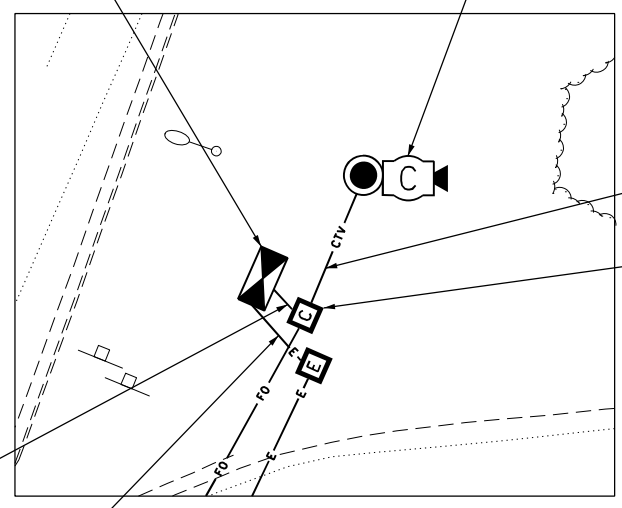


**GROUND-MOUNTED CABINET (1) [CAB-ED-003A]**  
**-F.O. TERMINATION PANEL (1) [PPF-ED-003A]**  
**(12) TERMINATE FIBER (1)**  
**-LAYER 3 (NETWORK) SWITCH (1)**  
**-CCTV EQUIPMENT (1)**

**CCTV CAMERA POLE, STEEL, 80 FT. (1)**  
**-CCTV CAMERA (1) [CCTV-ED-003A]**  
**-CCTV CAMERA LOWERING DEVICE (1)**  
**-CCTV CAMERA POLE FOUNDATION (1) (SEE NOTE 5)**  
**(STA. 206+59, OFFSET 374' RT)**



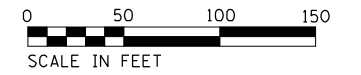
**15 FT. 2 IN. CNC (1)**  
**-FOC 12F SM (1) [LCF-ED-003b]**  
**-CAMERA CABLES (1)**  
**(3) 2 IN. CNC (1)**

**15 FT. 2 IN. CNC (1)**  
**(2) 1/C NO. 6 (1)**  
**-1/C NO. 8 (GRN) (1)**  
**2 IN. CNC (1)**

**30 FT. 2 IN. CNC (1)**  
**-CAMERA CABLES (1)**

**HD HANDHOLE (1) [HHF-ED-003A]**

- NOTES:**
- CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER CABLES.
  - CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE DETECTOR CABLES.
  - CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE POWER CABLES.
  - CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER AND DETECTOR CABLES.
  - SEE SHEET DET-03 FOR 80' CCTV CAMERA POLE FOUNDATION DEPTH.



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USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

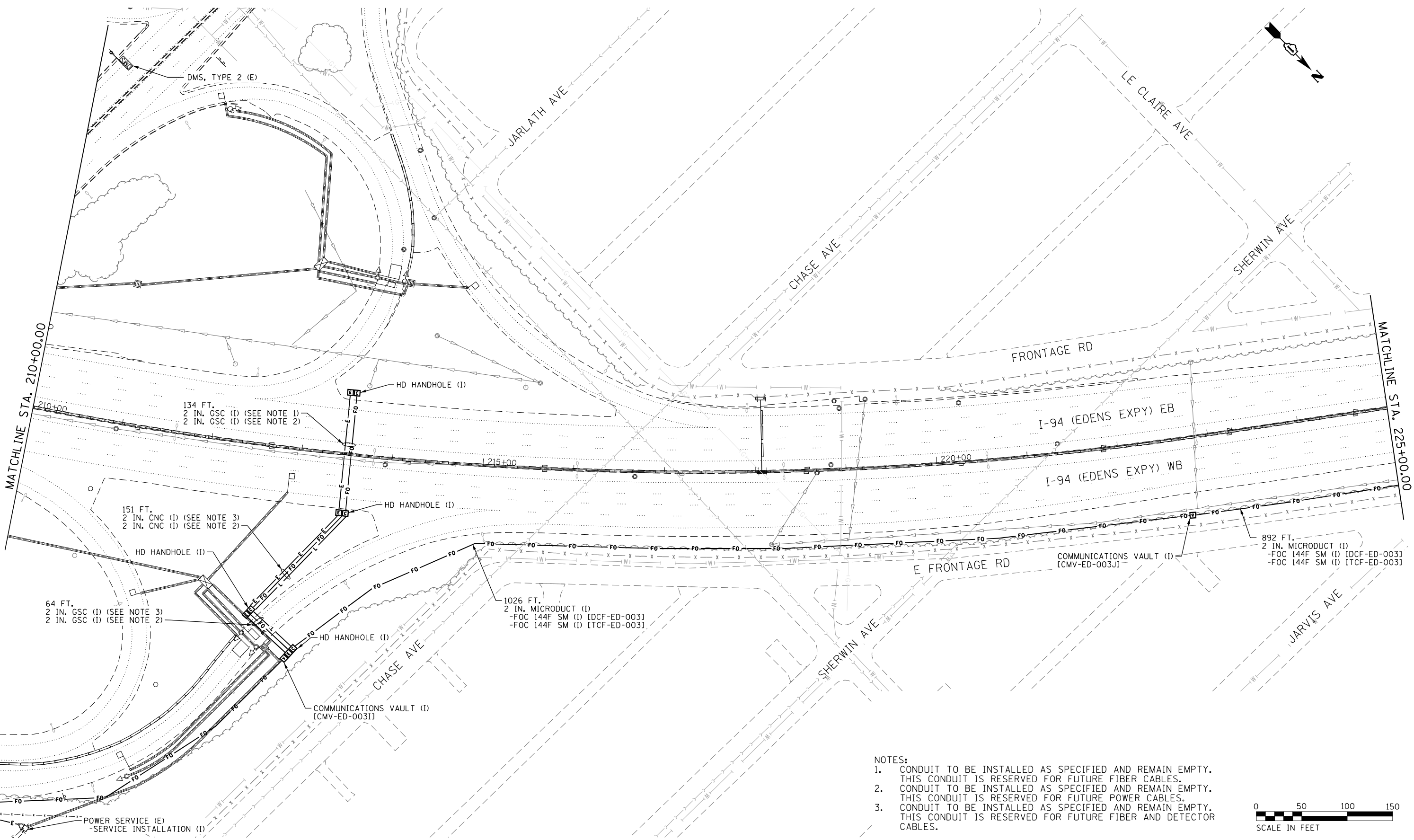
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS**  
**CONSTRUCTION PLANS**

SCALE: 1" = 50' SHEET 23 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	101
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

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- NOTES:**
1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER CABLES.
  2. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE POWER CABLES.
  3. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER AND DETECTOR CABLES.



**Jacobs**

USER NAME = zvoianjj	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

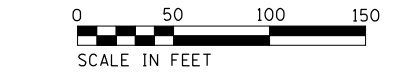
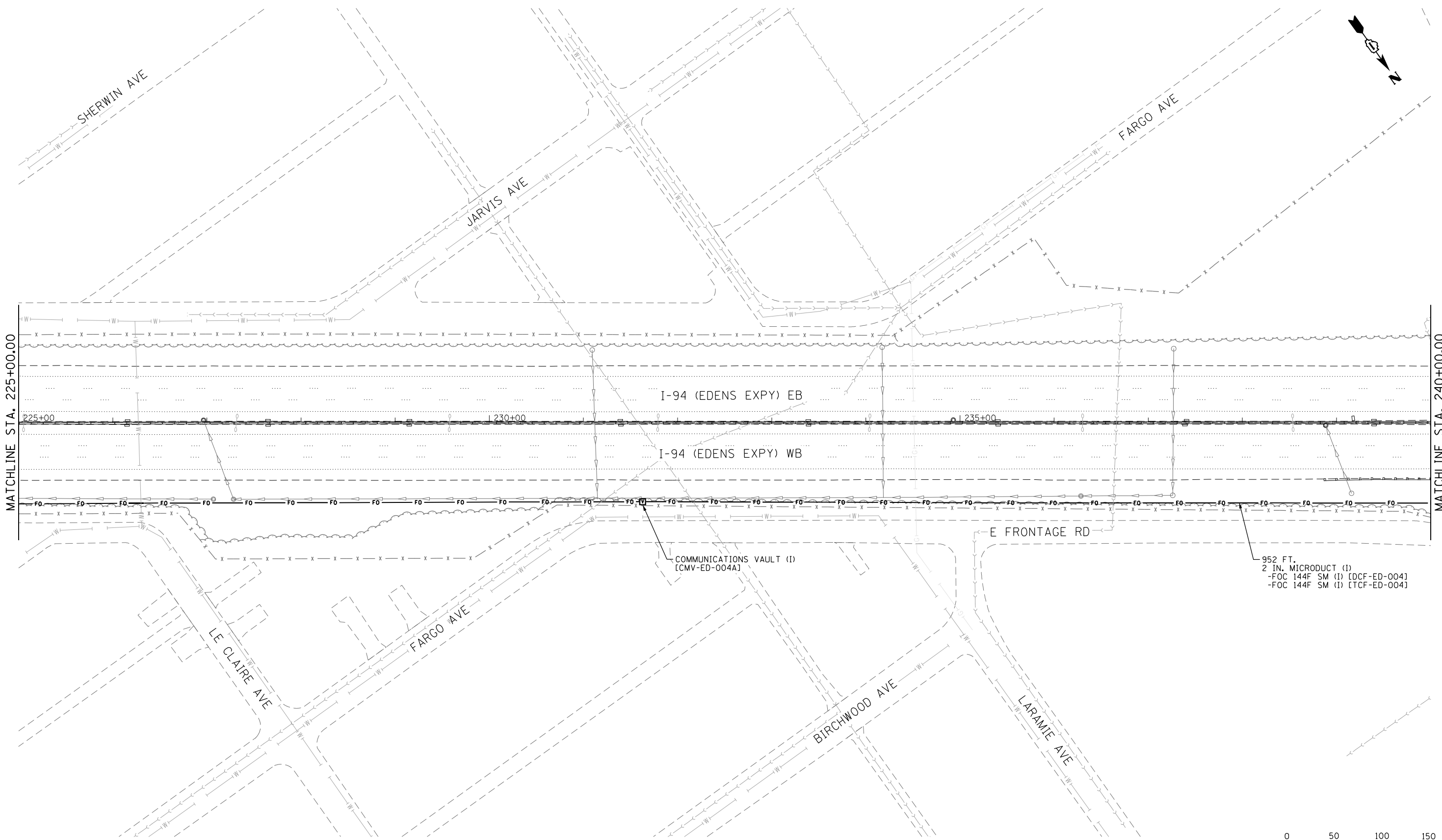
**INTELLIGENT TRANSPORTATION SYSTEMS  
CONSTRUCTION PLANS**

SCALE: 1" = 50' SHEET 24 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	102
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-24

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ITS-25



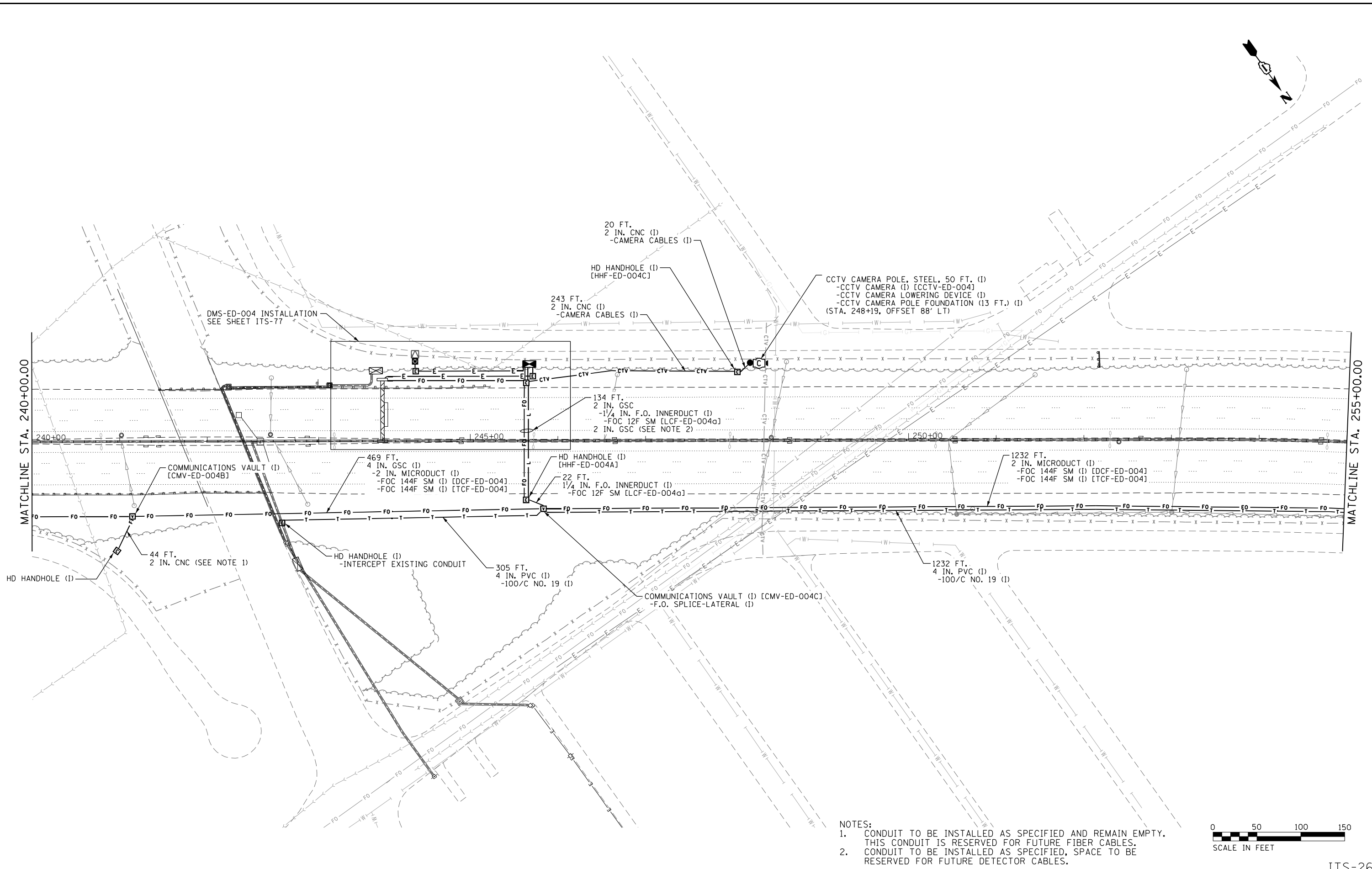
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PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

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

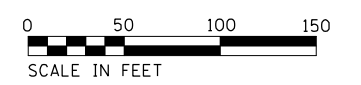
**INTELLIGENT TRANSPORTATION SYSTEMS**  
**CONSTRUCTION PLANS**  
 SCALE: 1" = 50' SHEET 25 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	103
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	

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- NOTES:
- CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER CABLES.
  - CONDUIT TO BE INSTALLED AS SPECIFIED, SPACE TO BE RESERVED FOR FUTURE DETECTOR CABLES.



