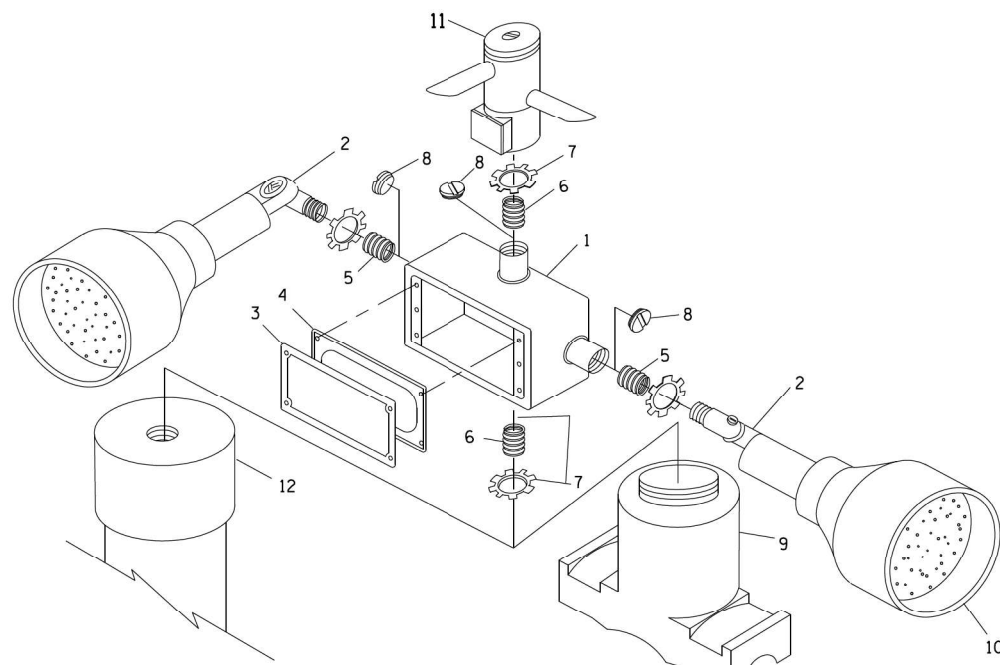


NOTES:

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.

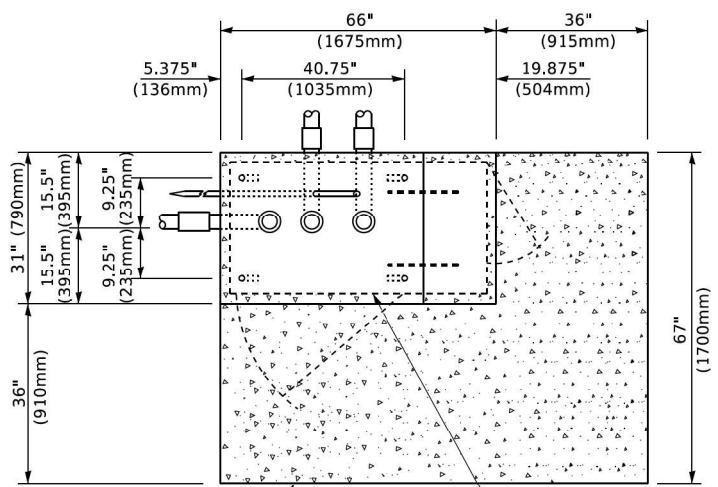
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



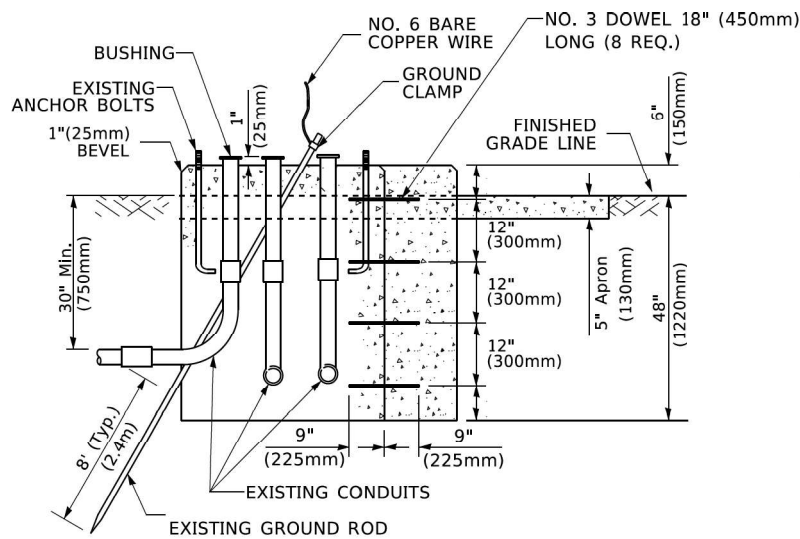
POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



TOP VIEW (NOT TO SCALE)

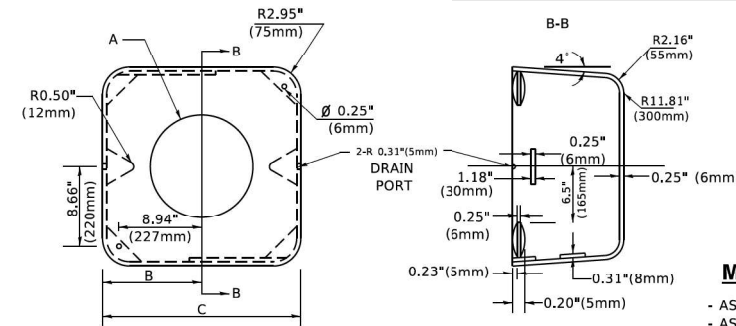


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

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

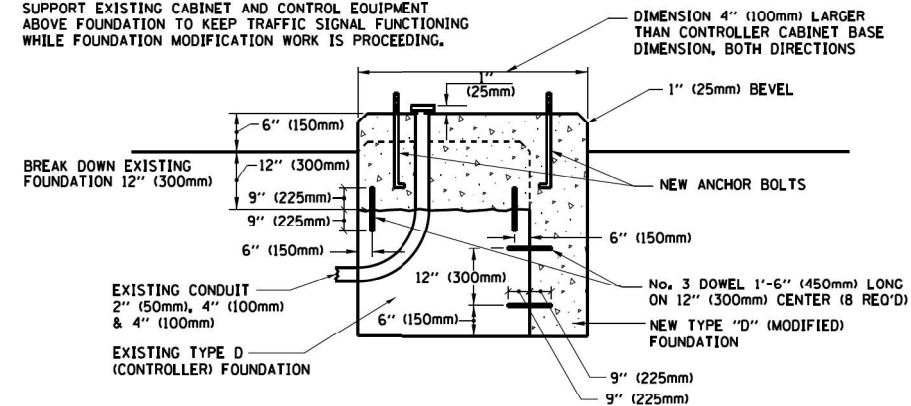
SHROUD

NOTES:

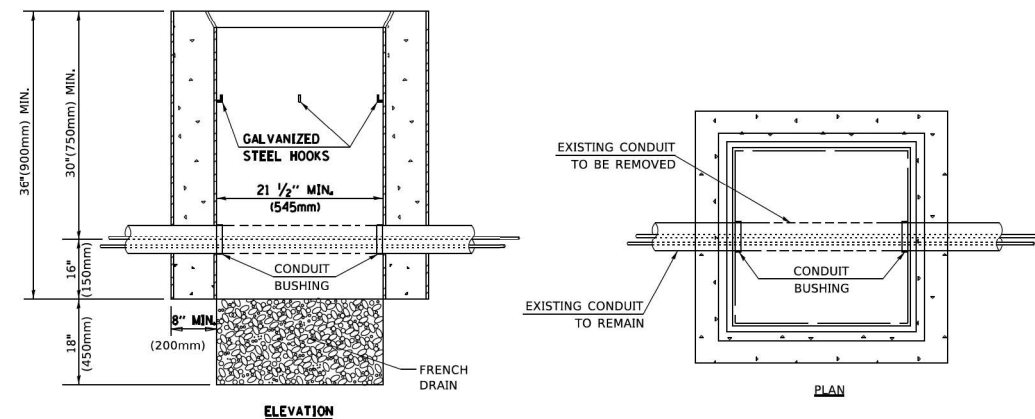
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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

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



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



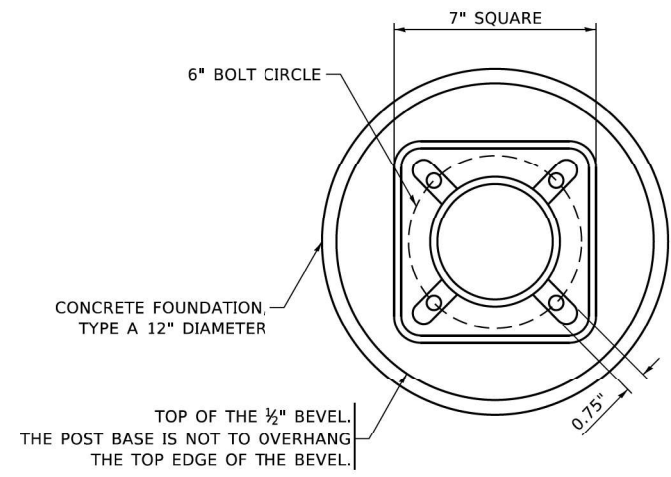
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footemj	-	-
	DRAWN	REVISED
	CHECKED	REVISED
	DATE	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

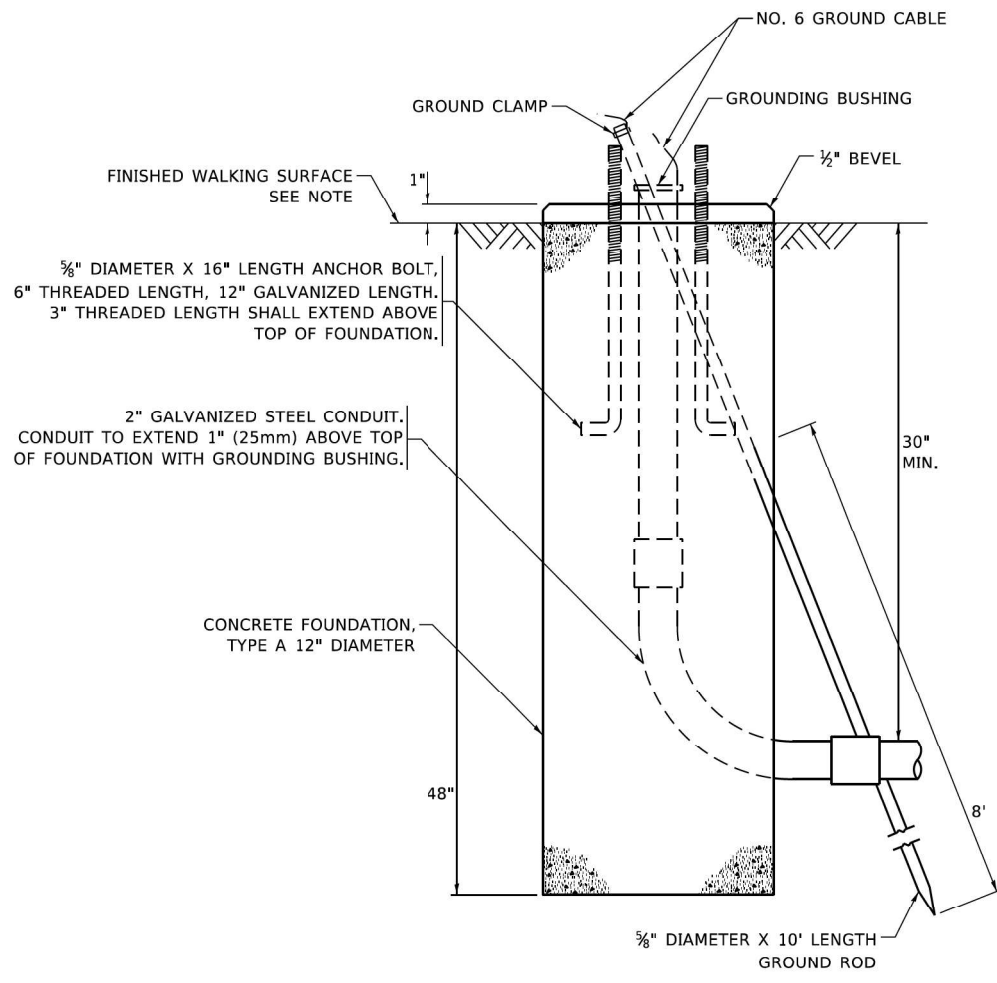
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	301
TS-05		CONTRACT NO. 62N40		
ILLINOIS / FED. AID PROJECT				

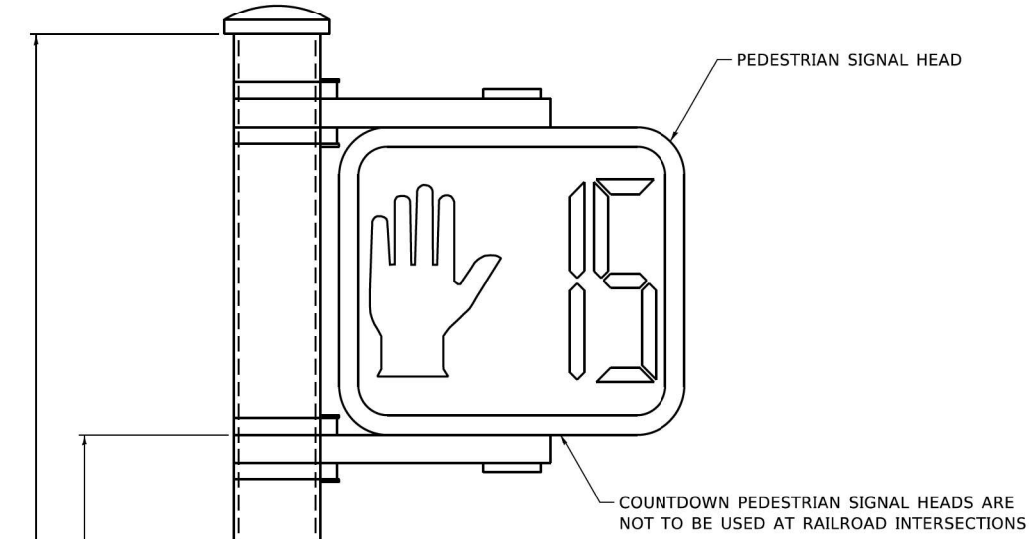


BOLT PATTERN

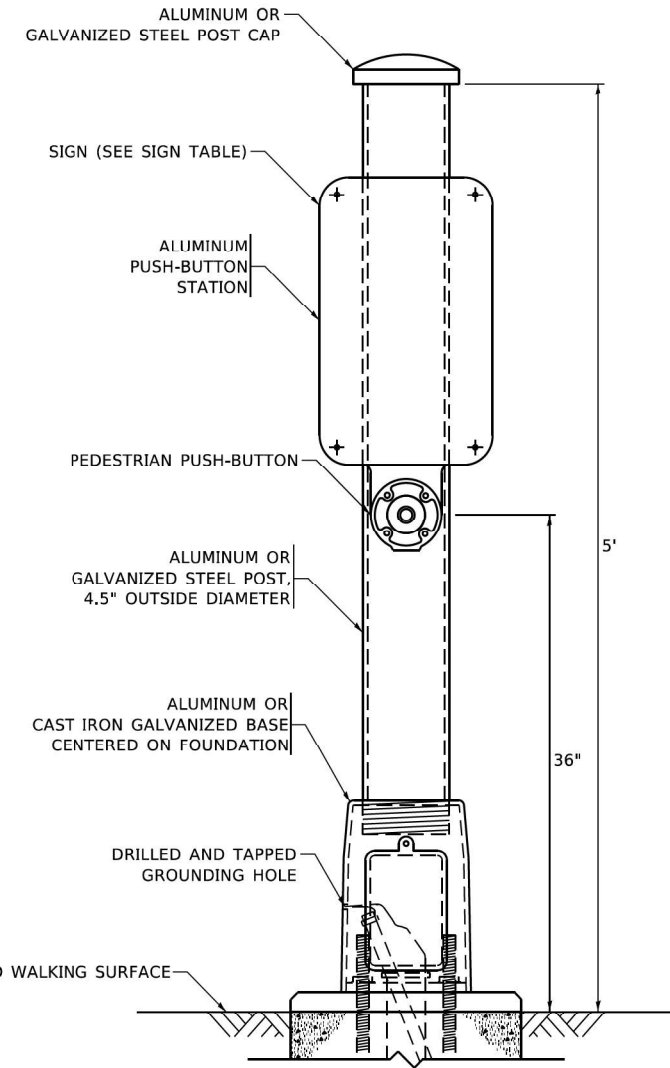
NOTE:
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



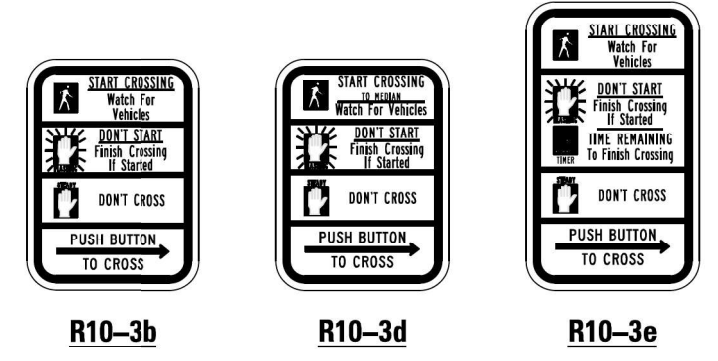
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER



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 12"

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.

MODEL: Default
 FILE: I:\WORK\PROJECTS\2020\2020-263-SUR\SW&TS\Drawings\Signal\Std\Detail\TS-05-Details-07.dwg
 PLOT DATE: 11/23/2020
 PLOT SCALE: 100,0000 / 1in.
 USER NAME: gaglanobt



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DRAWN - IP	REVISD -
CHECKED - LP	REVISD -
DATE - 10-15-2018	REVISD -

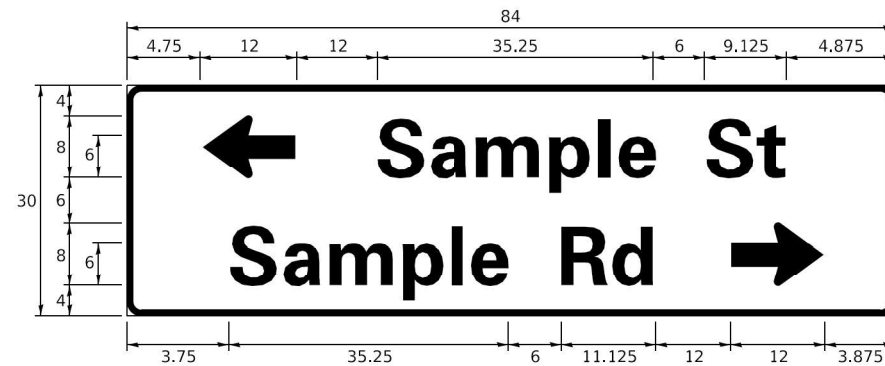
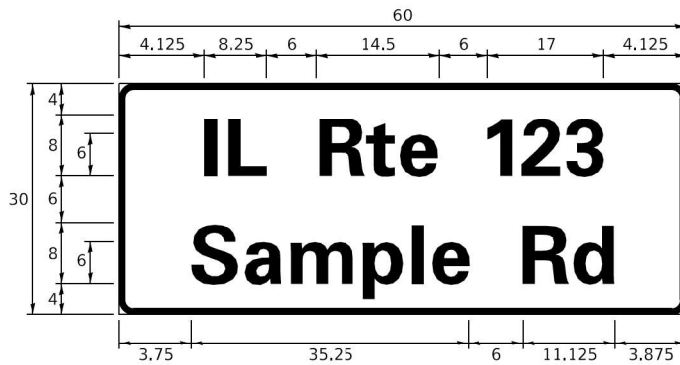
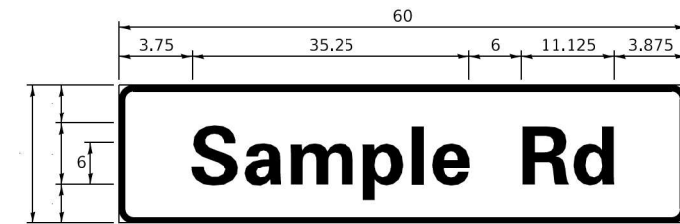
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 302
TS-05		CONTRACT NO. 62N40		
ILLINOIS FED. AID PROJECT				

SIGN PANEL – TYPE 1 OR TYPE 2



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

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

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

LOCAL SUPPLIERS:

- J.O. HERBERT COMPANY, INC
MIDI OTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
- SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
- BRACKETS PART #HPN034 (UNIVERSAL)
- CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING SELF TAPPING WITH NEOPRENE WASHER

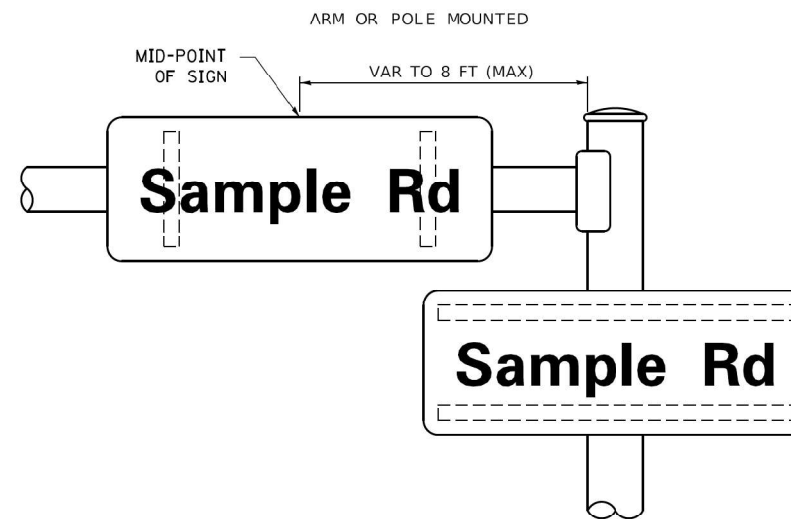
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

STANDARD ALPHABETS SPACING CHART

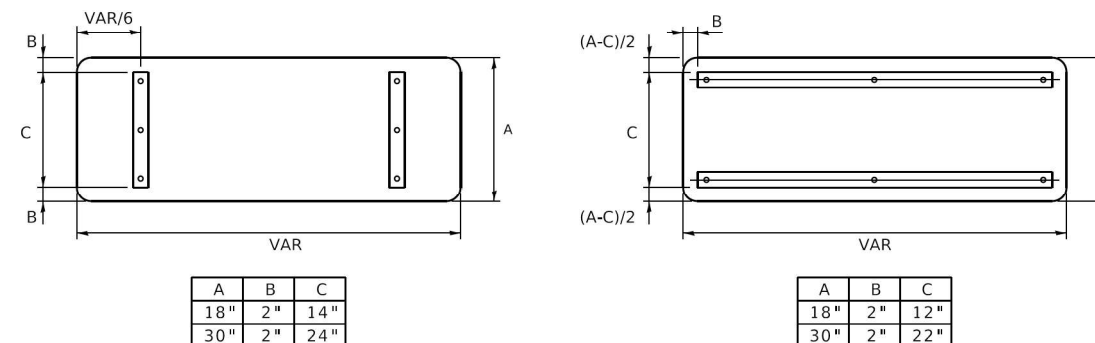
(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.952	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.082	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.352	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.952	0.160	y	0.160	6.004	0.160
z	0.240	3.352	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.952	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

MOUNTING LOCATION



SUPPORTING CHANNELS



MODEL: D:\draft\...
 FILE NAME: ...
 PLOT DATE: 3/4/2019



USER NAME = footemj	DESIGNED - LP/IP	REVISED - LP 07/01/2015
PLOT SCALE = 50,0000' / 1"	CHECKED - IP	REVISED -
PLOT DATE = 3/4/2019	DATE - 10/01/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

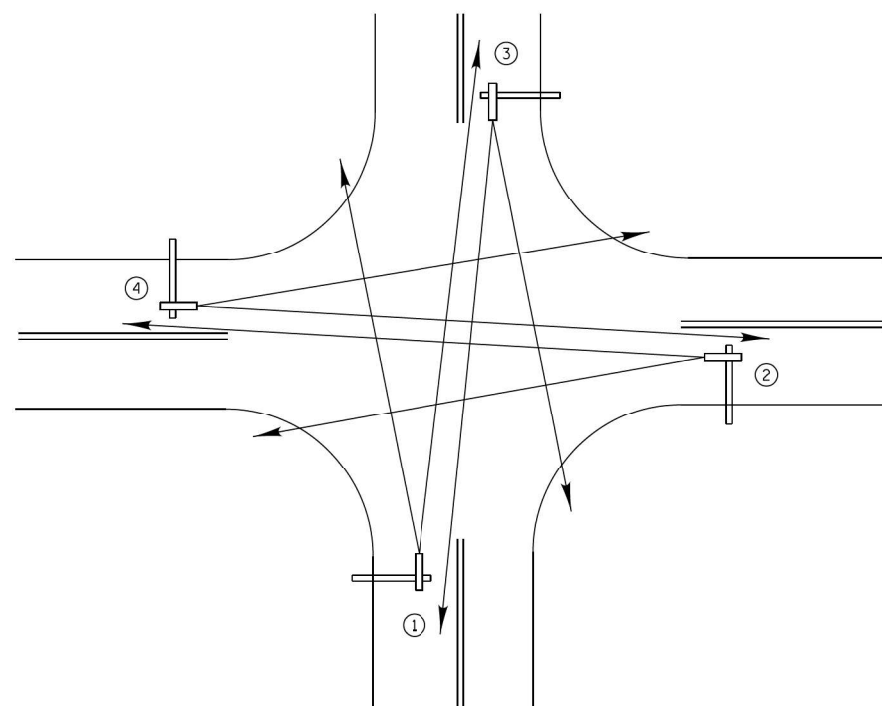
**DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS**

F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 303
TS-02		CONTRACT NO. 62N40		

SCALE: SHEET OF SHEETS STA. TO STA.

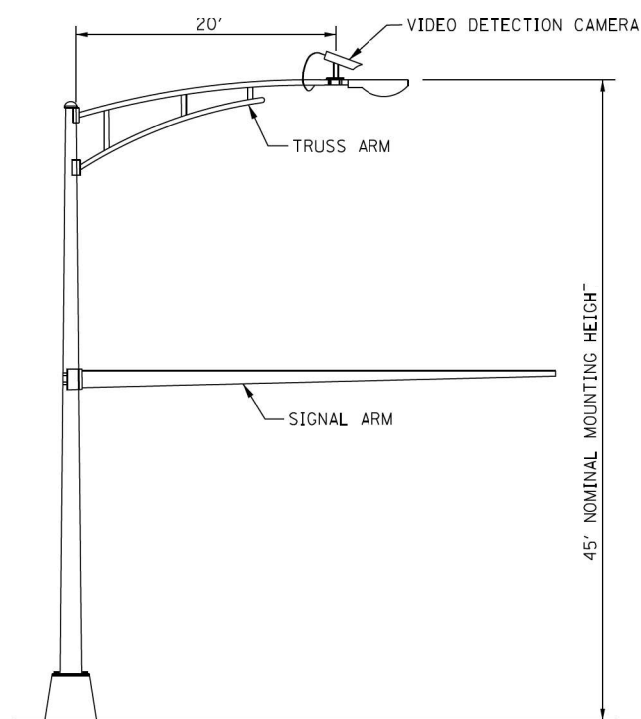
ILLINOIS FED. AID PROJECT

FILE NAME = p:\h-p\p-bent\gucemh-pa-01\Documents\01 Active Projects\W-CIS-16695100 - IL 6A Phase 1\2 Design\CAD\Plan Sheets\Signal\East Corridor - Signal\0108121-int-ts-det-88A.dgn

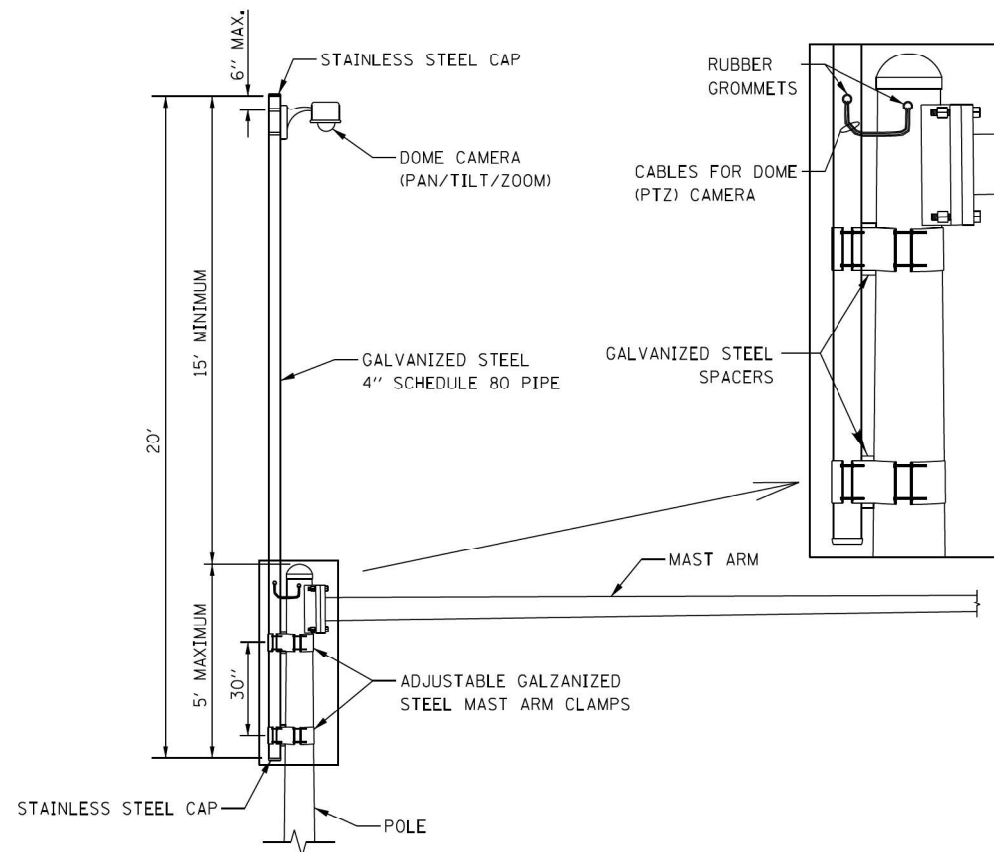


TYPICAL VIDEO VEHICLE DETECTION SYSTEM
(NOT TO SCALE)

(4) VIDEO DETECTION CAMERA ASSEMBLIES AND BRACKETS ① ② ③ ④

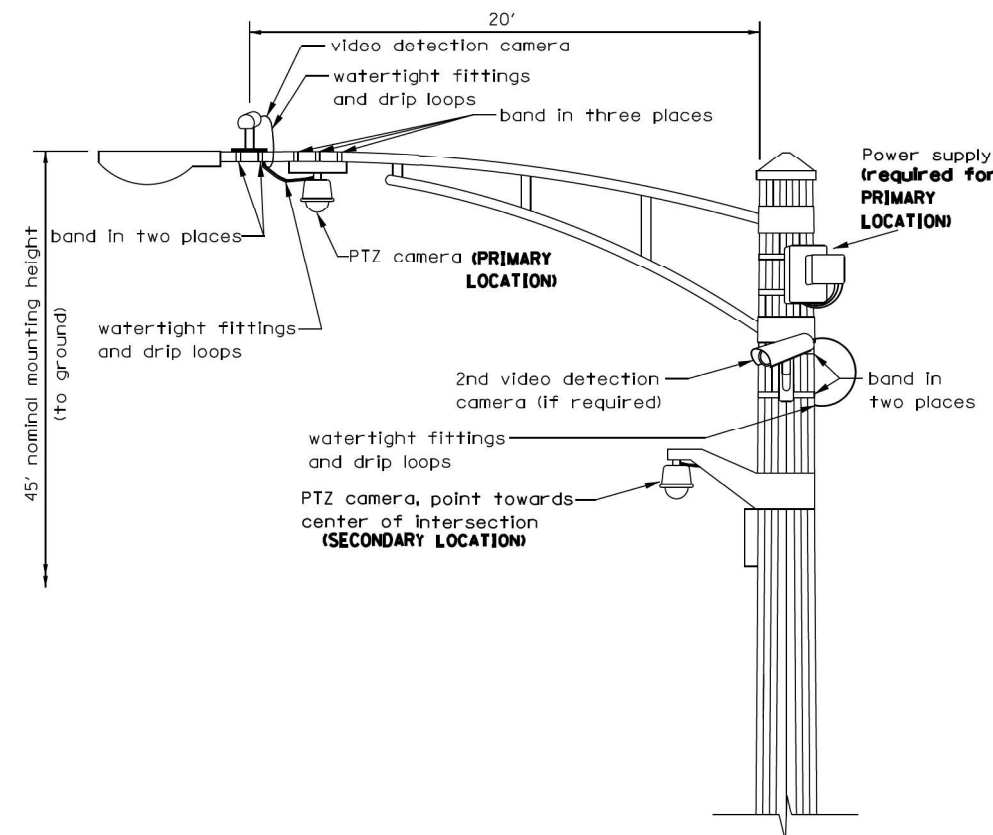


COMBINATION MAST ARM ASSEMBLY AND POLE DIMENSIONS
(NOT TO SCALE)



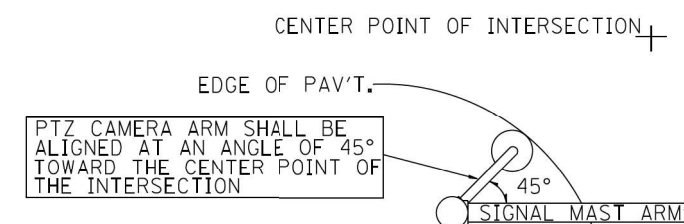
CAMERA MOUNTING ASSEMBLY DETAIL
(NOT TO SCALE)

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

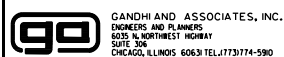


VIDEO DETECTION CAMERA(S) AND DOME (PTZ) CAMERA MOUNTING DETAIL
(NOT TO SCALE)

- NOTES FOR SINGLE, DUAL AND MULTIPLE CAMERA MOUNTING:**
- MOUNT LUMINAIRE MOUNTING BRACKET AS HIGH AS POSSIBLE.
 - MOUNT VIDEO DETECTION CAMERA AIMING DOWN TOWARD THE DIRECTION OF TRAFFIC TO BE DETECTED.



PTZ CAMERA MOUNTING DETAILS (SECONDARY LOCATION)
(NO SCALE)



USER NAME = \$USER\$	DESIGNED -	REVISED -
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	DATE - 1	REVISED -

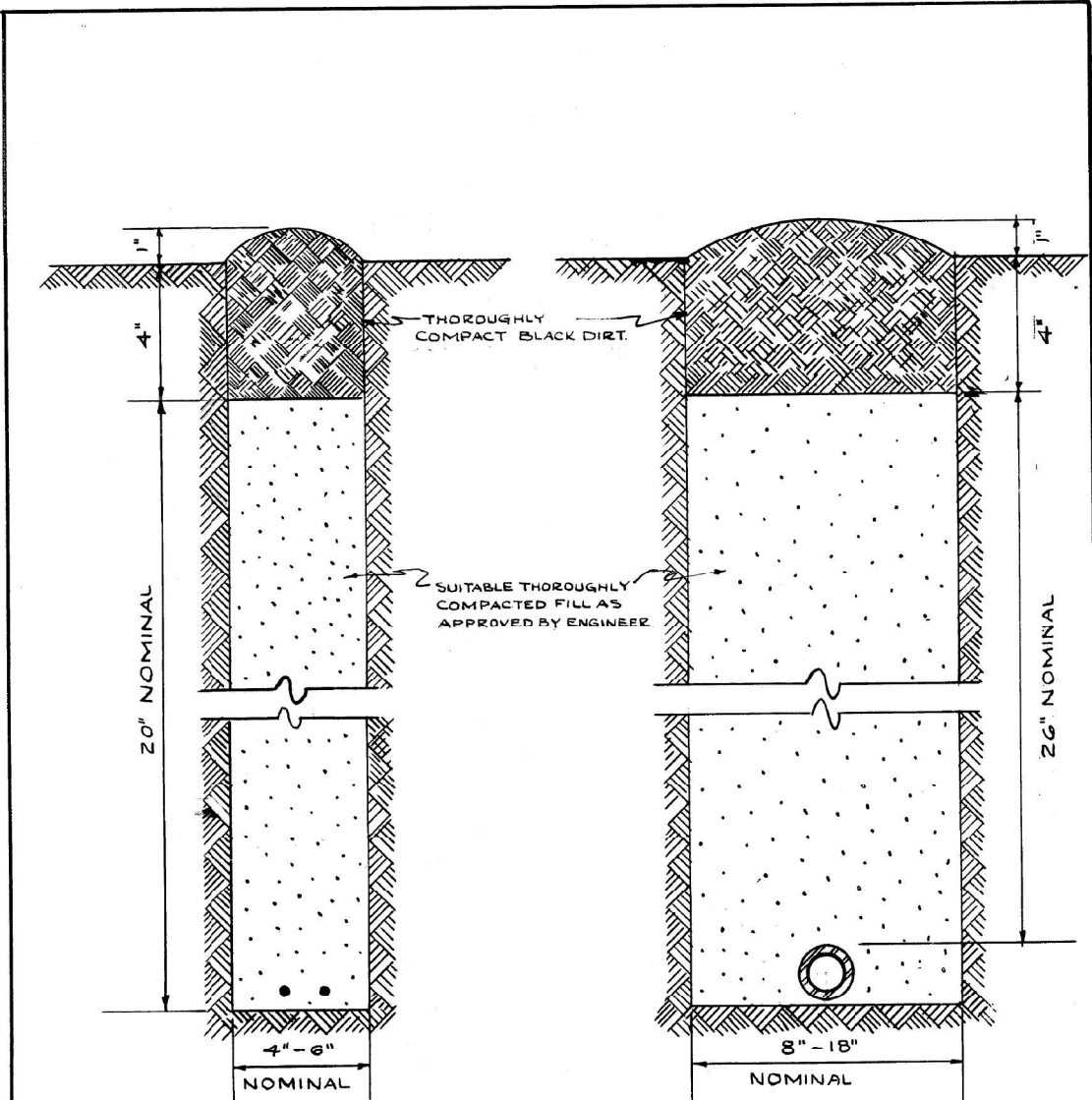
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CAMERA MOUNTING DETAIL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	304
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

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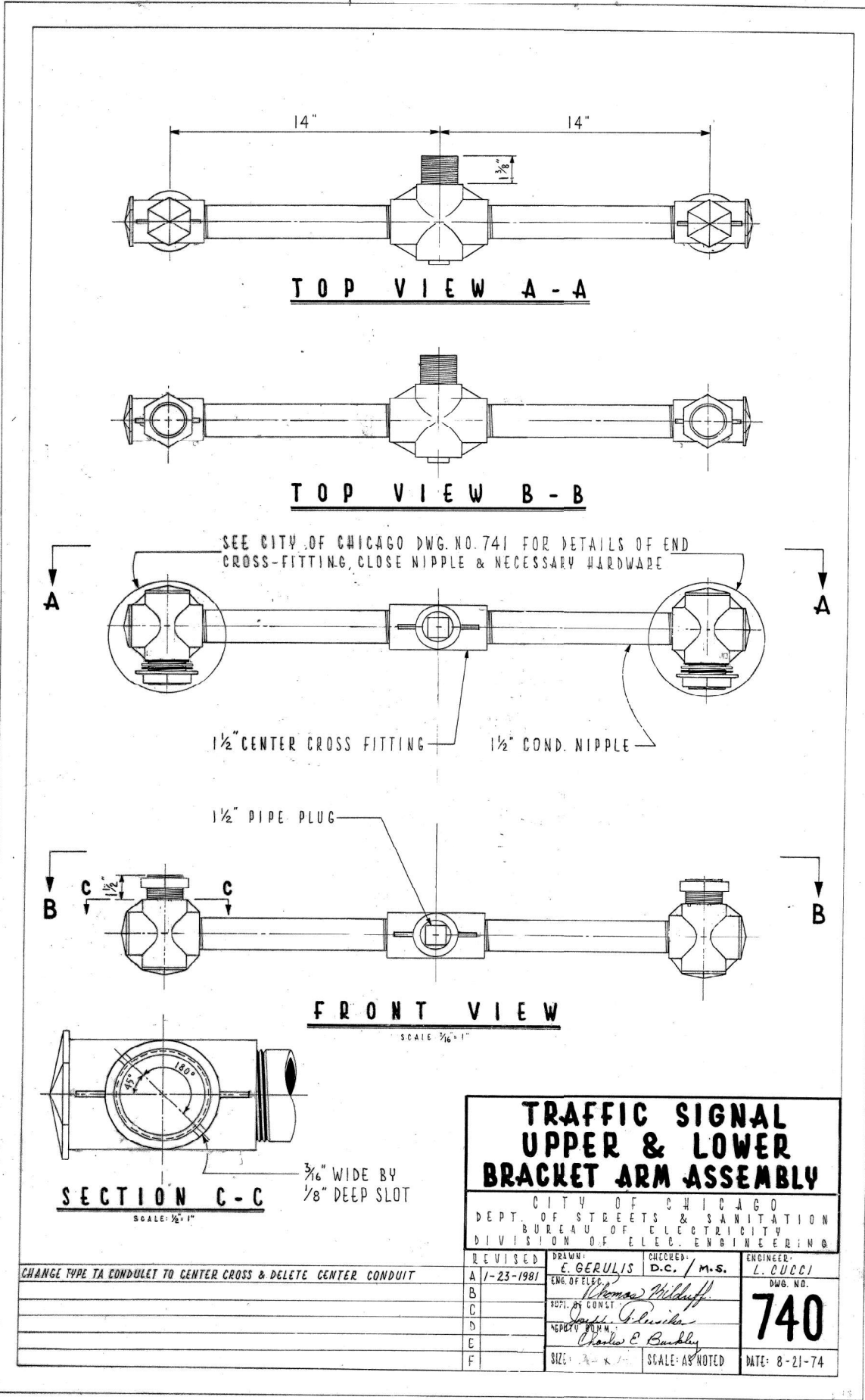
CABLE TRENCH

CONDUIT TRENCH

NOTE
 EXCESS SOIL FROM TRENCH TO BE COMPLETELY REMOVED FROM SITE AS SOON AS PRACTICABLE.
 BLACK DIRT TO BE TAMPED & THOROUGHLY COMPACTED AS SHOWN.

STANDARD METHOD FOR BACKFILLING CABLE & CONDUIT TRENCHES IN SODDED PARKWAY & LAWNS

CITY OF CHICAGO			
DEPT. OF STREETS & SANITATION			
DIVISION OF ELECTRICAL ENGINEERING			
REVISION	DRAWN	CHECKED	ENGINEER
A	W. E. HAFF	M. J. King	J. O'CONNOR
B	ENGR. IN CHARGE		DRG. NO.
C	- Bridge R. Buckley		579
D	Supt. of Const.		
E	- Thomas J. Wilkoff		
F	DEPUTY COMM.		
G	- Arthur J. Kelley		
H	SIZE 8 1/2 x 14"	SCALE: N	DATE: 7-14-61



TRAFFIC SIGNAL UPPER & LOWER BRACKET ARM ASSEMBLY

DEPT. OF STREETS & SANITATION
 BUREAU OF ELECTRICITY
 DIVISION OF ELEC. ENGINEERING

REVISED	DRAWN	CHECKED	ENGINEER
A 1-23-1981	E. GERULIS	D.C. / M.S.	L. CUCCI
B	- Thomas J. Wilkoff		DRG. NO.
C	- Joseph J. Wilkoff		740
D	- Charles E. Buckley		
E			
F	SIZE: 3/4 x 1/2	SCALE: AS NOTED	DATE: 8-21-74

CHANGE TYPE TA CONDULET TO CENTER CROSS & DELETE CENTER CONDUIT

GO GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 206
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

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PLOT DATE = \$DATE\$	CHECKED -	REVISED -
	DATE - 1	REVISED -

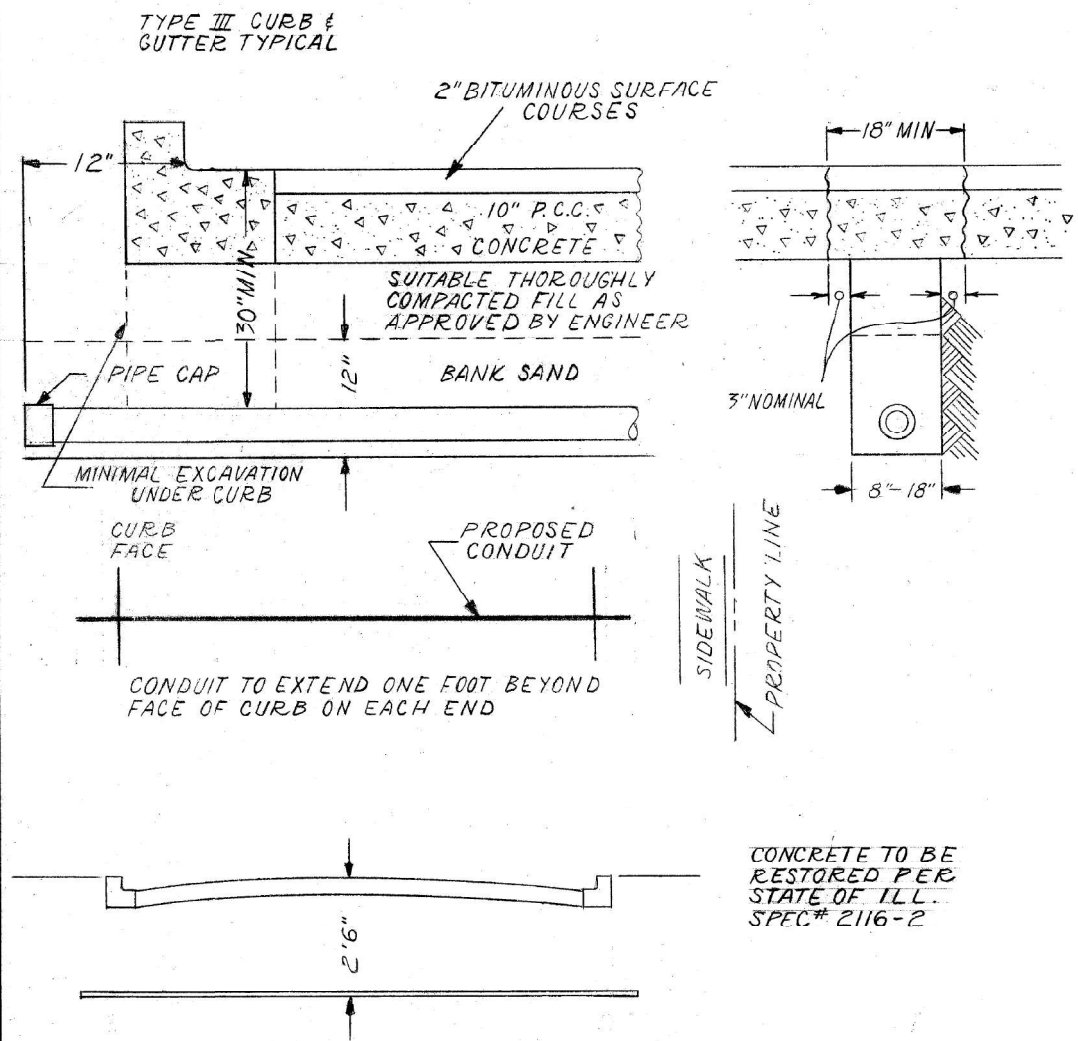
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CDOT DETAILS

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	305
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

CONDUIT INSTALLATION UNDER PAVED STREET



CONDUIT TO EXTEND ONE FOOT BEYOND FACE OF CURB ON EACH END

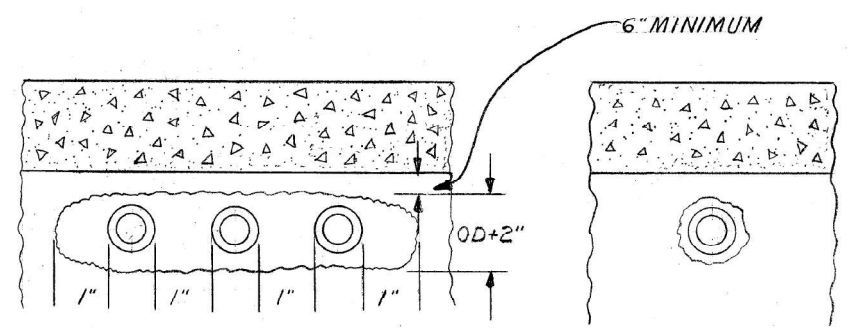
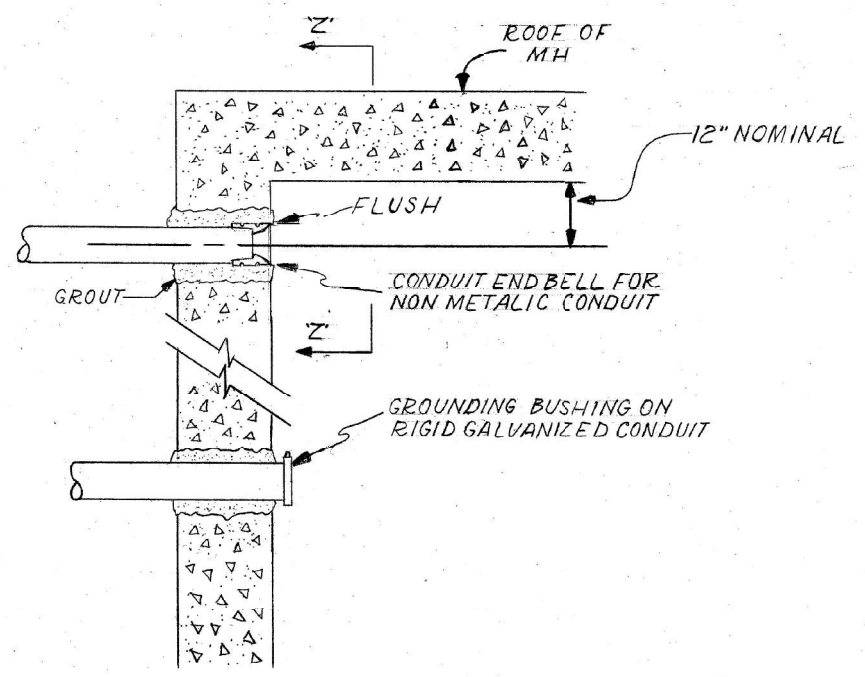
CONCRETE TO BE RESTORED PER STATE OF ILL. SPEC# 2116-2

INSTALLATION METHOD OF INSTALLING CONDUIT UNDER PAVED ROADWAY

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAWN A.M. JOHNSON	CHECKED R. SYCKOWSKI	ENGINEER R.L. MARTIN
 ENGINEER OF ELECTRICITY		DRG. NO. 813
 DEPT. CHIEF DEPUTY COMM.		DATE 3-13-81
SIZE 8 1/2" X 14"	SCALE N.T.S.	

CONDUIT INSTALLATION THROUGH EXISTING MANHOLE OR HANDHOLE WALL



OPENING THROUGH WALL TO BE KEPT TO MINIMUM SIZE TO ADMIT CONDUIT AND SUFFICIENT GROUT TO ASSURE SEALING WALL.

INSTALLATION METHOD OF INSTALLING CONDUIT THRU MANHOLE WALL

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAWN A.M. JOHNSON	CHECKED R. SYCKOWSKI	ENGINEER R.L. MARTIN
 ENGINEER OF ELECTRICITY		DRG. NO. 814
 DEPT. CHIEF DEPUTY COMM.		DATE 3-13-81
SIZE 8 1/2" X 14"	SCALE N.T.S.	

FILE NAME = ...

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

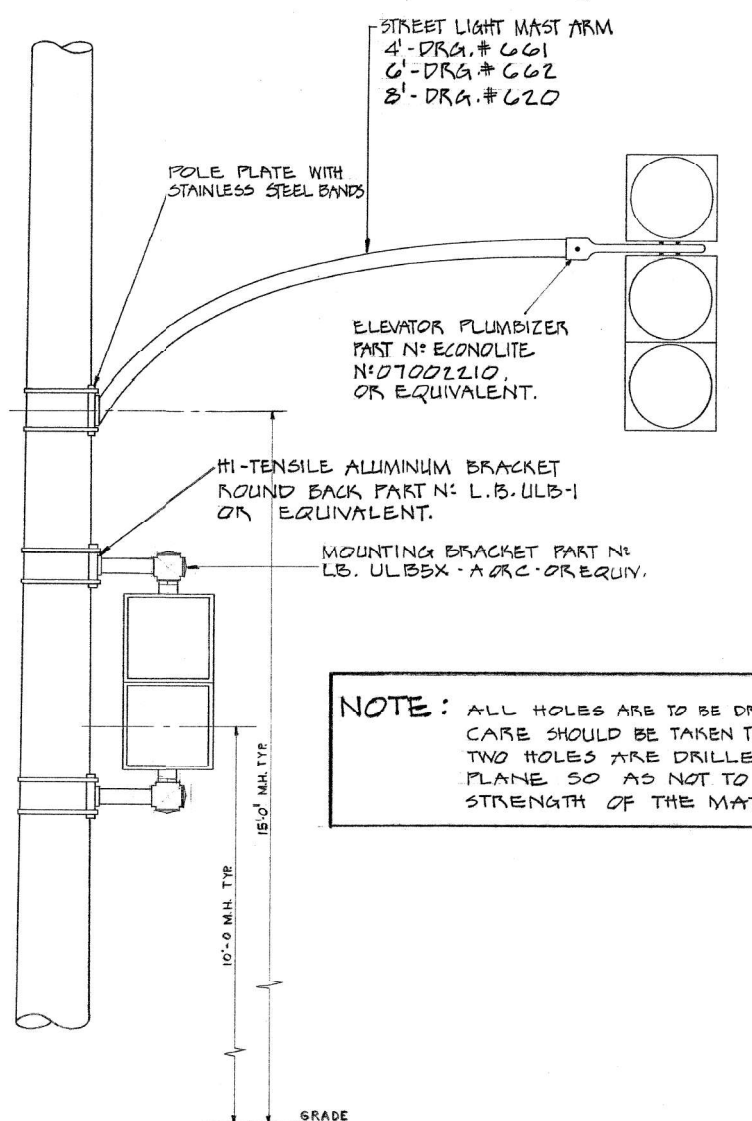
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

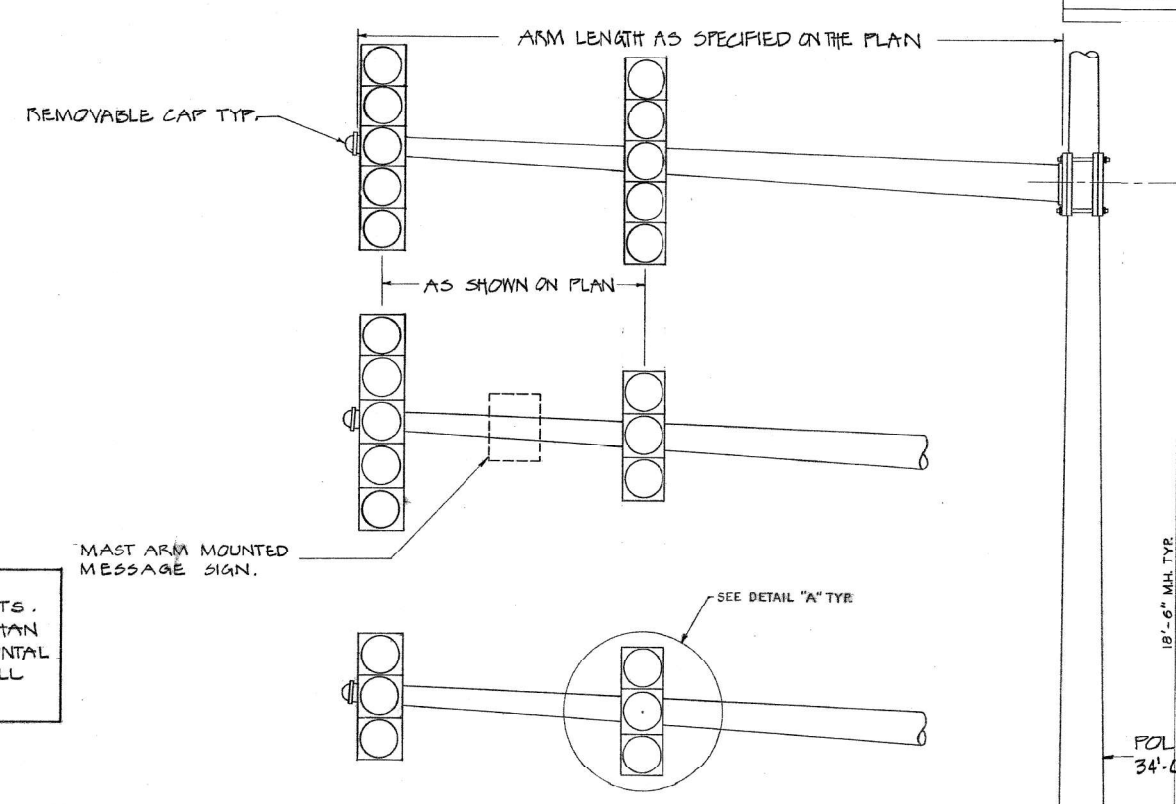
CDOT DETAILS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	306
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

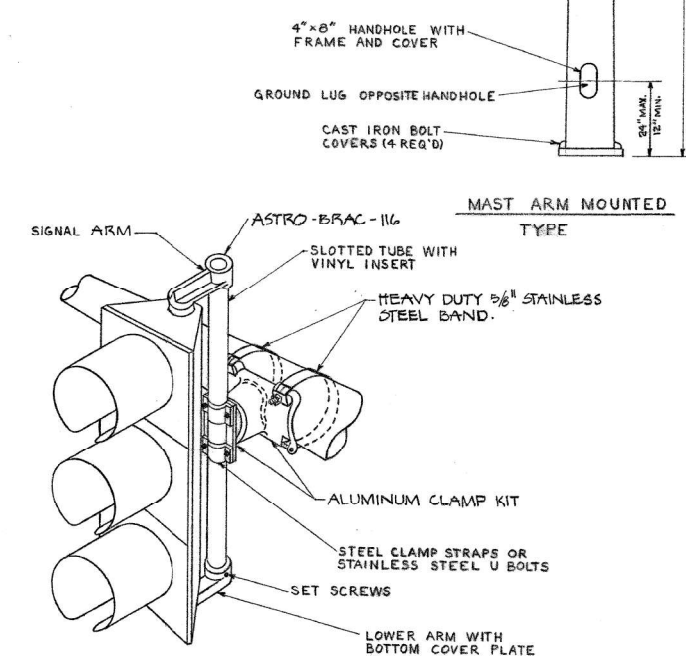
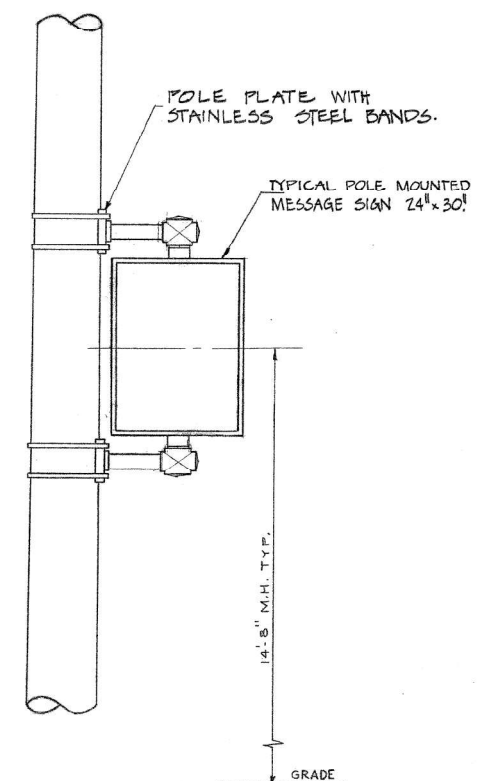
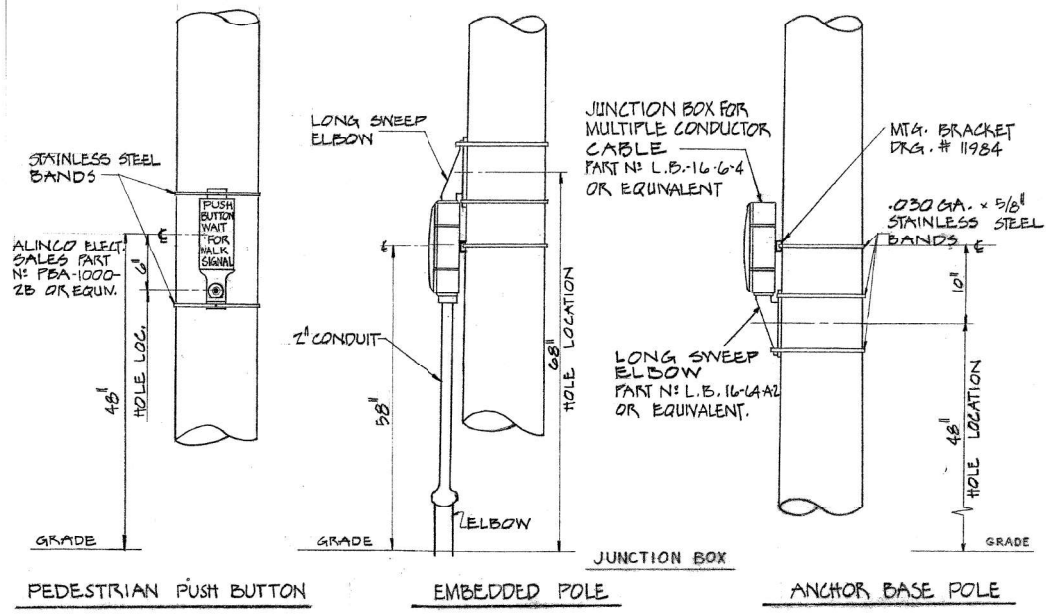
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BY					
REVISIONS OF WORKING PLAN	FHWA REG. NO.	ILLINOIS PROJECT			



NOTE: ALL HOLES ARE TO BE DRILLED IN POLES OR POSTS. CARE SHOULD BE TAKEN TO SEE THAT NO MORE THAN TWO HOLES ARE DRILLED IN THE SAME HORIZONTAL PLANE SO AS NOT TO WEAKEN THE OVERALL STRENGTH OF THE MATERIAL.



NOTE: OVERHEAD SIGNALS SHALL HAVE A MINIMUM CLEARANCE OF 15'-0" ABOVE PAVEMENT GRADE.



