

09/23/2022 LETTING ITEM 030

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. RITE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	1
CONTRACT NO. 61H94				

FOR INDEX OF SHEETS, SEE SHEET NO. 2
 FOR HIGHWAY STANDARDS, SEE SHEET NO. 2
 RIDGE AVENUE TRAFFIC DATA
 DESIGN DESIGNATION: MINOR ARTERIAL
 ADT: 16,400 TO 23,000 (2021) (0% TRUCKS)
 POSTED SPEED: 25 MPH
 DESIGN SPEED: 25 MPH

PROPOSED HIGHWAY PLANS

FAU ROUTE 2744 (RIDGE AVENUE)
 FROM OAKTON STREET TO CHURCH STREET
 SECTION NO. 19-00284-00-CH
 PROJECT NO. SKFL(966)
 TRAFFIC SIGNAL IMPROVEMENTS
 CITY OF EVANSTON
 COOK COUNTY
 C-91-120-20



Kimley»Horn

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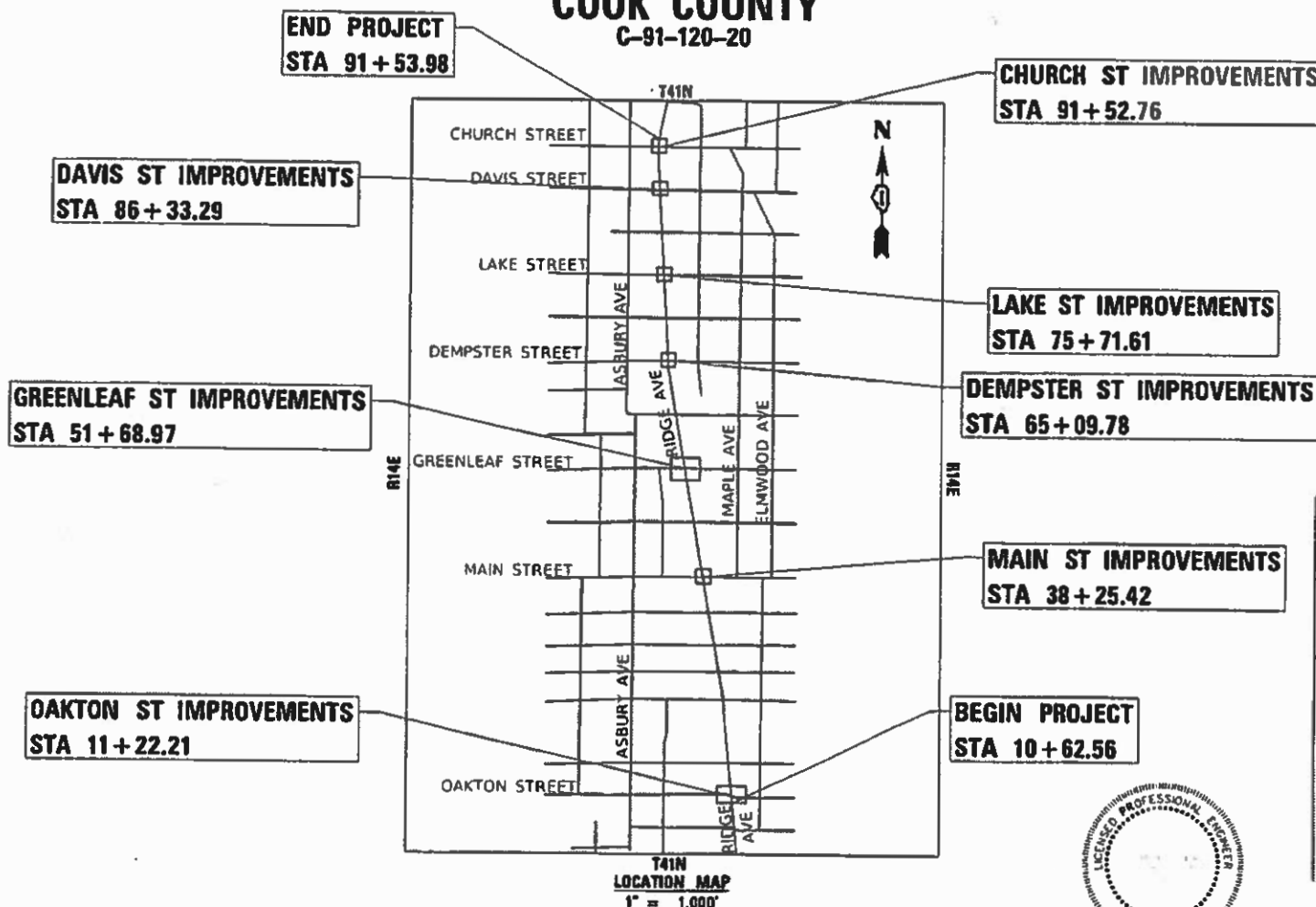


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR #11

PROJECT MANAGER SAGAR SONAR, P.E., PTOE
 PROJECT ENGINEER LAUREN BUSANSKY, P.E.

CONTRACT NO. 61H94



GROSS LENGTH = 8031.45 FT. = 1.521 MILE
 NET LENGTH = 1923.00 FT. = 0.364 MILE



DATE: JUNE 14, 2022

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED: *[Signature]*
 SAT NAHAK P.E.
 CITY OF EVANSTON, SENIOR PROJECT MANAGER

PASSED: *[Signature]*
 JULY 27, 2022
 DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
 BASED ON LIMITED
 REVIEW: *[Signature]*
 JULY 27, 2022
 REGIONAL ENGINEER

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

FEDERAL AID DESIGN PROGRAM ENGINEER: CARMEN E. RAMOS, P.E. SCHAUMBURG, IL

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HIGHWAY STANDARDS

424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424021-06	DEPRESSED CORNER FOR SIDEWALKS
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701011-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS \leq 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
814001-03	HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATION
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

DISTRICT 1 STANDARDS

TS-05	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-22	ARTERIAL ROAD INFORMATION SIGN

GENERAL NOTES

1. GENERAL
 - a. ALL CONSTRUCTION SHALL BE DONE ACCORDING TO THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2022; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JAN 1, 2022; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS; THE DETAILS IN THESE PLANS, AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
 - b. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES, AND IDOT.
 - c. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER. THE STORAGE OF EQUIPMENT OR MATERIALS WITHIN THE PARKWAYS SHALL REQUIRE PRIOR APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL CONTACT THE CITY OF EVANSTON PUBLIC WORKS DEPARTMENT 48 HOURS PRIOR TO ANY WORK IN ORDER TO OBTAIN CITY UTILITY LOCATIONS.
 - d. THE CITY OF EVANSTON SHALL FIELD REVIEW AND APPROVE LOCATION OF SIGNAL POSTS AND CONTROLLERS.
 - e. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT PRESERVATION OF EXISTING TREES ON CITY OF EVANSTON STREETS IS OF UTMOST IMPORTANCE TO THE CITY. IT WILL BE THE CONTRACTORS RESPONSIBILITY TO PROTECT TREES AND NOT CAUSE ANY DAMAGE TO THEM.
 - f. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. WHERE NEW WORK IS PROPOSED TO MEET EXISTING FEATURES, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD CHECK ALL DIMENSIONS AND ELEVATIONS AND NOTIFY THE ENGINEER OF DISCREPANCIES BEFORE PROCEEDING WITH CONSTRUCTION.
 - g. THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION, EXCEPT FOR BRIEF PERIODS OF INTERRUPTION. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER NO LESS THAN 24 HOURS IN ADVANCE OF THE INTERRUPTION OF ACCESS AND/OR SERVICES. THE NOTIFICATION WILL INCLUDE THE TIME AND DURATION OF THE INTERRUPTION.
 - h. THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
 - i. TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS, THE ENGINEER SHALL CONTACT FADI SULTAN, THE AREA TRAFFIC FIELD ENGINEER, AT FADI.SULTAN@ILLINOIS.GOV.
2. SURVEY
 - a. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE THE MONUMENTS ARE REMOVED, THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
3. REMOVAL
 - a. ALL EXCESS MATERIAL SHALL BE DISPOSED OF OFFSITE ON THE DAY IT IS EXCAVATED OR REMOVED.
 - b. THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE PROJECT LIMITS. ALL EXCESS OR WASTE MATERIAL SHALL BE HAULED AWAY FROM THE PROJECT SITE BY THE CONTRACTOR AND LEGALLY DISPOSED OF OUTSIDE THE RIGHT-OF-WAY.
 - c. 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.
4. DRAINAGE
 - a. UNLESS OTHERWISE NOTED ON THE PLANS, THE EXISTING DRAINAGE FACILITIES SHALL REMAIN IN USE DURING THE PERIOD OF CONSTRUCTION. DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING OR ANY OTHER METHOD ACCEPTABLE TO THE ENGINEER.
 - b. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, CULVERTS, SEWERS OR CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET. THE CONTRACTOR SHALL BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWER ARE BUILT AND IN SERVICE.

GENERAL NOTES (CONTINUED)

5. SIGNS
 - a. THE CONTRACTOR WILL BE REQUIRED TO RELOCATE OR REMOVE AND REPLACE SIGNS WHICH INTERFERE WITH HIS/HER CONSTRUCTION OPERATIONS, AND TO TEMPORARILY RESET ALL SUCH SIGNS DURING CONSTRUCTION OPERATIONS ACCORDING TO ARTICLE 107.25 OF THE "STANDARD SPECIFICATIONS".
 - ALL UNUSED SIGNS SHALL BE RETURNED TO THE CITY.
 - LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN ELEVATIONS.
6. UTILITIES
 - a. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK.
 - b. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR DESTRUCTION OF PUBLIC OR PRIVATE PROPERTY ACCORDING TO THE SPECIAL PROVISIONS AND ARTICLE 107.20 OF THE "STANDARD SPECIFICATIONS". THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTIVE MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION. IN PARTICULAR, THE CONTRACTOR WILL TAKE ADEQUATE MEASURES TO PREVENT THE UNDERMINING OF UTILITIES AND SEWERS WHICH ARE STILL IN SERVICE.
7. MISCELLANEOUS
 - a. GENERALLY, 10 FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD, UNLESS OTHERWISE SHOWN ON THE PLANS.
 - b. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT SOME QUANTITIES ARE GIVEN IN BOTH SUMMARY FORM AND ON THE PLAN SHEETS. CARE SHOULD BE TAKEN TO AVOID DUPLICATION OF QUANTITIES.
 - c. AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR. THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR 1.
9. TRAFFIC CONTROL AND PROTECTION
 - a. NO WORK SHALL BEGIN UNTIL THE TRAFFIC CONTROL MEASURES ARE IN PLACE. THE CONTRACTOR SHALL AT ALL TIMES PROVIDE TRAFFIC PROTECTION BY THE APPLICATION OF TRAFFIC CONTROL DEVICES ACCORDING TO THE "STANDARD AND SPECIFICATIONS" AND AS SHOWN ON THE PLANS.
 - b. THE CONTRACTOR SHALL MAINTAIN SAFE ACCESS AT INTERSECTIONS FOR PEDESTRIANS AT ALL TIMES. WHERE SIDEWALK IS TO BE REMOVED, TEMPORARY HMA SIDEWALK SHALL BE PLACED WHEN PERMANENT PCC SIDEWALK WILL NOT BE INSTALLED AT THE END OF THE DAY.
 - c. ALL TEMPORARY CONSTRUCTION TRAFFIC CONTROL WARNING SIGNS AND ASSOCIATED SIGNING MOUNTED WITH THE WARNING SIGNS SHALL HAVE BLACK LEGENDS AND BORDERS ON FLUORESCENT ORANGE REFLECTIVE SHEETING.
 - d. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC IMMEDIATELY WHEN THEY ARE NO LONGER NECESSARY. WHEN A SIGN IS COVERED, ITS POST SHALL HAVE A REFLECTIVE 3 INCH X 6 INCH DELINEATOR INSTALLED.
 - g. ROAD NAME PLATES SHALL BE INSTALLED ON THE "ROAD CONSTRUCTION AHEAD" SIGNS AT THE INTERSECTIONS SHOWN ON THIS TRAFFIC CONTROL PLAN. THE ROAD NAME PLATES SHALL BE 9 INCH BLANKS WITH 6 INCH UPPERCASE AND 4 1/2 INCH LOWERCASE LETTERING, THE ROAD NAME PLATES SHALL BE FURNISHED BY THE CONTRACTOR.
 - h. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE EQUIPPED WITH MONO-DIRECTIONAL TYPE A AMBER FLASHING LIGHTS.

COMMITMENTS

NONE

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USER NAME = Kellen.Hinchey	DESIGNED - LMB	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN - LMB	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			
INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, COMMITMENTS			
SCALE: NTS	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	2
CONTRACT NO. 61H94				
ILLINOIS		FED. AID PROJECT		

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	0021	0042
				URBAN	URBAN	URBAN
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	22.2	22.2		
42001300	PROTECTIVE COAT	SQ YD	6092	6092		
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	5888.5	5888.5		
42400800	DETECTABLE WARNINGS	SQ FT	514	514		
44000100	PAVEMENT REMOVAL	SQ YD	498	498		
44000163	HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/2"	SQ YD	196	196		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1488	1488		
44000600	SIDEWALK REMOVAL	SQ FT	6338	6338		
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1473.5	1473.5		
# 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	72	72		
# 66900530	SOIL DISPOSAL ANALYSIS	EACH	5	5		
# 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1		
# 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1		
# 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	8	8		

SPECIALTY ITEM
* SPECIAL PROVISION

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PLOT DATE = 7/25/2022	DATE - 7/25/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
SUMMARY OF QUANTITIES

SCALE: NTS | SHEET 2 OF 7 SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	4

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
67100100	MOBILIZATION	L SUM	1	1		
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	61	61		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	4458	4458		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	4023	4023		
72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	24	24		
# 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	117	117		
# 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	767	767		
# 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	295	295		
# 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	2117	2117		
# 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2034	2034		
# 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	417	417		

SPECIALTY ITEM
* SPECIAL PROVISION

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 PLOT SCALE: 1/8" = 1'-0"
 PLOT BY: KKH
 PROJECT: RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
 SHEET: 3 OF 7



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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
SUMMARY OF QUANTITIES

SCALE: NTS	SHEET 3 OF 7 SHEETS	STA. TO STA.	F.A.U. RTE. 2744	SECTION 19-00284-00-CH	COUNTY COOK	TOTAL SHEETS 59	SHEET NO. 5
ILLINOIS FED. AID PROJECT							

CONTRACT NO. 61H94

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	110		110	
# 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	589		589	
# 81400200	HEAVY-DUTY HANDHOLE	EACH	9		9	
# * 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	7269		7269	
# 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	8834		8834	
# 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	657		657	
# 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3437		3437	
# 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	671		671	
# 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	87		87	
# * 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	36		36	

SPECIALTY ITEM

* SPECIAL PROVISION

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DEPARTMENT OF TRANSPORTATION

RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
SUMMARY OF QUANTITIES

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

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

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	2879		2879	
# * X1400320	TRAFFIC SIGNAL POST, 16 FOOT, (SPECIAL)	EACH	6		6	

SPECIALTY ITEM

* SPECIAL PROVISION



USER NAME = Kellen.Hinchee	DESIGNED = KKH	REVISED =
DRAWN = KKH	REVISED =	
PLOT SCALE = 40,0000' / in.	CHECKED = SS	REVISED =
PLOT DATE = 7/25/2022	DATE = 7/25/2022	REVISED =

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

MODEL: DWG.dwg
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DRAWN: KKH
CHECKED: SS
DATE: 7/25/2022

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	
# *	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

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 FILE NAME: 19-00284-00-CH-001.dwg
 PLOT DATE: 7/25/2022
 PLOT SCALE: 1/8"=1'-0"

 <small>BY THE KIMLEY-HORN AND ASSOCIATES, INC. 441 WINFIELD ROAD, SUITE 402 MENARDVILLE, IL 62454 PHONE: 618-953-2100 WWW.KIMLEY-HORN.COM</small>	USER NAME = Keilen.Hinchey	DESIGNED - KKH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS SUMMARY OF QUANTITIES	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 1/8" = 1'-0"	CHECKED - SS	REVISED -			2744	19-00284-00-CH	COOK	59	8	
	PLOT DATE = 7/25/2022	DATE - 7/25/2022	REVISED -						CONTRACT NO. 61H94		
						SCALE: NTS		SHEET 6 OF 7 SHEETS		STA. TO STA.	
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
# * 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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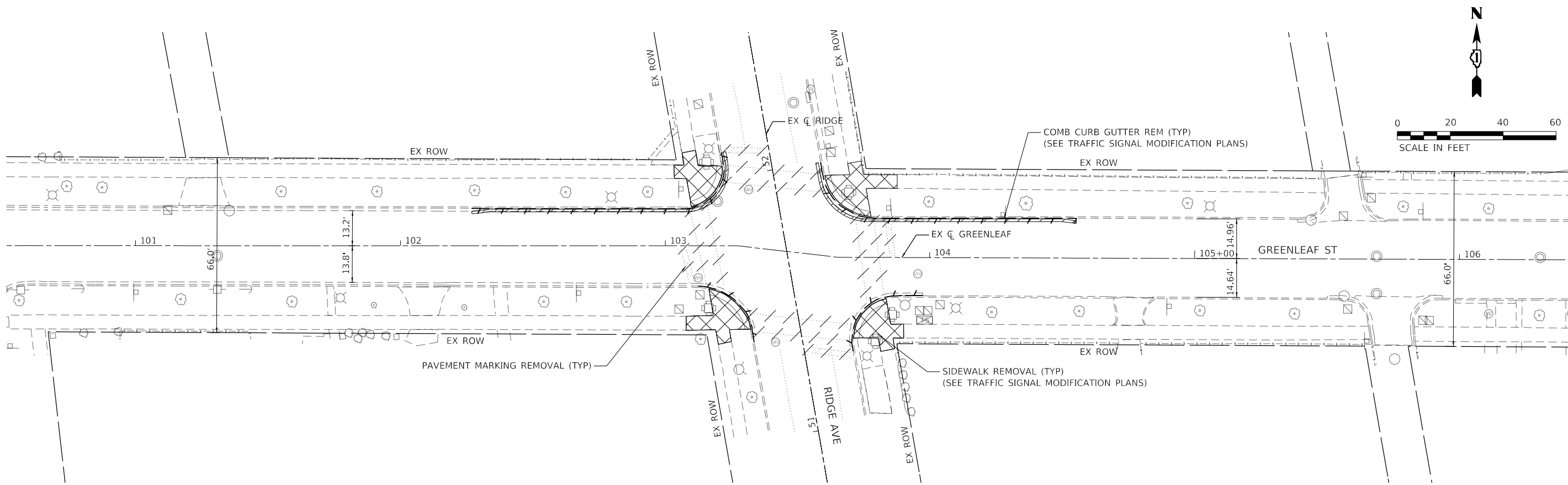
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DRAWN - KKH	REVISIONS -	
PLOT SCALE = 40,0000' / in.	CHECKED - SS	REVISED -
PLOT DATE = 7/25/2022	DATE - 7/25/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

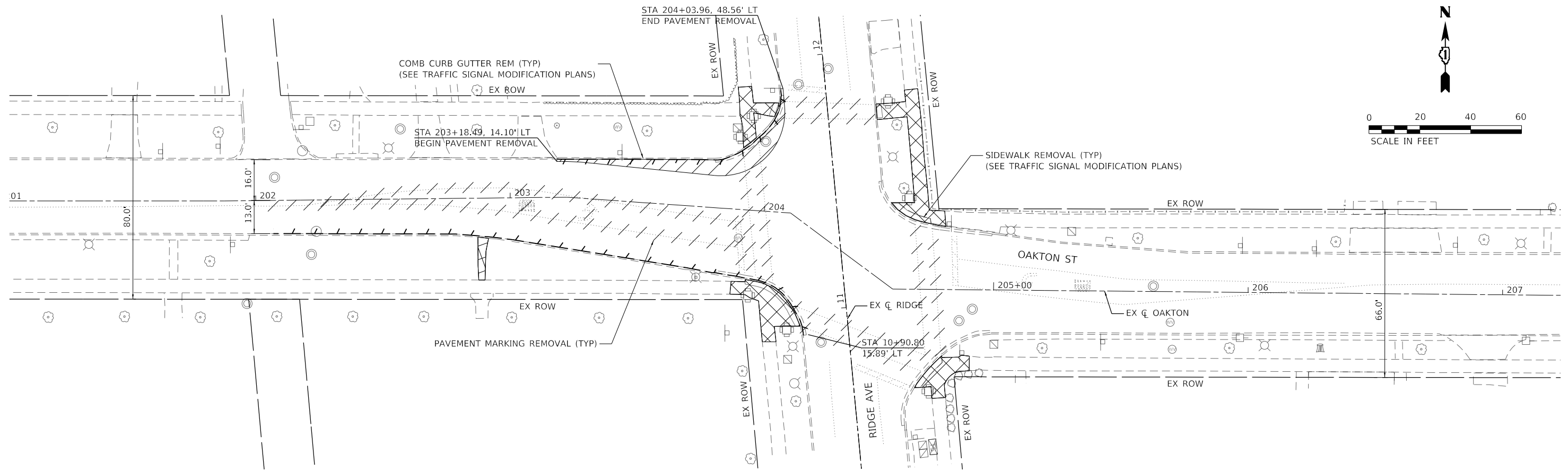
RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
SUMMARY OF QUANTITIES

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				



RIDGE AVENUE & GREENLEAF STREET



RIDGE AVENUE & OAKTON STREET

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USER NAME = Kellen.Hinchey	DESIGNED - KKH	REVISED -
PLOT SCALE = 40.0000 ' / in.	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
REMOVAL PLAN**

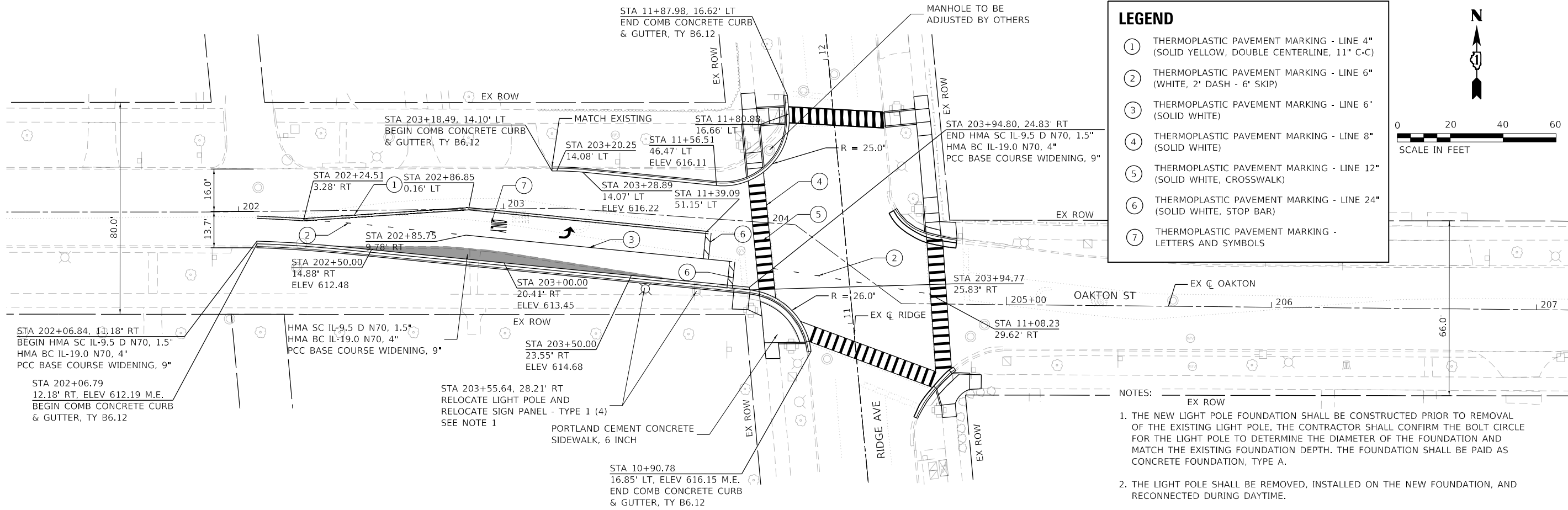
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	11
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				

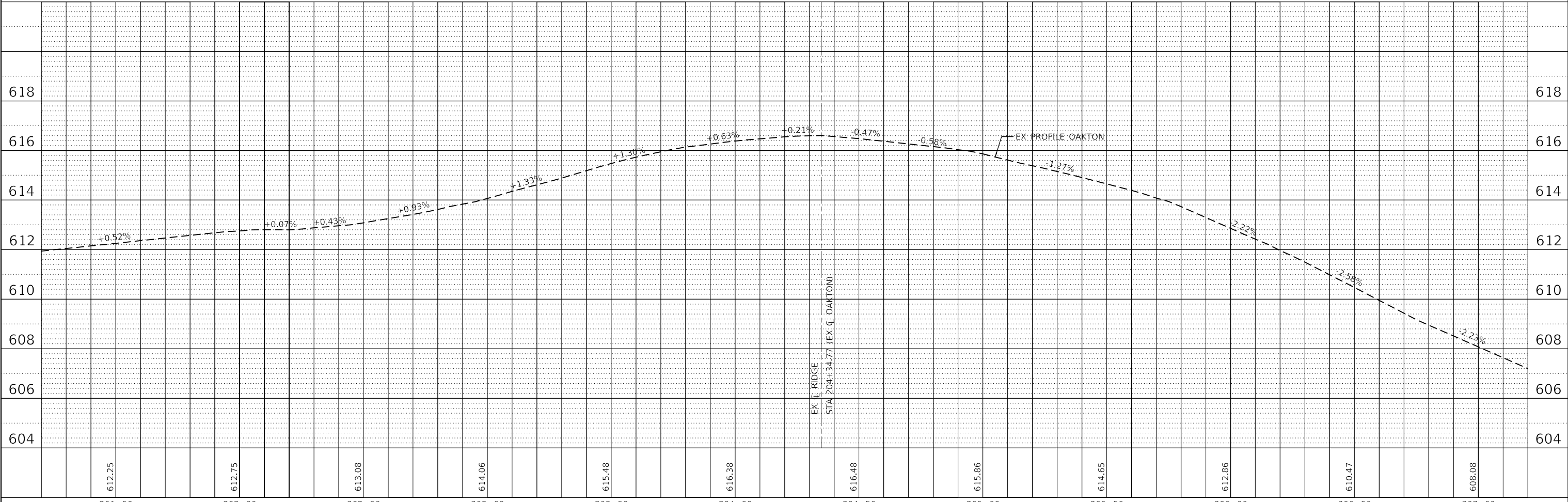
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	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
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PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NO.	

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- NOTES:
1. THE NEW LIGHT POLE FOUNDATION SHALL BE CONSTRUCTED PRIOR TO REMOVAL OF THE EXISTING LIGHT POLE. THE CONTRACTOR SHALL CONFIRM THE BOLT CIRCLE FOR THE LIGHT POLE TO DETERMINE THE DIAMETER OF THE FOUNDATION AND MATCH THE EXISTING FOUNDATION DEPTH. THE FOUNDATION SHALL BE PAID AS CONCRETE FOUNDATION, TYPE A.
 2. THE LIGHT POLE SHALL BE REMOVED, INSTALLED ON THE NEW FOUNDATION, AND RECONNECTED DURING DAYTIME.



612.25	612.75	613.08	614.06	615.48	616.38	616.48	615.86	614.65	612.86	610.47	608.08
201+50	202+00	202+50	203+00	203+50	204+00	204+50	205+00	205+50	206+00	206+50	207+00

Kimley»Horn
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 401 WHEATLAND ROAD, SUITE 800
 WARRENVILLE, IL 60550
 PHONE: 312-461-8800
 WWW.KIMLEY-HORN.COM

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	DRAWN - KKH	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - SS	REVISED -
PLOT DATE = 7/25/2022	DATE - 7/25/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 1"=20'
 SHEET 1 OF 2 SHEETS
 RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
 PROPOSED IMPROVEMENTS - OAKTON STREET

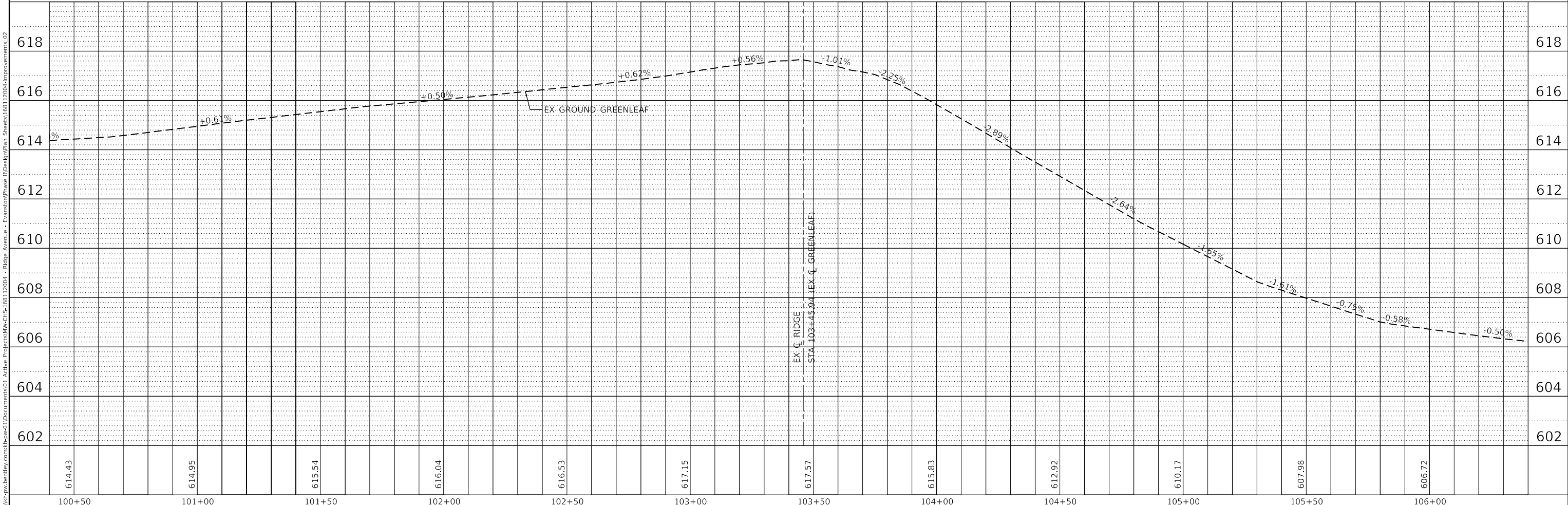
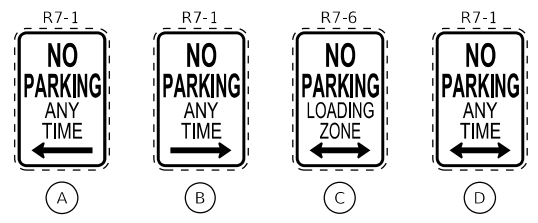
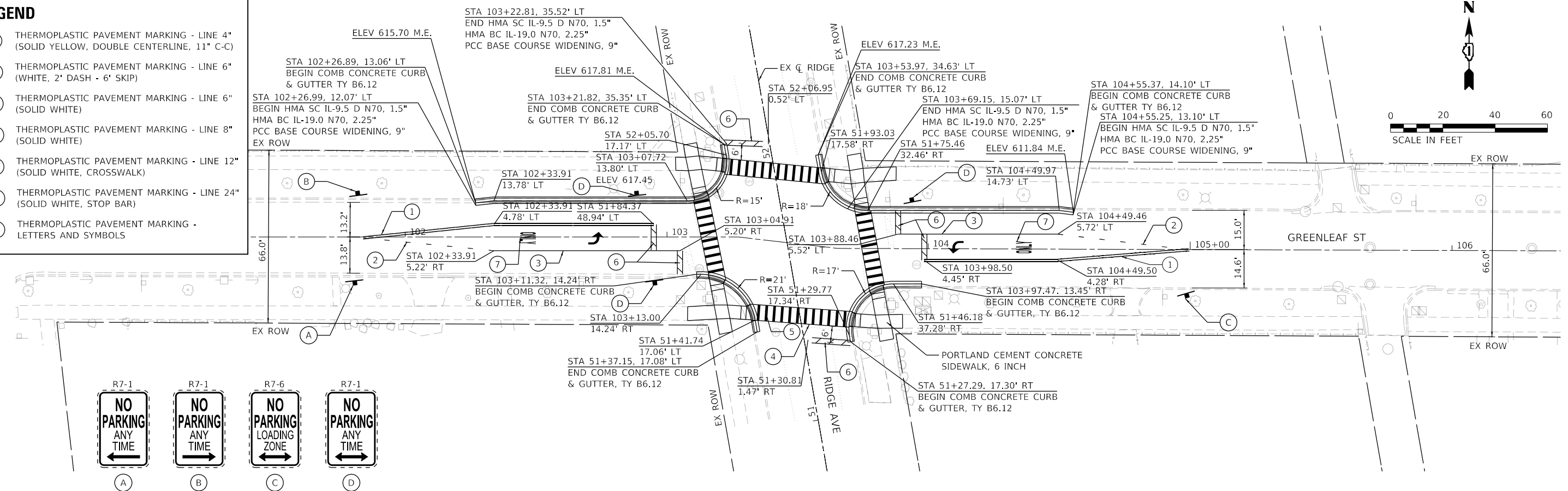
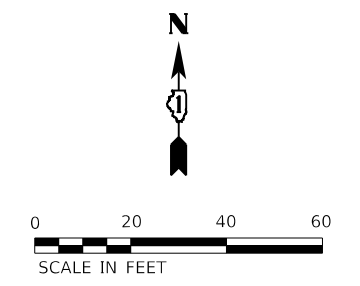
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	12
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				

LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW, DOUBLE CENTERLINE, 11" C-C)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE, 2' DASH - 6' SKIP)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (SOLID WHITE)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID WHITE)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID WHITE, CROSSWALK)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE, STOP BAR)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
NO. _____	BY _____	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOT AT THIS OFFICE	
NO. _____	BY _____	



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USER NAME = Kellen.Hinney	DESIGNED - KKH	REVISED -
	DRAWN - KKH	REVISED -
	CHECKED - SS	REVISED -
	DATE - 7/25/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

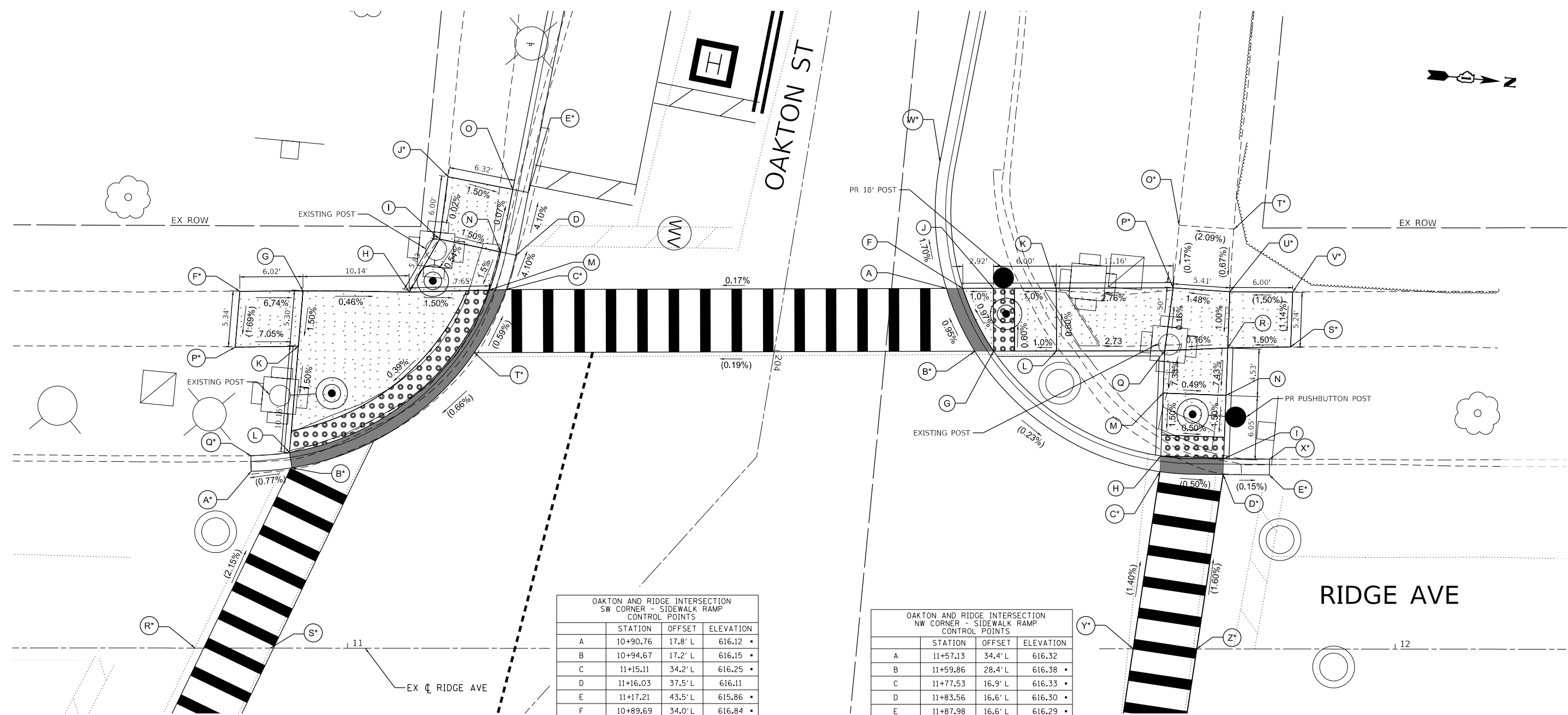
**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
PROPOSED IMPROVEMENTS - GREENLEAF STREET**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	13
CONTRACT NO. 61H94				

ILLINOIS FED. AID PROJECT

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OAKTON AND RIDGE INTERSECTION
SW CORNER - SIDEWALK RAMP
CONTROL POINTS

	STATION	OFFSET	ELEVATION
A	10+90.76	17.8' L	616.12
B	10+94.67	17.2' L	616.15
C	11+15.11	34.2' L	616.25
D	11+16.03	37.5' L	616.11
E	11+17.21	43.5' L	615.86
F	10+89.69	34.0' L	616.84
G	10+95.71	34.1' L	616.43
H	11+05.85	34.0' L	616.39
I	11+08.75	39.1' L	616.42
J	11+09.58	45.0' L	616.42
K	10+95.27	28.8' L	616.32
L	10+94.44	18.7' L	616.17
M	11+13.50	34.2' L	616.27
N	11+14.57	37.8' L	616.33
O	11+15.74	43.8' L	616.33
P	10+89.25	28.7' L	616.75
Q	10+90.75	18.4' L	616.61
R	10+85.44	0.0' L	616.57
S	10+92.66	0.0' L	616.57
T	11+12.07	28.2' L	616.29

OAKTON AND RIDGE INTERSECTION
NW CORNER - SIDEWALK RAMP
CONTROL POINTS

	STATION	OFFSET	ELEVATION
A	11+57.13	34.4' L	616.32
B	11+59.86	28.4' L	616.38
C	11+77.53	16.9' L	616.33
D	11+83.56	16.6' L	616.30
E	11+87.98	16.6' L	616.29
F	11+58.70	34.4' L	616.33
G	11+61.64	28.4' L	616.40
H	11+77.61	18.4' L	616.35
I	11+83.61	18.1' L	616.32
J	11+61.62	34.4' L	616.36
K	11+67.62	34.4' L	616.42
L	11+67.64	28.4' L	616.46
M	11+77.83	24.4' L	616.44
N	11+83.83	24.2' L	616.41
O	11+79.35	40.4' L	616.74
P	11+78.78	34.5' L	616.73
Q	11+77.97	28.5' L	616.74
R	11+83.99	28.7' L	616.75
S	11+90.00	28.8' L	616.84
T	11+84.57	40.1' L	616.85
U	11+84.18	34.1' L	616.81
V	11+90.18	34.1' L	616.90
W	11+56.51	46.5' L	616.11
X	11+88.00	18.1' L	616.74
Y	11+74.99	0.0' L	616.57
Z	11+81.05	0.0' L	616.57

LEGEND

- (A*) XX.XX'• EXISTING ELEVATION
- (A) XX.XX' PROPOSED ELEVATION
- (X%) EXISTING SLOPE
- X% PROPOSED SLOPE
- ⊙ PROPOSED APS PUSH BUTTON
- PROPOSED SIDE CURB
- ▬ PROPOSED DEPRESSED CURB
- ▭ PROPOSED CURB TYPE B-6.12
- ▨ PROPOSED SIDEWALK
- ▩ DETECTABLE WARNINGS
- ⊠ SIDEWALK REMOVAL REPLACE W/ TOPSOIL & SOD

