

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2722	FAU 2722 23 SMART	COOK	97	1
ILLINOIS				CONTRACT NO. 62V90
* 97 + 2 = 99 TOTAL SHEETS				

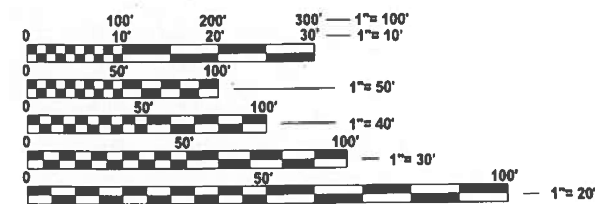
FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENTS ARE LOCATED IN
VILLAGE OF BROADVIEW
VILLAGE OF NORTH RIVERSIDE
VILLAGE OF MAYWOOD

DESIGN DESIGNATION
17TH AVE : MAJOR COLLECTOR

TRAFFIC DATA (17TH AVE)
ADT = 8,550 VPD (2023) NORTH OF ROOSEVELT ROAD
ADT = 10,500 VPD (2023) SOUTH OF ROOSEVELT ROAD

POSTED SPEED
30 MPH NORTH OF 16TH STREET/CENTRAL DRIVE
35 MPH SOUTH OF 16TH STREET/CENTRAL DRIVE



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

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

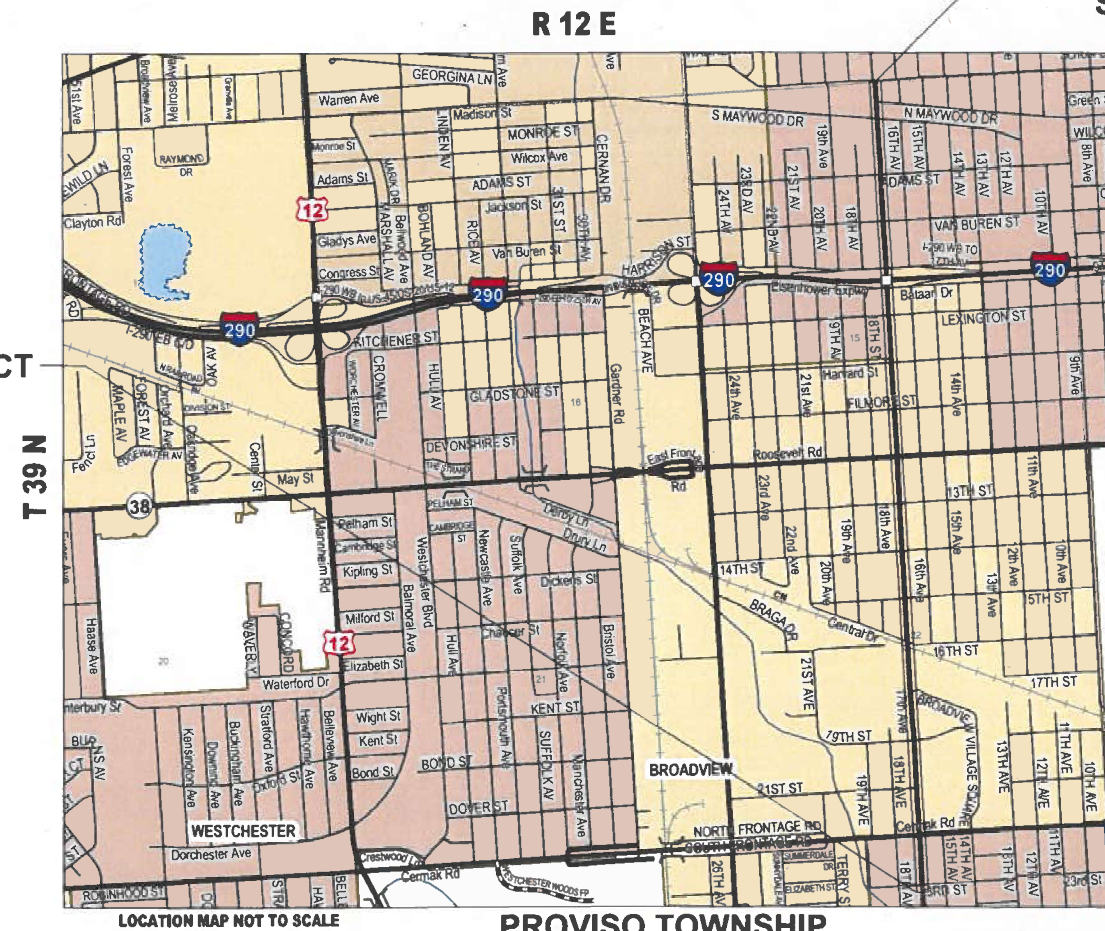
PROJECT ENGINEER: VESELIN VELICHKOV (847) 705-4432
PROJECT MANAGER: FAWAD AQEEL

CONTRACT NO. 62V90

PROPOSED
HIGHWAY PLANS
FAU ROUTE 2722: 17th AVENUE
23RD ST TO MADISON ST
SECTION: FAU 2722 23 SMART
PROJECT: STP-8AWS(744)
STANDARD OVERLAY, DRAINAGE & ADA IMPROVEMENTS
COOK COUNTY
C-91-076-24

BEGIN PROJECT
(17TH AVE)
STA 6+15.20

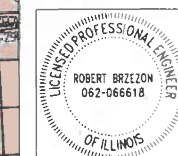
END PROJECT
(17TH AVE)
STA 118+73.05



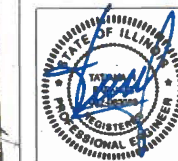
LOCATION MAP NOT TO SCALE

PROVISO TOWNSHIP

GROSS LENGTH = 11,276 FT. = 2.135 MILE
NET LENGTH = 9,932 FT. = 1.881 MILE



DATE: 10-10-2024
LICENSE EXPIRES 11-30-2025
ROBERT BRZEZION
MICHAEL BAKER INTERNATIONAL
SHEETS 1 TO 25, 39 TO 97



DATE: 10-10-2024
LICENSE EXPIRES 11-30-2025
TATIANA PAPAKOS
MICHAEL BAKER INTERNATIONAL
SHEETS 26 TO 38

Michael Baker

INTERNATIONAL
200 W Adams Street, Suite 1800, Chicago, IL 60606
Phone: (312) 707-8770 · MBAKERINTL.COM



LOCATION OF SECTION INDICATED THUS: —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Oct 15 2024
REGIONAL ENGINEER
December 6, 2024
ENGINEER OF DESIGN AND ENVIRONMENT
December 6, 2024
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

REVISED SHEET 12/30/2024

MODEL - Summary of Quantities [Sheet]
FILE NAME: p:\r\m\p-us-pw-pw-03\Documents\Chicago_IL\01_Projects\DOT_Var_DEsens_PTB208_005\W04 - 199078\3.0 Deliverables\3.3 CADD Data\Sheets\0162\Y90-sht-SQ005.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				80% FED 20% STATE	TRAFFIC SIGNALS 80% FED/20% STATE	100% STATE			
				ROADWAY 0005	SAFETY 0021	ROADWAY 0005			
				URBAN	URBAN	URBAN			
* 78100100	RAISED REFLECTIVE PAVEMENTMARKER	EACH	464	464					
78300200	RAISED REFLECTIVE PAVEMENTMARKER REMOVAL	EACH	464	464					
* 81028200	UNDERGROUND CONDUIT, GALVANIZEDSTEEL, 2" DIA.	FOOT	70		70				
* 81028240	UNDERGROUND CONDUIT, GALVANIZEDSTEEL, 4" DIA.	FOOT	212		212				
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	5		5				
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,975		1,975				
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	103		103				
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	856		856				
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	504		504				
* 87900200	DRILL EXISTING HANDHOLE	EACH	13		13				
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8		8				
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2		2				
* 88600100	DETECTOR LOOP, TYPE I	FOOT	1,136		1,136				
* 89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	5		5				
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,805		2,805				
* 89502200	MODIFY EXISTING CONTROLLER	EACH	1		1				
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	5		5				
* 89502376	REBUILD EXISTING HANDHOLE	EACH	8		8				
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	31			31			

* SPECIALTY ITEM

 REVISED SHEET 12/30/2024

Michael Baker

INTERNATIONAL
200 West Adams St. Suite 1800, Chicago, IL 60606
Phone: (312) 707-8770 · MBAKERINTL.COM

USER NAME - Jaime.Rivera

DESIGNED - ZJT

REVISED -

DRAWN - CEL

REVISED -

PLOT SCALE - 0.16666633" / in.

CHECKED - WJT

REVISED -

PLOT DATE - 10/16/2024

DATE - 06/15/2024

REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
17TH AVE (23RD ST TO MADISON ST)**

SCALE: NONE

SHEET 5

OF 7

SHEETS

STA.

TO STA.

F.A.U.
RTE.

SECTION

COUNTY

TOTAL
SHEETS

SHEET
NO.

2722

FAU 2722 23 SMART

COOK

97

7

CONTRACT NO. 62V90

ILLINOIS FED. AID PROJECT

REV-SEP

MODEL - Summary of Quantities [Sheet]
FILE NAME: pw:/mb-us-pw-bentley.com:mb-us-pw-03/Documents/Chicago_IL/01_Projects/D1_DOT_Var_DEsenvs_PTB208_005/W04 - 199078/3.0 Deliverables/3.3 CADD Data/Sheets/D162V90-sht-SQ006.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				80% FED 20% STATE	TRAFFIC SIGNALS 80% FED/20% STATE	100% STATE			
				ROADWAY 0005	SAFETY 0021	ROADWAY 0005			
				URBAN	URBAN	URBAN			
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	50	50					
* Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	5		5				
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1					
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1					
X0326801	COMBINED SEWERS TO BE CLEANED	FOOT	7,019			7,019			
* X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED EACH 2	EACH	2		2				
X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	4		4				
* X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	3		3				
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	8,376	8,376					
X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	50	50					
X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	318	318					
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	864	864					
X4406824	PORTLAND CEMENT CONCRETE SURFACE REMOVAL 3"	SQ YD	55	55					
X5537700	STORM SEWERS TO BE CLEANED 10"	FOOT	1,152			1,152			
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	903			903			
X5538000	STORM SEWERS TO BE CLEANED 18"	FOOT	1,191			1,191			

* SPECIALTY ITEM

 REVISED SHEET 12/30/2024

Michael Baker

INTERNATIONAL
200 West Adams Street, Suite 1800, Chicago, IL 60606
Phone: (312) 707-8770 · MBAKERINTL.COM

USER NAME = Jaime.Rivera
PLOT SCALE = 0.16666633" / in.
PLOT DATE = 10/16/2024

DESIGNED - ZJT
DRAWN - CEL
CHECKED - WJT
DATE - 06/15/2024

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
17TH AVE (23RD ST TO MADISON ST)**

SCALE: NONE SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2722	FAU 2722 23 SMART	COOK	97	8
CONTRACT NO. 62V90				
ILLINOIS FED. AID PROJECT				

MODEL: Summary of Quantities [Sheet]
FILE NAME: [pw://mb-us-pw.bentley.com](http://mb-us-pw.bentley.com)

[illegible]

* SPECIALTY ITEM

Michael Baker
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Phone: (312) 707-8770 · MBAKERINTL.COM

USER NAME = Jaime.Rivera	DESIGNED - ZJT
	DRAWN - CEL
PLOT SCALE = 0.16666633' / in.	CHECKED - WJT
PLOT DATE = 10/16/2024	DATE - 06/15/2024

