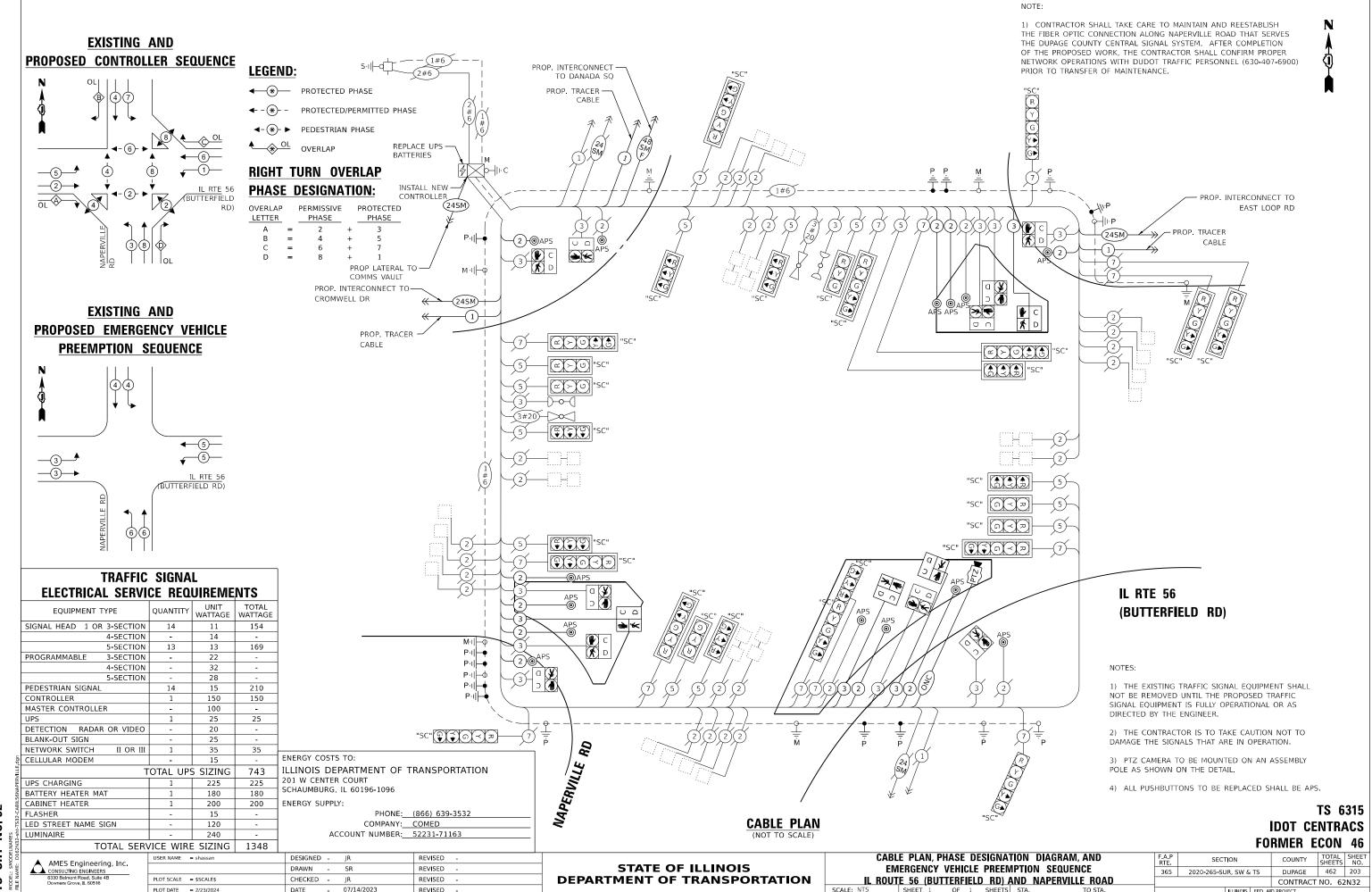


PLOT DATE = 2/23/2024

- 07/14/2023 REVISED -

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA.



NOW THE SERVICE SWOOT THE NAME OF THE NAME

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

| IL ROUT | | HEDULE (Terfield | | | S APERVILLE ROAD |
|------------|---------|----------------------|--------|------|---------------------|
| SCALE: NTS | SHEET 1 | OF 1 | SHEETS | STA. | TO STA. |

LED SIGNAL MODULE REPLACEMENT

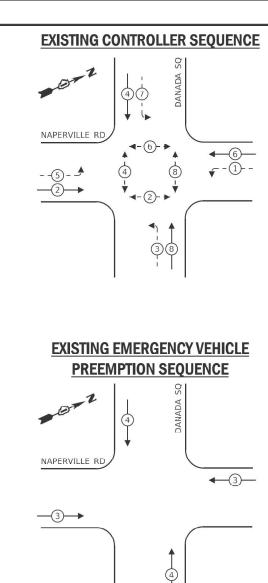
| FORMER | ECON | 46 |
| F.A.P | SECTION | COUNTY | TOTAL SHEETS | NO. |
| 365 | 2020-265-SUR, SW & TS | DUPAGE | 462 | 204 |
| CONTRACT NO. 62N32 |

IDOT CENTRACS

TS 6315

EACH

| SCHEDULE OF QUANTITIES | | |
|---|-------|---------------|
| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 204 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 2535 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 1220 |
| ELECTRIC CABLE IN CONDUIT. EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 2224 |
| DRILL EXISTING HANDHOLE | EACH | 10 |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED | | |
| WITH COUNTDOWN TIMER | EACH | 4 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| OUTDOOR RATED NETWORK CABLE | FOOT | 372 |
| REMOTE CONTROLLED VIDEO SYSTEM | EACH | 1 |
| PEDESTRIAN SIGNAL POST, 10 FT. | EACH | 4 |
| PEDESTRIAN SIGNAL POST, 5 FT. | EACH | 6 |
| LAYER III (NETWORK) SWITCH | EACH | 1 |
| FULL-ACTUATED CONTROLLER IN EXISTING CABINET | EACH | 1 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 14 |
| CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER | FOOT | 40 |
| LED SIGNAL FACE, LENS COVER | EACH | 27 |
| LED PEDESTRIAN SIGNAL MODULE REPLACEMENT | EACH | 10 |
| CAMERA MOUNTING ASSEMBLY | EACH | 1 |
| REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 |
| POWER OVER ETHERNET EXTENDER | EACH | 1 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER, 24 PORT | EACH | 1 |
| | | |



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

| | NO. OF | LED | % | TOTAL |
|------------------|--------|---------|-----------|---------|
| TYPE | LAMPS | WATTAGE | OPERATION | WATTAGE |
| SIGNAL (RED) | 16 | 11 | 50 | 88.0 |
| (YELLOW) | 16 | 20 | 5 | 16.0 |
| (GREEN) | 16 | 12 | 45 | 86.4 |
| PERMISSIVE ARROW | 16 | 10 | 10 | 16.0 |
| PED. SIGNAL | 8 | 20 | 100 | 160.0 |
| 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 | -0 |
| LUMINAIRE | 1 | 250 | 50 | 125.0 |
| PTZ CAMERA | 1 | 75 | 100 | 75.0 |
| | | | | |
| | | | TOTAL = | 841.4 |

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

PHONE: (630)-424-5704

COMPANY: COM-ED LOMBARD

ACCOUNT NUMBER:

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B

 USER NAME
 = shassan
 DESIGNED
 JR
 REVISED

 DRAWN
 SR
 REVISED

 PLOT SCALE
 = \$SCALE\$
 CHECKED
 JR
 REVISED

 PLOT DATE
 = 2/23/2024
 DATE
 07/14/2023
 REVISED

LEGEND:

PROTECTED PHASE
PROTECTED/PERMITTED PHASE
--*--

◄-*- ► PEDESTRIAN PHASE

OL OVERLAP

PROP. INTERCONNECT TO NAPERVILLE RD

PROP. TRACER CABLE

NOTES:

1) CONTRACTOR SHALL TAKE CARE TO MAINTAIN AND REESTABLISH THE FIBER OPTIC CONNECTION ALONG NAPERVILLE ROAD THAT SERVES THE DUPAGE COUNTY CENTRAL SIGNAL SYSTEM. AFTER COMPLETION OF THE PROPOSED WORK, THE CONTRACTOR SHALL CONFIRM PROPER NETWORK OPERATIONS WITH DUDOT TRAFFIC PERSONNEL (630-407-6900) PRIOR TO TRANSFER OF MAINTENANCE.

2) EXISTING LAYER III (NETWORK) SWITCH IS TO REMAIN INSTALLED AND IN USE FOR THE DUPAGE COUNTY CENTRAL SIGNAL SYSTEM.

CONSTRUCTION NOTE:

EX. INTERSECTION AND

SAMPLING (SYSTEM)

DETECTORS

NAPERVILLE RD

NAPERVILLE RD

M ·II

 $\langle \overline{1} \rangle$ install layer II (datalink) switch in existing cabinet.

 $\stackrel{\textstyle \frown}{}$ remove existing fiber optic (2) and tracer cables from il rte 56 (butterfield RD) to east-west loop road.

(3) INSTALL NEW 48 SINGLE MODE FIBER OPTIC CABLE AND TRACER CABLE FROM IL RTE 56 (BUTTERFIELD RD) TO EAST-WEST LOOP ROAD.

(NOT TO SCALE)

DANADA

(1#6)

SCHEDULE OF QUANTITIES

| O SCALE) | | |
|---|-------|---------------|
| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| REMOVE ELECTRIC CABLE FROM CONDUIT | FOOT | 2358 |
| ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C | FOOT | 786 |
| LAYER II (DATALINK) SWITCH | EACH | 1 |
| UPGRADE EXISTING CONTROLLER TO NTCIP (SPECIAL) | EACH | 1 |
| FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE | FOOT | 786 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| | | |

TS 8045 DUDOT IDOT CENTRACS

EX. INTERSECTION

AND SAMPLING

(SYSTEM) DETECTORS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES

NAPERVILLE RD AND DANADA SQ

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

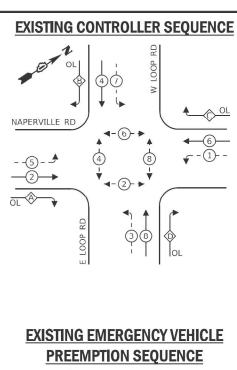
PROP. INTERCONNECT

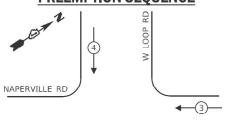
TO WEST LOOP DR

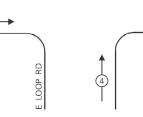
(2)

PROP. TRACER CABLE

S SHT NO. 34







TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

| | NO. OF | LED | % | TOTAL |
|------------------|--------|---------|-----------|---------|
| TYPE | LAMPS | WATTAGE | OPERATION | WATTAGE |
| SIGNAL (RED) | 20 | 11 | 50 | 110.0 |
| (YELLOW) | 20 | 20 | 5 | 20.0 |
| (GREEN) | 20 | 12 | 45 | 108.0 |
| PERMISSIVE ARROW | 36 | 10 | 10 | 36.0 |
| PED. SIGNAL | 8 | 20 | 100 | 160.0 |
| 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 | 2 | 250 | 50 | 250.0 |
| PTZ CAMERA | - | 75 | 100 | - |
| | | | | |
| | | | TOTAL = | 809.0 |
| | | | | |

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD. WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO

PHONE: (630)-424-5704 COMPANY: COM-ED LOMBARD ACCOUNT NUMBER:

LEGEND:

★PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

◆- *- PEDESTRIAN PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION:

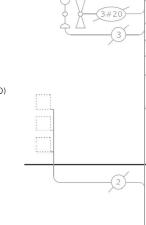
| OVERLAP | | PERMISSIVE | | PROTECTED |
|----------------|---|------------|---|-----------|
| LETTER | | PHASE | | PHASE |
| Α | = | 2 | + | 3 |
| В | = | 4 | + | 5 |
| C | = | 6 | + | 7 |
| D | = | 8 | + | 1 |
| | | | | |

PROP. INTERCONNECT

TRACER CABLE TO DANADA DR **NAPERVILLE RD**

1) CONTRACTOR SHALL TAKE CARE TO MAINTAIN AND REESTABLISH THE FIBER OPTIC CONNECTION ALONG NAPERVILLE ROAD THAT SERVES THE DUPAGE COUNTY CENTRAL SIGNAL SYSTEM. AFTER COMPLETION OF THE PROPOSED WORK, THE CONTRACTOR SHALL CONFIRM PROPER NETWORK OPERATIONS WITH DUDOT TRAFFIC PERSONNEL (630-407-6900) PRIOR TO TRANSFER OF MAINTENANCE.

2) EXISTING LAYER II (DATALINK) SWITCH IS TO REMAIN INSTALLED AND IN USE FOR THE DUPAGE COUNTY CENTRAL SIGNAL SYSTEM.





CONSTRUCTION NOTE:

- (1) INSTALL LAYER II (DATALINK) SWITCH IN EXISTING CABINET.
- $\langle 2 \rangle$ REMOVE EXISTING FIBER OPTIC (2) AND TRACER CABLES FROM IL RTE 56 (BUTTERFIELD RD) TO EAST-WEST LOOP ROAD.
- ③ INSTALL NEW 48 SINGLE MODE FIBER OPTIC CABLE AND TRACER CABLE FROM IL RTE 56 (BUTTERFIELD RD) TO EAST-WEST LOOP ROAD.

SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|---|-------|---------------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| REMOVE ELECTRIC CABLE FROM CONDUIT | FOOT | 2940 |
| ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C | FOOT | 980 |
| LAYER II (DATALINK) SWITCH | EACH | 1 |
| UPGRADE EXISTING CONTROLLER TO NTCIP (SPECIAL) | EACH | 1 |
| FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE | FOOT | 980 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |

CABLE PLAN

TS 8076 **DUDOT**

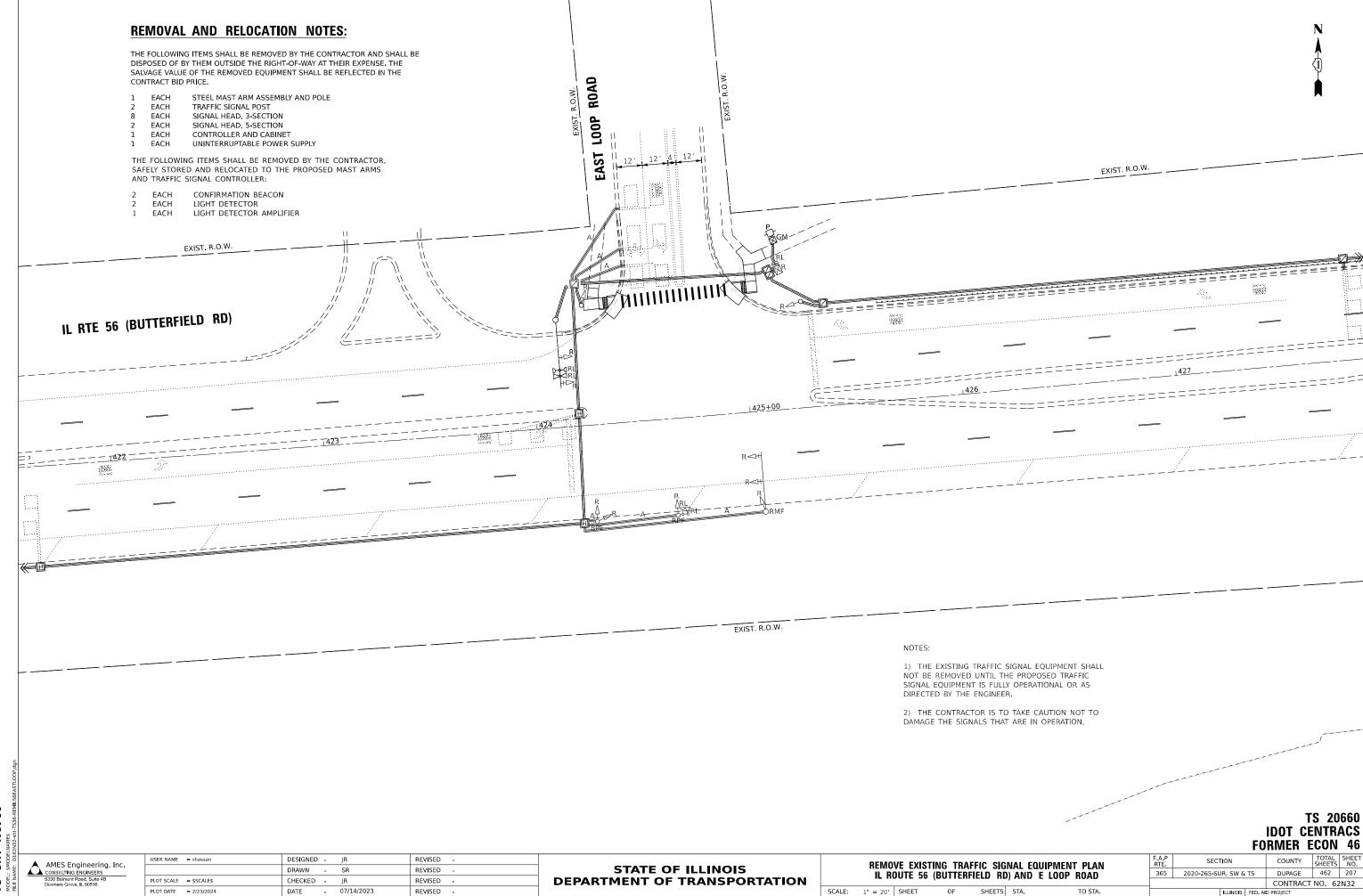
-EX. INTERCONNECT CABLE (TO REMAIN)

1 TRACER CABLE

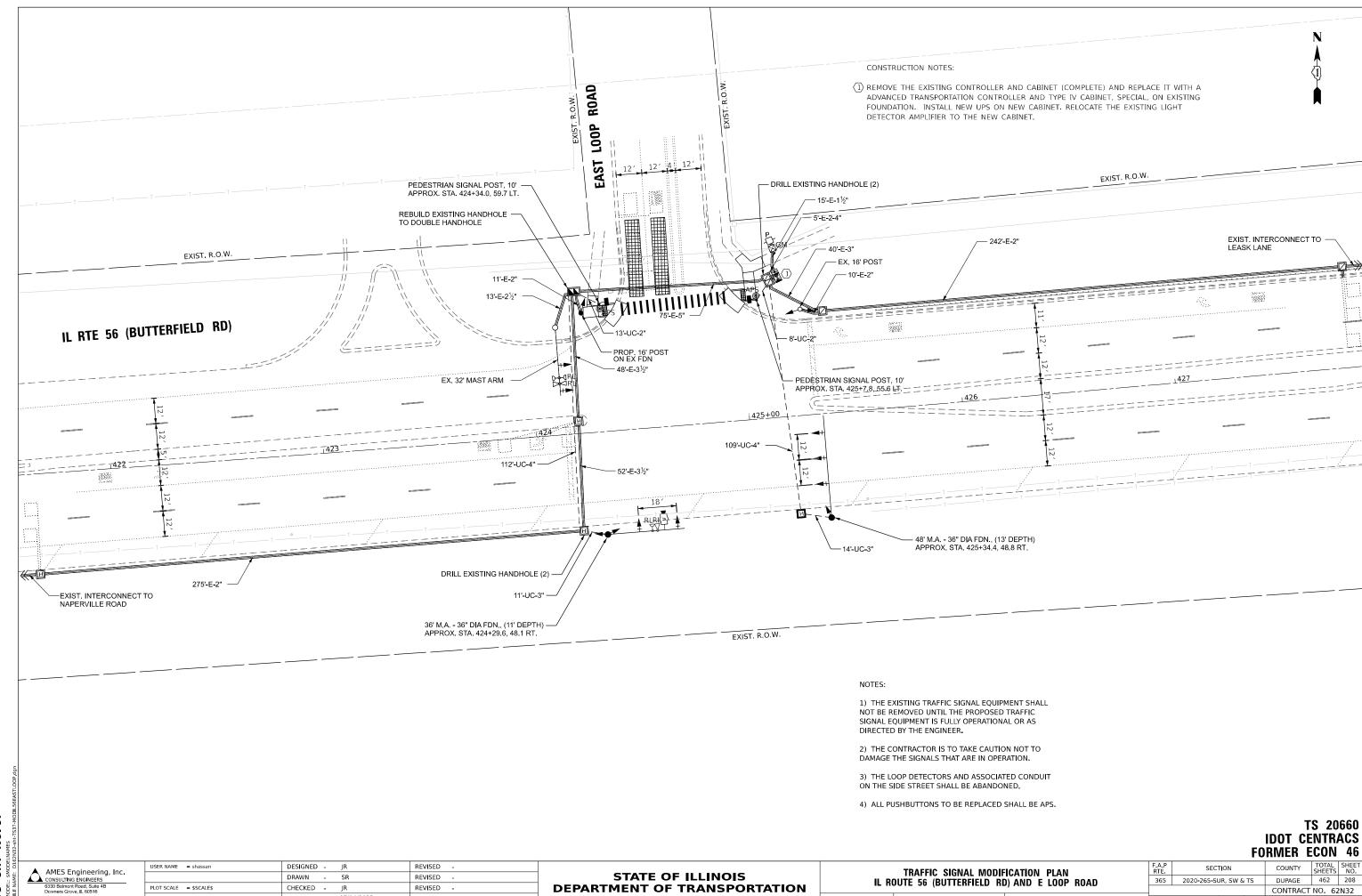
IDOT CENTRACS COUNTY

AMES Engineering, Inc.

| USER NAME = shassan | DESIGNED - | JR | REVISED - |
|------------------------|------------|------------|-----------|
| | DRAWN - | SR | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | JR | REVISED - |
| PLOT DATE = 2/23/2024 | DATE - | 07/14/2023 | REVISED - |



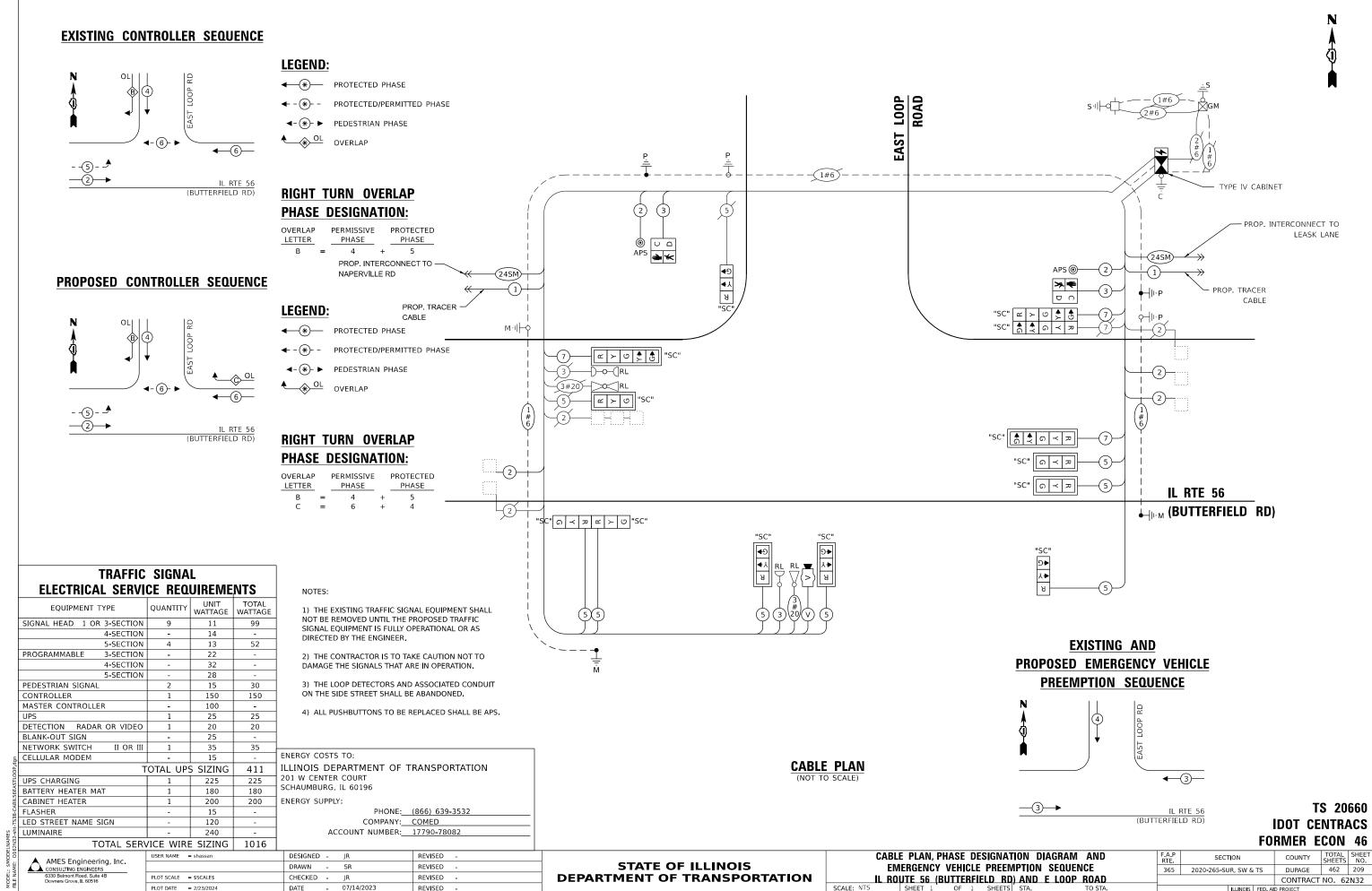
IS SHT NO.36



NO. 37 SHT

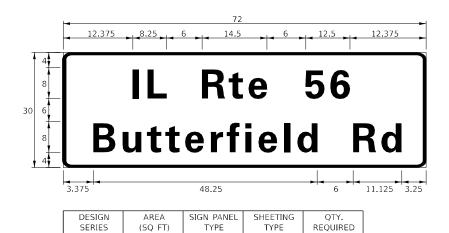
- 07/14/2023 PLOT DATE = 2/23/2024 REVISED

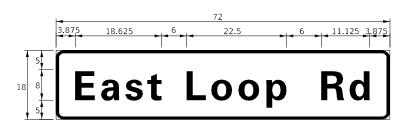
SHEETS STA.



SIGN PANEL – TYPE 1 OR TYPE 2

15.0





| DESIGN | AREA | SIGN PANEL | SHEETING | QTY. |
|--------|---------|------------|----------|----------|
| SERIES | (SQ FT) | TYPE | TYPE | REQUIRED |
| D | 9.0 | 1 | ZZ | 2 |

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

SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|--|-------|---------------|
| SIGN PANEL - TYPE 1 | SQ FT | 18 |
| SIGN PANEL - TYPE 2 | SQ FT | 15 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 21 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 25 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 221 |
| HEAVY-DUTY HANDHOLE | EACH | 1 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 166 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 462 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 1607 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 472 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 937 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 457 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE, 36 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE, 48 FT. | EACH | 1 |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 24 |
| DRILL EXISTING HANDHOLE | EACH | 4 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 5 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 4 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 2 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 2 |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 2 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 7 |
| INDUCTIVE LOOP DETECTOR | EACH | 6 |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT | EACH | 2 |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT | EACH | 1 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | FOOT | 1 |
| REMOVE EXISTING CONCRETE FOUNDATION | EACH | 3 |
| EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C | EACH | 279 |
| LAYER II (DATALINK) SWITCH | EACH | 1 |
| PEDESTRIAN SIGNAL POST, 10 FT. | EACH | 2 |
| VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH | EACH | 1 |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL | EACH | 1 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 2 |
| CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER | FOOT | 8 |
| LED SIGNAL FACE, LENS COVER | EACH | 13 |
| REBUILD EXISTING HANDHOLE TO DOUBLE HANDHOLE | EACH | 1 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER, 24 PORT | EACH | 1 |

TS 20660 **IDOT CENTRACS FORMER ECON 46**

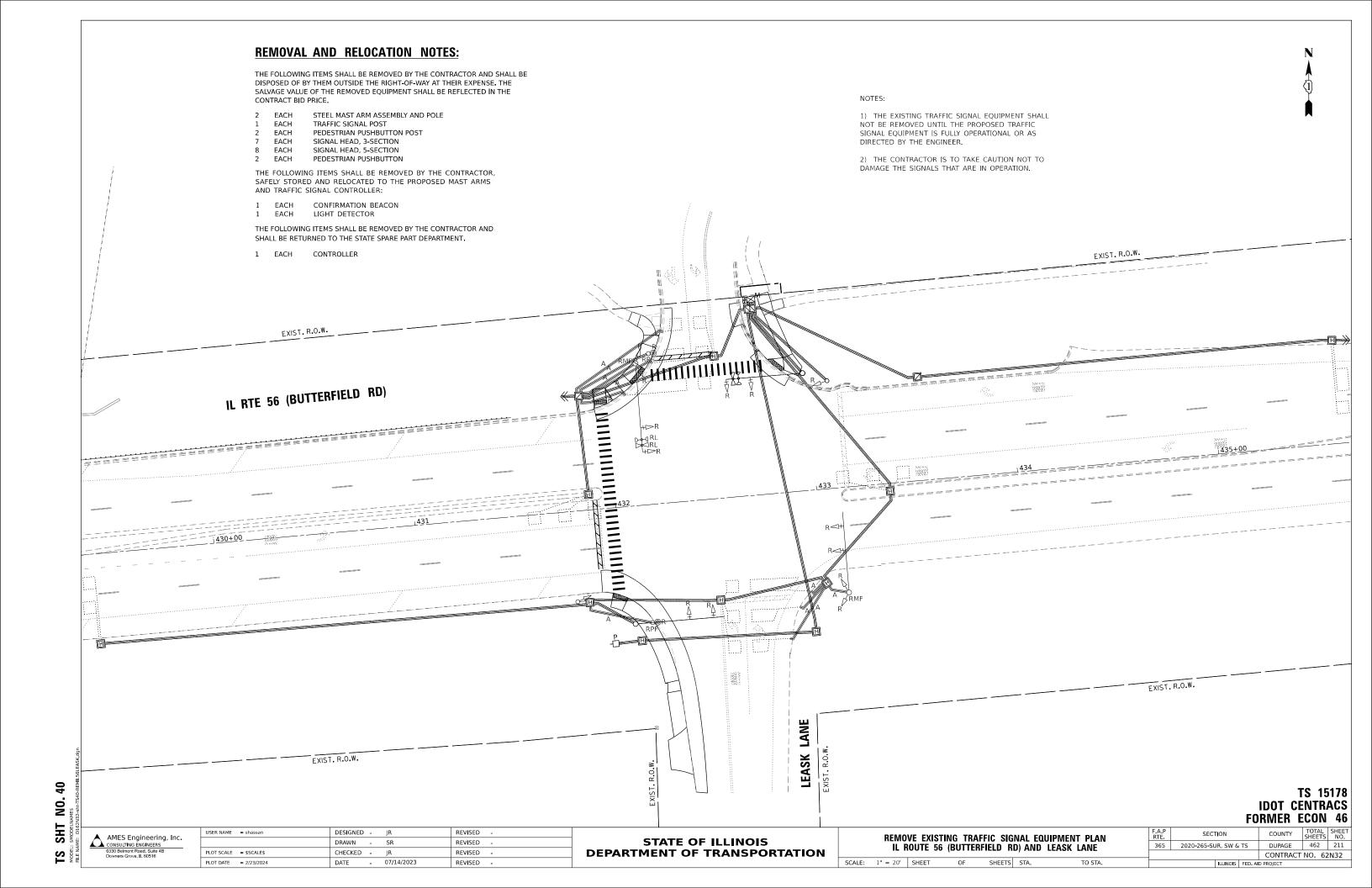
CONTRACT NO. 62N32

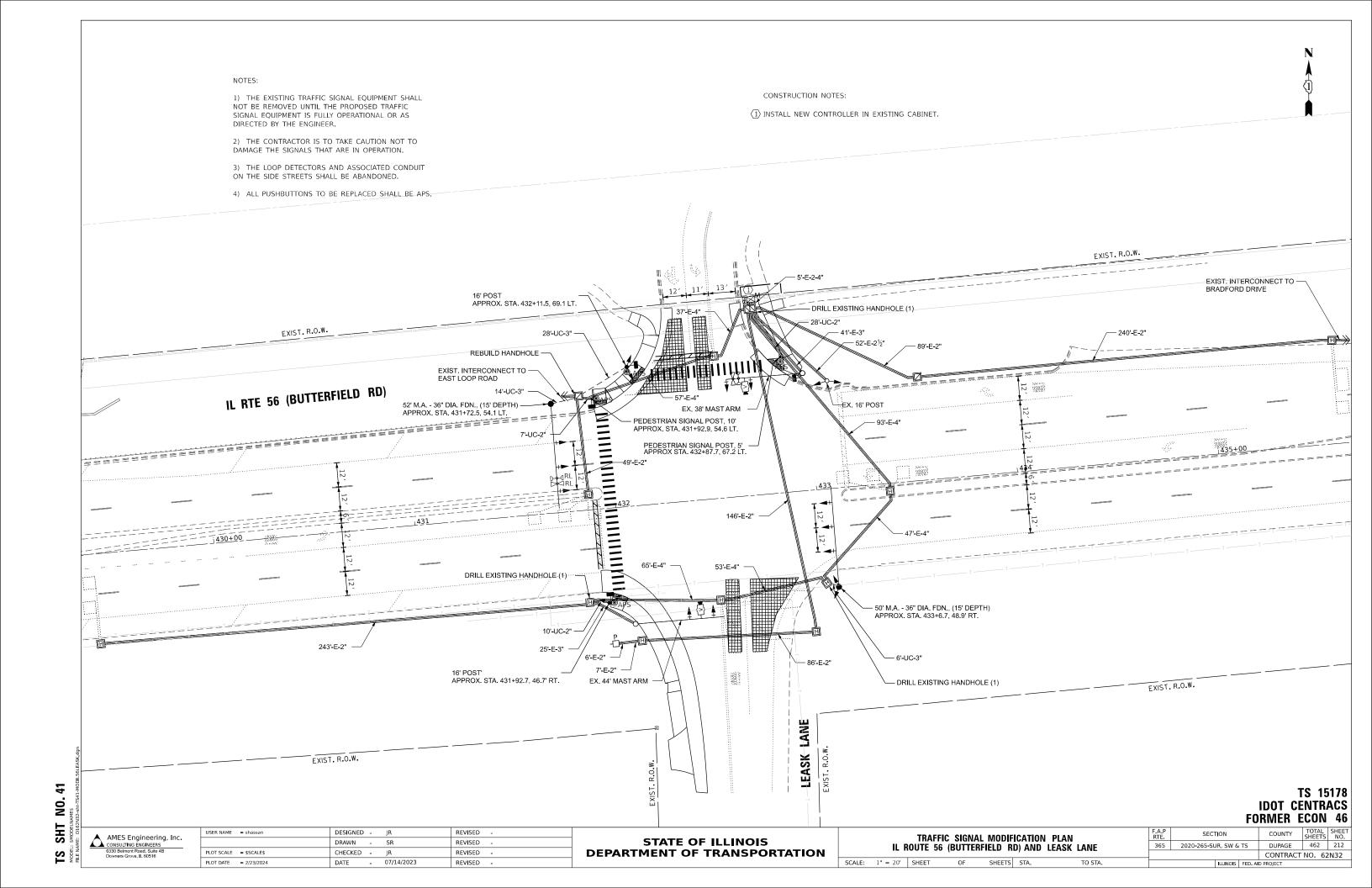
COUNTY

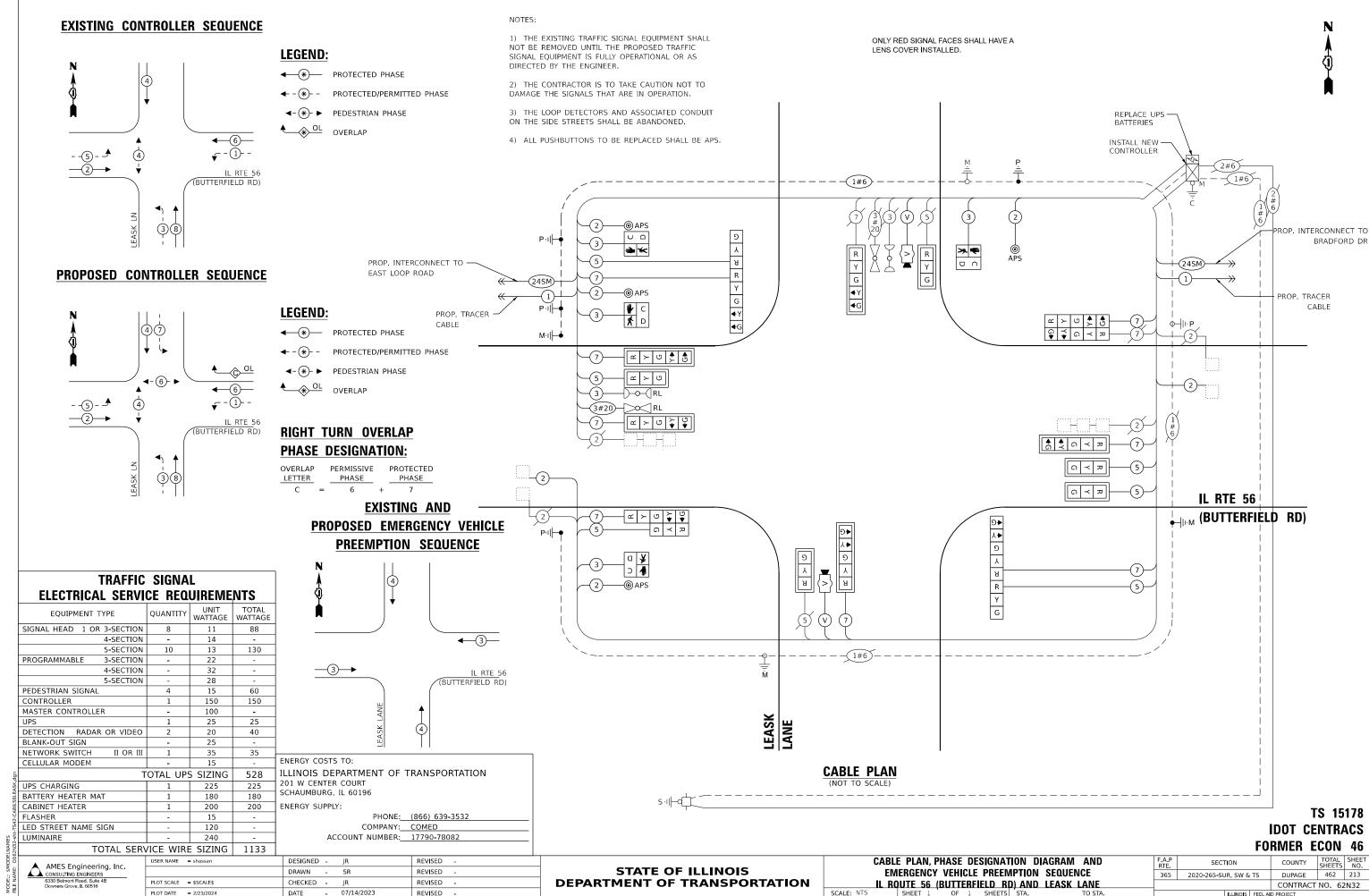
SHT

NO. 39

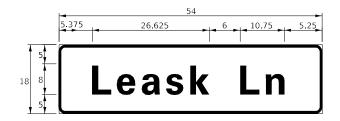
| USER NAME = shassan | DESIGNED | - | JR | REVISED - |
|------------------------|----------|---|------------|-----------|
| | DRAWN | - | SR | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED | - | JR | REVISED - |
| PLOT DATE = 2/23/2024 | DATE | - | 07/14/2023 | REVISED - |







SIGN PANEL - TYPE 1 OR TYPE 2



| DESIGN | AREA | SIGN PANEL | SHEETING | QTY. |
|--------|---------|------------|----------|----------|
| SERIES | (SQ FT) | TYPE | TYPE | REQUIRED |
| D | 6.75 | 1 | ZZ | |

