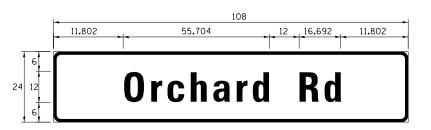
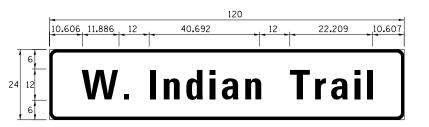


SIGN PANEL - TYPE 1

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	18.0	2	ZZ	2



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
С	20.0	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME

SCHEDULE OF QUANTITIES

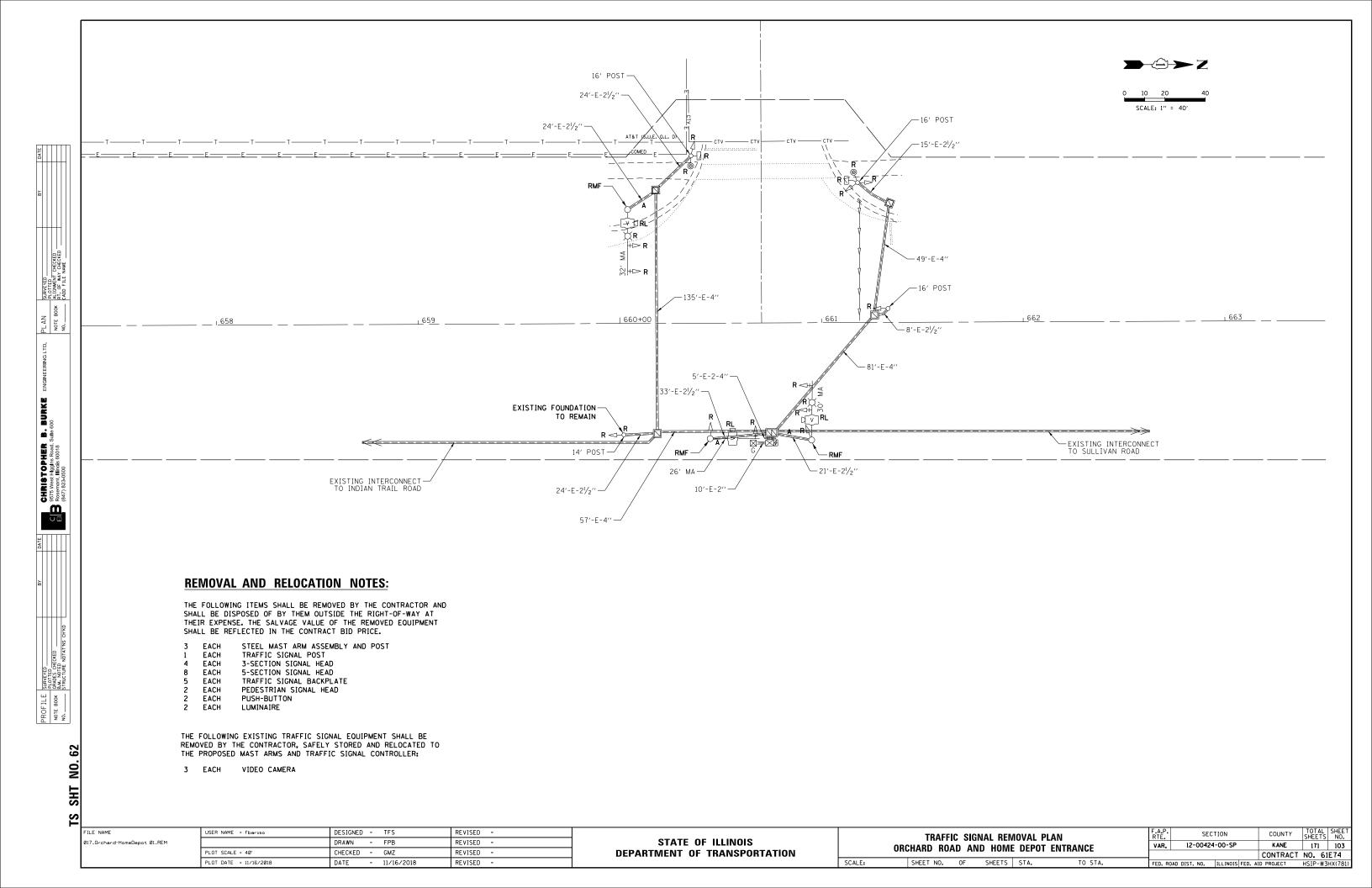
ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	78.8
SIGN PANEL - TYPE 2	SQ FT	76.0
UNDERGROUND CONDUIT, PVC. 3" DIA.	FOOT	233.0
UNDERGROUND CONDUIT, PVC. 4" DIA.	FOOT	384.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	2,985.0
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1.0
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	4.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	808.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	850.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,857.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,069.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	618.5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	3.0
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	2.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 66 FT.	EACH	2.0
CONCRETE FOUNDATION, TYPE A	FOOT	20.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30.0
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	50.0
DRILL EXISTING HANDHOLE	EACH	16.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2.0
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4.0
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4.0
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2.0
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2.0
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6.0
TRAFFIC SIGNAL BACKPLATE	EACH	10.0
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	12.0
PEDESTRIAN PUSH-BUTTON	EACH	6.0
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8,204.5
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6.0
RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1.0
* ROD AND CLEAN EXISTING CONDUIT	FOOT	500.0
OUTDOOR RATED NETWORK CABLE	FOOT	97.5
TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	1.0
LUMINAIRE, LED, HORIZONTAL MOUNT, 190 WATT (SPECIAL)	EACH	4.0
PEDESTRIAN PUSH-BUTTON POST, TYPE A	EACH	1.0
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1.0
RELOCATE EXISTING PTZ CAMERA	EACH	1.0
*Nominal Quantity to be Used as Directed by the Engineer		

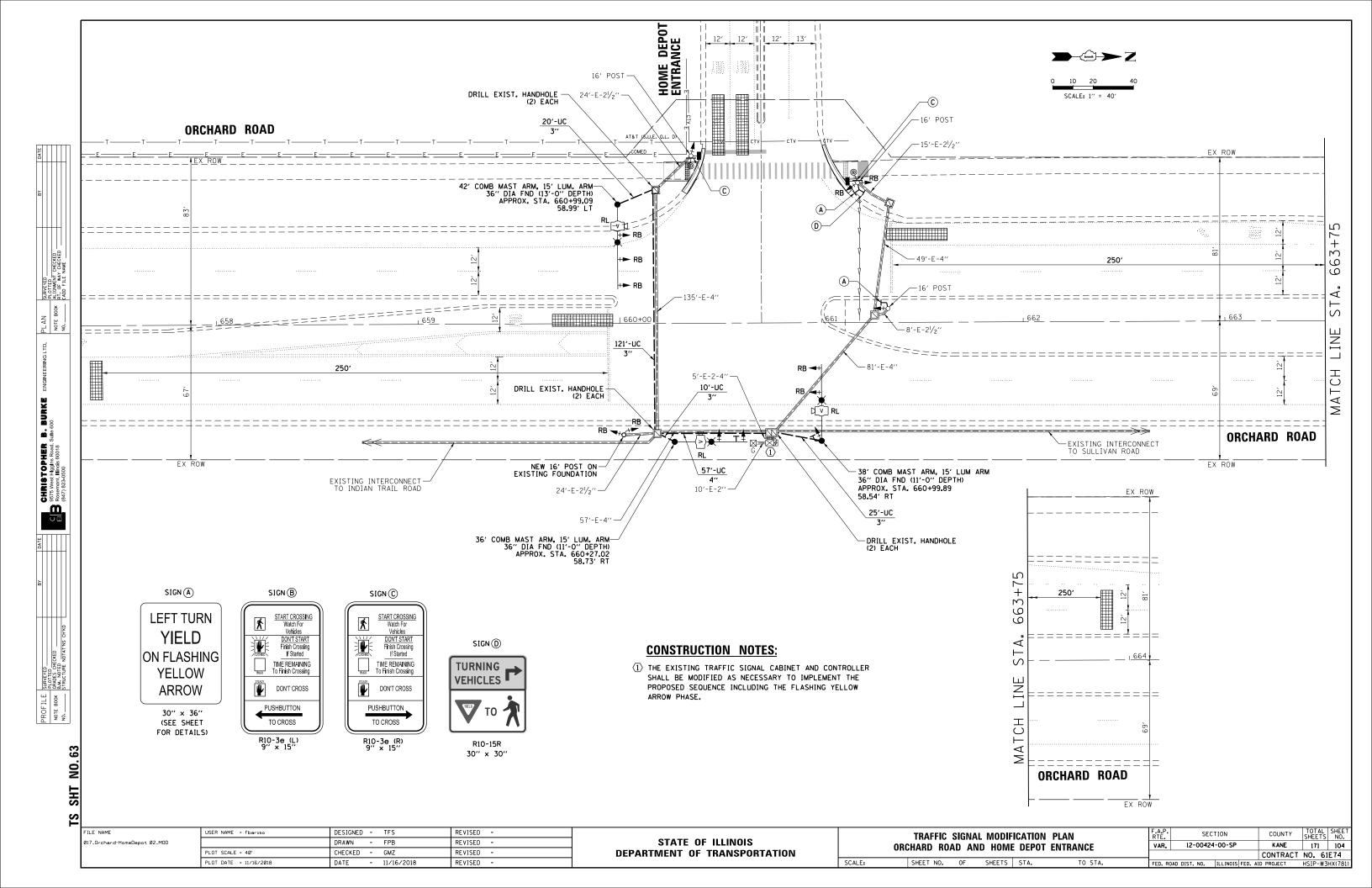
USER NAME = fbariso DESIGNED - TFS REVISED -DRAWN - FPB 016_Orchard-Indian Trail 03_CAB-2 REVISED -PLOT SCALE = 40' CHECKED - GMZ REVISED -PLOT DATE = 11/16/2018 DATE - 11/16/2018 REVISED -

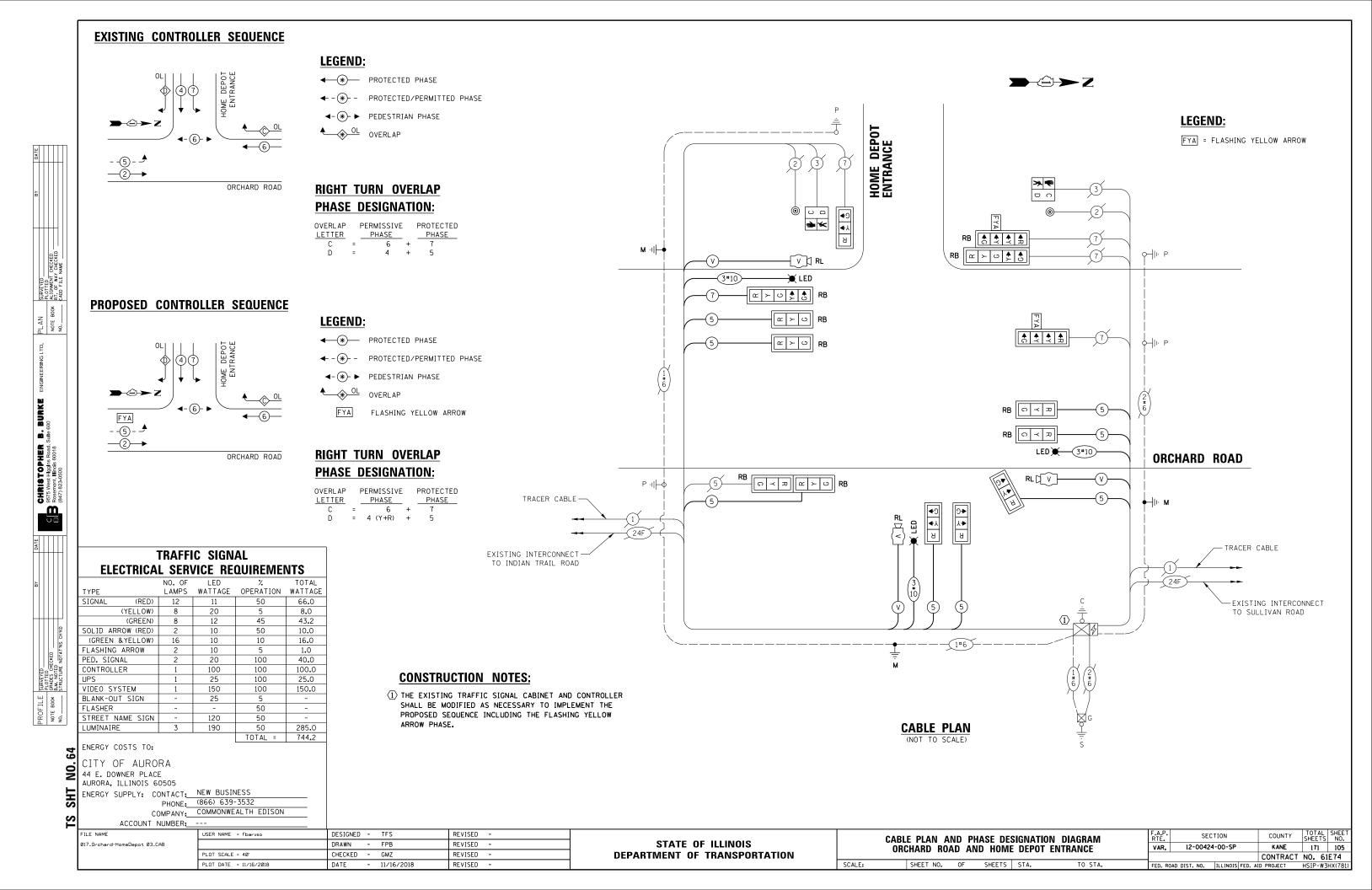
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCALE:

SCHEDULE OF QUANTITIES SECTION COUNTY AND MAST ARM MOUNTED STREET NAME SIGN ORCHARD ROAD AND INDIAN TRAIL ROAD 12-00424-00-SP KANE 171 102 VAR. CONTRACT NO. 61E74 SHEET NO. OF SHEETS STA.

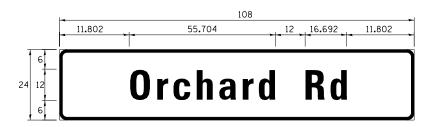






SIGN PANEL – TYPE 1

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	18.0	2	ZZ	1

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

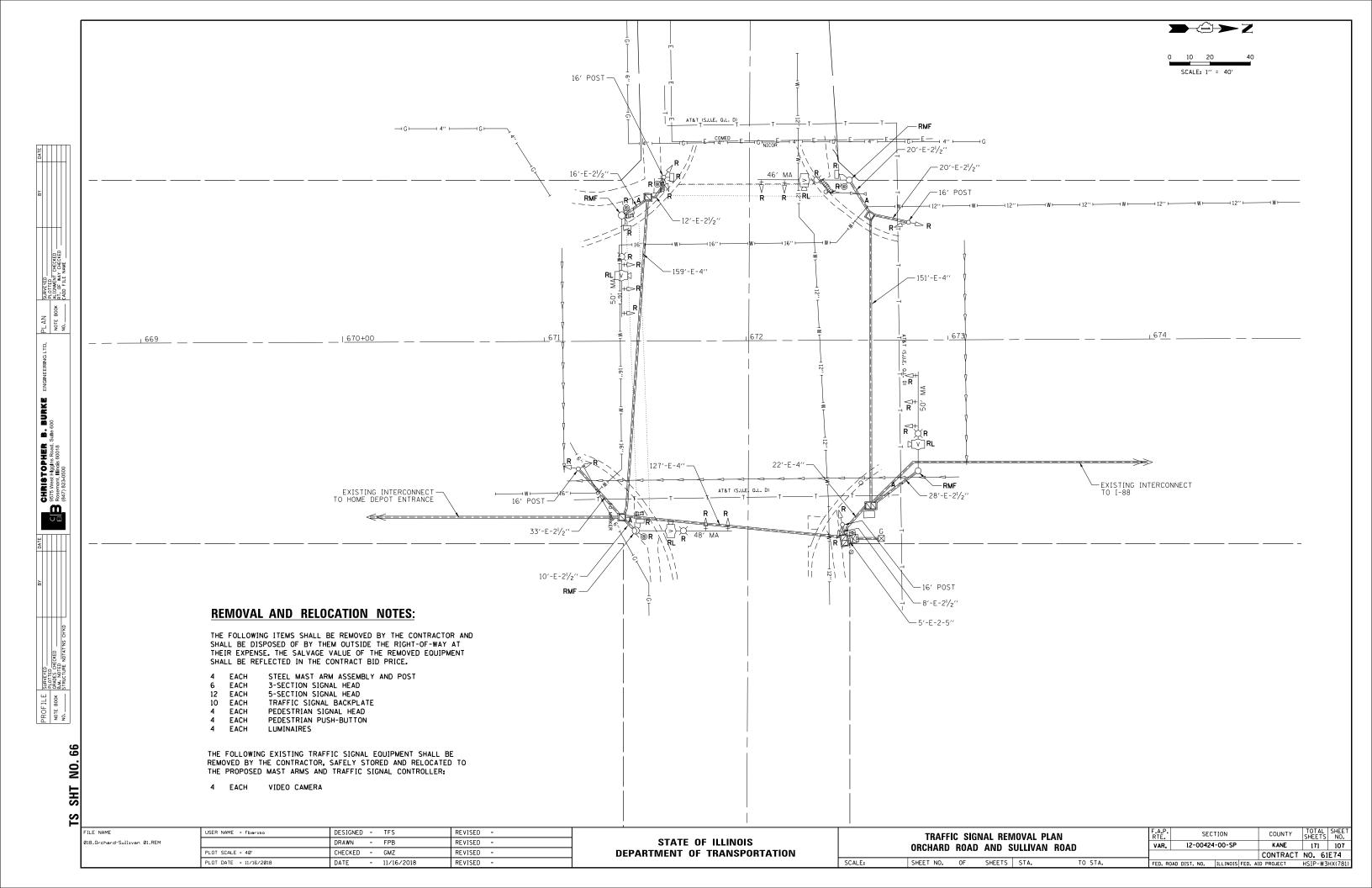
SCHEDULE OF QUANTITIES

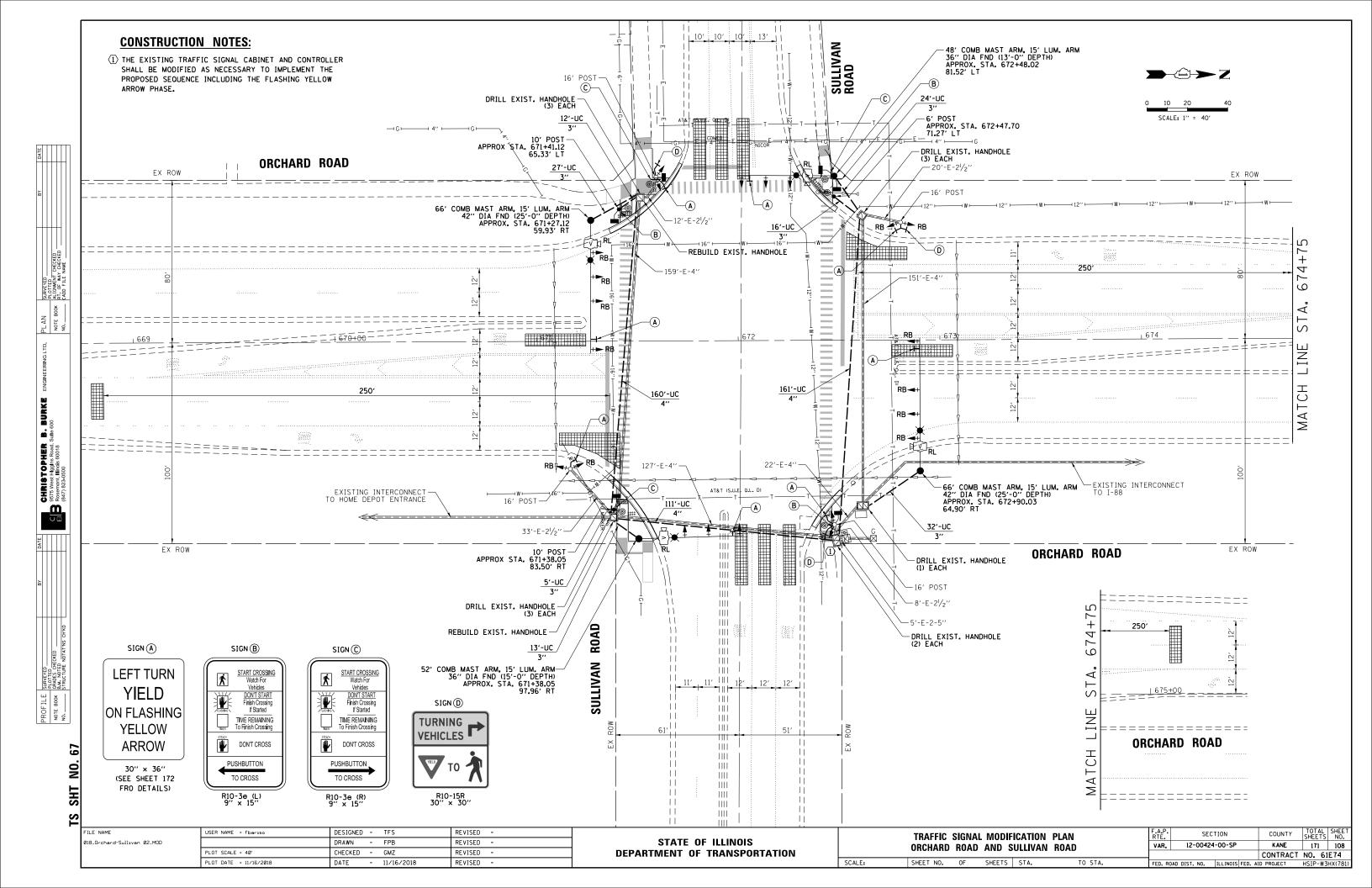
ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	21.3
SIGN PANEL - TYPE 2	SQ FT	18.0
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	102.0
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	121.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	1,668.0
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1.0
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	5.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,153.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	274.5
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	553.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	35.0
DRILL EXISTING HANDHOLE	EACH	5.0
DRILL EXISTING HEAVY DUTY HANDHOLE	EACH	6.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4.0
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2.0
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1.0
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1.0
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2.0
TRAFFIC SIGNAL BACKPLATE	EACH	4.0
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	10.0
PEDESTRIAN PUSH-BUTTON	EACH	2.0
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,266.5
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3.0
RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1.0
* ROD AND CLEAN EXISTING CONDUIT	FOOT	375.0
TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	1.0
LUMINAIRE, LED, HORIZONTAL MOUNT, 190 WATT (SPECIAL)	EACH	3.0
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1.0
*Nominal Quantity to be Used as Directed by the Engineer		

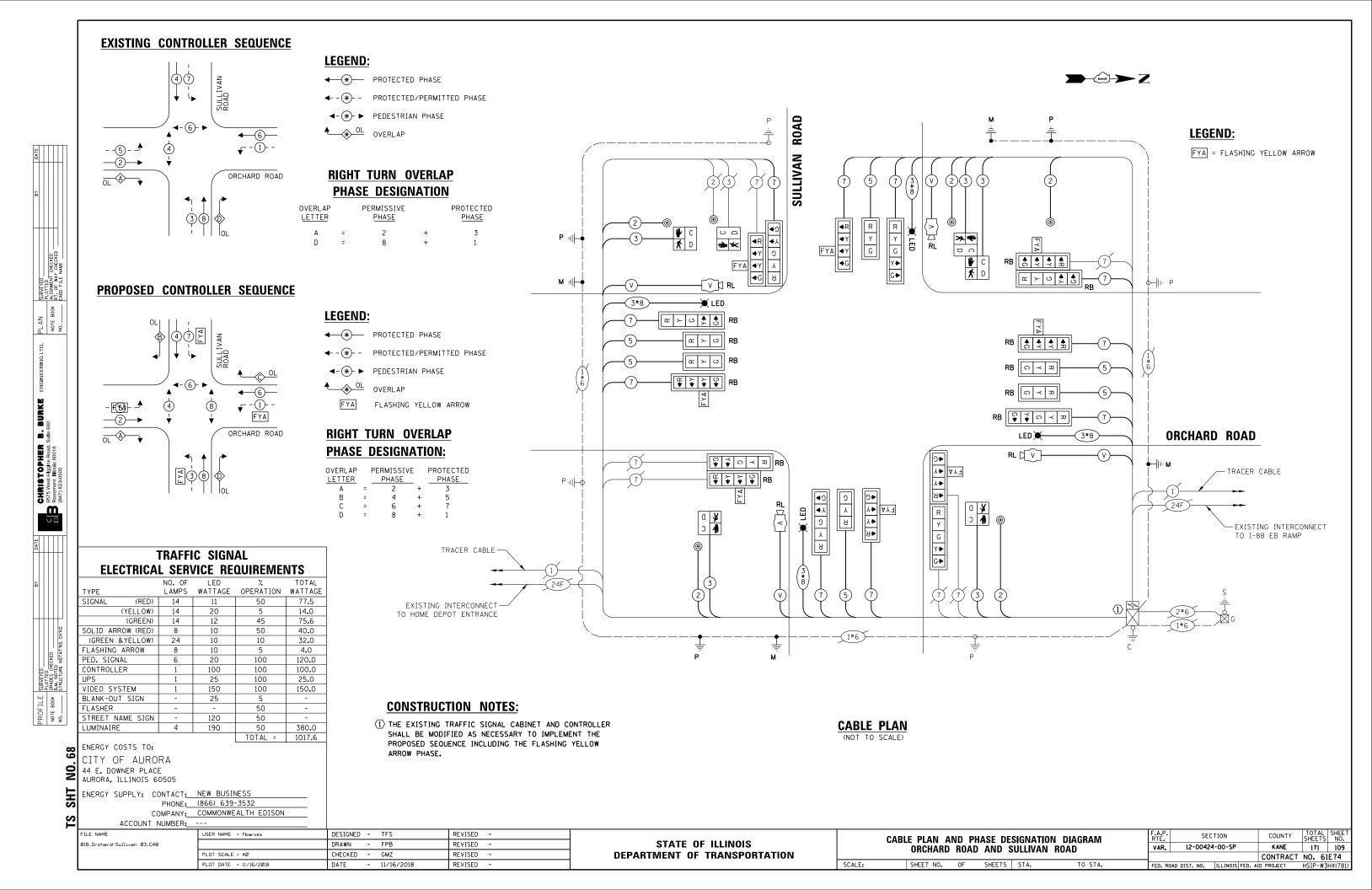
NO. STRUCTURE NOTATINS CHIND STRUCTURE NOTATINS CHIND

S SHT NO. 65

TILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -	
017_Orchard-HomeDepot 03_CAB-2		DRAWN - FPB	REVISED -	
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -	
	PLOT DATE = 11/16/2018	DATE - 11/16/2018	REVISED -	

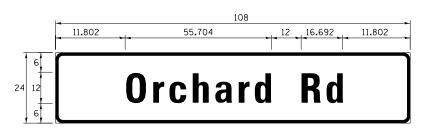




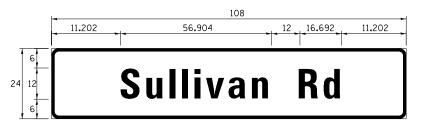


SIGN PANEL – TYPE 1

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	18.0	2	ZZ	2



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	18.0	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION
PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME