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
17TH AVE (23RD ST TO MADISON ST)

SCALE: NONE	SHEET 7	OF 7	SHEETS	STA.	TO STA.
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1

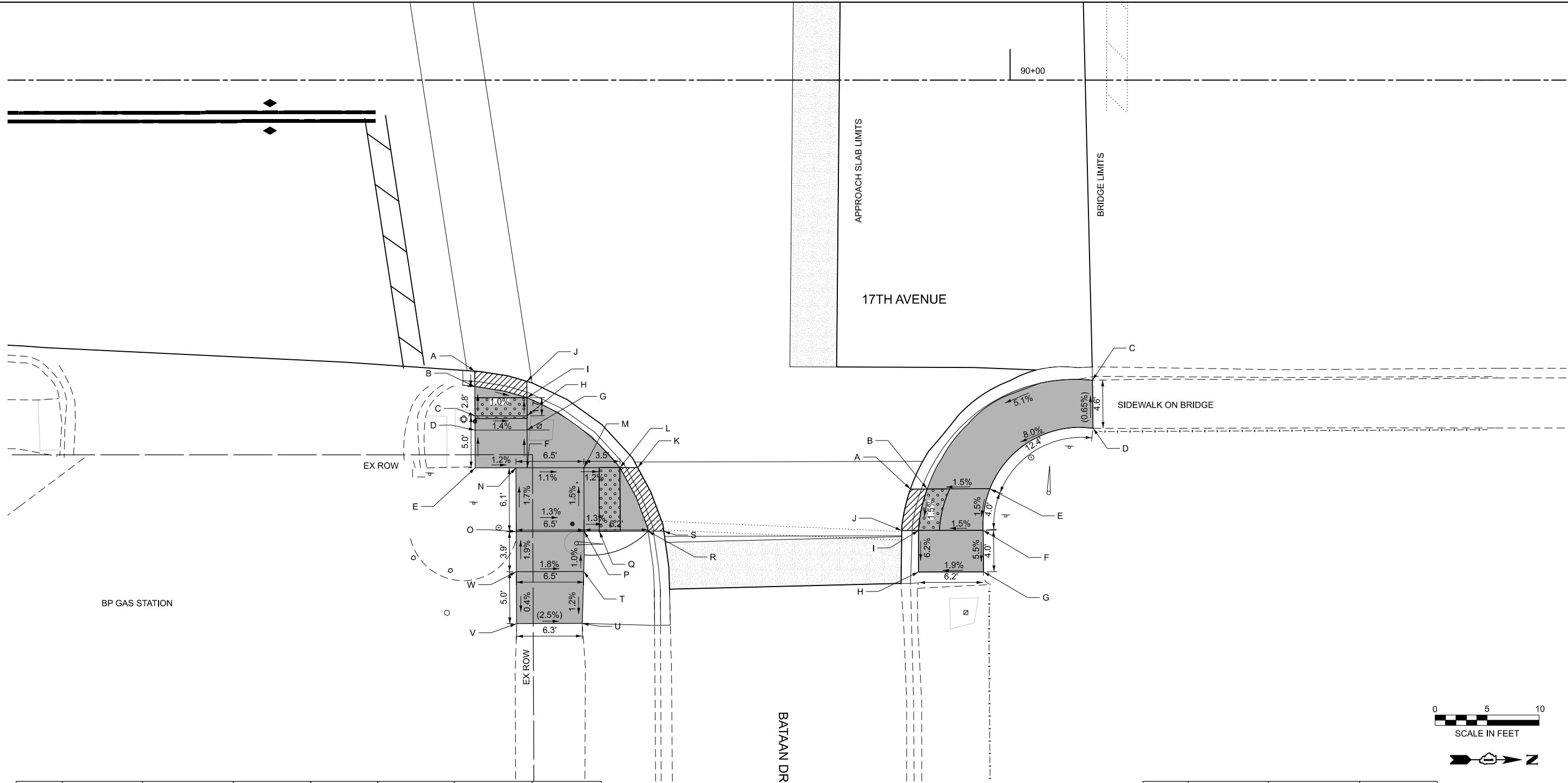
REVISED SHEET 12/30/2024

Ø 0042

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2722	FAU 2722 23 SMART	COOK	97	9
CONTRACT NO. 62V90				
		ILLINOIS	FED. AID PROJECT	

REV-SEP

MODEL: Sheet - ADA - 19 SE NE Batan
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	NORTHING	EASTING	ELEVATION		NORTHING	EASTING	ELEVATION
A	1895767.94	1115020.34	628.77	M	1895778.77	1115029.25	628.79
B	1895768.00	1115021.84	628.80	N	1895772.23	1115029.49	628.86
C	1895768.12	1115024.65	628.85	O	1895757.72	1114992.67	628.97
D	1895768.17	1115026.02	(628.87)	P	1895779.02	1115035.36	628.88
E	1895768.32	1115029.64	(628.91)	Q	1895780.47	1115035.31	628.86
F	1895773.32	1115029.45	628.85	R	1895785.17	1115035.13	628.80
G	1895773.17	1115025.82	628.80	S	1895756.69	1115035.07	628.77
H	1895773.11	1115024.46	628.78	T	1895779.12	1115039.24	628.92
I	1895773.04	1115022.71	628.75	U	1895779.16	1115044.22	(628.86)
J	1895772.98	1115021.14	628.71	V	1895772.84	1115044.48	(629.02)
K	1895783.95	1115029.05	628.71	W	1895772.64	1115039.48	629.04
L	1895782.24	1115029.11	628.75				

LEGEND

XX.XX'

EXISTING LENGTH

()

EXISTING ELEVATION / SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



DEPRESSED CURB AND GUTTER

	NORTHING	EASTING	ELEVATION
A	1895810.24	1115030.15	629.67
B	1895811.86	1115030.09	629.70
C	1895827.40	1115019.49	(630.75)
D	1895827.59	1115023.67	(630.78)
E	1895817.89	1115029.85	629.79
F	1895817.38	1115033.88	629.73
G	1895817.57	1115037.87	(629.51)
H	1895811.31	1115038.11	(629.39)
I	1895811.17	1115034.12	629.64
J	1895809.56	1115034.18	629.61



1 REVISED ENTIRE SHEET 12/23/2024

Michael Baker

INTERNATIONAL
200 West Adams Street, Suite 1800, Chicago, IL 60606
Phone: (312) 707-8770 • MBAKERINTL.COM

USER NAME = Connor.Liss

DESIGNED - CEL

REVISED -

PLOT SCALE = 0.16666633" / In.

DRAWN - MFK

REVISED -

PLOT DATE = 12/17/2024

CHECKED - WJT

REVISED -

DATE - 06/15/2024

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS
17TH AVE (23RD ST TO MADISON ST)

SCALE: 1"=5'

SHEET 11

OF 19

SHEETS

STA.

TO STA.

F.A.U.

RTE.

SECTION

COUNTY

TOTAL

SHEETS

SHEET

NO.

2722 FAU 2722 23 SMART

COOK

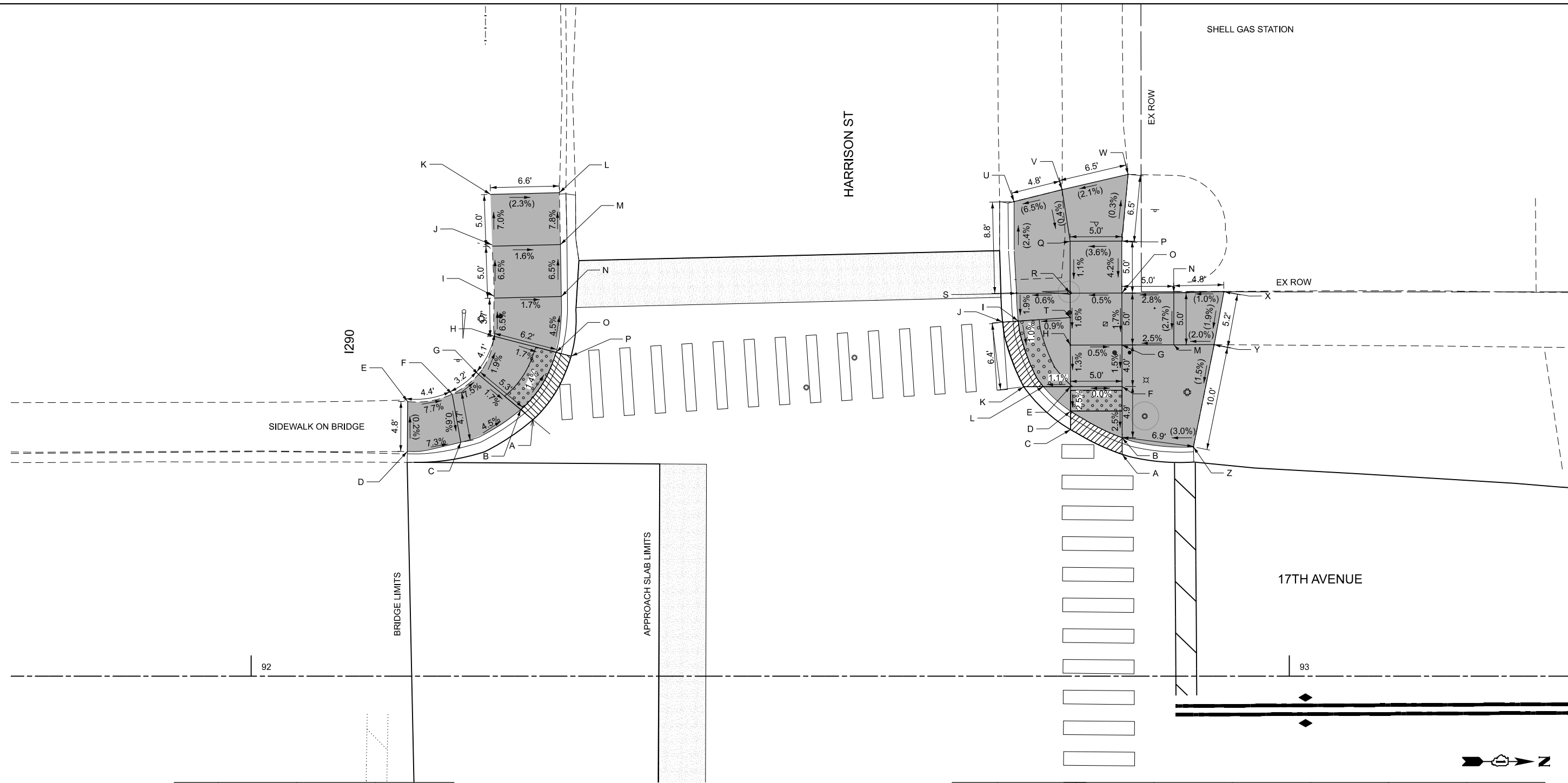
97

49

CONTRACT NO. 62V90

ILLINOIS FED. AID PROJECT

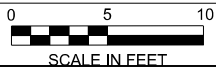
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	NORTHING	EASTING	ELEVATION
A	1896044.5	1114957.53	629.87
B	1896043.29	1114956.6	629.90
C	1896037.64	1114959.95	630.20
D	1896032.52	1114961.02	(630.58)
E	1896032.37	1114956.21	(630.57)
F	1896036.63	1114955.34	630.23
G	1896039.09	1114953.35	629.99
H	1896040.44	1114949.62	629.92
I	1896040.34	1114945.96	629.67
J	1896039.98	1114940.97	629.35
K	1896039.63	1114935.98	(629.00)
L	1896046.25	1114935.59	(628.85)
M	1896046.54	1114940.58	629.24
N	1896046.81	1114945.57	629.57
O	1896046.49	1114950.95	629.81
P	1896047.96	1114951.27	629.78

