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	20/20-4094-00 II
#	9

INFRASTRUCTURE ENGINEERING   IRCORPORATE 1 South Wacker   Suite 2650   Chicago, IL 60006 1 211.435.560   f 312.435.564   Iwwalintuscure arg con	USER NAME = APatterson	DESIGNED - MLD	REVISED -	
		DRAWN - MLD	REVISED -	
	PLOT SCALE = 20.0000 ' / in.	CHECKED ACL	REVISED =	
			DATE 12/08/2022	
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

DESIGNATION

	SU	MMARY OF C	UANTIT	TIES
WILLOW	ROAD	(LANDWEHR	RD TO	WAUKEGAN RD)
TS			STA.	TO STA.

REVISED SHEET 2/14/2023

	Î	USER NAME = APatterson	DESIGNED MLD	REVISED -	
ı	INFRASTRUCTURE		DRAWN - MLD	REVISED -	STATE OF ILLINOIS

	USER NAME = APatterson	DESIGNED MLD	REVISED -	
IFRASTRUCTURE		DRAWN - MLD	REVISED -	STATE OF ILLINOIS
NGINEERING   INCORPORATED Duth Wacker   Suite 2650   Chicago, IL 60606		CHECKED - ACL	REVISED -	DEPARTMENT OF TRANSPOR
112 475 0560   5 217 425 0564   www.infrastructure.org.com		DATE 12/00/2022	1	

	SUMMARY OF QUANTITIES							
	WILLO	W	ROAD	(LANDWEHR	RD	T0	WAUKEGAN	RD)
SCALE: NTS						STA.	TO	STA.

SECTION		TOTAL SHEETS		
2021-048-RS		соок	61	3
		CONTRACT	NO. 62	2N80
ILLINOIS	FED. A	D PROJECT		

ORTATION

CONSTRUCTION CODE

80%

**FEDERAL** 

20% STATE

100%

VILLAGE

OF

**GLENVIEW** 

0005

100%

STATE

80%

**FEDERAL** 

20% STATE

265

266

266

13

75

19

920

87

886

41.777

49,504

139

599

403

16

4

9,103

2,866

1,054

91,247

35

7,921

4,797

8,640 8,667 8,667 8,667

URBAN

TOTAL

QUANTITY

265

266

266

13

75

19

920

87

886

41,777

49,504

139

599

403

16

4

9,103

2,866

1,054

91,247

35

7,921

4,797

UNIT

CU YD

SQ YD

SQ YD

UNIT

POUND

EACH

SQ YD

TON

SQ YD

POUND

FOOT

TON

SQ YD

TON

TON

TON

TON

SQ YD

SQ FT

SQ FT

SQ YD

SQ YD

SQ FT

SQ YD

42001300 PROTECTIVE COAT

42400800 DETECTABLE WARNINGS

44000600 SIDEWALK REMOVAL

44000200 DRIVEWAY PAVEMENT REMOVAL

PAY ITEM

NUMBER

20200100 EARTH EXCAVATION

21101615 TOPSOIL FURNISH AND PLACE, 4"

28000250 TEMPORARY EROSION CONTROL SEEDING

30300112 AGGREGATE SUBGRADE IMPROVEMENT 12"

35300500 PORTLAND CEMENT CONCRETE BASE COURSE 10"

40600400 MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS

40600982 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

40601005 HOT-MIX ASPHALT REPLACEMENT OVER PATCHES

40603080 HOT-MIX ASPHALT BINDER COURSE, IL- 19.0, N50

42400200 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH

44000156 HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"

40604060 HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50

40605026 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80

35101400 AGGREGATE BASE COURSE, TYPE B

40600290 BITUMINOUS MATERIALS (TACK COAT)

40600370 LONGITUDINAL JOINT SEALANT

25200110 SODDING, SALT TOLERANT

25200200 SUPPLEMENTAL WATERING

28000510 INLET FILTERS

INFRASTRUCTURE ENGINEERING   INCOFFERING 1 South Wacker   Sulte 2650   Chicago, IL 60606 F 211.45.5950   F 312.415.5954   inwandinastructure ag con	USER NAME = APatterson	DESIGNED MLD	REVISED -		
		DRAWN - MLD	REVISED -		
		CHECKED ACL	REVISED -		
			DATE = 12/08/2022		

DESIGNATION

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

CONSTRUCTION CODE

80%

FEDERAL

0021

20% STATE GLENVIEW

100%

VILLAGE

URBAN

TOTAL

QUANTITY

520

560

400

120

50

100

4,647

4,968

45

**8**,356

16

UNIT

SQ FT

SQ FT

SQ YD

SQ YD

SQ YD

SQ YD

EACH

SQ YD

SQ YD

SQ YD

FOOT

EACH

FOOT

POUND

EACH

0005

100%

STATE

80%

FEDERAL

20% STATE

520

560

400

120

1,860

50

100

4,647

4,968

45

€,356

2,630

16

16,002 14,244 14,244

SUMMARY OF QUANTITIES WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD) STA.

CONTRACT NO. 62N80 ILLINOIS FED. AID PROJECT

REVISED SHEET 2/14/2023								
SECTION	COUNTY	TOTAL SHEETS	SHEE NO.					
2021-048-RS	соок	61	4					

* =	SPECIALT	Y ITEM

ı						T		_
*	_	SI	PF(	^1 <i>L</i>	ıΤ	Y	ΙΤ	FI

PAY ITEM

NUMBER

44003100 MEDIAN REMOVAL

44003510 MEDIAN REMOVAL PARTIAL DEPTH

44200050 WELDED WIRE REINFORCEMENT

44200970 CLASS B PATCHES, TYPE II, 10 INCH

44200974 CLASS B PATCHES, TYPE III, 10 INCH

44200976 CLASS B PATCHES, TYPE IV, 10 INCH

44201777 CLASS D PATCHES, TYPE II, 11 INCH

44201781 CLASS D PATCHES, TYPE III, 11 INCH

44201783 CLASS D PATCHES, TYPE IV, 11 INCH

JOINT OR CRACK FILLING

60260100 INLETS TO BE ADJUSTED

60252800 CATCH BASINS TO BE RECONSTRUCTED

45200100 JOINT OR CRACK ROUTING (PC CONCRETE PAVEMENT AND SHOULDER)

44201299 DOWEL BARS 1 1/2"

44213200 SAW CUTS

45200300

44213204 TIE BARS 3/4"

1								
	60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	28	28	(		
У	60619200	CONCRETE MEDIAN, TYPE SB-6.06	SO FT	1,466	1,466	}		
Ī	60622400	CONCRETE MEDIAN, TYPE SM-6.06	SQ FT	<del>1,939</del> 486	<del>1,939</del> - 486	3 🔨		
[	,		>			3/11		
Ī	60622800	CONCRETE MEDIAN, TYPE SM-6.12	SQ FT	<del>706</del> - 67	<del>-706</del> 67	{		
[						,		
- [	63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	50.0	50.0			
- 1	63301990	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 1	EACH	3	3		1	
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	265	265			
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	10	10			
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1			

l	USER NAME = APatterson	DESIGNED - MLD	REVISED -
INFRASTRUCTURE		DRAWN - MLD	REVISED -
1 South Wacker   Suite 2650   Chicago, IL 60606		CHECKED ACL	REVISED =
P 312.425.9560   F 312.425.9564   www.infrastructure-eng.com		DATE 12/08/2022	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION CODE

0021

URBAN

0005

SUMMARY OF QUANTITIES WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD) STA.

SECT CONTRACT NO. 62N80

REVISED SHEET 2/14/2023							
TION	COUNTY	TOTAL SHEETS	SHEET NO.				
048-RS	соок	61	6				

			URBAN	000		00.		$\leftarrow$
PAY ITEM NUMBER	DESIGNATION	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE	100% STATE	80% FEDERAL 20% STATE	100% VILLAGE OF GLENVIEW	
								L
72400320	REMOVE SIGN PANEL - TYPE 2	SQ FT	315				315	L
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	52	52			. [	
1								
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	2,417	2,417				
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	35,786	35,786				
7 0000200	THE APPLIES OF THE PROPERTY OF	1001	33,750	33,700				$\vdash$
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	5,043	5,043				L
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1,003	1,003			. 1	
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	5,768	5,768				
k.								$\vdash$
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	<b>8</b> 63	<b>8</b> 63				$\vdash$
7 6000030	THERMOFLASTIC PAVEMENT MARKING - LINE 24	F001	•03	•03				$\vdash$
								_
78003137	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7"	FOOT	1,256	1,256				
78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	692	692				
78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	5,135	5,135				
78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	2,297	2,297				
7 6003000	PROBLED ORETHANE LAVERENT MARKING - EINE 0	1001	2,237	2,237				$\vdash$
			-	0.0				
78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	99	99				
								$\vdash$
78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	994	994				
78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	260	260				
78011040	GROOVING FOR RECESSED PAVEMENT MARKING 8"	FOOT	1,256	1,256				
, 00110	The state of the s		1,230	1,230				$\vdash$
								$\vdash$
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1,180	1,180				
								$\vdash$
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1,180	1,180				
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	5,549	5,549				
			1					
\$102 <b>\$</b> 200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	r <del>286</del>			<del>286</del>	K &\ 1	
-1025200	3,121, 2, 2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 2, 1, 2, 2, 1, 2, 2, 1, 2, 2, 2, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	(	318	h	$\overline{x}$	318	3/1\	
05000000	MAINTENANCE OF EVICTING TRAFFIC CICALAL INSTALLATION	54614	-					$\vdash$
<b>\$</b> 5000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	7			7		
								$\perp$
<b>\$</b> 5100100	PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	5				5	
<b>\$</b> 5100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	5				5	

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INFRASTRUCTURE ENGINEERING   INCORPORATED 1 South Wacker   Suite 2650   Chicago, IL 60606	USER NAME = APatterson	DESIGNED - MLD	REVISED -	
		DRAWN - MLD	REVISED -	
		CHECKED - ACL	REVISED =	
	P 312.425.9560   F 312.425.9564   www.infrastructure-eng.com		DATE 12/08/2022	