DETAIL 'A'
STEEL MAST ARM MOUNTING DETAIL
NOTE: FOR OPTICALLY PROGRAMMED SIGNAL LONGER SIGNAL ARMS REQUIRED. (ASTRO-BRAC AB-103)

DATE	REVISION
WORK ORDER NO.	DATE
COST ALLOCATION ACCOUNT	
APPROPRIATION ACCOUNT	MATERIAL
	LABOR
TYPICAL TRAFFIC SIGNAL MOUNTING DETAILS	
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING	
DRAFTSMAN: <i>K. Figo/a</i>	CHIEF DRAFTSMAN: <i>RJS</i>
ENGINEER: <i>M. DEBARDELO</i>	
SUPERVISING ENGINEER: <i>R. P. Monte</i>	DWG. NO. 834
ENGINEER OF ELECTRICITY: <i>Michael J. Shaw</i>	
GENL. Supt. OF ELECTRICITY: <i>Patricia V. Jell</i>	
DEPUTY COMMISSIONER: <i>Ronald J. Jorgensen</i>	
SIZE:	SCALE: N.T.S.
	DATE: 12-10-84

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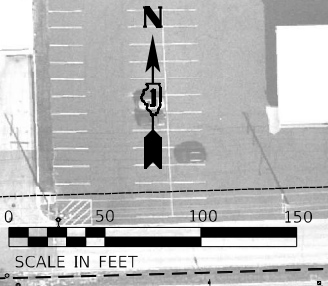
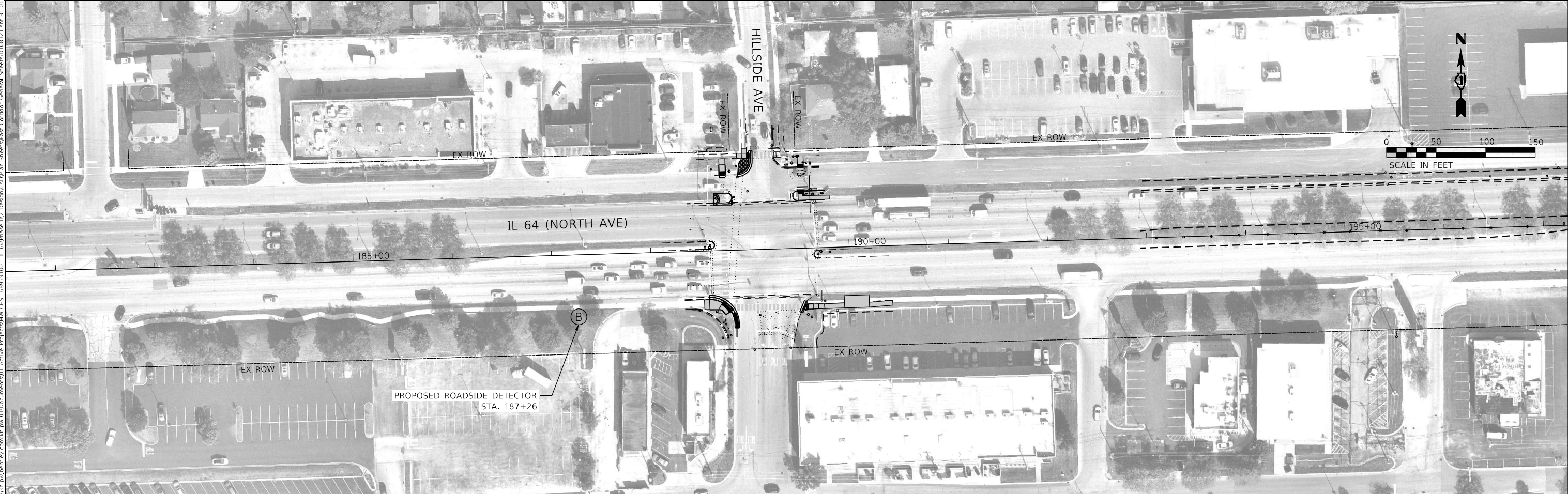
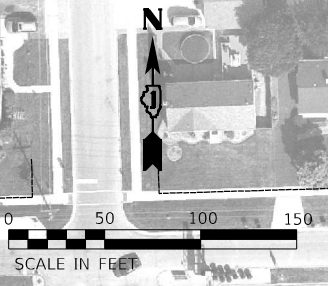
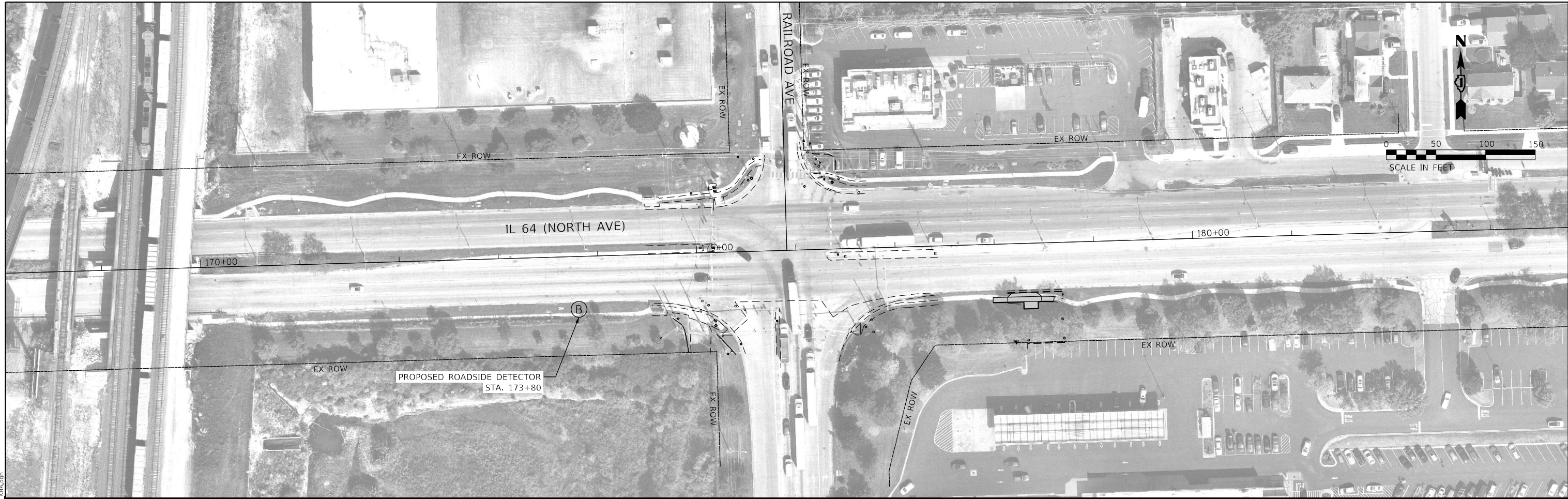


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	DATE - 1	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	307
CONTRACT NO. 62N40				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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 © 2022 KIMLEY-HORN AND ASSOCIATES, INC.
 4001 WATKINS ROAD, SUITE 600
 WARREN, ILL. 60555
 PHONE: (815) 427-4855
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USER NAME = joel.turk	DESIGNED - AMK	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - JJT	REVISED -
PLOT DATE = 3/22/2024	CHECKED - SS	REVISED -
	DATE - 3/22/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED ROADSIDE DETECTOR PLAN
IL 64 (NORTH AVE) AT RAILROAD AVE AND HILLSIDE AVE
 SCALE: 1" = 50' SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-264-SUR, SW&TS	COOK	492	308
CONTRACT NO. 62N40				
ILLINOIS / FED. AID PROJECT				



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 PLOT DATE = 3/22/2024

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 DRAWN - JJT
 CHECKED - SS
 DATE - 3/22/2024

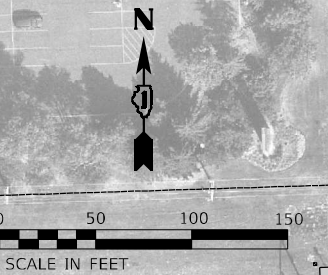
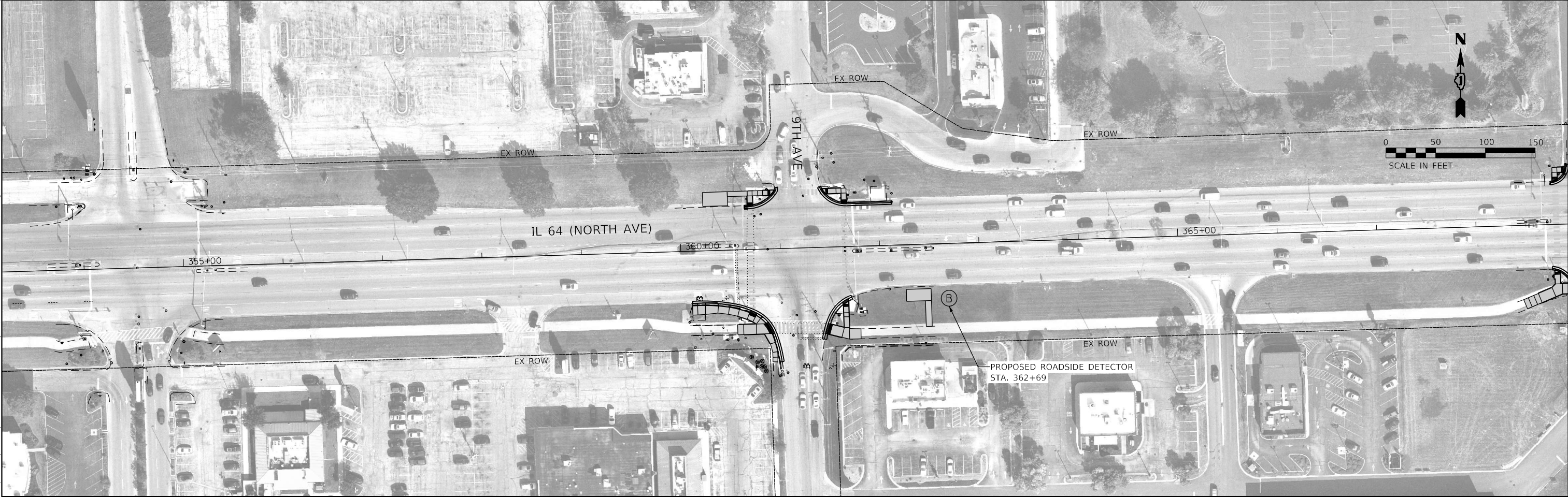
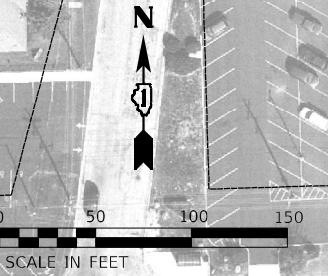
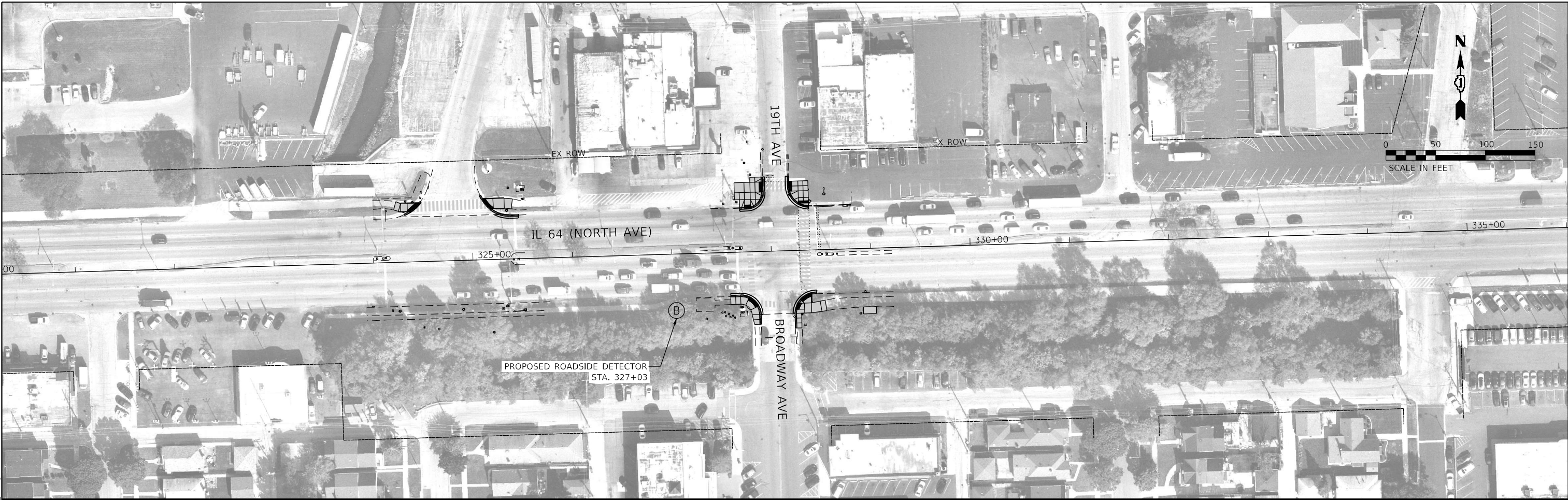
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 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED ROADSIDE DETECTOR PLAN
 IL 64 (NORTH AVE) AT WOLF AVE AND ROY AVE**

SCALE: 1" = 50' SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-264-SUR, SW&TS	COOK	492	309
CONTRACT NO. 62N40				
ILLINOIS		FED. AID PROJECT		



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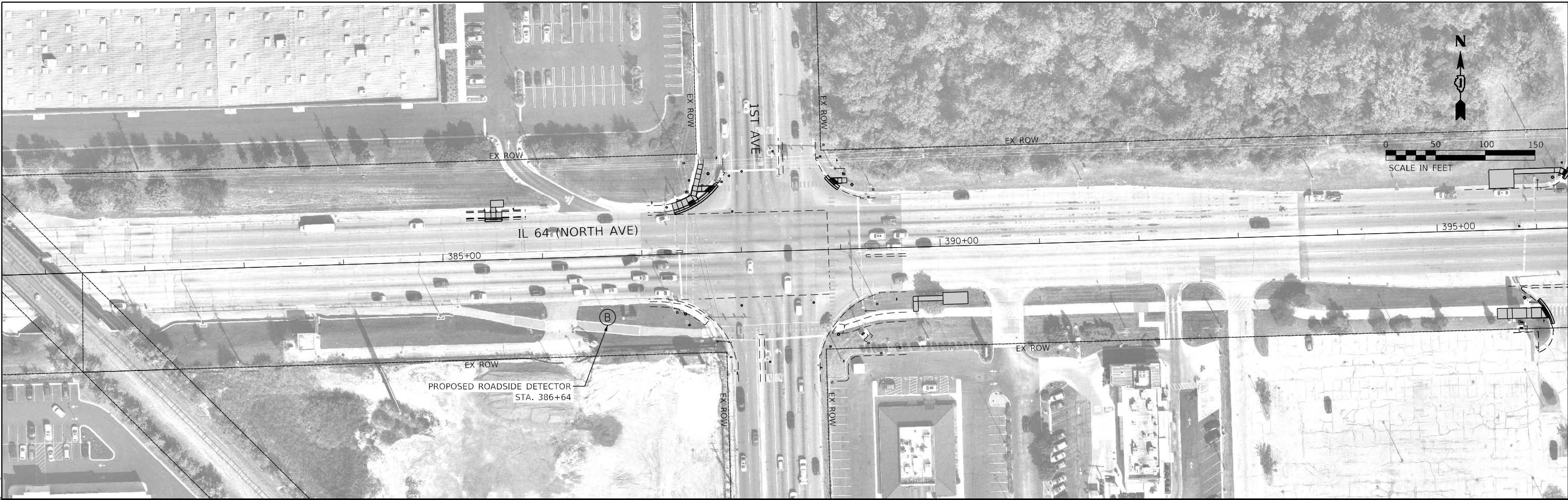
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CHECKED	- SS	REVISED	-
DATE	- 3/22/2024	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED ROADSIDE DETECTOR PLAN
IL 64 (NORTH AVE) AT 19TH AVE/BROADWAY AVE AND 9TH AVE**

SCALE: 1" = 50' SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-264-SUR, SW&TS	COOK	492	311
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				



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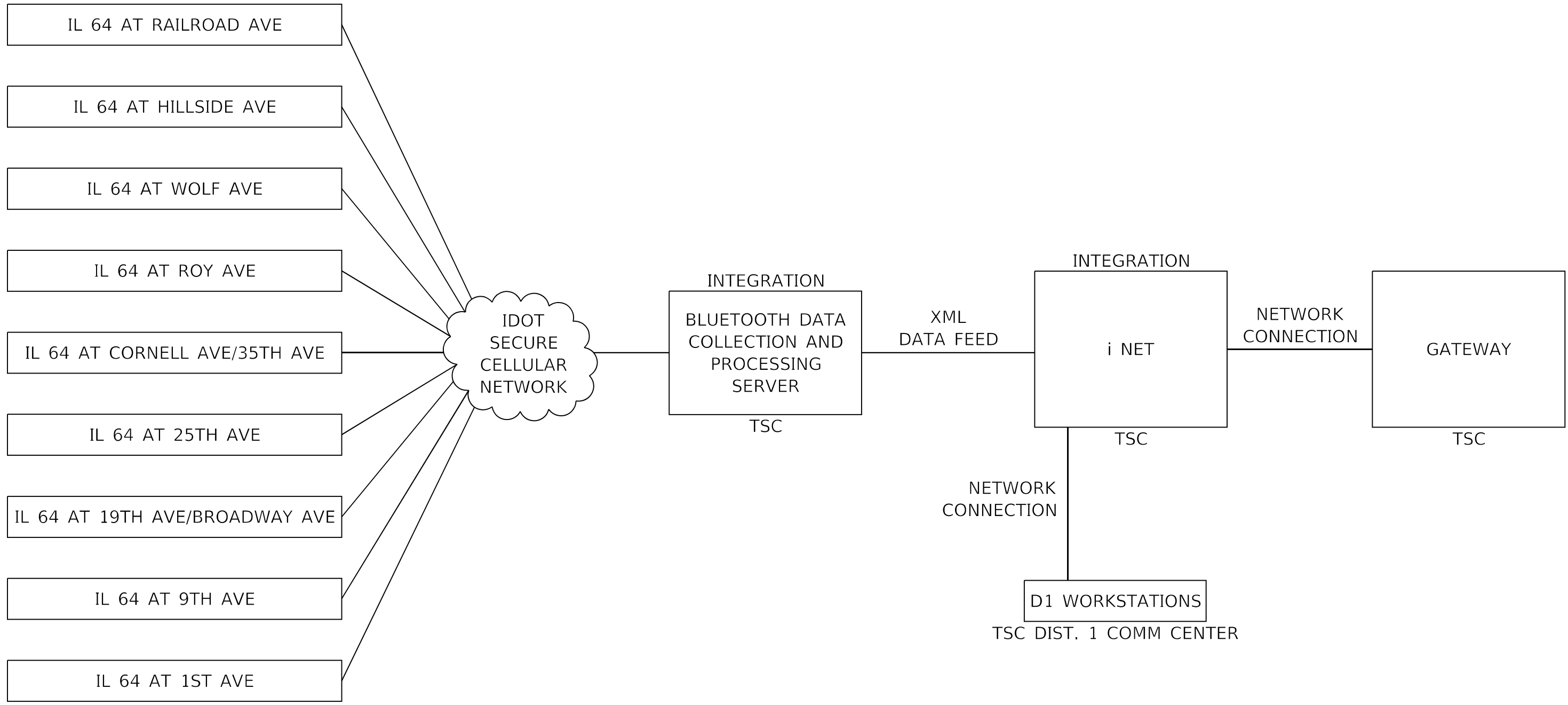
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED ROADSIDE DETECTOR PLAN
IL 64 (NORTH AVE) AT 1ST AVE**

SCALE: 1" = 50' SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-264-SUR, SW&TS	COOK	492	312
CONTRACT NO. 62N40				
ILLINOIS			FED. AID PROJECT	

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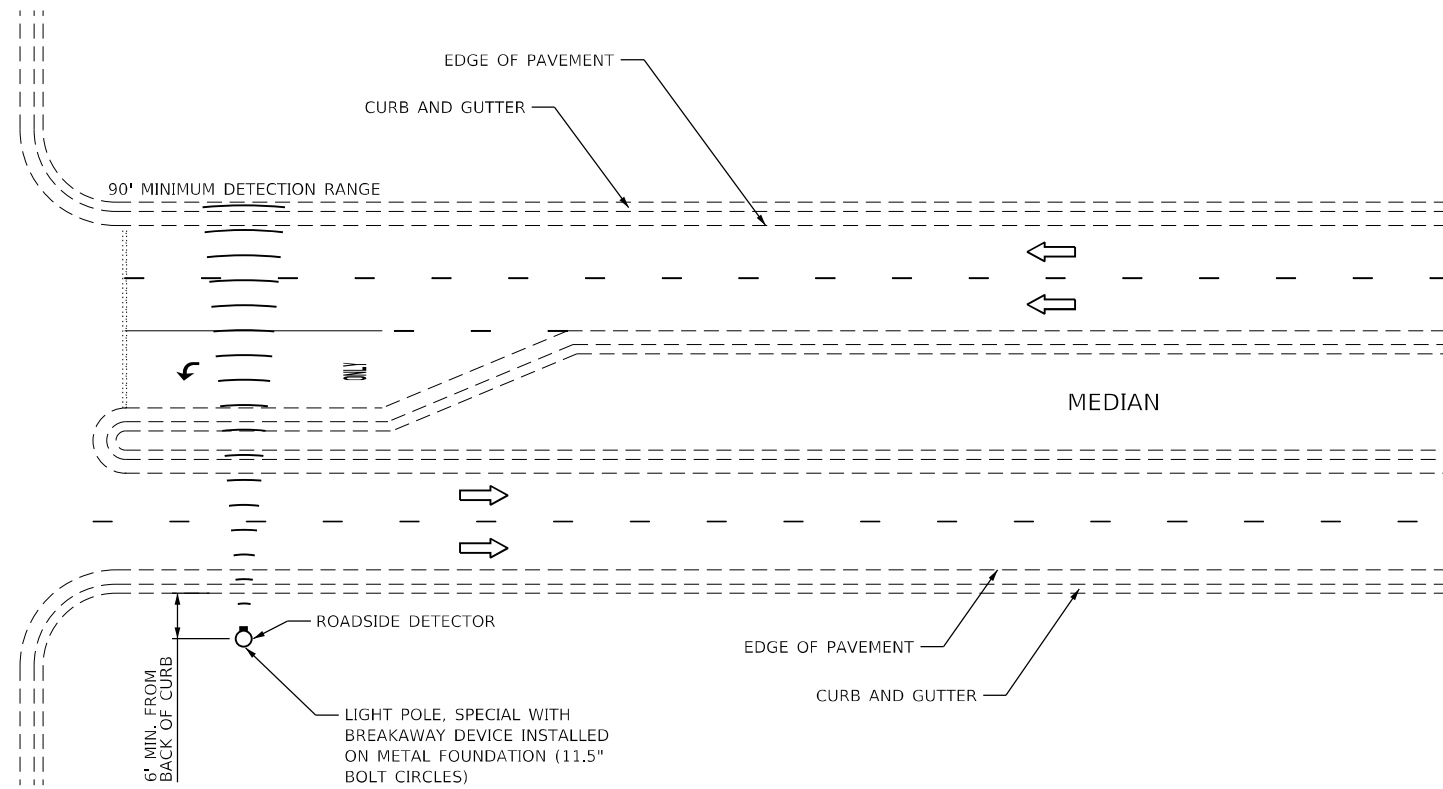


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	DRAWN - JJT	REVISED -
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PLOT DATE = 3/22/2024	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT 1 DMS AND ROADSIDE DETECTORS BLOCK DIAGRAM			
SCALE: N.T.S.	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-264-SUR, SW&TS	COOK	492	313
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				



ROADSIDE DETECTOR LOCATION (TYP)

NOT TO SCALE

NOTES:

1. THE FINAL LOCATION OF EACH ROADSIDE DETECTOR SHALL BE DETERMINED BY THE ENGINEER.

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 4001 WIMBLEDON ROAD, SUITE 600
 WARREN, ILL. 60555
 PHONE: 815.447.4500
 WWW.KIMLEY-HORN.COM



USER NAME =	JoelTurk
PLOT SCALE =	100,0000' / in.
PLOT DATE =	3/22/2024

DESIGNED -	AMK
DRAWN -	JJT
CHECKED -	SS
DATE -	3/22/2024

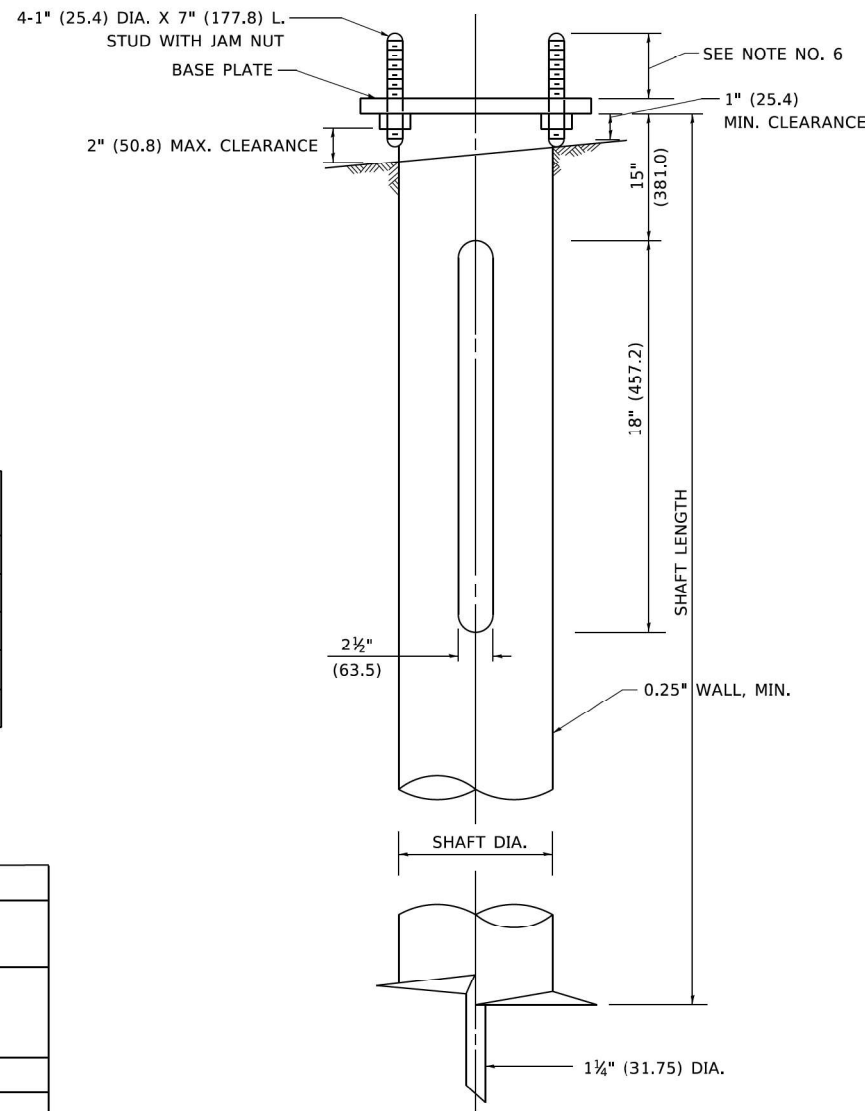
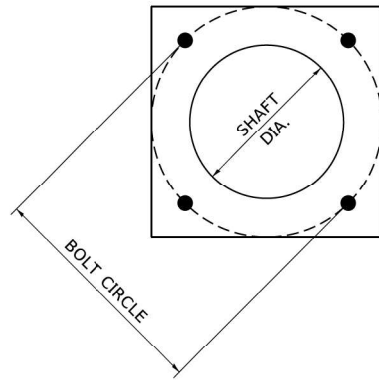
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADSIDE DETECTOR LOCATION DETAIL

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-264-SUR, SW&TS	COOK	492	314
CONTRACT NO. 62N40				
ILLINOIS			FED. AID PROJECT	



NOTES

1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1#4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS ($\pm 1^\circ$) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE ($\pm 2^\circ$).
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	11 1/2"	8 5/8"	6 FT.	12"x12"x1"
31 FT.-35 FT.	11 1/2"	8 5/8"	6 FT.	12"x12"x1"
36 FT.-40FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
41 FT.-45 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1 1/4"

METAL HELIX FOUNDATION MATERIALS

ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M. GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

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 4001 WARREN ROAD, SUITE 600
 WARREN, ILL. 62295
 PHONE: (618) 447-4555
 WWW.KH-ENR.COM



USER NAME = footemj	DESIGNED -	REVISED -
	DRAWN - DLB	REVISED -
PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 4/19/2019	DATE - 02-27-07	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LIGHT POLE FOUNDATION, METAL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	316
BE-305			CONTRACT NO. 62N40	
ILLINOIS FED. AID PROJECT				

COMMUNICATIONS GENERAL NOTES

- CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING UTILITIES, INFRASTRUCTURE, OR LANDSCAPE DISTURBED AS A RESULT OF CONDUIT AND HANDHOLE INSTALLATION ACTIVITIES. THIS WORK WILL BE CONSIDERED INCIDENTAL TO THESE INSTALLATION METHODS.
- FIBER OPTIC DISTRIBUTION AND TRUNK CABLES SHALL BE INSTALLED BETWEEN COMMUNICATIONS VAULTS AND NODE CABINETS AS SHOWN ON THE PLANS. FIBER OPTIC CABLE SLACK SHALL BE AS FOLLOWS:
 -100 FEET FOR EACH CABLE (144 AND 24 FIBER) IN COMMUNICATIONS VAULTS.
 -50 FEET FOR EACH CABLE (144 AND 24 FIBER) IN HEAVY-DUTY HANDHOLES.
- FIBER OPTIC DISTRIBUTION AND TRUNK CABLES SHALL BE INSTALLED IN COILABLE NON-METALIC CONDUIT CONTINUOUS BETWEEN VAULTS. CONDUIT SHALL BE INSTALLED BY TRENCHING OR BORING AND PULLING PER IDOT SPECIFICATION 810.04. CONDUIT MUST BE BORED AND PULLED WHEN INSTALLED UNDER A PAVED SURFACE. WHEN FIBER OPTIC CABLES ARE INSTALLED UNDER A PUBLIC STREET THE CNC SHALL BE ENCASED IN A 4" GALVANIZED STEEL CONDUIT SLEEVE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- NO END-TO-END FUSION SPLICES OF THE 144 STRAND FIBER OPTIC TRUNK CABLE SHALL BE PERMITTED UNLESS APPROVED BY THE ENGINEER. ANY END-TO-END SPLICES SHALL BE DONE IN A COMMUNICATIONS VAULT. ANY COSTS TO INSTALL ADDITIONAL COMMUNICATIONS VAULTS, SPLICE CLOSURES, AND FIBER SPLICES TO ACCOMMODATE END-TO-END SPLICING SHALL BE AT NO ADDITIONAL COST TO THE DEPARTMENT.
- ELECTRICAL CONDUIT SHALL BE INSTALLED A MINIMUM OF 30" BELOW GRADE.
- FIBER OPTIC CONDUIT SHALL BE INSTALLED A MINIMUM OF 42" BELOW GRADE UNLESS OTHERWISE DIRECTED IN THE PLANS.
- CONDUIT CROSSING OVER/UNDER OTHER UTILITIES SHALL MAINTAIN A SEPARATION OF AT LEAST 12 INCHES OR AS SPECIFIED BY OWNING UTILITY. CHICAGO DEPARTMENT OF WATER MANAGEMENT REQUIRES 18 INCHES VERTICAL SEPARATION EDGE TO EDGE. MAINTAIN 5' OF HORIZONTAL SEPARATION BETWEEN PROPOSED CONDUIT RUNS AND PARALLEL WATER AND WASTE WATER PIPES WHERE POSSIBLE.
- PROPOSED CONDUIT ROUTES SHOWN IN THE PLANS ARE SCHEMATIC ONLY. CONTRACTOR TO VERIFY EXACT ROUTE WITH THE ENGINEER.
- ALL ABANDONED CABLES AND CONDUIT SHALL COMPLY WITH NEC REQUIREMENTS.
- PROPOSED FIBER OPTIC DISTRIBUTION CABLE WILL CONNECT PROPOSED CCTV CAMERAS, PROPOSED DYNAMIC MESSAGE SIGNS, AND EXISTING TRAFFIC SIGNAL CABINETS AS SHOWN ON THE PLANS.
- PROPOSED JUNCTION BOXES THROUGH WHICH FIBER OPTIC CABLE IS INSTALLED SHALL BE 42"x36"x12" UNLESS SHOWN OTHERWISE. THE MINIMUM SIZE JUNCTION BOX FOR FIBER OPTIC CABLE OR ELECTRICAL CABLES SHALL BE 24"x24"x8".
- PAY ITEMS FOR JUCTION BOXES AND CONDUIT ATTACHED TO STRUCTURE ARE INCLUSIVE OF ALL MOUNTING AND MISCELLANEOUS HARDWARE.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL JULIE AT 811, OR (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED. WHEN WITHIN THE CITY OF CHICAGO'S CORPORATE LIMITS ALSO CALL 811 OR (312) 744-7000.
- IDOT FACILITIES ARE NOT LOCATED BY JULIE OR DIGGER. IDOT ELECTRICAL FACILITIES INCLUDING ROADWAY LIGHTING, FIBER OPTIC, ITS EQUIPMENT, TRAFFIC SIGNAL AND PUMP STATION FACILITIES ARE LOCATED BY THE DEPARTMENT'S ELECTRICAL MAINTENANCE CONTRACTOR. AS OF THE LETTING DATE, CONTACT THE MEADE ELECTRIC COMPANY AT (773) 287-7672.
- ALIGNMENT SHOWN ON PLANS IS FOR RELATIVE REFERENCE PURPOSES ONLY. THE ALIGNMENT BASELINE IS NOT TIED TO ANY FIXED POINT.
- NOMENCLATURE FOR HANDHOLES, COMMUNICATIONS VAULTS, AND FIBER OPTIC CABLES IS BASED UPON USING THE KANE/DUPAGE COUNTY LINE AT SMITH ROAD AND IL-64 AS THE ZERO MILE MARKER POINT. ALL INFRASTRUCTURE AND CABLE NAMES ARE BASED OFF THIS POINT PROGRESSING EAST. THE INTERSECTION OF IL-64 AT NORTH AVENUE (PROJECT START) IS MP 16.75.
- CONTRACTOR SHALL VERIFY THE FIBER COUNT AND TYPE OF FIBER OPTIC CABLE USED FOR EXISTING TRAFFIC SIGNAL INTERCONNECTS PRIOR TO BE BEGINNING ANY WORK. ANY EXISTING 36-STRAND HYBRID MULTIMODE/SINGLE MODE FIBER OPTIC CABLE SHALL REMAIN IN PLACE AND BE REUSED. ALL OTHER TYPES OF SIZE AND TYPE FIBER OPTIC CABLES FOR TRAFFIC SIGNAL INTERCONNECT SHALL BE REMOVED AND REPLACED AS SHOWN ON THE PLANS.

COMMUNICATIONS ABBREVIATIONS AND ACRONYMS

NOTATION	DESCRIPTION
(A)	ABANDON
ALUM	ALUMINUM
ATS	ATTACHED TO STRUCTURE
CAT-6	CATEGORY 6
CCH	CONNECTOR CLOSET HOUSING
CCTV	CLOSED CIRCUIT TELEVISION
CHH	COMMUNICATIONS HANDHOLE
CMS	CHANGEABLE MESSAGE SIGN (REVLAC)
CMV	COMMUNICATIONS VAULT
CNC	COILABLE NONMETALLIC CONDUIT
COMM	COMMUNICATIONS
DCF	DISTRIBUTION CABLE FIBER (ASSET IDENTIFICATION TAG)
DIA.	DIAMETER
DMS	DYNAMIC MESSAGE SIGN
EB	EASTBOUND
ECC	ELECTRICAL CABLE IN CONDUIT
EHH	ELECTRICAL HANDHOLE
ELEC	ELECTRICAL
EMC	ELECTRICAL MAINTENANCE CONTRACTOR
EOP	EDGE OF PAVEMENT
EOS	EDGE OF SHOULDER
EOT	EDGE OF TRAVEL WAY
(E)	EXISTING
FO	FIBER OPTIC
FOC	FIBER OPTIC CABLE
FT.	FEET
GND	GROUND
(GRN)	GREEN
GS	GALVANIZED STEEL
GSC	GALVANIZED STEEL CONDUIT (RIGID)
HD	HIGH DEFINITION
HDHH	HEAVY-DUTY HANDHOLE
HH	HANDHOLE
(I)	INSTALL
IN.	INCHES
IP	INTERNET PROTOCOL
ITS	INTELLIGENT TRANSPORTATION SYSTEMS
ISTHA	ILLINOIS STATE TOLL HIGHWAY AUTHORITY
LCDOT	LAKE COUNTY DIVISION OF TRANSPORTATION
LCF	LATER CABLE FIBER (ASSET IDENTIFICATION TAG)
LED	LIGHT-EMITTING DIODE
LT	LEFT
MM	MULTIMODE
MOT	MAINTENANCE OF TRAFFIC
NEC	NATIONAL ELECTRICAL CODE
NB	NORTHBOUND
PGSC	PVC COATED GALVANIZED STEEL CONDUIT
PTZ	PAN TILT ZOOM CAMERA
(R)	REMOVE
ROW	RIGHT-OF-WAY
SFP	SMALL FORM-FACTOR PLUGGABLE (FIBER OPTIC TRANSCEIVER)
SM	SINGLE MODE
SB	SOUTHBOUND
S.P.	SPECIAL PROVISION
SS	STAINLESS STEEL
SSC	STAINLESS STEEL CONDUIT
STA.	STATION
TCF	TRUNK CABLE FIBER (ASSET IDENTIFICATION TAG)
TEMP	TEMPORARY
TSCC	TRAFFIC SIGNAL CONTROLLER CABINET
WB	WESTBOUND

COMM PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
----	----	RIGHT-OF-WAY
=====	=====	CONDUIT FOR TRAFFIC SIGNAL INTERCONNECT CABLE
- FO -	- FO -	CONDUIT FOR TRUNK, DISTRIBUTION, AND LATERAL FIBER OPTIC CABLE
	==FO==	CONDUIT FOR TRUNK, DISTRIBUTION, AND LATERAL FIBER OPTIC CABLE INSTALLED UNDER ROADWAY PAVEMENT (SEE NOTE BELOW)
- E -	- E -	CONDUIT FOR ELECTRICAL CABLE
J	J	BARRIER WALL EMBEDDED JUNCTION BOX (TYPE J)
ⓐ	ⓐ	STRUCTURE-MOUNTED JUNCTION BOX (SIZE AS NOTED)
ⓐ	ⓐ	HANDHOLE (COMMUNICATIONS)
ⓐ	ⓐ	HANDHOLE (ELECTRICAL)
ⓐ	ⓐ	HANDHOLE (MIXED USE)
ⓐ	ⓐ	COMMUNICATIONS VAULT
DMS	DMS	DYNAMIC MESSAGE SIGN
ⓐ	ⓐ	CCTV CAMERA, PTZ
ⓐ	ⓐ	ITS OR TRAFFIC SIGNAL CABINET
ⓐ	ⓐ	UTILITY SERVICE POLE
ⓐ	ⓐ	POLE-MOUNTED COMED TRANSFORMER
ⓐ	ⓐ	GROUND MOUNTED COMED TRANSFORMER
ⓐ	ⓐ	UTILITY SERVICE METER

LEGEND NOTES:

- CONDUIT SHOWN INSTALLED UNDER PAVEMENT MAY HAVE SEPARATE CALLOUTS DEPENDING ON IF THE STEEL CONDUIT IS ACTING AS A CASING FOR MICRODUCT OR AS A DIRECT PATHWAY. SEE SHEET SPECIFIC CALLOUTS FOR DETAILS.
- EXISTING CONDUIT FOR TRAFFIC SIGNAL INTERCONNECT CABLE IS NOT CALLED OUT ON THE "COMMUNICATIONS INSTALLATION PLANS" FOR CLARITY.

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 PROJECT: 2020-263-SUR-SW&TS
 SHEET: 317 OF 317



USER NAME = jhelTurk	DESIGNED - CH	REVISED -
	DRAWN - JT	REVISED -
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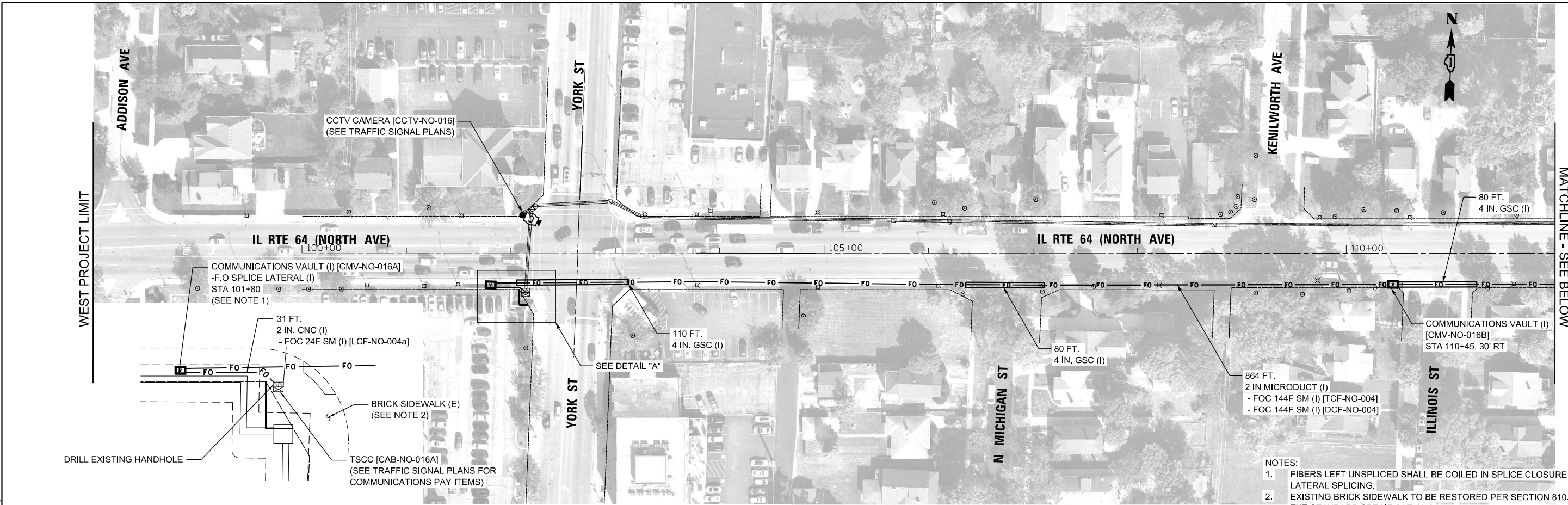
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COMMUNICATIONS GENERAL NOTES, ABBREVIATIONS, AND LEGEND

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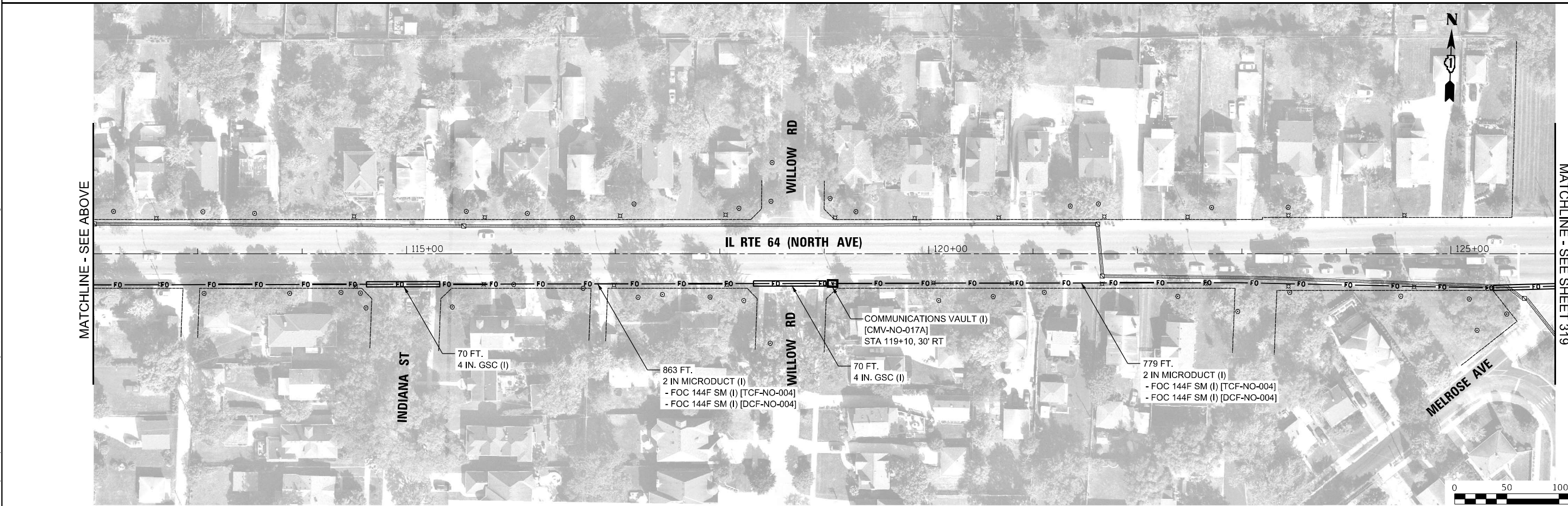
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR-SW&TS	COOK/DUPAGE	492	317
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				

COM-01



DETAIL A

- NOTES:
1. FIBERS LEFT UNSPLICED SHALL BE COILED IN SPLICE CLOSURE USED FOR LATERAL SPLICING.
 2. EXISTING BRICK SIDEWALK TO BE RESTORED PER SECTION 810.04 OF THE STANDARD SPECIFICATIONS



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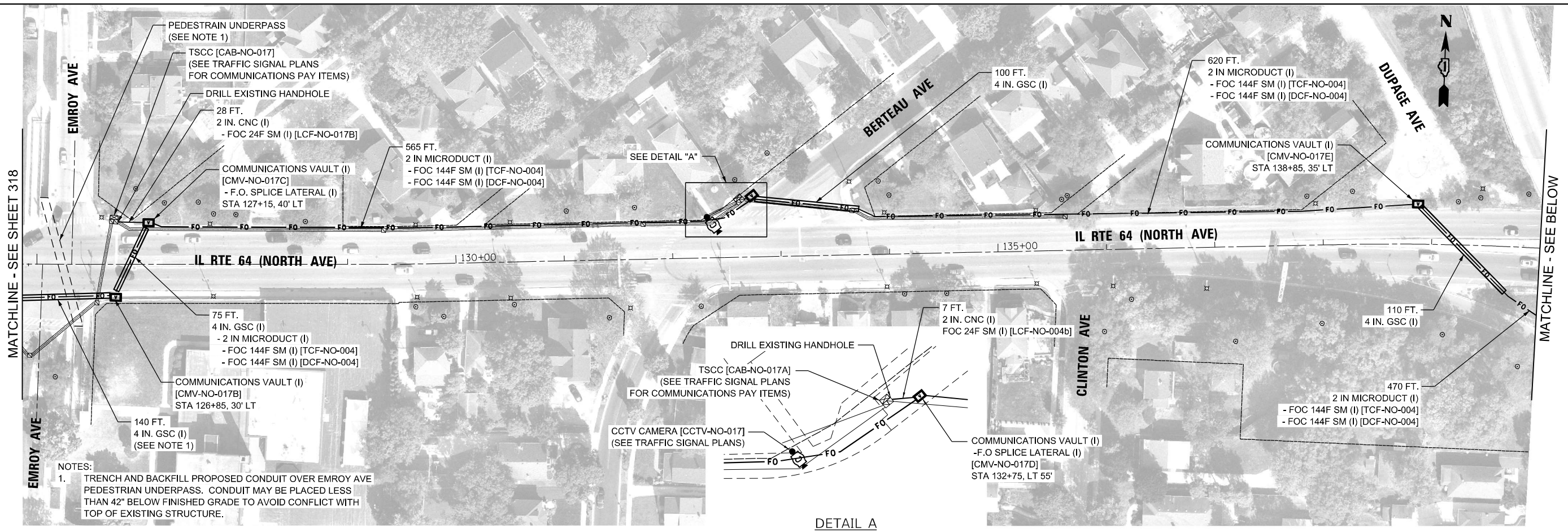
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COMMUNICATIONS INSTALLATION PLANS

SCALE: 1" = 50' SHEET 1 OF 17 SHEETS STA. TO STA.

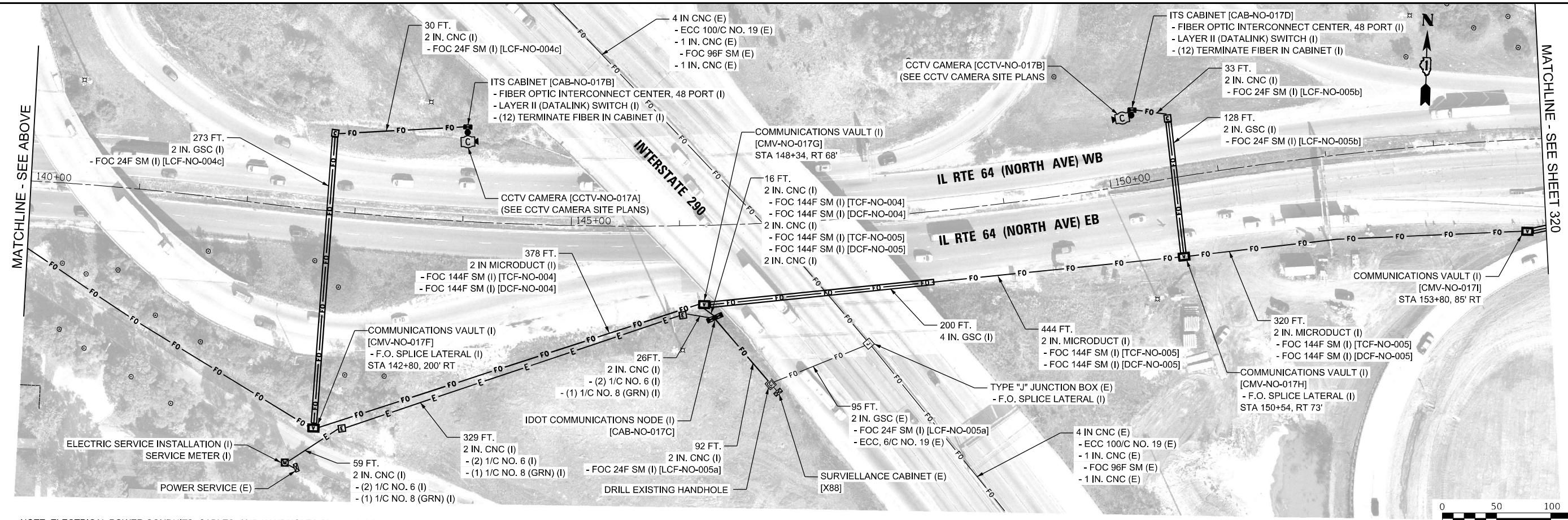
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307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	318
			CONTRACT NO. 62N40	
		ILLINOIS	FED. AID PROJECT	

COM-02



NOTES:
 1. TRENCH AND BACKFILL PROPOSED CONDUIT OVER EMROY AVE PEDESTRIAN UNDERPASS. CONDUIT MAY BE PLACED LESS THAN 42" BELOW FINISHED GRADE TO AVOID CONFLICT WITH TOP OF EXISTING STRUCTURE.

DETAIL A



NOTE: ELECTRICAL POWER CONDUITS, CABLES, AND HANDHOLES SERVING CCTV CAMERA SITES NOT SHOWN FOR CLARITY. SEE 'SITE INSTALLATION PLANS (DMS/CCTV, TIE-IN)' FOR DETAILS.



COM-03

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

COMMUNICATIONS INSTALLATION PLANS

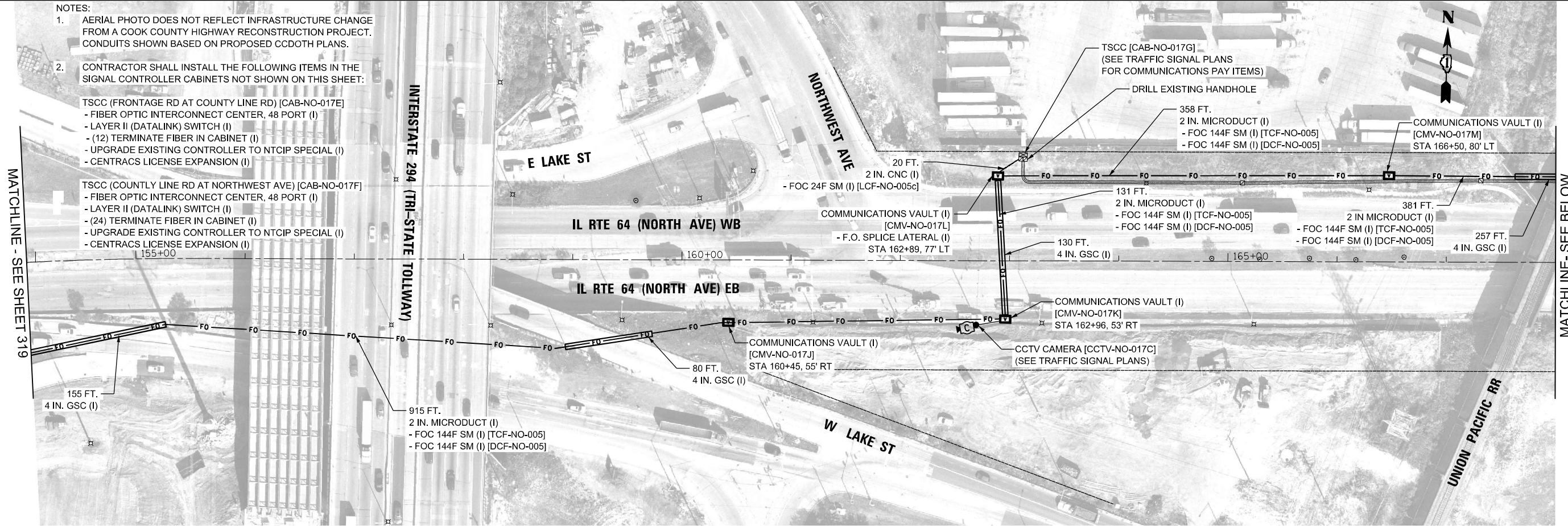
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	319
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N40	

- NOTES:
1. AERIAL PHOTO DOES NOT REFLECT INFRASTRUCTURE CHANGE FROM A COOK COUNTY HIGHWAY RECONSTRUCTION PROJECT. CONDUITS SHOWN BASED ON PROPOSED CCDOH PLANS.
 2. CONTRACTOR SHALL INSTALL THE FOLLOWING ITEMS IN THE SIGNAL CONTROLLER CABINETS NOT SHOWN ON THIS SHEET:

TSSC (FRONTAGE RD AT COUNTY LINE RD) [CAB-NO-017E]
 - FIBER OPTIC INTERCONNECT CENTER, 48 PORT (I)
 - LAYER II (DATALINK) SWITCH (I)
 - (12) TERMINATE FIBER IN CABINET (I)
 - UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL (I)
 - CENTRACS LICENSE EXPANSION (I)

TSSC (COUNTY LINE RD AT NORTHWEST AVE) [CAB-NO-017F]
 - FIBER OPTIC INTERCONNECT CENTER, 48 PORT (I)
 - LAYER II (DATALINK) SWITCH (I)
 - (24) TERMINATE FIBER IN CABINET (I)
 - UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL (I)
 - CENTRACS LICENSE EXPANSION (I)



155 FT.
4 IN. GSC (I)

915 FT.
2 IN. MICRODUCT (I)
- FOC 144F SM (I) [TCF-NO-005]
- FOC 144F SM (I) [DCF-NO-005]

80 FT.
4 IN. GSC (I)

20 FT.
2 IN. CNC (I)
- FOC 24F SM (I) [LCF-NO-005c]

COMMUNICATIONS VAULT (I) [CMV-NO-017L]
- F.O. SPLICE LATERAL (I)
STA 162+89, 77' LT

COMMUNICATIONS VAULT (I) [CMV-NO-017K]
STA 162+96, 53' RT

CCTV CAMERA [CCTV-NO-017C]
(SEE TRAFFIC SIGNAL PLANS)

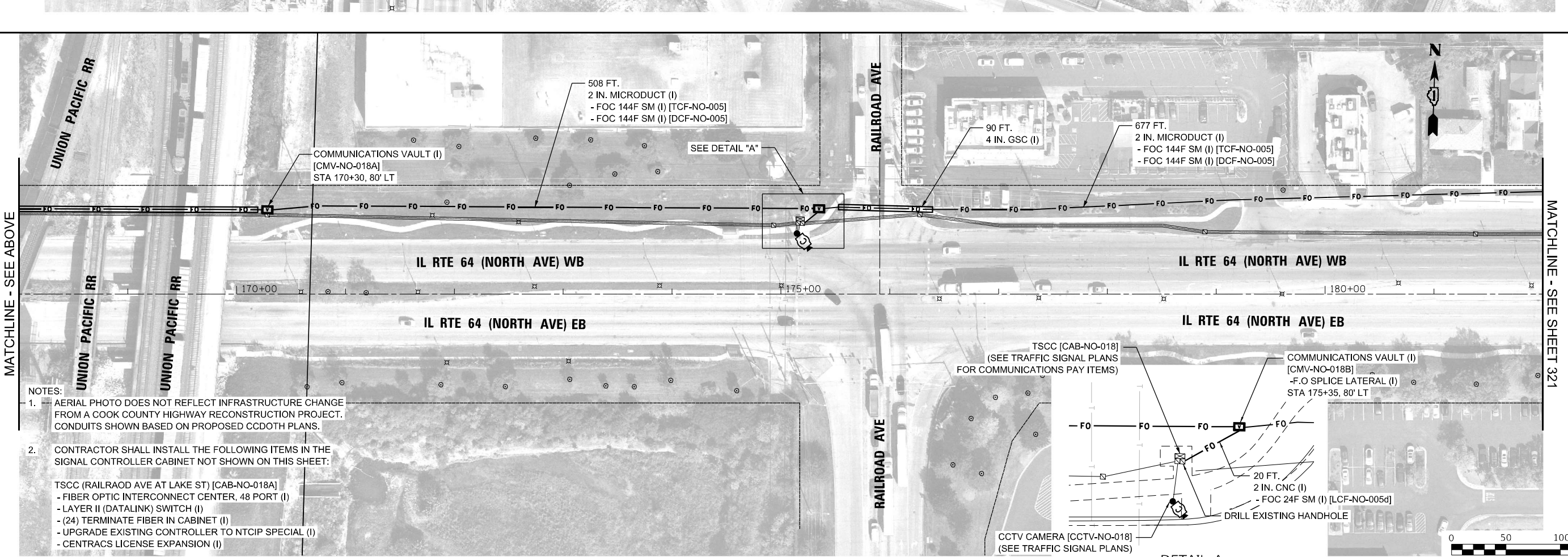
358 FT.
2 IN. MICRODUCT (I)
- FOC 144F SM (I) [TCF-NO-005]
- FOC 144F SM (I) [DCF-NO-005]

COMMUNICATIONS VAULT (I) [CMV-NO-017M]
STA 166+50, 80' LT

131 FT.
2 IN. MICRODUCT (I)
- FOC 144F SM (I) [TCF-NO-005]
- FOC 144F SM (I) [DCF-NO-005]

2 IN MICRODUCT (I)
- FOC 144F SM (I) [TCF-NO-005]
- FOC 144F SM (I) [DCF-NO-005]

257 FT.
4 IN. GSC (I)



- NOTES:
1. AERIAL PHOTO DOES NOT REFLECT INFRASTRUCTURE CHANGE FROM A COOK COUNTY HIGHWAY RECONSTRUCTION PROJECT. CONDUITS SHOWN BASED ON PROPOSED CCDOH PLANS.
 2. CONTRACTOR SHALL INSTALL THE FOLLOWING ITEMS IN THE SIGNAL CONTROLLER CABINET NOT SHOWN ON THIS SHEET:

TSSC (RAILROAD AVE AT LAKE ST) [CAB-NO-018A]
 - FIBER OPTIC INTERCONNECT CENTER, 48 PORT (I)
 - LAYER II (DATALINK) SWITCH (I)
 - (24) TERMINATE FIBER IN CABINET (I)
 - UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL (I)
 - CENTRACS LICENSE EXPANSION (I)

508 FT.
2 IN. MICRODUCT (I)
- FOC 144F SM (I) [TCF-NO-005]
- FOC 144F SM (I) [DCF-NO-005]

COMMUNICATIONS VAULT (I) [CMV-NO-018A]
STA 170+30, 80' LT

SEE DETAIL "A"

TSSC [CAB-NO-018]
(SEE TRAFFIC SIGNAL PLANS FOR COMMUNICATIONS PAY ITEMS)

COMMUNICATIONS VAULT (I) [CMV-NO-018B]
- F.O SPLICE LATERAL (I)
STA 175+35, 80' LT

CCTV CAMERA [CCTV-NO-018]
(SEE TRAFFIC SIGNAL PLANS)

20 FT.
2 IN. CNC (I)
- FOC 24F SM (I) [LCF-NO-005d]

DETAIL A

SCALE IN FEET

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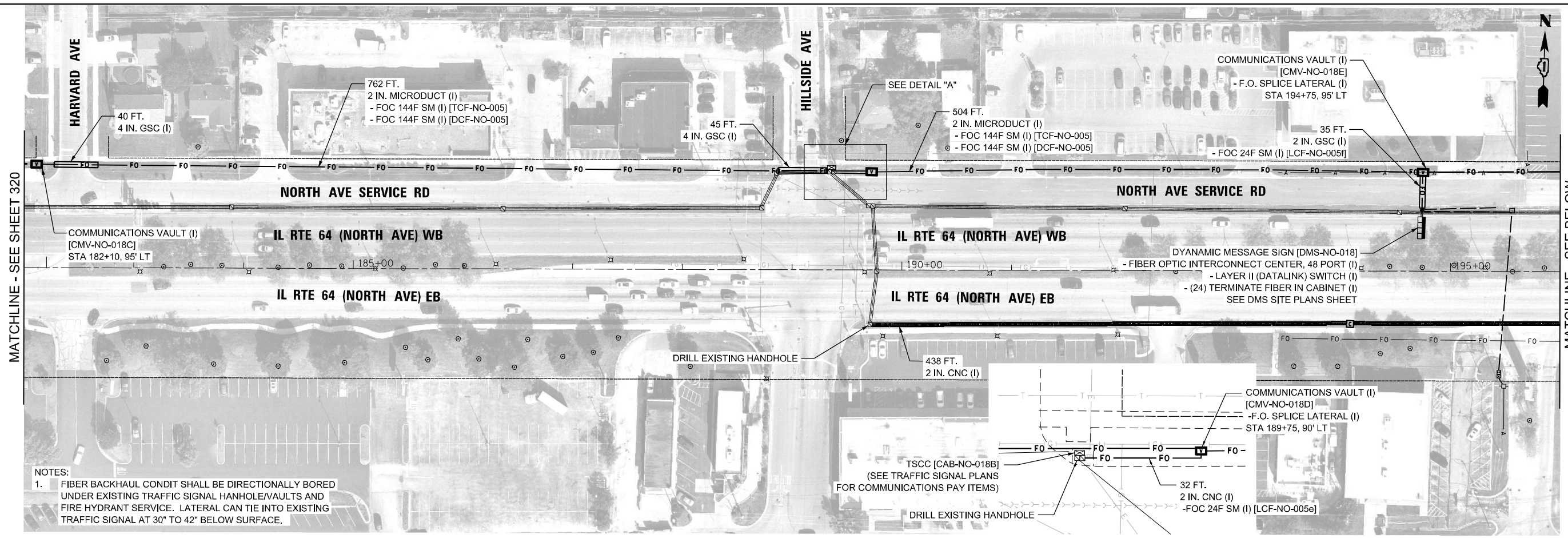
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMMUNICATIONS INSTALLATION PLANS

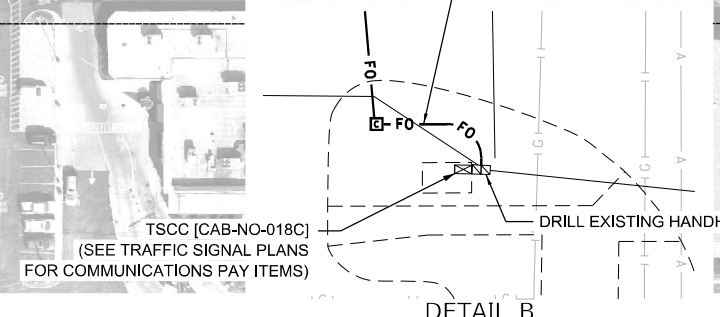
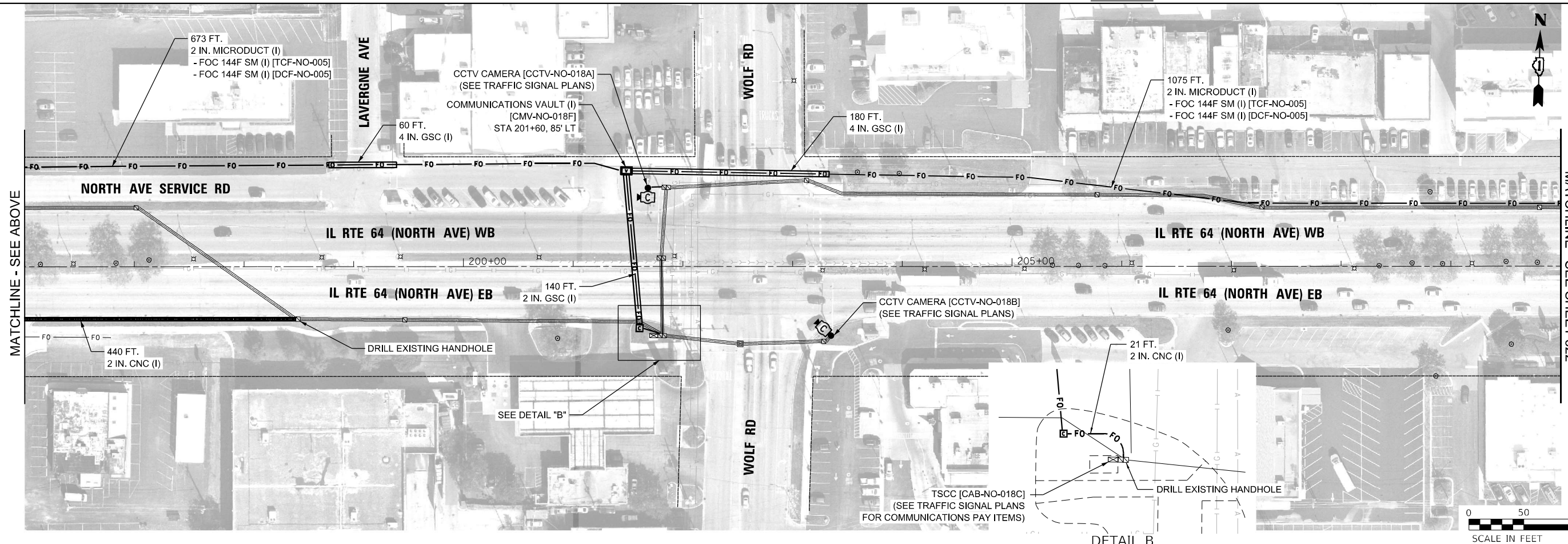
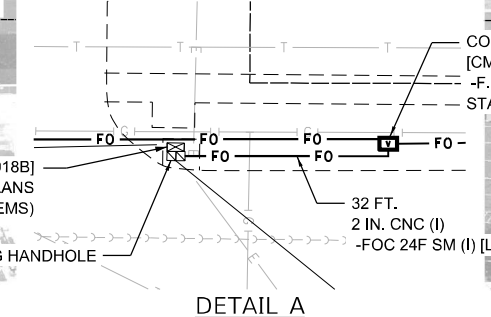
SCALE: 1" = 50' SHEET 3 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	320
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N40	

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USER: jloerlurk



NOTES:
1. FIBER BACKHAUL CONDUIT SHALL BE DIRECTIONALLY BORED UNDER EXISTING TRAFFIC SIGNAL HANHOLE/VAULTS AND FIRE HYDRANT SERVICE. LATERAL CAN TIE INTO EXISTING TRAFFIC SIGNAL AT 30" TO 42" BELOW SURFACE.



