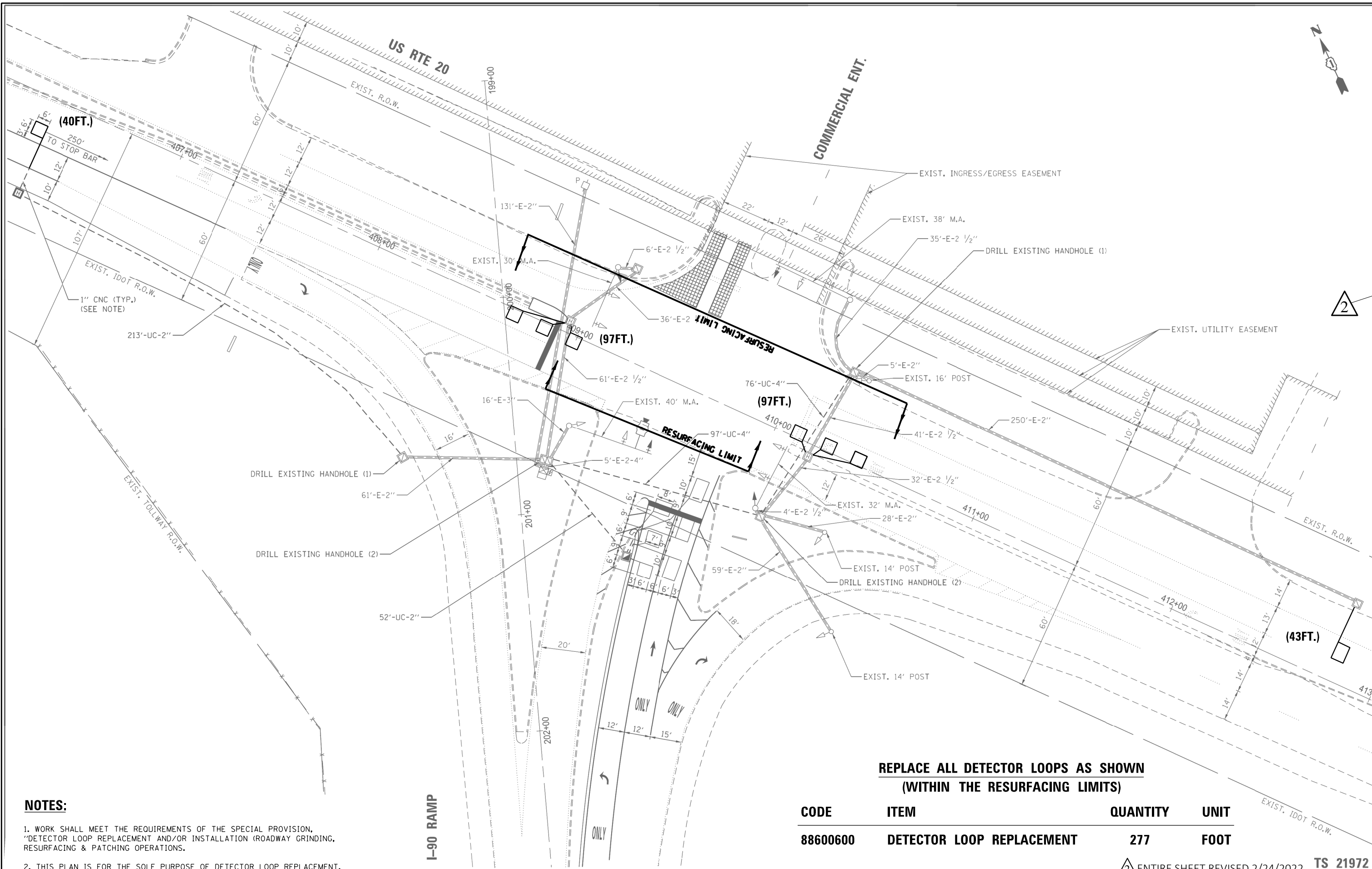




2



TS SHT NO. 10

NOTES:

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.

