE = 03/22/18	CHECKED - RT	REVISED - T.G. 4/12/2017
		DATE - 08/18/2014	REVISED - R. TOMSONS 3/22/18

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC

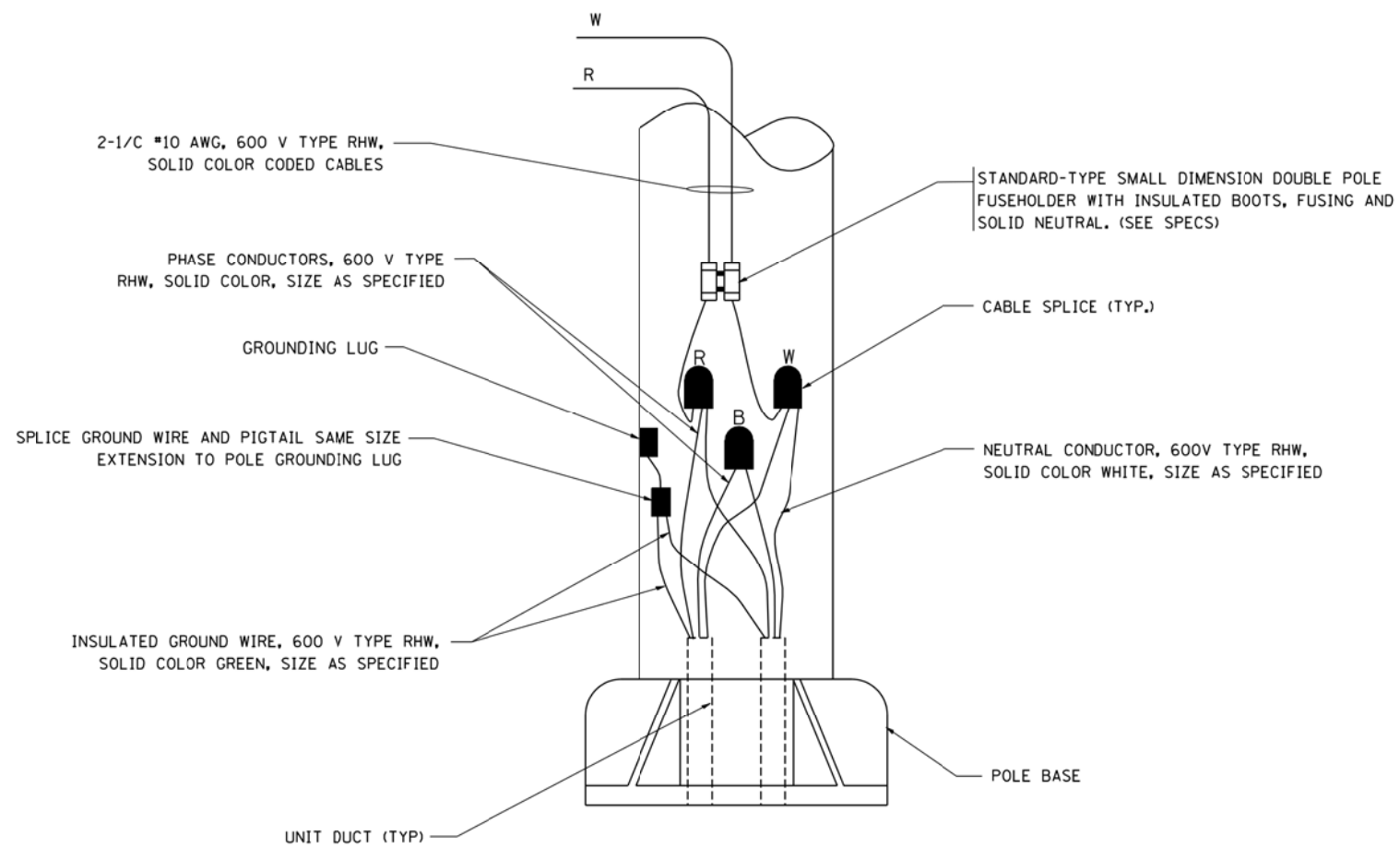
SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	21
BE-240			CONTRACT NO. 62H79	
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



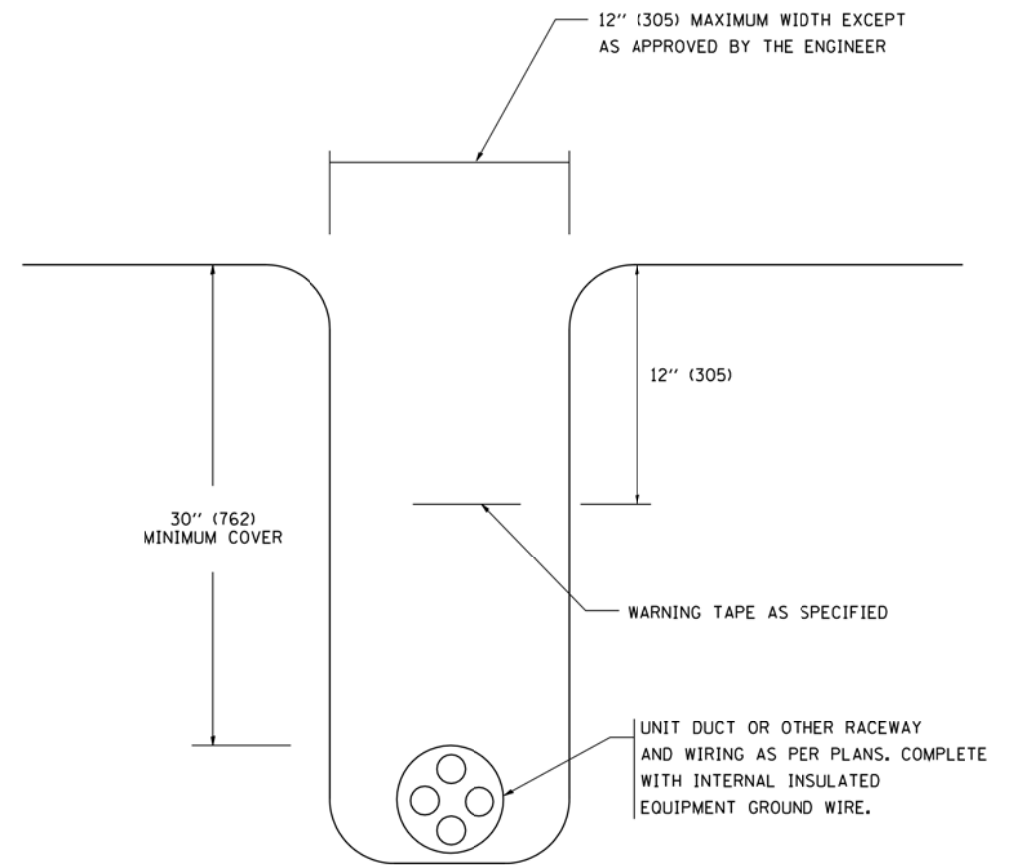
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

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USER NAME = geglanoht
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 PLOT DATE = 1/4/2008

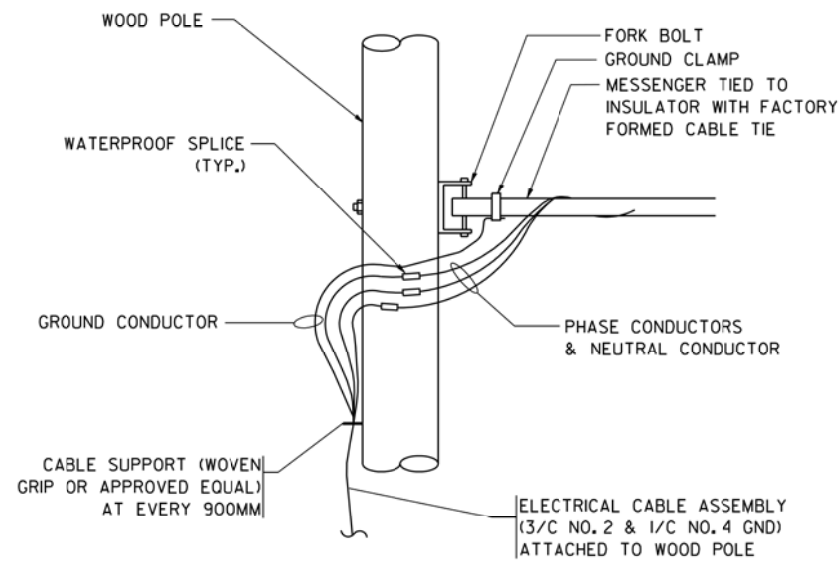
DESIGNED -	REVISED - 08-08-03
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

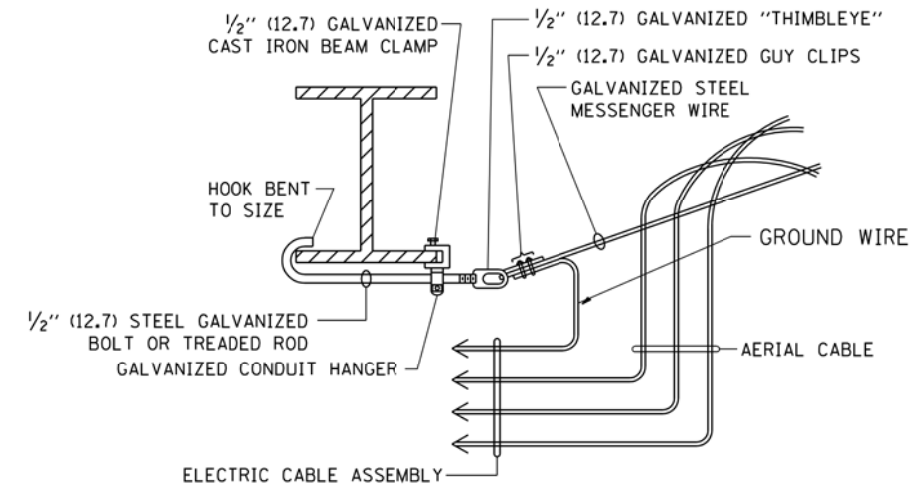
**MISC. ELECTRICAL DETAILS
 SHEET A**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	22
BE-702			CONTRACT NO. 62H79	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



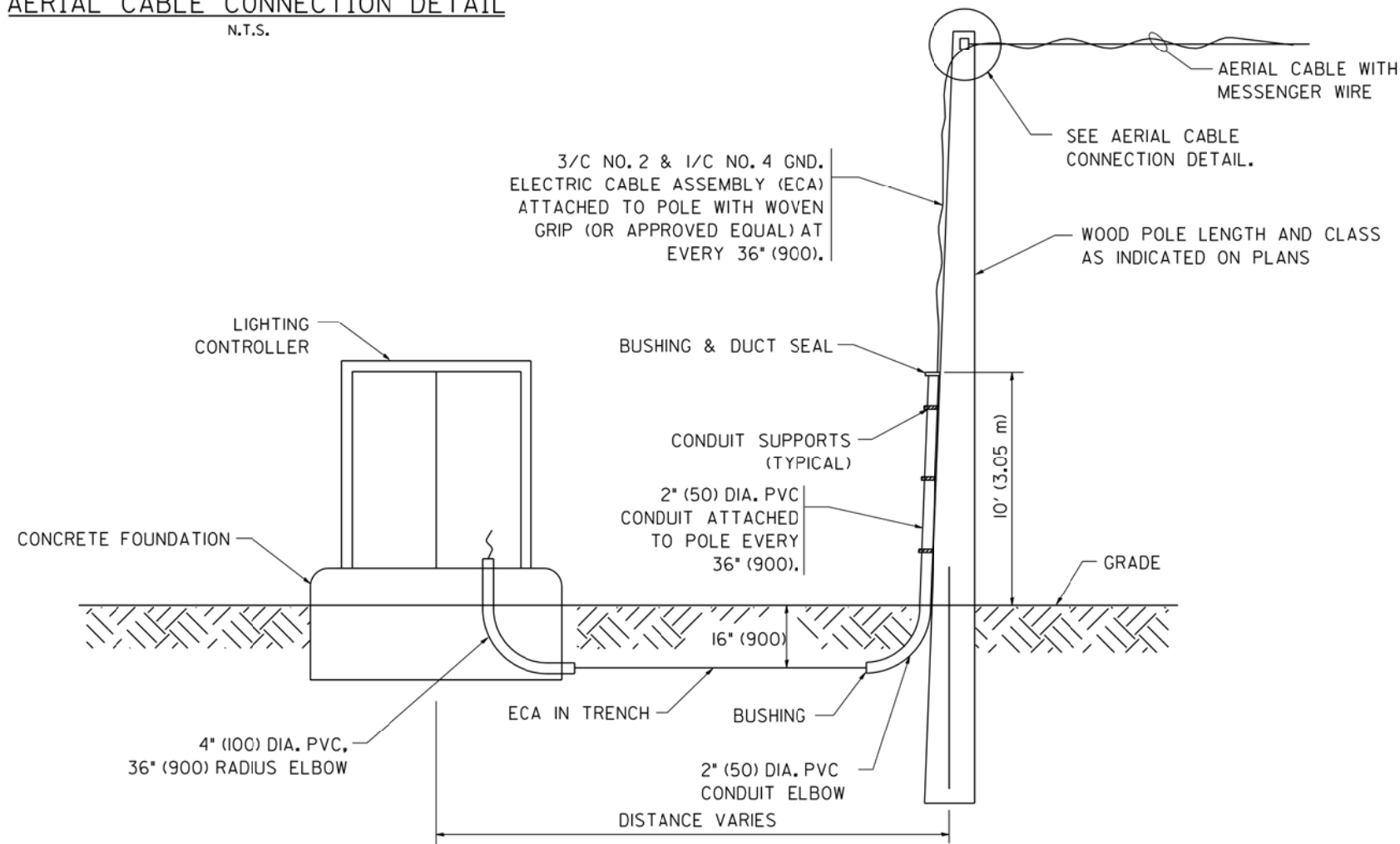
AERIAL CABLE CONNECTION DETAIL
N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE
NOT TO SCALE

NOTES:

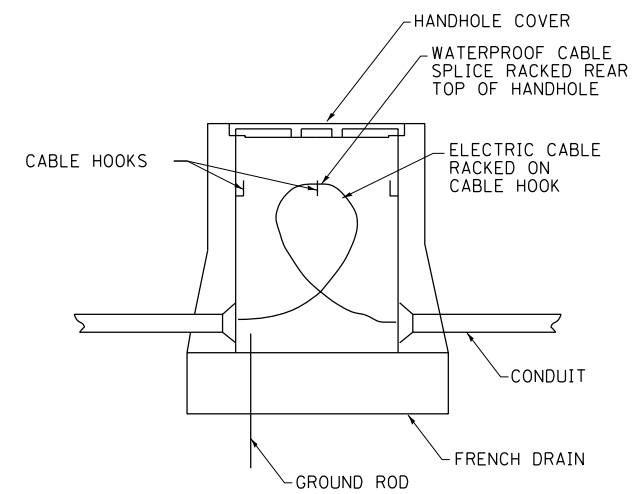
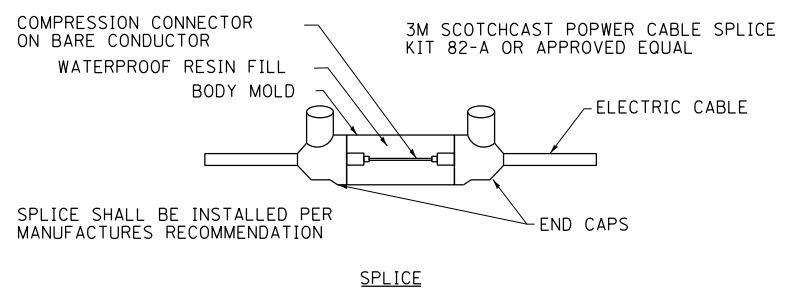
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.



WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL
N.T.S.

FILE NAME = W:\diststd\22x34\be801.dgn	USER NAME = geglanoht	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY AERIAL CABLE INSTALLATION			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED -					VAR	2018-141-TS&I	WILL	68	23
PLOT DATE = 1/4/2008	CHECKED -	REVISED -	REVISED -	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BE-801		CONTRACT NO. 62H79		
	DATE -	REVISED -	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								

FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet Roads\CADD\Sheets\01-6-4-splice detail.22-34.dgn



HANDHOLE SPLICE DETAIL



GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 206
CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

USER NAME = \$USER\$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - PKG	REVISED -
PLOT DATE = \$DATE\$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOLIET STREET LIGHTING
SPLICE DETAILS

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	24
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79	

CONSTRUCTION NOTE:

MAINTENANCE TRANSFERS OF THESE INTERSECTIONS WILL NOT BE REQUIRED BUT THERE WILL BE AN INSPECTION BETWEEN THE CONTRACTOR AND THE CITY OF JOLIET BEFORE AND AFTER THE TRAFFIC SIGNAL WORK IS COMPLETE.

RETROREFLECTIVE TRAFFIC SIGNAL BACKPLATES – SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	TOTAL	LOCATION NO -		
		6A	7A	8A
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	6	2	2	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	3	1	1	1
		US RTE 30 EB (JEFFERSON ST) AT US RTE 6 - IL RTE 53 SB (OTTAWA ST)	US RTE 6 - US RTE 30 WB (CASS ST) AT IL RTE 53 SB (OTTAWA ST)	US RTE 30 (WESTERN AVE) AT US RTE 30 (CENTER ST)
		TS 22529	TS 22353	TS 22532

REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AT INDICATED INTERSECTIONS 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.

6 EACH TRAFFIC SIGNAL BACKPLATE

K:\PROJECTS\Projects 2018\DOT Joliet_Roads\CADD_Sheets\01-7-1-Traffic Signal Backplates_S00.dgn

 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 305 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590	USER NAME = \$USER\$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES RETROREFLECTIVE TRAFFIC SIGNAL BACKPLATES			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE = 40.0000' / in.	CHECKED - PKG	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2018-141-TS&I	WILL	68	25
PLOT DATE = \$DATE\$	DATE - 6/1/2020	REVISED -							CONTRACT NO. 62H79					
												FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT

REMOVAL AND RELOCATION NOTES:

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 CONTROLLER AND CABINET (COMPLETE)
- 2 EACH STEEL MAST ARM ASSEMBLY AND POST
- 4 EACH TRAFFIC SIGNAL POST
- 7 EACH 3-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 7 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION
- 2 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH BOLLARD REMOVAL

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 THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: CITY OF JOLIET
 CONTACT PERSON: RUSSELL LUBASH
 DEPARTMENT: PUBLIC WORKS
 PHONE NUMBER: (815) 724-4200

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER



MATCH LINE STA. 102+50

EXIST. INTERCONNECT TO WESTERN AVE

US RTE 30 (CENTER ST)

MATCH LINE STA. 102+50

NOTES:

2. PRIOR TO REMOVING ANY HANDHOLE THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONDUITS AND CABLES ENTERING AND/OR LEAVING THE HANDHOLE ARE NOT USED BY ANY OTHER AGENCY OR UTILITY FOR THEIR USE. IN CASE OF CONFLICT THE CONTRACTOR SHALL CONTACT THE CITY OF JOLIET AND THE BUREAU OF TRAFFIC FOR FURTHER DIRECTION.

3. INSTALL TEMPORARY INTERCONNECT CABLE NO. 62.5/125 MM12F SM24F BETWEEN THE EXISTING CONTROLLER CABINET AND THE TEMPORARY CONTROLLER CABINET, FOR THE PURPOSE OF MAINTAINING EXISTING INTERCONNECT SYSTEM. THE CONTRACTOR SHALL MAINTAIN THIS EXISTING CABINET AND DOUBLE HANDHOLE IN PLACE UNTIL THE PROPOSED INTERCONNECT IS INSTALLED AND OPERATIONAL. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

NOTES:

1. THE EXISTING TRAFFIC SIGNAL CONTROLLER IN THE NORTHWEST CORNER SHALL BE UTILIZED TO POWER THE TEMPORARY TRAFFIC SIGNAL INSTALLATION AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER. THE EXISTING TRAFFIC SIGNAL CONTROLLER AND PERTINENT HANDHOLES SHALL REMAIN IN PLACE AND SHALL NOT BE REMOVED UNTIL NEW TRAFFIC SIGNAL INSTALLATION IS IN PLACE AND IN OPERATION.

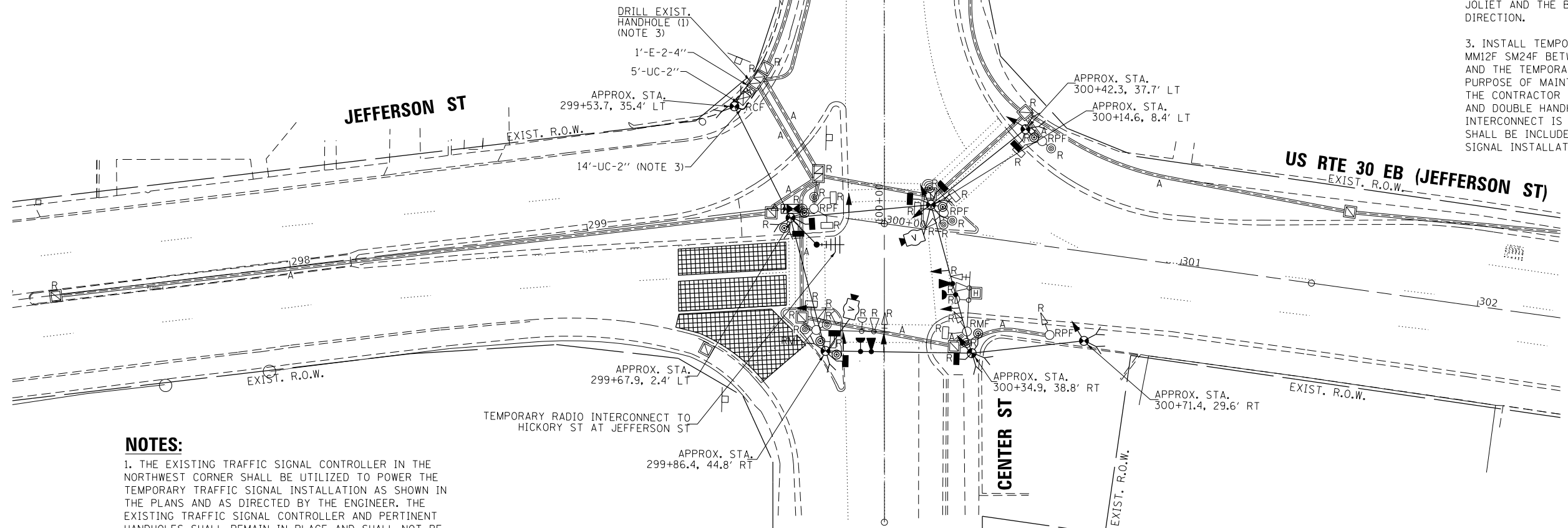
K:\PROJECTS\Projects 2018\DOT Joliet_Roads\NCDD_Sheets\19 TS 22526.01 Jefferson St-Center St-TEMP_INT.dgn

JEFFERSON ST

US RTE 30 (CENTER ST)

US RTE 30 EB (JEFFERSON ST)

CENTER ST



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0001' / in.	CHECKED - PKG	REVISED -
PLOT DATE = \$DATE\$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

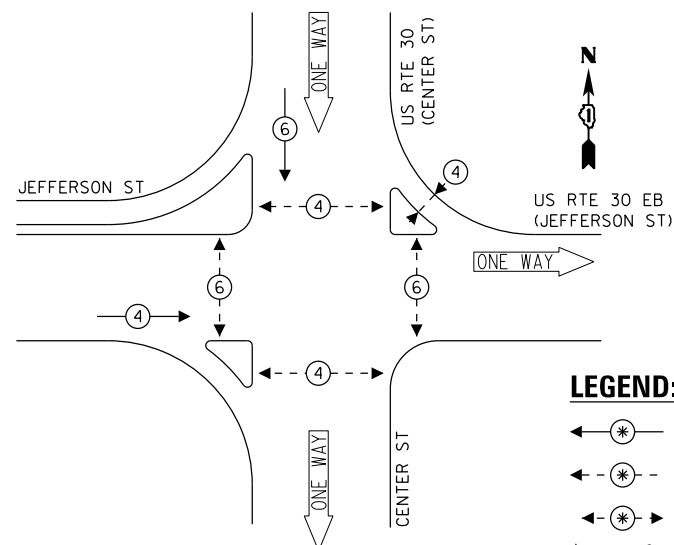
**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
 US RTE 30 (JEFFERSON ST) AT US RTE 30 (CENTER ST)**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	26
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62H79	

**TS 22526
 ECON 121
 LOCATION NO. 1A**

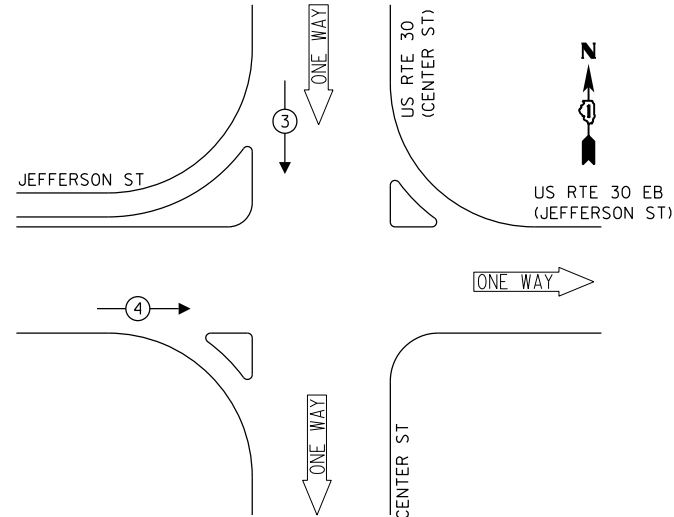
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← (⊛) ← PROTECTED PHASE
- ← - (⊛) - ← PROTECTED/PERMITTED PHASE
- ← (⊛) → PEDESTRIAN PHASE
- ← (⊛) OL OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



