



QUIGG ENGINEERING INC

USER NAME = AFarooqi	DESIGNED - AAF	REVISED -
	DRAWN - AAF	REVISED -
PLOT SCALE = \$Scales\$	CHECKED - JA	REVISED -
PLOT DATE = 4/15/2025	DATE - 12/19/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
RIEGEL RD/CHICAGO RD AT HOLBROOK RD

SCALE: 1"=20'	SHEET 1	OF 4	SHEETS	STA.	TO STA.
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E.A.P. RTE. VAR	SECTION 2023-042-N,TS	COUNTY COOK	TOTAL SHEETS 42	SHEET NO. 26
CONTRACT NO. 62W58			ILLINOIS FED.AID PROJECT	

TS 5710

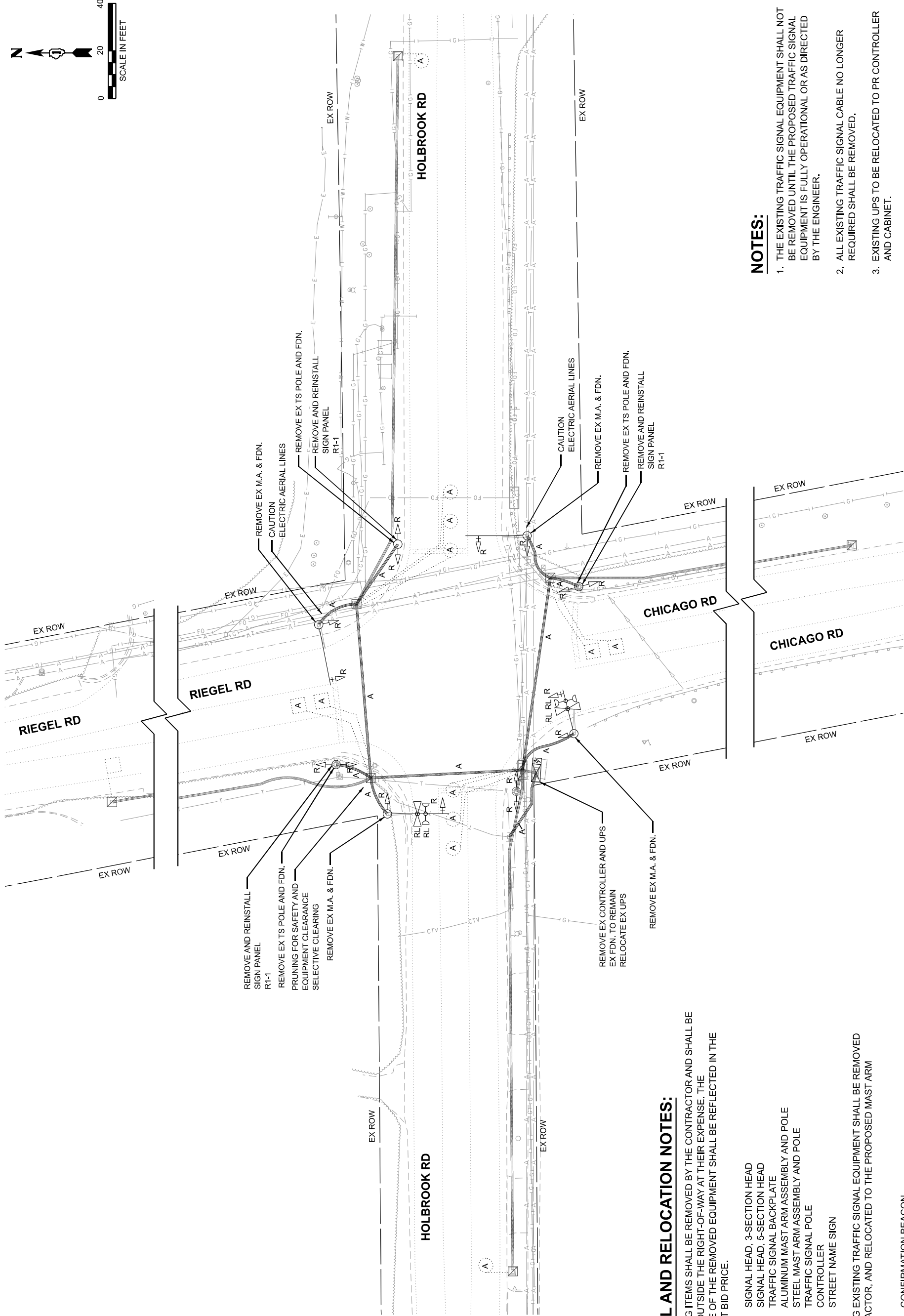
REMOVAL AND RELOCATION NOTES:

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

- 8 EACH SIGNAL HEAD, 3-SECTION HEAD
- 8 EACH SIGNAL HEAD, 5-SECTION HEAD
- 4 EACH TRAFFIC SIGNAL BACKPLATE
- 3 EACH ALUMINUM MAST ARM ASSEMBLY AND POLE
- 1 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 3 EACH TRAFFIC SIGNAL POLE
- 1 EACH CONTROLLER
- 4 EACH STREET NAME SIGN

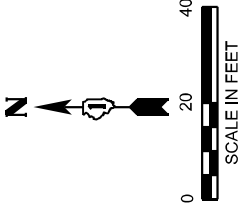
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, AND RELOCATED TO THE PROPOSED MAST ARM ASSEMBLIES:

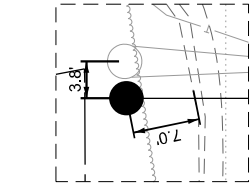
- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR



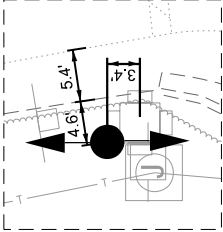
NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. EXISTING UPS TO BE RELOCATED TO PR CONTROLLER AND CABINET.

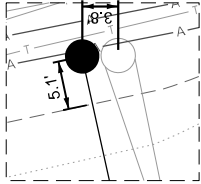




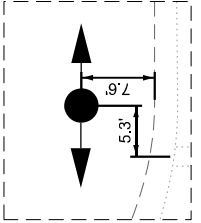
DETAIL A
N.T.S.