**Jacobs**

USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS  
CONSTRUCTION PLANS**

SCALE: 1" = 50' SHEET 26 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	104
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-26



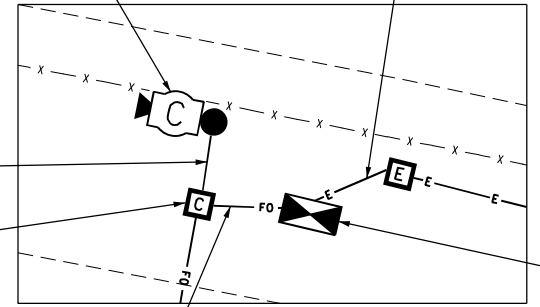
CCTV CAMERA POLE, STEEL, 50 FT. (1)  
 -CCTV CAMERA (1) [CCTV-ED-004A]  
 -CCTV CAMERA LOWERING DEVICE (1)  
 -CCTV CAMERA POLE FOUNDATION (13 FT.) (1)  
 (STA. 269+33, OFFSET 89' LT)

20 FT.  
 2 IN. CNC (1)  
 -(2) 1/C NO. 2 (1)  
 -1/C NO. 2 (GRN) (1)  
 2 IN. CNC (1)

15 FT.  
 2 IN. CNC (1)  
 -CAMERA CABLES (1)

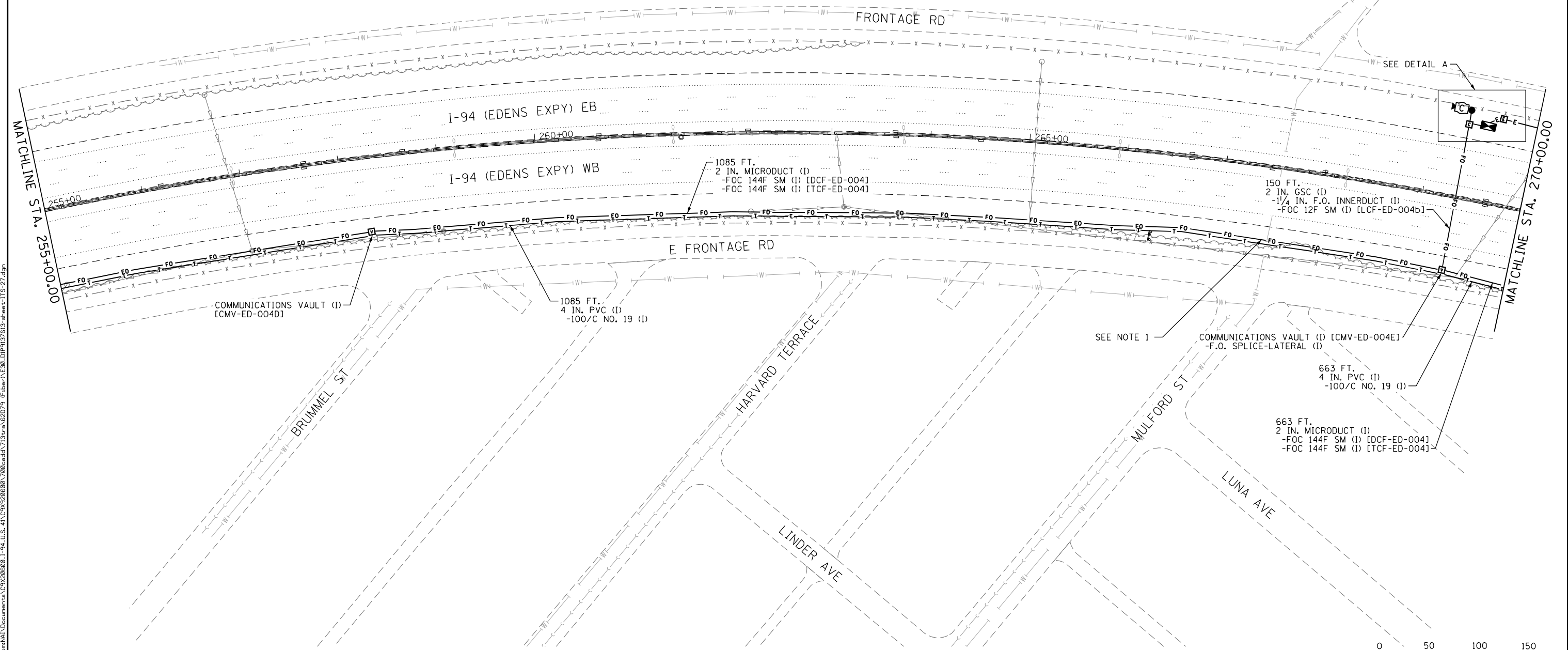
HD HANDHOLE (1)  
 [HHF-ED-004D]

20 FT.  
 2 IN. CNC (1)  
 -FOC 12F SM (1) [LCF-ED-004b]  
 -CAMERA CABLES (1)  
 (3) 2 IN. CNC (1)

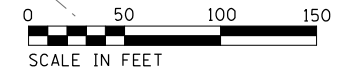


**DETAIL A**  
 NOT TO SCALE

GROUND-MOUNTED CABINET (1) [CAB-ED-004A]  
 -F.O. TERMINATION PANEL (1) [PPF-ED-004A]  
 -(12) TERMINATE FIBER (1)  
 -LAYER 3 (NETWORK) SWITCH (1)  
 -CCTV EQUIPMENT (1)



NOTE:  
 1. NATURAL GAS PIPELINE CROSSING IN MULFORD STREET RIGHT OF WAY. NO CONFLICT ANTICIPATED. APPROXIMATE CLEARANCE > 10'. CONTRACTOR SHALL BE AWARE OF KINDER MORGAN OPERATED FACILITY REQUIREMENTS INCLUDED IN SPECIFICATIONS.



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**Jacobs**

USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
PLLOT SCALE =	DRAWN - HAR	REVISED -
PLLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

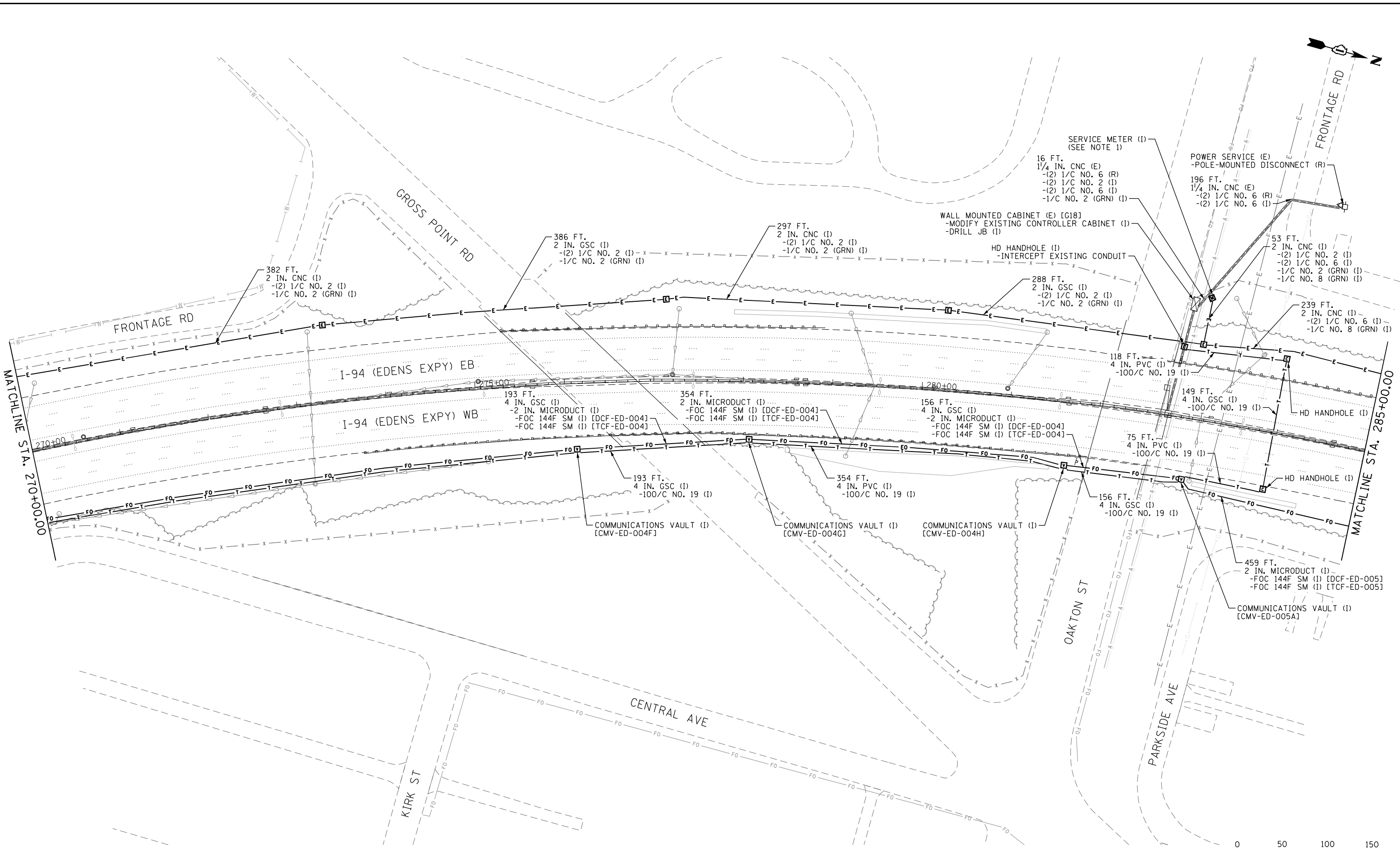
**INTELLIGENT TRANSPORTATION SYSTEMS  
 CONSTRUCTION PLANS**

SCALE: 1" = 50' SHEET 27 OF 82 SHEETS STA. TO STA.

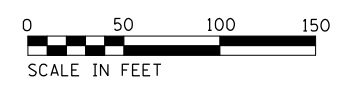
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	105
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-27

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NOTES:  
 1. SEE SHEET PWR-03 FOR SERVICE METER RETROFIT DETAILS.



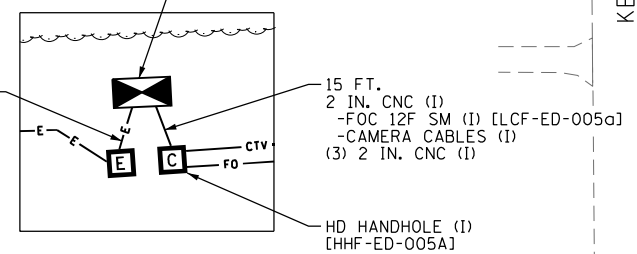
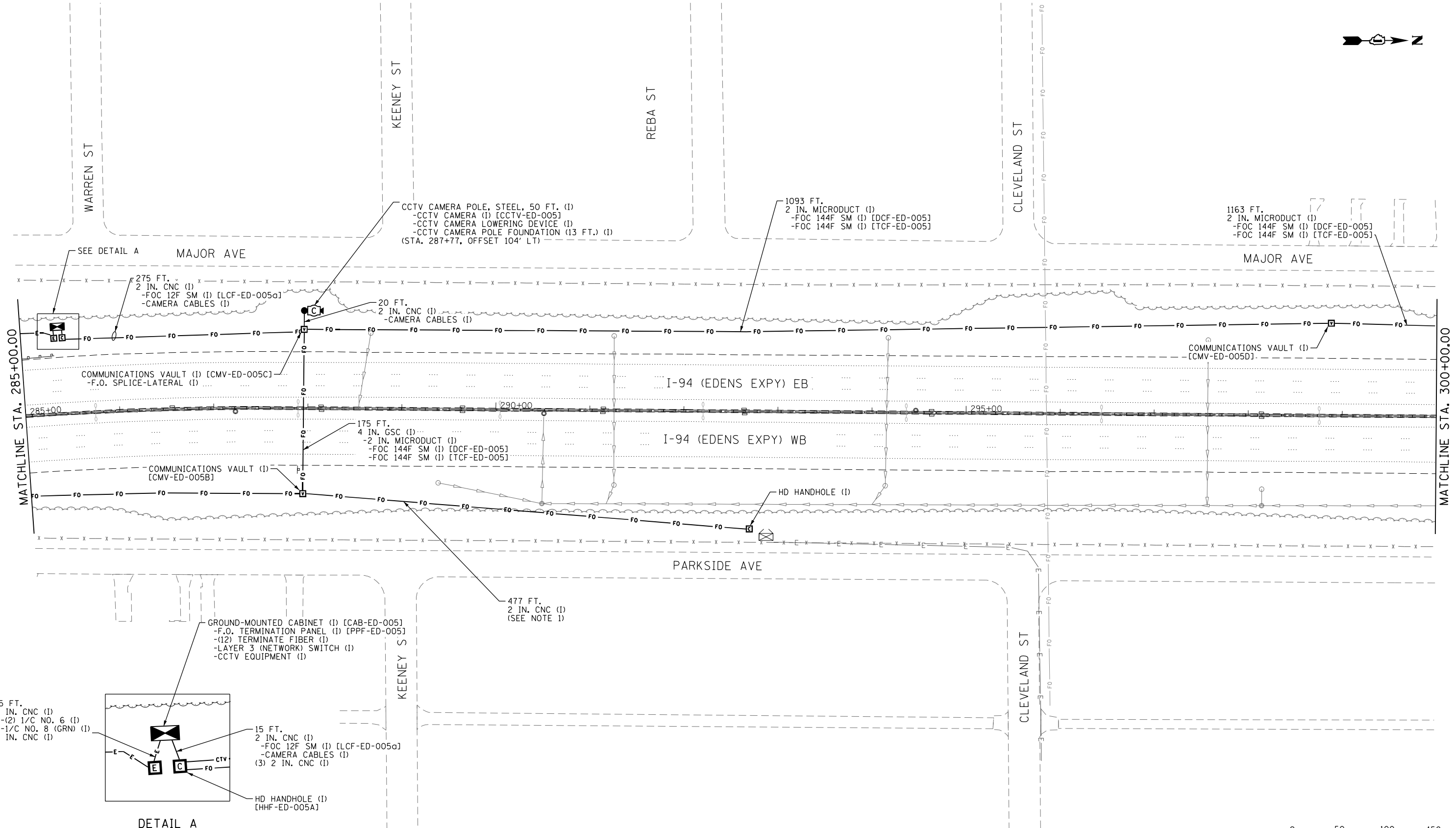
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DRAWN - HAR	REVISIONS -	
PLOT SCALE =	CHECKED - CRH	REVISIONS -
PLOT DATE = 7/19/2021	DATE - 02/28/2020	REVISIONS -

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

**INTELLIGENT TRANSPORTATION SYSTEMS**  
**CONSTRUCTION PLANS**  
 SCALE: 1" = 50' SHEET 28 OF 82 SHEETS STA. TO STA.

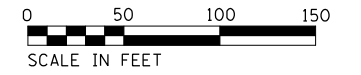
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-06B1	COOK/LAKE	388	106
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-28



**DETAIL A**  
NOT TO SCALE

NOTES:  
1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER CABLES.



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USER NAME = zvoianj	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

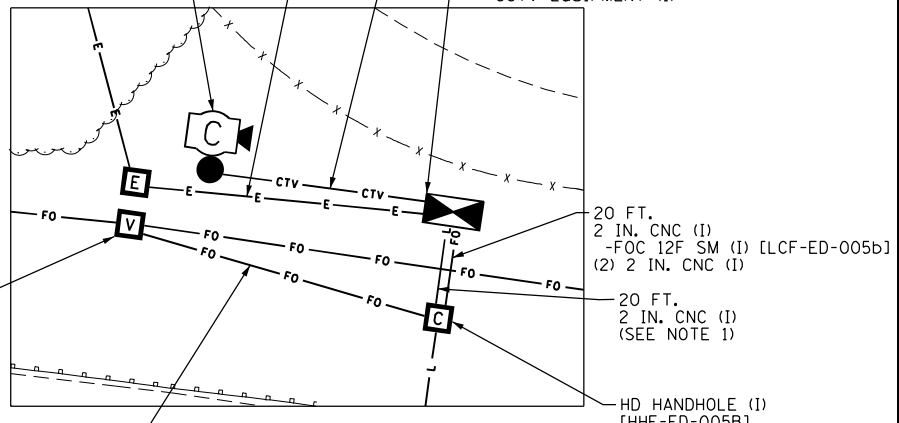
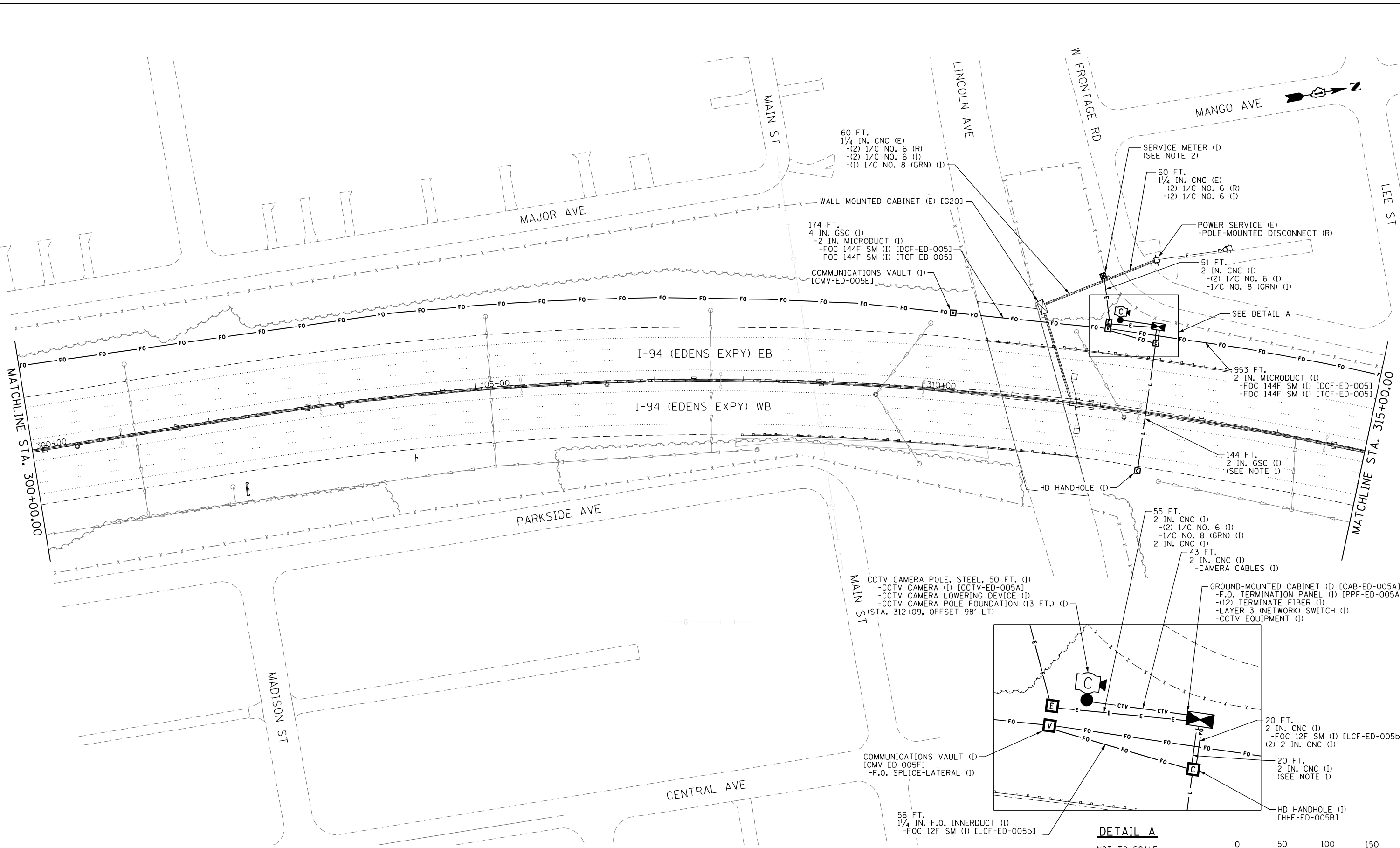
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS  
CONSTRUCTION PLANS**

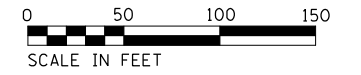
SCALE: 1" = 50' SHEET 29 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0681	COOK/LAKE	388	107
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

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**DETAIL A**  
NOT TO SCALE



- NOTES:**
- CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE DETECTOR CABLES.
  - SEE SHEET PWR-03 FOR SERVICE METER RETROFIT DETAILS.