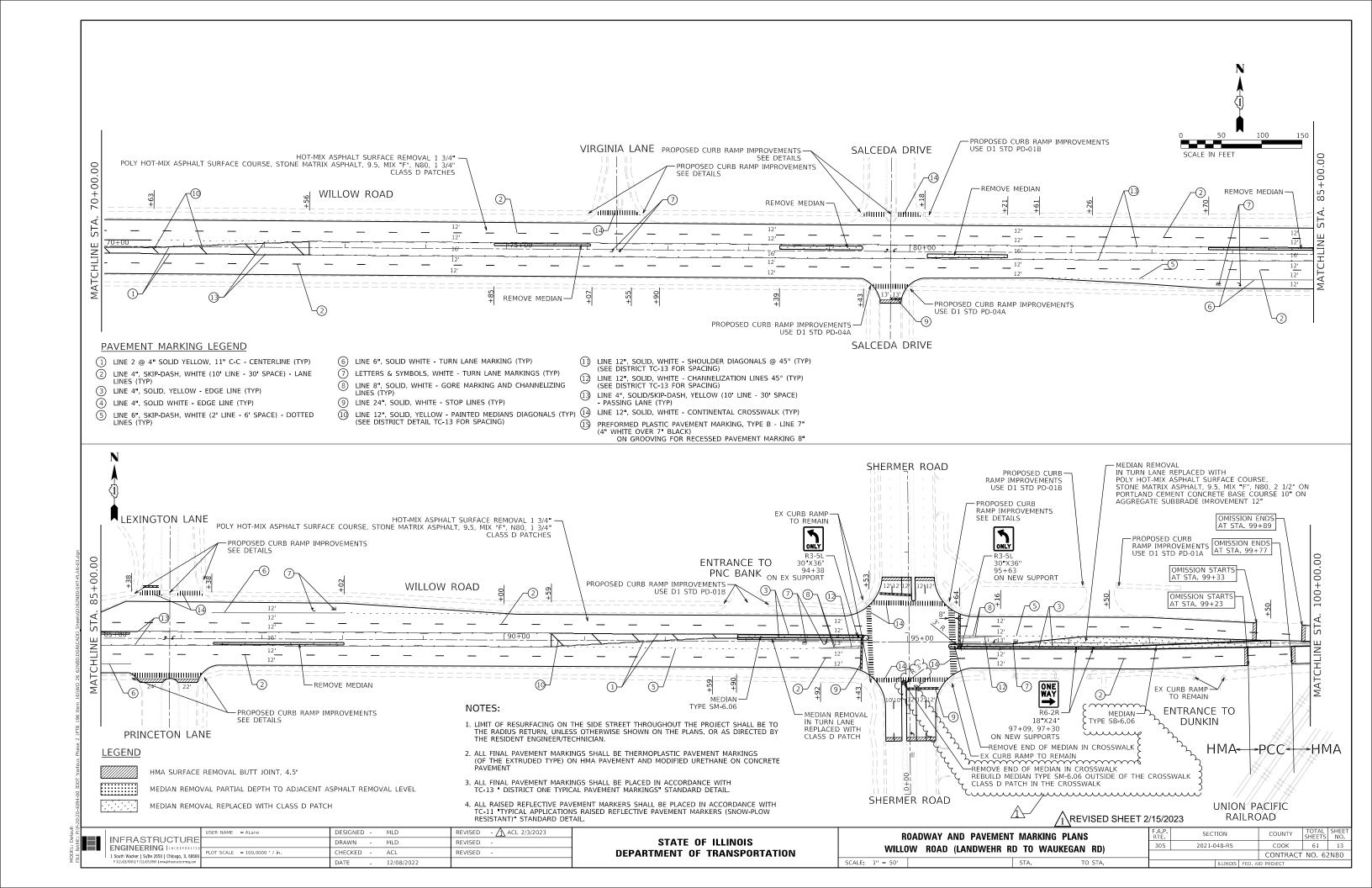
## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

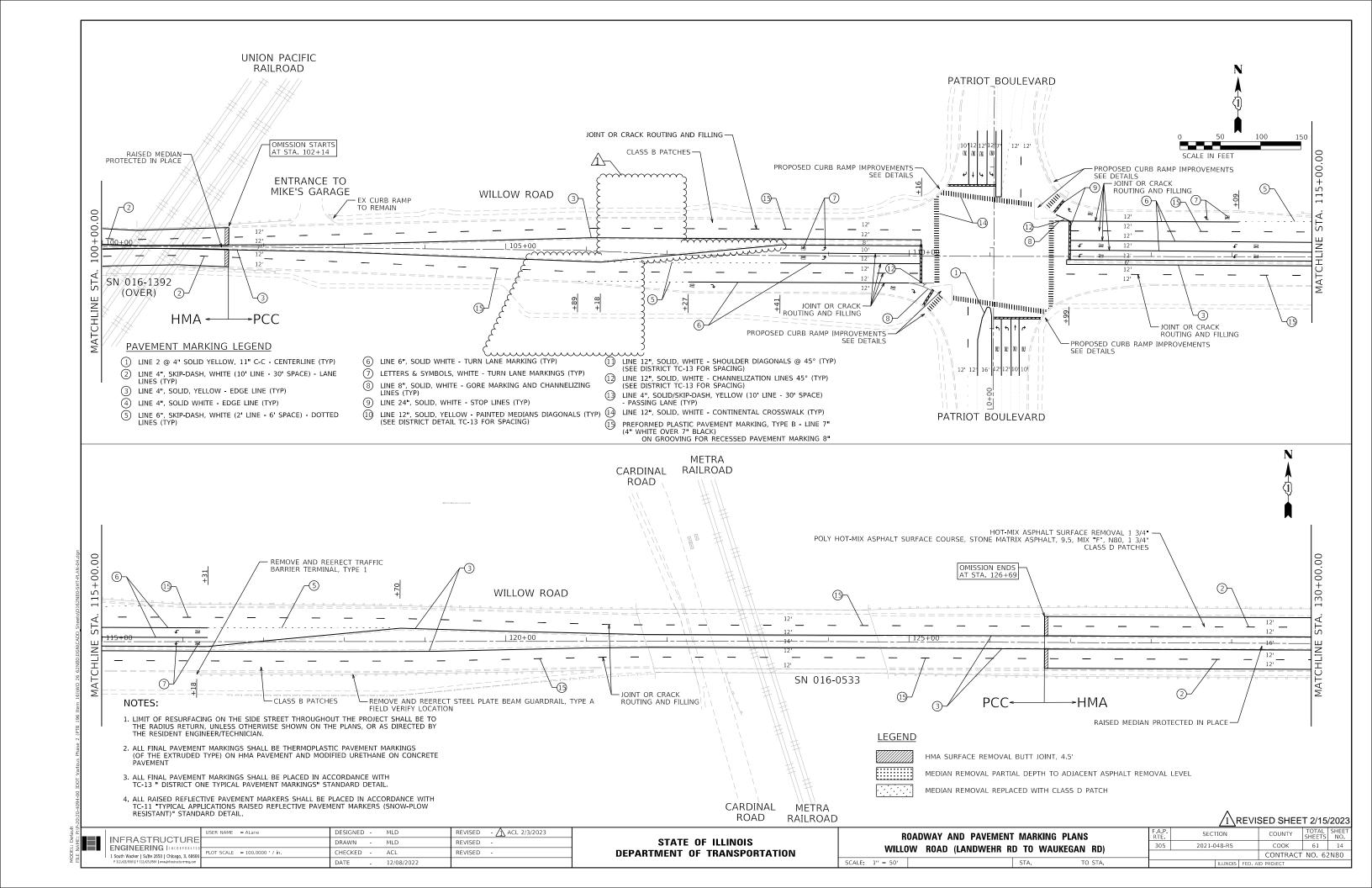
CONSTRUCTION CODE

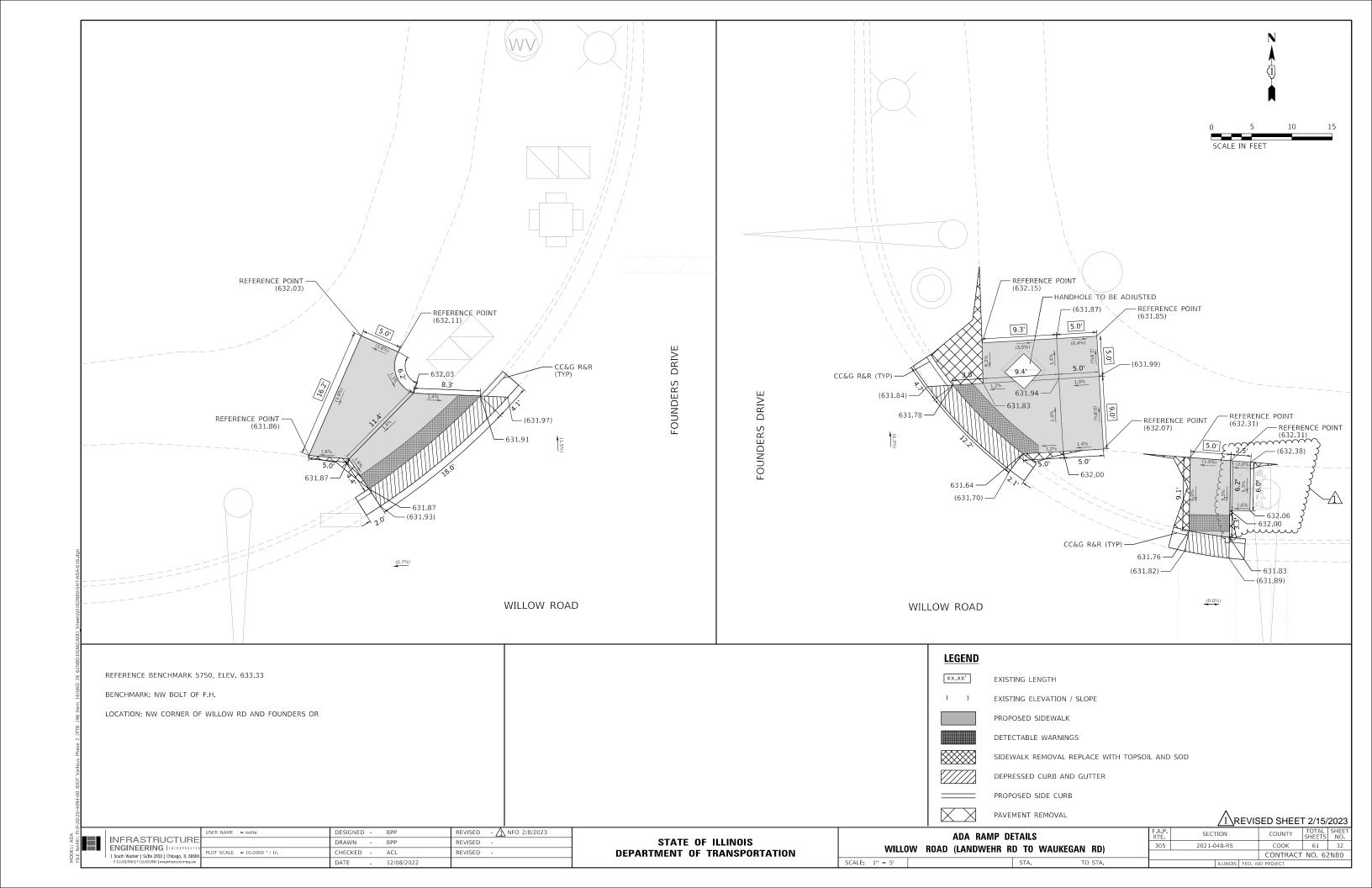
SUMMARY OF QUANTITIES							
WILLO	W ROAD	(LANDWEHR	RD TO	WAUKEGAN RD)			
SCALE: NTS			STA.	TO STA.			

