

**REMOVAL AND RELOCATION NOTES:**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 2 EACH SIGNAL POST
- 10 EACH SIGNAL HEAD, 3-SECTION
- 4 EACH PEDESTRIAN PUSHBUTTON
- 1 EACH CABINET (TS1)
- 1 EACH UNINTERRUPTIBLE POWER SUPPLY

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER
- 1 EACH LAYER II SWITCH (PACE)
- 1 EACH ACCESS POINT EQUIPMENT (PACE)
- 1 EACH WIRELESS ACCESS POINT (PACE)

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, AND SHALL BE DELIVERED BY THE CONTRACTOR TO IDOT'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY.

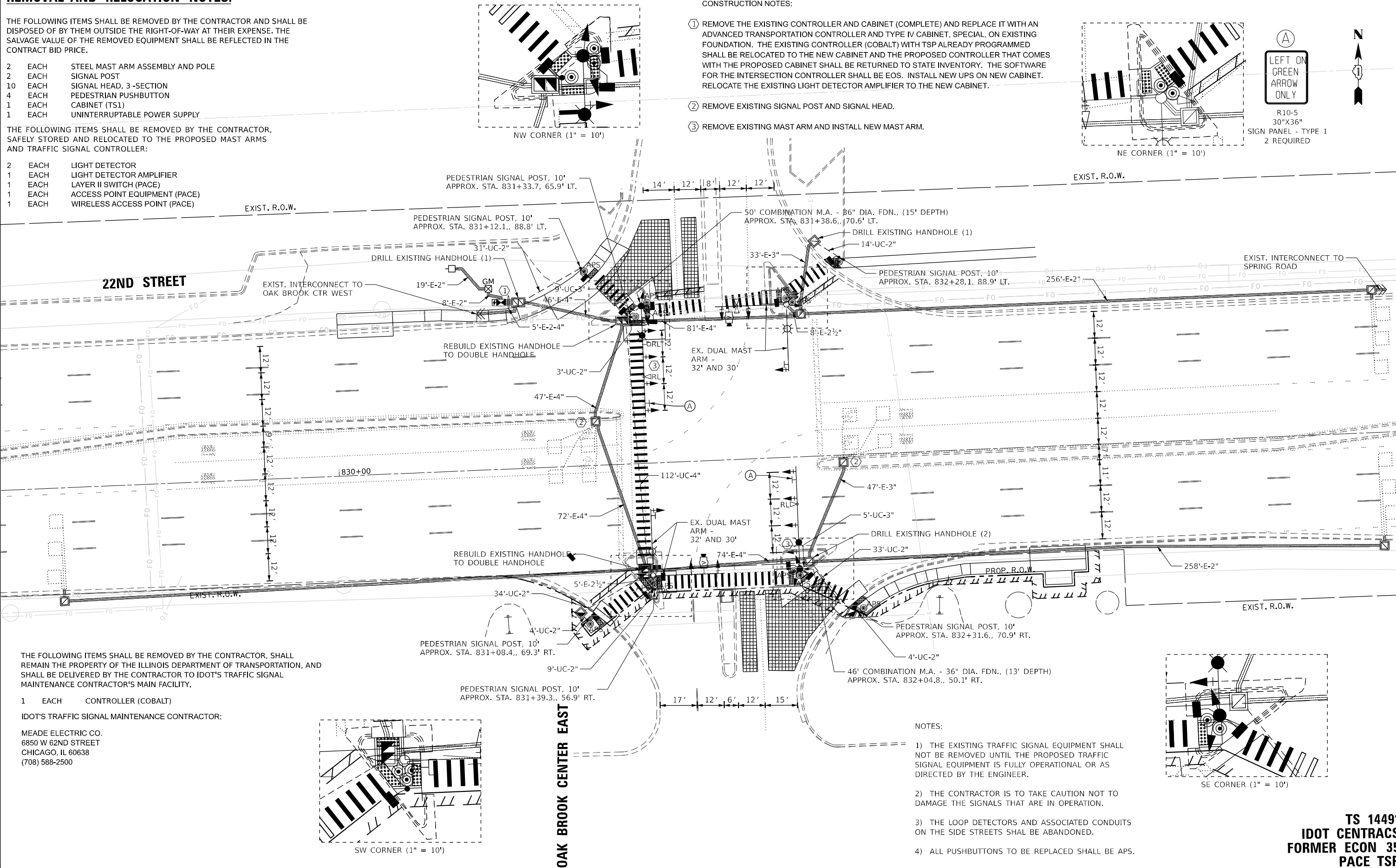
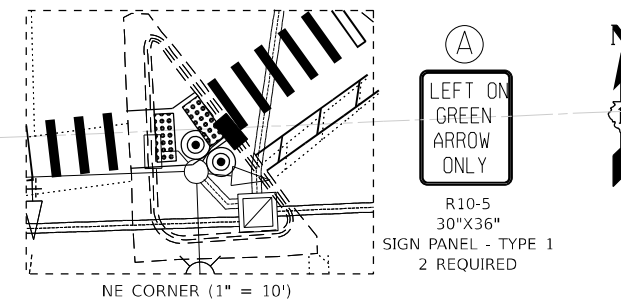
- 1 EACH CONTROLLER (COBALT)

IDOT'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR:

MEADE ELECTRIC CO.  
6850 W 62ND STREET  
CHICAGO, IL 60638  
(708) 588-2500

**CONSTRUCTION NOTES:**

- 1 REMOVE THE EXISTING CONTROLLER AND CABINET (COMPLETE) AND REPLACE IT WITH AN ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL, ON EXISTING FOUNDATION. THE EXISTING CONTROLLER (COBALT) WITH TSP ALREADY PROGRAMMED SHALL BE RELOCATED TO THE NEW CABINET AND THE PROPOSED CONTROLLER THAT COMES WITH THE PROPOSED CABINET SHALL BE RETURNED TO STATE INVENTORY. THE SOFTWARE FOR THE INTERSECTION CONTROLLER SHALL BE EOS. INSTALL NEW UPS ON NEW CABINET. RELOCATE THE EXISTING LIGHT DETECTOR AMPLIFIER TO THE NEW CABINET.
- 2 REMOVE EXISTING SIGNAL POST AND SIGNAL HEAD.
- 3 REMOVE EXISTING MAST ARM AND INSTALL NEW MAST ARM.



TS SHT NO. 130

MODEL NAME: 022322-01-TS130-00022ND ST OAKBROOK EAST.dgn  
FILE NAME: D:\2022-01-TS130-00022ND ST OAKBROOK EAST.dgn

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

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

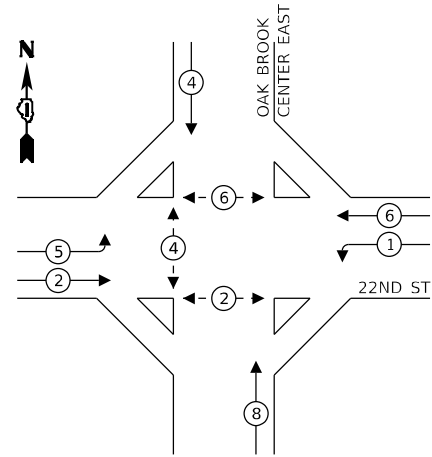
TRAFFIC SIGNAL MODIFICATION PLAN  
22ND STREET AND OAKBROOK CENTER EAST

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	301
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

TS 14491  
IDOT CENTRACS  
FORMER ECON 35  
PACE TSP

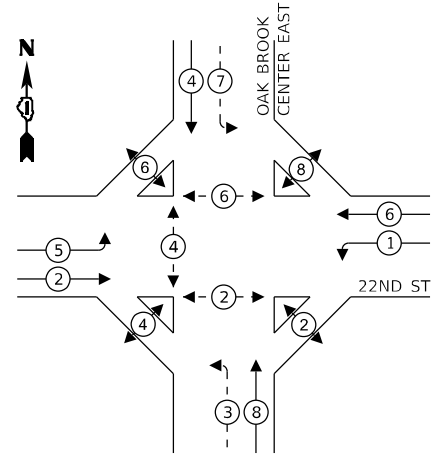
**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

- ← ⊙ ← PROTECTED PHASE
- ← ⊙ - PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL OVERLAP

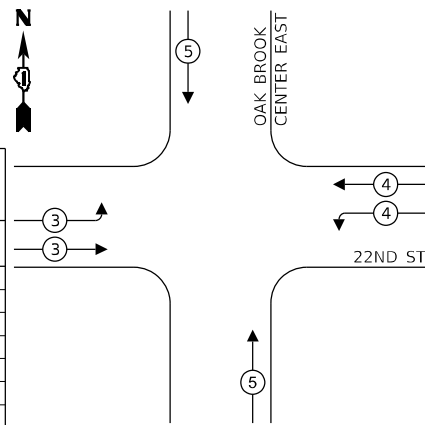
**PROPOSED CONTROLLER SEQUENCE**



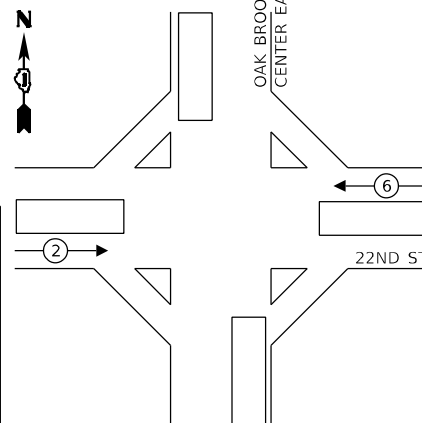
**LEGEND:**

- ← ⊙ ← PROTECTED PHASE
- ← ⊙ - PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL OVERLAP

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**

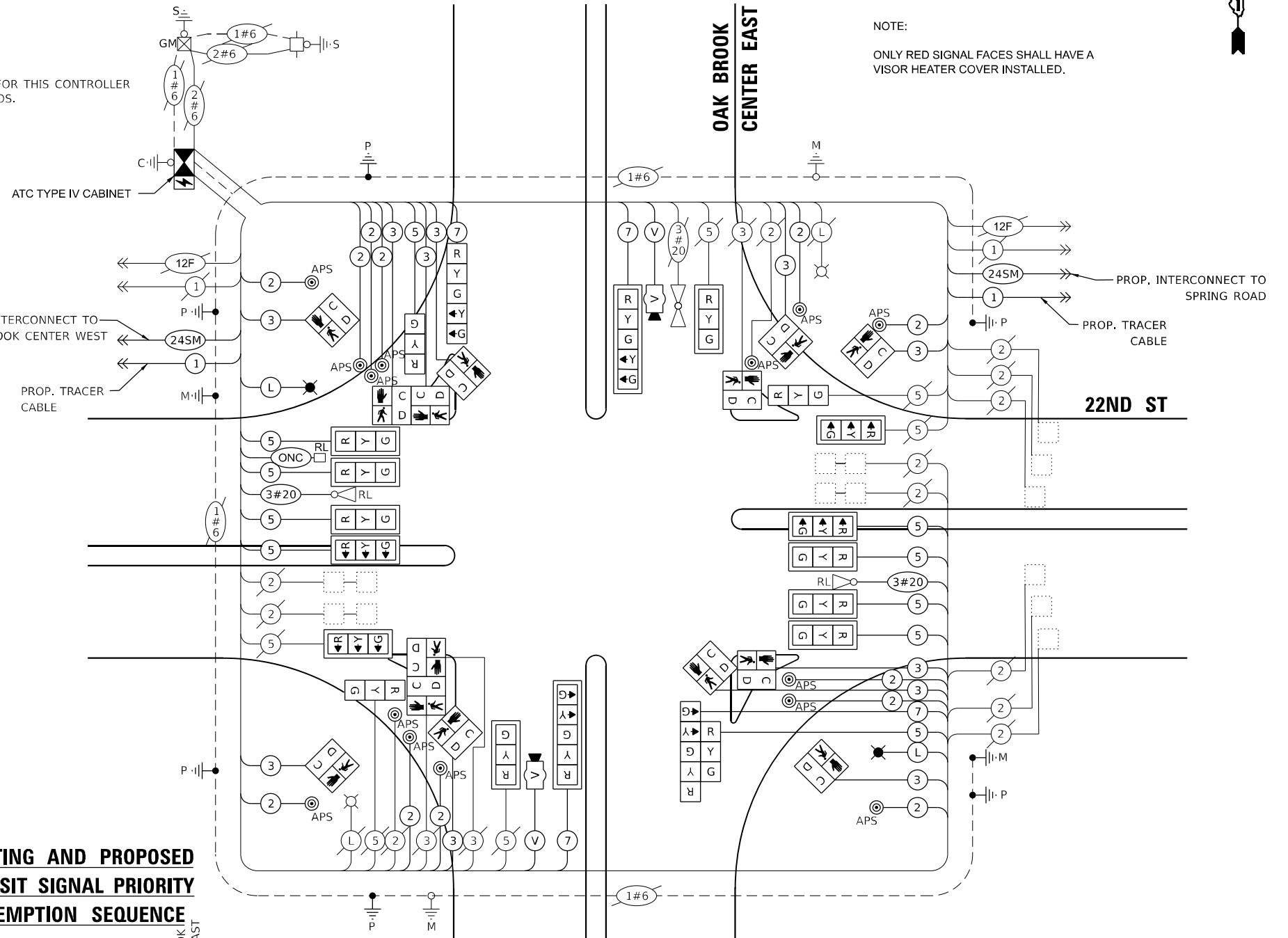


**EXISTING AND PROPOSED TRANSIT SIGNAL PRIORITY PREEMPTION SEQUENCE**



NOTE:

SOFTWARE FOR THIS CONTROLLER SHALL BE EOS.



NOTE:

ONLY RED SIGNAL FACES SHALL HAVE A VISOR HEATER COVER INSTALLED.

**CABLE PLAN**  
(NOT TO SCALE)

NOTES:

- 1) THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
- 2) THE CONTRACTOR IS TO TAKE CAUTION NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
- 3) THE LOOP DETECTORS AND ASSOCIATED CONDUITS ON THE SIDE STREETS SHALL BE ABANDONED.
- 4) ALL PUSHBUTTONS TO BE REPLACED SHALL BE APS.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	16	11	176
4-SECTION	-	14	-
5-SECTION	4	13	52
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL CONTROLLER	14	15	210
MASTER CONTROLLER	1	150	150
UPS	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
<b>TOTAL UPS SIZING</b>		<b>688</b>	
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	4	240	960
<b>TOTAL SERVICE WIRE SIZING</b>		<b>2253</b>	

ENERGY COSTS TO:

VILLAGE OF OAK BROOK  
1200 OAK BROOK ROAD  
OAK BROOK, IL 60523

ENERGY SUPPLY:

PHONE: (866) 639-3532  
COMPANY: COMED  
ACCOUNT NUMBER: 07480-93003

TS SHT NO. 131

MODEL: 1400BELMONT  
FILE NAME: D:\ENR2024\TS131-CAB22ND ST, OAKBROOK EAST.dgn

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

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND  
EMERGENCY VEHICLE PREEMPTION SEQUENCE  
22ND STREET AND OAKBROOK CENTER EAST

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	302
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

TS 14491  
IDOT CENTRACS  
FORMER ECON 35  
PACE TSP





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  
22ND STREET AND OAKBROOK CENTER EAST**

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	303
CONTRACT NO. 62N32			ILLINOIS FED. AID PROJECT	

**SCHEDULE OF QUANTITIES**

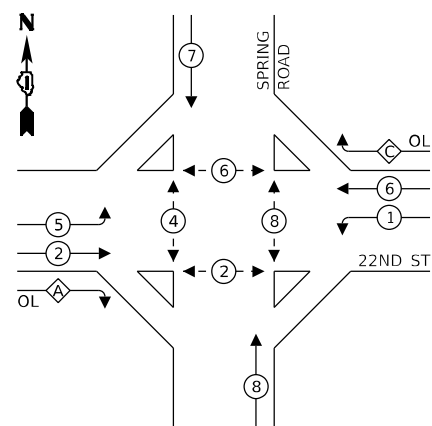
ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	15
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	132
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	14
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	112
HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2312
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2206
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2291
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	903
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1091
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28
DRILL EXISTING HANDHOLE	EACH	4
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, 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	11
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
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	2
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	462
LAYER II (DATALINK) SWITCH	EACH	1
PEDESTRIAN SIGNAL POST, 10'	EACH	6
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
LED SIGNAL FACE VISOR HEATER	EACH	20
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	14
CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER	FOOT	24
LED PEDESTRIAN SIGNAL MODULE REPLACEMENT	EACH	3
RELOCATE EXISTING LIGHTING CONTROLLER	EACH	1
REBUILD EXISTING HANDHOLE TO DOUBLE HANDHOLE	EACH	2
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1
RELOCATE EXISTING LUMINAIRE	EACH	2
LED SIGNAL MODULE REPLACEMENT	EACH	6

**TS 14491  
IDOT CENTRACS  
FORMER ECON 35  
PACE TSP**



**EXISTING AND PROPOSED TRANSIT  
SIGNAL PRIORITY PREEMPTION SEQUENCE**

**EXISTING CONTROLLER SEQUENCE**



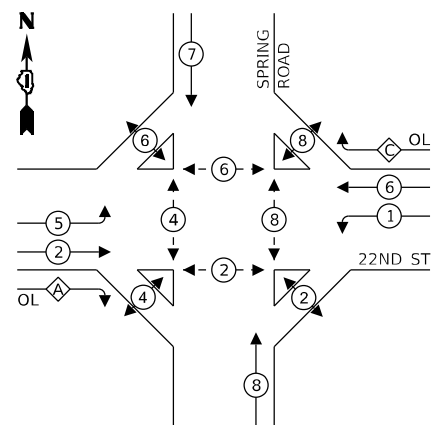
**LEGEND:**

- ← ⊙ ← PROTECTED PHASE
- ← ⊙ - PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL OVERLAP

**RIGHT TURN OVERLAP  
PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 8
C	= 6	+ 7

**PROPOSED CONTROLLER SEQUENCE**



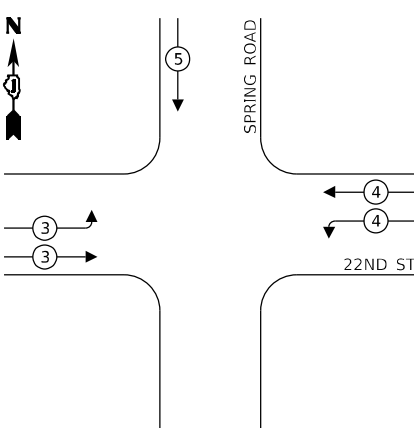
**LEGEND:**

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- ← ⊙ - PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL OVERLAP

**RIGHT TURN OVERLAP  
PHASE DESIGNATION:**

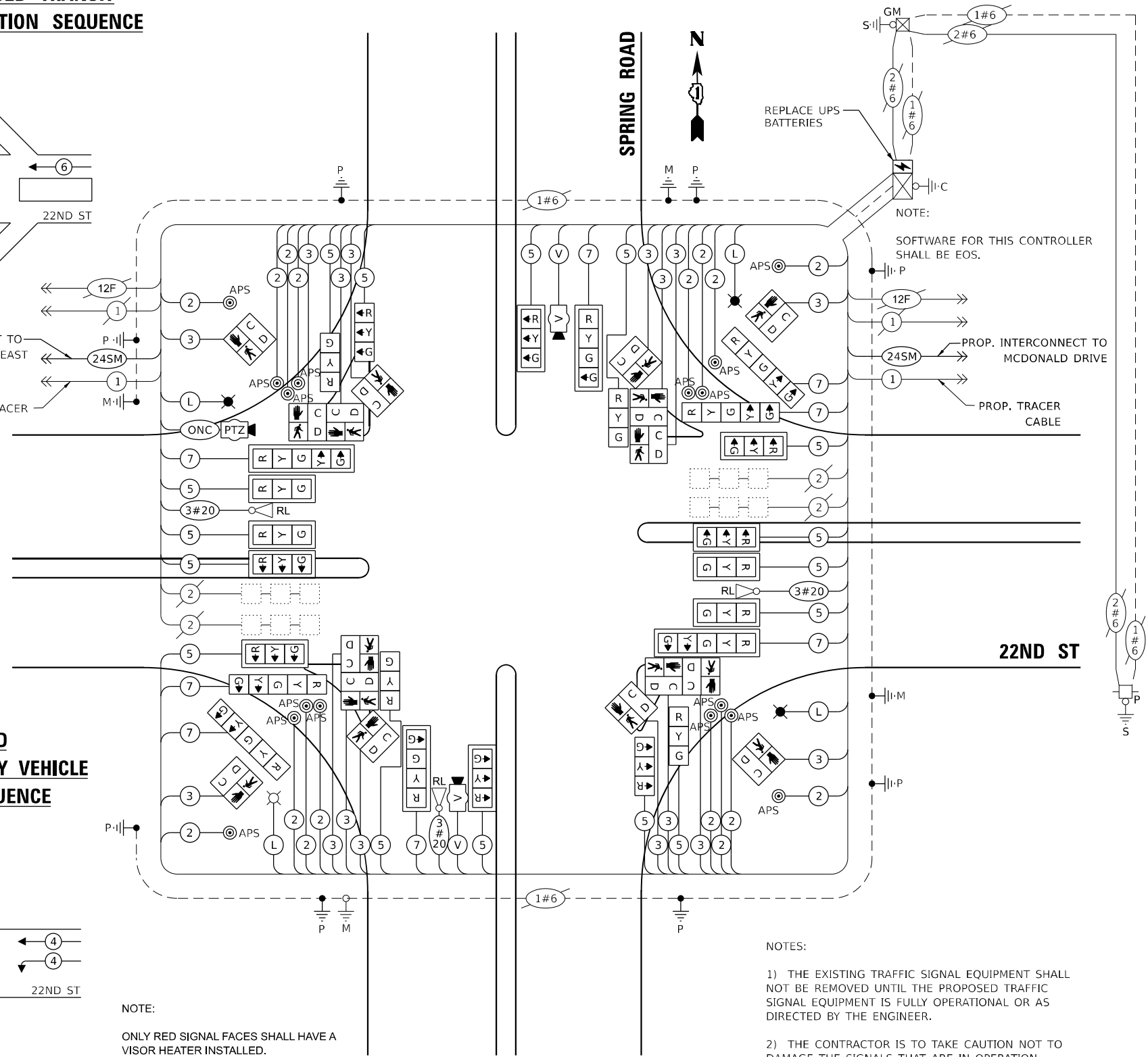
OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 8
C	= 6	+ 7

**EXISTING AND  
PROPOSED EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



NOTE:  
ONLY RED SIGNAL FACES SHALL HAVE A VISOR HEATER INSTALLED.

**CABLE PLAN  
(NOT TO SCALE)**



- NOTES:
- 1) THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
  - 2) THE CONTRACTOR IS TO TAKE CAUTION NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
  - 3) PTZ CAMERA TO BE MOUNTED ON THE LUMINAIRE ARM.
  - 4) ALL PUSHBUTTONS TO BE REPLACED SHALL BE APS.
  - 5) THE DETECTOR LOOPS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.

**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	16	11	176
4-SECTION	2	14	28
5-SECTION	6	13	78
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	16	15	240
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	2	35	70
CELLULAR MODEM	-	15	-
<b>TOTAL UPS SIZING</b>			<b>807</b>
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	4	240	960
<b>TOTAL SERVICE WIRE SIZING</b>			<b>2372</b>

ENERGY COSTS TO:  
VILLAGE OF OAK BROOK  
1200 OAK BROOK ROAD  
OAK BROOK, IL 60523

ENERGY SUPPLY:  
PHONE: (866) 639-3532  
COMPANY: COMED  
ACCOUNT NUMBER: 07480-93003

TS SHT NO. 134

MODEL: 1409BELMONT  
FILE NAME: D:\ENR22-08-TS134-CAB22ND ST, SPRING.dgn

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

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

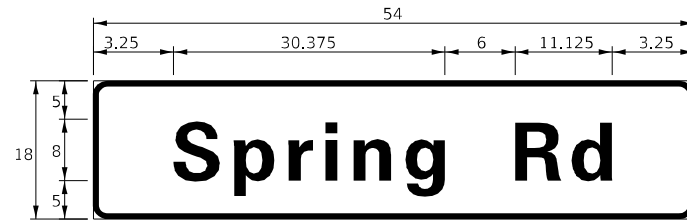
**CABLE PLAN, PHASE DESIGNATION DIAGRAM AND  
EMERGENCY VEHICLE PREEMPTION SEQUENCE  
22ND STREET AND SPRING ROAD**

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	305
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

**TS 14493  
IDOT CENTRACS  
FORMER ECON 35  
PACE TSP**

**SIGN PANEL – TYPE 1 OR TYPE 2**



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	2	ZZ	2

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	36
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	47
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	19
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	421
HANDHOLE	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3220
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3357
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3705
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1706
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1579
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 32 FT. AND 34 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	42
CONDUIT SPLICE	EACH	1
DRILL EXISTING HANDHOLE	EACH	5
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, 4-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-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	16
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	14
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	3
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	844
OUTDOOR RATED NETWORK CABLE	FOOT	232
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP (SPECIAL)	EACH	1
PEDESTRIAN SIGNAL POST, 10'	EACH	6
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	1
LED SIGNAL FACE VISOR HEATER	EACH	24
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	16
CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER	FOOT	24
REBUILD EXISTING HANDHOLE TO DOUBLE HANDHOLE	EACH	2
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1
RELOCATE EXISTING LUMINAIRE	EACH	2

TS SHT NO. 135

MODEL: 1400BELNAMES  
FILE NAME: D:\ENR22-ar-TS135-STR22ND ST\_SPRING.dgn

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAST ARM MOUNTED STREET NAME SIGNS AND  
SCHEDULE OF QUANTITIES  
22ND STREET AND SPRING ROAD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	306
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

**TS 14493  
IDOT CENTRACS  
FORMER ECON 35  
PACE TSP**

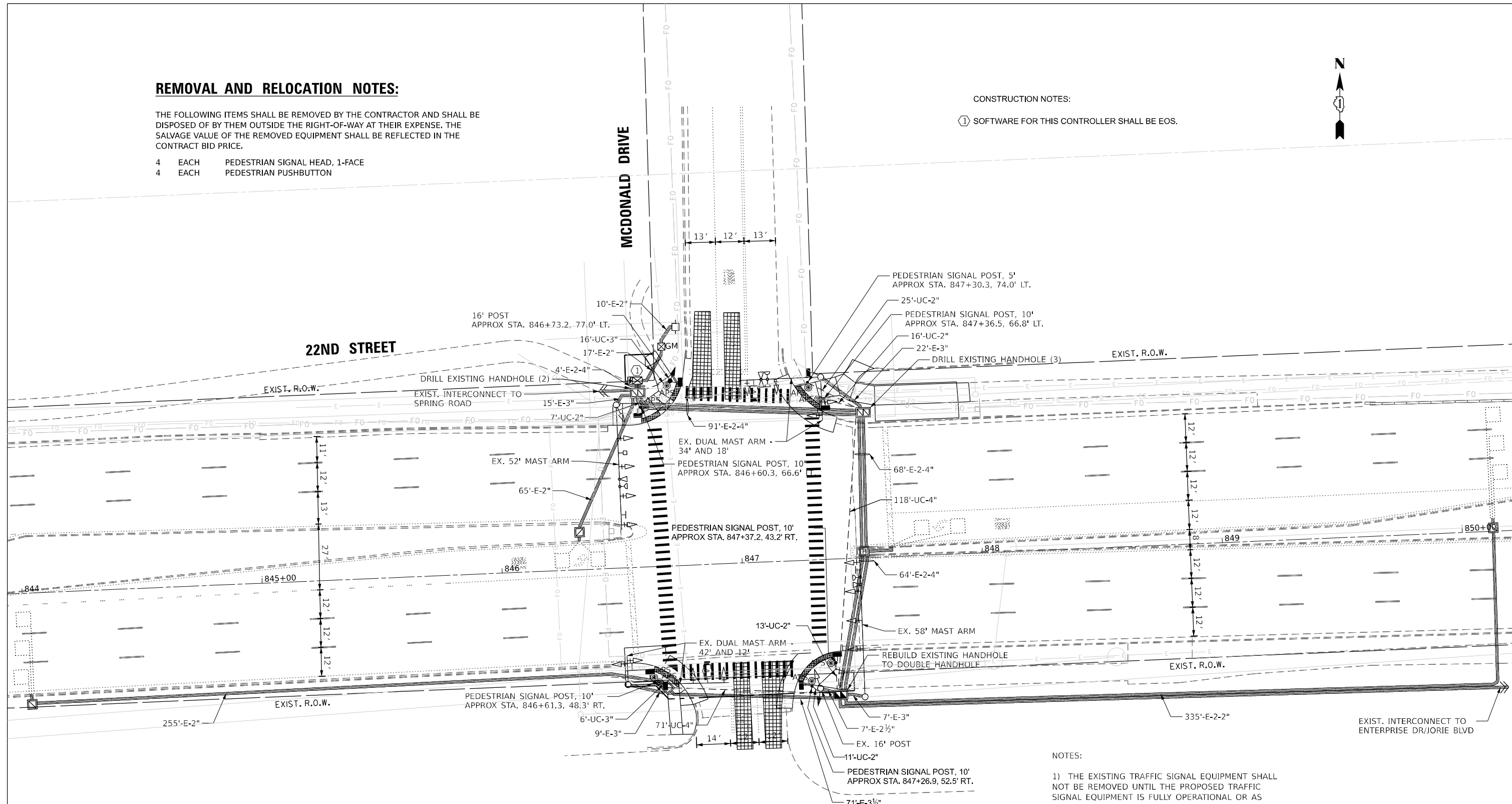
**REMOVAL AND RELOCATION NOTES:**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 4 EACH PEDESTRIAN PUSHBUTTON

CONSTRUCTION NOTES:

- ① SOFTWARE FOR THIS CONTROLLER SHALL BE EOS.



NOTES:

- 1) THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
- 2) THE CONTRACTOR IS TO TAKE CAUTION NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
- 3) THE LOOP DETECTORS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.
- 4) ALL PUSHBUTTONS TO BE REPLACED SHALL BE APS.

TS SHT NO. 136

MODEL NAME: D:\ENR22-21\TS136-40022ND ST\_MCDONALD.DWG

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

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

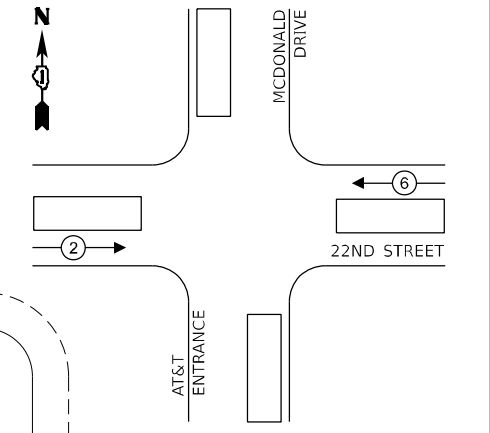
TRAFFIC SIGNAL MODIFICATION PLAN  
22ND STREET AND MCDONALD DRIVE

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

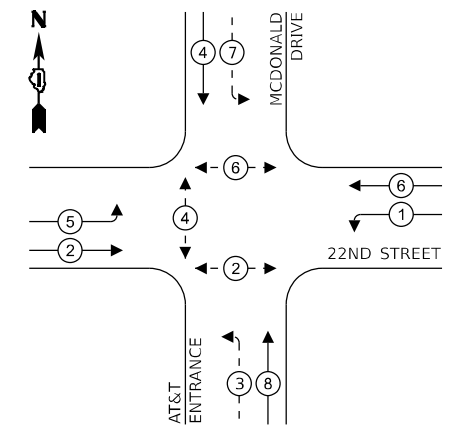
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	307
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

TS 14494  
IDOT CENTRACS  
FORMER ECON 35  
PACE TS

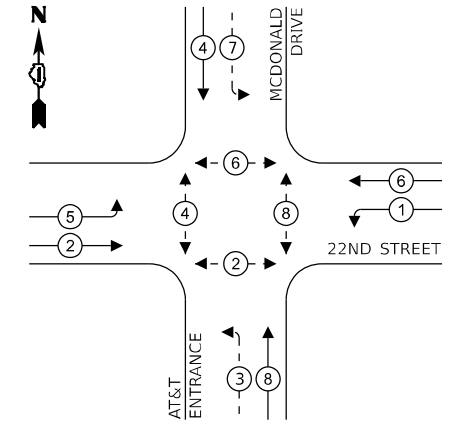
**EXISTING AND PROPOSED TRANSIT SIGNAL PRIORITY PREEMPTION SEQUENCE**



**EXISTING CONTROLLER SEQUENCE**



**PROPOSED CONTROLLER SEQUENCE**



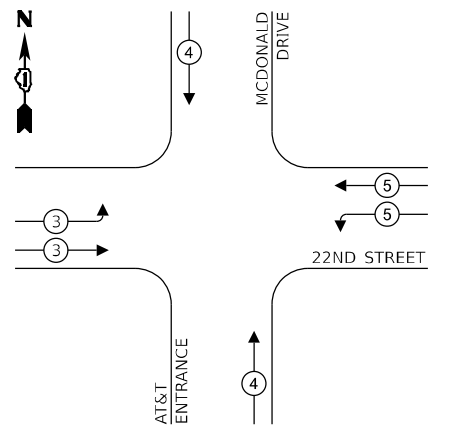
**LEGEND:**

- ← (⊙) ← PROTECTED PHASE
- ← (⊙) ← PROTECTED/PERMITTED PHASE
- ← (⊙) ← PEDESTRIAN PHASE
- ← (⊙) ← OVERLAP

**LEGEND:**

- ← (⊙) ← PROTECTED PHASE
- ← (⊙) ← PROTECTED/PERMITTED PHASE
- ← (⊙) ← PEDESTRIAN PHASE
- ← (⊙) ← OVERLAP

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



ENERGY COSTS TO:  
**VILLAGE OF OAK BROOK**  
 1200 OAK BROOK ROAD  
 OAK BROOK, IL 60523

ENERGY SUPPLY:  
 PHONE: (866) 639-3532  
 COMPANY: COMED  
 ACCOUNT NUMBER: 07480-93003

NOTE:  
 SOFTWARE FOR THIS CONTROLLER SHALL BE EOS.

NOTE:  
 ONLY RED SIGNAL FACES SHALL HAVE A VISOR HEATER INSTALLED.

**CABLE PLAN**  
 (NOT TO SCALE)

**NOTES:**

- 1) THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
- 2) THE CONTRACTOR IS TO TAKE CAUTION NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
- 3) THE LOOP DETECTORS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.
- 4) ALL PUSHBUTTONS TO BE REPLACED SHALL BE APS.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	16	11	176
4-SECTION	-	14	-
5-SECTION	4	13	52
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	2	35	70
CELLULAR MODEM	-	15	-
<b>TOTAL UPS SIZING</b>		<b>633</b>	
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
<b>TOTAL SERVICE WIRE SIZING</b>		<b>1238</b>	

TS SHT NO. 137

MODEL: 1408BELMAME  
 FILE NAME: D:\ENR22-265-SUR-TS137-CAB22ND ST, MCDONALD.DWG

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

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

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

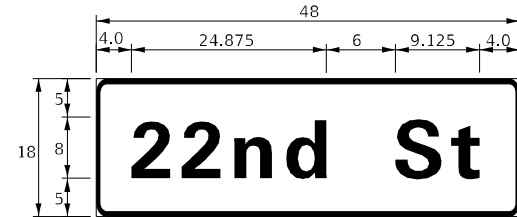
**CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE**  
**22ND STREET AND MCDONALD DRIVE**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	308
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

**TS 14494**  
**IDOT CENTRACS**  
**FORMER ECON 35**  
**PACE TSP**

**SIGN PANEL – TYPE 1 OR TYPE 2**



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

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	8.25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	72
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	22
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	189
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1632
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1537
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	333
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2387
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1069
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	5
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	8
INDUCTIVE LOOP DETECTOR	EACH	4
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	5
PEDESTRIAN SIGNAL POST, 5'	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	8
CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER	FOOT	24
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	18

TS SHT NO. 138

MODEL: 1409BELMAME  
FILE NAME: D:\ENR22-ar\TS138-STR22ND ST\_MCDONALD.dwg

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES  
22ND STREET AND MCDONALD DRIVE**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	309
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

**TS 14494  
IDOT CENTRACS  
FORMER ECON 35**



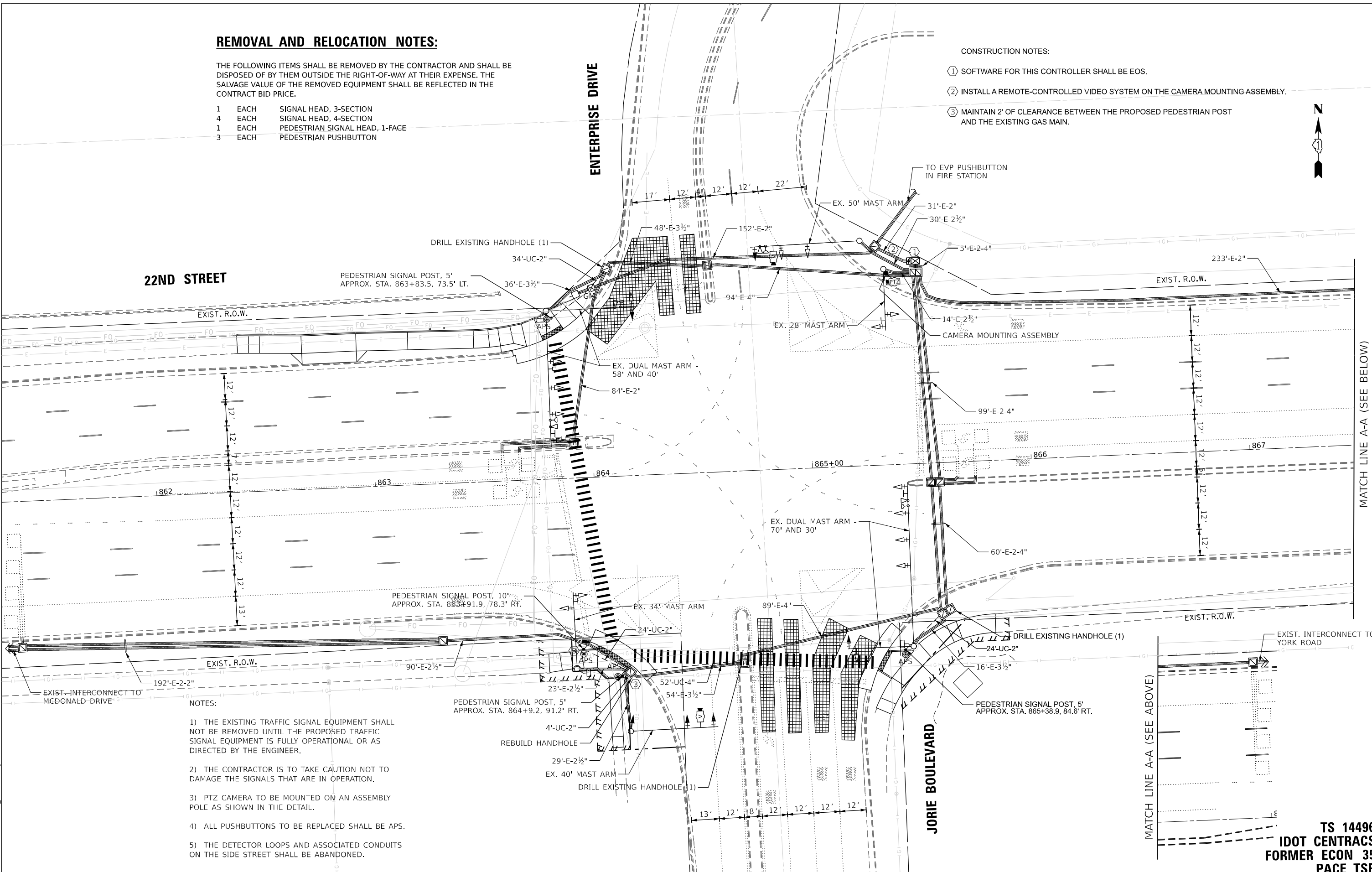
**REMOVAL AND RELOCATION NOTES:**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH SIGNAL HEAD, 3-SECTION
- 4 EACH SIGNAL HEAD, 4-SECTION
- 1 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 3 EACH PEDESTRIAN PUSHBUTTON

**CONSTRUCTION NOTES:**

- ① SOFTWARE FOR THIS CONTROLLER SHALL BE EOS.
- ② INSTALL A REMOTE-CONTROLLED VIDEO SYSTEM ON THE CAMERA MOUNTING ASSEMBLY.
- ③ MAINTAIN 2' OF CLEARANCE BETWEEN THE PROPOSED PEDESTRIAN POST AND THE EXISTING GAS MAIN.



- NOTES:**
- 1) THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
  - 2) THE CONTRACTOR IS TO TAKE CAUTION NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
  - 3) PTZ CAMERA TO BE MOUNTED ON AN ASSEMBLY POLE AS SHOWN IN THE DETAIL.
  - 4) ALL PUSHBUTTONS TO BE REPLACED SHALL BE APS.
  - 5) THE DETECTOR LOOPS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.

**TS SHT NO. 139**

MODEL NAME: 62N332-2024-00222ND ST ENTERPRISE.dgn  
 FILE NAME: D:\2024\62N332-2024-00222ND ST ENTERPRISE.dgn

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

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

**TRAFFIC SIGNAL MODIFICATION PLAN**  
**22ND STREET AND ENTERPRISE DRIVE/JORIE BOULEVARD**

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

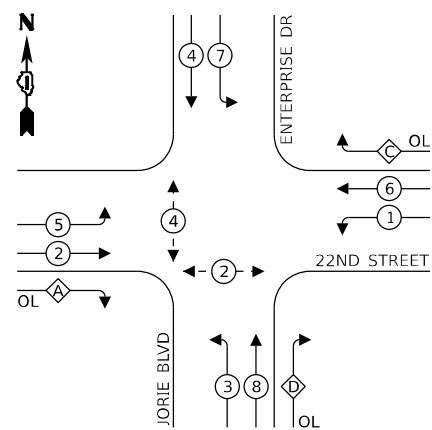
F.A.P. RTE. 365	SECTION 2020-265-SUR, SW & TS	COUNTY DUPAGE	TOTAL SHEETS 462	SHEET NO. 310
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

**TS 14496**  
**IDOT CENTRACS**  
**FORMER ECON TSP**  
**PACE 35**

MATCH LINE A-A (SEE ABOVE)

MATCH LINE A-A (SEE BELOW)

**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



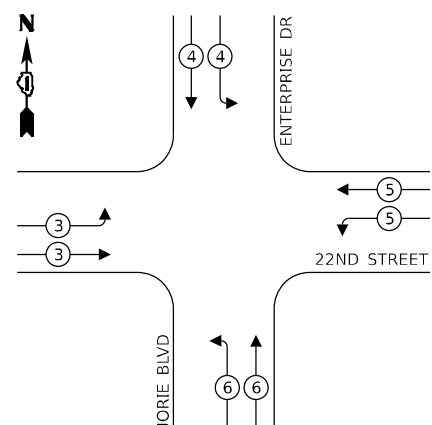
**LEGEND:**

- ⊙ - PROTECTED PHASE
- ⊙ - - - PROTECTED/PERMITTED PHASE
- ⊙ - ⊙ - PEDESTRIAN PHASE
- ⊙ - ⊙ - OVERLAP

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A =	2 +	8
C =	6 +	4
D =	8 +	1

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

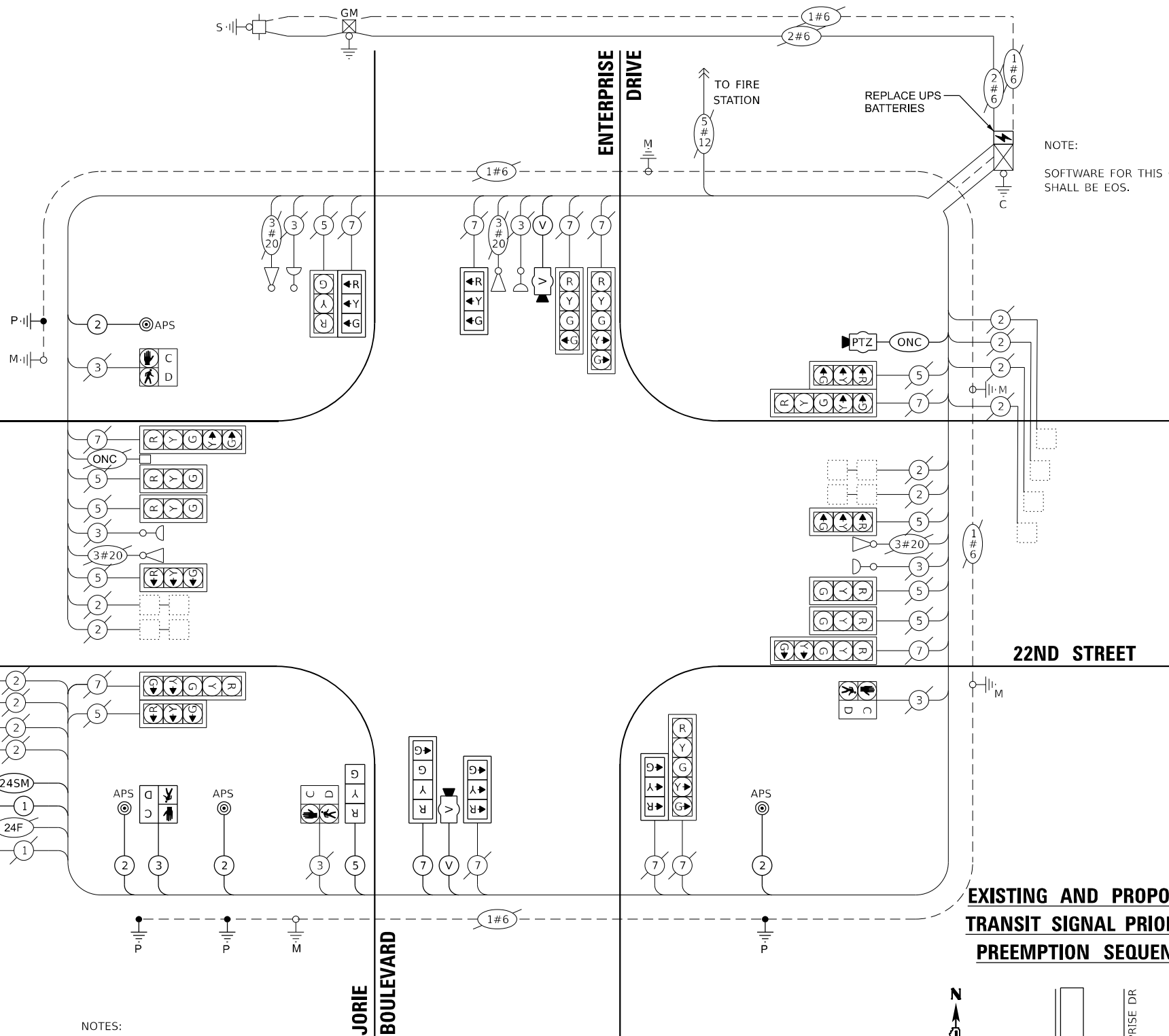
EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	14	11	154
4-SECTION	2	14	28
5-SECTION	6	13	78
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL CONTROLLER	4	15	60
MASTER CONTROLLER	1	150	150
UPS	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	2	35	70
CELLULAR MODEM	1	15	15
<b>TOTAL UPS SIZING</b>		<b>620</b>	
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
<b>TOTAL SERVICE WIRE SIZING</b>		<b>1225</b>	

**ENERGY COSTS TO:**

VILLAGE OF OAK BROOK  
1200 OAK BROOK ROAD  
OAK BROOK, IL 60523

**ENERGY SUPPLY:**

PHONE: (866) 639-3532  
COMPANY: COMED  
ACCOUNT NUMBER: 07480-93003



**CABLE PLAN (NOT TO SCALE)**

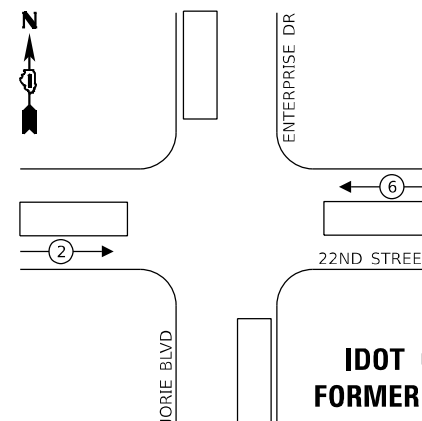
**NOTES:**

- 1) THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
- 2) THE CONTRACTOR IS TO TAKE CAUTION NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
- 3) PTZ CAMERA TO BE MOUNTED ON AN ASSEMBLY POLE AS SHOWN IN THE DETAIL.
- 4) ALL PUSHBUTTONS TO BE REPLACED SHALL BE APS.
- 5) THE DETECTOR LOOPS AND ASSOCIATED CONDUITS ON THE SIDE STREET SHALL BE ABANDONED.

**NOTE:**

ONLY RED SIGNAL FACES SHALL HAVE A VISOR HEATER INSTALLED.

**EXISTING AND PROPOSED TRANSIT SIGNAL PRIORITY PREEMPTION SEQUENCE**



TS SHT NO. 140

MODEL: 140BELMONT  
FILE NAME: D:\ENR22-20-1140-CAB22ND ST ENTERPRISE.dgn

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

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND  
EMERGENCY VEHICLE PREEMPTION SEQUENCE  
22ND STREET AND ENTERPRISE DRIVE/JORIE BOULEVARD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	311
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

TS 14496  
IDOT CENTRACS  
FORMER ECON 35  
PACE TSP



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  
22ND STREET AND ENTERPRISE DRIVE/JORIE BOULEVARD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	312
			CONTRACT NO. 62N32	
			ILLINOIS FED. AID PROJECT	

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	86
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	52
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1223
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	403
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	398
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	441
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1043
DRILL EXISTING HANDHOLE	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	5
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	79
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) 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
LED SIGNAL FACE VISOR HEATER	EACH	22
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER	FOOT	16
LED PEDESTRIAN SIGNAL MODULE REPLACEMENT	EACH	3
CAMERA MOUNTING ASSEMBLY	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1
LED SIGNAL MODULE REPLACEMENT	EACH	16

**TS 14496  
IDOT CENTRACS  
FORMER ECON 35  
PACE TSP**

**REMOVAL AND RELOCATION NOTES:**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH TRAFFIC SIGNAL POST
- 4 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 8 EACH PEDESTRIAN PUSHBUTTON
- 1 EACH CABINET (TS1)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY
- 12 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 1 EACH LIGHT DETECTOR AMPLIFIER
- 1 EACH LAYER II SWITCH (PAGE)
- 1 EACH ACCESS POINT EQUIPMENT (PAGE)

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, AND SHALL BE DELIVERED BY THE CONTRACTOR TO IDOT'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY.

