06-14-2024 LETTING ITEM 192

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 5 - 11

### TRAFFIC DATA

IL 159 NORTH OF LONGACRE/ASHLAND: 27.200

IL 159 SOUTH OF LONGACRE/ASHLAND: 23,700

### **TOWNSHIP**

**CASEYVILLE** 

### POSTED SPEED

IL-159: 35 MPH, 45 MPH I-64: 65 MPH



DELTA ENGINEERING GROUP, LLC CONSULTING ENGINEERS, CONSTRUCTION MANAGERS
111 W JACKSON BLVD, SUITE 910 CHICAGO, IL 60604 T 312.377.7700, F 312.427 6145



MUHAMMAD ARIF DATE:3-21-2024

# iteris

319 W STATE STREET, SUITE 200 GENEVA, IL 60134

IL DESIGN FIRM NO: 184007145-0002



P. BRIEN FUNK II

0

INTERSECTION OF IL 159 AND LUDWIG-SALEM LATITUDE: 38° 36'7.76"N LONGITUDE: 89 59'6.01"W

**BEGIN PROJECT** 

BEGIN PROJECT 1-64 OVERHEAD SIGN STRUCTURE LATITUDE: 38° 35'59"N LONGITUDE: 90°00'37"W

**END PROJECT 1-64** INTERSECTION OF IL 159 AND 1-64 WB RAMP LATITUDE: 38 35'56"N LONGITUDE: 89 59'36"W

**END PROJECT** INTERSECTION OF IL 159 AND IL 161 /N BELT WEST LATITUDE: 38° 32'00"N LONGITUDE: 89º 59'00"W

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

PROJECT ENGINEER: CHERYL KEPLAR PROJECT MANAGER: RICHARD BARBEE

**CONTRACT NO. 76R78** 

# STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

# **PROPOSED HIGHWAY PLANS**

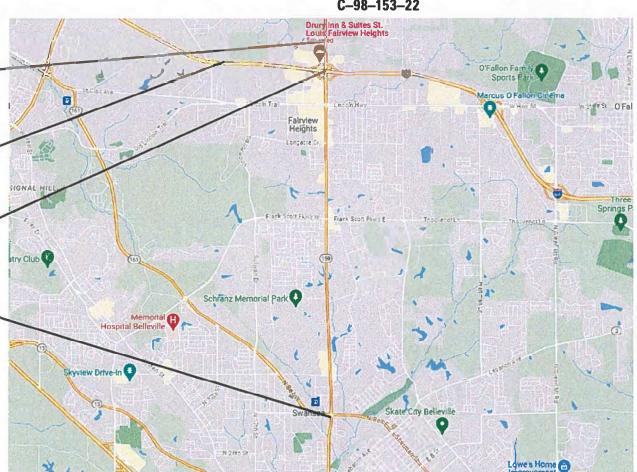
**FAP ROUTE 600 (IL 159)** FAI 064 (I-64)

**SECTION:** (130, 130–1, 130–2)TS–3, 82–5TS

PROJECT: CMAQ-HSIP-4U5N(249)

TRAFFIC SIGNAL IMPROVEMENT ST. CLAIR COUNTY

C-98-153-22



GROSS LENGTH = 11,616 FT = 2.2 MILES NET LENGTH = 11,616 FT = 2.2 MILES

#### D-98-121-22





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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- SOIL IL 159 AND LINCOLN HIGHWAY/LINCOLN TRAIL TRAFFIC SIGNALS - IL 159 AND LINCOLN PLACE SHOPPING CENTER 34\_36
- 37-38 SOIL - IL 159 AND LINCOLN PLACE SHOPPING CENTER
- TRAFFIC SIGNALS IL 159 AND LONGACRE DRIVE/ASHLAND AVENUE
- 42-43 SOIL - IL 159 AND LONGACRE DRIVE/ASHLAND AVENUE
- TRAFFIC SIGNALS IL 159 AND CHATEAU DRIVE 44-45
- SOIL IL 159 AND CHATEAU DRIVE
- 47-48 TRAFFIC SIGNALS - IL 159 AND FRANK SCOTT PARKWAY
- TRAFFIC SIGNALS IL 159 AND GREEN HAVEN DRIVE
- 51 SOIL - IL 159 AND GREEN HAVEN DRIVE
- 52-53 TRAFFIC SIGNALS - IL 159 AND HUNTWOOD ROAD
- SOIL IL 159 AND HUNTWOOD ROAD
- 55-56 TRAFFIC SIGNALS - IL 159 AND ROSEWOOD VILLAGE DRIVE
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- PEDESTRIAN PUSH BUTTON POST DETAIL

#### HIGHWAY STANDARDS

000001-08	701401-13	701901-09	878001-11
001001-02	701406-13	720001-01	880006-01
001006	701421-08	720016-04	
606301-04	701422-10	814001-03	
701001-02	701428-01	814006-03	
701006-05	701456-05	857001-01	
701106-02	701601-09	862001-01	
701 <b>2</b> 06-05	701602-10	873001-02	
701301-04	701701-10	877001 <b>-</b> 08	
701400-12	701801-06	877002-04	

#### TRAFFIC SIGNAL LEGEND

PROP. TRAFFIC SIGNAL CONTROLLER

PROP. GROUNDING

PROP. NO. OF CONDUCTORS IN CABLE

PROP. 12" SIGNAL HEAD

EX. VEHICLE DETECTOR, INDUCTION LOOP

EX. NO. OF CONDUCTORS IN CABLE

EX. 12" SIGNAL HEAD

EX. GROUND MOUNT SERVICE EX. GROUNDING

EX. EMERGENCY VEHICLE PREEMPTION

#### **GENERAL NOTES:**

- 1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS
- 2. NO SURVEY WAS PERFORMED FOR THIS PROJECT AND THE PLANS WERE CREATED USING AERIAL IMAGERY AND FIELD MEASUREMENTS.
- 3. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY. ACCORDING TO THE ARTICLE 202.30 OF THE STANDARD SPECIFICATION AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COSTS OF THE UNDERGROUND CONDUIT.
- 4. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUBCONTRACTORS TO HIRE MINORITY. WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES. WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION RELATED SKILLS, E.G. MATH FOR THE TRADES, JOB READINESS. TECHNICAL SKILLS COURSE WORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLAN, SITE WORK, TOOLS USE, ETC,) AND OSHA 10 HOUR CERTIFICATION. TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT (618) 346-3360 AND/OR THE HCCTP COORDINATOR AT (618) 874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
- 5. EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS WERE COMPILED FROM THE BEST AVAILABLE RECORDS. EXACT DISTANCES AND LOCATIONS OF UTILITIES TO BE RELOCATED HAVE NOT BEEN DETERMINED. ALL UTILITIES, EITHER SHOWN OR NOT SHOWN, IN DIRECT CONFLICT WITH THE CONSTRUCTION SHALL BE RELOCATED BY OTHERS (RESPECTIVE UTILITY COMPANY). CONTRACTORS SHALL COORDINATE WITH THE VARIOUS TO ESTABLISH EXACT LOCATIONS AND DEPTHS PRIOR TO EXCAVATING. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND SUPPORTING ALL UTILITIES DURING CONSTRUCTION OPERATIONS. CONTRACTOR SHALL CONTACT THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) AT 1-800-892-0123 FOR LOCATING THE VARIOUS UTILITIES DURING CONSTRUCTION.
- 6. THE CONTRACTOR SHALL NOTIFY EACH AFFECTED PROPERTY OWNER A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION

#### LOCATION 1

#### IL ROUTE 159 AT LUDWIG DRIVE/ SALEM PLACE

AMEREN ILLINOIS AT&T ILLINOIS GAS & ELECTRIC COMMUNICATIONS CHARTER SPECTRUM CLEARWAVE COMMUNICATIONS COMMUNICATIONS CASEYVILLE TOWNSHIP SEWER SYSTEM SEWER COMMUNICATIONS EVERSTREAM GLC HOLDING CO. EXTENENT SYSTEMS LLC COMMUNICATIONS CITY OF FAIRVIEW HEIGHTS SEWER MCI/ VERIZON COMMUNICATIONS COMMUNICATIONS LEVEL 3/ LUMEN CITY OF O'FALLON SEWER & WATER BUCKEYE PARTNERS PIPELINE

#### LOCATION 2

#### IL ROUTE 159 AT I-64 WB RAMPS

AMEREN ILLINOIS AT&T ILLINOIS GAS & ELECTRIC COMMUNICATIONS CHARTER SPECTRUM CABLE TV CLEARWAVE COMMUNICATIONS COMMUNICATIONS CASEYVILLE TOWNSHIP SEWER SYSTEM SEWER COMMUNICATIONS EVERSTREAM GLC HOLDING CO. EXTENENT SYSTEMS LLC COMMUNICATIONS CITY OF FAIRVIEW HEIGHTS SEWER MCI/ VERIZON COMMUNICATIONS SEWER & WATER CITY OF O'FALLON **BUCKEYE PARTNERS** PIPELINE

#### LOCATION 3

#### IL ROUTE 159 AT I-64 EB RAMPS

AMEREN ILLINOIS AT&T ILLINOIS GAS & ELECTRIC COMMUNICATIONS CHARTER SPECTRUM CABLE TV CLEARWAVE COMMUNICATIONS COMMUNICATIONS CASEYVILLE TOWNSHIP SEWER SYSTEM SEWER EVERSTREAM GLC HOLDING CO COMMUNICATIONS EXTENENT SYSTEMS LLC COMMUNICATIONS CITY OF FAIRVIEW HEIGHTS COMMUNICATIONS COMMUNICATIONS MCI/ VERIZON CITY OF O'FALLON SEWER & WATER **BUCKEYE PARTNERS** 

### LOCATION 4

#### IL ROUTE 159 AT MARKET PLACE/ ST. CLAIR SQUARE

AMEREN ILLINOIS AT&T ILLINOIS **GAS & ELECTRIC** COMMUNICATIONS CHARTER SPECTRUM CABLE TV **CLEARWAVE COMMUNICATIONS** COMMUNICATIONS CASEYVILLE TOWNSHIP SEWER SYSTEM SEWER EVERSTREAM GLC HOLDING CO COMMUNICATIONS EXTENENT SYSTEMS LLC COMMUNICATIONS CITY OF FAIRVIEW HEIGHTS SEWER MCI/ VERIZON COMMUNICATIONS CITY OF O'FALLON SEWER & WATER **BUCKEYE PARTNERS** 

#### LOCATION 5

#### IL ROUTE 159 AT FAIRVIEW HEIGHTS CENTRE

AMEREN ILLINOIS **GAS & ELECTRIC** COMMUNICATIONS AT&T ILLINOIS CHARTER SPECTRUM CABLE TV CLEARWAVE COMMUNICATIONS COMMUNICATIONS CASEYVILLE TOWNSHIP SEWER SYSTEM SEWER EVERSTREAM GLC HOLDING CO COMMUNICATIONS COMMUNICATIONS COMMUNICATIONS COMMUNICATIONS FIDELITY COMMUNICATIONS SERVICES INC MCI/ VERIZON CITY OF O'FALLON SEWER & WATER **BUCKEYE PARTNERS** 

#### LOCATION 6

#### IL ROUTE 159 AT LINCOLN HIGHWAY/LINCOLN TRAIL

AMEREN ILLINOIS AT&T ILLINOIS I-3 BROADBAND CHARTER SPECTRUM CLEARWAVE COMMUNICATIONS CASEYVILLE TOWNSHIP SEWER SYSTEM EXTENENT SYSTEMS LLC
FIDELITY COMMUNICATIONS SERVICES INC CITY OF FAIRVIEW HEIGHTS VERIZON CITY OF O'FALLON **BUCKEYE PARTNERS** 

GAS & ELECTRIC COMMUNICATIONS COMMUNICATIONS CABLE TV COMMUNICATIONS SEWER COMMUNICATIONS COMMUNICATIONS COMMUNICATIONS SEWER COMMUNICATIONS SEWER & WATER **PIPELINE** 

REV. - MS

111 W.TACKSON BLVD, SUITE 910 CHICAGO, IL 60604 T 312.377.7700, F 312.427 6145

USER NAME = \$USER\$ DESIGNED REVISED DRAWN NS REVISED LOT SCALE = \$SCALE\$ REVISED PLOT DATE = \$DATE\$ REVISED DATE 03/01/2024

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SCALE: NTS

GENERAL NOTES, INDEX OF SHEET **HIGHWAY STANDARDS** TRAFFIC SIGNALS LEGEND TO STA. OF SHEETS STA.

SECTION COUNTY 600 (130.130-1.130-2) TS-3, 82-5TS ST, CLAIR 74 2 CONTRACT NO. 76R78

#### LOCATION 7

#### IL ROUTE 159 AT LINCOLN PLACE SHOPPING CENTER

AMEREN ILLINOIS AT&T ILLINOIS GAS & ELECTRIC COMMUNICATIONS CHARTER SPECTRUM CABLE TV **CLEARWAVE COMMUNICATIONS** COMMUNICATIONS CASEYVILLE TOWNSHIP SEWER SYSTEM SEWER COMMUNICATIONS EXTENENT SYSTEMS LLC FIDELITY COMMUNICATIONS SERVICES INC COMMUNICATIONS SEWER COMMUNICATIONS CITY OF FAIRVIEW HEIGHTS MCI/ VERIZON CITY OF O'FALLON SEWER & WATER **BUCKEYE PARTNERS** 

#### LOCATION 9

#### IL ROUTE 159 AT CHATEAU DRIVE

AMEREN ILLINOIS AT&T ILLINOIS GAS & ELECTRIC COMMUNICATIONS CHARTER SPECTRUM CLEARWAVE COMMUNICATIONS COMMUNICATIONS CASEYVILLE TOWNSHIP SEWER SYSTEM SEWER EVERSTREAM GLC HOLDING CO COMMUNICATIONS FIDELITY COMMUNICATIONS SERVICES INC COMMUNICATIONS WATER COMMUNICATIONS ILLINOIS AMERICAN WATER-EAST ST LOUIS MCI/ VERIZON CITY OF O'FALLON SEWER & WATER VILLAGE OF SWANSEA

#### LOCATION 11

#### IL ROUTE 159 & GREEN HAVEN DRIVE

AMEREN ILLINOIS
AT&T ILLINOIS
COMMUNICATIONS
CHARTER SPECTRUM
CLEARWAVE COMMUNICATIONS
EVERSTREAM GLC HOLDING CO
FIDELITY COMMUNICATION SERVICES ILL INC
ILLINOIS AMERICAN WATER-EAST ST LOUIS
WCI / VERIZON
VILLAGE OF SWANSEA

GAS & ELECTRIC
COMMUNICATIONS
COMMUNICATIONS
COMMUNICATIONS
WATER
COMMUNICATIONS
VILLAGE OF SWANSEA

#### LOCATION 13

#### IL ROUTE 159 & ROSEWOOD VILLAGE DRIVE

AMEREN ILLINOIS
AT&T ILLINOIS
COMMUNICATIONS
CHARTER SPECTRUM
CLEARWAVE COMMUNICATIONS
EVERSTREAM GLC HOLDING CO
ILLINOIS AMERICAN WATER-EAST ST LOUIS
WATER
MCI / VERIZON
VILLAGE OF SWANSEA
GAS & ELECTRIC
COMMUNICATIONS
COMMUNICATIONS
WATER
COMMUNICATIONS
SEWER

#### LOCATION 15

#### IL ROUTE 159 & METRO WAY

AMEREN ILLINOIS
AMEREN ILLINOIS
COMMUNICATIONS
CHARTER SPECTRUM
CLEARWAVE COMMUNICATIONS
EVERSTREAM GLC HOLDING CO
ILLINOIS AMERICAN WATER-EAST ST LOUIS
MCI / VERIZON
VILLAGE OF SWANSEA

GAS & ELECTRIC
COMMUNICATIONS
CABLE TV
CABLE TV
CABLE TV
COMMUNICATIONS
WATER
COMMUNICATIONS
SEWER
SEWER

#### LOCATION 8

#### IL ROUTE 159 AT LONGACRE DRIVE/ ASHLAND AVENUE

AMEREN ILLINOIS AT&T ILLINOIS GAS & ELECTRIC COMMUNICATIONS CHARTER SPECTRUM CABLE TV CLEARWAVE COMMUNICATIONS
CASEYVILLE TOWNSHIP SEWER SYSTEM COMMUNICATIONS SEWER EVERSTREAM GLC HOLDING CO COMMUNICATIONS FIDELITY COMMUNICATIONS SERVICES INC COMMUNICATIONS CITY OF FAIRVIEW HEIGHTS SEWER COMMUNICATIONS MCI/ VFRIZON CITY OF O'FALLON SEWER & WATER

#### LOCATION 10

#### IL ROUTE 159 AT FRANK SCOTT PARKWAY

AMEREN ILLINOIS AT&T ILLINOIS GAS & ELECTRIC COMMUNICATIONS CHARTER SPECTRUM CLEARWAVE COMMUNICATIONS CASEYVILLE TOWNSHIP SEWER SYSTEM COMMUNICATIONS SEWER EVERSTREAM GLC HOLDING CO COMMUNICATIONS FIDELITY COMMUNICATIONS SERVICES III INC COMMUNICATIONS CITY OF FAIRVIEW HEIGHTS
ILLINOIS AMERICAN WATER-EAST ST LOUIS SEWER WATER MCI/ VERIZON COMMUNICATIONS ST CLAIR COUNTY HIGHWAY DEPT **ELECTRIC & SEWER** ST CLAIR TOWNSHIP SEWER VILLAGE OF SWANSEA SFWFR

#### LOCATION 12

#### IL ROUTE 159 & HUNTWOOD ROAD

AMEREN ILLINOIS
AT&T ILLINOIS
COMMUNICATIONS
CHARTER SPECTRUM
CLEARWAVE COMMUNICATIONS
EVERSTREAM GLC HOLDING CO
FIDELITY COMMUNICATION SERVICES ILL INC
ILLINOIS AMERICAN WATER-EAST ST LOUIS
MCI / VERIZON
VILLAGE OF SWANSEA

GAS & ELECTRIC
COMMUNICATIONS
COMMUNICATIONS
COMMUNICATIONS
WATER
COMMUNICATIONS
SEWER

#### LOCATION 14

#### IL ROUTE 159 & FULLERTON ROAD

AMEREN ILLINOIS
AT&T ILLINOIS
COMMUNICATIONS
CHARTER SPECTRUM
CLEARWAVE COMMUNICATIONS
EVERSTREAM GLC HOLDING CO
ILLINOIS AMERICAN WATER-EAST ST LOUIS
WATER
MCI / VERIZON
VILLAGE OF SWANSEA

GAS & ELECTRIC
COMMUNICATIONS
COMMUNICATIONS
WATER
COMMUNICATIONS
SEWER

#### LOCATION 16

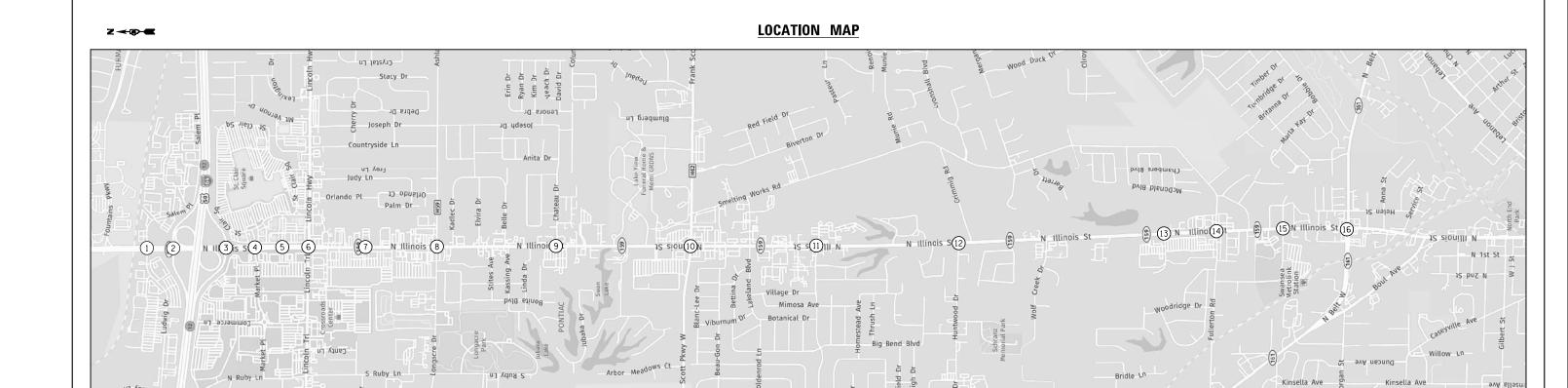
#### IL ROUTE 159 & IL ROUTE 161 (N BELT WEST)

AMEREN ILLINOIS
AMEREN ILLINOIS
CHARTER SPECTRUM
CLEARWAVE COMMUNICATIONS
EVERSTREAM GLC HOLDING CO
FIDELITY COMMUNICATION SERVICES ILL INC
ILLINOIS AMERICAN WATER-EAST ST LOUIS
WATER
MCI / VERIZON
VILLAGE OF SWANSEA

GAS & ELECTRIC
COMMUNICATIONS
CABLE TV
CABLE TV
CABLE TV
CABLE TV
COMMUNICATIONS
COMMUNICATIONS
WATER
COMMUNICATIONS
SEWER

SCALE: NTS

GENERAL NOTES, INDEX OF SHEET HIGHWAY STANDARDS			F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
			600	(130,130-1,130-2) TS-3, 82-5T	ST. CLAIR	74	3		
	TRAFFIC S	GNALS	LEGEND				CONTRACT	NO. 70	5R78
SHEET	OF	SHEETS	STA	TO STA		TILLINOIS FED	UD DDOLECT CMA	O LICID 4451	N. 72401



### **SUMMARY OF LOCATIONS**

NO.	SHEET	INTERSECTION/INTERCONNECT
1	11-14	IL ROUTE 159 AND LUDWIG DRIVE/SALEM PLACE
2	15-17	IL ROUTE 159 AND I-64 N RAMP
3	18-22	IL ROUTE 159 AND I-64 S RAMP
4	23-25	IL ROUTE 159 AND MARKET PLACE/ST CLAIR SOUARE
5	26-28	IL ROUTE 159 AND FAIRVIEW HEIGHTS CENTRE
6	29-33	IL ROUTE 159 AND LINCOLN HIGHWAY
7	34-38	IL ROUTE 159 AND LINCOLN PLACE SC
8	39-43	IL ROUTE 159 AND LONGACRE DRIVE/ASHLAND AVENUE
9	44-46	IL ROUTE 159 AND CHATEAU DRIVE
10	47-48	IL ROUTE 159 AND FRANK SCOTT PARKWAY
11	49-51	IL ROUTE 159 AND GREEN HAVEN DRIVE
12	52-54	IL ROUTE 159 AND HUNTWOOD ROAD
13	55-57	IL ROUTE 159 AND ROSEWOOD VILLAGE DRIVE
14	58-60	IL ROUTE 159 AND FULLERTON ROAD
15	61-63	IL ROUTE 159 AND METRO WAY
16	64-64	IL ROUTE 159 AND IL ROUTE 161 (N BELT WEST)

iter	is
	-

N Ruby Ln

USER NAME = bfunk	DESIGNED - BF	REVISED -
	DRAWN - BF	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED - AD	REVISED -
PLOT DATE = 2/27/2024	DATE - 2/26/24	REVISED -

SCALE:

					F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	LUCA	TION M	IAP		600	(130, 130-1, 130-2) TS-3, 82-5TS	ST. CLAIR	74	4
							CONTRACT	NO. 76	R78
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		

CaseAville page

					CONSTRUCT	ION CODE	
			80% FED 20% STATE	FAP 600	FAP 600	FAI 64	FAI 64
				TRAFFIC SIGNALS	TRAFFIC SIGNALS	ROADWAY	ROADWAY
CODE	ITEM	UNIT	TOTAL	0021	0021	0021	0021
NO.	T TEM	ONT	TOTAL	URBAN	URBAN	URBAN	URBAN
				CMAQ	HSIP	CMAQ	HSIP
66900200	NON-SPECIAL WASTE DISPOSAL	CUYD	74		44		30
66900210	HAZARDOUS WASTE DISPOSAL	CUYD	102		61		41
66900530	SOIL DISPOSAL ANALYSIS	EACH	25		15		10
66001001	DECULATED SUBSTANCES DDS CONSTRUCTION DIAN	I CIM	1		0.6		0.4
66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1		0.6		0.4
66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1		0.6		0.4
66901006	REGULATED SUBSTANCES MONITORING	CAL DAYS	61		37		24
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12		10		2
67100100	MOBILIZATION	L SUM	1	0.1	0.6		0.3
0,100100				¥			
70100305	TRAFFIC CONTROL AND PROTECTION STANDARD 701401	FACIL	1			0 1	0.0
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	1			0.1	0.9
70100815	TRAFFIC CONTROL AND PROTECTION, STANDARD 701446	L SUM	1			0.1	0.9
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	L SUM	1			0.1	0.9
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.1	0.9		
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	0.1	0.9		
. 5152532	70102	2 3 3 11		7.7	7.0		
70102625	TRAFFIC CONTROL AND PROTECTION STANDARD 701701	I CLIM	1	0 1	0.0		
/0102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.1	0.9		

MODEL: \$MODELNAM FILE NAME: \$FILELS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

			80% FED		CONSTRUCT	ION CODE	
			20% STATE	FAP 600	FAP 600	FAI 64	FAI 64
				TRAFFIC SIGNALS	TRAFFIC SIGNALS	ROADWAY	ROADWAY
CODE	ITEM	UNIT	TOTAL	0021	0021	0021	0021
NO.	1 ( )	0,111	IOIAL	URBAN	URBAN	URBAN	URBAN
				CMAQ	HSIP	CMAQ	HSIP
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.1	0.9		
70102040	TRAITIC CONTROL AND PROTECTION, STANDARD 701001	L 30W	1	0.1	0.9		
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1		0.5		0.5
70200100	THE WORK ZONE ETONITHO	2 3011	-		013		013
72000100	SIGN PANEL - TYPE 1	SQ FT	210		210		
72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	340		340		
80300100	LOCATING UNDERGROUND CABLE	FOOT	80		80		
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	299		299		
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	714		714		
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	1097		1097		
	LINDERGROUND CONDUIT COLLABLE NONMETALLIC CONDUIT		2525	0.505			
81028740	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/2" DIA.	FOOT	9597	2527		7070	
81400100	HANDHOLE	EACH	3		3		
31400100		LACIT			, , , , , , , , , , , , , , , , , , ,		
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	16		16		
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	14	14			
85700300	FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1	1			
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	8		8		

REV. - MS

	DELTA ENGINEERING GROUP, LLC	USER N
	111 W JACKSON BLVD. SUITE 910	
	CHICAGO, IL 60604 T 312.377.7700, F 312.427 6145	PLOT S
	1 312.377.7700,1 312.427 0143	PLOT D

USER NAME = \$USER\$	DESIGNED -	MA	REVISED -
	DRAWN -	NS	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED -	MA	REVISED -
PLOT DATE = \$DATE\$	DATE -	03/01/2024	REVISED -

			80% FED		CONSTRUCT	ION CODE	
			20% STATE	FAP 600	FAP 600	FAI 64	FAI 64
CODE NO.	ITEM	UNIT	TOTAL	TRAFFIC SIGNALS 0021 URBAN CMAQ	TRAFFIC SIGNALS 0021 URBAN HSIP	ROADWAY 0021 URBAN CMAQ	ROADWAY 0021 URBAN HSIP
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	4693		4693		
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	12631		12631		
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	29387		29387		
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	13899		13899		
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO.6 1C	FOOT	1981		1981		
87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1		1		
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1		1		
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1		1		
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1		1		
87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1		1		
87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	6		6		
87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	2		2		
87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	10		10		
87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	2		2		
		1	1				1

E: \$FILELS	
FILE NAME: SFIL	

	DELTA ENGINEERING GROUP, ILC	USER NAME = \$USER\$	DESIGNED -	MA	REVISED -
À	DEL L'A ENGINEERING GROUP, LE COSSILTRIGUESPES, COSSITEITON MASSIGNES, SZEVEVORS 111 W JACKSON BLVD, SUITE 910 CHICAGO, IL 60604 T 312,377,7700, F 312,427 6145		DRAWN -	NS	REVISED -
		PLOT SCALE = \$SCALE\$	CHECKED -	MA	REVISED -
		PLOT DATE = \$DATE\$	DATE -	03/01/2024	REVISED -

STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

	F.A.P. RTE	SEC.	TION		COUNTY	TOTAL SHEETS	SHEET NO.					
SUMMARY OF QUANTITY						600	(130,130-1,130-	2) TS-3, 8:	2-5TS	ST. CLAIR	75	7
										CONTRACT	NO. 76	5R78
SCALE: NTS	SHEET	OF	SHEETS	STA.	TO STA.			ILLINOIS I	FED. AII	D PROJECT CMAG	-HSIP-4451	V (249)

			000/ 555	CONSTRUCTION CODE				
			80% FED 20% STATE	FAP 600	FAP 600	FAI 64	FAI 64	
				TRAFFIC SIGNALS		ROADWAY	ROADWAY	
CODE NO.	ITEM	UNIT	TOTAL	0021	0021	0021	0021	
NO.				URBAN	URBAN	URBAN	URBAN	
				CMAQ	HSIP	CMAQ	HSIP	
07700200	CTEST MACT ADM ACCEMBLY AND DOLE TO ET	FACIL						
87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1		1			
8/700300	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	4		4			
87700310	STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	2		2			
87700330	STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.	EACH	3		3			
8//00340	STEEL MAST ARM ASSEMBLY AND POLE, 58 FT.	EACH	1		1			
07700400								
8//00400	STEEL MAST ARM ASSEMBLY AND POLE, 60 FT.	EACH	2		2			
07700404								
87700404	STEEL MAST ARM ASSEMBLY AND POLE, 62 FT.	EACH	1		1			
07700410	CTEST MACT ADM ACCEMBLY AND DOLE CO. ET	FACU.	2		_			
87700418	STEEL MAST ARM ASSEMBLY AND POLE, 68 FT.	EACH	2		2			
07700420	STEEL MAST ARM ASSEMBLY AND POLE, 70 FT.	EACH	1					
67700420	STEEL WAST ANN ASSEMBLE AND FOLE, 70 TT.	LACIT	1		1			
07700420	STEEL MAST ARM ASSEMBLY AND POLE, 74 FT.	EACH	1		1			
67700426	STEEL WAST ANN ASSEMBLE AND FOLE, 74 FT.	EACH	1		1			
97900400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	48		48			
87800400	CONCRETE TOUNDATION, TIFE E 30-INCH DIAMETER	1001	40		40			
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	393		393			
37000413	CONCRETE TOURDATION, THE E 30-INCH DIAMETER	1001	293		333			
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	227		227			
3,000420	CONCRETE TOURDATION, THE E 42-INCH DIAMETER	1.001	221		221			
87900100	DRILL EXISTING FOUNDATION	EACH	2	1		1		
37,500100	EXTERNO FOUNDATION	LACIT		1				

SCALE: NTS

SFILELS	
FILE NAME: \$FI	DELTA ENGINEERING GROUP, LLC COMMUNICATION OF MACKESON BELVO, SUITE 110 ACKSON SIDE VO, SUITE 110 CHICAGO, IL 66604 T 312.377.7700, F 312.427 6145

USER NAME = \$USER\$	DESIGNED	-	MA	REVISED -
	DRAWN	-	NS	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED	-	MA	REVISED -
PLOT DATE = \$DATE\$	DATE	-	03/01/2024	REVISED -

			A N I T I T \ (		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SUMMARY OF QUANTITY					600	(130,130-1,130-2) TS-3, 82-	ST. CLAIR	75	8
							CONTRACT	NO. 70	5R78
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FE	. AID PROJECT CMA	Q-HSIP-445I	V (249)

			80% FED				
			20% STATE	FAP 600	FAP 600	FAI 64	FAI 64
				TRAFFIC SIGNALS	TRAFFIC SIGNALS	ROADWAY	ROADWAY
CODE	ITEM	UNIT	TOTAL	0021	0021	0021	0021
NO.	, . <del></del>			URBAN	URBAN	URBAN	URBAN
				CMAQ	HSIP	CMAQ	HSIP
0700000		5400			2.5		
87900200	DRILL EXISTING HANDHOLE	EACH	86		86		
2022222	CLONAL LIFAD. LED. 1 FACE. 2 CECTION MACT ARM MOUNTED	FACIL	0.7		0.7		
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	97		97		
00030050	CLONAL LIGAD, LED. 1 FACE 2 CECTION PRACKET MOUNTED	FACIL	4.5		4.5		
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	45		45		
88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	35		35		
			33				
88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	34		34		
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2		2		
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2		2		
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	10		10		
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8		8		
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	127		127		
89501250	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	14		14		_
00503310	MODIEV EVICTING CONTROLLED CARINET	FACIL	1	1			
03205510	MODIFY EXISTING CONTROLLER CABINET	EACH	1	1			
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7000		7000		
	· · · · · · · · · · · · · · · · · · ·	. 50.					
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	16		16		
		I .					

