

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				90% FED 10% LOCAL	90% FED 10% LOCAL	90% FED 10% LOCAL
				ROADWAY	TRAFFIC SIGNALS	TRAINEES
				0004 URBAN	0021 URBAN	0042 URBAN
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	4023	4023		
# * 80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1		1	
# 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	199		199	⚠
# 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	523		523	
# 81400200	HEAVY-DUTY HANDHOLE	EACH	7		7	
# * 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	7		7	
# * 86000100	MASTER CONTROLLER	EACH	1		1	
# 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	6162		6162	⚠
# 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	7849		7849	
# 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	523		523	
# 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3482		3482	
# 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1090		1090	
# 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	137		137	
# * 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	44		44	

SPECIALTY ITEM
* SPECIAL PROVISION

MODEL: Default
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 PROJECT: 19-00284-00-CH-01.dwg
 USER: KKH
 DATE: 9/9/2022
 TIME: 10:44:00 AM
 PLOT DATE: 9/9/2022
 PLOT TIME: 10:44:00 AM
 PLOT SCALE: 40.0000' / in.
 PLOT SHEETS: 59
 PLOT SHEET NO.: 6
 PLOT CONTRACT NO.: 61H94
 PLOT COUNTY: COOK
 PLOT SECTION: 19-00284-00-CH
 PLOT F.A.U. RTE.: 2744
 PLOT ILLINOIS FED. AID PROJECT: ILLINOIS FED. AID PROJECT



USER NAME = Kellen.Hinchey	DESIGNED - KKH	REVISED - 09/09/2022 ⚠
	DRAWN - KKH	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - SS	REVISED -
PLOT DATE = 9/9/2022	DATE - 9/9/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
SUMMARY OF QUANTITIES

SCALE: NTS SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	6
CONTRACT NO. 61H94				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				90% FED 10% LOCAL ROADWAY	90% FED 10% LOCAL TRAFFIC SIGNALS	90% FED 10% LOCAL TRAINEES
				0004	0021	0042
				URBAN	URBAN	URBAN
# 87900200	DRILL EXISTING HANDHOLE	EACH	29		29	
# 88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4		4	
# 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	22		22	
# 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	56		56	
# 88500100	INDUCTIVE LOOP DETECTOR	EACH	11		11	
# * 88600100	DETECTOR LOOP, TYPE I	FOOT	1142		1142	
# * 88700200	LIGHT DETECTOR	EACH	26		26	
# * 88700300	LIGHT DETECTOR AMPLIFIER	EACH	7		7	
# 89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	8		8	
# * 89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	7		7	
# * 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	7		7	
# 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	3		3	
# * X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	2438		2438	⚠
# * X1400320	TRAFFIC SIGNAL POST, 16 FOOT, (SPECIAL)	EACH	8		8	

SPECIALTY ITEM
* SPECIAL PROVISION

MODEL: D:\p\l...
 FILE: 11411...
 PROJECT: Ridge Avenue - Foundation Phase
 SHEETS: 59 of 59



USER NAME = Keilen.Hinchey	DESIGNED - KKH	REVISED - 09/09/2022
DRAWN - KKH	CHECKED - SS	REVISED -
PLOT SCALE = 40,0000' / in.	DATE - 9/9/2022	REVISED -
PLOT DATE = 9/9/2022		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
SUMMARY OF QUANTITIES

SCALE: NTS SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.U. RTE. 2744	SECTION 19-00284-00-CH	COUNTY COOK	TOTAL SHEETS 59	SHEET NO. 7
CONTRACT NO. 61H94			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				90% FED 10% LOCAL ROADWAY	90% FED 10% LOCAL TRAFFIC SIGNALS	90% FED 10% LOCAL TRAINEES
				0004	0021	0042
				URBAN	URBAN	URBAN
# * X1400321	TRAFFIC SIGNAL POST, 18 FOOT, (SPECIAL)	EACH	7		7	
# * X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2		2	
# * X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	13		13	
* X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	3	3		
# * X8440110	RELOCATE EXISTING LIGHT POLE WITH LUMINAIRE	EACH	1		1	
# * X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	56		56	
# * X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	60		60	
# * X8900100	TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)	EACH	4		4	
# * XX005930	TRAFFIC SIGNAL POST, 15 FOOT, (SPECIAL)	EACH	1		1	
* Z0007430	TEMPORARY SIDEWALK	SQ FT	5889	5889		
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
* Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4		
# * Z0033002	LED SIGNAL FACE RETROFIT, RED BALL	EACH	52		52	
# * Z0033004	LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	52		52	



