

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

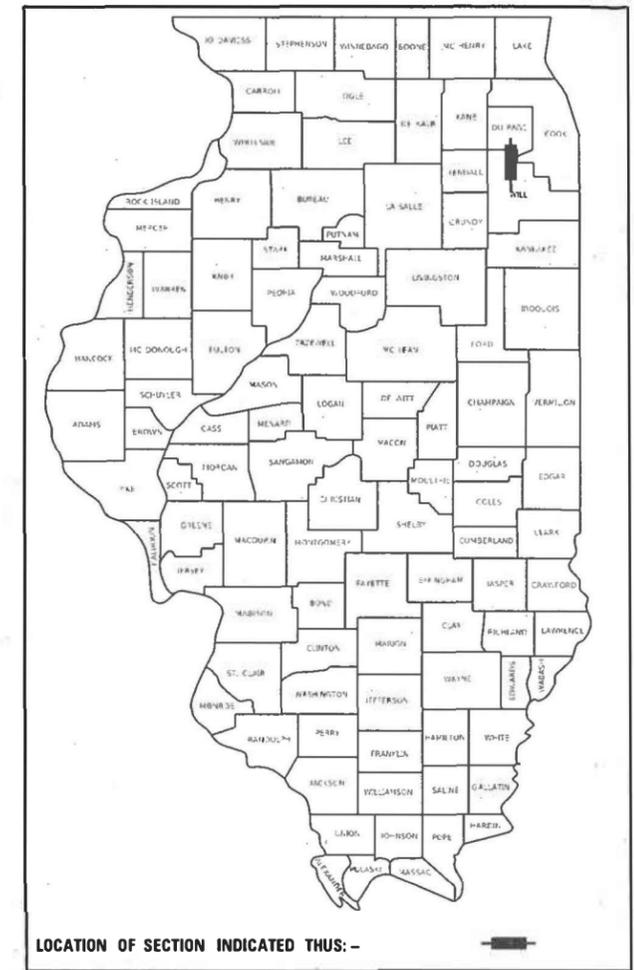
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
112	2020-137-RS	WILL	34	1
ILLINOIS CONTRACT NO. 62M15			* 34 + 7 = 41 TOTAL SHEETS	

FOR INDEX OF SHEETS AND HIGHWAY STANDARDS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN THE VILLAGES OF BOLINGBROOK AND ROMEVILLE

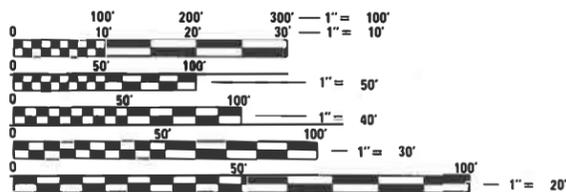
**PROPOSED
HIGHWAY PLANS**
FAP ROUTE 112: IL 53 (BOLINGBROOK DRIVE)
SOUTH OF I-55 TO JOLIET ROAD
SECTION: 2020-137-RS
PROJECT: NHPP-L1Y1(723)
SMART OVERLAY, ADA IMPROVEMENTS
WILL COUNTY
C-91-335-20