REV. - MS

	DELTA ENGINEERING GROUP, LLC	USER N
Δ	111 W JACKSON BLVD. SUITE 910	
E G	CHICAGO, IL 60604 T 312.377.7700, F 312.427 6145	PLOT S
	1 512.577.7700,1 512.427 0143	PLOT D

,	USER NAME = \$USER\$	DESIGNED -	MA	REVISED -
í		DRAWN -	NS	REVISED -
	PLOT SCALE = \$SCALE\$	CHECKED -	MA	REVISED -
	PLOT DATE = \$DATE\$	DATE -	03/01/2024	REVISED -

			80% FED				
			20% STATE	FAP 600	FAP 600	FAI 64	FAI 64
				TRAFFIC SIGNALS	TRAFFIC SIGNALS	ROADWAY	ROADWAY
CODE NO.	ITEM	UNIT	TOTAL	0021	0021	0021	0021
NO.	1   LIM	ONII	IOIAL	URBAN	URBAN	URBAN	URBAN
				CMAQ	HSIP	CMAQ	HSIP
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	47		47		
X0323917	CABINET, MODEL 334	EACH	1				1
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	9423		9423		
X8891007	VIDEO VEHICLE DETECTION SYSTEM COMPLETE	EACH	3		3		
	51959 1 1/4015		1	0.5		0.5	
X8710010	FIBER LAYOUT	L SUM	1	0.5		0 . 5	
X1400500	COMMUNICATIONS VAULT, 24"X36"	EACH	7			7	
X1400300	COMMONTEATIONS VACETY 24 ASS	EACH	,			·	
X0325485	TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	1				1
X8710036	FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	525	525			
X8710039	FIBER OPTIC CABLE 144 FIBERS, SINGLE MODE	FOOT	14627	7157		7470	
X8710101	ETHERNET MANAGE SWITCH	EACH	1	1			
X8710103	ETHERNET SWITCH	EACH	7	7			
X8710304	FIBER OPTIC CABLE SPLICE - LATERAL	EACH	7	7			
V0710210	FIBER OPTIC UTILITY MARKER	EACH	25			25	
V0\1021g	I IBEN OF ITC UTILITY MANNEN	EACH	25			۷۵	
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	30		30		
	**************************************				30		
	I.	1	1				

REV. - MS

•	DELTA ENGINEERING GROUP, LLC	USER N
Δ	111 W JACKSON BLVD, SUITE 910	
oΕg	CHICAGO, IL 60604 T 312.377.7700, F 312.427 6145	PLOT S
	1 512.57.7700,1 512.427 0143	PLOT D

,	USER NAME = \$USER\$	DESIGNED -	MA	REVISED -	
Ě		DRAWN -	NS	REVISED -	
	PLOT SCALE = \$SCALE\$	CHECKED -	MA	REVISED -	
	PLOT DATE = \$DATE\$	DATE -	03/01/2024	REVISED -	

			80% FED		CONSTRUCT	ION CODE	
			20% STATE	FAP 600	FAP 600	FAI 64	FAI 64
				TRAFFIC SIGNALS	TRAFFIC SIGNALS	ROADWAY	ROADWAY
CODE NO.	ITEM	UNIT	TOTAL	0021	0021	0021	0021
NO.	1 1 5141	ONTI	IOIAL	URBAN	URBAN	URBAN	URBAN
				CMAQ	HSIP	CMAQ	HSIP
X8760201	PEDESTRIAN PUSH-BUTTON POST	EACH	21		21		
X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	104		104		
XP000212	CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	2	2			

REV. - MS

	DELTA ENGINEERING GROUP, LLC	USER NAME = \$USER\$	DESIGNED	-
	111 W JACKSON BLVD, SUITE 910 CHICAGO, IL 60604 T 312.377.7700, F 312.427 6145		DRAWN	-
		PLOT SCALE = \$SCALE\$	CHECKED	-
	1 312.377.7700,1 312.427 0143	PLOT DATE = \$DATE\$	DATE	-

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REVISED

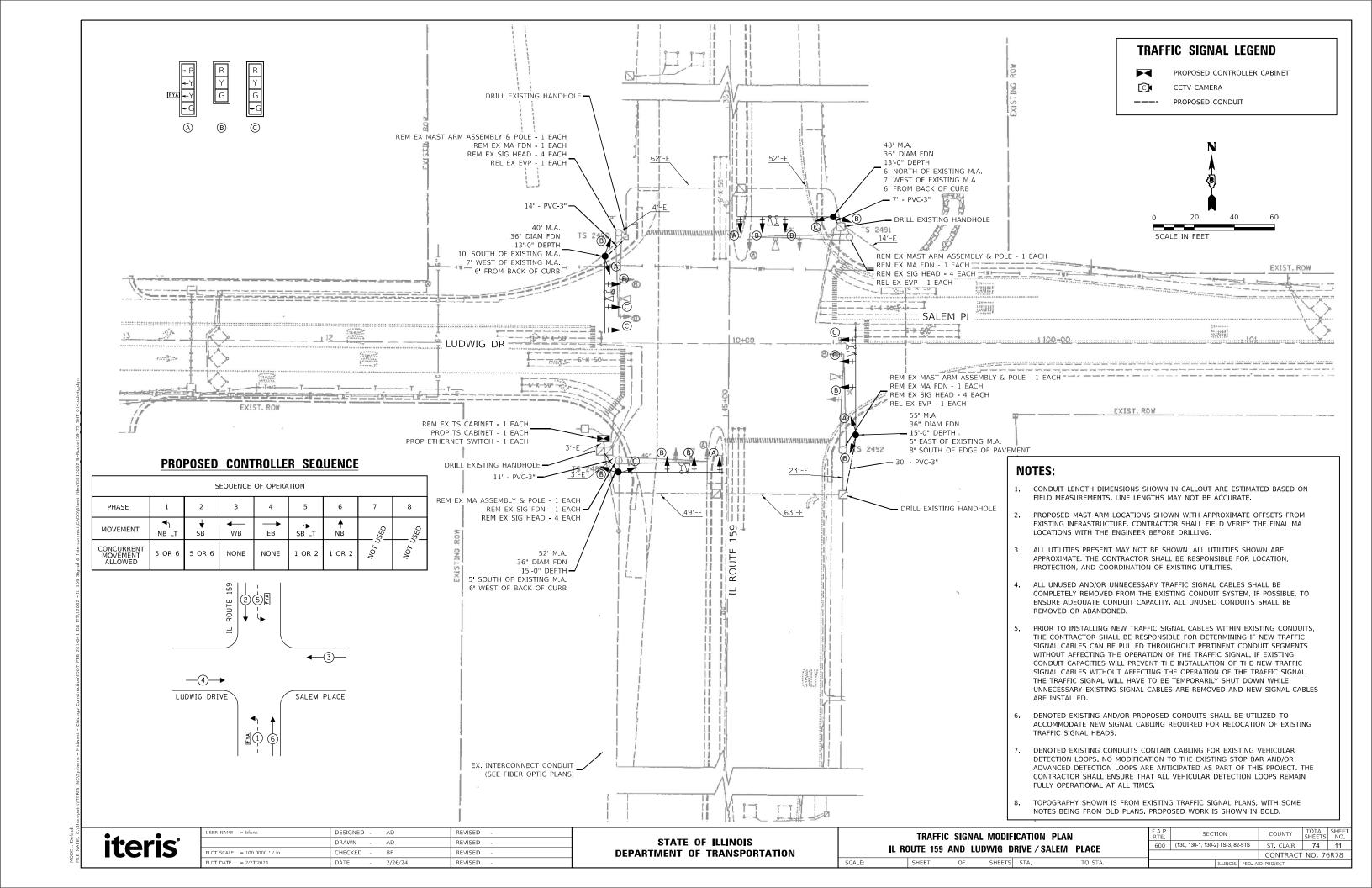
REVISED -

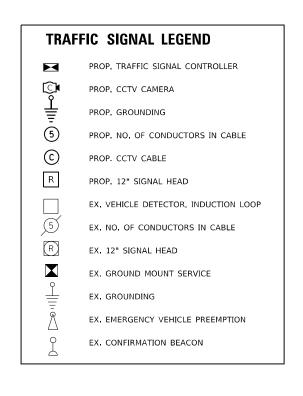
REVISED -

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03/01/2024

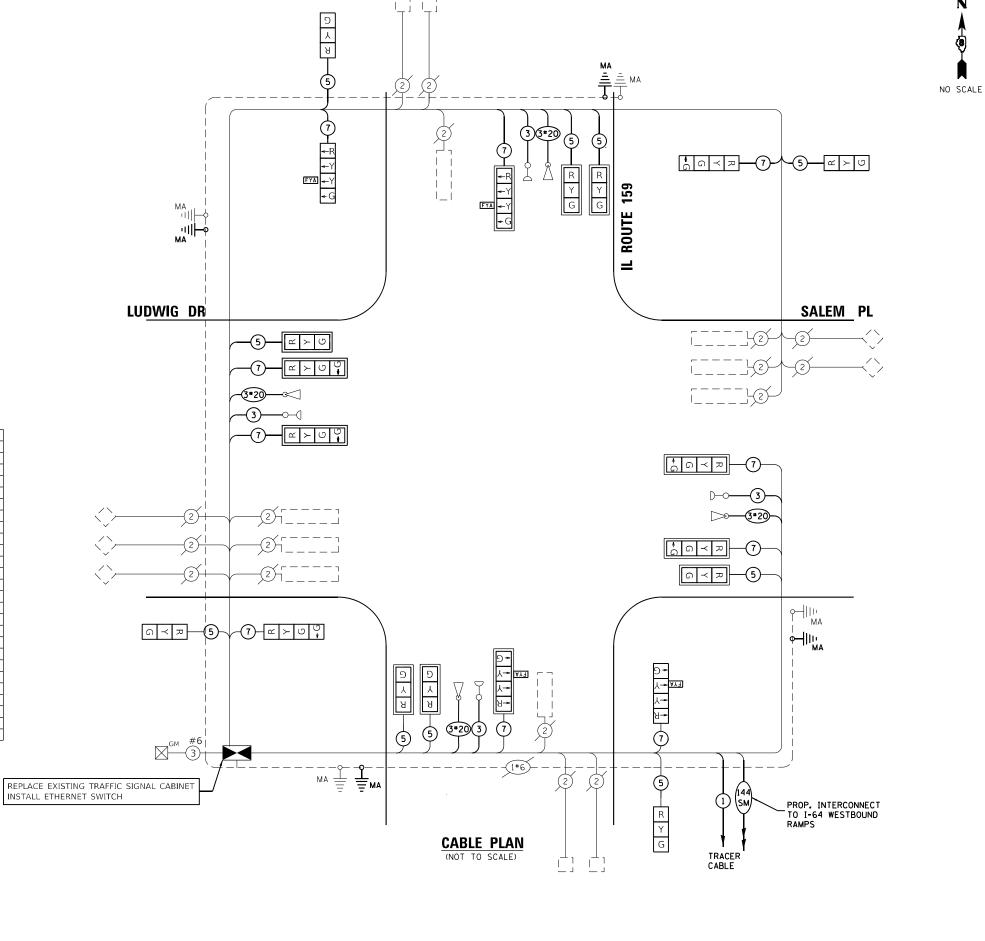




#### **SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNIT	QTY.
SIGN PANEL - TYPE 1	SQ FT	30
RELOCATE SIGN PANEL - TYPE 1	SQ FT	32
LOCATING UNDERGROUND CABLE	FOOT	10
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	62
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1182
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2635
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3004
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	105
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 58 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	56
DRILL EXISTING HANDHOLE	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	6
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	12
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	500
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1182
ETHERNET SWITCH	EACH	1

\*NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY ENGINEER



SCALE:



USER NAME = blunk	DESIGNED - AD	REVISED -
	DRAWN - AD	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED - BF	REVISED -
PLOT DATE = 2/27/2024	DATE - 2/26/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	TRA	AFFIC	SIGNAL CA	BLE PLAN		
IL RO	OUTE 159	AND	LUDWIG D	RIVE / SALEM	PLACE	
	SHEET	OF	SHEETS	STA.	TO STA.	

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

600 (130, 130-1, 130-2)TS-3, 82-5TS ST. CLAIR 74 12

CONTRACT NO. 76-R78



Page 1 of 1

Date 5/29/84

COUNTY St. Clair	DRILLING	3 ME	THÓD		Но	llow Stem Auger HAMME	TYPE		140# A	utoma	tic
STRUCT. NO		D E P T	B L O W	U C S	M 0 1 8	Surface Water Elev. Stream Bed Elev.	ft ft	DEPT	B L O W	U C S	M 0 1 s
BORING NO.         1           Station         45+81           Offset         57.00ft R		Ĥ		Qu	Ť	Groundwater Elev.: First Encounter Upon Completion	_ ft ft	Н	S	Qu	T
Ground Surface Elev. 589	1.3 ft	(ft)	(/6")	(tsf)	(%)	After Hrs	ft	(ft)	(/6")	(tsf)	(%
Brown and Gray SILT		_				Brown and Gray SILT (continued	ľ	_			
srown and Gray SIL1		-							8	1.5	28
										B/	
		-						_			
		_									
		_	33	5.4 S	19				6	1.7 B /	27
	584.8			<u> </u>				-25		۳	
rown and Gray Silty CLAY		5						-20			
			19	3.0	20		562.9		8	2.0	28
		-		S			302.9	٠ –		В	
				2		END OF BORING					
								_			
		-	19	2.6	22					l	
		_		S				-30			
		10						-30			
		_	10	0.5	-						
		_	18	2.5 S	21			_			
								_			
		-	24	4.8	21			-			
				S	6			T			
		-15			ĺ			-35			
		7						-	İ		
			18	1.6	23						
	572.3			S				-		19	
rown and Gray SILT		-									
The State of the S			***	4 4	0.4						
			7	1.4 S /	24			_			
		_						_			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



# **SOIL BORING LOG**

Page 1 of 1

Date 5/29/84

COUNTY St. Clair DRILLING  CRUCT. NO	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. Stream Bed Elev. Groundwater Elev.:	ft ft	D E P	B	utoma U C S	M O
DRING NO. 2  Itation 44+98  Offset 56.00ft R  Fround Surface Elev. 488.5 ft	E P T H	L O W S	C S Qu	0 1 \$	Stream Bed Elev.  Groundwater Elev.:	ft	E	L O	C	0
own and Gray Silty CLAY				(%)	First Encounter Upon Completion After Hrs.	ft	H (ft)	S	Qu (tsf)	S T {%
		4.			Brown and Gray Clayey SILT (continued)			12	1.5 B	27
	_	28	4.3 S	18				7	1.2 B	28
	5	22	3.1 S	15	END OF BORING	462.5	25	8	1.5 B	2
		31	3.5	20	END OF BORING			1000 1000 1000 1000 1000 1000 1000 100		
			\_S_/				-30			
		35	3.7 S	21						17
own and Gray Clayey SILT	-15	24	3.0 S	22			-35		A CALLED	
	-13	12	1.2	21						
		7	0.7	28						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BB\$, from 137 (Rev. 8-99)



USER NAME = bfunk	DESIGNED -		BF	REVISED -
	DRAWN -	-	BF	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	-	AD	REVISED -
PLOT DATE = 12/21/2023	DATE -		11/10/23	REVISED -



Page 1 of 1

Date \_\_5/29/84

COUNTY St. Clair DRILLIN	G ME	THOD	(1	Но	llow Stem Auger	HAMMER T	YPE		40# A	utoma	itic
STRUCT. NO	D E P T	B L O	U C S	M 0 1 S	Surface Water Elev Stream Bed Elev		ft ft	D E P	B L O W	U C S	M 0 1 8
BORING NO. 3 Station 44+92	Н	S	Qu	T	Groundwater Elev.: First Encounter		e	Ĥ	S	Qu	T
Offset 55.00ft L					Upon Completion		ft				
Ground Surface Elev. 588.3 ft	(ft)	(/6")	(tsf)	(%)	After Hrs.		ft	(ft)	(/6")	(tsf)	(%)
					Brown and Gray Clayey	SILT					
Brown and Gray Clayey SILT	77				(continued)				10	2.0	26
	-								10	2.0 S	26
		]								3	
	_	25	3.1	16					8	1.6	27
	-		S	1.0			-			В /	
	5							-25			
								11			
	-	25	2.7	17			562.0	-	6	1.3	27
	-		S							B	
	7				END OF BORING		1	_			
	-		3					-			
	_						-	-			
	-	32	3.2	16				_			
			S				-				
	-10							-30			
							85	- 22			
	_	0.5	0.0	10							
		35	3.9	19							
			S					-30			
		23	3.7	24							
	-	20	\ S /	24							
	U		<u> </u>					_			
	15						_	-35			
	-							-			
		11	2.6	23				_			
	_		S					-			
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	8 9							-			
	-						-	_			
	_	8	0.8	27	11						
		-		2.	ll .						
	_	-	S_/				100				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



# **SOIL BORING LOG**

Page 1 of 1

ate 5/29/84

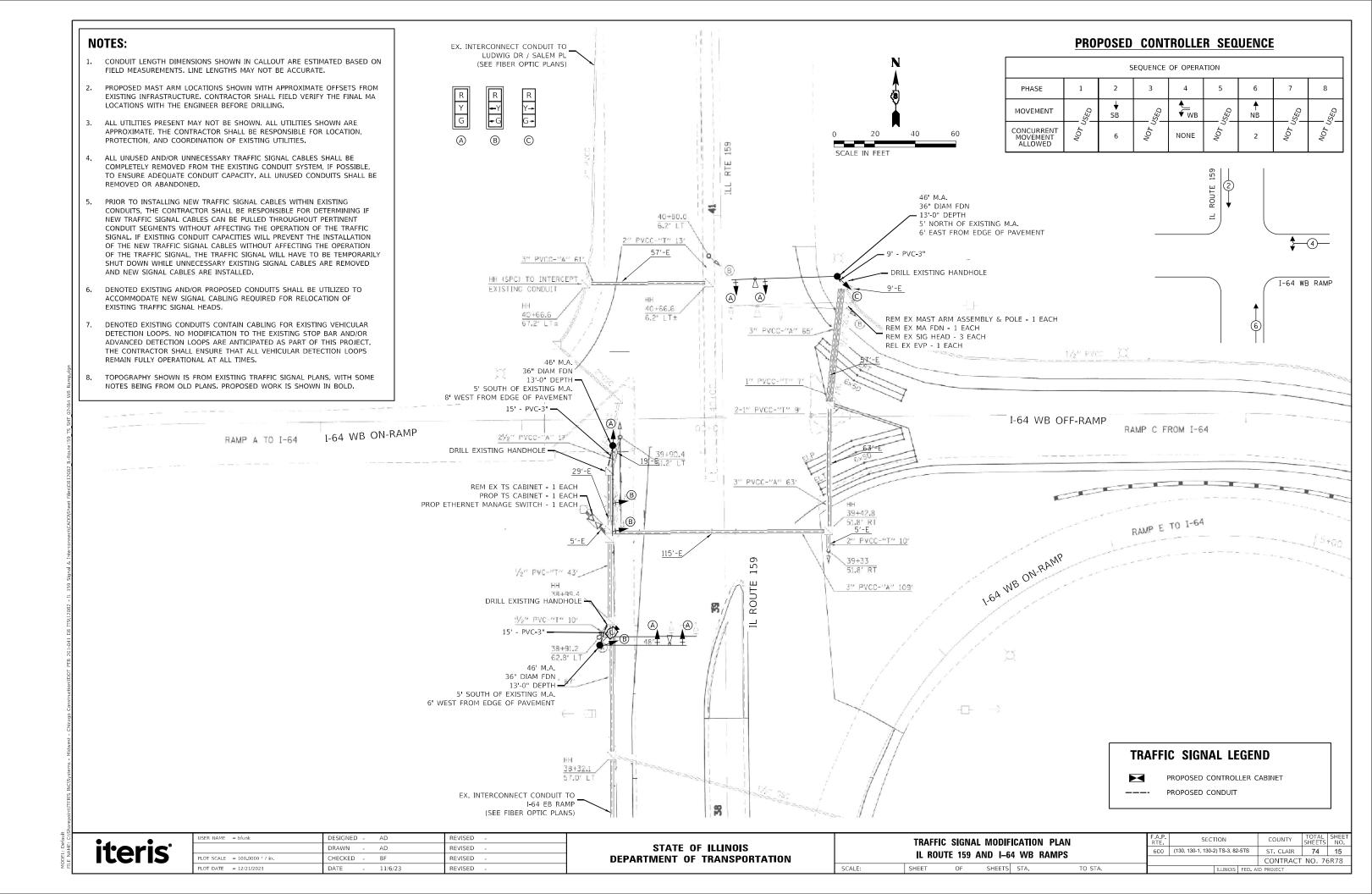
Illinois Department of Transporta	tion								Date	5/2	9/84
ROUTE FAP 600 DESCRIP	ТЮІ	N	Traffic	Signa	als at II	L 159 and Ludwig Dr / Salem Pl	LOGGE	:DB	Υ	J. Kin	g
SECTION130TS	LO	CAT	ION _	SE 1/4	4, SEC	. 21, TWP. 2N, RNG. 8W, 3 PM					
COUNTY St. Clair DRIL	LING	3 ME	THOD		Но	llow Stern Auger HAMMER	TYPE		140# A	utoma	tic
STRUCT. NO.   Station	-	D E P T H	B L O W S	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. Stream Bed Elev.  Groundwater Elev.: First Encounter 577.5 Upon Completion After Hrs.	_ ft _ ft _ _ ft _ ft	D E P T H	B L O W S	U C S Qu (tsf)	M O I S T (%)
Brown and Gray SILT		_				Brown and Gray SILT (continued)		-	7	1.4	25
		_						_		B /	23
			7	1.3	23			_	13	1.5	29
		-5		S						B /	
		-	4	1.3	20		562.9	_	8	1.2	28
			2	0.7 S	23	END OF BORING		-30		B /	
		-	12	3.0	24						
		<u>¥</u>		S			,				
		-	23	2.4	23			B—			
			18	4.2 S	24		ja j	35			
		3-	8	3.3 S	25			_			

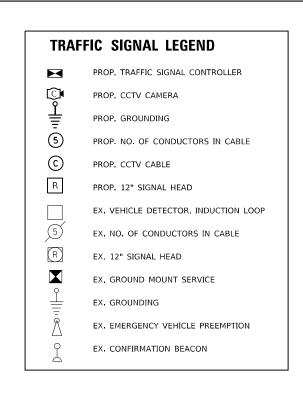
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

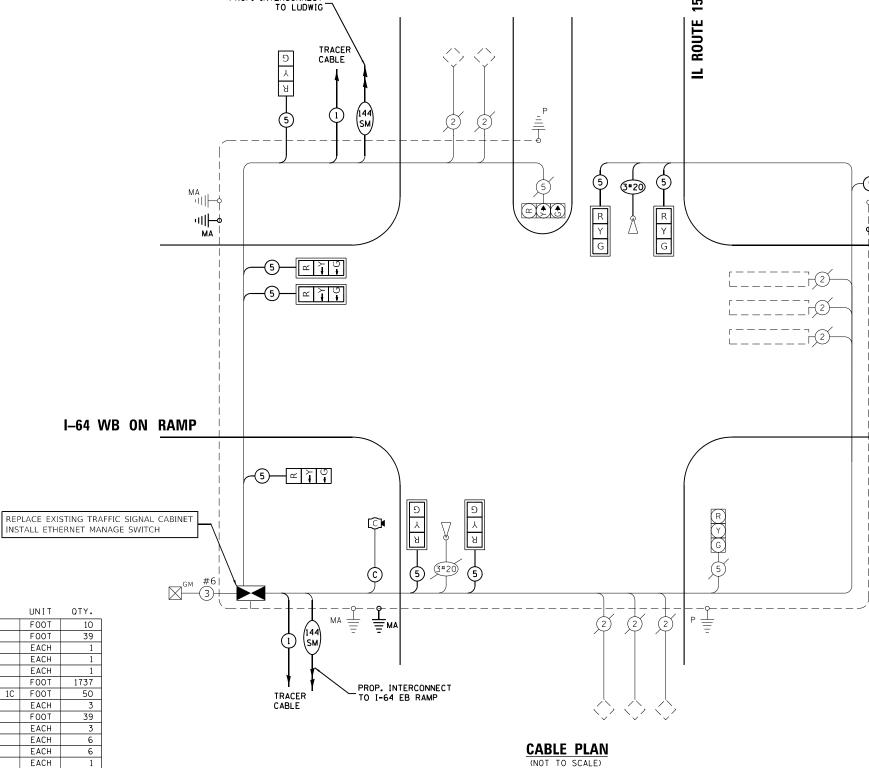
BBS, from 137 (Rev. 8-99)



USER NAME = bfunk	DESIGNED	-	BF	REVISED	-
	DRAWN	-	BF	REVISED	-
PLOT SCALE = 100.0000 / in.	CHECKED	-	AD	REVISED	-
PLOT DATE = 12/21/2023	DATE	-	11/10/23	REVISED	-







PROP. INTERCONNECT

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNIT	QTY.
	LOCATING UNDERGROUND CABLE	FOOT	10
	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	39
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1737
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	50
	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	3
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	39
	DRILL EXISTING HANDHOLE	EACH	3
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6
	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
*	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	500
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	490
	ETHERNET MANAGE SWITCH	EACH	1
	CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1

\* NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY ENGINEER

iteris

USER NAME = bfunk	DESIGNED	-	AD	REVISED -
	DRAWN	-	AD	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED	-	BF	REVISED -
PLOT DATE = 12/22/2023	DATE	-	12/22/23	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

		IGNAL CA AND I–6				
SHEET	OF	SHEETS	TO STA.			

SCALE:

F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.
600	(130, 130-1, 130-2) TS-3, 82	-5TS	ST. CLAIR	74	16
			CONTRACT	NO. 76	5R78
	ILLINOIS	FED. A	D PROJECT		

NO SCALE

I-64 WB OFF RAMP

Page 1 of 1

Date 4/26/02

SECTION 82-5K-2	LOC	CATI	ON _	NE 1/4	, SEC	5. 28, TWP. 2N, RNG. 8V	V, 3 PM
COUNTY St. Clair DRIL	LING	ME	THOD			Hand Auger	HAMMER TYPE
STRUCT. NOStation	-	D E P	L O	U C S	M 0 1	Surface Water Elev Stream Bed Elev	ft ft
BORING NO.         RF-B1           Station         4+16           Offset         0.00ft BL	-		S	Qu (tef)	S T (%)	Groundwater Elev.: First Encounter Upon Completion	ft
Ground Surface Elev. 571.7  Brown and Gray SILT	_ π		(10)	2.1	(70)	After Hrs.	π
STOWN AND GRAY SILT	-	_		2.5			
				2.3			
	568.2			0.5			
Gray Silty Clay LOAM		-5		0.5			
		7		0.5			
				0.7			
5	563.7	72.00		1.2			
iray Silty CLAY	_	_		0.8			
5	561.7	-10		0.0			
nd of Hand Auger	-						
u values obtained from Pocket enetrometer	-						
	-						
	-						
	4	-15					
		-					
	-	_					
		-20					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



## **SOIL BORING LOG**

Page <u>1</u> of <u>1</u>

Date 4/26/02

ROUTEFAI 64 DESC	RIPTIO	<b>V</b>		Ramp	F-IL	159 SB Ramp to I-64 EB	LOGGED BY	Larry Ford
<b>SECTION</b> 82-5K-2	LO	CAT	ION _	NE 1/4	4, SEC	. 28, TWP. 2N, RNG. 8W, 3 PM		
COUNTY St. Clair D	RILLING	3 ME	THOD			Hand Auger HAMM	ER TYPE	
STRUCT. NO.   Station		D E P T H	U W S	U C S Qu (tsf)		Surface Water Elev. Stream Bed Elev.  Groundwater Elev.: First Encounter Upon Completion	ft ole ft ft	
Ground Surface Elev. 567.0	ft	(ii)	(10)	1.7	24	After Hrs.	π	
Brown SILT A-4(8) See Soil Test Data Sheet		_		1.5	21			
340 3011 1001 2010 311001	564.0	_		1.5	23			
Gray SILT	551.0	2		0.7	28			
A-4(8) See Soil Test Data Sheet		-5		0.8	28			
				0.9	28			
		_		1.0	28			
	559.0	_		0.9	29			
End of Hand Auger		_						
Qu values obtained from Pocket Penetrometer		10						
		-15						

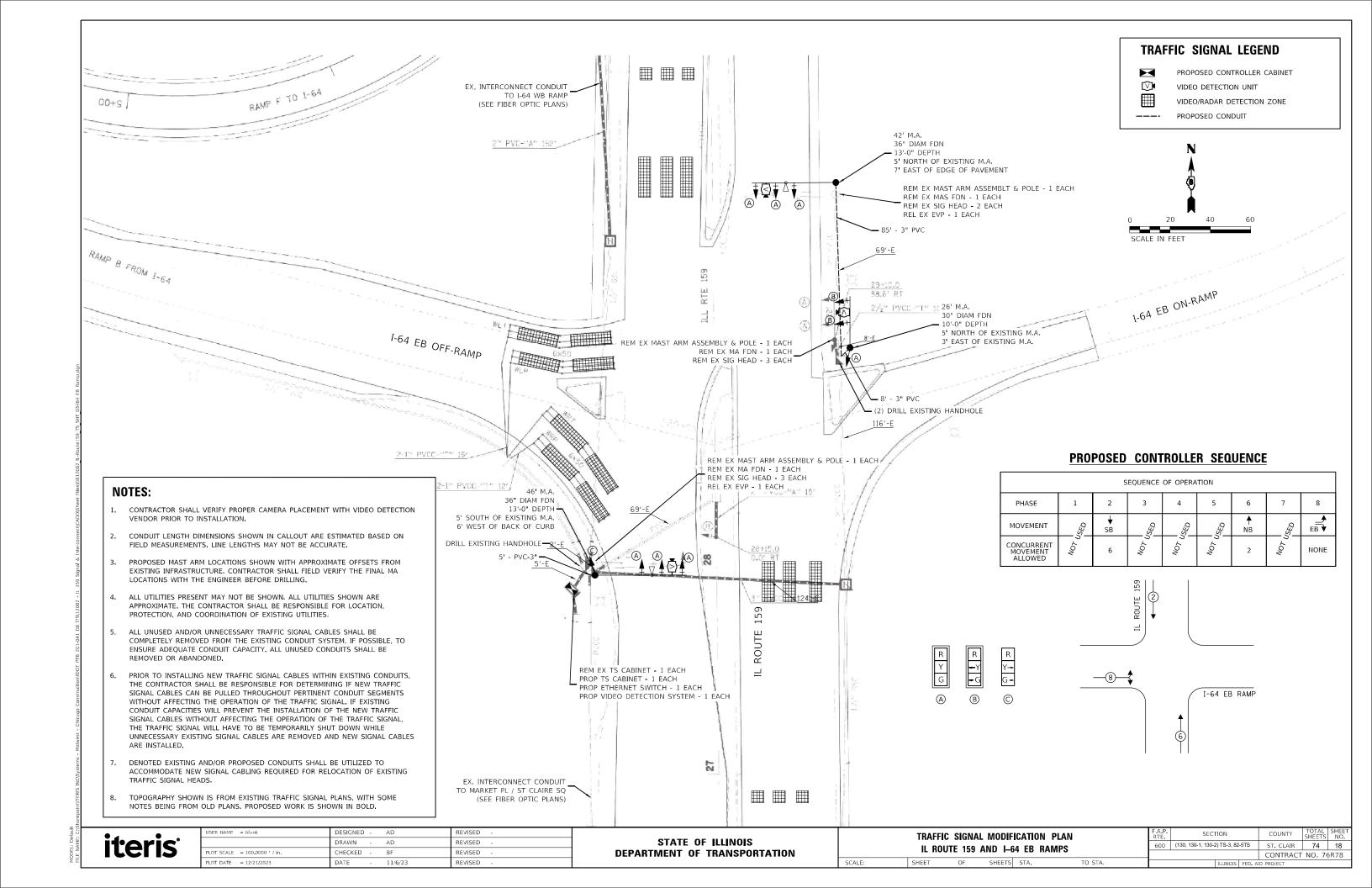
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

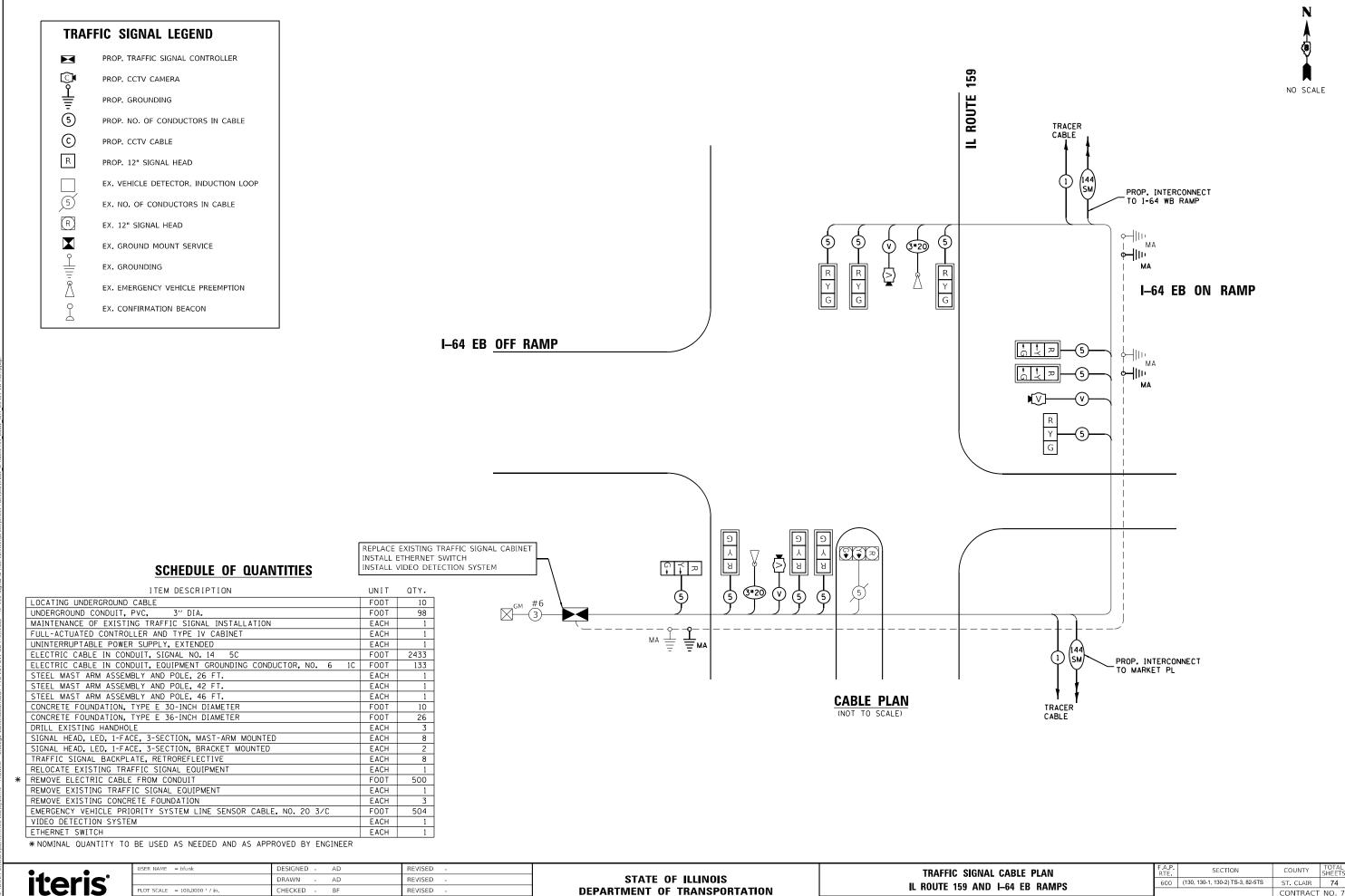
BB\$, from 137 (Rev. 8-99)



USER NAME = bfunk	DESIGNED	-	BF	REVISED	-
	DRAWN	-	BF	REVISED	-
PLOT SCALE = 100.0000 / in.	CHECKED	-	AD	REVISED	-
PLOT DATE = 12/21/2023	DATE	-	11/10/23	REVISED	-

CONTRACT NO. 76R78





**DEPARTMENT OF TRANSPORTATION** 

600 (130, 130-1, 130-2) TS-3, 82-5TS ST. CLAIR **74 19** 

CONTRACT NO. 76R78

IL ROUTE 159 AND I-64 EB RAMPS

SHEETS STA.

TO STA.