USER NAME = BREITEMF	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

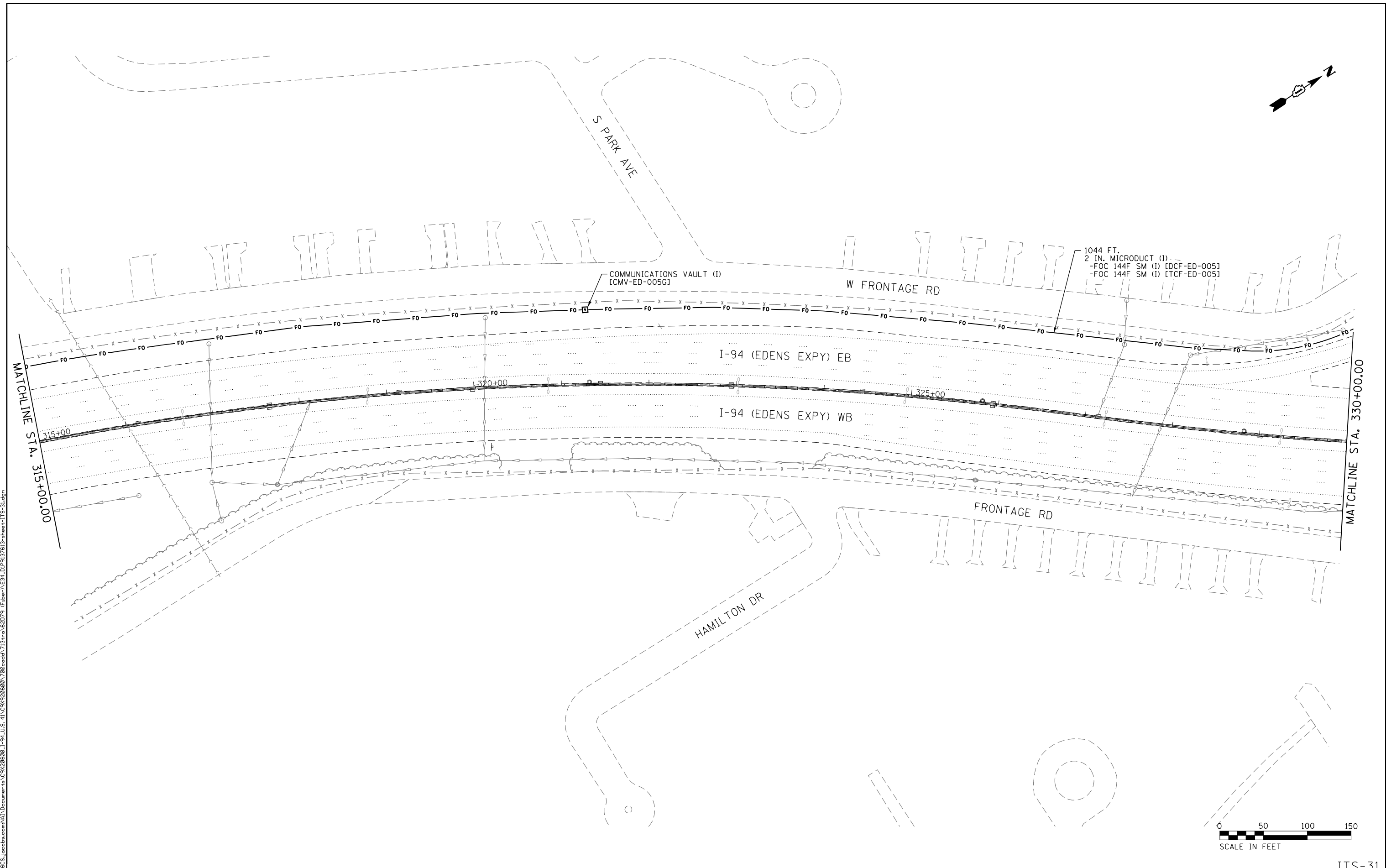
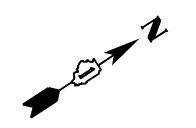
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS  
CONSTRUCTION PLANS**

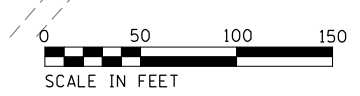
SCALE: 1" = 50' SHEET 30 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-06B1	COOK/LAKE	388	108
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-30



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ITS-31

**Jacobs**

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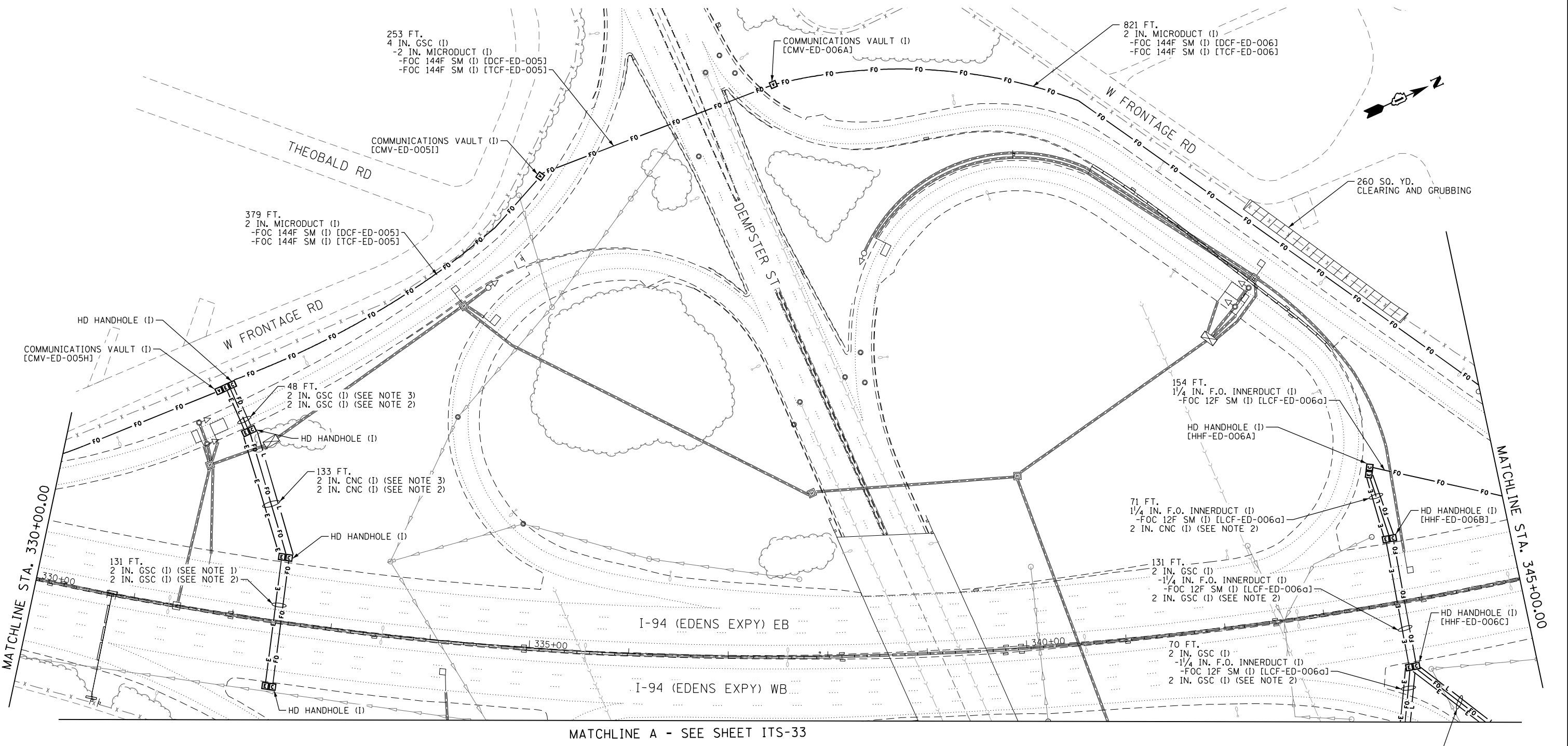
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS  
CONSTRUCTION PLANS**

SCALE: 1" = 50' SHEET 31 OF 82 SHEETS STA. TO STA.

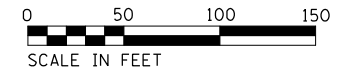
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	109
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	

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MATCHLINE A - SEE SHEET ITS-33

- NOTES:
1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER CABLES.
  2. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE POWER CABLES.
  3. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER AND DETECTOR CABLES.



USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
	DRAWN - HAR	REVISED -
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

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

**INTELLIGENT TRANSPORTATION SYSTEMS**  
**CONSTRUCTION PLANS**

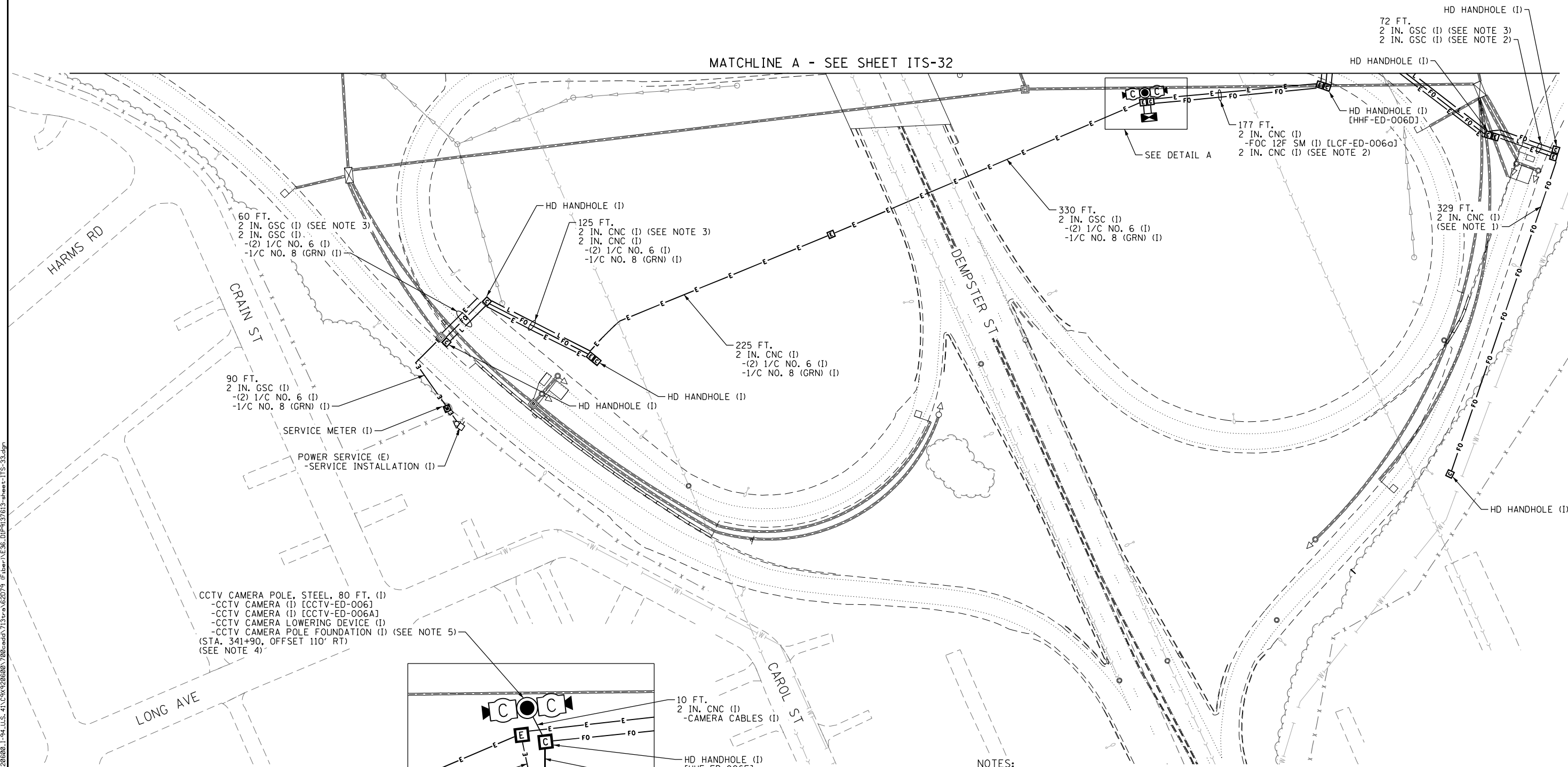
SCALE: 1" = 50' SHEET 32 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-06B1	COOK/LAKE	388	110
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

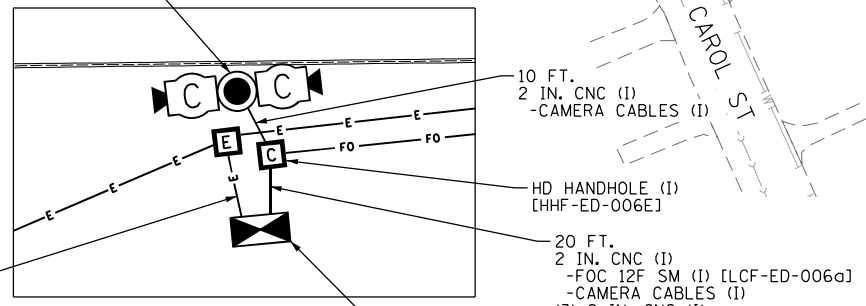
ITS-32



MATCHLINE A - SEE SHEET ITS-32

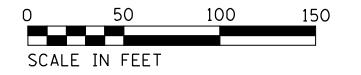


CCTV CAMERA POLE, STEEL, 80 FT. (1)  
 -CCTV CAMERA (1) [CCTV-ED-006]  
 -CCTV CAMERA (1) [CCTV-ED-006A]  
 -CCTV CAMERA LOWERING DEVICE (1)  
 -CCTV CAMERA POLE FOUNDATION (1) (SEE NOTE 5)  
 (STA. 341+90, OFFSET 110' RT)  
 (SEE NOTE 4)



**DETAIL A**  
 NOT TO SCALE

- NOTES:**
1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER CABLES.
  2. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE POWER CABLES.
  3. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER AND DETECTOR CABLES.
  4. NEW CCTV CAMERAS TO BE INSTALLED 20 FEET ABOVE GRADE AND 80 FEET ABOVE GRADE.
  5. SEE SHEET DET-03 FOR 80' CCTV CAMERA POLE FOUNDATION DEPTH.



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**Jacobs**

USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

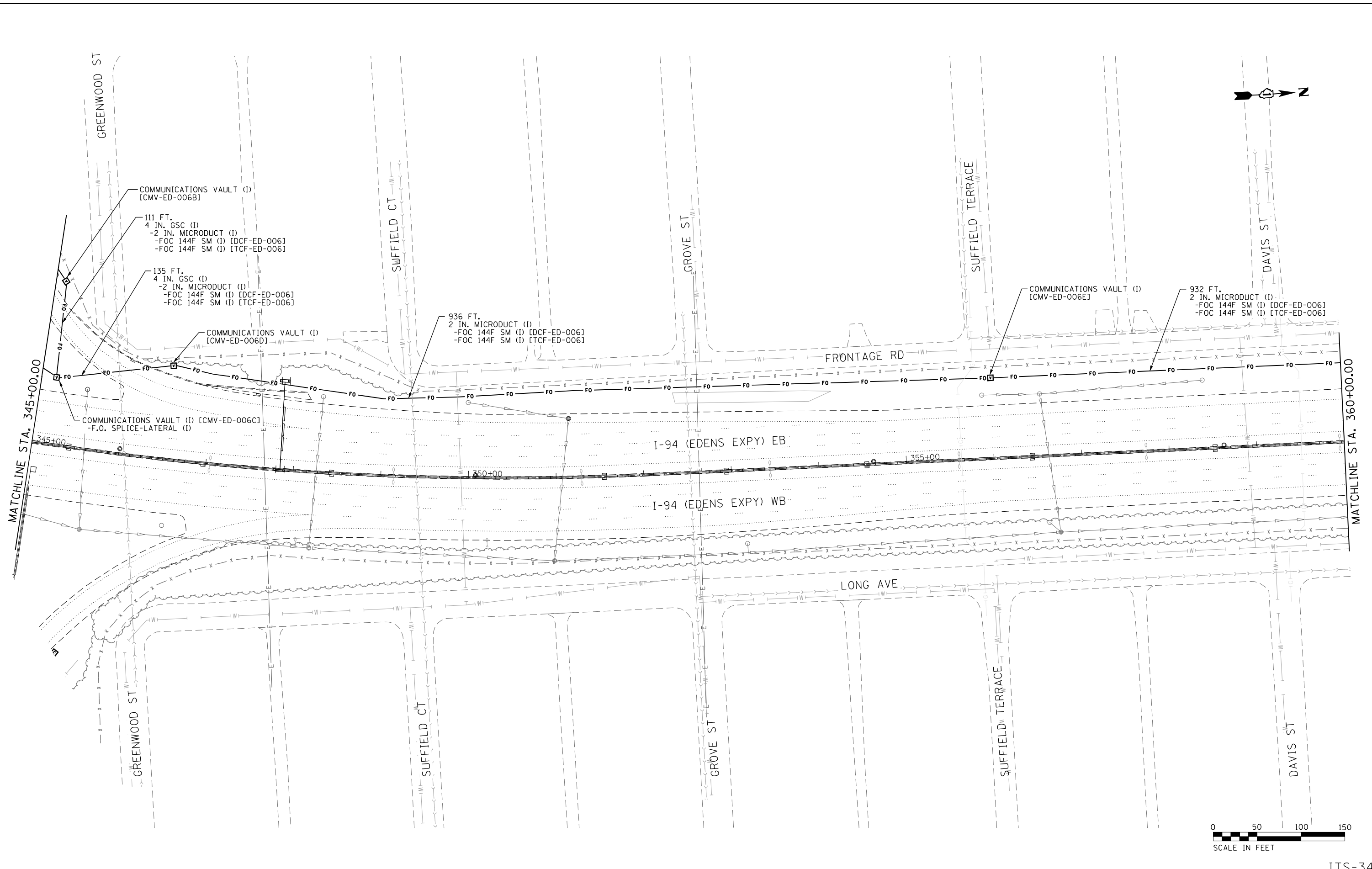
**INTELLIGENT TRANSPORTATION SYSTEMS  
 CONSTRUCTION PLANS**

SCALE: 1" = 50' SHEET 33 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	111
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-33