D-91-537-20



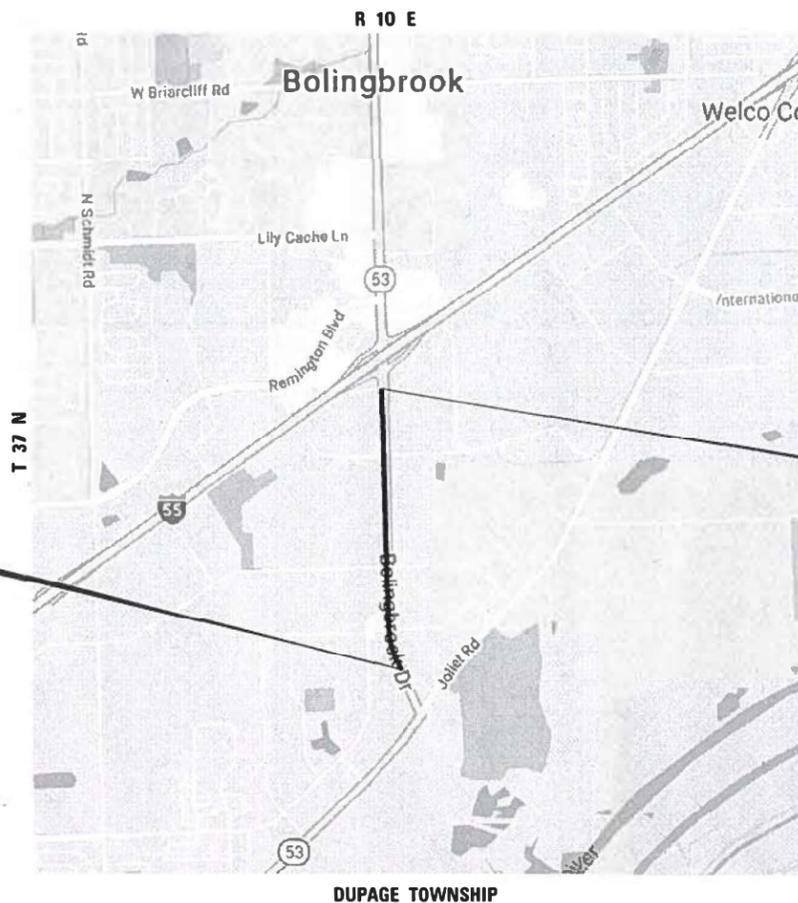
TRAFFIC DATA

2019 ADT = 10,450 VPD
POSTED SPEED LIMIT = 40 MPH



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 BEGINS
STA 19 + 72

PROJECT ENDS
STA 73 + 65



Alex Lane
ALEXANDER CARL LANE, P.E.
IL LIC. NO. 062-063261
EXP: 11/30/2021
DATE: 1/20/2020

GROSS LENGTH = 5,393 FT. = 1.02 MILE
NET LENGTH = 5,393 FT. = 1.02 MILE

PROJECT ENGINEER: VESELIN VELICHKOV (847) 705-4432
PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 62M15

INFRASTRUCTURE ENGINEERING | INCORPORATED
1 South Wacker | Suite 2650 | Chicago, IL 60606
P 312.425.5566 | F 312.425.5564 | www.infrastructure-esg.com
CONTACT: ALEXANDER LANE (312) 477-0620

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SUBMITTED February 9, 2021
Jose Rios (CRAB)
REGIONAL ENGINEER
March 19, 2021
S. A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT
March 19, 2021
Gemma J. Gu
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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PAY ITEM NUMBER	DESIGNATION	UNIT	CONSTRUCTION CODE		
			URBAN		
			TOTAL QUANTITY	80% FEDERAL 20% STATE	100% STATE
* 20200100	EARTH EXCAVATION	CU YD	4	4	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	19	19	
25200110	SODDING, SALT TOLERANT	SQ YD	19	19	
25200200	SUPPLEMENTAL WATERING	UNIT	1	1	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	6	6	
28000510	INLET FILTERS	EACH	1	1	
35101400	AGGREGATE BASE COURSE, TYPE B	TON	10	10	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	24,307	24,307	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	TON	90	90	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	330	330	
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	178	178	
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	1,121	1,121	
40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80	TON	4,819	4,819	
42001300	PROTECTIVE COAT	SQ YD	226	226	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1,260	1,260	
42400800	DETECTABLE WARNINGS	SQ FT	180	180	
44000100	PAVEMENT REMOVAL	SQ YD	3	3	
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	35,313	35,313	
44000600	SIDEWALK REMOVAL	SQ FT	1,133	1,133	
44002207	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 1 3/4"	SQ YD	1,810	1,810	
44003100	MEDIAN REMOVAL	SQ FT	325	325	
44200050	WELDED WIRE REINFORCEMENT	SQ YD	55	55	
44200990	CLASS B PATCHES, TYPE I, 12 INCH	SQ YD	3	3	

PAY ITEM NUMBER	DESIGNATION	UNIT	CONSTRUCTION CODE		
			URBAN		
			TOTAL QUANTITY	80% FEDERAL 20% STATE	100% STATE
44200994	CLASS B PATCHES, TYPE II, 12 INCH	SQ YD	11	11	
44200998	CLASS B PATCHES, TYPE III, 12 INCH	SQ YD	28	28	
44201000	CLASS B PATCHES, TYPE IV, 12 INCH	SQ YD	28	28	
44201785	CLASS D PATCHES, TYPE I, 12 INCH	SQ YD	69	69	
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	456	456	
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	228	228	
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	342	342	
44201798	CLASS D PATCHES, TYPE I, 13 INCH	SQ YD	112	112	
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SQ YD	743	743	
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SQ YD	372	372	
44201809	CLASS D PATCHES, TYPE IV, 13 INCH	SQ YD	583	583	
44213200	SAW CUTS	FOOT	307	307	
60255500	MANHOLES TO BE ADJUSTED	EACH	12	12	
60260100	INLETS TO BE ADJUSTED	EACH	58	58	
60266600	VALVE BOXES TO BE ADJUSTED	EACH	2	2	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	30	30	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3	
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1	
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1	
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	3	3	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12	
67100100	MOBILIZATION	L SUM	1	1	
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2	2	

