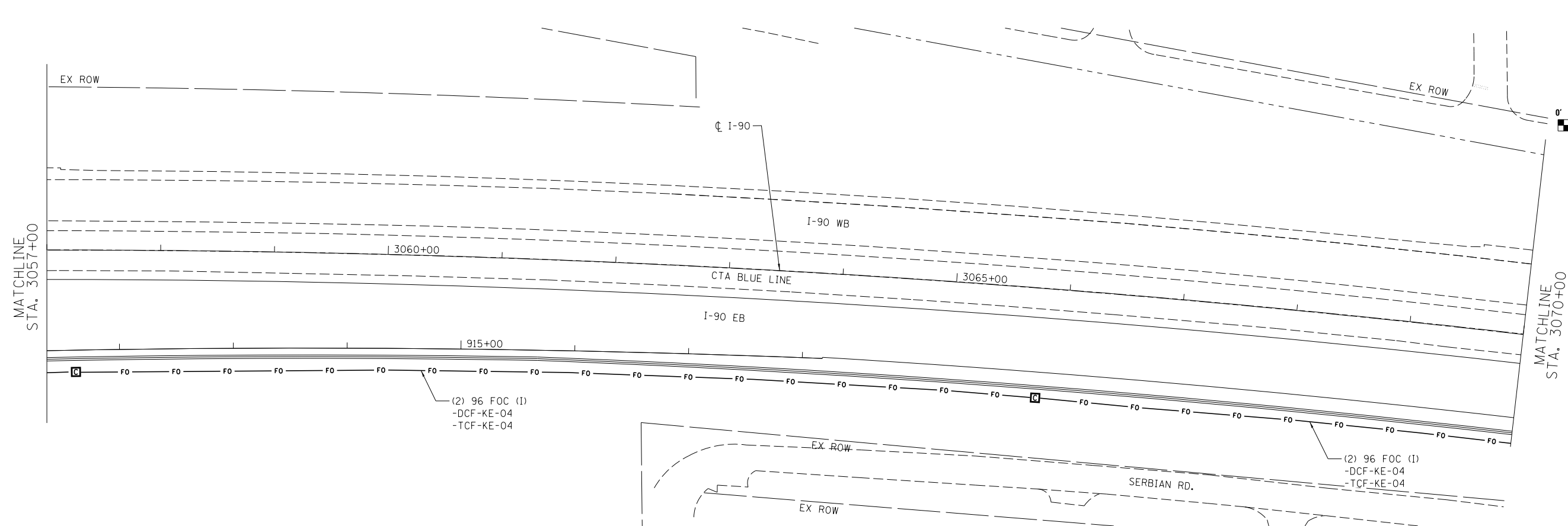


CONDUIT PLAN VIEW



CABLE PLAN VIEW



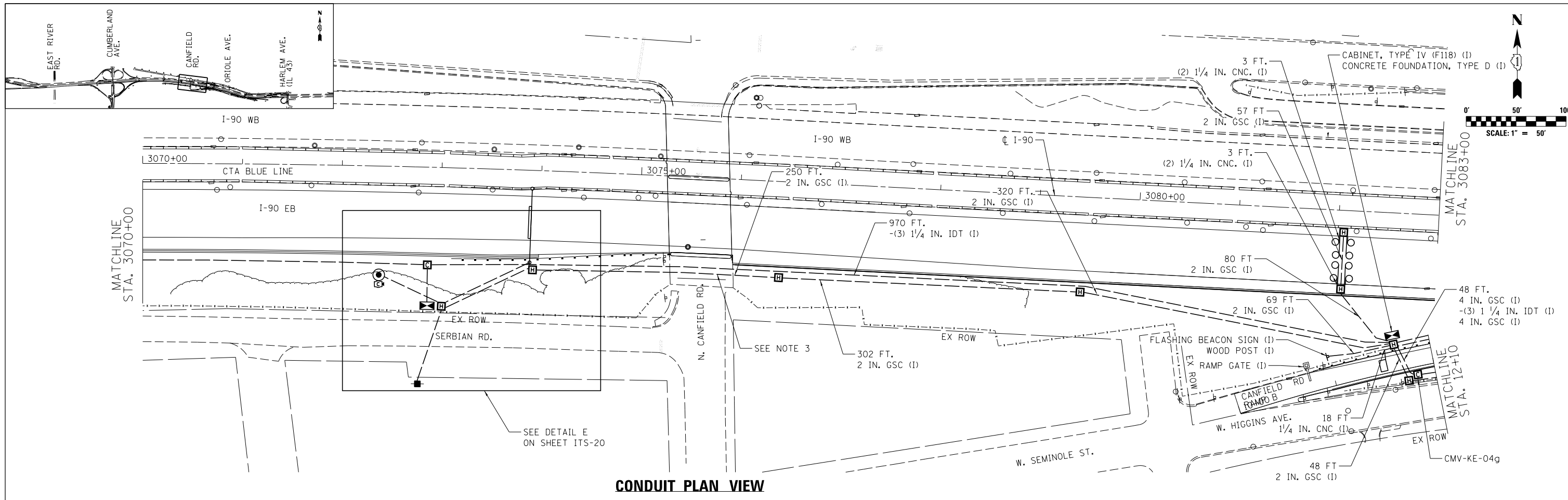
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PLOT DATE = 6/6/2016	DATE 5/6/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

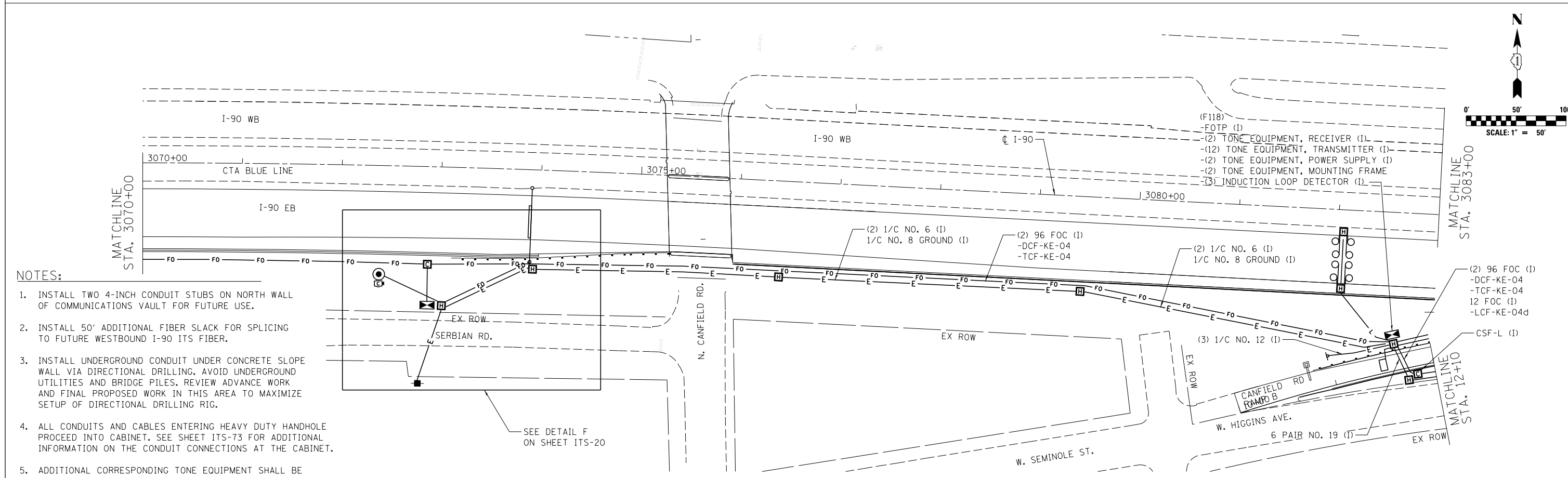
**EASTBOUND I-90 FROM CUMBERLAND AVE TO HARLEM AVE
ITS PROPOSED CONDUIT AND CABLE PLANS**

SCALE: 1"=50' SHEET NO. 5 OF 10 SHEETS STA. 3057+00 TO STA. 3070+00

F.A.I. RTE. 90	SECTION (1517 & 1415) R-3	COUNTY COOK	TOTAL SHEETS 557	SHEET NO. 301
ILLINOIS FED. AID PROJECT				CONTRACT NO. 60Y38



CONDUIT PLAN VIEW



CABLE PLAN VIEW

- NOTES:**
- INSTALL TWO 4-INCH CONDUIT STUBS ON NORTH WALL OF COMMUNICATIONS VAULT FOR FUTURE USE.
 - INSTALL 50' ADDITIONAL FIBER SLACK FOR SPLICING TO FUTURE WESTBOUND I-90 ITS FIBER.
 - INSTALL UNDERGROUND CONDUIT UNDER CONCRETE SLOPE WALL VIA DIRECTIONAL DRILLING. AVOID UNDERGROUND UTILITIES AND BRIDGE PILES. REVIEW ADVANCE WORK AND FINAL PROPOSED WORK IN THIS AREA TO MAXIMIZE SETUP OF DIRECTIONAL DRILLING RIG.
 - ALL CONDUITS AND CABLES ENTERING HEAVY DUTY HANDHOLE PROCEED INTO CABINET. SEE SHEET ITS-73 FOR ADDITIONAL INFORMATION ON THE CONDUIT CONNECTIONS AT THE CABINET.
 - ADDITIONAL CORRESPONDING TONE EQUIPMENT SHALL BE INSTALLED AT THE IDOT TRAFFIC SYSTEM CENTER: 12 RECEIVERS, 2 TRANSMITTERS, 2 POWER SUPPLIES, 2 MOUNTING FRAMES.

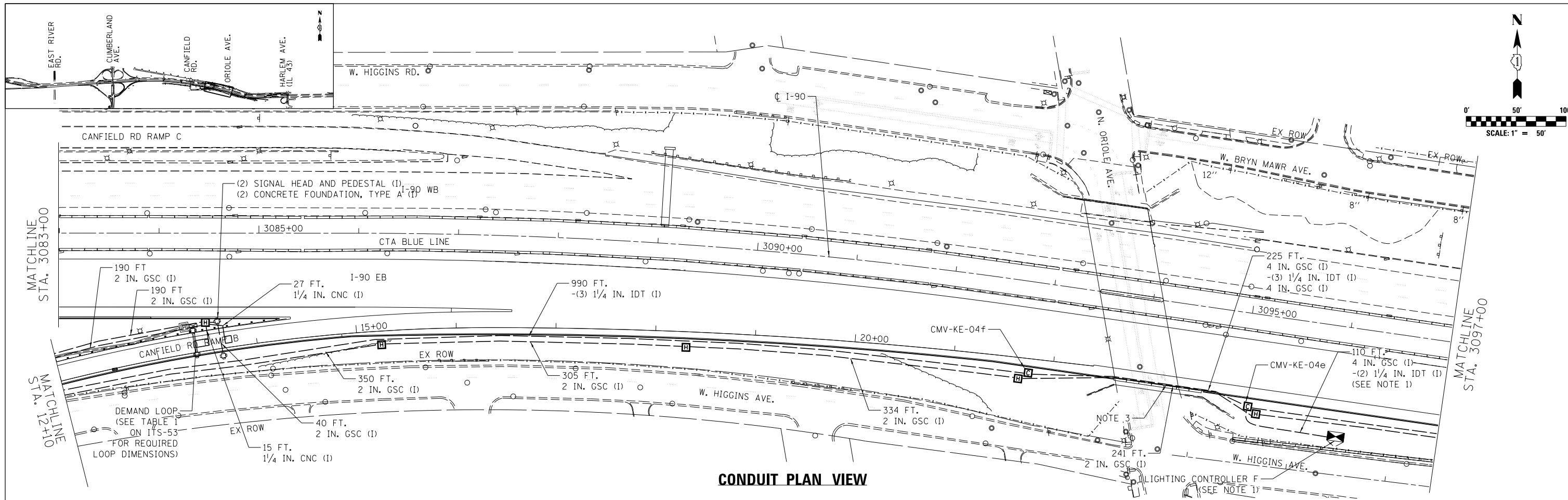


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PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EASTBOUND I-90 FROM CUMBERLAND AVE TO HARLEM AVE
ITS PROPOSED CONDUIT AND CABLE PLANS**

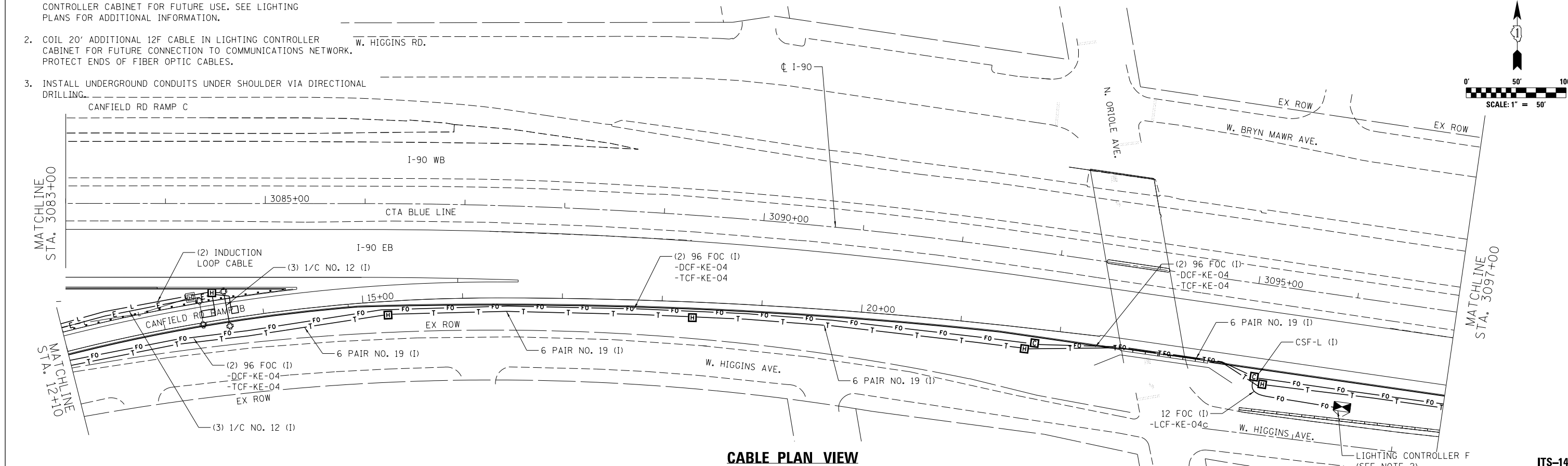
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	302
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				



CONDUIT PLAN VIEW

NOTES:

1. INSTALL 4-INCH CONDUIT INTO CONDUIT STUB OF LIGHTING CONTROLLER CABINET FOR FUTURE USE. SEE LIGHTING PLANS FOR ADDITIONAL INFORMATION.
2. COIL 20' ADDITIONAL 12F CABLE IN LIGHTING CONTROLLER CABINET FOR FUTURE CONNECTION TO COMMUNICATIONS NETWORK. PROTECT ENDS OF FIBER OPTIC CABLES.
3. INSTALL UNDERGROUND CONDUITS UNDER SHOULDER VIA DIRECTIONAL DRILLING.



CABLE PLAN VIEW



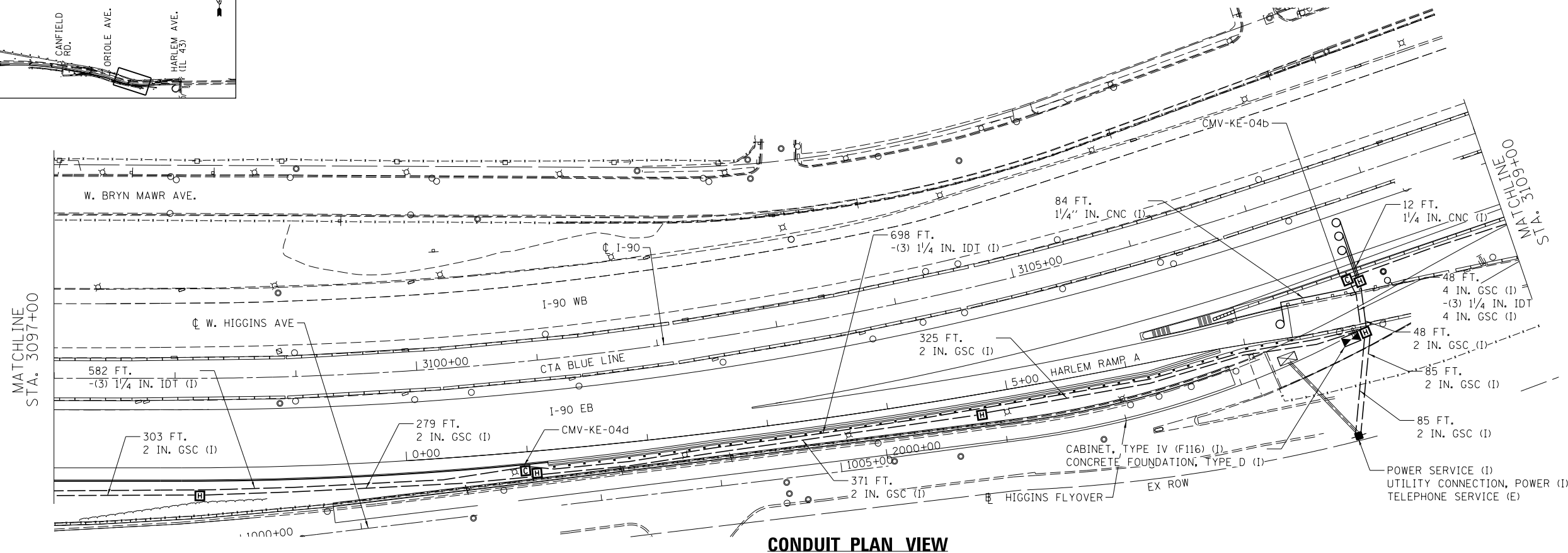
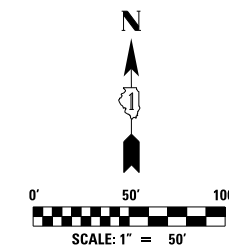
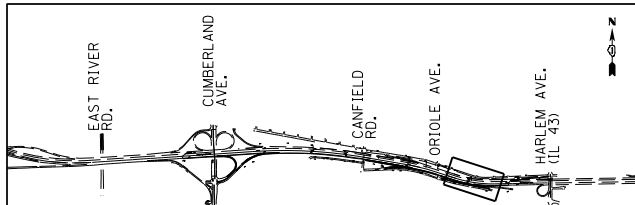
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PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EASTBOUND I-90 FROM CUMBERLAND AVE TO HARLEM AVE
ITS PROPOSED CONDUIT AND CABLE PLANS**

SCALE: 1"=50' SHEET NO. 7 OF 10 SHEETS STA. 3083+00 TO STA. 3097+00

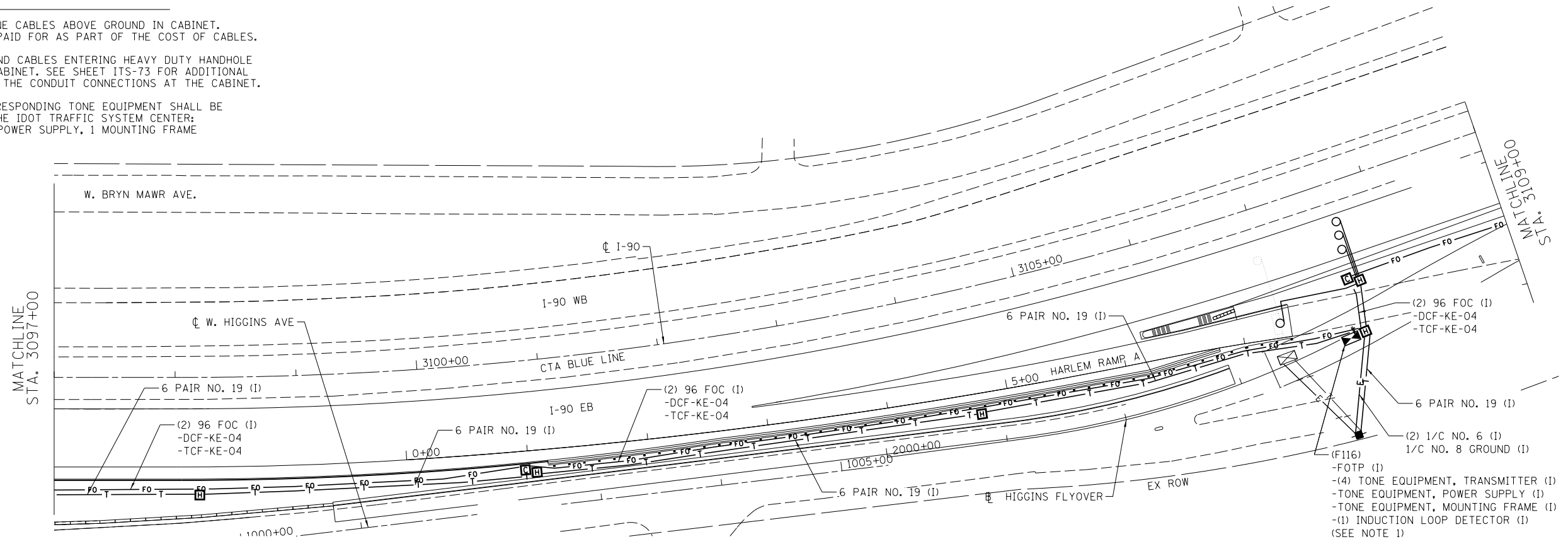
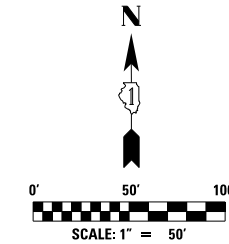
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	303
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				



CONDUIT PLAN VIEW

NOTES:

1. SPLICE TELEPHONE CABLES ABOVE GROUND IN CABINET. SPLICES TO BE PAID FOR AS PART OF THE COST OF CABLES.
2. ALL CONDUITS AND CABLES ENTERING HEAVY DUTY HANDHOLE PROCEED INTO CABINET. SEE SHEET ITS-73 FOR ADDITIONAL INFORMATION ON THE CONDUIT CONNECTIONS AT THE CABINET.
3. ADDITIONAL CORRESPONDING TONE EQUIPMENT SHALL BE INSTALLED AT THE IDOT TRAFFIC SYSTEM CENTER: 4 RECEIVERS, 1 POWER SUPPLY, 1 MOUNTING FRAME



CABLE PLAN VIEW



USER NAME = jblakley	DESIGNED RJ	REVISED -
	DRAWN RJ	REVISED -
PLOT SCALE = 1:8000 / in.	CHECKED YJ	REVISED -
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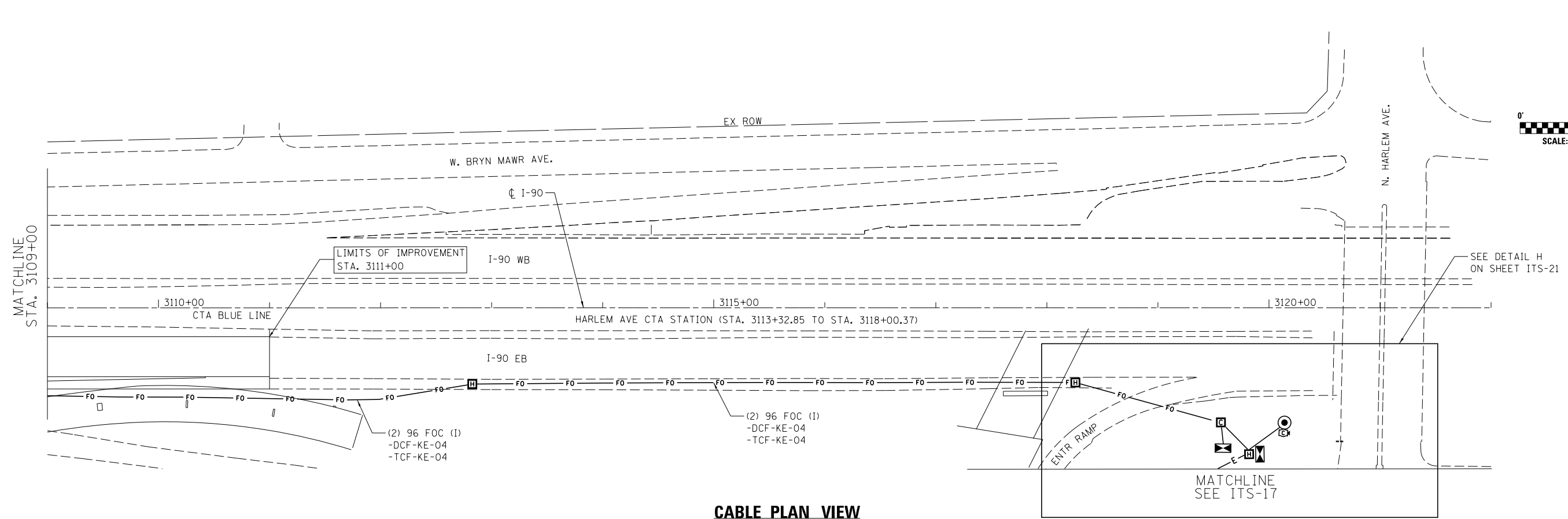
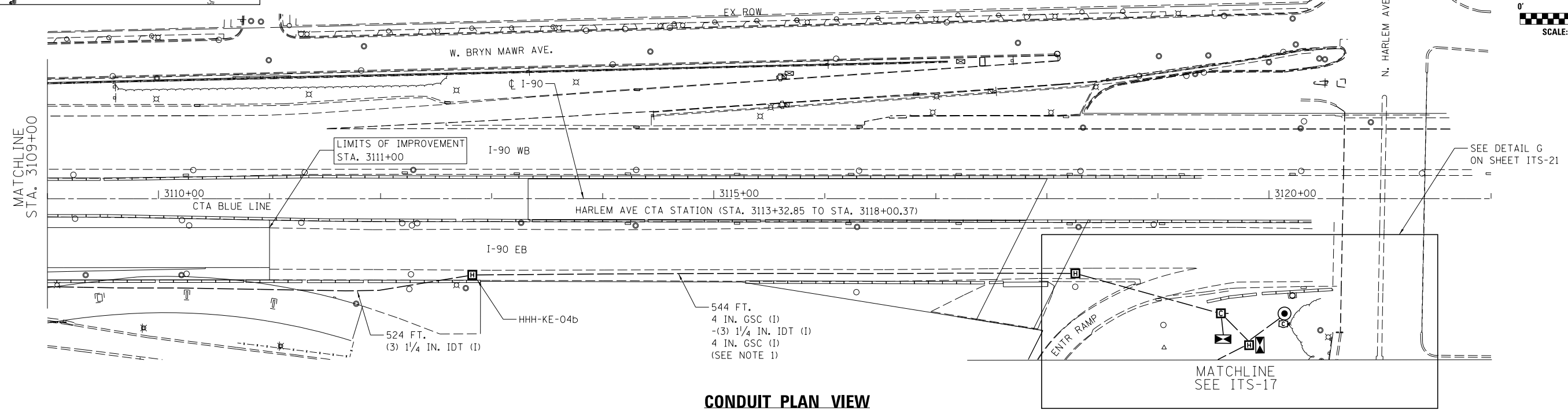
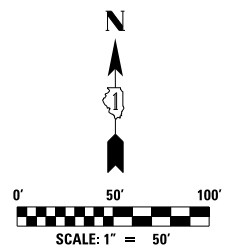
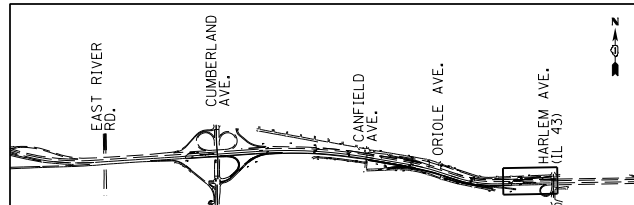
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EASTBOUND I-90 FROM CUMBERLAND AVE TO HARLEM AVE
ITS PROPOSED CONDUIT AND CABLE PLANS**

SCALE: 1"=50' SHEET NO. 8 OF 10 SHEETS STA. 3097+00 TO STA. 3109+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	304
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				

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NOTES

- 1. INSTALL UNDERGROUND CONDUIT UNDER EXISTING SHOULDER VIA DIRECTIONAL DRILLING.



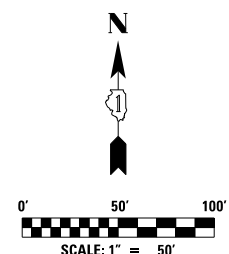
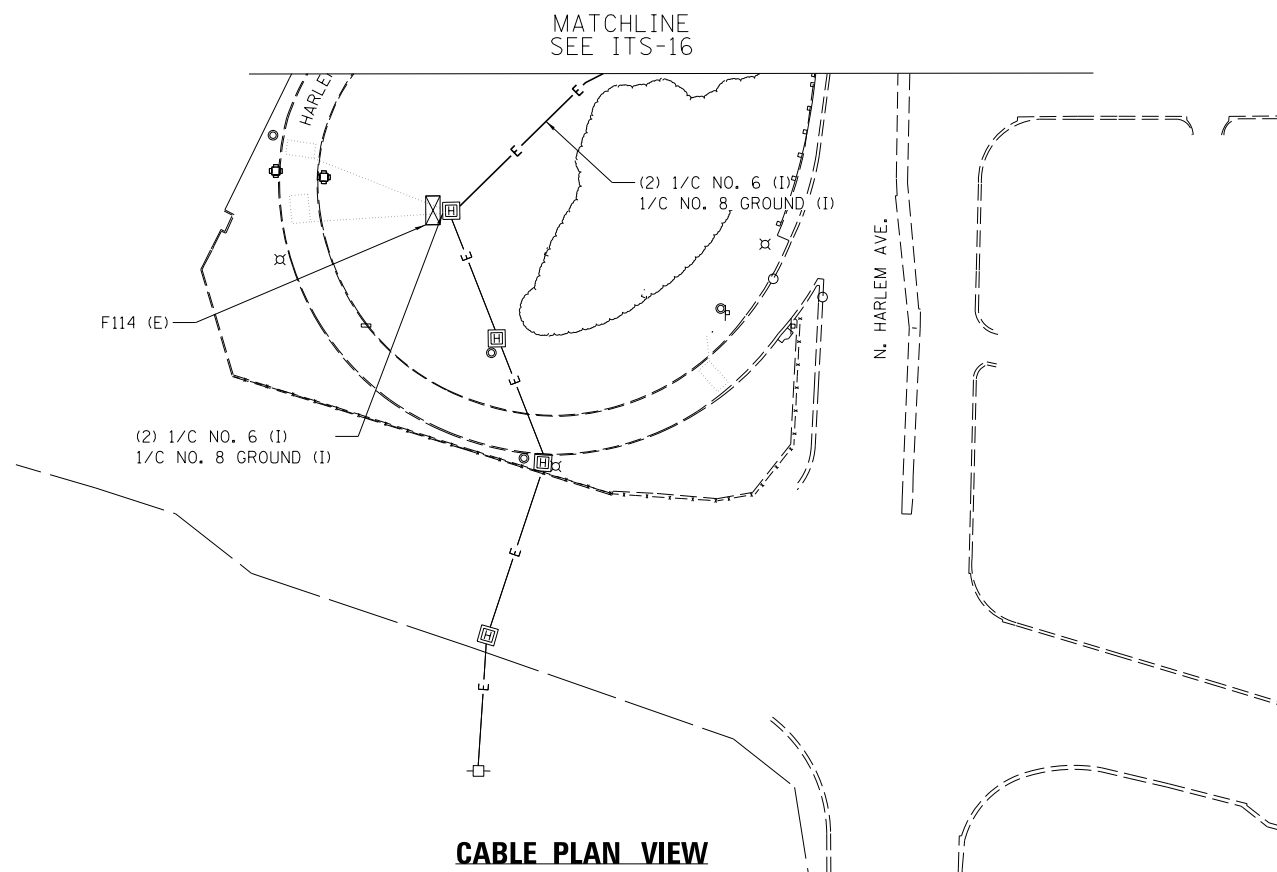
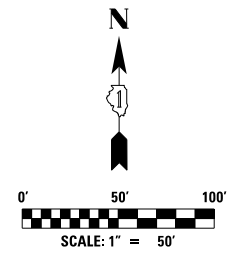
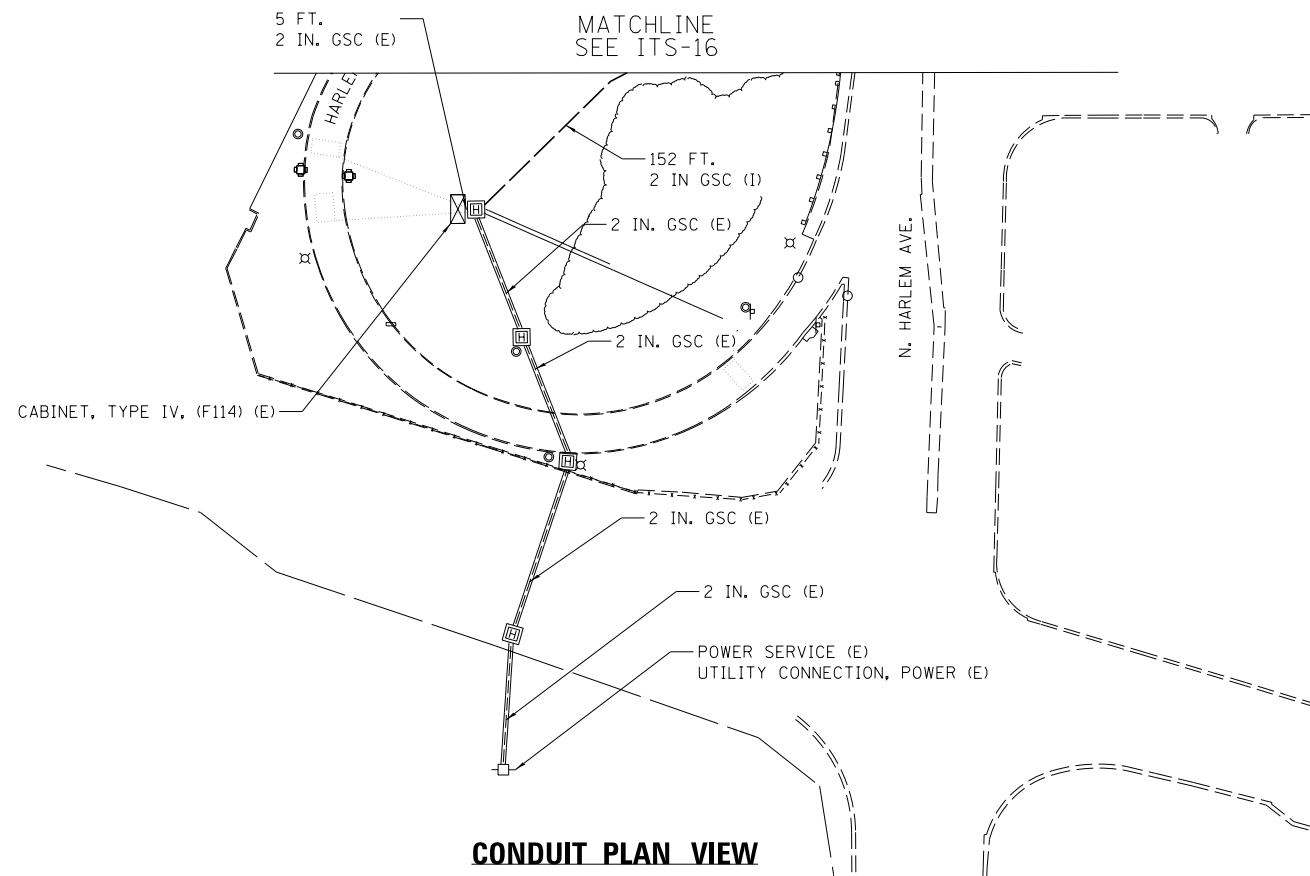
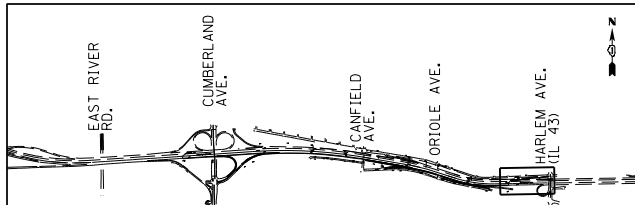
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PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EASTBOUND I-90 FROM CUMBERLAND AVE TO HARLEM AVE
ITS PROPOSED CONDUIT AND CABLE PLANS**

SCALE: 1"=50' SHEET NO. 9 OF 10 SHEETS STA. 3109+00 TO STA.

F.A.I. RTE. 90	SECTION (1517 & 1415) R-3	COUNTY COOK	TOTAL SHEETS 557	SHEET NO. 305
				CONTRACT NO. 60Y38
ILLINOIS FED. AID PROJECT				



NOTES:

1. SEE DETAIL G ON SHEET ITS-21
2. SEE DETAIL H ON SHEET ITS-21



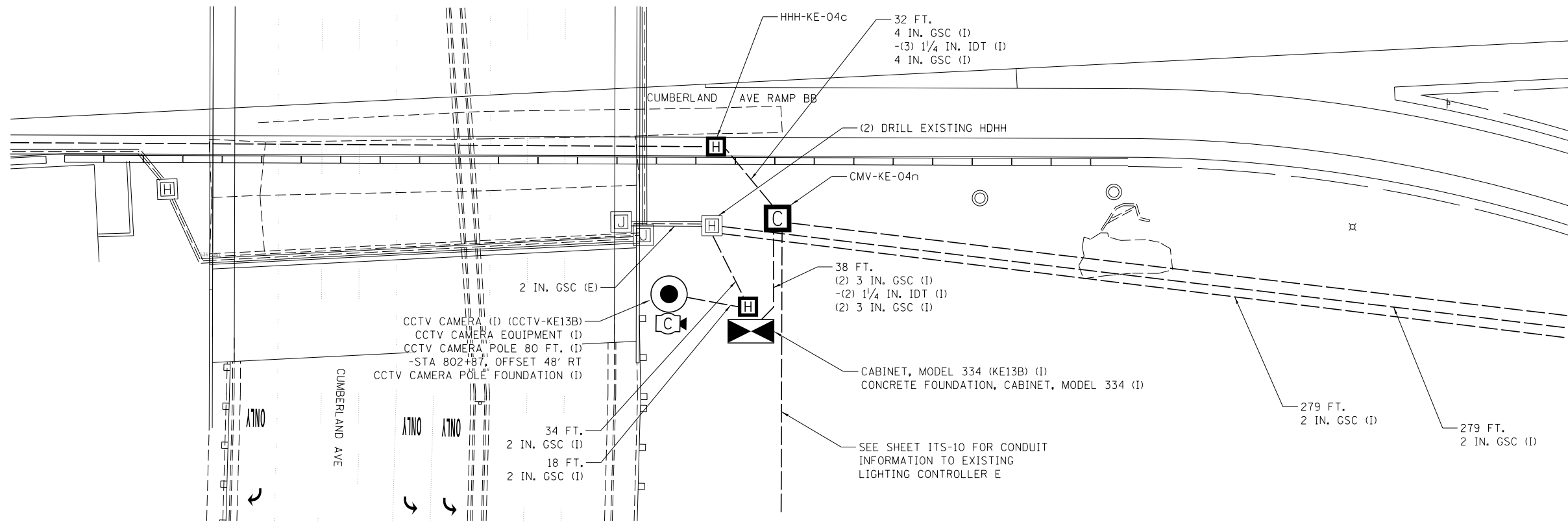
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

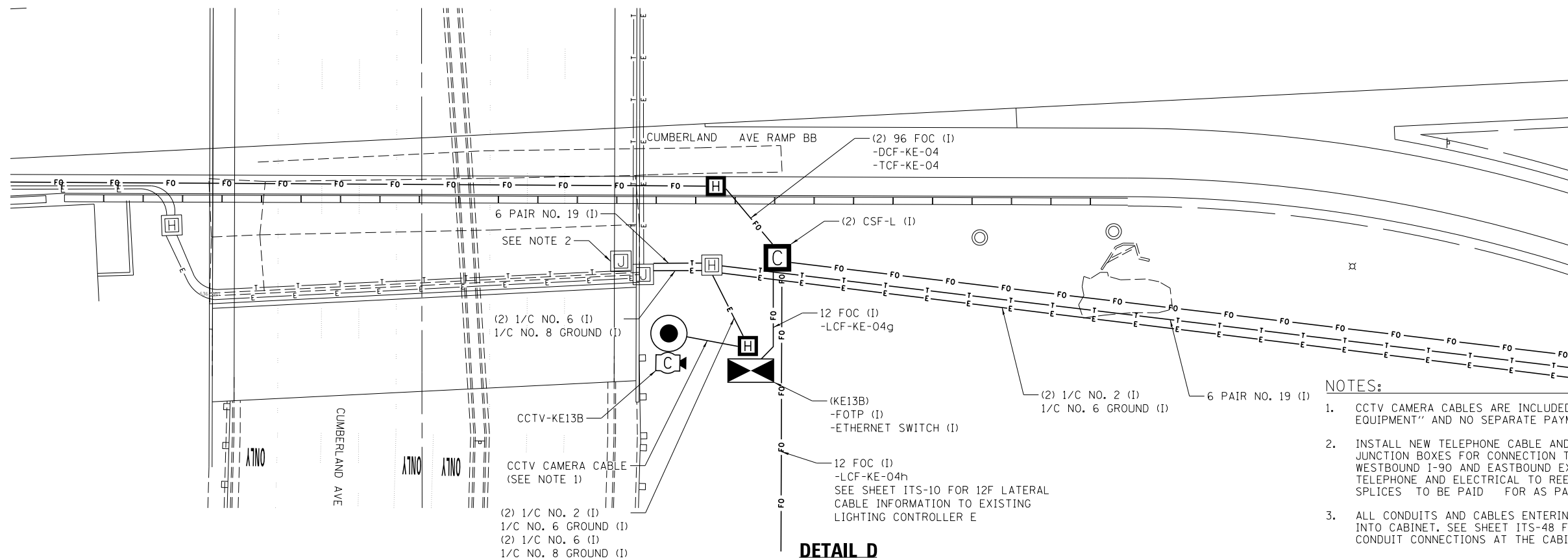
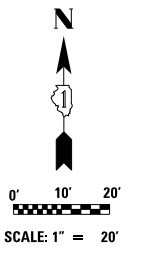
**EASTBOUND I-90 FROM CUMBERLAND AVE TO HARLEM AVE
ITS PROPOSED CONDUIT AND CABLE PLANS**

SCALE: 1"=50' SHEET NO. 10 OF 10 SHEETS STA. 3109+00 TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	306
				CONTRACT NO. 60Y38
ILLINOIS FED. AID PROJECT				

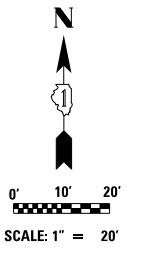


DETAIL C



DETAIL D

- NOTES:**
1. CCTV CAMERA CABLES ARE INCLUDED AS PART OF "CCTV CAMERA EQUIPMENT" AND NO SEPARATE PAYMENT WILL BE MADE.
 2. INSTALL NEW TELEPHONE CABLE AND ELECTRICAL CABLE INTO EXISTING JUNCTION BOXES FOR CONNECTION TO EXISTING EQUIPMENT ON WESTBOUND I-90 AND EASTBOUND EXIT RAMP GORE. SPLICE TO EXISTING TELEPHONE AND ELECTRICAL TO REESTABLISH COMMUNICATIONS. ALL SPLICES TO BE PAID FOR AS PART OF COST OF CABLES.
 3. ALL CONDUITS AND CABLES ENTERING HEAVY DUTY HANDHOLE PROCEED INTO CABINET. SEE SHEET ITS-48 FOR ADDITIONAL INFORMATION ON THE CONDUIT CONNECTIONS AT THE CABINET.



USER NAME = jblakley	DESIGNED RJ	REVISED -
	DRAWN RJ	REVISED -
PLOT SCALE = 1:8000 / in.	CHECKED YJ	REVISED -
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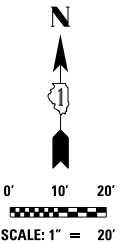
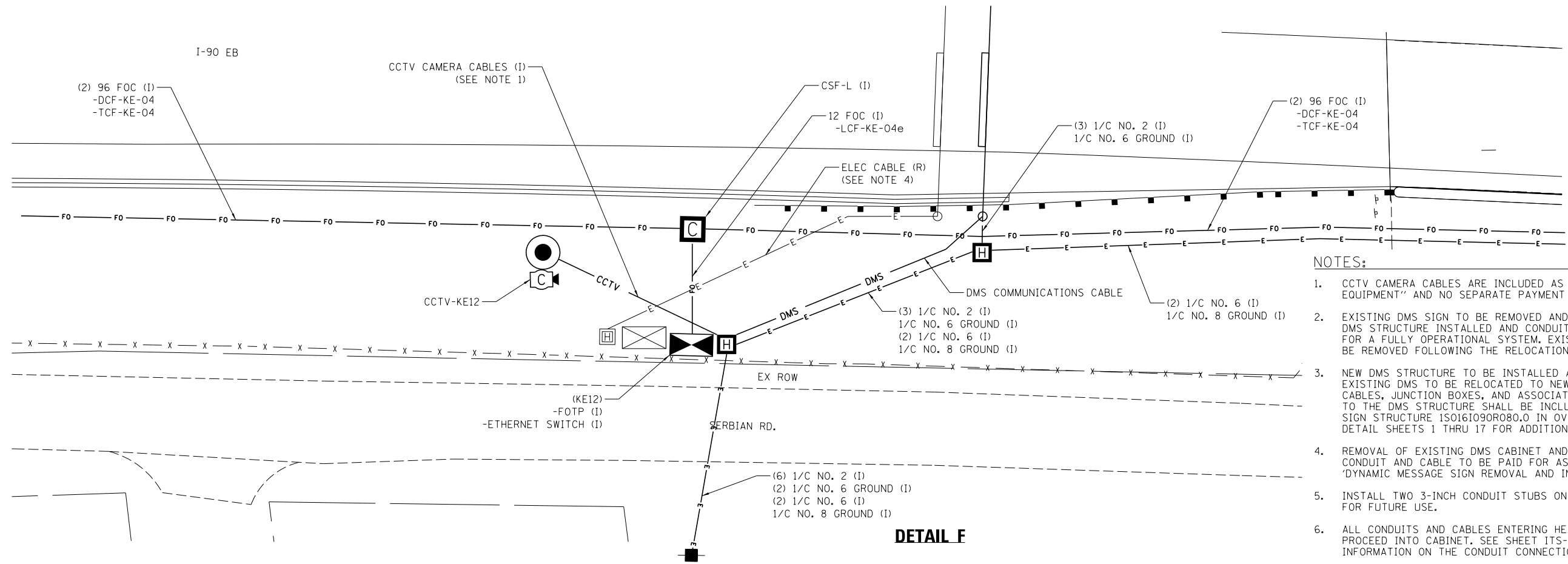
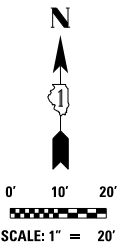
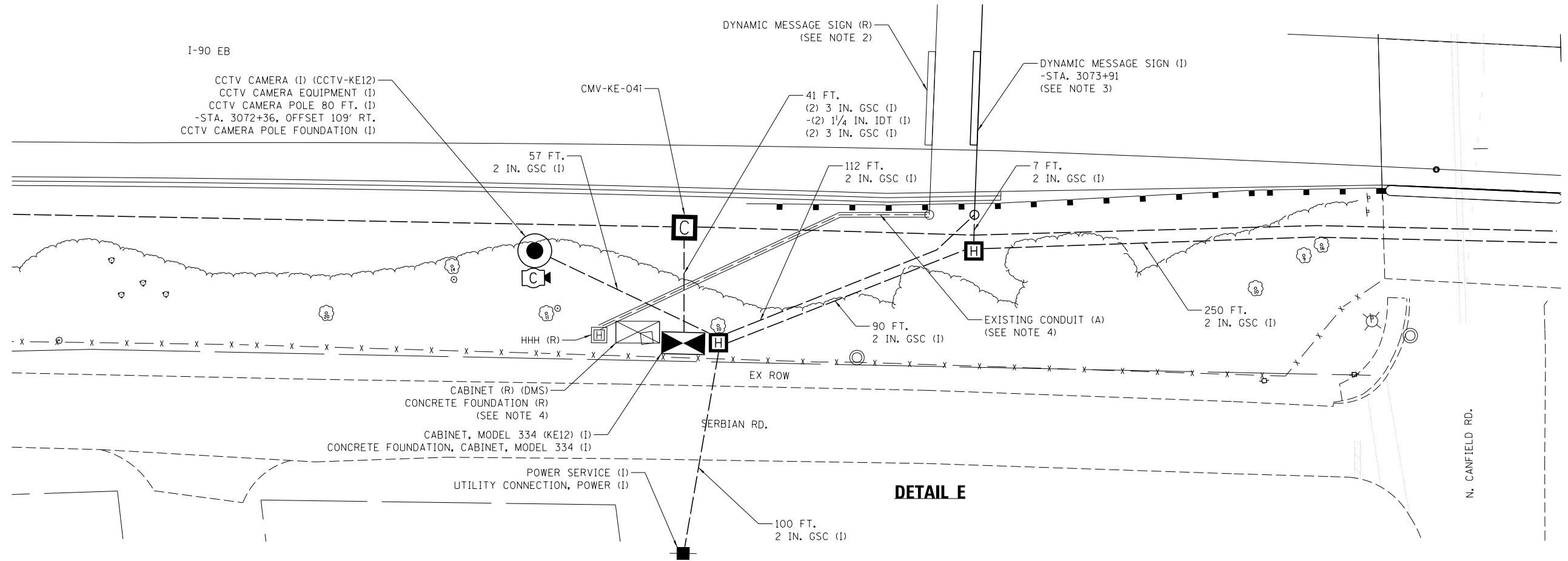
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EASTBOUND I-90 FROM CUMBERLAND AVE TO HARLEM AVE
ITS SITE INSTALLATION PLANS**

SCALE: 1"=20' SHEET NO. 2 OF 34 SHEETS STA. 3109+00 TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	308
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				

ITS-19



- NOTES:**
1. CCTV CAMERA CABLES ARE INCLUDED AS PART OF "CCTV CAMERA EQUIPMENT" AND NO SEPARATE PAYMENT WILL BE MADE.
 2. EXISTING DMS SIGN TO BE REMOVED AND REPLACED ONLY AFTER DMS STRUCTURE INSTALLED AND CONDUIT AND CABLE IN PLACE FOR A FULLY OPERATIONAL SYSTEM. EXISTING STRUCTURE TO BE REMOVED FOLLOWING THE RELOCATION OF THE DMS.
 3. NEW DMS STRUCTURE TO BE INSTALLED AT THIS LOCATION. EXISTING DMS TO BE RELOCATED TO NEW STRUCTURE. CONDUIT, CABLES, JUNCTION BOXES, AND ASSOCIATED HARDWARE MOUNTED TO THE DMS STRUCTURE SHALL BE INCLUDED WITH THE DMS. SEE SIGN STRUCTURE ISO161090R080.0 IN OVERHEAD SIGN STRUCTURE DETAIL SHEETS 1 THRU 17 FOR ADDITIONAL INFORMATION.
 4. REMOVAL OF EXISTING DMS CABINET AND ALL ASSOCIATED CONDUIT AND CABLE TO BE PAID FOR AS PART OF ITEM 'DYNAMIC MESSAGE SIGN REMOVAL AND INSTALLATION'.
 5. INSTALL TWO 3-INCH CONDUIT STUBS ON NORTH SIDE OF CABINET FOR FUTURE USE.
 6. ALL CONDUITS AND CABLES ENTERING HEAVY DUTY HANDHOLE PROCEED INTO CABINET. SEE SHEET ITS-48 FOR ADDITIONAL INFORMATION ON THE CONDUIT CONNECTIONS AT THE CABINET.

DETAIL E

DETAIL F



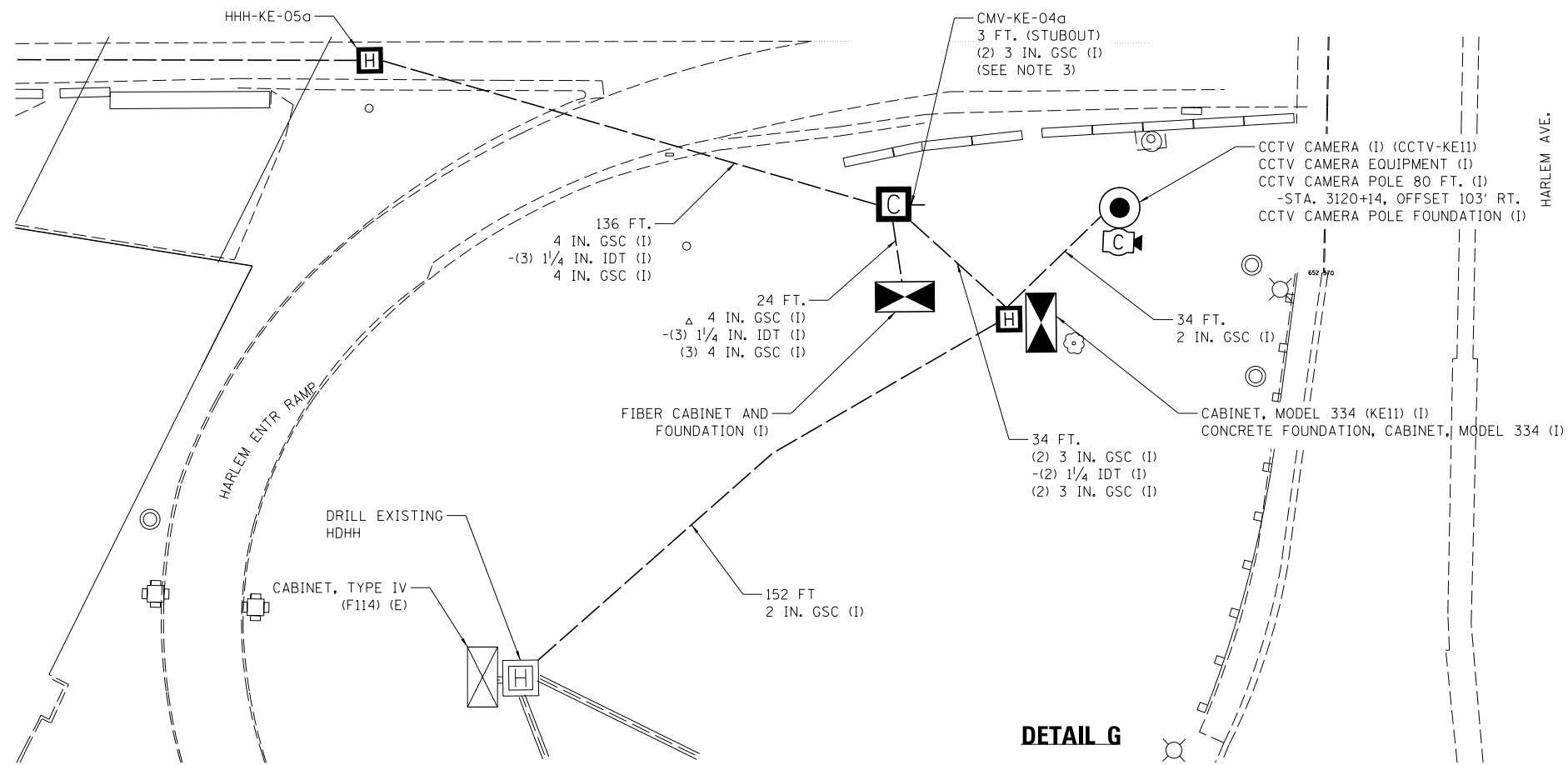
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

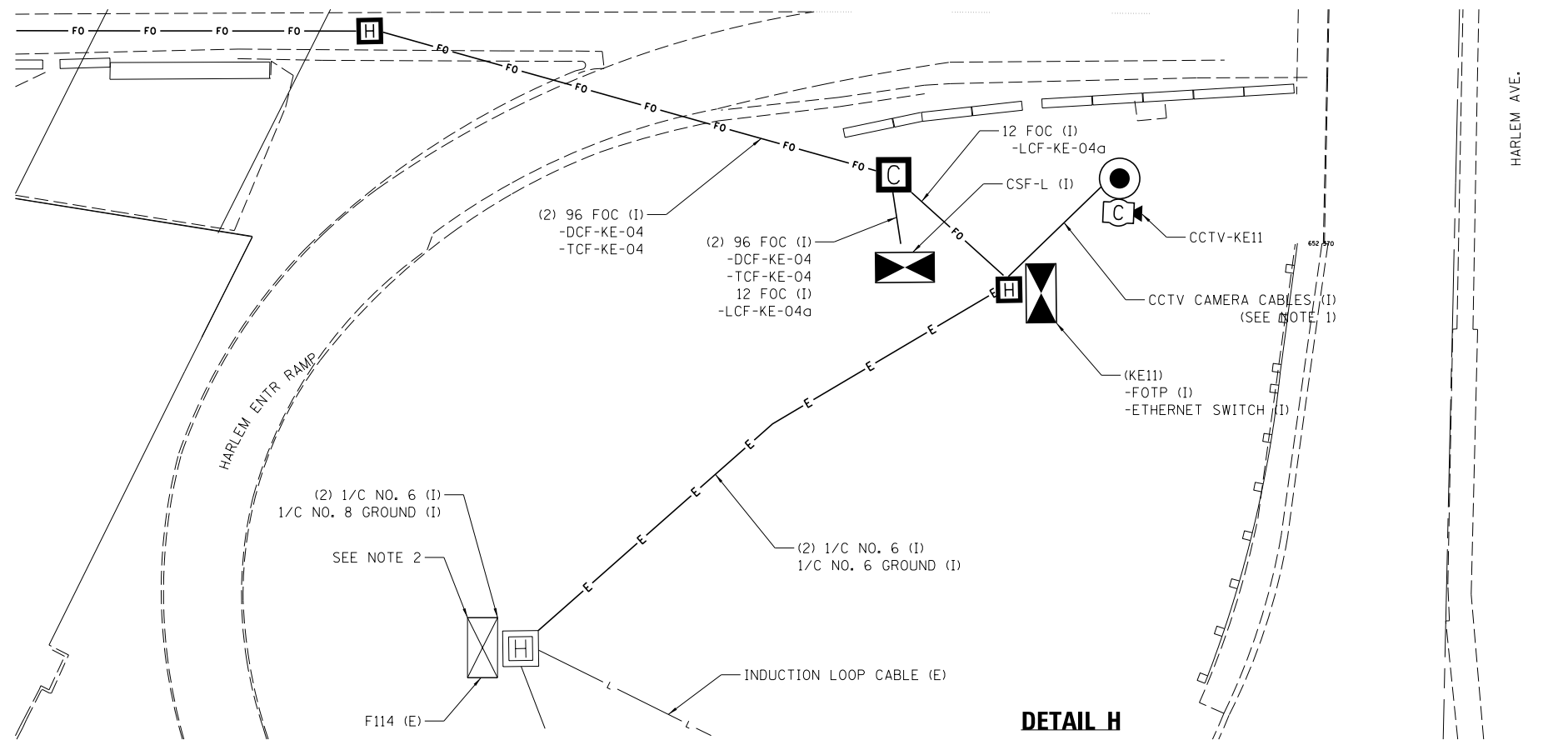
**EASTBOUND I-90 FROM CUMBERLAND AVE TO HARLEM AVE
ITS SITE INSTALLATION PLANS**

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	309
				CONTRACT NO. 60Y38
1"=20' ILLINOIS FED. AID PROJECT 34				



DETAIL G



DETAIL H

NOTES:

1. CCTV CAMERA CABLES ARE INCLUDED AS PART OF "CCTV CAMERA EQUIPMENT" AND NO SEPARATE PAYMENT WILL BE MADE.
2. SPLICE NEW ELECTRIC CABLE TO EXISTING ELECTRIC SERVICE CABLE TO PROVIDE POWER TO THE CCTV CAMERA CABINET. SPLICING SHALL BE INCLUDED AS PART OF NEW ELECTRIC CABLE.
3. INSTALL TWO 2-INCH CONDUIT STUBS ON EAST SIDE OF COMM VAULT FOR CONNECTION TO FUTURE WESTBOUND I-90 ITS FIELD DEVICES.
4. ALL CONDUITS AND CABLES ENTERING HEAVY DUTY HANDHOLE PROCEED INTO CABINET. SEE SHEET ITS-48 FOR ADDITIONAL INFORMATION ON THE CONDUIT CONNECTIONS AT THE CABINET.



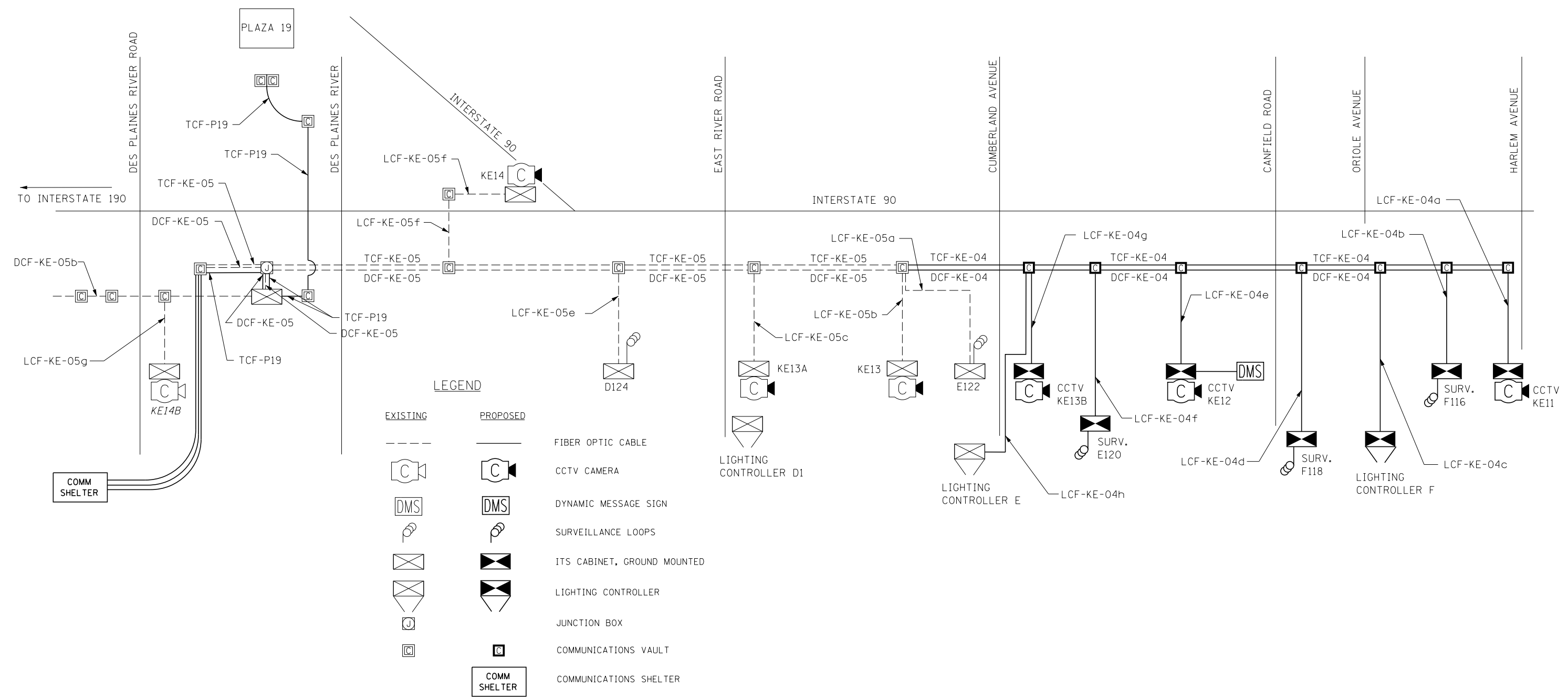
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PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EASTBOUND I-90 FROM CUMBERLAND AVE TO HARLEM AVE
ITS SITE INSTALLATION PLANS**

SCALE: 1"=20' SHEET NO. 4 OF 34 SHEETS STA. 3109+00 TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	310
				CONTRACT NO. 60Y38
ILLINOIS FED. AID PROJECT				



LEGEND

EXISTING	PROPOSED	
---	---	FIBER OPTIC CABLE
		CCTV CAMERA
		DYNAMIC MESSAGE SIGN
		SURVEILLANCE LOOPS
		ITS CABINET, GROUND MOUNTED
		LIGHTING CONTROLLER
		JUNCTION BOX
		COMMUNICATIONS VAULT
		COMMUNICATIONS SHELTER



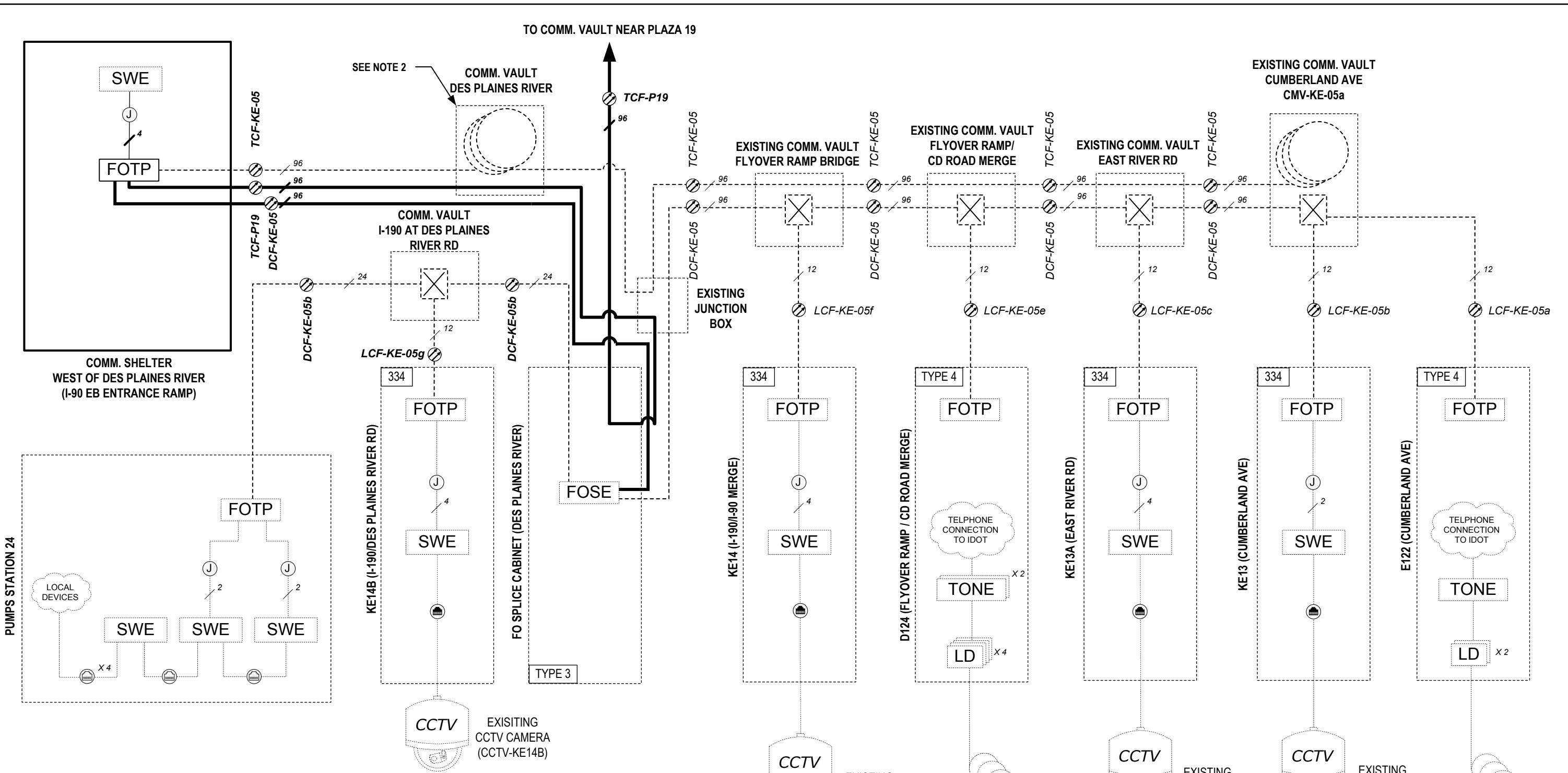
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PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SINGLE LINE FIBER DIAGRAM
EASTBOUND I-90 FROM CUMBERLAND AVE TO HARLEM AVE**

SCALE: N.T.S. SHEET NO. 5 OF 34 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	311
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				



LEGEND

	TWISTED PAIR COPPER CABLE		CELLULAR MODEM
	UNSHIELDED CAT-5E CABLE		TONE RACK EQUIPMENT
	SHIELDED CAT-5E CABLE		INDUCTION LOOP (NO. OF LOOPS)
	FIBER OPTIC JUMPER (NO. OF JUMPERS)		INDUCTIVE LOOP DETECTOR (NO. OF LOOP DETECTOR UNITS)
	FIBER OPTIC CABLE, SINGLE MODE (STRAND COUNT)		ETHERNET SWITCH
	FIBER OPTIC SPLICE CLOSURE		TEMPORARY VEHICLE DETECTION SYSTEM
	FIBER OPTIC SPLICE ENCLOSURE		CCTV CAMERA
	FIBER OPTIC TERMINATION PANEL, 12F OR 24F		
	TERMINAL SERVER		

- NOTES:
- DASHED LINES INDICATED EXISTING EQUIPMENT, CABLES, AND ENCLOSURES
 - 700 FEET OF FOC SLACK AVAILABLE IN EXISTING COMMUNICATIONS VAULT FOR CONNECTION TO NEW COMMUNICATIONS SHELTER.
 - ETHERNET SWITCHES HAVE GIGABIT FIBER OPTIC PORTS.
 - NOT ALL COMMUNICATIONS VAULTS ARE SHOWN FOR CLARITY.
 - JUMPER CABLES USED FOR PATCHING THROUGH FIBER CONNECTIONS NOW SHOWN. SEE SPlicing TABLES FOR MORE DETAIL.



USER NAME = \$USERS\$	DESIGNED RJ	REVISED -
DRAWN RJ	REVISED -	
PLOT SCALE = \$SCALES\$	CHECKED YJ	REVISED -
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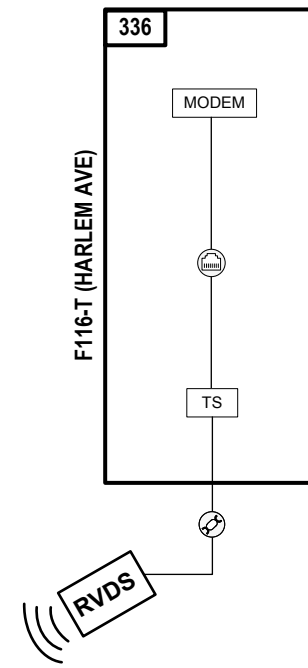
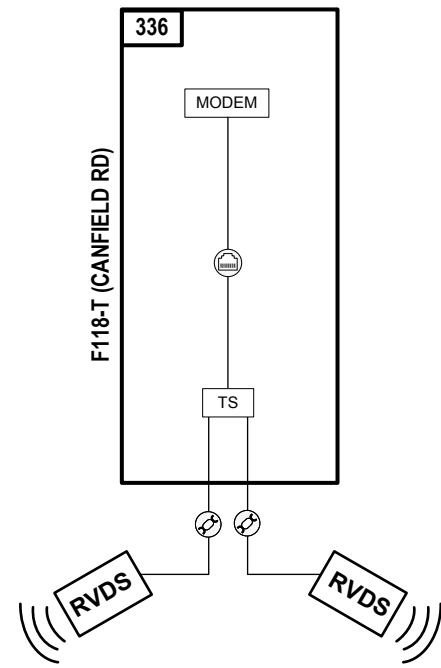
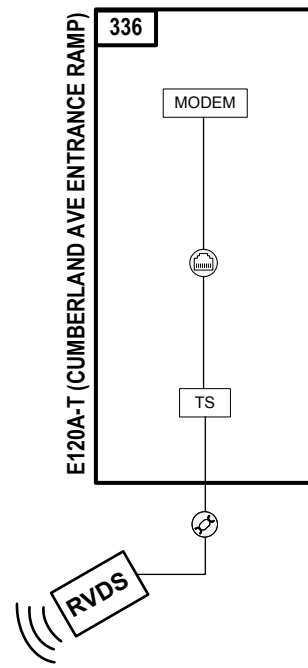
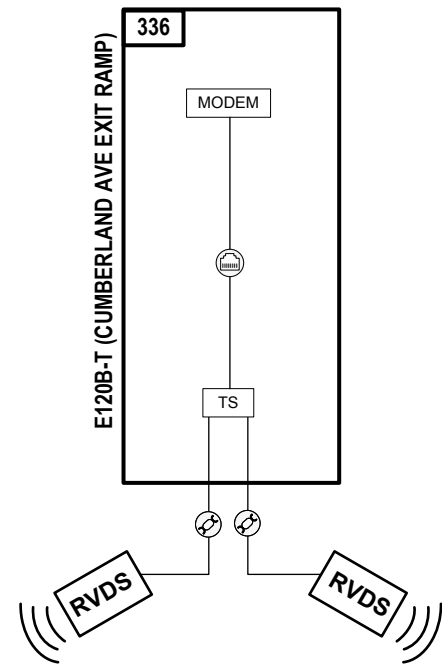
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADVANCE COMMUNICATIONS OVERVIEW PLAN

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	312
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				

ITS-23



LEGEND	
	TWISTED PAIR COPPER CABLE
	UNSHIELDED CAT-5E CABLE
	SHIELDED CAT-5E CABLE
	FIBER OPTIC JUMPER (NO. OF JUMPERS)
	FIBER OPTIC CABLE, SINGLE MODE (STRAND COUNT)
	FIBER OPTIC SPLICE CLOSURE
	FIBER OPTIC SPLICE ENCLOSURE
	FIBER OPTIC TERMINATION PANEL, 12F OR 24F
	TERMINAL SERVER
	CELLULAR MODEM
	TONE RACK EQUIPMENT
	INDUCTION LOOP (NO. OF LOOPS)
	INDUCTIVE LOOP DETECTOR (NO. OF LOOP DETECTOR UNITS)
	ETHERNET SWITCH
	TEMPORARY VEHICLE DETECTION SYSTEM
	CCTV CAMERA



USER NAME = \$USERS\$	DESIGNED RJ	REVISED -
	DRAWN RJ	REVISED -
PLOT SCALE = \$SCALES\$	CHECKED YJ	REVISED -
PLOT DATE = \$DATES\$	DATE 5/6/16	REVISED -

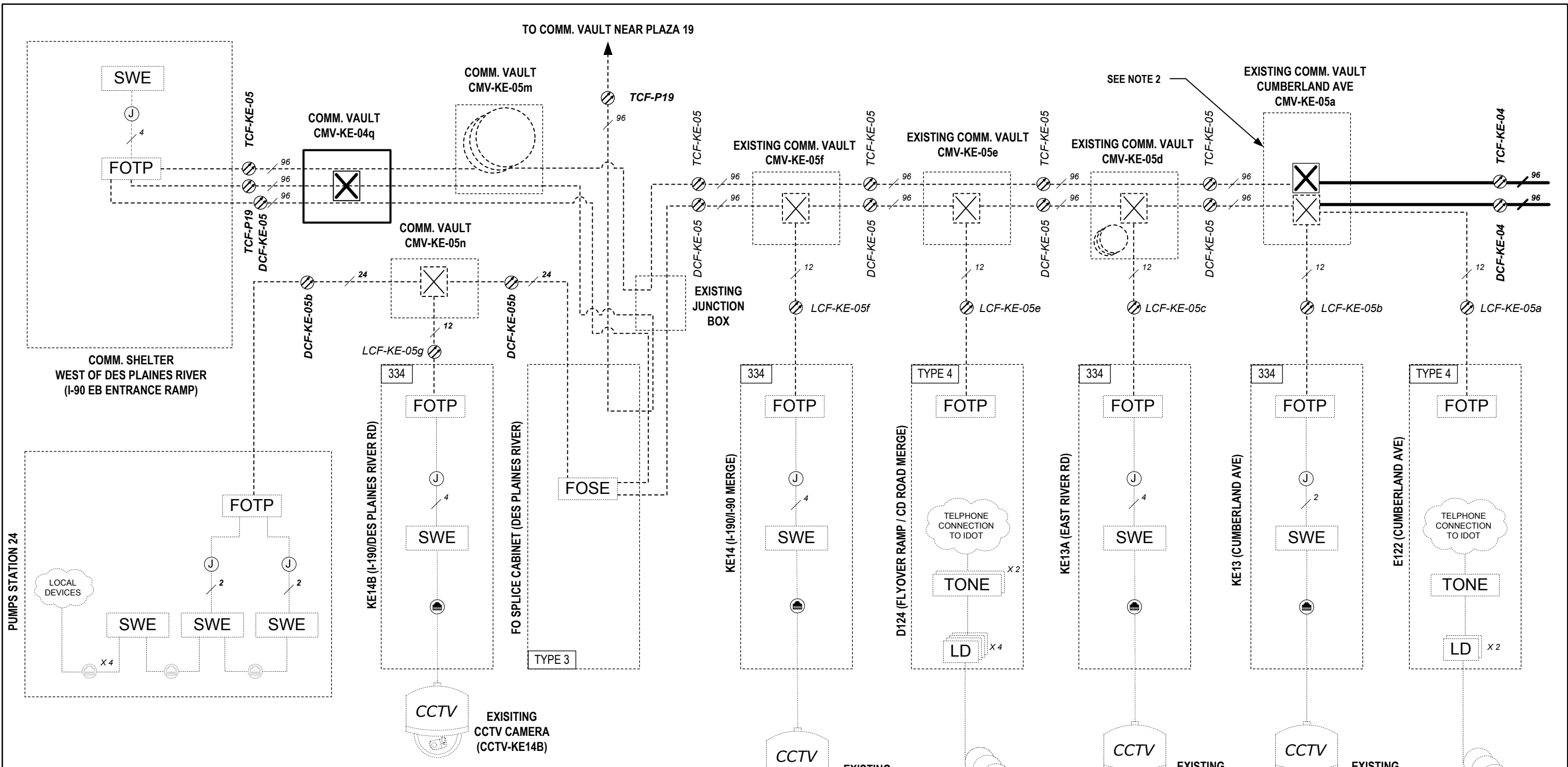
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADVANCE COMMUNICATIONS OVERVIEW PLAN

SCALE: SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	313
CONTRACT NO. 60Y38			ILLINOIS FED. AID PROJECT	

ITS-24



LEGEND

	TWISTED PAIR COPPER CABLE		CELLULAR MODEM
	UNSHIELDED CAT-5E CABLE		TONE RACK EQUIPMENT
	SHIELDED CAT-5E CABLE		INDUCTION LOOP (NO. OF LOOPS)
	FIBER OPTIC JUMPER (NO. OF JUMPERS)		INDUCTIVE LOOP DETECTOR (NO. OF LOOP DETECTOR UNITS)
	FIBER OPTIC CABLE, SINGLE MODE (STRAND COUNT)		ETHERNET SWITCH
	FIBER OPTIC SPLICE CLOSURE		TEMPORARY VEHICLE DETECTION SYSTEM
	FIBER OPTIC SPLICE ENCLOSURE		CCTV CAMERA
	FIBER OPTIC TERMINATION PANEL, 12F OR 24F		
	TERMINAL SERVER		

- NOTES:
- DASHED LINES INDICATED EXISTING EQUIPMENT, CABLES, AND ENCLOSURES
 - 100 FEET OF FOC SLACK AVAILABLE IN EXISTING COMMUNICATIONS VAULT FOR SPLICING TO NEW FIBER FOR NEW DEVICES TO THE EAST.
 - ETHERNET SWITCHES HAVE GIGABIT FIBER OPTIC PORTS.
 - NOT ALL COMMUNICATIONS VAULTS ARE SHOWN FOR CLARITY.
 - JUMPER CABLES USED FOR PATCHING THROUGH FIBER CONNECTIONS NOW SHOWN. SEE SPLICING TABLES FOR MORE DETAIL.



