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KENDALL COUNTY HIGHWAY DEPARTMENT

**PROPOSED
TRAFFIC SIGNAL
INSTALLATION PLANS**

**C.H. 11 (RIDGE ROAD) & HOLT ROAD INTERSECTION
SECTION 21-00163-00-TL
KENDALL COUNTY**

ELECTRIC

COMMONWEALTH EDISON
PUBLIC RELOCATIONS DEPT.
1910 S. BRIGGS ST
JOLIET, IL 60433
(815) 722-5010

TELEPHONE

A.T.&T.
ATTN: MR. STEVE PESOLA
1000 COMMERCE DRIVE, FLOOR 2
OAKBROOK, IL 60523
(630) 573-6447

VILLAGE OF MINOOKA

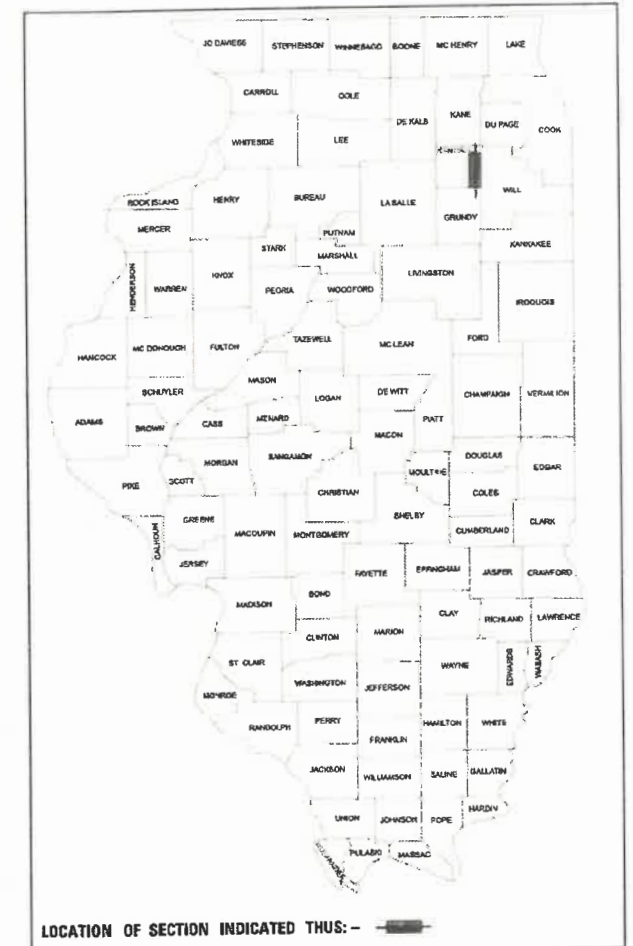
ATTN: RYAN ANDERSON
121 MCEVILLY RD
MINOOKA, IL 60447
(815) 467-8868

COMCAST

ATTN: MARTHA GIERAS
688 INDUSTRIAL DRIVE
ELMHURST, IL 60126
(630) 600-6352

NICOR

1844 FERRY RD
NAPERVILLE, IL 60563
(630) 388-2362



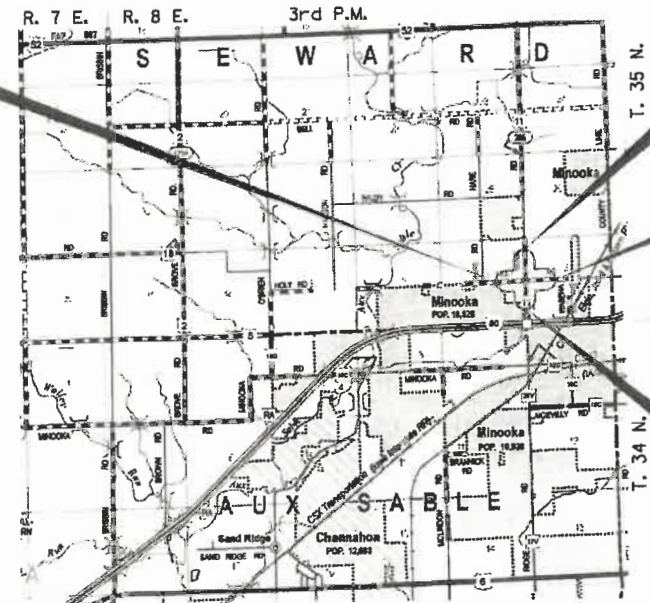
DESIGN CLASSIFICATION:
CH 11 (RIDGE RD): MINOR ARTERIAL
ADT = 11,300 (2019)
HOLT RD (WEST LEG): MINOR COLLECTOR
ADT = 500 (2019)
HOLT RD (EAST LEG): MAJOR COLLECTOR
ADT = 1,800 (2019)

**IMPROVEMENT BEGINS
HOLT RD
STATION 43+72**

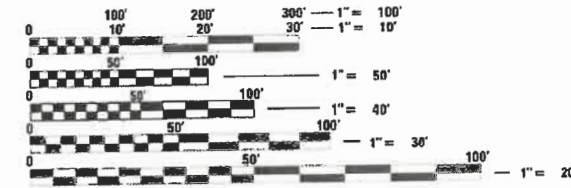
**IMPROVEMENT ENDS
CH 11 (RIDGE RD)
STATION 1043+83**

**IMPROVEMENT ENDS
HOLT RD
STATION 56+27**

**IMPROVEMENT BEGINS
CH 11 (RIDGE RD)
STATION 1031+23**



**LOCATION MAP
NOT TO SCALE**

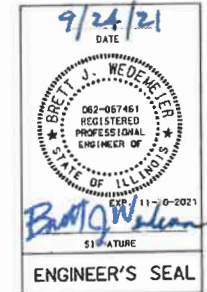


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT GROSS AND NET LENGTH:
RIDGE ROAD = 1260 FT. = 0.24 MILE
HOLT ROAD = 1255 FT. = 0.24 MILE

**PROJECT ENGINEER BRETT WEDEMEIER
PROJECT MANAGER WAYNE PHILLIPS**



KENDALL COUNTY HIGHWAY DEPARTMENT
APPROVED *October 8, 2021*
Joe C. Klein
KENDALL COUNTY ENGINEER

Illinois Professional Design Firm # 184-000825
Hutchison Engineering, Inc.
Jacksonville - Moline - Peoria - Shorewood
Since 1945

TRAFFIC SIGNAL GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.
2. ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS.
3. ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL HAVE POLYCARBONATE BLACK HOUSING AND STEEL OR ALUMINUM BRACKETS.
4. TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED TRAFFIC SIGNAL PAY ITEMS.
5. A 1/4" DIAMETER CONTINUOUS RODENT RESISTANT NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER. THIS COST SHALL BE INCLUDED IN THE COST OF CONDUIT PAY ITEM.
6. THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON. COST TO BE INCLUDED IN THE TRAFFIC SIGNAL CONTROLLER PAY ITEM.
7. ALL CONDUIT IN TRENCH SHALL BE PVC. GALVANIZED STEEL OR SCHEDULE 80 SHALL BE USED UNDER PAVEMENT, STABILIZED SHOULDER, PAVED MEDIAN, PAVED DRIVEWAY, CURB AND/OR GUTTER, AND SIDEWALK. CONDUIT ATTACHED TO STRUCTURES SHALL BE GALVANIZED STEEL.
8. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT A GREATER THAN 2' MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
9. THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.
10. ALL THREADS OF BOLTS USED IN THE ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.
11. ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED, CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.
12. ALL TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN HANDHOLE AND JUNCTION BOXES WILL NOT BE ALLOWED.
13. THE CONTROLLER CABINET SHALL BE PLACED SO THAT A TECHNICIAN MAY SEE THE INTERSECTION OVER THE TOP OF THE CABINET WHILE WATCHING THE COMPONENTS IN THE CABINET.
14. THE PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE FURNISHED WITH A MANUAL CONTROL SWITCH AND MANUAL CONTROL CHORD WITHIN THE POLICE DOOR COMPARTMENT. THIS WORK SHALL BE INCLUDED IN THE CONTROLLER CABINET PAY ITEM.
15. THE CONTRACTOR SHALL PROVIDE A SELF-ADHERED PHASE DIAGRAM ON THE INSIDE OF THE CONTROLLER CABINET DOOR.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNALS. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATION.
17. THE ELEVATION OF THE TOP OF THE DOUBLE HANDHOLE SHALL BE LESS THAN THE ELEVATION OF THE TOP OF THE CONTROLLER FOUNDATION. THE DOUBLE HANDHOLES INSTALLED CLOSED TO THE ROADWAY SHALL OPEN UP TOWARDS THE ROADWAY SO THE ELECTRICAL MAINTAINER IS NOT EXPOSED TO TRAFFIC WHEN WORKING.
18. ALL UNINTERRUPTIBLE POWER SUPPLIES SHALL BE EQUIPPED WITH ALPHA GUARD MONITORS.
19. ALL GROUNDING MATERIALS FOR CONCRETE FOUNDATIONS SHALL REFER TO SECTION 806 OF THE STANDARD SPECIFICATIONS.
20. ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED WITH SEED OR SOD TO THE SATISFACTION OF THE ENGINEER. SEEDING OR SODDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION.
21. THE SURGE PROTECTOR IN THE CONTROLLER CABINET SHALL HAVE AN INDICATOR LIGHT.
22. THE MAST ARM FOUNDATIONS SHALL BE LOCATED A MINIMUM 6' FROM THE FACE OF THE CURB OR A MINIMUM OF 18' FROM THE EDGE OF PAVEMENT TO THE FACE OF THE FOUNDATION WHERE THERE IS NO CURB, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IN CURB AREA, GET MORE THAN 6' IF POSSIBLE IF THE SIGNAL HEAD STILL LINES UP IN THE CENTER OF LANE.
23. ONE WEEK PRIOR TO SIGNAL TURN-ON FOR ALL DIRECTIONS, THE CHANGEABLE MESSAGE SIGNS SHOULD READ "NEW SIGNAL AHEAD / TURN ON DATE" FOR THREE WEEKS. AFTER THE SIGNALS ARE TURNED ON THE MESSAGE SIGN SHOULD READ "NEW SIGNAL AHEAD / BE PREPARED TO STOP", FOR FOUR WEEKS.
24. ALL MAST ARM MOUNTED SIGNAL HEADS ON AN INDIVIDUAL MAST ARM SHALL BE MOUNTED SO THAT THE RED INDICATIONS ARE LEVEL WITH EACH OTHER.
25. ALL SIGNAL HEADS SHALL HAVE BACKPLATES. BACKPLATES SHALL BE POLYCARBONATE, LOUVERED FORMED BACKPLATES WITH FLUORESCENT YELLOW SHEETING.