USER NAME = jloerlurk	DESIGNED - CH	REVISED -
DRAWN - JT	REVISED -	
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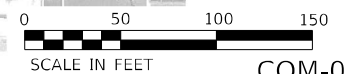
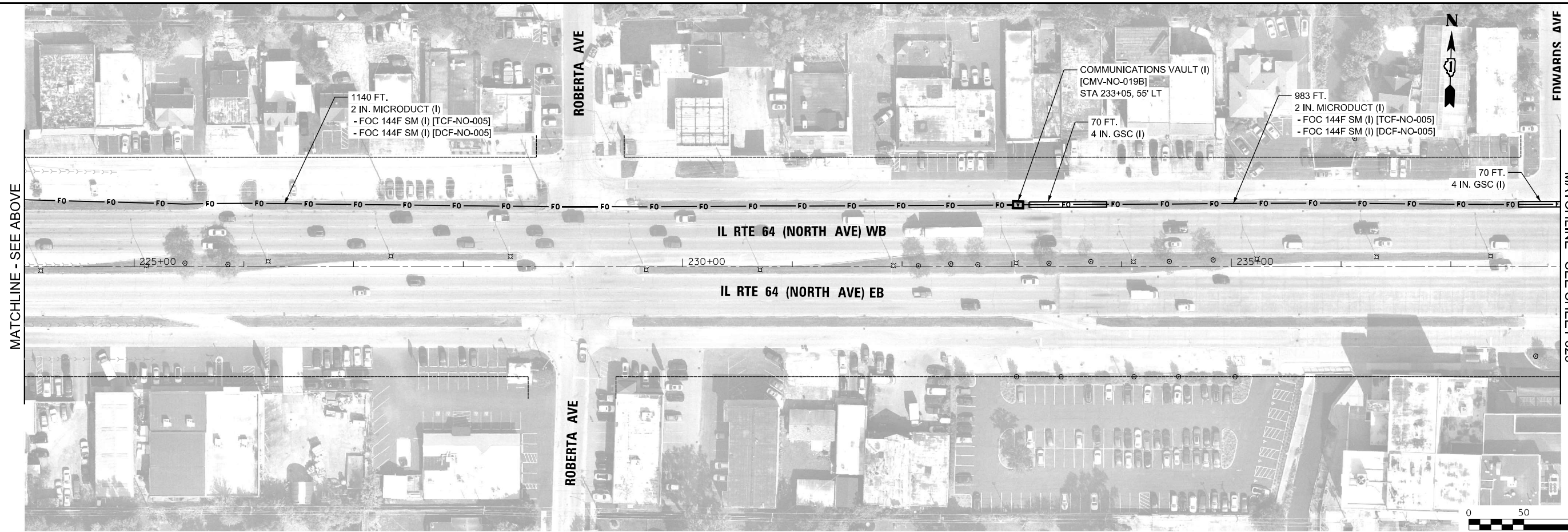
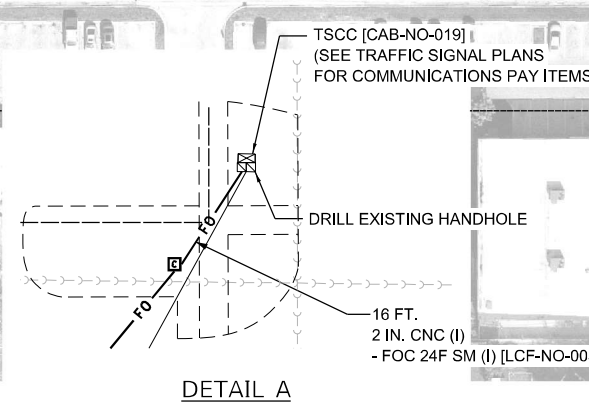
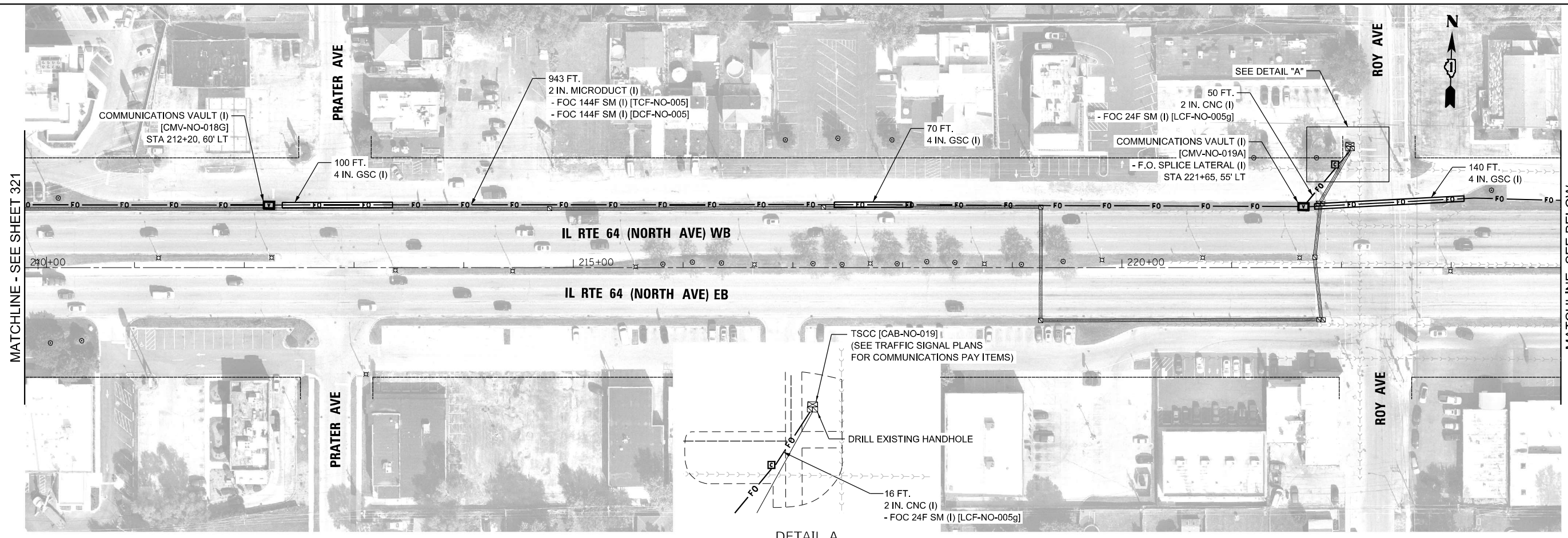
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COMMUNICATIONS INSTALLATION PLANS
SCALE: 1" = 50'
SHEET 4 OF 17 SHEETS
STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	321
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N40	

COM-05

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

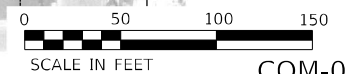
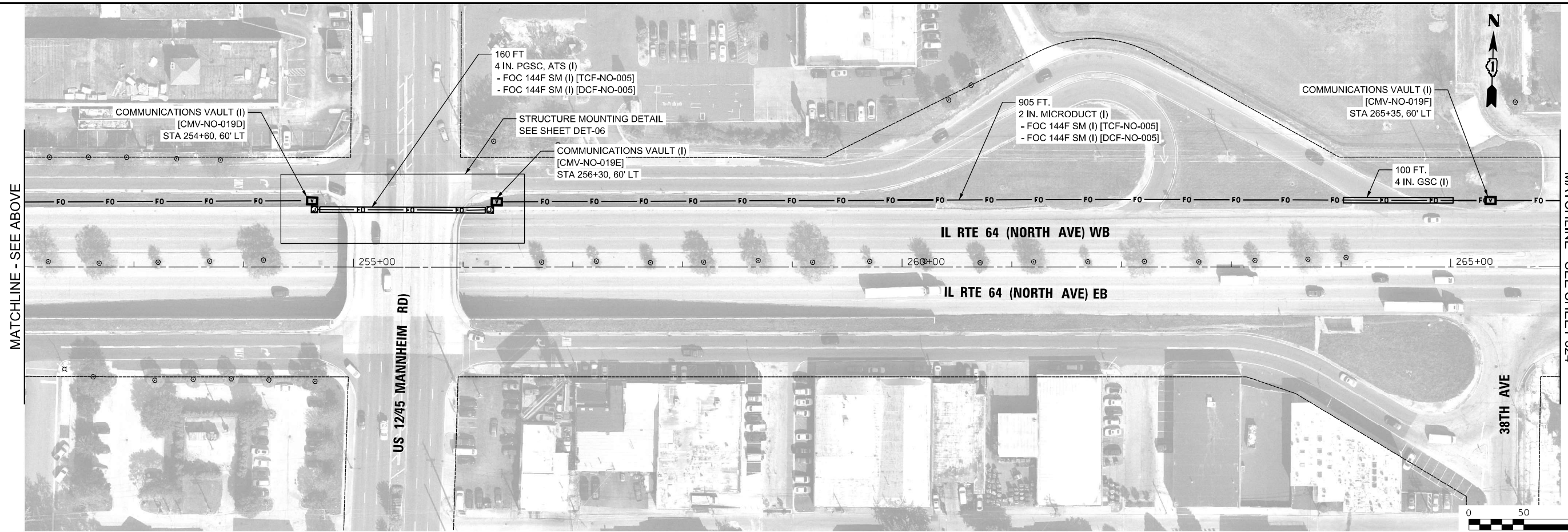
COMMUNICATIONS INSTALLATION PLANS

SCALE: 1" = 50' SHEET 5 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	322
			CONTRACT NO. 62N40	
		ILLINOIS	FED. AID PROJECT	

COM-06

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	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

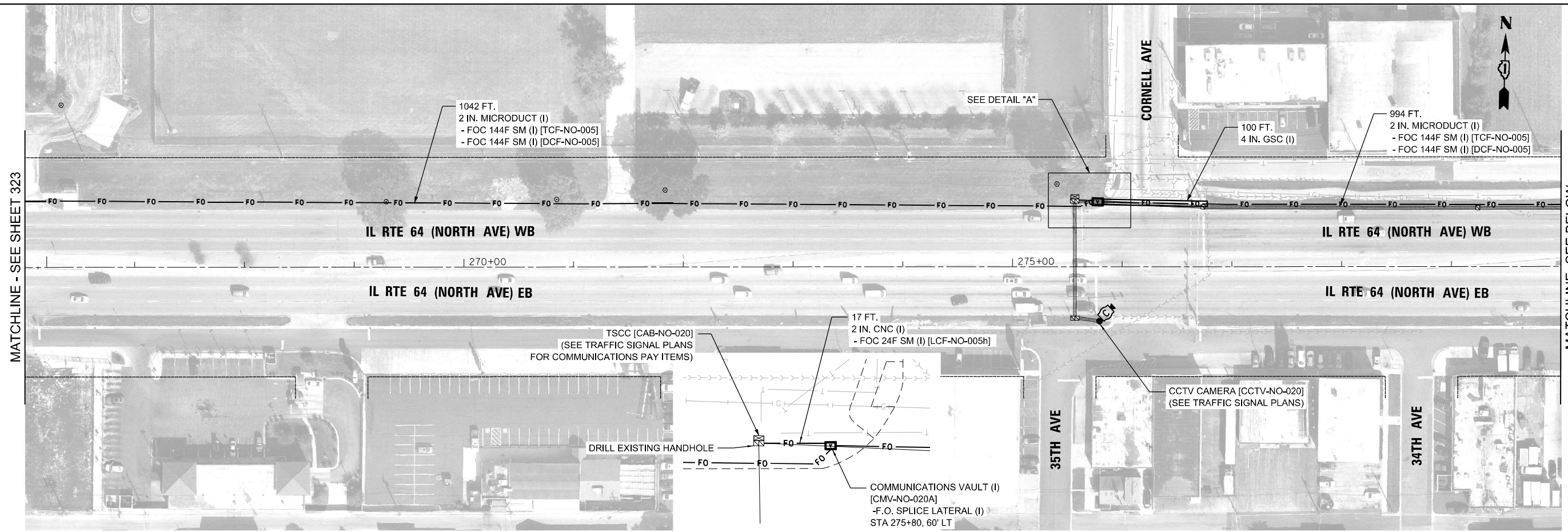
COMMUNICATIONS INSTALLATION PLANS

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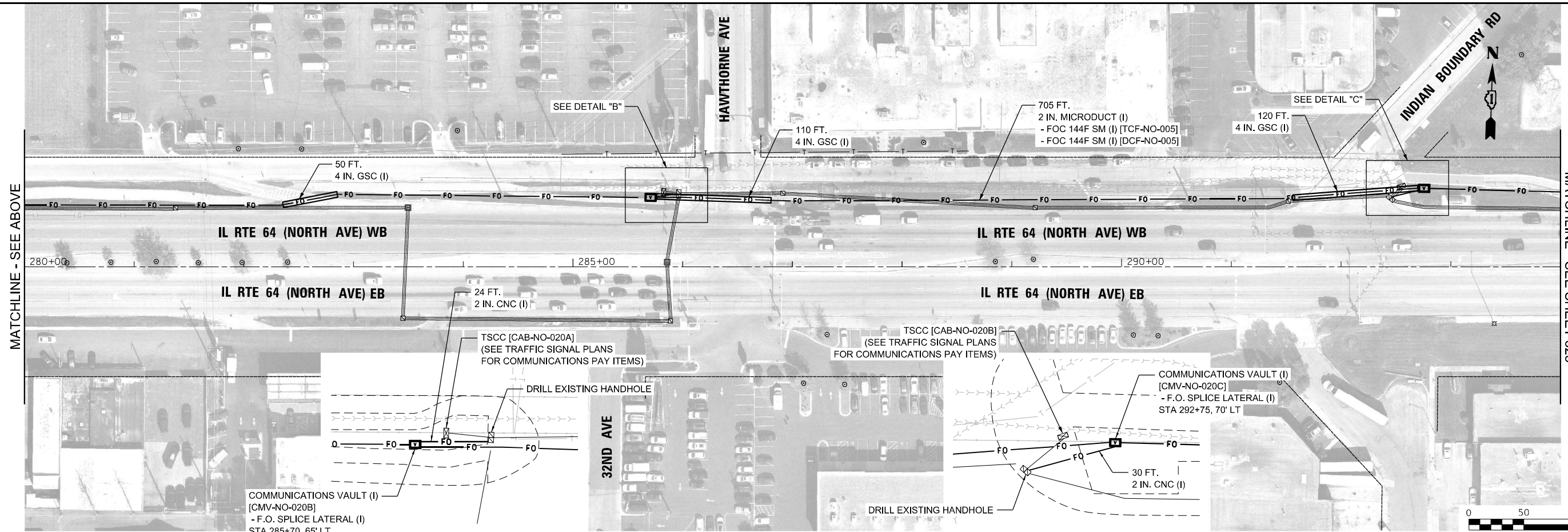
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N40	

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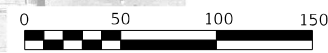


DETAIL A



DETAIL B

DETAIL C



SCALE IN FEET COM-08



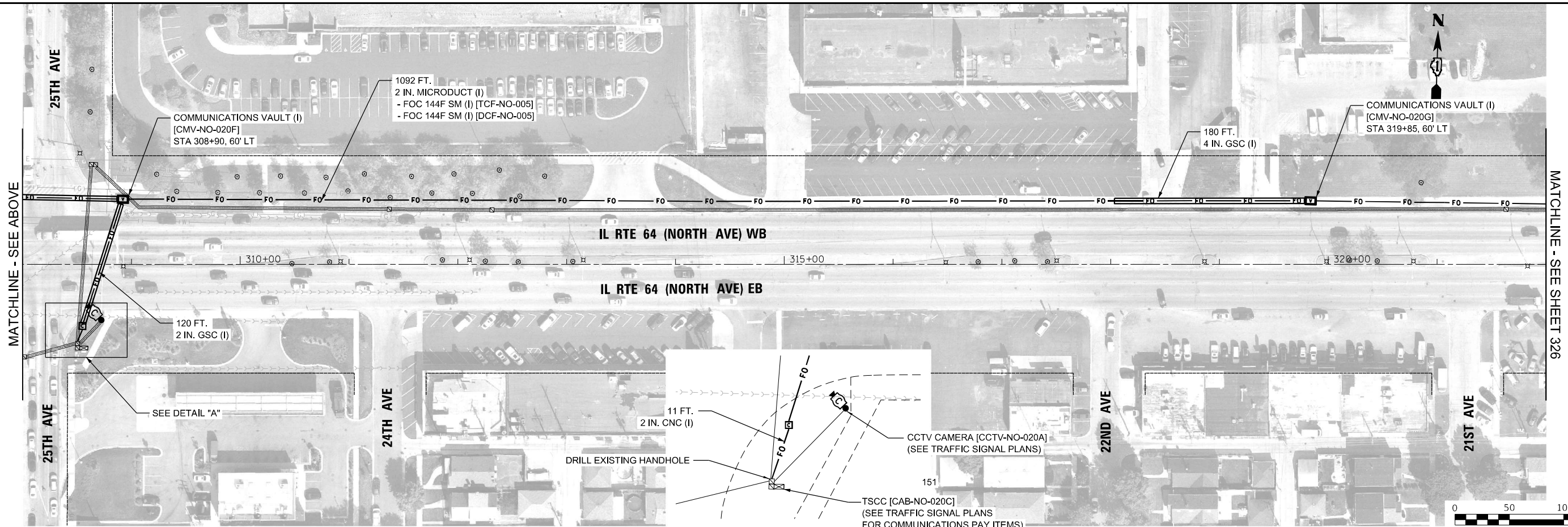
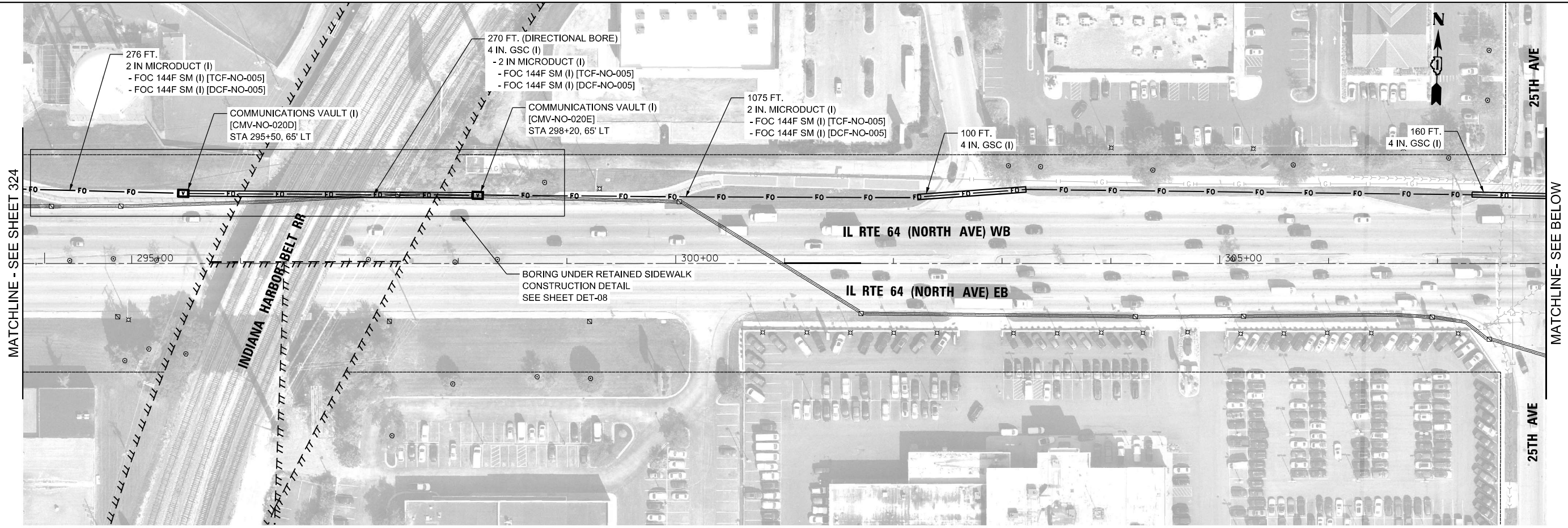
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PLOT DATE = 3/22/2024	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COMMUNICATIONS INSTALLATION PLANS

SCALE: 1" = 50' SHEET 7 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	324
ILLINOIS / FED. AID PROJECT			CONTRACT NO. 62N40	



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USER NAME = joel.turk	DESIGNED - CH	REVISED -
	DRAWN - JT	REVISED -
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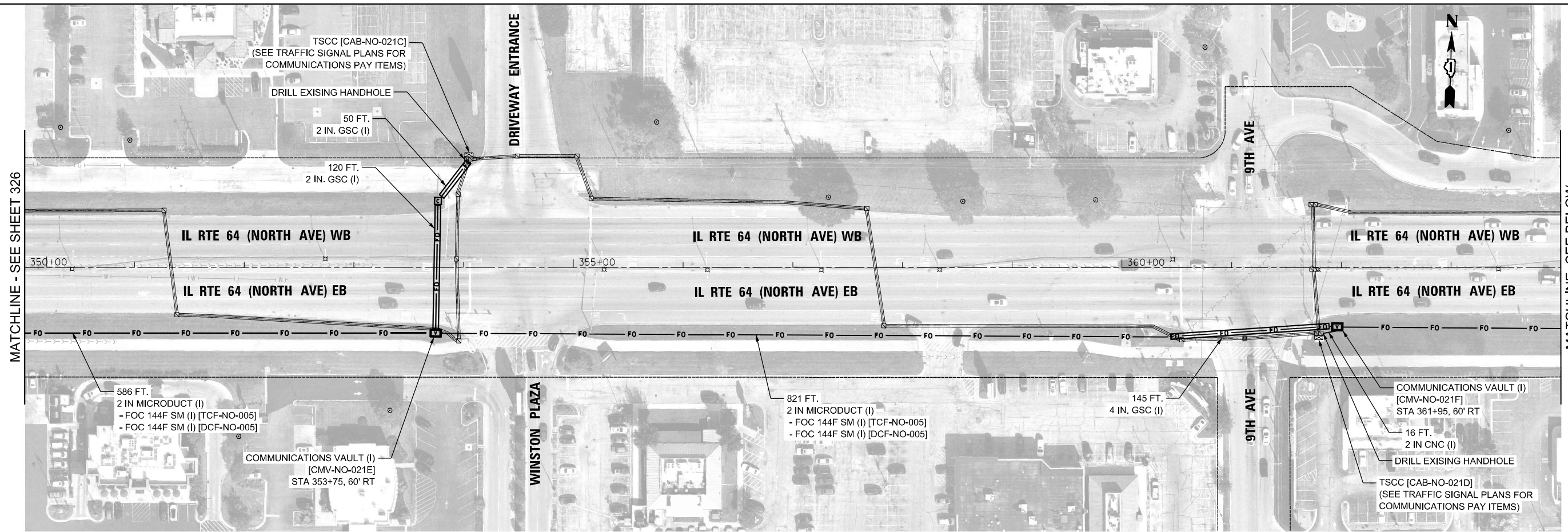
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COMMUNICATIONS INSTALLATION PLANS

SCALE: 1" = 50' SHEET 8 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	325
ILLINOIS FED. AID PROJECT				CONTRACT NO. 62N40

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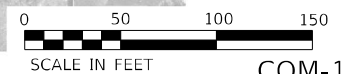
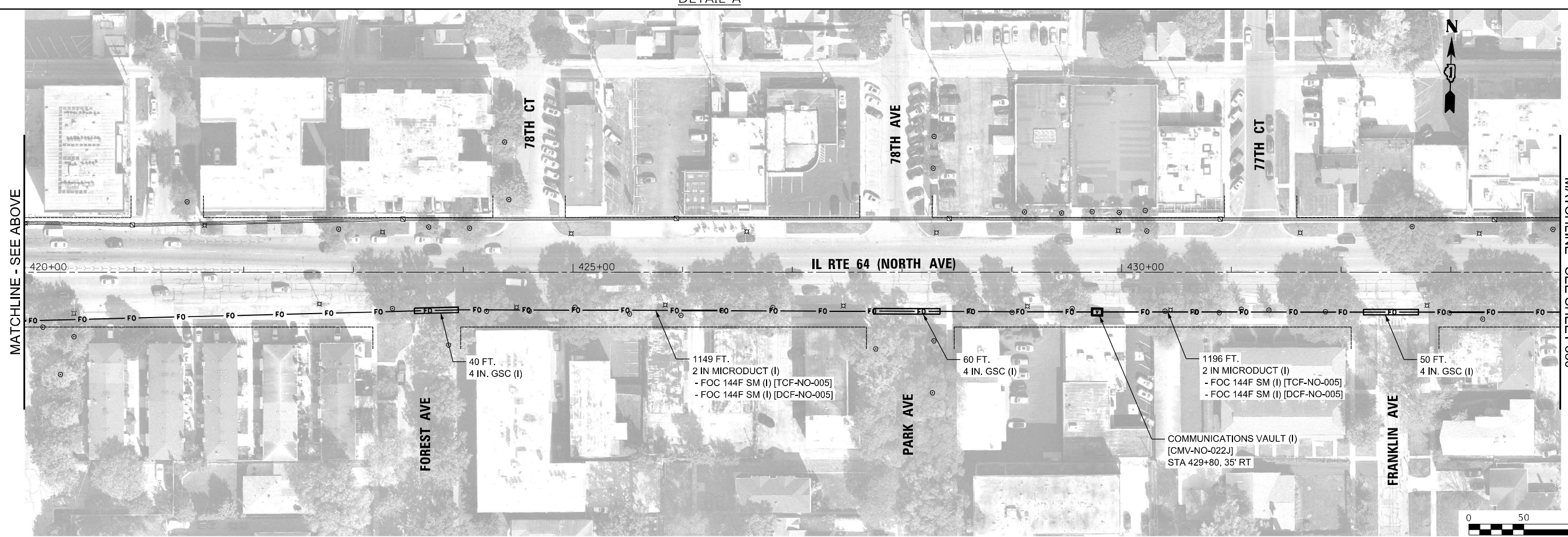
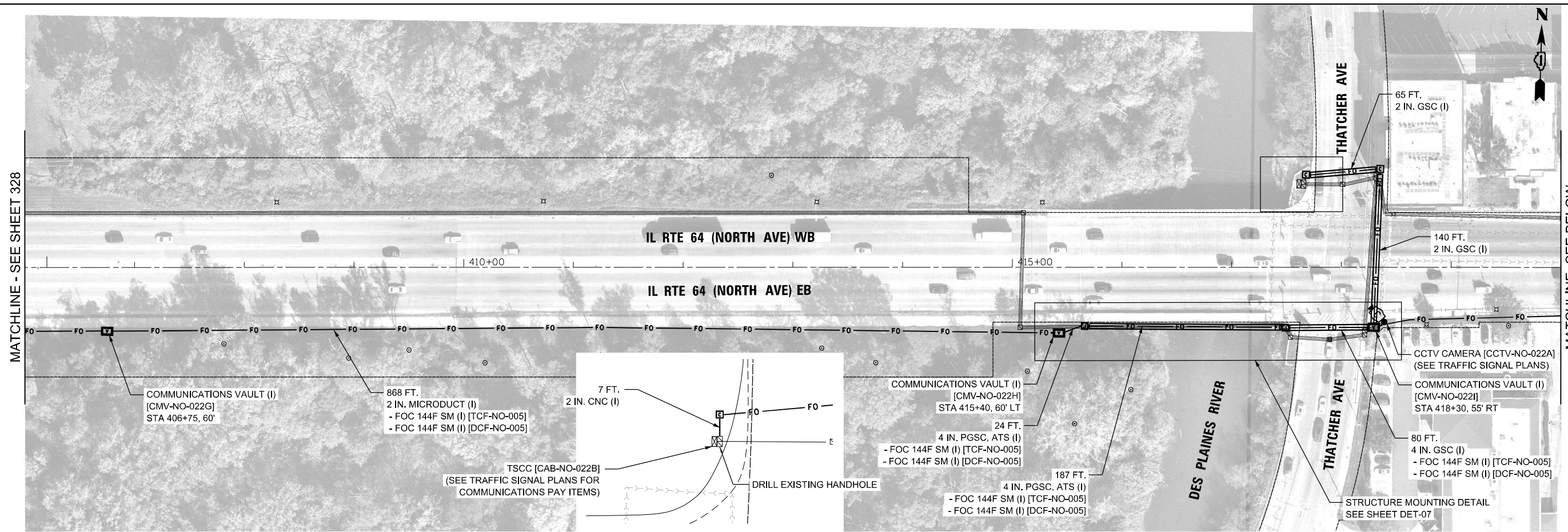
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

COMMUNICATIONS INSTALLATION PLANS

SCALE: 1" = 50' SHEET 10 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	327
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N40	

COM-11



COM-13

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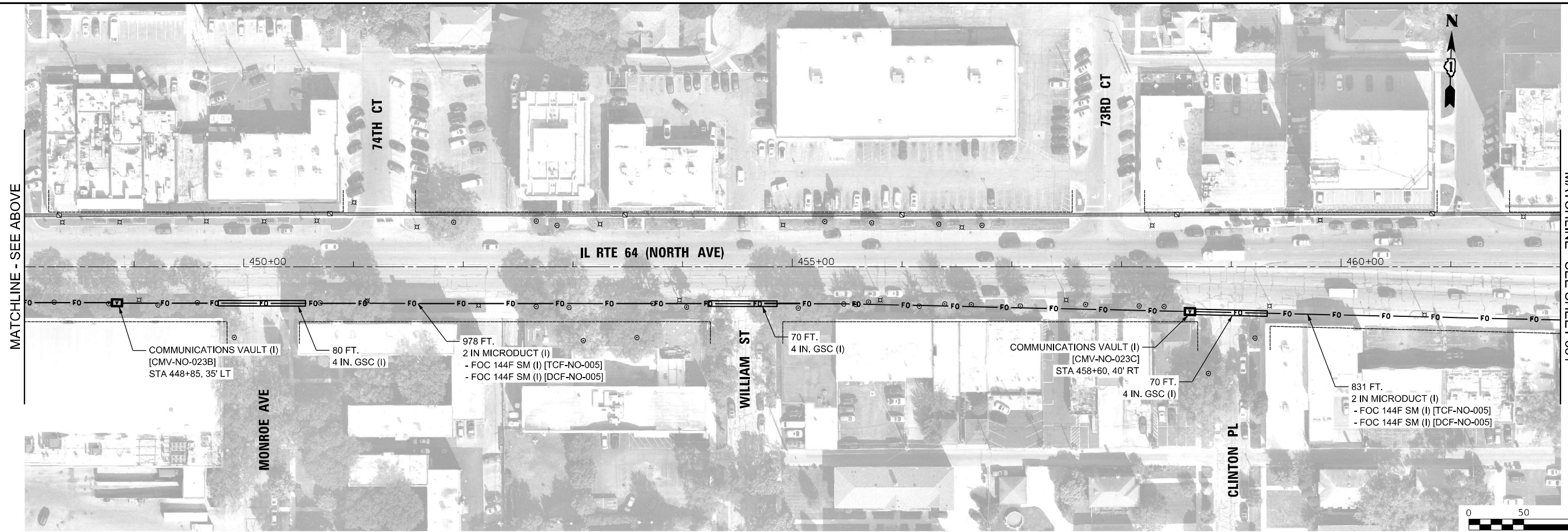
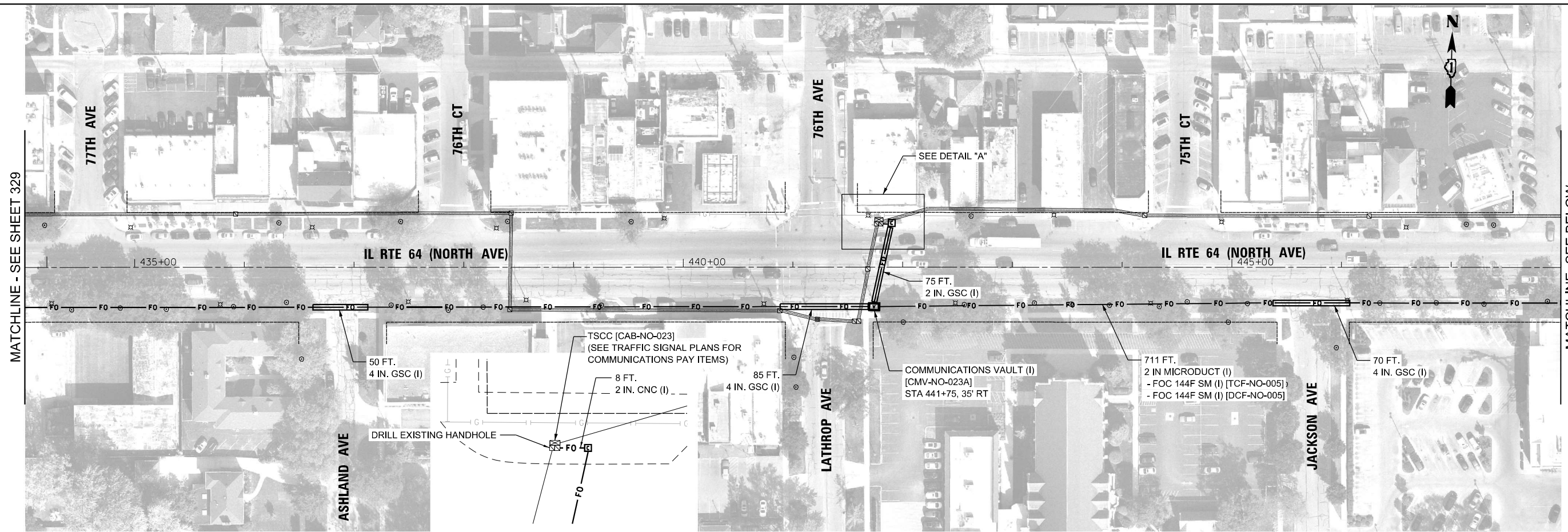
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COMMUNICATIONS INSTALLATION PLANS

SCALE: 1" = 50' SHEET 12 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	329
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N40	



COM-14

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Jacobs

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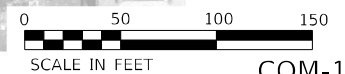
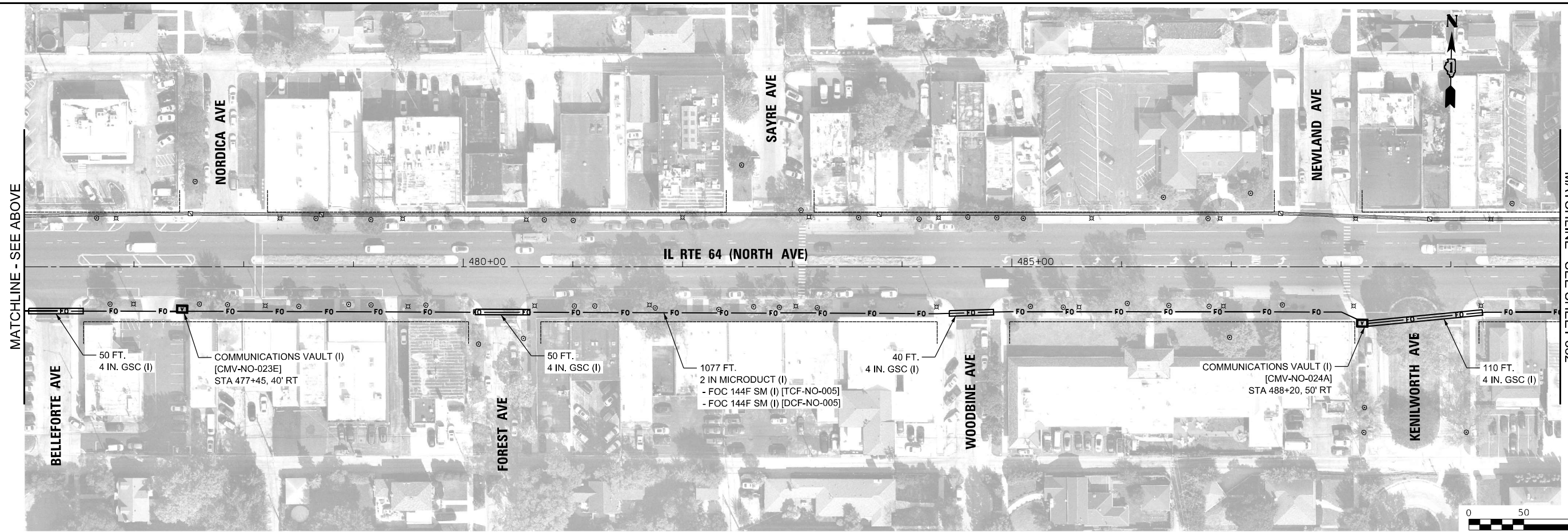
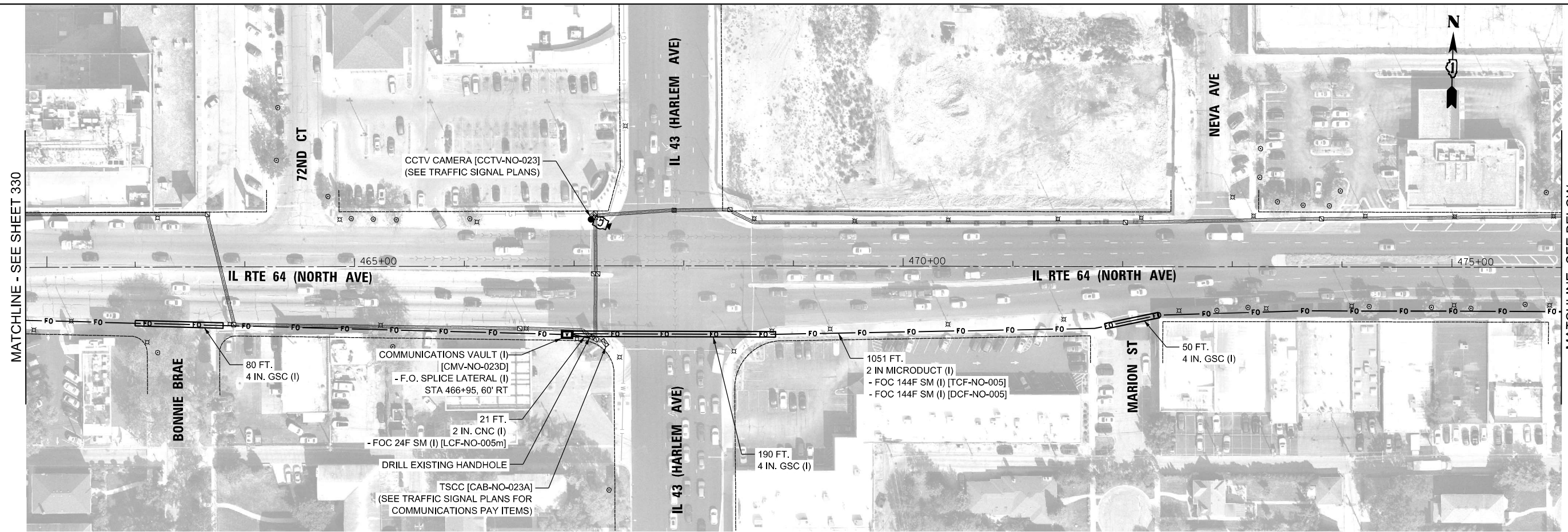
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COMMUNICATIONS INSTALLATION PLANS

SCALE: 1" = 50' SHEET 13 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	330
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N40	

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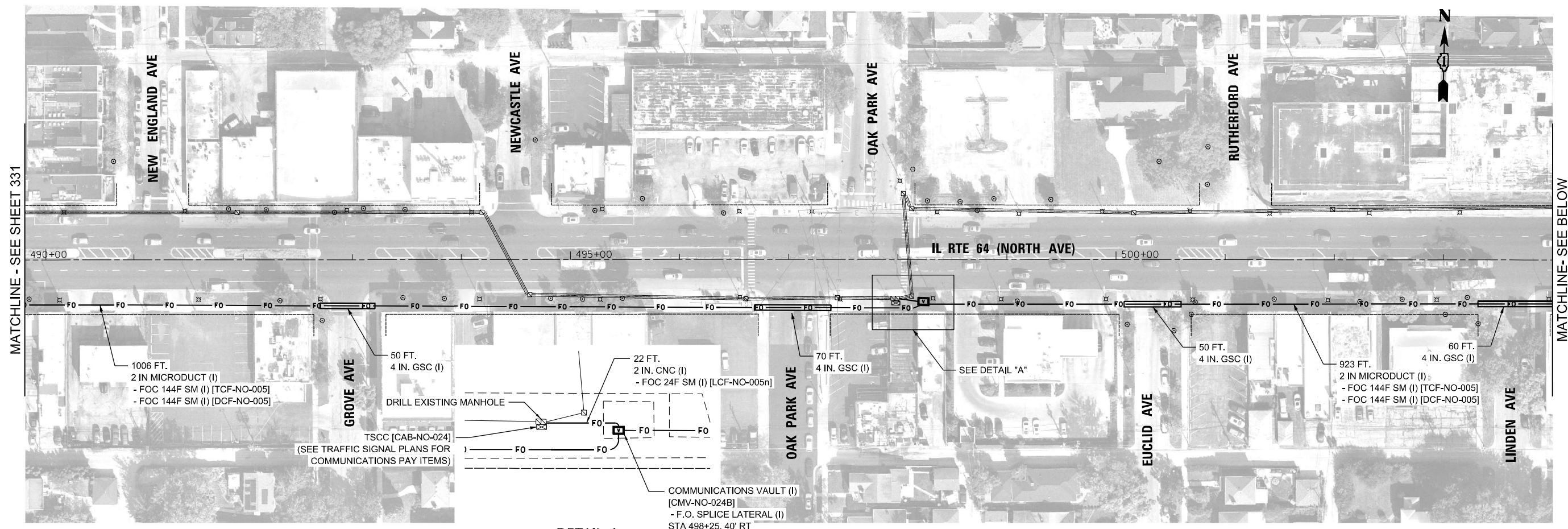
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

COMMUNICATIONS INSTALLATION PLANS

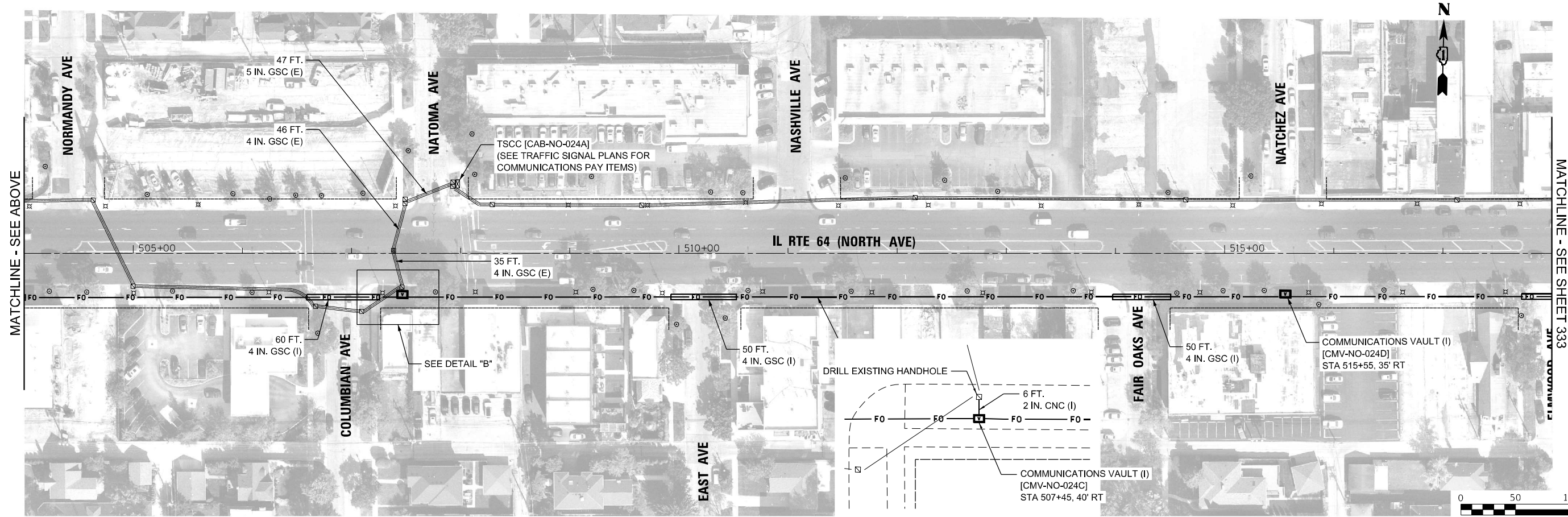
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F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK/DUPAGE	TOTAL SHEETS 492	SHEET NO. 331
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N40	

COM-15



DETAIL A



DETAIL B

SCALE IN FEET

COM-16

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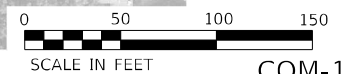
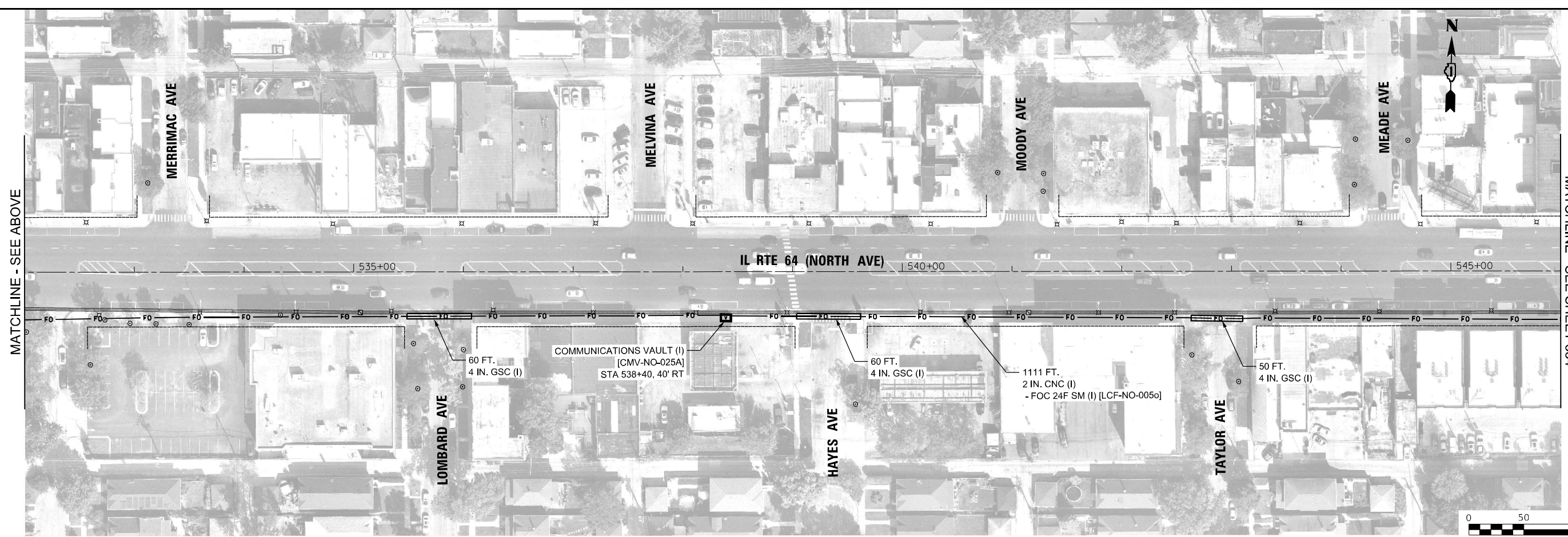
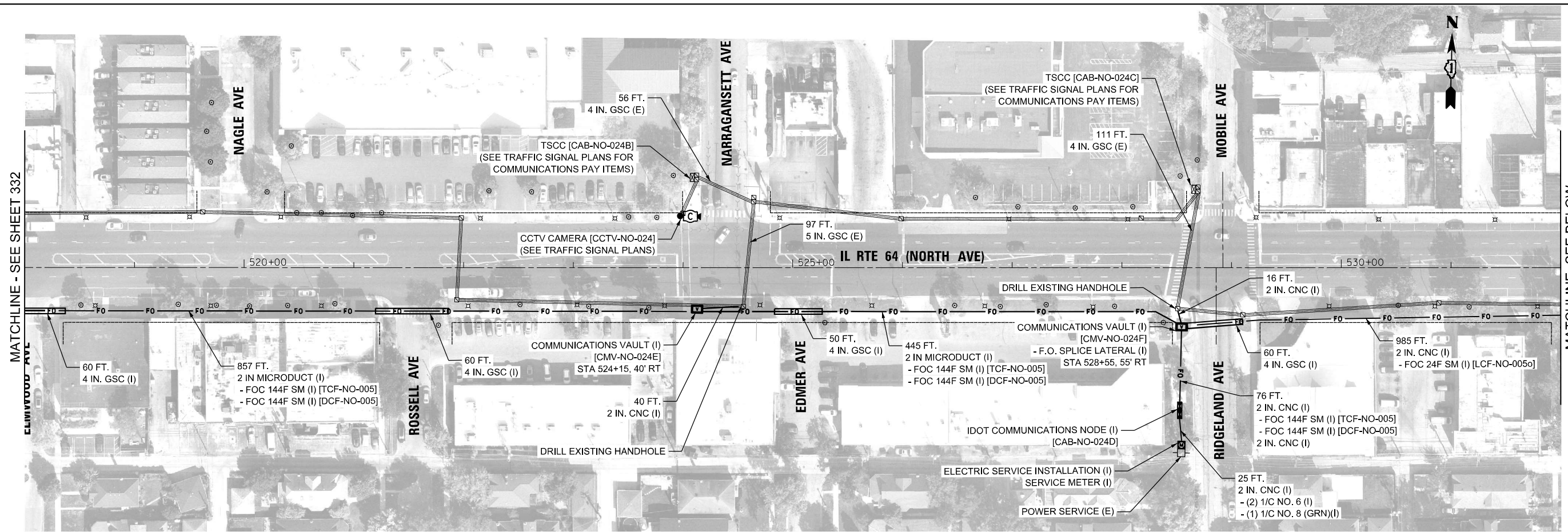
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COMMUNICATIONS INSTALLATION PLANS

SCALE: 1" = 50' SHEET 15 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	332
			CONTRACT NO. 62N40	
		ILLINOIS FED. AID PROJECT		



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USER NAME = joel.turk
PLOT SCALE = 100,0000' / in.
PLOT DATE = 3/22/2024

DESIGNED - CH	REVISD -
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DATE - 3/22/2024	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

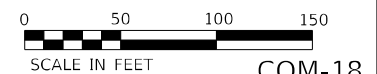
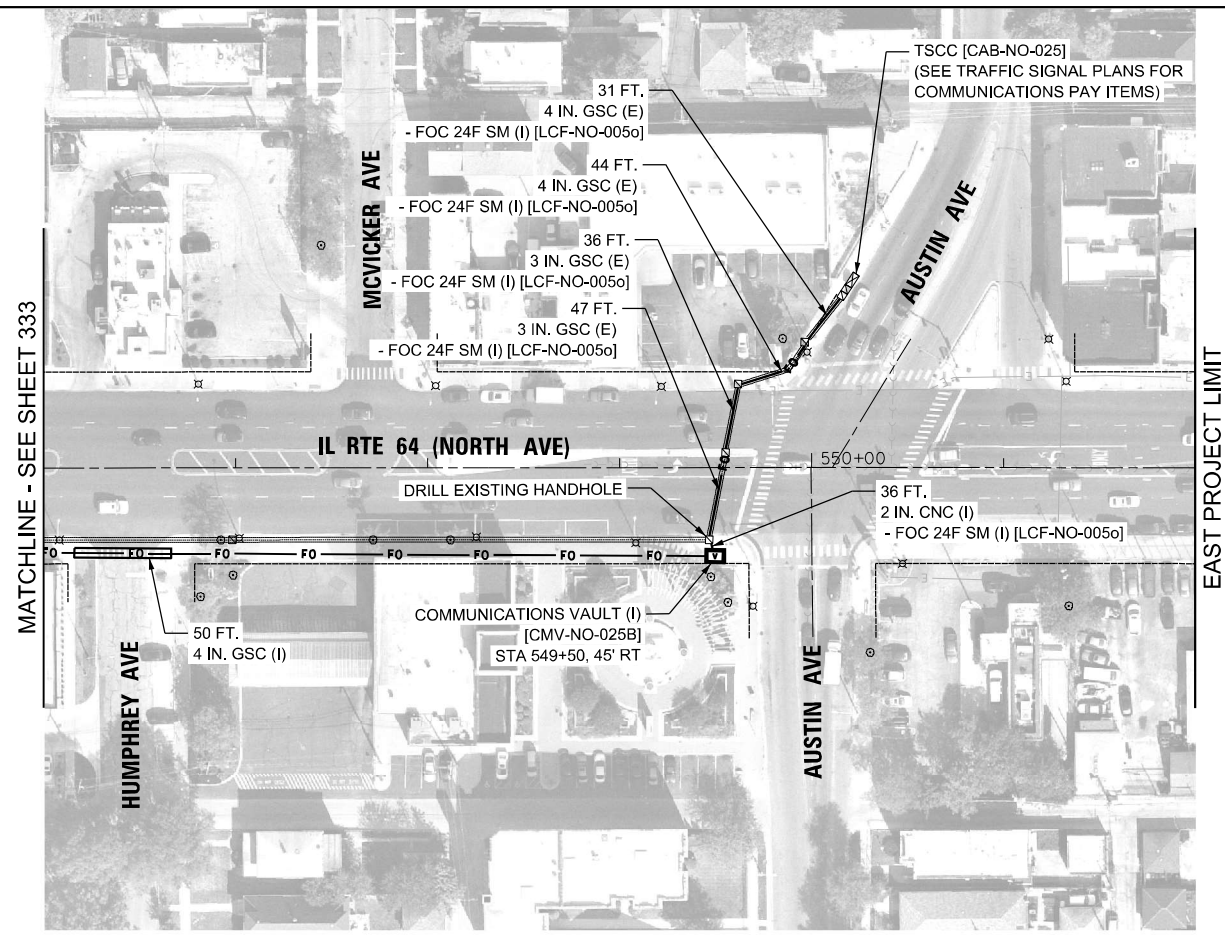
COMMUNICATIONS INSTALLATION PLANS

SCALE: 1" = 50' SHEET 16 OF 17 SHEETS STA. TO STA.

F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK/DUPAGE	TOTAL SHEETS 492	SHEET NO. 333
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N40	

COM-17

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COM-18



USER NAME = JoelTurk	DESIGNED - CH	REVISED -
DRAWN - JT	REVISIONS -	
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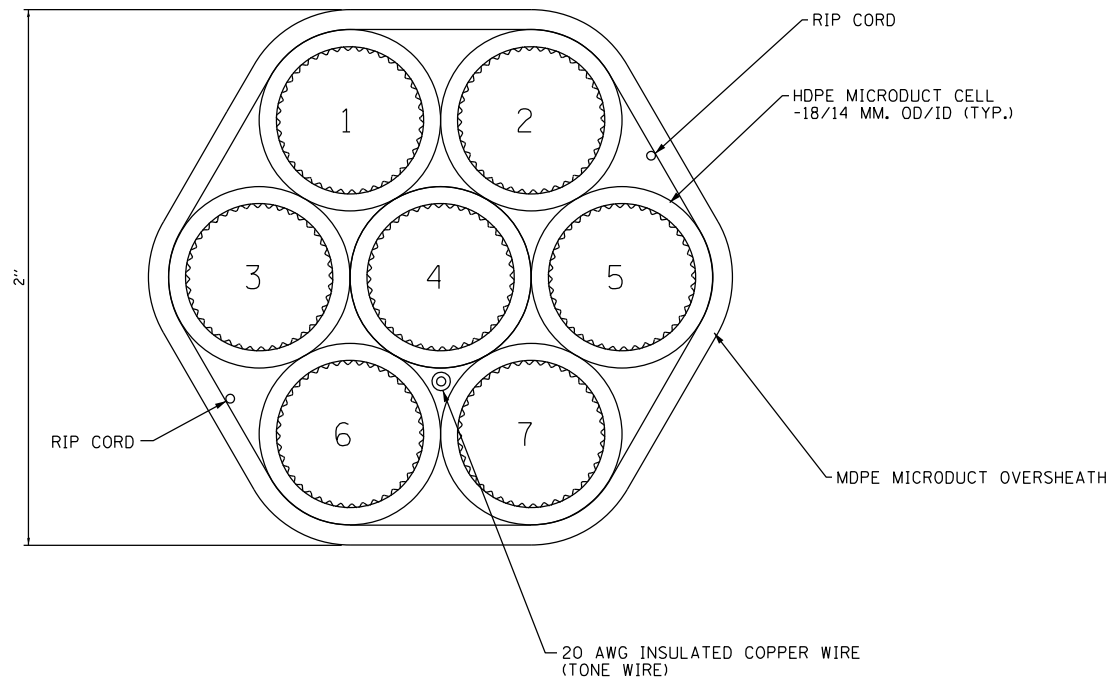
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

COMMUNICATIONS INSTALLATION PLANS

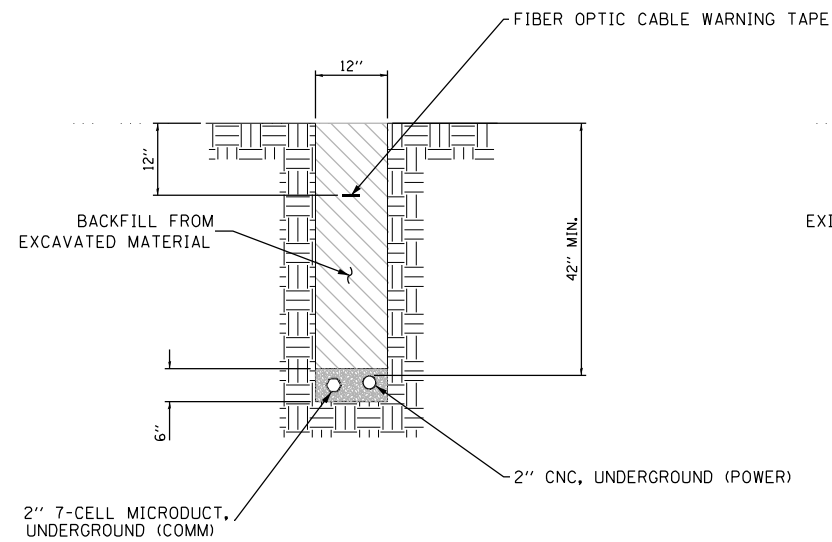
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				

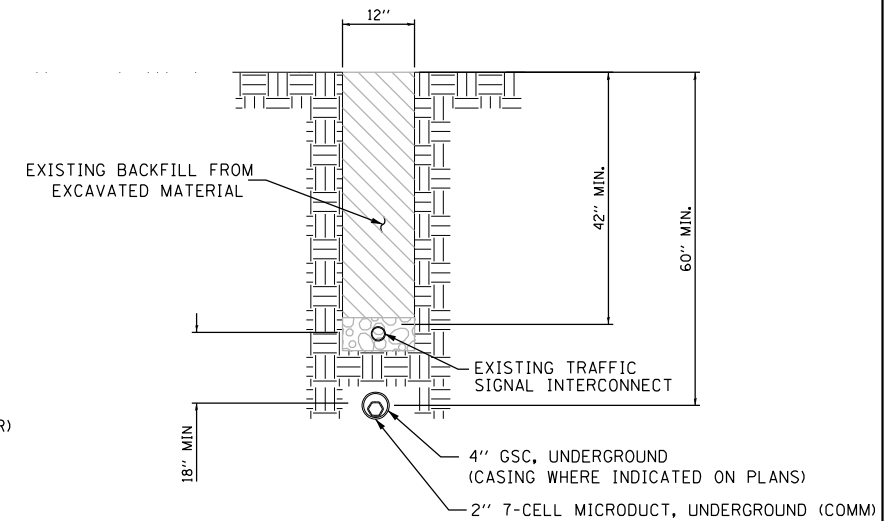
CELL NO.	CELL COLOR	CELL ALLOCATION
1	BLUE	144F IDOT (TCF)
2	ORANGE	144F IDOT (DCF)
3	GREEN	SPARE
4	BROWN	SPARE
5	GREY	SPARE
6	WHITE	SPARE
7	RED	SPARE



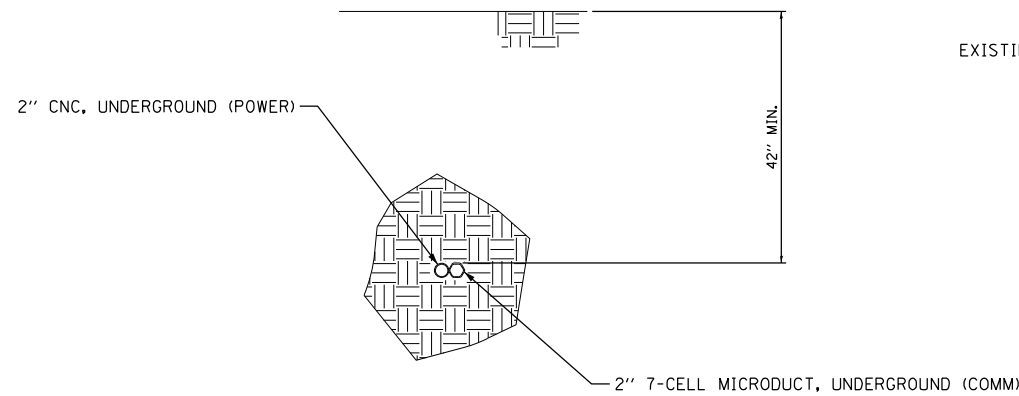
7-CELL MICRODUCT DETAIL



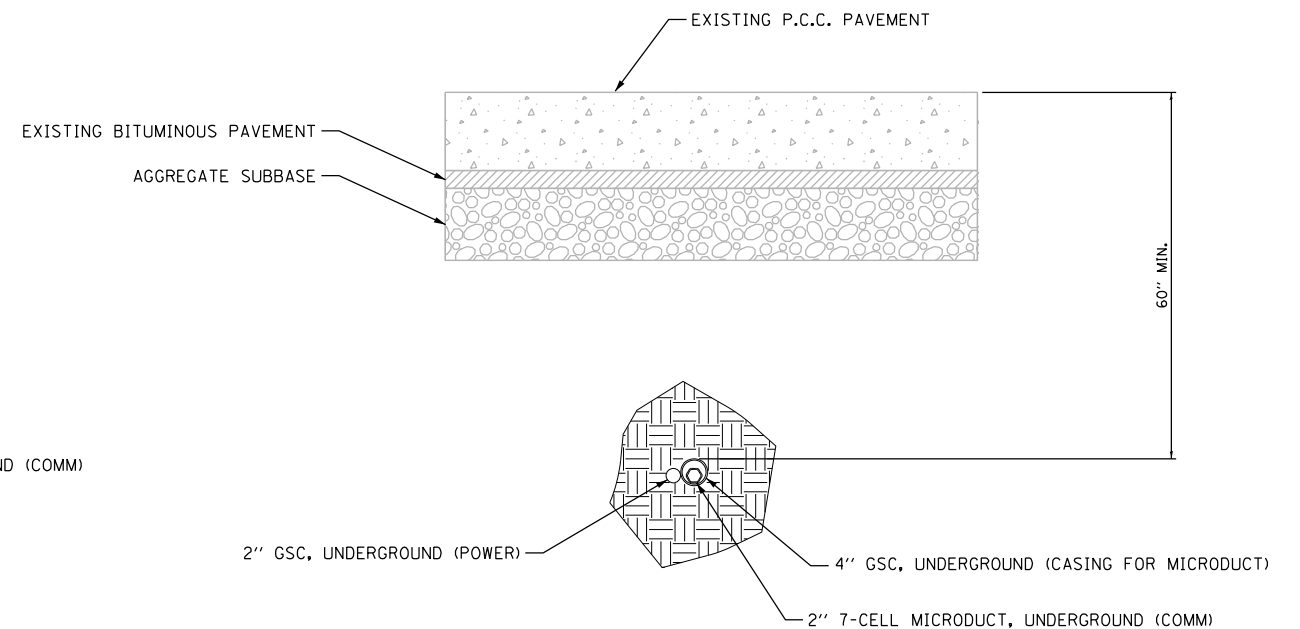
CONDUIT IN TRENCH



BORED CONDUIT ALONG EXISTING INTERCONNECT CONDUIT ROUTE



BORED CONDUIT IN UNPAVED AREAS



BORED CONDUIT UNDER ROADWAY

NOTES:
1. CONDUITS FOR COMMUNICATIONS AND POWER ARE NOT NECESSARILY INSTALLED TOGETHER. INSTALLATION CONFIGURATION VARIES BY LOCATION.