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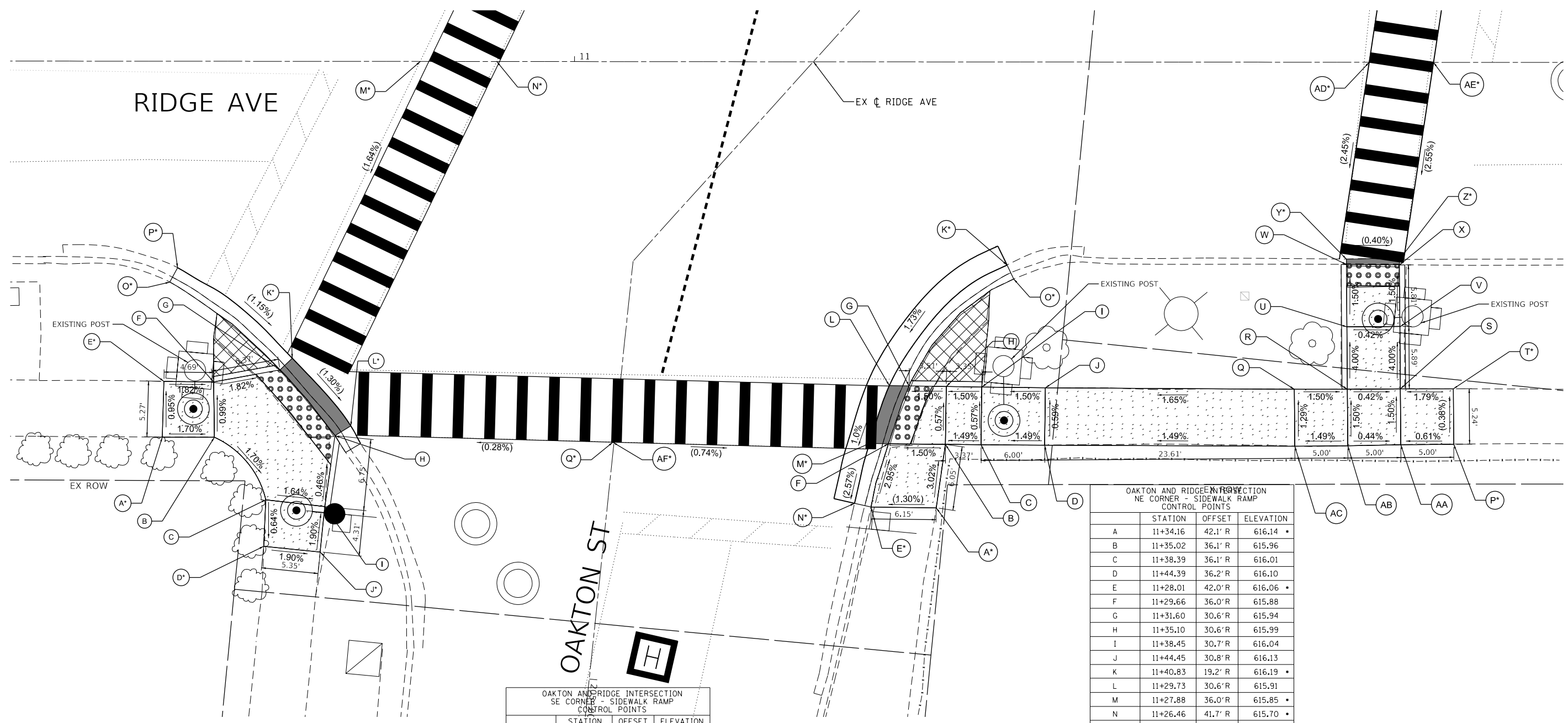
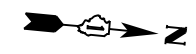
Sam Schwartz
 223 W. JACKSON
 SUITE 1101
 CHICAGO, IL 60606
 TEL: (773) 305-0800

USER NAME = Kellen.Hinney	DESIGNED - ECS	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - ECS	REVISED -
PLOT DATE = 7/25/2022	CHECKED - MAG	REVISED -
	DATE - 06/13/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENT
RIDGE AVENUE & OAKTON STREET RAMP DETAILS (SHEET 1 OF 2)
 SCALE: 1" = 5' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	14
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				



OAKTON AND RIDGE INTERSECTION SE CORNER - SIDEWALK RAMP CONTROL POINTS

STATION	OFFSET	ELEVATION
A	10+61.13	35.5' R 616.35 •
B	10+66.04	35.5' R 616.27
C	10+70.90	41.4' R 616.13
D	10+70.71	45.8' R 616.16 •
E	10+61.28	30.2' R 616.30 •
F	10+65.97	30.3' R 616.21
G	10+72.24	29.1' R 616.10
H	10+77.43	35.3' R 615.96
I	10+76.47	42.0' R 616.04 •
J	10+76.04	46.3' R 616.06 •
K	10+73.38	28.0' R 616.07 •
L	10+78.91	34.4' R 615.96 •
M	10+85.44	0.0' R 616.57 •
N	10+92.66	0.0' R 616.57 •
O	10+61.83	20.9' R 616.47 •
P	10+62.56	19.5' R 616.23 •
Q	11+03.64	35.9' R 616.03 •

OAKTON AND RIDGE INTERSECTION NE CORNER - SIDEWALK RAMP CONTROL POINTS

STATION	OFFSET	ELEVATION
A	11+34.16	42.1' R 616.14 •
B	11+35.02	36.1' R 615.96
C	11+38.39	36.1' R 616.01
D	11+44.39	36.2' R 616.10
E	11+28.01	42.0' R 616.06 •
F	11+29.66	36.0' R 615.88
G	11+31.60	30.6' R 615.94
H	11+35.10	30.6' R 615.99
I	11+38.45	30.7' R 616.04
J	11+44.45	30.8' R 616.13
K	11+40.83	19.2' R 616.19 •
L	11+29.73	30.6' R 615.91
M	11+27.88	36.0' R 615.85 •
N	11+26.46	41.7' R 615.70 •
O	11+41.46	20.5' R 616.67 •
P	11+82.99	36.1' R 616.53 •
Q	11+67.95	30.9' R 616.52
R	11+72.95	30.9' R 616.44
S	11+77.95	30.8' R 616.42
T	11+82.95	30.8' R 616.51 •
U	11+72.91	25.0' R 616.21
V	11+77.91	24.9' R 616.18
W	11+72.86	19.1' R 616.12
X	11+77.86	19.1' R 616.10
Y	11+72.86	18.6' R 616.11 •
Z	11+77.86	18.6' R 616.09 •
AA	11+77.99	36.1' R 616.50
AB	11+73.00	36.2' R 616.52
AC	11+68.00	36.0' R 616.45
AD	11+74.99	0.0' R 616.57 •
AE	11+81.05	0.0' R 616.57 •
AF	11+03.64	35.9' R 616.03 •

LEGEND

- (A*) XX.XX'• EXISTING ELEVATION
- (A) XX.XX' PROPOSED ELEVATION
- (X%) EXISTING SLOPE
- X% PROPOSED SLOPE
- ⊙ PROPOSED APS PUSH BUTTON
- PROPOSED SIDE CURB
- ▬ PROPOSED DEPRESSED CURB
- ▭ PROPOSED CURB TYPE B-6.12
- ▨ PROPOSED SIDEWALK
- ▩ DETECTABLE WARNINGS
- ▧ SIDEWALK REMOVAL REPLACE W/ TOPSOIL & SOD

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 Sam Schwartz 223 W. JACKSON SUITE 1101 CHICAGO, IL 60606 TEL: (773) 305-0800

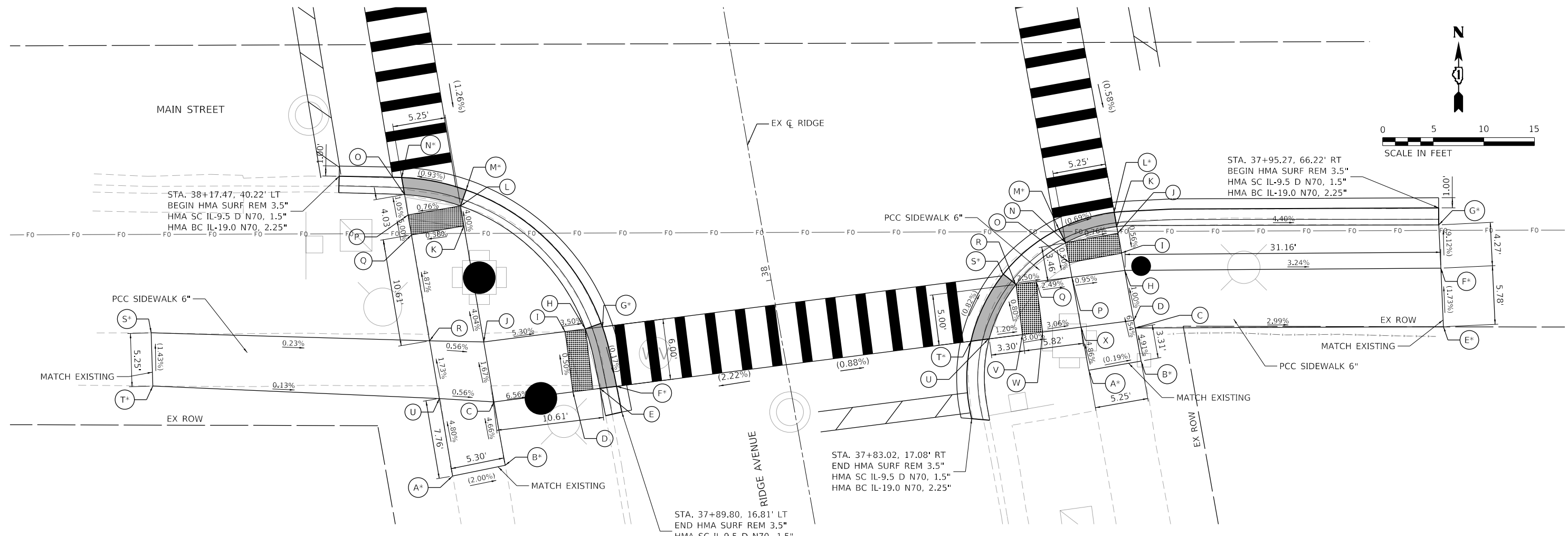
Sam Schwartz
 223 W. JACKSON
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USER NAME = Kellen.Hinney	DESIGNED - ECS	REVISD -
PLOT SCALE = 10.0000' / in.	DRAWN - ECS	REVISD -
PLOT DATE = 7/25/2022	CHECKED - MAG	REVISD -
	DATE - 06/13/2022	REVISD -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENT
 RIDGE AVENUE & OAKTON STREET RAMP DETAILS (SHEET 2 OF 2)**
 SCALE: 1" = 5' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 2744	SECTION 19-00284-00-CH	COUNTY COOK	TOTAL SHEETS 59	SHEET NO. 15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H94	



MAIN AND RIDGE INTERSECTION
SW CORNER - SIDEWALK RAMP
CONTROL POINTS

POINT	STATION	OFFSET (LT)	ELEVATION
A	37+86.56	34.36	616.89 *
B	37+86.67	29.07	616.83 *
C	37+93.02	29.04	616.61
D	37+92.58	20.52	616.05
E	37+92.48	18.51	616.02
F	37+92.39	16.86	616.00 *
G	37+98.33	17.19	616.01 *
H	37+98.42	18.90	616.01
I	37+98.82	20.96	616.08
J	37+98.89	29.00	616.51
K	38+10.23	28.94	616.04
L	38+12.51	28.93	615.96
M	38+13.96	28.11	615.95 *
N	38+16.27	34.17	615.89 *
O	38+14.56	34.17	615.90
P	38+12.66	34.17	615.92
Q	38+10.65	34.19	616.02
R	37+99.93	34.24	616.54
S	37+97.10	43.62	616.71 *
T	38+02.12	42.81	616.77 *
U	37+94.32	34.28	616.62

MAIN AND RIDGE INTERSECTION
SE CORNER - SIDEWALK RAMP
CONTROL POINTS

POINT	STATION	OFFSET (RT)	ELEVATION
A	37+85.67	29.29	616.24 *
B	37+85.64	34.54	616.23 *
C	37+88.95	34.54	615.98
D	37+89.71	34.54	616.03
E	37+83.67	64.51	615.07 *
F	37+89.40	65.28	614.97 *
G	37+93.64	65.84	614.58 *
H	37+94.72	34.54	615.98
I	37+96.63	34.53	615.99
J	37+98.63	34.52	616.00
K	37+99.29	34.52	616.00
L	38+00.71	34.61	616.01 *
M	38+00.04	28.84	616.05 *
N	37+98.61	29.27	616.04
O	37+96.59	29.29	616.03
P	37+94.99	29.29	616.03
Q	37+95.18	25.73	616.12
R	37+95.29	23.68	616.17
S	37+96.58	22.64	616.18 *
T	37+90.56	18.36	616.24 *
U	37+90.47	20.10	616.25
V	37+90.29	23.42	616.21
W	37+90.19	25.47	616.15
X	37+89.99	29.29	616.03

LEGEND

- DETECTABLE WARNING
- DEPRESSED CURB & GUTTER
- PROPOSED ELEVATION
- EXISTING ELEVATION
- SIDEWALK/PAVEMENT GRADE
- EXISTING GRADE
- CC&G, TYPE B-6.12
- TRAFFIC SIGNAL POST
- PEDESTRIAN SIGNAL POST
- SIDE CURB

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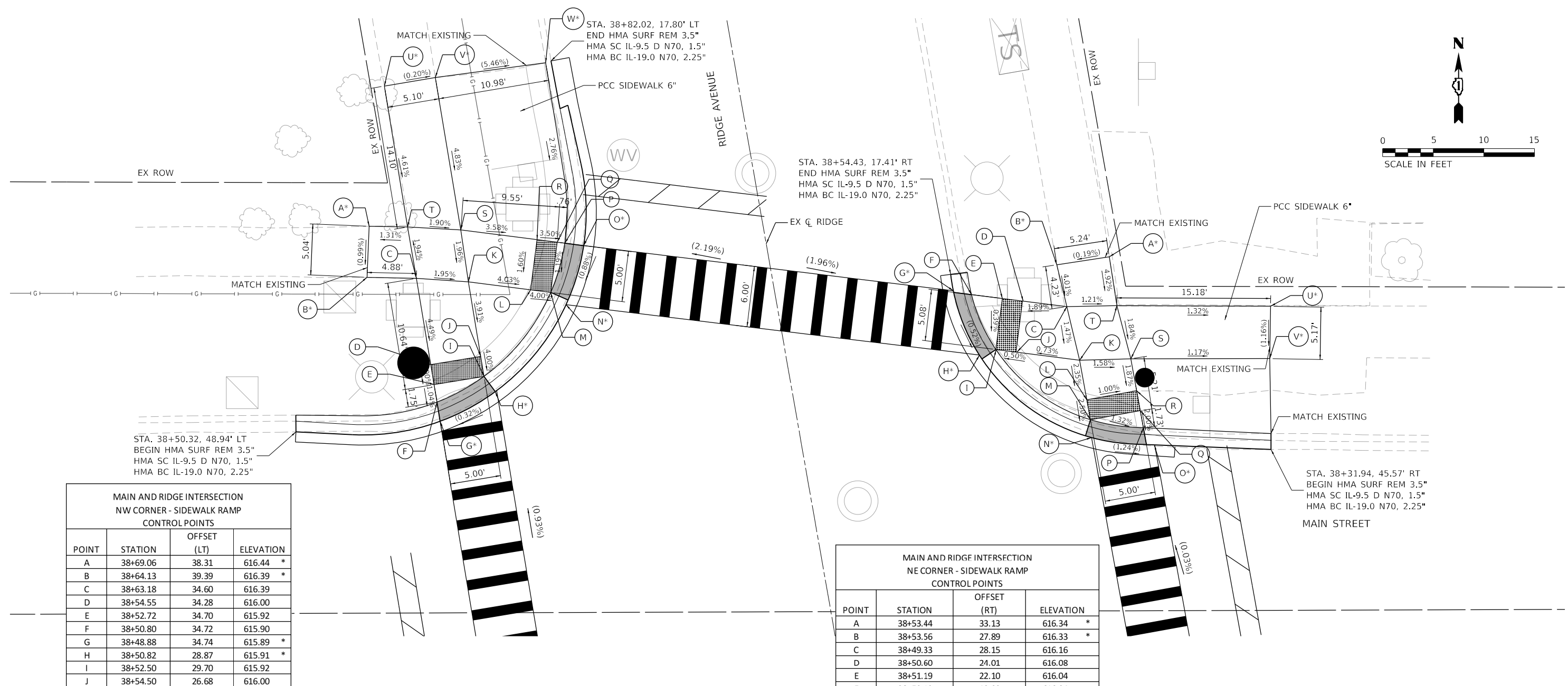
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
RIDGE AVENUE & MAIN STREET INTERSECTION RAMP DETAILS

SCALE: 1"=5' SHEET 3 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	16
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				



**MAIN AND RIDGE INTERSECTION
NW CORNER - SIDEWALK RAMP
CONTROL POINTS**

POINT	STATION	OFFSET (LT)	ELEVATION
A	38+69.06	38.31	616.44 *
B	38+64.13	39.39	616.39 *
C	38+63.18	34.60	616.39
D	38+54.55	34.28	616.00
E	38+52.72	34.70	615.92
F	38+50.80	34.72	615.90
G	38+48.88	34.74	615.89 *
H	38+50.82	28.87	615.91 *
I	38+52.50	29.70	615.92
J	38+54.50	26.68	616.00
K	38+61.95	29.61	616.29
L	38+60.11	23.70	616.04
M	38+59.52	21.79	615.96
N	38+58.07	20.50	615.95 *
O	38+63.51	17.78	616.01 *
P	38+64.06	19.57	616.02
Q	38+64.29	20.30	616.05
R	38+64.81	22.22	616.12
S	38+67.06	29.46	616.39
T	38+68.33	34.58	616.49
U	38+82.43	34.43	617.14 *
V	38+82.39	29.33	617.13 *
W	38+81.93	18.35	616.53 *

**MAIN AND RIDGE INTERSECTION
NE CORNER - SIDEWALK RAMP
CONTROL POINTS**

POINT	STATION	OFFSET (RT)	ELEVATION
A	38+53.44	33.13	616.34 *
B	38+53.56	27.89	616.33 *
C	38+49.33	28.15	616.16
D	38+50.60	24.01	616.08
E	38+51.19	22.10	616.04
F	38+52.12	19.09	616.04
G	38+52.81	17.39	616.05 *
H	38+46.09	18.82	616.01 *
I	38+46.33	20.60	616.02
J	38+45.74	22.51	616.03
K	38+43.88	28.48	616.08
L	38+39.92	28.51	615.99
M	38+37.92	28.52	615.94
N	38+36.16	28.32	615.93 *
O	38+34.30	34.33	615.85 *
P	38+36.22	33.53	615.87
Q	38+37.95	33.52	615.90
R	38+39.95	33.51	615.94
S	38+43.15	33.49	616.00
T	38+48.56	33.03	616.10
U	38+45.87	47.97	615.90 *
V	38+40.80	46.99	615.84 *

LEGEND

- DETECTABLE WARNING
- DEPRESSED CURB & GUTTER
- PROPOSED ELEVATION
- EXISTING ELEVATION
- SIDEWALK/PAVEMENT GRADE
- EXISTING GRADE
- CC&G, TYPE B-6.12
- TRAFFIC SIGNAL POST
- PEDESTRIAN SIGNAL POST
- SIDE CURB

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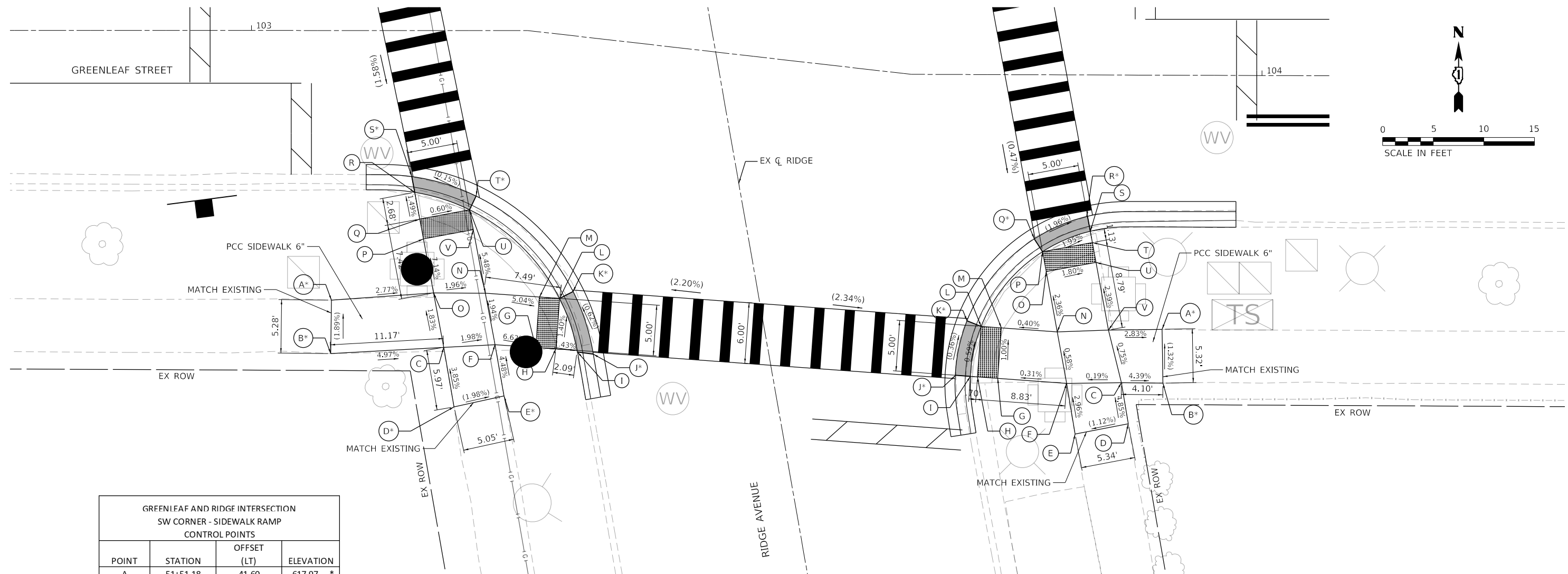
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
RIDGE AVENUE & MAIN STREET INTERSECTION RAMP DETAILS**

SCALE: 1"=5' SHEET 4 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	17
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				



**GREENLEAF AND RIDGE INTERSECTION
SW CORNER - SIDEWALK RAMP
CONTROL POINTS**

POINT	STATION	OFFSET (LT)	ELEVATION
A	51+51.18	41.60	617.97 *
B	51+45.99	42.58	618.07 *
C	51+44.67	31.49	617.79
D	51+38.70	31.50	618.02 *
E	51+38.92	26.46	617.92 *
F	51+44.05	26.46	617.69
G	51+43.08	22.54	617.42
H	51+42.60	20.60	617.29
I	51+42.10	18.56	617.28
J	51+41.45	17.06	617.25 *
K	51+47.89	17.96	617.21 *
L	51+47.45	19.39	617.22
M	51+47.93	21.34	617.32
N	51+49.22	26.52	617.59
O	51+50.13	31.55	617.69
P	51+55.55	31.61	617.30
Q	51+57.55	31.63	617.16
R	51+60.23	31.66	617.12
S	51+61.82	31.68	617.11 *
T	51+58.83	25.75	617.12 *
U	51+57.61	26.63	617.13
V	51+55.61	26.61	617.24

**GREENLEAF AND RIDGE INTERSECTION
SE CORNER - SIDEWALK RAMP
CONTROL POINTS**

POINT	STATION	OFFSET (RT)	ELEVATION
A	51+34.14	38.66	616.94 *
B	51+28.89	37.83	617.01 *
C	51+29.65	33.80	617.19
D	51+25.53	33.76	617.39 *
E	51+25.45	28.42	617.33 *
F	51+30.52	28.46	617.18
G	51+32.18	21.84	617.16
H	51+32.67	19.90	617.15
I	51+32.84	19.22	617.15
J	51+33.17	17.76	617.14 *
K	51+38.30	19.84	617.12 *
L	51+37.52	21.12	617.12
M	51+37.03	23.06	617.11
N	51+35.68	28.43	617.15
O	51+41.74	28.38	617.02
P	51+43.74	28.37	616.96
Q	51+45.12	27.79	616.96
R	51+46.40	33.26	616.85
S	51+44.91	33.36	616.86
T	51+43.78	33.37	616.88
U	51+41.78	33.38	616.92
V	51+34.98	33.43	617.09

LEGEND

- DETECTABLE WARNING
- DEPRESSED CURB & GUTTER
- PROPOSED ELEVATION
- EXISTING ELEVATION
- SIDEWALK/PAVEMENT GRADE
- EXISTING GRADE
- CC&G, TYPE B-6.12
- TRAFFIC SIGNAL POST
- PEDESTRIAN SIGNAL POST
- SIDE CURB

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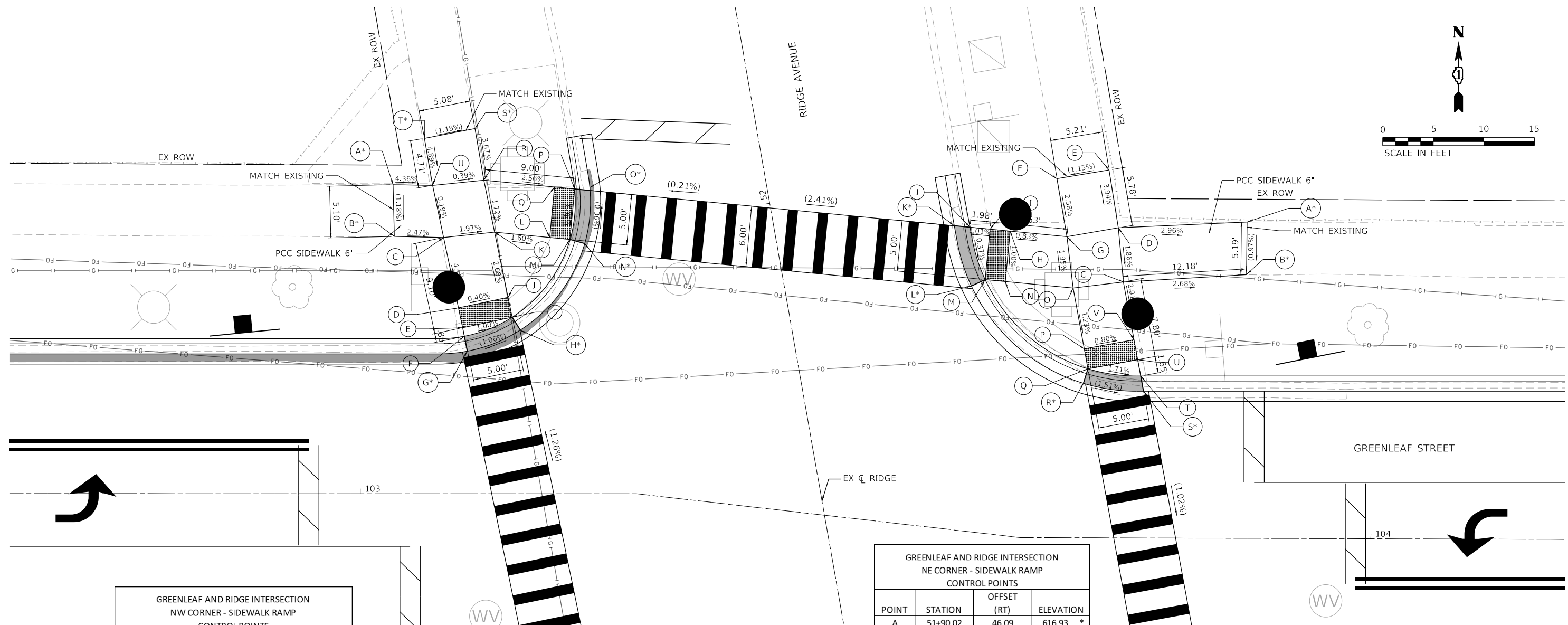
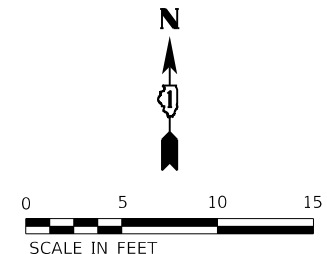
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
RIDGE AVENUE & GREENLEAF STREET INTERSECTION RAMP DETAILS**

SCALE: 1"=5' SHEET 5 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	18
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				



**GREENLEAF AND RIDGE INTERSECTION
NW CORNER - SIDEWALK RAMP
CONTROL POINTS**

POINT	STATION	OFFSET (LT)	ELEVATION
A	52+08.24	36.30	618.14 *
B	52+03.20	37.06	618.08 *
C	52+02.25	32.29	617.96
D	51+95.16	32.05	617.66
E	51+93.16	31.98	617.58
F	51+92.29	31.96	617.57
G	51+90.79	31.93	617.56 *
H	51+91.94	26.41	617.62 *
I	51+93.33	26.98	617.63
J	51+95.33	27.04	617.68
K	52+01.90	27.24	617.86
L	52+00.44	21.97	617.77
M	51+99.90	20.02	617.74
N	51+99.24	18.67	617.73 *
O	52+04.61	17.21	617.71 *
P	52+04.73	18.71	617.72
Q	52+05.26	20.64	617.77
R	52+07.13	27.38	617.95
S	52+12.31	27.37	618.14 *
T	52+12.21	32.45	618.20 *
U	52+07.51	32.47	617.97

**GREENLEAF AND RIDGE INTERSECTION
NE CORNER - SIDEWALK RAMP
CONTROL POINTS**

POINT	STATION	OFFSET (RT)	ELEVATION
A	51+90.02	46.09	616.93 *
B	51+84.92	45.14	616.88 *
C	51+86.31	33.05	617.21
D	51+91.66	33.48	617.31
E	51+97.44	33.56	617.52 *
F	51+97.49	28.35	617.46 *
G	51+91.68	28.33	617.31
H	51+93.19	22.91	617.26
I	51+93.72	20.98	617.25
J	51+94.25	19.07	617.23
K	51+94.67	17.56	617.22 *
L	51+88.51	18.19	617.22 *
M	51+88.90	19.64	617.21
N	51+88.37	21.57	617.21
O	51+86.57	28.05	617.21
P	51+80.48	28.09	617.13
Q	51+78.48	28.11	617.11
R	51+77.14	27.43	617.10 *
S	51+75.34	33.13	617.01 *
T	51+76.87	33.12	617.02
U	51+78.51	33.11	617.05
V	51+80.51	33.09	617.09

LEGEND

- DETECTABLE WARNING
- DEPRESSED CURB & GUTTER
- PROPOSED ELEVATION
- EXISTING ELEVATION
- SIDEWALK/PAVEMENT GRADE
- EXISTING GRADE
- CC&G, TYPE B-6.12
- TRAFFIC SIGNAL POST
- PEDESTRIAN SIGNAL POST
- SIDE CURB

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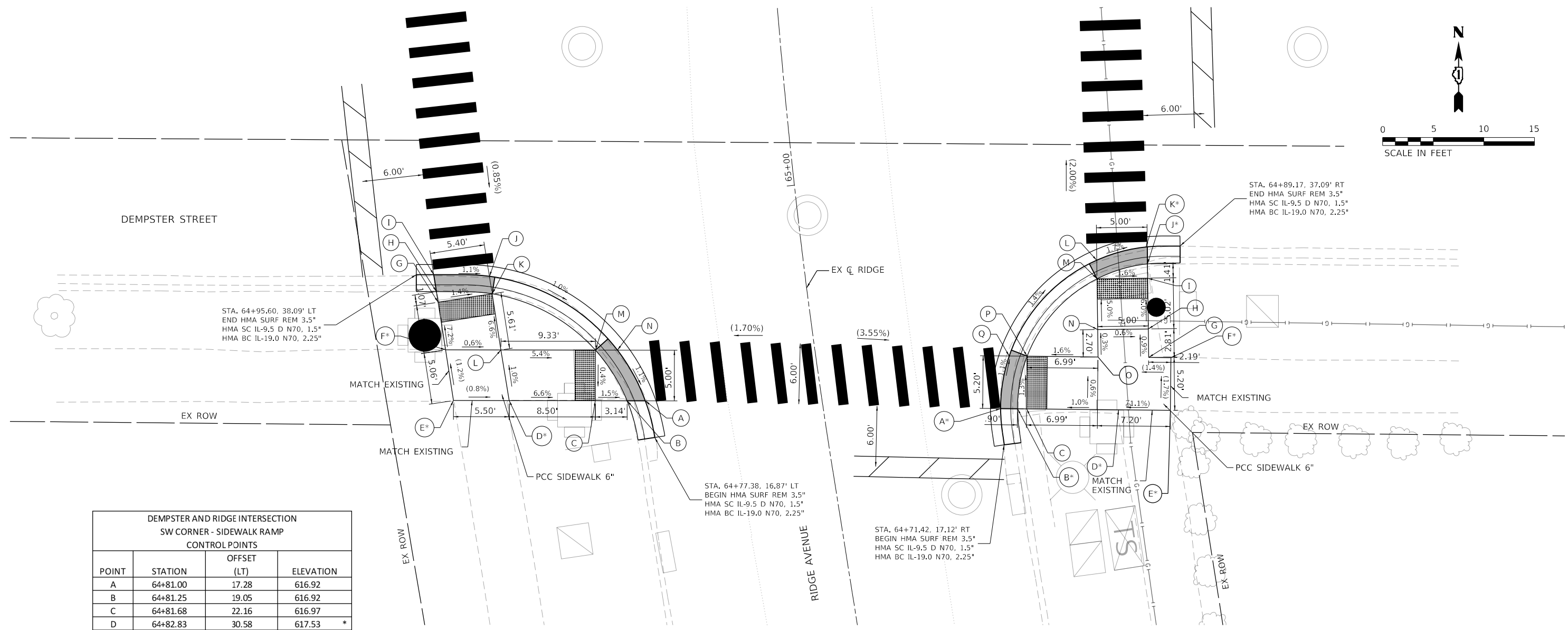
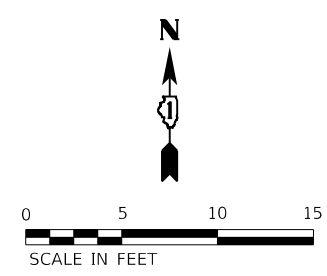
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	DATE - 7/25/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
RIDGE AVENUE & GREENLEAF STREET INTERSECTION RAMP DETAILS**

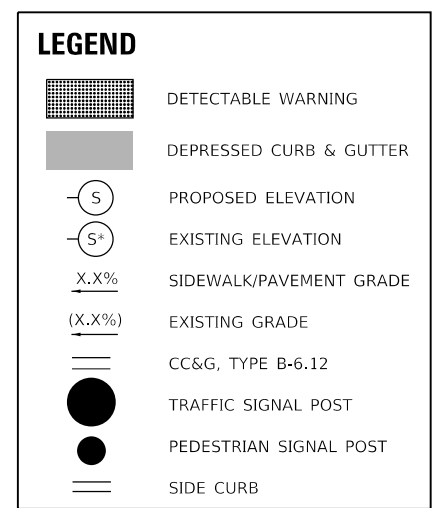
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2744	19-00284-00-CH	COOK	59	19
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=5' SHEET 6 OF 14 SHEETS STA. TO STA.



POINT	STATION	OFFSET (LT)	ELEVATION
A	64+81.00	17.28	616.92
B	64+81.25	19.05	616.92
C	64+81.68	22.16	616.97
D	64+82.83	30.58	617.53 *
E	64+83.55	36.02	617.57 *
F	64+88.33	36.13	617.51 *
G	64+92.81	36.27	617.19
H	64+93.81	36.31	617.17
I	64+95.41	36.37	617.17
J	64+94.64	30.93	617.11
K	64+92.98	30.87	617.11
L	64+87.64	30.71	617.48
M	64+86.46	21.47	616.98
N	64+86.17	19.32	616.98
O	65+13.78	36.61	617.38 *
P	65+13.17	30.64	617.25 *

POINT	STATION	OFFSET (RT)	ELEVATION
A	64+75.11	17.31	616.00
B	64+74.83	18.96	616.00
C	64+74.68	19.84	616.01
D	64+74.14	28.8	616.10 *
E	64+72.25	33.84	616.16 *
F	64+77.69	34.68	616.07 *
G	64+78.05	32.51	616.04
H	64+81.00	32.882	616.01
I	64+86.27	33.51	615.71
J	64+87.75	33.67	615.70 *
K	64+89.49	33.87	615.70 *
L	64+88.82	28.76	615.79
M	64+86.90	28.54	615.79
N	64+81.68	27.92	616.04
O	64+78.87	27.57	616.05
P	64+79.99	20.6612	615.94
Q	6480.27	18.91	615.94



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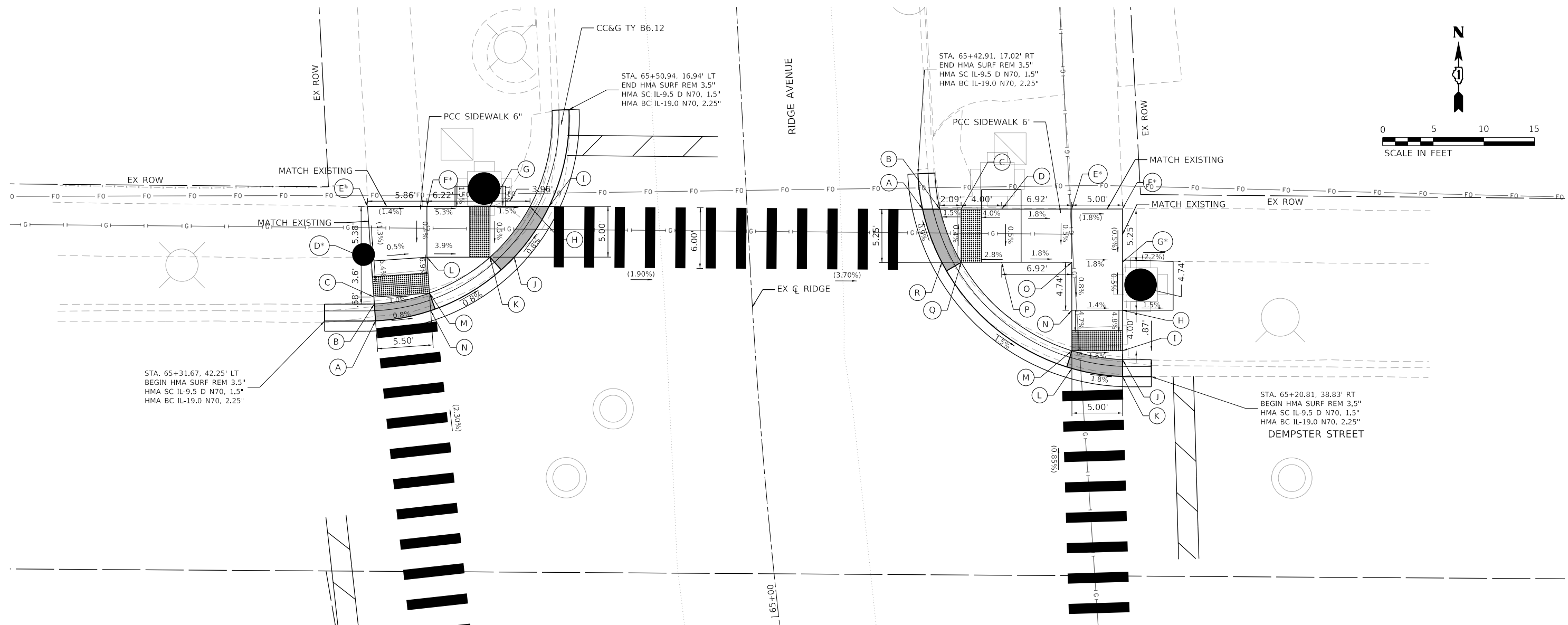
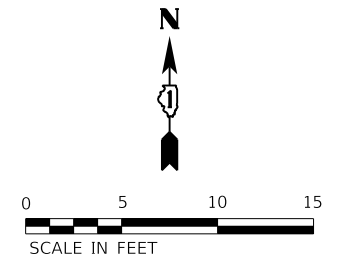
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
RIDGE AVENUE & DEMPSTER STREET INTERSECTION RAMP DETAILS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	20
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=5' SHEET 7 OF 14 SHEETS STA. TO STA.