SPECIALTY ITEM
* SPECIAL PROVISION

MOBILE: 815-424-1100 FAX: 815-424-1101 EMAIL: info@kimley-horn.com
 1111 W. MONROE ST. SUITE 200 ST. LOUIS, MO 63102
 WWW.KIMLEY-HORN.COM



USER NAME = Kellen.Hinchey	DESIGNED - KKH	REVISED - 09/09/2022
PLOT SCALE = 1/8" = 1'-0"	DRAWN - KKH	REVISED -
PLOT DATE = 7/25/2022	CHECKED - SS	REVISED -
	DATE - 7/25/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
SUMMARY OF QUANTITIES

F.A.U. RTE. 2744	SECTION 19-00284-00-CH	COUNTY COOK	TOTAL SHEETS 59	SHEET NO. 8
SCALE: NTS		SHEET 6 OF 7 SHEETS		STA. TO STA.
CONTRACT NO. 61H94				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	90% FED 10% LOCAL	90% FED 10% LOCAL	90% FED 10% LOCAL
				ROADWAY	TRAFFIC SIGNALS	TRAINEES
				0004 URBAN	0021 URBAN	0042 URBAN
# * Z0033008	LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	52		52	
# * Z0033010	LED SIGNAL FACE RETROFIT, YELLOW ARROW	EACH	2		2	
# * Z0033012	LED SIGNAL FACE RETROFIT, GREEN ARROW	EACH	14		14	
* Z0076600	TRAINEES	HOUR	500			500
* Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500			500

SPECIALTY ITEM
* SPECIAL PROVISION

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USER NAME = Kellen.Hinchey	DESIGNED - KKH	REVISED - 09/09/2022
	DRAWN - KKH	REVISED -
PLOT SCALE = 40.0000 ' / 1"	CHECKED - SS	REVISED -
PLOT DATE = 9/9/2022	DATE - 9/9/2022	REVISED -