- 1 EACH CONTROLLER (COBALT)

IDOT'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR:  
 MEADE ELECTRIC CO.  
 6850 W 62ND STREET  
 CHICAGO, IL 60638  
 (708) 588-2500

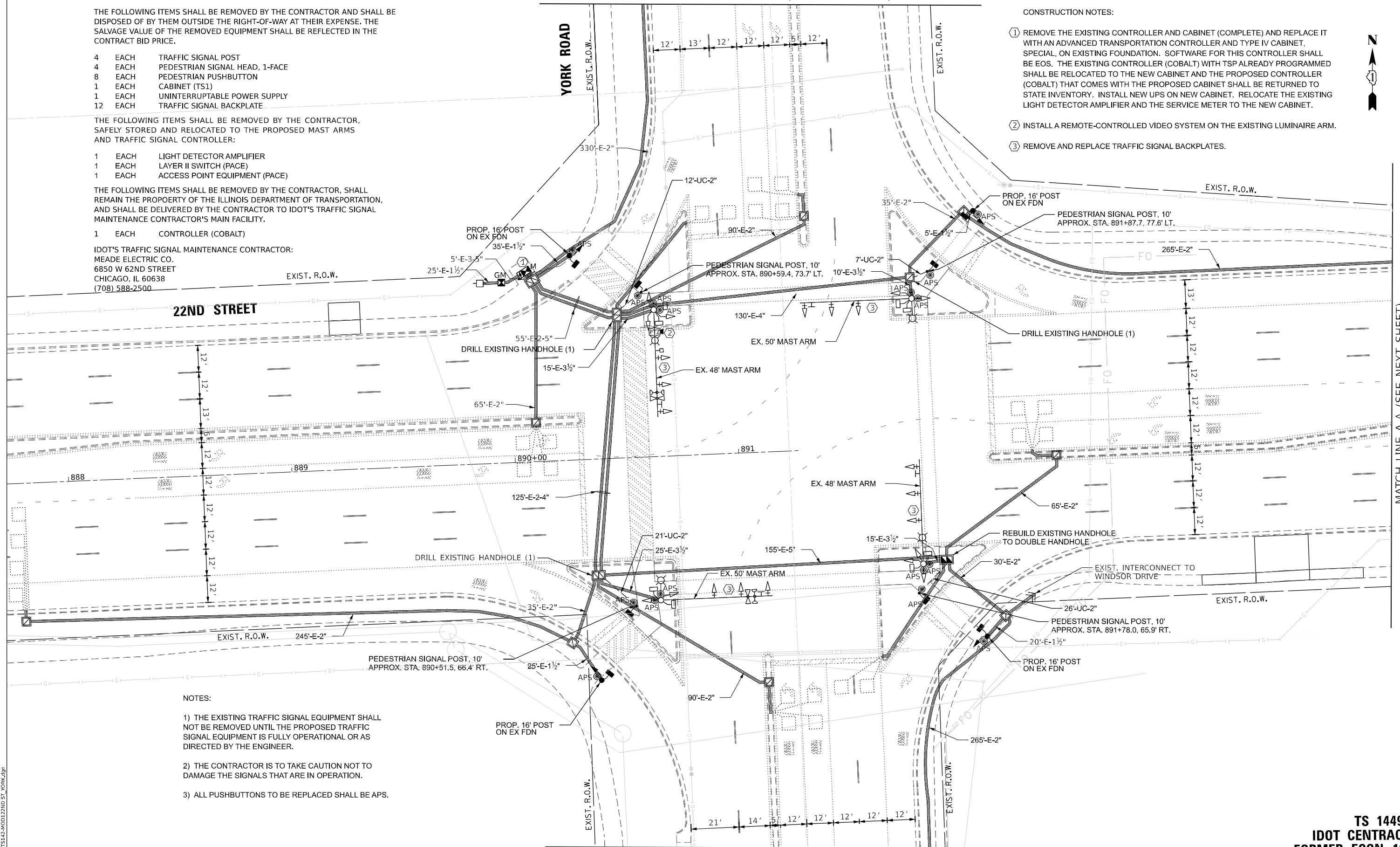
**CONSTRUCTION NOTES:**

- 1 REMOVE THE EXISTING CONTROLLER AND CABINET (COMPLETE) AND REPLACE IT WITH AN ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL, ON EXISTING FOUNDATION. SOFTWARE FOR THIS CONTROLLER SHALL BE EOS. THE EXISTING CONTROLLER (COBALT) WITH TSP ALREADY PROGRAMMED SHALL BE RELOCATED TO THE NEW CABINET AND THE PROPOSED CONTROLLER (COBALT) THAT COMES WITH THE PROPOSED CABINET SHALL BE RETURNED TO STATE INVENTORY. INSTALL NEW UPS ON NEW CABINET. RELOCATE THE EXISTING LIGHT DETECTOR AMPLIFIER AND THE SERVICE METER TO THE NEW CABINET.
- 2 INSTALL A REMOTE-CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 3 REMOVE AND REPLACE TRAFFIC SIGNAL BACKPLATES.



MATCH LINE B-B (SEE NEXT SHEET)

MATCH LINE C-C (SEE NEXT SHEET)



**NOTES:**

- 1) THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
- 2) THE CONTRACTOR IS TO TAKE CAUTION NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
- 3) ALL PUSHBUTTONS TO BE REPLACED SHALL BE APS.

TS SHT NO. 142

MODEL: 1400BENAMES  
 FILE NAME: D:\2022-2023\TS142-001\22ND ST\_YORK.dgn

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

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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN (SHEET 1 OF 2)  
 22ND STREET AND YORK ROAD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	313
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

**TS 14495  
 IDOT CENTRACS  
 FORMER ECON 101  
 PACE TSP**

MATCH LINE A-A (SEE NEXT SHEET)

TS SHT NO. 143

MODEL NAME: D:\B2024\TS143\MOD2\_22ND ST\_YORK.dgn

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

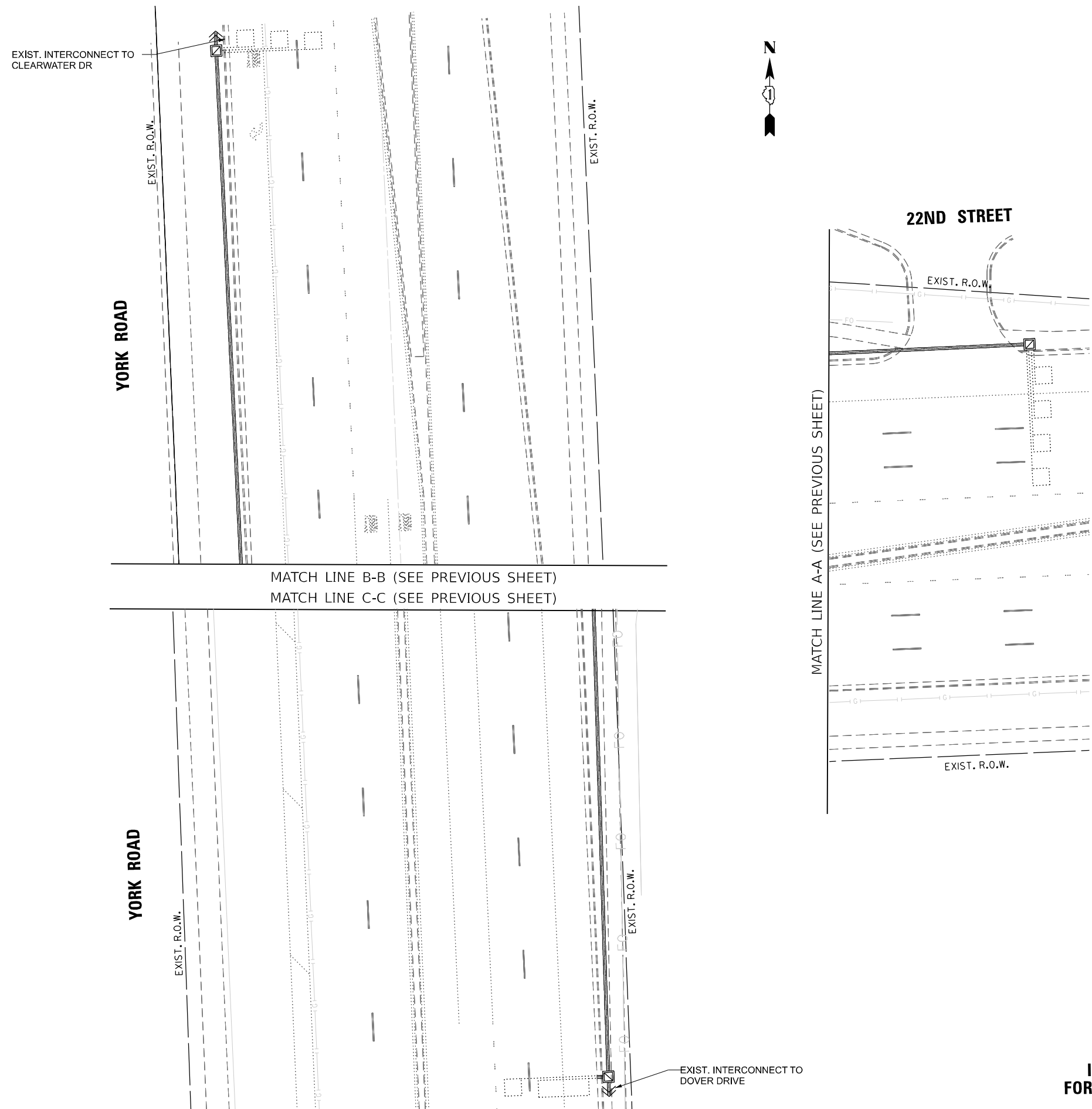
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN (SHEET 2 OF 2)  
22ND STREET AND YORK ROAD**

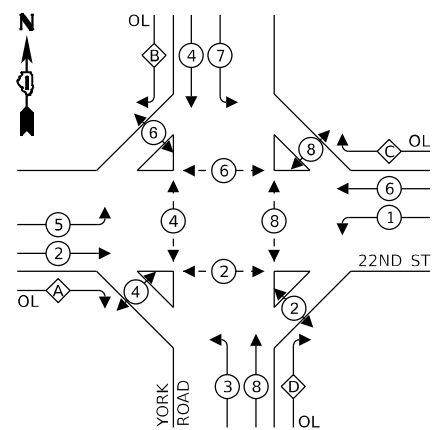
SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	314
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

**TS 14495  
IDOT CENTRACS  
FORMER ECON 101  
PACE TSP**



**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



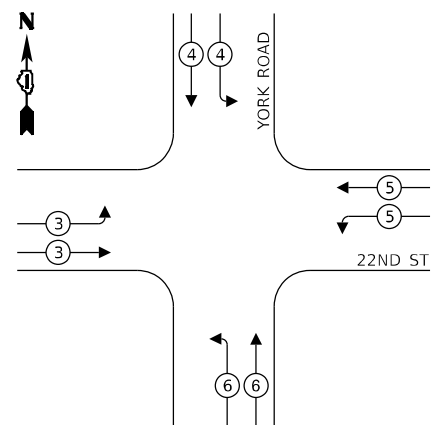
**LEGEND:**

- ⊙ - PROTECTED PHASE
- ⊙ - PROTECTED/PERMITTED PHASE
- ⊙ - PEDESTRIAN PHASE
- ⊙ - OVERLAP

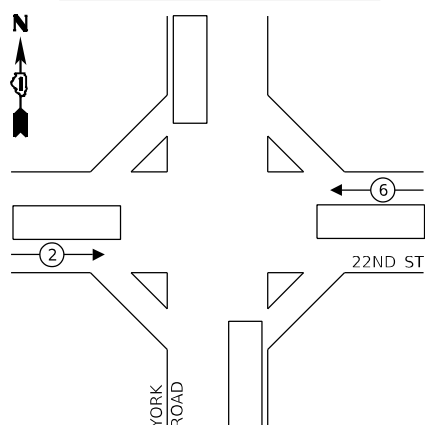
**RIGHT TURN OVERLAP PHASE DESIGNATION:**

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

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**

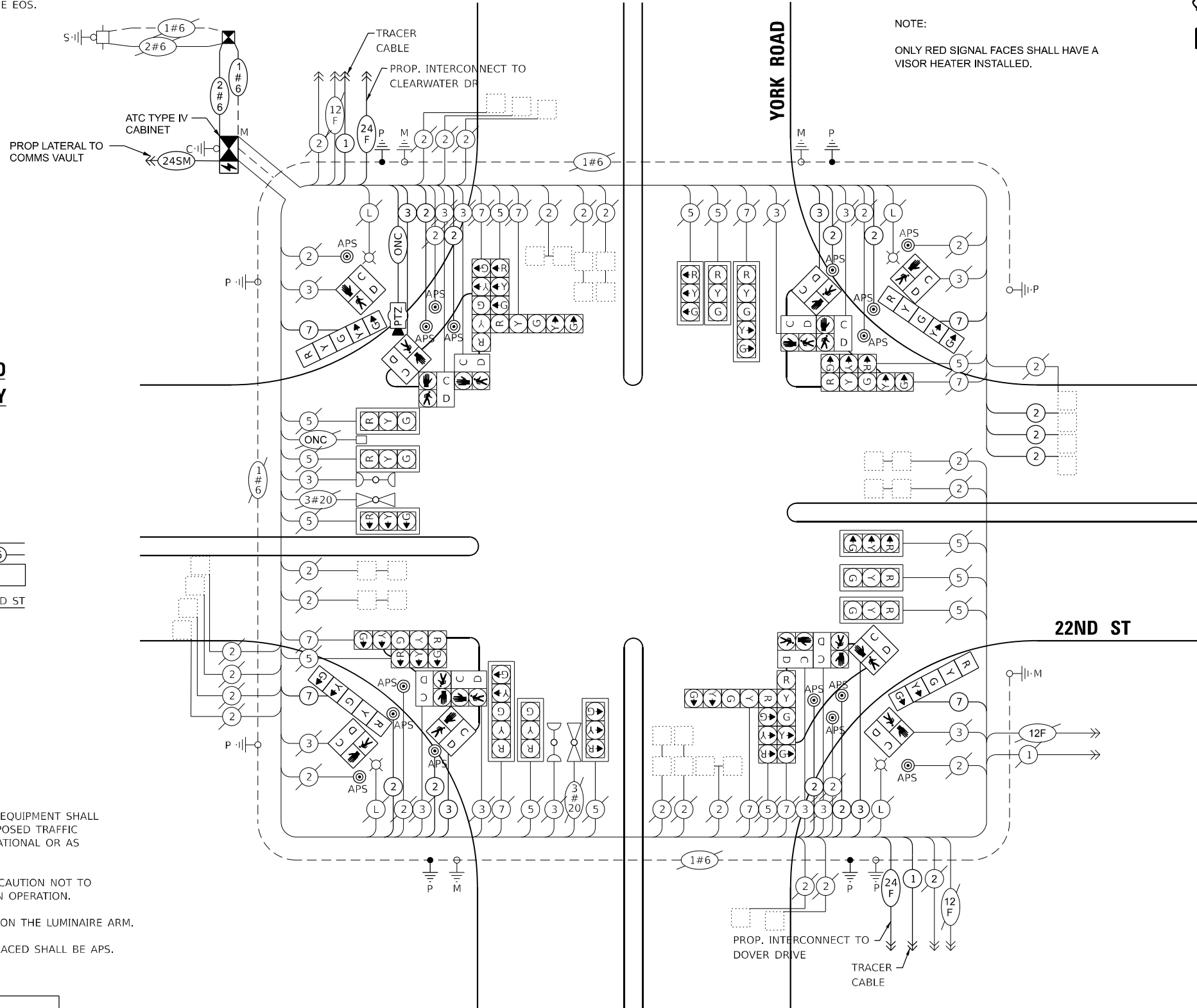


**EXISTING AND PROPOSED TRANSIT SIGNAL PRIORITY PREEMPTION SEQUENCE**



NOTE:

SOFTWARE FOR THIS CONTROLLER SHALL BE EOS.



NOTE:

ONLY RED SIGNAL FACES SHALL HAVE A VISOR HEATER INSTALLED.

**CABLE PLAN**  
(NOT TO SCALE)

NOTES:

- 1) THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
- 2) THE CONTRACTOR IS TO TAKE CAUTION NOT TO DAMAGE THE SIGNALS THAT ARE IN OPERATION.
- 3) PTZ CAMERA TO BE MOUNTED ON THE LUMINAIRE ARM.
- 4) ALL PUSHBUTTONS TO BE REPLACED SHALL BE APS.

ENERGY COSTS TO:

VILLAGE OF OAK BROOK  
1200 OAK BROOK ROAD  
OAK BROOK, IL 60523

ENERGY SUPPLY:

PHONE: (866) 639-3532  
COMPANY: COMED  
ACCOUNT NUMBER: 07480-93003

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	14	11	154
4-SECTION	-	14	-
5-SECTION	12	13	156
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL CONTROLLER	16	15	240
MASTER CONTROLLER	1	150	150
UPS	-	100	-
DETECTION RADAR OR VIDEO	1	25	25
BLANK-OUT SIGN	-	20	-
NETWORK SWITCH II OR III	-	25	-
CELLULAR MODEM	2	35	70
		15	-
<b>TOTAL UPS SIZING</b>		<b>795</b>	
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	4	240	960
<b>TOTAL SERVICE WIRE SIZING</b>		<b>2360</b>	

TS SHT NO. 144

MODEL: 1408BELMONT  
FILE NAME: D:\ENR2024\2024-TS144-CAB22ND ST YORK.dgn

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

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

DESIGNED	- JR	REVISED	-
DRAWN	- SR	REVISED	-
CHECKED	- JR	REVISED	-
DATE	- 07/14/2023	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM AND  
EMERGENCY VEHICLE PREEMPTION SEQUENCE  
22ND STREET AND YORK ROAD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	315
CONTRACT NO. 62N32				
ILLINOIS		FED. AID PROJECT		

**TS 14495  
IDOT CENTRACS  
FORMER ECON 101  
PACE TSP**

TS SHT NO. 145

MODEL: 1400BELNAMES  
FILE NAME: D:\ENR22-ar-TS145-STR22ND ST YORK.dgn

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES  
22ND STREET AND YORK ROAD**

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

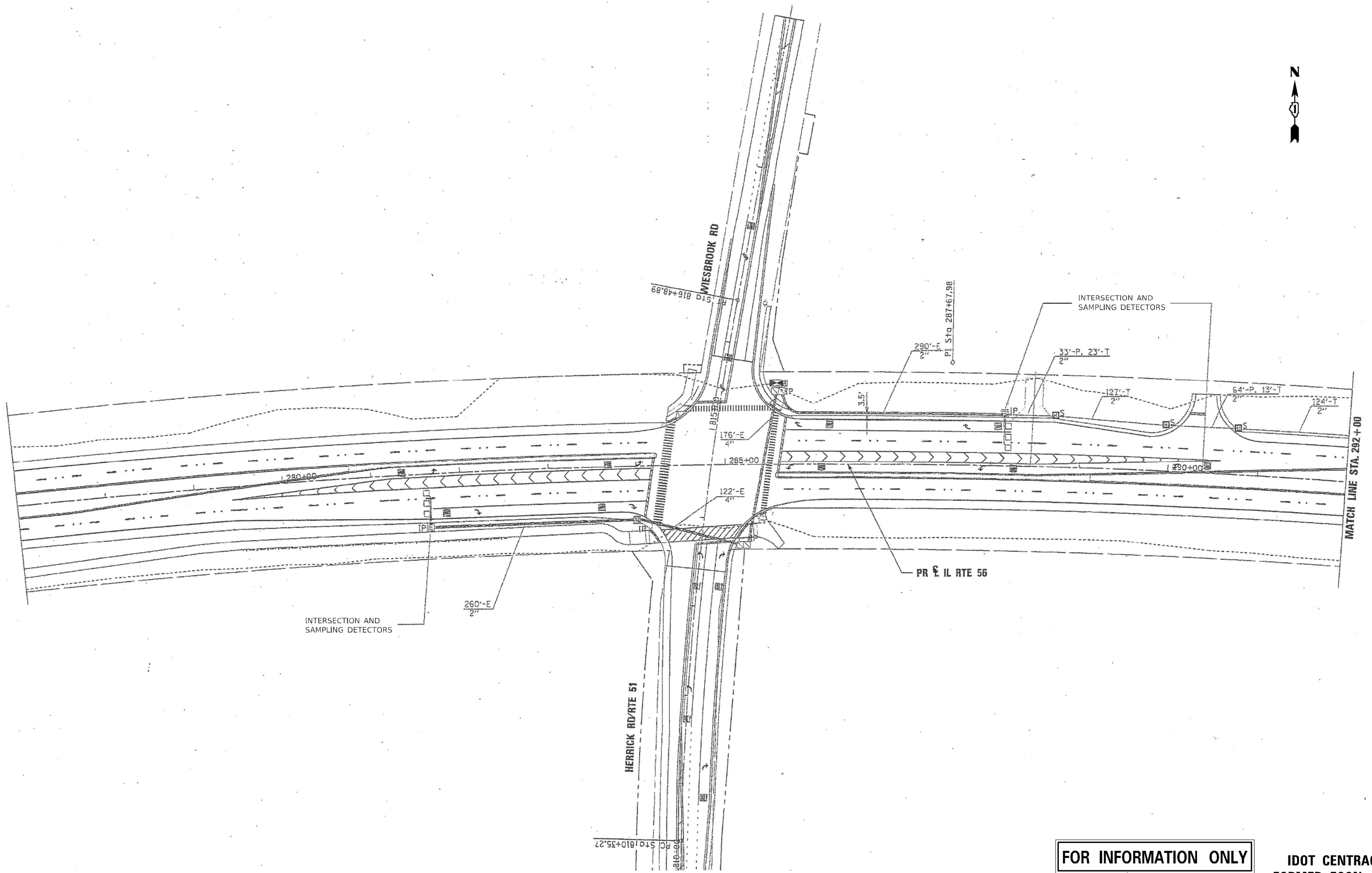
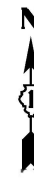
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	316
CONTRACT NO. 62N32			ILLINOIS FED. AID PROJECT	

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	84
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2080
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1074
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1139
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1617
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	50
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	873
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	23
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	161
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
PEDESTRIAN SIGNAL POST, 10'	EACH	4
LED SIGNAL FACE VISOR HEATER	EACH	26
ADVANCED TRANSPORTATION CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	16
CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER	FOOT	16
LED PEDESTRIAN SIGNAL MODULE REPLACEMENT	EACH	8
RELOCATE EXISTING LIGHTING CONTROLLER	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	22

**TS 14495  
IDOT CENTRACS  
FORMER ECON 101  
PACE TSP**





TS SHT NO. 146

MODEL: \\MODEL\NAMES  
FILE NAME: D:\ENR32-2R\TS146\INTERCONNECT.dgn

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

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN  
IL ROUTE 56/HERRICK ROAD/WIESBROOK ROAD TO NAPERVILLE ROAD**

SCALE: NTS SHEET 1 OF 7 SHEETS STA. 280+00 TO STA. 292+00

**FOR INFORMATION ONLY**

**IDOT CENTRACS  
FORMER ECON 46**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	317
				CONTRACT NO. 62N32
ILLINOIS FED. AID PROJECT				

TS SHT NO. 147

MODEL NAME: D:\ENR2-20\TS147-INTERCONNECT.dwg  
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AMES Engineering, Inc.  
 CONSULTING ENGINEERS  
 6330 Belmont Road, Suite 4B  
 Downers Grove, IL 60516

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

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

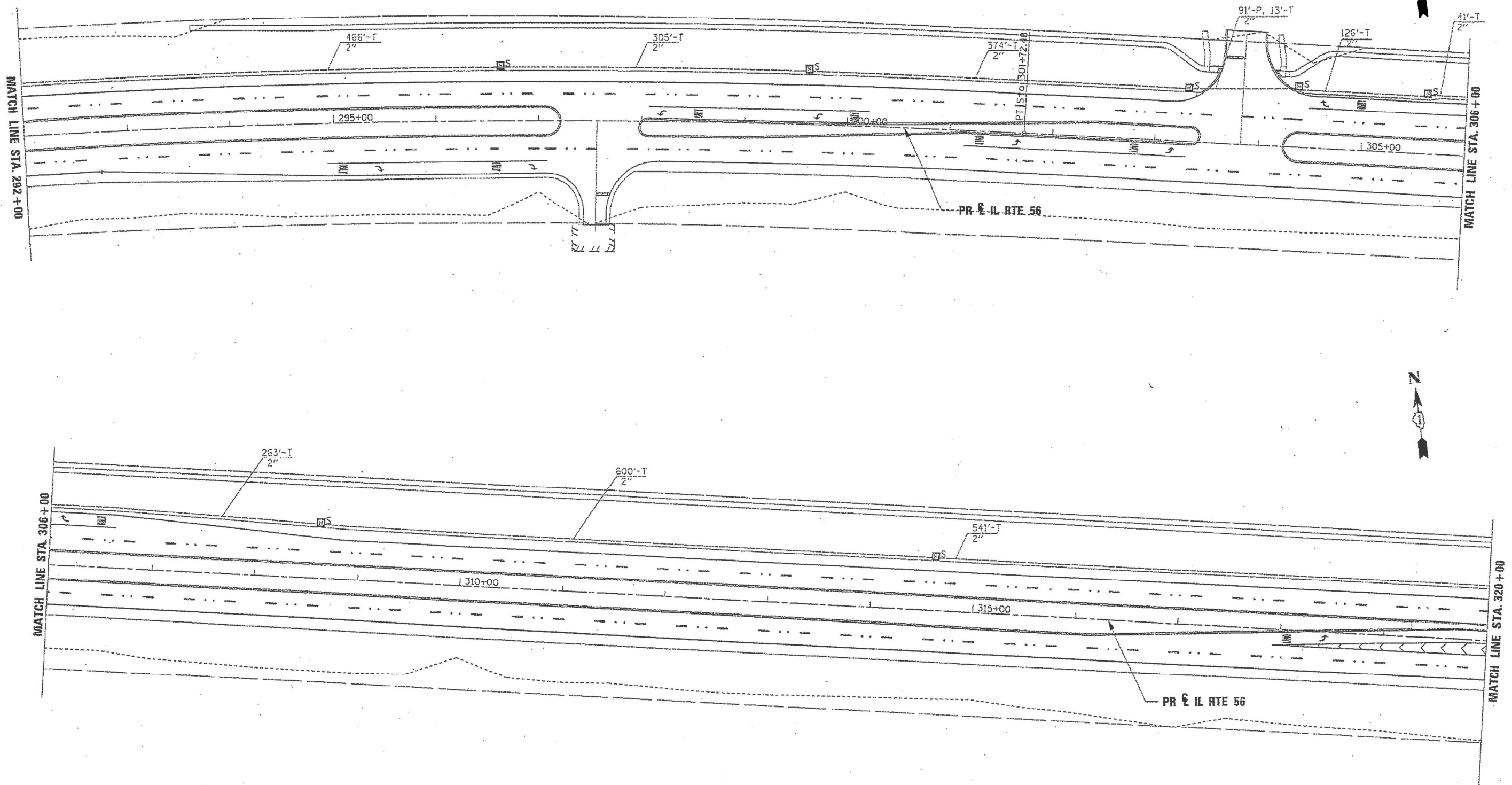
INTERCONNECT PLAN  
 IL ROUTE 56/HERRICK ROAD/WIESBROOK ROAD TO NAPERVILLE ROAD

SCALE: NTS SHEET 2 OF 7 SHEETS STA. 292+00 TO STA. 320+00

FOR INFORMATION ONLY

IDOT CENTRACS  
 FORMER ECON 46

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	318
				CONTRACT NO. 62N32
ILLINOIS FED. AID PROJECT				





TS SHT NO. 148

MODEL NAME: D:\ENR22-2R\TS148-INTERCONNECT.dgn

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

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

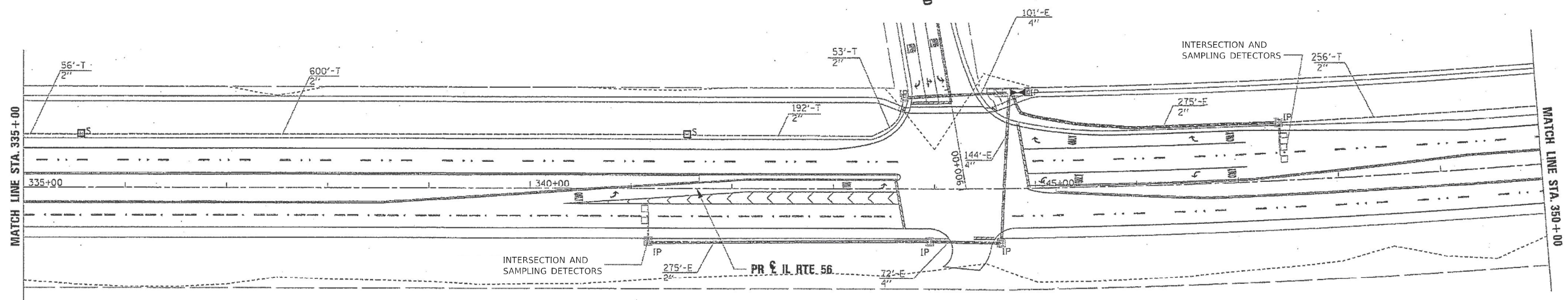
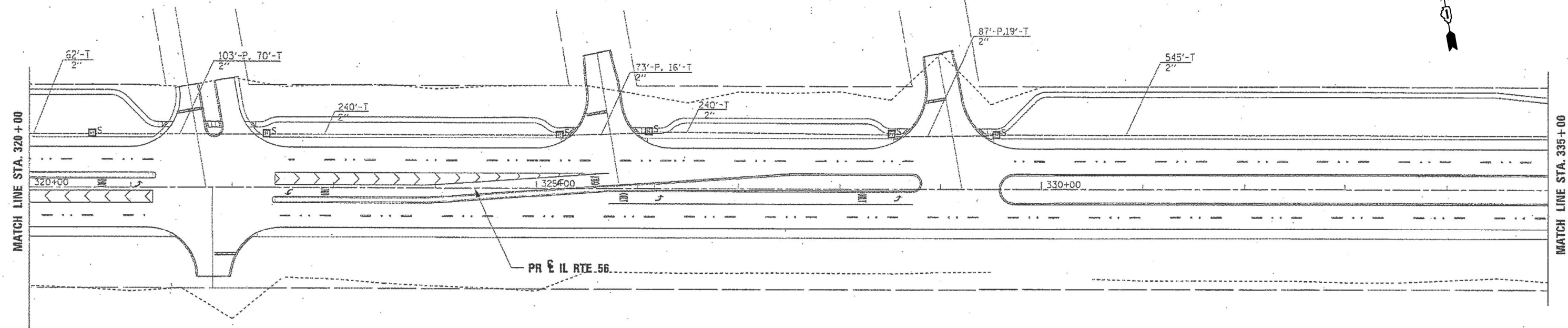
INTERCONNECT PLAN  
IL ROUTE 56/HERRICK ROAD/WIESBROOK ROAD TO NAPERVILLE ROAD

SCALE: NTS SHEET 3 OF 7 SHEETS STA. 320+00 TO STA. 350+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	319
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

IDOT CENTRACS  
FORMER ECON 46



TS SHT NO. 149

MODEL: \\AMDEL\AMES  
FILE NAME: D:\ENR22-265-SUR\INTERCONNECT.dgn

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

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

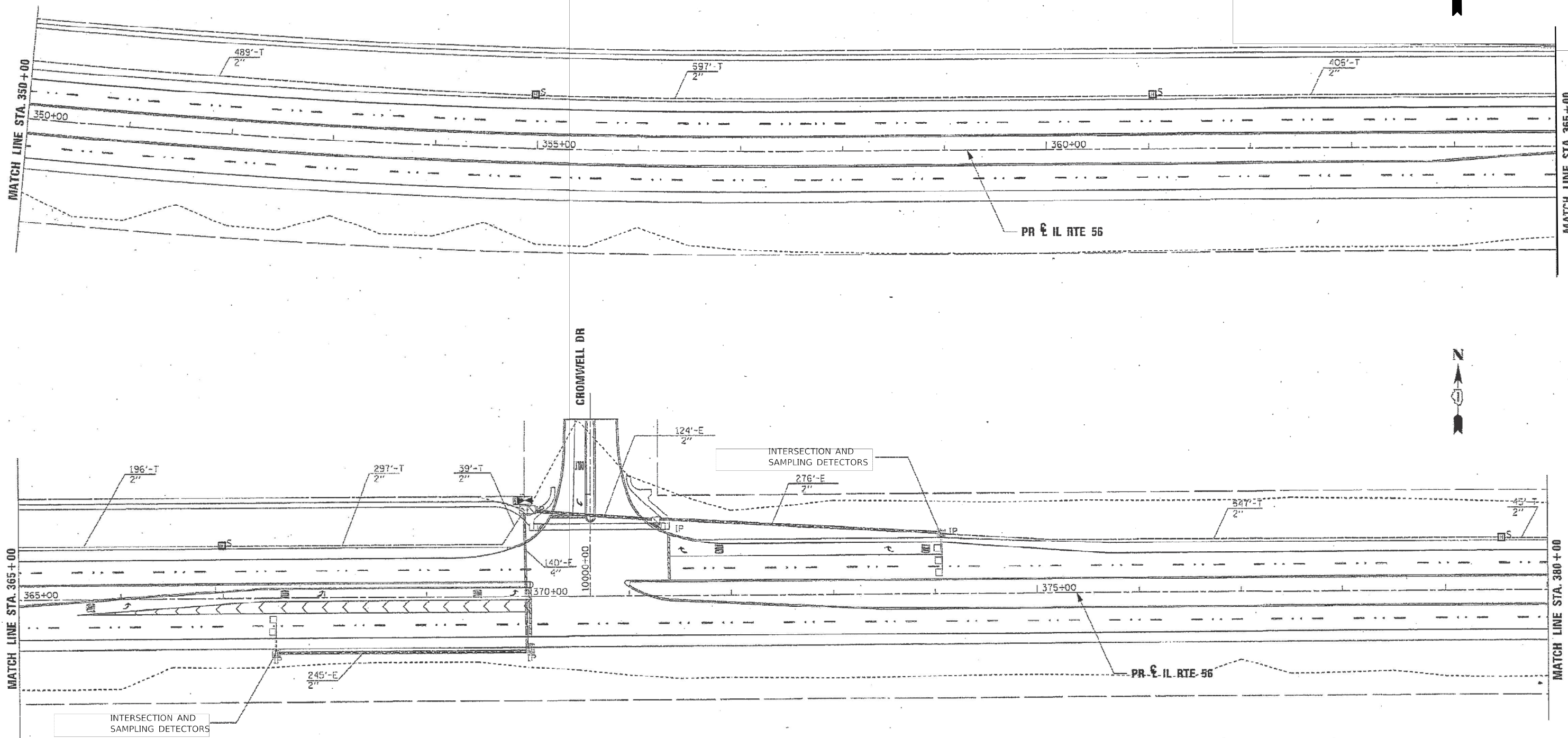
**INTERCONNECT PLAN  
IL ROUTE 56/HERRICK ROAD/WIESBROOK ROAD TO NAPERVILLE ROAD**

SCALE: NTS SHEET 4 OF 7 SHEETS STA. 350+00 TO STA. 380+00

**FOR INFORMATION ONLY**

**IDOT CENTRACS  
FORMER ECON 146**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	320
				CONTRACT NO. 62N32
		ILLINOIS	FED. AID PROJECT	





TS SHT NO. 150

MODEL: sMODELNAME  
FILE NAME: D:\E24322-PR\TS150-INTERCONNECT.dwg

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

USER NAME	= shassan	DESIGNED	- TM	REVISED	-
DRAWN	- SR	CHECKED	- TM	REVISED	-
PLOT SCALE	= sSCALE5	DATE	- 07/14/2023	REVISED	-
PLOT DATE	= 2/23/2024				

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

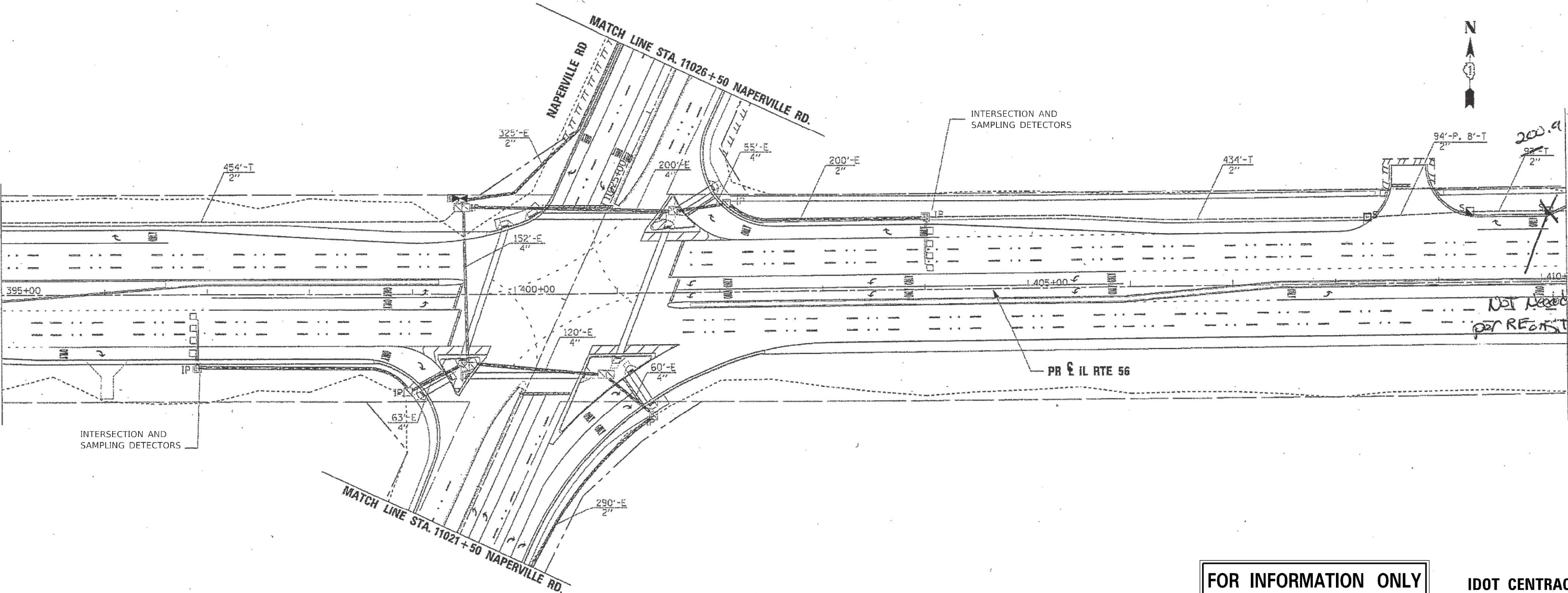
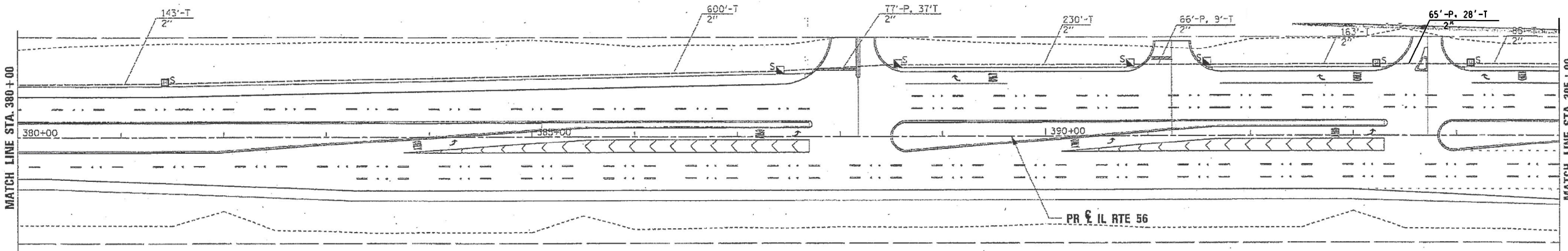
**INTERCONNECT PLAN**  
**IL ROUTE 56/HERRICK ROAD/WIESBROOK ROAD TO NAPERVILLE ROAD**

SCALE: NTS SHEET 5 OF 7 SHEETS STA. 380+00 TO STA. 410+25

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	321
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

**FOR INFORMATION ONLY**

**IDOT CENTRACS**  
**FORMER ECON 46**



TS SHT NO. 151

MODEL: AMODELNAME  
FILE NAME: D:\E2023\2023-RR-151\151-INTERCONNECT.dwg

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

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

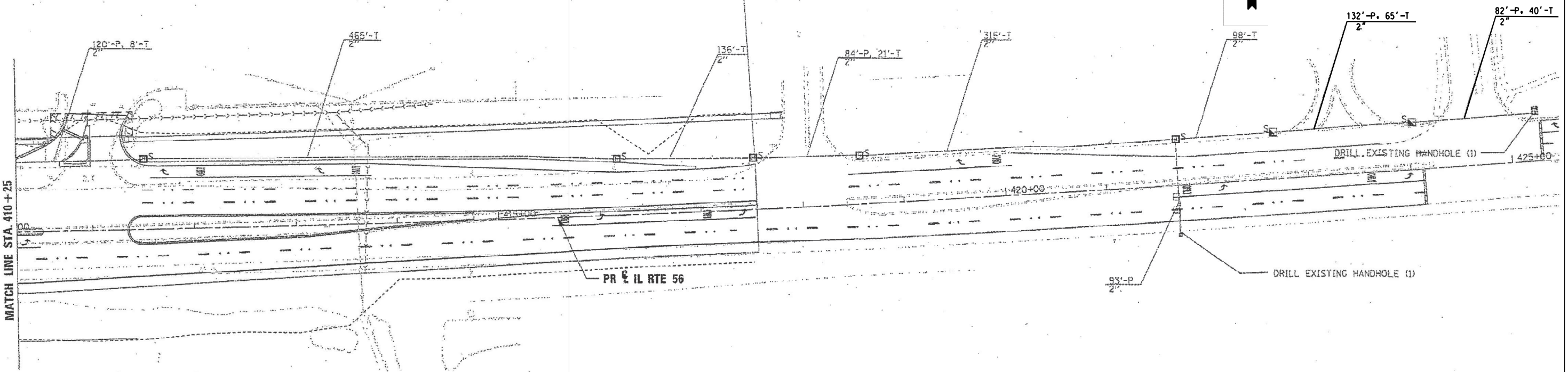
**INTERCONNECT PLAN  
IL ROUTE 56/HERRICK ROAD/WIESBROOK ROAD TO NAPERVILLE ROAD**

SCALE: NTS SHEET 6 OF 7 SHEETS STA. 410+25 TO STA. 425+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	322
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

**FOR INFORMATION ONLY**

**IDOT CENTRACS  
FORMER ECON 46**





TS SHT NO. 152

MODEL NAME: D:\ENR22-28\TS152-INTERCONNECT.dgn

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

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

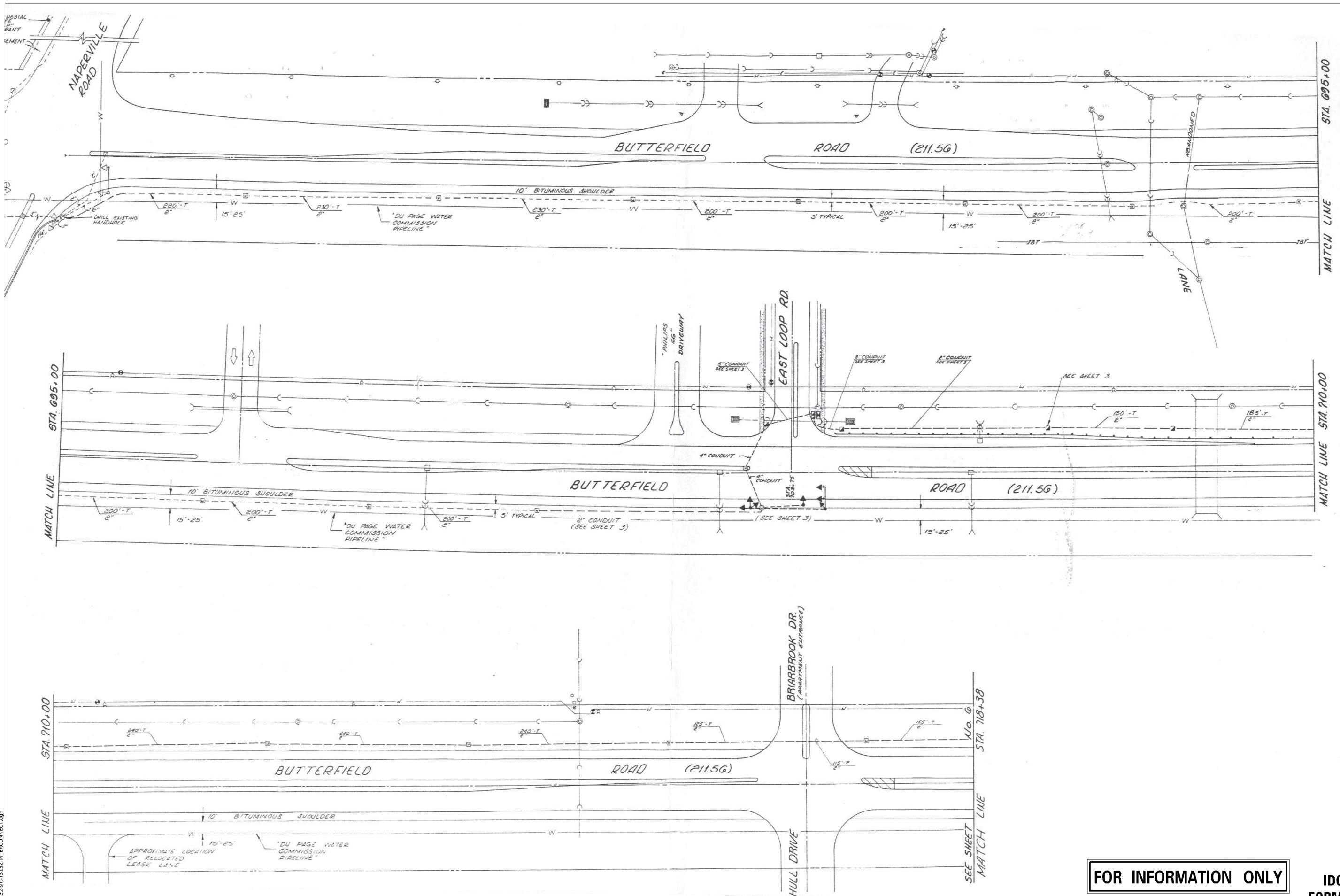
INTERCONNECT PLAN  
IL ROUTE 56/NAPERVILLE ROAD/EAST LOOP DRIVE TO BRIARBROOK DRIVE

SCALE: NTS SHEET 1 OF 2 SHEETS STA. 695+00 TO STA. 718+00

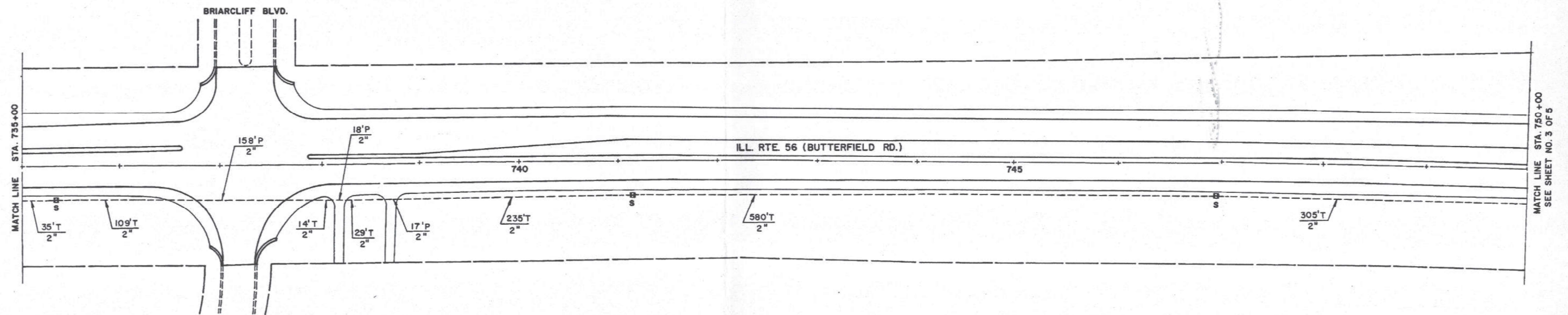
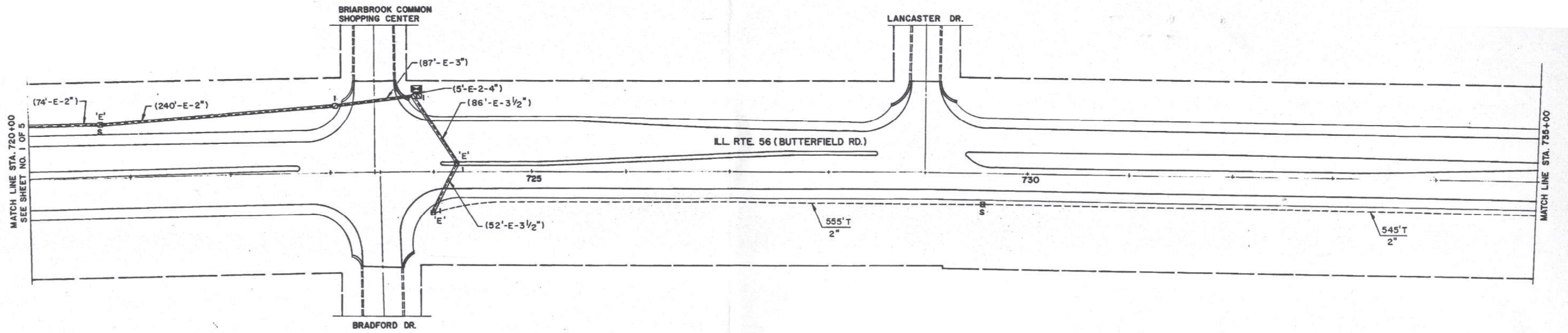
FOR INFORMATION ONLY

IDOT CENTRACS  
FORMER ECON 46

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	323
			CONTRACT NO. 62N32	
			ILLINOIS FED. AID PROJECT	







FOR INFORMATION ONLY

TS SHT NO. 153

MODEL NAME: D:\ENR22-2R\TS153-INTERCONNECT.dgn

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

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PLOT SCALE = \$SCALE\$	DRAWN - SR	REVISED -
PLOT DATE = 2/23/2024	CHECKED - TM	REVISED -
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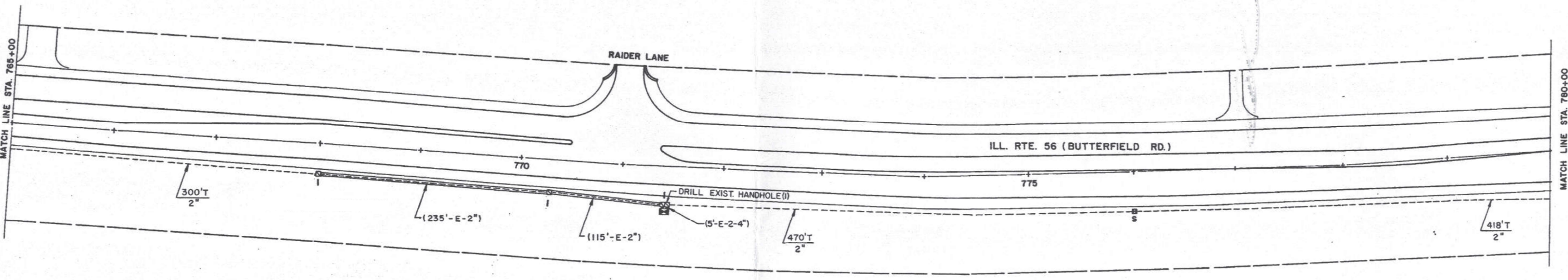
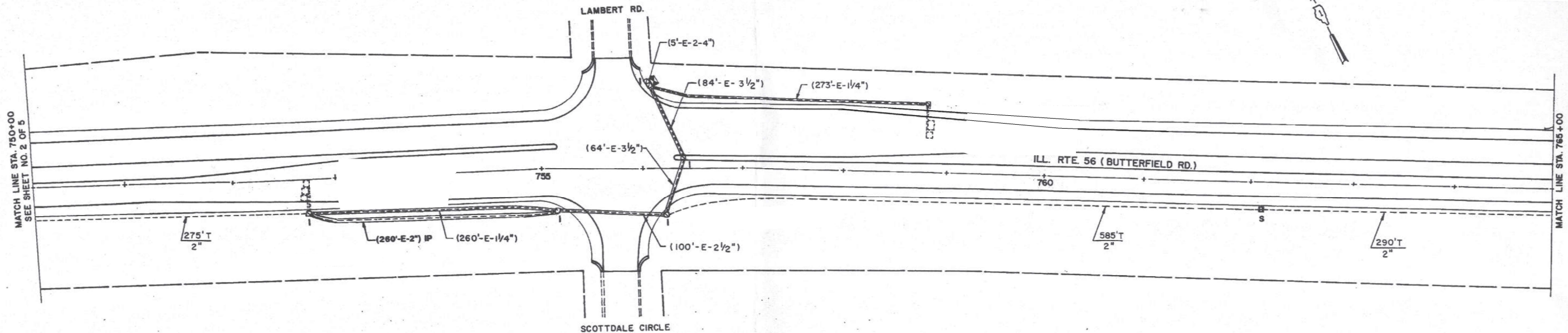
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN  
IL ROUTE 56 (BUTTERFIELD RD) NAPERVILLE ROAD TO IL ROUTE 53**

SCALE: NTS    SHEET 2 OF 5 SHEETS    STA. 720+00 TO STA. 750+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	324
CONTRACT NO. 62N32				
ILLINOIS		FED. AID PROJECT		

**IDOT CENTRACS  
FORMER ECON 46**



**FOR INFORMATION ONLY**

TS SHT NO. 154

MODEL NAME: BUTTERFIELD  
FILE NAME: D:\ENR22-2R\TS154-INTERCONNECT.dgn

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

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

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

**INTERCONNECT PLAN**  
**IL ROUTE 56 (BUTTERFIELD RD) NAPERVILLE ROAD TO IL ROUTE 53**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	325
CONTRACT NO. 62N32				
SCALE: NTS		SHEET 3 OF 5 SHEETS		STA. 750+00 TO STA. 780+00
ILLINOIS FED. AID PROJECT				