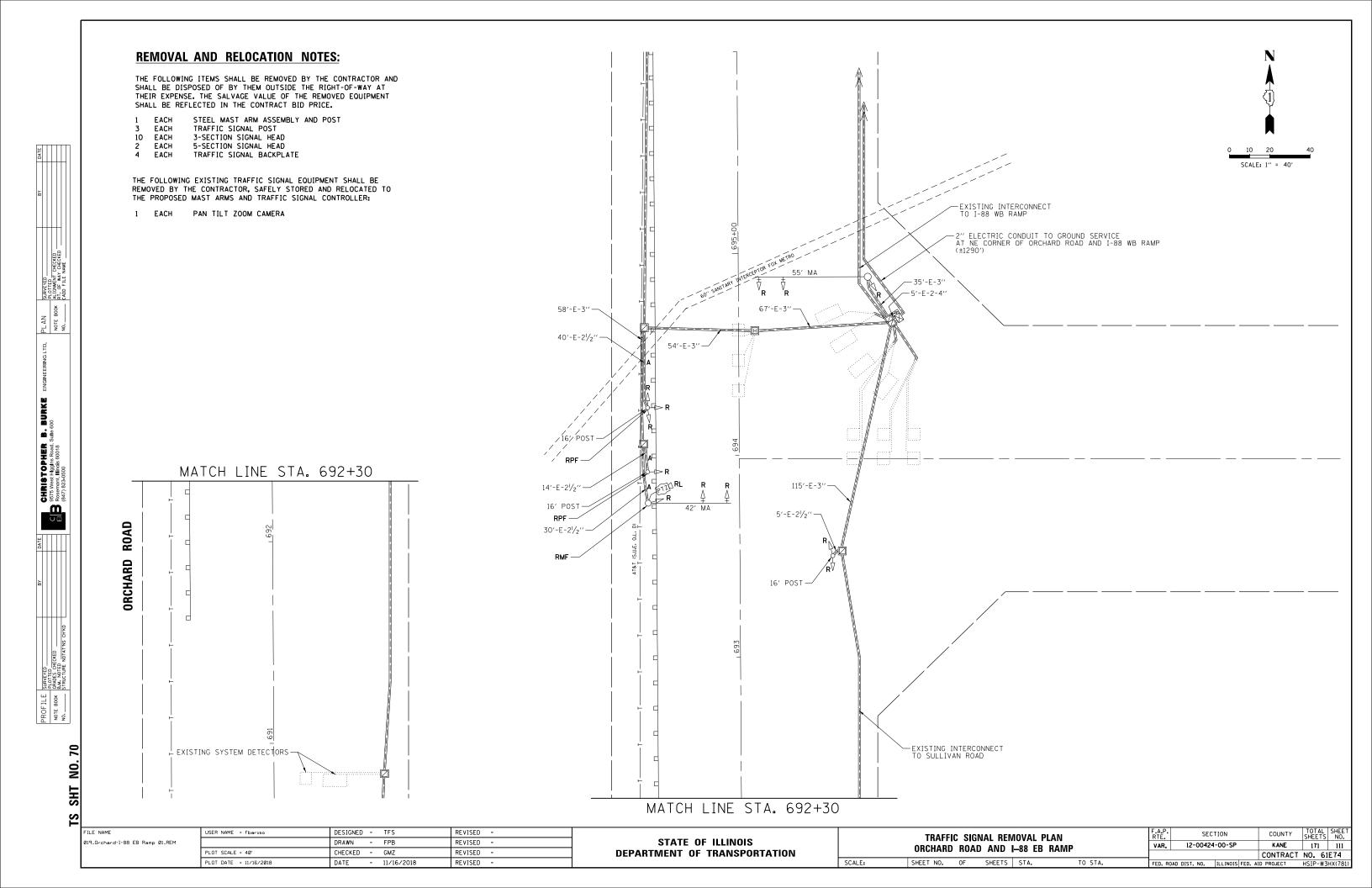
SCHEDULE OF QUANTITIES

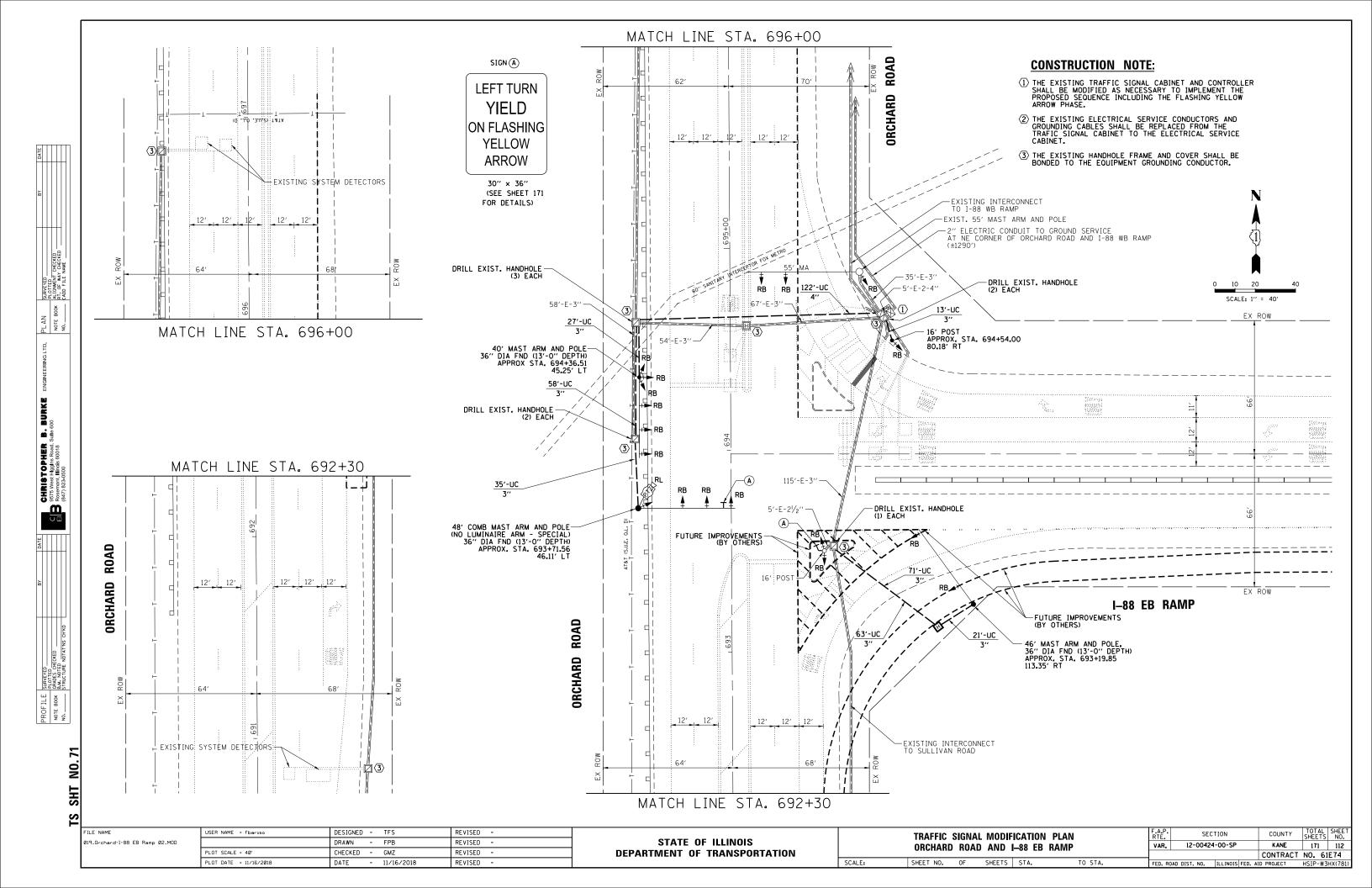
ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	78.8
SIGN PANEL - TYPE 2	SQ FT	72.0
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	129.0
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	432.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	2,471.0
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1.0
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	5.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	954.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,098.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,149.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,506.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	724.0
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 66 FT.	EACH	2.0
CONCRETE FOUNDATION, TYPE A	FOOT	12.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28.0
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	50.0
DRILL EXISTING HANDHOLE	EACH	12.0
DRILL EXISTING HEAVY DUTY HANDHOLE	EACH	15.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6.0
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4.0
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4.0
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4.0
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4.0
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6.0
TRAFFIC SIGNAL BACKPLATE	EACH	10.0
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	12.0
PEDESTRIAN PUSH-BUTTON	EACH	6.0
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8,161.5
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
REBUILD EXISTING HANDHOLE	EACH	2.0
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4.0
RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1.0
* ROD AND CLEAN EXISTING CONDUIT	FOOT	500.0
TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	1.0
LUMINAIRE, LED, HORIZONTAL MOUNT, 190 WATT (SPECIAL)	EACH	1.0
PEDESTRIAN PUSH-BUTTON POST, TYPE A	EACH	1.0
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1.0
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1.0
*Nominal Quantity to be Used as Directed by the Engineer		

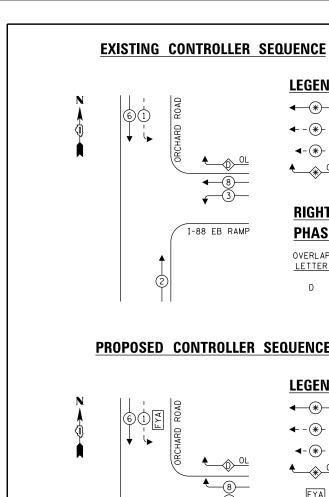
SHT NO. 69

FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -
018_Orchard-Sullivan 03_CAB-2		DRAWN - FPB	REVISED -
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -
	PLOT DATE = 11/16/2018	DATE - 11/16/2018	REVISED -

SCALE:







LEGEND:

- **★**PROTECTED PHASE
- ← -(*)- PROTECTED/PERMITTED PHASE
- √- (*)- ► PEDESTRIAN PHASE
- ◆ OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTE PHASE
	_		_	1

PROPOSED CONTROLLER SEQUENCE

I-88 EB RAMP

LEGEND:

- **◆ ***PROTECTED PHASE
- ← -(*)- PROTECTED/PERMITTED PHASE
- √-(*)- ► PEDESTRIAN PHASE
- ◆ OL OVERLAP
- FYA = FLASHING YELLOW ARROW

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP		PERMISSIVE	PROTECTE	D	
LETTER		PHASE	PHASE	_	
Α	=	CONTINUOUS	OVERLAP	(FREE	FLO
D	=	8+Y+R +	1		

TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	9	20	5	9.0
(GREEN)	9	12	45	48.6
SOLID ARROW (RED)	2	10	50	10.0
(GREEN &YELLOW)	22	10	10	22.0
FLASHING ARROW	2	10	5	1.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	190	50	-
-			TOTAL =	303.6

ENERGY COSTS TO:

KANE COUNTY DIVISION OF TRANSPORTATION 41W011 BURLINGTON ROAD ST. CHARLES, IL 60175

ENERGY SUPPLY: CONTACT: NEW BUSINESS PHONE: (866) 639-3532 COMPANY: COMMONWEALTH EDISON

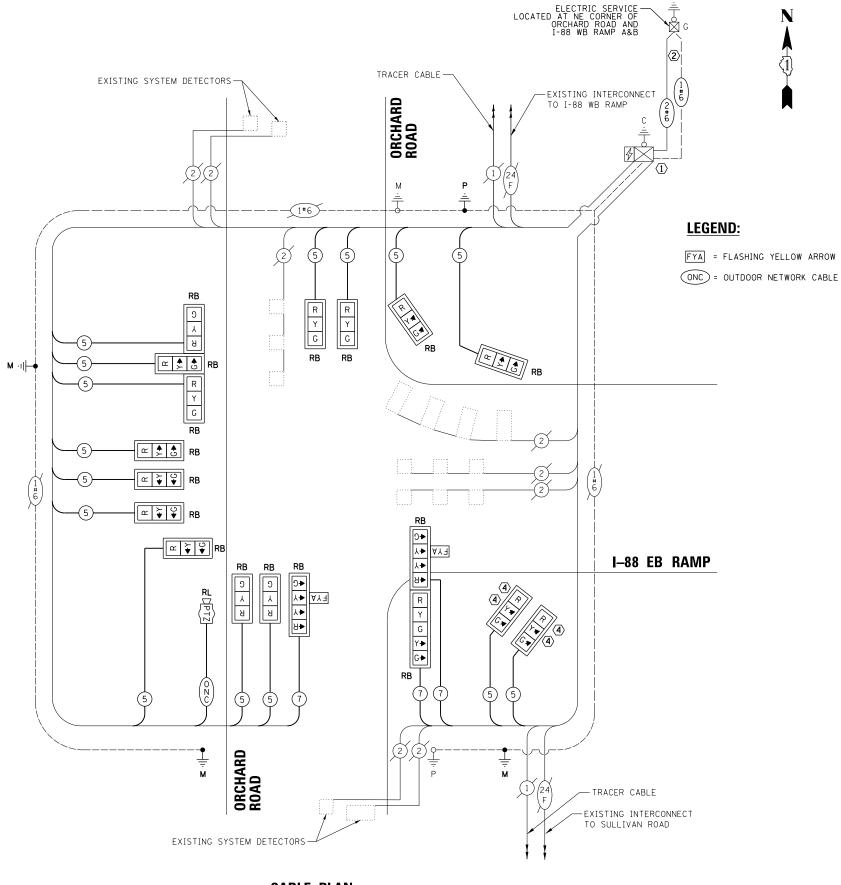
ACCOUNT NUMBER: ---

FILE NAME				
019_Orchard-I-88	ЕВ	Ramp	Ø3_CAB	

USER NAME = fbariso	DESIGNED	-	TFS	REVISED	-
	DRAWN	-	FPB	REVISED	-
PLOT SCALE = 40'	CHECKED	-	GMZ	REVISED	-
PLOT DATE = 11/16/2018	DATE	-	11/16/2018	REVISED	-

CONSTRUCTION NOTE:

- 1 THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.
- $\langle \overline{2} \rangle$ THE EXISTING ELECTRICAL SERVICE CONDUCTORS AND GROUNDING CABLES SHALL BE REPLACED FROM THE TRAFIC SIGNAL CABINET TO THE ELECTRICAL SERVICE
- 3 THE EXISTING HANDHOLE FRAME AND COVER SHALL BE BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR.
- (4) RED CIRCULAR AND YELLOW ARROW INDICATIONS SHALL BE DISABLED.



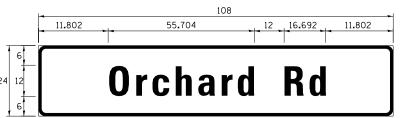
CABLE PLAN (NOT TO SCALE)

SCALE:

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION COUNTY CABLE PLAN AND PHASE DESIGNATION DIAGRAM 12-00424-00-SP KANE 171 113 ORCHARD ROAD AND I-88 EB RAMP VAR. CONTRACT NO. 61E74 SHEET NO. OF SHEETS STA. TO STA.

SIGN PANEL – TYPE 1



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	18.0	2	ZZ	1

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE

11.802		12 16.692	11.802
6 4 12	Orcha	rd Rd	

DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	18.0	2	ZZ	1

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	15.0
SIGN PANEL - TYPE 2	SQ FT	18.0
MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	50.0
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	220.0
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	122.0
HEAVY-DUTY HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	6
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,158.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	667.0
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	1,360.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,812.0
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	37.0
DRILL EXISTING HANDHOLE	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	18
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3,048.0
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
* ROD AND CLEAN EXISTING CONDUIT	FOOT	375.0
OUTDOOR RATED NETWORK CABLE	FOOT	310.5
TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT. (SPECIAL)	EACH	1
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
RELOCATE EXISTING PTZ CAMERA	EACH	1
*Newsign Countity to be Used as Diseated by the Conjugat		

*Nominal Quantity to be Used as Directed by the Engineer

SCALE:

USER NAME = fbariso DESIGNED - TFS DRAWN - FPB 019_Orchard-I-88 EB Ramp 03_CAB-2 PLOT SCALE = 40' CHECKED - GMZ PLOT DATE = 11/16/2018 DATE - 11/16/2018

DEPARTMENT OF TRANSPORTATION

STATE OF ILLINOIS

REVISED -

REVISED -

REVISED -

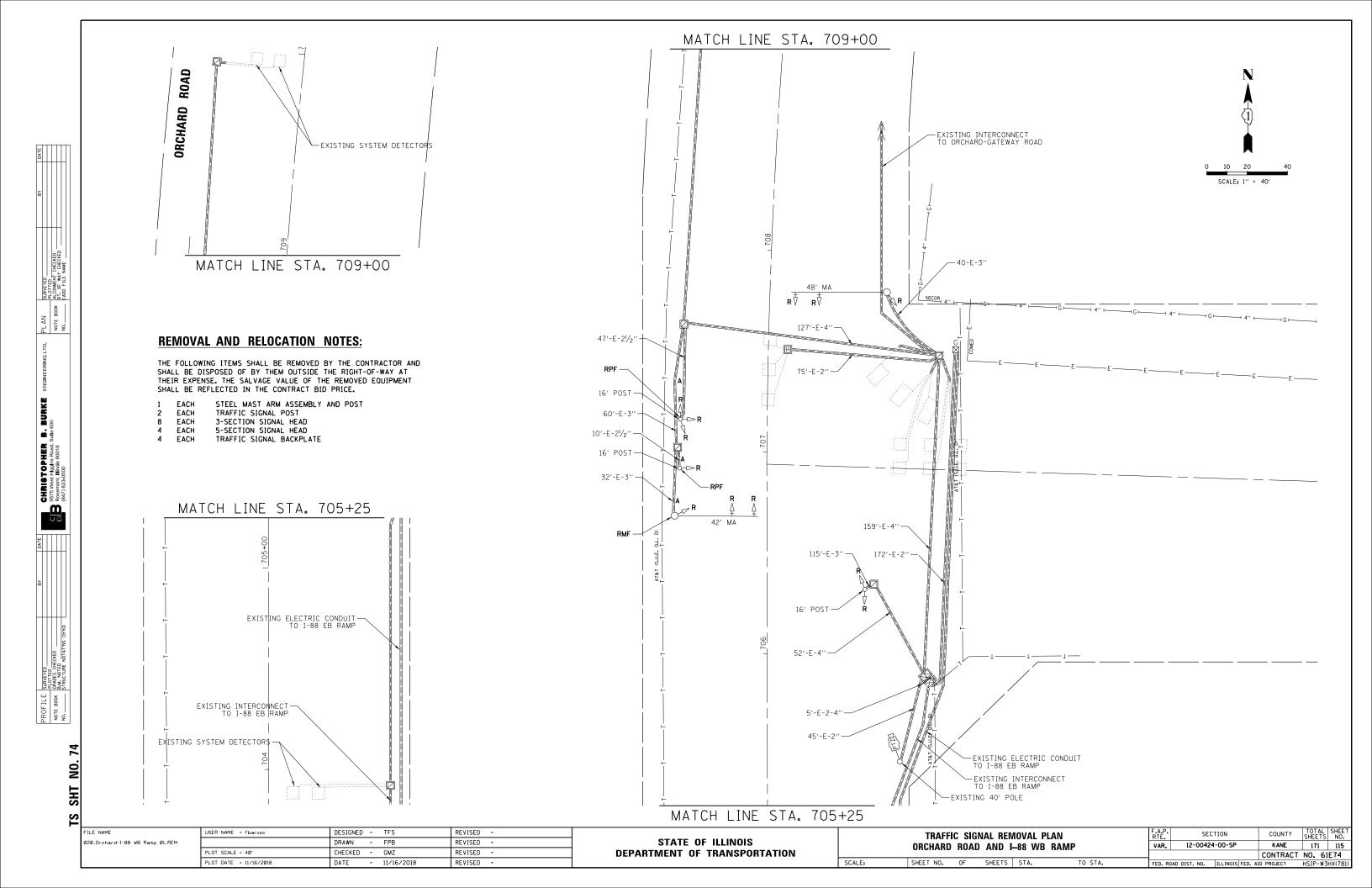
REVISED -

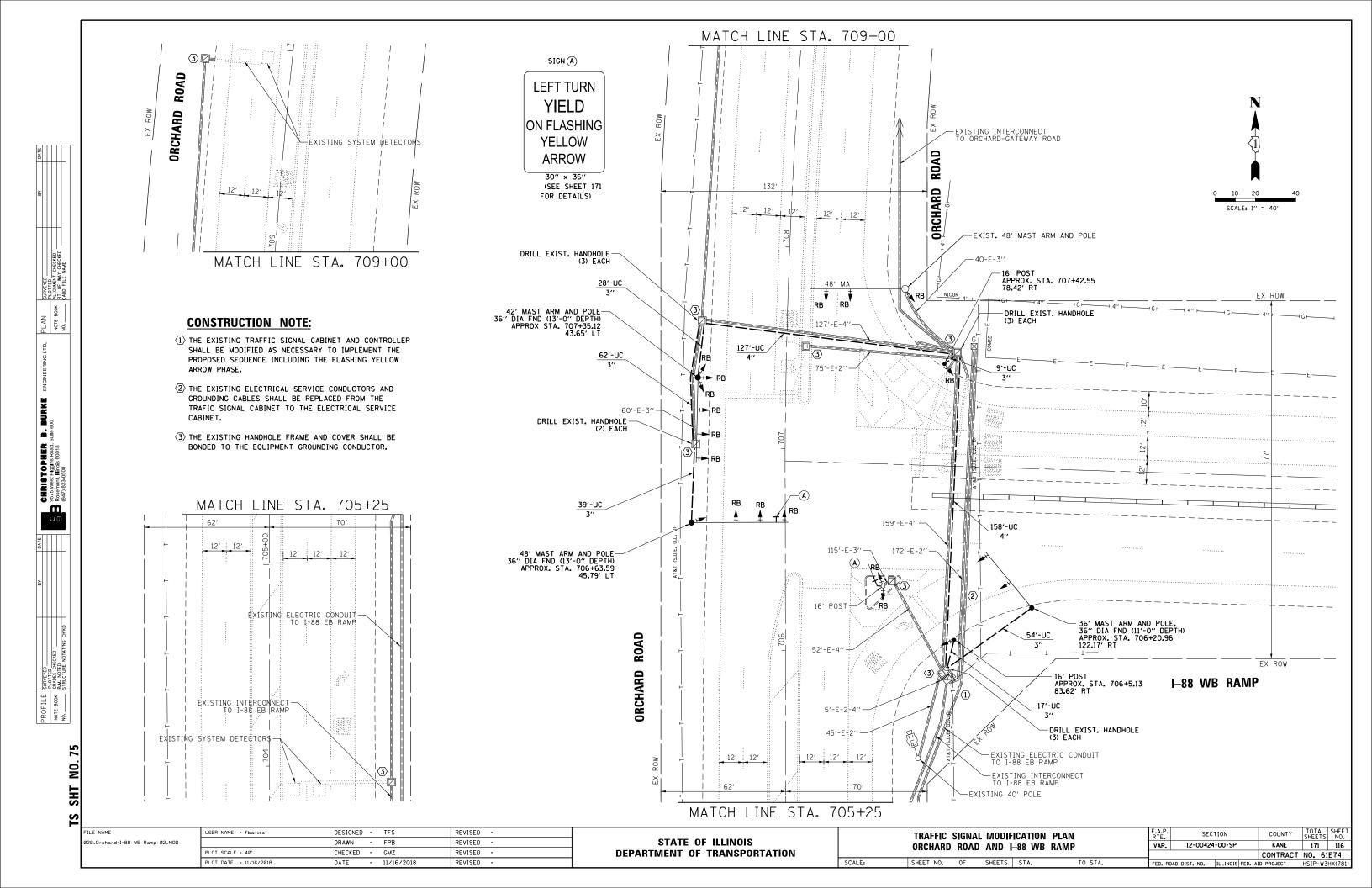
SCHEDULE OF QUANTITIES
AND MAST ARM MOUNTED STREET NAME SIGN
ORCHARD ROAD AND I-88 EB RAMP SHEET NO. OF SHEETS STA.

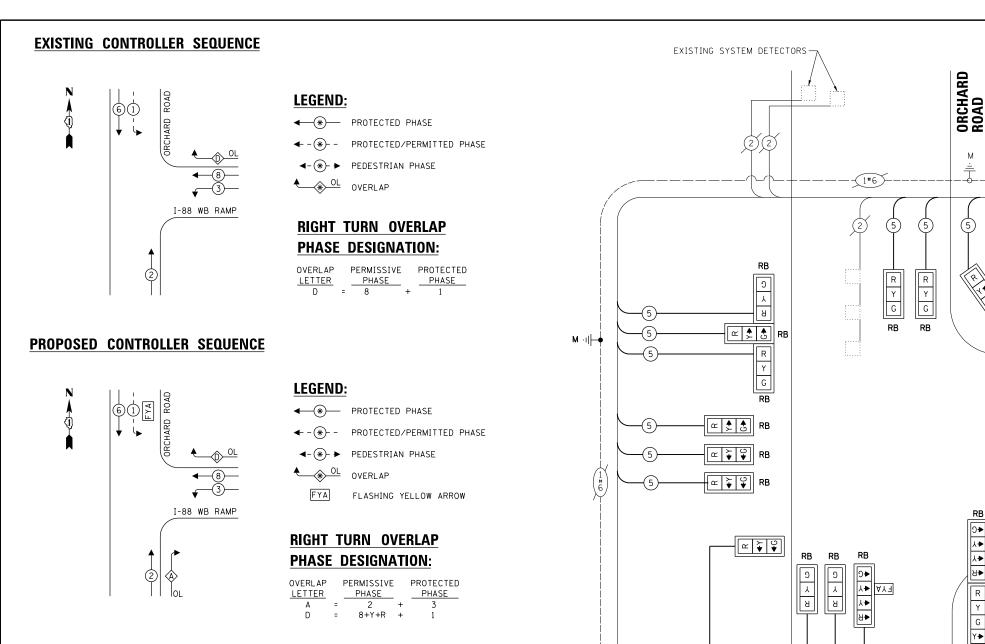
COUNTY TOTAL SHEET NO.

KANE 171 114 SECTION 12-00424-00-SP VAR. CONTRACT NO. 61E74

FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | HSIP-W3HX(781)







TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	17	11	50	93.5
(YELLOW)	10	20	5	10.0
(GREEN)	10	12	45	54.0
SOLID ARROW (RED)	2	10	50	10.0
(GREEN &YELLOW)	13	10	10	13.0
FLASHING ARROW	2	10	5	1.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	190	50	-
			TOTAL =	306.5

ENERGY COSTS TO:

KANE COUNTY DIVISION OF TRANSPORTATION 41W011 BURLINGTON ROAD ST. CHARLES, IL 60175

ENERGY SUPPLY: CONTACT: NEW BUSINESS PHONE: (866) 639-3532 COMPANY: COMMONWEALTH EDISON

ACCOUNT NUMBER:

020_Orchard-I-88 WB Ramp 03_CAB

USER NAME = fbariso	DESIGNED	-	TFS	REVISED	-
	DRAWN	-	FPB	REVISED	
PLOT SCALE = 40'	CHECKED	-	GMZ	REVISED	
PLOT DATE = 11/16/2018	DATE	-	11/16/2018	REVISED	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION COUNTY CABLE PLAN AND PHASE DESIGNATION DIAGRAM 12-00424-00-SP KANE 171 117 ORCHARD ROAD AND 1-88 WB RAMP VAR. CONTRACT NO. 61E74 SHEET NO. OF SHEETS STA. TO STA.

TRACER CABLE -

I-88 WB RAMP

G Y**≯** G**→**

G Y**→** G**→**

TRACER CABLE -

TO I-88 EB RAMP

EXISTING INTERCONNECT-

SCALE:

CABLE PLAN

(NOT TO SCALE)

-EXISTING INTERCONNECT TO ORCHARD-GATEWAY ROAD

LEGEND:

FYA = FLASHING YELLOW ARROW

(ONC) = OUTDOOR NETWORK CABLE

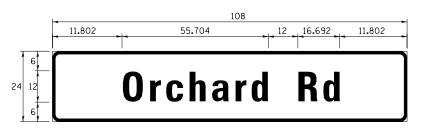
CONSTRUCTION NOTE:

- $\langle 1 \rangle$ THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO IMPLEMENT THE PROPOSED SEQUENCE INCLUDING THE FLASHING YELLOW ARROW PHASE.
- (2) THE EXISTING ELECTRICAL SERVICE CONDUCTORS AND GROUNDING CABLES SHALL BE REPLACED FROM THE TRAFIC SIGNAL CABINET TO THE ELECTRICAL SERVICE
- (3) THE EXISTING HANDHOLE FRAME AND COVER SHALL BE BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR.