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

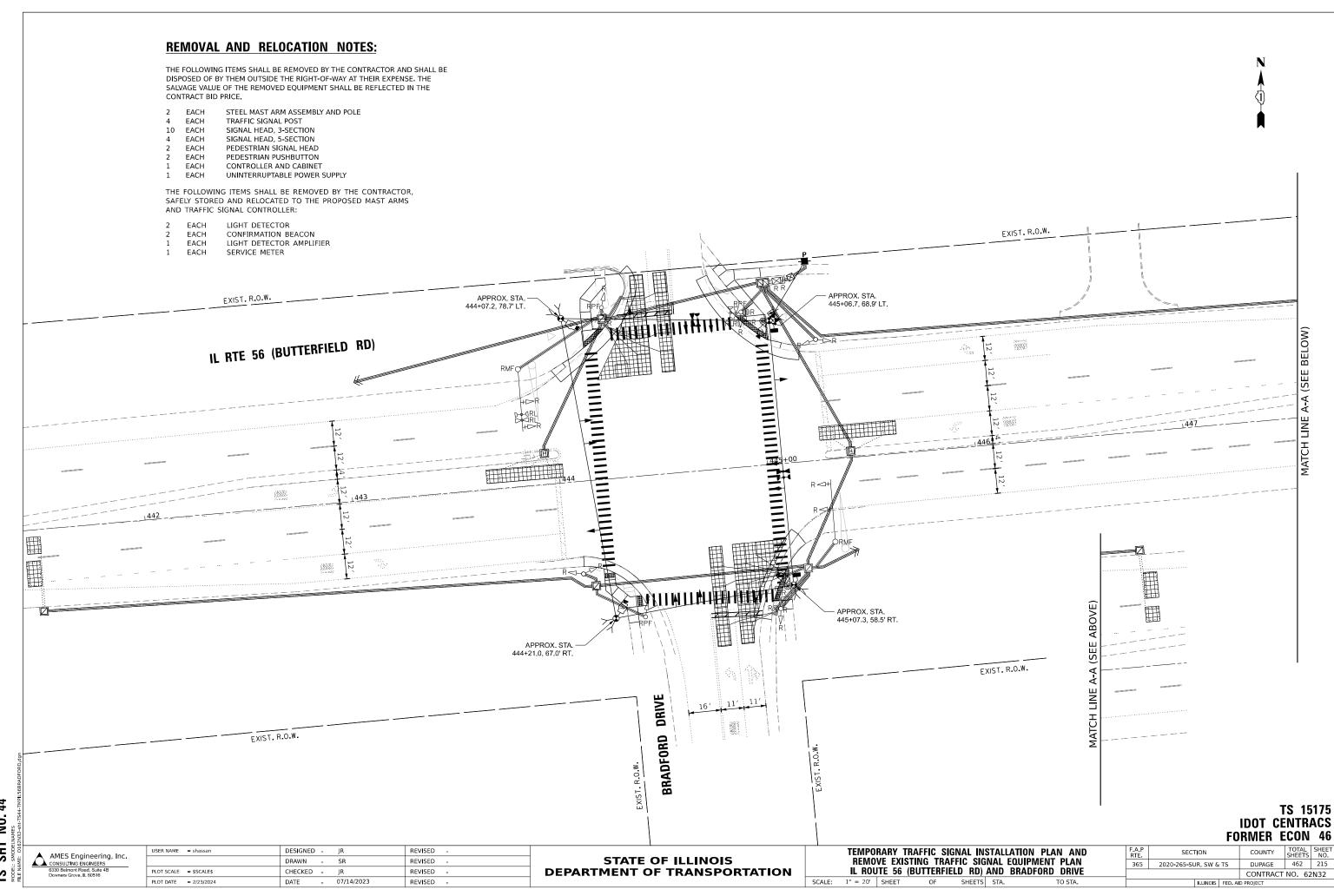
SCHEDULE OF QUANTITIES

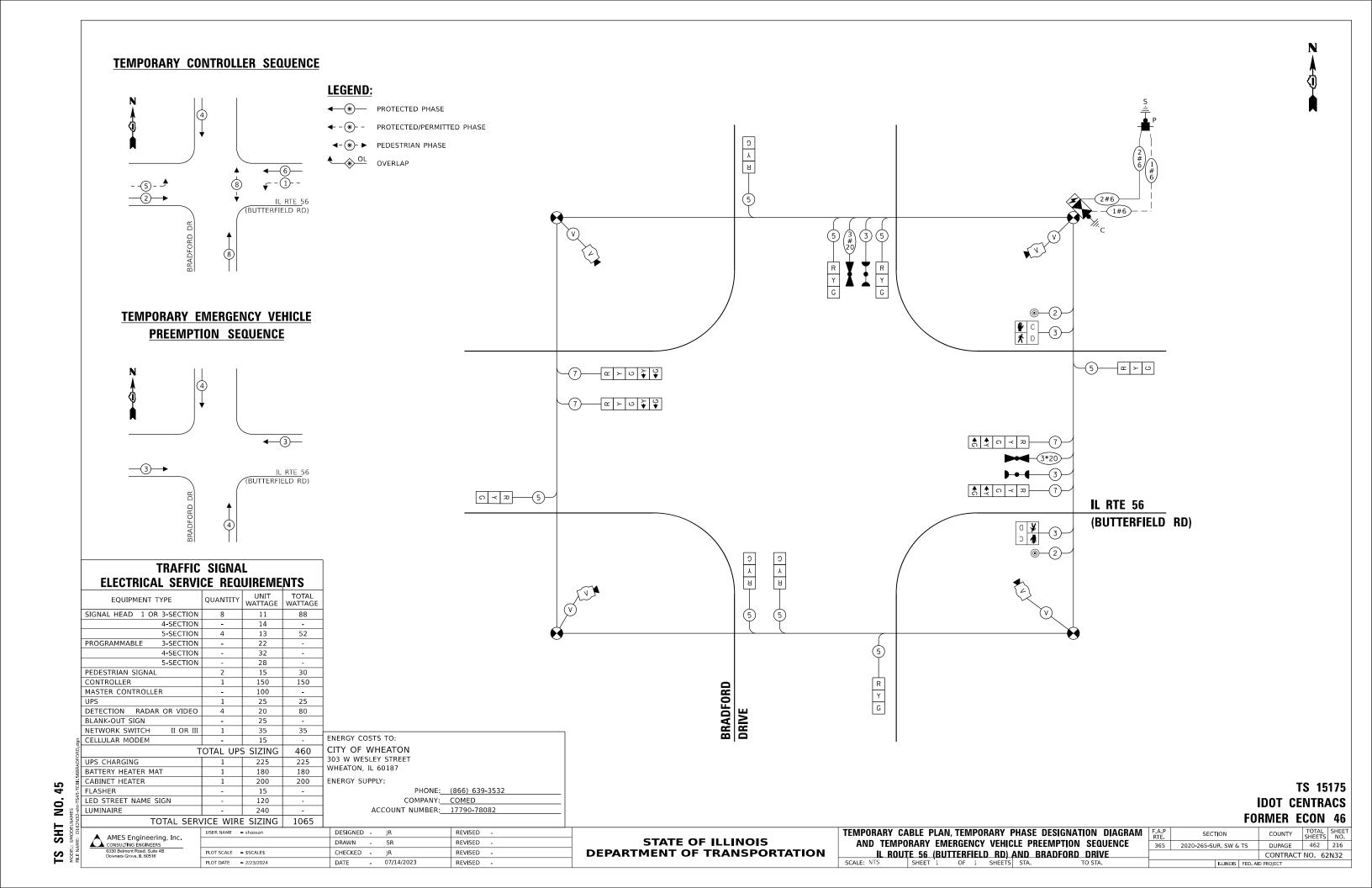
| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|--|-------|---------------|
| SIGN PANEL - TYPE 1 | SQ FT | 13.5 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 45 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 48 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 685 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 940 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 1389 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 1459 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 885 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 857 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 2 |
| STEEL MAST ARM ASSEMBLY AND POLE, 50 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE, 52 FT. | EACH | 1 |
| CONCRETE FOUNDATION, TYPE A | FOOT | 8 |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 30 |
| DRILL EXISTING HANDHOLE | EACH | 3 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 5 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 3 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 5 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 5 |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 4 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 10 |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT | EACH | 1 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REBUILD EXISTING HANDHOLE | EACH | 1 |
| REMOVE EXISTING CONCRETE FOUNDATION | EACH | 4 |
| EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C | FOOT | 206 |
| LAYER II (DATALINK) SWITCH | EACH | 1 |
| PEDESTRIAN SIGNAL POST, 10 FT. | EACH | 1 |
| PEDESTRIAN SIGNAL POST, 5 FT. | EACH | 1 |
| VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH | EACH | 2 |
| FULL-ACTUATED CONTROLLER IN EXISTING CABINET | EACH | 1 |
| REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 4 |
| CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER | FOOT | 8 |
| LED SIGNAL FACE, LENS COVER | EACH | 18 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER, 24 PORT | EACH | 1 |
| LED SIGNAL MODULE REPLACEMENT | EACH | 4 |

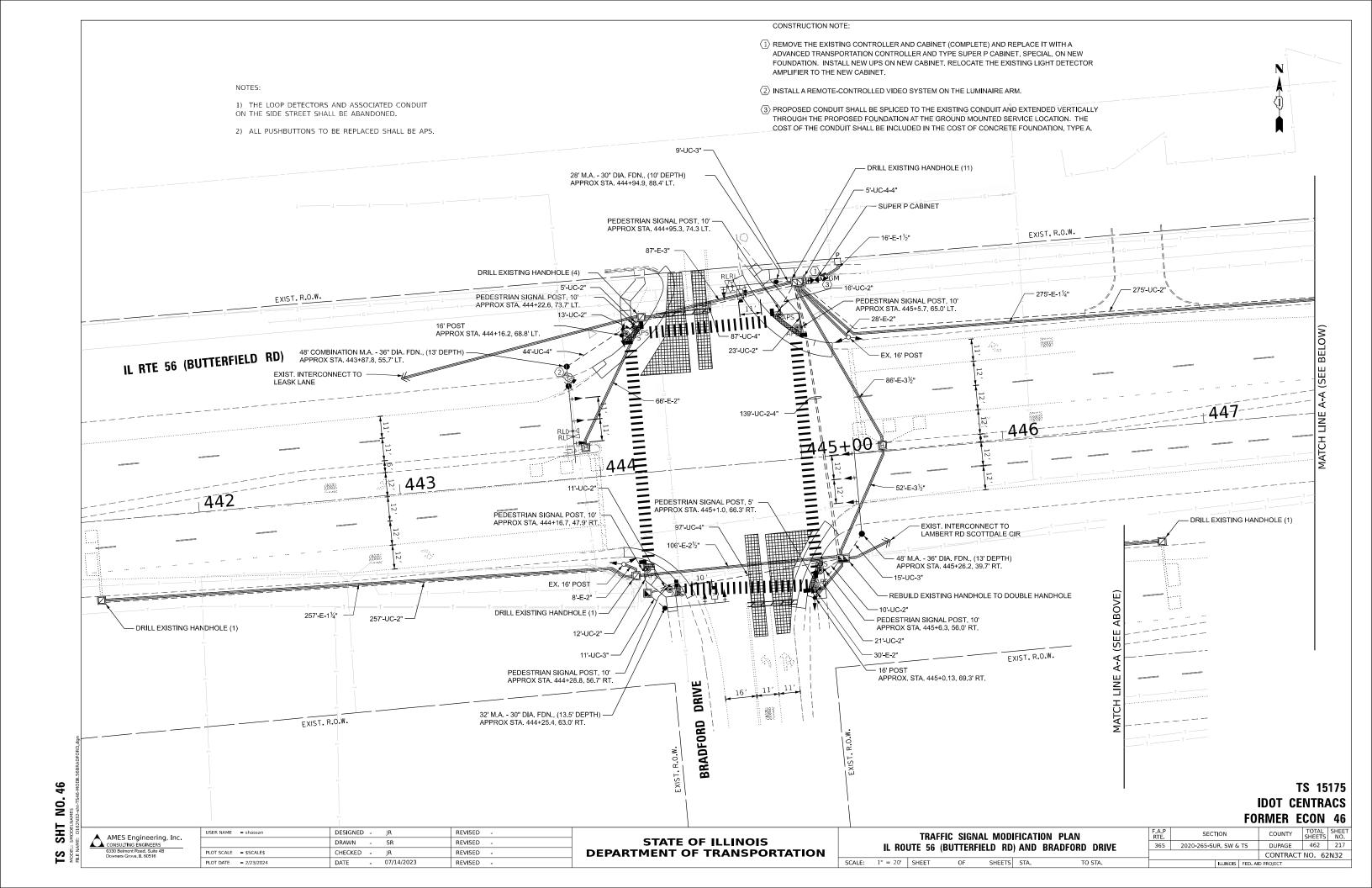
TS 15178 IDOT CENTRACS FORMER ECON 46

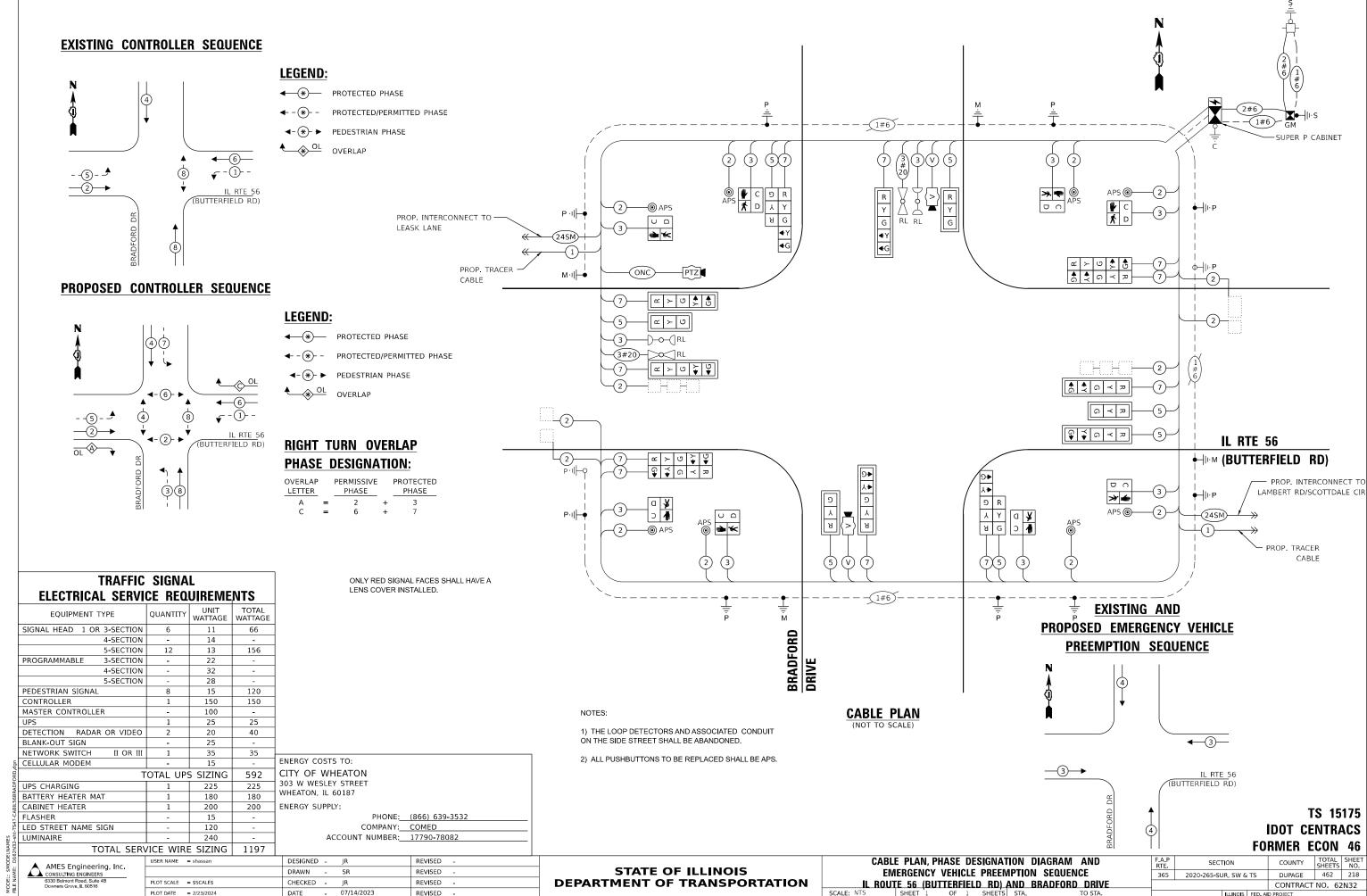
S SHOT LINE SERVICE SWOOT IN THE SERVICE SWOOT IN T

| USER NAME = shassan | DESIGNED - JR | REVISED - |
|------------------------|-------------------|-----------|
| | DRAWN - SR | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - JR | REVISED - |
| PLOT DATE = 2/23/2024 | DATE - 07/14/2023 | REVISED - |

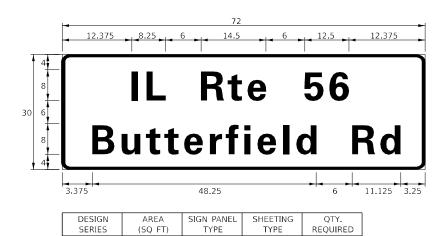








SIGN PANEL – TYPE 1 OR TYPE 2



ZZ

| | 4.875 40.125 66 | 10.125 4.875 |
|------------------------|-----------------|--------------|
| 5 18 8 18 5 5 | Bradford | Dr |

(SQ FT)

15.0

D

| DESIGN | AREA | SIGN PANEL | SHEETING | QTY. |
|--------|---------|------------|----------|----------|
| SERIES | (SQ FT) | TYPE | TYPE | REQUIRED |
| D | 8.25 | 1 | ZZ | 2 |

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

SCHEDULE OF QUANTITIES

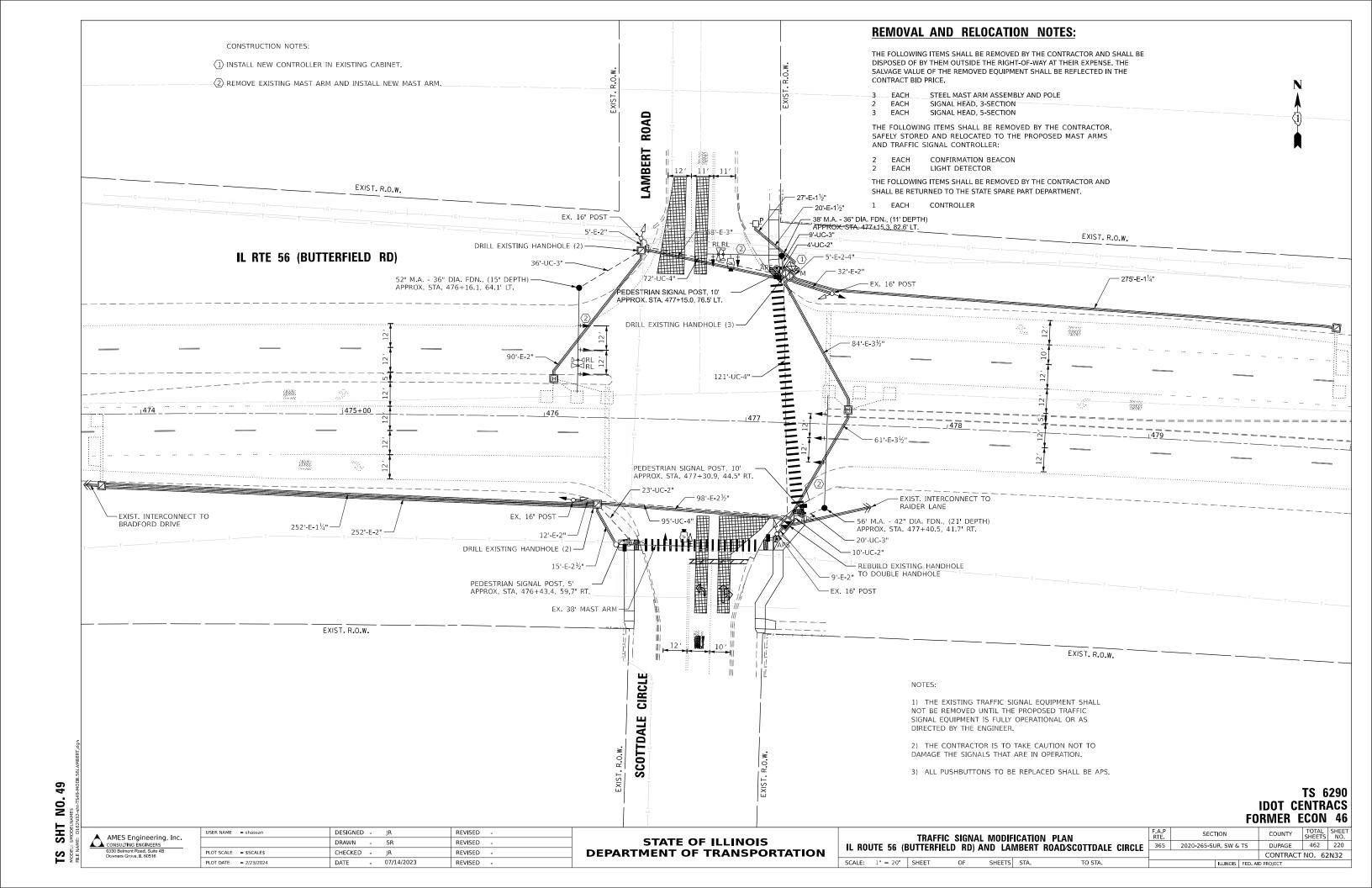
| ITEM DESCRIPTION | UNITS | TOTAI QTY. |
|--|-------|---------------|
| SIGN PANEL - TYPE 1 | SQ FT | 16.5 |
| SIGN PANEL - TYPE 2 | SQ FT | 30 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 643 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 35 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 526 |
| HANDHOLE | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 1341 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 1719 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 1589 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 2434 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 2007 |
| ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C | FOOT | 50 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 1732 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 2 |
| STEEL MAST ARM ASSEMBLY AND POLE, 28 FT. | EACH | 1 |
| STEEL MAST ARM ASSENBLY AND POLE, 32 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE, 48 FT. | EACH | 1 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT. | EACH | 1 |
| CONCRETE FOUNDATION, TYPE A | FOOT | 12 |
| CONCRETE FOUNDATION, TYPE C | FOOT | 4 |
| CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER | FOOT | 23.5 |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 26 |
| DRILL EXISTING HANDHOLE | EACH | 18 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 4 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 2 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 6 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 6 |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 8 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 10 |
| NDUCTIVE LOOP DETECTOR | EACH | 6 |
| TEMPORARY TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT | EACH | 2 |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT | EACH | 1 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REMOVE EXISTING CONCRETE FOUNDATION | EACH | 5 |
| EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C | FOOT | 286 |
| ADVANCED TRANSPORTATION CONTROLLER AND TYPE SUPER P CABINET, SPECIAL | EACH | 1 |
| OUTDOOR RATED NETWORK CABLE | FOOT | 201 |
| SERVICE INSTALLATION, GROUND MOUNTED, METERED | EACH | 1 |
| REMOTE CONTROLLED VIDEO SYSTEM | EACH | 1 |
| LAYER II (DATALINK) SWITCH | EACH | 1 |
| PEDESTRIAN SIGNAL POST, 10 FT. | EACH | 6 |
| PEDESTRIAN SIGNAL POST, 5 FT. | EACH | 1 |
| VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH | EACH | 2 |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL | EACH | 1 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 8 |
| CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER | FOOT | 28 |
| LED SIGNAL FACE, LENS COVER | EACH | 18 |
| TEMPORARY TRAFFIC SIGNAL TIMING | EACH | 1 |
| REBUILD EXISTING HANDHOLE TO DOUBLE HANDHOLE | EACH | 1 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER, 24 PORT | EACH | 1 |

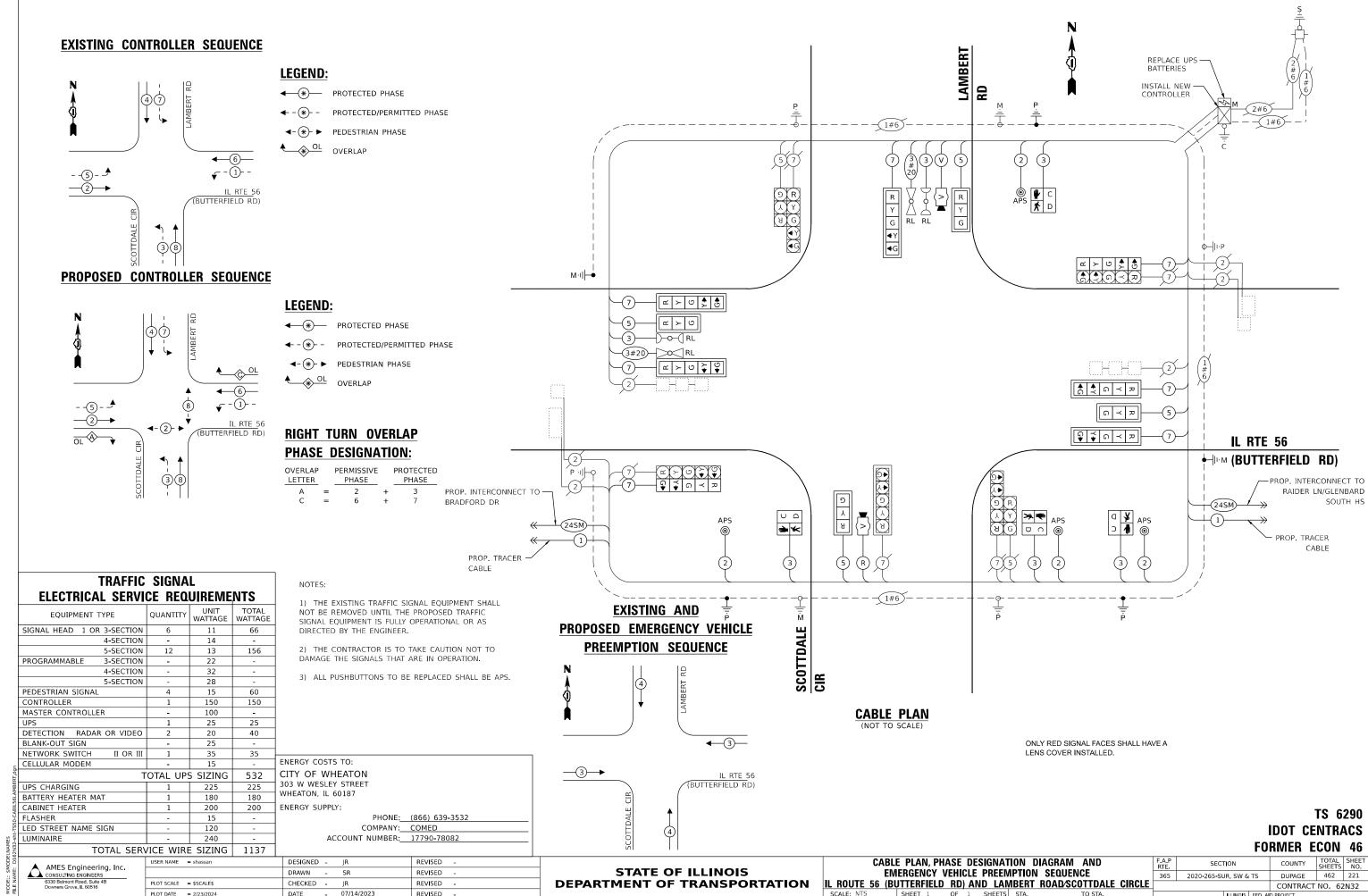
TS 15175 **IDOT CENTRACS FORMER ECON 46**

SHT

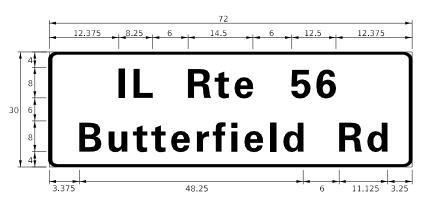
NO. 48

| USER NAME = shassan | DESIGNED - JR | REVISED - |
|------------------------|-------------------|-----------|
| | DRAWN - SR | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - JR | REVISED - |
| PLOT DATE = 2/23/2024 | DATE - 07/14/2023 | REVISED - |

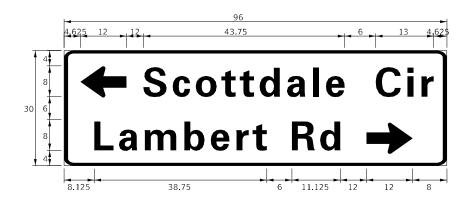




SIGN PANEL - TYPE 1 OR TYPE 2

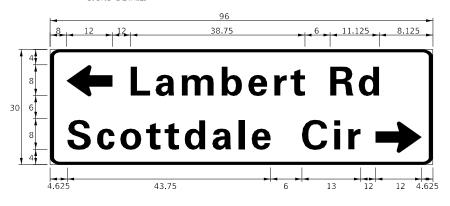


| DESIGN | AREA | SIGN PANEL | SHEETING | QTY. |
|--------|---------|------------|----------|----------|
| SERIES | (SQ FT) | TYPE | TYPE | REQUIRED |
| D | 15.0 | 2 | ZZ | 2 |



| DESIGN | AREA | SIGN PANEL | SHEETING | QTY. |
|--------|---------|------------|----------|----------|
| SERIES | (SO FT) | TYPE | TYPE | REOUIRED |
| D | 20 | 2 | ZZ | |

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



| DESIGN | AREA | SIGN PANEL | SHEETING | QTY. |
|--------|---------|------------|----------|----------|
| SERIES | (SQ FT) | TYPE | TYPE | REQUIRED |
| D | 20 | 2 | ZZ | |

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

SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|--|-------|---------------|
| SIGN PANEL - TYPE 2 | SQ FT | 70 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 37 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 65 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 288 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 667 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 958 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 813 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 1267 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 706 |
| STEEL MAST ARM ASSEMBLY AND POLE, 38 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE, 52 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE, 56 FT. | EACH | 1 |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 26 |
| CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER | FOOT | 21 |
| DRILL EXISTING HANDHOLE | EACH | 7 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 4 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 2 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 5 |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 4 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 9 |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT | EACH | 2 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REMOVE EXISTING CONCRETE FOUNDATION | EACH | 2 |
| EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C | FOOT | 264 |
| LAYER II (DATALINK) SWITCH | EACH | 1 |
| PEDESTRIAN SIGNAL POST, 10 FT. | EACH | 2 |
| PEDESTRIAN SIGNAL POST, 5 FT. | EACH | 1 |
| VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH | EACH | 2 |
| FULL-ACTUATED CONTROLLER IN EXISTING CABINET | EACH | 1 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 4 |
| CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER | FOOT | 12 |
| LED SIGNAL FACE, LENS COVER | EACH | 18 |
| REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 |
| REBUILD EXISTING HANDHOLE TO DOUBLE HANDHOLE | EACH | 1 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER, 24 PORT | EACH | 1 |
| LED SIGNAL MODULE REPLACEMENT | EACH | 7 |

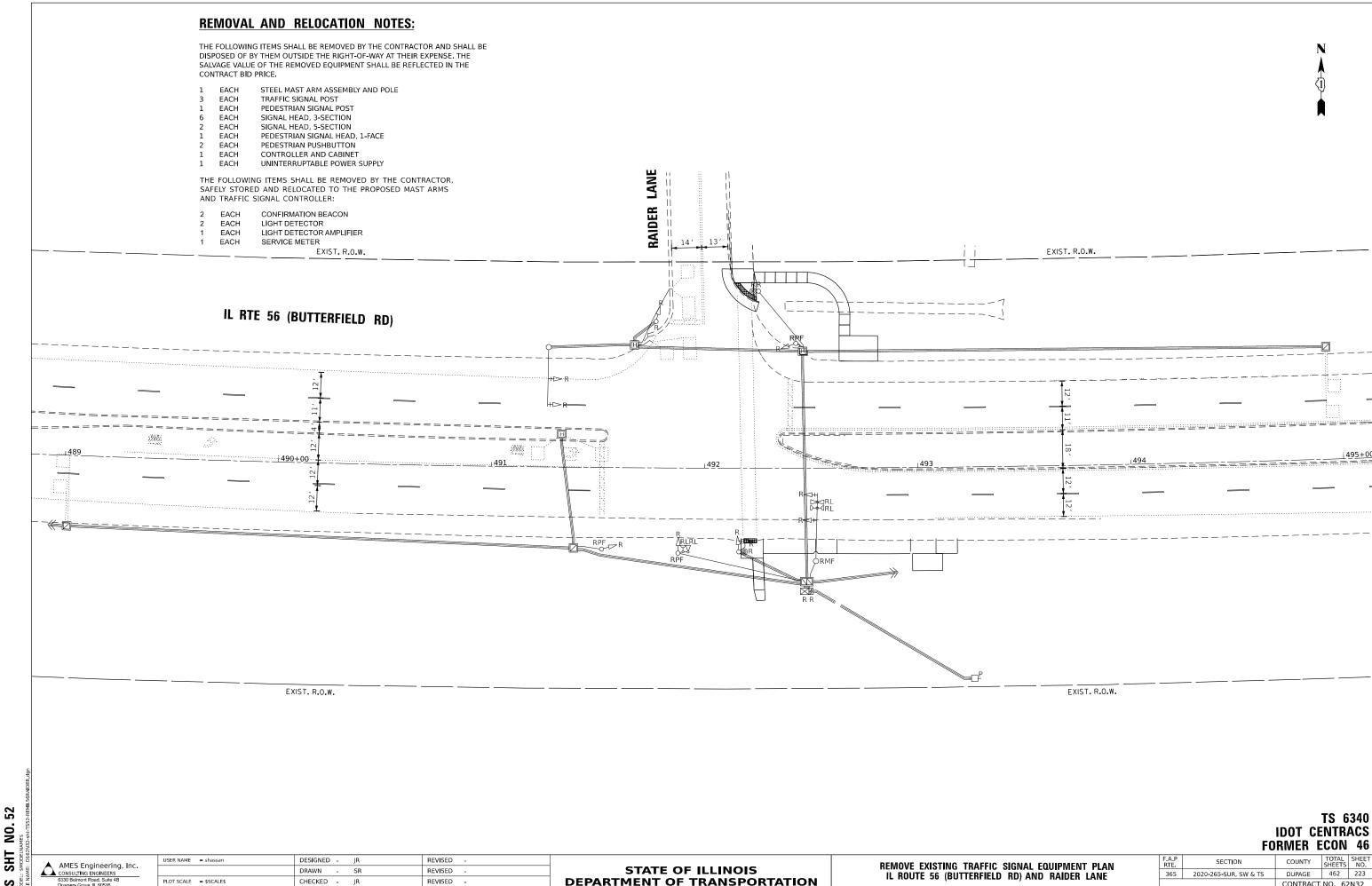
TS 6290 **IDOT CENTRACS FORMER ECON 46**

CONTRACT NO. 62N32

COUNTY

SHT AMES Engineering, Inc.

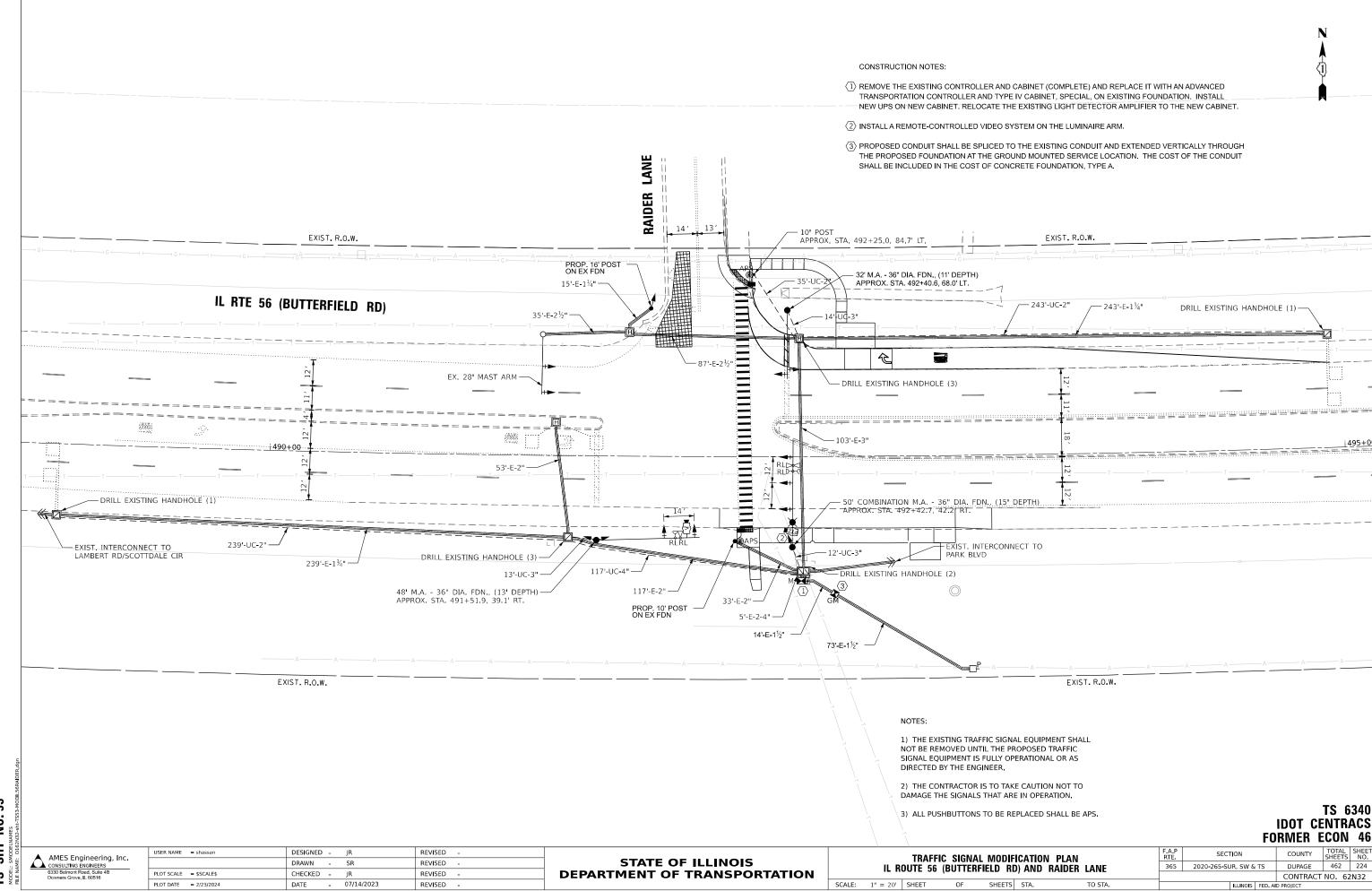
| USER NAME = shassan | DESIGNED | - | JR | REVISED | - |
|------------------------|----------|---|------------|---------|---|
| | DRAWN | - | SR | REVISED | - |
| PLOT SCALE = \$SCALE\$ | CHECKED | - | JR | REVISED | - |
| PLOT DATE = 2/23/2024 | DATE | - | 07/14/2023 | REVISED | - |
| | | | | | |

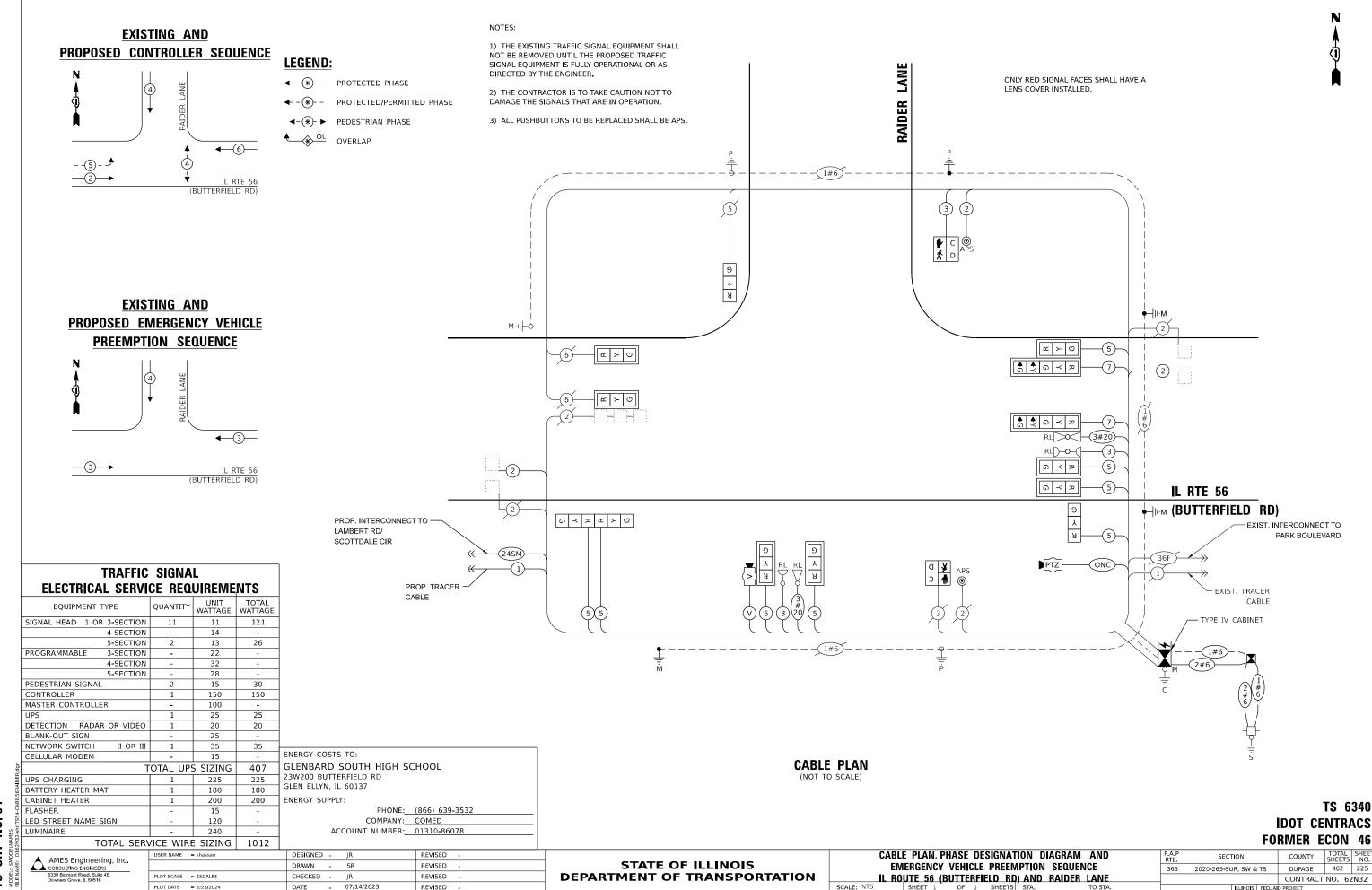


REVISED PLOT DATE = 2/23/2024 - 07/14/2023 REVISED

DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 20' SHEET SHEETS STA. CONTRACT NO. 62N32