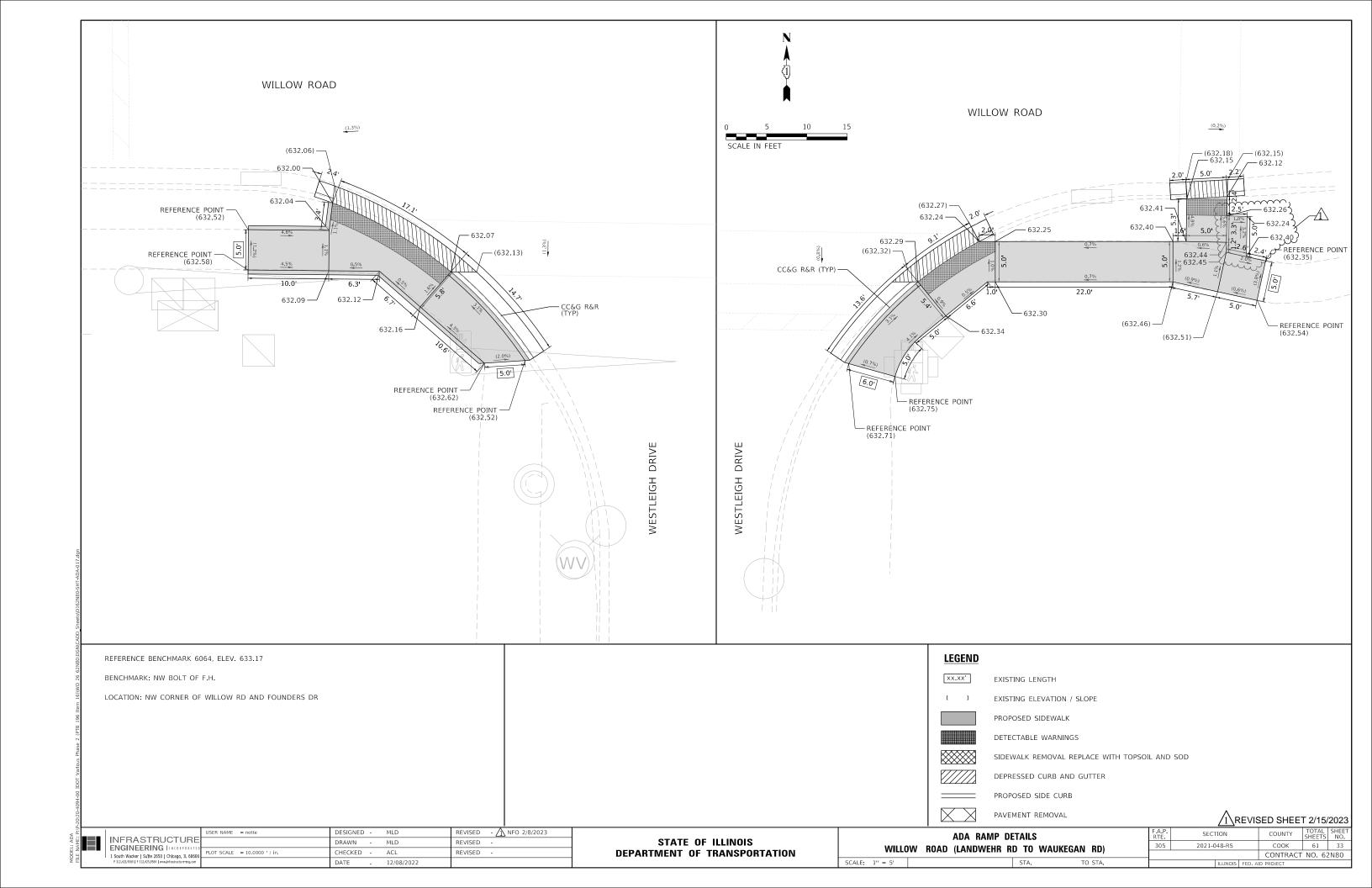
F.A.P.	SECTION	COUNTY	TOTAL	SHEET	NO.
305	2021-048-RS	COOK	61	7	
CONTRACT	NO.	62N80			
ILLINOIS	FED. AID	PROJECT			