ORCHARD ROAD

EXISTING SYSTEM DETECTORS

SIGN PANEL — TYPE 1
ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	18.0	2	ZZ	1

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	15.0
SIGN PANEL - TYPE 2	SQ FT	18.0
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	209.0
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	285.0
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1.0
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	8.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,465.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	589.5
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	1,370.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,950.0
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1.0
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1.0
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1.0
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1.0
CONCRETE FOUNDATION, TYPE A	FOOT	4.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	37.0
DRILL EXISTING HANDHOLE	EACH	11.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6.0
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1.0
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1.0
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2.0
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2.0
TRAFFIC SIGNAL BACKPLATE	EACH	19.0
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6.0
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3,988.5
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4.0
* ROD AND CLEAN EXISTING CONDUIT	FOOT	375.0
OUTDOOR RATED NETWORK CABLE	FOOT	120.0
TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	1.0
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1.0
*Nominal Quantity to be Used as Directed by the Engineer		

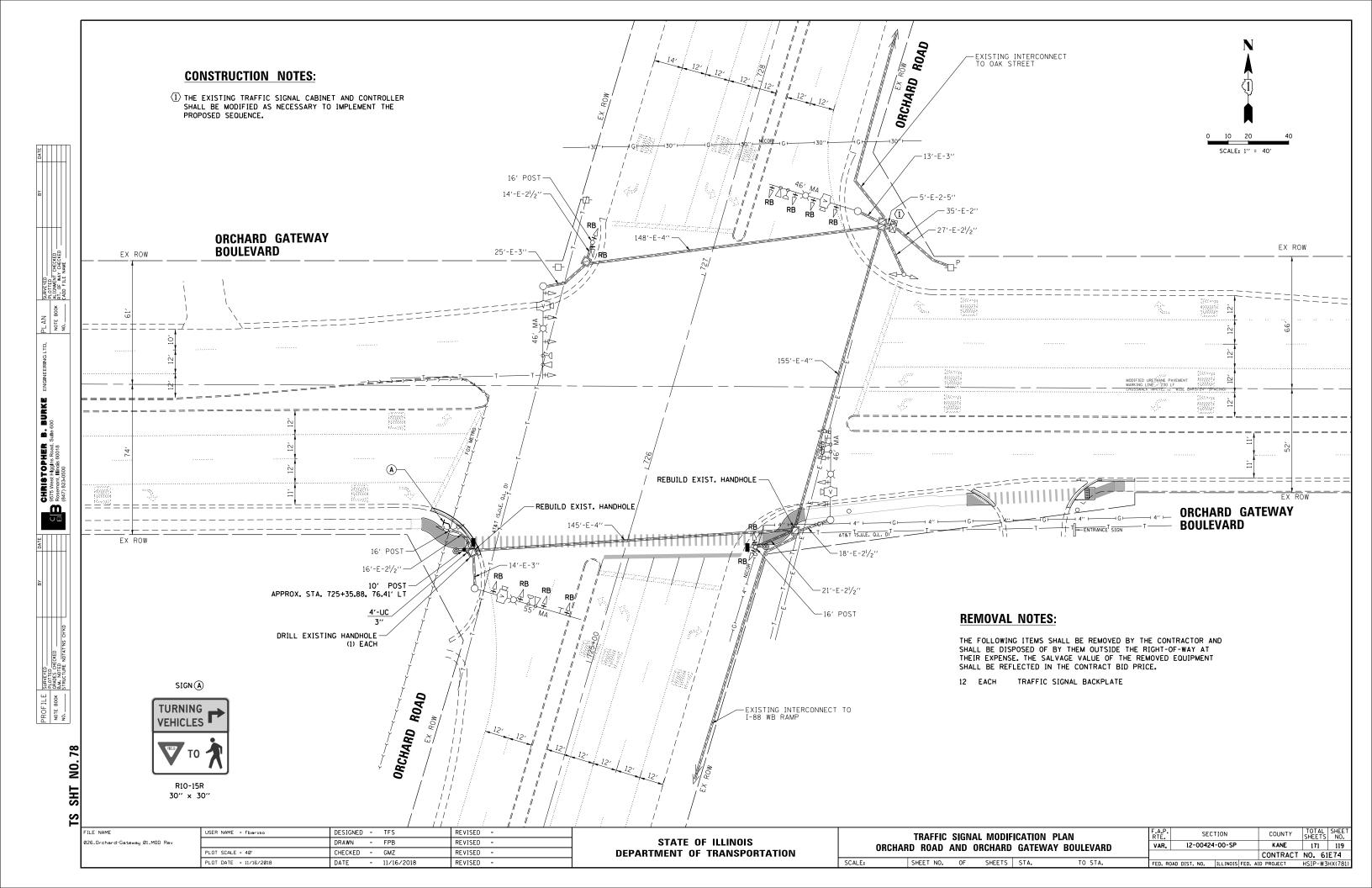
020_Orchard-I-88 WB Ramp 03_CAB-2

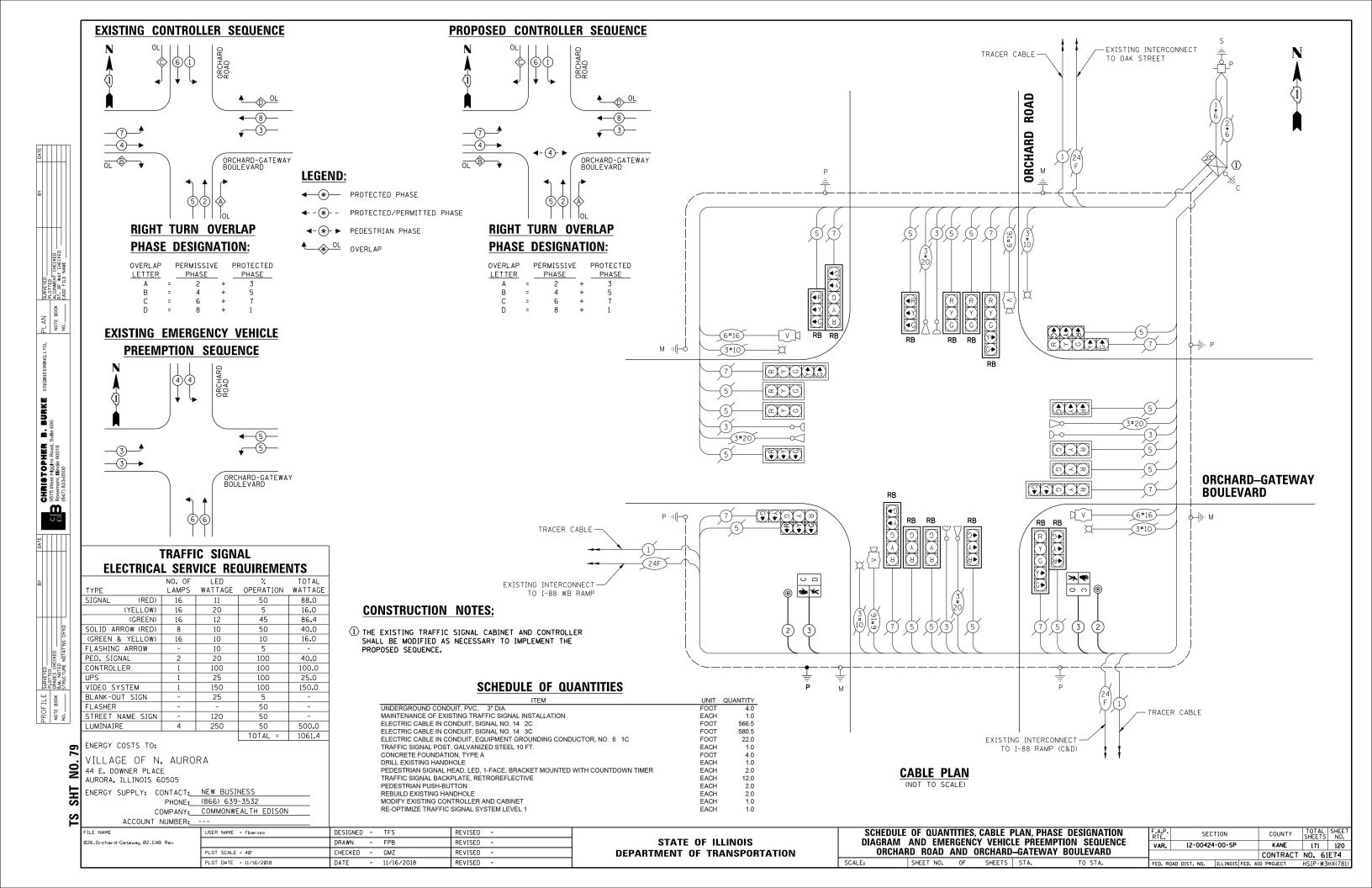
USER NAME = fbariso	DESIGNED	-	TFS	REVISED	-
	DRAWN	-	FPB	REVISED	-
PLOT SCALE = 40'	CHECKED	-	GMZ	REVISED	-
PLOT DATE = 11/16/2018	DATE	-	11/16/2018	REVISED	-

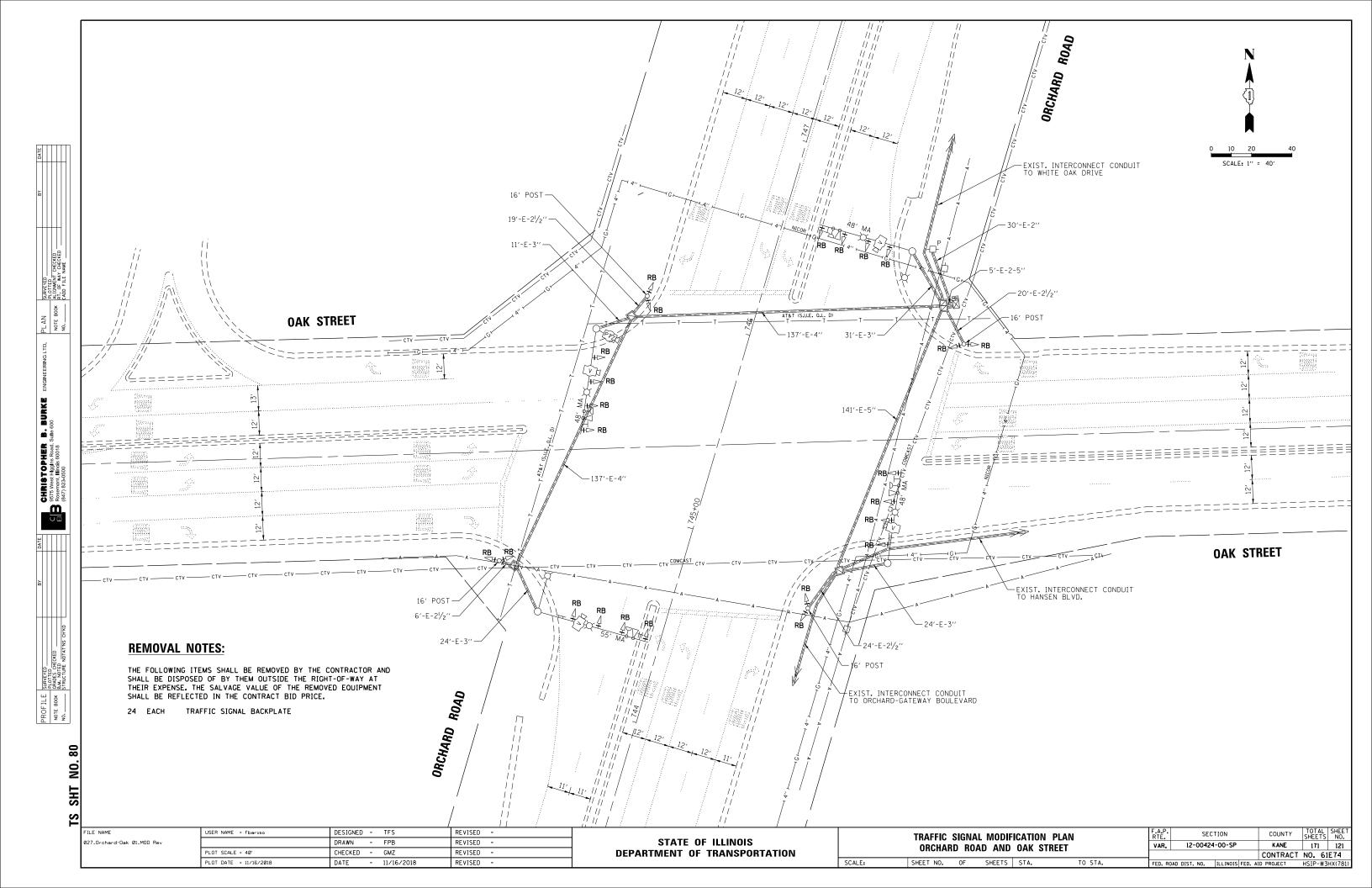
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

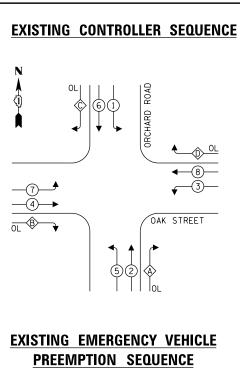
SCALE:

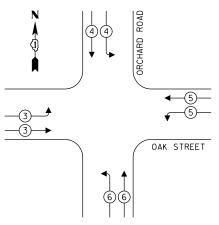
				JANTITIES			F.A.P. RTE.	SEC	TION	COUNTY	T0 SHE
AND MAST ARM MOUNTED STREET NAME SIGN ORCHARD ROAD AND ⊢88 WB RAMP				VAR.	12-0042	4-00-SP	KANE	1			
	UKCHAKD	KUAL	AND	H88 MR	KAWP					CONTRACT	NO.
	SHEET NO.	OF	SHEETS	STA.	TO	STA.	FED. RC	AD DIST. NO.	ILLINOIS FED.	AID PROJECT	HSIF











TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	NO. OF	LED	7.	TOTAL				
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE				
SIGNAL (RED)	14	11	50	77.0				
(YELLOW)	14	20	5	14.0				
(GREEN)	14	12	45	75.6				
SOLID ARROW (RED)	12	10	50	60.0				
(GREEN &YELLOW)	40	10	10	40.0				
FLASHING ARROW	-	10	5	-				
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	6	250	50	750.0				
-			TOTAL =	1291.6				

ENERGY COSTS TO:

KANE COUNTY DIVISION OF TRANSPORTATION

ENERGY SUPPLY: CONTACT: NEW BUSINESS PHONE: (866) 639-3532

COMPANY: COMMONWEALTH EDISON ACCOUNT NUMBER:_

027_Orchard-Oak 02_CAB Rev

DESIGNED - TFS REVISED USER NAME = fbariso DRAWN - FPB REVISED PLOT SCALE = 40' CHECKED - GMZ REVISED PLOT DATE = 11/16/2018 DATE - 11/16/2018 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE ORCHARD ROAD AND OAK STREET SHEET NO. OF SHEETS STA.

SECTION COUNTY 12-00424-00-SP KANE 171 122 VAR. CONTRACT NO. 61E74

ORCHARD ROAD LEGEND: ONC = OUTDOOR NETWORK CABLE œ ≻ © ♠ RB ₩ ¥ ¥ RB OAK ST RB 3#10 -INTERCONNECT TO HANSEN BLVD. SCHEDULE OF QUANTITIES -INTERCONNECT TO ORCHARD-GATEWAY BOULEVARD MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE EACH EACH

CABLE PLAN

(NOT TO SCALE)

41W011 BURLINGTON ROAD ST. CHARLES, IL 60175

PHASE DESIGNATION: OVERLAP PERMISSIVE PROTECTED **LETTER** PHASE

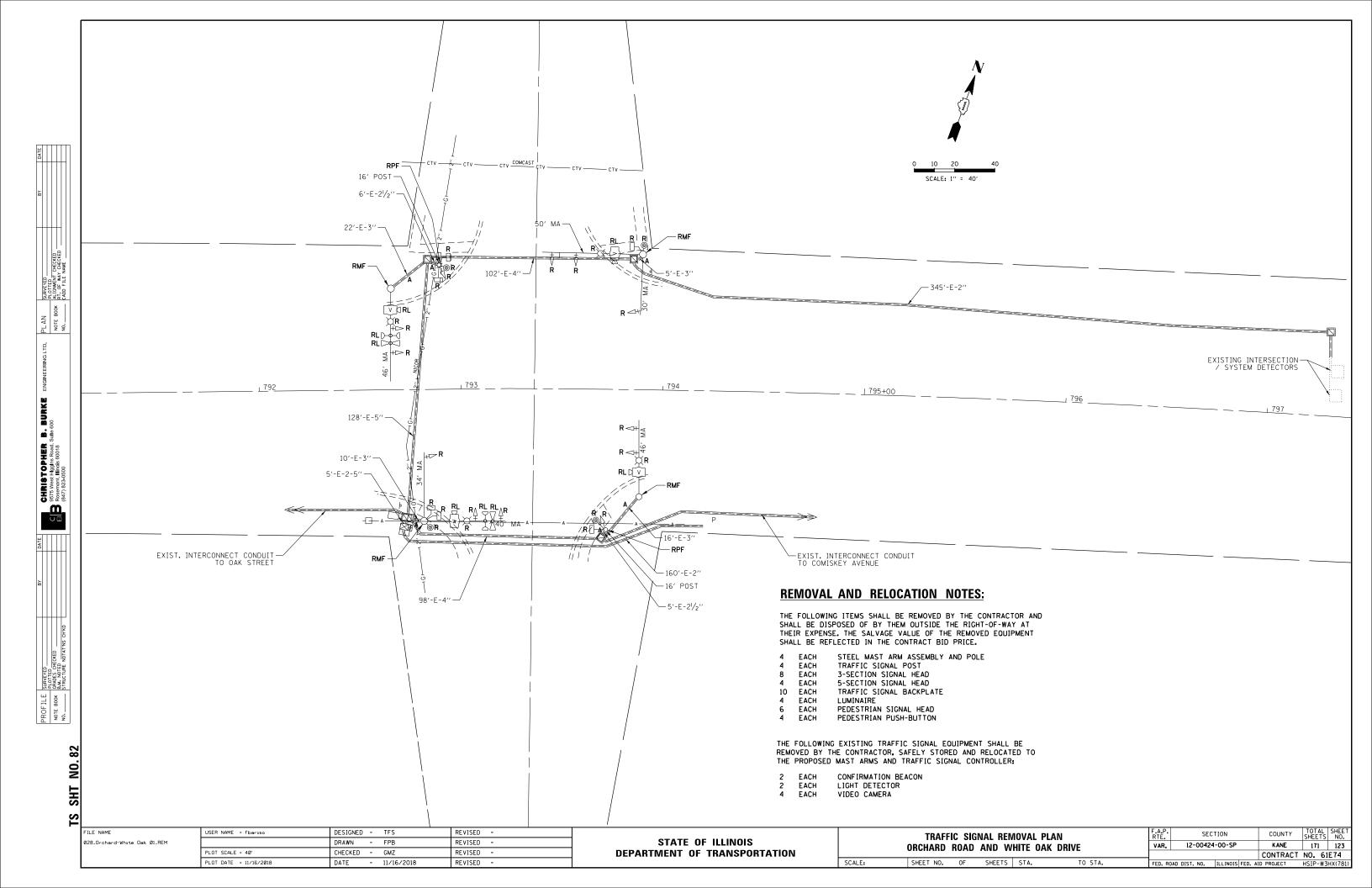
RIGHT TURN OVERLAP

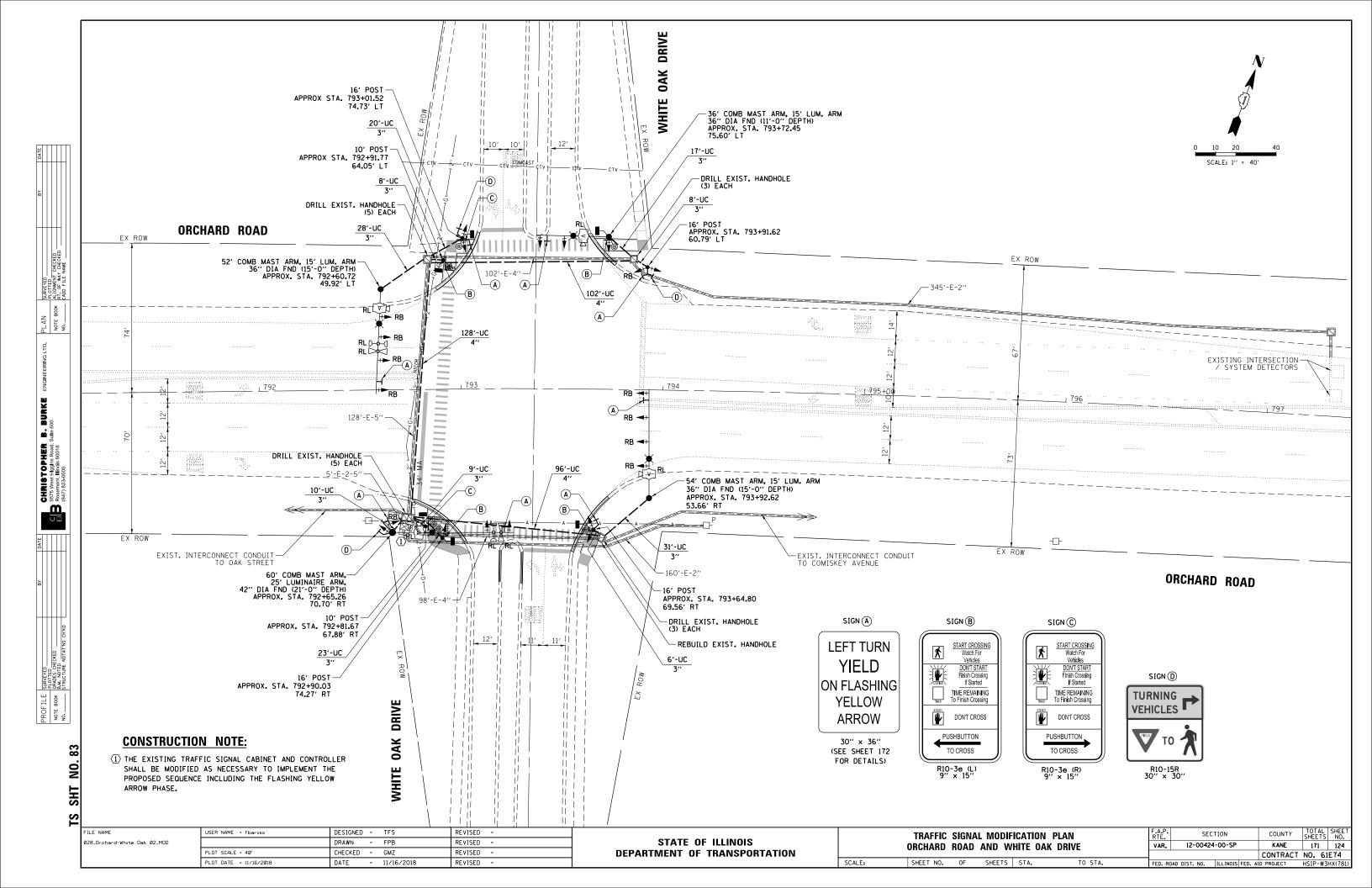
LEGEND:

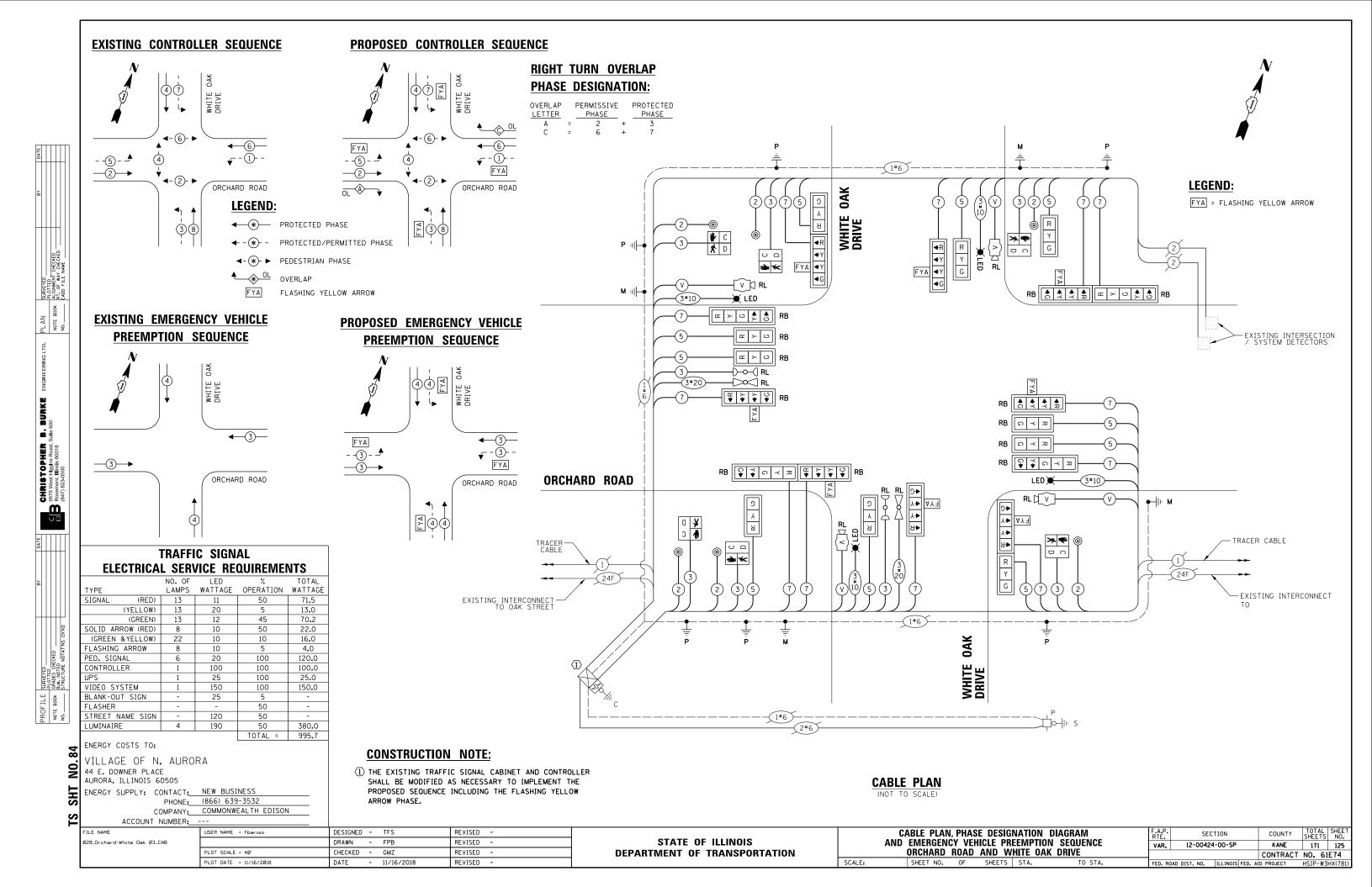
√-(*)- ► PEDESTRIAN PHASE ♦ OL OVERLAP

★PROTECTED PHASE

PROTECTED/PERMITTED PHASE

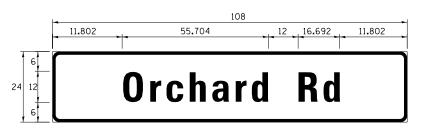




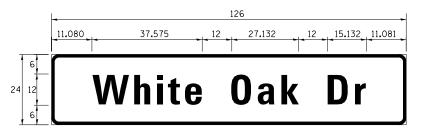


SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	18.0	2	ZZ	2



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	21.0	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME

SCHEDULE OF QUANTITIES

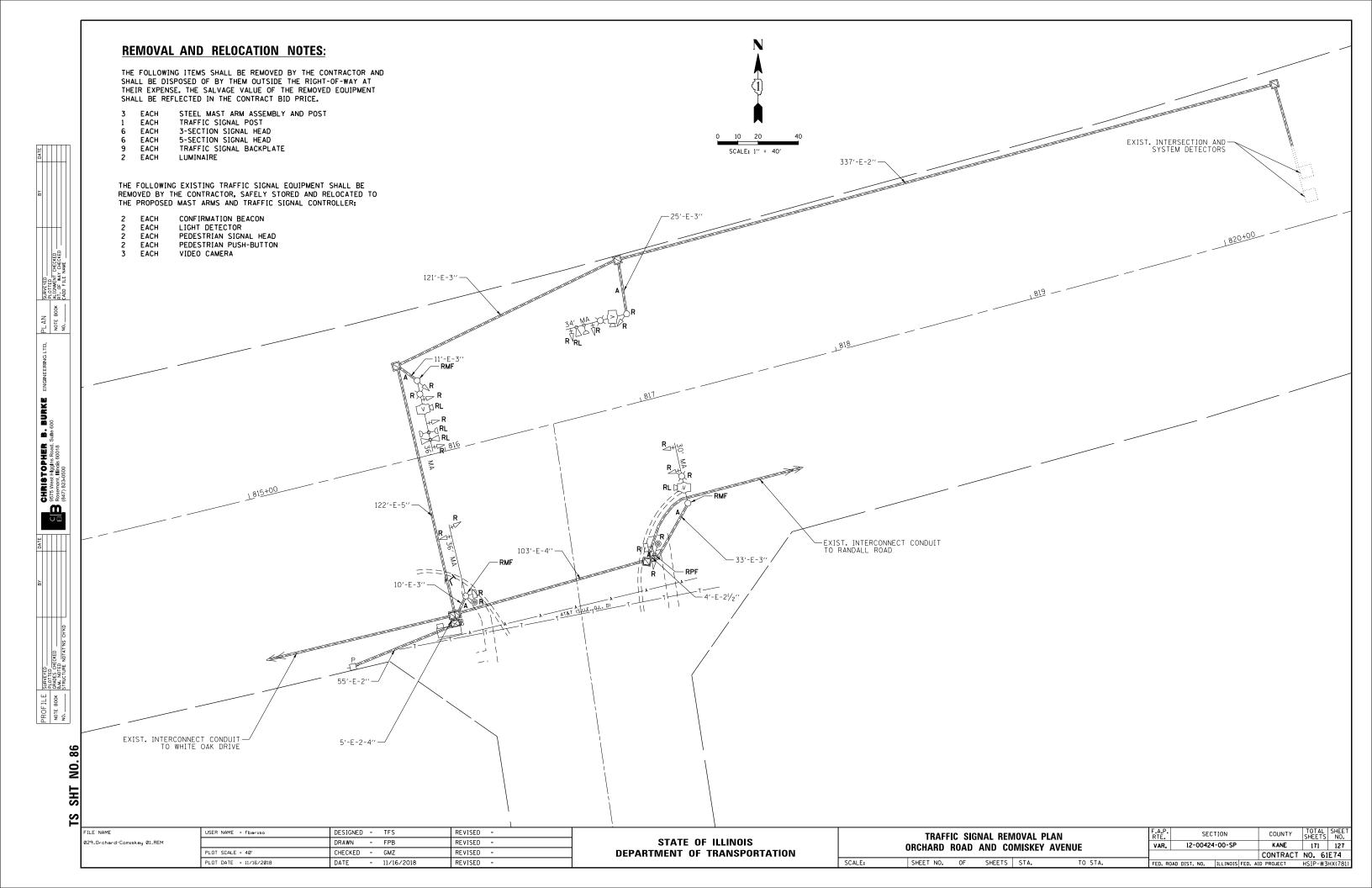
ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	78.8
SIGN PANEL - TYPE 2	SQ FT	78.0
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	160.0
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	326.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,673.0
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	904.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,514.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,120.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,640.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	541.0
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2.0
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	1.0
CONCRETE FOUNDATION, TYPE A	FOOT	24.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	41.0
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21.0
DRILL EXISTING HANDHOLE	EACH	16.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4.0
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4.0
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4.0
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2.0
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2.0
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6.0
TRAFFIC SIGNAL BACKPLATE	EACH	10.0
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	12.0
PEDESTRIAN PUSH-BUTTON	EACH	6.0
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2.0
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6,824.5
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
REBUILD EXISTING HANDHOLE	EACH	1.0
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6.0
RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1.0
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	333.5
* ROD AND CLEAN EXISTING CONDUIT	FOOT	500.0
TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	1.0
LUMINAIRE, LED, HORIZONTAL MOUNT, 190 WATT (SPECIAL)	EACH	4.0
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1.0
*Nominal Quantity to be Used as Directed by the Engineer		

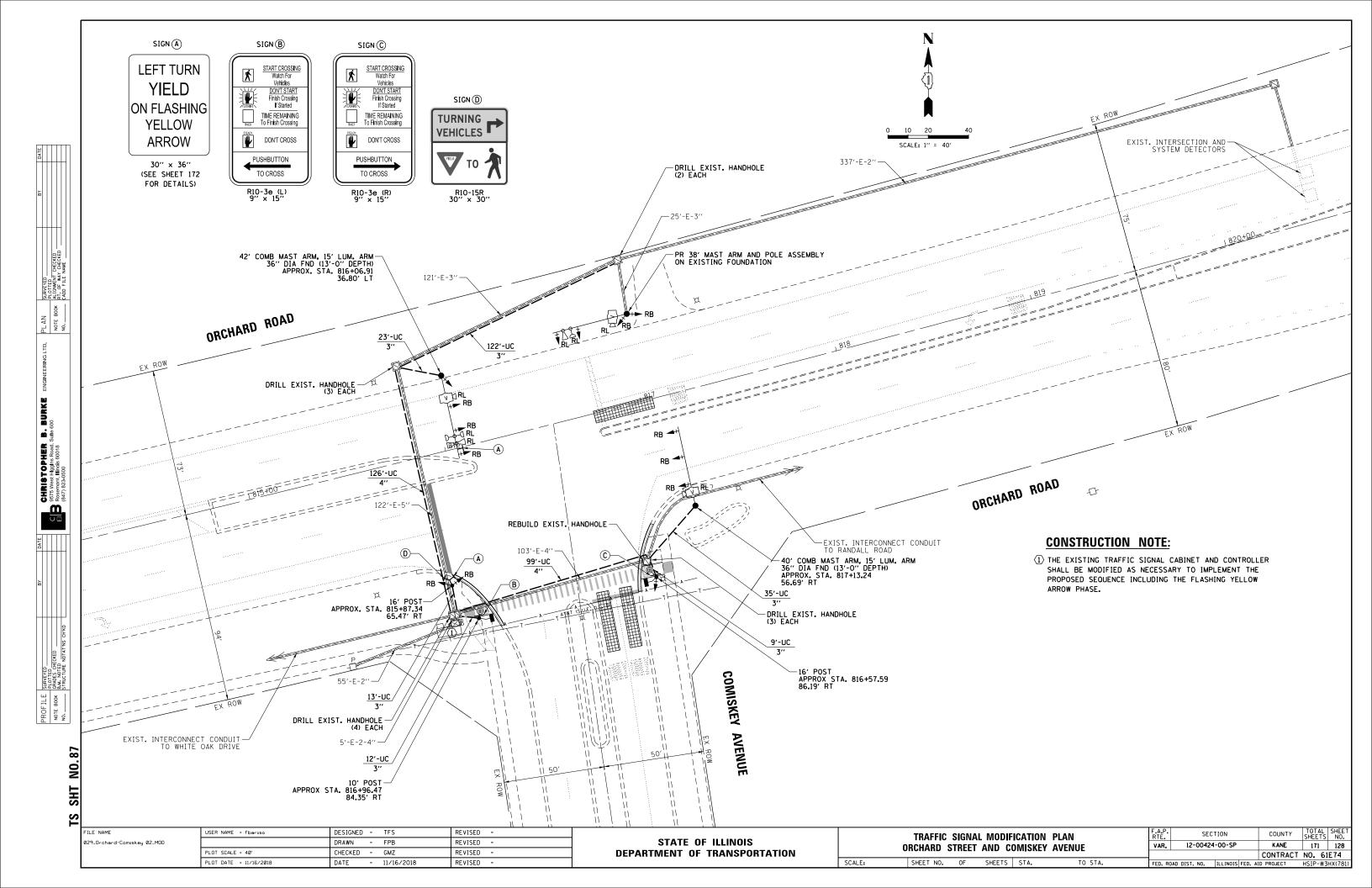
ILE NAME	USER NAME = fbariso	DESIGNED	-	TFS	REVISED	-
28_Orchard-White Oak 03_CAB-2		DRAWN	-	FPB	REVISED	-
	PLOT SCALE = 40'	CHECKED	-	GMZ	REVISED	-
	PLOT DATE = 11/16/2018	DATE	-	11/16/2018	REVISED	-