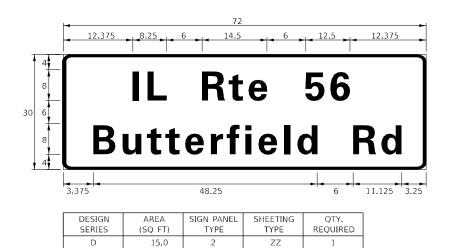


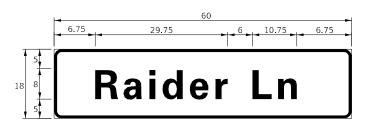


PLOT DATE = 2/23/2024

REVISED -

SIGN PANEL – TYPE 1 OR TYPE 2





15.0

| DESIGN | AREA | SIGN PANEL | SHEETING | QTY. |
|--------|---------|------------|----------|----------|
| SERIES | (SO FT) | TYPE | TYPE | REOUIRED |
| D | 7.5 | 1 | ZZ | 2 |

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

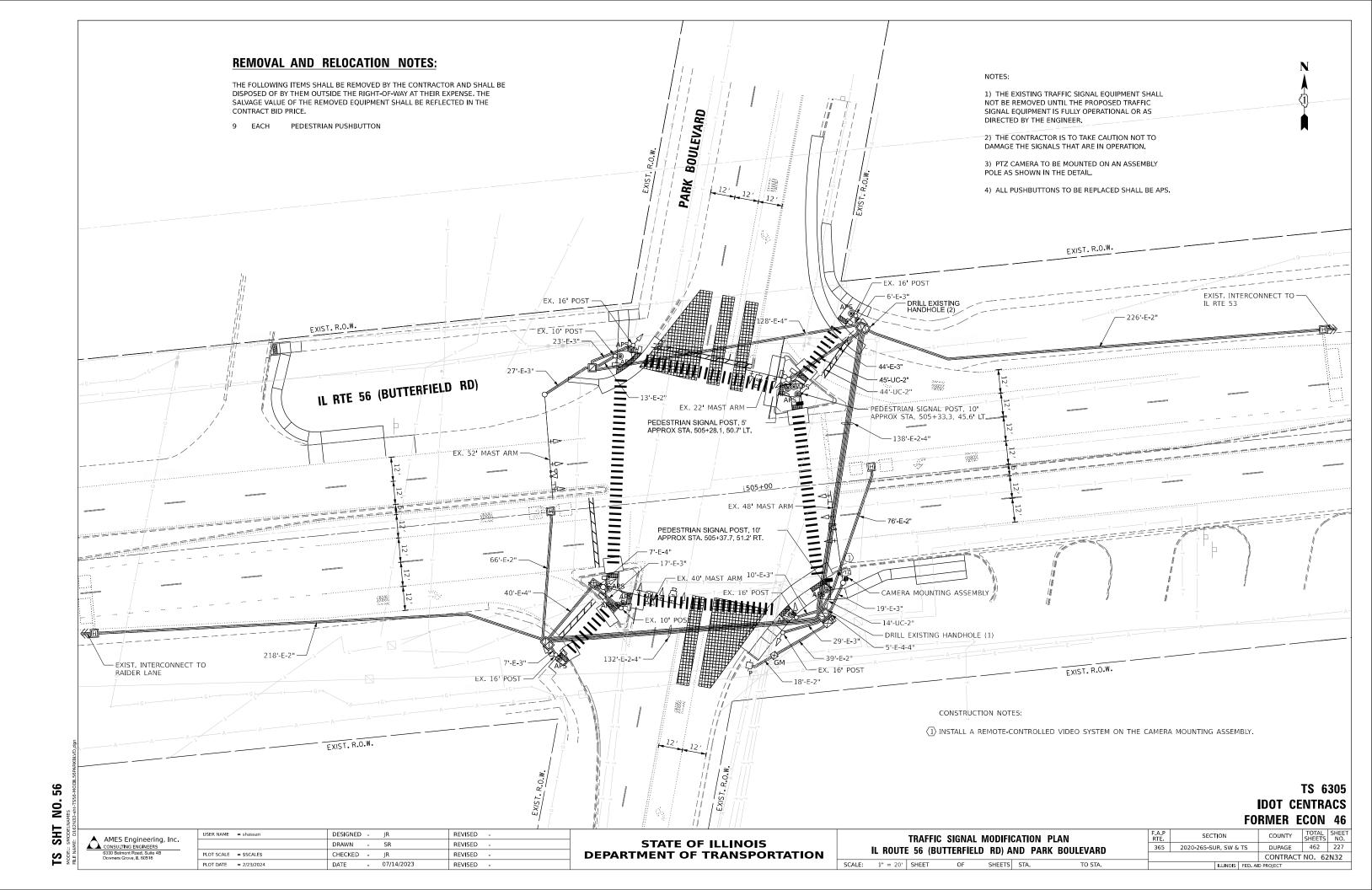
SCHEDULE OF QUANTITIES

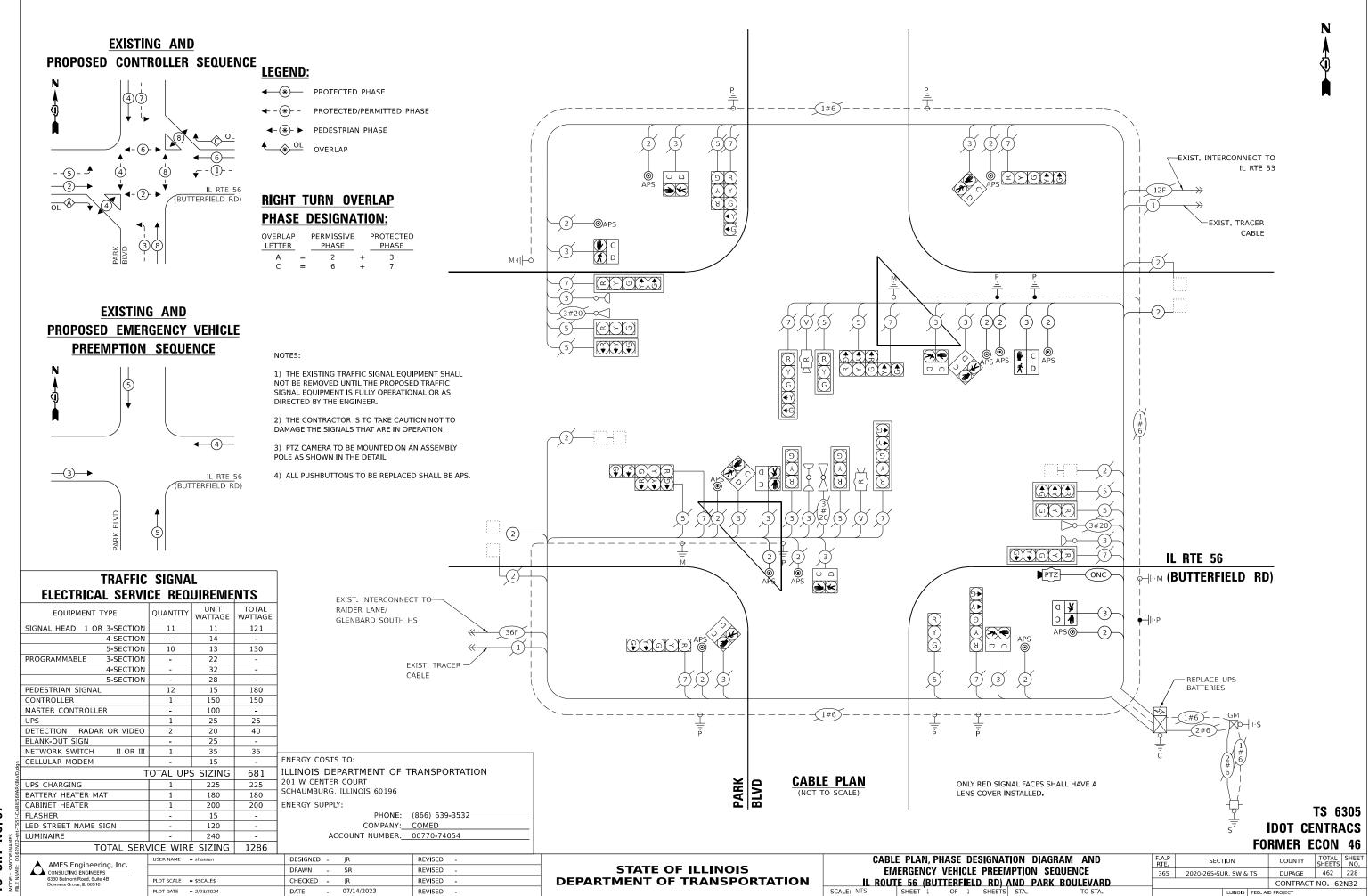
| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|--|-------|---------------|
| SIGN PANEL - TYPE 1 | SQ FT | 15 |
| SIGN PANEL - TYPE 2 | SQ FT | 15 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 517 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 39 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 117 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 173 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 502 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 1195 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 275 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 771 |
| ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C | FOOT | 100 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 449 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE. 32 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE, 48 FT. | EACH | 1 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 50 FT. | EACH | 1 |
| CONCRETE FOUNDATION, TYPE A | FOOT | 4 |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 39 |
| DRILL EXISTING HANDHOLE | EACH | 10 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 7 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 4 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 2 |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 2 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 7 |
| INDUCTIVE LOOP DETECTOR | EACH | 5 |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT | EACH | 2 |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT | EACH | 1 |
| RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REMOVE EXISTING CONCRETE FOUNDATION | EACH | 3 |
| EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C | FOOT | 320 |
| OUTDOOR RATED NETWORK CABLE | FOOT | 82 |
| SERVICE INSTALLATION, GROUND MOUNTED, METERED | EACH | 1 |
| REMOTE-CONTROLLED VIDEO SYSTEM | EACH | 1 |
| LAYER II (DATALINK) SWITCH | EACH | 1 |
| PEDESTRIAN SIGNAL POST. 10 FT. | EACH | 2 |
| VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH | EACH | 1 |
| RELOCATE EXISTING SIGN PANEL | EACH | 2 |
| UNINTERRUPTABLE POWER SUPPLY. SPECIAL | EACH | 1 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 2 |
| | | |
| CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER | FOOT | 4 |
| LED SIGNAL FACE, LENS COVER | EACH | 13 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER, 24 PORT | EACH | 1 |

TS 6340 **IDOT CENTRACS FORMER ECON 46**

| _ | 2 IN | |
|-------------------------|------|-----------------------------|
| × | 96 | |
| $\overline{\mathbf{x}}$ | ž ii | AMES Engineering, Inc. |
| •, | ¥ | CONSULTING ENGINEERS |
| 4.0 | 교호 | 6330 Belmont Road, Suite 4B |
| $\boldsymbol{\sigma}$ | 片백 | Downers Grove, IL 60516 |

| USER NAME = shassan | DESIGNED - JR | REVISED - |
|------------------------|-------------------|-----------|
| | DRAWN - SR | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - JR | REVISED - |
| PLOT DATE = 2/23/2024 | DATE - 07/14/2023 | REVISED - |
| | | |





NO. 58 SHT AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516

USER NAME = shassan DESIGNED - JR REVISED DRAWN - SR REVISED REVISED -_ 07/14/2023 PLOT DATE = 2/23/2024 DATE REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

| MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES | | | | | |
|---|---------|------------|-------------|----------------|--|
| IL ROUT | E 56 (I | BUTTERFIEL | D RD) AND | PARK BOULEVARD | |
| SCALE: NTS | SHEET | | SHEETS STA. | | |

| IDOT CENTRACS | | | | | |
|---------------------------|---------------------------|--------|-----------------|--------------|--|
| | F0 | RMER E | CON | 46 | |
| F.A.P RTE. SECTION | | COUNTY | TOTAL SHEETS | SHEET NO. | |
| 365 2020-265-SUR, SW & TS | | DUPAGE | 462 | 229 | |
| CONTRACT NO. 62N32 | | | | | |
| | ILLINOIS FED. AID PROJECT | | | | |

TS 6305

TOTAL QTY.

103

2

943

268

796 418

3

1

84

12

12 21

10

1

1

21

UNITS FOOT

EACH EACH

FOOT

FOOT

FOOT

FOOT

EACH

EACH EACH

EACH

EACH

EACH EACH

SCHEDULE OF QUANTITIES UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PAINT NEW TRAFFIC SIGNAL POST ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE BRACKET MOUNTED WITH COUNTDOWN TIMER

FOOT OUTDOOR RATED NETWORK CABLE REMOTE CONTROLLED VIDEO SYSTEM EACH LAYER II (DATALINK) SWITCH EACH UPGRADE EXISTING CONTROLLER TO NTCIP (SPECIAL) EACH EACH PEDESTRIAN SIGNAL POST, 10 FT. PEDESTRIAN SIGNAL POST, 5 FT. EACH ACCESSIBLE PEDESTRIAN SIGNALS FOOT CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER EACH LED SIGNAL FACE, LENS COVER LED PEDESTRIAN SIGNAL MODULE REPLACEMENT EACH EACH CAMERA MOUNTING ASSEMBLY

REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED

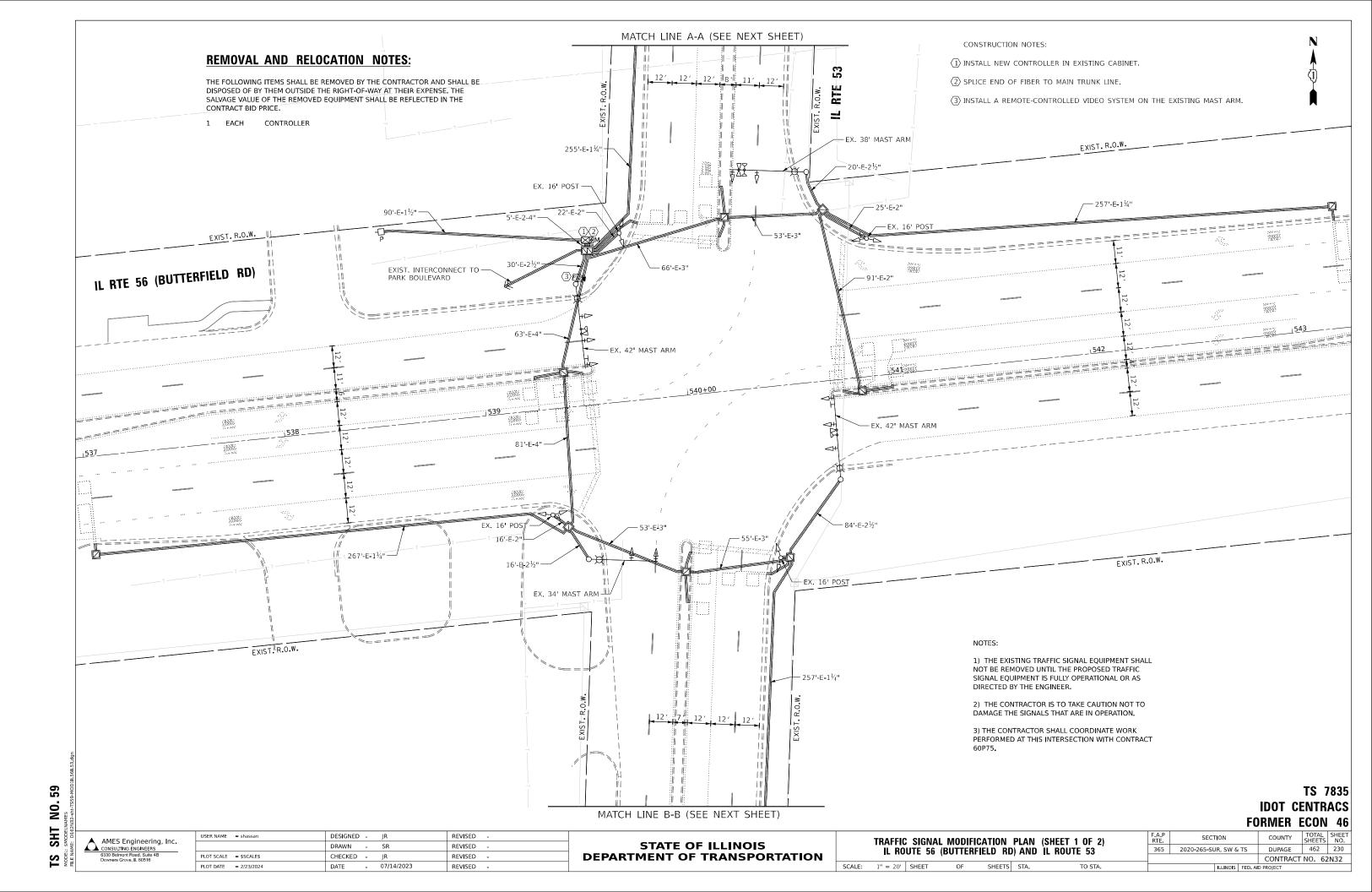
DRILL EXISTING HANDHOLE

CENTRACS LICENSE EXPANSION

LED SIGNAL MODULE REPLACEMENT

FIBER OPTIC INTERCONNECT CENTER, 24 PORT

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT



| USER NAME = shassan | DESIGNED | - | JR | REVISED | - |
|------------------------|----------|---|------------|---------|---|
| | DRAWN | - | SR | REVISED | - |
| PLOT SCALE = \$SCALE\$ | CHECKED | - | JR | REVISED | - |
| PLOT DATE = 2/23/2024 | DATE | - | 07/14/2023 | REVISED | - |
| | | | | | |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN (SHEET 2 OF 2) IL ROUTE 56 (BUTTERFIELD RD) AND IL ROUTE 53 SCALE: 1" = 20' SHEET SHEETS STA.

FORMER ECON 46
 F.A.P RTE.
 SECTION
 COUNTY
 TOTAL SHEETS
 SHEET NO.

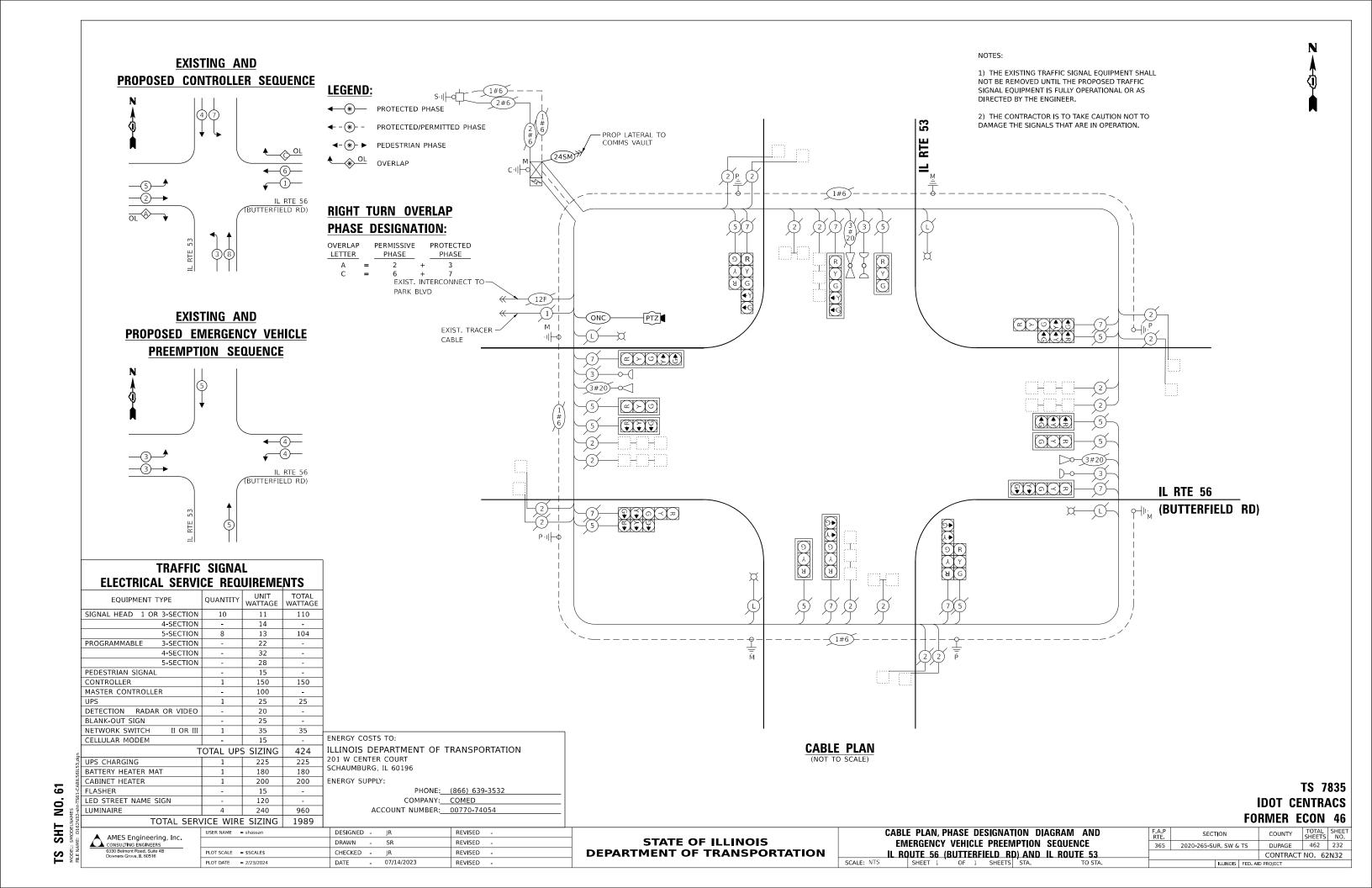
 365
 2020-265-SUR, SW & TS
 DUPAGE
 462
 231
 CONTRACT NO. 62N32

TS 7835 IDOT CENTRACS

MATCH LINE B-B (SEE PREVIOUS SHEET) 53 RTE

MATCH LINE A-A (SEE PREVIOUS SHEET)

IL RTE



SHT NO. 62 AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516

USER NAME = shassan DESIGNED - JR REVISED DRAWN - SR REVISED -CHECKED - JR DATE - 07/14/2023 PLOT SCALE = \$SCALE\$ REVISED -PLOT DATE = 2/23/2024 REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

| IL RO | | | OF QUANTITIE ELD RD) AND | S IL ROUTE 53 |
|------------|---------|------|-----------------------------|------------------|
| SCALE: NTS | SHEET 1 | OF 1 | SHEETS STA. | TO STA. |

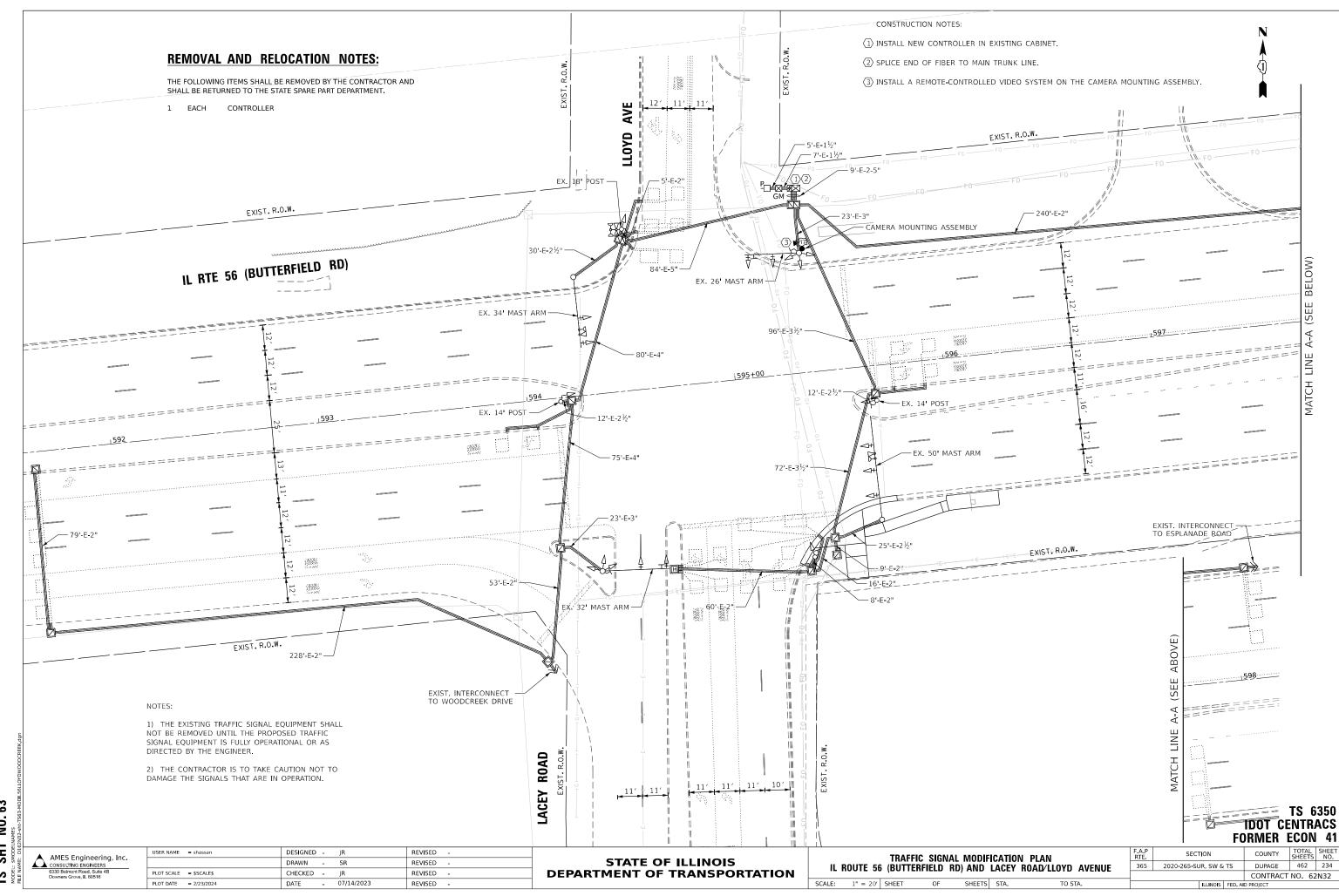
| | FO | RMER E | CON | 46 |
|---------------------------|------------------|-----------|-----------------|--------------|
| F.A.P RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 365 2020-265-SUR, SW & TS | | DUPAGE | 462 | 233 |
| | | CONTRACT | NO. 62 | N32 |
| | ILLINOIS FED. AI | D PROJECT | | |

IDOT CENTRACS

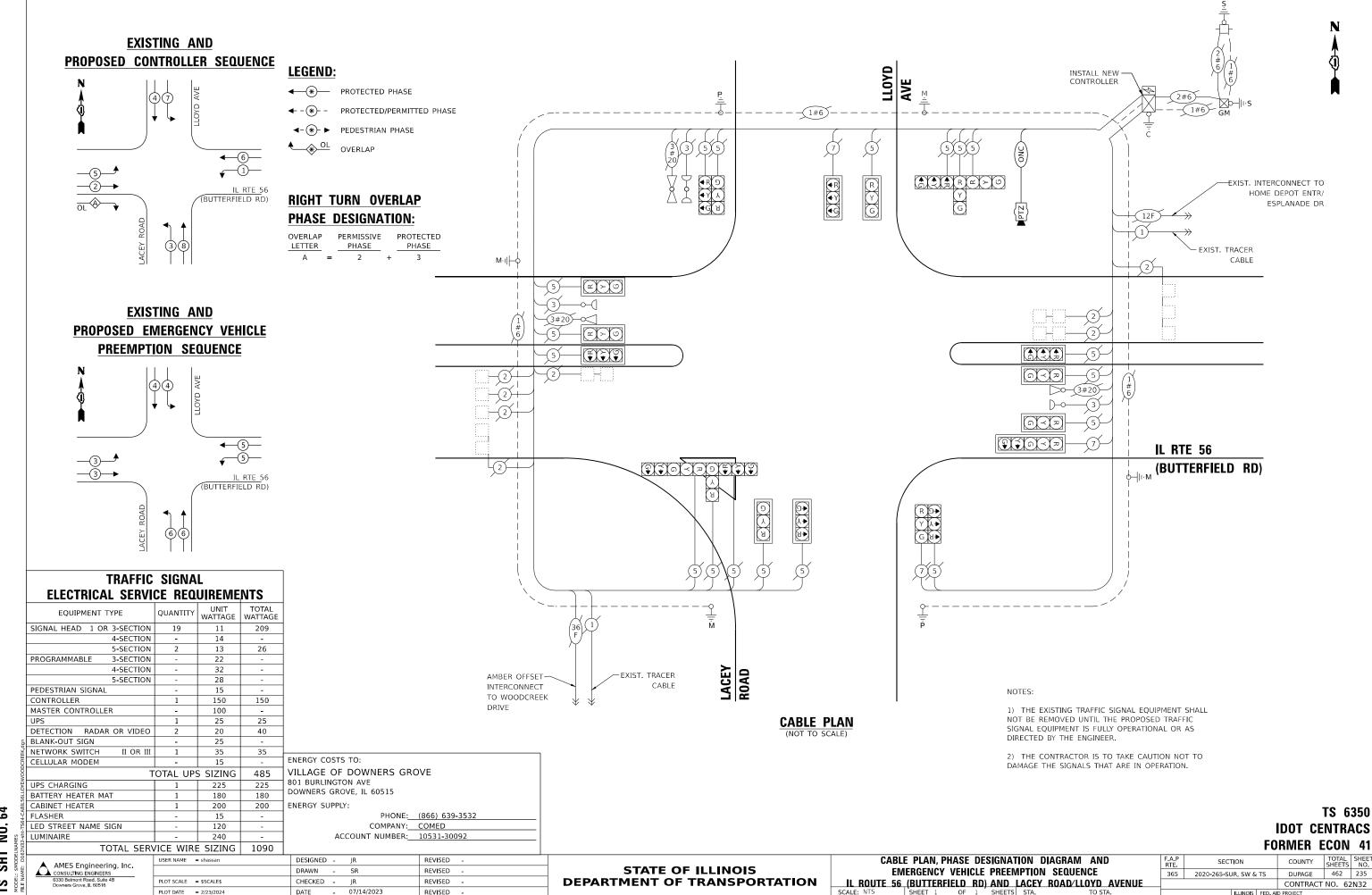
TS 7835

| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|---|-------|---------------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| OUTDOOR RATED NETWORK CABLE | FOOT | 95 |
| REMOTE CONTROLLED VIDEO SYSTEM | EACH | 1 |
| LAYER II (DATALINK) SWITCH | EACH | 1 |
| FULL-ACTUATED CONTROLLER IN EXISTING CABINET | EACH | 1 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER, 24 PORT | EACH | 1 |

SCHEDULE OF QUANTITIES



NO. 63 SHT



AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES IL ROUTE 56 (BUTTERFIELD RD) AND LACEY ROAD/LLOYD AVENUE SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

TS 6350

| SCHEDULE OF QUANTITIES | | | | |
|--|-------|---------------|--|--|
| ITEM DESCRIPTION | UNITS | TOTAL QTY. | | |
| AINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 | | |
| JTDOOR RATED NETWORK CABLE | FOOT | 94 | | |
| MOTE CONTROLLED VIDEO SYSTEM | EACH | 1 | | |
| YER II (DATALINK) SWITCH | EACH | 1 | | |
| ILL-ACTUATED CONTROLLER IN EXISTING CABINET | EACH | 1 | | |
| AMERA MOUNTING ASSEMBLY | EACH | 1 | | |
| ENTRACS LICENSE EXPANSION | EACH | 1 | | |
| BER OPTIC INTERCONNECT CENTER 24 PORT | EΔCH | 1 | | |



AMES Engineering, Inc.

DESIGNED -

SR

_ 07/14/2023

DRAWN

DATE

USER NAME = shassar

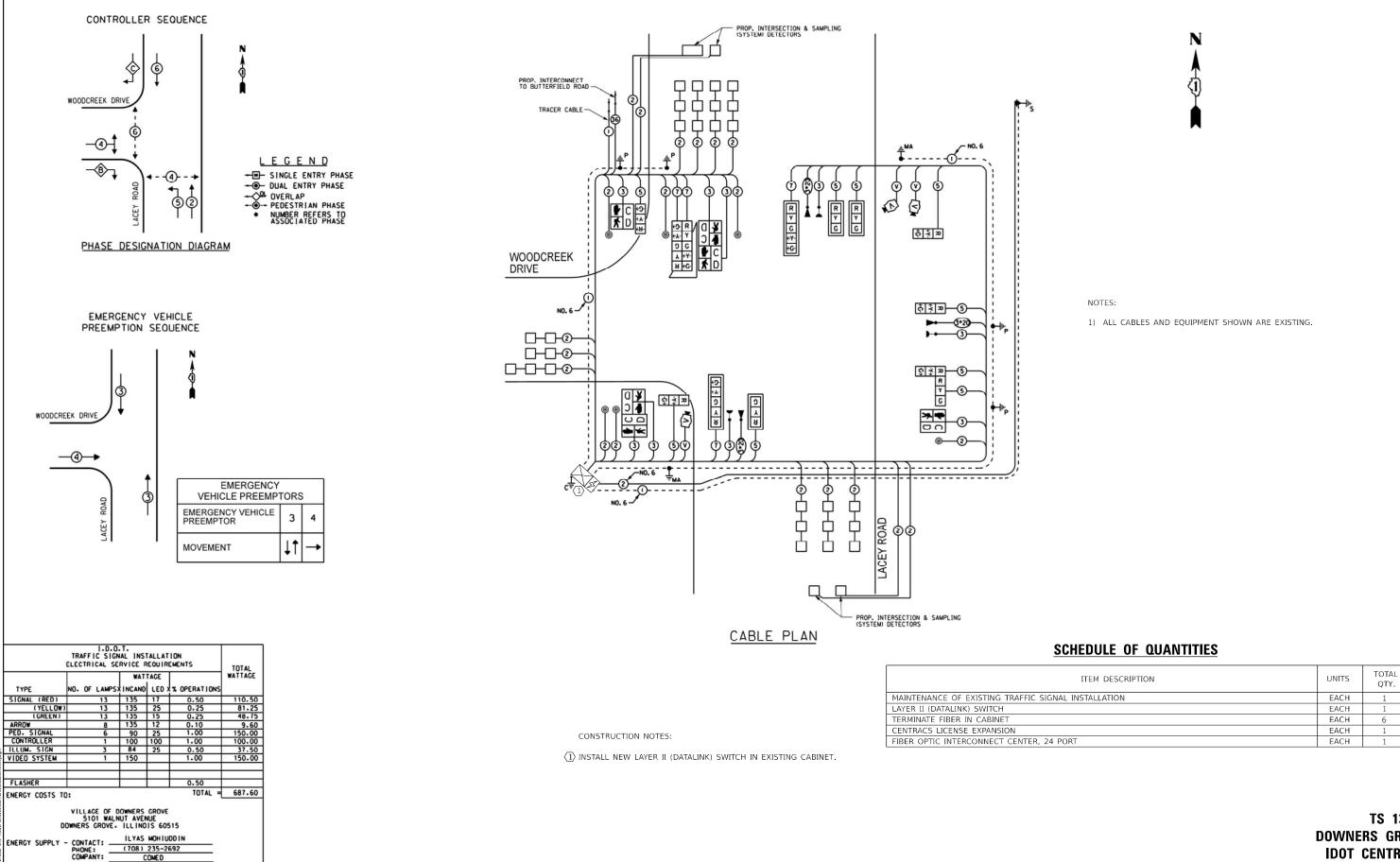
PLOT DATE = 2/23/2024

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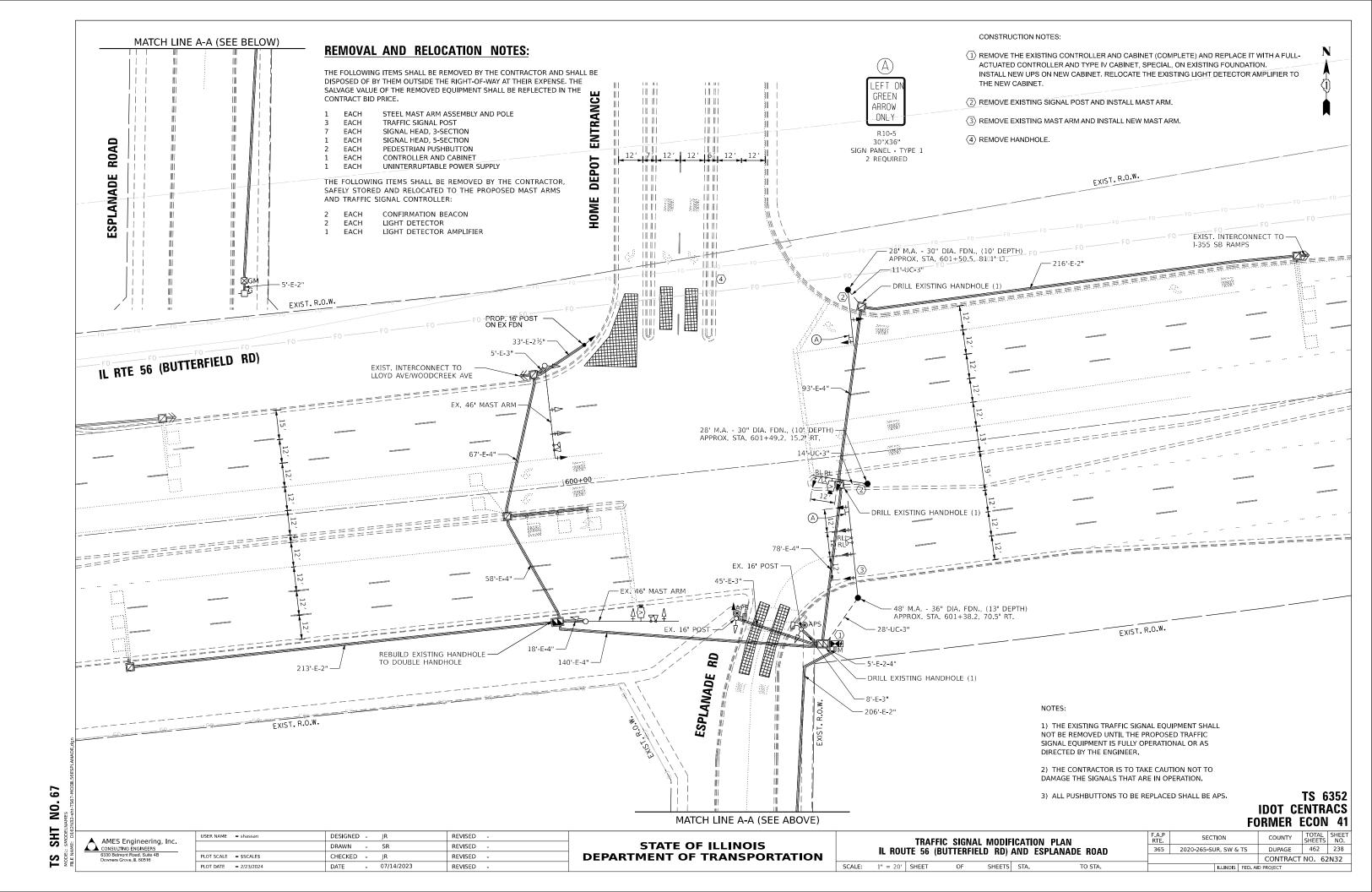
STATE OF ILLINOIS