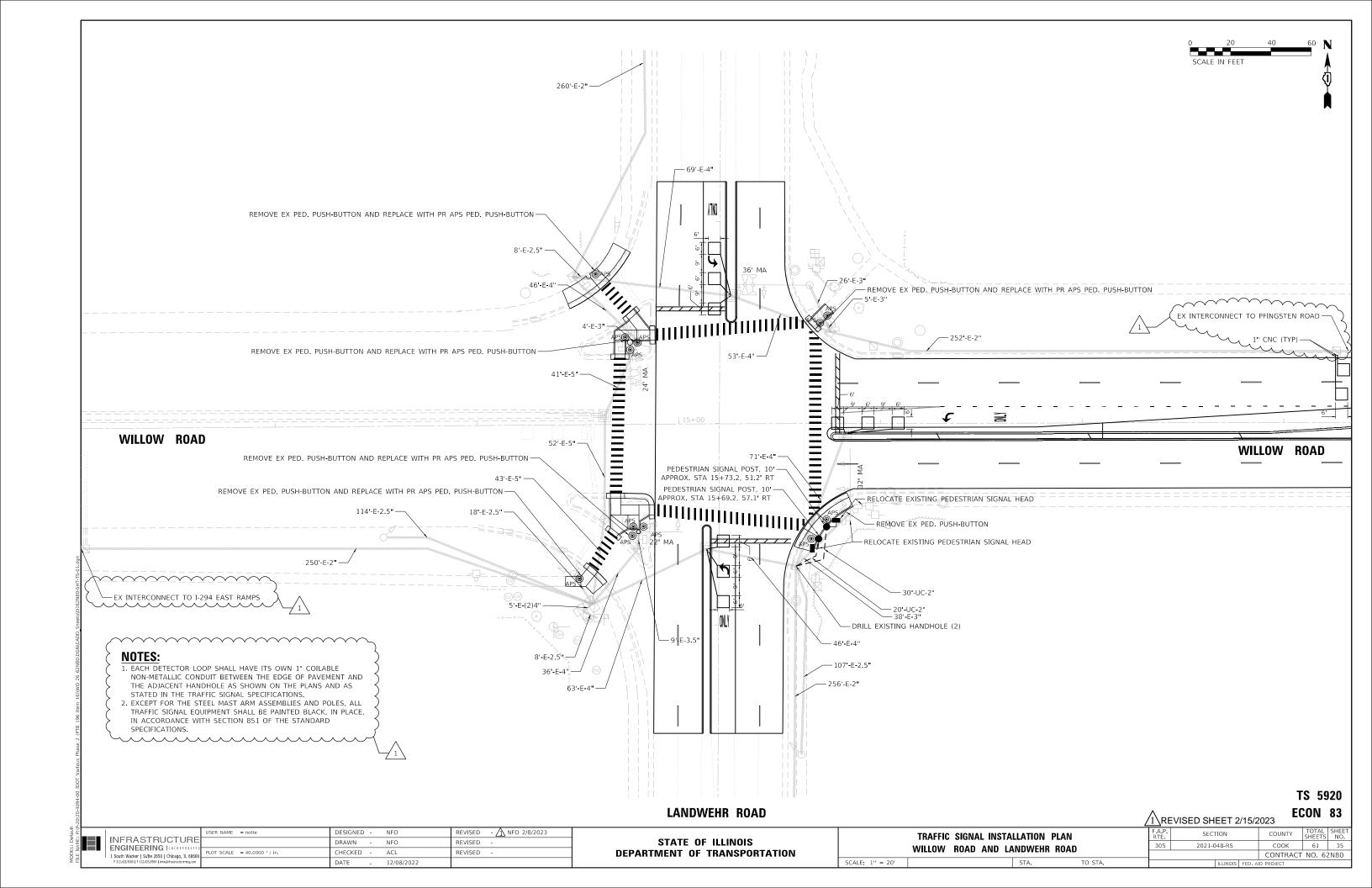
			URBAN	00	05	00	21	
PAY ITEM NUMBER	DESIGNATION	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE	100% STATE	80% FEDERAL 20% STATE	100% VILLAGE OF GLENVIEW	
			~~~~	·····	$\sim\sim$	·····		
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	<del>5,797</del> 6,331			<del>5,797</del> 6,331	<b>1</b>	
							3/1\	
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,843 2,403			<del>1,843</del> 2 403	}	
		(	ستثنى		······	with	)	
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	150			150		
87900200	DRILL EXISTING HANDHOLE	EACH	15			15		
07300200	BRIEE EXISTING TRAVETOEE	EACT	15			15		
00102717	PEDECEDIAN CICAMI LIFAD LED A FACE DOACCET MOUNTED WITH COUNTROWN THED	5000	, mm	m	$\sim$	14-		
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH (	12			12	3/1\	
88600100	DETECTOR LOOP, TYPE I	FOOT	4,622			4,622		
		,	mm	~~~~	~~~	mm		
89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH (	5			<del>3</del> 5	$\langle \rangle_1 \rangle$	
			<del>Juuu</del>		<del>uuu</del>	<del>minin</del>	J	
89502200	MODIFY EXISTING CONTROLLER	EACH	4			4		
<b>\$</b> 9502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	153			153	<b>₹</b> /₁\	
•3302330	HEMOVE THIS THEIR STATE ELECTRIC CASE THOSE CONDOIN	1001	320	Lucium 1	<del>uuu</del>	<del>~320</del>	3 213	
00502275	DEMONS ENICETING TO AFFIC CICANAL FOURMENT	FACU	-					
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	7			7		
<b>\$</b> 9502376	REBUILD EXISTING HANDHOLE	EACH	4			4		
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1			1		
X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	18				18	
X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	15			15		
	·							
X1400424	ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	<del>3,600</del> 4,953	$\sim$	$\sim$	m	<del>3,600</del>	1/ /
71400424	ELECTRIC CABLE IN COMPON, STREET NAME SIGN, NO. 14 SC, 1112 SOOW	1001	4,953	<del>uuu</del>			4,953	<u> 3 Z1</u>
V14004E0	DEDUILD EVICTING LIFANY DUTY HANDHOLF	FACU	2			2		
X140U45U	REBUILD EXISTING HEAVY-DUTY HANDHOLE	EACH	3			3		
X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	4,435	4,435				
X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	3,602	3,602				
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	600		600			
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	27	27				
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12				
70700407	E. C. LEED OFFICE, THE TO DAY	CAL IVIO	14	12				
V0700000	ACCECCIBLE DEDECTRIAN CICNALC	EAGIL						
x8/60200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	54			54		
V0700013	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	60			60		
X878UU12								_



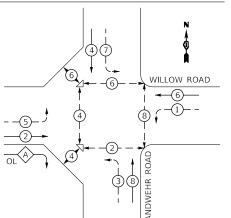








#### **EXISTING CONTROLLER SEQUENCE**



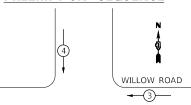
#### PHASE DESIGNATION DIAGRAM



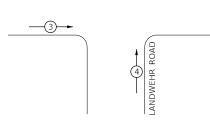
#### LEGEND:

- \* PROTECTED PHASE
- → -(\*)- PROTECTED/PERMITTED PHASE
- → PEDESTRIAN PHASE
- - NUMBER REFERS TO ASSOCIATED PHASE

#### **EXISTING EMERGENCY VEHICLE** PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS					
EMERGENCY VEHICLE PREEMPTOR	3	4			
MOVEMENT	=	<b>↓</b> †			



#### DETAILS FOR LED INTERNALLY ILLUMINATED SIGNS

NOTE: ALL REMOVED STREET NAME SIGNS SHALL BE REPLACED AT THEIR EXISTING LOCATION. Willow Rd

# Landwehr Rd

						<u> </u>
6.36	48.16		<del>- -</del> 6 - -	11.12	6.36	BORDER R=1.88"
-		78"			-	TH=0.75

#### TRAFFIC SIGNAL INSTALLATION **ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	17	0.50	153.0
(YELLOW)	18	25	0.25	112.5
(GREEN)	18	15	0.25	67.5
PERMISSIVE ARROW	24	12	0.10	28.8
PED. SIGNAL	12	25	1.00	300.0
CONTROLLER	1	100	1.00	100.0
UPS	1	25	1.00	25.0
VIDEO SYSTEM		150	1.00	
BLANK-OUT SIGN		25	0.05	