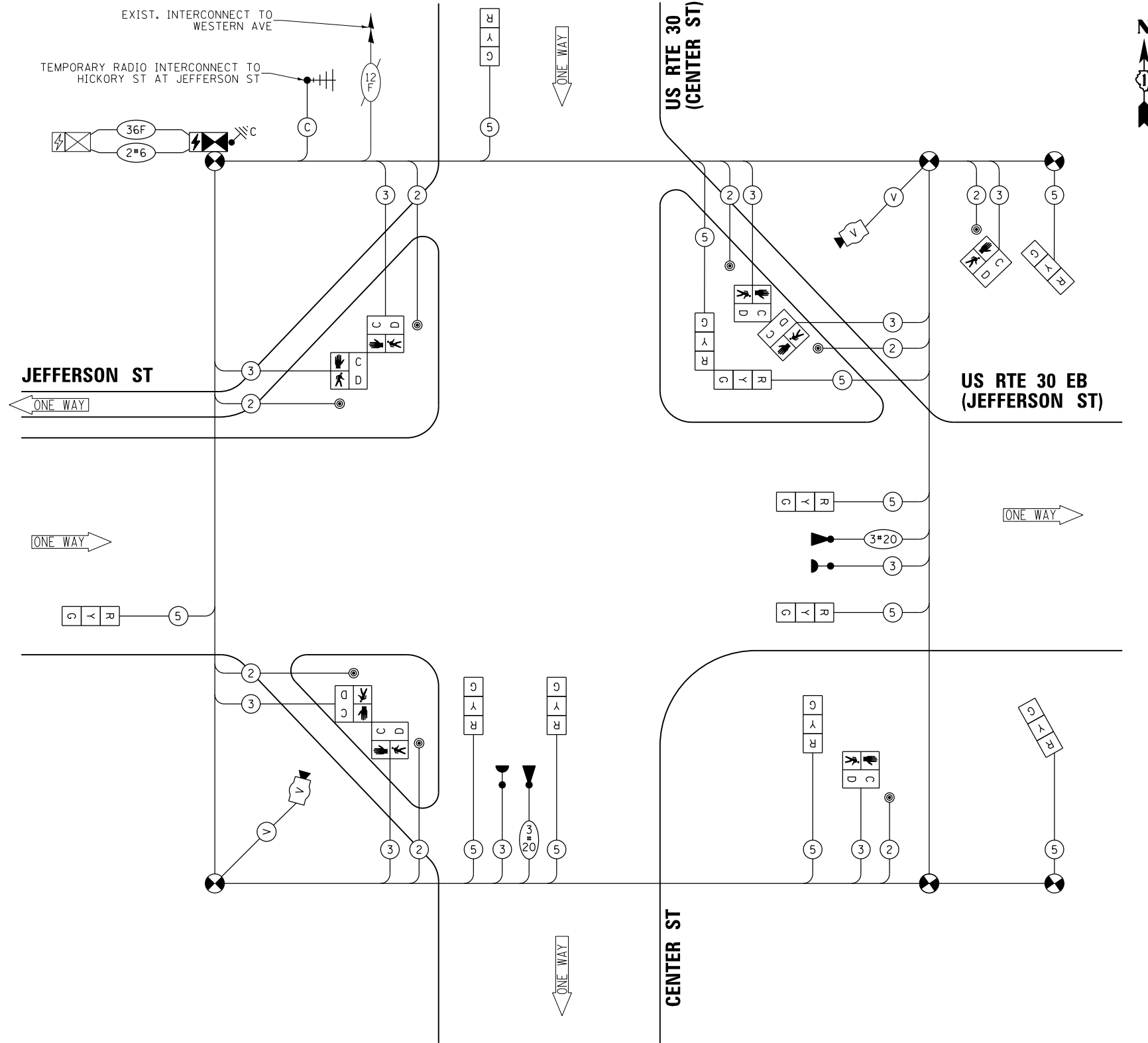
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	11	11	50	60.5
(YELLOW)	11	20	5	11.0
(GREEN)	11	12	45	59.4
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
PTZ CAMERA	-	65	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				565.9

ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:



CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 30 (JEFFERSON ST) AT US RTE 30 (CENTER ST)

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	27
				CONTRACT NO. 62H79

FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT

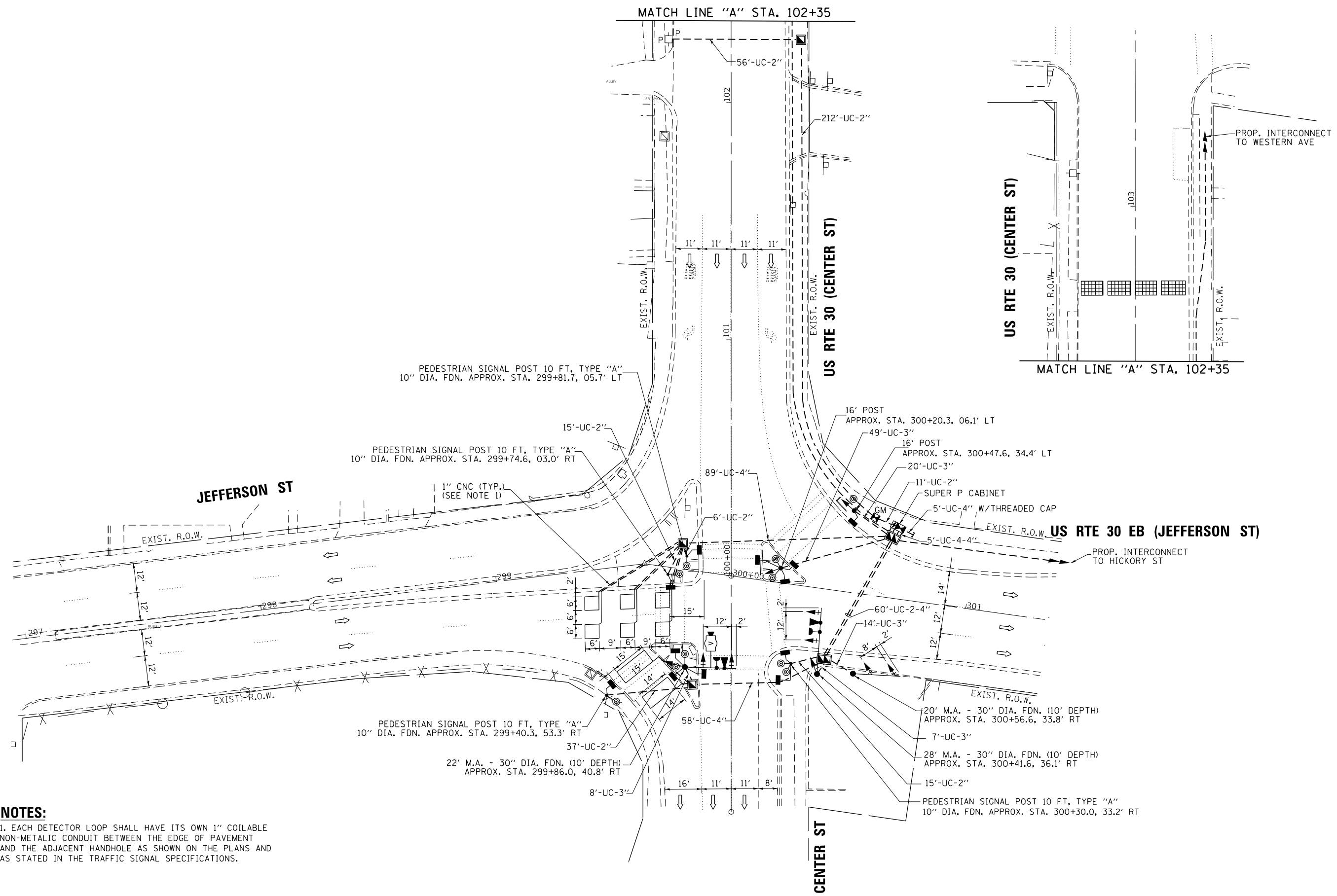
TS 22526
ECON 121
LOCATION NO. 1A

FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet_Roads\CCOD_Sheets\19 TS 22526.02.Jefferson St-Center St-TEMP_CD.dgn



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PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 6/1/2020	REVISED -

FILE NAME = K:\PROJECTS\Projects 2018\DOT Joliet Road\KCOD_Sheets\19 TS 22526.03.Jefferson St-Center St.LIN.dgn



NOTES:
 1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

**TS 22526
 ECON 121
 LOCATION NO. 1A**



USER NAME = \$USER*	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0001' / 1" =	CHECKED - PKG	REVISED -
PLOT DATE = \$DATE*	DATE - 6/1/2020	REVISED -

DRAWN - EA, AV	REVISED -
CHECKED - PKG	REVISED -
DATE - 6/1/2020	REVISED -

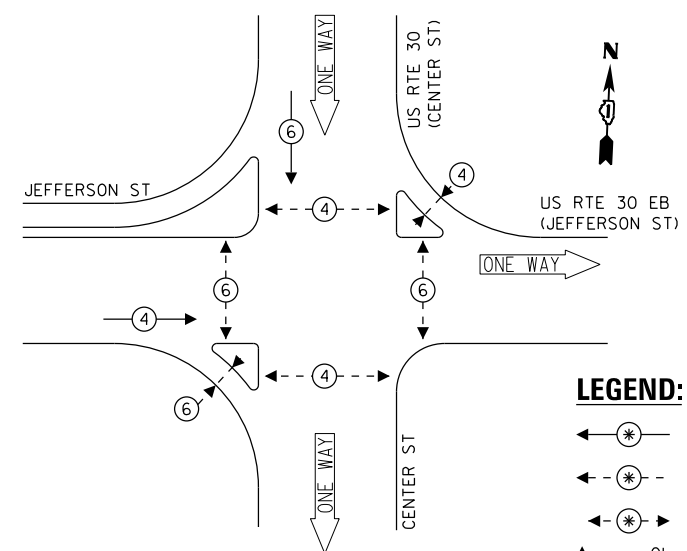
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
 US RTE 30 (JEFFERSON ST) AT US RTE 30 (CENTER ST)**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	28
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

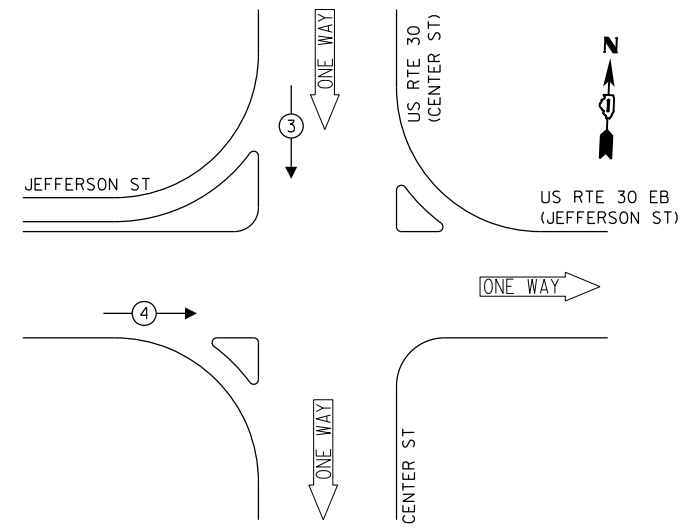
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

PROPOSED CONTROLLER SEQUENCE



- LEGEND:**
- ← ⊙ → PROTECTED PHASE
 - ← ⊙ - - ⊙ → PROTECTED/PERMITTED PHASE
 - ← ⊙ → PEDESTRIAN PHASE
 - ← ⊙ OL → OVERLAP

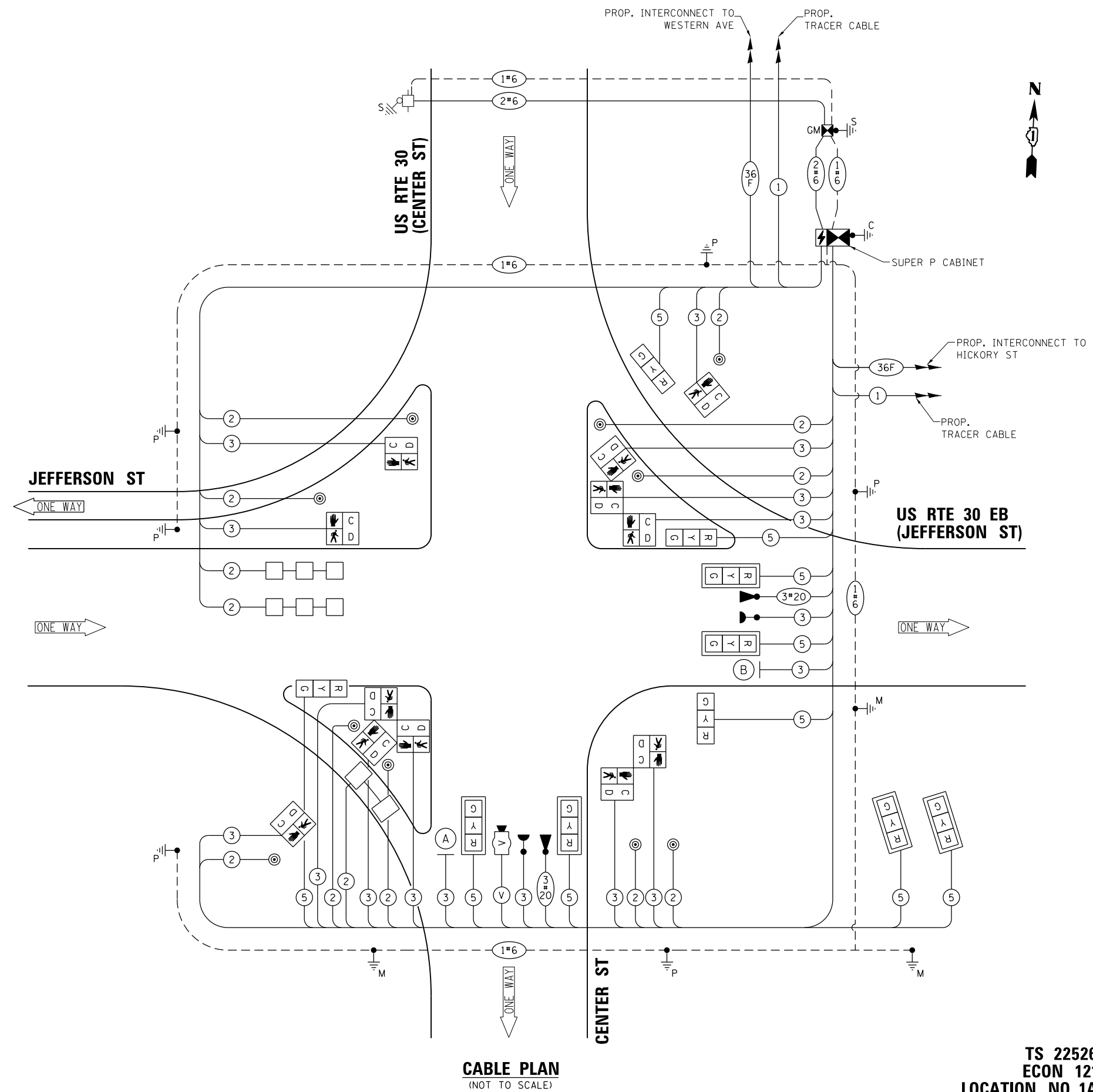
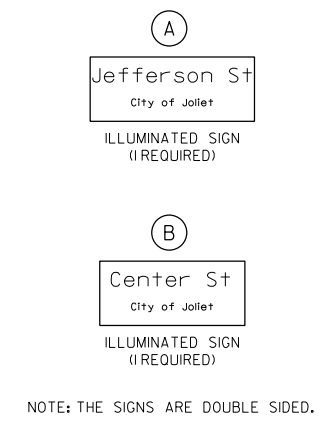
**PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55.0
(YELLOW)	10	20	5	10.0
(GREEN)	10	12	45	54.0
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	12	20	100	240.0
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	2	120	50	120.0
LUMINAIRE	-	268	50	-
TOTAL =				754.0

ENERGY COSTS TO:
CITY OF JOLIET
 150 W JEFFERSON STREET
 JOLIET, IL 60432
 ENERGY SUPPLY: CONTACT: ANNETTE KISALA
 PHONE: (815) 724-5328
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER:



CABLE PLAN
(NOT TO SCALE)

FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet_Roads\CCOD_Sheets\19 TS_22526_04_Jefferson St-Center St.CDDgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 6/1/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

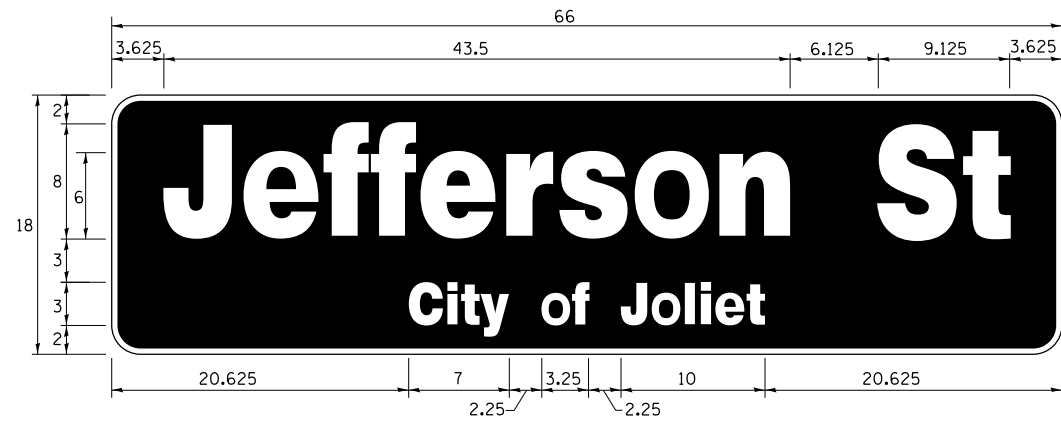
**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 30 (JEFFERSON ST) AT US RTE 30 (CENTER ST)**
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE. VAR	SECTION 2018-141-TS&I	COUNTY WILL	TOTAL SHEETS 68	SHEET NO. 29
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79	

**TS 22526
ECON 121
LOCATION NO. 1A**

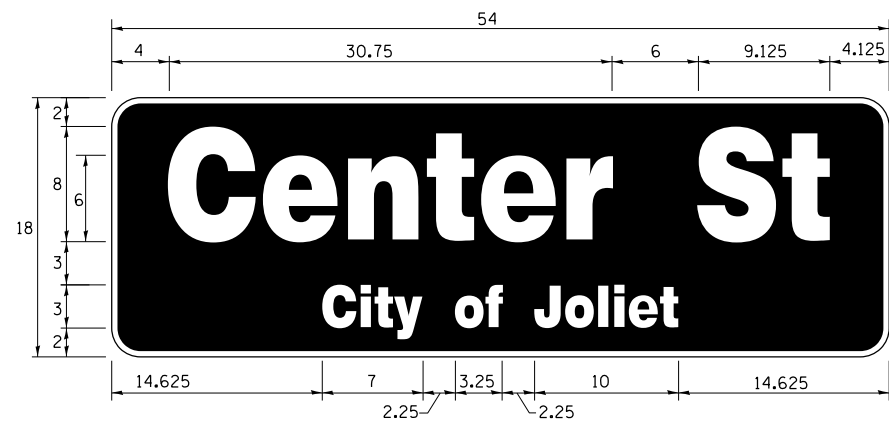
LED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	8.25	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	6.75	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM DETAIL.

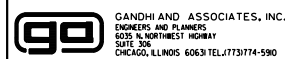
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
** ROCK EXCAVATION	CU YD	6
** DRILLED SHAFT IN ROCK	CU YD	7
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	352
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	98
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	292
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1325
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2000
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1275
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	400
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	325
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	920
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 20 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	12
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6
INDUCTIVE LOOP DETECTOR	EACH	3
DETECTOR LOOP, TYPE I	FOOT	280
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
* PEDESTRIAN PUSH-BUTTON	EACH	10
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	9
REMOVE EXISTING DOUBLE HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	356
* LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	2
* FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
* SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
** DIRECTIONAL BORING THROUGH ROCK	FOOT	595
PEDESTRIAN SIGNAL POST, 10 FT	EACH	4
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	16
TEMPORARY INFORMATION SIGNING	SQ FT	51.4
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
* ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE S00W	FOOT	345

* 100% COST TO CITY OF JOLIET

** NOMINAL QUANTITY HAS BEEN PROVIDED FOR AREAS WHERE BED ROCK IS ENCOUNTERED WHEN DRILLING, EXCAVATING, AND/OR BORING FOR TEMPORARY WOOD POLES, CONCRETE FOUNDATIONS, HANDHOLES, AND CONDUIT.

K:\PROJECTS\Projects\2018\DDOT\Joliet_Roads\CCOD_Sheets\19_TS_22526_05_Jefferson_St-Center_St_CD2.dgn



GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

USER NAME = \$USER\$	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED LED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
US RTE 30 (JEFFERSON ST) AT US RTE 30 (CENTER ST)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	30
CONTRACT NO. 62H79			FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT	

TS 22526
ECON 121
LOCATION NO. 1A

REMOVAL AND RELOCATION NOTES:

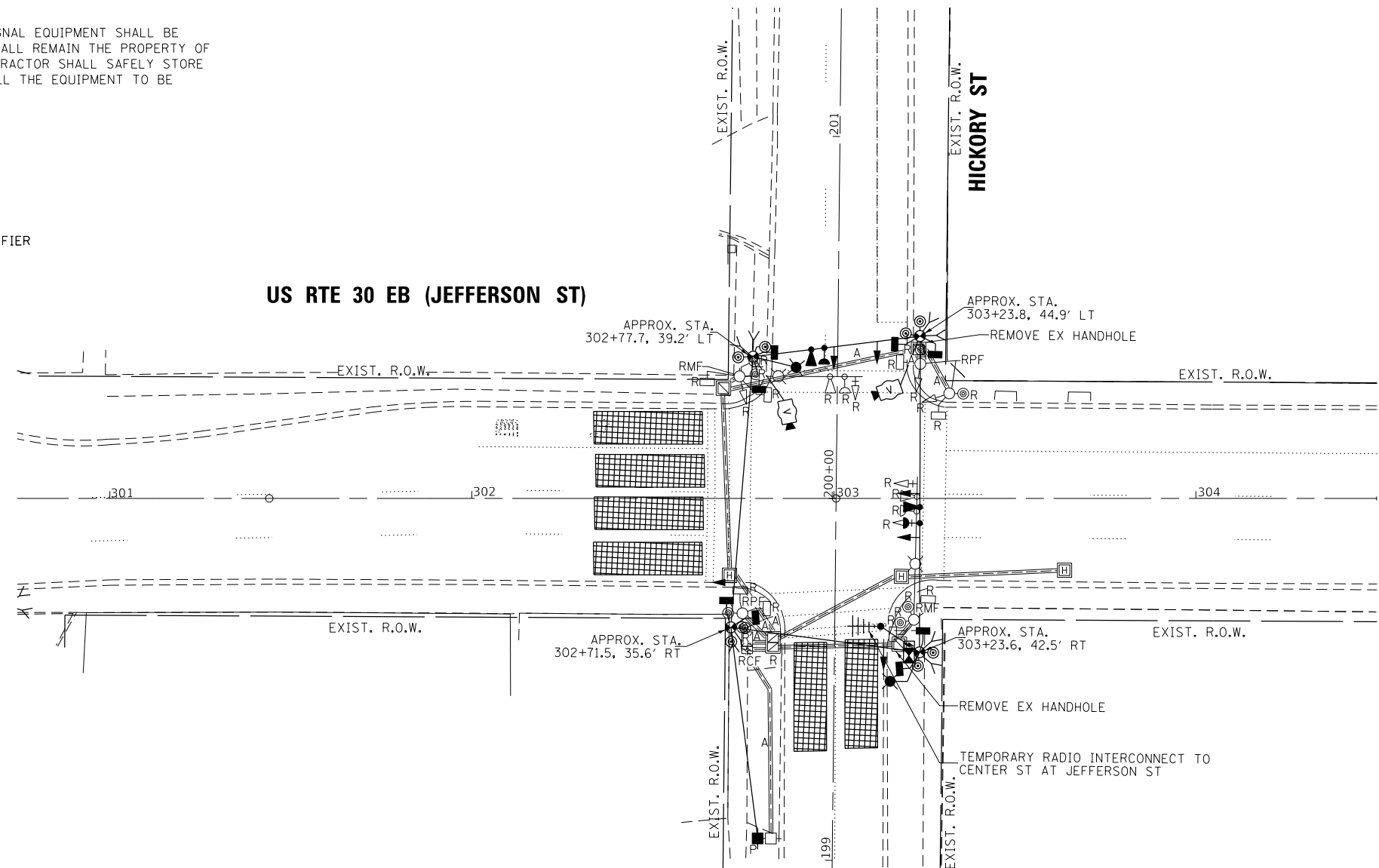
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 2 EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POST
- 3 EACH TRAFFIC SIGNAL POST
- 6 EACH 3-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 8 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION
- 3 EACH TRAFFIC SIGNAL BACKPLATE

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 THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: CITY OF JOLIET
 CONTACT PERSON: RUSSELL LUBASH
 DEPARTMENT: PUBLIC WORKS
 PHONE NUMBER: (815) 724-4200

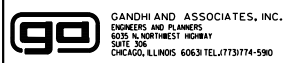
- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER



NOTES:

1. PRIOR TO REMOVING ANY HANDHOLE THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONDUITS AND CABLES ENTERING AND/OR LEAVING THE HANDHOLE ARE NOT USED BY ANY OTHER AGENCY OR UTILITY FOR THEIR USE. IN CASE OF CONFLICT THE CONTRACTOR SHALL CONTACT THE CITY OF JOLIET AND THE BUREAU OF TRAFFIC FOR FURTHER DIRECTION.