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**Jacobs**

USER NAME = BREITEMF	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS  
CONSTRUCTION PLANS**

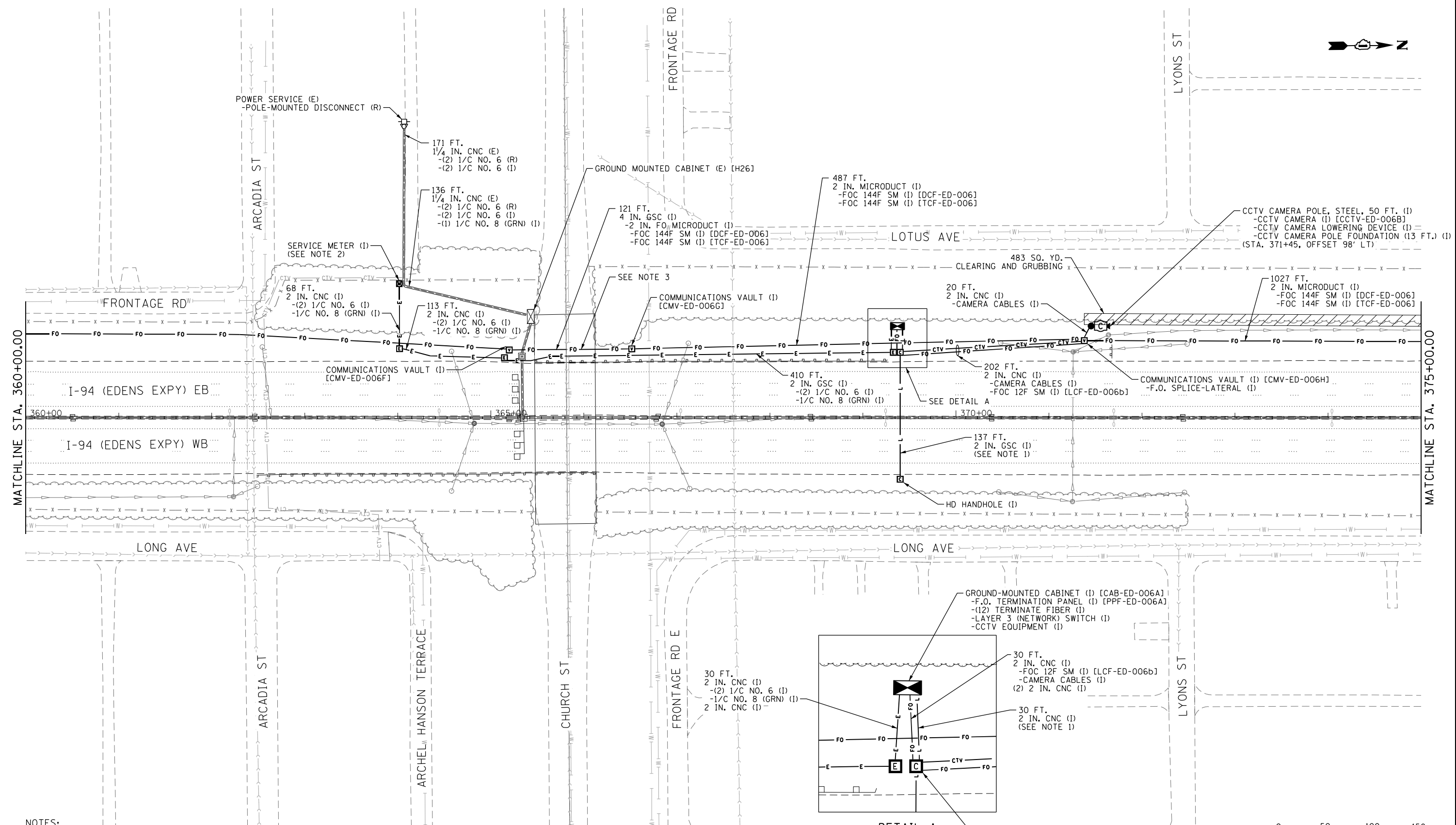
SCALE: 1" = 50' SHEET 34 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	112
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

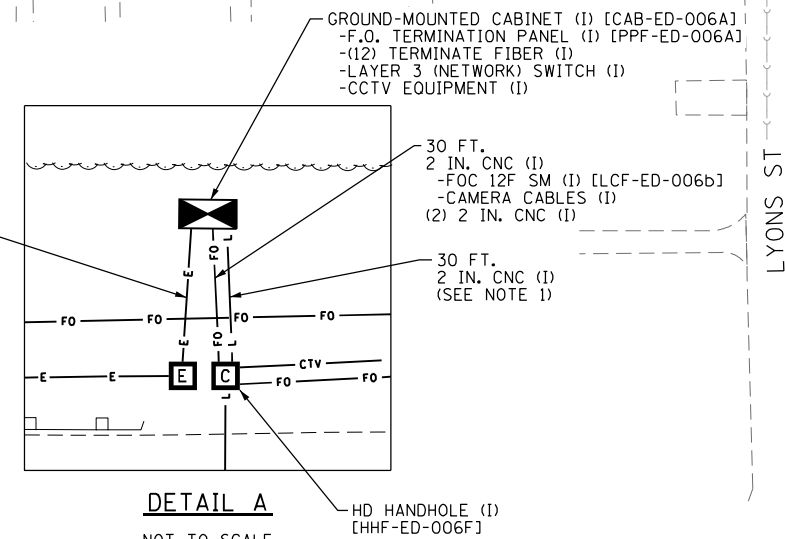
ITS-34



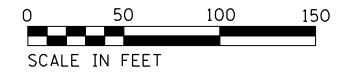
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- NOTES:**
1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE DETECTOR CABLES.
  2. SEE SHEET PWR-03 FOR SERVICE METER RETROFIT DETAILS.
  3. 60 INCH NORTHWEST CHURCH COMMISSION WATER MAIN APPROX. ON CENTERLINE OF CHURCH STREET.



**DETAIL A**  
NOT TO SCALE



USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
	DRAWN - HAR	REVISED -
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

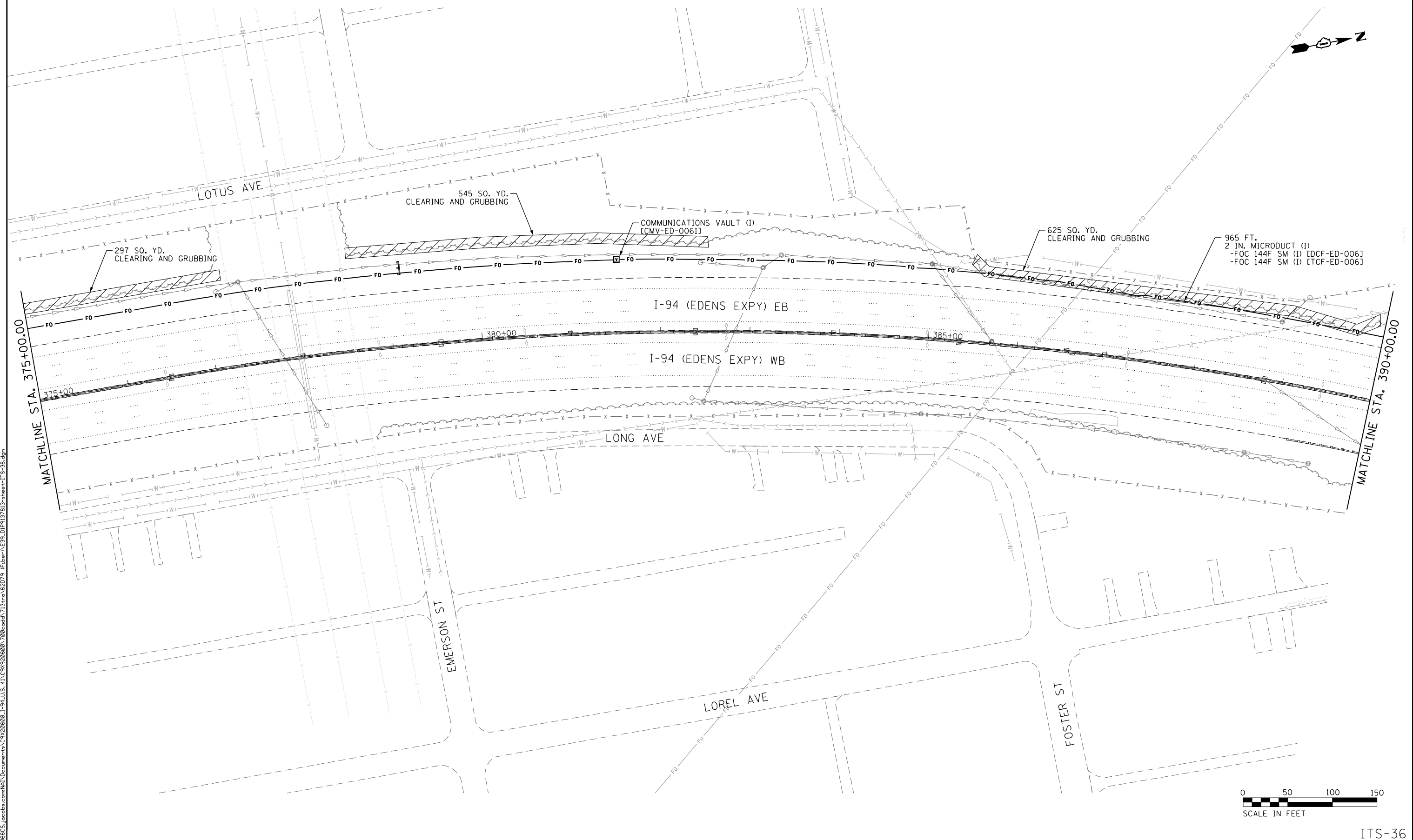
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS**  
**CONSTRUCTION PLANS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-06B1	COOK/LAKE	388	113
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

SCALE: 1" = 50' SHEET 35 OF 82 SHEETS STA. TO STA.

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**Jacobs**

USER NAME = BREITEMF	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

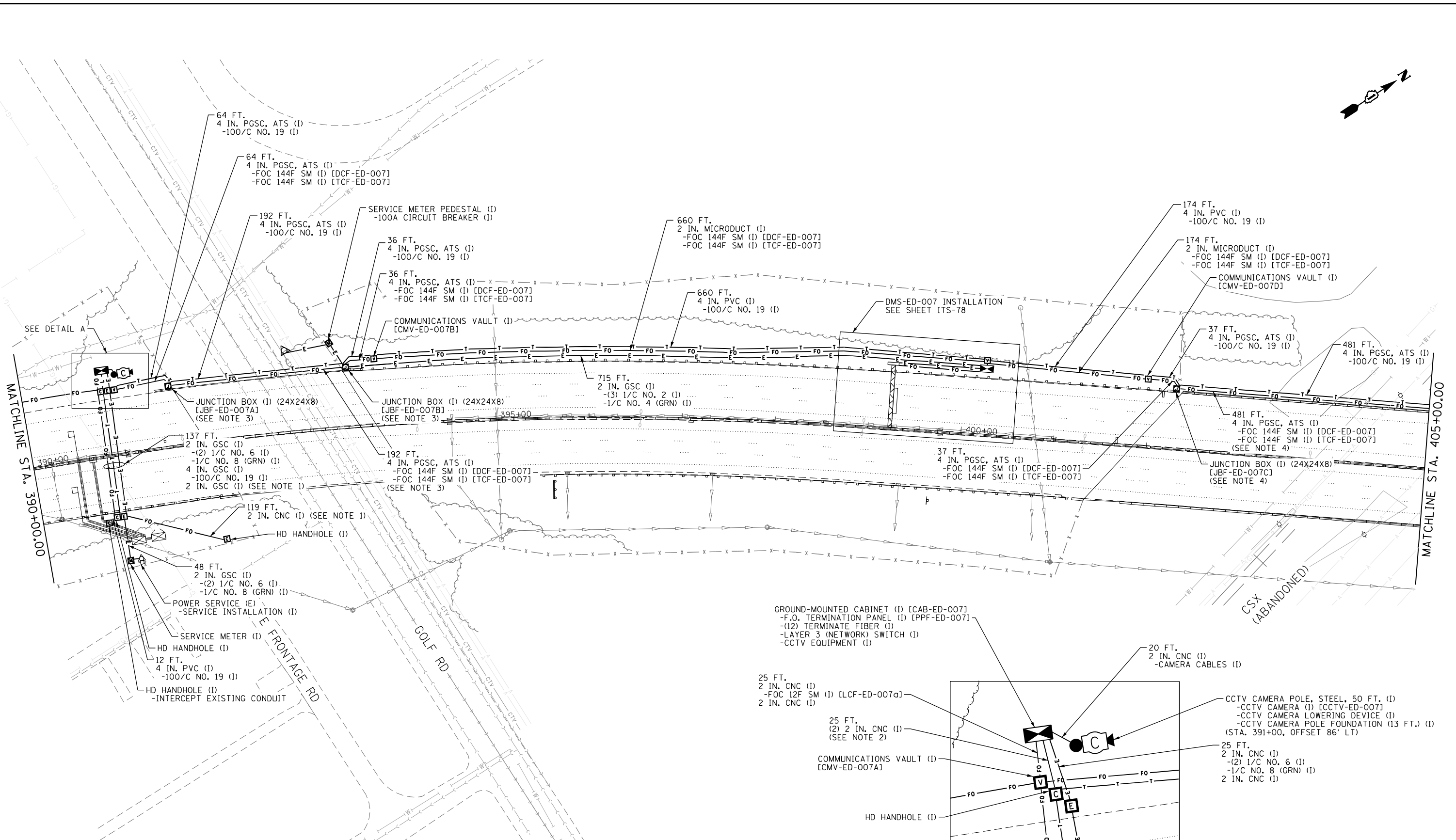
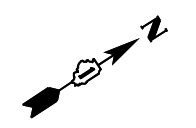
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS**  
**CONSTRUCTION PLANS**

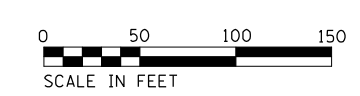
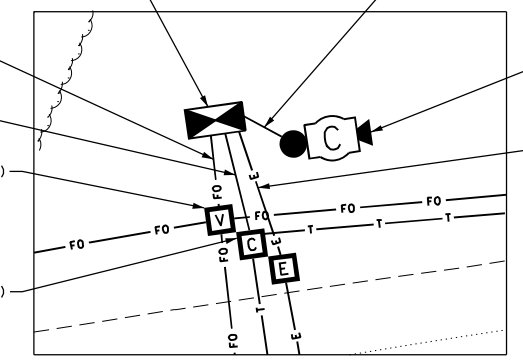
SCALE: 1" = 50'    SHEET 36    OF 82 SHEETS STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	114
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-36



- NOTES:
- CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER CABLES.
  - CONDUIT TO BE INSTALLED AS SPECIFIED, SPACE TO BE RESERVED FOR FUTURE DETECTOR CABLES.
  - SEE GOLF ROAD CROSSING SHEET STR-07.
  - SEE CSX RAILWAY CROSSING SHEET STR-08.