FLASHER			0.50	
STREET NAME SIGN	4	120	0.50	240.0
LUMINAIRE				
ENERGY COSTS TO:			TOTAL =	1026.8
	SIGNAL (RED)  (YELLOW)  (GREEN)  PERMISSIVE ARROW  PED. SIGNAL  CONTROLLER  UPS  VIDEO SYSTEM  BLANK-OUT SIGN  FLASHER  STREET NAME SIGN  LUMINAIRE	TYPE LAMPS SIGNAL (RED) 18 (YELLOW) 18 (GREEN) 18 PERMISSIVE ARROW 24 PED. SIGNAL 12 CONTROLLER 1 UPS 1 VIDEO SYSTEM BLANK-OUT SIGN FLASHER STREET NAME SIGN 4 LUMINAIRE	TYPE         LAMPS         WATTAGE           SIGNAL (RED)         18         17           (YELLOW)         18         25           (GREEN)         18         15           PERMISSIVE ARROW         24         12           PED. SIGNAL         12         25           CONTROLLER         1         100           UPS         1         25           VIDEO SYSTEM         150         150           BLANK-OUT SIGN         25         FLASHER           STREET NAME SIGN         4         120           LUMINAIRE	TYPE         LAMPS         WATTAGE         OPERATION           SIGNAL (RED)         18         17         0.50           (YELLOW)         18         25         0.25           (GREEN)         18         15         0.25           PERMISSIVE ARROW         24         12         0.10           PED. SIGNAL         12         25         1.00           CONTROLLER         1         100         1.00           UPS         1         25         1.00           VIDEO SYSTEM         150         1.00           BLANK-OUT SIGN         25         0.05           FLASHER         0.50           STREET NAME SIGN         4         120         0.50           LUMINAIRE

#### ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAY/DISTRICT 1

201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: MS. JO BEILER
PHONE: (847) 870-2056
COMPANY: COMED

ACCOUNT NUMBER:

ENGINEERING LINCORPO

DESIGNED - NFO REVISED - 1 NFO 2/8/2023 **INFRASTRUCTURE** DRAWN -NFO REVISED REVISED 1 South Wacker | Suite 2650 | Chicago, IL 60606

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DIAGRAM, AND **EVP SEQUENCE | WILLOW ROAD & LANDWEHR ROAD** 

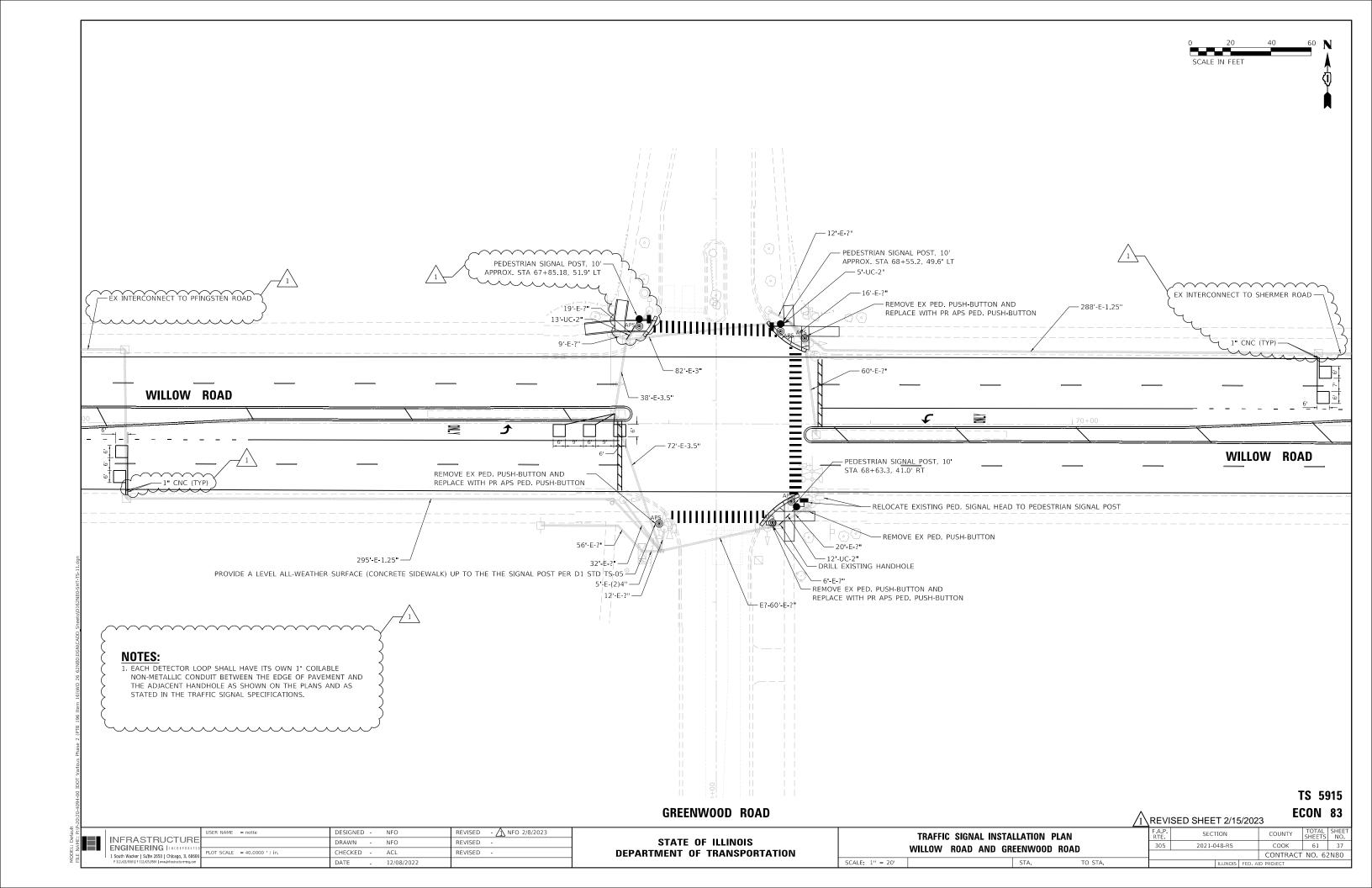
COOK 61 36 2021-048-RS CONTRACT NO. 62N80

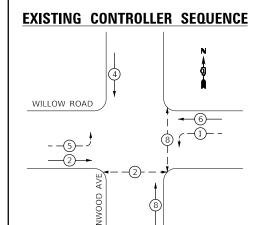
TRACER CABLE Sp ⊕<sub>APS</sub> EX INTERCONNECT TO PFINGSTEN ROAD IS 3#20 -WILLOW ROAD TRACER CABLE EX INTERCONNECT TO I-294 EAST RAMPS **TTOTAL** 5 **CABLE PLAN SCHEDULE OF QUANTITIES** DECCRIPTION LINITE TOTAL

	DESCRIPTION	UNII	IOIAL
)	LLÉD INTERNALLY ILLUMINATÉD STREET NAME SIGN	ĚÁCH	4
/	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
	REMOVE EXISTING PEDESTRIAN PUSH BUTTON	EACH	6
J	ĹĔĽĘĊŤŔĨĊ ČABĽĔ ĬŇ ĊŎŇĎŲĬŤ, ŠŤŘĘĔŤ ŅĄMĔ ŠĬĠŇ, ŇŎ. Ĩ4 3C, ŤŶĚĔ ŠŎŎŴ	, FOOT	1050
/	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	50
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
)	ĹĎĂĨŇŤĔĶĬŚŤĨŇĠŤŘÁFĔĬĊŠĬĠŇĄĽĔŎŮĬĎŴĔŇŤ	ĚÁCH	1
_/	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1381
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	20
	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	12
	DRILL EXISTING HANDHOLE	EACH	2
	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
	DETECTOR LOOP, TYPE I	FOOT	397
	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2
	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	126

TS 5920

ECON 83 REVISED SHEET 2/15/2023





#### LEGEND:

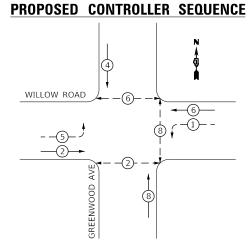
\* PROTECTED PHASE

→ -(\*)— - PROTECTED/PERMITTED PHASE

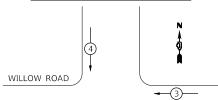
→ -(\*)- → PEDESTRIAN PHASE

\* OL OVERLAP

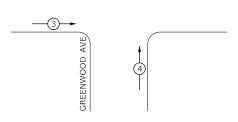
NUMBER REFERS TO ASSOCIATED PHASE



#### **EXISTING EMERGENCY VEHICLE** PREEMPTION SEQUENCE



EMERGENCY VEHICLE	PREEM	PTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	=	Į†



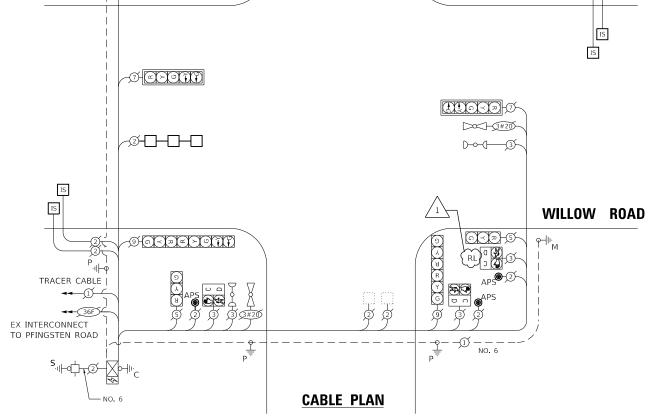