STA. 65+31.67, 42.25' LT
 BEGIN HMA SURF REM 3.5"
 HMA SC IL-9.5 D N70, 1.5"
 HMA BC IL-19.0 N70, 2.25"

CC&G TY B6.12
 STA. 65+50.94, 16.94' LT
 END HMA SURF REM 3.5"
 HMA SC IL-9.5 D N70, 1.5"
 HMA BC IL-19.0 N70, 2.25"

STA. 65+42.91, 17.02' RT
 END HMA SURF REM 3.5"
 HMA SC IL-9.5 D N70, 1.5"
 HMA BC IL-19.0 N70, 2.25"

STA. 65+20.81, 38.83' RT
 BEGIN HMA SURF REM 3.5"
 HMA SC IL-9.5 D N70, 1.5"
 HMA BC IL-19.0 N70, 2.25"

**DEMPSTER AND RIDGE INTERSECTION
 NW CORNER - SIDEWALK RAMP
 CONTROL POINTS**

POINT	STATION	OFFSET (LT)	ELEVATION
A	65+31.42	37.22	616.86
B	65+33.00	37.24	616.86
C	65+33.64	37.25	616.87
D	65+37.14	37.31	617.10 *
E	65+42.53	37.41	617.17 *
F	65+42.23	31.55	617.09 *
G	65+41.90	25.34	616.76
H	65+41.70	21.39	616.70
I	65+41.60	19.52	616.70
J	65+36.78	23.21	616.73
K	65+36.78	23.21	616.73
L	65+37.23	31.81	617.07
M	65+33.72	31.75	616.82
N	65+32.08	31.73	616.82

**DEMPSTER AND RIDGE INTERSECTION
 NE CORNER - SIDEWALK RAMP
 CONTROL POINTS**

POINT	STATION	OFFSET (RT)	ELEVATION
A	65+39.40	17.3	615.57
B	65+39.31	19.01	615.57
C	65+39.20	21.09	615.60
D	65+38.98	25.09	615.76
E	65+38.64	32	615.64 *
F	65+38.38	37	615.55 *
G	65+33.04	36.72	615.52 *
H	65+28.00	36.45	615.50
I	65+23.75	36.18	615.29
J	65+22.83	36.12	615.28
K	65+21.05	36	615.28
L	65+22.28	31.07	615.37
M	65+24.12	31.19	615.37
N	65+28.33	31.46	615.57
O	65+33.33	31.73	615.61
P	65+33.71	24.82	615.73
Q	6533.93	20.82	615.62
R	6534.04	18.92	615.62

LEGEND

- DETECTABLE WARNING
- DEPRESSED CURB & GUTTER
- PROPOSED ELEVATION
- EXISTING ELEVATION
- SIDEWALK/PAVEMENT GRADE
- EXISTING GRADE
- CC&G, TYPE B-6.12
- TRAFFIC SIGNAL POST
- PEDESTRIAN SIGNAL POST
- SIDE CURB

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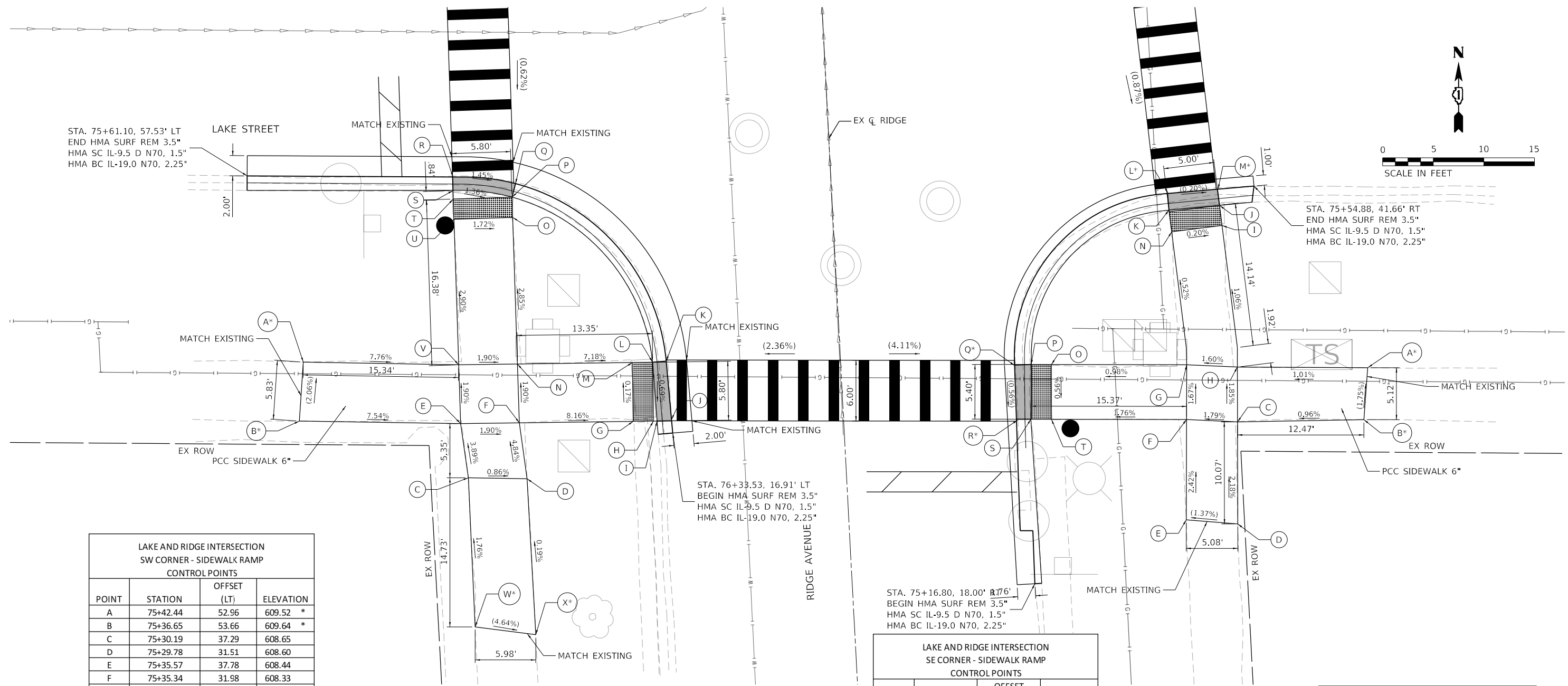
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
 RIDGE AVENUE & DEMPSTER STREET INTERSECTION RAMP DETAILS**

SCALE: 1"=5' SHEET 8 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	21
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				



STA. 75+61.10, 57.53' LT
END HMA SURF REM 3.5"
HMA SC IL-9.5 D N70, 1.5"
HMA BC IL-19.0 N70, 2.25"

STA. 75+54.88, 41.66' RT
END HMA SURF REM 3.5"
HMA SC IL-9.5 D N70, 1.5"
HMA BC IL-19.0 N70, 2.25"

STA. 76+33.53, 16.91' LT
BEGIN HMA SURF REM 3.5"
HMA SC IL-9.5 D N70, 1.5"
HMA BC IL-19.0 N70, 2.25"

STA. 75+16.80, 18.00' RT
BEGIN HMA SURF REM 3.5"
HMA SC IL-9.5 D N70, 1.5"
HMA BC IL-19.0 N70, 2.25"

LAKE AND RIDGE INTERSECTION
SW CORNER - SIDEWALK RAMP
CONTROL POINTS

POINT	STATION	OFFSET (LT)	ELEVATION
A	75+42.44	52.96	609.52 *
B	75+36.65	53.66	609.64 *
C	75+30.19	37.29	608.65
D	75+29.78	31.51	608.60
E	75+35.57	37.78	608.44
F	75+35.34	31.98	608.33
G	75+34.90	20.75	607.41
H	75+34.82	18.75	607.25
I	75+34.81	18.39	607.22
J	75+34.86	16.96	607.21
K	75+40.62	17.17	607.25
L	75+40.61	18.51	607.26
M	75+40.69	20.52	607.40
N	75+41.14	31.86	608.22
O	75+55.54	31.61	607.81
P	75+57.63	31.53	607.75
Q	75+58.94	31.12	607.74
R	75+59.91	37.24	607.83
S	75+58.59	37.32	607.83
T	75+57.70	37.41	607.85
U	75+55.70	37.41	607.91
V	75+41.37	37.66	608.33
W	75+15.45	37.39	608.91 *
X	75+1436	31.46	608.63 *

LAKE AND RIDGE INTERSECTION
SE CORNER - SIDEWALK RAMP
CONTROL POINTS

POINT	STATION	OFFSET (RT)	ELEVATION
A	75+36.37	51.94	606.27 *
B	75+31.28	51.29	606.36 *
C	75+31.72	38.82	606.24
D	75+21.65	38.32	606.46 *
E	75+22.32	33.26	606.39 *
F	75+32.17	33.92	606.15
G	75+37.59	34.28	606.06
H	75+37.11	39.09	606.14
I	75+51.16	38.31	605.99
J	75+53.15	38.17	605.97
K	75+52.93	33.17	605.98
L	75+54.60	33.17	605.97 *
M	75+54.76	38.11	605.96 *
N	75+50.80	33.37	605.99
O	75+38.33	20.78	605.93
P	75+38.43	18.78	605.91
Q	75+38.42	17.15	605.90 *
R	75+33.03	17.15	605.87 *
S	75+33.04	18.47	605.88
T	75+32.93	20.49	605.92

LEGEND

	DETECTABLE WARNING
	DEPRESSED CURB & GUTTER
	PROPOSED ELEVATION
	EXISTING ELEVATION
	SIDEWALK/PAVEMENT GRADE
	EXISTING GRADE
	CC&G, TYPE B-6.12
	TRAFFIC SIGNAL POST
	PEDESTRIAN SIGNAL POST
	SIDE CURB

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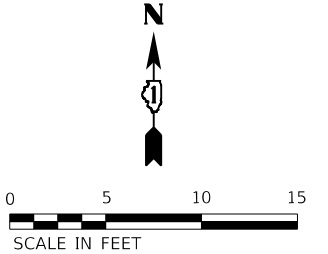
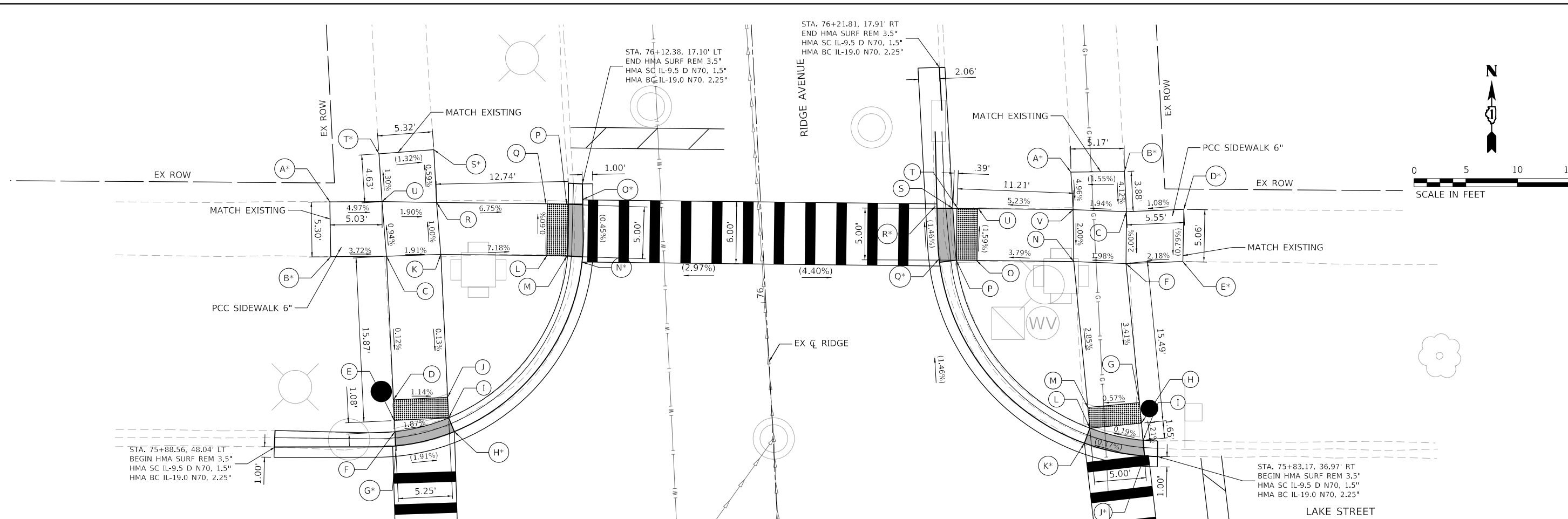
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PLOT DATE = 7/25/2022	CHECKED - SS	REVISED -
	DATE - 7/25/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
RIDGE AVENUE & LAKE STREET INTERSECTION RAMP DETAILS**

SCALE: 1"=5' SHEET 9 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H94	



**LAKE AND RIDGE INTERSECTION
NW CORNER - SIDEWALK RAMP
CONTROL POINTS**

POINT	STATION	OFFSET (LT)	ELEVATION
A	76+11.93	41.51	608.38 *
B	76+06.63	41.71	608.38 *
C	76+06.38	36.33	608.18
D	75+92.51	36.40	608.11
E	75+90.51	36.41	608.11
F	75+89.43	36.41	608.16
G	75+88.05	36.35	608.17 *
H	75+89.14	30.69	608.06 *
I	75+90.49	31.16	608.06
J	75+92.50	31.15	608.05
K	76+06.30	31.09	608.08
L	76+05.65	20.86	607.33
M	76+05.51	18.86	607.20
N	76+04.85	17.52	607.19 *
O	76+10.86	17.15	607.16 *
P	76+10.51	18.53	607.17
Q	76+10.65	20.70	607.32
R	76+11.32	31.24	608.03
S	76+16.43	31.23	608.00 *
T	76+16.31	36.54	608.07 *
U	76+11.68	36.49	608.13

**LAKE AND RIDGE INTERSECTION
NE CORNER - SIDEWALK RAMP
CONTROL POINTS**

POINT	STATION	OFFSET (RT)	ELEVATION
A	76+11.03	30.06	606.58 *
B	76+10.82	35.22	606.66 *
C	76+06.93	35.21	606.50
D	76+06.88	40.76	606.56 *
E	76+01.83	40.40	606.52 *
F	76+01.94	34.90	606.40
G	75+88.47	35.50	605.94
H	75+86.47	35.59	605.87
I	75+84.82	35.66	605.85
J	75+83.29	35.73	605.84 *
K	75+84.83	29.99	605.83 *
L	75+86.25	30.59	605.84
M	75+88.25	30.50	605.91
N	76+02.40	29.88	606.30
O	76+03.00	20.51	605.94
P	76+03.13	18.56	605.87
Q	76+02.64	16.94	605.85 *
R	76+08.61	16.82	605.78 *
S	76+08.15	18.43	605.79
T	76+08.06	19.01	605.82
U	76+07.98	20.97	605.92
V	76+07.40	30.08	606.40

LEGEND

- DETECTABLE WARNING
- DEPRESSED CURB & GUTTER
- PROPOSED ELEVATION
- EXISTING ELEVATION
- SIDEWALK/PAVEMENT GRADE
- EXISTING GRADE
- CC&G, TYPE B-6.12
- TRAFFIC SIGNAL POST
- PEDESTRIAN SIGNAL POST
- SIDE CURB

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PLOT DATE = 7/25/2022	CHECKED - SS	REVISED -
	DATE - 7/25/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
RIDGE AVENUE & LAKE STREET INTERSECTION RAMP DETAILS**

SCALE: 1"=5' SHEET 10 OF 14 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	23
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				

STA. 86+19.63, 52.81' LT
 END HMA SURF REM 3.5"
 HMA SC IL-9.5 D N70, 1.5"
 HMA BC IL-19.0 N70, 2.25"

STA. 86+19.22, 41.12' RT
 END HMA SURF REM 3.5"
 HMA SC IL-9.5 D N70, 1.5"
 HMA BC IL-19.0 N70, 2.25"











STA. 85+95.23, 16.97' LT
 BEGIN HMA SURF REM 3.5"
 HMA SC IL-9.5 D N70, 1.5"
 HMA BC IL-19.0 N70, 2.25"

STA. 85+92.70, 17.59' RT
 BEGIN HMA SURF REM 3.5"
 HMA SC IL-9.5 D N70, 1.5"
 HMA BC IL-19.0 N70, 2.25"

POINT	STATION	OFFSET (LT)	ELEVATION
A	86+03.66	48.26	609.86 *
B	85+98.73	48.45	609.92 *
C	85+97.87	38.22	609.41
D	85+80.55	37.54	609.32 *
E	85+80.84	32.69	609.23 *
F	85+97.64	32.72	609.30
G	85+97.19	22.37	608.60
H	85+97.10	20.37	608.46
I	85+97.02	18.62	608.34
J	85+96.96	17.15	608.33 *
K	86+02.92	18.75	608.34 *
L	86+02.34	20.15	608.35
M	86+02.43	22.14	608.49
N	86+02.89	32.67	609.25
O	86+12.79	32.57	608.67
P	86+14.79	32.55	608.55
Q	86+16.22	31.95	608.54 *
R	86+17.89	38.02	608.60 *
S	86+16.35	38.04	608.61
T	86+14.84	38.05	608.70
U	86+12.84	38.07	608.81
V	86+03.13	38.17	609.36

POINT	STATION	OFFSET (RT)	ELEVATION
A	85+98.39	40.97	607.69 *
B	85+93.22	40.75	607.73 *
C	85+93.47	34.82	607.72
D	85+83.51	35.89	607.76 *
E	85+83.54	30.55	607.77 *
F	85+93.87	29.34	607.68
G	85+94.48	21.14	607.62
H	85+94.63	19.14	607.61
I	85+94.66	17.62	607.60 *
J	86+00.26	17.74	607.62 *
K	86+00.12	19.48	607.63
L	85+99.97	21.55	607.64
M	85+99.39	29.27	607.66
N	86+13.80	30.30	607.66
O	86+15.81	30.44	607.66
P	86+17.39	29.73	607.66 *
Q	86+19.12	36.19	607.54 *
R	86+17.36	36.07	607.55
S	86+15.40	35.93	607.56
T	86+13.41	35.79	607.57
U	85+98.97	34.76	607.66

LEGEND

-  DETECTABLE WARNING
-  DEPRESSED CURB & GUTTER
-  PROPOSED ELEVATION
-  EXISTING ELEVATION
-  SIDEWALK/PAVEMENT GRADE
-  EXISTING GRADE
-  CC&G, TYPE B-6.12
-  TRAFFIC SIGNAL POST
-  PEDESTRIAN SIGNAL POST
-  SIDE CURB

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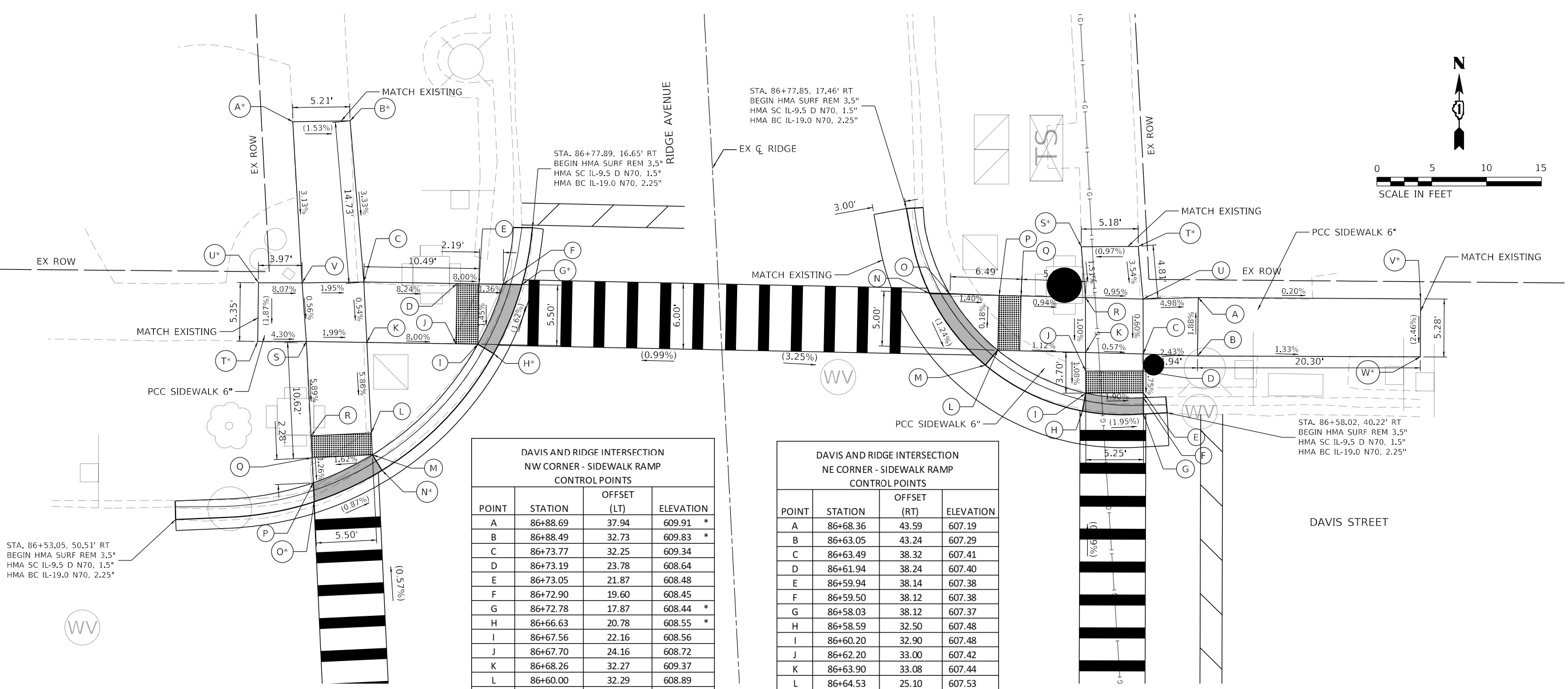
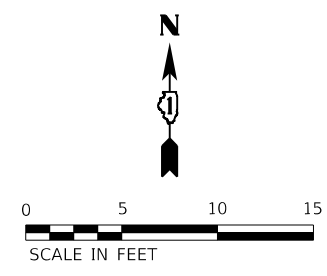
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
RIDGE AVENUE & DAVIS STREET INTERSECTION RAMP DETAILS**

F.A.U. RTE. 2744	SECTION 19-00284-00-CH	COUNTY COOK	TOTAL SHEETS 59	SHEET NO. 24
		CONTRACT NO. 61H94		
ILLINOIS FED. AID PROJECT				

SCALE: 1"=5' SHEET 11 OF 14 SHEETS STA. TO STA.



**DAVIS AND RIDGE INTERSECTION
NW CORNER - SIDEWALK RAMP
CONTROL POINTS**

POINT	STATION	OFFSET (LT)	ELEVATION
A	86+88.69	37.94	609.91 *
B	86+88.49	32.73	609.83 *
C	86+73.77	32.25	609.34
D	86+73.19	23.78	608.64
E	86+73.05	21.87	608.48
F	86+72.90	19.60	608.45
G	86+72.78	17.87	608.44 *
H	86+66.63	20.78	608.55 *
I	86+67.56	22.16	608.56
J	86+67.70	24.16	608.72
K	86+68.26	32.27	609.37
L	86+60.00	32.29	608.89
M	86+58.02	32.26	608.77
N	86+56.58	31.41	608.76 *
O	86+54.00	37.81	608.82 *
P	86+55.74	37.81	608.83
Q	86+58.11	37.80	608.86
R	86+60.02	37.79	608.97
S	86+68.64	37.77	609.48
T	86+68.86	42.19	609.67 *
U	86+74.20	41.84	609.77 *
V	86+73.98	37.88	609.45

**DAVIS AND RIDGE INTERSECTION
NE CORNER - SIDEWALK RAMP
CONTROL POINTS**

POINT	STATION	OFFSET (RT)	ELEVATION
A	86+68.36	43.59	607.19
B	86+63.05	43.24	607.29
C	86+63.49	38.32	607.41
D	86+61.94	38.24	607.40
E	86+59.94	38.14	607.38
F	86+59.50	38.12	607.37
G	86+58.03	38.12	607.37
H	86+58.59	32.50	607.48
I	86+60.20	32.90	607.48
J	86+62.20	33.00	607.42
K	86+63.90	33.08	607.44
L	86+64.53	25.10	607.53
M	86+62.80	24.39	607.54
N	86+70.23	19.08	607.65
O	86+70.07	20.90	607.64
P	86+69.45	25.49	607.58
Q	86+69.31	27.49	607.56
R	86+68.90	33.33	607.49
S	86+73.54	33.20	607.56 *
T	86+73.29	38.38	607.61 *
U	86+68.49	38.57	607.44
V	86+67.18	63.82	607.15 *
W	86+61.90	63.50	607.02 *

LEGEND

- DETECTABLE WARNING
- DEPRESSED CURB & GUTTER
- PROPOSED ELEVATION
- EXISTING ELEVATION
- SIDEWALK/PAVEMENT GRADE
- EXISTING GRADE
- CC&G, TYPE B-6.12
- TRAFFIC SIGNAL POST
- PEDESTRIAN SIGNAL POST
- SIDE CURB

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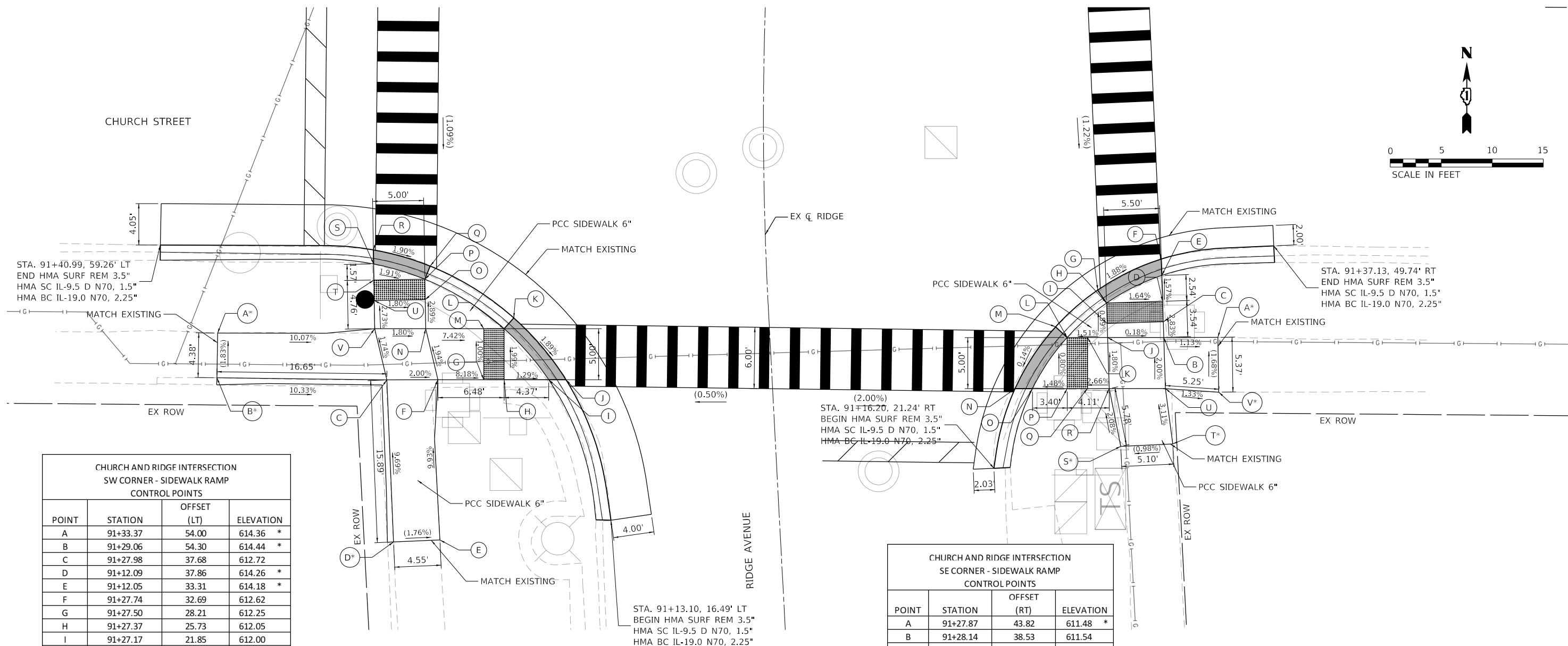
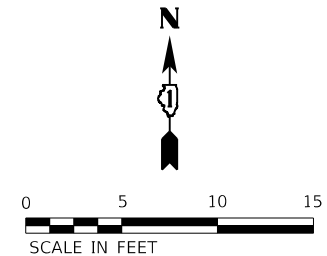


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PLOT DATE = 7/25/2022	CHECKED - SS	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
RIDGE AVENUE & DAVIS STREET INTERSECTION RAMP DETAILS
 SCALE: 1"=5' SHEET 12 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	25
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				





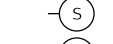
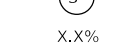
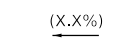


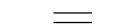


CHURCH AND RIDGE INTERSECTION
SW CORNER - SIDEWALK RAMP
CONTROL POINTS

POINT	STATION	OFFSET (LT)	ELEVATION
A	91+33.37	54.00	614.36 *
B	91+29.06	54.30	614.44 *
C	91+27.98	37.68	612.72
D	91+12.09	37.86	614.26 *
E	91+12.05	33.31	614.18 *
F	91+27.74	32.69	612.62
G	91+27.50	28.21	612.25
H	91+27.37	25.73	612.05
I	91+27.17	21.85	612.00
J	91+27.08	20.16	611.99
K	91+33.37	24.95	612.14
L	91+32.39	25.95	612.15
M	91+32.50	27.95	612.30
N	91+32.79	33.62	612.72
O	91+35.40	33.53	612.64
P	91+37.23	33.47	612.58
Q	91+38.38	32.91	612.57
R	91+40.00	38.41	612.68
S	91+38.76	38.44	612.68
T	91+37.35	38.45	612.68
U	91+35.54	38.53	612.73
V	91+33.05	38.62	612.81

CHURCH AND RIDGE INTERSECTION
SE CORNER - SIDEWALK RAMP
CONTROL POINTS

POINT	STATION	OFFSET (RT)	ELEVATION
A	91+27.87	43.82	611.48 *
B	91+28.14	38.53	611.54
C	91+29.67	38.56	611.50
D	91+31.67	38.60	611.44
E	91+34.37	38.65	611.40
F	91+36.18	38.68	611.41
G	91+33.14	32.32	611.54
H	91+31.79	33.10	611.53
I	91+29.79	33.06	611.54
J	91+28.43	33.03	611.55
K	91+28.53	31.07	611.52
L	91+28.63	29.07	611.49
M	91+29.89	27.86	611.48
N	91+23.90	23.72	611.47
O	91+23.81	25.42	611.48
P	91+23.64	28.79	611.53
Q	91+23.53	30.80	611.58
R	91+23.42	32.93	611.64
S	91+17.71	33.76	611.76 *
T	91+17.68	38.86	611.81 *
U	91+23.14	38.42	611.64
V	91+22.50	43.63	611.57 *

LEGEND

-  DETECTABLE WARNING
-  DEPRESSED CURB & GUTTER
-  PROPOSED ELEVATION
-  EXISTING ELEVATION
-  SIDEWALK/PAVEMENT GRADE
-  EXISTING GRADE
-  CC&G, TYPE B-6.12
-  TRAFFIC SIGNAL POST
-  PEDESTRIAN SIGNAL POST
-  SIDE CURB

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PLOT DATE = 7/25/2022

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DRAWN - KKH
CHECKED - SS
DATE - 7/25/2022

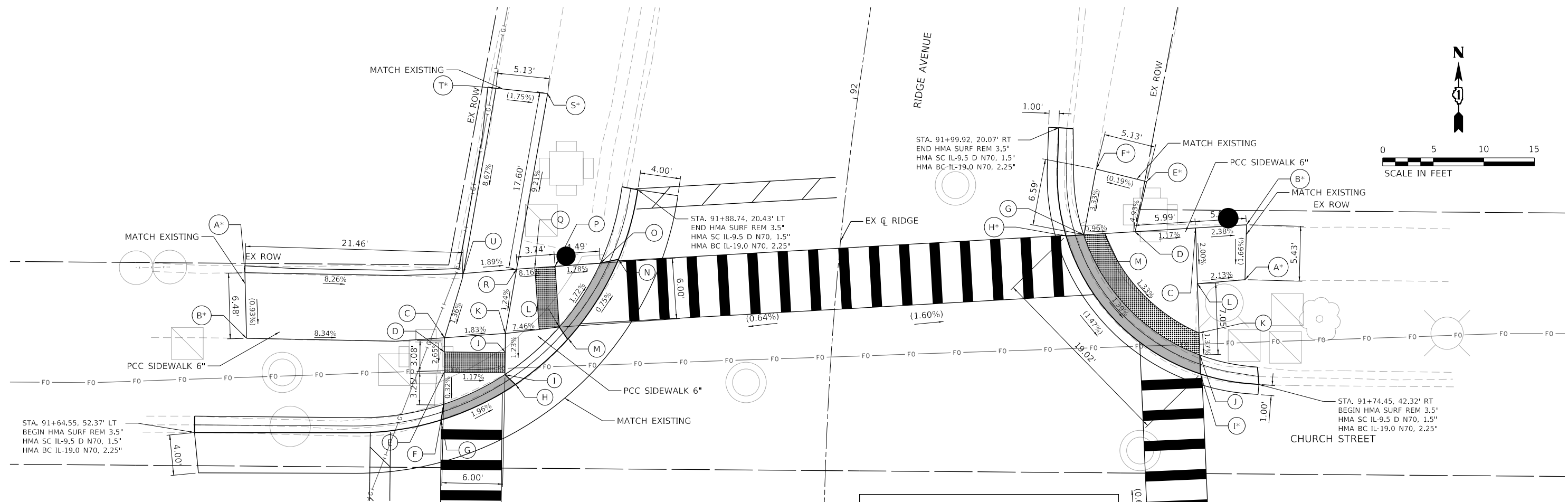
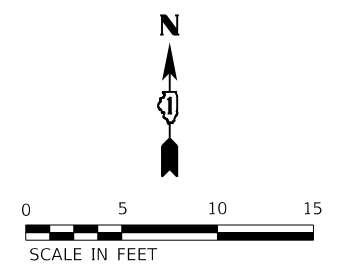
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
RIDGE AVENUE & CHURCH STREET INTERSECTION RAMP DETAILS**

SCALE: 1"=5' SHEET 13 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	26
				CONTRACT NO. 61H94
		ILLINOIS	FED. AID PROJECT	

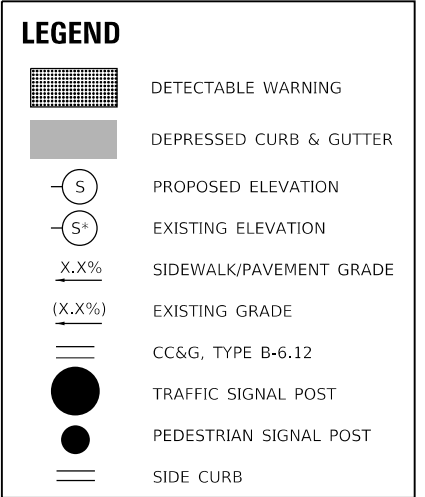


**CHURCH AND RIDGE INTERSECTION
NW CORNER - SIDEWALK RAMP
CONTROL POINTS**

POINT	STATION	OFFSET (LT)	ELEVATION
A	91+78.22	58.30	614.58 *
B	91+72.69	57.70	614.52 *
C	91+73.81	38.19	612.89
D	91+72.63	38.37	612.86
E	91+70.76	38.02	612.80
F	91+67.91	37.90	612.79
G	91+66.49	38.09	612.79
H	91+70.01	30.92	612.72
I	91+70.84	32.02	612.73
J	91+72.93	31.88	612.75
K	91+74.56	32.22	612.78
L	91+75.47	26.96	612.38
M	91+74.40	26.07	612.37
N	91+82.13	21.66	612.30
O	91+81.63	23.41	612.31
P	91+80.97	27.84	612.39
Q	91+81.18	28.05	612.56
R	91+80.43	31.60	612.70
S	91+96.56	30.38	614.32 *
T	91+96.44	35.52	614.41 *
U	91+79.65	36.81	612.80

**CHURCH AND RIDGE INTERSECTION
NE CORNER - SIDEWALK RAMP
CONTROL POINTS**

POINT	STATION	OFFSET (RT)	ELEVATION
A	91+86.00	40.10	611.74 *
B	91+92.10	39.67	611.83 *
C	91+91.11	34.71	611.95
D	91+89.97	28.81	612.02
E	91+95.47	29.36	612.27 *
F	91+96.12	24.26	612.26 *
G	91+89.03	23.81	612.04
H	91+88.72	22.09	612.05 *
I	91+75.18	36.50	611.77 *
J	91+77.25	36.31	611.78
K	91+79.67	36.07	611.84
L	91+85.05	35.47	611.84
M	91+89.41	25.86	612.02



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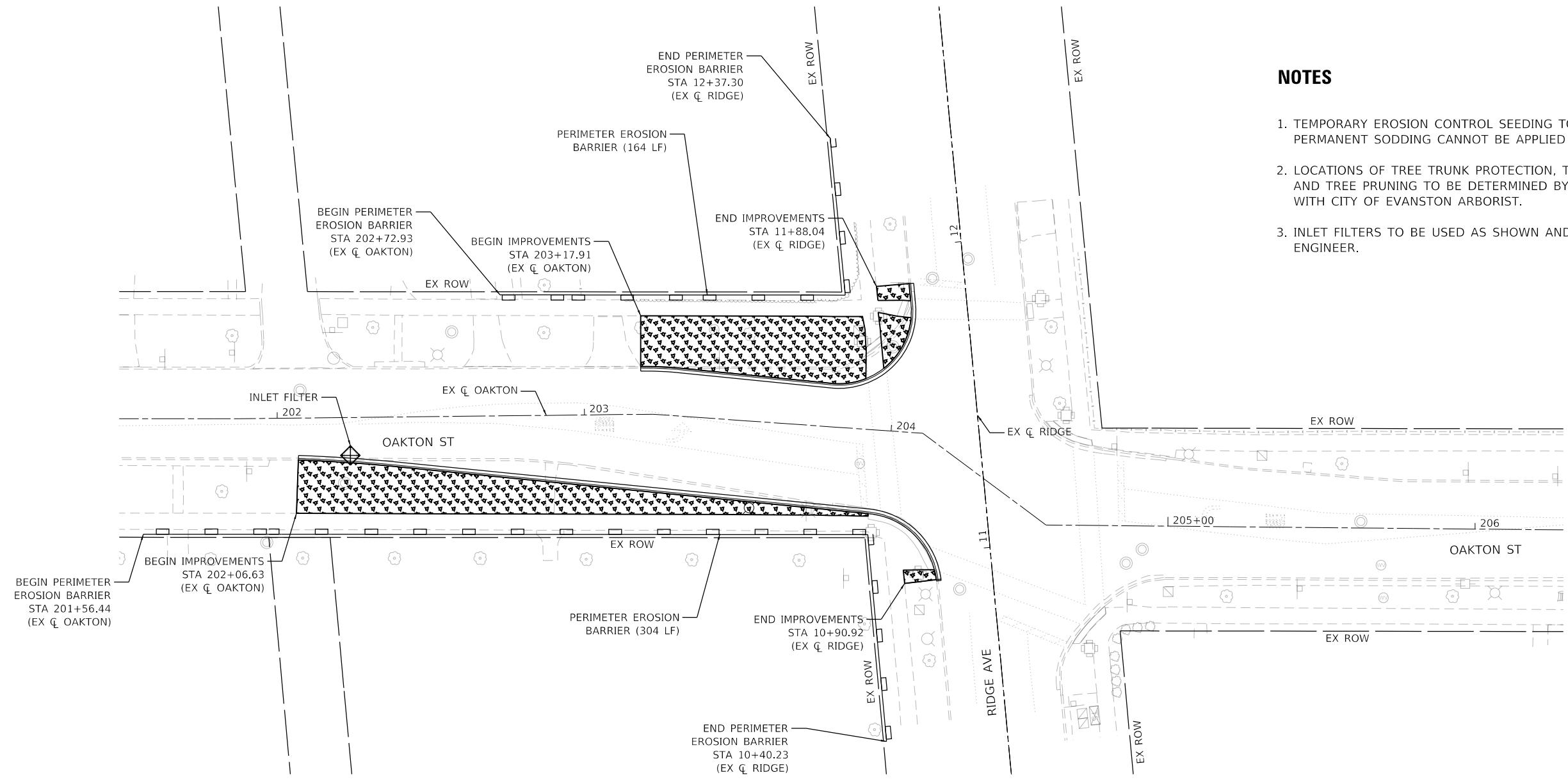
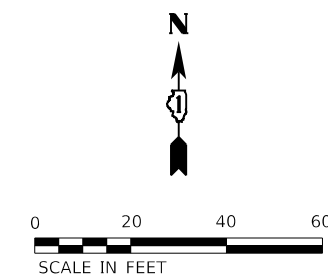
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
RIDGE AVENUE & CHURCH STREET INTERSECTION RAMP DETAILS**

SCALE: 1"=5' SHEET 14 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	27
CONTRACT NO. 61H94				
ILLINOIS		FED. AID PROJECT		



NOTES

1. TEMPORARY EROSION CONTROL SEEDING TO BE APPLIED IF PERMANENT SODDING CANNOT BE APPLIED IN TIME.
2. LOCATIONS OF TREE TRUNK PROTECTION, TREE ROOT PRUNING AND TREE PRUNING TO BE DETERMINED BY ENGINEER IN COORDINATION WITH CITY OF EVANSTON ARBORIST.
3. INLET FILTERS TO BE USED AS SHOWN AND AT THE DIRECTION OF THE ENGINEER.