USER NAME = \$USERS\$	DESIGNED RJ	REVISED -
DRAWN RJ	REVISED -	
PLOT SCALE = \$SCALES\$	CHECKED YJ	REVISED -
PLOT DATE = \$DATES\$	DATE 5/6/16	REVISED -

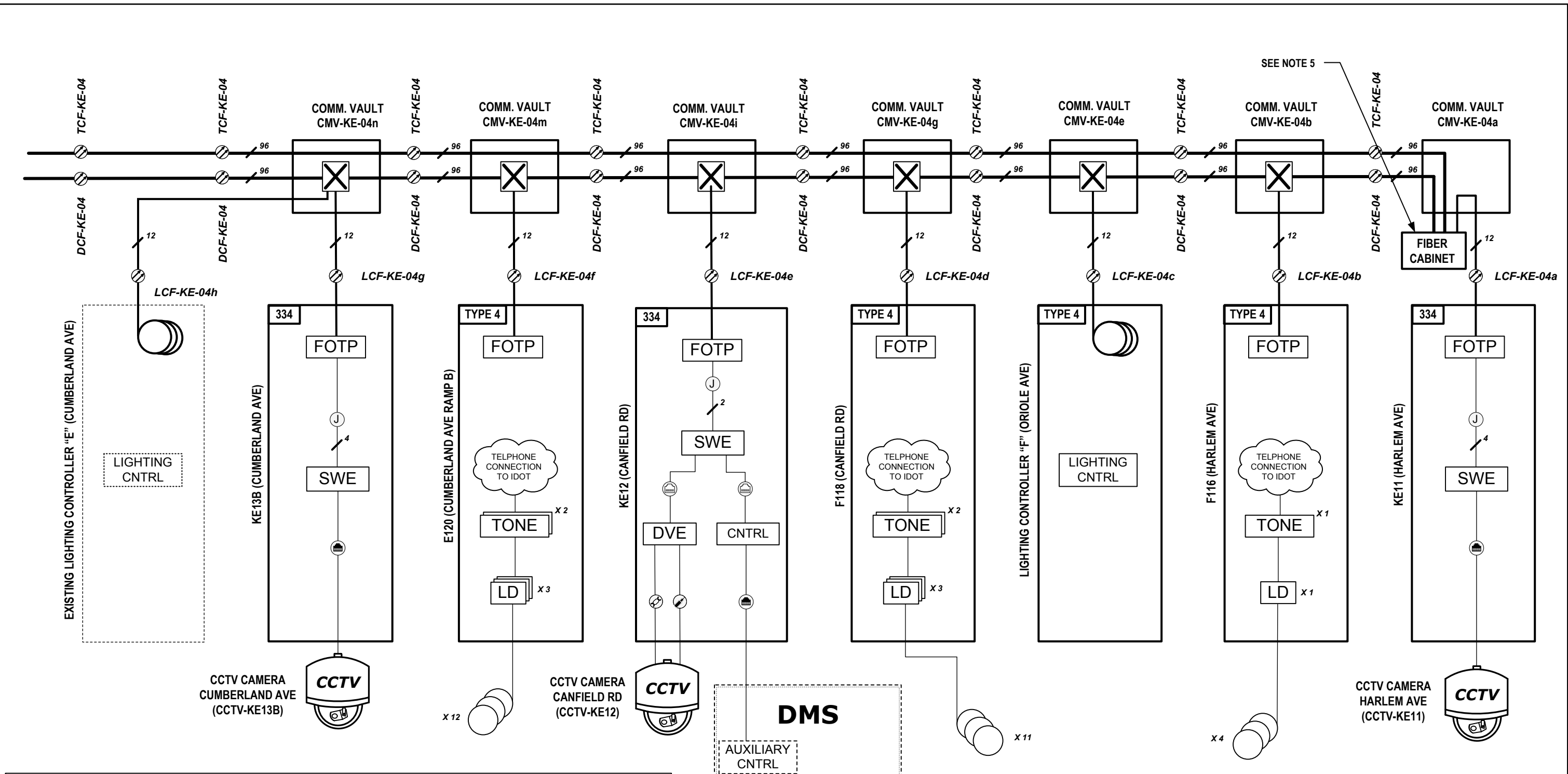
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FINAL COMMUNICATIONS OVERVIEW PLAN

SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	314
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				

ITS-25



LEGEND	
	TWISTED PAIR COPPER CABLE
	UNSHIELDED CAT-5E CABLE
	SHIELDED CAT-5E CABLE
	FIBER OPTIC JUMPER (NO. OF JUMPERS)
	FIBER OPTIC CABLE, SINGLE MODE (STRAND COUNT)
	FIBER OPTIC SPLICE CLOSURE
	FIBER OPTIC SPLICE ENCLOSURE
	FIBER OPTIC TERMINATION PANEL, 12F OR 24F
	TERMINAL SERVER
	MODEM
	CELLULAR MODEM
	TONE RACK EQUIPMENT
	INDUCTION LOOP (NO. OF LOOPS)
	INDUCTIVE LOOP DETECTOR (NO. OF LOOP DETECTOR UNITS)
	ETHERNET SWITCH
	TEMPORARY VEHICLE DETECTION SYSTEM
	CCTV CAMERA

- NOTES:
- DASHED LINES INDICATED EXISTING EQUIPMENT, CABLES, AND ENCLOSURES
 - NEW ETHERNET SWITCHES HAVE GIGABIT FIBER OPTIC PORTS.
 - NOT ALL COMMUNICATIONS VAULTS ARE SHOWN FOR CLARITY.
 - JUMPER CABLES USED FOR PATCHING THROUGH FIBER CONNECTIONS NOW SHOWN. SEE SPLICING TABLES FOR MORE DETAIL.
 - SPLICE FIBER LATERAL TO FIBER DISTRIBUTION CABLE IN FIBER INTERCONNECT CABINET.



USER NAME = \$USERS\$	DESIGNED RJ	REVISED -
DRAWN RJ	REVISED -	
CHECKED YJ	REVISED -	
DATE 5/6/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FINAL COMMUNICATIONS OVERVIEW PLAN

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	315
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				

TRUNK CABLE FIBER ASSIGNMENTS				ORIGINATION		COMM. VAULT (NEW COMM. SHELTER)	
TRUNK CABLE DESIGNATION			TCF-KE-04	DESTINATION		COMM. VAULT (CUMBERLAND AVE CMV-KE-05a)	
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue	1	TCF-KE-05, BLU/BLU	SLATE	Blue	49	TCF-KE-05, SLA/BLU
	Orange	2	TCF-KE-05, BLU/ORA		Orange	50	TCF-KE-05, SLA/ORA
	Green	3	TCF-KE-05, BLU/GRE		Green	51	TCF-KE-05, SLA/GRE
	Brown	4	TCF-KE-05, BLU/BRO		Brown	52	TCF-KE-05, SLA/BRO
	Slate	5	TCF-KE-05, BLU/SLA		Slate	53	TCF-KE-05, SLA/SLA
	White	6	TCF-KE-05, BLU/WHI		White	54	TCF-KE-05, SLA/WHI
	Red	7	TCF-KE-05, BLU/RED		Red	55	TCF-KE-05, SLA/RED
	Black	8	TCF-KE-05, BLU/BLA		Black	56	TCF-KE-05, SLA/BLA
	Yellow	9	TCF-KE-05, BLU/YEL		Yellow	57	TCF-KE-05, SLA/YEL
	Violet	10	TCF-KE-05, BLU/VIO		Violet	58	TCF-KE-05, SLA/VIO
	Rose	11	TCF-KE-05, BLU/ROS		Rose	59	TCF-KE-05, SLA/ROS
	Aqua	12	TCF-KE-05, BLU/AQU		Aqua	60	TCF-KE-05, SLA/AQU
ORANGE	Blue	13	TCF-KE-05, ORA/BLU	WHITE	Blue	61	TCF-KE-05, WHI/BLU
	Orange	14	TCF-KE-05, ORA/ORA		Orange	62	TCF-KE-05, WHI/ORA
	Green	15	TCF-KE-05, ORA/GRE		Green	63	TCF-KE-05, WHI/GRE
	Brown	16	TCF-KE-05, ORA/BRO		Brown	64	TCF-KE-05, WHI/BRO
	Slate	17	TCF-KE-05, ORA/SLA		Slate	65	TCF-KE-05, WHI/SLA
	White	18	TCF-KE-05, ORA/WHI		White	66	TCF-KE-05, WHI/WHI
	Red	19	TCF-KE-05, ORA/RED		Red	67	TCF-KE-05, WHI/RED
	Black	20	TCF-KE-05, ORA/BLA		Black	68	TCF-KE-05, WHI/BLA
	Yellow	21	TCF-KE-05, ORA/YEL		Yellow	69	TCF-KE-05, WHI/YEL
	Violet	22	TCF-KE-05, ORA/VIO		Violet	70	TCF-KE-05, WHI/VIO
	Rose	23	TCF-KE-05, ORA/ROS		Rose	71	TCF-KE-05, WHI/ROS
	Aqua	24	TCF-KE-05, ORA/AQU		Aqua	72	TCF-KE-05, WHI/AQU
GREEN	Blue	25	TCF-KE-05, GRE/BLU	RED	Blue	73	TCF-KE-05, RED/BLU
	Orange	26	TCF-KE-05, GRE/ORA		Orange	74	TCF-KE-05, RED/ORA
	Green	27	TCF-KE-05, GRE/GRE		Green	75	TCF-KE-05, RED/GRE
	Brown	28	TCF-KE-05, GRE/BRO		Brown	76	TCF-KE-05, RED/BRO
	Slate	29	TCF-KE-05, GRE/SLA		Slate	77	TCF-KE-05, RED/SLA
	White	30	TCF-KE-05, GRE/WHI		White	78	TCF-KE-05, RED/WHI
	Red	31	TCF-KE-05, GRE/RED		Red	79	TCF-KE-05, RED/RED
	Black	32	TCF-KE-05, GRE/BLA		Black	80	TCF-KE-05, RED/BLA
	Yellow	33	TCF-KE-05, GRE/YEL		Yellow	81	TCF-KE-05, RED/YEL
	Violet	34	TCF-KE-05, GRE/VIO		Violet	82	TCF-KE-05, RED/VIO
	Rose	35	TCF-KE-05, GRE/ROS		Rose	83	TCF-KE-05, RED/ROS
	Aqua	36	TCF-KE-05, GRE/AQU		Aqua	84	TCF-KE-05, RED/AQU
BROWN	Blue	37	TCF-KE-05, BRO/BLU	BLACK	Blue	85	TCF-KE-05, BLA/BLU
	Orange	38	TCF-KE-05, BRO/ORA		Orange	86	TCF-KE-05, BLA/ORA
	Green	39	TCF-KE-05, BRO/GRE		Green	87	TCF-KE-05, BLA/GRE
	Brown	40	TCF-KE-05, BRO/BRO		Brown	88	TCF-KE-05, BLA/BRO
	Slate	41	TCF-KE-05, BRO/SLA		Slate	89	TCF-KE-05, BLA/SLA
	White	42	TCF-KE-05, BRO/WHI		White	90	TCF-KE-05, BLA/WHI
	Red	43	TCF-KE-05, BRO/RED		Red	91	TCF-KE-05, BLA/RED
	Black	44	TCF-KE-05, BRO/BLA		Black	92	TCF-KE-05, BLA/BLA
	Yellow	45	TCF-KE-05, BRO/YEL		Yellow	93	TCF-KE-05, BLA/YEL
	Violet	46	TCF-KE-05, BRO/VIO		Violet	94	TCF-KE-05, BLA/VIO
	Rose	47	TCF-KE-05, BRO/ROS		Rose	95	TCF-KE-05, BLA/ROS
	Aqua	48	TCF-KE-05, BRO/AQU		Aqua	96	TCF-KE-05, BLA/AQU

TRUNK CABLE FIBER ASSIGNMENTS				ORIGINATION			
TRUNK CABLE DESIGNATION			TCF-KE-04	DESTINATION			COMM. VAULT (FUTURE CABLE)
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue	1	CAPPED AND COILED	SLATE	Blue	49	CAPPED AND COILED
	Orange	2	CAPPED AND COILED		Orange	50	CAPPED AND COILED
	Green	3	CAPPED AND COILED		Green	51	CAPPED AND COILED
	Brown	4	CAPPED AND COILED		Brown	52	CAPPED AND COILED
	Slate	5	CAPPED AND COILED		Slate	53	CAPPED AND COILED
	White	6	CAPPED AND COILED		White	54	CAPPED AND COILED
	Red	7	CAPPED AND COILED		Red	55	CAPPED AND COILED
	Black	8	CAPPED AND COILED		Black	56	CAPPED AND COILED
	Yellow	9	CAPPED AND COILED		Yellow	57	CAPPED AND COILED
	Violet	10	CAPPED AND COILED		Violet	58	CAPPED AND COILED
	Rose	11	CAPPED AND COILED		Rose	59	CAPPED AND COILED
	Aqua	12	CAPPED AND COILED		Aqua	60	CAPPED AND COILED
ORANGE	Blue	13	CAPPED AND COILED	WHITE	Blue	61	CAPPED AND COILED
	Orange	14	CAPPED AND COILED		Orange	62	CAPPED AND COILED
	Green	15	CAPPED AND COILED		Green	63	CAPPED AND COILED
	Brown	16	CAPPED AND COILED		Brown	64	CAPPED AND COILED
	Slate	17	CAPPED AND COILED		Slate	65	CAPPED AND COILED
	White	18	CAPPED AND COILED		White	66	CAPPED AND COILED
	Red	19	CAPPED AND COILED		Red	67	CAPPED AND COILED
	Black	20	CAPPED AND COILED		Black	68	CAPPED AND COILED
	Yellow	21	CAPPED AND COILED		Yellow	69	CAPPED AND COILED
	Violet	22	CAPPED AND COILED		Violet	70	CAPPED AND COILED
	Rose	23	CAPPED AND COILED		Rose	71	CAPPED AND COILED
	Aqua	24	CAPPED AND COILED		Aqua	72	CAPPED AND COILED
GREEN	Blue	25	CAPPED AND COILED	RED	Blue	73	CAPPED AND COILED
	Orange	26	CAPPED AND COILED		Orange	74	CAPPED AND COILED
	Green	27	CAPPED AND COILED		Green	75	CAPPED AND COILED
	Brown	28	CAPPED AND COILED		Brown	76	CAPPED AND COILED
	Slate	29	CAPPED AND COILED		Slate	77	CAPPED AND COILED
	White	30	CAPPED AND COILED		White	78	CAPPED AND COILED
	Red	31	CAPPED AND COILED		Red	79	CAPPED AND COILED
	Black	32	CAPPED AND COILED		Black	80	CAPPED AND COILED
	Yellow	33	CAPPED AND COILED		Yellow	81	CAPPED AND COILED
	Violet	34	CAPPED AND COILED		Violet	82	CAPPED AND COILED
	Rose	35	CAPPED AND COILED		Rose	83	CAPPED AND COILED
	Aqua	36	CAPPED AND COILED		Aqua	84	CAPPED AND COILED
BROWN	Blue	37	CAPPED AND COILED	BLACK	Blue	85	CAPPED AND COILED
	Orange	38	CAPPED AND COILED		Orange	86	CAPPED AND COILED
	Green	39	CAPPED AND COILED		Green	87	CAPPED AND COILED
	Brown	40	CAPPED AND COILED		Brown	88	CAPPED AND COILED
	Slate	41	CAPPED AND COILED		Slate	89	CAPPED AND COILED
	White	42	CAPPED AND COILED		White	90	CAPPED AND COILED
	Red	43	CAPPED AND COILED		Red	91	CAPPED AND COILED
	Black	44	CAPPED AND COILED		Black	92	CAPPED AND COILED
	Yellow	45	CAPPED AND COILED		Yellow	93	CAPPED AND COILED
	Violet	46	CAPPED AND COILED		Violet	94	CAPPED AND COILED
	Rose	47	CAPPED AND COILED		Rose	95	CAPPED AND COILED
	Aqua	48	CAPPED AND COILED		Aqua	96	CAPPED AND COILED



USER NAME = jblakley	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED - YJ	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRUNK CABLE FIBER ASSIGNMENTS TCF-KE-04
FIBER OPTIC INTERCONNECT CABINET FIC-KE-04a**

SCALE: N.T.S. SHEET NO. 7 OF 34 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	317
			CONTRACT NO. 60Y38	
ILLINOIS FED. AID PROJECT				

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	FIBER OPTIC SPLICE CLOSURE FOR KE13			
DISTRIBUTION CABLE DESIGNATION				DESTINATION	FIBER OPTIC SPLICE CLOSURE FOR KE13B			
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	
BLUE	Blue	1	LCF-KE-04g, BLU/BLU	SLATE	Blue	1	UNCUT, PASS THRU	
	Orange	2	LCF-KE-04g, BLU/ORA		Orange	2	50	UNCUT, PASS THRU
	Green	3	SPLICE THRU		Green	3	51	UNCUT, PASS THRU
	Brown	4	SPLICE THRU		Brown	4	52	UNCUT, PASS THRU
	Slate	5	SPLICE THRU		Slate	5	53	UNCUT, PASS THRU
	White	6	SPLICE THRU		White	6	54	UNCUT, PASS THRU
	Red	7	SPLICE THRU		Red	7	55	UNCUT, PASS THRU
	Black	8	SPLICE THRU		Black	8	56	UNCUT, PASS THRU
	Yellow	9	SPLICE THRU		Yellow	9	57	UNCUT, PASS THRU
	Violet	10	SPLICE THRU		Violet	10	58	UNCUT, PASS THRU
	Rose	11	SPLICE THRU		Rose	11	59	UNCUT, PASS THRU
	Aqua	12	SPLICE THRU		Aqua	12	60	UNCUT, PASS THRU
ORANGE	Blue	1	UNCUT, PASS THRU	WHITE	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	62	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	63	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	64	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	65	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	66	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	67	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	68	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	69	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	70	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	71	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	72	UNCUT, PASS THRU
GREEN	Blue	1	UNCUT, PASS THRU	RED	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	74	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	75	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	76	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	77	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	78	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	79	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	80	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	81	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	82	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	83	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	84	UNCUT, PASS THRU
BROWN	Blue	1	UNCUT, PASS THRU	BLACK	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	86	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	87	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	88	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	89	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	90	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	91	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	92	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	93	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	94	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	95	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	96	UNCUT, PASS THRU

DCF-KE-04 FROM THE WEST

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	FIBER OPTIC SPLICE CLOSURE FOR E120			
DISTRIBUTION CABLE DESIGNATION				DESTINATION	FIBER OPTIC SPLICE CLOSURE FOR KE13B			
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	
BLUE	Blue	1	LCF-KE-04g, BLU/GRE	SLATE	Blue	1	UNCUT, PASS THRU	
	Orange	2	LCF-KE-04g, BLU/BRO		Orange	2	50	UNCUT, PASS THRU
	Green	3	SPLICE THRU		Green	3	51	UNCUT, PASS THRU
	Brown	4	SPLICE THRU		Brown	4	52	UNCUT, PASS THRU
	Slate	5	SPLICE THRU		Slate	5	53	UNCUT, PASS THRU
	White	6	SPLICE THRU		White	6	54	UNCUT, PASS THRU
	Red	7	SPLICE THRU		Red	7	55	UNCUT, PASS THRU
	Black	8	SPLICE THRU		Black	8	56	UNCUT, PASS THRU
	Yellow	9	SPLICE THRU		Yellow	9	57	UNCUT, PASS THRU
	Violet	10	SPLICE THRU		Violet	10	58	UNCUT, PASS THRU
	Rose	11	SPLICE THRU		Rose	11	59	UNCUT, PASS THRU
	Aqua	12	SPLICE THRU		Aqua	12	60	UNCUT, PASS THRU
ORANGE	Blue	1	UNCUT, PASS THRU	WHITE	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	62	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	63	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	64	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	65	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	66	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	67	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	68	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	69	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	70	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	71	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	72	UNCUT, PASS THRU
GREEN	Blue	1	UNCUT, PASS THRU	RED	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	74	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	75	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	76	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	77	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	78	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	79	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	80	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	81	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	82	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	83	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	84	UNCUT, PASS THRU
BROWN	Blue	1	UNCUT, PASS THRU	BLACK	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	86	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	87	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	88	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	89	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	90	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	91	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	92	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	93	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	94	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	95	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	96	UNCUT, PASS THRU

DCF-KE-04 FROM THE EAST



USER NAME = jblakley	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED - YJ	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRIBUTION CABLE FIBER ASSIGNMENTS
FIBER OPTIC SPLICE CLOSURE FOR CMV-KE-04n
(CUMBERLAND CCTV)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	318
				CONTRACT NO. 60Y38
ILLINOIS FED. AID PROJECT				

SCALE: N.T.S. SHEET NO. 8 OF 34 SHEETS STA. TO STA.

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	FIBER OPTIC SPLICE CLOSURE FOR KE13		
DISTRIBUTION CABLE DESIGNATION				DESTINATION	EXISTING IDOT LIGHTING CONTROLLER "E"		
DCF-KE-04	DCF-KE-04	DCF-KE-04	DCF-KE-04	DCF-KE-04	DCF-KE-04	DCF-KE-04	DCF-KE-04
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue 1	1	SPLICE THRU	SLATE	Blue 1	49	UNCUT, PASS THRU
	Orange 2	2	SPLICE THRU		Orange 2	50	UNCUT, PASS THRU
	Green 3	3	SPLICE THRU		Green 3	51	UNCUT, PASS THRU
	Brown 4	4	SPLICE THRU		Brown 4	52	UNCUT, PASS THRU
	Slate 5	5	SPLICE THRU		Slate 5	53	UNCUT, PASS THRU
	White 6	6	SPLICE THRU		White 6	54	UNCUT, PASS THRU
	Red 7	7	SPLICE THRU		Red 7	55	UNCUT, PASS THRU
	Black 8	8	SPLICE THRU		Black 8	56	UNCUT, PASS THRU
	Yellow 9	9	SPLICE THRU		Yellow 9	57	UNCUT, PASS THRU
	Violet 10	10	SPLICE THRU		Violet 10	58	UNCUT, PASS THRU
	Rose 11	11	LCF-KE-04h, BLU/BLU		Rose 11	59	UNCUT, PASS THRU
	Aqua 12	12	LCF-KE-04h, BLU/ORA		Aqua 12	60	UNCUT, PASS THRU
ORANGE	Blue 1	13	UNCUT, PASS THRU	WHITE	Blue 1	61	UNCUT, PASS THRU
	Orange 2	14	UNCUT, PASS THRU		Orange 2	62	UNCUT, PASS THRU
	Green 3	15	UNCUT, PASS THRU		Green 3	63	UNCUT, PASS THRU
	Brown 4	16	UNCUT, PASS THRU		Brown 4	64	UNCUT, PASS THRU
	Slate 5	17	UNCUT, PASS THRU		Slate 5	65	UNCUT, PASS THRU
	White 6	18	UNCUT, PASS THRU		White 6	66	UNCUT, PASS THRU
	Red 7	19	UNCUT, PASS THRU		Red 7	67	UNCUT, PASS THRU
	Black 8	20	UNCUT, PASS THRU		Black 8	68	UNCUT, PASS THRU
	Yellow 9	21	UNCUT, PASS THRU		Yellow 9	69	UNCUT, PASS THRU
	Violet 10	22	UNCUT, PASS THRU		Violet 10	70	UNCUT, PASS THRU
	Rose 11	23	UNCUT, PASS THRU		Rose 11	71	UNCUT, PASS THRU
	Aqua 12	24	UNCUT, PASS THRU		Aqua 12	72	UNCUT, PASS THRU
GREEN	Blue 1	25	UNCUT, PASS THRU	RED	Blue 1	73	UNCUT, PASS THRU
	Orange 2	26	UNCUT, PASS THRU		Orange 2	74	UNCUT, PASS THRU
	Green 3	27	UNCUT, PASS THRU		Green 3	75	UNCUT, PASS THRU
	Brown 4	28	UNCUT, PASS THRU		Brown 4	76	UNCUT, PASS THRU
	Slate 5	29	UNCUT, PASS THRU		Slate 5	77	UNCUT, PASS THRU
	White 6	30	UNCUT, PASS THRU		White 6	78	UNCUT, PASS THRU
	Red 7	31	UNCUT, PASS THRU		Red 7	79	UNCUT, PASS THRU
	Black 8	32	UNCUT, PASS THRU		Black 8	80	UNCUT, PASS THRU
	Yellow 9	33	UNCUT, PASS THRU		Yellow 9	81	UNCUT, PASS THRU
	Violet 10	34	UNCUT, PASS THRU		Violet 10	82	UNCUT, PASS THRU
	Rose 11	35	UNCUT, PASS THRU		Rose 11	83	UNCUT, PASS THRU
	Aqua 12	36	UNCUT, PASS THRU		Aqua 12	84	UNCUT, PASS THRU
BROWN	Blue 1	37	UNCUT, PASS THRU	BLACK	Blue 1	85	UNCUT, PASS THRU
	Orange 2	38	UNCUT, PASS THRU		Orange 2	86	UNCUT, PASS THRU
	Green 3	39	UNCUT, PASS THRU		Green 3	87	UNCUT, PASS THRU
	Brown 4	40	UNCUT, PASS THRU		Brown 4	88	UNCUT, PASS THRU
	Slate 5	41	UNCUT, PASS THRU		Slate 5	89	UNCUT, PASS THRU
	White 6	42	UNCUT, PASS THRU		White 6	90	UNCUT, PASS THRU
	Red 7	43	UNCUT, PASS THRU		Red 7	91	UNCUT, PASS THRU
	Black 8	44	UNCUT, PASS THRU		Black 8	92	UNCUT, PASS THRU
	Yellow 9	45	UNCUT, PASS THRU		Yellow 9	93	UNCUT, PASS THRU
	Violet 10	46	UNCUT, PASS THRU		Violet 10	94	UNCUT, PASS THRU
	Rose 11	47	UNCUT, PASS THRU		Rose 11	95	UNCUT, PASS THRU
	Aqua 12	48	UNCUT, PASS THRU		Aqua 12	96	UNCUT, PASS THRU

DCF-KE-04 FROM THE WEST

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	FIBER OPTIC SPLICE CLOSURE FOR E120		
DISTRIBUTION CABLE DESIGNATION				DESTINATION	EXISTING IDOT LIGHTING CONTROLLER "E"		
DCF-KE-04	DCF-KE-04	DCF-KE-04	DCF-KE-04	DCF-KE-04	DCF-KE-04	DCF-KE-04	DCF-KE-04
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue 1	1	SPLICE THRU	SLATE	Blue 1	49	UNCUT, PASS THRU
	Orange 2	2	SPLICE THRU		Orange 2	50	UNCUT, PASS THRU
	Green 3	3	SPLICE THRU		Green 3	51	UNCUT, PASS THRU
	Brown 4	4	SPLICE THRU		Brown 4	52	UNCUT, PASS THRU
	Slate 5	5	SPLICE THRU		Slate 5	53	UNCUT, PASS THRU
	White 6	6	SPLICE THRU		White 6	54	UNCUT, PASS THRU
	Red 7	7	SPLICE THRU		Red 7	55	UNCUT, PASS THRU
	Black 8	8	SPLICE THRU		Black 8	56	UNCUT, PASS THRU
	Yellow 9	9	SPLICE THRU		Yellow 9	57	UNCUT, PASS THRU
	Violet 10	10	SPLICE THRU		Violet 10	58	UNCUT, PASS THRU
	Rose 11	11	LCF-KE-04h, BLU/GRE		Rose 11	59	UNCUT, PASS THRU
	Aqua 12	12	LCF-KE-04h, BLU/BRO		Aqua 12	60	UNCUT, PASS THRU
ORANGE	Blue 1	13	UNCUT, PASS THRU	WHITE	Blue 1	61	UNCUT, PASS THRU
	Orange 2	14	UNCUT, PASS THRU		Orange 2	62	UNCUT, PASS THRU
	Green 3	15	UNCUT, PASS THRU		Green 3	63	UNCUT, PASS THRU
	Brown 4	16	UNCUT, PASS THRU		Brown 4	64	UNCUT, PASS THRU
	Slate 5	17	UNCUT, PASS THRU		Slate 5	65	UNCUT, PASS THRU
	White 6	18	UNCUT, PASS THRU		White 6	66	UNCUT, PASS THRU
	Red 7	19	UNCUT, PASS THRU		Red 7	67	UNCUT, PASS THRU
	Black 8	20	UNCUT, PASS THRU		Black 8	68	UNCUT, PASS THRU
	Yellow 9	21	UNCUT, PASS THRU		Yellow 9	69	UNCUT, PASS THRU
	Violet 10	22	UNCUT, PASS THRU		Violet 10	70	UNCUT, PASS THRU
	Rose 11	23	UNCUT, PASS THRU		Rose 11	71	UNCUT, PASS THRU
	Aqua 12	24	UNCUT, PASS THRU		Aqua 12	72	UNCUT, PASS THRU
GREEN	Blue 1	25	UNCUT, PASS THRU	RED	Blue 1	73	UNCUT, PASS THRU
	Orange 2	26	UNCUT, PASS THRU		Orange 2	74	UNCUT, PASS THRU
	Green 3	27	UNCUT, PASS THRU		Green 3	75	UNCUT, PASS THRU
	Brown 4	28	UNCUT, PASS THRU		Brown 4	76	UNCUT, PASS THRU
	Slate 5	29	UNCUT, PASS THRU		Slate 5	77	UNCUT, PASS THRU
	White 6	30	UNCUT, PASS THRU		White 6	78	UNCUT, PASS THRU
	Red 7	31	UNCUT, PASS THRU		Red 7	79	UNCUT, PASS THRU
	Black 8	32	UNCUT, PASS THRU		Black 8	80	UNCUT, PASS THRU
	Yellow 9	33	UNCUT, PASS THRU		Yellow 9	81	UNCUT, PASS THRU
	Violet 10	34	UNCUT, PASS THRU		Violet 10	82	UNCUT, PASS THRU
	Rose 11	35	UNCUT, PASS THRU		Rose 11	83	UNCUT, PASS THRU
	Aqua 12	36	UNCUT, PASS THRU		Aqua 12	84	UNCUT, PASS THRU
BROWN	Blue 1	37	UNCUT, PASS THRU	BLACK	Blue 1	85	UNCUT, PASS THRU
	Orange 2	38	UNCUT, PASS THRU		Orange 2	86	UNCUT, PASS THRU
	Green 3	39	UNCUT, PASS THRU		Green 3	87	UNCUT, PASS THRU
	Brown 4	40	UNCUT, PASS THRU		Brown 4	88	UNCUT, PASS THRU
	Slate 5	41	UNCUT, PASS THRU		Slate 5	89	UNCUT, PASS THRU
	White 6	42	UNCUT, PASS THRU		White 6	90	UNCUT, PASS THRU
	Red 7	43	UNCUT, PASS THRU		Red 7	91	UNCUT, PASS THRU
	Black 8	44	UNCUT, PASS THRU		Black 8	92	UNCUT, PASS THRU
	Yellow 9	45	UNCUT, PASS THRU		Yellow 9	93	UNCUT, PASS THRU
	Violet 10	46	UNCUT, PASS THRU		Violet 10	94	UNCUT, PASS THRU
	Rose 11	47	UNCUT, PASS THRU		Rose 11	95	UNCUT, PASS THRU
	Aqua 12	48	UNCUT, PASS THRU		Aqua 12	96	UNCUT, PASS THRU

DCF-KE-04 FROM THE EAST



USER NAME = jblakley	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED - YJ	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRIBUTION CABLE FIBER ASSIGNMENTS
FIBER OPTIC SPLICE CLOSURE FOR CMV-KE-04n
(LIGHTING CONTROLLER "E")

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	319
			CONTRACT NO. 60Y38	
ILLINOIS FED. AID PROJECT				

ITS-30

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	FIBER OPTIC SPLICE CLOSURE FOR KE13B			
DISTRIBUTION CABLE DESIGNATION				DESTINATION	FIBER OPTIC SPLICE CLOSURE FOR E120			
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	
BLUE	Blue	1	SPLICE THRU	SLATE	Blue	1	UNCUT, PASS THRU	
	Orange	2	SPLICE THRU		Orange	2	50	UNCUT, PASS THRU
	Green	3	LCF-KE-04f, BLU/BLU		Green	3	51	UNCUT, PASS THRU
	Brown	4	LCF-KE-04f, BLU/ORA		Brown	4	52	UNCUT, PASS THRU
	Slate	5	SPLICE THRU		Slate	5	53	UNCUT, PASS THRU
	White	6	SPLICE THRU		White	6	54	UNCUT, PASS THRU
	Red	7	SPLICE THRU		Red	7	55	UNCUT, PASS THRU
	Black	8	SPLICE THRU		Black	8	56	UNCUT, PASS THRU
	Yellow	9	SPLICE THRU		Yellow	9	57	UNCUT, PASS THRU
	Violet	10	SPLICE THRU		Violet	10	58	UNCUT, PASS THRU
	Rose	11	SPLICE THRU		Rose	11	59	UNCUT, PASS THRU
	Aqua	12	SPLICE THRU		Aqua	12	60	UNCUT, PASS THRU
ORANGE	Blue	1	UNCUT, PASS THRU	WHITE	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	62	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	63	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	64	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	65	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	66	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	67	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	68	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	69	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	70	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	71	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	72	UNCUT, PASS THRU
GREEN	Blue	1	UNCUT, PASS THRU	RED	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	74	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	75	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	76	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	77	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	78	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	79	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	80	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	81	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	82	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	83	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	84	UNCUT, PASS THRU
BROWN	Blue	1	UNCUT, PASS THRU	BLACK	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	86	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	87	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	88	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	89	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	90	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	91	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	92	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	93	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	94	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	95	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	96	UNCUT, PASS THRU

DCF-KE-04 FROM THE WEST

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	FIBER OPTIC SPLICE CLOSURE FOR KE12			
DISTRIBUTION CABLE DESIGNATION				DESTINATION	FIBER OPTIC SPLICE CLOSURE FOR E120			
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	
BLUE	Blue	1	SPLICE THRU	SLATE	Blue	1	UNCUT, PASS THRU	
	Orange	2	SPLICE THRU		Orange	2	50	UNCUT, PASS THRU
	Green	3	LCF-KE-04f, BLU/GRE		Green	3	51	UNCUT, PASS THRU
	Brown	4	LCF-KE-04f, BLU/BRO		Brown	4	52	UNCUT, PASS THRU
	Slate	5	SPLICE THRU		Slate	5	53	UNCUT, PASS THRU
	White	6	SPLICE THRU		White	6	54	UNCUT, PASS THRU
	Red	7	SPLICE THRU		Red	7	55	UNCUT, PASS THRU
	Black	8	SPLICE THRU		Black	8	56	UNCUT, PASS THRU
	Yellow	9	SPLICE THRU		Yellow	9	57	UNCUT, PASS THRU
	Violet	10	SPLICE THRU		Violet	10	58	UNCUT, PASS THRU
	Rose	11	SPLICE THRU		Rose	11	59	UNCUT, PASS THRU
	Aqua	12	SPLICE THRU		Aqua	12	60	UNCUT, PASS THRU
ORANGE	Blue	1	UNCUT, PASS THRU	WHITE	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	62	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	63	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	64	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	65	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	66	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	67	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	68	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	69	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	70	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	71	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	72	UNCUT, PASS THRU
GREEN	Blue	1	UNCUT, PASS THRU	RED	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	74	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	75	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	76	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	77	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	78	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	79	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	80	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	81	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	82	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	83	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	84	UNCUT, PASS THRU
BROWN	Blue	1	UNCUT, PASS THRU	BLACK	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	86	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	87	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	88	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	89	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	90	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	91	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	92	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	93	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	94	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	95	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	96	UNCUT, PASS THRU

DCF-KE-04 FROM THE EAST



USER NAME = jblakley	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED - YJ	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRIBUTION CABLE FIBER ASSIGNMENTS
FIBER OPTIC SPLICE CLOSURE FOR CMV-KE-04m
(CUMBERLAND SURV.)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	320
			CONTRACT NO. 60Y38	
ILLINOIS FED. AID PROJECT				

ITS-31

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	FIBER OPTIC SPLICE CLOSURE FOR E120		
DISTRIBUTION CABLE DESIGNATION				DESTINATION	FIBER OPTIC SPLICE CLOSURE FOR KE12		
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue	1	LCF-KE-04e, BLU/BLU	SLATE	Blue	49	UNCUT, PASS THRU
	Orange	2	LCF-KE-04e, BLU/ORA		Orange	50	UNCUT, PASS THRU
	Green	3	SPLICE THRU		Green	51	UNCUT, PASS THRU
	Brown	4	SPLICE THRU		Brown	52	UNCUT, PASS THRU
	Slate	5	SPLICE THRU		Slate	53	UNCUT, PASS THRU
	White	6	SPLICE THRU		White	54	UNCUT, PASS THRU
	Red	7	SPLICE THRU		Red	55	UNCUT, PASS THRU
	Black	8	SPLICE THRU		Black	56	UNCUT, PASS THRU
	Yellow	9	SPLICE THRU		Yellow	57	UNCUT, PASS THRU
	Violet	10	SPLICE THRU		Violet	58	UNCUT, PASS THRU
	Rose	11	SPLICE THRU		Rose	59	UNCUT, PASS THRU
	Aqua	12	SPLICE THRU		Aqua	60	UNCUT, PASS THRU
ORANGE	Blue	13	UNCUT, PASS THRU	WHITE	Blue	61	UNCUT, PASS THRU
	Orange	14	UNCUT, PASS THRU		Orange	62	UNCUT, PASS THRU
	Green	15	UNCUT, PASS THRU		Green	63	UNCUT, PASS THRU
	Brown	16	UNCUT, PASS THRU		Brown	64	UNCUT, PASS THRU
	Slate	17	UNCUT, PASS THRU		Slate	65	UNCUT, PASS THRU
	White	18	UNCUT, PASS THRU		White	66	UNCUT, PASS THRU
	Red	19	UNCUT, PASS THRU		Red	67	UNCUT, PASS THRU
	Black	20	UNCUT, PASS THRU		Black	68	UNCUT, PASS THRU
	Yellow	21	UNCUT, PASS THRU		Yellow	69	UNCUT, PASS THRU
	Violet	22	UNCUT, PASS THRU		Violet	70	UNCUT, PASS THRU
	Rose	23	UNCUT, PASS THRU		Rose	71	UNCUT, PASS THRU
	Aqua	24	UNCUT, PASS THRU		Aqua	72	UNCUT, PASS THRU
GREEN	Blue	25	UNCUT, PASS THRU	RED	Blue	73	UNCUT, PASS THRU
	Orange	26	UNCUT, PASS THRU		Orange	74	UNCUT, PASS THRU
	Green	27	UNCUT, PASS THRU		Green	75	UNCUT, PASS THRU
	Brown	28	UNCUT, PASS THRU		Brown	76	UNCUT, PASS THRU
	Slate	29	UNCUT, PASS THRU		Slate	77	UNCUT, PASS THRU
	White	30	UNCUT, PASS THRU		White	78	UNCUT, PASS THRU
	Red	31	UNCUT, PASS THRU		Red	79	UNCUT, PASS THRU
	Black	32	UNCUT, PASS THRU		Black	80	UNCUT, PASS THRU
	Yellow	33	UNCUT, PASS THRU		Yellow	81	UNCUT, PASS THRU
	Violet	34	UNCUT, PASS THRU		Violet	82	UNCUT, PASS THRU
	Rose	35	UNCUT, PASS THRU		Rose	83	UNCUT, PASS THRU
	Aqua	36	UNCUT, PASS THRU		Aqua	84	UNCUT, PASS THRU
BROWN	Blue	37	UNCUT, PASS THRU	BLACK	Blue	85	UNCUT, PASS THRU
	Orange	38	UNCUT, PASS THRU		Orange	86	UNCUT, PASS THRU
	Green	39	UNCUT, PASS THRU		Green	87	UNCUT, PASS THRU
	Brown	40	UNCUT, PASS THRU		Brown	88	UNCUT, PASS THRU
	Slate	41	UNCUT, PASS THRU		Slate	89	UNCUT, PASS THRU
	White	42	UNCUT, PASS THRU		White	90	UNCUT, PASS THRU
	Red	43	UNCUT, PASS THRU		Red	91	UNCUT, PASS THRU
	Black	44	UNCUT, PASS THRU		Black	92	UNCUT, PASS THRU
	Yellow	45	UNCUT, PASS THRU		Yellow	93	UNCUT, PASS THRU
	Violet	46	UNCUT, PASS THRU		Violet	94	UNCUT, PASS THRU
	Rose	47	UNCUT, PASS THRU		Rose	95	UNCUT, PASS THRU
	Aqua	48	UNCUT, PASS THRU		Aqua	96	UNCUT, PASS THRU

DCF-KE-04 FROM THE WEST

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	FIBER OPTIC SPLICE CLOSURE FOR F118		
DISTRIBUTION CABLE DESIGNATION				DESTINATION	FIBER OPTIC SPLICE CLOSURE FOR KE12		
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue	1	LCF-KE-04e, BLU/GRE	SLATE	Blue	49	UNCUT, PASS THRU
	Orange	2	LCF-KE-04e, BLU/BRO		Orange	50	UNCUT, PASS THRU
	Green	3	SPLICE THRU		Green	51	UNCUT, PASS THRU
	Brown	4	SPLICE THRU		Brown	52	UNCUT, PASS THRU
	Slate	5	SPLICE THRU		Slate	53	UNCUT, PASS THRU
	White	6	SPLICE THRU		White	54	UNCUT, PASS THRU
	Red	7	SPLICE THRU		Red	55	UNCUT, PASS THRU
	Black	8	SPLICE THRU		Black	56	UNCUT, PASS THRU
	Yellow	9	SPLICE THRU		Yellow	57	UNCUT, PASS THRU
	Violet	10	SPLICE THRU		Violet	58	UNCUT, PASS THRU
	Rose	11	SPLICE THRU		Rose	59	UNCUT, PASS THRU
	Aqua	12	SPLICE THRU		Aqua	60	UNCUT, PASS THRU
ORANGE	Blue	13	UNCUT, PASS THRU	WHITE	Blue	61	UNCUT, PASS THRU
	Orange	14	UNCUT, PASS THRU		Orange	62	UNCUT, PASS THRU
	Green	15	UNCUT, PASS THRU		Green	63	UNCUT, PASS THRU
	Brown	16	UNCUT, PASS THRU		Brown	64	UNCUT, PASS THRU
	Slate	17	UNCUT, PASS THRU		Slate	65	UNCUT, PASS THRU
	White	18	UNCUT, PASS THRU		White	66	UNCUT, PASS THRU
	Red	19	UNCUT, PASS THRU		Red	67	UNCUT, PASS THRU
	Black	20	UNCUT, PASS THRU		Black	68	UNCUT, PASS THRU
	Yellow	21	UNCUT, PASS THRU		Yellow	69	UNCUT, PASS THRU
	Violet	22	UNCUT, PASS THRU		Violet	70	UNCUT, PASS THRU
	Rose	23	UNCUT, PASS THRU		Rose	71	UNCUT, PASS THRU
	Aqua	24	UNCUT, PASS THRU		Aqua	72	UNCUT, PASS THRU
GREEN	Blue	25	UNCUT, PASS THRU	RED	Blue	73	UNCUT, PASS THRU
	Orange	26	UNCUT, PASS THRU		Orange	74	UNCUT, PASS THRU
	Green	27	UNCUT, PASS THRU		Green	75	UNCUT, PASS THRU
	Brown	28	UNCUT, PASS THRU		Brown	76	UNCUT, PASS THRU
	Slate	29	UNCUT, PASS THRU		Slate	77	UNCUT, PASS THRU
	White	30	UNCUT, PASS THRU		White	78	UNCUT, PASS THRU
	Red	31	UNCUT, PASS THRU		Red	79	UNCUT, PASS THRU
	Black	32	UNCUT, PASS THRU		Black	80	UNCUT, PASS THRU
	Yellow	33	UNCUT, PASS THRU		Yellow	81	UNCUT, PASS THRU
	Violet	34	UNCUT, PASS THRU		Violet	82	UNCUT, PASS THRU
	Rose	35	UNCUT, PASS THRU		Rose	83	UNCUT, PASS THRU
	Aqua	36	UNCUT, PASS THRU		Aqua	84	UNCUT, PASS THRU
BROWN	Blue	37	UNCUT, PASS THRU	BLACK	Blue	85	UNCUT, PASS THRU
	Orange	38	UNCUT, PASS THRU		Orange	86	UNCUT, PASS THRU
	Green	39	UNCUT, PASS THRU		Green	87	UNCUT, PASS THRU
	Brown	40	UNCUT, PASS THRU		Brown	88	UNCUT, PASS THRU
	Slate	41	UNCUT, PASS THRU		Slate	89	UNCUT, PASS THRU
	White	42	UNCUT, PASS THRU		White	90	UNCUT, PASS THRU
	Red	43	UNCUT, PASS THRU		Red	91	UNCUT, PASS THRU
	Black	44	UNCUT, PASS THRU		Black	92	UNCUT, PASS THRU
	Yellow	45	UNCUT, PASS THRU		Yellow	93	UNCUT, PASS THRU
	Violet	46	UNCUT, PASS THRU		Violet	94	UNCUT, PASS THRU
	Rose	47	UNCUT, PASS THRU		Rose	95	UNCUT, PASS THRU
	Aqua	48	UNCUT, PASS THRU		Aqua	96	UNCUT, PASS THRU

DCF-KE-04 FROM THE EAST



USER NAME = jblakley	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED - YJ	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRIBUTION CABLE FIBER ASSIGNMENTS FIBER OPTIC SPLICE CLOSURE FOR CMV-KE-04i (CANFIELD CCTV)			
SCALE: N.T.S.	SHEET NO. 11 OF 34 SHEETS	STA. TO STA.	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	321
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				

ITS-32

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	FIBER OPTIC SPLICE CLOSURE FOR KE12			
DISTRIBUTION CABLE DESIGNATION				DESTINATION	FIBER OPTIC SPLICE CLOSURE FOR F118			
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	
BLUE	Blue	1	SPLICE THRU	SLATE	Blue	1	UNCUT, PASS THRU	
	Orange	2	SPLICE THRU		Orange	2	50	UNCUT, PASS THRU
	Green	3	LCF-KE-04d, BLU/BLU		Green	3	51	UNCUT, PASS THRU
	Brown	4	LCF-KE-04d, BLU/ORA		Brown	4	52	UNCUT, PASS THRU
	Slate	5	SPLICE THRU		Slate	5	53	UNCUT, PASS THRU
	White	6	SPLICE THRU		White	6	54	UNCUT, PASS THRU
	Red	7	SPLICE THRU		Red	7	55	UNCUT, PASS THRU
	Black	8	SPLICE THRU		Black	8	56	UNCUT, PASS THRU
	Yellow	9	SPLICE THRU		Yellow	9	57	UNCUT, PASS THRU
	Violet	10	SPLICE THRU		Violet	10	58	UNCUT, PASS THRU
	Rose	11	SPLICE THRU		Rose	11	59	UNCUT, PASS THRU
	Aqua	12	SPLICE THRU		Aqua	12	60	UNCUT, PASS THRU
ORANGE	Blue	1	UNCUT, PASS THRU	WHITE	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	62	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	63	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	64	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	65	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	66	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	67	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	68	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	69	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	70	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	71	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	72	UNCUT, PASS THRU
GREEN	Blue	1	UNCUT, PASS THRU	RED	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	74	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	75	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	76	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	77	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	78	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	79	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	80	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	81	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	82	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	83	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	84	UNCUT, PASS THRU
BROWN	Blue	1	UNCUT, PASS THRU	BLACK	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	86	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	87	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	88	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	89	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	90	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	91	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	92	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	93	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	94	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	95	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	96	UNCUT, PASS THRU

DCF-KE-04 FROM THE WEST

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	PROPOSED LIGHTING CONTROLLER "F"			
DISTRIBUTION CABLE DESIGNATION				DESTINATION	FIBER OPTIC SPLICE CLOSURE FOR F118			
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	
BLUE	Blue	1	SPLICE THRU	SLATE	Blue	1	UNCUT, PASS THRU	
	Orange	2	SPLICE THRU		Orange	2	50	UNCUT, PASS THRU
	Green	3	LCF-KE-04d, BLU/GRE		Green	3	51	UNCUT, PASS THRU
	Brown	4	LCF-KE-04d, BLU/BRO		Brown	4	52	UNCUT, PASS THRU
	Slate	5	SPLICE THRU		Slate	5	53	UNCUT, PASS THRU
	White	6	SPLICE THRU		White	6	54	UNCUT, PASS THRU
	Red	7	SPLICE THRU		Red	7	55	UNCUT, PASS THRU
	Black	8	SPLICE THRU		Black	8	56	UNCUT, PASS THRU
	Yellow	9	SPLICE THRU		Yellow	9	57	UNCUT, PASS THRU
	Violet	10	SPLICE THRU		Violet	10	58	UNCUT, PASS THRU
	Rose	11	SPLICE THRU		Rose	11	59	UNCUT, PASS THRU
	Aqua	12	SPLICE THRU		Aqua	12	60	UNCUT, PASS THRU
ORANGE	Blue	1	UNCUT, PASS THRU	WHITE	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	62	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	63	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	64	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	65	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	66	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	67	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	68	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	69	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	70	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	71	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	72	UNCUT, PASS THRU
GREEN	Blue	1	UNCUT, PASS THRU	RED	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	74	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	75	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	76	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	77	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	78	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	79	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	80	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	81	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	82	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	83	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	84	UNCUT, PASS THRU
BROWN	Blue	1	UNCUT, PASS THRU	BLACK	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	86	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	87	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	88	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	89	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	90	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	91	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	92	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	93	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	94	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	95	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	96	UNCUT, PASS THRU

DCF-KE-04 FROM THE EAST



USER NAME = jblakley	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED - YJ	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRIBUTION CABLE FIBER ASSIGNMENTS
FIBER OPTIC SPLICE CLOSURE FOR CMV-KE-04h
(CANFIELD SURV.)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	322
			CONTRACT NO. 60Y38	
ILLINOIS FED. AID PROJECT				

SCALE: N.T.S. SHEET NO. 12 OF 34 SHEETS STA. TO STA.

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	FIBER OPTIC SPLICE CLOSURE FOR F118			
DISTRIBUTION CABLE DESIGNATION				DCF-KE-04	PROPOSED LIGHTING CONTROLLER "F"			
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	DESTINATION	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue	1	SPLICE THRU	SLATE	Blue	1	49	UNCUT, PASS THRU
	Orange	2	SPLICE THRU		Orange	2	50	UNCUT, PASS THRU
	Green	3	SPLICE THRU		Green	3	51	UNCUT, PASS THRU
	Brown	4	SPLICE THRU		Brown	4	52	UNCUT, PASS THRU
	Slate	5	SPLICE THRU		Slate	5	53	UNCUT, PASS THRU
	White	6	SPLICE THRU		White	6	54	UNCUT, PASS THRU
	Red	7	SPLICE THRU		Red	7	55	UNCUT, PASS THRU
	Black	8	SPLICE THRU		Black	8	56	UNCUT, PASS THRU
	Yellow	9	SPLICE THRU		Yellow	9	57	UNCUT, PASS THRU
	Violet	10	SPLICE THRU		Violet	10	58	UNCUT, PASS THRU
	Rose	11	LCF-KE-04c, BLU/BLU		Rose	11	59	UNCUT, PASS THRU
	Aqua	12	LCF-KE-04c, BLU/ORA		Aqua	12	60	UNCUT, PASS THRU
ORANGE	Blue	1	UNCUT, PASS THRU	WHITE	Blue	1	61	UNCUT, PASS THRU
	Orange	2	UNCUT, PASS THRU		Orange	2	62	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	63	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	64	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	65	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	66	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	67	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	68	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	69	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	70	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	71	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	72	UNCUT, PASS THRU
GREEN	Blue	1	UNCUT, PASS THRU	RED	Blue	1	73	UNCUT, PASS THRU
	Orange	2	UNCUT, PASS THRU		Orange	2	74	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	75	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	76	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	77	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	78	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	79	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	80	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	81	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	82	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	83	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	84	UNCUT, PASS THRU
BROWN	Blue	1	UNCUT, PASS THRU	BLACK	Blue	1	85	UNCUT, PASS THRU
	Orange	2	UNCUT, PASS THRU		Orange	2	86	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	87	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	88	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	89	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	90	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	91	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	92	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	93	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	94	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	95	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	96	UNCUT, PASS THRU

DCF-KE-04 FROM THE WEST

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	FIBER OPTIC SPLICE CLOSURE FOR F116			
DISTRIBUTION CABLE DESIGNATION				DCF-KE-04	PROPOSED LIGHTING CONTROLLER "F"			
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	DESTINATION	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue	1	SPLICE THRU	SLATE	Blue	1	49	UNCUT, PASS THRU
	Orange	2	SPLICE THRU		Orange	2	50	UNCUT, PASS THRU
	Green	3	SPLICE THRU		Green	3	51	UNCUT, PASS THRU
	Brown	4	SPLICE THRU		Brown	4	52	UNCUT, PASS THRU
	Slate	5	SPLICE THRU		Slate	5	53	UNCUT, PASS THRU
	White	6	SPLICE THRU		White	6	54	UNCUT, PASS THRU
	Red	7	SPLICE THRU		Red	7	55	UNCUT, PASS THRU
	Black	8	SPLICE THRU		Black	8	56	UNCUT, PASS THRU
	Yellow	9	SPLICE THRU		Yellow	9	57	UNCUT, PASS THRU
	Violet	10	SPLICE THRU		Violet	10	58	UNCUT, PASS THRU
	Rose	11	LCF-KE-04c, BLU/GRE		Rose	11	59	UNCUT, PASS THRU
	Aqua	12	LCF-KE-04c, BLU/BRO		Aqua	12	60	UNCUT, PASS THRU
ORANGE	Blue	1	UNCUT, PASS THRU	WHITE	Blue	1	61	UNCUT, PASS THRU
	Orange	2	UNCUT, PASS THRU		Orange	2	62	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	63	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	64	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	65	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	66	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	67	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	68	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	69	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	70	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	71	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	72	UNCUT, PASS THRU
GREEN	Blue	1	UNCUT, PASS THRU	RED	Blue	1	73	UNCUT, PASS THRU
	Orange	2	UNCUT, PASS THRU		Orange	2	74	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	75	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	76	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	77	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	78	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	79	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	80	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	81	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	82	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	83	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	84	UNCUT, PASS THRU
BROWN	Blue	1	UNCUT, PASS THRU	BLACK	Blue	1	85	UNCUT, PASS THRU
	Orange	2	UNCUT, PASS THRU		Orange	2	86	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	87	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	88	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	89	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	90	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	91	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	92	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	93	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	94	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	95	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	96	UNCUT, PASS THRU

DCF-KE-04 FROM THE EAST



USER NAME = jblakley	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1:80' / in.	CHECKED - YJ	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRIBUTION CABLE FIBER ASSIGNMENTS FIBER OPTIC SPLICE CLOSURE FOR CMV-KE-04e (LIGHTING CONTROLLER "F")			
SCALE: N.T.S.	SHEET NO. 13 OF 34 SHEETS	STA. TO STA.	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	323
				CONTRACT NO. 60Y38
ILLINOIS FED. AID PROJECT				

ITS-34

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	PROPOSED LIGHTING CONTROLLER "F"			
DISTRIBUTION CABLE DESIGNATION				DCF-KE-04	DESTINATION	FIBER OPTIC SPLICE CLOSURE FOR F116		
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	
BLUE	Blue	1	SPLICE THRU	SLATE	Blue	1	49	UNCUT, PASS THRU
	Orange	2	SPLICE THRU		Orange	2	50	UNCUT, PASS THRU
	Green	3	LCF-KE-04b, BLU/BLU		Green	3	51	UNCUT, PASS THRU
	Brown	4	LCF-KE-04b, BLU/ORA		Brown	4	52	UNCUT, PASS THRU
	Slate	5	SPLICE THRU		Slate	5	53	UNCUT, PASS THRU
	White	6	SPLICE THRU		White	6	54	UNCUT, PASS THRU
	Red	7	SPLICE THRU		Red	7	55	UNCUT, PASS THRU
	Black	8	SPLICE THRU		Black	8	56	UNCUT, PASS THRU
	Yellow	9	SPLICE THRU		Yellow	9	57	UNCUT, PASS THRU
	Violet	10	SPLICE THRU		Violet	10	58	UNCUT, PASS THRU
	Rose	11	SPLICE THRU		Rose	11	59	UNCUT, PASS THRU
	Aqua	12	SPLICE THRU		Aqua	12	60	UNCUT, PASS THRU
ORANGE	Blue	1	UNCUT, PASS THRU	WHITE	Blue	1	61	UNCUT, PASS THRU
	Orange	2	UNCUT, PASS THRU		Orange	2	62	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	63	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	64	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	65	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	66	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	67	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	68	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	69	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	70	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	71	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	72	UNCUT, PASS THRU
GREEN	Blue	1	UNCUT, PASS THRU	RED	Blue	1	73	UNCUT, PASS THRU
	Orange	2	UNCUT, PASS THRU		Orange	2	74	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	75	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	76	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	77	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	78	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	79	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	80	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	81	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	82	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	83	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	84	UNCUT, PASS THRU
BROWN	Blue	1	UNCUT, PASS THRU	BLACK	Blue	1	85	UNCUT, PASS THRU
	Orange	2	UNCUT, PASS THRU		Orange	2	86	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	87	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	88	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	89	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	90	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	91	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	92	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	93	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	94	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	95	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	96	UNCUT, PASS THRU

DCF-KE-04 FROM THE WEST

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	FIBER OPTIC SPLICE CLOSURE FOR KE11			
DISTRIBUTION CABLE DESIGNATION				DCF-KE-04	DESTINATION	FIBER OPTIC SPLICE CLOSURE FOR F116		
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	
BLUE	Blue	1	SPLICE THRU	SLATE	Blue	1	49	UNCUT, PASS THRU
	Orange	2	SPLICE THRU		Orange	2	50	UNCUT, PASS THRU
	Green	3	LCF-KE-04b, BLU/GRE		Green	3	51	UNCUT, PASS THRU
	Brown	4	LCF-KE-04b, BLU/BRO		Brown	4	52	UNCUT, PASS THRU
	Slate	5	SPLICE THRU		Slate	5	53	UNCUT, PASS THRU
	White	6	SPLICE THRU		White	6	54	UNCUT, PASS THRU
	Red	7	SPLICE THRU		Red	7	55	UNCUT, PASS THRU
	Black	8	SPLICE THRU		Black	8	56	UNCUT, PASS THRU
	Yellow	9	SPLICE THRU		Yellow	9	57	UNCUT, PASS THRU
	Violet	10	SPLICE THRU		Violet	10	58	UNCUT, PASS THRU
	Rose	11	SPLICE THRU		Rose	11	59	UNCUT, PASS THRU
	Aqua	12	SPLICE THRU		Aqua	12	60	UNCUT, PASS THRU
ORANGE	Blue	1	UNCUT, PASS THRU	WHITE	Blue	1	61	UNCUT, PASS THRU
	Orange	2	UNCUT, PASS THRU		Orange	2	62	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	63	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	64	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	65	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	66	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	67	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	68	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	69	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	70	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	71	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	72	UNCUT, PASS THRU
GREEN	Blue	1	UNCUT, PASS THRU	RED	Blue	1	73	UNCUT, PASS THRU
	Orange	2	UNCUT, PASS THRU		Orange	2	74	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	75	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	76	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	77	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	78	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	79	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	80	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	81	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	82	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	83	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	84	UNCUT, PASS THRU
BROWN	Blue	1	UNCUT, PASS THRU	BLACK	Blue	1	85	UNCUT, PASS THRU
	Orange	2	UNCUT, PASS THRU		Orange	2	86	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	87	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	88	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	89	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	90	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	91	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	92	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	93	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	94	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	95	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	96	UNCUT, PASS THRU

DCF-KE-04 FROM THE EAST



USER NAME = jblakley	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED - YJ	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRIBUTION CABLE FIBER ASSIGNMENTS
FIBER OPTIC SPLICE CLOSURE FOR CMV-KE-04c
(HARLEM SURV.)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	324
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				

ITS-35

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	FIBER OPTIC SPLICE CLOSURE FOR F116		
DISTRIBUTION CABLE DESIGNATION				DESTINATION	FIBER OPTIC INTERCONNECT CABINET		
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue	1	LCF-KE-04a, BLU/BLU	SLATE	Blue	49	CAPPED AND COILED
	Orange	2	LCF-KE-04a, BLU/ORA		Orange	50	CAPPED AND COILED
	Green	3	SPLICED TO PIGTAIL		Green	51	CAPPED AND COILED
	Brown	4	SPLICED TO PIGTAIL		Brown	52	CAPPED AND COILED
	Slate	5	SPLICED TO PIGTAIL		Slate	53	CAPPED AND COILED
	White	6	SPLICED TO PIGTAIL		White	54	CAPPED AND COILED
	Red	7	SPLICED TO PIGTAIL		Red	55	CAPPED AND COILED
	Black	8	SPLICED TO PIGTAIL		Black	56	CAPPED AND COILED
	Yellow	9	SPLICED TO PIGTAIL		Yellow	57	CAPPED AND COILED
	Violet	10	SPLICED TO PIGTAIL		Violet	58	CAPPED AND COILED
	Rose	11	SPLICED TO PIGTAIL		Rose	59	CAPPED AND COILED
	Aqua	12	SPLICED TO PIGTAIL		Aqua	60	CAPPED AND COILED
ORANGE	Blue	13	CAPPED AND COILED	WHITE	Blue	61	CAPPED AND COILED
	Orange	14	CAPPED AND COILED		Orange	62	CAPPED AND COILED
	Green	15	CAPPED AND COILED		Green	63	CAPPED AND COILED
	Brown	16	CAPPED AND COILED		Brown	64	CAPPED AND COILED
	Slate	17	CAPPED AND COILED		Slate	65	CAPPED AND COILED
	White	18	CAPPED AND COILED		White	66	CAPPED AND COILED
	Red	19	CAPPED AND COILED		Red	67	CAPPED AND COILED
	Black	20	CAPPED AND COILED		Black	68	CAPPED AND COILED
	Yellow	21	CAPPED AND COILED		Yellow	69	CAPPED AND COILED
	Violet	22	CAPPED AND COILED		Violet	70	CAPPED AND COILED
	Rose	23	CAPPED AND COILED		Rose	71	CAPPED AND COILED
	Aqua	24	CAPPED AND COILED		Aqua	72	CAPPED AND COILED
GREEN	Blue	25	CAPPED AND COILED	RED	Blue	73	CAPPED AND COILED
	Orange	26	CAPPED AND COILED		Orange	74	CAPPED AND COILED
	Green	27	CAPPED AND COILED		Green	75	CAPPED AND COILED
	Brown	28	CAPPED AND COILED		Brown	76	CAPPED AND COILED
	Slate	29	CAPPED AND COILED		Slate	77	CAPPED AND COILED
	White	30	CAPPED AND COILED		White	78	CAPPED AND COILED
	Red	31	CAPPED AND COILED		Red	79	CAPPED AND COILED
	Black	32	CAPPED AND COILED		Black	80	CAPPED AND COILED
	Yellow	33	CAPPED AND COILED		Yellow	81	CAPPED AND COILED
	Violet	34	CAPPED AND COILED		Violet	82	CAPPED AND COILED
	Rose	35	CAPPED AND COILED		Rose	83	CAPPED AND COILED
	Aqua	36	CAPPED AND COILED		Aqua	84	CAPPED AND COILED
BROWN	Blue	37	CAPPED AND COILED	BLACK	Blue	85	CAPPED AND COILED
	Orange	38	CAPPED AND COILED		Orange	86	CAPPED AND COILED
	Green	39	CAPPED AND COILED		Green	87	CAPPED AND COILED
	Brown	40	CAPPED AND COILED		Brown	88	CAPPED AND COILED
	Slate	41	CAPPED AND COILED		Slate	89	CAPPED AND COILED
	White	42	CAPPED AND COILED		White	90	CAPPED AND COILED
	Red	43	CAPPED AND COILED		Red	91	CAPPED AND COILED
	Black	44	CAPPED AND COILED		Black	92	CAPPED AND COILED
	Yellow	45	CAPPED AND COILED		Yellow	93	CAPPED AND COILED
	Violet	46	CAPPED AND COILED		Violet	94	CAPPED AND COILED
	Rose	47	CAPPED AND COILED		Rose	95	CAPPED AND COILED
	Aqua	48	CAPPED AND COILED		Aqua	96	CAPPED AND COILED

DCF-KE-04 FROM THE WEST

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	FUTURE CABLE		
DISTRIBUTION CABLE DESIGNATION				DESTINATION	FIBER OPTIC INTERCONNECT CABINET		
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue	1		SLATE	Blue	49	
	Orange	2			Orange	50	
	Green	3			Green	51	
	Brown	4			Brown	52	
	Slate	5			Slate	53	
	White	6			White	54	
	Red	7			Red	55	
	Black	8			Black	56	
	Yellow	9			Yellow	57	
	Violet	10			Violet	58	
	Rose	11			Rose	59	
	Aqua	12			Aqua	60	
ORANGE	Blue	13		WHITE	Blue	61	
	Orange	14			Orange	62	
	Green	15			Green	63	
	Brown	16			Brown	64	
	Slate	17			Slate	65	
	White	18			White	66	
	Red	19			Red	67	
	Black	20			Black	68	
	Yellow	21			Yellow	69	
	Violet	22			Violet	70	
	Rose	23			Rose	71	
	Aqua	24			Aqua	72	
GREEN	Blue	25		RED	Blue	73	
	Orange	26			Orange	74	
	Green	27			Green	75	
	Brown	28			Brown	76	
	Slate	29			Slate	77	
	White	30			White	78	
	Red	31			Red	79	
	Black	32			Black	80	
	Yellow	33			Yellow	81	
	Violet	34			Violet	82	
	Rose	35			Rose	83	
	Aqua	36			Aqua	84	
BROWN	Blue	37		BLACK	Blue	85	
	Orange	38			Orange	86	
	Green	39			Green	87	
	Brown	40			Brown	88	
	Slate	41			Slate	89	
	White	42			White	90	
	Red	43			Red	91	
	Black	44			Black	92	
	Yellow	45			Yellow	93	
	Violet	46			Violet	94	
	Rose	47			Rose	95	
	Aqua	48			Aqua	96	

DCF-KE-04 FROM THE EAST



USER NAME = jblakley	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED - YJ	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRIBUTION CABLE FIBER ASSIGNMENTS
FIBER OPTIC INTERCONNECT CABINET FIC-KE-04a
(HARLEM)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	325
			CONTRACT NO. 60Y38	
			ILLINOIS FED. AID PROJECT	

ITS-36

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-KE-04g (FROM KE13B)		
FIBER NO.	FUNCTION	CONNECTION
1	ETHERNET SWITCH	DCF-KE-04, BLU/BLU 1 WEST
2	ETHERNET SWITCH	DCF-KE-04, BLU/ORA 1 WEST
3	ETHERNET SWITCH	DCF-KE-04, BLU/BLU 1 EAST
4	ETHERNET SWITCH	DCF-KE-04, BLU/ORA 2 EAST
5	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
6	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
7	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
8	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
9	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
10	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
11	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
12	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED

TO FIBER OPTIC SPLICE CLOSURE FOR CMV-KE-04n (CUMBERLAND CCTV)

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-KE-04e (FROM KE12)		
FIBER NO.	FUNCTION	CONNECTION
1	ETHERNET SWITCH	DCF-KE-04, BLU/BLU 1 WEST
2	ETHERNET SWITCH	DCF-KE-04, BLU/ORA 2 WEST
3	ETHERNET SWITCH	DCF-KE-04, BLU/BLU 1 EAST
4	ETHERNET SWITCH	DCF-KE-04, BLU/ORA 2 EAST
5	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
6	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
7	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
8	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
9	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
10	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
11	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
12	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED

TO FIBER OPTIC SPLICE CLOSURE FOR CMV-KE-04i (CANFIELD CCTV)

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-KE-04f (FROM E120)		
FIBER NO.	FUNCTION	CONNECTION
1	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-04, BLU/BLU 1
2	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-04, BLU/ORA 2
3	TONE EQUIP. FUTURE CONNECTION	DCF-KE-04, BLU/GRE 3
4	TONE EQUIP. FUTURE CONNECTION	DCF-KE-04, BLU/BRO 4
5	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
6	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
7	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
8	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
9	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
10	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
11	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
12	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED

TO FIBER OPTIC SPLICE CLOSURE FOR CMV-KE-04m (CUMBERLAND SURV.)

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-KE-04d (FROM F118)		
FIBER NO.	FUNCTION	CONNECTION
1	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-04, BLU/BLU 1
2	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-04, BLU/ORA 2
3	TONE EQUIP. FUTURE CONNECTION	DCF-KE-04, BLU/GRE 3
4	TONE EQUIP. FUTURE CONNECTION	DCF-KE-04, BLU/BRO 4
5	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
6	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
7	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
8	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
9	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
10	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
11	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
12	SPARE TO FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED

TO FIBER OPTIC SPLICE CLOSURE FOR CMV-KE-04h (CANFIELD SURV.)



USER NAME = jblakley	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED - YJ	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TWELVE FIBER LATERAL CABLE FIBER ASSIGNMENTS

SCALE: N.T.S. SHEET NO. 16 OF 34 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	326
			CONTRACT NO. 60Y38	
ILLINOIS FED. AID PROJECT				

ITS-37

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-KE-04b (FROM F116)		
FIBER NO.	FUNCTION	CONNECTION
1	SPARE FIBER OPTIC SPLICE CLOSURE	DCF-KE-04, BLU/BLU 1
2	SPARE FIBER OPTIC SPLICE CLOSURE	DCF-KE-04, BLU/ORA 2
3	TONE EQUIP. FUTURE CONNECTION	DCF-KE-04, BLU/GRE 3
4	TONE EQUIP. FUTURE CONNECTION	DCF-KE-04, BLU/BRO 4
5	SPARE FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
6	SPARE FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
7	SPARE FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
8	SPARE FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
9	SPARE FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
10	SPARE FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
11	SPARE FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
12	SPARE FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED

TO FIBER OPTIC SPLICE CLOSURE FOR CMV-KE-04c (HARLEM SURV.)

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-KE-04a (FROM KE11)		
FIBER NO.	FUNCTION	CONNECTION
1	ETHERNET SWITCH	DCF-KE-04, BLU/BLU 1 WEST
2	ETHERNET SWITCH	DCF-KE-04, BLU/ORA 2 WEST
3	ETHERNET SWITCH	FUTURE EAST
4	ETHERNET SWITCH	FUTURE EAST
5	SPARE FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
6	SPARE FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
7	SPARE FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
8	SPARE FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
9	SPARE FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
10	SPARE FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
11	SPARE FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED
12	SPARE FIBER OPTIC SPLICE CLOSURE	CAPPED AND COILED

TO FIBER OPTIC INTERCONNECT CABINET FOR FIC-KE-04a (HARLEM)



USER NAME = jblakley	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED - YJ	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

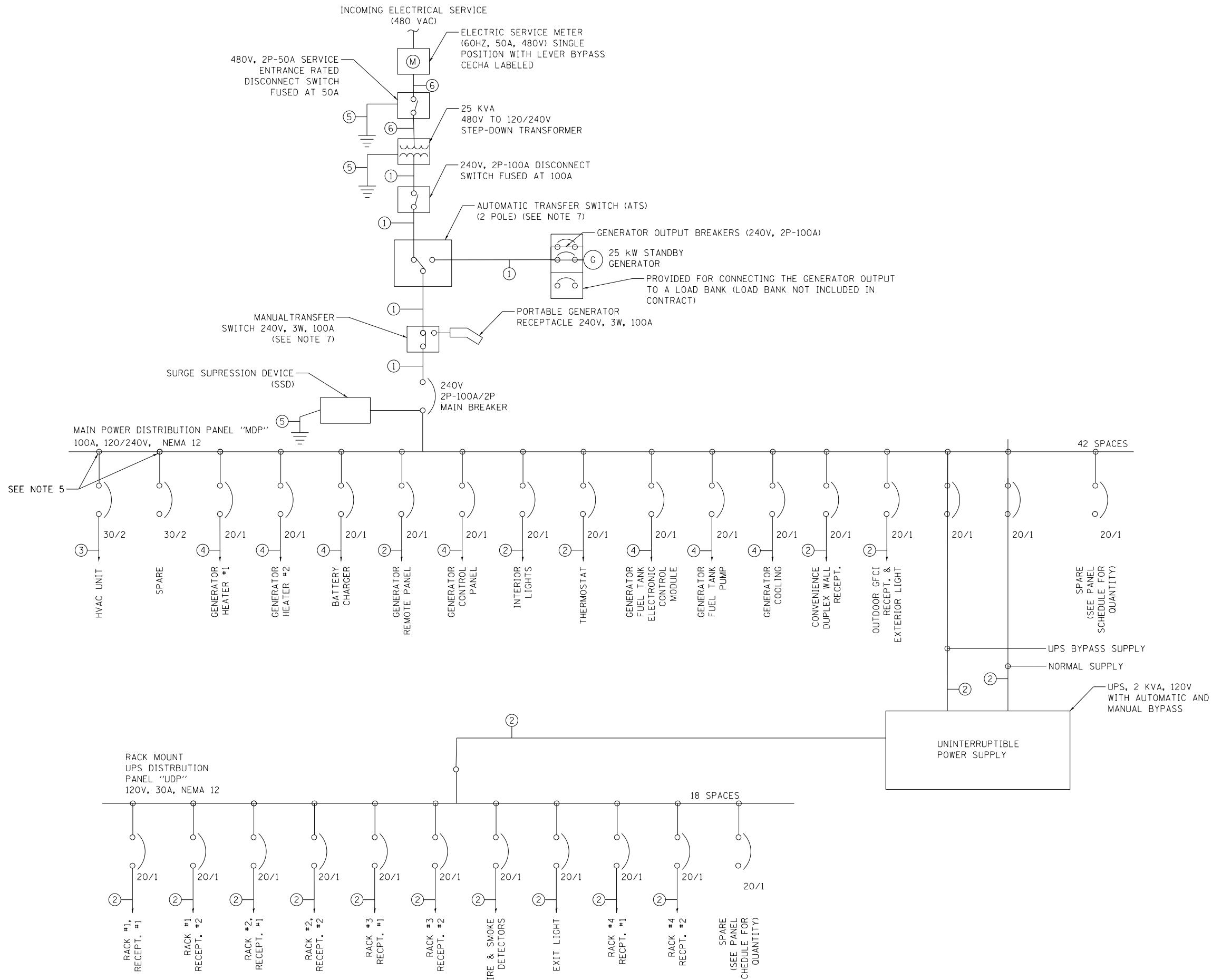
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TWELVE FIBER LATERAL CABLE FIBER ASSIGNMENTS

SCALE: N.T.S. SHEET NO. 17 OF 34 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	327
			CONTRACT NO. 60Y38	
ILLINOIS FED. AID PROJECT				

ITS-38



- NOTES:
- SEE PANEL SCHEDULES FOR BREAKER POSITIONS AND BLANK PANEL SLOTS.
 - SEE MANUFACTURER'S LITERATURE TO CONFIRM QUANTITY AND SIZE OF BREAKERS NEEDED FOR GENERATOR BEING SUPPLIED.
 - CONTRACTOR MAY RUN UP TO 4 CIRCUITS IN A SINGLE CONDUIT BETWEEN THE EQUIPMENT SHELTER AND THE GENERATOR. EACH CIRCUIT MUST HAVE ITS OWN NEUTRAL; ONLY ONE EQUIPMENT GROUND IS NEEDED IN A CONDUIT.
 - ALL CONDUCTIONS AND CABLE SHALL BE RUN IN CONDUIT; MIN SIZE 3/4" INSIDE SHELTER, MIN SIZE 2" BETWEEN SHELTER AND GENERATOR, MIN SIZE FOR SERVICE ENTRANCE. ON SUPPLY SIDE OF METER AND 2" ON LOAD SIDE.
 - NOMINAL SIZE SHOWN BREAKER MUST BE COORDINATED WITH ACTUAL HVAC UNIT SELECTED
 - RECEPTACLES POWERED FROM PANEL "UPD" ARE ATTACHED TO CABLE LADDER OVER EQUIPMENT RACKS; A PAIR OF QUADPLEX OUTLETS ARE CONNECTED TO A TOTAL OF THREE RACK MOUNTED OUTLET STRIPS IN EACH RACK.
 - THE NEUTRAL WIRE FROM THE PERMANENTLY INSTALLED STANDBY GENERATOR SHALL NOT BE SWITCHED IN THE AUTOMATIC TRANSFER SWITCH (ATS). THE NEUTRAL WIRE FROM THE PORTABLE GENERATOR WILL BE SWITCHED IN THE MANUAL TRANSFER SWITCH
 - CONTRACTOR IS RESPONSIBLE FOR SUBMITTING EQUIPMENT THAT CAN TERMINATE WIRE SIZES SHOWN OR FOR PROVIDING WIRING GUTTERS AND SPLICE KITS TO REDUCE CONDUCTOR SIZE.
 - EACH RUN OF RIGID METAL CONDUIT UPSTREAM OF, AND INCLUDING INTO "MDP", MUST END WITH AN INSULATED GROUNDING BUSHING. BUSHING INSIDE AN ENCLOSURE MUST BE BONDED TOGETHER WITH #6 AND CONNECTED TO THE GROUND BUS INSIDE EACH ENCLOSURE.