DRAWN

DATE

LOT DATE = 2/27/2024

HECKED

AD

2/26/24

REVISED

REVISED

REVISED

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Eight Materials Depth Increment = 152.5mm
NW 1/4, NW 1/4, SECTION 27, T 2 N, R 8 W, 3RD PM Bridge Foundation Boring Log Sh. 1 of 1 09/30/96 BRIDGE I 64 - IL 159 INTERCHANGE PROJECT FAI 64 ROUTE FAI 64 Bored By JOSEPH MONROE SEC. 82-5KI Checked By MARY LAMIE COUNTY St. Clair Strct. No. Surf Wat El. Grndwater El. Boring No. at Compl Sta 0+853 O/S 20m RT. Qu kPa Qu kPa N El. Ground Surface 179.04 0m BROWN SILTY CLAY 171.88 END OF BORING 99.88 \_171.67\_\_20 10\_187.28\_\_18 176.91\_\_\_ GRAY SILT 13\_\_93.64\_\_17 -3 6\_124.85\_25 175.38 BROWN SILTY CLAY LOAM 87.40\_\_26 A-7-6 (20) 174.62\_ GRAY SILT 65.55 27 -5 49.94 30 68.67 33 172.49 BROWN SILT A-4(0)
N 50 mm OD Sampler, Driven 305 mm
63.5Kg Hammer, 760 mm Fall (F.W.-Free Water B-Bulge S-Shear)

ILLINOIS DEPARTMENT District Eight Mate	eria	ls	Depth	Inc	rement = 152.5 T 2 N, R 8 W,	imm	Bor	dge F	oundat og	ion
PROJECT FAI 64			E 1 6	4 -	IL 159			Sh 09/	. 1 of 30/96	1
ROUTE FAI 64	_				HANGE	Bored By	y <u>JO</u>	SEPH I	MONROE	
SEC. 82-5KI	_	STA.			Ch	ecked By	MAI	RY LAI	MIE	
COUNTY St. Clair Strct. No. Boring No. 3 Sta 0+909 O/S 18m RT.	El.	N	Qu kPa	W %	Surf Wat El. Grndwater El. at Compl At Hrs		El.	N	Qu kPa	A A
Ground Surface 179.58	0m		1							
BROWN SILT					BROWN SILT 172.42 END OF BORING		<u>-7</u>	4 6:	93.64_	_30
		10					=			
	=	12 16	NC	_16						
176.68		10 15_1	18.61_	_18			<u>-9</u>			
DARK BROWN SILT W/ ORGANIC ODOR	<u>-3</u>	5 8 91	87.28_	17						
175.77GRAY SILTY CLAY LOAM	=	1 72	93.64	24			=			
A-6 (15)	_		93.64_				11			
174.40	= = == == ==	3	78.03_	_27						
GRAY SILT	_	3	52.43	27						
A-4(7)	_	2					$\equiv$			
	_	5	93.64_	_26			<u>13</u>			
172.87	_	2					_			
N 50 mm OD Sampler, Dr 63.5Kg Hammer, 760 mm	ive Fa	n 305 ll (F	mm .WFr	ee '	Water B-Bulge	S-Shear)	_			1

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -
	DRAWN - BF	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED - AD	REVISED -
PLOT DATE = 12/21/2023	DATE - 11/10/23	REVISED -

	SOIL E	BORING	LOGS		F.A.P. RTE	SECTION			COUNTY	TOTAL SHEETS	SHEE
II RO	IITE 150	AND L	/ FR	RAMPS	600	(130, 130-1, 130-	2) TS-3, 82	2-5TS	ST. CLAIR	74	20
IL ROUTE 159 AND I-64 EB RAMPS									CONTRACT	NO. 76	5R78
HEET	OF	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		

ILLINOIS DEPARTMENT District Eight Mate: NW 1/4, NW	ria.	ls D	epth	Inc	rement =	152.5	5mm , 3RD PM	Bort	ige Fo	oundat og	ion
PROJECT FAI 64	1	BRIDGE	I 64	-	IL 159		Date	e	Sh 09/3	1 of	1
ROUTE FAI 64			TMI	ERCI	HANGE		Bored B	y <u>JOS</u>	SEPH N	ONROE	
SEC. 82-5KI	_ :	STA.				Cl	necked B	y MAF	RY LAN	MIE_	
COUNTY St. Clair Strct. No. Boring No. 4 Sta 1+236.4 O/S 21.8m RT.	<b>31</b> .	N	Qu kPa	W %	Surf Wate Grndwate at C	r El.		El.	N	Qu kPa	W %
Ground Surface 180.02	Om					7 1 7 7				- 1	
BROWN AND GRAY SILT	_							<u>-7</u>			
		4									
	<u>-1</u>	6	7.28	10							
	_		7.20_					_			
	=	3						_			
	_	915	6.06_	_17				_			
	_	8						_			
	<u>-</u>    	9	NC	17							
	_							_			
	-3	8						_			
	_	15_23	4.10_	_16				<u>-9</u>			
	_	7									
	=	11 13_17	1 67	17							
	=							11			
	_	4									
			1.09_	_21							
	_	1						=			
	_	2 2 1	8.73	28				=			
	_										
	_	2 3						13			
173.62 END OF BORING	_	54	9.94_	_26				<u>13</u>			+
N 50 mm OD Sampler, Dri 63.5Kg Hammer, 760 mm	Ver Fal	305 1 (F.	mm WFr	ee V	Nater B-B	ulge	S-Shear)				1

District Eight Ma NE 1/4,	teria: NE 1/4	ls 1	Depth TION	Inc 28,	rement = 152. T 2 N, R 8 W	5mm , 3RD PM	Bor	ing L	oundat og	
PROJECT FAI 64			3 <u>I 64</u>	1 -	IL 159		e		. <b>1 of</b> 30/96	1
ROUTE FAI 64			71/1	ERC	HANGE	Bored B	у <u>ЈО</u>	SEPH I	MONROE	
SEC. 82-5KI		STA.	2			hecked B	y MAI	RY LAI	MIE	
COUNTY St. Clair Strct. No. Boring No. 5 Sta 1+206.2 O/S 15m LT.	E1.	N	Qu kPa	W %	Surf Wat El. Grndwater El at Compl		El.	N	Qu kPa	W %
Ground Surface 180.	92 0m		1			70.7	-t			
BROWN SILT	_						<u>-7</u>			
										6.
	_	9					_			
	<u>-1</u>	11 15 28	10.92	15			-9			
			-							
A-4(6)		4								
		5 6 15	6.06	20			_			
			_				_			
		5		_			- 9			
	_	7 12 12	4.85	19						
				_						
	-3	6	**				_			
		7 12 26	5.31_	17			_			
			_							
	-	10								
	=	16 32	7.74	16			-			
							11			
	-	7								
		9	9.70	16			_			
	<u>-5</u>		J. 70_							
		16					_			
		18	0 00	777			_			
		23_20	0.92_	/						
	_	7	-	-			_			
174 60		11	E 77	7.7			13			
174.52 END OF BORING		11_26	5.31_	-1/						
N 50 mm OD Sampler, 63.5Kg Hammer, 760				200						

iteris

USER NAME = bfunk	DESIGNED - BF	REVISED -
	DRAWN - BF	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED - AD	REVISED -
PLOT DATE = 12/21/2023	DATE - 11/10/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	F.A.P. RTE	SECT					
II ROI	ITE 150	AND I-6	/ FR	RAMPS	600	(130, 130-1, 130-2	()
IL HO	JIL 133	AND I-U	T LU	IIAWII 3			
SHEET	OF	SHEETS	STA.	TO STA.			II

 
 F.A.P. RTE.
 SECTION
 COUNTY COUNTY
 TOTAL SHEETS TOTAL ST. CLAIR
 SHEET VALUE

 600
 (130, 130-1, 130-2) TS-3, 82-5TS
 ST. CLAIR
 74
 21

 CONTRACT NO. 76 R78

 ILLINOIS
 FED. AID PROJECT

PROJECT D-98-019-94 BRIDGE TRAFFIC SIGNAL/
OVERHEAD SIGN TRUSS ON
FA 600 (IL 159)
SOUTH OF RAMP B & RAMP D Bored By LARRY FORD SEC. 82-5K-1 STA. Checked By MARY LAMIE COUNTY St. Clair Strct. No.\_\_\_\_ Surf Wat El. Grndwater El. at Compl Boring No. 6 Sta 0+854 Qu kPa 0/S 19m LT kPa El. % At El. Ground Surface 178.98 0m BROWN CLAYEY SILT 95.76 18 -7 W/ ROCK 114.91 19 178.06 F.W.\_\_\_ 57.46 21 28.73 21 177.61 172,37 28 BROWN SILTY CLAY W/ ROCK AND CINDERS 191.52 26 176.84 287.28 24 <u>- 9</u> BLACK SILTY CLAY 239.40\_\_25 SMELLS VERY ORGANIC 210.67\_32 \_191.52\_\_30 \_172.37\_\_31 \_\_95.76\_\_31 175.78 GREENSIH GRAY CLAYEY SILT 175.32 47.88\_32 END OF HAND AUGER POCKET PENETROMETER

Bridge Foundation

04/20/88

Sh. 1 of 1

Boring Log

Date

11

13

ILLINOIS DEPARTMENT OF TRANSPORTATION

-5

N 50 mm OD Sampler, Driven 305 mm 83.5Kg Hammer, 760 mm Fall (F.W.-Free Water B-Bulge S-Shear)

District Eight Materials Depth Increment = 152.5mm
NE 1/4, NE 1/4, SECTION 28, T2N, R8W, 3RD PM

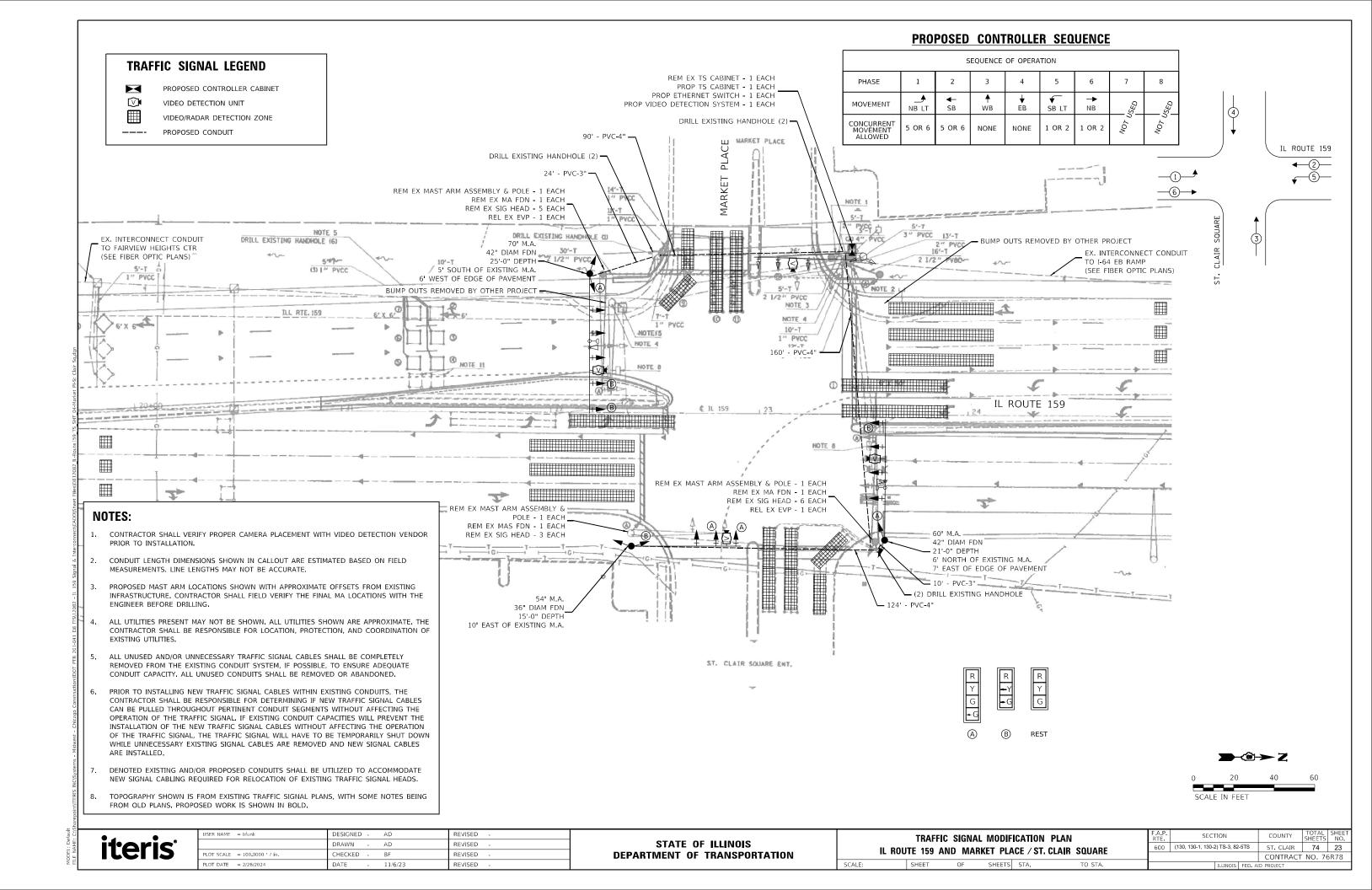
ILLINOIS DEPARTMENT OF TRANSPORTATION Bridge Foundation District Bight Materials Depth Increment = 152.5mm Bor NW 1/4 OF NW 1/4, SECTION 27, T 2 N, R 8 W, 3RD P.M. Boring Log Sh. 1 of 1 BRIDGE FAP 600 (IL 159) OVER FAI 64 Date 08/17/93 ROUTE FAI 64 Bored By LARRY FORD 1+066.80 FAP 600 = SEC. 82-5K-1 STA. 16+375.96 FAI 64 Checked By MARY LAMIE COUNTY St. Clair Strct. No.\_\_\_\_ Surf Wat El. Grndwater El Boring No. 1, N. ABU at Compl Sta 1+088.44 O/S 30.48m RT.C.L. Qu El. N kPa % At El. kPa Ground Surface175.47 S/20 153.28 24 GRAY SILT WITH IRON OXIDE 344.88 21 S/20 \_\_143.70\_\_26 167.24 S/15 143.70 25 BROWN AND GRAY S/20 SILTY CLAY 153.28 29 SEMI-SATURATED 47.90 29 166.18 \_\_114.96\_\_27 CLAY TILL W/SAND SEAM \_\_S/10\_\_\_25 \_\_38.32 166.02 76.64 27 END OF BORING 171.82 S/20 86.22 29 11 GRAY CLAYEY SILT S/20 F.W. 67.06\_29 \$/20 76.64 31 13 134.12 27

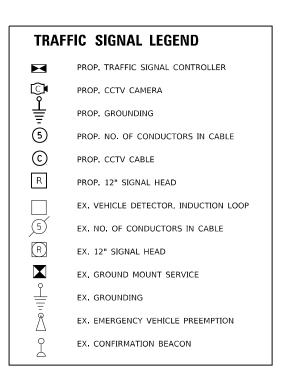
N 50 mm OD Sampler, Driven 305 mm 63.5Kg Hammer, 760 mm Fall (F.W.-Free Water B-Bulge S-Shear)

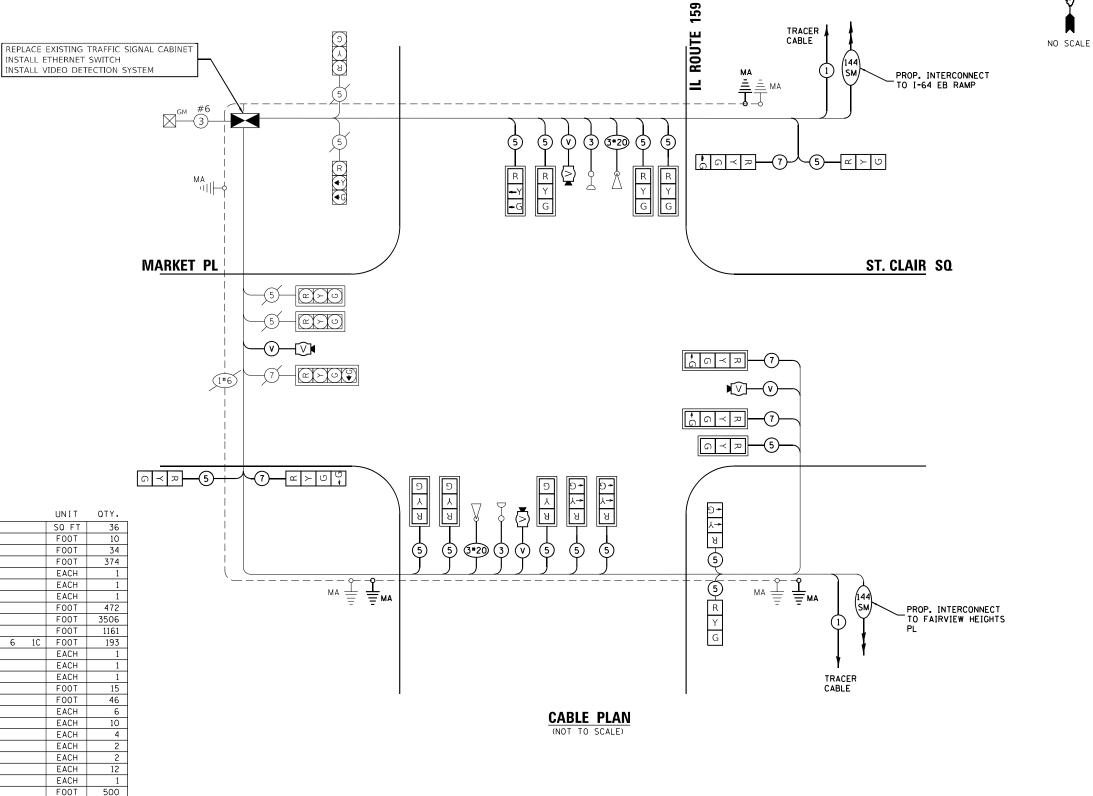
• 4.	•	
ite	ris	

USER NAME = bfunk	DESIGNED - BF	REVISED -
	DRAWN - BF	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED - AD	REVISED -
PLOT DATE = 12/21/2023	DATE - 11/10/23	REVISED -

SOIL BORING LOGS		F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
L ROUTE 159 AND I-64 EB RAM	IDS	600	(130, 130-1, 130-2) TS-3, 82-	-5TS	ST. CLAIR	74	74 22
E HOUTE 133 AND 1-04 ED HAIN				CONTRACT	NO. 76	5R78	
ET OF SHEETS STA.	TO STA.		ILLINOIS	FED. AI	D PROJECT		







SCALE:

#### **SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNIT	QTY.
RELOCATE SIGN PANEL - TYPE 1	SQ FT	36
LOCATING UNDERGROUND CABLE	FOOT	10
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	34
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	374
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	472
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3506
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1161
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	193
STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 60 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 70 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	46
DRILL EXISTING HANDHOLE	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	12
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	500
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	472
VIDEO DETECTION SYSTEM	EACH	1
ETHERNET SWITCH	EACH	1

\*NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY ENGINEER



USER NAME = bfunk	DESIGNED -	AD	REVISED -	
	DRAWN -	AD	REVISED -	
PLOT SCALE = 100.0000 / in.	CHECKED -	BF	REVISED -	
PLOT DATE = 2/27/2024	DATE -	2/26/24	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	Т	RAFFIC SIG	NAL CA	BLE PI	LAN
IL ROU	TE 159	AND MARI	KET PLA	CE /ST	T. CLAIR SQUARE
	SHEET	OF	SHEETS	STA	TO STA.

F.A.P. RTE.         SECTION         COUNTY         TOTAL SHEETS         SHEETS NO.           600         (130, 130-1, 130-2) TS-3, 82-5TS         ST. CLAIR         74         24           CONTRACT NO. 76 R78           ILLINOIS         FED. AID PROJECT							
CONTRACT NO. 76R78	F.A.P. RTE	SECTION			COUNTY		
	600	(130, 130-1, 130-2) TS-3,		ST. CLAIR	74	24	
ILLINOIS FED. AID PROJECT					CONTRACT	NO. 76	5R78
		ILLINO	S FED.	Α	D PROJECT		

Page 1 of 1

Date 1/22/01

SECTION130-1RS, 130-1I-TS-2						29 30 30			
COUNTY St. Clair DI	RILLING	5 ME	THOD			Hand Auger	HAMMER	ITPE	DCP
STRUCT. NOStation	_	D E P	L	U C S	M 0 1	Surface Water Elev. Stream Bed Elev.		_ ft _ ft	
Station         HA 1 NW Quad           Offset         70.00ft Left		Н	S	Qu	S	Groundwater Elev.: First Encounter Upon Completion		ft	
Ground Surface Elev. 580.6	ft	(ft)	(/6")	-1	(%)	After Hrs.		_ ft	
Brown and Black LOAM		-		1.0	20				
		-	8	1.75	23				
	577.6	V-		1.75	30				
Brown Clay LOAM	576.6	_	8	2.0	27				
Brown Yellow CLAY				0.75	28				
			-	0.5	31				
	574.6		7	0.8	31				
Gray Yellow CLAY		<u>¥</u> _		1.25	29				
	572.6	_	7	1.23	29	1			
Gray Silty CLAY	571.6	_		0.5	31				
End of Hand Auger		-10							
Pocket Penetrometer used for Qu		_							
"N" values shown are calibrated from a curve converting dynamic cone N to SPT "N".		_							
Reference ASTM STP 399									
The blows to set the DCP are not included in the blow count.									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



## **SOIL BORING LOG**

Page 1 of 1

Date 1/22/01

COUNTY St. Clair DF	OLL FINA	: NAC	THAN			Hand Auger	HAMMED	TVDE	DCP
COUNTYSt. Clair Dr	(ILLING				ĭ	Hand Adger	- LIMMINEL	11FC	DOF
STRUCT. NO.	_	D	B	C	M	Surface Water Elev.		_ ft	
Station	_	P	0	s	1	Stream Bed Elev.		_ π	
BORING NO. HA 2 SW Quad		T	1000	Qu	S	Groundwater Elev.:	F70.0		
Station         22+25           Offset         66.00ft Left	_	100		20,70		First Encounter Upon Completion	573.8	_π <del>_z</del> ft	
Ground Surface Elev. 580.9	ft	(ft)	(/6")	(tsf)	(%)	After Hrs.		ft	
Brown/Yellow Silty LOAM	E70.0			No	20				
Diod. I OAM	579.9			Test	25				
Black LOAM	578.9		5	0.75	07				
Brown/Yellow Clay LOAM				2.0	27				
				2.25	28				
	576.9		8	1.0	29				
Yellow Silty CLAY		-5		1.0	23				
				0.75	32				
·	574.9		7	1.2	31				
Gray Yellow Silty CLAY		_			150				
		_	9	1.2	29				
			9	1.0	30				
				4.00	30				
		-10	9	1.25	30				
				1.8	29				
	569.9			1.5	29				
Gray with Yellow Silty CLAY		-		1.0	20				
				1.25	30				
Black Silt LOAM with Gray	567.9			1.2	32				
SHALE	566.9								
End of Hand Auger		45			41				
		15							
Pocket Penetrometer used for Qu									
"N" values shown are calibrated from a curve converting dynamic	10								
cone N to SPT "N".		-							
Reference ASTM STP 399									
The blows to set the DCP are not included in the blow count.		-							
moraged in the blow count.		20							

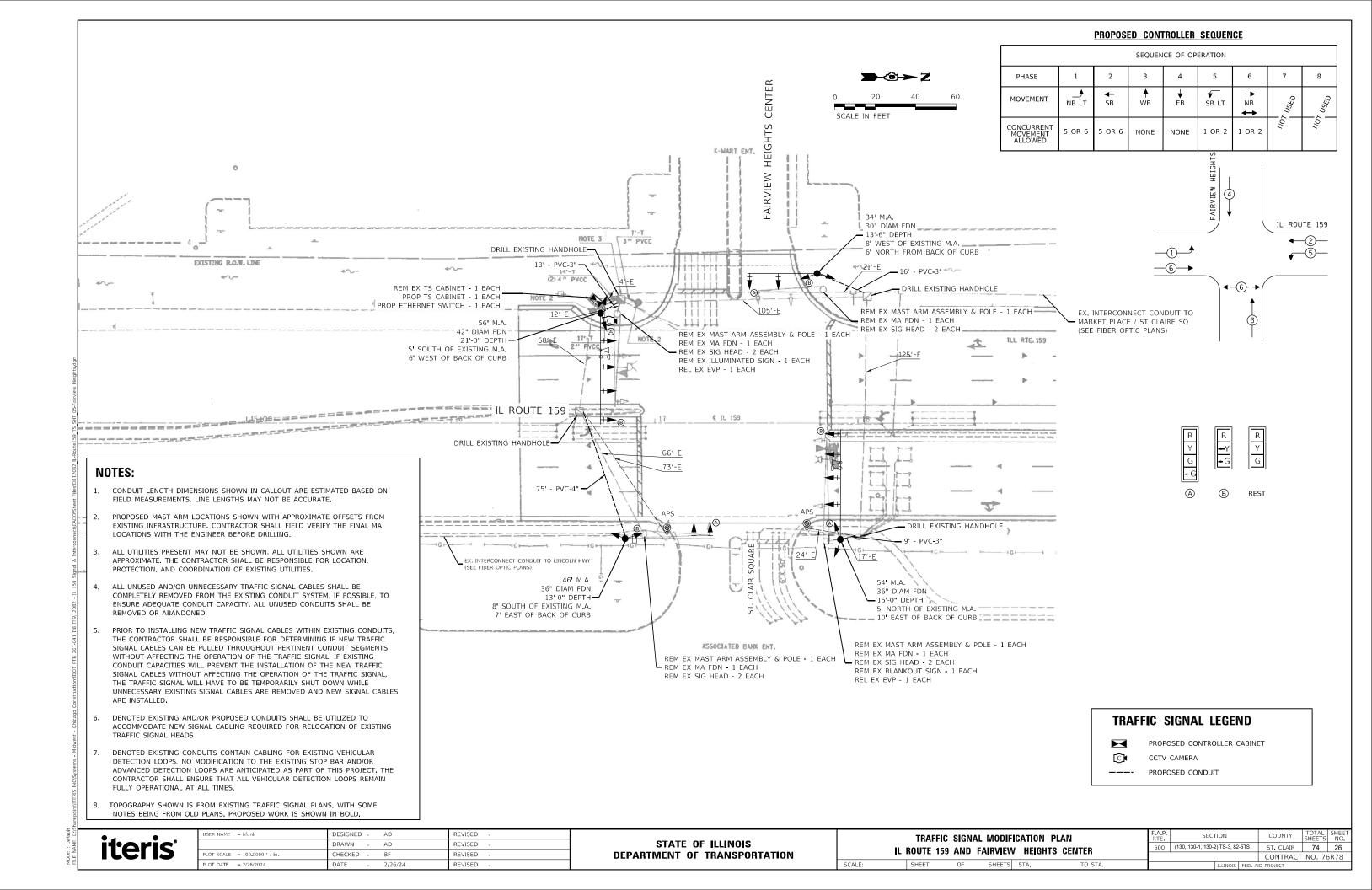
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

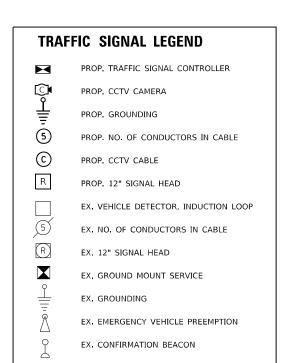
BBS, from 137 (Rev. 8-99)



USER NAME = bfunk	DESIGNED -	BF	REVISED	-
	DRAWN -	BF	REVISED	-
PLOT SCALE = 100.0000 / in.	CHECKED -	AD	REVISED	-
PLOT DATE = 12/21/2023	DATE -	11/10/23	REVISED	-

F.A.P. RTE	SECTIO	N		COUNTY	TOTAL SHEETS	SHEE NO.
600	(130, 130-1, 130-2) TS	S-3, 82	-5TS	ST. CLAIR	74	25
			CONTRACT	NO. 76	5R78	
	ILL	INOIS	FED. AI	D PROJECT		

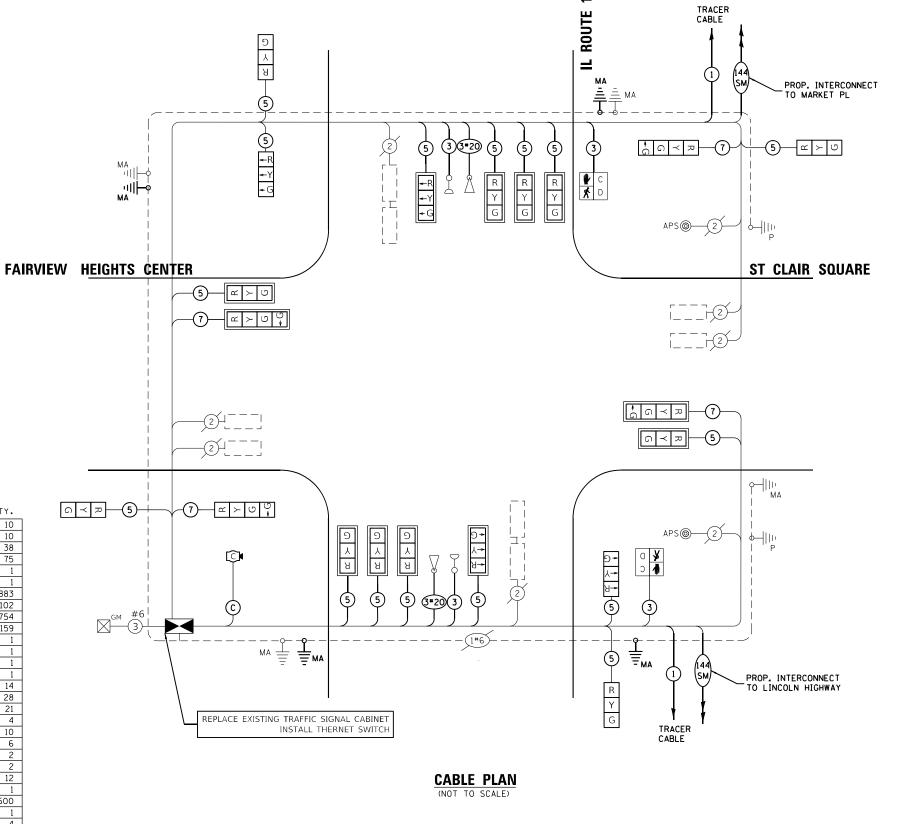




### SCHEDULE OF QUANTITIES

RELOCATE SIGN PANEL - TYPE 1 LOCATING UNDERGROUND CABLE	SQ FT FOOT FOOT	10 10 38
	FOOT	
THE PROPERTY OF THE PARTY OF TH		38
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	
UNDERGROUND CONDUIT, PVC, 4" DIA.		75
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	883
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3102
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	754
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 10	FOOT	159
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	14
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
DRILL EXISTING HANDHOLE	EACH	4
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, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	12
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	500
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	424
ETHERNET SWITCH	EACH	1
CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1

\*NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY ENGINEER



SCALE:



USER NAME = bfunk	DESIGNED - AD	REVISED -
	DRAWN - AD	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED - BF	REVISED -
PLOT DATE = 2/26/2024	DATE - 2/26/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		TRAF	FIC S	SIGNAL CA	BLE PLAN		
IL	ROUTE	159	AND	FAIRVIEW	HEIGHTS	CENTER	
	SHEET		OF	SHEETS	STA.	TO STA.	

NO SCALE

Division of Highways
Illinois Department of Transportation congrnal: IL 158 + ST CLAIR/ venture Entrance

Date 4/5/90

Page 1 of 1

FAP 600 DESCRIPTION IL 159 at St. Clair Square in Fairview Heights LOGGED BY L. Ford LOCATION NW 1/4, SEC. 27, TWP. 2N, RNG. 8W, 3 PM 130-1-1-2

SECTION St. Clair **DRILLING METHOD** HAMMER TYPE В Surface Water Elev. STRUCT. NO. E E L C 0 L C Stream Bed Elev. 0 P 0 5 Т W W S Groundwater Elev.: BORING NO. Qu S T Qu T S First Encounter Station 23+52 Offset 55.00ft R **Upon Completion** Ground Surface Elev. 580.7 ft (ft) (/6") (tsf) (%) (ft) (/6") (tsf) (%) 0.6 38 Gray Peaty SILT (continued) 1 S/15 Brown Silty CLAY 559.2 3 Gray Clayey SILT Brown Fill SAND 5 1.0 | 29 6 S NC 3 WR 2 1.3 28 4 NC 3 S/15 END OF BORING 2 NC 4 0.5 28 Brown and Gray Clayey SILT S 3 1.2 28 4 S/15 2 0.9 29 2 S **Gray Peaty SILT** 0.4 60 4 S/10 2 0.5 45 3 S/10

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



**SOIL BORING LOG** 

origined soil borings have IL 159 + 57 Date 4/5/90

chair/Venture entrance

It St. Clair Square in Fairview Heights LOGGED BY L. Ford

Page 1 of 1

IL 159 at St. Clair Square in Fairview Heights FAP 600 DESCRIPTION

COUNTY St. Clair D	PRILLING	ME	THOD		Ho	llow Stem Auger	HAMMER	TYPE		140# A	utoma	tic
STRUCT. NO		DEP	B L O	U C S	M 0 1	Surface Water Elev. Stream Bed Elev.		ft ft	D E P	B L O	U C S	M 0
BORING NO.         1 NE Quad           Station         17+62           Offset         41.00ft R           Ground Surface Elev.         578.8		H (ft)	W S (/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion After Hrs.	568.4	ft		W S (/6")	Qu (tsf)	S T (%)
Ground Surface Elev		(1.4)	(, ,	(101)	(70)	Gray SILT (continued)		, rc	11.5	2	0.7	26
Brown Silty CLAY										3	S/10	
		_							-			
	18		3							1		
			4	1.5 S/10	26					2	0.8 S/15	28
	574.8	-	,	3/10							0,10	
Brown and Gray SILT	-	-5	2	0.7	26				-25	2	0.8	31
			3	S/15				552.8		3	S/15	
		-				END OF BORING			-			
	19		1									
			2	0.7 S	28				_			
		-		3		-			-			
	į	-10 <b>Y</b>	1 2	0.4	28				-30			
		<u>*</u> _	2	S					T			
Loss on Ignition 10.1%	567.3								1-			ļ
Gray and Brown Peaty SILT	٠ .	-	1						-			
,			3	8.0	35							
Loss on Ignition		_	4	S/10	,				_			
9.4%	-	-	Ì					9			3	
		-15	1						-35			
		-	3 6	0.7 S/5	51				-			
Loss on Ignition			-									
7.2%												
		-	1	1.0	37				_			
	3		3	S/10								
	559.8			of all								
Gray SILT		-20	1						-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

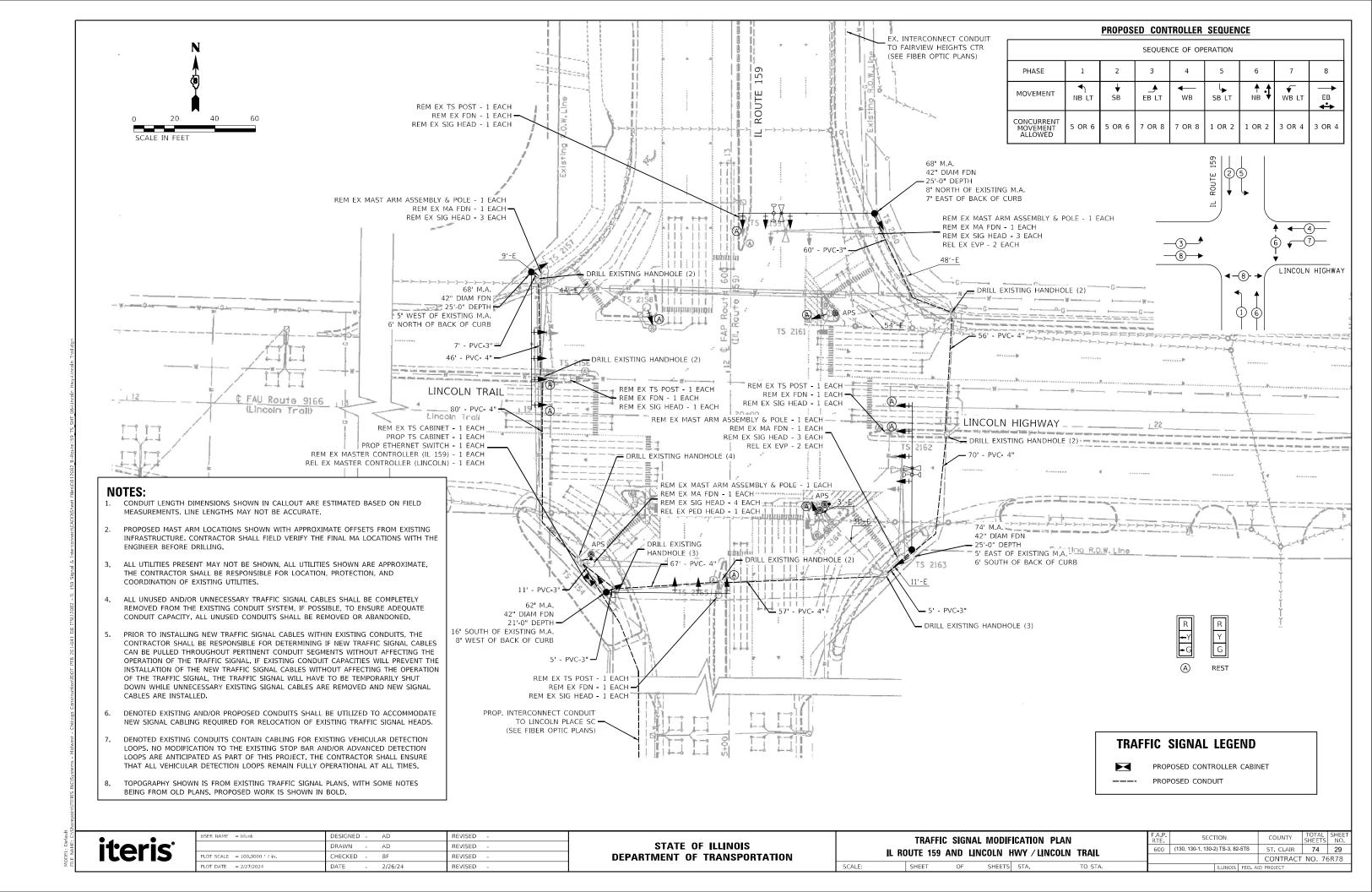
ST. CLAIR 74 28

CONTRACT NO. 76R78



USER NAME = bfunk	DESIGNED -	BF	REVISED -	
	DRAWN -	BF	REVISED -	
PLOT SCALE = 100.0000 / in.	CHECKED -	AD	REVISED -	
PLOT DATE = 12/21/2023	DATE -	11/10/23	REVISED -	