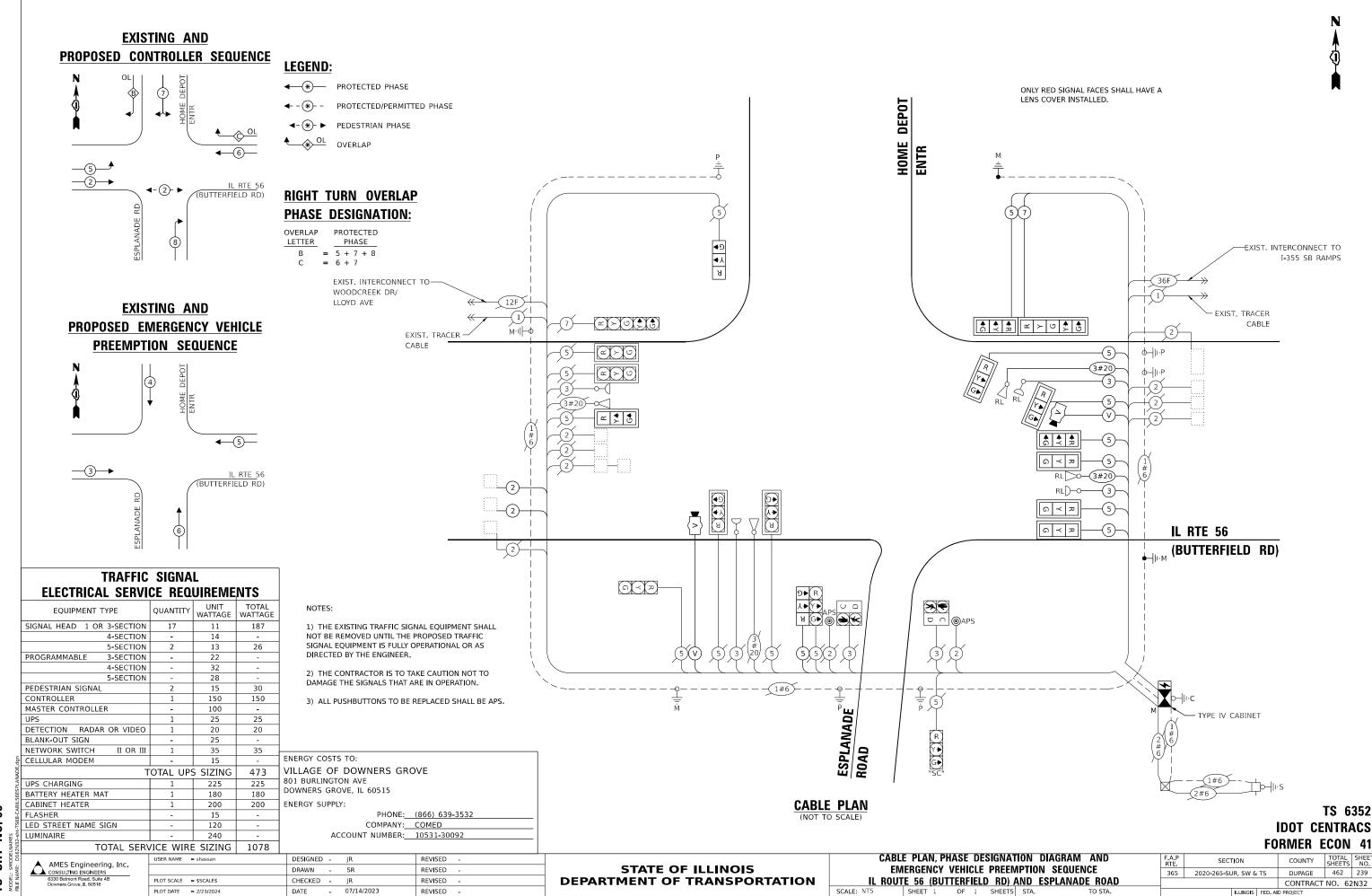
DEPARTMENT OF TRANSPORTATION

TS 13133 **DOWNERS GROVE IDOT CENTRACS** COUNTY

CONTRACT NO. 62N32

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SECTION EMERGENCY VEHICLE PREEMPTION SEQUENCE 365 2020-265-SUR, SW & TS DUPAGE 462 237 LACEY ROAD AND WOODCREEK AVENUE SCALE: NTS

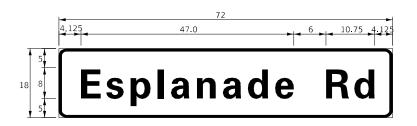




PLOT DATE = 2/23/2024

REVISED -

SIGN PANEL – TYPE 1 OR TYPE 2



| DESIGN | AREA | SIGN PANEL | SHEETING | QTY. |
|--------|---------|------------|----------|----------|
| SERIES | (SQ FT) | TYPE | TYPE | REQUIRED |
| D | 9.0 | 1 | ZZ | 2 |

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

SCHEDULE OF QUANTITIES

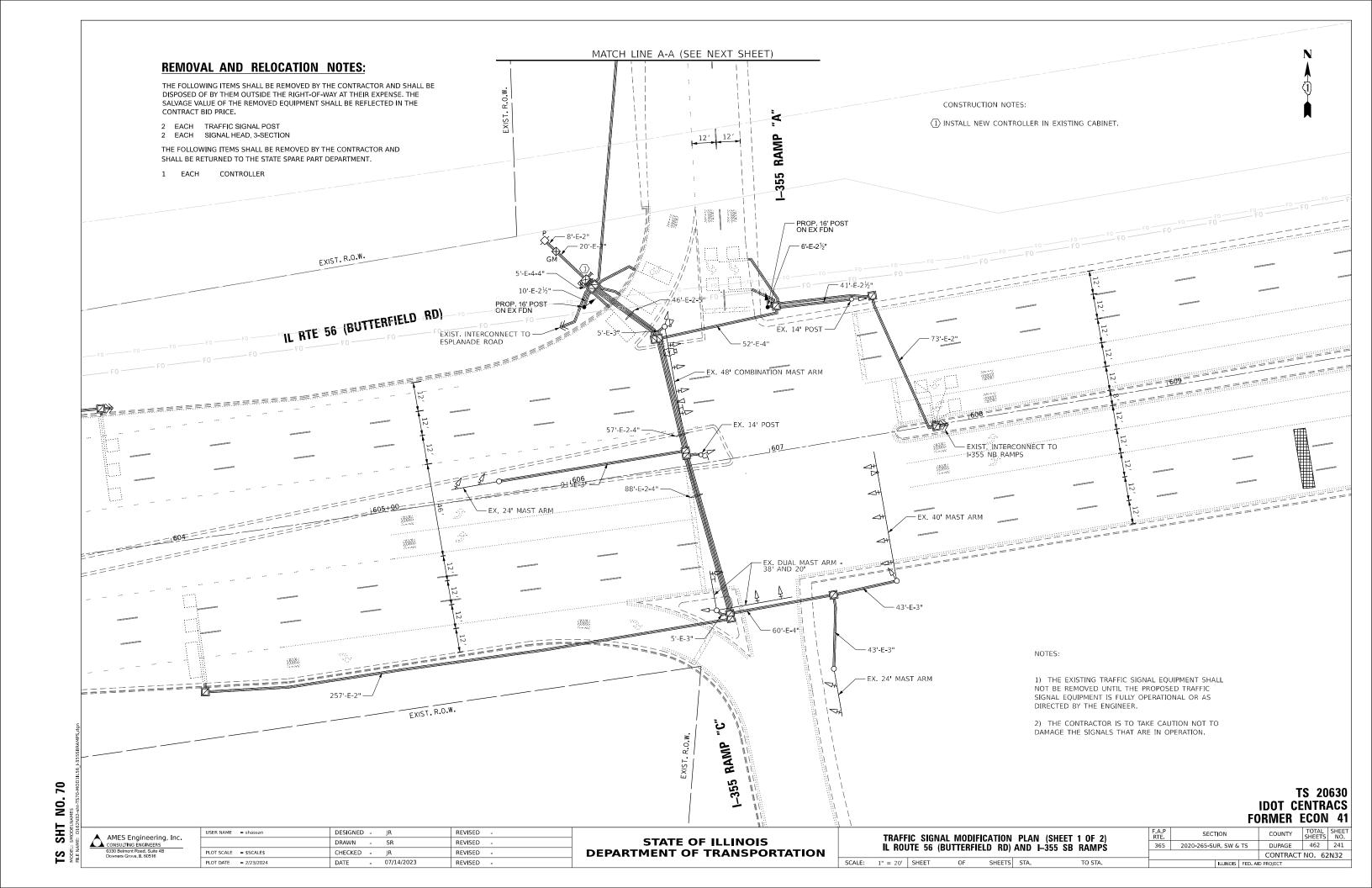
| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|--|-------|---------------|
| SIGN PANEL - TYPE 1 | SQ FT | 33 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 53 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 269 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 1299 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 255 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 788 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 341 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE, 28 FT. | EACH | 2 |
| STEEL MAST ARM ASSEMBLY AND POLE, 48 FT. | EACH | 1 |
| CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER | FOOT | 20 |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 13 |
| DRILL EXISTING HANDHOLE | EACH | 3 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 8 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 2 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 1 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 8 |
| INDUCTIVE LOOP DETECTOR | EACH | 10 |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT | EACH | 2 |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT | EACH | 1 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REMOVE EXISTING HANDHOLE | EACH | 1 |
| REMOVE EXISTING CONCRETE FOUNDATION | EACH | 4 |
| EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C | FOOT | 269 |
| LAYER II (DATA LINK) SWITCH | EACH | 1 |
| VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH | EACH | 1 |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL | EACH | 1 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 2 |
| LED SIGNAL FACE, LENS COVER | EACH | 19 |
| LED PEDESTRIAN SIGNAL MODULE REPLACEMENT | EACH | 2 |
| REBUILD EXISTING HANDHOLE TO DOUBLE HANDHOLE | EACH | 1 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER, 24 PORT | EACH | 1 |
| LED SIGNAL MODULE REPLACEMENT | EACH | 8 |

TS 6352 **IDOT CENTRACS** FORMER ECON 41

SHT

NO. 69

| USER NAME = shassan | DESIGNED - JR | REVISED - |
|------------------------|-------------------|-----------|
| | DRAWN - SR | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - JR | REVISED - |
| PLOT DATE = 2/23/2024 | DATE - 07/14/2023 | REVISED - |



AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 48
Downers Grove, IL 60516

USER NAME = shassan PLOT SCALE = \$SCALE\$ PLOT DATE = 2/23/2024

DESIGNED - JR REVISED DRAWN - SR REVISED -CHECKED - JR

DATE - 07/14/2023 REVISED -REVISED -

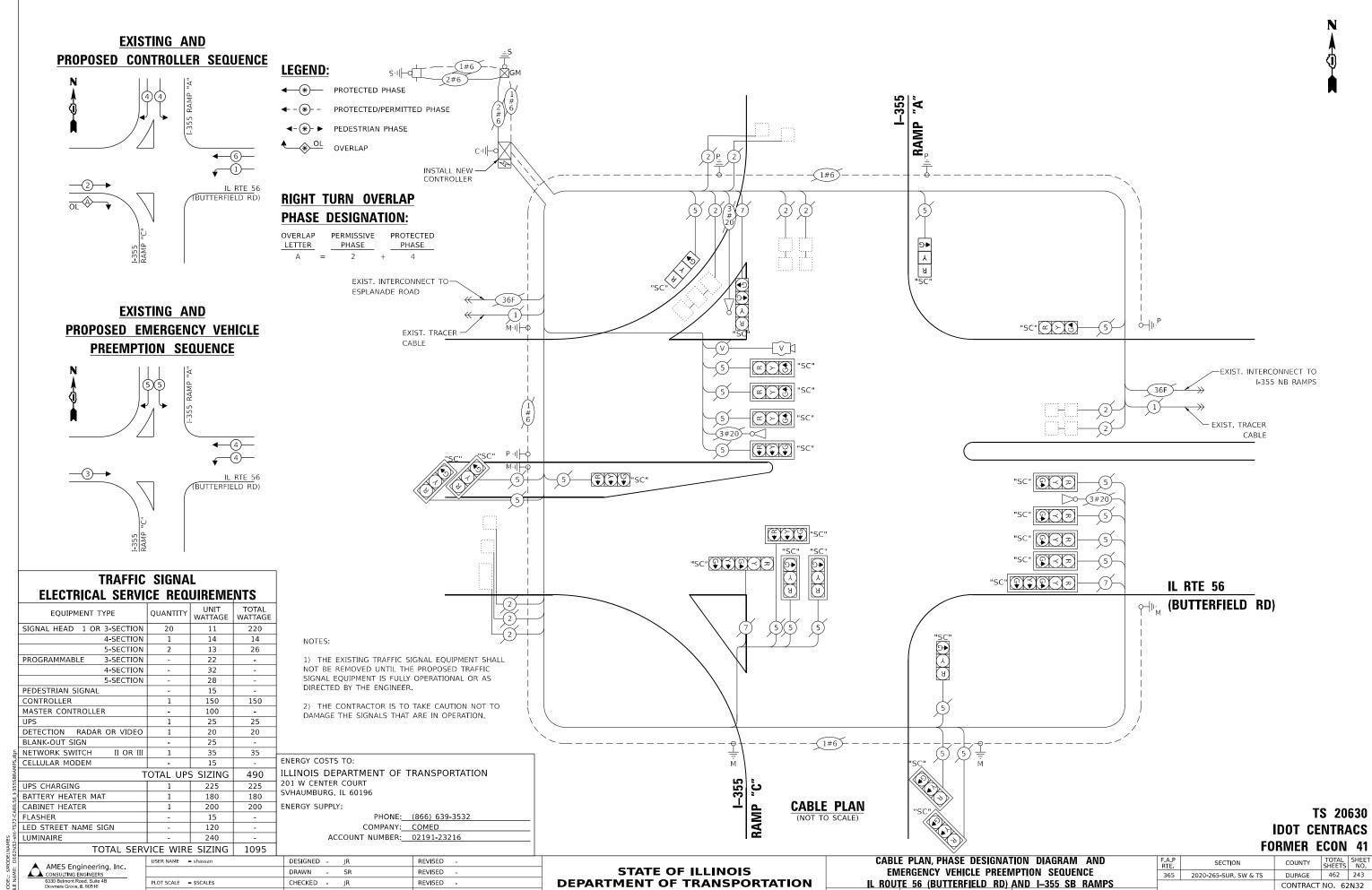
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

MATCH LINE A-A (SEE PREVIOUS SHEET)

TRAFFIC SIGNAL MODIFICATION PLAN (SHEET 2 OF 2) IL ROUTE 56 (BUTTERFIELD RD) AND 1-355 SB RAMPS SCALE: 1" = 20' SHEET OF SHEETS STA.

TS 20630 IDOT CENTRACS FORMER ECON 41 | F.A.P | SECTION | COUNTY | TOTAL SHEETS | NO. | 365 | 2020-265-SUR, SW & TS | DUPAGE | 462 | 242 | CONTRACT NO. 62N32

| | | 0 | - - - | | | | |
|----------------|-----------|---|------------------------------|------|--------|---------|----------------|
| I | | | | , | 1 | | |
| | | | | 1 | 1 | | |
| EXIST. K.O.W. | | | | 1 | | † | "A" |
| | | | | 4.00 | | | I–355 RAMP "A" |
| | 334'-E-2" | | | | i i | | I–35 |
| | | | | 12' | 12′ | | |
| | | | | 1 | | | |
| | | | | 1 | | | |



PLOT DATE = 2/23/2024

- 07/14/2023

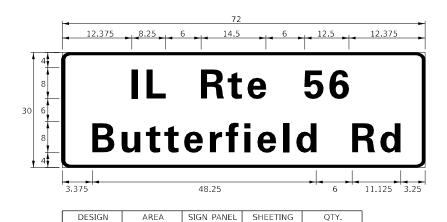
REVISED -

SIGN PANEL – TYPE 1 OR TYPE 2

SERIES

(SQ FT)

15.0



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

REQUIRED

ZZ

SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|---|-------|---------------|
| SIGN PANEL - TYPE 2 | SQ FT | 15 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 2 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 2 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| LAYER II (DATA LINK) SWITCH | EACH | 1 |
| FULL-ACTUATED CONTROLLER IN EXISTING CABINET | EACH | 1 |
| LED SIGNAL FACE, LENS COVER | EACH | 23 |
| REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER, 24 PORT | EACH | 1 |
| LED SIGNAL MODULE REPLACEMENT | EACH | 21 |

TS 20630 IDOT CENTRACS FORMER ECON 41

SHT NO. 73

WODER CHANGES

WODER CHA

 USER NAME
 = shassan
 DESIGNED
 JR
 REVISED

 DRAWN
 SR
 REVISED

 PLOT SCALE
 = SCALE\$
 CHECKED
 JR
 REVISED

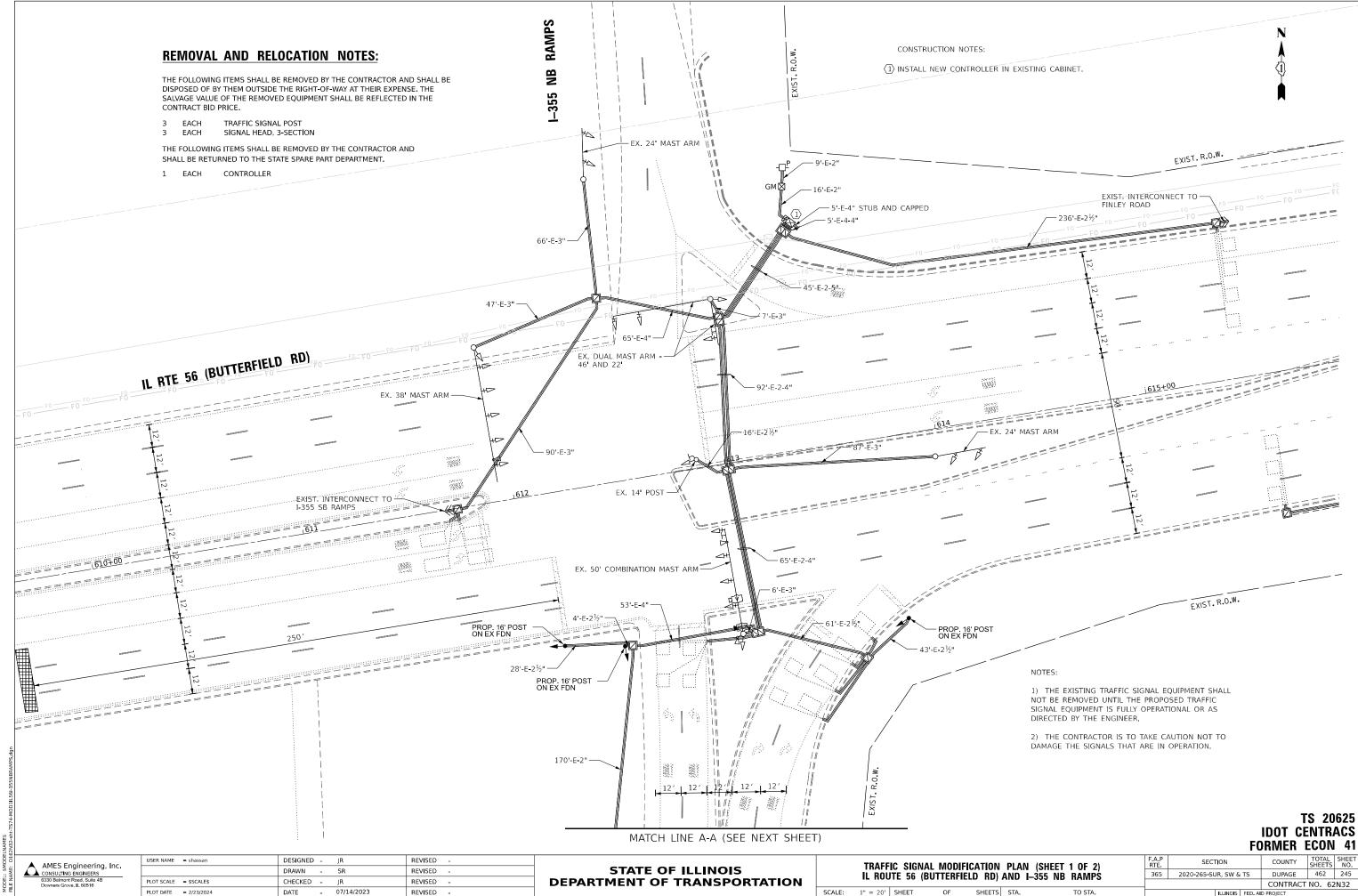
 PLOT DATE
 = 2/23/2024
 DATE
 07/14/2023
 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES

IL ROUTE 56 (BUTTERFIELD RD) AND I-355 SB RAMPS

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.



IS SHT NO.74

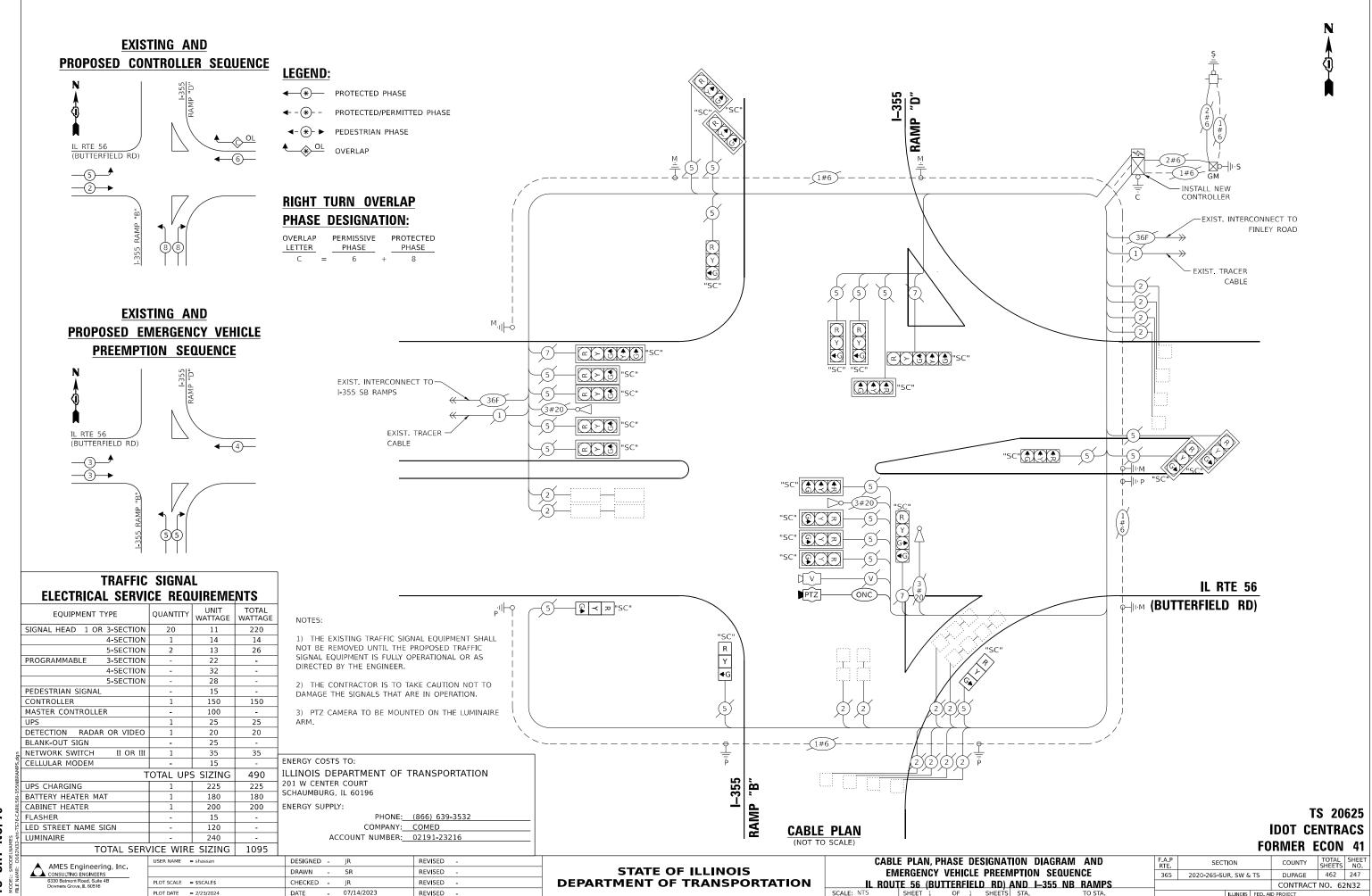
| USER NAME = shassan | DESIGNED | - | JR | REVISED | - |
|------------------------|----------|---|------------|---------|---|
| | DRAWN | - | SR | REVISED | - |
| PLOT SCALE = \$SCALE\$ | CHECKED | - | JR | REVISED | - |
| PLOT DATE = 2/23/2024 | DATE | - | 07/14/2023 | REVISED | - |
| | | | | | |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SIGNAL MODIFICATION PLAN (SHEET 2 OF 2) IL ROUTE 56 (BUTTERFIELD RD) AND 1–355 NB RAMPS

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

TS 20625 IDOT CENTRACS

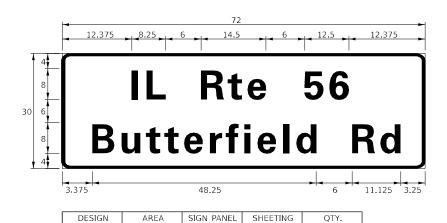
MATCH LINE A-A (SEE PREVIOUS SHEET) I-355 RAMP "B" 175'-E**-**2" —



SIGN PANEL – TYPE 1 OR TYPE 2

(SQ FT)

15.0



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

REQUIRED

ZZ

SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|---|-------|---------------|
| SIGN PANEL - TYPE 2 | SQ FT | 15 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 3 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 3 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| OUTDOOR RATED NETWORK CABLE | FOOT | 312 |
| REMOTE CONTROLLED VIDEO SYSTEM | EACH | 1 |
| LAYER II (DATA LINK) SWITCH | EACH | 1 |
| FULL-ACTUATED CONTROLLER IN EXISTING CABINET | EACH | 1 |
| LED SIGNAL FACE, LENS COVER | EACH | 21 |
| POWER OVER ETHERNET EXTENDER | EACH | 1 |
| REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER, 24 PORT | EACH | 1 |
| LED SIGNAL MODULE REPLACEMENT | EACH | 20 |

TS 20625 IDOT CENTRACS FORMER ECON 41

AMES Engineering, Inc. CONSULTING ENGINEERS ES30 Belmont Read. Suite 48 Downers Growth Road.

 USER NAME
 = shassan
 DESIGNED
 JR
 REVISED

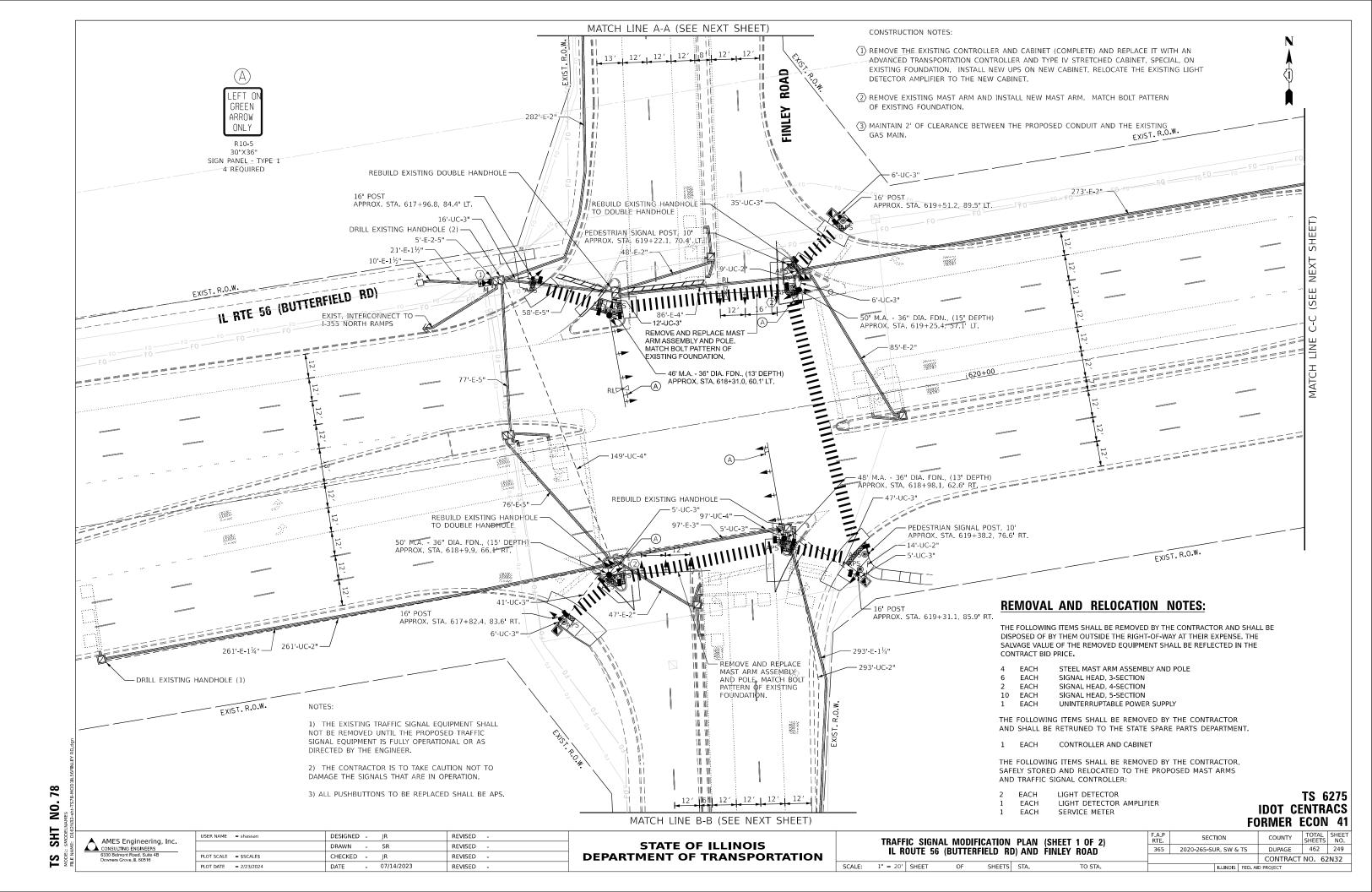
 DRAWN
 SR
 REVISED

 PLOT SCALE
 = \$SCALE\$
 CHECKED
 JR
 REVISED

 PLOT DATE
 = 2/23/2024
 DATE
 07/14/2023
 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

| | MAST | ARM | M | DUNT | ED | STREET | T NA | ME S | SIGNS | AND | |
|---|------------------------|-------|------|------|-----|---------|------|------|-------|--------------|--|
| | SCHEDULE OF QUANTITIES | | | | | | | | | | |
| L | ROUT | E 56 | (BUT | TERF | ELI | D RD) A | ND | I-35 | 5 NB | RAMPS | |
| ; | | SHEET | 1 | OF | 1 | SHEETS | STA. | | | TO STA. | |



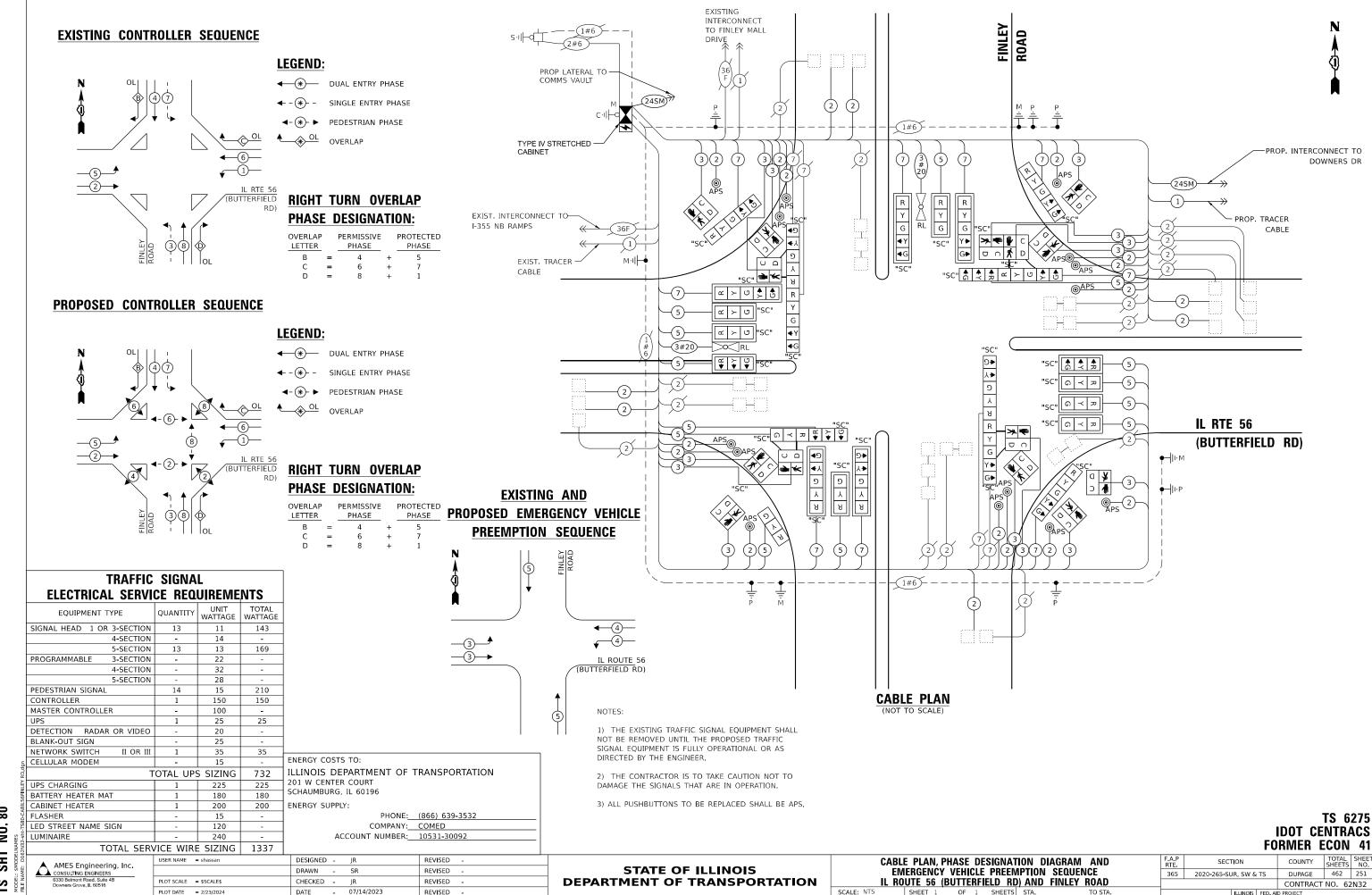
NO. 79 SHT

PLOT SCALE = \$SCALE\$ CHECKED - JR REVISED -PLOT DATE = 2/23/2024 _ 07/14/2023 REVISED -DATE

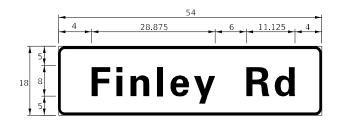
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN (SHEET 2 OF 2) IL ROUTE 56 (BUTTERFIELD RD) AND FINLEY ROAD SCALE: 1" = 20' SHEET SHEETS STA.

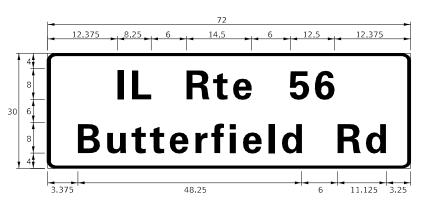
CONTRACT NO. 62N32



SIGN PANEL - TYPE 1 OR TYPE 2



| DESIGN | AREA | SIGN PANEL | SHEETING | QTY. |
|--------|---------|------------|----------|----------|
| SERIES | (SQ FT) | TYPE | TYPE | REQUIRED |
| D | 6.75 | 1 | ZZ | |



| DESIGN | AREA | SIGN PANEL | SHEETING | QTY. |
|--------|---------|------------|----------|----------|
| 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 DESCRIPTION | UNITS | TOTAL QTY. |
|---|--------|---------------|
| SIGN PANEL - TYPE 1 | SQ FT | 43.5 |
| SIGN PANEL - TYPE 2 | SQ FT | 30 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 577 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 184 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 246 |
| HANDHOLE | EACH | 3 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 3071 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 3197 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 3221 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 1996 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 2741 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 1077 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 4 |
| STEEL MAST ARM ASSEMBLY AND POLE, 46 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE, 48 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE. 50 FT. | EACH | 2 |
| CONCRETE FOUNDATION. TYPE A | FOOT | 16 |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 56 |
| DRILL EXISTING HANDHOLE | EACH | 4 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 9 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 4 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 8 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 5 |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED | 27,011 | |
| WITH COUNTDOWN TIMER | EACH | 14 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 14 |
| INDUCTIVE LOOP DETECTOR | EACH | 22 |
| RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT | EACH | 2 |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT | EACH | 1 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REBUILD EXISTING HANDHOLE | EACH | 1 |
| REMOVE EXISTING CONCRETE FOUNDATION | EACH | 5 |
| EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C | FOOT | 427 |
| <u>, </u> | EACH | 2 |
| PEDESTRIAN SIGNAL POST, 10 FT. | | 1 |
| LAYER III (NETWORK) SWITCH | EACH | |
| REBUILD EXISTING DOUBLE HANDHOLE | EACH | 1 |
| ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV STRETCHED CABINET, SPECIAL | EACH | 1 |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL | EACH | 11 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 14 |
| CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER | FOOT | 8 |
| LED SIGNAL FACE, LENS COVER | EACH | 26 |
| REBUILD EXISTING HANDHOLE TO DOUBLE HANDHOLE | EACH | 2 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER, 48 PORT | EACH | 1 |

TS 6275 IDOT CENTRACS FORMER ECON 41

AMES Engineering, Inc

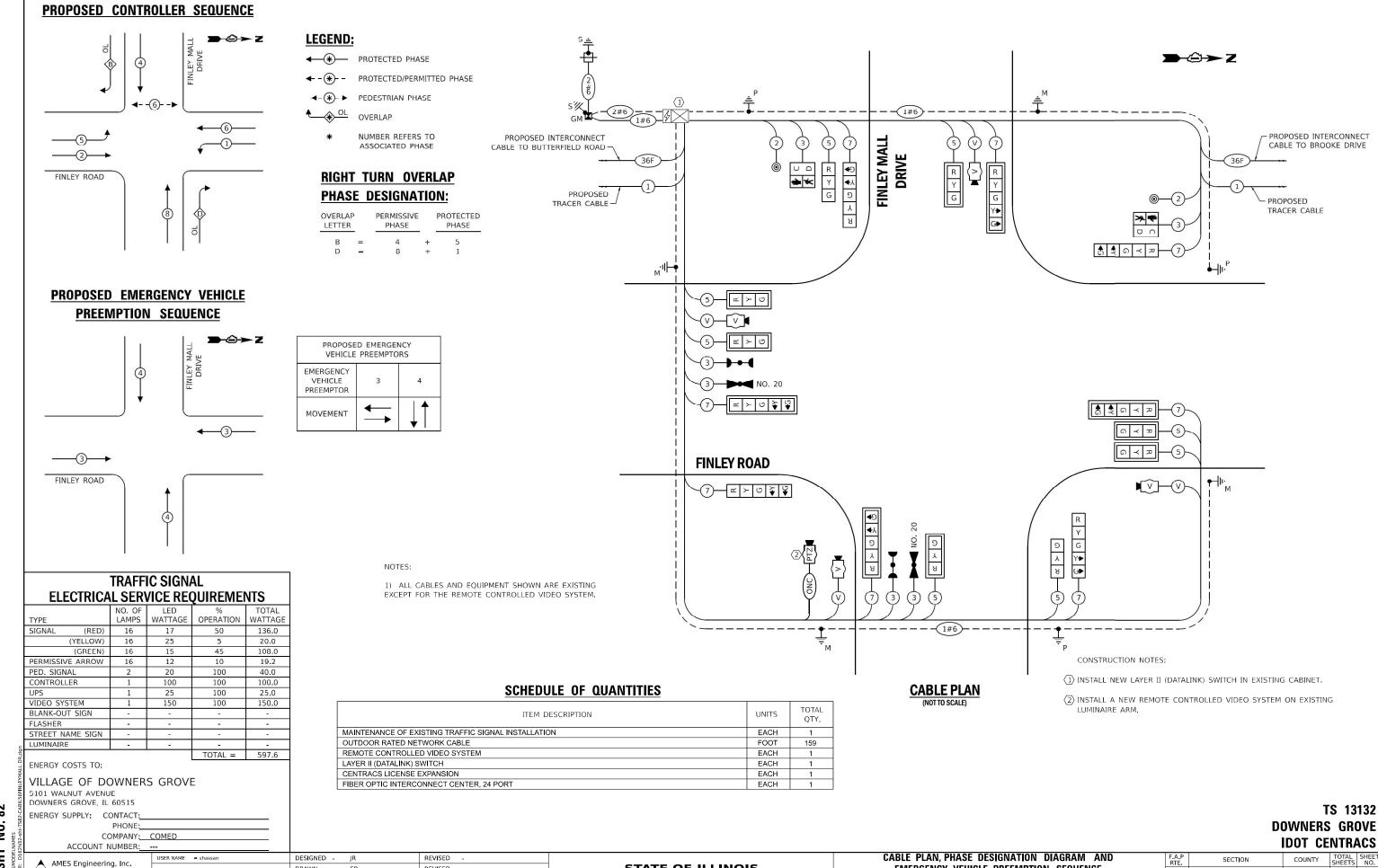
CONSULTING ENGINEERS
6330 Belmont Ros 6054 54

Downers Grove 1, 6054 54

Downers Grove 1, 6054 54

NO. 81

| USER NAME = shassan | DESIGNED - JR | REVISED - |
|------------------------|-------------------|-----------|
| | DRAWN - SR | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - JR | REVISED - |
| PLOT DATE = 2/23/2024 | DATE - 07/14/2023 | REVISED - |



<u>.</u> SHT

DRAWN -

DATE

PLOT DATE = 2/23/2024

SR

_ 07/14/2023

REVISED

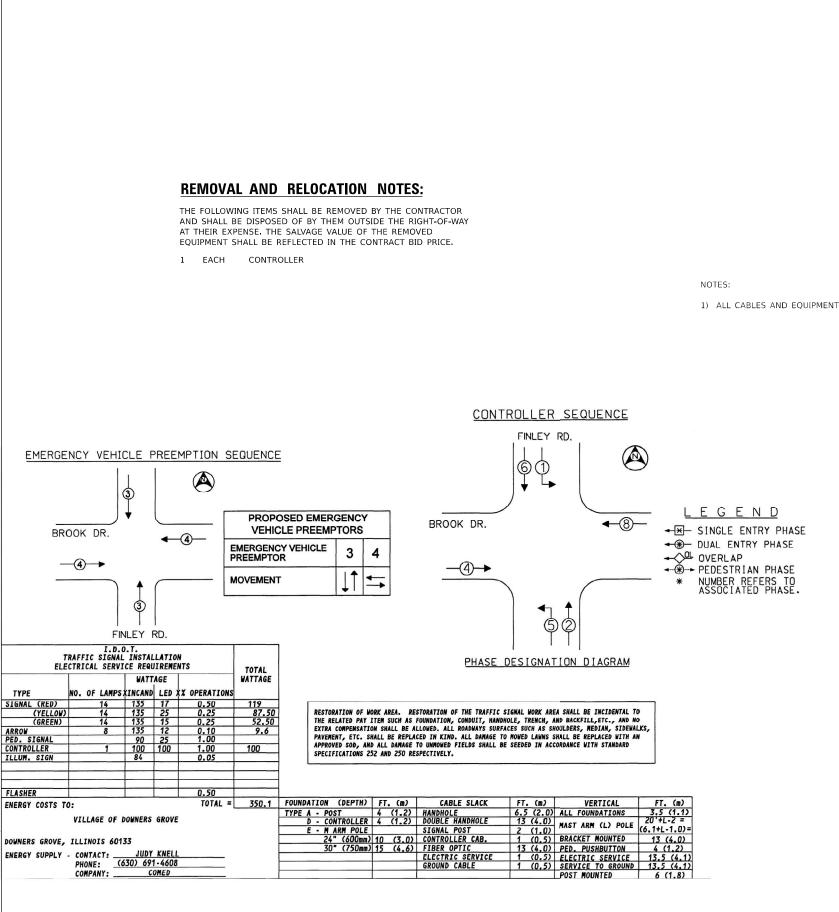
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REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND **EMERGENCY VEHICLE PREEMPTION SEQUENCE** FINLEY ROAD AND MALL DRIVE SCALE: NTS

SECTION COUNTY 365 2020-265-SUR, SW & TS DUPAGE 462 253 CONTRACT NO. 62N32



1) ALL CABLES AND EQUIPMENT SHOWN ARE EXISTING.