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USER NAME = BREITEMF	DESIGNED - JJZ	REVISED - 07/14/2021
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

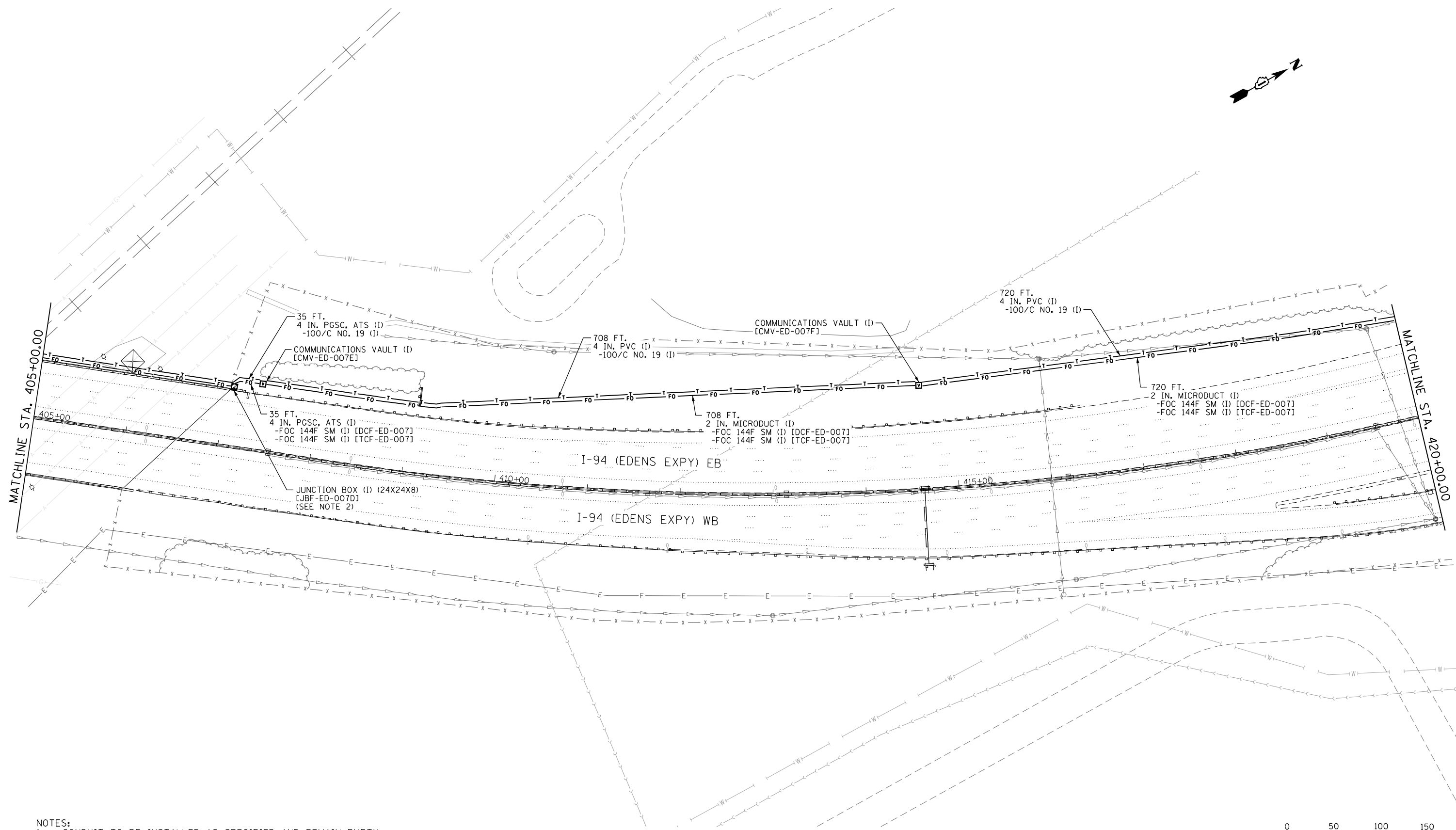
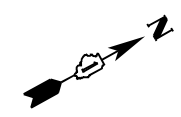
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS  
CONSTRUCTION PLANS**

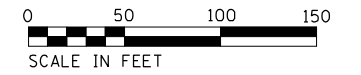
SCALE: 1" = 50' SHEET 37 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0681	COOK/LAKE	388	115
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-37



- NOTES:  
 1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER CABLES.  
 2. SEE CSX RAILWAY CROSSING SHEET STR-08.  
 3. CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS



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USER NAME = BREITEMF	DESIGNED - JJZ	REVISED - 07/14/2021
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

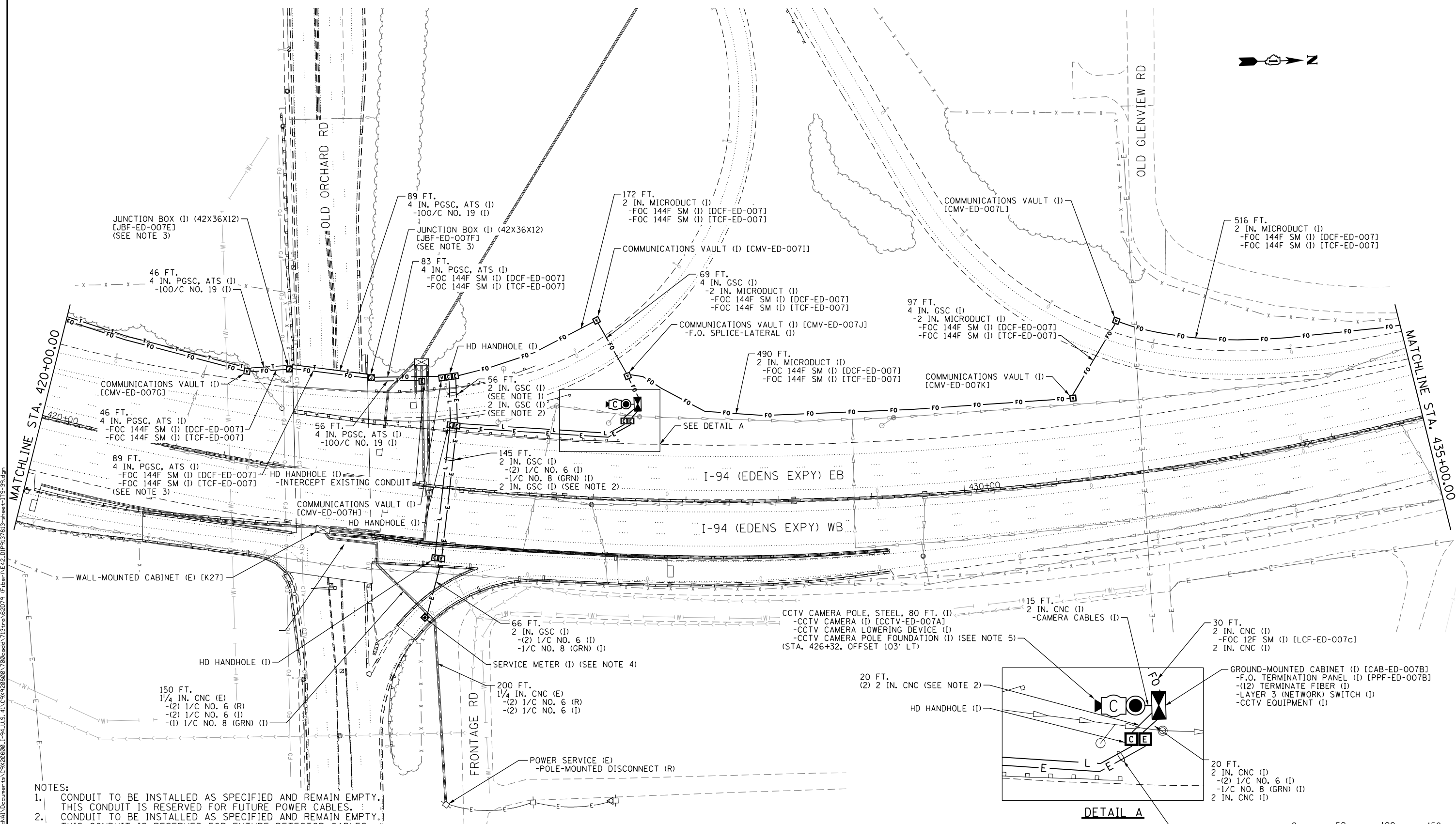
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS  
CONSTRUCTION PLANS**

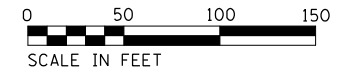
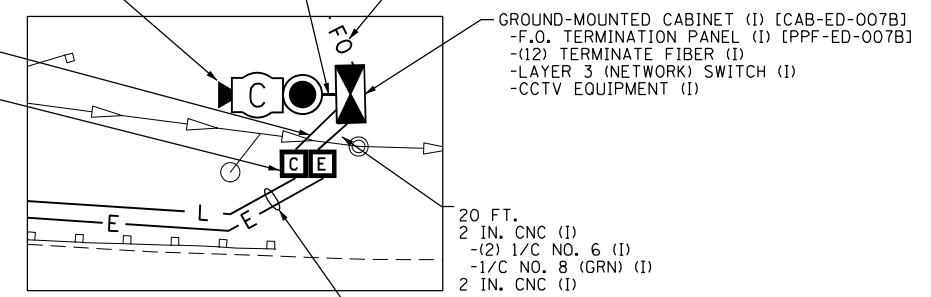
SCALE: 1" = 50' SHEET 38 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	116
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

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- NOTES:**
- CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE POWER CABLES.
  - CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE DETECTOR CABLES.
  - SEE OLD ORCHARD ROAD CROSSING SHEET STE-21.
  - SEE SHEET PWR-03 FOR SERVICE METER RETROFIT DETAILS.
  - SEE SHEET DET-03 FOR 80' CCTV CAMERA POLE FOUNDATION DEPTH.



**Jacobs**

USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

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

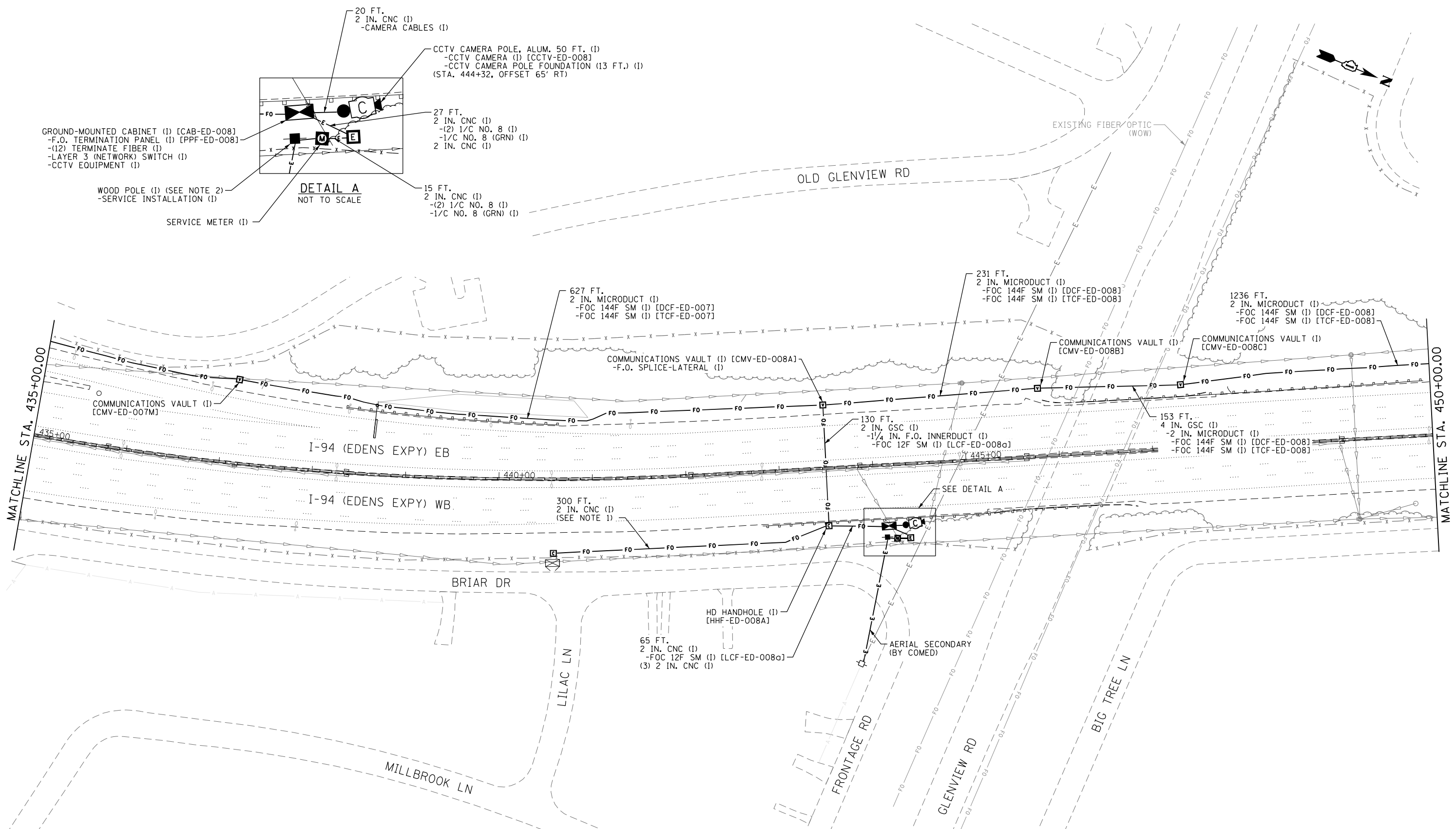
**INTELLIGENT TRANSPORTATION SYSTEMS**  
**CONSTRUCTION PLANS**

SCALE: 1" = 50' SHEET 39 OF 82 SHEETS STA. TO STA.

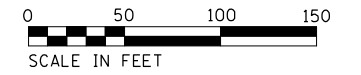
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	117
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-39

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- NOTES:
- CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER CABLES.
  - THE WOOD POLE SHALL BE 30 FT., CLASS 4 (MINIMUM), AND IS INCLUDED IN THE PRICE OF THE ITEM "ELECTRIC SERVICE INSTALLATION".



USER NAME = BREITEMF	DESIGNED - JJZ	REVISED - 07/14/2021
DRAWN - HAR	REVISED -	
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 7/19/2021	DATE - 02/28/2020	REVISED -

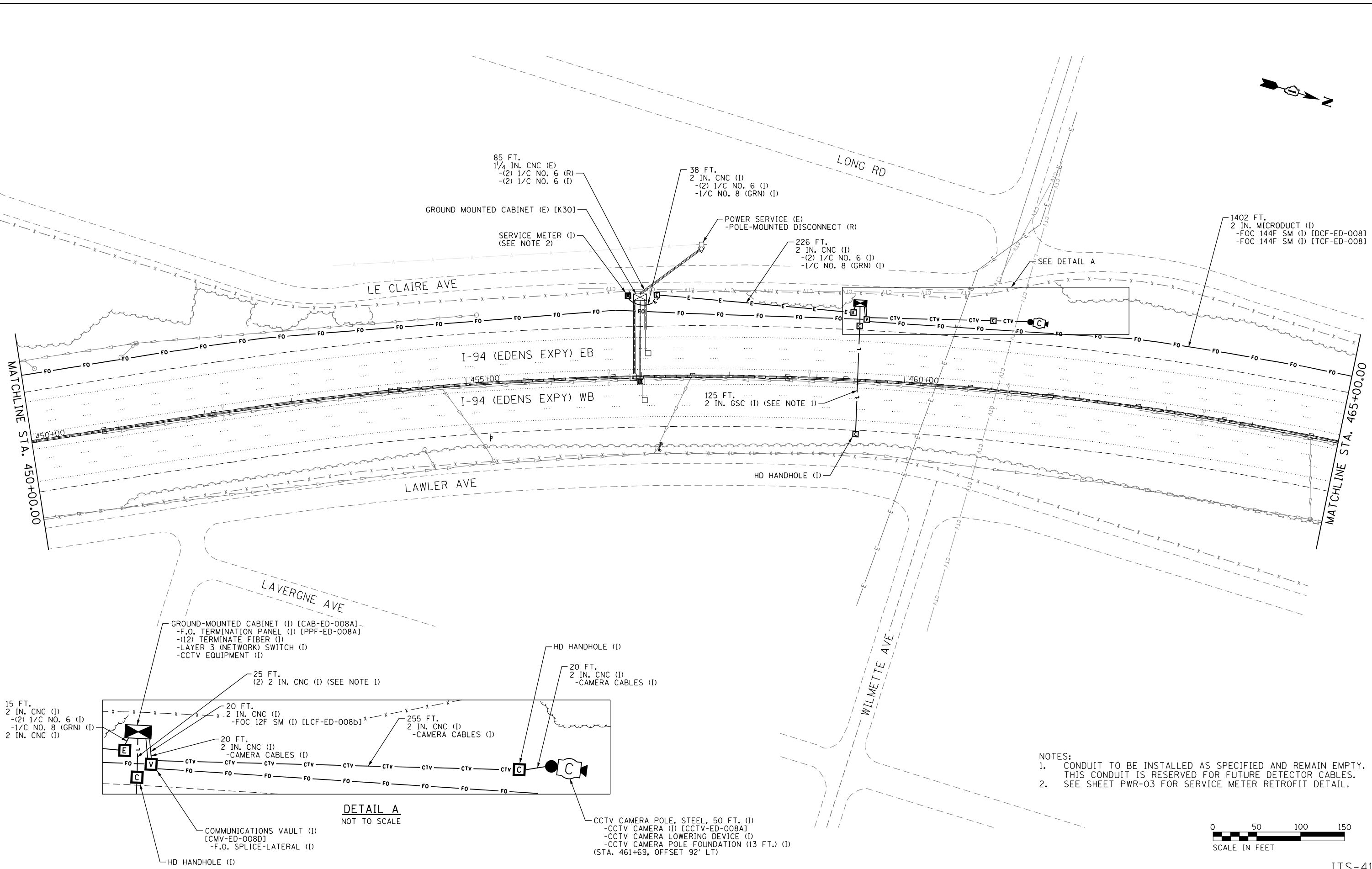
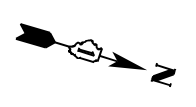
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS**  
**CONSTRUCTION PLANS**

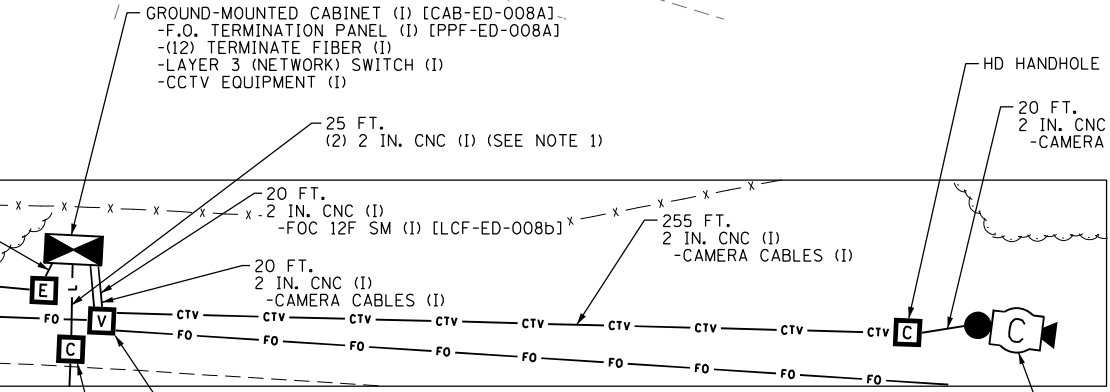
SCALE: 1" = 50' SHEET 40 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	118
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-40



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- NOTES:
- CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE DETECTOR CABLES.
  - SEE SHEET PWR-03 FOR SERVICE METER RETROFIT DETAIL.