SIGNING REMOVAL AND RELOCATE						
STATION	SIDE	SIGN DESCRIPTION	SIGN SIZE		REMOVE SIGN PANEL ASSEMBLY - TYPE A	REMOVE SIGN PANEL - TYPE 1
			WIDTH	HEIGHT		
			INCHES		EACH	SQ FT
CH 11 (RIDGE RD)						
1031+70	RT	INTERSECTION AHEAD	30	30	1	
		HOLT RD	12	8		
1037+07	LT	STOP	36	36	1	
1037+97	RT	STOP	36	36	1	
1044+00	LT	INTERSECTION AHEAD	30	30		6.25
		HOLT RD	12	8		0.67
HOLT RD						
44+00	RT	STOP AHEAD	30	30		6.25
55+60	LT	STOP AHEAD	30	30		6.25
TOTAL					3	20

NOTE: SIGN PANELS TO BE REMOVED SHALL BE SALVAGED AND RETURNED TO KENDALL COUNTY HIGHWAY DEPARTMENT.

SIGN PANEL AND SIGN SUPPORTS					
LOCATION		SIGN DESIGNATION	SIGN PANEL	SIGN PANEL	WOOD SIGN SUPPORT
STATION	SIDE		TYPE 1	TYPE 2	
			SQ FT	SQ FT	FOOT
CH 11 (RIDGE RD)					
1031+03	RT	W3-3	6.25		13.5
		W16-8P	1.88		
1035+03	RT	R3-8b		10.00	25.0
1044+00	LT	W3-3	6.25		
		W16-8P	1.88		
HOLT RD					
44+00	RT	W3-3	6.25		
		W16-8P	1.88		
55+60	LT	W3-3	6.25		
		W16-8P	1.88		
TOTAL			32.52	10.00	38.5
TOTAL			33	10	39

MODIFIED URETHANE PAVEMENT MARKING		
STATION	SIDE	LINE
		24"
		SOLID
		WHITE
		FOOT
CH 11 (RIDGE RD)		
1036+87	RT	46
1038+20	LT	45
TOTAL		91

HIGHWAY STANDARDS

701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600 MM) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5M) AWAY
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720016-04	MAST ARM MOUNTED STREET NAME SIGNS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
821101-02	LUMINAIRE WIRING IN POLE
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTIBLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-08	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877011-10	STEEL COMB. MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

KENDALL COUNTY HIGHWAY DEPARTMENT

CH 11 (RIDGE RD) LIST OF STANDARDS, GENERAL NOTES, AND SCHEDULES

USER NAME = BWedemeyer	DESIGNED -	REVISED -	KENDALL COUNTY HIGHWAY DEPARTMENT	CH 11 (RIDGE RD) LIST OF STANDARDS, GENERAL NOTES, AND SCHEDULES	RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN -	REVISED -			CH 11	21-00163-00-TL	KENDALL	15	2	
PLOT SCALE = 2,000' / 1"l	CHECKED -	REVISED -			CONTRACT NO.					
PLOT DATE = 9/1/2021	DATE -	REVISED -			SCALE: N/A	SHEET OF SHEETS	STA. TO STA.	ILLINOIS		

SUMMARY OF QUANTITIES

ITEM NO.	SPECIALTY ITEM &/OR SPECIAL PROVISION	CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	ITEM NO.	SPECIALTY ITEM &/OR SPECIAL PROVISION	CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
1	SP	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	40	SP	X0325476	RADAR VEHICLE DETECTION SYSTEM	EACH	1
2		72000100	SIGN PANEL - TYPE 1	SQ FT	71	41	SP	X0325839	SIGNAL TIMING	L SUM	1
3		72000200	SIGN PANEL - TYPE 2	SQ FT	10	42	SP	X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
4		72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	3	43	SP	X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	193
5		72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	28	44	SP	X1400318	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC, SPECIAL	EACH	20
6		73000100	WOOD SIGN SUPPORT	FOOT	39	45	SP	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
7		78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	91	46	SP	X8250091	COMBINATION LIGHTING CONTROLLER	EACH	1
8	SP	80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1	47	SP	X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
9		81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	330	48	SP	X8950305	REMOVE EXISTING SIGNAL HEAD	EACH	2
10		81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	57	49	SP	XX007251	INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
11		81028360	UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	99	50	SP	XX008608	CABLE, SPECIAL	FOOT	908
12		81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	151	51		Z0013798	CONSTRUCTION LAYOUT	L SUM	1
13		81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	16	52	SP	Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	4
14		81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2						
15	SP	81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2						
16		81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1446						
17	SP	82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	4						
18	SP	86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1						
19		87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	358						
20		87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2016						
21		87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2167						
22		87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	137						
23		87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	810						
24		87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4						
25		87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	4						
26		87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20						
27		87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4						
28		87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52						
29		88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3						
30		88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5						
31		88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	5						
32		88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	5						
33		88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1						
34		88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1						
35		88700090	CONFIRMATION BEACON	EACH	4						
36		88700200	LIGHT DETECTOR	EACH	4						
37		88700300	LIGHT DETECTOR AMPLIFIER	EACH	1						
38		89502200	MODIFY EXISTING CONTROLLER	EACH	1						
39	SP	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	358						
40	SP	X0325476	RADAR VEHICLE DETECTION SYSTEM	EACH	1						

SP=SPECIAL PROVISION SI=SPECIALITY ITEM BDE=BUREAU OF DESIGN AND ENVIRONMENT GBSP=GUIDE BRIDGE SPECIAL PROVISION

USER NAME = BWedemeyer	DESIGNED -	REVISED -	KENDALL COUNTY HIGHWAY DEPARTMENT	CH 11 (RIDGE RD) SUMMARY OF QUANTITIES		RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 2,000' = 1" IN.	DRAWN -	REVISED -				CH 11	21-00163-00-TL	KENDALL	15	3
PLOT DATE = 9/1/2021	CHECKED -	REVISED -				CONTRACT NO.				
	DATE -	REVISED -				SCALE: N/A	SHEET OF SHEETS	STA. TO STA.	ILLINOIS	

MODEL: D:\ch11 - Ridge and Hill - Signal\CADD Sheets\440163-00.dgn

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

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

MODEL: D:\data\...
FILE NAME: ...

USER NAME = BWedemeyer	DESIGNED -	REVISED -	
DRAWN -	REVISIONS -		
PLOT SCALE = 2,000' = 1" IN.	CHECKED -	REVISED -	
PLOT DATE = 9/1/2021	DATE -	REVISED -	

**KENDALL COUNTY
HIGHWAY DEPARTMENT**

**CH 11 (RIDGE RD)
TRAFFIC SIGNAL LEGEND**

SCALE: N/A SHEET 1 OF 12 SHEETS STA. TO STA.

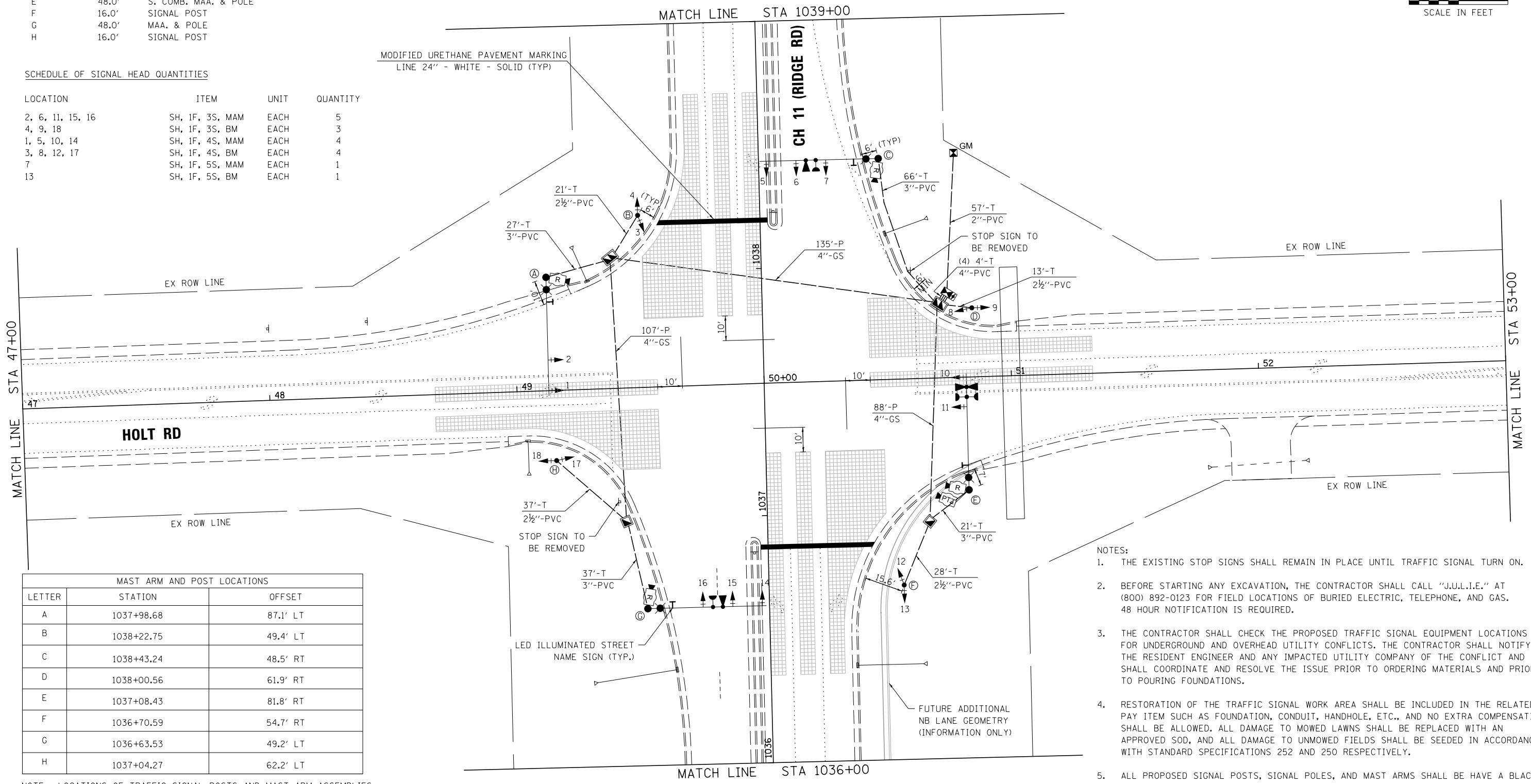
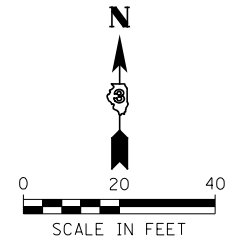
RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	21-00163-00-TL	KENDALL	15	4
CONTRACT NO.				
ILLINOIS				