K:\PROJECTS\Projects\2018\DDOT\Joliet_Roads\CADD\Sheets\20 TS 22527_01_Jefferson St-Hickory St.TEMP_INT.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
DRAWN - EA, AV	CHECKED - PKG	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 6/1/2020	REVISED -
PLOT DATE = \$DATE\$		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

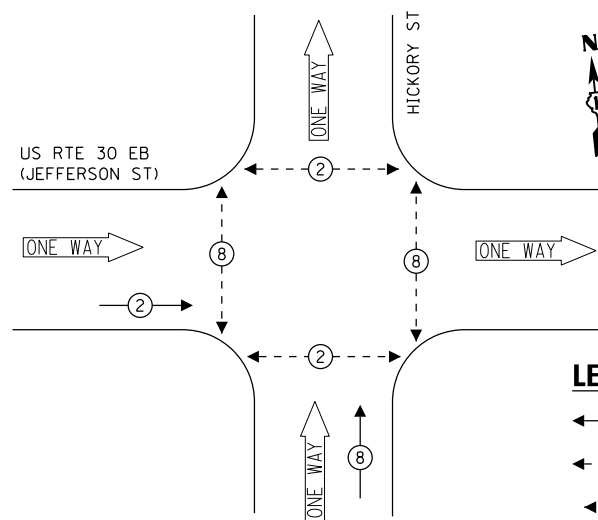
**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
 US RTE 30 EB (JEFFERSON ST) AT HICKORY ST**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	31
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79	

**TS 22527
 ECON 121
 LOCATION NO. 2A**

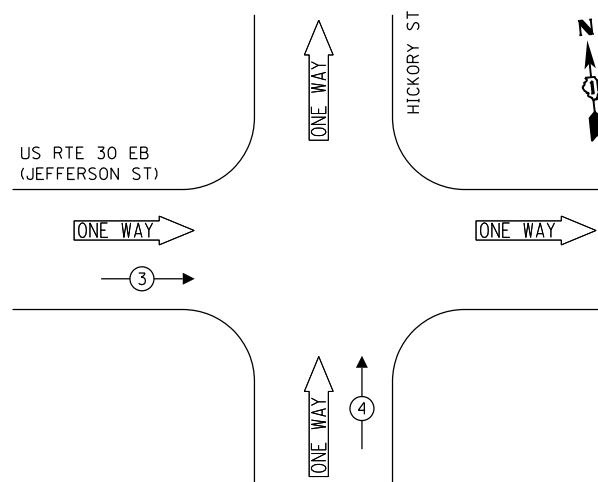
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← ⊙ → PROTECTED PHASE
- ← ⊙ - - PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



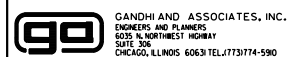
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	6	11	50	33.0
(YELLOW)	6	20	5	6.0
(GREEN)	6	12	45	32.4
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
PTZ CAMERA	-	65	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	268	50	268.0
TOTAL =				774.4

ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 6/1/2020	REVISED -

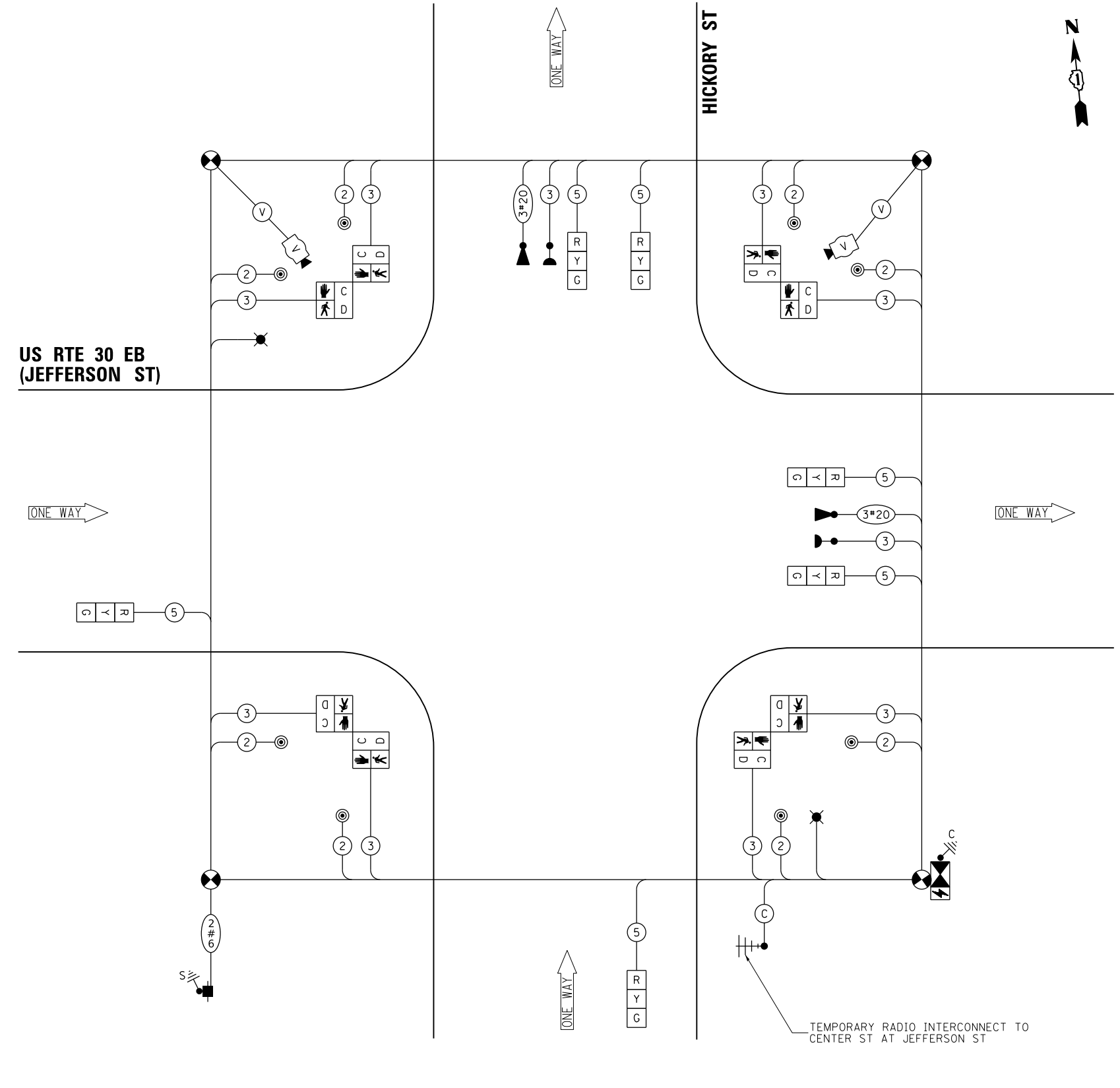
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 30 EB (JEFFERSON ST) AT HICKORY ST

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	32
CONTRACT NO. 62H79				

FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT

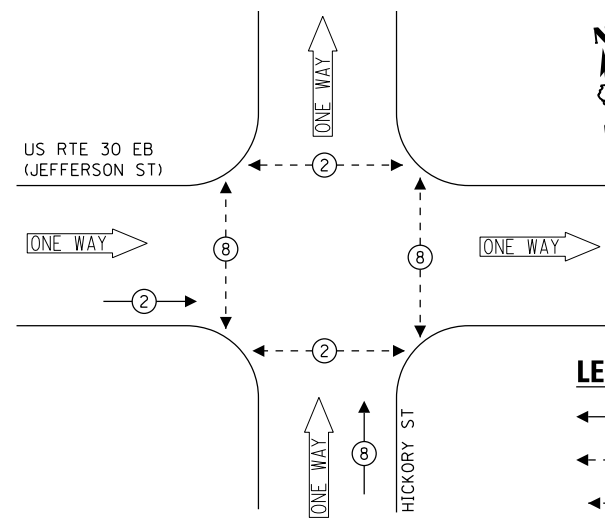


CABLE PLAN
(NOT TO SCALE)

FILE NAME = K:\PROJECTS\Projects\2018\DOT\Joliet_Roads\CCOD_Sheets\20 TS_22527_02_Jefferson St-Hickory St.TEMP.CADD

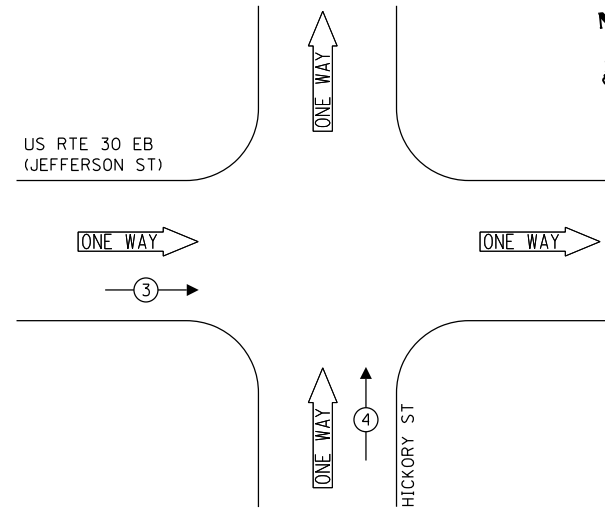
TS 22527
ECON 121
LOCATION NO. 2A

PROPOSED CONTROLLER SEQUENCE



- LEGEND:**
- ← (⊙) ← PROTECTED PHASE
 - ← (⊙) ← PROTECTED/PERMITTED PHASE
 - ← (⊙) ← PEDESTRIAN PHASE
 - ← (⊙) ← OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



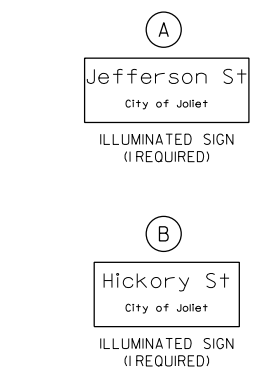
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	8	11	50	44.0
(YELLOW)	8	20	5	8.0
(GREEN)	8	12	45	43.2
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	8	20	100	160.0
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	2	120	50	120.0
LUMINAIRE	2	240	50	268.0
TOTAL =				890.2

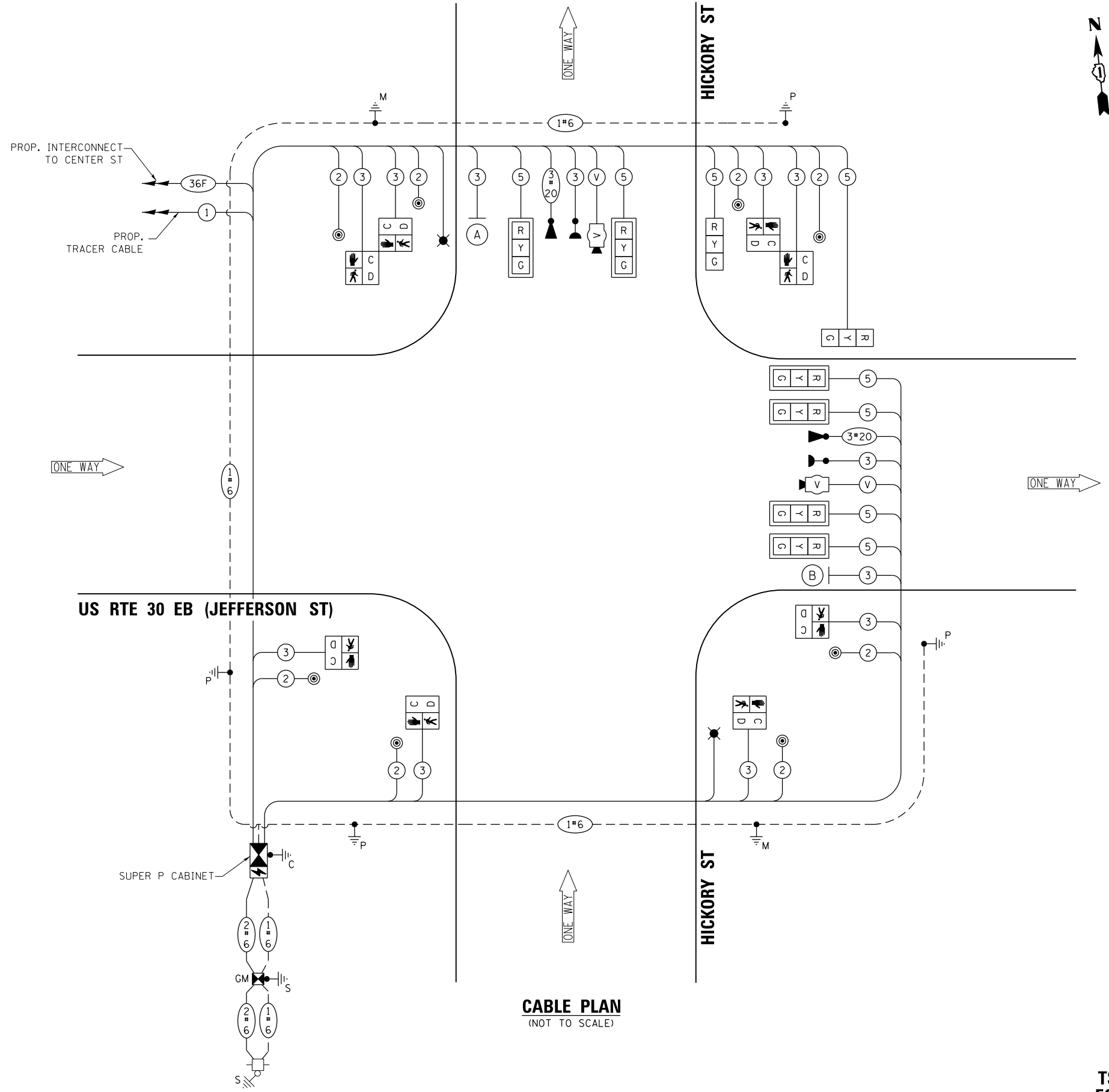
ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:



NOTE: THE SIGNS ARE DOUBLE SIDED.



CABLE PLAN
(NOT TO SCALE)

FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet_Roads\Roads\CCOD_Sheets\20 TS_22527_04_Jefferson St-Hickory St.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 30 EB (JEFFERSON ST) AT HICKORY ST

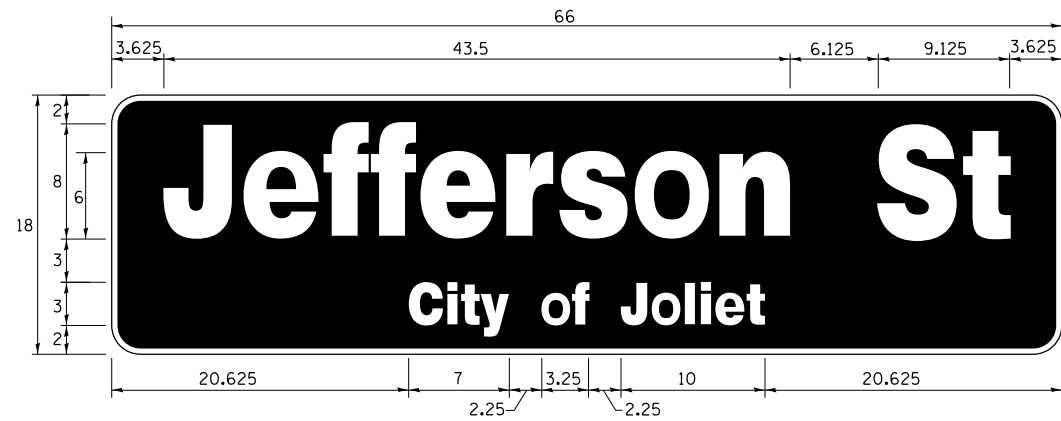
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	34
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 22527
ECON 121
LOCATION NO. 2A

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

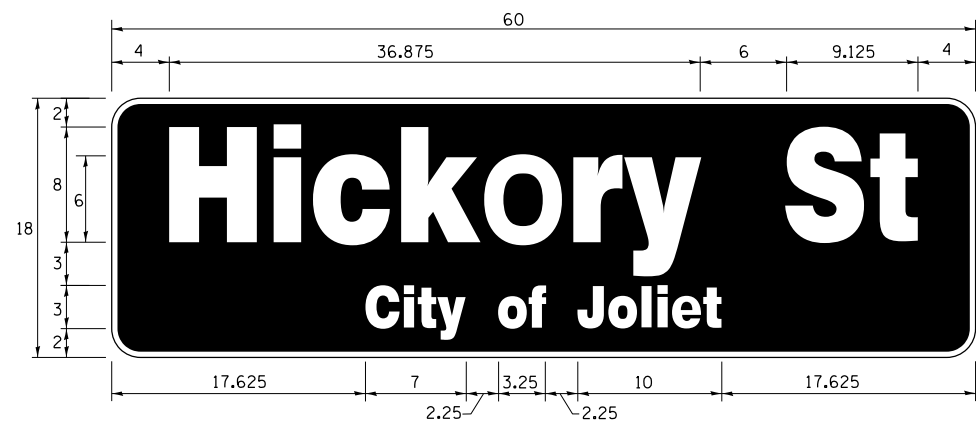
LED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	8.25	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	7.5	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
** ROCK EXCAVATION	CU YD	4
** DRILLED SHAFT IN ROCK	CU YD	7.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	96
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	202
HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	855
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1190
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1220
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	107
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	450
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	13.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
DRILL EXISTING HANDHOLE	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	2
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	300
* LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	2
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
** DIRECTIONAL BORING THROUGH ROCK	FOOT	245
PEDESTRIAN SIGNAL POST, 10 FT	EACH	3
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	12
TEMPORARY INFORMATION SIGNING	SQ FT	25.7
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
* ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE S00W	FOOT	246

* 100% COST TO CITY OF JOLIET

** NOMINAL QUANTITY HAS BEEN PROVIDED FOR AREAS WHERE BED ROCK IS ENCOUNTERED WHEN DRILLING, EXCAVATING, AND/OR BORING FOR TEMPORARY WOOD POLES, CONCRETE FOUNDATIONS, HANDHOLES, AND CONDUIT.

K:\PROJECTS\Projects\2018\DOT Joliet_Roads\CADD_Sheets\20 TS_22527_05 Jefferson St-Hickory St.CDD.dgn



USER NAME = \$USER*	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - PKG	REVISED -
PLOT DATE = \$DATE*	DATE - 6/1/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM MOUNTED LED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
US RTE 30 EB (JEFFERSON ST) AT HICKORY ST**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	35
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62H79	

**TS 22527
ECON 121
LOCATION NO. 2A**



REMOVAL AND RELOCATION NOTES:

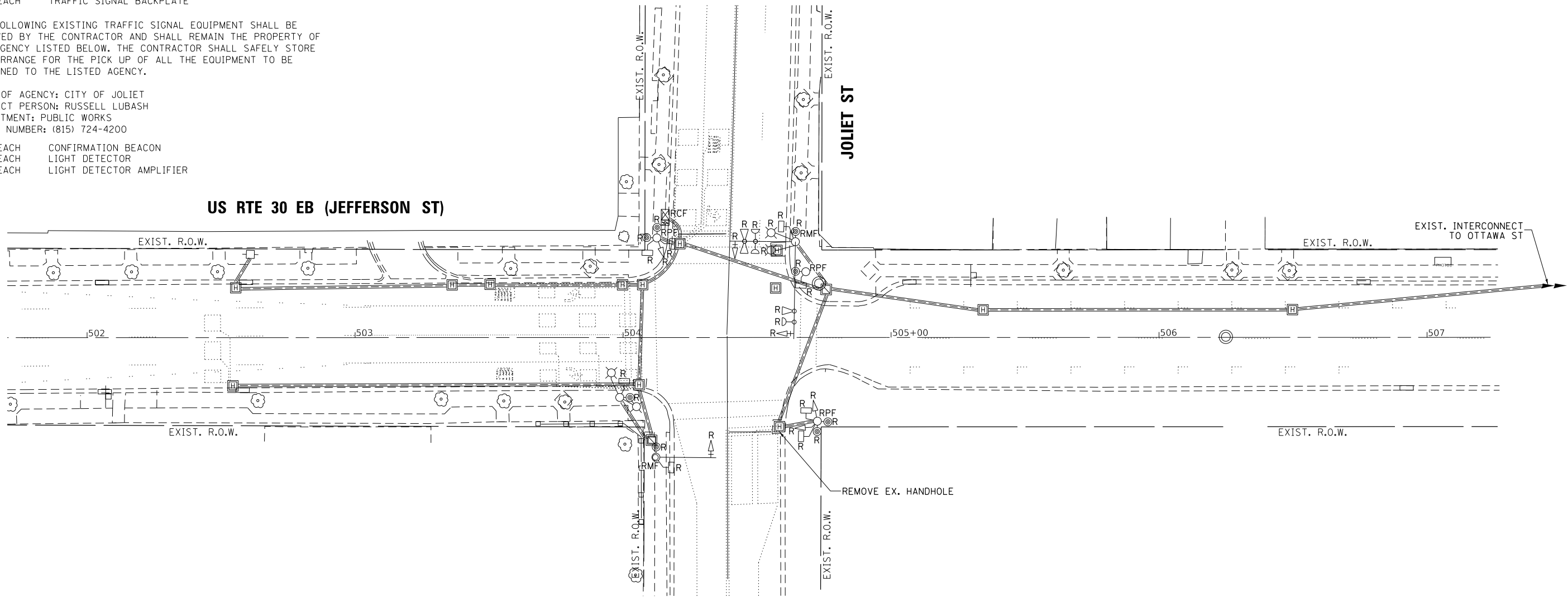
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH STEEL MAST ARM ASSEMBLY AND POST
- 1 EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POST W/ DUAL MAST ARM
- 3 EACH TRAFFIC SIGNAL POST
- 4 EACH 3-SECTION SIGNAL HEAD
- 2 EACH 5-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 8 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION
- 3 EACH TRAFFIC SIGNAL BACKPLATE

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 THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: CITY OF JOLIET
 CONTACT PERSON: RUSSELL LUBASH
 DEPARTMENT: PUBLIC WORKS
 PHONE NUMBER: (815) 724-4200

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER



NOTES:

1. THE EXISTING TRAFFIC SIGNAL INSTALLATION AT THIS INTERSECTION SHALL REMAIN IN OPERATION UNTIL NEW TRAFFIC SIGNAL INSTALLATION IS IN PLACE AND IN OPERATION. THE EXISTING TRAFFIC SIGNAL INSTALLATION SHALL BE REMOVED AFTER THE NEW SIGNAL INSTALLATION BECOMES OPERATIONAL.
2. PRIOR TO REMOVING ANY HANDHOLE THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONDUITS AND CABLES ENTERING AND/OR LEAVING THE HANDHOLE ARE NOT USED BY ANY OTHER AGENCY OR UTILITY FOR THEIR USE. IN CASE OF CONFLICT THE CONTRACTOR SHALL CONTACT THE CITY OF JOLIET AND THE BUREAU OF TRAFFIC FOR FURTHER DIRECTION.

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USER NAME = \$USER\$	DESIGNED - EA	REVISED -
DRAWN - EA, AV	CHECKED - PKG	REVISED -
DATE - 6/1/2020		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

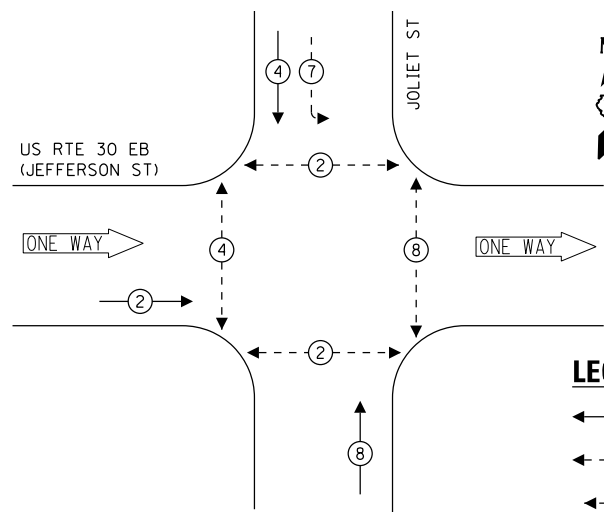
**EXISTING TRAFFIC SIGNAL PLAN
 AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
 US RTE 30 EB (JEFFERSON ST) AT JOLIET ST**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	36
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

**TS 22528
 ECON 121
 LOCATION NO. 3A**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

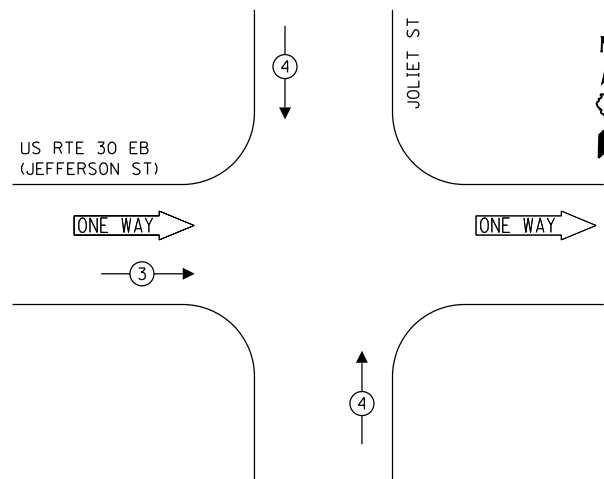
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ← ⊛ ← PROTECTED PHASE
- ← ⊛ ← PROTECTED/PERMITTED PHASE
- ← ⊛ → PEDESTRIAN PHASE
- ← ⊛ OL OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



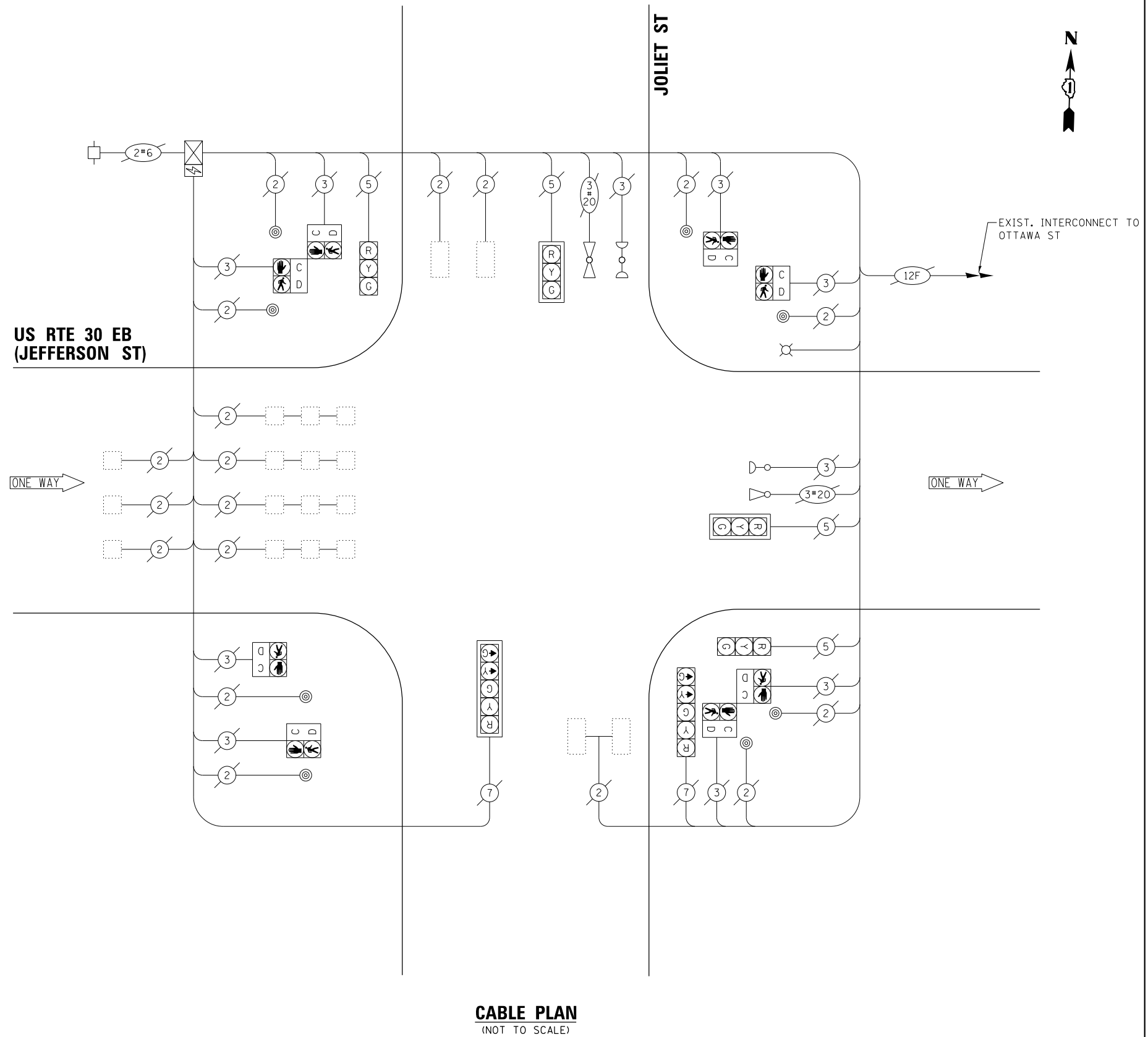
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	6	11	50	33.0
(YELLOW)	6	20	5	6.0
(GREEN)	6	12	45	32.4
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
PTZ CAMERA	-	65	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				360.4

ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: _____



CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM,
AND EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 30 EB (JEFFERSON ST) AT JOLIET ST

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

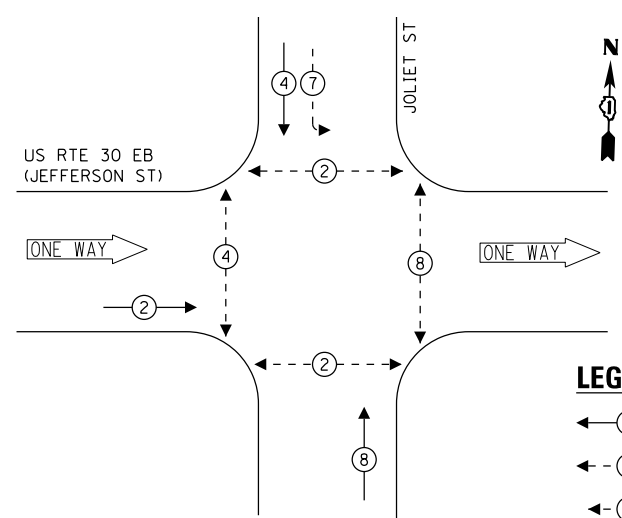
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	37
				CONTRACT NO. 62H79

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

TS 22528
ECON 121
LOCATION NO. 3A

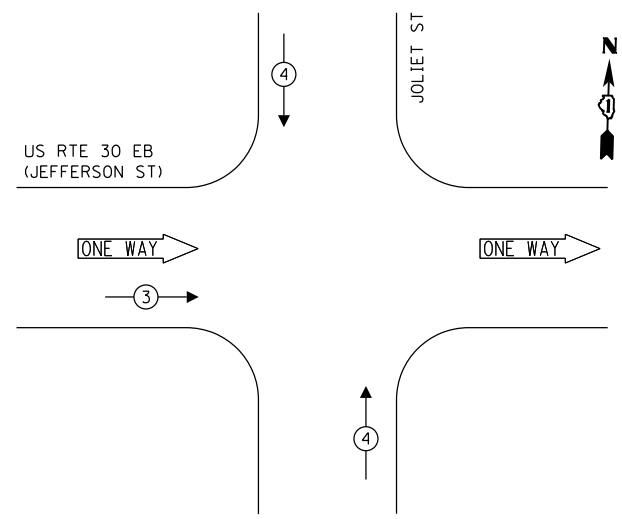
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PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 6/1/2020	REVISED -