CONSTRUCTION NOTES:

INTERCONNECT TO ACCESS DRIVE CONTROLLER.

SCALE: NTS

1 INSTALL NEW CONTROLLER IN EXISTING CABINET.

3 <u>F</u>

2 INSTALL NEW LAYER II (DATALINK) SWITCH IN EXISTING CABINET.

TRACER CABLE NO. 14 1/C

THE END OF THE TRACER CABLE SHALL BE CONTINUOS AND EXTEND INTO CONTROLLER CABINET.

SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|---|-------|---------------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| LAYER II (DATALINK) SWITCH | EACH | 1 |
| FULL-ACTUATED CONTROLLER IN EXISTING CABINET, SPECIAL | EACH | 1 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER, 24 PORT | EACH | 1 |

TS 13131 **DOWNERS GROVE IDOT CENTRACS**

COUNTY

CONTRACT NO. 83759

TO STA.

02-0009I-00-T DUPAGE

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-8

BROOK DR.

FED. ROAD DIST. NO. I ILLINOIS FED. AID PROJECT

CABLE PLAN

FINLEY RD.

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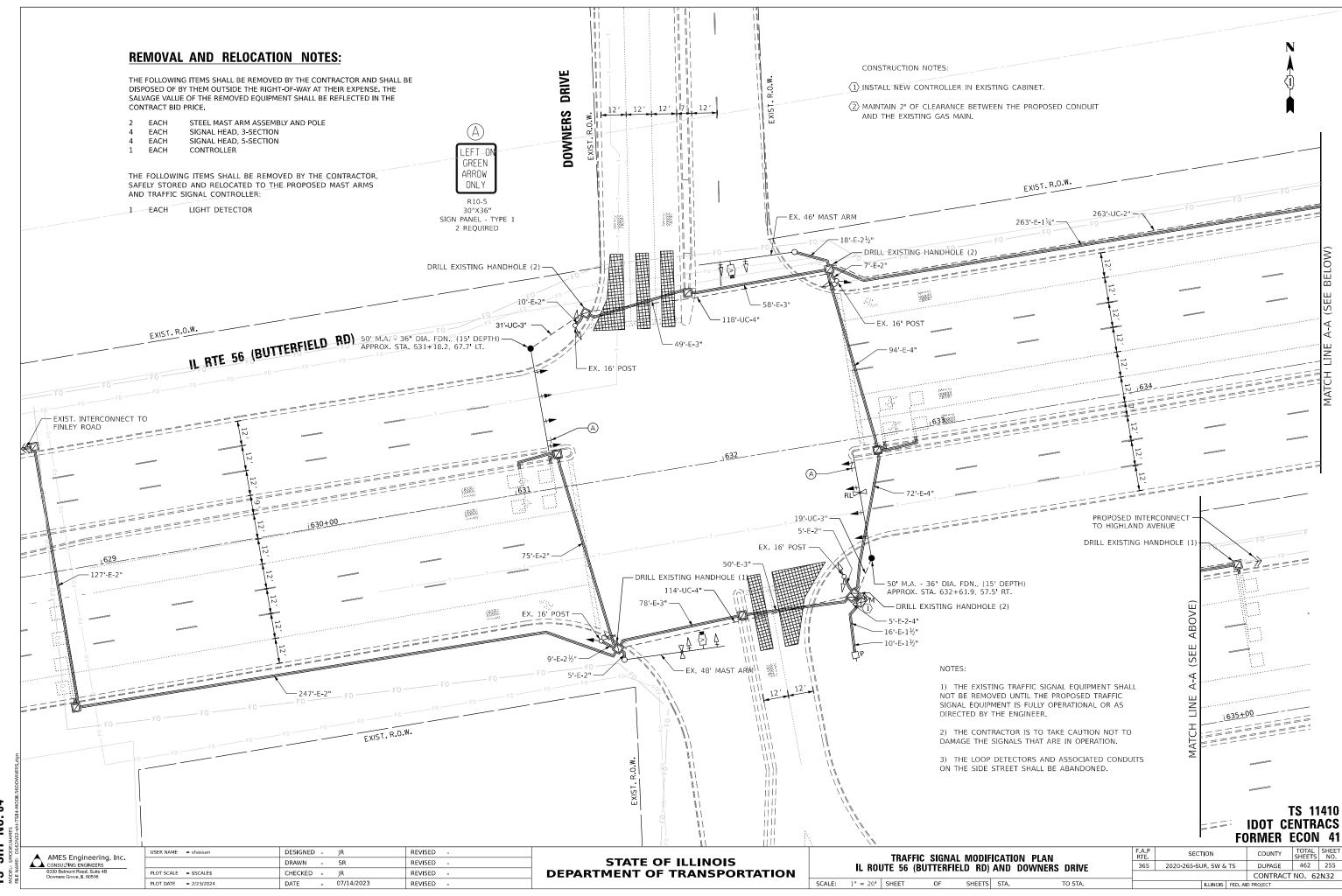
AMES Engineering, Inc.

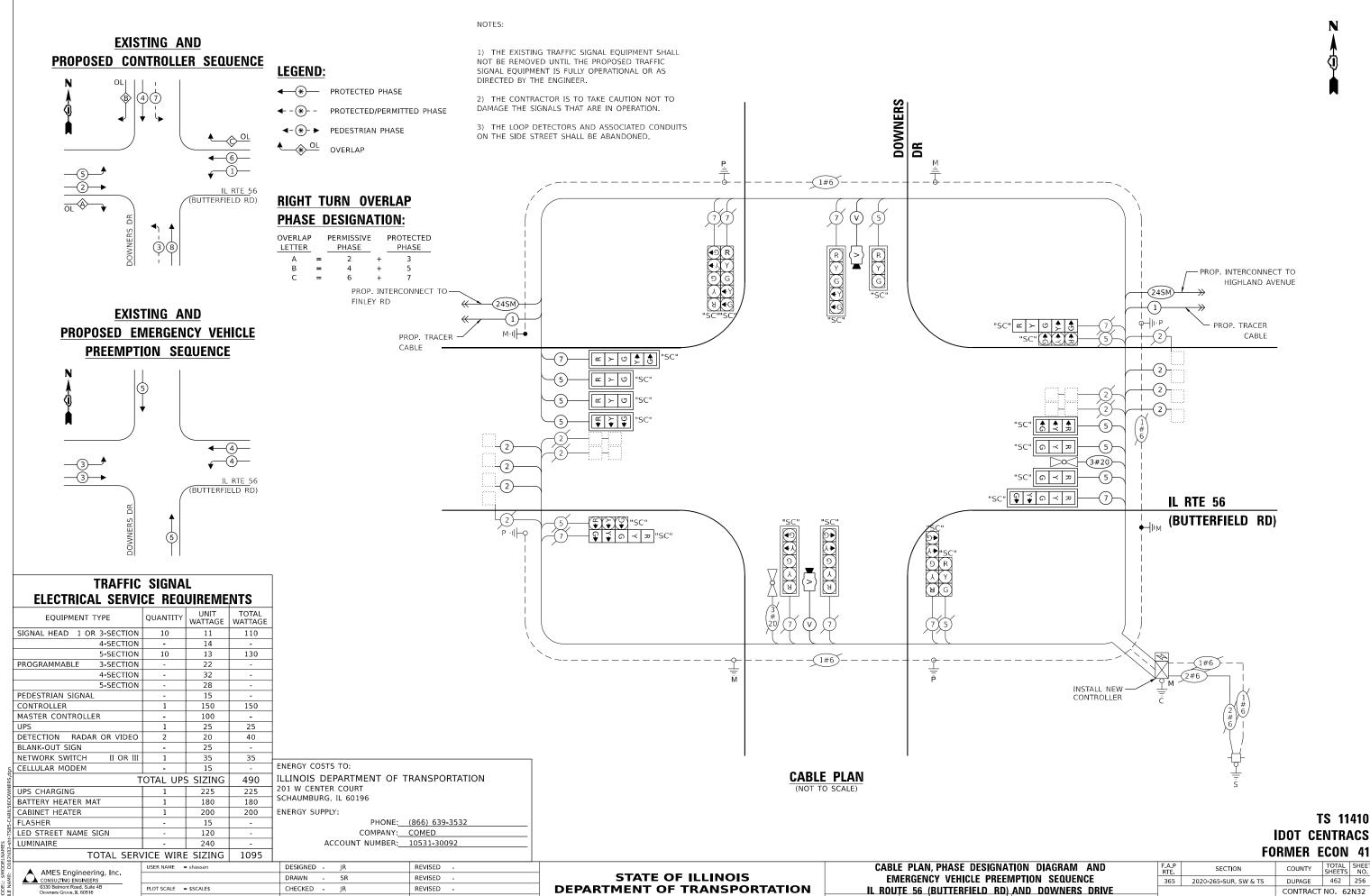
DESIGNED -REVISED USER NAME = shassan DRAWN SR REVISED REVISED - 07/14/2023 PLOT DATE = 2/23/2024 REVISED -DATE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION CABLE PLAN, PHASE DESIGNATION DIAGRAM AND **EMERGENCY VEHICLE PREEMPTION SEQUENCE** FINLEY ROAD AND BROOK DRIVE OF 1 SHEETS STA.

SECTION COUNTY 365 2020-265-SUR, SW & TS DUPAGE 462 254 CONTRACT NO. 62N32

NO. 83 SHT



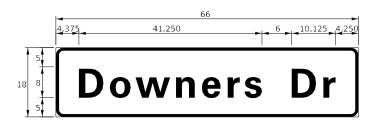


_ 07/14/2023

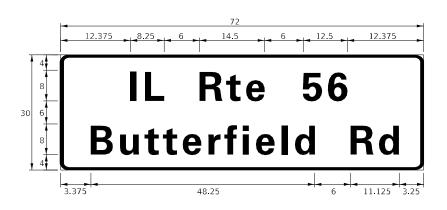
REVISED -

PLOT DATE = 2/23/2024

SIGN PANEL - TYPE 1 OR TYPE 2



| DESIGN | AREA | SIGN PANEL | SHEETING | QTY. |
|--------|---------|------------|----------|----------|
| SERIES | (SQ FT) | TYPE | TYPE | REQUIRED |
| D | 8.25 | 1 | ZZ | 2 |



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

SIGN PANEL

TYPE

DESIGN

SERIES

AREA

(SQ FT)

QTY.

REQUIRED

SHEETING

TYPE ZZ

SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|---|-------|---------------|
| SIGN PANEL - TYPE 1 | SQ FT | 31.5 |
| SIGN PANEL - TYPE 2 | SQ FT | 30 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 263 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 50 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 232 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 1511 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 461 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 2658 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 349 |
| STEEL MAST ARM ASSEMBLY AND POLE, 50 FT. | EACH | 2 |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 30 |
| DRILL EXISTING HANDHOLE | EACH | 7 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 6 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 2 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 2 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 8 |
| INDUCTIVE LOOP DETECTOR | EACH | 1 |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT | EACH | 1 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REMOVE EXISTING CONCRETE FOUNDATION | EACH | 2 |
| EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C | FOOT | 96 |
| LAYER II (DATA LINK) SWITCH | EACH | 1 |
| VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH | EACH | 2 |
| FULL-ACTUATED CONTROLLER IN EXISTING CABINET | EACH | 1 |
| LED SIGNAL FACE, LENS COVER | EACH | 20 |
| REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER, 24 PORT | EACH | 1 |
| LED SIGNAL MODULE REPLACEMENT | EACH | 10 |

TS 11410 IDOT CENTRACS FORMER ECON 41

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 48
6330 Belmont Road, Suite 48
6330 Belmont Road, Suite 48

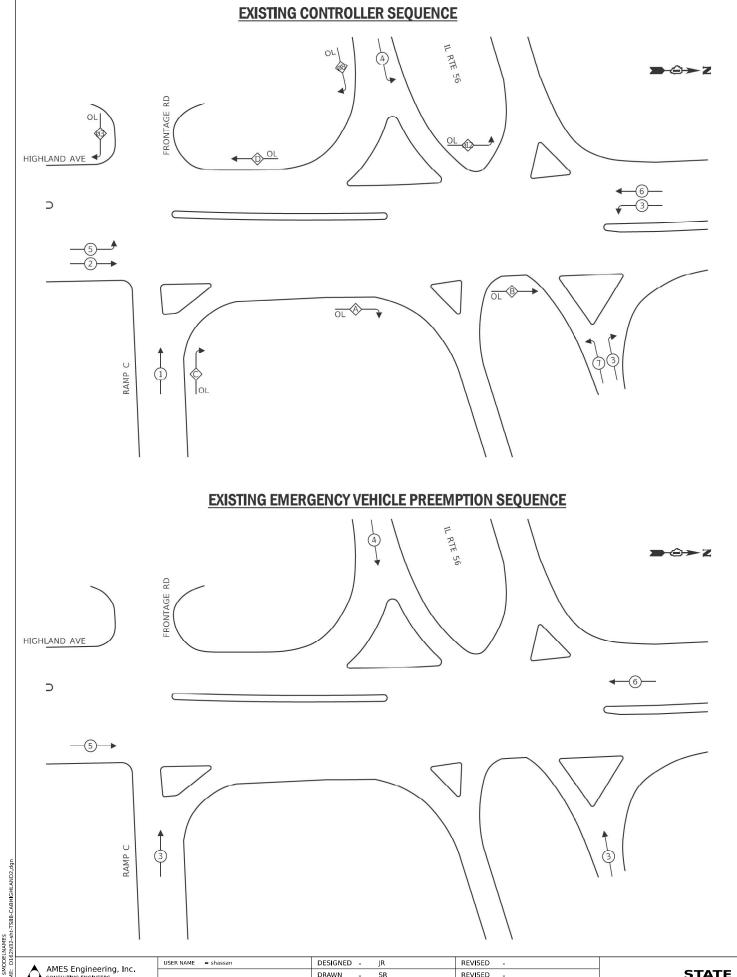
NO. 86

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES

IL ROUTE 56 (BUTTERFIELD RD) AND DOWNERS DRIVE

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.



LEGEND:

◆ PROTECTED PHASE

← - ** - PROTECTED/PERMITTED PHASE

◆- *- PEDESTRIAN PHASE

OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

| OL A | _ | 1 | + | 2 | + | 4 | + | 5 |
|-------|---|---|---|---|---|----|---|---|
| OL B | = | 1 | + | 2 | + | 5 | | |
| OL C | = | 1 | + | 4 | - | 1G | | |
| OL D | = | 2 | + | 4 | | | | |
| OL ø3 | = | 3 | | | | | | |
| OL ø8 | _ | 1 | 1 | 3 | 1 | 5 | 1 | 8 |
| OL ØD | = | 1 | + | 5 | | | | |

LED STREET NAME SIGN

| TRAFFIC ELECTRICAL SERVI | | | NTS |
|-----------------------------|----------|-----------------|------------------|
| EQUIPMENT TYPE | QUANTITY | UNIT WATTAGE | TOTAL WATTAGE |
| SIGNAL HEAD 1 OR 3-SECTION | 22 | 11 | 242 |
| 4-SECTION | 1 | 14 | 14 |
| 5-SECTION | 2 | 13 | 26 |
| PROGRAMMABLE 3-SECTION | 16 | 22 | 352 |
| 4-SECTION | - | 32 | - |
| 5-SECTION | - | 28 | - |
| PEDESTRIAN SIGNAL | 6 | 15 | 90 |
| CONTROLLER | 1 | 150 | 150 |
| MASTER CONTROLLER | - | 100 | - |
| UPS | 1 | 25 | 25 |
| DETECTION RADAR OR VIDEO | - | 20 | 20 |
| BLANK-OUT SIGN | - | 25 | - |
| NETWORK SWITCH II OR III | 1 | 35 | 35 |
| CELLULAR MODEM | - | 15 | - |
| Т | OTAL UPS | S SIZING | 954 |
| UPS CHARGING | 1 | 225 | 225 |
| BATTERY HEATER MAT | 1 | 180 | 180 |
| CABINET HEATER | 1 | 200 | 200 |
| FLASHER | - | 15 | - |

TOTAL SERVICE WIRE SIZING

240

ENERGY COSTS TO: VILLAGE OF LOMBARD 255 E. WILSON AVE LOMBARD, IL 60148-3926

ENERGY SUPPLY:

PHONE: (866) 639-3532 COMPANY: COMED ACCOUNT NUMBER: 11831-41069 & 05462-35009

TS 6280 **IDOT CENTRACS AND DUPAGE CENTRACS**

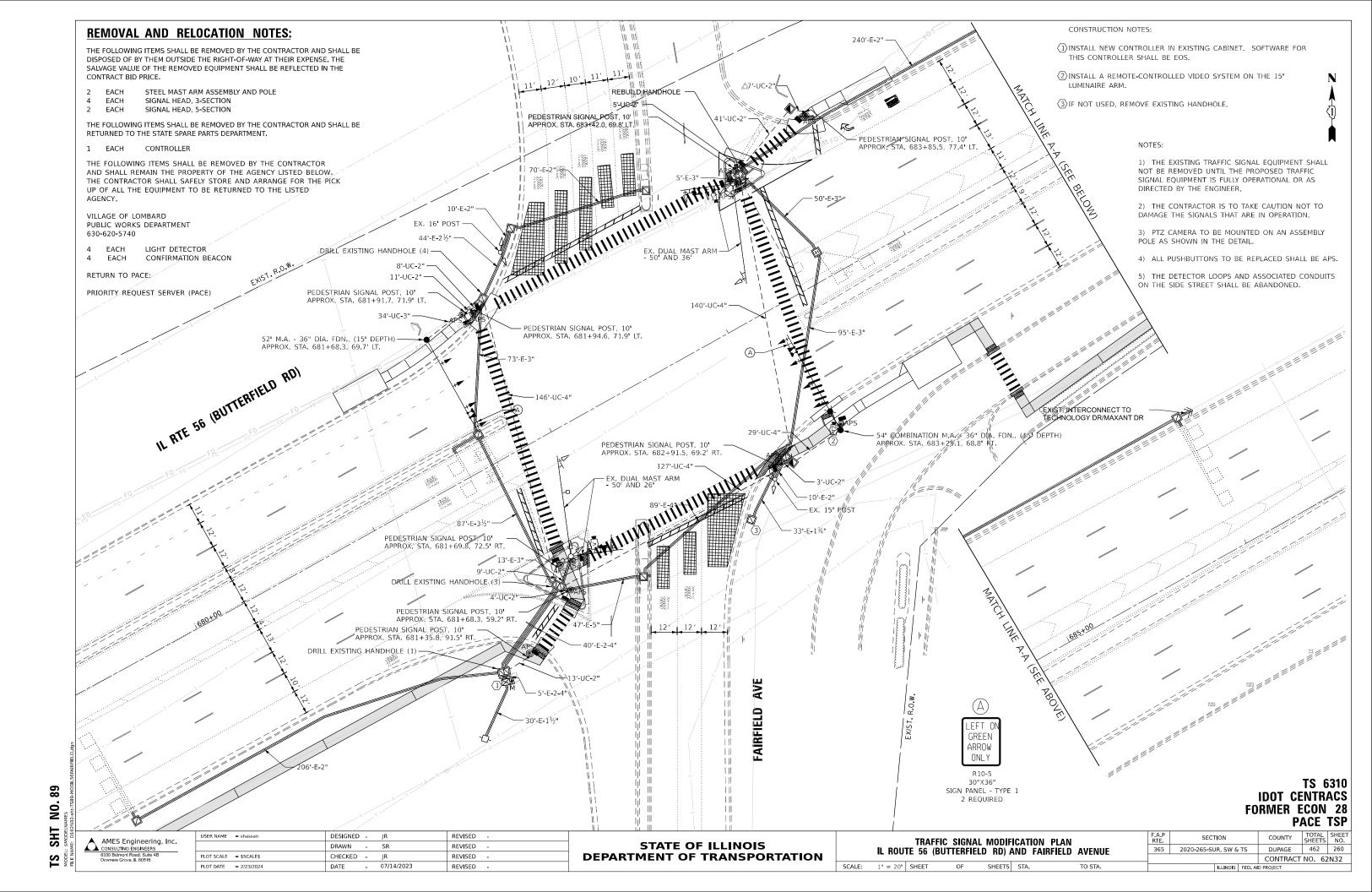
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 4 IL ROUTE 56 (BUTTERFIELD ROAD) AND HIGHLAND AVE

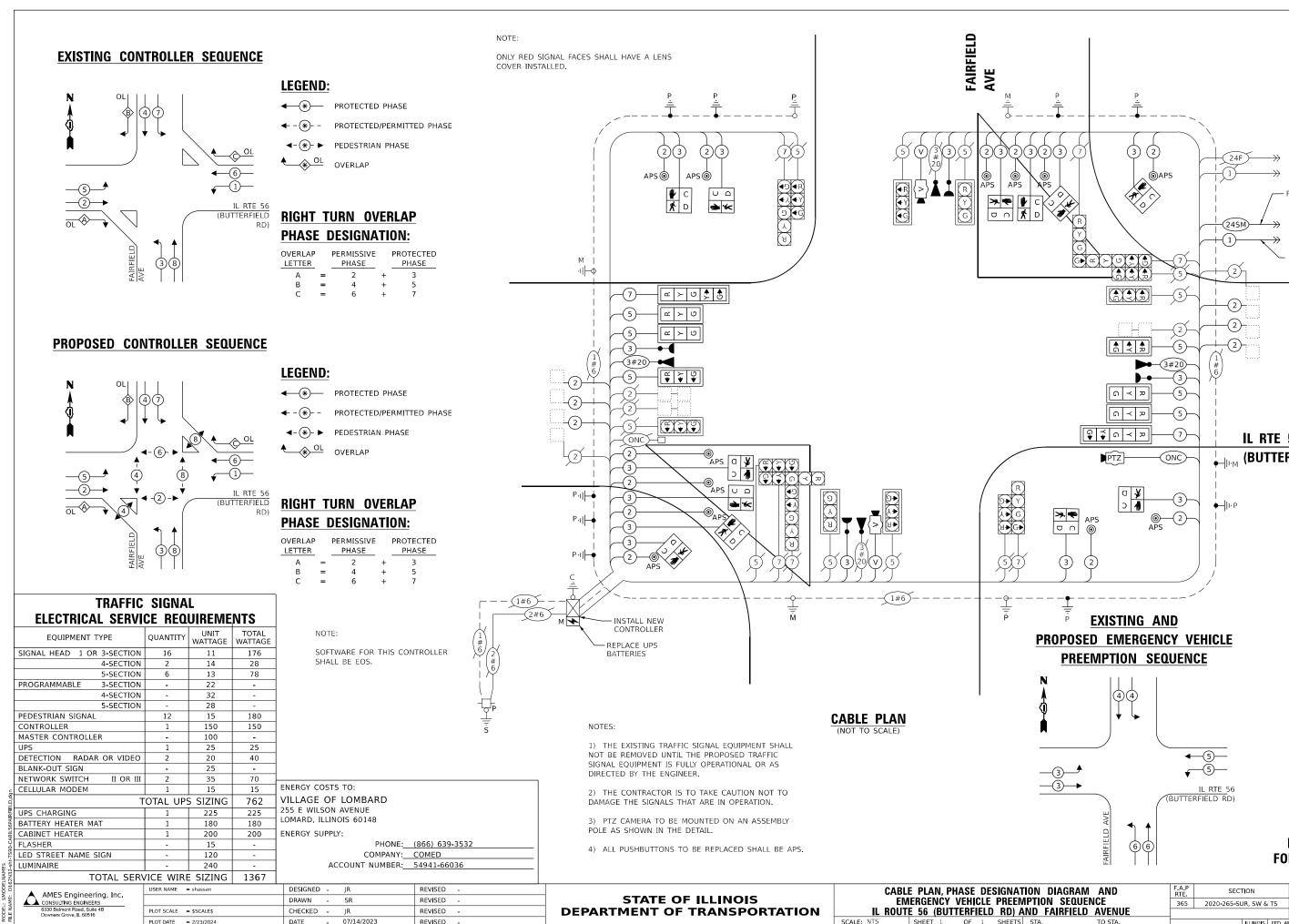
| A P TE | SECT | TION | | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|-----------------------|----------|----------|-----------|-----------------|--------------|
| 365 | 2020-265-SUR, SW & TS | | | DUPAGE | 462 | 259 |
| | | | CONTRACT | NO. 62 | N32 | |
| | | ILLINOIS | FED. Al | D PROJECT | | |

NO. 88 SHT

DRAWN - SR REVISED -PLOT DATE = 2/23/2024 _ 07/14/2023 DATE REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





PROP. INTERCONNECT TO TECHNOLOGY DR/

PROP. TRACER

IL RTE 56

(BUTTERFIELD RD)

CABLE

MAXANT DR

TS 6310

PACE TSP

IDOT CENTRACS

DUPAGE 462 261

CONTRACT NO. 62N32

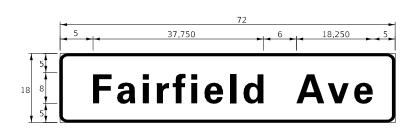
FORMER ECON 28

COUNTY

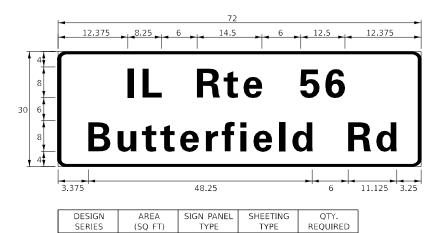
SECTION

EXISTING AND PROPOSED TRANSIT SIGNAL PRIORITY PREEMPTION SEQUENCE

SIGN PANEL - TYPE 1 OR TYPE 2



| DESIGN | AREA | SIGN PANEL | SHEETING | QTY. |
|--------|---------|------------|----------|----------|
| SERIES | (SQ FT) | TYPE | TYPE | REQUIRED |
| D | 9 | 2 | ZZ | |



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

TYPE

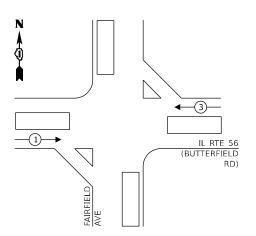
TYPE

ZZ

SERIES

(SQ FT)

15.0



SCHEDULE OF QUANTITIES

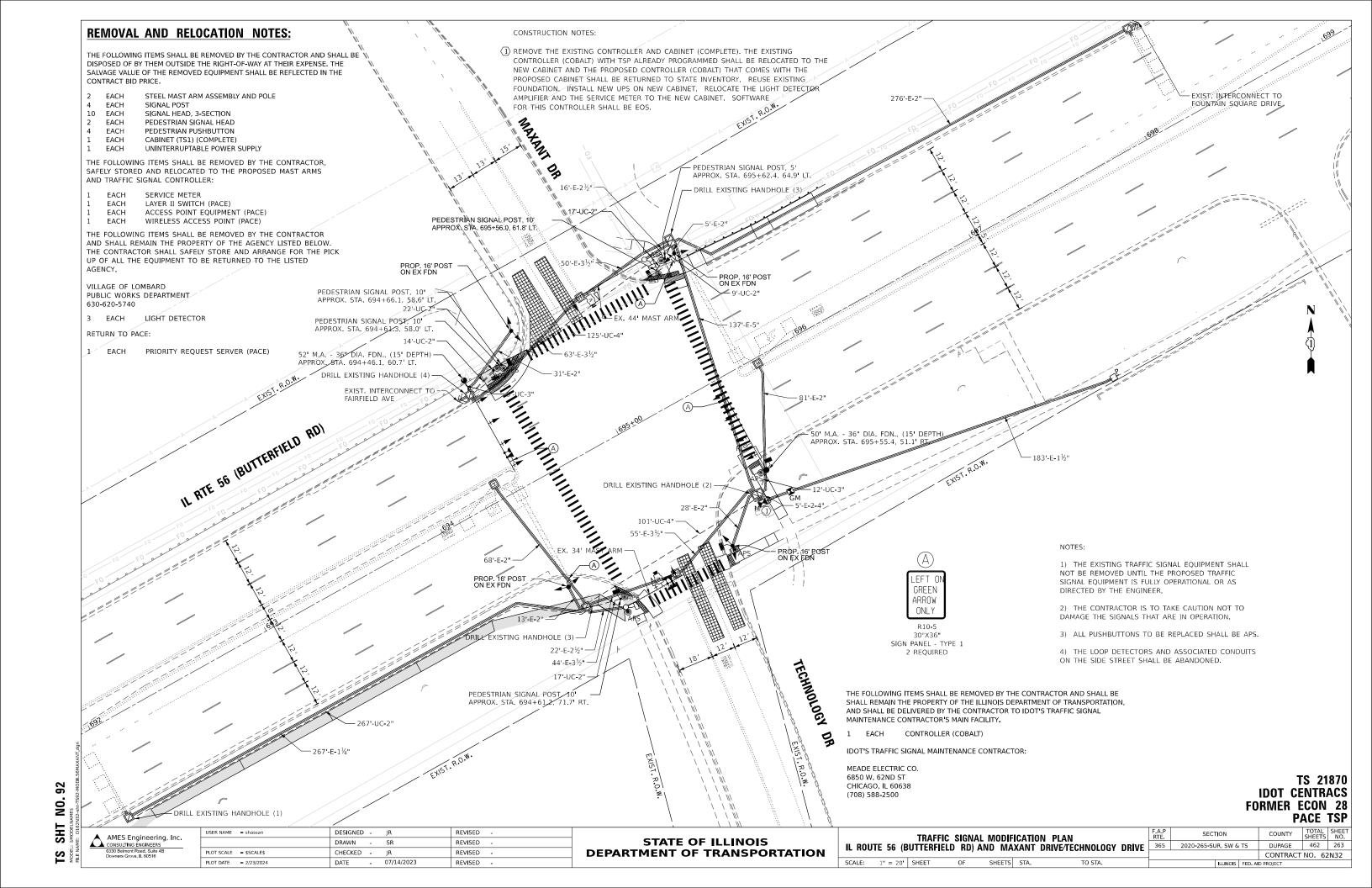
| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|---|-------|---------------|
| SIGN PANEL - TYPE 1 | SQ FT | 15 |
| SIGN PANEL - TYPE 2 | SQ FT | 48 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 101 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 34 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 442 |
| HANDHOLE | EACH | 2 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 2904 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 4165 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 1947 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 601 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 2559 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 1919 |
| STEEL MAST ARM ASSEMBLY AND POLE, 52 FT. | EACH | 1 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT. | EACH | 1 |
| CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER | FOOT | 30 |
| DRILL EXISTING HANDHOLE | EACH | 8 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 6 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 2 |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED | | |
| WITH COUNTDOWN TIMER | EACH | 12 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 8 |
| INDUCTIVE LOOP DETECTOR | EACH | 6 |
| LIGHT DETECTOR | EACH | 4 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REBUILD EXISTING HANDHOLE | EACH | 1 |
| REMOVE EXISTING HANDHOLE | EACH | 1 |
| REMOVE EXISTING CONCRETE FOUNDATION | FOOT | 2 |
| EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C | FOOT | 663 |
| OUTDOOR RATED NETWORK CABLE | EACH | 288 |
| REMOTE CONTROLLED VIDEO SYSTEM | EACH | 1 |
| LAYER II (DATA LINK) SWITCH | EACH | 1 |
| PEDESTRIAN SIGNAL POST, 10' | EACH | 8 |
| VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH | EACH | 2 |
| FULL-ACTUATED CONTROLLER IN EXISTING CABINET | EACH | 1 |
| ACCESSIBLE PEDESTRIAN SIGNALS | FOOT | 12 |
| CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER | EACH | 32 |
| LED SIGNAL FACE, LENS COVER | EACH | 24 |
| REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER, 24 PORT | EACH | 1 |
| LED SIGNAL MODULE REPLACEMENT | EACH | 16 |

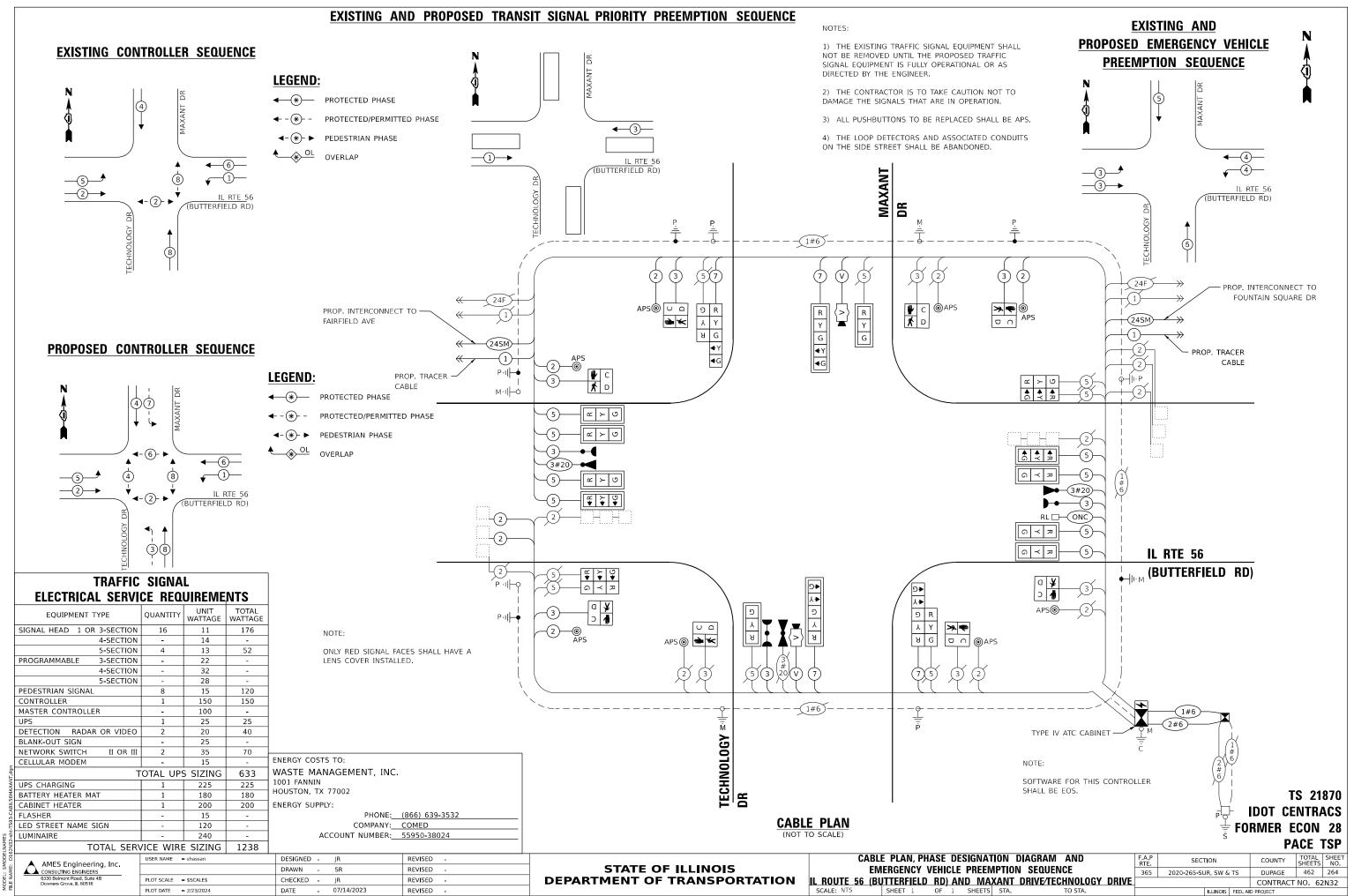
TS 6310 **IDOT CENTRACS FORMER ECON 28**

CONTRACT NO. 62N32

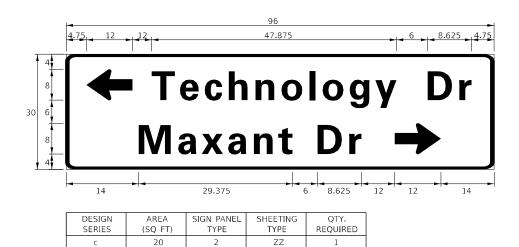
| _ | ELNA 62NE | |
|----|--------------|-----------------------------|
| 돐 | MODE: | AMES Engineering, Inc. |
| •, | Σ | CONSULTING ENGINEERS |
| - | 필글 | 6330 Belmont Road, Suite 4B |

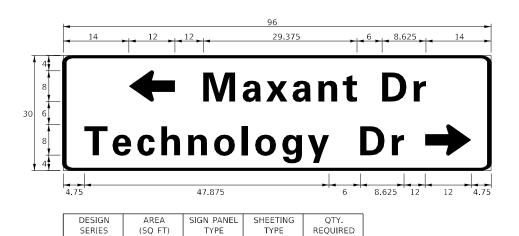
| USER NAME = shassan | DESIGNED - JR | REVISED - |
|------------------------|-------------------|-----------|
| | DRAWN - SR | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - JR | REVISED - |
| PLOT DATE = 2/23/2024 | DATE - 07/14/2023 | REVISED - |
| | | |

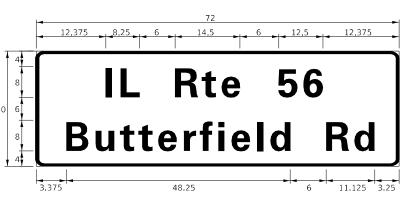




SIGN PANEL – TYPE 1 OR TYPE 2







(SQ FT)

| DESIGN | AREA | SIGN PANEL | SHEETING | QTY. |
|--------|---------|------------|----------|----------|
| 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.