**IDOT CENTRACS**  
**FORMER ECON 46**



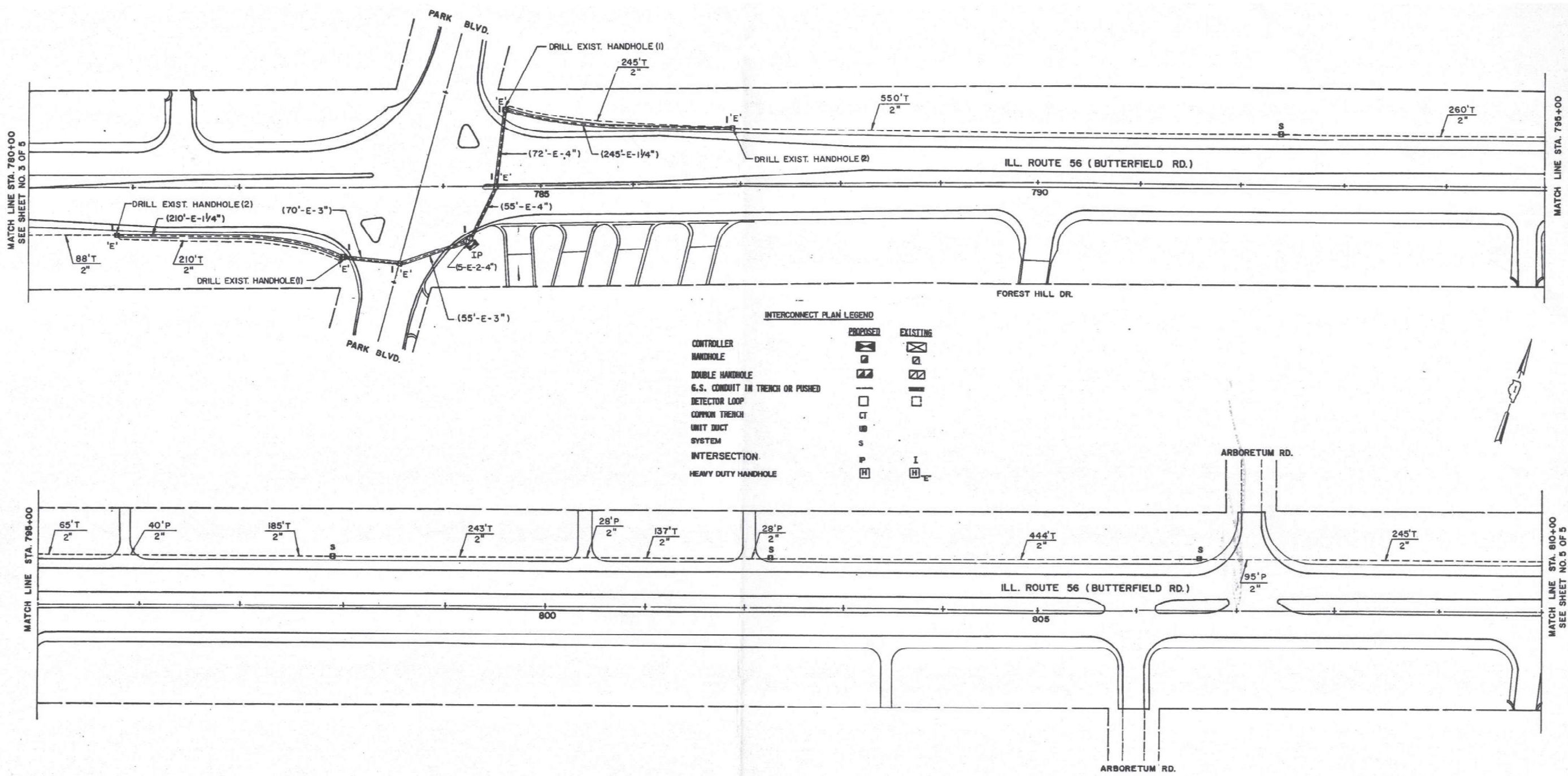
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PLOT DATE = 2/23/2024	CHECKED - TM	REVISED -
	DATE - 07/14/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN  
IL ROUTE 56 (BUTTERFIELD RD) NAPERVILLE ROAD TO IL ROUTE 53**

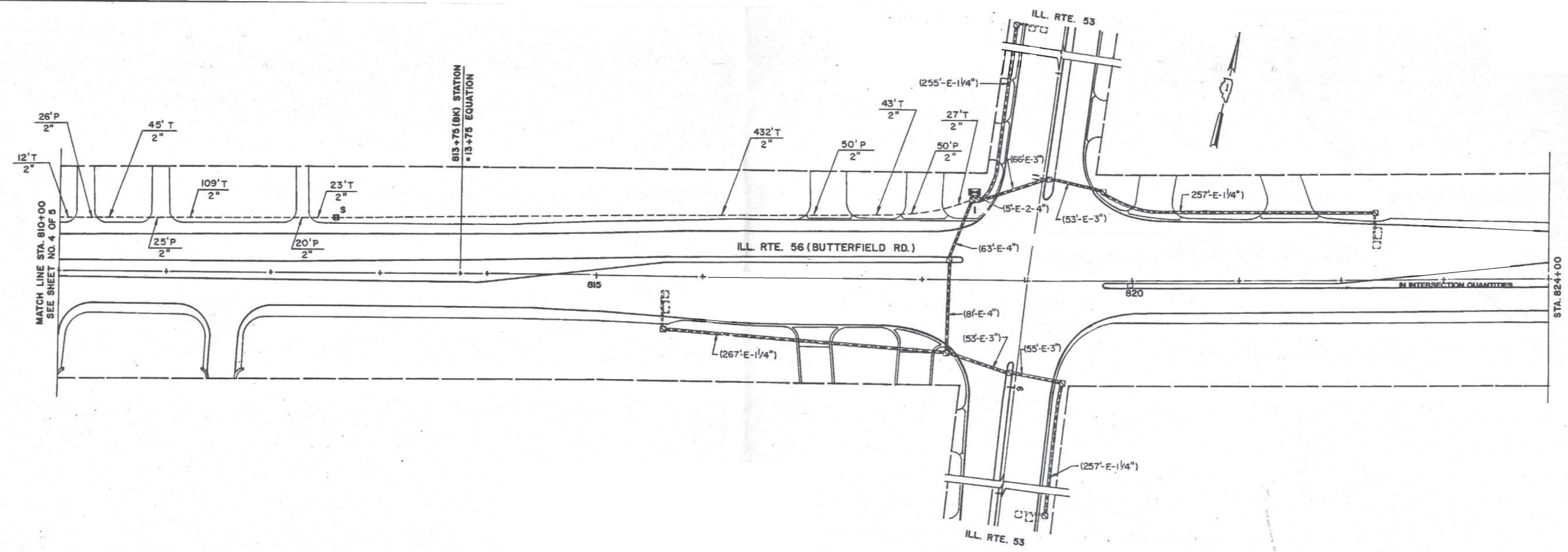
SCALE: NTS SHEET 3 OF 5 SHEETS STA. 750+00 TO STA. 780+00

**FOR INFORMATION ONLY**



**IDOT CENTRACS  
FORMER ECON 46**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	326
			CONTRACT NO. 62N32	
		ILLINOIS FED. AID PROJECT		



FOR INFORMATION ONLY

TS SHT NO. 156

MODEL NAME: D:\ENR22-2R\TS156-INTERCONNECT.dgn

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

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

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

**INTERCONNECT PLAN**  
**IL ROUTE 56 (BUTTERFIELD RD) NAPERVILLE ROAD TO IL ROUTE 53**

SCALE: NTS    SHEET 4 OF 5 SHEETS    STA. 810+00 TO STA. 824+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	327
CONTRACT NO. 62N32				
ILLINOIS		FED. AID PROJECT		

**IDOT CENTRACS**  
**FORMER ECON 46**



TS SHT NO. 157

MODEL NAME: ILL56  
 FILE NAME: D:\ENR22-28\TS157-INTERCONNECT.dgn

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

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

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

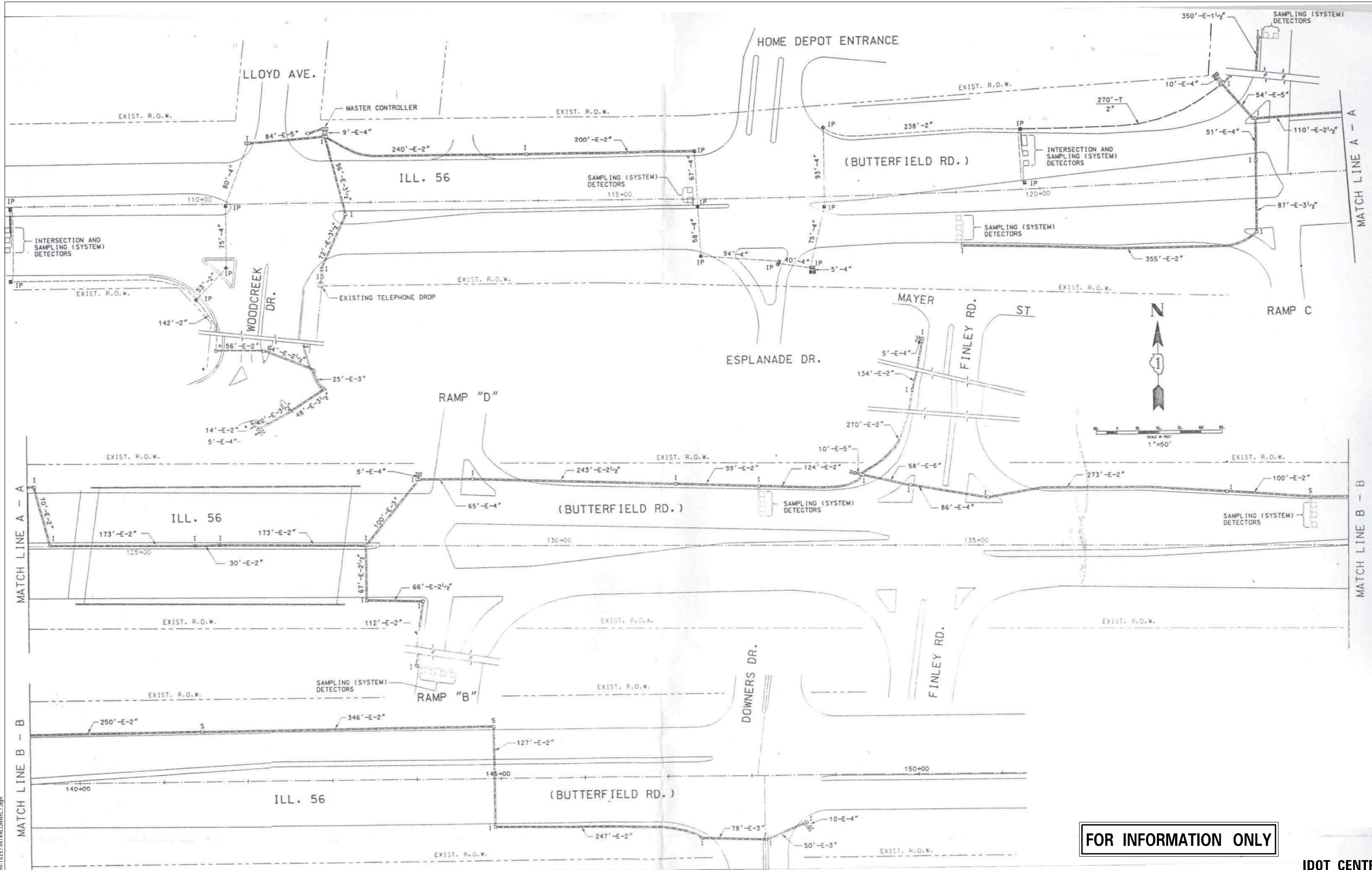
INTERCONNECT PLAN  
 IL ROUTE 56 (BUTTERFIELD RD)  
 AT WOODCREEK ROAD/LOTT AVENUE TO DOWNERS DRIVE

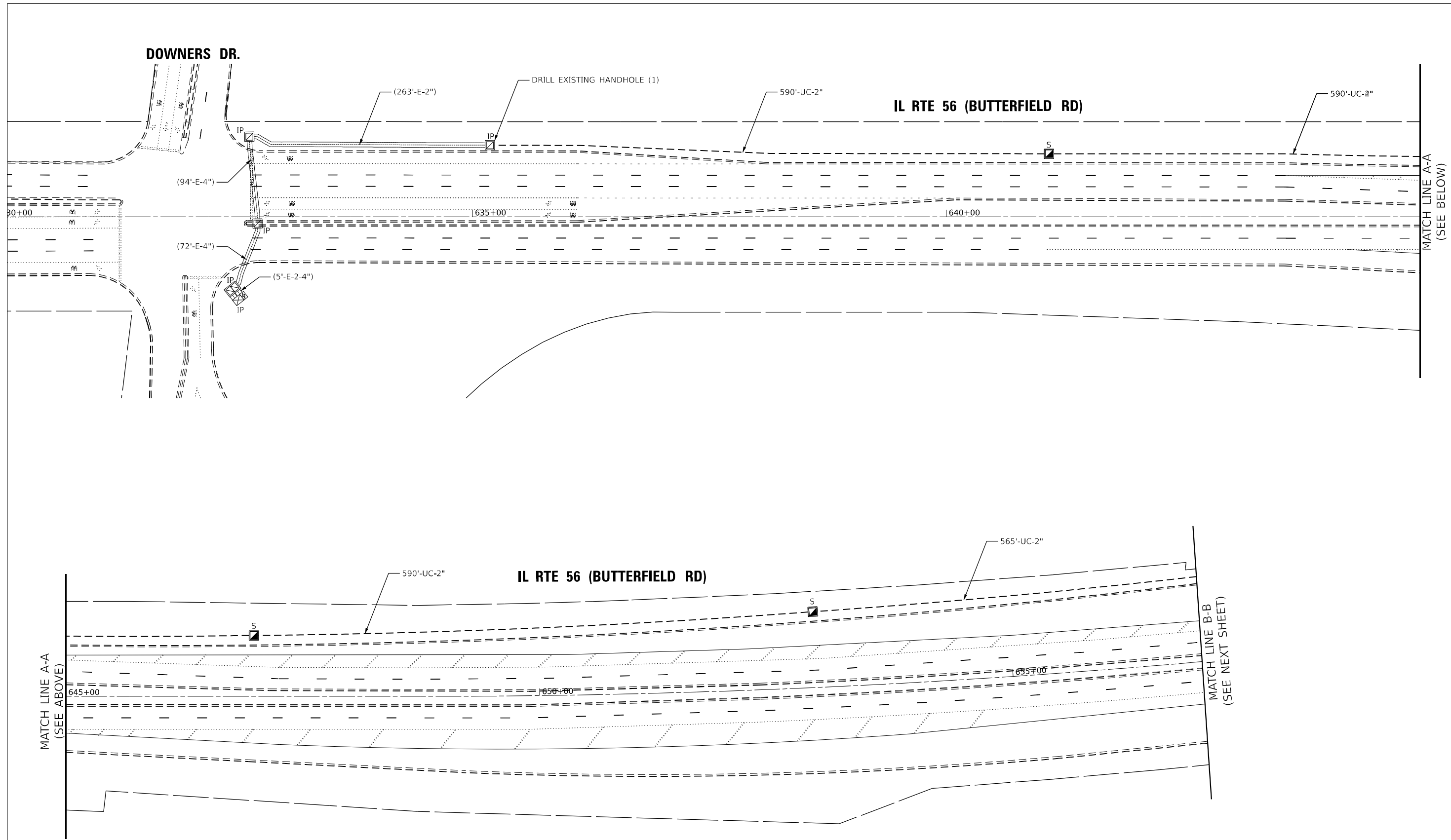
SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	328
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

IDOT CENTRACS  
 FORMER ECON 41





**TS SHT NO. 158**

MODEL: 1400BELNAMES  
FILE NAME: D:\ENR22-ar-151568-INTERCONNECT.dgn

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

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN  
IL ROUTE 56 (BUTTRERFIELD RD) FROM DOWNERS DR TO FAIRFIELD AVE**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	329
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

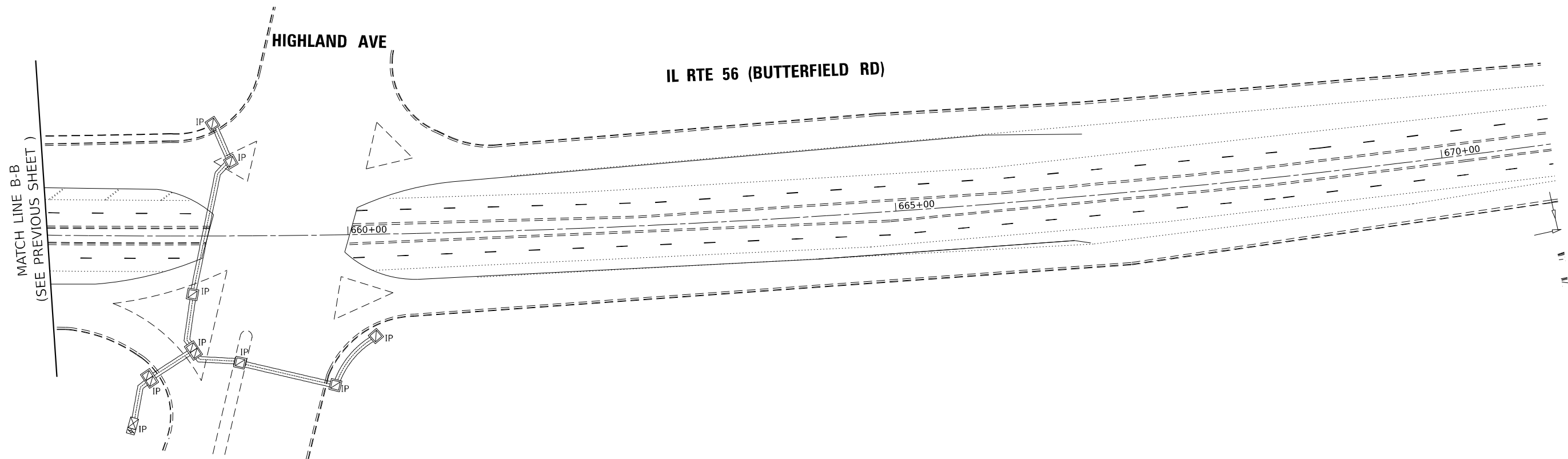
SCALE: NTS SHEET 1 OF 7 SHEETS STA. 280+00 TO STA. 292+00

MATCH LINE A-A  
(SEE ABOVE)

MATCH LINE A-A  
(SEE BELOW)

MATCH LINE A-A  
(SEE ABOVE)

MATCH LINE B-B  
(SEE NEXT SHEET)



TS SHT NO. 159

MODEL: 4400BELMAME  
FILE NAME: D:\62N32-2R-159-INTERCONNECT.dgn

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

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

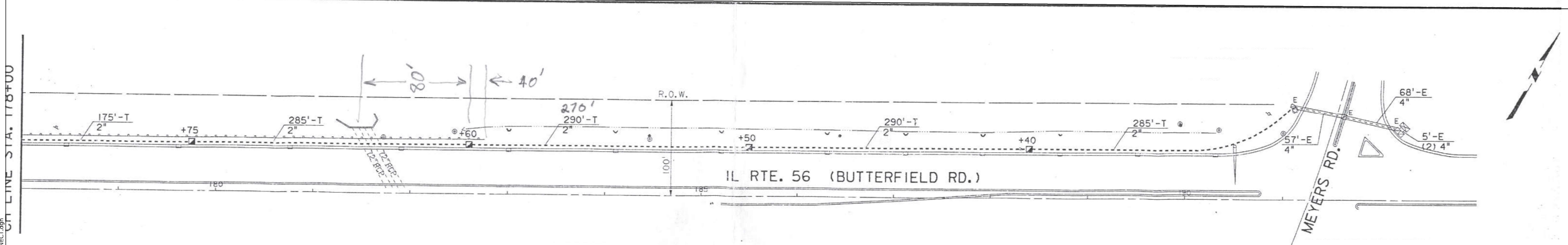
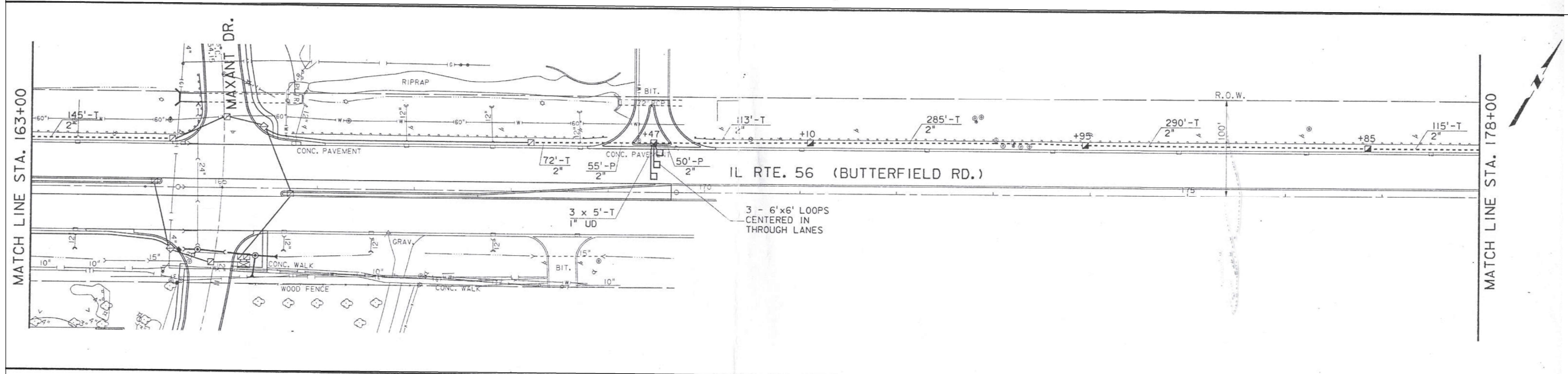
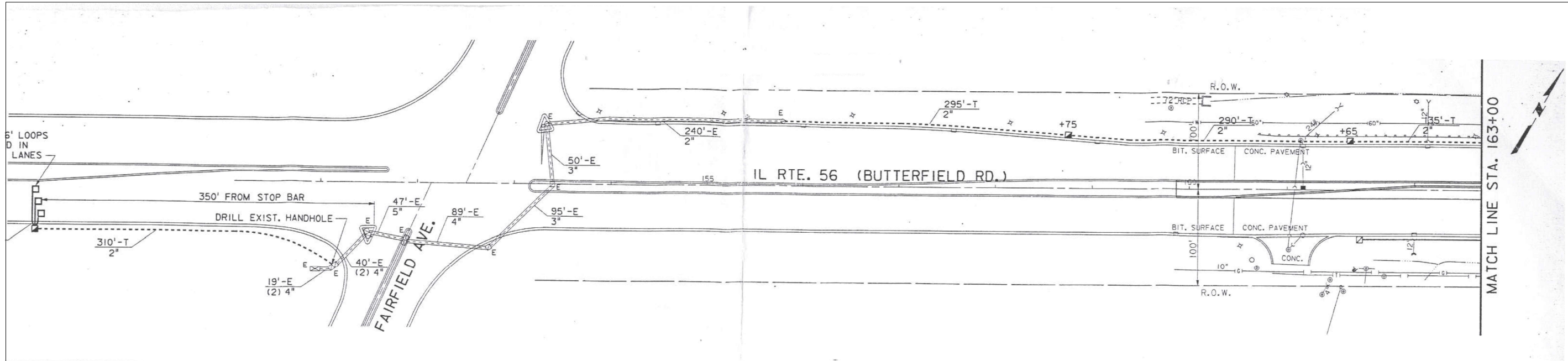
**INTERCONNECT PLAN  
IL ROUTE 56 (BUTTRFIELD RD) FROM DOWNERS DR TO FAIRFIELD AVE**

SCALE: NTS    SHEET 1 OF 7 SHEETS    STA. 280+00 TO STA. 292+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	330
				CONTRACT NO. 62N32
		ILLINOIS	FED. AID PROJECT	

**IDOT CENTRACS**





**FOR INFORMATION ONLY**

TS SHT NO. 160

MODEL NAME: D:\ENR22-28\TS160-INTERCONNECT.dwg  
FILE NAME: D:\ENR22-28\TS160-INTERCONNECT.dwg

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

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN  
IL ROUTE 56 (BUTTERFIELD RD)  
AT FAIRFIELD AVENUE TO MAXANT DRIVE**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	331
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

**IDOT CENTRACS  
FORMER ECON 28**

TS SHT NO. 161

MODEL: 1400BELNAMES  
FILE NAME: D:\ENR22-83-161-INTERCONNECT.dgn

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

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

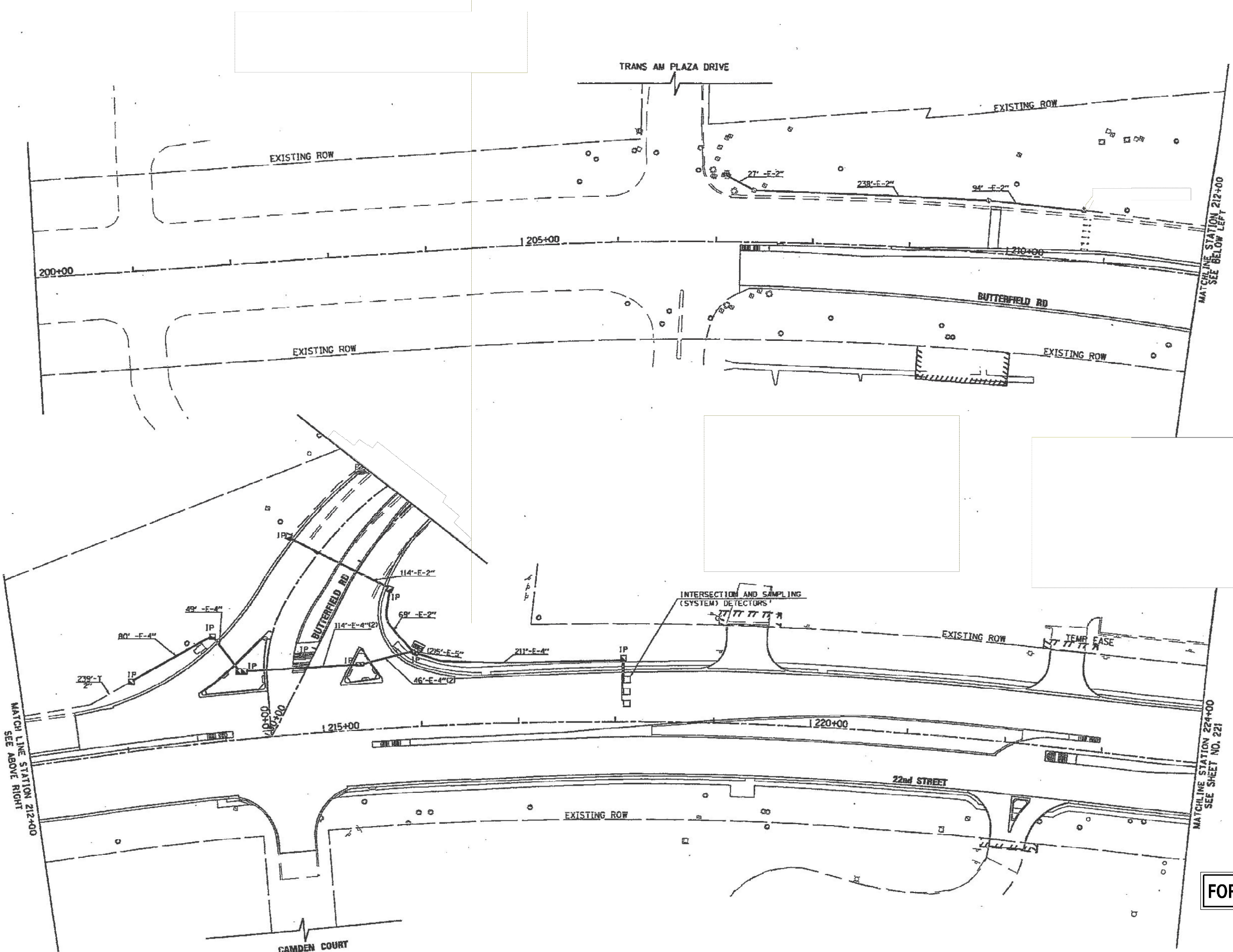
INTERCONNECT PLAN  
22ND STREET AT IL ROUTE 56 TO IL ROUTE 83

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	332
CONTRACT NO. 62N32			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY

IDOT CENTRACS  
FORMER ECON 28





TS SHT NO. 162

MODEL: \\AMDEL\AMES  
FILE NAME: D:\ENR22-28\TS162-INTERCONNECT.dgn

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

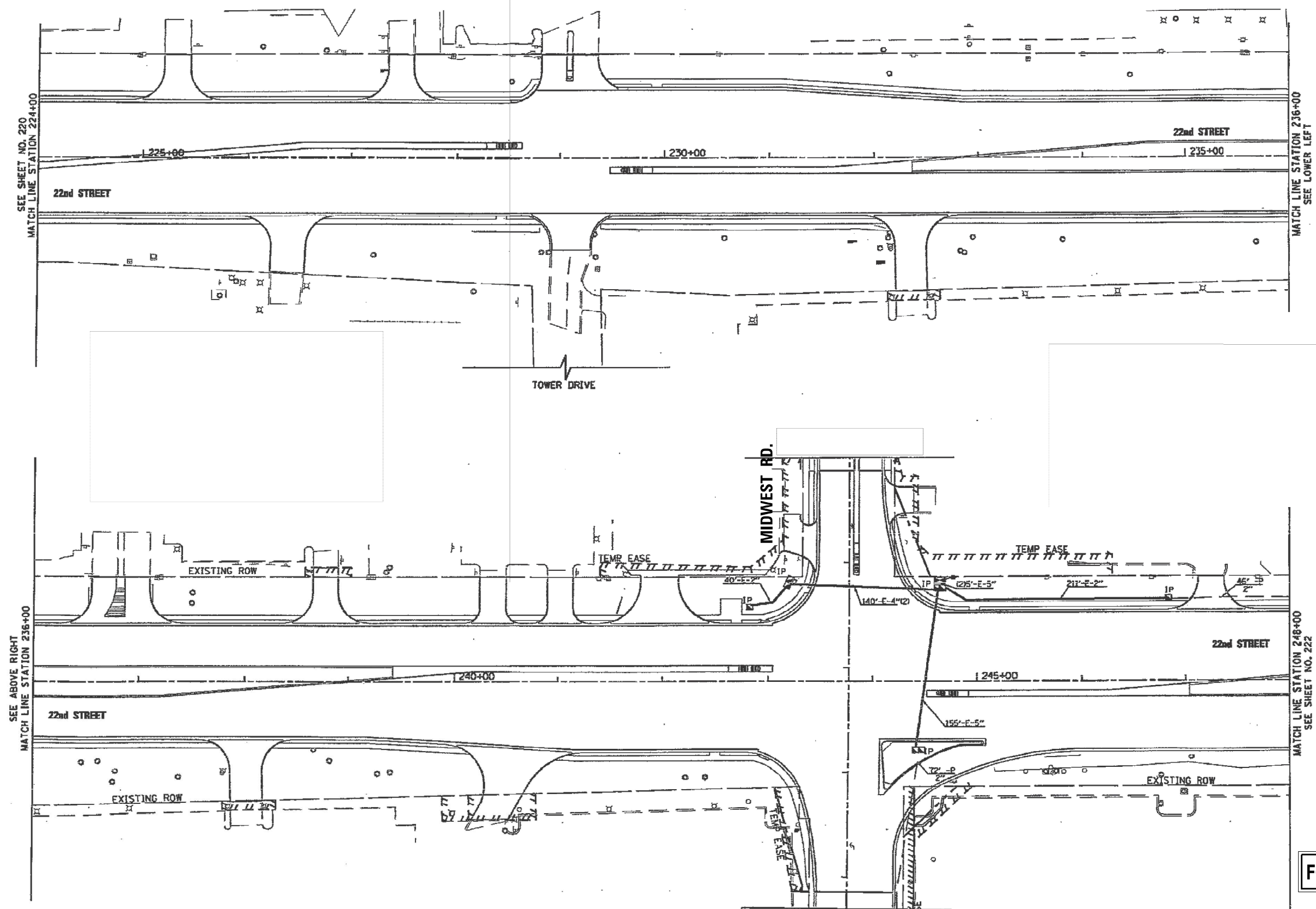
USER NAME = shassan	DESIGNED - TM	REVISED -
DRAWN - SR	REVISIONS -	
PLOT SCALE = \$SCALE\$	CHECKED - TM	REVISED -
PLOT DATE = 2/23/2024	DATE - 07/14/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN  
22ND STREET AT IL ROUTE 56 TO IL ROUTE 83**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	333
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				



**FOR INFORMATION ONLY**

**IDOT CENTRACS  
FORMER ECON 28**

TS SHT NO. 163

MODEL: 1400BELNAMES  
FILE NAME: D:\ENR22-265-28-163-INTERCONNECT.dgn

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

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

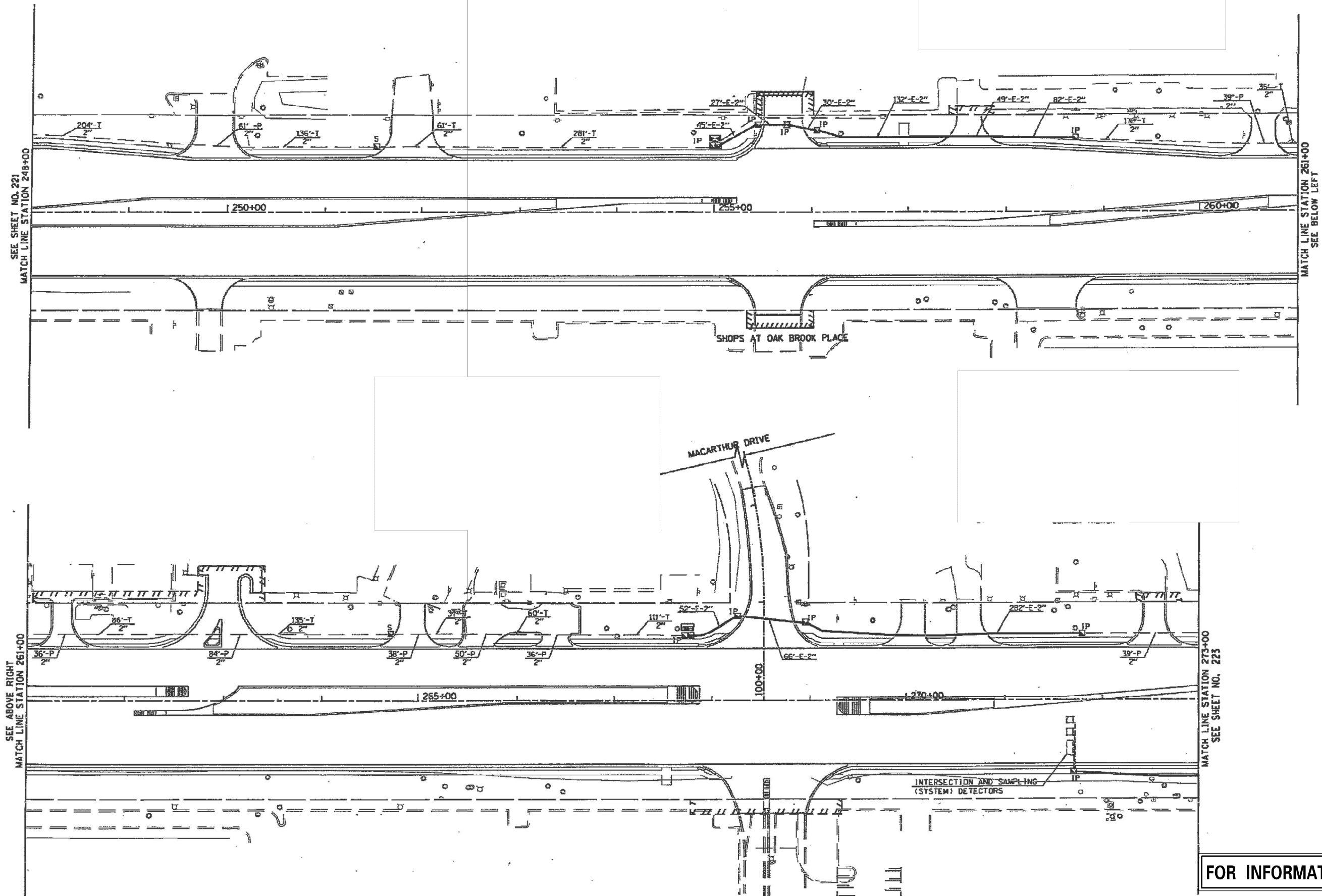
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN  
22ND STREET AT IL ROUTE 56 TO IL ROUTE 83**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	334
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

**FOR INFORMATION ONLY**



**IDOT CENTRACS  
FORMER ECON 28**

TS SHT NO. 164

MODEL: 1400BELMANS  
FILE NAME: D:\ENR22-28-164\INTERCONNECT.dgn

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

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

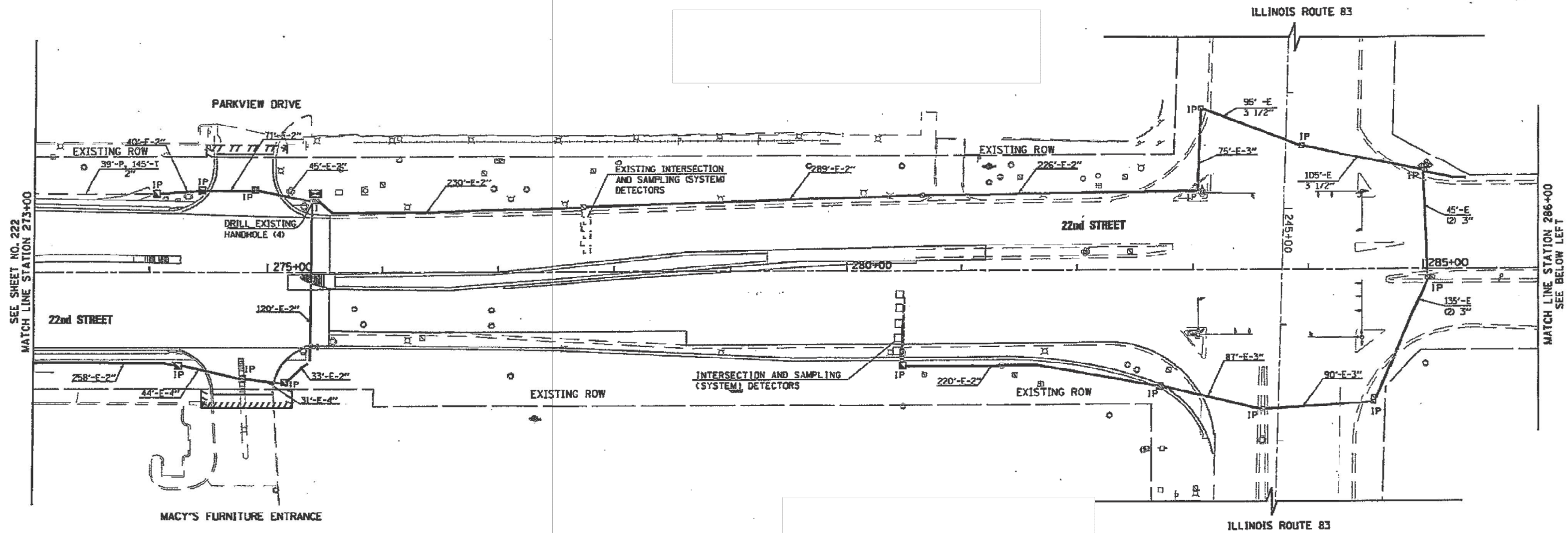
**INTERCONNECT PLAN  
22ND STREET AT IL ROUTE 56 TO IL ROUTE 83**

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

**FOR INFORMATION ONLY**

**IDOT CENTRACS  
FORMER ECON 28**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	335
				CONTRACT NO. 62N32
ILLINOIS FED. AID PROJECT				





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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

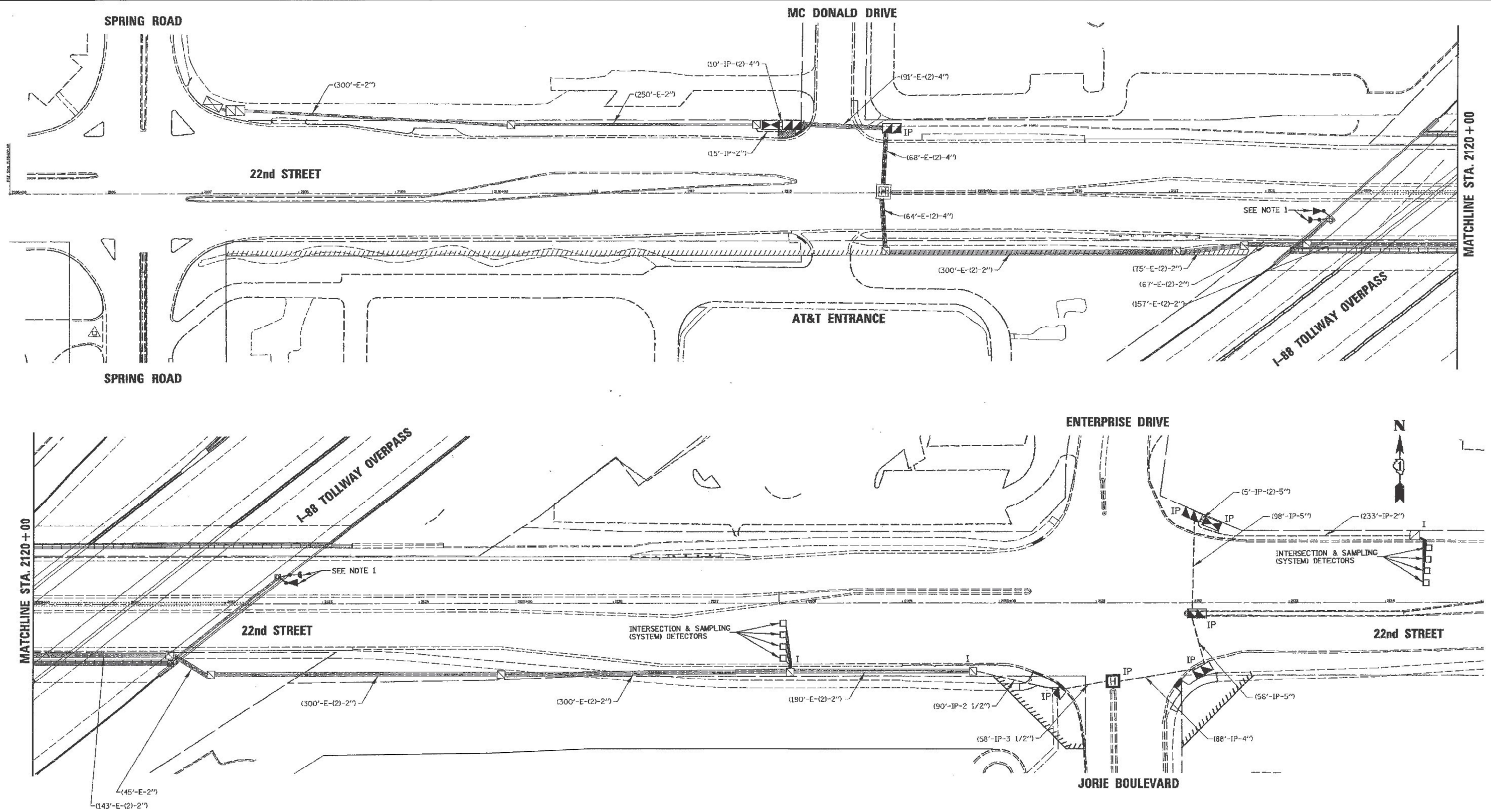
**INTERCONNECT PLAN  
22ND STREET AT SPRING ROAD  
TO ENTERPRISE DRIVE/JORIE BOULEVARD**

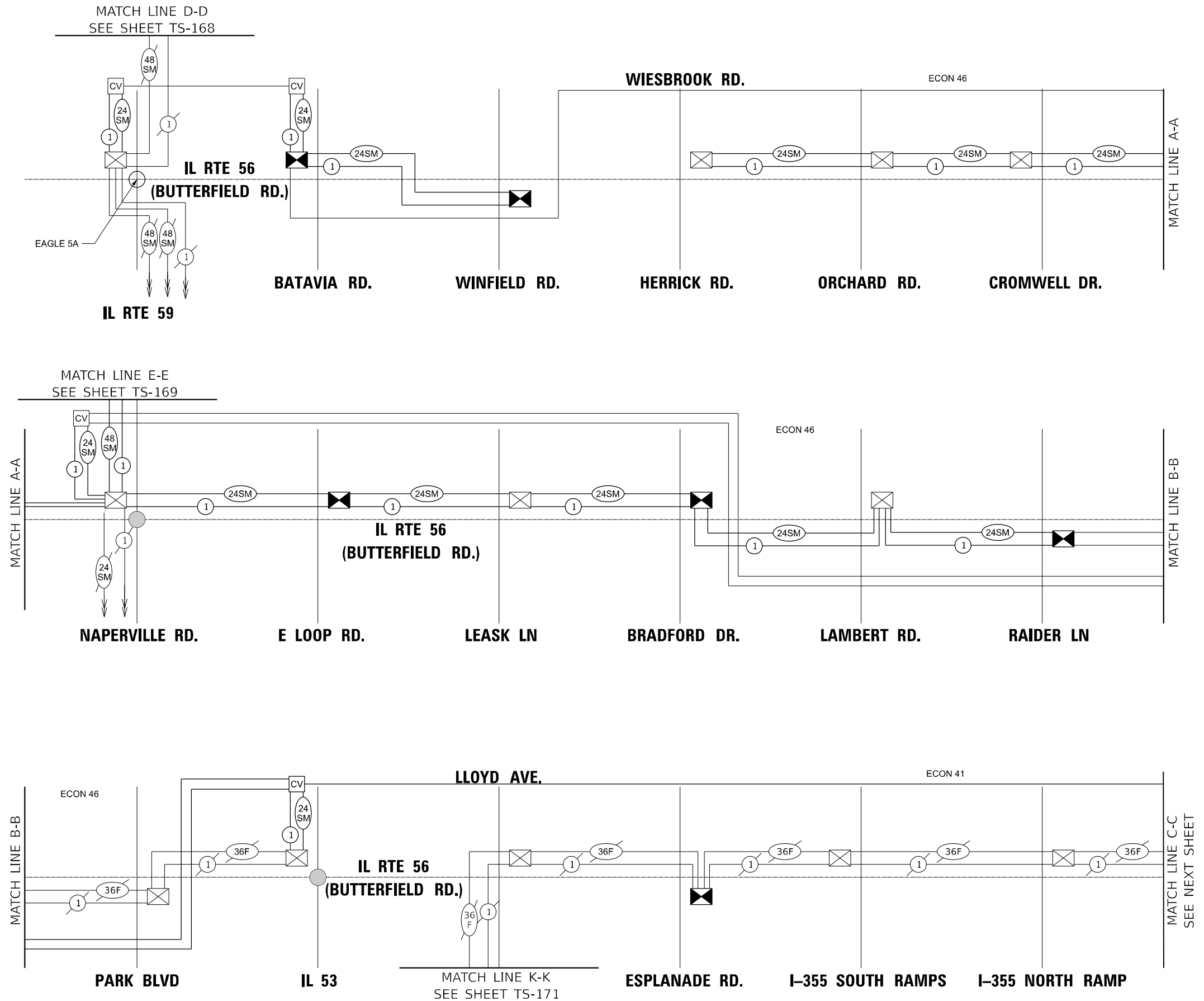
SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

**FOR INFORMATION ONLY**

**IDOT CENTRACS  
FORMER ECON 35**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	336
			CONTRACT NO. 62N32	
			ILLINOIS FED. AID PROJECT	





- LEGENDS**
- EX LEVEL III
  - LEVEL III
  - CV COMMUNICATION VAULT - SEE ITS PLANS
  - COMMUNICATION AND DISTRIBUTION FIBER - SEE ITS PLAN

TS SHT NO. 166

MODEL: 1400BELMANS  
FILE NAME: D:\ENR22-01\TS166\INTERCONNECT SCHEMATIC.dgn

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

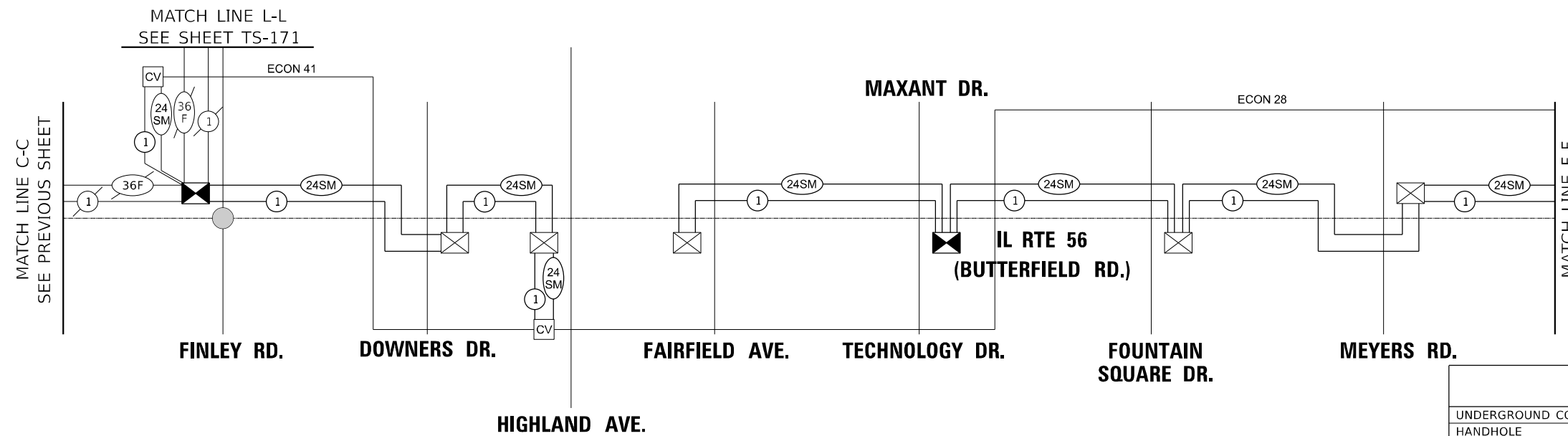
USER NAME = shassan	DESIGNED - TM	REVISED -
DRAWN - SR	REVISED -	
CHECKED - TM	REVISED -	
DATE - 07/14/2023	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT SCHEMATIC (SHEET 1 OF 2)  
IL ROUTE 56 (BUTTERFIELD RD) FROM IL ROUTE 59 TO YORK ROAD**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	337
CONTRACT NO. 62N32				
ILLINOIS		FED. AID PROJECT		

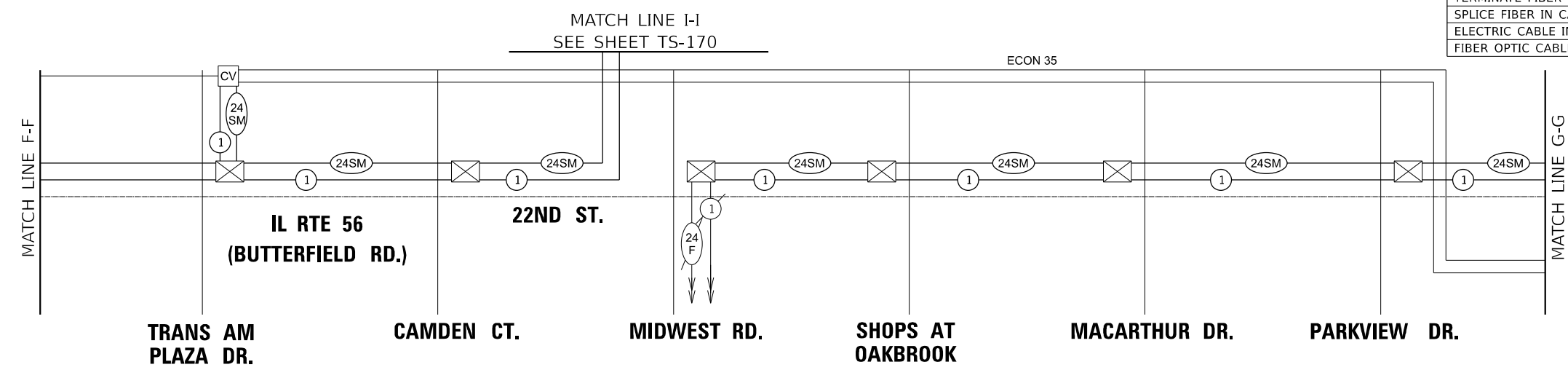
SCALE: NTS    SHEET 1 OF 1 SHEETS    STA.    TO STA.