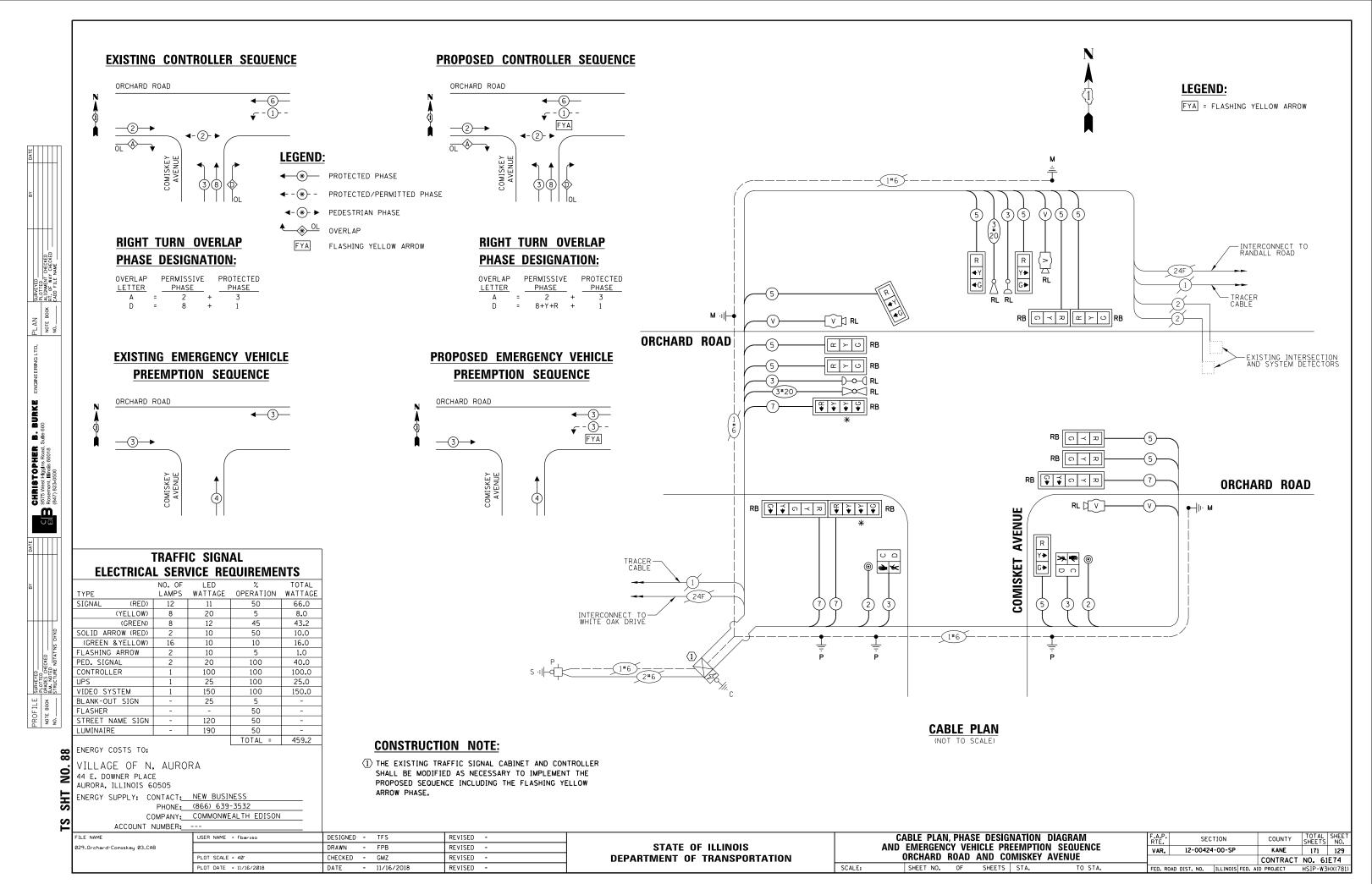
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCALE:

					F.A.P. RTE.	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.	
					VAR.	12-00424	-00-SP	KANE	171	126	
								CONTRACT	NO. 61	E74	
	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. RC	DAD DIST. NO.	ILLINOIS FED. A	D PROJECT	HSIP-W3	HX(781)

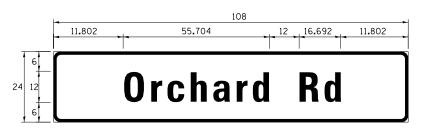




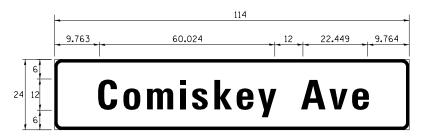


SIGN PANEL - TYPE 1

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	_	SIGN PANEL		OTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	18.0	2	ZZ	2



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
С	19.0	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	21.3
SIGN PANEL - TYPE 2	SQ FT	74.0
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	243.0
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	225.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,439.0
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	193.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	798.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,264.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	539.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	488.5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1.0
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1.0
CONCRETE FOUNDATION, TYPE A	FOOT	12.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26.0
DRILL EXISTING HANDHOLE	EACH	12.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4.0
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1.0
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1.0
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1.0
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1.0
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2.0
TRAFFIC SIGNAL BACKPLATE	EACH	4.0
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	10.0
PEDESTRIAN PUSH-BUTTON	EACH	2.0
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2.0
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6,335.0
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
REBUILD EXISTING HANDHOLE	EACH	1.0
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5.0
RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1.0
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	590.5
* ROD AND CLEAN EXISTING CONDUIT	FOOT	375.0
TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	1.0
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1.0

*Nominal Quantity to be Used as Directed by the Engineer

SCALE:

S SHT NO. 89

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

AND MAST ARM MOUNTED STREET NAME SIGN
ORCHARD ROAD AND COMISKEY AVENUE

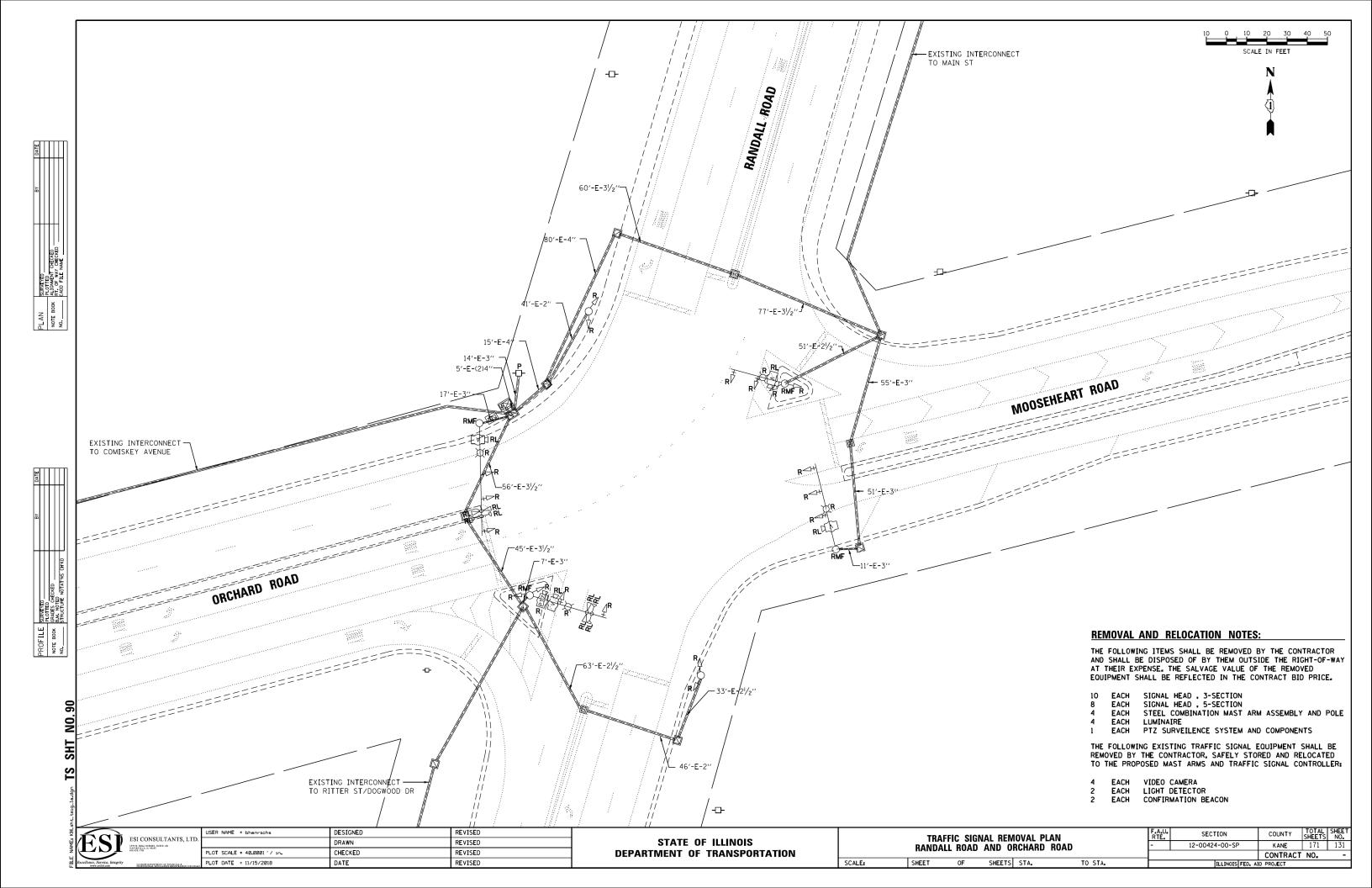
SHEET NO. OF SHEETS STA. TO STA.

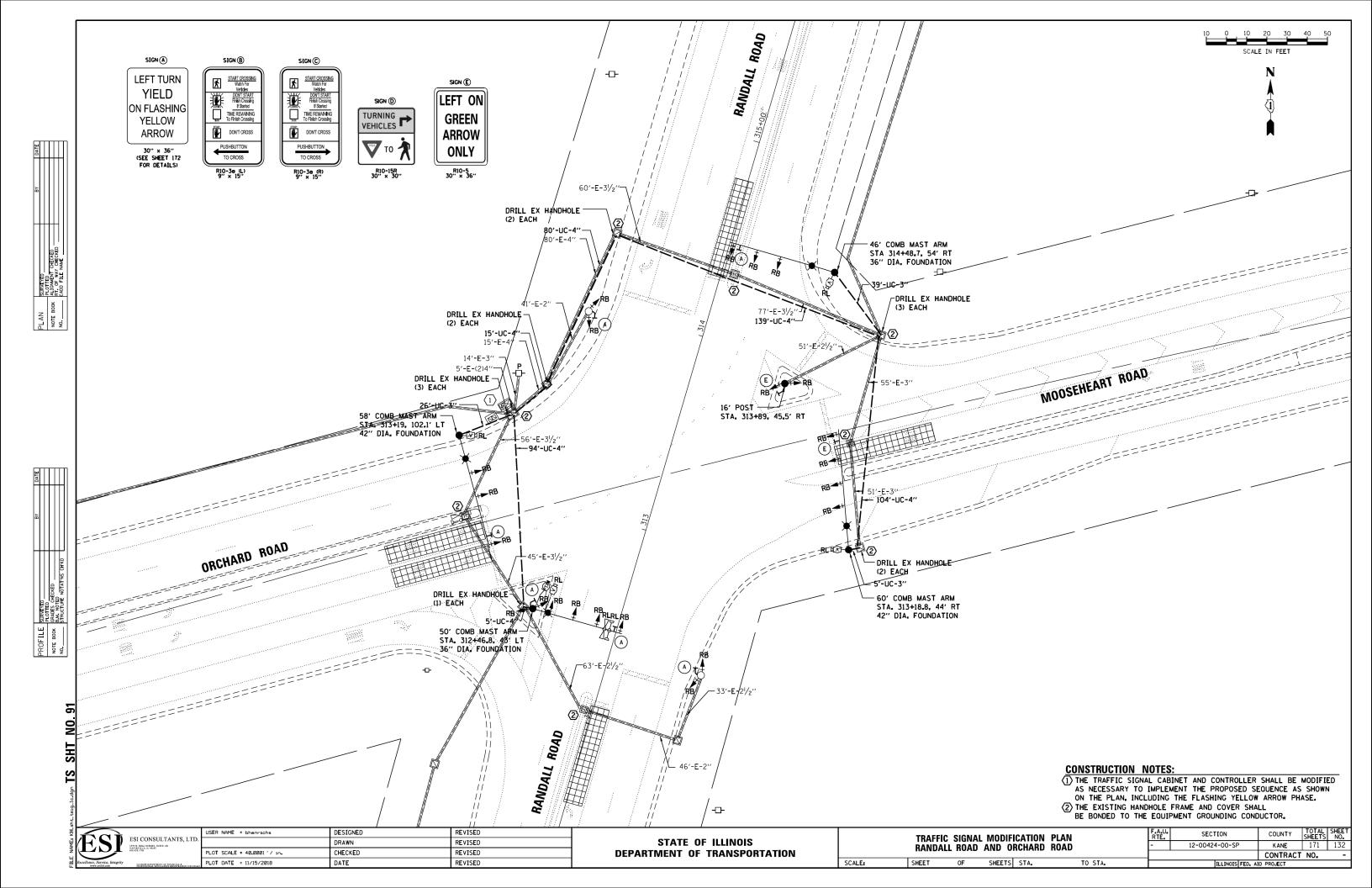
FF.A.P. SECTION COUNTY TOTAL SHEETS NO.

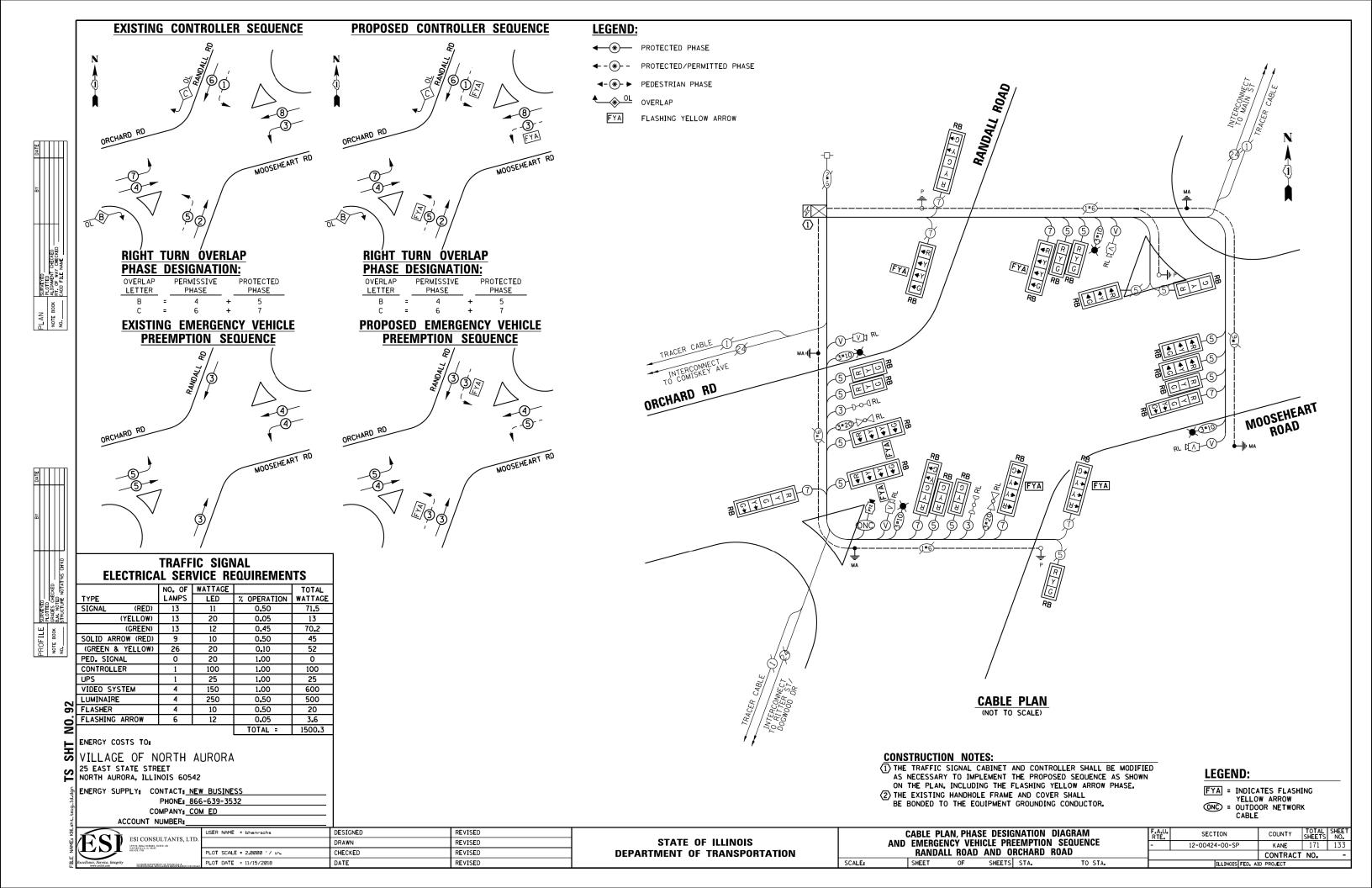
VAR. 12-00424-00-SP KANE 171 130

CONTRACT NO. 61E74

FED. ROAD DIST. NO. | ILLLINOIS | FED. AID | PROJECT | HS | P-W3HX(781)

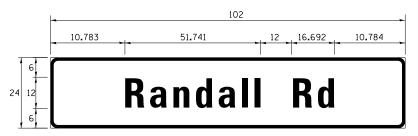




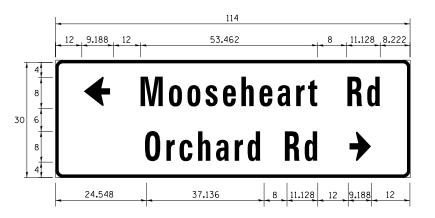


SIGN PANEL - TYPE 1 OR TYPE 2

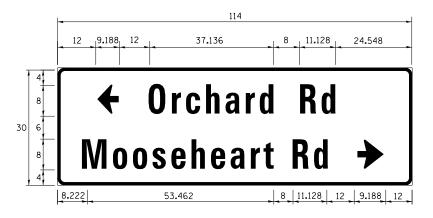
ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	17.0	2	ZZ	2



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	23.75	3	ZZ	1



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	23.75	3	ZZ	1

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

S SHT NO. 93

FILE	NAME
ESI_S	heet-04_QTY_Randall-Orchard

USER NAME = fbariso	DESIGNED	-	TFS	REVISED	-
	DRAWN	-	FPB	REVISED	-
PLOT SCALE = 40'	CHECKED	-	GMZ	REVISED	-
PLOT DATE = 11/16/2018	DATE	-	11/16/2018	REVISED	-

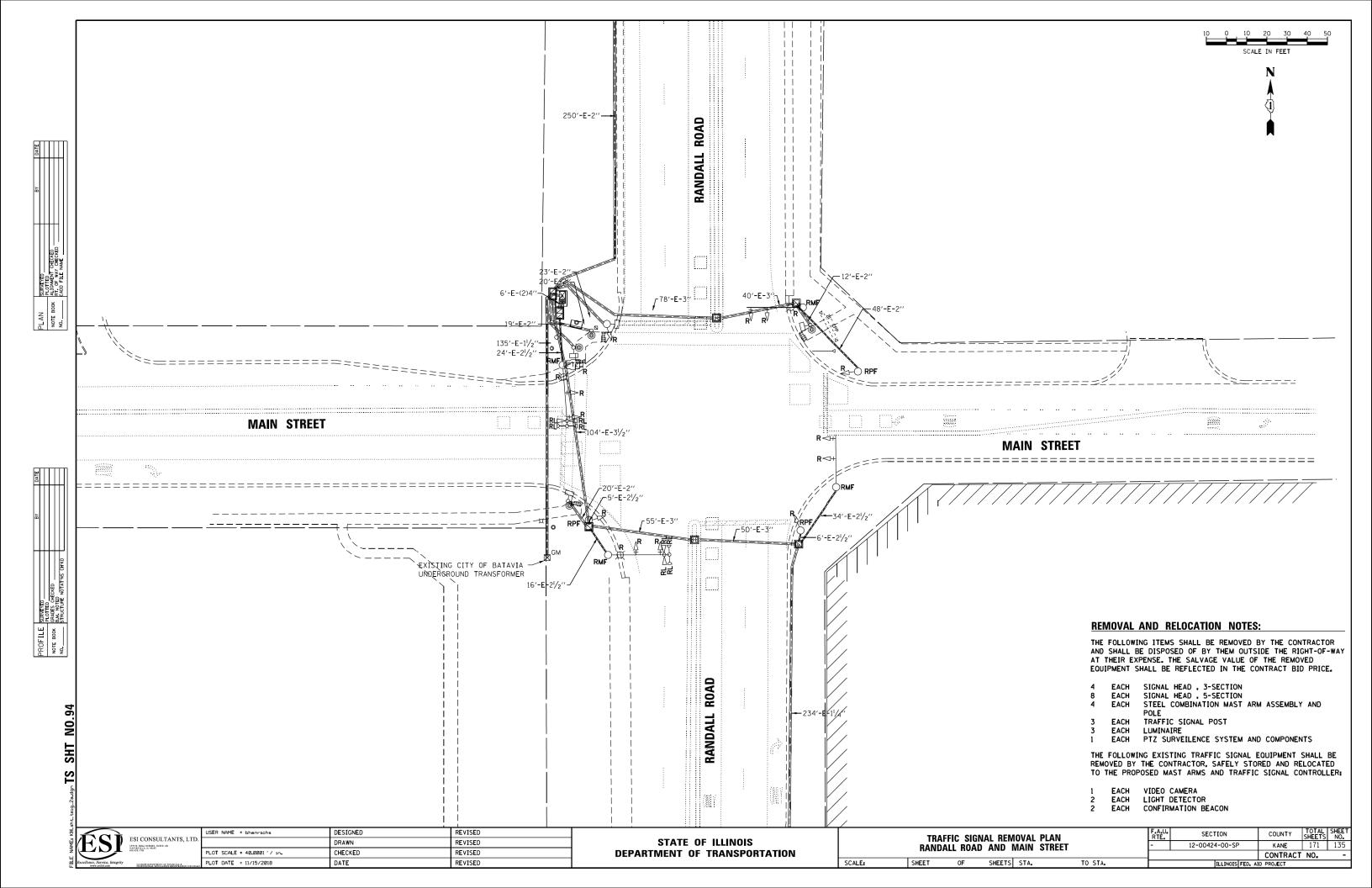
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

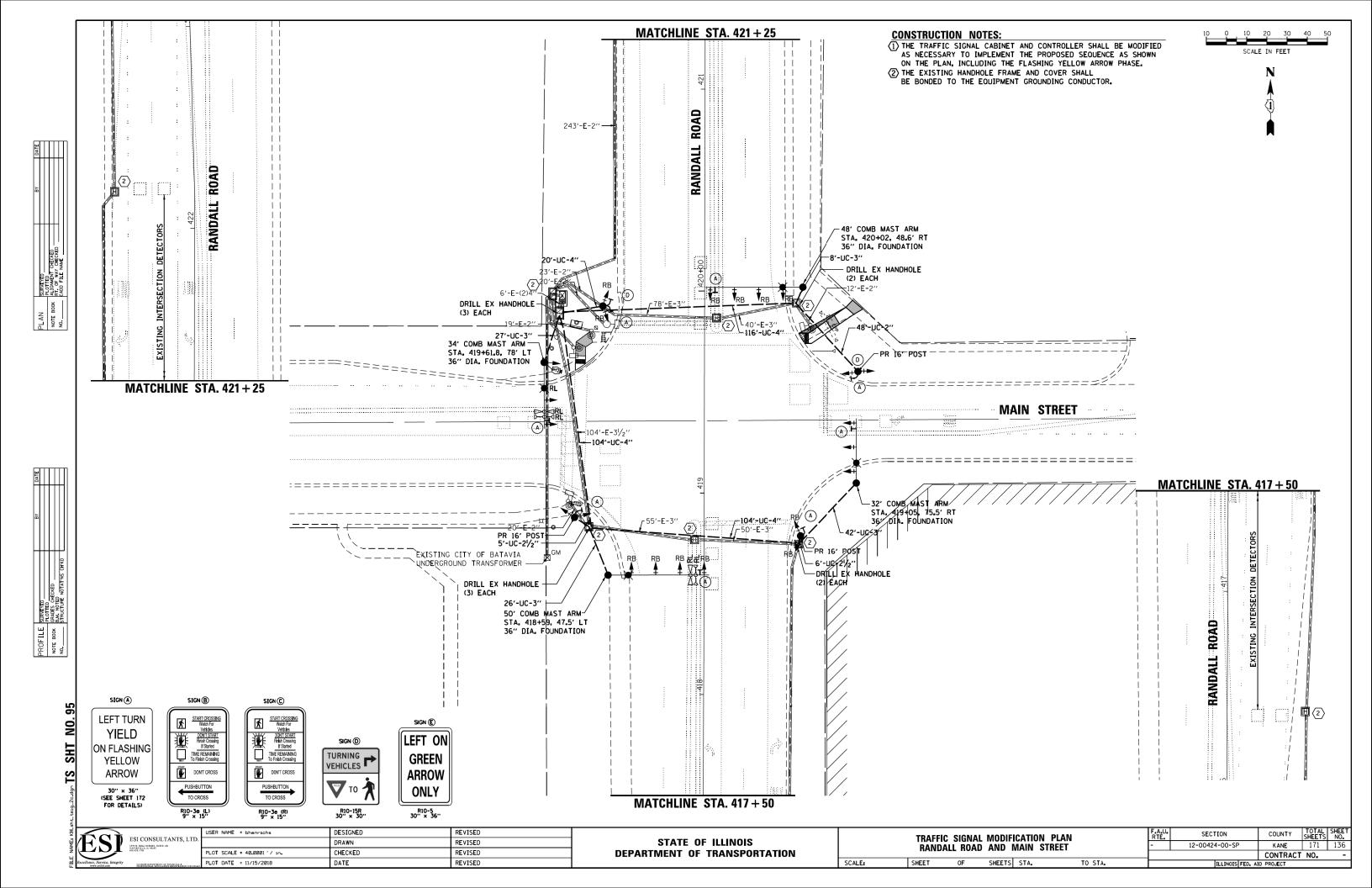
SCHEDULE OF QUANTITIES AND MAST ARM MOUNTED STREET NAME SIGN RANDALL ROAD AND ORCHARD ROAD / MOOSEHEART ROAD E: SHEET NO. OF SHEETS STA. TO STA. SCHEDULE OF QUANTITIES RTE. SECTION COUNTY TOTAL SHEETS NO. VAR. 12-00424-00-SP KANE 171 134 CONTRACT NO. 61E74