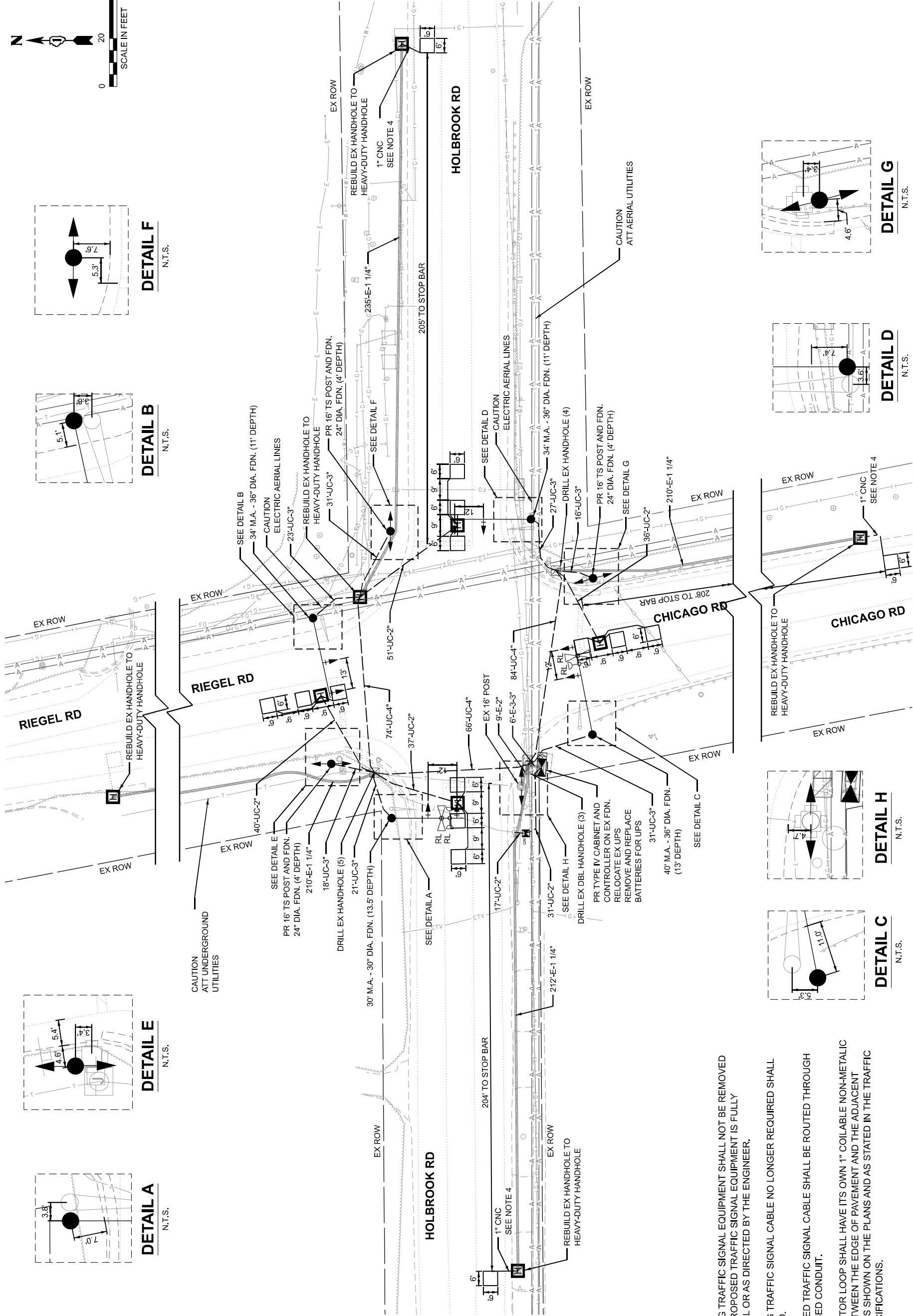
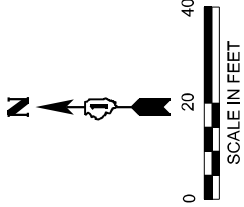
DETAIL E
N.T.S.



DETAIL B
N.T.S.

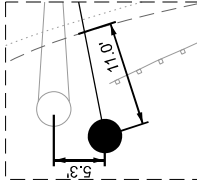


DETAIL F
N.T.S.

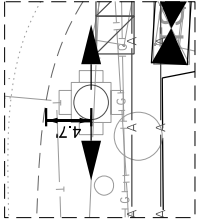


NOTES:

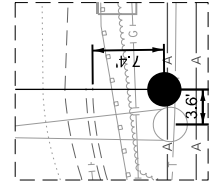
1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
4. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1\" COILABLE NON-METALIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.



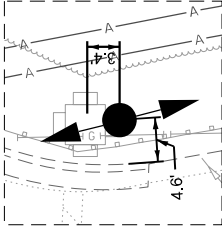
DETAIL C
N.T.S.



DETAIL H
N.T.S.



DETAIL D
N.T.S.



DETAIL G
N.T.S.



QUIGG ENGINEERING INC

USER NAME = AAvilez
DRAWN = AAF
CHECKED = JA
DATE = 12/19/2024

DESIGNED = -
REVISED = -
CHECKED = -
REVISED = -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
RIEDEL RD/CHICAGO RD AT HOLBROOK RD

E.A.P.
RTE.
VAR

SECTION
2023-04-24 N.T.S.

COUNTY
COOK

TOTAL SHEETS
42

SHEET NO.
27

SCALE: 1\"=20'

SHEET 2

OF 4

SHEETS

STA.

TO STA.