- LEGENDS:**
- EX LEVEL III
  - LEVEL III
  - CV COMMUNICATION VAULT - SEE ITS PLANS
  - COMMUNICATION AND DISTRIBUTION FIBER - SEE ITS PLAN

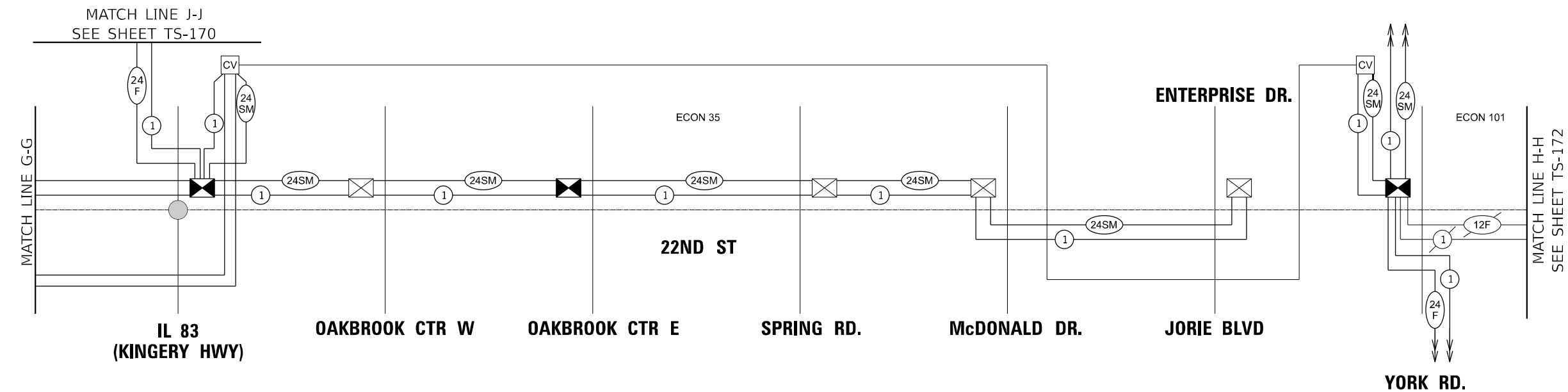
**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	2,335
HANDHOLE	EACH	3
DRILL EXISTING HANDHOLE	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	104,676
TERMINATE FIBER IN CABINET	EACH	622
SPLICE FIBER IN CABINET	EACH	252
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	52,338
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, SM24F	FOOT	52,338



**NOTE:**  
 22nd ST. AND YORK RD SHALL REMAIN ON THE IDOT CLOSED LOOP SYSTEM ECON 101. THE LAYER II SWITCH AND PTZ CAMERA SHALL BE CONFIGURED AND CONNECTED TO OPERATE WITHIN THE IDOT CENTRACS NETWORK.

CONTRACT 62N39 WILL INSTALL NEW FIBER FROM THE EAST TO YORK RD. AND CAN CHANGE THIS INTERSECTION OVER TO IDOT CENTRACS



**TS SHT NO. 167**

MODEL: 4400BELMAME  
 FILE NAME: D:\62N39\22-01\TS167-INTERCONNECT SCHEMATIC.dgn

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

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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

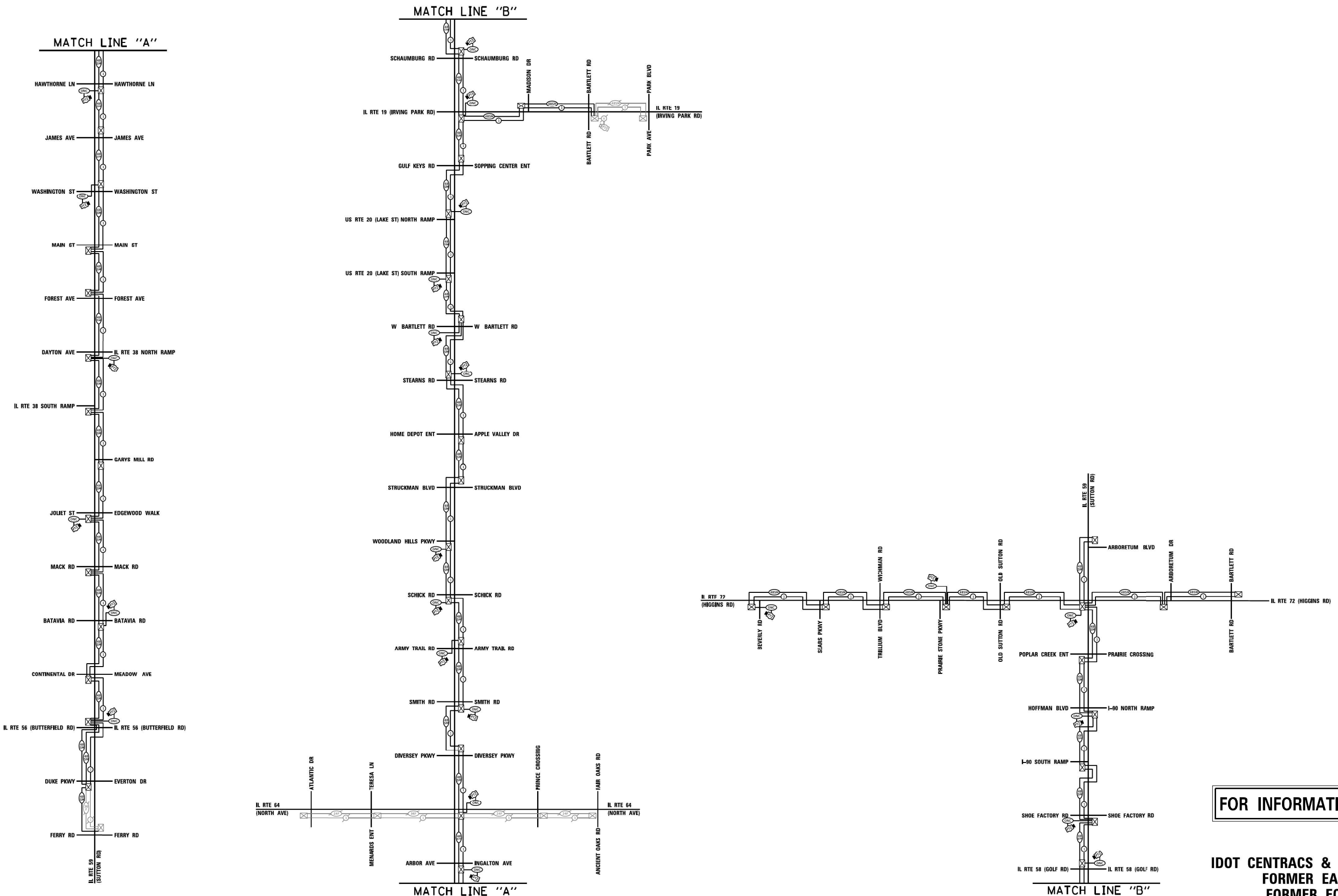
**INTERCONNECT SCHEMATIC (SHEET 2 OF 2)  
 IL ROUTE 56 (BUTTERFIELD RD) FROM IL ROUTE 59 TO YORK ROAD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	338
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

**IDOT TACTICS &  
 IDOT CENTRACS**





**FOR INFORMATION ONLY**

**IDOT CENTRACS & IDOT TACTICS  
FORMER EAGLE 5A & 5N  
FORMER ECON 90 & 116**

**TS SHT NO. 168**

MODEL: 1400BELMANS  
FILE NAME: D:\ENR22-2R-15168-INTERCONNECT SCHEMATIC.dgn

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

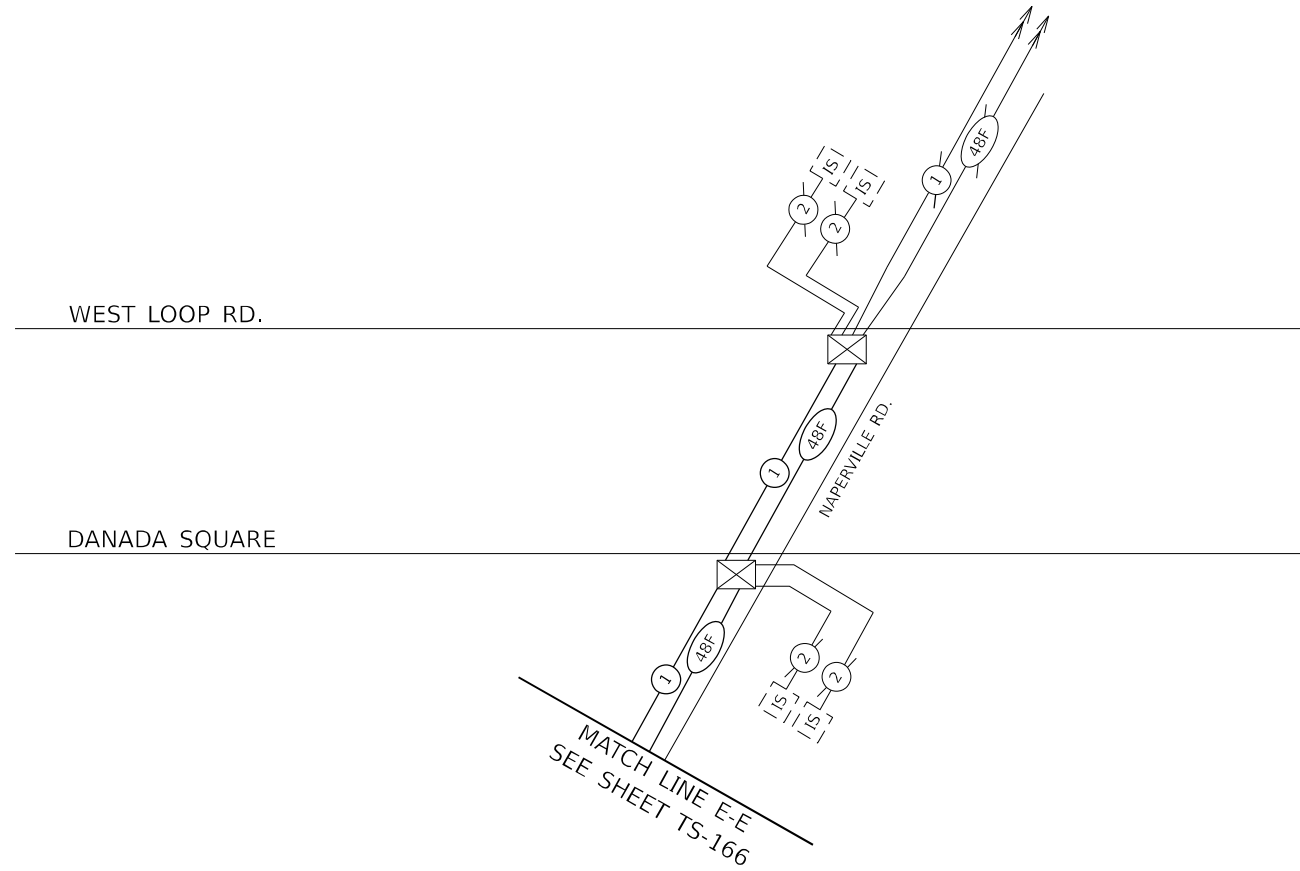
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PLOT SCALE = \$SCALE\$	DRAWN - SR	REVISED -
PLOT DATE = 2/23/2024	CHECKED - TM	REVISED -
	DATE - 07/14/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT SCHEMATIC  
IL ROUTE 64 (NORTH AVENUE) AT TERESA LANE/MENARDS ENTRANCE**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	339
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				



**NOTE:**  
 THE CONTROLLER AT NAPERVILLE ROAD WITH DANADA SQUARE AND WEST LOOP ROAD ARE CURRENTLY PART OF IDOTS CLOSED LOOP SYSTEM ECON 46 AND SHALL BE BROUGHT ONTO IDOT CENTRACS. THESE INTERSECTIONS SHALL MAINTAIN THEIR EXISTING CONNECTION TO DUPAGE CENTRACS AFTER BEING BROUGHT ONTO IDOT CENTRACS.

TS SHT NO. 169

MODEL: 4100BELNAMES  
 FILE NAME: D:\ENR22-2R\TS169-INTERCONNECT SCHEMATIC.dgn

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

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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT SCHEMATIC  
 NAPERVILLE ROAD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	340
				CONTRACT NO. 62N32
		ILLINOIS	FED. AID PROJECT	



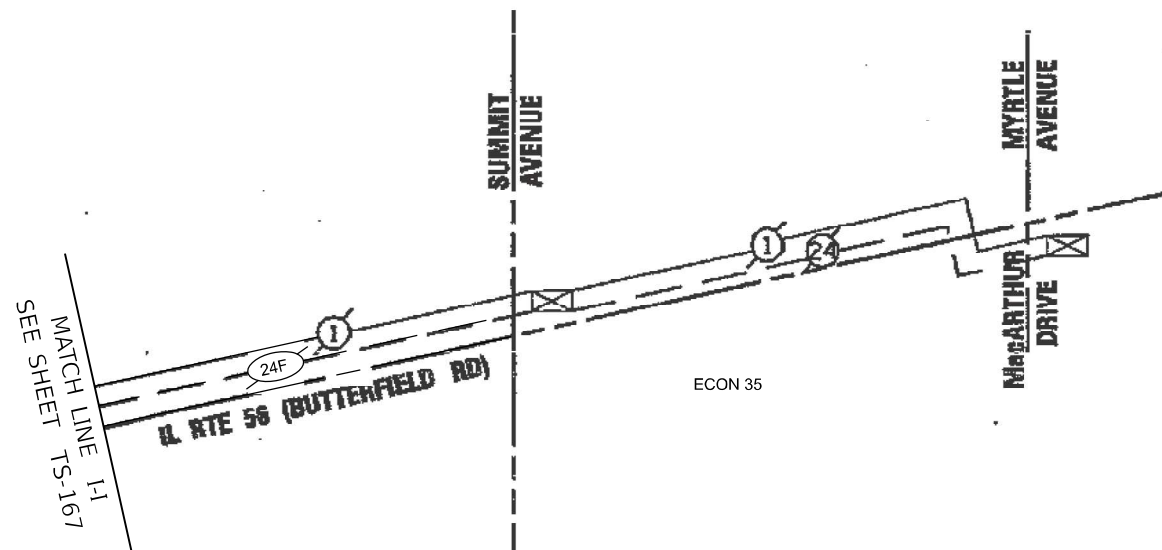
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	DRAWN - SR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - TM	REVISED -
PLOT DATE = 2/23/2024	DATE - 07/14/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

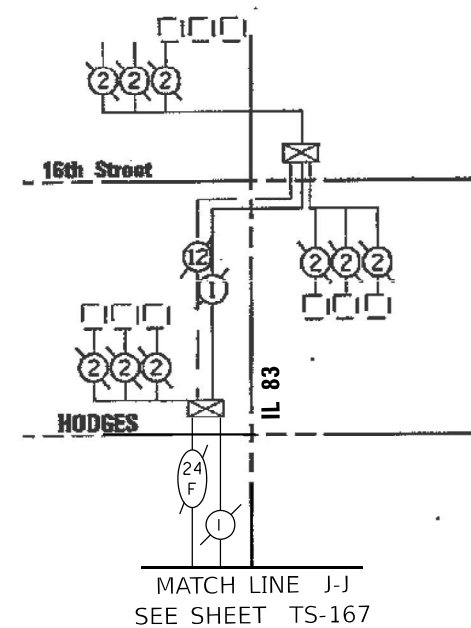
**INTERCONNECT SCHEMATIC  
22ND STREET**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	341
				CONTRACT NO. 62N32
		ILLINOIS	FED. AID PROJECT	



**NOTE:**  
AN IDOT EMC CONTRACT WILL INSTALL LEVEL II SWITCHES AND NECESSARY FIBER ON IL RTE 56 FROM CAMDEN CT. TO MYRTLE AVE./MACARTHUR DR. THESE INTERSECTION SHALL BE BROUGHT ONTO IDOT CENTRACS WITH THIS CONTRACT.



**NOTE:**  
AN IDOT EMC CONTRACT WILL INSTALL LEVEL II SWITCHES AND NECESSARY FIBER ON IL RTE 83 FROM 22ND ST. TO 16TH ST. THESE INTERSECTION SHALL BE BROUGHT ONTO IDOT CENTRACS WITH THIS CONTRACT.

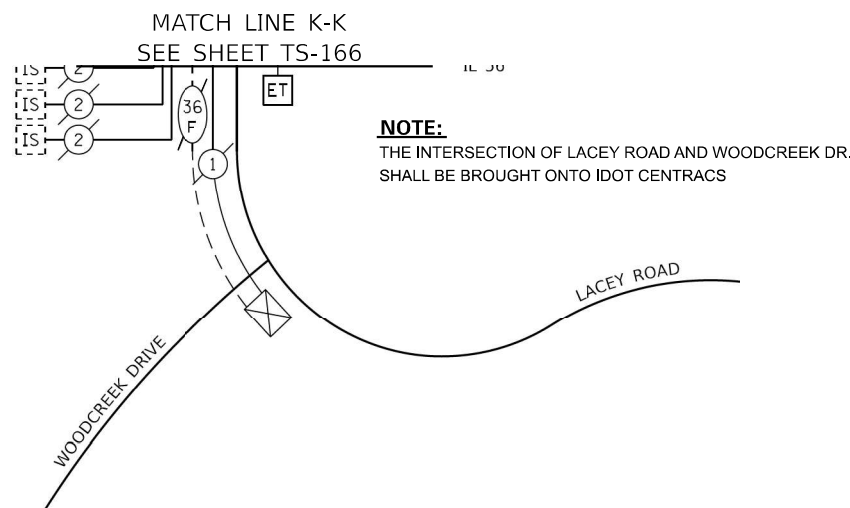
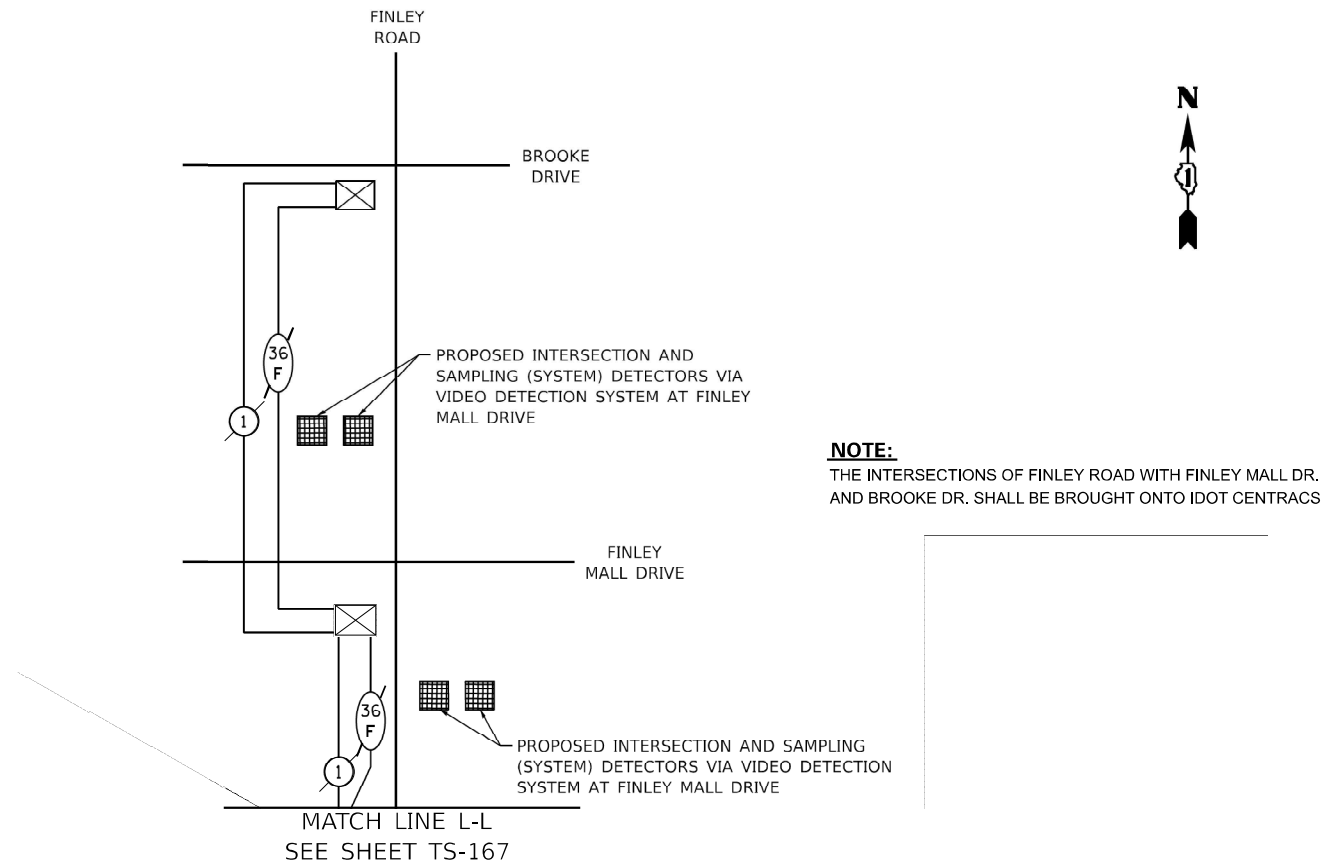
USER NAME = shassan	DESIGNED - TM	REVISED -
	DRAWN - SR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - TM	REVISED -
PLOT DATE = 2/23/2024	DATE - 07/14/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT SCHEMATIC  
FINLEY ROAD AND FINLEY MALL DRIVE**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	342
CONTRACT NO. 62N32			ILLINOIS FED. AID PROJECT	



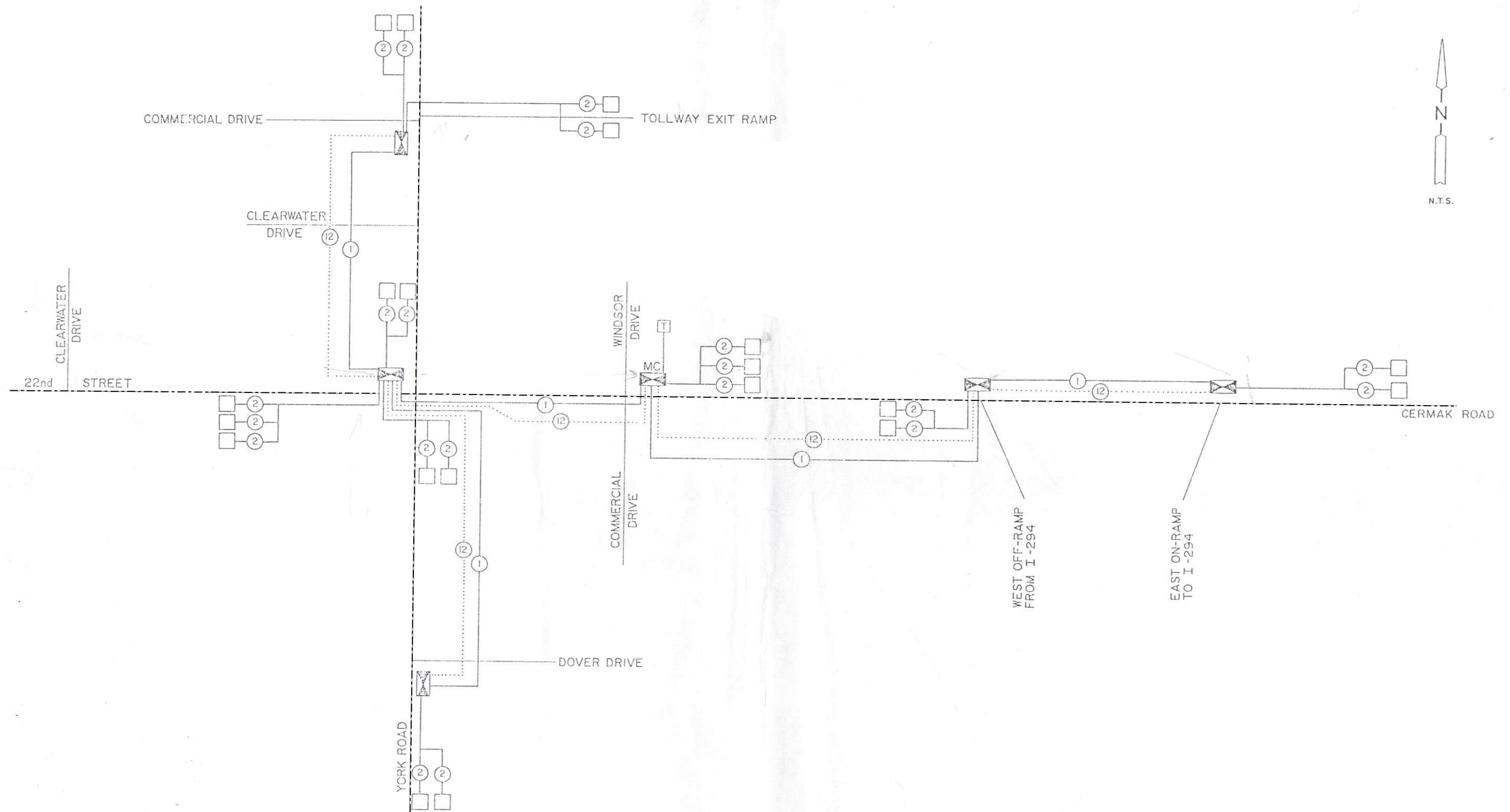
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	DRAWN - SR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - TM	REVISED -
PLOT DATE = 2/23/2024	DATE - 07/14/2023	REVISED -

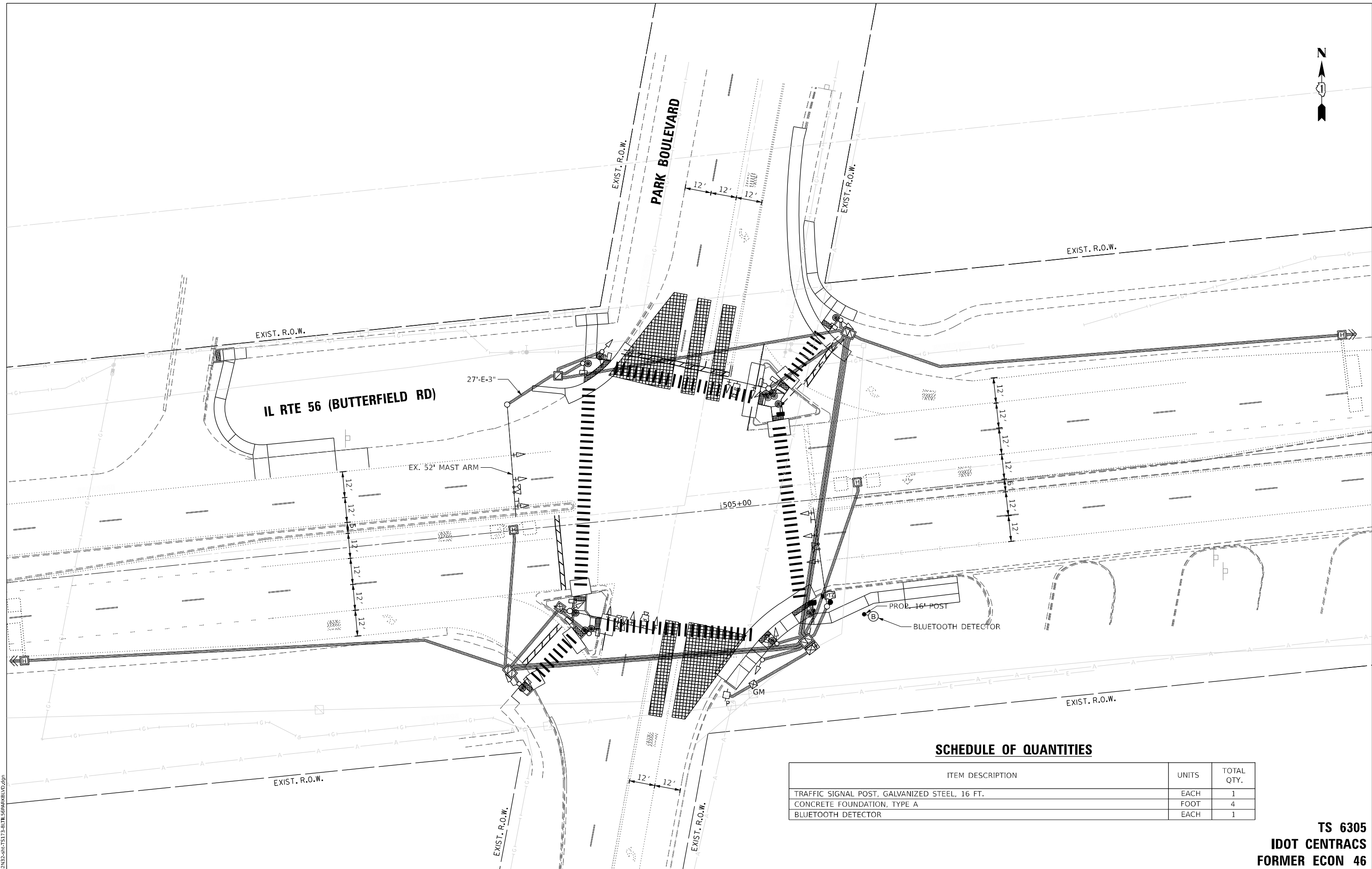
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT SCHEMATIC  
22ND STREET YORK RD. TO I-294**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	343
CONTRACT NO. 62N32			ILLINOIS FED. AID PROJECT	





**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
BLUETOOTH DETECTOR	EACH	1

TS SHT NO. 173  
 MODEL NAME: 62N32-265-SUR-TS173-BLTL56PARKBLVD.dgn  
 FILE NAME: D:\2020-265-SUR-TS173-BLTL56PARKBLVD.dgn

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

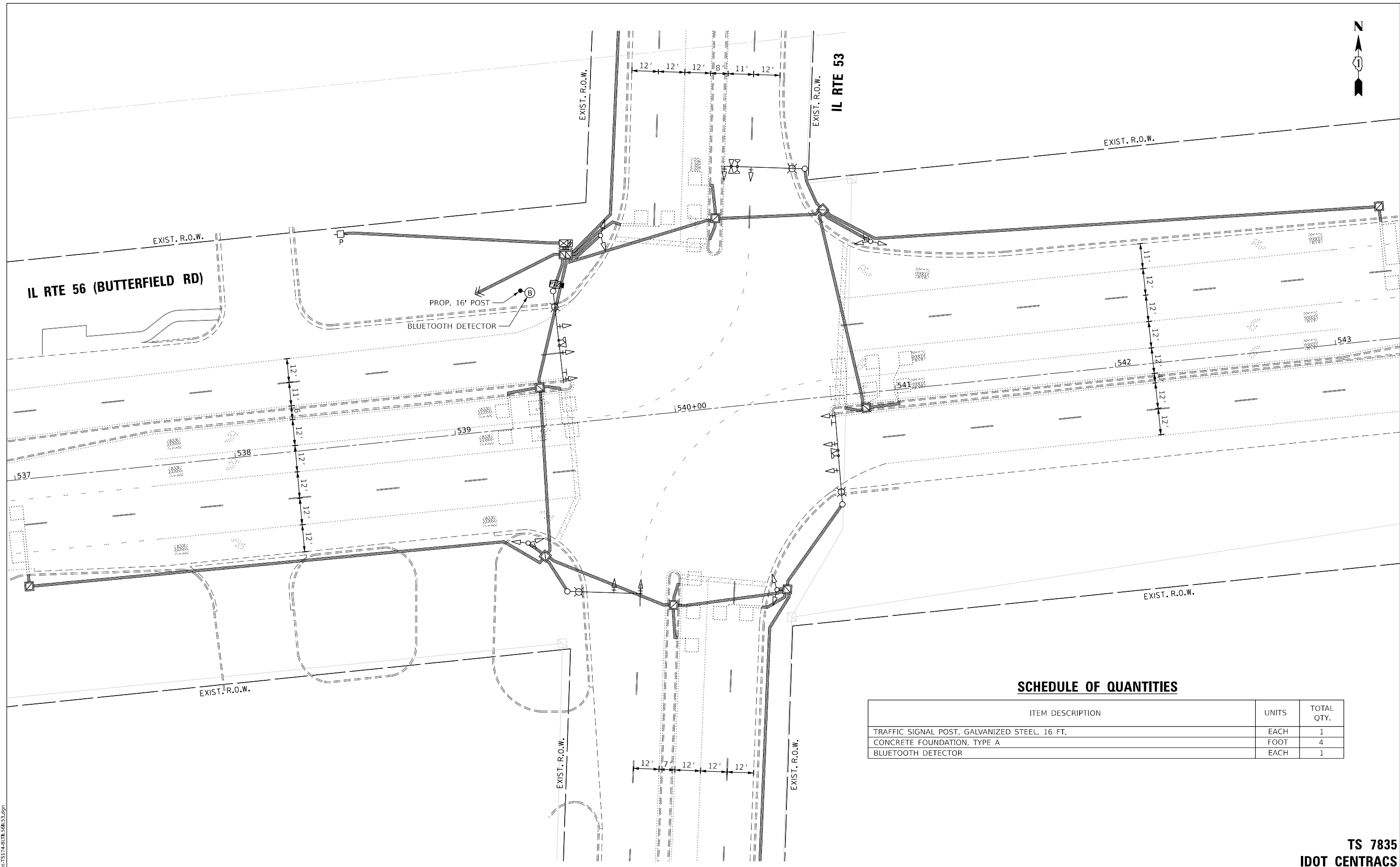
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	DRAWN - SR	REVISED -
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PLOT DATE = 2/23/2024	DATE - 07/14/2023	REVISED -

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

**BLUETOOTH INSTALLATION PLAN**  
**IL ROUTE 56 (BUTTERFIELD RD) AND PARK BOULEVARD**  
 SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	344
CONTRACT NO. 62N32				
ILLINOIS		FED. AID PROJECT		

**TS 6305**  
**IDOT CENTRACS**  
**FORMER ECON 46**



**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
BLUETOOTH DETECTOR	EACH	1

TS SHT NO. 174

MODEL NAME: 62N32-2020-265-SUR-TS174-BLTSIL56L53.dgn  
 FILE NAME: D:\2020-265-SUR-TS174-BLTSIL56L53.dgn

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

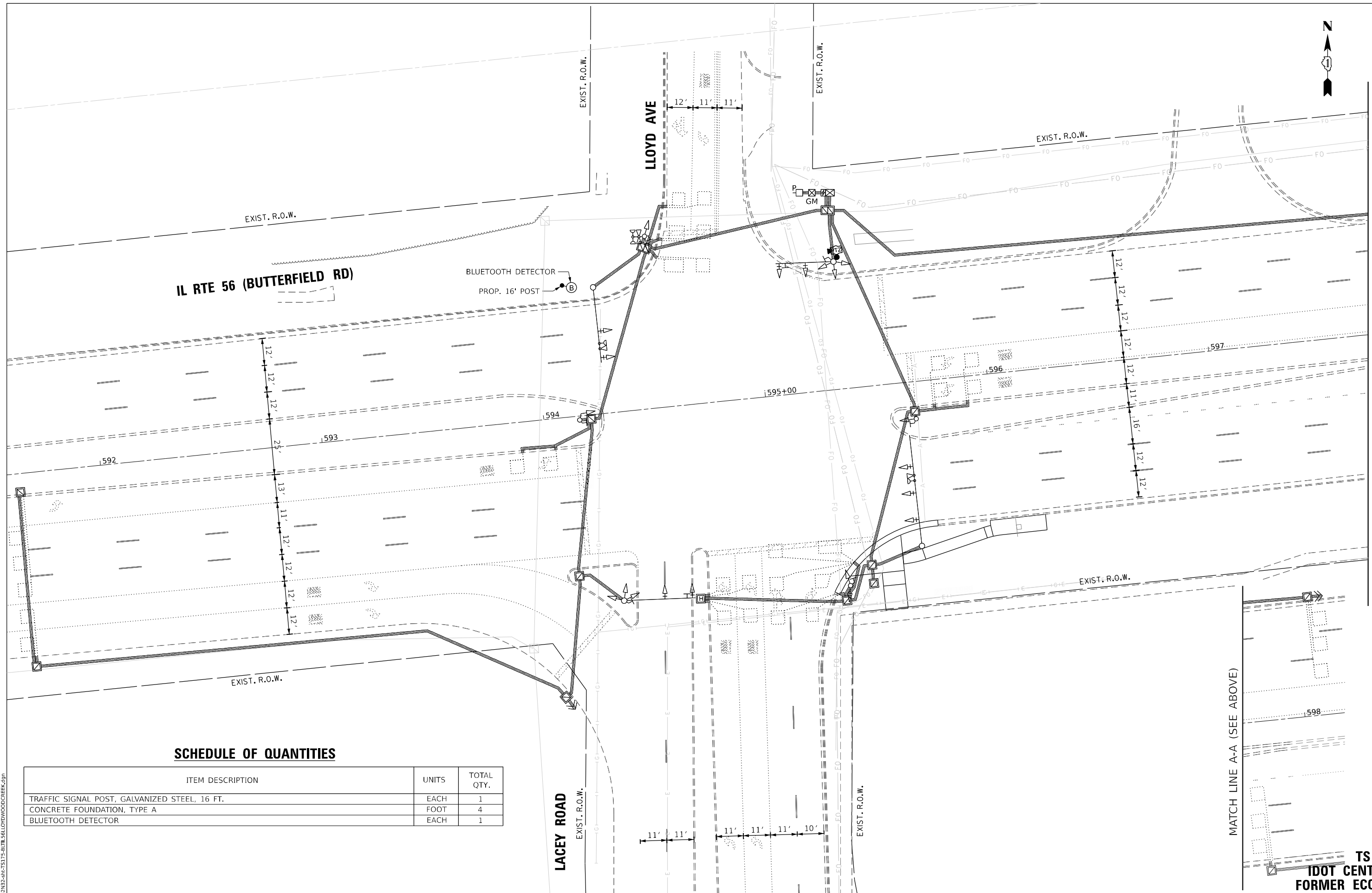
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BLUETOOTH INSTALLATION PLAN  
 IL ROUTE 56 (BUTTERFIELD RD) AND IL ROUTE 53**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	345
CONTRACT NO. 62N32				
ILLINOIS		FED. AID PROJECT		

**TS 7835  
 IDOT CENTRACS  
 FORMER ECON 46**



**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
BLUETOOTH DETECTOR	EACH	1

TS SHT NO. 175  
 MODEL NAME: 62N32-01-175-01  
 FILE NAME: D:\2020-265-SUR-TS\175-01\175-01-175-01.dwg

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

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

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

**BLUETOOTH INSTALLATION PLAN**  
**IL ROUTE 56 (BUTTERFIELD RD) AND LACEY ROAD/LLOYD AVENUE**

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

F.A.P. RTE. 365	SECTION 2020-265-SUR, SW & TS	COUNTY DUPAGE	TOTAL SHEETS 462	SHEET NO. 346
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

MATCH LINE A-A (SEE ABOVE)

MATCH LINE A-A (SEE BELOW)

**TS 6350**  
**IDOT CENTRACS**  
**FORMER ECON 41**



TS SHT NO. 176

MODEL NAME: D:\2022-2023\TS176-BTL\56FINLEY RD.dgn

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

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BLUETOOTH INSTALLATION PLAN  
IL ROUTE 56 (BUTTERFIELD RD) AND FINLEY ROAD

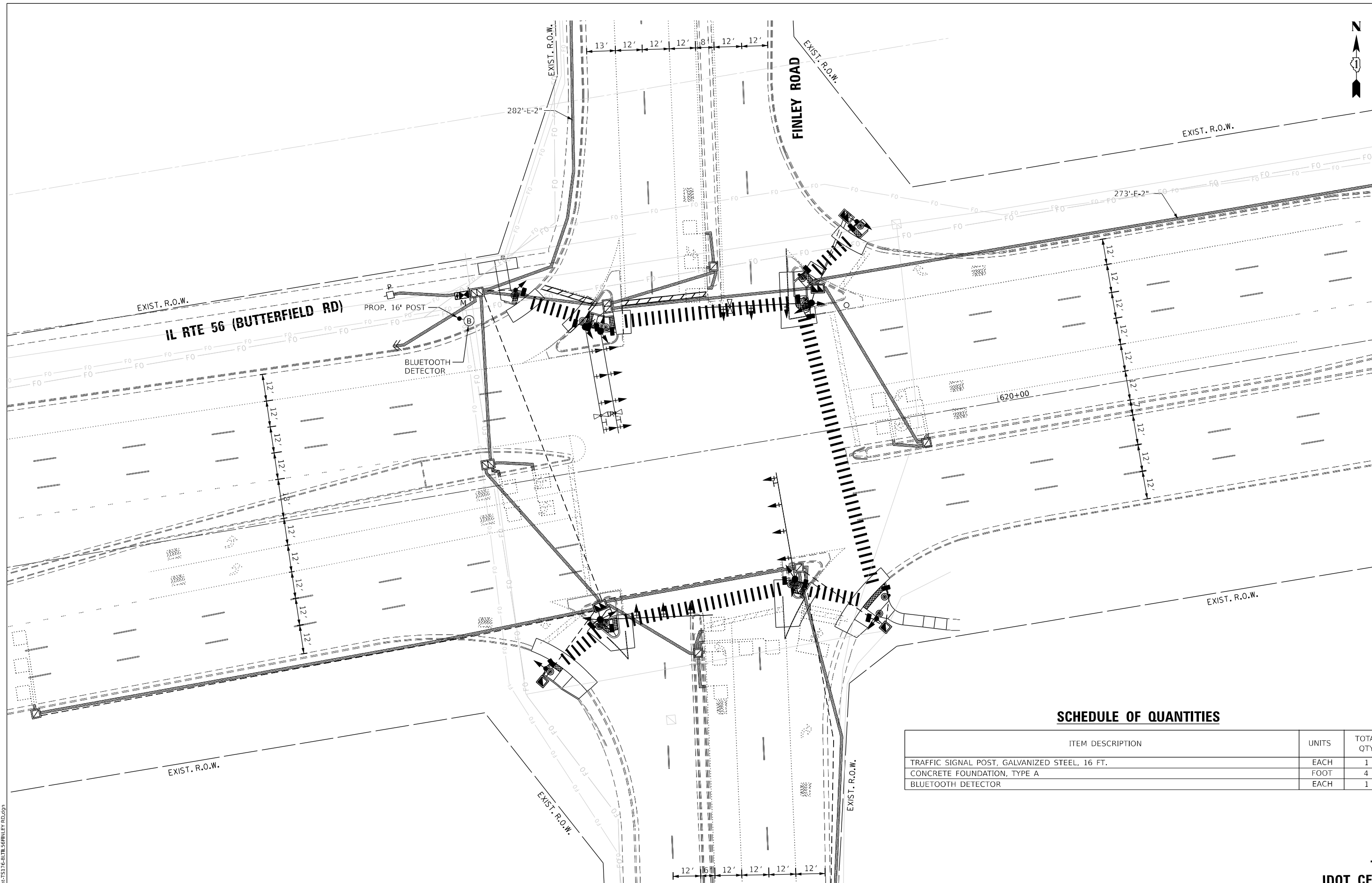
SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	347
CONTRACT NO. 62N32			ILLINOIS FED. AID PROJECT	

TS 6275  
IDOT CENTRACS  
FORMER ECON 41

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
BLUETOOTH DETECTOR	EACH	1

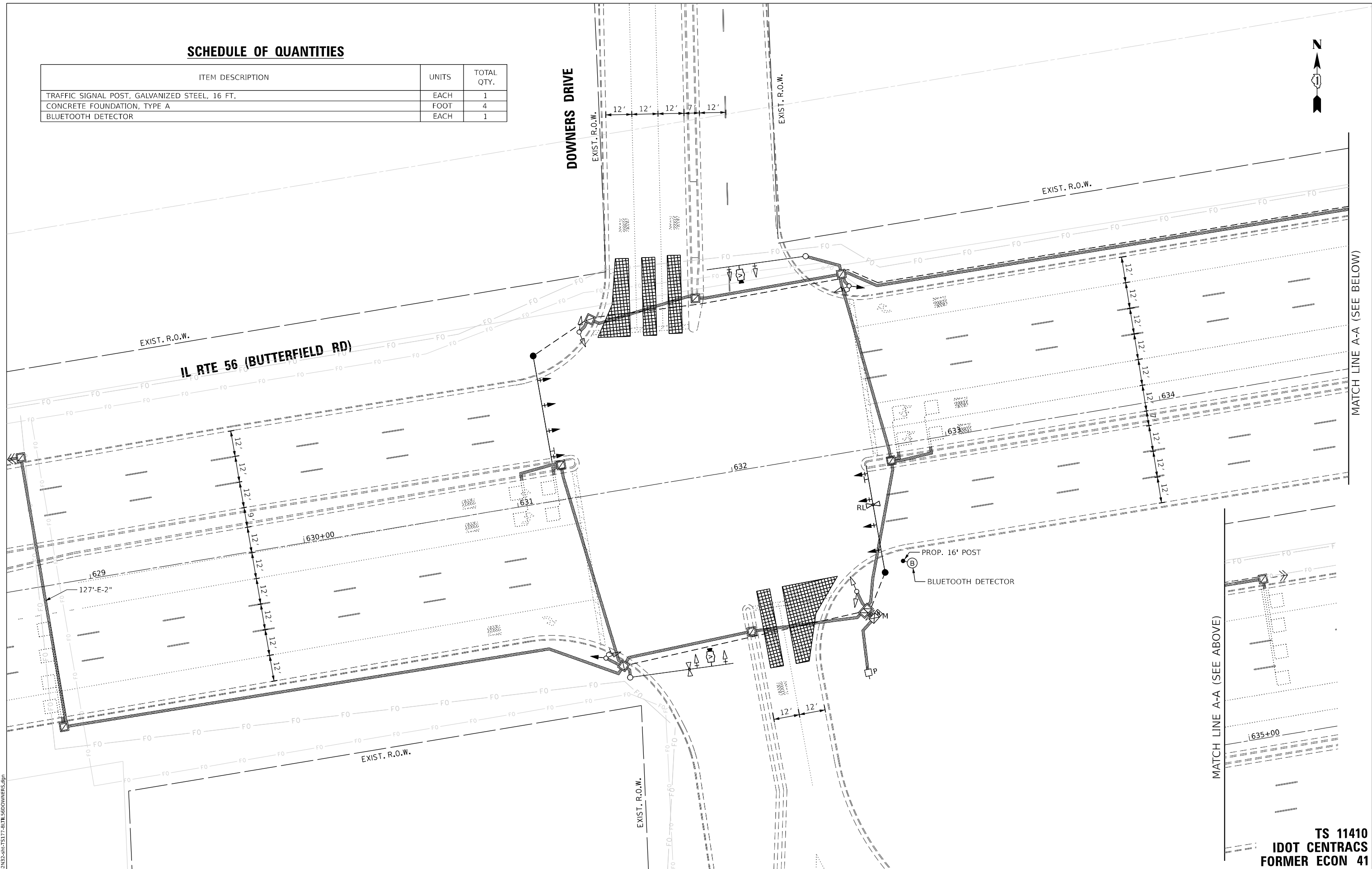


MATCH LINE C-C (SEE NEXT SHEET)



**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
BLUETOOTH DETECTOR	EACH	1



**TS SHT NO. 177**

MODEL NAME: D:\ENR22-215177-BITL56DOWNERS.dgn  
 FILE NAME: D:\ENR22-215177-BITL56DOWNERS.dgn

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

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

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

**BLUETOOTH INSTALLATION PLAN**  
**IL ROUTE 56 (BUTTERFIELD RD) AND DOWNERS DRIVE**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	348
CONTRACT NO. 62N32				

MATCH LINE A-A (SEE ABOVE)

MATCH LINE A-A (SEE BELOW)

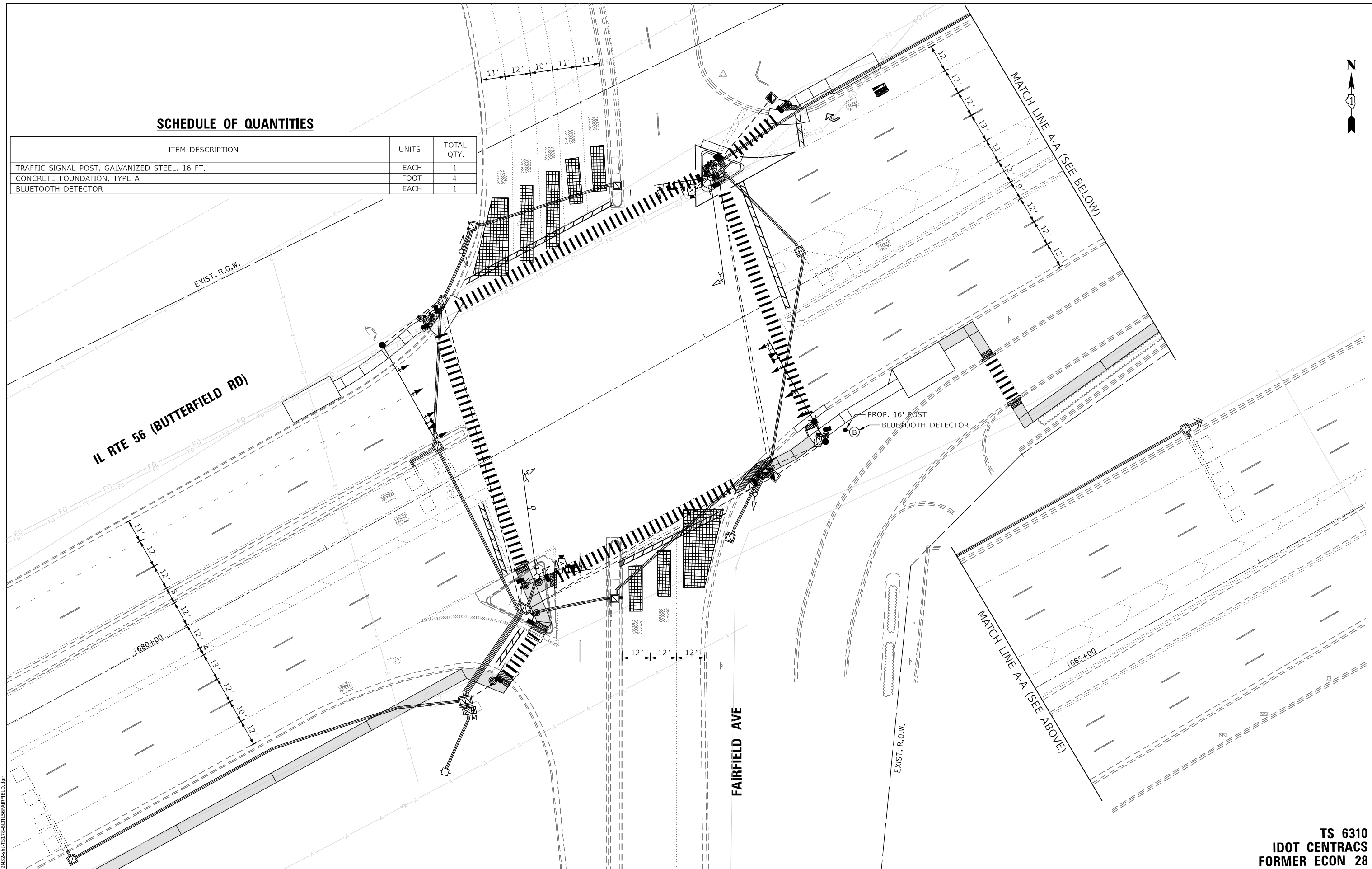
**TS 11410**  
**IDOT CENTRACS**  
**FORMER ECON 41**

ILLINOIS FED. AID PROJECT



**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
BLUETOOTH DETECTOR	EACH	1



TS SHT NO. 178

MODEL NAME: D:\ENR22-01\TS178-BL\IL56FAIRFIELD.dgn

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

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BLUETOOTH INSTALLATION PLAN  
IL ROUTE 56 (BUTTERFIELD RD) AND FAIRFIELD AVENUE**