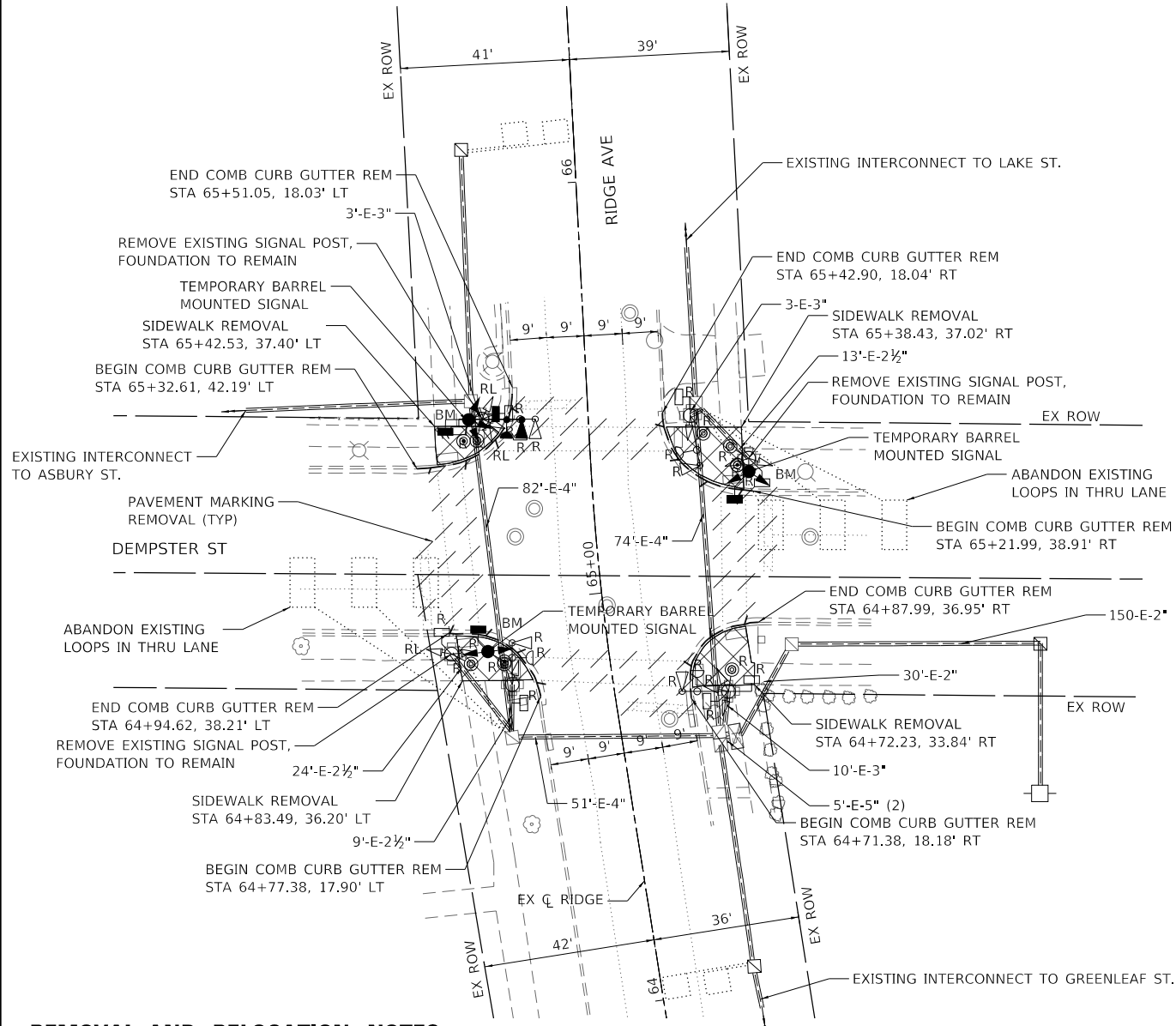
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
SUMMARY OF QUANTITIES

SCALE: NTS | SHEET 7 OF 7 SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	9
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				

REMOVAL PLAN AND TEMPORARY SIGNAL INSTALLATION PLAN



REMOVAL AND RELOCATION NOTES:

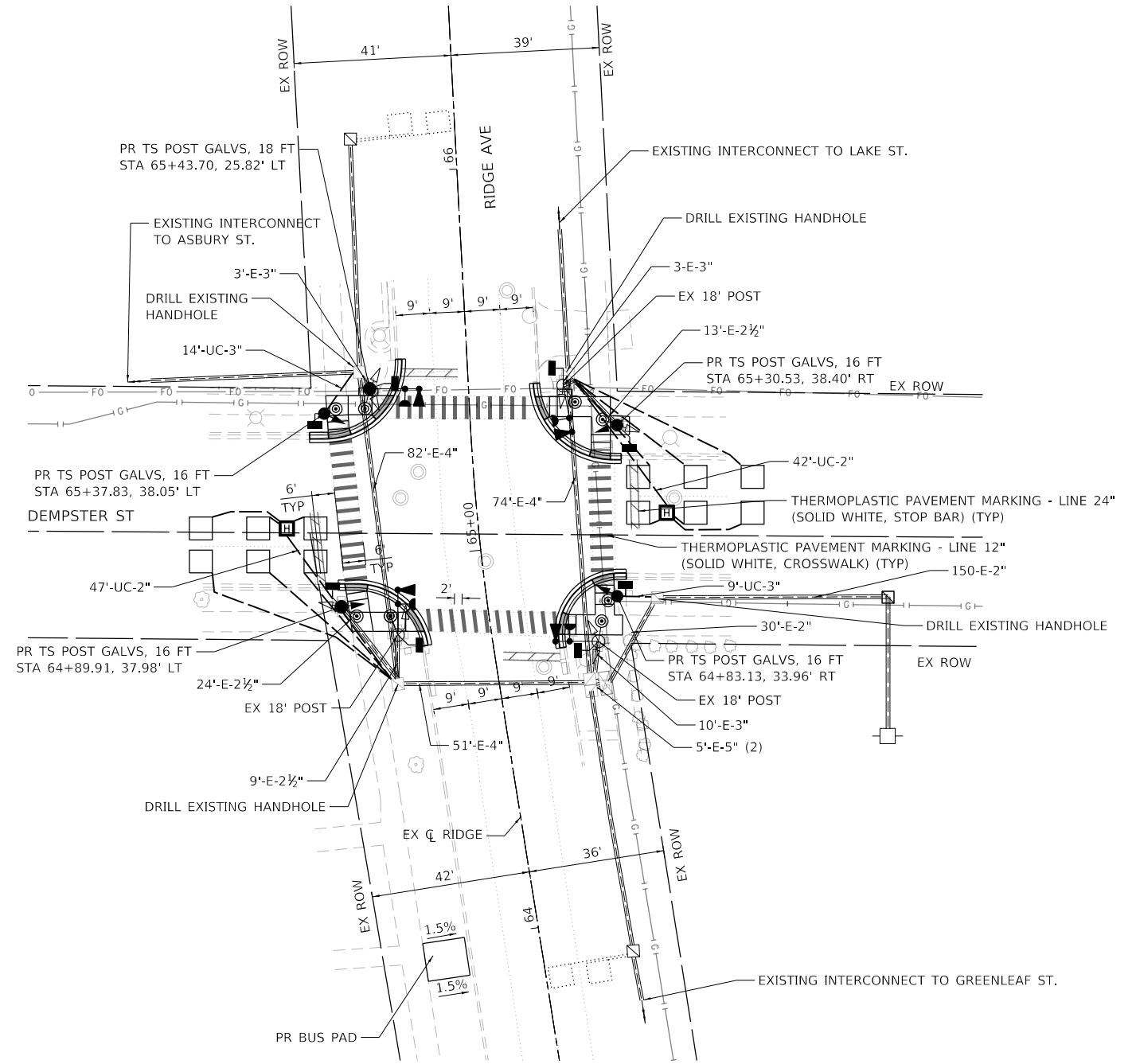
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR. TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BE CONFIRMED WITH THE CITY FOR SALVAGE BEFORE REMOVING FROM THE PROJECT SITE. ITEMS DESIGNATED FOR SALVAGE BY THE CITY SHALL BE CAREFULLY REMOVED AND RETURNED TO THE CITY. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE:

- 3 EACH TRAFFIC SIGNAL POST
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 6 EACH PEDESTRIAN PUSH-BUTTON
- 4 EACH 3-SECTION SIGNAL HEAD
- 4 EACH CONFIRMATION BEACON
- 4 EACH LIGHT DETECTOR

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL POSTS AND TRAFFIC SIGNAL CONTROLLER:

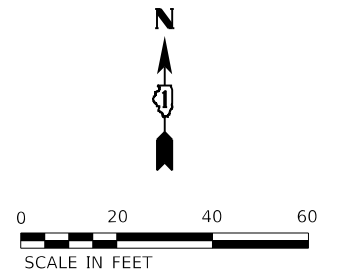
- 3 EACH 3-SECTION SIGNAL HEAD

TRAFFIC SIGNAL MODIFICATION PLAN



NOTES

1. RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS TO LED.
2. ALL PEDESTRIAN PUSH BUTTONS SHALL BE APS.
3. DEMPSTER ST IS AN IDOT ROUTE. COORDINATION FOR MAINTENANCE TRANSFERS AND INSPECTIONS SHALL INCLUDE THE IDOT AREA ENGINEER ANDY SCHUETZE 847-705-4508.