SCHEDULE OF POLE/MAST ARM ASSEMBLIES

LOCATION	LENGTH	
A	48.0'	S. COMB. MAA. & POLE
B	16.0'	SIGNAL POST
C	48.0'	MAA. & POLE
D	16.0'	SIGNAL POST
E	48.0'	S. COMB. MAA. & POLE
F	16.0'	SIGNAL POST
G	48.0'	MAA. & POLE
H	16.0'	SIGNAL POST

SCHEDULE OF SIGNAL HEAD QUANTITIES

LOCATION	ITEM	UNIT	QUANTITY
2, 6, 11, 15, 16	SH, 1F, 3S, MAM	EACH	5
4, 9, 18	SH, 1F, 3S, BM	EACH	3
1, 5, 10, 14	SH, 1F, 4S, MAM	EACH	4
3, 8, 12, 17	SH, 1F, 4S, BM	EACH	4
7	SH, 1F, 5S, MAM	EACH	1
13	SH, 1F, 5S, BM	EACH	1



MAST ARM AND POST LOCATIONS		
LETTER	STATION	OFFSET
A	1037+98.68	87.1' LT
B	1038+22.75	49.4' LT
C	1038+43.24	48.5' RT
D	1038+00.56	61.9' RT
E	1037+08.43	81.8' RT
F	1036+70.59	54.7' RT
G	1036+63.53	49.2' LT
H	1037+04.27	62.2' LT

NOTE: LOCATIONS OF TRAFFIC SIGNAL POSTS AND MAST ARM ASSEMBLIES MAY BE CHANGED IN THE FIELD AS NECESSARY TO AVOID UTILITIES. THE NEW LOCATIONS SHALL BE COORDINATED WITH THE ENGINEER AND APPROVED BY THE DISTRICT TRAFFIC SIGNAL SECTION TO ENSURE THE NEW LOCATIONS MEET OPERATIONAL OFFSET/CLEAR ZONE REQUIREMENTS AND MAINTAIN PROPER POSITION OF SIGNAL HEADS IN RELATION TO THE TRAVELED LANES.

- NOTES:
1. THE EXISTING STOP SIGNS SHALL REMAIN IN PLACE UNTIL TRAFFIC SIGNAL TURN ON.
 2. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS. 48 HOUR NOTIFICATION IS REQUIRED.
 3. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR UNDERGROUND AND OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND ANY IMPACTED UTILITY COMPANY OF THE CONFLICT AND SHALL COORDINATE AND RESOLVE THE ISSUE PRIOR TO ORDERING MATERIALS AND PRIOR TO POURING FOUNDATIONS.
 4. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.
 5. ALL PROPOSED SIGNAL POSTS, SIGNAL POLES, AND MAST ARMS SHALL BE HAVE A BLACK POWDER COAT FINISH. COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED TRAFFIC SIGNAL PAY ITEMS.
 6. THE MOUNTING LOCATIONS OF THE RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
 7. NEW SERVICE CONNECTION TO EXISTING POLE TO BE COORDINATED WITH COMED.

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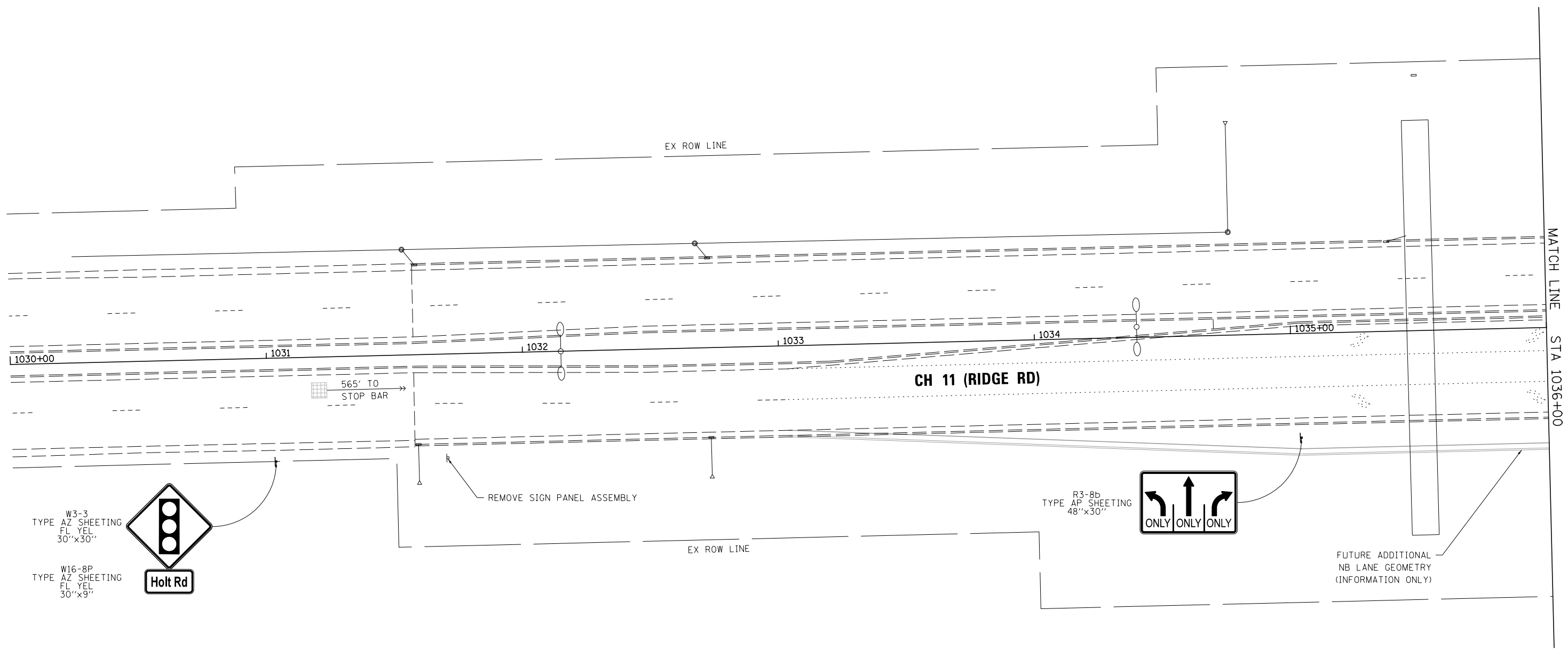
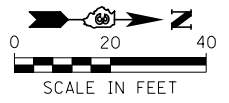
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PLOT SCALE = 40,0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 9/1/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**KENDALL COUNTY
HIGHWAY DEPARTMENT**

**CH 11 (RIDGE RD) AT HOLT RD
TRAFFIC SIGNAL PLAN**

SCALE: 1"=20' SHEET 2 OF 12 SHEETS STA. TO STA.

RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	21-00163-00-TL	KENDALL	15	5
CONTRACT NO.			ILLINOIS	



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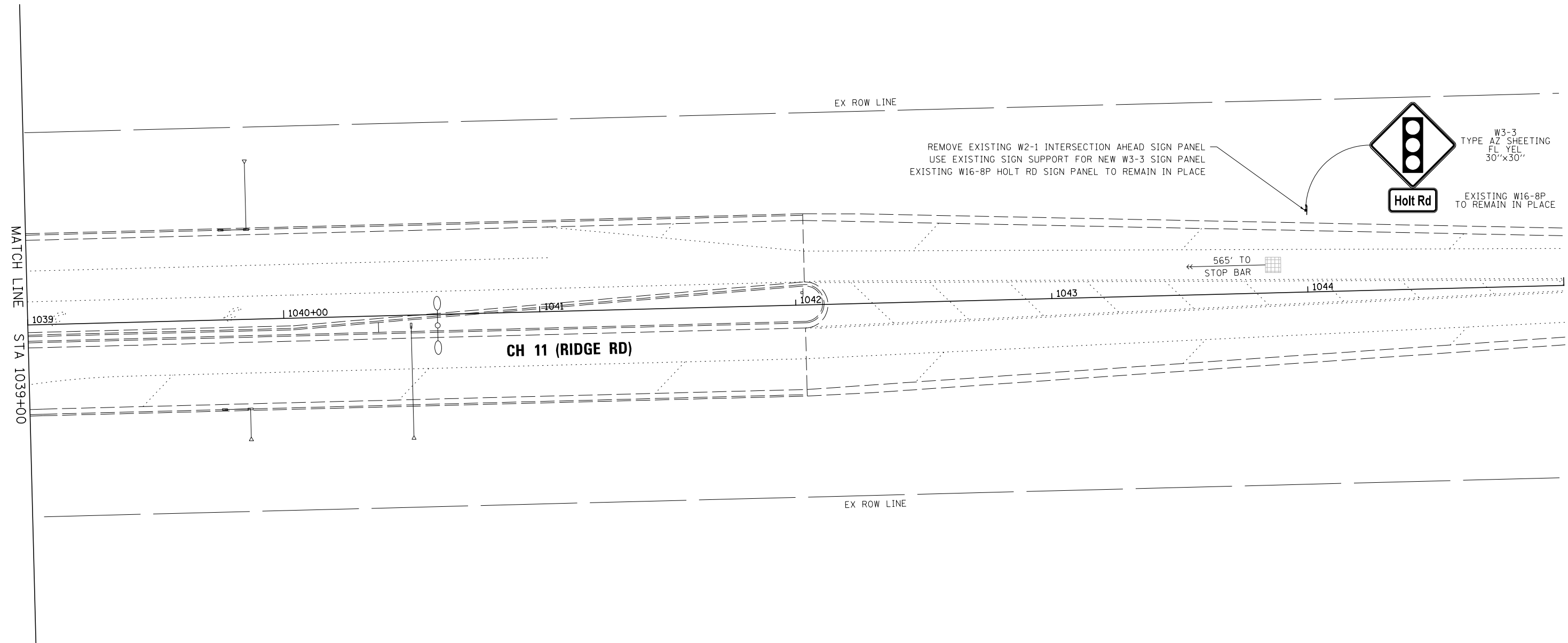
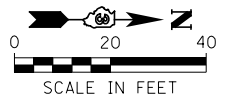
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	DRAWN -	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 9/1/2021	DATE -	REVISED -