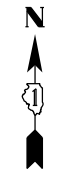
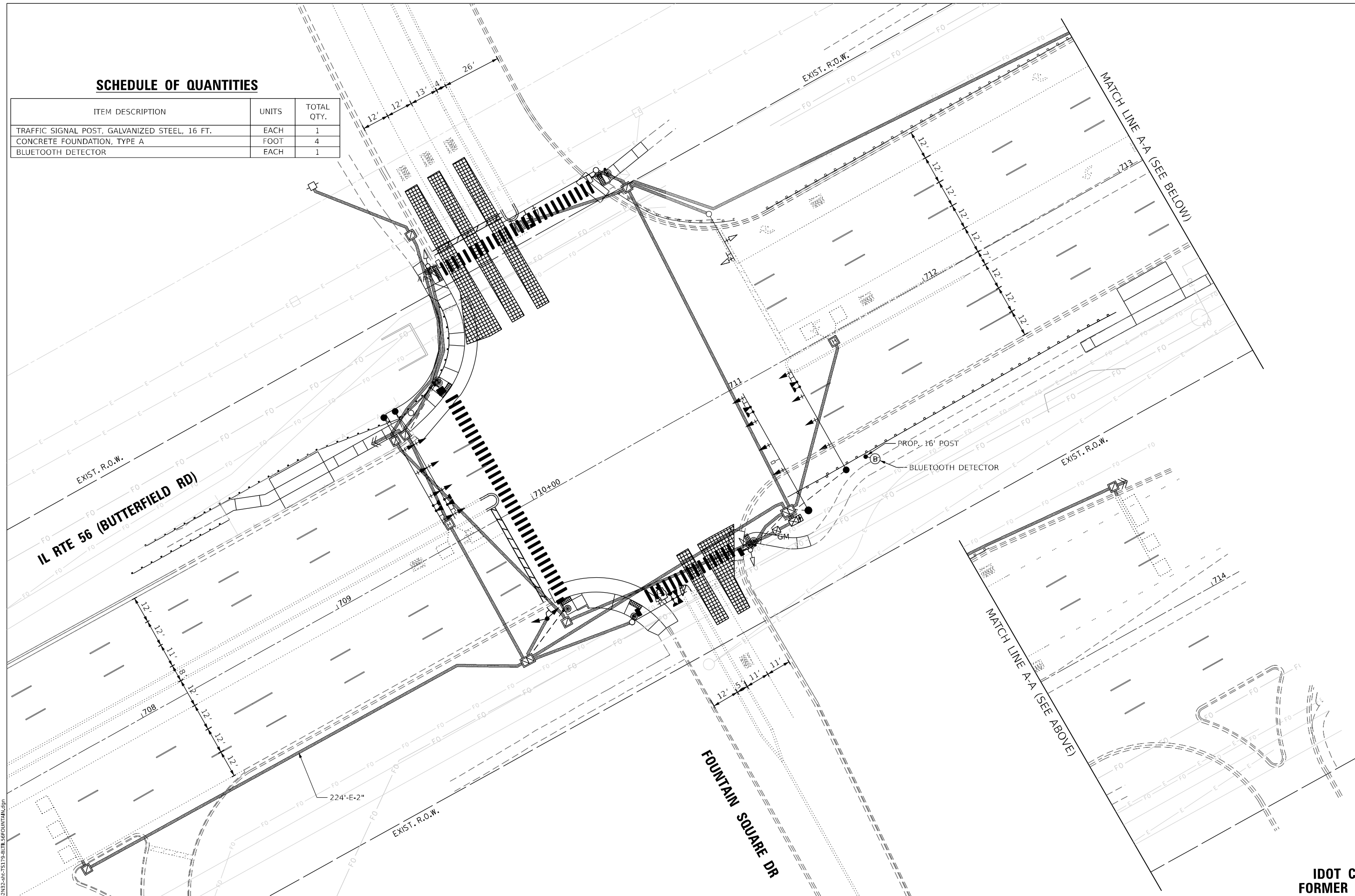
SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	349
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

**TS 6310  
IDOT CENTRACS  
FORMER ECON 28**

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
BLUETOOTH DETECTOR	EACH	1



TS SHT NO. 179

MODEL: 4400BENAMES  
FILE NAME: D:\2022-2023\2023-2024\TS179-BITL 56 FOUNTAIN.dgn

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

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

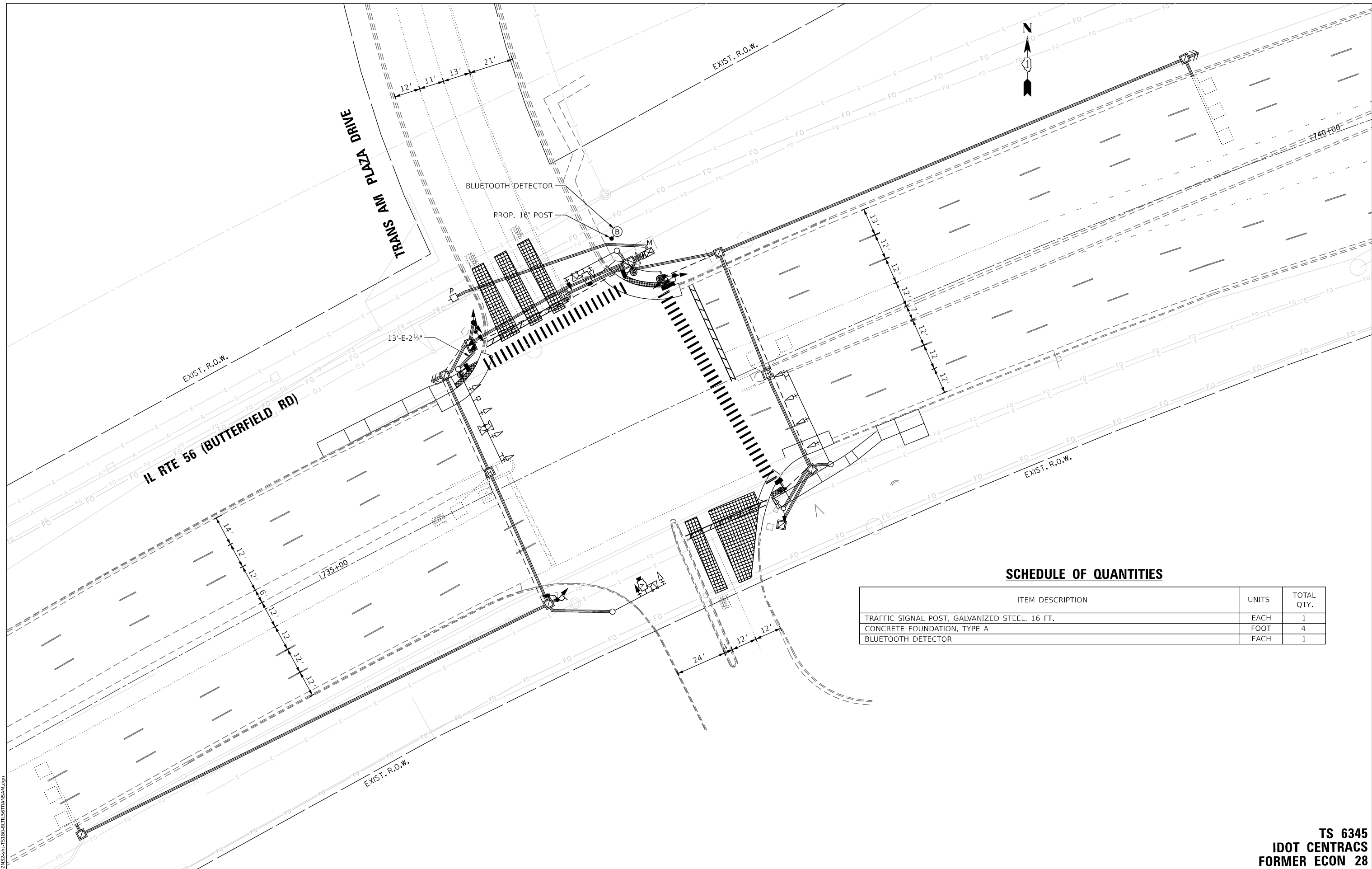
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BLUETOOTH INSTALLATION PLAN**  
**IL ROUTE 56 (BUTTERFIELD RD) AND FOUNTAIN SQUARE DRIVE**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	350
CONTRACT NO. 62N32			ILLINOIS FED. AID PROJECT	

**TS 6293**  
**IDOT CENTRACS**  
**FORMER ECON 28**

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



**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
BLUETOOTH DETECTOR	EACH	1

TS SHT NO. 180

MODEL NAME: D:\2022-23\2022-23\TS180-BITL56TRANSAM.dgn

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

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BLUETOOTH INSTALLATION PLAN  
IL ROUTE 56 (BUTTERFIELD RD) AND TRANS AM PLAZA DRIVE**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	351
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

**TS 6345  
IDOT CENTRACS  
FORMER ECON 28**

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

TS SHT NO. 181

MODEL NAME: D:\2023\2023-2024\TS181-BIT22ND-ST\_SHOPS AT OAKBROOK.dgn

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

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

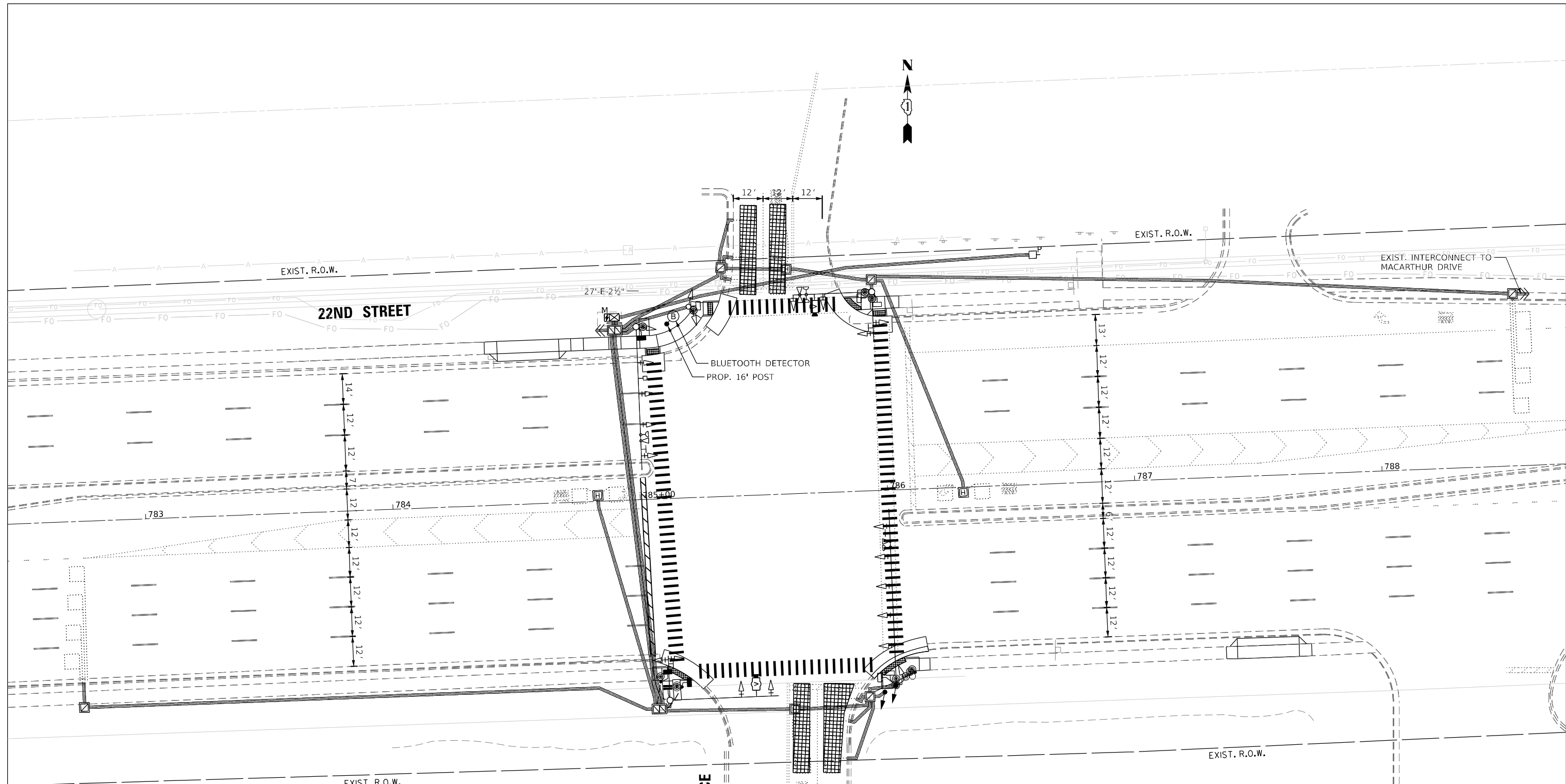
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BLUETOOTH INSTALLATION PLAN  
22ND STREET AND SHOPS AT OAK BROOK PLACE**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	352
CONTRACT NO. 62N32			ILLINOIS FED. AID PROJECT	

**TS 8377  
IDOT CENTRACS  
FORMER ECON 35**



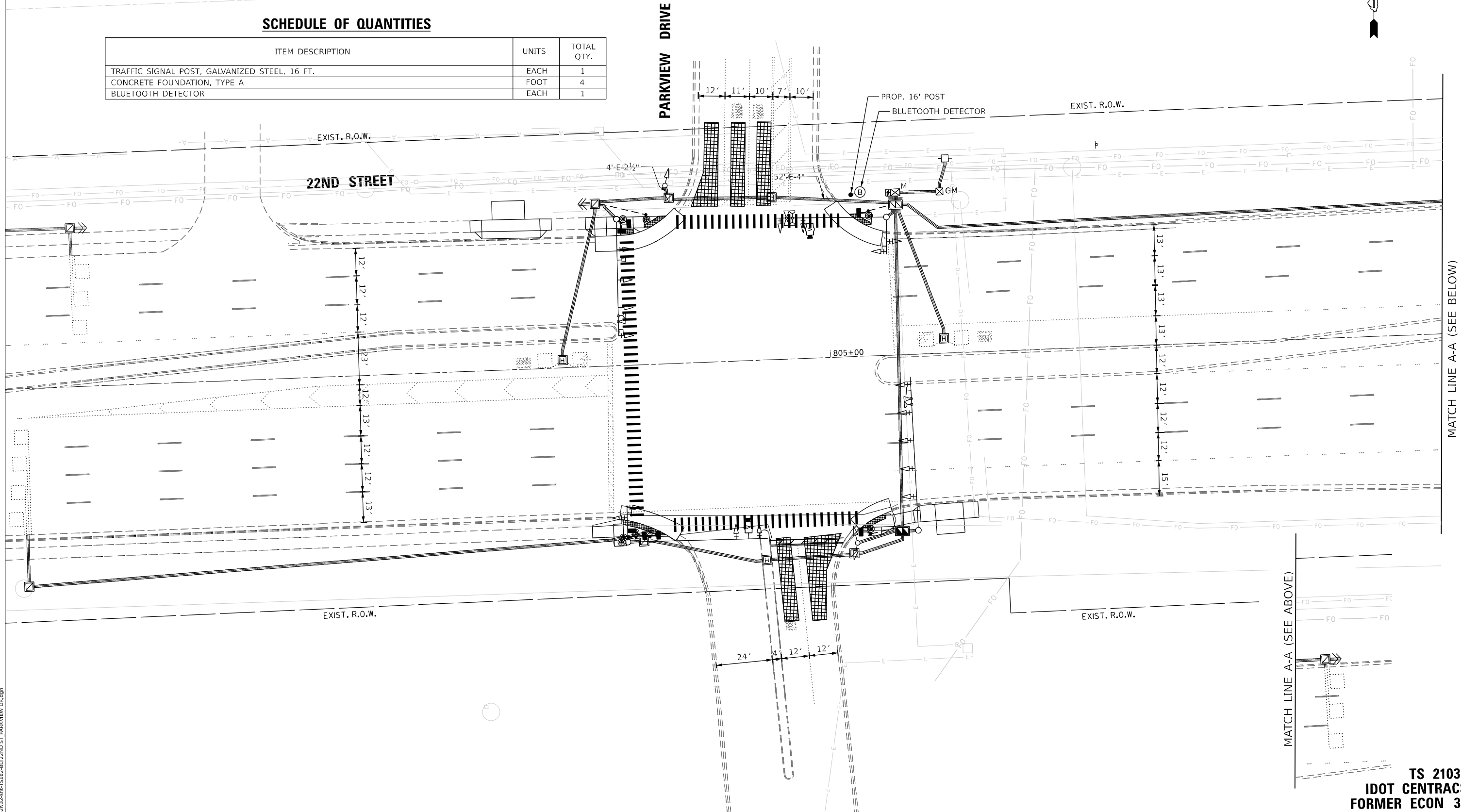
**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
BLUETOOTH DETECTOR	EACH	1



**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
BLUETOOTH DETECTOR	EACH	1



**TS SHT NO. 182**

MODEL NAME: 2020-265-SUR-SW-TS  
 FILE NAME: D:\2020-265-SUR-SW-TS\182-BIT22ND-ST-PARKVIEW-DR.dgn

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

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

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

**BLUETOOTH INSTALLATION PLAN**  
**22ND STREET AND PARKVIEW DRIVE**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	353
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

MATCH LINE A-A (SEE ABOVE)

MATCH LINE A-A (SEE BELOW)

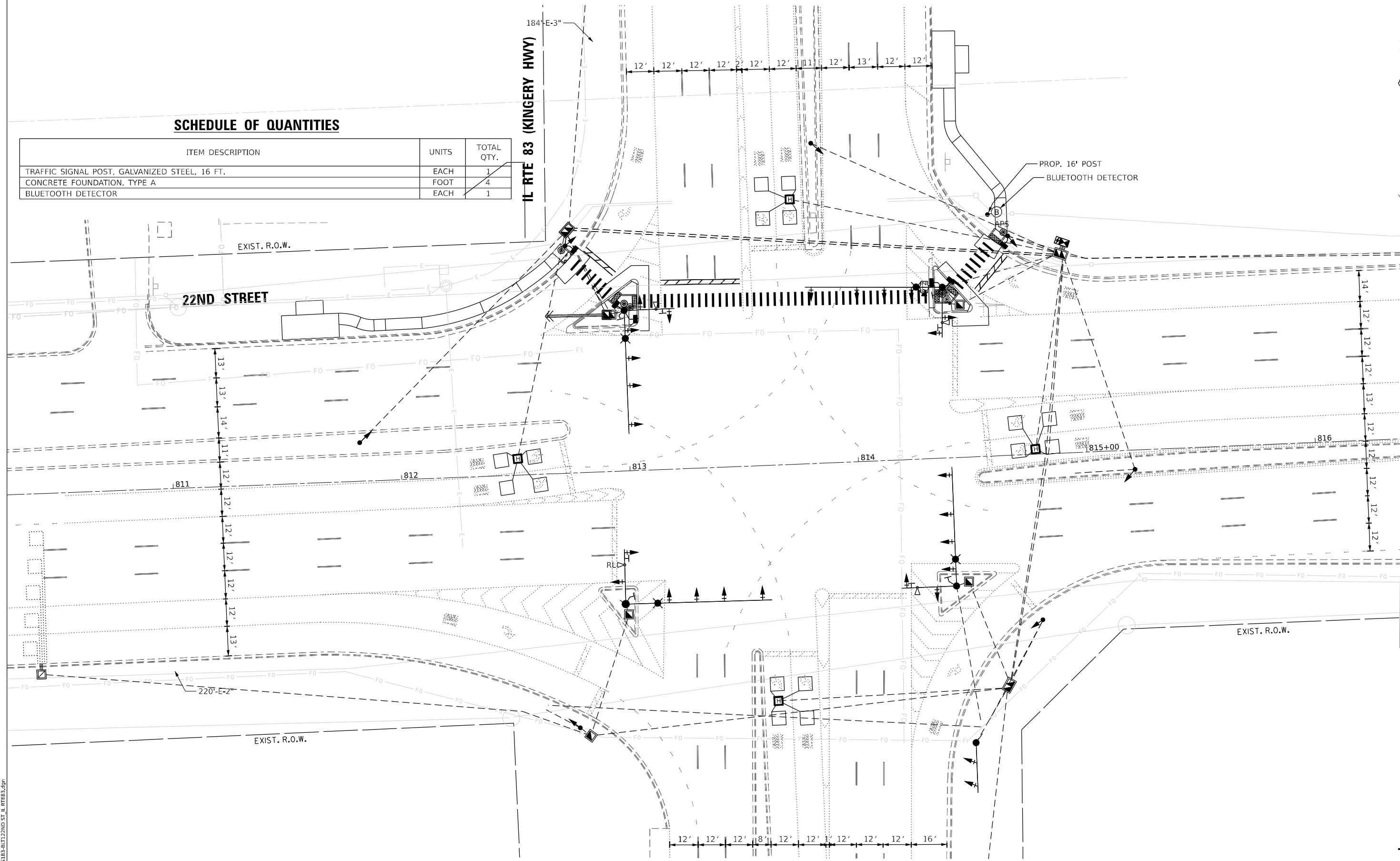
**TS 21035**  
**IDOT CENTRACS**  
**FORMER ECON 35**



**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
BLUETOOTH DETECTOR	EACH	1

IL RTE 83 (KINGERY HWY)



MATCH LINE A-A (SEE NEXT SHEET)

TS SHT NO. 183

MODEL NAME: D:\2022-2025\265-SUR\22ND ST, IL RTE83.dgn

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BLUETOOTH INSTALLATION PLAN  
22ND STREET AND IL ROUTE 83 (KINGERY HWY)**

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

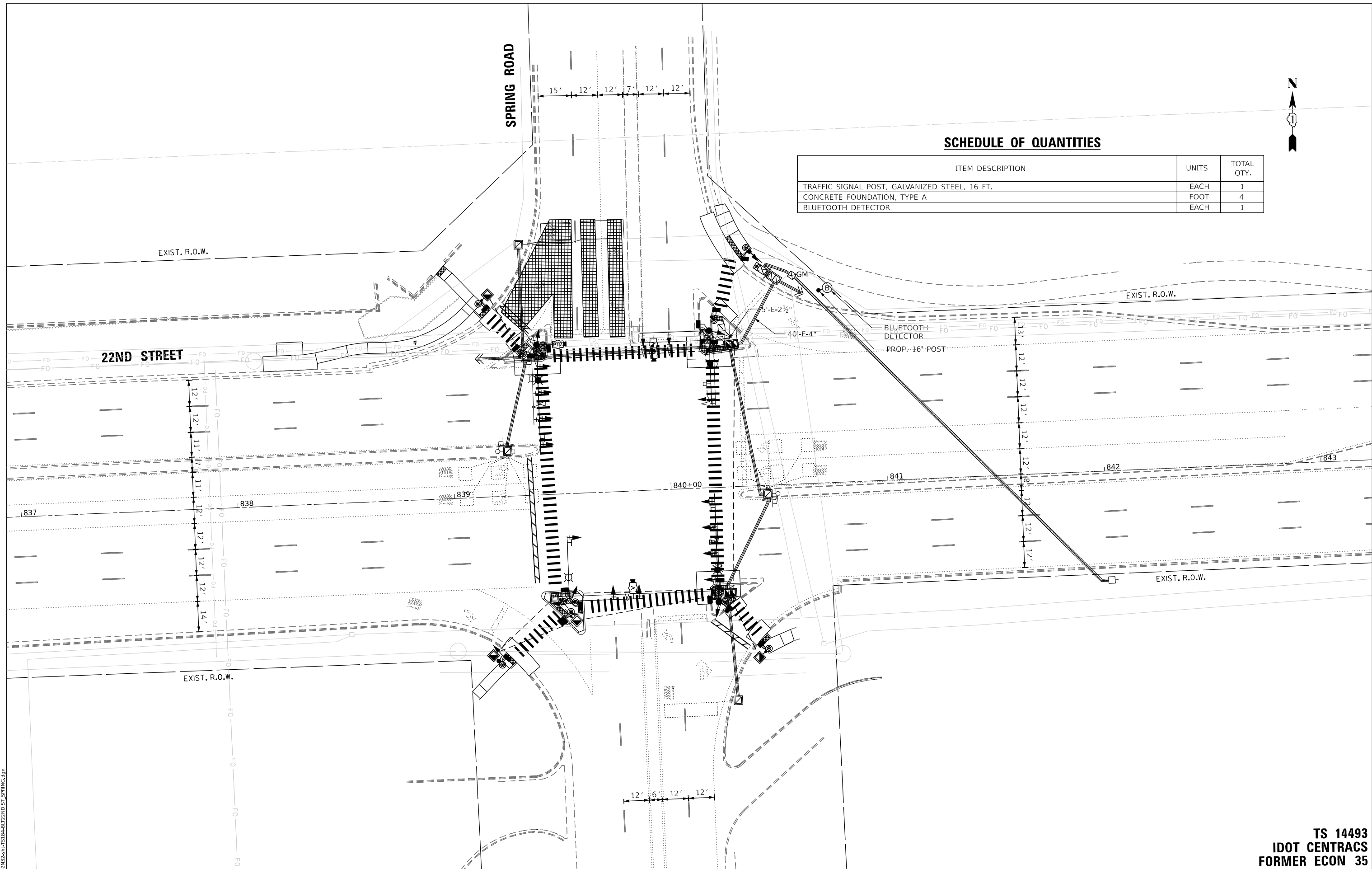
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	354
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

**TS 550  
IDOT CENTRACS  
FORMER ECON 35**



**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
BLUETOOTH DETECTOR	EACH	1



**TS SHT NO. 184**

MODEL NAME: TS184.dgn  
 FILE NAME: D:\2023\2023-265\2023-265-SUR\SW&TS\184-BIT22ND\_ST\_SPRING.dgn

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

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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BLUETOOTH INSTALLATION PLAN  
 22ND STREET AND SPRING ROAD**

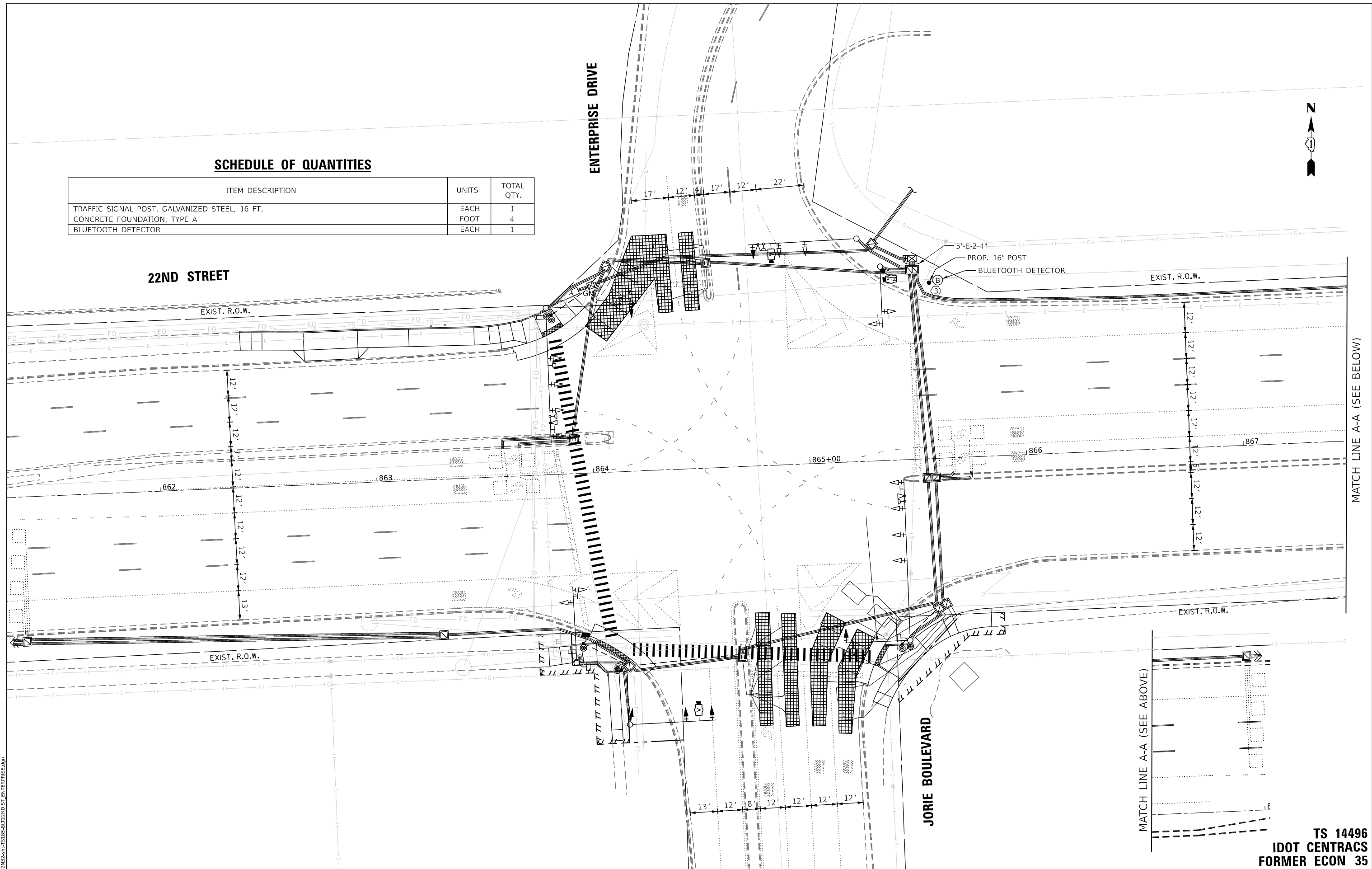
SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	355
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

**TS 14493  
 IDOT CENTRACS  
 FORMER ECON 35**

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
BLUETOOTH DETECTOR	EACH	1



TS SHT NO. 185  
 MODEL NAME: D:\2023\2023-2024\TS14496-BIT22ND\_ST\_ENTERPRISE.dwg

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

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

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

**BLUETOOTH INSTALLATION PLAN**  
**22ND STREET AND ENTERPRISE DRIVE/JORIE BOULEVARD**  
 SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	356
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

**TS 14496**  
**IDOT CENTRACS**  
**FORMER ECON 35**

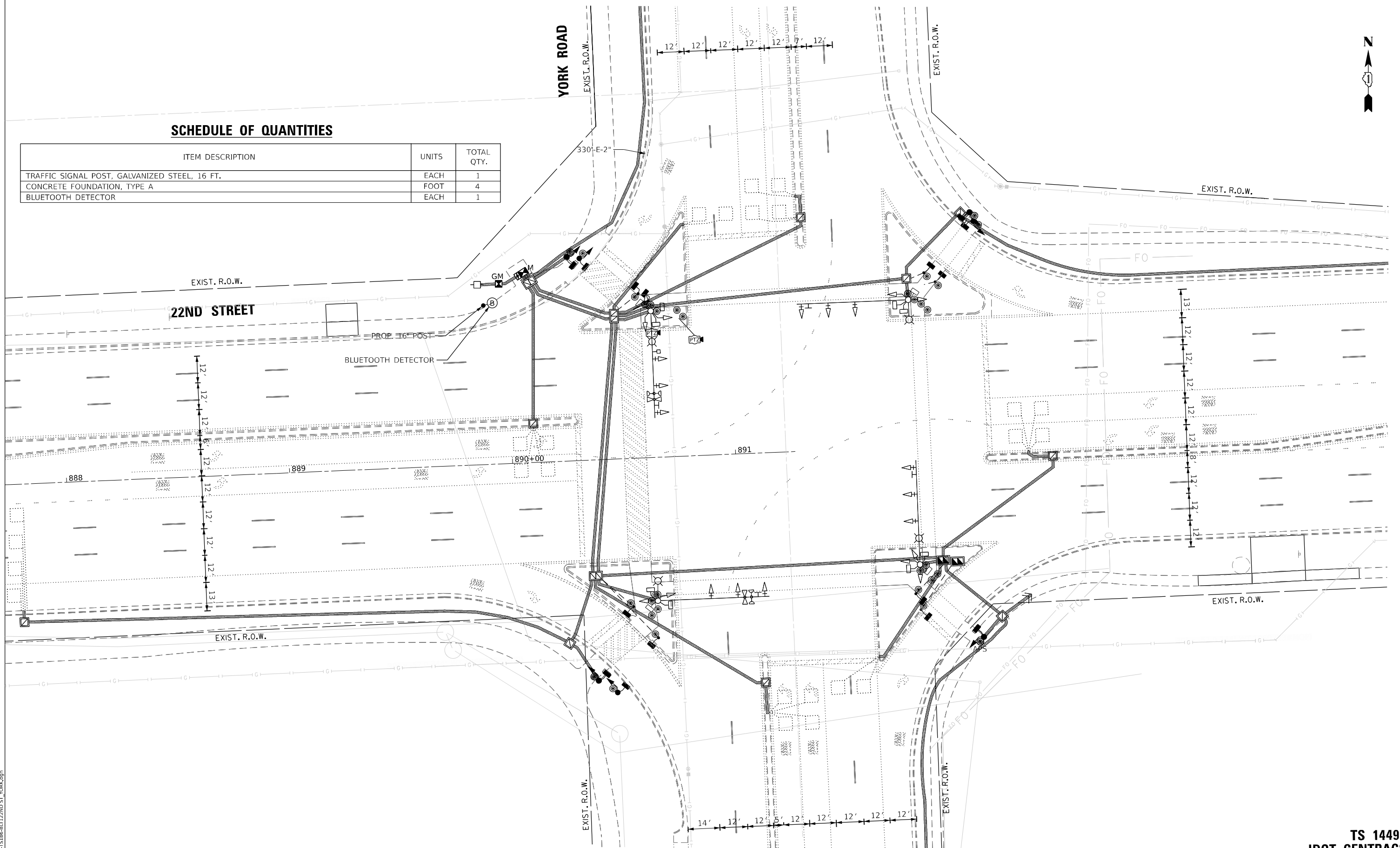
MATCH LINE A-A (SEE BELOW)

MATCH LINE A-A (SEE ABOVE)



**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
BLUETOOTH DETECTOR	EACH	1



TS SHT NO. 186

MODEL: \\MS01\BEN\AMES  
FILE NAME: D:\2020-265-SUR\TS186-BITT22ND ST\_YORK.dgn

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

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

DESIGNED - JR	REVISED -
DRAWN - SR	REVISED -
CHECKED - JR	REVISED -
DATE - 07/14/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BLUETOOTH INSTALLATION PLAN  
22ND STREET AND YORK ROAD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	357
CONTRACT NO. 62N32				
ILLINOIS		FED. AID PROJECT		

**TS 14495  
IDOT CENTRACS  
FORMER ECON 101**

## GENERAL NOTES:






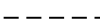




- THIS PROJECT INCLUDES THE INSTALLATION OF FIBER BACKBONE ALONG IL ROUTE 56 FROM IL ROUTE 59 TO YORK RD. THE PROJECT ALSO INCLUDES INSTALLATION OF NEW FIBER OPTIC CABLE AND DUCT WHERE NONE EXISTS. THE PLANS WILL CONNECT THE FIBER TO CURRENT TRAFFIC SIGNAL SYSTEMS, REMOTE CCTV AND DMS LOCATIONS. THIS EXISTING ITS SYSTEM IS OWNED AND MAINTAINED BY THE STATE OF ILLINOIS. MAINTENANCE OF THE ITS SYSTEM SHALL BE TRANSFERRED TO THE CONTRACTOR PRIOR TO BEGINNING ANY WORK ON THE CONTRACT.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL JULIE AT 811, OR (800)892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED. IDOT FACILITIES ARE NOT LOCATED BY JULIE OR DIGGER. IDOT ELECTRICAL FACILITIES INCLUDING ROADWAY LIGHTING, FIBER OPTIC, ITS EQUIPMENT, TRAFFIC SIGNAL AND PUMP STATION FACILITIES ARE LOCATED BY THE DEPARTMENT'S ELECTRICAL MAINTENANCE CONTRACTOR. AS OF THE LETTING DATE, CONTACT THE MEADE ELECTRIC COMPANY AT 773-287-7672.
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), LIFE SAFETY CODE (NFPA 101), OSHA AND ILLINOIS TOLLWAY AND ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATION REQUIREMENTS. ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE U/L LISTED AND LABELED.
- THE DUCTS AND INNER DUCTS SHOULD BE KEPT FREE OF DEBRIS AND MAINTAINED WATERTIGHT AT ALL TIMES.
- THE QUANTITIES OF RACEWAY WHEREVER INDICATED ON THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE ALL ELECTRICAL WORK.
- PROPOSED CONDUIT ROUTES SHOWN IN THE PLANS ARE SCHEMATIC ONLY. CONTRACTOR TO VERIFY EXACT ROUTE WITH THE ENGINEER.
- FIBER OPTIC CONDUIT SHALL BE INSTALLED A MINIMUM OF 42" BELOW GRADE.
- FIBER OPTIC DISTRIBUTION AND TRUNK CABLES SHALL BE INSTALLED BETWEEN COMMUNICATIONS VAULTS, NODE CABINETS, AND BUILDINGS AS SHOWN ON THE PLANS. FIBER OPTIC DISTRIBUTION AND TRUNK CABLES SHALL ONLY BE INSTALLED THROUGH HEAVY-DUTY COMMUNICATIONS HANDHOLES WHERE PULL POINTS ARE REQUIRED IN SHOULDERS, FIBER OPTIC CABLE SLACK SHALL BE AS FOLLOWS:  
50 FEET FOR EACH CABLE (144 AND 12 FIBER) IN HEAVY-DUTY HANDHOLES.  
100 FEET FOR EACH CABLE (144 AND 12 FIBER) IN COMMUNICATIONS VAULTS.
- THE CONTRACTOR SHALL FOLLOW JULIE PROCEDURES AND PERFORM FIELD ADJUSTMENTS TO PROTECT AND PROVIDE 12" MINIMUM CLEARANCE FROM LUMEN AND AT&T FACILITIES.
- THE PROPOSED FIBER OPTIC INNERDUCT SHALL BE INSTALLED WITH 2FT. VERTICAL CLEARANCE FROM THE EXISTING GAS MAIN.
- THE PROPOSED FIBER OPTIC CABLE SHALL BE INSTALLED WITH 1 FT. VERTICAL CLEARANCE AND 1.5 FT. HORIZONTAL CLEARANCE FROM THE EXISTING GAS MAIN.
- THE PROPOSED 4" UNDERGROUND CONDUIT SHALL BE INSTALLED WITH 2 FT. VERTICAL CLEARANCE AND 1.5 FT. HORIZONTAL CLEARANCE FROM THE EXISTING GAS MAIN.
- THE PROPOSED COMMUNICATION VAULTS SHALL BE INSTALLED WITH 2 FT. HORIZONTAL CLEARANCE FROM THE EXISTING GAS MAIN.
- THE CONTRACTOR SHALL WATCH AND PROTECT THE EXISTING GAS MAIN DURING THE CONSTRUCTION PHASE.

CELL NO.	CELL COLOR	CELL ALLOCATION
1	BLUE	144F IDOT (TCF)
2	ORANGE	144F IDOT (DCF)
3	GREEN	SPARE
4	BROWN	SPARE
5	GREY	SPARE
6	WHITE	SPARE
7	RED	SPARE

## BILL OF MATERIALS

DESCRIPTION	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	9,718
CONDUIT ATTACHED TO STRUCTURE, PVC COATED GALVANIZED STEEL, 4" DIA.	FOOT	1,000
DRILL EXISTING HANDHOLE	EACH	36
FIBER OPTIC CABLE SPLICE - LATERAL	EACH	36
FIBER OPTIC CABLE SPLICE - MAINLINE	EACH	2
FIBER OPTIC INNERDUCT 1 1/4" DIA.	FOOT	2,286
FIBER OPTIC CABLE IN CONDUIT, 24 FIBERS, SINGLE MODE	FOOT	2,286
FIBER OPTIC CABLE, MICRO, 144 FIBERS, SINGLE MODE	FOOT	167,552
UNDERGROUND CONDUIT, MULTIDUCT, 7-18MM MICRODUCTS	FOOT	78,471
COMMUNICATIONS VAULT	EACH	84

## LEGEND

	EXISTING HANDHOLE
	EXISTING HEAVY-DUTY HANDHOLE
	EXISTING TRAFFIC SIGNAL CONTROLLER CABINET
	EXISTING DOUBLE HANDHOLE
	PVC COATED GALVANIZED STEEL CONDUIT AS SPECIFIED ON PLAN
	PROPOSED FIBER OPTIC CABLE IN PROPOSED DUCT AS SPECIFIED ON PLAN
	PROPOSED FIBER OPTIC CABLE IN UNDERGROUND CONDUIT, MULTI DUCT, 7-18MM MICRODUCTS
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. WITH FIBER OPTIC CABLE IN DUCT (UCGS)
	STAINLESS STEEL JUNCTION BOX ATTACHED TO STRUCTURE AS INDICATED ON PLANS
	COMMUNICATIONS VAULT (CMV)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

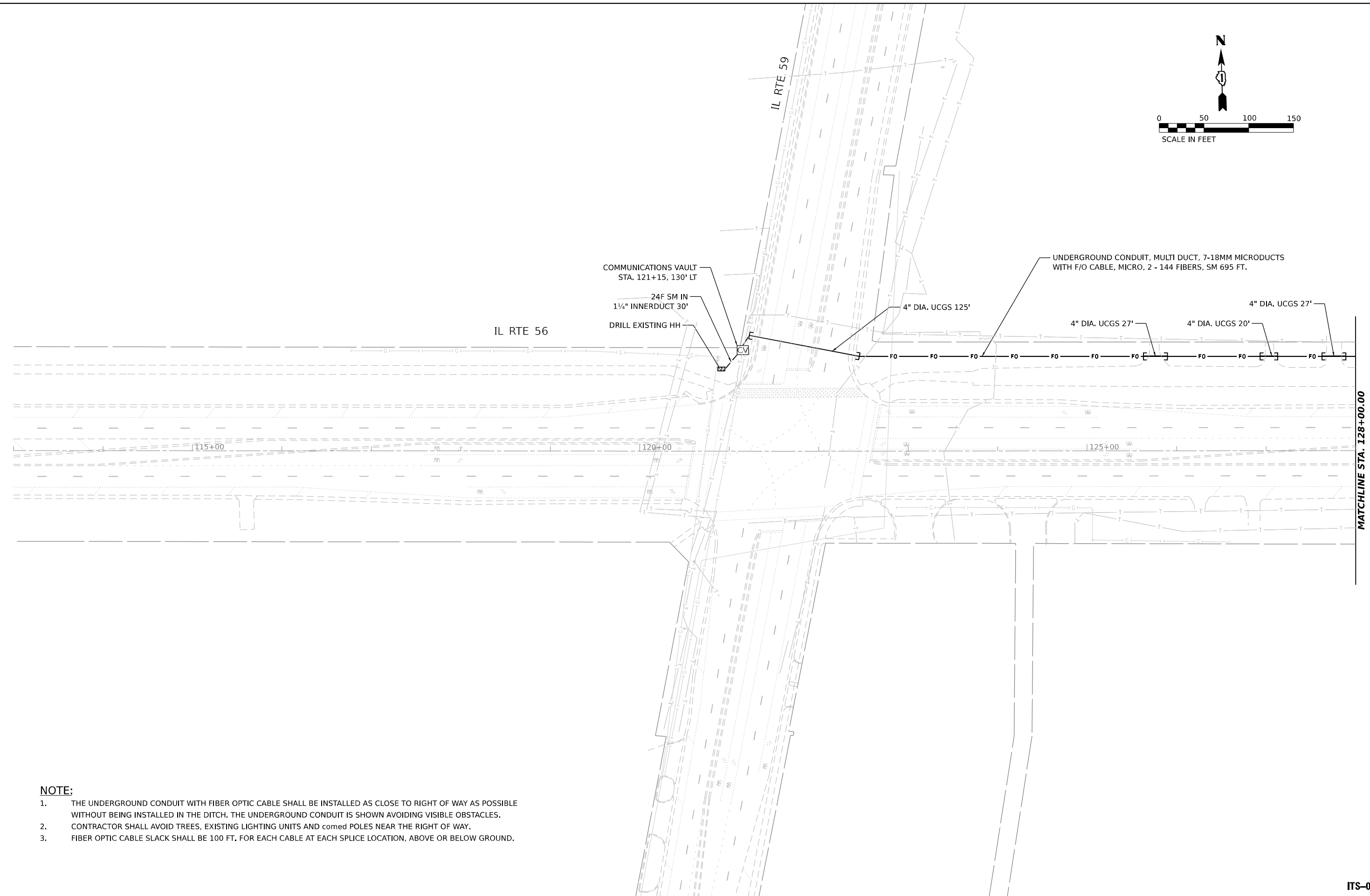
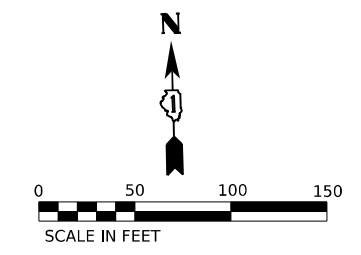
IDOT ITS GENERAL NOTES,  
BILL OF MATERIALS AND LEGEND

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	358
CONTRACT NO. 62N32			ITSN-1	
ILLINOIS		FED. AID PROJECT		

USER NAME = shassan	DESIGNED - BL	REVISED -
	DRAWN - SR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - MH	REVISED -
PLOT DATE = 2/23/2024	DATE - 9/14/2022	REVISED -





MATCHLINE STA. 128+00.00

**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. CONTRACTOR SHALL AVOID TREES, EXISTING LIGHTING UNITS AND CORNER POLES NEAR THE RIGHT OF WAY.
3. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.

MODEL: 4140BELMAME  
FILE NAME: D:\ENR22-261\ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - MD	REVISED -
PLOT DATE = 2/23/2024	CHECKED - MH	REVISED -
	DATE - 9/15/22	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

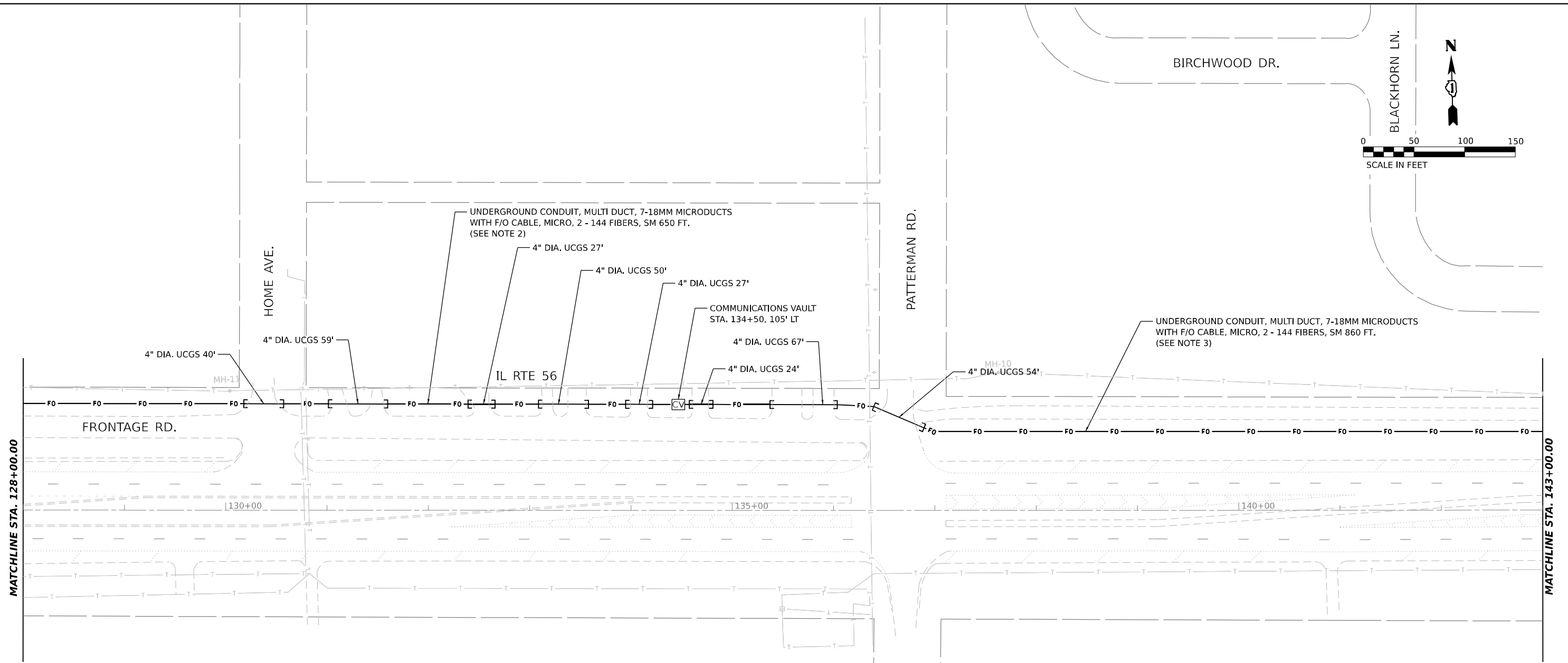
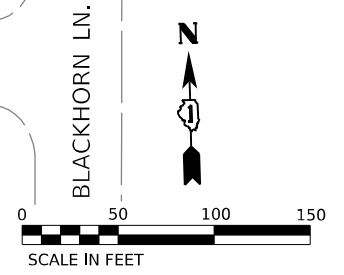
**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'      SHEET 1 OF 52 SHEETS      STA. 113+00 TO STA. 128+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	359
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

ITS-01

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. CONTRACTOR SHALL CONFIRM RIGHT OF WAY AND USE CARE ADJACENT TO HOMEOWNERS PROPERTY.
3. UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE INSTALLED ON SOUTH SIDE OF SIDEWALK DUE TO CONFLICTS.
4. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 4140BELMAME  
 FILE NAME: D:\ENR22-261\ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
	DRAWN - MD	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - MH	REVISED -
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -

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

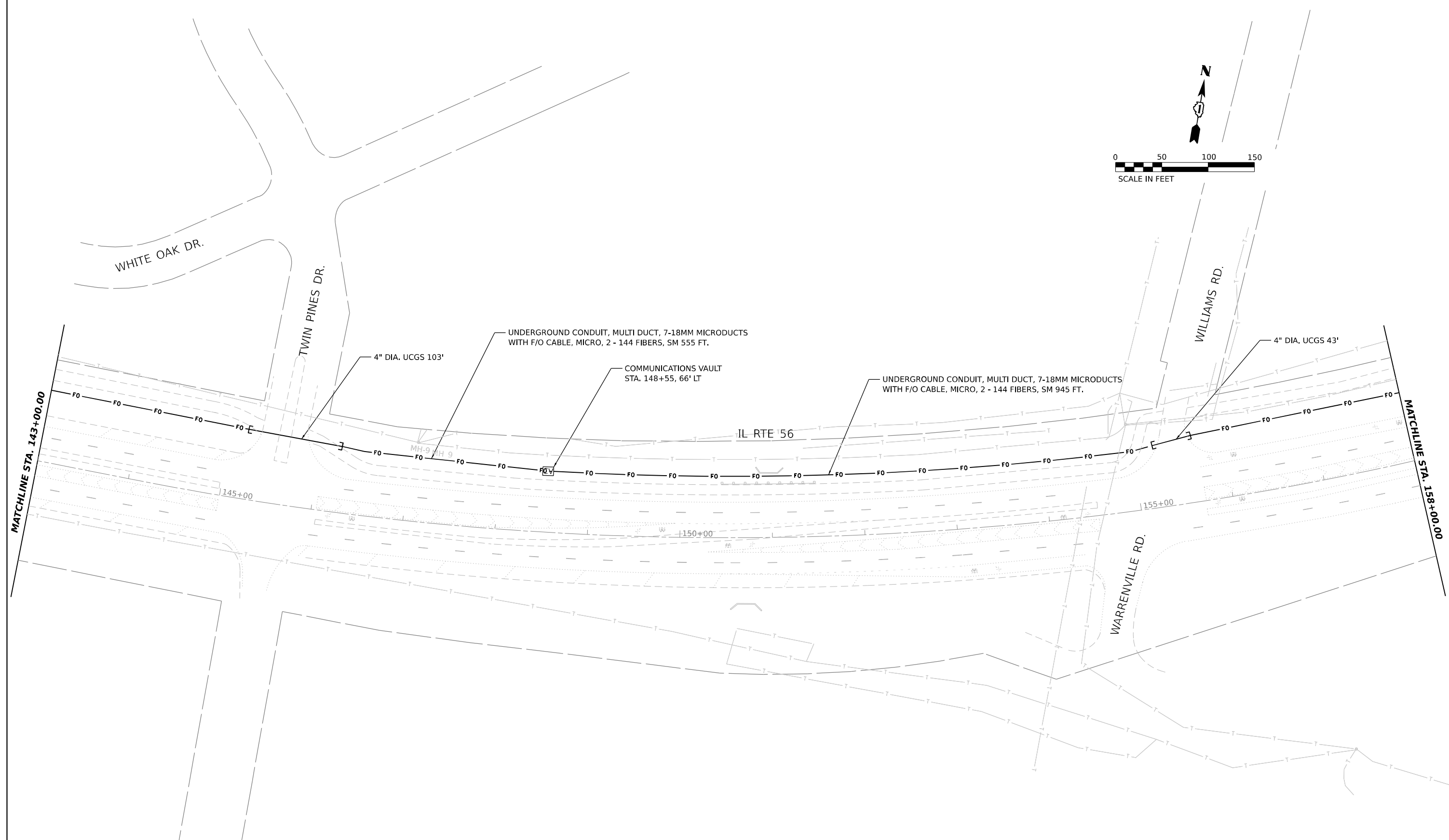
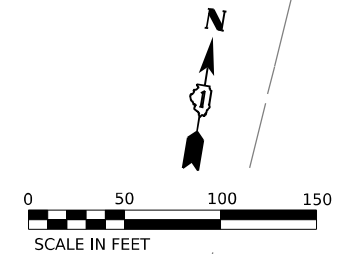
**PROPOSED FIBER ROUTE PLANS**  
**IL ROUTE 56**

SCALE: 1"=50'    SHEET 2    OF 52    SHEETS    STA. 128+00    TO STA. 143+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	360
CONTRACT NO. 62N32				

Long Section Number

ITS-02



- NOTE:**
1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
  2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 41408161.MXD  
 FILE NAME: D:\ENR22-265-ITS.dwg

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

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

DESIGNED	- BL
DRAWN	- MD
CHECKED	- MH
DATE	- 9/15/22

REVISED	-
REVISED	-
REVISED	-
REVISED	-

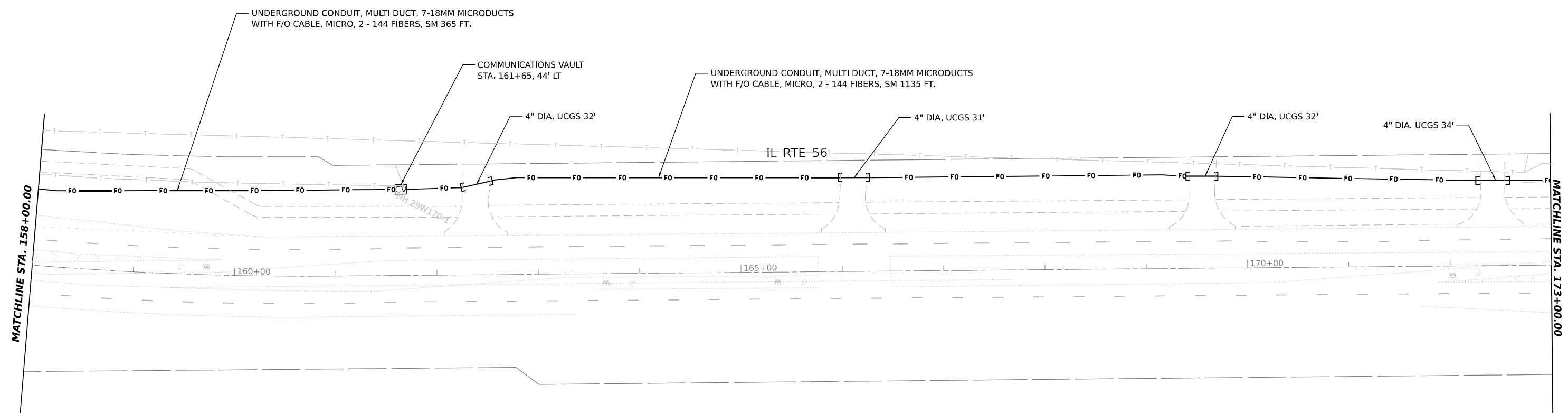
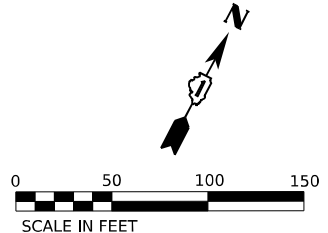
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PROPOSED FIBER ROUTE PLANS**  
**IL ROUTE 56**  
 SCALE: 1"=50'    SHEET 3 OF 52 SHEETS    STA. 143+00 TO STA. 158+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	361
CONTRACT NO. 62N32				

ITS-03

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 4100BELMAME  
FILE NAME: D:\2023\265-SUR\ITS.dgn

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

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

DESIGNED	- BL
DRAWN	- MD
CHECKED	- MH
DATE	- 9/15/22

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

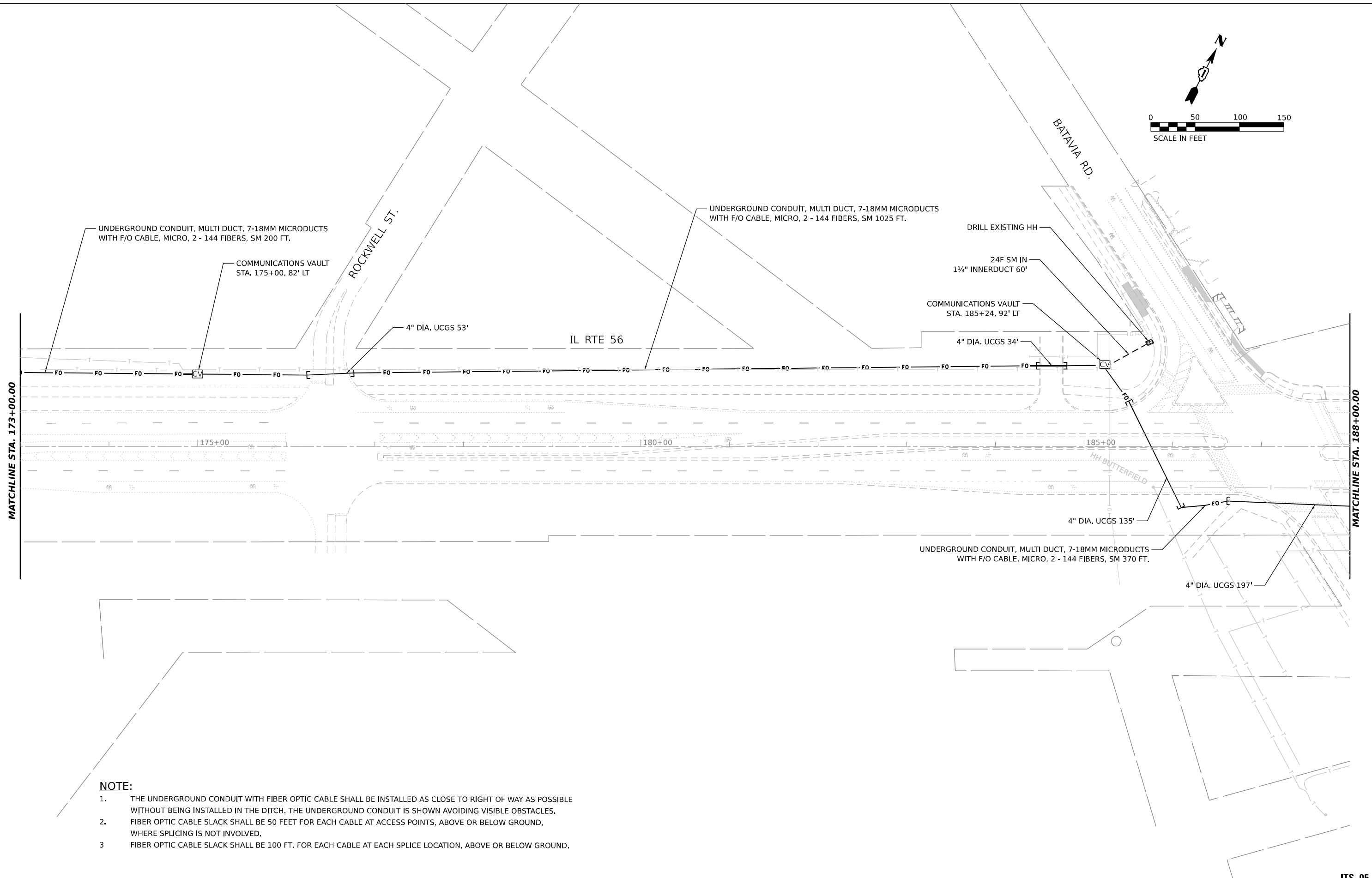
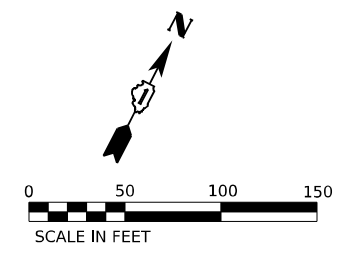
**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'    SHEET 4 OF 52 SHEETS    STA. 158+00 TO STA. 173+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	362
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

ITS-04

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.
3. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.