SOIL BORING LOGS	F.A.P. RTE	SECTION	
IL ROUTE 159 AND FAIRVIEW HEIGHTS CENTER	600	(130, 130-1, 130-2) TS-3, 82-5TS	Г
IL HOUTE 133 AND TAINVIEW HEIGHTS GENTEN			Г
SHEET OF SHEETS STA TO STA		TILINOIS SED A	는



### NOTES:

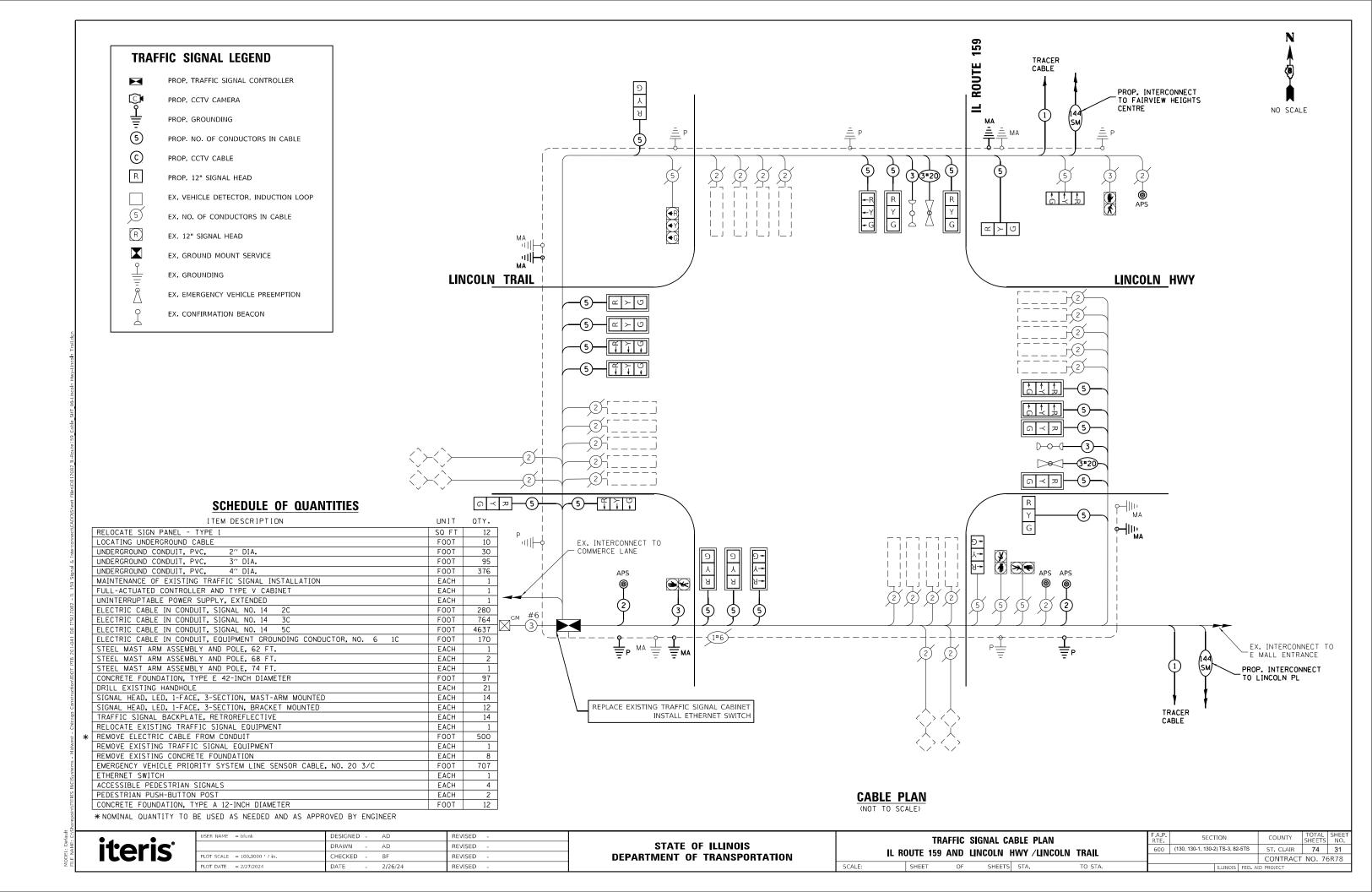
1. PEDESTRIAN PUSH BUTTON POSTS TO BE FIELD-LOCATED IN COORDINATION WITH THE ENGINEER.



USER NAME = bfunk	DESIGNED - AD	REVISED -
	DRAWN - AD	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED - BF	REVISED -
PLOT DATE = 3/5/2024	DATE - 2/26/24	REVISED -

STATE	OF	ILLINOIS
DEPARTMENT	OF 1	<b>TRANSPORTATION</b>

	TRAFFIC SIGNAL MODIFICATION PLAN ROUTE 159 AND LINCOLN HWY/LINCOLN TRAIL					F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RC						600	(130, 130-1, 130-2) TS-3, 82-5TS	ST. CLAIR	74	30
	NOOTE 135 AND LINCOLN HVVY / LINCOLN TRAIL							CONTRACT	NO. 76	5R78
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		



0	
(PS)	Illinois Department
(A)	of Transportation
	Division of Highways

Page 1 of 1

	Division of Highw Illinois Departme	ent of Transportation			Date	7/11/9
OUTE _	FAP 600	DESCRIPTION	affic Signals at IL 159 and Lincoln Trail in Fairview Heights	LOGGED BY	′ι	Ford
ECTION	130-1	R LOCATION _	SW 1/4, SW 1/4, SEC. 22, TWP. 2N, RN	IG. 8W, 3 PM		
COUNTY	St. Clair	DRILLING METHOD	Hollow Stem Auger H	IAMMER TYPE 1	40# Au	tomatic

COUNTY St. Clair DRILLING	ME	THOD	_	Но	llow Stem Auger	_ HAMMER TYPE		140# A	utoma	itic
STRUCT. NO.           Station         20+00=11+78           BORING NO.         1 SW Quad           Station         19+25           Offset         58.00ft R (Lincoln)	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. Stream Bed Elev. Groundwater Elev.: First Encounter Upon Completion	ft ft		B L O W S	U C S Qu	M O I S T
Ground Surface Elev. 574.6 ft	(11)	(/6")	(tsf)	(%)	After Hrs.		(11)	(/6")		(%)
Brown and Gray Very Silty CLAY	_				Gray Very Silty CLAY	(continuea) 553.	<u> </u>	3 4	1.4 B	28
		2 3 4	1.0 S/10	21			_		0.00	
Gray Clayey SILT		1	0.5	32			25			
(PETROLEUM PRODUCTS)		2	S/15	32			_			
PID = 90 ppm		2 4 4	1.1 S/15	27						
PID = 40 ppm	-10 -10	3 4	1.5 S/15	28			30			
Brown Peaty SILT (with Some Wood)		2	1.6	50						
	-15	2	S/5				-35			
558.1		5 8	1.4 S/10	59						
Gray Very Silty CLAY	¥	1	0.4	30						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



# **SOIL BORING LOG**

Page 1 of 1

Date 7/11/91

Traffic Signals at IL 159 and Lincoln Trail in

SECTION 130-1R L	OCAT	ION _	SW 1/	4, SW	1/4, SEC. 22, TWP. 2N, RN	IG. 8W, 3	PM				
COUNTY St. Clair DRILLII	NG ME	THOD		Но	ilow Stem Auger Hu	AMMER 1	TYPE	1	40# A	utoma	tic
STRUCT. NO	D E P T	B L O W	U C S	M O I S	Surface Water Elev. Stream Bed Elev.		ft	D E P	B L O	U C S	M 0 1 S
BORING NO.         2 SE Quad           Station         20+89           Offset         60.00ft R (Lincoln)           Ground Surface Elev.         571.8         ft	Н	S (/6")	Qu (tsf)	Т	Groundwater Elev.: First Encounter Upon Completion After Hrs.		ft		S (/6")	Qu (tsf)	T (%
Brown Silty SAND (BACKFILL)	_				Gray Very Silty CLAY (con	ntinued)	550.6	-	3 4	0.9 S	25
		1			END OF BORING						
	_	1	NC	-							
	-5	1						-25	2		
565	.9	1	NC	-				-			
Gray and Brown Peaty Clayey SILT (with Some Wood)	-	1						_			
	_	3	1.1 S/5	53			9	-			
	-10	-					9	-30			
(13.9% LOSS ON IGNITION)	_	5 8	1.2 S/10	55			,				
	_	1	1.0	40							
557.	88	3 6	1.2 S/10	43				_	11 0 8		
Gray Very Silty CLAY	15	1 3	0.5	29				-35			
		4	9.5 S	29							
		1 3	1.4	28							
	-	3	S								
	-							-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

SCALE:

BBS, from 137 (Rev. 8-99)



USER NAME = bfunk	DESIGNED -	BF	REVISED	-
	DRAWN -	BF	REVISED	-
PLOT SCALE = 100.0000 / in.	CHECKED -	AD	REVISED	-
PLOT DATE = 12/21/2023	DATE -	11/10/23	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

	SOIL BORING LOGS											
IL RO	OUTE 159	AND	LINCOLN I	HWY / LINCOLN	TRAIL							
	SHEET	OF	SHEETS	STA.	TO STA.							

F.A.P. RTE	SECT	ПОИ		COUNTY	TOTAL SHEETS	SHEE
600	(130, 130-1, 130-2	2) TS-3, 82	ST. CLAIR	74	32	
				CONTRACT	NO. 76	5R78
		ILLINOIS	FED. A	D PROJECT		

(23)	Illinois Department
(18)	of Transportation
	Division of Highways

Page <u>1</u> of <u>1</u>

Date	7/11/91

Division of Highways Illinois Department of Trans	portation									Date	7/1	1/91
ROUTE FAP 600 DESC	RIPTIO	N	Tra	affic Si	ignals F	at IL 159 and Lincoln Tr airview Heights	ail in	LOGGE	D B	Υ	L. Fo	rd
SECTION130-1R	LO	CAT	ION _	SW 1/	4, SW	1/4, SEC. 22, TWP. 2N	, RNG. 8W,	3 <b>PM</b>				
COUNTY St. Clair D	RILLING	3 ME	THOD		Но	llow Stem Auger	HAMMER	TYPE		140# A	utoma	tic
STRUCT. NO.           Station         20+00=11+78           BORING NO.         3 NW Quad           Station         19+37           Offset         60.00ft L (Lincoln Ground Surface Elev.         572.7	1)	D E P T H	B L O W S	U C S Qu (tsf)	M O I S T	Surface Water Elev. Stream Bed Elev.  Groundwater Elev.: First Encounter Upon Completion After 2 Hrs.		ft ft	D E P T H	O W S	U C S Qu (tsf)	M O I S T
(Brown Sand Backfill Near 20"		-							-	3	1.3	25
Ductal Iron Watermain)		_			,	END OF BORING	·	551.5	_	4	S/15	
	568.7								_			
Gray and Brown Very Silty CLAY		<u></u> -5	1 2	0.4	31				-25			
		_	3	S/15	1000				_			
		_	1 3	1.0	30				_			
			4	\$/15	1-3-5				_			
		-10	2	1.8	29				30			
Constant Press Posts Class	561.7	_	4	S	23				_			
Gray and Brown Peaty Clayey SILT			2									
		-	3 6	1.0 S/5	61				_			
	557.8		2						-35		ş	
Gray Very Silty CLAY			2	0.5 S	28				_			
Semi-Saturated 556.8-553.4		_							_			
		_	2 2	0.6 S/15	30				_			
			_	3,10								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



**SOIL BORING LOG** 

Page 1 of 1 Date 7/11/91

Traffic Signals at IL 159 and Lincoln Trail in

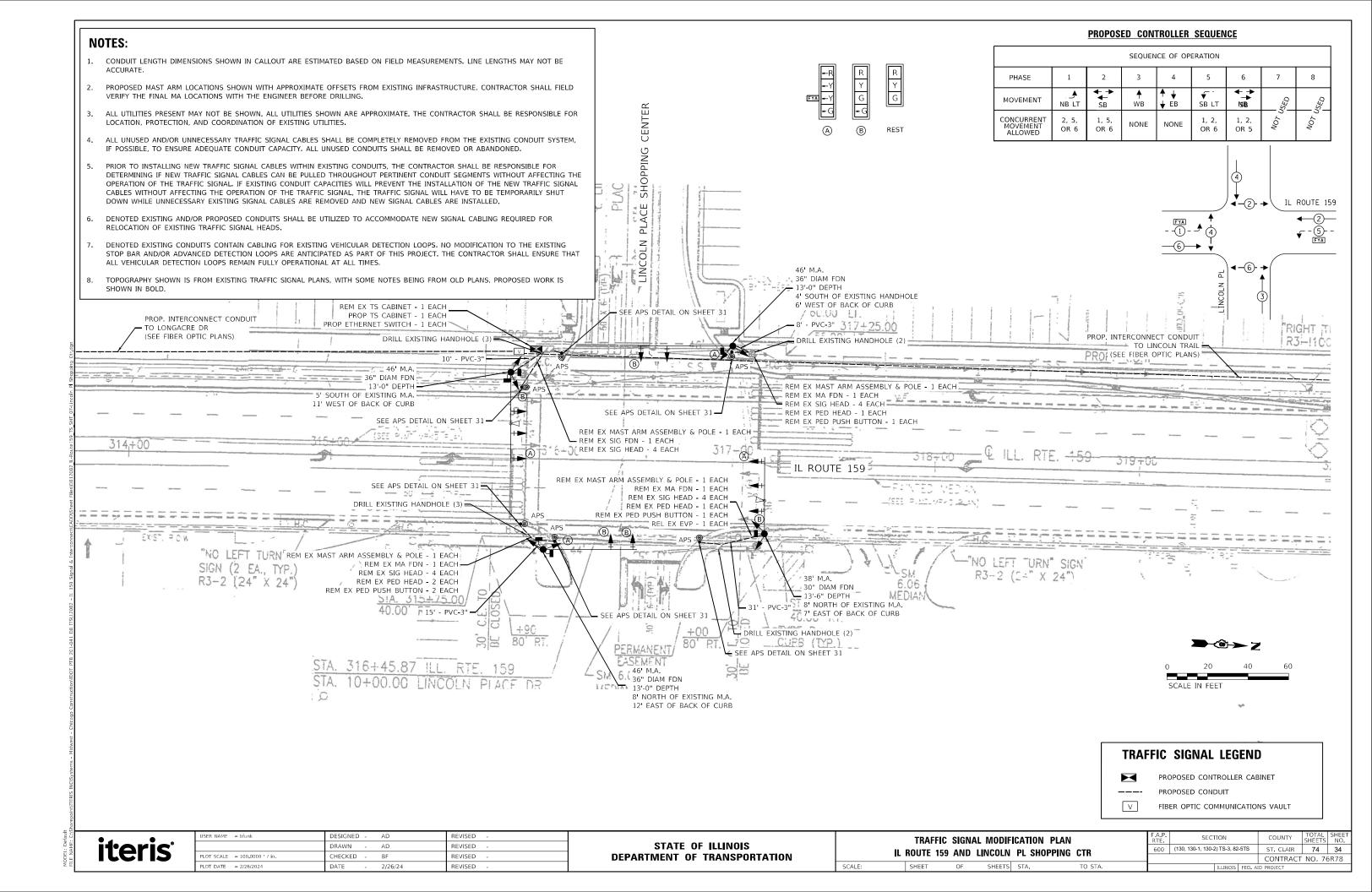
SECTION 130-1R	LO	CATI	ON	SW 1/	4. SW	/ 1/4, SEC. 22, TWP. 2N, RNG. 8W, 3 PM
						llow Stem Auger HAMMER TYPE 140# Automatic
STRUCT. NO.   20+00=11+78		D E P T H	O W	U C S Qu (tsf)	M O I S T	Surface Water Elev.       ft       D       B       U       M         Stream Bed Elev.       ft       E       L       C       C         Groundwater Elev.:       T       W       S       I         First Encounter       561.6       ft       H       S       Qu       T         Upon Completion       ft       It       It
Gray and Brown Sandy Very Silty CLAY		_				Brown and Gray Very Silty CLAY 2 0.8 29 (continued) 552.1 3 S
SLAT			5 6 5	1.1 S/5	18	END OF BORING
	_569.1			3/3		
Brown and Gray Silty CLAY		5	2 2	0.9 S/15	28	25i 
		<u>▼</u> -	1 2	1.0	28	
			3	S/15		
		-10	1 2 3	1.3 S/15	28	
	561.6	<u>v</u> _	1			
END F.W.			2 2	0.4 S/10	33	
		-15	2	4.4	30	
	_556 <u>.6</u>		4	1.1 S/10	- 30	
Brown and Gray Very Silty CLAY			1 2 2	0.4 S/15	32	
		-20	1			-40

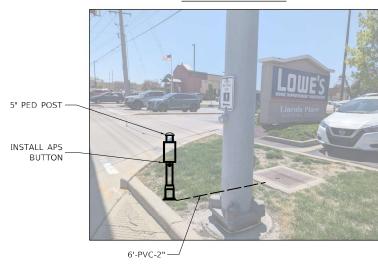
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

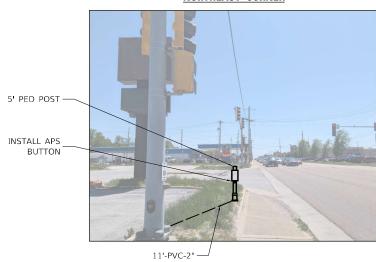


USER NAME = bfunk	DESIGNED	-	BF	REVISED -
	DRAWN	-	BF	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED	-	AD	REVISED -
PLOT DATE = 12/21/2023	DATE	-	11/10/23	REVISED -

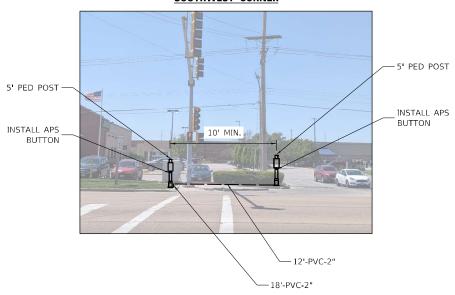




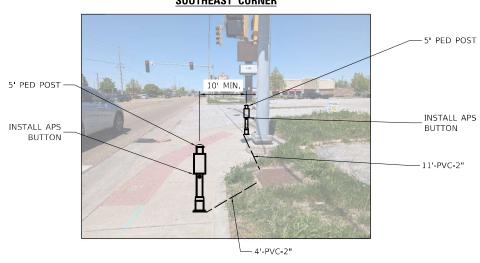




SOUTHWEST CORNER



### SOUTHEAST CORNER



### NOTES:

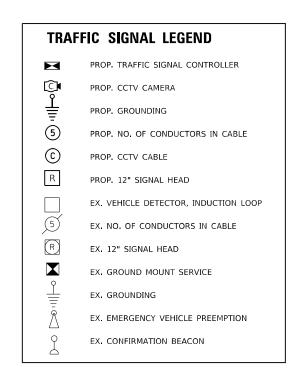
1. PEDESTRIAN PUSH BUTTON POSTS TO BE FIELD-LOCATED IN COORDINATION WITH THE ENGINEER.



USER NAME = bfunk	DESIGNED -	AD	REVISED -
	DRAWN -	AD	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	BF	REVISED -
PLOT DATE = 2/26/2024	DATE -	2/26/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

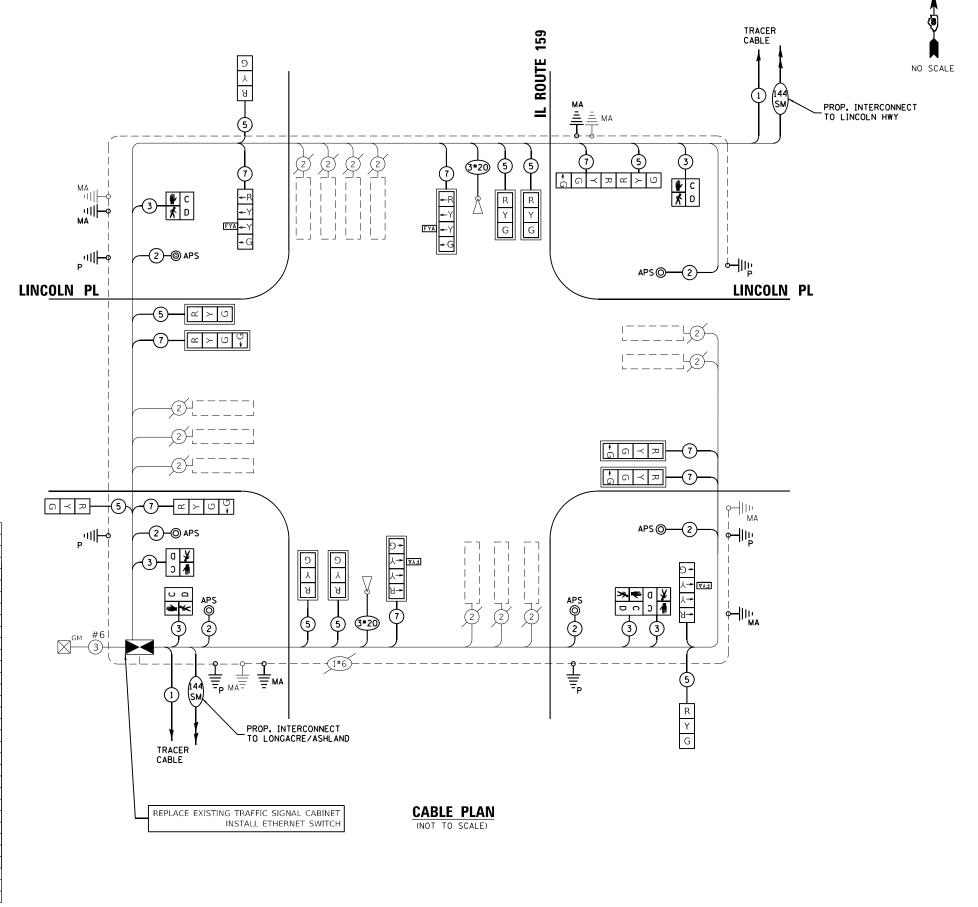
TRAFFIC SIGNAL MODIFICATION PLAN						F.A.P. RTE	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
IL ROUTE 159 AND LINCOLN PL SHOPPING CTR					600	(130, 130-1, 130-2) TS-3, 82-5TS		ST. CLAIR	74	35		
IL HOUTE 133 AND ENGOCIA TE SHOTTING CITI										CONTRACT NO. 76R78		
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI			ID PROJECT		



### SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
SIGN PANEL - TYPE 1	SQ FT	30
RELOCATE SIGN PANEL - TYPE 1	SQ FT	17
LOCATING UNDERGROUND CABLE	FOOT	10
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	69
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	64
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	737
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	789
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1548
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1617
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	248
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	3
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	14
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	39
DRILL EXISTING HANDHOLE	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	5
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	10
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	500
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	364
ETHERNET SWITCH	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
PEDESTRIAN PUSH-BUTTON POST	EACH	6
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	24

\*NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY ENGINEER



SCALE:

iteris

USER NAME = bfunk	DESIGNED - AD	REVISED -
	DRAWN - AD	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED - BF	REVISED -
PLOT DATE = 2/26/2024	DATE - 2/26/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN	F.A.P. RTE	SECTION
IL ROUTE 159 AND LINCOLN PL SHOPPING CTR	600	(130, 130-1, 130-2) TS
SHEET OF SHEETS STA. TO STA.		ILLI

### **SOIL BORING LOG**

Page 1 of 1

Date 9/25/23

(130, 130-1, SECTION 130-2)TS-3	LOCA	IION	SEC	TWE	P RNG 3 PM		
COUNTY St. Clair DRI						HAMMER TYPE	Auto
STRUCT. NO. Station  BORING NO. 8-1 NE Station Offset Ground Surface Elev. ft 100	P T H	O W	U C S Qu (tsf)	M O I S T	Surface Water Elev. Stream Bed Elev. Groundwater Elev.: First Encounter Upon Completion After Hrs.	ft ft ft	
8.5" Asphalt	99.3	1					
Dark Brown Silty Clay		4 3	2.25 P	23			
	96.0	WH	2.5	28			
Becomes Grayish Brown		2 WH	Р				
	-	1 2	0.83 B	29			
	_	1 2	2	27			
	1	2	P				
Dark Brown Clayey Silt	89.0	WH WH WH	2 P	66			
becomes wet	87.0	2					
	85.0 -1	2 5 3	2 P	57			
End of Boring			3				
	_		9				
	_				:		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



## **SOIL BORING LOG**

Page 1 of 1

Date 9/25/23

ROUTE FAP 600 (IL 159) DESCRI	PTIOI	N			IL 15	9 & Lincoln Place		LOGGED BY	_KEG - MTH
(130, 130-1, SECTION 130-2)TS-3	_ LO	ÇATI	ON _	SEC.	, TWE	P. , RNG. , 3 PM			
COUNTY St. Clair DR	LLING	3 ME	THOD	1		HSA	HAMMER	TYPE	Auto
STRUCT. NO		D E P	B L O	U C s	M 0 1	Surface Water Elev. Stream Bed Elev.	n/a	ft ft	
BORING NO.         B-2         SE           Station	_	H	S	Qu	S	Groundwater Elev.: First Encounter Upon Completion			
Ground Surface Elev. ft 100			(/6")	(tsf)	(%)	After Hrs.		ft	-
5" Asphalt	99.6	_							
Grayish brown Silty Clay		_	2						
			2	2.25 P	25				
		_	-						
	96.0	_	1						
	90.0	_	1	1.25	28				
becomes very soft		-5	2	Р					
		-							
			WH						
			2 2	0.44 B	27				
		_	2						
			2	0.57	27				
		-10	2	В					
	00.0	_							
	89.0		1						
Dark Brown Clayey Silt w/ organics			2	1.75	68				
organics		_	3	Р	-				
	86.5								
becomes wet		-	2	1	59				
becomes wet	85.0	-15		P	39				
- 1 15	00.0								
End of Boring									
		_							
		_							
		-							
		_							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



USER NAME = bfunk	DESIGNED -	BF	REVISED -
	DRAWN -	BF	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	AD	REVISED -
PLOT DATE = 12/21/2023	DATE -	11/10/23	REVISED -



### **SOIL BORING LOG**

Page 1 of 1

Date 9/21/23

ROUTE FAP 600 (IL 159) DESCRI	PTION	<b>-</b>			IL 15	59 & Lincoln Place		LOGGED BY	KEG - MTH
SECTION (130, 130-1, 130-2)TS-3	LO	CATI	ON	, SEC.	, TWI	P. , RNG. , 3 PM			
COUNTY St. Clair DRI	ILLING	ME	THOD	-		HSA	HAMMER	TYPE	Auto
STRUCT. NO	_	D E P	B L O	U C S	M 0 1	Surface Water Elev. Stream Bed Elev.			
BORING NO. B-3 SW Station Offset Ground Surface Elev. ft 100	_	H (ft)	(/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion		_ ft	
3" Asphalt 12" Concrete	99.8			(101)	(,0,	After Hrs.		_ n	
Brown & Gray Silty Clay	98.8	_	2 6	3.25 P	23	_			
	97.0	Ti-	· ·						
Brown & Gray very soft Clayey Sitt		=	1	0.04	28	-			
		5	1	В					
		_	1	0.13	29				
		-0	2	В		-			
	91.0		WH 1	0.09	29	-			
becomes moist		-10	2	В		-			
Brown Clayey Silt w/ organics	89.0	_	1	1	63				
,,,		-	3	Р					
			1	1.75	70				
	85.0	-15	-	P	70	-			
End of Boring		_							
		_							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



## **SOIL BORING LOG**

Page 1 of 1

Date 9/21/23

ROUTE FAP 600 (IL 159) DESCE (130, 130-1,								OGGED BY	KEG - MIH
SECTION 130-2)TS-3	_ LO	CATI	ON _	SEC.	, TWF	P., RNG., 3 PM			
COUNTY St. Clair DF	RILLING	3 ME	THOD	_		HSA	_ HAMMER T	YPE	Auto
STRUCT. NOStation		D E P	B L O	U C S	M 0 1	Surface Water Elev. Stream Bed Elev.	n/a	ft ft	
BORING NO. B-4 NW Station Offset		Н	w s	Qu	S T	Groundwater Elev.: First Encounter Upon Completion	n/a_		
Ground Surface Elev. ft 100	ft	(ft)	(/6")	(tsf)	(%)	After Hrs.		ft	
10" Concrete 6" grave! agg base	99.2	7.	3						
Brown well sorted coarse Sand Med dense			10 7	-	7				
		=							
		-5	2 1	-	10				
	94.0								
Poor Recovery Fine grained Brown Silty Sand		_	WH WH	-	14				
Med dense	91.5								
gray very soft Clayey Silt		_	4	0.13 B	30				
	89.0	-10		0					
Brown soft Clayey Silt			1 2 3	2.01	53	-			
becomes wet		_	3	S					
w/ organics			1			110			
	85.0	-15	3	1.75 P	53				
End of Boring		_							
				1000					
		_							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

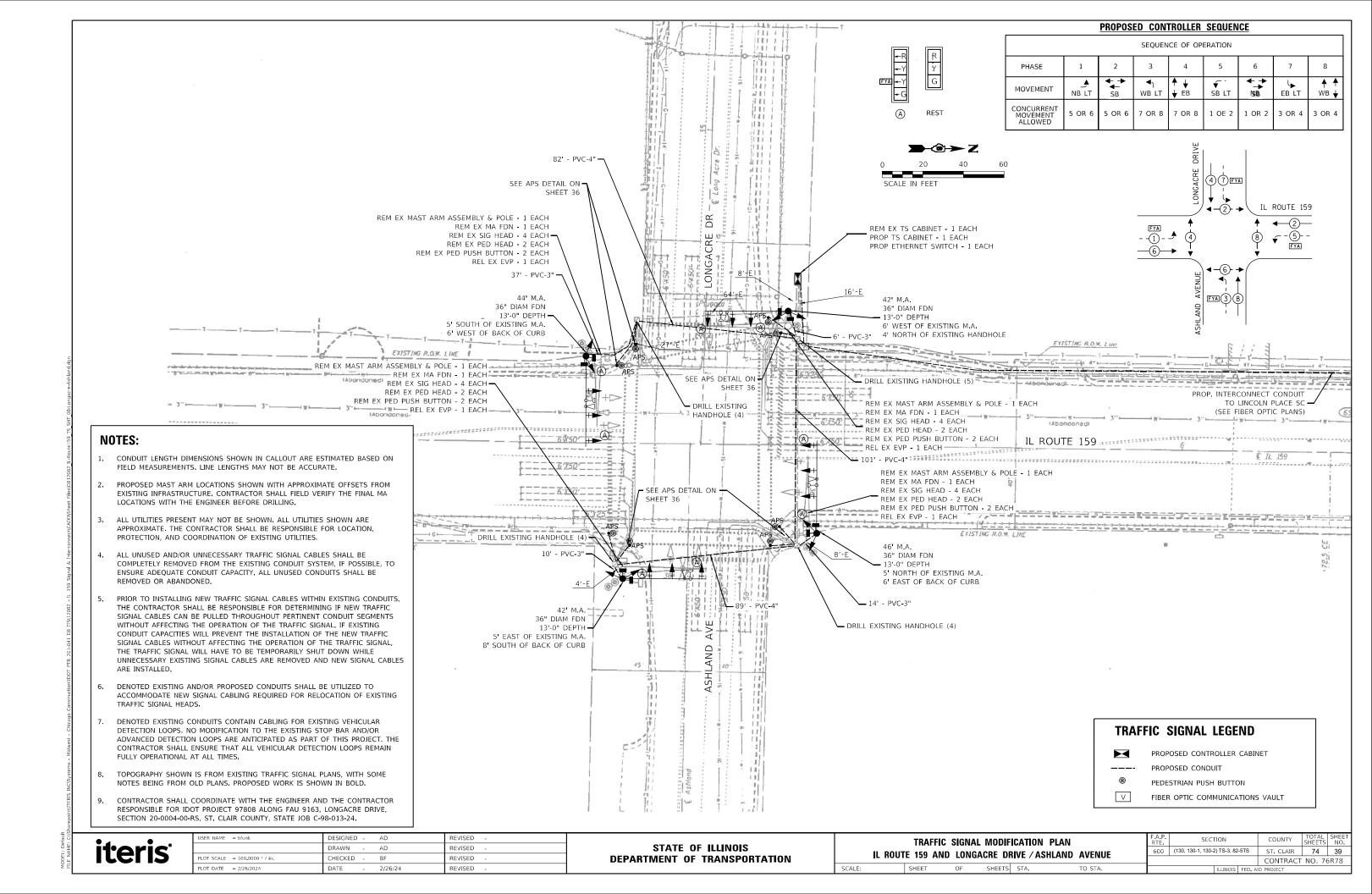
BBS, from 137 (Rev. 8-99) X

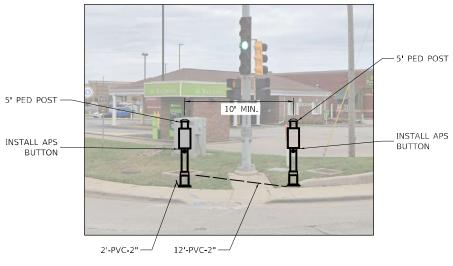


USER NAME = bfunk	DESIGNED	-	BF	REVISED -
	DRAWN	-	BF	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED	-	AD	REVISED -
PLOT DATE = 12/21/2023	DATE	-	11/10/23	REVISED -