**KENDALL COUNTY
HIGHWAY DEPARTMENT**

**CH 11 (RIDGE RD)
TRAFFIC SIGNAL PLAN**

SCALE: 1"=20' SHEET 3 OF 12 SHEETS STA. 1030+00 TO STA. 1036+00

RTE. NO. CH 11	SECTION 21-00163-00-TL	COUNTY KENDALL	TOTAL SHEETS 15	SHEET NO. 6
CONTRACT NO.			ILLINOIS	



MODEL: D:\ch11 - Ridge and Holt Streets\CADD Sheets\4401ch11tbl-4.dgn
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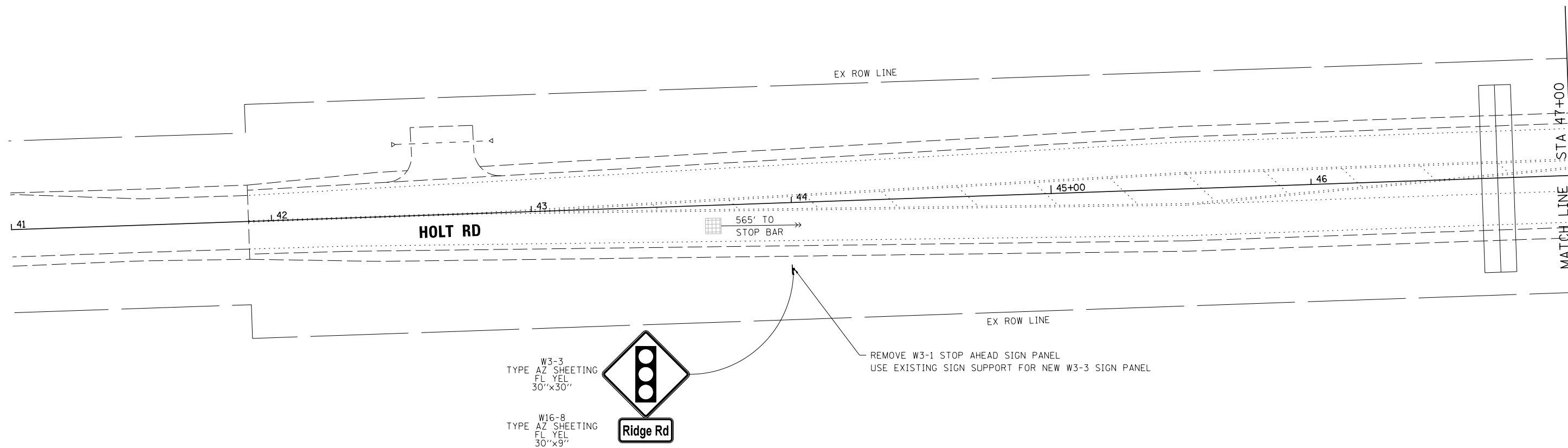
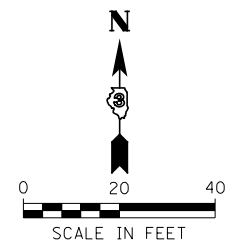
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	DRAWN -	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 9/1/2021	DATE -	REVISED -

**KENDALL COUNTY
 HIGHWAY DEPARTMENT**

**CH 11 (RIDGE RD)
 TRAFFIC SIGNAL PLAN**

SCALE: 1"=20' SHEET 5 OF 12 SHEETS STA. 1039+00 TO STA. 1045+00

RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	21-00163-00-TL	KENDALL	15	7
CONTRACT NO.				
ILLINOIS				



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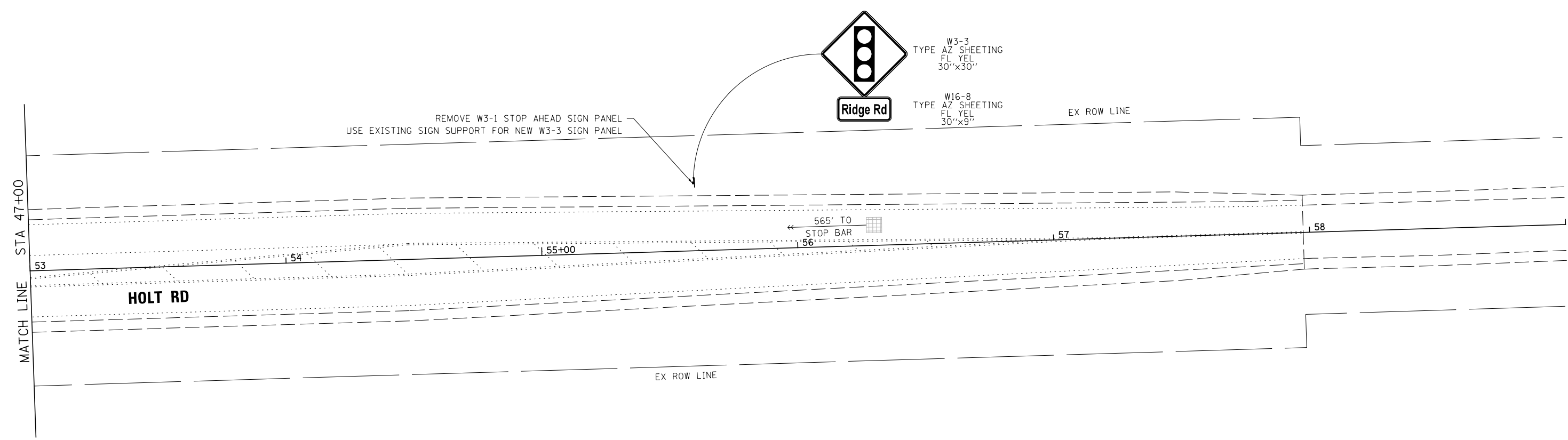
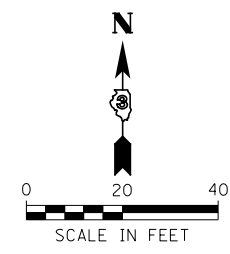
USER NAME = BWedemeyer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 9/1/2021	DATE -	REVISED -

**KENDALL COUNTY
HIGHWAY DEPARTMENT**

**HOLT ROAD
TRAFFIC SIGNAL PLAN**

SCALE: 1"=20' SHEET 6 OF 12 SHEETS STA. 41+00 TO STA. 47+00

RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	21-00163-00-TL	KENDALL	15	8
CONTRACT NO.				
ILLINOIS				



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	DRAWN -	REVISED -
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PLOT DATE = 9/1/2021	DATE -	REVISED -

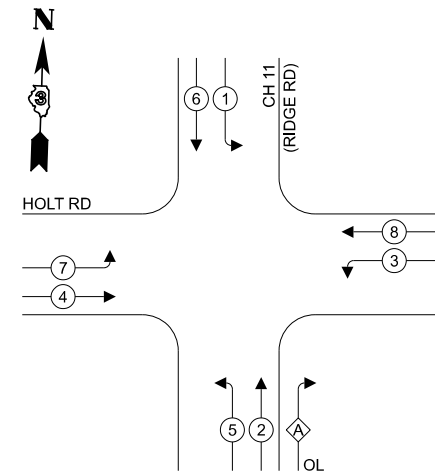
**KENDALL COUNTY
HIGHWAY DEPARTMENT**

**HOLT ROAD
TRAFFIC SIGNAL PLAN**

SCALE: 1"=20' SHEET 7 OF 12 SHEETS STA. 53+00 TO STA. 59+00

RTE. NO. CH 11	SECTION 21-00163-00-TL	COUNTY KENDALL	TOTAL SHEETS 15	SHEET NO. 9
CONTRACT NO.			ILLINOIS	

PHASE DESIGNATION DIAGRAM



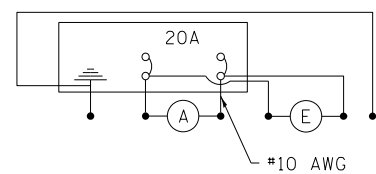
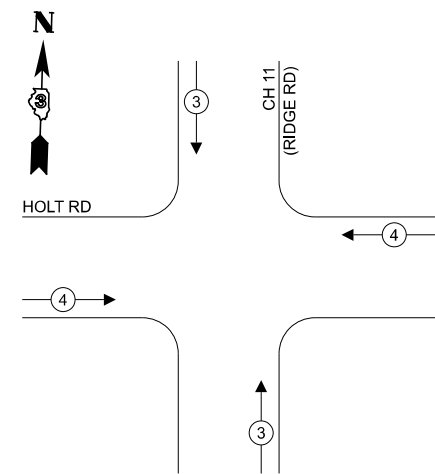
LEGEND:

- ← ⊙ — PROTECTED PHASE
- ← ⊙ — PROTECTED/PERMITTED PHASE
- ← ⊙ OL — OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PROTECTED PHASE
A	3

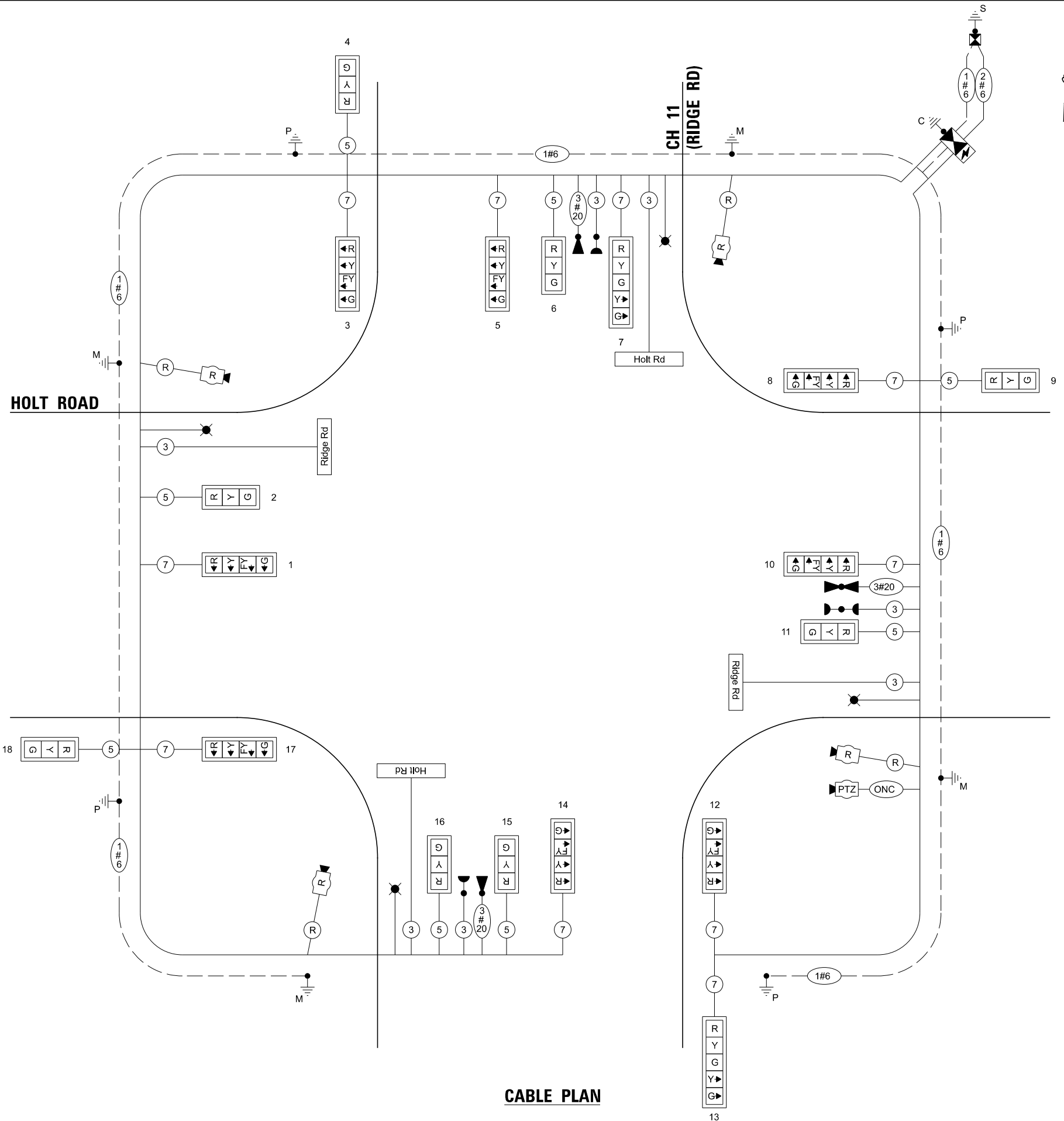
PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LIGHTING CIRCUIT DIAGRAM