MODEL: 4140BELMAME  
FILE NAME: D:\ENR22-265-ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
DRAWN - MD	REVISIONS -	
PLOT SCALE = \$SCALE\$	CHECKED - MH	REVISED -
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

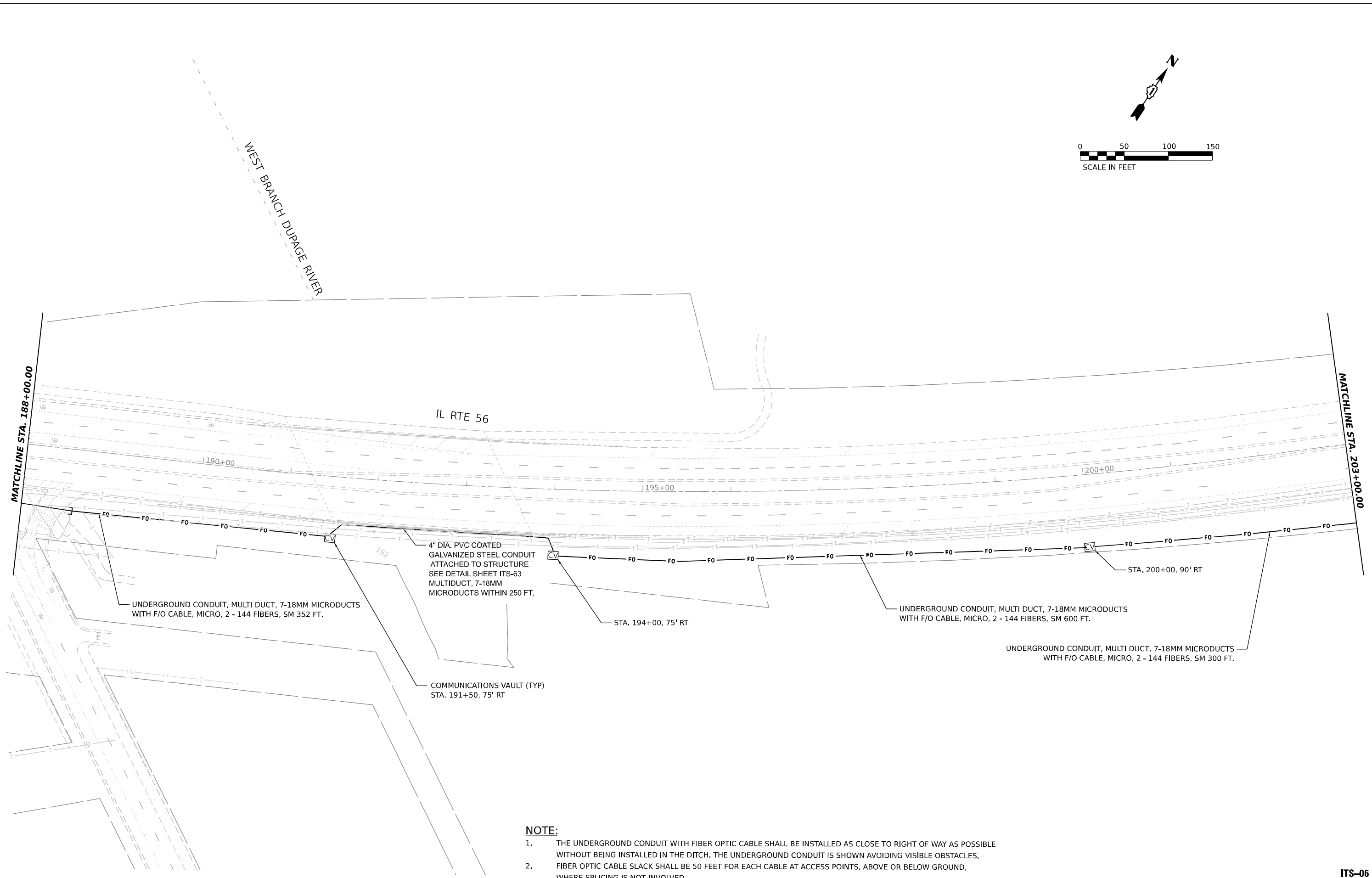
**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'    SHEET 5    OF 52 SHEETS    STA. 173+00    TO STA. 188+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	383
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

ITS-05

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 4140BELMAME  
 FILE NAME: D:\ENR22-201\ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - MD	REVISED -
PLOT DATE = 2/23/2024	CHECKED - MH	REVISED -
	DATE - 9/15/22	REVISED -

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

**PROPOSED FIBER ROUTE PLANS**  
**IL ROUTE 56**

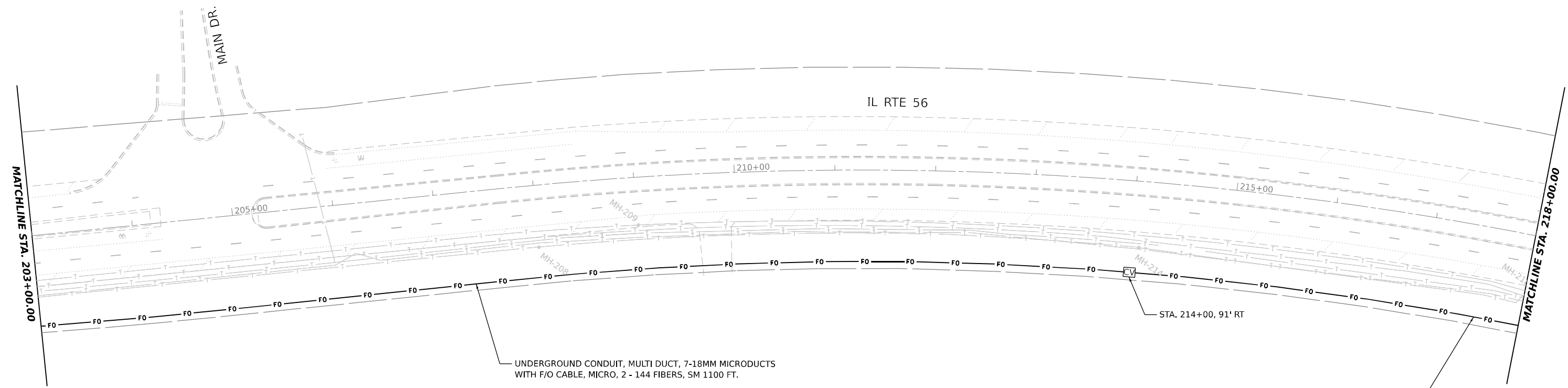
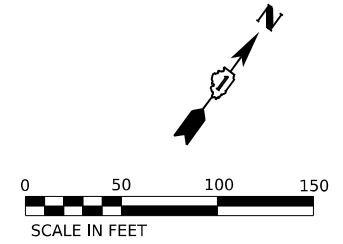
SCALE: 1"=50'    SHEET 6 OF 52 SHEETS    STA. 188+00 TO STA. 203+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	364
CONTRACT NO. 62N32				
ILLINOIS		FED. AID PROJECT		

ITS-06

Long Section Number





UNDERGROUND CONDUIT, MULTI DUCT, 7-18MM MICRODUCTS WITH F/O CABLE, MICRO, 2 - 144 FIBERS, SM 1100 FT.

UNDERGROUND CONDUIT, MULTI DUCT, 7-18MM MICRODUCTS WITH F/O CABLE, MICRO, 2 - 144 FIBERS, SM 400 FT.

**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 4100BELMAME  
FILE NAME: D:\ENR22-28\ITS.dgn

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

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

DESIGNED	- BL
DRAWN	- MD
CHECKED	- MH
DATE	- 9/15/22

REVISED	-
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REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

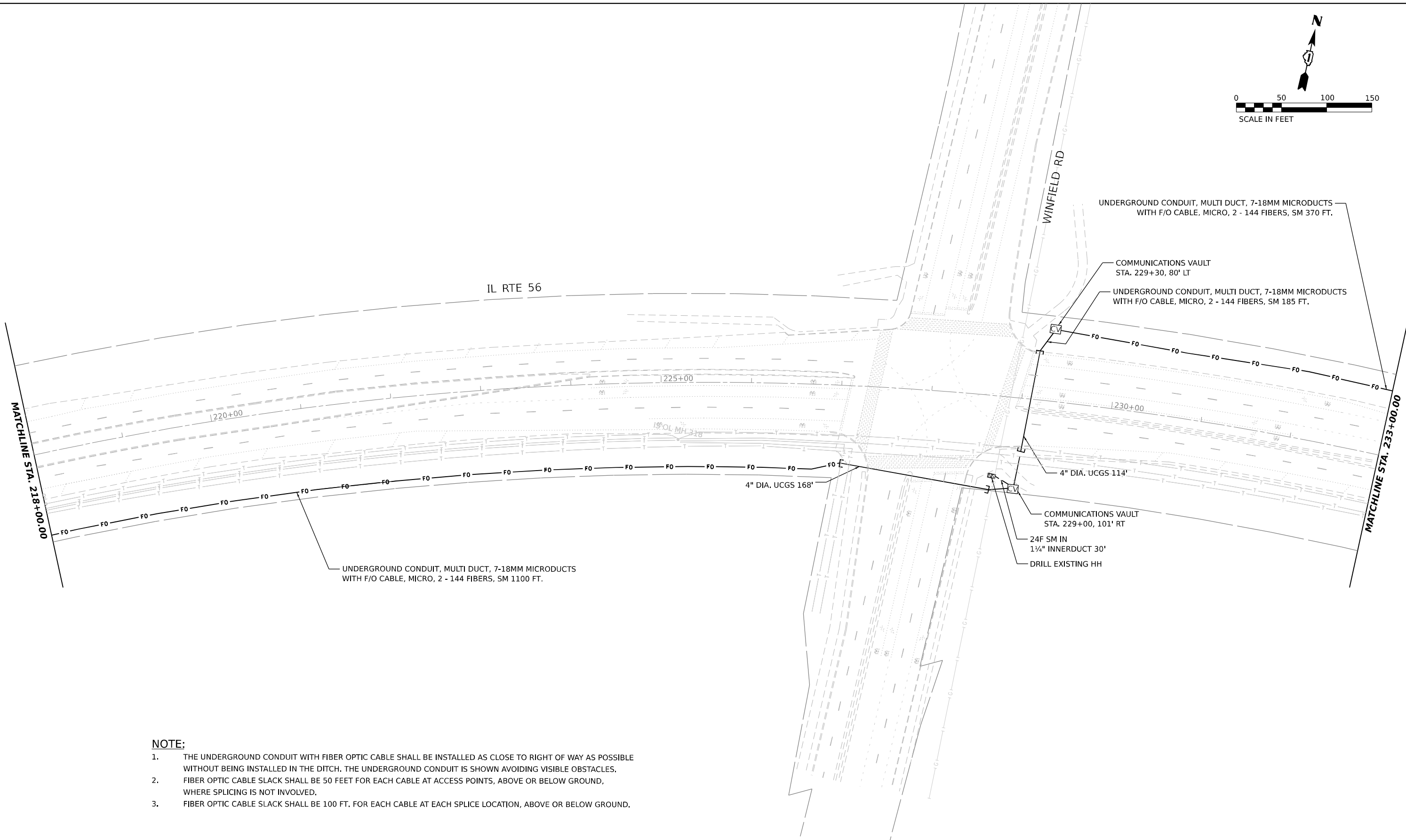
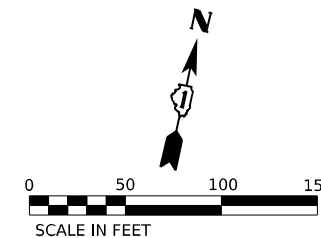
**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'      SHEET 7 OF 52 SHEETS      STA. 203+00 TO STA. 218+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	365
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

ITS-07

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.
3. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.

MODEL: 41408BELMAME  
FILE NAME: D:\ENR22-28\ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
DRAWN - MD	REVISIONS -	
PLOT SCALE = \$SCALE\$	CHECKED - MH	REVISED -
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

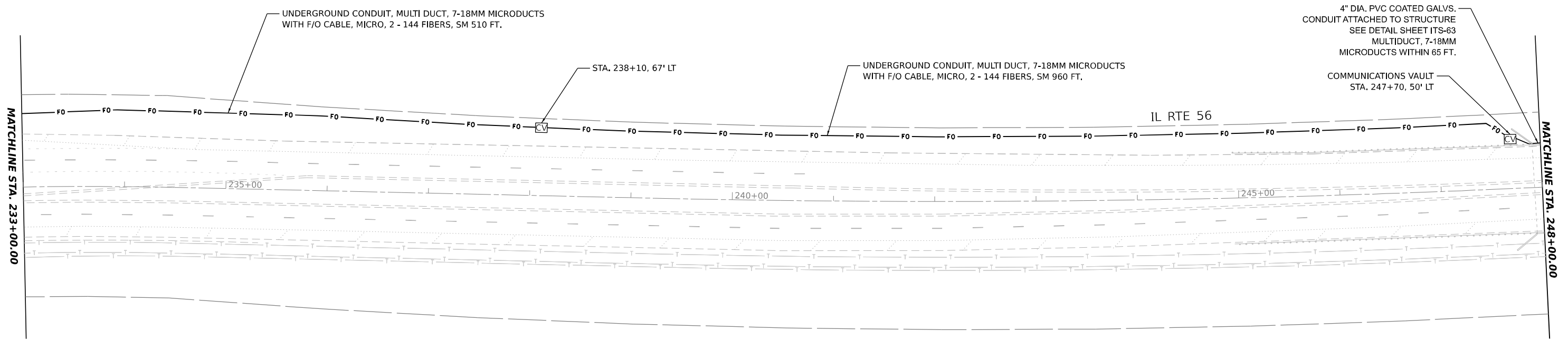
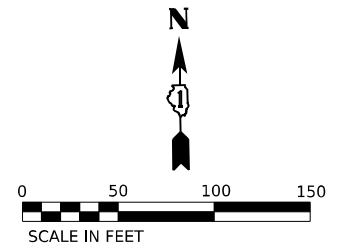
**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50' SHEET 8 OF 52 SHEETS STA. 128+00 TO STA. 143+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	366
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

Long Section Number

ITS-08



- NOTE:**
1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH, THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
  2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 4140BELMAME  
FILE NAME: D:\ENR22-265-ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
DRAWN - MD	CHECKED - MH	REVISED -
PLOT SCALE = \$SCALE\$	DATE - 9/15/22	REVISED -
PLOT DATE = 2/23/2024		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

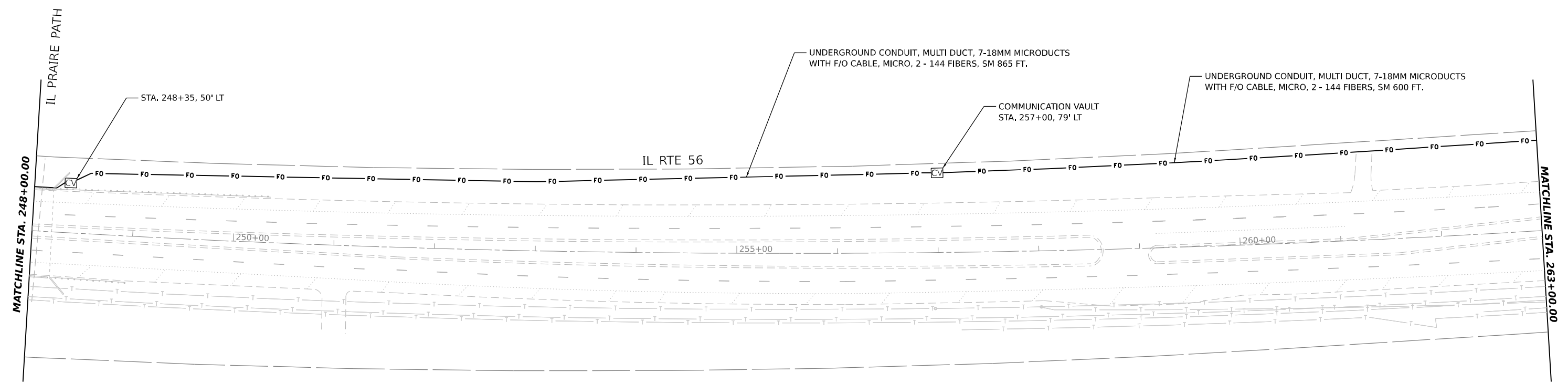
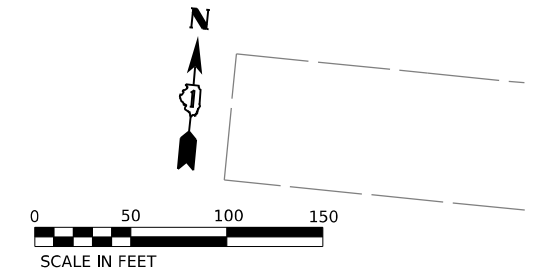
**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'    SHEET 9 OF 52 SHEETS    STA. 233+00 TO STA. 248+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	367
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

ITS-09

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 4140BELMAME  
FILE NAME: D:\ENR22-263-ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
	DRAWN - MD	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - MH	REVISED -
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

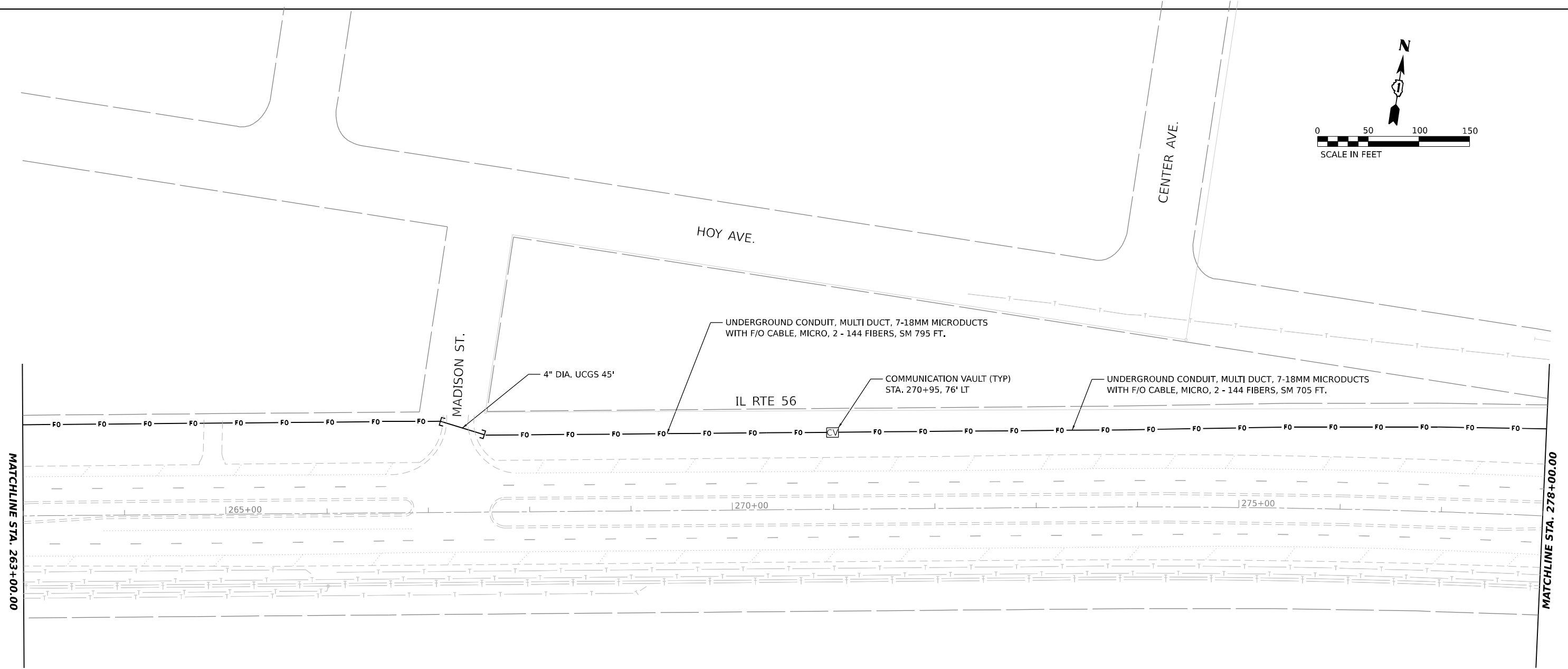
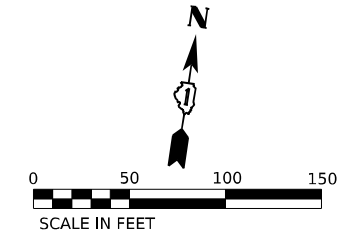
**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'    SHEET 10 OF 52 SHEETS    STA. 248+00 TO STA. 263+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	388
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

**ITS-10**

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 4140BELMAME  
FILE NAME: D:\62N32-263-11TS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
	DRAWN - MD	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - MH	REVISED -
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

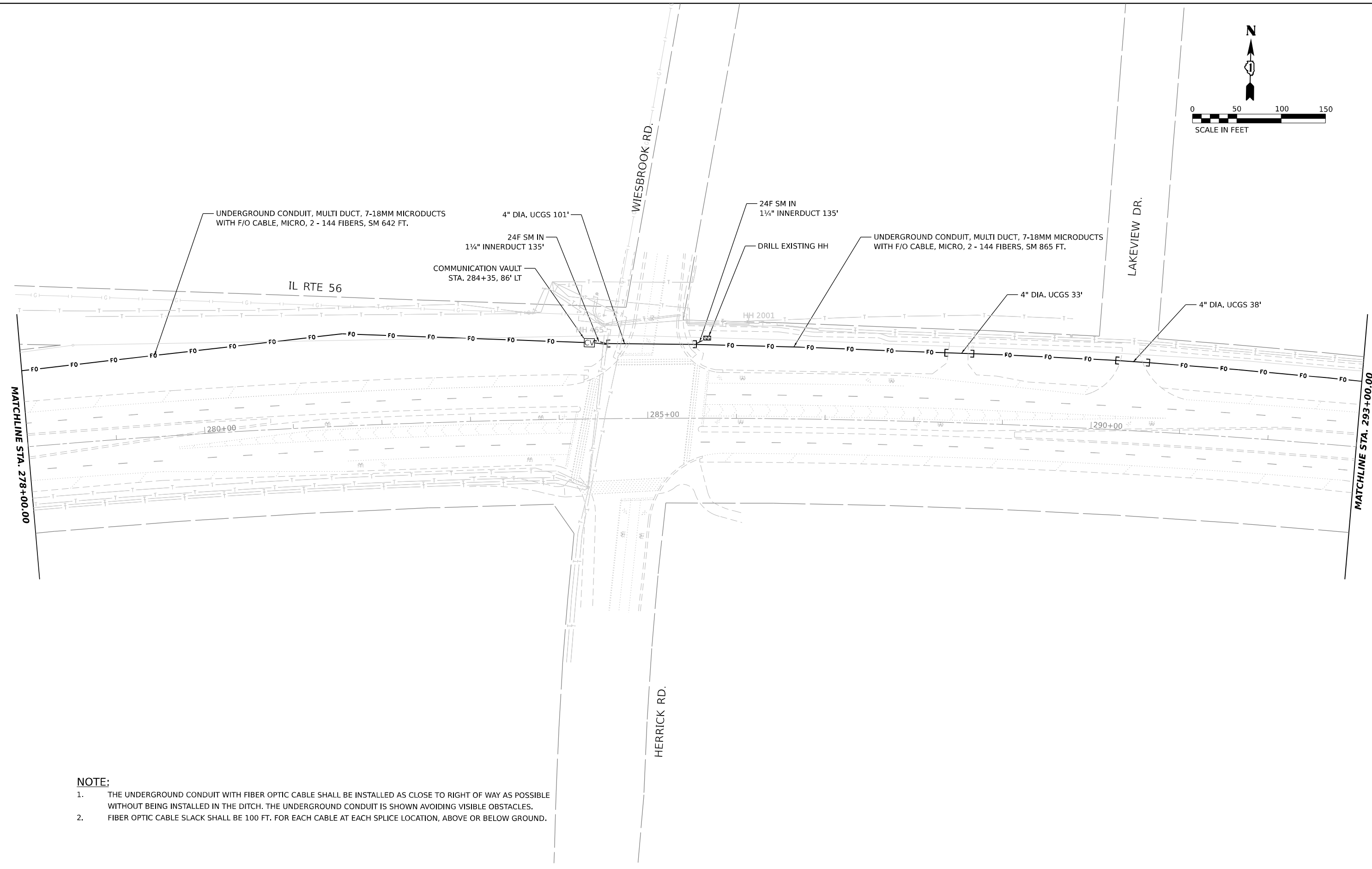
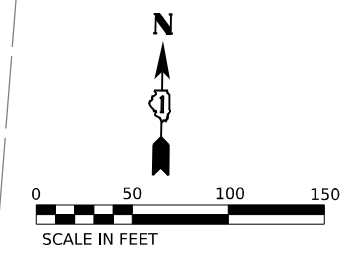
**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'    SHEET 11 OF 52 SHEETS    STA. 263+00 TO STA. 278+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	369
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

ITS-11

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.

MODEL: 4140BELMAME  
FILE NAME: D:\ENR22-265-ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - MD	REVISED -
PLOT DATE = 2/23/2024	CHECKED - MH	REVISED -
	DATE - 9/15/22	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

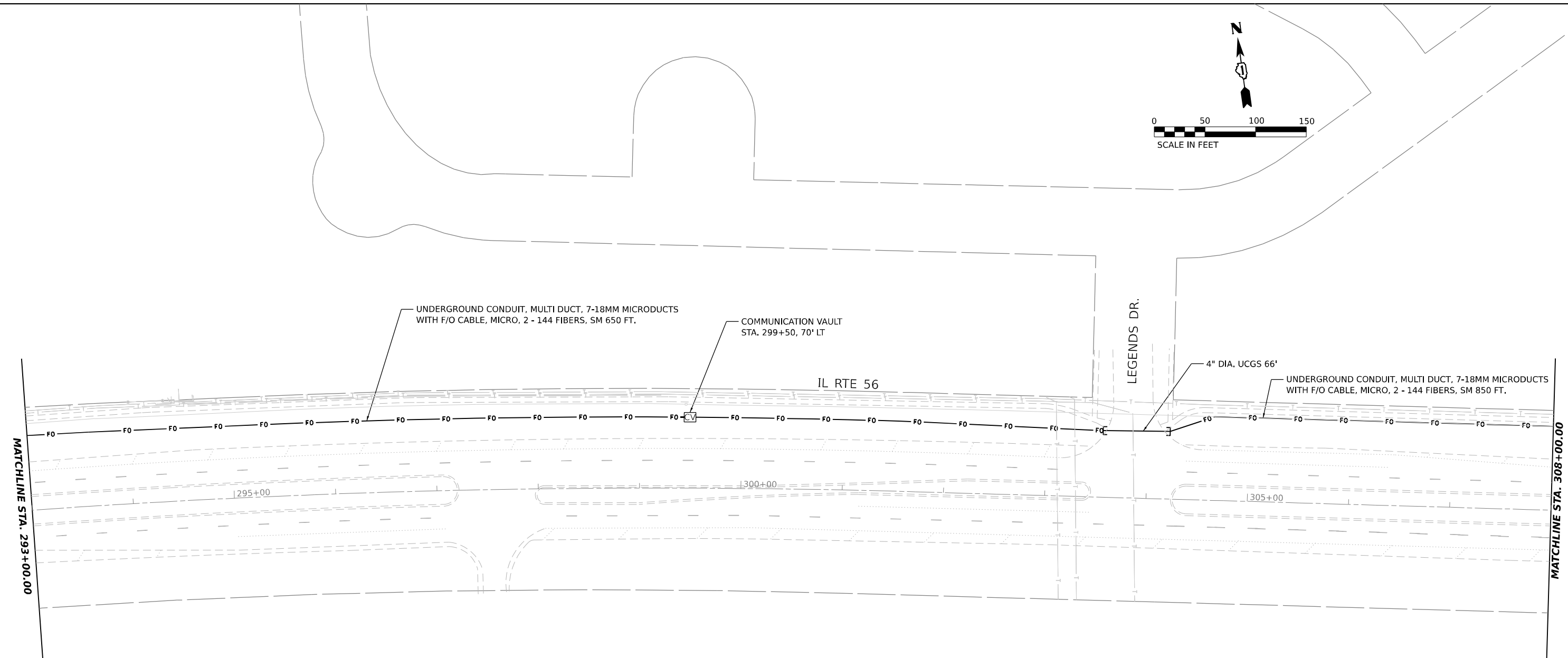
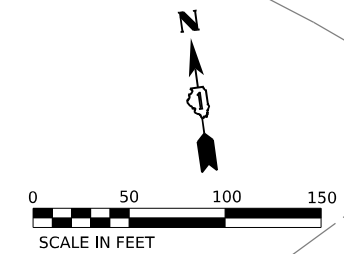
SCALE: 1"=50'    SHEET 12 OF 52 SHEETS    STA. 278+00 TO STA. 293+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	370
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

ITS-12

Long Section Number





**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 4140BELMAME  
FILE NAME: D:\ENR22-265-TS.dgn

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

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

DESIGNED	- BL
DRAWN	- MD
CHECKED	- MH
DATE	- 9/15/22

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

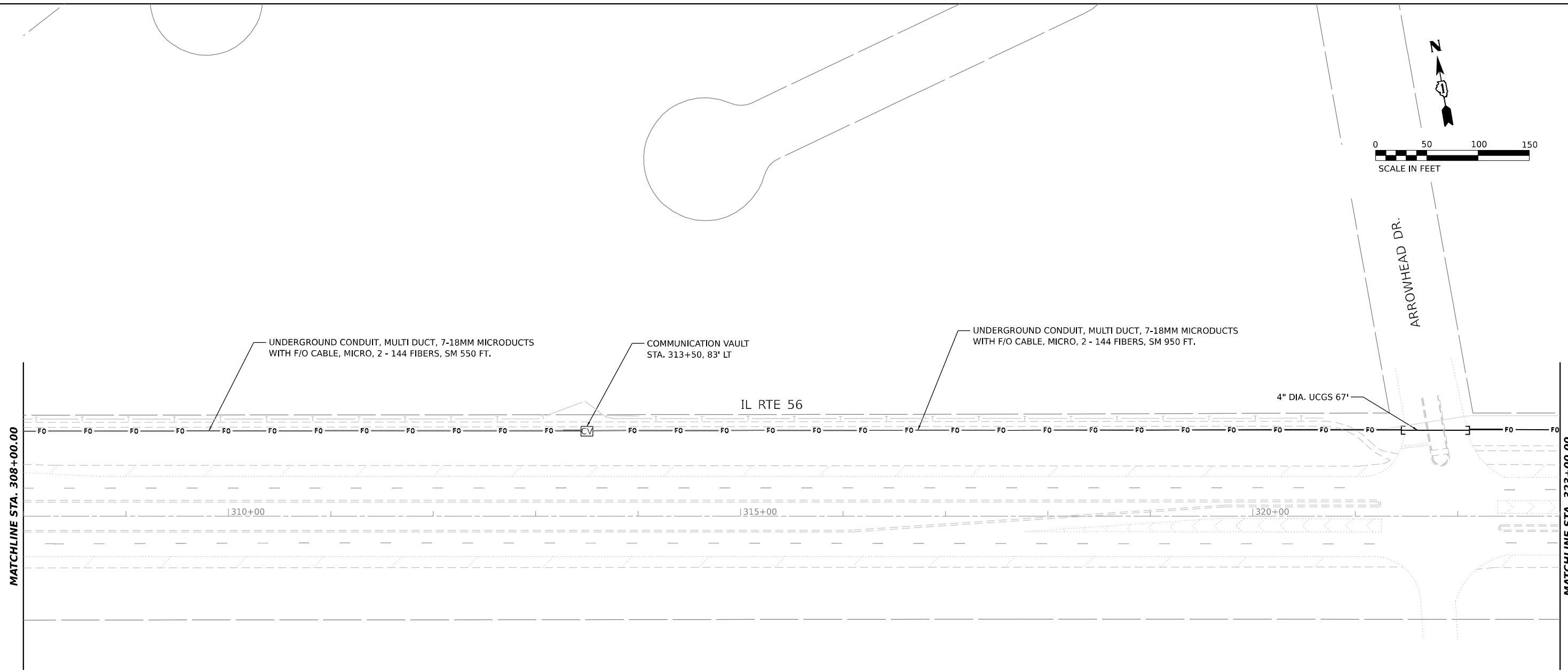
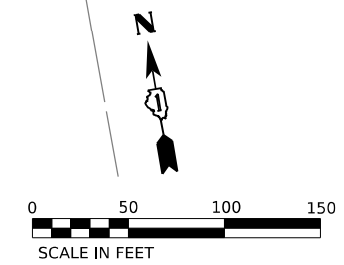
**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'      SHEET 13 OF 52 SHEETS      STA. 293+00 TO STA. 308+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	371
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

**ITS-13**

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH, THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 4100BELMAME  
FILE NAME: D:\ENR22-265-ITS.dgn

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

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

DESIGNED	- BL
DRAWN	- MD
CHECKED	- MH
DATE	- 9/15/22

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

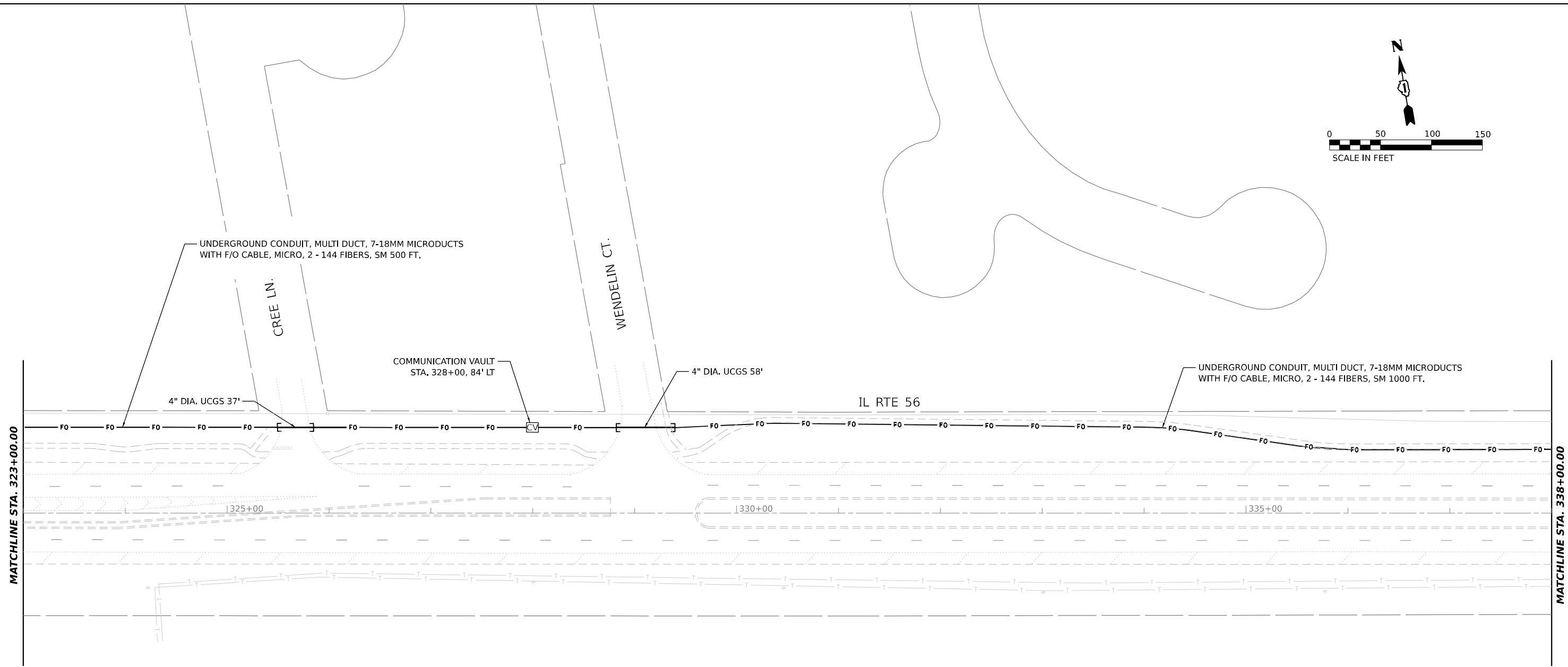
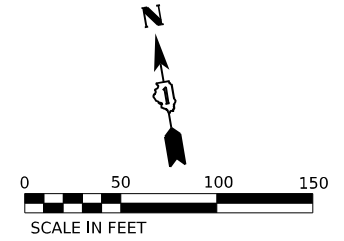
**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'      SHEET 14 OF 52 SHEETS      STA. 308+00 TO STA. 323+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	372
CONTRACT NO. 62N32				

ITS-14

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 4140BELMAME  
FILE NAME: D:\ENR22-265-ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - MD	REVISED -
PLOT DATE = 2/23/2024	CHECKED - MH	REVISED -
	DATE - 9/15/22	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

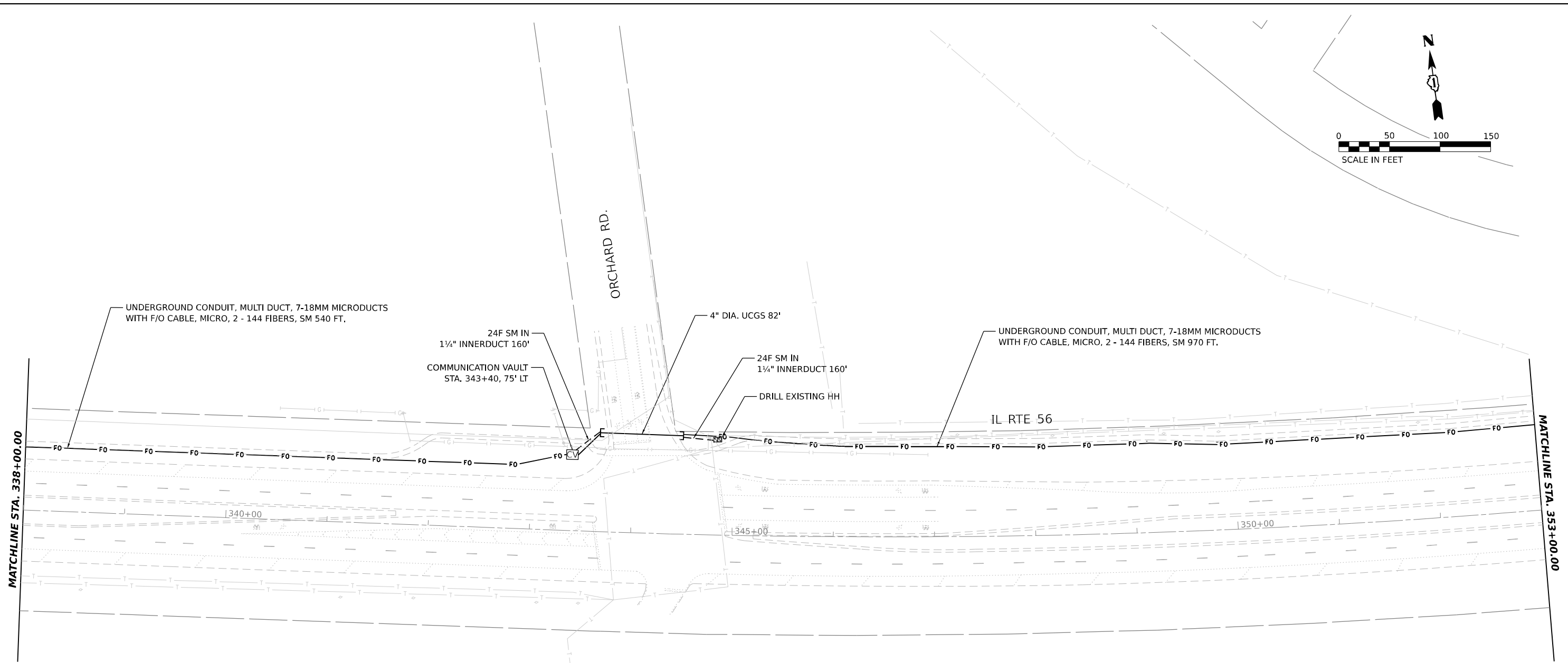
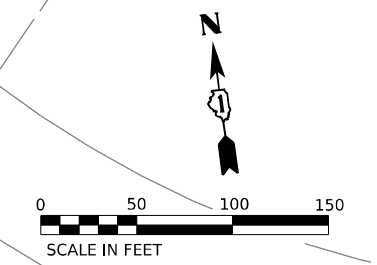
**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'      SHEET 15 OF 52 SHEETS      STA. 323+00 TO STA. 338+000

F.A.P. RTE. 365	SECTION 2020-265-SUR, SW & TS	COUNTY DUPAGE/COOK	TOTAL SHEETS 462	SHEET NO. 373
CONTRACT NO. 62N32			ILLINOIS FED. AID PROJECT	

ITS-15

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.