MODEL: Default
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Kimley-Horn

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 400 WINDFIELD ROAD, SUITE 600
 WARRENVILLE, IL 60090
 PHONE: 630-487-6600
 WWW.KIMLEY-HORN.COM

USER NAME = Kellen.Hinchey	DESIGNED - LMB	REVISED - 09/09/2022
PLOT SCALE = 40,0000' / in.	DRAWN - LMB	REVISED -
PLOT DATE = 9/9/2022	CHECKED - SS	REVISED -
	DATE - 9/9/2022	REVISED -

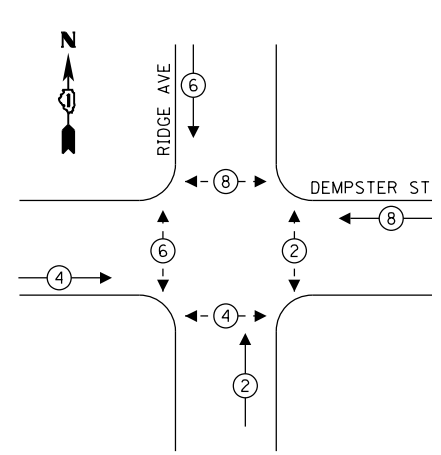
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
TRAFFIC SIGNAL MODIFICATION PLAN - RIDGE AVE & DEMPSTER ST**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	39
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				

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

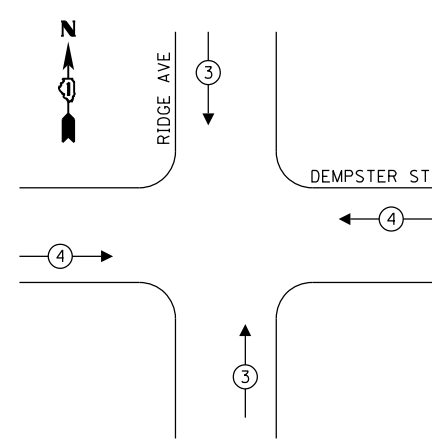
EXISTING AND TEMPORARY CONTROLLER SEQUENCE



LEGEND:

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

EXISTING AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↑ ↓	← →

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
ARROW	-	-	-	-
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	-	-	-	-
VIDEO SYSTEM	-	-	-	-
BLANK-OUT SIGN	-	-	-	-
FLASHER	-	-	-	-
STREET NAME SIGN	-	-	-	-
LUMINAIRE	-	-	-	-
TOTAL =				402.8

ENERGY COSTS TO:

CITY OF EVANSTON
2100 RIDGE AVE
EVANSTON, ILLINOIS 60201

ENERGY SUPPLY: CONTACT: LARRY SHANK
PHONE: 847-921-7629
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

Kimley-Horn

USER NAME = Kellen.Hinchey
DESIGNED - KKH
DRAWN - KKH
PLOT SCALE = 40,0000 ' / in.
PLOT DATE = 9/9/2022

REVISOR - KKH
CHECKED - SS
DATE - 9/9/2022

REVISED - 09/09/2022
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
EXISTING CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY
VEHICLE PREEMPTION SEQUENCE - RIDGE AVENUE & DEMPSTER STREET

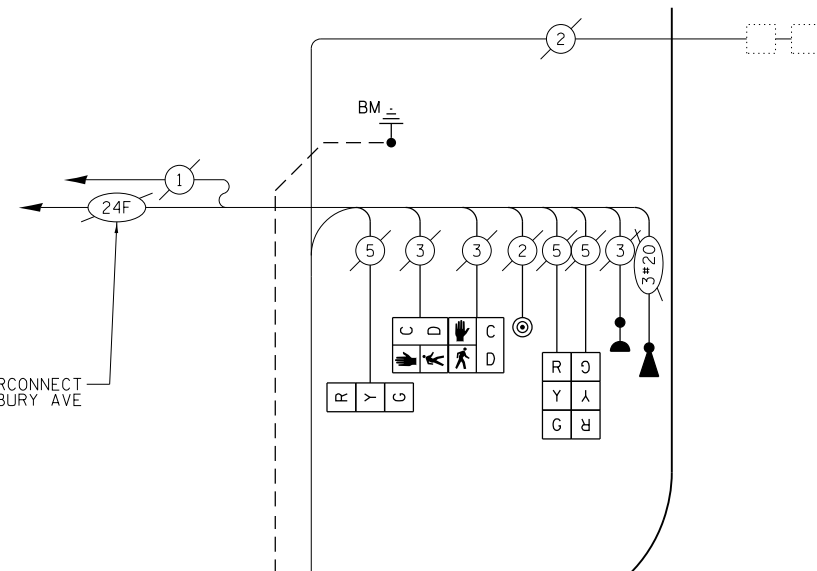
SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	40