LEGEND

- XX.XX' EXISTING LENGTH
- () EXISTING ELEVATION / SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- DEPRESSED CURB AND GUTTER



	NORTHING	EASTING	ELEVATION		NORTHING	EASTING	ELEVATION
A	1896101.35	1114958.80	628.50	N	1896105.74	1114943.07	(628.94)
B	1896101.29	1114957.20	628.53	O	1896100.75	1114943.27	628.80
C	1896096.29	1114956.59	628.55	P	1896100.55	1114938.27	(629.01)
D	1896096.22	1114954.82	628.58	Q	1896095.59	1114938.46	(628.83)
E	1896096.13	1114952.45	628.66	R	1896095.78	1114943.46	628.78
F	1896101.10	1114952.26	628.66	S	1896090.60	1114943.66	628.75
G	1896100.94	1114948.26	628.72	T	1896095.87	1114945.81	628.74
H	1896095.98	1114948.46	628.70	U	1896090.05	1114934.84	(628.54)
I	1896090.60	1114943.66	628.70	V	1896094.63	1114933.53	(628.85)
J	1896089.38	1114946.46	628.67	W	1896100.93	1114931.82	(628.99)
K	1896091.63	1114952.63	628.60	X	1896110.58	1114942.79	(628.99)
L	1896093.52	1114952.56	628.63	Y	1896109.81	1114947.92	(628.89)
M	1896105.94	1114948.07	(628.81)	Z	1896108.18	1114957.83	(628.74)

Michael Baker
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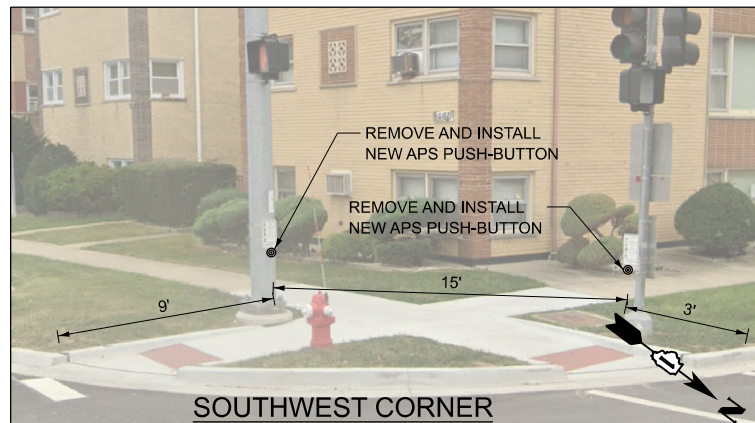
USER NAME = Connor.Liss	DESIGNED - CEL	REVISED -
	DRAWN - MFK	REVISED -
PLOT SCALE = 0.16666633" / In.	CHECKED - WJT	REVISED -
PLOT DATE = 12/17/2024	DATE - 06/15/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS
17TH AVE (23RD ST TO MADISON ST)

SCALE: 1"=5' SHEET 12 OF 19 SHEETS STA. TO STA.

1 REVISED ENTIRE SHEET 12/23/2024				
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2722	FAU 2722 23 SMART	COOK	97	50
		CONTRACT NO. 62V90		
ILLINOIS		FED. AID PROJECT		



SOUTHWEST CORNER



NORTHWEST CORNER

REMOVAL NOTES:

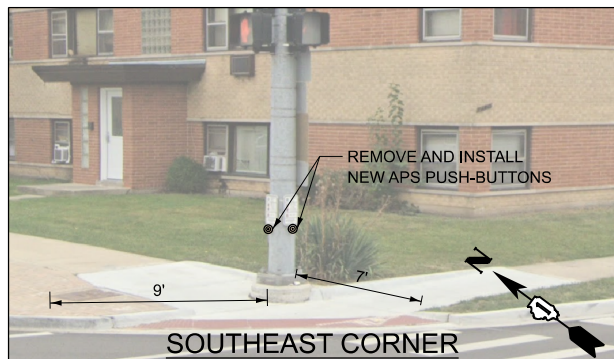
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 8 EACH PEDESTRIAN PUSH-BUTTON
1 EACH SERVICE INSTALLATION, POLE MOUNT

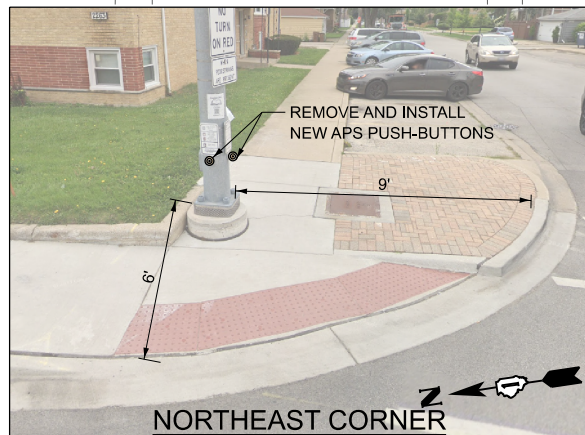
MODEL: 23rd St (Sheet)
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NOTE:

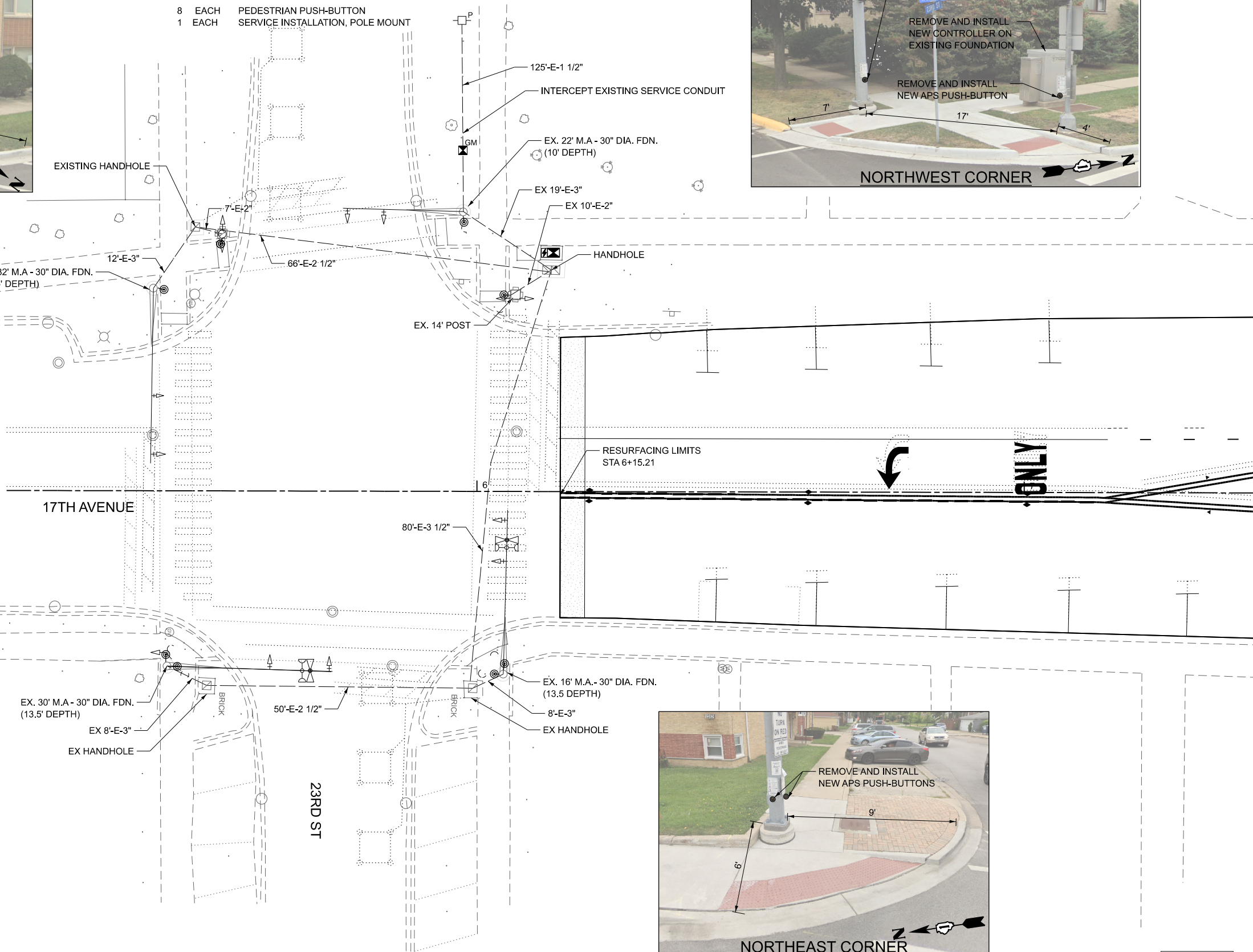
1. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL ENGINEER.
2. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.
3. ALL PUSH BUTTONS SHALL BE APS.
4. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.



SOUTHEAST CORNER



NORTHEAST CORNER



Michael Baker

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Phone: (312) 707-8770 • MBAKERINTL.COM

USER NAME = Zach.Tanner
PLOT SCALE = 0.16666633" / In.
PLOT DATE = 12/23/2024

DESIGNED - WJT
DRAWN - MFK
CHECKED - ZJT
DATE - 06/15/2024

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
17TH AVE AT 23RD ST

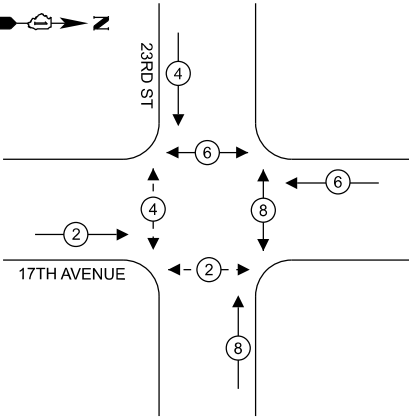
SCALE: 1"=10' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2722	FAU 2722 23 SMART	COOK	97	72
CONTRACT NO. 62V90				
ILLINOIS FED. AID PROJECT				