AGENCY RESPONSIBLE FOR ENERGY CHARGES:
KENDALL COUNTY HIGHWAY DEPARTMENT

CONTRACTOR PAYS ALL ENERGY CHARGES
UNTIL PROJECT IS ACCEPTED.



CABLE PLAN

**KENDALL COUNTY
HIGHWAY DEPARTMENT**

**CH 11 (RIDGE RD) & HOLT RD
PHASE DIAGRAM, CABLE PLAN & LIGHTING CIRCUIT DIAGRAM**

USER NAME = BWedemeyer	DESIGNED -	REVISED -
PLOT SCALE = 40,000' / 1"	DRAWN -	REVISED -
PLOT DATE = 9/1/2021	CHECKED -	REVISED -
	DATE -	REVISED -

SCALE: N/A SHEET 8 OF 12 SHEETS STA. TO STA.

RTE. NO. CH 11	SECTION 21-00163-00-TL	COUNTY KENDALL	TOTAL SHEETS 15	SHEET NO. 10
CONTRACT NO.			ILLINOIS	

ELECTRICAL LOAD CHART

CH 11 (RIDGE RD)			
INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	6	11	50
YELLOW	6	20	5
GREEN	6	12	45
ARROW-EXCEPT FY	16	10	50
ARROW-FY	4	12	50
STREET NAME SIGN	2	120	50
RADAR SYSTEM	2	3.7	100
PTZ	1	60	100

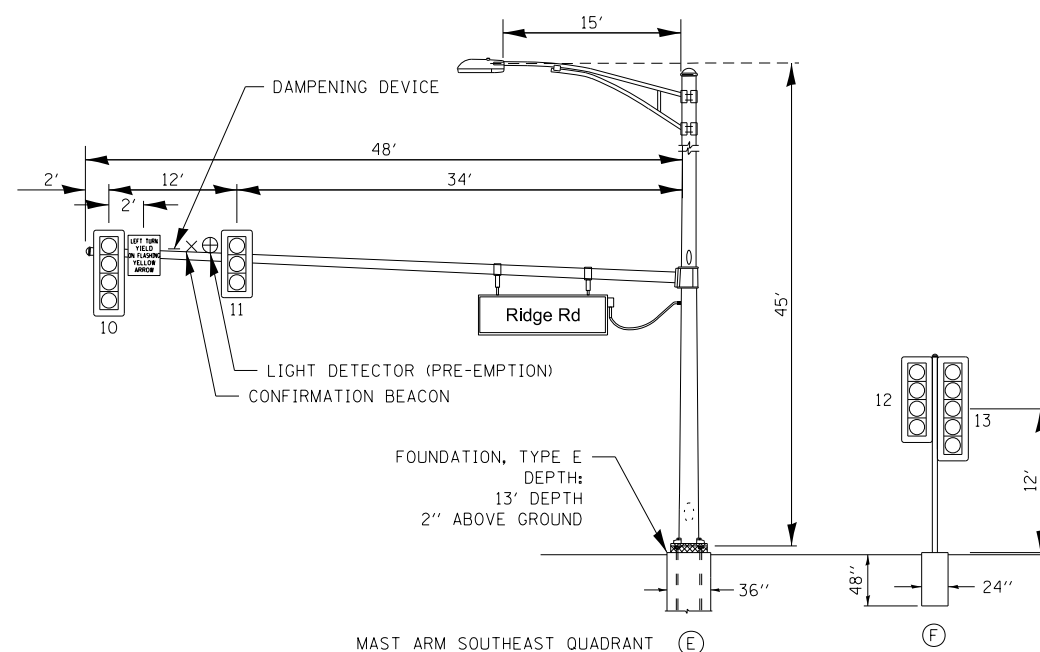
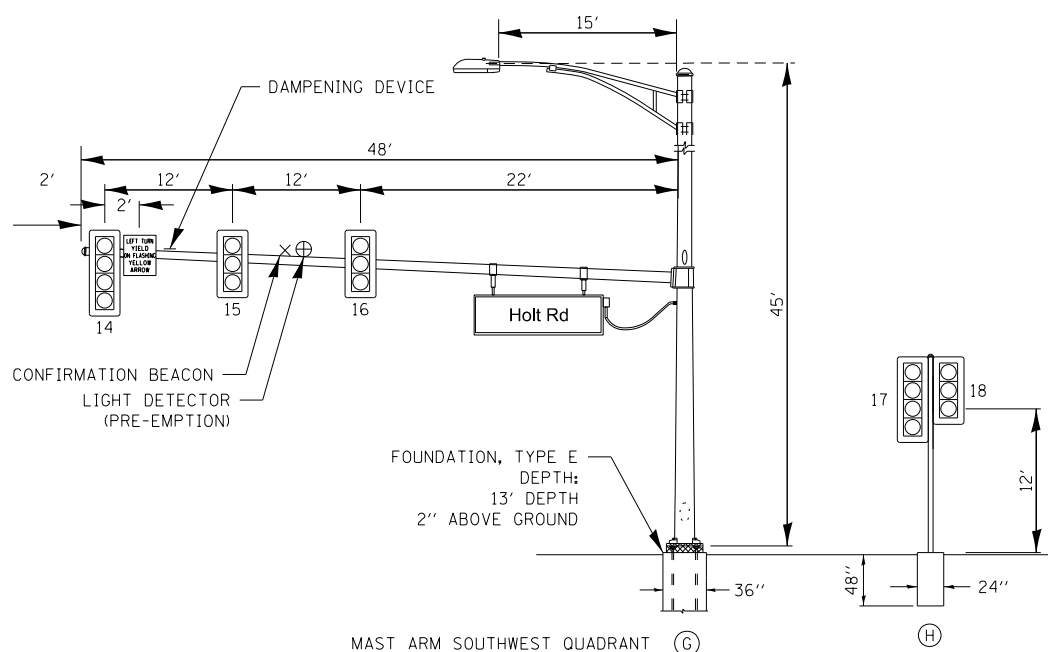
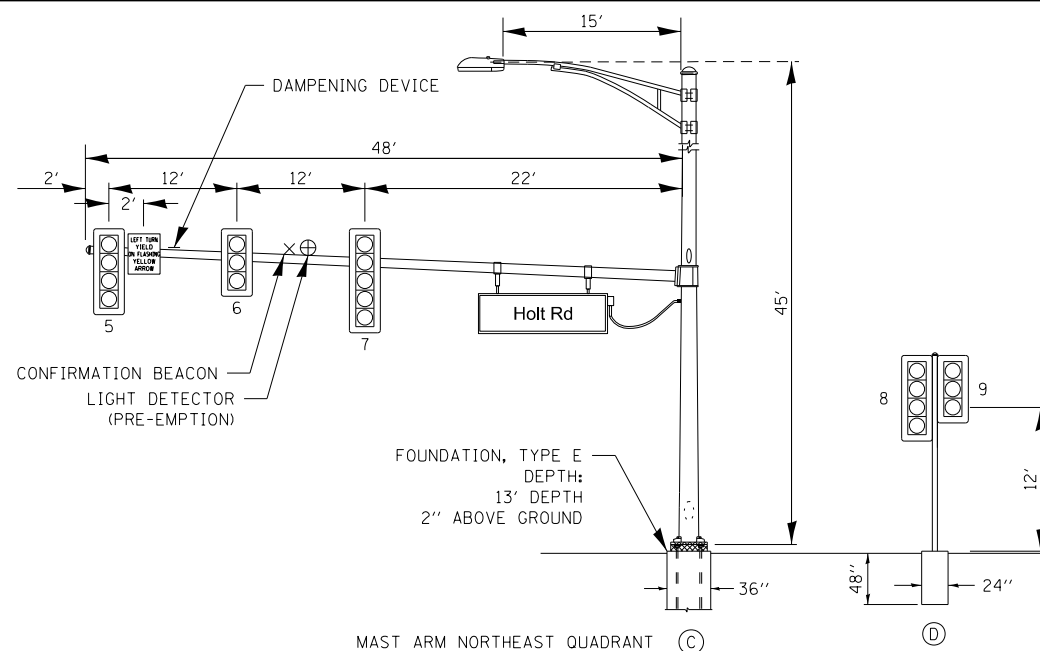
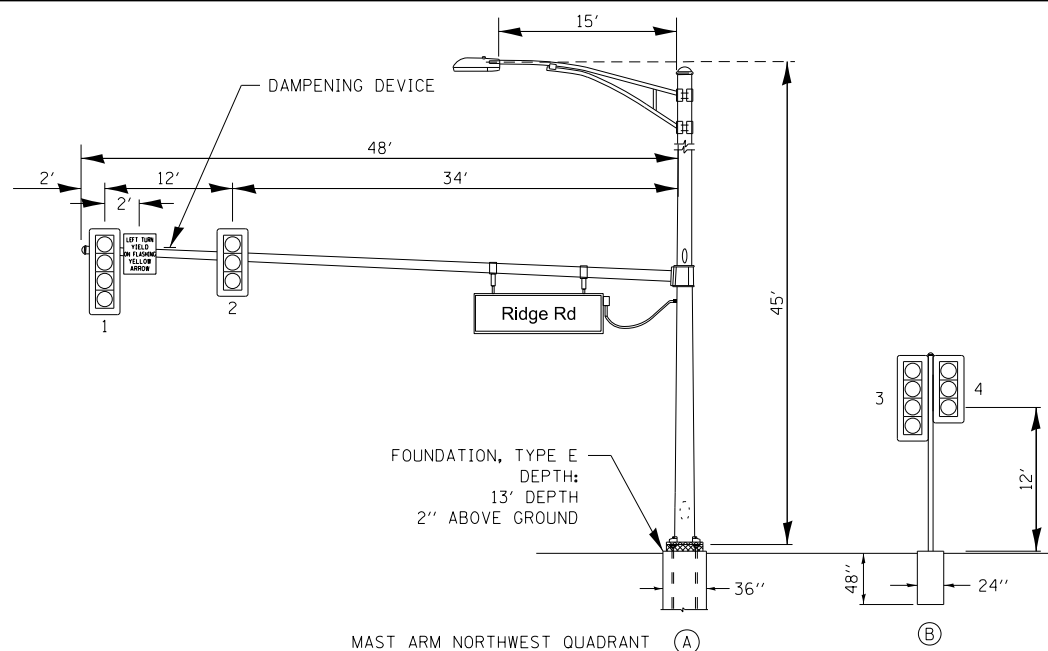
HOLT RD			
INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	4	11	50
YELLOW	4	20	5
GREEN	4	12	45
ARROW-EXCEPT FY	12	10	50
ARROW-FY	4	12	50
STREET NAME SIGN	2	120	50
RADAR SYSTEM	2	3.7	100