MODEL: 4100BELMAME  
 FILE NAME: D:\ENR22-265-ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - MD	REVISED -
PLOT DATE = 2/23/2024	CHECKED - MH	REVISED -
	DATE - ## 02/23/22	REVISED -

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

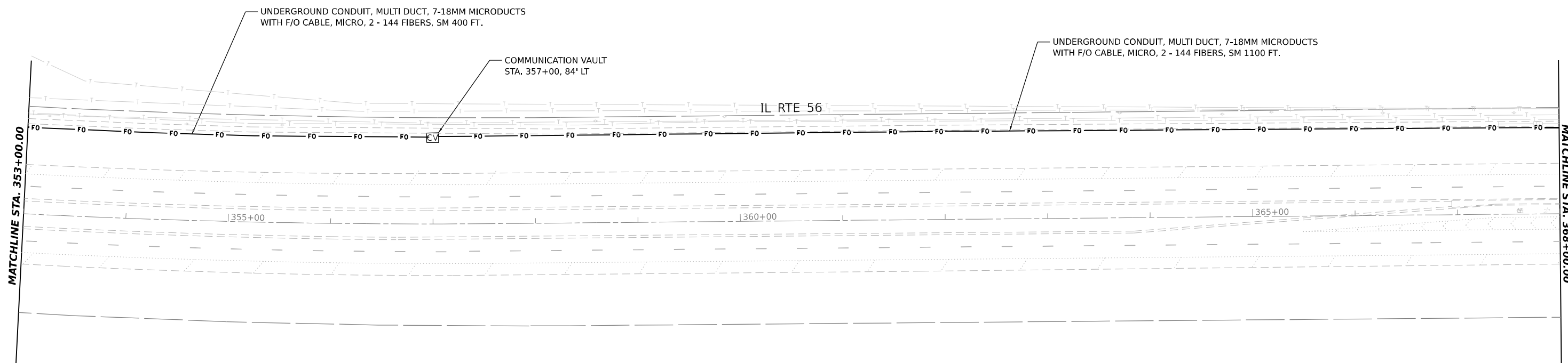
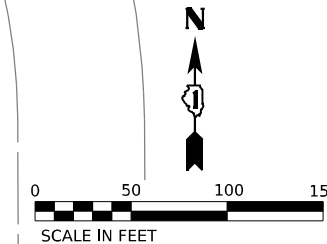
**PROPOSED FIBER ROUTE PLANS**  
**IL ROUTE 56**

SCALE: 1"=50'    SHEET 16 OF 52 SHEETS    STA. 338+00 TO STA. 353+000

F.A.P. RTE. 365	SECTION 2020-265-SUR, SW & TS	COUNTY DUPAGE/COOK	TOTAL SHEETS 462	SHEET NO. 374
CONTRACT NO. 62N32			ILLINOIS FED. AID PROJECT	

ITS-16

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 4100BELMAME  
 FILE NAME: D:\ENR22-265-ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
	DRAWN - MD	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - MH	REVISED -
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -

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

**PROPOSED FIBER ROUTE PLANS**  
**IL ROUTE 56**

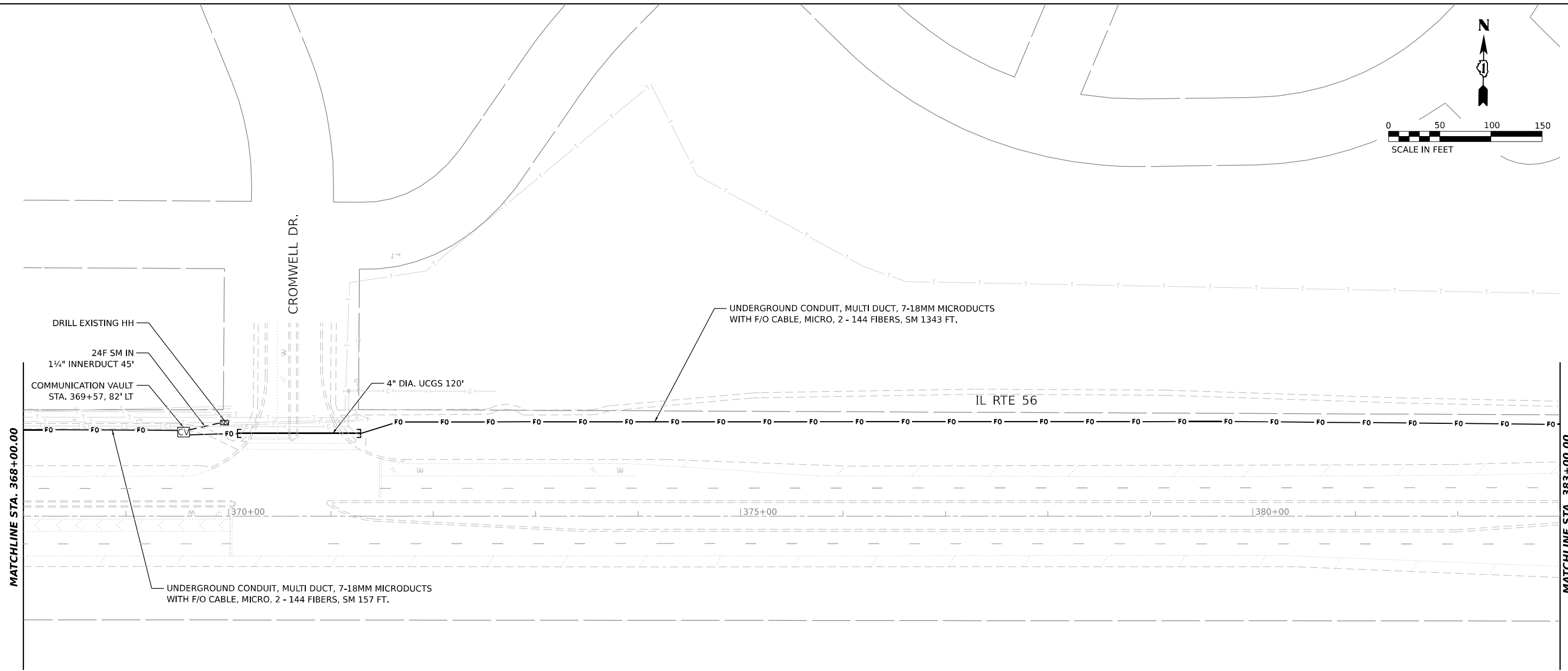
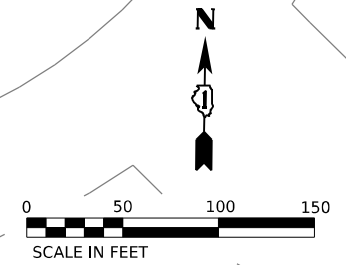
SCALE: 1"=50'    SHEET 17 OF 52 SHEETS    STA. 353+00    TO STA. 368+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	375
CONTRACT NO. 62N32				

Long Section Number

ITS-17





**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.

MODEL: 4100BELMAME  
FILE NAME: D:\ENR22-265-ITS.dgn

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

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

DESIGNED - BL  
DRAWN - MD  
CHECKED - MH  
DATE - 9/15/22

REVISED -  
REVISED -  
REVISED -  
REVISED -

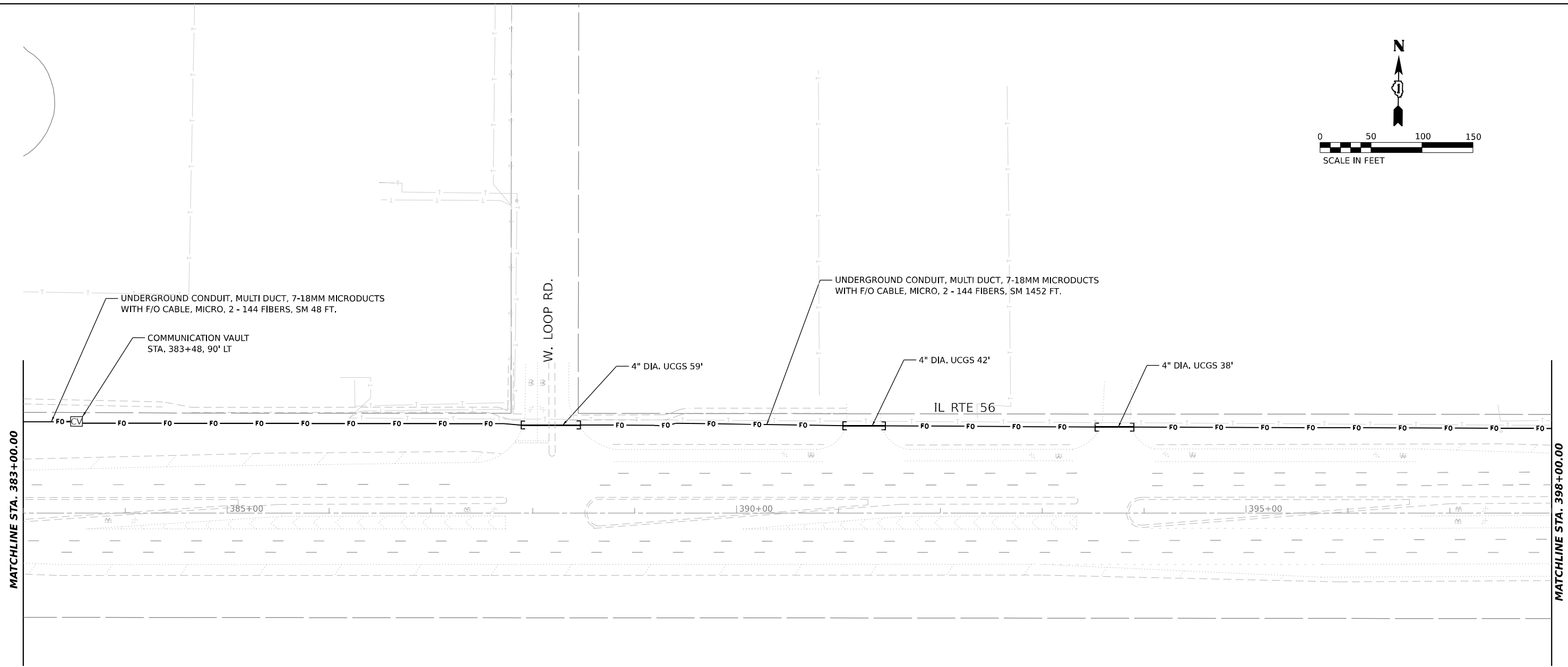
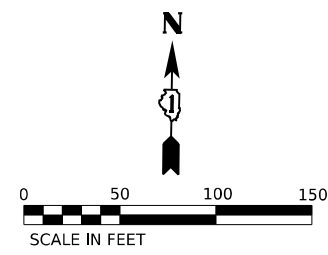
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'    SHEET 18 OF 52 SHEETS    STA. 368+00 TO STA. 383+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	376
CONTRACT NO. 62N32				
ILLINOIS			FED. AID PROJECT	

Long Section Number



- NOTE:**
1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
  2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 4100BELMAME  
 FILE NAME: D:\ENR22-265-ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
	DRAWN - MD	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - MH	REVISED -
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -

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

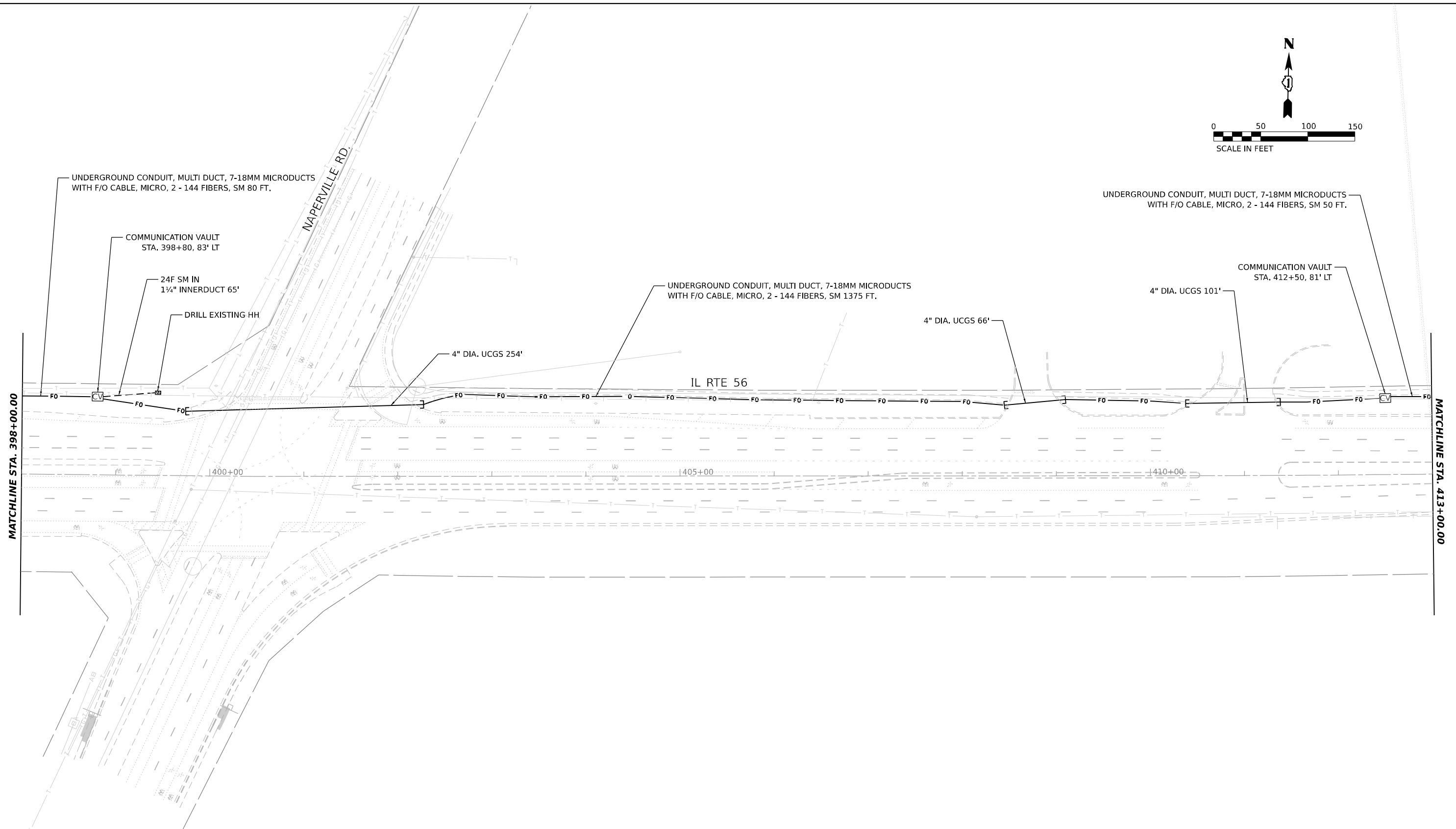
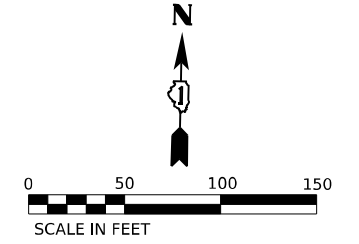
**PROPOSED FIBER ROUTE PLANS**  
**IL ROUTE 56**

SCALE: 1"=50'    SHEET 19 OF 52 SHEETS    STA. 383+00 TO STA. 398+000

F.A.P. RTE. 365	SECTION 2020-265-SUR, SW & TS	COUNTY DUPAGE/COOK	TOTAL SHEETS 462	SHEET NO. 377
CONTRACT NO. 62N32			ILLINOIS FED. AID PROJECT	

ITS-19

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.
3. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 4140BELMAMES  
 FILE NAME: D:\ENR22-265-ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
DRAWN - MD	CHECKED - MH	REVISED -
PLOT SCALE = \$SCALE\$	DATE - 9/15/22	REVISED -
PLOT DATE = 2/23/2024		

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

**PROPOSED FIBER ROUTE PLANS**  
**IL ROUTE 56**

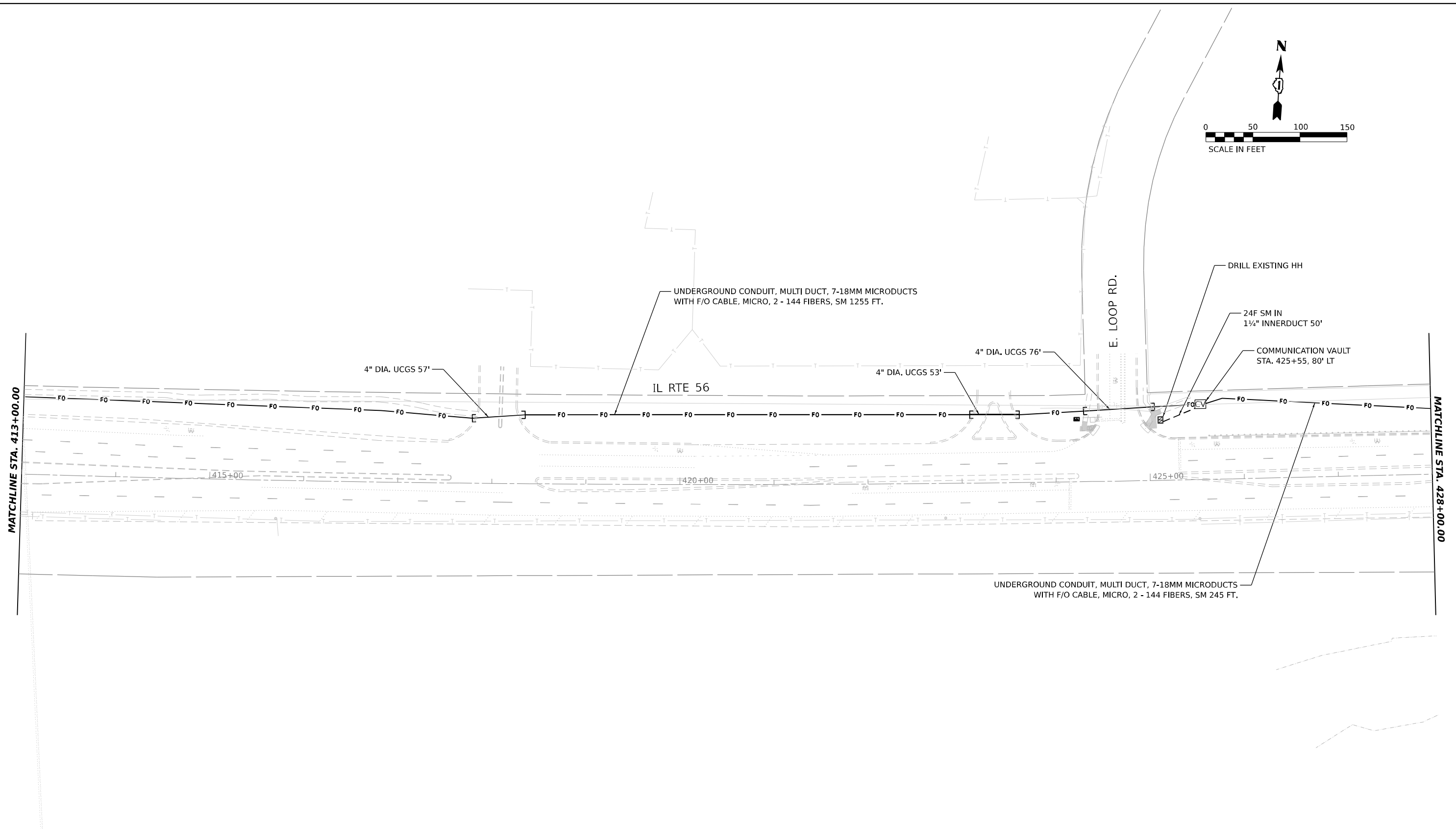
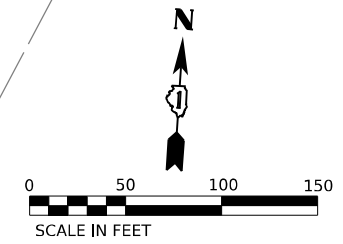
SCALE: 1"=50'    SHEET 19 OF 52 SHEETS    STA. 398+00 TO STA. 413+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	378
CONTRACT NO. 62N32				

ILLINOIS FED. AID PROJECT

ITS-20

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.

MODEL: 4140BELMAME  
FILE NAME: D:\62N32-21\ITS.dgn

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

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

DESIGNED - BL	REVISD -
DRAWN - MD	REVISD -
CHECKED - MH	REVISD -
DATE - 9/15/22	REVISD -

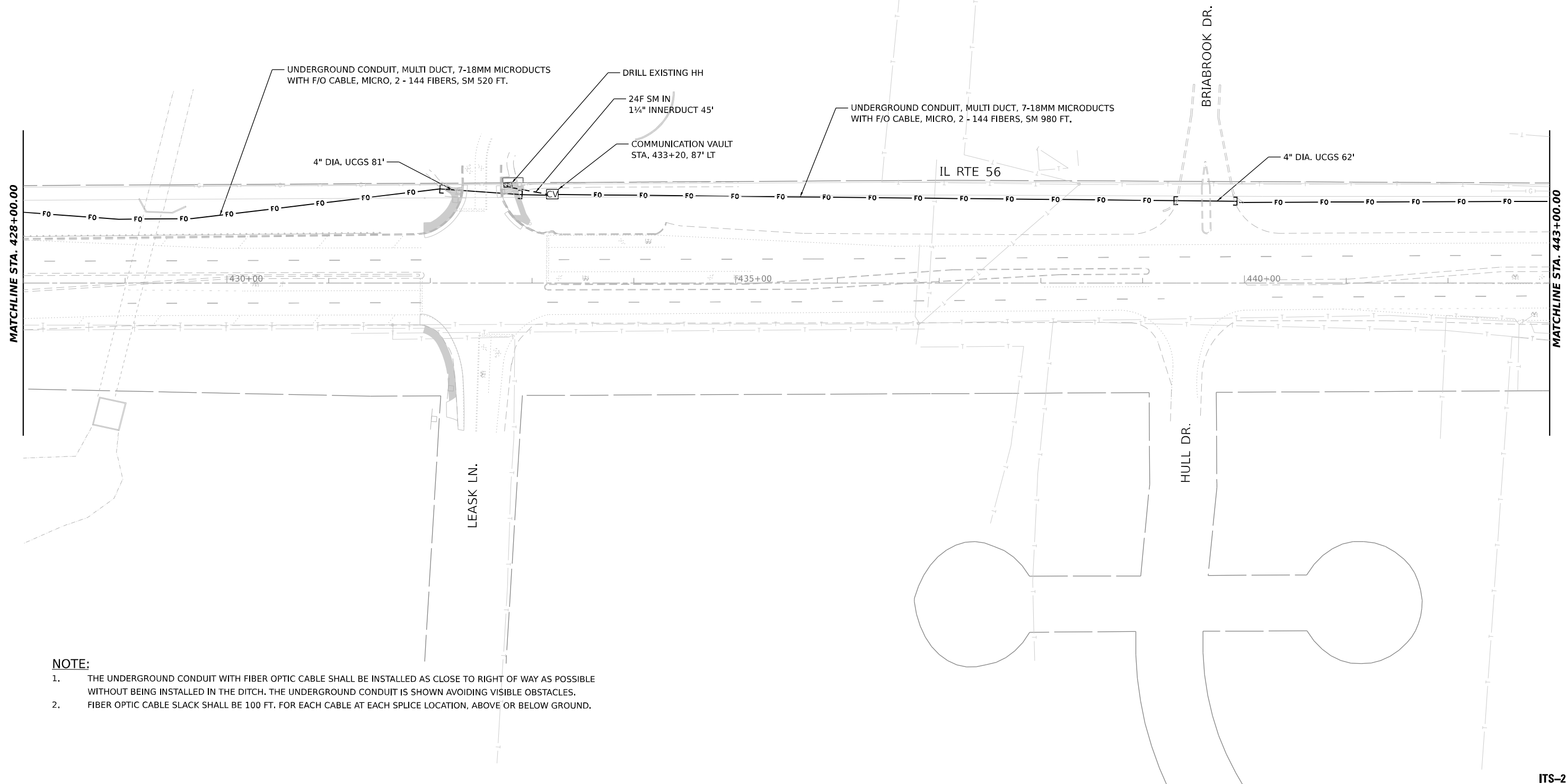
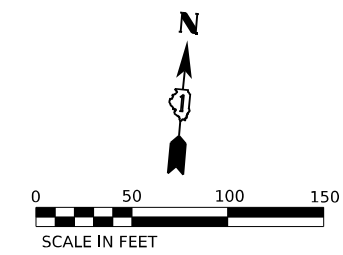
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'      SHEET 21 OF 52 SHEETS      STA. 413+00 TO STA. 428+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	379
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.

MODEL: 4140BELMAME  
FILE NAME: D:\ENR22-265-ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - MD	REVISED -
PLOT DATE = 2/23/2024	CHECKED - MH	REVISED -
	DATE - 9/15/22	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

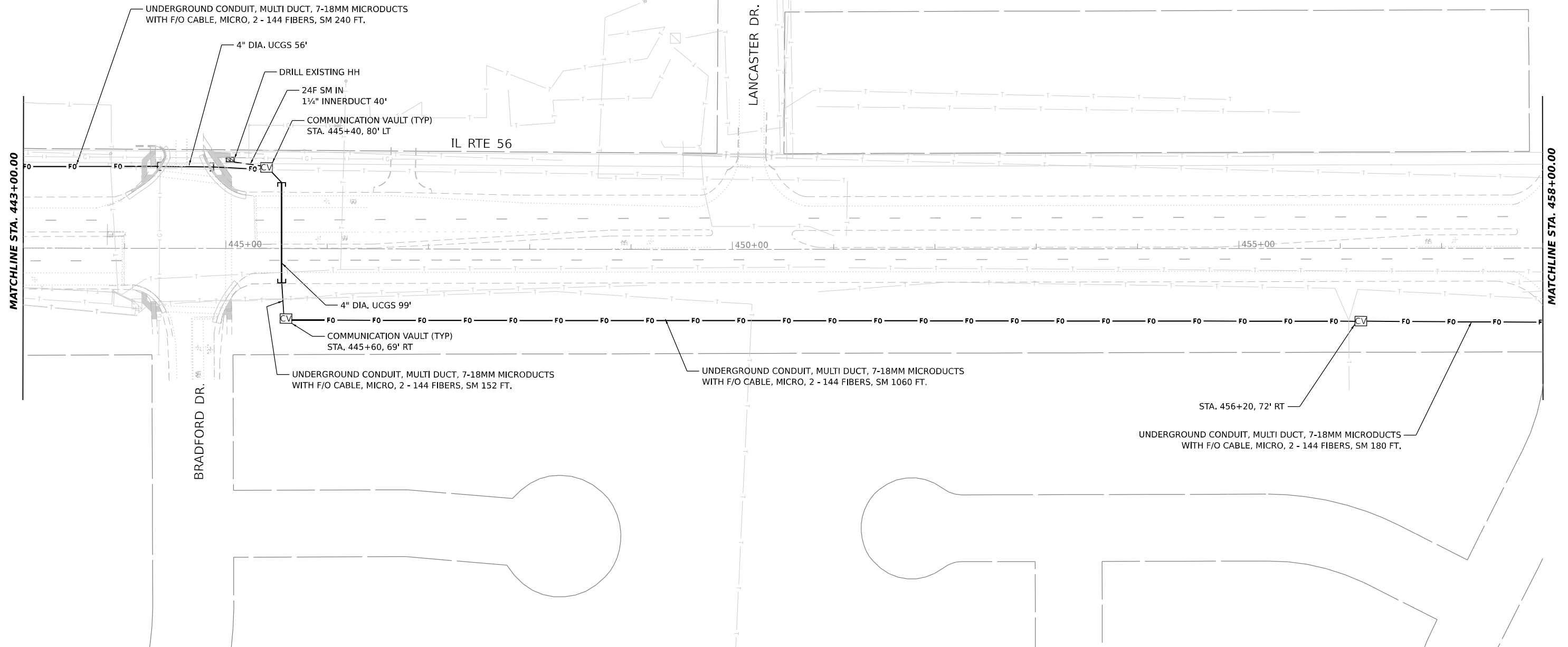
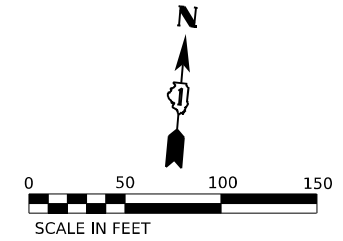
**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'      SHEET 22 OF 52 SHEETS      STA. 428+00 TO STA. 443+000

F.A.P. RTE. 365	SECTION 2020-265-SUR, SW & TS	COUNTY DUPAGE/COOK	TOTAL SHEETS 462	SHEET NO. 380
CONTRACT NO. 62N32			ILLINOIS FED. AID PROJECT	

ITS-22

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.
3. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: \\MODEL\AMES  
 FILE NAME: D:\ENR22-265-ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
	DRAWN - MD	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - MH	REVISED -
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED FIBER ROUTE PLANS  
 IL ROUTE 56**

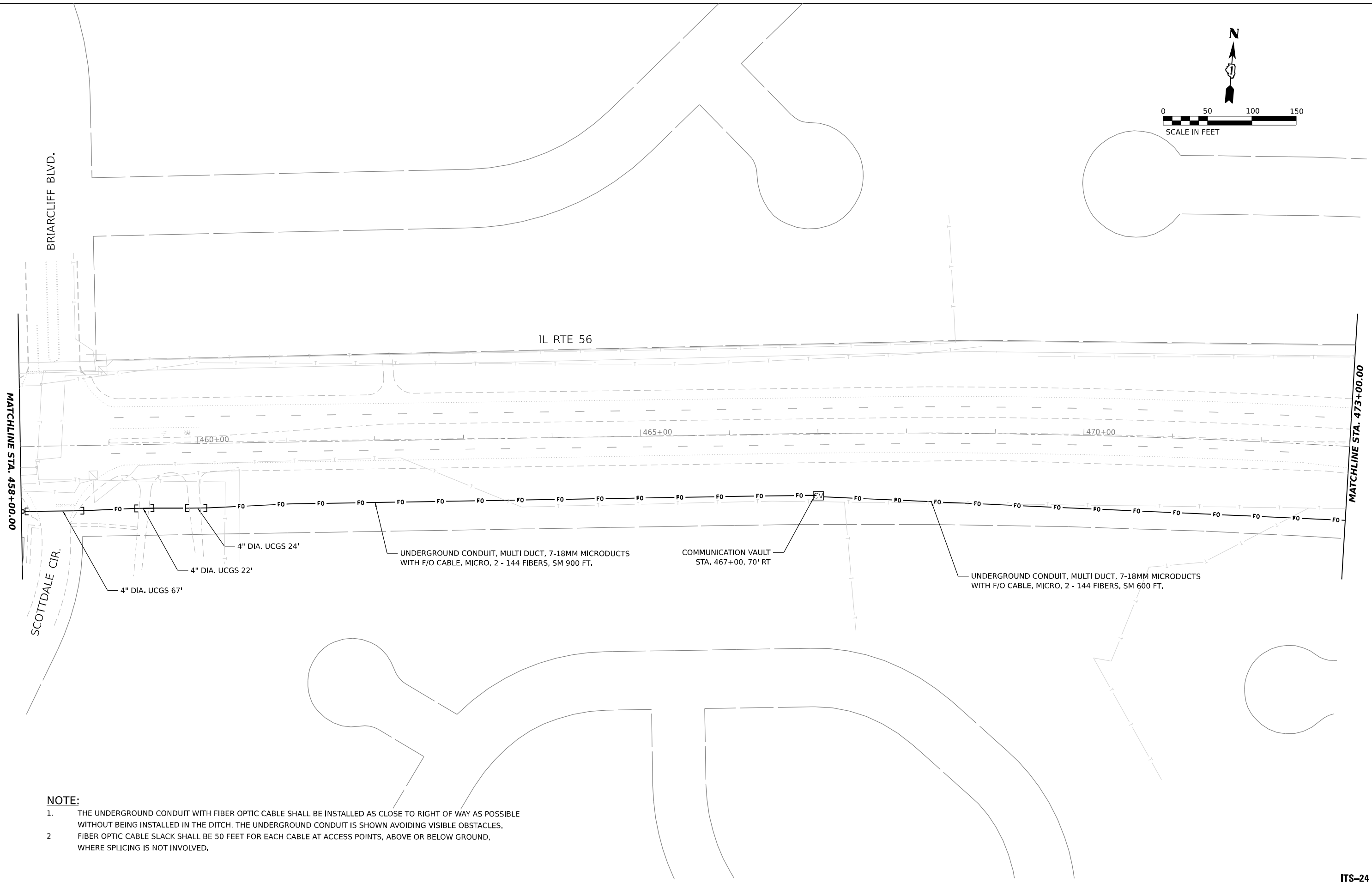
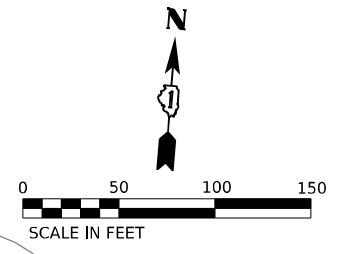
SCALE: 1"=50'      SHEET 23 OF 52 SHEETS      STA. 443+00 TO STA. 458+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	381
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

Long Section Number

ITS-23





**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 414081614444  
FILE NAME: D:\ENR22-265-ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - MD	REVISED -
PLOT DATE = 2/23/2024	CHECKED - MH	REVISED -
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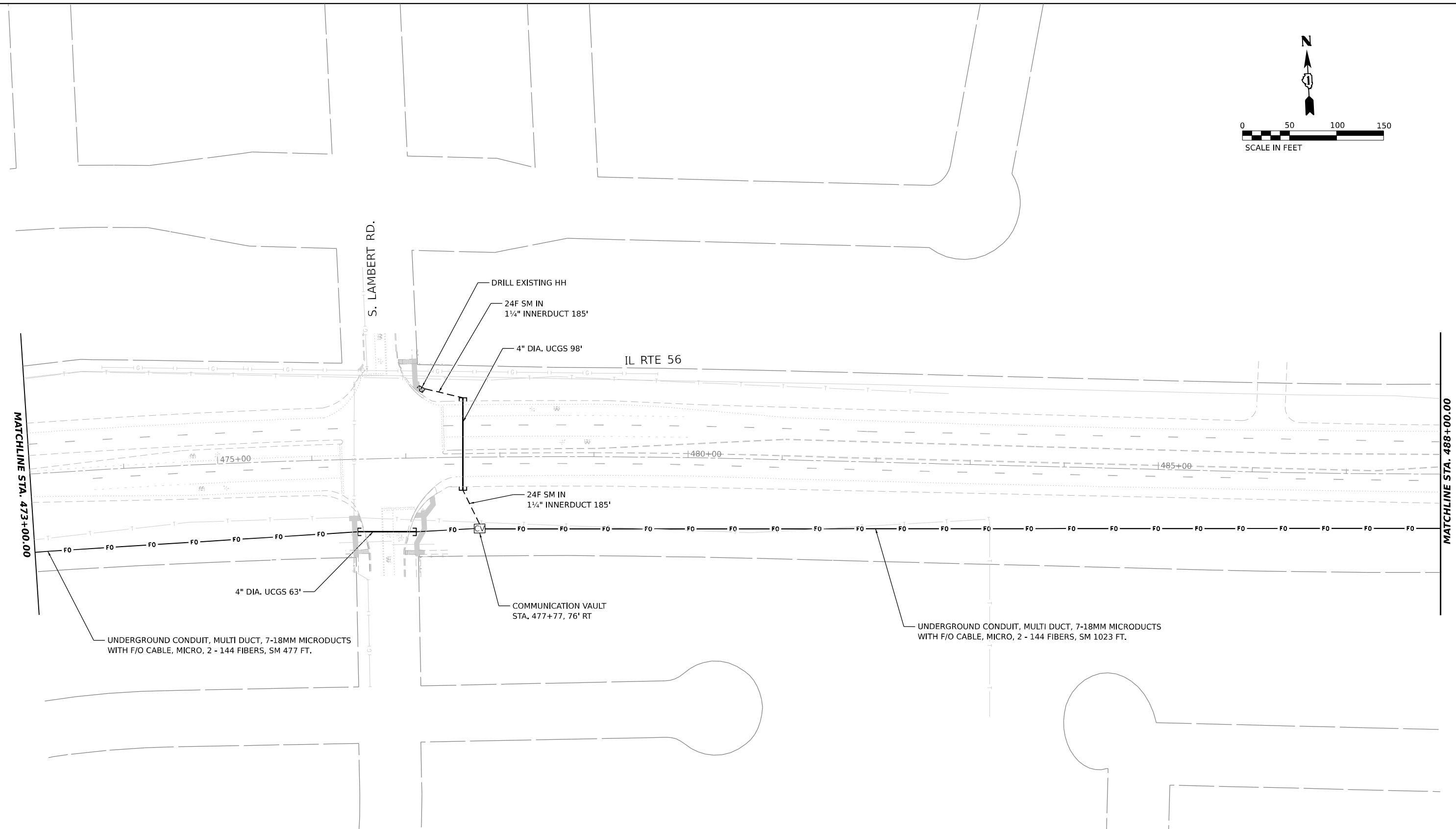
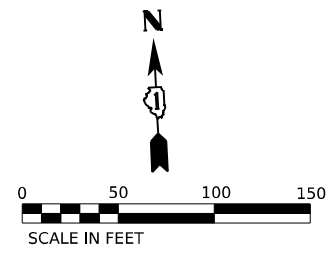
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'      SHEET 24 OF 52 SHEETS      STA. 458+00 TO STA. 473+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	382
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.

MODEL: 4140BELMAME  
FILE NAME: D:\ENR22-265-ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - MD	REVISED -
PLOT DATE = 2/23/2024	CHECKED - MH	REVISED -
	DATE - 9/15/22	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

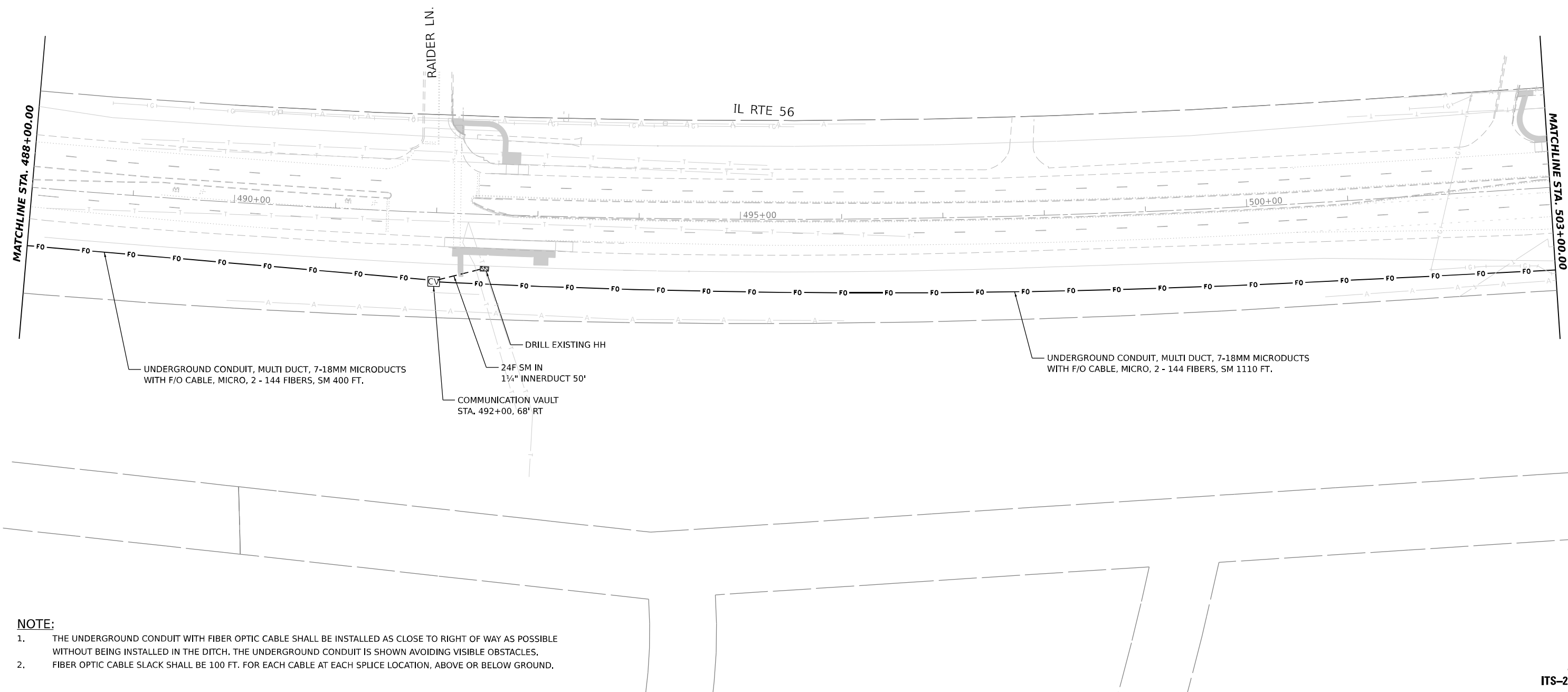
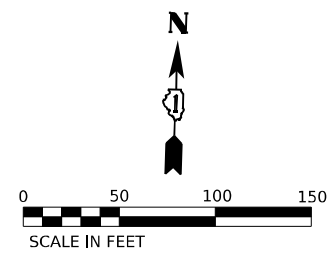
**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'      SHEET 25 OF 52 SHEETS      STA. 473+00 TO STA. 488+000

F.A.P. RTE. 365	SECTION 2020-265-SUR, SW & TS	COUNTY DUPAGE/COOK	TOTAL SHEETS 462	SHEET NO. 383
CONTRACT NO. 62N32			ILLINOIS FED. AID PROJECT	

ITS-25

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.

MODEL: 4140BELNAMES  
 FILE NAME: D:\ENR22-26\ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - MD	REVISED -
PLOT DATE = 2/23/2024	CHECKED - MH	REVISED -
	DATE - 9/15/22	REVISED -

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

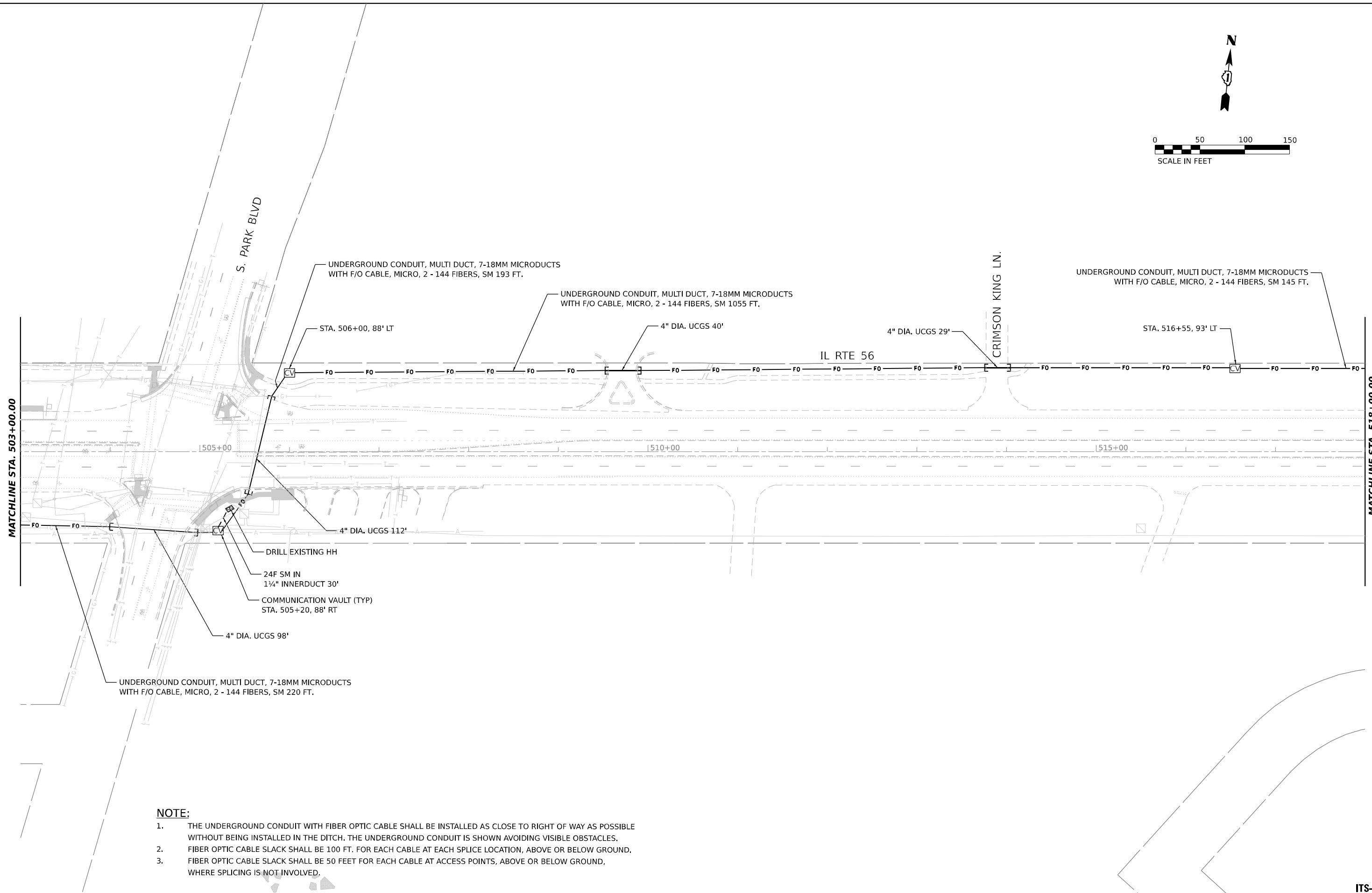
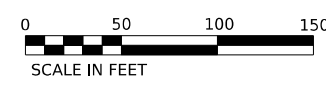
**PROPOSED FIBER ROUTE PLANS**  
**IL ROUTE 56**

SCALE: 1"=50'    SHEET 26 OF 52 SHEETS    STA. 488+00 TO STA. 503+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	384
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

ITS-26

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.
3. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 41408161.MXD  
FILE NAME: D:\ENR22-265-ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - MD	REVISED -
PLOT DATE = 2/23/2024	CHECKED - MH	REVISED -
	DATE - 9/15/22	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

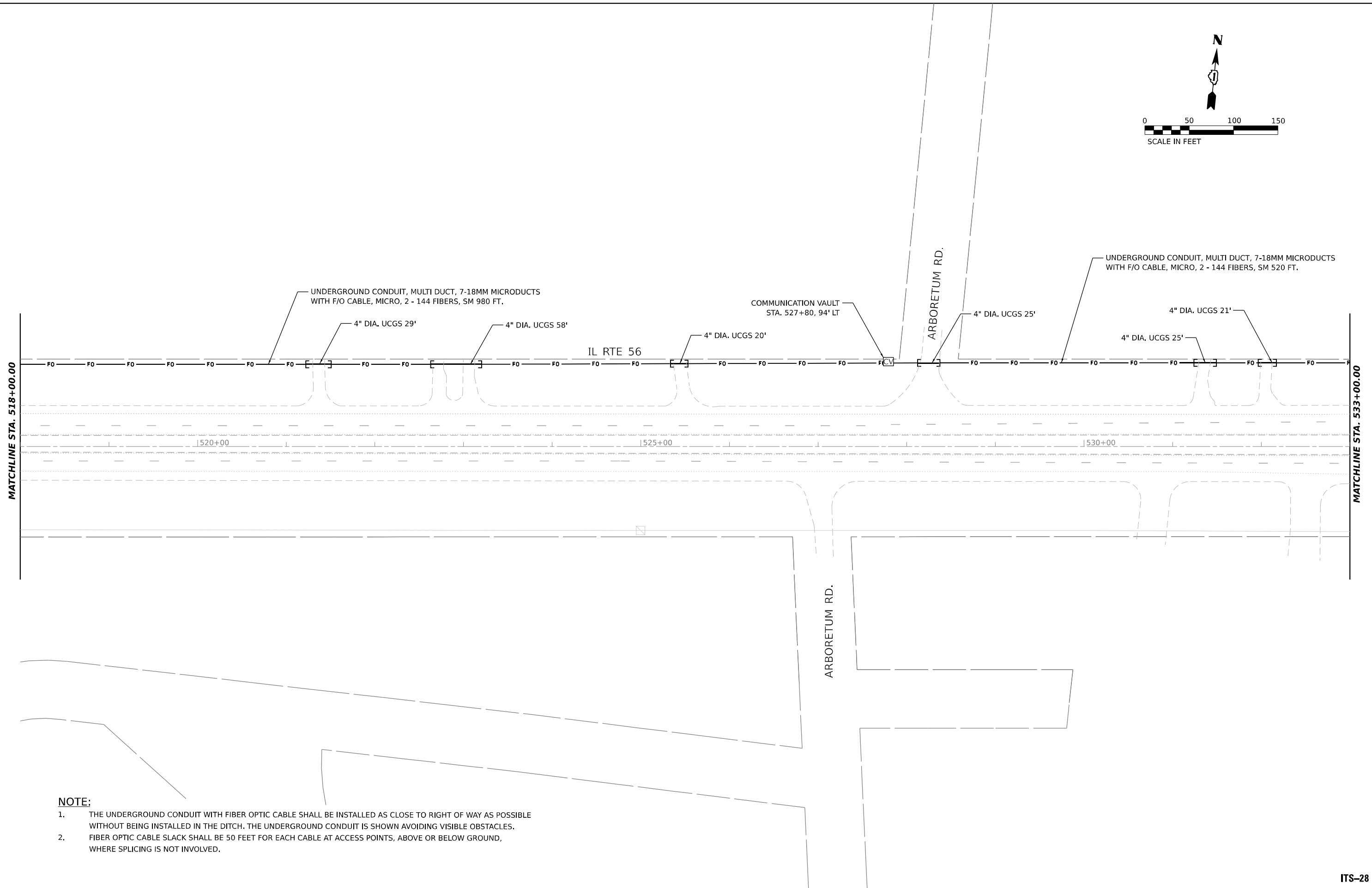
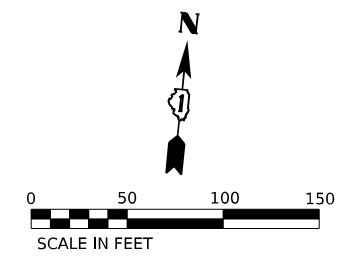
**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'    SHEET 27 OF 52 SHEETS    STA. 503+00    TO STA. 518+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	385
CONTRACT NO. 62N32				

Long Section Number

ITS-27



- NOTE:**
1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
  2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 414081614444  
FILE NAME: D:\ENR22-261\ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
DRAWN - MD	REVISOR -	
PLOT SCALE = \$SCALE\$	CHECKED - MH	REVISED -
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

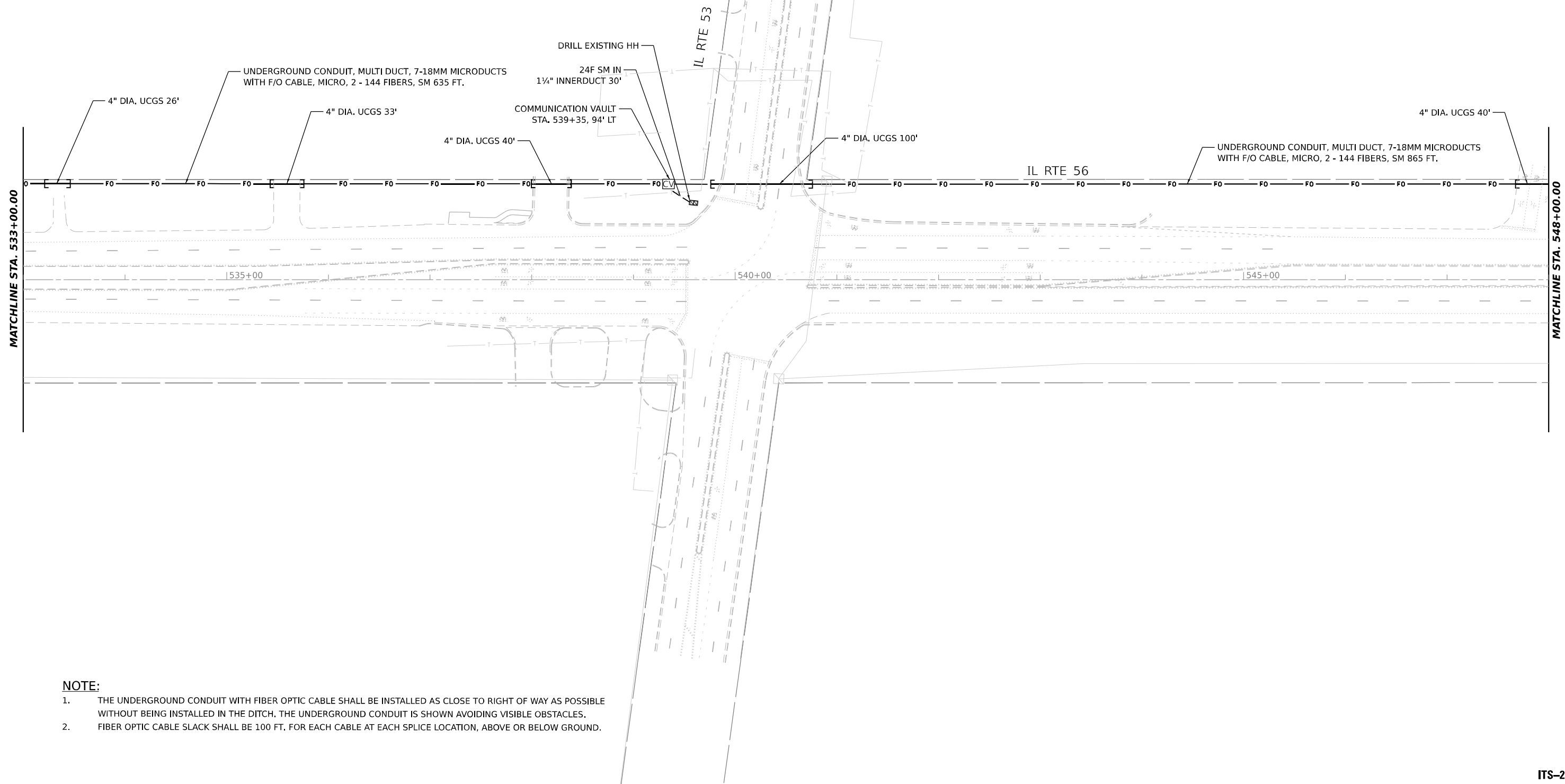
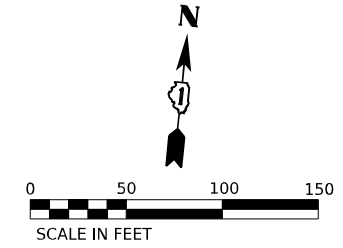
**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'      SHEET 28 OF 52 SHEETS      STA. 518+00 TO STA. 533+000

F.A.P. RTE. 365	SECTION 2020-265-SUR, SW & TS	COUNTY DUPAGE/COOK	TOTAL SHEETS 462	SHEET NO. 386
CONTRACT NO. 62N32			ILLINOIS FED. AID PROJECT	

ITS-28

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.