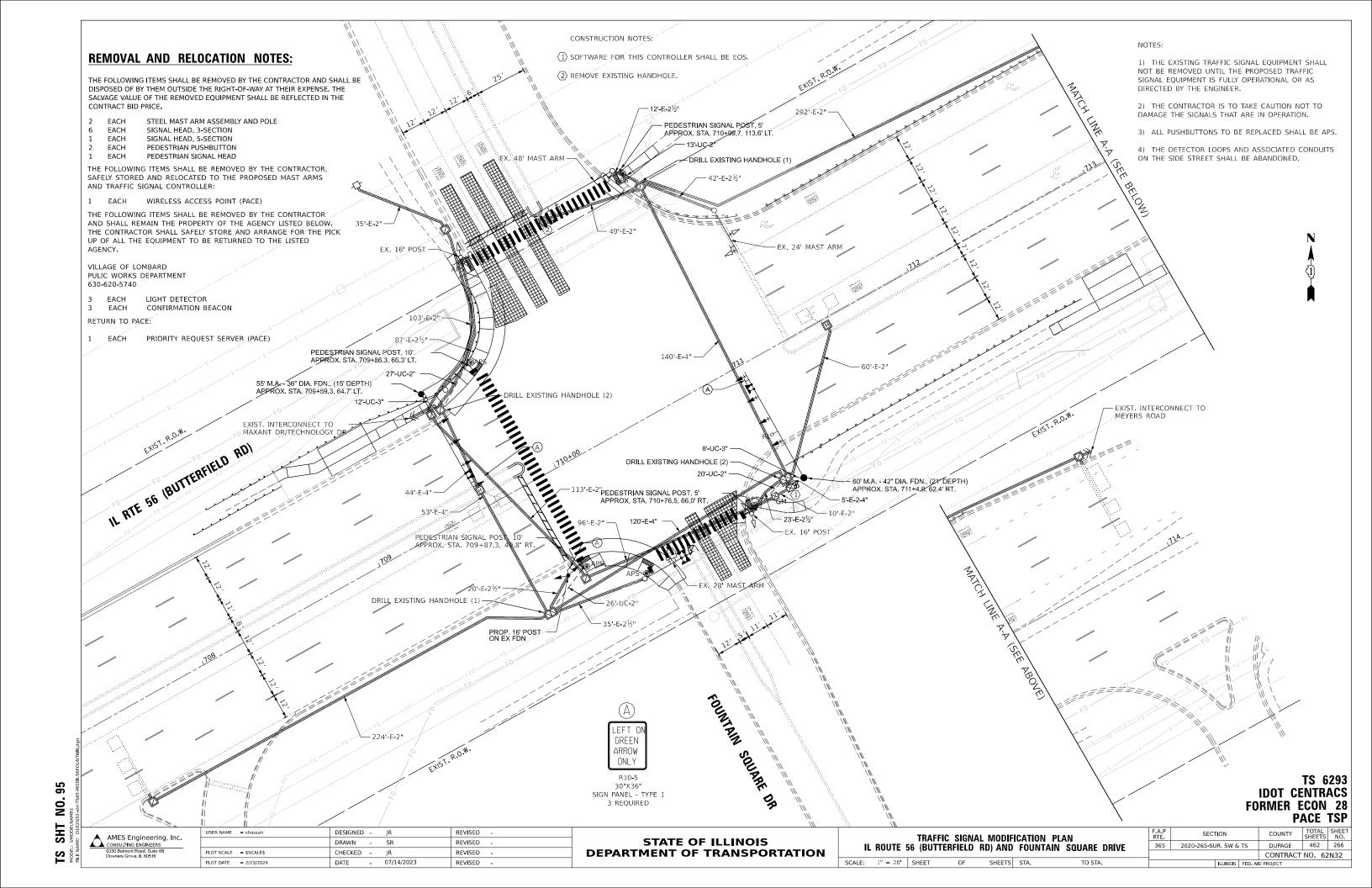
SCHEDULE OF QUANTITIES

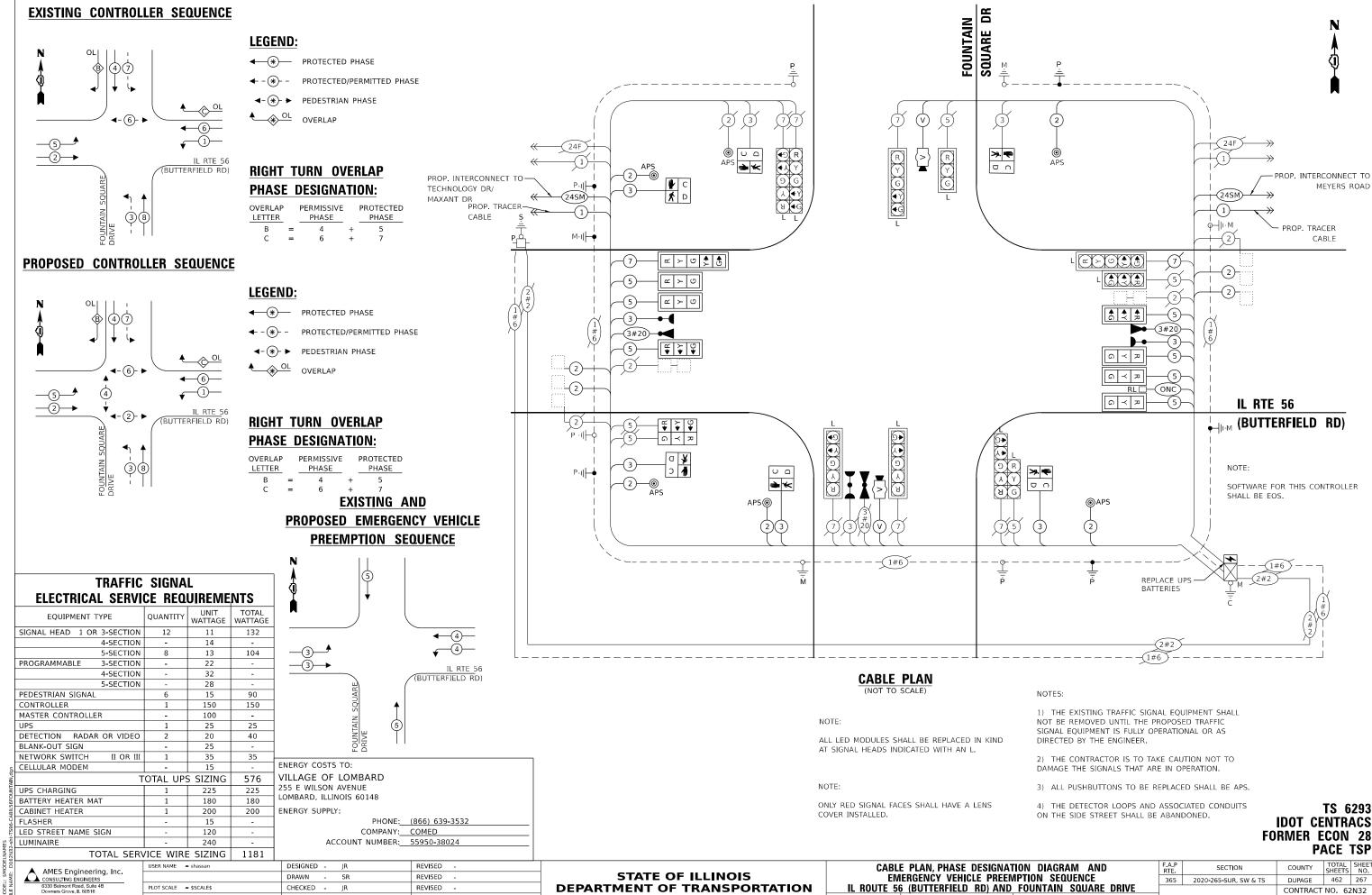
| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|---|-------|---------------|
| SIGN PANEL - TYPE 1 | SQ FT | 30 |
| SIGN PANEL - TYPE 2 | SQ FT | 70 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 346 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 20 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 226 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 1192 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 1680 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 1768 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 865 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 780 |
| ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C | FOOT | 50 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1/C | FOOT | 1043 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 4 |
| STEEL MAST ARM ASSEMBLY AND POLE, 50 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE, 52 FT. | EACH | 1 |
| CONCRETE FOUNDATION, TYPE A | FOOT | 4 |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 30 |
| DRILL EXISTING HANDHOLE | EACH | 13 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED | EACH | 10 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 6 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 2 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 2 |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED | | |
| WITH COUNTDOWN TIMER | EACH | 5 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 12 |
| INDUCTIVE LOOP DETECTOR | EACH | 9 |
| LIGHT DETECTOR | EACH | 3 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REMOVE EXISTING CONCRETE FOUNDATION | EACH | 2 |
| EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C | FOOT | 465 |
| OUTDOOR RATED NETWORK CABLE | FOOT | 72 |
| SERVICE INSTALLATION, GROUND MOOUNTED, METERED | EACH | 1 |
| LAYER II (DATA LINK) SWITCH | EACH | 1 |
| UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL | EACH | 1 |
| PEDESTRIAN SIGNAL POST, 10' | EACH | 4 |
| PEDESTRIAN SIGNAL POST, 5' | EACH | 1 |
| VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH | EACH | 2 |
| UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL) | EACH | 1 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 8 |
| CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER | FOOT | 20 |
| LED SIGNAL FACE, LENS COVER | EACH | 20 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER, 24 PORT | EACH | 1 |

TS 21870 **IDOT CENTRACS FORMER ECON 28**

| 7 10 | |
|------|-----------------------------|
| 2 2 | |
| ŭ. | AMES Engineering, Inc. |
| ., Ş | CONSULTING ENGINEERS |
| E 2 | 6330 Belmont Road, Suite 4B |

| USER NAME = shassan | DESIGNED | - | JR | REVISED | - |
|------------------------|----------|---|------------|---------|---|
| | DRAWN | - | SR | REVISED | - |
| PLOT SCALE = \$SCALE\$ | CHECKED | - | JR | REVISED | - |
| PLOT DATE = 2/23/2024 | DATE | - | 07/14/2023 | REVISED | - |



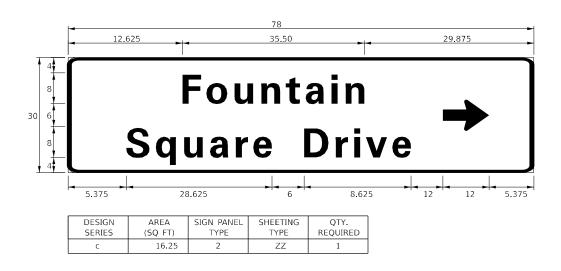


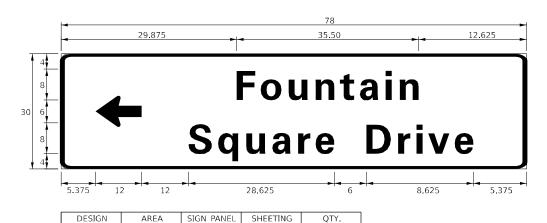
PLOT DATE = 2/23/2024

- 07/14/2023

REVISED -

SIGN PANEL - TYPE 1 OR TYPE 2





TYPE

ZZ

REQUIRED

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

SERIES

(SQ FT)

16.25

SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|---|-------|---------------|
| SIGN PANEL - TYPE 1 | SQ FT | 22.5 |
| SIGN PANEL - TYPE 2 | SQ FT | 32.5 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 86 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 20 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 971 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 1247 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 1432 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 317 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 1703 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 901 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE, 55 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE, 60 FT. | EACH | 1 |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 15 |
| CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER | FOOT | 21 |
| DRILL EXISTING HANDHOLE | EACH | 6 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 7 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 2 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 1 |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED | | |
| WITH COUNTDOWN TIMER | EACH | 6 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 8 |
| INDUCTIVE LOOP DETECTOR | EACH | 4 |
| LIGHT DETECTOR | EACH | 3 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REMOVE EXISTING HANDHOLE | EACH | 1 |
| REMOVE EXISTING CONCRETE FOUNDATION | EACH | 2 |
| EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C | FOOT | 477 |
| OUTDOOR RATED NETWORK CABLE | FOOT | 94 |
| LAYER II (DATA LINK) SWITCH | EACH | 1 |
| UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL | EACH | 1 |
| PEDESTRIAN SIGNAL POST, 10 FT. | EACH | 2 |
| PEDESTRIAN SIGNAL POST, 5 FT. | EACH | 2 |
| VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH | EACH | 2 |
| REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 6 |
| CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER | FOOT | 16 |
| LED SIGNAL FACE, LENS COVER | EACH | 20 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER. 24 PORT | EACH | 1 |
| LED SIGNAL MODULE REPLACEMENT | EACH | 10 |

TS 6293
IDOT CENTRACS
FORMER ECON 28
PACE TSP

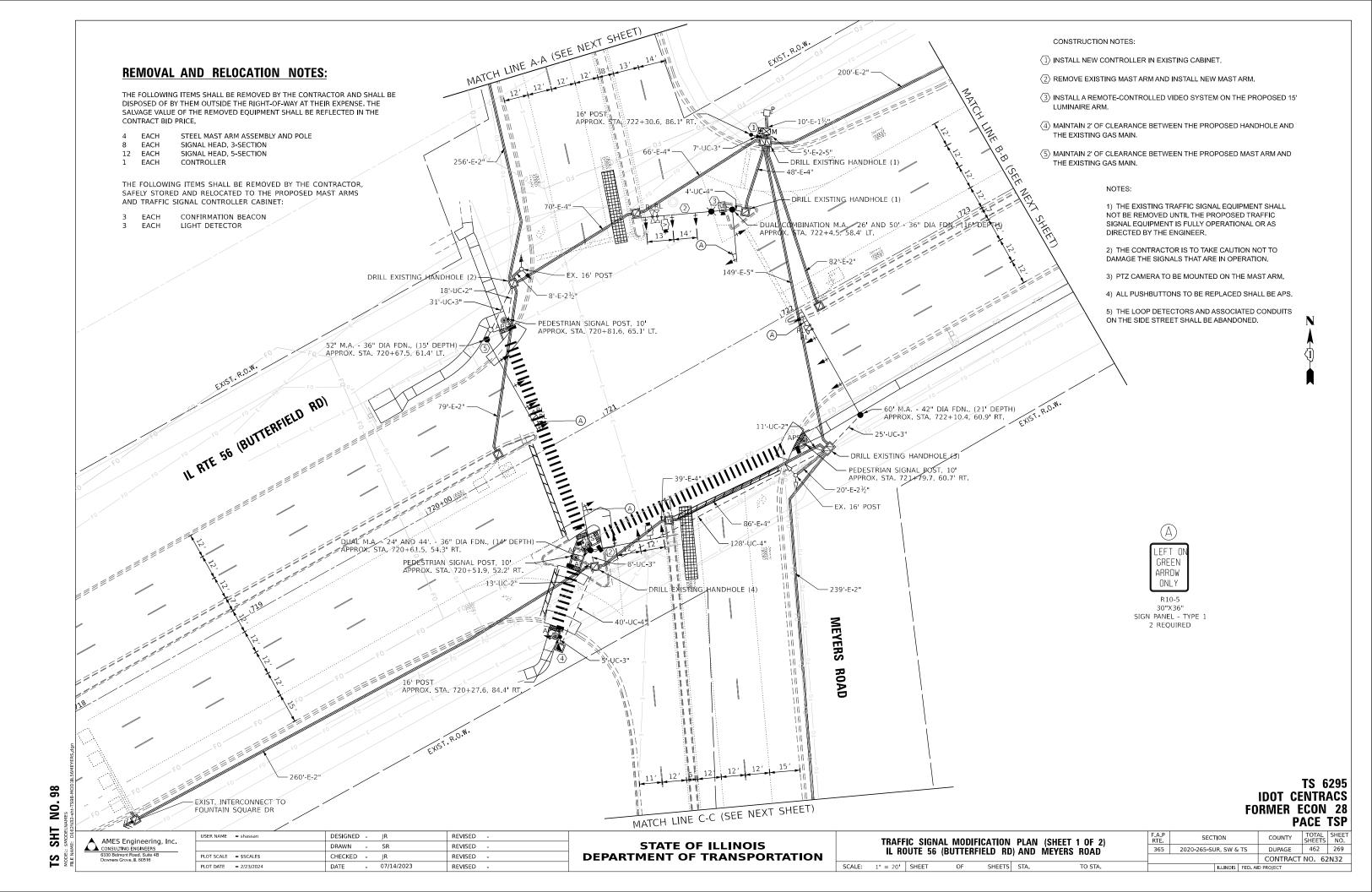
AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 48
Debugger Grown II 65/5/6

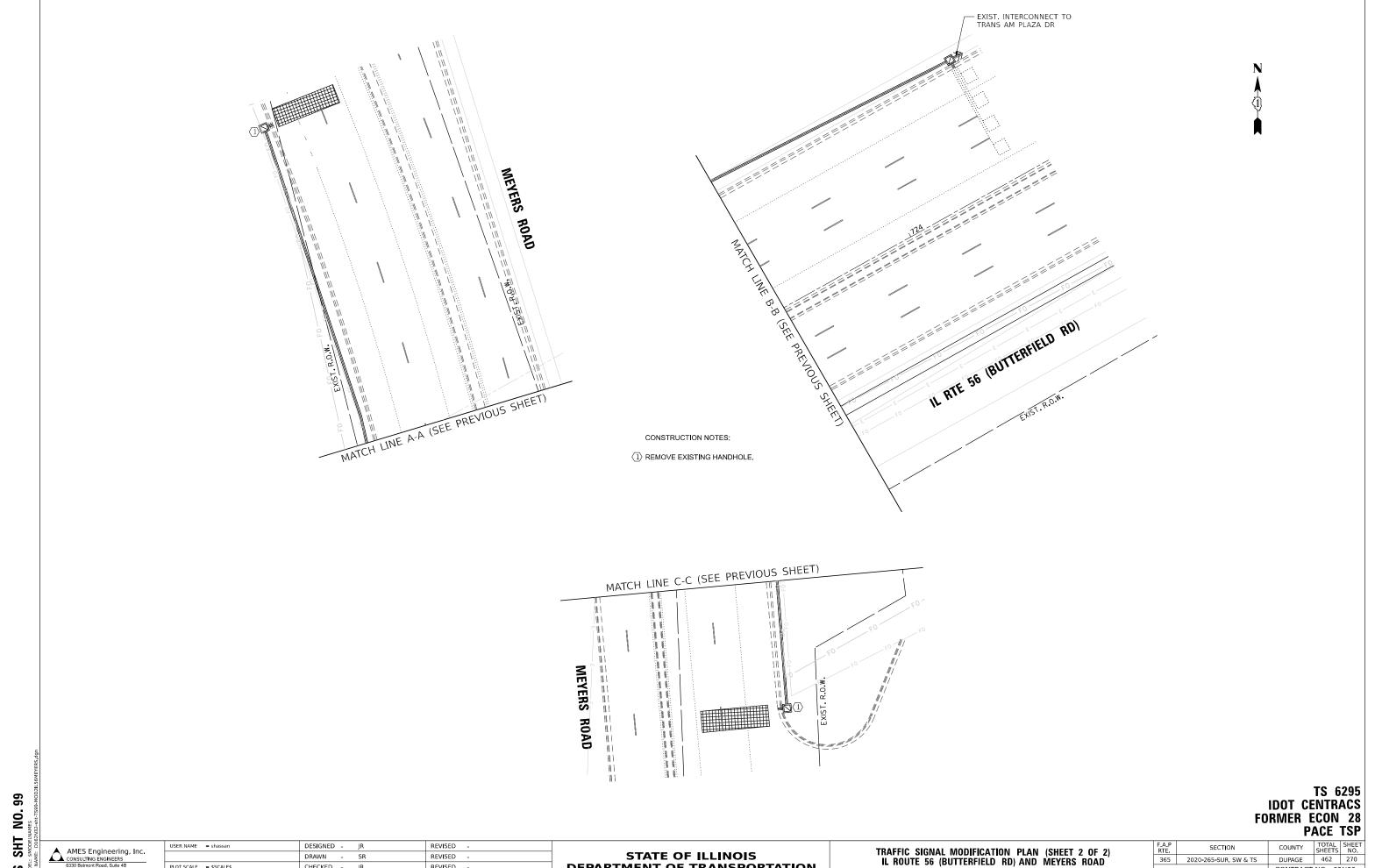
NO. 97

| USER NAME = shassan | DESIGNED - JR | REVISED - | |
|------------------------|-------------------|-----------|---|
| | DRAWN - SR | REVISED - |] |
| PLOT SCALE = \$SCALE\$ | CHECKED - JR | REVISED - |] |
| PLOT DATE = 2/23/2024 | DATE - 07/14/2023 | REVISED - |] |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

| SCHEDULE OF QUANTITIES | | | | | | | |
|------------------------|----------|------|----|--------|----------|--------------|--|
| IL ROUTE 56 | (BUTTERF | IELD | RD | AND | FOUNTAIN | SQUARE DRIVE | |
| SCALE: NTS | SHEET 1 | OF | 1 | SHEETS | STA. | TO STA. | |





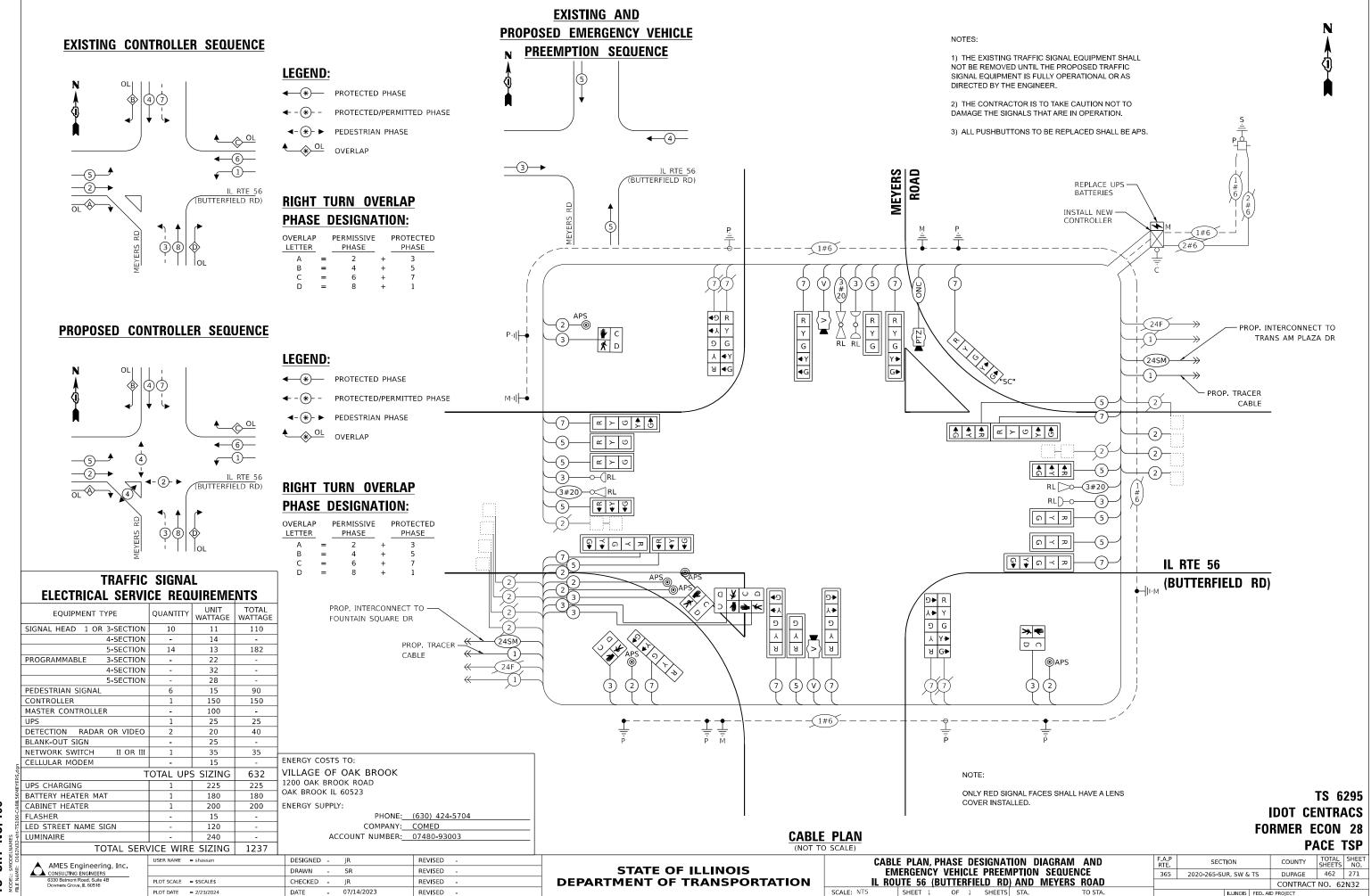
AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

PLOT SCALE = \$SCALE\$ CHECKED - JR REVISED -PLOT DATE = 2/23/2024 _ 07/14/2023 REVISED -DATE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN (SHEET 2 OF 2) IL ROUTE 56 (BUTTERFIELD RD) AND MEYERS ROAD SCALE: 1" = 20' SHEET SHEETS STA.

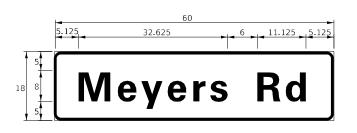
CONTRACT NO. 62N32



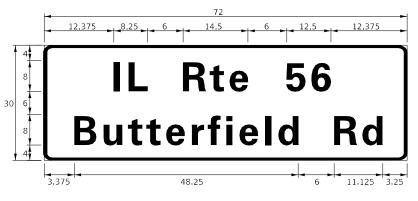
PROPOSED TRANSIT SIGNAL PRIORITY PREEMPTION SEQUENCE

IL RTE 56 (BUTTERFIELD RD)

SIGN PANEL - TYPE 1 OR TYPE 2



| DESIGN | AREA | SIGN PANEL | SHEETING | QTY. |
|--------|---------|------------|----------|----------|
| SERIES | (SQ FT) | TYPE | TYPE | REQUIRED |
| D | 7.5 | 1 | ZZ | |



| DESIGN | AREA | SIGN PANEL | SHEETING | QTY. |
|--------|---------|------------|----------|----------|
| SERIES | (SO FT) | TYPF | TYPF | REOUIRED |
| D | 15.0 | 2 | ZZ | 2 |

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

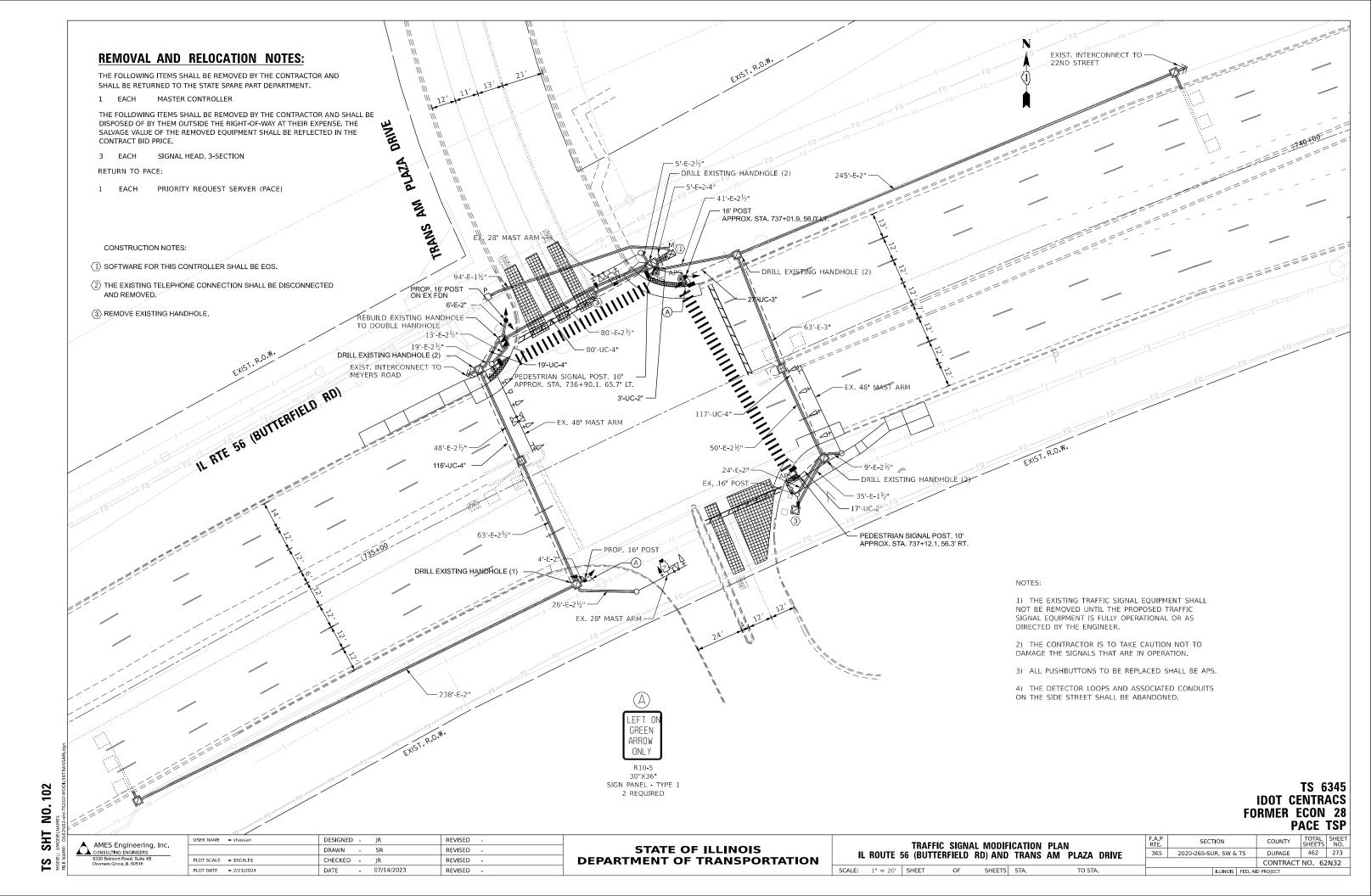
SCHEDULE OF QUANTITIES

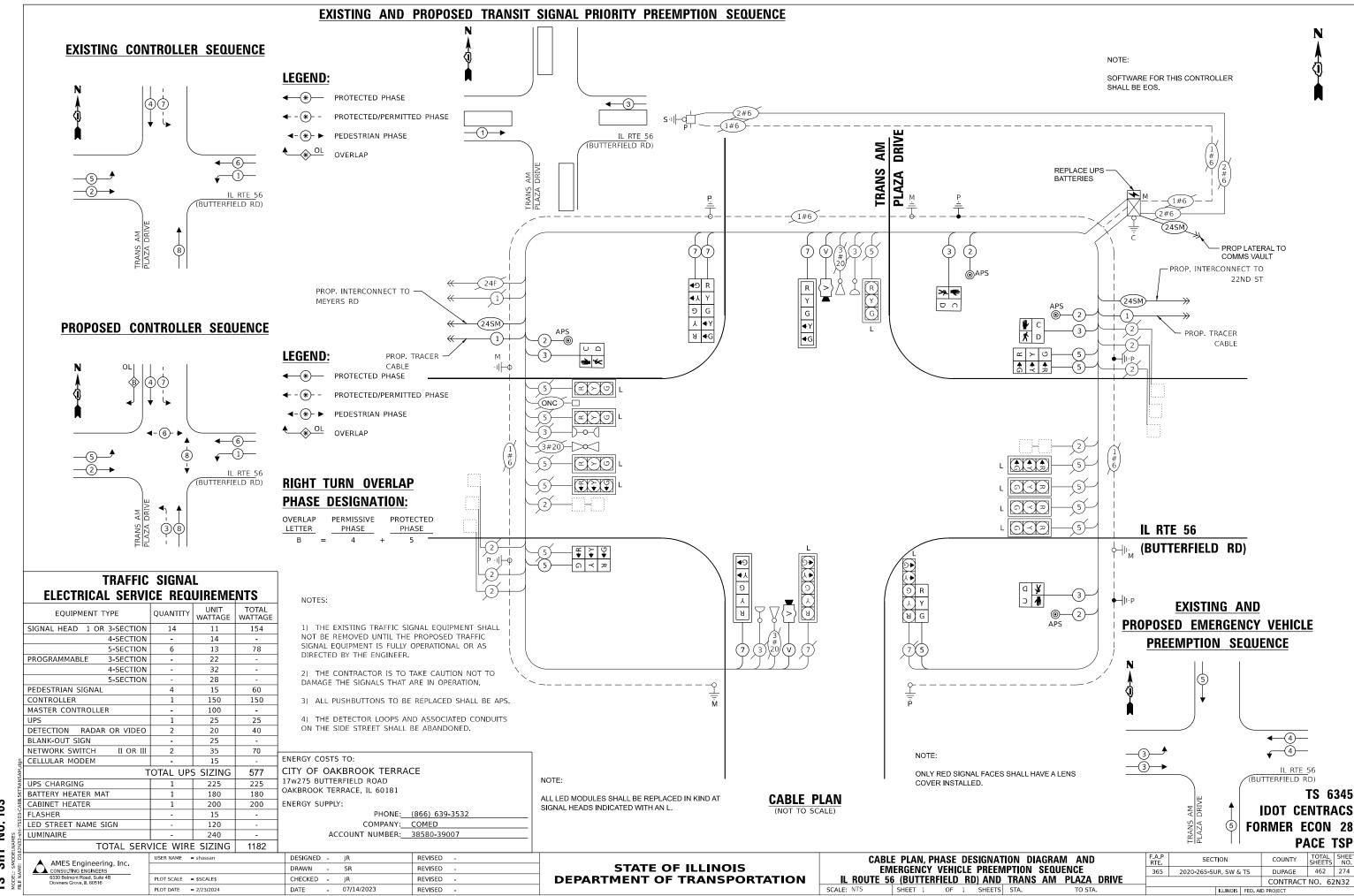
| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|---|-------|---------------|
| SIGN PANEL - TYPE 1 | SQ FT | 45 |
| SIGN PANEL - TYPE 2 | SQ FT | 30 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 42 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 76 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 172 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 1778 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 2512 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 2585 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 2399 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 684 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 1708 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 2 |
| STEEL MAST ARM ASSEMBLY AND POLE, 52 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE, 60 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 24 FT. AND 44 FT. | EACH | 1 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 26 FT. AND 50 FT. | EACH | 1 |
| CONCRETE FOUNDATION, TYPE A | FOOT | 8 |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 45 |
| CONCRETE FOUNDATION. TYPE E 42-INCH DIAMETER | FOOT | 21 |
| DRILL EXISTING HANDHOLE | EACH | 11 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 10 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 6 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 8 |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 6 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 18 |
| INDUCTIVE LOOP DETECTOR | EACH | 3 |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT | EACH | 3 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REMOVE EXISTING HANDHOLE | EACH | 2 |
| REMOVE EXISTING CONCRETE FOUNDATION | EACH | 4 |
| EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO, 20 3/C | FOOT | 680 |
| OUTDOOR RATED NETWORK CABLE | FOOT | 128 |
| REMOTE CONTROLLED VIDEO SYSTEM | EACH | 1 |
| LAYER II (DATALINK) SWITCH | EACH | 1 |
| PEDESTRIAN SIGNAL POST, 10 FT. | EACH | 3 |
| VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH | EACH | 2 |
| FULL-ACTUATED CONTROLLER IN EXISTING CABINET | EACH | 1 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 6 |
| CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER | FOOT | 12 |
| LED SIGNAL FACE, LENS COVER | EACH | 24 |
| REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY. EXTENDED | EACH | 1 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| | | |
| FIBER OPTIC INTERCONNECT CENTER, 24 PORT | EACH | 1 |

TS 6295 IDOT CENTRACS FORMER ECON 28 PACE TSP

| NO. 101 | AME\$ J32-sht-TS101-STNIL5 | |
|---------|-------------------------------|-----------------------------|
| - | DELNAM D162N32 | |
| SHT | : \$MC | AMES Engineering, Inc. |
| | 교절 | 6330 Belmont Road, Suite 4B |

| USER NAME = shassan | DESIGNED - | - | JR | REVISED | - | |
|------------------------|------------|---|------------|---------|---|--|
| | DRAWN - | - | SR | REVISED | - | |
| PLOT SCALE = \$SCALE\$ | CHECKED - | - | JR | REVISED | - | |
| PLOT DATE = 2/23/2024 | DATE - | - | 07/14/2023 | REVISED | - | |
| | | | | | | |

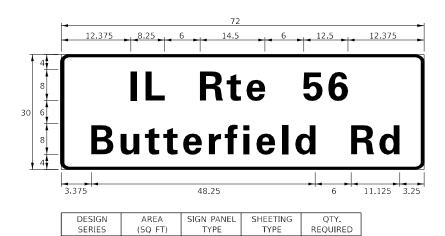




SIGN PANEL – TYPE 1 OR TYPE 2

(SQ FT)