PROPOSED CONTROLLER SEQUENCE



- LEGEND:**
- ← * → PROTECTED PHASE
 - ← * - - PROTECTED/PERMITTED PHASE
 - ← * → PEDESTRIAN PHASE
 - ← * OL → OVERLAP

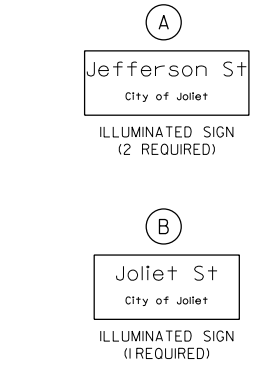
PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

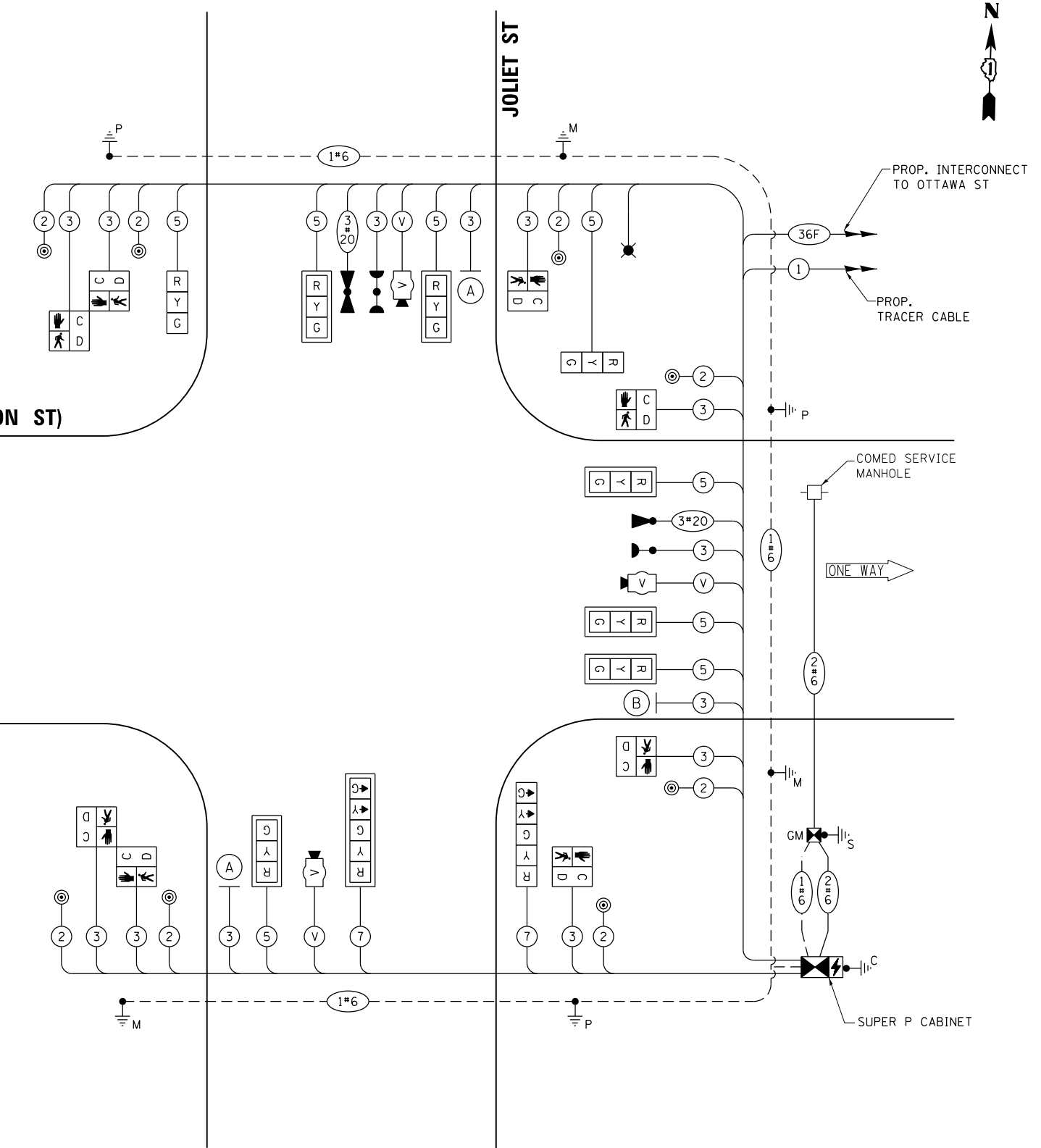
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55.0
(YELLOW)	10	20	5	10.0
(GREEN)	10	12	45	54.0
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	3	120	50	180.0
LUMINAIRE	1	240	50	120.0
TOTAL =				858.0

ENERGY COSTS TO:
 CITY OF JOLIET
 150 W JEFFERSON STREET
 JOLIET, IL 60432
 ENERGY SUPPLY: CONTACT: ANNETTE KISALA
 PHONE: (815) 724-5328
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER:



NOTE: THE SIGNS ARE DOUBLE SIDED.

US RTE 30 EB (JEFFERSON ST)



CABLE PLAN
(NOT TO SCALE)

FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet_Roads\Roads\CCOD_Sheets\21 TS_22528_04_Jefferson St-Joliet St.CADD



USER NAME = \$USER\$
 DESIGNED - EA
 DRAWN - EA, AV
 CHECKED - PKG
 DATE - 6/1/2020

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 30 EB (JEFFERSON ST) AT JOLIET ST

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	39

CONTRACT NO. 62H79

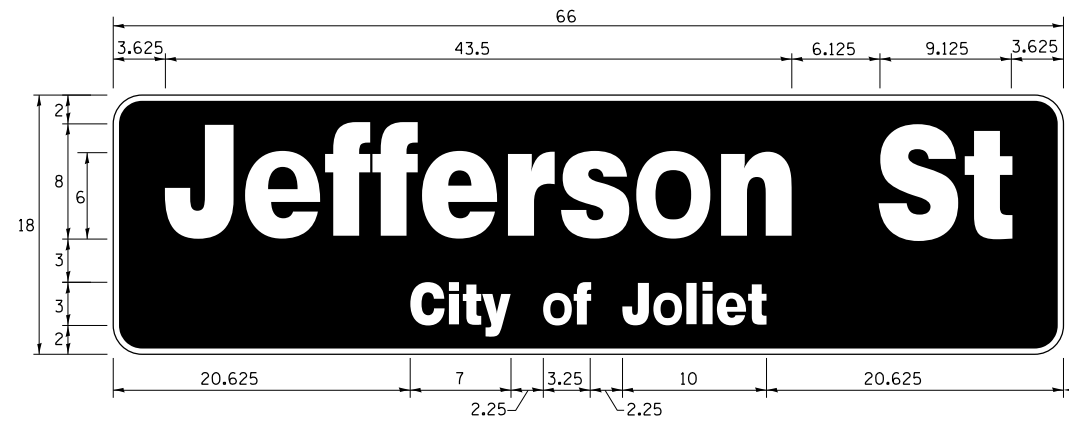
TS 22528
ECON 121
LOCATION NO. 3A

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT

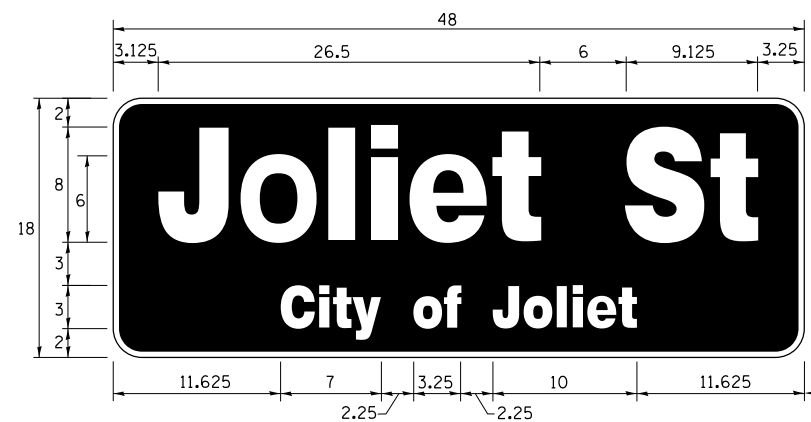
LED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	8.25	LED	N/A	2

SIGN SHALL BE DOUBLE-SIDED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	6.0	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM DETAIL.

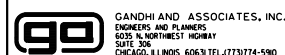
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
** ROCK EXCAVATION	CU YD	4
** DRILLED SHAFT IN ROCK	CU YD	5.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	95
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	56
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	242
HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	917
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1200
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	975
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	233
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	117
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	632
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	33.5
DRILL EXISTING HANDHOLE	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	7
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
* PEDESTRIAN PUSH-BUTTON	EACH	8
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	227
* LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
* FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
** DIRECTIONAL BORING THROUGH ROCK	FOOT	315
PEDESTRIAN SIGNAL POST, 10 FT	EACH	1
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	3
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	4
TEMPORARY INFORMATION SIGNING	SQ FT	25.7
* ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	350

* 100% COST TO CITY OF JOLIET

** NOMINAL QUANTITY HAS BEEN PROVIDED FOR AREAS WHERE BED ROCK IS ENCOUNTERED WHEN DRILLING, EXCAVATING, AND/OR BORING FOR CONCRETE FOUNDATIONS, HANDHOLES, AND CONDUIT.

K:\PROJECTS\Projects 2018\DDOT Joliet Road\NCDD\Sheets\21 TS 22528_05 Jefferson St-Joliet St-CD2.dgn



GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5015 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

USER NAME = \$USER*	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 48.0000' / in.	CHECKED - PKG	REVISED -
PLOT DATE = \$DATE*	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED LED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
US RTE 30 EB (JEFFERSON ST) AT JOLIET ST

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	40
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62H79	

TS 22528
ECON 121
LOCATION NO. 3A

REMOVAL AND RELOCATION NOTES:

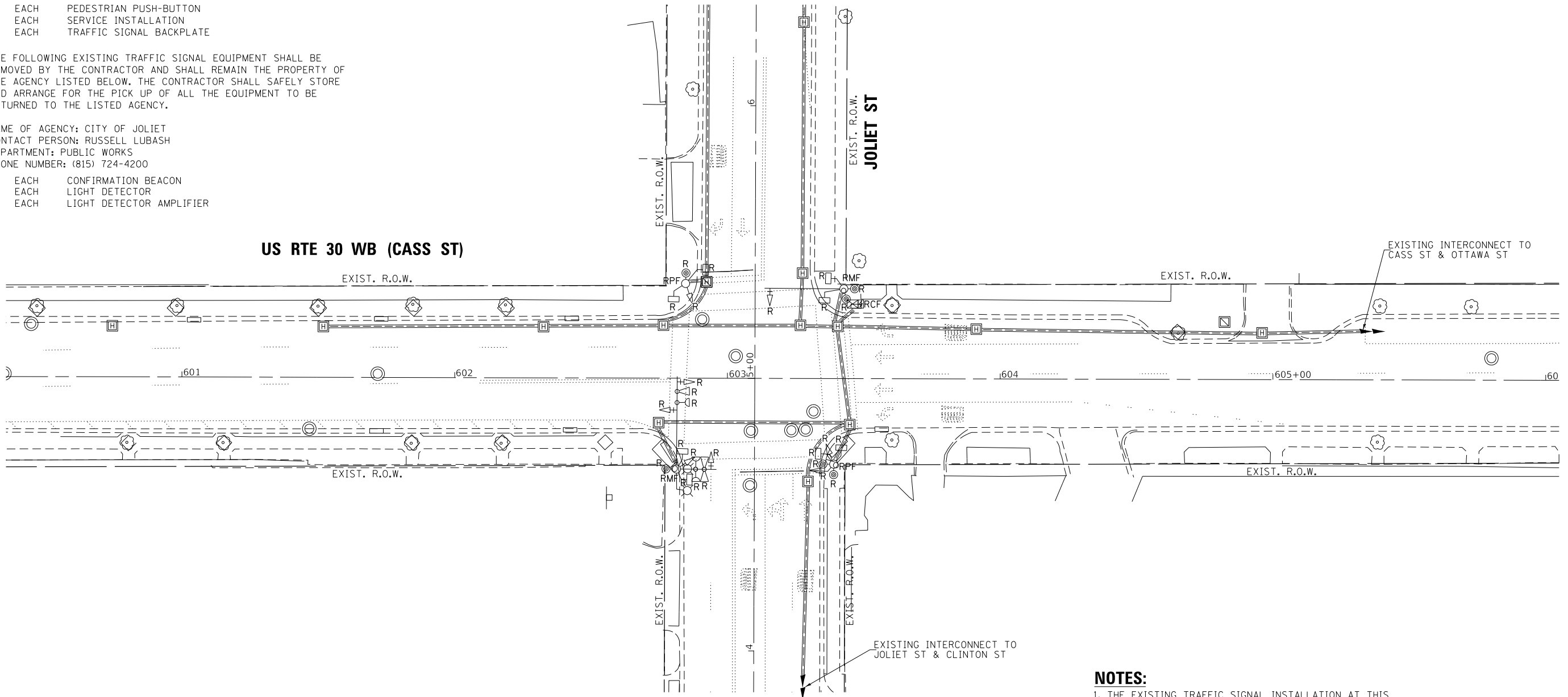
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH STEEL MAST ARM ASSEMBLY AND POST
- 1 EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POST W/ DUAL MAST ARM
- 2 EACH TRAFFIC SIGNAL POST
- 6 EACH 3-SECTION SIGNAL HEAD
- 2 EACH 5-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 6 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION
- 4 EACH TRAFFIC SIGNAL BACKPLATE

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 THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: CITY OF JOLIET
 CONTACT PERSON: RUSSELL LUBASH
 DEPARTMENT: PUBLIC WORKS
 PHONE NUMBER: (815) 724-4200

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER



NOTES:

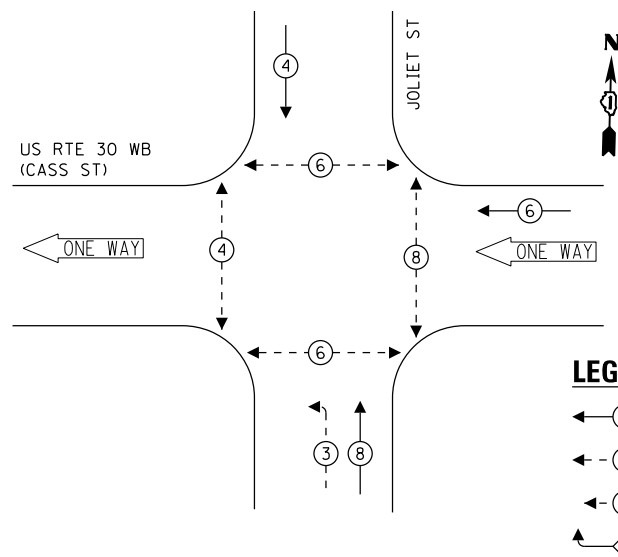
1. THE EXISTING TRAFFIC SIGNAL INSTALLATION AT THIS INTERSECTION SHALL REMAIN IN OPERATION UNTIL NEW TRAFFIC SIGNAL INSTALLATION IS IN PLACE AND IN OPERATION. THE EXISTING TRAFFIC SIGNAL INSTALLATION SHALL BE REMOVED AFTER THE NEW SIGNAL INSTALLATION BECOMES OPERATIONAL.
2. PRIOR TO REMOVING ANY HANDHOLE THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONDUITS AND CABLES ENTERING AND/OR LEAVING THE HANDHOLE ARE NOT USED BY ANY OTHER AGENCY OR UTILITY FOR THEIR USE. IN CASE OF CONFLICT THE CONTRACTOR SHALL CONTACT THE CITY OF JOLIET AND THE BUREAU OF TRAFFIC FOR FURTHER DIRECTION.

K:\PROJECTS\Projects\2018\DDT Joliet_Roads\CADD_Sheets\23 TS_22534_01.Cass St-Joliet St_TEMP_INT.dgn

	USER NAME = \$USER\$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING TRAFFIC SIGNAL PLAN AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN US RTE 30 WB (CASS ST) AT JOLIET ST			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
	PLOT SCALE = 40.0000' / in.	CHECKED - PKG	REVISED -		REVISED -	SCALE: 1"=20'	SHEET NO.	OF	SHEETS	STA.	TO	STA.	VAR	2018-141-TS&I	WILL
PLOT DATE = \$DATE\$	DATE - 6/1/2020	REVISED -	REVISED -				FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79					

**TS 22534
 ECON 121
 LOCATION NO. 4A**

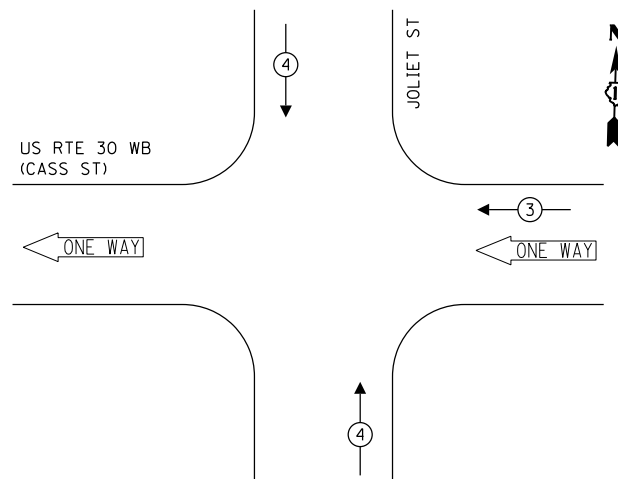
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ← * → PROTECTED PHASE
- ← * - - PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * OL → OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

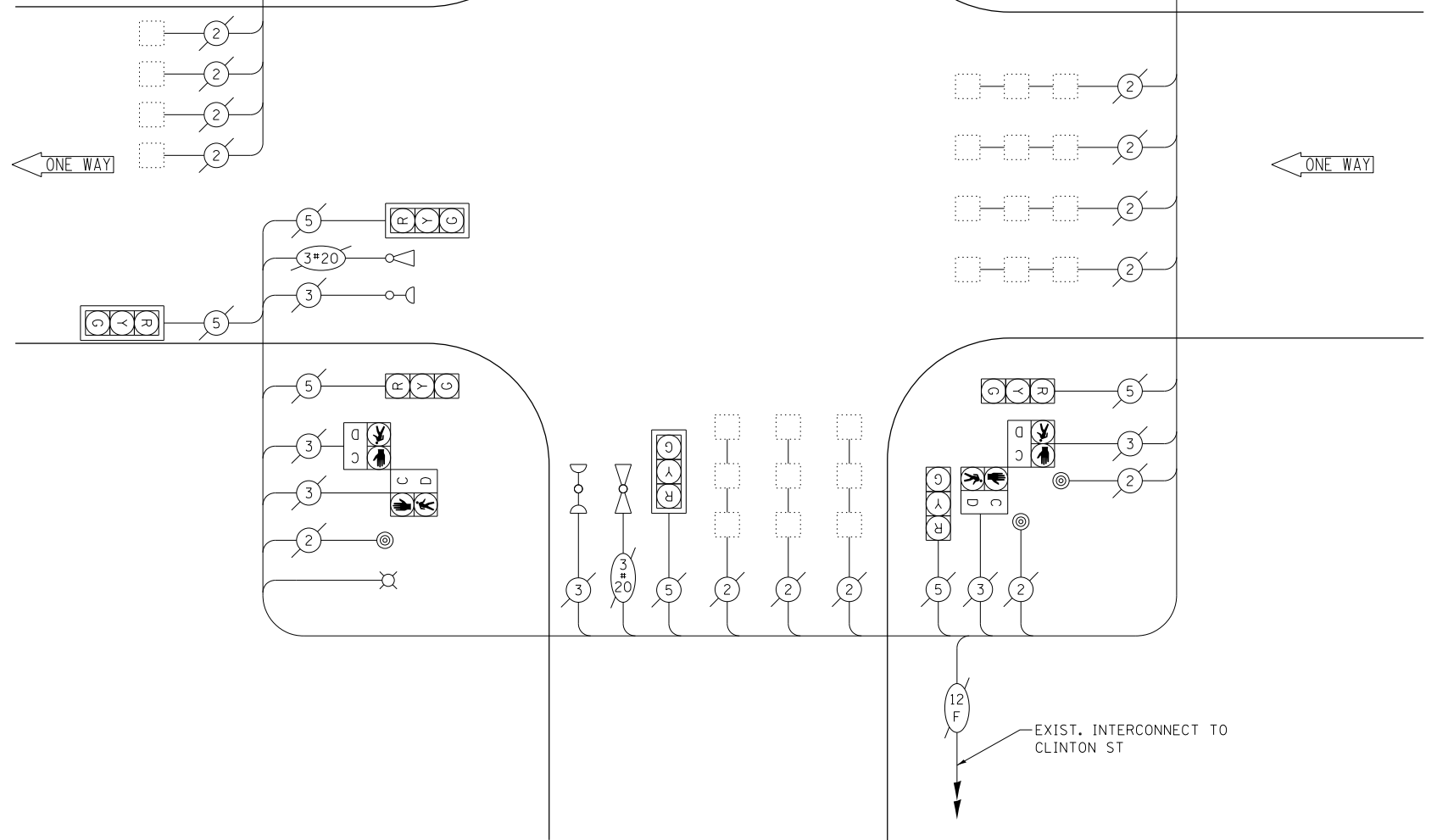
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	6	11	50	33.0
(YELLOW)	6	20	5	6.0
(GREEN)	6	12	45	32.4
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
PTZ CAMERA	-	65	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				360.4

ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:

US RTE 30 WB (CASS ST)



CABLE PLAN
(NOT TO SCALE)

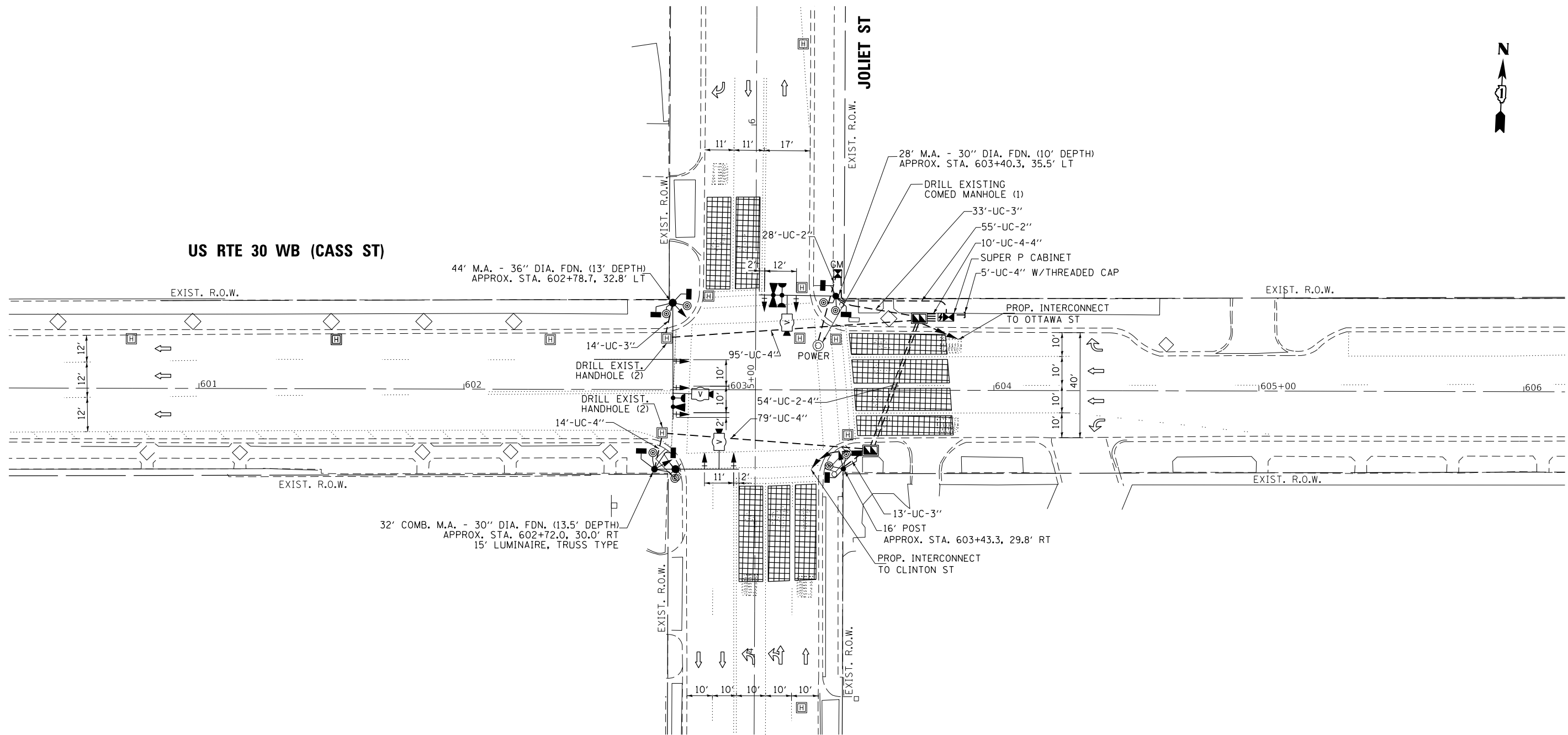
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM,
AND EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 30 WB (CASS ST) AT JOLIET ST

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	42
CONTRACT NO. 62H79				

TS 22534
ECON 121
LOCATION NO. 4A

USER NAME = \$USER\$	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 6/1/2020	REVISED -



FILE NAME = K:\PROJECTS\Projects\2018\DDOT Joliet_Roads\CADD\Sheets\23 TS_22534_03.Cass St-Joliet St-INT.dgn



GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 5035 N. NORTHWEST HIGHWAY
 SUITE 306
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

USER NAME = \$USER\$	DESIGNED - EA	REVISED -
DRAWN - EA, AV	CHECKED - PKG	REVISED -
PLOT SCALE = 40.0001' / 1"	DATE - 6/1/2020	REVISED -
PLOT DATE = \$DATE\$		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

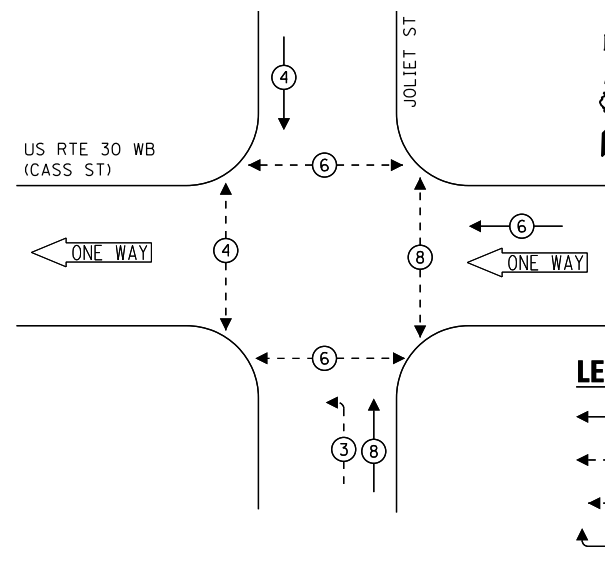
TRAFFIC SIGNAL MODERNIZATION PLAN
US RTE 30 WB (CASS ST) AT JOLIET ST

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

TS 22534
ECON 121
LOCATION NO. 4A

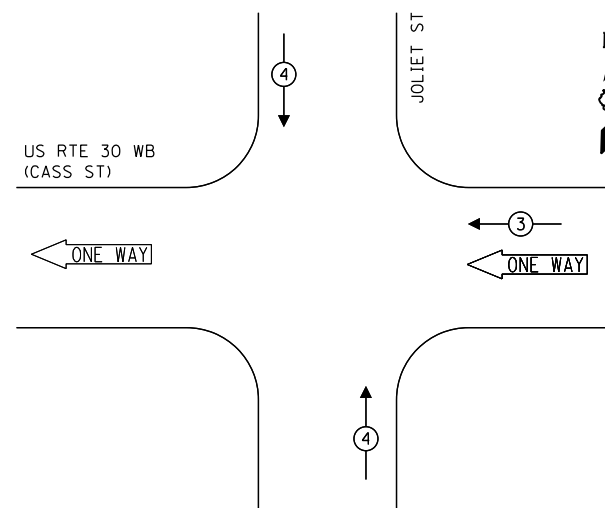
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	43
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