* = SPECIALTY ITEM

MODEL Path: \\P:\2020\4094-00 IDOT\Work Order\02\DC\DCADD_Sheets\162115-SHT-500-01.dgn
FILE NAME: P:\2020\4094-00 IDOT\Work Order\02\DC\DCADD_Sheets\162115-SHT-500-01.dgn

INFRASTRUCTURE ENGINEERING INCORPORATED
1 South Wacker | Suite 2650 | Chicago, IL 60606
P: 312.425.8588 | F: 312.425.8584 | www.infrastructure-eng.com

USER NAME = ALane	DESIGNED - MAS	REVISED - KEK 4/5/2021
PLOT SCALE = 20,0000 * / in.	DRAWN - KEK	REVISED -
PLOT DATE = 3/3/2021	CHECKED - ACL	REVISED -
	DATE - 03/03/2021	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL-53 (I-55 TO JOLIET RD)**

SCALE: NTS

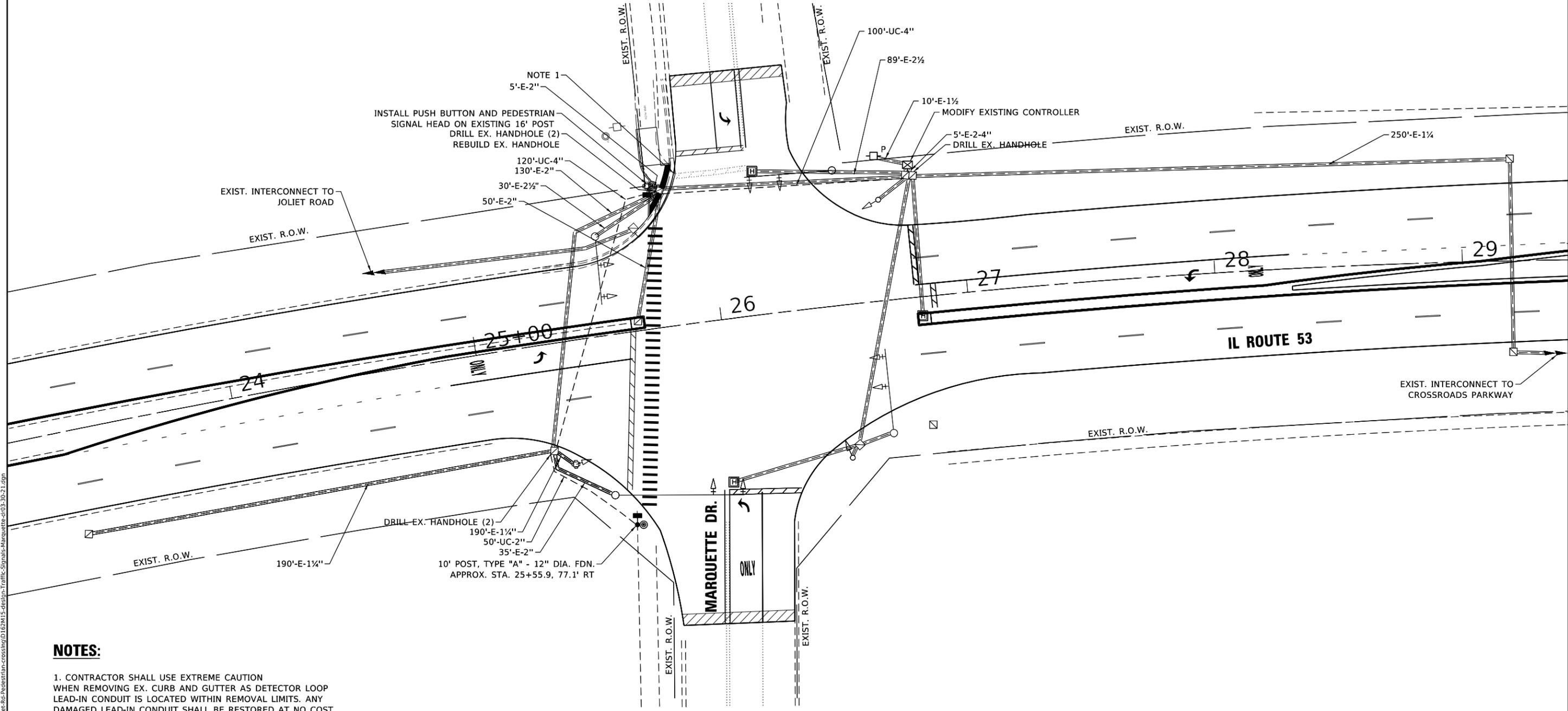
STA.