15.0



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

ZZ

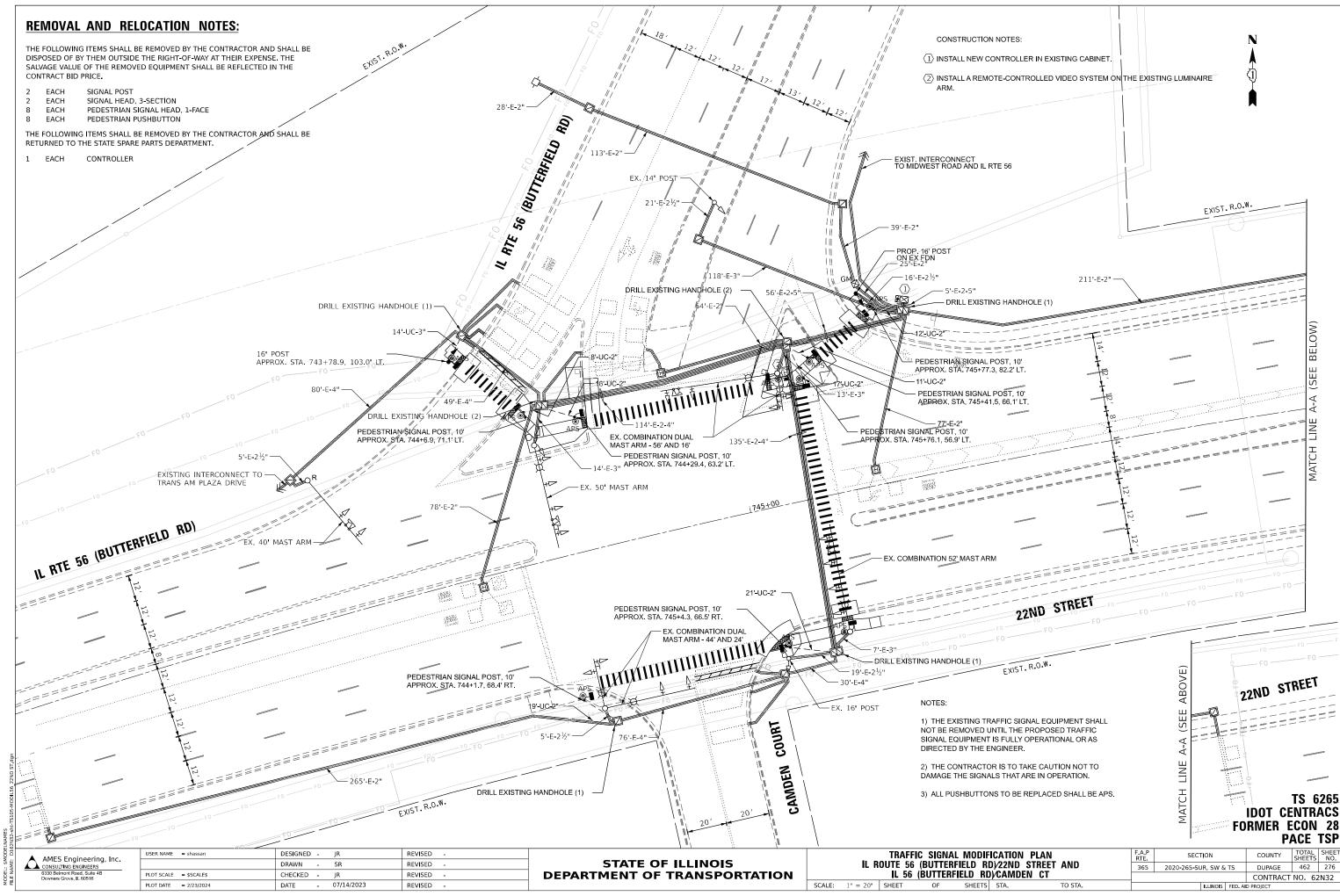
SCHEDULE OF QUANTITIES

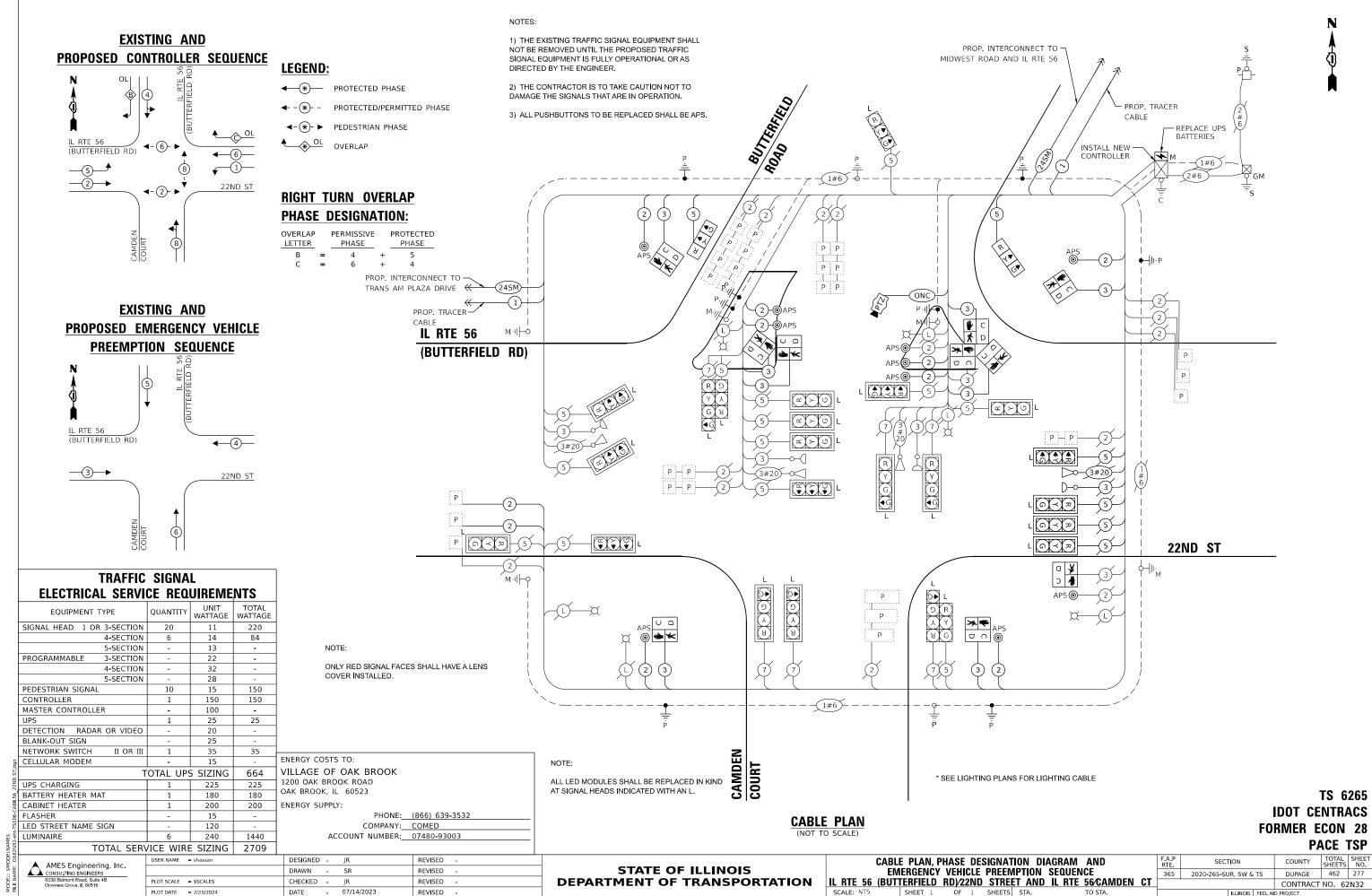
| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|---|-------|---------------|
| SIGN PANEL - TYPE 1 | SQ FT | 15 |
| SIGN PANEL - TYPE 2 | SQ FT | 30 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 20 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 27 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 332 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 488 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 524 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 743 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 681 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 281 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 3 |
| CONCRETE FOUNDATION, TYPE A | FOOT | 4 |
| DRILL EXISTING HANDHOLE | EACH | 9 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 5 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 2 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 2 |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 4 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 2 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REMOVE EXISTING HANDHOLE | EACH | 2 |
| REMOVE EXISTING FOUNDATION | EACH | 1 |
| LAYER II (DATALINK) SWITCH | EACH | 1 |
| UPGRADE EXISTING CONTROLLER TO NTCIP (SPECIAL) | EACH | 1 |
| PEDESTRIAN SIGNAL POST, 10' | EACH | 2 |
| VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH | EACH | 2 |
| REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 4 |
| CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER | FOOT | 8 |
| LED SIGNAL FACE, LENS COVER | EACH | 20 |
| REBUILD EXISTING HANDHOLE TO DOUBLE HANDHOLE | EACH | 1 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER, 24 PORT | EACH | 1 |
| LED SIGNAL MODULE REPLACEMENT | EACH | 11 |

TS 6345 **IDOT CENTRACS** FORMER ECON 28

| - 5 Z L | |
|----------|---|
| : \$MODE | AMES Engineering, Inc. |
| E N | 6330 Belmont Road, Suite 4B Downers Grove, II, 60516 |

| USER NAME = shassan | DESIGNED | - | JR | REVISED - | |
|------------------------|----------|---|------------|-----------|--|
| | DRAWN | - | SR | REVISED - | |
| PLOT SCALE = \$SCALE\$ | CHECKED | - | JR | REVISED - | |
| PLOT DATE = 2/23/2024 | DATE | - | 07/14/2023 | REVISED - | |





AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 48 Downers Grove, II. 80516

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

| | SCHEDULE OF QUANTITIES | | | | | | | | |
|--|--|---------|------|----------|------|---------|--|--|--|
| | IL ROUTE 56 (BUTTERFIELD RD)/22ND STREET AND | | | | | | | | |
| IL ROUTE 56 (BUTTERFIELD RD)/CAMDEN CT | | | | | | | | | |
| | SCALE: NTS | SHEET 1 | OF 1 | SHEETS S | STÁ. | TO STA. | | | |

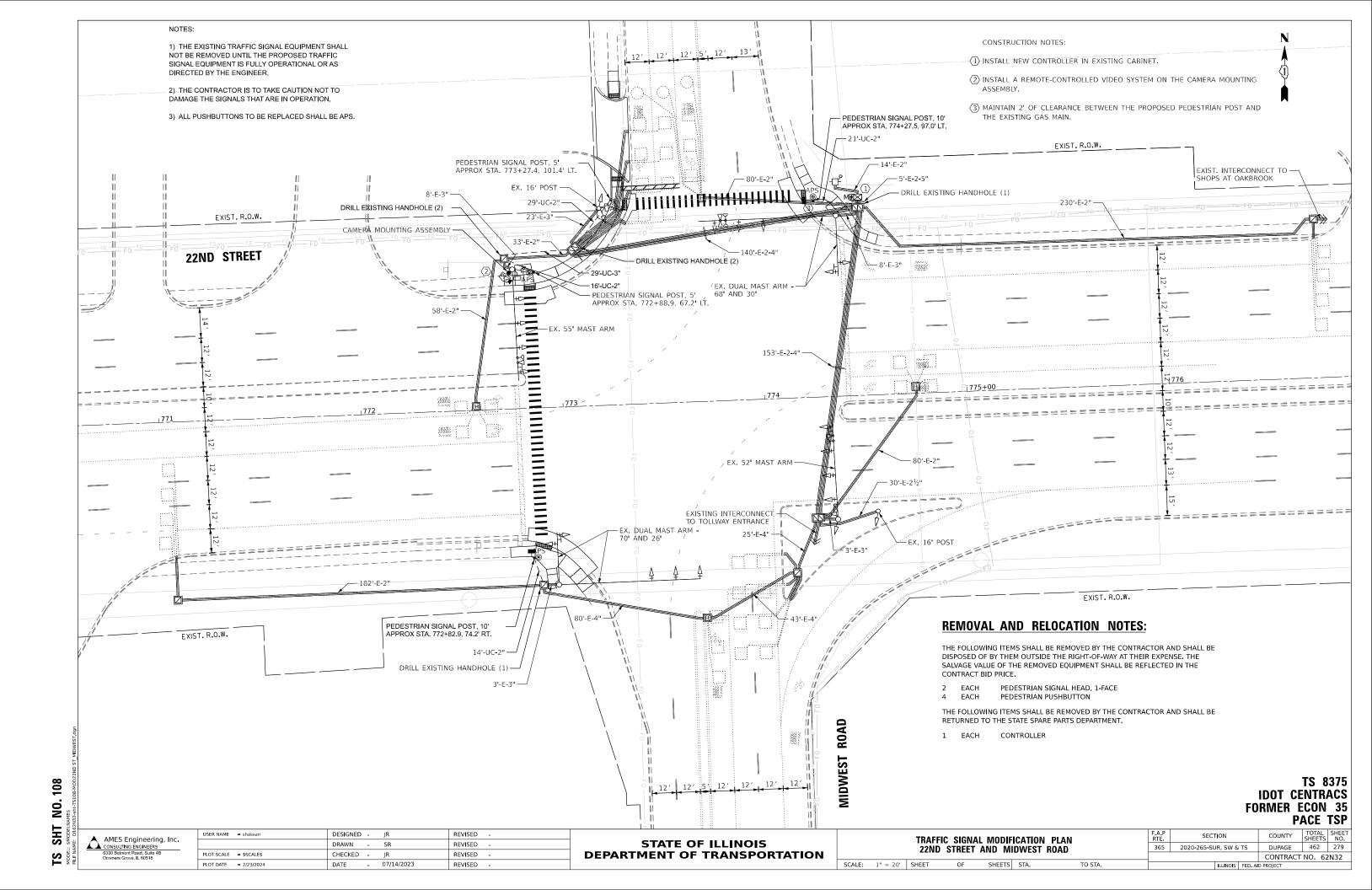
| | | | | P/ | VCE . | ΓSΡ |
|--------------|-----------------------|----------|---------|-----------|-----------------|--------------|
| F.A.P RTE | SECTION | | | COUNTY | TOTAL SHEETS | SHEET NO. |
| 365 | 2020-265-SUR, SW & TS | | | DUPAGE | 462 | 278 |
| | | | | CONTRACT | NO. 62 | 2N32 |
| | | ILLINOIS | FED. AI | D PROJECT | | |
| | | | | | | |

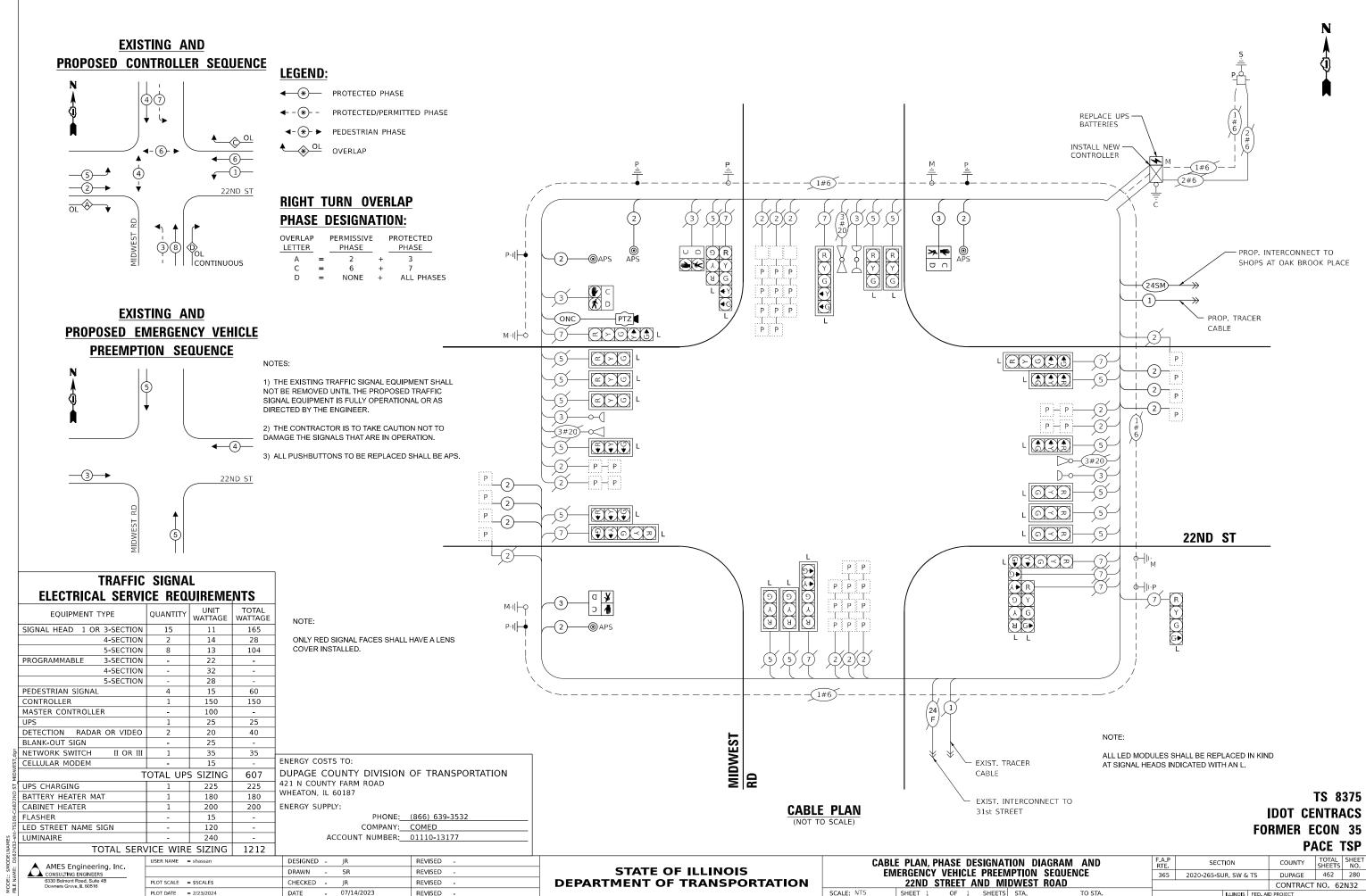
TS 6265

IDOT CENTRACS FORMER ECON 28

SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|--|-------|---------------|
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 104 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 14 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 1655 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 1727 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 303 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 1258 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 880 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 2 |
| CONCRETE FOUNDATION, TYPE A | FOOT | 4 |
| DRILL EXISTING HANDHOLE | EACH | 8 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 2 |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 10 |
| INDUCTIVE LOOP DETECTOR | EACH | 2 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| OUTDOOR RATED NETWORK CABLE | FOOT | 147 |
| REMOTE CONTROLLED VIDEO SYSTEM | EACH | 1 |
| LAYER II (DATA LINK) SWITCH | EACH | 1 |
| PEDESTRIAN SIGNAL POST, 10' | EACH | 7 |
| FULL-ACTUATED CONTROLLER IN EXISTING CABINET | EACH | 1 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 10 |
| CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER | FOOT | 28 |
| LED SIGNAL FACE, LENS COVER | EACH | 25 |
| REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER, 24 PORT | EACH | 1 |
| LED SIGNAL MODULE REPLACEMENT | EACH | 24 |
| | | |





| USER NAME = shassan | DESIGNED | - | JR | REVISED | - |
|------------------------|----------|---|------------|---------|---|
| | DRAWN | - | SR | REVISED | - |
| PLOT SCALE = \$SCALE\$ | CHECKED | - | JR | REVISED | - |
| PLOT DATE = 2/23/2024 | DATE | - | 07/14/2023 | REVISED | - |
| | | | | | |

DEPARTMENT OF TRANSPORTATION

| | 22ND | STREET | AND | MII | DWEST | ROAD | |
|--|---------|--------|------|------|-------|------|---------|
| | SHEET 1 | OF | 1 SH | EETS | STA. | | TO STA. |

| F.A.P RTE | SECTION 2020-265-SUR, SW & TS | | | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|-------------------------------|-----------|--|----------|-----------------|--------------|
| 365 | | | | DUPAGE | 462 | 281 |
| | | | | CONTRACT | NO. 62 | 2N32 |
| | | D PROJECT | | | | |
| | | | | | | |

TS 8375

PACE TSP

IDOT CENTRACS FORMER ECON 35

EACH

FOOT

EACH

EACH

EACH

EACH

EACH

EACH

25

| SCHEDULE OF QUANTITIES | | |
|---|------|---------------|
| ITEM DESCRIPTION IDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. IDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. INTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION ECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C ECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C ECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR ECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C ILL EXISTING HANDHOLE IDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER DUCTIVE LOOP DETECTOR EMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT JTDOOR RATED NETWORK CABLE EMOTE CONTROLLED VIDEO SYSTEM YERR II (DATALINK) SWITCH IDESTRIAN SIGNAL POST, 10' IDESTRIAN SIGNAL POST, 5' JILL-ACTUATED CONTROLLER IN EXISTING CABINET | | TOTAL QTY. |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 80 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 29 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 873 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 426 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 2360 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 746 |
| DRILL EXISTING HANDHOLE | EACH | 6 |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 2 |
| INDUCTIVE LOOP DETECTOR | EACH | 6 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| OUTDOOR RATED NETWORK CABLE | FOOT | 265 |
| REMOTE CONTROLLED VIDEO SYSTEM | EACH | 1 |
| LAYER II (DATALINK) SWITCH | EACH | 1 |
| PEDESTRIAN SIGNAL POST, 10' | EACH | 2 |
| PEDESTRIAN SIGNAL POST, 5' | EACH | 2 |
| FULL-ACTUATED CONTROLLER IN EXISTING CABINET | EACH | 1 |
| REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 |
| | | |

ACCESSIBLE PEDESTRIAN SIGNALS

LED SIGNAL FACE, LENS COVER

CAMERA MOUNTING ASSEMBLY

SCALE: NTS

CENTRACS LICENSE EXPANSION

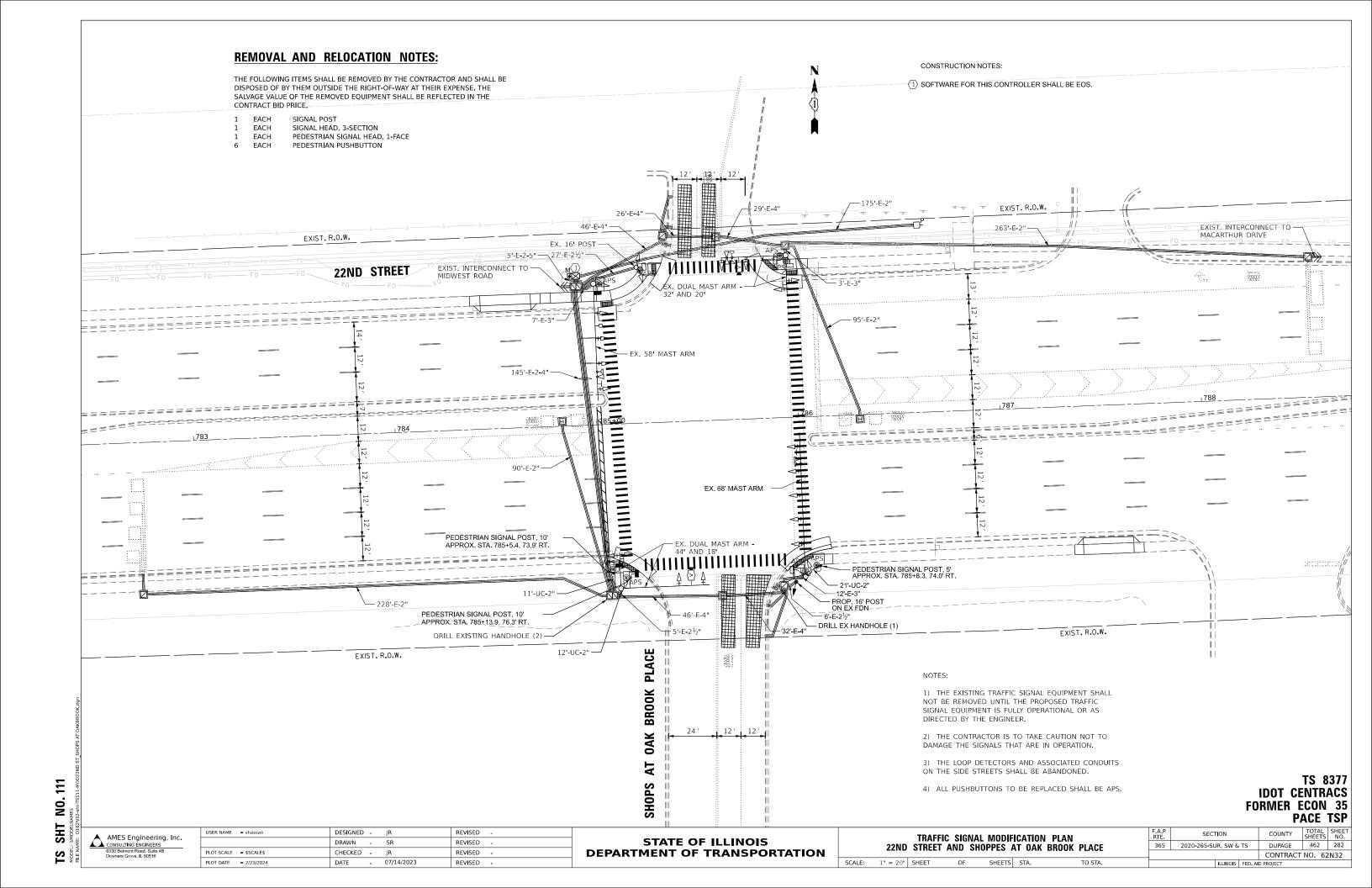
LED SIGNAL MODULE REPLACEMENT

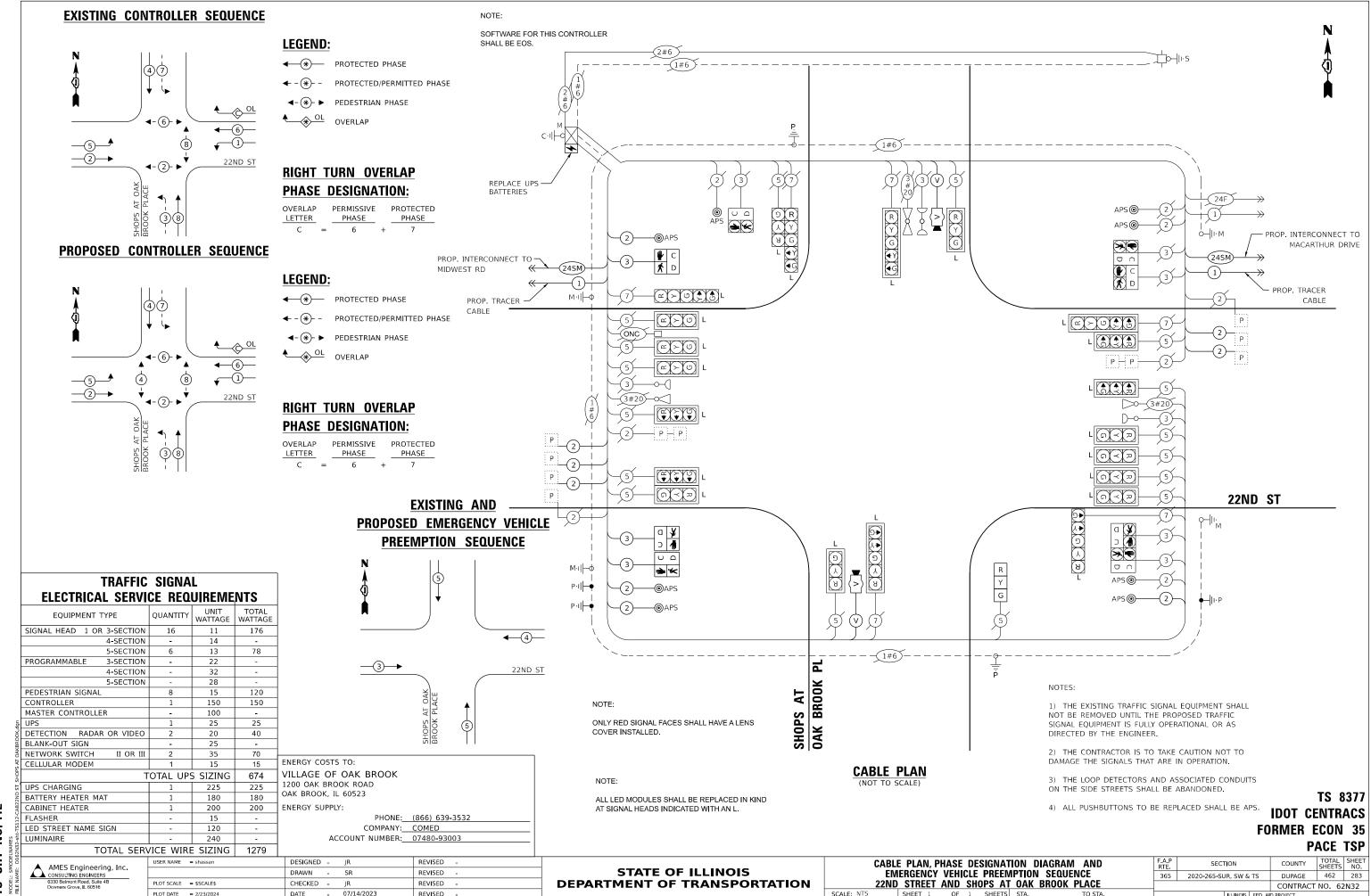
COCNRETE FOUNDATION, TYPE A, 12-INCH DIAMETER

LED PEDESTRIAN SIGNAL MODULE REPLACEMENT

FIBER OPTIC INTERCONNECT CENTER, 24 PORT

STATE OF ILLINOIS





AMES Engineering, Inc. CONSULTING ENGINEERS 630 Belmont Road, Suite 48 Downers Grove, IL 00516

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

| SCHEDULE OF QUANTITIES | | | | | | | | |
|------------------------|------|---------|-------|-----|--------|------|-------|---------|
| | 22ND | STREE | T AND | SHC | PS AT | OAK | BROOK | PLACE |
| SCALE: NTS | | SHEET 1 | OF | 1 | SHEETS | STA. | | TO STA. |

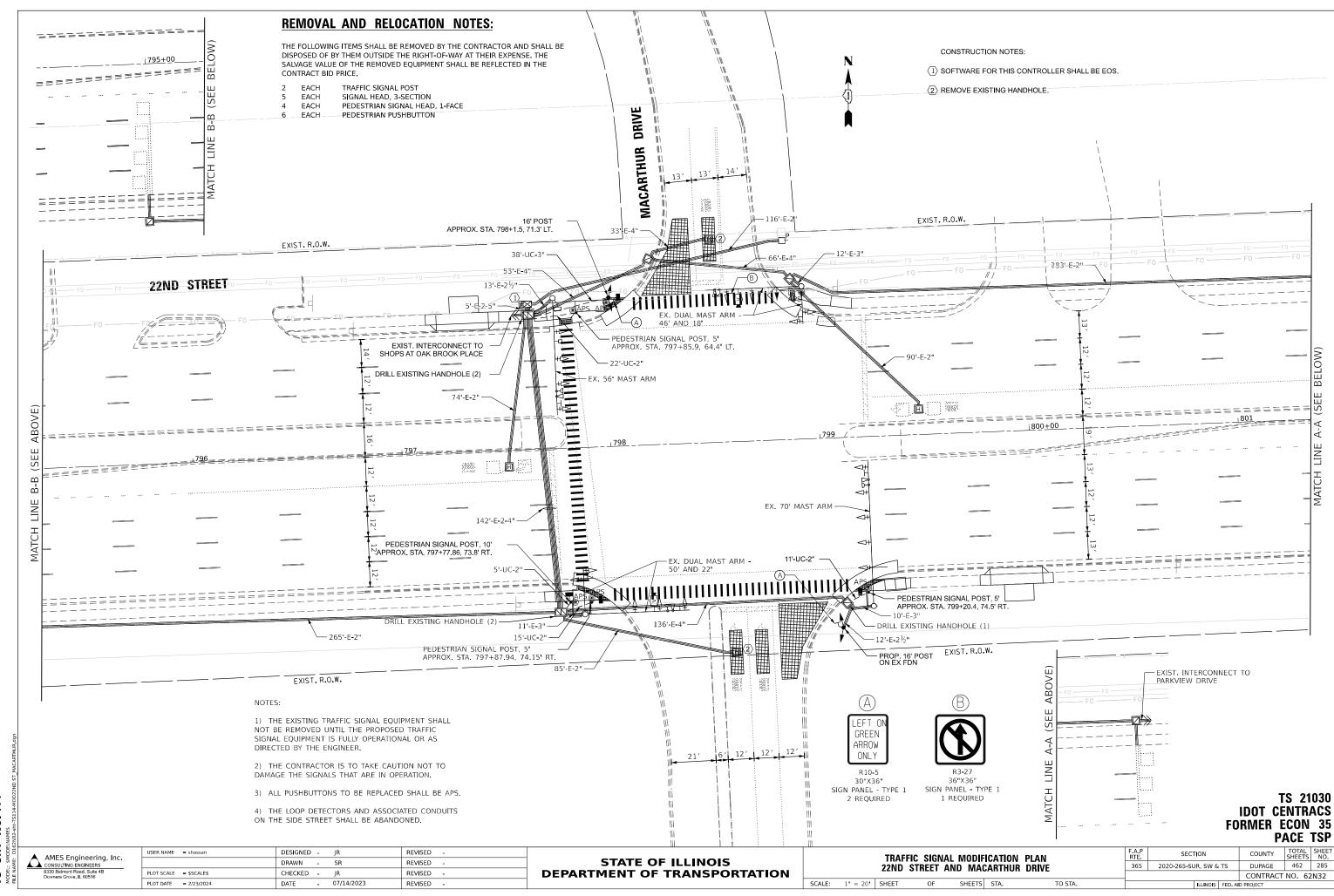
| | | D/ | CE . | ГСD |
|--------------|-----------------------|------------|-----------------|--------------|
| | | | | |
| F.A.P RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 365 | 2020-265-SUR, SW & TS | DUPAGE | 462 | 284 |
| | | CONTRACT | NO. 62 | 2N32 |
| | ILLINOIS FED. A | ID PROJECT | | |
| | | | | |

TS 8377

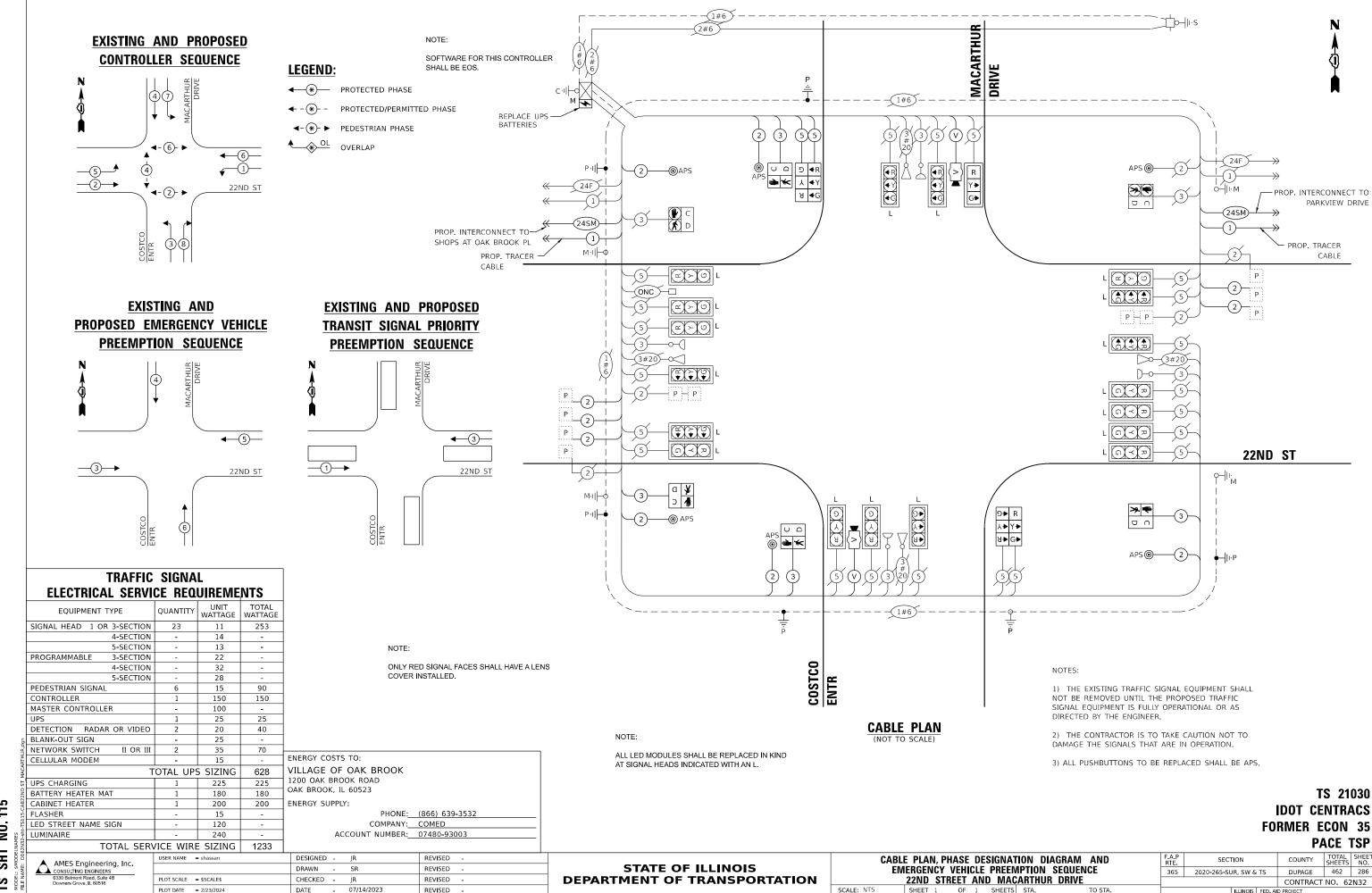
IDOT CENTRACS FORMER ECON 35

SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|--|-------|---------------|
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 44 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 730 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 245 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 2137 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 596 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 1 |
| DRILL EXISTING HANDHOLE | EACH | 3 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 1 |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 3 |
| INDUCTIVE LOOP DETECTOR | EACH | 9 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| LAYER II (DATALINK) SWITCH | EACH | 1 |
| UPGRADE EXISTING CONTROLLER TO NTCIP (SPECIAL) | EACH | 1 |
| PEDESTRIAN SIGNAL POST, 10' | EACH | 2 |
| PEDESTRIAN SIGNAL POST, 5' | EACH | 1 |
| VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH | EACH | 2 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 8 |
| CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER | FOOT | 12 |
| LED SIGNAL FACE, LENS COVER | EACH | 22 |
| LED PEDESTRIAN SIGNAL MODULE REPLACEMENT | EACH | 5 |
| REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER, 24 PORT | EACH | 1 |
| LED SIGNAL MODULE REPLACEMENT | EACH | 21 |



TS SHT NO. 114



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES 22ND STREET AND MACARTHUR DRIVE SHEET 1 OF 1 SHEETS STA. TO STA.