PROPOSED CONTROLLER SEQUENCE



- LEGEND:**
- ← * → PROTECTED PHASE
 - ← * - - → PROTECTED/PERMITTED PHASE
 - ← * → PEDESTRIAN PHASE
 - ← * OL → OVERLAP

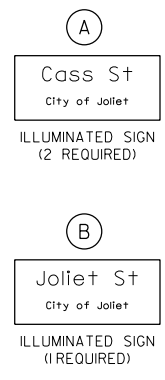
**PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55.0
(YELLOW)	10	20	5	10.0
(GREEN)	10	12	45	54.0
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	8	20	100	160.0
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	3	120	50	180.0
LUMINAIRE	2	240	50	134.0
TOTAL =				978.0

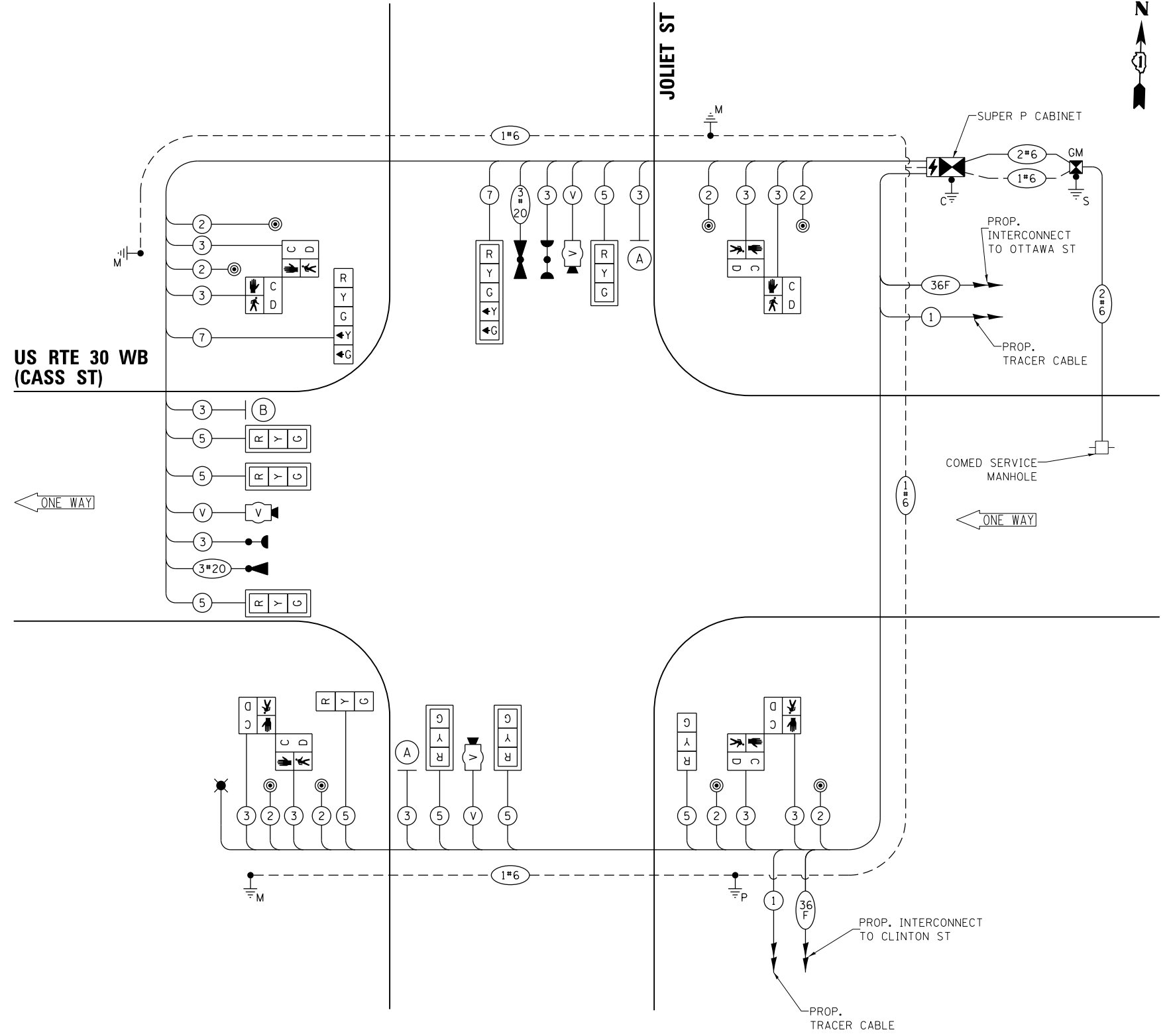
ENERGY COSTS TO:
CITY OF JOLIET
 150 W JEFFERSON STREET
 JOLIET, IL 60432
 ENERGY SUPPLY: CONTACT: ANNETTE KISALA
 PHONE: (815) 724-5328
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER:



NOTE: THE SIGNS ARE DOUBLE SIDED.

**US RTE 30 WB
(CASS ST)**

ONE WAY



CABLE PLAN
(NOT TO SCALE)

FILE NAME = K:\PROJECTS\Projects\2018\DDOT Joliet_Roads\Roads\CCOD_Sheets\23 TS_22534_04_Cass St-Joliet St-CD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
	DATE - 6/1/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 30 WB (CASS ST) AT JOLIET ST**

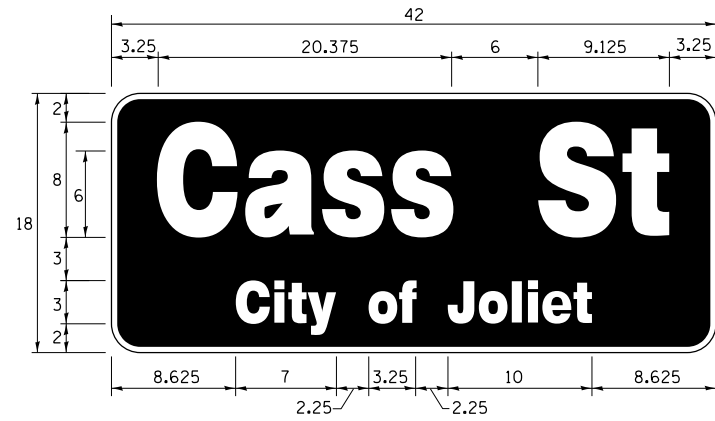
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	44
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62H79	

**TS 22534
ECON 121
LOCATION NO. 4A**

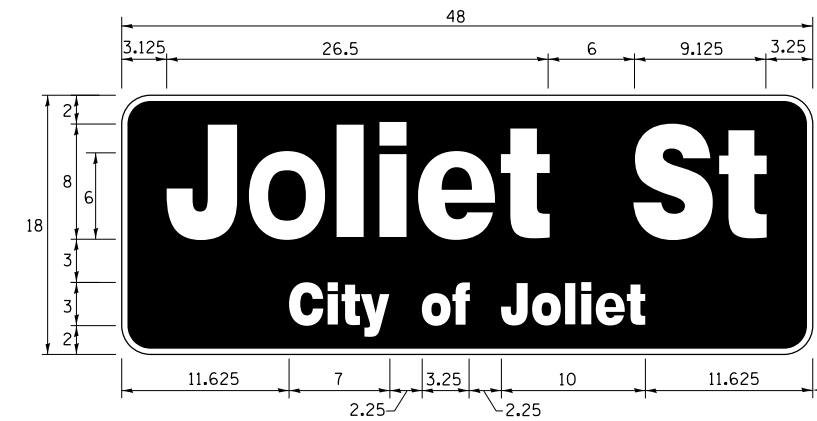
LED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	5.25	LED	N/A	2

SIGN SHALL BE DOUBLE-SIDED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	6.0	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
** ROCK EXCAVATION	CU YD	4
** DRILLED SHAFT IN ROCK	CU YD	6.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	83
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	60
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	341
DOUBLE HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1104
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1471
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1492
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	274
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	125
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	520
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	23.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
DRILL EXISTING HANDHOLE	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	7
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
* PEDESTRIAN PUSH-BUTTON	EACH	8
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	311
* LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
* SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
** DIRECTIONAL BORING THROUGH ROCK	FOOT	390
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	3
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY INFORMATION SIGNING	SO FT	25.7
* ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE S00W	FOOT	499

* 100% COST TO CITY OF JOLIET

** NOMINAL QUANTITY HAS BEEN PROVIDED FOR AREAS WHERE BED ROCK IS ENCOUNTERED WHEN DRILLING, EXCAVATING, AND/OR BORING FOR CONCRETE FOUNDATIONS, HANDHOLES, AND CONDUIT.

K:\PROJECTS\Projects 2018\DDOT Joliet Road\Road\CCDD\Sheets\23 TS-22534_05.Cass St-Joliet St-CD2.dgn



USER NAME = \$USER*	DESIGNED - EA	REVISED -
PLOT SCALE = 48.0000' / in.	CHECKED - PKG	REVISED -
PLOT DATE = \$DATE*	DATE - 6/1/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM MOUNTED LED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
US RTE 30 WB (CASS ST) AT JOLIET ST**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	45
CONTRACT NO. 62H79			FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT	

**TS 22534
ECON 121
LOCATION NO. 4A**

REMOVAL AND RELOCATION NOTES:

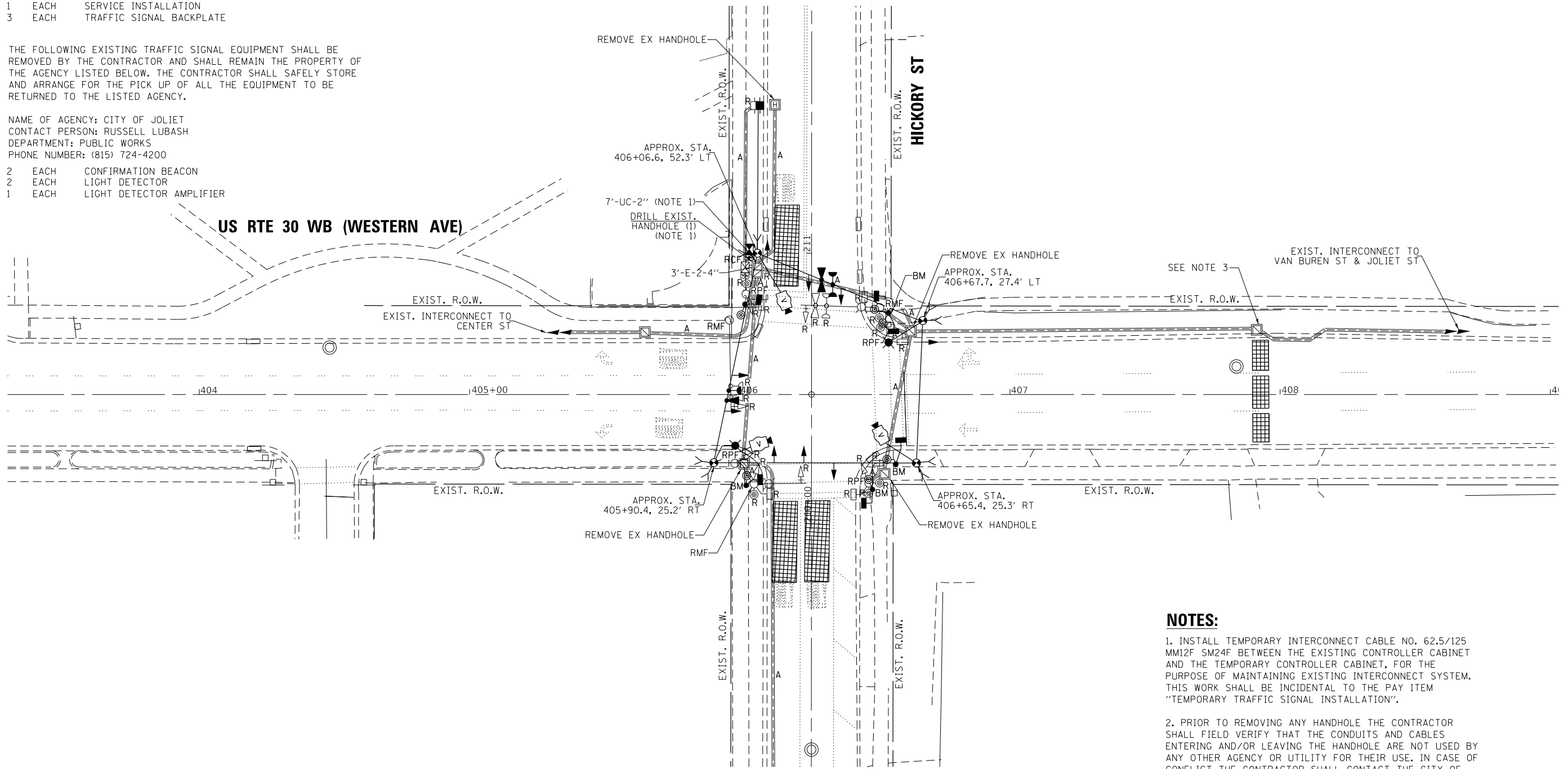
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH STEEL MAST ARM ASSEMBLY AND POST
- 2 EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POST
- 4 EACH TRAFFIC SIGNAL POST
- 7 EACH 3-SECTION SIGNAL HEAD
- 6 EACH PEDESTRIAN SIGNAL HEAD
- 6 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION
- 3 EACH TRAFFIC SIGNAL BACKPLATE

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 THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: CITY OF JOLIET
 CONTACT PERSON: RUSSELL LUBASH
 DEPARTMENT: PUBLIC WORKS
 PHONE NUMBER: (815) 724-4200

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

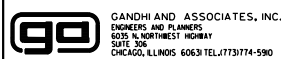


NOTES:

1. INSTALL TEMPORARY INTERCONNECT CABLE NO. 62.5/125 MM12F SM24F BETWEEN THE EXISTING CONTROLLER CABINET AND THE TEMPORARY CONTROLLER CABINET, FOR THE PURPOSE OF MAINTAINING EXISTING INTERCONNECT SYSTEM. THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
2. PRIOR TO REMOVING ANY HANDHOLE THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONDUITS AND CABLES ENTERING AND/OR LEAVING THE HANDHOLE ARE NOT USED BY ANY OTHER AGENCY OR UTILITY FOR THEIR USE. IN CASE OF CONFLICT THE CONTRACTOR SHALL CONTACT THE CITY OF JOLIET AND THE BUREAU OF TRAFFIC FOR FURTHER DIRECTION.
3. DISCONNECT THE EXISTING FIBER AND TRACER CABLES FROM THE EXISTING CONTROLLER CABINET ON THE NORTHWEST QUADRANT OF US RTE 30 (WESTERN AVE) AT HICKORY ST AND PULL THEM BACK TO THIS HANDHOLE. SEE PROPOSED INTERCONNECT PLANS FOR MORE INFORMATION.



K:\PROJECTS\Projects 2018\DOT Joliet_Roads\CADD_Sheets\24 TS_22533_01_Western Ave-Hickory St-TEMP_INT.dgn



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PLOT DATE = \$DATE\$		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

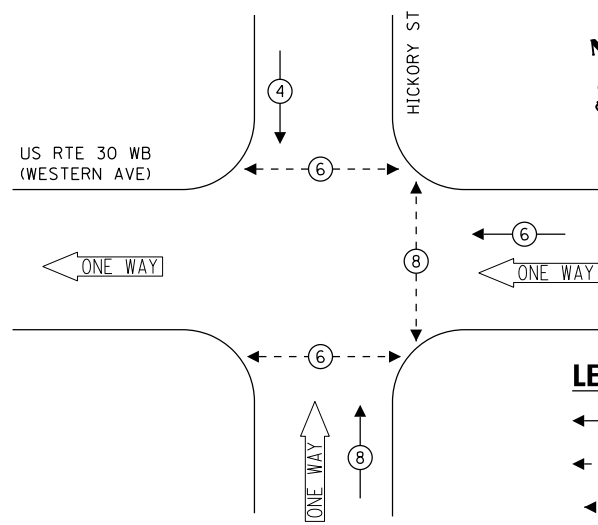
**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
 US RTE 30 WB (WESTERN AVE) AT HICKORY ST**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	46
CONTRACT NO. 62H79			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT	

**TS 22533
 ECON 121
 LOCATION NO. 5A**

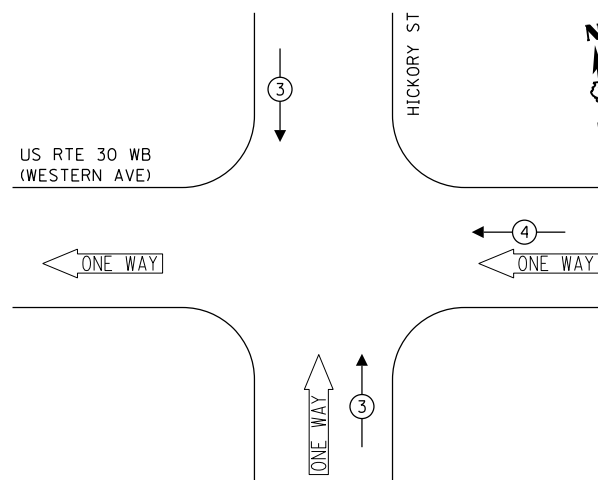
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← (⊙) ← PROTECTED PHASE
- ← (⊙) ← PROTECTED/PERMITTED PHASE
- ← (⊙) ← PEDESTRIAN PHASE
- ← (OL) ← OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



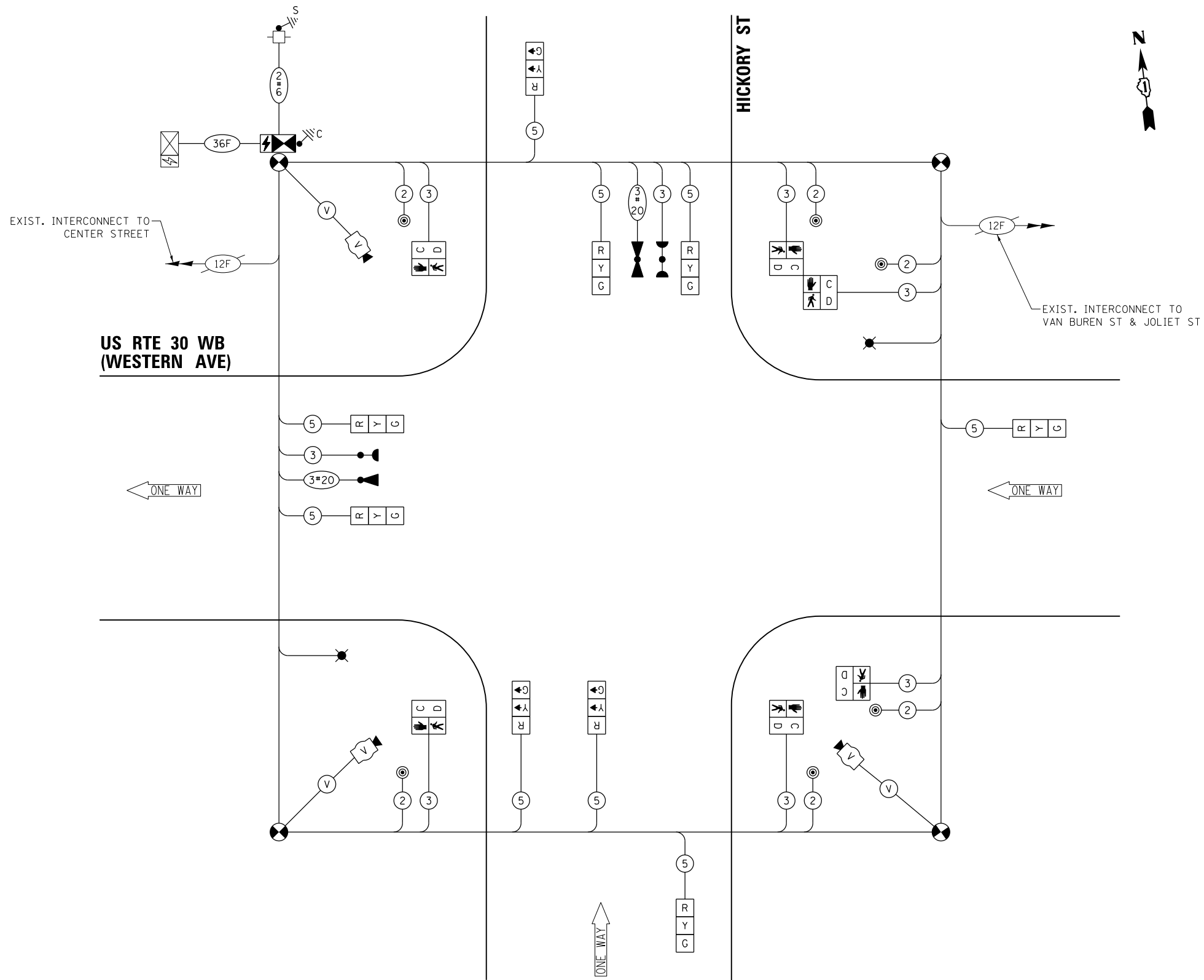
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	11	50	49.5
(YELLOW)	9	20	5	6.0
(GREEN)	9	12	45	48.6
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
PTZ CAMERA	-	65	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	268	50	268.0
			TOTAL =	767.1

ENERGY COSTS TO:

CITY OF JOLIET
150 W. JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:



CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 30 WB (WESTERN AVE) AT HICKORY ST

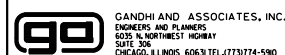
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	47
			CONTRACT NO. 62H79	

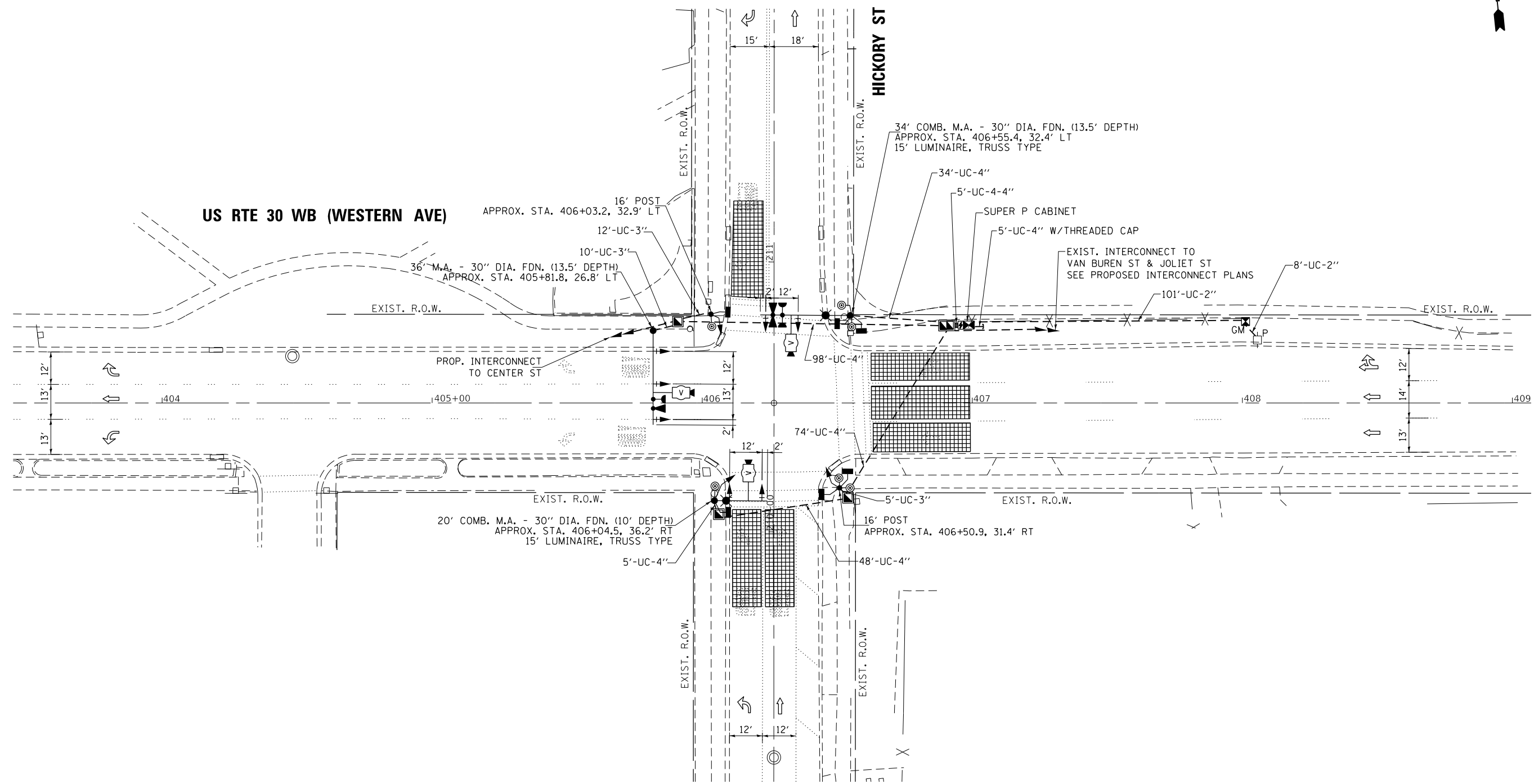
TS 22533
ECON 121
LOCATION NO. 5A

FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT

FILE NAME = K:\PROJECTS\Projects 2018\DOT Joliet_Roads\Roads\CCOD_Sheets\24 TS_22533_02_Western Ave-Hickory St_TEMP_CD.dgn



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	DATE - 6/1/2020	REVISED -



GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 5035 N. NORTHWEST HIGHWAY
 SUITE 205
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

USER NAME = \$USER\$	DESIGNED - EA	REVISED -
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CHECKED - PKG	REVISIONS -	
DATE - 6/1/2020	REVISIONS -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

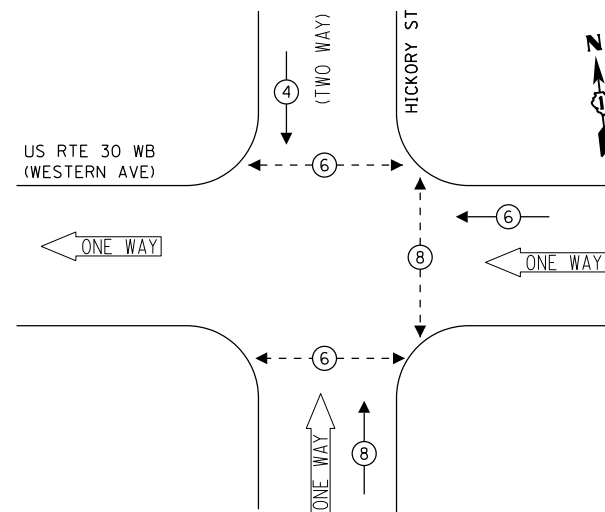
TRAFFIC SIGNAL MODERNIZATION PLAN
US RTE 30 WB (WESTERN AVE) AT HICKORY ST

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	48
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 22533
ECON 121
LOCATION NO. 5A

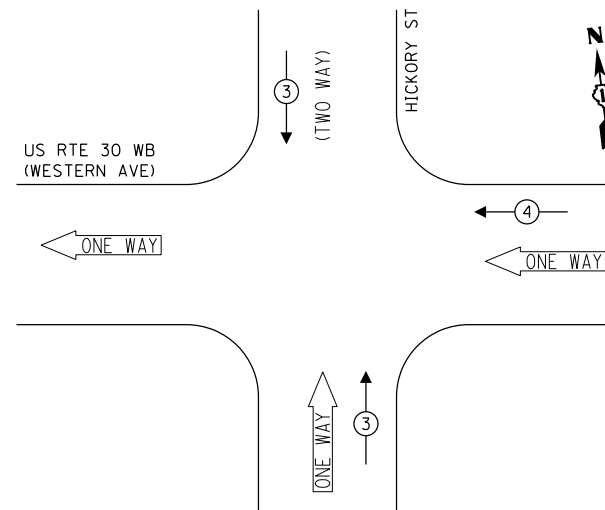
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

PROPOSED CONTROLLER SEQUENCE



- LEGEND:**
- ⊙ (with arrow) PROTECTED PHASE
 - ⊙ (with double arrow) PROTECTED/PERMITTED PHASE
 - ⊙ (with pedestrian symbol) PEDESTRIAN PHASE
 - ⊙ (with OL symbol) OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55.0
(YELLOW)	10	20	5	10.0
(GREEN)	10	12	45	54.0
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	6	20	100	120.0
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	3	120	50	180.0
LUMINAIRE	2	240	50	240.0
TOTAL =				934.0

ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:

(A)
Western Ave
City of Joliet
ILLUMINATED SIGN
(2 REQUIRED)

(B)
Hickory St
City of Joliet
ILLUMINATED SIGN
(1 REQUIRED)

NOTE: THE SIGNS ARE DOUBLE SIDED.