MODEL: 4100BELMAME  
FILE NAME: D:\ENR22-265-TS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - MD	REVISED -
PLOT DATE = 2/23/2024	CHECKED - MH	REVISED -
	DATE - 9/15/22	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

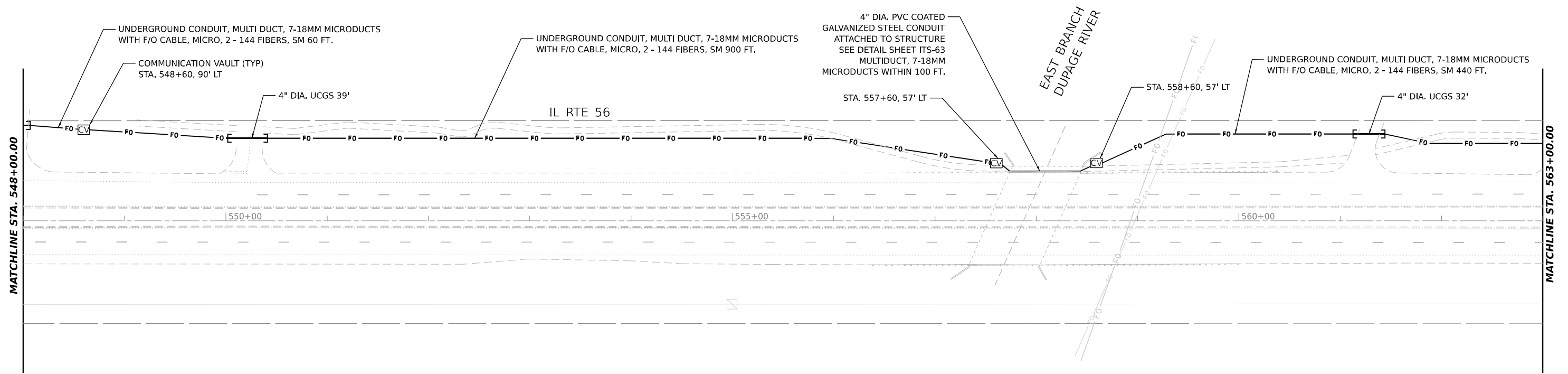
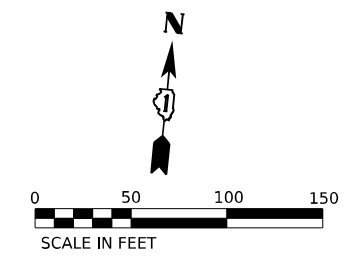
**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'      SHEET 29 OF 52 SHEETS      STA. 533+00      TO STA. 548+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	387
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

Long Section Number





**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 4140BELMAME  
FILE NAME: D:\ENR22-265-ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
DRAWN - MD	CHECKED - MH	REVISED -
PLOT SCALE = \$SCALE\$	DATE - 9/15/22	REVISED -
PLOT DATE = 2/23/2024		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

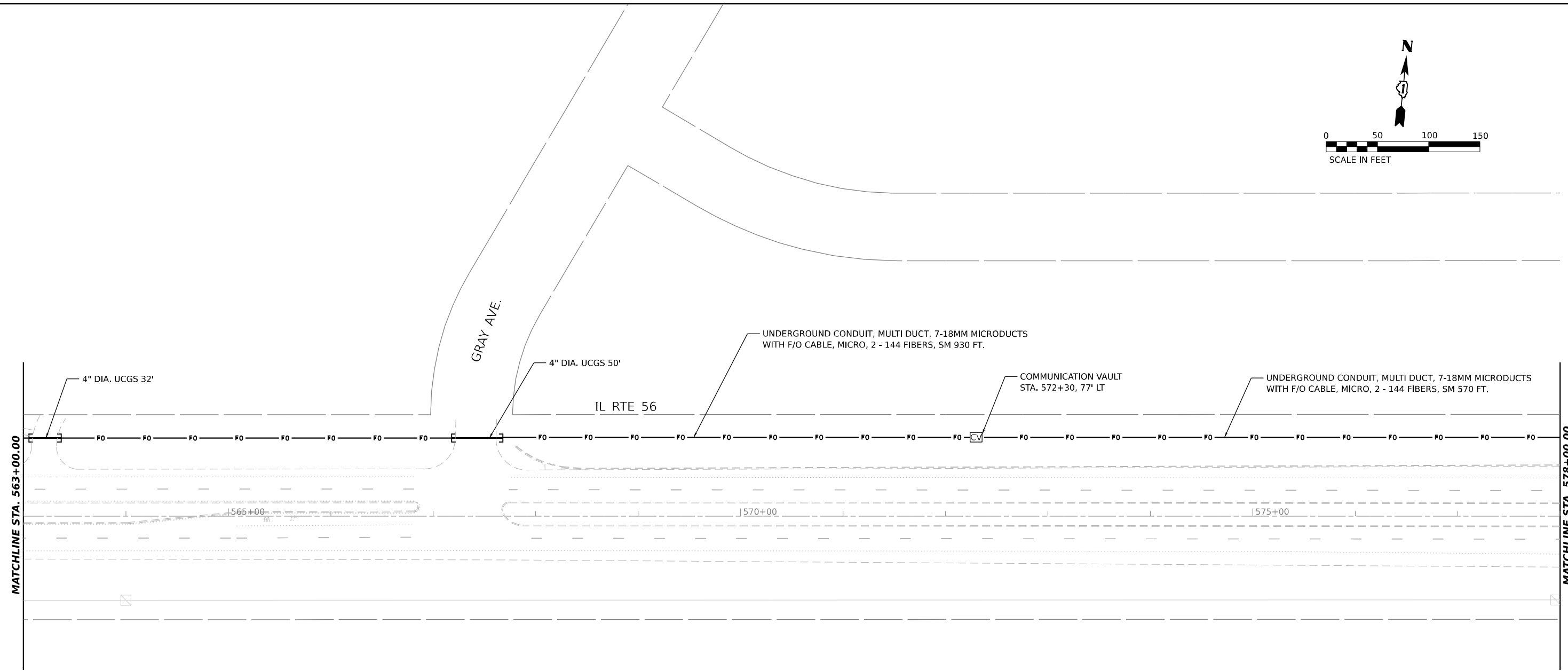
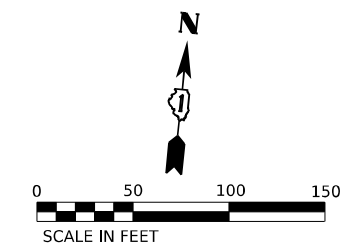
**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'    SHEET 30 OF 52 SHEETS    STA. 548+00 TO STA. 563+000

F.A.P. RTE. 365	SECTION 2020-265-SUR, SW & TS	COUNTY DUPAGE/COOK	TOTAL SHEETS 462	SHEET NO. 388
CONTRACT NO. 62N32			ILLINOIS FED. AID PROJECT	

**ITS-30**

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH, THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 4140BELNAMES  
FILE NAME: D:\ENR22-265-ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
	DRAWN - MD	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - MH	REVISED -
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

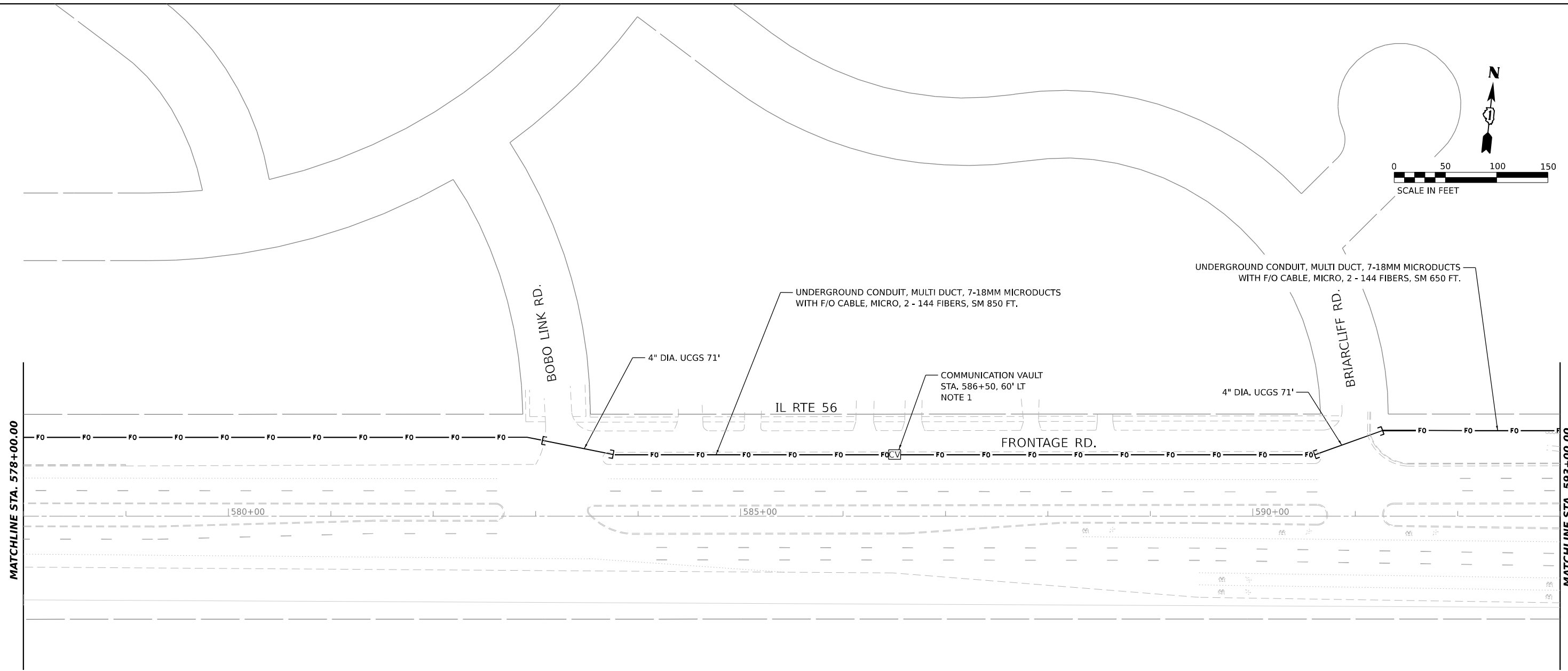
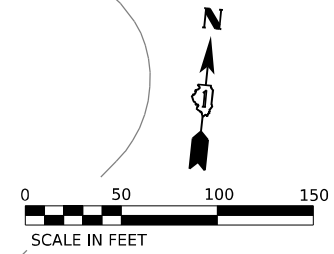
**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'    SHEET 31 OF 52 SHEETS    STA. 563+00 TO STA. 578+000

F.A.P. RTE. 365	SECTION 2020-265-SUR, SW & TS	COUNTY DUPAGE/COOK	TOTAL SHEETS 462	SHEET NO. 389
CONTRACT NO. 62N32			ILLINOIS FED. AID PROJECT	

ITS-31

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 4140BELMAME  
 FILE NAME: D:\ENR22-265-ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
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PLOT SCALE = \$SCALE\$	DATE - 9/15/22	REVISED -
PLOT DATE = 2/23/2024		

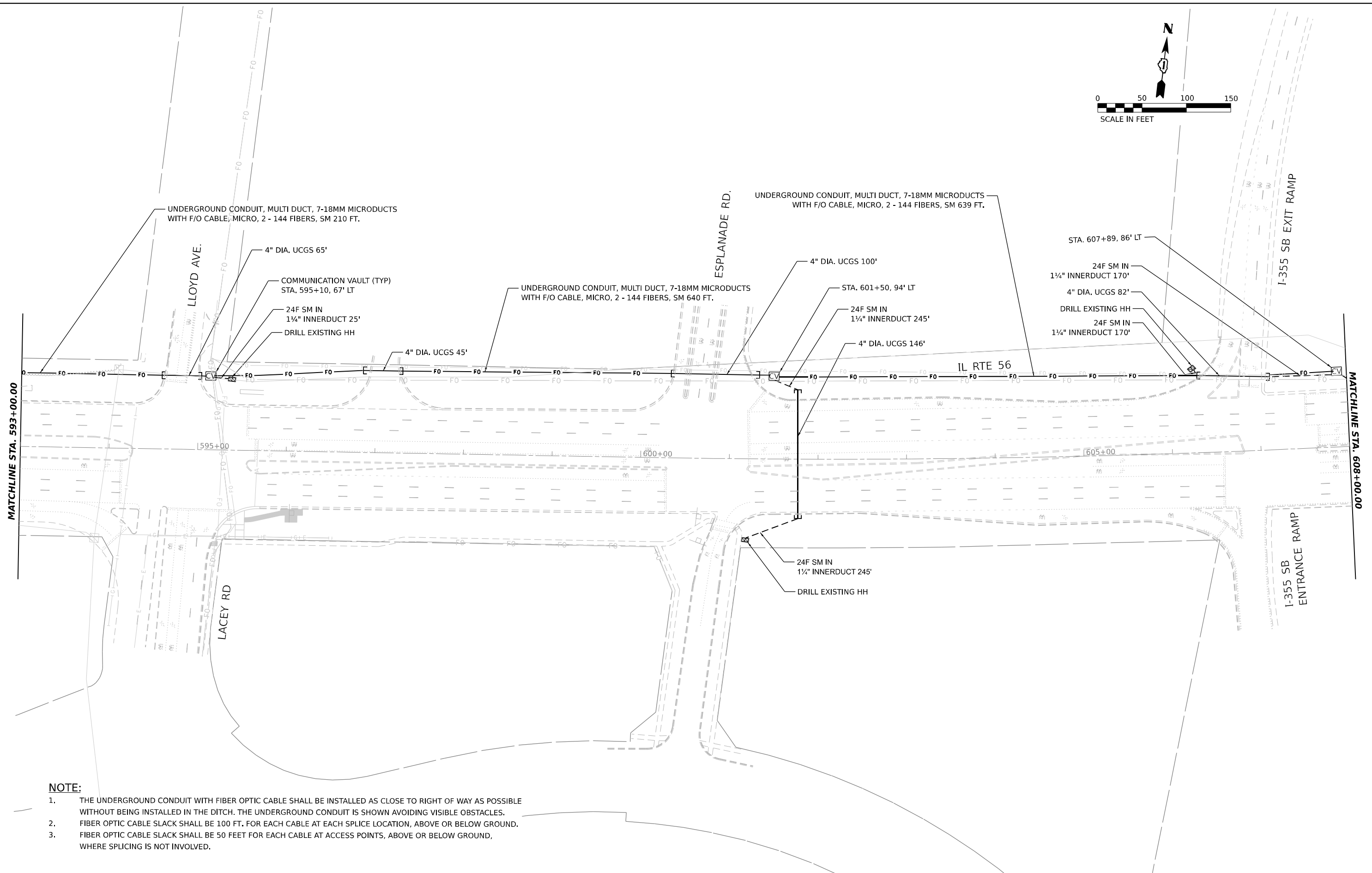
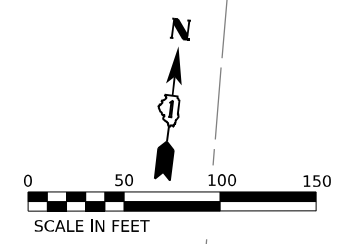
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PROPOSED FIBER ROUTE PLANS**  
**IL ROUTE 56**  
 SCALE: 1"=50'    SHEET 32 OF 52 SHEETS    STA. 578+00 TO STA. 593+000

F.A.P. RTE. 365	SECTION 2020-265-SUR, SW & TS	COUNTY DUPAGE/COOK	TOTAL SHEETS 462	SHEET NO. 390
CONTRACT NO. 62N32			ILLINOIS FED. AID PROJECT	

ITS-32

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.
3. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 4100BELNAMES  
FILE NAME: D:\ENR22-265-TS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - MD	REVISED -
PLOT DATE = 2/23/2024	CHECKED - MH	REVISED -
	DATE - 9/15/22	REVISED -

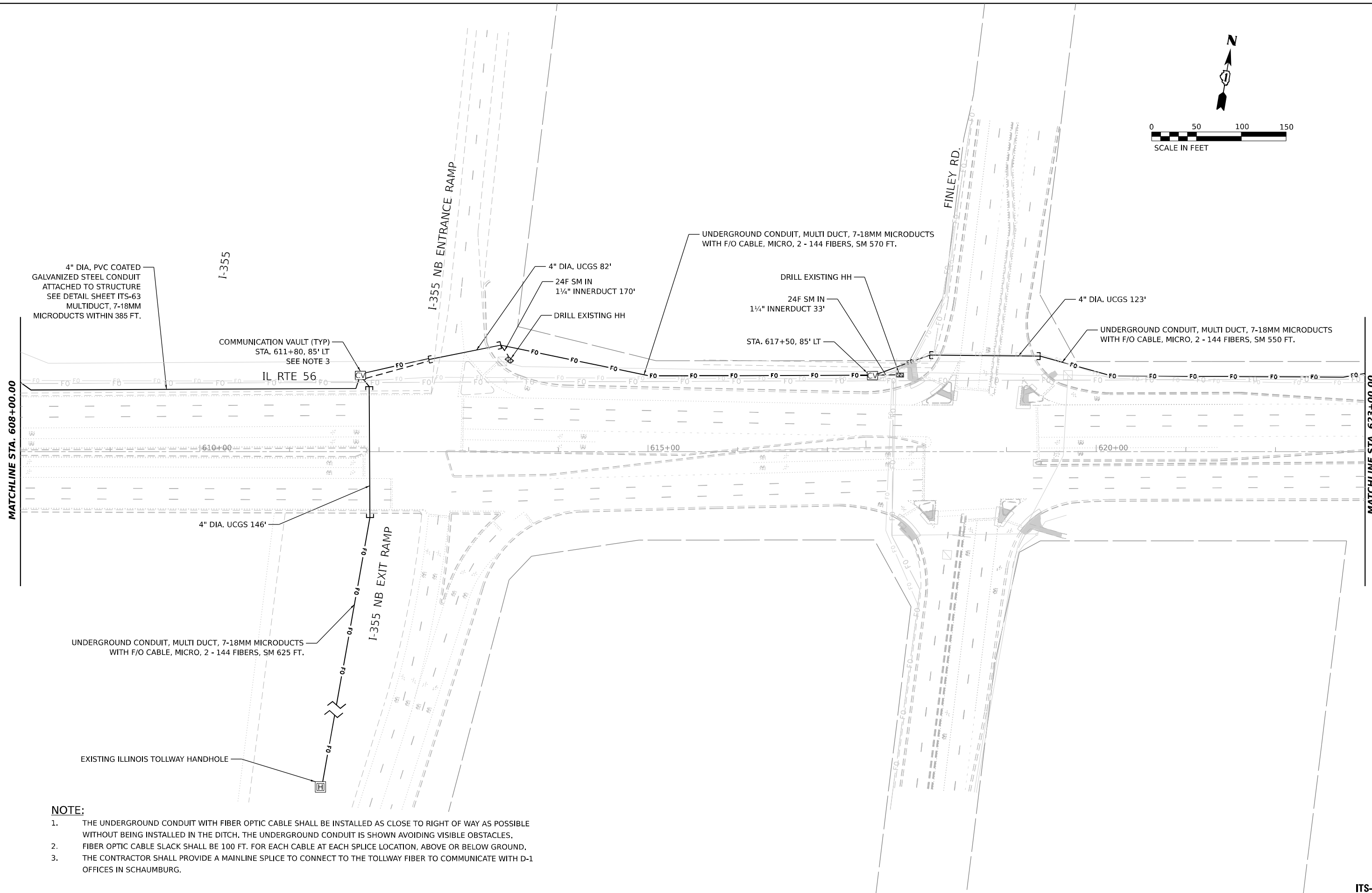
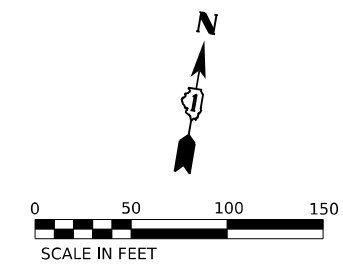
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'      SHEET 33 OF 52 SHEETS      STA. 593+00      TO STA. 608+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	391
CONTRACT NO. 62N32				

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.
3. THE CONTRACTOR SHALL PROVIDE A MAINLINE SPLICE TO CONNECT TO THE TOLLWAY FIBER TO COMMUNICATE WITH D-1 OFFICES IN SCHAUMBURG.

MODEL: 4140BELNAME  
 FILE NAME: D:\ENR22-26\ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - MD	REVISED -
PLOT DATE = 2/23/2024	CHECKED - MH	REVISED -
	DATE - 9/15/22	REVISED -

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

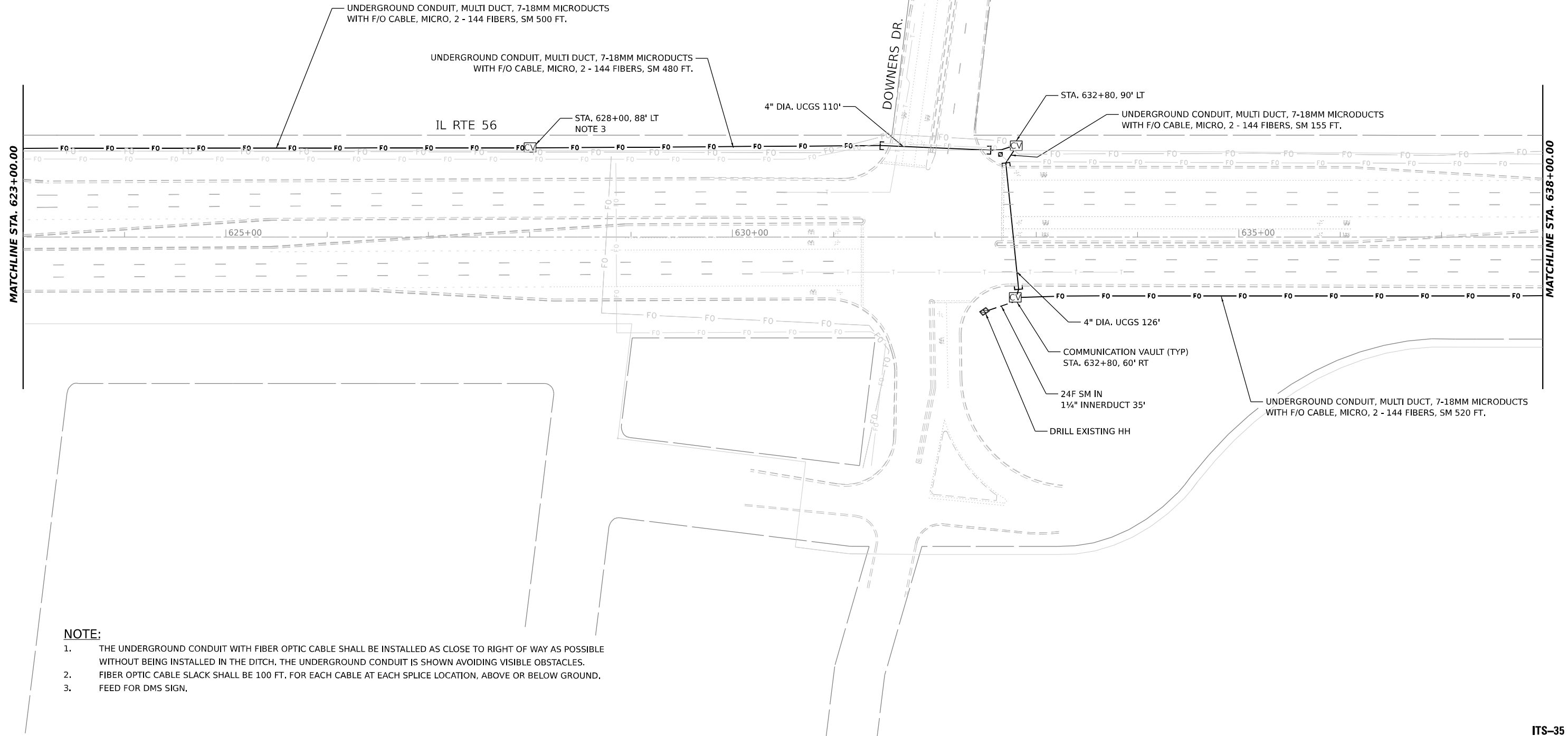
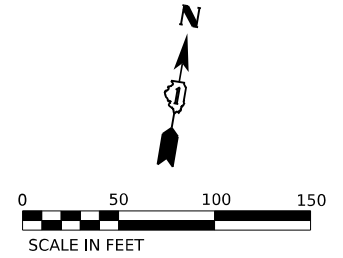
**PROPOSED FIBER ROUTE PLANS**  
**IL ROUTE 56**

SCALE: 1"=50'    SHEET 34 OF 52 SHEETS    STA. 608+00    TO STA. 623+000

F.A.P. RTE. 365	SECTION 2020-265-SUR, SW & TS	COUNTY DUPAGE/COOK	TOTAL SHEETS 462	SHEET NO. 392
CONTRACT NO. 62N32			ILLINOIS FED. AID PROJECT	

ITS-34

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.
3. FEED FOR DMS SIGN.

MODEL: 4100BELMAME  
FILE NAME: D:\ENR22-265-ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
DRAWN - MD	REVISIONS -	
PLOT SCALE = \$SCALE\$	CHECKED - MH	REVISED -
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

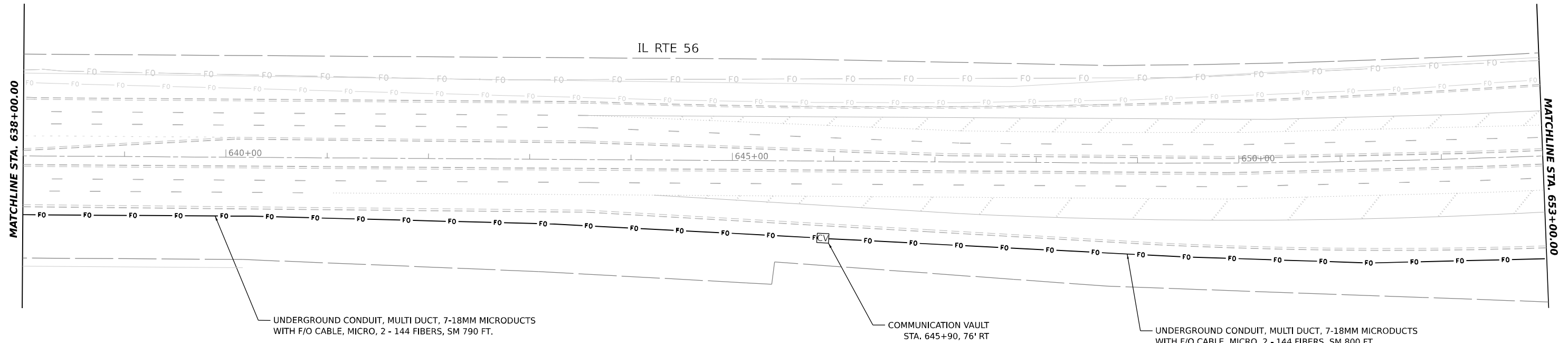
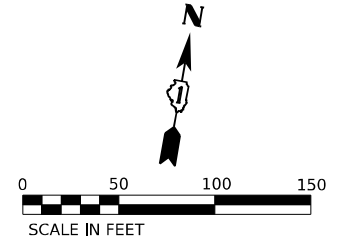
SCALE: 1"=50'      SHEET 35 OF 52 SHEETS      STA. 623+00 TO STA. 638+000

F.A.P. RTE. 365	SECTION 2020-265-SUR, SW & TS	COUNTY DUPAGE/COOK	TOTAL SHEETS 462	SHEET NO. 393
CONTRACT NO. 62N32			ILLINOIS FED. AID PROJECT	

ITS-35

Long Section Number





**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 4100BELNAMES  
FILE NAME: D:\ENR22-265-ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
	DRAWN - MD	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - MH	REVISED -
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

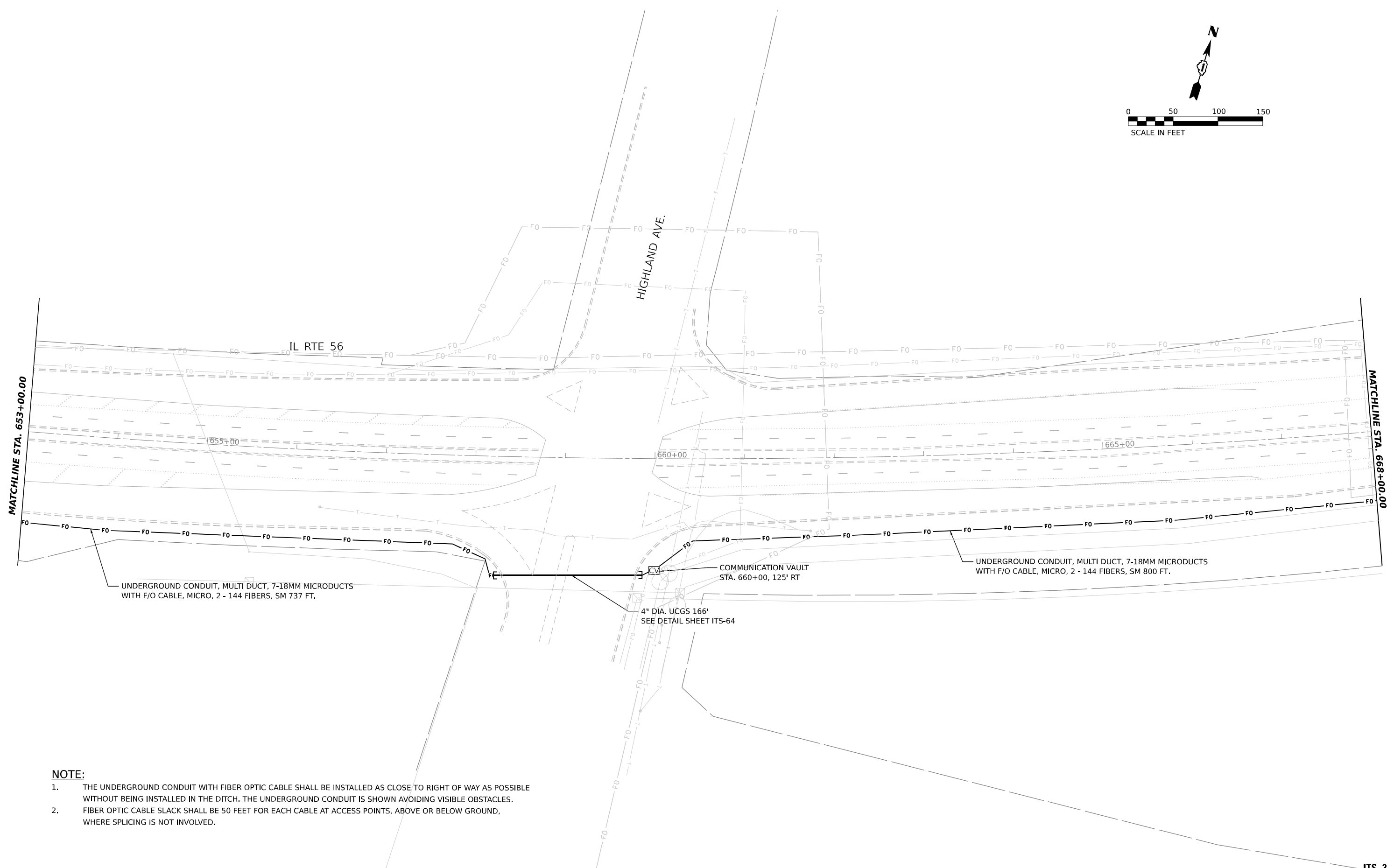
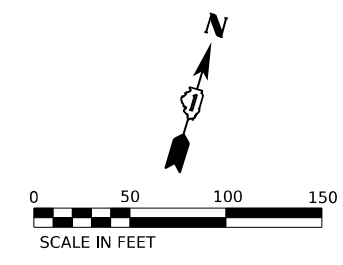
**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'    SHEET 36 OF 52 SHEETS    STA. 638+00 TO STA. 653+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	394
CONTRACT NO. 62N32				

ILLINOIS FED. AID PROJECT  
Long Section Number

ITS-36



UNDERGROUND CONDUIT, MULTI DUCT, 7-18MM MICRODUCTS WITH F/O CABLE, MICRO, 2 - 144 FIBERS, SM 737 FT.

COMMUNICATION VAULT  
STA. 660+00, 125' RT

4" DIA. UCGS 166'  
SEE DETAIL SHEET ITS-64

UNDERGROUND CONDUIT, MULTI DUCT, 7-18MM MICRODUCTS WITH F/O CABLE, MICRO, 2 - 144 FIBERS, SM 800 FT.

**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 4100BELNAMES  
FILE NAME: D:\ENR22-265-ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - MD	REVISED -
PLOT DATE = 2/23/2024	CHECKED - MH	REVISED -
	DATE - 9/15/22	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

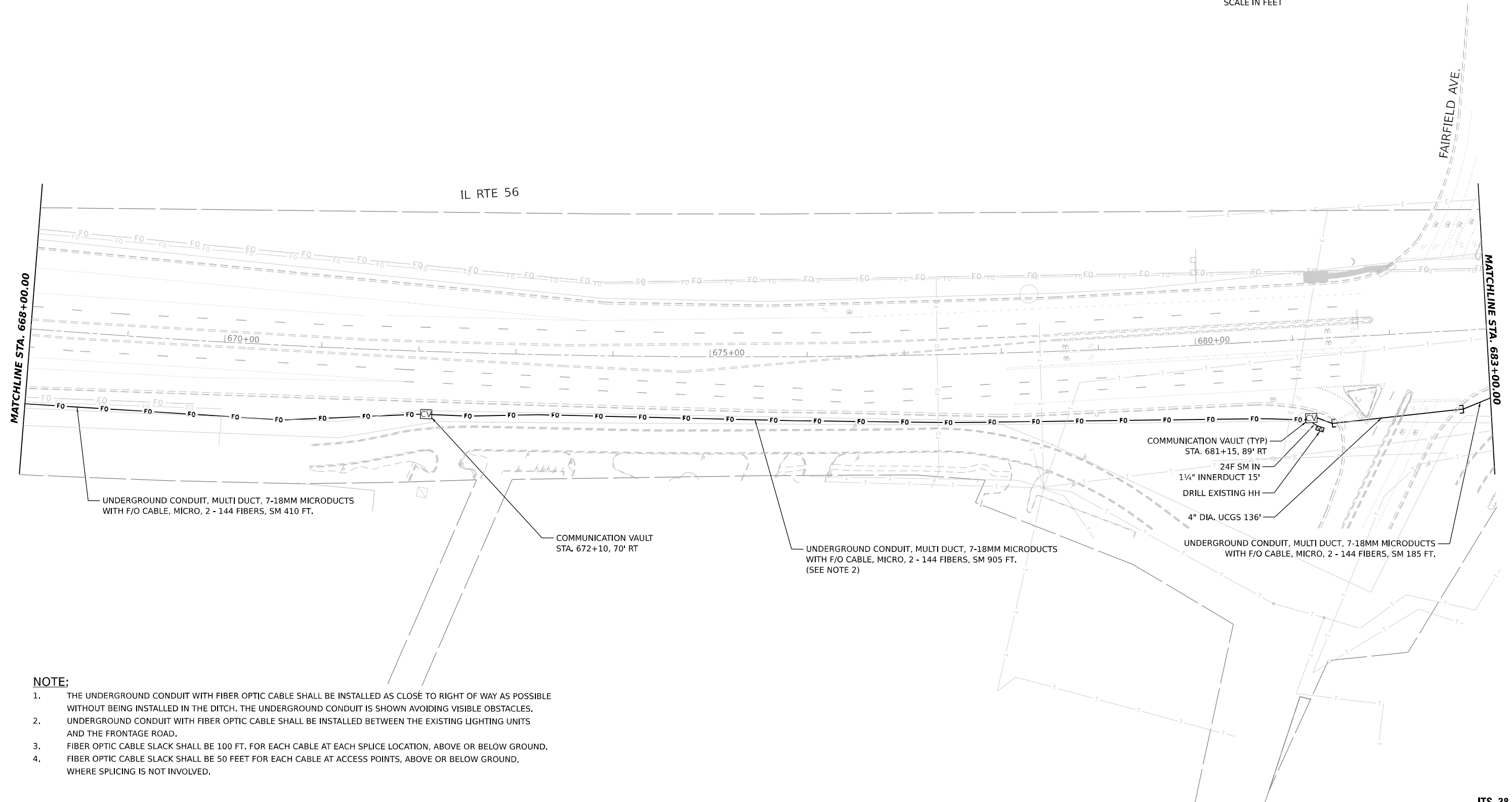
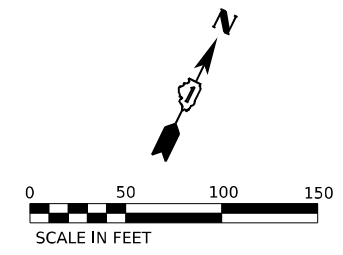
**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'    SHEET 37 OF 52 SHEETS    STA. 653+00 TO STA. 668+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	395
CONTRACT NO. 62N32				

Long Section Number

ITS-37



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED BETWEEN THE EXISTING LIGHTING UNITS AND THE FRONTAGE ROAD.
3. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.
4. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 4140BELMAME  
 FILE NAME: D:\ENR22-28\ITS-38.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - MD	REVISED -
PLOT DATE = 2/23/2024	CHECKED - MH	REVISED -
	DATE - 9/15/22	REVISED -

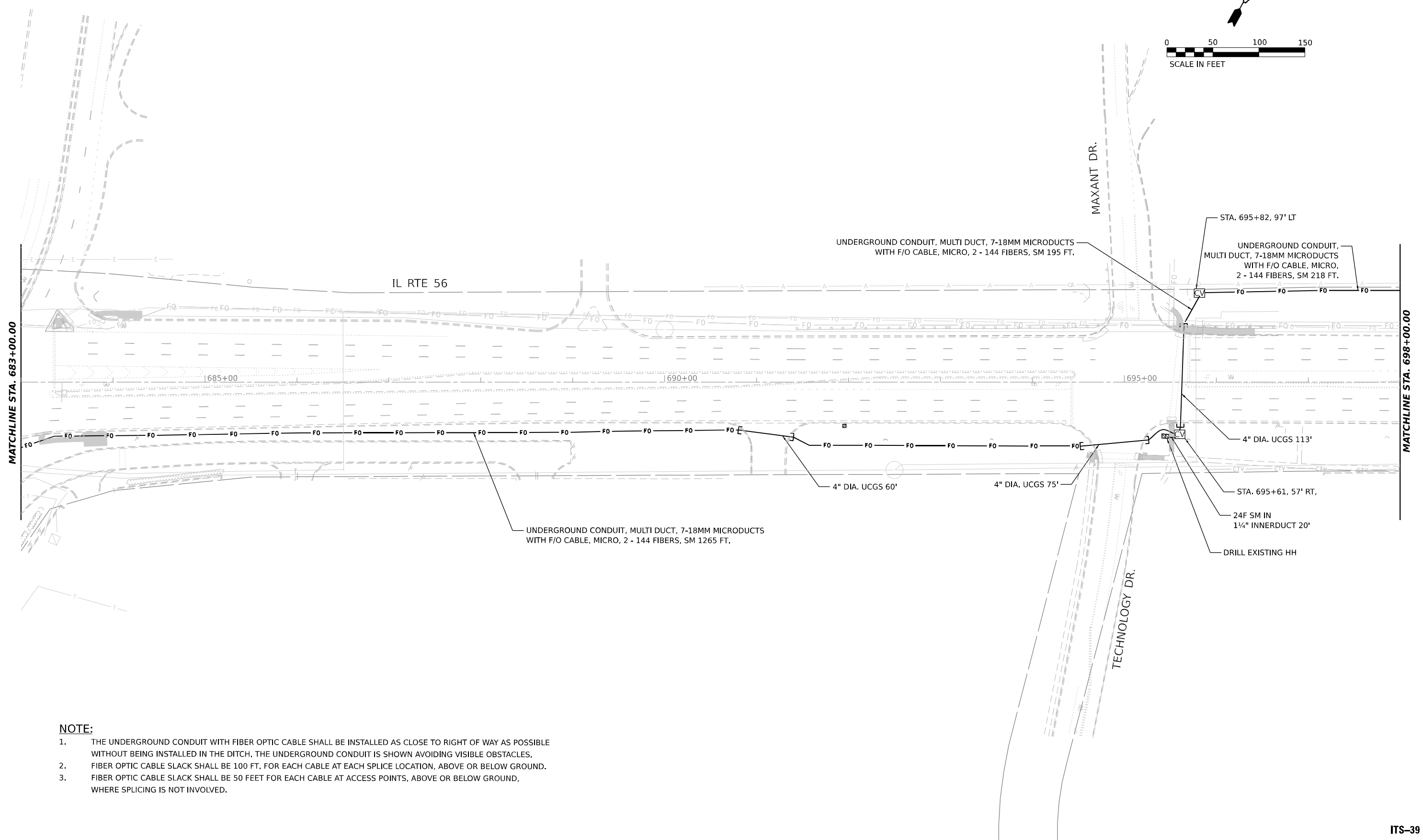
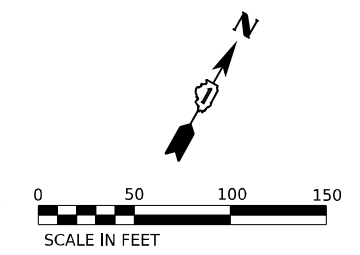
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PROPOSED FIBER ROUTE PLANS**  
**IL ROUTE 56**  
 SCALE: 1"=50'    SHEET 38 OF 52 SHEETS    STA. 668+00 TO STA. 683+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	396
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

ITS-38

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.
3. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

MODEL: 4100BELMAME  
 FILE NAME: D:\ENR22-265-TS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - MD	REVISED -
PLOT DATE = 2/23/2024	CHECKED - MH	REVISED -
	DATE - 9/15/22	REVISED -

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

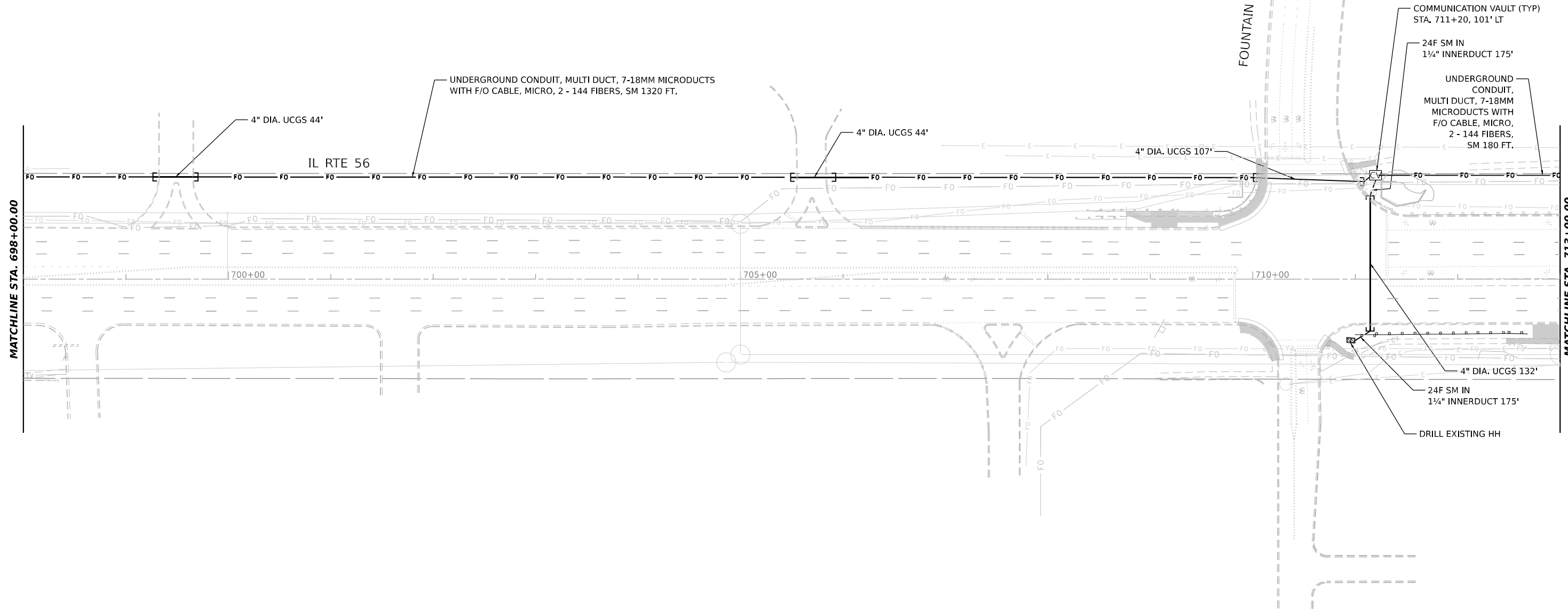
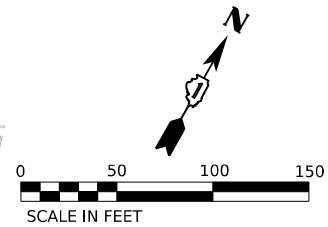
**PROPOSED FIBER ROUTE PLANS**  
**IL ROUTE 56**

SCALE: 1"=50'      SHEET 39 OF 52 SHEETS      STA. 683+00 TO STA. 698+000

F.A.P. RTE. 365	SECTION 2020-265-SUR, SW & TS	COUNTY DUPAGE/COOK	TOTAL SHEETS 462	SHEET NO. 397
CONTRACT NO. 62N32			ILLINOIS FED. AID PROJECT	

Long Section Number

ITS-39



- NOTE:**
1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
  2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.

MODEL: 4140BELMAME  
 FILE NAME: D:\ENR22-26\ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
DRAWN - MD	CHECKED - MH	REVISED -
PLOT SCALE = \$SCALE\$	DATE - 9/15/22	REVISED -
PLOT DATE = 2/23/2024		

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

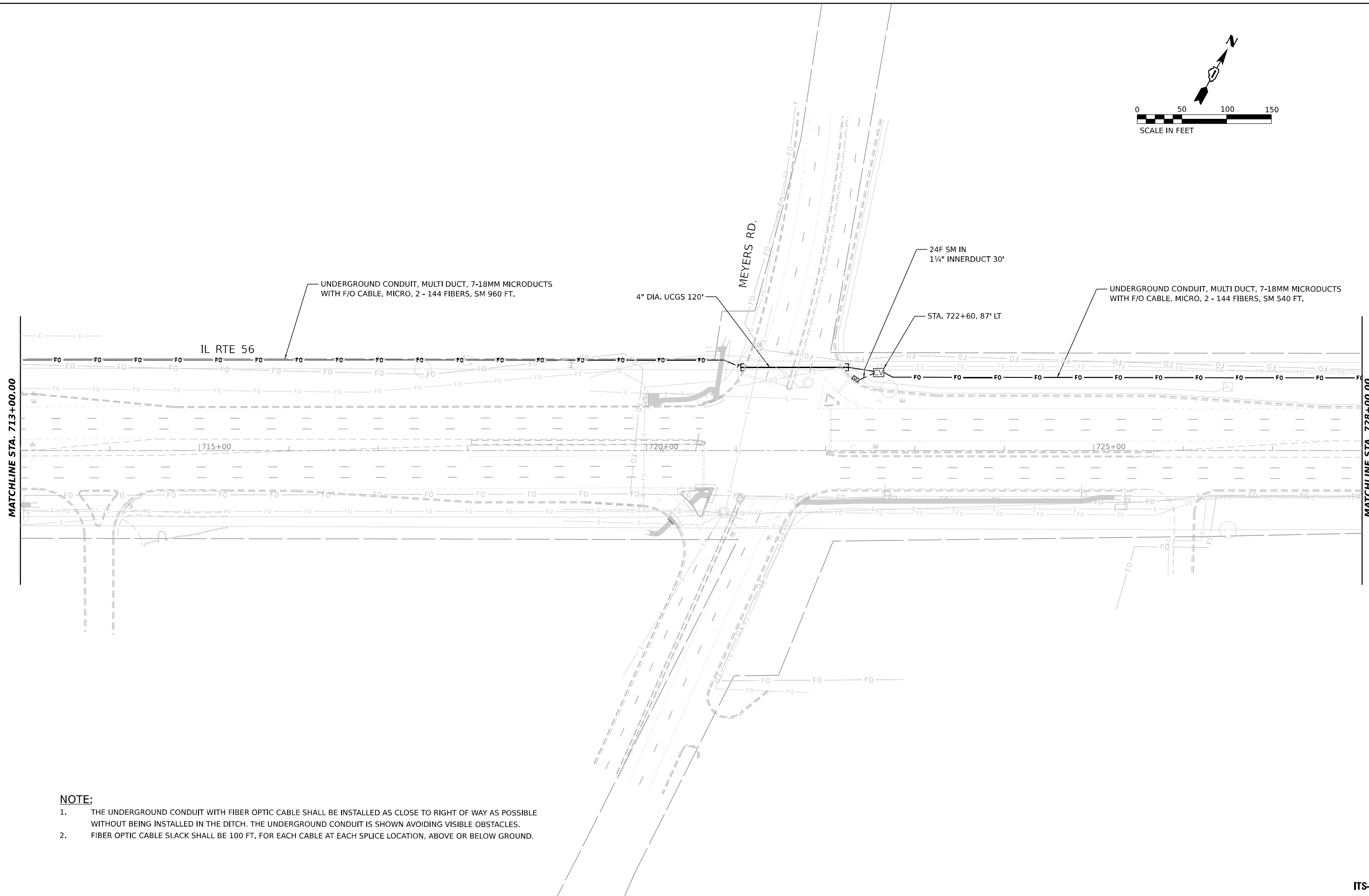
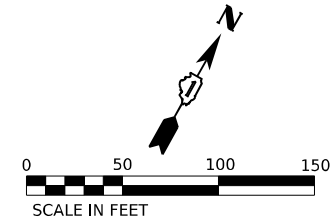
**PROPOSED FIBER ROUTE PLANS**  
**IL ROUTE 56**

SCALE: 1"=50'    SHEET 40 OF 52 SHEETS    STA. 698+00 TO STA. 713+000

F.A.P. RTE. 365	SECTION 2020-265-SUR, SW & TS	COUNTY DUPAGE/COOK	TOTAL SHEETS 462	SHEET NO. 398
CONTRACT NO. 62N32			ILLINOIS FED. AID PROJECT	

ITS-40

Long Section Number



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.

MODEL: 4140BELMAME  
FILE NAME: D:\ENR22-265\ITS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - MD	REVISED -
PLOT DATE = 2/23/2024	CHECKED - MH	REVISED -
	DATE - ## 2/23/24	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

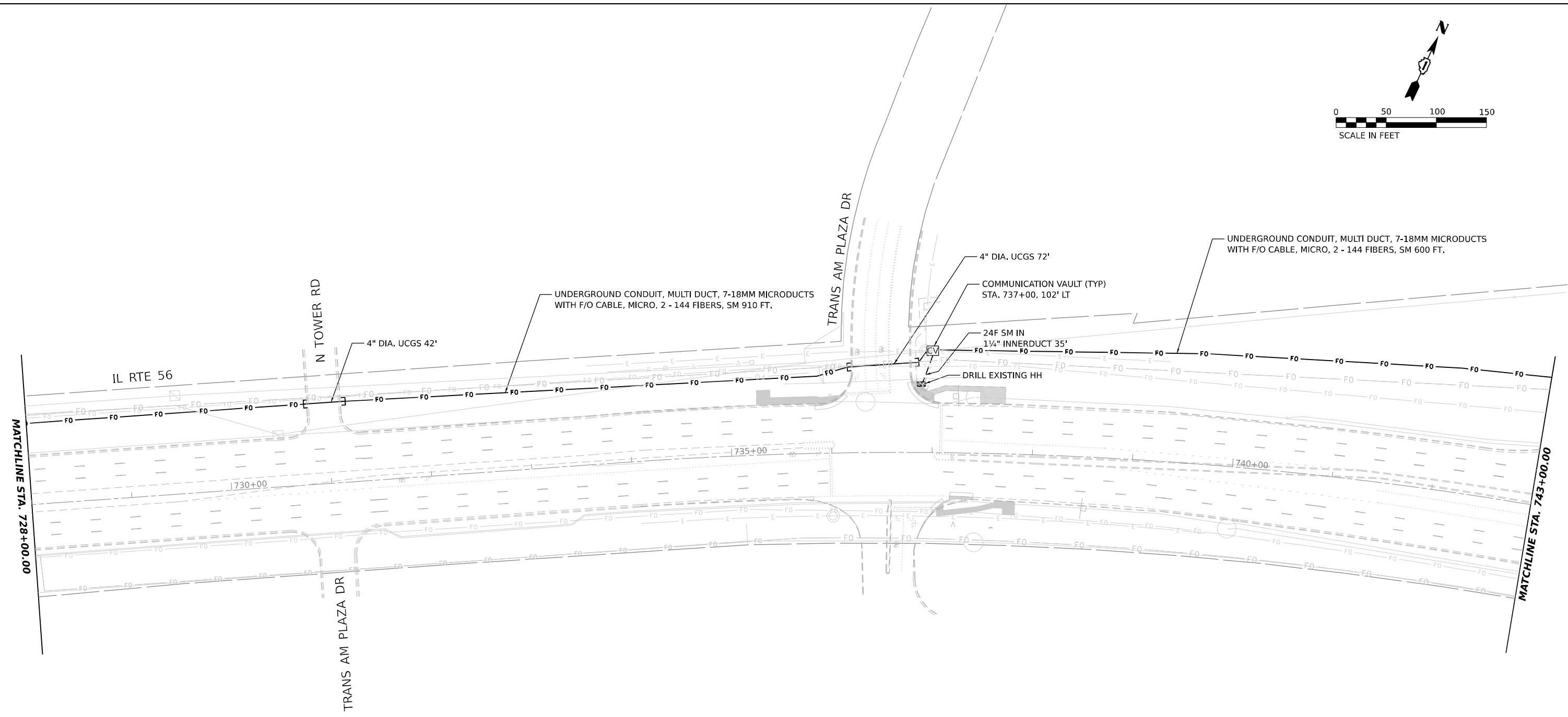
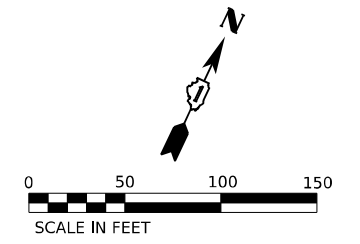
**PROPOSED FIBER ROUTE PLANS  
IL ROUTE 56**

SCALE: 1"=50'      SHEET 41 OF 52 SHEETS      STA. 713+00 TO STA. 728+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	399
CONTRACT NO. 62N32				

Long Section Number

ITS-41



**NOTE:**

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.

MODEL: 4100BELMAME  
 FILE NAME: D:\ENR22-265-TS.dgn

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

USER NAME = shassan	DESIGNED - BL	REVISED -
	DRAWN - MD	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - MH	REVISED -
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -

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

**PROPOSED FIBER ROUTE PLANS**  
**IL ROUTE 56**

SCALE: 1"=50'    SHEET 42 OF 52 SHEETS    STA. 728+00 TO STA. 743+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	400
CONTRACT NO. 62N32				
ILLINOIS FED. AID PROJECT				

ITS-42

Long Section Number