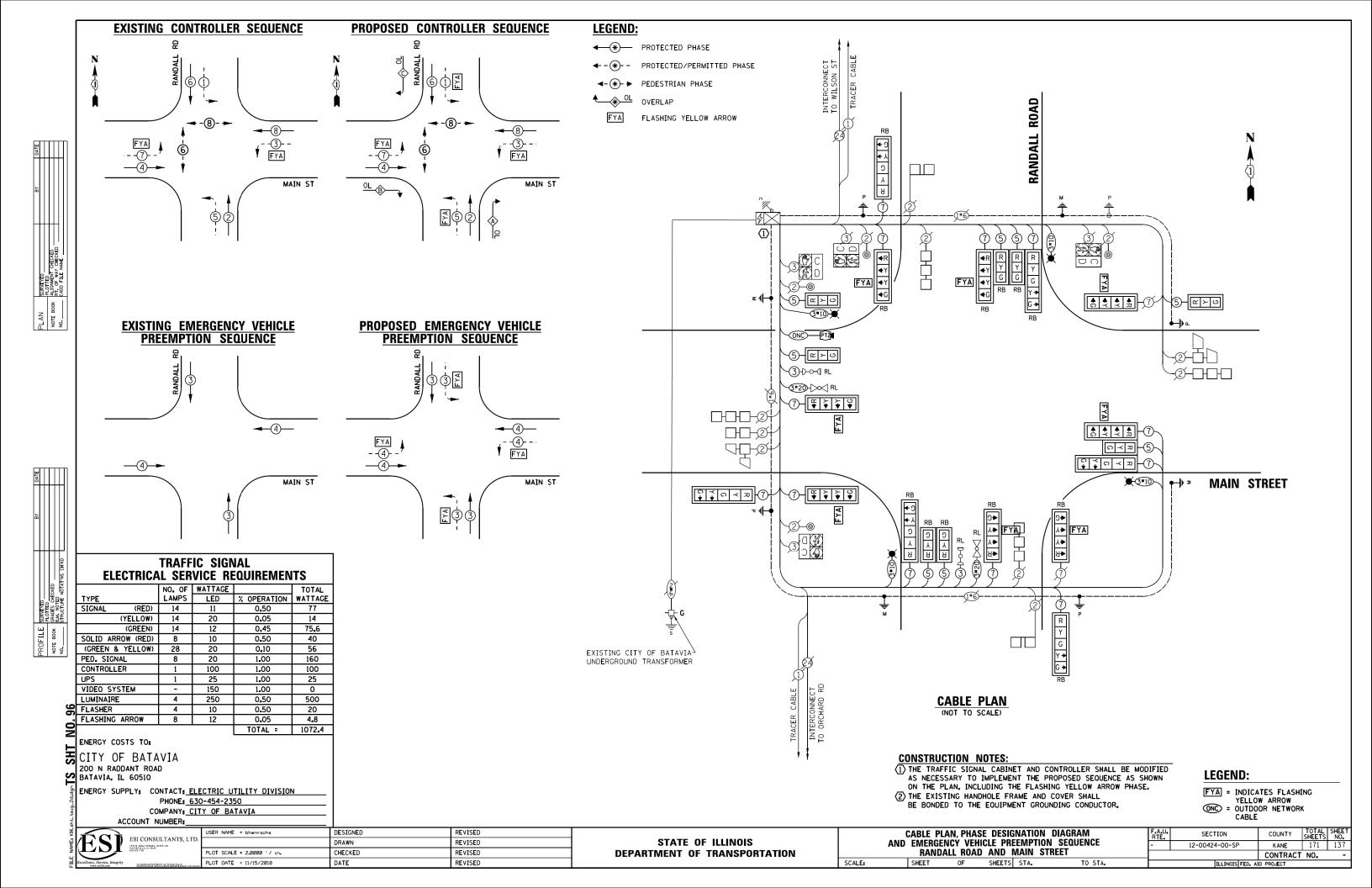
SCHEDULE OF QUANTITIES

	ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1		SQ FT	60.0
SIGN PANEL - TYPE 2		SQ FT	81.5
UNDERGROUND CONDUIT, PVC	, 3" DIA.	FOOT	65.0
UNDERGROUND CONDUIT, PVC	, 4" DIA.	FOOT	432.0
ELECTRIC CABLE IN CONDUIT, 6		FOOT	3,161.0
MAINTENANCE OF EXISTING TR	AFFIC SIGNAL INSTALLATION	EACH	1.0
GROUNDING EXISTING HANDHO		EACH	14.0
ELECTRIC CABLE IN CONDUIT, S	SIGNAL NO. 14 3C	FOOT	657.0
ELECTRIC CABLE IN CONDUIT, S		FOOT	3,453.0
ELECTRIC CABLE IN CONDUIT, S		FOOT	1,974.0
	EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C		1,249.5
TRAFFIC SIGNAL POST, GALVAN		EACH	1.0
STEEL MAST ARM ASSEMBLY A		EACH	1.0
STEEL COMBINATION MAST ARI		EACH	
STEEL COMBINATION MAST ARI	M ASSEMBLY AND POLE 50 FT.	EACH	1.0
STEEL COMBINATION MAST ARI	M ASSEMBLY AND POLE 58 FT.	EACH	1.0
STEEL COMBINATION MAST ARI		EACH	1.0
CONCRETE FOUNDATION, TYPE		FOOT	
CONCRETE FOUNDATION, TYPE		FOOT	
CONCRETE FOUNDATION, TYPE	E 42-INCH DIAMETER	FOOT	
DRILL EXISTING HANDHOLE		EACH	
SIGNAL HEAD, LED, 1-FACE, 3-S		EACH	9.0
SIGNAL HEAD, LED, 1-FACE, 3-S		EACH	4.0
SIGNAL HEAD, LED, 1-FACE, 4-S		EACH	2.0
SIGNAL HEAD, LED, 1-FACE, 4-S		EACH	2.0
SIGNAL HEAD, LED, 1-FACE, 5-S		EACH	2.0
SIGNAL HEAD, LED, 1-FACE, 5-S		EACH	
TRAFFIC SIGNAL BACKPLATE, R		EACH	21.0
	ICY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2.0
REMOVE ELECTRIC CABLE FRO		FOOT	10,607.5
REMOVE EXISTING TRAFFIC SIG		EACH	1.0
REMOVE EXISTING CONCRETE		EACH	3.0
RELOCATE VIDEO VEHICLE DET		EACH	1.0
	Y SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	
* ROD AND CLEAN EXISTING CON		FOOT	500.0
OUTDOOR RATED NETWORK CA		FOOT	185.0
TRAFFIC CONTROL AND PROTE		EACH	1.0
MODIFY EXISTING CONTROLLER		EACH	1.0
	MONITORING SYSTEM WITH PTZ CAMERA	EACH	1.0
*Naminal Quantity to be Hood as Directed b	v the Engineer		

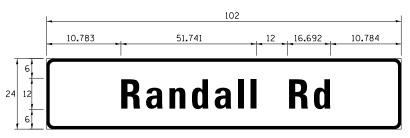
^{*}Nominal Quantity to be Used as Directed by the Engineer



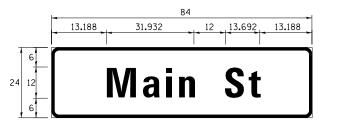




ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	17.0	2	ZZ	2



DESIGN	AREA	SIGN PANEL		
SERIES	(SQ FT)	TYPE		
D	17.0	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

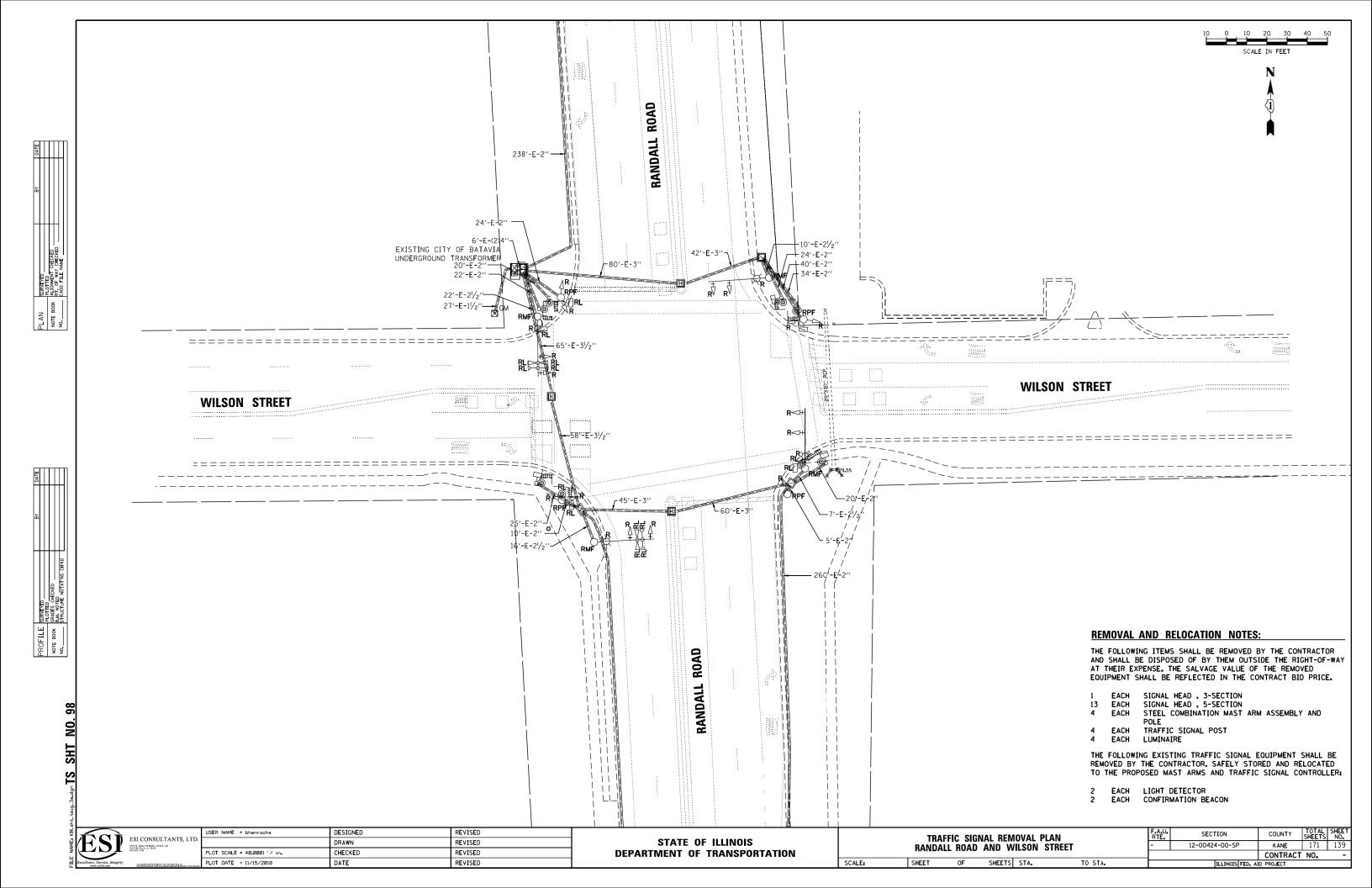
ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	72.5
SIGN PANEL - TYPE 2	SQ FT	68.0
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	151.0
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	324.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,175.0
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1.0
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	8.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	399.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,840.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,467.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,075.5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3.0
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1.0
CONCRETE FOUNDATION, TYPE A	FOOT	12.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	50.0
DRILL EXISTING HANDHOLE	EACH	10.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1.0
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4.0
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4.0
TRAFFIC SIGNAL BACKPLATE	EACH	8.0
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	10.0
* DETECTOR LOOP, TYPE I	FOOT	300.0
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	4.0
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	4.0
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2.0
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6,185.0
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7.0
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	303.5
* ROD AND CLEAN EXISTING CONDUIT	FOOT	500.0
OUTDOOR RATED NETWORK CABLE	FOOT	96.0
TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	1.0
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1.0
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1.0
*Nominal Quantity to be Used as Directed by the Engineer		

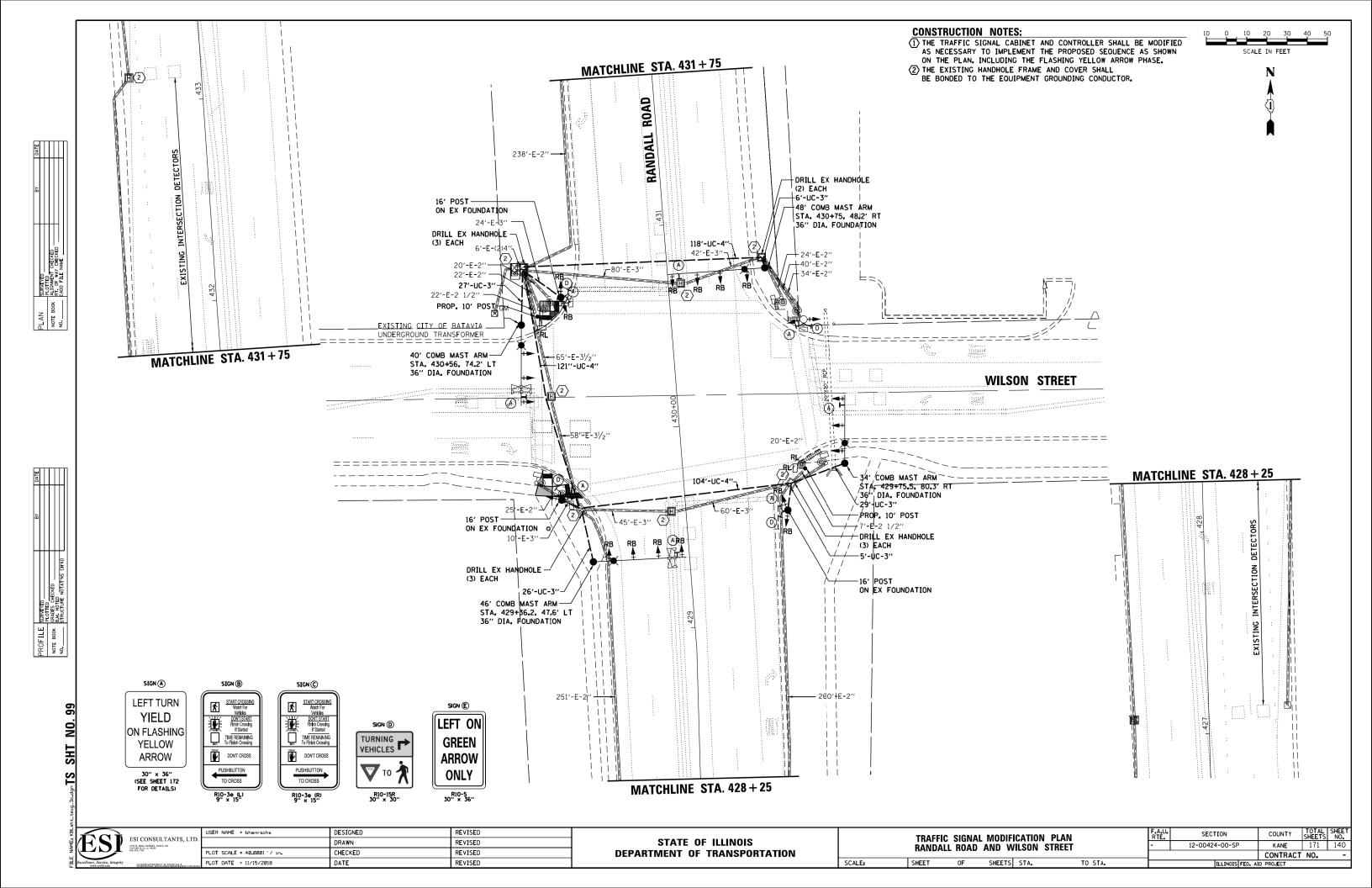
NO 97

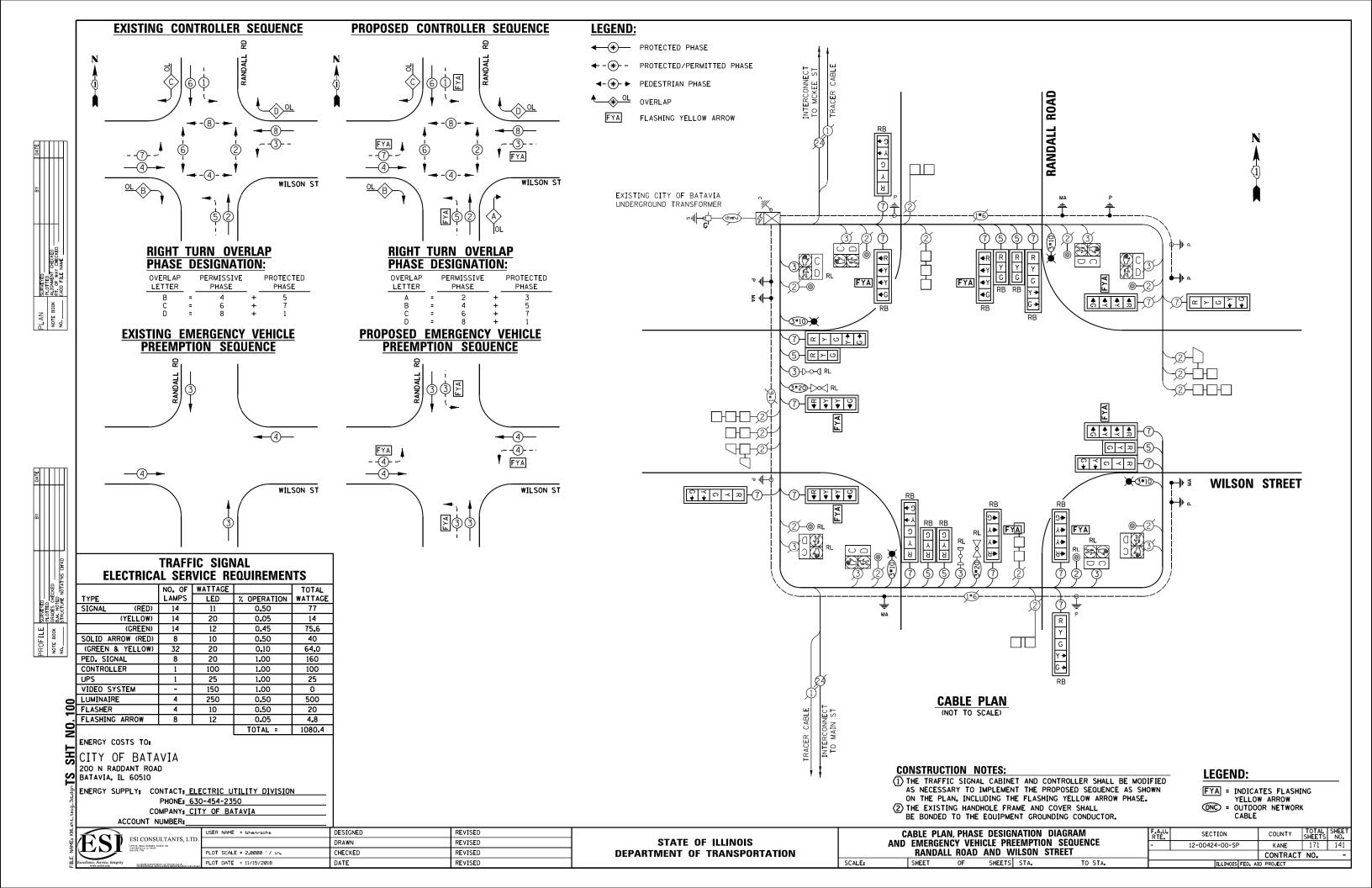
S SHT NO.9

E NAME	USER NAME = fbariso	DESIGNED -	TFS	REVISED
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	PLOT DATE = 11/16/2018	DATE -	11/1 <u>6/2018</u>	REVISED

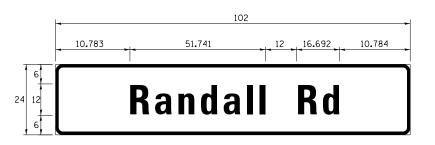
SCHEDULE OF QUANTIT		F.A.P. RTE.	SECT	ΓΙΟΝ		COUNTY	TOTAL	SHEET NO.
ND MAST ARM MOUNTED STREET NAME SIGN		VAR.	12-00424	-00-SP		KANE	171	138
RANDALL ROAD AND MAIN	STREET					CONTRACT	NO. 6	1E74
SHEET NO OF SHEETS STA.	TO STA	FED. RO	OAD DIST. NO	ILL INO IS F	ED. AID	PROJECT	HSIP-W	3HX(781)



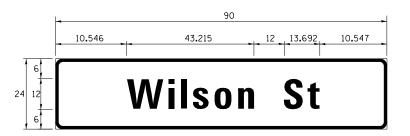




ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	17.0	1	ZZ	2



DESIGN	AREA	SIGN PANEL	SHEETING	OTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	15.0	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	85.0
SIGN PANEL - TYPE 2	SQ FT	64.0
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	88.0
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	343.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,565.0
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1.0
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	9.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	343.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	801.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,800.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,078.5
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,121.5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2.0
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1.0
CONCRETE FOUNDATION, TYPE A	FOOT	8.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	50.0
DRILL EXISTING HANDHOLE	EACH	10.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7.0
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4.0
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4.0
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3.0
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3.0
TRAFFIC SIGNAL BACKPLATE	EACH	9.0
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	10.0
* DETECTOR LOOP, TYPE I	FOOT	400.0
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	3.0
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	2.0
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2.0
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7,940.5
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4.0
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	352.0
* ROD AND CLEAN EXISTING CONDUIT	FOOT	500.0
TRAFFIC CONTROL AND PROTECTION. (SPECIAL)	EACH	1.0
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1.0
*Nominal Quantity to be Used as Directed by the Engineer		

USER NAME = fbariso DESIGNED - TFS REVISED -DRAWN - FPB ESI_Sheet-12_GTY_Randall-Wilson REVISED -PLOT SCALE = 40' CHECKED - GMZ REVISED -PLOT DATE = 11/16/2018 DATE - 11/16/2018 REVISED -

SCALE:

SCHEDULE OF QUANTITIES

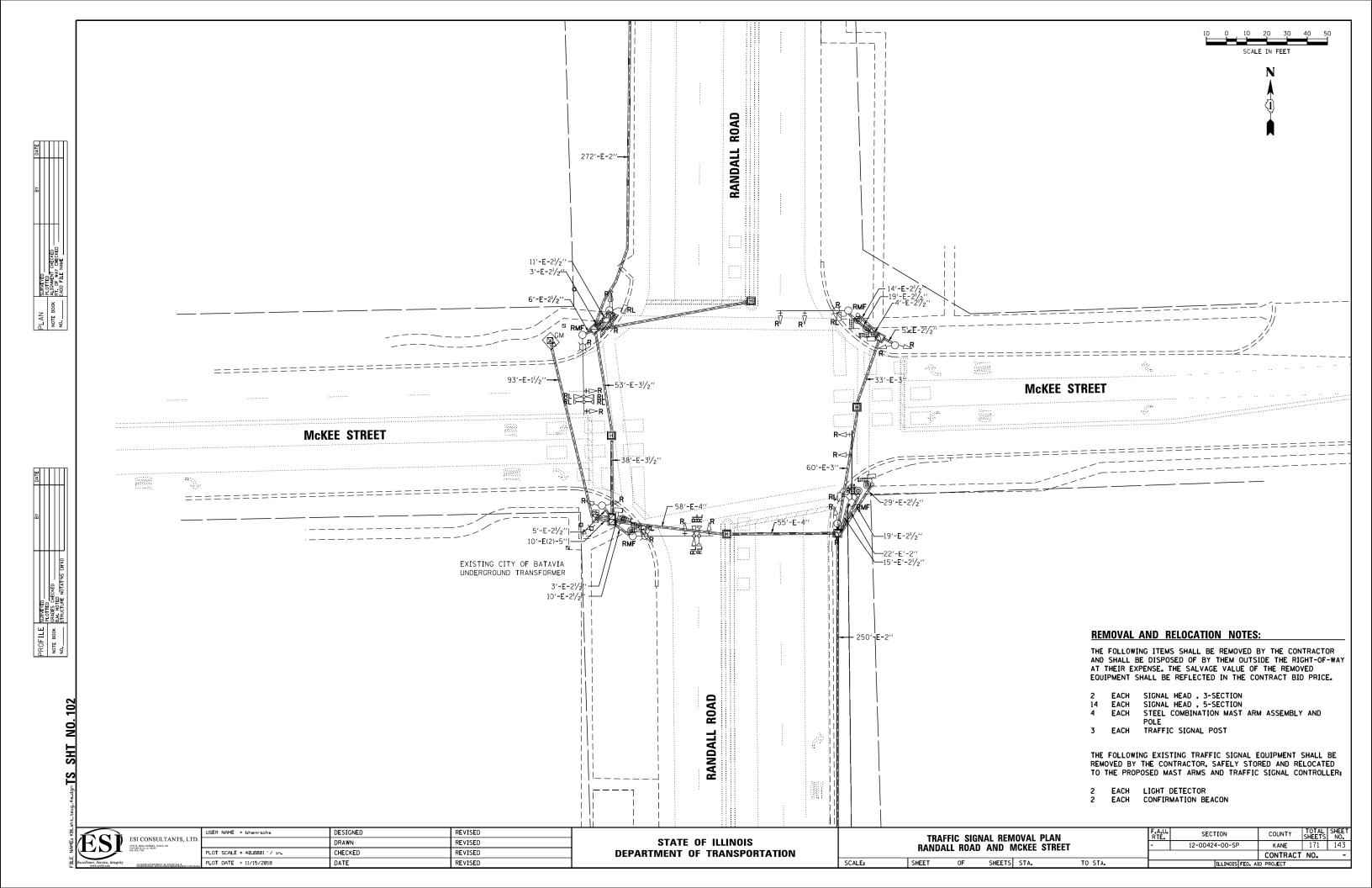
AND MAST ARM MOUNTED STREET NAME SIGN
RANDALL ROAD AND WILSON STREET

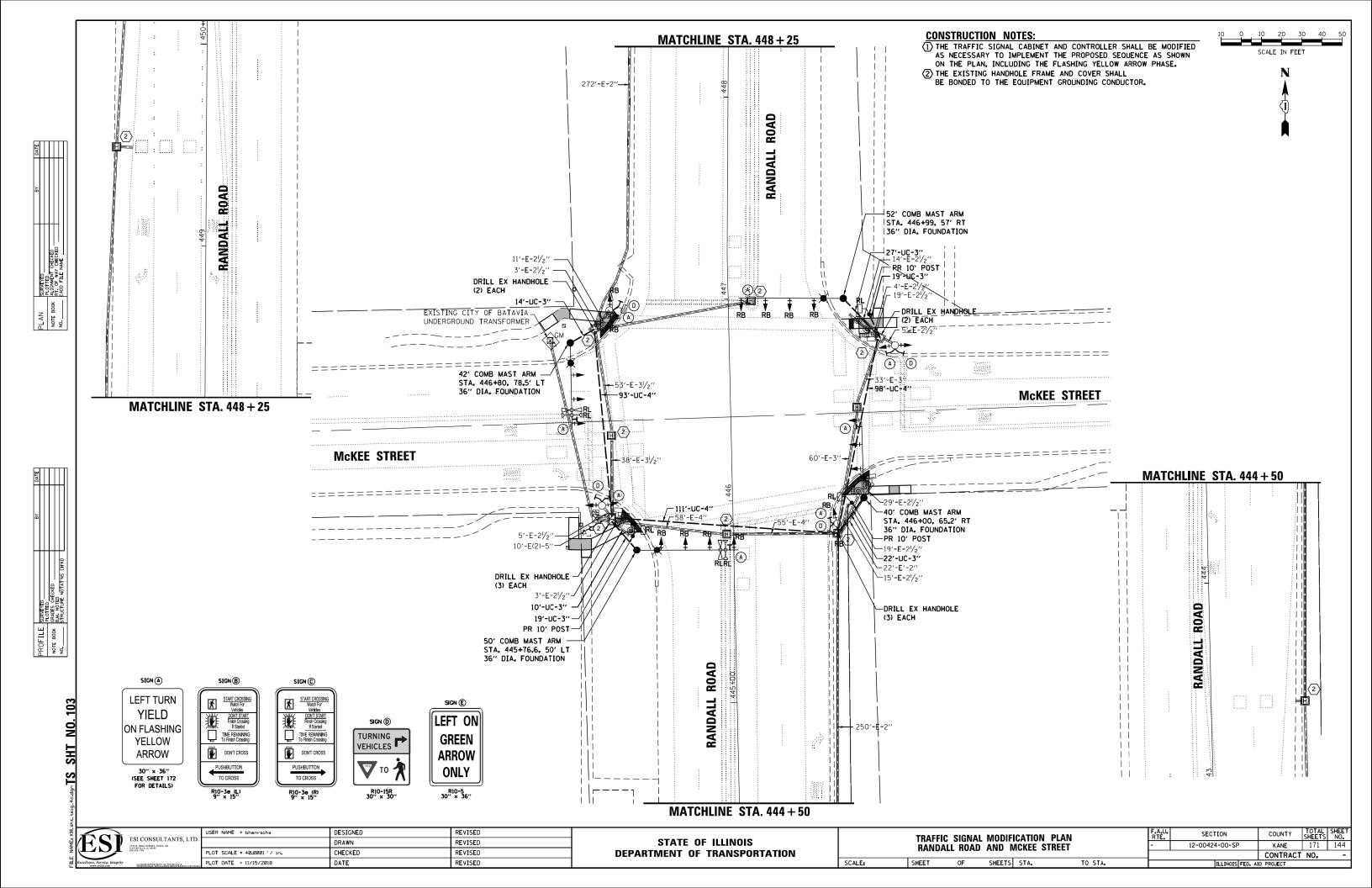
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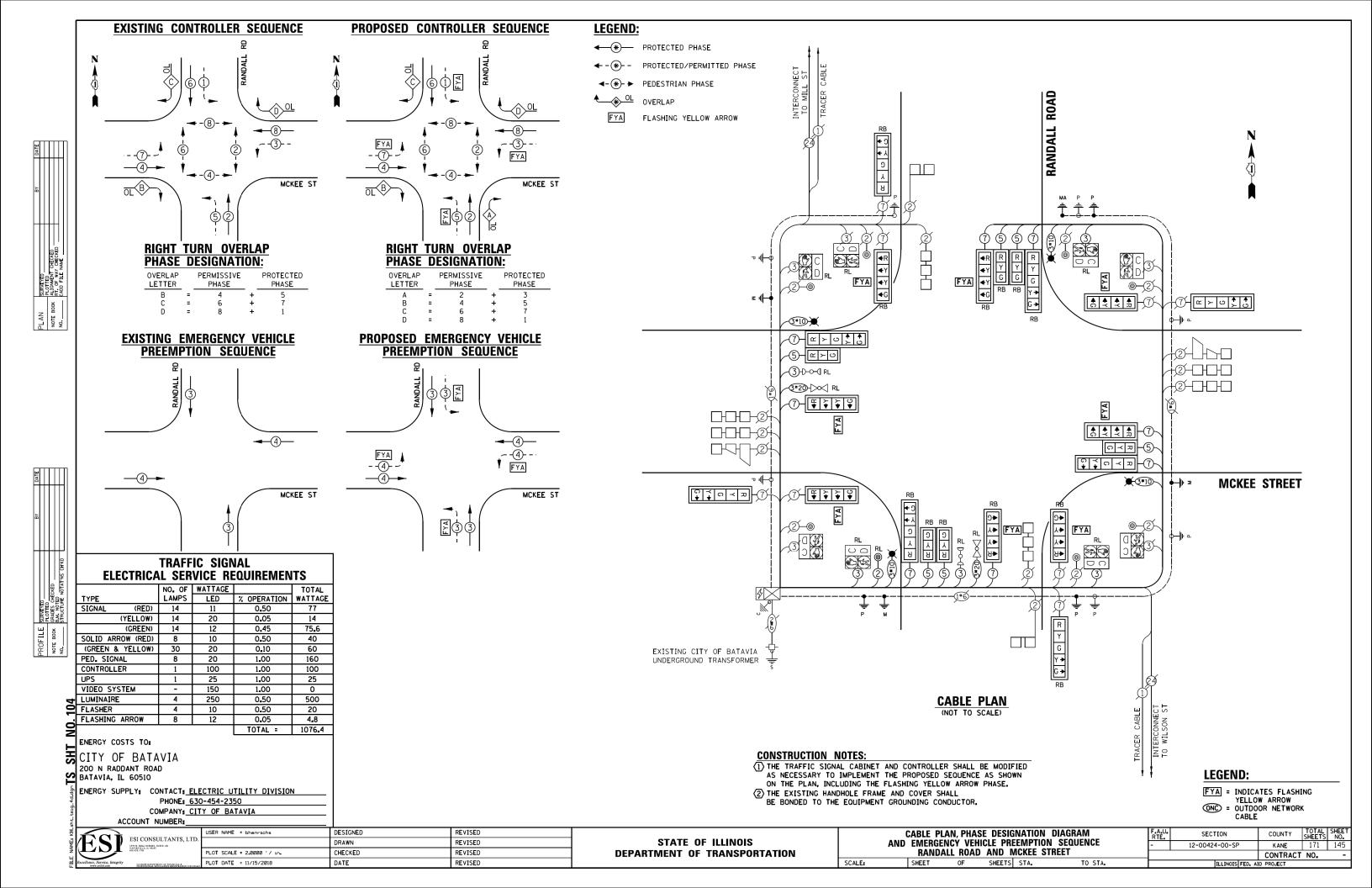
SECTION COUNTY 12-00424-00-SP KANE 171 142 VAR. CONTRACT NO. 61E74

FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | HSIP-W3HX(781)

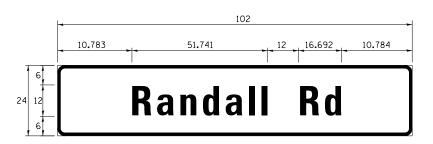
STATE OF ILLINOIS



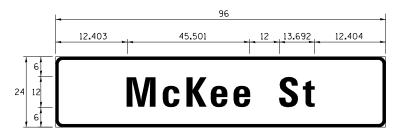




ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	17.0	2	ZZ	2



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	16.0	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	85.0
SIGN PANEL - TYPE 2	SQ FT	66.0
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	302.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,301.0
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1.0
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	10.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	78.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	863.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,091.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,975.5
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,012.0
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	3.0
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1.0
CONCRETE FOUNDATION, TYPE A	FOOT	12.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	56.0
DRILL EXISTING HANDHOLE	EACH	9.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1.0
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4.0
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4.0
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3.0
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3.0
TRAFFIC SIGNAL BACKPLATE	EACH	10.0
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	12.0
* DETECTOR LOOP, TYPE I	FOOT	800.0
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	5.0
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	1.0
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2.0
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7,608.0
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4.0
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	298.0
* ROD AND CLEAN EXISTING CONDUIT	FOOT	500.0
TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	1.0
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1.0
*Nominal Quantity to be Used as Directed by the Engineer		

S SHT NO.105

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AND MAST ARM MOUNTED STREET NAME SIGN
RANDALL ROAD AND McKEE STREET

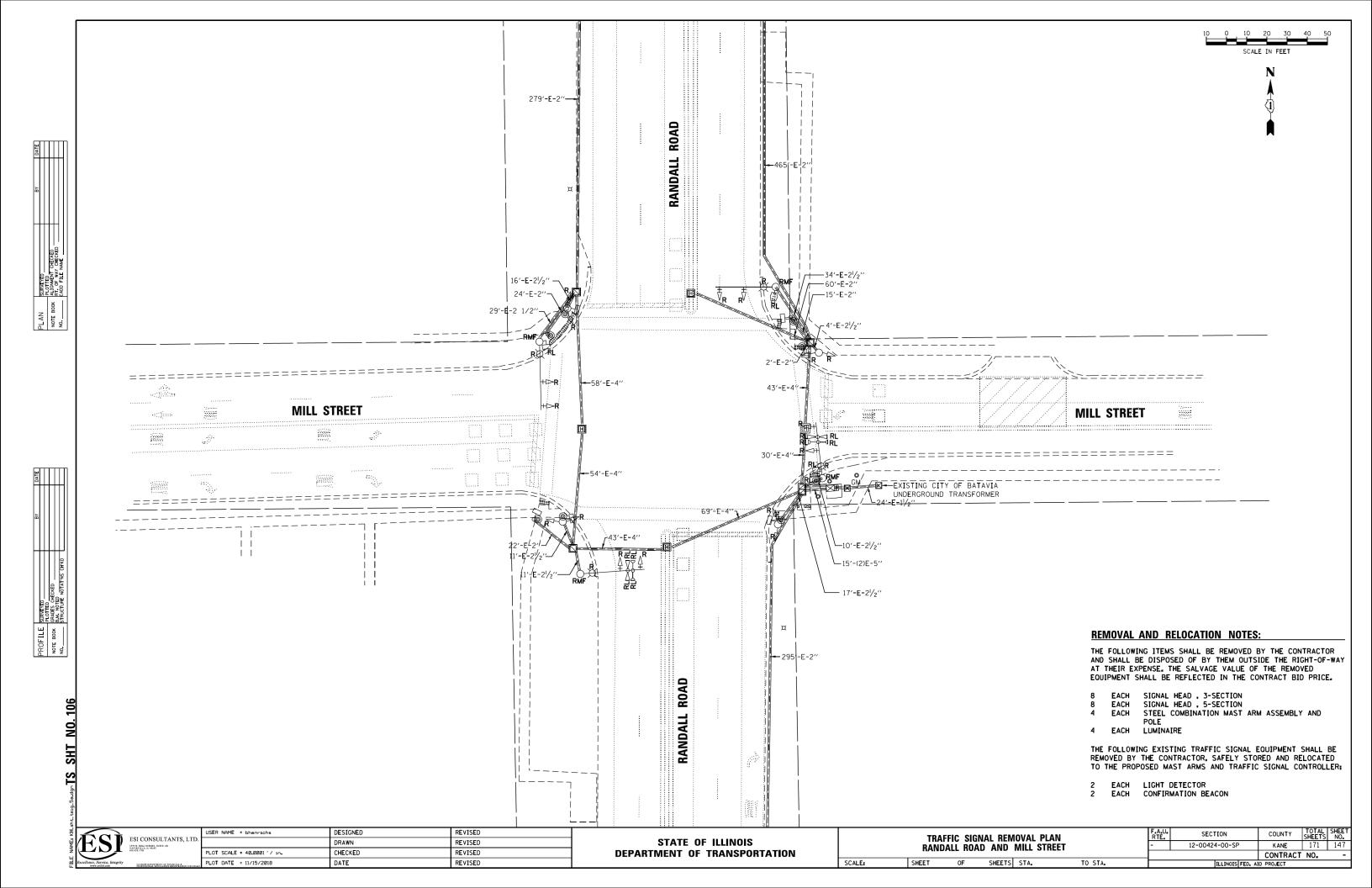
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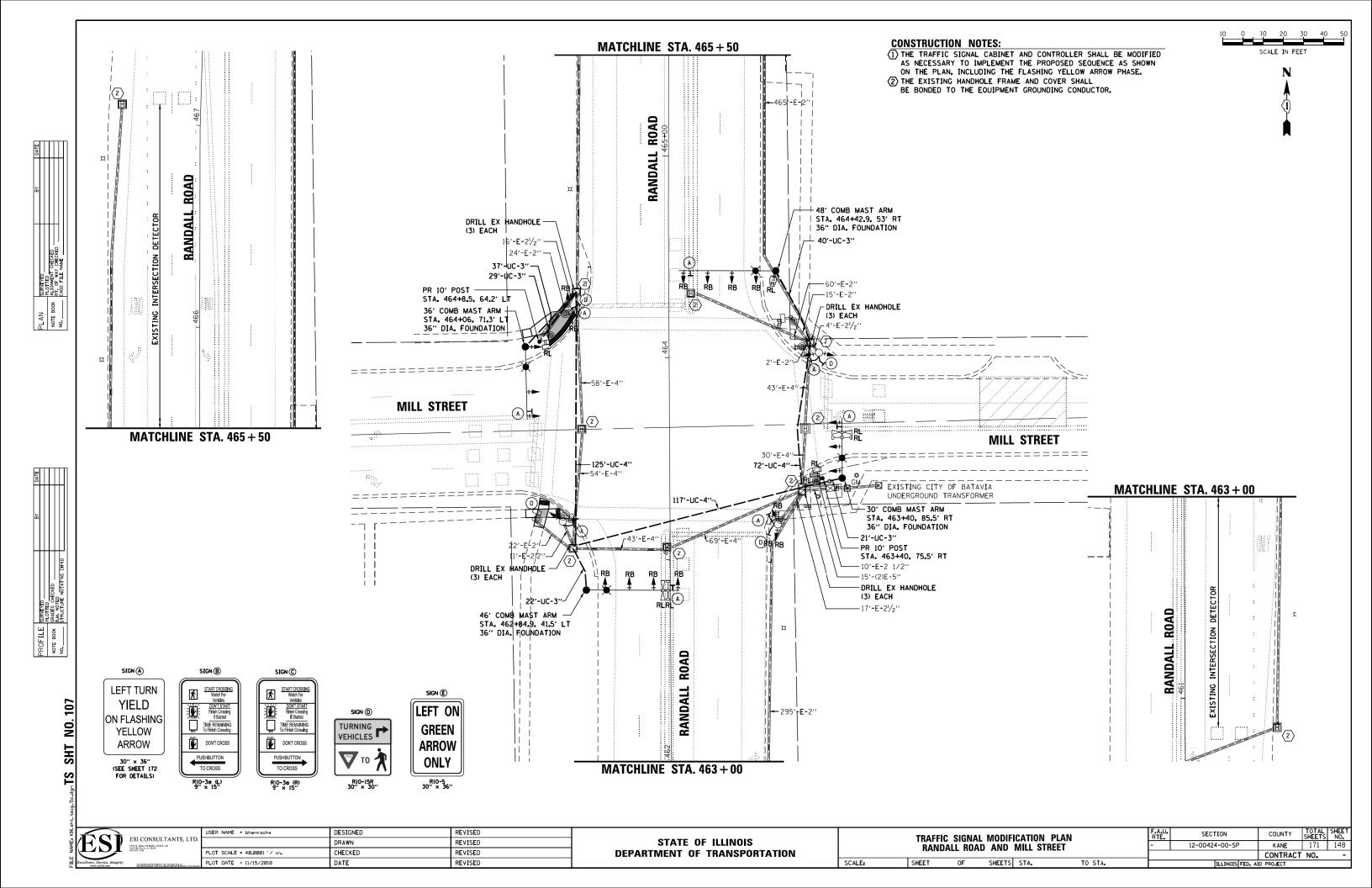
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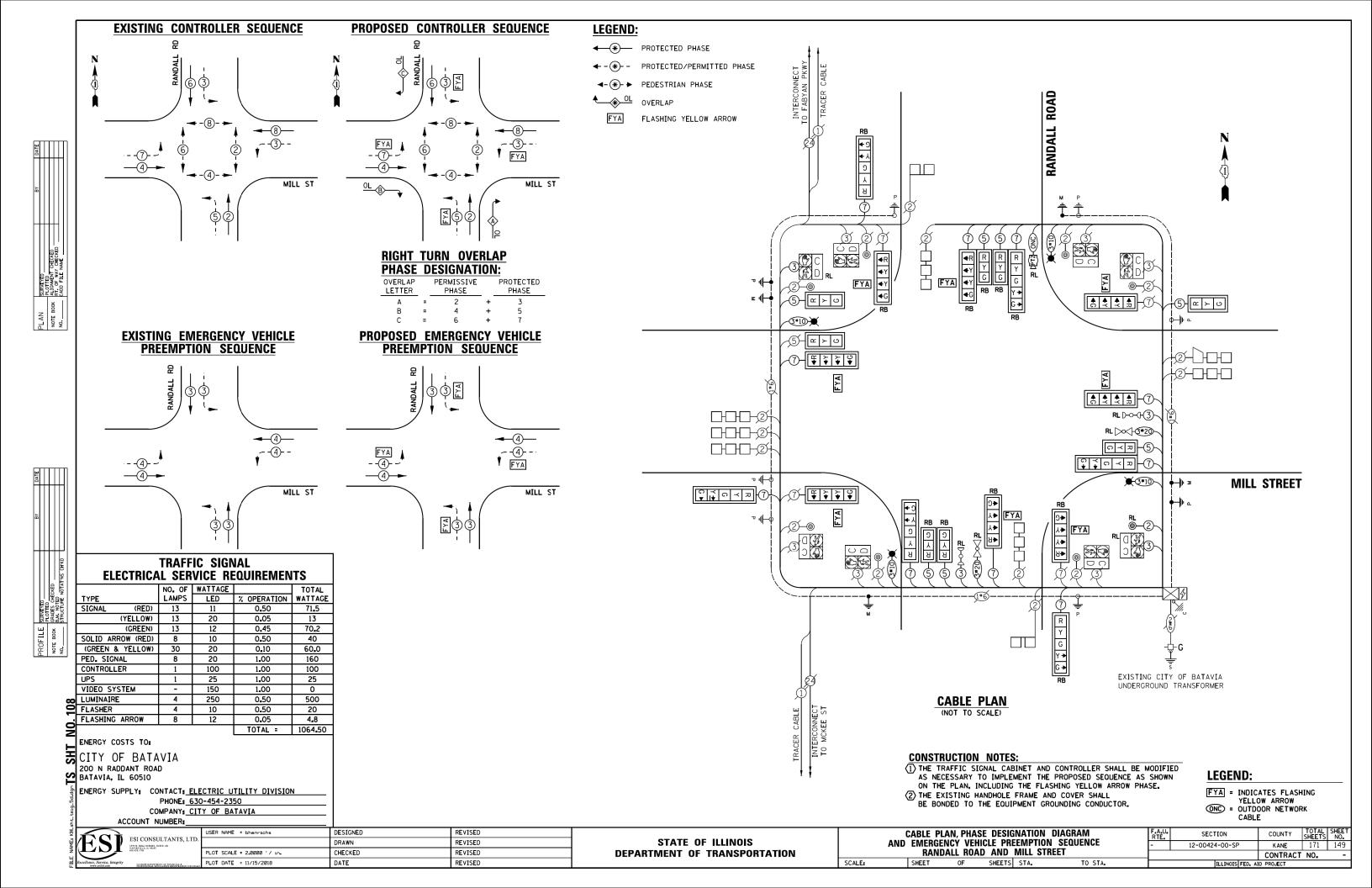
VAR. 12-00424-00-SP KANE 171 146

CONTRACT NO. 61E74

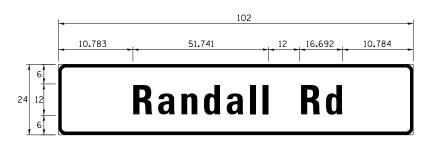
FED. ROAD DIST. NO. || ILLINOIS| FED. AID PROJECT HS|P-W3HX(781)



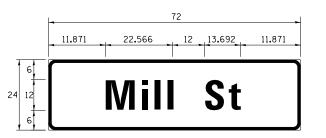




ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	17.0	2	ZZ	2



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	12.0	2	ZZ	2

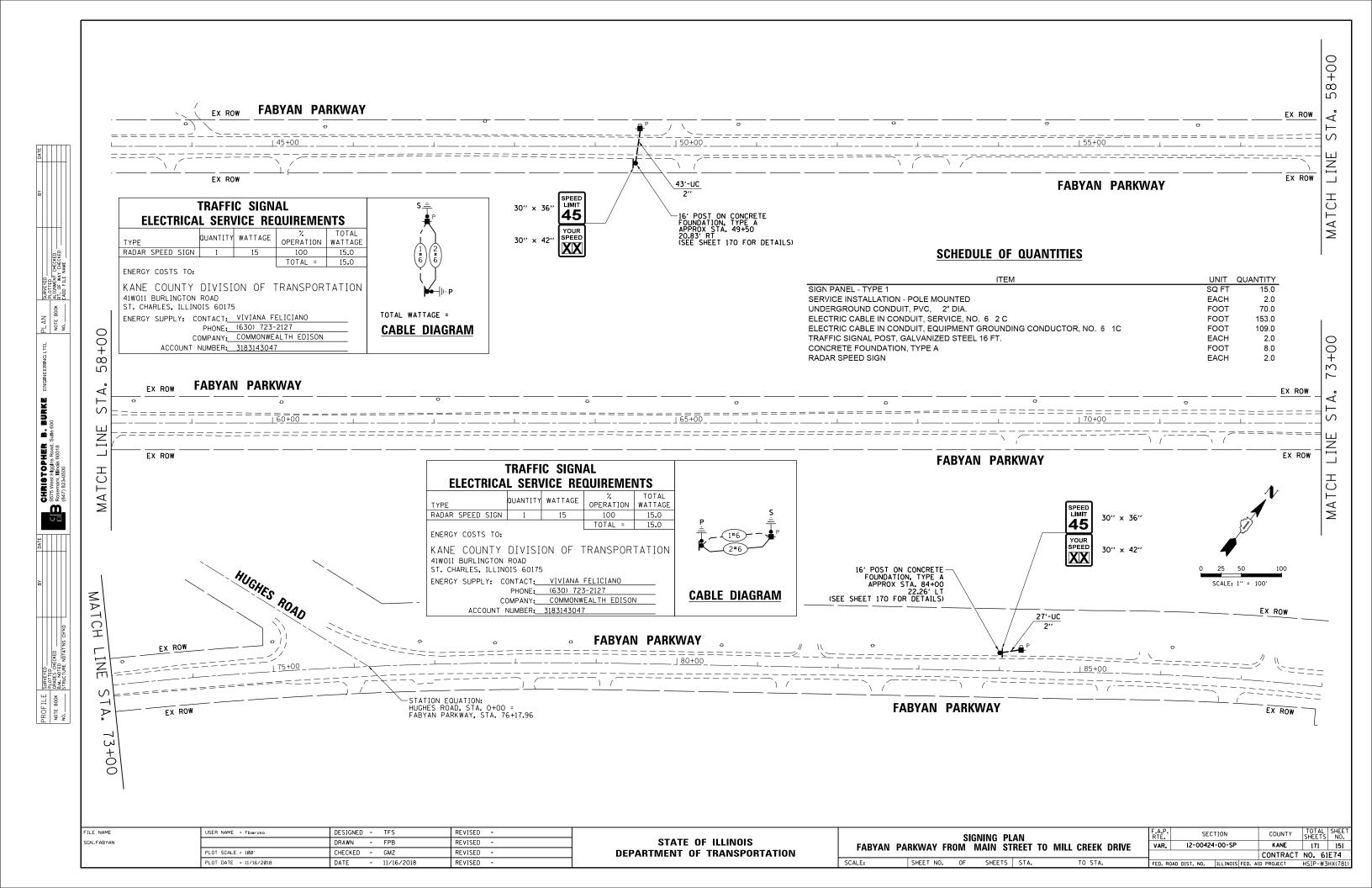
NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

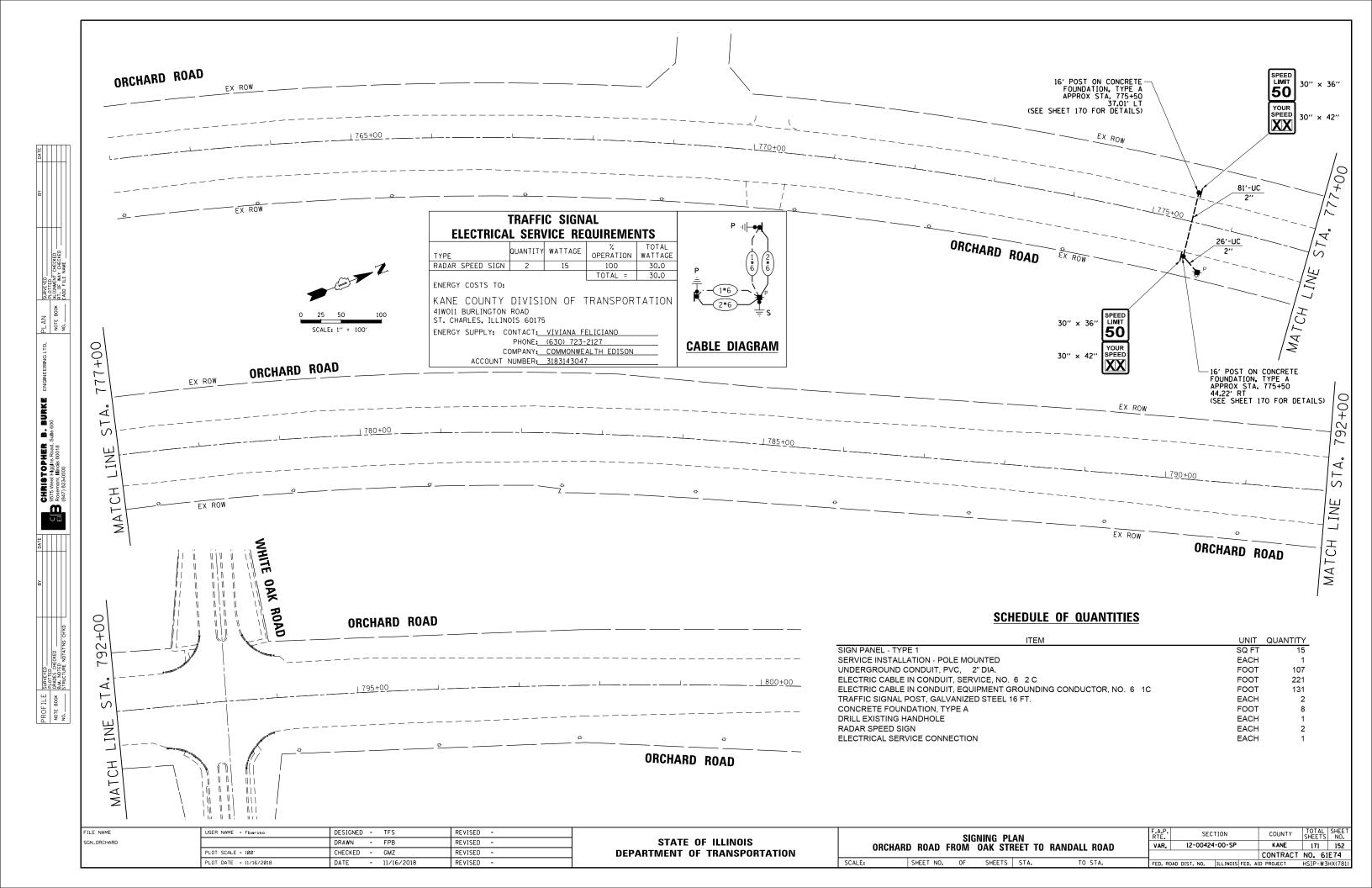
SCHEDULE OF QUANTITIES

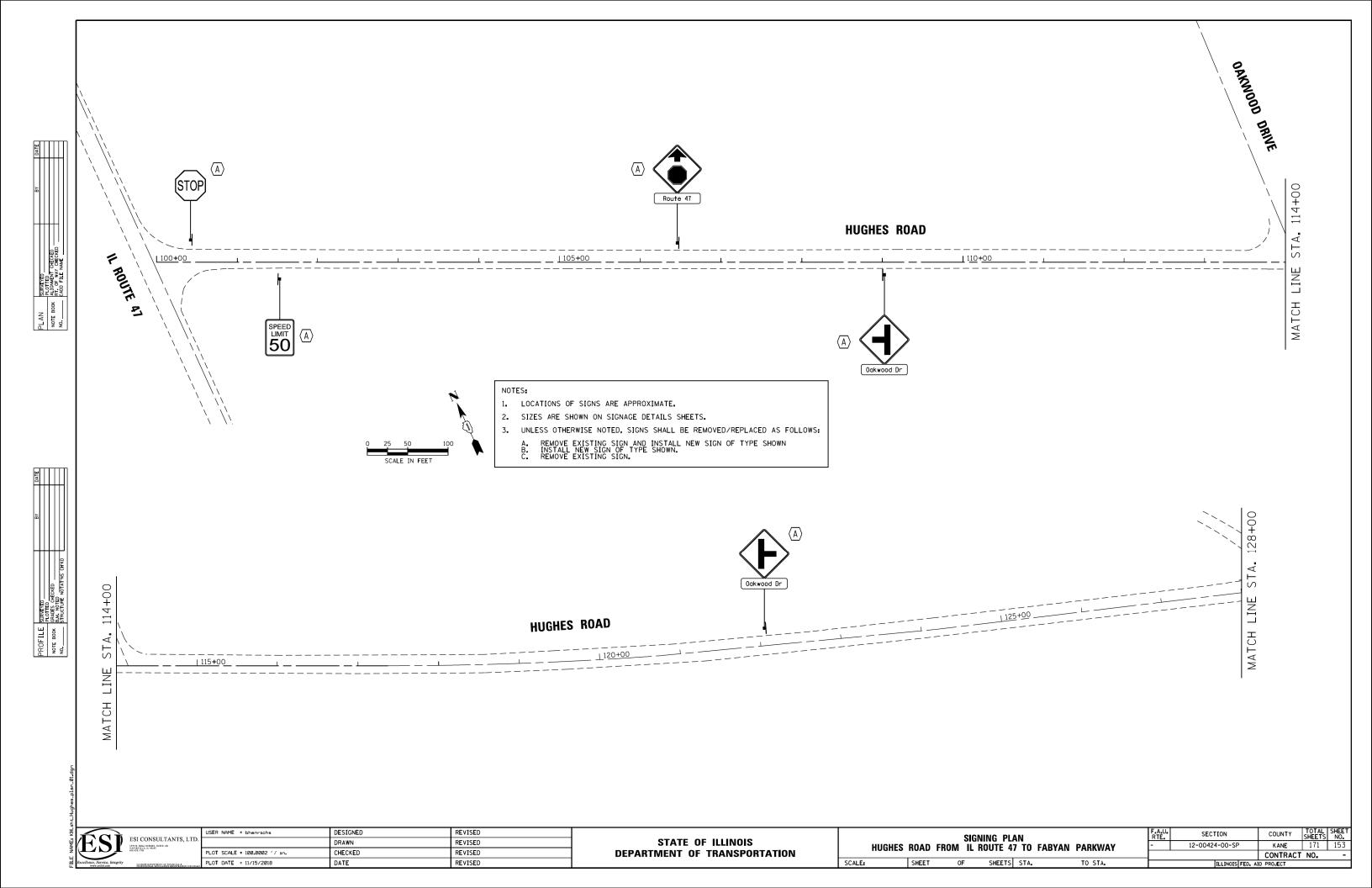
ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	85.0
SIGN PANEL - TYPE 2	SQ FT	58.0
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	83.0
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	314.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,577.0
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1.0
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	10.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	59.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	707.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,080.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,961.5
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,037.5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1.0
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1.0
CONCRETE FOUNDATION, TYPE A	FOOT	8.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	48.0
DRILL EXISTING HANDHOLE	EACH	10.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9.0
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4.0
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4.0
TRAFFIC SIGNAL BACKPLATE	EACH	
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	10.0
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2.0
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	1.0
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2.0
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7,938.5
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4.0
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	339.0
* ROD AND CLEAN EXISTING CONDUIT	FOOT	500.0
OUTDOOR RATED NETWORK CABLE	FOOT	214.5
TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	1.0
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1.0
RELOCATE EXISTING PTZ CAMERA	EACH	1.0
*Nominal Quantity to be Used as Directed by the Engineer		

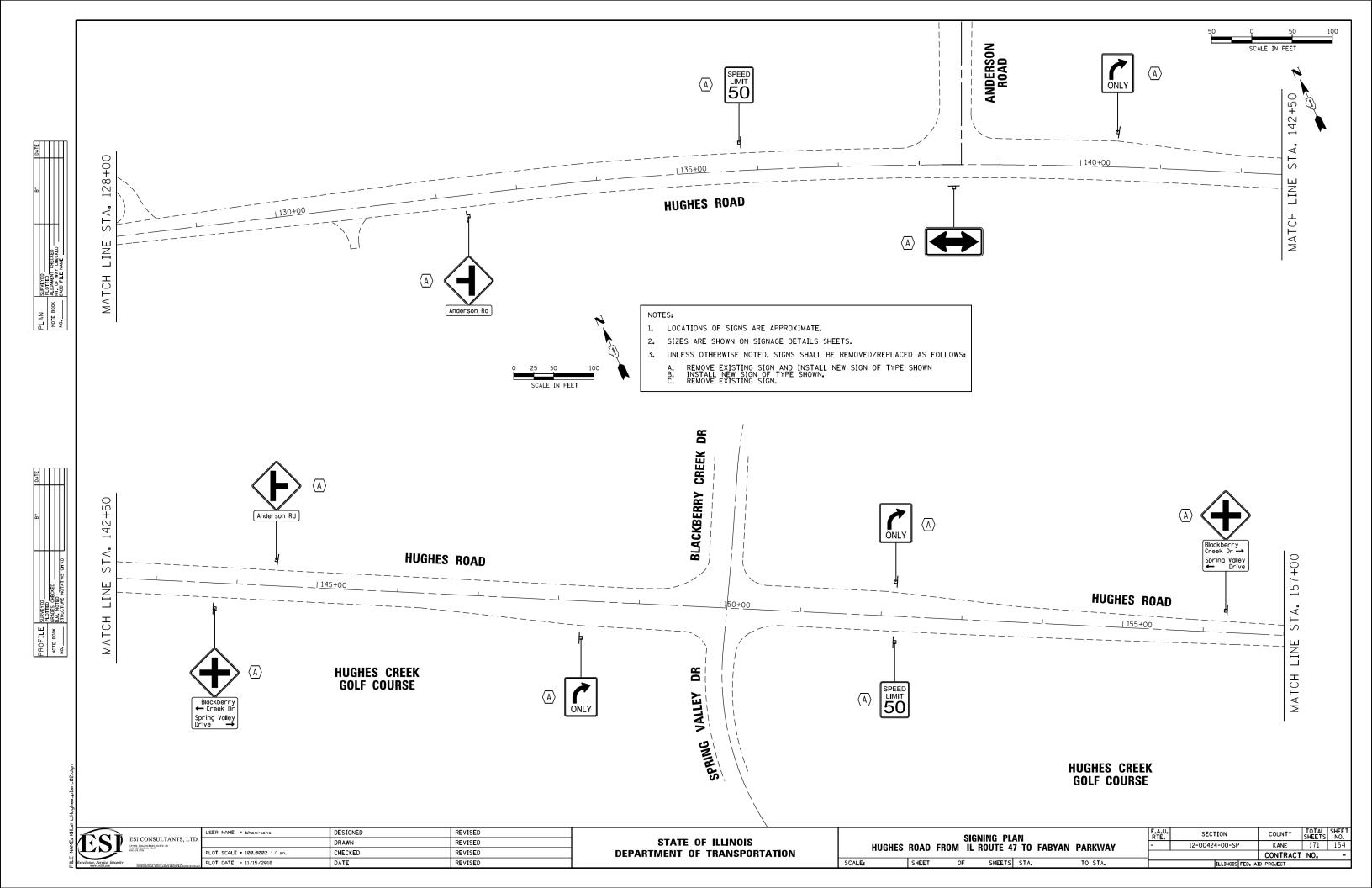
Nominal Quantity to be Used as Directed by the Engineer