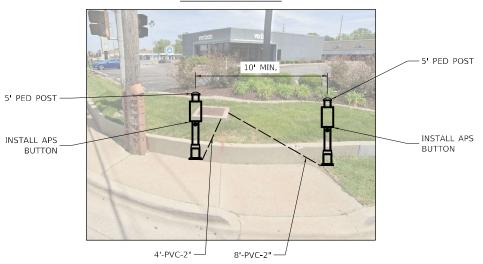
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		F.A.P. RTE	SECTIO				
п	IL ROUTE 159 AND LINCOLN PL SHOPPING CTR						(130, 130-1, 130-2) TS
1.5	11001L 133	AND	LINGOLIN	I E OHOI I HAG	0111		
	CUEET	OF	СПЕСТС	CTA	TO CTA		Lau

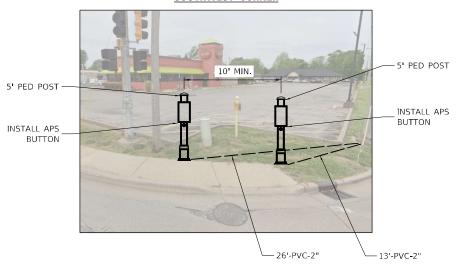




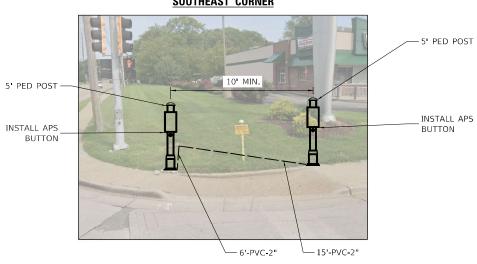
### NORTHEAST CORNER



### SOUTHWEST CORNER



#### **SOUTHEAST CORNER**



SCALE:

#### NOTES:

1. PEDESTRIAN PUSH BUTTON POSTS TO BE FIELD-LOCATED IN COORDINATION WITH THE ENGINEER.

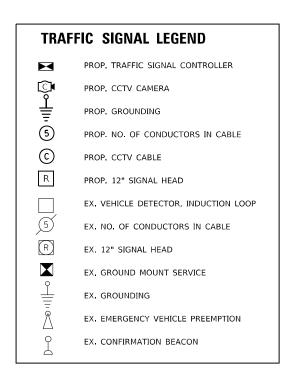
iteris<sup>\*</sup>

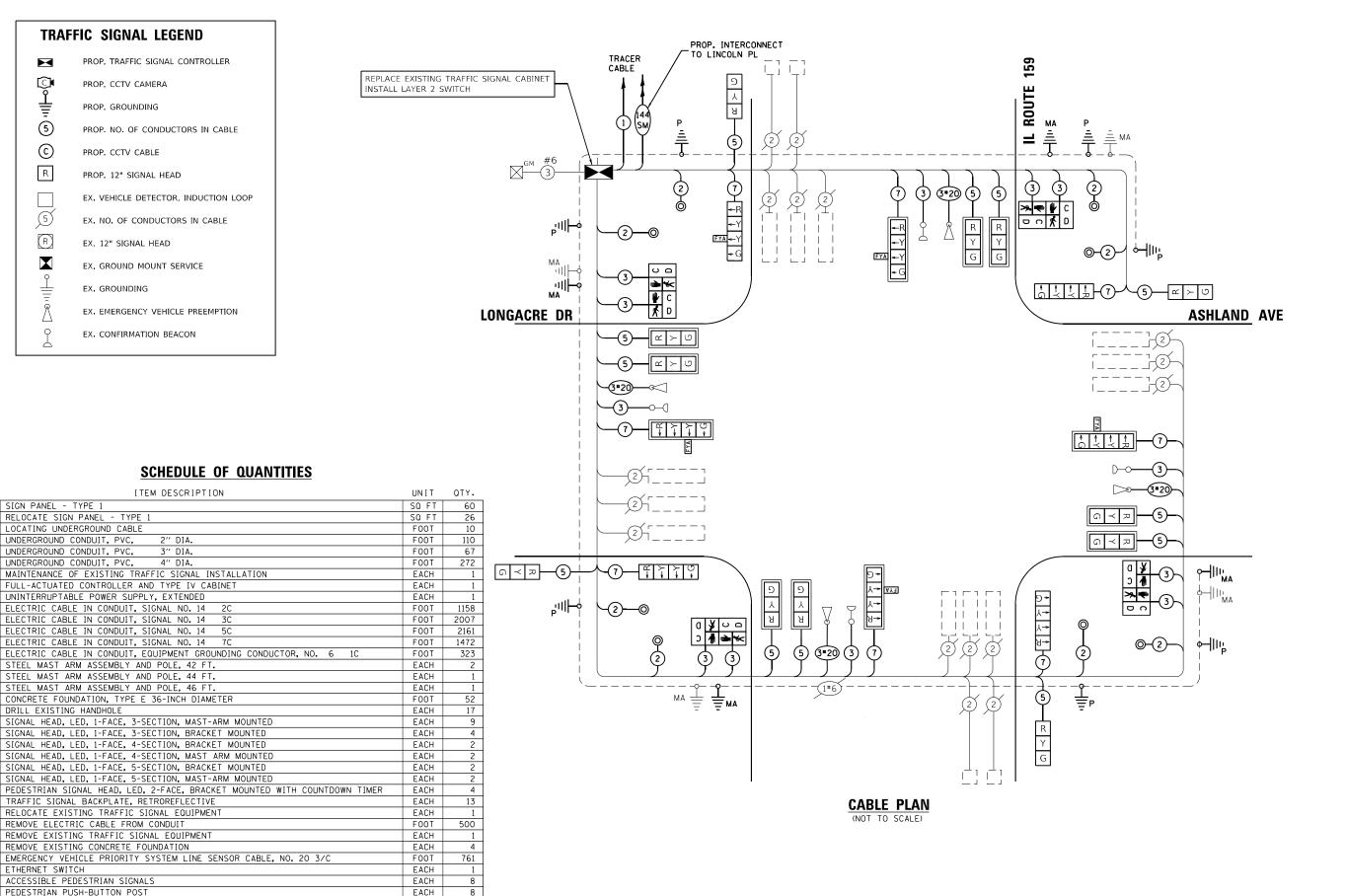
USER NAME = bfunk	DESIGNED	-	AD	REVISED	-
	DRAWN	-	AD	REVISED	-
PLOT SCALE = 100.0000 / in.	CHECKED	-	BF	REVISED	-
PLOT DATE = 2/26/2024	DATE	-	2/26/24	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

II ROUT				ICATION PLAN	ΔVFNIIF
IL 11001	L 105 A11D	LONGA	OIIL DI	IVE / AOIIEAIID	ATLITOL
	SHEET	OF	SHEETS	STA.	TO STA.

SECTION 600 (130, 130-1, 130-2) TS-3, 82-5TS ST. CLAIR **74 40** CONTRACT NO. 76R78





SCALE:

\*NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY ENGINEER

ITEM DESCRIPTION

3" DIA.

4" DIA.

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

FULL-ACTUATED CONTROLLER AND TYPE IV CABINET

ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C

ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C

CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER

SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED

SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED

SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED

SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED

SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED

SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED

UNINTERRUPTABLE POWER SUPPLY, EXTENDED

ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14

ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14

STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.

STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.

STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.

TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE

RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER

REMOVE ELECTRIC CABLE FROM CONDUIT

REMOVE EXISTING CONCRETE FOUNDATION

ACCESSIBLE PEDESTRIAN SIGNALS

PEDESTRIAN PUSH-BUTTON POST



ETHERNET SWITCH

SIGN PANEL - TYPE 1

RELOCATE SIGN PANEL - TYPE 1

LOCATING UNDERGROUND CABLE

UNDERGROUND CONDUIT, PVC,

UNDERGROUND CONDUIT, PVC,

UNDERGROUND CONDUIT, PVC.

DRILL EXISTING HANDHOLE

USER NAME = bfunk	DESIGNED -	AD	REVISED -
	DRAWN -	AD	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	BF	REVISED -
PLOT DATE = 2/26/2024	DATE -	2/26/24	REVISED -

FOOT

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

	TRAI	FIC S	IGNAL CA	BLE PLA	M	
IL ROUT	TE 159 AND	LON	GACRE DE	IVE /AS	HLAND AVENUE	
	SHEET	OF	SHEETS	STA.	TO STA.	

F.A.P. RTE	SECT	ПОИ		COUNTY	TOTAL SHEETS	SHEET NO.
600	(130, 130-1, 130-2	2) TS-3, 82	:-5TS	ST. CLAIR	74	41
				CONTRACT	NO. 76	5R78
		ILLINOIS	FED. A	D PROJECT		

NO SCALE

### **SOIL BORING LOG**

Page 1 of 1

Date 4/21/88

ROUTE FAP 600 DESCRI	PTION _		Traffic	Signa	ls at IL 159 and Longac	re LOGGED BY L. Ford
SECTION 1301	LOCAT	ION _	S 1/2,	SEC.	28, <b>TWP.</b> 2N, <b>RNG.</b> 8W,	3 PM
COUNTY St. Clair DRII	LLING ME	THOD			Hand Auger	HAMMER TYPE
STRUCT. NO.           Station         301+55=10+00 Ashlar           BORING NO.         1           Station         10+62           Offset         31.00ft R           Ground Surface Elev.         585.3	- Р Т Н	L O W S	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. Stream Bed Elev.  Groundwater Elev.: First Encounter Upon Completion After Hrs.	ftft ft
Brown and Gray Clayey SILT with Cinders			0.7	19		
	583.8		1.0	20		
Brown and Gray Silty CLAY	_	-	2.0	27		
			1.2	28		
		5	1.0	31		
	579.3 <b>▼</b>		0.5	34		
Brown and Gray Clayey SILT			0.7	34		
	_		1.0	32		
	_		1.0	33		
	-10		1.0	33		
			1.0	35		
			0.7	35		
END OF BORING  Qu VALUES OBTAINED WITH POCKET PENTROMETER	-10					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



## **SOIL BORING LOG**

Page 1 of 1

ROUTE FAP 600 DESCRIPT	ION _		Traffic	Signa	ils at il. 159 and Longac	LOGGED BY L. Ford
SECTION 1301	LOCAT	ION _	S 1/2,	SEC.	28, T <b>WP.</b> 2N, RNG. 8W	, 3 PM
COUNTY St. Clair DRILL	ING ME	THOD		-	Hand Auger	HAMMER TYPE
STRUCT. NO.           Station         301+54.5=36+90 Longace           BORING NO.         2           Station         36+00           Offset         41.00ft L           Ground Surface Elev.         584.2	T H	U W S	S Qu		Surface Water Elev. Stream Bed Elev.  Groundwater Elev.: First Encounter Upon Completion After Hrs.	ft ft
Brown and Gray Clay SILT with Rock and Sand	-		1.0	18		
	1.7		1.0	16		
Brown and Gray Silty Clay			2.8	22		
			1.8	28		
57 Brown and Gray Clayey SILT	9.2 -5		0.2	31		
	_		1.1	29		
57	6.2		1.5	31		
Brown and Gray SILT	_		0.7	32		
	10		0.7	30		
	_		1.0	31		
57	2.2		1.1	32		
END OF BORING Qu VALUES DETERMINED BY POCKET PENTROMETER						
	-15					
	-					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



USER NAME = bfunk	DESIGNED	-	BF	REVISED -
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PLOT SCALE = 100.0000 / in.	CHECKED	-	AD	REVISED -
PLOT DATE = 12/21/2023	DATE	-	11/10/23	REVISED -



# Bridge Foundation Boring Log

Sh. 1 of 1 Sh.

PROJECTP-98-041-87	BRIDGE	FA	Route	≥ 600	) Traffic Signa	11. Bate	April	21,	198	38	
ROUTEFA 600	(I	11.1	59) (	Lor	gacre Drive	_Bored By	Larry	For	d	e i a i a i a i a i a i a i a i a i a i	- 33
SEC130I	STA	30 L	+54.5	5 = 3	86+90	_Checked By _	Rober	t. Ne	hels	ick	_
COUNTY St. Clair    Boring No. 3   301+47     Offset   42	Elevation	z	Qu t/s.f.	(%) M	Surface Water El. Groundwater El. Completion After Hou	at	Elevation	z	Qu t/s.f.	(%) 🕶	
Ground Surface 584.7	0										
BROWN AND GRAY CLAYEY W/LIMESTONE ROCK	SILT—		1.8	15 14			=				
581.7	-		2.0				-25				
BROWN SILTY CLAY		LER	1.5	26							
	5	OME	1.2	29							
578.7 GW		PENETROMETER	0.8	32	,						
BROWN AND GRAY	-		0.2	31	,						
CLAYEY SILT		POCKET	0.7	32			30				
			1.2	31							
	-10		1.5	31							
			1.5	33							
572.7			1.7	33							
END OF BORING							25				
	-15						-				
	-15										
	-										
							40				
	20					7.1					
	-						-45				
1	_			1			45			1	

N-Standard Penetration Test-Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140 No. hammer falling 30".

Qu-Unconfined Compressive Strength - t/sf

w - Water Content - percentage of oven dry weight-%.

Type failure: B - Bulge Failure

S - Shear Failure E - Estimated Value P - Penetrometer

Illinois Department of Transportation

### **Bridge Foundation Boring Log**

Sh. of Sh.

PROJECTP-98-041-87	_BRIDGE	F <u>A</u>	Route	600	) Traffic Signal	Pate	April :		. <b>o</b> 1988	
ROUTE FA 600	(	11.1.	159)	@ Lc	ongacre Drive	Bored By	Larry 1	Ford		
SEC1301	_STA	301-	+85 =	= 10-	-00	Checked By	Robert	Neb	elsi	ck
COUNTY St. Clair  Boring No. 4  Station 302+36 Offset 43' Rt.E	Elevation	z	Qu t/s.f.	(%) M	Surface Water El. Groundwater El. at Completion After Hours		Elevation	z	Qu t/s.f.	(%) ^
Ground Surface 585.8	0									
BROWN AND GRAY CLAYEY W/ROCK	SILT—		0.8	19						
583.8			1.0	16						
BROWN AND GRAY SILTY W/ROCK	CLAY		2.5	23			-25			
582.8 DARK GRAY CLAYEY SILT		ER	1.5	25						
581.3	-5	PENETROMETER	1.5	28			-25 - - - -30			
BROWN SILTY CLAY		STRO	1.5	26						
DANGER DEBIT		ENE	1.5	29						
578.0			1.3	29			-30			
577.3 GW		POCKET	0.5	32						
BROWN AND GRAY	<u>-10</u>	凸	0.5	30						
CLAYEY SILT			0.7	30						
573.8	_		1.1	33						
							-35			
END OF BORING										
	-15						-			E C
	-15									
							_			
							-40			
							<u>-40</u>			
	20						_			
	-20					1				
							-45			
						200			1	

N-Standard Penetration Test-Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140 No. hammer falling 30".

SCALE:

BD 107 (Day 4 70)

Strength - t/sf w - Water Content - percentage of oven dry weight-%.

Qu-Unconfined Compressive

Type failure: B - Bulge Failure S - Shear Failure

E - Estimated Value P - Penetrometer

DD 197 /Day A 701

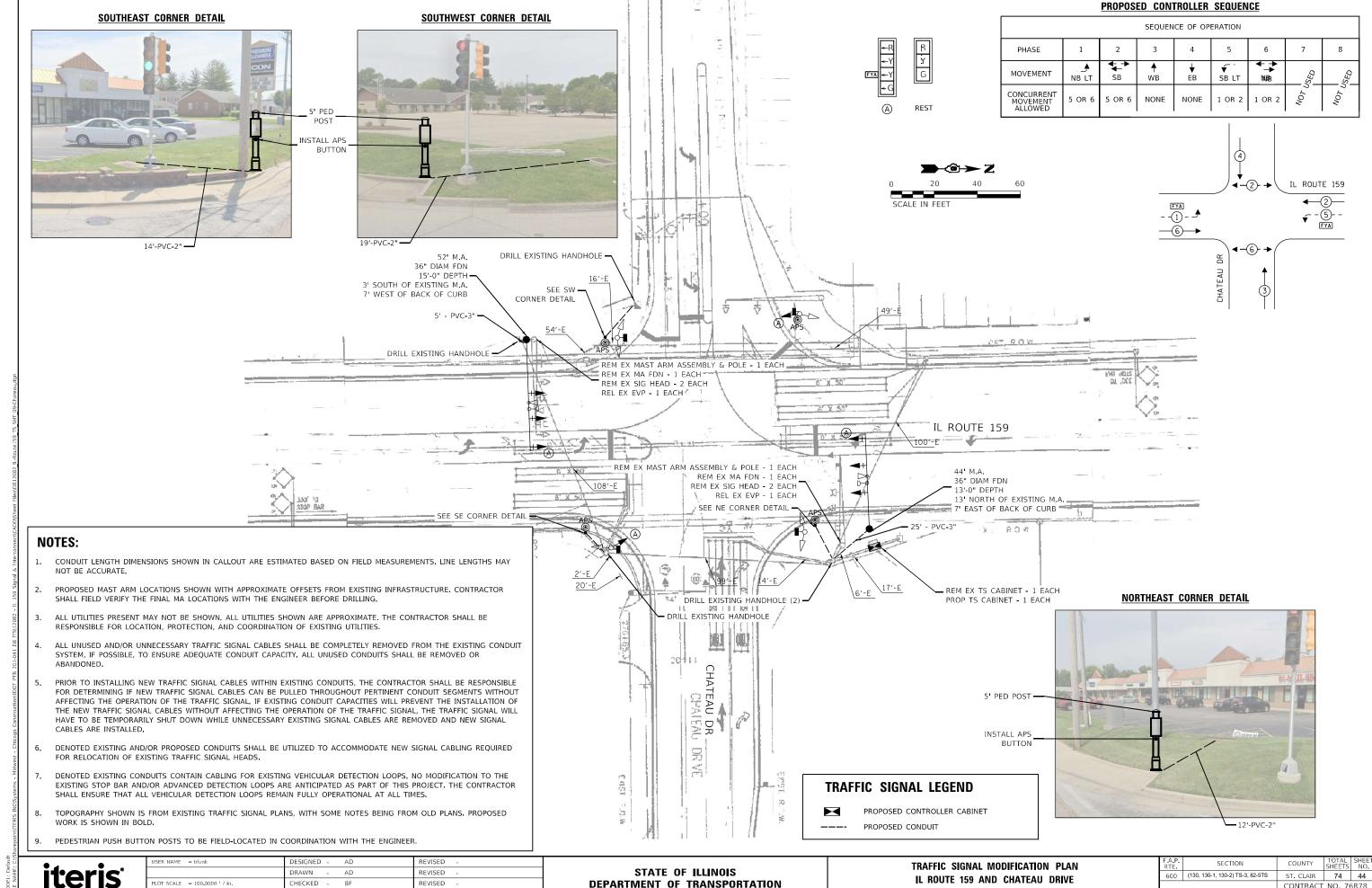


USER NAME = bfunk	DESIGNED -	BF	REVISED -
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PLOT SCALE = 100.0000 / in.	CHECKED -	AD	REVISED -
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

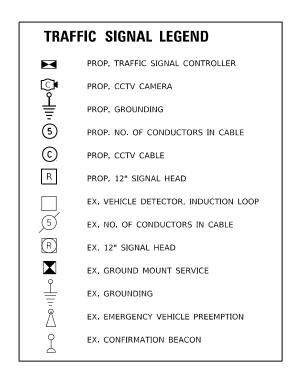
IL ROUT	E 159 AND	SOIL BO		LOGS RIVE / ASHLAND	AVENUE
	SHEET	OF	SHEETS	STA.	TO STA.

F.A.P. RTE	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
600	(130, 130-1, 130-2) TS-	3, 82	!-5TS	ST. CLAIR	74	43
				CONTRACT	NO. 76	5R78
	ILLIN	IOIS	FED. A	D PROJECT		



CONTRACT NO. 76R78

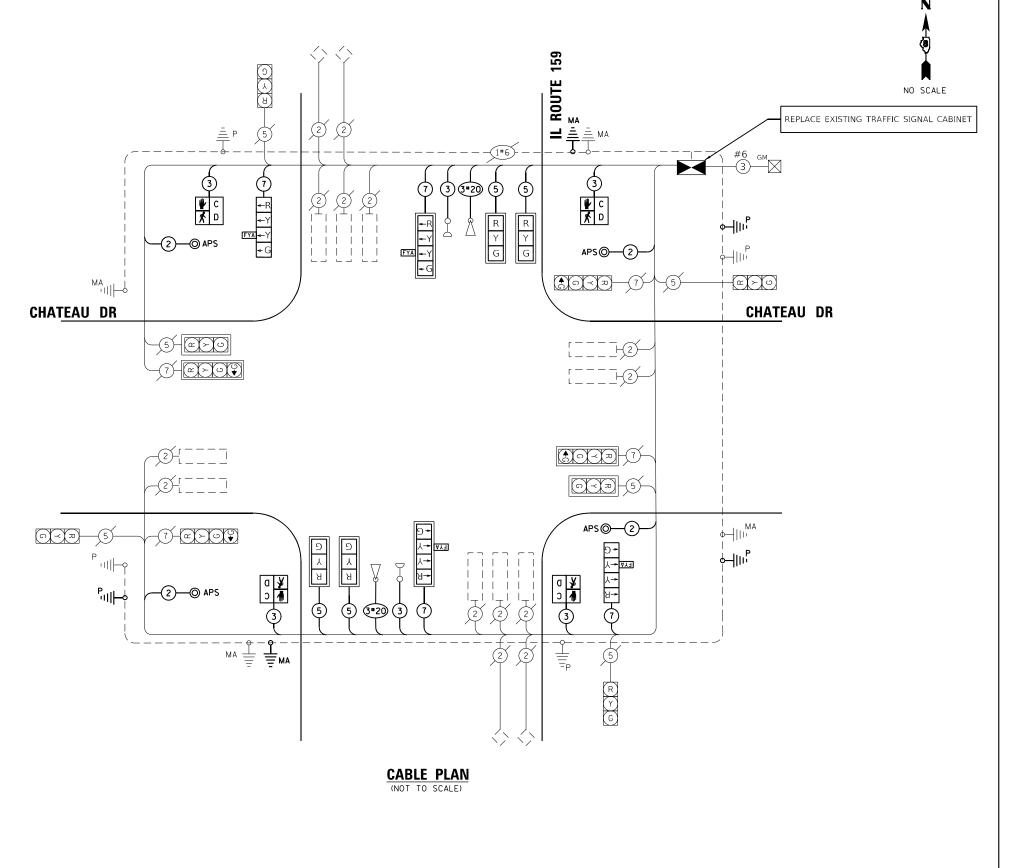
LOT DATE = 2/27/2024



### SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
SIGN PANEL - TYPE 1	SQ FT	30
RELOCATE SIGN PANEL - TYPE 1	SQ FT	22
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	45
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	30
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	753
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1179
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	838
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	811
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	250
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28
DRILL EXISTING HANDHOLE	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	500
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	419
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
PEDESTRIAN PUSH-BUTTON POST	EACH	3
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
* NOMINAL CHANTITY TO BE LISED AS NEEDED AND AS APPROVED BY ENGINEER		

\*NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY ENGINEER



**iteris**<sup>®</sup>

USER NAME = bfunk	DESIGNED - AD	REVISED -
	DRAWN - AD	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED - BF	REVISED -
PLOT DATE = 2/27/2024	DATE - 2/26/24	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SCALE:

Т	RAFFIC SIG	SNAL CA	BLE PL	AN		F.A.P. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
II R	IL ROUTE 159 AND CHATEAU DRIVE					600	(130, 130-1, 130-2	) TS-3, 82	-5TS	ST. CLAIR	74	45
IL III	JUIL 133 /	TIND CIT	AILAU	DIIIAE						CONTRACT	NO. 76	5R78
HEET	OF	SHEETS	STA.	7	O STA.			ILLINOIS	EED ΔI	D. PROJECT		



### **SOIL BORING LOG**

Page 1 of 1

Date 9/22/23

COUNTYSt. Clair DI	RILLING	) ME	THOD			IISA	HAMMER	TYPE	Auto
STRUCT. NOStationB-5 NE Station		D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. Stream Bed Elev. Groundwater Elev.: First Encounter	n/a n/a	_ ft _ ft	
Offset Ground Surface Elev. ft 100	ft	(ft)	(/6")	(tsf)	(%)	Upon Completion After Hrs.		_ ft _ ft	
Brown Silty Clay		1							
		_	2	2.75	20				
		_	5	P	20				
		$\equiv$							
		-	1						
			2	1.25 P	25				
		5	3						
	94.0		0						
pecomes Brownish Gray		-	1	0.50	33				
			1	Р					
			1	4.05	0.4				
		-10	2 2	1.05 B	31				
			WH						
			WH	(2000)	44				
		_	2	Р					
	86.5		132						
vet, soft, Gray Clayey Silt			1 2	1.75	48	-			
,,,,,	85.0	-15		P	,,,				
End of Boring		-							
-nv v. Donng									
		_							
		_							
						H			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



### **SOIL BORING LOG**

Page 1 of 1

Date 9/21/23

ROUTE FAP 600 (IL 159) DESCRI	PTION	٧			IL 15	9 & Chateau Drive		LOGGED BY	KEG - MTH
(130, 130-1, SECTION 130-2)TS-3	LO	CATI	ON _	, SEC.	, TWF	P. , RNG. , 3 PM			
COUNTY St. Clair DR	LLING	ME	THOD			HSA	HAMMER	TYPE	Auto
STRUCT. NO	_	DEP	B L O	U C S	M 0 1	Surface Water Elev. Stream Bed Elev.	n/a	ft ft	
BORING NO. B-6 SW Station Offset	_	H	S	Qu	S T	Upon Completion	n/a	ft	
Ground Surface Elev. ft 100  3.5" Asphalt		1	(/6")	(tsf)	(%)	After Hrs.		_ ft	
14" Concrete	98.5								
Brown Silty Clay w/ organics			2 3 4	2.75 P	17				
		_	1	0.25	29				
		-5		P	2.0				
	94.0		1						
Gray Clayey Silt, soft		_	2 2	0.75 P	29				
	91.0		WH	0.04	31				
becomes very soft		-10	4	B	31				
Dark Brown Clayey Silt w/	89.0	_	WH 2	1.75	63	5.			
organics	87.0	_	2	В					
becomes wet			1 2	0.74	35				
		<u>-15</u>	2	В					
	82.5	_	WH WH	0.52 B	29				
End of Boring	02.3	_							
		20		3					

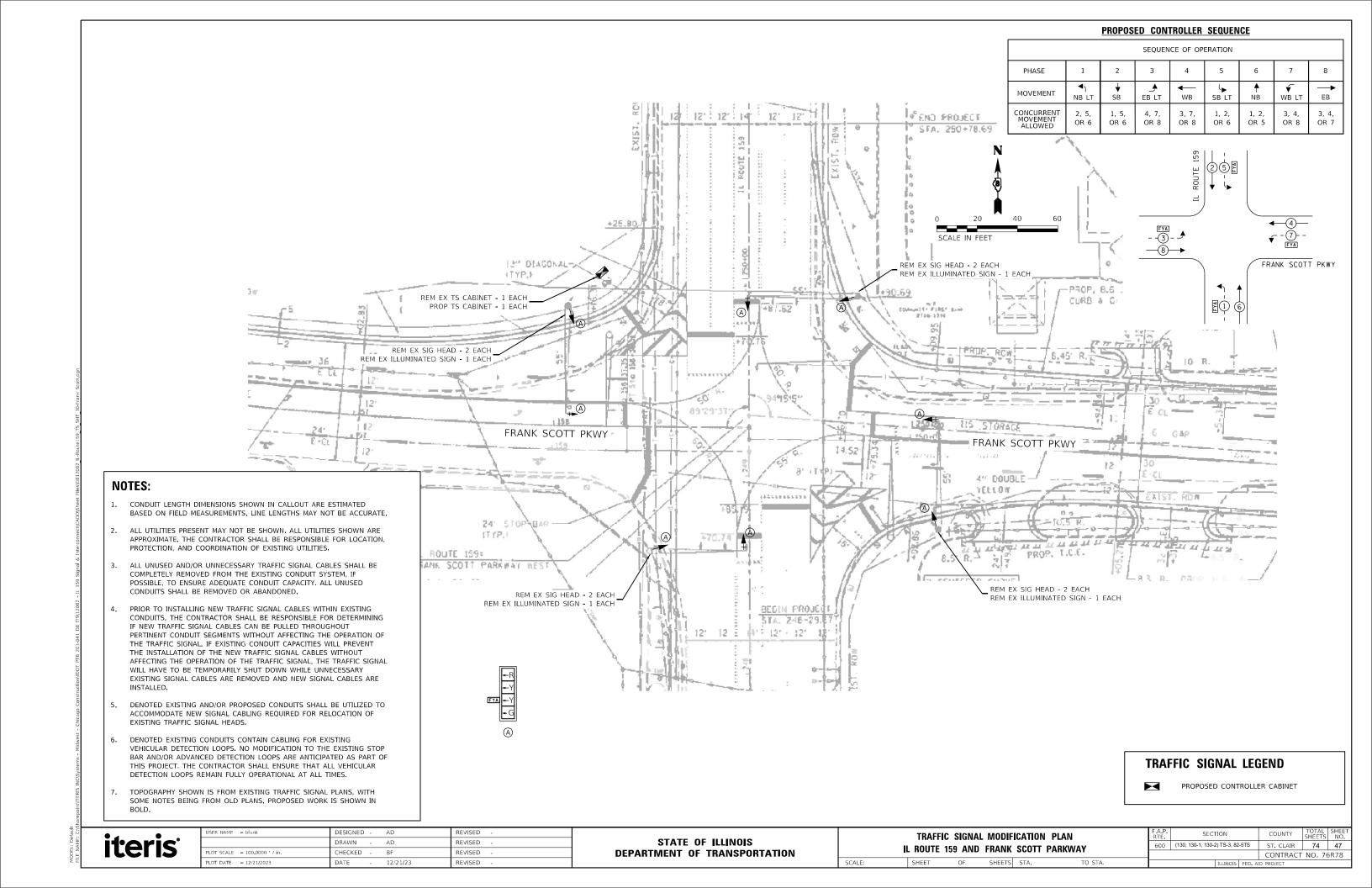
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

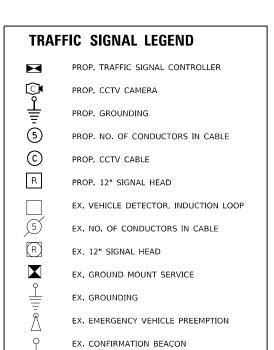
BBS, from 137 (Rev. 8-99) ኢ

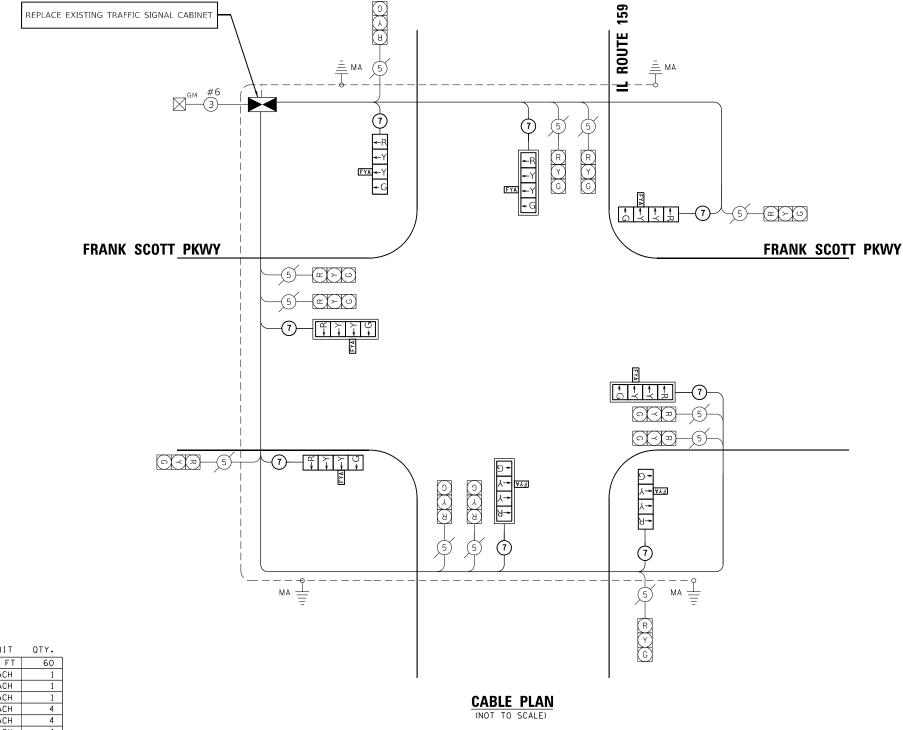


USER NAME = bfunk	DESIGNED -	BF	REVISED -
	DRAWN -	BF	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	AD	REVISED -
PLOT DATE = 12/21/2023	DATE -	11/10/23	REVISED -

	SOIL	BORING I	LOGS			F.A.P. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
II RA	UTE 159	AND CH	ΛΤΕΛΙΙ	DRIVE		600	(130, 130-1, 130-2	?) TS-3, 82	2-5TS	ST. CLAIR	74	46
L IIO	OIL 133	AND OIL	AILAU	DIIIAT						CONTRACT	NO. 76	5R78
ET	OF	SHEETS	STA.		TO STA.			ILLINOIS	FED. AI	D PROJECT		







NO SCALE

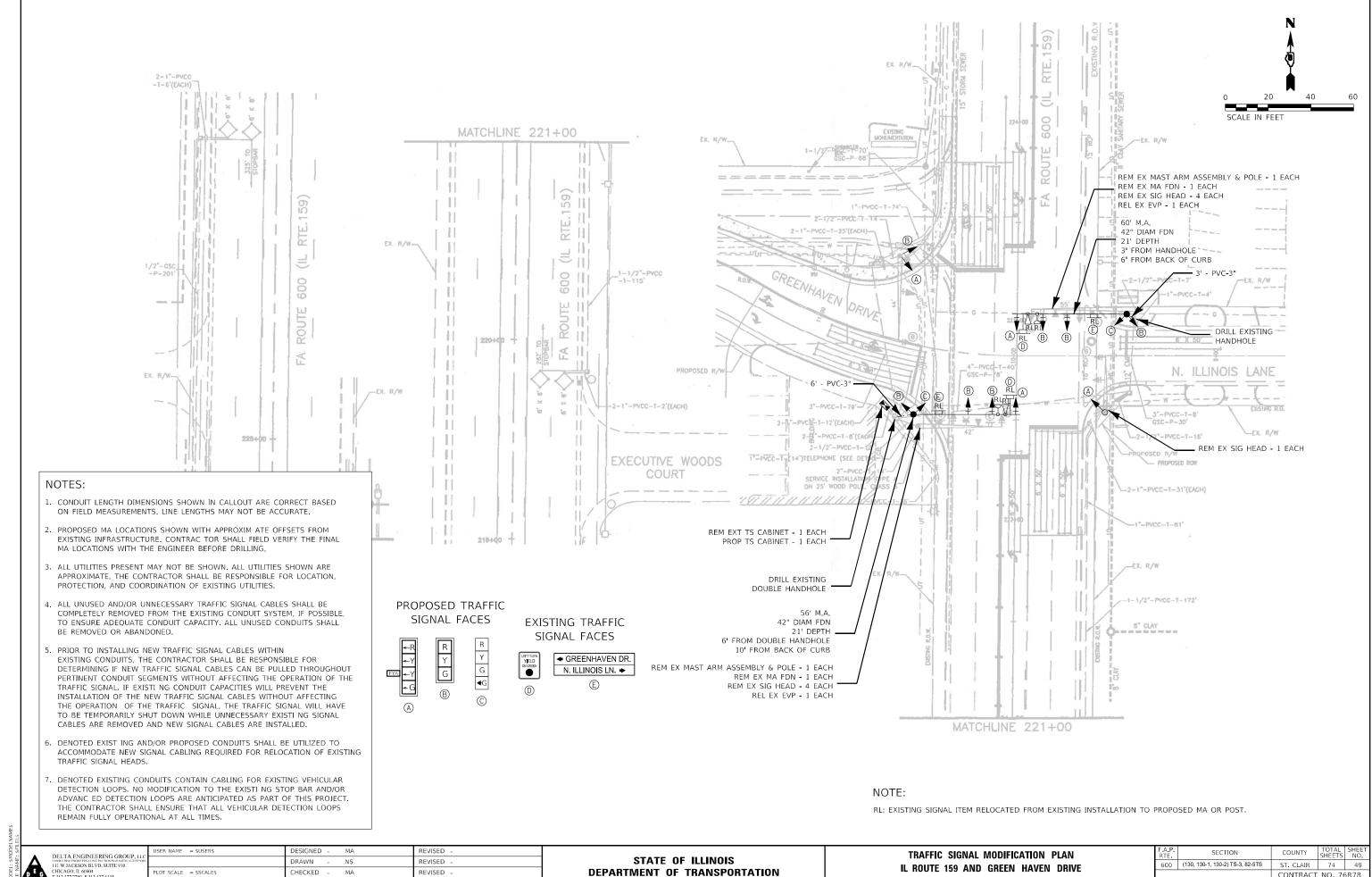
### SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
SIGN PANEL - TYPE 1	SQ FT	60
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	4
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