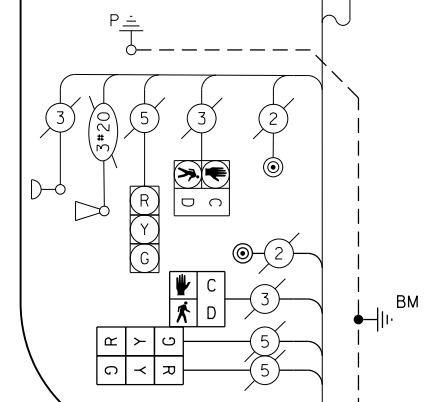
CONTRACT NO. 61H94

ILLINOIS FED. AID PROJECT

EXISTING INTERCONNECT TO ASBURY AVE



EXISTING INTERCONNECT TO LAKE STREET



DEMPSTER STREET

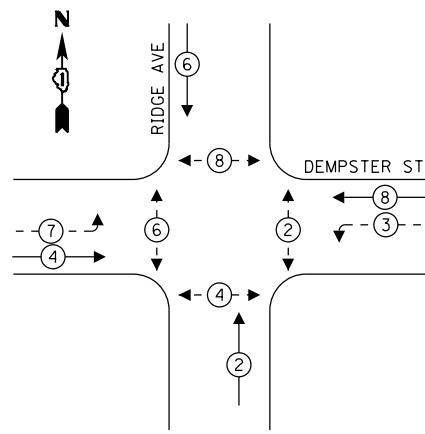
RIDGE AVENUE

CABLE PLAN
(NOT TO SCALE)

EXISTING INTERCONNECT TO GREENLEAF STREET

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PROPOSED CONTROLLER SEQUENCE



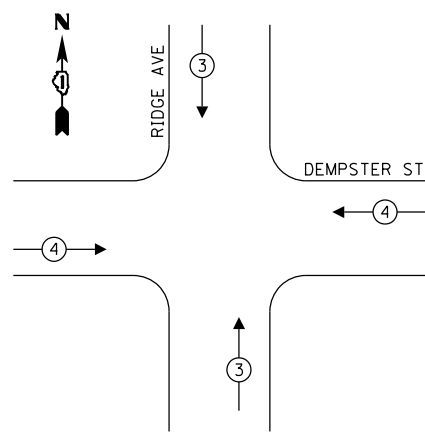
LEGEND:

- ← (circle with asterisk) ← PROTECTED PHASE
- ← (circle with asterisk) ← PROTECTED/PERMITTED PHASE
- ← (circle with asterisk) ← PEDESTRIAN PHASE

LEGEND

L = LED SIGNAL FACE RETROFIT

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↓ ↑	← →

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	89
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	23
HEAVY-DUTY HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	247
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	247
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	499
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	419
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	50
TRAFFIC SIGNAL POST, 16 FT. (SPECIAL)	EACH	4
TRAFFIC SIGNAL POST, 18 FT. (SPECIAL)	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
DRILL EXISTING HANDHOLE	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	4
DETECTOR LOOP, TYPE I	FOOT	288
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)	EACH	1
LED SIGNAL FACE RETROFIT, RED BALL	EACH	8
LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	8
LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	8