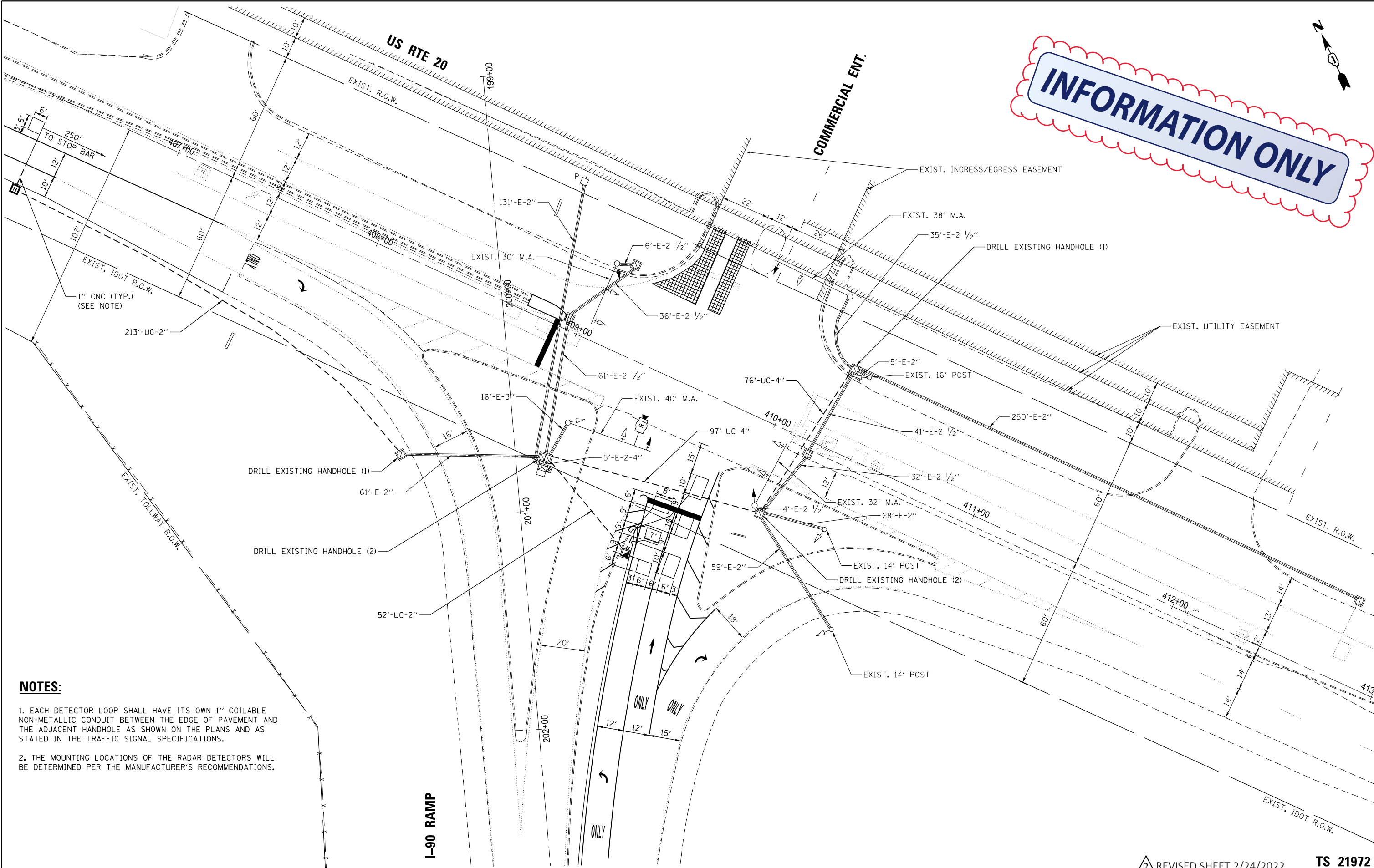
**REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	277	FOOT