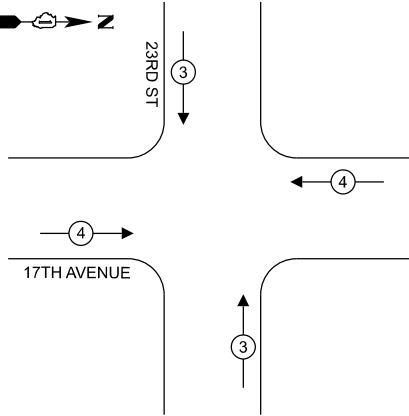
TS 22121
ECON 27

1 REVISED ENTIRE SHEET 12/23/2024

EXISTING CONTROLLER SEQUENCE

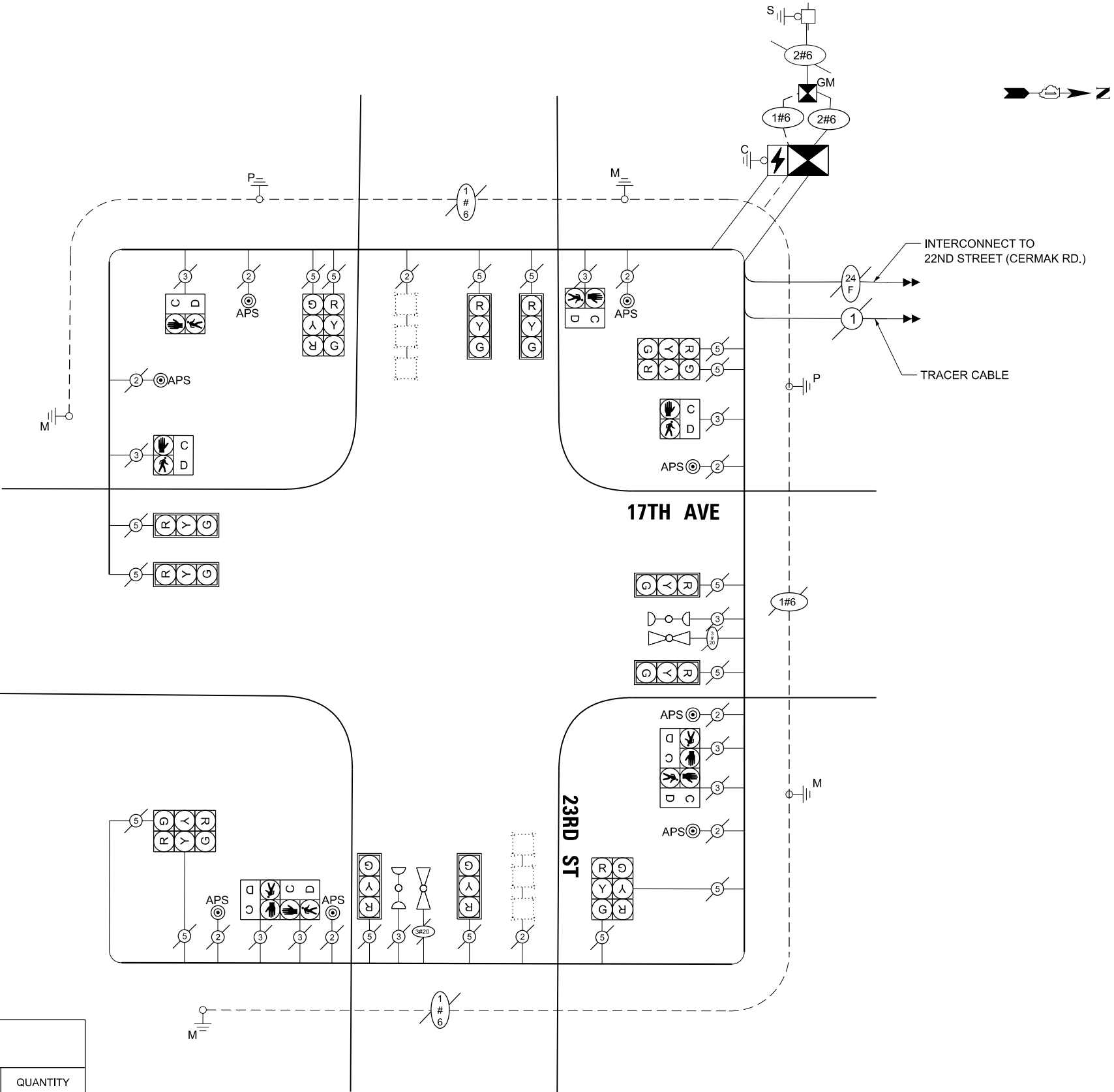


EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE



LEGEND:

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



CABLE PLAN
(NOT TO SCALE)

I. D. O. T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	16	11	176
4-SECTION	-	14	-
5-SECTION	-	13	-
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIGNING			471
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1,076

SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FEET	125
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	66
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	75
CONCRETE FOUNDATION, TYPE A	FOOT	4
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	1

Michael Baker

INTERNATIONAL
200 West Adams Street, Suite 1800, Chicago, IL 60606
Phone: (312) 707-8770 • MBAKERINTL.COM

USER NAME = Zach.Tanner
DESIGNED - ZJT
DRAWN - MFK
PLOT SCALE = 0.16666633" / In.
CHECKED - WJT
PLOT DATE = 12/23/2024

DESIGNED - ZJT
DRAWN - MFK
CHECKED - WJT
DATE - 06/15/2024

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

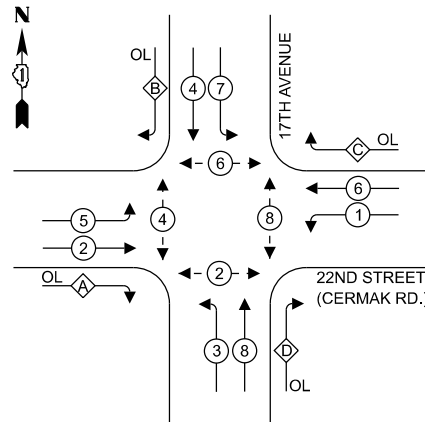
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
17TH AVE AT 23RD ST

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

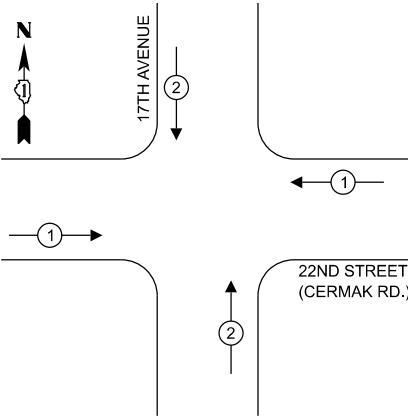
1 REVISED ENTIRE SHEET 12/23/2024

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2722	FAU 2722 23 SMART	COOK	97	73
CONTRACT NO. 62V90				
ILLINOIS FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



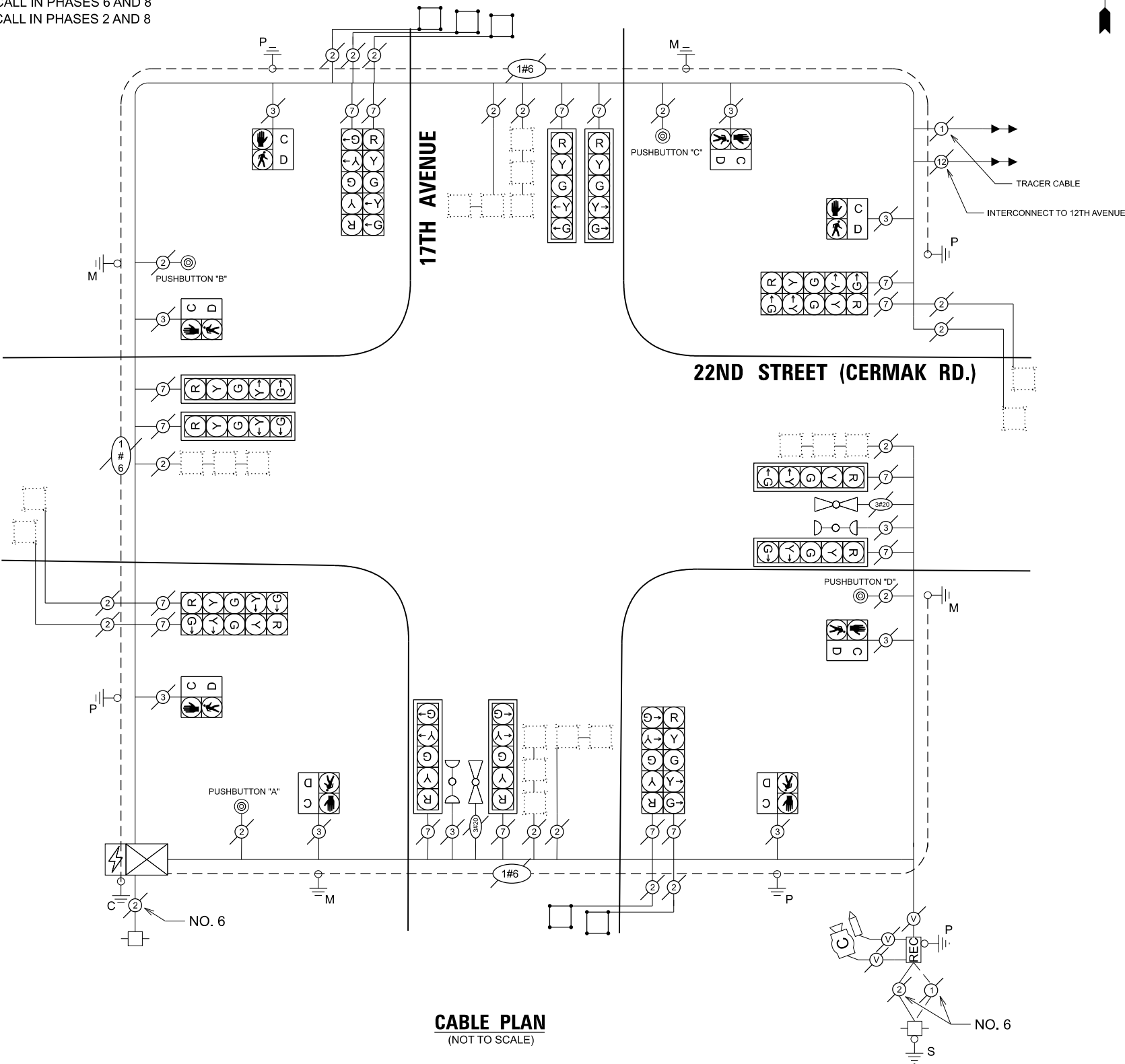
EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE



LEGEND:

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

NOTE:
PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 8



CABLE PLAN
(NOT TO SCALE)

I. D. O. T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	-	11	-
4-SECTION	-	14	-
5-SECTION	16	13	208
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIGNING			503
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1,108

ENERGY COSTS TO:
VILLAGE OF NORTH RIVERSIDE
2401 S DES. PLAINES AVE.
NORTH RIVERSIDE, IL 60546

ENERGY SUPPLY: CONTACT: ERICKA IRBY
PHONE: 779-231-0633
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: -

SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
DETECTOR LOOP REPLACEMENT	FOOT	197

DESIGNED - ZJT	REVISED -
DRAWN - MFK	REVISED -
CHECKED - WJT	REVISED -
DATE - 06/15/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
17TH AVE AT CERMAK RD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2722	FAU 2722 23 SMART	COOK	97	75

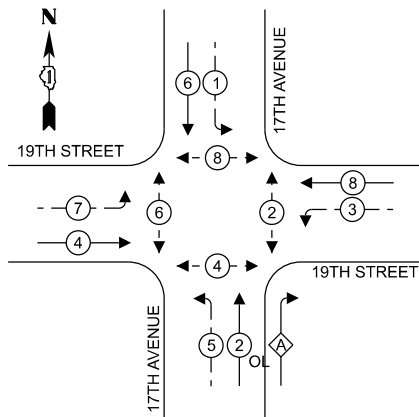
CONTRACT NO. 62V90

1 REVISED ENTIRE SHEET 12/23/2024

ILLINOIS FED. AID PROJECT

MODEL: Unnamed Plan - Plan 6
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EXISTING CONTROLLER SEQUENCE