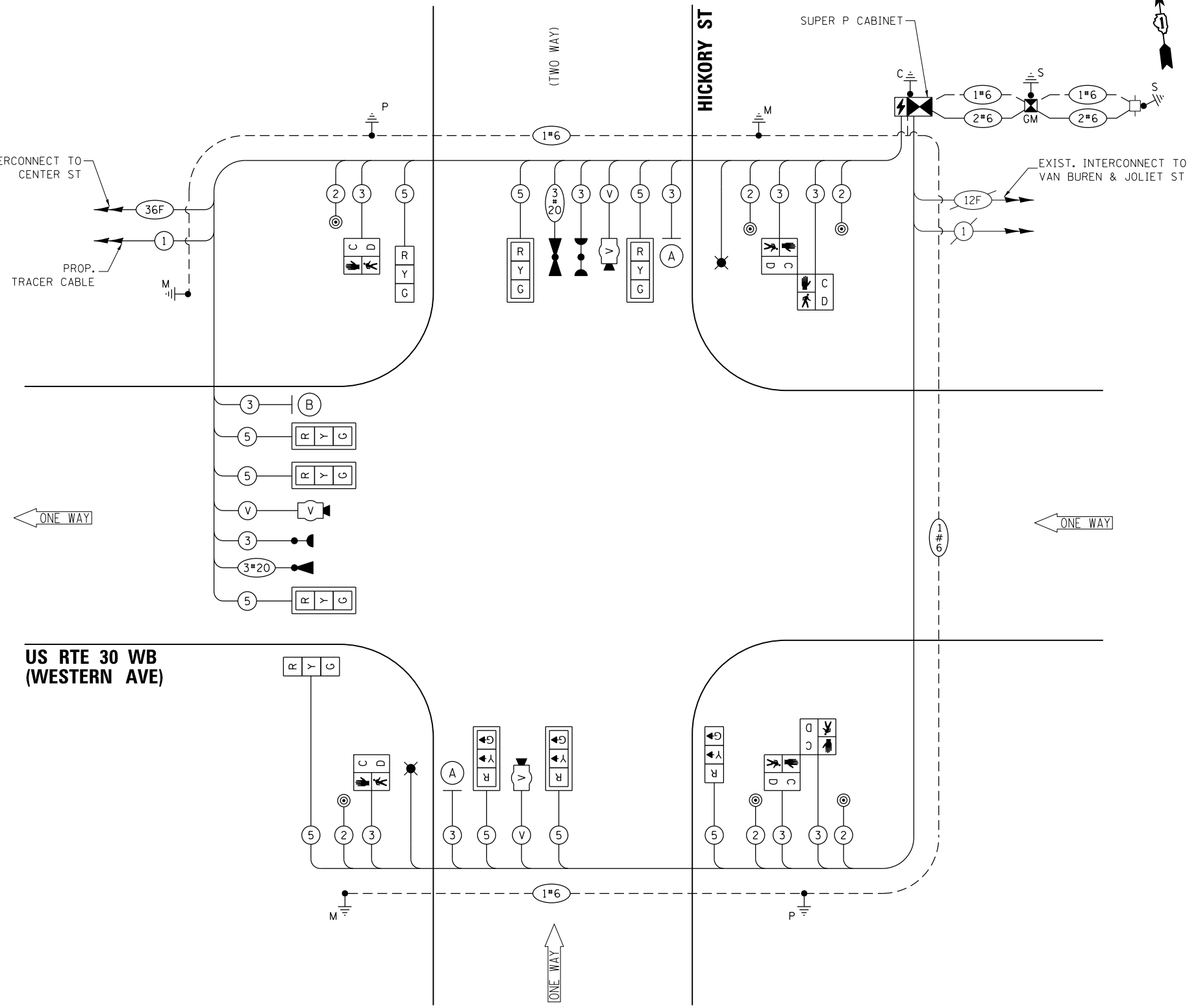
PROP. INTERCONNECT TO CENTER ST

PROP. TRACER CABLE

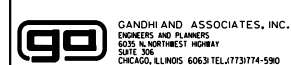
ONE WAY

US RTE 30 WB
(WESTERN AVE)

CABLE PLAN
(NOT TO SCALE)



FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet_Roads\Roads\CCOD_Sheets\24 TS_22533_04_Western Ave-Hickory St.Cddgn



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

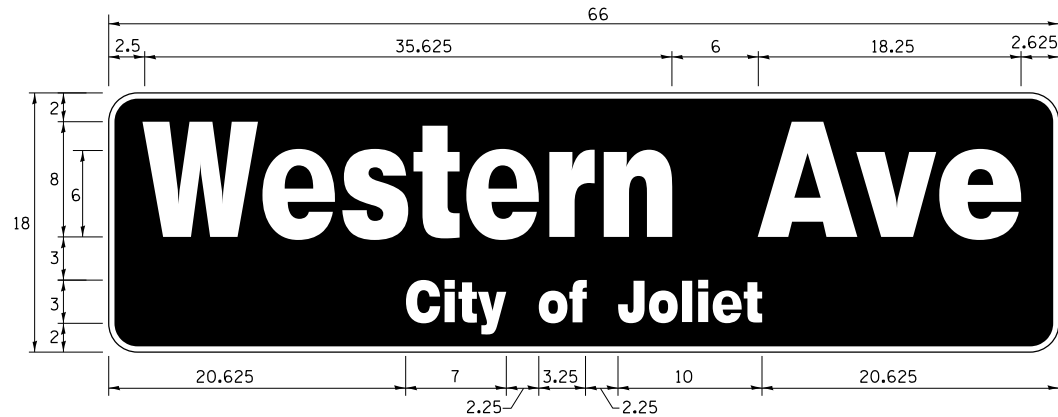
CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 30 WB (WESTERN AVE) AT HICKORY ST
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	49
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62H79	

TS 22533
ECON 121
LOCATION NO. 5A

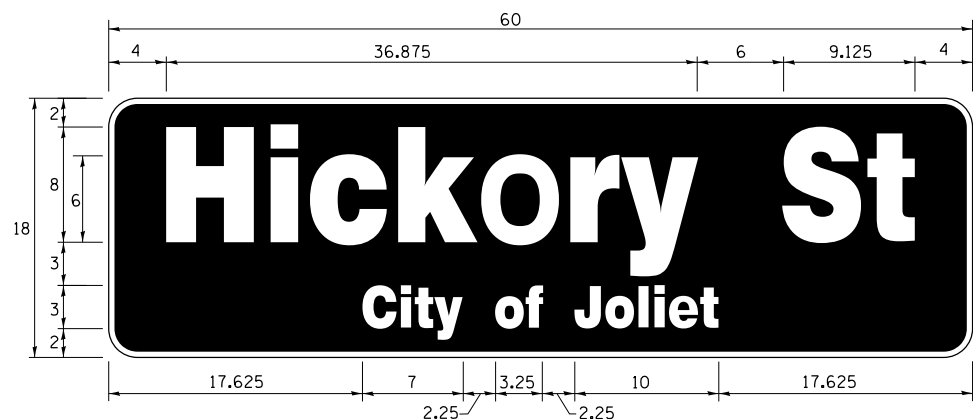
LED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	8.25	LED	N/A	2

SIGN SHALL BE DOUBLE-SIDED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	7.5	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
** ROCK EXCAVATION	CU YD	5
** DRILLED SHAFT IN ROCK	CU YD	8
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	109
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	27
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	284
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	846
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1041
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1615
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	159
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	540
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 20 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	37
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	7
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	6
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	4
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	295
* LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
** DIRECTIONAL BORING THROUGH ROCK	FOOT	340
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	3
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY INFORMATION SIGNING	SO FT	25.7
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
* ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE S00W	FOOT	452

* 100% COST TO CITY OF JOLIET

** NOMINAL QUANTITY HAS BEEN PROVIDED FOR AREAS WHERE BED ROCK IS ENCOUNTERED WHEN DRILLING, EXCAVATING, AND/OR BORING FOR TEMPORARY WOOD POLES, CONCRETE FOUNDATIONS, HANDHOLES, AND CONDUIT.

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ENGINEERS AND PLANNERS
5015 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

USER NAME = \$USER*	DESIGNED - EA	REVISED -
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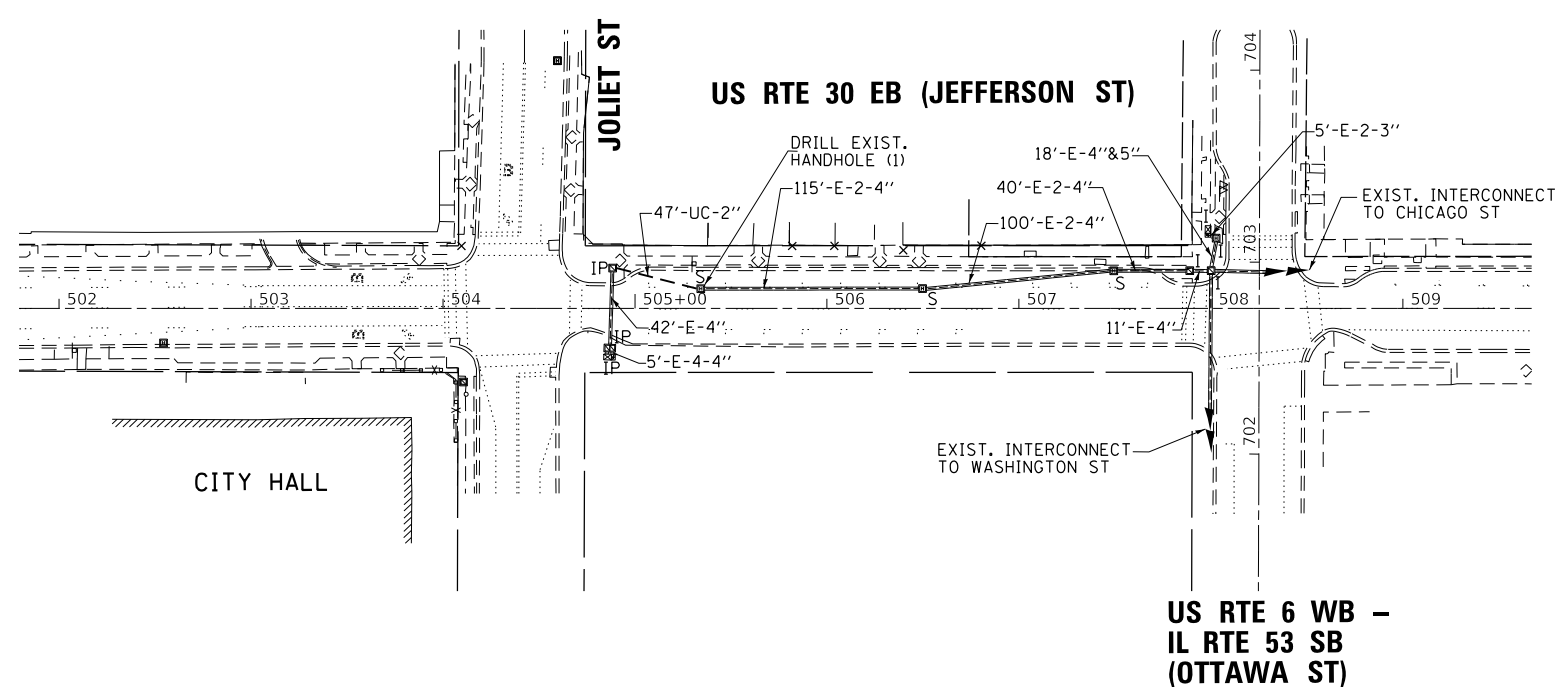
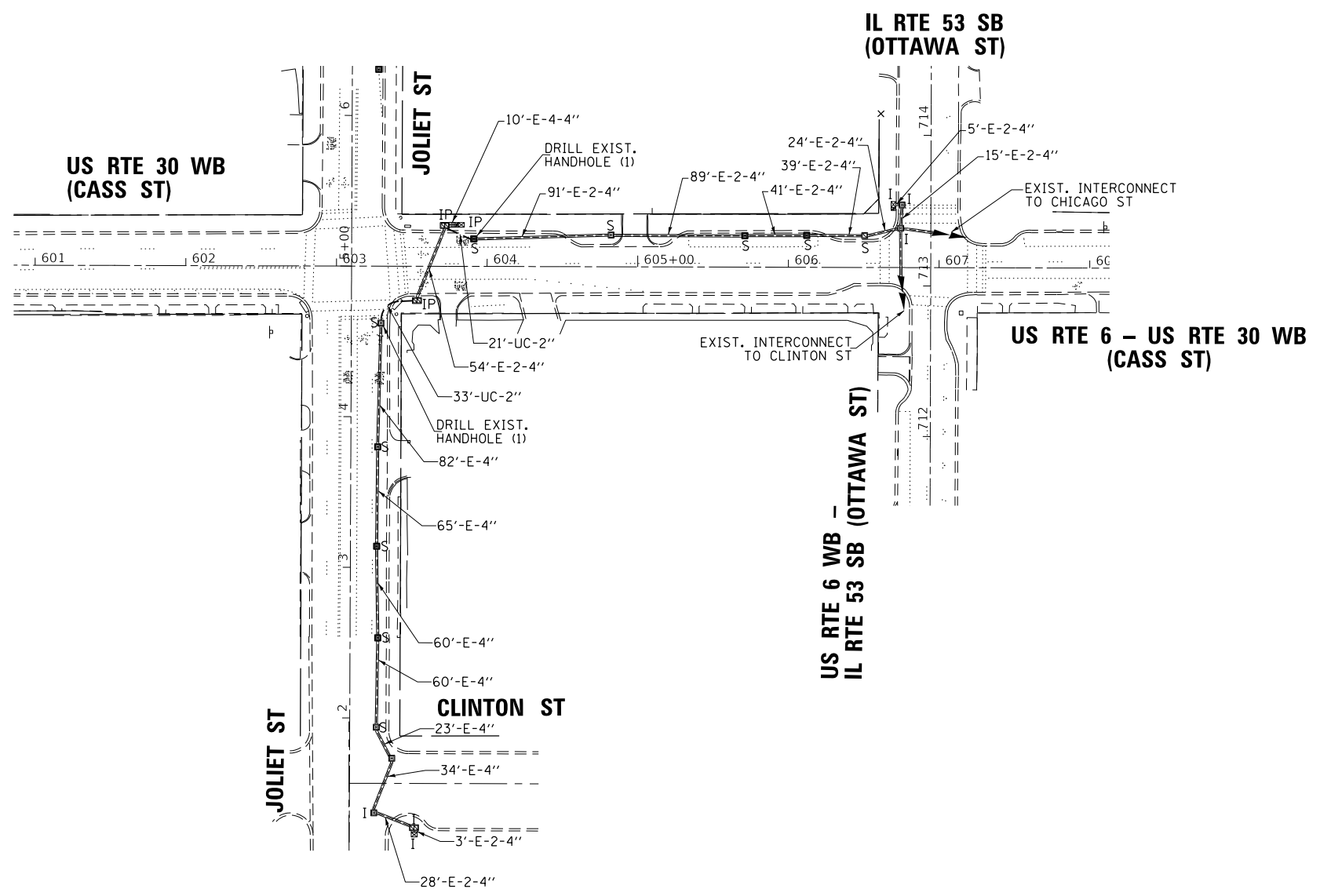
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED LED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
US RTE 30 WB (WESTERN AVE) AT HICKORY ST

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	50
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62H79	

TS 22533
ECON 121
LOCATION NO. 5A



FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet.Roads\CADD_Sheets\51_TS_21802_Interconnect_1.dgn
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 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 306
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

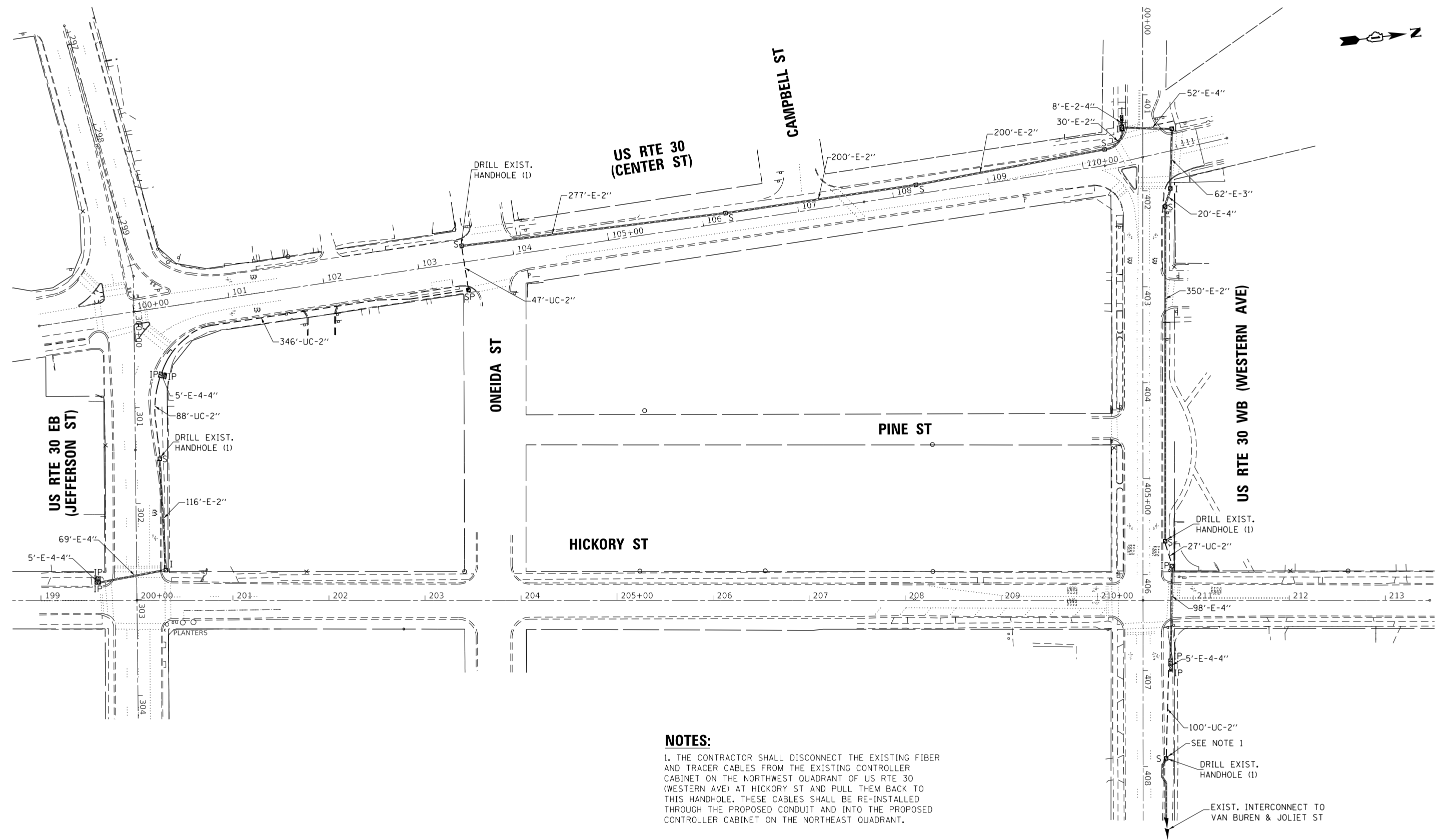
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PLOT DATE = \$DATE*	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN (SHEET 1 OF 2) DOWNTOWN JOLIET			
SCALE: 1"=50'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2018-141-TS&I	WILL	68	51
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79	

ECON 121



NOTES:

1. THE CONTRACTOR SHALL DISCONNECT THE EXISTING FIBER AND TRACER CABLES FROM THE EXISTING CONTROLLER CABINET ON THE NORTHWEST QUADRANT OF US RTE 30 (WESTERN AVE) AT HICKORY ST AND PULL THEM BACK TO THIS HANDHOLE. THESE CABLES SHALL BE RE-INSTALLED THROUGH THE PROPOSED CONDUIT AND INTO THE PROPOSED CONTROLLER CABINET ON THE NORTHEAST QUADRANT.

EXIST. INTERCONNECT TO VAN BUREN & JOLIET ST

FILE NAME = K:\PROJECTS\Projects\2018\DOT Joliet Roads\CADD_Sheets\51_TS_21802_Interconnect_2.dgn
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 ENGINEERS AND PLANNERS
 5035 N. NORTHWEST HIGHWAY
 SUITE 306
 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

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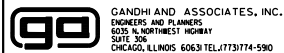
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN (SHEET 2 OF 2)			
DOWNTOWN JOLIET			
SCALE: 1"=50'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2018-141-TS&I	WILL	68	52
			CONTRACT NO. 62H79	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

ECON 121

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PLOT DATE = \$DATE\$	DATE - 6/1/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT SCHEMATIC
(SHEET 1 OF 3)**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2018-141-TS&I	WILL	68	53
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79	

ECON 121, 122 & 123

NOTE:
THE SCAT CONSULTANT WILL
DETERMINE THE LOCATION OF
THE SYSTEM DETECTORS.



MATCH LINE "A" SEE SHEET 2 OF 3



SEE SHEET 3 OF 3
MATCH LINE "B"



MATCH LINE "A" SEE SHEET 1 OF 3

NOTE:
THE SCAT CONSULTANT WILL
DETERMINE THE LOCATION OF
THE SYSTEM DETECTORS.

ECON 121, 122 & 123

FILE NAME = K:\PROJECTS\Projects 2018\DOT Joliet Roads\CADD_Sheets\61.TS_21802_Schem_Interconnect_2.dgn



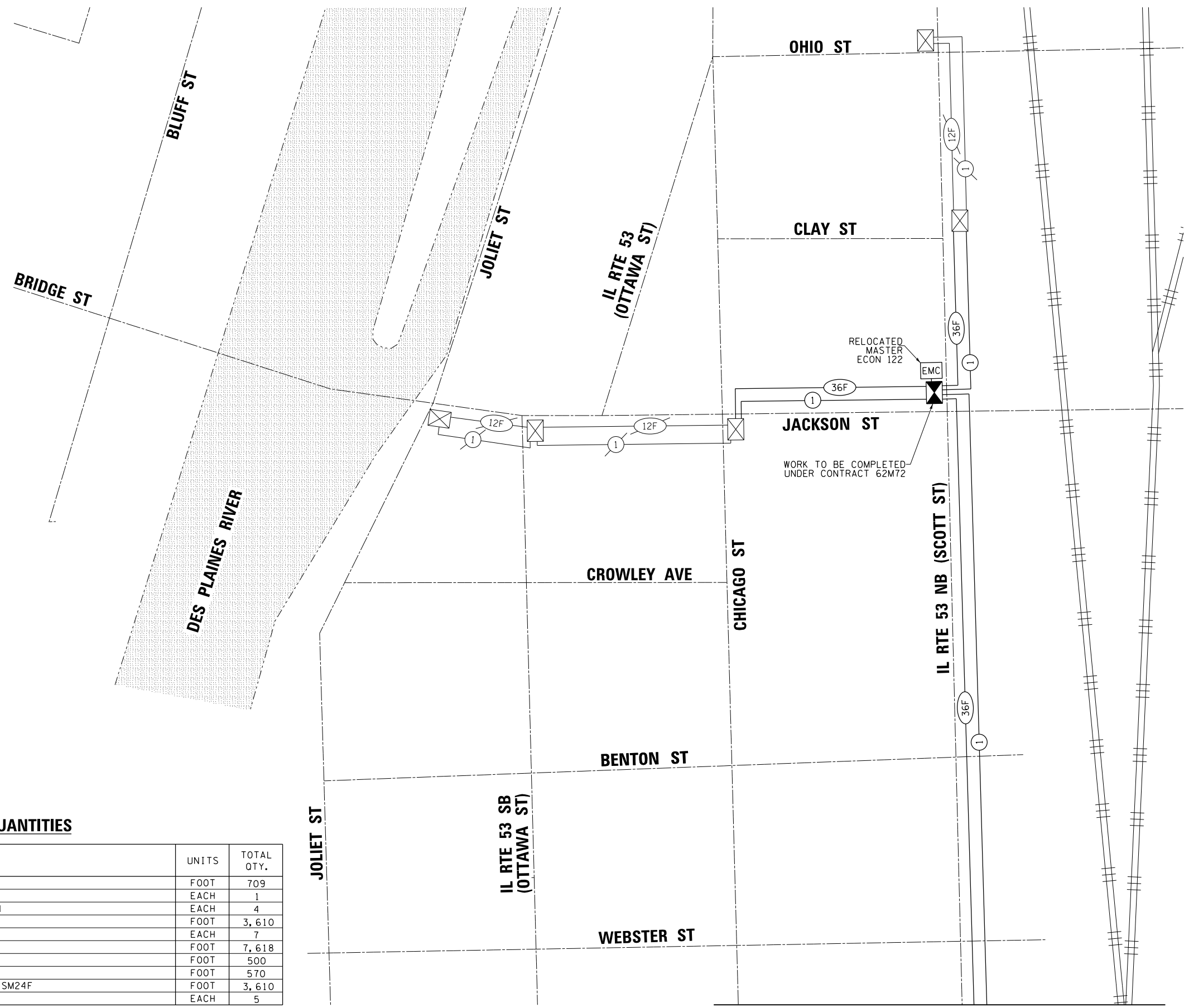
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PLOT DATE = \$DATE*	CHECKED - PKG	REVISED -
	DATE - 6/1/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT SCHEMATIC
(SHEET 2 OF 3)**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2018-141-TS&I	WILL	68	54
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79	



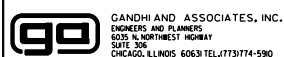
NOTE:
THE SCAT CONSULTANT WILL
DETERMINE THE LOCATION OF
THE SYSTEM DETECTORS.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	709
HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3,610
DRILL EXISTING HANDHOLE	EACH	7
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7,618
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	500
** DIRECTIONAL BORING THROUGH ROCK	FOOT	570
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	3,610
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	5

** NOMINAL QUANTITY HAS BEEN PROVIDED FOR AREAS WHERE BED ROCK IS ENCOUNTERED WHEN BORING FOR CONDUIT.

FILE NAME = K:\PROJECTS\Projects 2018\DOT Joliet Roads\CADD_Sheets\11.15.21\B02_Schem_Interconnect_3.dgn



GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

USER NAME = \$USER\$	DESIGNED - EA	REVISED -
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PLOT SCALE = 200.0000' / 1" =	CHECKED - PKG	REVISED -
PLOT DATE = \$DATE\$	DATE - 6/1/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES
(SHEET 3 OF 3)**

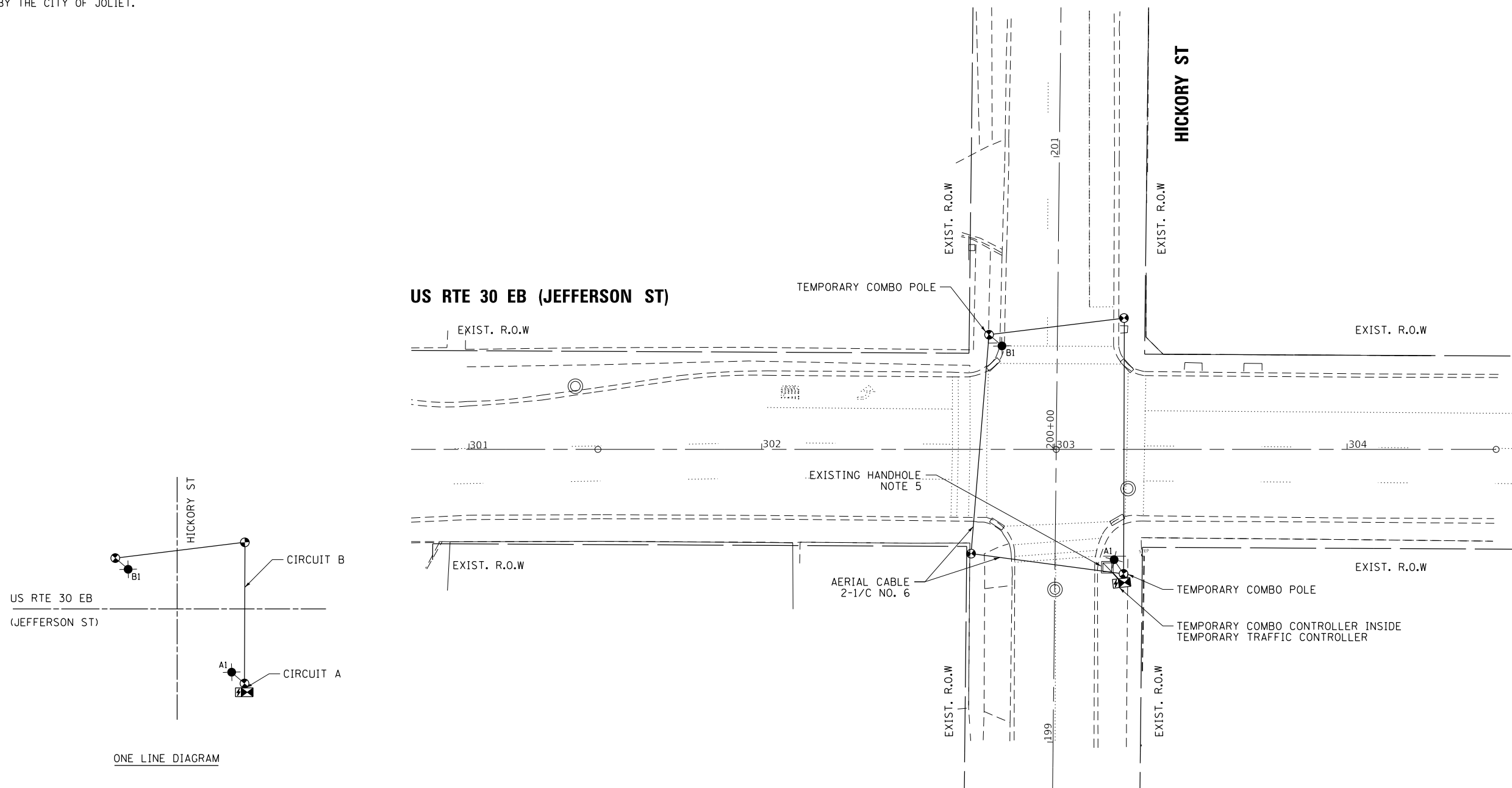
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2018-141-TS&I	WILL	68	55
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H79	

ECON 121, 122 & 123

MATCH LINE "B"
SEE SHEET 2 OF 3

THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.