TS 5710

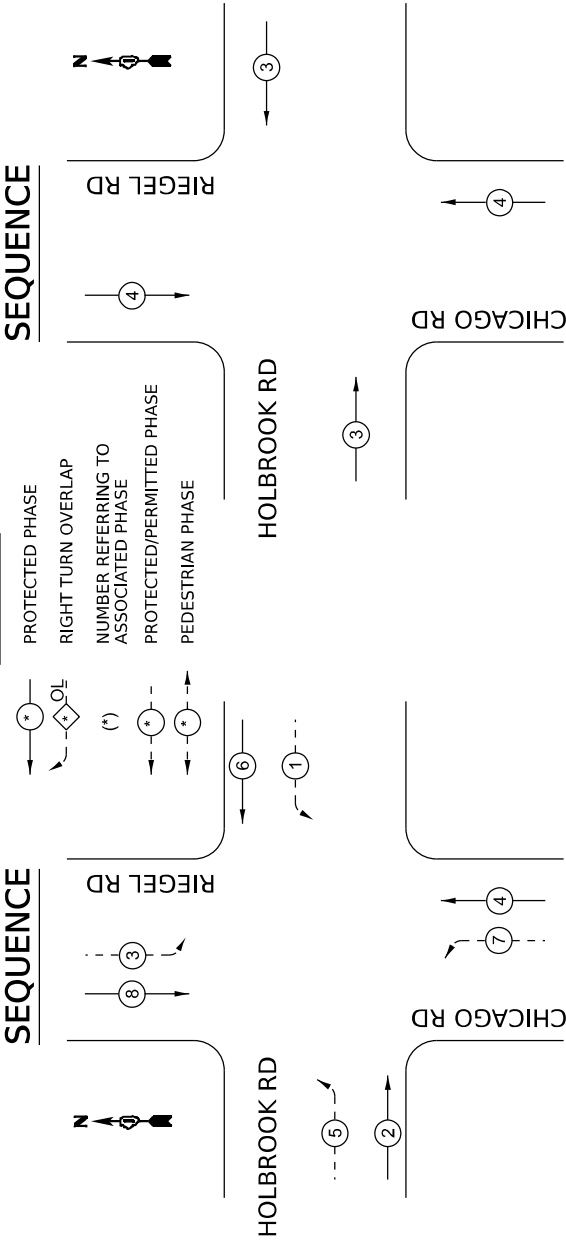
EXISTING CONTROLLER

SEQUENCE

LEGEND

EXISTING PREEMPTION

SEQUENCE

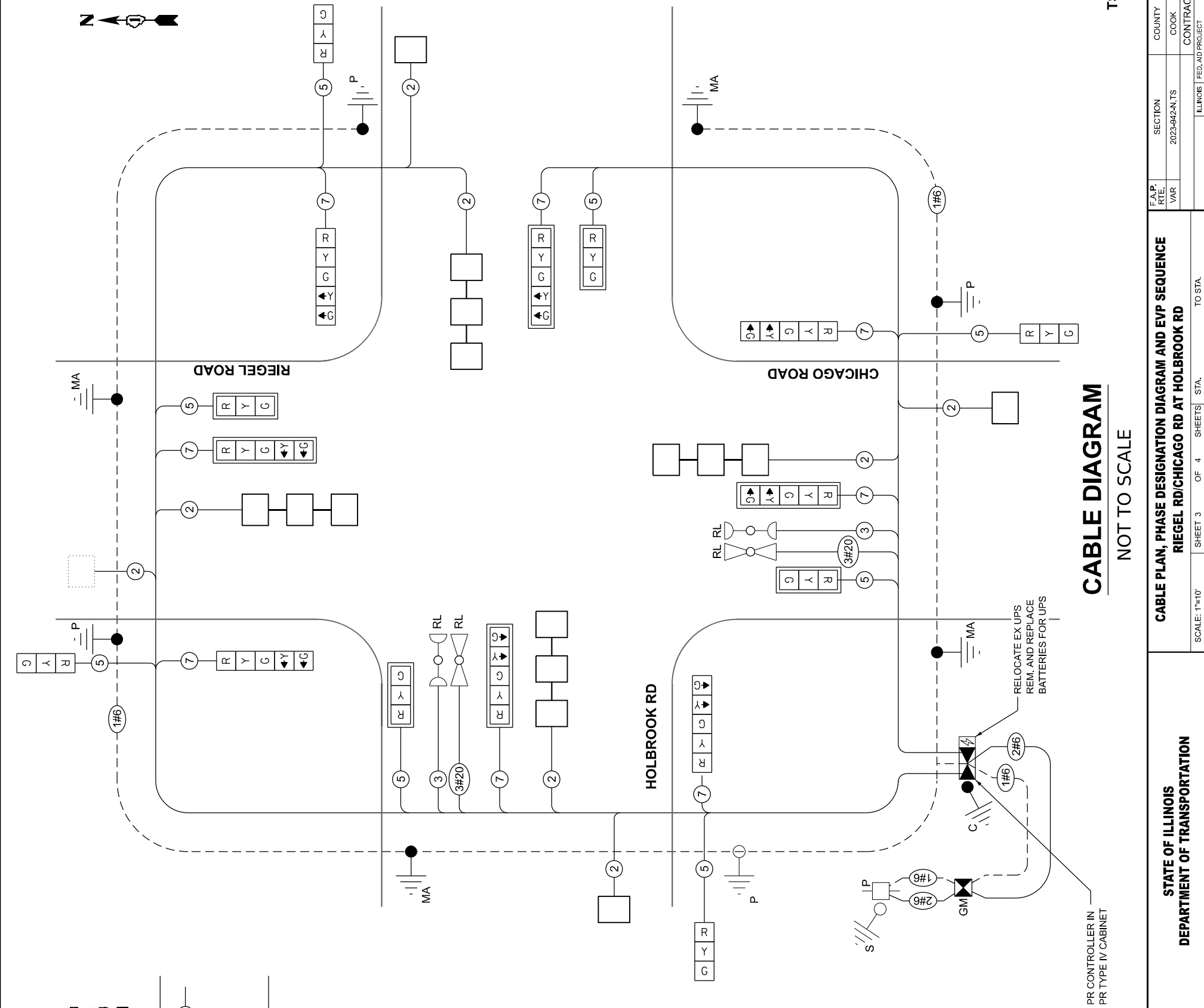


NOTES:

1. ALL RED INDICATIONS SHALL HAVE LENS COVERS.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
RIEGEL RD AT HOLBROOK RD				
EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	8	11	88	
1 OR 3-SECTION		14		
4-SECTION	8	13	-	
5-SECTION	-	22	-	
PROGRAMMABLE	-	32	-	
3-SECTION	-	28	-	
4-SECTION	-	15	-	
5-SECTION	-	150	-	
PEDESTRIAN SIGNAL	1	100	-	
CONTROLLER	-	25	-	
MASTER CONTROLLER	1	20	40	
UPS	2	25	50	
DETECTION	2	25	50	
BLANK-OUT SIGN	-	35	-	
NETWORK SWITCH	-	15	-	
II OR III	-	240	-	
CELLULAR MODEM	-	240	-	
TOTAL SERVICE WIRE SIZING				908
UPS CHARGING	1	225	225	
BATTERY HEATER MAT	1	180	180	
CABINET HEATER	1	200	200	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
TOTAL SERVICE WIRE SIZING				908
USER NAME = alarocqi				
DESIGNED - AAF				
DRAWN - AAF				
CHECKED - JA				
DATE - 12/19/2024				
PILOT SCALE = \$Scales\$				
PILOT DATE = 2/13/2025				
QUIGG ENGINEERING INC				

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHAUMBURG, IL 60196
201 W CENTER CT.
ENERGY SUPPLY:
CONTACT: DAVE SCHACT
PHONE: (630) 437-2129
COMPANY: COMED
ACCOUNT NUMBER: 26554-86536
METER NUMBER:

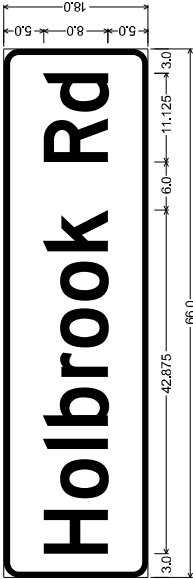


CABLE DIAGRAM

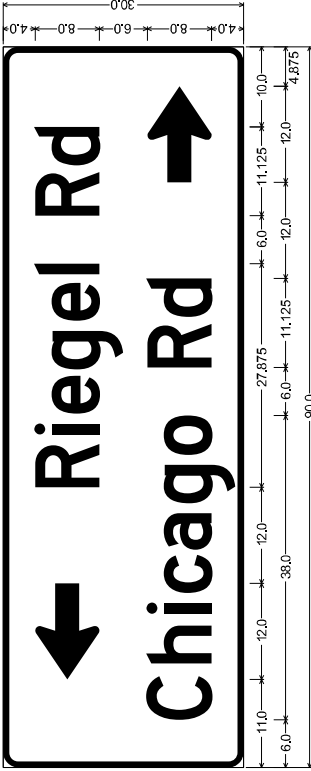
NOT TO SCALE

 QUIGG ENGINEERING INC		USER NAME = aifrooqi		DESIGNED -	AAAF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION					CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EVP SEQUENCE RIEGEL RD/CHICAGO RD AT HOLBROOK RD					F.A.P. RTE.		COUNTY		TOTAL SHEETS				
		PLOT SCALE = SCALES		DRAWN -	AAAF	REVISED -											VAR		2023-942-NTS		COOK		42		
		PLOT DATE = 2/13/2025		CHECKED -	JA	REVISED -						SCALE: 1"=10'		SHEET 3		OF 4		SHEETS		STA.		TO STA.		CONTRACT NO. 62W58	
				DATE -	12/19/2024	REVISED -																			

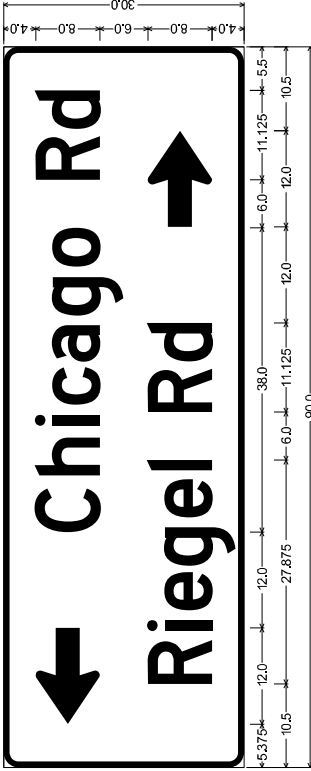
SIGN PANEL DETAILS



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	8.25	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	18.75	2	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	18.75	2	ZZ	1

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.

NOTE:
FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE
DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGN DETAIL (TS-02)

SCHEDULE OF QUANTITIES

PAY ITEM DESCRIPTION	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	16.5
SIGN PANEL - TYPE 2	SQ FT	37.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	212
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	167
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	224
HEAVY-DUTY HANDHOLE	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	288
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1295
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1344
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1PAIR	FOOT	2070
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	74
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1557
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16.0
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	13.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	35.0
DRILL EXISTING HANDHOLE	EACH	12
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE I	FOOT	524
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4640
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE TO HEAVY-DUTY HANDHOLE	EACH	5
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
TEMPORARY INFORMATION SIGNING	SQ FT	103
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	281
ROD AND CLEAN EXISTING CONDUIT	FOOT	873
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
SELECTIVE CLEARING	UNIT	0.75
PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE	UNIT	1
REMOVE AND REINSTALL SIGN PANEL	SQ FT	19
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
LED SIGNAL FACE, LENS COVER	EACH	16

★ 100% COSTS TO THE VILLAGE OF CHICAGO HEIGHTS