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Jacobs

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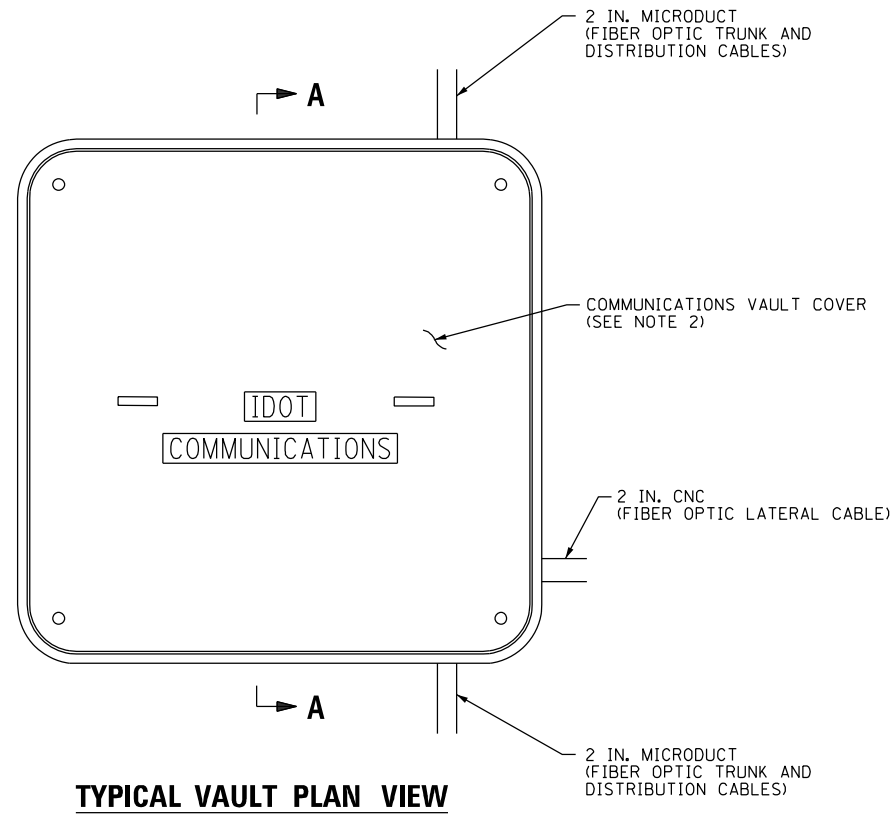
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COMMUNICATIONS DETAILS
MICRODUCT INSTALLATION**

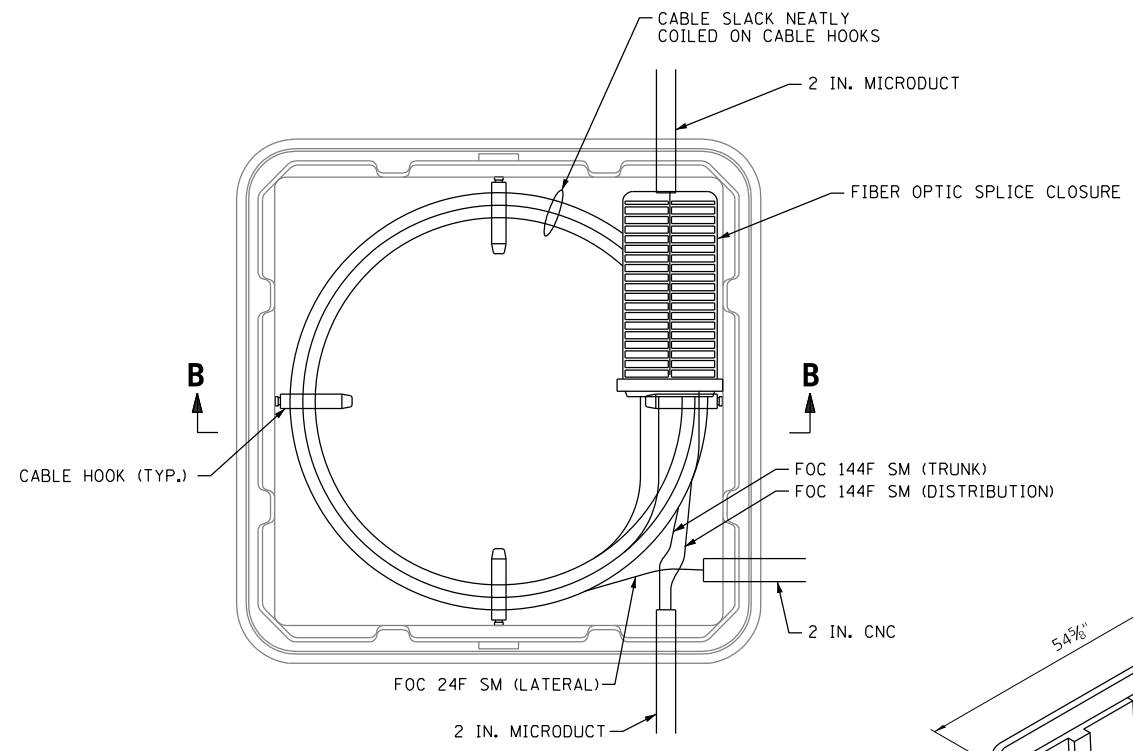
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 62N40	
			ILLINOIS FED. AID PROJECT	

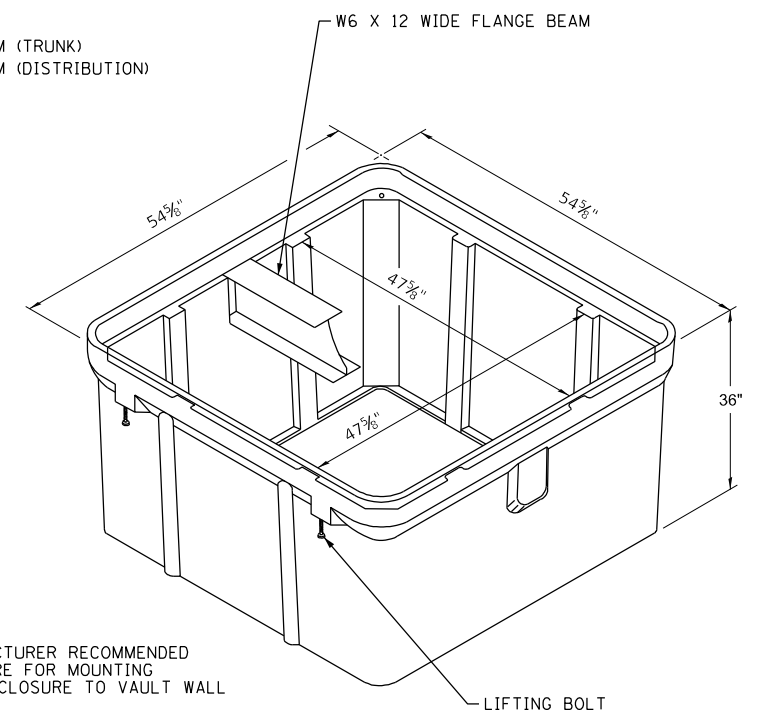
DET-01



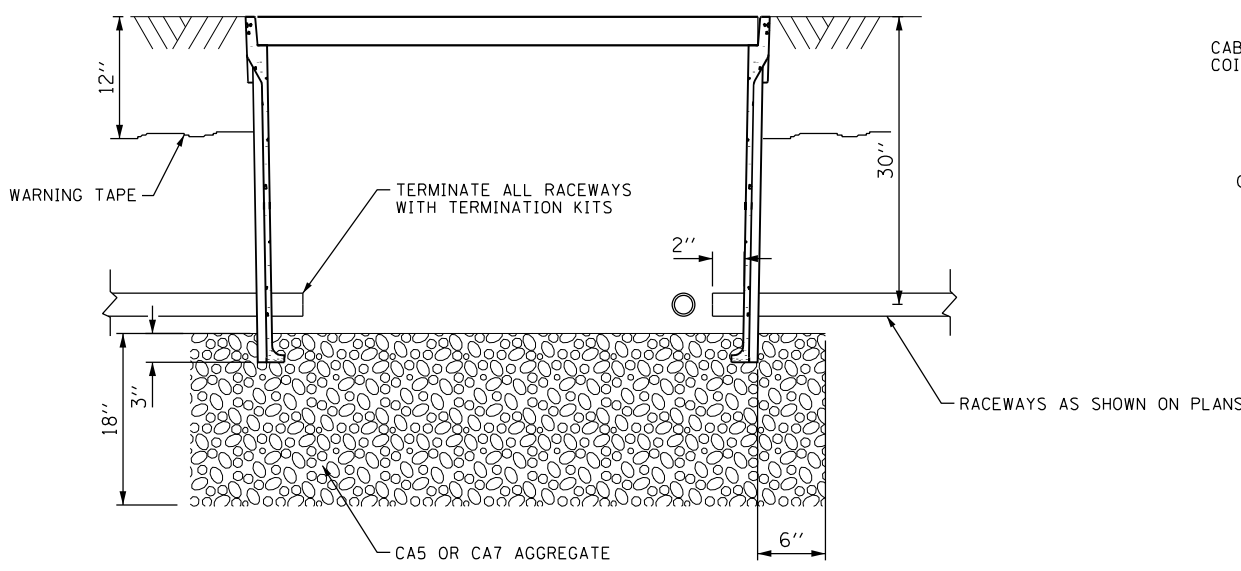
TYPICAL VAULT PLAN VIEW



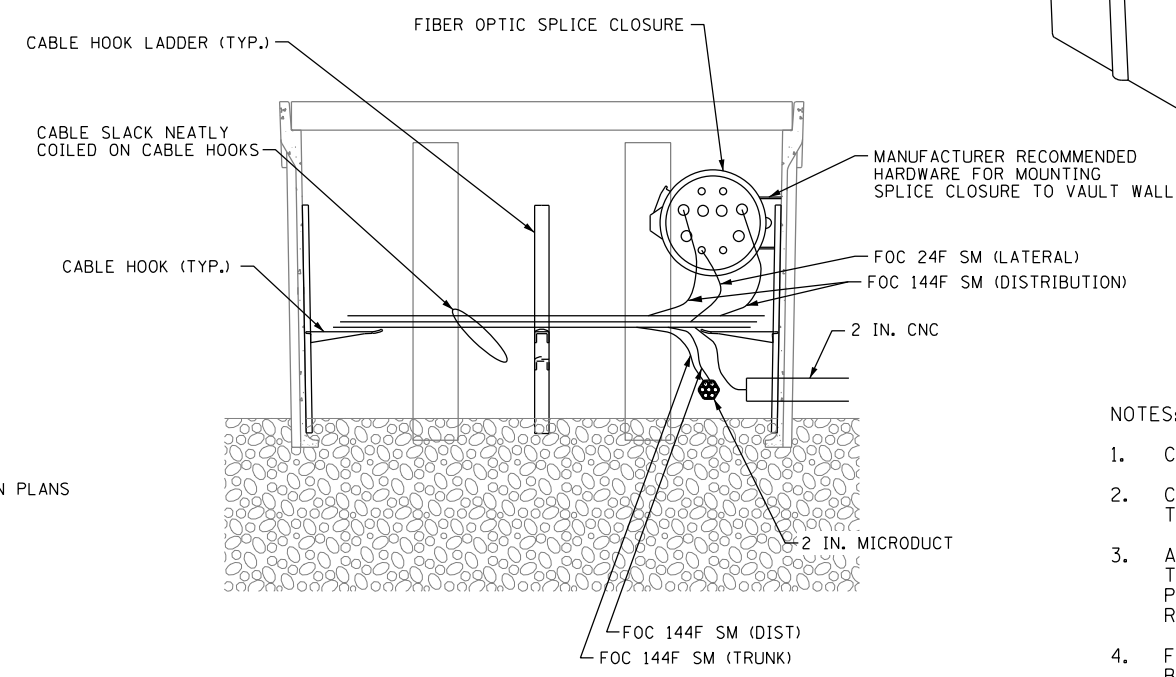
VAULT INTERIOR PLAN VIEW



ISOMETRIC VIEW



SECTION A-A



SECTION B-B

- NOTES:
1. COMMUNICATIONS VAULT SHALL HAVE AN OPEN BASE.
 2. COVER SHALL BE PLACED AS TO RECESS INTO VAULT TO PREVENT LATERAL MOVEMENT
 3. ALL OPENINGS IN STRUCTURE SHALL BE MACHINED AT TIME OF FABRICATION OR PUNCH DRIVEN AT TIME OF PLACEMENT. IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
 4. FIELD PLACEMENT OF COMMUNICATIONS VAULT SHALL BE AS DIRECTED BY THE ENGINEER.
 5. ALL DIMENSIONS ARE MINIMUM AND A LARGER SIZE HANDHOLE MAY BE USED, WITH THE APPROVAL OF THE ENGINEER, TO FACILITATE USING A MANUFACTURER'S STANDARD PRODUCT.
 6. ALL SPARE DUCTS OR MICRODUCTS SHALL BE PLUGGED WITH MANUFACTURER APPROVED DUCT PLUGS AFTER PLACEMENT IN VAULTS.

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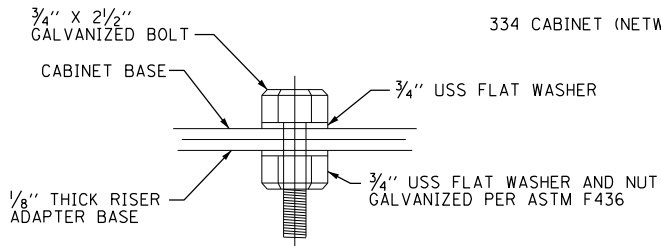
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COMMUNICATIONS DETAILS
IDOT COMMUNICATION VAULT**

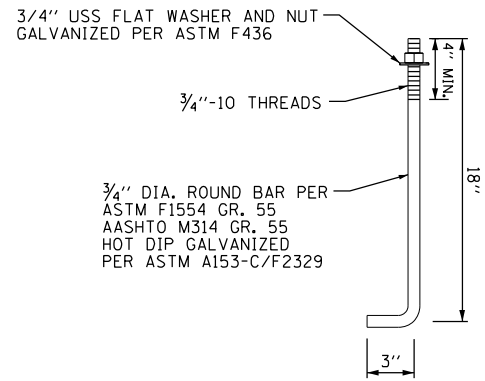
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62N40			ILLINOIS FED. AID PROJECT	

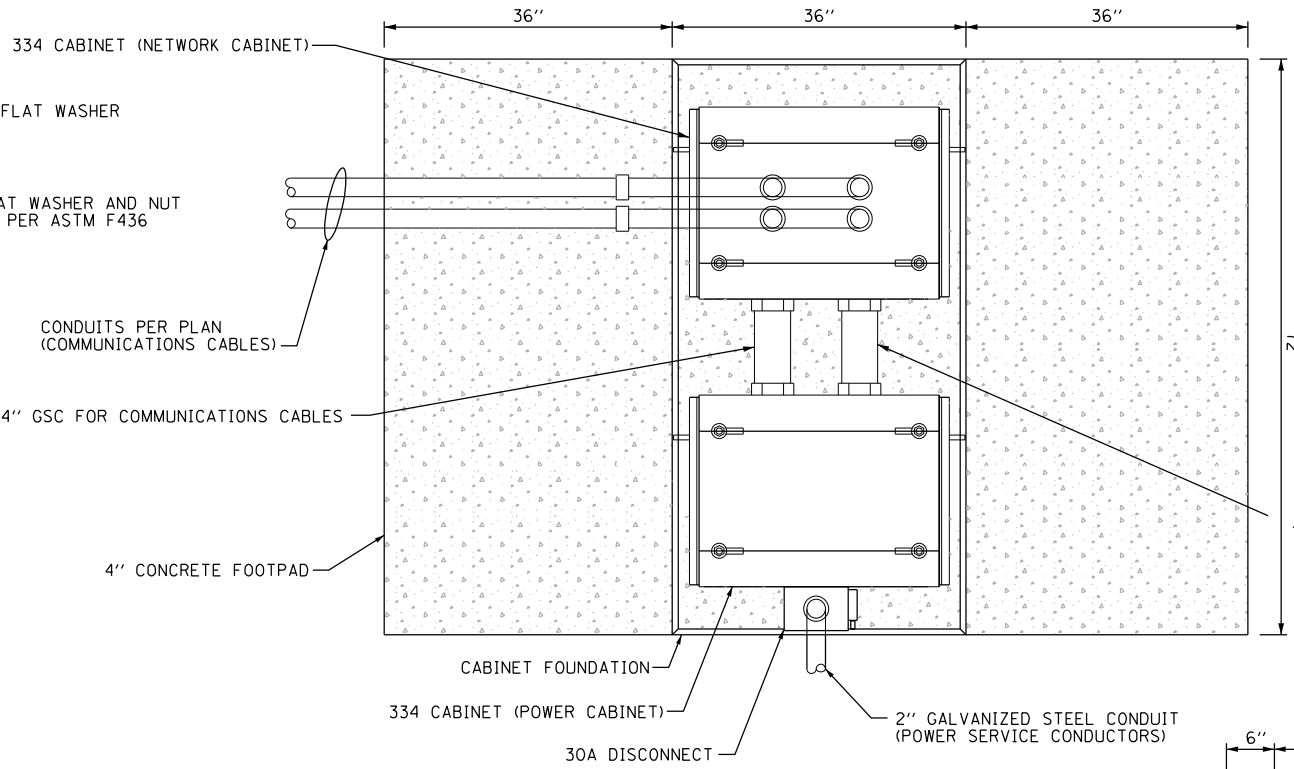
DET-02



DETAIL B

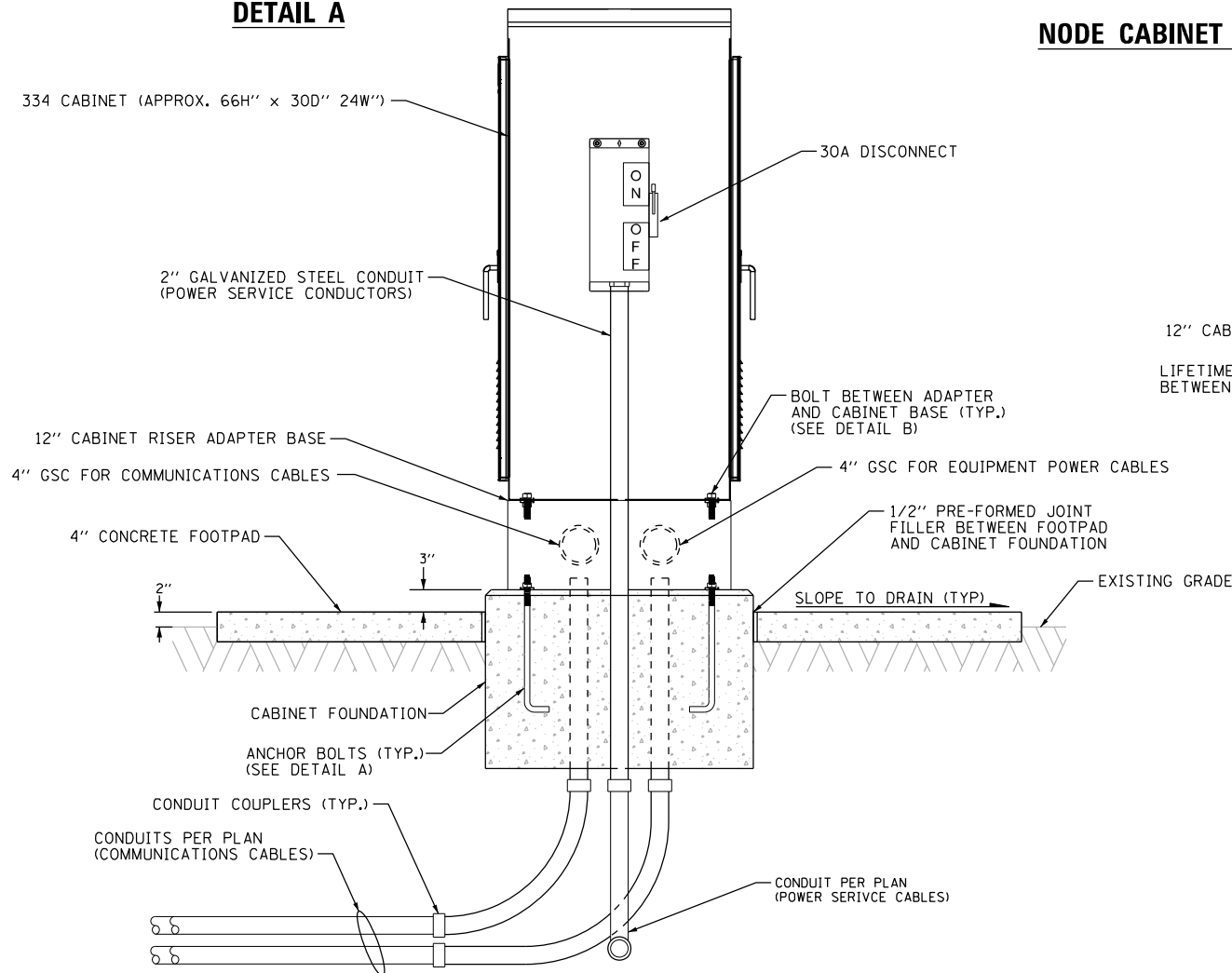


DETAIL A

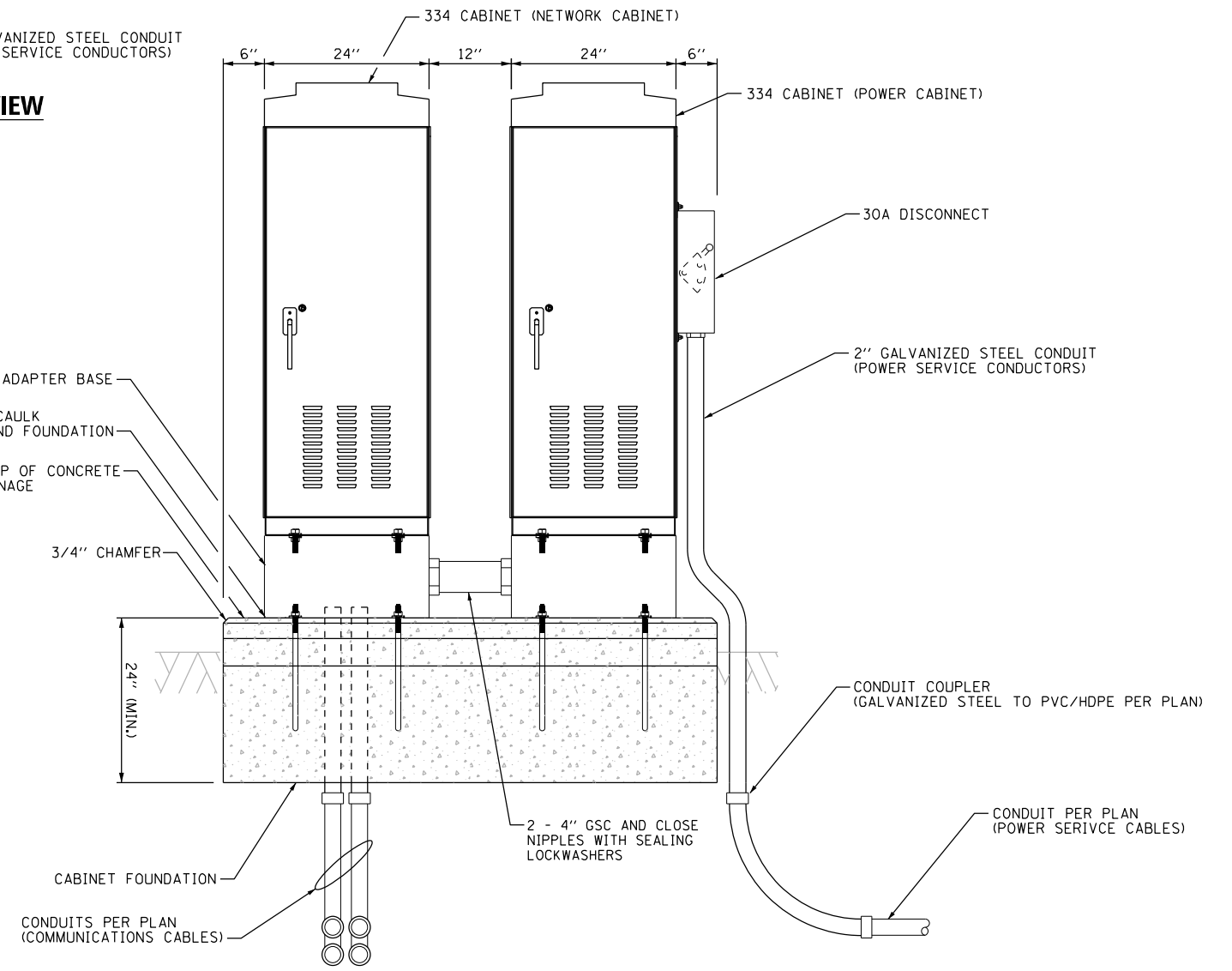


NODE CABINET PLAN VIEW

- NOTES:**
1. ADJUST THE ELEVATIONS AND DEPTH OF CONCRETE FOOTPADS AND FOUNDATION TO MEET THE SITE CONDITIONS. FOUNDATIONS DEPTH SHALL BE A MINIMUM OF 24" BELOW GRADE.
 2. COMPACT THE SOIL BENEATH THE CONCRETE FOOTPAD WITH A PLATE COMPACTOR OR OTHER COMPACTION METHOD APPROVED BY THE ENGINEER.
 3. INSTALL THE NUMBER, SIZE, AND TYPE OF CONDUIT(S) FOR COMMUNICATIONS AND POWER AS SHOWN IN THE PLANS. DETERMINE THE APPROACH/ENTRY ANGLE TO FOUNDATION BASED ON SITE CONDITIONS. THE NUMBER AND LOCATION OF CONDUIT SWEEPS SHOWN IN THIS DRAWING ARE DIAGRAMMATIC.
 4. INSTALL A 3/4" X 10 FT. COPPER CLAD GROUNDING ROD IN THE CABINET FOUNDATION. INSTALL AN INSULATED #2 GROUND WIRE FROM THE CABINET GROUND BUS TO THE GROUND ROD AND EXOTHERMICALLY BOND THE GROUND WIRE AND BAR.
 5. DISCONNECT SWITCH SHALL BE MOUNTED TO THE SIDE OF THE CABINET AND CABLES SHALL ENTER THE CABINET VIA THREADED NIPPLE SEALED AGAINST WATER ENTRY. CABLES SHALL BE ROUTED INTERNALLY TO THE POWER PANEL AND KEPT ISOLATED USING PLASTIC RACEWAY. ALL PENETRATIONS INTO THE CABINET FOR MOUNTING THE DISCONNECT SHALL BE SEALED TO THE SATISFACTION OF THE ENGINEER.
 6. ANCHOR BOLT PLACEMENT SHALL BE COORDINATED WITH CABINET MANUFACTURER.



NODE CABINET ELEVATION VIEW (SIDE)



NODE CABINET ELEVATION VIEW (FRONT)

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Jacobs

USER NAME = joel.turk	DESIGNED - CH	REVISED -
PLOT SCALE = 40,0000 */ in.	DRAWN - JT	REVISED -
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	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

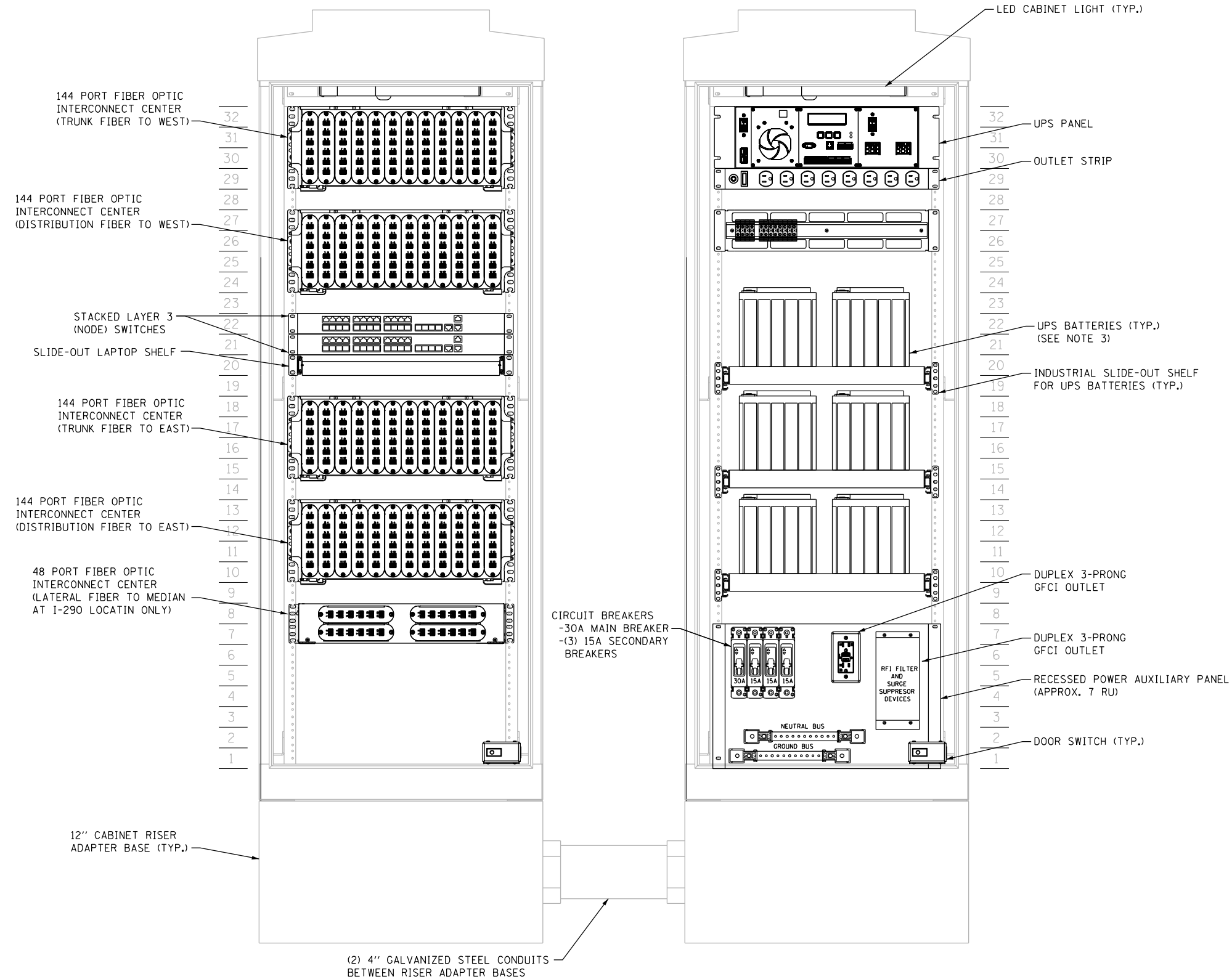
**COMMUNICATIONS DETAILS
NODE CABINET AND FOUNDATION**

SCALE: N.T.S. SHEET 3 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	337
			CONTRACT NO. 62N40	
ILLINOIS FED. AID PROJECT				

DET-03

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NETWORK CABINET LAYOUT

POWER CABINET LAYOUT

SUGGESTED NODE CABINET LAYOUTS

NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL CABINET LAYOUT. AUXILIARY PANEL SIZING SHALL BE COORDINATED WITH CABINET MANUFACTURER.
2. CABINET FAN AND THERMOSTAT NOT SHOWN FOR CLARITY. CABINET MANUFACTURER SHALL DETERMINE FINAL LOCATIONS.
3. CONFIGURATION SHOWN ASSUMES (4) 12V BATTERIES ARRAYED IN SERIES PER SHELF. THE CONTRACTOR SHALL DETERMINE THE SIZE, TYPE, QUANTITY, AND VOLTAGE OF THE BATTERY ARRAY USED AS PART OF THE UPS SYSTEM THAT MEETS THE RUNTIME REQUIREMENTS PROVIDED IN THE SPECIAL PROVISIONS.
4. SEE "NODE CABINET WIRING DIAGRAM" FOR INTERNAL POWER WIRING SCHEMATIC.
5. FIBER OPTIC INTERCONNECT CENTERS SHALL BE INSTALLED AT LOCATIONS AS REQUIRED BY THE TYPES OF CABLES TERMINATED.



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	DRAWN - JT	REVISED -
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PLOT DATE = 3/22/2024	DATE - 3/22/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

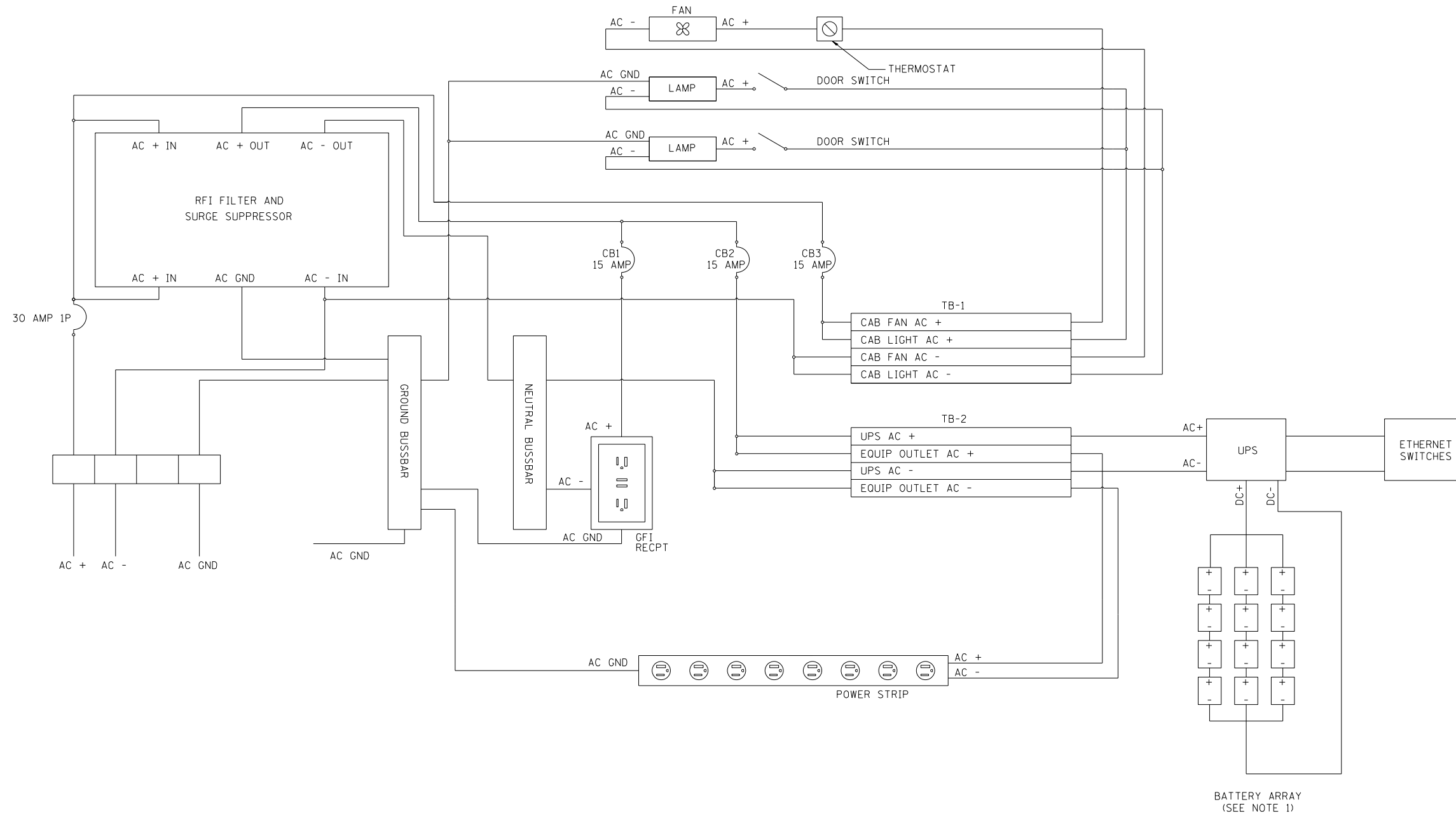
COMMUNICATIONS DETAILS
NODE CABINET RACK LAYOUT

SCALE: N.T.S. SHEET 4 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	338
				CONTRACT NO. 62N40
ILLINOIS FED. AID PROJECT				

DET-04

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NODE CABINET SINGLE LINE WIRING DIAGRAM

NOTES:

1. CONFIGURATION SHOWN ASSUMES (4) 12V BATTERIES ARRAYED IN SERIES PER SHELF. THE CONTRACTOR SHALL DETERMINE THE SIZE, TYPE, QUANTITY, AND VOLTAGE OF THE BATTERY ARRAY USED AS PART OF THE UPS SYSTEM THAT MEETS THE RUNTIME REQUIREMENTS PROVIDED IN THE SPECIAL PROVISIONS.

DET-05



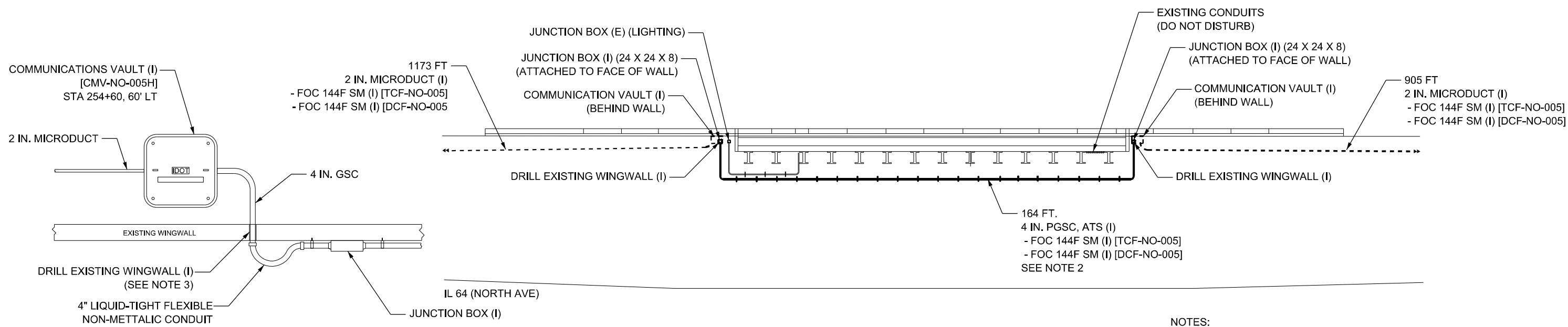
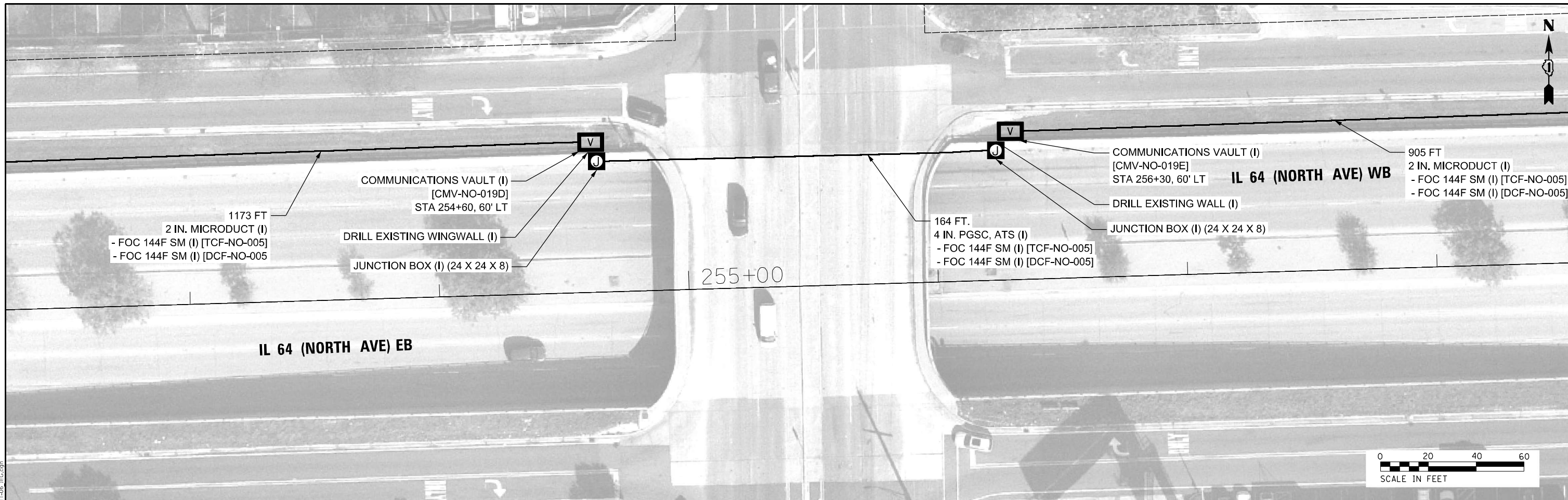
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PLOT DATE = 3/22/2024	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COMMUNICATIONS DETAILS
NODE CABINET INTERNAL WIRING DIAGRAM**

SCALE: N.T.S. SHEET 5 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	339
			CONTRACT NO. 62N40	
ILLINOIS FED. AID PROJECT				



**PROFILE VIEW - LOOKING NORTH
(NOT TO SCALE)**

- NOTES:**
1. ALL QUANTITIES SHOWN ON THIS SHEET ARE ACCOUNTED FOR ON THE ITS CONSTRUCTION PLANS.
 2. CONDUIT BRACKETS SHALL BE SPACED AT 5 FT. MAX
 3. CORE A 5" DIAMETER HOLE IN THE WINGWALL TO INSTALL CONDUIT. GROUT AROUND THE CONDUIT AFTER INSTALLATION TO THE SATISFACTION OF THE ENGINEER.

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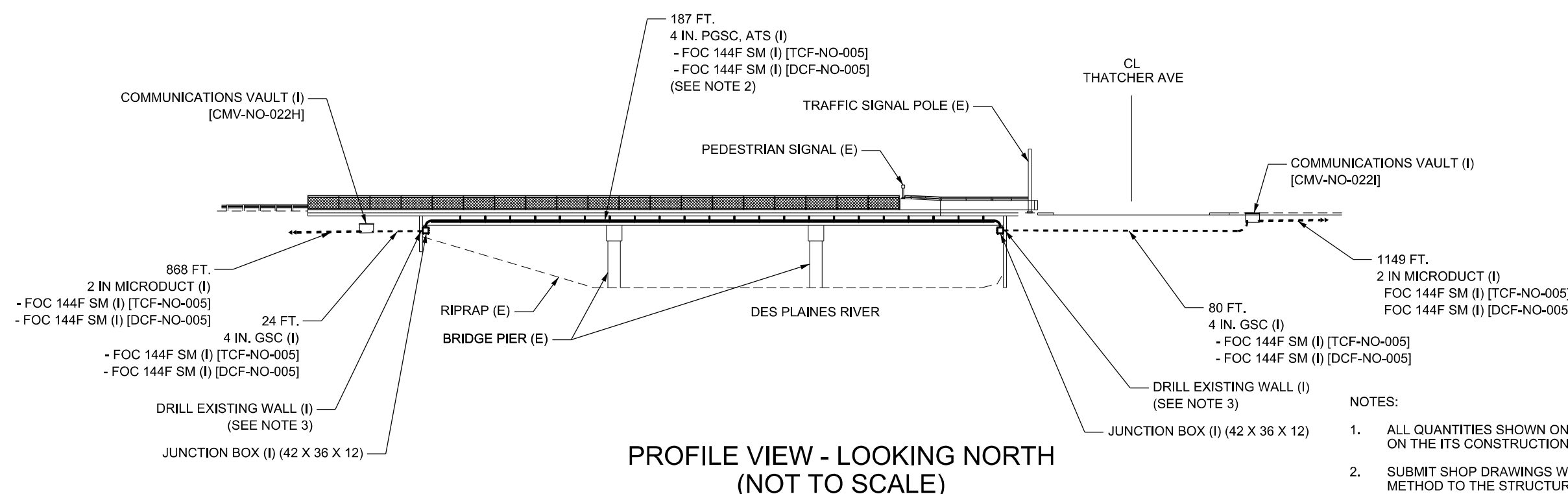
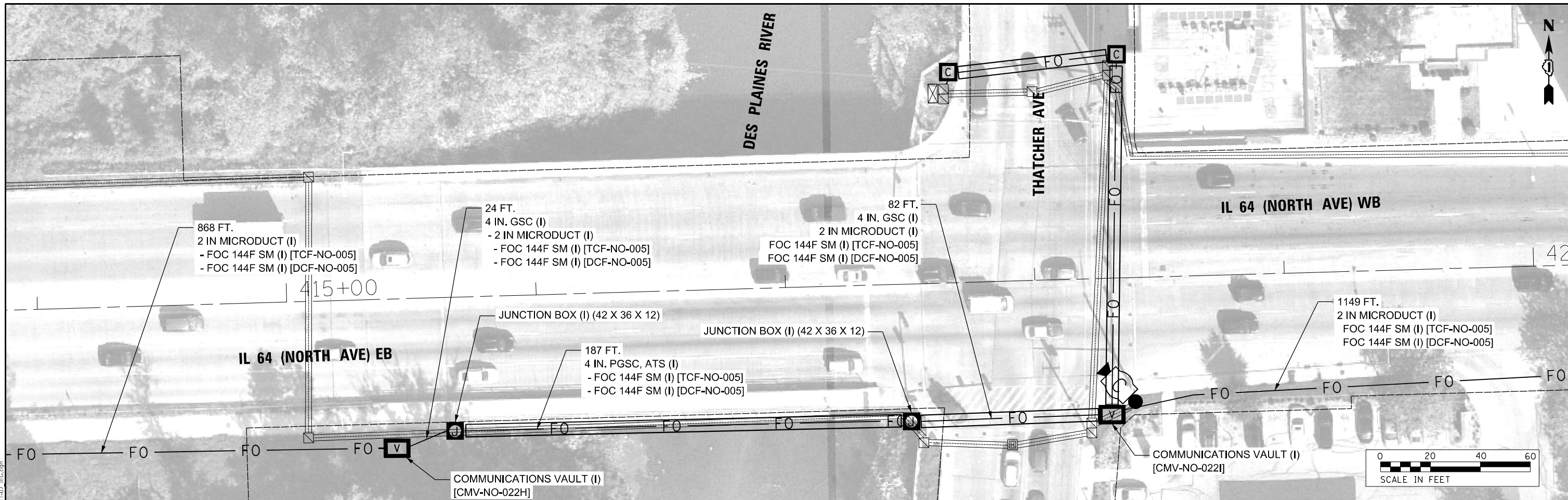
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	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COMMUNICATIONS DETAILS	
IL-64 AT US 12 / 45 CONDUIT ROUTING	
SCALE: N.T.S.	SHEET 6 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	340
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N40	

DET-06



**PROFILE VIEW - LOOKING NORTH
(NOT TO SCALE)**

- NOTES:**
1. ALL QUANTITIES SHOWN ON THIS SHEET ARE ACCOUNTED FOR ON THE ITS CONSTRUCTION PLANS.
 2. SUBMIT SHOP DRAWINGS WITH PROPOSED ATTACHMENT METHOD TO THE STRUCTURE. ATTACHMENTS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
 3. CONTRACTOR SHALL SEAL AND GROUT ALL OPENINGS CORED THROUGH WINGWALLS TO ACCOMMODATE NEW CONDUIT.

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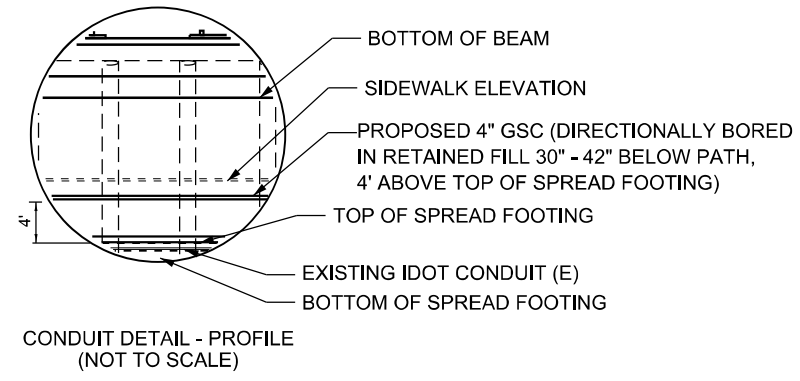
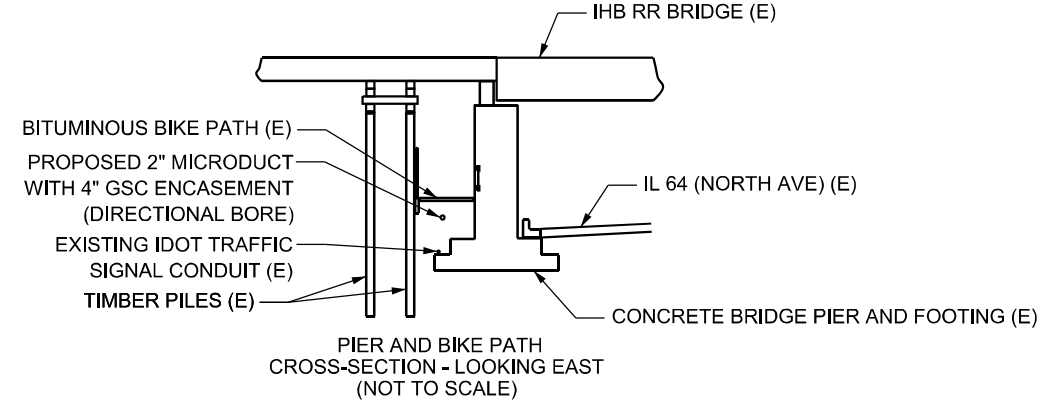
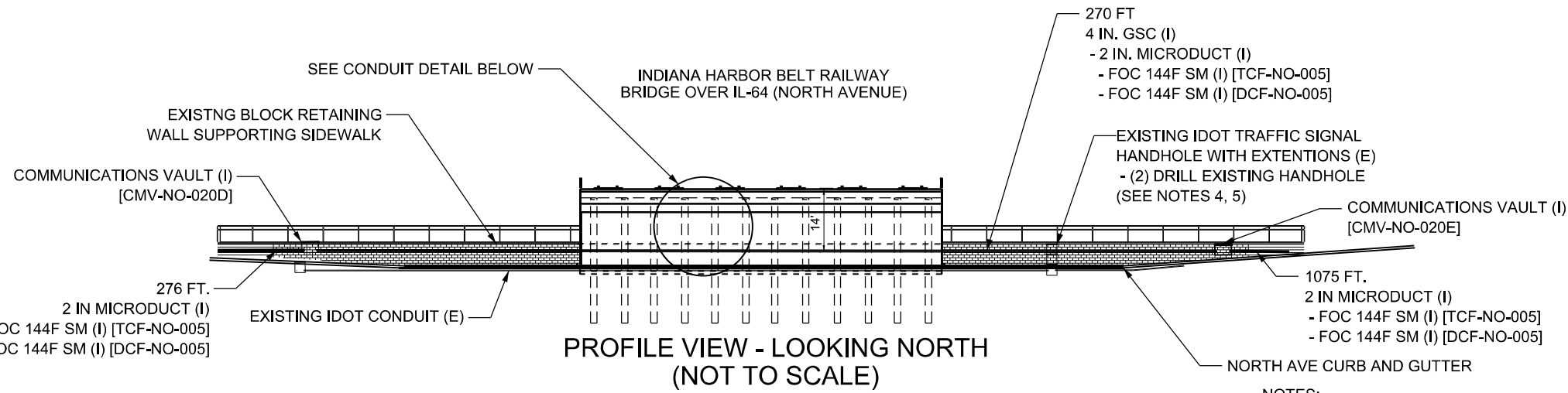
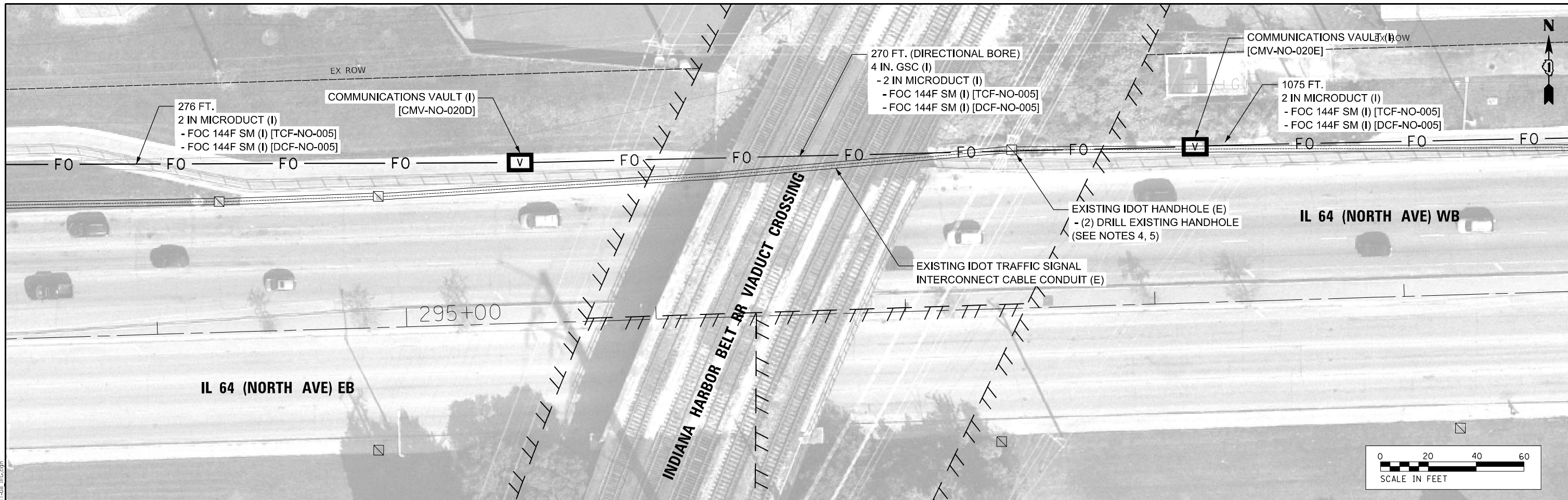
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COMMUNICATIONS DETAILS
IL-64 AT DES PLAINES RIVER CONDUIT ROUTING**

SCALE: N.T.S. SHEET 7 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	341
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N40	

DET-07



- NOTES:**
- DIRECTIONAL BORE SHALL BE IN THE RETAINED FILL UNDER BIKE PATH BETWEEN PARAPET WALL AND TIMBER PILING.
 - CONDUIT TO BE PLACED BETWEEN 30 AND 42 INCHES BELOW TOP OF SIDEWALK.
 - DIRECTIONAL BORING PITS TO BE PLACED AT HANDHOLE/COMMUNICATION VAULT LOCATIONS. PITS MUST BE GREATER THAN 40 FEET FROM RAILROAD RIGHT OF WAY.
 - PATH ON RETAINED FILL BUILT OVER EXISTING TRAFFIC SIGNAL CONDUIT. EXISTING TRAFFIC SIGNAL HANDHOLE EXTENDED TO PROVIDE ACCESS.
 - REMOVE SIDEWALK AROUND EXISTING HANDHOLES AND INSTALL NEW CONDUIT THROUGH HANDHOLE, UN CUT. BACK FILL OPENINGS AROUND THE SIDEWALK WITH CA 6 STONE PER IDOT STANDARD SPECIFICATIONS AND REPLACE SIDEWALK.

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Jacobs

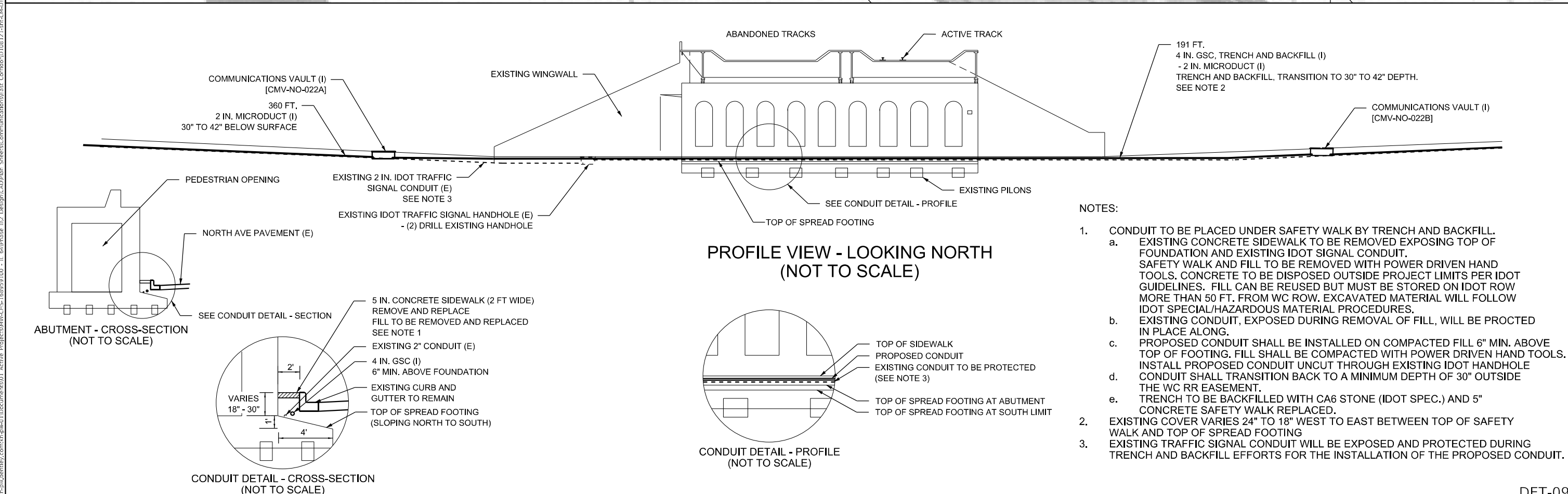
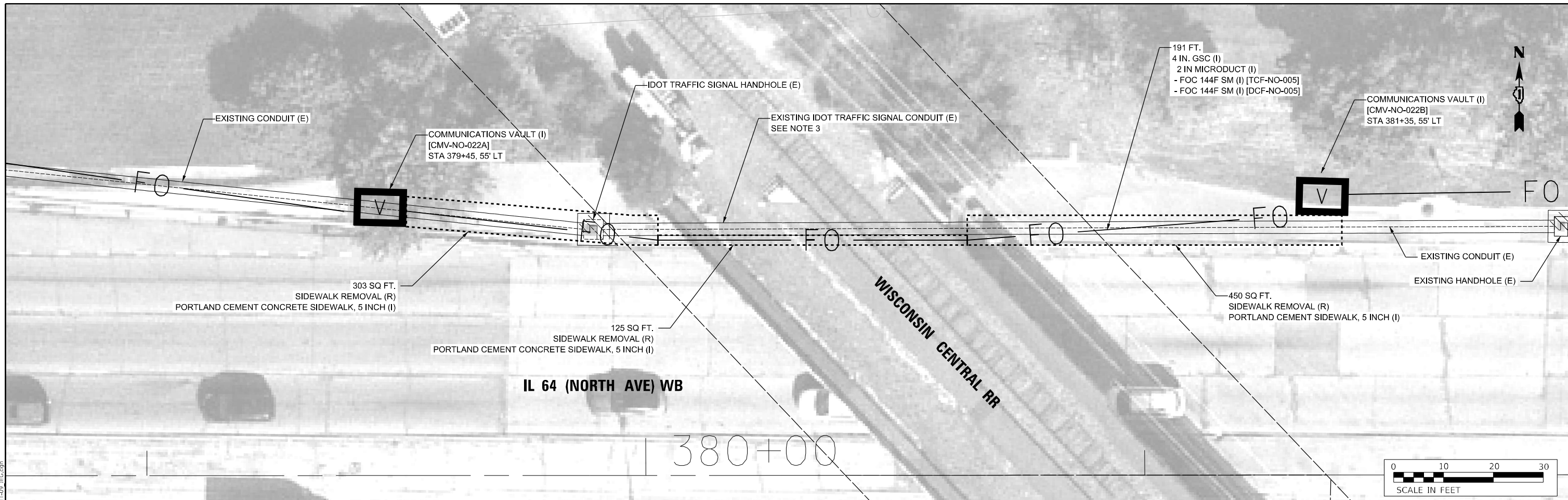
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	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COMMUNICATIONS DETAILS			
IL-64 AT IHB R.R. VIADUCT CONDUIT ROUTING			
SCALE: N.T.S.	SHEET 8	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	342
			CONTRACT NO. 62N40	
ILLINOIS FED. AID PROJECT				

DET-08

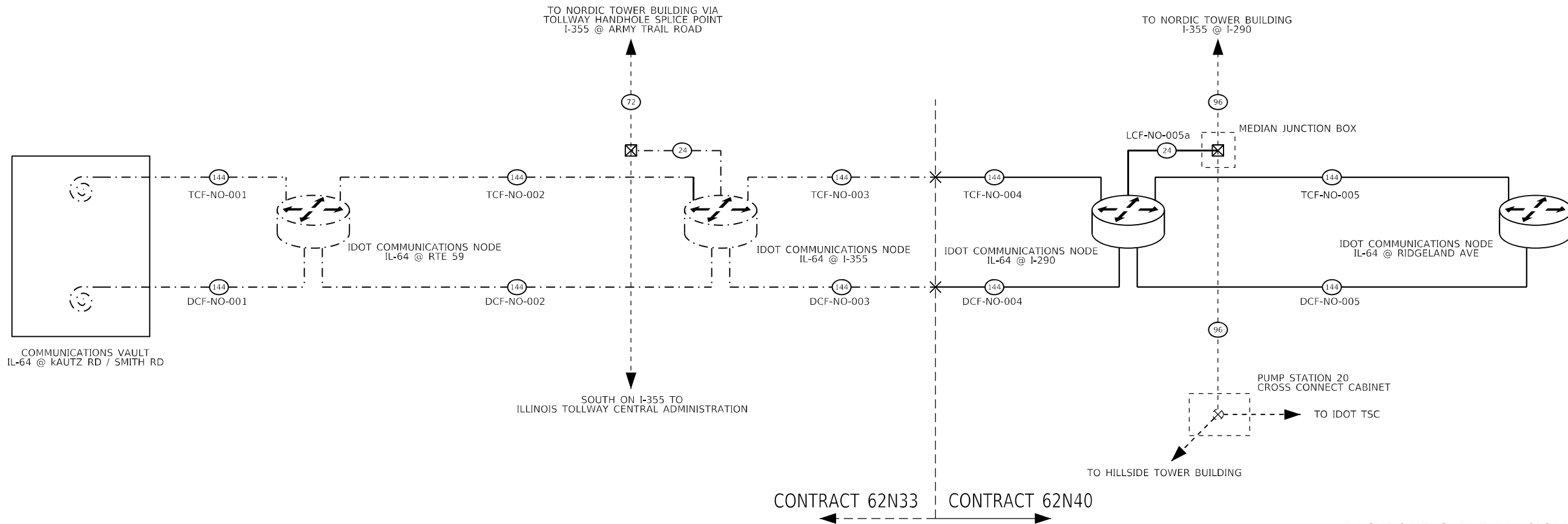


- NOTES:
- CONDUIT TO BE PLACED UNDER SAFETY WALK BY TRENCH AND BACKFILL.
 - EXISTING CONCRETE SIDEWALK TO BE REMOVED EXPOSING TOP OF FOUNDATION AND EXISTING IDOT SIGNAL CONDUIT. SAFETY WALK AND FILL TO BE REMOVED WITH POWER DRIVEN HAND TOOLS. CONCRETE TO BE DISPOSED OUTSIDE PROJECT LIMITS PER IDOT GUIDELINES. FILL CAN BE REUSED BUT MUST BE STORED ON IDOT ROW MORE THAN 50 FT. FROM WC ROW. EXCAVATED MATERIAL WILL FOLLOW IDOT SPECIAL/HAZARDOUS MATERIAL PROCEDURES.
 - EXISTING CONDUIT, EXPOSED DURING REMOVAL OF FILL, WILL BE PROCTED IN PLACE ALONG.
 - PROPOSED CONDUIT SHALL BE INSTALLED ON COMPACTED FILL 6" MIN. ABOVE TOP OF FOOTING. FILL SHALL BE COMPACTED WITH POWER DRIVEN HAND TOOLS. INSTALL PROPOSED CONDUIT UN CUT THROUGH EXISTING IDOT HANDHOLE CONDUIT SHALL TRANSITION BACK TO A MINIMUM DEPTH OF 30" OUTSIDE THE WC RR EASEMENT.
 - TRENCH TO BE BACKFILLED WITH CA6 STONE (IDOT SPEC.) AND 5" CONCRETE SAFETY WALK REPLACED.
 - EXISTING COVER VARIES 24" TO 18" WEST TO EAST BETWEEN TOP OF SAFETY WALK AND TOP OF SPREAD FOOTING
 - EXISTING TRAFFIC SIGNAL CONDUIT WILL BE EXPOSED AND PROTECTED DURING TRENCH AND BACKFILL EFFORTS FOR THE INSTALLATION OF THE PROPOSED CONDUIT.