- ① (3) #1/0 & (1) #8 GND, 2" C
- ② (2) #12, (1) & (1) #12 GND
- ③ (2) #8 & (1) #10 GND
- ④ (2) #10 & (1) #12 GND
- ⑤ #2 GND WIRE
- ⑥ (3) #2 & (1) #6 GND, 2" C



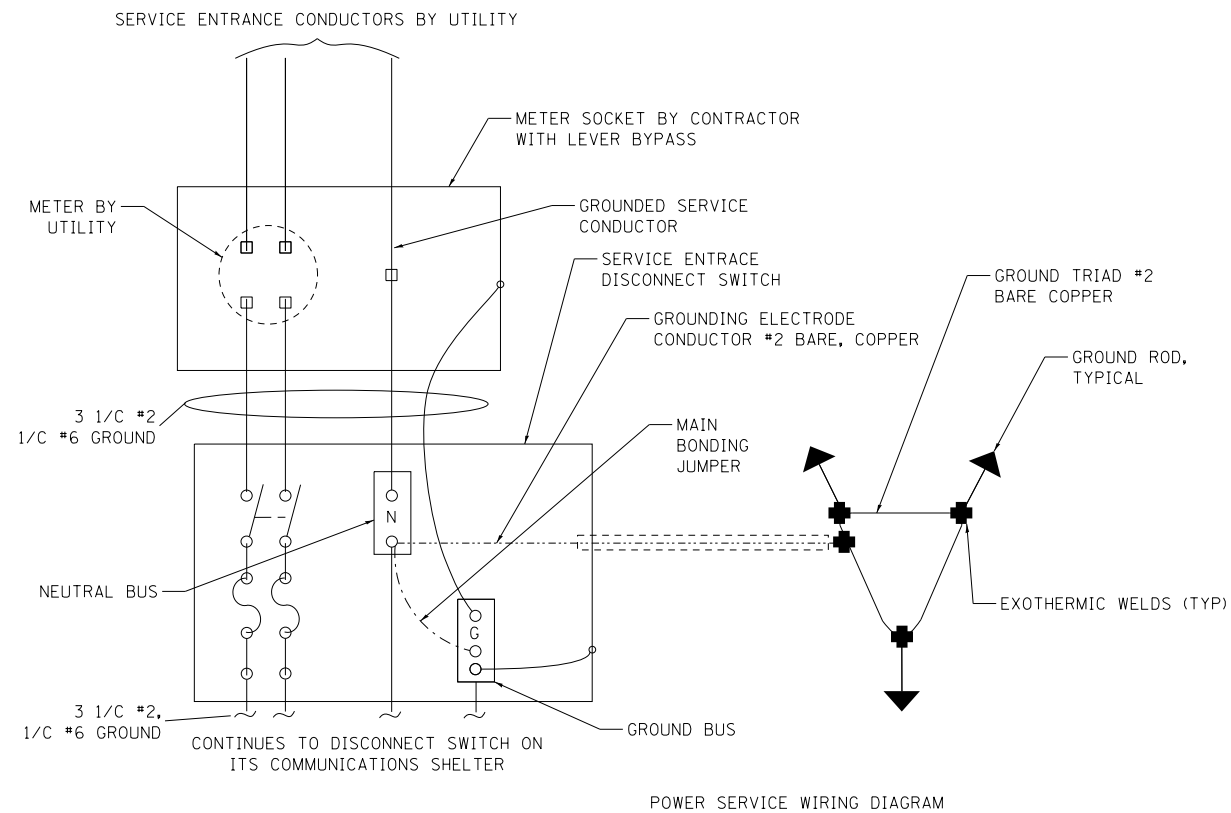
USER NAME = jblakley	DESIGNED MCD	REVISED -
	DRAWN MMK	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED KFA	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

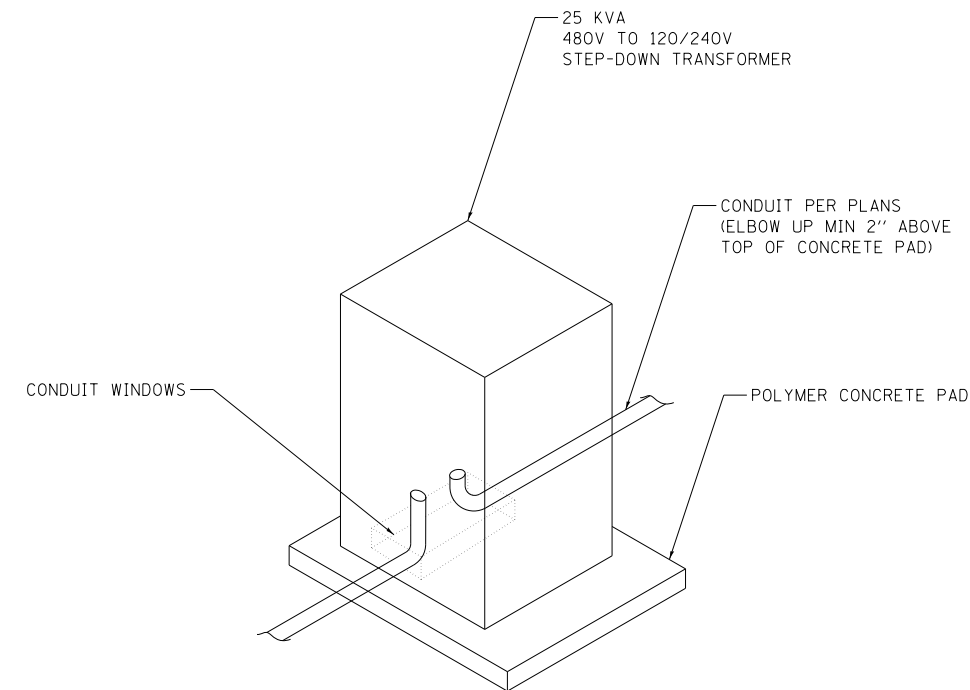
COMMUNICATIONS SHELTER SINGLE LINE DIAGRAM

SCALE: N.T.S. SHEET NO. 18 OF 34 SHEETS STA. TO STA.

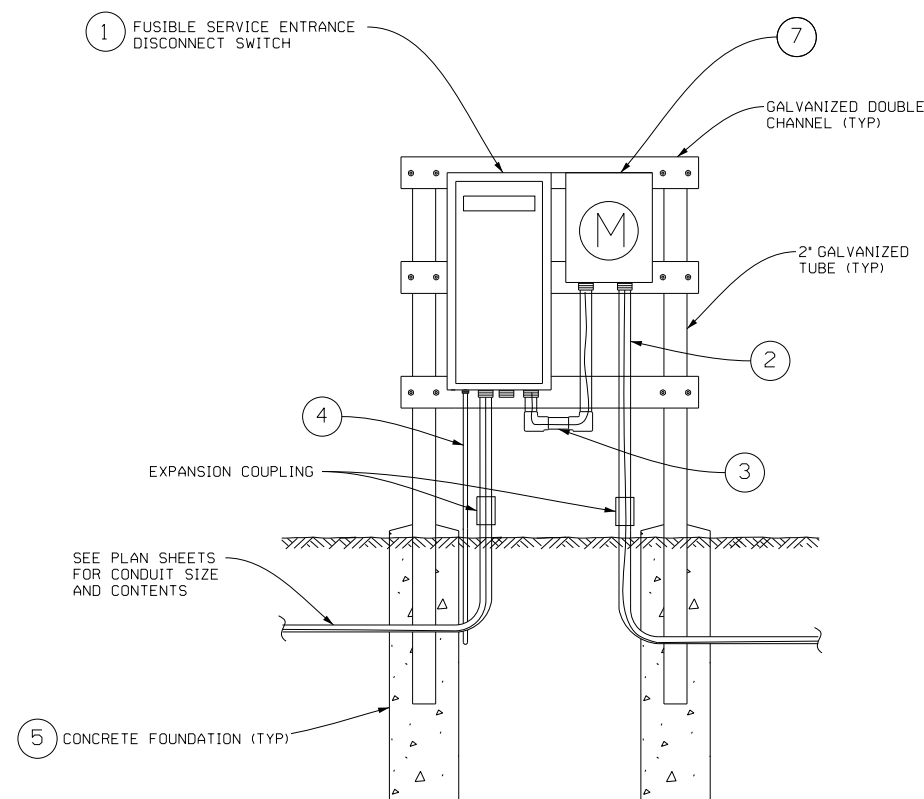
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	328
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				



POWER SERVICE WIRING DIAGRAM



TRANSFORMER AND POLYMER CONCRETE PAD



POWER SERVICE ELEVATION DETAIL

- ① NEMA 4X, STAINLESS STEEL, HEAVY DUTY FUSIBLE, SERVICE ENTRANCE RATED DISCONNECT SWITCH. FUSE SIZES PER SINGLE LINE DIAGRAM, PROVIDE AND ATTACH LABEL WITH SITE ADDRESS TO OUTSIDE OF ENCLOSURE. FURNISH WITH CONDUCTOR LUGS RATED FOR WIRE SIZES SHOWN IN WIRING DIAGRAM.
- ② 2" GALVANIZED STEEL CONDUIT (GSC) ATTACHED TO EQUIPMENT STAND. PROPER BONDING OF METALLIC CONDUIT IS REQUIRED UTILIZING INSULATED GROUNDING BUSHINGS.
- ③ 2" GSC BETWEEN ENCLOSURES.
- ④ 1-1/2" #2 BARE COPPER GROUNDING ELECTRODE CONDUCTOR IN 1" SCH. 80 PVC CONDUIT TO DISCONNECT SWITCH NEUTRAL BUS, AND GROUNDING TRIAD.
- ⑤ (2) 12" DIA. X 44" CONCRETE FOUNDATIONS, SLOPE TOP OF FOUNDATION AWAY FROM GALVANIZED TUBE FOR DRAINAGE. ONE SOLID CONCRETE FOUNDATION MAY BE USED AS AN ALTERNATE DESIGN WITH APPROVAL FROM THE ENGINEER.
- ⑥ NOT SHOWN ARE THREE 3/4" X 10' COPPER CLAD GROUND RODS EXOTHERMICALLY WELDED TO ④, CONNECTED IN A TRIANGLE, AND BONDED TOGETHER WITH BARE #2 COPPER CONDUCTOR.
- ⑦ UTILITY SERVICE METER AND METER SOCKET. FURNISH WITH CONDUCTOR LUGS RATED FOR WIRE SIZES SHOWN IN WIRING DIAGRAM AND COORDINATE WITH UTILITY FOR CONDUCTOR LUG SIZES REQUIRED ON SERVICE SIDE.

NOTES:

1. COORDINATE IN FIELD WITH COMED FOR EXACT REQUIREMENTS FOR METER SOCKET, AND CONNECTING CONDUIT.



USER NAME = jblakley	DESIGNED MCD	REVISED -
	DRAWN MMK	REVISED -
PLOT SCALE = 1/8" = 1'-0"	CHECKED KFA	REVISED -
PLOT DATE = 6/6/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

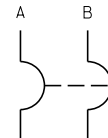
COMMUNICATIONS SHELTER
POWER SERVICE DETAILS

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	329
				CONTRACT NO. 60Y38
ILLINOIS FED. AID PROJECT				

PANEL: MDP
 RATING: NEMA 12
 MOUNTING: WALL

WIRE SIZE: #1/0 AWG
 2P-100A, 65 KAIC MAIN BREAKER



CIRCUIT DESCRIPTION	TRIP	POLES	WIRE	POSITION	POSITION	WIRE	POLES	TRIP	CIRCUIT DESCRIPTION
HVAC UNIT	30	2	8	1	2	12	1	20	UPS BYPASS
				3	4	12	1	20	UPS NORMAL
SPARE	30	2	-	5	6	-	1	20	SPARE
				7	8	12	1	20	GEN REMOTE. CONTROL PANEL
INTERIOR LIGHTS	20	1	12	9	10	10	1	20	GEN. FUEL TANK ECM
THERMOSTAT	20	1	12	11	12	10	1	20	GEN. FUEL TANK PUMP
INT. WALL RECEPT.	20	1	12	13	14	10	1	20	GEN. HEATER #1
EXT. RECPT & LIGHT	20	1	12	15	16	10	1	20	GEN. HEATER #2
SPARE	20	1	-	17	18	10	1	20	GEN. BATTERY CHARGER
SPARE	20	1	-	19	20	10	1	20	GEN. COOLING
				21	22	10	1	20	GEN CONTROL PANEL
				22	24	-	1	20	SPARE
				25	26	-	1	20	SPARE
				27	28				
				29	30				
				31	32				
				33	34				
				35	36				
				37	38				
				39	40				
				41	42				
VOLTAGE: 120/240V CYCLE: 60 Hz PHASE: 1 WIRES: 3 SOLID NEUTRAL: 100 AMPS MAIN BREAKER: 100 AMP									

PANEL: UDP
 RATING: NEMA 12
 MOUNTING: WALL

WIRE SIZE: #12



CIRCUIT DESCRIPTION	TRIP	POLES	WIRE	POSITION	POSITION	WIRE	POLES	TRIP	CIRCUIT DESCRIPTION
RACK #1, RECEPT. #1	20	1	12	1	2	12	1	20	FIRE & SMOKE DETECTORS
RACK #1, RECEPT. #2	20	1	12	3	4	12	1	20	EXIT LIGHT
RACK #2, RECEPT. #1	20	1	12	5	6				SPARE
RACK #2, RECEPT. #2	20	1	12	7	8				SPARE
RACK #3, RECEPT. #1	20	1	12	9	10				
RACK #3, RECEPT. #2	20	1	12	11	12				
RACK #4, RECEPT. #1	20	1	12	13	14				
RACK #4, RECEPT. #2	20	1	12	15	16				
				17	18				
VOLTAGE: 120 CYCLE: 60 Hz PHASE: 1 WIRES: 2 SOLID NEUTRAL: 30 AMPS MAIN LUG ONLY (M.L.O.)									

NOTES:

- BREAKERS SHOWN FOR GENERATOR LOADS THAT ARE NOT NEEDED SHALL BE FURNISHED AND LABELED "SPARE"



USER NAME = jblakley	DESIGNED MCD	REVISED -
	DRAWN MMK	REVISED -
PLOT SCALE = 1/8" = 1' / in.	CHECKED KFA	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

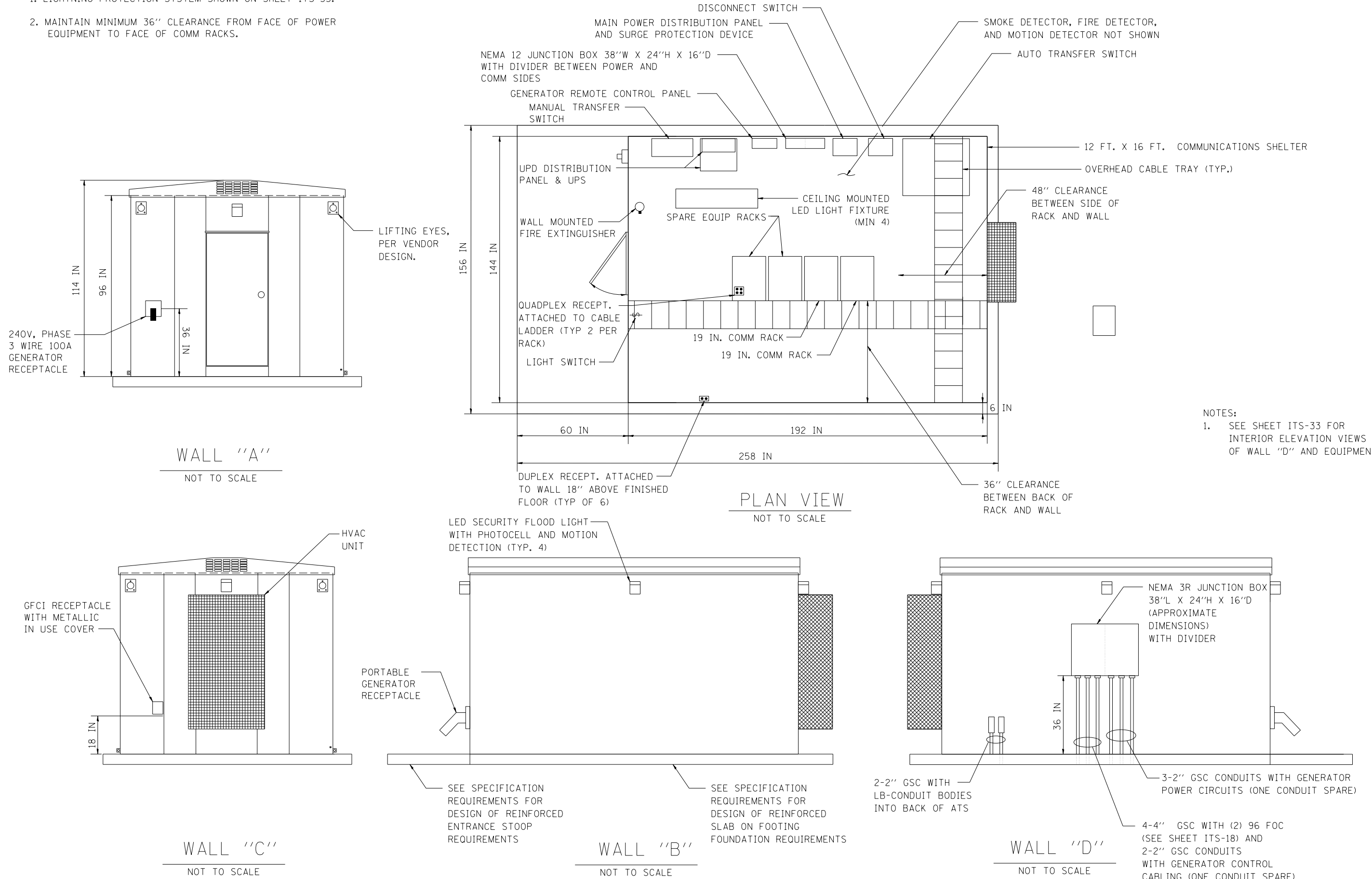
COMMUNICATIONS SHELTER
 PANEL SCHEDULES

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	330
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				

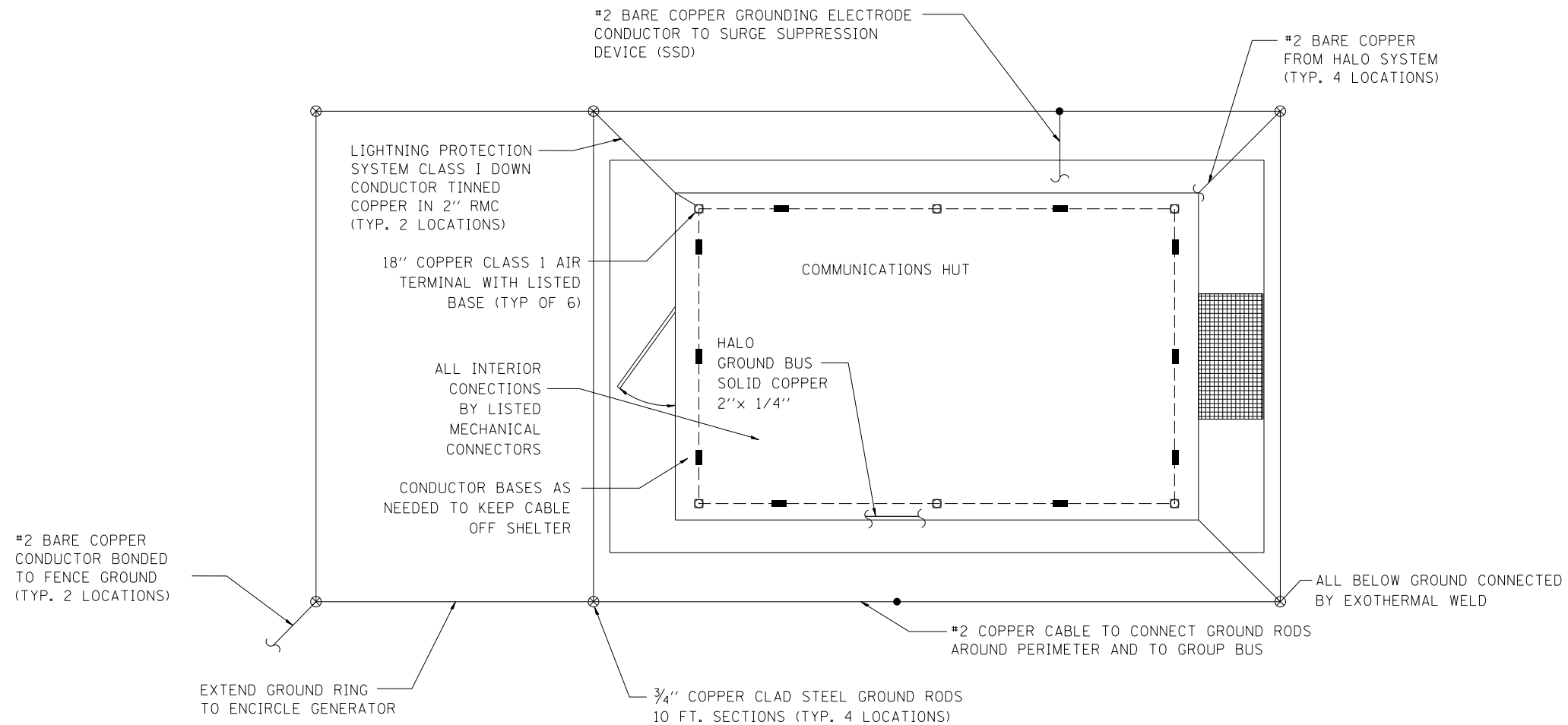
SCALE: N.T.S. SHEET NO. 20 OF 34 SHEETS STA. TO STA.

NOTES

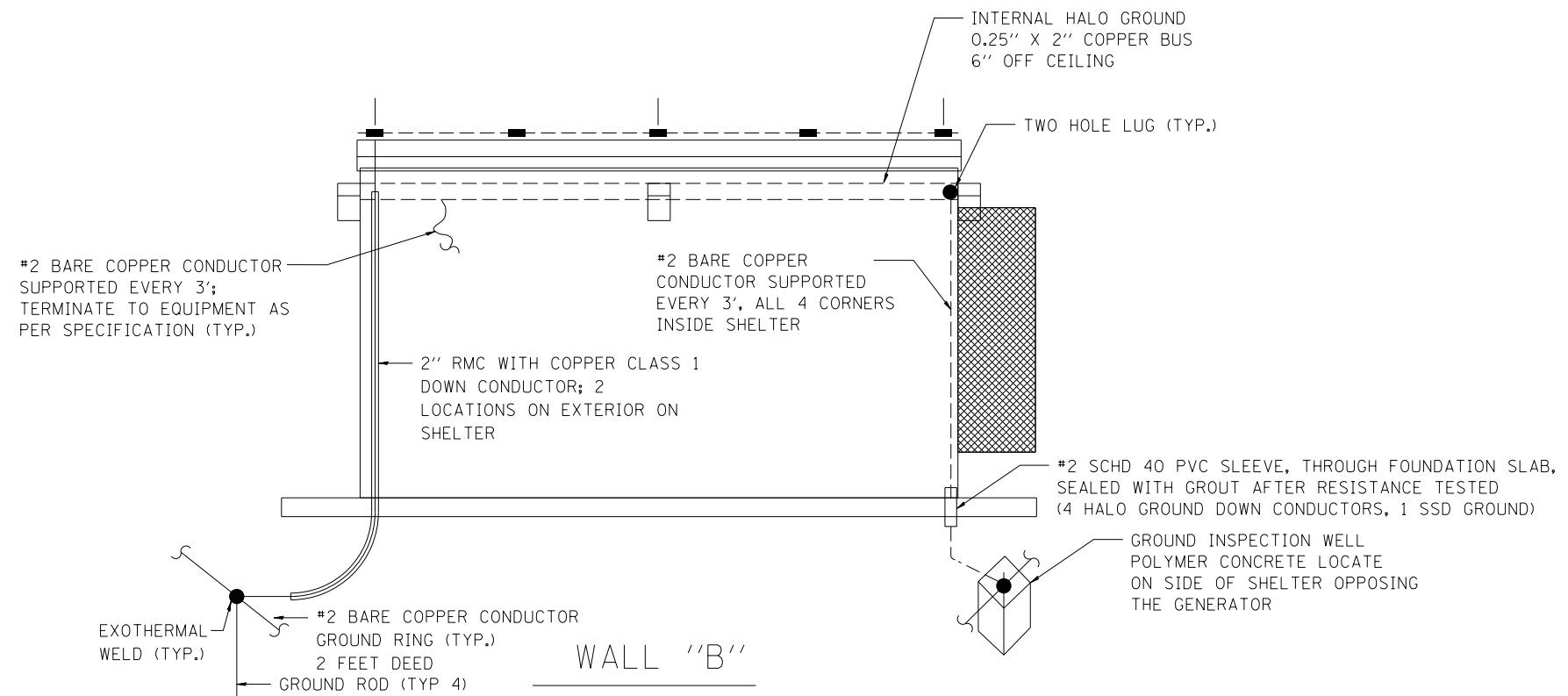
1. LIGHTNING PROTECTION SYSTEM SHOWN ON SHEET ITS-33.
2. MAINTAIN MINIMUM 36" CLEARANCE FROM FACE OF POWER EQUIPMENT TO FACE OF COMM RACKS.



- NOTES:
1. SEE SHEET ITS-33 FOR INTERIOR ELEVATION VIEWS OF WALL "D" AND EQUIPMENT RACKS.



PERIMETER GROUND PLAN



ITS-43



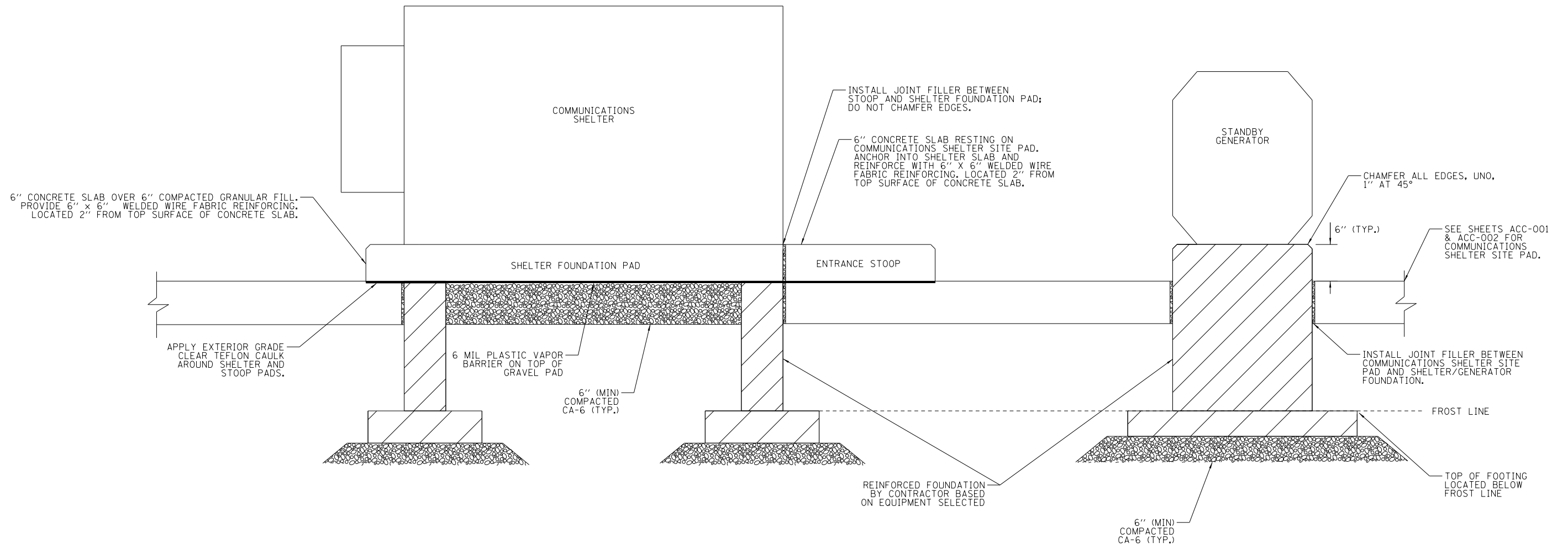
USER NAME = jblakley	DESIGNED MCD	REVISED -
	DRAWN MMK	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED KFA	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMMUNICATIONS SHELTER
LIGHTNING PROTECTION AND GROUNDING PLAN

SCALE: N.T.S. SHEET NO. 22 OF 34 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	332
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				



EQUIPMENT FOUNDATION DIAGRAMS
N.T.S.



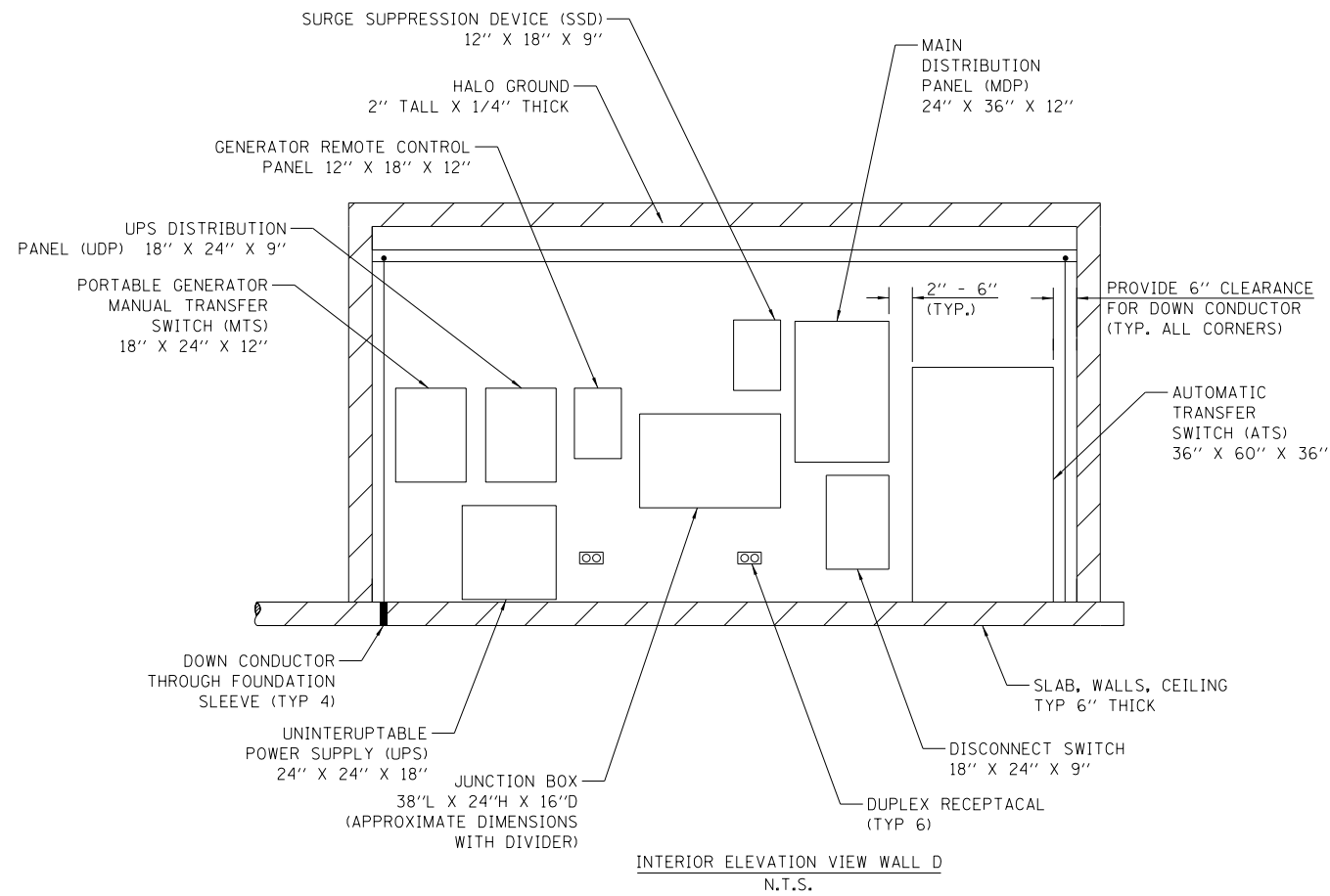
USER NAME = jblakley	DESIGNED JZ	REVISED -
	DRAWN JZ	REVISED -
PLOT SCALE = 1.0000' / in.	CHECKED YJ	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

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DEPARTMENT OF TRANSPORTATION

COMMUNICATIONS SHELTER EQUIPMENT ELEVATION

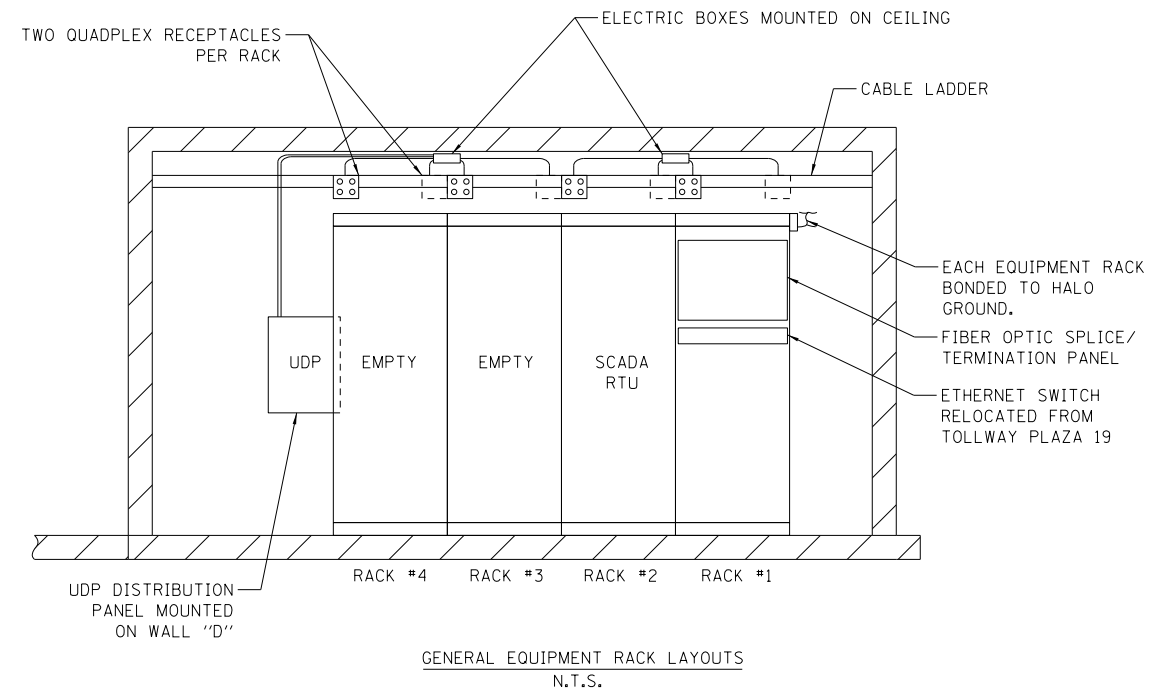
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	333
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y38	
			34	



NOTES:

1. ALL DIMENSIONS: L X H X D
2. ALL DIMENSIONS APPROXIMATE AND DEPENDANT ON ACTUAL EQUIPMENT SELECTED, PRIOR TO COMMENCING SITE INSTALLATION CONTRACTOR MUST SUBMIT SKETCH SHOWING ELEVATION VIEWS OF SHELTER WALKS WITH ELECTRICAL EQUIPMENT. SKETCH TO SHOW ACTUAL DIMENSIONS OF EQUIPMENT SELECTED, CONDUIT ROUTES, AND CLEARANCES.



NOTES:

1. INSTALL ETHERNET SWITCH IN TOP PORTION OF EQUIPMENT RACK 1. INSTALL ETHERNET SWITCH IN COORDINATION WITH THE DEPARTMENT, IL TOLLWAY, AND UIC.
2. FIBER SPLICE ASSIGNMENTS SHALL REESTABLISH EXISTING FIBER BACKHAUL LINKS THROUGH EXISTING COMMUNICATIONS VAULT NEAR TOLLWAY PLAZA 19. CLOSE COORDINATION WITH THE IL TOLLWAY AND THE DEPARTMENT IS REQUIRED.



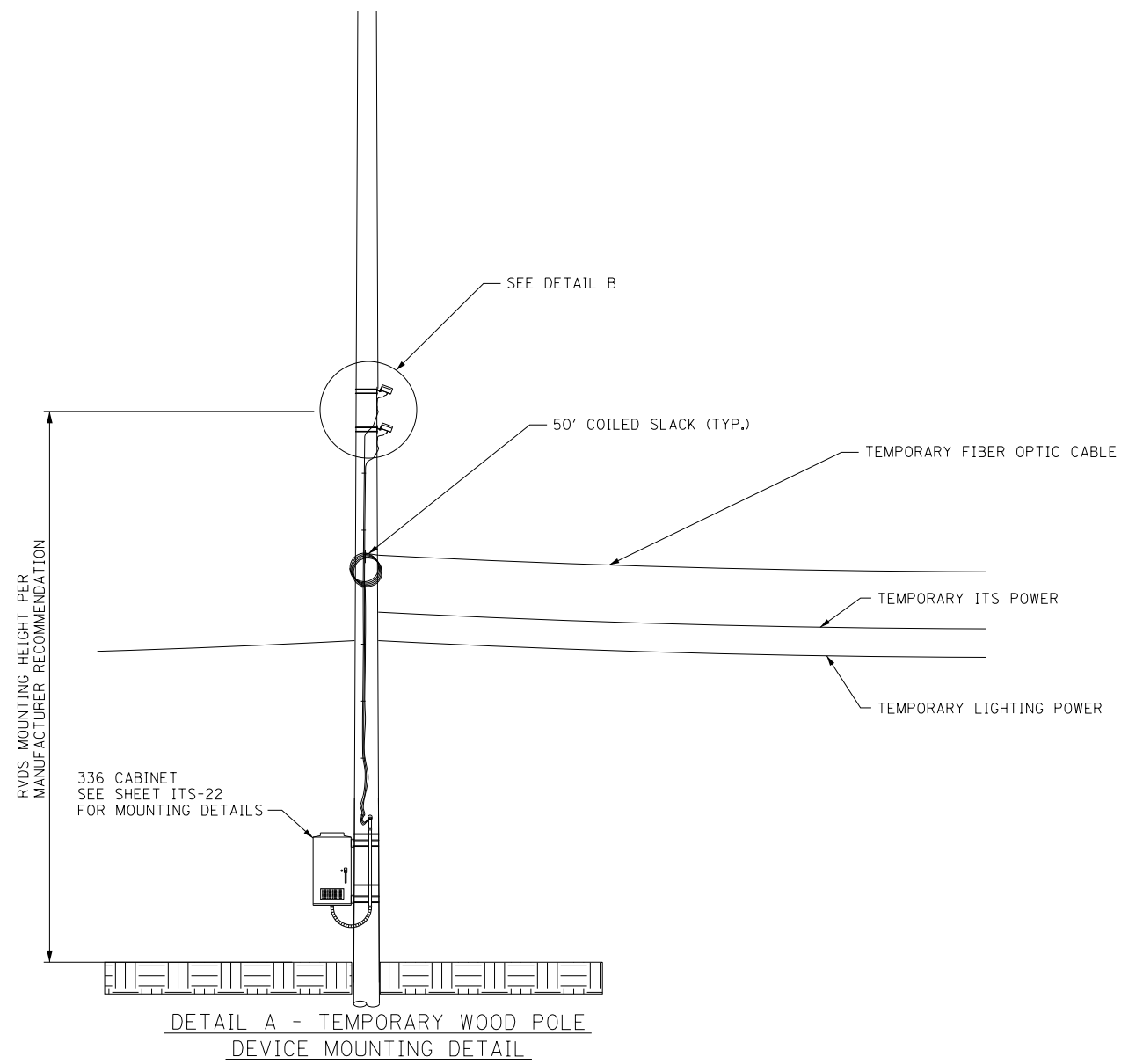
USER NAME = jblakley	DESIGNED JZ	REVISED -
	DRAWN JZ	REVISED -
PLOT SCALE = 1.0000' / 1in.	CHECKED YJ	REVISED -
PLOT DATE = 6/6/2016	DATE 5/6/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

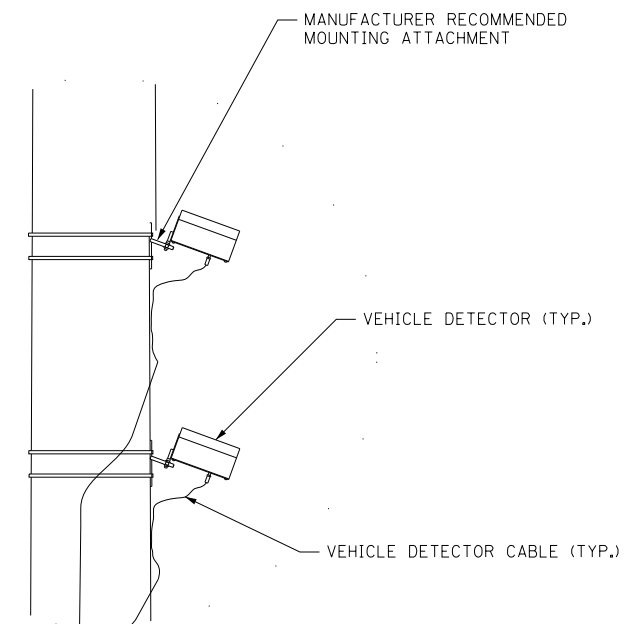
COMMUNICATIONS SHELTER EQUIPMENT SCHEMATIC

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	334
ILLINOIS FED. AID PROJECT				34



DETAIL A - TEMPORARY WOOD POLE
DEVICE MOUNTING DETAIL



DETAIL B - VEHICLE DETECTOR MOUNTING



USER NAME = jblakley	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1/8" = 1' / in.	CHECKED - YJ	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

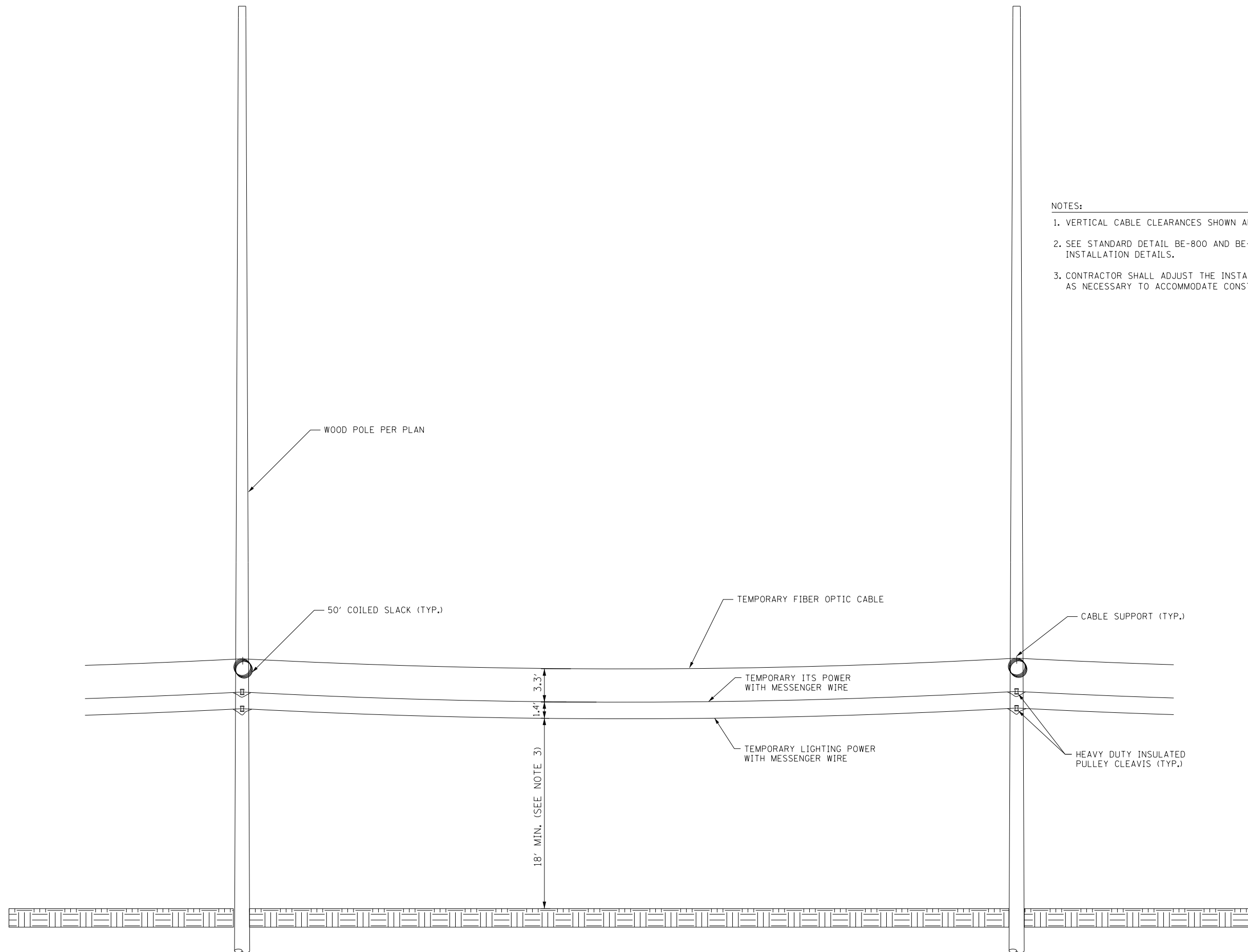
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY RADAR VEHICLE DETECTION SYSTEM AND CCTV CAMERA
INSTALLATION DETAIL

SCALE: N/A	SHEET NO. 25 OF 34 SHEETS	STA. TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	335
			CONTRACT NO. 60Y38	
ILLINOIS FED. AID PROJECT				

ITS-46



- NOTES:
1. VERTICAL CABLE CLEARANCES SHOWN ARE MINIMUMS PER NESC.
 2. SEE STANDARD DETAIL BE-800 AND BE-801 FOR MESSENGER WIRE INSTALLATION DETAILS.
 3. CONTRACTOR SHALL ADJUST THE INSTALLATION HEIGHT AS NECESSARY TO ACCOMMODATE CONSTRUCTION ACTIVITIES.



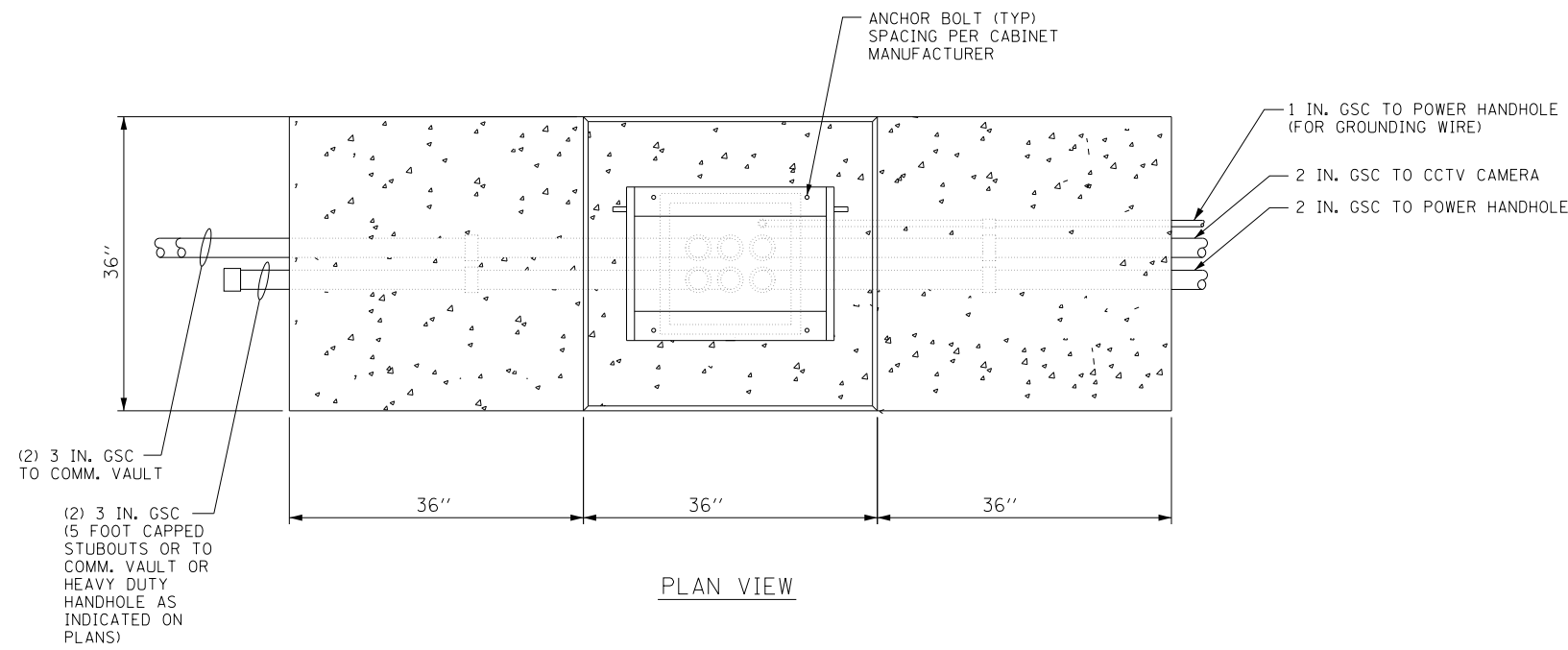
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	DRAWN - JZ	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED - YJ	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY ITS AERIAL CABLE INSTALLATION DETAIL			
SCALE: N/A	SHEET NO. 26 OF 34 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	336
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y38	

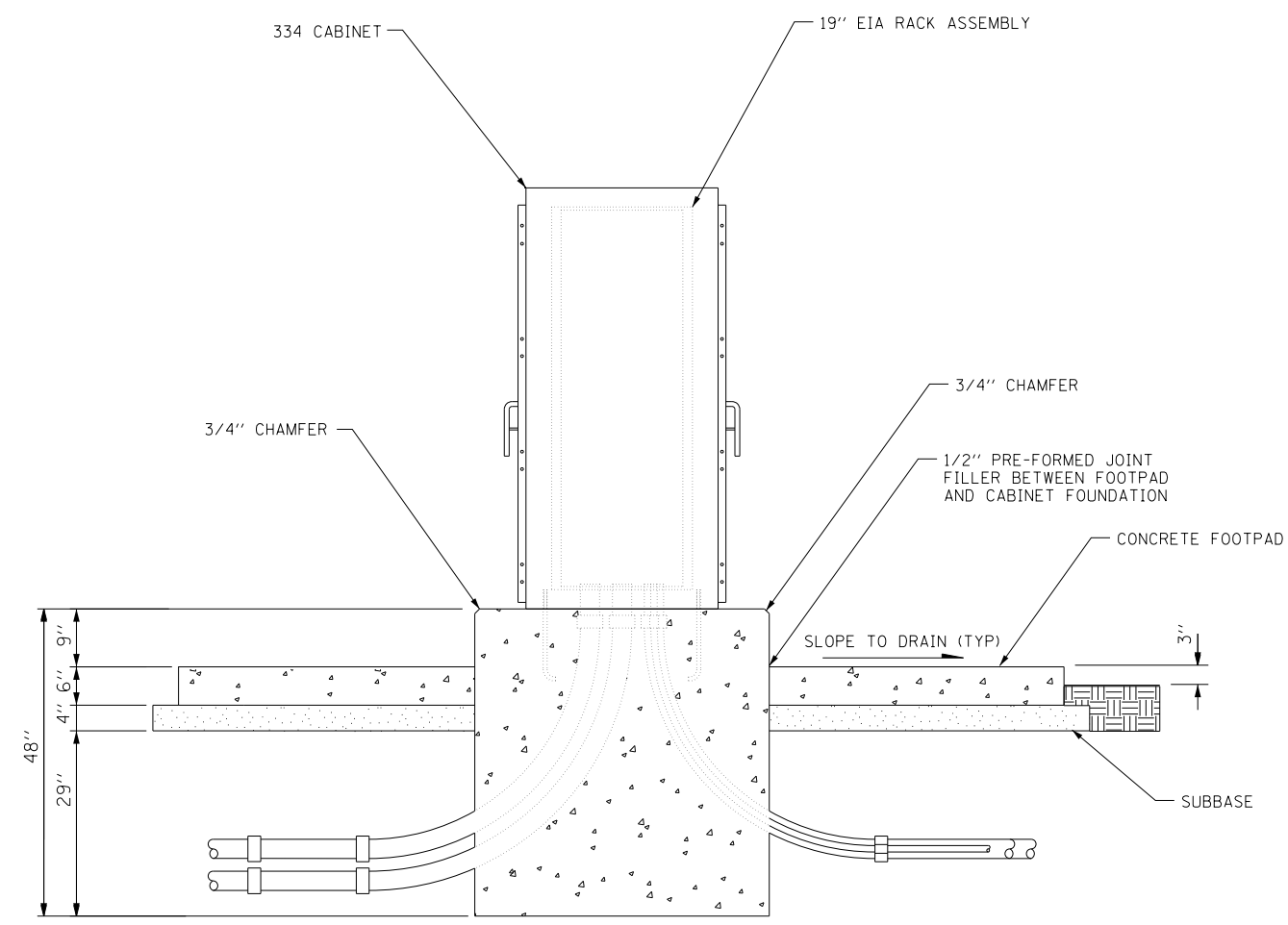
ITS-47



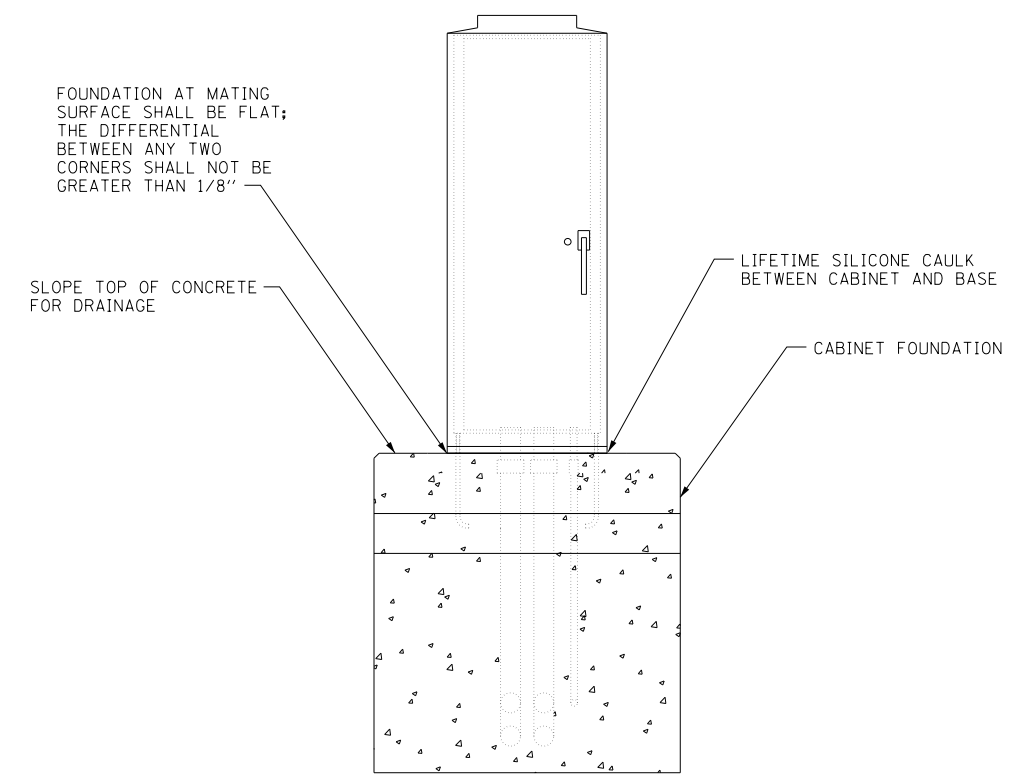
PLAN VIEW

NOTES:

1. ADJUST THE ELEVATIONS OF CONCRETE FOOTPADS TO MEET THE SITE CONDITIONS.
2. COMPACT THE SOIL BENEATH THE CONCRETE FOOTPAD AND AGGREGATE IN PLACE WITH A PLATE COMPACTOR OR OTHER COMPACTION METHOD APPROVED BY THE ENGINEER, PRIOR TO PLACING THE AGGREGATE.
3. INSTALL THE NUMBER, SIZE, AND TYPE OF CONDUIT(S) FOR COMMUNICATIONS AND POWER AS SHOWN IN THE PLANS. DETERMINE THE APPROACH/ENTRY ANGLE TO FOUNDATION BASED ON SITE CONDITIONS. THE NUMBER AND LOCATION OF CONDUIT SWEEPS SHOWN IN THIS DRAWING ARE DIAGRAMMATIC.
4. INSTALL A 3/4" X 10 FT. GROUNDING ROD IN POWER HANDHOLE NEAREST TO THE CABINET. INSTALL AN INSULATED #2 GROUND WIRE FROM THE CABINET TO THE GROUNDING ROD AND EXOTHERMICALLY BOND TO THE GROUND ROD.



ELEVATION (FRONT)



ELEVATION (SIDE)



USER NAME = jblakley	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1:80' / in.	CHECKED - YJ	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

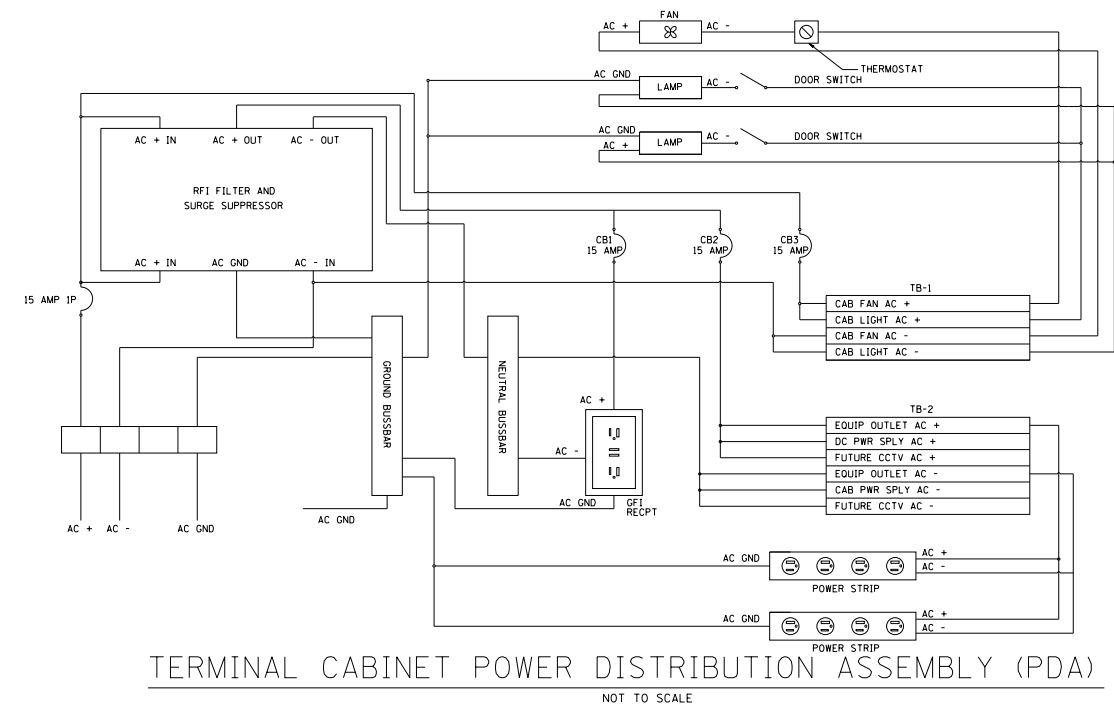
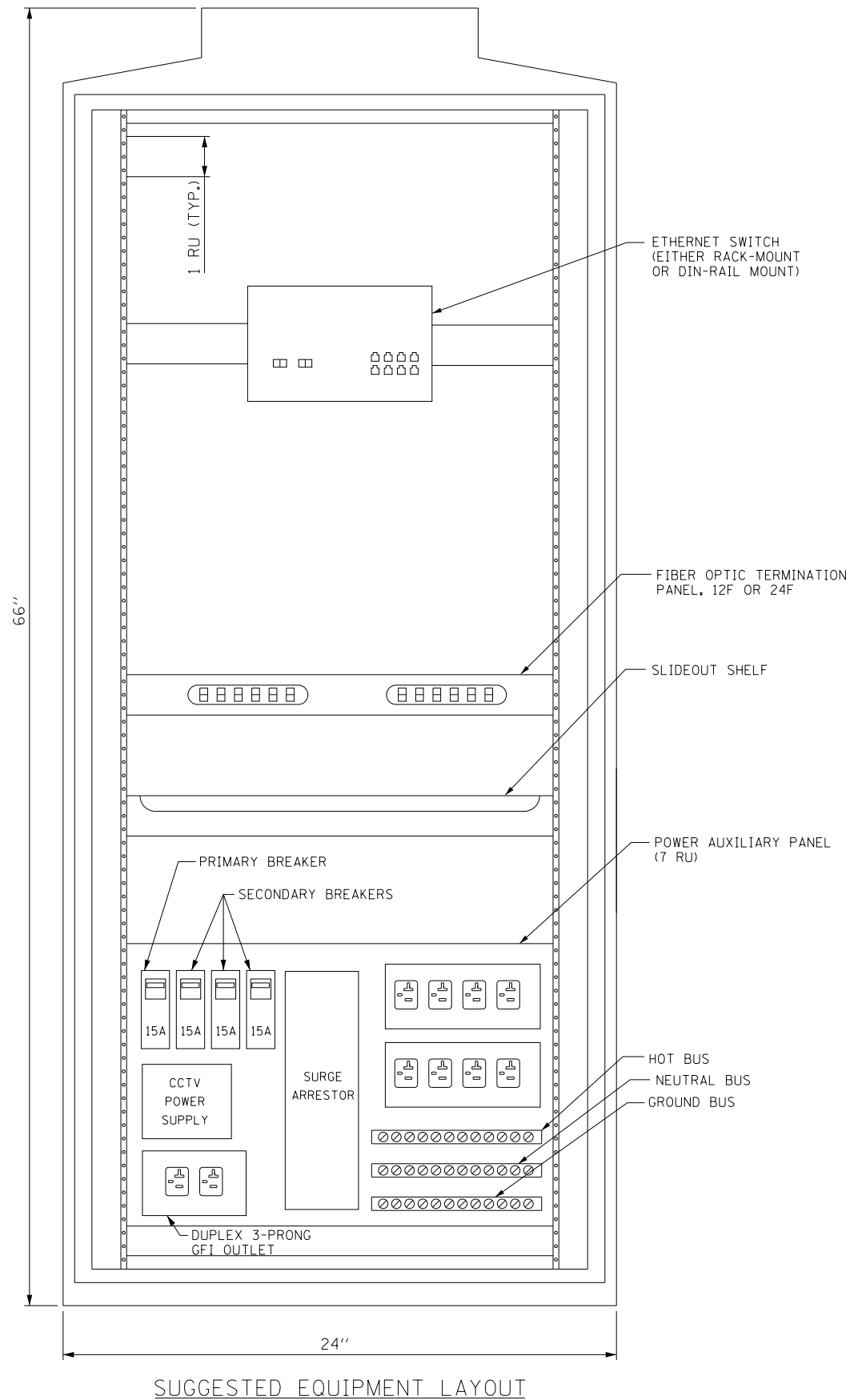
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABINET, MODEL 334
INSTALLATION DETAIL

SCALE: N.T.S SHEET NO. 27 OF 34 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	337
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				

ITS-48



- NOTES:
1. CABINET DIMENSIONS ARE ROUNDED TO THE NEAREST INCH.
 2. CABINET LIGHT AND FAN NOT SHOWN.



USER NAME = jblakley	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED - YJ	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

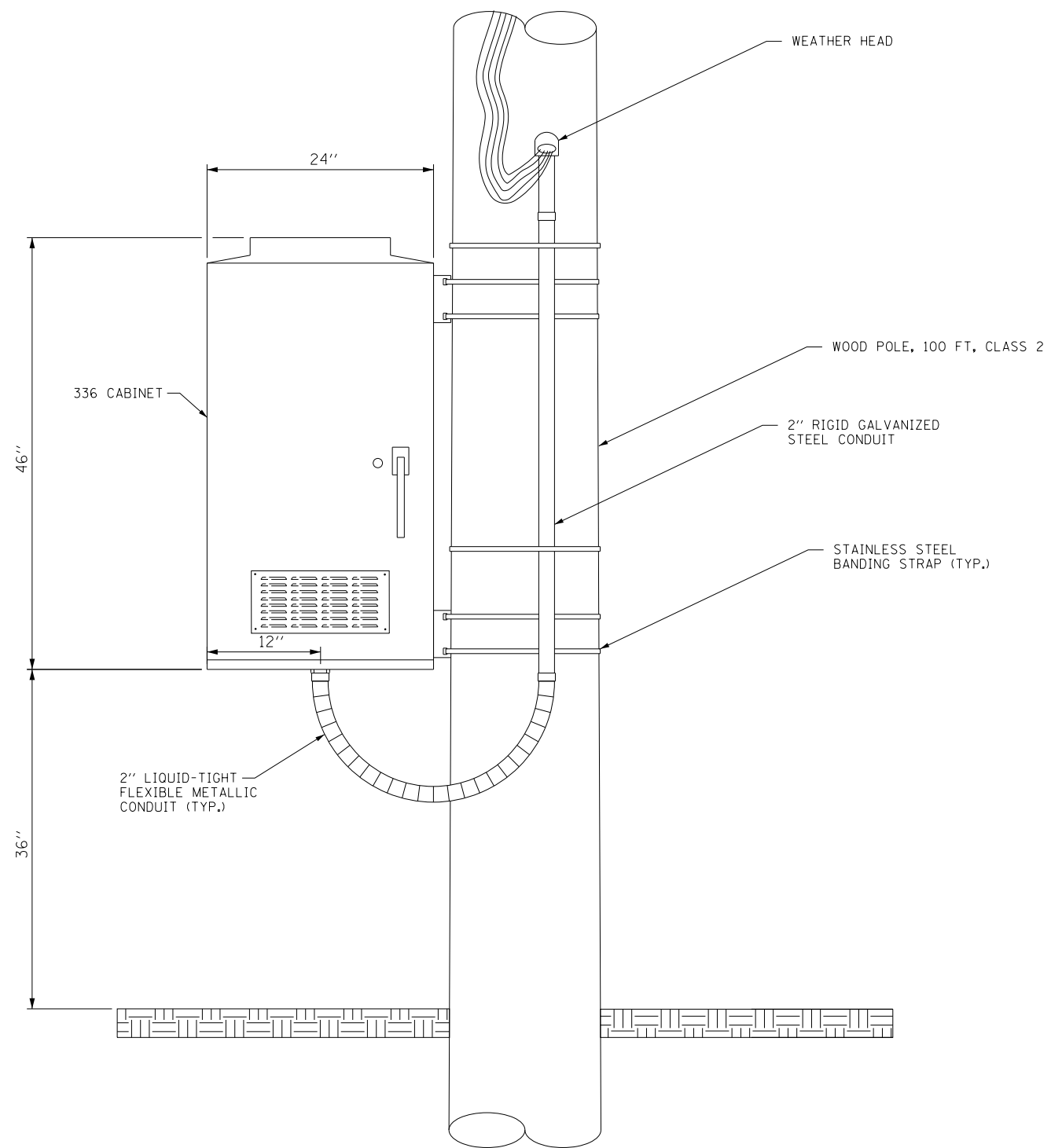
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABINET, MODEL 334
RACK LAYOUT**

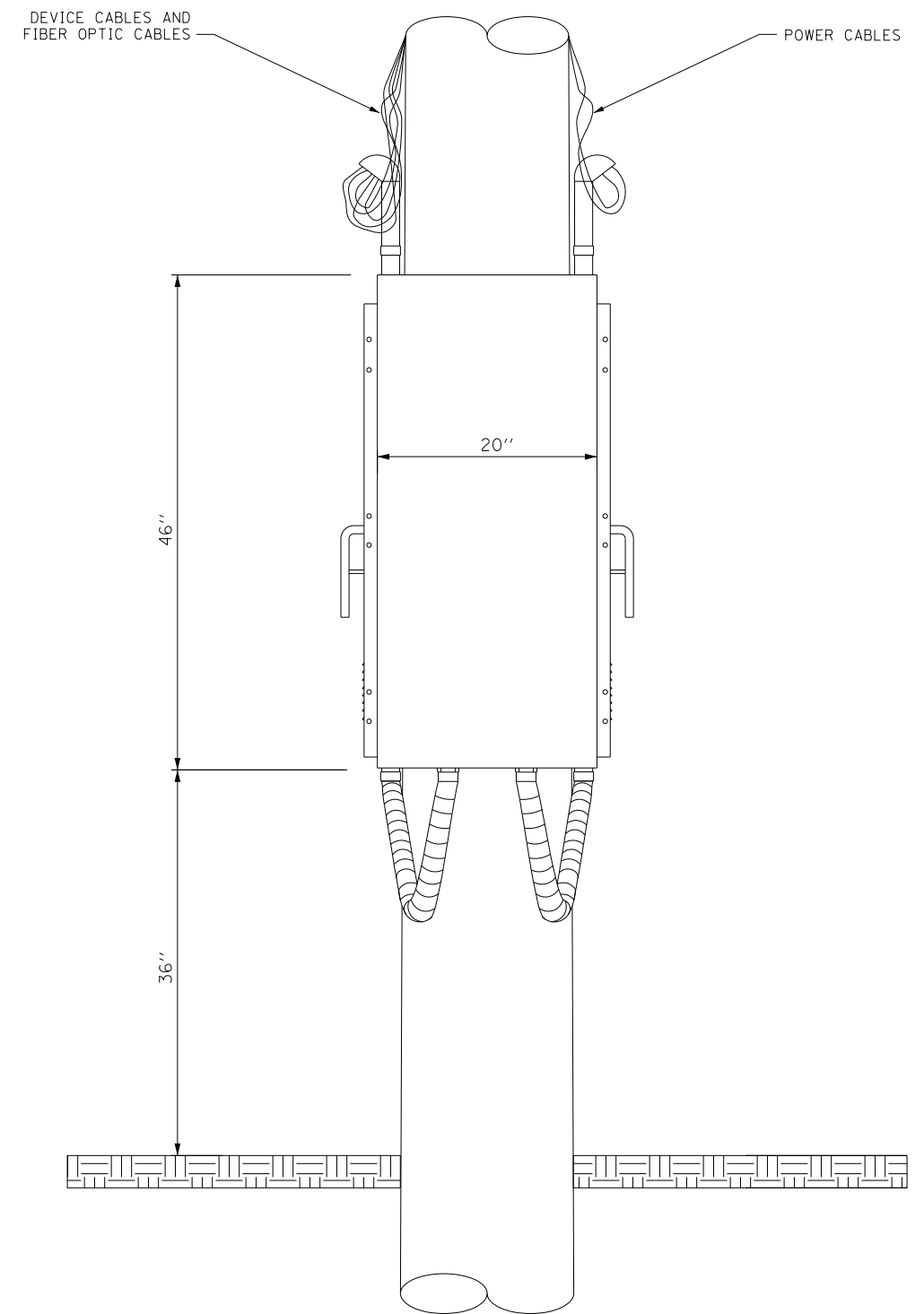
SCALE: N/A SHEET NO. 28 OF 34 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	338
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				

ITS-49



POLE-MOUNTED CABINET
CONDUIT INSTALLATION DETAIL
(SIDE VIEW)



POLE-MOUNTED CABINET
CONDUIT INSTALLATION DETAIL
(FRONT VIEW)



USER NAME = jblakley	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED - YJ	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

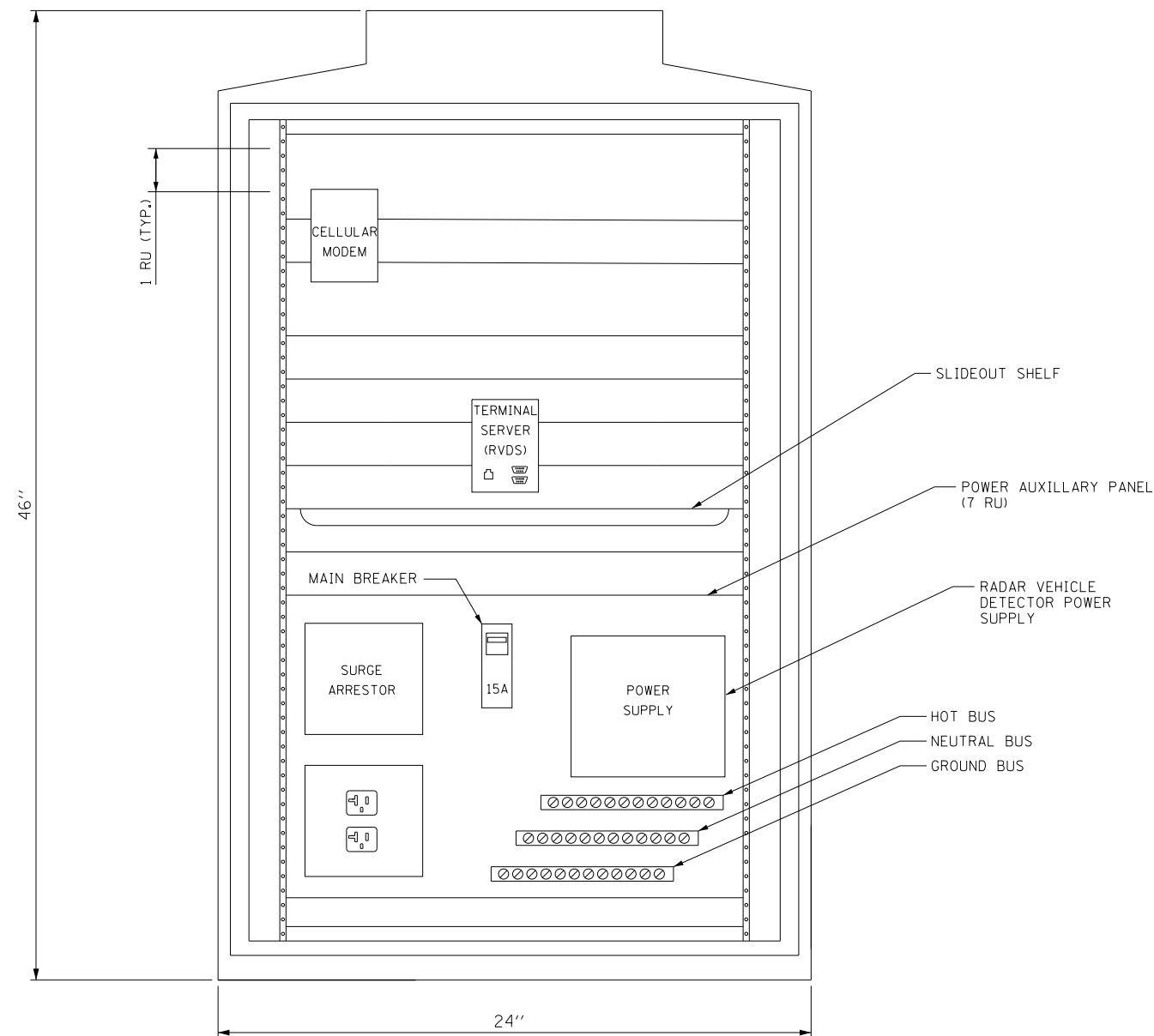
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABINET, MODEL 336
INSTALLATION DETAIL

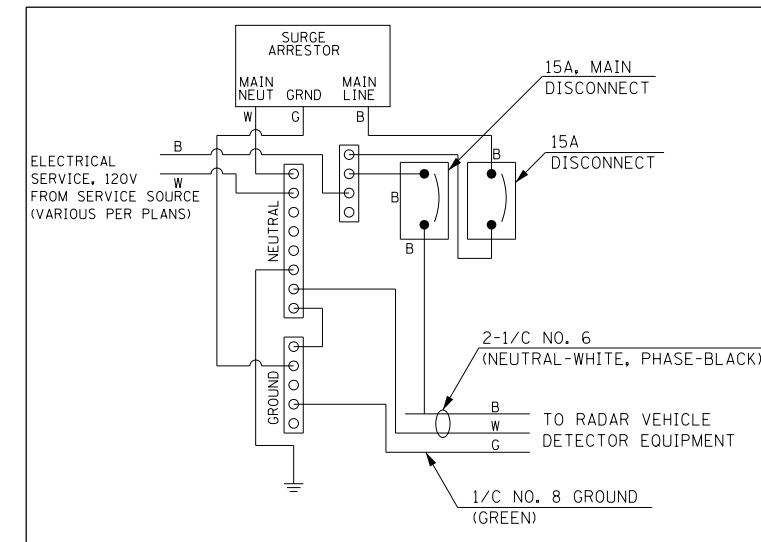
SCALE: N.T.S. SHEET NO. 29 OF 34 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	339
				CONTRACT NO. 60Y38
ILLINOIS FED. AID PROJECT				

ITS-50



SUGGESTED EQUIPMENT LAYOUT



NOTES:

1. CABINET DIMENSIONS ARE ROUNDED TO THE NEAREST INCH.
2. THE CABINET SHALL BE MOUNTED TO THE POLE USING FOUR STAINLESS STEEL STRAPS.
3. CABINET LIGHT AND FAN NOT SHOWN.
4. CELLULAR MODEM EXTERNAL ANTENNA IS NOT SHOWN. IT SHALL BE INSTALLED IF REQUIRED AS DIRECTED BY THE ENGINEER.