NOTES:

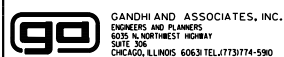
1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
4. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
5. THE EXISTING LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE TEMPORARY COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. AFTER THE TEMPORARY COMBINATION LIGHTING IS OPERATIONAL, THE EXISTING COMBINATION LIGHT CAN BE DISCONNECTED FROM THE EXISTING LIGHTING CIRCUIT, THE REST OF THE LIGHTING CIRCUIT AND SYSTEM MUST REMAIN INTACT. THIS WORK SHALL BE PAID FOR AS CABLE SPLICE SPECIAL. SEE SHEET 23A FOR SPLICE DETAILS.
6. THE TEMPORARY COMBINATION LIGHTING CONTROLLER SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
AERIAL CABLE, 2-1/C NO. 6 WITH MESSENGER WIRE	FOOT	273
CABLE SPLICE SPECIAL	EACH	1
LUMINAIRE, LED, SPECIAL	EACH	2
TEMPORARY MAST ARM, ALUMINUM, 15FT	EACH	2
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	2

LOCATION NO. 2A

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GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 206
CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

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	DRAWN - SA	REVISED -
PLOT SCALE = 40.0000' / 1" =	CHECKED - MA	REVISED -
PLOT DATE = \$DATE\$	DATE - 6/1/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

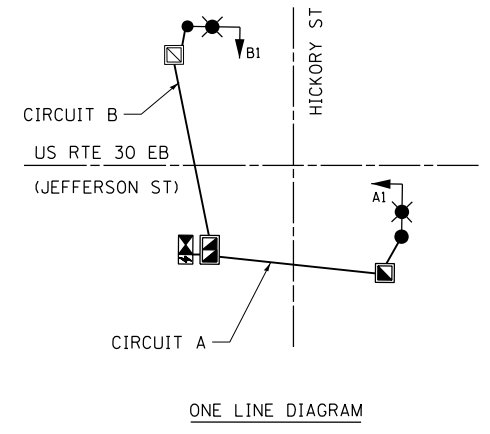
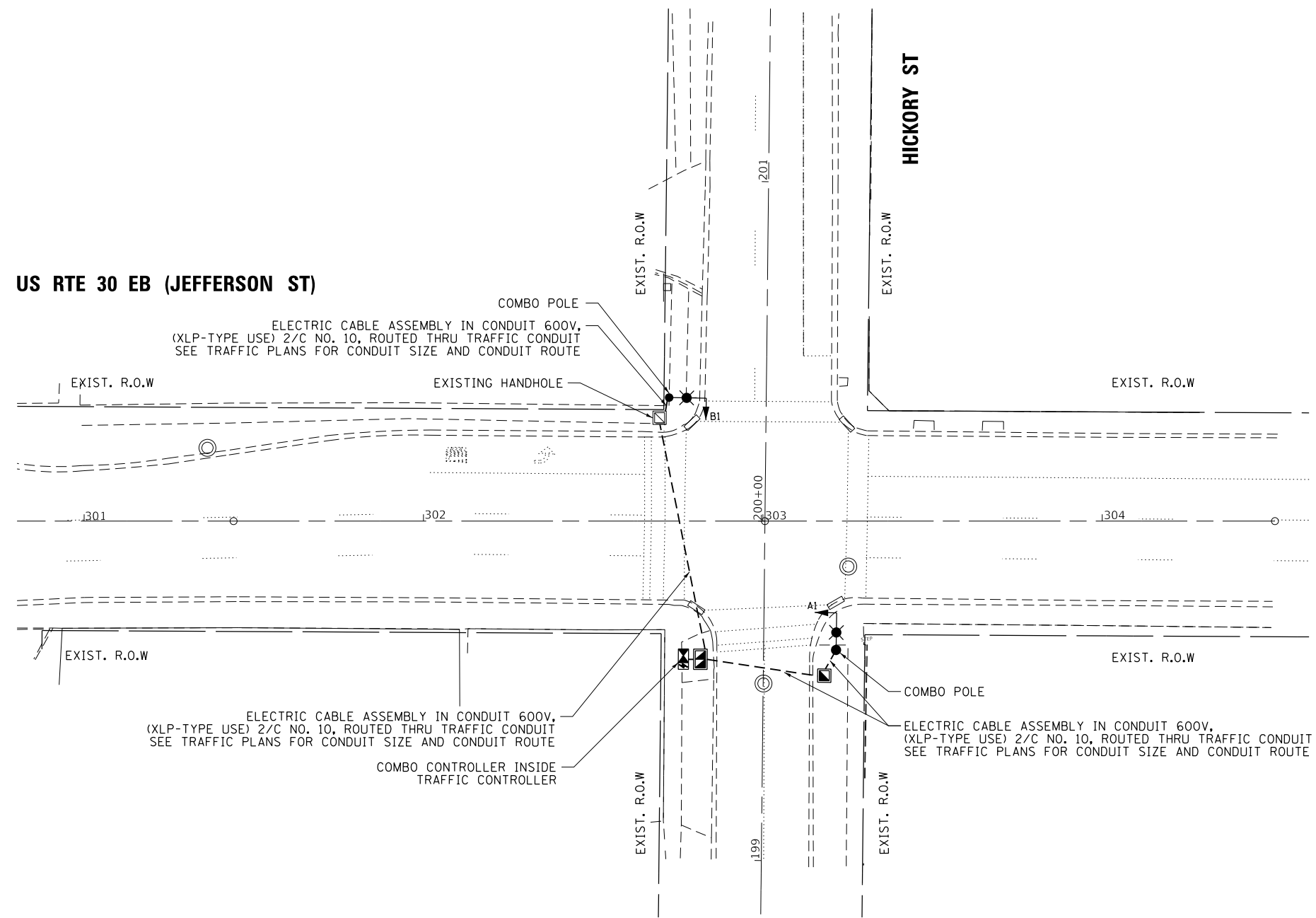
**TEMPORARY LIGHTING COMBINATION POLE PLAN
US RTE 30 EB (JEFFERSON ST) AT HICKORY ST**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	56
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

COMBINATION LIGHT POLE
 45 FT. LUMINAIRE MOUNTING HEIGHT
 15 FT. LUMINAIRE MAST ARM
 LUMINAIRE, PHILIPS LED, 240W

THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.



NOTES:

1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
6. THE TEMPORARY LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE NEW COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM, MAINTENANCE OF LIGHTING SYSTEM.

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600 V, (XLP-TYPE USE) 1/C NO. 10	FOOT	636
LUMINAIRE, LED, SPECIAL	FOOT	2
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	2

LOCATION NO. 2A

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	USER NAME = \$USER\$	DESIGNED - MA	REVISED -
	DRAWN - SA	REVISIONS	REVISED -
	PLOT SCALE = 40.0000' / 1" =	CHECKED - MA	REVISED -
	PLOT DATE = \$DATE\$	DATE - 6/1/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING COMBINATION POLE PLAN
 US RTE 30 EB (JEFFERSON ST) AT HICKORY ST**

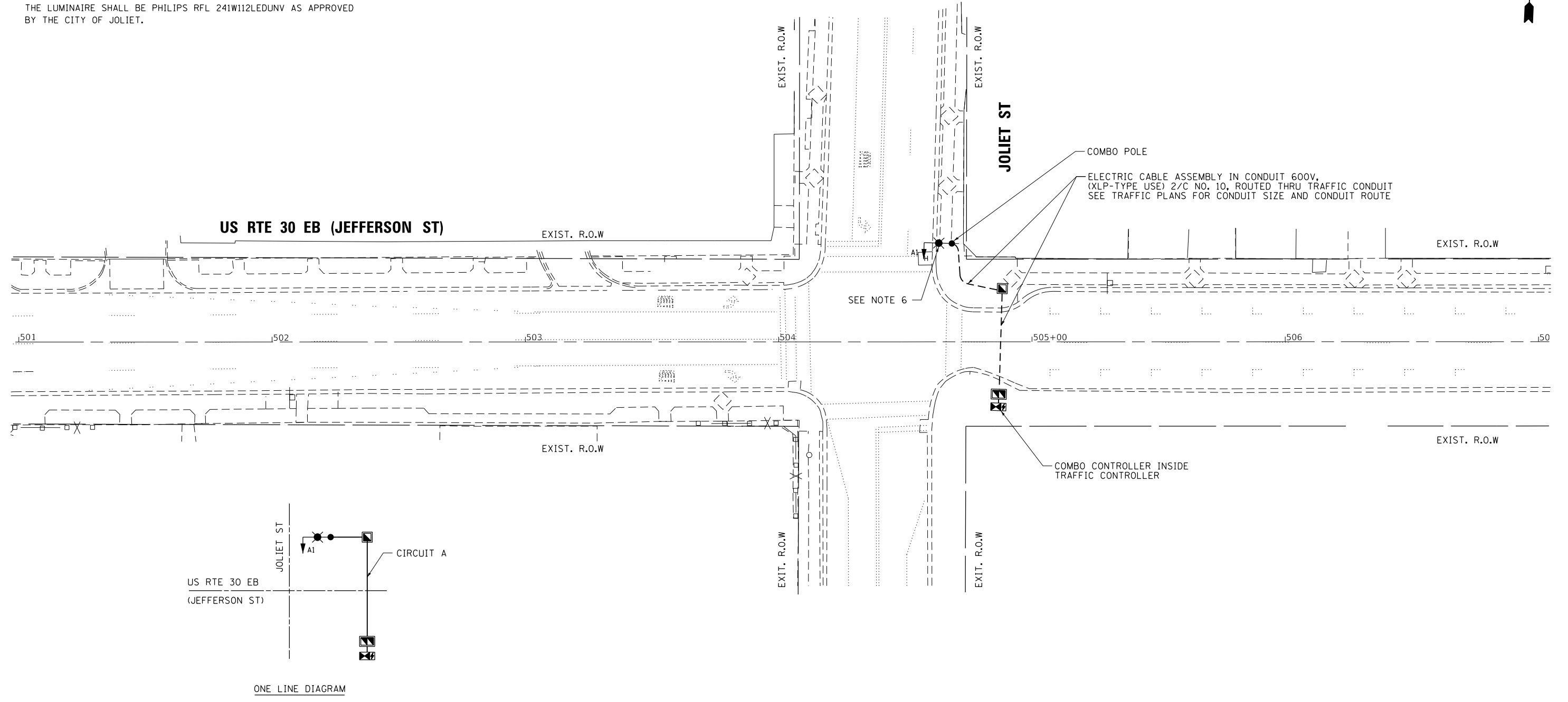
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	57
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				



COMBINATION LIGHT POLE
 45 FT. LUMINAIRE MOUNTING HEIGHT
 15 FT. LUMINAIRE MAST ARM
 LUMINAIRE, PHILIPS LED, 240W

THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.



NOTES:

1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
6. THE EXISTING LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE NEW COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. AFTER THE NEW COMBINATION LIGHTING IS OPERATIONAL, THE EXISTING COMBINATION LIGHT CAN BE DISCONNECTED FROM THE EXISTING LIGHTING CIRCUIT. THE REST OF THE LIGHTING CIRCUIT AND SYSTEM MUST REMAIN INTACT. THIS WORK SHALL BE PAID FOR AS CABLE SPLICE SPECIAL. SEE SHEET 23A FOR SPLICE DETAILS.

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600 V, (XLP-TYPE USE) 1/C NO. 10	FOOT	341
CABLE SPLICE SPECIAL	EACH	1
LUMINAIRE, LED, SPECIAL	EACH	1
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	1

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<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 208 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590</p>	USER NAME = \$USER\$	DESIGNED - MA	REVISED -
	PLOT SCALE = 40.0001' / 1" =	CHECKED - MA	REVISED -
	PLOT DATE = \$DATE\$	DATE - 6/1/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING COMBINATION POLE PLAN
 US RTE 30 EB (JEFFERSON ST) AT JOLIET ST**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

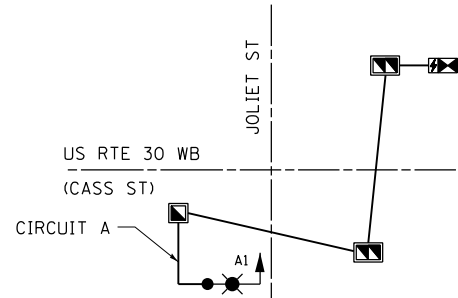
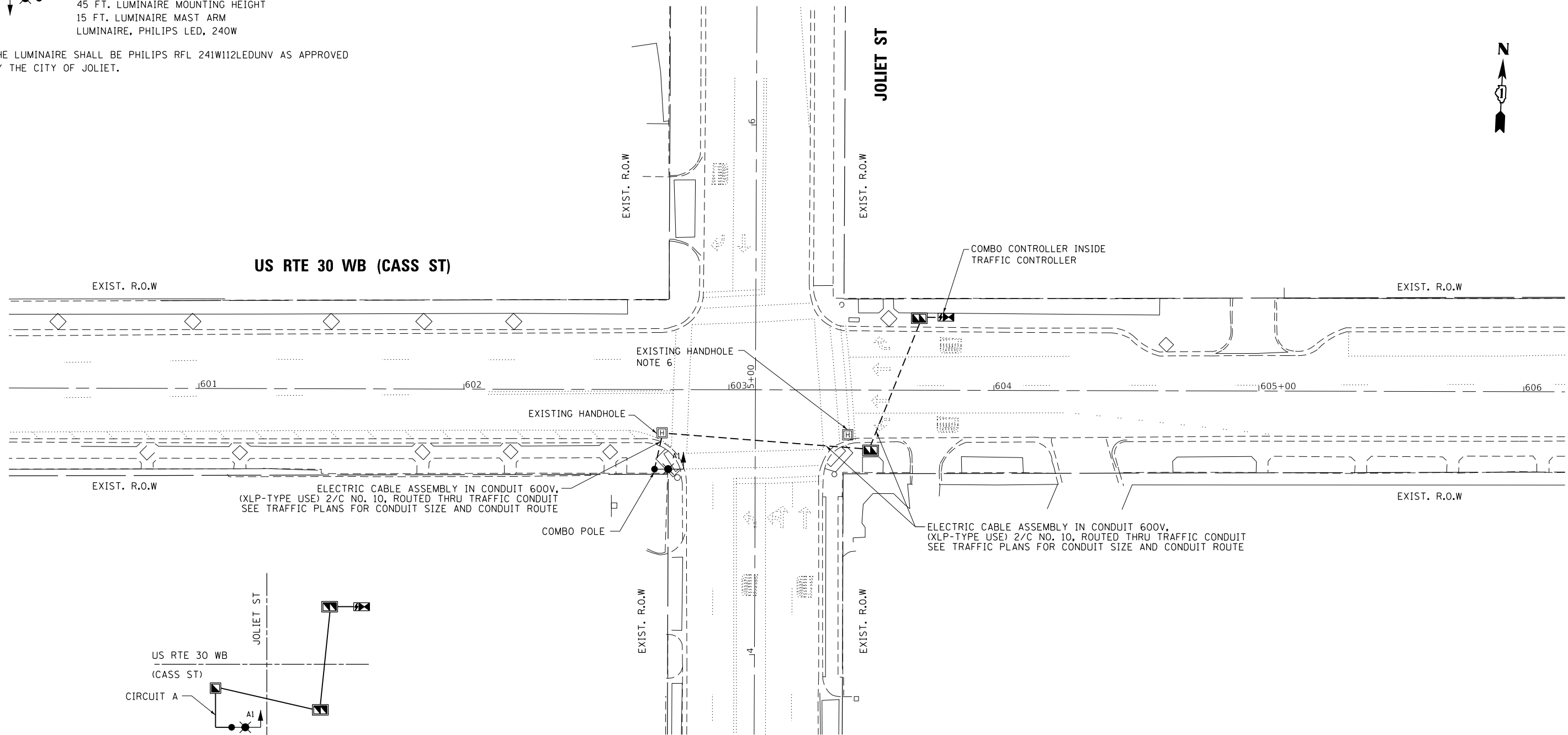
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	58
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

LOCATION NO. 3A



COMBINATION LIGHT POLE
 45 FT. LUMINAIRE MOUNTING HEIGHT
 15 FT. LUMINAIRE MAST ARM
 LUMINAIRE, PHILIPS LED, 240W

THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.



ONE LINE DIAGRAM

NOTES:

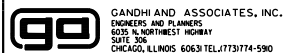
1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
6. THE EXISTING LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE NEW COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. AFTER THE NEW COMBINATION LIGHTING IS OPERATIONAL, THE EXISTING COMBINATION LIGHT CAN BE DISCONNECTED FROM THE EXISTING LIGHTING CIRCUIT IN THIS EXISTING HANDHOLE. THE REST OF THE LIGHTING CIRCUIT AND SYSTEM MUST REMAIN INTACT. THIS WORK SHALL BE PAID FOR AS CABLE SPLICE SPECIAL. SEE SHEET 23A FOR SPLICE DETAILS.

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600 V, (XLP-TYPE USE) 1/C NO. 10	FOOT	523
CABLE SPLICE SPECIAL	EACH	1
LUMINAIRE, LED, SPECIAL	EACH	1
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	1

LOCATION NO. 4A

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USER NAME = \$USER\$	DESIGNED - MA	REVISED -
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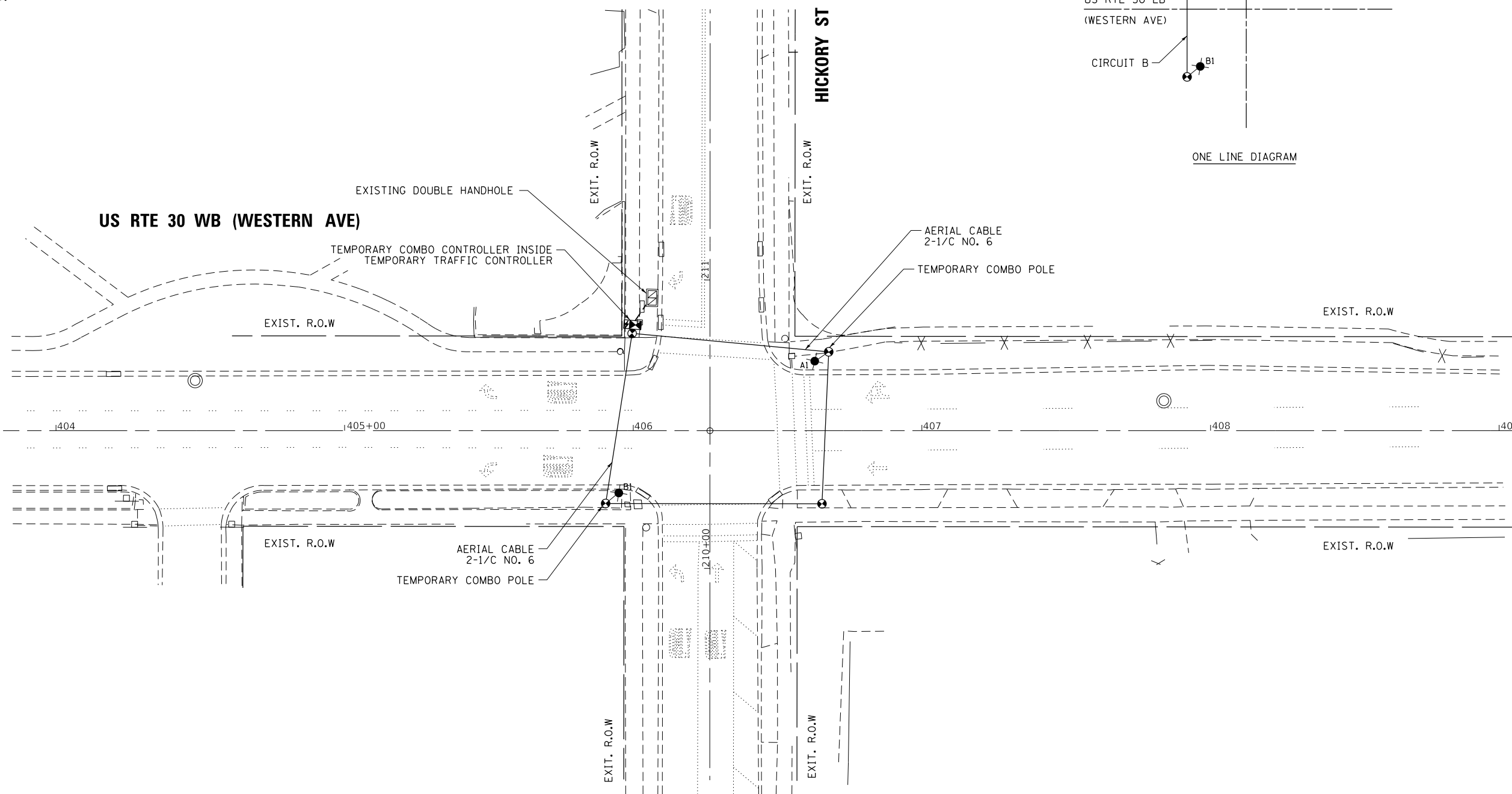
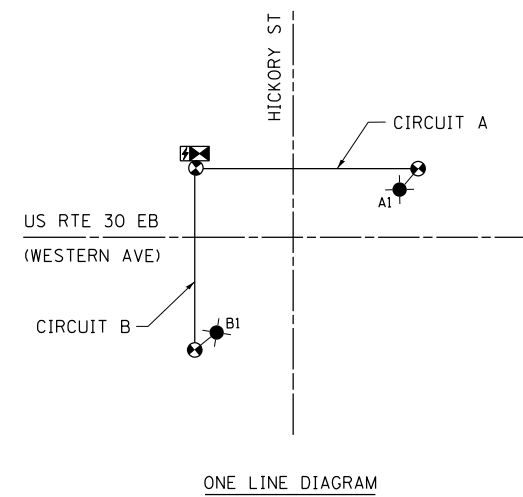
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING COMBINATION POLE PLAN
 US RTE 30 WB (CASS ST) AT JOLIET ST**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	59
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62H79	

THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.