FIBER OPTIC INTERCONNECT CENTER, 24 PORT

LED SIGNAL MODULE REPLACEMENT

SCALE: NTS

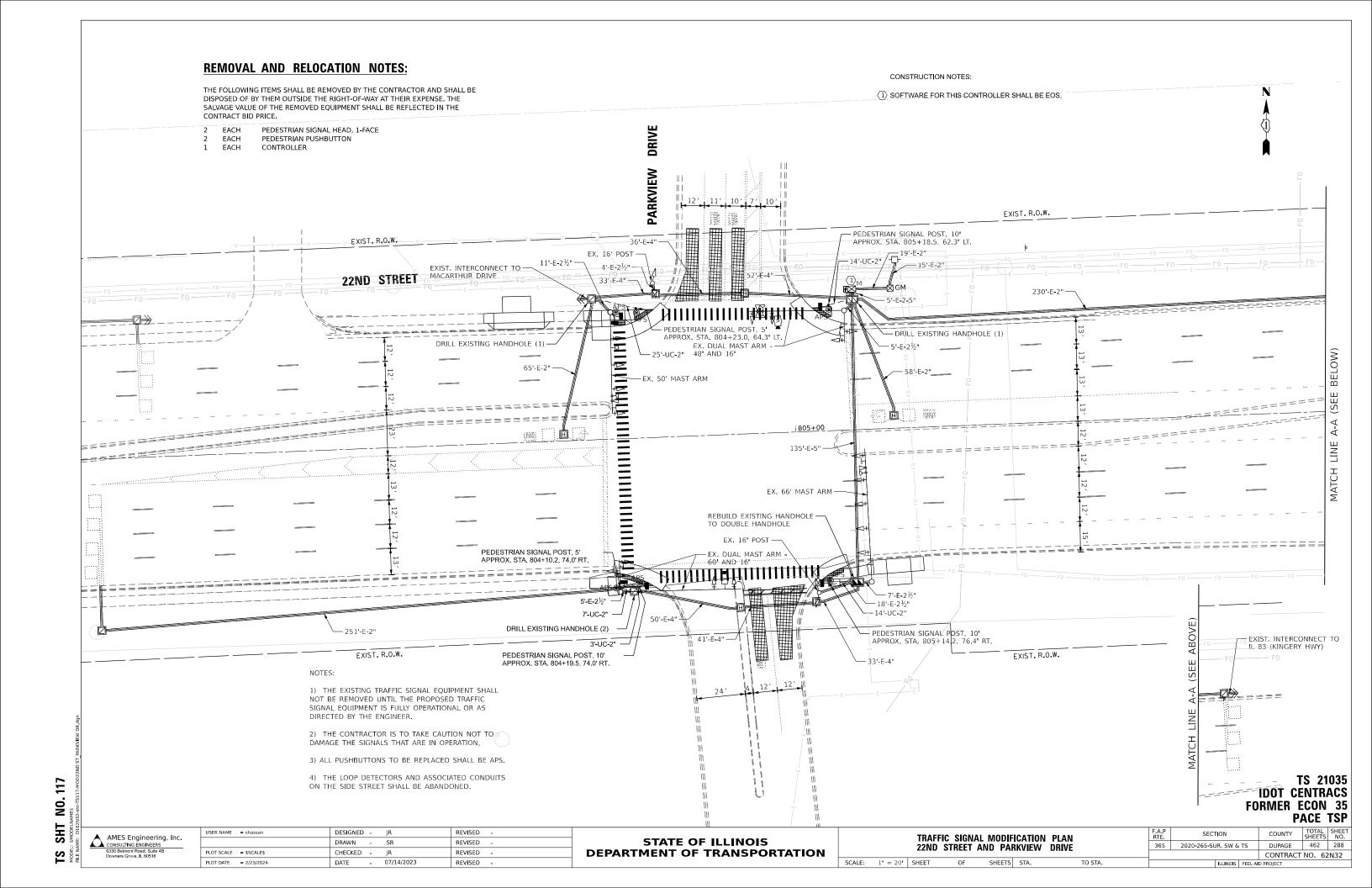
TS 21030

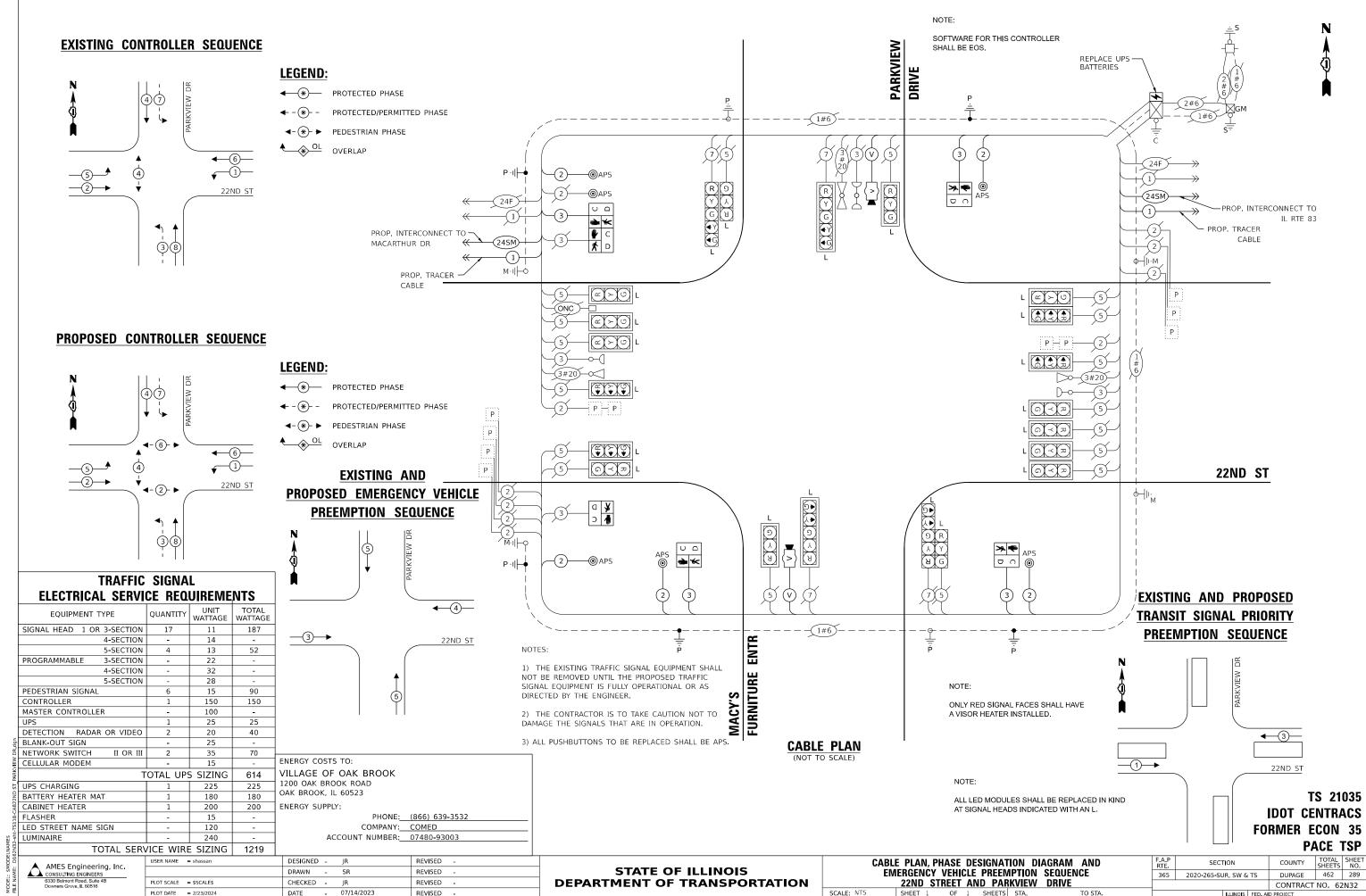
IDOT CENTRACS FORMER ECON 35

EACH

EACH

| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|---|-------|---------------|
| SIGN PANEL - TYPE 1 | SQ FT | 15 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL 2" DIA. | FOOT | 53 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL 3" DIA. | FOOT | 38 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 851 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 837 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 143 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 2230 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 692 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 2 |
| CONCRETE FOUNDATION, TYPE A | FOOT | 4 |
| DRILL EXISTING HANDHOLE | EACH | 5 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 1 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 5 |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 4 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 1 |
| INDUCTIVE LOOP DETECTOR | EACH | 5 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REMOVE EXISTING HANDHOLE | EACH | 2 |
| REMOVE EXISTING CONCRETE FOUNDATION | EACH | 1 |
| LAYER II (DATA LINK) SWITCH | EACH | 1 |
| UPGRADE EXISTING CONTROLLER TO NTCIP (SPECIAL) | EACH | 1 |
| PEDESTRIAN SIGNAL POST, 10' | EACH | 1 |
| PEDESTRIAN SIGNAL POST, 5' | EACH | 3 |
| VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH | EACH | 2 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 6 |
| CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER | FOOT | 16 |
| LED SIGNAL FACE, LENS COVER | EACH | 23 |
| LED PEDESTRIAN SIGNAL MODULE REPLACEMENT | EACH | 2 |
| REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPPLY, EXTENDED | EACH | 1 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIRED ORTIO INTERCOMMENT OF MEDIT | E1011 | |





AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmon Road, Suite 49 Downers Grove, It. 60516

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

| | SCHE | DULE | E OF | QUA | NTITIES | | |
|-------|------|------|------|-------|---------|-------|----|
| 22ND | STRE | ET A | AND | PARI | KVIEW | DRIVE | |
| SHEET | 1 (| OF 1 | . SH | HEETS | STA. | | то |

SCALE: NTS

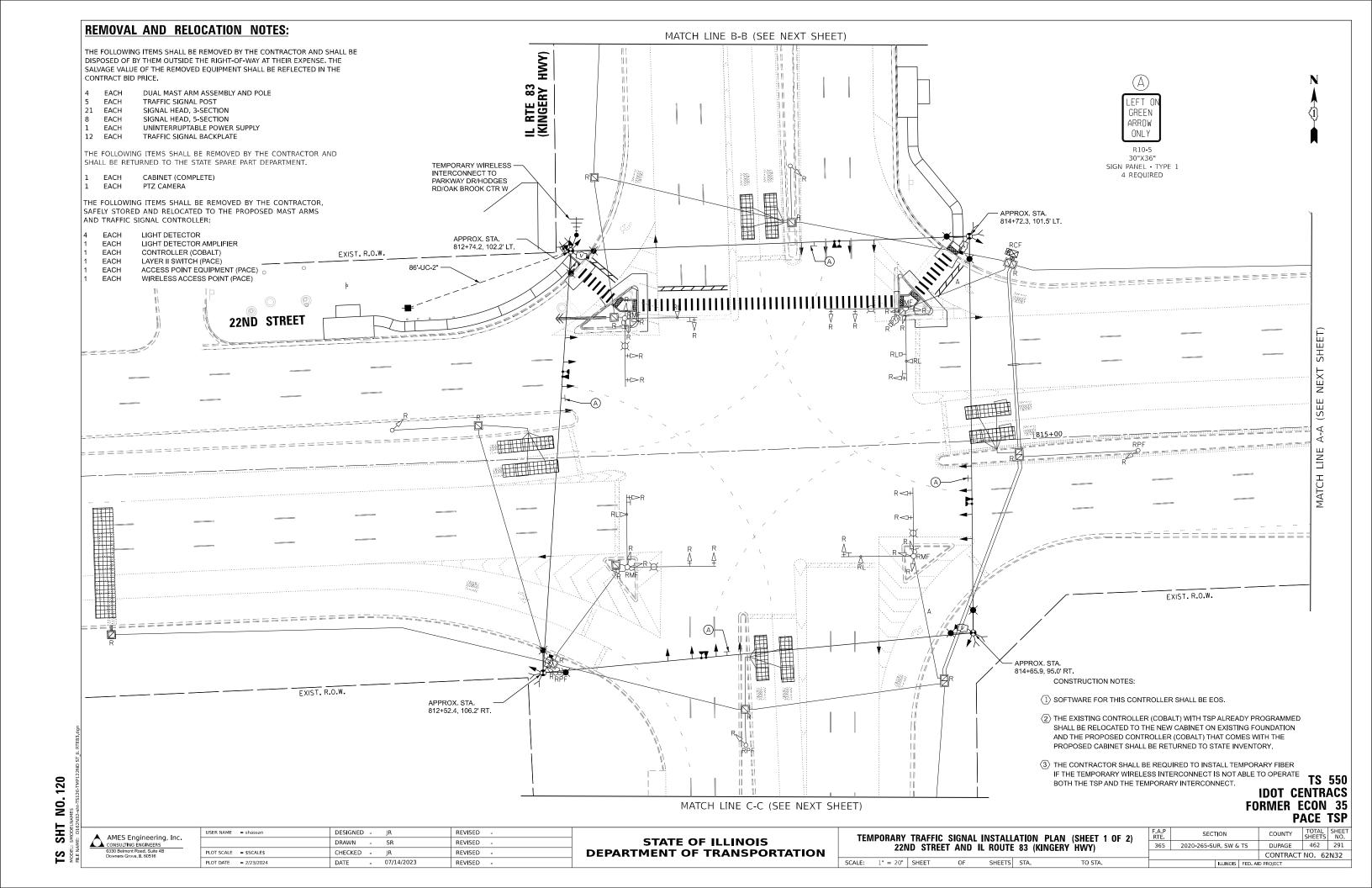
| | | P/ | /CE | ГСБ |
|--------------|-----------------------|------------|-----------------|--------------|
| | | | | |
| F.A.P RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 365 | 2020-265-SUR, SW & TS | DUPAGE | 462 | 290 |
| | | CONTRACT | NO. 62 | 2N32 |
| | ILLINOIS FED. A | ID PROJECT | | |
| | | | | |

TS 21035

IDOT CENTRACS FORMER ECON 35

SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|---|-------|---------------|
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 56 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 750 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 786 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 623 |
| DRILL EXISTING HANDHOLE | EACH | 3 |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 6 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| LAYER II (DATA LINK) SWITCH | EACH | 1 |
| UPGRADE EXISTING CONTROLLER TO NTCIP (SPECIAL) | EACH | 1 |
| PEDESTRIAN SIGNAL POST, 10' | EACH | 3 |
| PEDESTRIAN SIGNAL POST, 5' | EACH | 1 |
| VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH | EACH | 2 |
| LED SIGNAL FACE VISOR HEATER | EACH | 21 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 6 |
| CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER | FOOT | 16 |
| LED PEDESTRIAN SIGNAL MODULE REPLACEMENT | EACH | 2 |
| REBUILD EXISTING HANDHOLE TO DOUBLE HANDHOLE | EACH | 1 |
| REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER, 24 PORT | EACH | 1 |
| LED SIGNAL MODULE REPLACEMENT | EACH | 21 |
| | | |





USER NAME = shassan DESIGNED - JR REVISED DRAWN - SR REVISED PLOT SCALE = \$SCALE\$ CHECKED - JR REVISED -PLOT DATE = 2/23/2024 - 07/14/2023 REVISED -DATE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN (SHEET 2 OF 2) 22ND STREET AND IL ROUTE 83 (KINGERY HWY)

PACE TSP
 F.A.P RTE.
 SECTION
 COUNTY
 TOTAL SHEETS
 SHEETS NO.

 365
 2020-265-SUR, SW & TS
 DUPAGE
 462
 292
 CONTRACT NO. 62N32

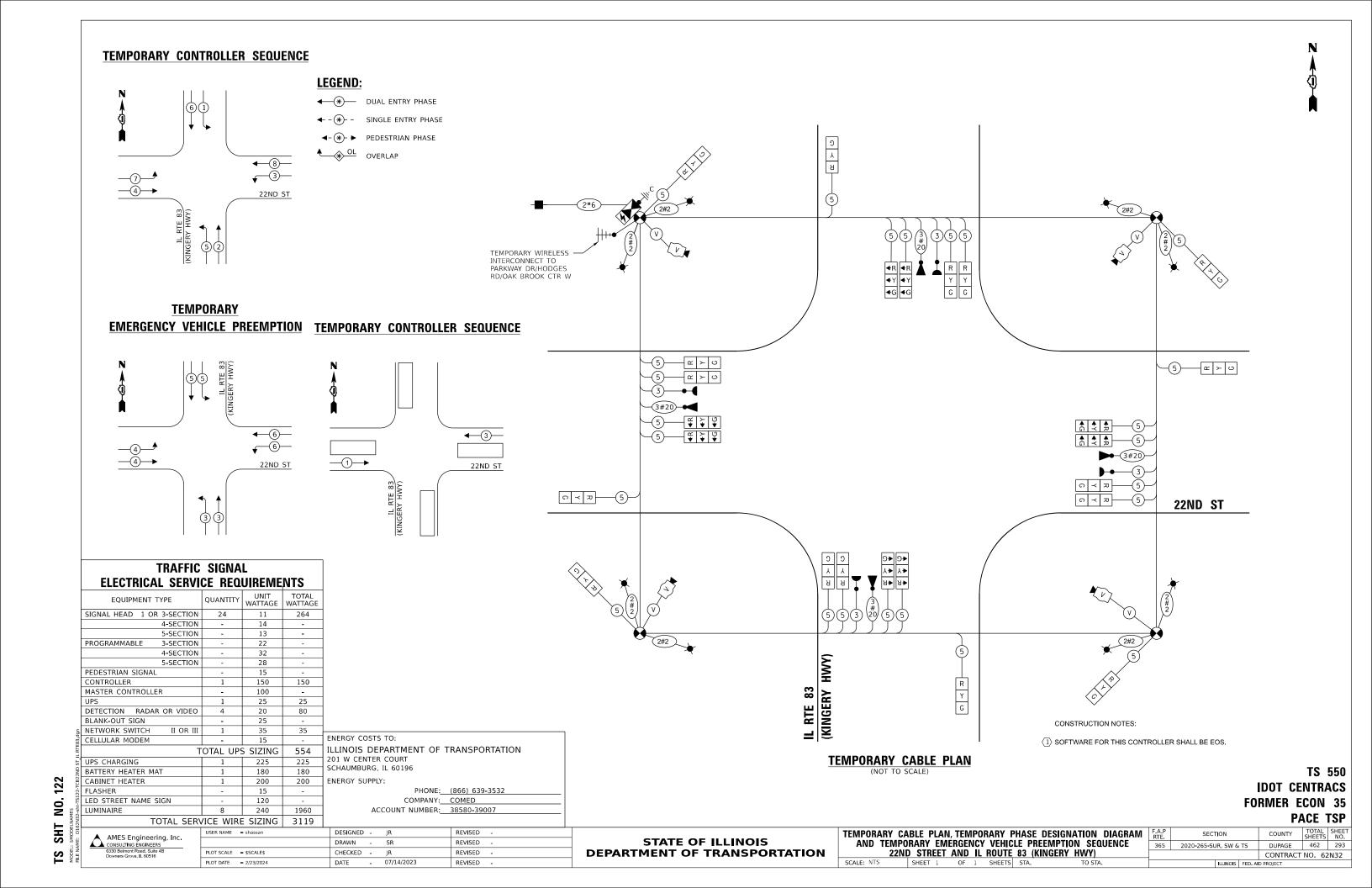
TS 550 IDOT CENTRACS FORMER ECON 35

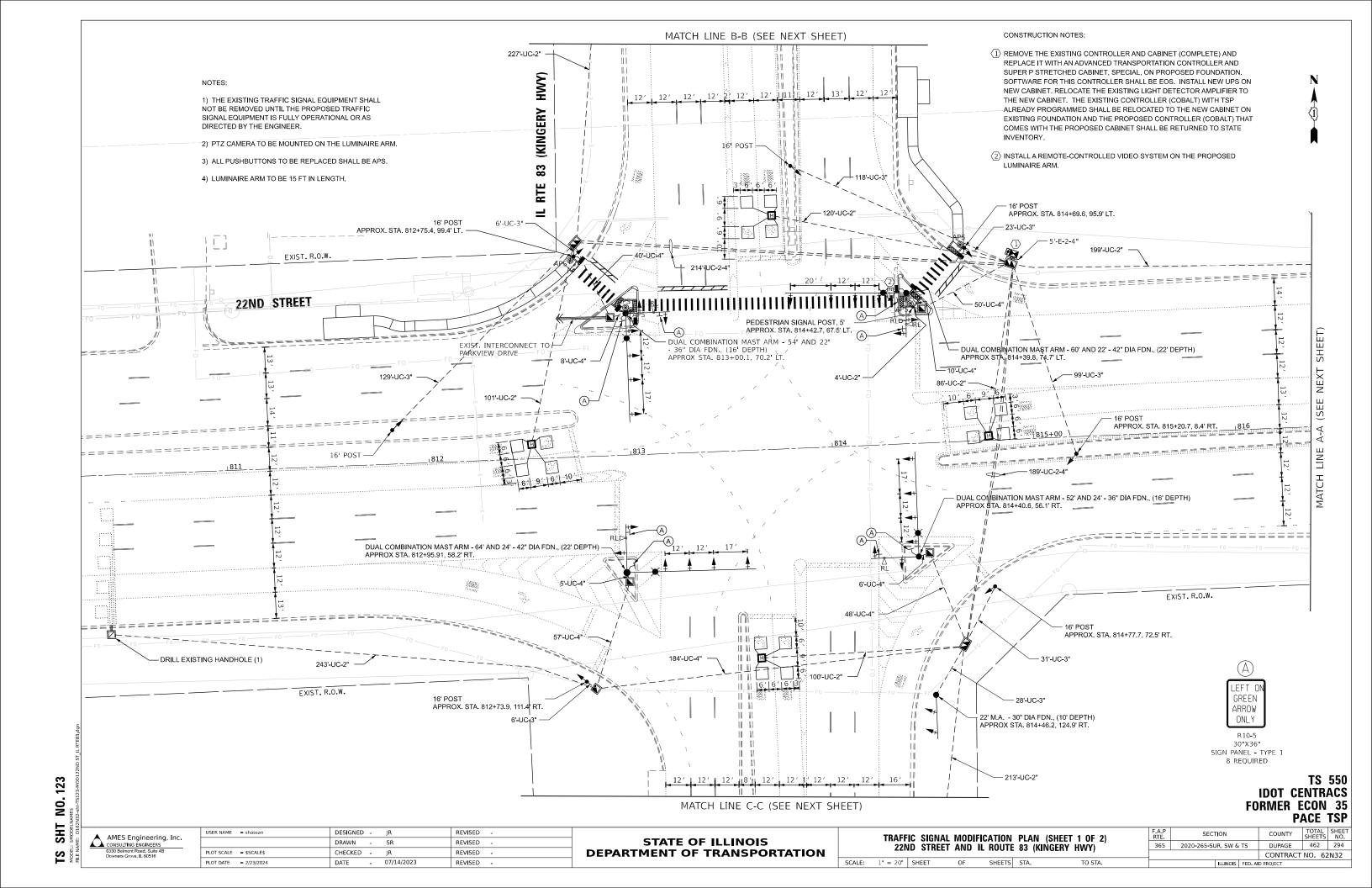
RTE 83 (KINGERY HWY) MATCH LINE B-B (SEE PREVIOUS SHEET) MATCH LINE C-C (SEE PREVIOUS SHEET) RTE 83 (KINGERY HWY)

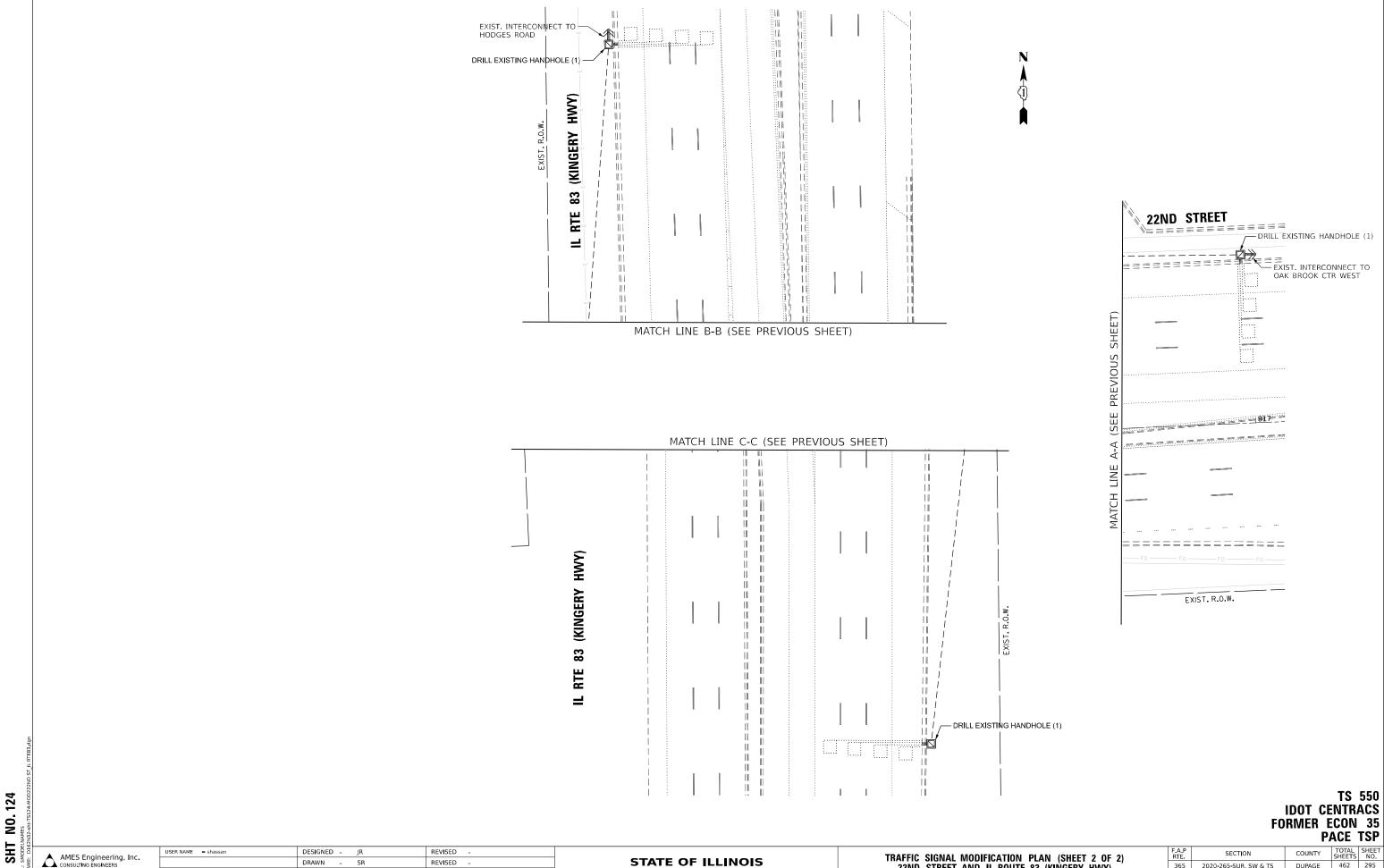
22ND STREET EXIST. R.O.W.

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

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







SHT

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

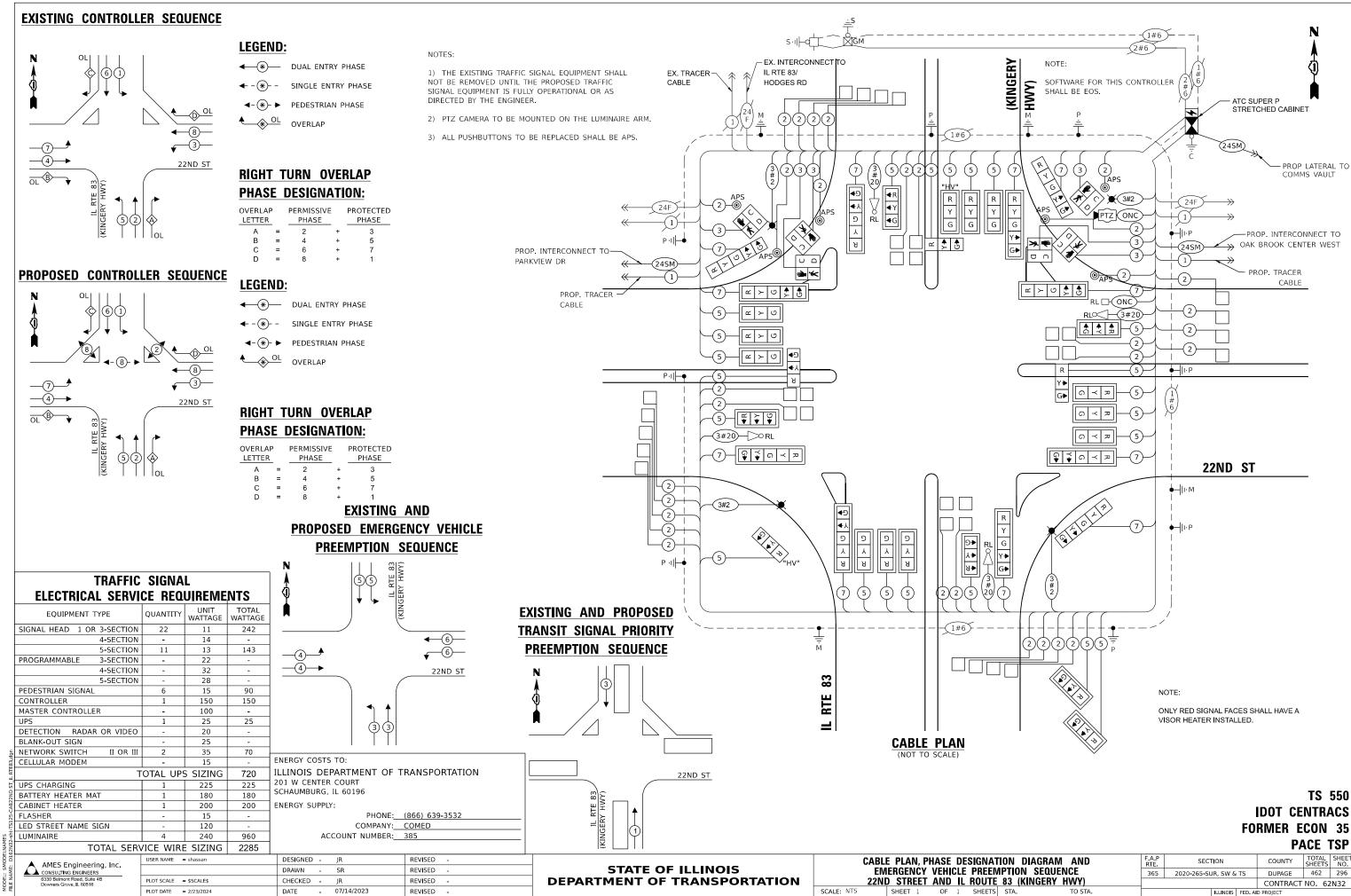
DRAWN - SR PLOT SCALE = \$SCALE\$ CHECKED - JR REVISED -PLOT DATE = 2/23/2024 - 07/14/2023 REVISED -DATE

DEPARTMENT OF TRANSPORTATION

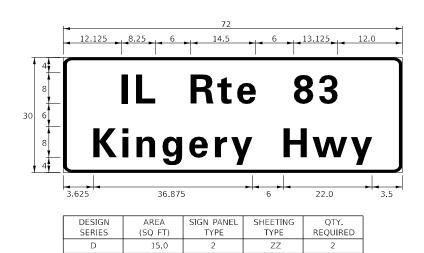
TRAFFIC SIGNAL MODIFICATION PLAN (SHEET 2 OF 2) 22ND STREET AND IL ROUTE 83 (KINGERY HWY) SCALE: 1" = 20' SHEET OF SHEETS STA.

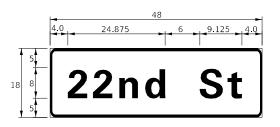
 F.A.P RTE.
 SECTION
 COUNTY
 TOTAL SHEETS
 SHEETS NO.

 365
 2020-265-SUR, SW & TS
 DUPAGE
 462
 295
 CONTRACT NO. 62N32



SIGN PANEL – TYPE 1 OR TYPE 2





| DESIGN | AREA | SIGN PANEL | SHEETING | QTY. |
|--------|---------|------------|----------|----------|
| SERIES | (SQ FT) | TYPE | TYPE | REQUIRED |
| D | 8.25 | 1 | ZZ | 2 |

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

SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|--|-----------|---------------|
| SIGN PANEL - TYPE 1 | SQ FT | 76.5 |
| SIGN PANEL - TYPE 2 | SQ FT | 30 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 1293 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 440 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 1113 |
| HANDHOLE | EACH | 5 |
| HEAVY-DUTY HANDHOLE | EACH | 4 |
| DOUBLE HANDHOLE | EACH | 3 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 1018 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 2452 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 7896 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 3284 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 10110 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 3033 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 7 |
| STEEL MAST ARM ASSEMBLY AND POLE, 22 FT. | EACH | 1 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 22 FT. AND 54 FT. | EACH | 1 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 22 FT. AND 60 FT. | EACH | 1 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 24 FT. AND 52 FT. | EACH | 1 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 24 FT. AND 64 FT. | EACH | 1 |
| CONCRETE FOUNDATION, TYPE A | FOOT | 28 |
| CONCRETE FOUNDATION, TYPE C | FOOT | 4 |
| CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER | FOOT | 10 |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 32 |
| CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER | FOOT | 44 |
| DRILL EXISTING HANDHOLE | EACH | 4 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 18 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 4 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 3 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 8 |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 6 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 20 |
| INDUCTIVE LOOP DETECTOR | EACH | 25 |
| DETECTOR LOOP, TYPE I | FOOT | 512 |
| TEMPORARY TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT | EACH | 4 |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT | EACH | 1 |
| REMOVE EXISTING EMERGENCY VEHICLE PRIORITY 3/3/1EM, PRASING ONLY | EACH | 1 |
| REMOVE EXISTING HANDHOLE | EACH | 7 |
| REMOVE EXISTING DOUBLE HANDHOLE | EACH | 3 |
| REMOVE EXISTING CONCRETE FOUNDATION | EACH | 8 |
| EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C | FOOT | 1399 |
| OUTDOOR RATED NETWORK CABLE | FOOT | 124 |
| | EACH | 1 |
| ADVANCED TRANSPORTATION CONTROLLER AND TYPE SUPER P STRETCHED CABINET (SPECIAL) REMOTE CONTROLLED VIDEO SYSTEM | EACH | 1 |
| | EACH | |
| PEDESTRIAN SIGNAL POST, 5 FT. | | 1 22 |
| LED SIGNAL FACE VISOR HEATER | EACH EACH | 33 |
| LAYER III (NETWORK) SWITCH | EACH | 1 |
| UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL | | - |
| ACCESSIBLE PEDESTRIAN SIGNALS CONCRETE FOUNDATION, TYPE A 42 INCH DIAMETER | EACH | 6 |
| CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER | FOOT | 4 |
| RELOCATE EXISTING LIGHTING CONTROLLER | EACH | 1 |
| TEMPORARY TRAFFIC SIGNAL TIMING | EACH | 1 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER, 48 PORT | EACH | 1 |
| RELOCATE EXISTING LUMINAIRE | EACH | 4 |

TS 550 IDOT CENTRACS FORMER ECON 35

S SHT NO. 126

S SHT NO. 126

S SHT NO. 126

S SHT NO. 126

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 48

Downers Grove II. 60516

Downers Grove III. 60516

Downers Grove III. 60516

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Downers Grove III. 60516

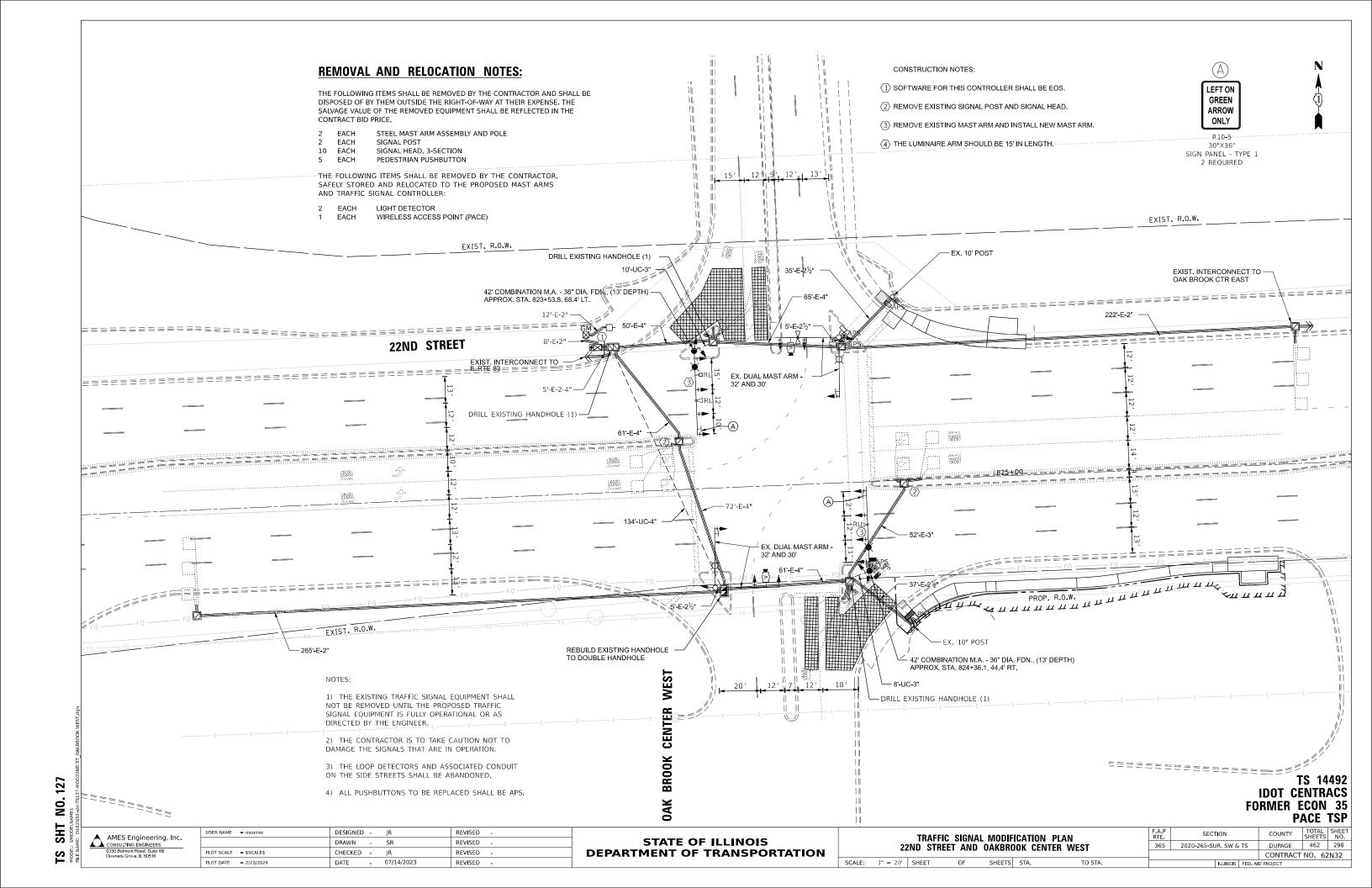
Downers Grove III. 60516

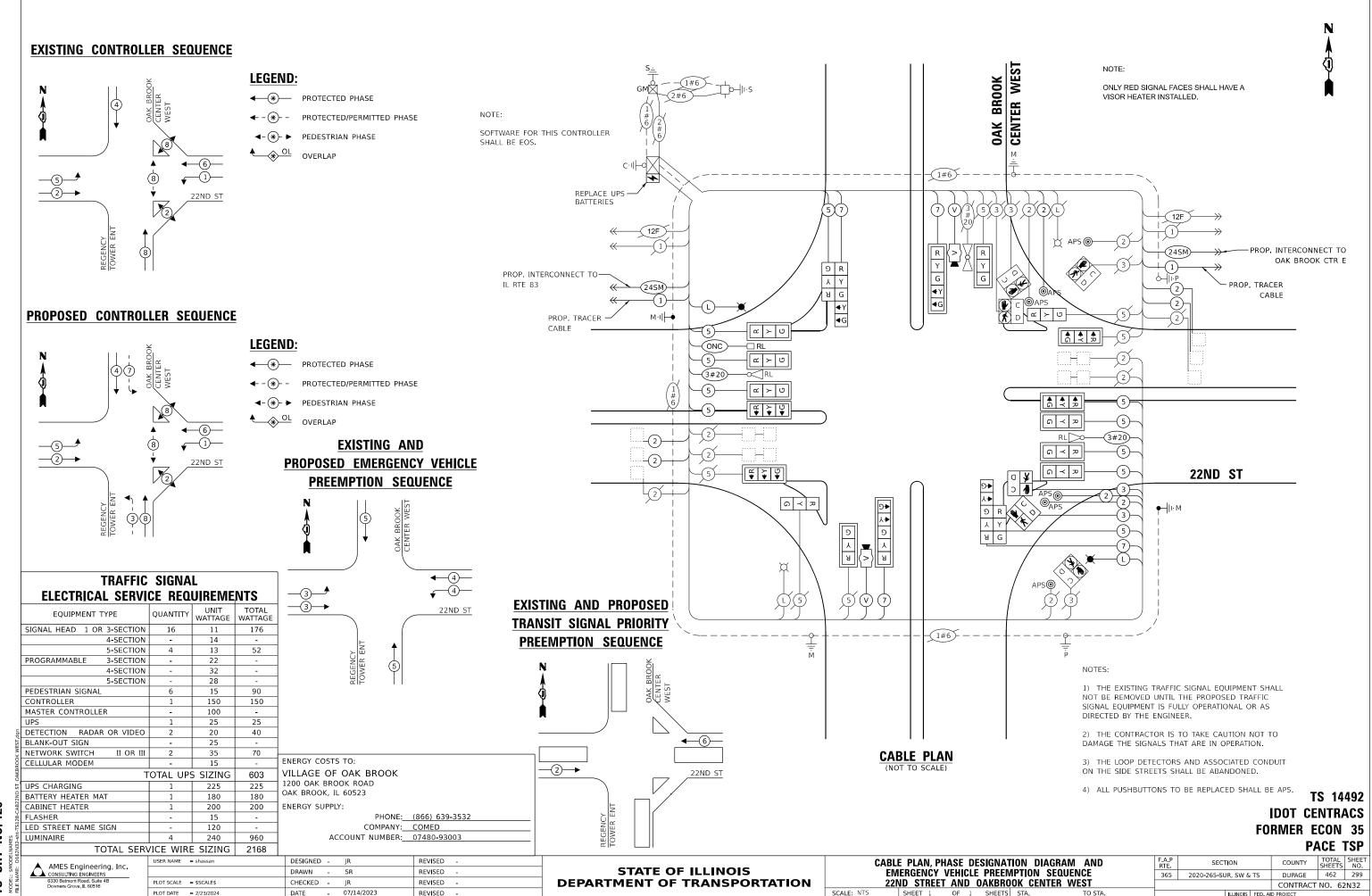
Downers Grove III. 60516

Downer Grove

| USER NAME = shassan | DESIGNED - JR | REVISED - |
|------------------------|-------------------|-----------|
| | DRAWN - SR | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - JR | REVISED - |
| PLOT DATE = 2/23/2024 | DATE - 07/14/2023 | REVISED - |

SCALE: NTS





SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|--|-------|---------------|
| SIGN PANEL - TYPE 1 | SQ FT | 15 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 18 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 134 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 664 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 520 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 2052 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 799 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 289 |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 42 FT. | EACH | 2 |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 26 |
| DRILL EXISTING HANDHOLE | EACH | 3 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 12 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 4 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 2 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 2 |
| PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 2 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 10 |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT | EACH | 2 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REMOVE EXISTING CONCRETE FOUNDATION | EACH | 4 |
| EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C | FOOT | 424 |
| LAYER II (DATA LINK) SWITCH | EACH | 1 |
| UPGRADE EXISTING CONTROLLER TO NTCIP (SPECIAL) | EACH | 1 |
| VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH | EACH | 2 |
| LED SIGNAL FACE VISOR HEATER | EACH | 20 |
| REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 6 |
| LED PEDESTRIAN SIGNAL MODULE REPLACEMENT | EACH | 4 |
| REBUILD EXISTING HANDHOLE TO DOUBLE HANDHOLE | EACH | 1 |
| CENTRACS LICENSE EXPANSION | EACH | 1 |
| FIBER OPTIC INTERCONNECT CENTER, 24 PORT | EACH | 1 |
| RELOCATE EXISTING LUMINAIRE | EACH | 2 |

TS 14492 IDOT CENTRACS FORMER ECON 35 PACE TSP

SCHEDULE OF QUANTITIES
22ND STREET AND OAKBROOK CENTER WEST

| SHEET | 1 OF | 1 SHEETS | STA. TO ST

SCALE: NTS