USER NAME = jblakley	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED - YJ	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

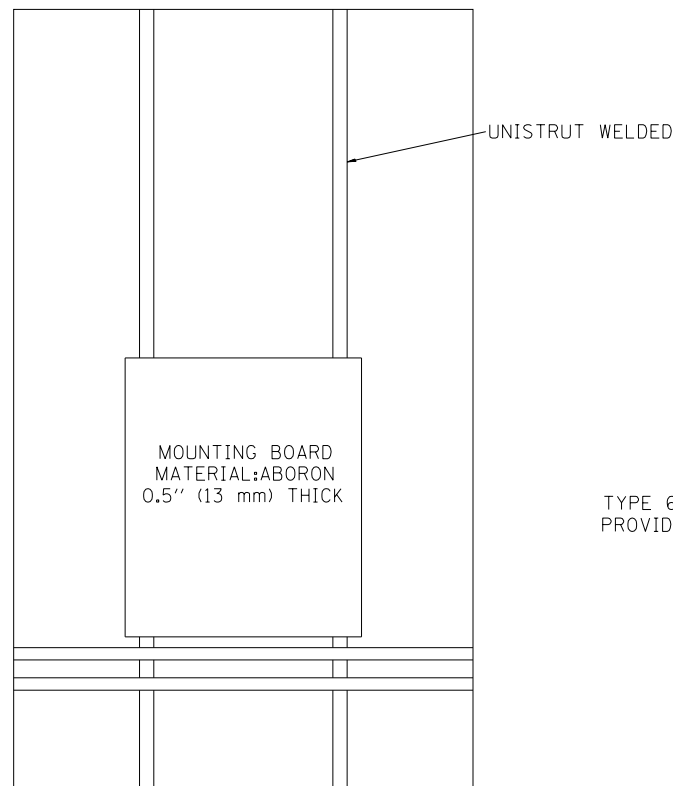
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABINET, MODEL 336
RACK LAYOUT

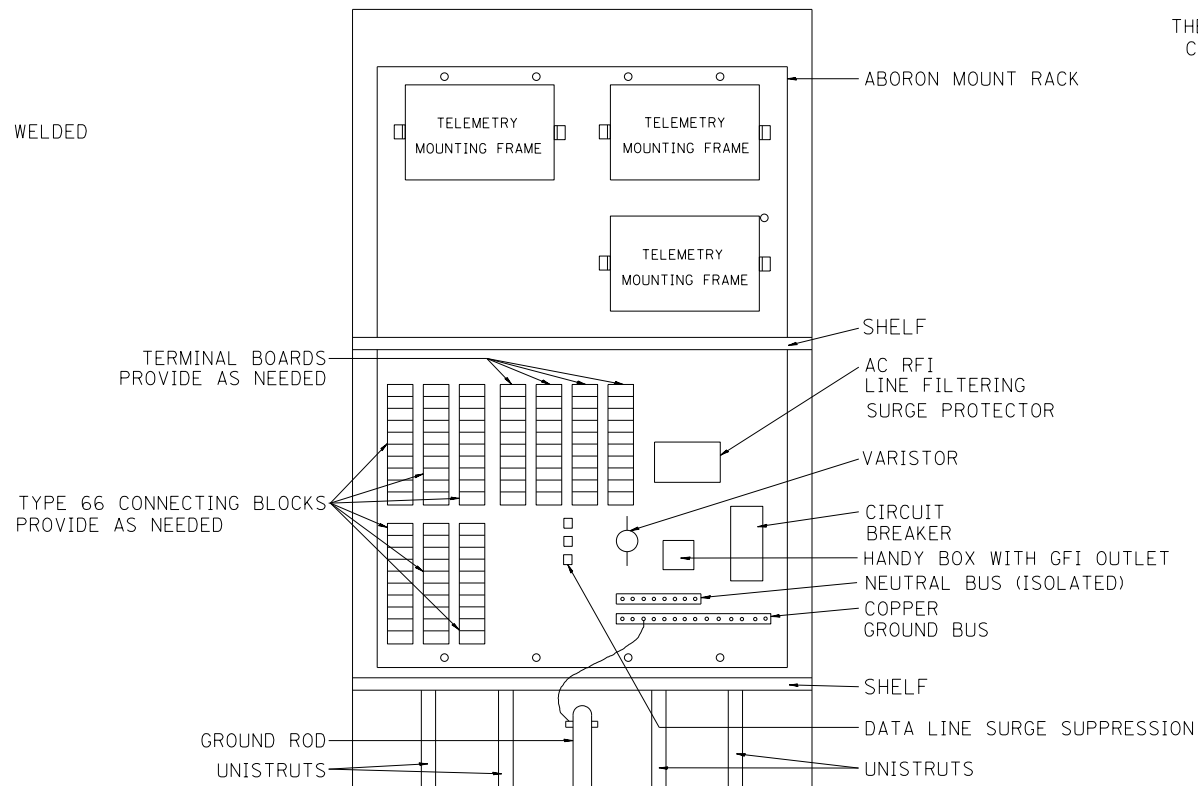
SCALE: N.T.S. SHEET NO. 30 OF 34 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	340
			CONTRACT NO. 60Y38	
ILLINOIS FED. AID PROJECT				

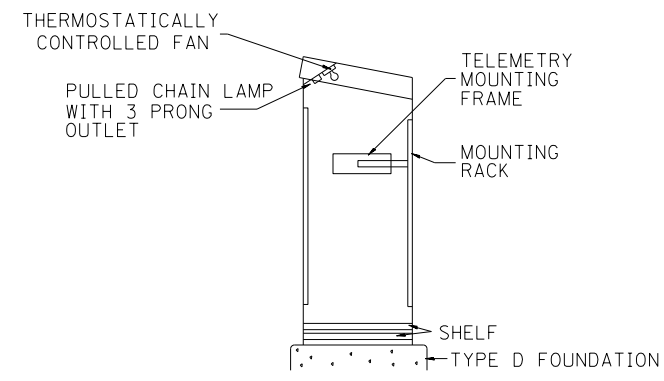
ITS-51



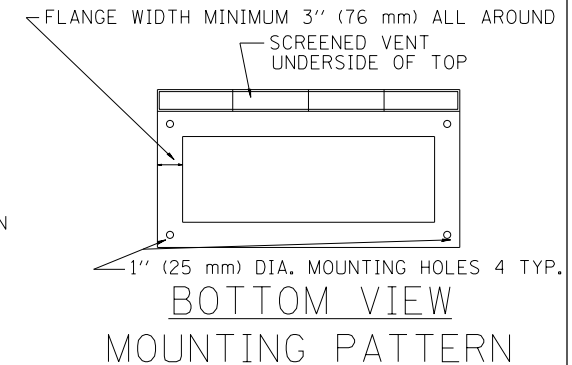
SIDE VIEW ESP 4 CABINET



ESP 4 CABINET



PROFILE VIEW



BOTTOM VIEW MOUNTING PATTERN

TYPICAL CABINET INTERIORS
STANDARD TRAFFIC SYSTEMS CENTER CABINETS

TYPE	MINIMUM DIMENSIONS			INSIDE THICKNESS (IN-mm)	MATERIAL
	HEIGHT (IN-m)	WIDTH (IN-m)	DEPTH (IN-mm)		
ESP4	55" (1.4 m)	44" (1.12 m)	26" (660.4mm)	3/16" (4.76mm)	FABRICATED ALUMINUM

NOTES:

- CABINETS, CABINET POSTS AND CABINET PEDESTALS SHALL BE PRIMED AND PAINTED IN ACCORDANCE WITH SECTION T637 OF THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS". THE FINAL COAT SHALL BE (X) IN COLOR. THE INTERIOR SHALL BE PAINTED WHITE.
- CABINETS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION T400 OF THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS".
- ALL CABINETS WHICH ARE SERVICED BY 117 VOLTS A.C. POWER SHALL BE EQUIPPED WITH A 10 AMP CIRCUIT BREAKER, A.C. R.F.I. LINE FILTERING SURGE PROTECTOR, VARISTOR, DATA SURGE AND LOOP SURGE PROTECTORS AS INCIDENTAL TO THE COST OF THE CABINET.
- ESP 2/3/4 CABINETS SHALL BE FITTED WITH A THERMOSTATICALLY CONTROLLED FAN. IT SHALL BE MOUNTED AT THE TOP OF THE CABINET. THE FAN SHALL BE CAPABLE OF OPERATING AT 130 CPM AT 160' OF STATIC WATER PRESSURE. A PORCELAIN BASED PULL CHAIN FIXTURE WITH 3 PRONG OUTLET SHALL ALSO BE PROVIDED.
- INCIDENTAL TO THE COST OF EACH CABINET THE CONTRACTOR SHALL CONSTRUCT A 5 INCH (127 mm) PCC SIDEWALK OF A RECTANGULAR AREA 6 FEET (1.83 m) BY 8 FEET (2.44 m) IMMEDIATELY ADJACENT TO THE CABINET FOUNDATION ON THE SAME SIDE OF THE FOUNDATION AS THE CABINET DOOR TO PROVIDE FOOTING DURING INSTALLATION AND MAINTENANCE
- ANCHOR BOLTS FOR PEDESTAL AND BASE MOUNTED CABINETS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CABINET.
- ALL CABINETS SHALL HAVE TERMINAL BLOCKS AND SHELVES AS SHOWN. THESE ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CABINET.
- THE CABINET DOOR SHALL BE HINGED ON THE RIGHT SIDE WHEN FACING THE CABINET. THE DOOR SHALL BE FURNISHED WITH A GASKET THAT SHALL FORM A WEATHER TIGHT SEAL BETWEEN THE CABINET AND DOOR. THE HINGES SHALL BE CONTINUOUS AND BOLTED TO THE CABINET AND DOOR UTILIZING 1/4-20 STAINLESS STEEL CARRIAGE BOLTS AND NY-LOCK NUTS. THE HINGES WILL BE MADE OF STAINLESS STEEL WITH A 0.25 INCH (6.35 mm) DIAMETER STAINLESS STEEL HINGE PIN. THE HINGE PIN SHALL BE CAPPED TOP AND BOTTOM BY WELD TO RENDER IT TAMPER PROOF.
- THE LATCHING MECHANISM SHALL BE A 3 POINT DRAW ROLLER TYPE. THE CENTER CATCH AND PUSHRODS SHALL BE EITHER CADMIUM OR ZINC PLATED, TYPE II CLASS I. PUSHRODS WILL BE TURNED EDGEWISE AT THE OUTWARD SUPPORTS AND SHALL BE 0.25 INCH (6.35 mm) BY 0.75 INCH (19.05 mm), MINIMUM. ROLLERS SHALL HAVE A MINIMUM DIAMETER OF 0.875 INCH (22.22 mm) AND WILL BE MADE OF NYLON. THE CENTER CATCH SHALL BE FABRICATED FROM 0.14 INCH (3.55 mm) STEEL, MINIMUM. WHEN THE DOOR IS CLOSED AND LATCHED, IT WILL BE LOCKED. THE LATCHING HANDLE SHALL HAVE A PROVISION FOR PADLOCKING IN THE CLOSED POSITION. AN OPERATING HANDLE SHALL BE FURNISHED WITH EACH LOCK. THE HANDLE WILL BE STAINLESS STEEL WITH A 0.75 INCH (19.05 mm) DIAMETER SHANK.
- THE ENCLOSURE SHALL BE EQUIPPED WITH TWO ADJUSTABLE "C" MOUNTING CHANNELS WELDED ON BOTH SIDE WALLS AND 4 ADJUSTABLE "C" MOUNTING CHANNELS WELDED ON THE BACK WALL OF THE ENCLOSURE, ALLOWING VERSATILE POSITIONING OF SHELVES OR PANELS. MOUNTING CHANNELS SHALL BE FACTORY PAINTED SAME COLOR AS INTERIOR OF CABINET.
- CABINET DOOR SHALL NOT HAVE DOORS OR LOUVERS.
- ALL FIELD CABINETS SHALL BE FITTED WITH BRASS LOCKS.
- ESP TYPE 4 CABINET FITTED WITH TWO SHELVES AS SHOWN.
- THE CONTROL CABINET SHALL BE SET PLUMB ON THE FOUNDATION AND FASTENED TO THE ANCHOR BOLTS WITH NUTS AND WASHERS. FLAT WASHERS SHALL BE INSTALLED BELOW AND ABOVE THE BASE PLATE OF THE CONTROL CABINET. LOCKWASHERS SHALL BE INSTALLED ON TOP OF THE TOP FLAT WASHER.

- | | |
|------------------|--------------------|
| EDENS | WALNUT * |
| KENNEDY | BLUE STREAK ** |
| EISENHOWER | CARIBBEAN BLUE * |
| I-290/IL53/I-355 | EVERGREEN ** |
| RYAN | YELLOW STONE II ** |
| I-55 | MEDIUM BRONZE * |
| I-57 | RED BARON ** |
| CAL-KING | BLUE STREAK ** |
| LAKE SHORE DR. | GREEN * |
| I-80 | STATUARY BRONZE ** |
- ALL RAMP METERING CABINETS LIME GREEN ***. ALL POSTS, T.S. HEADS AND SERVICES WILL BE PAINTED FEDERAL YELLOW.

- * MORTON POWDER PAINT COLOR OR EQUIVALENT.
- ** O'BRIEN POWDER PAINT COLOR OR EQUIVALENT.
- *** BENJAMIN MOORE ENAMEL COLOR OR EQUIVALENT.

NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR CONFORMING TO COLOR REQUIREMENTS



USER NAME = jblakley	DESIGNED - R.L.	REVISED - 02-98
	DRAWN - G.M.	REVISED - 03-99
PLOT SCALE = 1/80' / in.	CHECKED - R.L.	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

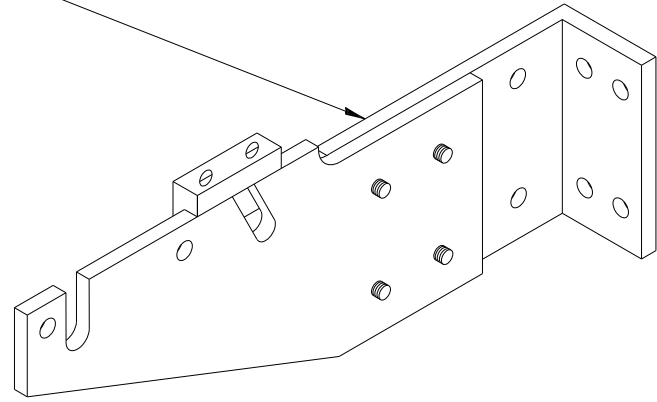
TYPE 4 CABINET
DETAIL SHEET

SCALE: N.T.S. SHEET NO. 31 OF 34 SHEETS STA. TO STA.

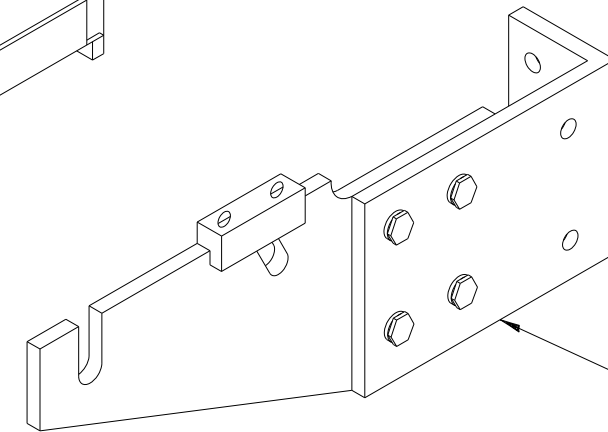
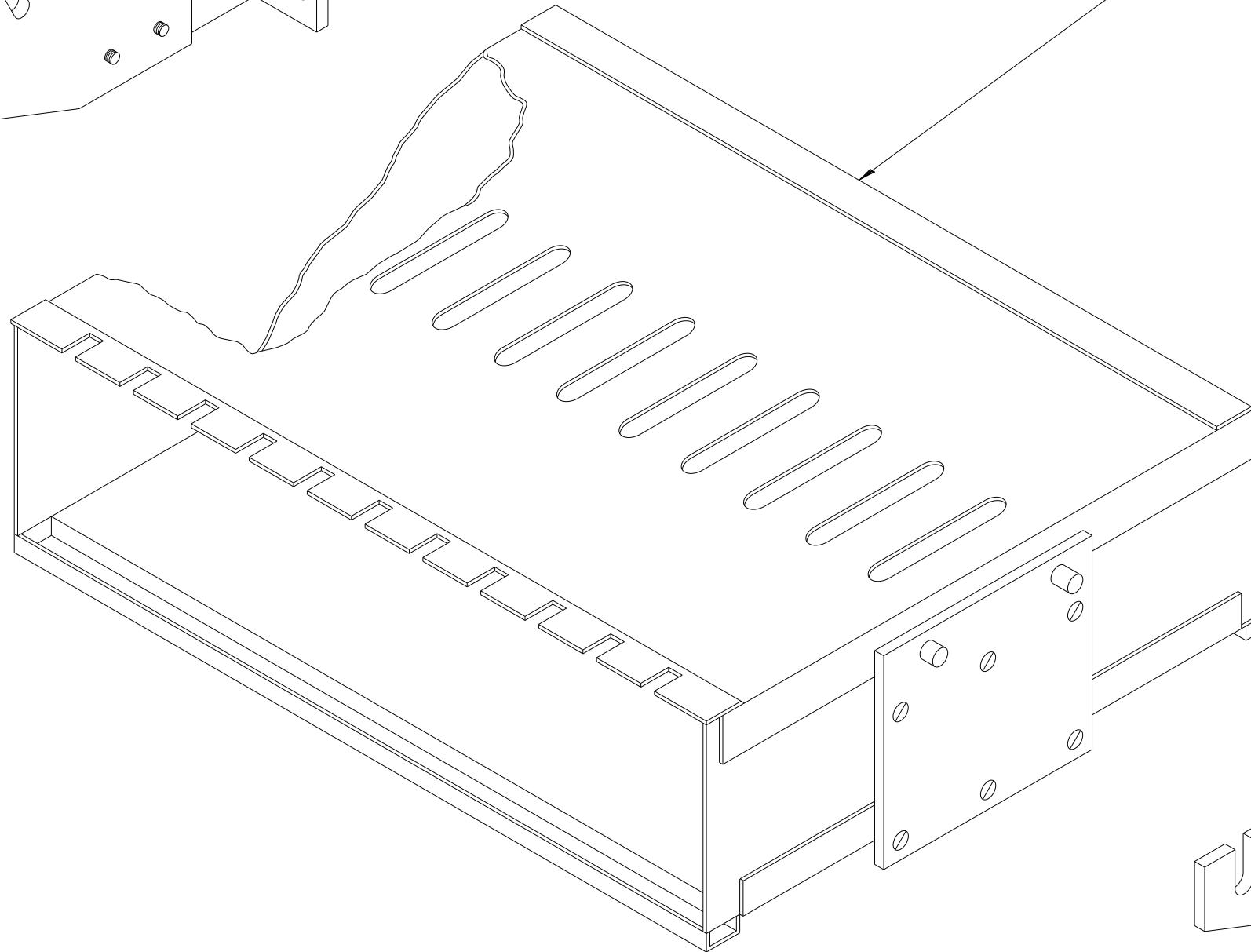
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	341
CONTRACT NO. 60Y38				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

ITS-52

CRADLE



II MODULE MOUNTING FRAME
(FOR II TYPE "A" PLUG-IN TYPE TONE MODULES)



CRADLE

NOTE:

TYPE "A" TONE MODULES ARE PLUG
IN UNIT MEASURING 5-7/32" (132.55 mm) X 1.5" (38.1 mm) X 13-3/4" (349.25 mm)



USER NAME = jblakley	DESIGNED - R.L.	REVISED - 02-98
	DRAWN - G.M.	REVISED - 03-99
PLOT SCALE = 1.00' / in.	CHECKED - R.L.	REVISED -
PLOT DATE = 6/3/2016	DATE 5/1	REVISED -

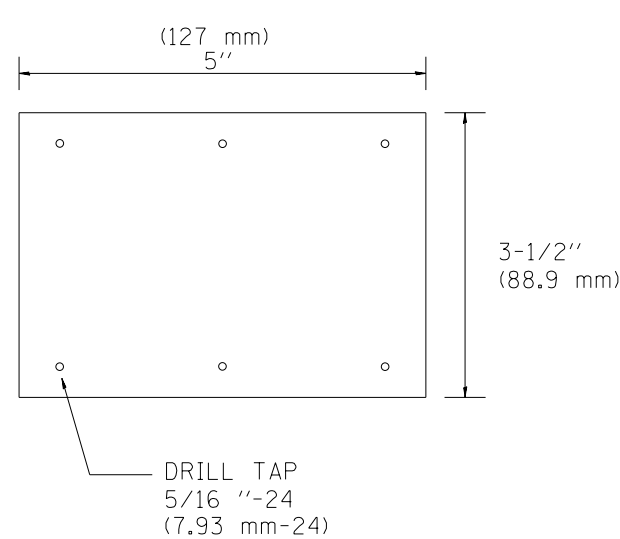
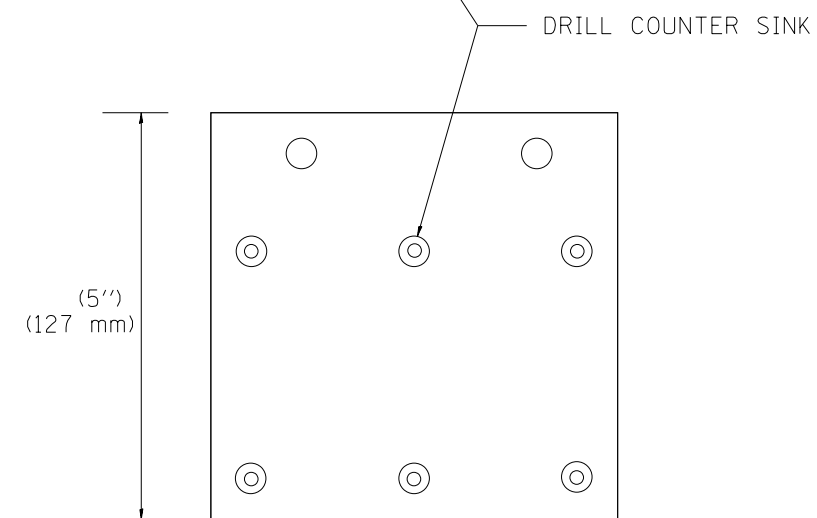
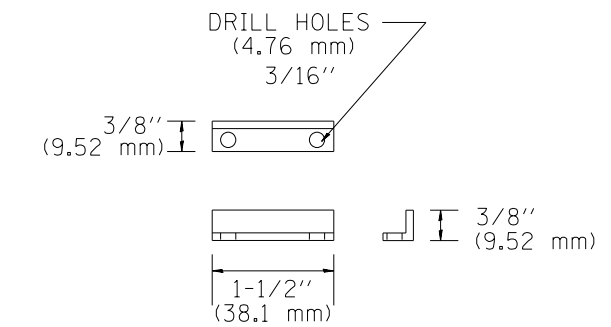
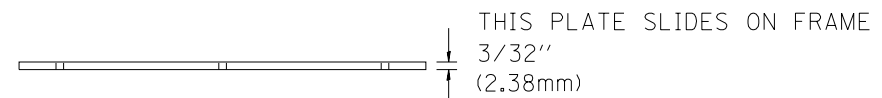
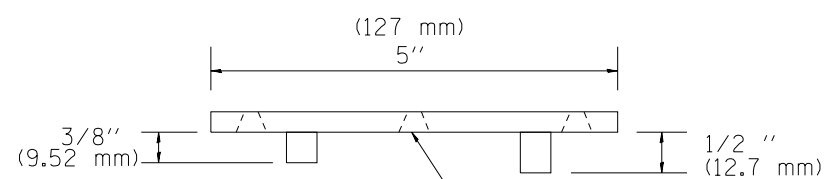
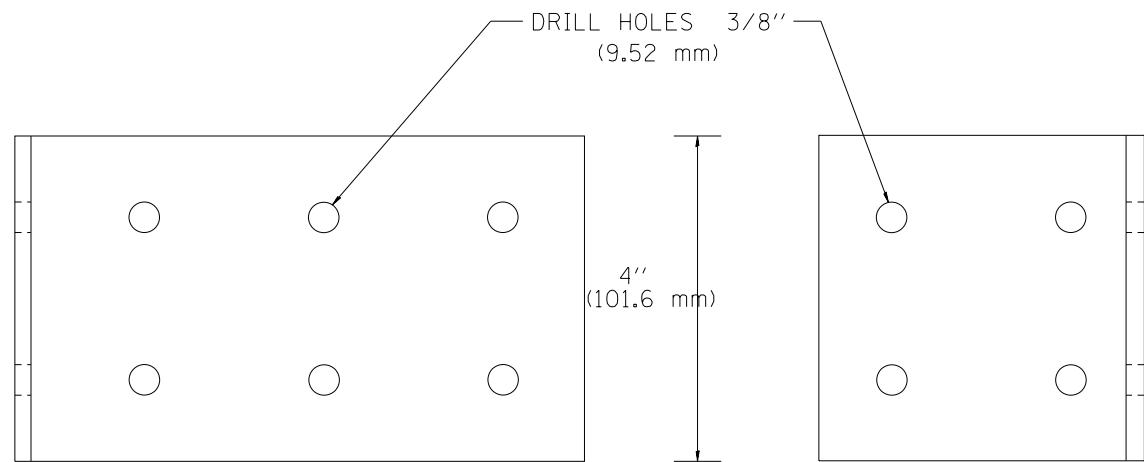
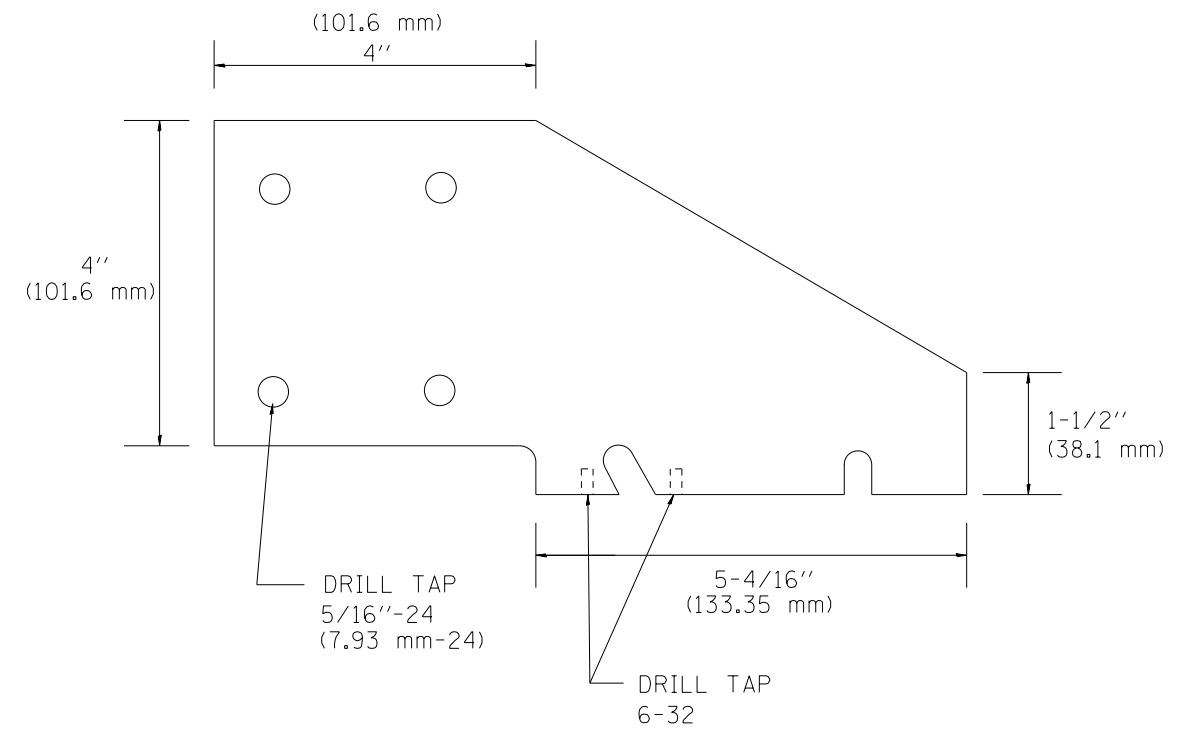
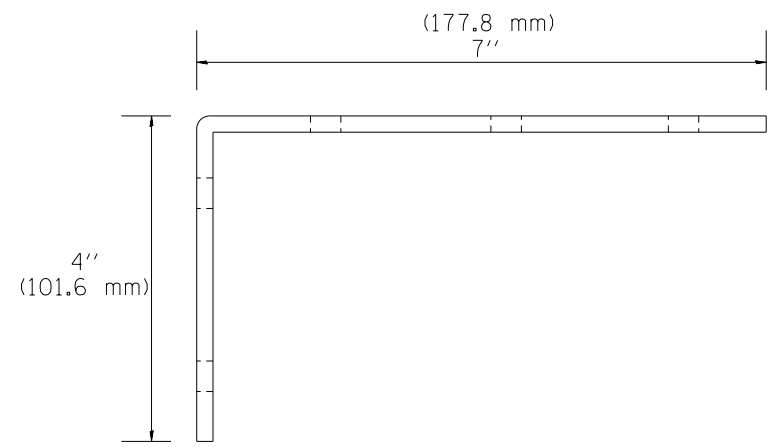
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIELD MOUNTING FRAME
WITH CRADLE ASSEMBLY
(#TY-ITSC-400#6)

SCALE: N.T.S. SHEET NO. 32 OF 34 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	342
CONTRACT NO. 60Y38				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

ITS-53



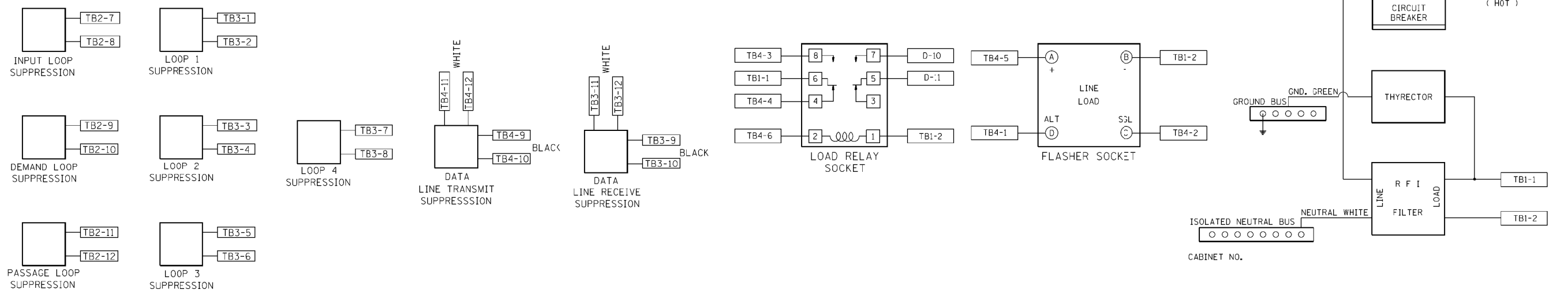
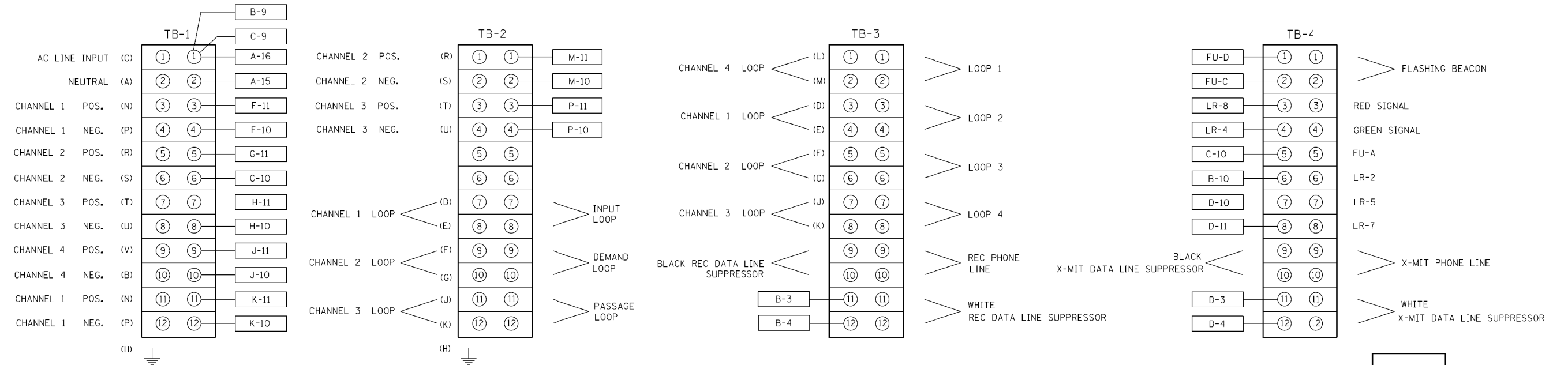
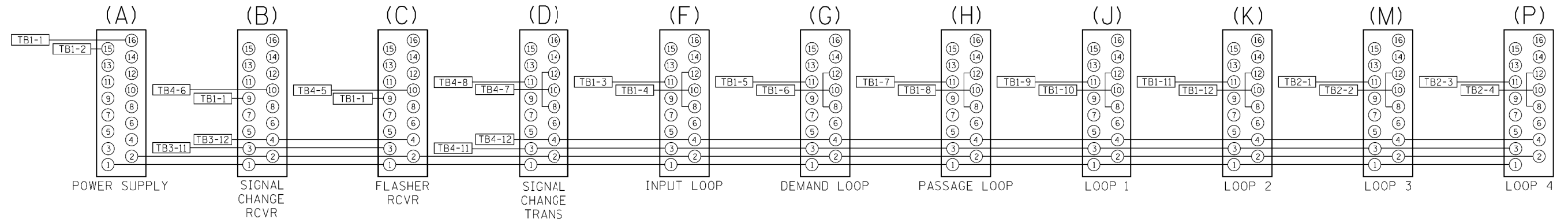
USER NAME = jblakley	DESIGNED - R.L.	REVISED - 02/98
	DRAWN - G.M.	REVISED - 03/99
PLOT SCALE = 1.00' / in.	CHECKED - R.L.	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER

FIELD CRADLE ASSEMBLY		(#TY-1TSC-400#7)	
SCALE: N.T.S.	SHEET NO. 33 OF 34 SHEETS	STA.	TO STA.

ITS-54			
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
90	(1517 & 1415) R-3	COOK	557
			SHEET NO. 343
CONTRACT NO. 60Y38			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

BACK VIEW OF TONE RACK



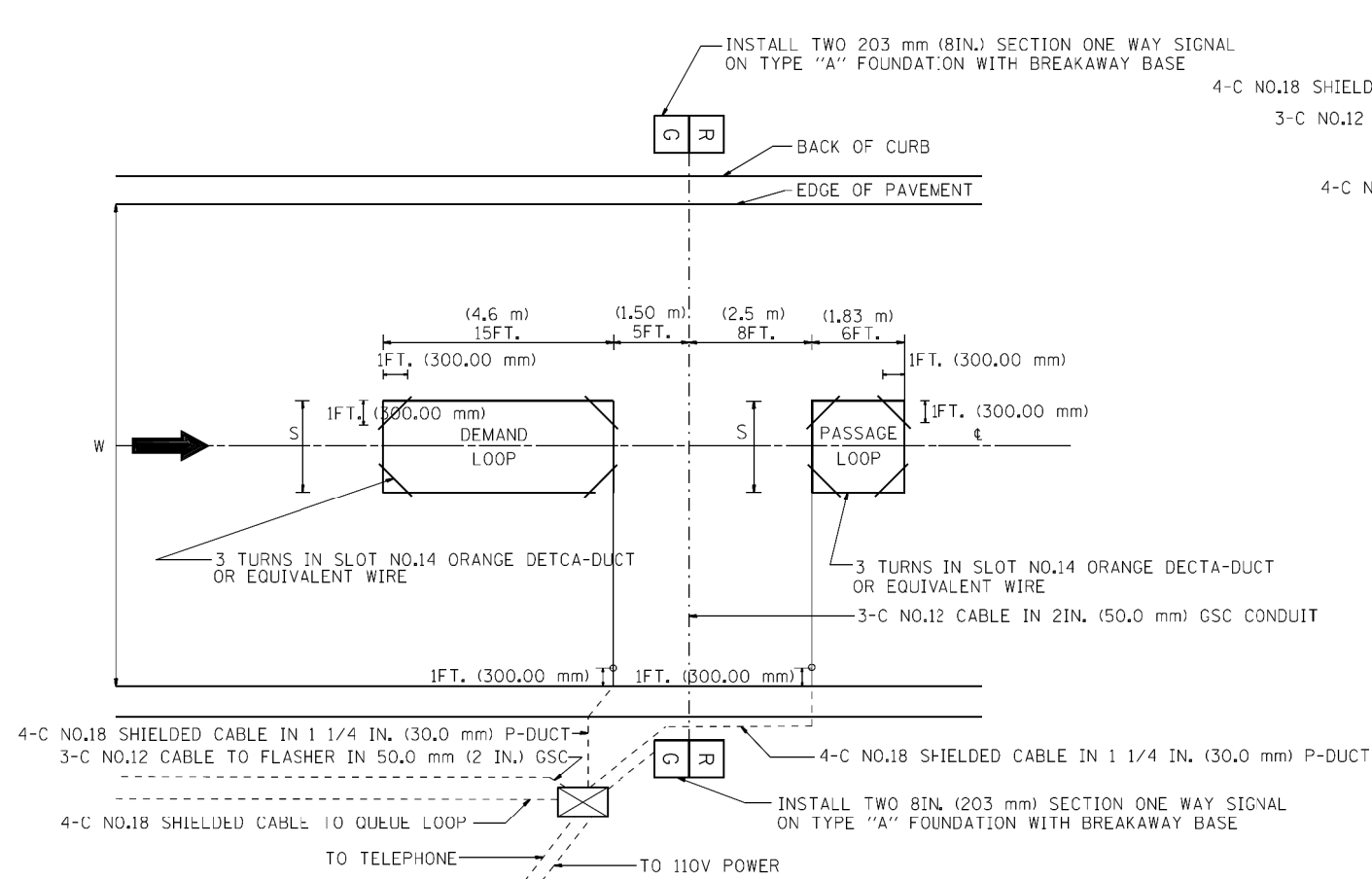
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	DRAWN	REVISED -
PLOT SCALE = 1/80" / in.	CHECKED	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

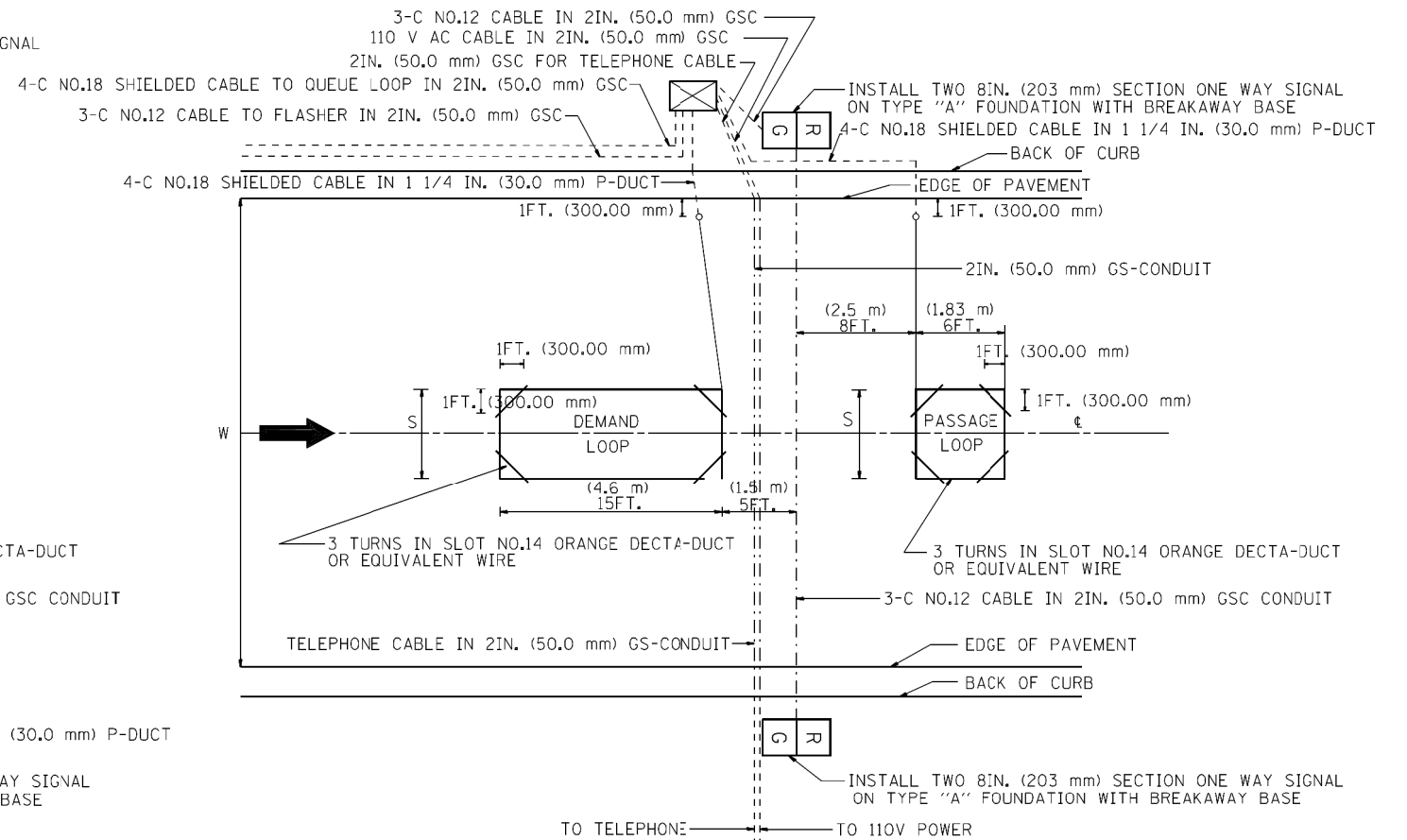
**METERING CABINET
WIRING DIAGRAM**

F.A.I. RTE. 90	SECTION (1517 & 1415) R-3	COUNTY COOK	TOTAL SHEETS 557	SHEET NO. 344
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				

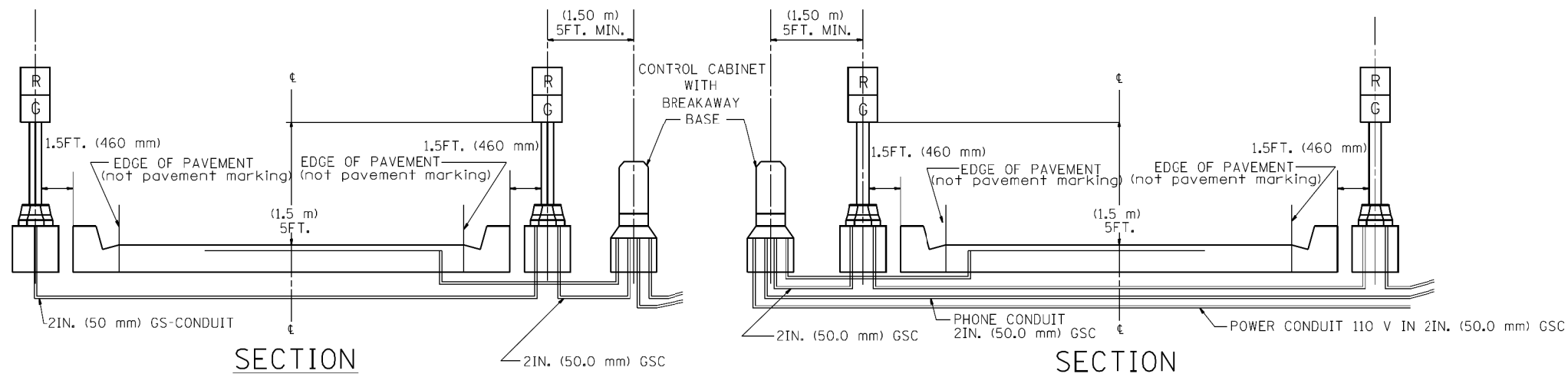
SCALE: N.T.S. SHEET NO. 34 OF 34 SHEETS STA. TO STA.



TYPICAL SIGNAL AND LOOP LAYOUT (TYPE I)



TYPICAL SIGNAL AND LOOP LAYOUT (TYPE II)



- NOTES:
1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150FT. (45 m) OR MORE FROM CABINET.
 2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
 3. LOOPS SHALL NOT BE SPLICED IN SERIES.
 4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

WIDTH (W)	WIDTH (S)
12' (3.7 m)	8' (2.5 m)
13' (4.0 m)	9' (2.8 m)
14' (4.3 m)	10' (3.1 m)
15' (4.6 m)	11' (3.4 m)
16' (4.9 m)	12' (3.7 m)
17' (5.2 m)	13' (4.0 m)
18' (5.5 m)	14' (4.3 m)
19' (5.8 m)	15' (4.6 m)
20' (6.1 m)	18' (4.9 m)
21' (6.4 m)	17' (5.2 m)
22' (6.7 m)	18' (5.5 m)
23' (7.0 m)	19' (5.8 m)
24' (7.3 m)	20' (6.1 m)
25' (7.6 m)	21' (6.4 m)



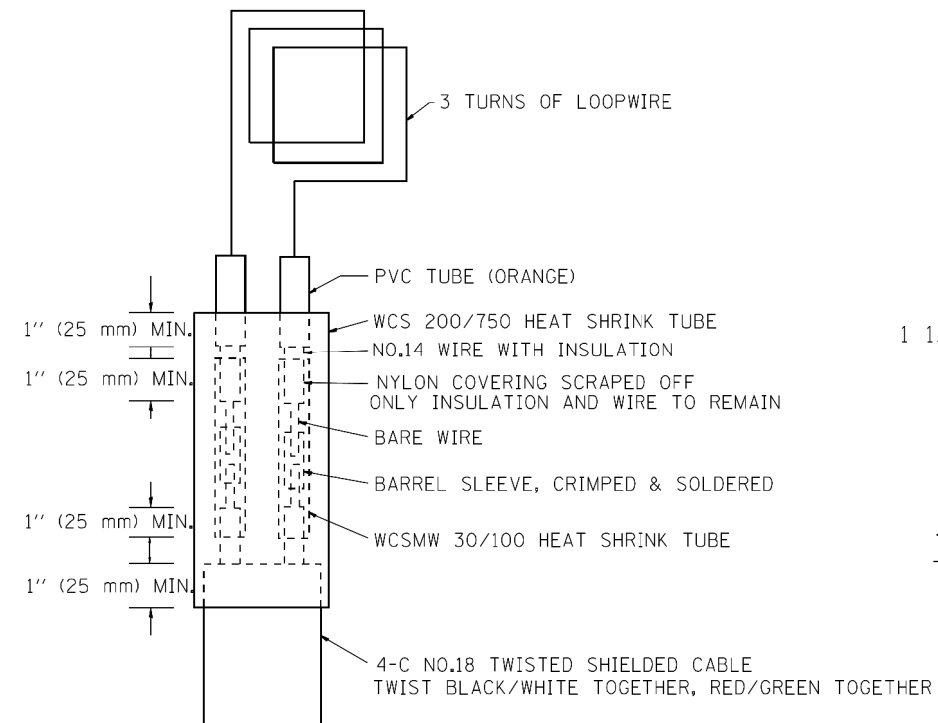
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	DRAWN G.M.	REVISED -
PLOT SCALE = 1/8" = 1' IN.	CHECKED R.L.	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

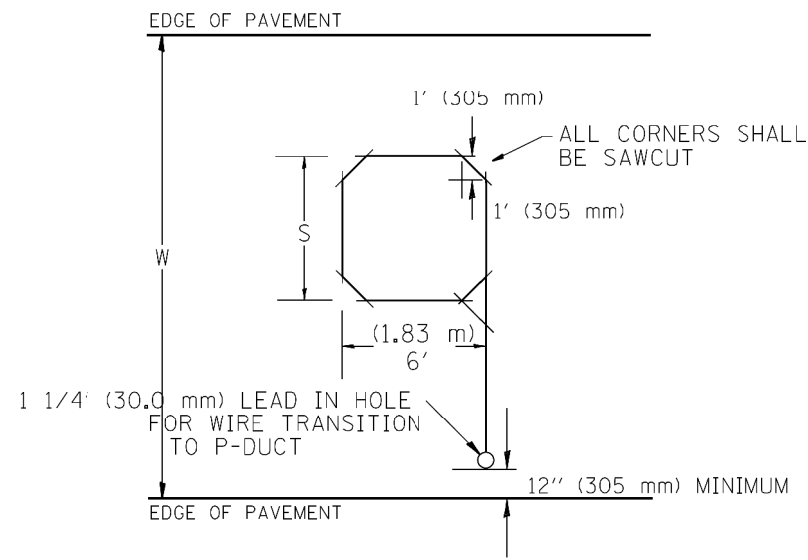
TYPICAL RAMP METERING
INSTALLATION TYPE I AND II
(WITH CURB AND GUTTER)

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

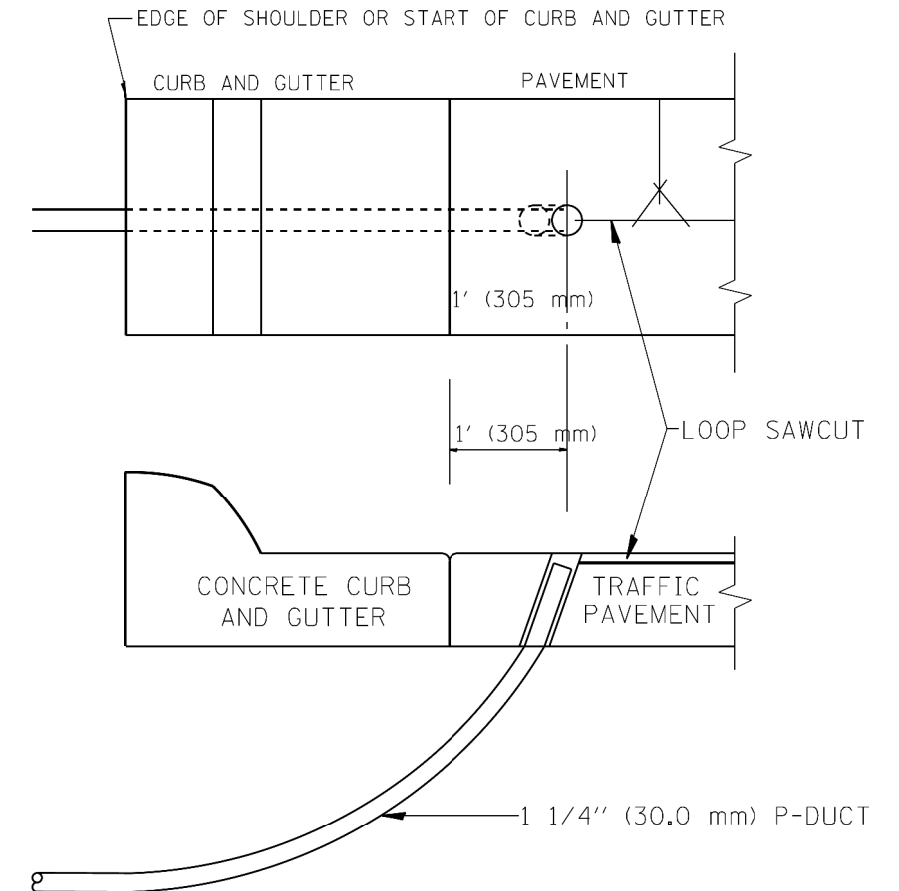
F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	345
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				



LOOP SPLICING REQUIREMENTS



TYPICAL "S" FT. BY 6' (1.83 m) INDUCTION LOOP SAWCUT LAYOUT FOR RAMPS



CURB AND GUTTER LOOP LEAD-IN TRANSITION DETAIL

TABLE 1	
WIDTH (W)	WIDTH (S)
12' (3.7 m)	8' (2.5 m)
13' (4.0 m)	9' (2.8 m)
14' (4.3 m)	10' (3.1 m)
15' (4.6 m)	11' (3.4 m)
16' (4.9 m)	12' (3.7 m)
17' (5.2 m)	13' (4.0 m)
18' (5.5 m)	14' (4.3 m)
19' (5.8 m)	15' (4.6 m)
20' (6.1 m)	18' (4.9 m)
21' (6.4 m)	17' (5.2 m)
22' (6.7 m)	18' (5.5 m)
23' (7.0 m)	19' (5.8 m)
24' (7.3 m)	20' (6.1 m)
25' (7.6 m)	21' (6.4 m)

NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150' (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.



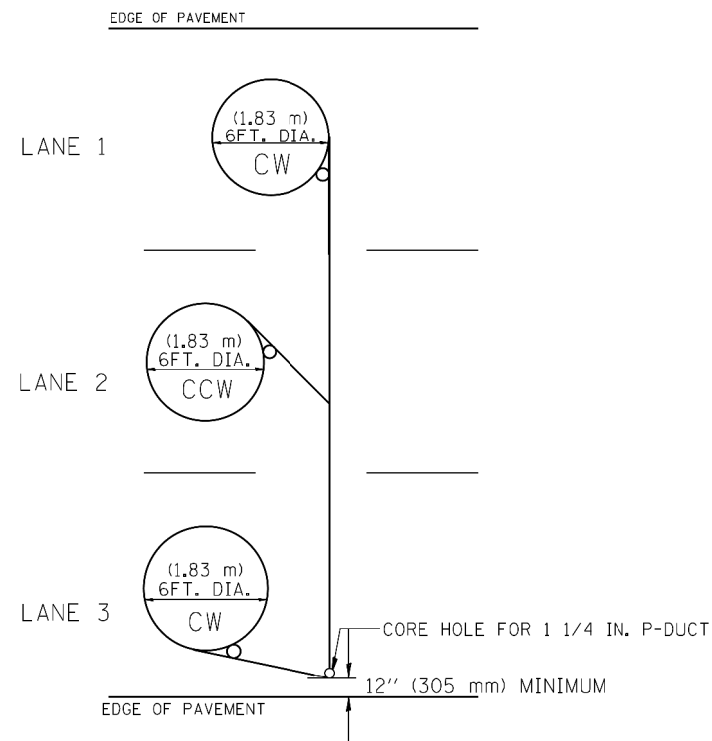
USER NAME = jblakley	DESIGNED R.L.	REVISED -
	DRAWN G.M.	REVISED -
PLOT SCALE = 1/8" = 1'	CHECKED R.L.	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

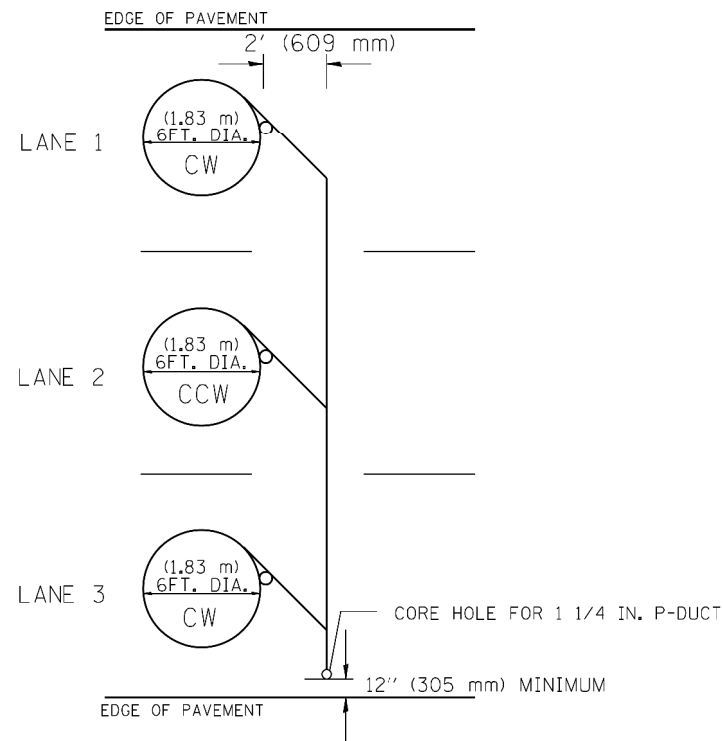
**RECTANGULAR INDUCTION LOOP
TYPICAL
(#TY-1TSC-418#3)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	346
				CONTRACT NO. 60Y38
				ILLINOIS FED. AID PROJECT

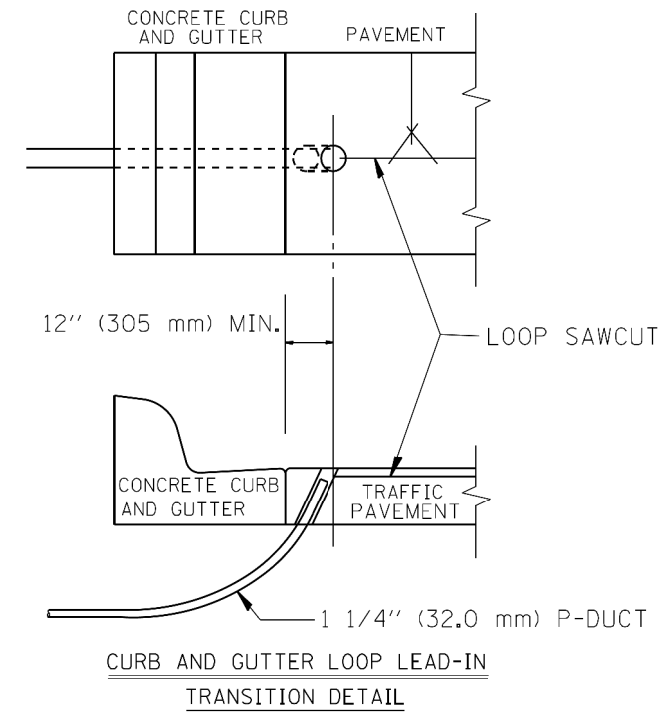
SCALE: N.T.S. SHEET NO. 2 OF 2 SHEETS STA. TO STA.



TYPICAL 6FT. (1.83 m) DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY

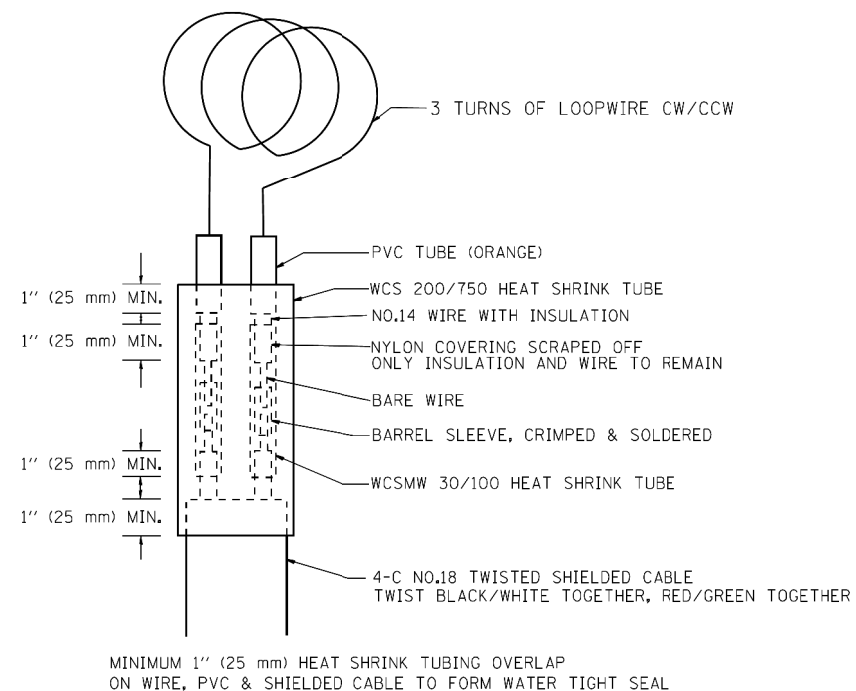


TYPICAL 6FT. (1.83 m) DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY



NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150FT. (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.



LOOP SPLICING REQUIREMENTS



USER NAME = jblakley	DESIGNED R.L.	REVISED -
	DRAWN G.M.	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED R.L.	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

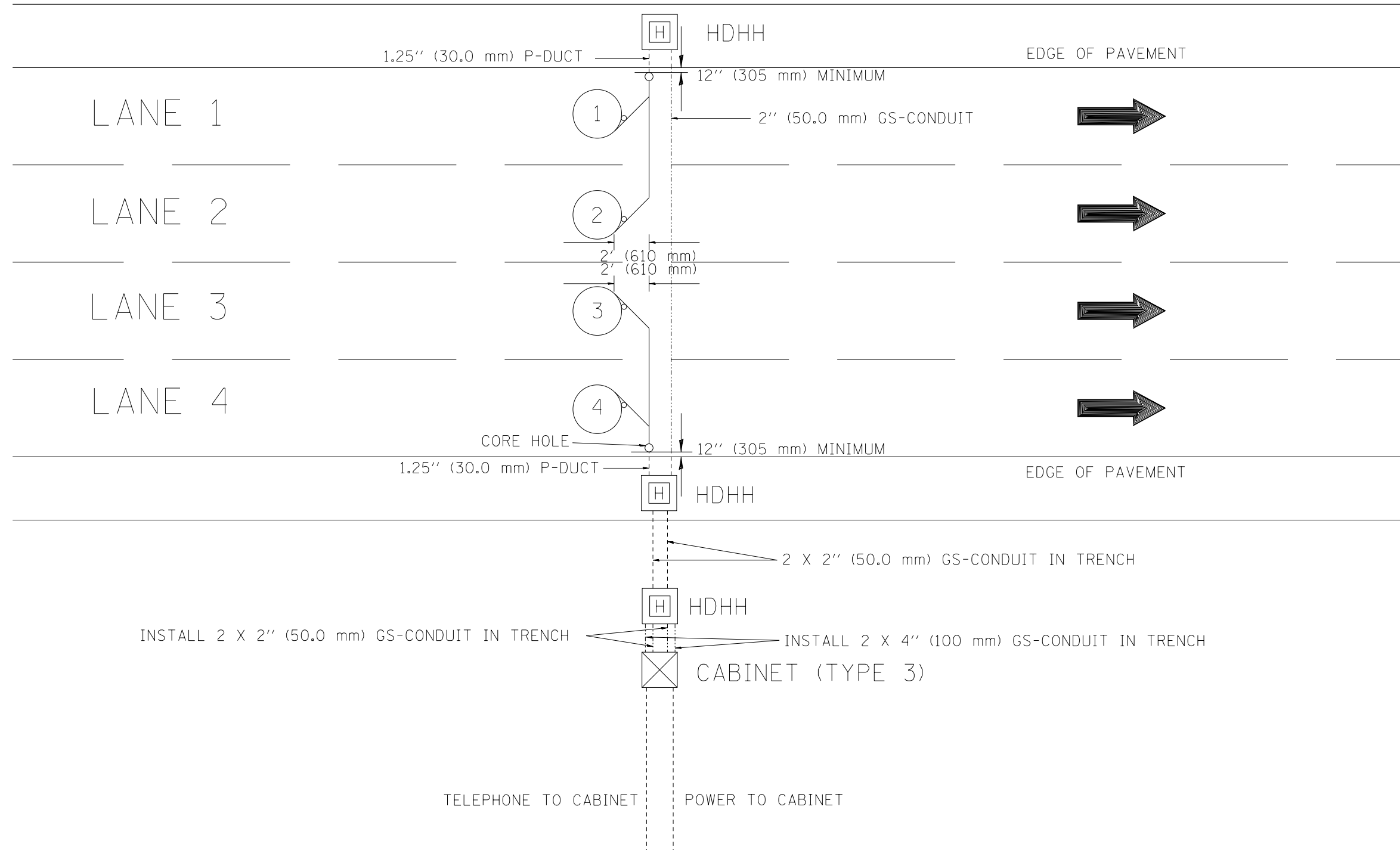
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING ROUND
INDUCTION LOOP TYPICALS
(#TY-TSC-418#2)

SCALE: N.T.S. SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	347
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				

NOTE: ALL MAIN LINE LOOPS ARE ROUND 6' DIA. (1.83 m)



NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150' (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
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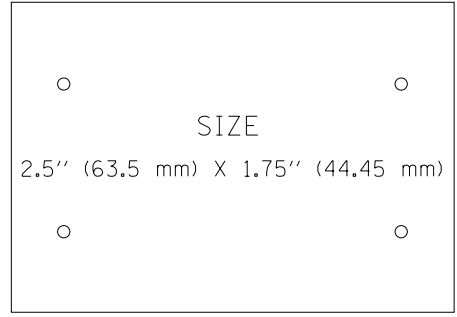
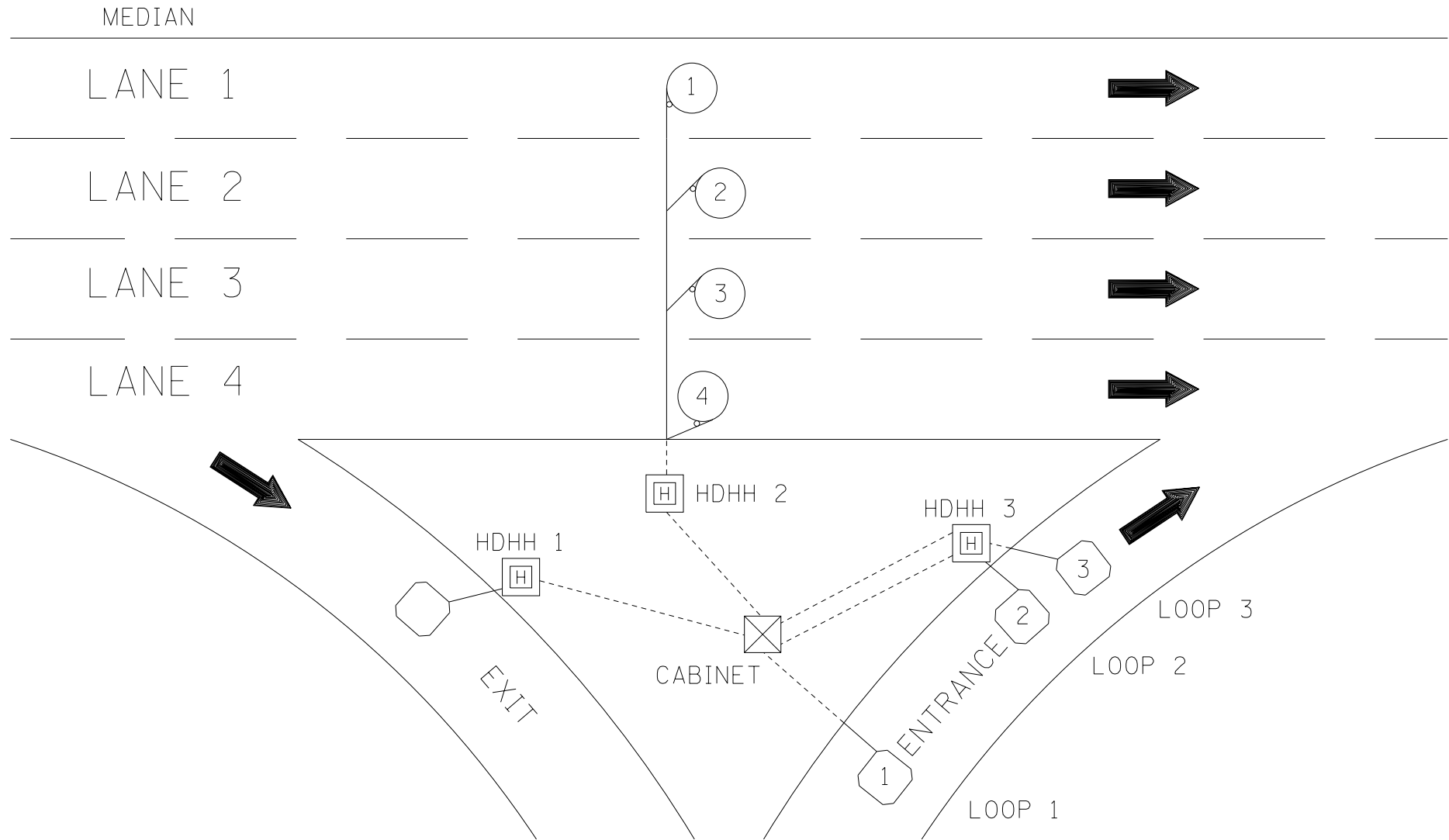
USER NAME = jblakley	DESIGNED - R.L.	REVISED - 02/98
	DRAWN - G.M.	REVISED - 03/99
PLOT SCALE = 1.00' / in.	CHECKED - R.L.	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER

NEW CONSTRUCTION		ROUND INDUCTION LOOP		TYPICAL INSTALLATION	
SCALE: N.T.S.	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	348
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60Y38	

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SUGGESTED TAG
PANDUIT
#MP250W175-C
OR EQUIVALENT

LOOP ANALYZER					
LOCATION _____			DATE _____		
LOOP LOCATION LANE DIRECTION	LOOP WIRE MARKED AND CODED	LOOP SIZE	FREQ. INDUCTANCE	INSULATION	LOOP RESISTANCE

HDHH 1 EXAMPLE

IB-EB EXIT
CCW IN/
TO CABINET # _____

HDHH 2 EXAMPLE

IB (OB) LANE # ___
CCW /OUT
TO CABINET # _____

HDHH 3 EXAMPLE

IB-EB ENT.
LOOP #2
CW IN/

NOTE:
EACH LOOP WIRE SHALL BE TAGGED
AS "IN" OR "OUT" AND "CW" OR "CCW".
SHIELDED CABLE WILL BE TAGGED IN
EACH HANDHOLE AND CABINET TO
MATCH THE CABLE LOG.



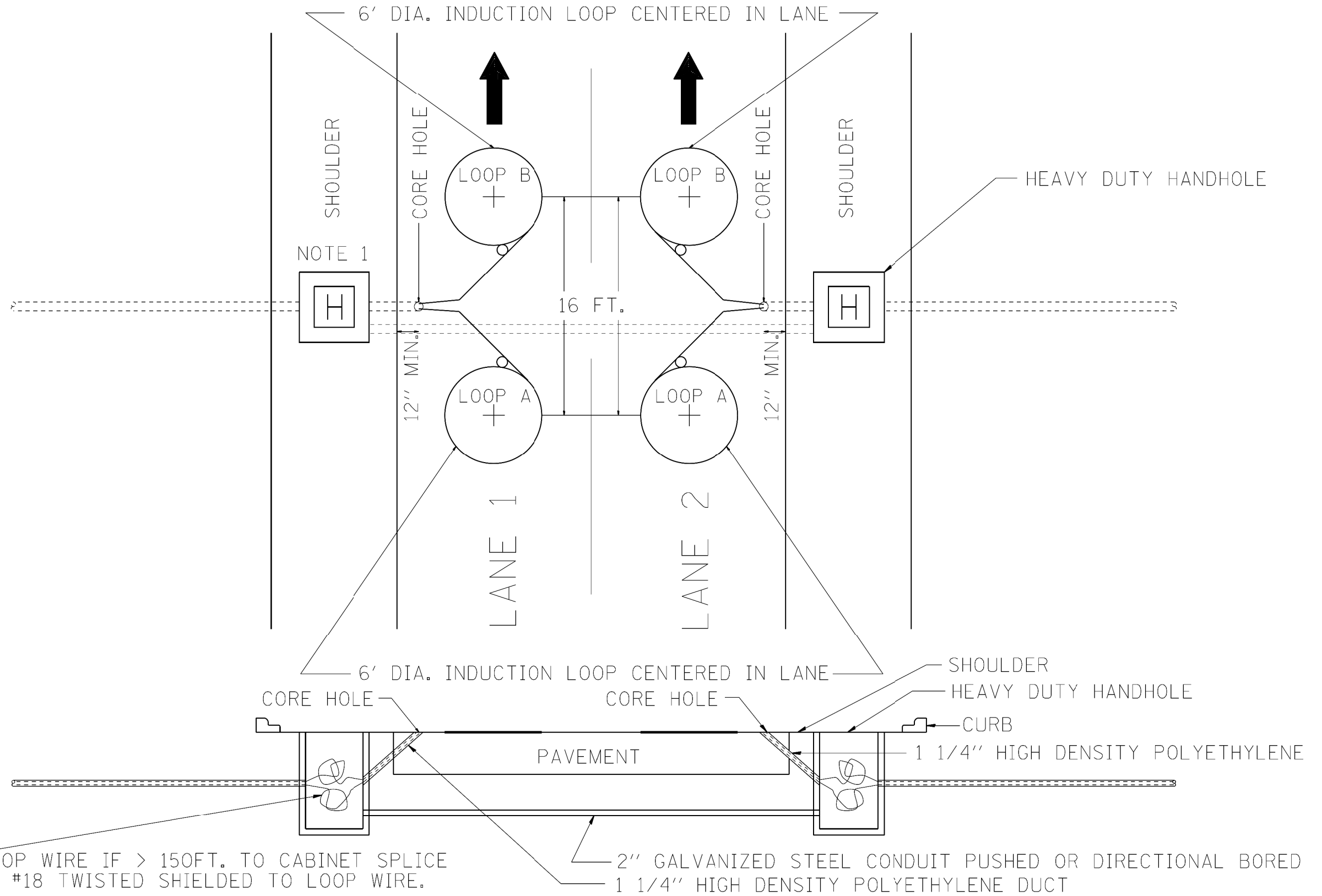
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	DRAWN - G.M.	REVISED - 03/99
PLOT SCALE = 1.00' / in.	CHECKED - R.L.	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

LOOP STATUS REPORT

SCALE: N.T.S. SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	349
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO.			60Y38	



NOTE 1: IF HDHH NOT POSSIBLE THEN LANE 1 LOOPS USE SAME CORE HOLE AS LANE 2 LOOPS. IN THE OTHER DIRECTION, LANE 2 LOOPS WILL USE SAME CORE HOLE AS LANE 1 LOOPS.

LOOP WIRE IF > 150FT. TO CABINET SPLICE
4C #18 TWISTED SHIELDED TO LOOP WIRE.