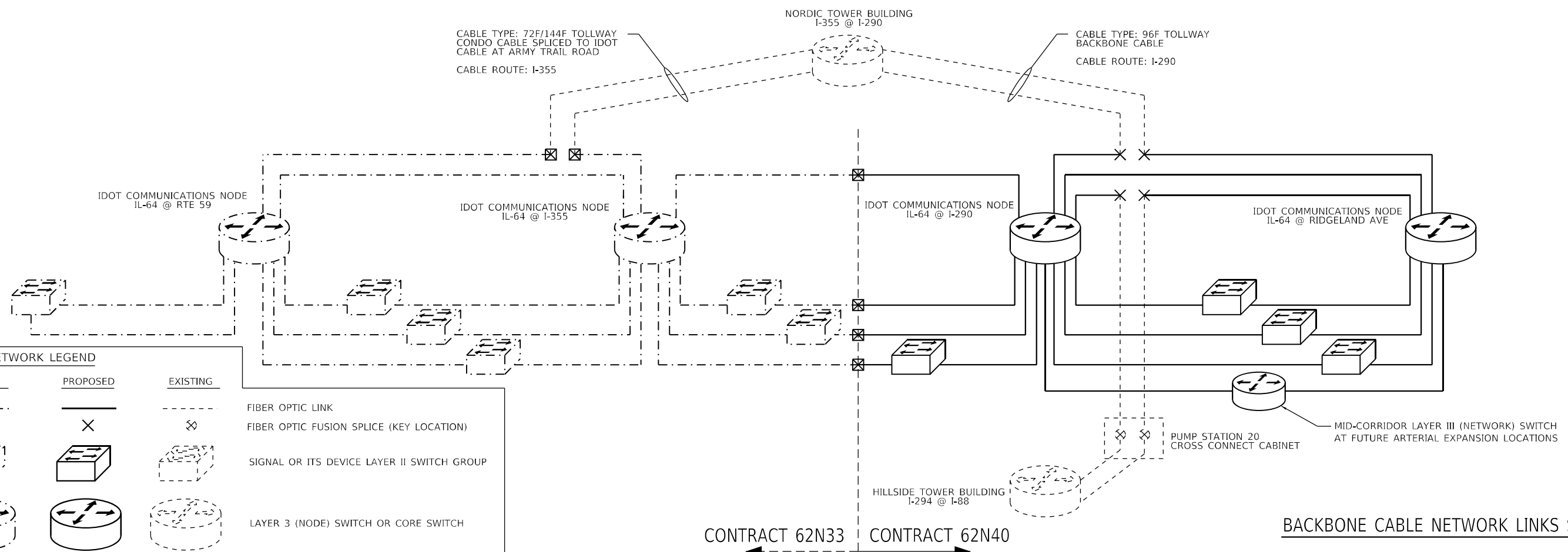
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Jacobs	USER NAME = j0eLturk	DESIGNED - CH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COMMUNICATIONS DETAILS IL-64 AT C.N. R.R. VIADUCT CONDUIT ROUTING			F.A.P. RTE. = 307	SECTION = 2020-263-SUR, SW&TS	COUNTY = COOK/DUPAGE	TOTAL SHEETS = 492	SHEET NO. = 343
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	PLOT DATE = 3/22/2024	DATE = 3/22/2024	REVISED -		ILLINOIS FED. AID PROJECT							

DET-09



BACKBONE CABLE PHYSICAL OVERVIEW SCHEMATIC



BACKBONE CABLE NETWORK LINKS SCHEMATIC

SLD-01

NETWORK LEGEND

FUTURE	PROPOSED	EXISTING	
			FIBER OPTIC LINK
			FIBER OPTIC FUSION SPLICE (KEY LOCATION)
			SIGNAL OR ITS DEVICE LAYER II SWITCH GROUP
			LAYER 3 (NODE) SWITCH OR CORE SWITCH

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Jacobs

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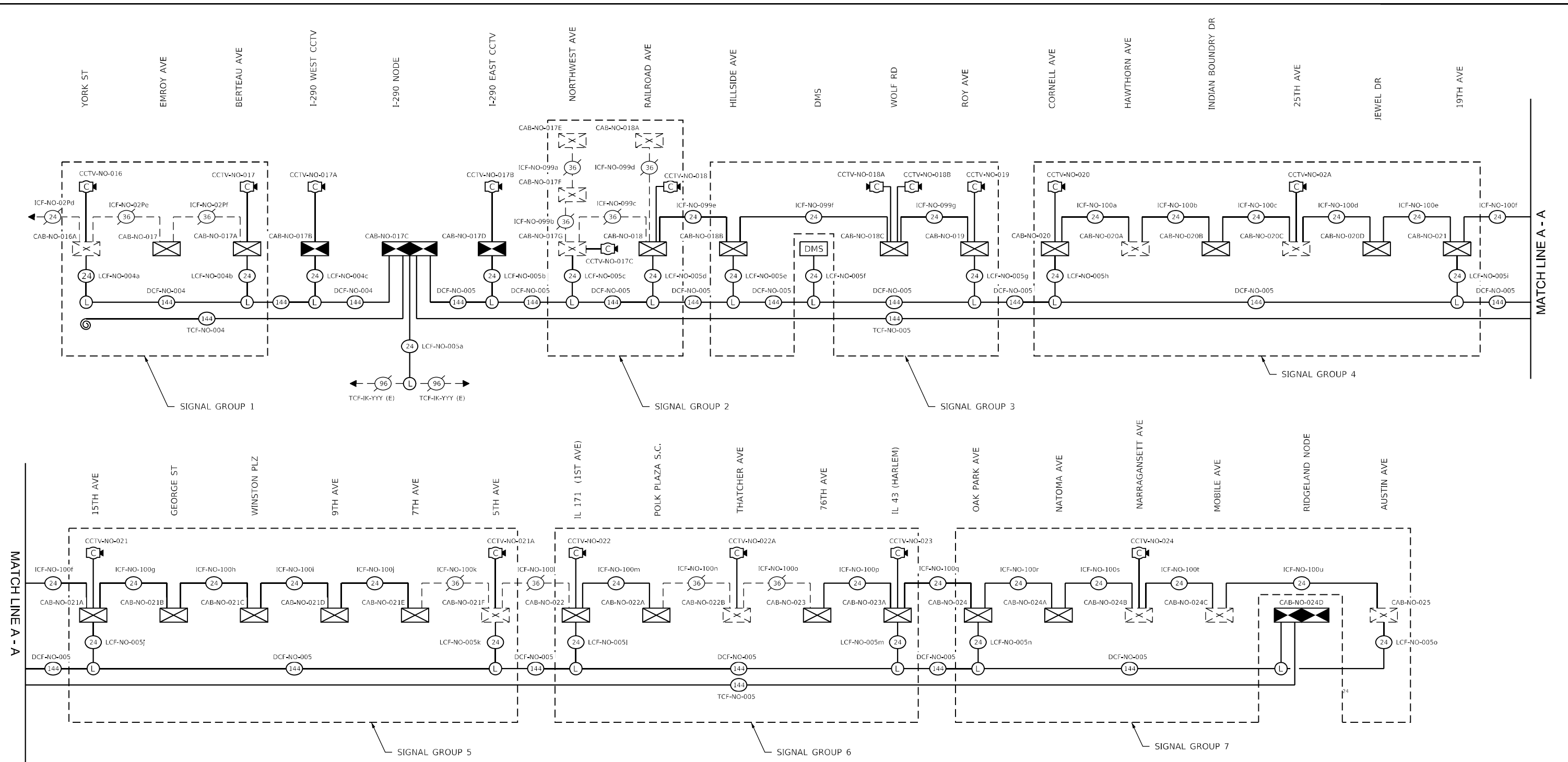
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMMUNICATIONS SINGLE LINE DIAGRAMS
CORRIDOR NETWORK OVERVIEW

SCALE: N.T.S. SHEET 1 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	344
			CONTRACT NO. 62N40	
ILLINOIS FED. AID PROJECT				

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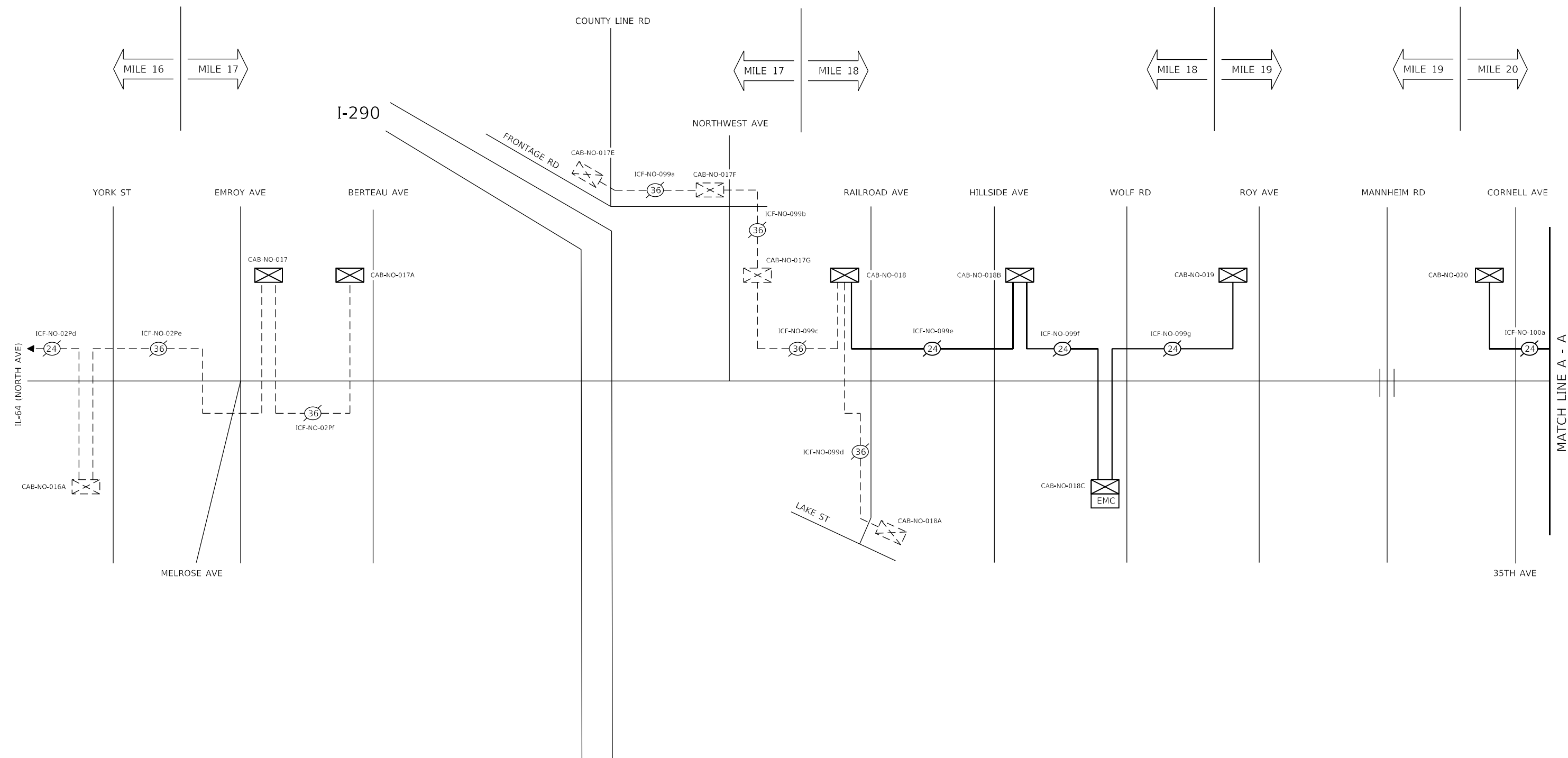
DISTRIBUTION CABLE UTILIZATION NOTES:

- SIGNAL GROUP 1 LATERAL CABLES SHALL SPLICE TO THE DISTRIBUTION BACKBONE CABLE STRANDS 1 AND 2 TO ESTABLISH A LINK TO THE IDOT COMMUNICATIONS NODE AT I-290. CONNECTION TO THE WEST SHALL BE COMPLETED BY OTHERS IN A FUTURE CONTRACT.
- THE CCTV CAMERA CABINET WEST OF THE I-290 INTERCHANGE SHALL BE SPLICED TO THE DISTRIBUTION BACKBONE CABLE STRANDS 7 AND 8 TO ESTABLISH A LINK TO THE IDOT COMMUNICATIONS NODE AT I-290. CONNECTION TO THE WEST SHALL BE COMPLETED BY OTHERS IN A FUTURE CONTRACT.
- THE CCTV CAMERA CABINET AT I-290 INTERCHANGE AND THE DMS EAST OF HILLSIDE LATERALS SHALL BE SPLICED TO THE DISTRIBUTION BACKBONE CABLE STRANDS 1 AND 2 TO ESTABLISH LINKS BETWEEN THE IDOT COMMUNICATIONS NODE AT I-290 AND RIDGELAND AVENUE.
- SIGNAL GROUP 2 LATERAL CABLES SHALL SPLICE TO THE DISTRIBUTION BACKBONE CABLE STRANDS 7 AND 8 TO ESTABLISH LINKS BETWEEN THE IDOT COMMUNICATIONS NODE AT I-290 AND RIDGELAND AVENUE.
- SIGNAL GROUP 3 LATERAL CABLES SHALL SPLICE TO THE DISTRIBUTION BACKBONE CABLE STRANDS 13 AND 14 TO ESTABLISH LINKS BETWEEN THE IDOT COMMUNICATIONS NODE AT I-290 AND RIDGELAND AVENUE.
- SIGNAL GROUP 4 LATERAL CABLES SHALL SPLICE TO THE DISTRIBUTION BACKBONE CABLE STRANDS 19 AND 20 TO ESTABLISH LINKS BETWEEN THE IDOT COMMUNICATIONS NODE AT I-290 AND RIDGELAND AVENUE.
- SIGNAL GROUP 5 LATERAL CABLES SHALL SPLICE TO THE DISTRIBUTION BACKBONE CABLE STRANDS 25 AND 26 TO ESTABLISH LINKS BETWEEN THE IDOT COMMUNICATIONS NODE AT I-290 AND RIDGELAND AVENUE.
- SIGNAL GROUP 6 LATERAL CABLES SHALL SPLICE TO THE DISTRIBUTION BACKBONE CABLE STRANDS 31 AND 32 TO ESTABLISH LINKS BETWEEN THE IDOT COMMUNICATIONS NODE AT I-290 AND RIDGELAND AVENUE.
- SIGNAL GROUP 7 LATERAL CABLES SHALL SPLICE TO THE DISTRIBUTION BACKBONE CABLE STRANDS 37 AND 38 TO ESTABLISH LINKS BETWEEN THE IDOT COMMUNICATIONS NODE AT I-290 AND RIDGELAND AVENUE.

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		FIBER OPTIC CABLE (XX = STRAND COUNT)
		OUTDOOR NETWORK CABLE
		LATERAL SPLICE LOCATION
		TRAFFIC SIGNAL CABINET
		ITS CABINET
		IDOT COMMUNICATIONS NODE
		CCTV CAMERA
		DYNAMIC MESSAGE SIGN

MODEL: Default
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LEGEND		
EX. TO REMAIN	EX. TO BE REMOVED	
— (12) —	— (12) —	FIBER OPTIC CABLE (12MM STRANDS) AND TRACER CABLE NO. 14 1/C
— (24) —	— (24) —	FIBER OPTIC CABLE (12MM STRANDS / 125M STRANDS) AND TRACER CABLE NO. 14 1/C
— (36) —	— (36) —	FIBER OPTIC CABLE (12MM STRANDS / 245M STRANDS) AND TRACER CABLE NO. 14 1/C
		WIRELESS INTERCONNECT RADIO
		TRAFFIC SIGNAL CABINET

XXX-NO-XXX ASSET I.D. TAG FOR FIBER CABLES, DEVICES, AND STRUCTURES. (NO = NORTH AVENUE)

NOTES:
 1. THIS SHEET DEPICTS CABLE CONNECTIONS AND LOCATIONS OF EQUIPMENT DIAGRAMMATICALLY. SEE PLAN SHEETS FOR THE SPECIFIC LOCATION OF HANDHOLES, CONTROLLER CABINETS, AND OTHER EQUIPMENT.



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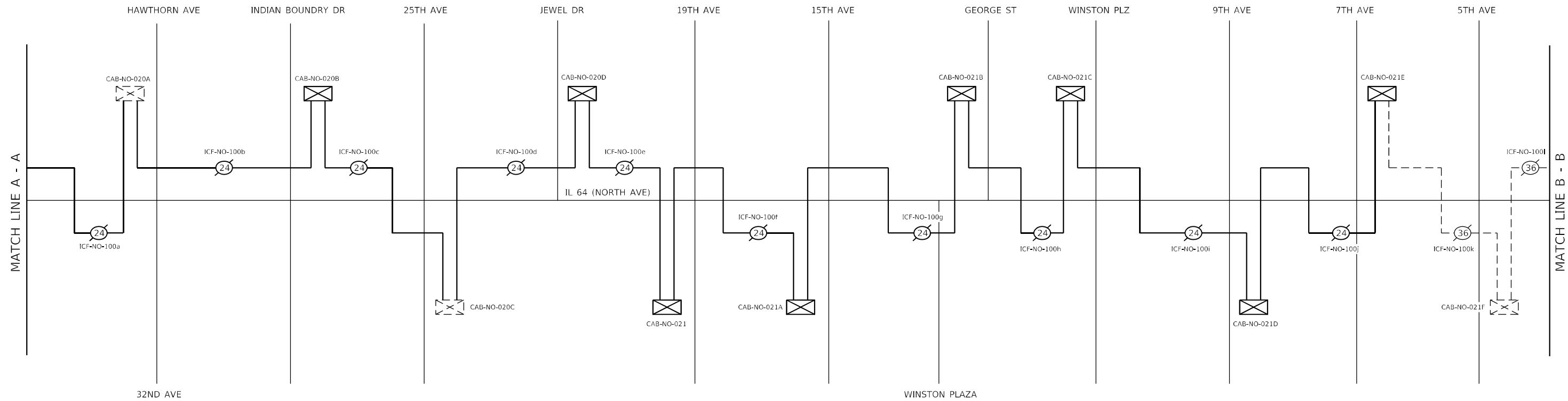
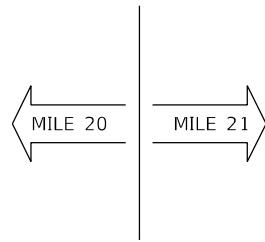
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMMUNICATIONS SINGLE LINE DIAGRAMS
FIBER OPTIC INTERCONNECT CABLE - REMOVAL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	346
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N40	

SCALE: N.T.S. SHEET 3 OF 11 SHEETS STA. TO STA.

SLD-03



LEGEND

EX. TO REMAIN	EX. TO BE REMOVED	
— (12) —	— (12) —	FIBER OPTIC CABLE (12MM STRANDS) AND TRACER CABLE NO. 14 1/C
— (24) —	— (24) —	FIBER OPTIC CABLE (12MM STRANDS / 12SM STRANDS) AND TRACER CABLE NO. 14 1/C
— (36) —	— (36) —	FIBER OPTIC CABLE (12MM STRANDS / 24SM STRANDS) AND TRACER CABLE NO. 14 1/C
		WIRELESS INTERCONNECT RADIO
		TRAFFIC SIGNAL CABINET

XXX-NO-XXX ASSET I.D. TAG FOR FIBER CABLES, DEVICES, AND STRUCTURES. (NO = NORTH AVENUE)

NOTES:
 1. THIS SHEET DEPICTS CABLE CONNECTIONS AND LOCATIONS OF EQUIPMENT DIAGRAMMATICALLY. SEE PLAN SHEETS FOR THE SPECIFIC LOCATION OF HANDHOLES, CONTROLLER CABINETS, AND OTHER EQUIPMENT.

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USER NAME = joelTurk	DESIGNED - CH	REVISED -
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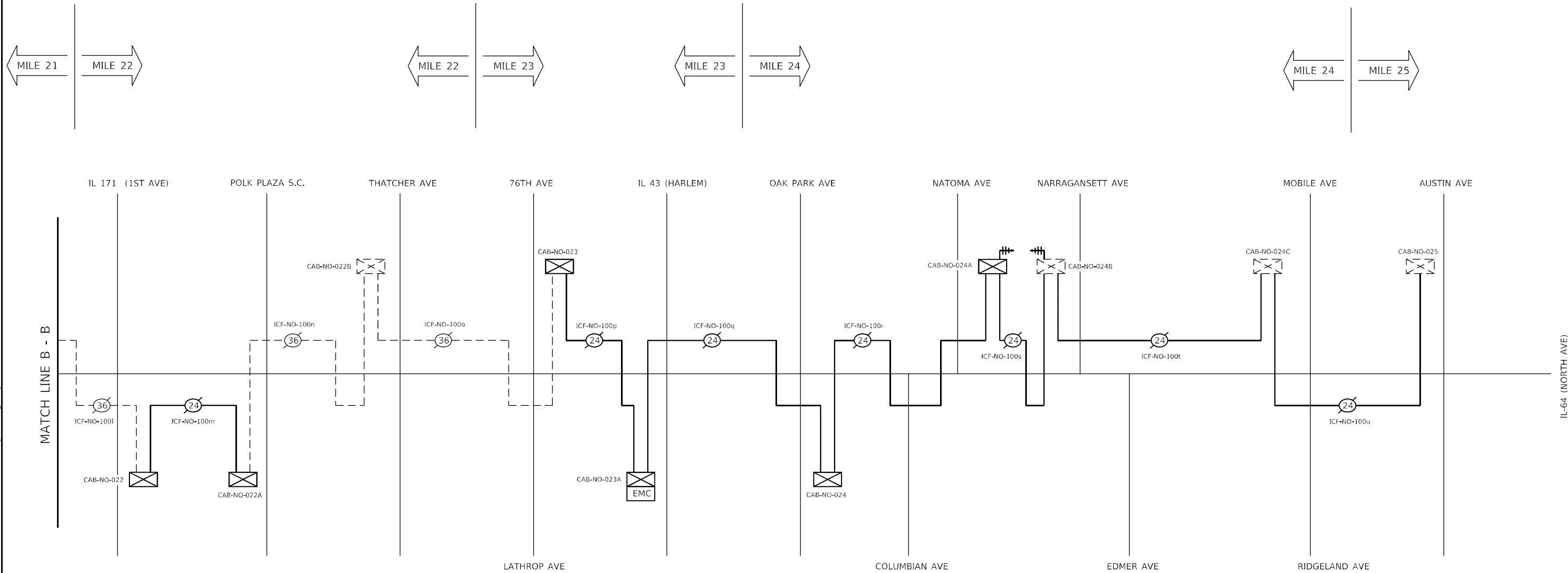
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COMMUNICATIONS SINGLE LINE DIAGRAMS
FIBER OPTIC INTERCONNECT CABLE - REMOVAL**

SCALE: N.T.S. SHEET 4 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	347
			CONTRACT NO. 62N40	
		ILLINOIS FED. AID PROJECT		

SLD-04



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LEGEND

EX. TO REMAIN	EX. TO BE REMOVED	
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— (24) —	— (24) —	FIBER OPTIC CABLE (12MM STRANDS / 12SM STRANDS) AND TRACER CABLE NO. 14 1/C
— (36) —	— (36) —	FIBER OPTIC CABLE (12MM STRANDS / 24SM STRANDS) AND TRACER CABLE NO. 14 1/C
		WIRELESS INTERCONNECT RADIO
		TRAFFIC SIGNAL CABINET

XXX-NO-XXX ASSET I.D. TAG FOR FIBER CABLES, DEVICES, AND STRUCTURES. (NO = NORTH AVENUE)

NOTES:
 1. THIS SHEET DEPICTS CABLE CONNECTIONS AND LOCATIONS OF EQUIPMENT DIAGRAMMATICALLY. SEE PLAN SHEETS FOR THE SPECIFIC LOCATION OF HANDHOLES, CONTROLLER CABINETS, AND OTHER EQUIPMENT.



USER NAME = joelTurk	DESIGNED - CH	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - JT	REVISED -
PLOT DATE = 3/22/2024	CHECKED - JZ	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

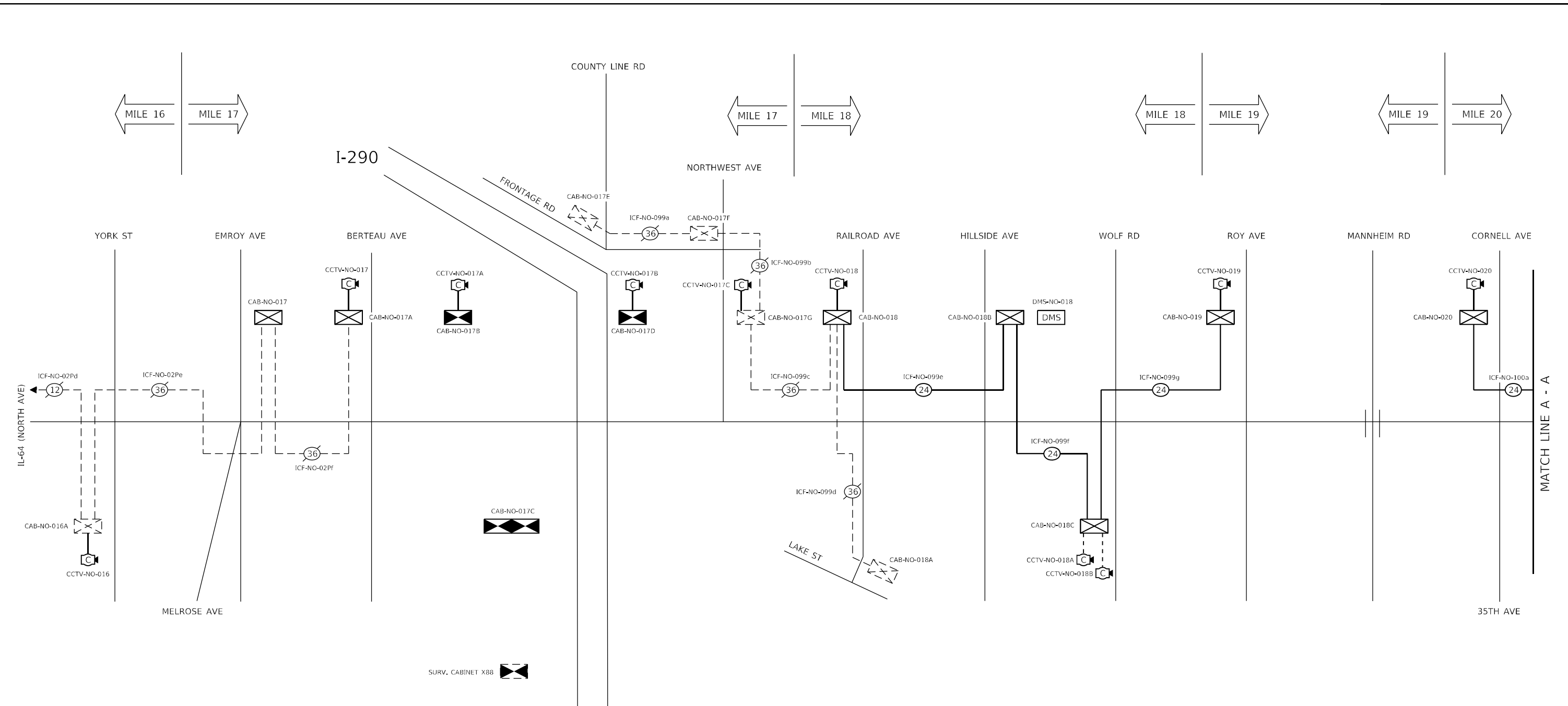
**COMMUNICATIONS SINGLE LINE DIAGRAMS
 FIBER OPTIC INTERCONNECT CABLE - REMOVAL**

SCALE: N.T.S. SHEET 5 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	348
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N40	

SLD-05

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LEGEND	
EXISTING	PROPOSED
	FIBER OPTIC CABLE (12MM STRANDS) AND TRACER CABLE NO. 14 1/C
	FIBER OPTIC CABLE (12MM STRANDS / 12SM STRANDS) AND TRACER CABLE NO. 14 1/C
	FIBER OPTIC CABLE (12MM STRANDS / 24SM STRANDS) AND TRACER CABLE NO. 14 1/C
	FIBER OPTIC CABLE (24SM STRANDS) AND TRACER CABLE NO. 14 1/C
	OUTDOOR NETWORK CABLE
	TRAFFIC SIGNAL CABINET
	ITS CABINET
	IDOT COMMUNICATIONS NODE
	CCTV CAMERA
	DYNAMIC MESSAGE SIGN (CABINET)

xxx-no-xxx ASSET I.D. TAG FOR FIBER CABLES, DEVICES, AND STRUCTURES. (NO = NORTH AVENUE)

- NOTES:
 1. THIS SHEET DEPICTS CABLE CONNECTIONS AND LOCATIONS OF EQUIPMENT DIAGRAMMATICALLY. SEE PLAN SHEETS FOR THE SPECIFIC LOCATION OF HANDHOLES, CONTROLLER CABINETS, AND OTHER EQUIPMENT. CCTV CAMERAS AT INTERSECTIONS MAY BE ON A DIFFERENT CORNER THAN SHOWN ON THIS SHEET.



USER NAME = joelTurk	DESIGNED - CH	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - JT	REVISED -
PLOT DATE = 3/22/2024	CHECKED - JZ	REVISED -
	DATE - 3/22/2024	REVISED -

DESIGNED - CH	REVISED -
DRAWN - JT	REVISED -
CHECKED - JZ	REVISED -
DATE - 3/22/2024	REVISED -

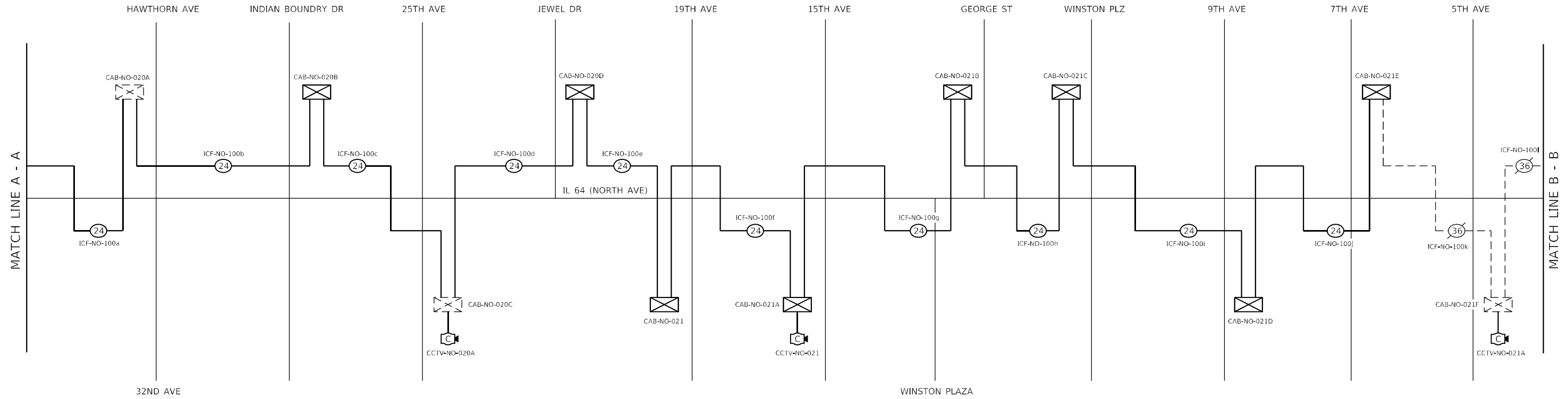
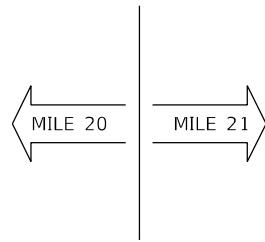
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMMUNICATIONS SINGLE LINE DIAGRAMS
FIBER OPTIC INTERCONNECT CABLE - INSTALLATION

SCALE: N.T.S. SHEET 6 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	349
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N40	

SLD-06



LEGEND

EXISTING	PROPOSED	
		FIBER OPTIC CABLE (12MM STRANDS) AND TRACER CABLE NO. 14 1/C
		FIBER OPTIC CABLE (12MM STRANDS / 12SM STRANDS) AND TRACER CABLE NO. 14 1/C
		FIBER OPTIC CABLE (12MM STRANDS / 24SM STRANDS) AND TRACER CABLE NO. 14 1/C
		FIBER OPTIC CABLE (24SM STRANDS) AND TRACER CABLE NO. 14 1/C
		OUTDOOR NETWORK CABLE
		TRAFFIC SIGNAL CABINET
		ITS CABINET
		IDOT COMMUNICATIONS NODE
		CCTV CAMERA
		DYNAMIC MESSAGE SIGN (CABINET)

xxx-no-xxx ASSET I.D. TAG FOR FIBER CABLES, DEVICES, AND STRUCTURES. (NO = NORTH AVENUE)

- NOTES:
 1. THIS SHEET DEPICTS CABLE CONNECTIONS AND LOCATIONS OF EQUIPMENT DIAGRAMMATICALLY. SEE PLAN SHEETS FOR THE SPECIFIC LOCATION OF HANDHOLES, CONTROLLER CABINETS, AND OTHER EQUIPMENT. CCTV CAMERAS AT INTERSECTIONS MAY BE ON A DIFFERENT CORNER THAN SHOWN ON THIS SHEET.

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PLOT DATE = 3/22/2024	DATE - 3/22/2024	REVISED -

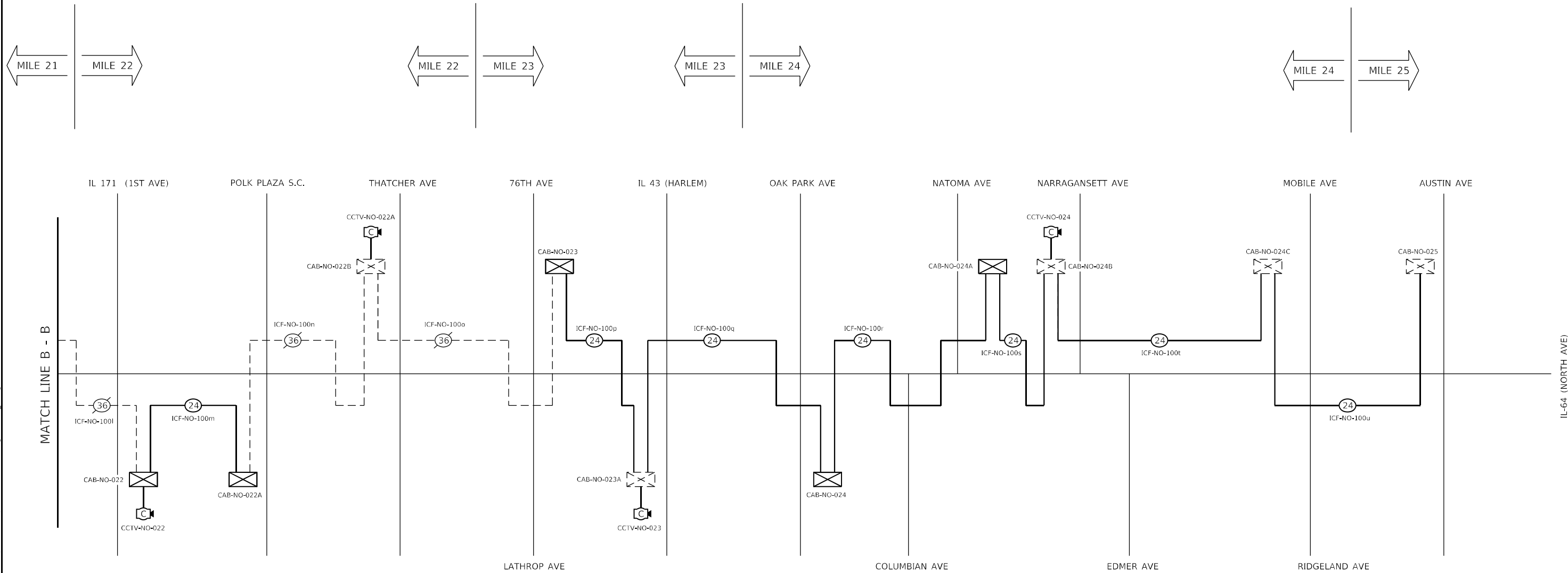
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COMMUNICATIONS SINGLE LINE DIAGRAMS
FIBER OPTIC INTERCONNECT CABLE - INSTALLATION**

SCALE: N.T.S. SHEET 7 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	350
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N40	

SLD-07



LEGEND

EXISTING	PROPOSED	
		FIBER OPTIC CABLE (12MM STRANDS) AND TRACER CABLE NO. 14 1/C
		FIBER OPTIC CABLE (12MM STRANDS / 12SM STRANDS) AND TRACER CABLE NO. 14 1/C
		FIBER OPTIC CABLE (12MM STRANDS / 24SM STRANDS) AND TRACER CABLE NO. 14 1/C
		FIBER OPTIC CABLE (24SM STRANDS) AND TRACER CABLE NO. 14 1/C
		OUTDOOR NETWORK CABLE
		TRAFFIC SIGNAL CABINET
		ITS CABINET
		IDOT COMMUNICATIONS NODE
		CCTV CAMERA
		DYNAMIC MESSAGE SIGN (CABINET)

xxx-no-xxx ASSET I.D. TAG FOR FIBER CABLES, DEVICES, AND STRUCTURES. (NO = NORTH AVENUE)

- NOTES:
 1. THIS SHEET DEPICTS CABLE CONNECTIONS AND LOCATIONS OF EQUIPMENT DIAGRAMMATICALLY. SEE PLAN SHEETS FOR THE SPECIFIC LOCATION OF HANDHOLES, CONTROLLER CABINETS, AND OTHER EQUIPMENT. CCTV CAMERAS AT INTERSECTIONS MAY BE ON A DIFFERENT CORNER THAN SHOWN ON THIS SHEET.

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USER NAME = joelTurk	DESIGNED - CH	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - JT	REVISED -
PLOT DATE = 3/22/2024	CHECKED - JZ	REVISED -
	DATE - 3/22/2024	REVISED -

DESIGNED - CH	REVISED -
DRAWN - JT	REVISED -
CHECKED - JZ	REVISED -
DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

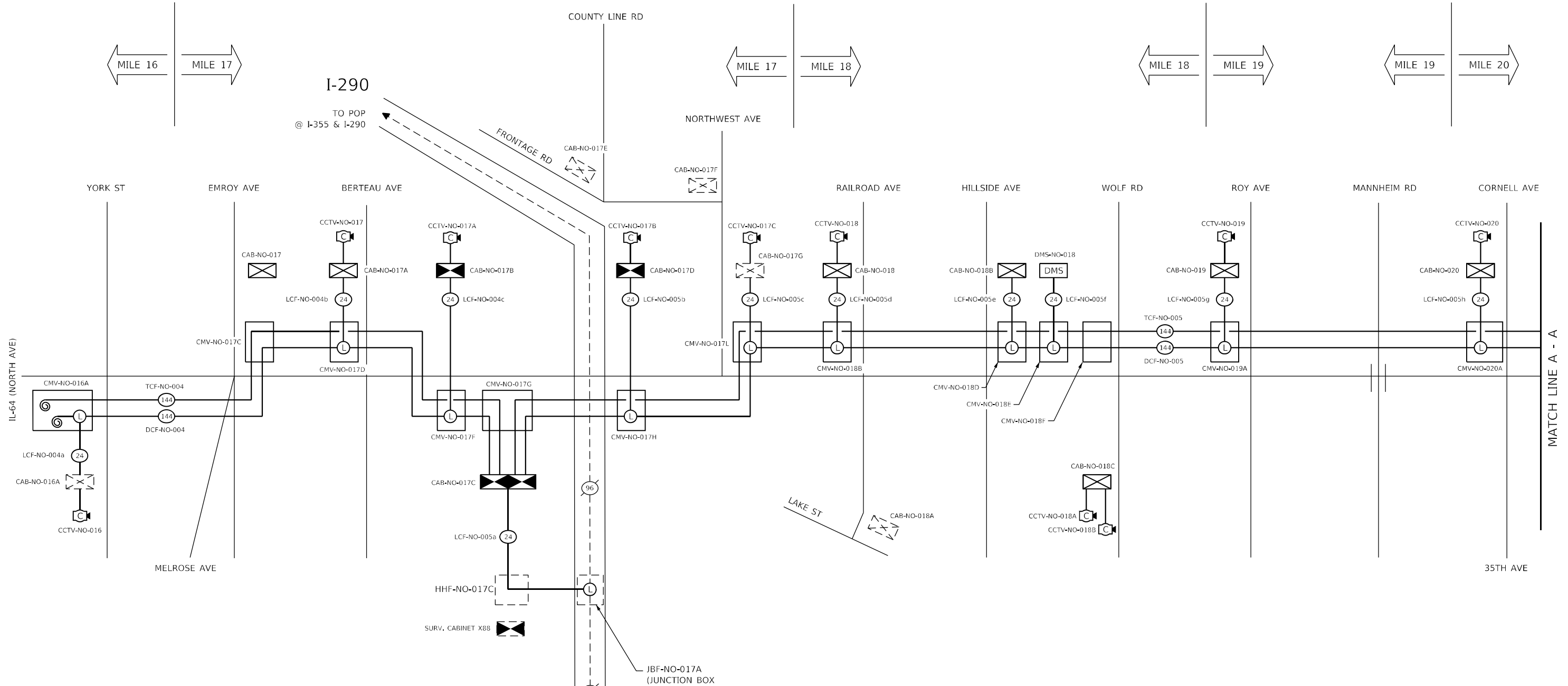
**COMMUNICATIONS SINGLE LINE DIAGRAMS
FIBER OPTIC INTERCONNECT CABLE - INSTALLATION**

SCALE: N.T.S. SHEET 8 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	351
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N40	

SLD-08

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LEGEND

EXISTING	PROPOSED	DESCRIPTION
		FIBER OPTIC CABLE (XX = STRAND COUNT)
		OUTDOOR NETWORK CABLE
		LATERAL SPLICE LOCATION
		COMMUNICATIONS VAULT, HANDHOLE, OR JUNCTION BOX
		TRAFFIC SIGNAL CABINET
		ITS CABINET
		IDOT COMMUNICATIONS NODE
		CCTV CAMERA
		DYNAMIC MESSAGE SIGN (CABINET)

XXX-NO-XXX ASSET I.D. TAG FOR FIBER CABLES, DEVICES, AND STRUCTURES. (NO = NORTH AVENUE)

- NOTES:**
- THIS SHEET DEPICTS CABLE CONNECTIONS AND LOCATIONS OF EQUIPMENT DIAGRAMMATICALLY. SEE PLAN SHEETS FOR THE SPECIFIC LOCATION OF VAULTS, CONTROLLER CABINETS, AND OTHER EQUIPMENT. CCTV CAMERAS AT INTERSECTIONS MAY BE ON A DIFFERENT CORNER THAN SHOWN ON THIS SHEET.
 - THIS SHEET ONLY SHOWS COMMUNICATIONS VAULTS AT KEY POINTS SUCH AS SPLICE POINTS OR POTENTIAL FUTURE SPLICE POINTS. SEE PLAN SHEETS FOR THE LOCATION OF ALL INTERMEDIATE COMMUNICATIONS VAULTS AND HANDHOLES.
 - MAINLINE SPLICES (END-OF-REEL) LOCATIONS ARE NOT SHOWN FOR CLARITY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING MAINLINE SPLICE LOCATIONS BASED UPON MINIMIZING DISTANCE BETWEEN COMMUNICATIONS NODES. MAINLINE SPLICES ARE INCLUDED IN THE COST OF FIBER OPTIC CABLE INSTALLATION AND WILL NOT BE PAID FOR SEPARATELY.



USER NAME = joel.turk	DESIGNED - CH	REVISED -
	DRAWN - JT	REVISED -
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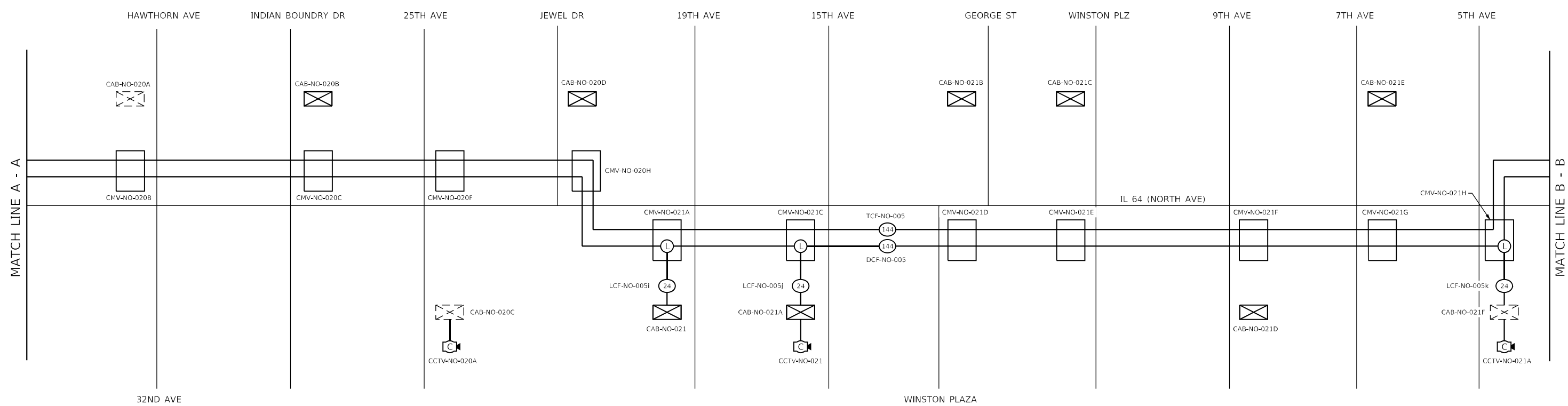
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COMMUNICATIONS SINGLE LINE DIAGRAMS
FIBER OPTIC TRUNK, DISTRIBUTION, AND LATERAL CABLE - INSTALLATION**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	352
CONTRACT NO. 62N40				

SCALE: N.T.S. SHEET 9 OF 11 SHEETS STA. TO STA.

SLD-09



LEGEND		
EXISTING	PROPOSED	
		FIBER OPTIC CABLE (XX = STRAND COUNT)
		OUTDOOR NETWORK CABLE
		LATERAL SPLICE LOCATION
		COMMUNICATIONS VAULT, HANDHOLE, OR JUNCTION BOX
		TRAFFIC SIGNAL CABINET
		ITS CABINET
		IDOT COMMUNICATIONS NODE
		CCTV CAMERA
		DYNAMIC MESSAGE SIGN (CABINET)

XXX-NO-XXX ASSET I.D. TAG FOR FIBER CABLES, DEVICES, AND STRUCTURES. (NO = NORTH AVENUE)

- NOTES:
- THIS SHEET DEPICTS CABLE CONNECTIONS AND LOCATIONS OF EQUIPMENT DIAGRAMMATICALLY. SEE PLAN SHEETS FOR THE SPECIFIC LOCATION OF VAULTS, CONTROLLER CABINETS, AND OTHER EQUIPMENT. CCTV CAMERAS AT INTERSECTIONS MAY BE ON A DIFFERENT CORNER THAN SHOWN ON THIS SHEET.
 - THIS SHEET ONLY SHOWS COMMUNICATIONS VAULTS AT KEY POINTS SUCH AS SPLICE POINTS OR POTENTIAL FUTURE SPLICE POINTS. SEE PLAN SHEETS FOR THE LOCATION OF ALL INTERMEDIATE COMMUNICATIONS VAULTS AND HANDHOLES.
 - MAINLINE SPLICES (END-OF-REEL) LOCATIONS ARE NOT SHOWN FOR CLARITY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING MAINLINE SPLICE LOCATIONS BASED UPON MINIMIZING DISTANCE BETWEEN COMMUNICATIONS NODES. MAINLINE SPLICES ARE INCLUDED IN THE COST OF FIBER OPTIC CABLE INSTALLATION AND WILL NOT BE PAID FOR SEPARATELY.

SLD-10

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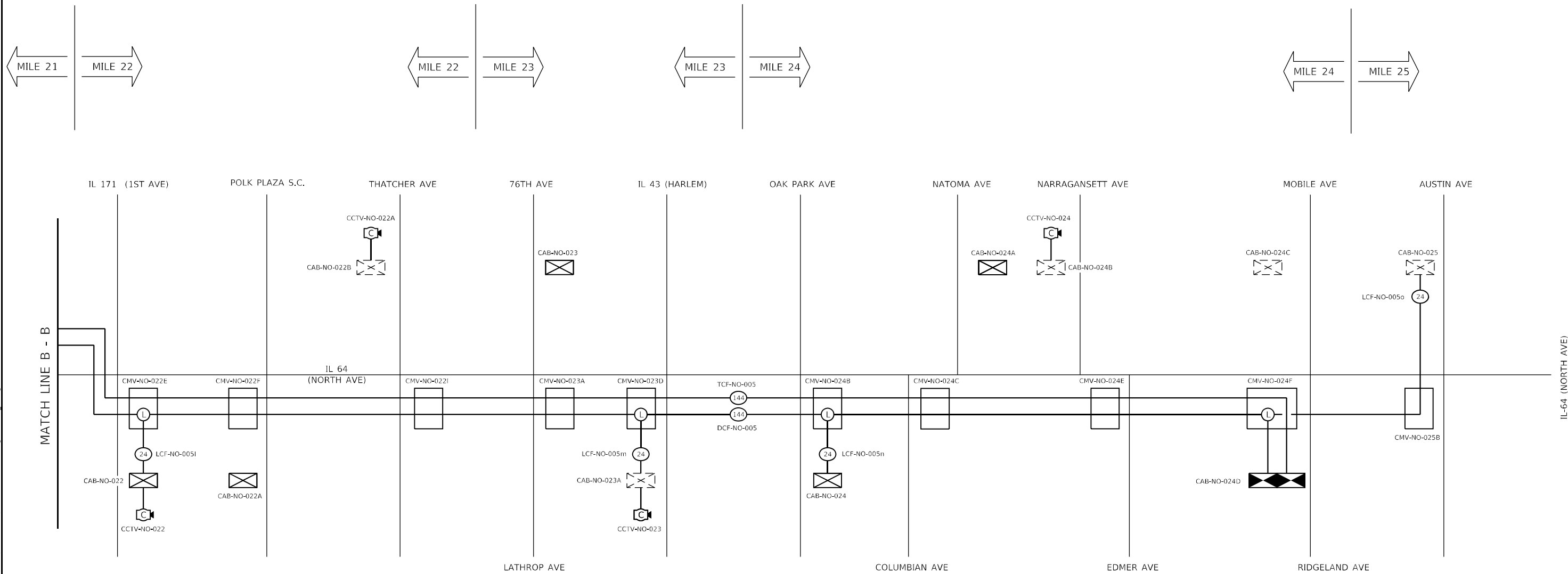
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	DRAWN - JT	REVISED -
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PLOT DATE = 3/22/2024	DATE - 3/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COMMUNICATIONS SINGLE LINE DIAGRAMS
FIBER OPTIC TRUNK, DISTRIBUTION, AND LATERAL CABLE - INSTALLATION**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	353
CONTRACT NO. 62N40				
ILLINOIS		FED. AID PROJECT		

SCALE: N.T.S. SHEET 10 OF 11 SHEETS STA. TO STA.



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LEGEND		
EXISTING	PROPOSED	
		FIBER OPTIC CABLE (XX = STRAND COUNT)
		OUTDOOR NETWORK CABLE
		LATERAL SPLICE LOCATION
		COMMUNICATIONS VAULT, HANDHOLE, OR JUNCTION BOX
		TRAFFIC SIGNAL CABINET
		ITS CABINET
		IDOT COMMUNICATIONS NODE
		CCTV CAMERA
		DYNAMIC MESSAGE SIGN (CABINET)

XXX-NO-XXX ASSET I.D. TAG FOR FIBER CABLES, DEVICES, AND STRUCTURES. (NO = NORTH AVENUE)

- NOTES:
- THIS SHEET DEPICTS CABLE CONNECTIONS AND LOCATIONS OF EQUIPMENT DIAGRAMMATICALLY. SEE PLAN SHEETS FOR THE SPECIFIC LOCATION OF VAULTS, CONTROLLER CABINETS, AND OTHER EQUIPMENT. CCTV CAMERAS AT INTERSECTIONS MAY BE ON A DIFFERENT CORNER THAN SHOWN ON THIS SHEET.
 - THIS SHEET ONLY SHOWS COMMUNICATIONS VAULTS AT KEY POINTS SUCH AS SPLICE POINTS OR POTENTIAL FUTURE SPLICE POINTS. SEE PLAN SHEETS FOR THE LOCATION OF ALL INTERMEDIATE COMMUNICATIONS VAULTS AND HANDHOLES.
 - MAINLINE SPLICES (END-OF-REEL) LOCATIONS ARE NOT SHOWN FOR CLARITY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING MAINLINE SPLICE LOCATIONS BASED UPON MINIMIZING DISTANCE BETWEEN COMMUNICATIONS NODES. MAINLINE SPLICES ARE INCLUDED IN THE COST OF FIBER OPTIC CABLE INSTALLATION AND WILL NOT BE PAID FOR SEPARATELY.

SLD-11



USER NAME = joelTurk	DESIGNED - CH	REVISED -
	DRAWN - JT	REVISED -
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PLOT DATE = 3/22/2024	DATE - 3/22/2024	REVISED -










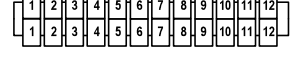




**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COMMUNICATIONS SINGLE LINE DIAGRAMS
FIBER OPTIC TRUNK, DISTRIBUTION, AND LATERAL CABLE - INSTALLATION**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK/DUPAGE	492	354
CONTRACT NO. 62N40			ILLINOIS FED. AID PROJECT	

SCALE: N.T.S. SHEET 11 OF 11 SHEETS STA. TO STA.

NETWORK DIAGRAM LEGEND

SYMBOL	DESCRIPTION
FOC XXF YY [ZZZ] 	FIBER OPTIC CABLE (XX = STRAND COUNT, YY = FIBER TYPE, ZZZ = DESIGNATION)
	STRAND COLOR AND NUMBER
	FIBER OPTIC PIGTAIL, SINGLE MODE
	SIMPLEX FIBER OPTIC JUMPER, SINGLE MODE (PATCH PANEL TO DEVICE)
	SIMPLEX FIBER OPTIC JUMPER, SINGLE MODE (PATCH PANEL TO PATCH PANEL)
	DUPLEX FIBER OPTIC JUMPER, SINGLE MODE (PATCH PANEL TO PATCH PANEL)
	DUPLEX FIBER OPTIC JUMPER, SINGLE MODE (PATCH PANEL TO DEVICE)
	FIBER OPTIC FUSION SPLICE
	NON-TERMINATED FIBER STRAND
	FIBER PATCH PANEL MODULE (POSITION NUMBER INDICATED)
	FIBER OPTIC CABLE TRANSCEIVER (XXX = DATA TRANSMISSION RATE)
	RJ-45 PORT ETHERNET PORT
	CAT-6 CABLE
	PAN-TILT-ZOOM CCTV CAMERA

NOTE: UNOCCUPIED PORTS ARE FILLED WHITE, OCCUPIED PORTS ARE FILLED BLACK

GENERAL NOTES

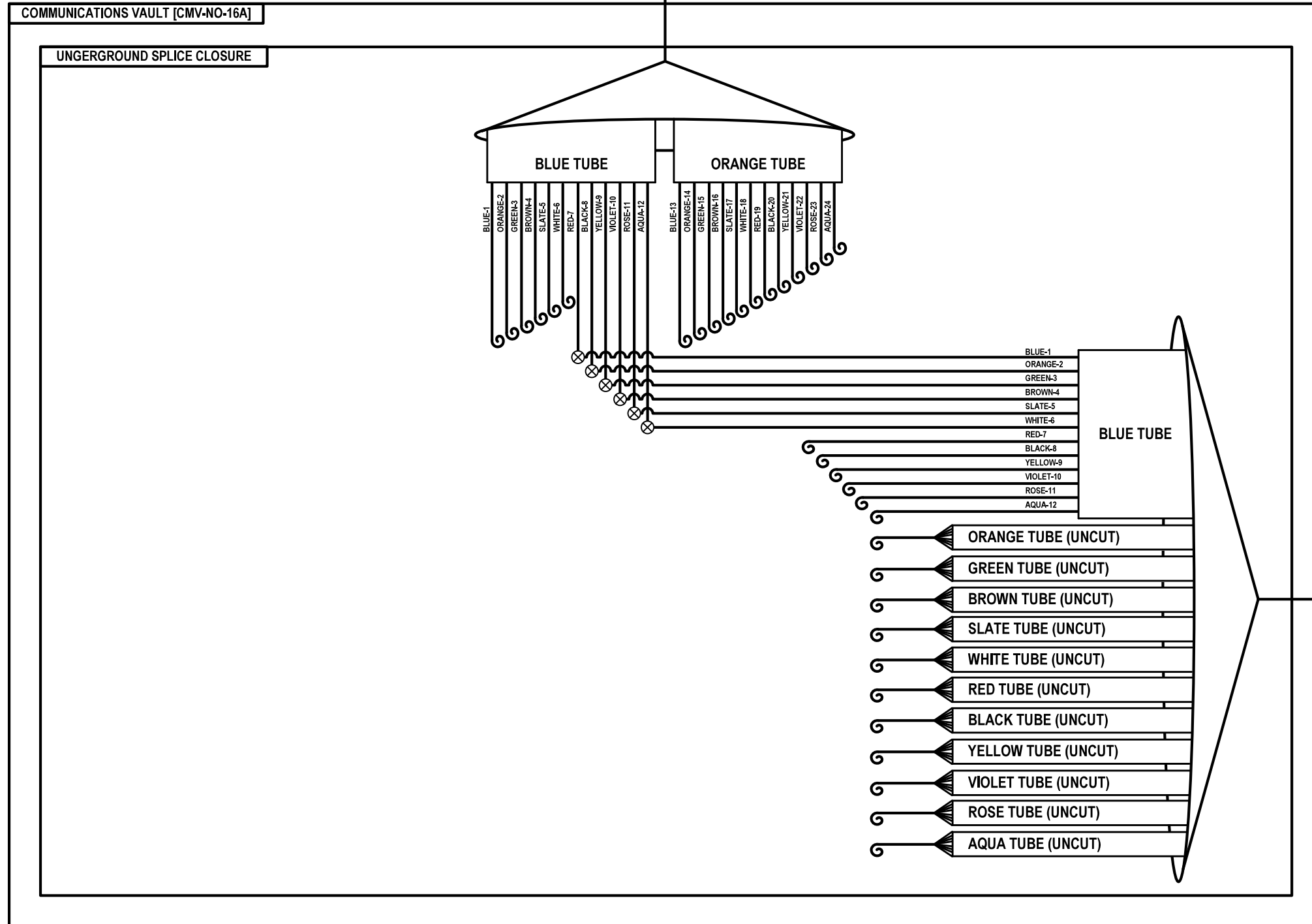
- UNUSED PORTS ON THE FIBER DISTRIBUTION PANEL SHALL BE COVERED WITH A BLANK PANEL.
- DARK FIBER OPTIC STRANDS AND TUBES SHALL PASS THROUGH SPLICE CLOSURES UNCUT.
- CONTRACTOR SHALL DETERMINE THE LOCATION OF THE END-OF-REEL SPLICES BASED UPON CABLE REEL SIZE PROCURED AND MAXIMUM DISTANCE THAT CAN BE PULLED WITHOUT EXCEEDING MANUFACTURER SPECIFICATIONS FOR CABLE TENSION. END-OF-REEL SPLICES SHALL BE CO-LOCATED WITH LATERAL SPLICE LOCATIONS WHERE POSSIBLE. END-OF-REEL SPLICES ARE INCLUDED IN THE COST OF CABLE INSTALLATION AND WILL NOT BE PAID FOR SEPARATELY. ONLY SPLICES BETWEEN THE 24 STRAND LATERAL FIBER CABLES AND 144 STRAND BACKBONE CABLE WILL BE PAID FOR ON A PER EACH BASIS. FUSION SPLICES TO FIBER OPTIC PIGTAILS IN FIBER DISTRIBUTION PANELS ARE INCLUDED IN THE COST OF CABLE TERMINATION.
- UPON SUCCESSFUL INSTALLATION, SPLICING, AND TERMINATION OF ALL FIBER OPTIC CABLES THE CONTRACTOR SHALL TEST EACH STRAND TO ENSURE THAT LOSS IS WITHIN ACCEPTABLE PARAMETERS PER THE SPECIFICATIONS.
- FIBER OPTIC TRANSCEIVERS INSTALLED IN LAYER II (DATALINK) SWITCHES SHALL HAVE DATA TRANSMISSION RATES OF 1 GBPS AND BE CISCO MODEL GLC-LX-SM-RGD (OR APPROVED EQUAL) UNLESS OTHERWISE NOTED ON THE PLANS.
- FIBER OPTIC TRANSCEIVERS INSTALLED IN LAYER III SWITCHES FOR CONNECTION TO LAYER II (DATALINK) SWITCHES SHALL HAVE DATA TRANSMISSION RATES OF 1 GBPS AND BE CISCO MODEL GLC-LX-SM-RGD (OR APPROVED EQUAL) UNLESS OTHERWISE NOTED ON THE PLANS.
- FIBER OPTIC TRANSCEIVERS INSTALLED IN LAYER III (NETWORK) SWITCHES FOR CONNECTION TO OTHER LAYER III (NETWORK) SWITCHES SHALL HAVE DATA TRANSMISSION RATES OF 10 GBPS AND BE CISCO MODEL SFP-10G-BX40U-I (OR APPROVED EQUAL) UNLESS OTHERWISE NOTED ON THE PLANS.