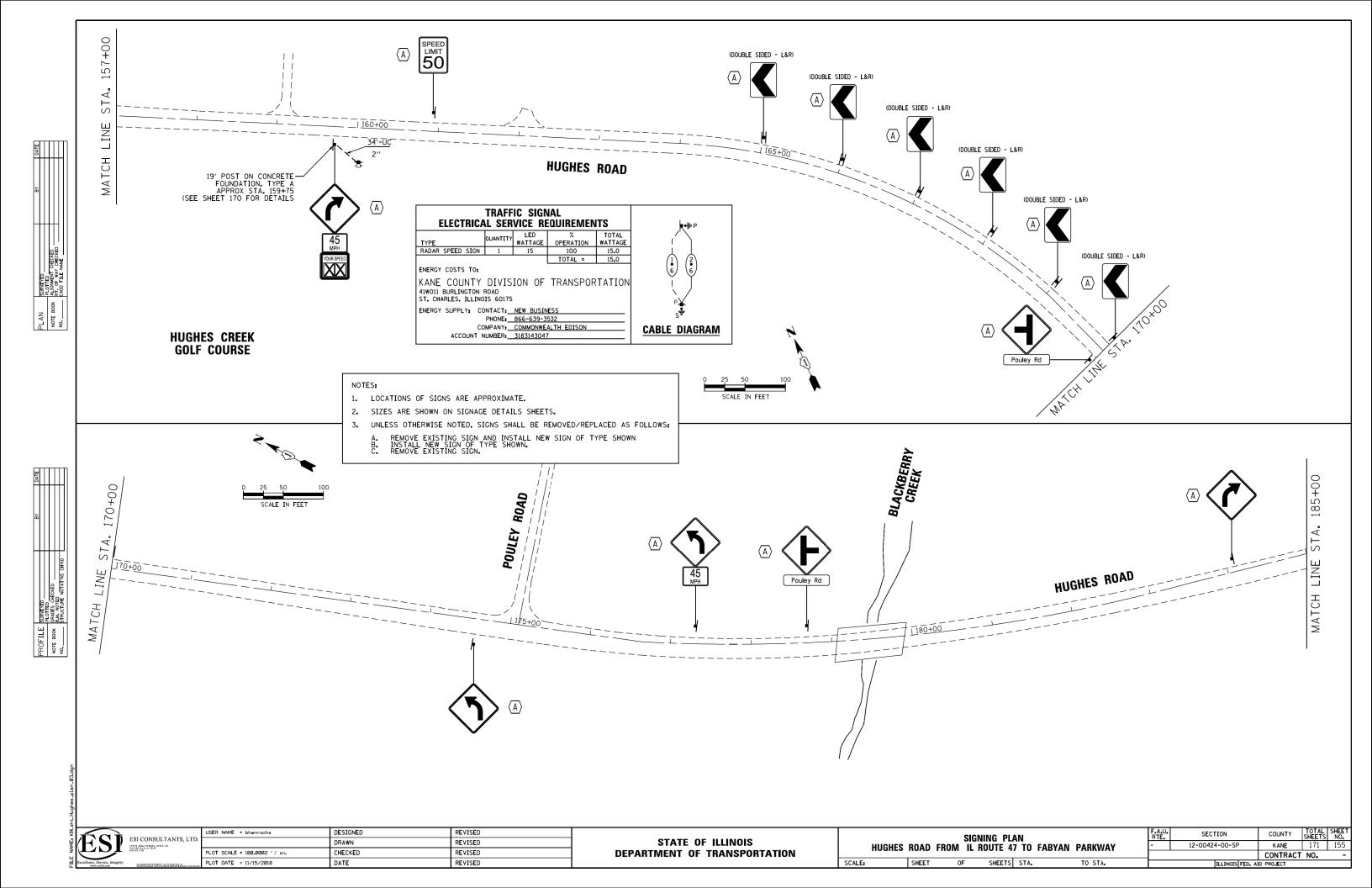
FILE NAME	USER NAME = fbariso	DESIGNED -	TFS	REVISED -
ESI_Sheet-20_QTY_Randall-Mill		DRAWN -	FPB	REVISED -
	PLOT SCALE = 40'	CHECKED -	GMZ	REVISED -
	PLOT DATE = 11/16/2018	DATE -	11/16/2018	REVISED -

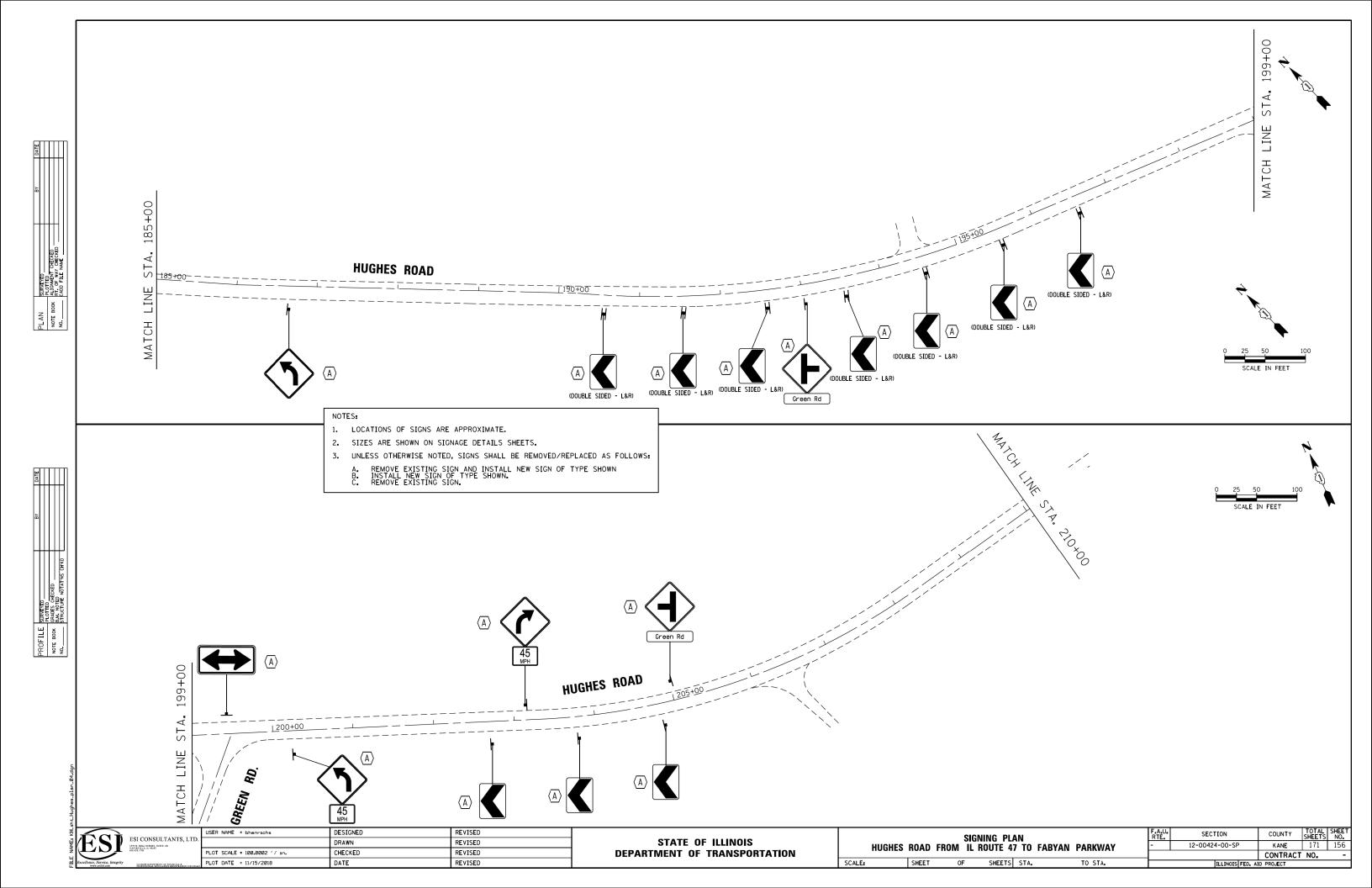


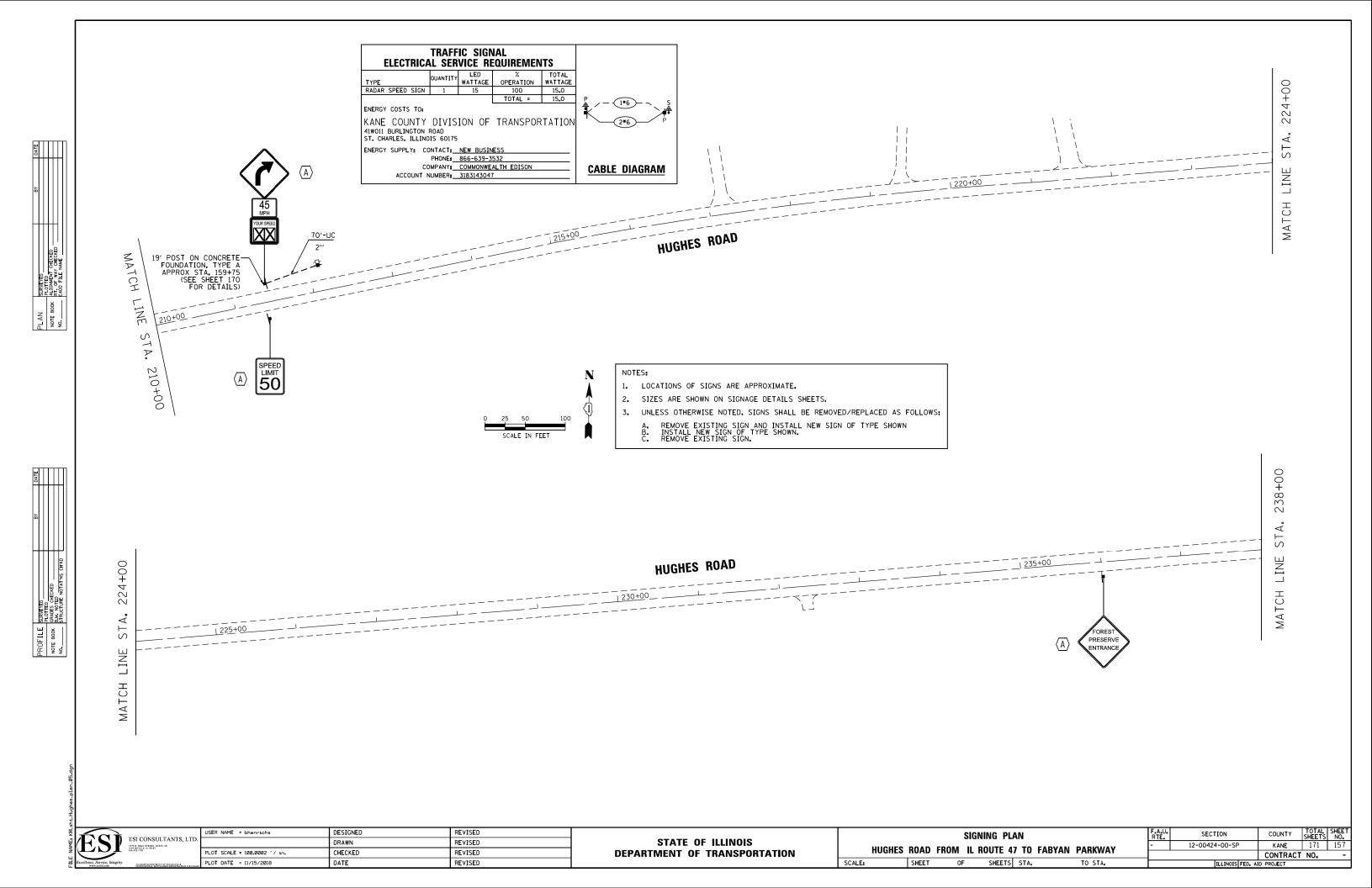


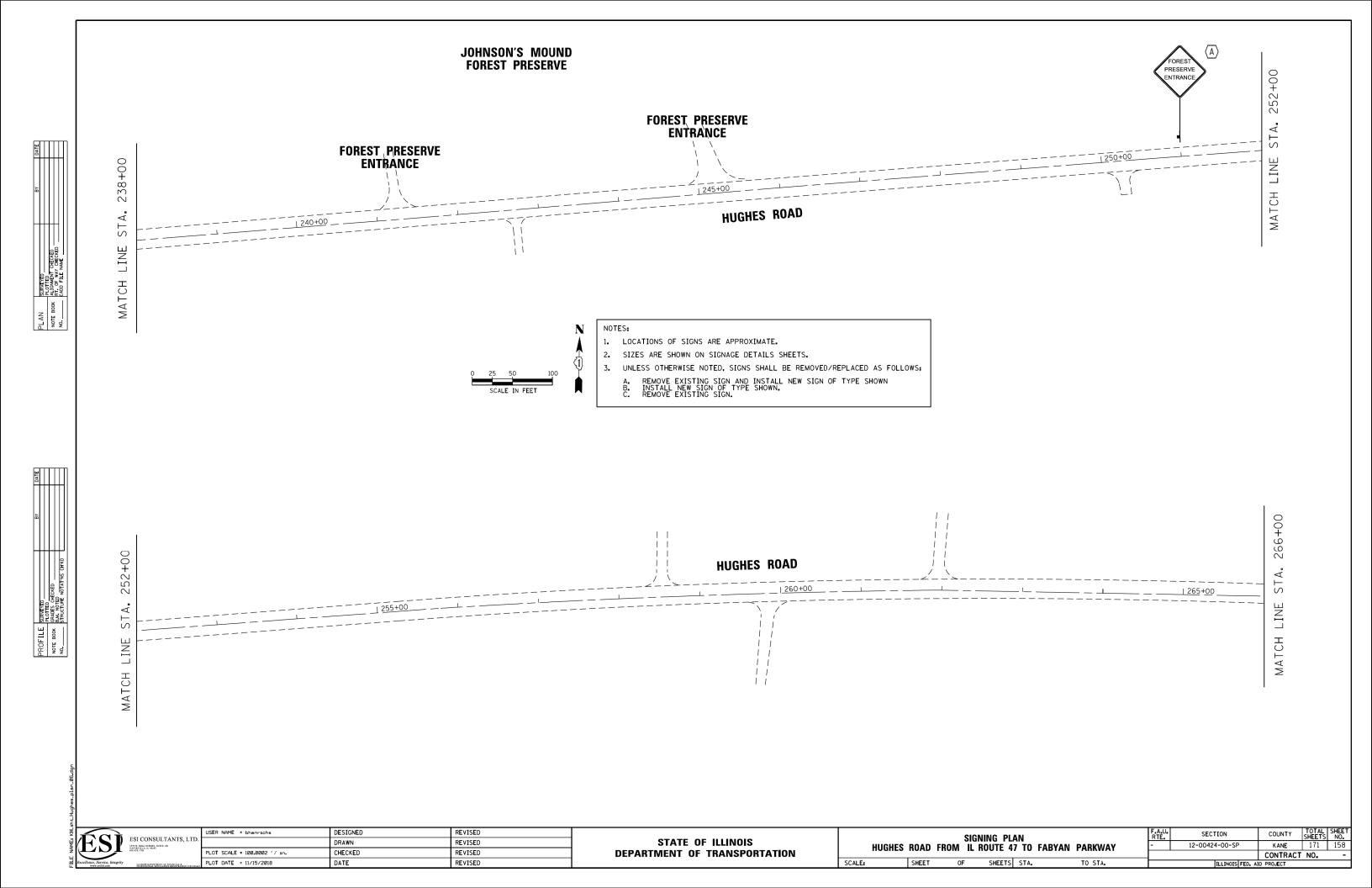


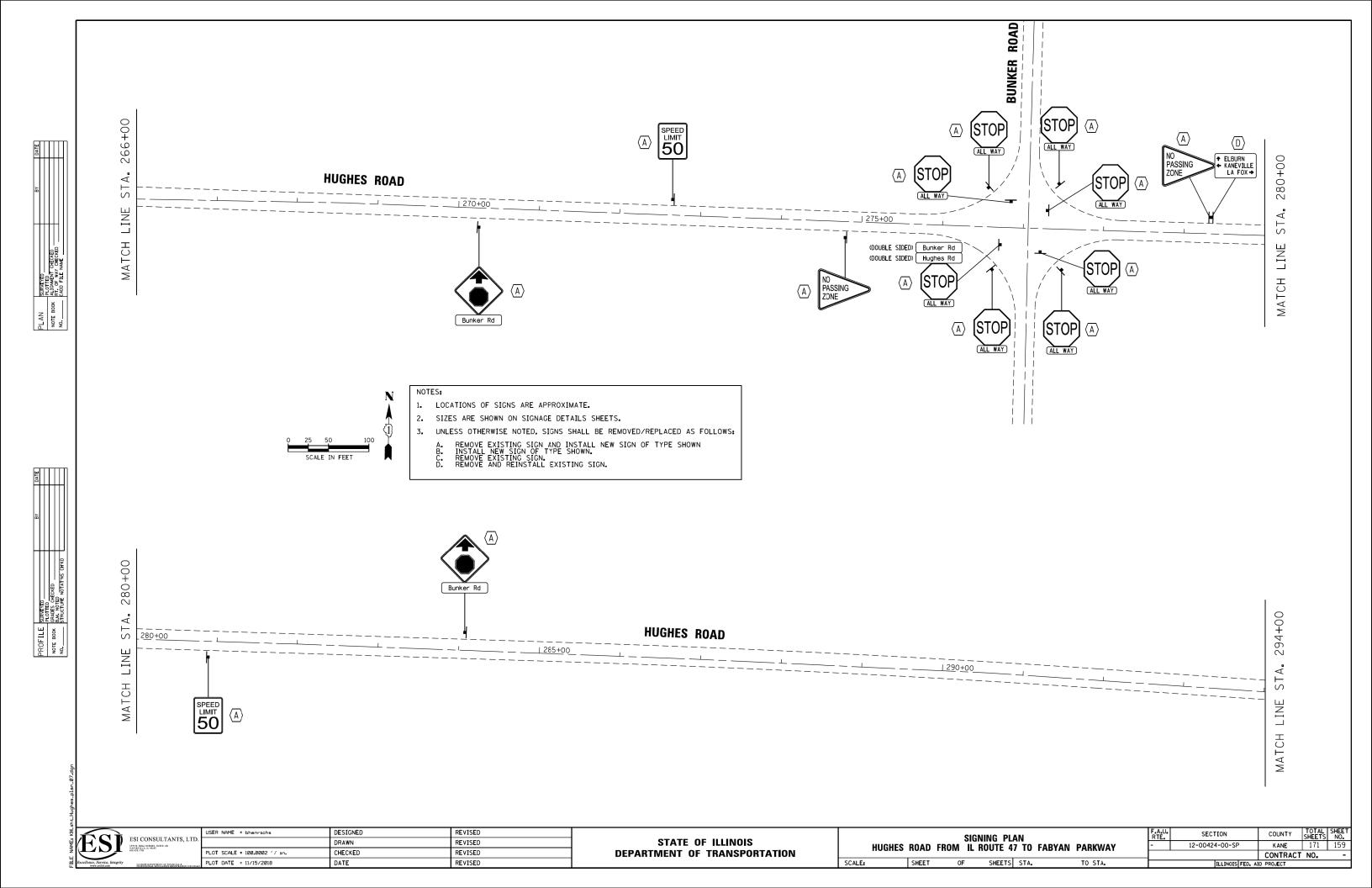








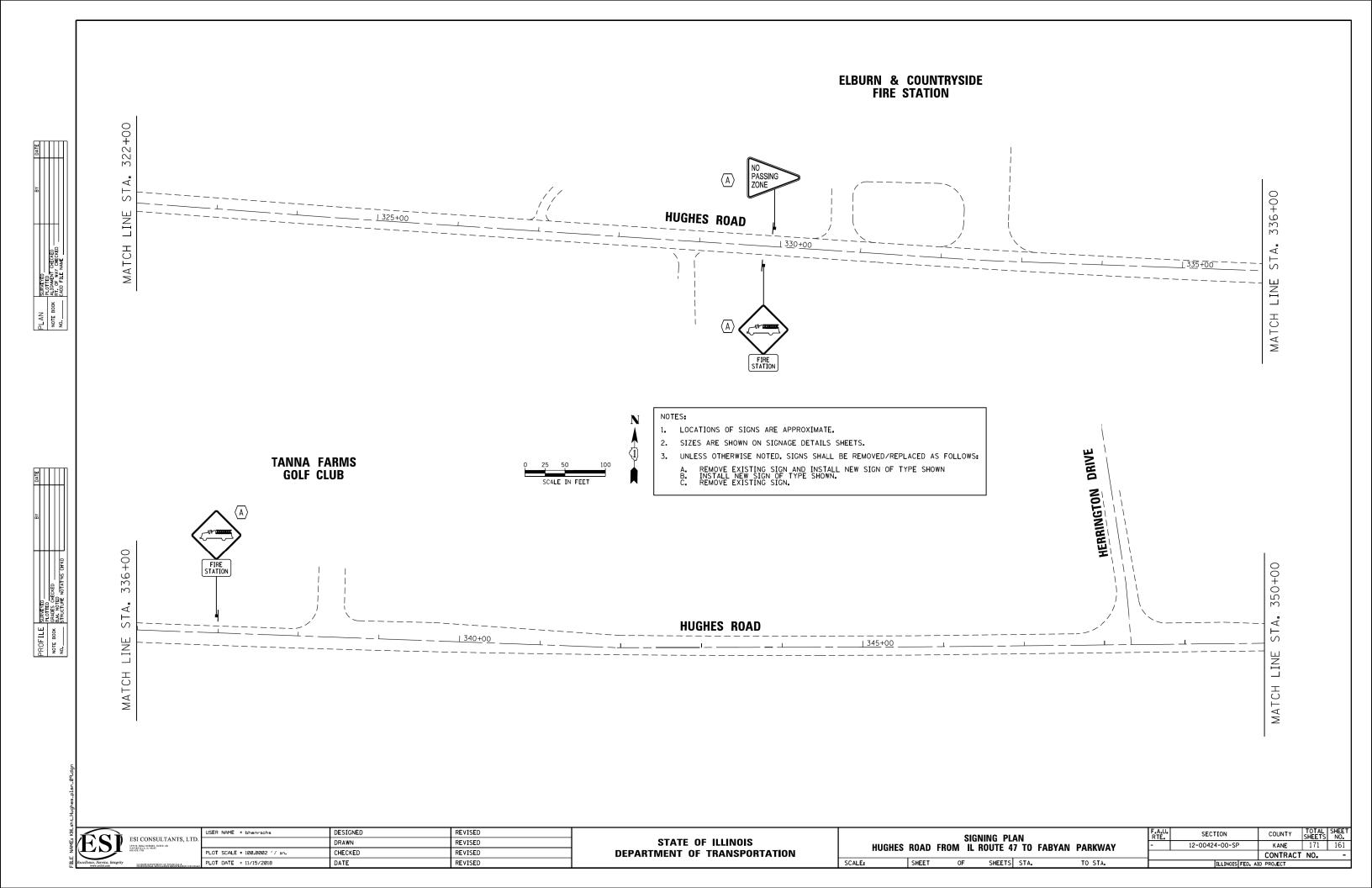


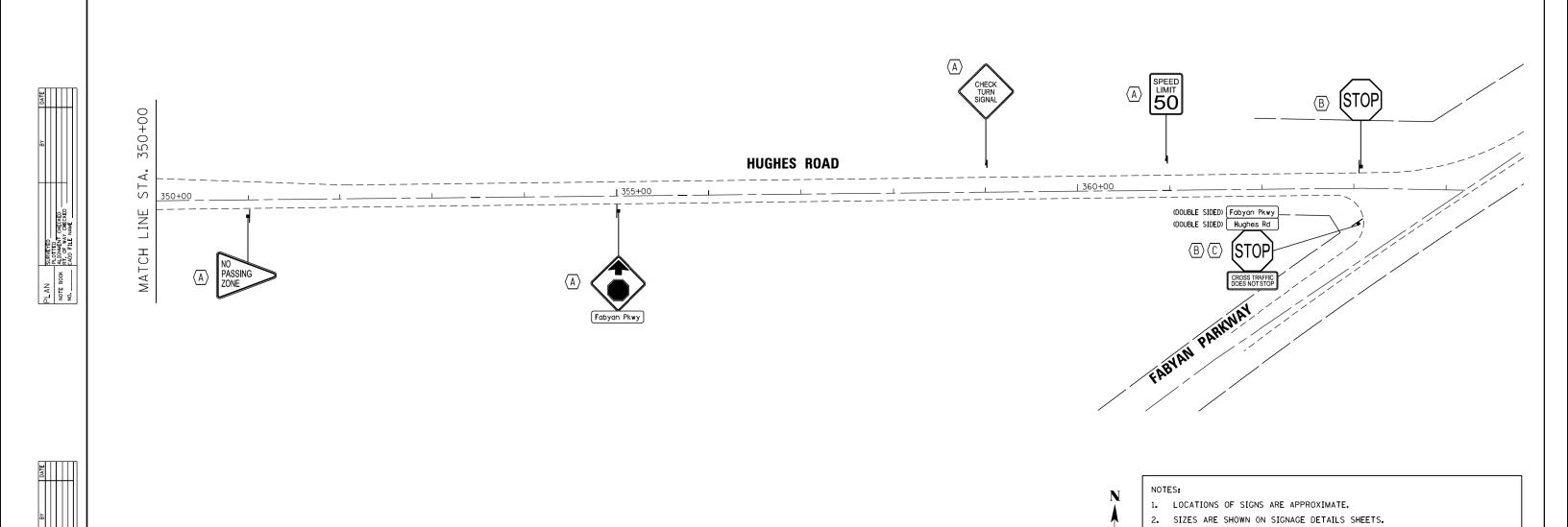


294+00 STA. 308+00 HUGHES ROAD MATCH MATCH LINE TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS ENERGY COSTS TO: 1. LOCATIONS OF SIGNS ARE APPROXIMATE. KANE COUNTY DIVISION OF TRANSPORTATION
41W011 BURLINGTON ROAD
ST. CHARLES, ILLINOIS 60175 UNLESS OTHERWISE NOTED, SIGNS SHALL BE REMOVED/REPLACED AS FOLLOWS: | ENERGY SUPPLY: | CONTACT: | NEW BUSINESS | PHONE: | 866-639-3532 | COMPANY: | COMMONWEALTH EDISON | ACCOUNT | NUMBER: | 3183143047 | **CABLE DIAGRAM** 308+00 6' POST ON CONCRETE FOUNDATION, TYPE A APPROX STA. 309+50 (SEE SHEET 170 FOR DETAILS) STA. LINE **HUGHES ROAD** MATCH -16' POSI ON CONCRETE FOUNDATION, TYPE A APPROX STA. 309+50 (SEE SHEET 170 FOR DETAILS) 11'-UC/ SPEED LIMIT 50 MATCH LINE COUNTY SHEETS NO.

KANE 171 160

CONTRACT NO. -DESIGNED REVISED USER NAME = bhenrichs SECTION SIGNING PLAN
HUGHES ROAD FROM IL ROUTE 47 TO FABYAN PARKWAY ESI CONSULTANTS, LT STATE OF ILLINOIS DRAWN REVISED 12-00424-00-SP PLOT SCALE = 100.0002 '/ in. CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** OF SHEETS STA.





ESI CONSULTANTS, LTI

"PA NULL TERME FIRST 19

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REVISED

REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION HUGHES ROAD FROM IL ROUTE 47 TO FABYAN PARKWAY

SHEET OF SHEETS STA. TO STA.

F.A.U. SECTION COUNTY SHEETS NO.