ENTIRE SHEET REVISED 2/24/2022 **TS 21972**

FILE NAME =	USER NAME = nguyensm	DESIGN - Steven M. Nguyen	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLAN US RTE 20 AT I-90 RAMP	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\WP\Design\SN\B.of Design - Detector	Loops Replacement - Resurfacing project - S	DRAWN - ADA - Dongchun Ma	REVISED -			525	2020-112-R5	KANE	50	24
PLOT SCALE = 40.0000' / in.	CHECKED - Steven M. Nguyen	REVISED -				CONTRACT NO. 62L90				
Default	PLOT DATE = 2/23/2022	DATE - 01/27/2021	REVISED -			ILLINOIS FED. AID PROJECT				

INFORMATION ONLY



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. THE MOUNTING LOCATIONS OF THE RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.

TS SHT NO. 10

FILE NAME =	10 - Signal US20 I-90.dgn
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USER NAME = dschnebel	DESIGNED - DMS	REVISD -
PLOT SCALE = 40.0000' / in.	DRAWN - DMS	REVISD -
PLOT DATE = 4/2/2018	CHECKED - LRA	REVISD -
	DATE - 04/02/2018	REVISD -



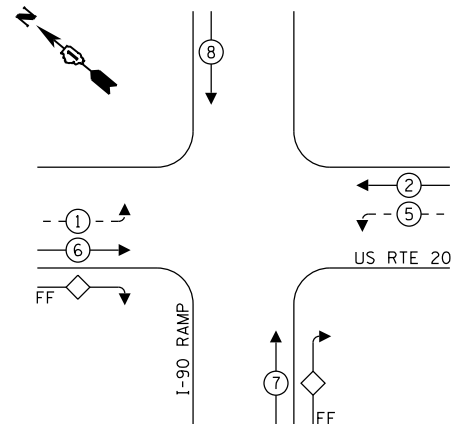
9575 West Higgins Road, Suite 400
 Rosemont, Illinois 60018
 P: (847) 518-9990 F: (847) 518-9987
 PROJECT # 16-190

**TRAFFIC SIGNAL MODIFICATION PLAN
 US RTE 20 AND I-90 RAMP**

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

2 REVISED SHEET 2/24/2022		TS 21972	
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS SHEET NO.
525	2020-112-RS	KANE	50 25
			CONTRACT NO. 62L90
ILLINOIS FED. AID PROJECT			

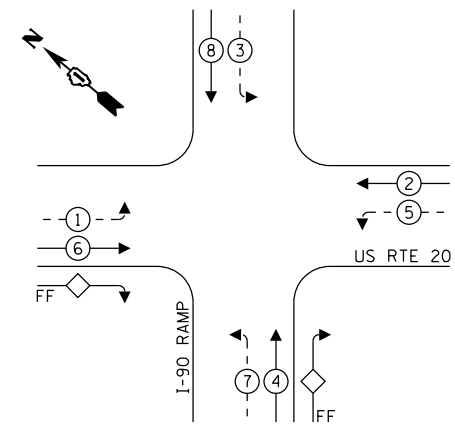
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ← * → PROTECTED PHASE
- ← * - - → PROTECTED/PERMITTED PHASE
- ◊ FF FREE FLOW

PROPOSED CONTROLLER SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				444.8

ENERGY COSTS TO:

HAMPSHIRE TOWNSHIP
170 MILL AVE
HAMPSHIRE, IL 60140

ENERGY SUPPLY: CONTACT: MS. RENEE MAZARIEGOS
PHONE: X
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 3297106018

FILE NAME =
11 - Cable US20 I-90.dgn

USER NAME = dschnebel
DRAWN - DMS
PLOT SCALE = 40.0000' / in.
PLOT DATE = 4/2/2018