**Jacobs**

USER NAME = zvolanjj  
 PLOT SCALE =  
 PLOT DATE = 2/27/2020

DESIGNED - JJZ  
 DRAWN - HAR  
 CHECKED - CRH  
 DATE - 02/28/2020

REVISED -  
 REVISED -  
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 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

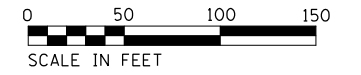
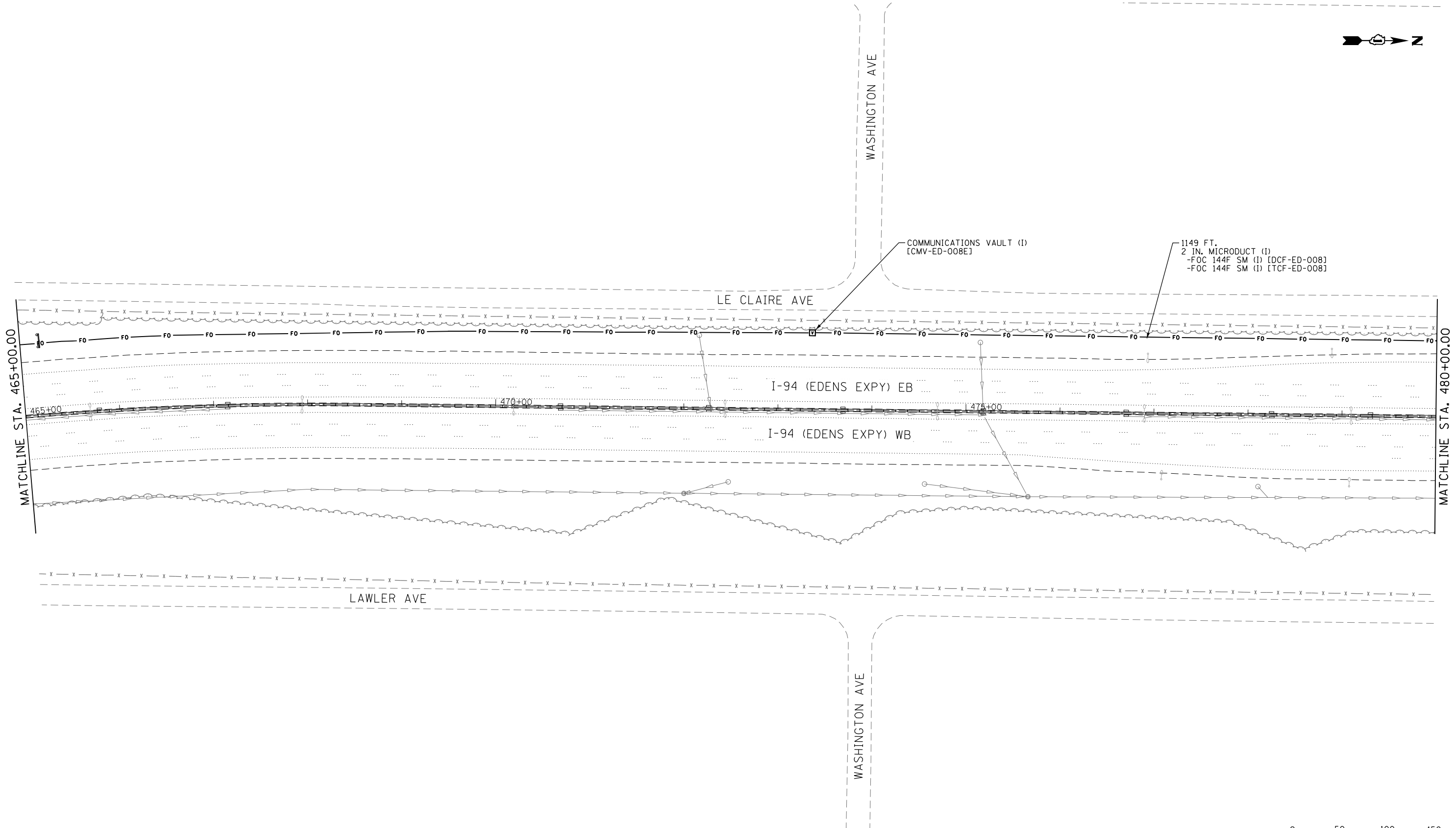
**INTELLIGENT TRANSPORTATION SYSTEMS  
 CONSTRUCTION PLANS**

SCALE: 1" = 50' SHEET 41 OF 82 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	119
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	

ITS-41

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**Jacobs**

USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
	DRAWN - HAR	REVISED -
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS  
CONSTRUCTION PLANS**

SCALE: 1" = 50' SHEET 42 OF 82 SHEETS STA. TO STA.

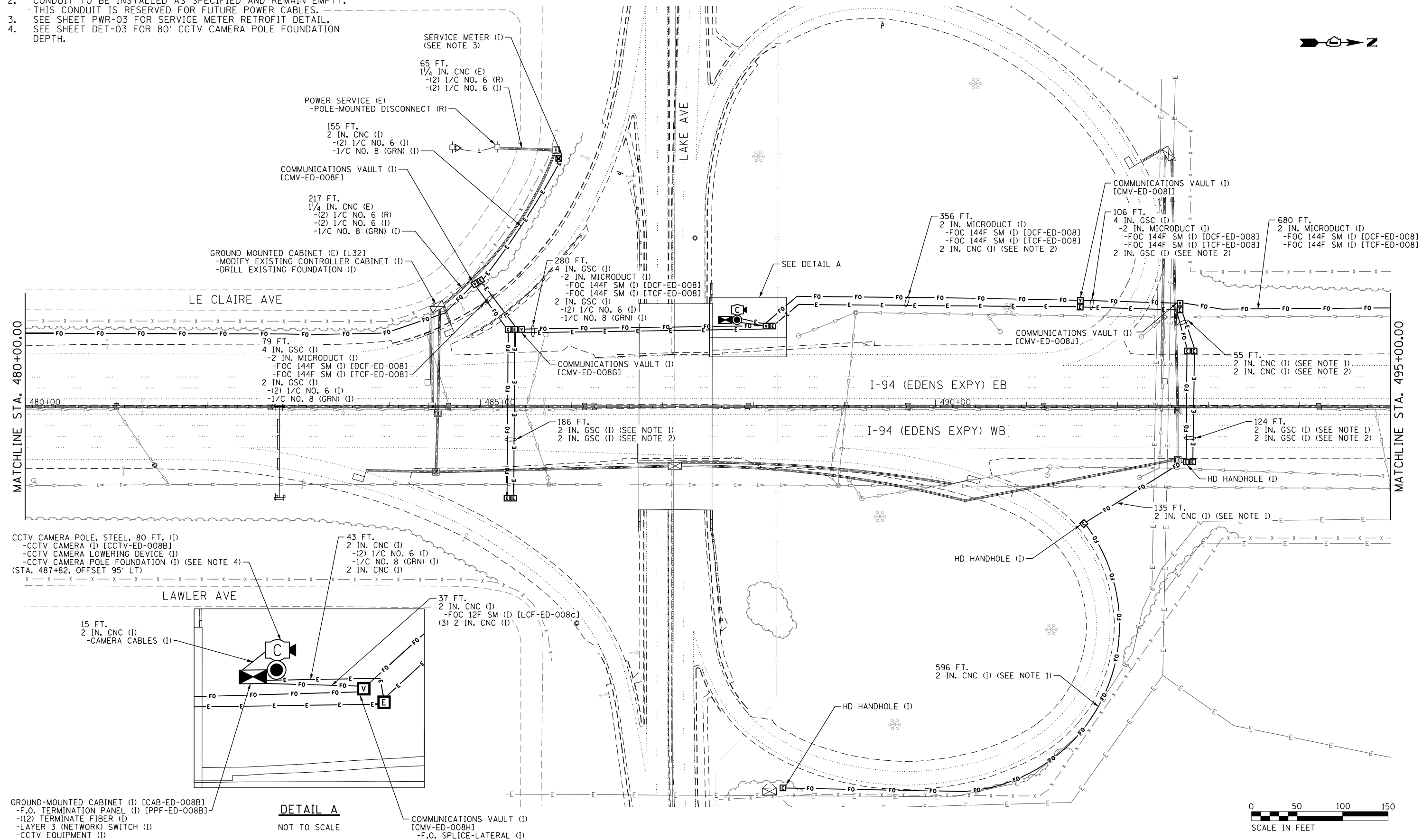
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	120
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	

ITS-42

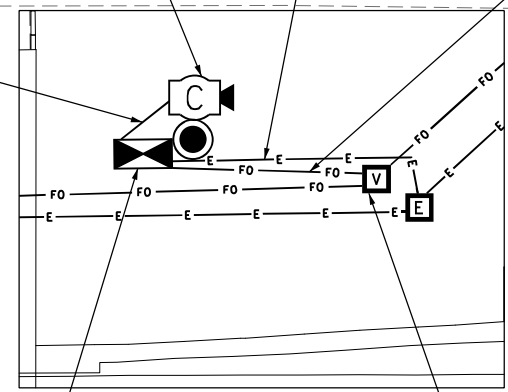


**NOTES:**

1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER CABLES.
2. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE POWER CABLES.
3. SEE SHEET PWR-03 FOR SERVICE METER RETROFIT DETAIL.
4. SEE SHEET DET-03 FOR 80' CCTV CAMERA POLE FOUNDATION DEPTH.



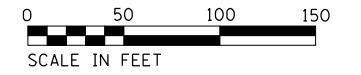
CCTV CAMERA POLE, STEEL, 80 FT. (I)  
 -CCTV CAMERA (I) [CCTV-ED-008B]  
 -CCTV CAMERA LOWERING DEVICE (I)  
 -CCTV CAMERA POLE FOUNDATION (I) (SEE NOTE 4)  
 (STA. 487+82, OFFSET 95' LT)



**DETAIL A**  
 NOT TO SCALE

GROUND-MOUNTED CABINET (I) [CAB-ED-008B]  
 -F.O. TERMINATION PANEL (I) [PPF-ED-008B]  
 -(12) TERMINATE FIBER (I)  
 -LAYER 3 (NETWORK) SWITCH (I)  
 -CCTV EQUIPMENT (I)

COMMUNICATIONS VAULT (I) [CMV-ED-008H]  
 -F.O. SPLICE-LATERAL (I)



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USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

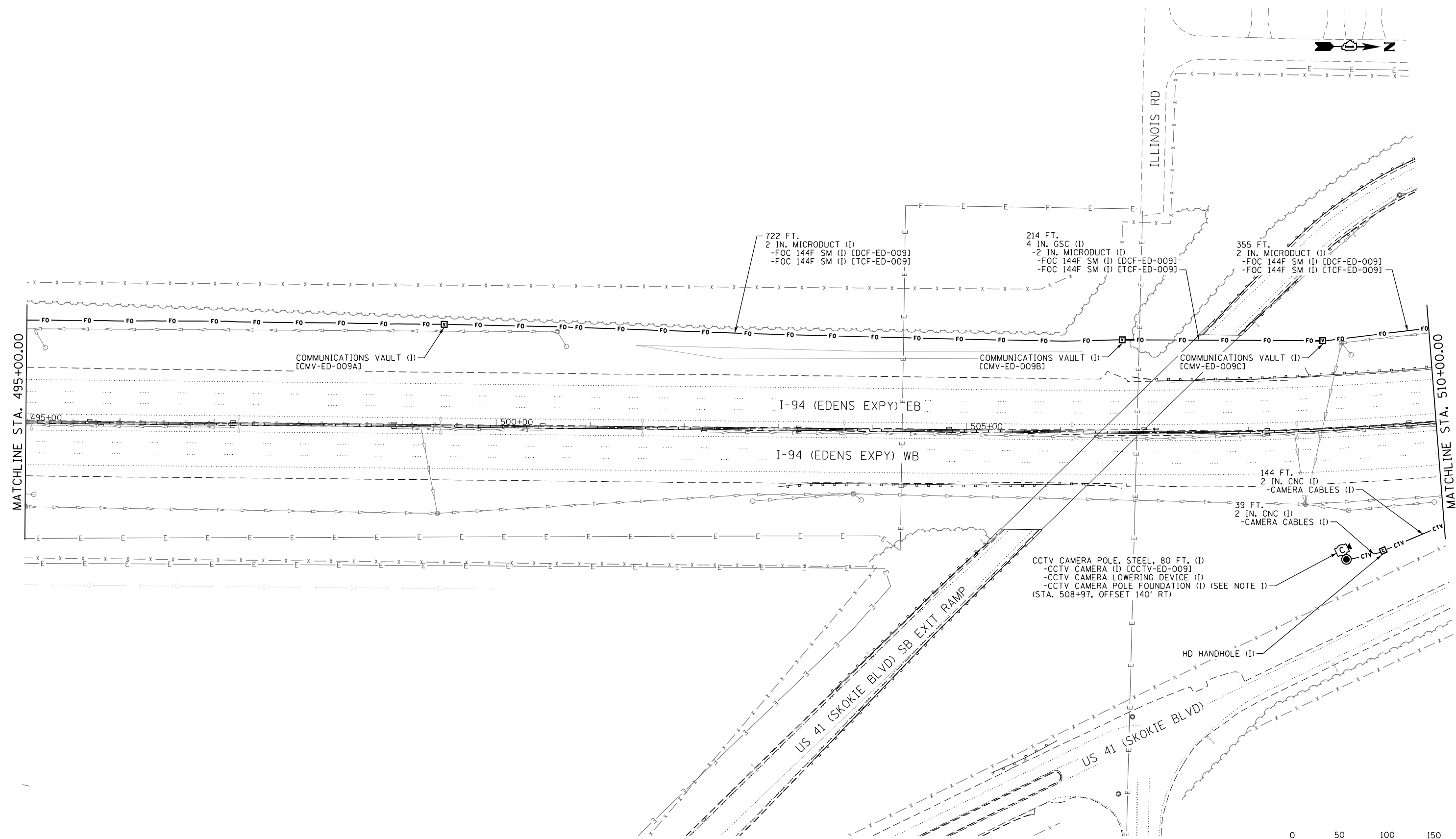
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS  
 CONSTRUCTION PLANS**

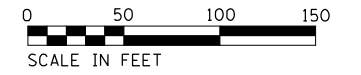
SCALE: 1" = 50' SHEET 43 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	121
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

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NOTES:  
 1. SEE SHEET DET-03 FOR 80' CCTV CAMERA POLE FOUNDATION DEPTH.



**Jacobs**

USER NAME = BREITEMF	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

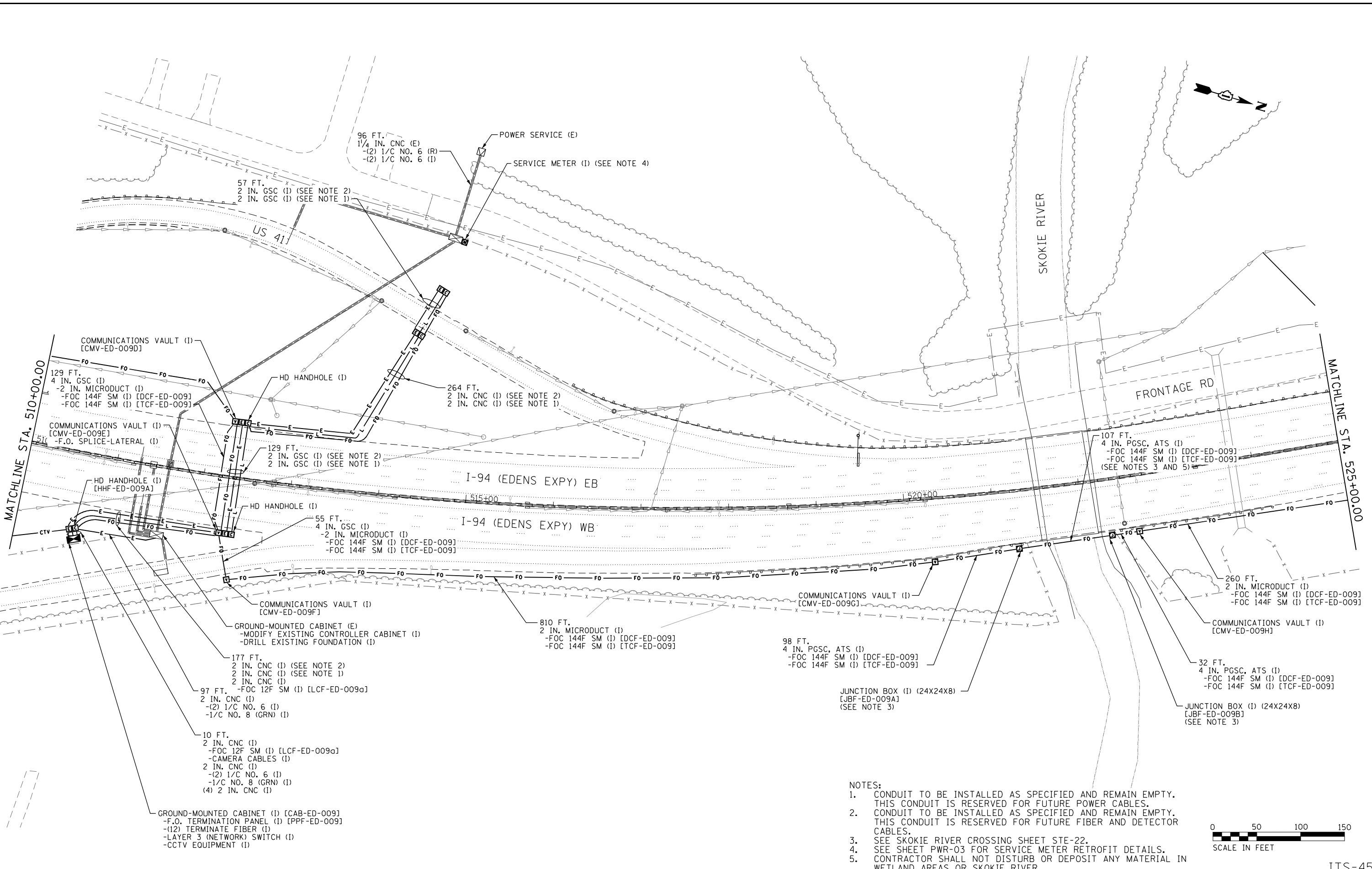
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

INTELLIGENT TRANSPORTATION SYSTEMS  
 CONSTRUCTION PLANS  
 SCALE: 1" = 50' SHEET 44 OF 82 SHEETS STA. TO STA.