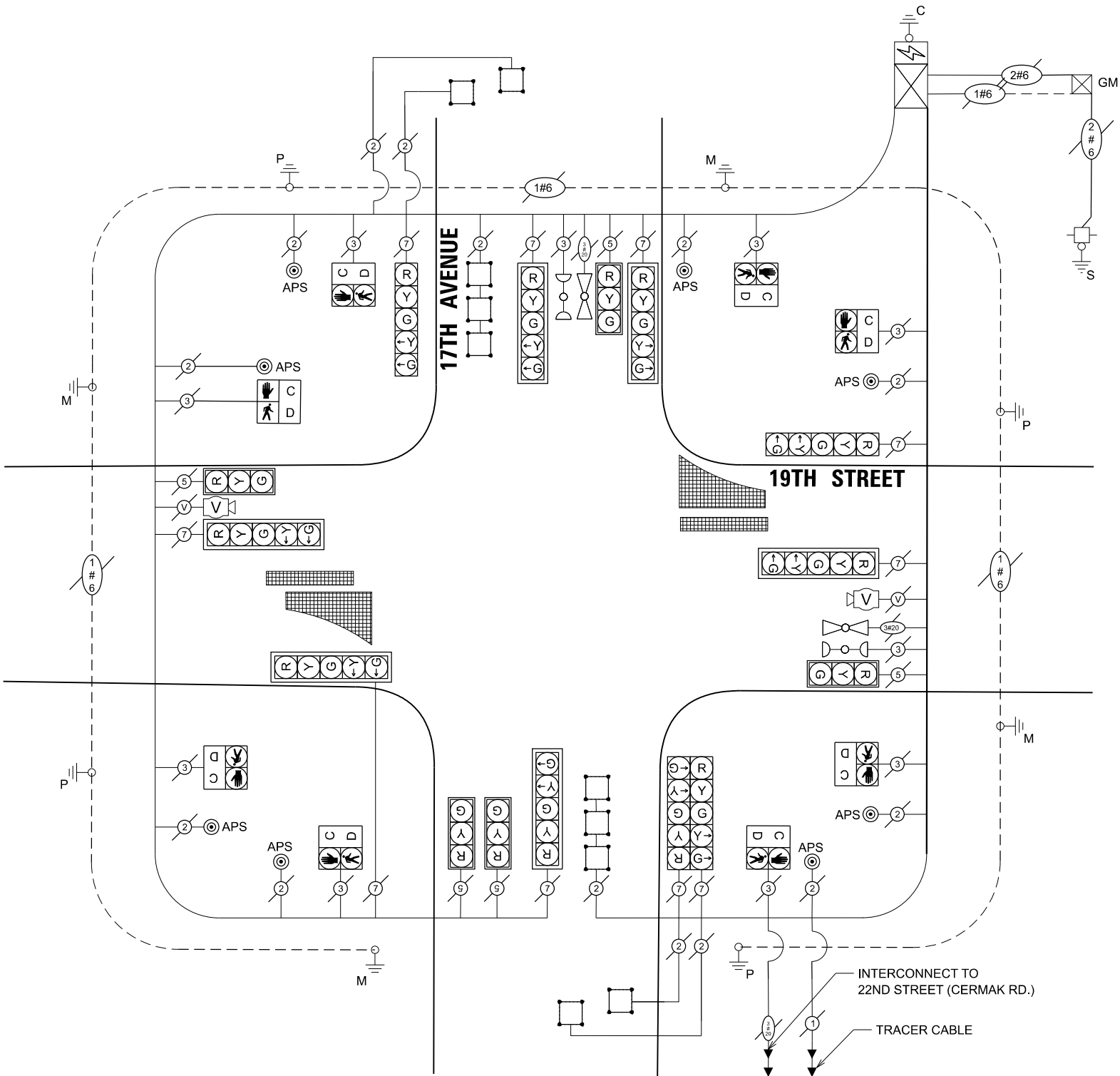


LEGEND:

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

RIGHT TURN OVERLAP
PHASE DESIGNATION:

OVERLAP LETTER A = PERMISSIVE PHASE 2 + PROTECTED PHASE 3



CABLE PLAN
(NOT TO SCALE)

INTERCONNECT TO
22ND STREET (CERMAK RD.)
TRACER CABLE

I. D. O. T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	5	11	55
4-SECTION		14	
5-SECTION	10	13	130
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIGNING			520
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1,125

ENERGY COSTS TO:
VILLAGE OF BROADVIEW
2350 SOUTH 25TH AVENUE
BROADVIEW, ILLINOIS 60155

ENERGY SUPPLY: CONTACT: ERICKA IRBY
PHONE: 779-231-0633
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: -

SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
DETECTOR LOOP, TYPE I	FOOT	318
MAINTENACE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

Michael Baker
INTERNATIONAL

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Phone: (312) 707-8770 • MBAKERINTL.COM

USER NAME = Zach.Tanner
PLOT SCALE = 0.16666633" / In.
PLOT DATE = 12/23/2024

DESIGNED - ZJT
DRAWN - MFK
CHECKED - WJT
DATE - 06/15/2024

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND SCHEDULE OF QUANTITIES
17TH AVE AT 19TH ST

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

1 REVISED ENTIRE SHEET 12/23/2024

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2722	FAU 2722 23 SMART	COOK	97	77
CONTRACT NO. 62V90				
ILLINOIS FED. AID PROJECT				



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
2. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL ENGINEER.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.
4. THIS PLAN IS FOR THE REMOVAL OF PUSH-BUTTONS, INSTALLATION OF APS PUSH-BUTTONS AND REPLACEMENT OF LOOP DETECTORS WITHIN THE RESURFACING LIMITS AS SHOWN.
5. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS).
6. ALL PUSH BUTTONS SHALL BE APS.
7. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
8. ALL PROPOSED TRAFFIC SIGNAL SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
9. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE NEXT TO TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
10. CONTRACTOR SHALL REROUTE 2" UNDERGROUND CONDUIT AROUND THE EXISTING COMED POLE LOCATED AT THE SOUTHEAST CORNER.

TS 4535

1 REVISED ENTIRE SHEET 12/23/2024

MODEL: 14th St - TS-Plan [Sheet]
FILE NAME: pw://mb-us-pw-03/Documents/Chicago_IL/01 Projects/D1 IDOT Var DEServs PTB208 005/W04 - 190078/3.0 Deliverables/3.3 CADD Data/Sheets/D162/V90-Sht-TS-14th.dgn

Michael Baker
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USER NAME	= Zach.Tanner
PLOT SCALE	= 0.16666633 ' / I
PLOT DATE	= 12/23/2024

DESIGNED	-	ZJT
DRAWN	-	MFK
CHECKED	-	WJT
DATE	-	6/15/2024

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN

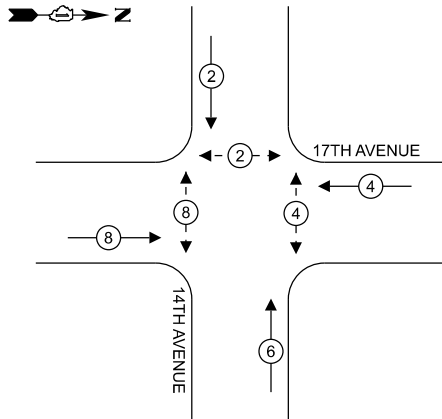
17TH AVE AT 14TH ST

SCALE: 1"=10'	SHEET 1	OF 2	SHEETS	STA.	TO STA.
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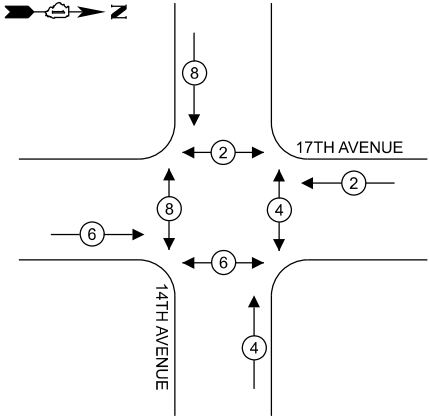
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2722	FAU 2722 23 SMART	COOK	97	78.
		CONTRACT NO. 62V90		
ILLINOIS		FED. AID PROJECT		

MODEL: Unnamed Plan - Plan 5
FILE NAME: p:\c\mb-us-csw-bentley.com\mb-us-csw-pw-03\Documents\Chicago_IL\01_Projects\DOT1_IDOT_Var_DEsigns_PTB208_005\W04-199078\3.0 Deliverables\3.3 CADD Data\Sheets\0162\90-Shh-Pr-CablePlan-14th.dgn

EXISTING CONTROLLER SEQUENCE



PROPOSED CONTROLLER SEQUENCE



LEGEND:

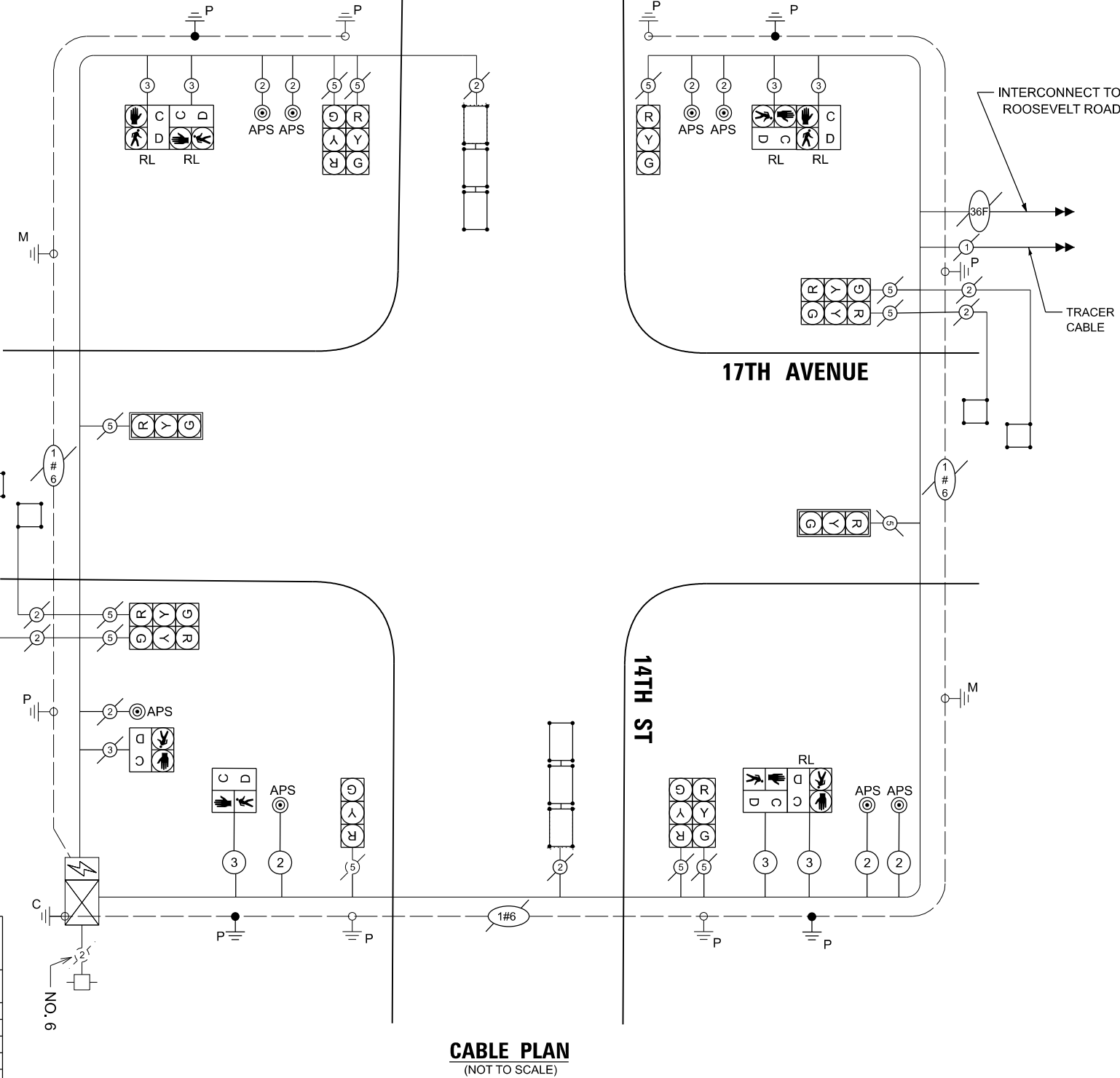
- ← * → PROTECTED PHASE
- ← * OL → OVERLAP
- ← * → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE

I. D. O. T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	12	11	132
4-SECTION		14	
5-SECTION	-	13	-
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL CONTROLLER	8	15	120
MASTER CONTROLLER	1	150	150
UPS	-	100	-
DETECTION RADAR OR VIDEO	1	25	25
BLANK-OUT SIGN	-	20	-
NETWORK SWITCH II OR III	-	25	-
CELLULAR MODEM	-	35	-
	-	15	-
TOTAL UPS SIGNING		427	
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING		1,032	
ENERGY COSTS TO: VILLAGE OF BROADVIEW 2350 SOUTH 25TH AVENUE BROADVIEW, ILLINOIS 60155			
ENERGY SUPPLY: CONTACT: ERICKA IRBY PHONE: 779-231-0633 COMPANY: COMMONWEALTH EDISON ACCOUNT NUMBER: -			

SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16
DETECTOR LOOP, TYPE I	FOOT	294
DRILL EXISTING HANDHOLE	EACH	10
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	795
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	856
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
REBUILD EXISTING HANDHOLE	EACH	3
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	5
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1439
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	28
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	212
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	345.5



CABLE PLAN
(NOT TO SCALE)

Michael Baker
INTERNATIONAL
200 West Adams Street, Suite 1800, Chicago, IL 60606
Phone: (312) 707-8770 • MBAKERINTL.COM

USER NAME = Zach.Tanner
PLOT SCALE = 0.16666633" / In.
PLOT DATE = 12/23/2024

DESIGNED - ZJT
DRAWN - MFK
CHECKED - WJT
DATE - 06/15/2024

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND SCHEDULE OF QUANTITIES
17TH AVE AT 14TH ST

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

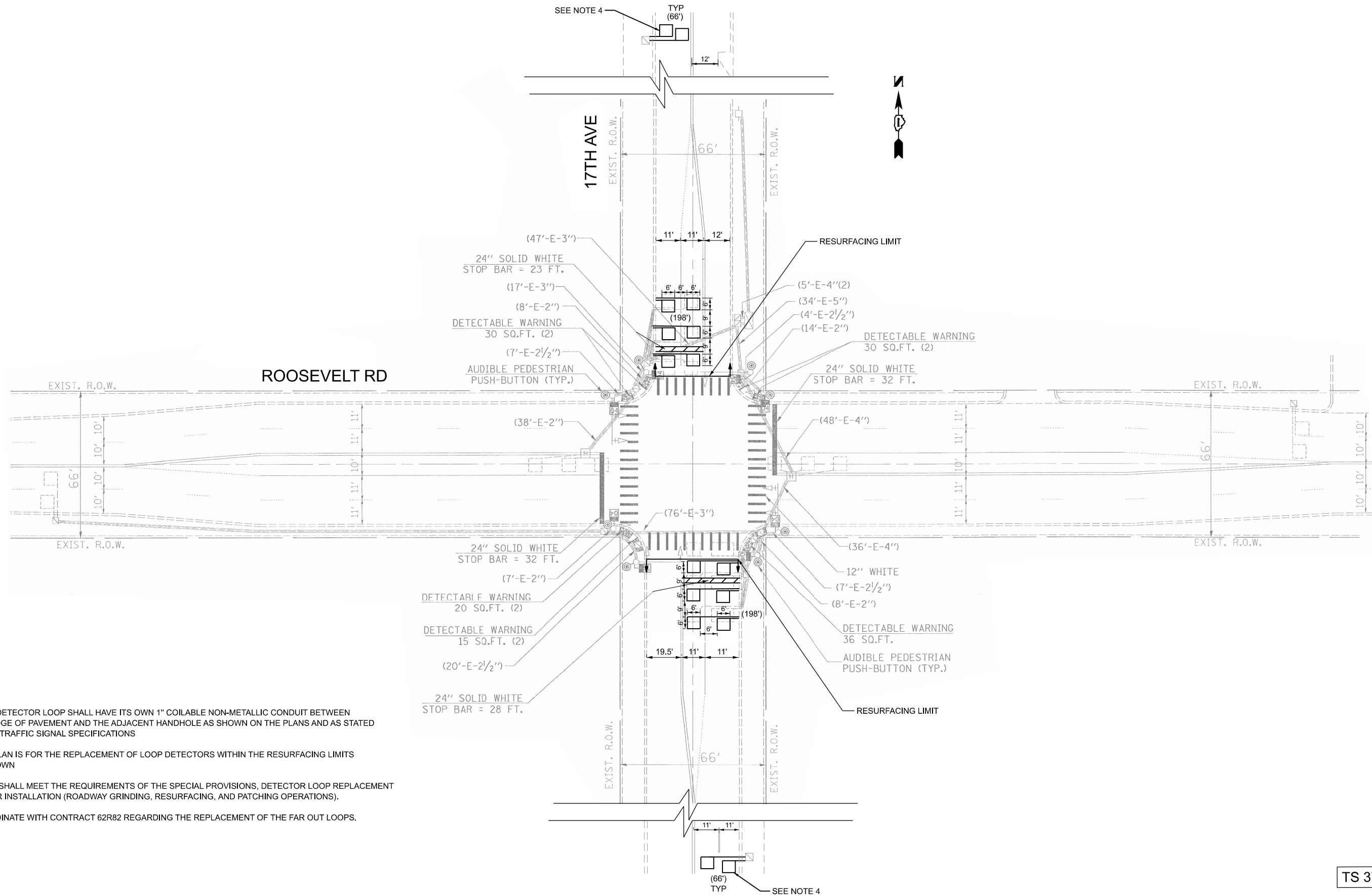
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2722	FAU 2722 23 SMART	COOK	97	79
CONTRACT NO. 62V90				
ILLINOIS FED. AID PROJECT				

1 REVISED ENTIRE SHEET 12/23/2024

MODEL: Roosevelt [Sheet]
FILE NAME: c:\pwr\mb-us-pw-03\Documents\Chicago_IL\01_Projects\01_IDOT_Var_DEsens_PTB208_005\W04 - 199078\3.0 Deliverables\3.3 CADD Data\Sheets\0162V90-Sht-1S-Roosevelt.dgn

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
2. THIS PLAN IS FOR THE REPLACEMENT OF LOOP DETECTORS WITHIN THE RESURFACING LIMITS AS SHOWN
3. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).
4. COORDINATE WITH CONTRACT 62R82 REGARDING THE REPLACEMENT OF THE FAR OUT LOOPS.



TS 3705

1 REVISED ENTIRE SHEET 12/23/2024

Michael Baker

INTERNATIONAL
200 West Adams Street, Suite 1800, Chicago, IL 60606
Phone: (312) 707-8770 • MBAKERINTL.COM

USER NAME = Robert.Brzezona	DESIGNED - ZJT	REVISED - 12/16/2024
	DRAWN - ZJT	REVISED - 12/16/2024
PLOT SCALE = \$SCALE\$	CHECKED - CEL	REVISED - 12/16/2024
PLOT DATE = 12/23/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT PLAN
17TH AVE AT ROOSEVELT RD

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2722	FAU 2722 23 SMART	COOK	97	79A
CONTRACT NO. 62V90				
ILLINOIS FED. AID PROJECT				

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	4	11	44
4-SECTION	-	14	-
5-SECTION	8	13	104
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			478
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1,083

ENERGY SUPPLY: CONTACT: ERICKA IRBY
PHONE: 779-231-0633
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: -

USER NAME	= Zach.Tanner
PLOT SCALE	= 0.16666633 ' / In.
PLOT DATE	= 12/23/2024

 PROTECTED PHASE
 OL OVERLAP
 PROTECTED/PERMITTED PHASE
 PEDESTRIAN PHASE

DESCRIPTION	UNIT	QUANTITY
DETECTOR LOOP REPLACEMENT	FOOT	528

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE	SHEET 2	OF 2	SHEETS	STA.	TO STA.
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1 REVISED ENTIRE SHEET 12/23/2024

ILLINOIS	FED. AID PROJECT
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SOUTHWEST CORNER

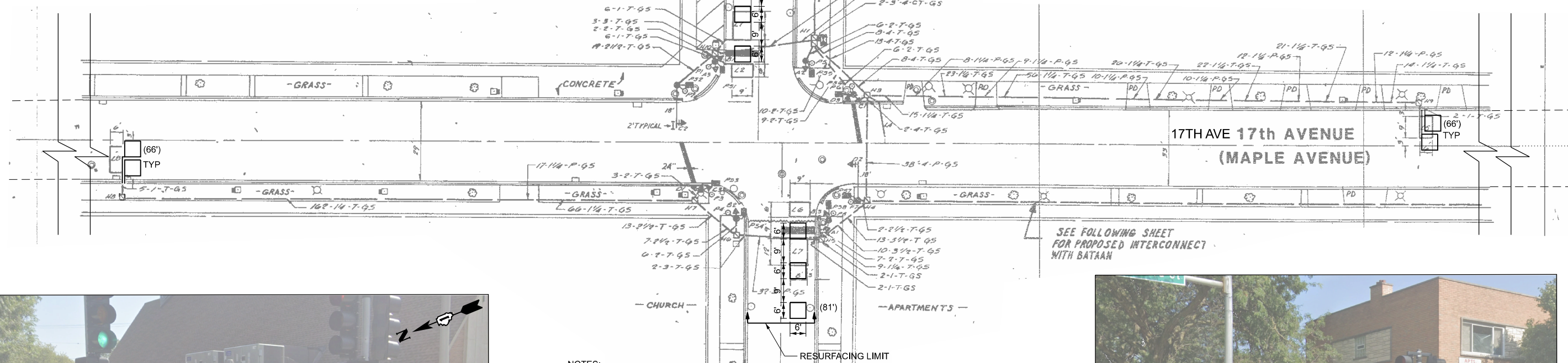
REMOVAL NOTES:

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

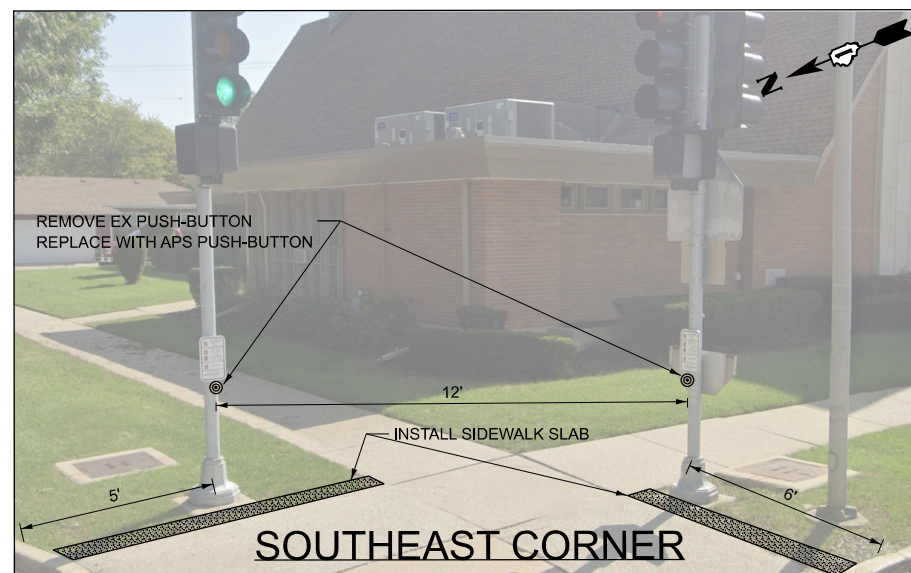
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	SERVICE INSTALLATION, POLE MOUNTED