DESIGNED - DMS
CHECKED - LRA
DATE - 04/02/2018

REVISED -
REVISED -
REVISED -
REVISED -



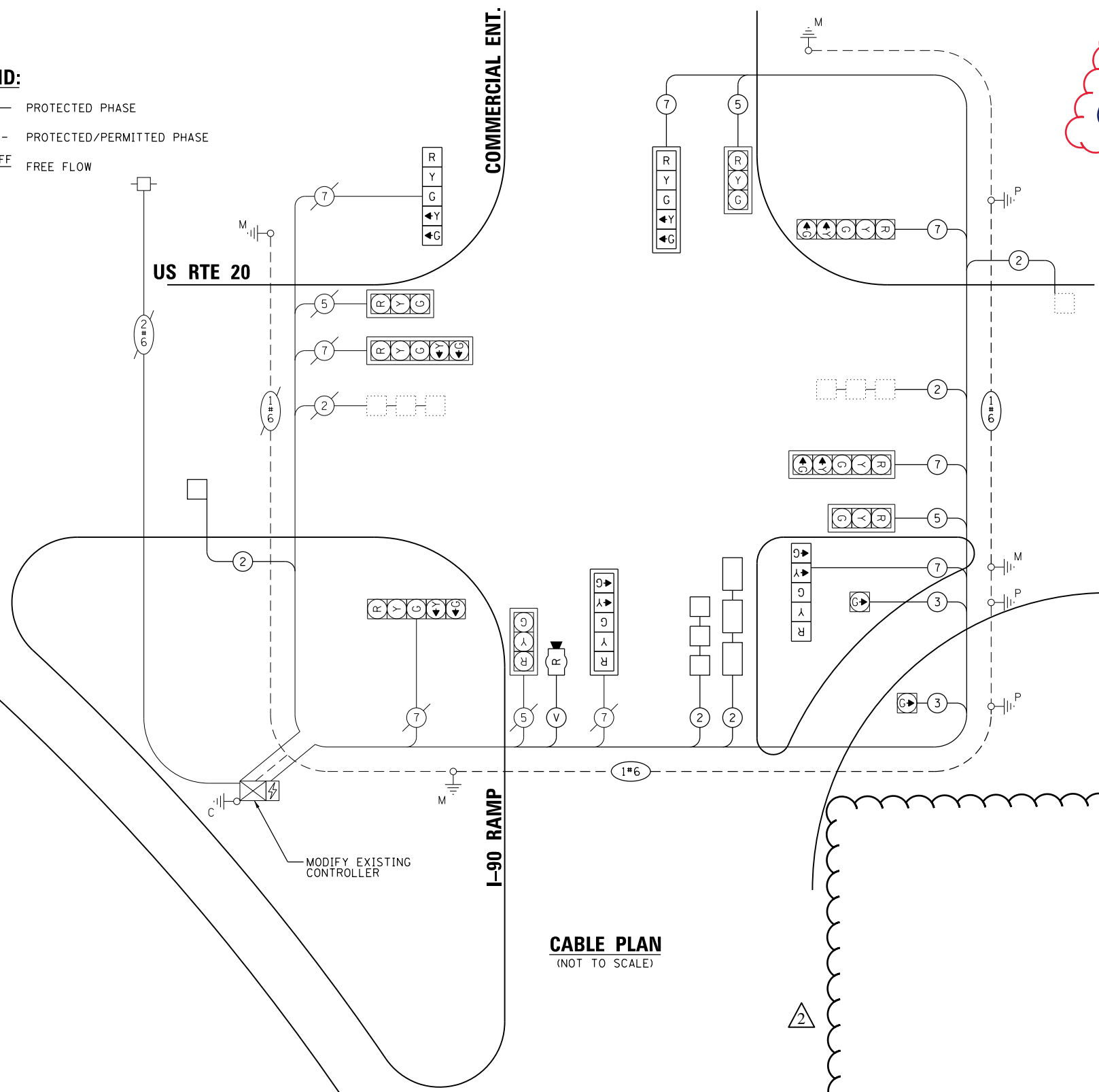
9575 West Higgins Road, Suite 400
Rosemont, Illinois 60018
P: (847) 518-9990 F: (847) 518-9987
PROJECT # 16-190

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES US RTE 20 AND I-90 RAMP

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	2020-112-RS	KANE	50	26
CONTRACT NO. 62L90				
ILLINOIS FED. AID PROJECT				

INFORMATION ONLY



CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 11

REVISED SHEET 2/24/2022

TS 21972