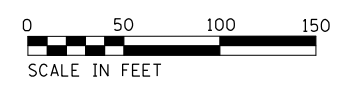
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	122
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-44

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- NOTES:
1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE POWER CABLES.
  2. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER AND DETECTOR CABLES.
  3. SEE SKOKIE RIVER CROSSING SHEET STE-22.
  4. SEE SHEET PWR-03 FOR SERVICE METER RETROFIT DETAILS.
  5. CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS OR SKOKIE RIVER



USER NAME = BREITEMF	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

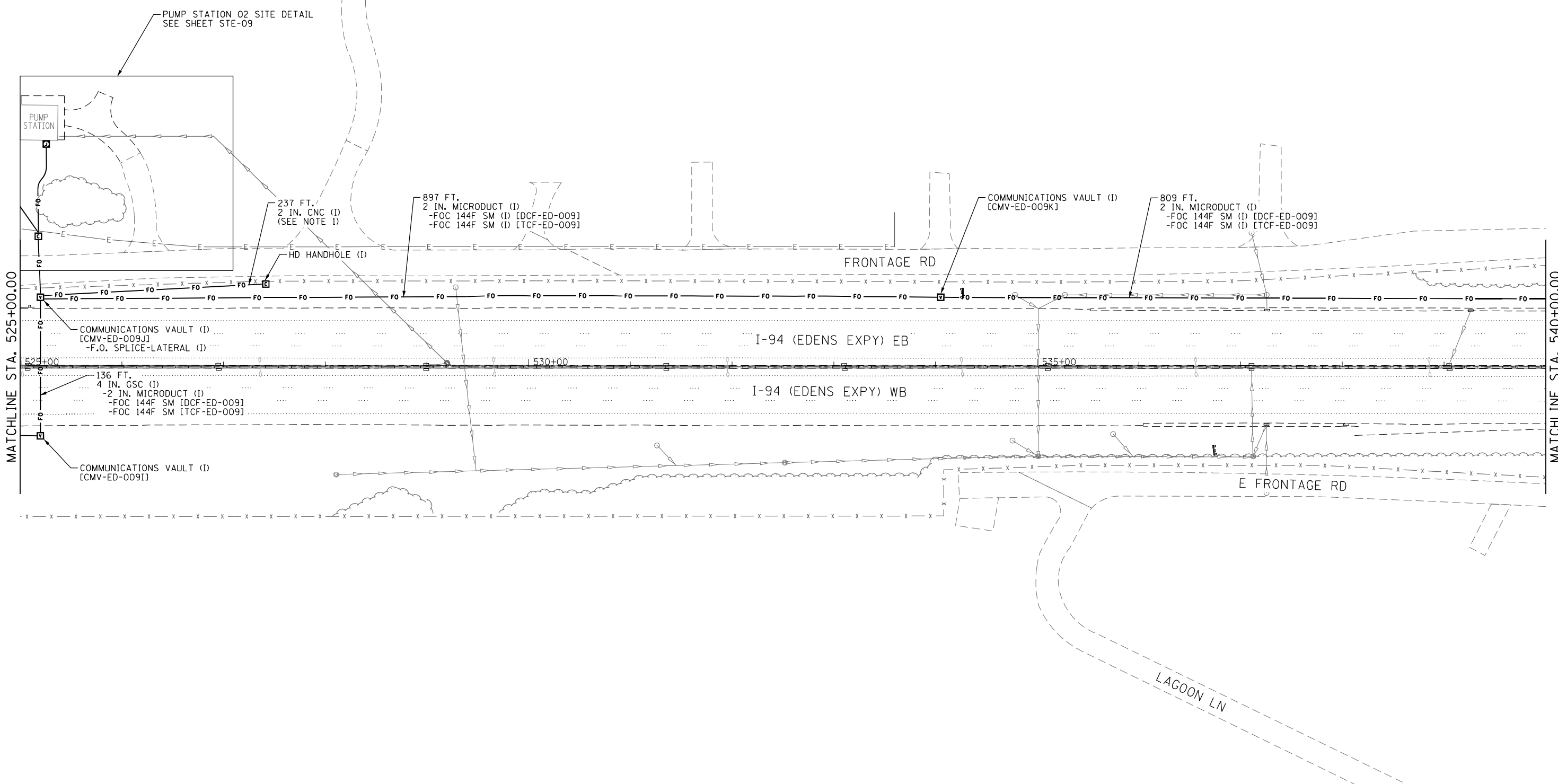
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS**  
**CONSTRUCTION PLANS**

SCALE: 1" = 50' SHEET 45 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	123
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

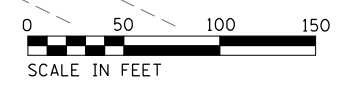
ITS-45



MATCHLINE STA. 525+00.00

MATCHLINE STA. 540+00.00

NOTES:  
 1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY.  
 THIS CONDUIT IS RESERVED FOR FUTURE FIBER CABLES.



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**Jacobs**

USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
	DRAWN - HAR	REVISED -
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

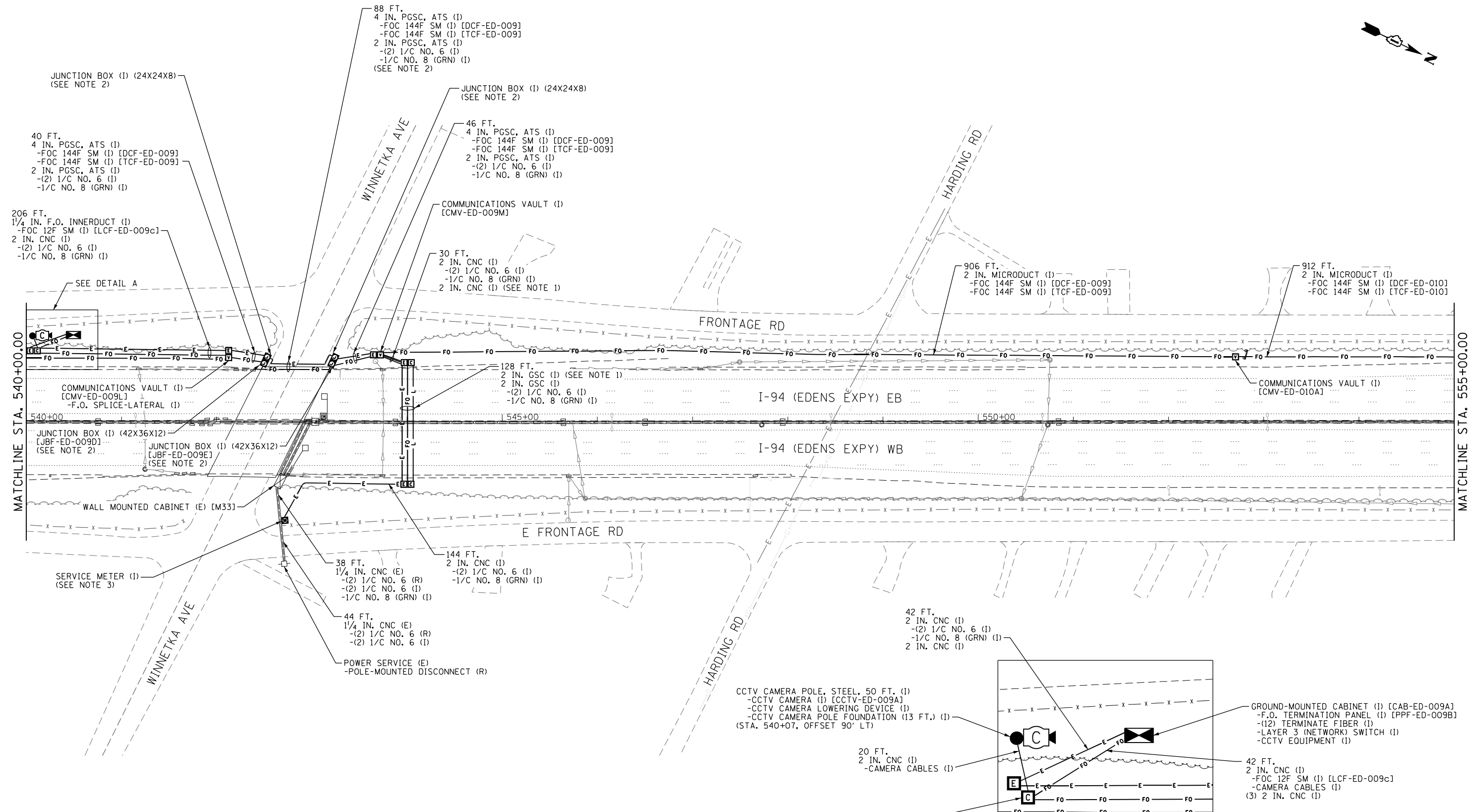
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS  
 CONSTRUCTION PLANS**

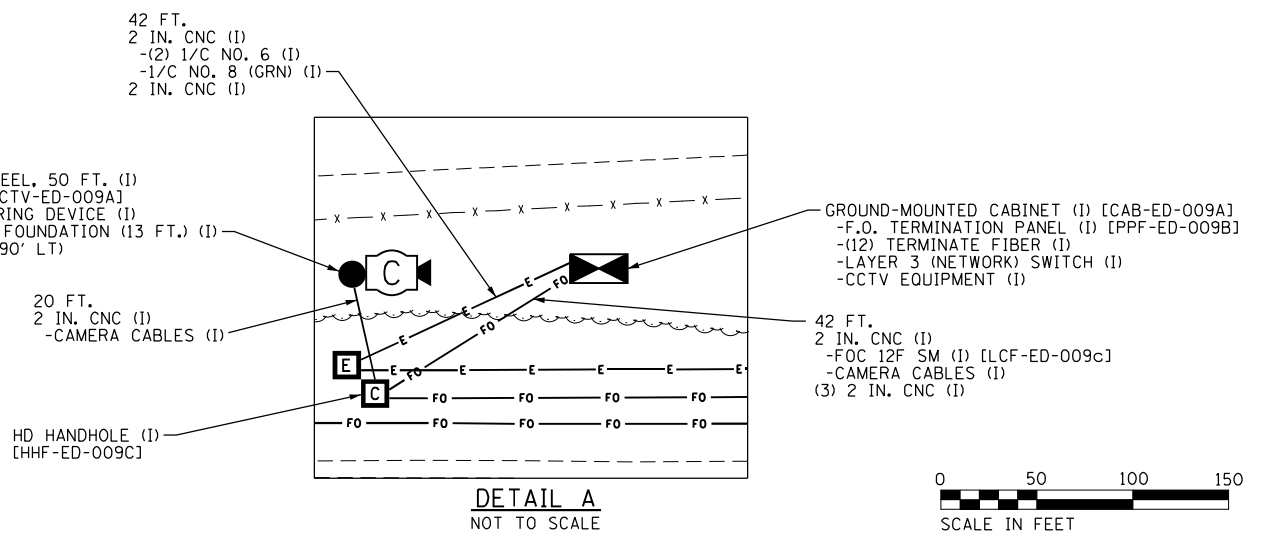
SCALE: 1" = 50' SHEET 46 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	124
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-46



- NOTES:  
1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER AND DETECTOR CABLES.  
2. SEE WINNETKA ROAD CROSSING SHEET STR-11.  
3. SEE SHEET PWR-03 FOR SERVICE METER RETROFIT DETAILS.



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USER NAME = zvolanjj	DESIGNED - JJJ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

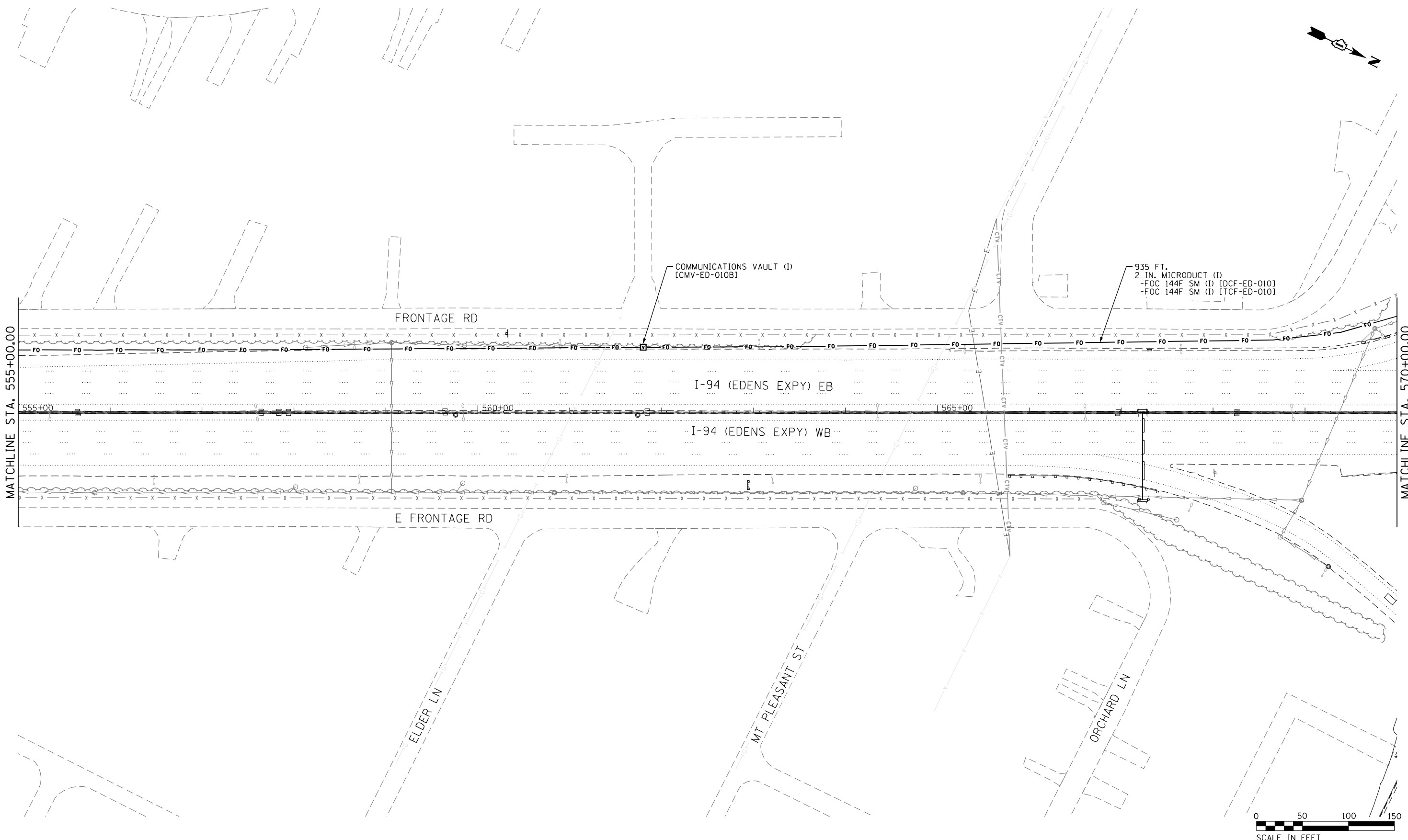
**INTELLIGENT TRANSPORTATION SYSTEMS  
CONSTRUCTION PLANS**

SCALE: 1" = 50' SHEET 47 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	125
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-47

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USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

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

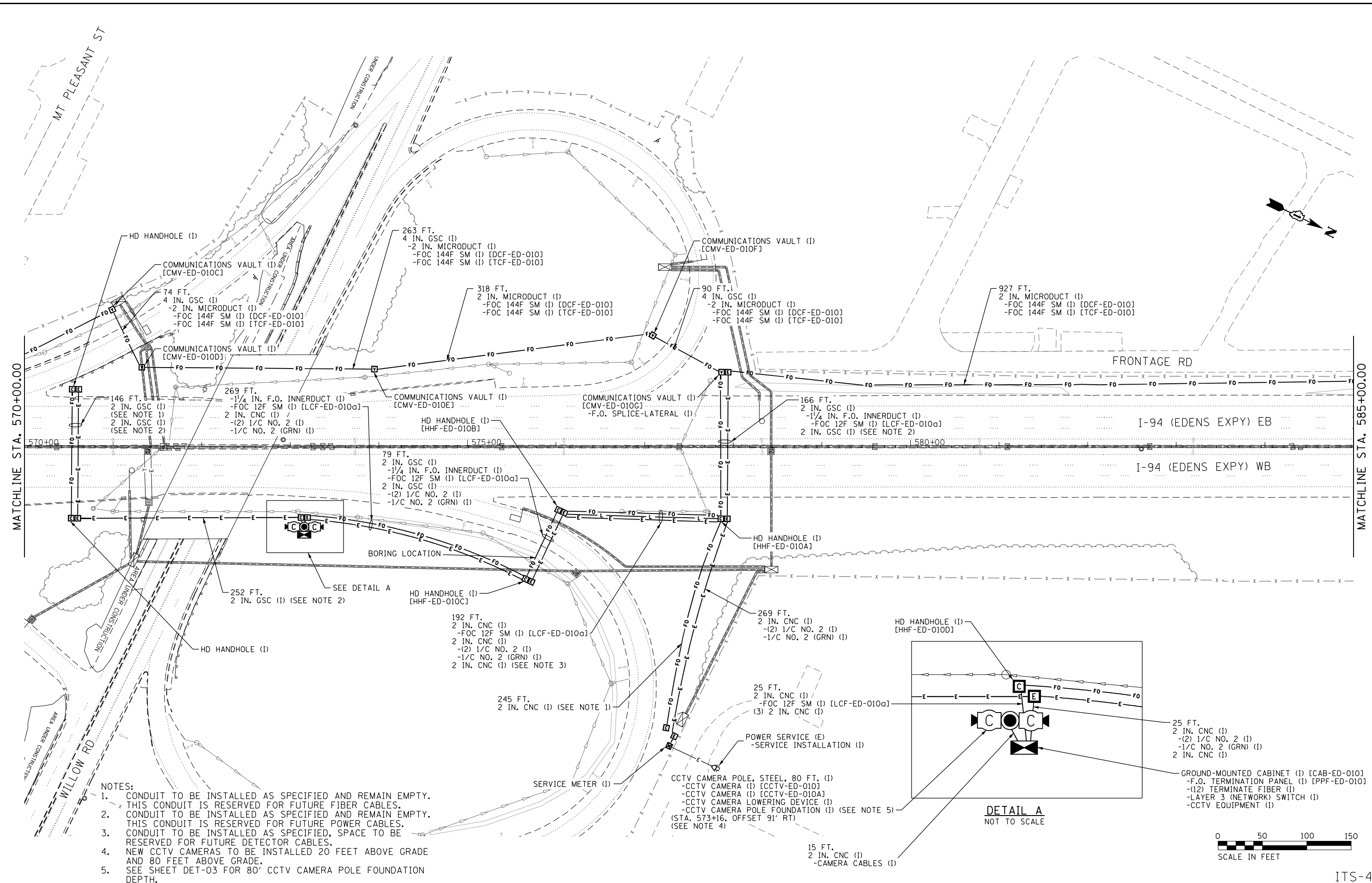
**INTELLIGENT TRANSPORTATION SYSTEMS**  
**CONSTRUCTION PLANS**

SCALE: 1" = 50' SHEET 48 OF 82 SHEETS STA. TO STA.