FOC-01

Jacobs	USER NAME = \$USERS	DESIGNED JJZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING AND CABINET CONNECTION DETAILS LEGEND AND GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = \$DATES	DATE 03/22/2024	REVISED -			SCALE:	SHEET NO. 1 OF 57 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		

TO YORK ST
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-016A]

NOTES:
1. FIBER OPTIC TRUNK CABLE TCF-NO-004 NOT SHOWN FOR CLARITY.
COIL FIBER OPTIC CABLE IN COMMUNICATIONS VAULT AND CAP END TO
PREVENT DAMAGE.



FOC-02

	USER NAME = \$USERS	DESIGNED JJZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-016A]	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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							ILLINOIS	FED. AID PROJECT			

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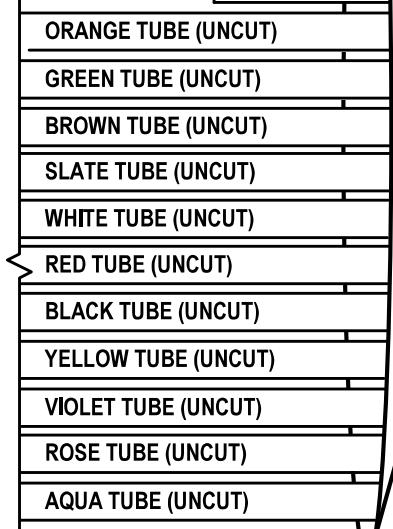
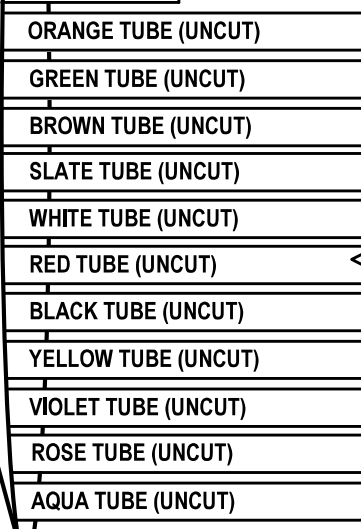
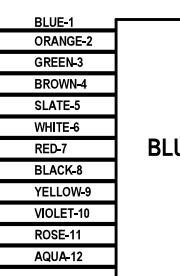
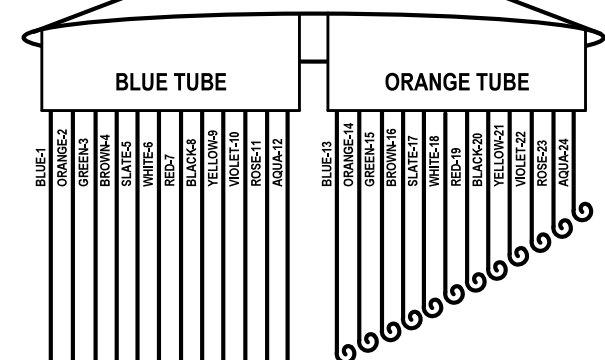
SCALE: SHEET NO. 2 OF 57 SHEETS STA. TO STA.

TO BERTEAU AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-017A]

FOC 24F SM [LCF-NO-004b]

COMMUNICATIONS VAULT [CMV-NO-17D]

UNGERGROUND SPLICE CLOSURE



TUBES PASS THROUGH
COMMUNICATIONS
VAULT

WEST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-016A]

FOC 144F SM
[DCF-NO-004]

FOC 144F SM
[DCF-NO-004]

EAST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-017F]

FOC-03

	USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-017D]	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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						ILLINOIS	FED. AID PROJECT			

FILE NAME = \$FILES\$

SCALE: SHEET NO. 3 OF 57 SHEETS STA. TO STA.

TO I-290 INTERCHANGE WEST
CCTV CAMERA CONTROLLER CABINET
[CAB-NO-017B]

FOC 24F SM [LCF-NO-004c]

COMMUNICATIONS VAULT [CMV-NO-17F]

UNGERGROUND SPLICE CLOSURE

BLUE TUBE ORANGE TUBE

BLUE-1
ORANGE-2
GREEN-3
BROWN-4
SLATE-5
WHITE-6
RED-7
BLACK-8
YELLOW-9
VIOLET-10
ROSE-11
AQUA-12
BLUE-13
ORANGE-14
GREEN-15
BROWN-16
SLATE-17
WHITE-18
RED-19
BLACK-20
YELLOW-21
VIOLET-22
ROSE-23
AQUA-24

BLUE TUBE

BLUE-1
ORANGE-2
GREEN-3
BROWN-4
SLATE-5
WHITE-6
RED-7
BLACK-8
YELLOW-9
VIOLET-10
ROSE-11
AQUA-12

BLUE TUBE

BLUE-1
ORANGE-2
GREEN-3
BROWN-4
SLATE-5
WHITE-6
RED-7
BLACK-8
YELLOW-9
VIOLET-10
ROSE-11
AQUA-12

ORANGE TUBE (UNCUT)

GREEN TUBE (UNCUT)

BROWN TUBE (UNCUT)

SLATE TUBE (UNCUT)

WHITE TUBE (UNCUT)

RED TUBE (UNCUT)

BLACK TUBE (UNCUT)

YELLOW TUBE (UNCUT)

VIOLET TUBE (UNCUT)

ROSE TUBE (UNCUT)

AQUA TUBE (UNCUT)

ORANGE TUBE (UNCUT)

GREEN TUBE (UNCUT)

BROWN TUBE (UNCUT)

SLATE TUBE (UNCUT)

WHITE TUBE (UNCUT)

RED TUBE (UNCUT)

BLACK TUBE (UNCUT)

YELLOW TUBE (UNCUT)

VIOLET TUBE (UNCUT)

ROSE TUBE (UNCUT)

AQUA TUBE (UNCUT)

TUBES PASS THROUGH
COMMUNICATIONS
VAULT

WEST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-017D]

FOC 144F SM
[DCF-NO-004]

FOC 144F SM
[DCF-NO-004]

EAST TO NODE CABINET
[CAB-NO-017C]

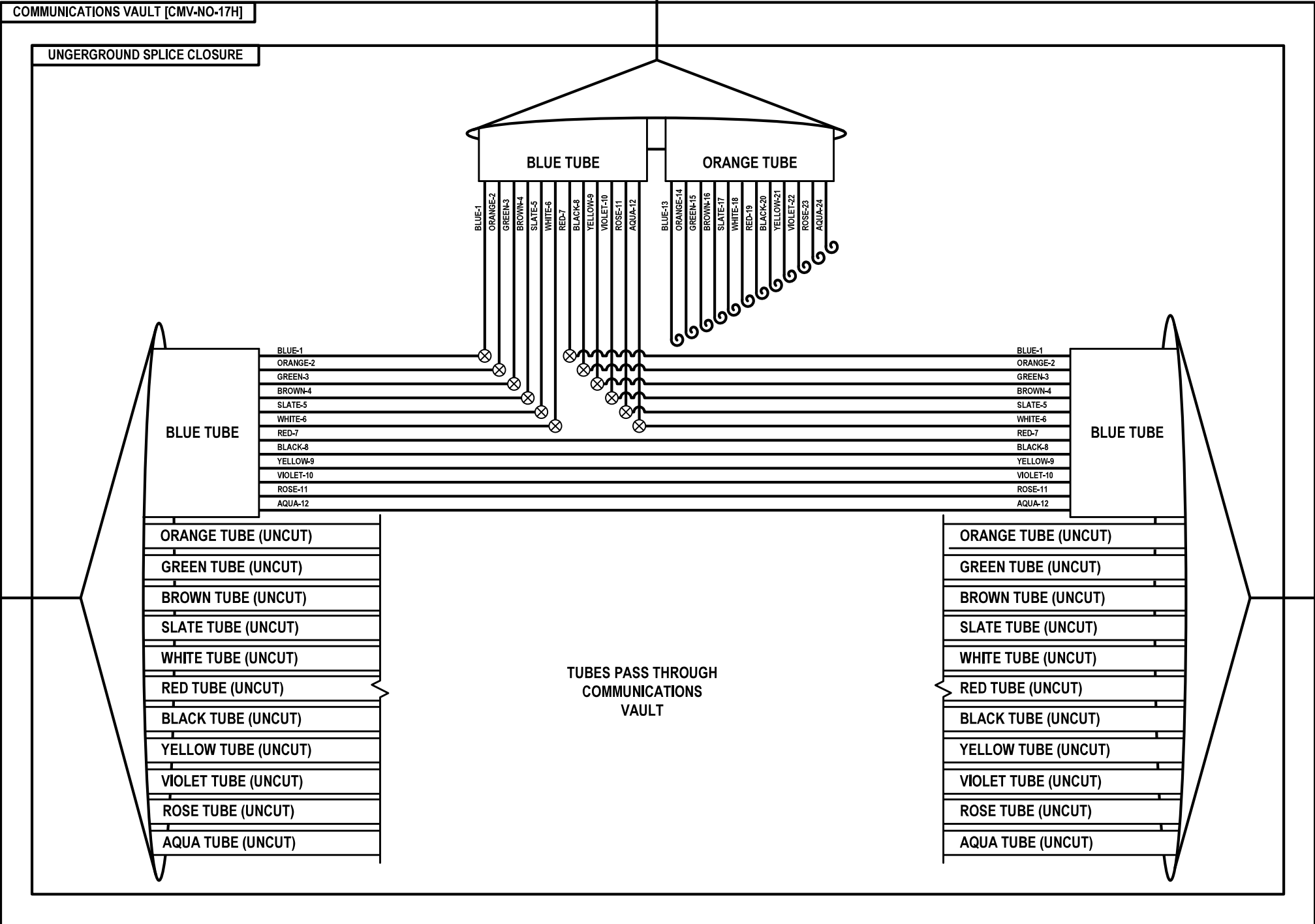
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						ILLINOIS	FED. AID PROJECT			

FILE NAME = \$FILES\$

SCALE: SHEET NO. 4 OF 57 SHEETS STA. TO STA.

TO I-290 INTERCHANGE EAST
CCTV CAMERA CONTROLLER CABINET
[CAB-NO-017D]



WEST TO NODE CABINET
[CAB-NO-017C]

FOC 144F SM
[DCF-NO-005]



FOC 144F SM
[DCF-NO-005]



EAST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-017L]

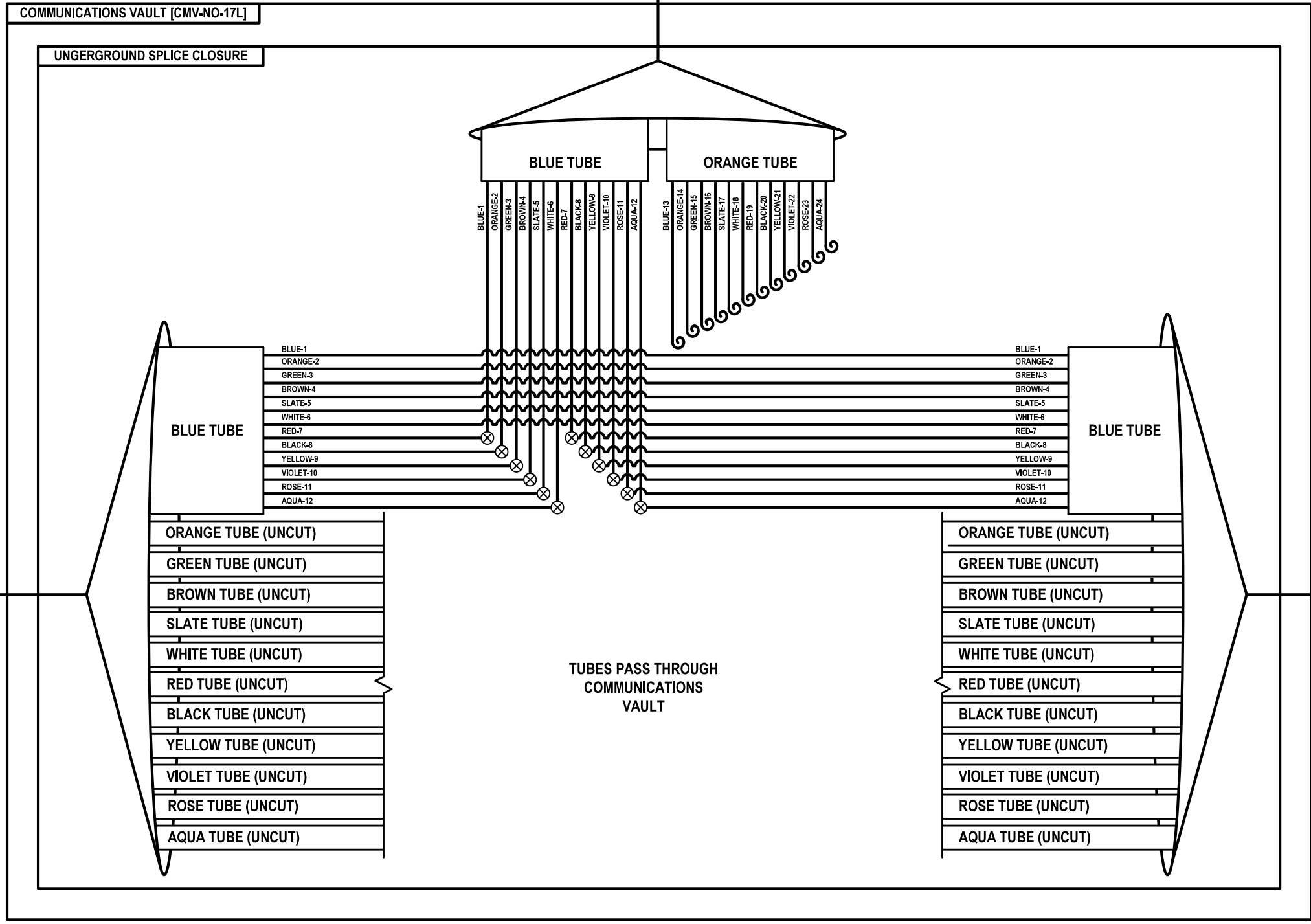
FOC-05

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						ILLINOIS	FED. AID PROJECT			

FILE NAME = \$FILES\$

SCALE: SHEET NO. 5 OF 57 SHEETS STA. TO STA.

TO NORTHWEST AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-017G]



WEST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-017H]

FOC 144F SM
[DCF-NO-005]



FOC 144F SM
[DCF-NO-005]



EAST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-018B]

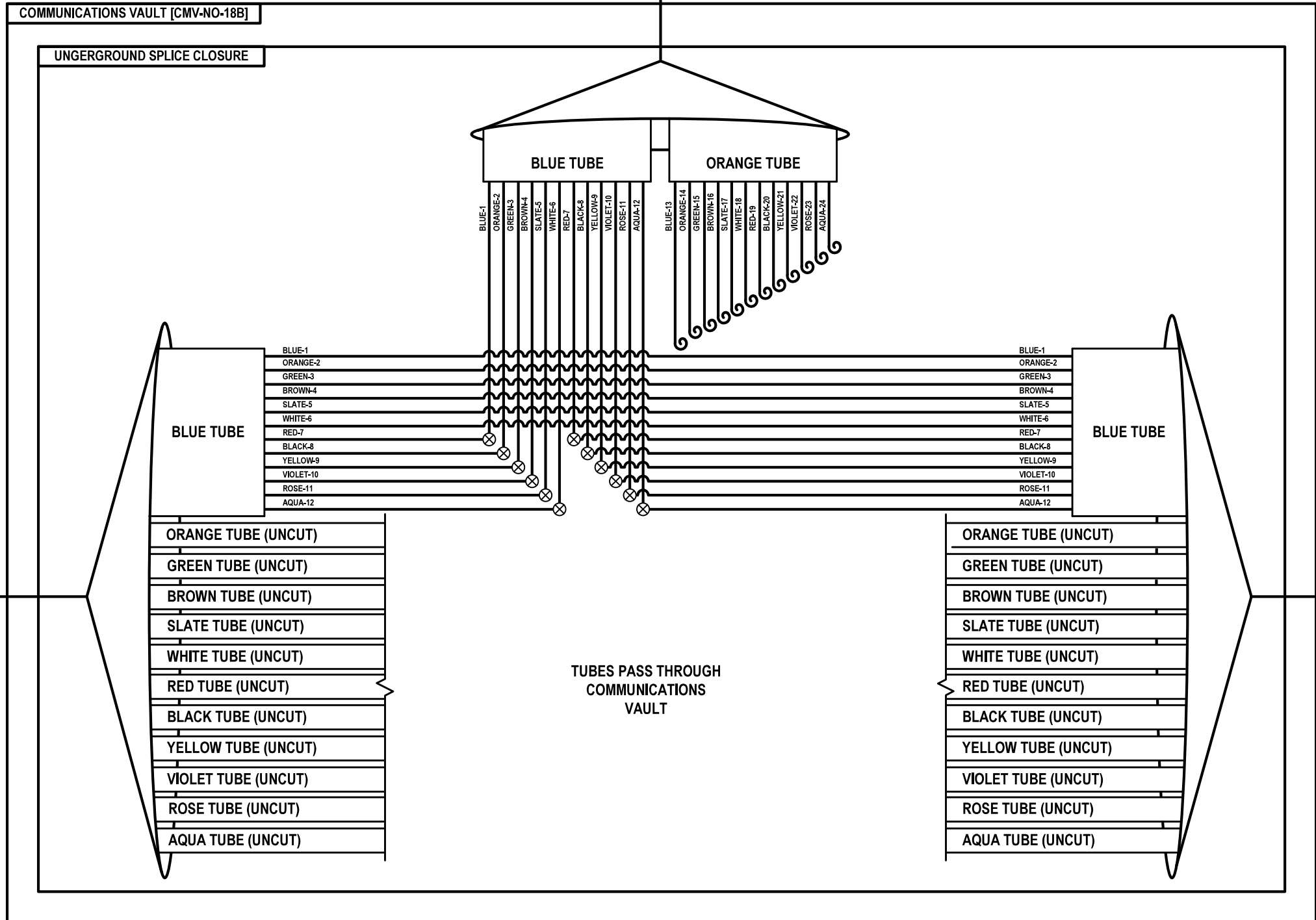
FOC-06

	USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-017L]	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$\$SCALE\$	CHECKED CRH	REVISED -			307	2020-263-SUR, SW&TS	COOK	492	360
	PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -			CONTRACT NO. 62N40				
						ILLINOIS	FED. AID PROJECT			

FILE NAME = \$FILES\$

SCALE: SHEET NO. 6 OF 57 SHEETS STA. TO STA.

TO RAILROAD AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-018]



WEST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-017L]

FOC 144F SM
[DCF-NO-005]

FOC 144F SM
[DCF-NO-005]

EAST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-018D]

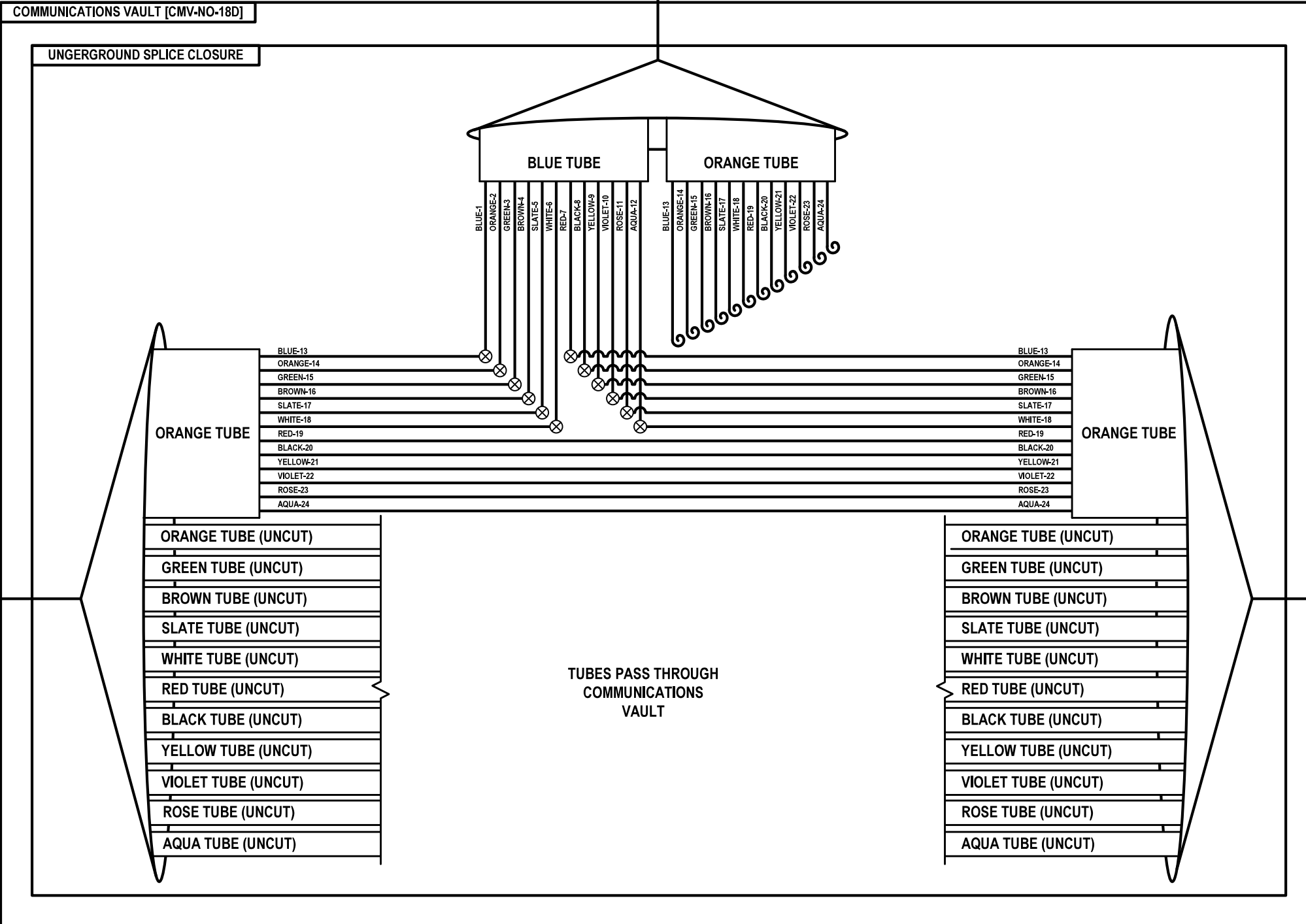
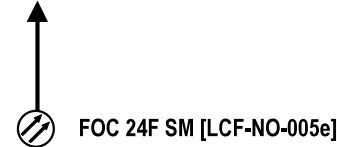
FOC-07

	USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-018B]	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$\$SCALE\$	CHECKED CRH	REVISED -			307	2020-263-SUR, SW&TS	COOK	492	361
	PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -			CONTRACT NO. 62N40				
						ILLINOIS	FED. AID PROJECT			

FILE NAME = \$FILES\$

SCALE: SHEET NO. 7 OF 57 SHEETS STA. TO STA.

TO HILLSIDE AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-018B]



WEST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-018B]

FOC 144F SM
[DCF-NO-005]



FOC 144F SM
[DCF-NO-005]



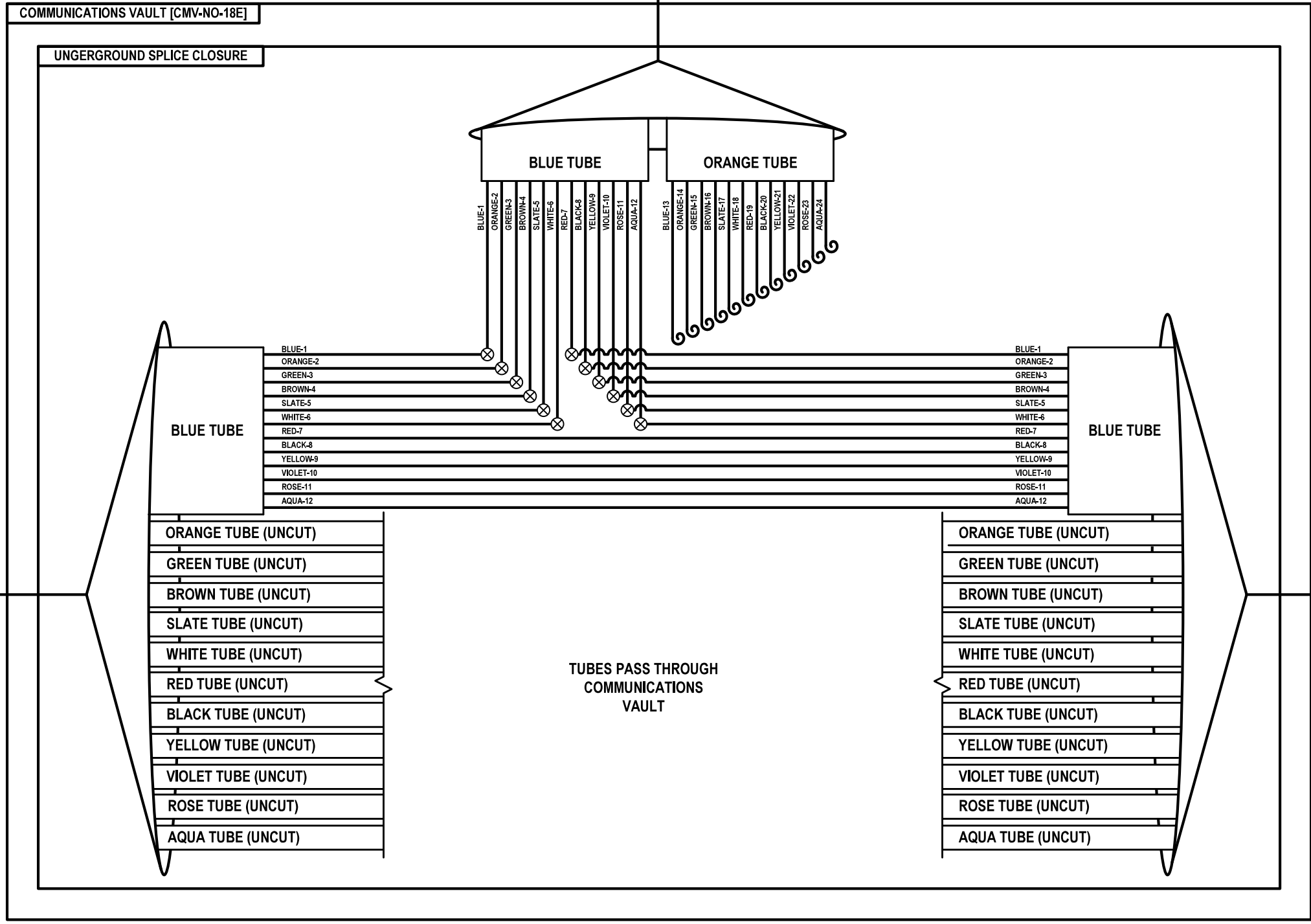
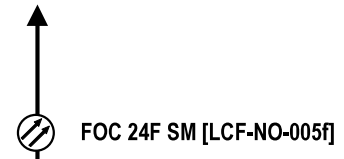
EAST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-018E]

FOC-08

	USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-018D]	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = \$SCALES\$	CHECKED CRH	REVISED -			307	2020-263-SUR, SW&TS	COOK	492	362	
	PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -			CONTRACT NO. 62N40					
	SCALE:						SHEET NO. 8 OF 57 SHEETS		STA. TO STA.		ILLINOIS FED. AID PROJECT

FILE NAME = \$FILES\$

TO DYNAMIC MESSAGE SIGN
[DMS-NO-018]



WEST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-018D]



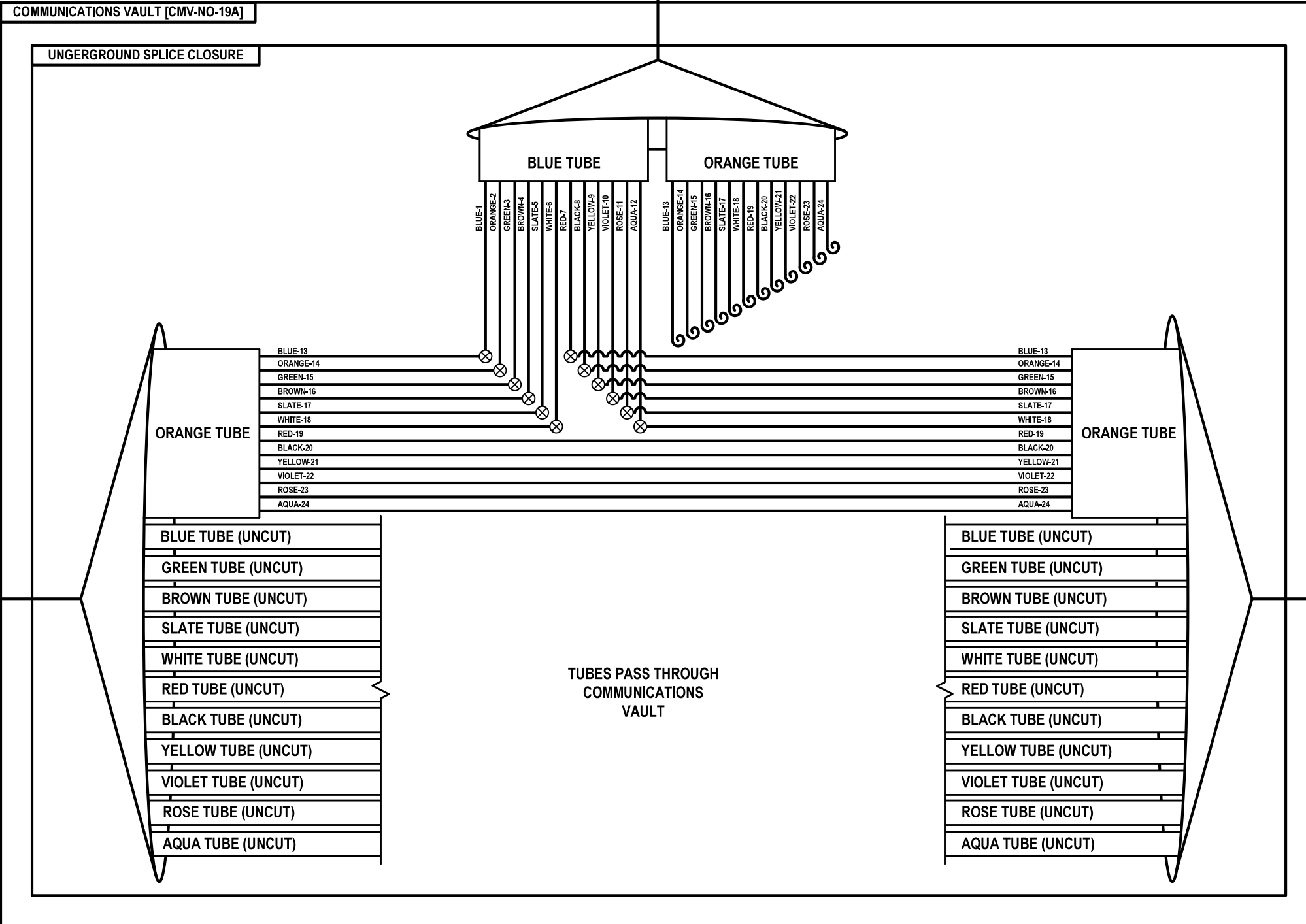
EAST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-019A]

FOC-09

	USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-018E]	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = \$SCALES\$	CHECKED CRH	REVISED -			307	2020-263-SUR,SW&TS	COOK	492	363	
	PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -			CONTRACT NO. 62N40					
	SCALE:						SHEET NO. 9 OF 57 SHEETS		STA. TO STA.		ILLINOIS FED. AID PROJECT

FILE NAME = \$FILES\$

TO ROY AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-019]



WEST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-018E]

FOC 144F SM
[DCF-NO-005]



FOC 144F SM
[DCF-NO-005]

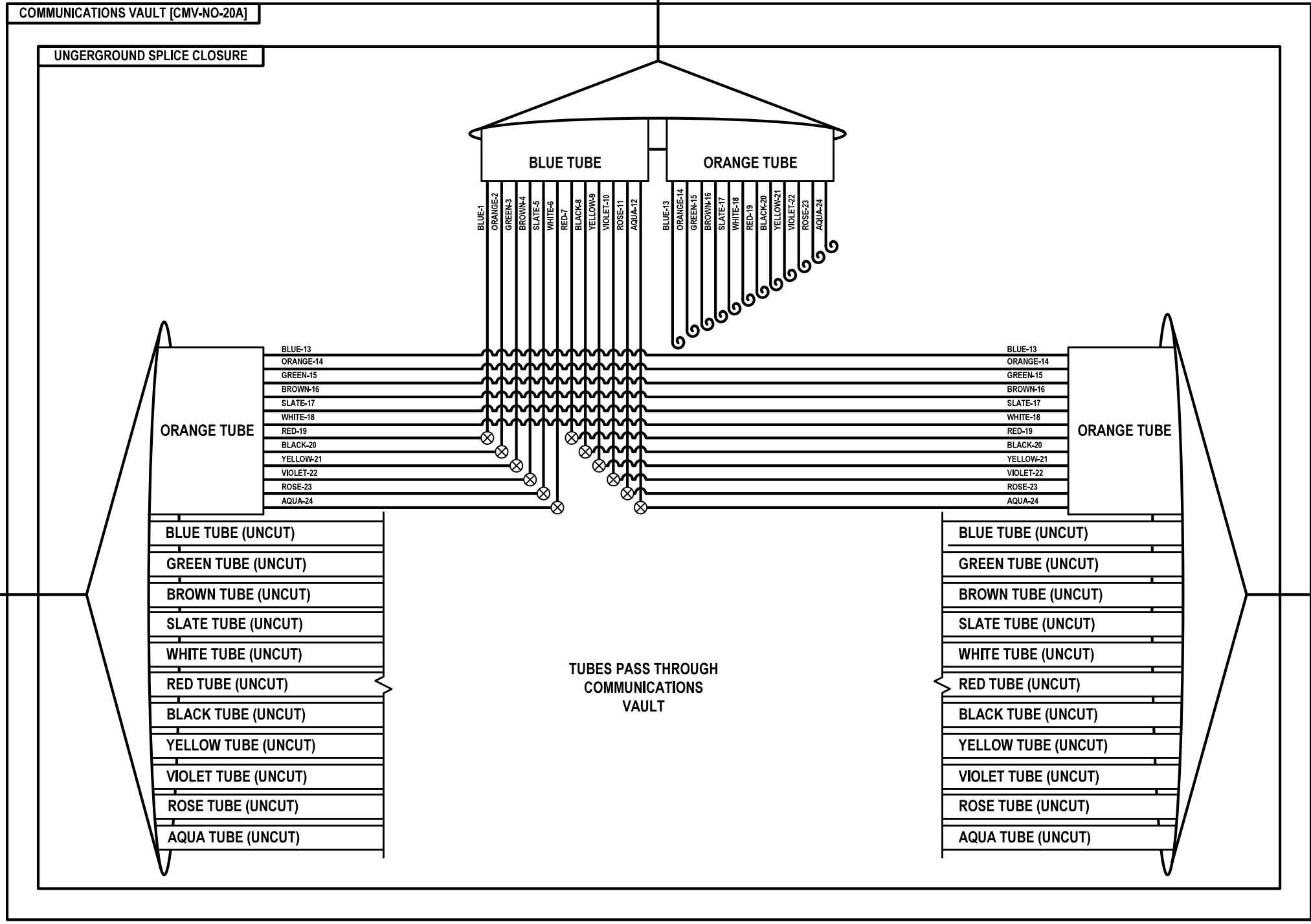


EAST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-020A]

FOC-10

Jacobs	USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-019A]	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALES\$	CHECKED CRH	REVISED -			307	2020-263-SUR, SW&TS	COOK	492	364
	PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -			CONTRACT NO. 62N40				
						SCALE:	SHEET NO. 10 OF 57 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT	

TO CORNELL AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-020]



WEST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-019A]

FOC 144F SM
[DCF-NO-005]

FOC 144F SM
[DCF-NO-005]

EAST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-021A]

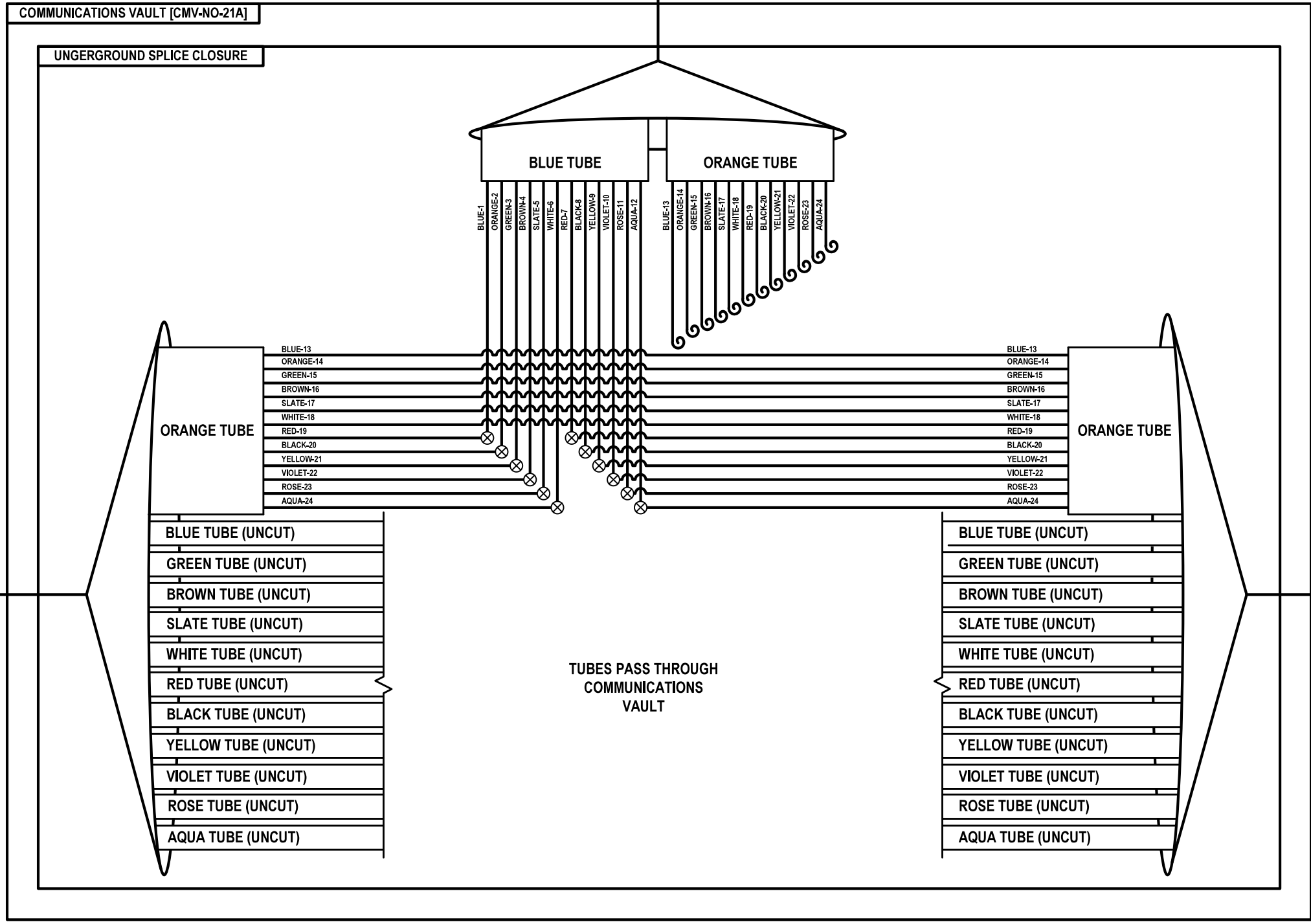
FOC-11

	USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-020A]	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$\$SCALE\$	CHECKED CRH	REVISED -			307	2020-263-SUR,SW&TS	COOK	492	365
	PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -			CONTRACT NO. 62N40				
						ILLINOIS	FED. AID PROJECT			

FILE NAME = \$FILES\$

SCALE: SHEET NO. 11 OF 57 SHEETS STA. TO STA.

TO 19TH AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-021]



WEST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-020A]

FOC 144F SM
[DCF-NO-005]



FOC 144F SM
[DCF-NO-005]



EAST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-021C]

FOC-12

	USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-021A]	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = \$\$SCALE\$	CHECKED CRH	REVISED -			307	2020-263-SUR,SW&TS	COOK	492	366	
	PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -			CONTRACT NO. 62N40					
							ILLINOIS	FED. AID PROJECT			

FILE NAME = \$FILES\$

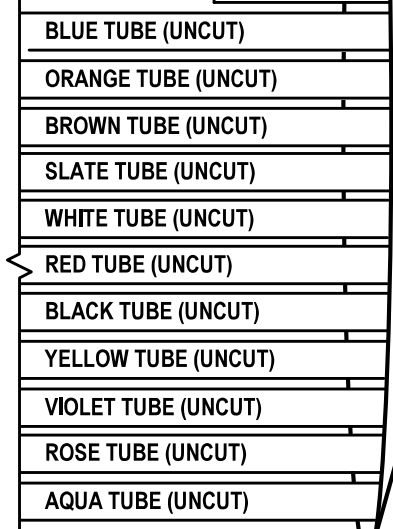
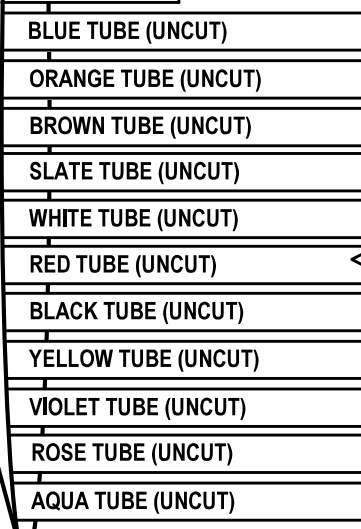
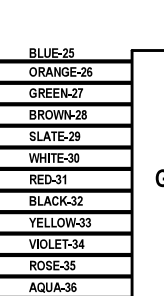
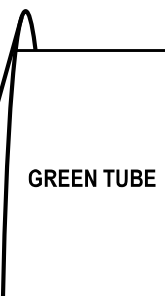
SCALE: SHEET NO. 12 OF 57 SHEETS STA. TO STA.

TO 15TH AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-021A]



COMMUNICATIONS VAULT [CMV-NO-21C]

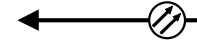
UNGERGROUND SPLICE CLOSURE



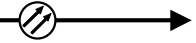
TUBES PASS THROUGH
COMMUNICATIONS
VAULT

WEST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-021A]

FOC 144F SM
[DCF-NO-005]



FOC 144F SM
[DCF-NO-005]



EAST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-021H]

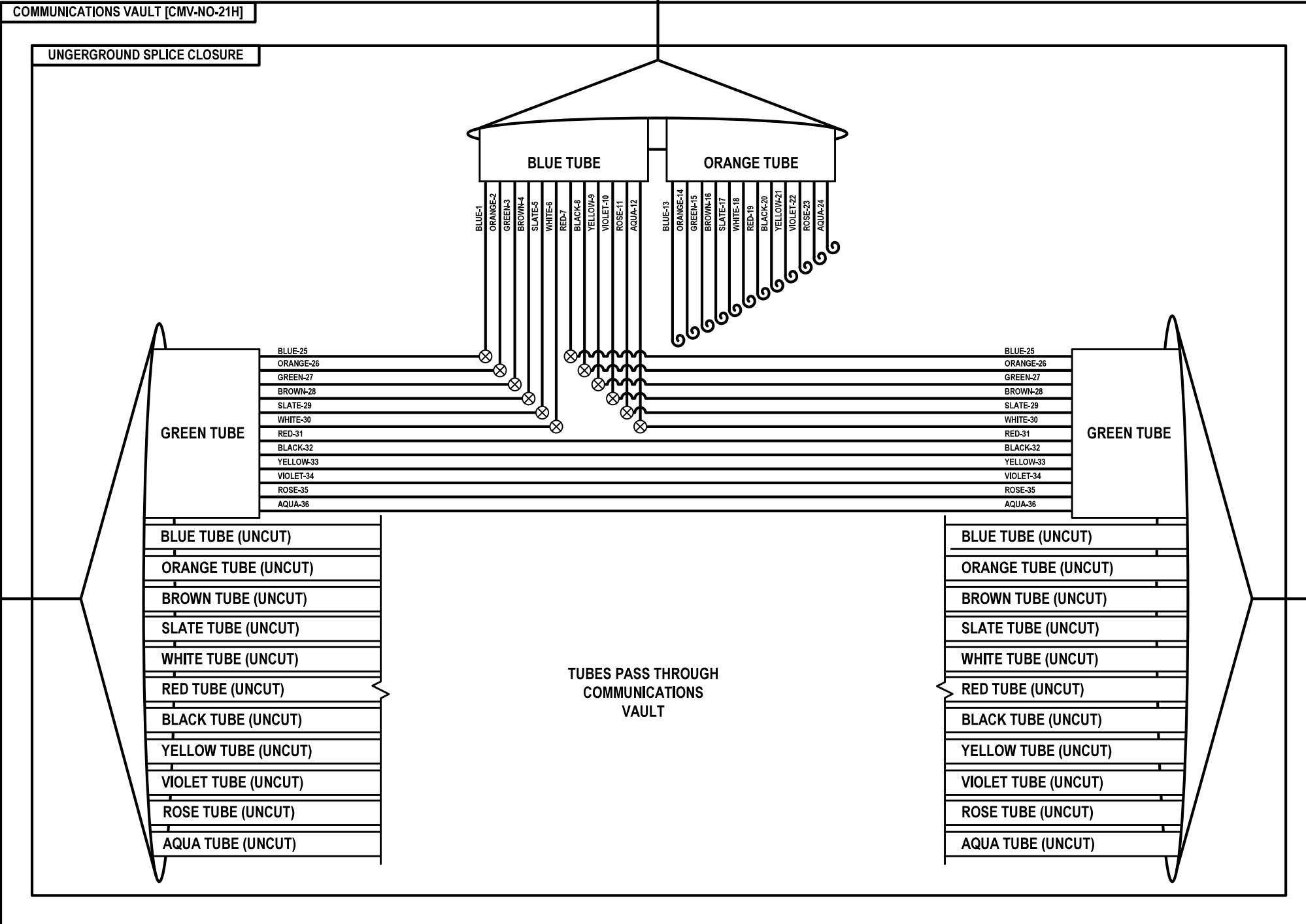
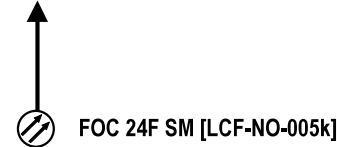
FOC-13

	USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-021C]	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALES\$	CHECKED CRH	REVISED -			307	2020-263-SUR,SW&TS	COOK	492	367
	PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -			CONTRACT NO. 62N40				
						ILLINOIS	FED. AID PROJECT			

FILE NAME = \$FILES\$

SCALE: SHEET NO. 13 OF 57 SHEETS STA. TO STA.

TO 5TH AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-021F]



WEST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-021C]

FOC 144F SM
[DCF-NO-005]



FOC 144F SM
[DCF-NO-005]



EAST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-022E]

FOC-14

Jacobs

USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -
	DRAWN JJZ	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED CRH	REVISED -
PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -

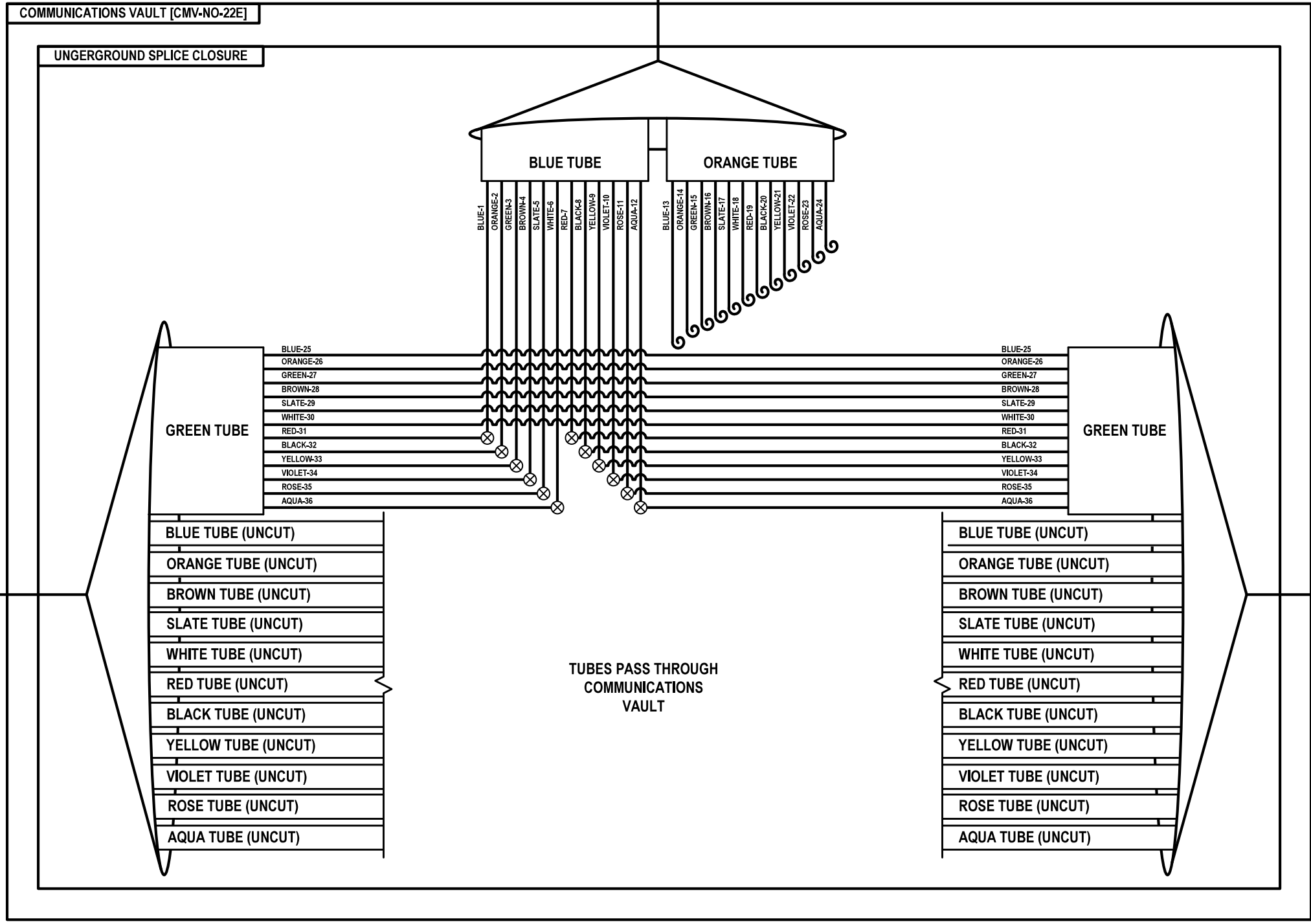
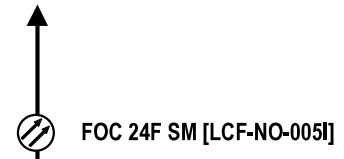
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER SPLICING AND CABINET CONNECTION DETAILS
COMMUNICATIONS VAULT [CMV-NO-021H]

SCALE: SHEET NO. 14 OF 57 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	368
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				

TO IL-171 (1ST AVE)
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-022]



WEST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-021H]

FOC 144F SM
[DCF-NO-005]

FOC 144F SM
[DCF-NO-005]

EAST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-023D]

GREEN TUBE

GREEN TUBE

- BLUE TUBE (UNCUT)
- ORANGE TUBE (UNCUT)
- BROWN TUBE (UNCUT)
- SLATE TUBE (UNCUT)
- WHITE TUBE (UNCUT)
- RED TUBE (UNCUT)
- BLACK TUBE (UNCUT)
- YELLOW TUBE (UNCUT)
- VIOLET TUBE (UNCUT)
- ROSE TUBE (UNCUT)
- AQUA TUBE (UNCUT)

- BLUE TUBE (UNCUT)
- ORANGE TUBE (UNCUT)
- BROWN TUBE (UNCUT)
- SLATE TUBE (UNCUT)
- WHITE TUBE (UNCUT)
- RED TUBE (UNCUT)
- BLACK TUBE (UNCUT)
- YELLOW TUBE (UNCUT)
- VIOLET TUBE (UNCUT)
- ROSE TUBE (UNCUT)
- AQUA TUBE (UNCUT)

- BLUE-25
- ORANGE-26
- GREEN-27
- BROWN-28
- SLATE-29
- WHITE-30
- RED-31
- BLACK-32
- YELLOW-33
- VIOLET-34
- ROSE-35
- AQUA-36

- BLUE-25
- ORANGE-26
- GREEN-27
- BROWN-28
- SLATE-29
- WHITE-30
- RED-31
- BLACK-32
- YELLOW-33
- VIOLET-34
- ROSE-35
- AQUA-36

- BLUE-1
- ORANGE-2
- GREEN-3
- BROWN-4
- SLATE-5
- WHITE-6
- RED-7
- BLACK-8
- YELLOW-9
- VIOLET-10
- ROSE-11
- AQUA-12
- BLUE-13
- ORANGE-14
- GREEN-15
- BROWN-16
- SLATE-17
- WHITE-18
- RED-19
- BLACK-20
- YELLOW-21
- VIOLET-22
- ROSE-23
- AQUA-24

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER SPLICING AND CABINET CONNECTION DETAILS
COMMUNICATIONS VAULT [CMV-NO-022E]

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	369
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				

Jacobs

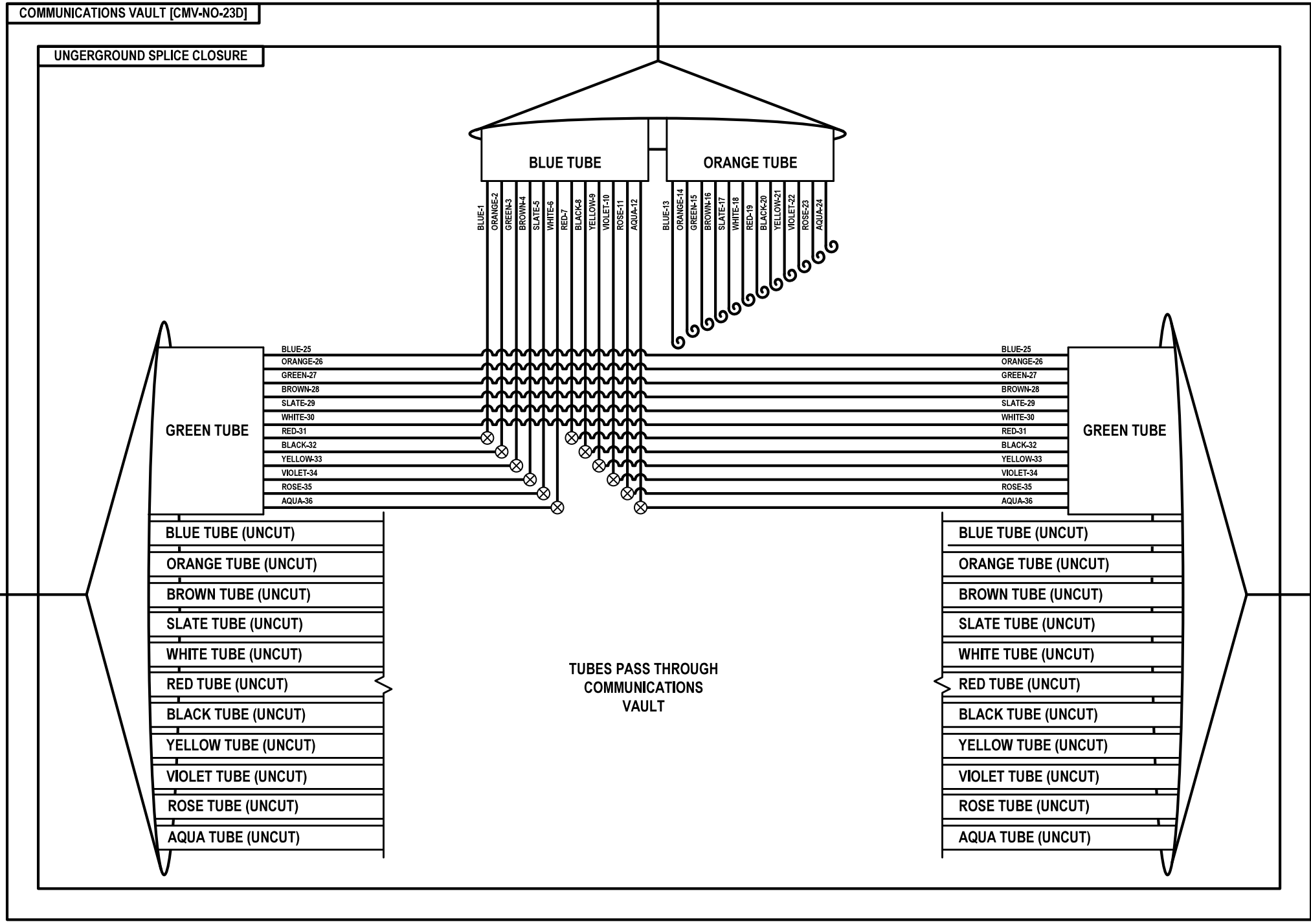
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	DRAWN JJZ	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED CRH	REVISED -
PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -

FILE NAME = \$FILES\$

SCALE: SHEET NO. 15 OF 57 SHEETS STA. TO STA.