NORTHWEST CORNER



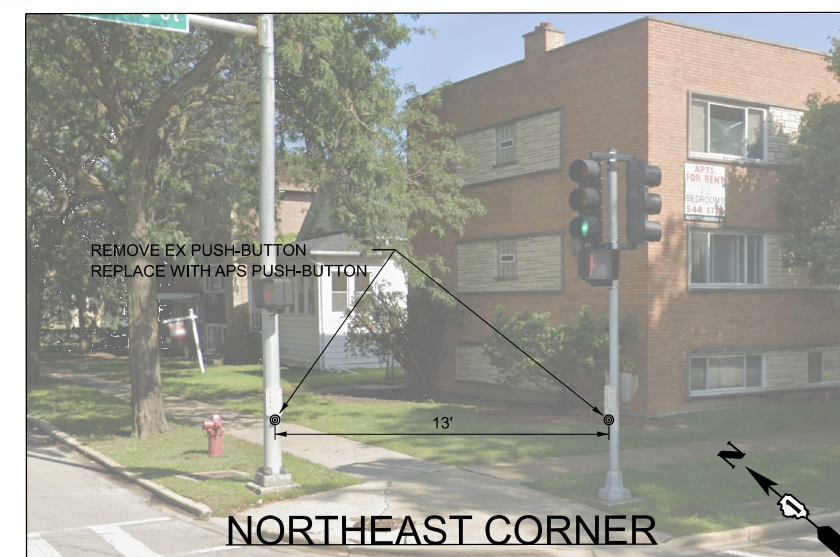
SEE FOLLOWING SHEET
FOR PROPOSED INTERCONNECT
WITH BAT14N



SOUTHEAST CORNER

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.
2. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL ENGINEER.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.
4. THIS PLAN IS FOR THE REMOVAL OF PUSH-BUTTONS, INSTALLATION OF APS PUSH-BUTTONS AND REPLACEMENT OF LOOP DETECTORS WITHIN THE RESURFACING LIMITS AS SHOWN.
5. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).
6. ALL PUSH BUTTONS SHALL BE APS.
7. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
8. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE NEXT TO TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.



NORTHEAST CORNER

TS 4540

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

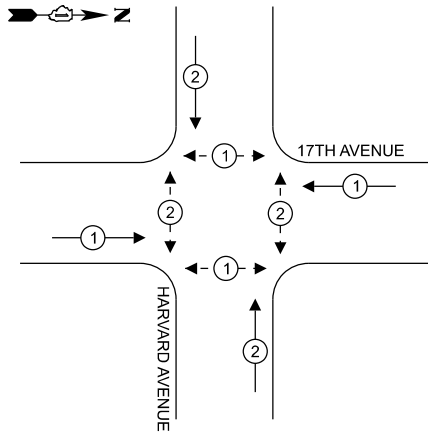
TRAFFIC SIGNAL MODERNIZATION PLAN 17TH AVE AT HARVARD ST

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2722	FAU 2722 23 SMART	COOK	97	80
		CONTRACT NO. 62V90		
		JUNIOR	FED. AID PROJECT	

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EXISTING CONTROLLER SEQUENCE

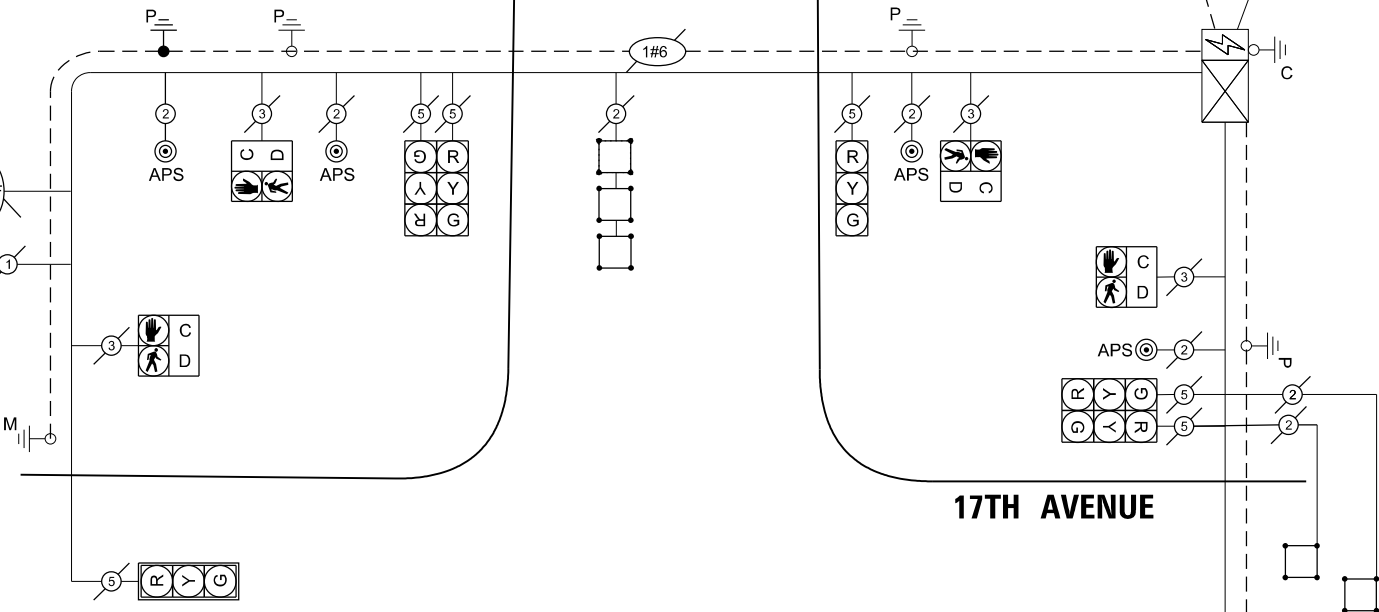


LEGEND:

- PROTECTED PHASE
- OVERLAP
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE

INTERCONNECT TO ROOSEVELT ROAD

TRACER CABLE



17TH AVENUE

HARVARD ST

TRACER CABLE

INTERCONNECT TO BATAAN DRIVE

CABLE PLAN
(NOT TO SCALE)

I. D. O. T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	12	11	132
4-SECTION		14	
5-SECTION	-	13	-
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIGNING		427	

UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING		1032	

ENERGY COSTS TO:
VILLAGE OF BROADVIEW
2350 SOUTH 25TH AVENUE
BROADVIEW ILLINOIS 60155

ENERGY SUPPLY: CONTACT: ERICKA IRBY
PHONE: 779-231-0633
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 2338777000

SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
DETECTOR LOOP, TYPE I	FOOT	294
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	155
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA	FEET	17
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FEET	89
DRILL EXISTING HANDHOLE	EACH	1
PEDESTRIAN SIGNAL POST, 5FT	EACH	1
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	37
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	38.5
CONCRETE FOUNDATION, TYPE A	FOOT	4
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1

Michael Baker

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Phone: (312) 707-8770 • M.BAKER@INTL.COM

USER NAME = Zach.Tanner
DESIGNED - ZJT
DRAWN - MFK
CHECKED - WJT
DATE - 06/15/2024

REVISIONS
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND SCHEDULE OF QUANTITIES
17TH AVE AT HARVARD ST

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

1 REVISED ENTIRE SHEET 12/23/2024

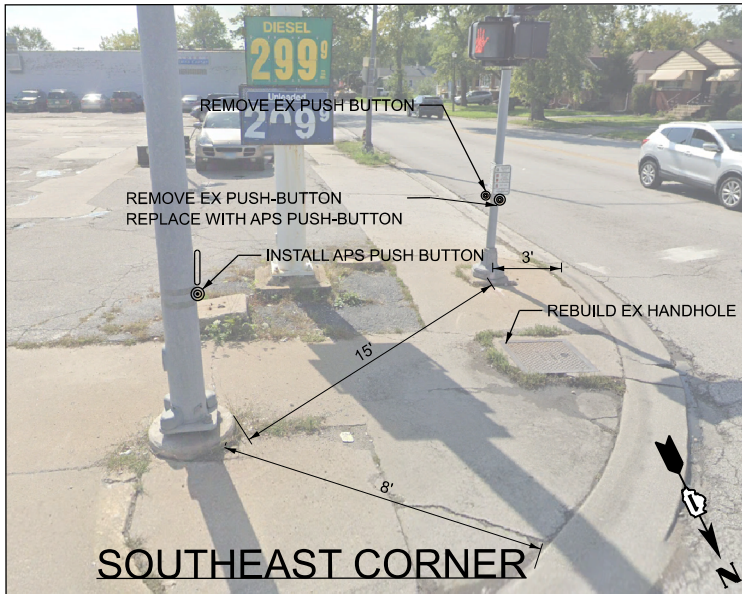
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2722	FAU 2722 23 SMART	COOK	97	81
CONTRACT NO. 62V90				

ILLINOIS FED. AID PROJECT



NOTE:

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.
2. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL ENGINEER.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.
4. THIS PLAN IS FOR THE REMOVAL OF PUSH-BUTTONS, INSTALLATION OF APS PUSH-BUTTONS AND REPLACEMENT OF LOOP DETECTORS WITHIN THE RESURFACING LIMITS AS SHOWN.
5. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).
6. ALL PUSH BUTTONS SHALL BE APS.
7. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
8. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE NEXT TO TRAFFIC SIGNAL FOUNDATION TO BE ADA COMPLIANT.