TRAFFIC SIGNAL CABINET			
ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	100	100
UPS	1	50	100

HIGHWAY LIGHTING			
ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100
LUMINAIRE	2	194	45

NOTES:

- WORD "GRADE" IS TO BE INTERPRETED AS TOP OF CURB. TOP OF FOUNDATION SHALL NOT BE EXPOSED MORE THAN 4" ABOVE THE SURROUNDING GROUND.
- ALL SIGNAL HEADS SHALL HAVE RETROREFLECTIVE, LOUVERED BACKPLATES.
- FOUNDATION SHOULD BE 2" ABOVE GROUND OR 1" ABOVE CENTERLINE OF ROADWAY, WHICHEVER IS HIGHER.
- THE ENERGY CHARGES ARE THE RESPONSIBILITY OF KENDALL COUNTY AND THE BILL SHOULD BE SET UP UNDER THEIR NAME.

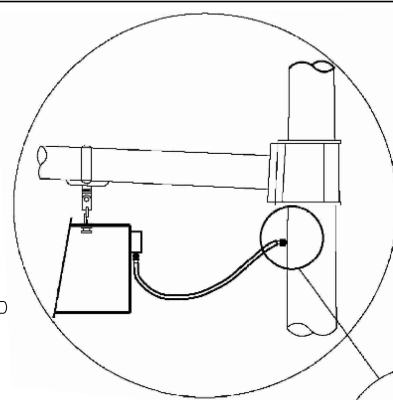
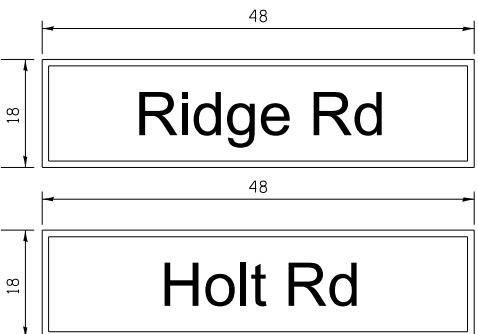


ILLUMINATED MAST ARM MOUNTED

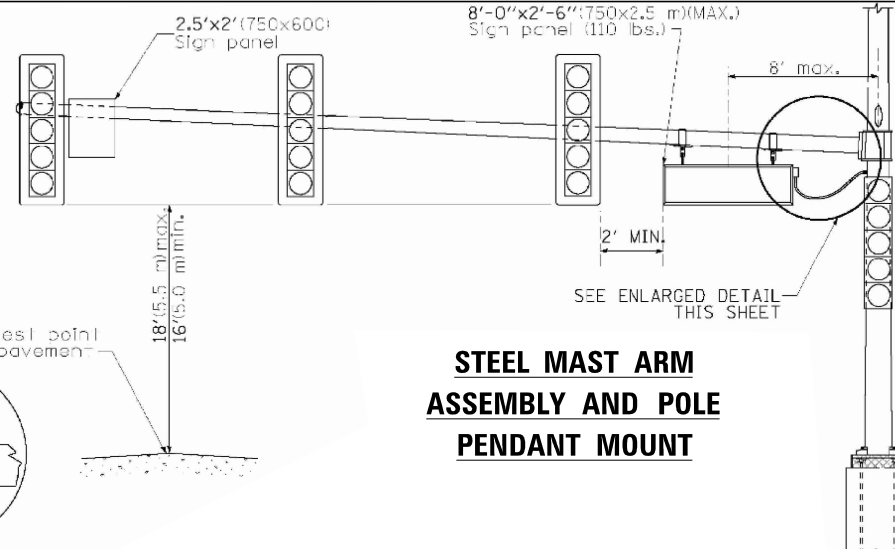
STREET NAME SIGN

THESE STREET NAME SIGNS SHALL BE PLACED ON THE MAST ARMS PARALLEL TO THE RESPECTIVE ROUTE. SEE SPECIAL PROVISIONS FOR MORE INFORMATION.

SERIES D LETTERS - 8" UPPER CASE, 6" LOWER CASE

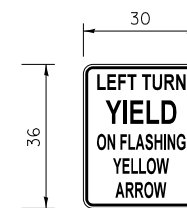


L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL FOR PENDANT MOUNT



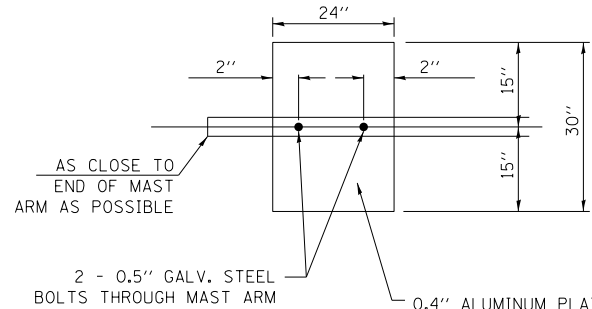
STEEL MAST ARM ASSEMBLY AND POLE PENDANT MOUNT

STREET SIGN DETAIL



7.50 SQ. FT. EACH
4 REQUIRED
TYPE AP SHEETING REQUIRED

NOTE: DAMPENING DEVICE SHALL CONSIST OF A 24" x 30" TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



DAMPENING PLATE DETAIL

(TOP VIEW) INCLUDED IN COST OF MAST ARM

KENDALL COUNTY HIGHWAY DEPARTMENT

CH 11 (RIDGE RD) & HOLT RD PROPOSED MAST ARM LOADING DIAGRAM & SIGN DETAILS

SCALE: N/A SHEET 9 OF 12 SHEETS STA. TO STA.

RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	21-00163-00-TL	KENDALL	15	11

CONTRACT NO. ILLINOIS

USER NAME = BWedemeyer	DESIGNED -	REVISED -
PLOT SCALE = 40,0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 9/1/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**C.H. 11 (RIDGE RD) AND HOLT RD INTERSECTION
TRAFFIC SIGNAL SCHEDULE OF QUANTITIES**

DESCRIPTION	UNIT	TOTAL QUANTITY
SIGN PANEL - TYPE 1	SQ FT	30
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	330
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	57
UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	99
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	151
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	16
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2
DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1446
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	4
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	358
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2016
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2167
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	137
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	810
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	4
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
CONFIRMATION BEACON	EACH	4
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	358
RADAR VEHICLE DETECTION SYSTEM	EACH	1
SIGNAL TIMING	L SUM	1
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
OUTDOOR RATED NETWORK CABLE	FOOT	193
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC, SPECIAL	EACH	18
COMBINATION LIGHTING CONTROLLER	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
CABLE, SPECIAL	FOOT	908
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	4

MODEL: D:\ch11 - Ridge and Holt Signal\CADD Sheets\ch11-12.dwg
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USER NAME = BWedemeyer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 9/1/2021	DATE -	REVISED -

**KENDALL COUNTY
HIGHWAY DEPARTMENT**

**CH 11 (RIDGE RD) & HOLT RD
SCHEDULE OF QUANTITIES**

SCALE: N/A SHEET 10 OF 12 SHEETS STA. TO STA.

RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	21-00163-00-TL	KENDALL	15	12
CONTRACT NO.				
ILLINOIS				



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING B-01

Sheet 1 of 1

Rubino Job No.: G21.103	Drilling Method: 3/4 Hollow Stem Auger	WATER LEVELS***	
Project: Ridge Rd and Holt Rd Traffic Signals	Sampling Method: Split Spoon	While Drilling	N/A
Location: Intersection of Ridge Road and Holt Road	Hammer Type: Automatic	Upon Completion	N/A
City, State: Kendall County, Illinois	Boring Location: NW corner of intersection	Delay	N/A
Client: Hutchinson Engineering, Inc.			

Elevation (feet)	Depth (feet)	Graphic Log	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch	Moisture, %	STRENGTH, tsf	Additional Remarks
0	0				Approximately 18 inches of TOPSOIL: black silty clay, with roots and organic matter					
	1		1	14	Medium stiff, brown and gray silty CLAY, trace sand and gravel	CL	1-3-3 N=6	27	Qp=1.5 tsf Qi = 1.4 tsf 2% Organic Content	
	2		2	16		CL	1-2-5 N=7	26	Qi = 1.2 tsf Qp=1.5 tsf 2% Organic Content	
	3		3	16	Stiff to very stiff, brown and gray silty CLAY, trace sand and gravel	CL	3-6-10 N=16	21	>> Qp=4.5 tsf Qi = 9.8 tsf	
	4		4	14		CL	3-5-8 N=13	22	>> Qp=4.5 tsf Qi = 5.3 tsf	
	5		5	16		CL	3-5-8 N=13	22	>> Qp=4.5 tsf Qi = 5.8 tsf	
	6		6	16		CL	3-4-7 N=11	25	>> Qp=4.5 tsf Qi = 4.2 tsf 3% Organic Content	
	7		7	14		CL	3-4-7 N=11	25	>> Qp=4.5 tsf Qi = 4.3 tsf 3% Organic Content	
	8		8	10	Medium stiff to stiff, gray silty CLAY, trace sand and gravel	CL	2-3-4 N=7	25	Qp=2.0 tsf Qi = 2.4 tsf 2% Organic Content	
	9		9	18		CL	3-3-5 N=8	22	Qp=2.5 tsf Qi = 2.4 tsf	
	10		10	18		CL	2-3-5 N=8	22	Qp=2.5 tsf Qi = 2.0 tsf	
	25				End of boring at approximately 25 feet below existing grade.					