FOC-15

TO IL-43 (HARLEM AVE)
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-023A]



WEST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-022E]



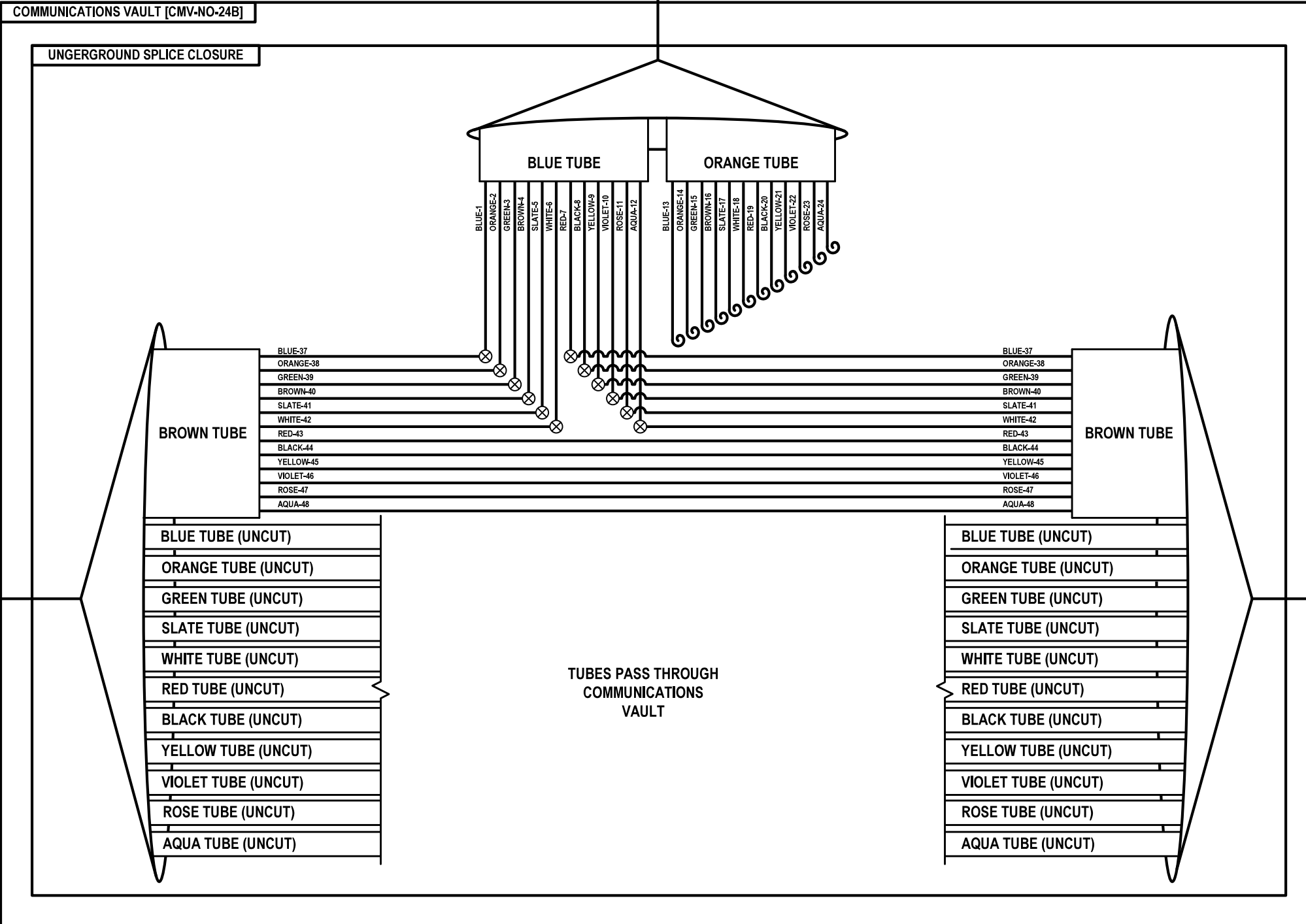
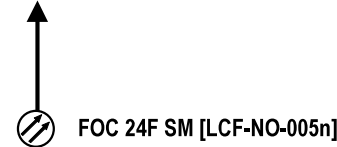
EAST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-024B]



TUBES PASS THROUGH
COMMUNICATIONS
VAULT

	USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-023D]	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = \$SCALES\$	CHECKED CRH	REVISED -			307	2020-263-SUR, SW&TS	COOK	492	370	
	PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -			CONTRACT NO. 62N40					
							ILLINOIS	FED. AID PROJECT			

TO OAK PARK AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-024]



WEST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-023D]

FOC 144F SM
[DCF-NO-005]



FOC 144F SM
[DCF-NO-005]



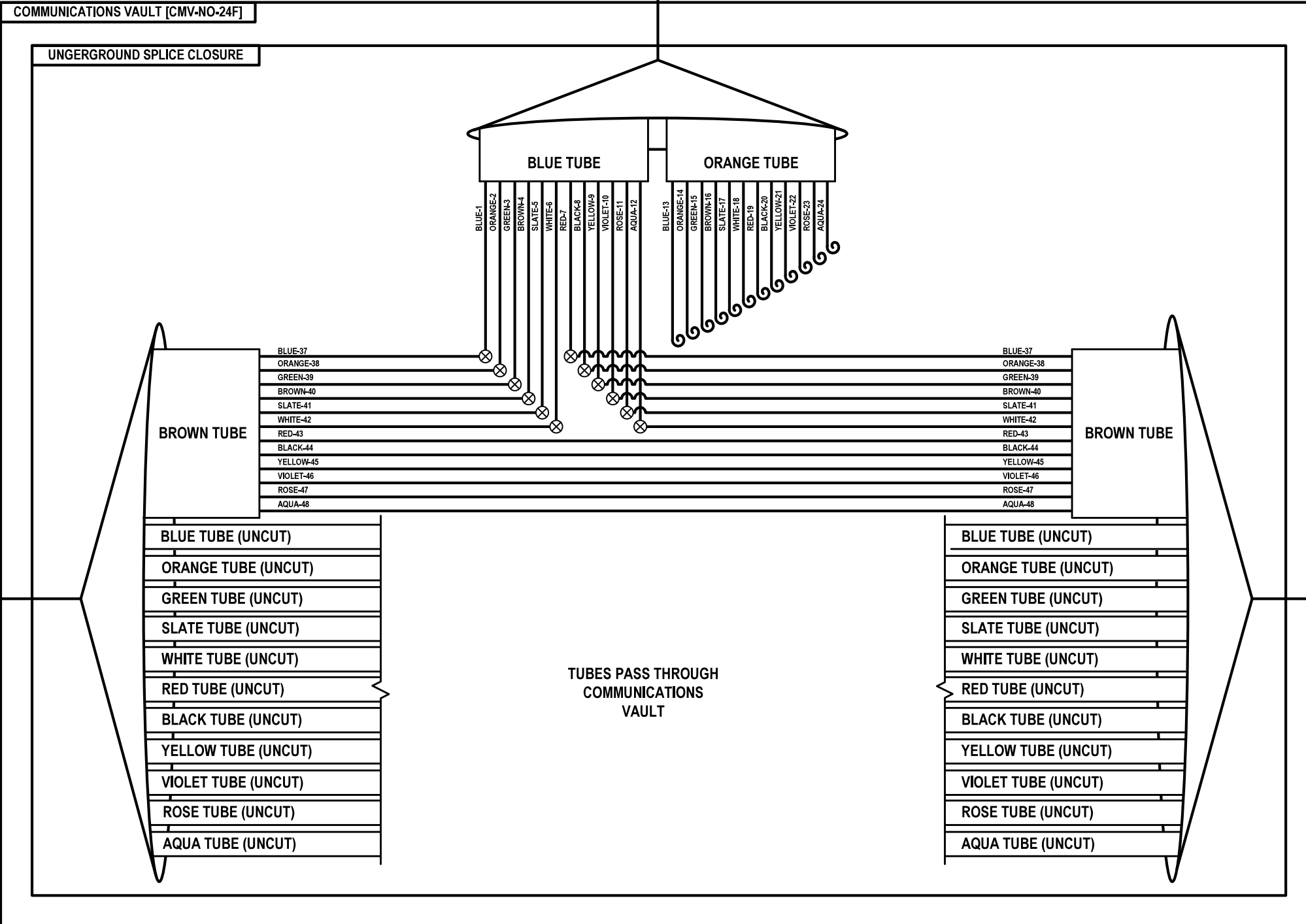
EAST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-024F]

FOC-17

	USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-024B]	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = \$SCALES\$	CHECKED CRH	REVISED -			307	2020-263-SUR,SW&TS	COOK	492	371	
	PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -			CONTRACT NO. 62N40					
						SCALE:	SHEET NO. 17 OF 57 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

FILE NAME = \$FILES\$

TO AUSTIN AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-025]



WEST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-024B]

FOC 144F SM
[DCF-NO-005]

FOC 144F SM
[DCF-NO-005]

EAST TO NODE CABINET
[CAB-NO-024D]

FOC-18

	USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-024F]			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALES\$	CHECKED CRH	REVISED -		307	2020-263-SUR,SW&TS	COOK	492	372			
	PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -		SCALE: SHEET NO. 18 OF 57 SHEETS STA. TO STA.			CONTRACT NO. 62N40				
					ILLINOIS FED. AID PROJECT							

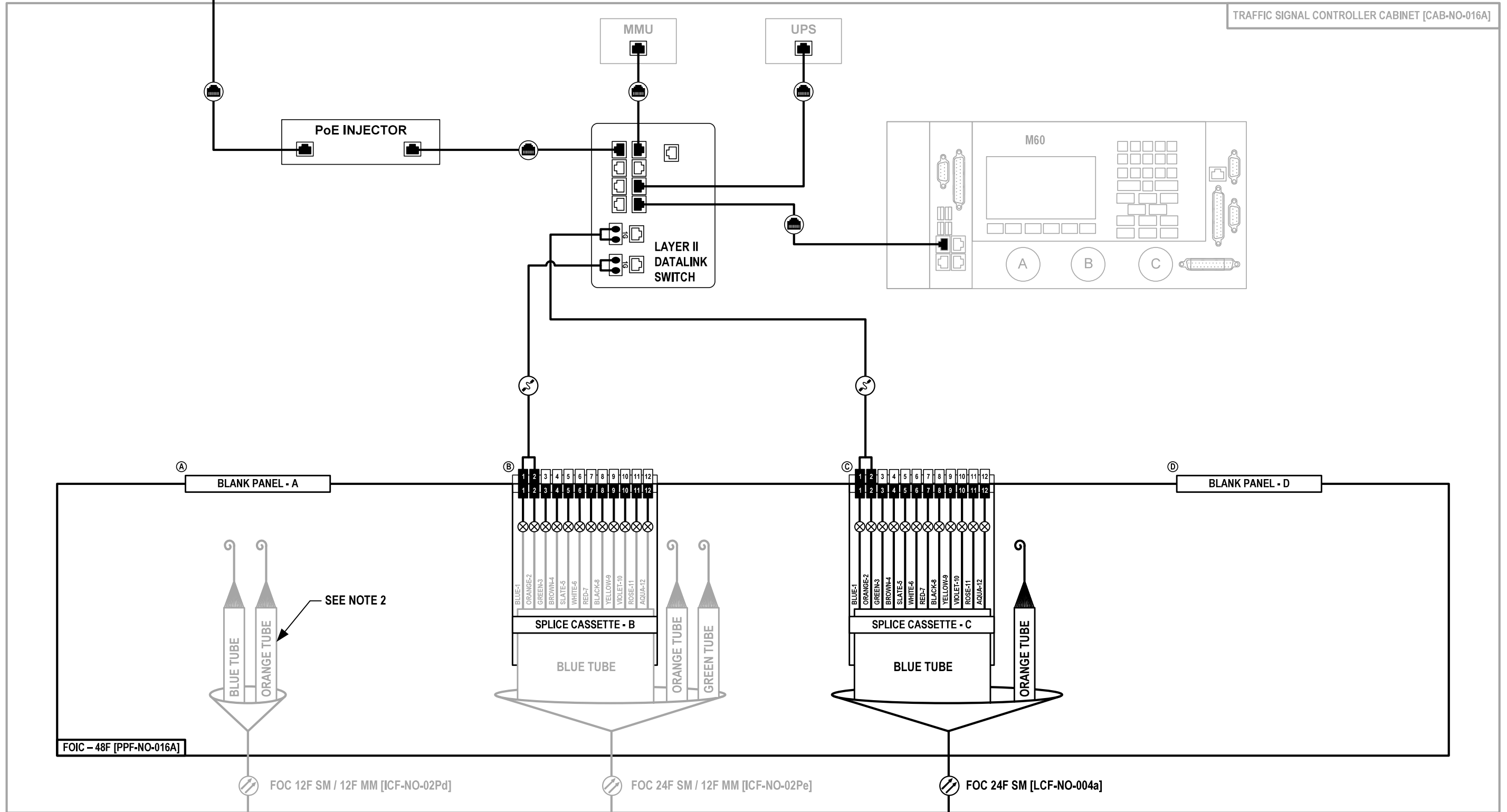
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CCTV PTZ CAMERA [CCTV-NO-016]

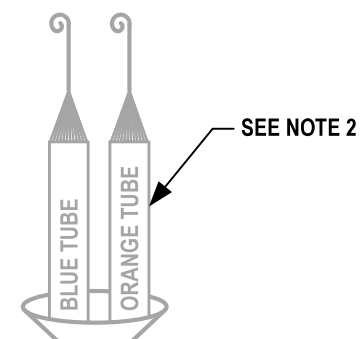
- NOTES:
 1. EXISTING MULTIMODE FIBER OPTIC CABLE TUBES, STRAND COLORS, AND STRAND NUMBERS MAY VARY FROM THOSE SHOWN.
 2. EXISTING CABLE TO BE REPLACED BY CONTRACT 62N33.

IL-64 AT YORK STREET

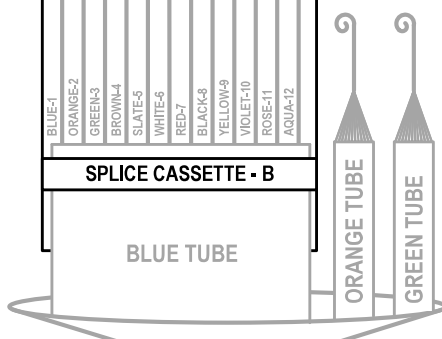
TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-016A]



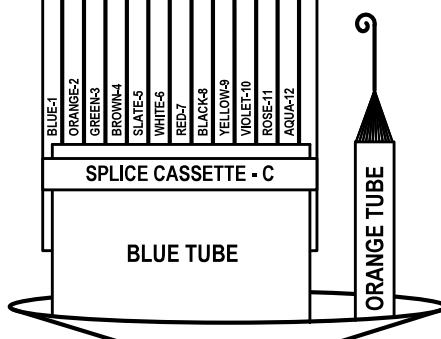
FOIC - 48F [PPF-NO-016A]



FOC 12F SM / 12F MM [ICF-NO-02Pd]



FOC 24F SM / 12F MM [ICF-NO-02Pe]



FOC 24F SM [LCF-NO-004a]

TO MYRTLE AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-016]

TO EMROY AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-017]

TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-016A]

FOC-19

Jacobs

USER NAME = \$USERS	DESIGNED JJZ	REVISED -
	DRAWN JJZ	REVISED -
PLOT SCALE = \$SCALES	CHECKED CRH	REVISED -
PLOT DATE = \$DATES	DATE 03/22/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER SPLICING AND CABINET CONNECTION DETAILS
TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-016A]

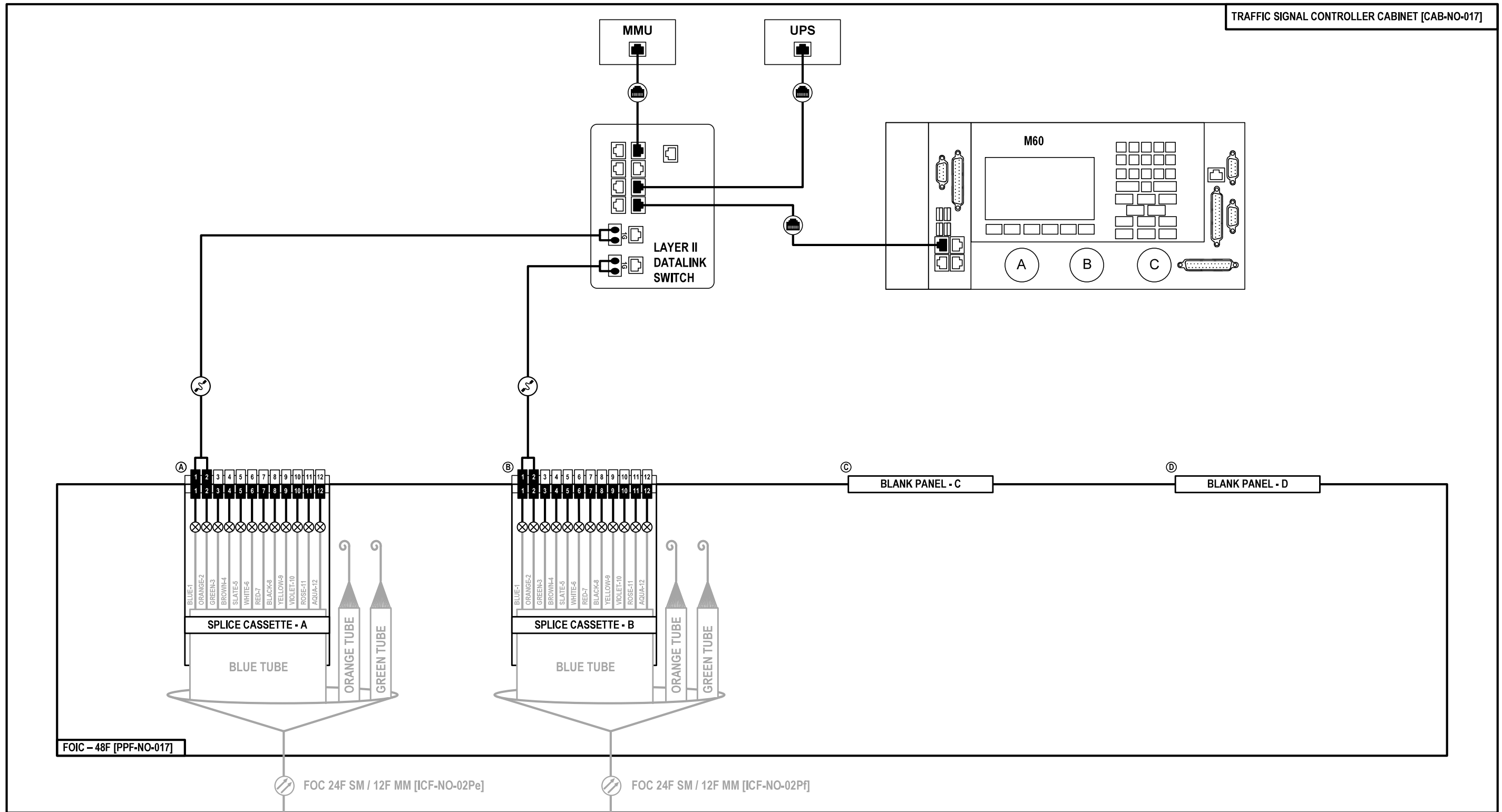
SCALE: SHEET NO. 19 OF 57 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	373
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				

NOTES:
 1. EXISTING MULTIMODE FIBER OPTIC CABLE TUBES, STRAND COLORS, AND STRAND NUMBERS MAY VARY FROM THOSE SHOWN.

IL-64 AT EMROY AVENUE

TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-017]



TO YORK ST
 TRAFFIC SIGNAL CONTROLLER CABINET
 [CAB-NO-016A]

TO BERTEAU ST
 TRAFFIC SIGNAL CONTROLLER CABINET
 [CAB-NO-017A]

FOC-20

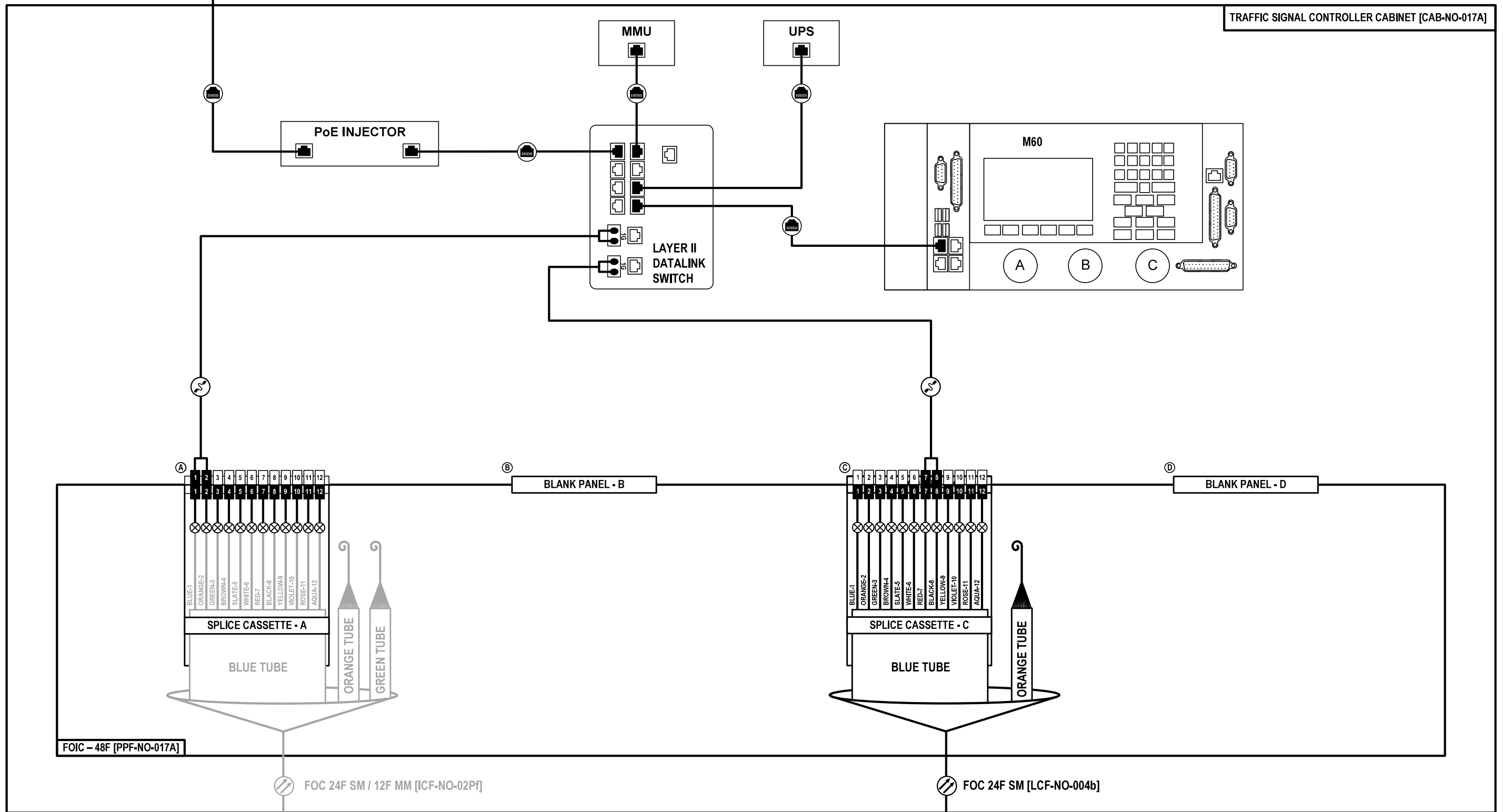
Jacobs USER NAME = \$USERS\$ PLOT SCALE = \$\$SCALE\$ PLOT DATE = \$DATES\$	DESIGNED JJZ DRAWN JJZ	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING AND CABINET CONNECTION DETAILS TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-017]	F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 374
	CHECKED CRH DATE 03/22/2024	REVISED - REVISED -			CONTRACT NO. 62N40				
					SCALE:	SHEET NO. 20 OF 57 SHEETS	STA. TO STA.		
					ILLINOIS FED. AID PROJECT				

CCTV PTZ CAMERA [CCTV-NO-017]

NOTES:
1. EXISTING MULTIMODE FIBER OPTIC CABLE TUBES, STRAND COLORS, AND STRAND NUMBERS MAY VARY FROM THOSE SHOWN.

IL-64 AT BERTEAU AVENUE

TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-017A]



FOIC - 48F [PPF-NO-017A]

TO EMROY AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-017]

TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-017D]

FOC-21

Jacobs

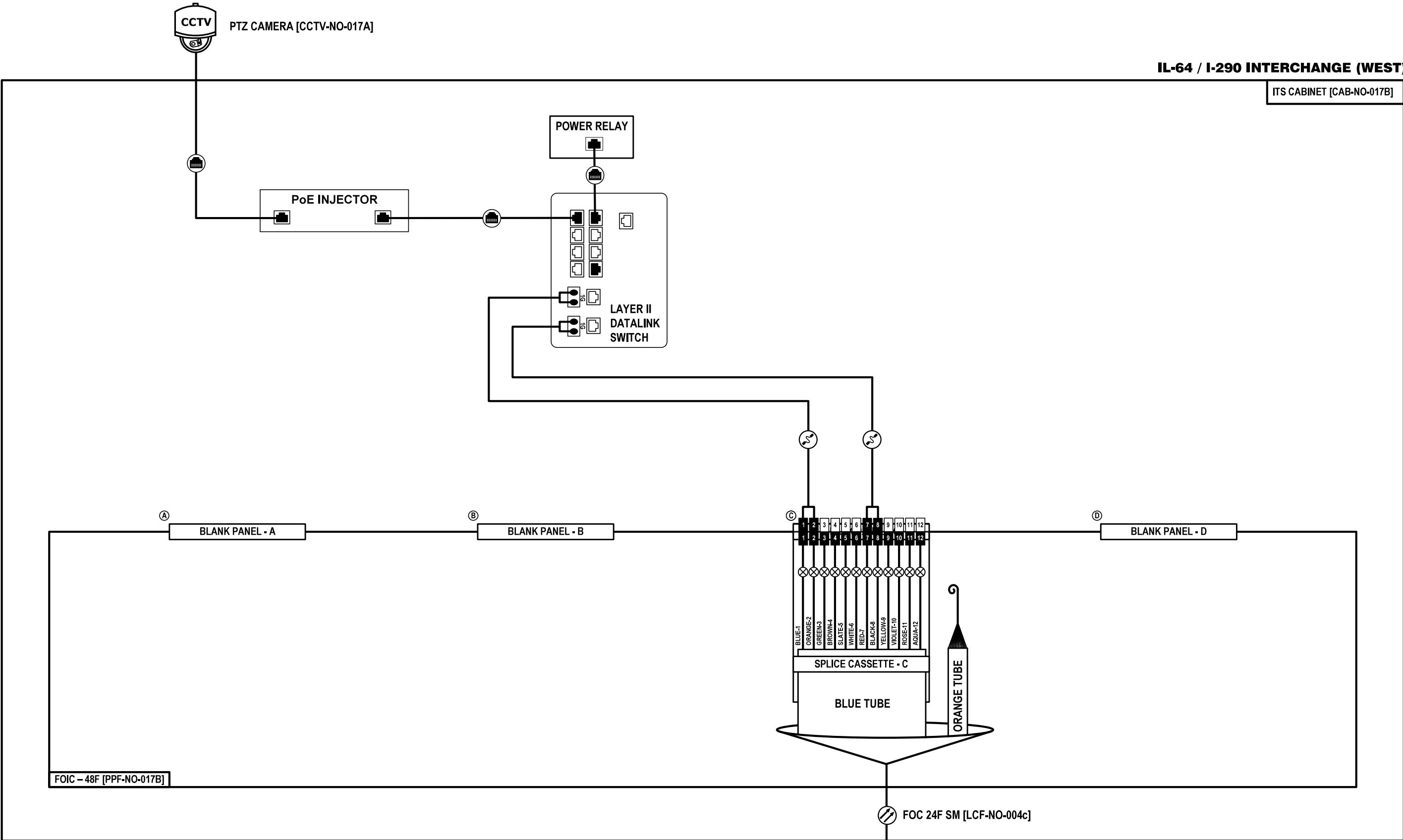
USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -
	DRAWN JJZ	REVISED -
PLOT SCALE = \$SCALES\$	CHECKED CRH	REVISED -
PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER SPLICING AND CABINET CONNECTION DETAILS
TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-017A]

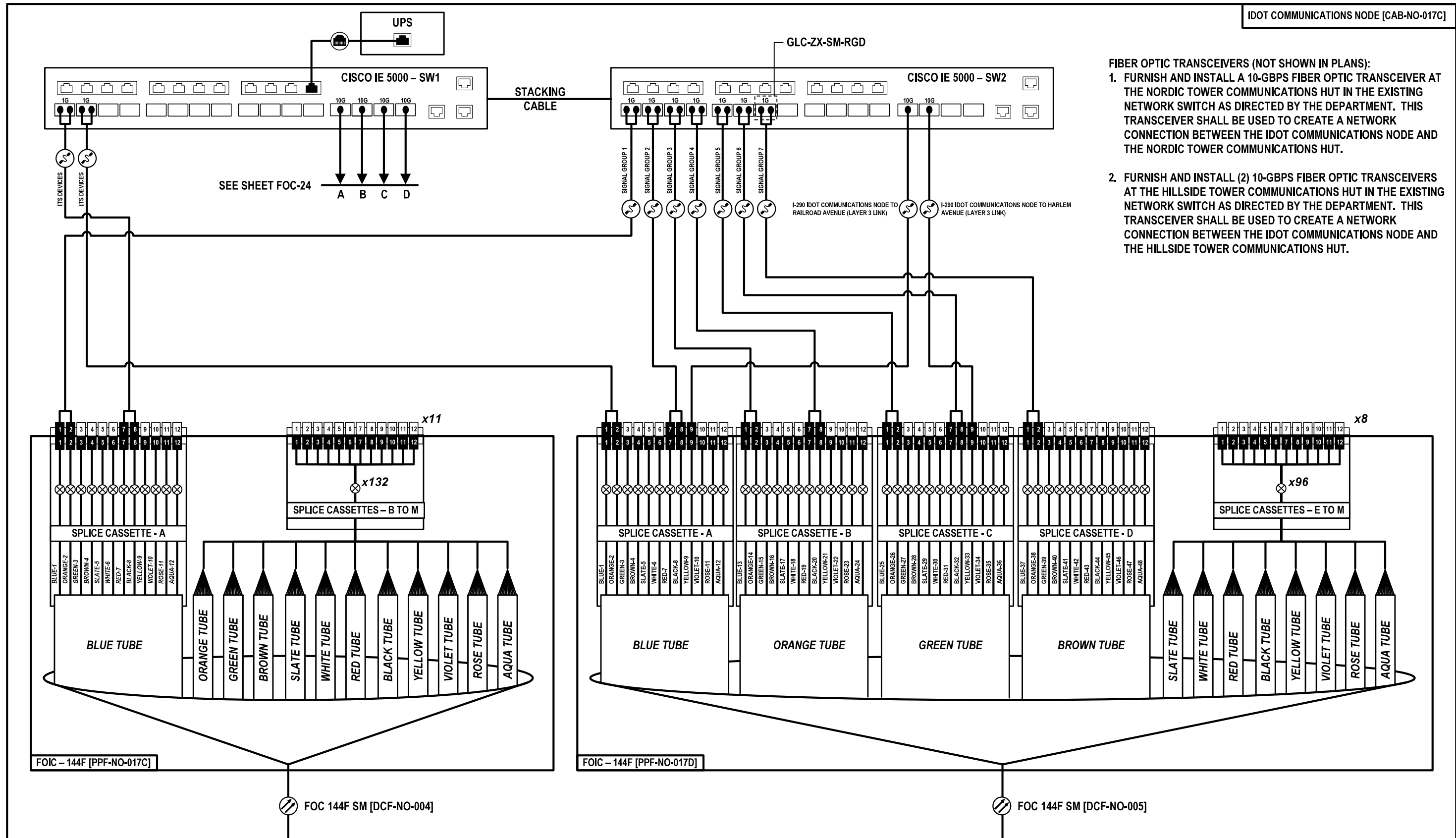
SCALE: SHEET NO. 21 OF 57 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	375
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				



TO SPlice CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-017F]

	USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING AND CABINET CONNECTION DETAILS ITS CABINET [CAB-NO-017B]			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALES\$	DRAWN JJZ	REVISED -		307	2020-263-SUR,SW&TS	COOK	492	376			
	PLOT DATE = \$DATES\$	CHECKED CRH	REVISED -		CONTRACT NO. 62N40							
	PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -		ILLINOIS FED. AID PROJECT							



- FIBER OPTIC TRANSCEIVERS (NOT SHOWN IN PLANS):
1. FURNISH AND INSTALL A 10-Gbps FIBER OPTIC TRANSCEIVER AT THE NORDIC TOWER COMMUNICATIONS HUT IN THE EXISTING NETWORK SWITCH AS DIRECTED BY THE DEPARTMENT. THIS TRANSCEIVER SHALL BE USED TO CREATE A NETWORK CONNECTION BETWEEN THE IDOT COMMUNICATIONS NODE AND THE NORDIC TOWER COMMUNICATIONS HUT.
 2. FURNISH AND INSTALL (2) 10-Gbps FIBER OPTIC TRANSCEIVERS AT THE HILLSIDE TOWER COMMUNICATIONS HUT IN THE EXISTING NETWORK SWITCH AS DIRECTED BY THE DEPARTMENT. THIS TRANSCEIVER SHALL BE USED TO CREATE A NETWORK CONNECTION BETWEEN THE IDOT COMMUNICATIONS NODE AND THE HILLSIDE TOWER COMMUNICATIONS HUT.

WEST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-017D]

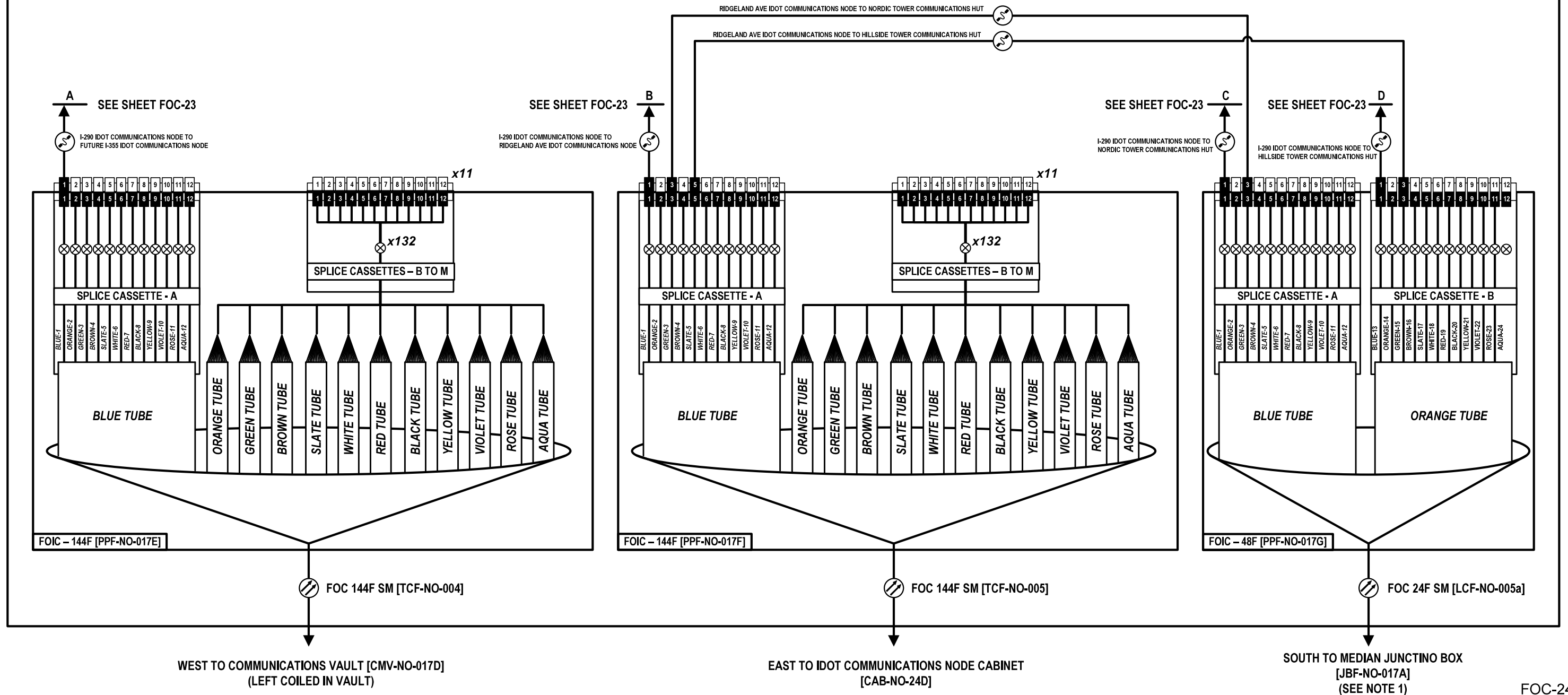
EAST TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-017H]

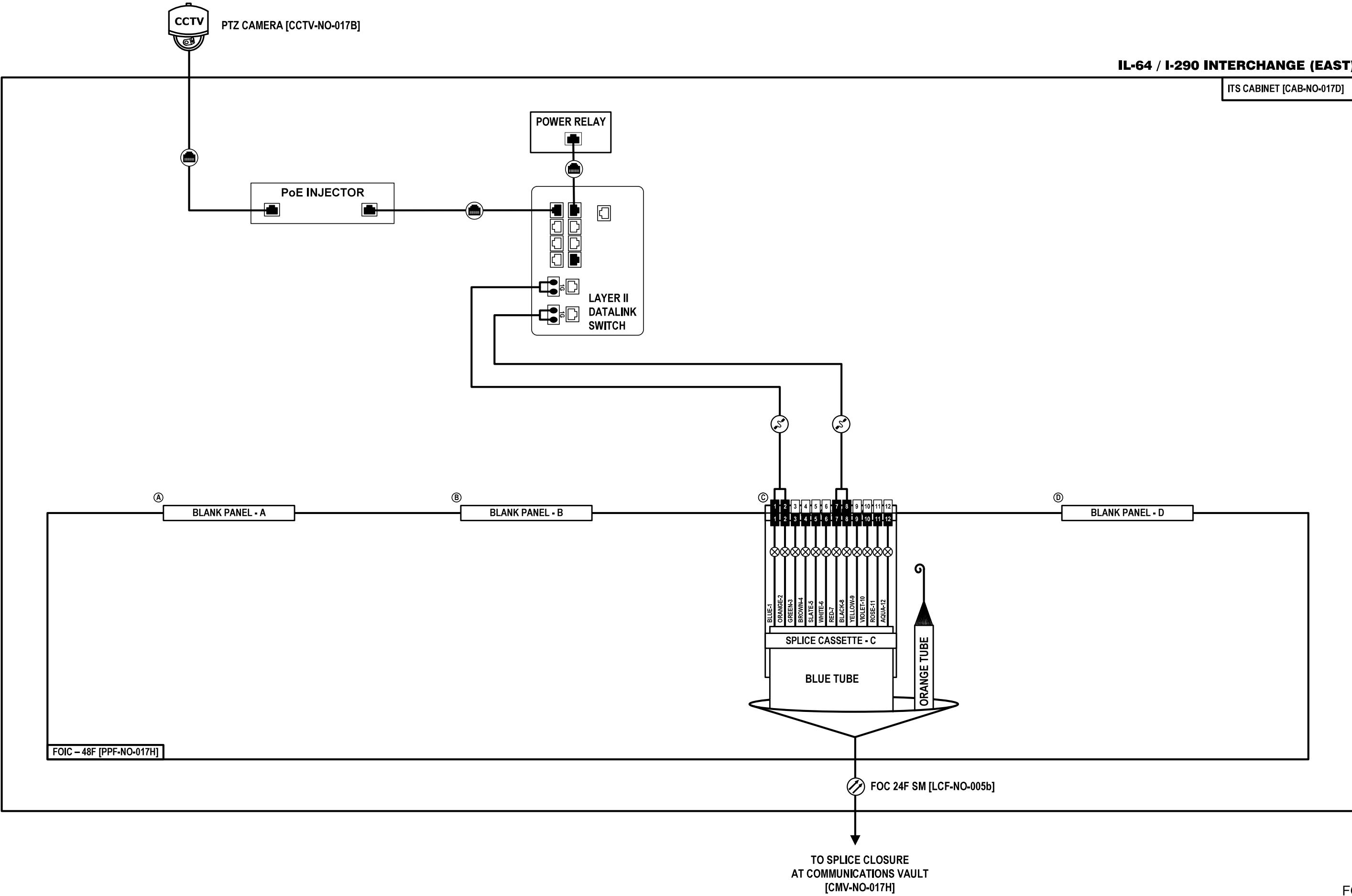
FOC-23

	USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING AND CABINET CONNECTION DETAILS IDOT COMM NODE CABINET [CAB-NO-017C] (SHEET 1 OF 2)	F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 377			
	PLOT SCALE = \$SCALES\$	CHECKED CRH	REVISED -			SCALE:	SHEET NO. 23 OF 57 SHEETS	STA. TO STA.	CONTRACT NO. 62N40				
	PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -			ILLINOIS FED. AID PROJECT							

SPLICING NOTES AT JBF-NO-017A (NOT SHOWN IN PLANS):

1. FIBER OPTIC LATERAL CABLE LCF-NO-005a SHALL BE SPLICED TO EXISTING TRUNK CABLE STRANDS AT JUNCTION BOX [JBF-NO-017A] AS DIRECTED BY THE DEPARTMENT.
2. STRAND 1 SHALL BE SPLICED TO CREATE A NETWORK CONNECTION BETWEEN THE I-290 COMMUNICATIONS NODE AND THE NORDIC TOWER COMMUNICATIONS HUT.
3. STRANDS 3 SHALL BE SPLICED TO CREATE A NETWORK CONNECTION BETWEEN THE RIDGELAND AVE COMMUNICATIONS NODE AND THE NORDIC TOWER COMMUNICATIONS HUT.
4. STRANDS 13 SHALL BE SPLICED TO CREATE A NETWORK CONNECTION BETWEEN THE I-290 COMMUNICATIONS NODE AND THE HILLSIDE TOWER COMMUNICATIONS HUT.
5. STRANDS 15 SHALL BE SPLICED TO CREATE A NETWORK CONNECTION BETWEEN THE RIDGELAND AVE COMMUNICATIONS NODE AND THE HILLSIDE TOWER COMMUNICATIONS HUT.





FOIC - 48F [PPF-NO-017H]

FOC 24F SM [LCF-NO-005b]

TO SPlice CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-017H]

FOC-25

	USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING AND CABINET CONNECTION DETAILS ITS CABINET [CAB-NO-017D]			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALES\$	DRAWN JJZ	REVISED -		307	2020-263-SUR,SW&TS	COOK	492	379			
	PLOT DATE = \$DATES\$	CHECKED CRH	REVISED -		CONTRACT NO. 62N40							
	DATE 03/22/2024	REVISED -	ILLINOIS FED. AID PROJECT									

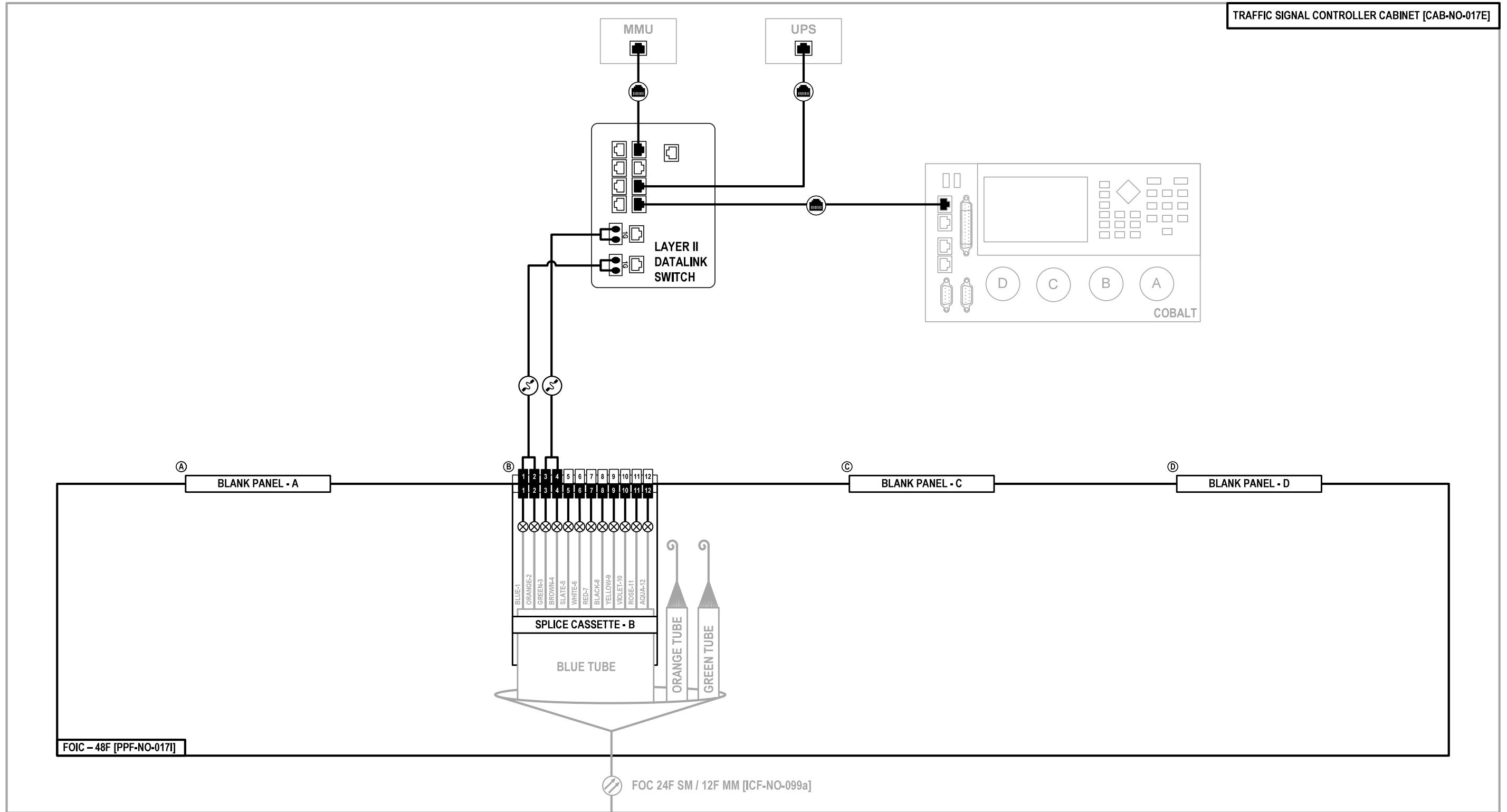
SCALE: SHEET NO. 25 OF 57 SHEETS STA. TO STA.

NOTES:

1. EXISTING HYBRID FIBER OPTIC CABLE TUBES, STRAND COLORS, AND STRAND NUMBERING MAY VARY FROM THOSE SHOWN. CONTRACTOR SHALL USE THE FIRST FOUR (4) SINGLE MODE STRANDS FOR ESTABLISHING COMMUNICATIONS.

FRONTAGE ROAD AT COUNTY LINE ROAD

TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-017E]



FOIC - 48F [PPF-NO-017I]

FOC 24F SM / 12F MM [ICF-NO-099a]

TO COUNTY LINE RD AT NORWEST AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-017F]

FOC-26

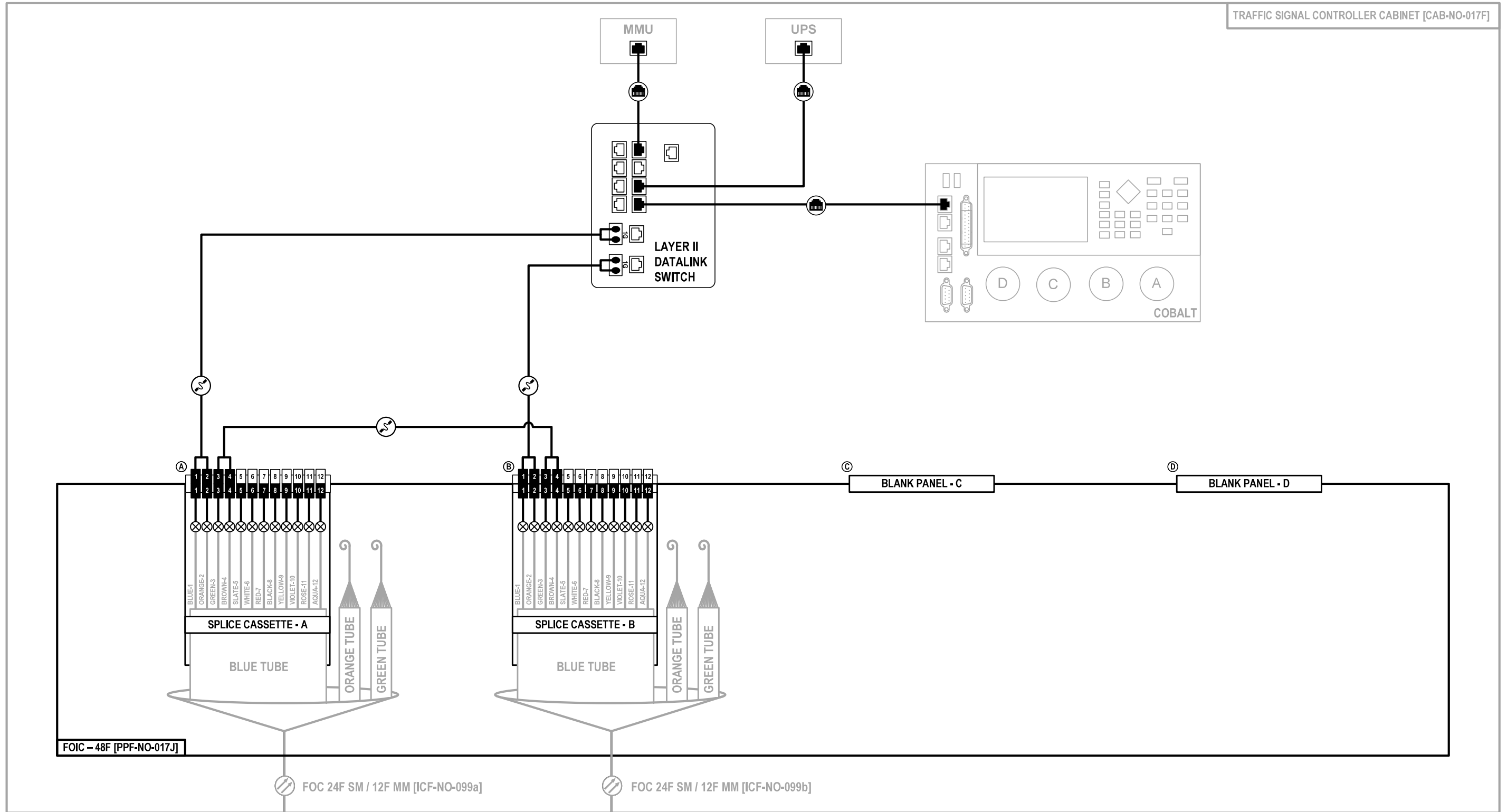
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	PLOT SCALE = \$SCALES\$	CHECKED CRH	REVISED -			CONTRACT NO. 62N40					
	PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET NO. 26 OF 57 SHEETS	STA. TO STA.			

NOTES:

- EXISTING HYBRID FIBER OPTIC CABLE TUBES, STRAND COLORS, AND STRAND NUMBERING MAY VARY FROM THOSE SHOWN. CONTRACTOR SHALL USE THE FIRST FOUR (4) SINGLE MODE STRANDS FOR ESTABLISHING COMMUNICATIONS.

COUNTY LINE ROAD AT NORTHWEST AVENUE

TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-017F]



TO FRONTAGE RD AT COUNTY LINE RD
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-017E]

TO IL-64 AT NORTHWEST AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-017G]

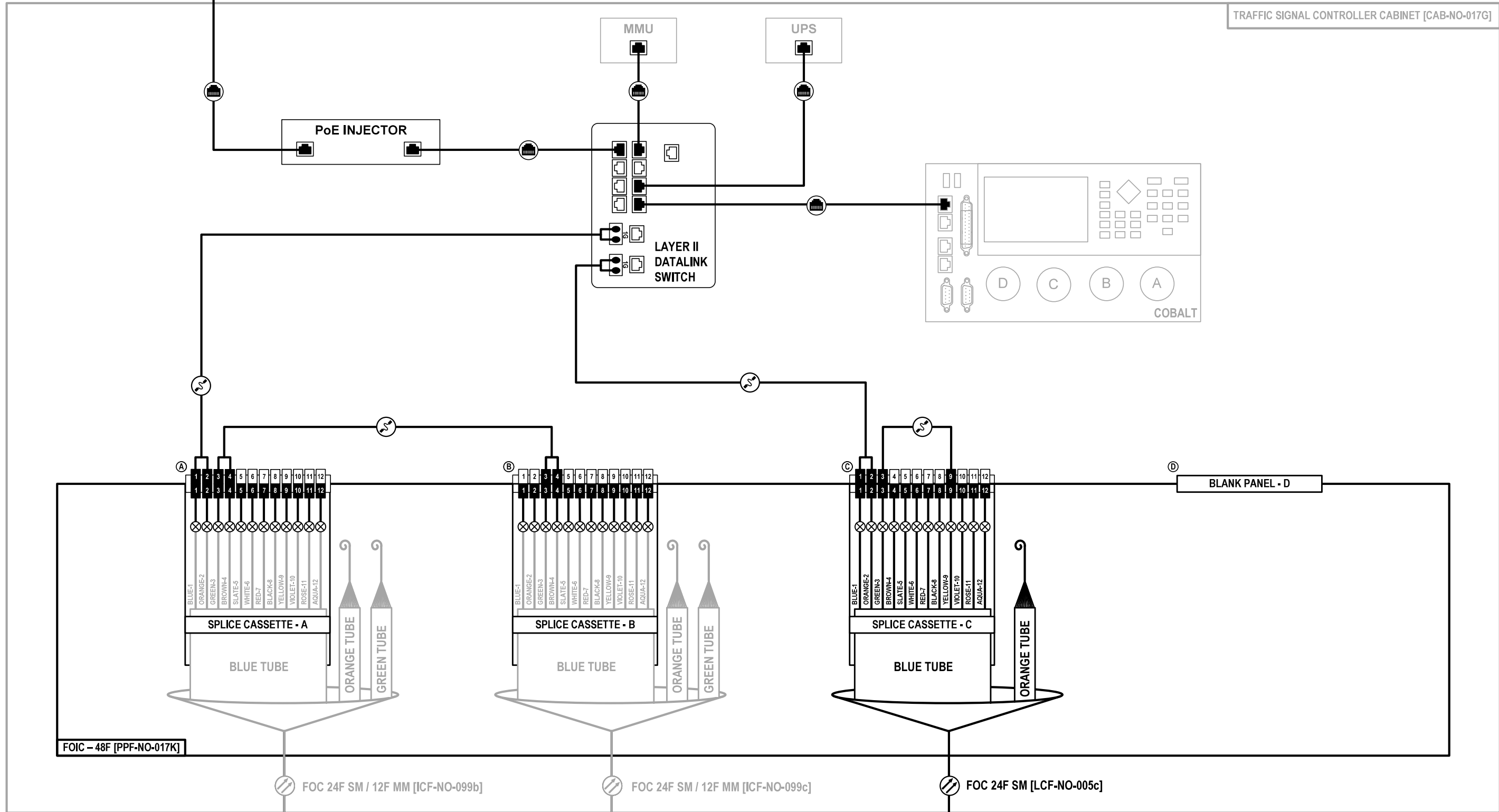
FOC-27

	USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING AND CABINET CONNECTION DETAILS TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-017F]	F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 381	
	PLOT SCALE = \$SCALES\$	CHECKED CRH	REVISED -			CONTRACT NO. 62N40					
	PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET NO. 27 OF 57 SHEETS	STA. TO STA.			

CCTV
PTZ CAMERA [CCTV-NO-017C]

NOTES:
1. EXISTING HYBRID FIBER OPTIC CABLE TUBES, STRAND COLORS, AND STRAND NUMBERING MAY VARY FROM THOSE SHOWN. CONTRACTOR SHALL USE THE FIRST FOUR (4) SINGLE MODE STRANDS FOR ESTABLISHING COMMUNICATIONS.

IL-64 AT NORTHWEST AVENUE
TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-017G]



FOIC - 48F [PPF-NO-017K]

TO COUNTY LINE RD AT NORTHWEST AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-017F]

TO IL-64 AT RAILROAD AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-018]

TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-017L]

BLANK PANEL - D

FOC 24F SM / 12F MM [ICF-NO-099b]

FOC 24F SM / 12F MM [ICF-NO-099c]

FOC 24F SM [LCF-NO-005c]

FOC-28

Jacobs

USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -
	DRAWN JJZ	REVISED -
PLOT SCALE = \$SCALES\$	CHECKED CRH	REVISED -
PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER SPLICING AND CABINET CONNECTION DETAILS
TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-017G]

SCALE: SHEET NO. 28 OF 57 SHEETS STA. TO STA.

F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 382
CONTRACT NO. 62N40			ILLINOIS FED. AID PROJECT	

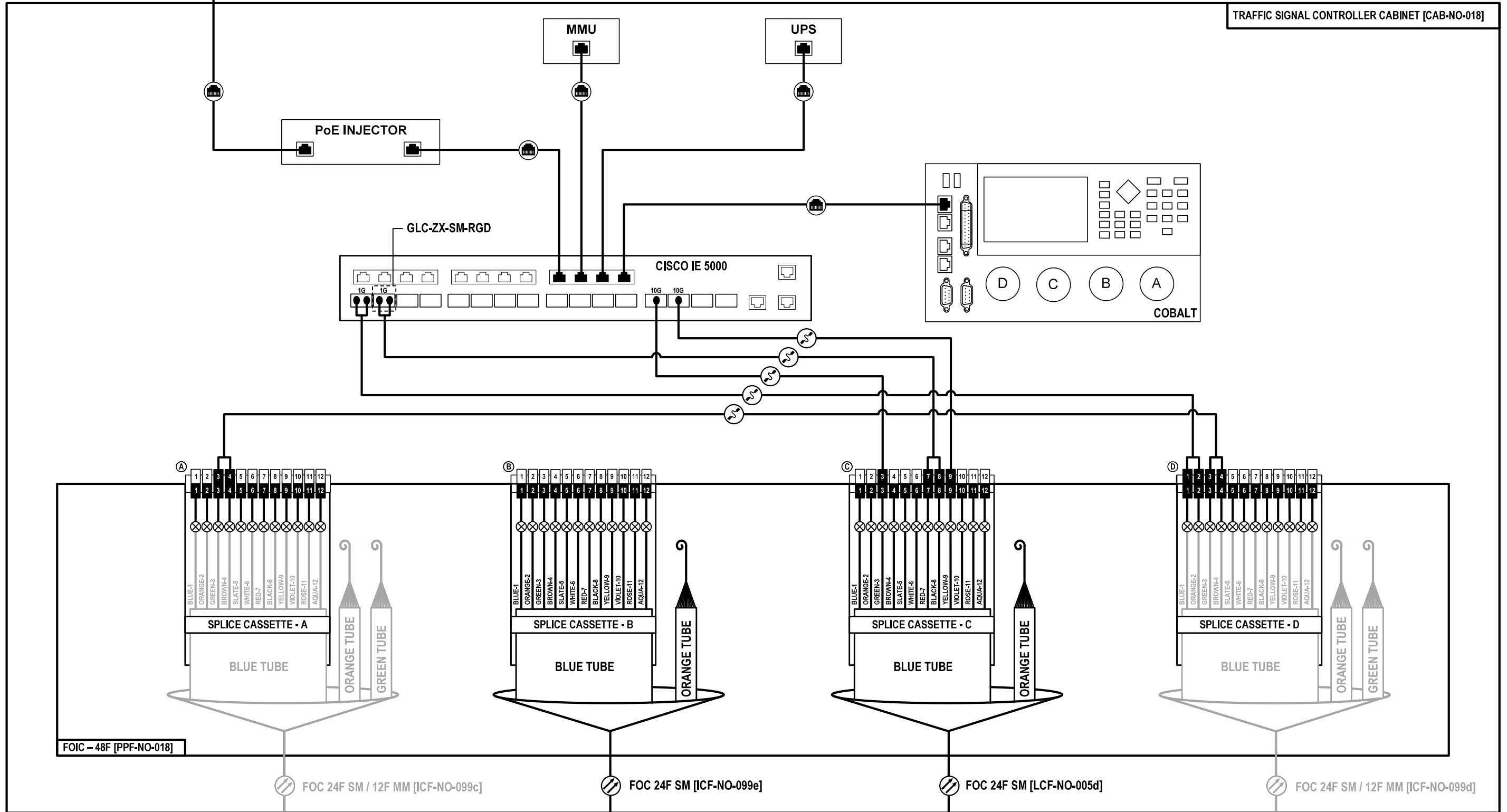
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CCTV
PTZ CAMERA [CCTV-NO-018]

NOTES:
1. EXISTING HYBRID FIBER OPTIC CABLE TUBES, STRAND COLORS, AND STRAND NUMBERING MAY VARY FROM THOSE SHOWN. CONTRACTOR SHALL USE THE FIRST FOUR (4) SINGLE MODE STRANDS FOR ESTABLISHING COMMUNICATIONS.

IL-64 AT RAILROAD AVE

TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-018]



TO IL-64 AT NORTHWEST AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-017G]

TO IL-64 AT HILLSIDE AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-018B]

TO SPlice CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-018B]

TO RAILROAD AVE AT LAKE ST
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-018A]

FOC-29

Jacobs

USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -
	DRAWN JJZ	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED CRH	REVISED -
PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER SPLICING AND CABINET CONNECTION DETAILS
TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-018]

SCALE: SHEET NO. 29 OF 57 SHEETS STA. TO STA.

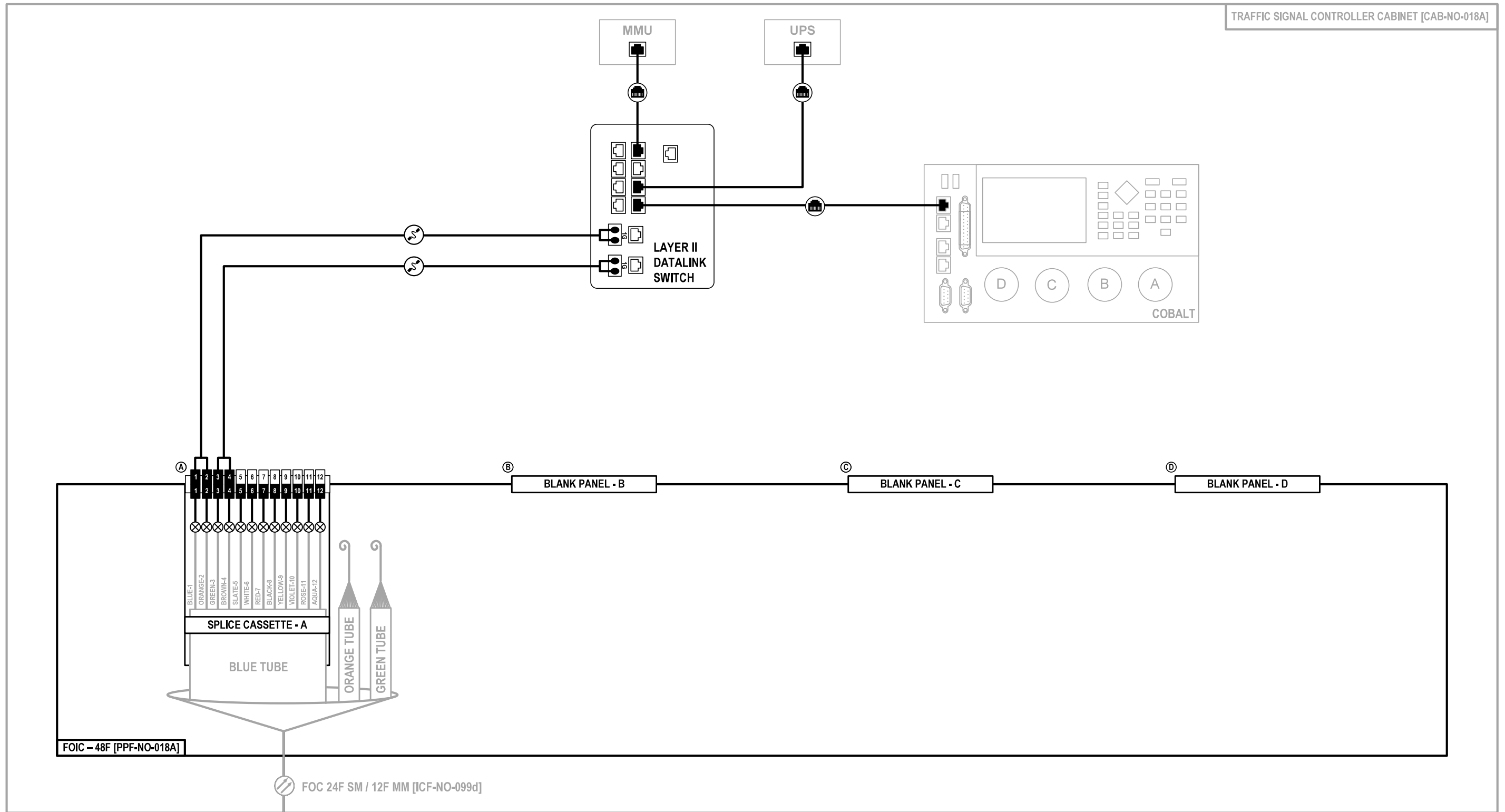
F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 383
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				

NOTES:

- EXISTING HYBRID FIBER OPTIC CABLE TUBES, STRAND COLORS, AND STRAND NUMBERING MAY VARY FROM THOSE SHOWN. CONTRACTOR SHALL USE THE FIRST FOUR (4) SINGLE MODE STRANDS FOR ESTABLISHING COMMUNICATIONS.

RAILROAD AVENUE AT LAKE STREET

TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-018A]



Jacobs

USER NAME = \$USERS	DESIGNED JJZ	REVISED -
	DRAWN JJZ	REVISED -
PLOT SCALE = \$SCALES	CHECKED CRH	REVISED -
PLOT DATE = \$DATES	DATE 03/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS
TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-018A]**

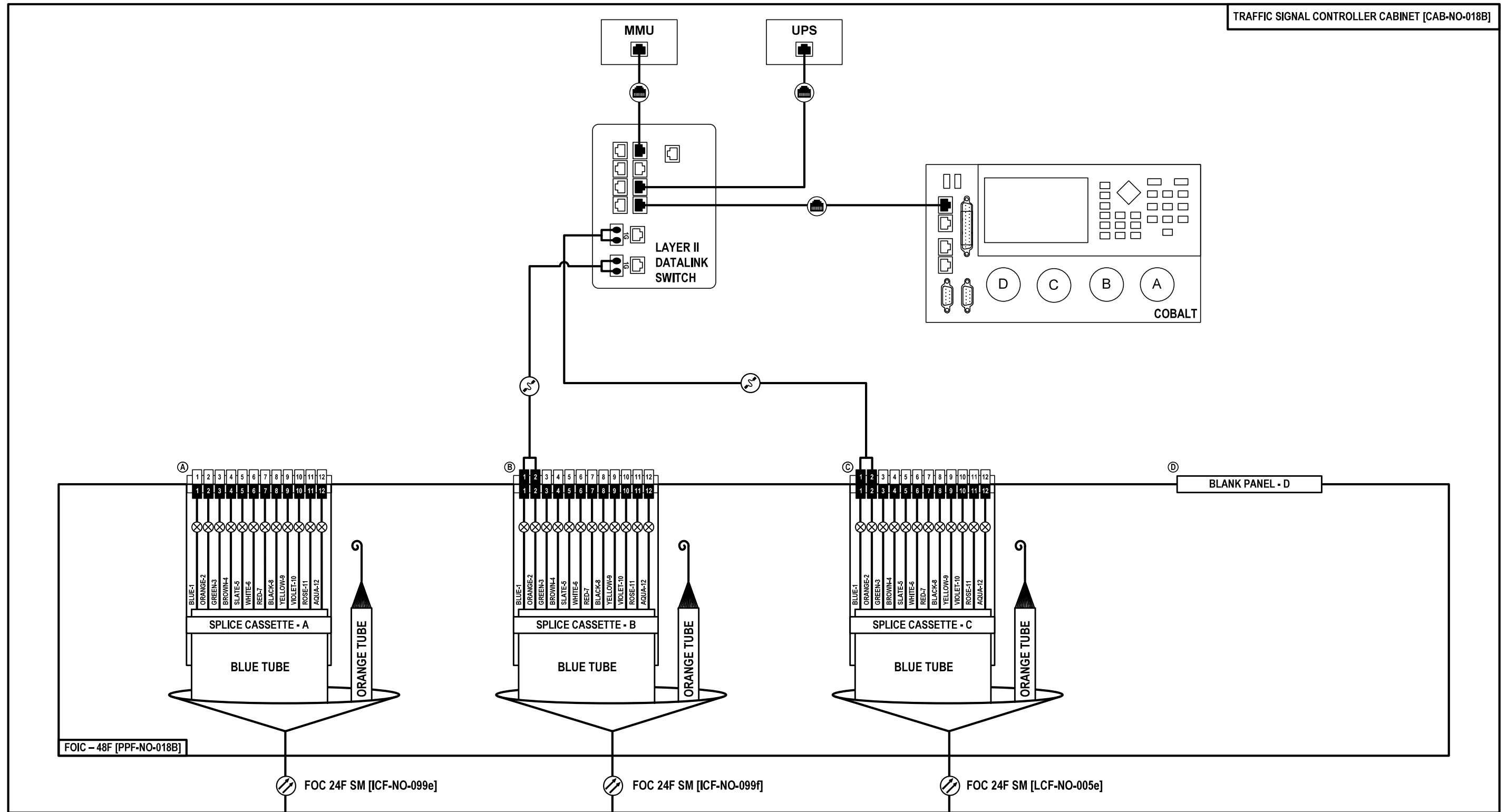
SCALE: SHEET NO. 30 OF 57 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	384
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N40	

FOC-30

IL-64 AT HILLSIDE AVENUE

TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-018B]



TO IL-64 AT RAILROAD AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-018]

TO IL-64 AT WOLF RD
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-018C]

TO SPlice CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-018D]

FOC-31

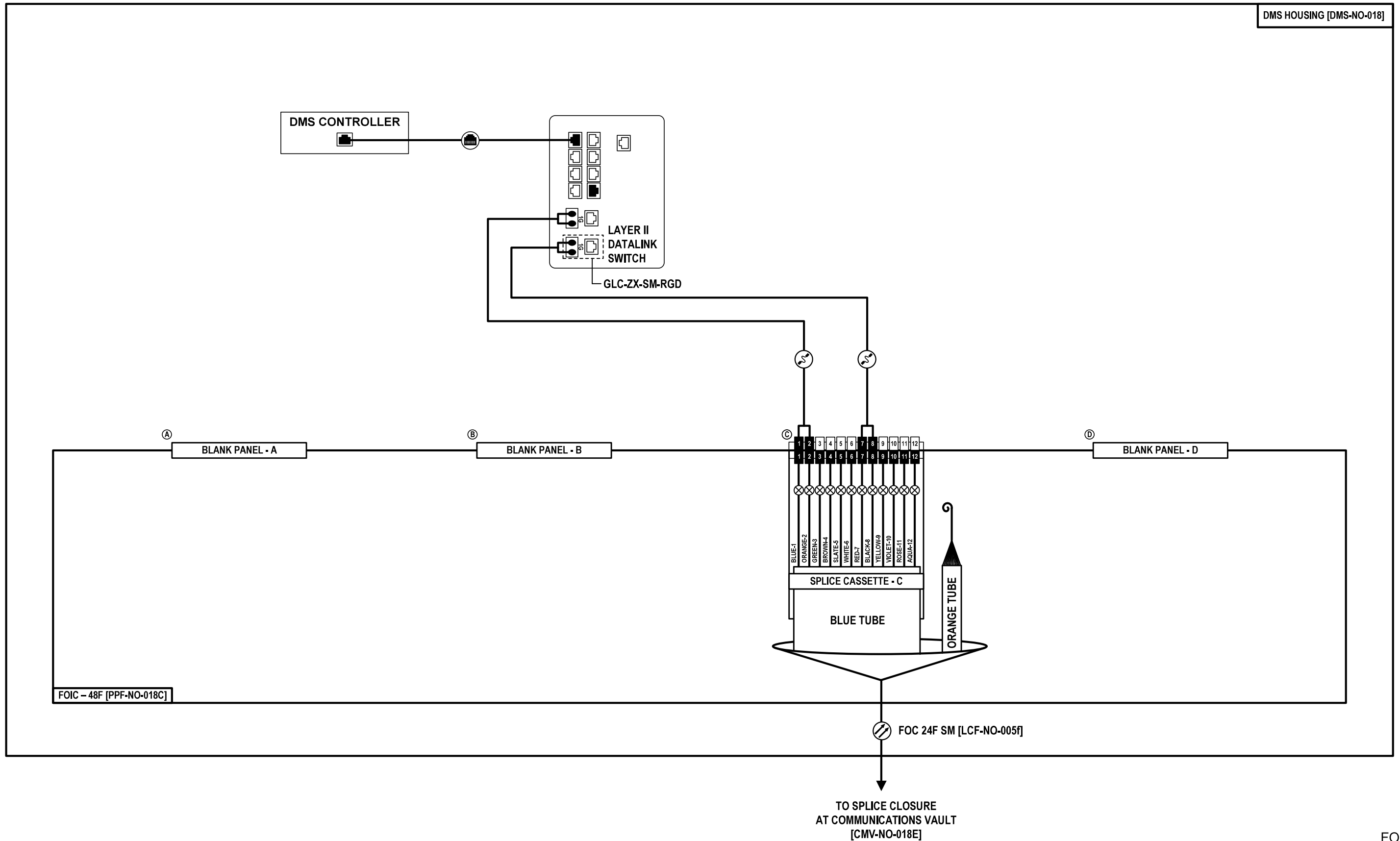
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	PLOT SCALE = \$SCALES\$	CHECKED CRH	REVISED -			CONTRACT NO. 62N40					
	PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET NO. 31 OF 57 SHEETS	STA. TO STA.			