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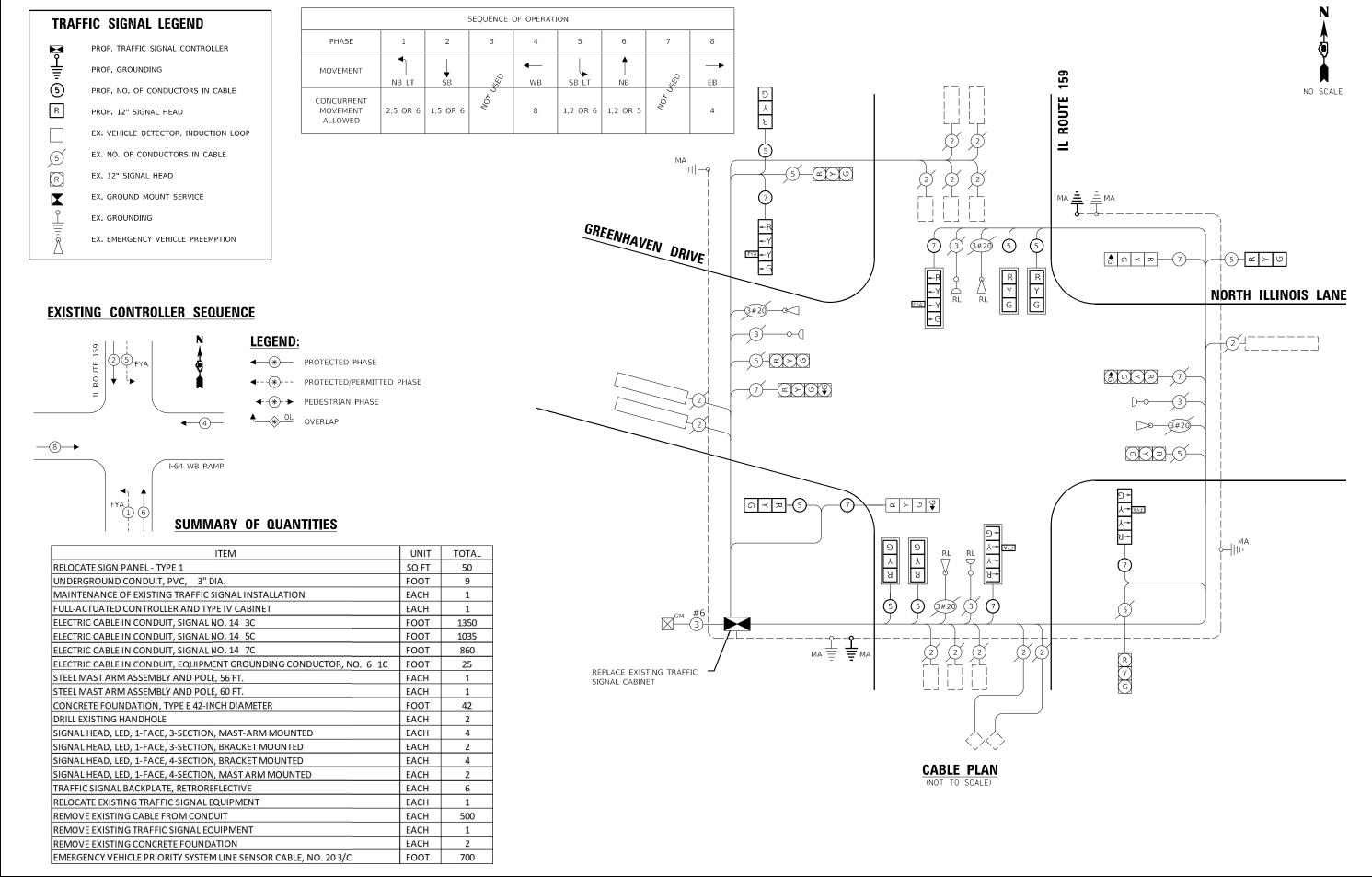
USER NAME = bfunk	DESIGNED - AD	REVISED -			TRAFFIC	c sig	NAL CABL	F PI AN		F.A.P BTE	SECTION	COUNTY	TOTAL
	DRAWN - AD	REVISED -	STATE OF ILLINOIS						NAMAN	600	(130, 130-1, 130-2) TS-3, 82-5TS	ST. CLAIR	74
PLOT SCALE = 100.0000 ' / in.	CHECKED - BF	REVISED -	DEPARTMENT OF TRANSPORTATION	IL KUU	IE 139 /	AND	FRANK SO	UII PAH	1KVVAY			CONTRAC	CT NO. 76
PLOT DATE = 2/27/2024	DATE - 2/24/24	REVISED -		SCALE: SHEET	OF	F	SHEETS ST	Α.	TO STA.		ILLINOIS FED. A	AID PROJECT	

FILE NAME: C:\Share;



SCALE: NTS

CONTRACT NO. 76R78



	USER NAME = \$USER\$	DESIGNED	-	MA	REVISED -
RS		DRAWN	-	NS	REVISED -
	PLOT SCALE = \$SCALE\$	CHECKED	-	MA	REVISED -
	PLOT DATE = \$DATE\$	DATE	-	03/01/2024	REVISED -

SCALE: NTS

TRAFFIC SIGNAL CA	BLE PLAN		F.A.P. RTE	SECTION	COUNTY
ROUTE 159 AND GREEN	HAVEN DRIVI	<b>-</b>	600	(130, 130-1, 130-2) TS-3, 82-5TS	ST. CLAII
HOUTE 135 AND GREEN	I IIAVLIV DIIIVI	<u> </u>			CONTRA
DEET OF CHEETC	STA	TO STA		TILINOIS SED A	ID DROJECT (

74 50

STRUCT. NO.   Station   D   B   L   C   O   P   O   S   I   T   W   Station   D   B   L   C   T   W   Station   D   Ft   (ft)	Illinois Depa of Transport	ation	nt 1		SC	OIL BORIN	G LOG			1	
SECTION   130-2)TS-3											
SECTION   130-2)TS-3   LOCATION   SEC. TWP., RNG., 3 PM		TION _		IL	159 8	& Green Haven Drive	LOGGE	ED BY	/ _K	EG - N	TN
STRUCT. NO.   Station	ECTION 130-2)TS-3	LOCAT	ION _	, SEC.	, TWF	P. , RNG. , 3 PM					
Station	OUNTY St. Clair DRIL	LING ME	ETHOD			HSA	HAMMER TYPE		A	uto	
Station Offset Ground Surface Elev. ft 100 ft (ft) (/6") (tsf) (%) After Hrs. ft (ft) (/6")  Brown hard Silty Clay	Station	E	L	С	0	Stream Bed Elev.	n/a ft	E	L O	U C S	
Brown hard Silty Clay  5 7 4.5 18 7 P as above 77.5 2 End of Boring  94.0 WH 1 1 2 0.61 25 -6 3 B 94.0 WH 1 1 1 1 1 2 0.61 25 -6 3 B 94.0 WH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Station	Н	S		Т	First Encounter Upon Completion	ft	Н	S	Qu	
5	Ground Surface Elev. R 100	π (11)	(/6 )	((51)	(70)	After Hrs.	π	(11)	(10)	(tsf)	1
7 4.5 18 as above 77.5 2  In as above 77.5 2  End of Boring  94.0 WH  94.0 VH  1 0.25 30 1 P  WH  WH  WH  WH  0.25 32 -10 1 P	rown hard Silty Clay	_						_			
7   P   as above   77.5   2		_		4.5	18	-				1.18	H
Brownish gray Sitty Clay moist, very soft     Continue of Boring   Conti		-			,,,	as above	77.5			В	
Brownish gray Silty Clay			-			End of Boring					
S   3   B     -25		_				L or Dorning		_			
94.0 WH  94.0 The state of the		_			25						
94.0 WH			5	- 0		-					
Brownish gray Silty Clay 1 0.25 30		94.0	WH								
WH 0.25 32	rownish gray Silty Clay	_	0.00(0.00)		30	-		-			
10	moist, very soft	_	1	Р		-					
10		-				E		_			
10		-		0.25	32			_			
becomes moist, stiff 2 0.92 27 1 B		-16	-	1777	32			-30			
becomes moist, stiff		-									
becomes moist, stiff  2 0.92 27 1 B		ō9.U						_			
	ecomes moist, stiff				27			_			
7, 1		_				-		_			
		-	1					_			
2 1.31 28			2		28	1		_			
15 2 B35			5 2	В		-		-35			
84.5		84.5									
becomes wet	ecomes wet			1.5	28	-					
		-	1 .		20			_			
82.0		82.0	-					_			
Gray Silty Clay, med stiff 81.0 1	iray Silty Clay, med stiff	81.0						_			
1 1.18 26 20 2 B			1	1.18	26						

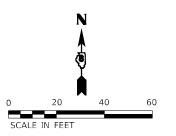
SOIL BORING NO. 1

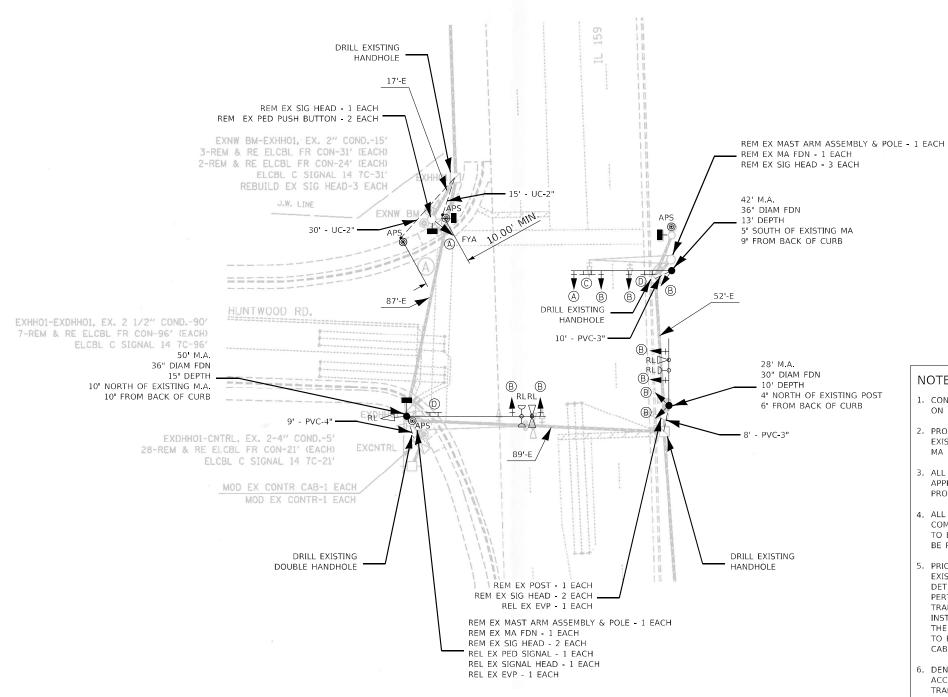
A

NGINEERING GROUP, LLC	USER NAME = \$USER\$	DESIGNED - MA	REVISED -	Г
INCHINEER HING GROUP, LEC- INFERS, CONSTRUCTION MANAGERS, SERVEYORS SON BLVD, SUITE 910		DRAWN - NS	REVISED -	ı
L 60604 00, F 312.427 6145	PLOT SCALE = \$SCALE\$	CHECKED - MA	REVISED -	ĺ
00,1 312.427 0143	PLOT DATE = \$DATE\$	DATE - 03/01/2024	REVISED -	

SCALE: NTS

	SOIL BORING						F.A.P. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
IL ROUTE 159 AND GREEN HAVEN DRIVE					600	(130, 130-1, 130-2	2) TS-3, 82	2-5TS	ST. CLAIR	74	51	
IL HOUTE	133 AIVE	GILLIN	IIAVLIV	DIIIVL						CONTRAC	NO. 76	5R78
SHEET	OF	SHEETS	STA.		TO STA.			ILLINOIS	EED ΔΙ	D PROJECT CMA	O-HSIP-445N	V (249)



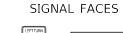


RL: EXISTING SIGNAL ITEM RELOCATED FROM EXISTING INSTALLATION TO PROPOSED MA OR POST.

SCALE: NTS

#### PROPOSED TRAFFIC SIGNAL FACES

 $\bigcirc$ 







EXISTING TRAFFIC

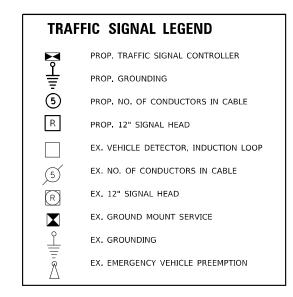
#### NOTES:

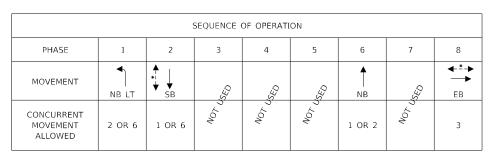
- 1. CONDUIT LENGTH DIMENSIONS SHOWN IN CALLOUT ARE CORRECT BASED ON FIELD MEASUREMENTS. LINE LENGTHS MAY NOT BE ACCURATE.
- 2. PROPOSED MA LOCATIONS SHOWN WITH APPROXIM ATE OFFSETS FROM EXISTING INFRASTRUCTURE. CONTRAC TOR SHALL FIELD VERIFY THE FINAL MA LOCATIONS WITH THE ENGINEER BEFORE DRILLING.
- 3. ALL UTILITIES PRESENT MAY NOT BE SHOWN. ALL UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION, PROTECTION, AND COORDINATION OF EXISTING UTILITIES.
- 4. ALL UNUSED AND/OR UNNECESSARY TRAFFIC SIGNAL CABLES SHALL BE COMPLETELY REMOVED FROM THE EXISTING CONDUIT SYSTEM, IF POSSIBLE, TO ENSURE ADEQUATE CONDUIT CAPACITY. ALL UNUSED CONDUITS SHALL BE REMOVED OR ABANDONED.
- 5. PRIOR TO INSTALLING NEW TRAFFIC SIGNAL CABLES WITHIN EXISTING CONDUITS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING IF NEW TRAFFIC SIGNAL CABLES CAN BE PULLED THROUGHOUT PERTINENT CONDUIT SEGMENTS WITHOUT AFFECTING THE OPERATION OF THE TRAFFIC SIGNAL. IF EXISTI NG CONDUIT CAPACITIES WILL PREVENT THE INSTALLATION OF THE NEW TRAFFIC SIGNAL CABLES WITHOUT AFFECTING THE OPERATION OF THE TRAFFIC SIGNAL, THE TRAFFIC SIGNAL WILL HAVE TO BE TEMPORARILY SHUT DOWN WHILE UNNECESSARY EXISTI NG SIGNAL CABLES ARE REMOVED AND NEW SIGNAL CABLES ARE INSTALLED.
- 6. DENOTED EXIST ING AND/OR PROPOSED CONDUITS SHALL BE UTILIZED TO ACCOMMODATE NEW SIGNAL CABLING REQUIRED FOR RELOCATION OF EXISTING TRAFFIC SIGNAL HEADS.
- 7. DENOTED EXISTING CONDUITS CONTAIN CABLING FOR EXISTING VEHICULAR DETECTION LOOPS. NO MODIFICATION TO THE EXISTI NG STOP BAR AND/OR ADVANC ED DETECTION LOOPS ARE ANTICIPATED AS PART OF THIS PROJECT. THE CONTRACTOR SHALL ENSURE THAT ALL VEHICULAR DETECTION LOOPS REMAIN FULLY OPERATIONAL AT ALL TIMES.

	D cc 11 Cl T

ENGINEERING GROUP, LLC	USER NAME = \$USER\$	DESIGNED - MA	REVISED -
NGINEERING GROUP, LLC NGINEERS, CONSTRUCTION MANAGERS, SURVEYORS CKSON BLVD, SUITE 910		DRAWN - NS	REVISED -
, IL 60604 7700, F 312,427 6145	PLOT SCALE = \$SCALE\$	CHECKED - MA	REVISED -
7700,1 312.427 0143	PLOT DATE = \$DATE\$	DATE - 03/01/2024	REVISED -

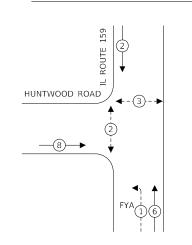
F.A.P. RTE	SECTION		COUNT	Υ	TOTAL SHEETS	SHEE NO.
600	(130, 130-1, 130-2) TS-3, 82-	ST. CLA	ΔIR	74	52	
			CONTR	ACT	NO. 70	5R78
	ILLINOIS	FFD. A	ID PROJECT	CMAC	-HSIP-4451	VI (249)





\* PEDESTRIAN MOVEMENT DISPLAYED UPON ACTIVATION ONLY

### **EXISTING CONTROLLER SEQUENCE**



### **LEGEND**:

**◆ PROTECTED PHASE** 

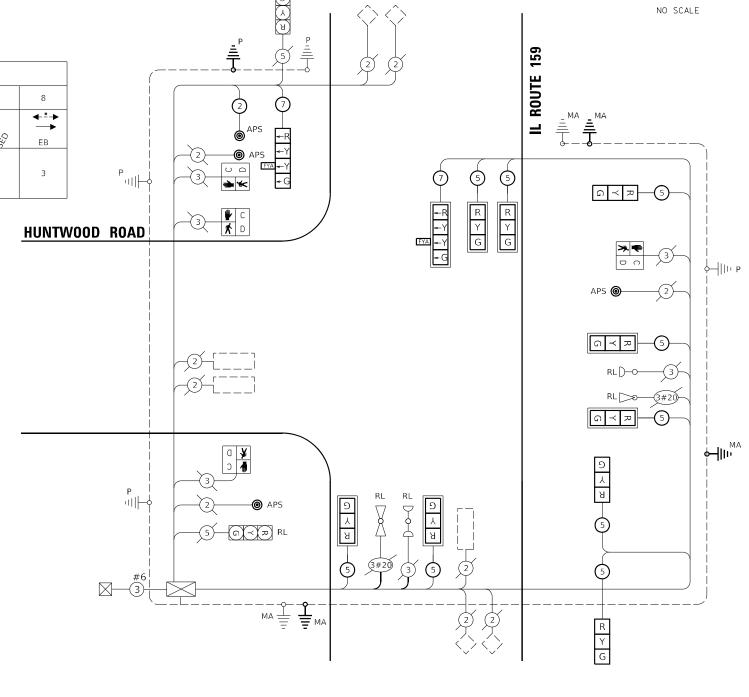
**◆**--**\***--- PROTECTED/PERMITTED PHASE

◆-(\*)- → PEDESTRIAN PHASE

OL OVERLAP

#### **SUMMARY OF QUANTITIES**

ITEM	UNIT	TOTAL
RELOCATE SIGN PANEL - TYPE 1	SQ FT	25
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	45
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	30
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	340
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	510
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1370
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	390
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	125
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
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	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	7
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CABLE FROM CONDUIT	EACH	500
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	155
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
PEDESTRIAN PUSH-BUTTON POST	EACH	2
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	24



CABLE PLAN
(NOT TO SCALE)

	DELTA ENGREERING CROUP	U
Δ	DELTA ENGINEERING GROUP, LLC CONSULTING PROINFERS, CONSTRUCTION MANAGERS, SURVEYORS 111 W JACKSON BLVD, SUITE 910	
ΔEA	CHICAGO, IL 60604 T 312.377.7700, F 312.427 6145	Р
	1 312.371.7700,1 312.427 0143	-

	USER NAME = \$USER\$	DESIGNED	-	MA	REVISED -
, LLC VEYORS		DRAWN	-	NS	REVISED -
	PLOT SCALE = \$SCALE\$	CHECKED	-	MA	REVISED -
	PLOT DATE = \$DATE\$	DATE	-	03/01/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	TRAI	FFIC S	IGNAL CA	ABLE PLAN		F.A.P. RTE	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
	II BOLITE	150 /	лип нил	ITWOOD R	OΛD	600	(130, 130-1, 130-	2) TS-3, 82	2-5TS	ST. CLAIR	74	53
	IL HOUTE	. 133 /	יוטוו טווי	II WOOD II	UAD					CONTRACT	NO. 76	5R78
SCALE: NTS	SHEET	OF	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	D PROJECT CMA	O-HSIP-4451	N (249)

Illinois Departi	me ion	nt I		SC	OIL BORING LOG
Division of Highways Illinois Department of Transportation  ROUTE FAP 600 DESCRIPTIO	N		ffic Siç		t IL 159 and Huntwood Rd in Swansea LOGGED BY L. Ford
SECTION 130TS-2 LC	CAT	ION _	N 1/2,	SEC.	9, TWP. 1N, RNG. 8W, 3 PM
COUNTY St. Clair DRILLING	G ME	THOD	_	,	Hand Auger HAMMER TYPE
STRUCT. NO.   Station	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev. ft Stream Bed Elev. ft  Groundwater Elev.: ft First Encounter ft
Ground Surface Elev. 571.2 ft	(ft)	(/6")	(tsf)	(%)	Upon Completion ft After Hrs ft
Brown Silty CLAY	_		2.5	10	
	_		3.5	11	
	_		4.5	14	
	_		4.5	14	
	-5		4.5+	13	
565.2	_		3.5	15	
Brown and Gray Silty CLAY			3.7	16	
563.2			3.2	15	
Gray Silty CLAY (Smells Organic) (Tree Roots and Wood)			3.3	16	
(Tree Roots and Wood)	-10		3.3	16	
	_		2.0	17	
	_		1.0	18	
558.2	-		1.5	19	
END OF BORING	_				
	15				
	_				
	_				
	_				
	-20				

SOIL BORING No. 1

Illinois Department of Transportation Page 1 of 1 **SOIL BORING LOG** Date 9/13/88 Traffic Signals at IL 159 and Huntwood Rd in ROUTE FAP 600 DESCRIPTION LOGGED BY \_\_\_\_L. Ford SECTION 130TS-2 LOCATION N 1/2, SEC. 9, TWP. 1N, RNG. 8W, 3 PM St. Clair DRILLING METHOD D B U M E L C O P O S I T W S H S Qu T 1.3 9 Brown Silty CLAY with Rock 2.0 9 3.0 9 4.5+ 10 4.5+ 10 3.0 13 2.0 18 Gray Silty CLAY (with Tree Roots) (Smells Organic) 2.5 18 2.0 18 2.0 18 2.0 18 Brown and Gray Silty CLAY (with Some Roots) 2.2 17 2.5 16 END OF BORING Qu values determined by pocket pentrometer The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

SOIL BORING No. 2

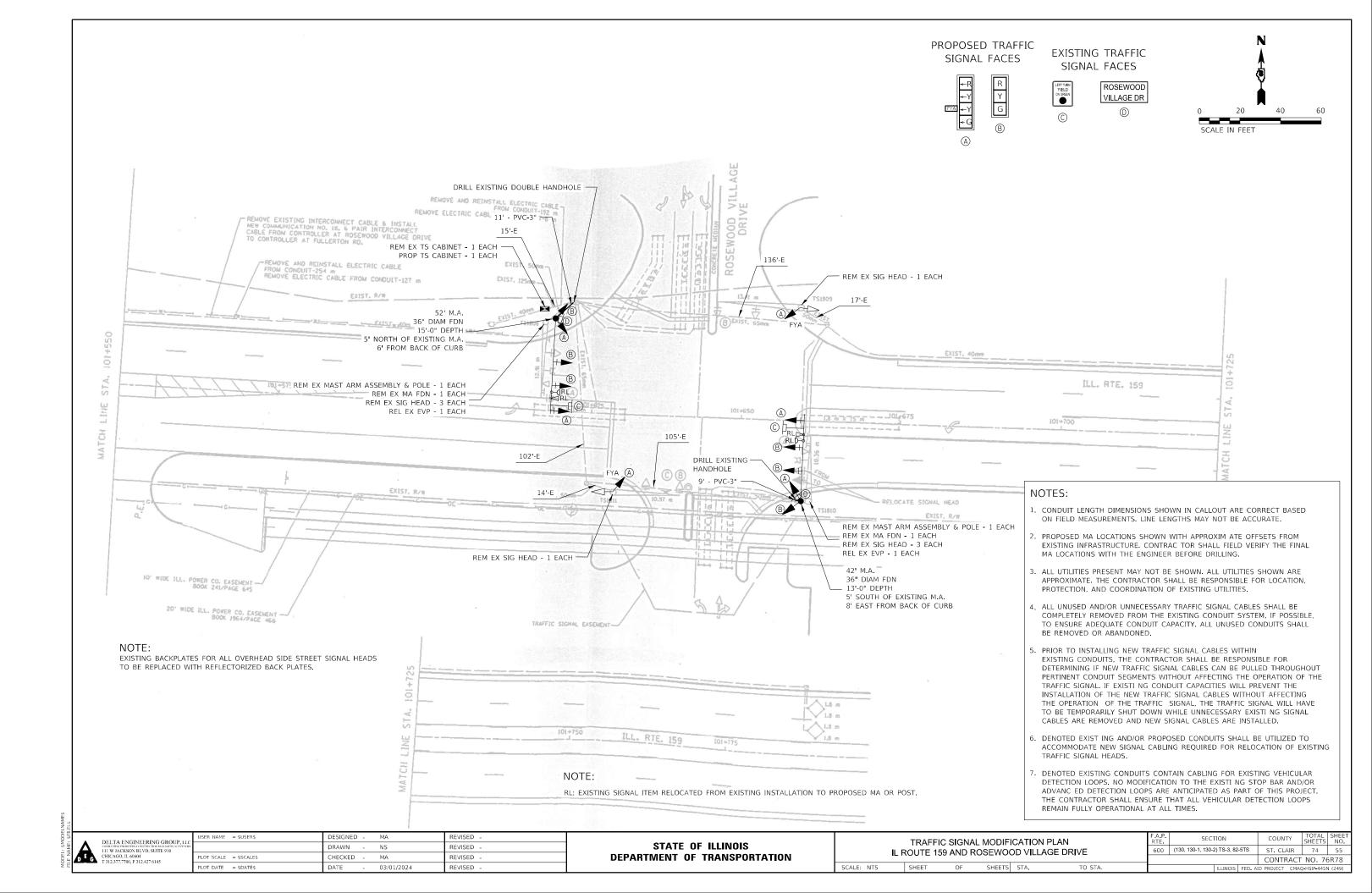
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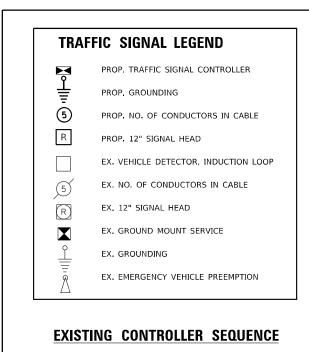
A ENGINEERING GROUP, LLC	USER NAME = \$USER\$	DESIGNED - MA	REVISED -	
NG ENGINEERS, CONSTRUCTION MANAGERS, SERVEYORS JACKSON BLVD, SUITE 910		DRAWN - NS	REVISED -	
GO, IL 60604 77,7700, F 312,427 6145	PLOT SCALE = \$SCALE\$	CHECKED - MA	REVISED -	
77,7700,1 312,427 0143	PLOT DATE = \$DATE\$	DATE - 03/01/2024	REVISED -	

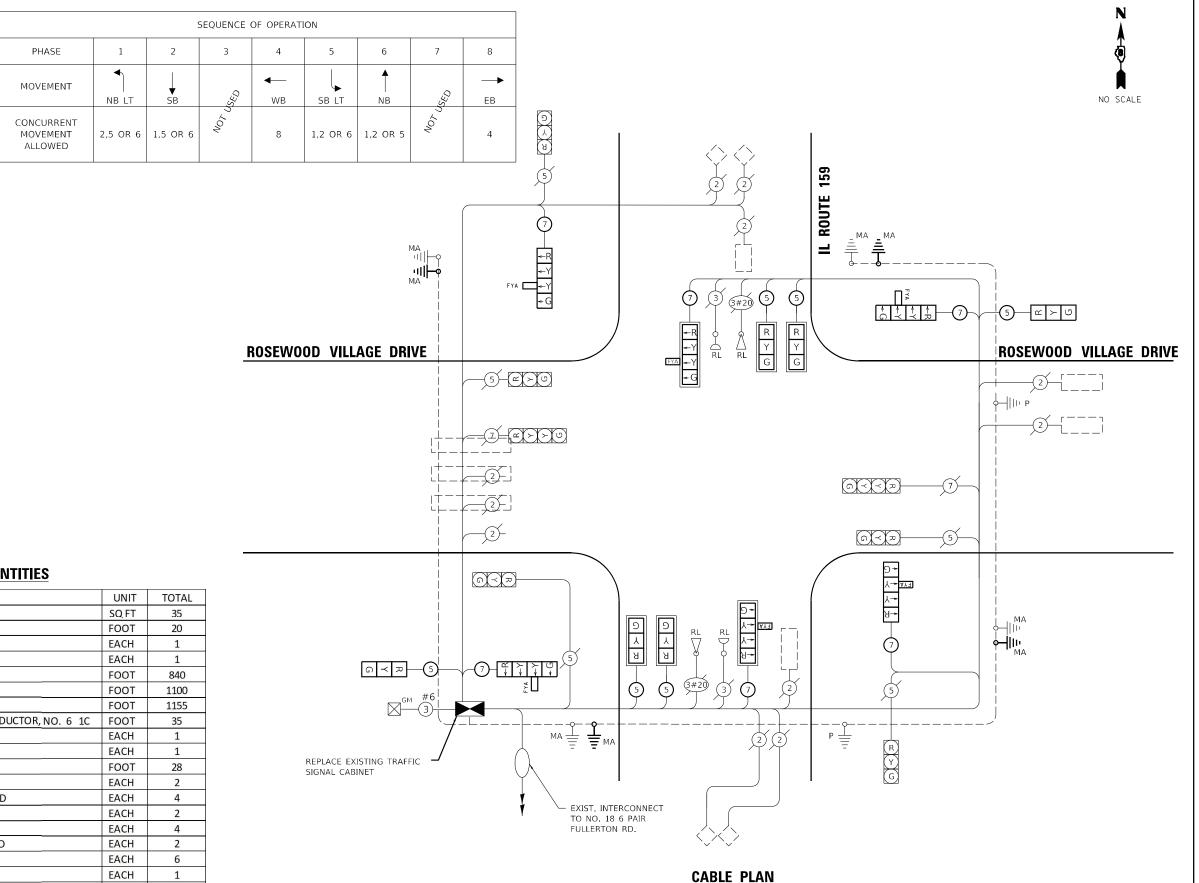
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NTS

	S	OIL BORIN	IG		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEE'
II BOLITE	150	AND HUN	ITWOOD	ROAD	600	(130, 130-1, 130-2) TS-3, 82-5TS	ST. CLAIR	74	54
IL HOUTE	. 133	AND HOL	11 44000	, IIOAD			CONTRACT	NO. 76	6R78
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED	D. AID PROJECT CMAC	Q-HSIP-4451	N (249)







# SUMMARY OF QUANTITIES ITEM

ROSEWOOD VILLAGE DR

4-4-

ITEM	UNIT	TOTAL
RELOCATE SIGN PANEL - TYPE 1	SQ FT	35
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	20
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	840
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1100
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1155
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	35
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CABLE FROM CONDUIT	EACH	500
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	815

UP, llc	USER NAME = \$USER\$	DESIGNED -	MA	REVISED -
SERVEYORS		DRAWN -	NS	REVISED -
	PLOT SCALE = \$SCALE\$	CHECKED -	MA	REVISED -
	PLOT DATE = \$DATE\$	DATE -	03/01/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

 TRAFFIC SIGNAL CABLE PLAN
 F.A.P. RTE.
 SECTION
 COUNTY SHEETS
 TOTAL SHEETS NO.

 IL ROUTE 159 AND ROSEWOOD VILLAGE DRIVE
 600 (130, 130-1, 130-2) TS-3, 82-5TS
 ST. CLAIR 74 56
 74 56

 SHEET OF SHEETS STA. TO STA.
 TO STA.
 ILLINOIS FED. AID PROJECT CMAQ-HSIN-445N (249)

(NOT TO SCALE)

Illinois Depar of Transporta Division of Highways Illinois Department of Transportation	tme	nt		SC	OIL BORIN	G LOG	Page 1 of
			11 41		N	100050	Date9/22/
ROUTE FAP 600 (IL 159) DESCRIPTI (130, 130-1, SECTION 130-2)TS-3					P. , RNG. , 3 PM	LOGGED	BY KEG-MI
COUNTY St. Clair DRILLI					HSA	HAMMER TYPE	Auto
STRUCT. NO	D E P	B L O	U C S	M	Surface Water Elev Stream Bed Elev	n/a ft	
BORING NO. B-8 NE Station Offset	Н	w s	Qu	S	Groundwater Elev.: First Encounter Upon Completion	n/a_ft	
are repries	ft (ft) 9.8 9.0	(/6")	(tsf)	(%)	After Hrs.	ft	
Brown Clayey Silt, hard		4 10 9	4.5 P	17			
9	6.5	1					
Brown Silty Clay	-5	2 4	1.5 P	22			
	=	1					
	_	3	0.61 S	23			
	_	1	1.75	21			
	-10	3	Р		-		
	_	3 3	2.25 P	18			
as above	7.0	1			-		
	5.0 -15	3	2.75 P	19			
End of Boring	=						
	_						
	_						
	-20						

SOIL BORING No. 1 **SOIL BORING No. 2** 

JSER NAME = \$USER\$ DESIGNED -REVISED -DELTA ENGINEERING GROUP, L CONSULTING PROBSERS, CONSTRUCTION MON SOFTS, SLEWER 111 W JACKSON BLVD, SUITE 910 CHICAGO, II. 60604 T 312.377.7700, F 312.427 6145 DRAWN NS REVISED -LOT SCALE = \$SCALE\$ CHECKED MA REVISED -PLOT DATE = \$DATE\$ REVISED -DATE 03/01/2024

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SECTION COUNTY **SOIL BORING** 600 (130, 130-1, 130-2) TS-3, 82-5TS ST. CLAIR 74 57 IL ROUTE 159 AND ROSEWOOD VILLAGE DRIVE CONTRACT NO. 76R78 SCALE: NTS OF SHEETS STA.