LEGEND

- SODDING, SALT TOLERANT (SEE NOTE 1)
- PERIMETER EROSION BARRIER
- INLET FILTER

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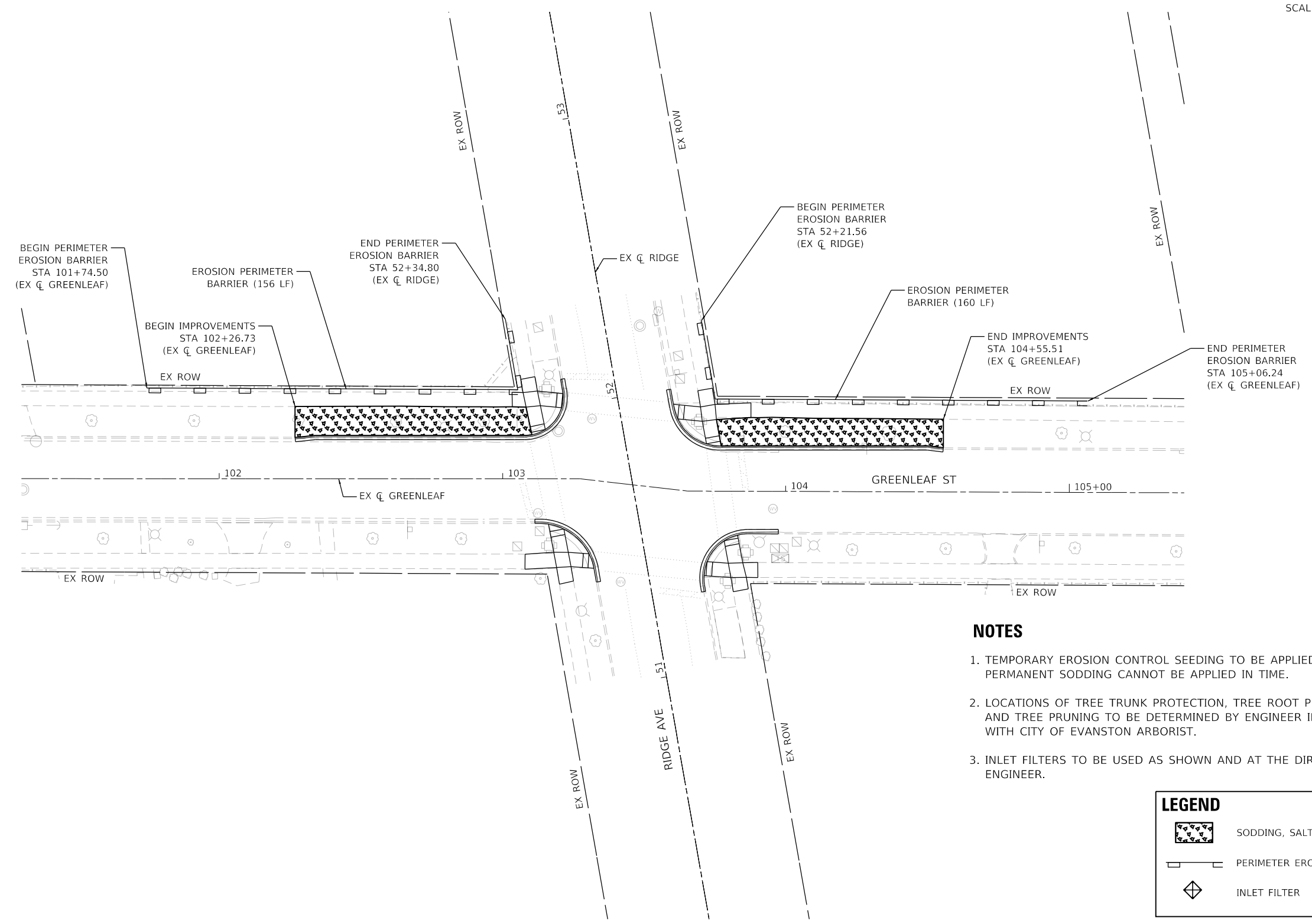
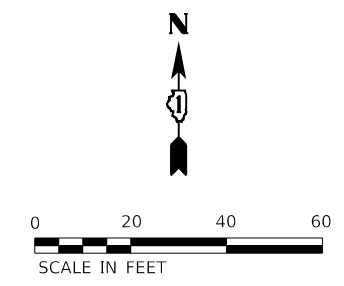


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
LANDSCAPING & EROSION CONTROL PLAN - RIDGE AVE & OAKTON ST

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	28
CONTRACT NO. 61H94				
SCALE: 1"=20'		SHEET 1 OF 2 SHEETS		STA. TO STA.
ILLINOIS FED. AID PROJECT				



NOTES

1. TEMPORARY EROSION CONTROL SEEDING TO BE APPLIED IF PERMANENT SODDING CANNOT BE APPLIED IN TIME.
2. LOCATIONS OF TREE TRUNK PROTECTION, TREE ROOT PRUNING AND TREE PRUNING TO BE DETERMINED BY ENGINEER IN COORDINATION WITH CITY OF EVANSTON ARBORIST.
3. INLET FILTERS TO BE USED AS SHOWN AND AT THE DIRECTION OF THE ENGINEER.

LEGEND	
	SODDING, SALT TOLERANT (SEE NOTE 1)
	PERIMETER EROSION BARRIER
	INLET FILTER

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PLOT DATE = 7/25/2022	DATE - 7/25/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
 LANDSCAPING & EROSION CONTROL PLAN-RIDGE AVE & GREENLEAF ST**

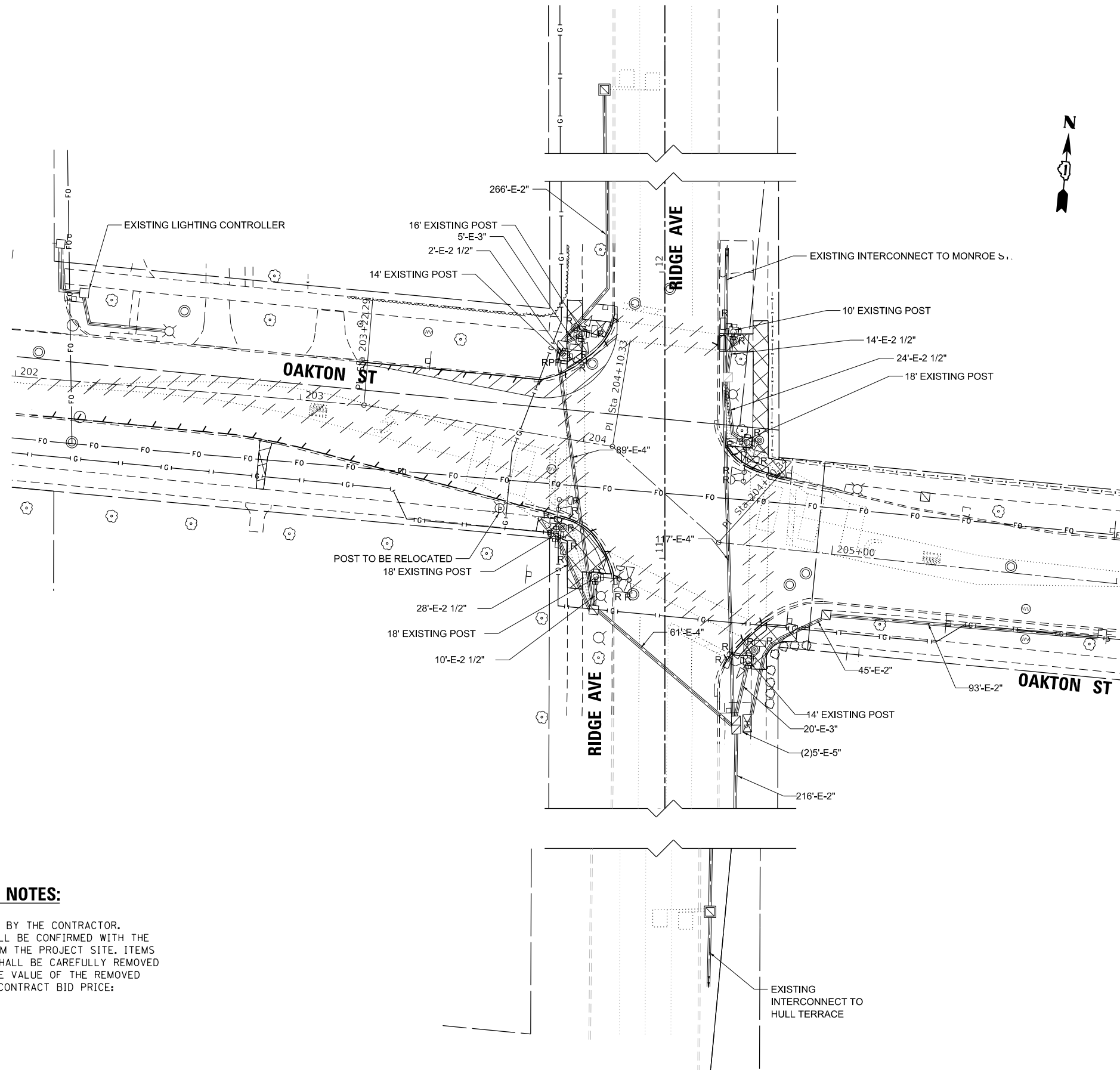
SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	29
CONTRACT NO. 61H94				

ILLINOIS FED. AID PROJECT

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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:

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

Sam Schwartz
 223 W. JACKSON
 SUITE 1101
 CHICAGO, IL 60606
 TEL: (773) 305-0800

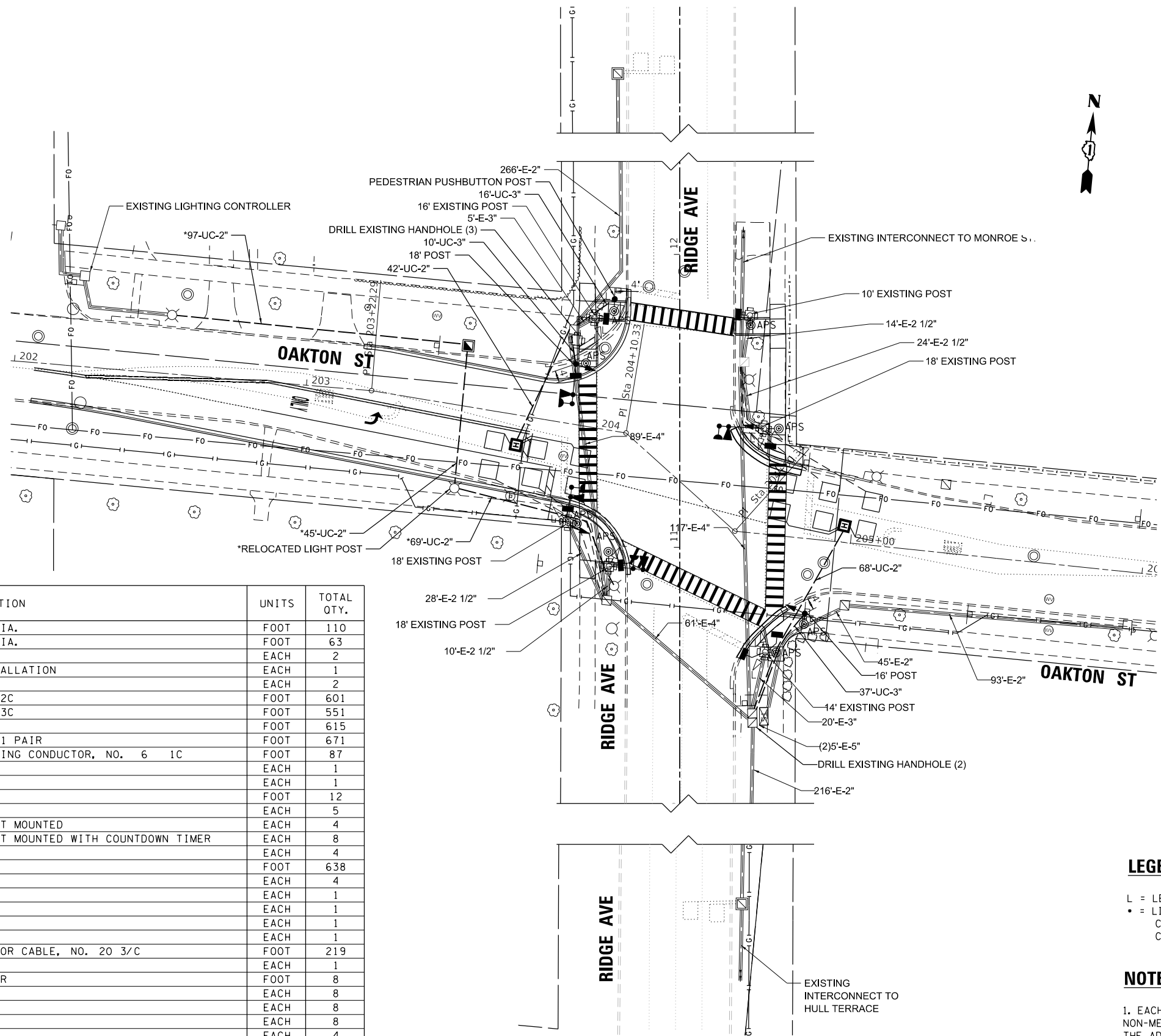
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	DATE - 06/13/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
 RIDGE AVE AND OAKTON STREET

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	30
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	110
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	63
HEAVY-DUTY HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PAINT NEW TRAFFIC SIGNAL POST	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	601
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	551
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	615
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	671
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	87
TRAFFIC SIGNAL POST, 16 FT. (SPECIAL)	EACH	1
TRAFFIC SIGNAL POST, 18 FT. (SPECIAL)	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
DRILL EXISTING HANDHOLE	EACH	5
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	638
LIGHT DETECTOR	EACH	4
LIGHT AMPLIFIER	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	219
PEDESTRIAN SIGNAL POST, 5 FT	EACH	1
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
LED SIGNAL FACE RETROFIT, RED BALL	EACH	8
LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	8
LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	4
LED SIGNAL FACE RETROFIT, GREEN ARROW	EACH	

LEGEND

- L = LED SIGNAL FACE RETROFIT
- = LIGHTING ITEM (SEE ROADWAY SOO)
CONTRACTOR TO MATCH EXISTING CABLE AND FOUNDATION

NOTES:

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

Sam Schwartz
 223 W. JACKSON
 SUITE 1101
 CHICAGO, IL 60606
 TEL: (773) 305-0800

USER NAME = Kellen.Hinchey	DESIGNED - ECS	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - ECS	REVISED -
PLOT DATE = 7/25/2022	CHECKED - PAW	REVISED -
	DATE - 06/13/2022	REVISED -

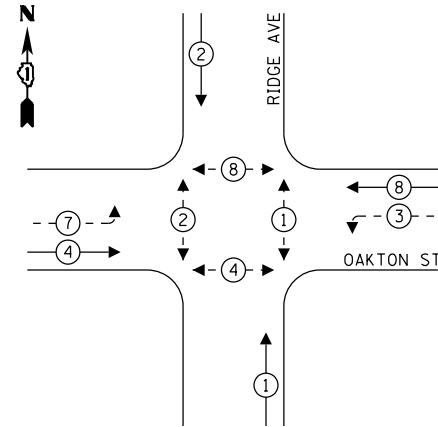
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
 TRAFFIC SIGNAL MODERNIZATION PLAN
 RIDGE AVENUE AND OAKTON STREET**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	31
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				

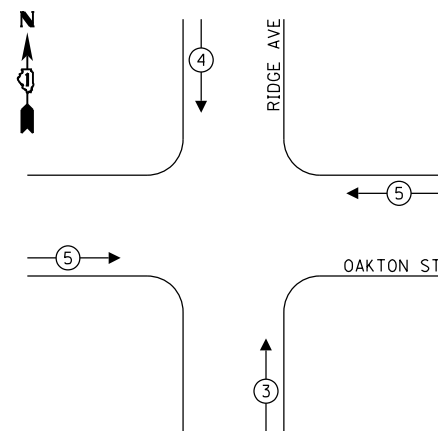
PROPOSED CONTROLLER SEQUENCE



LEGEND:

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

**PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTORS	3	4	5
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	12	10	10	12.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				414.8

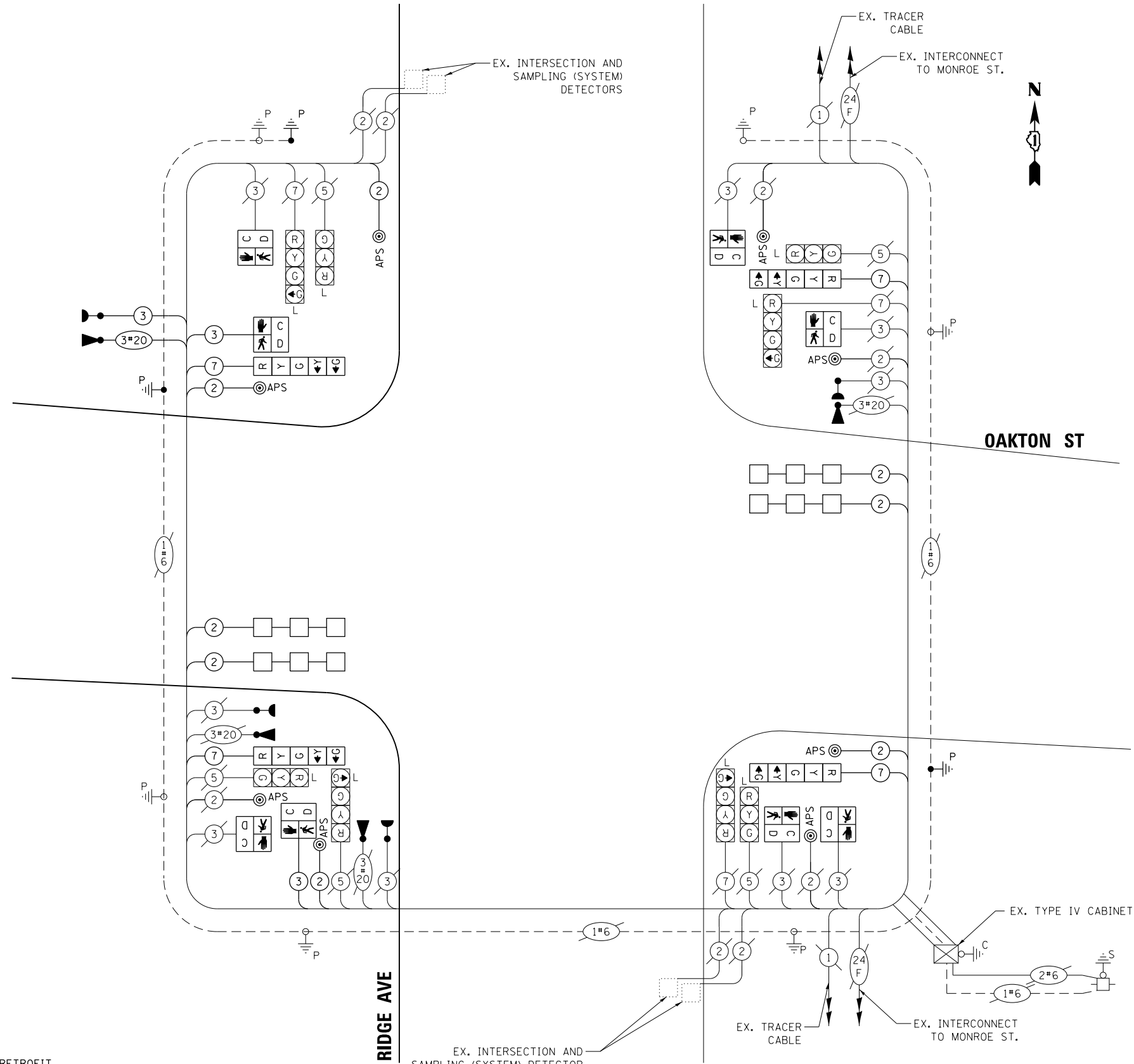
ENERGY COSTS TO:

CITY OF EVANSTON
2100 RIDGE AVENUE
EVANSTON, IL 60201

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

LEGEND

L = LED SIGNAL FACE RETROFIT



**CABLE PLAN
(NOT TO SCALE)**

TS SHT NO. XX

Sam Schwartz
223 W. JACKSON
SUITE 1101
CHICAGO, IL 60606
TEL: (773) 305-0800

DESIGNED - ECS	REVISED -
DRAWN - ECS	REVISED -
PLOT SCALE = 40.0000" / in.	REVISED -
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DATE - 06/13/2022	REVISED -

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DEPARTMENT OF TRANSPORTATION

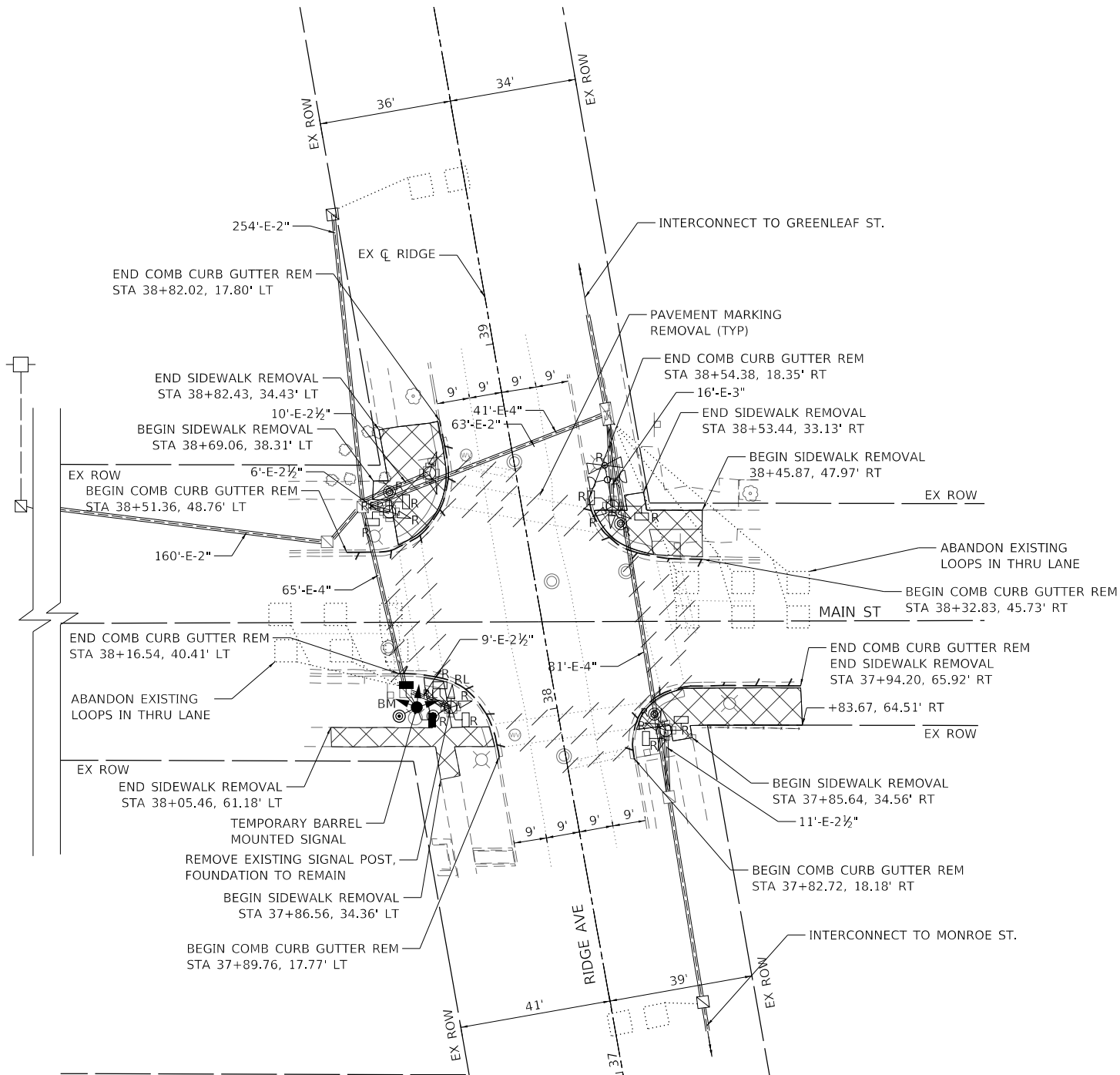
**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
PROPOSED CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY
VEHICLE PREEMPTION SEQUENCE - RIDGE AVENUE AND OAKTON STREET**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	32
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				

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REMOVAL PLAN AND TEMPORARY SIGNAL INSTALLATION PLAN



REMOVAL AND RELOCATION NOTES:

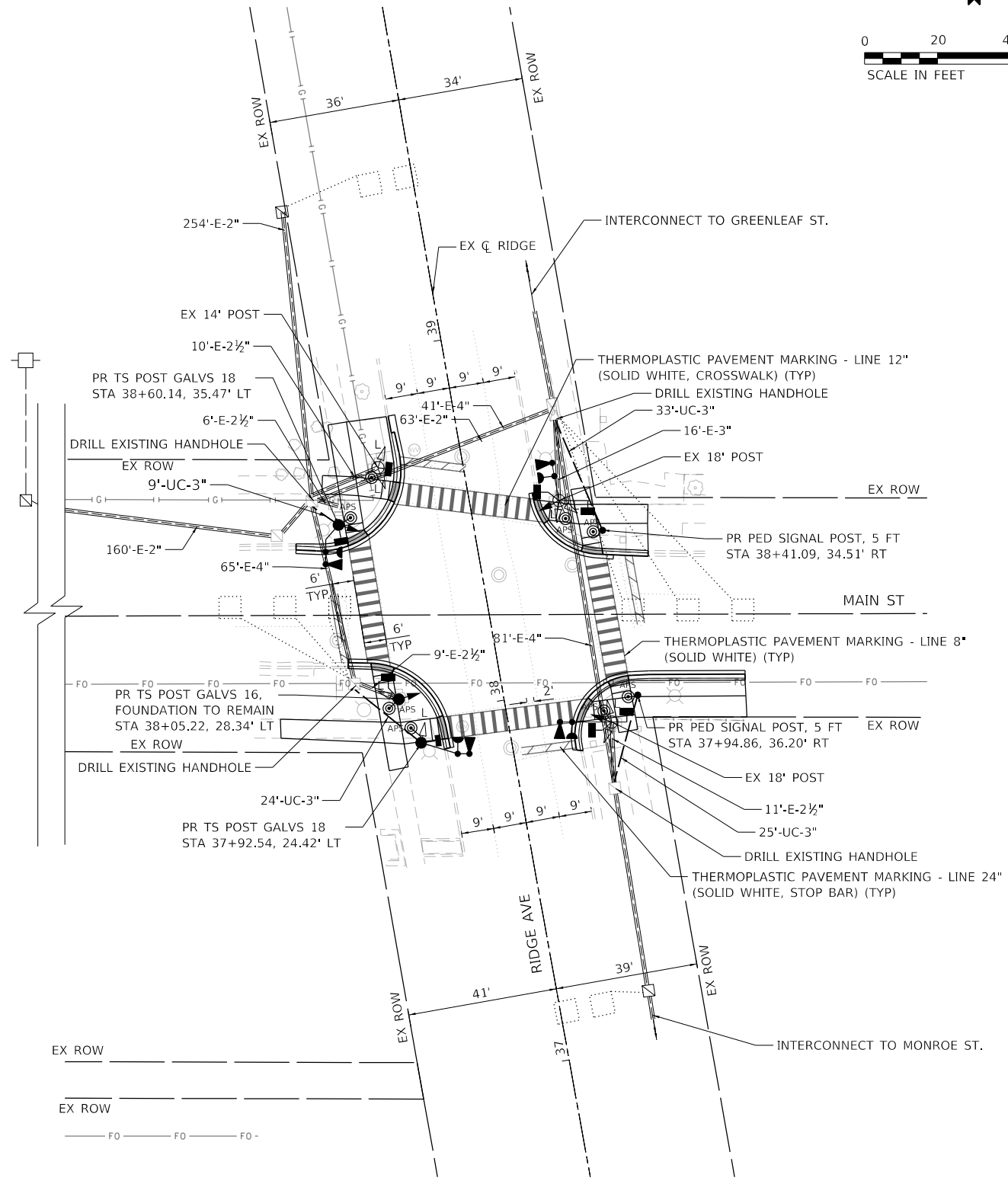
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR. TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BE CONFIRMED WITH THE CITY FOR SALVAGE BEFORE REMOVING FROM THE PROJECT SITE. ITEMS DESIGNATED FOR SALVAGE BY THE CITY SHALL BE CAREFULLY REMOVED AND RETURNED TO THE CITY. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT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

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

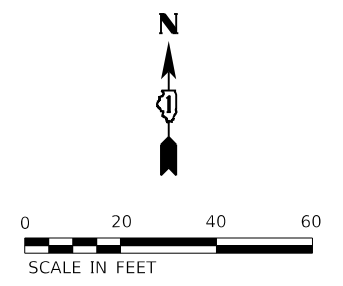
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL POSTS AND TRAFFIC SIGNAL CONTROLLER:

- 1 EACH 3-SECTION SIGNAL HEAD
- 1 EACH 4-SECTION SIGNAL HEAD

TRAFFIC SIGNAL MODIFICATION PLAN



LEGEND
L = LED SIGNAL FACE RETROFIT



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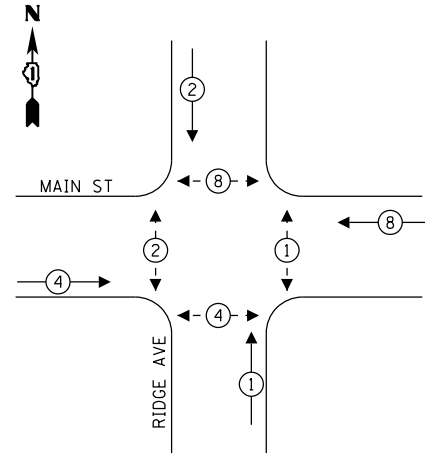
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS	
TRAFFIC SIGNAL MODIFICATION PLAN - RIDGE AVENUE & MAIN STREET	
SCALE: 1"=20'	SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	33
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				

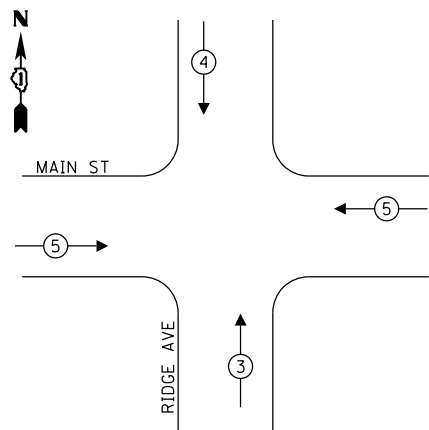
EXISTING AND TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← (*) ← PROTECTED PHASE
- ← (**) ← PROTECTED/PERMITTED PHASE
- ← (*) → PEDESTRIAN PHASE

EXISTING AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTORS	3	4	5
MOVEMENT	↑	↓	↔

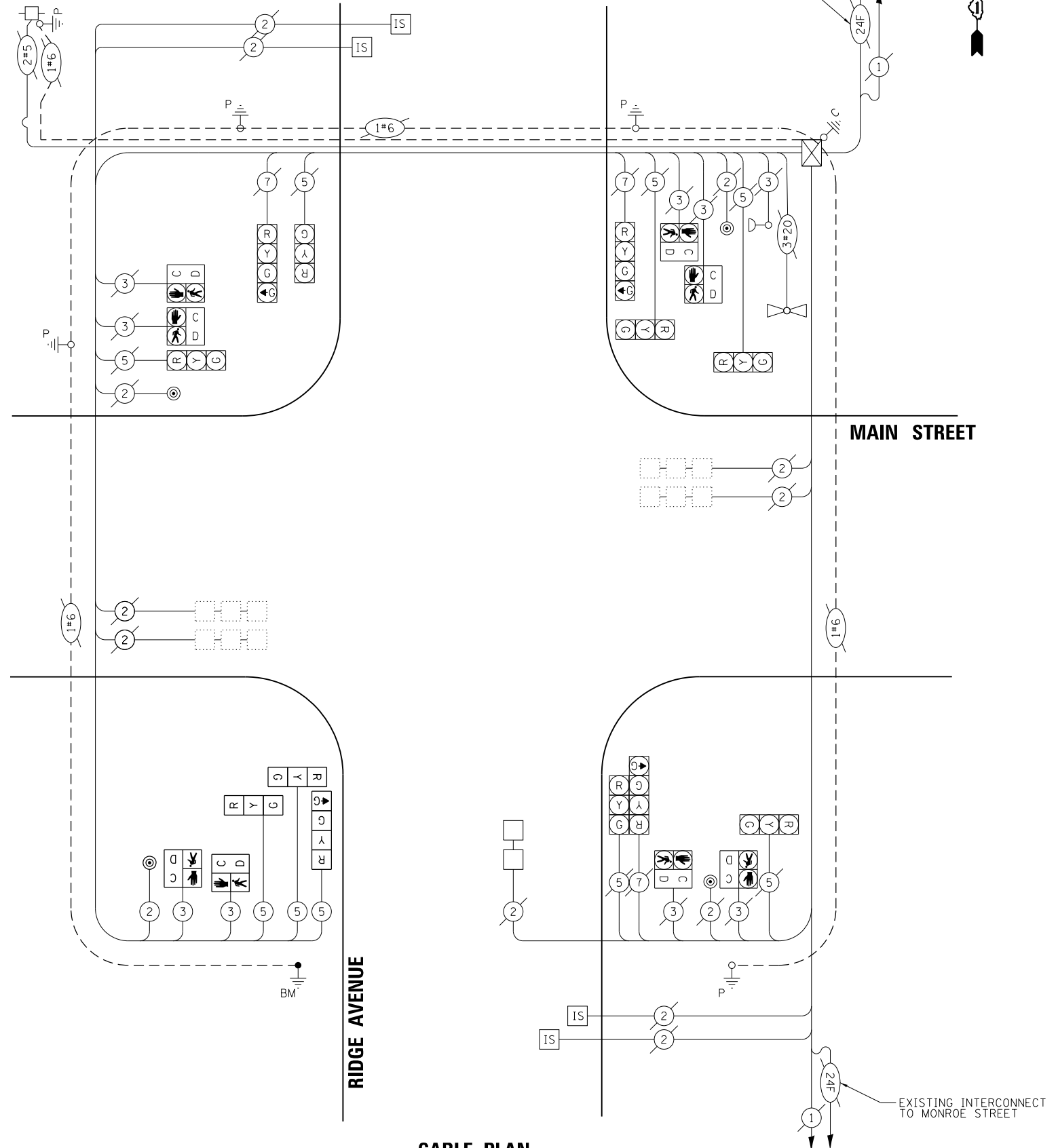
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

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	4	10	10	4.0
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 =	406.8

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)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	34
CONTRACT NO. 61H94				

SCALE: NTS SHEET OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

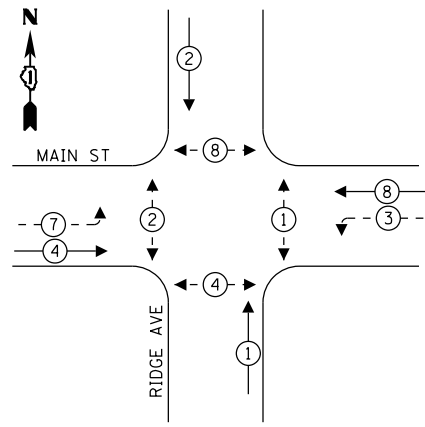
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PHONE: 630-471-6500
WWW.KIMLEY-HORN.COM

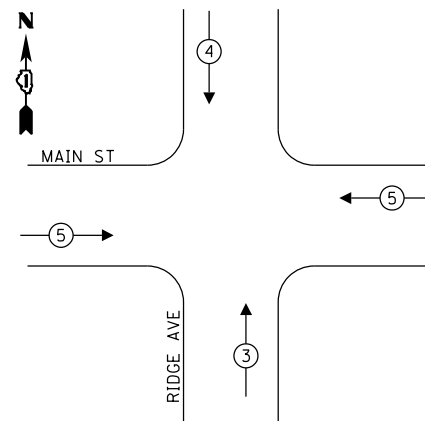
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- ← (Circled arrow with star) → PROTECTED PHASE
- ← (Circled arrow with star and dot) → PROTECTED/PERMITTED PHASE
- ← (Circled arrow) → PEDESTRIAN PHASE

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



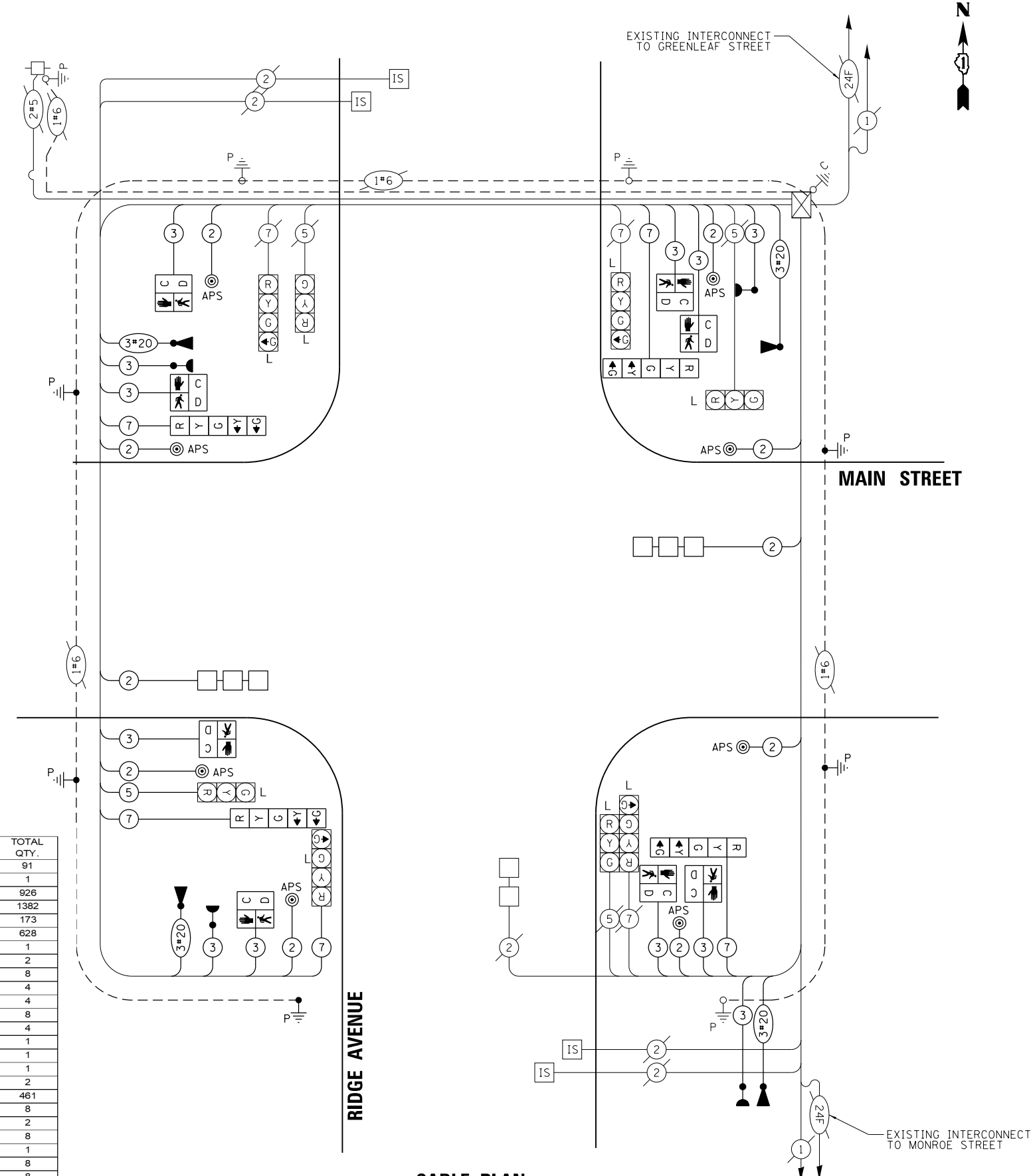
EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTORS	3	4	5
MOVEMENT	↑	↓	↔

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	91
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	926
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1382
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	173
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	628
TRAFFIC SIGNAL POST, 16 FT. (SPECIAL)	EACH	1
TRAFFIC SIGNAL POST, 18 FT. (SPECIAL)	EACH	2
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
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	EACH	461
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
PEDESTRIAN SIGNAL POST, 5 FT	EACH	2
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	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
LED SIGNAL FACE RETROFIT, GREEN ARROW	EACH	4

LEGEND

L = LED SIGNAL FACE RETROFIT



CABLE PLAN
(NOT TO SCALE)

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	-	-	-	-
VIDEO SYSTEM	-	-	-	-
BLANK-OUT SIGN	-	-	-	-
FLASHER	-	-	-	-
STREET NAME SIGN	-	-	-	-
LUMINAIRE	-	-	-	-
TOTAL =				414.8

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
2021 KIMLEY-HORN AND ASSOCIATES, INC.
400 WINTERFIELD ROAD, SUITE 600
WARRENVILLE, IL 60550
PHONE: 630-471-6000
WWW.KIMLEY-HORN.COM