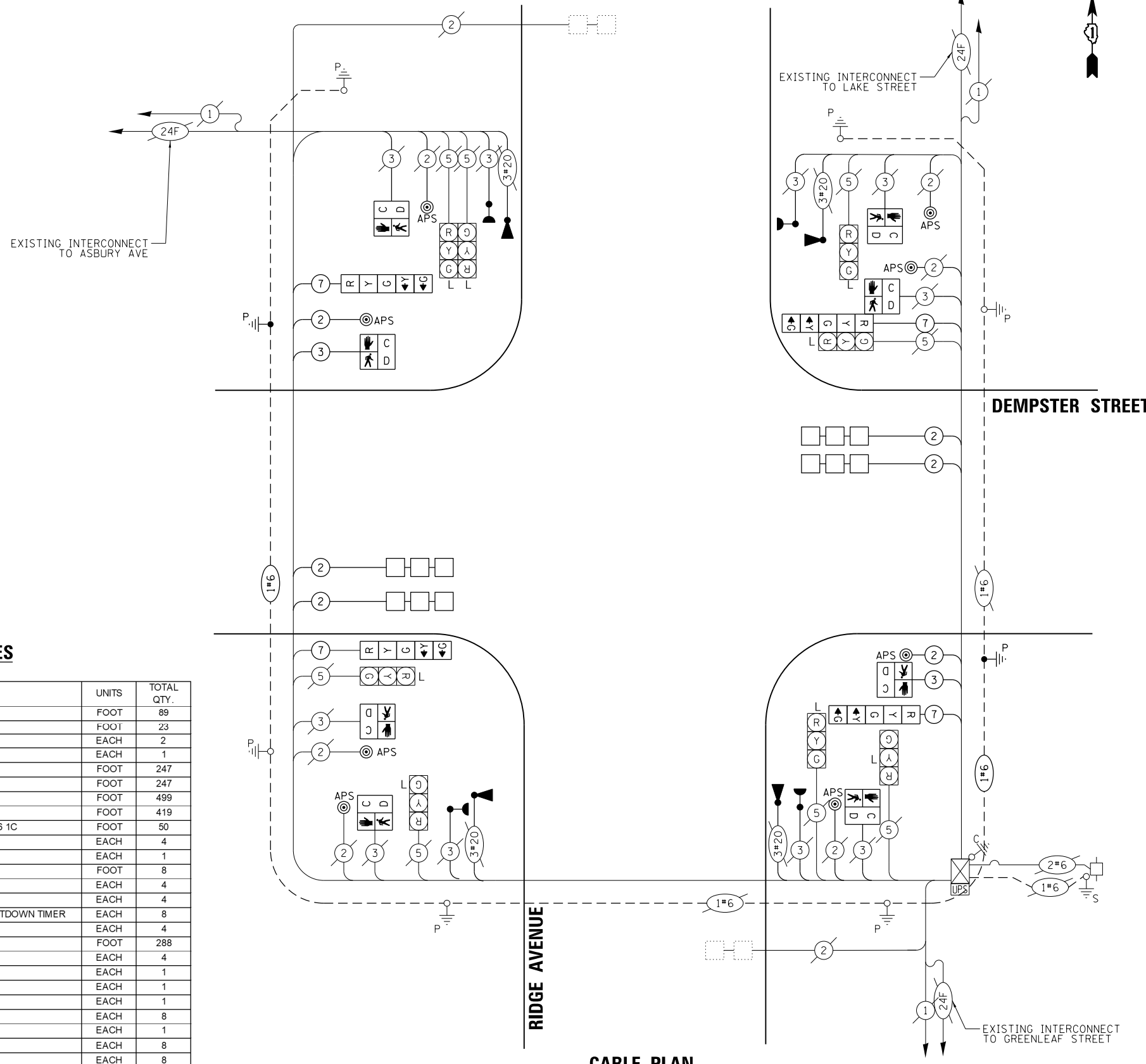
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
ARROW	12	10	10	12.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	-	-	-
BLANK-OUT SIGN	-	-	-	-
FLASHER	-	-	-	-
STREET NAME SIGN	-	-	-	-
LUMINAIRE	-	-	-	-
TOTAL =				439.8

ENERGY COSTS TO:

CITY OF EVANSTON
2100 RIDGE AVE
EVANSTON, ILLINOIS 60201

ENERGY SUPPLY: CONTACT: LARRY SHANK
PHONE: 847-921-7629
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



CABLE PLAN
(NOT TO SCALE)

Kimley»Horn

USER NAME = Kellen.Hinchey
DESIGNED - KKH
DRAWN - KKH
CHECKED - SS
DATE - 9/9/2022

REVISED - 09/09/2022
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
PROPOSED CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY
VEHICLE PREEMPTION SEQUENCE - RIDGE AVENUE & DEMPSTER STREET**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	41
CONTRACT NO. 61H94				

SCALE: NTS SHEET OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

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