TS 105

REMOVAL NOTES:

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

6 EACH PEDESTRIAN PUSH-BUTTON

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
17TH AVE AT BATAAN DR

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

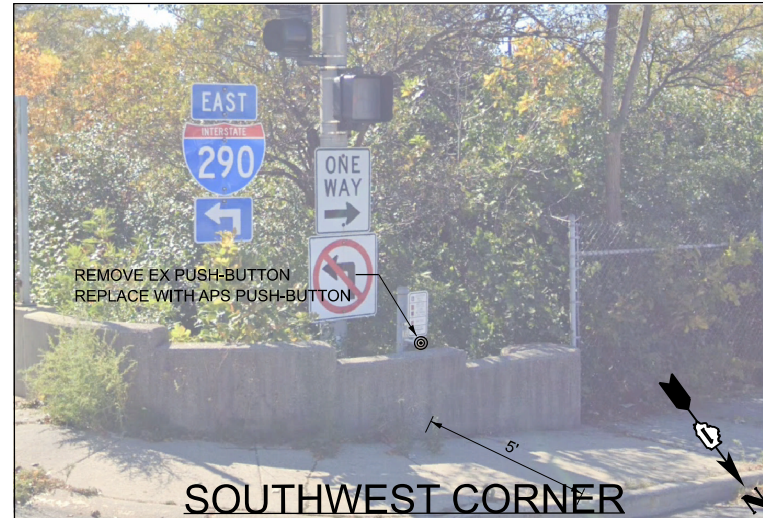
1 REVISED ENTIRE SHEET 12/23/2024

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USER NAME = Zach.Tanner
DESIGNED - WJT
DRAWN - MFK
PLOT SCALE = 0.16666633 1/In.
CHECKED - ZJT
PLOT DATE = 12/23/2024
DATE - 06/15/2024
REVISED -

DESIGNED - WJT
DRAWN - MFK
CHECKED - ZJT
DATE - 06/15/2024
REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2722	FAU 2722 23 SMART	COOK	97	82
CONTRACT NO. 62V90				
ILLINOIS FED. AID PROJECT				

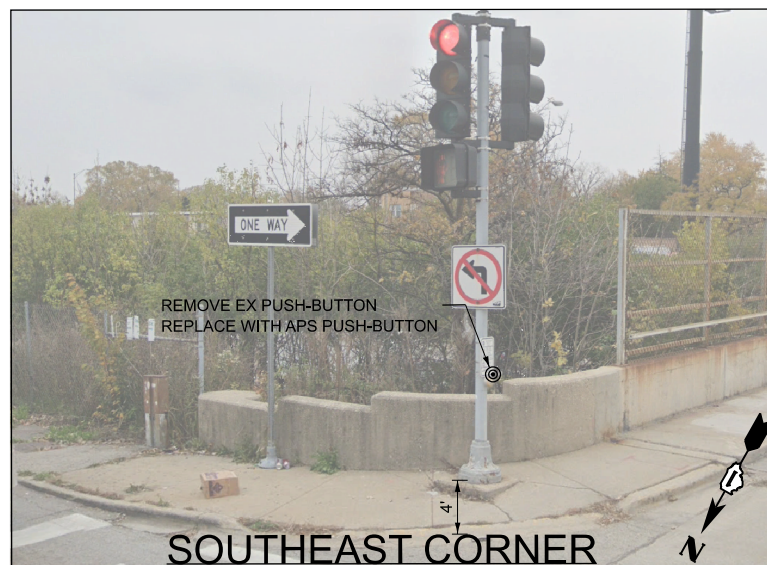
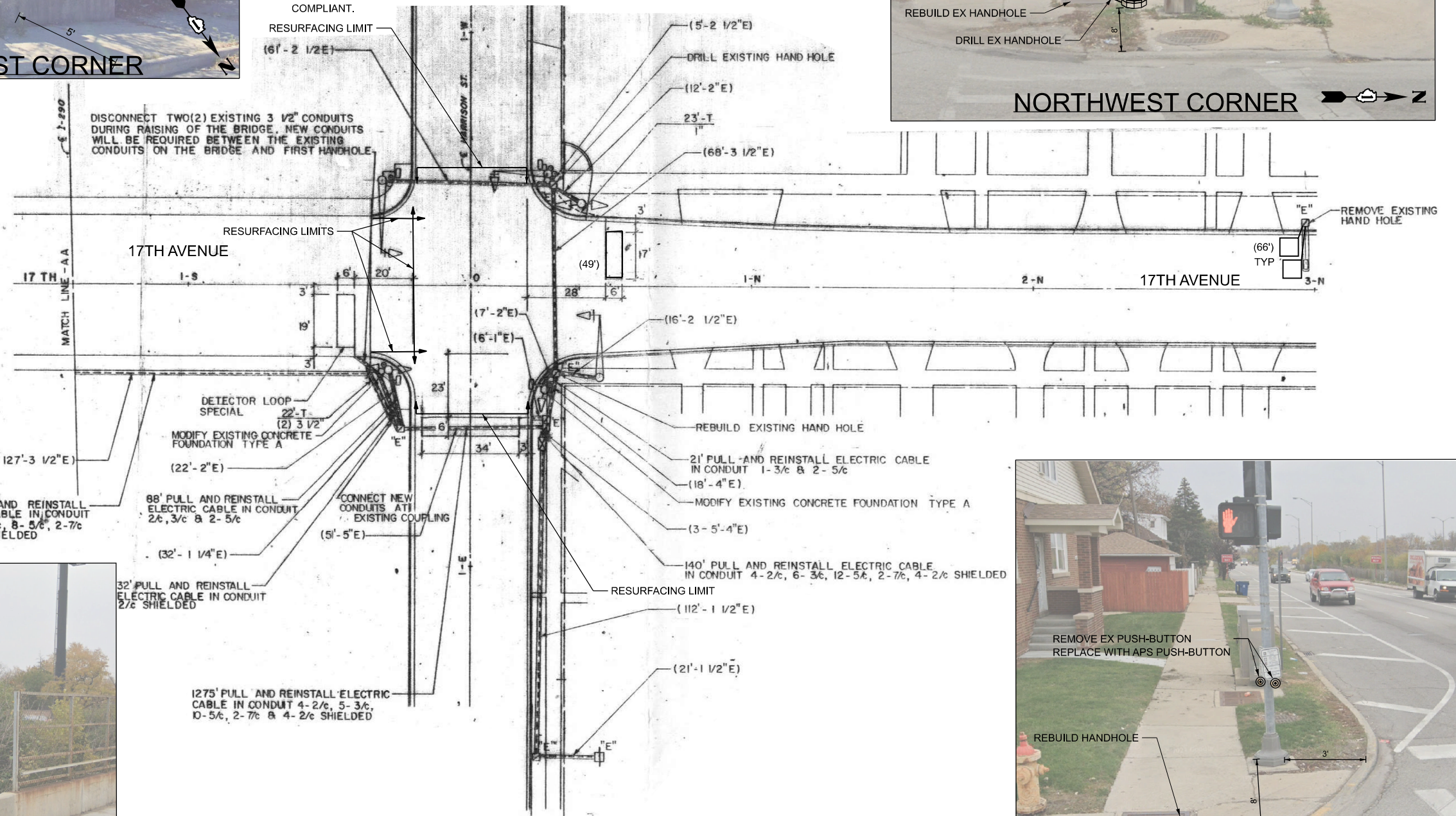


SOUTHWEST CORNER

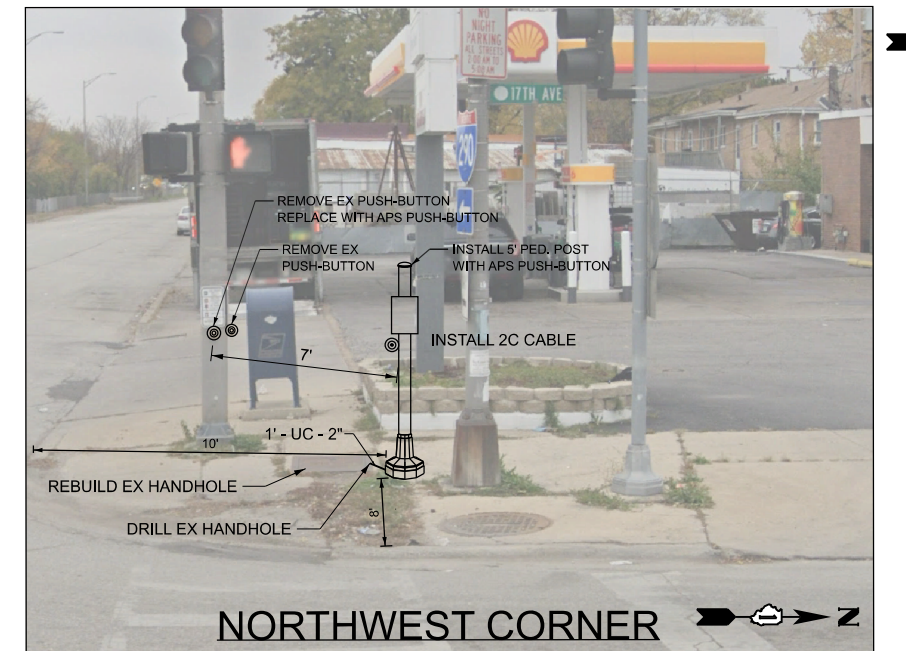
REMOVAL NOTES:

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

6 EACH PEDESTRIAN PUSH-BUTTON



SOUTHEAST CORNER



NORTHWEST CORNER



NORTHEAST CORNER

S 105

1 REVISED ENTIRE SHEET 12/23/2024

Michael Baker

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USER NAME	= Zach.Tanner
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DESIGNED -

REVISÉ -

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DRAWN	—
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REVISÉ -

PLOT SCALE = 0.16666633' / I

CHECKED _____

REVISÉ -

DATE _____

REVISÉ -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN 17TH AVE AT HARRISON ST

17TH AVE AT HARRISON ST

SCALE: NONE

SHEET 2

OF 3

SHEET

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TO STA.

F.A.U.	SECTION
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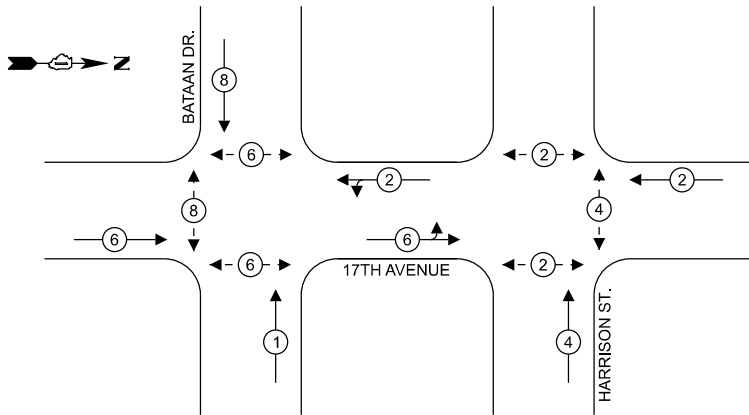
COUNTY	TOTAL	SHEET
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	SHEETS	NO.
COOK	03	83

CONTRACT NO. 63V80	91	99
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ILLINOIS	FED. AID PROJECT
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EXISTING CONTROLLER SEQUENCE



LEGEND:

- Protected Phase
- Overlap
- Protected/Permitted Phase
- Pedestrian Phase

I. D. O. T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT	WATTAGE	TOTAL
SIGNAL HEAD 1 OR 3-SECTION	15	11	165	
4-SECTION		14		
5-SECTION	4	13	52	
PROGRAMMABLE 3-SECTION	-	22	-	
4-SECTION	-	32	-	
5-SECTION	-	28	-	
PEDESTRIAN SIGNAL	12	15	180	
CONTROLLER	1	150	150	
MASTER CONTROLLER	-	100	-	
UPS	1	25	25	
DETECTION RADAR OR VIDEO	-	20	-	
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
TOTAL UPS SIGNING			572	
UPS CHARGING	1	225	225	
BATTERY HEATER MAT	1	180	180	
CABINET HEATER	1	200	200	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
TOTAL SERVICE WIRE SIZING			1,177	
ENERGY COSTS TO: VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD ILLINOIS 60153				
ENERGY SUPPLY: CONTACT: ERICKA IRBY PHONE: 779-231-0633 COMPANY: COMMONWEALTH EDISON ACCOUNT NUMBER: -				

SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	12
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
DETECTOR LOOP, TYPE I	FOOT	230
DRILL EXISTING HANDHOLE	EACH	2
PEDESTRIAN SIGNAL POST, 5 FT	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1091
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1094
REBUILD EXISTING HANDHOLE	EACH	5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA	FOOT	13
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	45

INTERCONNECT TO HARVARD AVE

TRACER CABLE

CABLE PLAN
(NOT TO SCALE)

INTERCONNECT

TRACER CABLE

TS 105

1 REVISED ENTIRE SHEET 12/23/2024

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
17TH AVE AT BATAAN DR AND HARRISON ST

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2722	FAU 2722 23 SMART	COOK	97	84
CONTRACT NO. 62V90				

ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Michael Baker

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