DESIGNED -	KKH	REVISED -	
DRAWN -	KKH	REVISED -	
PLOT SCALE =	40,0000 ' / in.	CHECKED -	SS
PLOT DATE =	7/25/2022	DATE -	7/25/2022
		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 & MAIN STREET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	35
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE: \\nashville\pwworking\kimley-horn.com\shank-larry\p-011\Documents\01_Acctive Projects\MK-Chris-168112004 - Ridge Avenue - Evaston\Phase II\Design\Plan Sheets\168112004-cable_02.dgn

REMOVAL AND RELOCATION NOTES:

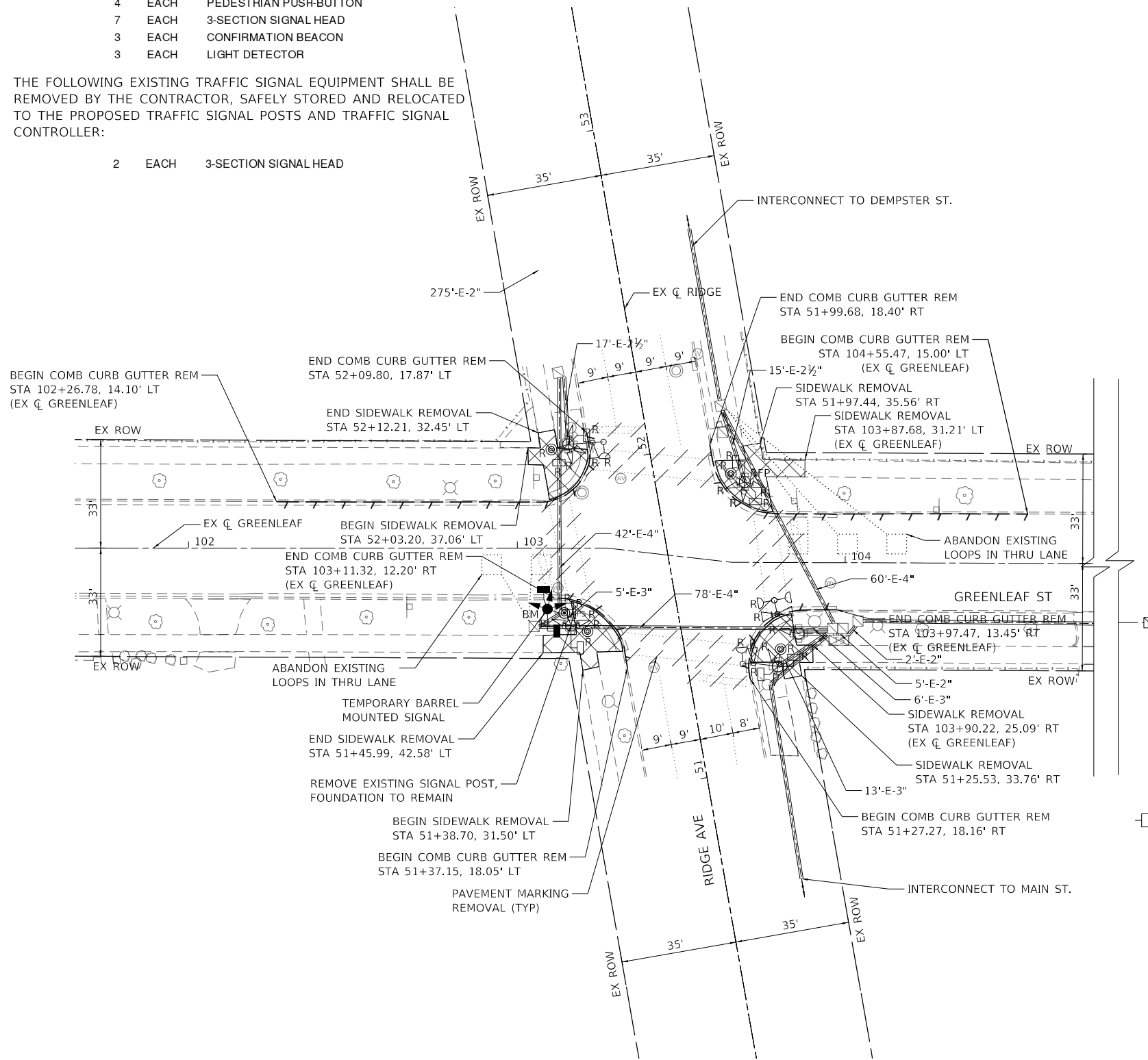
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR. TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BE CONFIRMED WITH THE CITY FOR SALVAGE BEFORE REMOVING FROM THE PROJECT SITE. ITEMS DESIGNATED FOR SALVAGE BY THE CITY SHALL BE CAREFULLY REMOVED AND RETURNED TO THE CITY. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT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

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

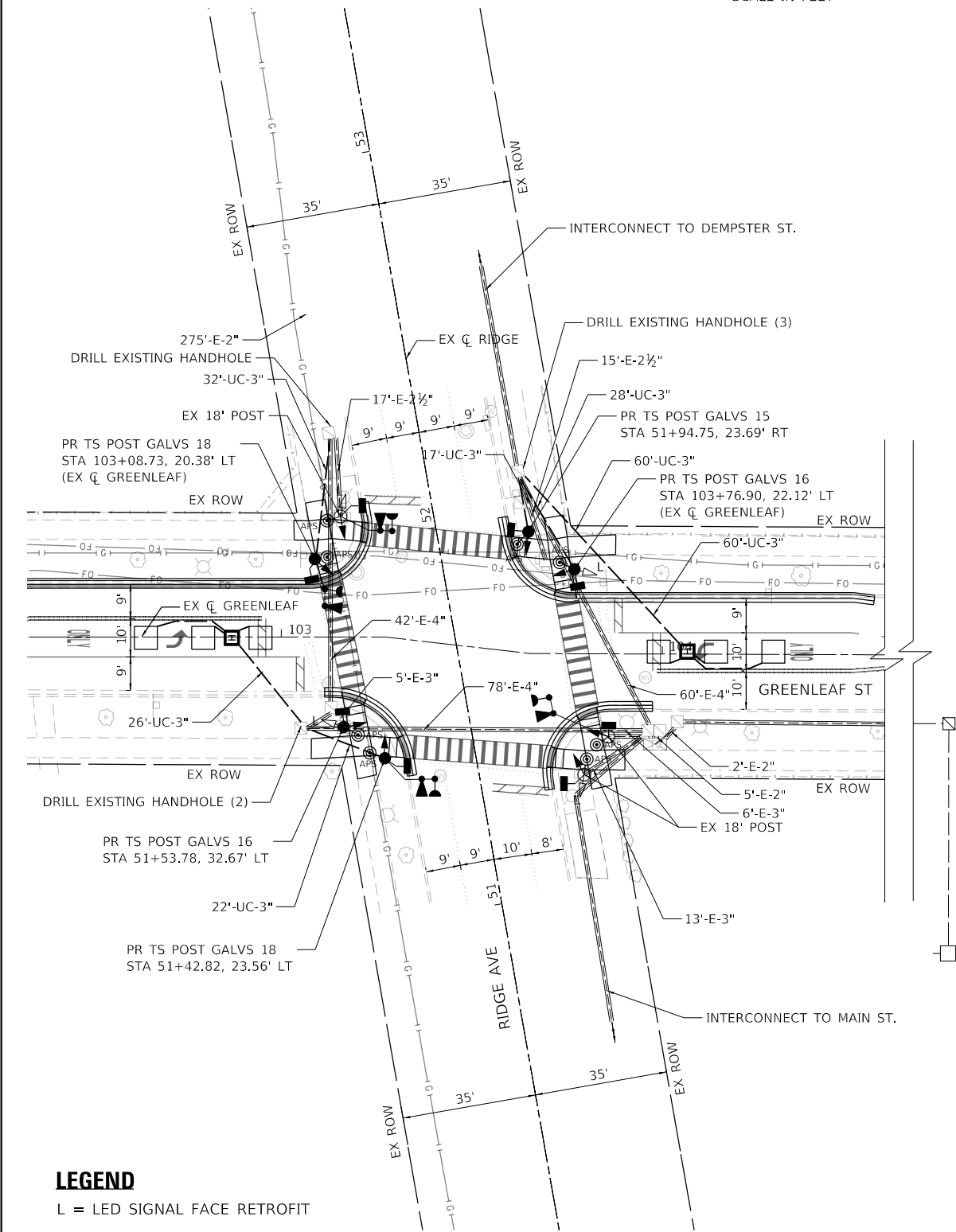
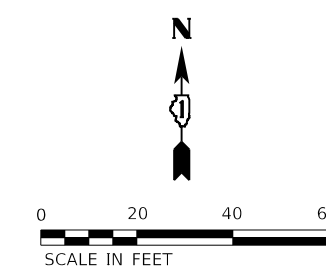
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL POSTS AND TRAFFIC SIGNAL CONTROLLER:

- 2 EACH 3-SECTION SIGNAL HEAD

**REMOVAL PLAN
AND TEMPORARY SIGNAL INSTALLATION PLAN**



TRAFFIC SIGNAL MODIFICATION PLAN



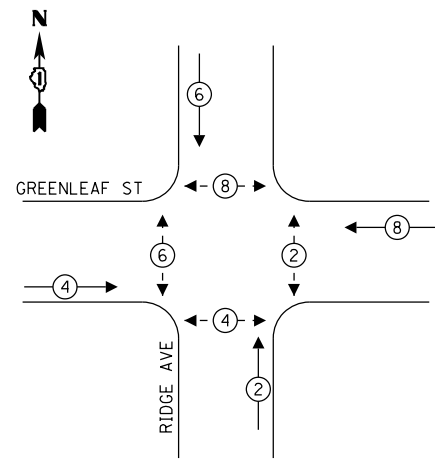
LEGEND

L = LED SIGNAL FACE RETROFIT

USER NAME = Kellen.Hinchey	DESIGNED - LMB	REVISED -
DRAWN - LMB	REVISED -	REVISED -
PLOT SCALE = 40.0000" / in.	CHECKED - SS	REVISED -
PLOT DATE = 7/25/2022	DATE - 7/25/2022	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	36
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				

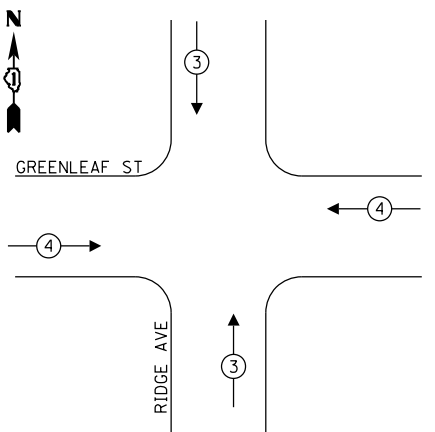
EXISTING AND TEMPORARY CONTROLLER SEQUENCE



LEGEND:

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

EXISTING AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

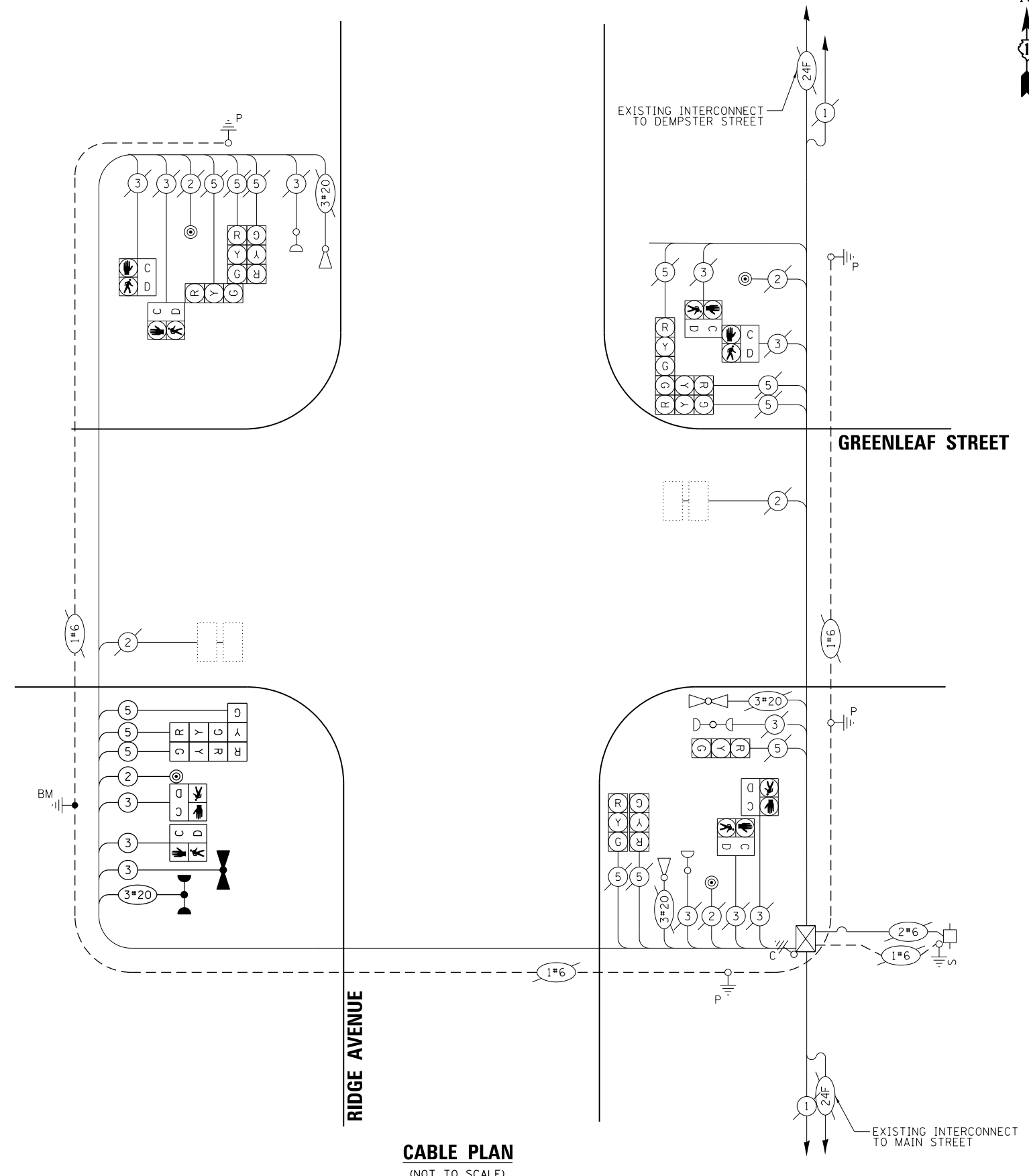
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

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: ---



CABLE PLAN
(NOT TO SCALE)

MODEL: Default FILE: N:\mhc\proj\hwy\evanston\evanston\19-00284-00-CH\19-00284-00-CH-02.dgn PROJECT: 19-00284-00-CH SHEET: 59 OF 37



USER NAME	= Kellen.Hinchey
PLOT SCALE	= 40,0000 ' / in.
PLOT DATE	= 7/25/2022

DESIGNED	-	KKH	REVISED	-
DRAWN	-	KKH	REVISED	-
CHECKED	-	SS	REVISED	-
DATE	-	7/25/2022	REVISED	-

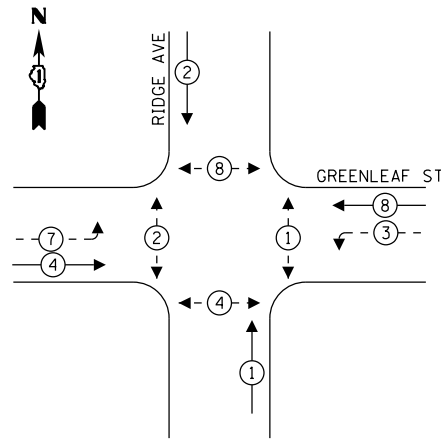
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
EXISTING CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY
VEHICLE PREEMPTION SEQUENCE – RIDGE AVENUE & GREENLEAF 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	37
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				

PROPOSED CONTROLLER SEQUENCE



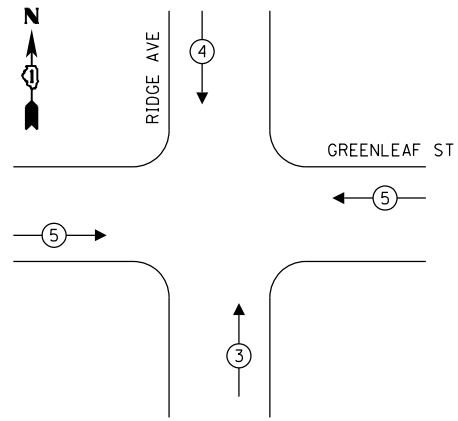
LEGEND:

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

LEGEND

L = LED SIGNAL FACE RETROFIT

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTORS	3	4	5
MOVEMENT	↑	↓	← →

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	185
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
HEAVY-DUTY HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1435
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1819
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	297
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1150
TRAFFIC SIGNAL POST, 15 FT. (SPECIAL)	EACH	1
TRAFFIC SIGNAL POST, 16 FT. (SPECIAL)	EACH	2
TRAFFIC SIGNAL POST, 18 FT. (SPECIAL)	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	20
DRILL EXISTING HANDHOLE	EACH	6
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	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	2
DETECTOR LOOP, TYPE I	FOOT	144
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	EACH	680
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)	EACH	1
LED SIGNAL FACE RETROFIT, RED BALL	EACH	4
LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	4
LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	4

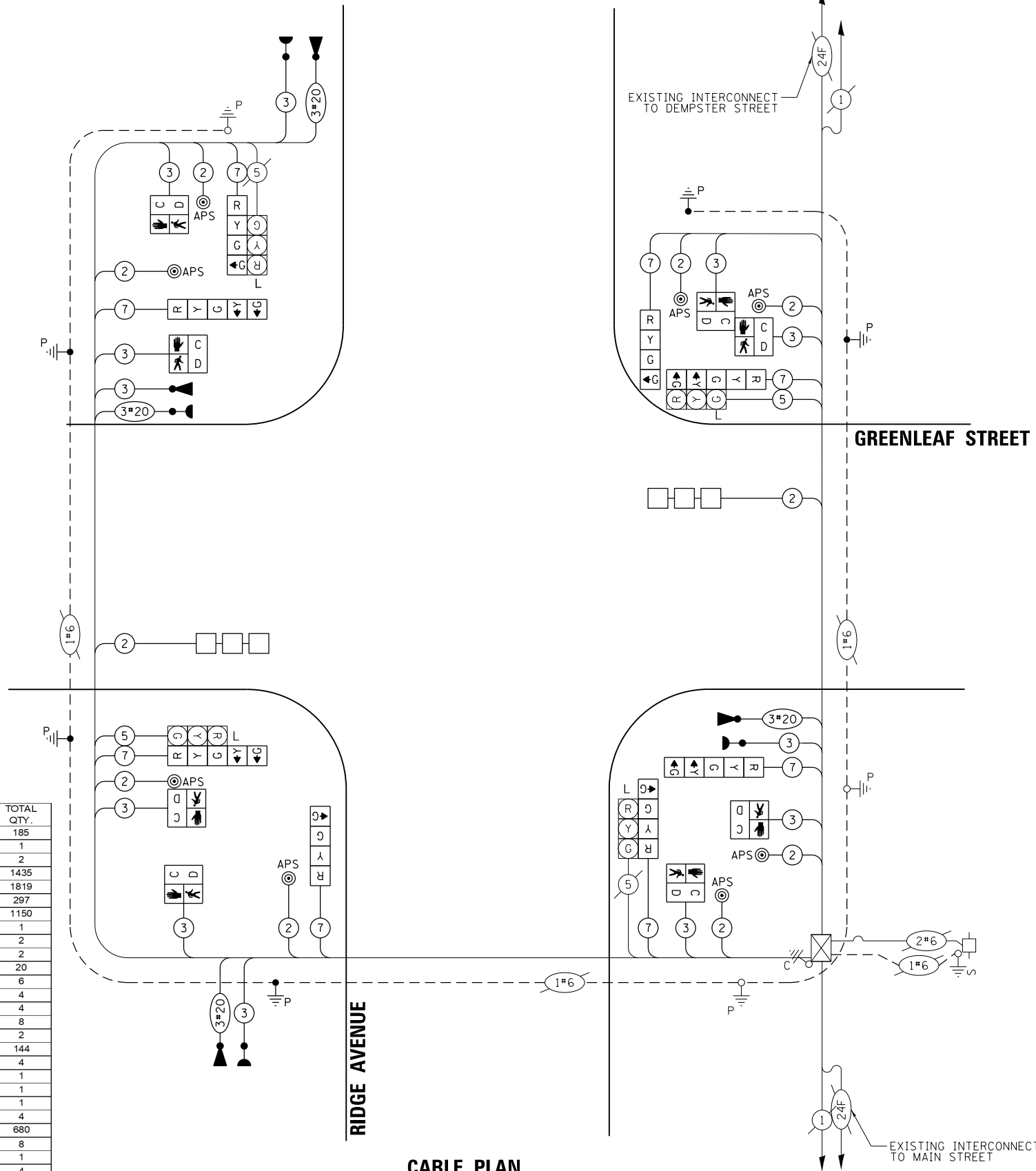
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

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	-	-	-	-
VIDEO SYSTEM	-	-	-	-
BLANK-OUT SIGN	-	-	-	-
FLASHER	-	-	-	-
STREET NAME SIGN	-	-	-	-
LUMINAIRE	-	-	-	-
TOTAL =				414.8

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)



USER NAME = Kellen.Hinchey
DESIGNED - KKH
DRAWN - KKH
CHECKED - SS
PLOT SCALE = 40,0000 ' / in.
PLOT DATE = 7/25/2022

REVISOR -
REVISOR -
REVISOR -
REVISOR -
DATE - 7/25/2022

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

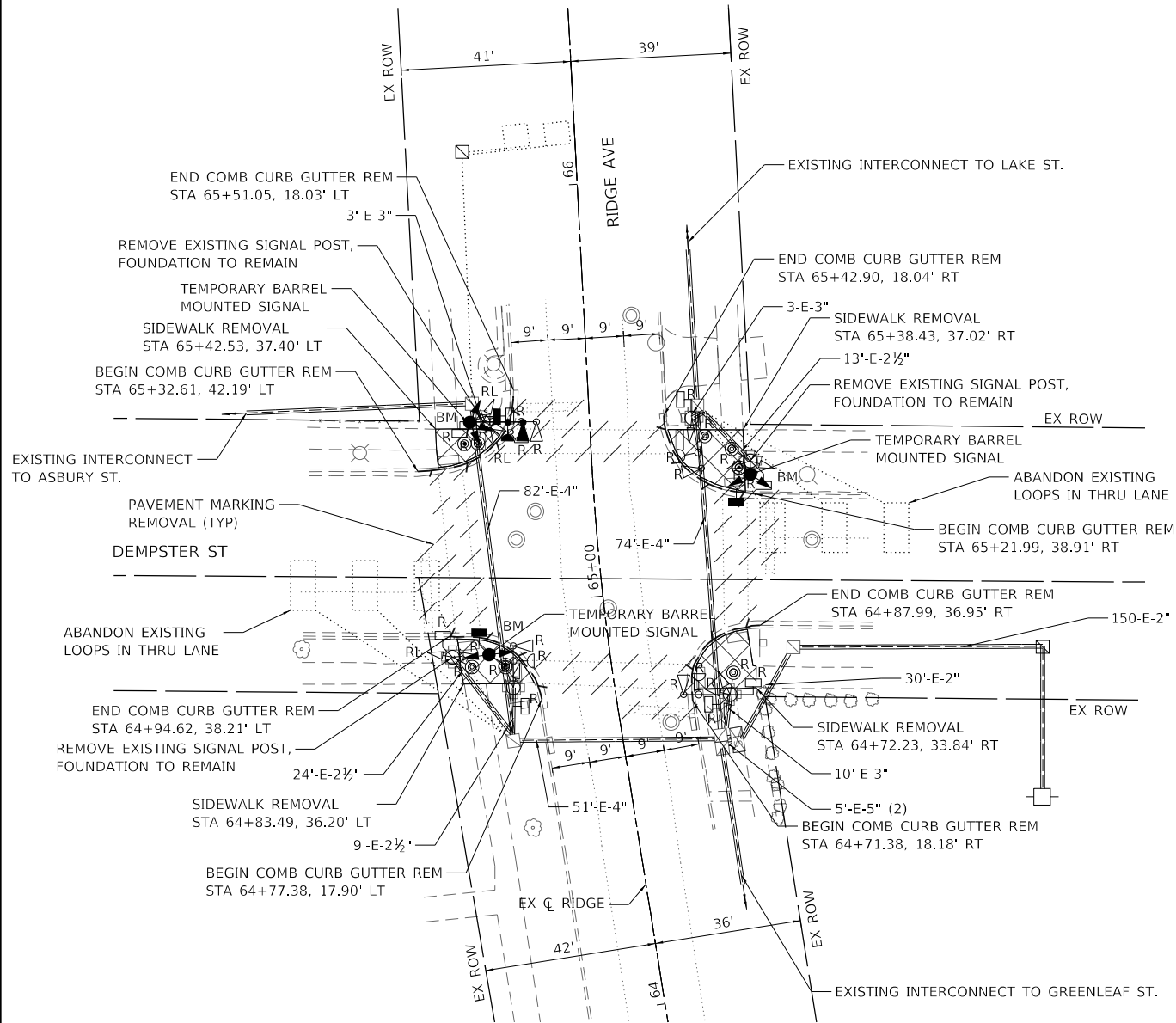
SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	38
CONTRACT NO. 61H94				

ILLINOIS FED. AID PROJECT

MODEL: Default FILE: \\hpc\pwworking\kimley-horn\p01\Documents\01 Active Projects\MK-CHS-168112004 - Ridge Avenue - Evanston\Phase II\Design\Plan_Sheets\168112004-cable_03.dgn

REMOVAL PLAN AND TEMPORARY SIGNAL INSTALLATION PLAN



REMOVAL AND RELOCATION NOTES:

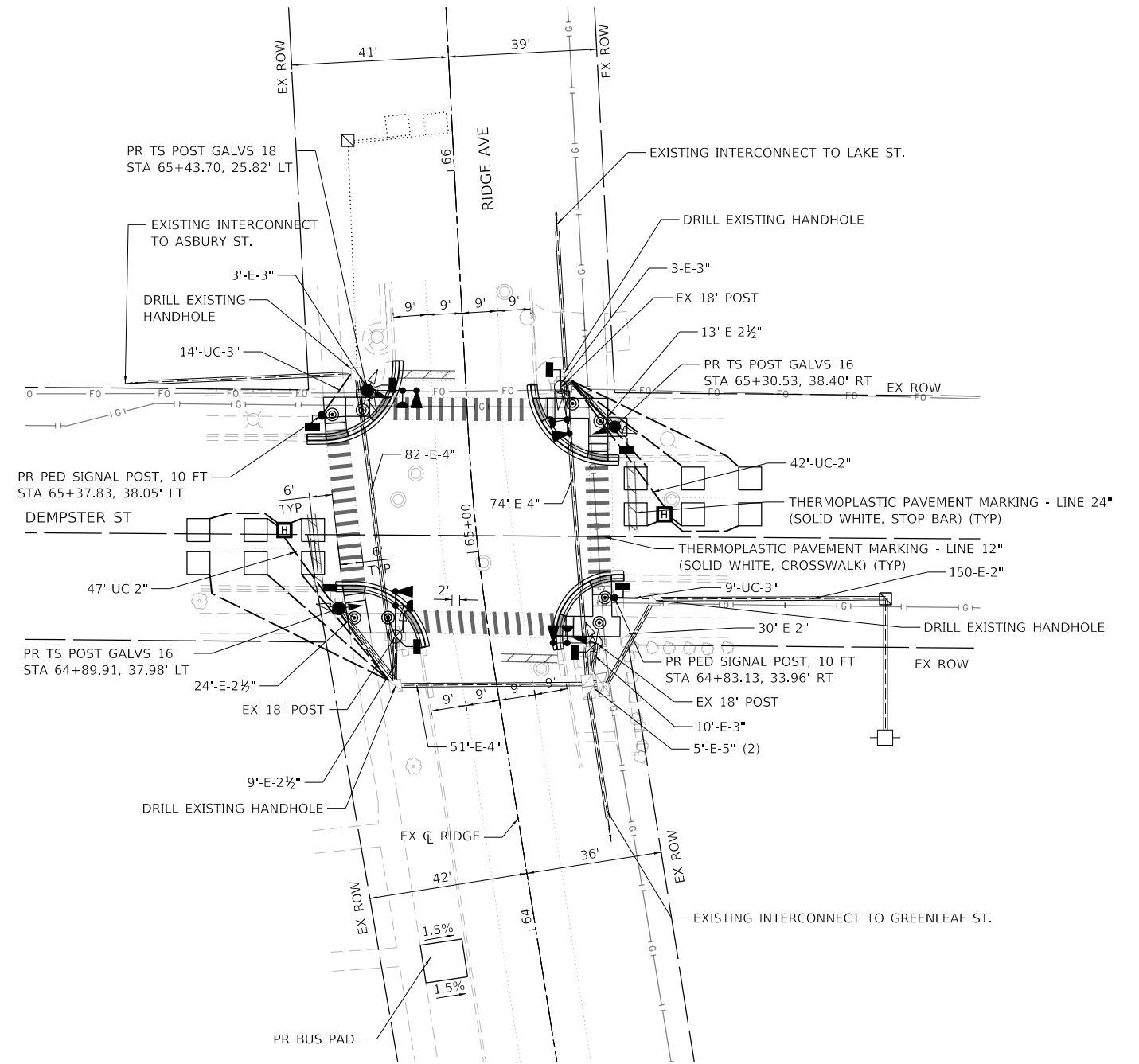
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR. TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BE CONFIRMED WITH THE CITY FOR SALVAGE BEFORE REMOVING FROM THE PROJECT SITE. ITEMS DESIGNATED FOR SALVAGE BY THE CITY SHALL BE CAREFULLY REMOVED AND RETURNED TO THE CITY. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT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

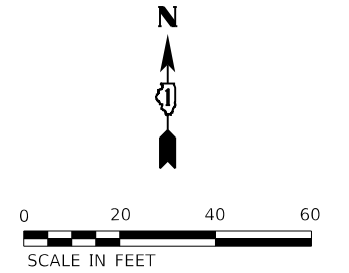
- 3 EACH 3-SECTION SIGNAL HEAD

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 IDOE AREA ENGINEER ANDY SCHUETZE 847-705-4508.



Kimley-Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
400 WINDFIELD ROAD, SUITE 600
WARRENVILLE, IL 60550
PHONE: 630-471-4000
WWW.KIMLEY-HORN.COM

USER NAME = Kellen.Hinchey	DESIGNED - LMB	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN - LMB	REVISED -
PLOT DATE = 7/25/2022	CHECKED - SS	REVISED -
	DATE - 7/25/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

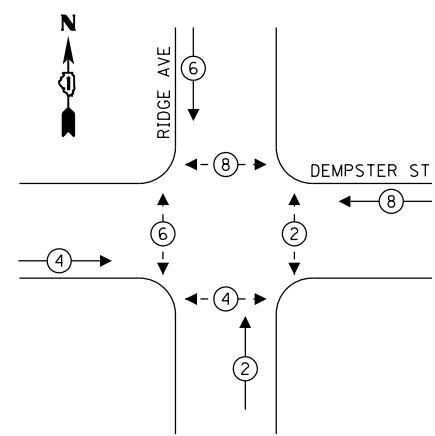
**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
TRAFFIC SIGNAL MODIFICATION PLAN - RIDGE AVE & DEMPSTER ST**

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

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				

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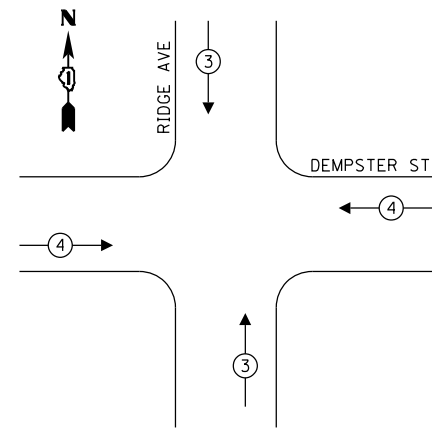
EXISTING AND TEMPORARY CONTROLLER SEQUENCE



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 = 7/25/2022

REVISIED -
REVISIED -
REVISIED -
REVISIED -

DATE - 7/25/2022

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

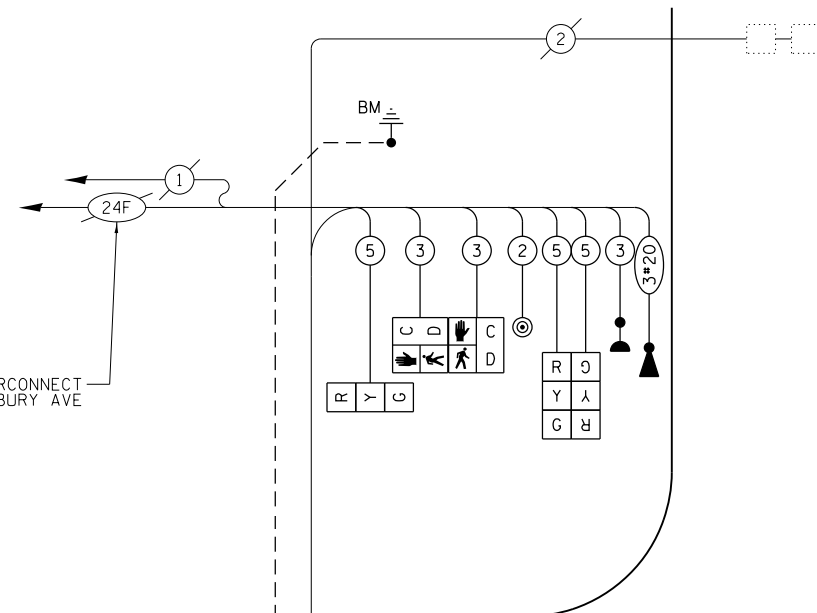
RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
EXISTING CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE - RIDGE AVENUE & DEMPSTER STREET

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

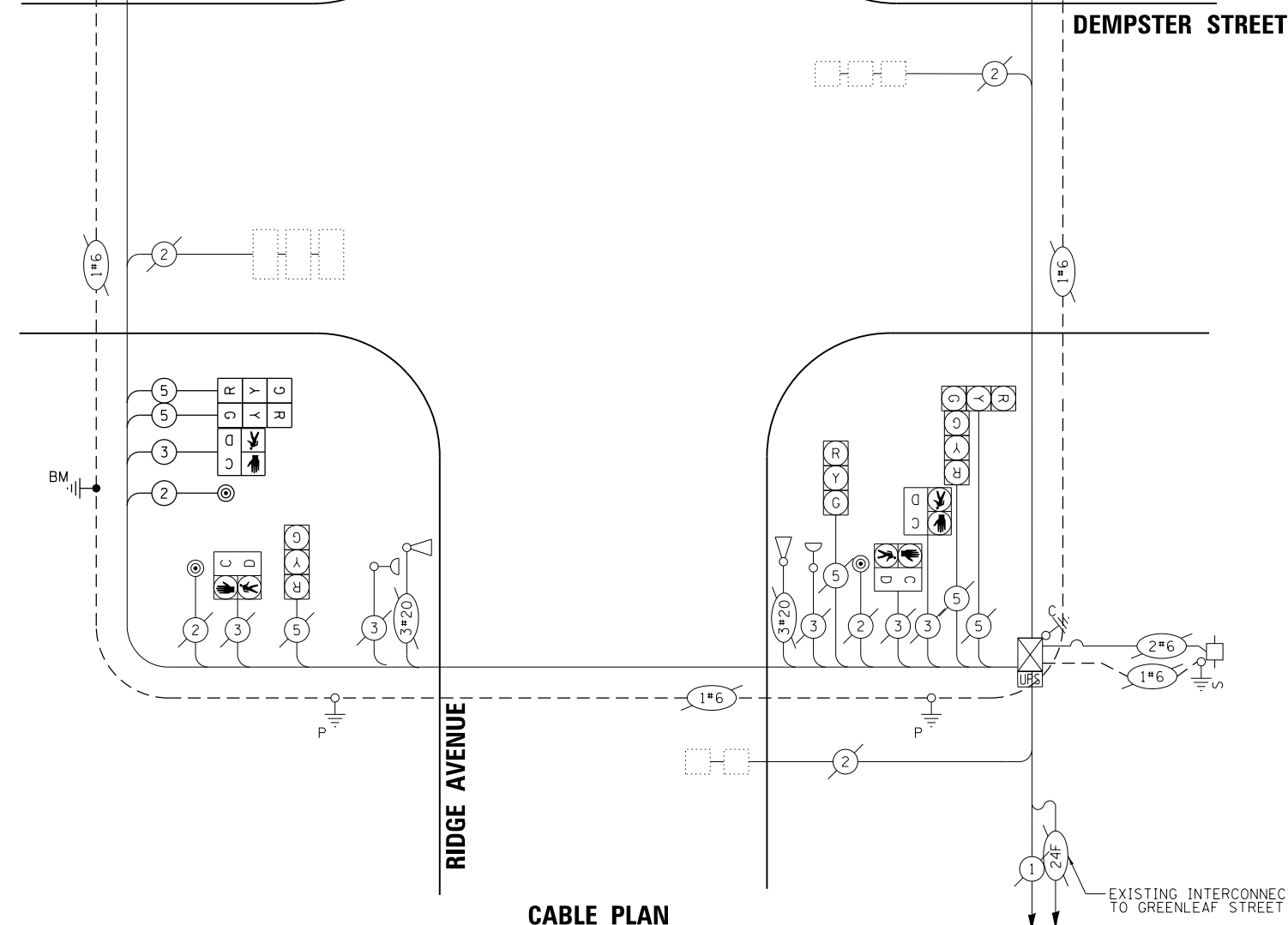
EXISTING INTERCONNECT TO ASBURY AVE



EXISTING INTERCONNECT TO LAKE STREET

BM

DEMPSTER STREET

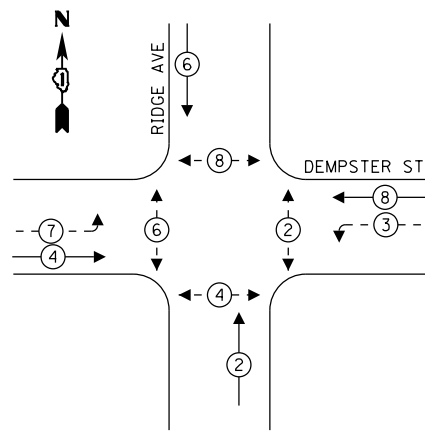


CABLE PLAN

(NOT TO SCALE)

MODEL: Default FILE: \\nas01\pub\paw.bentley.com\paw\paw-01\Documents\01_Active Projects\MKV-CHS-168112004 - Ridge Avenue - Evanston\Phase II\Design\Bm_Sheets\168112004-TempCable_03.dgn

PROPOSED CONTROLLER SEQUENCE



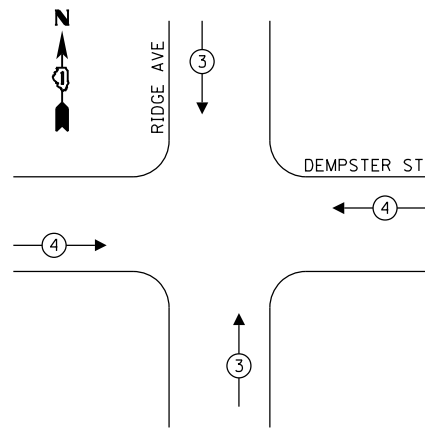
LEGEND:

- ← (⊙) ← PROTECTED PHASE
- ← (⊙) ← PROTECTED/PERMITTED PHASE
- ← (⊙) ← 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, 3" DIA.	FOOT	112
HEAVY-DUTY HANDHOLE	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1354
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1232
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	134
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	454
TRAFFIC SIGNAL POST, 16 FT. (SPECIAL)	EACH	2
TRAFFIC SIGNAL POST, 18 FT. (SPECIAL)	EACH	1
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
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	EACH	441
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
PEDESTRIAN SIGNAL POST, 10 FT	EACH	2
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	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