NOTES:

1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
4. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
5. THE EXISTING LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE TEMPORARY COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. AFTER THE TEMPORARY COMBINATION LIGHTING IS OPERATIONAL, THE EXISTING COMBINATION LIGHT CAN BE DISCONNECTED FROM THE EXISTING LIGHTING CIRCUIT, THE REST OF THE LIGHTING CIRCUIT AND SYSTEM MUST REMAIN INTACT. THIS WORK SHALL BE PAID FOR CABLE SPLICE SPECIAL. SEE SHEET 23A FOR SPLICE DETAILS.
6. THE TEMPORARY COMBINATION LIGHTING CONTROLLER SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
AERIAL CABLE, 2-1/C NO. 6 WITH MESSENGER WIRE	FOOT	260
CABLE SPLICE SPECIAL	EACH	1
LUMINAIRE, LED, SPECIAL	EACH	2
TEMPORARY MAST ARM, ALUMINUM, 15FT	EACH	2
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	2

LOCATION NO. 5A

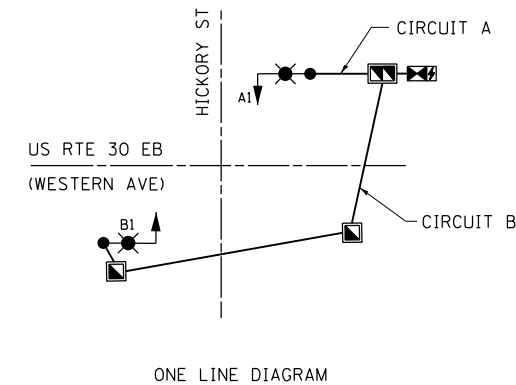
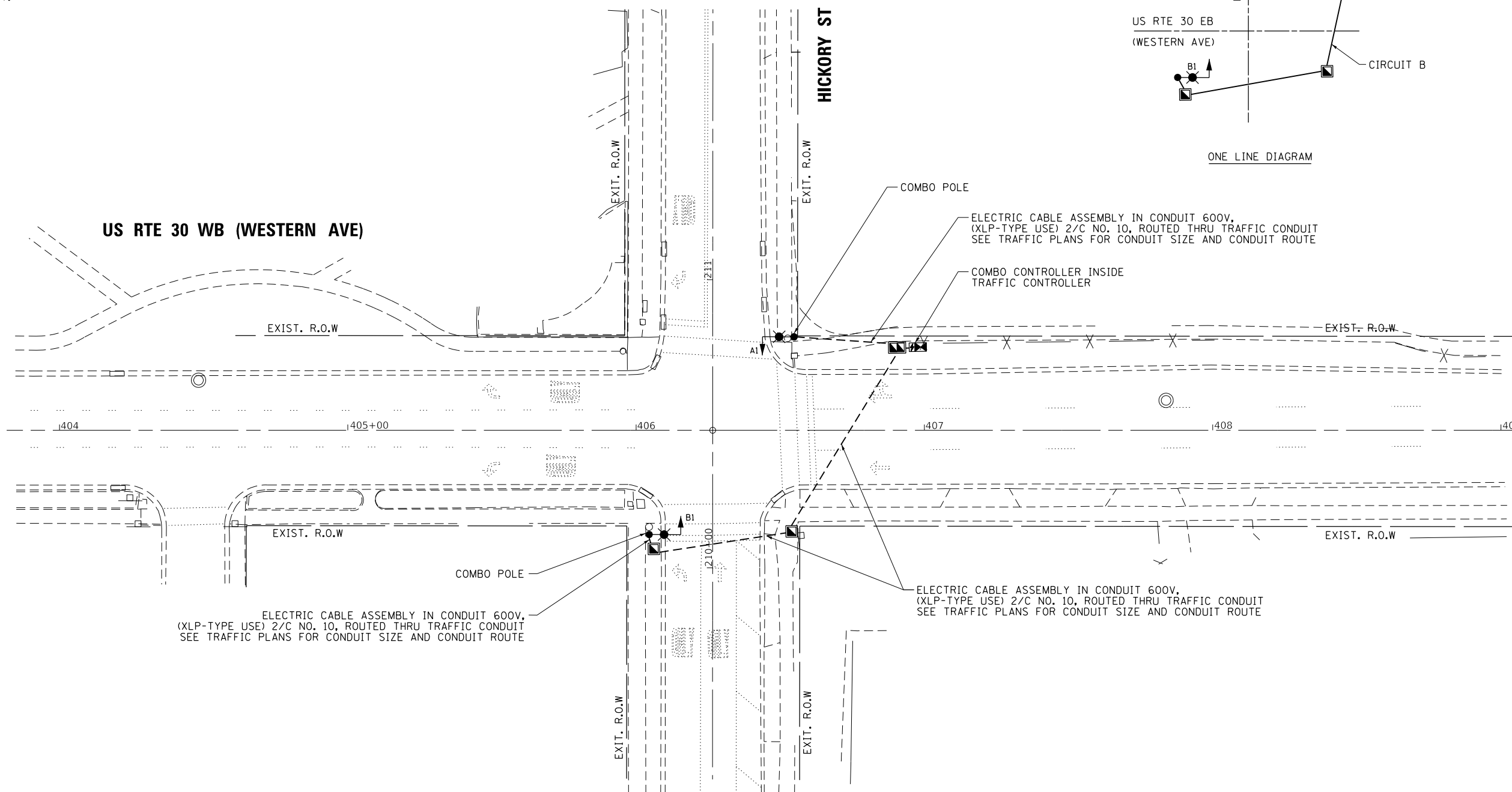
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	USER NAME = \$USER\$	DESIGNED - MA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHTING COMBINATION POLE PLAN US RTE 30 WB (WESTERN AVE) AT HICKORY ST	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MA	REVISED -			VAR	2018-141-TS&I	WILL	68	60
PLOT DATE = \$DATE\$	DATE - 6/1/2020	REVISED -	REVISED -	SCALE: 1"=20'		SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT



COMBINATION LIGHT POLE
 45 FT. LUMINAIRE MOUNTING HEIGHT
 15 FT. LUMINAIRE MAST ARM
 LUMINAIRE, PHILIPS LED, 240W

THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.



NOTES:

1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
6. THE TEMPORARY LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE NEW COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM, MAINTENANCE OF LIGHTING SYSTEM.

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600 V, (XLP-TYPE USE) 1/C NO. 10	FOOT	460
LUMINAIRE, LED, SPECIAL	EACH	2
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	2

LOCATION NO. 5A

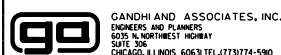
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING COMBINATION POLE PLAN
 US RTE 30 WB (WESTERN AVE) AT HICKORY ST

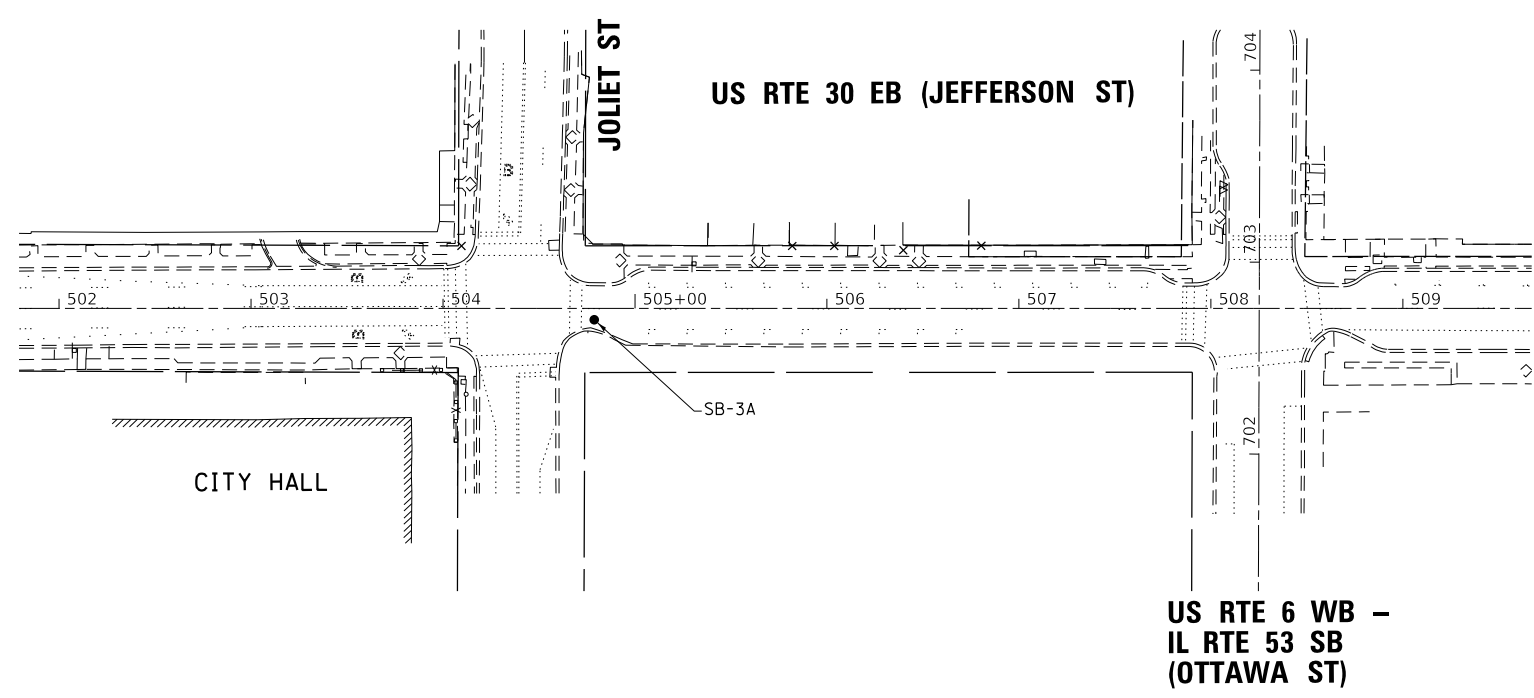
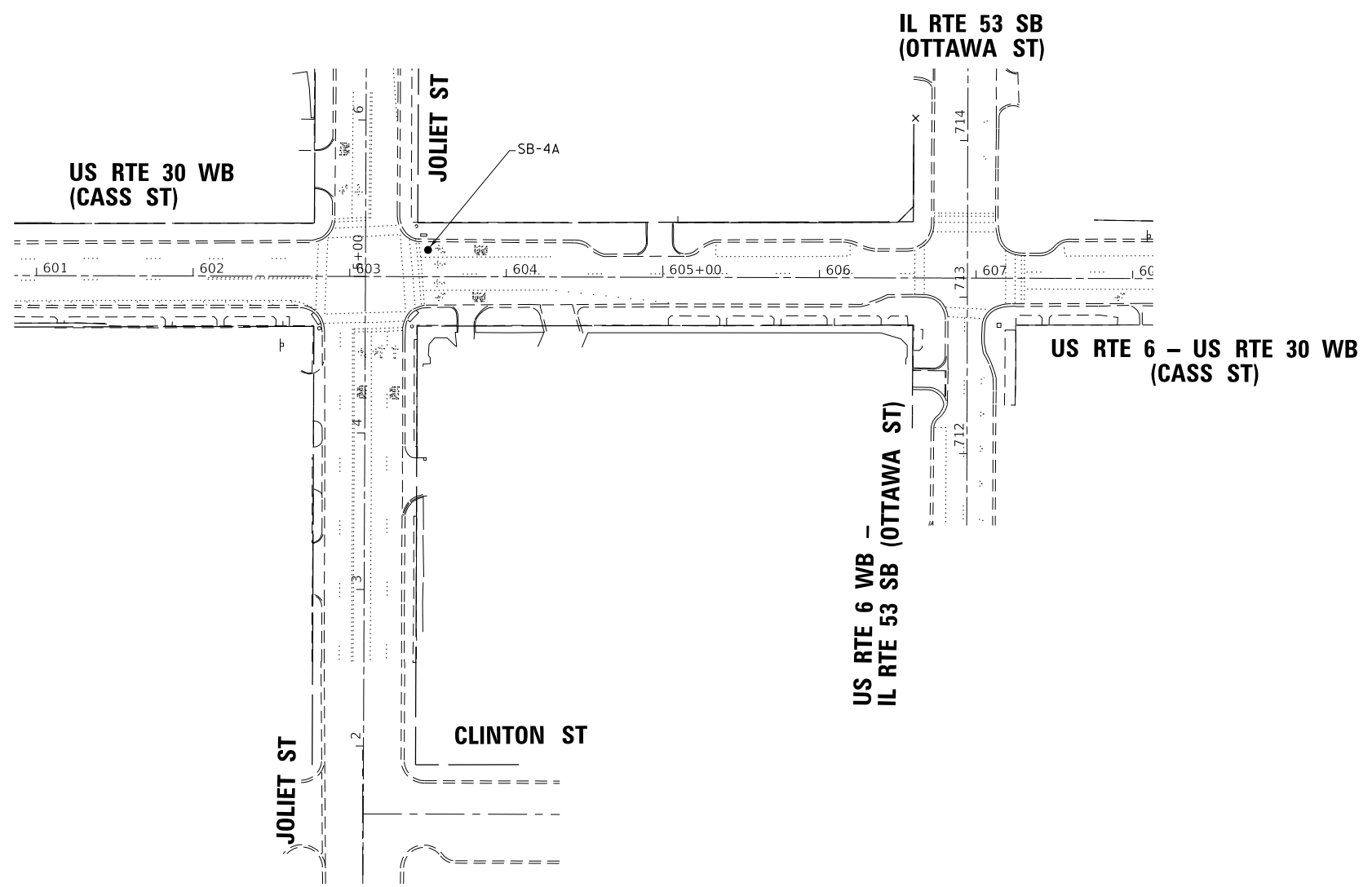
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	61
CONTRACT NO. 62H79				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

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 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 306
 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

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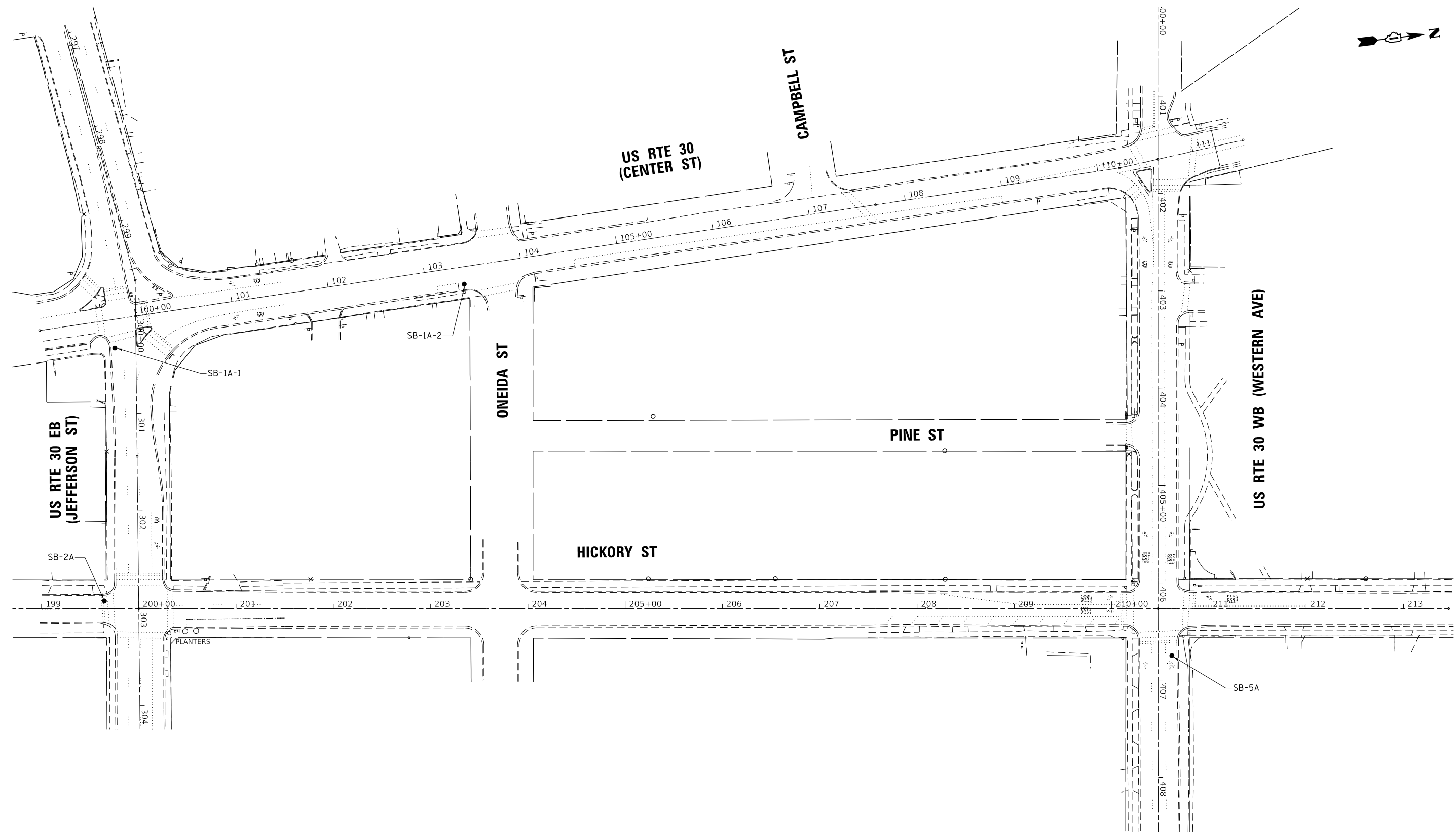
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CHECKED - PKG	REVISED -
DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOCATION MAP (SHEET 1 OF 2)
DOWNTOWN JOLIET

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2018-141-TS&I	WILL	68	62
			CONTRACT NO. 62H79	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 306
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

	USER NAME = \$USER\$	DESIGNED - EA	REVISED -
	PLOT SCALE = 100.0000' / 1" =	DRAWN - EA, AV	REVISED -
	PLOT DATE = \$DATE\$	CHECKED - PKG	REVISED -
		DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOCATION MAP (SHEET 2 OF 2)			
DOWNTOWN JOLIET			
SCALE: 1"=50'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2018-141-TS&I	WILL	68	63
			CONTRACT NO. 62H79	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



Soil Boring Log

Route: Jefferson St Structure No.: (Exist.) (Prop.) Date: 06/29/2 Page: of
Section: 2018-141-TS&I Description: @ Center St
County: WILL Drilling Method: Mobile B-57, 3.25" HSA Hammer Type: AUTO
Boring No.: SB-1A-1 Logged by: M. Esposito Jr.

Table with columns for ELEVATION, DEPTH, BLOWS, U.C.S., M.O.I.S.T., and SOIL TYPE. Includes data for Pavement 14", Brown Loam, and No Bedrock within 5'.

The U.C.S. Qu column represents the Unconfined Compressive Strength using either the IDOT Rimac Test Procedure or AASHTO 208. The Qu failure mode is indicated by B for Bulge or S for Shear. P is shown when sample disturbance only allows Penetrometer testing. The Standard Penetration Test (SPT) N value is the sum of the second and third Blows /6 in. values in each sample using AASHTO T 206.



Soil Boring Log

Route: Center St Structure No.: (Exist.) (Prop.) Date: 06/29/2 Page: of
Section: 2018-141-TS&I Description: @ Oneida St
County: WILL Drilling Method: Mobile B-57, 3.25" HSA Hammer Type: AUTO
Boring No.: SB-1A-2 Logged by: M. Esposito Jr.

Table with columns for ELEVATION, DEPTH, BLOWS, U.C.S., M.O.I.S.T., and SOIL TYPE. Includes data for Pavement 17", Brown Loam, and No Bedrock within 5'.

The U.C.S. Qu column represents the Unconfined Compressive Strength using either the IDOT Rimac Test Procedure or AASHTO 208. The Qu failure mode is indicated by B for Bulge or S for Shear. P is shown when sample disturbance only allows Penetrometer testing. The Standard Penetration Test (SPT) N value is the sum of the second and third Blows /6 in. values in each sample using AASHTO T 206.



Soil Boring Log

Route: Cass St Structure No.: (Exist.) (Prop.) Date: 06/29/2 Page: of
Section: 2018-141-TS&I Description: @ Joliet St
County: WILL Drilling Method: Mobile B-57, 3.25" HSA Hammer Type: AUTO
Boring No.: SB-4A Logged by: M. Esposito Jr.

Table with columns for ELEVATION, DEPTH, BLOW COUNT, UNCONFINED COMPRESSIVE STRENGTH, and MOISTURE CONTENT. Includes data for Bit Pavement 2.5", Weathered Bedrock @ Approx 4', and Drilled to 5'.

The U.C.S. Qu column represents the Unconfined Compressive Strength using either the IDOT Rimac Test Procedure or AASHTO 208. The Qu failure mode is indicated by B for Bulge or S for Shear. P is shown when sample disturbance only allows Penetrometer testing. The Standard Penetration Test (SPT) N value is the sum of the second and third Blows /6 in. values in each sample using AASHTO T 206.

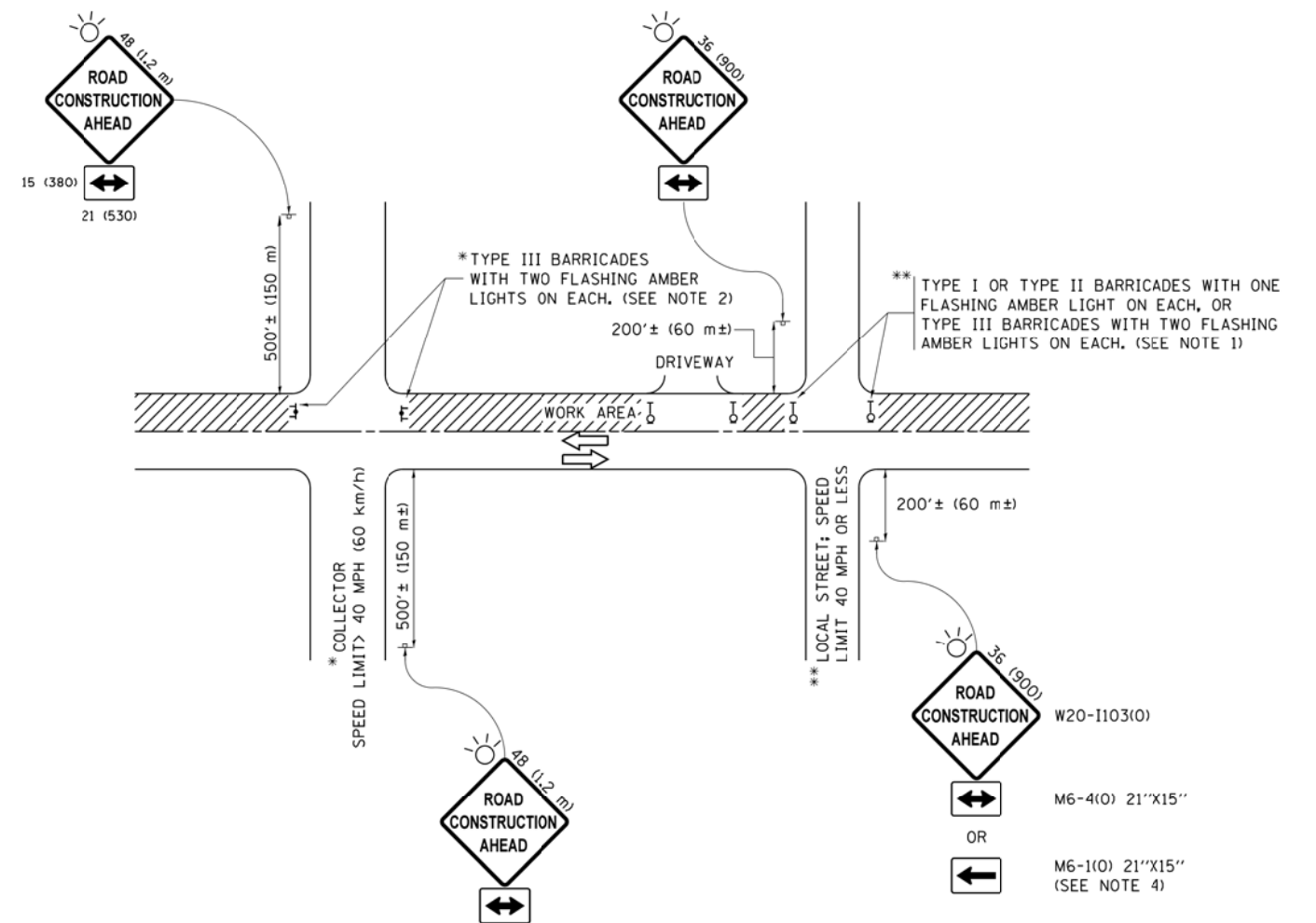


Soil Boring Log

Route: Western Ave Structure No.: (Exist.) (Prop.) Date: 06/29/2 Page: of
Section: 2018-141-TS&I Description: @ Hickory St
County: WILL Drilling Method: Mobile B-57, 3.25" HSA Hammer Type: AUTO
Boring No.: SB-5A Logged by: M. Esposito Jr.

Table with columns for ELEVATION, DEPTH, BLOW COUNT, UNCONFINED COMPRESSIVE STRENGTH, and MOISTURE CONTENT. Includes data for Pavement 9.5" and No Bedrock within 5'.

The U.C.S. Qu column represents the Unconfined Compressive Strength using either the IDOT Rimac Test Procedure or AASHTO 208. The Qu failure mode is indicated by B for Bulge or S for Shear. P is shown when sample disturbance only allows Penetrometer testing. The Standard Penetration Test (SPT) N value is the sum of the second and third Blows /6 in. values in each sample using AASHTO T 206.



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 x 48 (1.2 m x 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) IN HEIGHT.
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).
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 ENGINEER.
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.

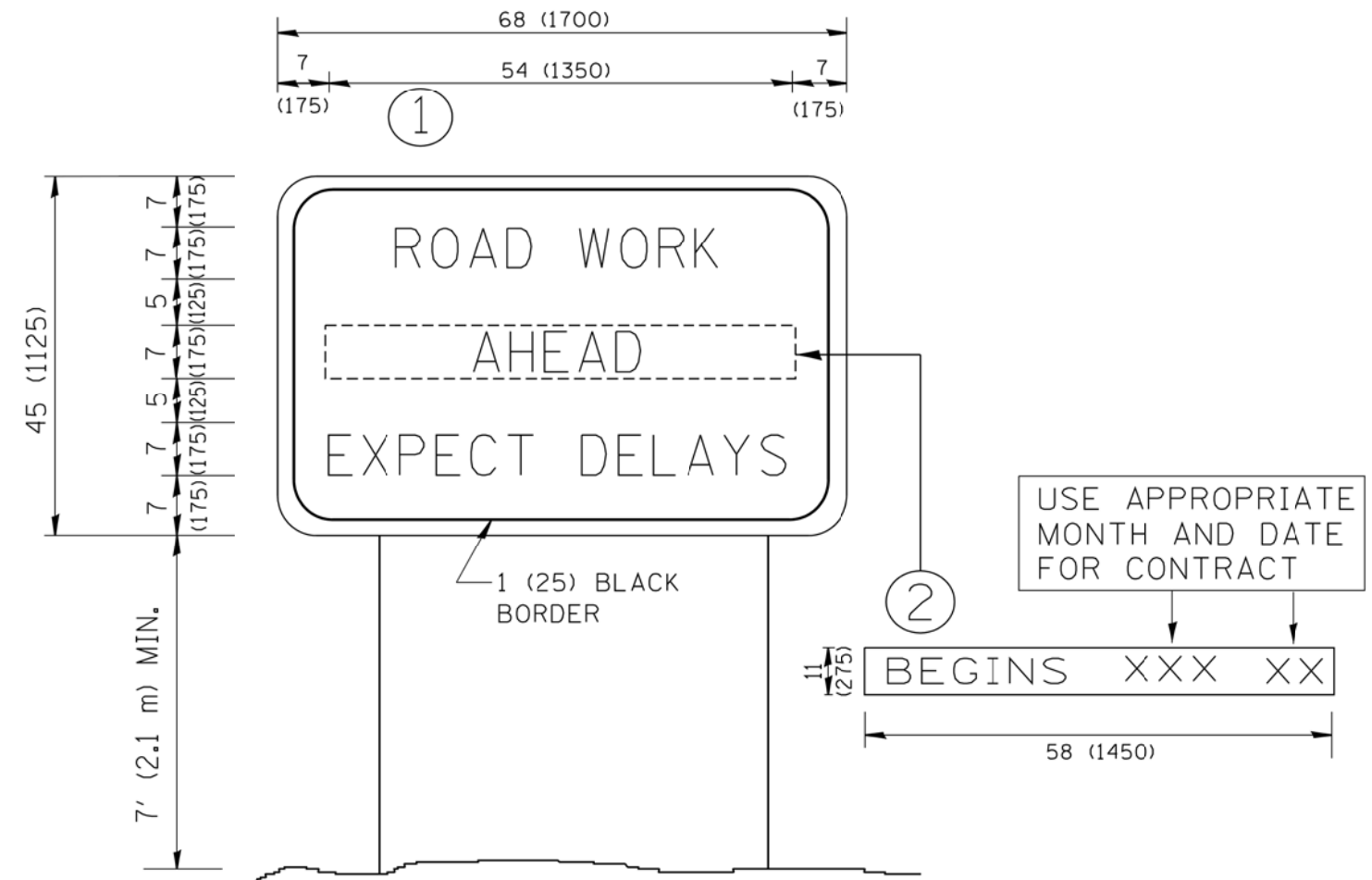
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pw\jll084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist	DRAWN\CA0Data\CA0sheets\c10.dgn	CHECKED -	REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE = 50.000' / in.	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 9/15/2016		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-141-TS&I	WILL	68	67
TC-10			CONTRACT NO. 62H79	
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



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.

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		DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	VAR	2018-141-TS&I	WILL	68 68
		PLOT SCALE = 50.000' / IN.	CHECKED -		REVISED - T. RAMMACHER 02-02-99			TC-22		CONTRACT NO. 62H79		
		PLOT DATE = 1/4/2008	DATE -		REVISED - C. JUCIUS 01-31-07	<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>						