2" GALVANIZED STEEL CONDUIT PUSHED OR DIRECTIONAL BORED
1 1/4" HIGH DENSITY POLYETHYLENE DUCT



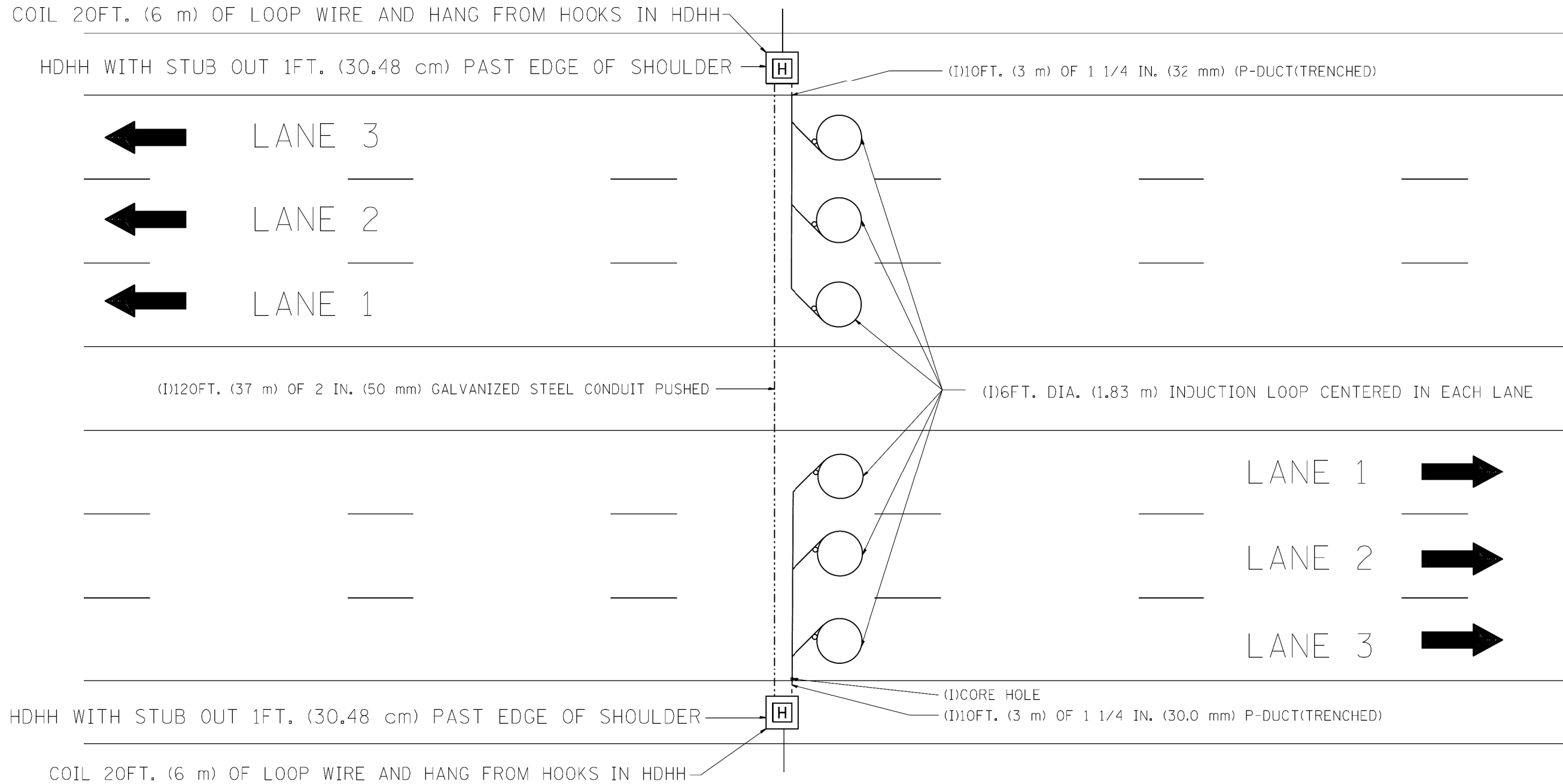
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	DRAWN G.M.	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED R.L.	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SURVEILLANCE
2 LANE SPEED, COUNT, CLASSIFICATION STATION

SCALE: N.T.S. SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	350
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				



NOTE:

THE COST OF LOOP WIRE IN HDHH IS INCIDENTAL TO THE INDUCTION LOOP.
IT SHALL NOT BE MEASURE FOR PAYMENT.

INSTALL AT STATIONS.



USER NAME = jblakley	DESIGNED R.L.	REVISED -
	DRAWN G.M.	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED R.L.	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

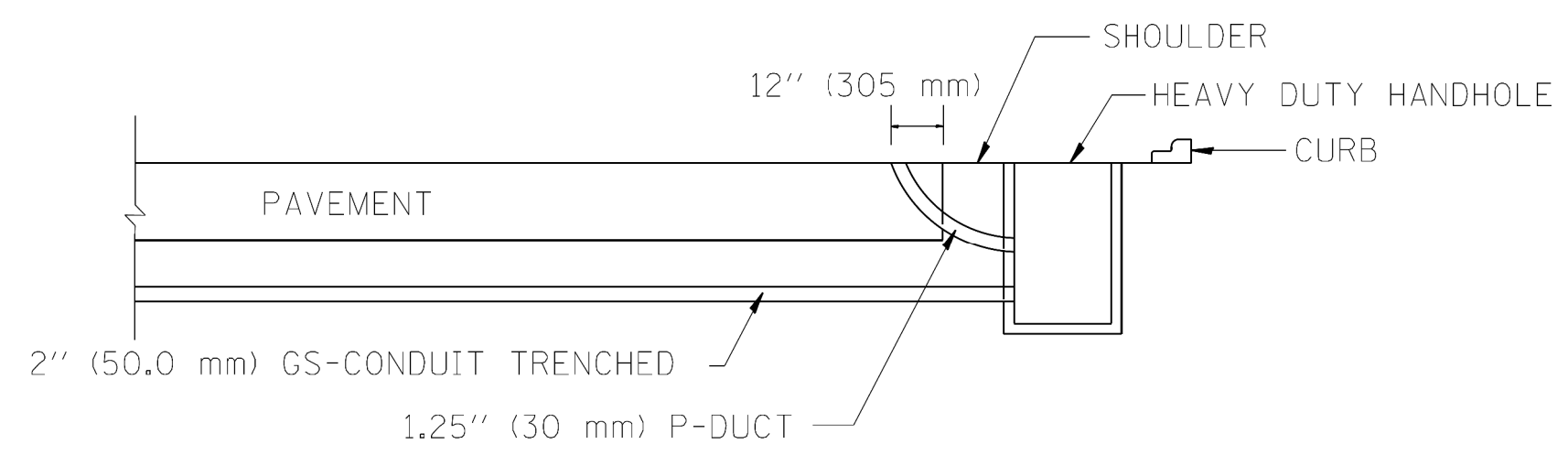
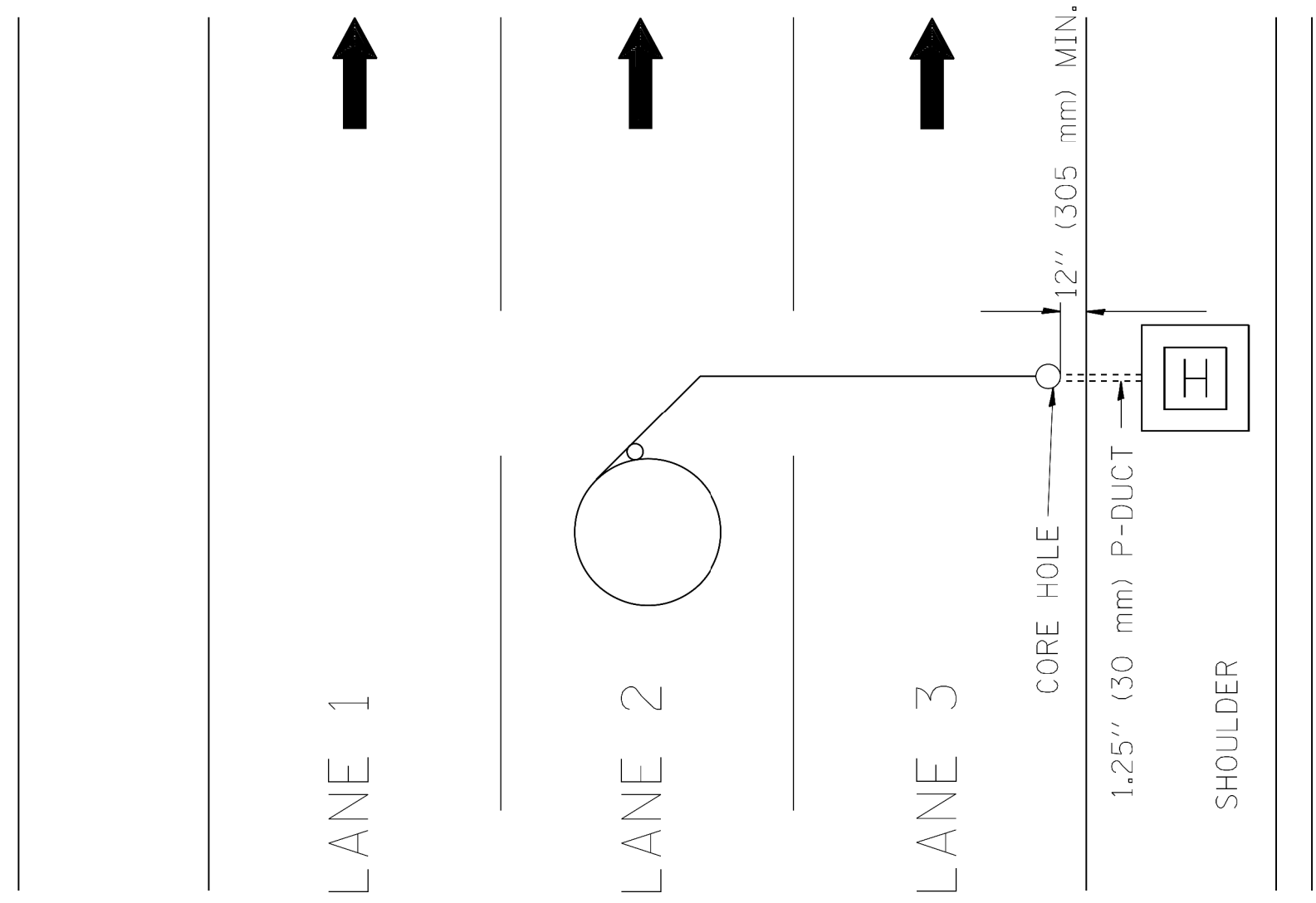
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

3 LANE COUNT STATION

SCALE: N.T.S. SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	351
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y38	

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ITS-63



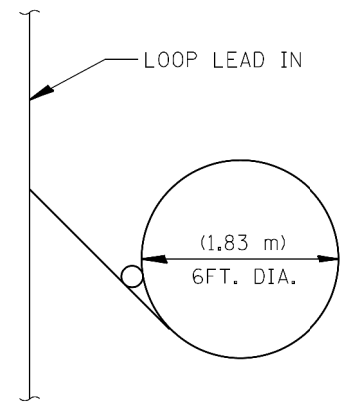
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	DRAWN G.M.	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED R.L.	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

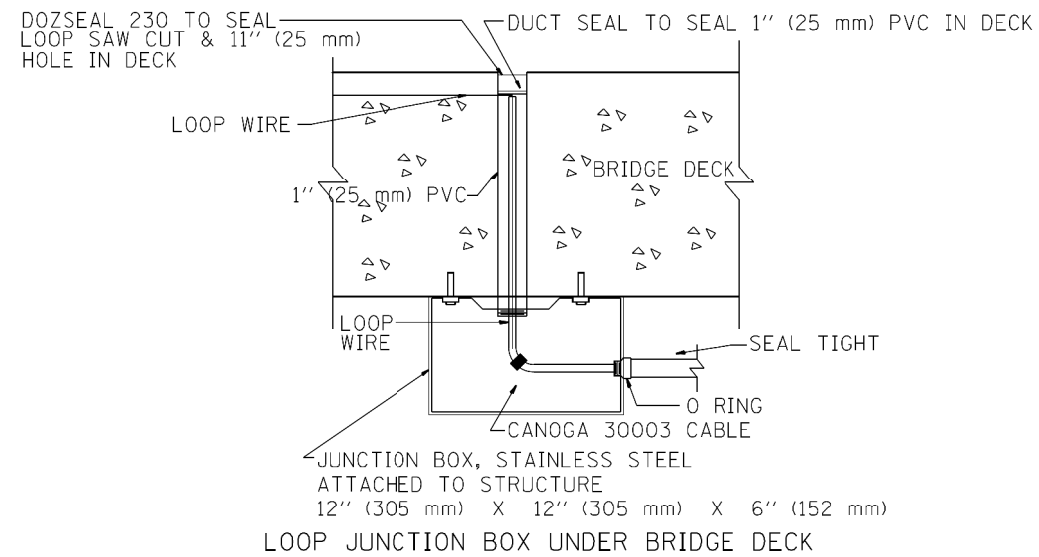
DIVE HOLE DUCT SYSTEM

SCALE: N.T.S. SHEET NO. 2 OF 2 SHEETS STA. TO STA.

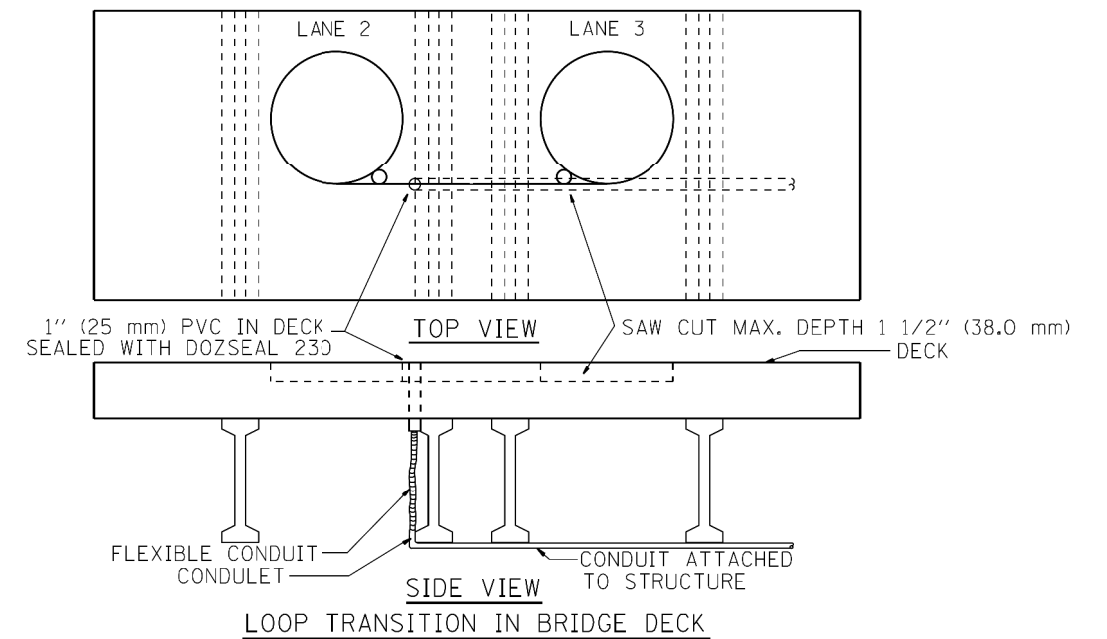
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90	(1517 & 1415) R-3	COOK	557	351A
				CONTRACT NO. 60Y38
ILLINOIS FED. AID PROJECT				



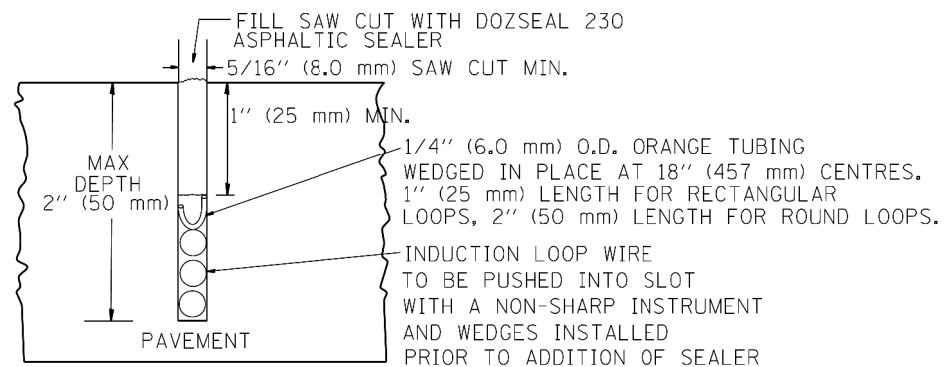
TYPICAL LOOP SAWCUT LAYOUT



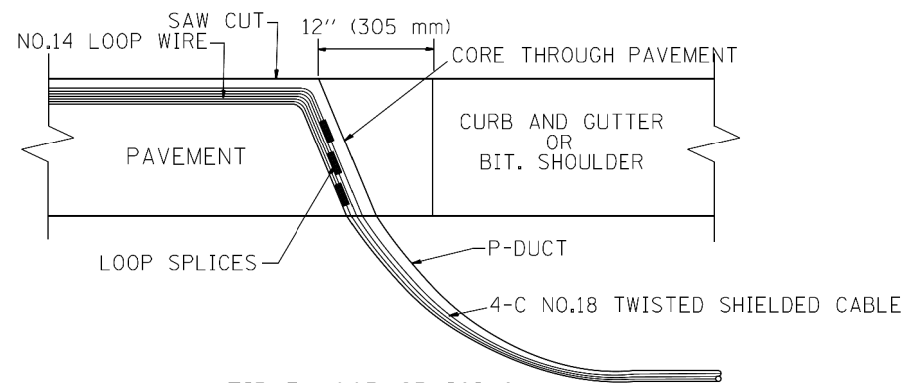
LOOP JUNCTION BOX UNDER BRIDGE DECK



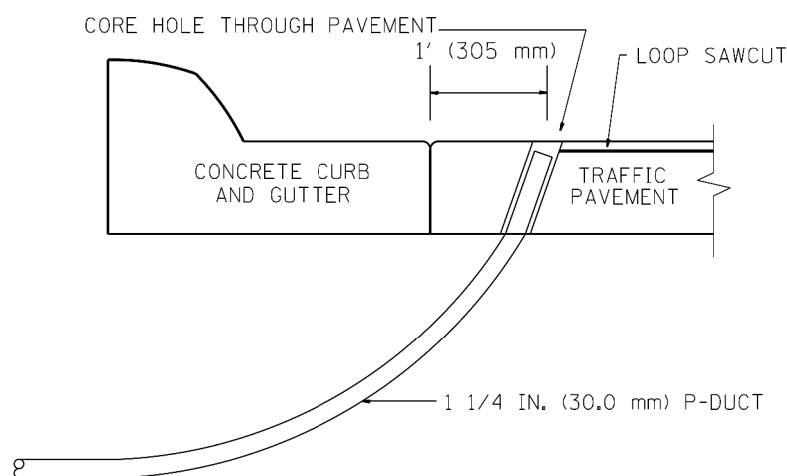
LOOP TRANSITION IN BRIDGE DECK



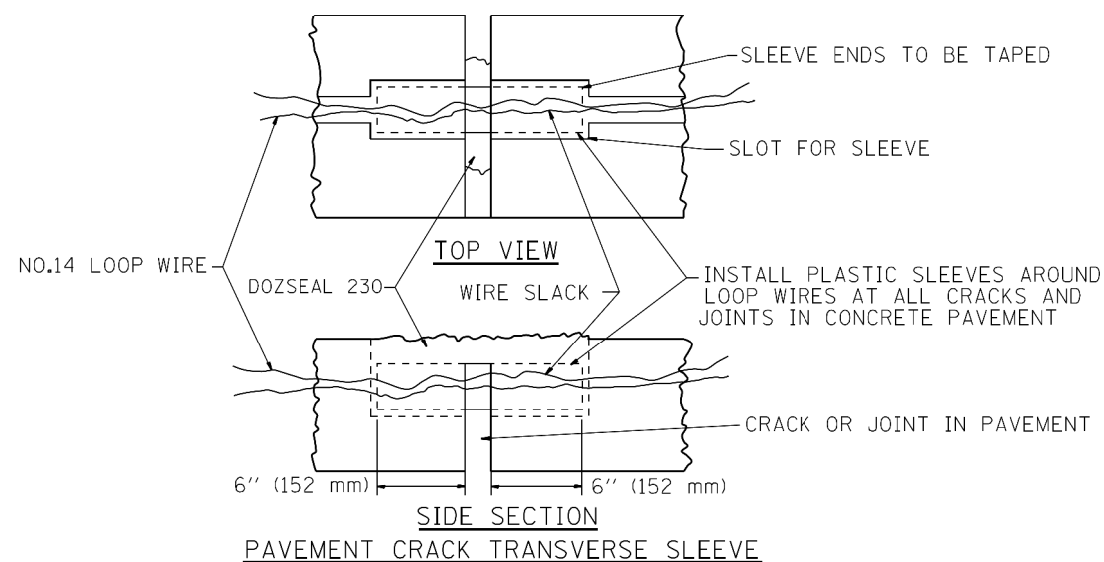
LOOP CROSS SECTION IN PAVEMENT



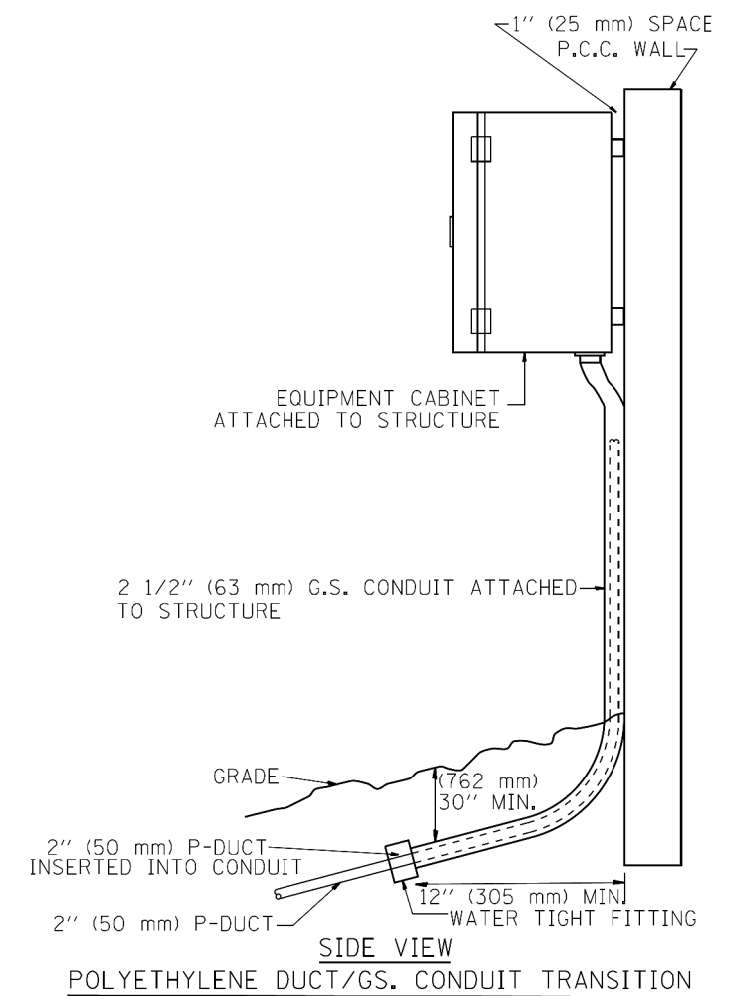
MULTIPLE LOOP SPLICING



SIDE SECTION LOOP LEAD-IN TRANSITION DETAIL



PAVEMENT CRACK TRANSVERSE SLEEVE



POLYETHYLENE DUCT/GS. CONDUIT TRANSITION



USER NAME = jblakley	DESIGNED R.L.	REVISED -
	DRAWN G.M.	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED R.L.	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

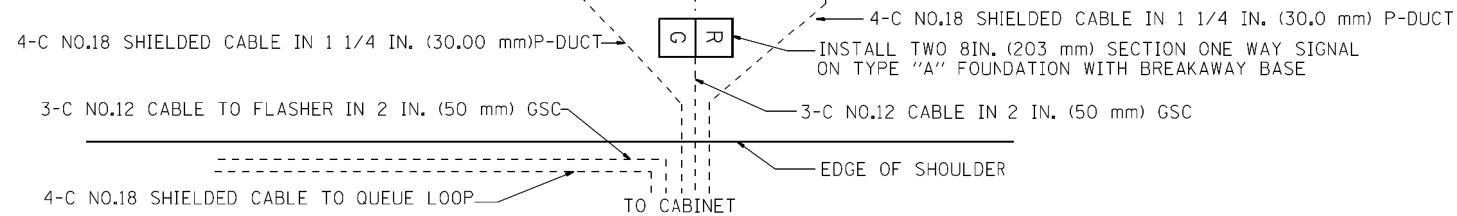
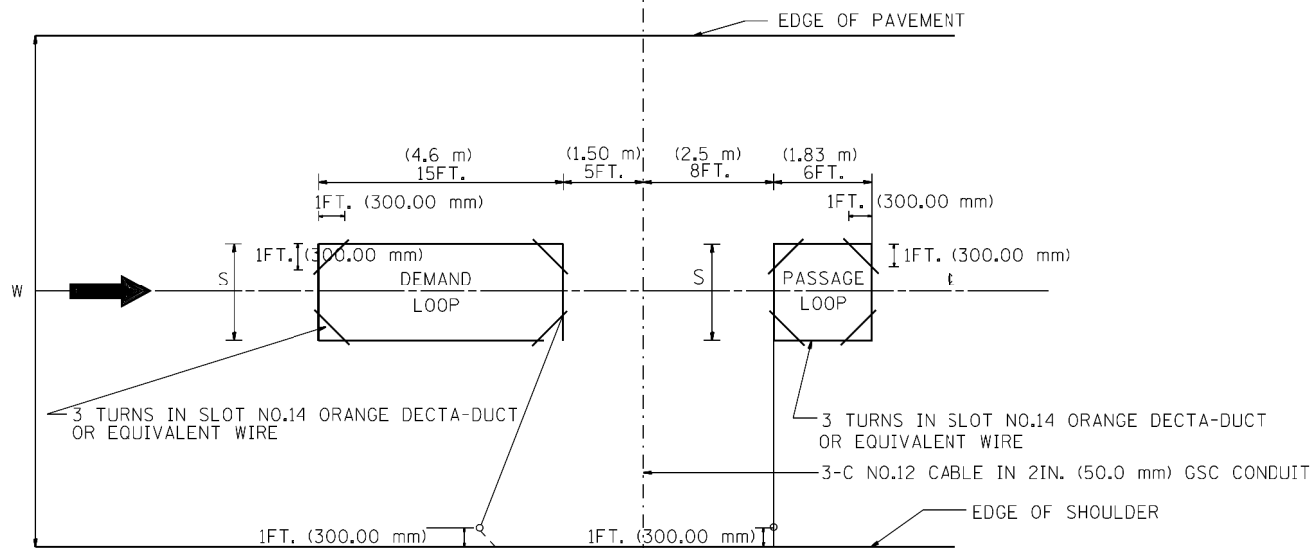
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOOP, CONDUIT & DUCT
INSTALLATION DETAILS

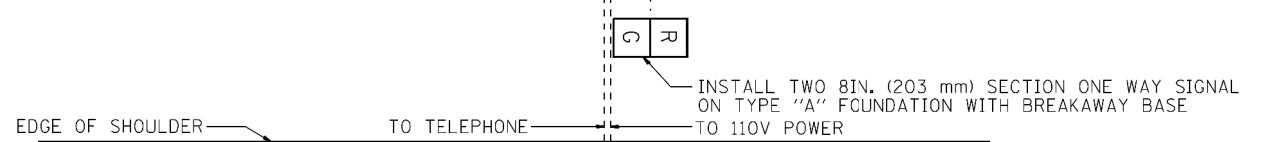
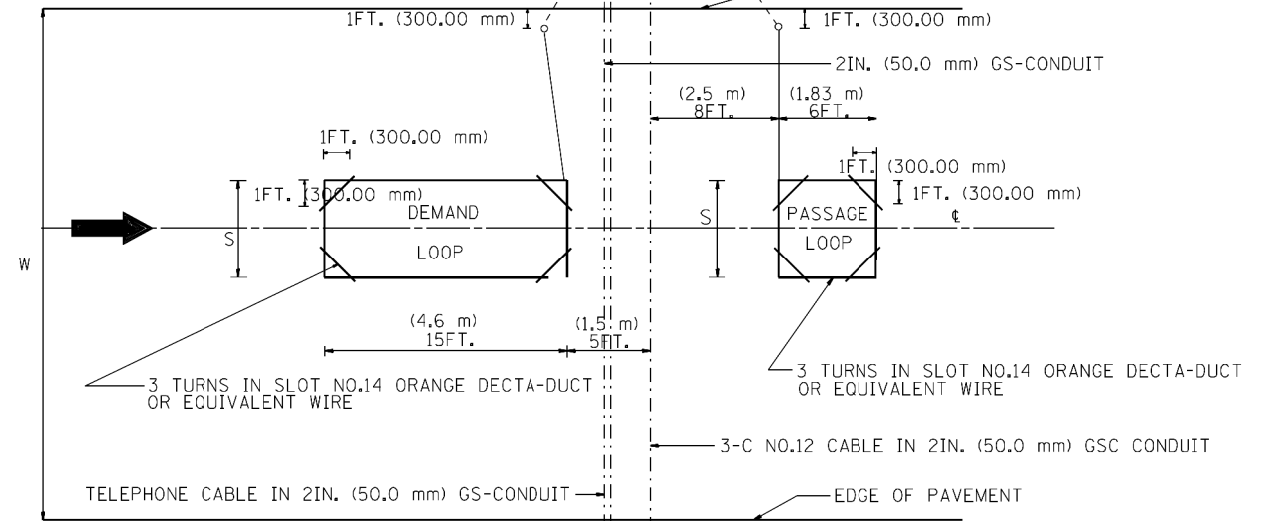
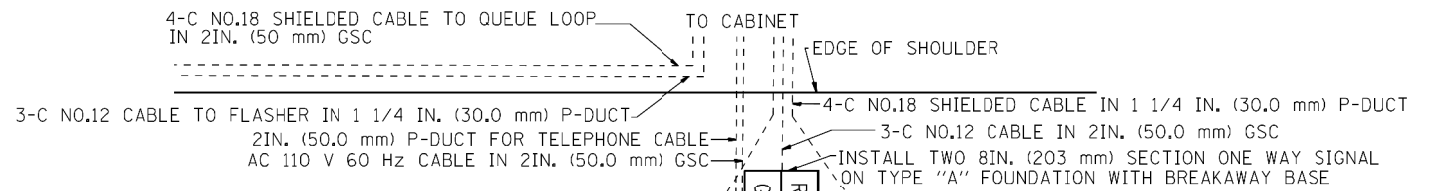
SCALE: N.T.S. SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	352
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				

INSTALL TWO 8IN. (203 mm) SECTION ONE WAY SIGNAL ON TYPE "A" FOUNDATION WITH BREAKAWAY BASE



TYPICAL SIGNAL AND LOOP LAYOUT (TYPE I)



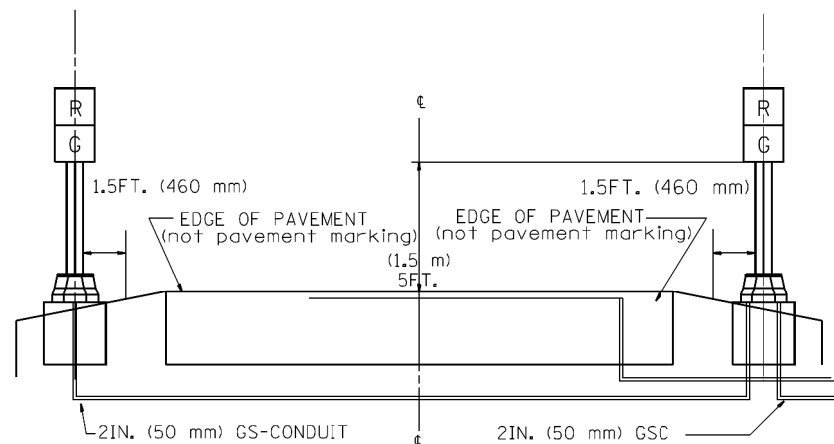
TYPICAL SIGNAL AND LOOP LAYOUT (TYPE II)

NOTE: ALL SIGNALS & FOUNDATIONS SHALL BE FIELD LOCATED FOR ACTUAL SITE AND TRAFFIC CONDITIONS.

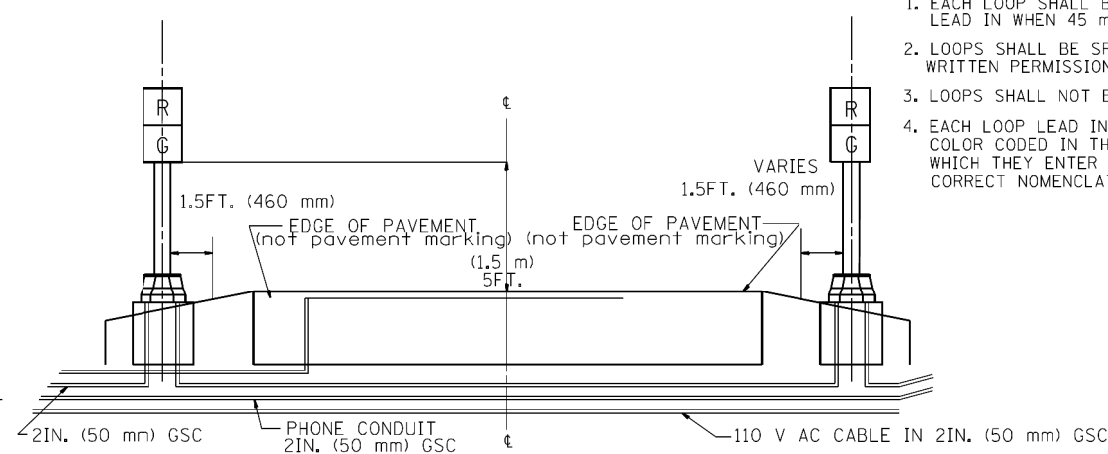
NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 45 m (150FT.) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

WIDTH (W)	WIDTH (S)
12' (3.7 m)	8' (2.5 m)
13' (4.0 m)	9' (2.8 m)
14' (4.3 m)	10' (3.1 m)
15' (4.6 m)	11' (3.4 m)
16' (4.9 m)	12' (3.7 m)
17' (5.2 m)	13' (4.0 m)
18' (5.5 m)	14' (4.3 m)
19' (5.8 m)	15' (4.6 m)
20' (6.1 m)	18' (4.9 m)
21' (6.4 m)	17' (5.2 m)
22' (6.7 m)	18' (5.5 m)
23' (7.0 m)	19' (5.8 m)
24' (7.3 m)	20' (6.1 m)
25' (7.6 m)	21' (6.4 m)



SECTION



SECTION



USER NAME = jblakley	DESIGNED R.L.	REVISED -
	DRAWN G.M.	REVISED -
PLOT SCALE = 1/8" = 1'	CHECKED R.L.	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

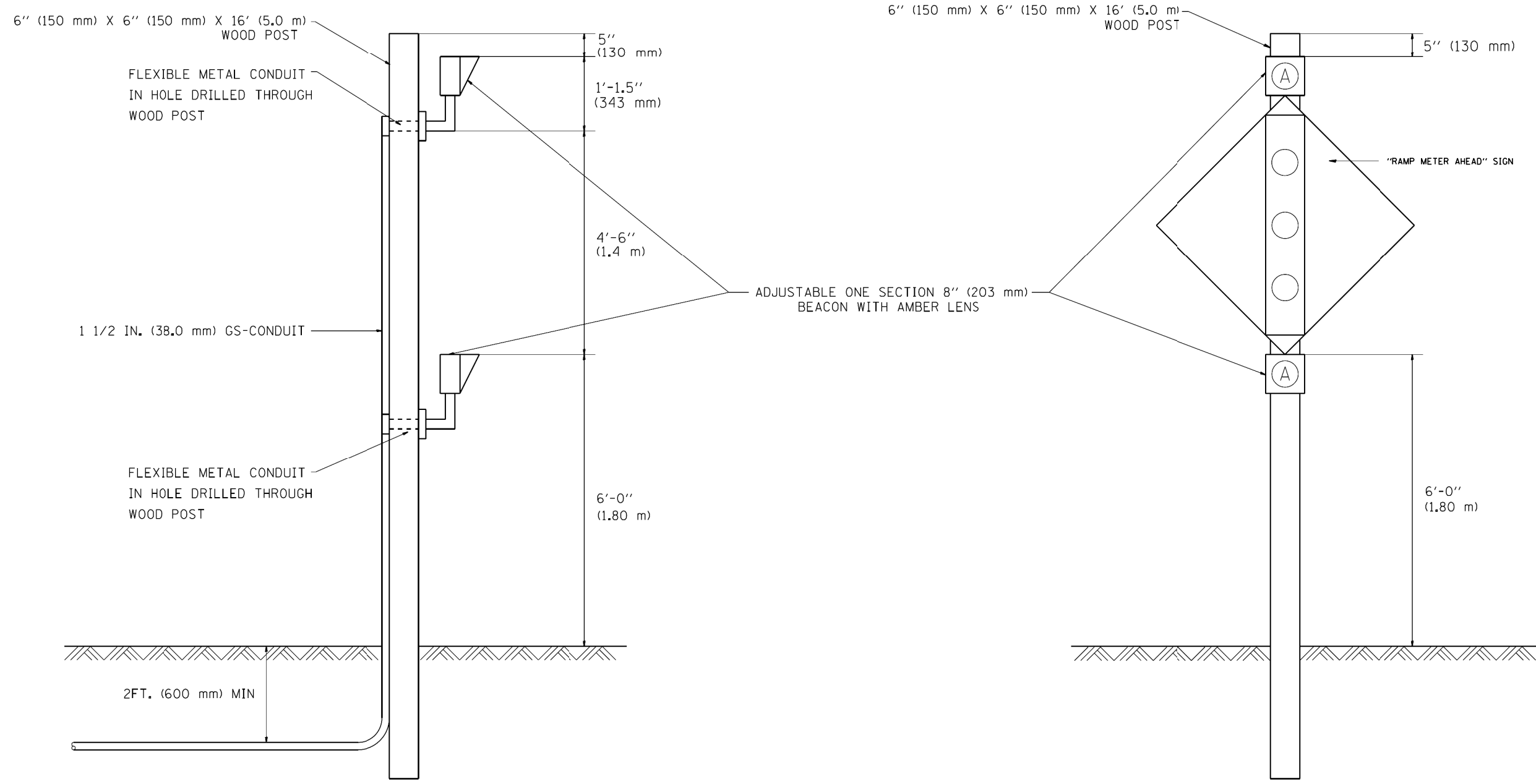
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL RAMP METERING INSTALLATION
TYPE I & II
(FOR RAMPS WITHOUT CURB & GUTTERS)

SCALE: N.T.S. SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	353
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				

NOT TO SCALE



- NOTE:
- 1) SIGN WILL BE PLACED ON THE FRONT FACE OF WOOD POST BY CONTRACTOR. 4'-6" (1.4 m) DIMENSION MUST BE KEPT FREE OF CONDUIT AND CONNECTIONS TO PREVENT INTERFERENCE WITH SIGN PLACEMENT.
 - 2) WOOD POST SHALL NOT BE SET IN CONCRETE (REFER TO SPECIAL PROVISIONS).
 - 3) A CLEAR LAMP ESPECIALLY DESIGNED FOR TRAFFIC SIGNAL SERVICE SHALL BE RATED AT 67 WATTS, 120 VOLTS.

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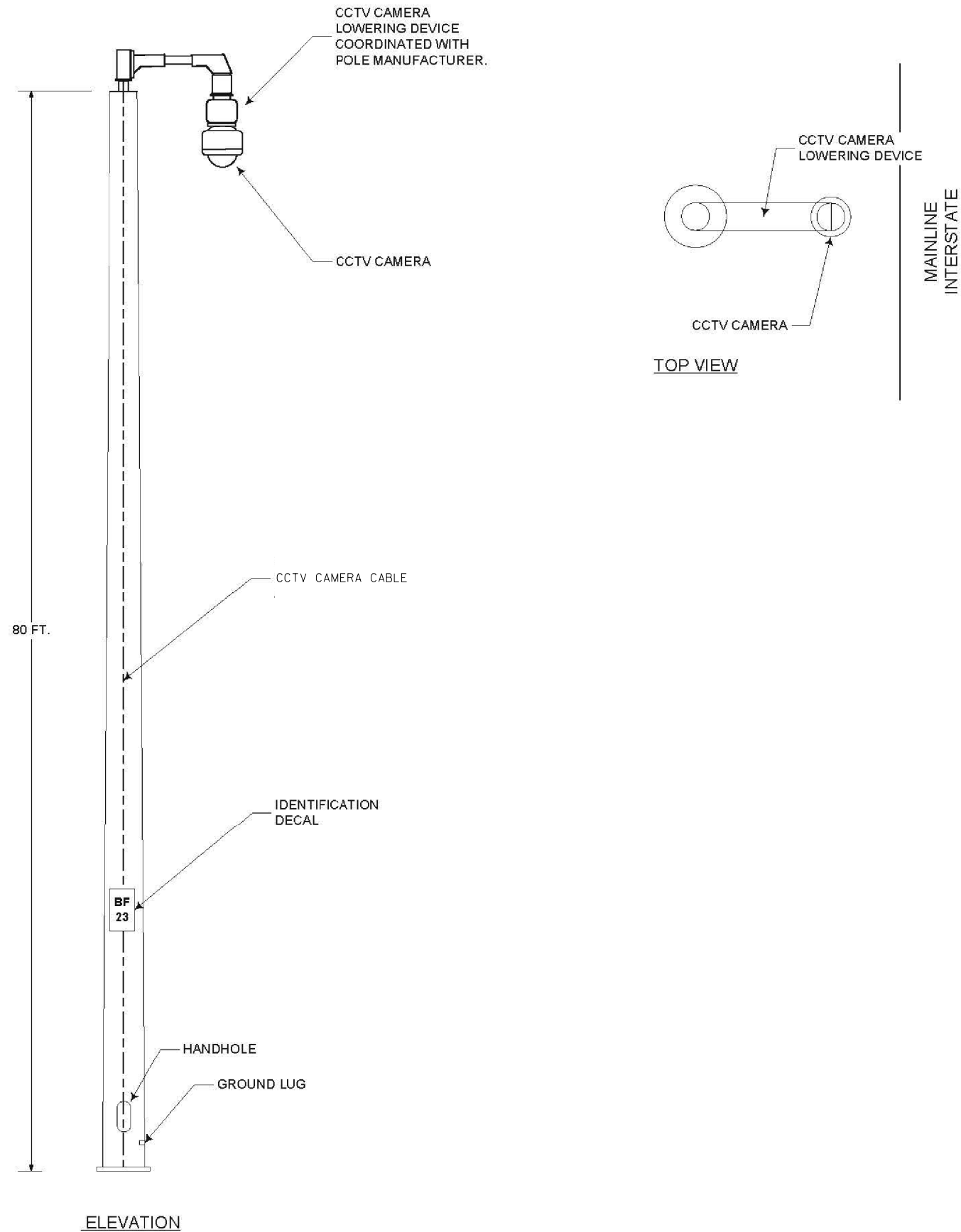
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	DRAWN G.M.	REVISED -
PLOT SCALE = 1/8" = 1' / in.	CHECKED R.L.	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FLASHER DETAIL SHEET

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	354
				CONTRACT NO. 60Y38
ILLINOIS FED. AID PROJECT				

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.



GENERAL NOTES

- LOADING AND ALLOWABLE STRESS CRITERIA: 1994 AASHTO
- MAXIMUM 1-INCH POLE TOP DEFLECTION WITH 30 MPH WIND VELOCITY, NO GUST.
- LOCATIONS OF THE CCTV CAMERA INSTALLATIONS ARE APPROXIMATE. THE CONTRACTOR MAY ADJUST THE LOCATIONS OF THE INSTALLATIONS TO FACILITATE INSTALLATION WITH WRITTEN APPROVAL OF THE RESIDENT ENGINEER AND THE ELECTRICAL DESIGN SECTION. ALL STANDARD NON-FRANGIBLE SETBACK REQUIREMENTS AS WELL AS CLEAR ZONE REQUIREMENTS SHALL BE MAINTAINED.
- THE POLE SHALL BE A MAXIMUM OF THREE SECTIONS FOR FIELD ASSEMBLY. THE POLE SHAFTS SHALL BE A ROUND CROSS SECTION AND MEET THE REQUIREMENTS OF ASTM A595 GRADE A WITH A MINIMUM YIELD STRENGTH OF 55,000 PSI. THE BOTTOM SECTION SHALL HAVE A MINIMUM .3125 WALL THICKNESS AND A MINIMUM DIAMETER OF 23". THE POLE SHALL HAVE A PROVISION FOR VENTING AT THE TOP AND BOTTOM TO PREVENT CONDENSATION BUILDUP ON THE INTERIOR OF THE POLE SHAFT.
- CABLE SUPPORTS SHALL BE PROVIDED OF ALL CABLES INSIDE OF POLE SO THAT NO CABLE LOADING IS EXCEEDED. CALCULATIONS SHALL BE SUBMITTED FOR THE CABLES BEING FURNISHED.
- ALL EQUIPMENT SHALL BE GROUNDED.
- DOCUMENTATION SHALL BE SUBMITTED THAT THE POLE IS FULLY COORDINATED WITH THE CAMERA LOWERING DEVICE.
- ALL CABLES, INCLUDING LOWERING DEVICE CABLES, SHALL BE WITHIN THE POLE SHAFT. EXTERNAL CABLING WILL NOT BE PERMITTED.
- UNLESS OTHERWISE INDICATED, OR AS DIRECTED BY THE ENGINEER, THE CAMERA LOWERING DEVICE SHALL BE ORIENTED PERPENDICULAR TO THE MAINLINE INTERSTATE FOR THE LEAST OBSTRUCTED VIEW OF THE INTERSTATE ROADWAY.

MATERIAL REQUIREMENTS

COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
POLE SHAFT	A572 GR. 65	65
BASE PLATE	A36	36
POLE TOP PLATE	A36	36
ANCHOR BOLTS	F1554 GR. 55	55
GALVANIZING, STRUCTURE	A123	N/A
GALVANIZING, HARDWARE	A153	N/A



USER NAME = jblakley	DESIGNED R.L.	REVISED -
	DRAWN G.M.	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED R.L.	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

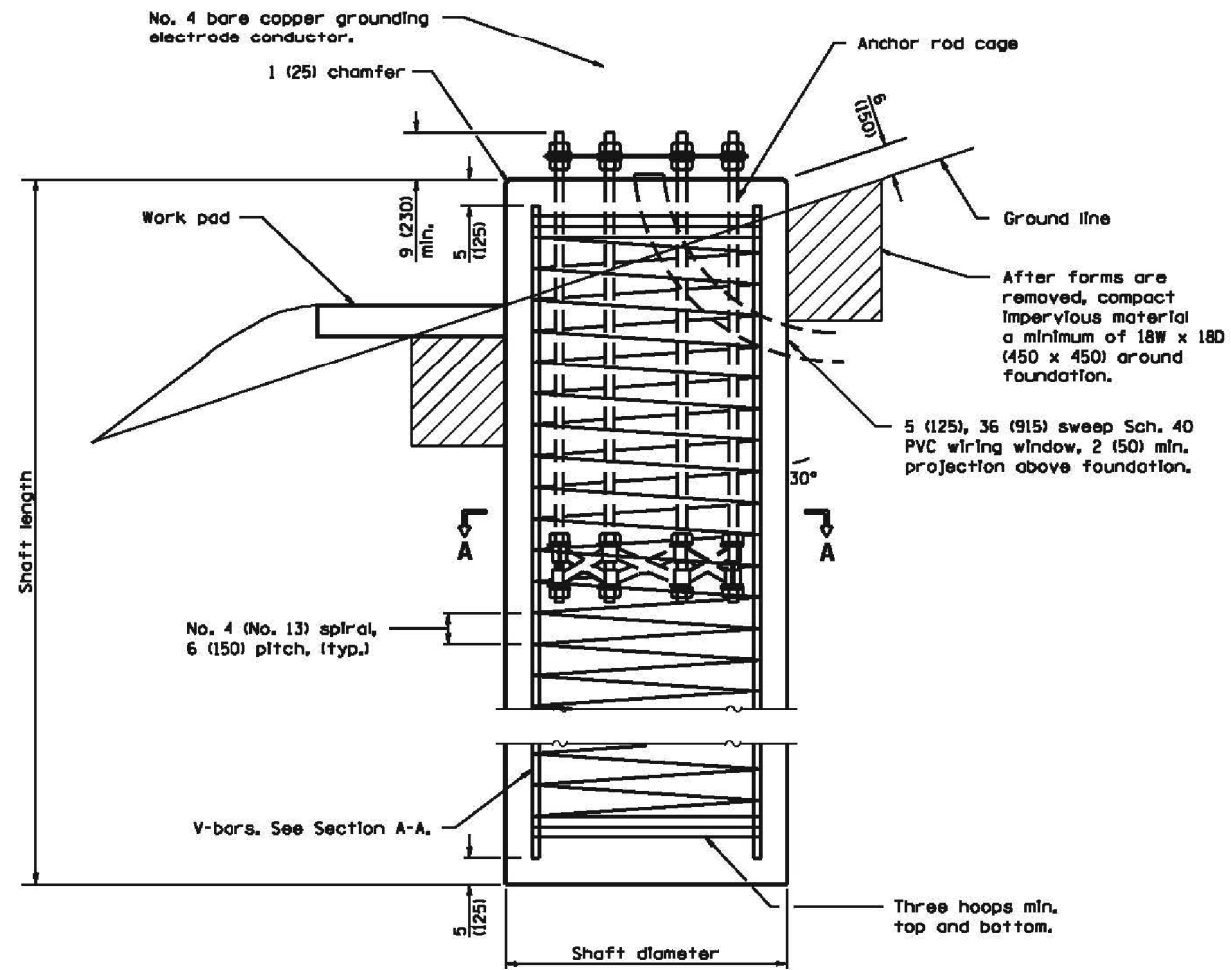
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CCTV CAMERA STRUCTURES
80 FT M.H., GALVANIZED STEEL**

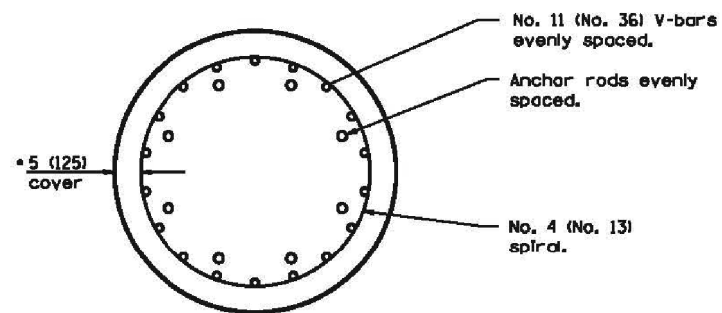
SCALE: N.T.S. SHEET NO. 2 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	355
			CONTRACT NO. 60Y38	
ILLINOIS FED. AID PROJECT				

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**FOUNDATION
ELEVATION**



SECTION A-A

• See Rod and Reinforcement Table.

SHAFT LENGTH TABLE			
SOIL CONSISTENCY	AVERAGE STRENGTH		HEIGHT
	Qu In tsf (Qu In kPa)		80' (24 m)
Cohesive	SOFT	< 0.5 (< 50)	20'-6" (6.2 m)
	MEDIUM	0.5 to 1 (50 to 100)	17'-0" (5.1 m)
	STIFF	1 to 2 (100 to 200)	14'-6" (4.4 m)
	VERY STIFF	2 to 4 (200 to 400)	13'-0" (3.8 m)
	HARD	> 4 (> 400)	11'-6" (3.5 m)
		N In BLOWS/FT. (N In BLOWS/0.3m)	
Granular	VERY LOOSE	< 5 (< 5)	16'-6" (5.0 m)
	LOOSE	5 to 10 (5 to 10)	15'-0" (4.6 m)
	MEDIUM	10 to 25 (10 to 25)	14'-6" (4.4 m)
	DENSE	25 to 50 (25 to 50)	14'-0" (4.1 m)
	VERY DENSE	> 50 (> 50)	13'-0" (3.9 m)



USER NAME = jblakley	DESIGNED R.L.	REVISED -
	DRAWN G.M.	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED R.L.	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

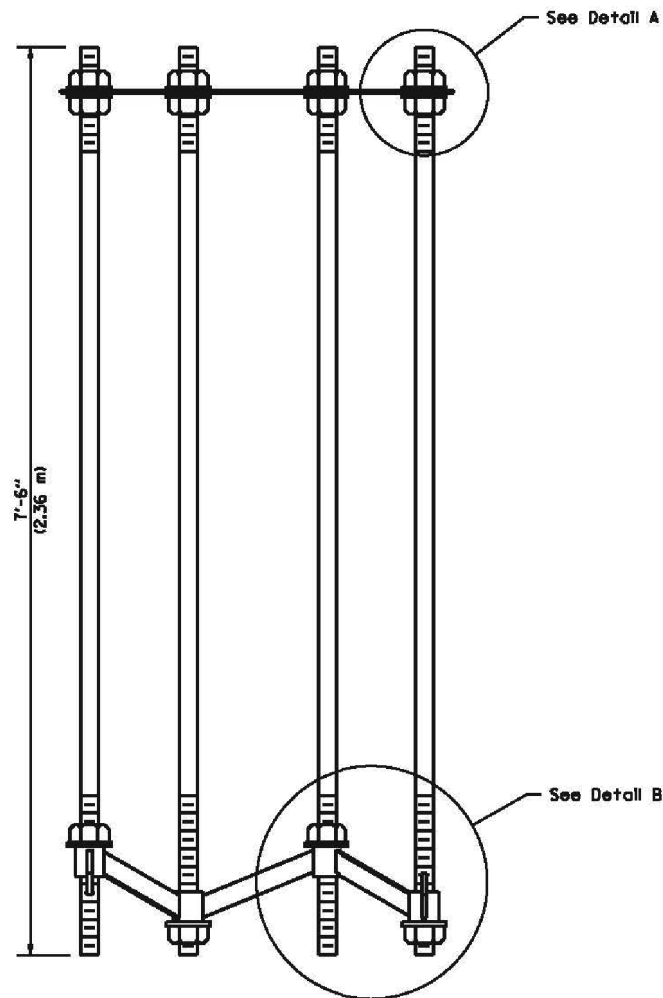
CCTV CAMERA STRUCTURE, 80 FT M.H.,
FOUNDATION SHEET 1 OF 2

SCALE: N.T.S. SHEET NO. 1 OF 2 SHEETS STA. TO STA.

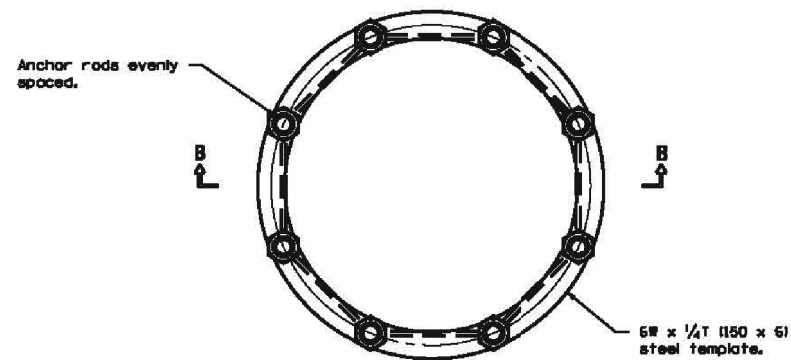
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	356
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				

ROD AND REINFORCEMENT TABLE					
TOWER HEIGHT	ANCHOR ROD DIAM. (MIN)	ROD CIRCLE DIAM. (MIN)	TOWER BASE DIAM. (MIN)	DRILLED SHAFT DIAM. ①	V BAR QTY.
80' (25 m)	1/2 (38)	30 (760)	24 (610)	4'-0" (1.2 m)	14

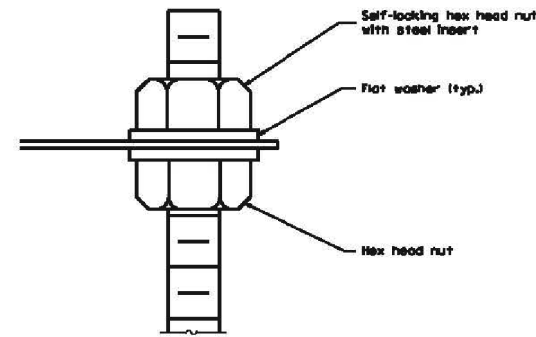
① Diameter based on a 5 (125) conc. cover. The min. cover shall be 3 (75) in dry shaft excavation and 4 (100) in a wet hole. When rock is encountered a 5 (125) cover against soil and a 2 (50) cover against rock shall be required.



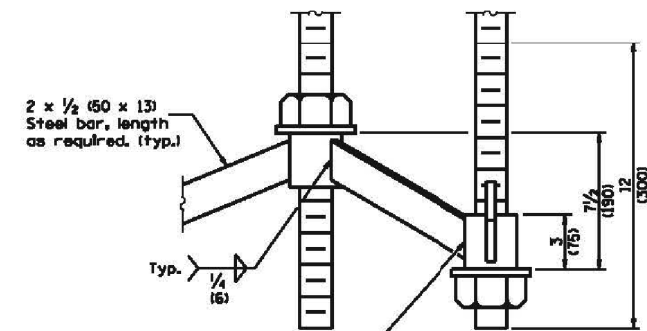
SECTION B-B



ANCHOR ROD CAGE (PLAN)



DETAIL A



DETAIL B

GENERAL NOTES

Anchor rod quantity, diameter, and length shall be determined by the CCTV structure manufacturer and approved by the Engineer. Each foundation shall have a minimum of 8 anchor rods.

All foundation reinforcement steel shall be epoxy coated.

The cost of reinforcement shall be included in the cost of the foundation.

Steel anchor rod forms shall not be removed for a minimum of 3 days after concrete is poured. The tower shall not be set for a minimum of 7 days or as approved by the Engineer.

Coordinate the rod circle diameter of the structure with the diameter of the anchor rod cage.

The foundation shall be poured monolithically and shall have no construction joints.

Grounding electrodes shall be installed in an access well when there is a conflict in using the method shown.

All dimensions are in inches (millimeters) unless otherwise shown.



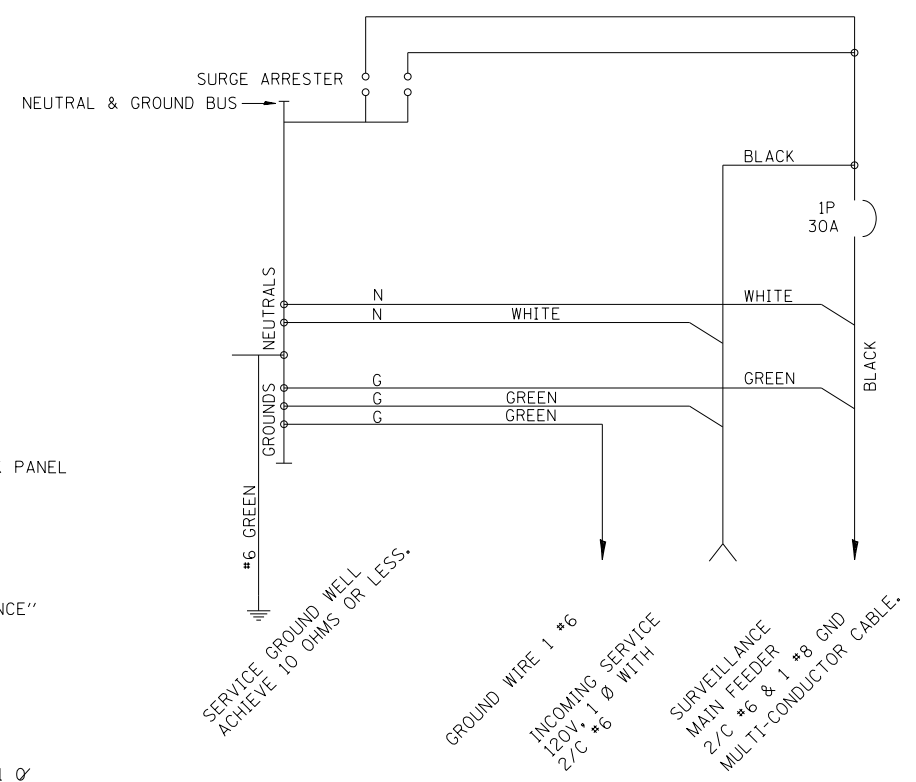
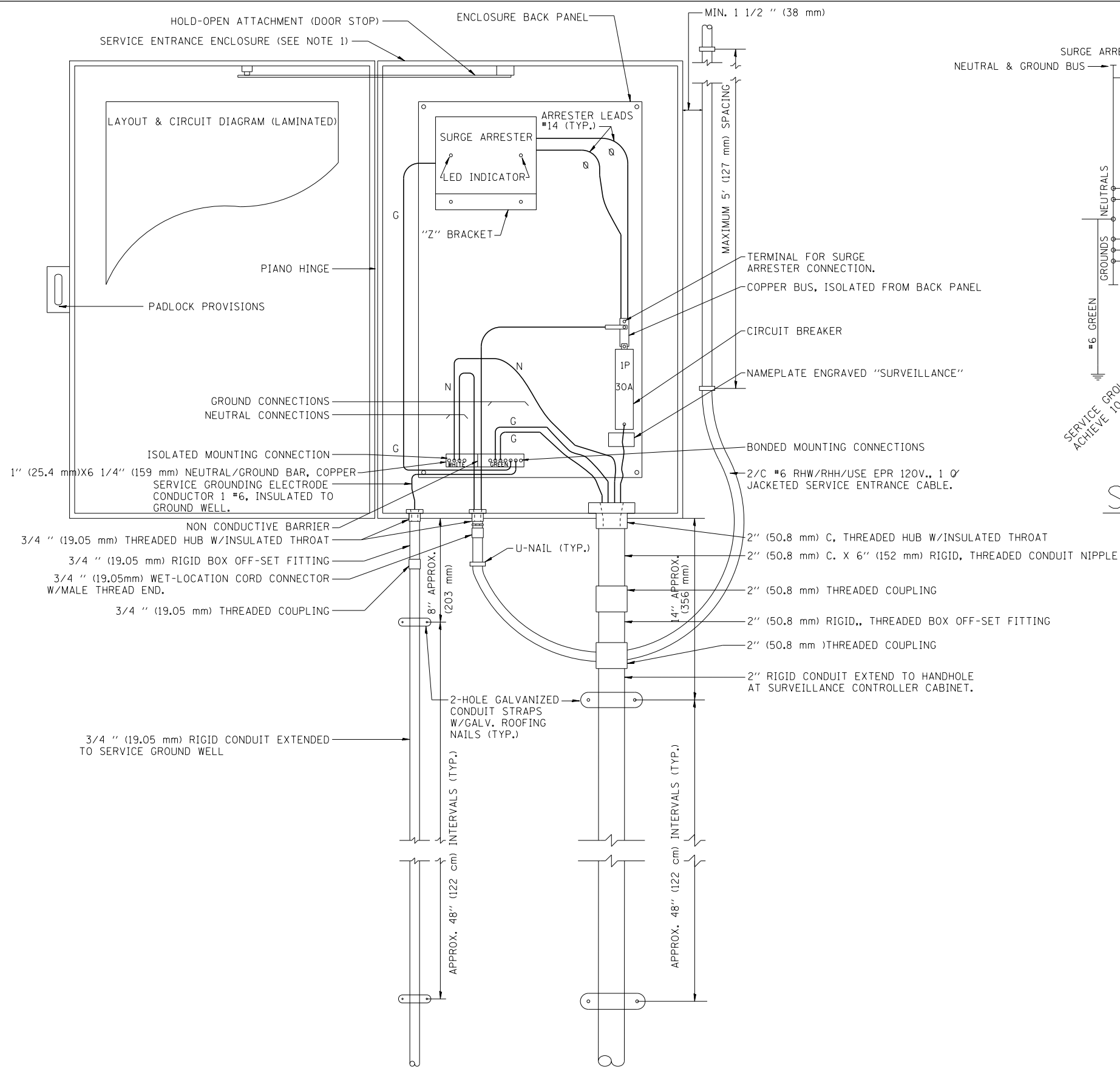
USER NAME = jblakley	DESIGNED R.L.	REVISED -
	DRAWN G.M.	REVISED -
PLOT SCALE = 1/8" = 1' / in.	CHECKED R.L.	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CCTV CAMERA STRUCTURE, 80 FT M.H.,
FOUNDATION, SHEET 2 OF 2

SCALE: N.T.S. SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	357
				CONTRACT NO. 60Y38
ILLINOIS FED. AID PROJECT				



SCHEMATIC DIAGRAM

- NOTES:
- 1.- ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED. WHERE 120-VOLT SERVICE IS INDICATED, SERVICE DROP CABLE SHALL BE INSTALLED ACCORDINGLY AND LIGHTING MAIN FEEDER CABLE SHALL BE OMITTED.
 - 2.- THE ELECTRIC SERVICE BOX SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12" (305 mm) X 18" (457 mm) X 8" (203 mm), WITH PIANO HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS, DOOR STOP KIT AND STEEL BACK PANEL, HOFFMAN CATALOG A-16H120BSS6LP/A-16P2/A-DSTOPK/C-PMK12, OR APPROVED EQUAL.
 - 3.- THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LABELED, SUITABLE FOR USE AS SERVICE EQUIPMENT.
 - 4.- CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
 - 5.- THE SURGE PROTECTOR SHALL BE SUITABLE FOR 240/120 VOLT SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE ENERGY CAPABILITY OF >3600 JOULES OR BETTER AT 8/20 MICROSECONDS, RATED -40 TO 65 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CMOV 230L065XST OR APPROVED EQUAL. SURGE PROTECTOR SHALL BE WIRED FOR 120 V SERVICE. FOLLOW MANUFACTURER RECOMMENDED WIRING SPECIFICATIONS.
 - 6.- BUS BARS, CONNECTORS AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS.
 - 7.- THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE.
 - 8.- A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE AFFIXED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
 - 9.- A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER.
 - 10.- PROVIDE ON LAYOUT AND CIRCUIT DIAGRAM A BILL OF MATERIALS USED WITH CATALOG NUMBERS.
 - 11.- REFER TO T.S.C. TYPICAL DRAWING TY-1TSC-400*20 FOR POLE MOUNTED DISCONNECT MOUNTING DETAILS.

ELECTRIC SERVICE
GENERAL LAYOUT DIAGRAM



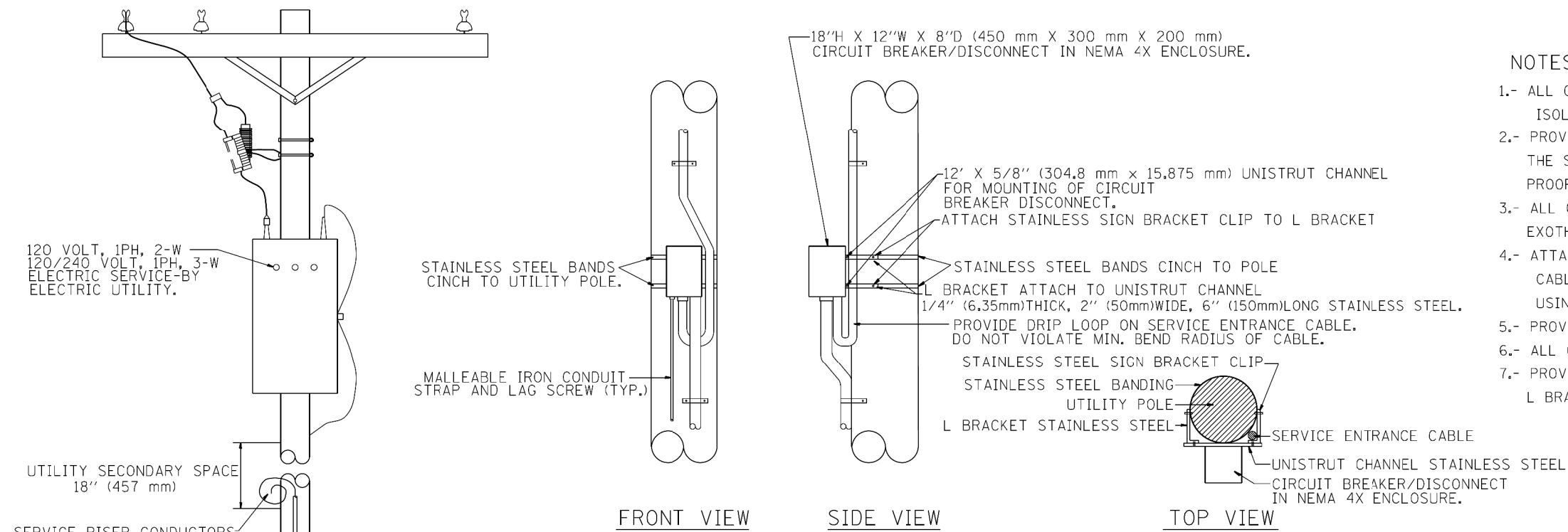
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PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 SURVEILLANCE POLE-MOUNTED ELECTRIC SERVICE BOX DETAIL (#TY-1TSC-400#19)			
SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	

F.A.I. RTE. 90	SECTION (1517 & 1415) R-3	COUNTY COOK	TOTAL SHEETS 557	SHEET NO. 358
CONTRACT NO. 60Y38				ILLINOIS FED. AID PROJECT

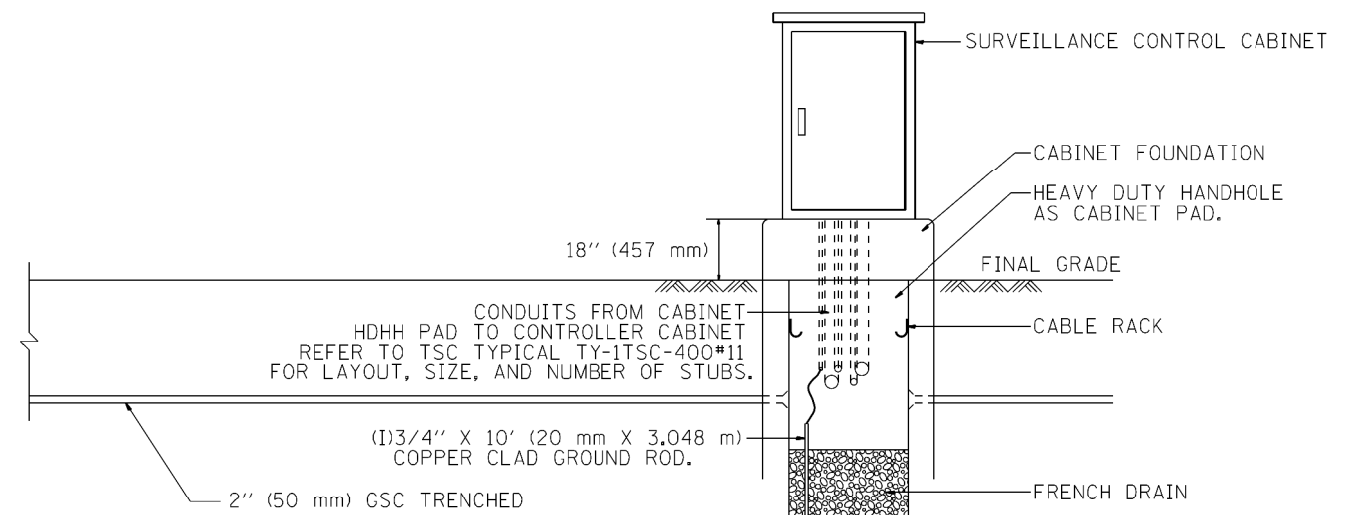
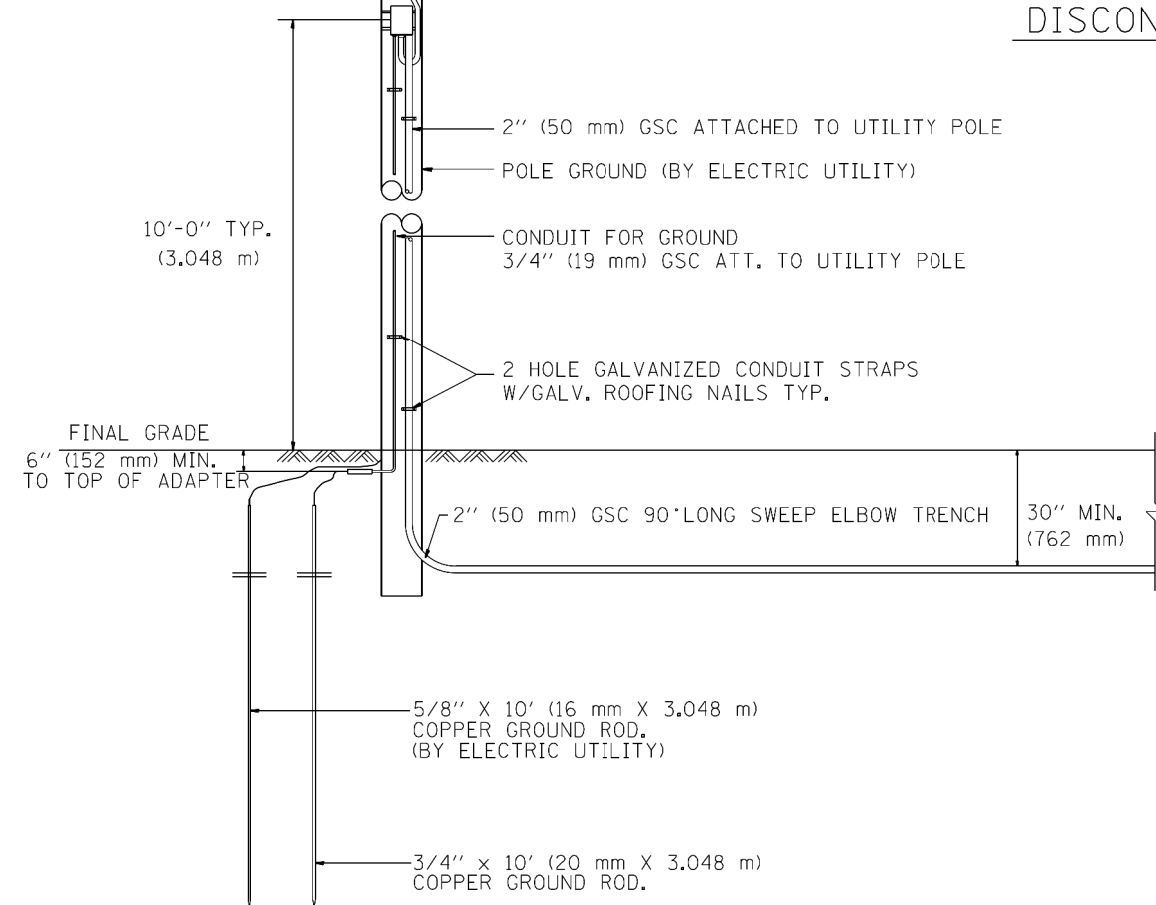
ITS-70



NTS
DISCONNECT MOUNTING DETAIL

NOTES:

- 1.- ALL CONDUIT BUSHINGS SHALL HAVE AN ISOLATED THROAT.
- 2.- PROVIDE HEAT SHRINK BOOT AT THE TOP OF THE SERVICE ENTRANCE CABLE FOR MOISTURE PROOFING.
- 3.- ALL CONNECTIONS TO GROUND RODS SHALL BE EXOTHERMIC UNLESS OTHERWISE NOTED.
- 4.- ATTACH INCOMING ELECTRIC SERVICE CABLE TO UTILITY POLE EVERY 5 FEET USING INSULATED U-NAIL.
- 5.- PROVIDE CABLE RACK IN HANDHOLES.
- 6.- ALL CONDUCTORS SHALL BE COPPER.
- 7.- PROVIDE STAINLESS STEEL HARDWARE TO ATTACH L BRACKETS TO UNISTRUT AND TO SIGN HANGER.



ITS-71



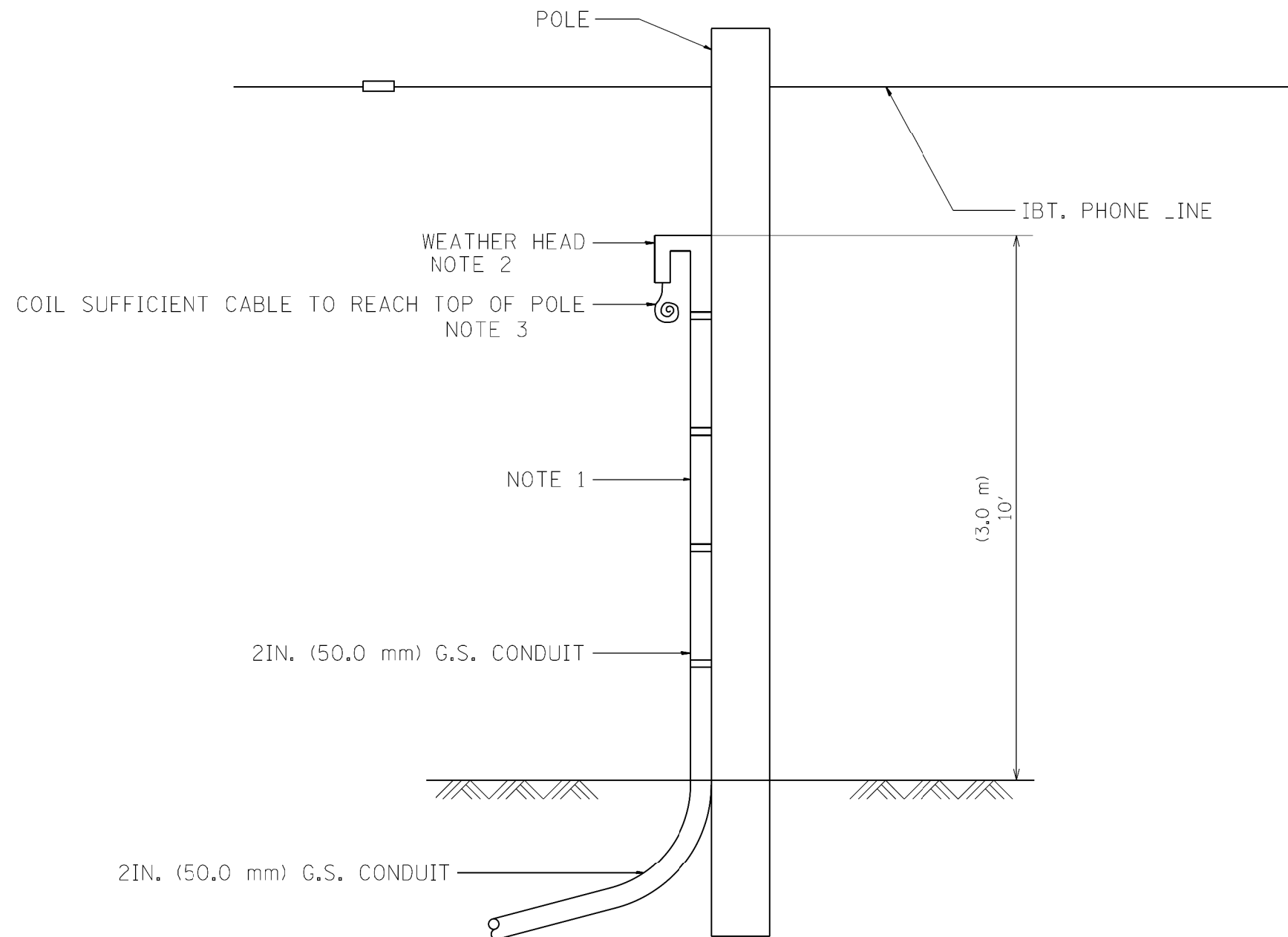
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PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

POLE MOUNTED
DISCONNECT MOUNTING DETAILS
(#TY-1TSC-400#20)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	359
CONTRACT NO. 60Y38				

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.