NOTES:

- 48 PORT FIBER OPTIC INTERCONNECT CENTER AT THIS LOCATION MAY BE REPLACED WITH A 12 PORT FIBER OPTIC INTERCONNECT CENTER WITH APPROVAL BY THE ENGINEER AND AT NO ADDITIONAL COST TO THE DEPARTMENT.

IL-64 BETWEEN HILLSIDE AVENUE AND WOLF ROAD

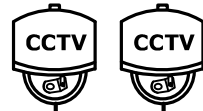
DMS HOUSING [DMS-NO-018]



FOC-32

	USER NAME = \$USERS	DESIGNED JJZ	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">FIBER SPLICING AND CABINET CONNECTION DETAILS DYNAMIC MESSAGE SIGN [DMS-NO-018]</p>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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							ILLINOIS	FED. AID PROJECT			

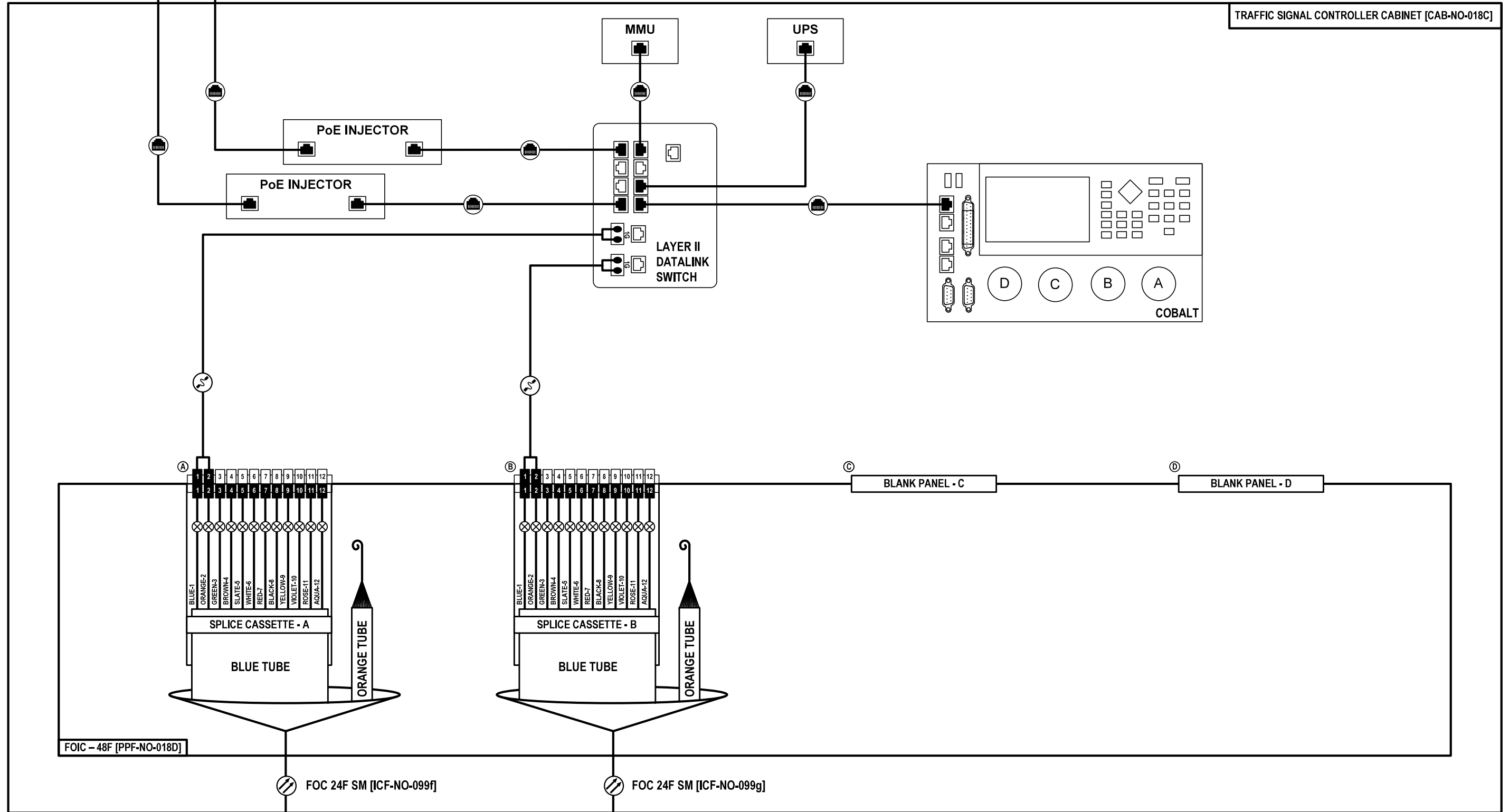
PTZ CAMERA [CCTV-NO-018A]



PTZ CAMERA [CCTV-NO-018B]

IL-64 AT WOLF ROAD

TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-018C]



FOIC - 48F [PPF-NO-018D]

FOC 24F SM [ICF-NO-099f]

FOC 24F SM [ICF-NO-099g]

TO IL-64 AT HILLSIDE AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-018B]

TO IL-64 AT ROY AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-019]

FOC-33

Jacobs

USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -
	DRAWN JJZ	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED CRH	REVISED -
PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS
TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-018C]**

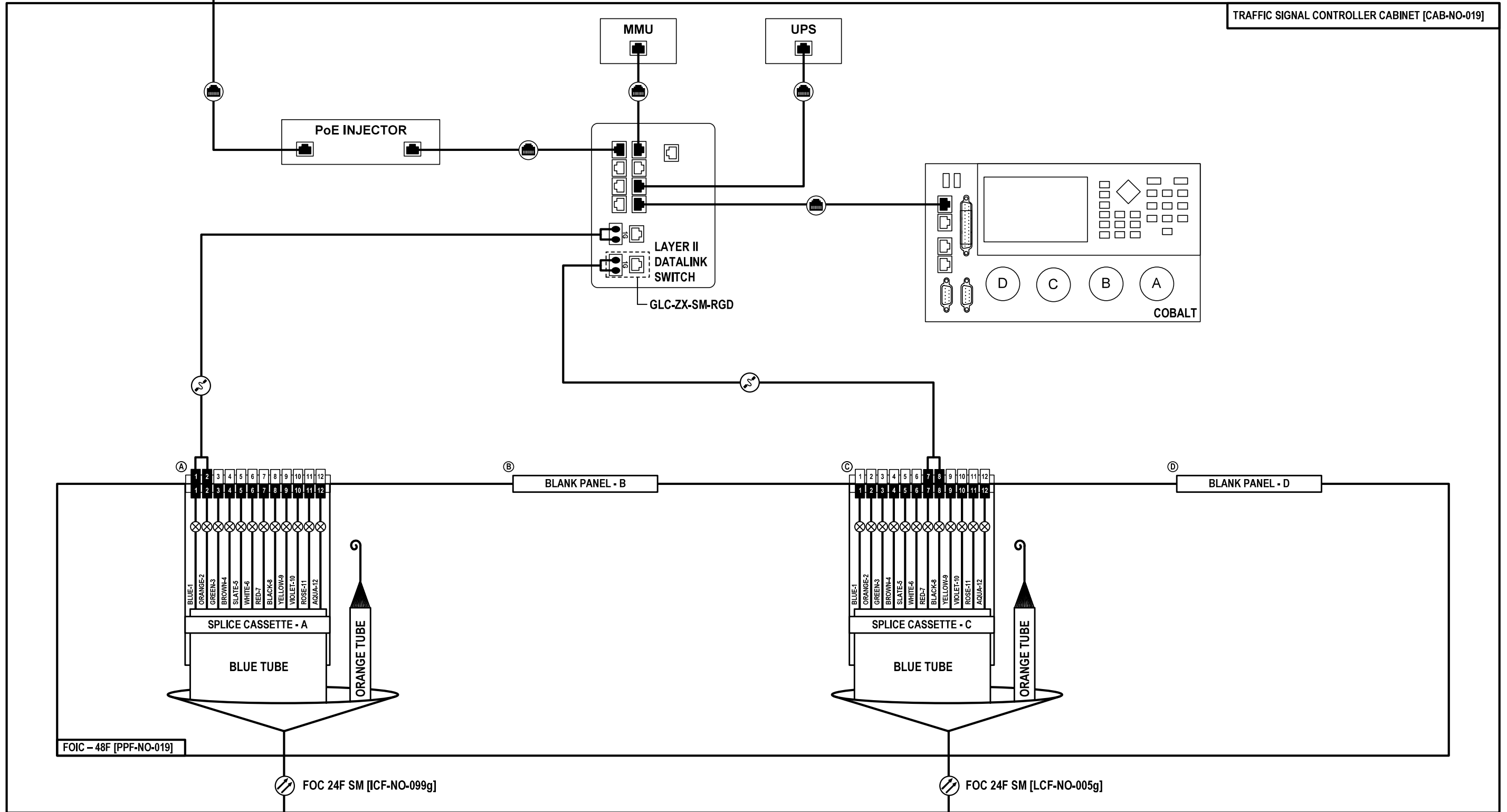
SCALE: SHEET NO. 33 OF 57 SHEETS STA. TO STA.

F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 387
CONTRACT NO. 62N40				
ILLINOIS		FED. AID PROJECT		

CCTV PTZ CAMERA [CCTV-NO-019]

IL-64 AT ROY AVENUE

TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-019]



FOIC - 48F [PPF-NO-019]

FOC 24F SM [ICF-NO-099g]

FOC 24F SM [LCF-NO-005g]

TO IL-64 AT WOLF RD
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-018C]

TO SPlice CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-019A]

FOC-34

Jacobs

USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -
	DRAWN JJZ	REVISED -
PLOT SCALE = \$SCALES\$	CHECKED CRH	REVISED -
PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS
TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-019]**

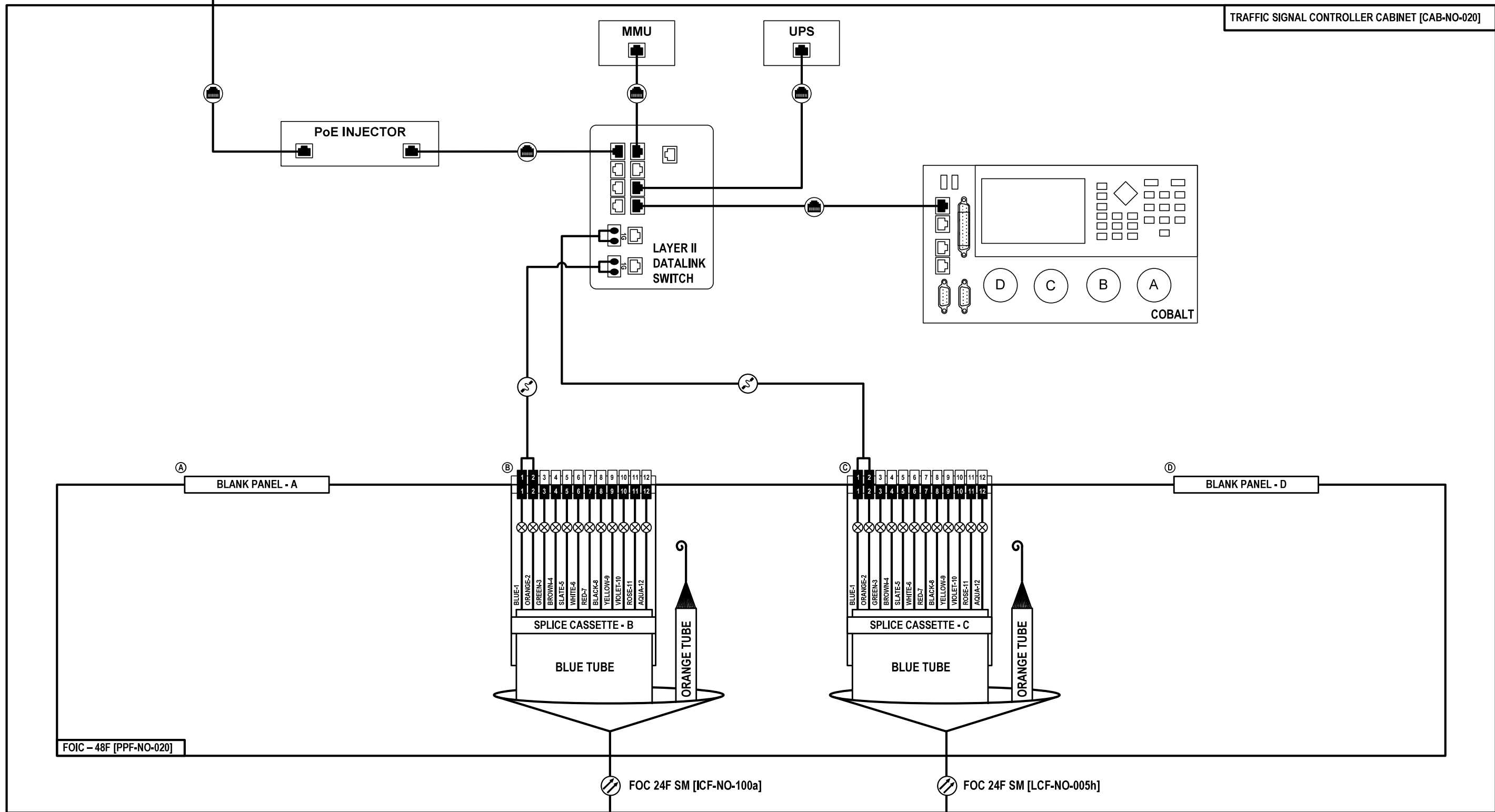
SCALE: SHEET NO. 34 OF 57 SHEETS STA. TO STA.

F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 388
CONTRACT NO. 62N40				
ILLINOIS		FED. AID PROJECT		

CCTV PTZ CAMERA [CCTV-NO-020]

IL-64 AT CORNELL AVENUE

TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-020]



FOIC - 48F [PPF-NO-020]

FOC 24F SM [ICF-NO-100a]

FOC 24F SM [LCF-NO-005h]

TO IL-64 AT WOLF RD
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-018C]

TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-020A]

FOC-35

Jacobs

USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -
	DRAWN JJZ	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED CRH	REVISED -
PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

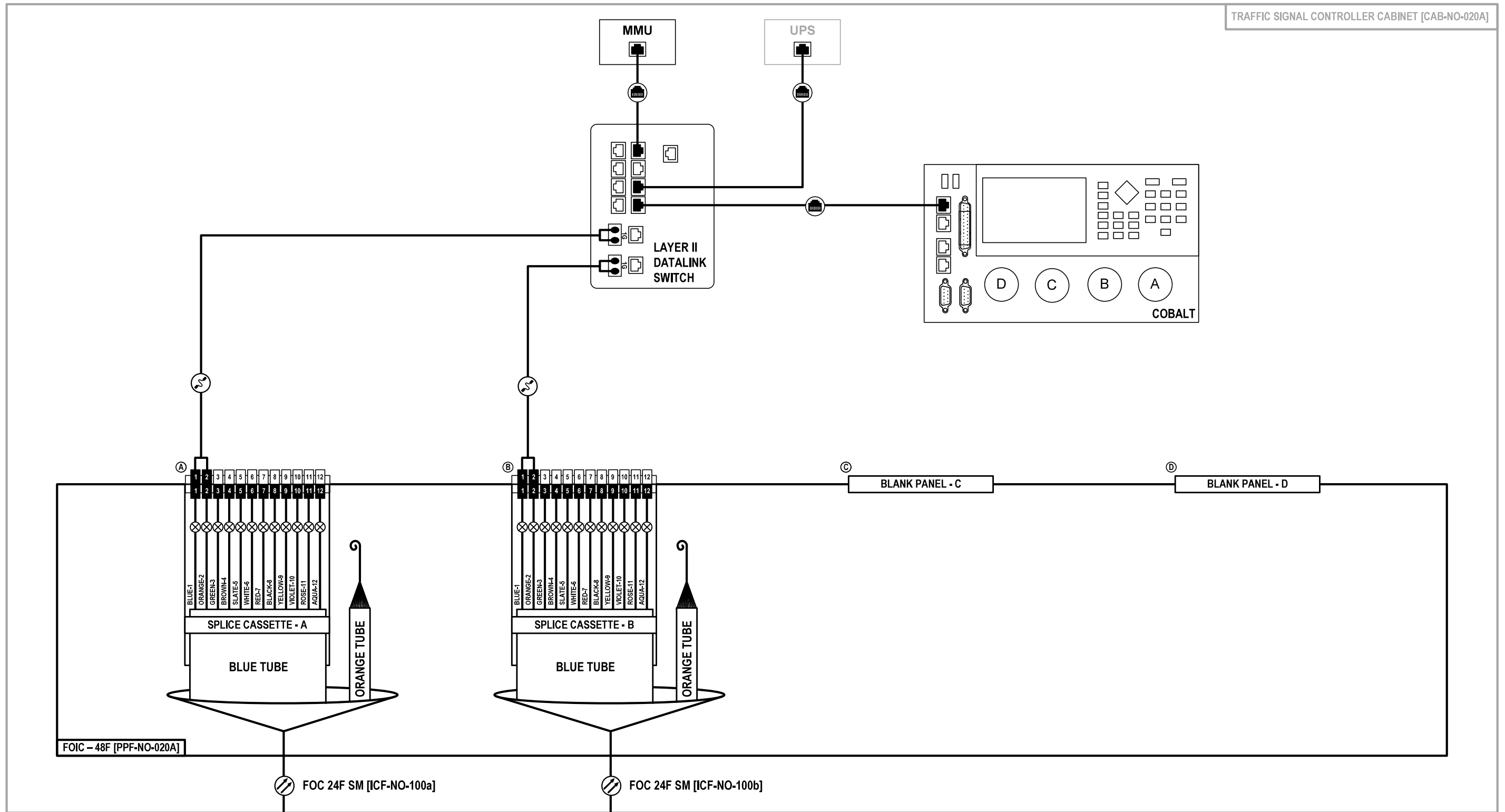
**FIBER SPLICING AND CABINET CONNECTION DETAILS
TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-020]**

SCALE: SHEET NO. 35 OF 57 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	389
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				

IL-64 AT HAWTHORNE AVENUE

TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-020A]



FOIC - 48F [PPF-NO-020A]

FOC 24F SM [ICF-NO-100a]

FOC 24F SM [ICF-NO-100b]

TO IL-64 AT CORNELL AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-020]

TO IL-64 AT INDIAN BOUNDARY DR
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-020B]

Jacobs

USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -
	DRAWN JJZ	REVISED -
PLOT SCALE = \$SCALES\$	CHECKED CRH	REVISED -
PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -

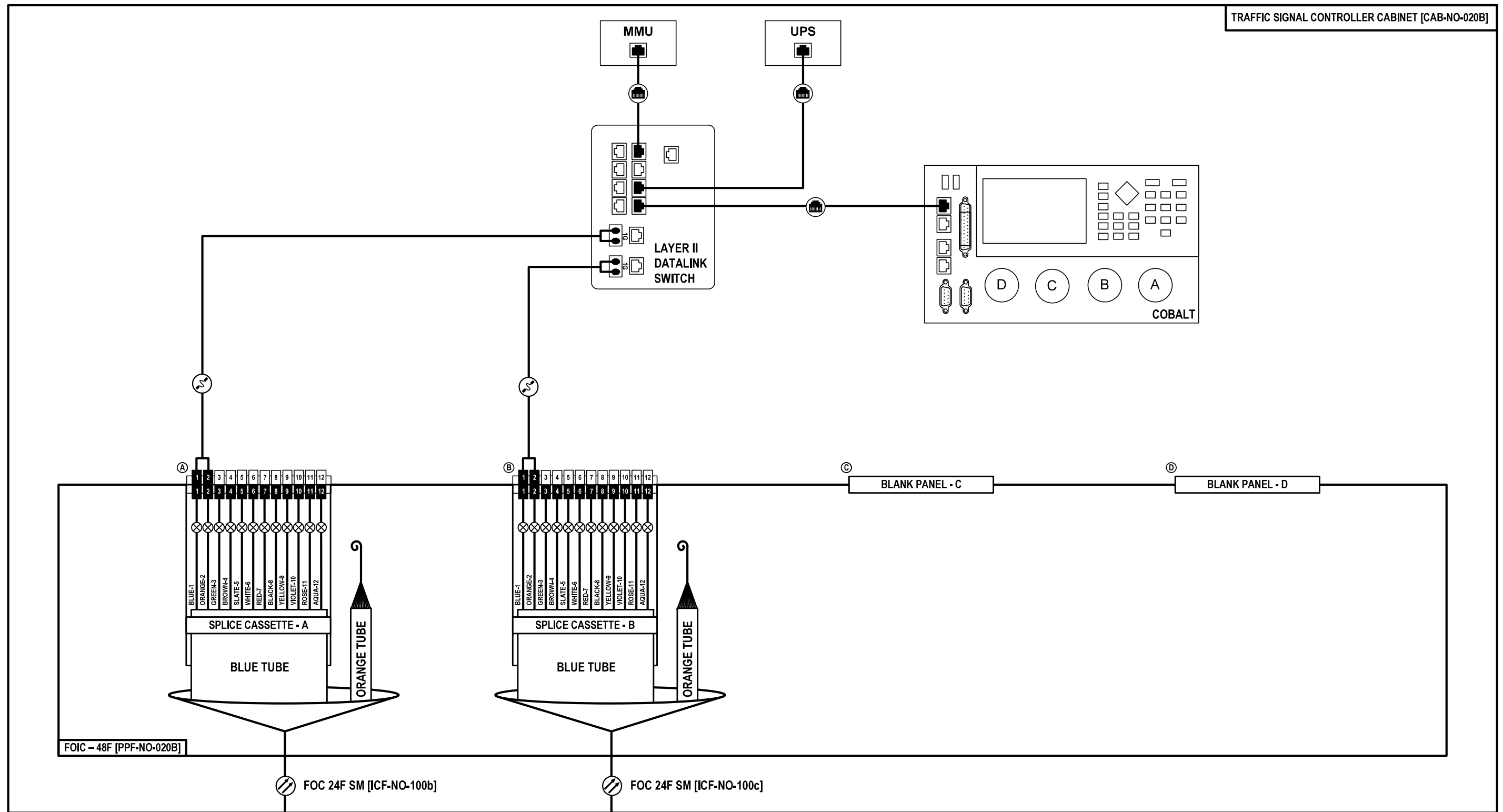
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS
TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-020A]**

SCALE: SHEET NO. 36 OF 57 SHEETS STA. TO STA.

F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 390
CONTRACT NO. 62N40				
ILLINOIS		FED. AID PROJECT		

FOC-36



TO IL-64 AT HAWTHORN AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-020A]

TO IL-64 AT 25TH AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-020C]

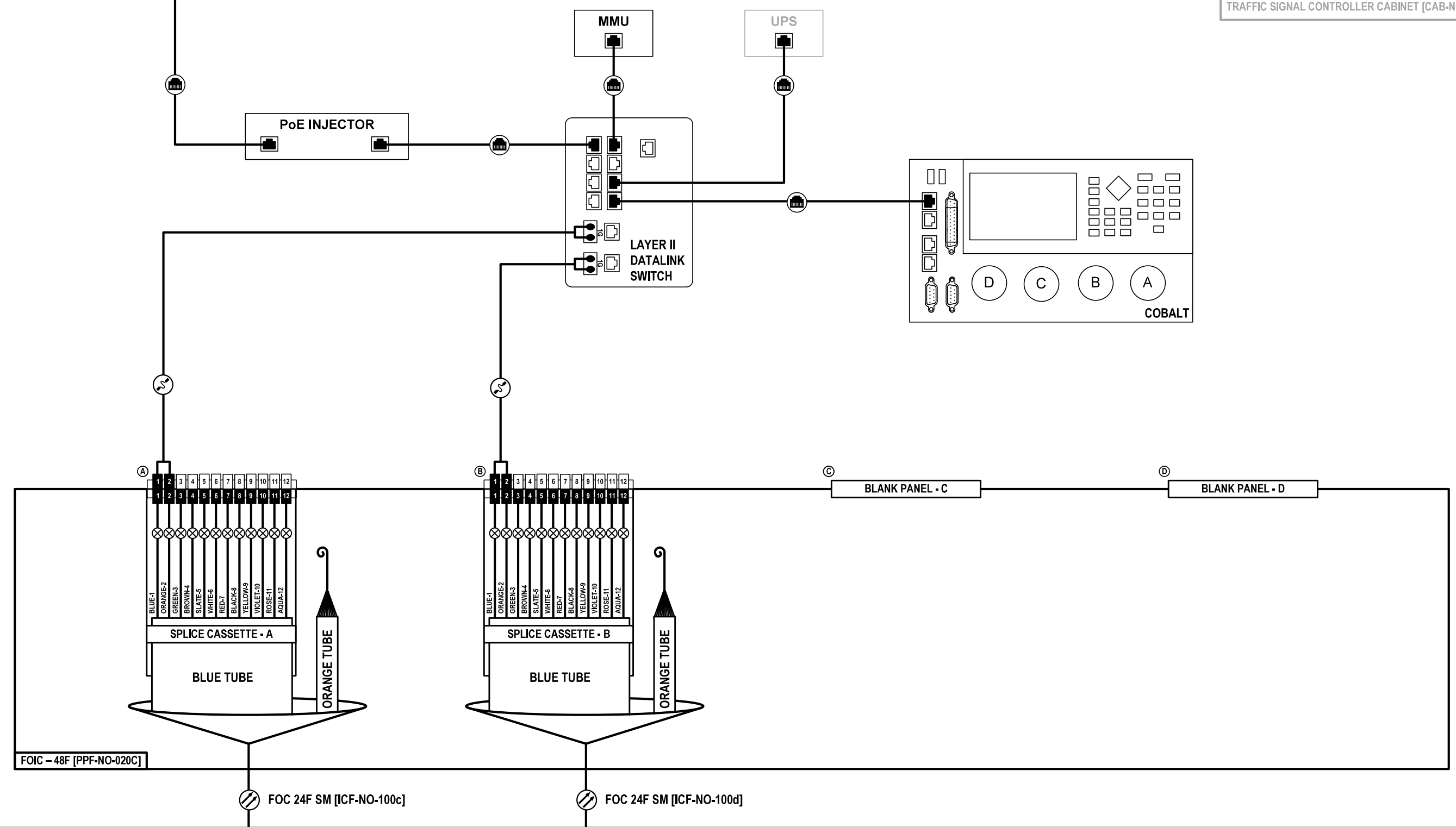
FOC-37

	USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING AND CABINET CONNECTION DETAILS TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-020B]	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -			CONTRACT NO. 62N40				
						ILLINOIS	FED. AID PROJECT			
FILE NAME = \$FILES\$					SCALE:	SHEET NO. 37 OF 57 SHEETS	STA.	TO STA.		

CCTV PTZ CAMERA [CCTV-NO-020A]

IL-64 AT 25TH AVENUE

TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-020C]



FOIC - 48F [PPF-NO-020C]

FOC 24F SM [ICF-NO-100c]

FOC 24F SM [ICF-NO-100d]

TO IL-64 AT INDIAN BOUNDARY DR
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-020B]

TO IL-64 AT JEWEL DR
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-020D]

BLANK PANEL - C

BLANK PANEL - D

Jacobs

USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -
	DRAWN JJZ	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED CRH	REVISED -
PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS
TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-020C]**

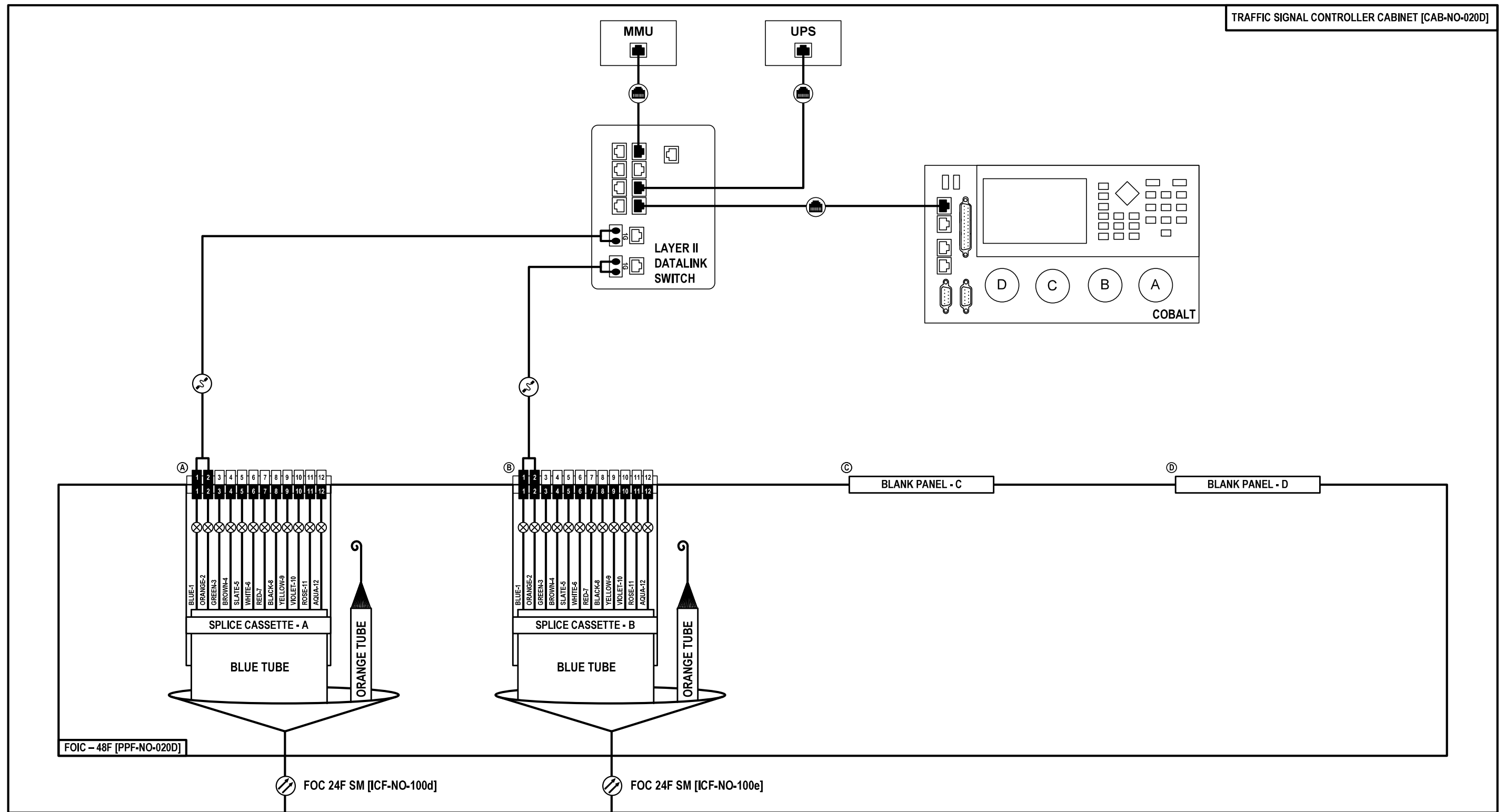
SCALE: SHEET NO. 38 OF 57 SHEETS STA. TO STA.

F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 392
CONTRACT NO. 62N40				
ILLINOIS		FED. AID PROJECT		

FOC-38

IL-64 AT JEWEL DRIVE

TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-020D]

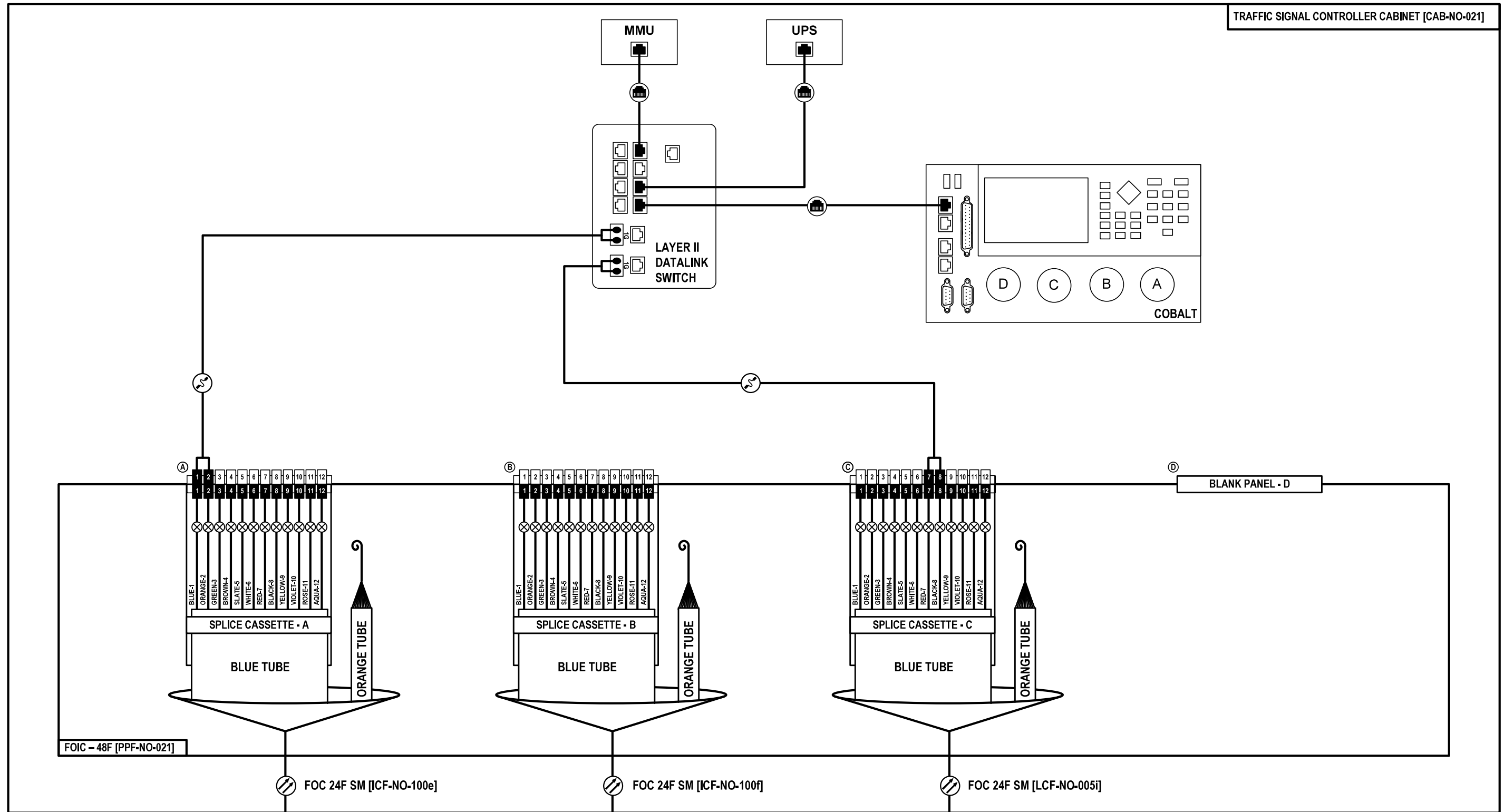


TO IL-64 AT 25TH AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-020C]

TO IL-64 AT 19TH AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-021]

FOC-39

	USER NAME = \$USERS	DESIGNED JJZ	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">FIBER SPLICING AND CABINET CONNECTION DETAILS TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-020D]</p>	F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 393	
	PLOT SCALE = \$SCALES	CHECKED CRH	REVISED -			CONTRACT NO. 62N40					
	PLOT DATE = \$DATES	DATE 03/22/2024	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET NO. 39 OF 57 SHEETS	STA. TO STA.			



FOIC - 48F [PPF-NO-021]

FOC 24F SM [CF-NO-100e]

FOC 24F SM [CF-NO-100f]

FOC 24F SM [LCF-NO-005i]

TO IL-64 AT JEWEL DR
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-020D]

TO IL-64 AT 15TH AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-021A]

TO SPlice CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-021A]

FOC-40



USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -
	DRAWN JJZ	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED CRH	REVISED -
PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER SPLICING AND CABINET CONNECTION DETAILS
TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-021]

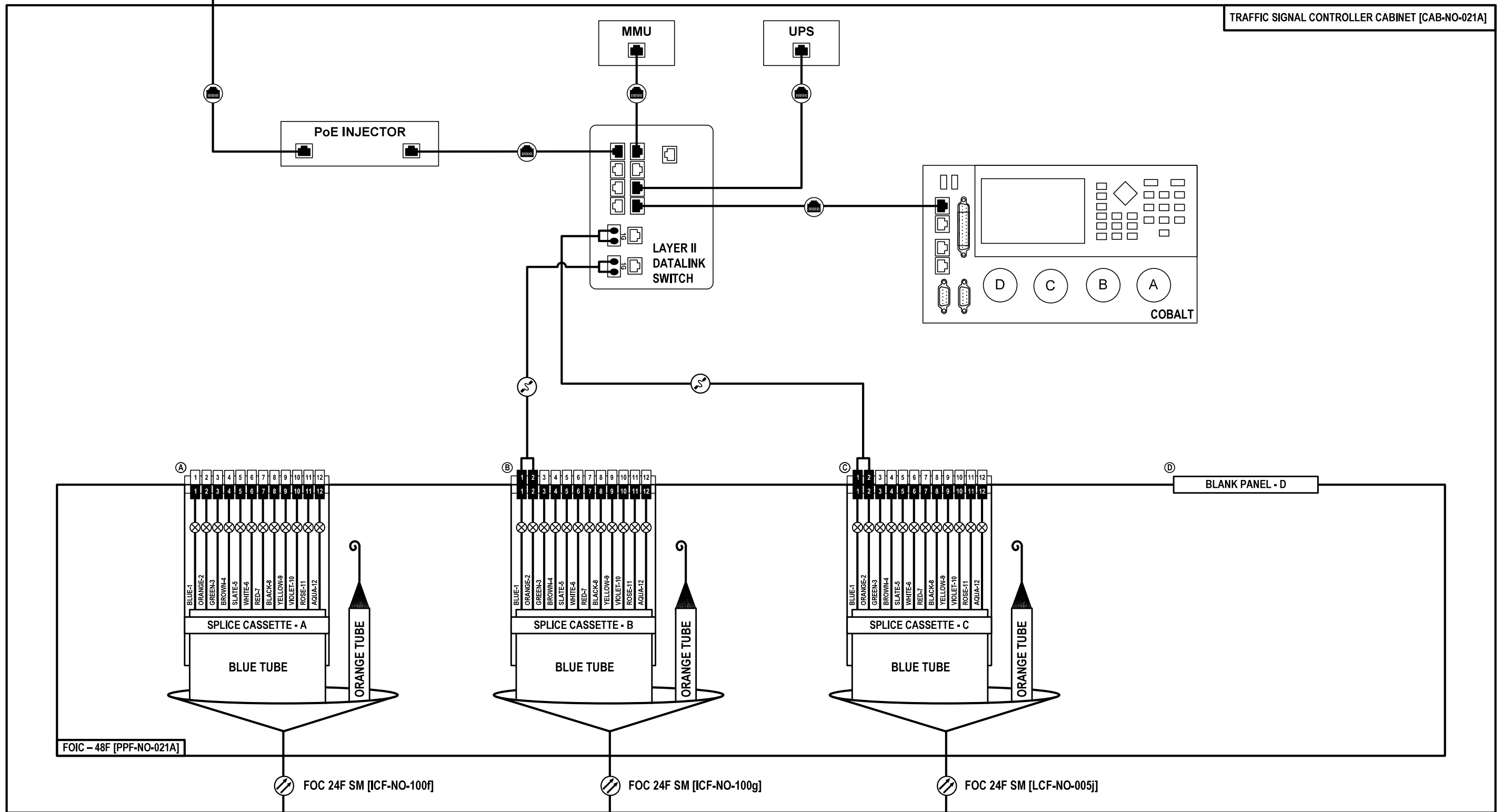
SCALE: SHEET NO. 40 OF 57 SHEETS STA. TO STA.

F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 394
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				

CCTV PTZ CAMERA [CCTV-NO-021]

IL-64 AT 15TH AVENUE

TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-021A]



FOIC - 48F [PPF-NO-021A]

FOC 24F SM [ICF-NO-100f]

FOC 24F SM [ICF-NO-100g]

FOC 24F SM [LCF-NO-005j]

TO IL-64 AT 19TH AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-021]

TO IL-64 AT GEORGE ST
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-021B]

TO SPLICE CLOSURE
AT COMMUNICATIONS VAULT
[CMV-NO-021C]

BLANK PANEL - D

FOC-41

Jacobs

USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -
	DRAWN JJZ	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED CRH	REVISED -
PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

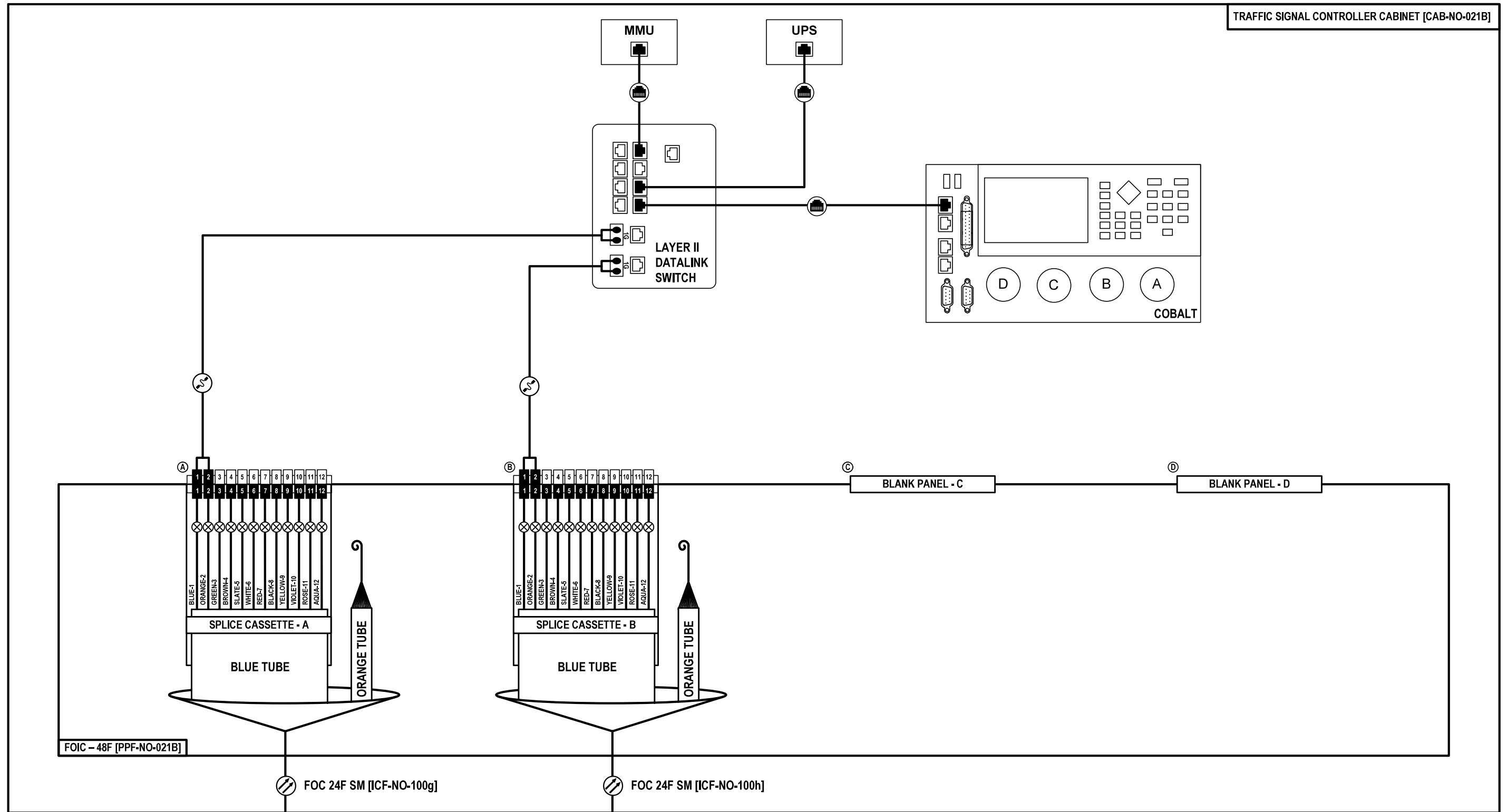
FIBER SPLICING AND CABINET CONNECTION DETAILS
TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-021A]

SCALE: SHEET NO. 41 OF 57 SHEETS STA. TO STA.

F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 395
CONTRACT NO. 62N40			ILLINOIS FED. AID PROJECT	

IL-64 AT GEORGE STREET

TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-021B]



TO IL-64 AT 15TH AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-021A]

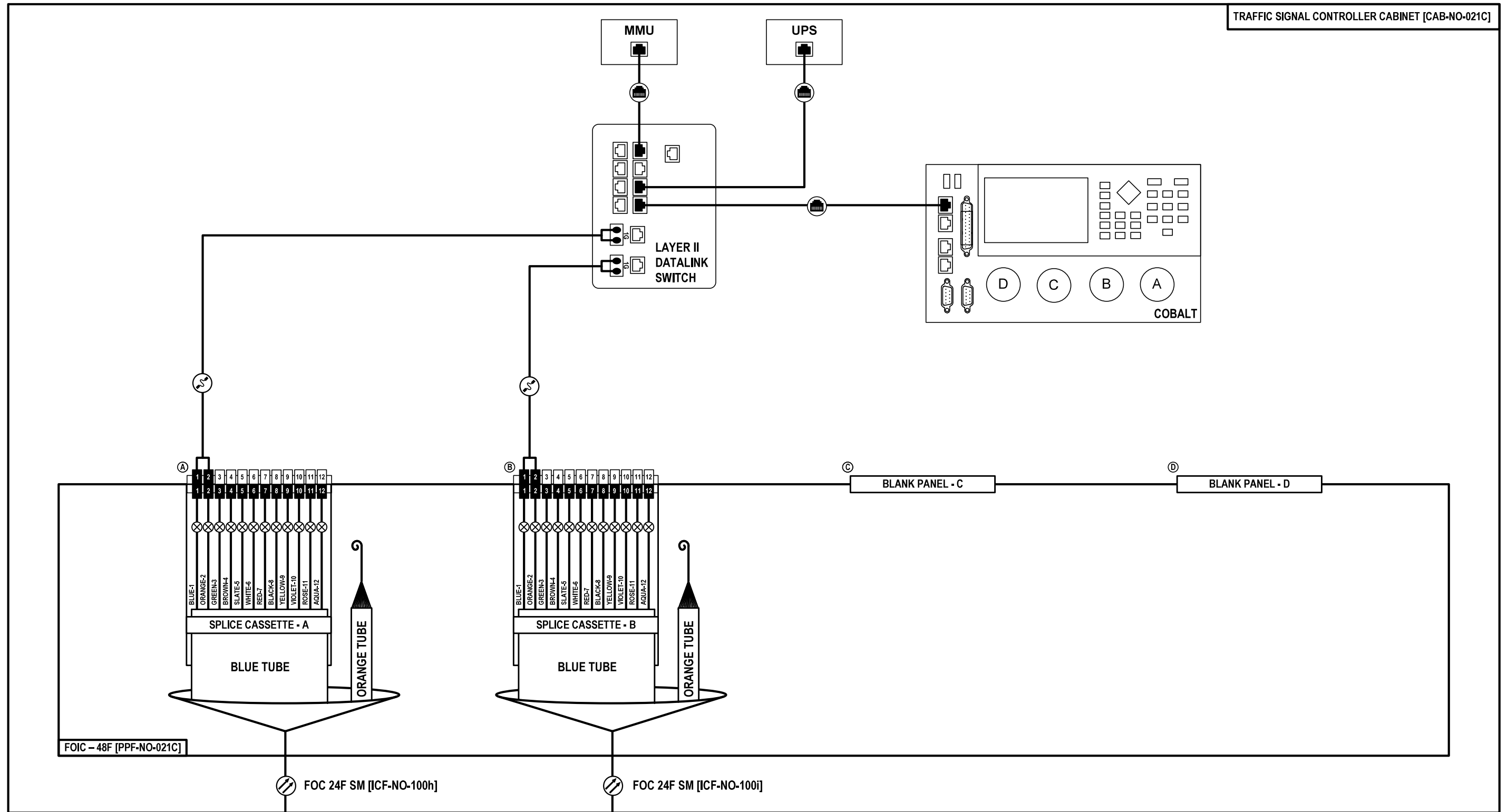
TO IL-64 AT WINSTON PLZ
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-021C]

FOC-42

	USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">FIBER SPLICING AND CABINET CONNECTION DETAILS TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-021B]</p>	F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 396	
	PLOT SCALE = \$SCALES\$	CHECKED CRH	REVISED -			CONTRACT NO. 62N40					
	PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET NO. 42 OF 57 SHEETS	STA. TO STA.			

IL-64 AT WINSTON PLAZA

TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-021C]

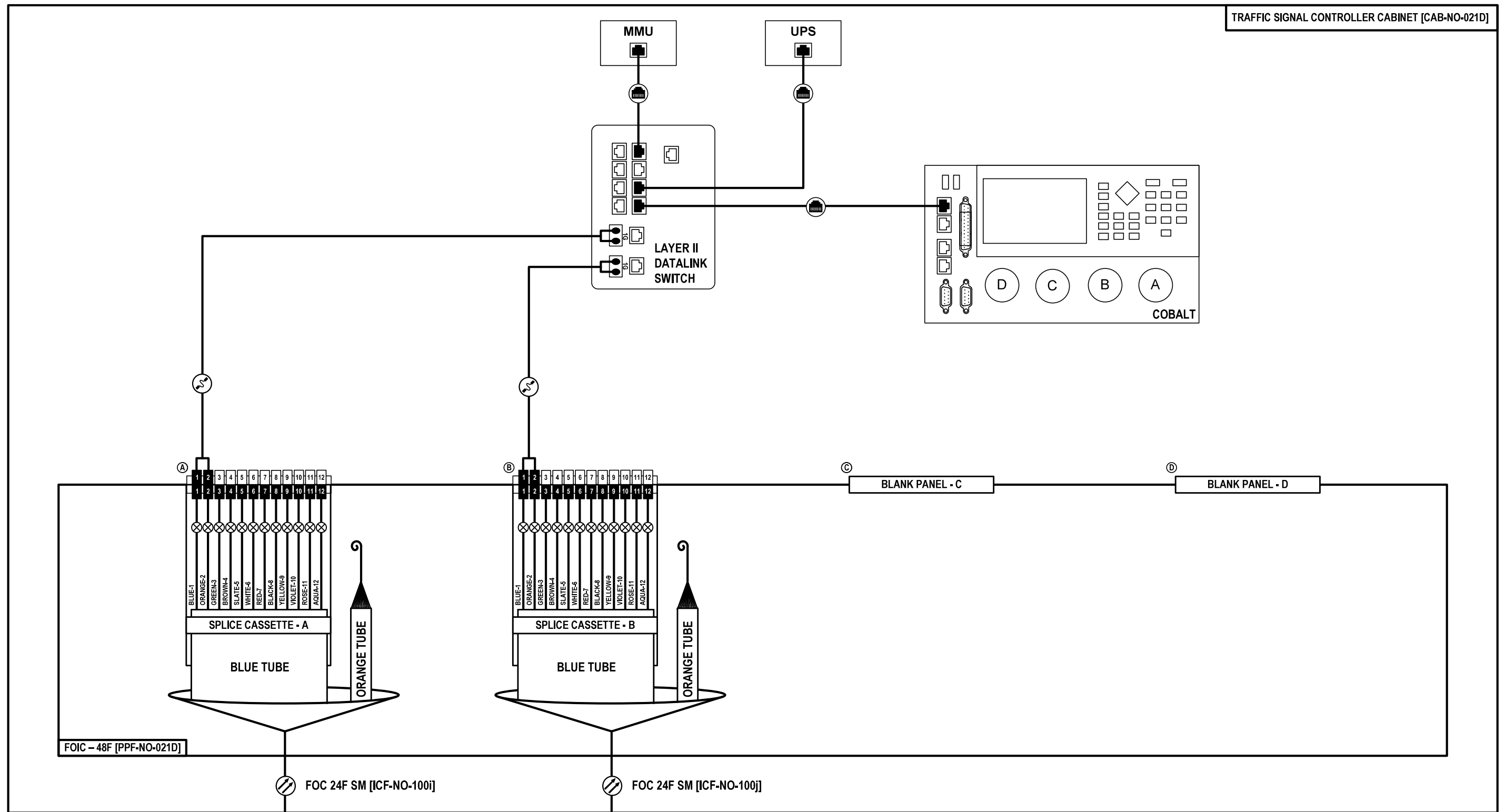


TO IL-64 AT GEORGE ST
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-021B]

TO IL-64 AT 9TH AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-021D]

FOC-43

	USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">FIBER SPLICING AND CABINET CONNECTION DETAILS TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-021C]</p>	F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 397	
	PLOT SCALE = \$SCALES\$	CHECKED CRH	REVISED -			CONTRACT NO. 62N40					
	PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET NO. 43 OF 57 SHEETS	STA. TO STA.			

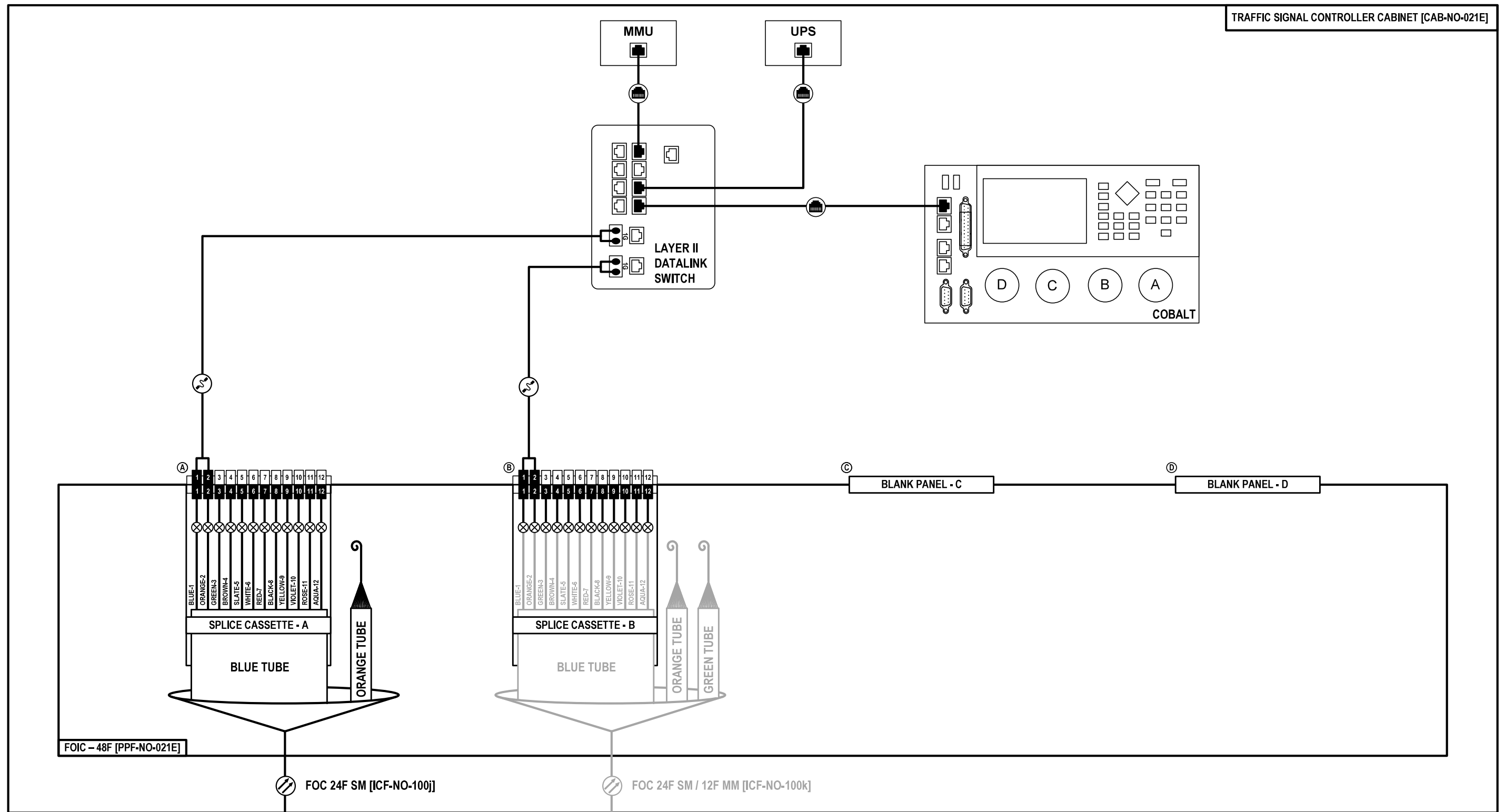


TO IL-64 AT WINSTON PLZ
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-021C]

TO IL-64 AT 7TH AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-021E]

USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -
	DRAWN JJZ	REVISED -
PLOT SCALE = \$SCALES\$	CHECKED CRH	REVISED -
PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -

F.A.P. RTE. 307	SECTION 2020-263-SUR, SW&TS	COUNTY COOK	TOTAL SHEETS 492	SHEET NO. 398
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				



TO IL-64 AT 9TH AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-021D]

TO IL-64 AT 5TH AVE
TRAFFIC SIGNAL CONTROLLER CABINET
[CAB-NO-021F]

FOC-45

	USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING AND CABINET CONNECTION DETAILS TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-021E]	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = \$SCALES\$	CHECKED CRH	REVISED -			307	2020-263-SUR, SW&TS	COOK	492	399	
	PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -			CONTRACT NO. 62N40					
						SCALE:	SHEET NO. 45 OF 57 SHEETS	STA.	TO STA.		ILLINOIS

IL-64 AT 5TH AVENUE

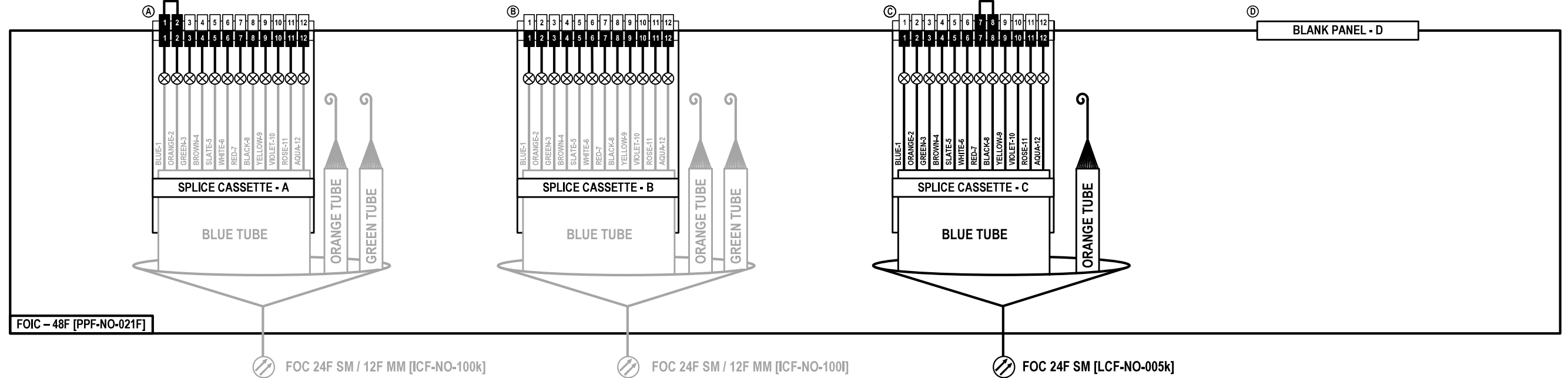
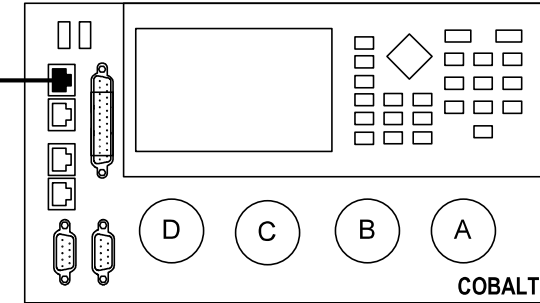
TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-021F]

CCTV PTZ CAMERA [CCTV-NO-021A]

MMU UPS

PoE INJECTOR

LAYER II DATALINK SWITCH



TO IL-64 AT 7TH AVE
 TRAFFIC SIGNAL CONTROLLER CABINET
 [CAB-NO-021E]

TO IL-64 AT IL-171 (1ST AVE)
 TRAFFIC SIGNAL CONTROLLER CABINET
 [CAB-NO-022]

TO SPLICE CLOSURE
 AT COMMUNICATIONS VAULT
 [CMV-NO-021H]

FOC-46

Jacobs

USER NAME = \$USERS\$	DESIGNED JJZ	REVISED -
	DRAWN JJZ	REVISED -
PLOT SCALE = \$SCALES\$	CHECKED CRH	REVISED -
PLOT DATE = \$DATES\$	DATE 03/22/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS
 TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-021F]**

SCALE: SHEET NO. 46 OF 57 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	2020-263-SUR, SW&TS	COOK	492	400
CONTRACT NO. 62N40				
ILLINOIS FED. AID PROJECT				