Completion Depth: 25.0 ft	Sample Types: <input type="checkbox"/> Pressuremeter	Latitude: 41.469641
Date Boring Started: 6/28/21	<input checked="" type="checkbox"/> Auger Cutting	Longitude: -88.272222
Date Boring Completed: 6/28/21	<input checked="" type="checkbox"/> Split-Spoon	Drill Rig: Geoprobe 7822DT
Logged By: J.W.	<input type="checkbox"/> Hand Auger	Remarks:
Drilling Contractor: Rubino Engineering, Inc.	<input type="checkbox"/> Rock Core	
	<input type="checkbox"/> No Recovery	

The stratification lines represent approximate boundaries. The transition may be gradual.
***Please reference the geotechnical report text for specific groundwater / dewatering recommendations.



Rubino Engineering, Inc.
425 Shepard Drive
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING B-02

Sheet 1 of 1

Rubino Job No.: G21.103	Drilling Method: 3/4 Hollow Stem Auger	WATER LEVELS***	
Project: Ridge Rd and Holt Rd Traffic Signals	Sampling Method: Split Spoon	While Drilling	N/A
Location: Intersection of Ridge Road and Holt Road	Hammer Type: Automatic	Upon Completion	N/A
City, State: Kendall County, Illinois	Boring Location: NE corner of intersection	Delay	N/A
Client: Hutchinson Engineering, Inc.			

Elevation (feet)	Depth (feet)	Graphic Log	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch	Moisture, %	STRENGTH, tsf	Additional Remarks
0	0				FILL: brown silty clay, with gravel					
	1		1	9	FILL: dark brown silty clay, trace sand and gravel		2-3-3 N=6	28	Qp=1.8 tsf Qi = 1.2 tsf 5% Organic Content	
	2		2	14	Medium stiff, black silty CLAY, trace sand and gravel	CL	0-2-2 N=4	35	Qp=1.3 tsf Qi = 1.3 tsf 7% Organic Content	
	3		3	16	Medium stiff, brown and gray silty CLAY, trace sand and gravel	CL	2-3-4 N=7	27	Qp=2.0 tsf Qi = 1.7 tsf 2% Organic Content	
	4		4	18		CL	1-2-3 N=5	30	Qp=2.0 tsf Qi = 1.3 tsf 6% Organic Content	
	5		5	16	Very stiff, brown and gray silty CLAY, trace sand and gravel	CL	5-7-14 N=21	22	>> Qp=4.5 tsf Qi = 4.0 tsf	
	6		6	14		CL	5-9-12 N=21	18	>> Qp=4.5 tsf Qi = 9.8 tsf	
	7		7	16	Medium stiff to stiff, gray silty CLAY, trace sand and gravel	CL	4-5-8 N=13	21	>> Qp=4.5 tsf Qi = 4.8 tsf	
	8		8	18		CL	2-3-5 N=8	22	Qp=3.0 tsf Qi = 2.5 tsf	
	9		9	18		CL	2-3-3 N=6	22	Qp=2.5 tsf Qi = 1.7 tsf	
	10		10	18		CL	2-3-4 N=7	22	Qp=2.3 tsf Qi = 1.5 tsf	
	25				End of boring at approximately 25 feet below existing grade.					

Completion Depth: 25.0 ft	Sample Types: <input type="checkbox"/> Pressuremeter	Latitude: 41.469621
Date Boring Started: 6/28/21	<input checked="" type="checkbox"/> Auger Cutting	Longitude: -88.271618
Date Boring Completed: 6/28/21	<input checked="" type="checkbox"/> Split-Spoon	Drill Rig: Geoprobe 7822DT
Logged By: J.W.	<input type="checkbox"/> Hand Auger	Remarks:
Drilling Contractor: Rubino Engineering, Inc.	<input type="checkbox"/> Rock Core	
	<input type="checkbox"/> No Recovery	

The stratification lines represent approximate boundaries. The transition may be gradual.
***Please reference the geotechnical report text for specific groundwater / dewatering recommendations.

MODEL: D:\info\...
FILE NAME: V:\4440 - Ridge and Holt Signals\CADD Sheets\4440-borings-10.dgn

USER NAME = BWedemeyer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,000' / 1"	CHECKED -	REVISED -
PLOT DATE = 9/1/2021	DATE -	REVISED -

KENDALL COUNTY HIGHWAY DEPARTMENT

CH 11 (RIDGE RD) & HOLT RD BORING LOGS

SCALE: N/A SHEET 10 OF 11 SHEETS STA. TO STA.

RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	21-00163-00-TL	KENDALL	15	13
CONTRACT NO.				
ILLINOIS				

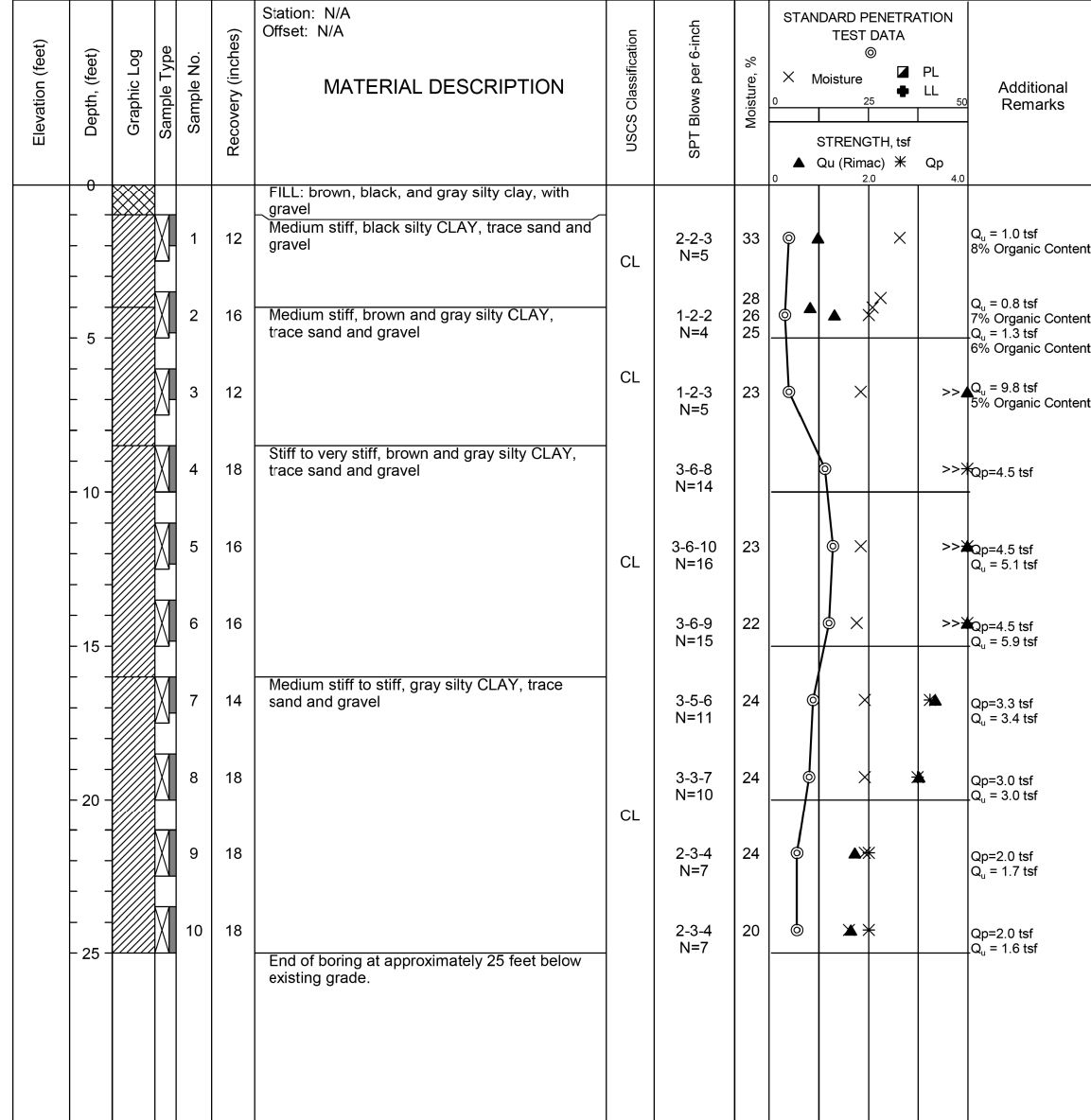


Rubino Engineering, Inc.
425 Shepard Drive
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING B-03

Sheet 1 of 1

Rubino Job No.: G21.103	Drilling Method: 3 1/4 Hollow Stem Auger	WATER LEVELS***
Project: Ridge Rd and Holt Rd Traffic Signals	Sampling Method: Split Spoon	While Drilling N/A
Location: Intersection of Ridge Road and Holt Road	Hammer Type: Automatic	Upon Completion N/A
City, State: Kendall County, Illinois	Boring Location: SE corner of intersection	Delay N/A
Client: Hutchinson Engineering, Inc.		



Completion Depth: 25.0 ft	Sample Types:	Pressuremeter	Latitude: 41.469465
Date Boring Started: 6/28/21	Auger Cutting	Shelby Tube	Longitude: -88.271626
Date Boring Completed: 6/28/21	Split-Spoon	Hand Auger	Drill Rig: Geoprobe 7822DT
Logged By: J.W.	Rock Core	No Recovery	Remarks:
Drilling Contractor: Rubino Engineering, Inc.			

The stratification lines represent approximate boundaries. The transition may be gradual.
***Please reference the geotechnical report text for specific groundwater / dewatering recommendations.