#### TRAFFIC SIGNAL INSTALLATION **ELECTRICAL SERVICE REQUIREMENTS**

-15-12.0gn	TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
Ę	SIGNAL (RED)	14	17	0.50	119.0
-N80	(YELLOW)	14	25	0.25	87.5
۹I (۱)	(GREEN)	14	15	0.25	52.5
Sheets/D162N8U-SHI	PERMISSIVE ARROW	8	12	0.10	9.6
•	PED. SIGNAL	6	25	1.00	150.0
Z6 6ZN8U(DGN(CADD	CONTROLLER	1	100	1.00	100.0
20/08	UPS	1	25	1.00	25.0
290	VIDEO SYSTEM		150	1.00	
	BLANK-OUT SIGN		25	0.05	
16)(WC	FLASHER			0.50	
196 Item	STREET NAME SIGN		120	0.50	
	LUMINAIRE				
2 (P1B					
Jase.	ENERGY COSTS TO:			TOTAL =	543.6

VILLAGE OF NORTHBROOK 1225 CEDAR LANE

ENER

NORTHBROOK, IL 60062	
RGY SUPPLY: CONTACT: TERRI BLECK	
PHONE: (847) 816-5239	
COMPANY: COMED	
ACCOUNT NUMBER:	



~9<del>-</del>979

GREENWOOD ROAD

R TO O

#### **SCHEDULE OF QUANTITIES**

	DESCRIPTION	UNIT	TOTAL
	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	3
	REMOVE EXISTING PEDESTRIAN PUSH BUTTON	EACH	4
,	LŮŇĎĘŘĠŖŎŮŇĎ ČŎŇĎŮĬŤ, ĞAĹVÁŇĬŽĔĎ ŠŤĘĚĽ, Ž"ĎĬA.	Ĭ,ĚŎŎŤ,Ĭ,	3,1,
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	442
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	430
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	30
	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
	DRILL EXISTING HANDHOLE	EACH	3
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, POST MOUNTED WITH COUNTDOWN TIMER	EACH	2
	DETECTOR LOOP, TYPE I	FOOT	252
	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1
	MODIFY EXISTING CONTROLLER	EACH	1
\	ĹŘĔMŎŶĔ ĂŇĎ ŘĔĬŊŚŤAĻĹ ĔĻĔĊŢŖĬĊ ÇĄĠĻĘ ĔŖŎM ĊŎŇĎIJĮŤ	Ľ,Ě,ŎŎŤ,Ľ,	`,`,`,&,&`,`)
	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

TS 5915

TRACER CABLE

EX INTERCONNECT

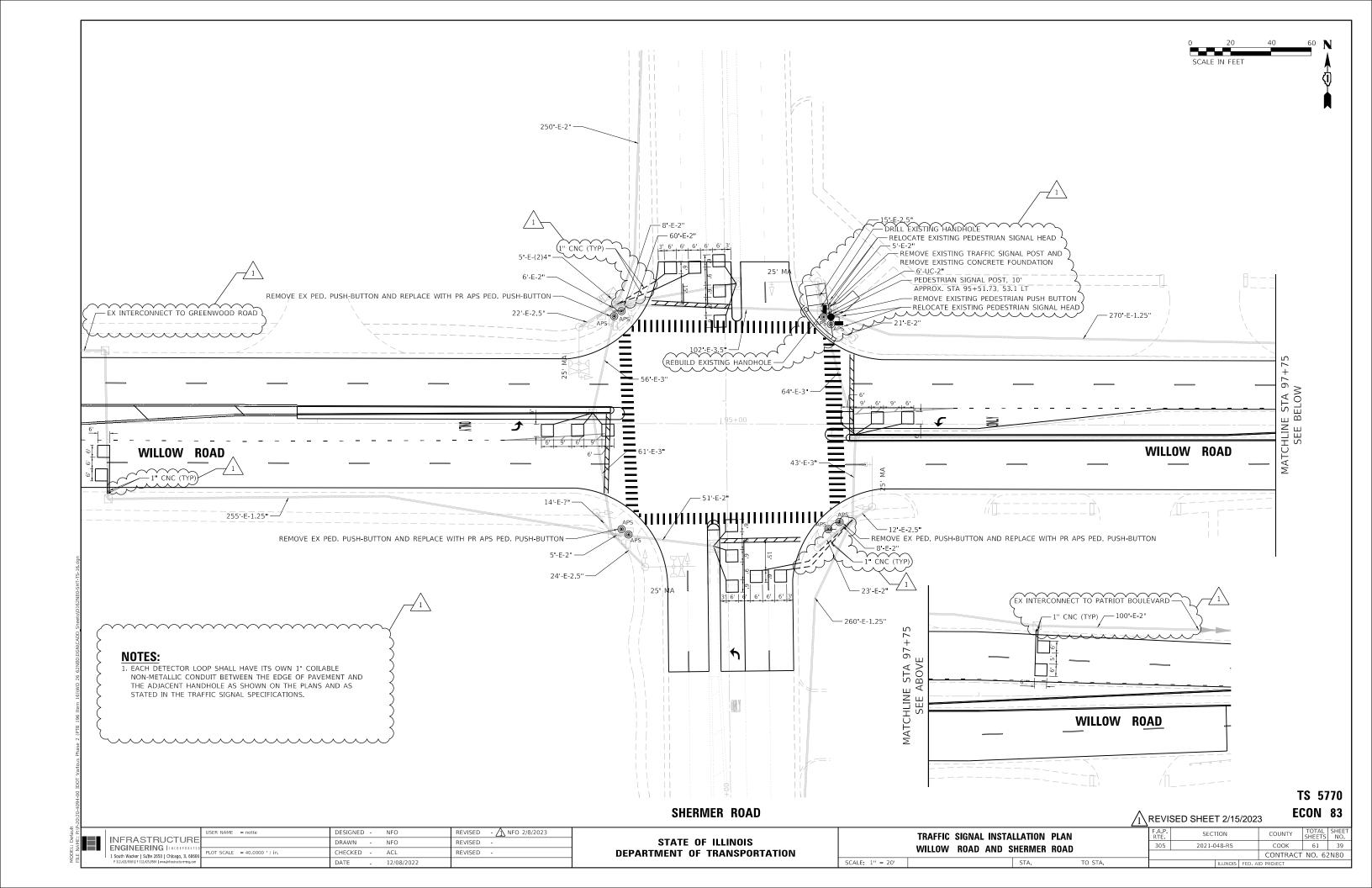
TO SHERMER ROAD

ECON 83 /\revised sheet 2/15/2023

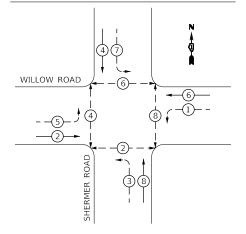
DESIGNED NFO REVISED - 1 NFO 2/8/2023 INFRASTRUCTURE ENGINEERING | INCORPORATED DRAWN -NFO REVISED CHECKED -ACL REVISED 1 South Wacker | Suite 2650 | Chicago, IL 60606 DATE 12/08/2022

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DIAGRAM, AND EVP SEQUENCE | WILLOW ROAD & GREENWOOD ROAD

COUNTY 2021-048-RS COOK 61 38 CONTRACT NO. 62N80



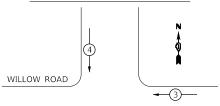
#### **EXISTING CONTROLLER SEQUENCE**



#### LEGEND:

- \* PROTECTED PHASE
- → -(\*) PROTECTED/PERMITTED PHASE
- → (\*)- ➤ PEDESTRIAN PHASE
- OVERLAP
  - NUMBER REFERS TO ASSOCIATED PHASE

#### **EXISTING EMERGENCY VEHICLE** PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS					
EMERGENCY VEHICLE PREEMPTOR	3	4			
MOVEMENT	<b>=</b>	<b>↓</b> †			

DESIGNED - NFO

NFO

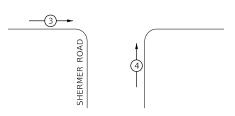
ACL

12/08/2022

DRAWN -

CHECKED -

DATE



#### TRAFFIC SIGNAL INSTALLATION **ELECTRICAL SERVICE REQUIREMENTS**

%	
E OPERATION	TOTAL WATTAGE
0.50	102.0
0.25	75.0
0.25	45.0
0.10	19.2
1.00	200.0
1.00	100.0
1.00	25.0
1.00	
0.05	
0.50	
0.50	
TOTAL =	566.2
	E OPERATION  0.50  0.25  0.25  0.10  1.00  1.00  1.00  0.05  0.50  0.50

#### ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAY/DISTRICT 1

201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT:

PHONE:

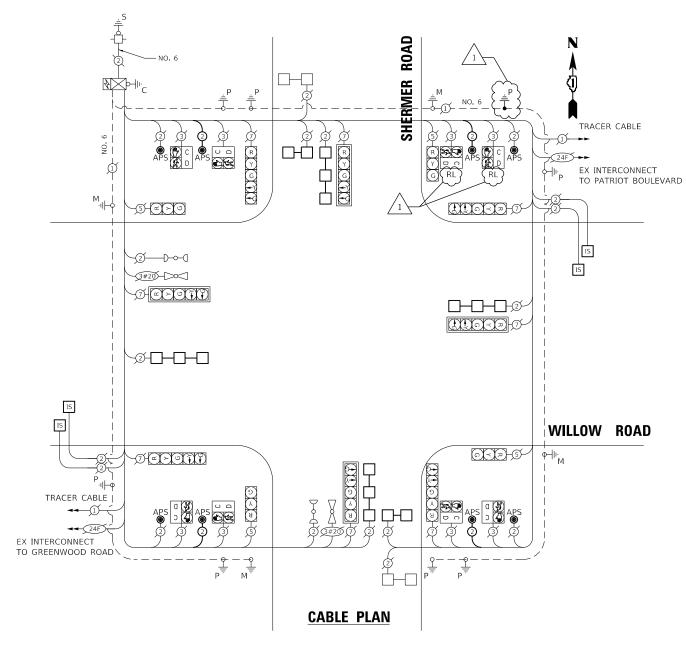
COMPANY: COMED

#### REVISED - 1 NFO 2/8/2023 REVISED REVISED

#### STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**



COUNTY 2021-048-RS COOK 61 40 CONTRACT NO. 62N80



#### **SCHEDULE OF QUANTITIES**

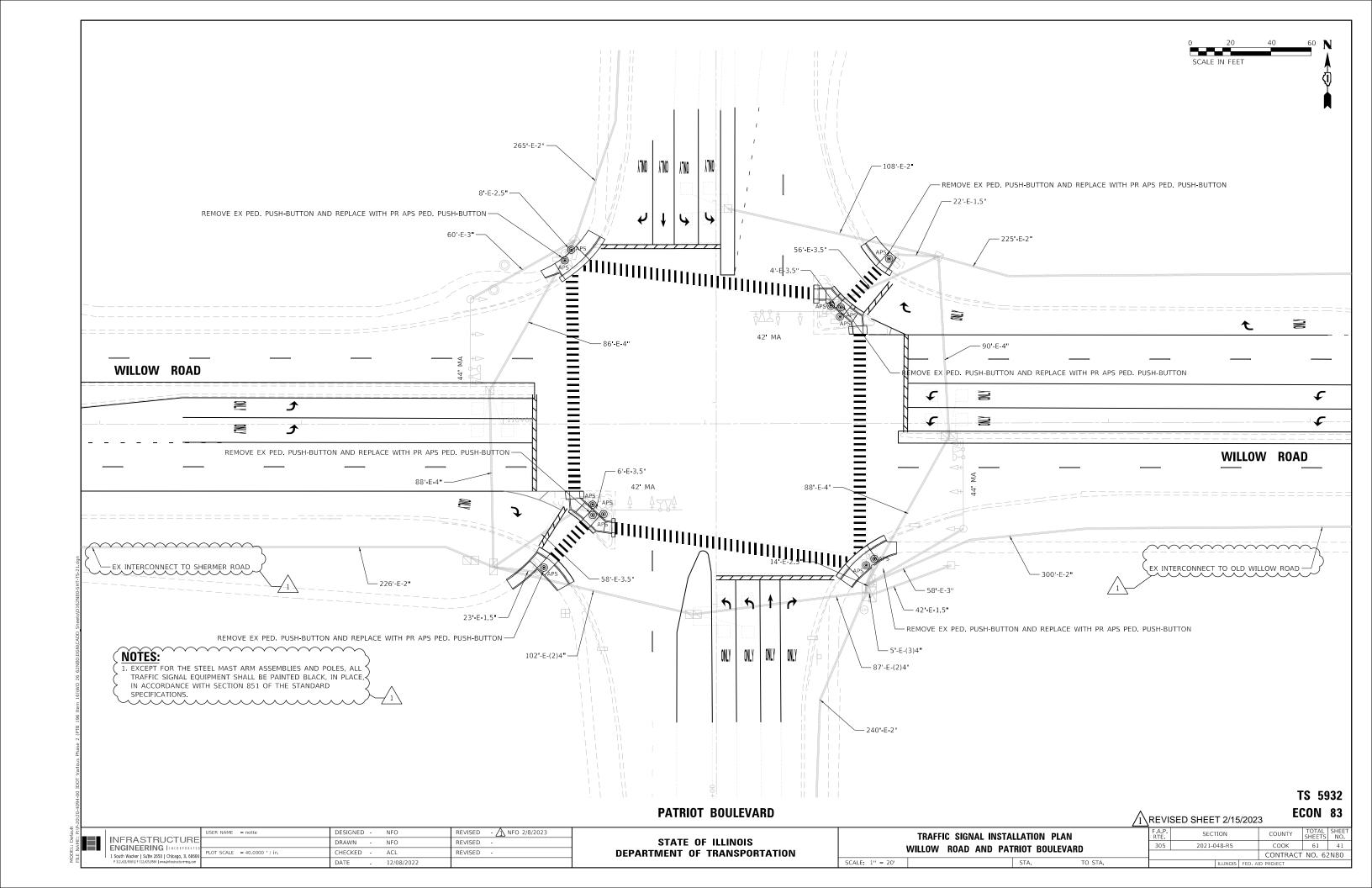
	DESCRIPTION	UNIT	TOTAL
^ /	PEDESTRIAN SIGNAL POST, 10 FT.	ĚÁCH	
/1	REMOVE EXISTING PEDESTRIAN PUSH BUTTON	EACH	4
$\sim$	LUNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	
1	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	675
$\wedge$	ĹĔĽĔĊŤŔĬĊĬĊĂBĽĔĬŇĬĊŎŇĎŮĬŤ,ĔŎŮĬPMĔŇŤĬĠŔŎŮŇĎĬŇĠĊŎŇĎŮĊŤŎŔŇŎŰŎŎĬĬŎĬĬĊĬĬŎ	FOOT	$\frac{1}{1}$
1	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	٠٠٠٠