TO STA.

REVISED SHEET 4/7/2021

REV-SEP

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
112	2020-137-R5	WILL	34	3
CONTRACT NO. 62M15				
ILLINOIS FED. AID PROJECT				



NOTES:

1. CONTRACTOR SHALL USE EXTREME CAUTION WHEN REMOVING EX. CURB AND GUTTER AS DETECTOR LOOP LEAD-IN CONDUIT IS LOCATED WITHIN REMOVAL LIMITS. ANY DAMAGED LEAD-IN CONDUIT SHALL BE RESTORED AT NO COST TO THE DEPARTMENT.
2. PEDESTRIAN EQUIPMENT LOCATION ARE DESIGNED TO BE ADA COMPLIANT AND ANY DEVIATION FROM THE PLAN SHALL BE APPROVED BY THE ENGINEER.

TS SHT NO. 01

MODEL: D:\dft\11... FILE NAME: S:\WP\Design\KIN\House\Design\2M15_IL_53\Resur\155_to_Joliet_Rd_Pedestrian_Crossing\01_E2M15_dedign_Traffic_Signals_Marquette-dr03-30-21.dgn

**TS W0079
ECON 68**

USER NAME = koby/kaka	DESIGNED - KK	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - KK	REVISED -
PLOT DATE = 3/31/2021	CHECKED - LP	REVISED -
	DATE - 03-30-2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

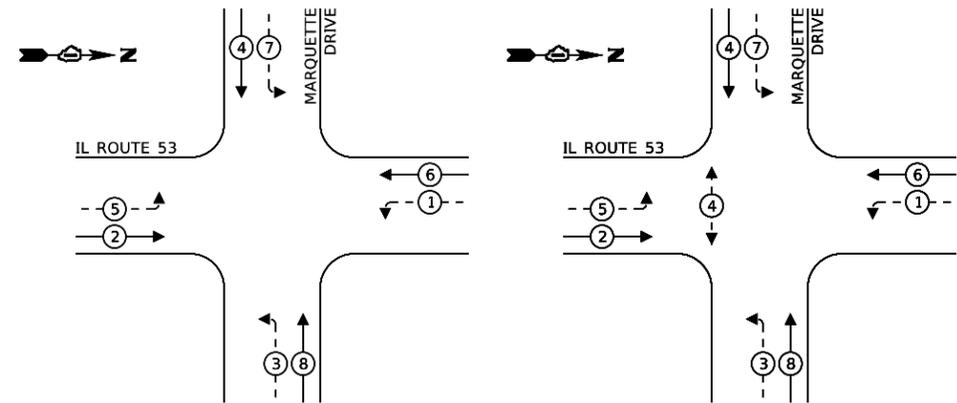
**TRAFFIC SIGNAL MODERNIZATION PLAN
IL ROUTE 53 AT MARQUETTE DR**

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

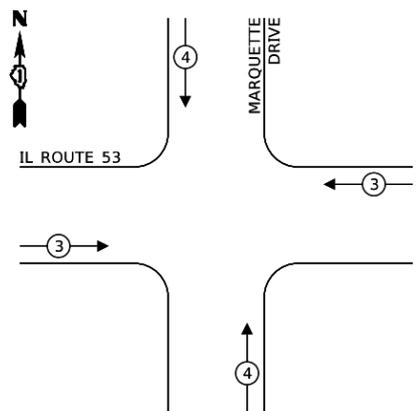
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
112	2020-137-R5	WILL	34	19A
CONTRACT NO. 62M15				
ILLINOIS FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE

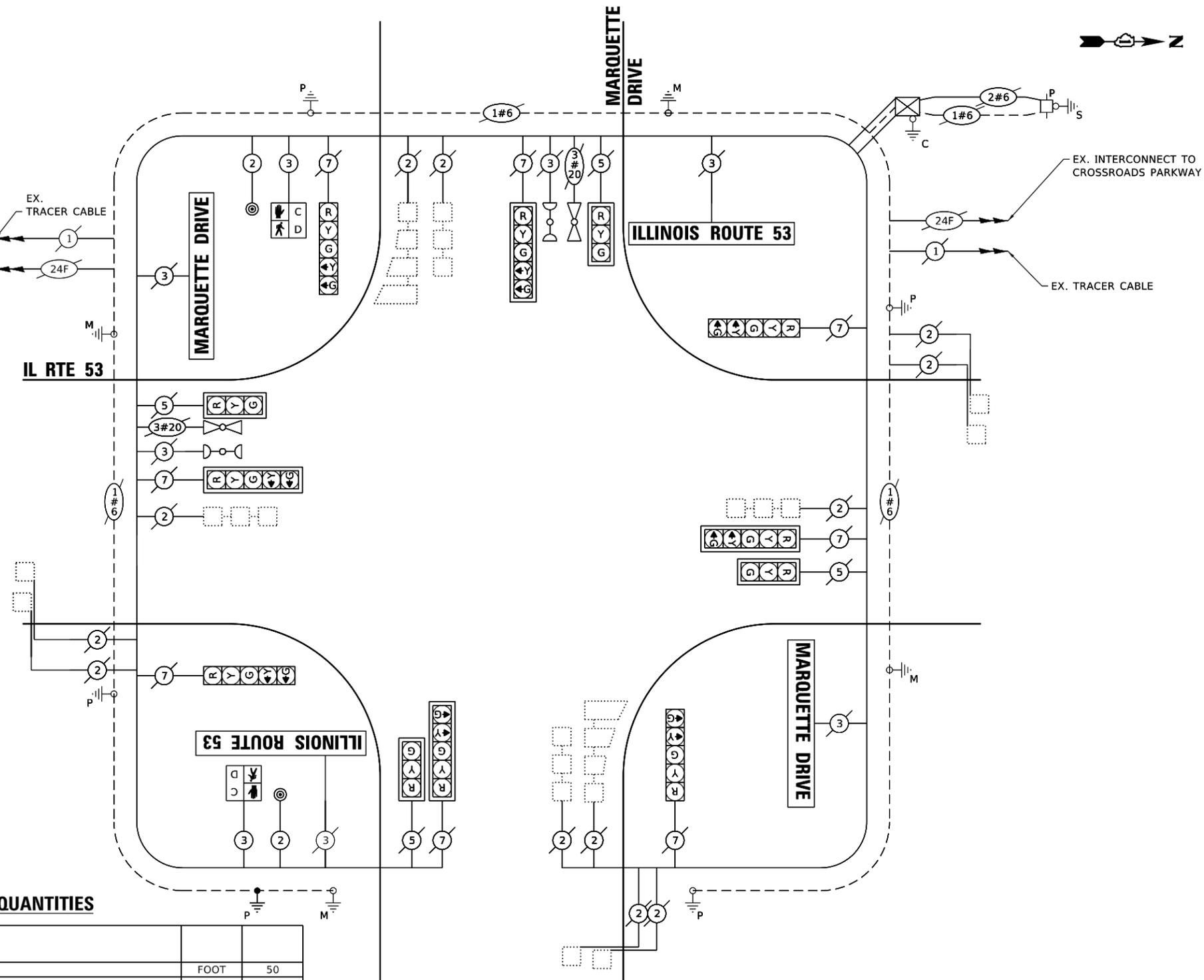
PROPOSED CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



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
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	4	120	50	240.0
LUMINAIRE	-	-	-	-
TOTAL =				538.8

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	50
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	220
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	480
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	490
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	65
DRILL EXISTING HANDHOLE	EACH	5
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN PUSH-BUTTON	EACH	2
MODIFY EXISTING CONTROLLER	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REBUILD EXISTING HANDHOLE	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTRAL COURT
 SCHAUMBURG, IL 60196-1096
 ENERGY SUPPLY: CONTACT: TIM COSLET
 PHONE: (815)-724-5010
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

USER NAME = koby/kaka	DESIGNED - KK	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - KK	REVISED -
PLOT DATE = 3/31/2021	CHECKED - LP	REVISED -
	DATE - 03-30-2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 53 AT MARQUETTE DR**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 112	SECTION 2020-137-R5	COUNTY WILL	TOTAL SHEETS 34	SHEET NO. 19B
CONTRACT NO. 62M15				
ILLINOIS FED. AID PROJECT				

**TS W0079
ECON 68**

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