D B U M E L C O P O S I T W S H S Qu T Surface Water Elev. STRUCT, NO. Stream Bed Elev. BORING NO. Groundwater Elev.: First Encounter Offset Upon Completion After \_\_\_\_ Hrs. Ground Surface Elev. ft 100 ft (ft) (/6") (tsf) (%) 2.5" Asphalt 8.5" Concrete Brown Silt 3 1.25 17 -5 4 P 2 1.25 22 2 P 91.0 1 2 1.25 22 .10 3 P as above 1 1.18 21 -15 2 B Brown Clayey Silt 1 2 1.4 20 82.5 4 B Brown Silty Clay

**SOIL BORING LOG** 

IL 159 & Rosewood Village Drive

LOCATION \_\_\_, SEC. , TWP. , RNG. , 3 PM

Illinois Department of Transportation

DRILLING METHOD

ROUTE FAP 600 (IL 159) DESCRIPTION

St. Clair

COUNTY

End of Boring

(130, 130-1, 130-2)TS-3

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

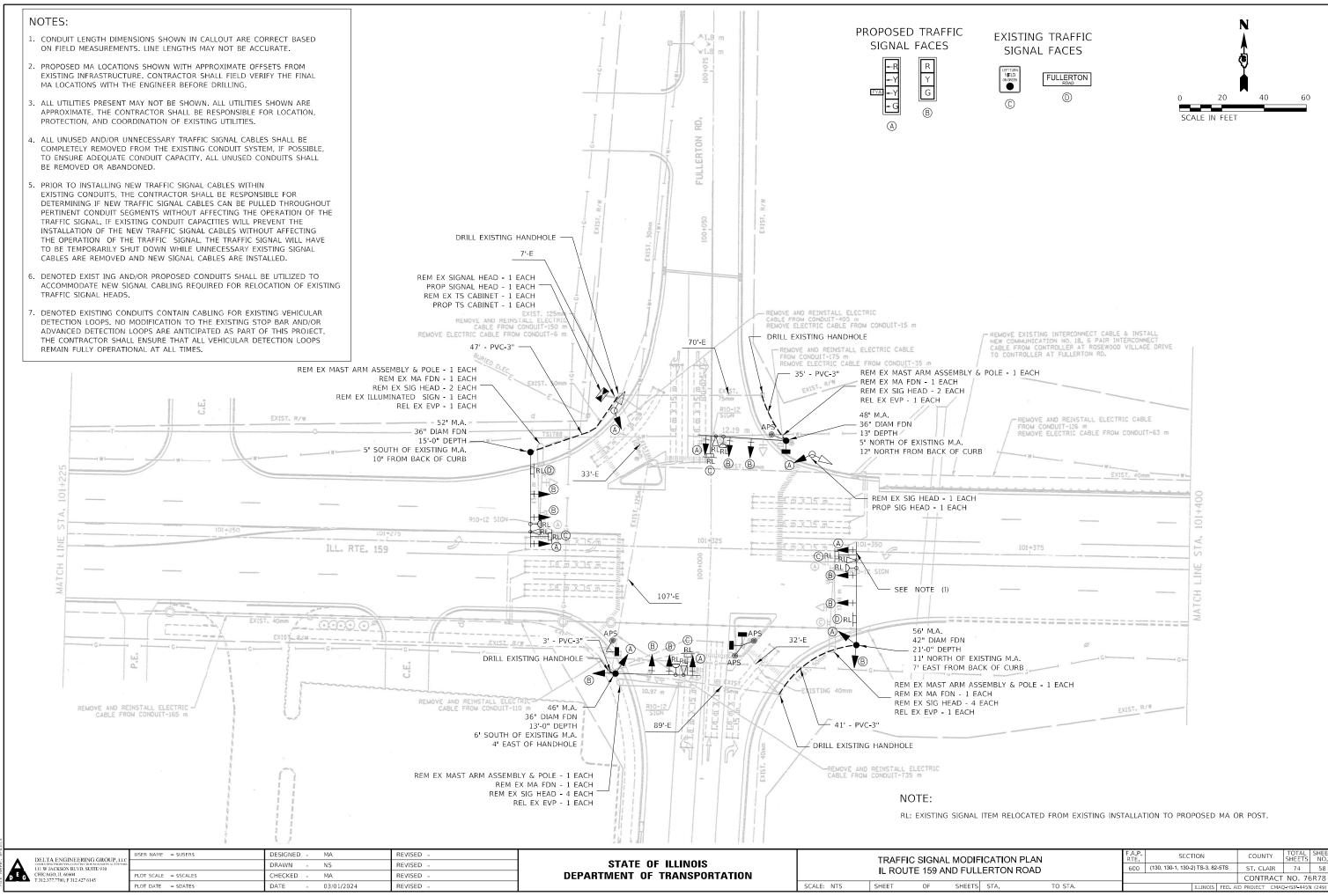
BBS, from 137 (Rev. 8-99)

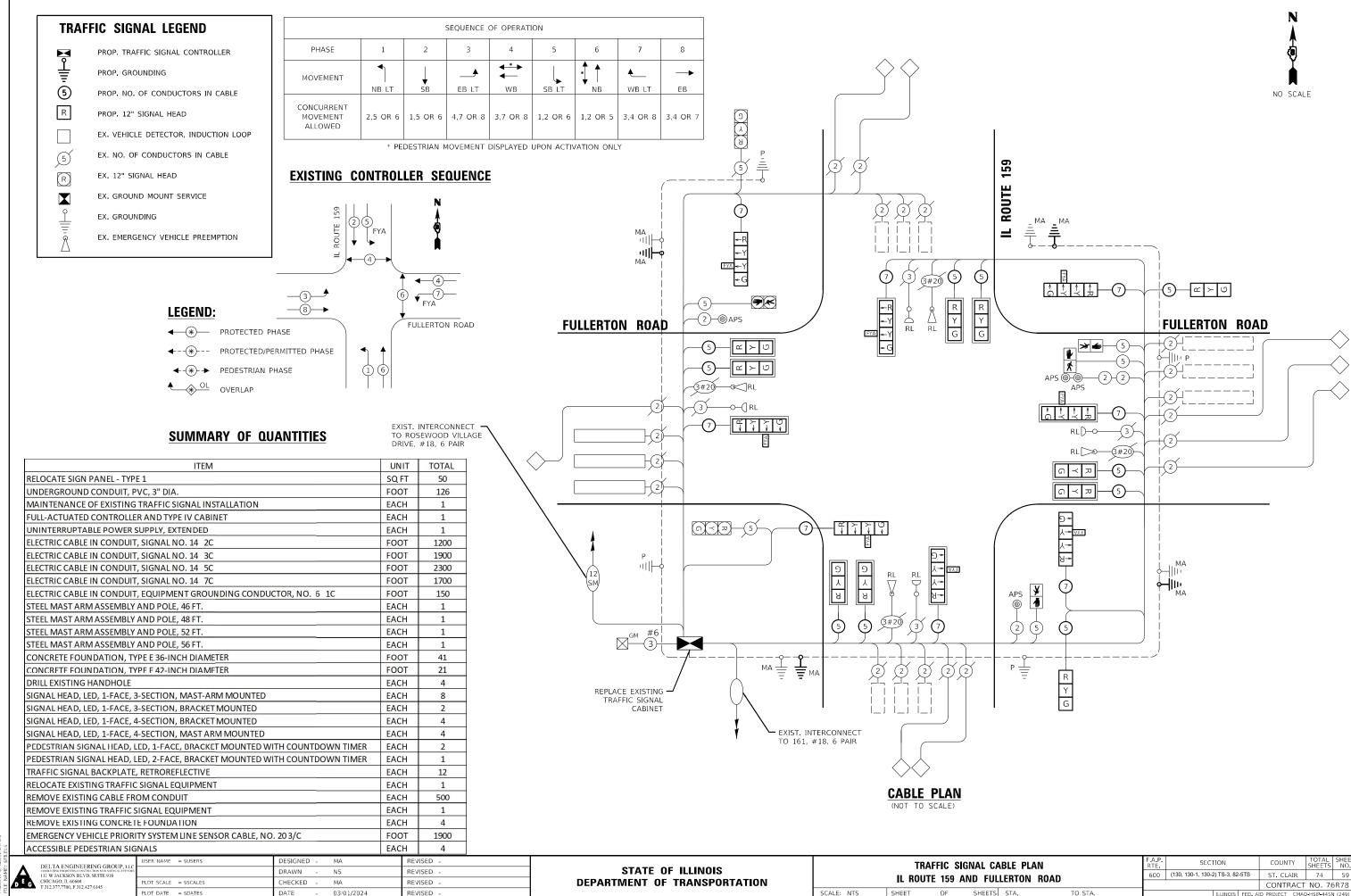
Page 1 of 1

Date \_\_9/22/23

LOGGED BY KEG - MTH

HAMMER TYPE





TRUCT. NO DRILLING METH	N NE	Signals	OIL BORING LOC at IL 159 and Fullerton Rd in Swansea	LOGGED B		_ 5/1	4/86
OUTE         FAP 600         DESCRIPTION           ECTION         130TS-1         LOCATIO           OUNTY         St. Clair         DRILLING METH           TRUCT. NO.         E           P         P	N NE			LOGGED B			
TRUCT. NO DRILLING METH	HOD _	1/4, SEC			Υ	J. Kin	g
TRUCT. NO D E			C. 16, TWP. 1N, RNG. 8W, 3 PM				
Station E			Hand Auger HAMMER	TYPE		_	
ORING NO. 1 Station 99+48 Offset 43.00ft L Ground Surface Elev. 532.5 ft (ft) (	U S Q		Surface Water Elev. Stream Bed Elev.  Groundwater Elev.: First Encounter Upon Completion After Hrs.	ft E P T H ft ft (ft)	B L O W S	U C S Qu (tsf)	M O I S T (%)
			Qu values determined by pocket pentrometer		,		
rown and Gray SILT (FILL)	1.	.0 17	permoneter				
				_			
	1	.0 19					
-5		Ì		-25			
	1.	.0 22		_			
				_			
524.5	_	-		_			
ray and Brown SILT	0.7	75 26		_			
				_			
10.		75 24		30			
	0.4	75 24		_			
519.5	1.	.5 19					
own and Gray Clay TILL							
15				35			
516.5							
ND OF BORING				_			
OTE: ue to the terrain and utilities in	-			_			
e area, hand augerd borings ere made. Therefore, no "N"				_			
lues are available.				-40			

SOIL BORING No. 1

**SOIL BORING No. 2** 

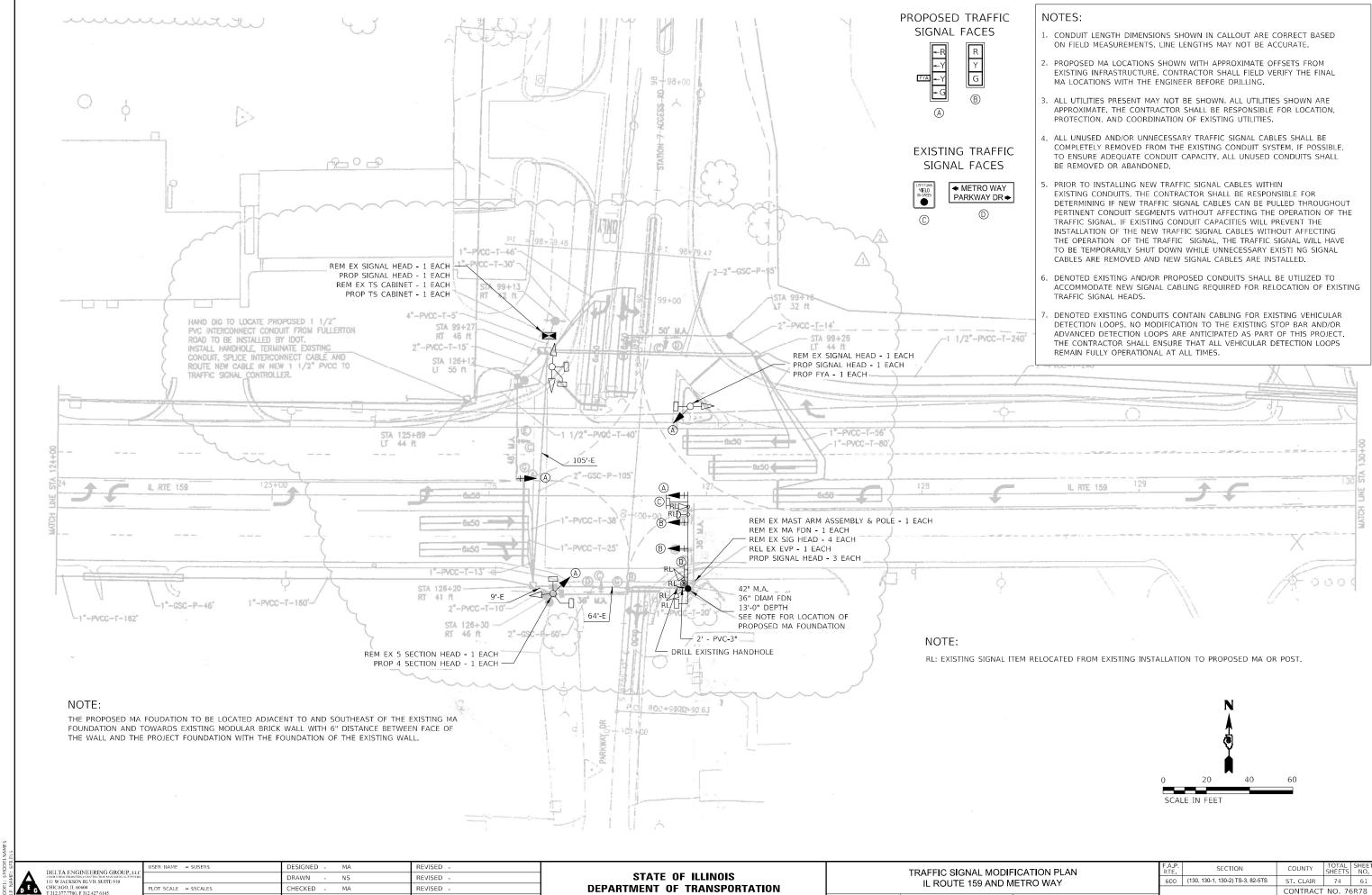
Illinois Department of Transportation Page 1 of 1 **SOIL BORING LOG** Date 5/14/86 Traffic Signals at IL 159 and Fullerton Rd in ROUTE FAP 600 DESCRIPTION LOGGED BY \_\_\_\_\_ J. King Swansea 130TS-1 LOCATION NE 1/4, SEC. 16, TWP. 1N, RNG. 8W, 3 PM SECTION St. Clair DRILLING METHOD Hand Auger COUNTY D B U M E L C O P O S I T W S Qu T M 0 STRUCT. NO. Surface Water Elev. L C S W S Qu Station 99+48 H S Qu T First Encounter Upon Completion After Hrs.

Brown and Grove Cliff (Station 1) After Hrs. BORING NO. \_\_\_\_ Station \_\_\_\_ Offset \_\_\_\_ (ft) (/6") (tsf) (%) Qu values determined by pocket Brown and Gray SILT (FILL) 1.0 19 0.75 26 Gray and Brown SILT 0.75 24 519.5 Brown and Gray Clay TILL END OF BORING Due to the terrain and utilities in the area, hand augerd borings were made. Therefore, no "N" values are available. The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

EERING GROUP, LLC	USER NAME = \$USER\$	DESIGNED -	MA	REVISED -
LVD, SUITE 910		DRAWN -	NS	REVISED -
4 12,427 6145	PLOT SCALE = \$SCALE\$	CHECKED -	MA	REVISED -
12,42) 0143	PLOT DATE = \$DATE\$	DATE -	03/01/2024	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

		SC	OIL BORIN	IG		F.A.P. RTE	SEC.	TION		COUNTY	TOTAL SHEETS	SHEET NO.
	II BUII	TF 150	AND FUL	I FRTON	ROAD	600	(130, 130-1, 130-	2) TS-3, 82	-5TS	ST. CLAIR	74	60
	IL 1100	IL 133	AND I UL	LLITTOIN	IIOAD					CONTRACT	NO. 76	6R78
SCALE: NTS	SHEET	OF	SHEETS	STA.	TO STA.			ILLINOIS	FED. AI	ID PROJECT CMA	Q-HSIP-4451	N (249)



OF SHEETS STA.

TO STA.

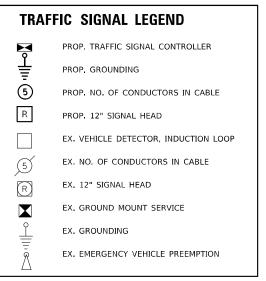
SCALE: NTS

LOT DATE = SDATES

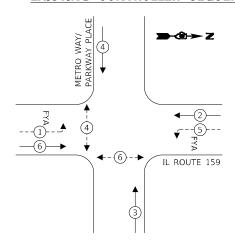
03/01/2024





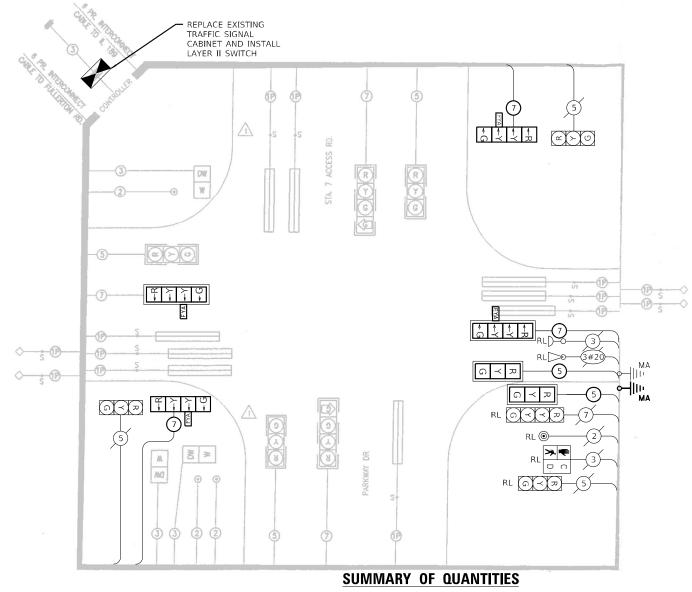


### **EXISTING CONTROLLER SEQUENCE**



SEQUENCE OF OPERATION												
PHASE	1	2	3	4	5	6	7	8				
MOVEMENT	<b>_</b> EB LT	<b>◆</b> WB	↑ NB	<b>↑</b>	<b>√</b> WB LT	<b>←*→</b> —→ EB	935	$Q_{Z_S}$				
CONCURRENT MOVEMENT ALLOWED	2,5 OR 6	1,5 OR 6	4	3	1,2 OR 6	1,2 OR 5	n son	n ton				

<sup>\*</sup> PEDESTRIAN MOVEMENT DISPLAYED UPON ACTIVATION ONLY



ITEM	UNIT	TOTAL
RELOCATE SIGN PANEL - TYPE 1	SQ FT	25
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	225
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	755
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	725
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	975
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	15
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	4
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CABLE FROM CONDUIT	EACH	500
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
EMEDICANCY VEHICLE DRIODITY SYSTEM LINE SENSOD CARLE NO. 20.2/C	FOOT	F20

RL: EXISTING SIGNAL ITEM RELOCATED FROM EXISTING INSTALLATION TO PROPOSED MA OR POST.

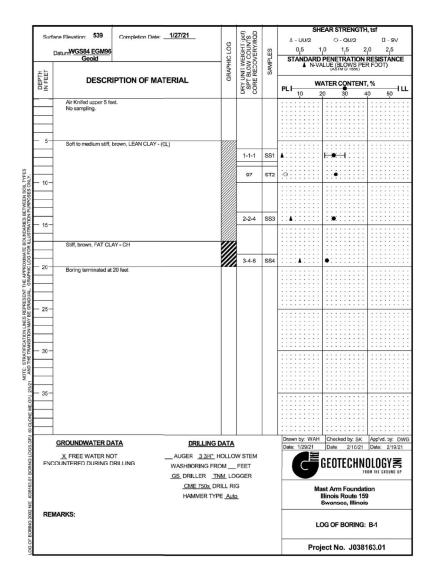
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	225
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	755
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	725
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	975
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	15
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	4
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CABLE FROM CONDUIT	EACH	500
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	530

DELTA ENGINEERING GROUP, LLC	USER NAME = \$USER\$	DESIGNED - MA	REVISED -
DELTA ENGINEERING GROUP, LLC ONSULTING PROINFERS, CONSTRUCTION MANAGERS, SURVEYORS 11 W JACKSON BLVD, SUITE 910		DRAWN - NS	REVISED -
HICAGO, IL 60604 312.377.7700, F 312.427 6145	PLOT SCALE = \$SCALE\$	CHECKED - MA	REVISED -
312.371.7700,1 312.427 0143	PLOT DATE = \$DATE\$	DATE - 03/01/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NTS

	50									
	TRA	FFIC	SIGNAL CA	BLE PLA	N	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I R	OUTE 159	ΛND	METRO W	AV/PARK	WAY PLACE	600	(130, 130-1, 130-2) TS-3, 82-5TS	ST. CLAIR	74	62
L 11	001L 133	AIV	IVILIIIO VV	AI/ I AIIK	WAI I LAUL			CONTRACT	NO. 76	R78
	SHEET	OF	SHEETS	STA	TO STA.		TILINOIS EED AT	D DROIECT CMA	N-HSID-MASK	1 (2/10)



Surfa	ce Elevation: _545 Comp	letion Date:1/27/21		Sch DD			HEAR STRENGTH	
			98	THU S	(0	Δ - UU/2 0.5	O - QU/2 1,0 1,5 2	□ - s∨ 2,0 2,5
D	atumWGS84 EGM96 Geoid		CL	888	l Si	STANDAR	D PENETRATION	RESISTANCE
T I			GRAPHIC LOG	LOW	SAMPLES	▲ N-1	VALUE (BLOWS PE	R FOOT)
DEPTH IN FEET	DESCRIPTION	N OF MATERIAL	GR.	DRY UNIT WEIGHT (pcf) SPT BLOW COUNTS CORE RECOVERY/RQD	0,		WATER CONTENT	r %
ΔZ				R S S		PLI 10		40 50 LI
	Air Knifed upper 5 feet.					::::::::	: :::::::::	
_	No sampling.					::::::::	:   : : : : : : : : :	::::::::
-						::::::::	: :::::::::	::::::::
- 5	Medium stiff, brown and gray,	LEAN CLAY - (CL)				:::::::	: :::::::::	::::::::
-				2-3-3	SS1			
$\overline{}$								
- 10-				97	ST2	0	: : <del>!.•</del>	<del>  !</del> :::::
-10						::::::::	: :::::::::	::::::::
$\rightarrow$								
$\neg$							: :::::::::	
- 15-				2-3-4	SS3	:: 1::::	: ::•::::::	
15								
_	Medium stiff, gray, FAT CLAY	-CH						
						:::::::	: :::::::::	::::::::
- 20				3-2-4	SS4	::4:::::	:•::::::::	
20	Boring terminated at 20 feet							
- 25-								
						::::::::		
$\overline{}$								
- 30-								
						:::::::	:   : : : : : : : : :	::::::::
- 35-								
-						:::::::		
		ACRES CONT. IN				Drawn by: WAI	H Checked by: SK	App'vd. by: DW
	GROUNDWATER DATA	DRILLING	DATA			Date: 1/29/21	Date: 2/10/21	Date: 2/19/21
ENC	X FREE WATER NOT	AUGER <u>3 3/4"</u>					CENTERUM	กเกตง
ENCC	DUNTERED DURING DRILLING	WASHBOKING FR					GEOTECHN	ULULI S
		GS DRILLER T						
		CME 750x D					Mast Arm Foundat	
		HAMMER TY	Aut	<u>)</u>			Illinois Route 15 Swansca, Illinois	9
REM	ARKS:							
	mat 355000						LOG OF BORING:	B-2
						_		
							oject No. J038	

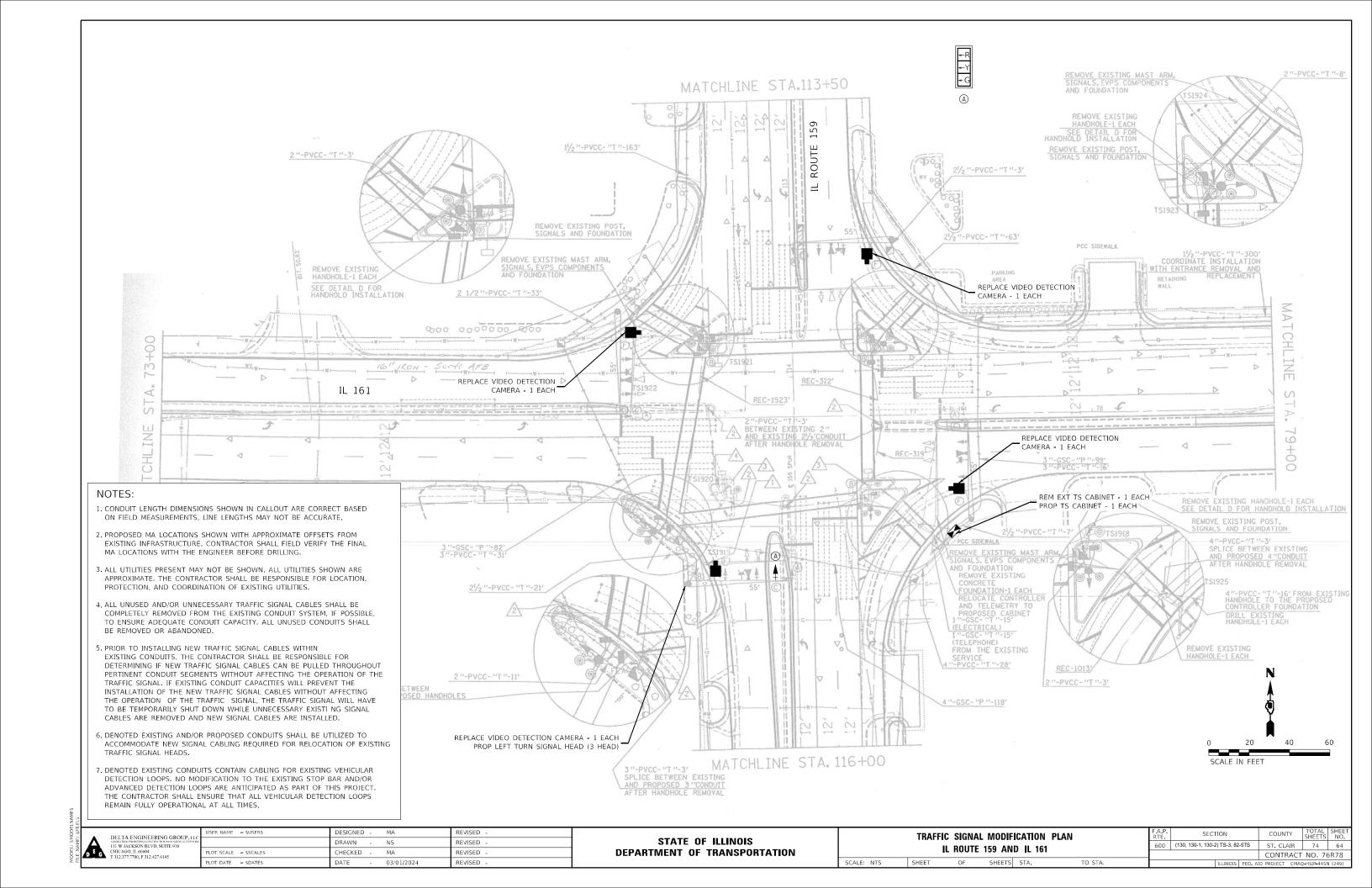
	BORING LOG: TERMS AND SYMBOLS						
	LEGE	END			Plasticity Cl	hart	
CS	Continuous	Sampler		80 %	Thistieng Ci		
GB	Grab Samp			70 %			
NQ	NQ Rock C			00 %	+	100	
PST		ਹ Rock Core iree-Inch Diameter Piston Tube Sample				CH Time	
SS		Sample (Standard P		40 %		0	
				30 %			
ST		Diameter Shelby Tub	e Sampie	20.%		MH	
*		t Recovered		10 %			
PL		it (ASTM D4318)		Z	4 SUME		
LL		(ASTM D4318)		3 %	10 % 20 % 30 % 40 % 50 % 60 Liquid Limit	% 70 % 80 % 90 % 100 % 11	
Stream Strength from Field Varie (ASTN D2573)							
UU					ompression Test (AST	M D2850)	
QU Shear Strength from Unconfined Compression Test (ASTM D2166)							
			SOIL GRA				
	1	2" 3"	US STANDA		0 40 2	00	
	1.		RAVEL	4 10	SAND	1 1	
BOULD	DERS			00480=		SILT CLA	
10.55336500	30		E FINE 19.1 4.	76 2.0	MEDIUM FINE 0 0.42 0.0	0.005	
	30	101				0.005	
			L GRAIN SIZE				
	Major Di	UNIFIED SO	Symbol	FICATIO	N SYSTEM  Description	n	
% 0	Gravel	Clean Gravels	GW	Well-Graded	Gravel, Gravel- Sand M		
Coarse-Grained Soils (More than 50% Larger than No. 200 Sieve Size)	and	Little or no Fines	GP		ed Gravel, Gravel-Sand I		
o in (	Gravelly	Gravels with	GM	Silty Gravel, Gravel-Sand-Silt Mixture			
Coarse-Grained Soils (More than 50 Larger than No. 20 Sieve Size)	Soil						
an an	3011	Appreciable Fines		GC Clayey-Gravel, Gravel-Sand-Clay Mixture			
or th	Sand and	Clean Sands	SW				
Sie Sie	Sandy	Little or no Fines	SP		ded Sand, Gravelly Sand		
arg arg	Soils	Sands with	SM				
S T	00.110	Appreciable Fines	SC	SC Clayey-Sand, Sand-Clay Mixture			
<u> </u>	C:14= ===d	Linus and Linus	ML	Silt, Sandy S	Silt, Clayey Silt, Slight Pla	sticity	
Soi No No Ze)	Silts and	Liquid Limit	CL	Lean Clay, S	Sandy Clay, Silty Clay, Lo	w to Medium Plasticit	
d Si	Clays	Less Than 50	OL	Organic Silts	or Lean Clays, Low Plas	sticity	
ine tha			MH	Silt, High Pla			
er er er	Silts and	Liquid Limit	CH	Fat Clay, Hig			
ore ore nall	Clays	Greater Than 50			n Flasticity , Medium to High Plastic	de.	
Fine-Grained Soils (More than 50% Smaller than No. 200 Sieve Size)			OH			лу	
ш .,		nly Organic Soils	PT	Peat, Humus, Swamp Soil			
	STRENG	TH OF COHESIV			DENSITY OF GR		
Consis	tencv	Undrained Shear		ed Comp.	Descriptive Term	Approximate	
St. 40 (\$120) (900)	•	Strength (tsf)		th (tsf)		N 60 - Value Rang	
Very		less than 0.125		en 0.25	Very Loose	0 to 4	
So		0.125 to 0.25		to 0.5	Loose	5 to 10	
Mediun		0.25 to 0.5		to 1.0	Medium Dense	11 to 30	
Sti		0.5 to 1.0		to 2.0	Dense	31 to 50	
	Very Stiff 1.0 to 2.0 2.0 to 3.0			Very Dense	>50		
Hard greater than 2.0 g				than 4.0			
					N = 7 + 9 = 16). Value	es are shown as a	
		ot and shown in the U	nit Dry Weigh	nt/SPT colun	The state of the s		
RELATIVE COMPOSITION					OTHER TERMS		
					er than 3 inches thick.		
Little 10 to 20% Seam - Inclusion 1/B-inch to 3 inches thick							
Son		20 to 35%			than 1/8-inch thick		
An	d	35 to 50%	Pocket - In	clusion of m	aterial that is smaller to	han sample diamet	
4		Relative co	mposition and	Unified Soi Cla	assification System (USCS)	designations are base	
<u> </u>	EOTECHNOI				only. If laboratory tests we renthesis.		

SOIL BORING No. 1

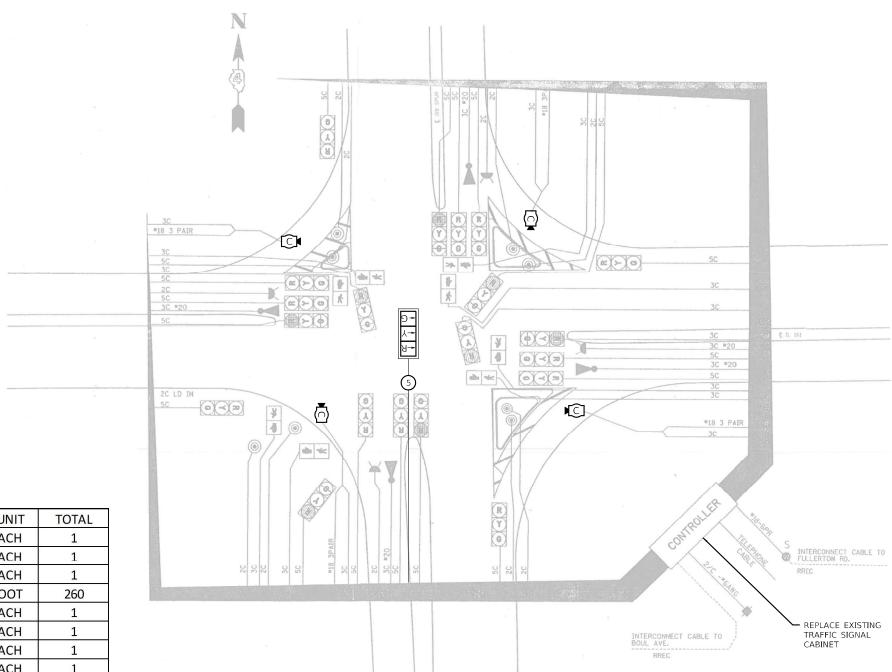
SOIL BORING No. 2

A

JSER NAME = \$USER\$ DESIGNED -REVISED -SECTION SOIL BORING COUNTY DELTA ENGINEERING GROUP, LI CONSULTRICI PROLEDING SERVEN 111 W JACKSON BLVD, SUITE 910 CHICAGO, IL. 60604 T 312.377.7700, F 312.427 6145 STATE OF ILLINOIS DRAWN -NS REVISED -600 (130, 130-1, 130-2) TS-3, 82-5TS ST. CLAIR 74 63 IL ROUTE 159 AND METRO WAY **DEPARTMENT OF TRANSPORTATION** CHECKED -MA REVISED -CONTRACT NO. 76R78 PLOT DATE = \$DATE\$ REVISED -SCALE: NTS OF SHEETS STA. TO STA. DATE 03/01/2024







### **SUMMARY OF QUANTITIES**

ITEM	UNIT	TOTAL
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	260
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
VIDEO DETECTION SYSTEM	EACH	1

Δ	DELTA ENGINEERING GROUP, LLC CONSULTING PROBERS, CONSTRUCTION MANAGERS, SLEVEYORS 111 W JACKSON BLVD. SUITE 910	
E G	CHICAGO, IL 60604 T 312.377.7700, F 312.427 6145	L

LLC	USER NAME = \$USER\$	DESIGNED	-	MA	REVISED -
EYORS		DRAWN	-	NS	REVISED -
	PLOT SCALE = \$SCALE\$	CHECKED	-	MA	REVISED -
	PLOT DATE = \$DATE\$	DATE	-	03/01/2024	REVISED -

STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

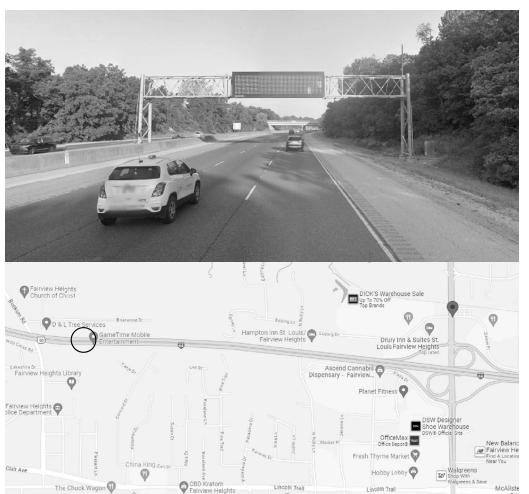
I		Т	RAFFIC SI	IGNAL CA	BLE PLA	AN	F.A.P. RTE	SEC.	TION		COUNTY	TOTAL SHEETS	
ı	IL ROUTE 159 AND IL 161						600	(130, 130-1, 130-	2) TS-3, 82	2-5TS	ST. CLAIR	74	65
ļ											CONTRACT	NO. 76	5R78
l	SCALE: NTS	SHEET	OF	SHEETS	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT CMA	Q-HSIP-4451	V (249)

10DEL: \$MODELNAME ILE NAME: \$FILELS

NOTE:
THE CONTRACTOR SHALL SUBMIT COMPLETE ELECTRICAL DESIGN DETAILS
AND CALCULATE SEALED BY AN ILLINOIS LICENSES ELECTRICAL AND
STRUCTURAL ENGINEER TO THE RESIDENT ENGINEER FOR REVIEW AND
APPROVAL PRIOR TO THE ORDERING OF ANY MATERIALS.