	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
$\wedge$	DRILL EXISTING HANDHOLE	EACH	البيب
1	DETECTOR LOOP, TYPE I	FOOT	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2
>	REMOVE EXISTING TRAFFIC SIGNAL POST	EACH FOOT	36
(	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT		36
(	REBUILD EXISTING HANDHOLE	EACH	1
^ >	REMOVE EXISTING CONCRETE FOUNDATION	EACH	mil 1
/1			

TS 5770 ECON 83

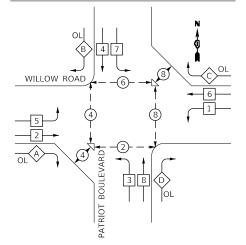
REVISED SHEET 2/15/2023

INFRASTRUCTURE ENGINEERING LINCORPORATE 1 South Wacker | Suite 2650 | Chicago, IL 60606

ACCOUNT NUMBER:



#### **EXISTING CONTROLLER SEQUENCE**



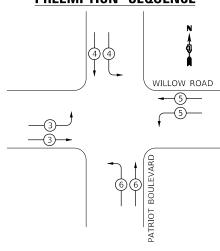
#### PHASE DESIGNATION DIAGRAM

OVERLAP		PERMISSIVE		PROTECTED
LETTER		PHASE		PHASE
A	=	2	+	3
В	=	4	+	5
C	=	6	+	7
D	=	8	+	1

#### LEGEND:

- \*) PROTECTED PHASE
- → -(\*)— PROTECTED/PERMITTED PHASE
- ◆ → DUAL ENTRY PHASE
- \* SINGLE ENTRY PHASE
- → -(\*)- ➤ PEDESTRIAN PHASE
- \* OL OVERLAP
  - NUMBER REFERS TO ASSOCIATED PHASE

### EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY	VEHICLE	E PREEMI	PTORS	
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	<u> </u>	1	<del>-</del>	7

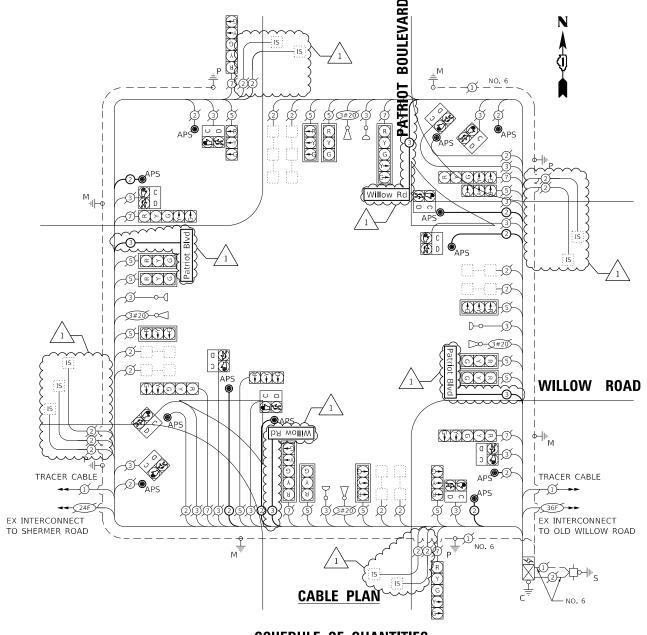
## TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

Sheets\D162N80-SHT-TS-22.dgn	TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SHT-T	SIGNAL (RED)	22	17	0.50	187.0
N80-	(YELLOW)	22	25	0.25	137.5
\D162	(GREEN)	22	15	0.25	82.5
heets	PERMISSIVE ARROW	16	12	0.10	19.2
	PED. SIGNAL	12	25	1.00	300.0
62N80\DGN\CADD	CONTROLLER	1	100	1.00	100.0
180\D	UPS	1	25	1.00	25.0
26 62N	VIDEO SYSTEM		150	1.00	
	BLANK-OUT SIGN		25	0.05	
16)\WO	FLASHER			0.50	
196 Item	STREET NAME SIGN	4	120	0.50	240.0
	LUMINAIRE				
2 (PTB					
hase	ENERGY COSTS TO:			TOTAL =	1091.2

ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAY/DISTRICT 1 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: COMED
PHONE: (866) 639-3532
COMPANY: COMED
ACCOUNT NUMBER:

# Patriot Blvd | Total | Signs | Signs



#### **SCHEDULE OF QUANTITIES**

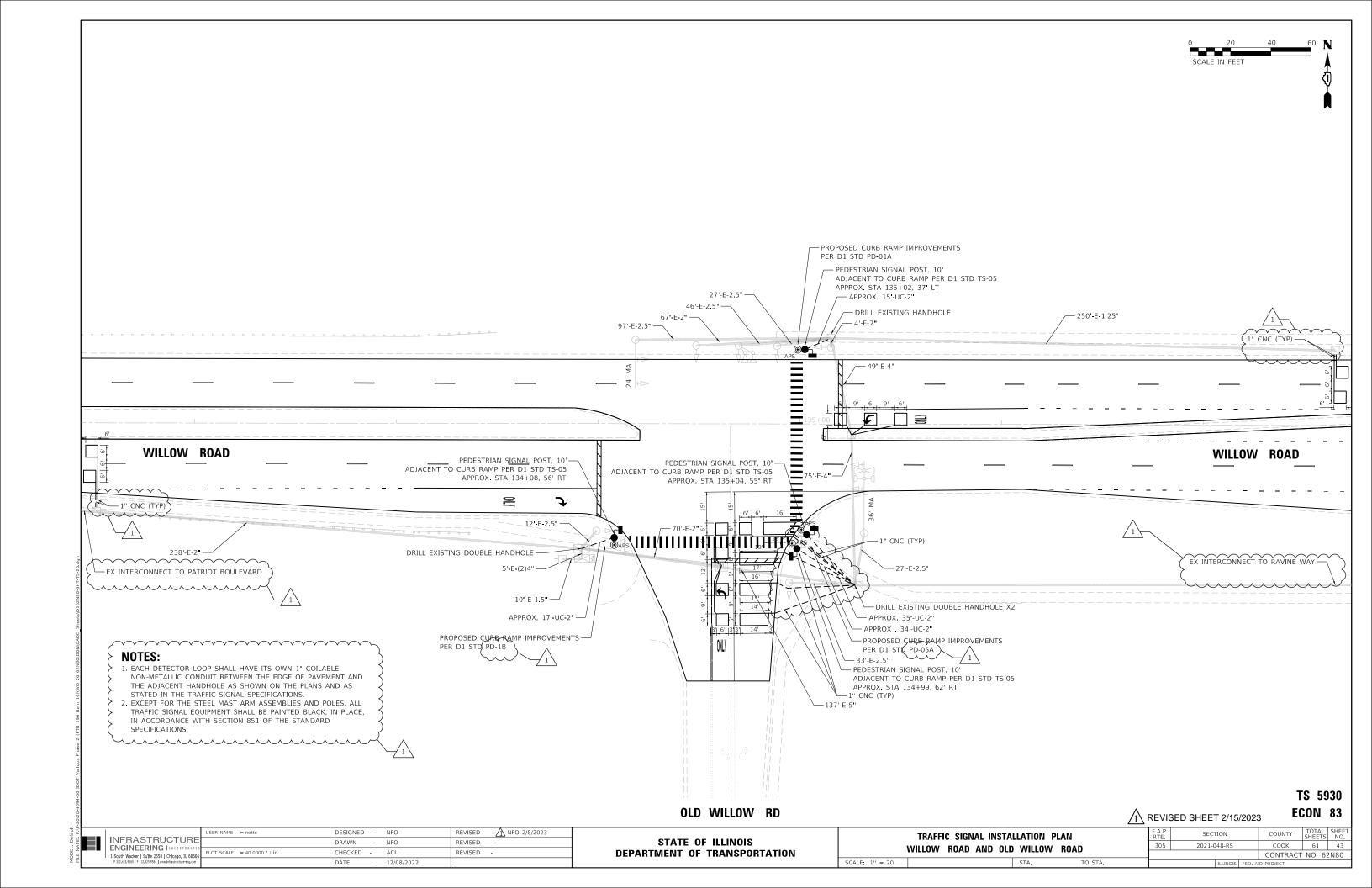
_			
	DESCRIPTION	UNIT	TOTAL
, 1	LED INTERNALLY ILLUMINATED STREET NAME SIGN	ĚÁCH	4
′ <sub>1</sub> \/ [	REMOVE EXISTING PEDESTRIAN PUSH BUTTON	EACH	6
$\stackrel{\cdot}{\wedge}$	ĔĹĔĊŤŔĬĊ ČABĹĔ ĬŇ ĊŎŇĎŨĬŤ, ŠŤŘĘĔŤ NAME ŠĬĠŇ, NO. 14 3C, ŤŶŘĔ ŞŌŎŴ	ŢŶŎŎŢ,	1423
$1 \setminus $	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	
<u>-</u>	PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT	ĚÁČH	1
$\mathbb{R} \  \   \  \   \  \   \  \   \  \   \  \ $	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1826
$\frac{1}{1}$	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	12
<u> </u>			
Į			

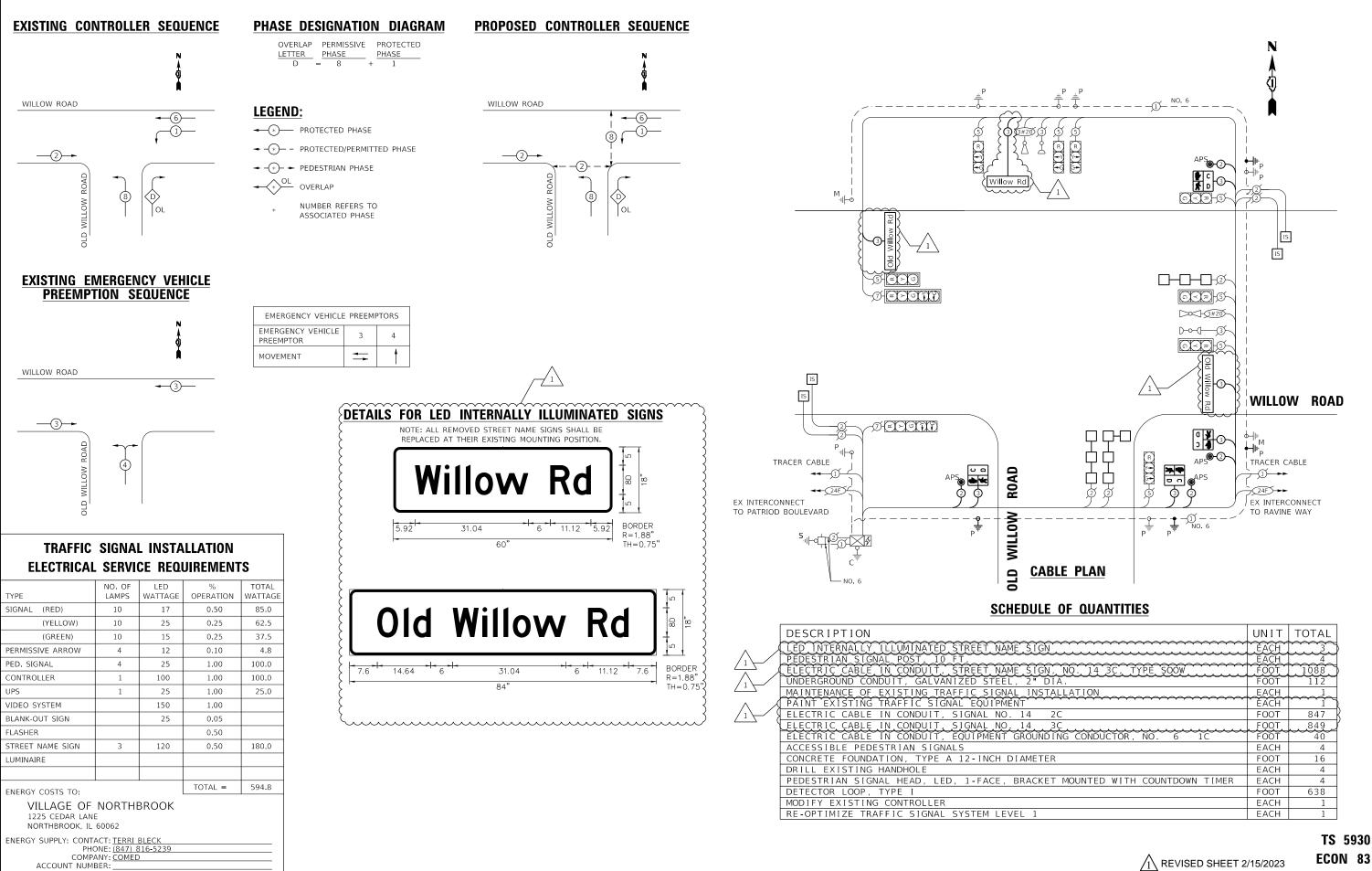
TS 5932

REVISED SHEET 2/15/2023 ECON 83

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DIAGRAM, AND EVP SEQUENCE | WILLOW ROAD & PATRIOT BOULEVARD





INFRASTRUCTURE

1 South Wacker | Suite 2650 | Chicago, IL 60606

ENGINEERING LINCORPO

REVISED - 1 NFO 2/8/2023

REVISED

REVISED

DESIGNED - NFO

NFO

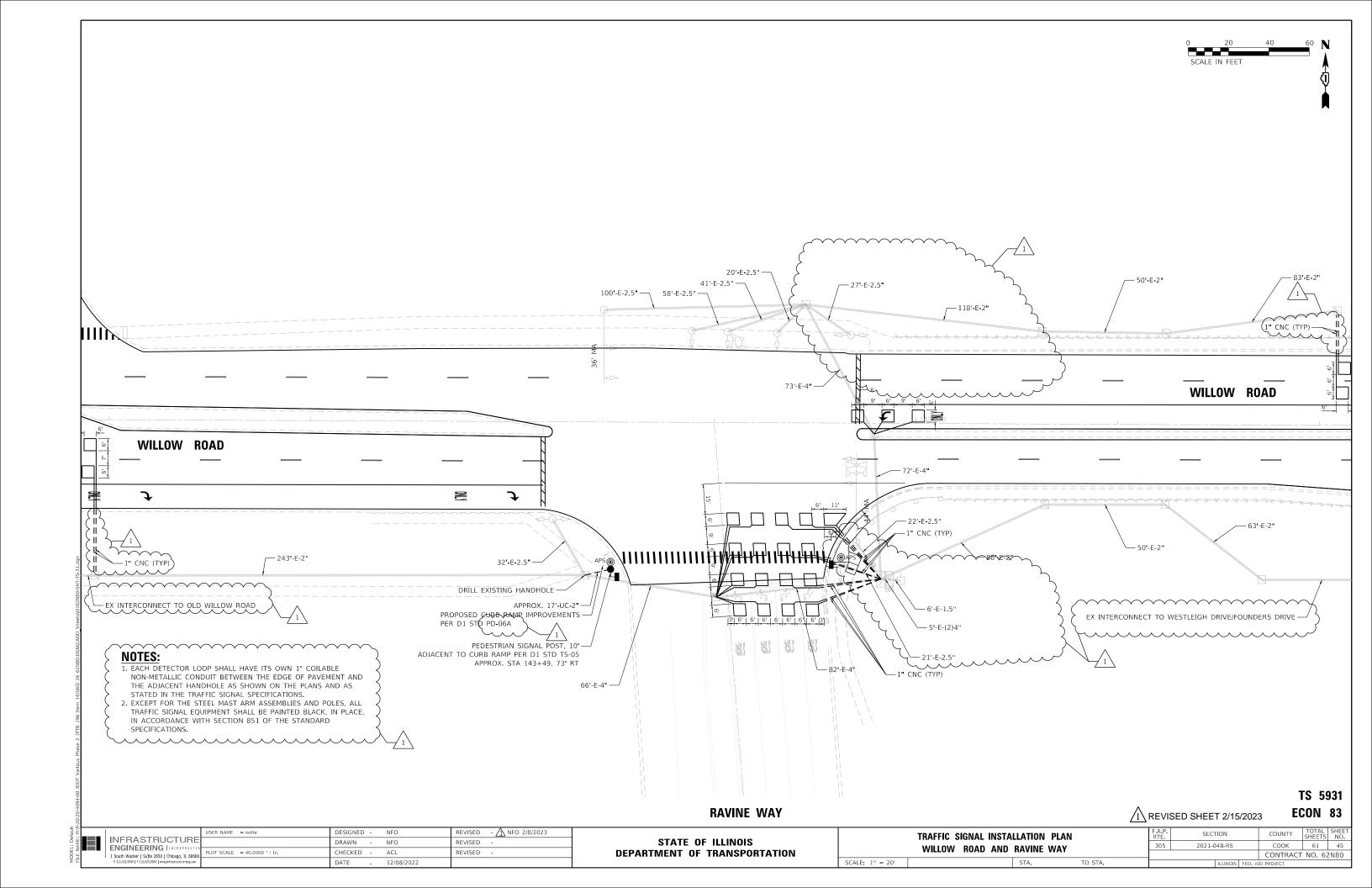
ACL

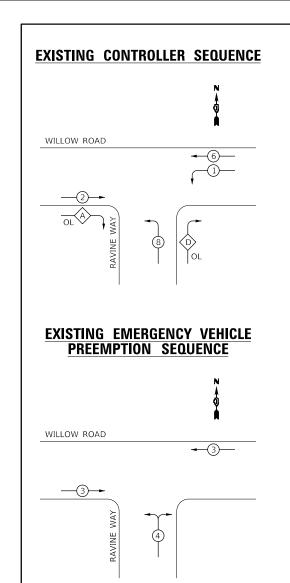
DRAWN -

HECKED -

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DIAGRAM, AND AND EVP SEQUENCE | WILLOW ROAD & OLD WILLOW ROAD 2021-048-RS COOK 61 44 CONTRACT NO. 62N80

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 





TRAFFIC SIGNAL INSTALLATION **ELECTRICAL SERVICE REQUIREMENTS** 

WATTAGE

17

25

15

12

25

100

25

150

25

120

ILLINOIS DEPARTMENT OF TRANSPORTATION

201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

PHONE: (866) 639-3532 COMPANY: COMED

OPERATION

0.25

0.25

0.10

1.00

1.00

1.00

1.00

0.05

0.50

0.50

TOTAL =

WATTAGE

102.0

75.0

45.0

9.6

50.0

100.0