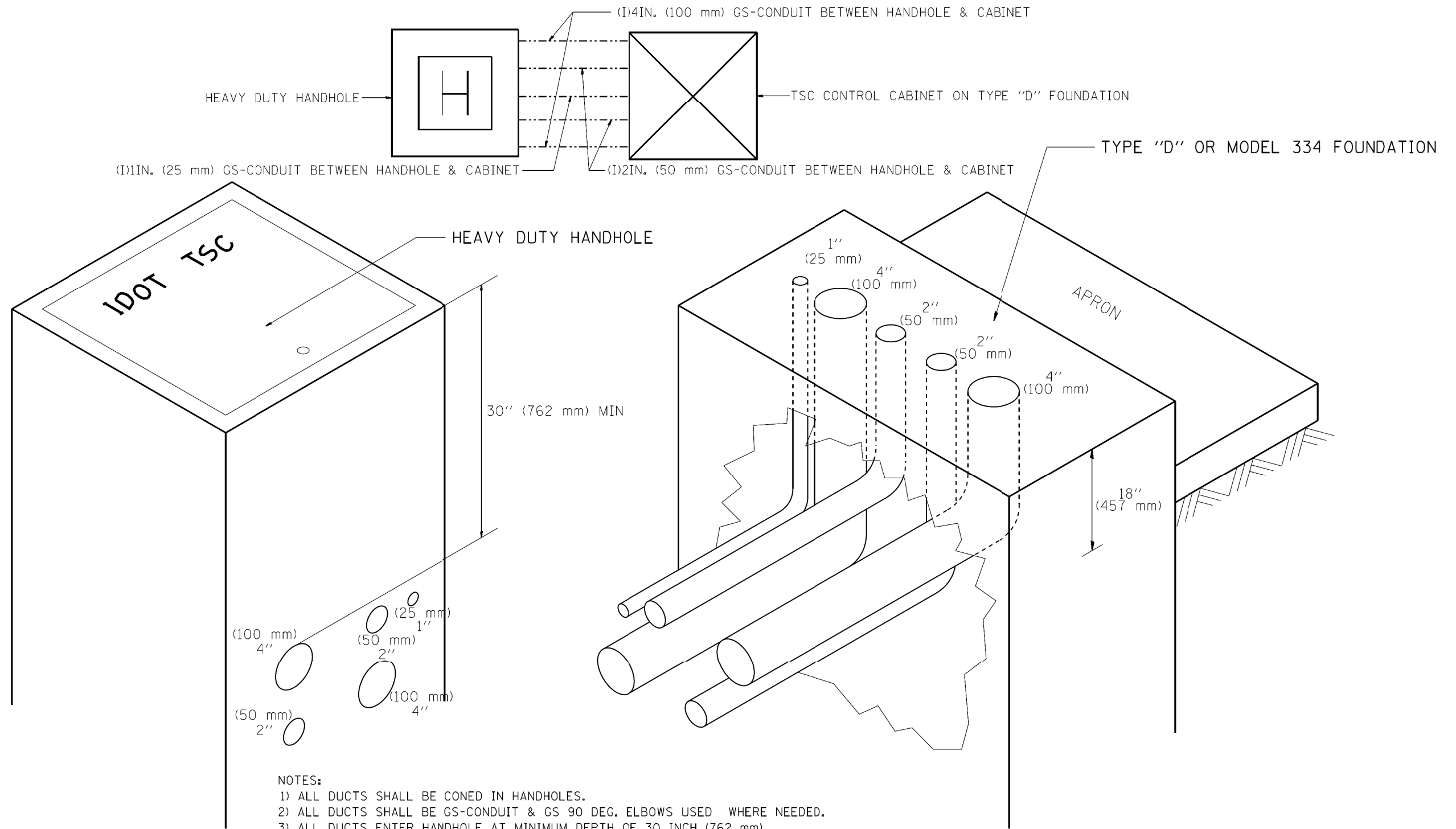
TELEPHONE SERVICE ON POLE

NOTES:

1. 2IN. (50 mm) DIAMETER 10 FT. (3.0 m) LONG G.S. CONDUIT SECTION, FURNISHED AND INSTALLED UNDER PAY ITEM FOR TELEPHONE SERVICE INSTALLATION.
2. WEATHER HEAD SHALL BE CONSIDERED INCIDENTAL TO TELEPHONE SERVICE INSTALLATION PAY ITEM.
3. SEE DRAWINGS FOR CABLE SIZE AND QUANTITY.

ITS-72

HNTB	USER NAME = jblakley	DESIGNED R.L.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TELEPHONE INSTALLATION DETAILS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN G.M.	REVISED -		90	(1517 & 1415) R-3	COOK	557	360			
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	PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -		ILLINOIS FED. AID PROJECT							



NOTES:

- 1) ALL DUCTS SHALL BE CONED IN HANDHOLES.
- 2) ALL DUCTS SHALL BE GS-CONDUIT & GS 90 DEG. ELBOWS USED WHERE NEEDED.
- 3) ALL DUCTS ENTER HANDHOLE AT MINIMUM DEPTH OF 30 INCH (762 mm)
- 4) ALL HANDHOLE COVERS SHALL READ "IDOT TSC".
- 5) ALL CABINET HANDHOLES SHALL BE HEAVY DUTY.
- 6) DUCTS SHALL BE CENTERED IN CABINET FOUNDATION/HANDHOLE AS SHOWN.
- 7) CONDUITS SHALL BE SPACED 305 mm (1 FOOT) CENTER TO CENTER IN HEAVY DUTY HANDHOLE.
- 8) INSTALL 3/4" X 10' (20 mm X 3 m) COPPER CLAD STEEL GROUND ROD IN HDHH PROVIDED AS CABINET PAD. EXOTHERMIC WELD CONNECTION FROM GROUND ROD TO #6 GROUND WIRE INSULATED (GREEN).
- 9) BOND ALL GSC CONDUITS IN CABINET FOUNDATION.
- 10) INSTALL #6 GROUND WIRE IN 1IN. (25 mm) GSC FROM HANDHOLE TO CABINET.
- 11) TYPE "D" FOUNDATION SHALL BE 18" FROM TOP OF FOUNDATION TO FINISHED GRADE.



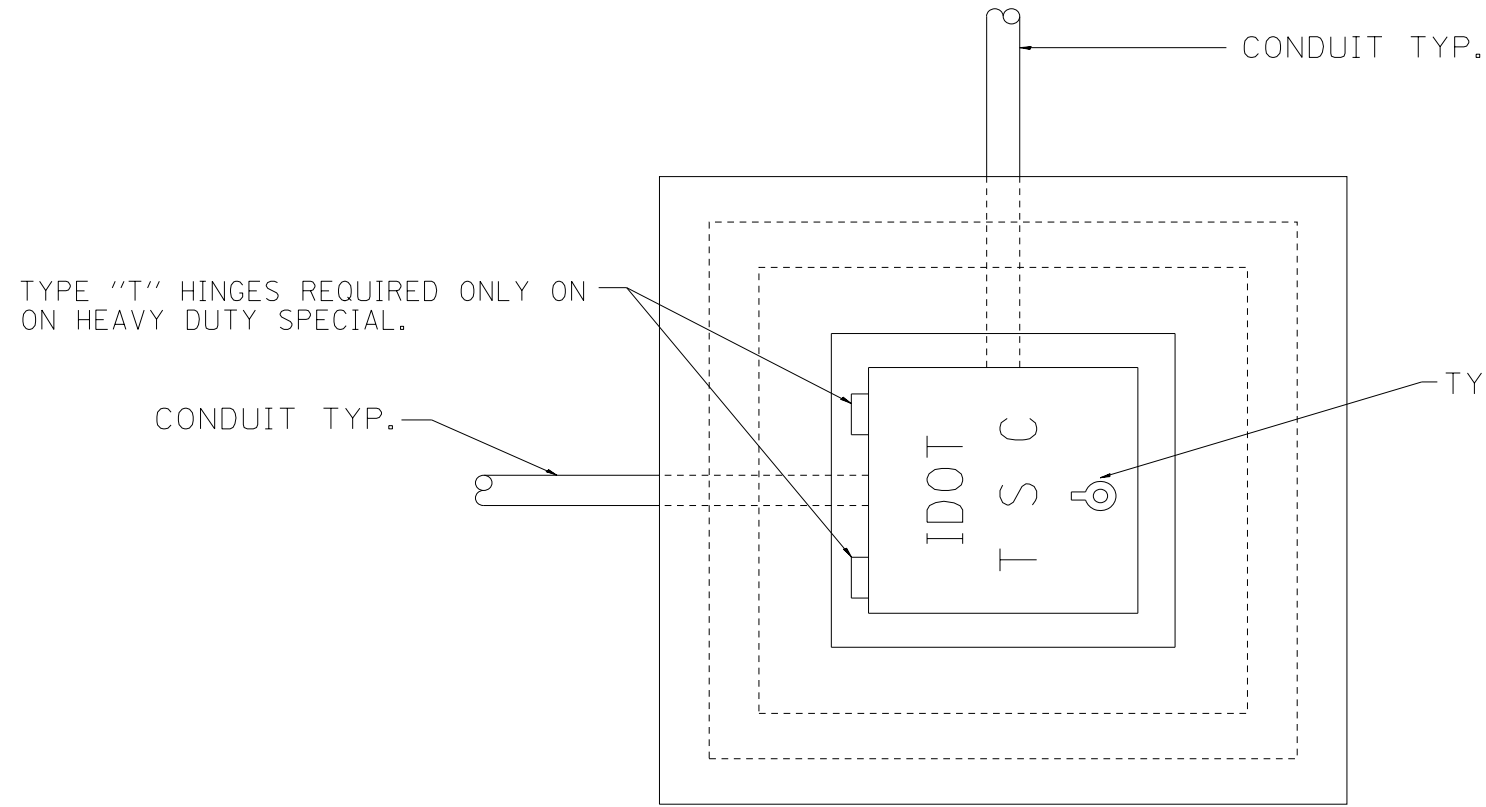
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PLOT SCALE = 1/80' / in.	CHECKED R.L.	REVISED -
PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABINET - HANDHOLE
CONDUIT DETAIL**

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	361
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y38	

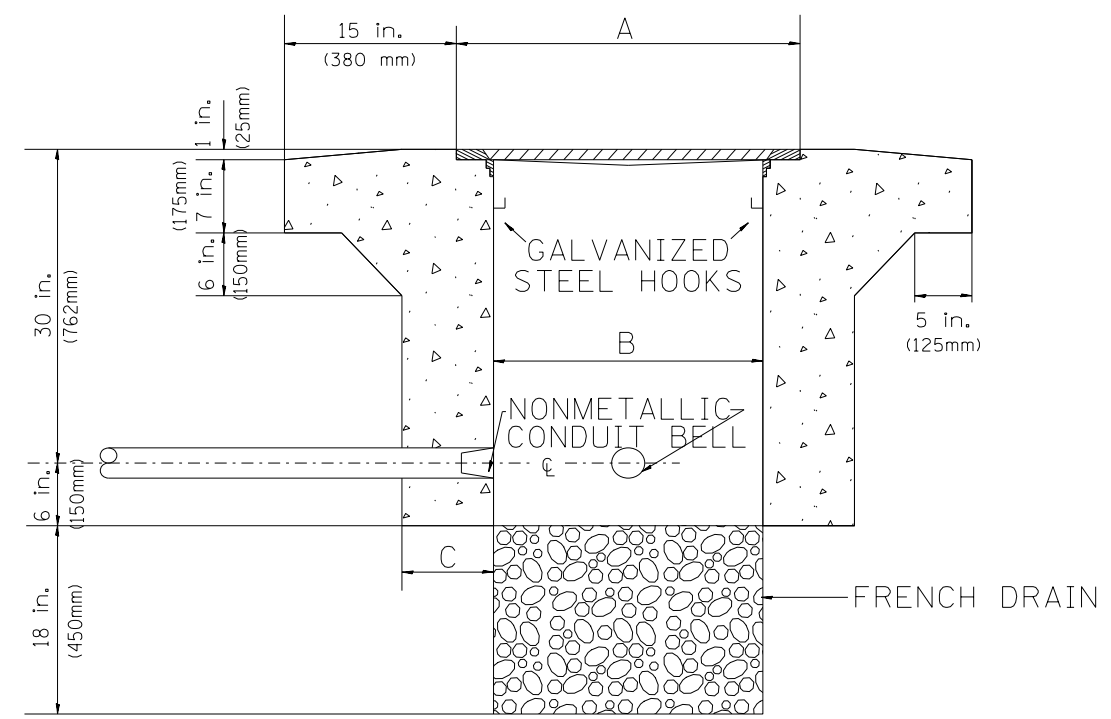


PLAN

HEAVY DUTY HANDHOLE MINIMUM DIMENSIONS (UNHINGED)

A	28" (711 mm)
B	22" (559 mm)
C	8" (200 mm)

(FRAME AND COVER 260 LBS. (118 Kg.) MIN.)



ELEVATION

HEAVY DUTY HANDHOLE SPECIAL MINIMUM DIMENSIONS

A	31.5" (800 mm)
B	30.0" (762 mm)
C	10.0" (250 mm)

(FRAME AND COVER 405 LBS. (184 Kg. (405))

PC CONCRETE - HEAVY DUTY HAND HOLE



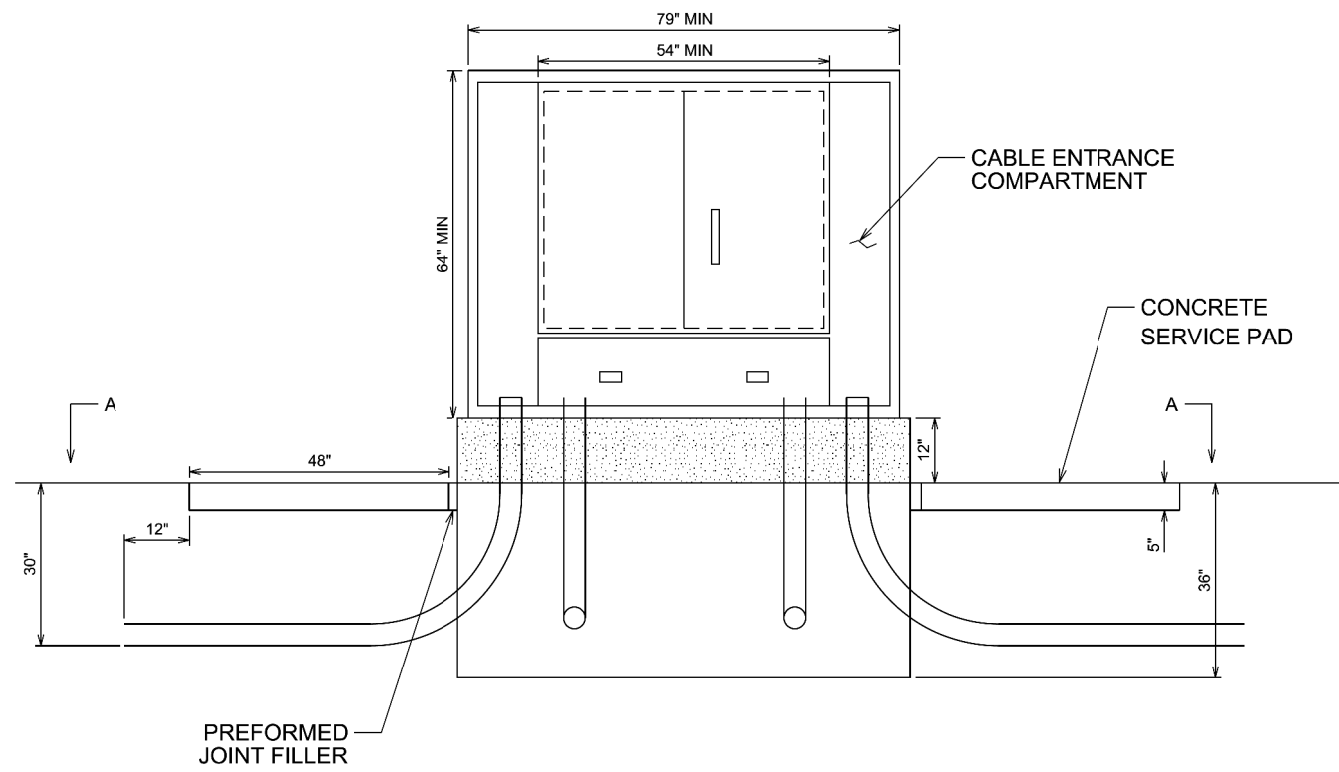
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PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

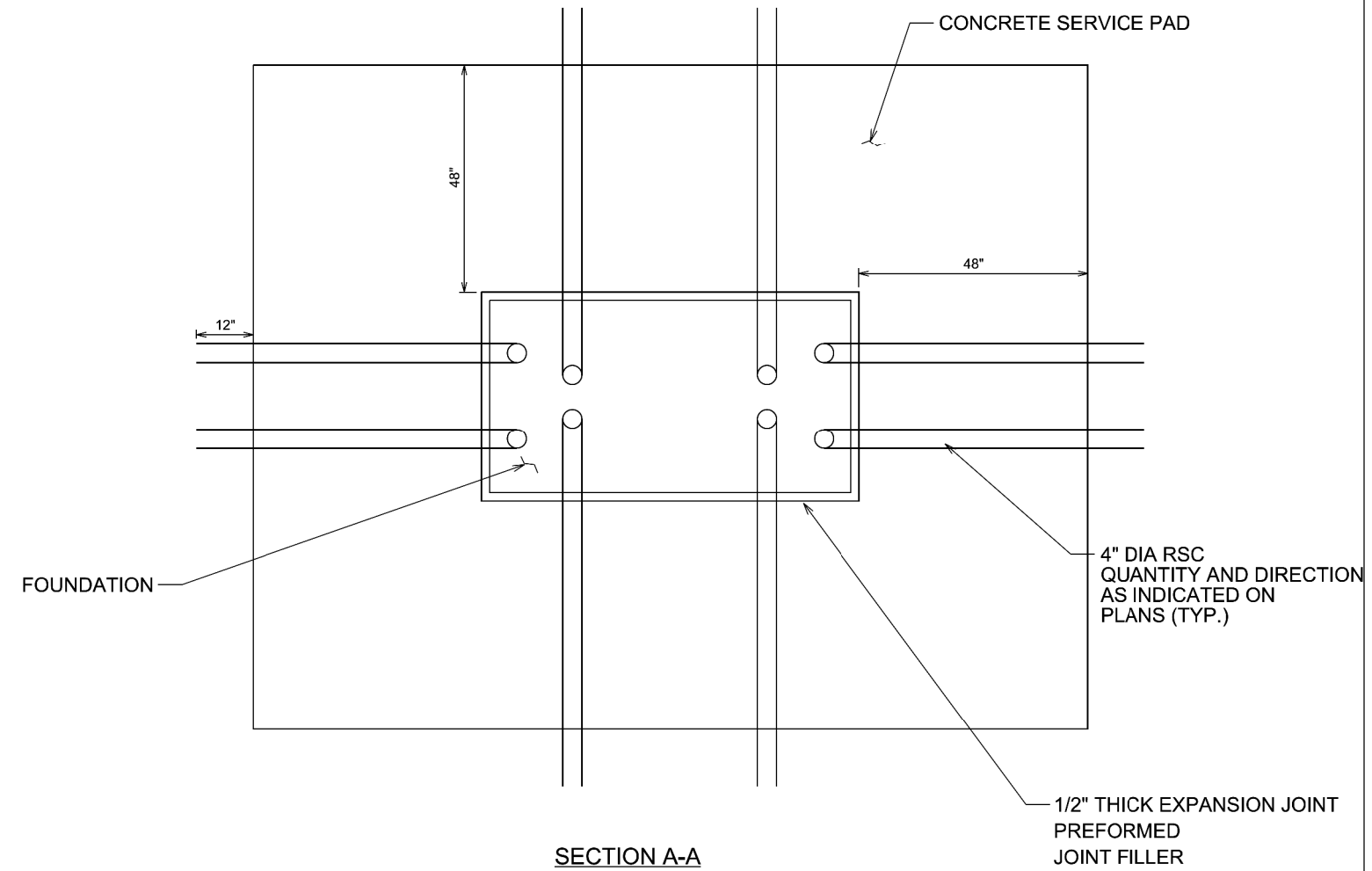
PC CONCRETE - HEAVY DUTY HAND HOLE			
SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	362
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				

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ELEVATION VIEW



SECTION A-A

NOTES:

CABINET:
ALUMINUM 5052-H32

HARDWARE:
TYPE 304 STAINLESS STEEL

FINISH:
POLYESTER POWDER COATED GRAY

RACKS:
3/16" STEEL E.I.A. / T.I.A. SPACING (10-32 THREADS)

DOORS:
3 POINT LATCH, LATCH CONTROL SWITCH, PIANO HINGE, WIND STOP

CABLE ENTRANCE COMPARTMENT:
FOUR SLACK STORAGE BRACKETS WITH HEAVY DUTY VELCRO STRAPS TO SECURE CABLES,
TWO ENTRY HOLES FOR BRINGING CABLES INTO THE MAIN CABINET

MAIN CABINET:
2-9"-23" ADJUSTABLE WIDTH RACKS, ADJUSTABLE FRONT TO REAR POSITION (43" TALL)
2-19"-23" ADJUSTABLE WIDTH RACKS, SWING OUT (40" TALL)
166" OF TOTAL INCHES OF RACK SPACE (95 RU)
4-15" WATT SHATTER-SHIELD LIGHT FIXTURES



USER NAME = jblakley	DESIGNED R.L.	REVISED -
	DRAWN G.M.	REVISED -
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PLOT DATE = 6/3/2016	DATE 5/6/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FIBER OPTIC INTERCONNECT CABINET

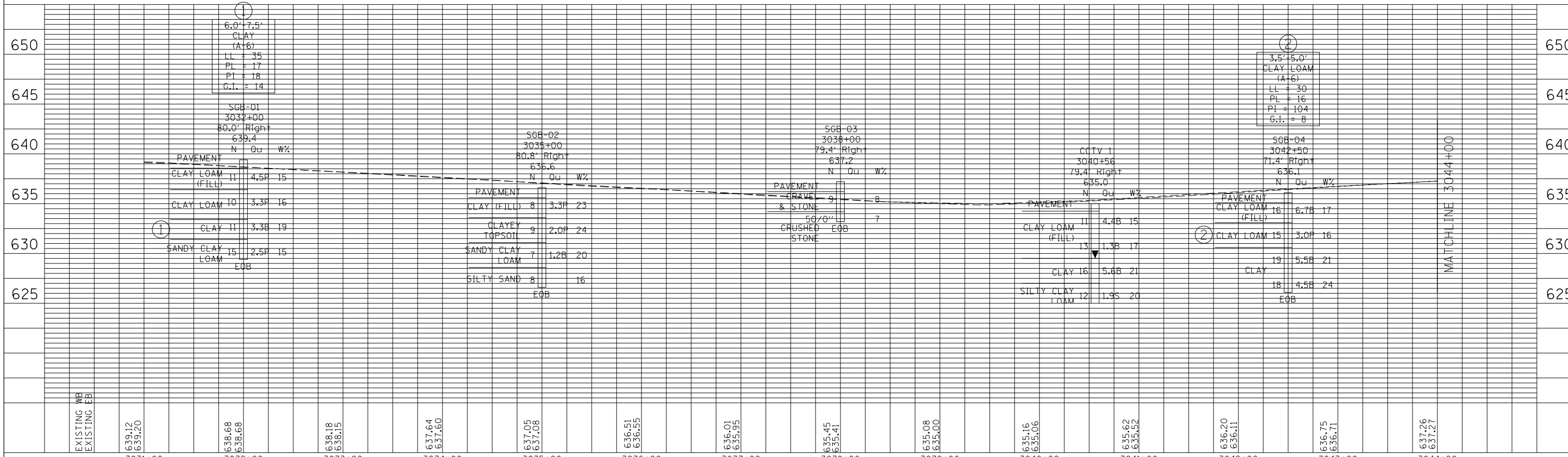
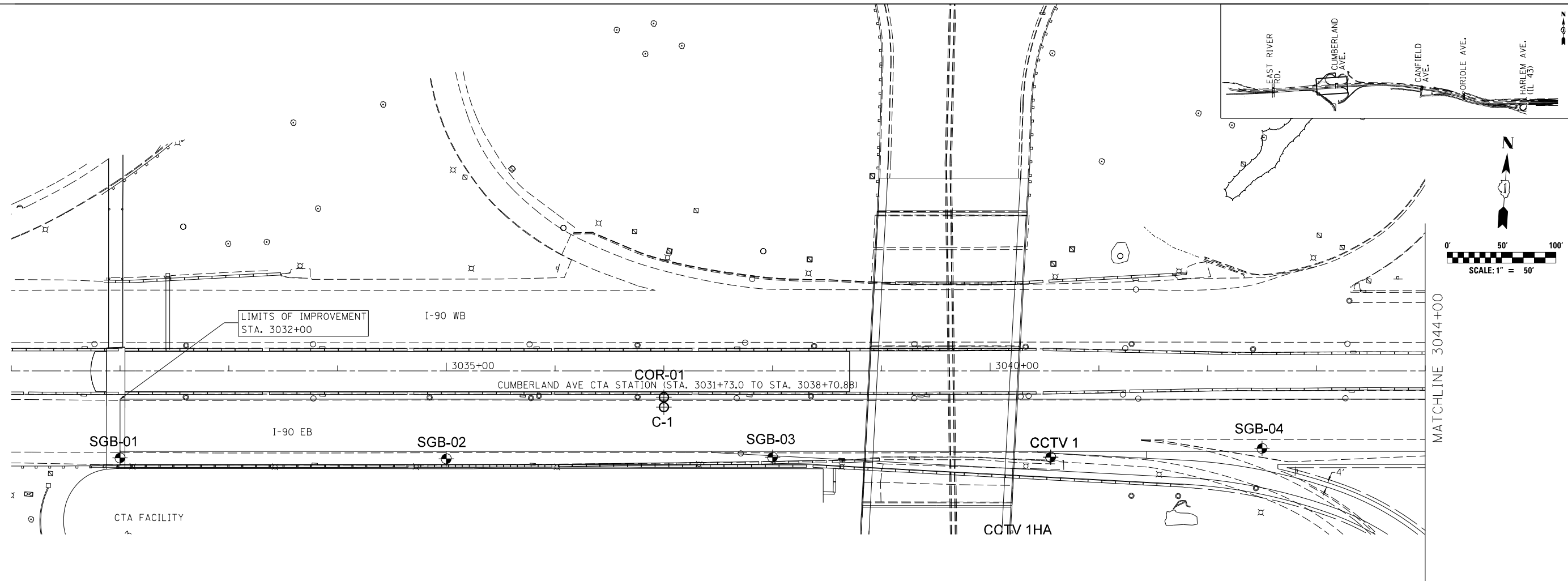
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	363
				CONTRACT NO. 60Y38
ILLINOIS FED. AID PROJECT				

ITS-75

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE CHECKED		
	NO. CAD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE CHECKED		
	NO. NOTATIONS CHD		



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EXISTING EB	639.20	638.68	638.15	637.60	637.08	636.55	635.95	635.41	635.00	635.06	635.52	636.11	636.71	637.27
	3031+00	3032+00	3033+00	3034+00	3035+00	3036+00	3037+00	3038+00	3039+00	3040+00	3041+00	3042+00	3043+00	3044+00

Geo Services Inc.
Geotechnical Engineering & Civil Engineering
805 Ashford Court, Suite 204
Naperville, Illinois 60565
(630) 851-2236

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PLOT SCALE =	CHECKED AJP	REVISED -
PLOT DATE =	DATE 5/6/2016	REVISED -

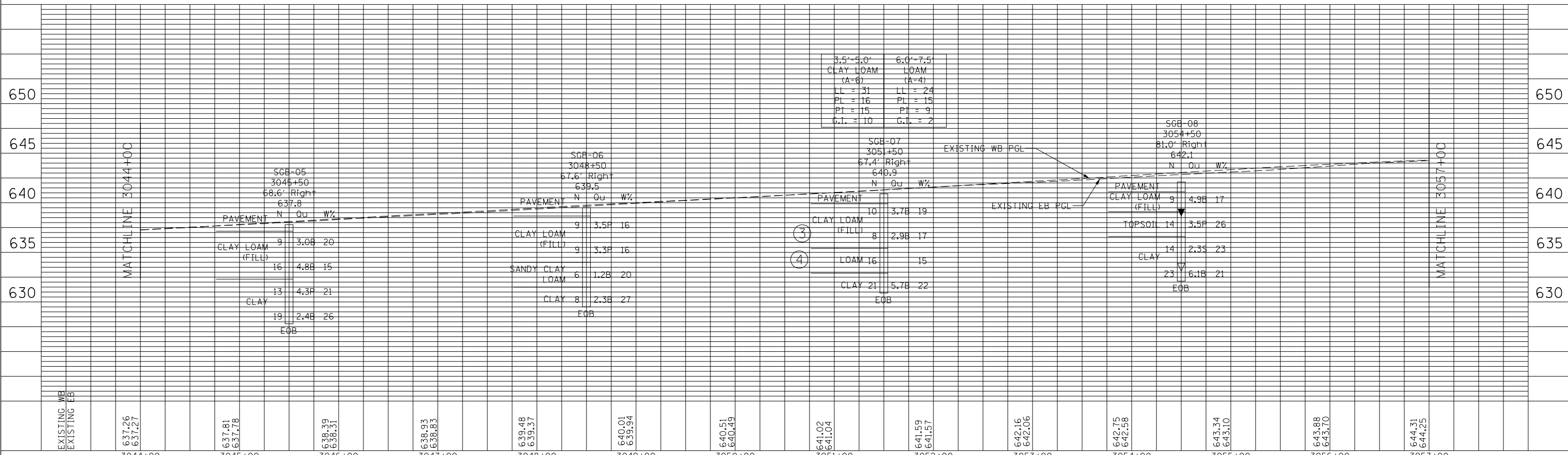
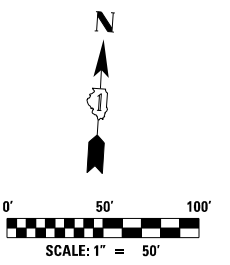
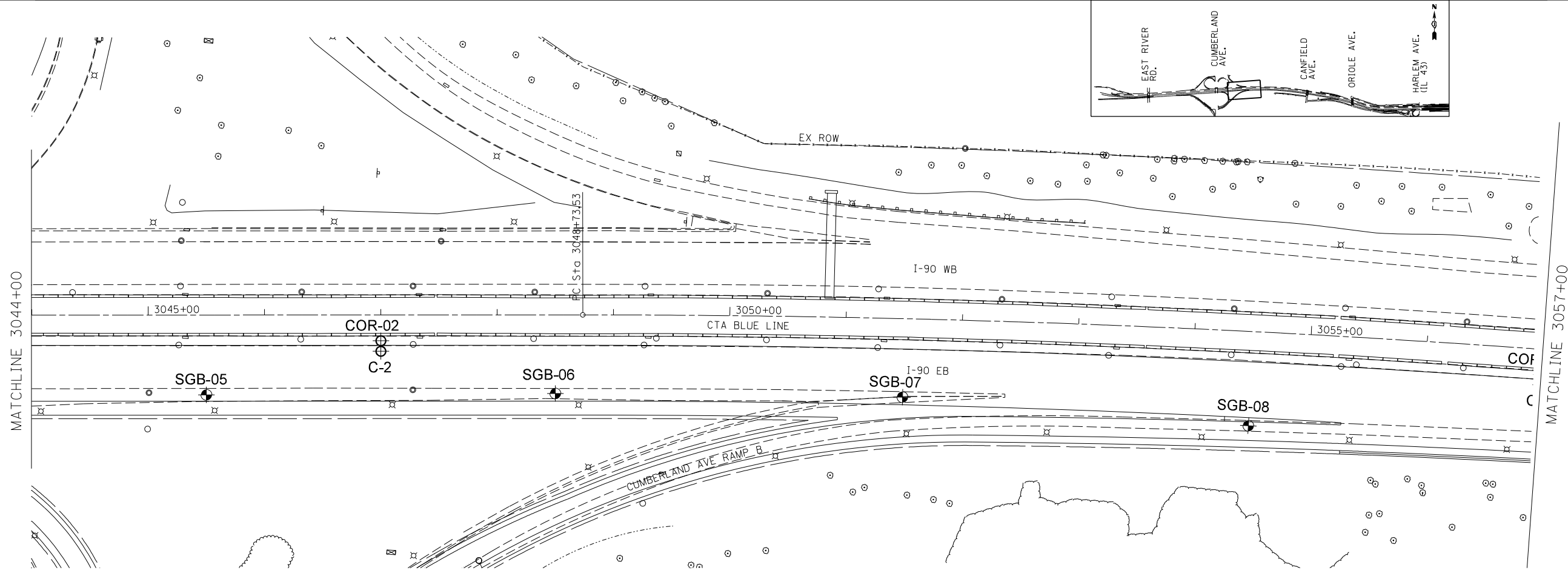
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 FROM I-190 TO HARLEM AVE.
WIDENING AND RESURFACING
EB MAINLINE ROADWAY SOIL BORING PLAN & PROFILE
SCALE: 1"=50' SHEET NO. 1 OF 7 SHEETS STA. 3031+00 TO STA. 3044+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	364
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				

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	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CHECKED		
	ALIGNED		
	FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CHECKED		
	ALIGNED		
	FILE NAME		
	NO.		



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3044+00	3045+00	3046+00	3047+00	3048+00	3049+00	3050+00	3051+00	3052+00	3053+00	3054+00	3055+00	3056+00	3057+00

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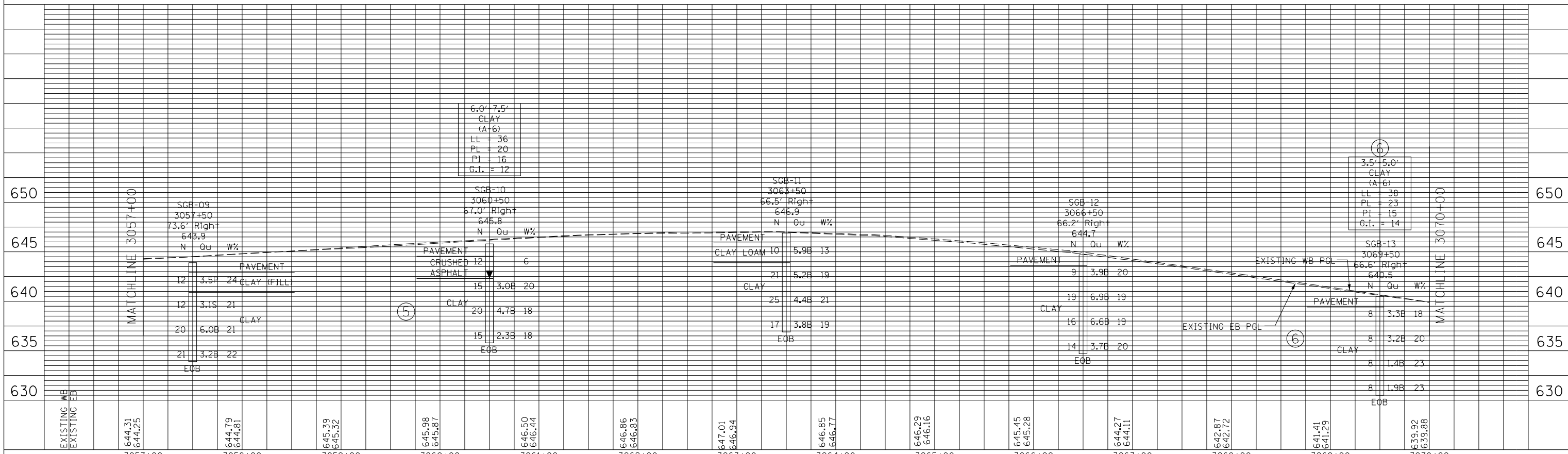
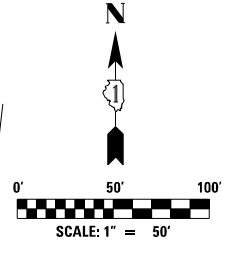
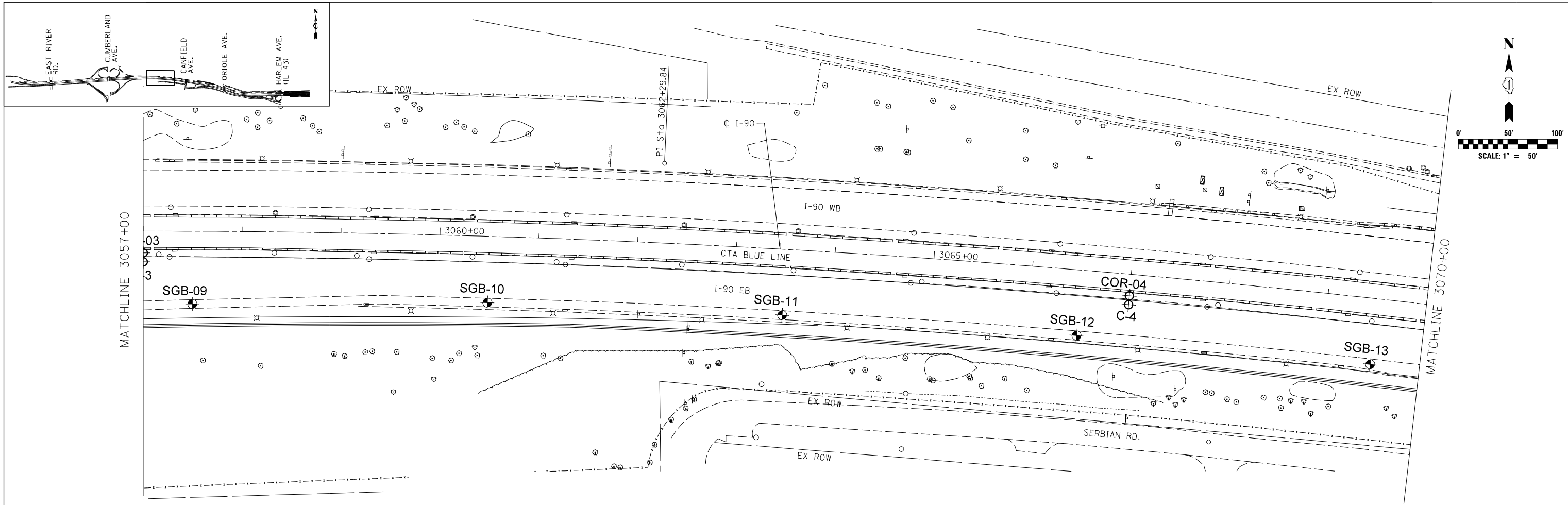
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 FROM I-190 TO HARLEM AVE.
WIDENING AND RESURFACING
EB MAINLINE ROADWAY SOIL BORING PLAN & PROFILE
SCALE: 1"=50' SHEET NO. 2 OF 7 SHEETS STA. 3044+00 TO STA. 3057+00

F.A.I. RTE. 90	SECTION (1517 & 1415) R-3	COUNTY COOK	TOTAL SHEETS 557	SHEET NO. 365
CONTRACT NO. 60Y38			ILLINOIS FED. AID PROJECT	

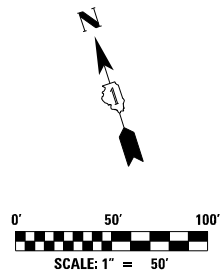
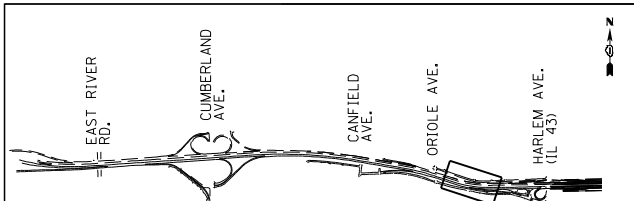
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NOTE BOOK NO.	CADD FILE NAME		

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	STRUCTURE		
NOTE BOOK NO.	NOTATIS CHFD		

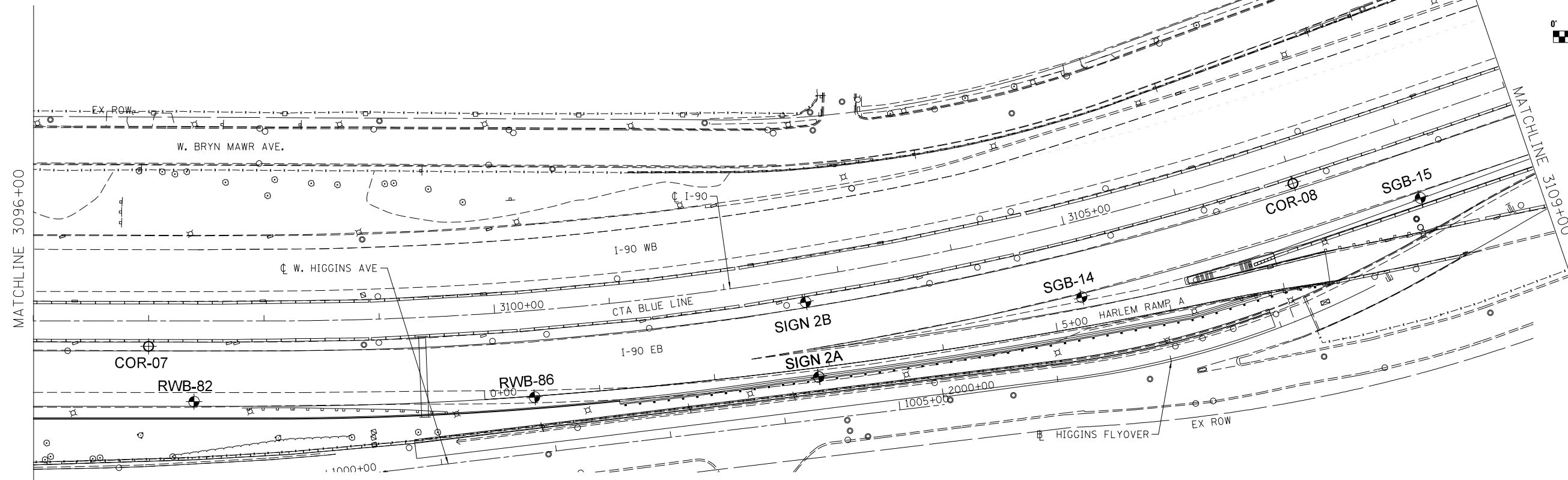


<p>Geo Services Inc. Geotechnical Engineering & Civil Engineering 805 Amphlett Court, Suite 204 Naperville, Illinois 60565 (630) 851-2236</p>	USER NAME = DRAWN RWC CHECKED AJP DATE 5/6/2016	DESIGNED RWC REVISIONS: REVISIONS: REVISIONS: REVISIONS:	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-90 FROM I-190 TO HARLEM AVE. WIDENING AND RESURFACING EB MAINLINE ROADWAY SOIL BORING PLAN & PROFILE	F.A.I. RTE. 90 SECTION (1517 & 1415) R-3 COUNTY COOK TOTAL SHEETS 557 SHEET NO. 366	CONTRACT NO. 60Y38 ILLINOIS FED. AID PROJECT
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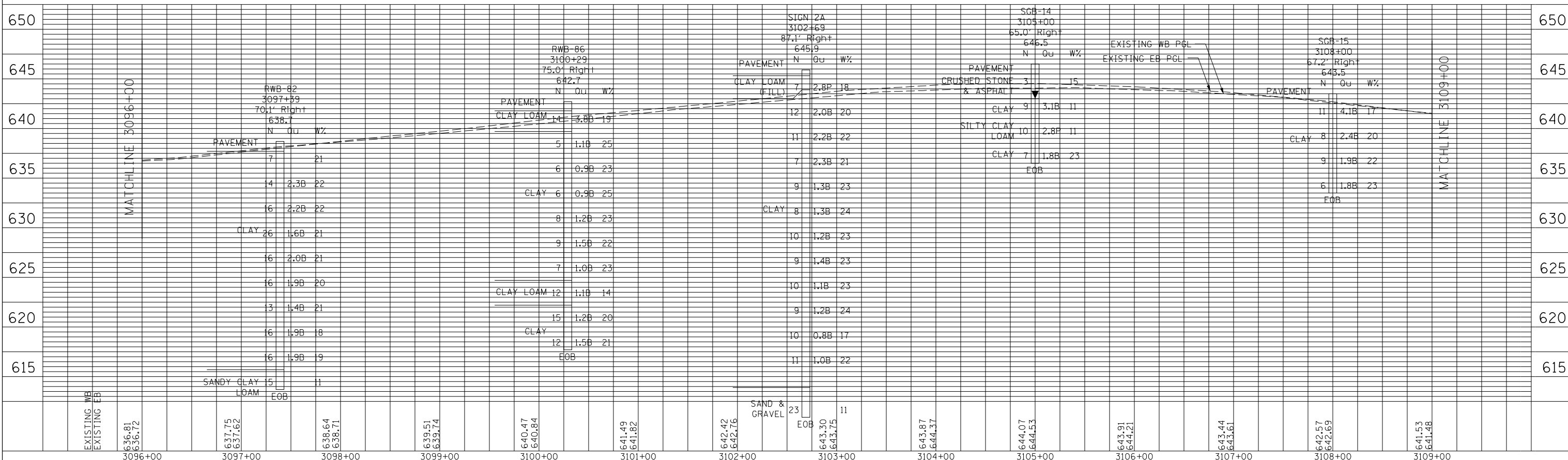
SCALE: 1"=50' SHEET NO. 3 OF 7 SHEETS STA. 3057+00 TO STA. 3070+00



PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	



PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	



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630-855-1236

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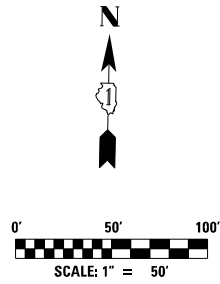
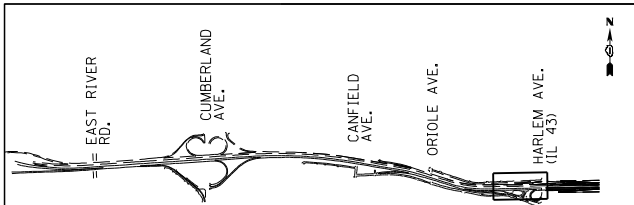
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 FROM I-190 TO HARLEM AVE.
WIDENING AND RESURFACING
EB MAINLINE ROADWAY SOIL BORING PLAN & PROFILE**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	369
CONTRACT NO. 60Y38				

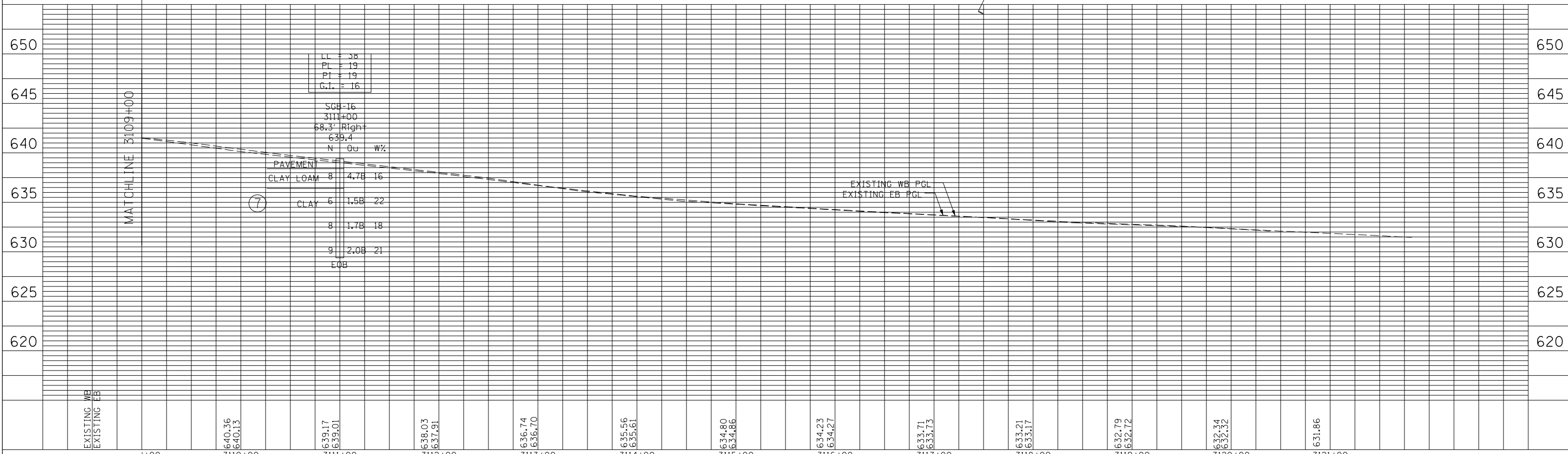
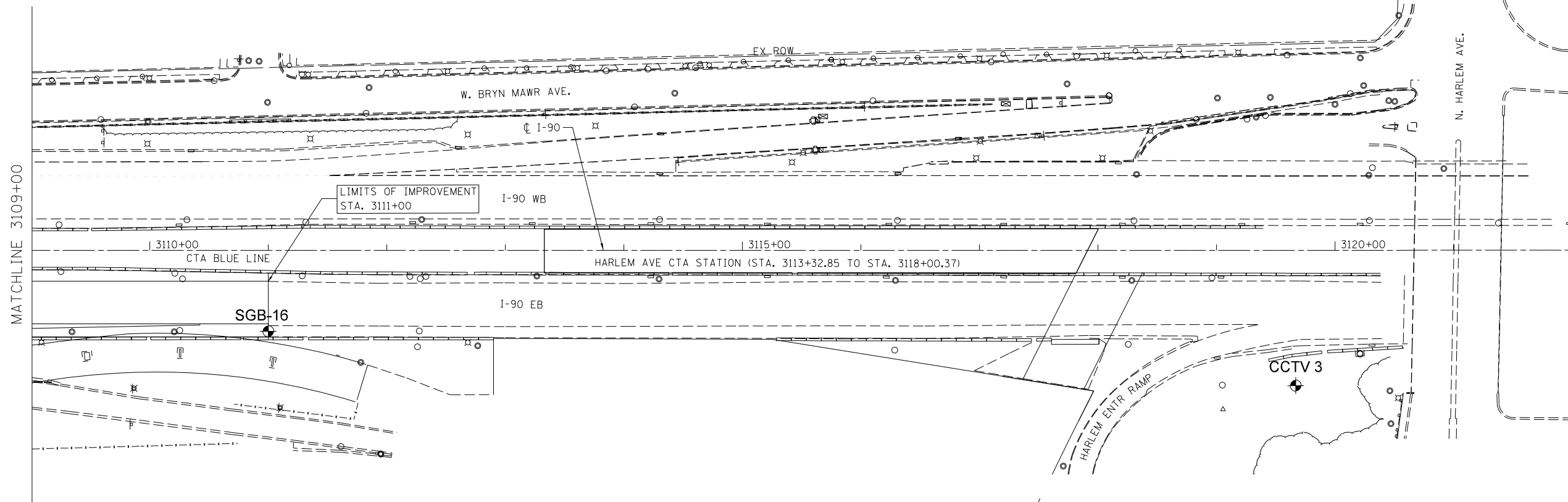
SCALE: 1"=50' SHEET NO. 6 OF 7 SHEETS STA. 3096+00 TO STA. 3109+00

ILLINOIS FED. AID PROJECT



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	FILE NAME		



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	PLOT SCALE =	CHECKED AJP	REVISED -		90	(1517 & 1415) R-3	COOK	557	370		
	PLOT DATE	DATE 5/6/2016	REVISED -		SCALE: 1"=50'		SHEET NO. 7 OF 7 SHEETS	STA. 3109+00 TO STA. 3122+00	CONTRACT NO. 60Y38		
	ILLINOIS FED. AID PROJECT										

Bench Mark: TBM #19 - Square cut on top of barrier wall by light pole (FC13) mile marker 80.40 on north side WB I-90 just east of Canfield. Elev. 638.00

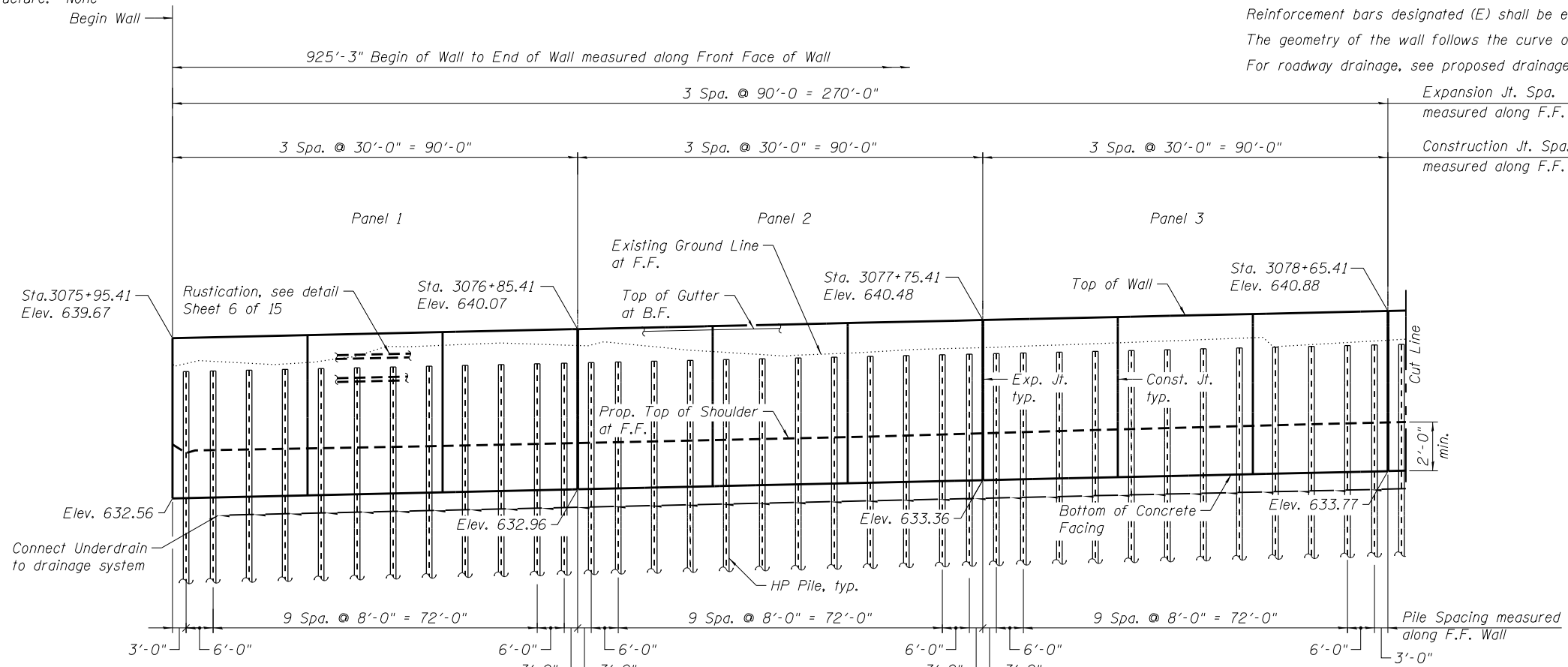
GENERAL NOTES

Offsets are measured from C I-90 to Front Face of wall.
 Reinforcement bars designated (E) shall be epoxy coated.
 The geometry of the wall follows the curve of the C I-90 .
 For roadway drainage, see proposed drainage plans.

INDEX OF SHEETS

- S-1 Retaining Wall 1 Plan & Elevation - 1
- S-2 Retaining Wall 1 Plan & Elevation - 2
- S-3 Retaining Wall 1 Plan & Elevation - 3
- S-4 Retaining Wall 1 Details - 1
- S-5 Retaining Wall 1 Details - 2
- S-6 Retaining Wall 1 Details - 3
- S-7 Soil Boring Logs - 1
- S-8 Soil Boring Logs - 2
- S-9 Soil Boring Logs - 3
- S-10 Soil Boring Logs - 4
- S-11 Soil Boring Logs - 5
- S-12 Soil Boring Logs - 6
- S-13 Soil Boring Logs - 7
- S-14 Soil Boring Logs - 8
- S-15 Soil Boring Logs - 9

Existing Structure: None



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu Yd	739
Concrete Structures	Cu Yd	230.9
Protective Coat	Sq Yd	590
Stud Shear Connectors	Each	631
Reinforcement Bars, Epoxy Coated	Pound	34,580
Furnishing Soldier Piles (HP Section)	Foot	2,618
Driving Soldier Piles	Foot	2,618
Untreated Timber Lagging	Sq Ft	4,251
Geocomposite Wall Drain	Sq Yd	346
Pipe Underdrains For Structures 4"	Foot	947



DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)

DESIGN SPECIFICATIONS

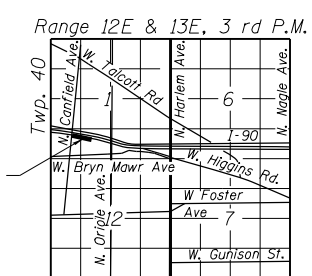
2014 AASHTO LRFD Bridge Design Specifications, 7th Edition, with 2015 Interim Revisions

Signed: _____
 Date: _____
 Exp: 11/30/2016
 Sheets: S-1 thru S-15

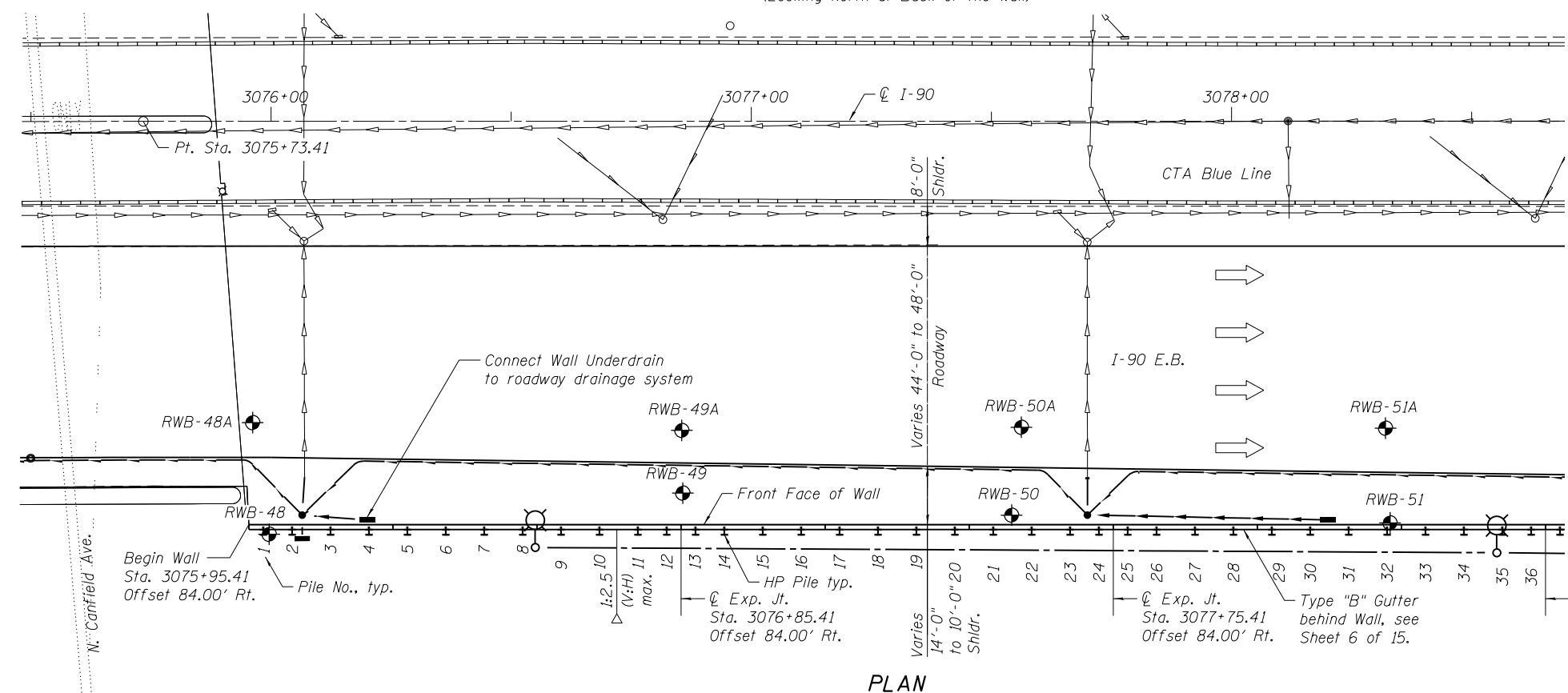
LEGEND:

- Existing: \square Inlet
- Proposed: \bullet Catch Basin
- \circ Manhole
- \ominus Storm Sewer
- --- Pipe Underdrain
- \otimes Light Pole
- \odot Boring
- --- Prop. Lighting cable
- F.F. - denotes Front Face
- B.F. - denotes Back Face
- E.F. - denotes Each Face

- Notes:
- For continuation, see Sheet 2 of 15.
 - For soldier pile data, see Sheets 3 and 5 of 15.
 - Piles to be placed with flanges parallel to wall.



LOCATION SKETCH

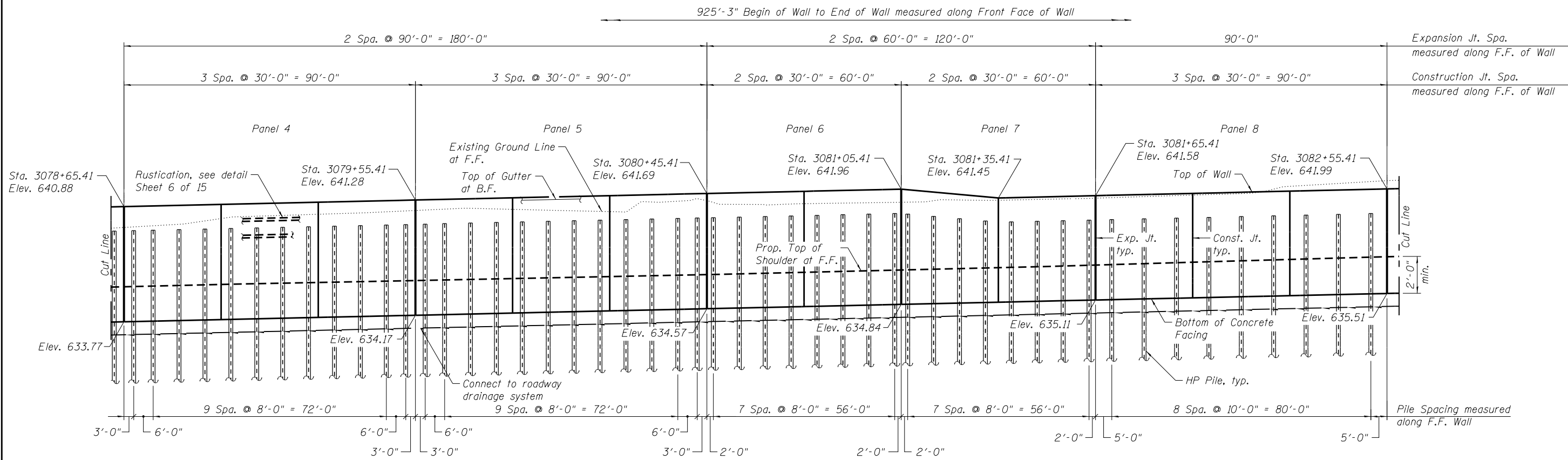


USER NAME = kcolito	DESIGNED MRI	REVISED
	CHECKED PCA	REVISED
PLOT SCALE = 0.16667' / in.	DRAWN LK	REVISED
PLOT DATE = 6/6/2016	DATE 5/6/2016	REVISED

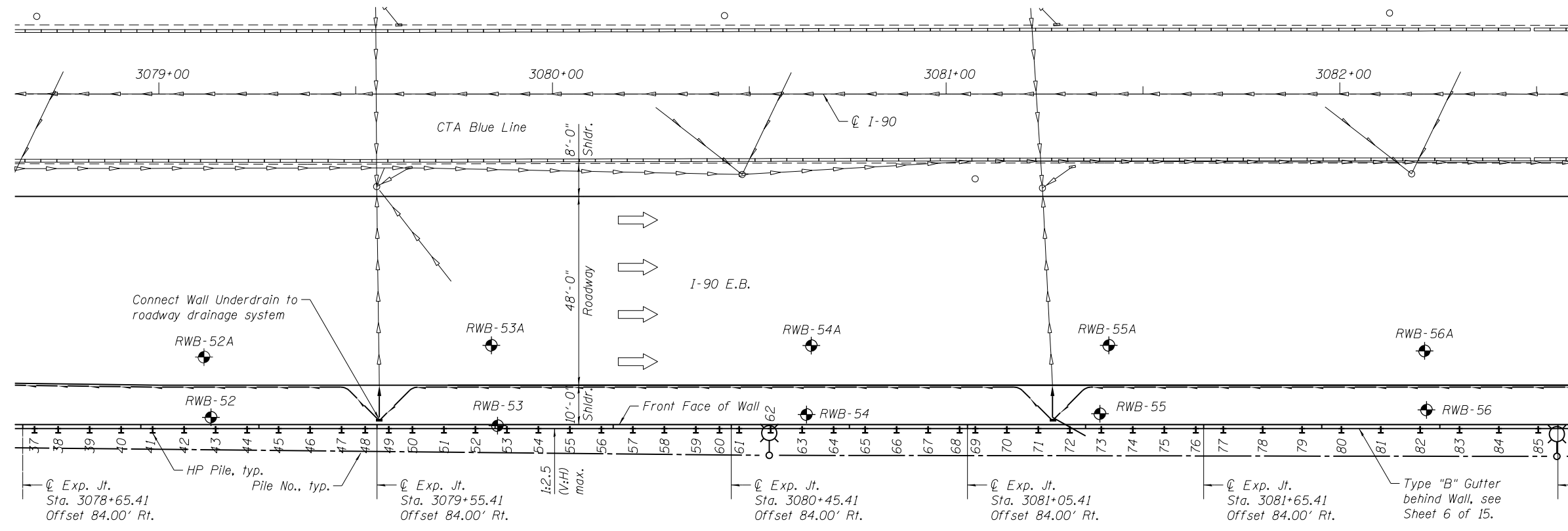
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL 1 PLAN & ELEVATION - 1
STRUCTURE NO. 016-2033

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	371
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				



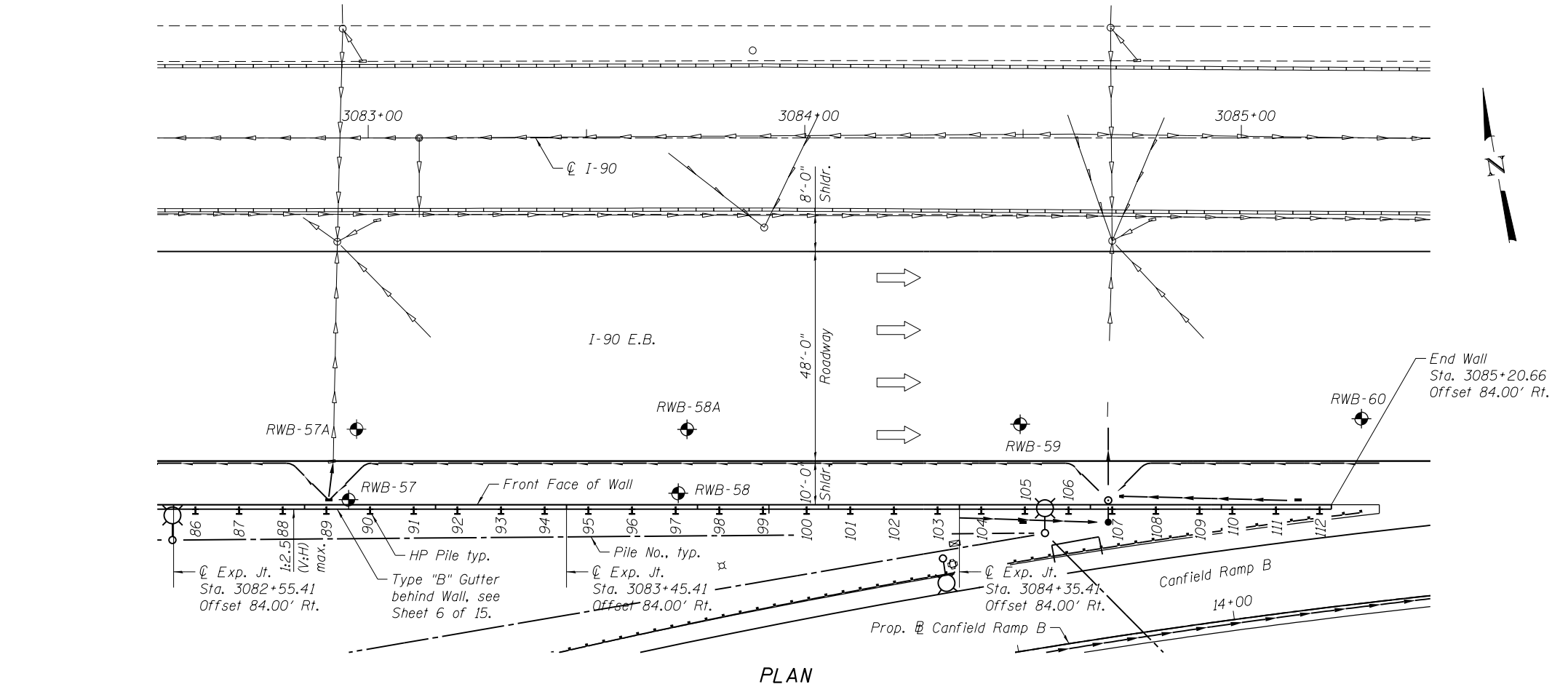
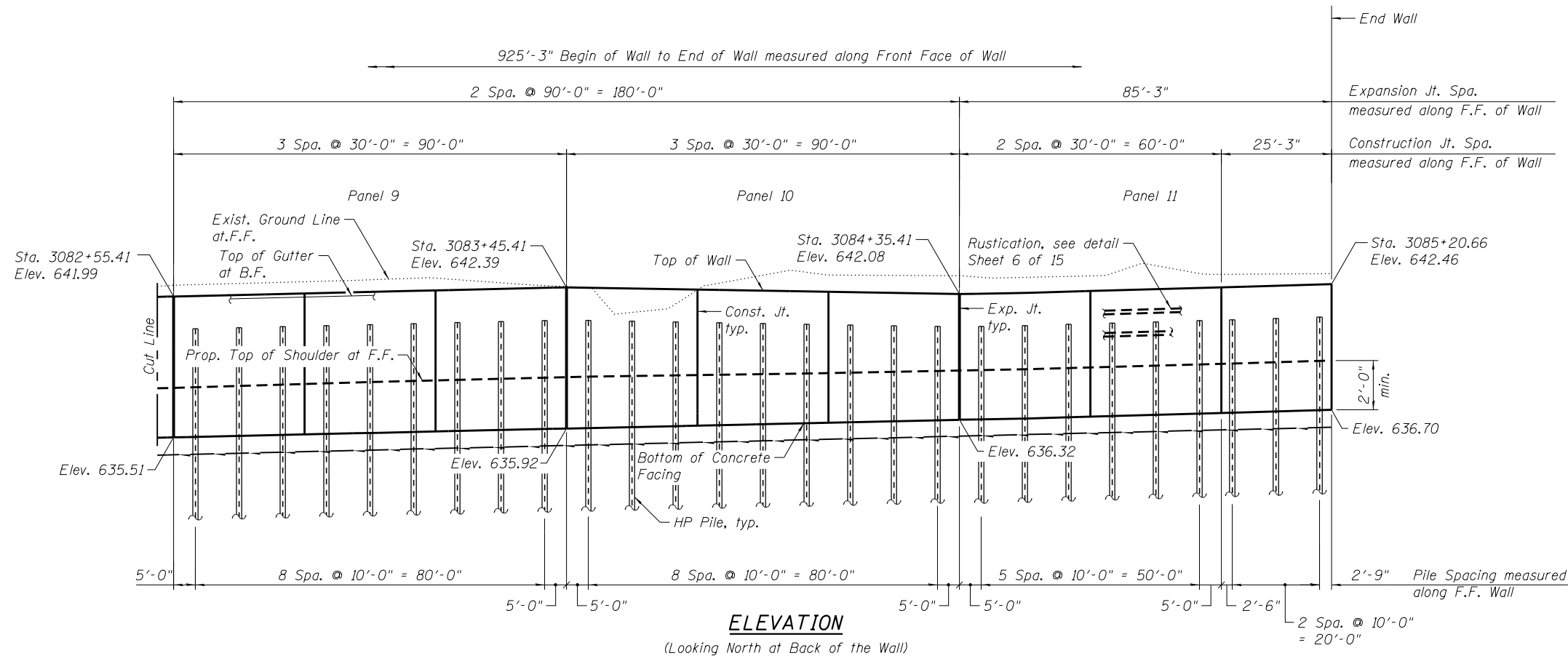
ELEVATION
(Looking North at Back of the Wall)



Notes:
1. For continuation, see Sheet 3 of 15.
2. For Legend and Notes, see Sheet 1 of 15.

PLAN

HNTB	USER NAME = ikolite	DESIGNED MRI	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RETAINING WALL 1 PLAN & ELEVATION - 2 STRUCTURE NO. 016-2033	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 0.16667' / in.	CHECKED PCA	REVISED			90	(1517 & 1415) R-3	COOK	557	372
	PLOT DATE = 6/6/2016	DRAWN LK	REVISED			CONTRACT NO. 60Y38				
		DATE 5/6/2016	REVISED			SHEET NO. 2 OF 15 SHEETS				
FILE NAME = p:\hntb\356.hntb.org\PWGreatLakes\Documents\Chicago Projects\58015 1-90\Phase II\Contract 2 - Eastbound\Design\CADD\CADD Sheets\016-2033-60Y38-002-GPE02.dgn					ILLINOIS FED. AID PROJECT					



PILE TABLE

Pile No.	Size	Top Elev.	Bott. Elev.	Pile Length	Shear Stud
1	HP14x89	638.02	614.35	23.67	6
2	HP14x89	638.04	614.38	23.67	6
3	HP14x89	638.08	614.41	23.67	6
4	HP14x89	638.12	614.45	23.67	6
5	HP14x89	638.15	614.48	23.67	6
6	HP14x89	638.19	614.52	23.67	6
7	HP14x89	638.22	614.56	23.67	6
8	HP14x89	638.26	614.59	23.67	6
9	HP14x89	638.29	614.63	23.67	6
10	HP14x89	638.33	614.66	23.67	6
11	HP14x89	638.37	614.70	23.67	6
12	HP14x89	638.39	614.73	23.67	6
13	HP14x89	638.42	614.75	23.67	6
14	HP14x89	638.45	614.78	23.67	6
15	HP14x89	638.48	614.82	23.67	6
16	HP14x89	638.52	614.85	23.67	6
17	HP14x89	638.55	614.89	23.67	6
18	HP14x89	638.59	614.92	23.67	6
19	HP14x89	638.63	614.96	23.67	6
20	HP14x89	638.66	615.00	23.67	6
21	HP14x89	638.70	615.03	23.67	6
22	HP14x89	638.73	615.07	23.67	6
23	HP14x89	638.77	615.10	23.67	6
24	HP14x89	638.80	615.13	23.67	6
25	HP14x89	638.82	615.16	23.67	6
26	HP14x89	638.85	615.18	23.67	6
27	HP14x89	638.89	615.22	23.67	6
28	HP14x89	638.92	615.26	23.67	6
29	HP14x89	638.96	615.29	23.67	6
30	HP14x89	638.99	615.33	23.67	6
31	HP14x89	639.03	615.36	23.67	6
32	HP14x89	639.07	615.40	23.67	6
33	HP14x89	639.10	615.43	23.67	6
34	HP14x89	639.14	615.47	23.67	6
35	HP14x89	639.17	615.51	23.67	6
36	HP14x89	639.20	615.53	23.67	6
37	HP14x89	639.23	615.56	23.67	6
38	HP14x89	639.25	615.59	23.67	6
39	HP14x89	639.29	615.62	23.67	6
40	HP14x89	639.33	615.66	23.67	6
41	HP14x89	639.36	615.69	23.67	6
42	HP14x89	639.40	615.73	23.67	6
43	HP14x89	639.43	615.77	23.67	6
44	HP14x89	639.47	615.80	23.67	6
45	HP14x89	639.50	615.84	23.67	6
46	HP14x89	639.54	615.87	23.67	6
47	HP14x89	639.58	615.91	23.67	6
48	HP14x89	639.60	615.94	23.67	6
49	HP14x89	639.63	615.96	23.67	6
50	HP14x89	639.66	615.99	23.67	6
51	HP14x89	639.69	616.03	23.67	6
52	HP14x89	639.73	616.06	23.67	6
53	HP14x89	639.76	616.10	23.67	6
54	HP14x89	639.80	616.13	23.67	6
55	HP14x89	639.84	616.17	23.67	6

Notes:
1. For Legend and Notes, see Sheet 1 of 15.