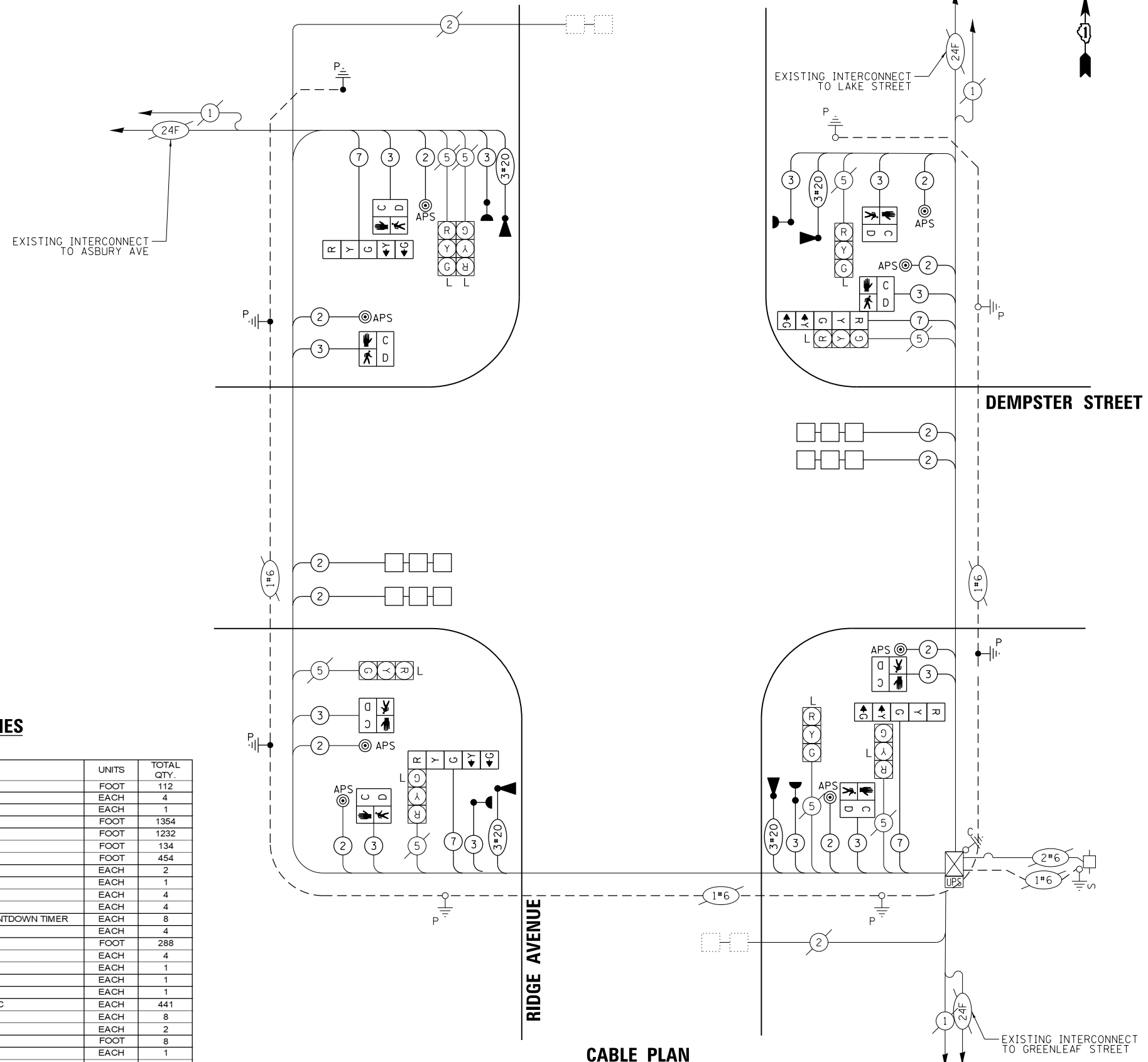
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

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)

MODEL: Default
FILE: \\nas01\pww\hwy\ben\hwy\com\hwy\pww\01\Documents\01_Active\Projects\MKV\CHS-168112004 - Ridge Avenue - Evanston\Phase II\Design\Bm_Sheets\168112004-cable_04.dgn



USER NAME = Kellen.Hinchey
DESIGNED - KKH
DRAWN - KKH
PLOT SCALE = 40,0000 "/>

REVISIED -
REVISIED -
REVISIED -
REVISIED -
DATE - 7/25/2022

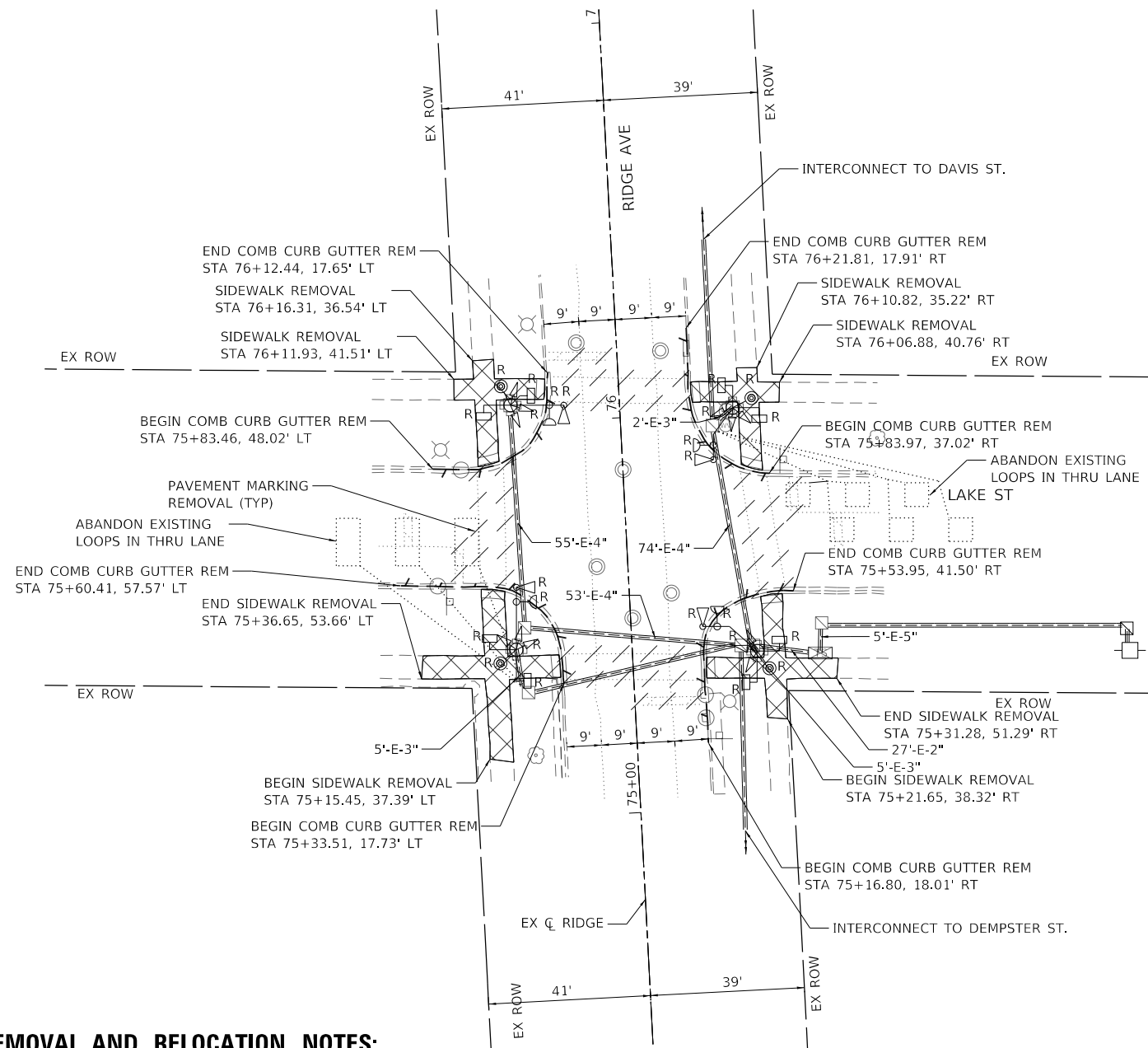
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

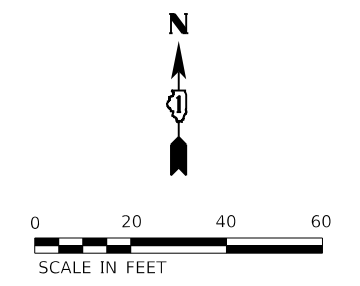
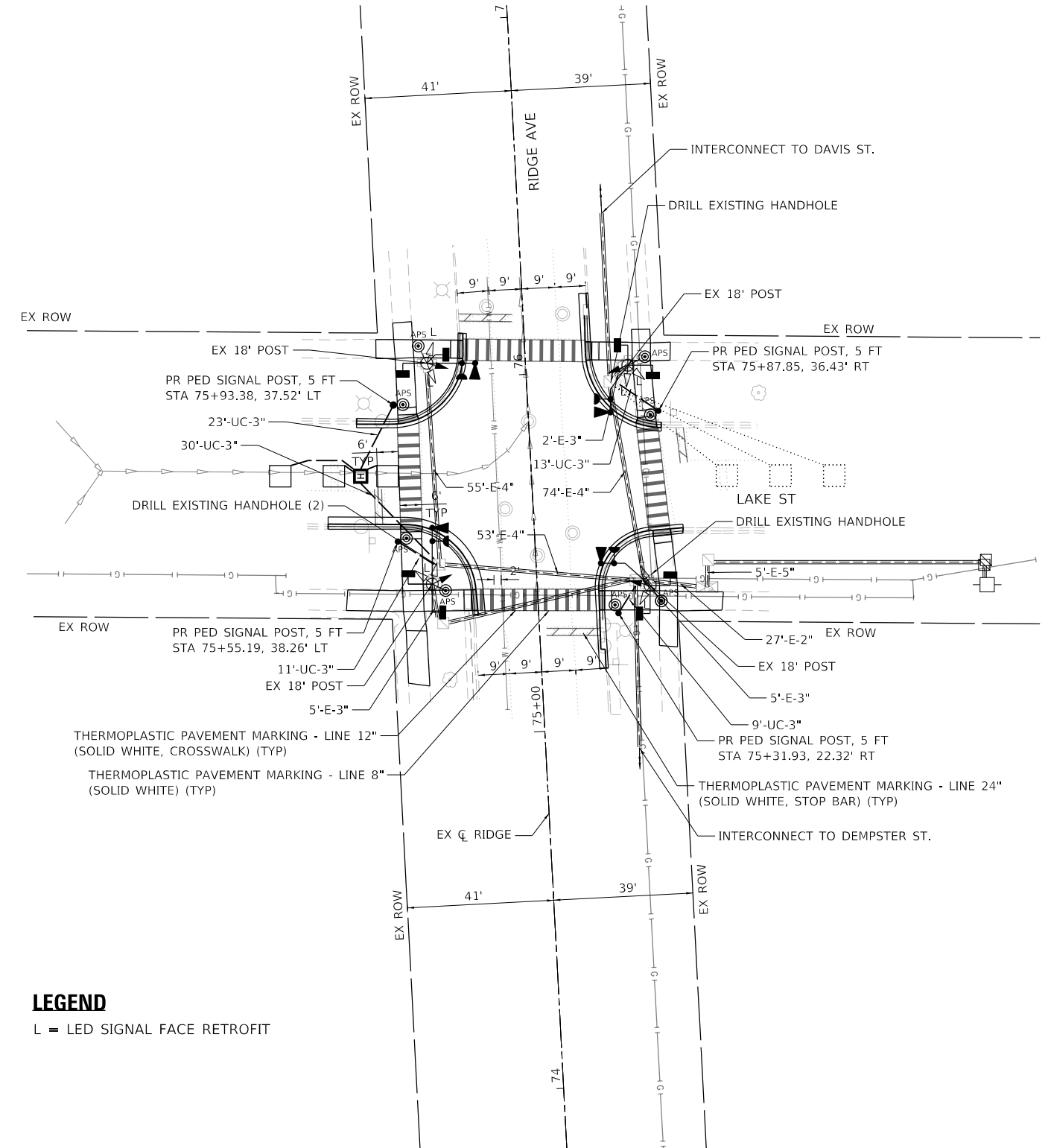
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	41
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				

SCALE: NTS SHEET OF SHEETS STA. TO STA.

REMOVAL PLAN



TRAFFIC SIGNAL MODIFICATION 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:

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

LEGEND

L = LED SIGNAL FACE RETROFIT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
TRAFFIC SIGNAL MODIFICATION PLAN - RIDGE AVENUE & LAKE STREET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	42
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				

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

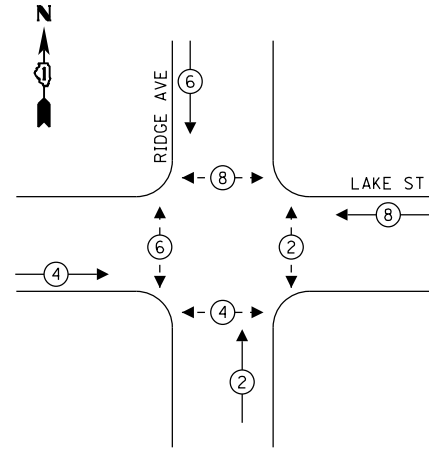
Kimley-Horn

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4001 WINDFIELD ROAD, SUITE 600
WARRENVILLE, IL 60550
PHONE: 630-487-4600
WWW.KIMLEY-HORN.COM

USER NAME = Kellen.Hinchey	DESIGNED - LMB	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN - LMB	REVISED -
PLOT DATE = 7/25/2022	CHECKED - SS	REVISED -
	DATE - 7/25/2022	REVISED -

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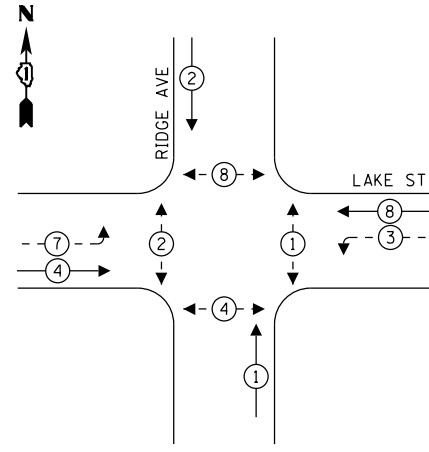
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

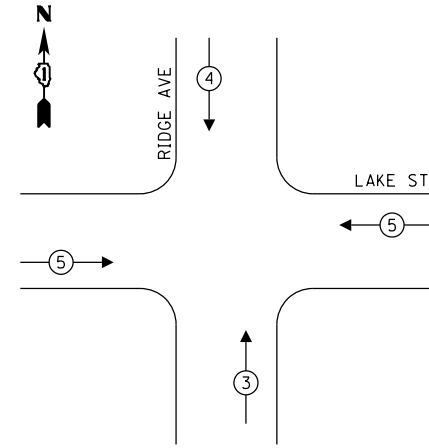
PROPOSED CONTROLLER SEQUENCE



LEGEND

L = LED SIGNAL FACE RETROFIT

**PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTORS	3	4	5
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	12	10	10	12.0
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 =				414.8

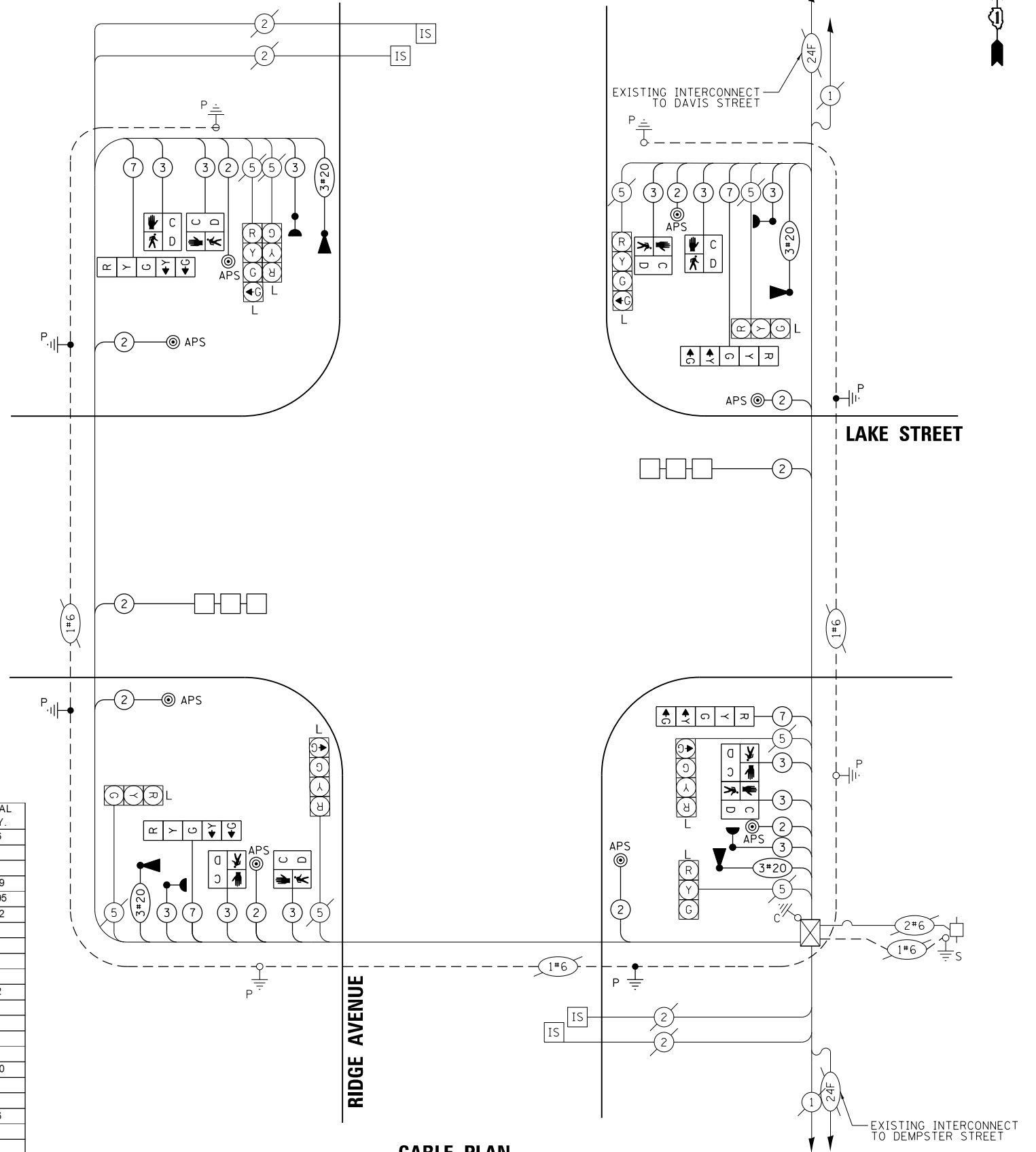
ENERGY COSTS TO:

CITY OF EVANSTON
2100 RIDGE AVE
EVANSTON, ILLINOIS 60201

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

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	86
HEAVY-DUTY HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	999
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1295
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	432
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	1
DETECTOR LOOP, TYPE 1	FOOT	72
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	EACH	450
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
PEDESTRIAN SIGNAL POST, 5 FT	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16
LED SIGNAL FACE RETROFIT, RED BALL	EACH	8
LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	8
LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	8
LED SIGNAL FACE RETROFIT, GREEN ARROW	EACH	4



CABLE PLAN
(NOT TO SCALE)

MODEL: Default FILE: \\nas01\pub\paw_bentley.com\paw_01\Documents\01_Active Projects\MK-CUS-168112004 - Ridge Avenue - Evanston\Phase II\Design\Bldg_Sheets\168112004-cable_05.dgn

Kimley»Horn

USER NAME = Kellen.Hinchey
DESIGNED - KKH
DRAWN - KKH
PLOT SCALE = 40,0000 ' / in.
PLOT DATE = 7/25/2022

REVISED -
REVISED -
REVISED -
REVISED -

DATE - 7/25/2022
REVISED -

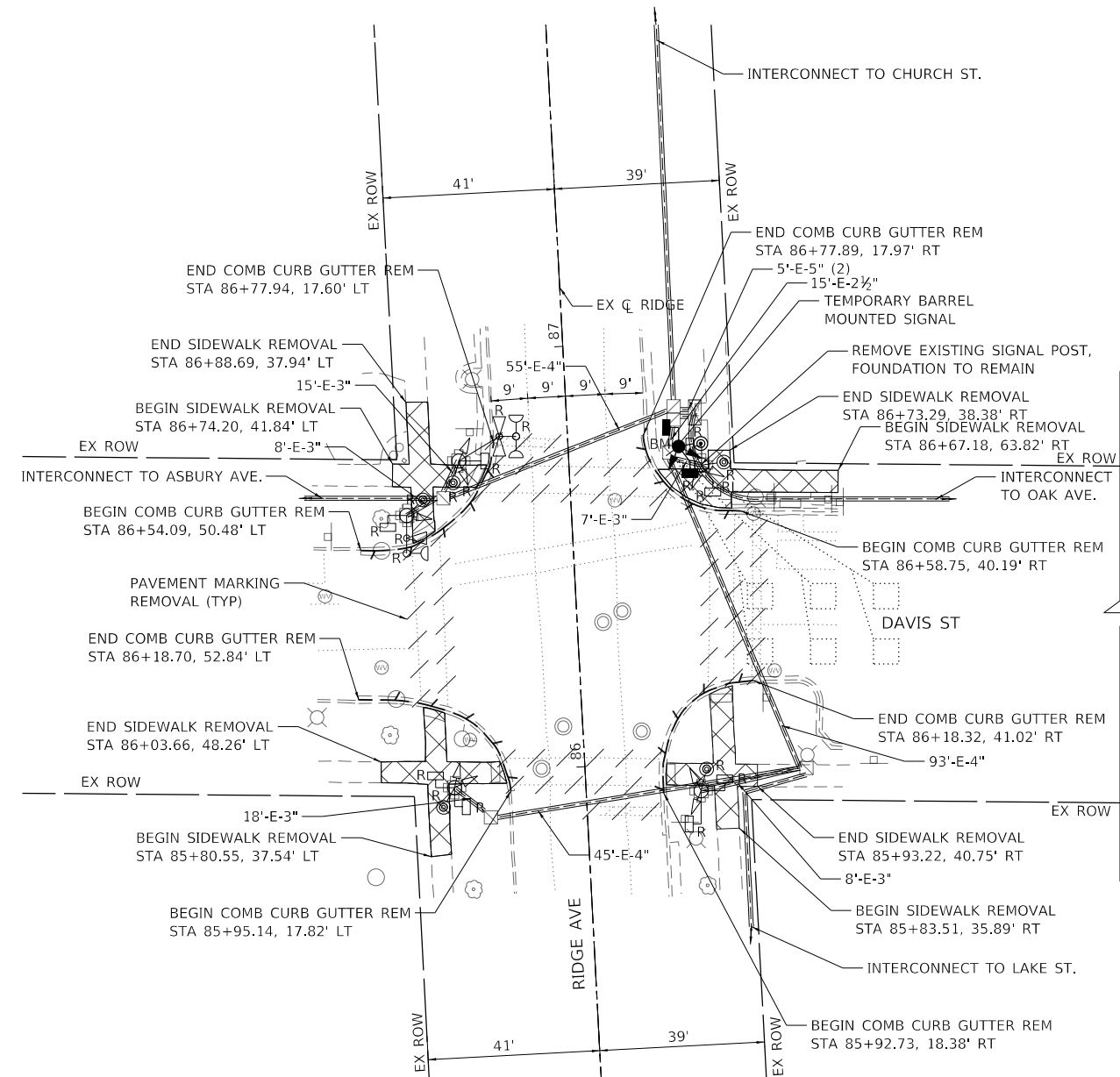
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
PROPOSED CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY
VEHICLE PREEMPTION SEQUENCE - RIDGE AVENUE & LAKE 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	43
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				

REMOVAL PLAN AND TEMPORARY SIGNAL INSTALLATION PLAN



REMOVAL AND RELOCATION NOTES:

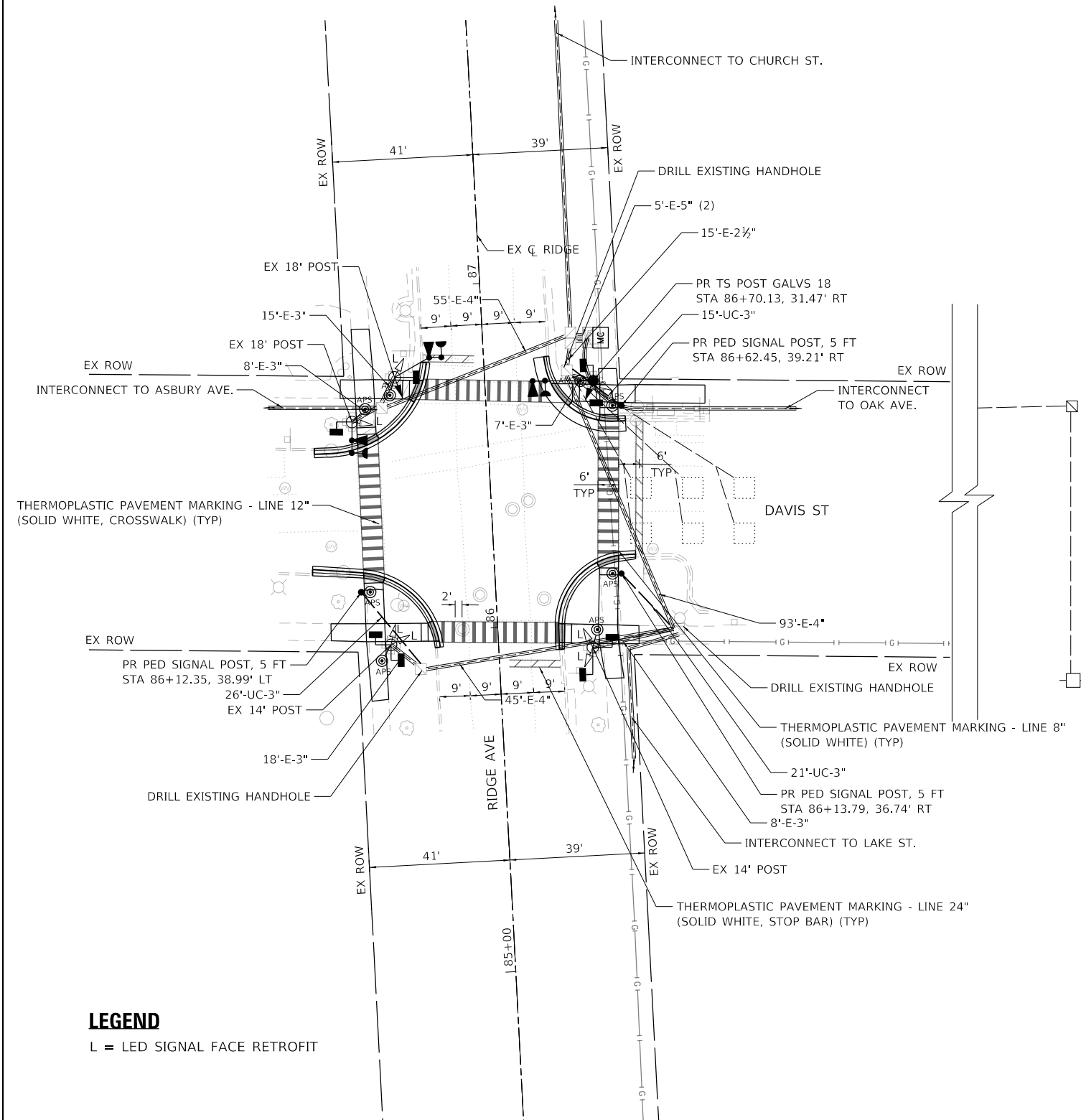
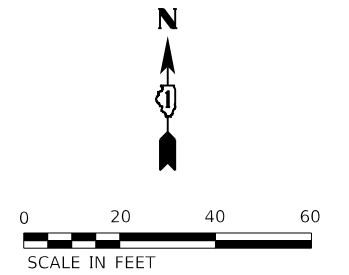
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR. TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BE CONFIRMED WITH THE CITY FOR SALVAGE BEFORE REMOVING FROM THE PROJECT SITE. ITEMS DESIGNATED FOR SALVAGE BY THE CITY SHALL BE CAREFULLY REMOVED AND RETURNED TO THE CITY. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT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

- 1 EACH TRAFFIC SIGNAL POST
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 5 EACH PEDESTRIAN PUSH-BUTTON
- 2 EACH 3-SECTION SIGNAL HEAD
- 2 EACH CONFIRMATION BEACON
- 2 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:

- 1 EACH 3-SECTION SIGNAL HEAD

TRAFFIC SIGNAL MODIFICATION PLAN



LEGEND

L = LED SIGNAL FACE RETROFIT

MODEL: Default
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USER NAME = Kellen.Hinney	DESIGNED - LMB	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN - LMB	REVISED -
PLOT DATE = 7/25/2022	CHECKED - SS	REVISED -
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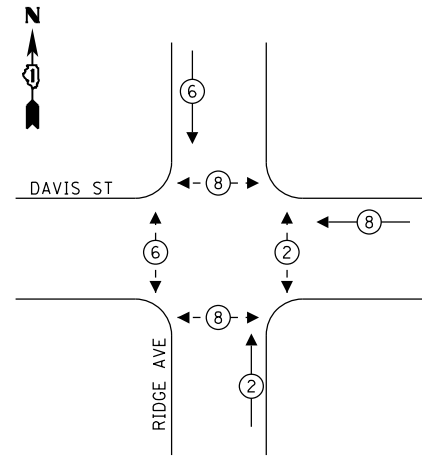
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
TRAFFIC SIGNAL MODIFICATION PLAN - RIDGE AVENUE & DAVIS STREET**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	44
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				

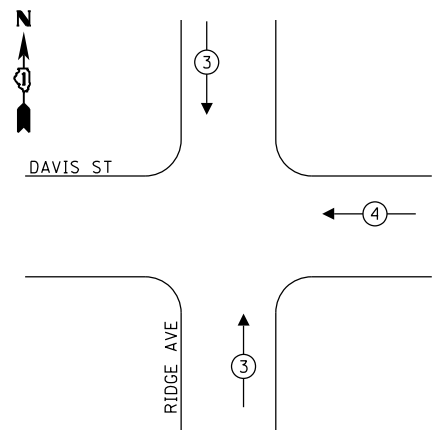
EXISTING AND TEMPORARY CONTROLLER SEQUENCE



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)	9	11	50	49.5
(YELLOW)	9	20	5	9.0
(GREEN)	9	12	45	48.6
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 =				367.1

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 = 7/25/2022

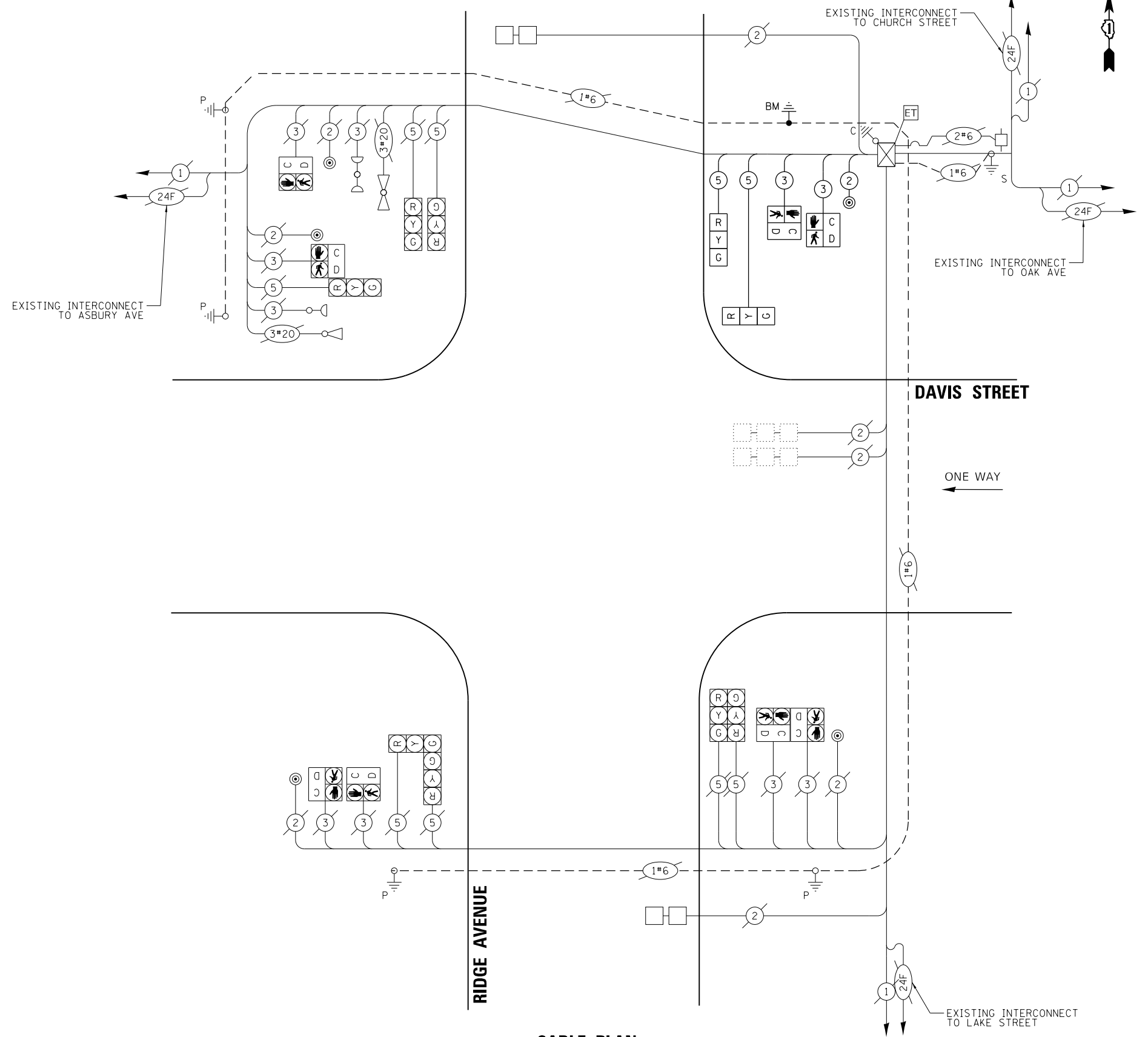
REVISOR -
REVISION -
CHECKED - SS
DATE - 7/25/2022

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
EXISTING CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY
VEHICLE PREEMPTION SEQUENCE - RIDGE AVENUE & DAVIS 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	45
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				

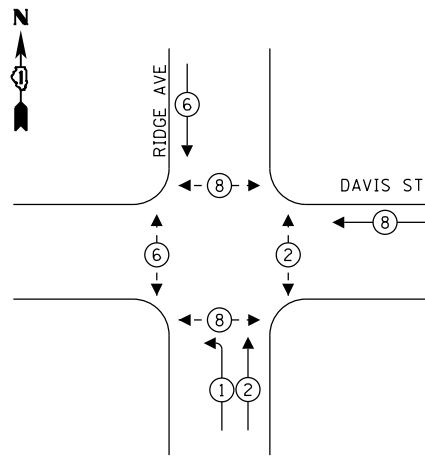


CABLE PLAN

(NOT TO SCALE)

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PROPOSED CONTROLLER SEQUENCE

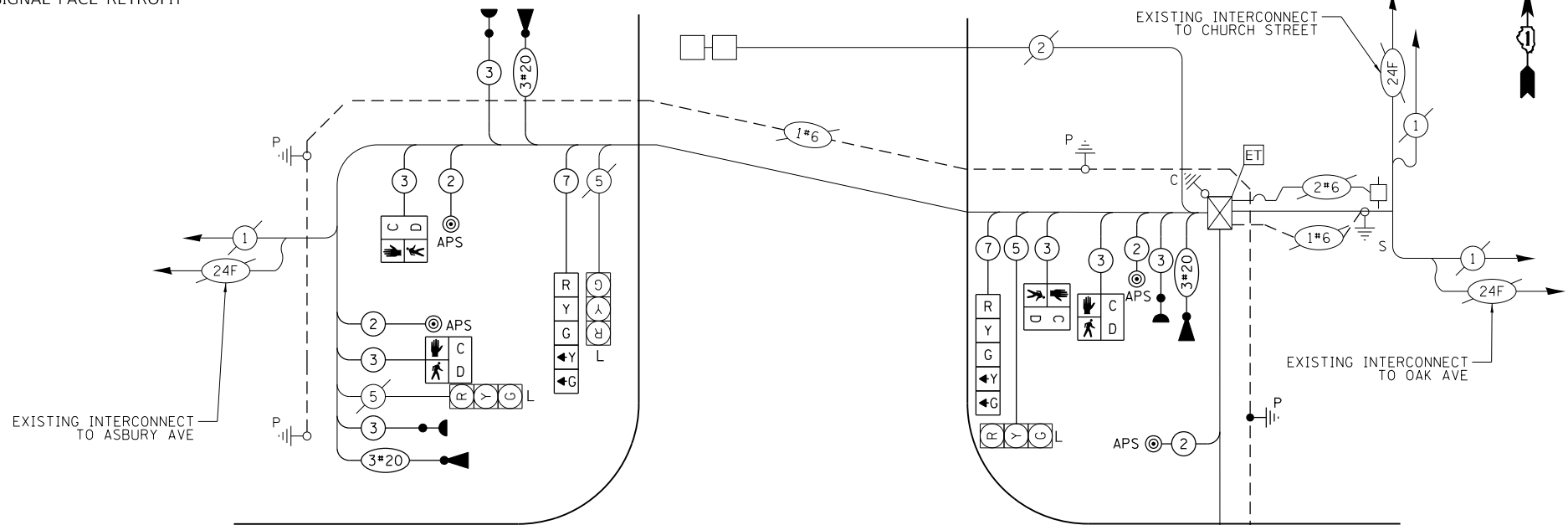


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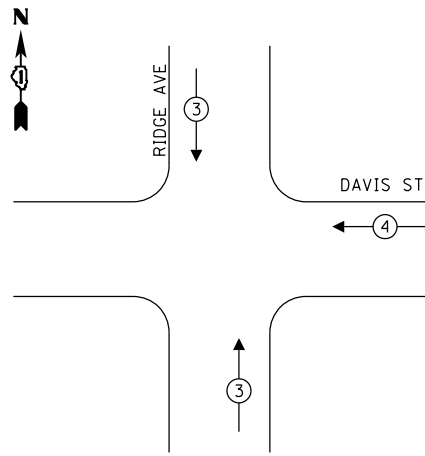
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- ← (⊙) ← PROTECTED/PERMITTED PHASE
- ← (⊙) → PEDESTRIAN PHASE

LEGEND

L = LED SIGNAL FACE RETROFIT



PROPOSED 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)	9	11	50	49.5
(YELLOW)	9	20	5	9.0
(GREEN)	9	12	45	48.6
ARROW	4	10	10	4.0
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 =				371.1

ENERGY COSTS TO:

CITY OF EVANSTON
2100 RIDGE AVE
EVANSTON, ILLINOIS 60201

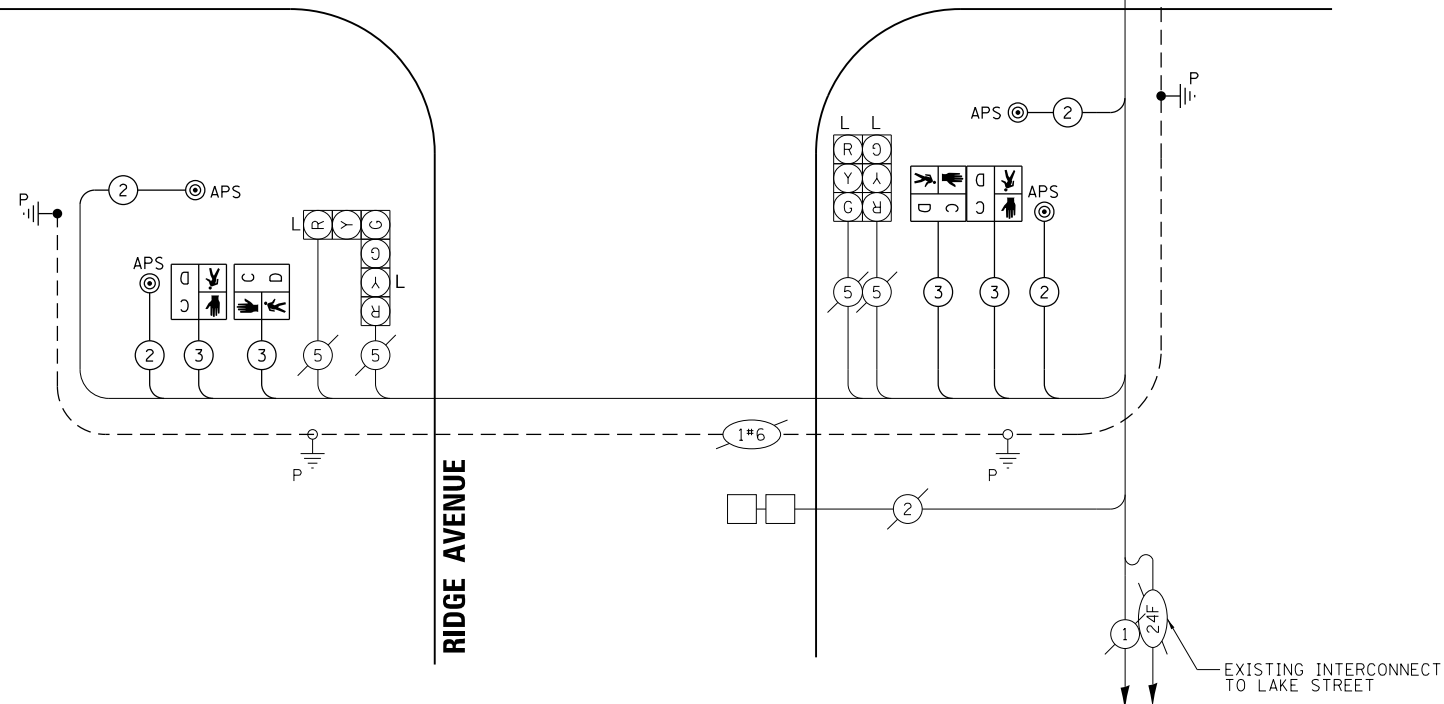
ENERGY SUPPLY: CONTACT: LARRY SHANK
PHONE: 847-921-7629