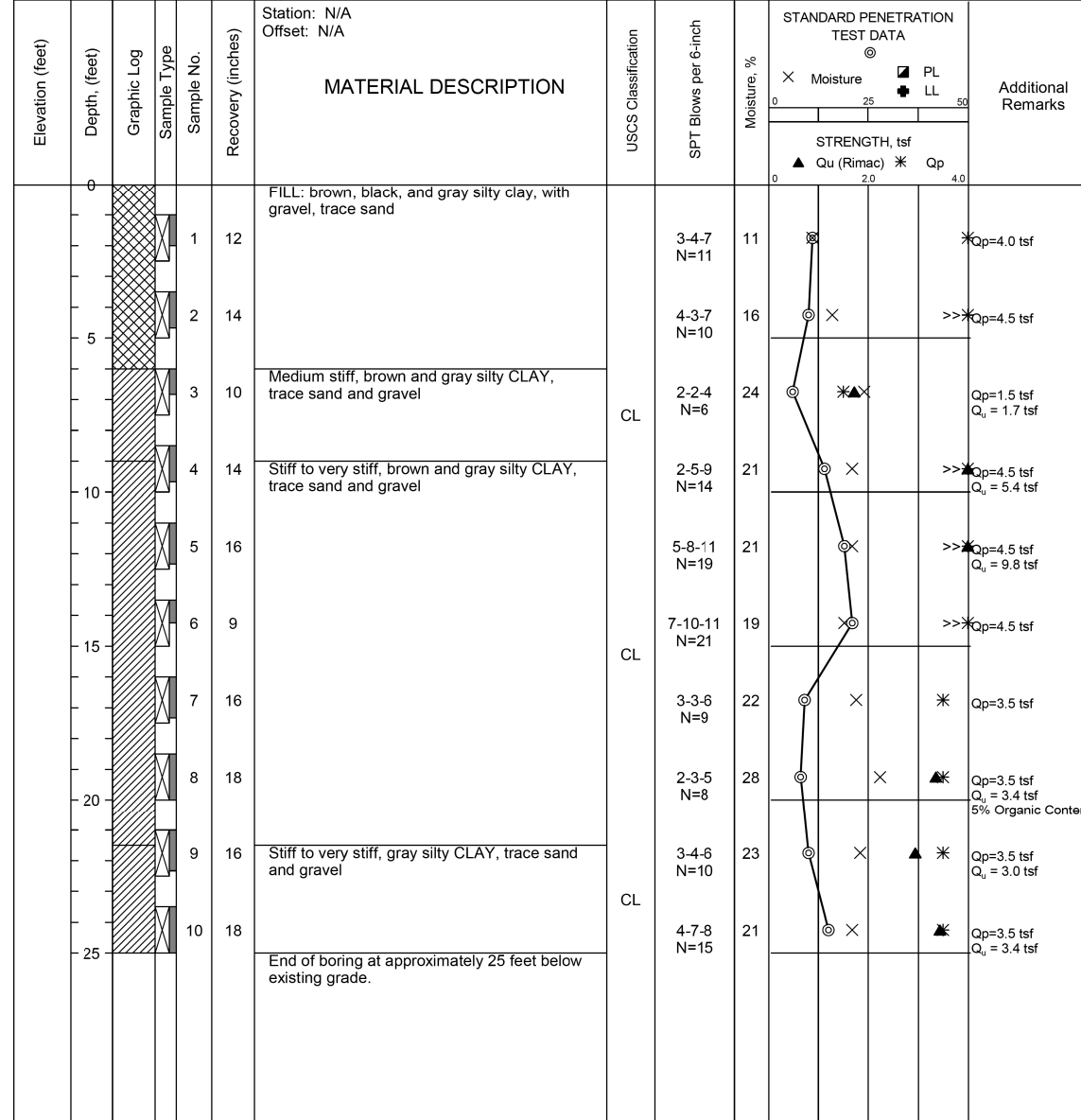


Rubino Engineering, Inc.
425 Shepard Drive
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING B-04

Sheet 1 of 1

Rubino Job No.: G21.103	Drilling Method: 3 1/4 Hollow Stem Auger	WATER LEVELS***
Project: Ridge Rd and Holt Rd Traffic Signals	Sampling Method: Split Spoon	While Drilling N/A
Location: Intersection of Ridge Road and Holt Road	Hammer Type: Automatic	Upon Completion N/A
City, State: Kendall County, Illinois	Boring Location: SW corner of intersection	Delay N/A
Client: Hutchinson Engineering, Inc.		



Completion Depth: 25.0 ft	Sample Types:	Pressuremeter	Latitude: 41.469295
Date Boring Started: 6/28/21	Auger Cutting	Shelby Tube	Longitude: -88.272017
Date Boring Completed: 6/28/21	Split-Spoon	Hand Auger	Drill Rig: Geoprobe 7822DT
Logged By: J.W.	Rock Core	No Recovery	Remarks:
Drilling Contractor: Rubino Engineering, Inc.			

The stratification lines represent approximate boundaries. The transition may be gradual.
***Please reference the geotechnical report text for specific groundwater / dewatering recommendations.

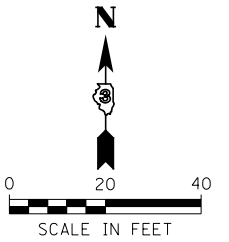
MODEL: D:\ch11 - Ridge and Holt - SHrink\CADD Sheets\4840chb03-1.dgn

USER NAME = BWedemeyer	DESIGNED -	REVISED -
PLOT SCALE = 40,0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 9/1/2021	CHECKED -	REVISED -
	DATE -	REVISED -

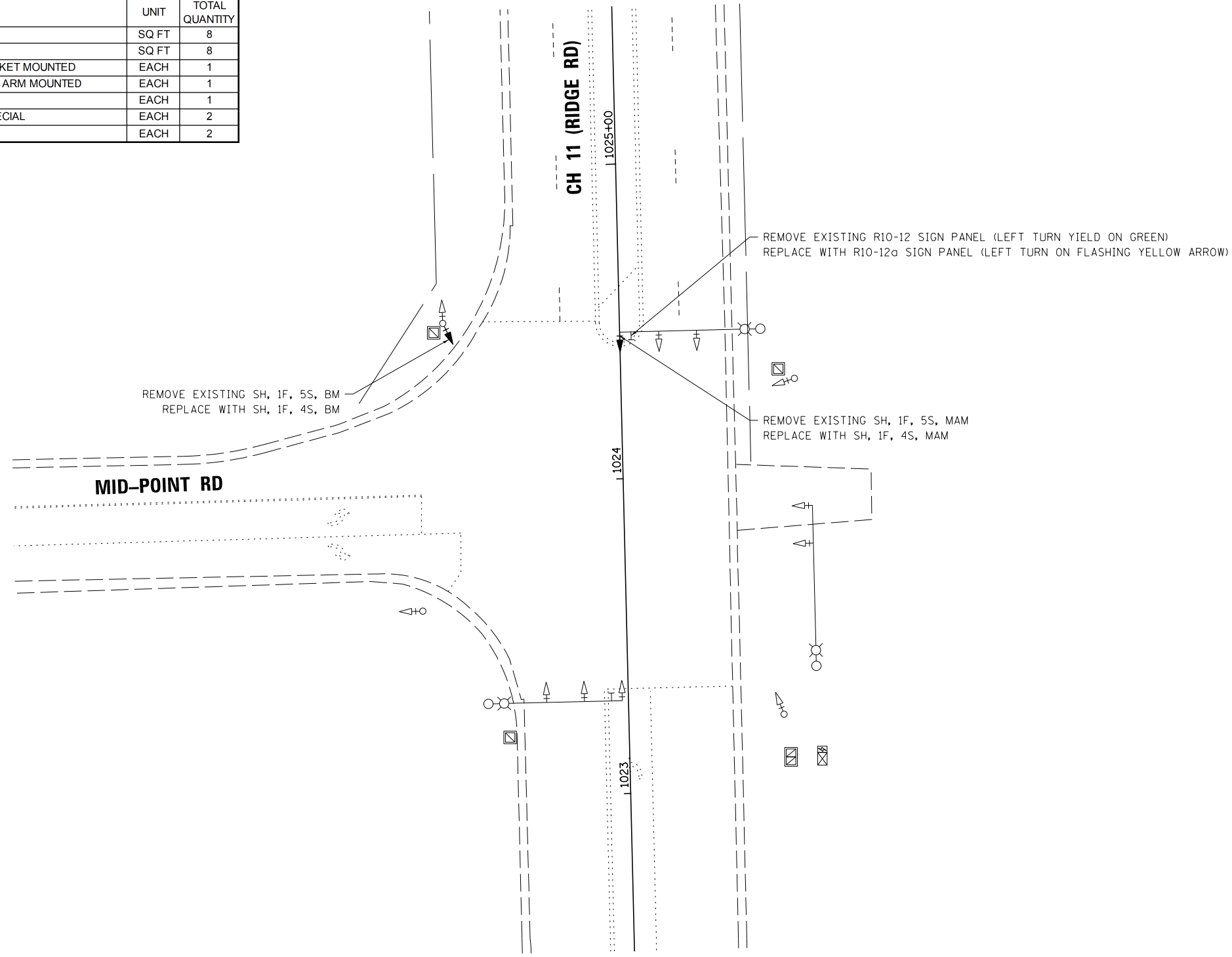
KENDALL COUNTY HIGHWAY DEPARTMENT

CH 11 (RIDGE RD) & HOLT RD BORING LOGS		RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: N/A	SHEET 11 OF 11 SHEETS	CH 11	21-00163-00-TL	KENDALL	15	14
					CONTRACT NO.	

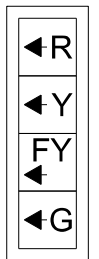
ILLINOIS



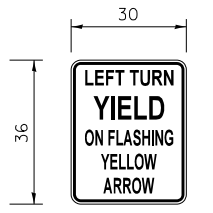
C.H. 11 (RIDGE RD) AND MID-POINT RD INTERSECTION TRAFFIC SIGNAL SCHEDULE OF QUANTITIES		
DESCRIPTION	UNIT	TOTAL QUANTITY
SIGN PANEL - TYPE 1	SQ FT	8
REMOVE SIGN PANEL - TYPE 1	SQ FT	8
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC, SPECIAL	EACH	2
REMOVE EXISTING SIGNAL HEAD	EACH	2



NEW 4S SIGNAL HEAD



STREET SIGN DETAIL



R10-12a

7.50 SQ. FT. EACH

1 REQUIRED

TYPE AP SHEETING REQUIRED

NOTES:

- USE EXISTING WIRING FOR NEW SIGNAL HEAD REPLACEMENT WORK AT BOTH THE MAST ARM AND SIGNAL POST. IF WIRING IS DAMAGED BY CONTRACTOR DURING REMOVAL OF EXISTING 5S SIGNAL HEAD THE WIRING SHALL BE REPLACED AT NO COST TO KENDALL COUNTY.
- QUANTITY PROVIDED FOR MODIFY EXISTING CONTROLLER IF REQUIRED BY SIGNAL HEAD CHANGE.

MODEL: D:\info\...
FILE NAME: ...

USER NAME = BWedemeyer	DESIGNED -	REVISED -
PLOT SCALE = 40,0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 9/1/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**KENDALL COUNTY
HIGHWAY DEPARTMENT**

**CH 11 (RIDGE RD) & MID-POINT RD
TRAFFIC SIGNAL MODIFICATION PLAN & SCHEDULE OF QUANTITIES**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	21-00163-00-TL	KENDALL	15	15
CONTRACT NO.				
ILLINOIS				