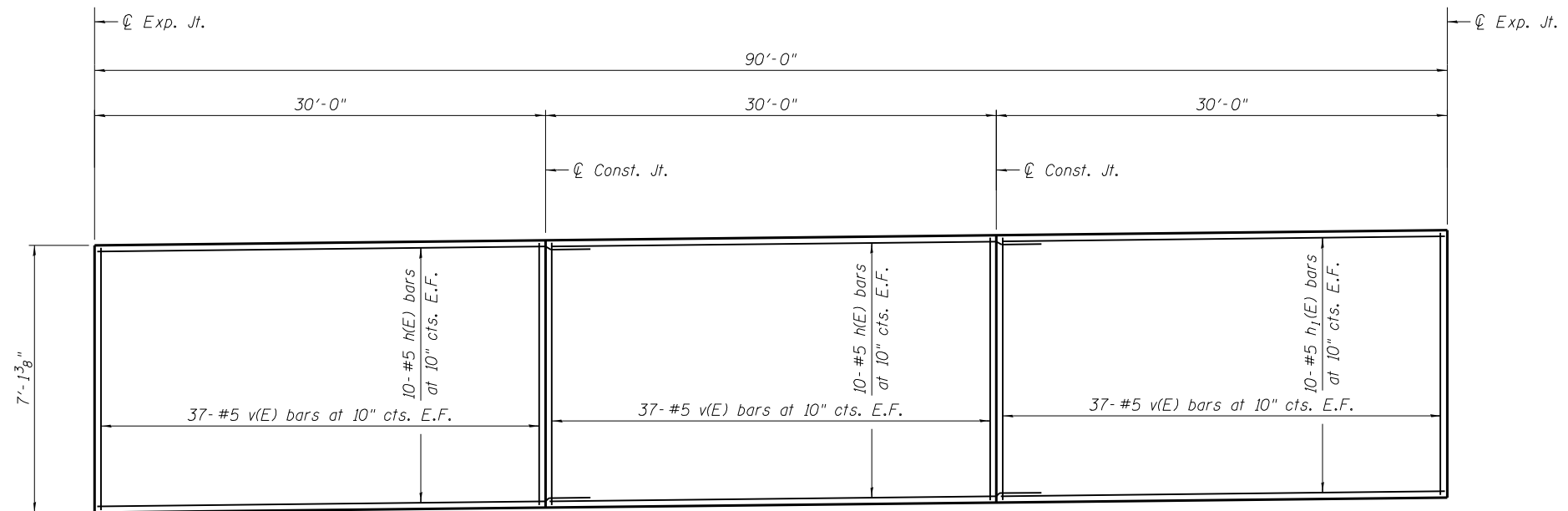
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PLOT SCALE = 0.16667' / in.	CHECKED PCA	REVISED
PLOT DATE = 6/6/2016	DRAWN LK	REVISED
	DATE 5/6/2016	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

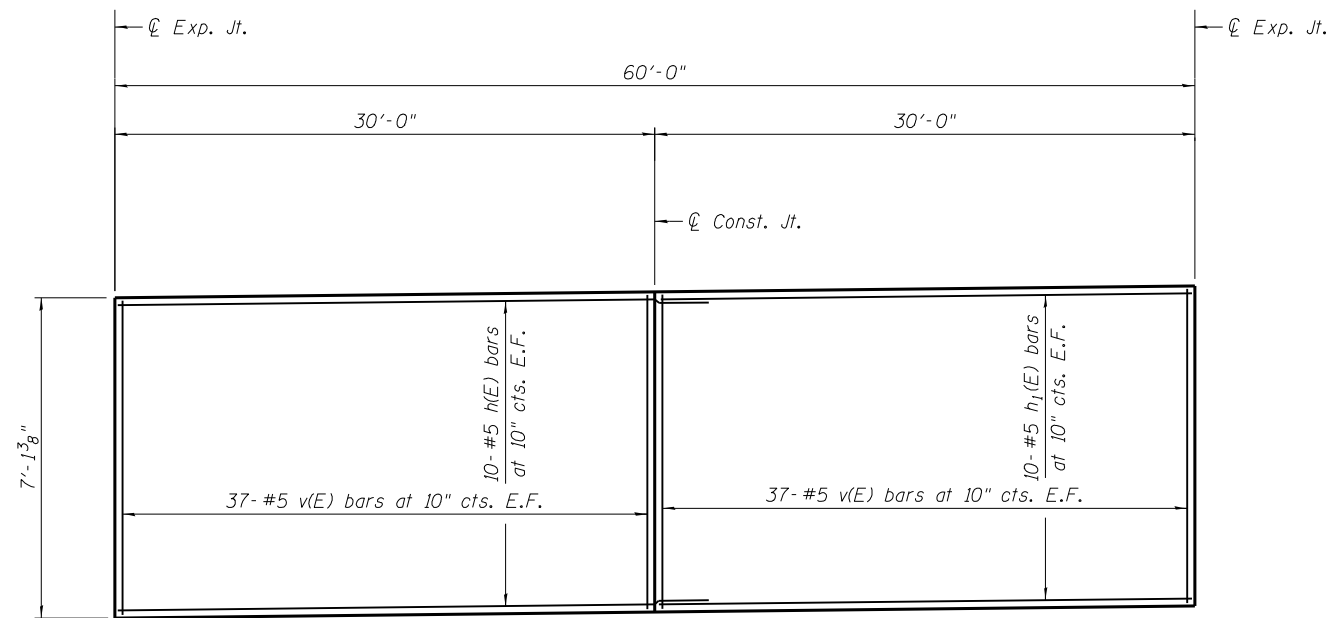
**RETAINING WALL 1 PLAN & ELEVATION - 3
STRUCTURE NO. 016-2033**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	373
CONTRACT NO. 60Y38				

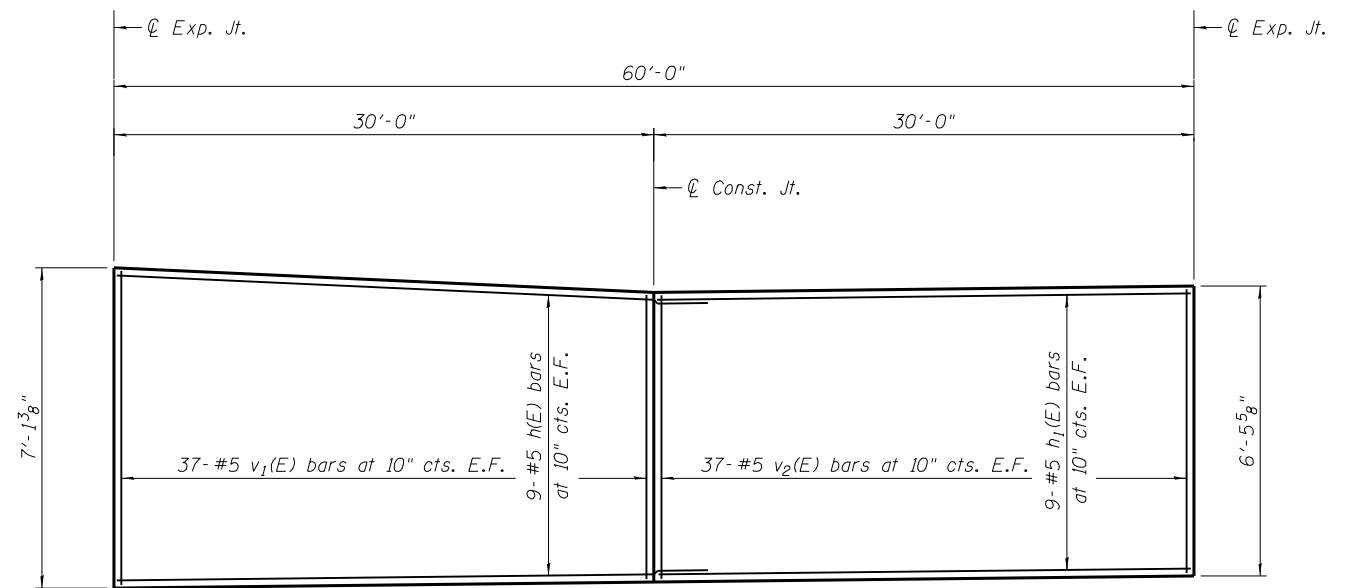
SHEET NO. 3 OF 15 SHEETS



PANEL 1 THRU PANEL 5 ELEVATION



PANEL 6 ELEVATION



PANEL 7 ELEVATION

MINIMUM BAR LAP
#5 bar = 3'-3"

- Notes:
1. Panel types shown looking North at Back of the Wall.
 2. Reinforcement spacing shown is to be used as maximum spacing.
 3. For location of panels, see sheets 1 thru 3 of 15.
 4. For panel details and Bill of Material, see sheet 6 of 15.



USER NAME = kelite	DESIGNED ITC	REVISED
	CHECKED MRI	REVISED
PLOT SCALE = 0.00333' / in.	DRAWN LK	REVISED
PLOT DATE = 5/2/2016	DATE 5/6/2016	REVISED

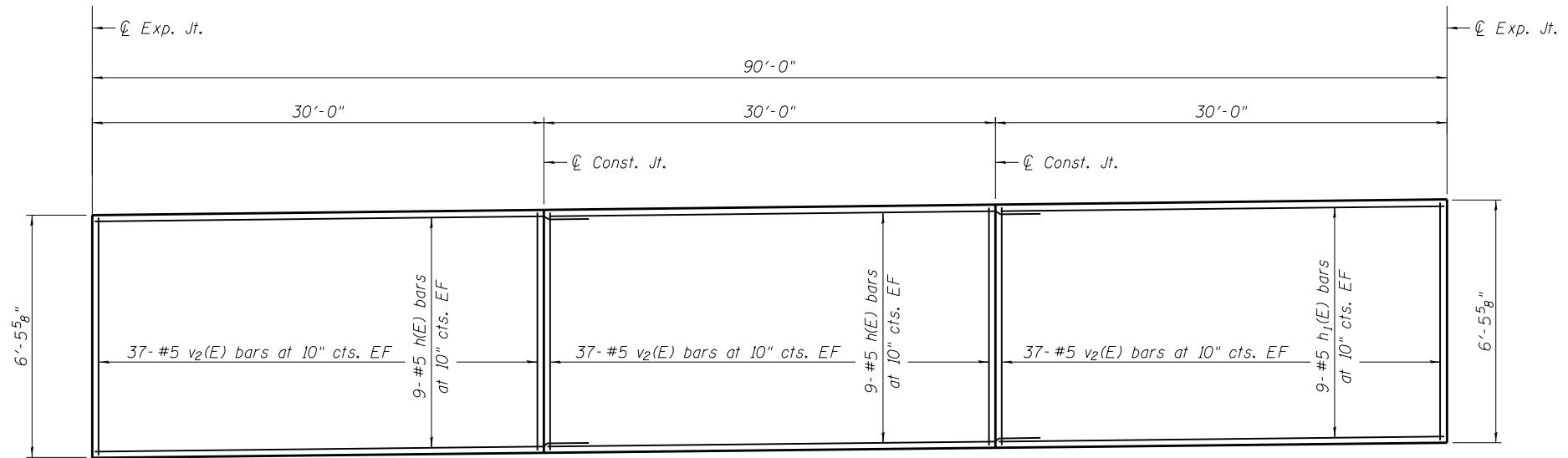
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RETAINING WALL 1 DETAILS - 1
STRUCTURE NO. 016-2033**

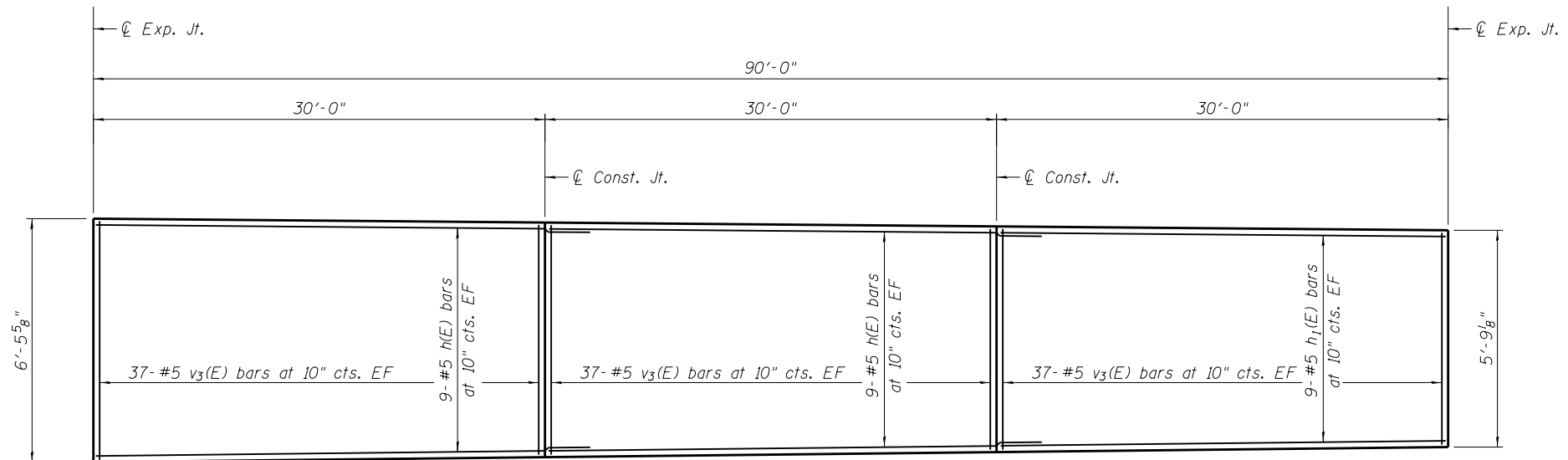
SHEET NO. 4 OF 15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	374
CONTRACT NO. 60Y38				

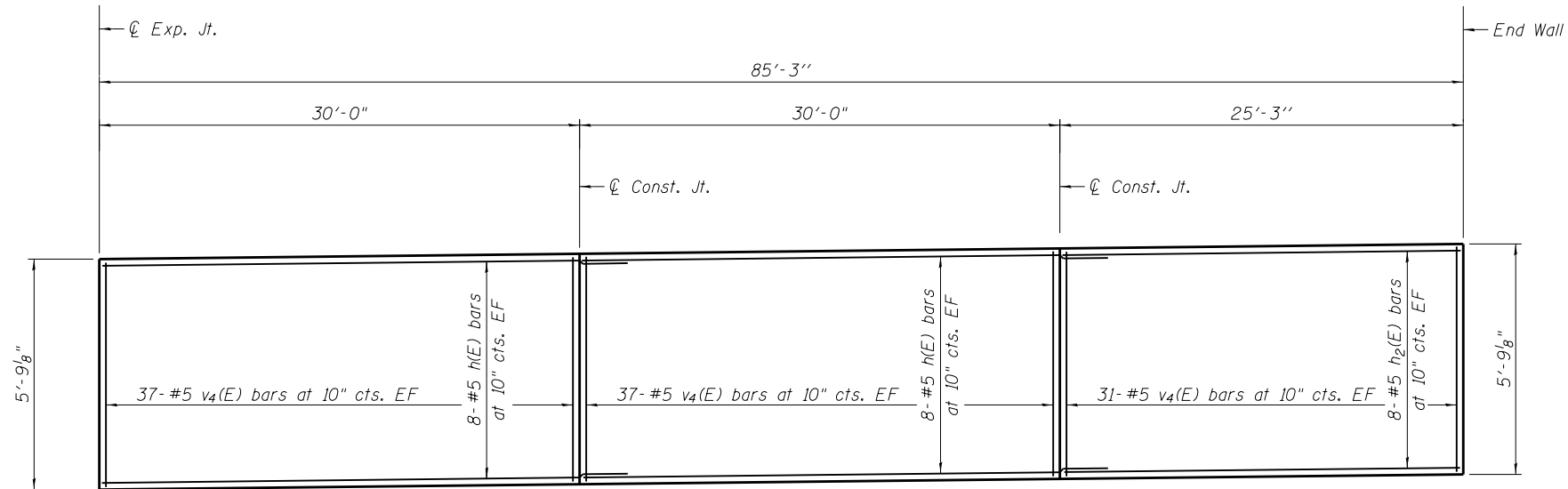
ILLINOIS FED. AID PROJECT



PANEL 8 AND 9 ELEVATION



PANEL 10 ELEVATION



PANEL 11 ELEVATION

PILE TABLE

Pile No.	Size	Top Elev.	Bott. Elev.	Pile Length	Shear Stud
56	HP14x89	639.87	616.21	23.67	6
57	HP14x89	639.91	616.24	23.67	6
58	HP14x89	639.94	616.28	23.67	6
59	HP14x89	639.98	616.31	23.67	6
60	HP14x89	640.01	616.34	23.67	6
61	HP14x89	640.03	616.36	23.67	6
62	HP14x89	640.06	616.40	23.67	6
63	HP14x89	640.10	616.43	23.67	6
64	HP14x89	640.14	616.47	23.67	6
65	HP14x89	640.17	616.51	23.67	6
66	HP14x89	640.21	616.54	23.67	6
67	HP14x89	640.24	616.58	23.67	6
68	HP14x89	640.28	616.61	23.67	6
69	HP14x89	640.25	616.59	23.67	6
70	HP14x89	640.12	616.45	23.67	6
71	HP14x89	639.98	616.32	23.67	6
72	HP14x89	639.85	616.18	23.67	5
73	HP14x89	639.80	616.13	23.67	5
74	HP14x89	639.83	616.17	23.67	5
75	HP14x89	639.87	616.20	23.67	5
76	HP14x89	639.91	616.24	23.67	5
77	HP14x89	639.94	617.19	22.75	5
78	HP14x89	639.98	617.23	22.75	5
79	HP14x89	640.03	617.28	22.75	5
80	HP14x89	640.07	617.32	22.75	5
81	HP14x89	640.12	617.37	22.75	5
82	HP14x89	640.16	617.41	22.75	5
83	HP14x89	640.21	617.46	22.75	5
84	HP14x89	640.25	617.50	22.75	5
85	HP14x89	640.30	617.55	22.75	5
86	HP14x89	640.34	617.59	22.75	5
87	HP14x89	640.39	617.64	22.75	5
88	HP14x89	640.43	617.68	22.75	5
89	HP14x89	640.48	617.73	22.75	5
90	HP14x89	640.52	617.77	22.75	5
91	HP14x89	640.56	617.81	22.75	5
92	HP14x89	640.61	617.86	22.75	5
93	HP14x89	640.65	617.90	22.75	5
94	HP14x89	640.70	617.95	22.75	5
95	HP14x89	640.70	617.95	22.75	5
96	HP14x89	640.67	617.92	22.75	5
97	HP14x89	640.64	617.89	22.75	5
98	HP14x89	640.60	617.85	22.75	5
99	HP14x89	640.57	617.82	22.75	5
100	HP14x89	640.53	617.78	22.75	5
101	HP14x89	640.50	617.75	22.75	5
102	HP14x89	640.46	617.71	22.75	5
103	HP14x89	640.43	617.68	22.75	5
104	HP14x89	640.43	617.68	22.75	5
105	HP14x89	640.48	617.73	22.75	5
106	HP14x89	640.52	617.77	22.75	5
107	HP14x89	640.57	617.82	22.75	5
108	HP14x89	640.61	617.86	22.75	5
109	HP14x89	640.66	617.91	22.75	5
110	HP14x89	640.69	617.94	22.75	5
111	HP14x89	640.74	617.99	22.75	5
112	HP14x89	640.78	618.03	22.75	5

Notes:
1. For Notes, see Sheet 4 of 15.



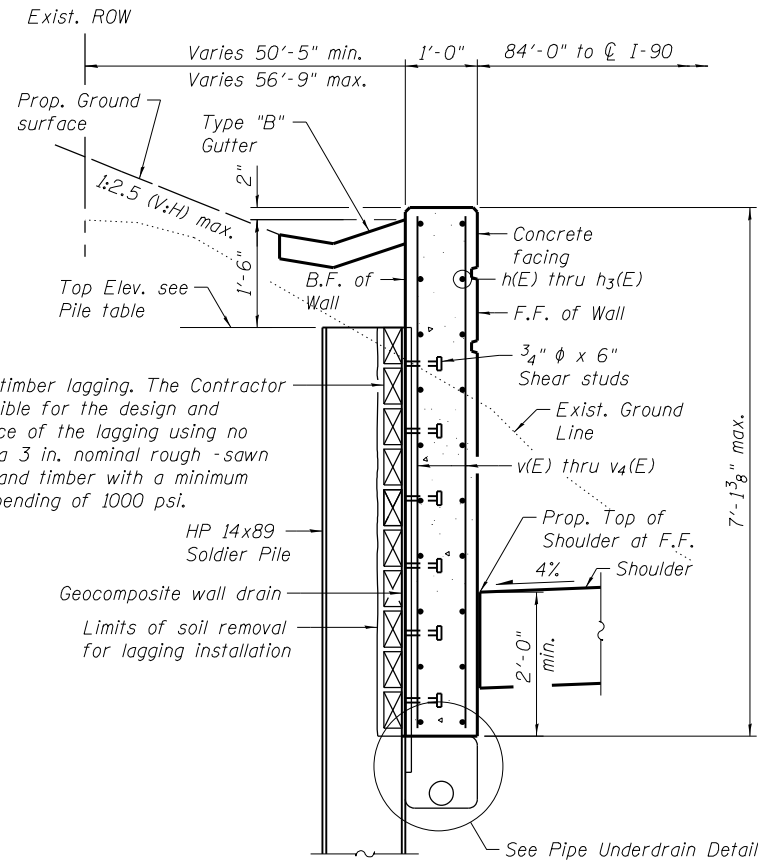
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CHECKED MRI	REVISED	
PLOT SCALE = 0:2.00000' = 1"	DRAWN LK	REVISED
PLOT DATE = 6/6/2016	DATE 5/6/2016	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

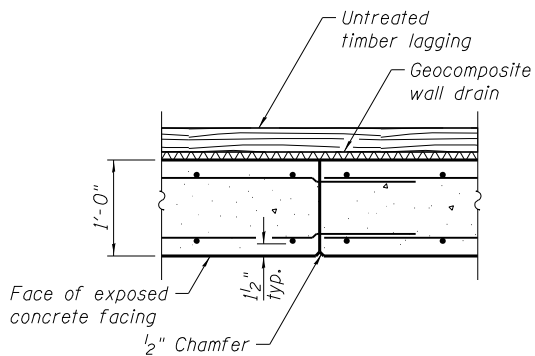
**RETAINING WALL 1 DETAILS - 2
STRUCTURE NO. 016-2033**

SHEET NO. 5 OF 15 SHEETS

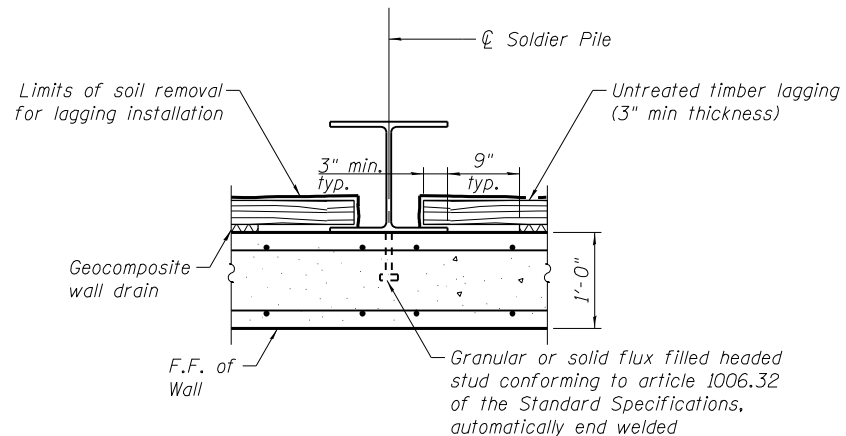
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90	(1517 & 1415) R-3	COOK	557	375
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				



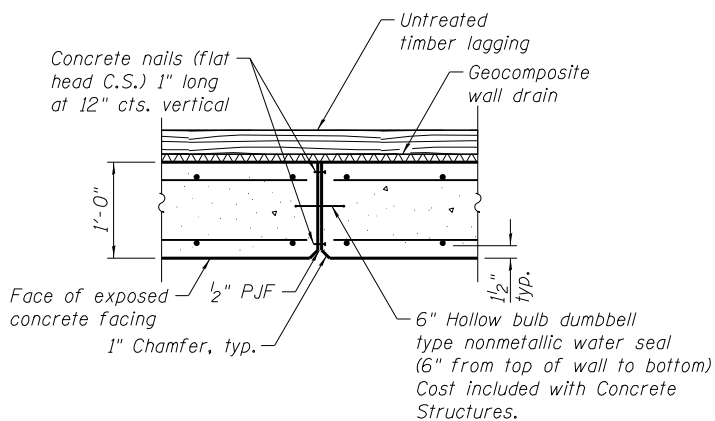
SECTION THRU DRIVEN SOLDIER PILE WALL



CONSTRUCTION JOINT



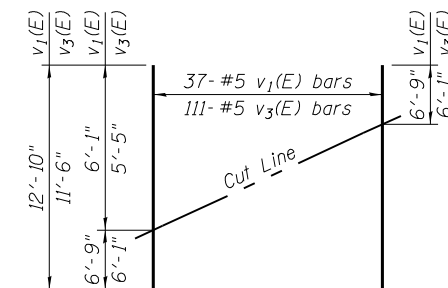
SECTION THRU SOLDIER PILE



EXPANSION JOINT

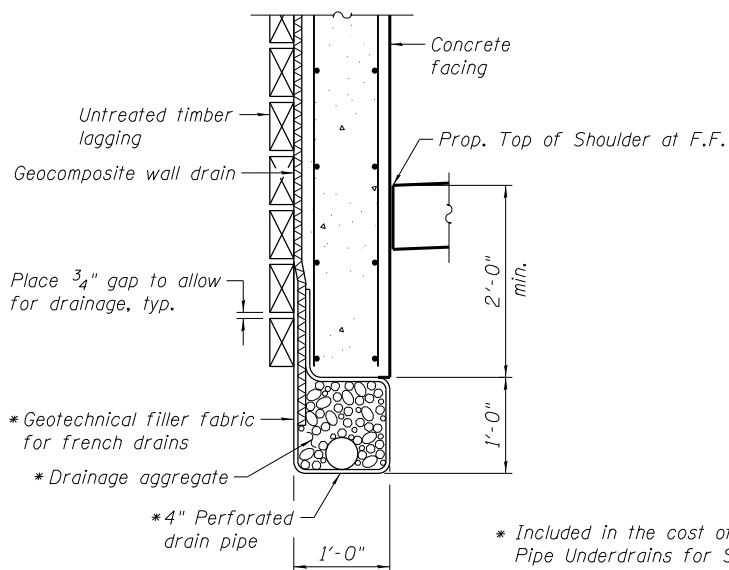
WALL 1 BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
h(E)	378	#5	33'-1"	————	
h1(E)	192	#5	29'-9"	————	
h2(E)	16	#5	24'-11"	————	
v(E)	1258	#5	6'-9"	————	
v1(E)	37	#5	12'-10"	————	
v2(E)	518	#5	6'-1"	————	
v3(E)	111	#5	11'-6"	————	
v4(E)	210	#5	5'-5"	————	
Reinforcement Bars, Epoxy Coated				Pound	34,580
Concrete Structures				Cu Yd	230.9

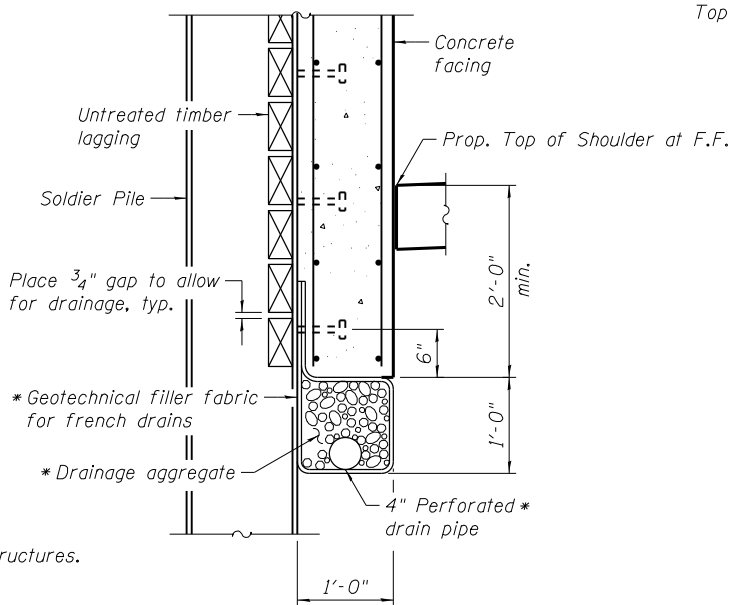


FIELD CUTTING DIAGRAM

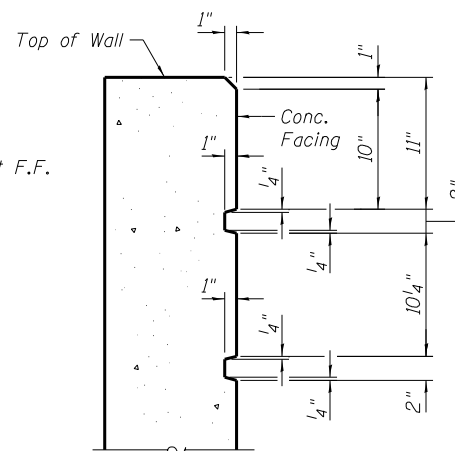
Order v₁(E) and v₃(E) bars full length. Cut as shown and use remainder of bars in opposite face.



BETWEEN SOLDIER PILES



AT SOLDIER PILES



RUSTICATION DETAIL AT TOP OF WALL

- Notes:
- For panel reinforcement, see Sheets 4 and 5 of 15.
 - Slope underdrain to outlet to designated drain locations.
 - Protective coat to be applied to all exposed concrete.



USER NAME = kcolito	DESIGNED ITC	REVISED
PLOT SCALE = 0:0.999998 'ft' / in.	CHECKED MRI	REVISED
PLOT DATE = 5/2/2016	DRAWN LK	REVISED
	DATE 5/6/2016	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL 1 DETAILS - 3
STRUCTURE NO. 016-2033

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	376
CONTRACT NO. 60Y38				

SHEET NO. 6 OF 15 SHEETS

ILLINOIS FED. AID PROJECT



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 12/11/13

ROUTE -- DESCRIPTION Drainage Area Between Harlem Avenue & Foster Avenue LOGGED BY TZ

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hand Auger HAMMER TYPE Manual

STRUCT. NO. Station	D E P T H	B L O W S	U C S Q _u	M O I S T	Surface Water Elev.	
					n/a ft	n/a ft
BORING NO. RWB-48 Station 3074+00 Offset 86.00ft Right Ground Surface Elev. 639.10	4	8	2.5	15	CLAY LOAM-brown & gray-very stiff to hard (Fill)	
	9	P				
635.10	12	14	4.0	18	CLAY-brown & gray-medium stiff to very stiff	
	17	B				
629.10	11	4	1.0	21	CLAY LOAM-gray-very stiff	
	4	B				
becoming gray @ -7.25'	0.8	5	1.1	21	CLAY-gray-stiff to very stiff	
	4	B				
End Of Boring @ -10.0'. Boring backfilled with cuttings.	6	11	1.1	18	CLAY-gray-stiff to very stiff	
	15	B				
	16	15	3.8	B		

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)



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/4/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U C S Q _u	M O I S T	Surface Water Elev.	
					n/a ft	n/a ft
BORING NO. RWB-48A Station 3075+96 Offset 62.70ft Right Ground Surface Elev. 634.90	3	4		9	12.0" ASPHALT	
	4					
633.90	3	4		9	CRUSHED STONE-loose (Fill)	
	4					
631.90	3	4		9	CLAY-gray-stiff to very stiff	
	3	1.1	22			
609.90	4	3	1.1	22	CLAY-gray-stiff to very stiff	
	4	B				
End Of Boring @ -25.0'. Boring backfilled with cuttings.	5	8	1.9	22	CLAY-gray-stiff to very stiff	
	8	B				
	5	7	2.3	22	CLAY-gray-stiff to very stiff	
	9	B				
	10	9	2.0	20	CLAY-gray-stiff to very stiff	
	11	P				
	5	9	2.1	21	CLAY-gray-stiff to very stiff	
	11	B				
	6	8	1.7	16	CLAY-gray-stiff to very stiff	
	11	B				

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)



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 12/11/13

ROUTE -- DESCRIPTION Drainage Area Between Harlem Avenue & Foster Avenue LOGGED BY TZ

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hand Auger HAMMER TYPE Manual

STRUCT. NO. Station	D E P T H	B L O W S	U C S Q _u	M O I S T	Surface Water Elev.	
					n/a ft	n/a ft
BORING NO. RWB-49 Station 3075+86 Offset 77.40ft Right Ground Surface Elev. 636.30	4	5	2.3	18	6.0" TOPSOIL-black	
	8	B				
635.80	4	5	2.3	18	CLAY LOAM-brown-very stiff (Fill)	
	8	B				
634.30	6	9	2.3	20	CLAY-brown & gray-very stiff	
	13	B				
632.30	6	9	2.3	20	CLAY LOAM-gray-very stiff	
	13	B				
630.30	15	17	3.8	13	CLAY LOAM-gray-very stiff	
	19	B				
630.30	10	10	4.3	18	CLAY-gray-hard	
	15	B				
626.30	10	13	4.7	19	CLAY-gray-hard	
	19	B				
End Of Boring @ -10.0'. Boring backfilled with cuttings.	10	13	4.7	19	CLAY-gray-hard	
	19	B				

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)

Notes:
1. For location of soil boring, see Sheet 1 of 15.



USER NAME = kkalite	DESIGNED --	REVISED
PLOT SCALE = 0.1" = 1'	CHECKED --	REVISED
PLOT DATE = 5/2/2016	DRAWN LK	REVISED
	DATE 5/6/2016	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS - 1
STRUCTURE NO. 016-2033

SHEET NO. 7 OF 15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	377
CONTRACT NO. 60Y38				



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/4/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH (ft)	BULGE (ft)	UCS (tsf)	MATERIAL	DEPTH (ft)	BULGE (ft)	UCS (tsf)	MATERIAL
	0			12.0" ASPHALT				
	1			6.0" CRUSHED STONE CLAY-gray-very stiff				
	2							
	3							
	4			CLAY-gray-stiff				
	5							
	6							
	7							
	8							
	9			LOAM-gray-medium dense				
	10							
	11			CLAY-gray-stiff				
	12							
	13							
	14							
	15							
	16							
	17							
	18							
	19							
	20							
	21							
	22							
	23							
	24							
	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)



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 12/11/13

ROUTE -- DESCRIPTION Drainage Area Between Harlem Avenue & Foster Avenue LOGGED BY TZ

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hand Auger HAMMER TYPE Manual

STRUCT. NO.	DEPTH (ft)	BULGE (ft)	UCS (tsf)	MATERIAL	DEPTH (ft)	BULGE (ft)	UCS (tsf)	MATERIAL
	0			CLAY LOAM-brown & gray-very stiff to hard (Fill)				
	1			CLAY LOAM-brown & gray-very stiff to hard (Fill)				
	2							
	3							
	4							
	5							
	6			CLAY-gray-very stiff to hard				
	7							
	8							
	9							
	10							
	11							
	12			CLAY-gray-very stiff to hard				
	13							
	14							
	15							
	16			CLAY-gray-very stiff to hard				
	17							
	18							
	19			CLAY-gray-very stiff to hard				
	20							
	21			CLAY-gray-very stiff to hard				
	22							
	23							
	24							
	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)



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/4/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH (ft)	BULGE (ft)	UCS (tsf)	MATERIAL	DEPTH (ft)	BULGE (ft)	UCS (tsf)	MATERIAL
	0			9.0" ASPHALT				
	1			15.0" CRUSHED STONE-loose (Fill)				
	2							
	3							
	4			CLAY-gray-stiff				
	5							
	6							
	7							
	8							
	9			CLAY-gray-stiff				
	10							
	11							
	12							
	13			CLAY-gray-stiff				
	14							
	15							
	16			CLAY-gray-stiff				
	17							
	18			CLAY-gray-stiff				
	19							
	20							
	21			CLAY-gray-stiff				
	22							
	23			CLAY-gray-stiff				
	24							
	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)

Notes:
1. For location of soil boring, see Sheet 1 of 15.



USER NAME = kkalito	DESIGNED --	REVISED
PLOT SCALE = 0'1" = 1'	CHECKED --	REVISED
PLOT DATE = 5/2/2016	DRAWN LK	REVISED
	DATE 5/6/2016	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS - 2
STRUCTURE NO. 016-2033

SHEET NO. 8 OF 15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	378
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 12/11/13

ROUTE -- DESCRIPTION Drainage Area Between Harlem Avenue & Foster Avenue LOGGED BY TZ

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hand Auger HAMMER TYPE Manual

STRUCT. NO.	B L O W S	U C S	M O I S T	Groundwater Elev.:			
				Surface Water Elev. n/a ft	Stream Bed Elev. n/a ft	First Encounter Dry ft	Upon Completion Dry ft
BORING NO. RWB-51 Station 3078+33							
Offset 83.60ft Right							
Ground Surface Elev. 639.00	ft	(ft)	(/6")	(tsf)	(%)		
6.0' TOPSOIL-black	3						30
CLAY LOAM-gray-hard (Fill)	4	4.0					19
	5	P					
	6						
CLAY-gray-stiff to hard	9						
	10	3.7					20
	12	B					
	10						
	10	2.2					20
	12	B					
	9						
	10	9.9					17
	10	B					
	12						
	20	1.0					21
	20	B					
End Of Boring @ -10.0'. Boring backfilled with cuttings.							

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)

Z:\PROJECTS\2013\12245 INTB.149 FROM 1:100 TO HARLEM AVENUE (P.TB. 1624001)12245 BORING LOGS\12245 LOG.GPJ 27/14



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/4/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	B L O W S	U C S	M O I S T	Groundwater Elev.:			
				Surface Water Elev. n/a ft	Stream Bed Elev. n/a ft	First Encounter 634.6 ft	Upon Completion 623.1 ft
BORING NO. RWB-51A Station 3078+32							
Offset 63.90ft Right							
Ground Surface Elev. 636.10	ft	(ft)	(/6")	(tsf)	(%)		
7.0' ASPHALT	4						
11.0' CLAYEY SAND & GRAVEL-brown	4						
CLAY-gray-stiff	5						
	6						
	3						
	3	1.2					22
	5	B					
	5						
	5	1.2					18
	7	B					
	4						
	6	1.3					21
	6	B					
	10						
	4						
	7	1.6					20
	7	B					
	4						
	6	1.4					21
	7	B					
	15						
	5						
	7	1.6					20
	8	B					
	5						
	7	1.9					20
	8	B					
	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)

Z:\PROJECTS\2013\12245 INTB.149 FROM 1:100 TO HARLEM AVENUE (P.TB. 1624001)12245 BORING LOGS\12245 LOG.GPJ 27/14



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 12/11/13

ROUTE -- DESCRIPTION Drainage Area Between Harlem Avenue & Foster Avenue LOGGED BY TZ

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hand Auger HAMMER TYPE Manual

STRUCT. NO.	B L O W S	U C S	M O I S T	Groundwater Elev.:			
				Surface Water Elev. n/a ft	Stream Bed Elev. n/a ft	First Encounter Dry ft	Upon Completion Dry ft
BORING NO. RWB-52 Station 3079+13							
Offset 82.20ft Right							
Ground Surface Elev. 639.20	ft	(ft)	(/6")	(tsf)	(%)		
3.0' TOPSOIL-black	5						36
CLAY LOAM-brown, gray & spotted black-stiff (Fill)	5	1.9					19
	6	B					
	6						
CLAY-gray-stiff to hard	6						
	10	3.6					20
	12	B					
	8						
	10	1.9					22
	12	B					
	8						
	11	11.7					17
	16	B					
	17						
	15	1.0					21
	19	B					
End Of Boring @ -10.0'. Boring backfilled with cuttings.							

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)

Z:\PROJECTS\2013\12245 INTB.149 FROM 1:100 TO HARLEM AVENUE (P.TB. 1624001)12245 BORING LOGS\12245 LOG.GPJ 27/14

Notes:
1. For location of soil boring, see Sheet 1 and 2 of 15.



USER NAME = lkelite	DESIGNED --	REVISED
PLOT SCALE = 0:1' = 1"	CHECKED --	REVISED
PLOT DATE = 5/2/2016	DRAWN LK	REVISED
	DATE 5/6/2016	REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS - 3
STRUCTURE NO. 016-2033

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	379
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				

SHEET NO. 9 OF 15 SHEETS



SOIL BORING LOG

GSI Job No. 12245
Page 1 of 2
Date 10/8/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW
SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U C S Q u	M O I S T	Surface Water Elev.		D E P T H	B L O W S	U C S Q u	M O I S T
					n/a	ft				
BORING NO. RWB-52A Station 3079+11 Offset 16.80ft Right Ground Surface Elev. 636.70										
7.0' ASPHALT		636.12								
5.0' CRUSHED STONE		635.70								
SANDY CLAY LOAM with Gravel-brown & gray-loose (Fill)		3								
		4						1.0	19	
		4						B		
CLAY-gray-stiff		633.70								
		4						5		
		4	1.5	22				6	1.0	19
		6	B					8	B	
		-5						10	2.3	15
		5						12	B	
		6	1.5	21				16	B	
		8	B					16	B	
CLAY LOAM-gray-stiff		628.70								
		5						4		
		6	1.8	15				5	1.5	13
		9	B					9	P	
		-10						30		
SILTY LOAM-gray-medium dense		626.20								
		8						7		
		9		14				10	1.9	15
		10						15	B	
SILTY CLAY LOAM-gray-medium dense		623.70								
		6						9		
		6	2.0	16				12	2.3	14
		7	P					14	B	
		-15						-35		
CLAY-gray-stiff		621.20								
		3						9		
		5	1.8	23				12	2.3	14
		8	P					14	B	
		4						12	2.3	14
		6	1.9	22				14	B	
		8	B					-40		
		-20						-60		

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

GSI Job No. 12245
Page 2 of 2
Date 10/8/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW
SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U C S Q u	M O I S T	Surface Water Elev.		D E P T H	B L O W S	U C S Q u	M O I S T
					n/a	ft				
BORING NO. RWB-52A Station 3079+11 Offset 16.80ft Right Ground Surface Elev. 636.70										
CLAY LOAM-gray-stiff to very stiff (continued)										
		6						6		
		8						8	1.0	19
		5						10		
		6	1.0	19				12	2.3	15
		16	B					16	B	
		-45						-50		
End Of Boring @ -45.0'. Boring backfilled with cuttings.										

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

GSI Job No. 12245
Page 1 of 1
Date 12/11/13

ROUTE -- DESCRIPTION Drainage Area Between Harlem Avenue & Foster Avenue LOGGED BY TZ
SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hand Auger HAMMER TYPE Manual

STRUCT. NO. Station	D E P T H	B L O W S	U C S Q u	M O I S T	Surface Water Elev.		D E P T H	B L O W S	U C S Q u	M O I S T
					n/a	ft				
BORING NO. RWB-53 Station 3079+86 Offset 84.30ft Right Ground Surface Elev. 640.60										
6.0" TOPSOIL-black		640.10						4		29
CLAY LOAM-brown & gray-very stiff (Fill)		638.60						5	2.8	18
		6						6	B	
CLAY-gray-stiff to hard		636.60						8		
		12						12	4.7	20
		18						18	B	
		9						9		
		9	1.7	22				13	B	
		-5						8		
		10	1.4	23				10	1.4	23
		14	B					8		
		10	2.1	23				10	2.1	23
		12	B					12	B	
		630.60						-10		
End Of Boring @ -10.0'. Boring backfilled with cuttings.										

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)

Notes:
1. For location of soil boring, see Sheet 2 of 15.



USER NAME = kkalite	DESIGNED --	REVISED
CHECKED --		REVISED
PLOT SCALE = 0"=1' / in.	DRAWN LK	REVISED
PLOT DATE = 5/2/2016	DATE 5/6/2016	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS - 4
STRUCTURE NO. 016-2033

SHEET NO. 10 OF 15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	380
CONTRACT NO. 60Y38			ILLINOIS FED. AID PROJECT	



SOIL BORING LOG

GSI Job No. 12245
Page 1 of 1
Date 10/4/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW
SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	Station	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)
		0				Surface Water Elev. n/a ft				
		0				Stream Bed Elev. n/a ft				
BORING NO. RWB-53A	Station 3079+84					Groundwater Elev.: First Encounter 635.5 ft				
	Offset 63.90ft Right					Upon Completion 617.0 ft				
	Ground Surface Elev. 637.00 ft					After Hrs.				
	7.0" ASPHALT	636.42				CLAY-gray-stiff (continued)				
	17.0" CRUSHED STONE-loose (Fill)	635.00	5				7			
	CLAY-gray-stiff		4				9	1.3	15	
			5				14	B		
			3				9	1.7	22	
			5	1.3	18		12	B		
			6	B			17			
			5				7	1.3	17	
			6	B			10	B		
			3			End Of Boring @ -25.0'. Boring backfilled with cuttings.				
			4	1.1	23		15			
			6	B			21	2.4	18	
			4				21	B		
			5	1.3	22		23	B		
			7	P			10			
			10				10	2.4	21	
			3				15	B		
			5	1.2	22		10			
			8	B			15	B		
			5				629.90	-10		
			7	1.5	22					
			9	B						
			15							
			5							
			5	1.3	17					
			9	B						
			5							
			8	1.9	16					
			9	B						

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

GSI Job No. 12245
Page 1 of 1
Date 12/12/13

ROUTE -- DESCRIPTION Drainage Area Between Harlem Avenue & Foster Avenue LOGGED BY TZ
SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hand Auger HAMMER TYPE Manual

STRUCT. NO.	Station	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)
		0				Surface Water Elev. n/a ft				
		0				Stream Bed Elev. n/a ft				
BORING NO. RWB-54	Station 3080+65					Groundwater Elev.: First Encounter Dry ft				
	Offset 81.50ft Right					Upon Completion Dry ft				
	Ground Surface Elev. 639.90 ft					After Hrs.				
	12.0" TOPSOIL-black	638.90								
	CLAY LOAM-dark brown & gray-very stiff (Fill)	637.90	4				5	3.0	18	
	CLAY-gray-stiff to very stiff		8				8	P		
			9	1.7	22		9			
			12	B			12			
			17				17			
			14				14			
			19	2.4	18		19	2.4	18	
			21	B			21	B		
			15				15			
			21	2.4	21		21	2.4	21	
			23	B			23	B		
			10				10			
			10	2.4	21		10	2.4	21	
			15	B			15	B		
			629.90	-10						
						End Of Boring @ -10.0'. Boring backfilled with cuttings.				

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

GSI Job No. 12245
Page 1 of 1
Date 10/7/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW
SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	Station	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)
		0				Surface Water Elev. n/a ft				
		0				Stream Bed Elev. n/a ft				
BORING NO. RWB-54A	Station 3080+66					Groundwater Elev.: First Encounter 636.2 ft				
	Offset 63.90ft Right					Upon Completion Dry ft				
	Ground Surface Elev. 637.70 ft					After Hrs.				
	7.0" ASPHALT	637.12				CLAY-gray-stiff (continued)				
	17.0" CRUSHED STONE-loose (Fill)	635.70	4				6			
	CLAY-gray-stiff		4				8	1.8	21	
			5				9	B		
			3				6			
			3	1.7	22		9	1.7	16	
			5	B			11	B		
			632.20	-25		End Of Boring @ -25.0'. Boring backfilled with cuttings.				
			3							
			4	1.8	11					
			7	B						
			629.70							
			5							
			5	2.0	20					
			10	7	P					
			4							
			5	1.7	18					
			8	B						
			4							
			5	1.7	17					
			9	B						
			15							
			3							
			4	1.8	21					
			7	B						
			6							
			5	1.7	21					
			5	B						

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)

Notes:
1. For location of soil boring, see Sheet 2 of 15.



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1
Date 10/7/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	BORING NO.	Station	Groundwater Elev.:				D E P T H ft	B L O W S Qu	U C S tsf	M O I S T %
			Surface Water Elev.	Stream Bed Elev.	First Encounter	Upon Completion				
	RWB-56A	3082+22	n/a	n/a	636.5	637.42				
		65.30ft Right	Dry	Dry		637.00				
		Ground Surface Elev.	638.00							
		7.0' ASPHALT								
		5.0' CRUSHED STONE								
		CLAY to CLAY LOAM-gray-stiff to very stiff					3	1.3	21	
							5	B		
					615.00					
		SANDY CLAY LOAM-gray-medium dense					3			
							5	1.5	21	
							7	B		
					613.00					
		End Of Boring @ -25.0'. Boring backfilled with cuttings.								
							3	1.5	16	
							9	B		
							5			
							6	1.9	19	
							9	B		
							-5			
							3	2.0	19	
							8	B		
							5			
							8	2.8	13	
							-12	B		
							3			
							5	1.9	17	
							8	B		
							7			
							7	1.8	14	
							-8	B		
							-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)



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1
Date 12/12/13

ROUTE -- DESCRIPTION Drainage Area Between Harlem Avenue & Foster Avenue LOGGED BY TZ

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hand Auger HAMMER TYPE Manual

STRUCT. NO.	BORING NO.	Station	Groundwater Elev.:				D E P T H ft	B L O W S Qu	U C S tsf	M O I S T %
			Surface Water Elev.	Stream Bed Elev.	First Encounter	Upon Completion				
	RWB-57	3082+92	n/a	n/a						
		82.90ft Right	Dry	Dry						
		Ground Surface Elev.	641.90							
		CLAY-brown & gray-stiff to very stiff					5	2.6	18	
							4	B		
							7			
							10	2.6	20	
							12	B		
							13			
		becoming gray @ -4.0'					17	2.9	19	
							16	B		
							18			
							20	1.4	20	
							20	B		
							17			
							20	2.2	20	
							24	B		
							631.90			
		End Of Boring @ -10.0'. Boring backfilled with cuttings.								
							17			
							20	1.2	20	
							15	B		
							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)



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 2
Date 10/8/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO.	BORING NO.	Station	Groundwater Elev.:				D E P T H ft	B L O W S Qu	U C S tsf	M O I S T %
			Surface Water Elev.	Stream Bed Elev.	First Encounter	Upon Completion				
	RWB-57A	3082+97	n/a	n/a						
		66.70ft Right	Dry To -10.0'							
		Ground Surface Elev.	638.70							
		6.0' ASPHALT								
		6.0' CRUSHED STONE								
		CLAY-gray-stiff to very stiff					3			
							4	2.1	21	
							4	B		
							7			
							11	2.7	20	
							8	B		
							4			
							3	1.2	22	
							4	B		
							3			
							4	1.2	18	
							6	B		
							3			
							4	1.7	20	
							6	B		
							3			
							3	1.3	17	
							5	P		
							3			
							3	1.2	20	
							-15	B		
							3			
							5	1.2	23	
							7	B		
							4			
							6	1.7	22	
							10	B		
							-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)

Notes:
1. For location of soil boring, see Sheets 2 and 3 of 15.



GSI Job No. 12245

SOIL BORING LOG

Page 2 of 2

Date 10/8/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY CW

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH	BULGE	UCS	MOS	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.
Station	ft	(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	ft
					n/a	n/a	Dry To -10.0'	n/a	n/a	n/a	n/a
BORING NO. RWB-57A	Station 3082+97	Offset 66.70ft Right	Ground Surface Elev. 638.70								
CLAY LOAM-gray-very stiff to hard (continued)											
	12										
	16	4.5									
	20	P									
End Of Boring @ -45.0'. Boring backfilled with cuttings.											

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)



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 12/12/13

ROUTE -- DESCRIPTION Drainage Area Between Harlem Avenue & Foster Avenue LOGGED BY TZ

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hand Auger HAMMER TYPE Manual

STRUCT. NO.	DEPTH	BULGE	UCS	MOS	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.
Station	ft	(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	ft
					n/a	n/a	Dry	n/a	n/a	n/a	n/a
BORING NO. RWB-58	Station 3083+71	Offset 81.40ft Right	Ground Surface Elev. 641.90								
3.0" TOPSOIL-black											
	5										
CLAY-brown & gray-stiff to very stiff											
	4	2.4									
	5	B									
	6										
	9	2.9									
	12	B									
becoming gray @ -4.0'											
	6										
	9	1.7									
	9	B									
CLAY-gray-soft (Wet)											
	6										
	10	0.3									
	10	B									
	6										
	7	0.4									
	10	B									
End Of Boring @ -10.0'. Boring backfilled with cuttings.											

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)



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/23/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY JZ

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH	BULGE	UCS	MOS	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.
Station	ft	(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	ft
					n/a	n/a	Dry	n/a	n/a	n/a	n/a
BORING NO. RWB-58A	Station 3083+73	Offset 66.70ft Right	Ground Surface Elev. 639.00								
10.0" ASPHALT											
	639.17										
CRUSHED STONE-medium dense											
	4										
	6	5.9									
	6	B									
CLAY LOAM-gray-hard											
	4										
	636.00										
CLAY-gray-stiff											
	3										
	3	1.3									
	4	B									
End Of Boring @ -25.0'. Boring backfilled with cuttings.											
	3										
	3	1.2									
	4	B									
	2										
	3	1.2									
	5	B									
	3										
	3	1.3									
	5	B									
	2										
	3	1.1									
	4	B									
	2										
	3	1.1									
	4	B									
	3										
	5	1.6									
	7	B									

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)

Notes:
1. For location of soil boring, see Sheet 3 of 15.



USER NAME = kelite	DESIGNED --	REVISED
	CHECKED --	REVISED
PLOT SCALE = 0.1" = 1'	DRAWN LK	REVISED
PLOT DATE = 5/2/2016	DATE 5/6/2016	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS - 8
STRUCTURE NO. 016-2033

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	384
CONTRACT NO. 60Y38				

SHEET NO. 14 OF 15 SHEETS

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

GSI Job No. 12245
Page 1 of 1
Date 10/25/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY JZ
SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. Station	D E P T H	B L O C K S	U C S	M O I S T U R E	Surface Water Elev.		D E P T H	B L O C K S	U C S	M O I S T U R E
					n/a	ft				
BORING NO. RWB-59 Station 3084+49 Offset 65.60ft Right Ground Surface Elev. 639.90										
4.5" ASPHALT										
8.5" CONCRETE										
CLAY-brown-stiff to hard	2						4		1.8	19
	2		3.0	22			7		B	
	2						4			
	5		4.2	21			6		2.7	19
	6		B				9		B	
							614.90		-25	
becoming gray @ -5.5'	3									
	4		6.7	22						
	5		B							
	2									
	3		1.4	22						
	4		B							
	2									
	3		1.4	22						
	4		B							
	3									
	3		1.7	22						
	5		B							
	3									
	4		1.6	21						
	5		B							
	3									
	4		1.2	16						
	5		B							

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

GSI Job No. 12245
Page 1 of 1
Date 10/25/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY JZ
SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. Station	D E P T H	B L O C K S	U C S	M O I S T U R E	Surface Water Elev.		D E P T H	B L O C K S	U C S	M O I S T U R E
					n/a	ft				
BORING NO. RWB-60 Station 3085+28 Offset 64.30ft Right Ground Surface Elev. 640.00										
5.5" ASPHALT										
7.0" CONCRETE										
CLAY-gray-stiff	3						5		1.5	18
	2						6		B	
	2									
	4									
	3		1.2	23						
	3		B							
							615.00		-25	
	2									
	3		1.3	23						
	4		B							
	3									
	4		1.2	23						
	4		B							
	2									
	3		1.6	21						
	4		B							
	3									
	3		1.6	20						
	5		B							
	2									
	3		1.3	17						
	4		B							
	3									
	4		1.2	22						
	5		B							

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)

Notes:
1. For location of soil boring, see Sheet 3 of 15.



USER NAME = kkelite	DESIGNED --	REVISED
PLOT SCALE = 0.1" = 1'	CHECKED --	REVISED
PLOT DATE = 5/2/2016	DRAWN LK	REVISED
	DATE 5/6/2016	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS - 9
STRUCTURE NO. 016-2033

SHEET NO. 15 OF 15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	385
				CONTRACT NO. 60Y38
ILLINOIS FED. AID PROJECT				

Bench Mark: TBM #15 - Square cut SW corner at west end of barrier wall west of Oriole Bridge on south side of I-90 EB, Elev. 638.80

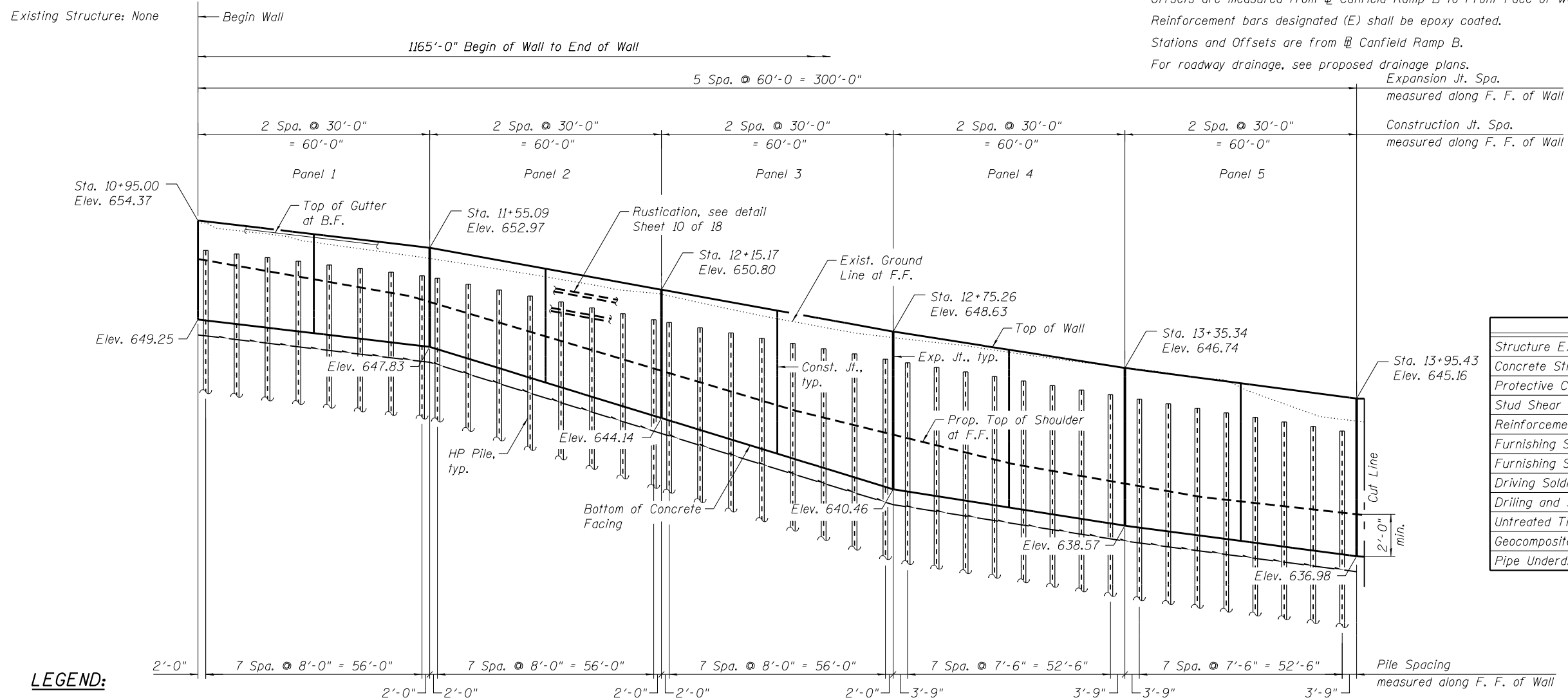
Existing Structure: None

GENERAL NOTES

Offsets are measured from @ Canfield Ramp B to Front Face of wall.
 Reinforcement bars designated (E) shall be epoxy coated.
 Stations and Offsets are from @ Canfield Ramp B.
 For roadway drainage, see proposed drainage plans.

INDEX OF SHEETS

S-1	Retaining Wall 2 Plan & Elevation - 1
S-2	Retaining Wall 2 Plan & Elevation - 2
S-3	Retaining Wall 2 Plan & Elevation - 3
S-4	Retaining Wall 2 Plan & Elevation - 4
S-5	Retaining Wall 2 Details - 1
S-6	Retaining Wall 2 Details - 2
S-7	Retaining Wall 2 Details - 3
S-8	Retaining Wall 2 Details - 4
S-9	Retaining Wall 2 Details - 5
S-10	Retaining Wall 2 Details - 6
S-11	Retaining Wall 2 Details - 7
S-12	Soil Boring Logs - 1
S-13	Soil Boring Logs - 2
S-14	Soil Boring Logs - 3
S-15	Soil Boring Logs - 4
S-16	Soil Boring Logs - 5
S-17	Soil Boring Logs - 6
S-18	Soil Boring Logs - 7



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu Yd	1,090
Concrete Structures	Cu Yd	348.9
Protective Coat	Sq Yd	918
Stud Shear Connectors	Each	1,390
Reinforcement Bars, Epoxy Coated	Pound	50,070
Furnishing Soldier Piles (HP Section)	Foot	4,943
Furnishing Soldier Piles (W Section)	Foot	48
Driving Soldier Piles	Foot	4,943
Drilling and Setting Soldier Piles (in Soil)	Cu Ft	339
Untreated Timber Lagging	Sq Ft	6,733
Geocomposite Wall Drain	Sq Yd	437
Pipe Underdrains for Structures 4"	Foot	1,194

DESIGN STRESSES

FIELD UNITS
 f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 50,000 psi (M270 Grade 50)

DESIGN SPECIFICATIONS

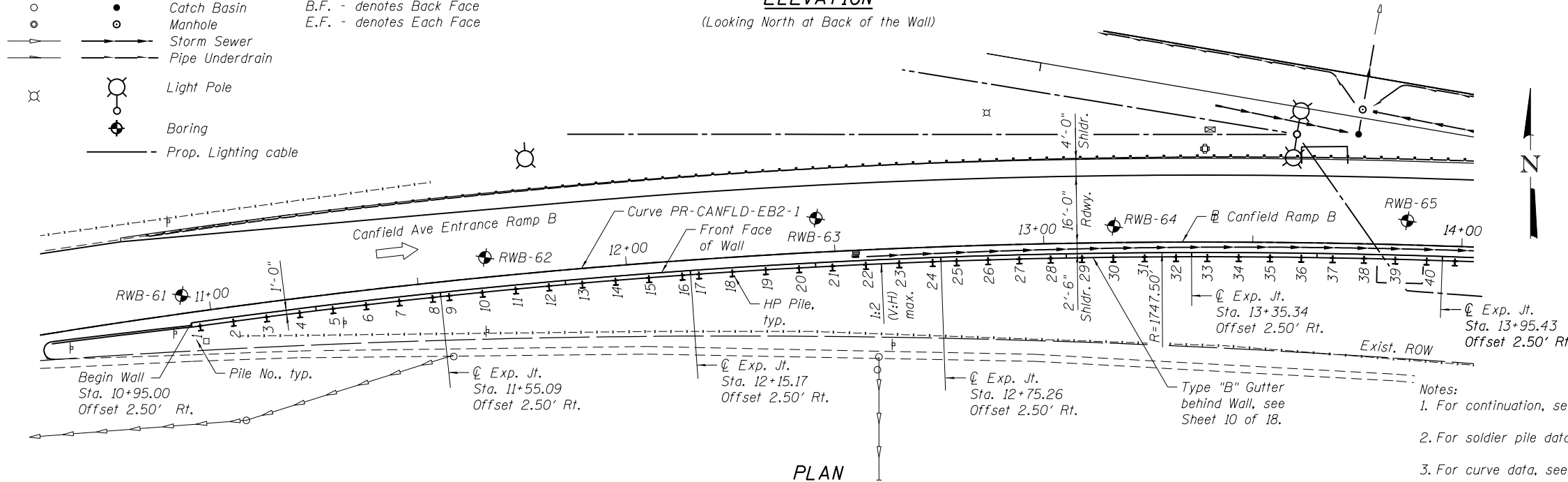
2014 AASHTO LRFD Bridge Design Specifications, 7th Edition, with 2015 Interim Revisions

LEGEND:

Existing	Proposed	Inlet	F.F. - denotes Front Face
○	●	Catch Basin	B.F. - denotes Back Face
○	○	Manhole	E.F. - denotes Each Face
→	→	Storm Sewer	
→	→	Pipe Underdrain	
⊗	⊗	Light Pole	
⊗	⊗	Boring	
---	---	Prop. Lighting cable	

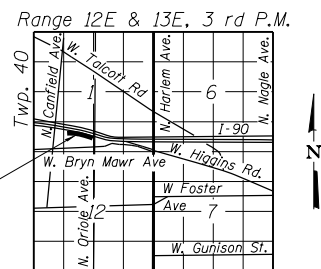
ELEVATION

(Looking North at Back of the Wall)



PLAN

Signed: _____
 Date: 11/30/2016
 Exp: S-1 thru S-18



LOCATION SKETCH

- Notes:
 1. For continuation, see Sheet 2 of 18.
 2. For soldier pile data, see Sheets 3 thru 7 of 18.
 3. For curve data, see Sheet 2 of 18.
 4. Piles to be placed with flanges parallel to wall.



USER NAME = k1e1ste	DESIGNED MRI	REVISED
CHECKED MLK	REVISIONS	
PLOT SCALE = 0.166666' / in.	DRAWN LK	REVISED
PLOT DATE = 6/6/2016	DATE 5/6/2016	REVISED

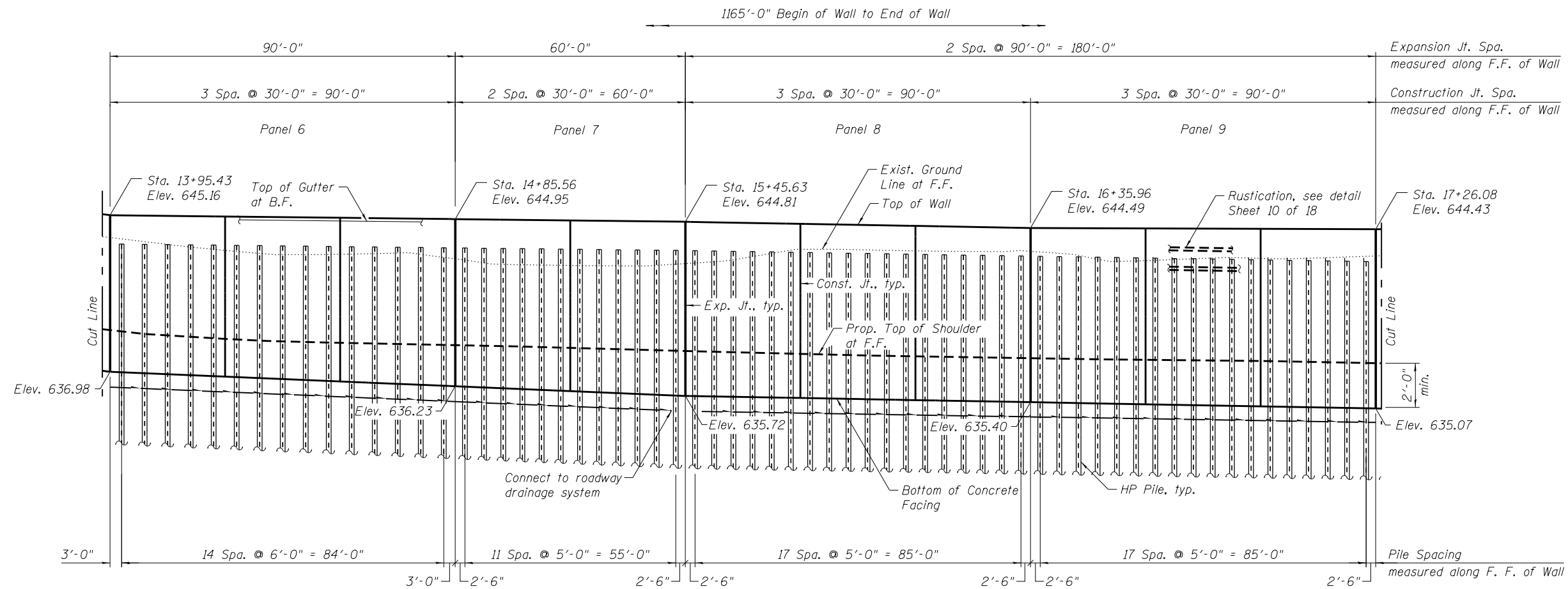
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RETAINING WALL 2 PLAN & ELEVATION - 1
 STRUCTURE NO. 016-2034

SHEET NO. 1 OF 18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	386
				CONTRACT NO. 60Y38

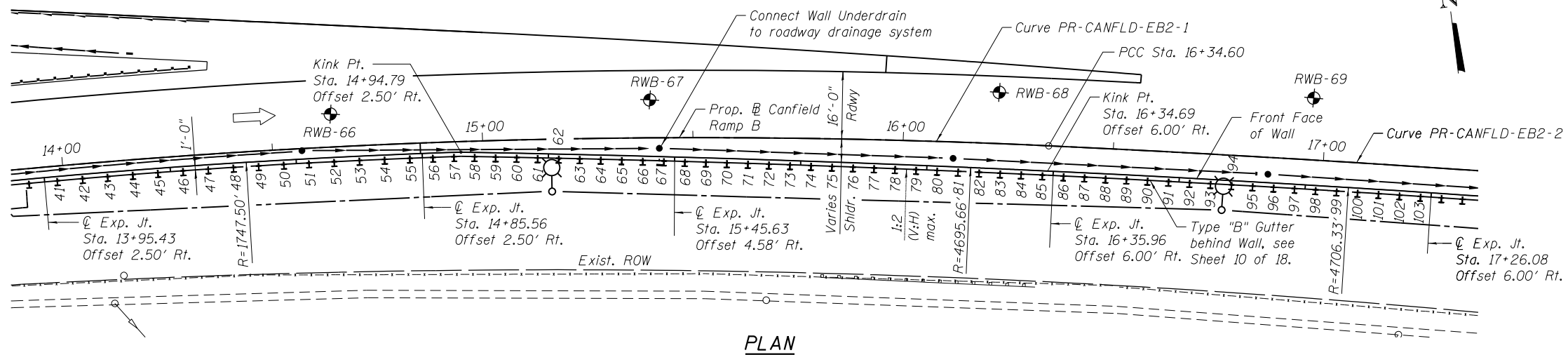
ILLINOIS FED. AID PROJECT



ELEVATION
(Looking North at Back of the Wall)

CURVE DATA
PR-CANFLD-EB2-1 **CURVE DATA**
PR-CANFLD-EB2-2

PI Sta. = 13+20.82	PI STA. = 19+04.47
$\Delta = 20^\circ 46' 37''$ (Rt)	$\Delta = 6^\circ 33' 20''$ (Rt)
D = 3° 16' 27"	D = 1° 12' 57"
R = 1,750.00'	R = 4,712.33'
T = 320.82'	T = 269.88'
L = 634.60'	L = 539.16'
E = 29.16'	E = 7.72'
e = 4.60%	e = 3.00%
T.R. = 64	T.R. = N/A
S.E. Run = 154	S.E. Run = 95
P.C. Sta. = 10+00.00	P.C.C. Sta. = 16+34.60
P.C.C. Sta. = 16+34.60	P.T. Sta. = 21+73.76



PLAN

- Notes:
1. For Legend and Notes, see Sheet 1 of 18.
2. For continuation, see Sheet 3 of 18.

HNTB

USER NAME = kkalite	DESIGNED MRI	REVISED
	CHECKED MLK	REVISED
PLOT SCALE = 0.16667' / in.	DRAWN LK	REVISED
PLOT DATE = 6/6/2016	DATE 5/6/2016	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL 2 PLAN & ELEVATION - 2
STRUCTURE NO. 016-2034

SHEET NO. 2 OF 18 SHEETS

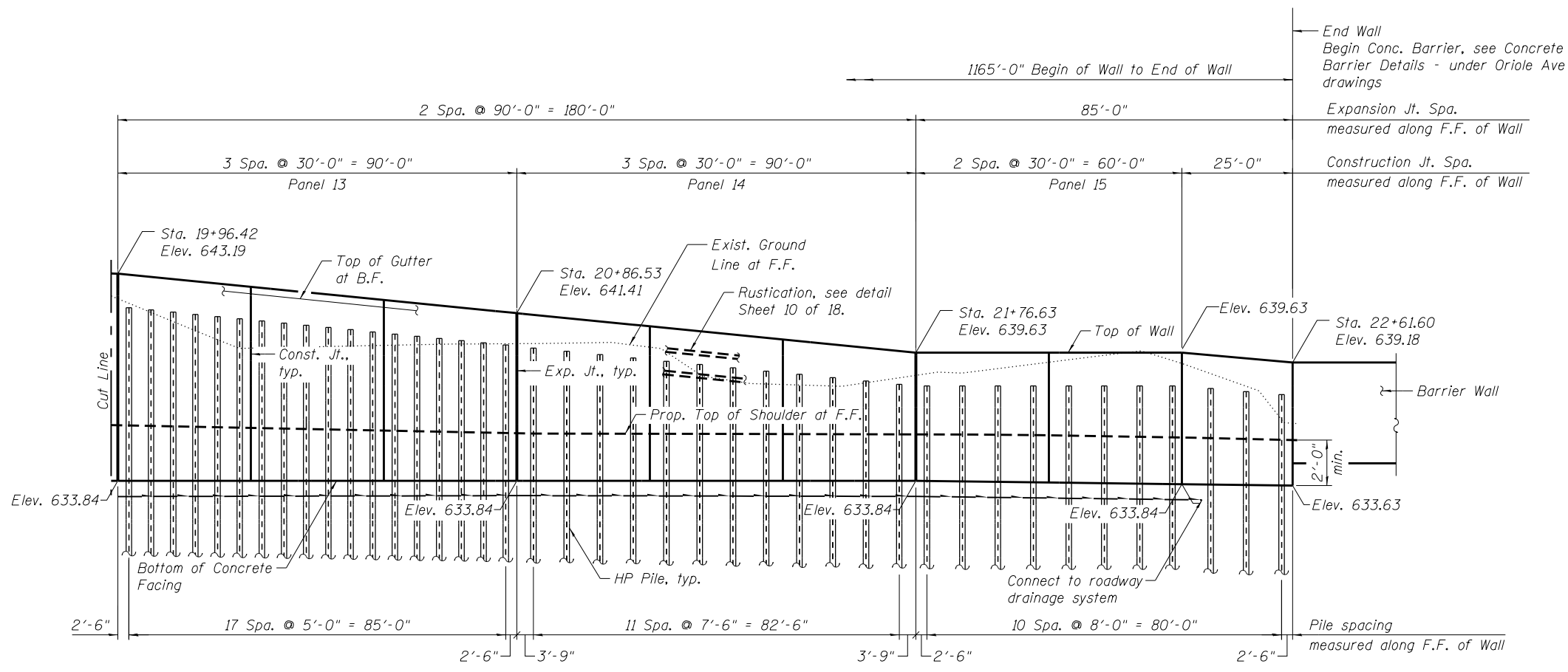
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	387
CONTRACT NO. 60Y38				

ILLINOIS FED. AID PROJECT

PILE TABLE

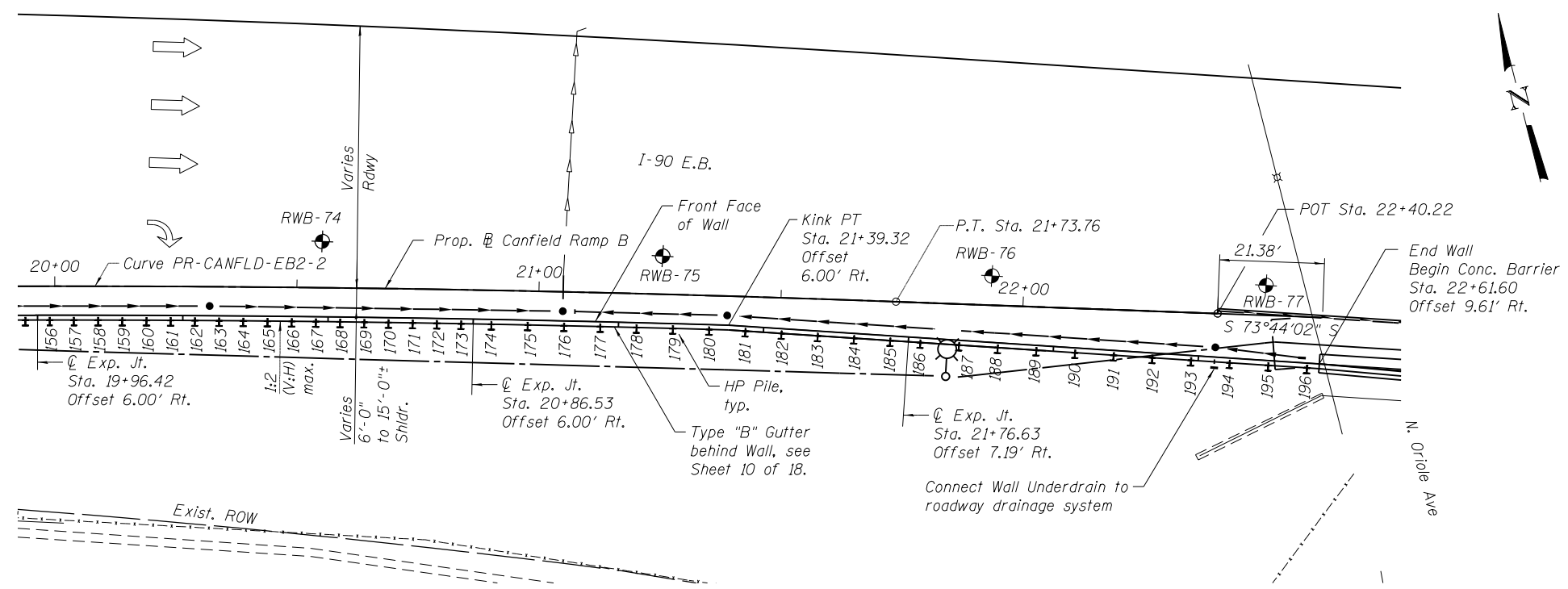
PILE NO.	SIZE	TOP ELEV.	BOTT. ELEV.	PILE LENGTH	SHEAR STUD
56	HP14x89	643.28	617.61	25.67	8
57	HP14x89	643.27	617.60	25.67	8
58	HP14x89	643.25	617.59	25.67	8
59	HP14x89	643.24	617.58	25.67	8
60	HP14x89	643.23	617.57	25.67	8
61	HP14x89	643.22	617.55	25.67	8
62	HP14x89	643.21	617.54	25.67	8
63	HP14x89	643.20	617.53	25.67	8
64	HP14x89	643.19	617.52	25.67	8
65	HP14x89	643.17	617.51	25.67	8
66	HP14x89	643.16	617.50	25.67	8
67	HP14x89	643.15	617.48	25.67	8
68	HP14x89	643.14	617.47	25.67	8
69	HP14x89	643.12	617.45	25.67	8
70	HP14x89	643.10	617.43	25.67	8
71	HP14x89	643.08	617.42	25.67	8
72	HP14x89	643.06	617.40	25.67	8
73	HP14x89	643.05	617.38	25.67	8
74	HP14x89	643.03	617.36	25.67	8
75	HP14x89	643.01	617.34	25.67	8
76	HP14x89	642.99	617.33	25.67	8
77	HP14x89	642.97	617.31	25.67	8
78	HP14x89	642.96	617.29	25.67	8
79	HP14x89	642.94	617.27	25.67	8
80	HP14x89	642.92	617.25	25.67	8
81	HP14x89	642.90	617.24	25.67	8
82	HP14x89	642.88	617.22	25.67	8
83	HP14x89	642.87	617.20	25.67	8
84	HP14x89	642.85	617.18	25.67	8
85	HP14x89	642.83	617.16	25.67	8
86	HP14x89	642.81	617.14	25.67	8
87	HP14x89	642.81	617.14	25.67	8
88	HP14x89	642.81	617.14	25.67	8
89	HP14x89	642.81	617.14	25.67	8
90	HP14x89	642.81	617.14	25.67	8
91	HP14x89	642.80	617.13	25.67	8
92	HP14x89	642.80	617.13	25.67	8
93	HP14x89	642.80	617.13	25.67	8
94	HP14x89	642.79	617.12	25.67	8
95	HP14x89	642.79	617.12	25.67	8
96	HP14x89	642.79	617.12	25.67	8
97	HP14x89	642.78	617.11	25.67	8
98	HP14x89	642.78	617.11	25.67	8
99	HP14x89	642.78	617.11	25.67	8
100	HP14x89	642.77	617.10	25.67	8
101	HP14x89	642.77	617.10	25.67	8
102	HP14x89	642.77	617.10	25.67	8
103	HP14x89	642.76	617.10	25.67	8
104	HP14x89	642.75	617.08	25.67	8
105	HP14x89	642.73	617.06	25.67	8
106	HP14x89	642.70	617.04	25.67	8
107	HP14x89	642.68	617.01	25.67	8
108	HP14x89	642.66	616.99	25.67	8
109	HP14x89	642.63	616.97	25.67	8
110	HP14x89	642.61	616.94	25.67	8

Notes:
 1. For Legend and Notes, see Sheet 1 of 18.
 2. For curve data, see Sheet 2 of 18.