COMPANY: COMMONWEALTH EDISON

ACCOUNT NUMBER: ---

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	62
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MASTER CONTROLLER	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1061
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1338
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	53
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	159
TRAFFIC SIGNAL POST, 18 FT. (SPECIAL)	EACH	1
DRILL EXISTING HANDHOLE	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	EACH	283
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
PEDESTRIAN SIGNAL POST, 5 FT	EACH	3
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)	EACH	1
LED SIGNAL FACE RETROFIT, RED BALL	EACH	7
LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	7
LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	7



CABLE PLAN

(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	46
CONTRACT NO. 61H94				

SCALE: NTS SHEET OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

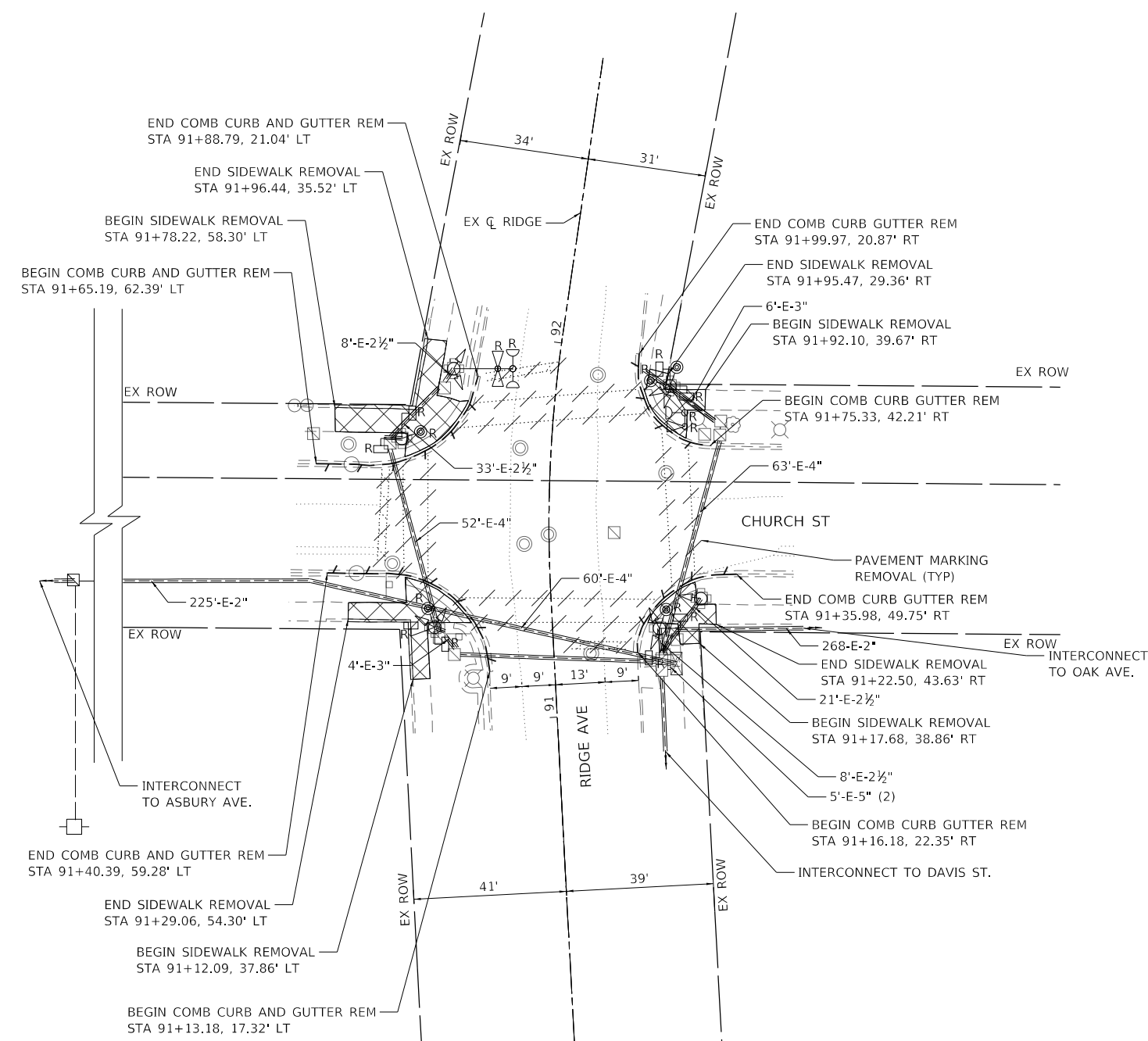
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400 WINDFIELD ROAD, SUITE 600
WARRENVILLE, IL 60550
PHONE: 630-471-6600
WWW.KIMLEY-HORN.COM

USER NAME = Kellen.Hinchey
DESIGNED - KKH
DRAWN - KKH
PLOT SCALE = 40,0000 ' / in.
CHECKED - SS
PLOT DATE = 7/28/2022
REVISIED -
REVISIED -
REVISIED -
REVISIED -

DATE - 7/28/2022
REVISIED -

REMOVAL PLAN

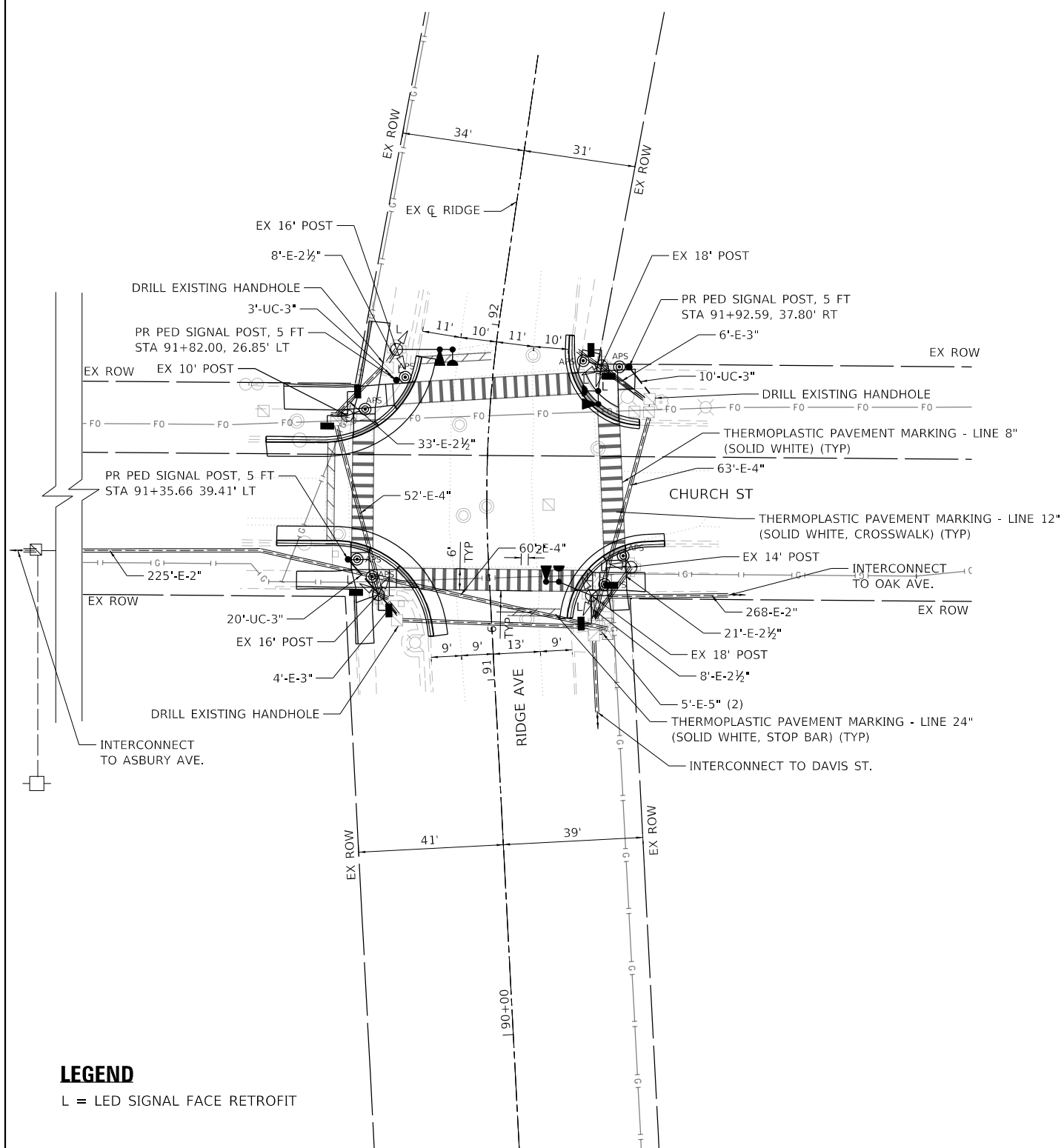


REMOVAL AND RELOCATION NOTES:

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:

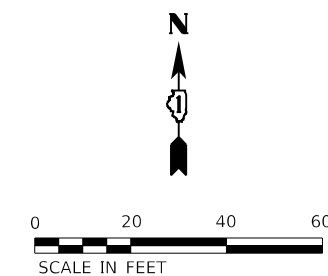
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 4 EACH PEDESTRIAN PUSH-BUTTON
- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR

TRAFFIC SIGNAL MODIFICATION PLAN



LEGEND

L = LED SIGNAL FACE RETROFIT



MODEL: Default
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 WARRENVILLE, IL 60550
 PHONE: 630-471-6600
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USER NAME = Kellen.Hinchey	DESIGNED - LMB	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - LMB	REVISED -
PLOT DATE = 7/25/2022	CHECKED - SS	REVISED -
	DATE - 7/25/2022	REVISED -

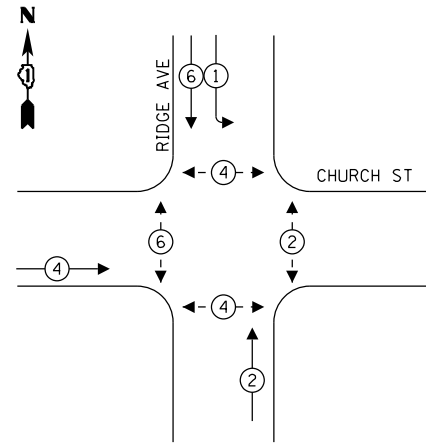
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
TRAFFIC SIGNAL MODIFICATION PLAN - RIDGE AVE & CHURCH ST

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	47
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE

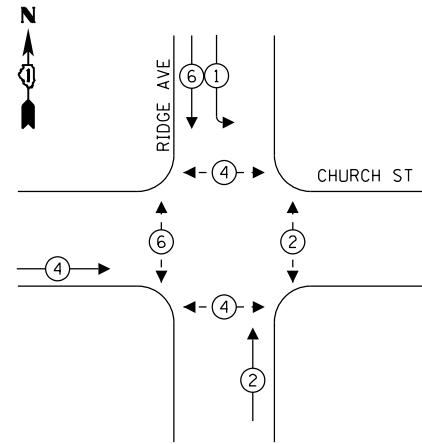


LEGEND:

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

EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↕	→

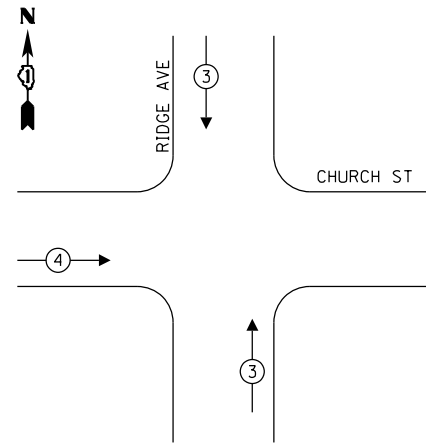
PROPOSED CONTROLLER SEQUENCE



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	13
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	893
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1218
DRILL EXISTING HANDHOLE	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	EACH	346
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
PEDESTRIAN SIGNAL POST, 5 FT	EACH	3
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
LED SIGNAL FACE RETROFIT, RED BALL	EACH	9
LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	9
LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	9
LED SIGNAL FACE RETROFIT, YELLOW ARROW	EACH	2
LED SIGNAL FACE RETROFIT, GREEN ARROW	EACH	2

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	11	50	49.5
(YELLOW)	9	20	5	9.0
(GREEN)	9	12	45	48.6
ARROW	4	10	10	4.0
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 =				471.3

ENERGY COSTS TO:

CITY OF EVANSTION
9100 RIDGE AVE
EVANSTION, ILLINOIS 60201

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

Kimley-Horn

USER NAME = Kellen.Hinchey	DESIGNED - KKH	REVISED -
PLOT SCALE = 40.0000 "/td> <td>DRAWN - KKH</td> <td>REVISED -</td>	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
PROPOSED CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE – RIDGE AVENUE & CHURCH STREET

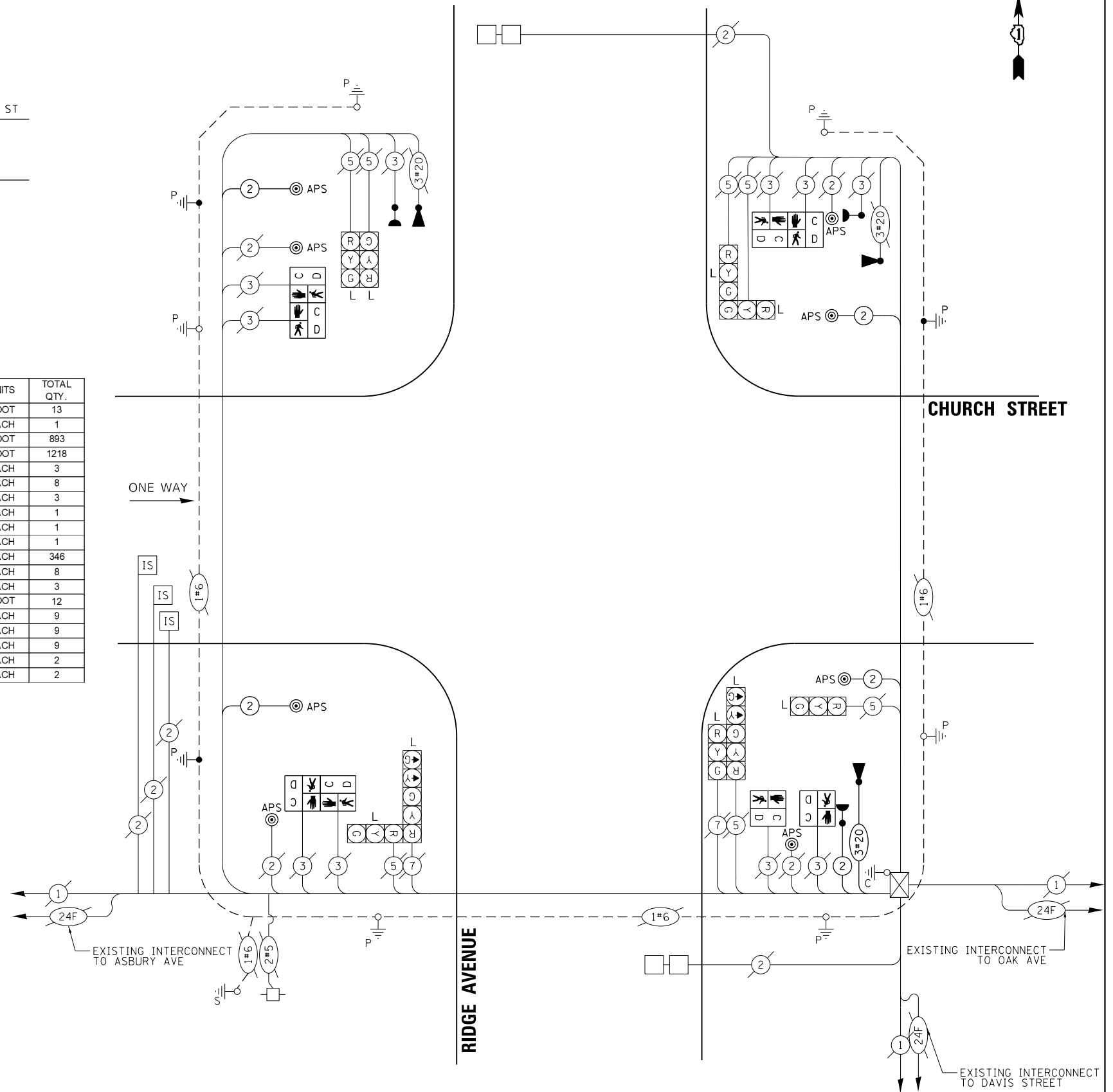
SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	48

CONTRACT NO. 61H94

LEGEND

L = LED SIGNAL FACE RETROFIT



CABLE PLAN
(NOT TO SCALE)

MODEL: Default
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 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 4001 MARKET ROAD, SUITE 600
 WARRENVILLE, IL 60090
 PHONE: 630-471-6000
 WWW.KIMLEY-HORN.COM

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

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

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USER NAME = foatemj	DESIGNED - IP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLCT SCALE = 50.0000' / in.	CHECKED - LP	REVISED -		SCALE: NONE	SHEET 1	OF 7 SHEETS	STA.	TO STA.	TS-05		CONTRACT NO.
PLCT DATE = 3/4/2019	DATE - 9/29/2016	REVISED -		ILLINOIS FED. AID PROJECT							

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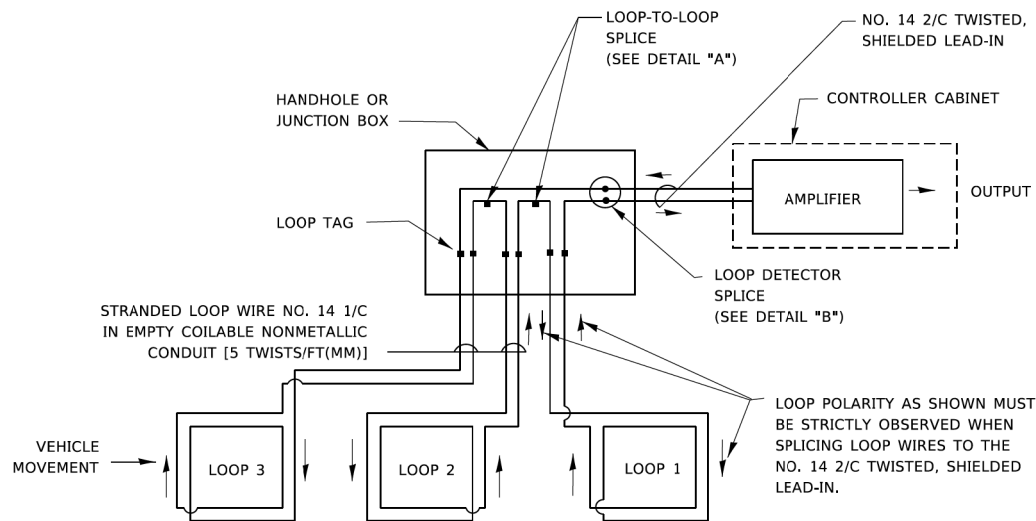


USER NAME = Kellen.Hinchey	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2,000.0' / in.	CHECKED -	REVISED -
PLOT DATE = 7/25/2022	DATE - 7/25/2022	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS DISTRICT ONE DETAILS				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
SCALE: NTS	SHEET 1	OF 10 SHEETS	STA.	TO STA.	SCALE: NONE	SHEET 1	OF 7 SHEETS	STA.	TO STA.	2744	19-00284-00-CH	COOK	59	50
ILLINOIS FED. AID PROJECT											CONTRACT NO. 61H94			

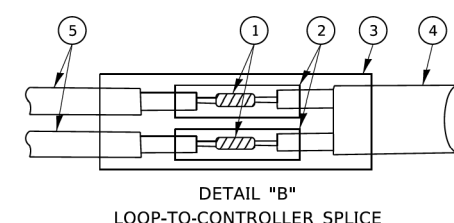
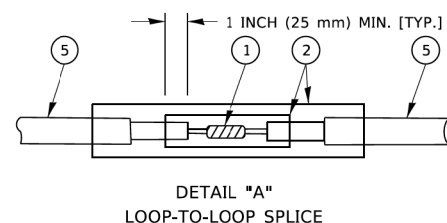
LOOP DETECTOR NOTES

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- PERFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.



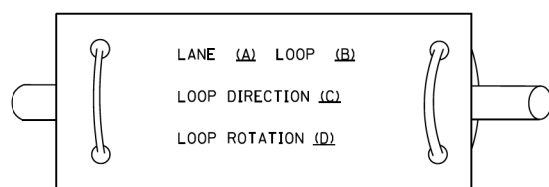
DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES. SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE,
- THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

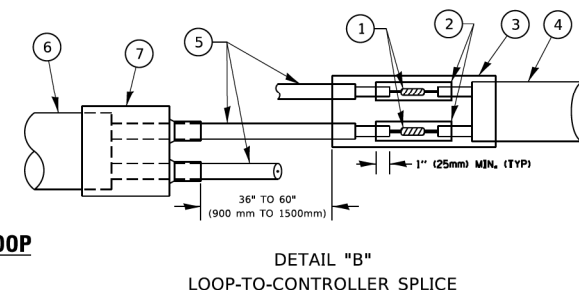
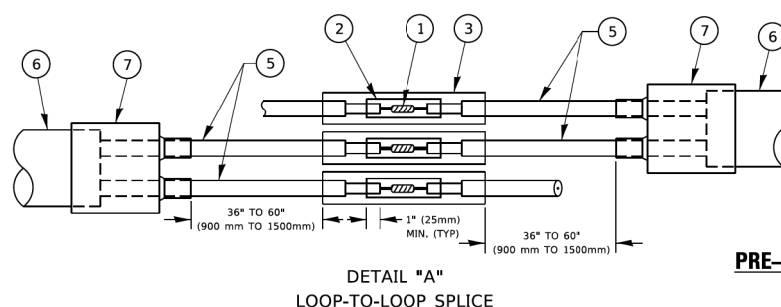


TYPE I LOOP

LOOP LEAD-IN CABLE TAG



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



PRE-FORMED LOOP

LOOP DETECTOR SPLICE

- | | |
|--|---|
| <ul style="list-style-type: none"> ① WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED. ② WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE. ③ WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE. ④ NO. 14 2/C TWISTED, SHIELDED CABLE. | <ul style="list-style-type: none"> ⑤ LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PRE-FORMED LOOP ⑥ XL POLYOLEFIN 2 CONDUCTOR ⑦ BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL |
|--|---|

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PLCT DATE = 3/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TS-05			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

SCALE: NONE | SHEET 2 OF 7 SHEETS | STA. TO STA.

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USER NAME = Kellen.Hinchey	DESIGNED -	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/25/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

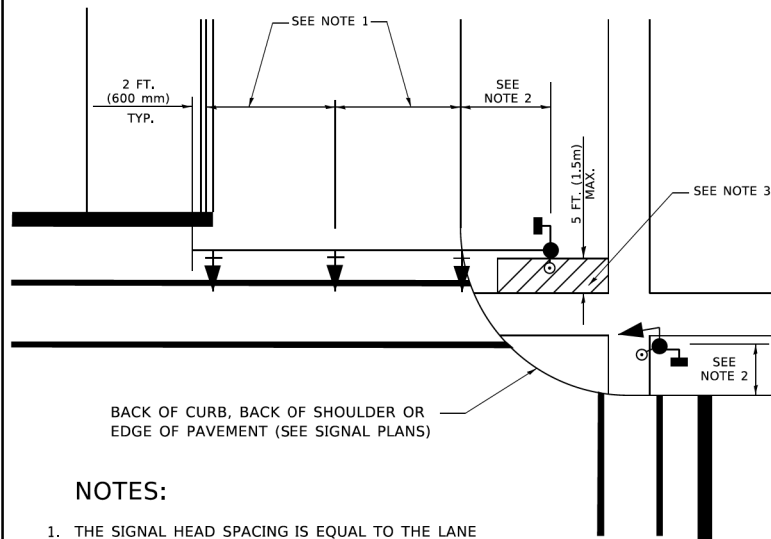
**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
DISTRICT ONE DETAILS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	51
CONTRACT NO. 61H94				
ILLINOIS FED. AID PROJECT				

SCALE: NTS | SHEET 2 OF 10 SHEETS | STA. TO STA.

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

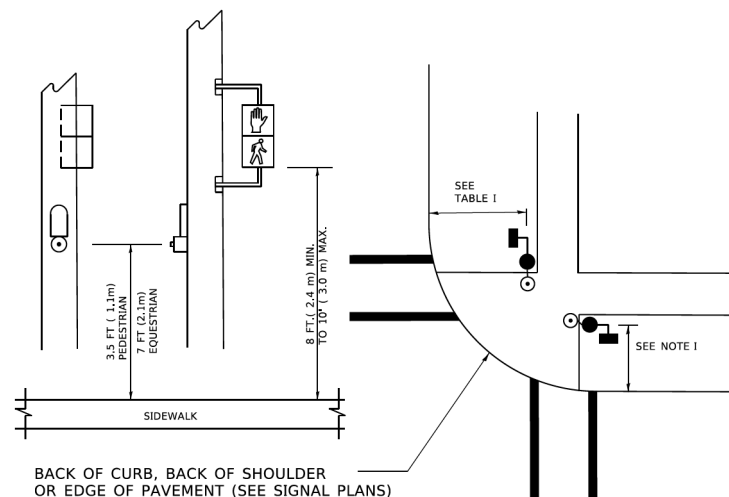
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

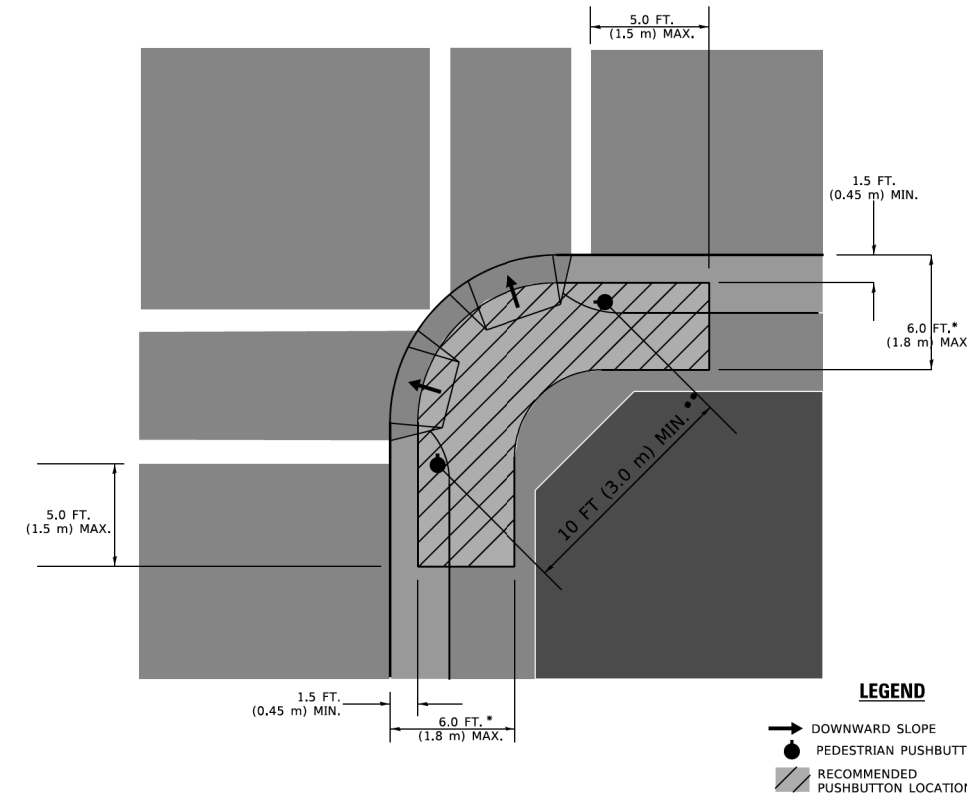
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- * WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

MODEL: Default
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USER NAME = footemj	DESIGNED -	REVISED -
PLCT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLCT DATE = 3/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TS-05			
ILLINOIS FED. AID PROJECT			CONTRACT NO.	

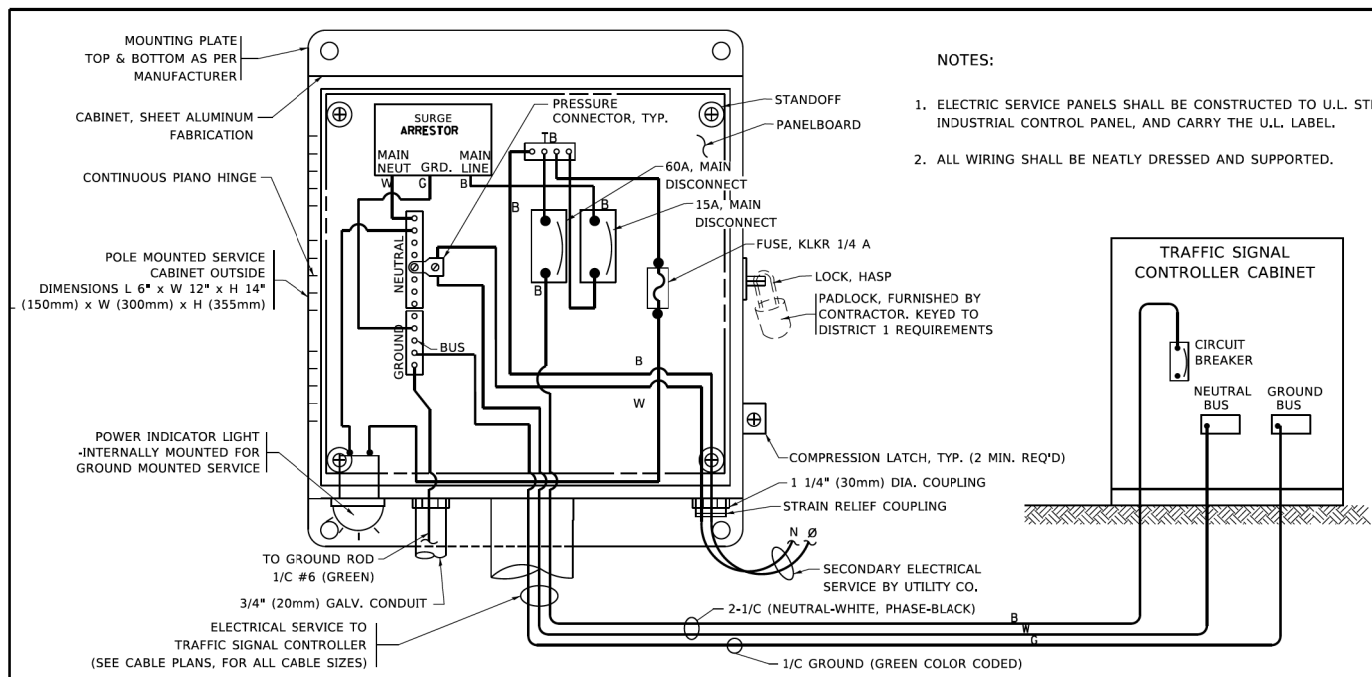
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PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/25/2022	DATE - 7/25/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

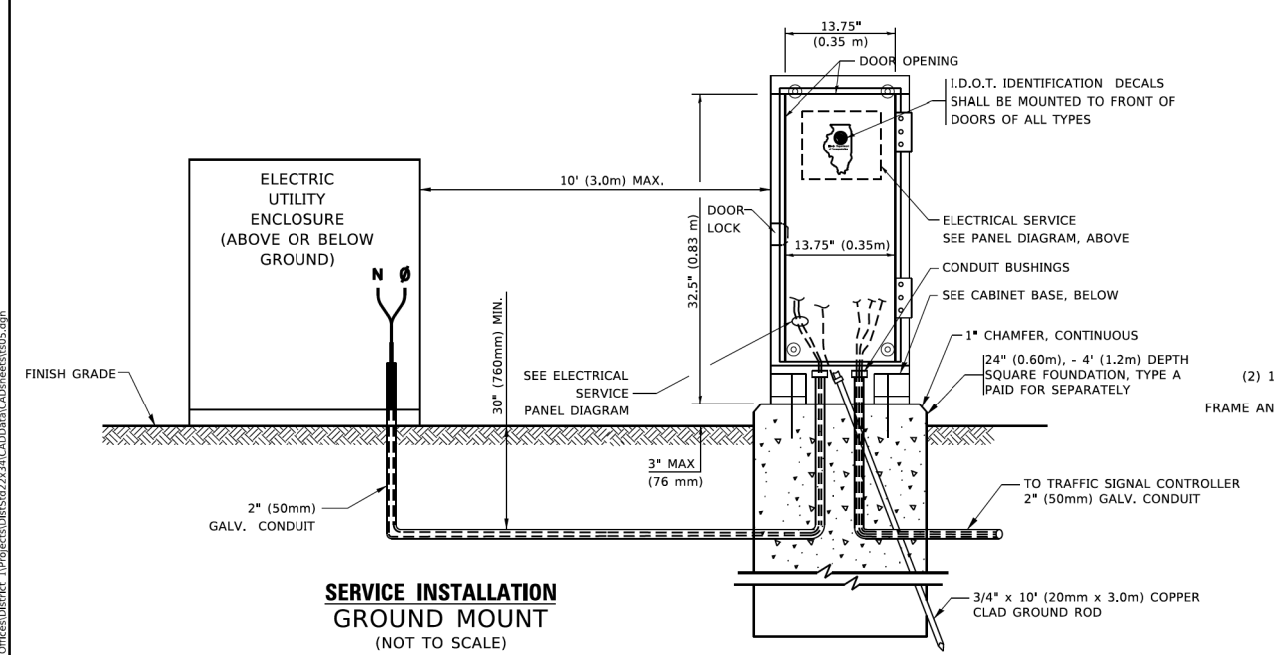
**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
DISTRICT ONE DETAILS**

SCALE: NTS SHEET 3 OF 10 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	52
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H94	

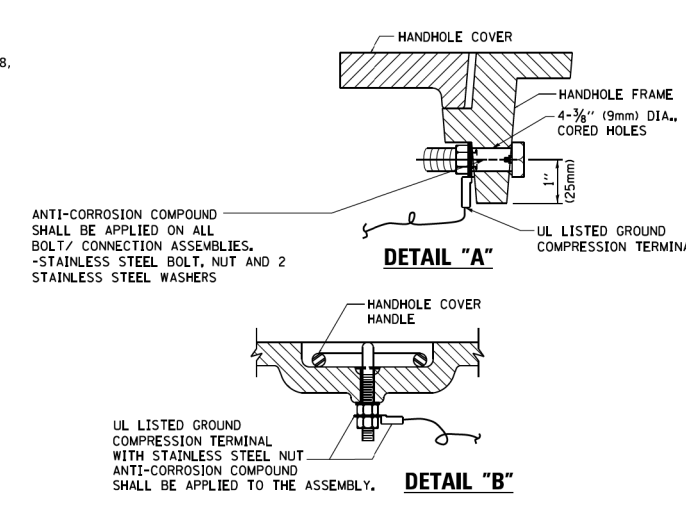
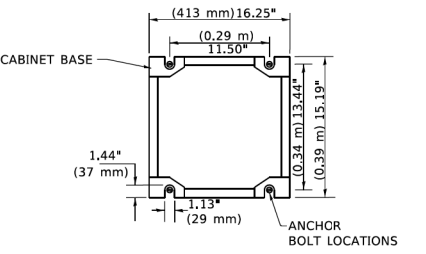


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)



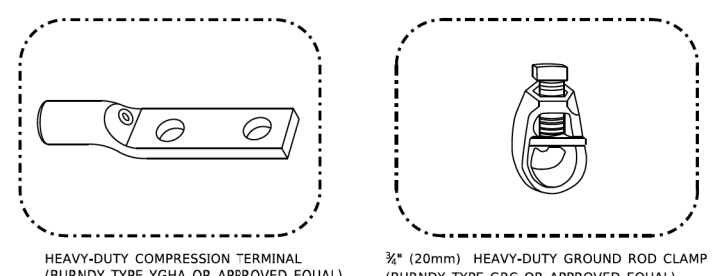
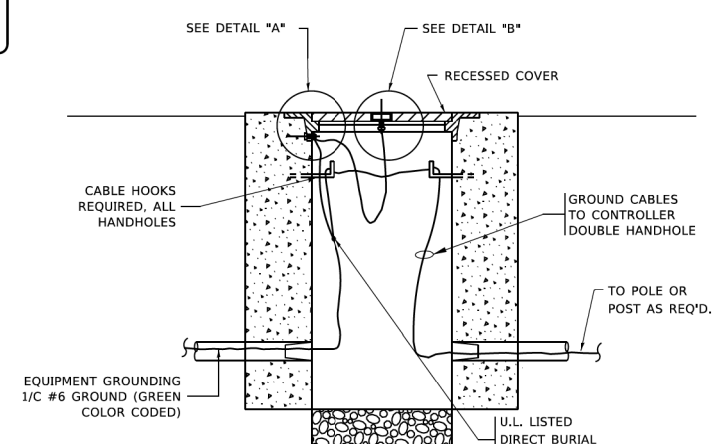
SERVICE INSTALLATION GROUND MOUNT
(NOT TO SCALE)

CABINET - BASE BOLT PATTERN
(NOT TO SCALE)



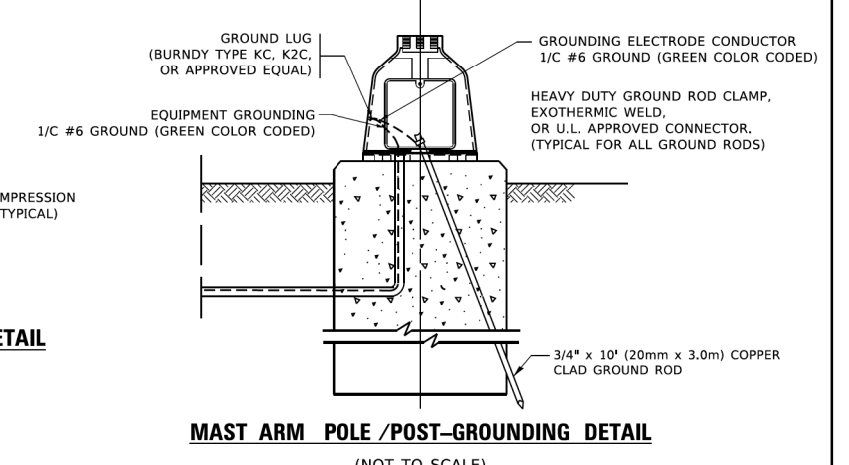
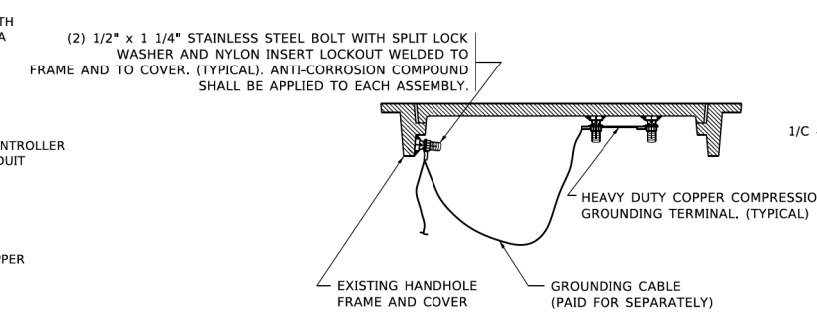
NOTES:
GROUNDING SYSTEM

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



NOTES:

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



USER NAME = footemj	DESIGNED -	REVISED -
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PLCT DATE = 3/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 4 OF 7 SHEETS STA. TO STA.

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



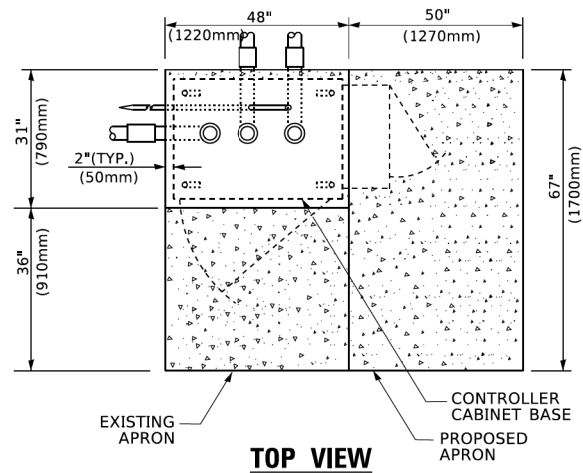
USER NAME = Kellen.Hinchey	DESIGNED -	REVISED -
PLOT SCALE = 2,0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 7/25/2022	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

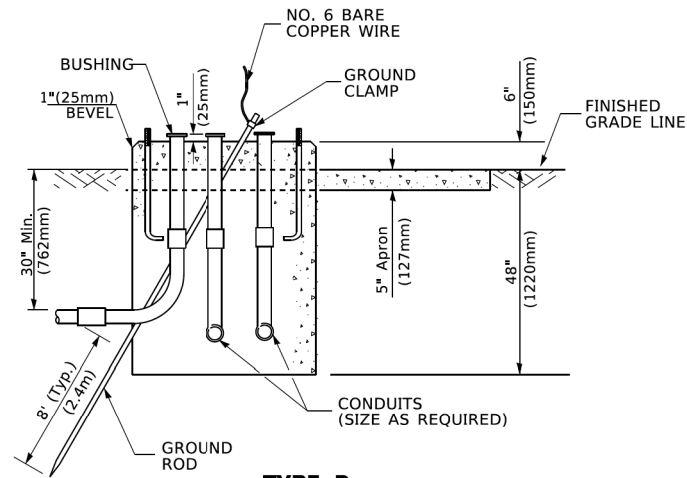
RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
DISTRICT ONE DETAILS

SCALE: NTS SHEET 4 OF 10 SHEETS STA. TO STA.