SIGN STRUCTURES - ALTERNATIVE TRUSS DETAILS FOR DMS ALUMINUM TRUSS AND STEEL POST

SCALE:



### SCHEDULE OF QUANTITIES

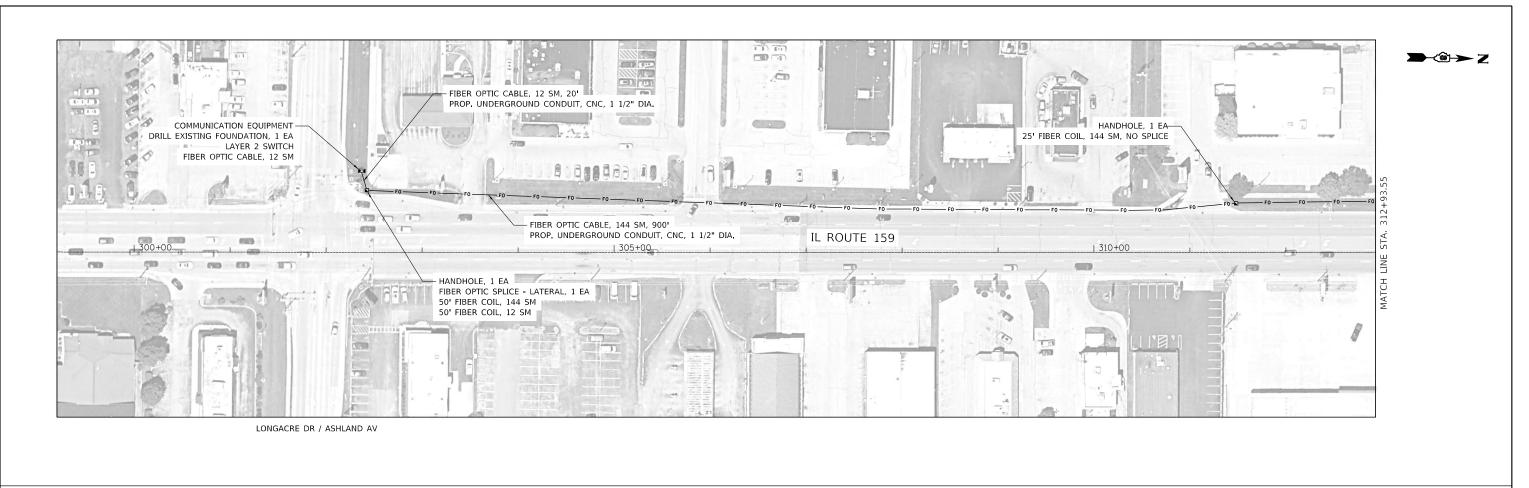
ITEM DESCRIPTION UNIT QTY. CABINET, MODEL 334 EACH TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN EACH

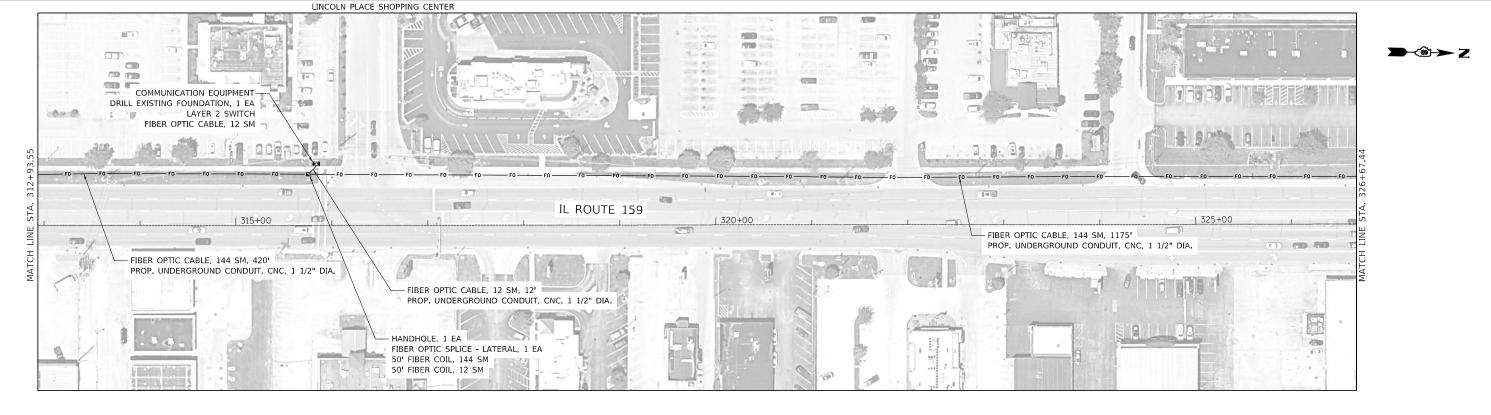
iteris

USER NAME = bfunk	DESIGNED	-	BF	REVISED	-
	DRAWN	-	BF	REVISED	-
PLOT SCALE = 100.0000 / in.	CHECKED	-	AD	REVISED	-
PLOT DATE = 12/22/2023	DATE	-	11/7/23	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

RUSS	MOUNTED	LED	DYNAMIC	MESSAGE	SIGN	(DMS)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		W/R	I-64 MP	10.8		, ,	600	(130, 130-1, 130-2) TS-3, 82-5TS	ST. CLAIR	74	66
		WD	1-04 1011	10.0					CONTRACT	NO. 76	R78
	SHEET	OF	SHEETS	STA.	-	TO STA.		ILLINOIS FED. A	ID PROJECT		





0 50 100 15 SCALE IN FEET

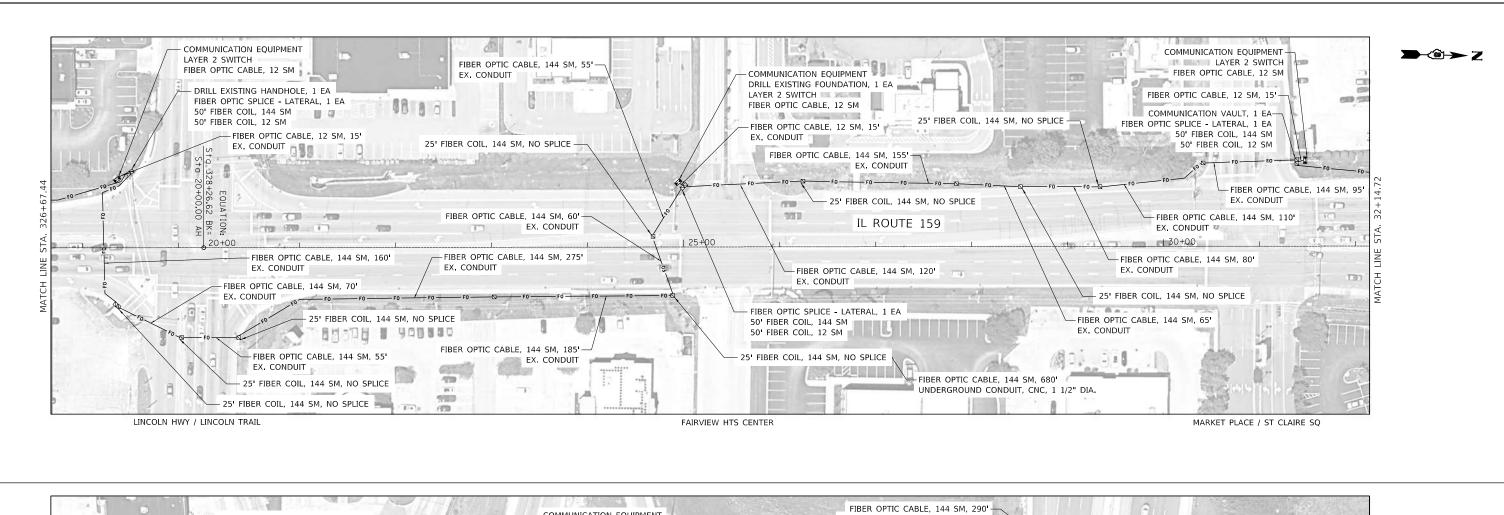
• 4	• .
ite	ric

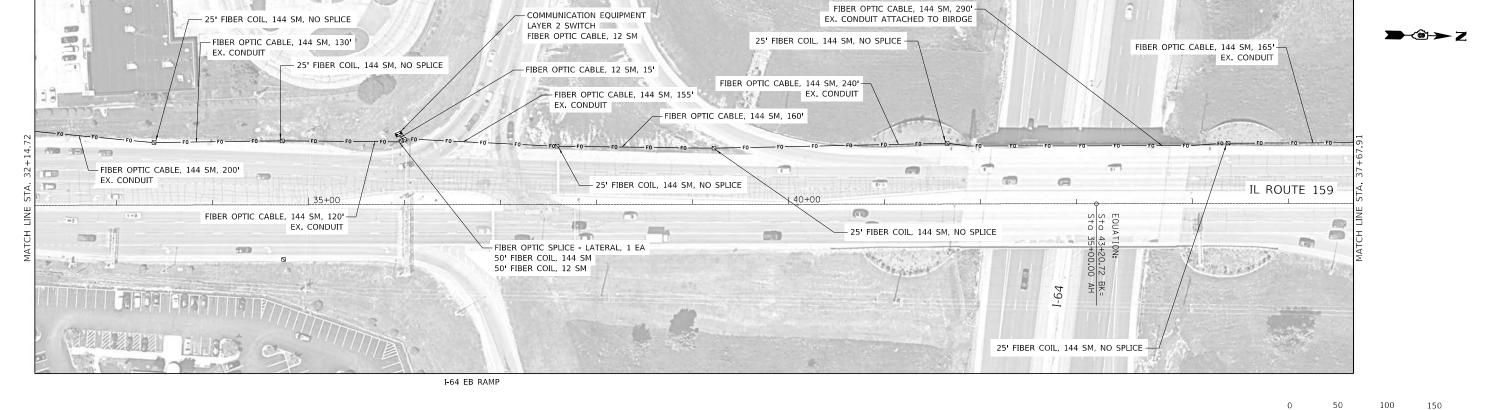
USER NAME = adanczyk	DESIGNED - BF	REVISED -
	DRAWN - BF	REVISED -
PLOT SCALE = 100.0000 / in	CHECKED - ASG	REVISED -
PLOT DATE = 2/27/2024	DATE - 11/6/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

FIBER OPTIC INSTALLATION PLAN					SECTION	ON	
	IL	600	(130, 130-1, 130-2) TS-3, 82-	5T			
		110012 100					
SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS	FE	





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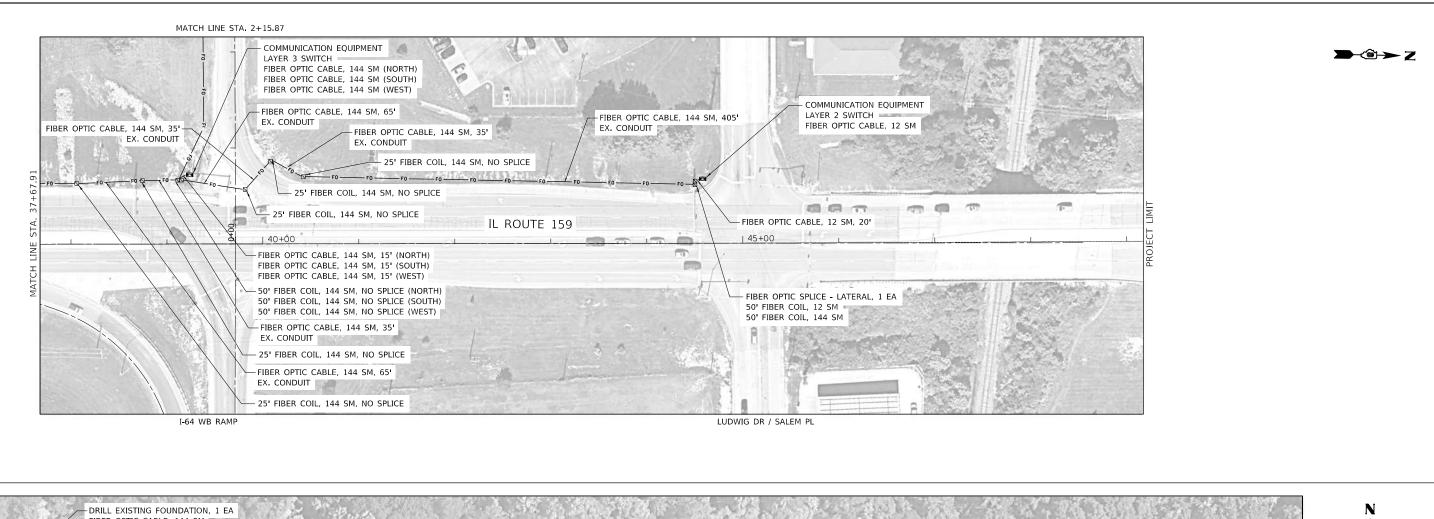
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

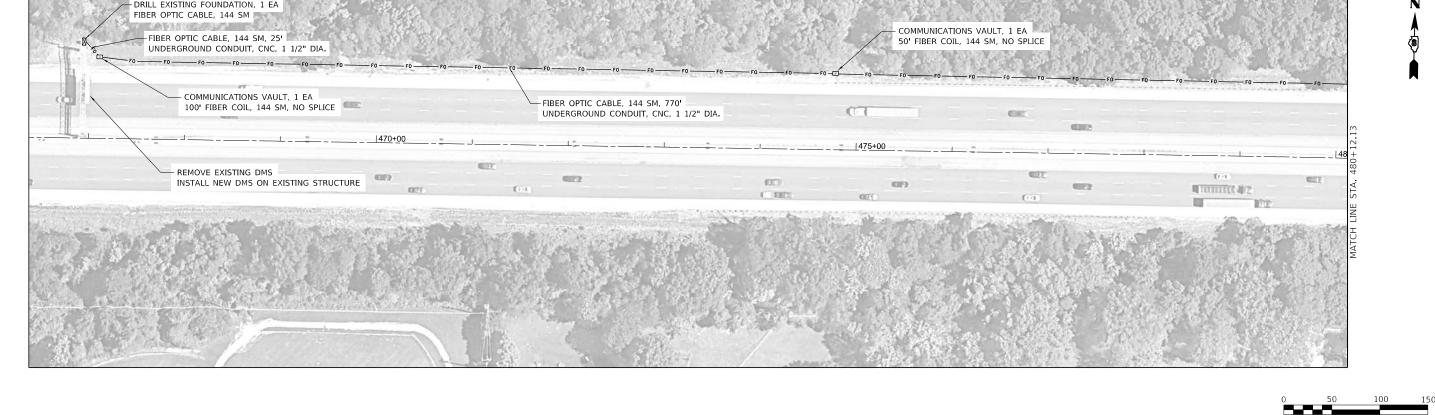
 FIBER OPTIC INSTALLATION PLAN
 F.A.P. RTE.
 SECTION

 IL ROUTE 159
 600 (130, 130-1, 130-2) TS-3, 82 

 SHEET OF SHEETS STA. TO STA.
 TO STA.

SCALE IN FEET





**iteris** 

USER NAME = adanczyk	DESIGNED - BF	REVISED -
	DRAWN - BF	REVISED -
PLOT SCALE = 100.0000 / in	CHECKED - ASG	REVISED -
PLOT DATE = 2/6/2024	DATE - 11/6/23	REVISED -

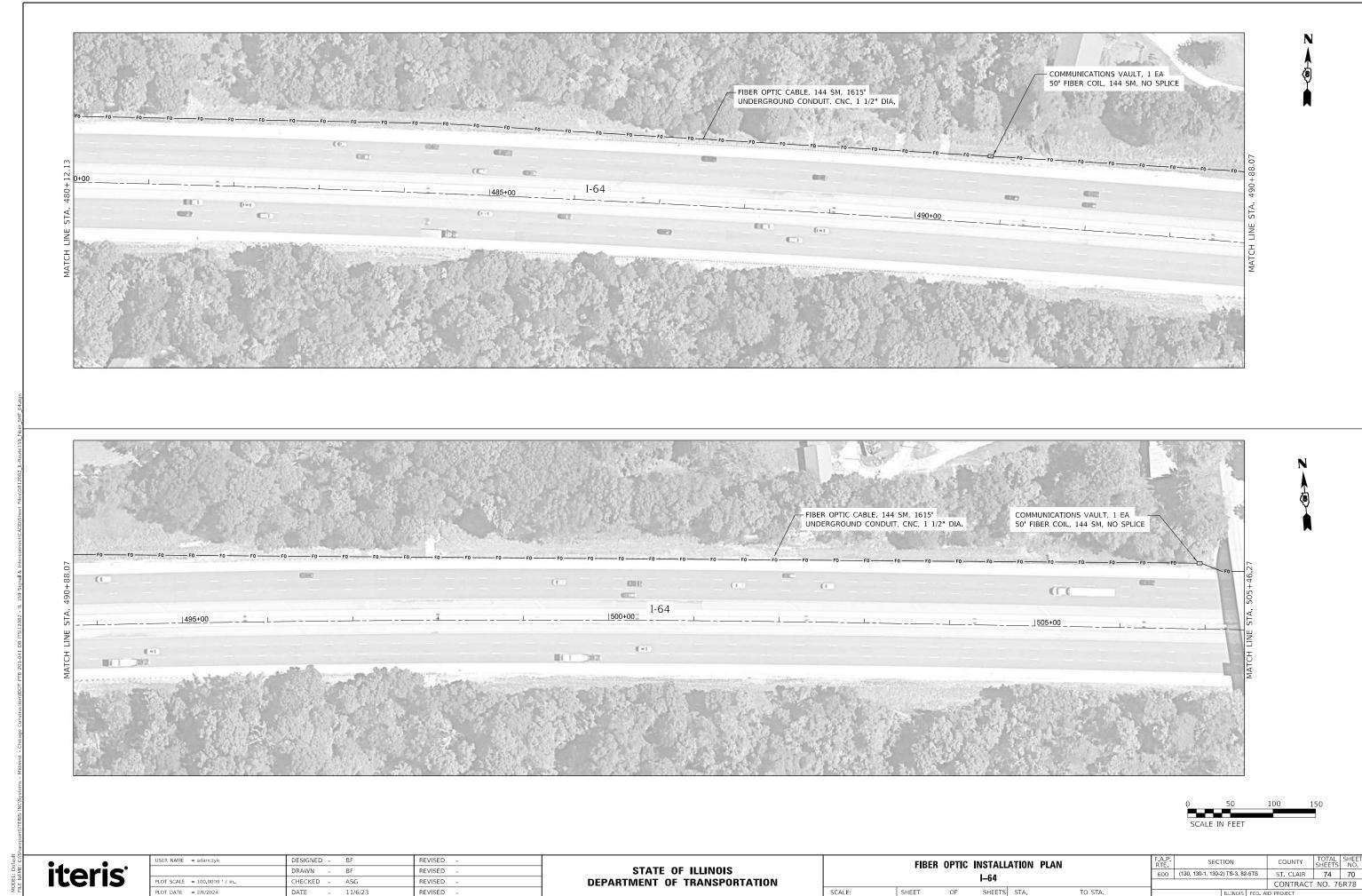
FIBER OPTIC INSTALLATION PLAN						F.A.P. RTE	SECTION		
IL ROUTE 159 - I-64							600 (130, 130-1, 130-2) TS-3, 82		
	SHEET	OF	SHEETS	STA.	TO STA.			ILLINOIS	-

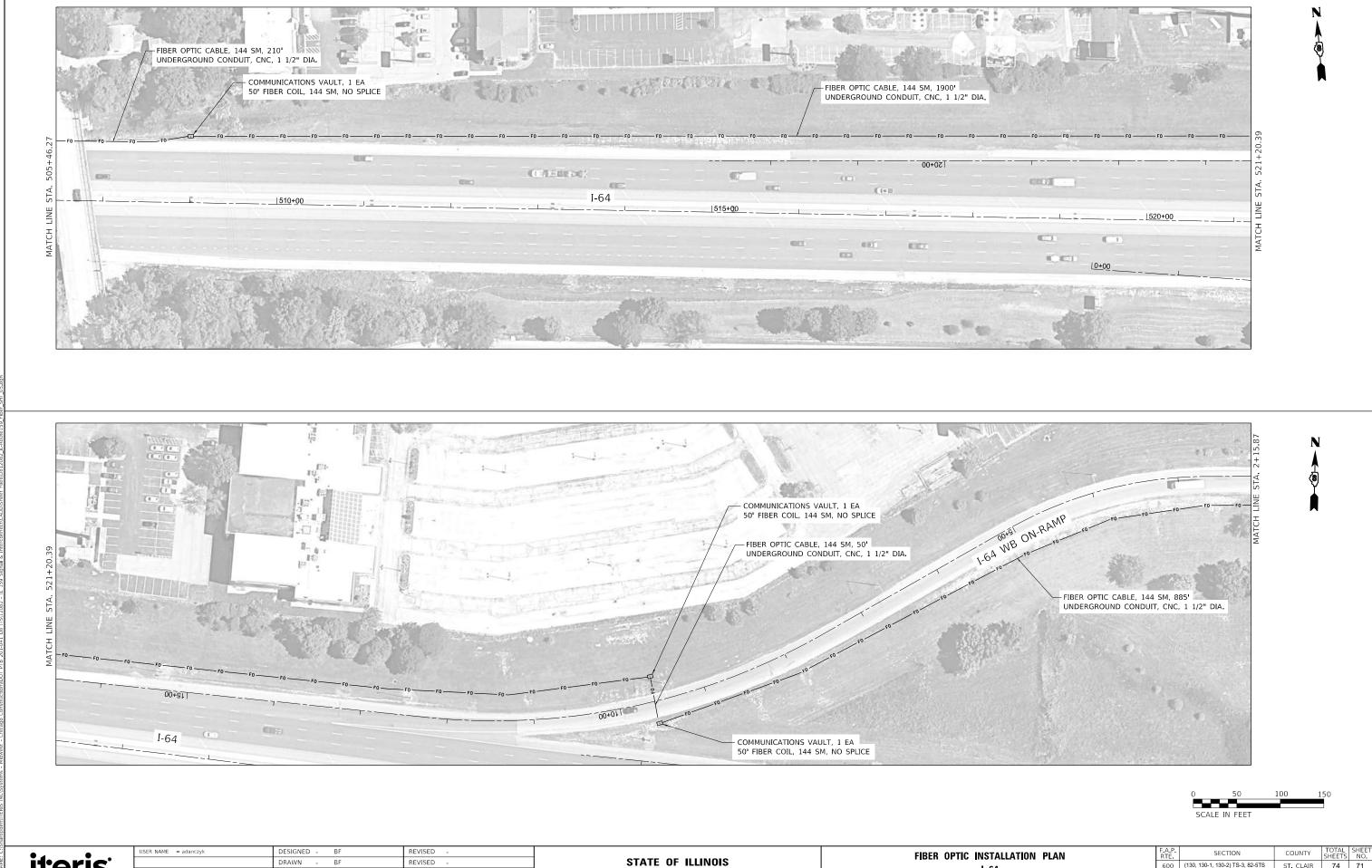
SCALE IN FEET

NODEL: Default ILE NAME: C:\Shar

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:





**DEPARTMENT OF TRANSPORTATION** 

600 (130, 130-1, 130-2) TS-3, 82-5TS ST. CLAIR 74 71

CONTRACT NO. 76R78

I-64

SHEETS STA.

SHEET

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LOT DATE = 2/6/2024

DRAWN -

CHECKED -

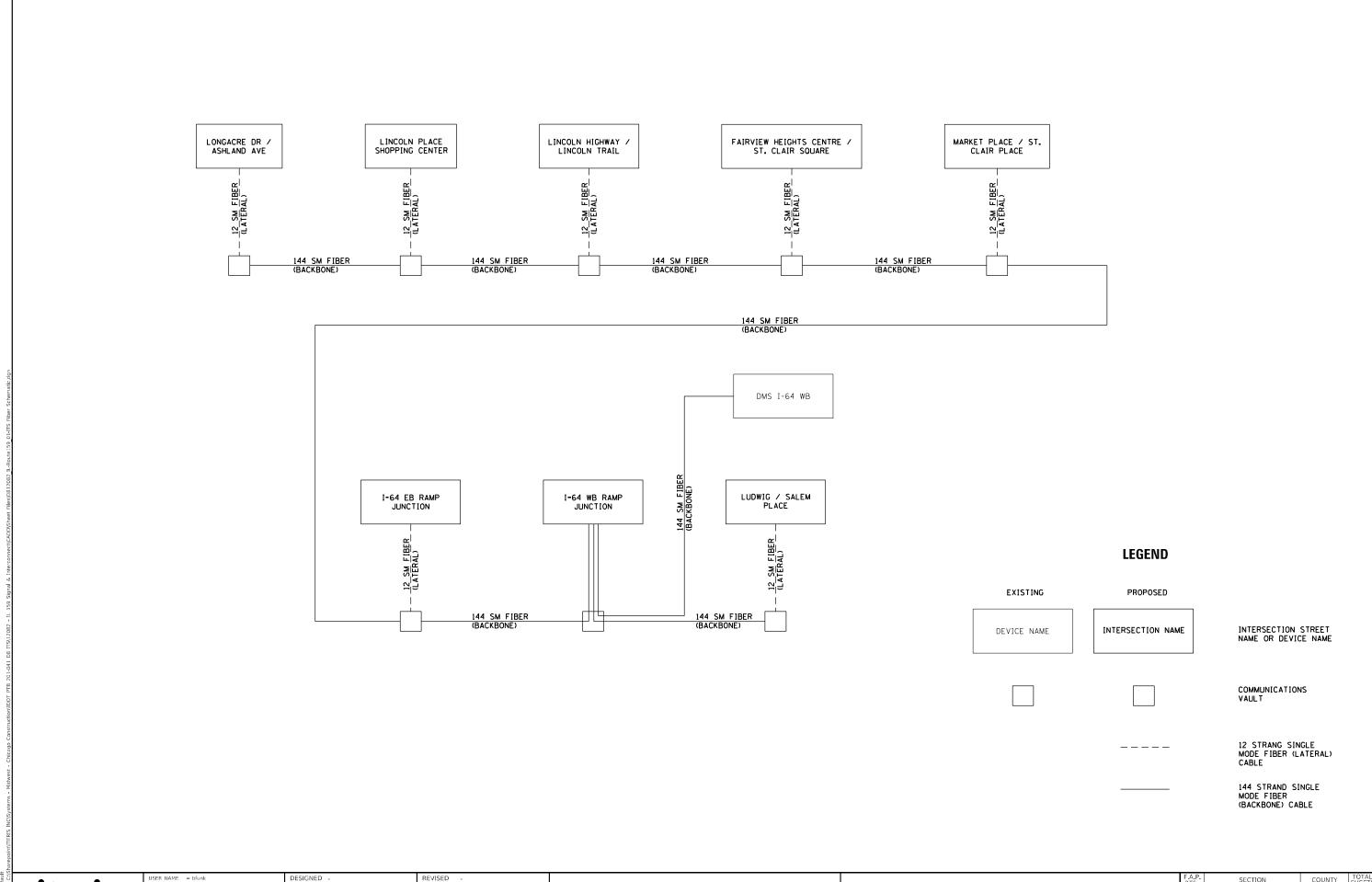
BF

ASG

REVISED

REVISED

REVISED



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER COMMUNICATIONS SYSTEM TOPOLOGY

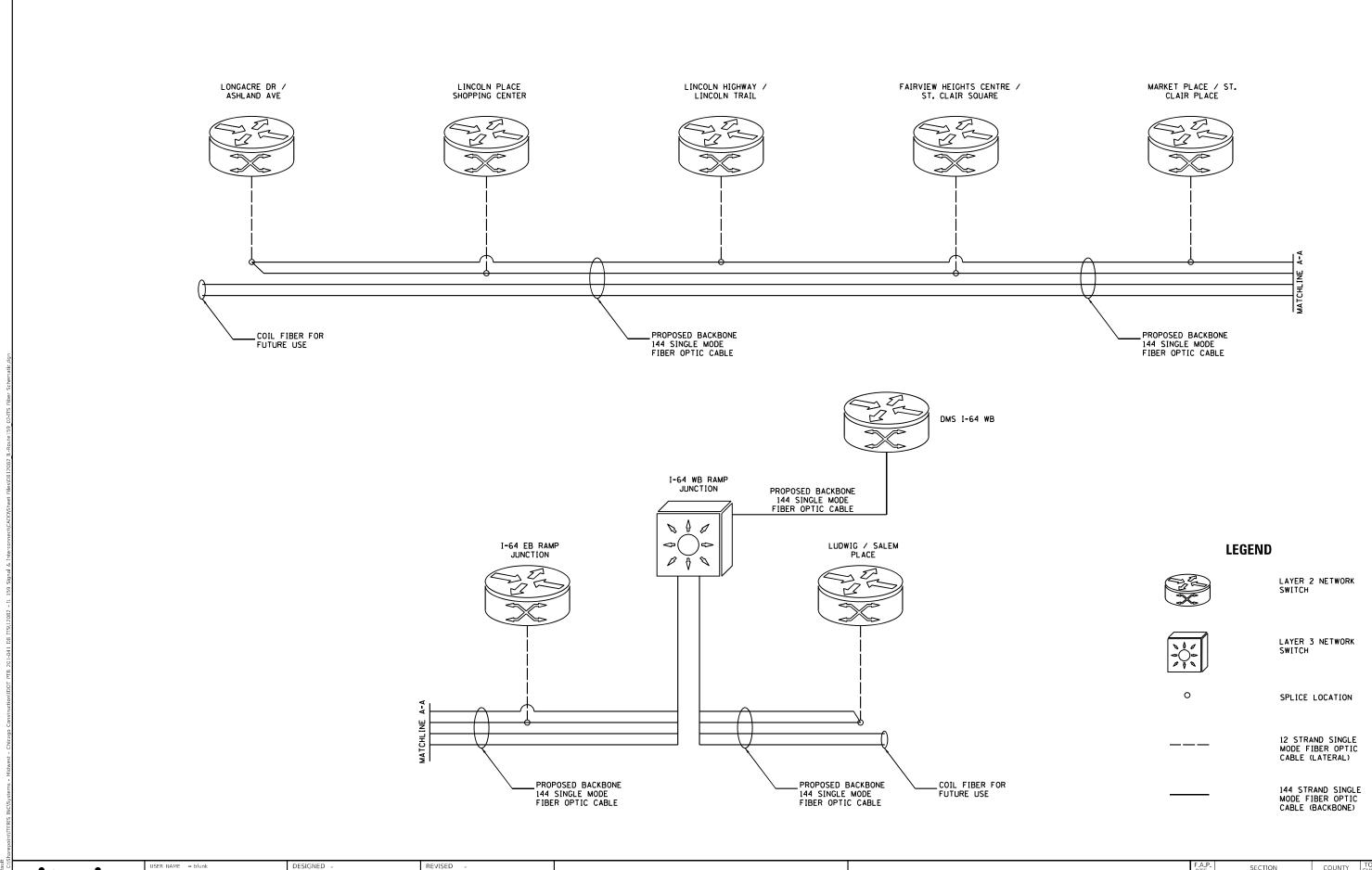
| SHEET OF SHEETS STA. TO STA.

SCALE:

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

 600
 (130, 130-1, 130-2) TS-3, 82-5TS
 ST. CLAIR
 74
 72

 CONTRACT NO. 76 R78



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

FIBER COMMUNICATIONS SYSTEM SCHEMATIC

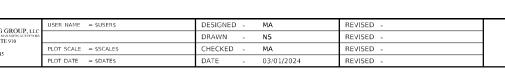
SHEET OF SHEETS STA. TO STA.

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

 600
 (130, 130-1, 130-2) TS-3, 82-5TS
 ST. CLAIR
 74
 73

 CONTRACT NO. 76R78





12" DIAMETER

GALVANIZED POST CAP

SEE SIGN SCHEDULE

PEDESTRIAN PUSHBUTTON OR ACCESSIBLE PEDESTRIAN STATION

- SQUARE CAST IRON GALVANIZED BASE CENTERED ON TYPE A FOUNDATION

FINISHED SURFACE

- 1.5" PVC CONDUIT CONDUIT TO EXTEND 1" ABOVE TOP OF FOUNDATION WITH GROUNDING BUSHING

O.75" DIAMETER X 17"
LENGTH ANCHOR BOLT
6" THREADED LENGTH,
12 GALVANIZED LENGTH.
3" THREAD LENGTH SHALL
EXTEND ABOVE TOP OF FOUNDATION

TETHER PER MANUFACTURER SPECS

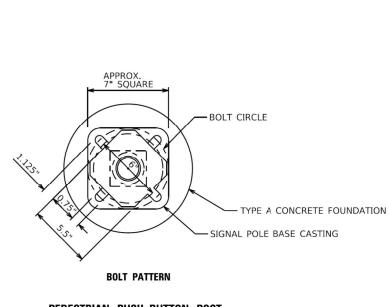
TYPE A CONCRETE FOUNDATION

\_\_\_1" BEVEL

- GALZANIZED STEEL POST 4.5" OUTSIDE DIAMETER

ALUMINUM PUSHBUTTON STATION

SECTION COUNTY PEDESTRIAN PUSH BUTTON 600 (130, 130-1, 130-2) TS-3, 82-5TS ST. CLAIR 74 74 POST DETAIL CONTRACT NO. 76R78 SHEET OF SHEETS STA. TO STA.



PEDESTRIAN PUSH-BUTTON POST

SCALE: NTS

STATE OF ILLINOIS							
DEPARTMENT OF TRANSPORTATION							