25.0

180.0

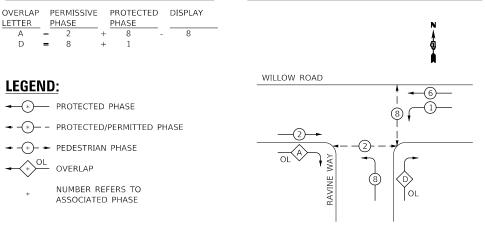
586.6

LAMPS

12

12

12



PROPOSED CONTROLLER SEQUENCE

PHASE DESIGNATION DIAGRAM

LEGEND:

\* PROTECTED PHASE

→ -(\*) - PROTECTED/PERMITTED PHASE ► PEDESTRIAN PHASE

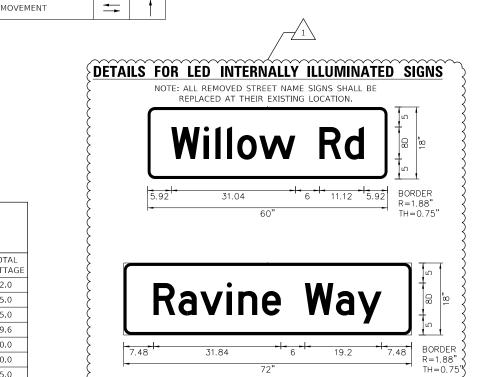
> NUMBER REFERS TO ASSOCIATED PHASE

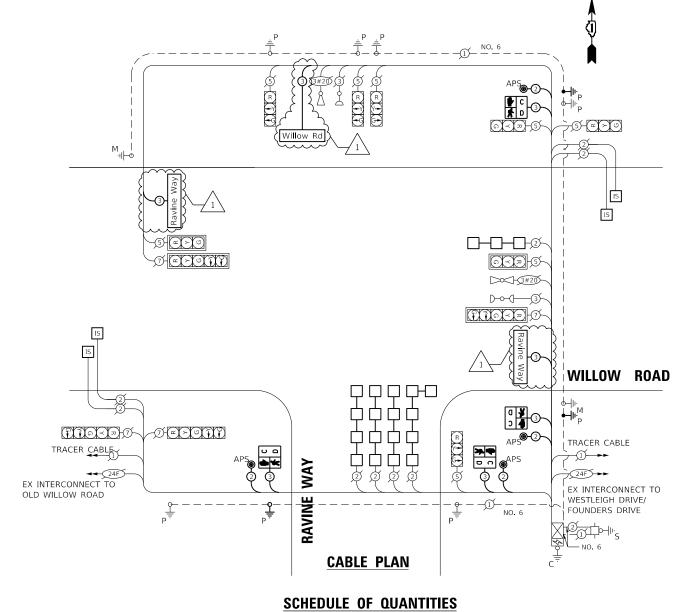
EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE

PREEMPTOR

\_\_\_\_PHASE





#### DESCRIPTION UNIT TOTAL LED INTERNALLY ILLUMINATED STREET NAME PEDESTRIAN SIGNAL POST, 10 FT. EACH ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. UNDERGROUND CONDUIT, GALVANIZED STEEL, 2° DIA. MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATIO EACH <u>ĚĽECTŘÍC ČABĽE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR</u> ACCESSIBLE PEDESTRIAN SIGNALS EACH CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER FOOT DRILL EXISTING HANDHOLE EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER DETECTOR LOOP, TYPE I MODIFY EXISTING CONTROLLER EACH EACH RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1

TS 5931

ECON 83 REVISED SHEET 2/15/2023

SIGNAL (RED)

PED. SIGNAL

CONTROLLER

VIDEO SYSTEM

FLASHER

LUMINAIRE

BLANK-OUT SIGN

STREET NAME SIGN

ENERGY COSTS TO:

DIVISION OF HIGHWAY/DISTRICT 1

ENERGY SUPPLY: CONTACT: COMED

ACCOUNT NUMBER:

UPS

(YELLOW)

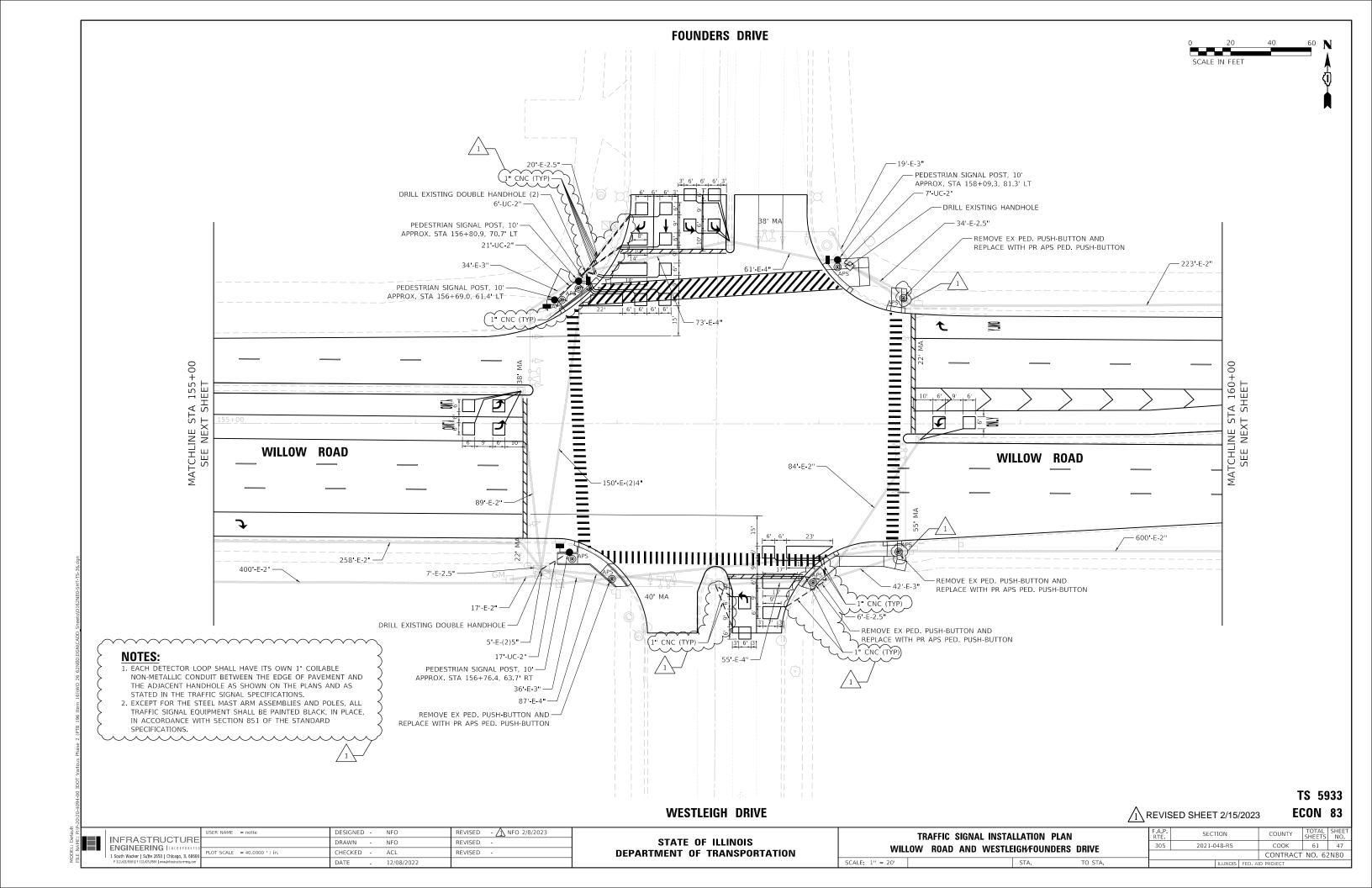
(GREEN)

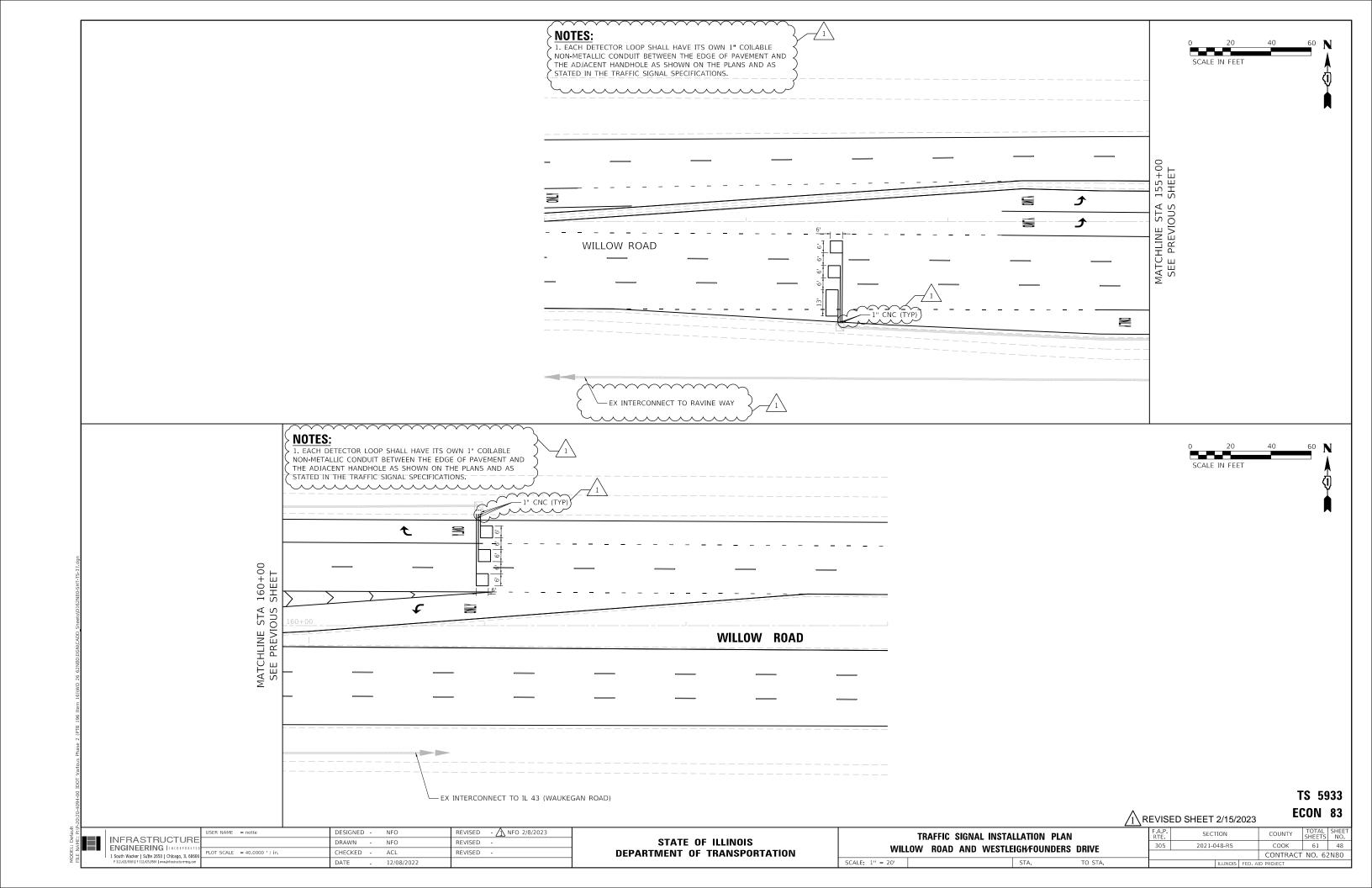
PERMISSIVE ARROW

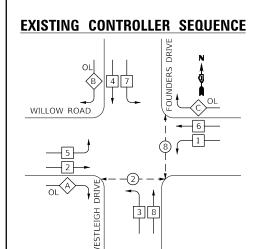
DESIGNED - NFO REVISED - 1 NFO 2/8/2023 INFRASTRUCTURE DRAWN -NFO REVISED ENGINEERING LINCORPOR HECKED -ACL REVISED 1 South Wacker | Suite 2650 | Chicago, IL 60606

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DIAGRAM, AND AND EVP SEQUENCE | WILLOW ROAD & RAVINE WAY

2021-048-RS COOK 61 46 CONTRACT NO. 62N80







#### PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
В	=	4	+	5
C	=	6	+	7

#### LEGEND:



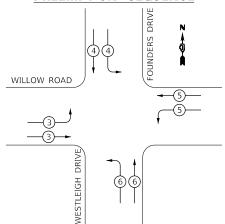


ASSOCIATED PHASE

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE → PEDESTRIAN PHASE
- OVERLAP NUMBER REFERS TO

PROPOSED CONTROLLER SEQUENCE

#### **EXISTING EMERGENCY VEHICLE** PREEMPTION SEQUENCE



TRAFFIC SIGNAL INSTALLATION **ELECTRICAL SERVICE REQUIREMENTS** 

22

22

22

WATTAGE

17

25

15

12

25

100

25

150

25

120

OPERATION

0.25

0.25

0.10

1.00

1.00

1.00

1.00

0.05

0.50

0.50

TOTAL =

WATTAGE

137.5

82.5

14.4

200.0

100.0

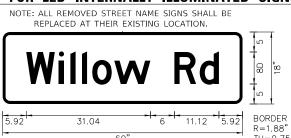
25.0

240.0

986.4

EMERGENCY	VEHICLE	PREEM	PTORS	
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	<u> </u>	1	<b>—</b>	7

#### DETAILS FOR LED INTERNALLY ILLUMINATED SIGNS



# Westleigh Dr

6 10.08 6.24 6.24 43.44

# Founders Dr

10.08 6.36 43.2 R = 1.88"

## SCHEDULE OF QUANTITIES

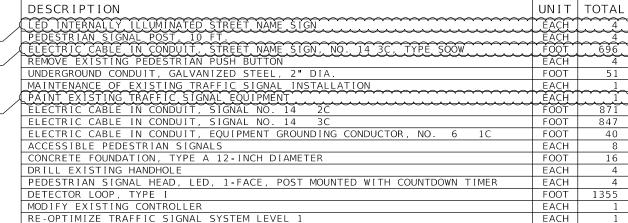
-S DOO

-Ø+□**-**□

-Ø-**П-П** -S-(TXXX)

TRACER CABLE

TO RAVINE WAY

**◄** 24F) EX INTERCONNECT 

**CABLE PLAN** 

(T)(T)(T)-(S)-

**3#20** 

**TTD-**G

IS

WILLOW ROAD

| TRACER CABLE

EX INTERCONNECT TO IL 43 (WAUKEGAN ROAD)

TS 5933

ECON 83

SIGNAL (RED)

PED. SIGNAL

CONTROLLER

VIDEO SYSTEM

LUMINAIRE

BLANK-OUT SIGN

STREET NAME SIGN

ENERGY COSTS TO:

1225 CEDAR LANE

NORTHBROOK, IL 60062

ACCOUNT NUMBER:

ENERGY SUPPLY: CONTACT: TERRI BLECK

(YELLOW)

(GREEN)

PERMISSIVE ARROW

INFRASTRUCTURE **ENGINEERING LINCO** 1 South Wacker | Suite 2650 | Chicago, IL 60606

VILLAGE OF NORTHBROOK

PHONE: (847) 816-5239 COMPANY: COMED

REVISED - 1 NFO 2/8/2023 DESIGNED -DRAWN NFO REVISED HECKED ACL REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

BORDER

R=1.88"

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DIAGRAM, AND EVP SEQUENCE | WILLOW ROAD & WESTLEIGH/FOUNDERS DRIVE

SECTION 2021-048-RS COOK 61 49 CONTRACT NO. 62N80