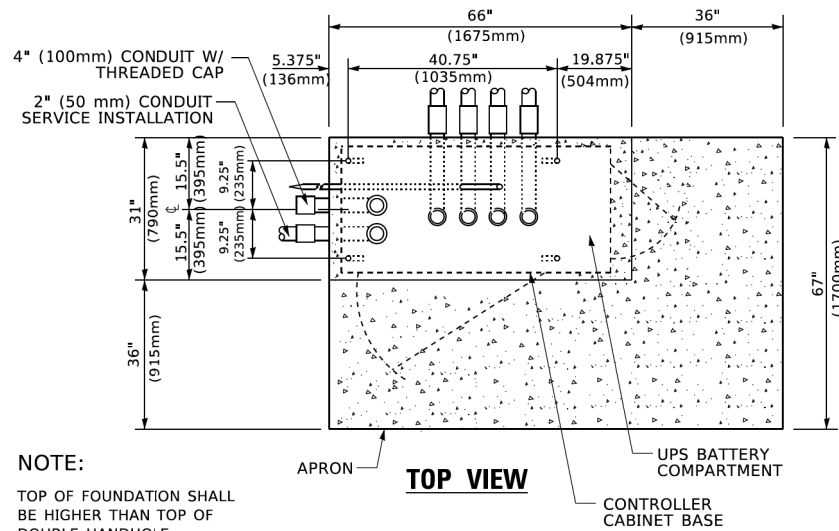
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	53
CONTRACT NO.			61H94	
ILLINOIS FED. AID PROJECT				



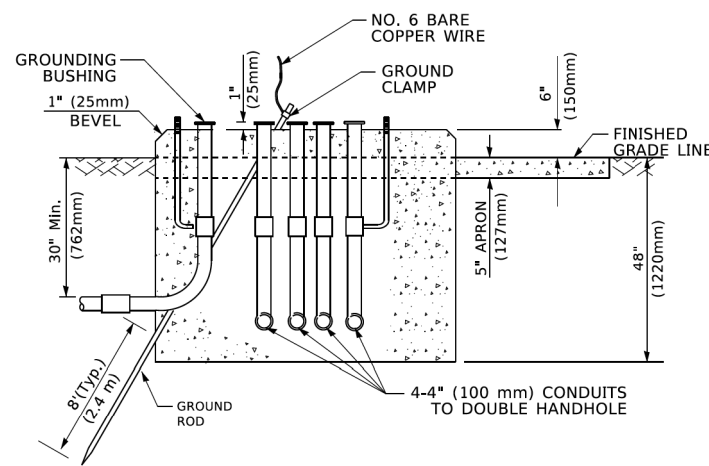
EXISTING APRON
TOP VIEW
 CONTROLLER CABINET BASE
 PROPOSED APRON



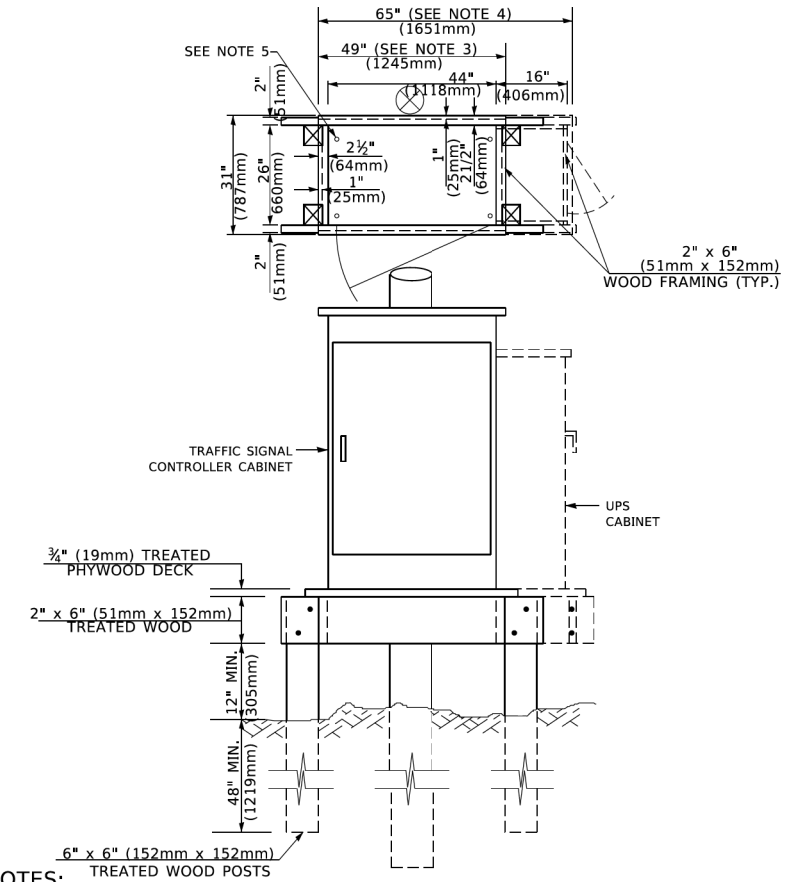
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



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



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



NOTES:

- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED
- BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

MAST ARM LENGTH	FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

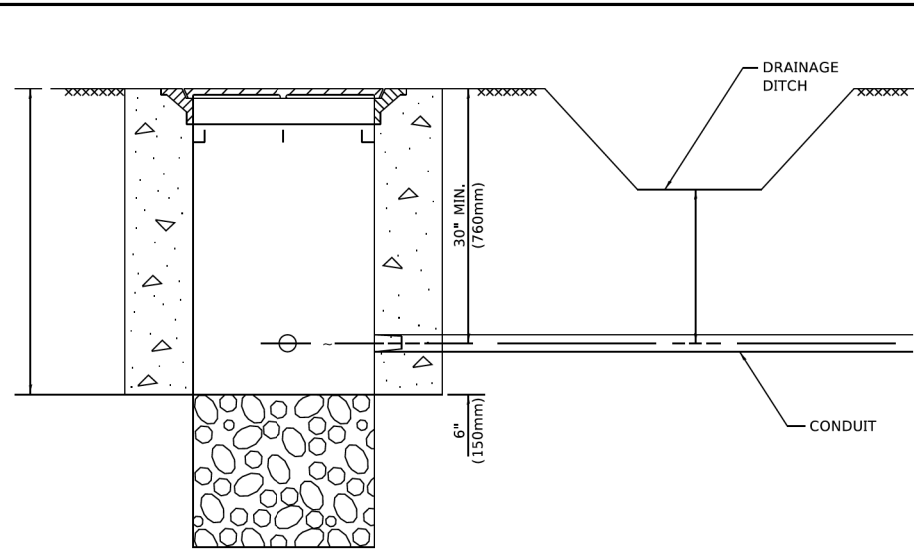
- These foundation depths are for sites which have cohesive soils (clay silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (UCS) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
- Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
- For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

USER NAME = footej	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLCT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -			SCALE: NONE	SHEET 5	OF 7 SHEETS	STA. TO STA.	CONTRACT NO.	
PLCT DATE = 3/4/2019	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

USER NAME = Kellen.Hinney	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS DISTRICT ONE DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 2,000.0 ' / in.	CHECKED -	REVISED -			SCALE: NTS	SHEET 5	OF 10 SHEETS	STA. TO STA.	CONTRACT NO. 61H94	
PLOT DATE = 7/25/2022	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

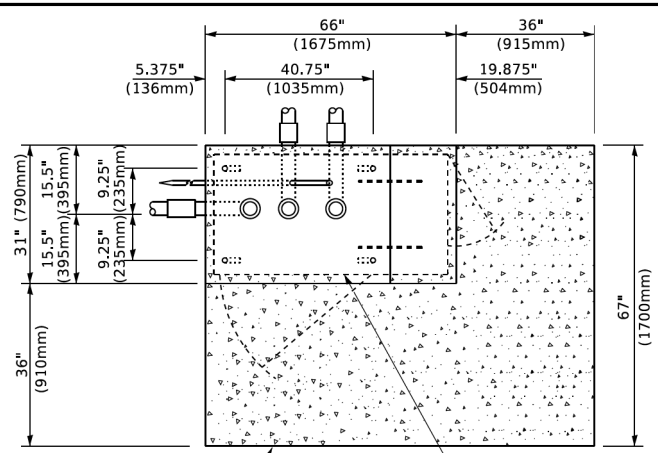
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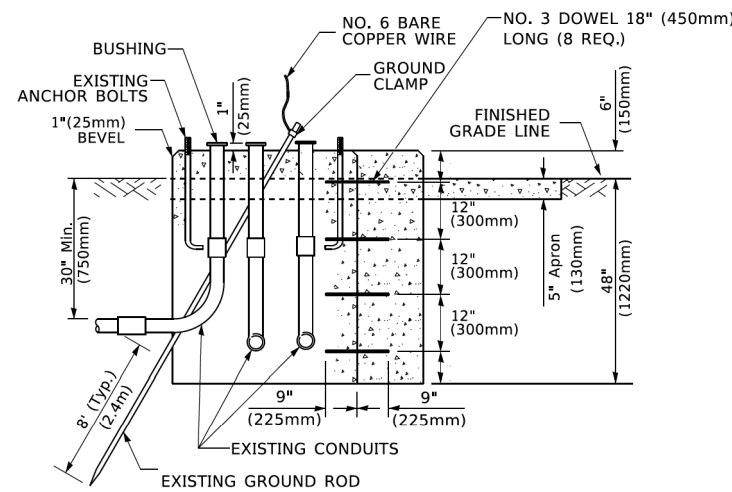
NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



TOP VIEW
(NOT TO SCALE)

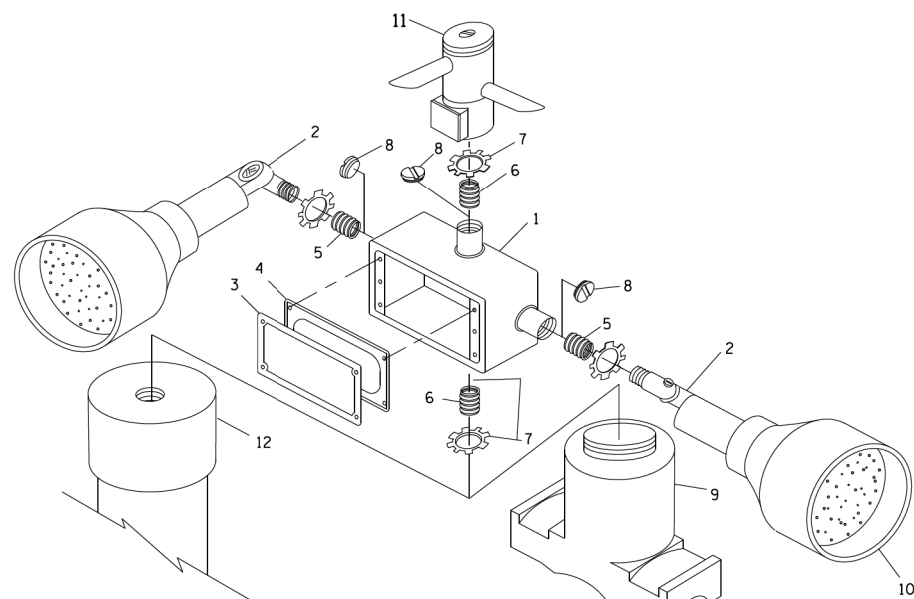


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.00344 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:

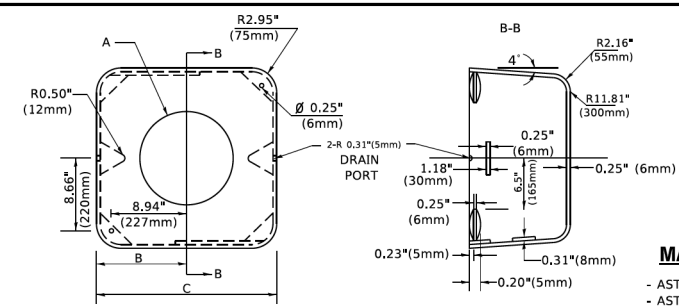
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE 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.



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

USER NAME = footemj	DESIGNED -	REVISED -
PLCT SCALE = 50.0000 " / in.	DRAWN -	REVISED -
PLCT DATE = 3/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



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)

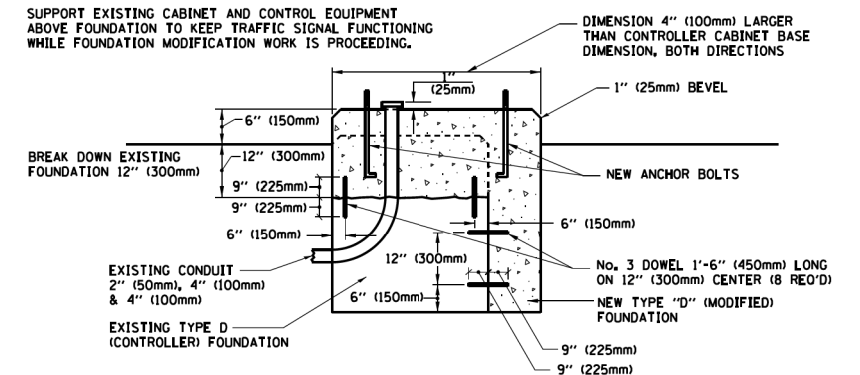
SHROUD

NOTES:

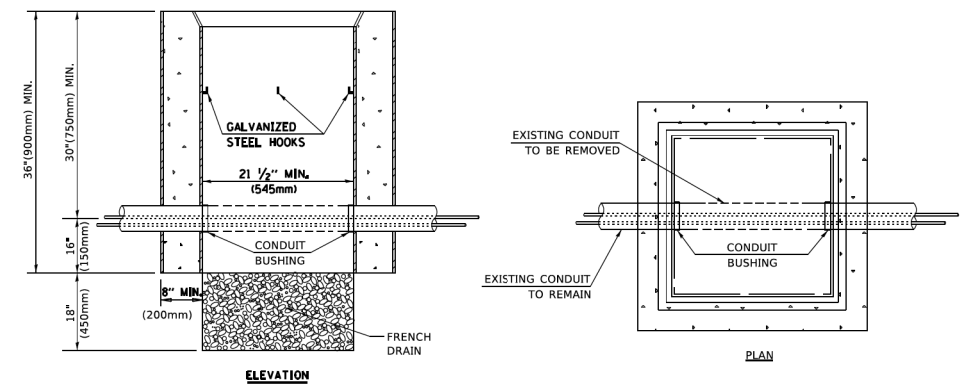
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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

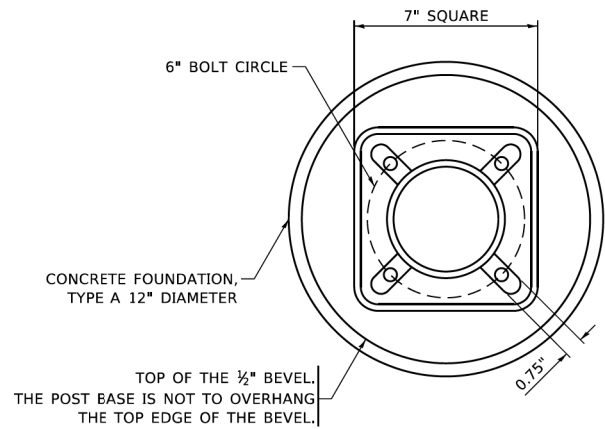
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SCALE: NONE		TS-05			
	SHEET 6 OF 7 SHEETS	STA. TO STA.	CONTRACT NO.			
			ILLINOIS FED. AID PROJECT			

USER NAME = Kellen.Hinney	DESIGNED -	REVISED -
PLOT SCALE = 2.0000 " / in.	DRAWN -	REVISED -
PLOT DATE = 7/25/2022	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
DISTRICT ONE DETAILS

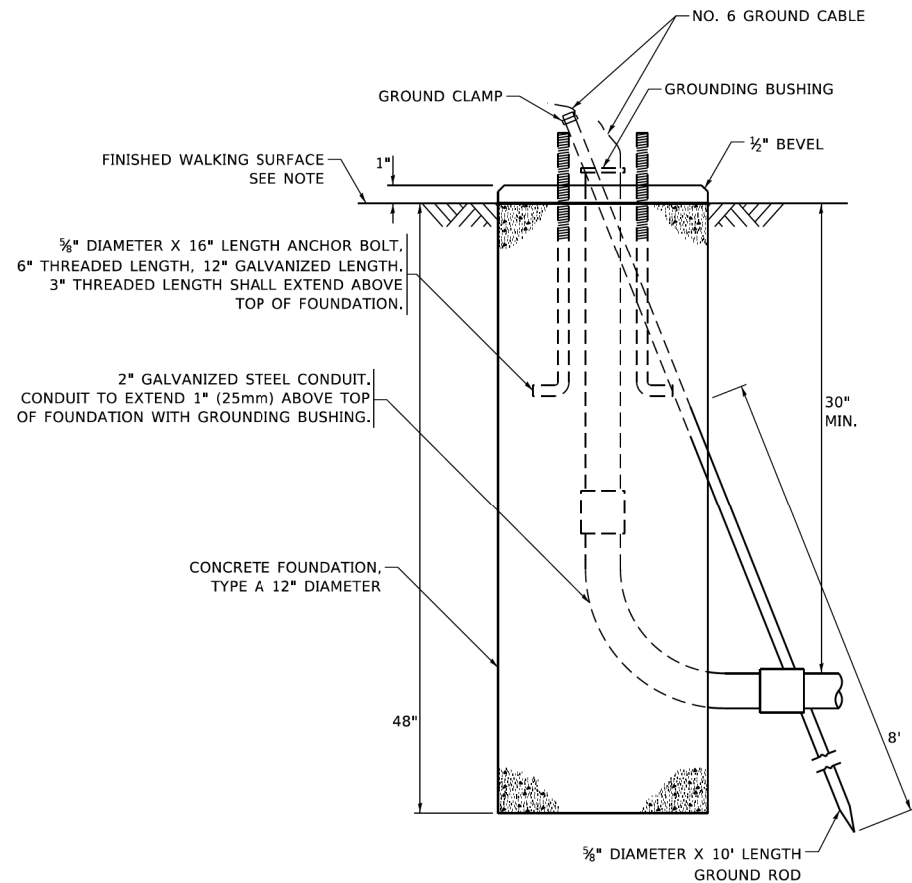
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			2744	19-00284-00-CH	COOK	59	55
			CONTRACT NO. 61H94				
			ILLINOIS FED. AID PROJECT				



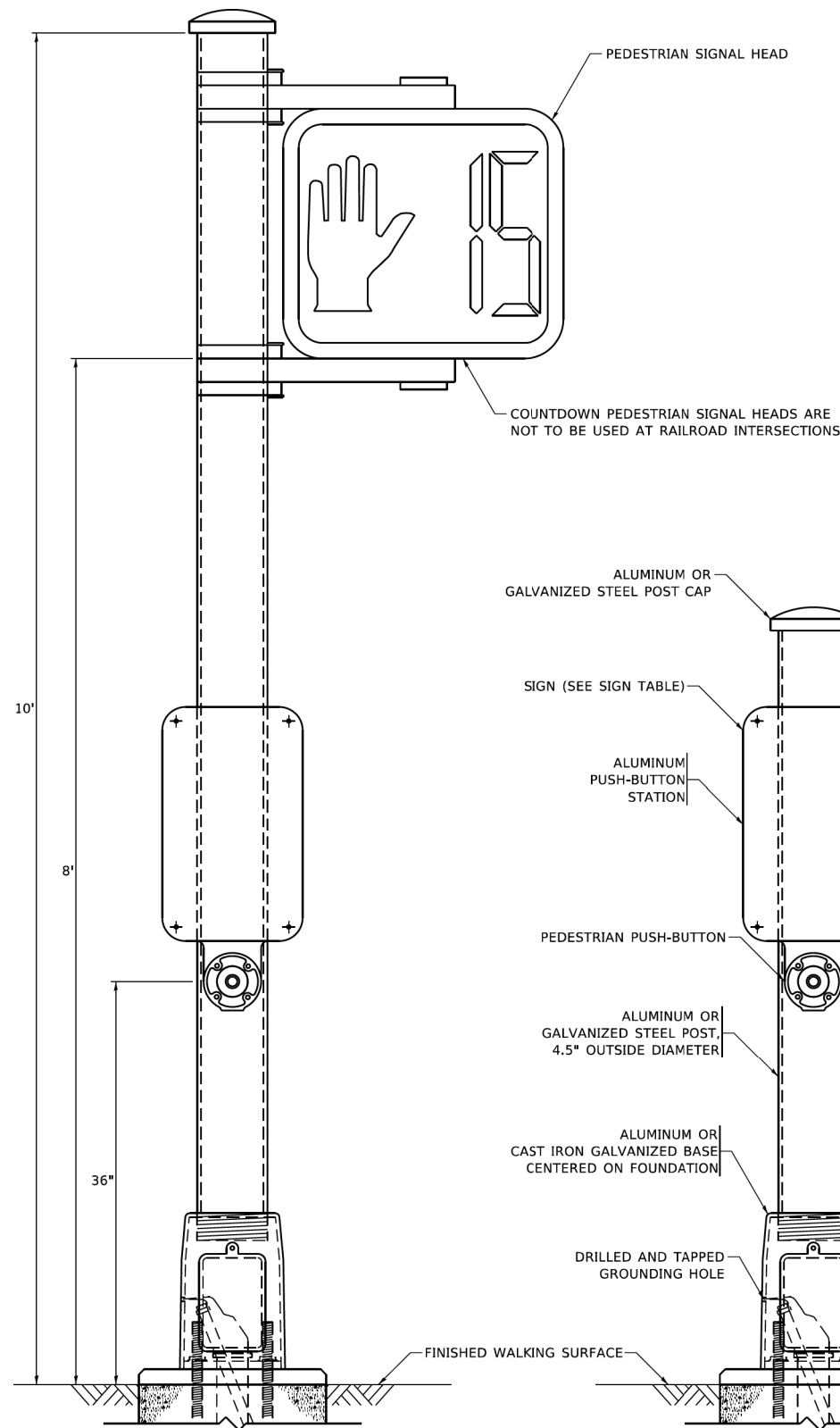
BOLT PATTERN

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.

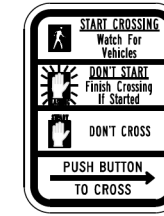


**CONCRETE FOUNDATION,
TYPE A 12-INCH DIAMETER**

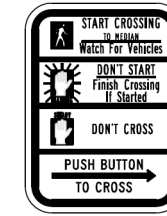


PEDESTRIAN SIGNAL POST, 10 FT.

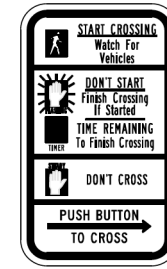
PEDESTRIAN SIGNAL POST, 5 FT.



R10-3b



R10-3d



R10-3e

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.

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USER NAME = gaglianob	DESIGNED - IP	REVISED - 10-15-2020
PLCT SCALE = 100.0000' / in.	DRAWN - IP	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TS-05			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

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



USER NAME = Kellen.Hinchey	DESIGNED -	REVISED -
PLCT SCALE = 2,0000' / in.	DRAWN -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

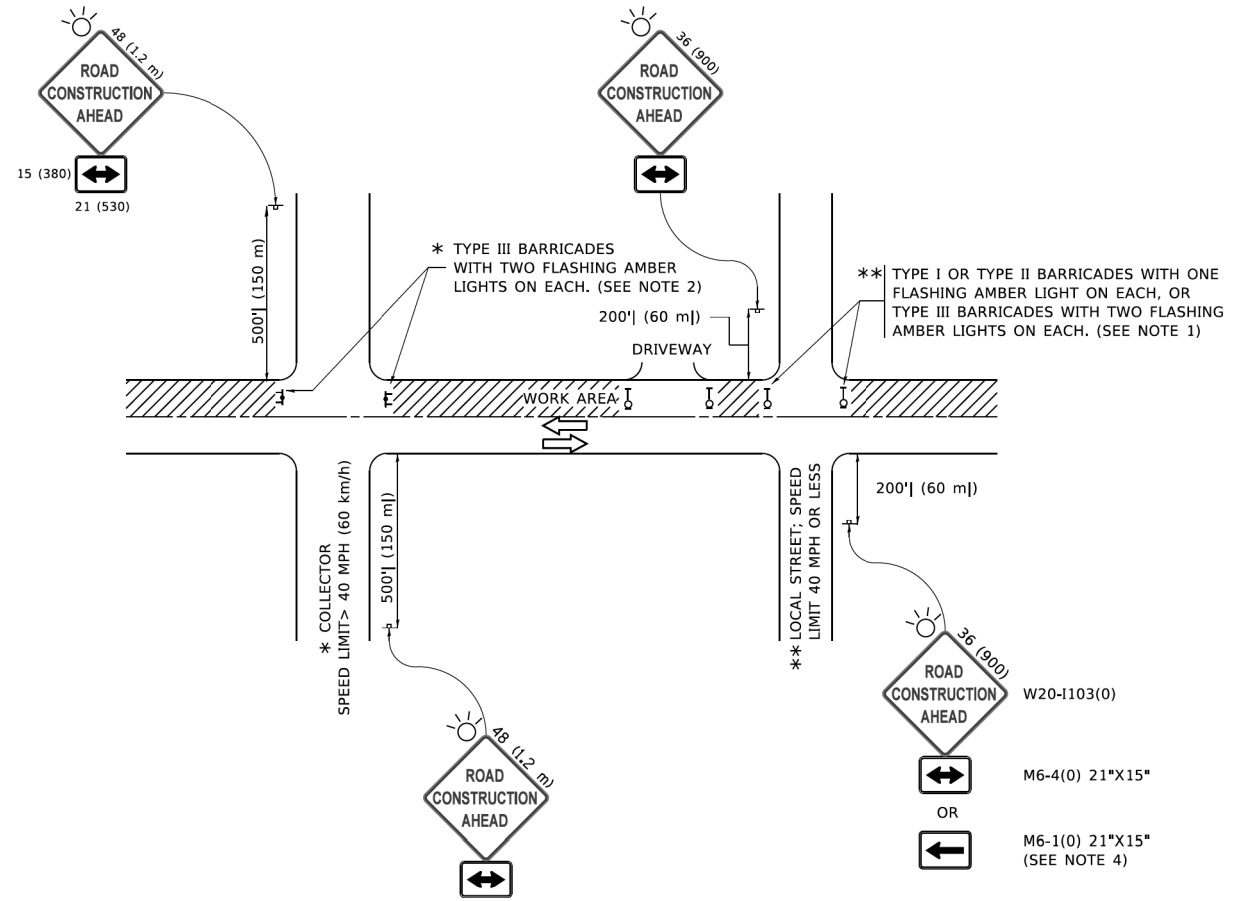
**RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
DISTRICT ONE DETAILS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2744	19-00284-00-CH	COOK	59	56
			CONTRACT NO. 61H94	
ILLINOIS FED. AID PROJECT				

SCALE: NTS SHEET 7 OF 10 SHEETS STA. TO STA.

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 C:\Users\pawbentley\Documents\01 Active Projects\WV\CHS-168112004 - Ridge Avenue - Elevation\Phase II\Design\Plan_Sheets\168112004-std_det_08.dgn



NOTES:

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

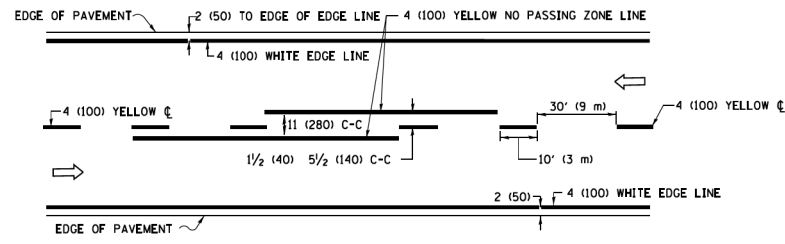
All dimensions are in inches (millimeters) unless otherwise shown.

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DRAWN -	REVISOR - T. RAMMACHER 01-06-00	SCALE: NONE			SHEET 1 OF 1 SHEETS	STA.	TO STA.	TC-10		
PLCT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13						ILLINOIS FED. AID PROJECT		
PLCT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16				CONTRACT NO.				

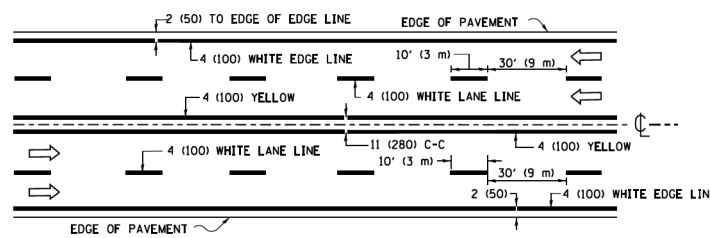
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DRAWN -	REVISOR -	SCALE: NTS			SHEET 8 OF 10 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
PLCT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -						CONTRACT NO. 61H94		
PLCT DATE = 7/25/2022	DATE - 7/25/2022	REVISED -				CONTRACT NO. 61H94				



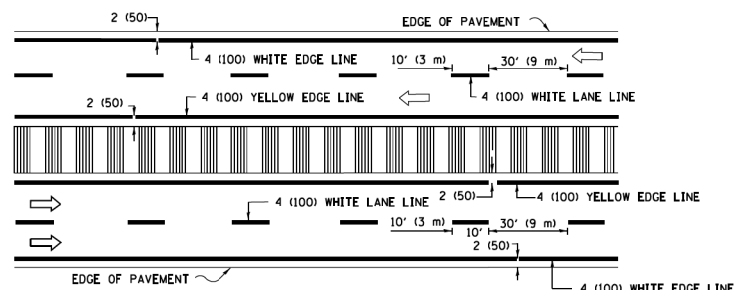
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 WARRENVILLE, IL 60550
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2-LANE ROADWAY

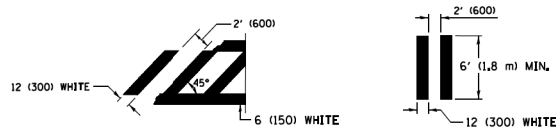
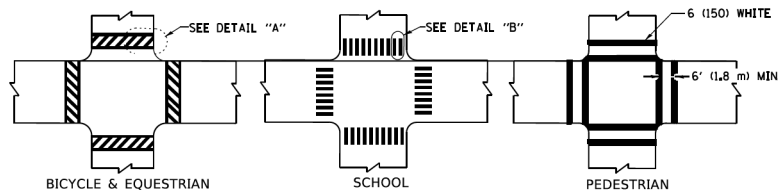


MULTI-LANE UNDIVIDED



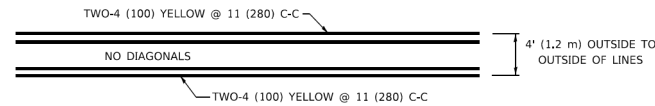
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

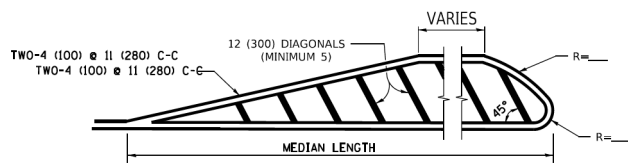


TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



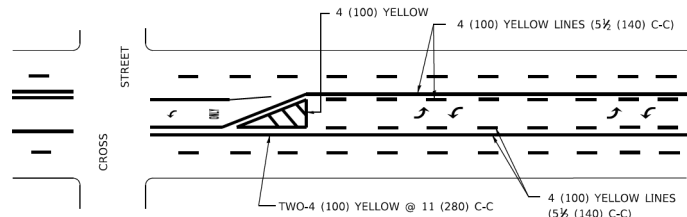
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE

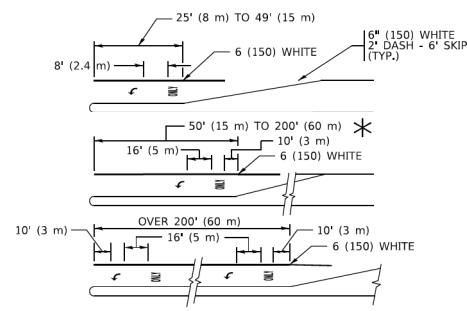
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



MEDIAN WITH TWO-WAY LEFT TURN LANE

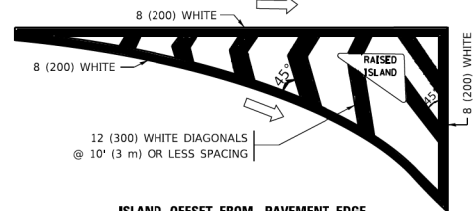
TYPICAL PAINTED MEDIAN MARKING



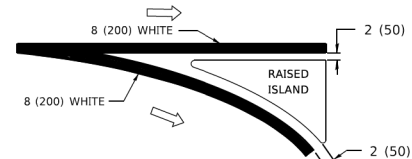
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

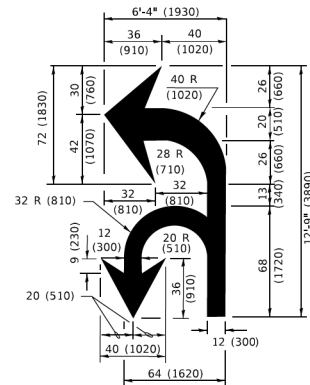


ISLAND OFFSET FROM PAVEMENT EDGE

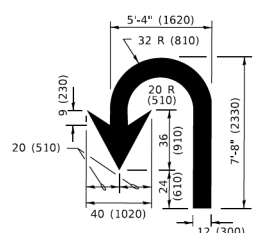


ISLAND AT PAVEMENT EDGE

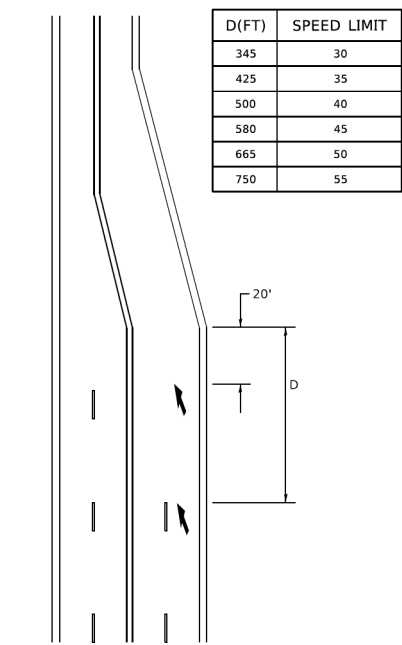
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN



LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8" (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8" (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

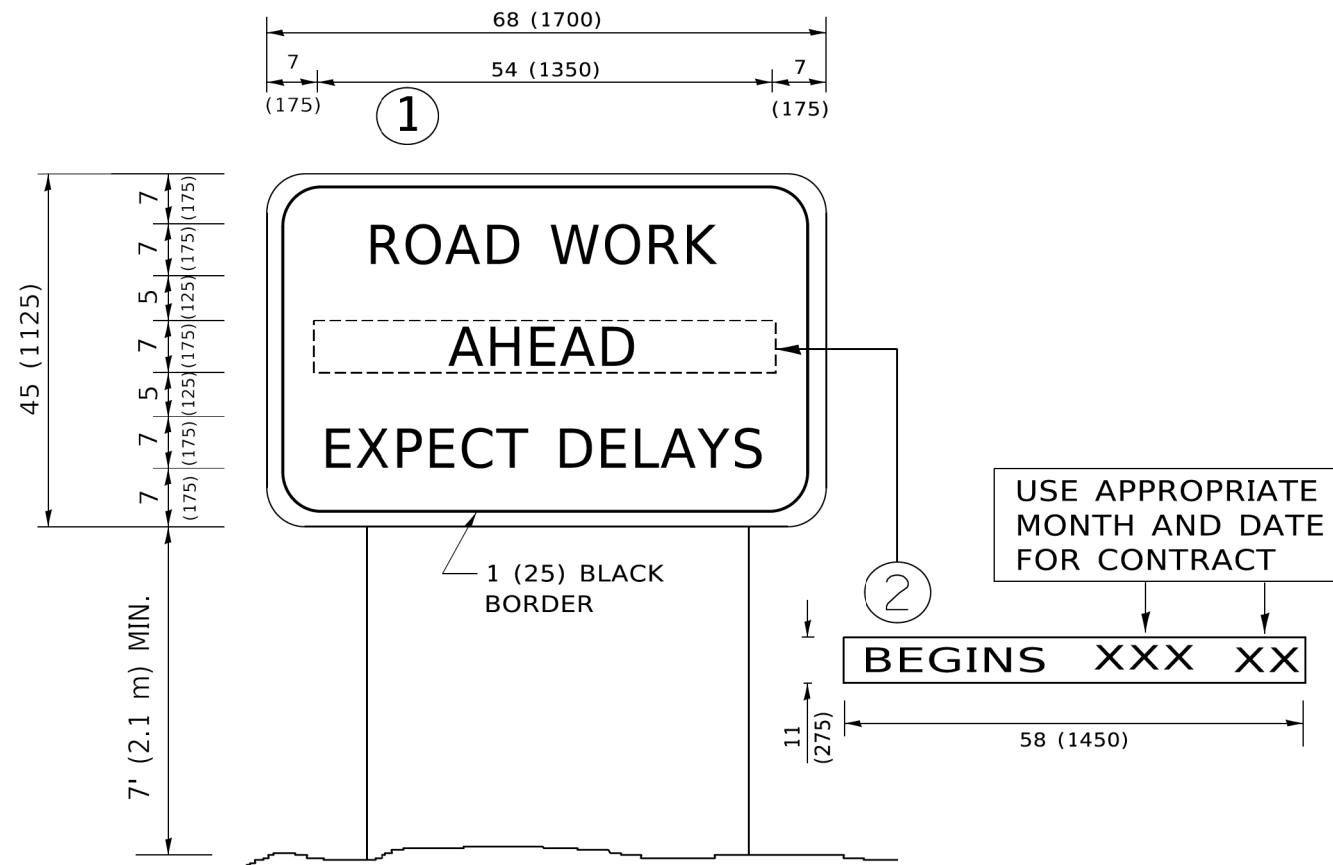
<table border="1"> <tr> <td>USER NAME = footemj</td> <td>DESIGNED - EVERS</td> <td>REVISED - C. JUCIUS 09-09-09</td> </tr> <tr> <td>PLCT SCALE = 50.0000 ' / in.</td> <td>CHECKED -</td> <td>REVISED - C. JUCIUS 07-01-13</td> </tr> <tr> <td>PLCT DATE = 3/4/2019</td> <td>DATE - 03-19-90</td> <td>REVISED - C. JUCIUS 12-21-15</td> </tr> <tr> <td></td> <td></td> <td>REVISED - C. JUCIUS 04-12-16</td> </tr> </table>	USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09	PLCT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 07-01-13	PLCT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15			REVISED - C. JUCIUS 04-12-16	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">DISTRICT ONE TYPICAL PAVEMENT MARKINGS</p>	<table border="1"> <tr> <td>F.A. RTE.</td> <td>SECTION</td> <td>COUNTY</td> <td>TOTAL SHEETS</td> <td>SHEET NO.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td align="center" colspan="5">TC-13</td> </tr> <tr> <td align="center" colspan="5">CONTRACT NO.</td> </tr> </table>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.						TC-13					CONTRACT NO.				
USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09																																	
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																															
TC-13																																			
CONTRACT NO.																																			
SCALE: NONE		SHEET 1 OF 2 SHEETS		STA. TO STA.																															

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2744	19-00284-00-CH	COOK	59	58																								
CONTRACT NO. 61H94																												
SCALE: NTS		SHEET 9 OF 10 SHEETS		STA. TO STA.																								

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NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97
PLCT SCALE = 50.0000 ' / in.	DRAWN -	REVISED - R. MIRS 12-11-97
PLCT DATE = 3/4/2019	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD
 INFORMATION SIGN

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TC-22			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

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

USER NAME = Kellen.Hinchey	DESIGNED -	REVISED -
PLCT SCALE = 2.0000 ' / in.	DRAWN -	REVISED -
PLCT DATE = 7/25/2022	CHECKED -	REVISED -
	DATE - 7/25/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RIDGE AVENUE TRAFFIC SIGNAL IMPROVEMENTS
 DISTRICT ONE DETAILS

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

SCALE: NTS SHEET 10 OF 10 SHEETS STA. TO STA.



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