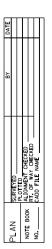
- 12-00424-00-SP KANE 171 162

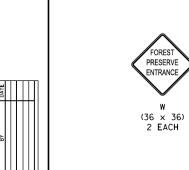
CONTRACT NO.

| ILLINOIS | FED. AID | PROJECT

UNLESS OTHERWISE NOTED, SIGNS SHALL BE REMOVED/REPLACED AS FOLLOWS:

A. REMOVE EXISTING SIGN AND INSTALL NEW SIGN OF TYPE SHOWN.
B. INSTALL NEW SIGN OF TYPE SHOWN.
C. REMOVE EXISTING SIGN.







 (36×36)

11 EACH

W1-8L (24 × 30) 16 EACH

NEXT 3 MILES

W7-3aP (24 × 18) 1 EACH

ALL WAY R1-3P (30 × 12) 4 EACH

W1-8R (24 × 30) 13 EACH

W11-3 (DEER)

(36 × 36) 1 EACH

Blackberry Creek Dr •

Spring Valley ← Drive

W16-8aP (36 × 30) 1 EACH

SPEED LIMIT

R2-1 (30×36) 10 EACH

W2-1

 (36×36)

2 EACH

W11-8

 (36×36)

2 EACH

Blackberry ← Creek Dr

Spring Valley Drive →

W16-8aP (36 × 30) 1 EACH





W1-2L (36×36) 4 EACH

W2-2R

 (36×36)

4 EACH



W1-2R (36×36) 4 EACH



NOTES:

1. ALL SIGN PANEL SIZES ARE IN INCHES.

W1-7 (60 × 30) 2 EACH

(36 x 18)

1 EACH

(36 × 36) 1 EACH

SUMMARY OF QUANTITIES

2. RADAR SPEED SIGNS SHALL BE INSTALLED PER THE DETAIL ON SHEET XX.

3. ALL OTHER SIGNS SHALL BE INSTALLED PER IDOT STANDARDS.

JOININALL OF GOARTHI		
ITEM	UNIT	QTY
SIGN PANEL - TYPE 1	SQ FT	746.5
SIGN PANEL - TYPE 2	SQ FT	25
REMOVE SIGN PANEL ASSEMBLY- TYPE A	EACH	46
REMOVE SIGN PANEL ASSEMBLY- TYPE B	EACH	21
REMOVE SIGN PANEL - TYPE 1	SQ FT	27
RELOCATE SIGN PANEL, TYPE 1	SQ FT	9
METAL POST - TYPE A	FOOT	294
METAL POST - TYPE B	FOOT	962
SERVICE INSTALLATION - POLE MOUNTED	EACH	3
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	178
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 1C	FOOT	729
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	16
RADAR SPEED SIGN	EACH	4



R3-5R (30 × 36) 3 EACH

W2-2L (36 × 36) 4 EACH

45 MPH

W13-1P

(30 × 30) 4 EACH

Xxxxxx Xx





W3-1 (36×36) 4 EACH





W14-3 (48 × 48 × 36) 5 EACH



(36 × 24) 2 EACH



W16-8P $(VARIES \times 8)$ Route 47 - 1

Oakwood Dr - 2 Anderson Rd - 2 Pouley Rd - 2 Green Rd - 2

Fabyan Pkwy - 1

Xxxxxx Xx

Bunker Rd - 2

D3-1 (VARIES × 12) Bunker Rd - 2 Fabyan Pkwy - 2 Hughes Rd - 4

ESI CONSULTANTS, LTI

USER NAME = bhenrichs PLOT SCALE = 200.0004 '/ in. PLOT DATE = 11/15/2018

DESIGNED DRAWN CHECKED DATE

REVISED

REVISED

REVISED

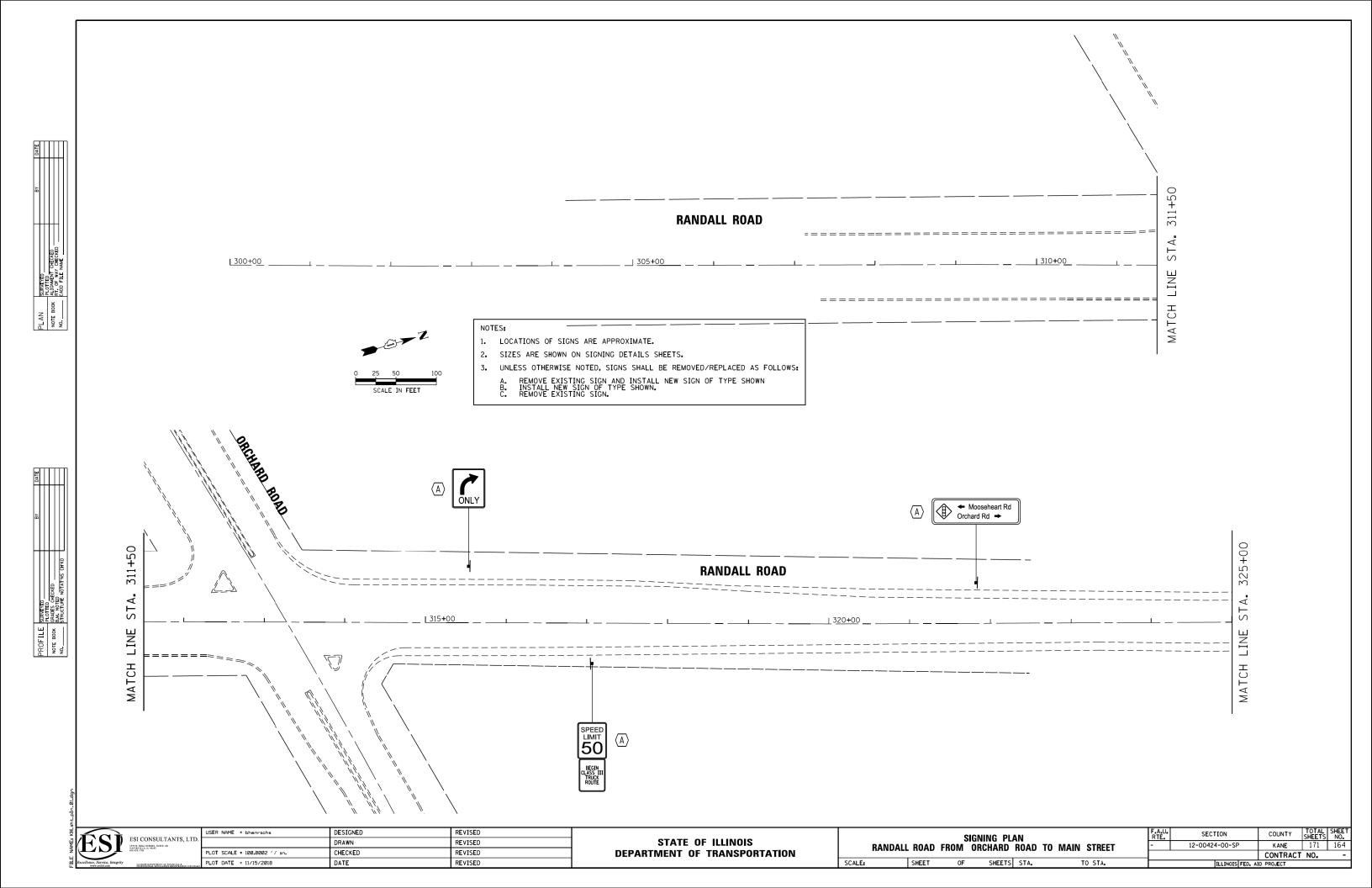
REVISED

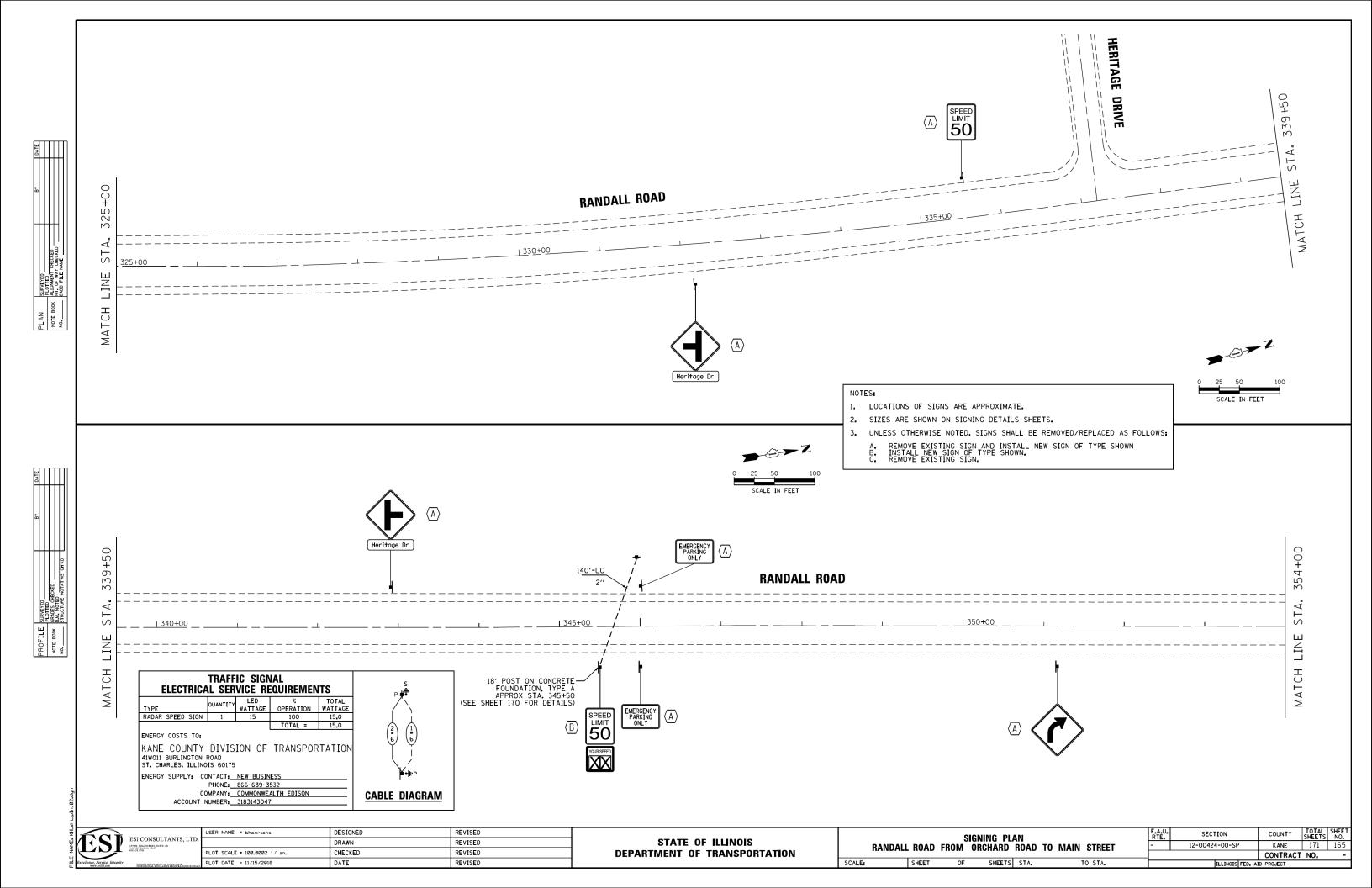
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

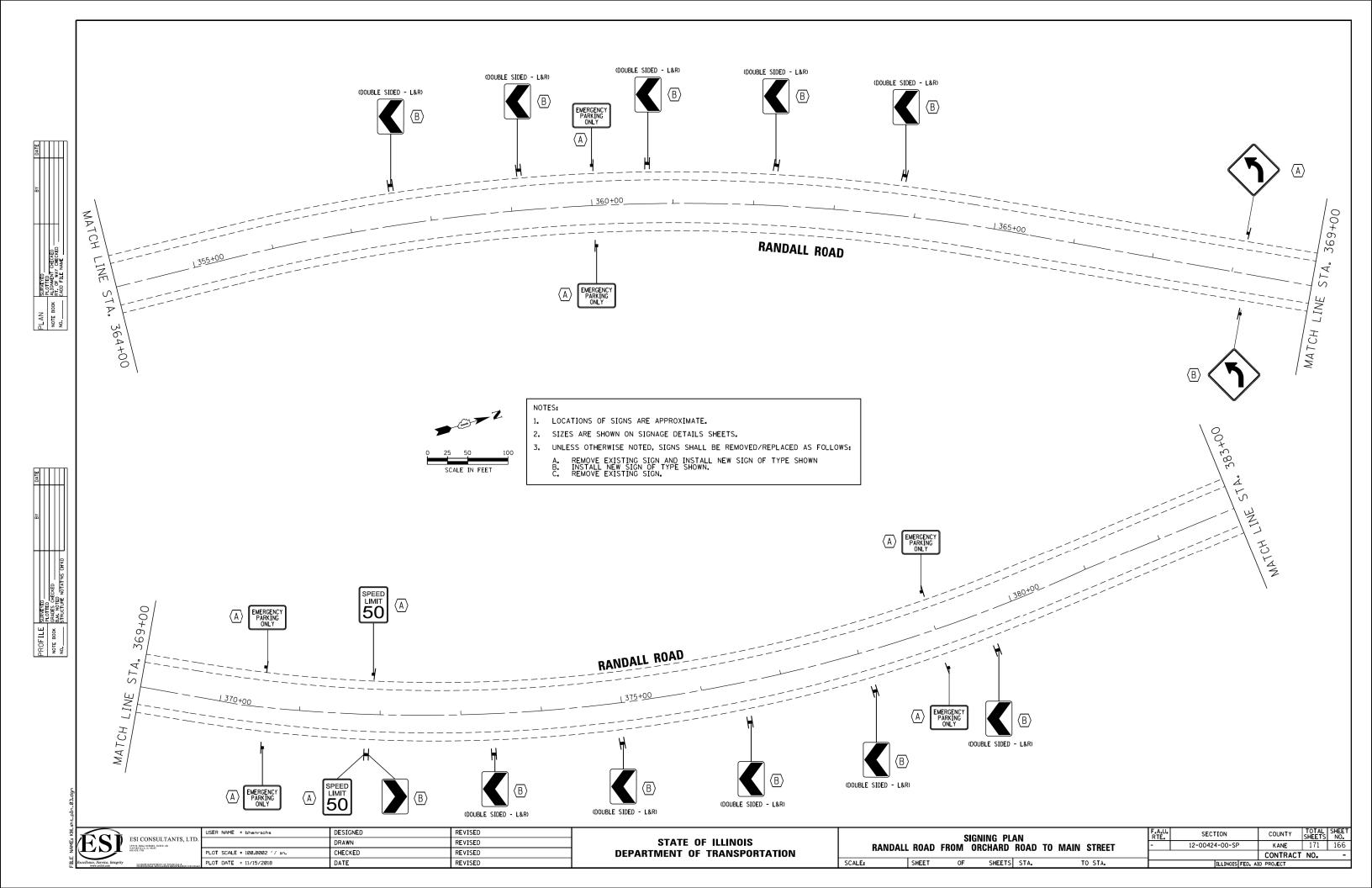
SCALE:

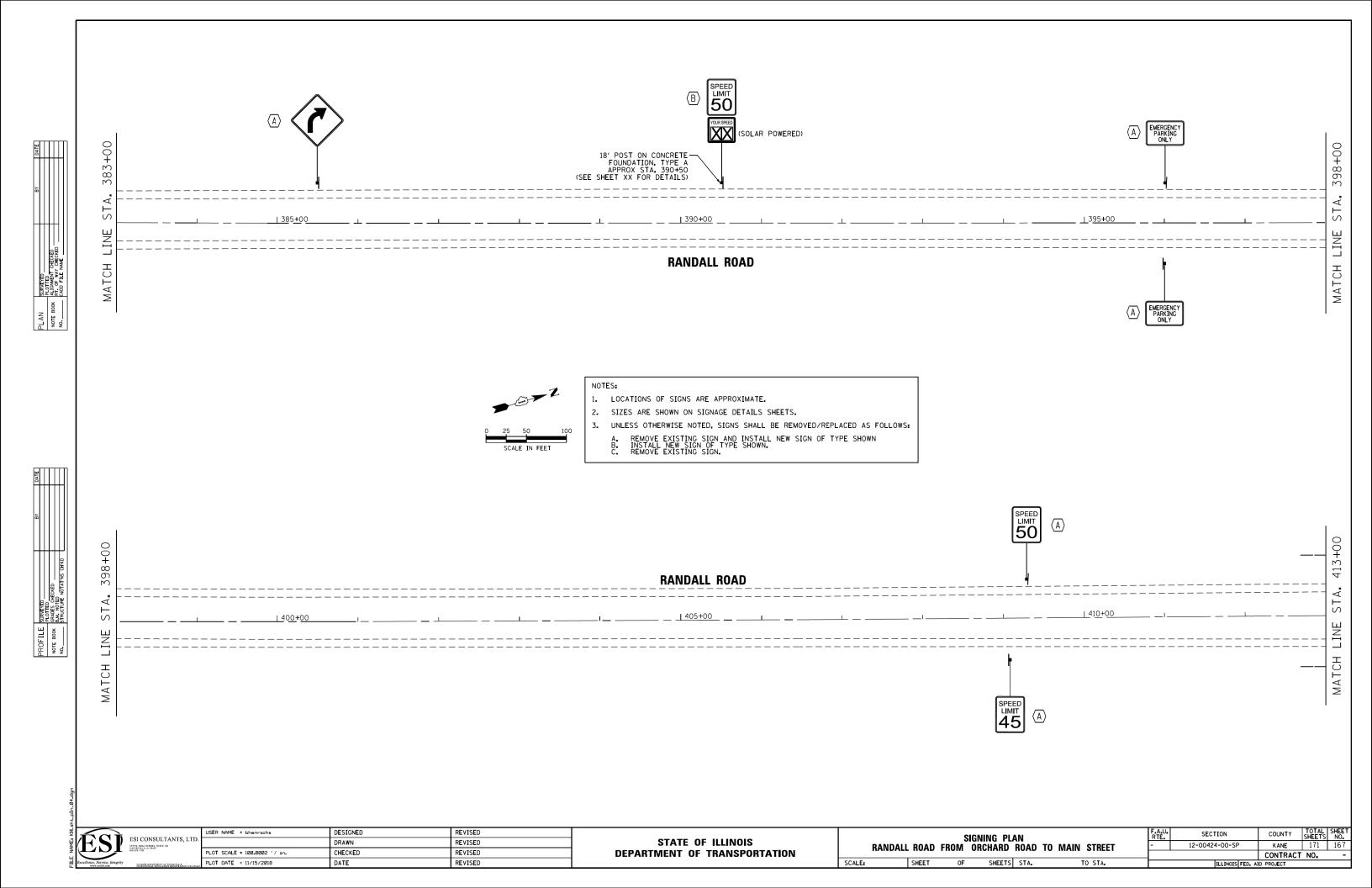
SIGNING PLAN HUGHES ROAD FROM IL ROUTE 47 TO FABYAN PARKWAY SHEET SHEETS STA. TO STA.

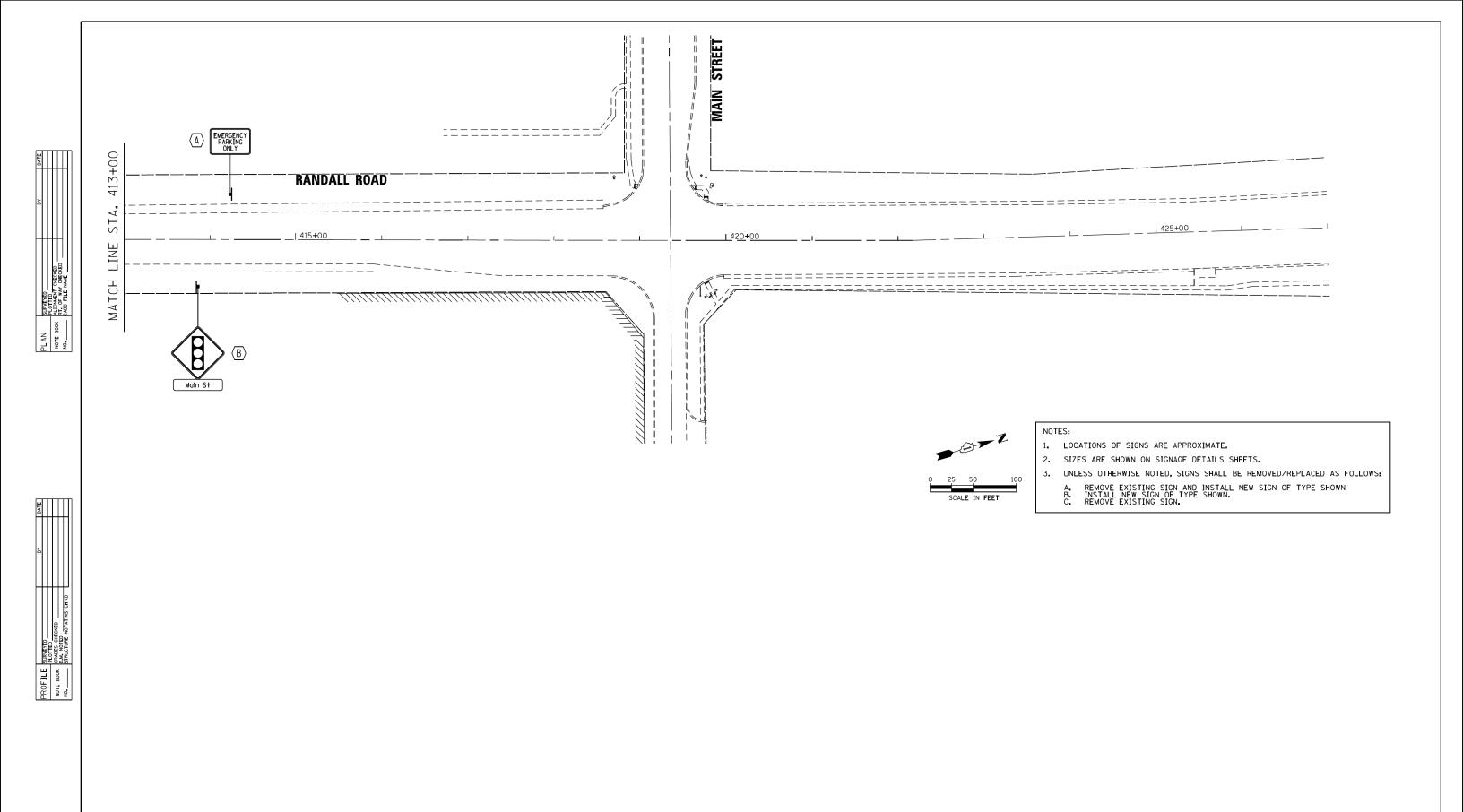
COUNTY TOTAL SHEET NO. KANE 171 163 SECTION 12-00424-00-SP CONTRACT NO. ILLINOIS FED. AID PROJECT











ESI ESI COLLEGATO CONTROL CONT

ESI CONSULTANTS, LTD.

1979 AULL STREET, SUTTE 100
ANAPAYULLA 1.69549

 USER NAME
 = bhenrichs
 DESIGNED
 REVISED

 DRAWN
 REVISED

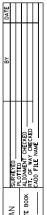
 PLOT SCALE = 100.0002 ' / In.
 CHECKED
 REVISED

 PLOT DATE = 11/15/2018
 DATE
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RANDALL ROAD FROM ORCHARD ROAD TO MAIN STREET

SHEET OF SHEETS STA. TO STA.









R2-1 (36 × 48) 7 EACH

W1-8L (36 × 48) 10 EACH

◆ Mooseheart Rd Orchard Rd →

D3-2 (78 × 30) 1 EACH

ESI CONSULTANTS, LTD

1979 N. MILL STRIET, SUITE 100

NAPERVILLE, IL 69545

630-433-130-



R2-1 (36 × 48) 1 EACH





ONLY R8-4 (48 × 36) 11 EACH





W1-2L (48 × 48) 2 EACH



W1-2R (48 × 48) 2 EACH



(36 × 48) 11 EACH



W2-2L (48 × 48) 1 EACH





(48 × 48) 1 EACH

W3-3 (48 × 48) 1 EACH

Xxxxxx Xx W16-8P (VARIES × 8) Heritage Dr - 2 Main St - 1

NOTES:

- 1. ALL SIGN PANEL SIZES ARE IN INCHES.
- 2. RADAR SPEED SIGNS SHALL BE INSTALLED PER THE DETAIL ON SHEET XX.
- 3. ALL OTHER SIGNS SHALL BE INSTALLED PER IDOT STANDARDS.

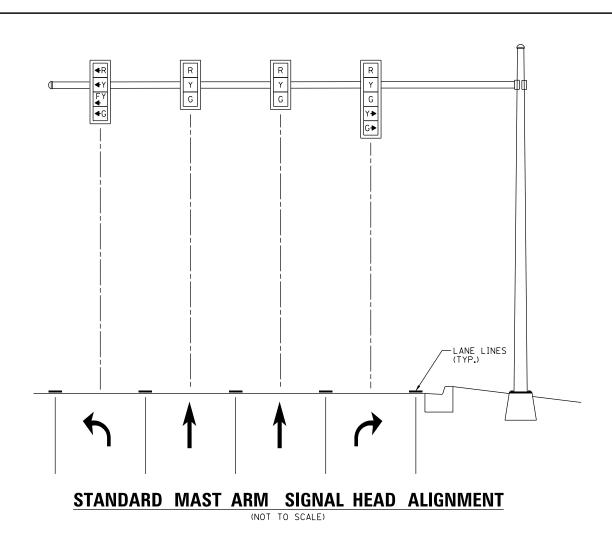
SUMMARY OF QUANTITIES

	_	
ITEM	UNIT	QTY
SIGN PANEL - TYPE 1	SQ FT	18
SIGN PANEL - TYPE 2	SQ FT	608.5
REMOVE SIGN PANEL ASSEMBLY- TYPE A	EACH	21
REMOVE SIGN PANEL ASSEMBLY- TYPE B	EACH	3
METAL POST - TYPE A	FOOT	691
METAL POST - TYPE B	FOOT	291
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	140
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 61C	FOOT	459
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	8
RADAR SPEED SIGN	EACH	2

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCALE:

SIGNIN	IG PLAN		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0.0	IARD ROAD	TO MAIN STREET	-	12-00424-00-SP	KANE	171	169
					CONTRACT	NO.	-
SHEET OF	SHEETS STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		





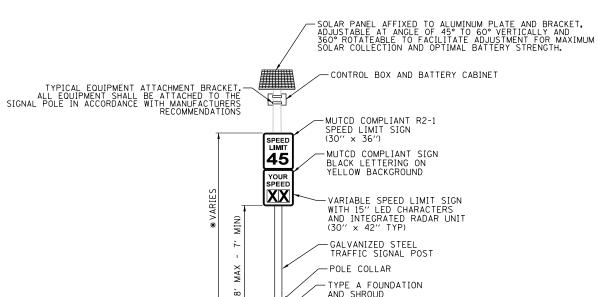
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME

9

PROF NOTE E

NOTES:

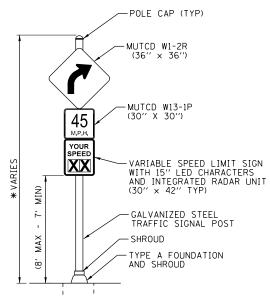
- BACKGROUND: WHITE MESSAGE: BLACK
- 2. LINE 1 IS SERIES C LINE 2, 4 AND 5 ARE SERIES D LINE 3 IS SERIES B
- 3. ALL DIMENSIONS SHOWN ARE IN INCHES



* SEE PLANS FOR SPECIFIC POLE LENGTH

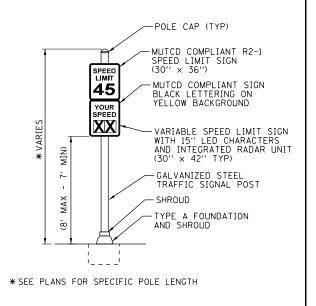
STANDARD CMS SPEED LIMIT SIGN **ASSEMBLY DETAIL** (SOLAR POWERED)

(NOT TO SCALE)



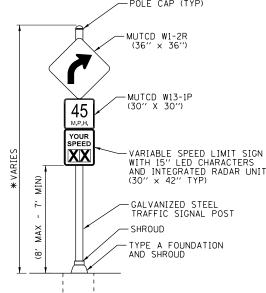
* SEE PLANS FOR SPECIFIC POLE LENGTH

STANDARD CMS CURVE AHEAD WARNING SIGN ASSEMBLY DETAIL



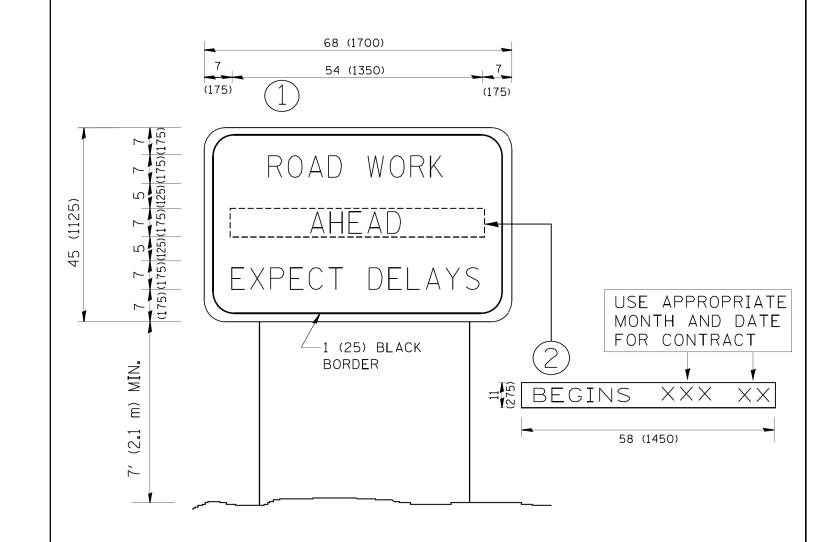
STANDARD CMS SPEED LIMIT SIGN **ASSEMBLY DETAIL**

(NOT TO SCALE)



(NOT TO SCALE)

FILE NAME	USER NAME = fbariso	DESIGNED - TFS	REVISED -						F.A.P.	SECTION	COUNTY	TOTAL	SHEET
Detail_ sheet-01		DRAWN - FPB	REVISED -	STATE OF ILLINOIS		DETAII	.S		VAR.	12-00424-00-SP	KANE	171	170
	PLOT SCALE = 2'	CHECKED - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION							CONTRACT		1E74
	PLOT DATE = 11/16/2018	DATE - 11/16/2018	REVISED -		SCALE:	SHEET NO. OF SHEET	S STA.	TO STA.	FED. RO	AD DIST. NO. ILLINOIS FED. A		HSIP-W3	



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 () 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.

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97			ARTERIAL ROAD		F.A. P.	SECTION	COUNTY	TOTAL SHEET
W:\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS				VAR.	12-00424-00-SP	KANE	171 171
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION		INFORMATION SIGN			TC-22	CONTRACT	T NO. 61E74
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROA	D DIST. NO. 1 ILLINOIS FED. A		