ELEVATION

(Looking North at Back of the Wall)



PLAN



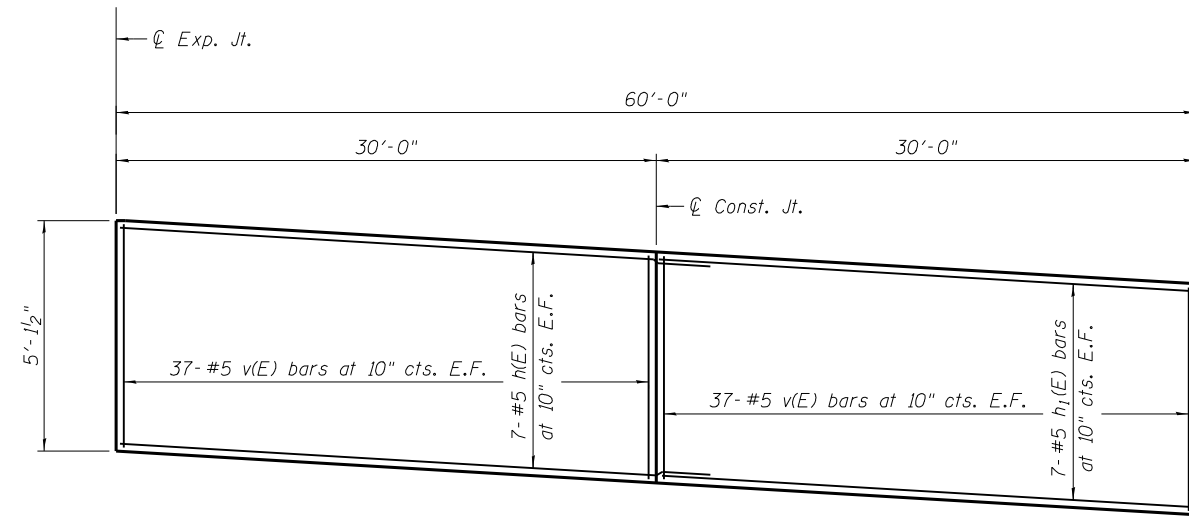
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	CHECKED MLK	REVISED
PLOT SCALE = 0.16667' / in.	DRAWN LK	REVISED
PLOT DATE = 6/6/2016	DATE 5/6/2016	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

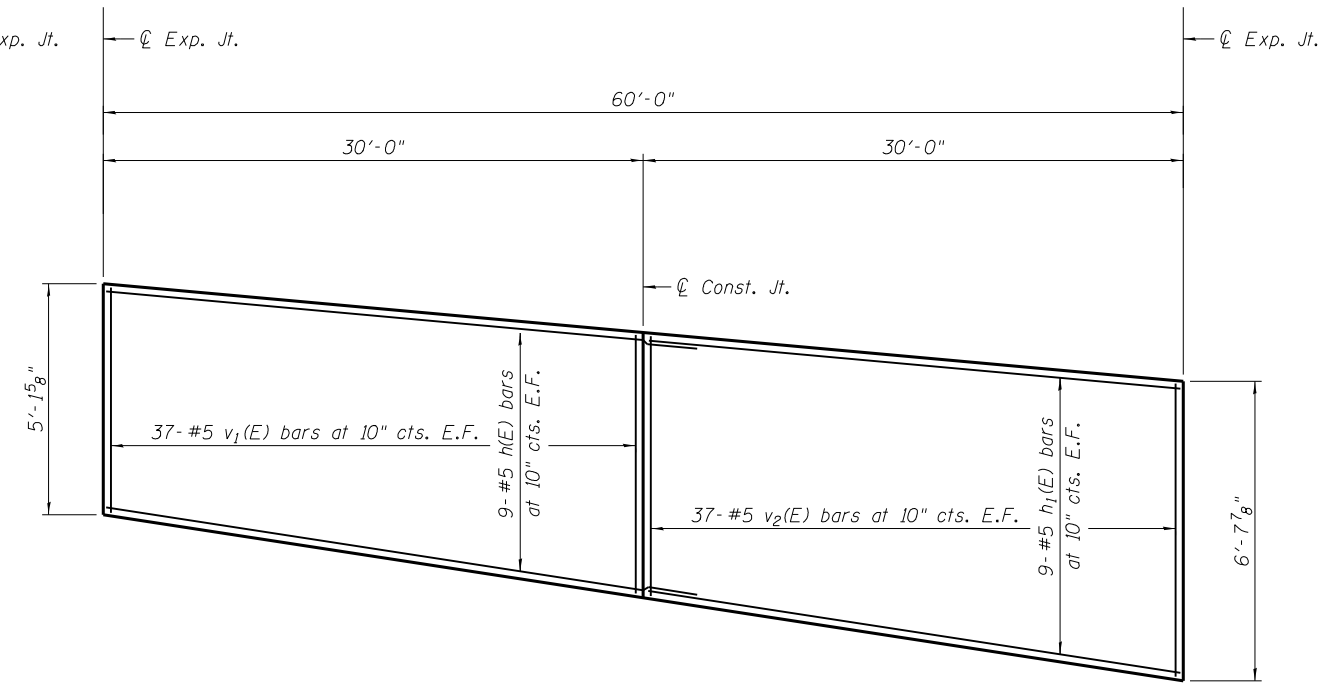
**RETAINING WALL 2 PLAN & ELEVATION - 4
 STRUCTURE NO. 016-2034**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	389
CONTRACT NO. 60Y38				

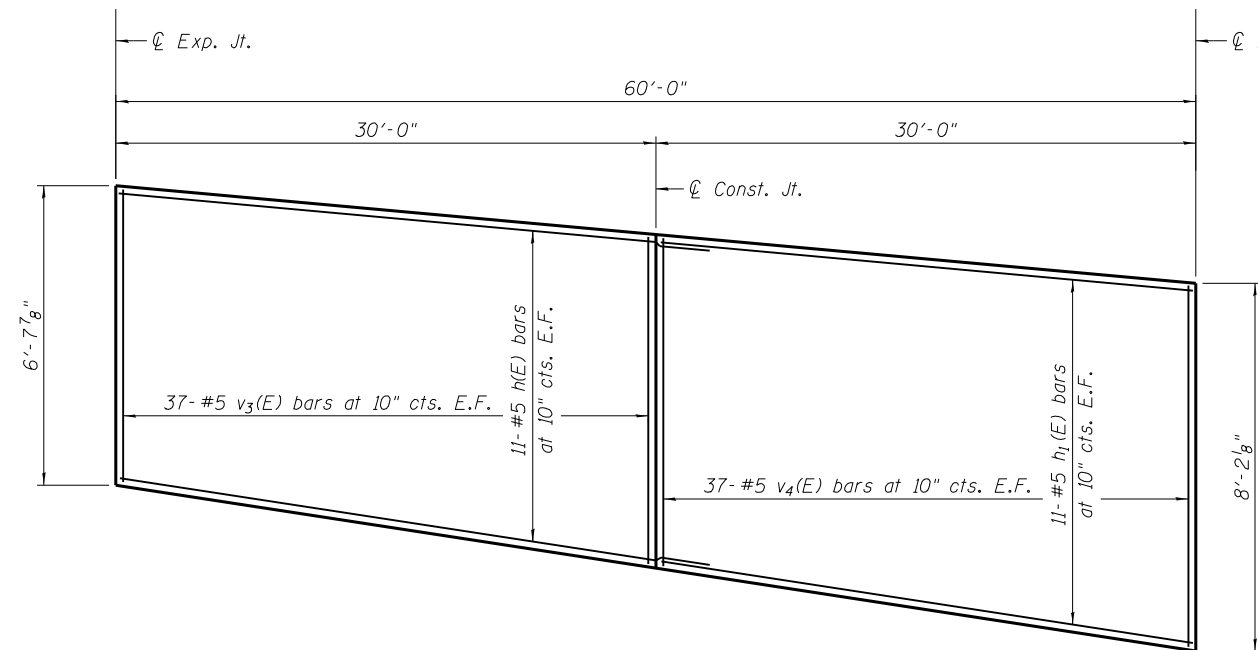
SHEET NO. 4 OF 18 SHEETS



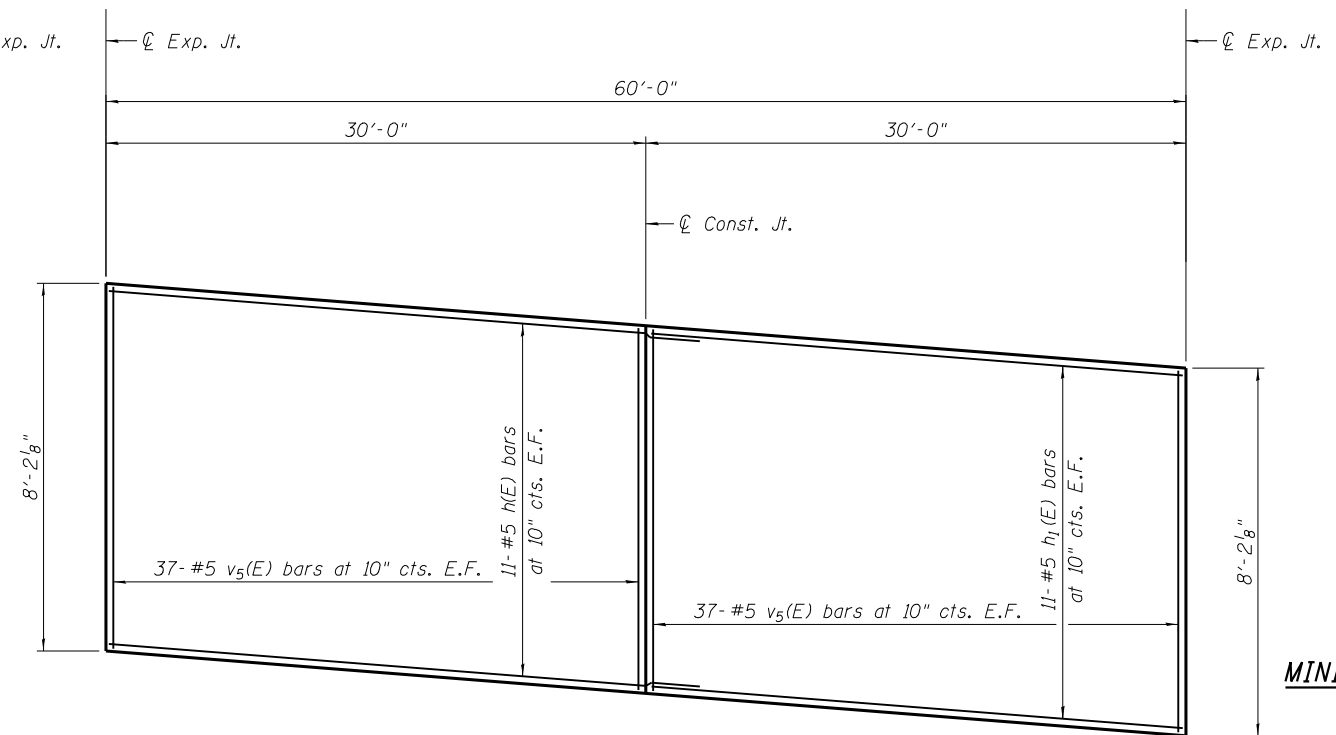
PANEL 1 ELEVATION



PANEL 2 ELEVATION



PANEL 3 ELEVATION



PANEL 4 AND 5 ELEVATION

MINIMUM BAR LAP
#5 bar = 3'-3"

- Notes:
1. Panel types shown looking North at Back of the Wall.
 2. Reinforcement spacing shown is to be used as maximum spacing.
 3. For location of panels, see Sheets 1 thru 4 of 18.
 4. For panel details and Bill of Material, see Sheet 10 of 18.
 5. For typical driven pile detail, see Sheet 10 of 18.



USER NAME = kkalite	DESIGNED MRI	REVISED
	CHECKED MLK	REVISED
PLOT SCALE = 0.08333 ' / in.	DRAWN LK	REVISED
PLOT DATE = 5/2/2016	DATE 5/6/2016	REVISED

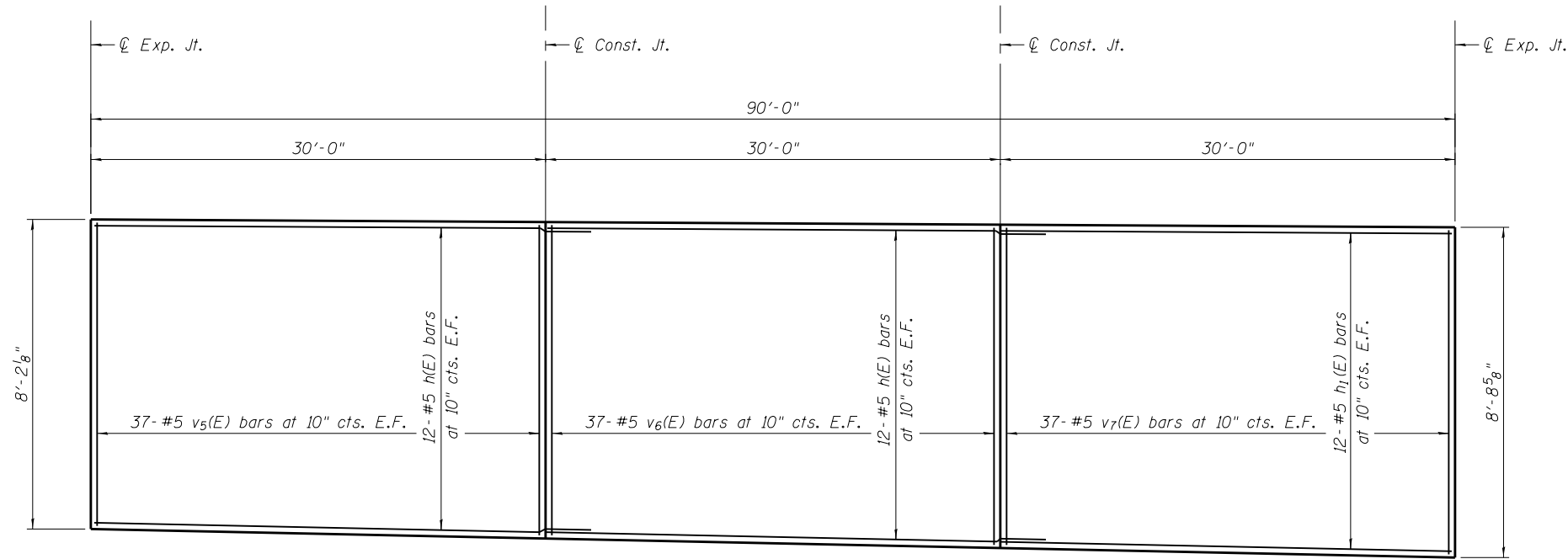
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RETAINING WALL 2 DETAILS - 1
STRUCTURE NO. 016-2034**

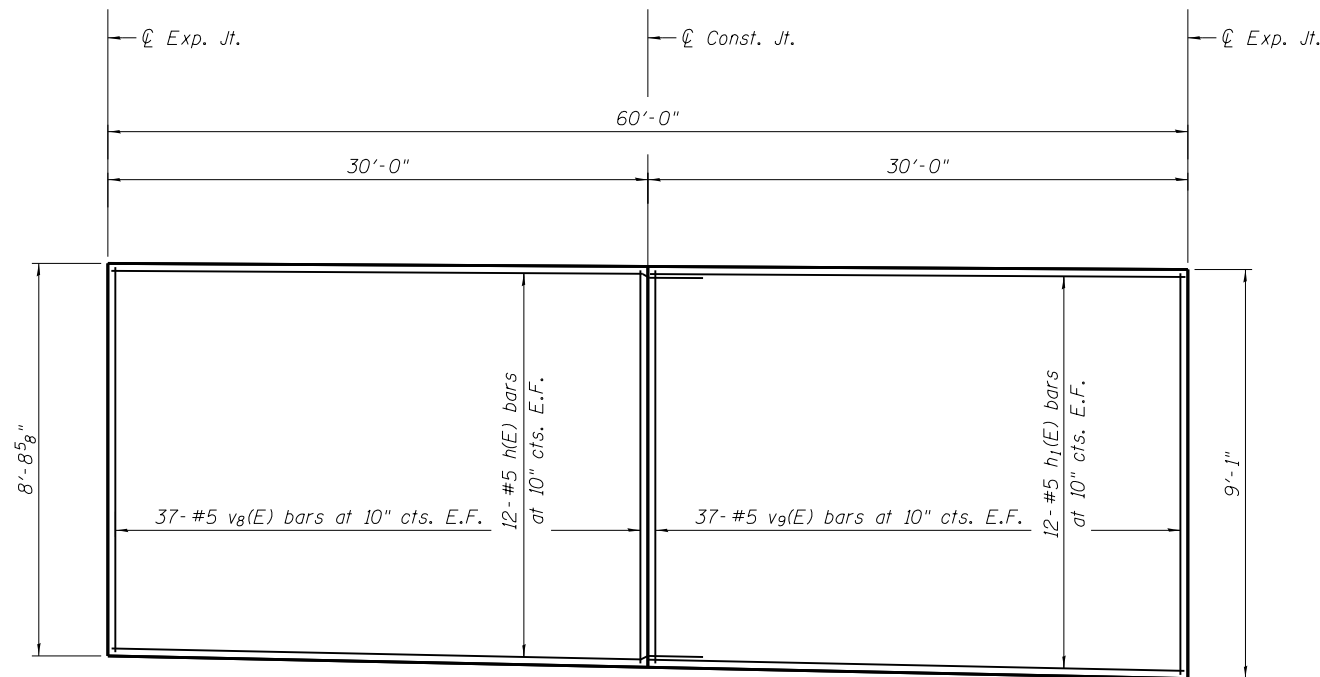
SHEET NO. 5 OF 18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	390
CONTRACT NO. 60Y38				

ILLINOIS FED. AID PROJECT



PANEL 6 ELEVATION



PANEL 7 ELEVATION

PILE TABLE

Pile No.	Size	Top Elev.	Bott. Elev.	Pile Length	Shear Stud
111	HP14x89	642.59	616.92	25.67	8
112	HP14x89	642.56	616.90	25.67	8
113	HP14x89	642.54	616.87	25.67	8
114	HP14x89	642.52	616.85	25.67	8
115	HP14x89	642.49	616.83	25.67	8
116	HP14x89	642.47	616.80	25.67	8
117	HP14x89	642.45	616.78	25.67	8
118	HP14x89	642.42	616.76	25.67	8
119	HP14x89	642.40	616.73	25.67	8
120	HP14x89	642.38	616.71	25.67	8
121	HP14x89	642.35	616.69	25.67	8
122	HP14x89	642.33	616.67	25.67	8
123	HP14x89	642.31	616.64	25.67	8
124	HP14x89	642.29	616.62	25.67	8
125	HP14x89	642.26	616.60	25.67	8
126	HP14x89	642.24	616.57	25.67	8
127	HP14x89	642.22	616.55	25.67	8
128	HP14x89	642.20	616.53	25.67	8
129	HP14x89	642.17	616.51	25.67	8
130	HP14x89	642.15	616.48	25.67	8
131	HP14x89	642.13	616.46	25.67	8
132	HP14x89	642.10	616.44	25.67	8
133	HP14x89	642.08	616.41	25.67	8
134	HP14x89	642.06	616.39	25.67	8
135	HP14x89	642.04	616.37	25.67	8
136	HP14x89	642.01	616.35	25.67	8
137	HP14x89	641.99	616.32	25.67	8
138	HP14x89	641.97	616.30	25.67	8
139	HP14x89	641.94	616.28	25.67	8
140	HP14x89	641.92	616.26	25.67	8
141	HP14x89	641.90	616.23	25.67	8
142	HP14x89	641.88	616.21	25.67	8
143	HP14x89	641.85	616.19	25.67	8
144	HP14x89	641.83	616.16	25.67	8
145	HP14x89	641.81	616.14	25.67	8
146	HP14x89	641.79	616.12	25.67	8
147	HP14x89	641.76	616.10	25.67	8
148	W27x76	641.74	617.82	23.92	8
149	W27x76	641.67	617.75	23.92	8
150	HP14x89	641.65	615.98	25.67	8
151	HP14x89	641.63	615.96	25.67	8
152	HP14x89	641.60	615.94	25.67	8
153	HP14x89	641.58	615.91	25.67	8
154	HP14x89	641.56	615.89	25.67	8
155	HP14x89	641.53	615.87	25.67	8
156	HP14x89	641.47	615.81	25.67	8
157	HP14x89	641.37	615.71	25.67	8
158	HP14x89	641.28	615.61	25.67	8
159	HP14x89	641.18	615.51	25.67	8
160	HP14x89	641.08	615.41	25.67	8
161	HP14x89	640.98	615.31	25.67	8
162	HP14x89	640.88	615.21	25.67	8
163	HP14x89	640.78	615.11	25.67	7
164	HP14x89	640.68	615.02	25.67	7
165	HP14x89	640.58	614.92	25.67	7

Notes:
1. For Notes, see Sheet 5 of 18.



USER NAME = kkalite	DESIGNED MRI	REVISED
	CHECKED MLK	REVISED
PLOT SCALE = 0.166666' / in.	DRAWN LK	REVISED
PLOT DATE = 6/6/2016	DATE 5/6/2016	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

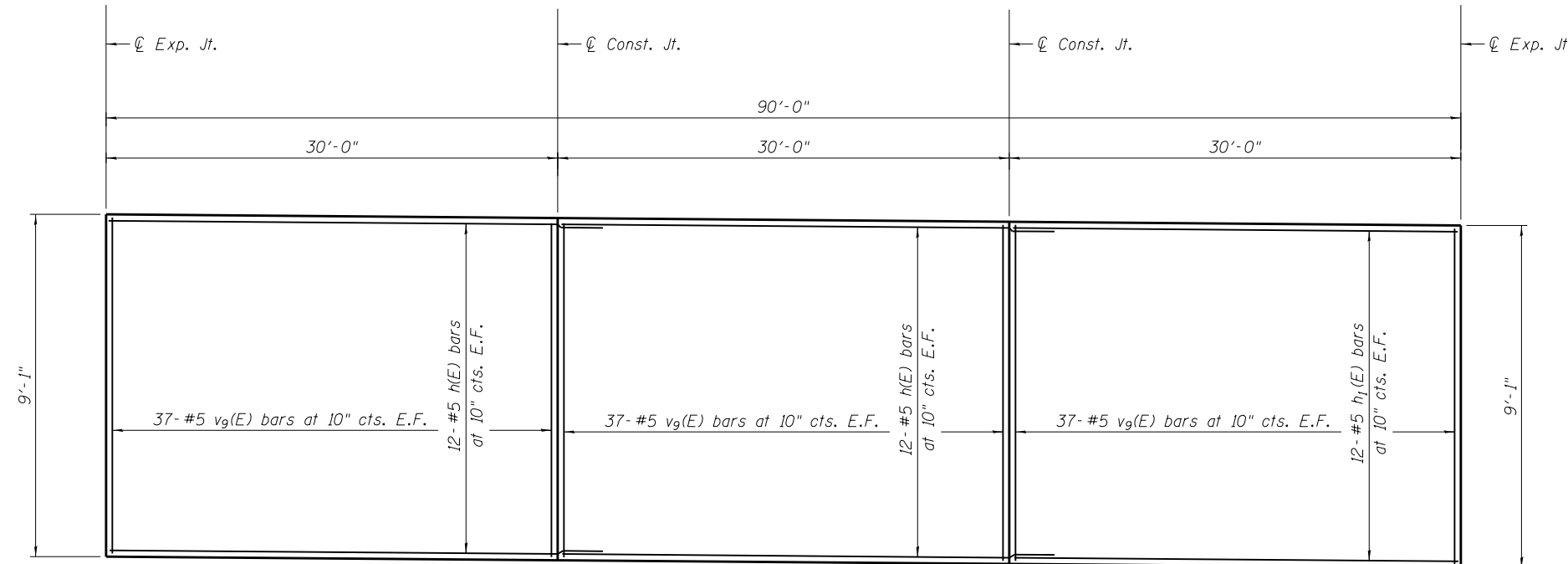
RETAINING WALL 2 DETAILS - 2
STRUCTURE NO. 016-2034

SHEET NO. 6 OF 18 SHEETS

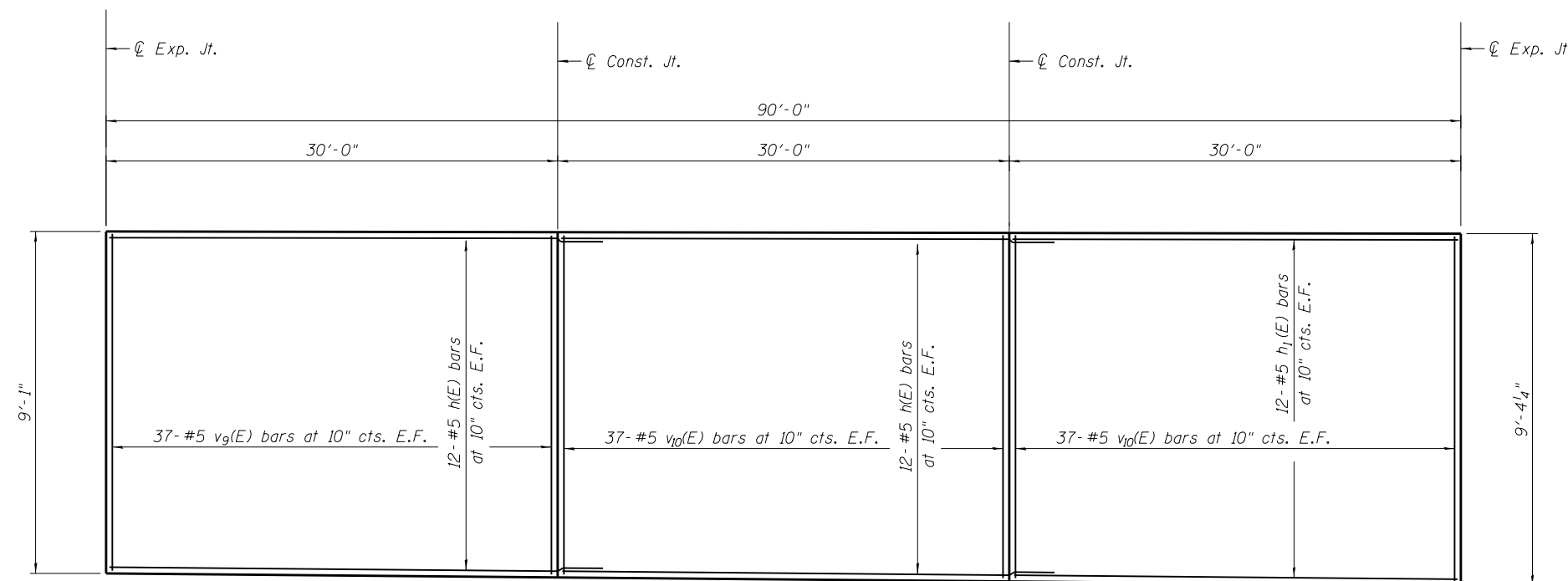
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	391
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				

PILE TABLE

Pile No.	Size	Top Elev.	Bott. Elev.	Pile Length	Shear Stud
166	HP14x89	640.48	614.82	25.67	7
167	HP14x89	640.39	614.72	25.67	7
168	HP14x89	640.29	614.62	25.67	7
169	HP14x89	640.19	614.52	25.67	7
170	HP14x89	640.09	614.42	25.67	7
171	HP14x89	639.99	614.32	25.67	7
172	HP14x89	639.89	614.22	25.67	7
173	HP14x89	639.79	614.12	25.67	6
174	HP14x89	639.67	613.75	25.92	6
175	HP14x89	639.52	613.60	25.92	6
176	HP14x89	639.37	613.46	25.92	6
177	HP14x89	639.22	613.31	25.92	6
178	HP14x89	639.08	613.16	25.92	6
179	HP14x89	638.93	613.01	25.92	6
180	HP14x89	638.78	612.86	25.92	5
181	HP14x89	638.63	612.71	25.92	5
182	HP14x89	638.48	612.57	25.92	5
183	HP14x89	638.33	612.42	25.92	5
184	HP14x89	638.19	612.27	25.92	5
185	HP14x89	638.04	612.12	25.92	5
186	HP14x89	637.96	613.63	24.33	5
187	HP14x89	637.96	613.63	24.33	5
188	HP14x89	637.96	613.63	24.33	5
189	HP14x89	637.96	613.63	24.33	5
190	HP14x89	637.96	613.63	24.33	5
191	HP14x89	637.96	613.63	24.33	5
192	HP14x89	637.96	613.63	24.33	5
193	HP14x89	637.96	613.63	24.33	5
194	HP14x89	637.84	613.51	24.33	5
195	HP14x89	637.70	613.37	24.33	5
196	HP14x89	637.56	613.22	24.33	4



PANEL 8 ELEVATION



PANEL 9 ELEVATION

Notes:
1. For Notes, see Sheet 5 of 18.



USER NAME = ikelite	DESIGNED MRI	REVISED
	CHECKED MLK	REVISED
PLOT SCALE = 0.16667' / in.	DRAWN LK	REVISED
PLOT DATE = 6/6/2016	DATE 5/6/2016	REVISED

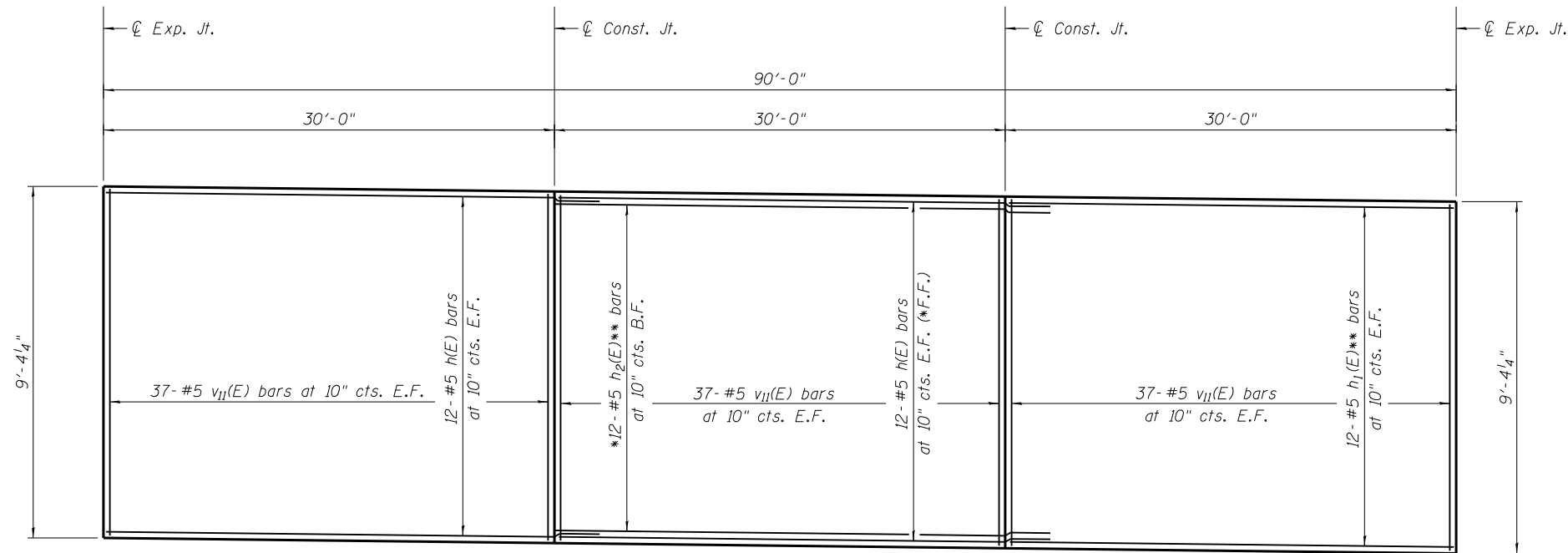
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RETAINING WALL 2 DETAILS - 3
STRUCTURE NO. 016-2034**

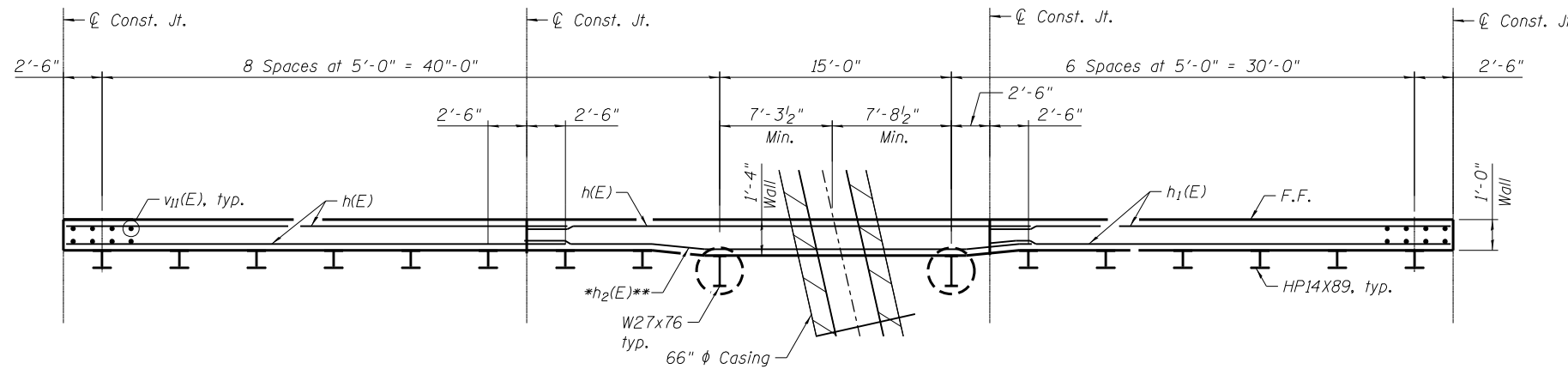
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	392
CONTRACT NO. 60Y38				

SHEET NO. 7 OF 18 SHEETS

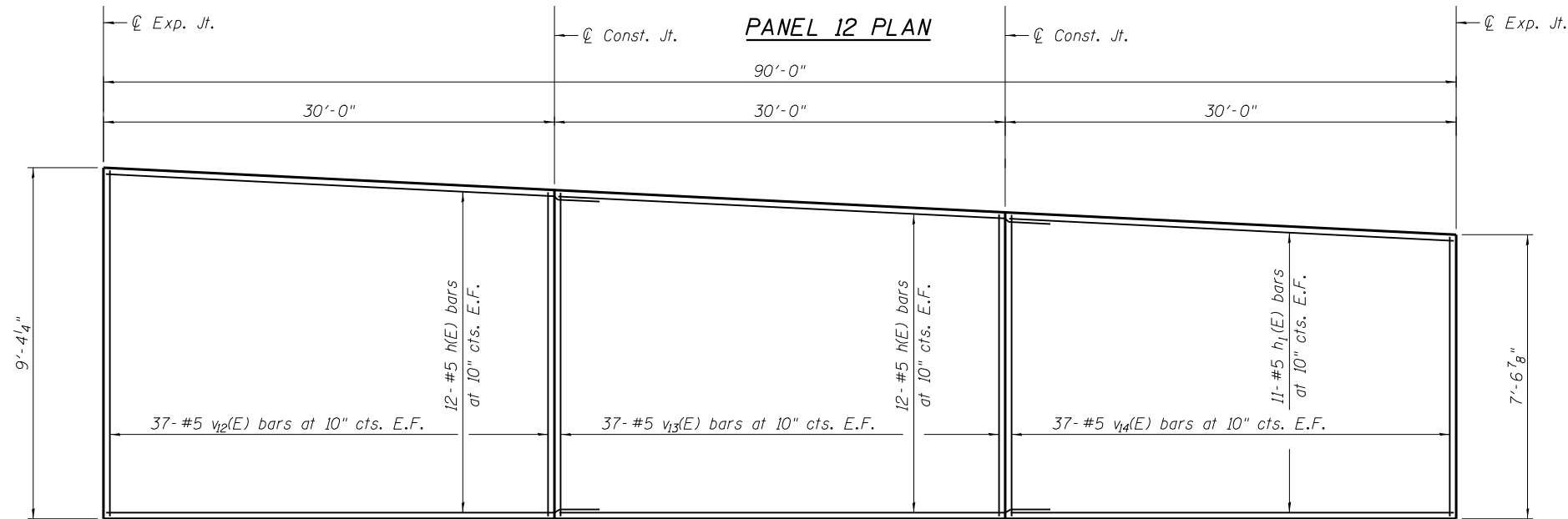
ILLINOIS FED. AID PROJECT



PANEL 10, 11, AND 12 ELEVATION



PANEL 12 PLAN



PANEL 13 ELEVATION

- * Panel 12 only
- ** Bend bars to fit in as required

- Notes:
1. For Notes, see Sheet 5 of 18.
 2. For detail at drilled soldier piles, see Sheet 11 of 18.



USER NAME = kelite	DESIGNED MRI	REVISED
	CHECKED MLK	REVISED
PLOT SCALE = 0.08333 ' / in.	DRAWN LK	REVISED
PLOT DATE = 5/2/2016	DATE 5/6/2016	REVISED

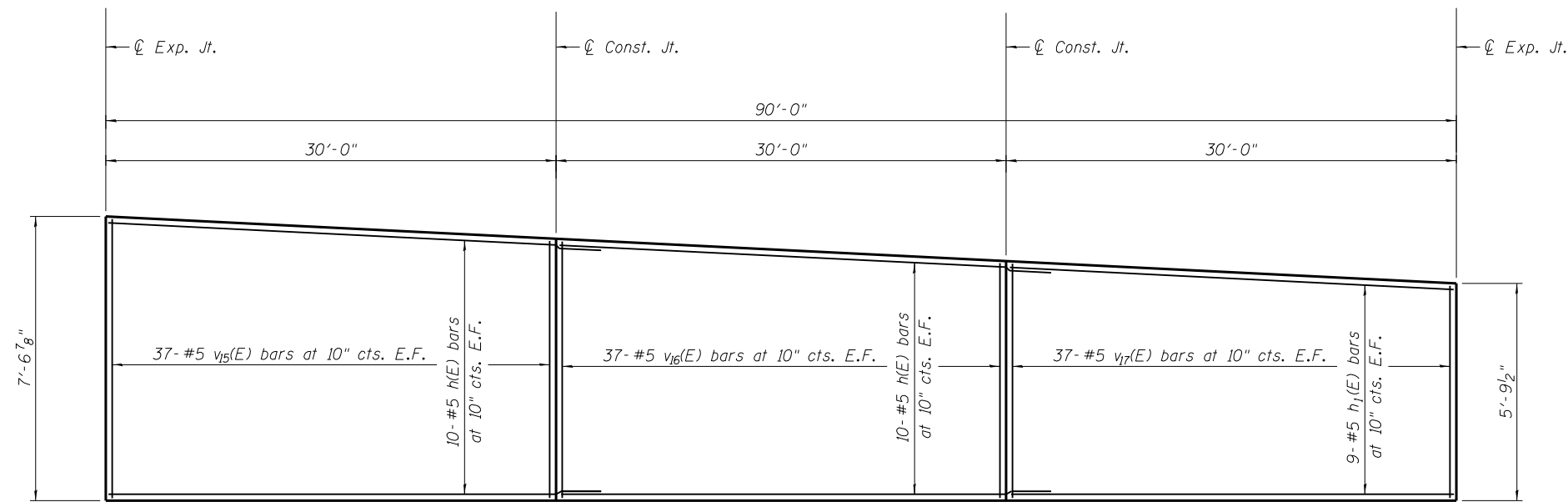
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL 2 DETAILS - 4
STRUCTURE NO. 016-2034

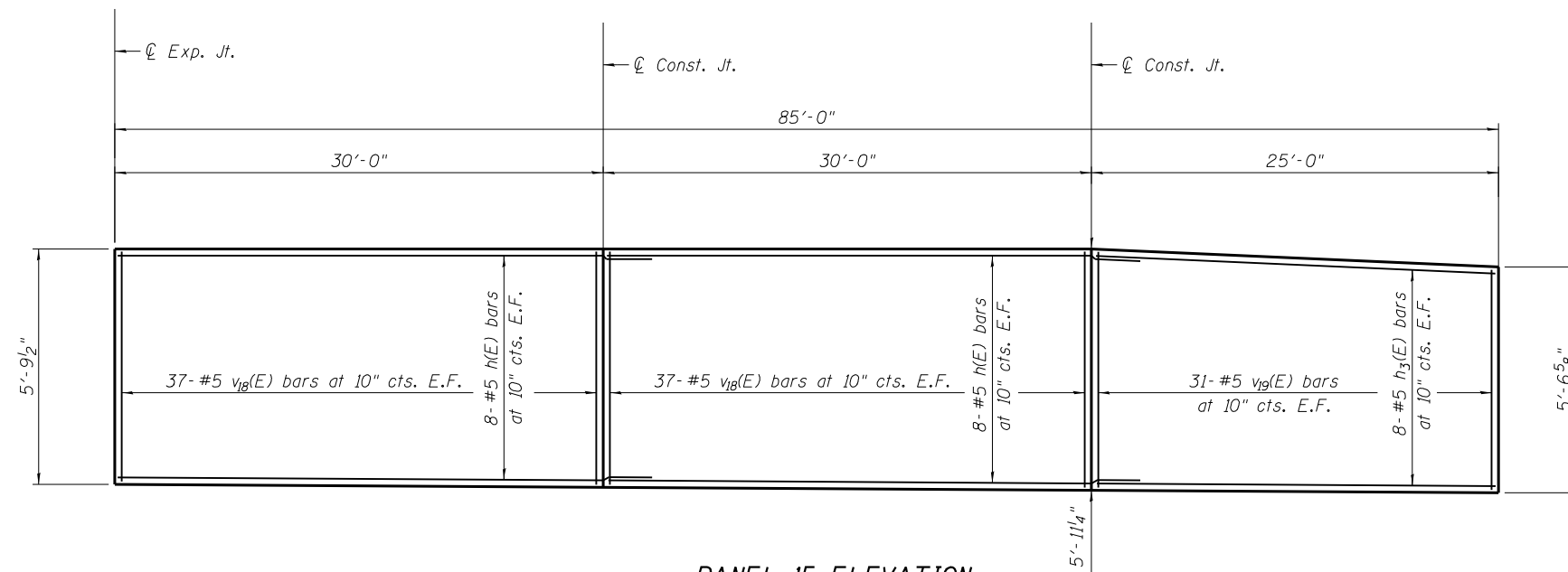
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	393
CONTRACT NO. 60Y38				

SHEET NO. 8 OF 18 SHEETS

ILLINOIS FED. AID PROJECT



PANEL 14 ELEVATION



PANEL 15 ELEVATION

Notes:
1. For Notes, see Sheet 5 of 18.



USER NAME = ikelito	DESIGNED MRI	REVISED
	CHECKED MLK	REVISED
PLOT SCALE = 0.08333' / in.	DRAWN LK	REVISED
PLOT DATE = 5/2/2016	DATE 5/6/2016	REVISED

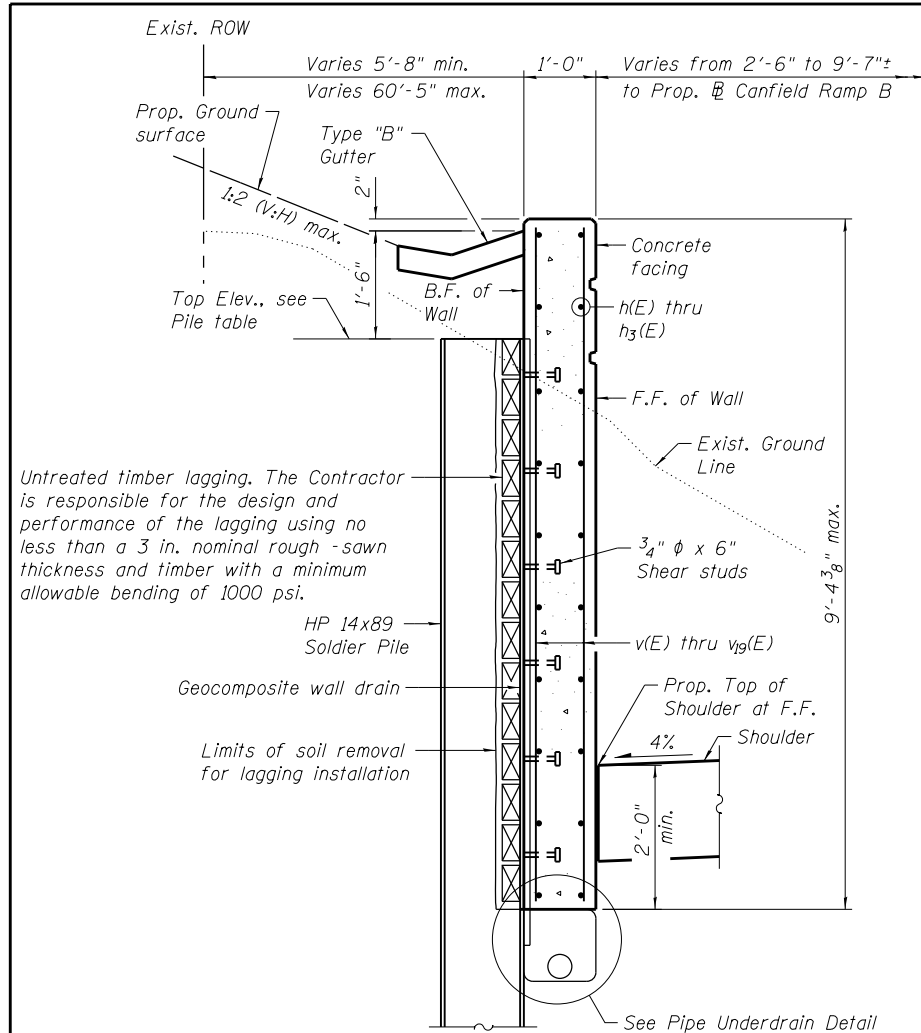
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RETAINING WALL 2 DETAILS - 5
STRUCTURE NO. 016-2034**

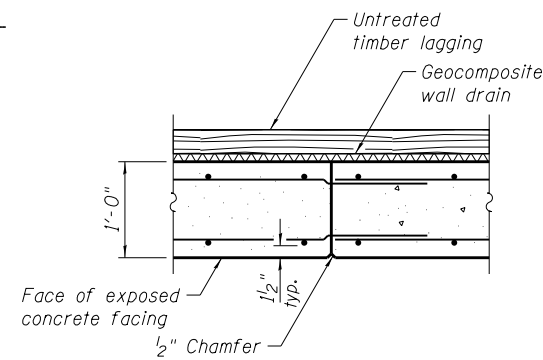
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	394
				CONTRACT NO. 60Y38

SHEET NO. 9 OF 18 SHEETS

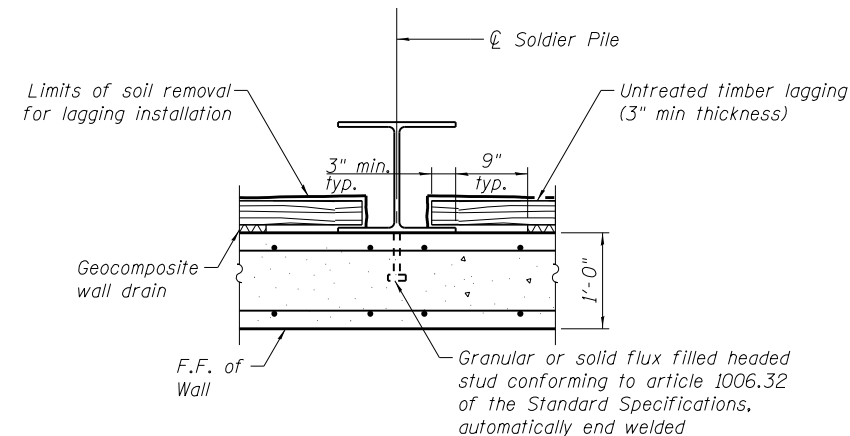
ILLINOIS FED. AID PROJECT



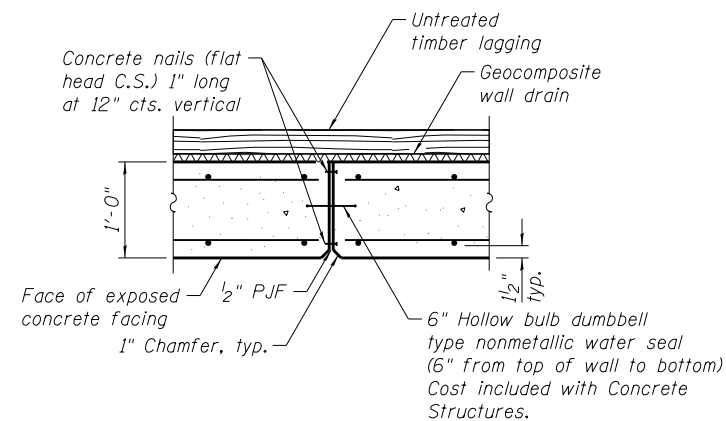
SECTION THRU DRIVEN SOLDIER PILE WALL AT SOLDIER PILE



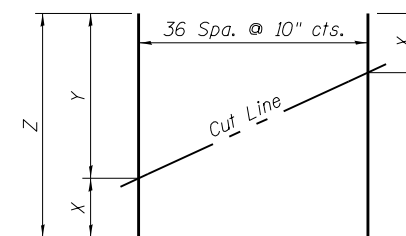
CONSTRUCTION JOINT



SECTION THRU SOLDIER PILE



EXPANSION JOINT

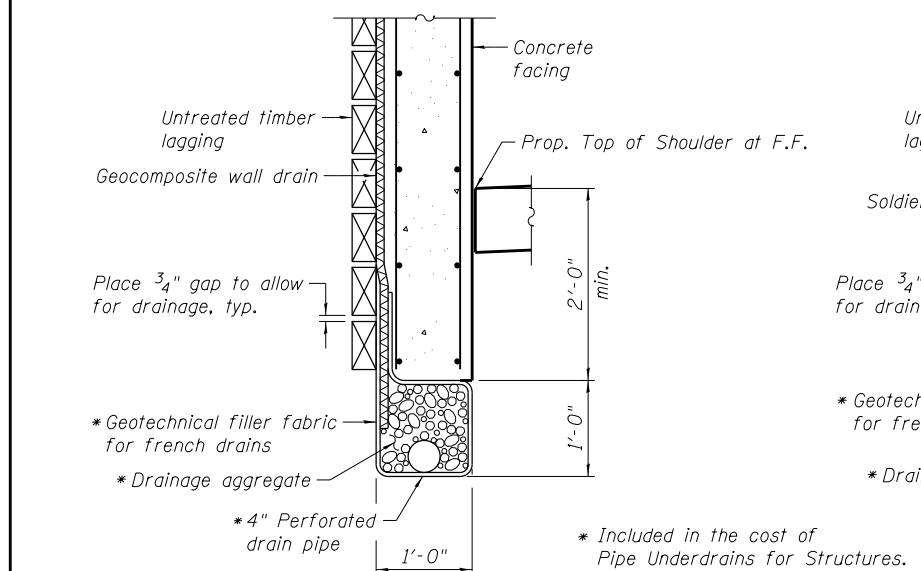


FIELD CUTTING DIAGRAM

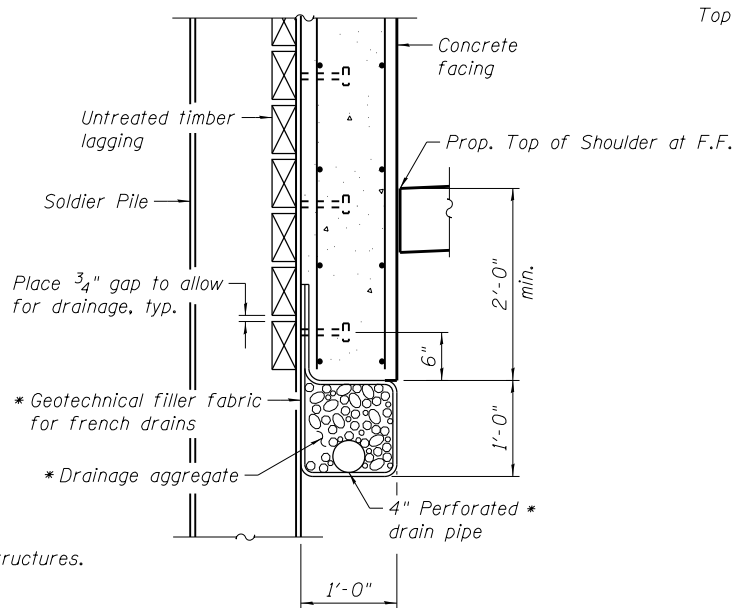
Order v₁(E), v₂(E), v₃(E), v₄(E), v₁₂(E), v₁₃(E), v₁₄(E), v₁₅(E), v₁₆(E), and v₁₇(E) bars full length. Cut as shown and use remainder of bars in opposite face.

WALL 2 BILL OF MATERIAL

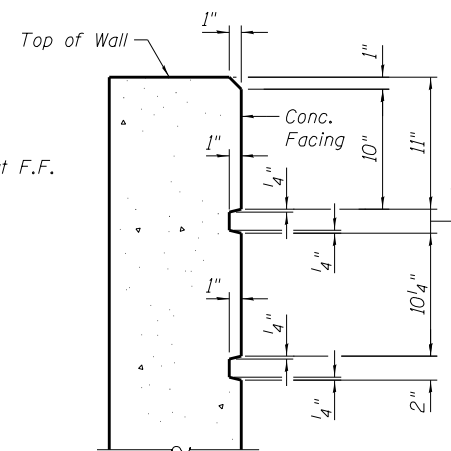
Bar	No.	Size	Length	Shape	
h(E)	518	#5	33'-1"		
h ₁ (E)	306	#5	29'-9"		
h ₂ (E)	12	#5	33'-4"		
h ₃ (E)	16	#5	24'-9"		
v(E)	148	#5	4'-9"		
v ₁ (E)	37	#5	10'-3"		
v ₂ (E)	37	#5	11'-9"		
v ₃ (E)	37	#5	13'-4"		
v ₄ (E)	37	#5	14'-11"		
v ₅ (E)	222	#5	7'-10"		
v ₆ (E)	74	#5	8'-0"		
v ₇ (E)	74	#5	8'-3"		
v ₈ (E)	74	#5	8'-5"		
v ₉ (E)	370	#5	8'-7"		
v ₁₀ (E)	148	#5	8'-10"		
v ₁₁ (E)	666	#5	9'-0"		
v ₁₂ (E)	37	#5	17'-5"		
v ₁₃ (E)	37	#5	16'-3"		
v ₁₄ (E)	37	#5	15'-1"		
v ₁₅ (E)	37	#5	13'-11"		
v ₁₆ (E)	37	#5	12'-8"		
v ₁₇ (E)	37	#5	11'-6"		
v ₁₈ (E)	148	#5	5'-6"		
v ₁₉ (E)	62	#5	5'-4"		
Reinforcement Bars, Epoxy Coated				Pound	50,070
Concrete Structures				Cu Yd	348.9



BETWEEN SOLDIER PILES



AT SOLDIER PILES



RUSTICATION DETAIL AT TOP OF WALL

SCHEDULE

Bar	X	Y	Z	No. of Bars
v ₁ (E)	4'-9"	5'-6"	10'-3"	37
v ₂ (E)	5'-6"	6'-3"	11'-9"	37
v ₃ (E)	6'-3"	7'-1"	13'-4"	37
v ₄ (E)	7'-1"	7'-10"	14'-11"	37
v ₁₂ (E)	9'-0"	8'-5"	17'-5"	37
v ₁₃ (E)	8'-5"	7'-10"	16'-3"	37
v ₁₄ (E)	7'-10"	7'-3"	15'-1"	37
v ₁₅ (E)	7'-3"	6'-8"	13'-11"	37
v ₁₆ (E)	6'-8"	6'-0"	12'-8"	37
v ₁₇ (E)	6'-0"	5'-6"	11'-6"	37

- Notes:
- For panel reinforcement, see Sheets 5-9 of 18.
 - Slope underdrain to outlet to designated locations.
 - Protective Coat to be applied to all exposed concrete.



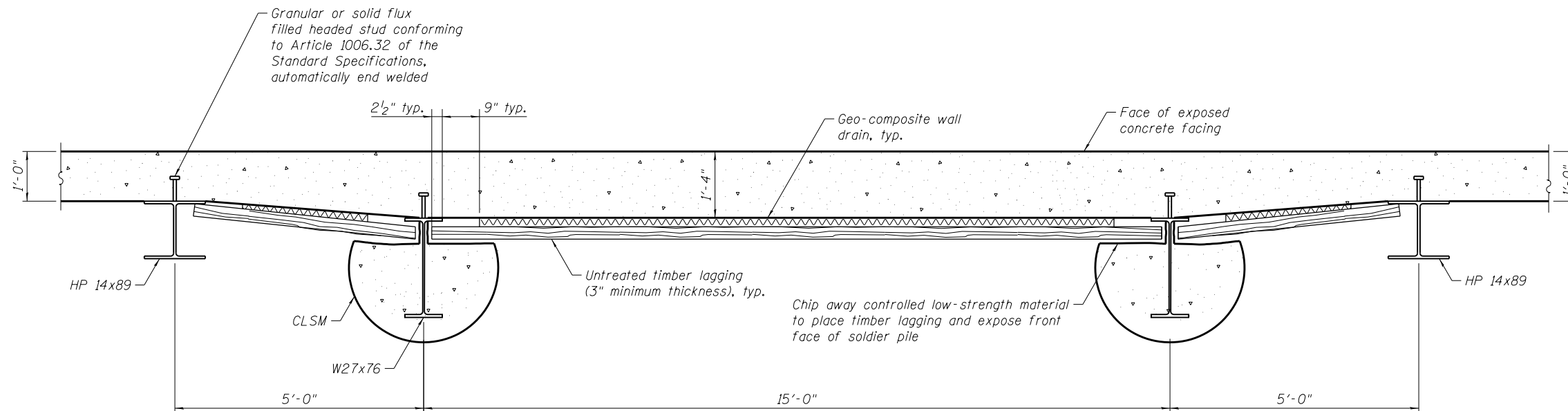
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	CHECKED MLK	REVISION
PLOT SCALE = 0:2.0000 '1' = 1"	DRAWN LK	REVISION
PLOT DATE = 6/6/2016	DATE 5/6/2016	REVISION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

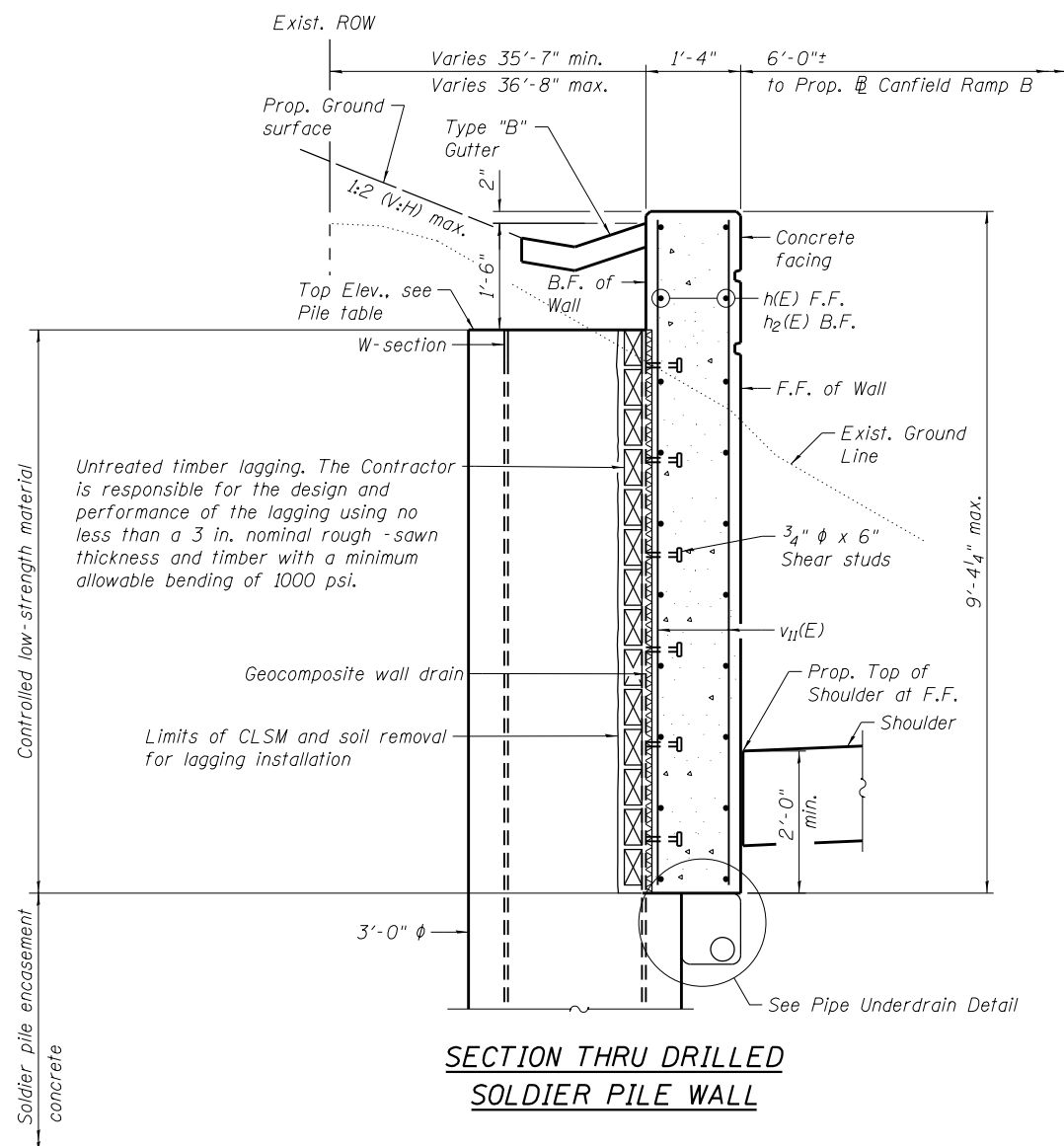
RETAINING WALL 2 DETAILS - 6
STRUCTURE NO. 016-2034

SHEET NO. 10 OF 18 SHEETS

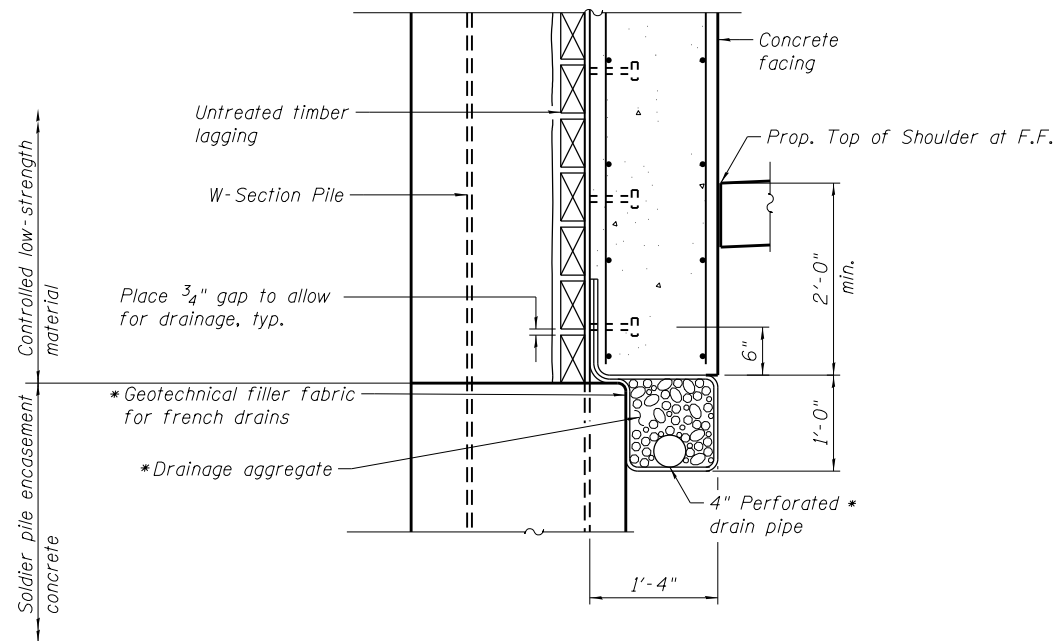
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	395
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				



**DETAILED PLAN AT
DRILLED SOLDIER PILES**



**SECTION THRU DRILLED
SOLDIER PILE WALL**



UNDERDRAIN DETAIL AT DRILLED SOLDIER PILES

* Included in the cost of Pipe Underdrains for structures.

Notes:

1. Drilled soldier piles are located in Panel 12 at the locations of W-sections.
2. For Underdrain detail between soldier piles, see Sheet 10 of 18.
3. For Panel 12 reinforcement, see sheet 8 of 18.
4. Protective coat to be applied to all exposed concrete.



USER NAME = kkalite	DESIGNED MRI	REVISED
	CHECKED MLK	REVISED
PLOT SCALE = 0:2.0000 '1' / in.	DRAWN LK	REVISED
PLOT DATE = 6/6/2016	DATE 5/6/2016	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RETAINING WALL 2 DETAILS - 7
STRUCTURE NO. 016-2034**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	396
CONTRACT NO. 60Y38				

SHEET NO. 11 OF 18 SHEETS

ILLINOIS FED. AID PROJECT



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/28/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY JZ

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH	B	U	M	Surface Water Elev.	DEPTH	B	U	M	
Station	ft	(ft)	(6")	(tsf)	(%)	ft	(ft)	(6")	(tsf)	(%)
4.0" ASPHALT	653.57				n/a					
10.0" CONCRETE	652.73				n/a					
CLAY LOAM-brown-hard		5								
		13								
		14								
		7								
		9	7.9							18
		11	B							
		4								
		6	6.6							18
		11	B							
		4								
		6	6.3							18
		8	B							
		-10								
CLAY-gray-very stiff	643.40									
		3								
		6	3.3							20
		7	B							
		4								
		6	6.3							18
		8	B							
		-10								
SILT-gray-medium dense	640.90									
		3								
		5								20
		6								
		-15								
CLAY to CLAY LOAM-gray-stiff to very stiff	638.40									
		3								
		4	2.4							22
		6	B							
		3								
		5	1.9							20
		5	B							
		-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)



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/28/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY JZ

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH	B	U	M	Surface Water Elev.	DEPTH	B	U	M	
Station	ft	(ft)	(6")	(tsf)	(%)	ft	(ft)	(6")	(tsf)	(%)
4.5" ASPHALT	651.63				n/a					
10.0" CONCRETE	650.79				n/a					
CLAY-brown & gray-stiff to hard		3								
		4								
		4								
		2								
		7	4.2							19
		10	B							
		-3								
		3								
		6	4.7							20
		8	B							
		4								
		7	5.9							19
		12	B							
		-10								
		3								
		4	2.4							21
		6	B							
		3								
		4	1.9							22
		5	B							
		-15								
		3								
		5	2.7							20
		6	B							
		3								
		5	2.1							20
		6	B							
		-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)



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/28/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY JZ

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH	B	U	M	Surface Water Elev.	DEPTH	B	U	M	
Station	ft	(ft)	(6")	(tsf)	(%)	ft	(ft)	(6")	(tsf)	(%)
6.0" ASPHALT	648.50				n/a					
7.0" CONCRETE	647.92				n/a					
CLAY-brown & gray-stiff to hard		3								
		3								
		3								
		3								
		3								
		6	6.4							19
		9	B							
		4								
		6	3.6							19
		9	B							
		3								
		5	2.6							21
		5	B							
		-10								
		3								
		5	2.1							21
		7	B							
		3								
		4	2.1							21
		4	B							
		-15								
		3								
		4	1.7							22
		5	B							
		3								
		5	1.3							22
		6	B							
		-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)

Notes:
1. For location of soil boring, see Sheet 1 of 18.



USER NAME = kkalite	DESIGNED --	REVISED
	CHECKED --	REVISED
PLOT SCALE = 0.1" = 1'	DRAWN LK	REVISED
PLOT DATE = 5/2/2016	DATE 5/6/2016	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS - 1
STRUCTURE NO. 016-2034

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	397
CONTRACT NO. 60Y38				

SHEET NO. 12 OF 18 SHEETS

ILLINOIS FED. AID PROJECT



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/29/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY JZ

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH	LOG	UCS	MOS	Surface Water Elev.	DEPTH	LOG	UCS	MOS	
Station	ft	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
5.5" ASPHALT	646.14				n/a					
7.0" CONCRETE	645.56				n/a					
CLAY-brown-stiff to very stiff		2				3				
		3				4	1.9		17	
		3				6	B			
becoming gray @ -3.0'										
		3				3				
		4	3.7			5	2.3		18	
		7	B			7	B			
		-5			621.60	-25				
		3								
		3	1.4							
		4	B							
		2								
		3	1.6							
		4	B							
		-10				-30				
		2								
		3	1.5							
		5	B							
		2								
		4	2.2							
		5	B							
		-15				-35				
		2								
		4	1.2							
		5	B							
		2								
		4	1.2							
		4	B							
		-20				-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)



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 2

Date 10/29/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY JZ

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH	LOG	UCS	MOS	Surface Water Elev.	DEPTH	LOG	UCS	MOS	
Station	ft	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
7.5" ASPHALT	643.38				n/a					
8.0" CONCRETE	642.71				n/a					
SANDY CLAY LOAM-gray-very loose (Fill)		2				3				
		2				3	1.9		19	
		2				6	B			
CLAY-gray-stiff to very stiff	641.00									
		2				4				
		3	2.2			5	2.2		19	
		4	B			7	B			
		-3				-25				
		3								
		4	2.1							
		5	B							
		3								
		4	2.6							
		6	B							
		-10				-30				
		2								
		3	1.9							
		4	B							
CLAY LOAM-gray-stiff	631.00									
		2				4				
		3	1.3			6	2.2		15	
		5	B			8	B			
		-15				-35				
CLAY-gray-stiff to very stiff	628.50									
		2				4	1.3		20	
		4	B							
		5								
		3								
		4	1.4							
		4	B							
		-20				-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)



GSI Job No. 12245

SOIL BORING LOG

Page 2 of 2

Date 10/29/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY JZ

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH	LOG	UCS	MOS	Surface Water Elev.	DEPTH	LOG	UCS	MOS	
Station	ft	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
CLAY LOAM-gray-stiff to very stiff (continued)										
		3				4				
		4	1.5			6	B		17	
End Of Boring @ -45.0'. Boring backfilled with cuttings.										
		3				5				
		6	3.5			11	B			
		4								
		5	2.1							
		8	B							
		-50				-55				

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)

Notes:
1. For location of soil boring, see Sheet 1 of 18.



USER NAME = kkalite	DESIGNED --	REVISED
	CHECKED --	REVISED
PLOT SCALE = 0"=1' / 1"=	DRAWN LK	REVISED
PLOT DATE = 5/2/2016	DATE 5/6/2016	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS - 2
STRUCTURE NO. 016-2034
SHEET NO. 13 OF 18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	398
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

GSI Job No. 12245 Page 1 of 1 Date 10/29/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY JZ
SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

Table with columns: STRUCT. NO., BORING NO., Description, Depth (ft), and blow counts (B, U, M) with percentages.

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

GSI Job No. 12245 Page 1 of 1 Date 10/24/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY JZ
SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

Table with columns: STRUCT. NO., BORING NO., Description, Depth (ft), and blow counts (B, U, M) with percentages.

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

GSI Job No. 12245 Page 1 of 1 Date 10/24/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY JZ
SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

Table with columns: STRUCT. NO., BORING NO., Description, Depth (ft), and blow counts (B, U, M) with percentages.

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)

Notes: 1. For location of soil boring, see Sheet 2 of 18.



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/23/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY JZ

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH	LOG	UCS	MOS	Surface Water Elev.	DEPTH	LOG	UCS	MOS	
Station	ft	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
4.0" ASPHALT	638.57				n/a					
8.0" CONCRETE	637.90				n/a					
CRUSHED BRICK & STONE-loose (Fill)		4		12			3		1.1	18
		3					6		B	
	635.90									
CLAY-gray-stiff		2					3			
		3	1.2	23			5	1.5	B	21
		4	B				6			
					613.90	-25				
		2								
		3	1.3	22						
		3	B							
		2								
		3	1.3	23						
		3	B							
		2								
		3	1.3	21						
		4	B							
		3								
		4	1.3	20						
		5	B							
		3								
		3	1.3	20						
		5	B							
		3								
		4	1.5	19						
		5	B							

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)



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 1

Date 10/23/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY JZ

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH	LOG	UCS	MOS	Surface Water Elev.	DEPTH	LOG	UCS	MOS	
Station	ft	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
5.5" ASPHALT	637.54				n/a					
8.5" CONCRETE	636.83				n/a					
CRUSHED BRICK & STONE-loose		5		11			3		1.8	21
		3					6		B	
	635.00									
CLAY-gray-stiff to very stiff		1					7			
		3	2.1	23			9	1.7	B	21
		3	B				11			
					613.00	-25				
		3								
		5	1.5	23						
		6	B							
		3								
		3	1.0	24						
		5	B							
		2								
		3	3.0	22						
		5	P							
		2								
		4	1.8	20						
		5	B							
		3								
		4	1.2	21						
		5	B							
		2								
		3	1.3	22						
		5	B							

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)



GSI Job No. 12245

SOIL BORING LOG

Page 1 of 2

Date 10/23/13

ROUTE -- DESCRIPTION I-90 Retaining Walls (Canfield Ave. to Harlem Ave.) LOGGED BY JZ

SECTION -- LOCATION SW 1/4, SEC. 1, TWP. T40N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH	LOG	UCS	MOS	Surface Water Elev.	DEPTH	LOG	UCS	MOS	
Station	ft	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
5.5" ASPHALT	637.54				n/a					
8.5" CONCRETE	636.83				n/a					
CRUSHED BRICK & STONE-medium dense		6		9			2		1.4	19
		7					5		B	
	635.00									
CLAY-gray-stiff to very stiff		3					3			
		4	1.3	23			6	1.5	B	13
		4	B				10			
		3								
		4	1.3	18						
		5	B							
		2								
		4	2.0	21						
		6	B							
		2								
		4	2.2	20						
		5	B							
		2								
		4	1.8	12						
		5	B							
		3								
		3	1.0	19						
		6	B							
		3								
		3	1.0	23						
		4	B							

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)

Notes:
1. For location of soil boring, see Sheets 2 & 3 of 18.



USER NAME = kelite	DESIGNED --	REVISED
	CHECKED --	REVISED
PLOT SCALE = 0:1" = 1'-0"	DRAWN LK	REVISED
PLOT DATE = 5/2/2016	DATE 5/6/2016	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS - 4
STRUCTURE NO. 016-2034

SHEET NO. 15 OF 18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-3	COOK	557	400
CONTRACT NO. 60Y38				
ILLINOIS FED. AID PROJECT				