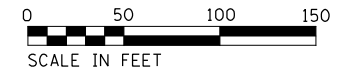
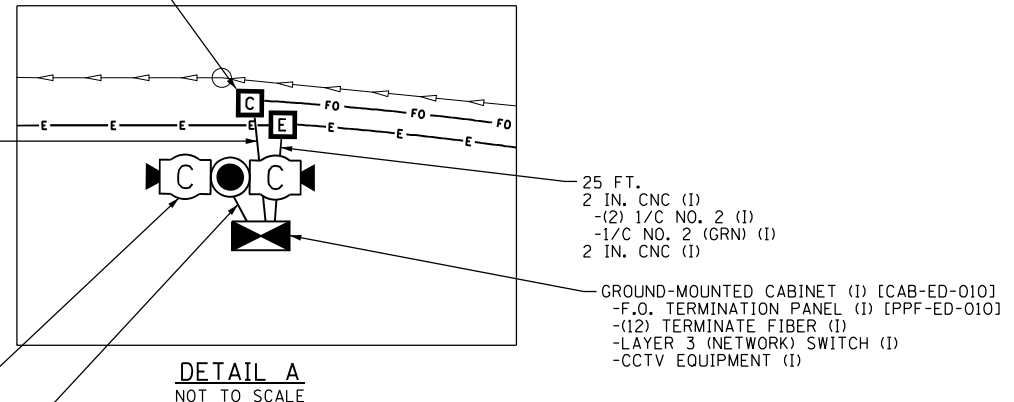
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	126
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-48

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- NOTES:**
1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER CABLES.
  2. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE POWER CABLES.
  3. CONDUIT TO BE INSTALLED AS SPECIFIED, SPACE TO BE RESERVED FOR FUTURE DETECTOR CABLES.
  4. NEW CCTV CAMERAS TO BE INSTALLED 20 FEET ABOVE GRADE AND 80 FEET ABOVE GRADE.
  5. SEE SHEET DET-03 FOR 80' CCTV CAMERA POLE FOUNDATION DEPTH.



USER NAME = BREITEMF	DESIGNED - JJZ	REVISED - 07/14/2021
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

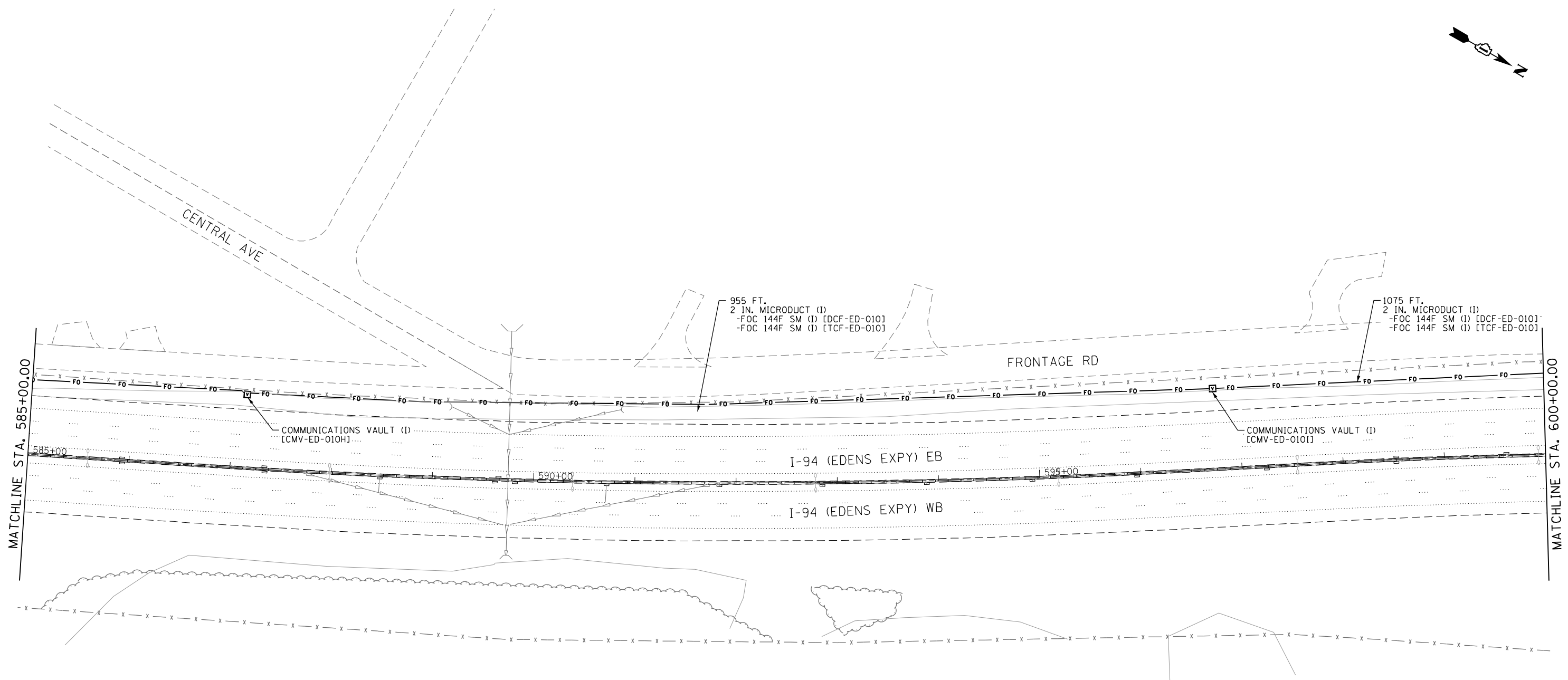
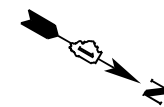
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS  
CONSTRUCTION PLANS**

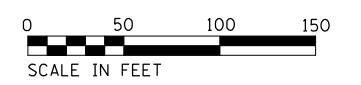
SCALE: 1" = 50'    SHEET 49 OF 82 SHEETS STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	127
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-49



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ITS-50



USER NAME = BREITEMF	DESIGNED - JJZ	REVISED - 07/14/2021
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

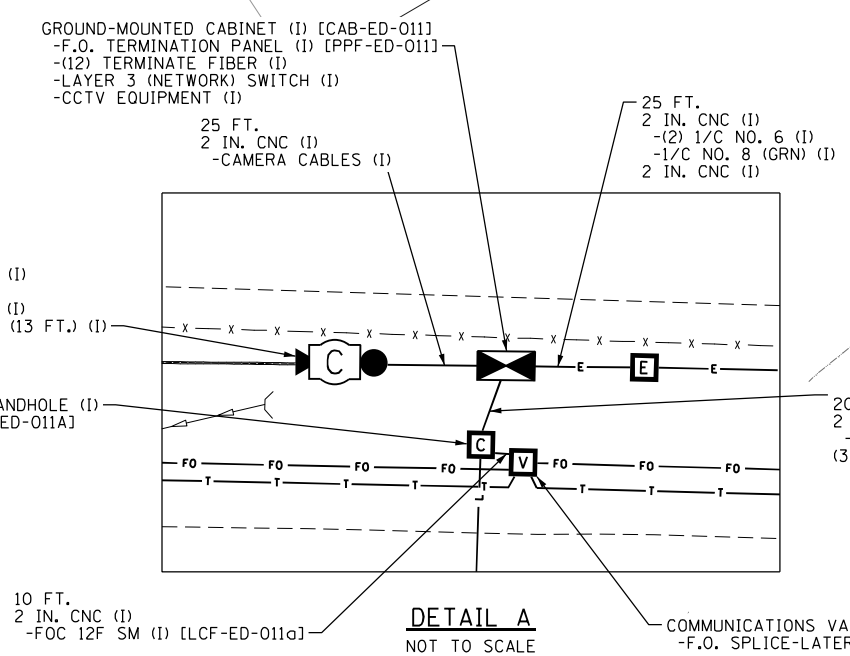
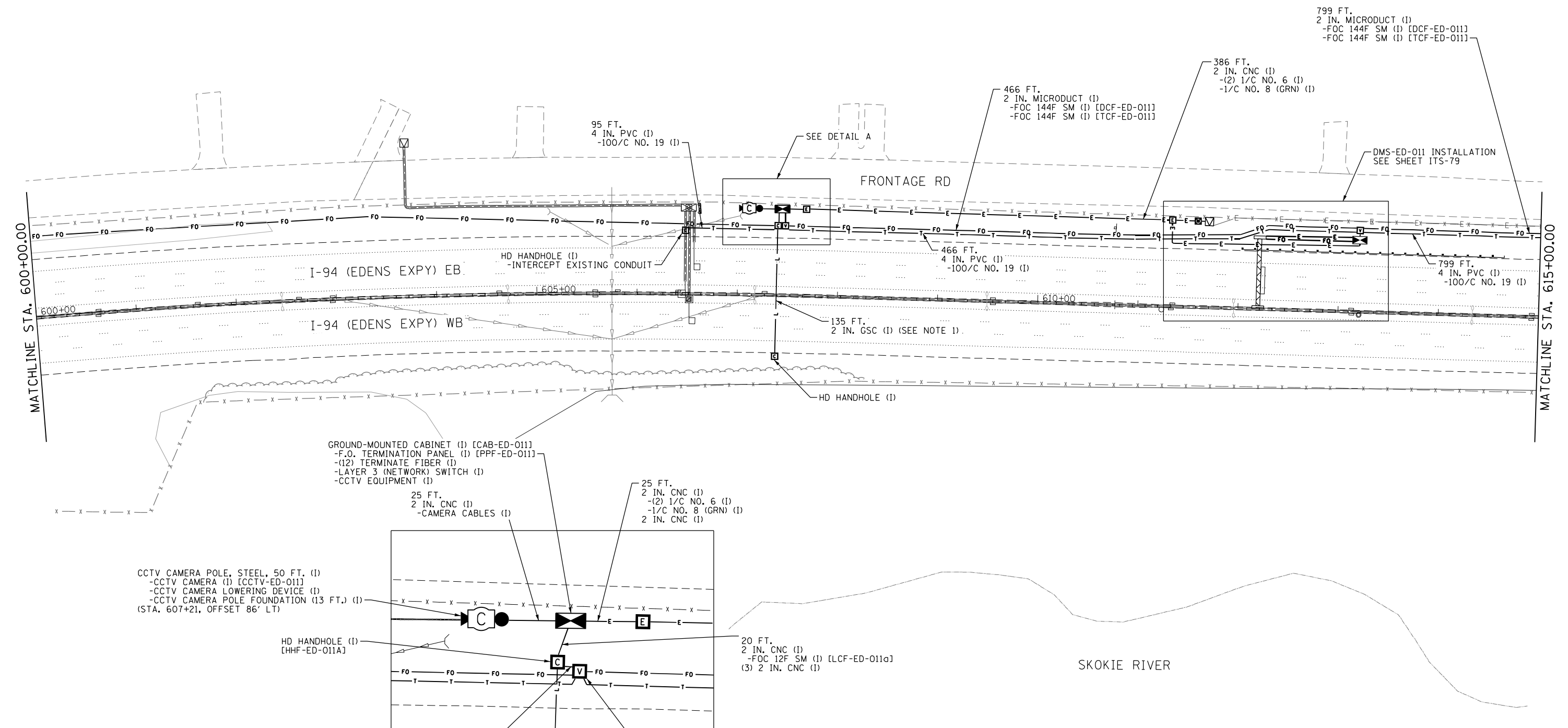
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS**  
**CONSTRUCTION PLANS**

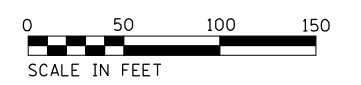
SCALE: 1" = 50' SHEET 50 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	128
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	





NOTES:  
 1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE DETECTOR CABLES.



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**Jacobs**

USER NAME = BREITEMF	DESIGNED - JJZ	REVISED - 07/14/2021
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

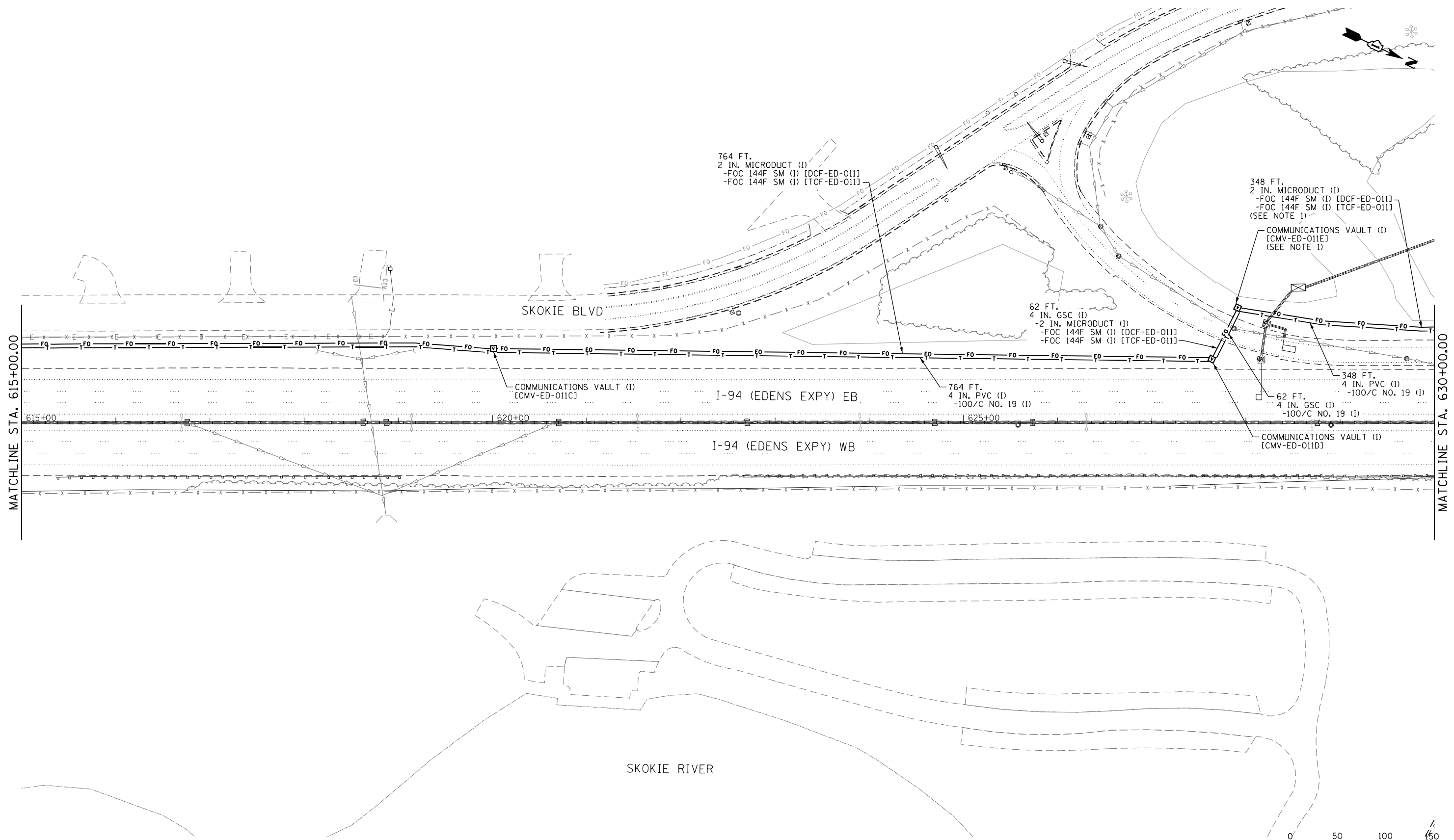
**INTELLIGENT TRANSPORTATION SYSTEMS  
 CONSTRUCTION PLANS**

SCALE: 1" = 50' SHEET 51 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	129
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-51

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SKOKIE RIVER

NOTES:  
 1. CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS



**Jacobs**

USER NAME = BREITEMF	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

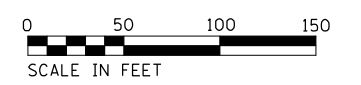
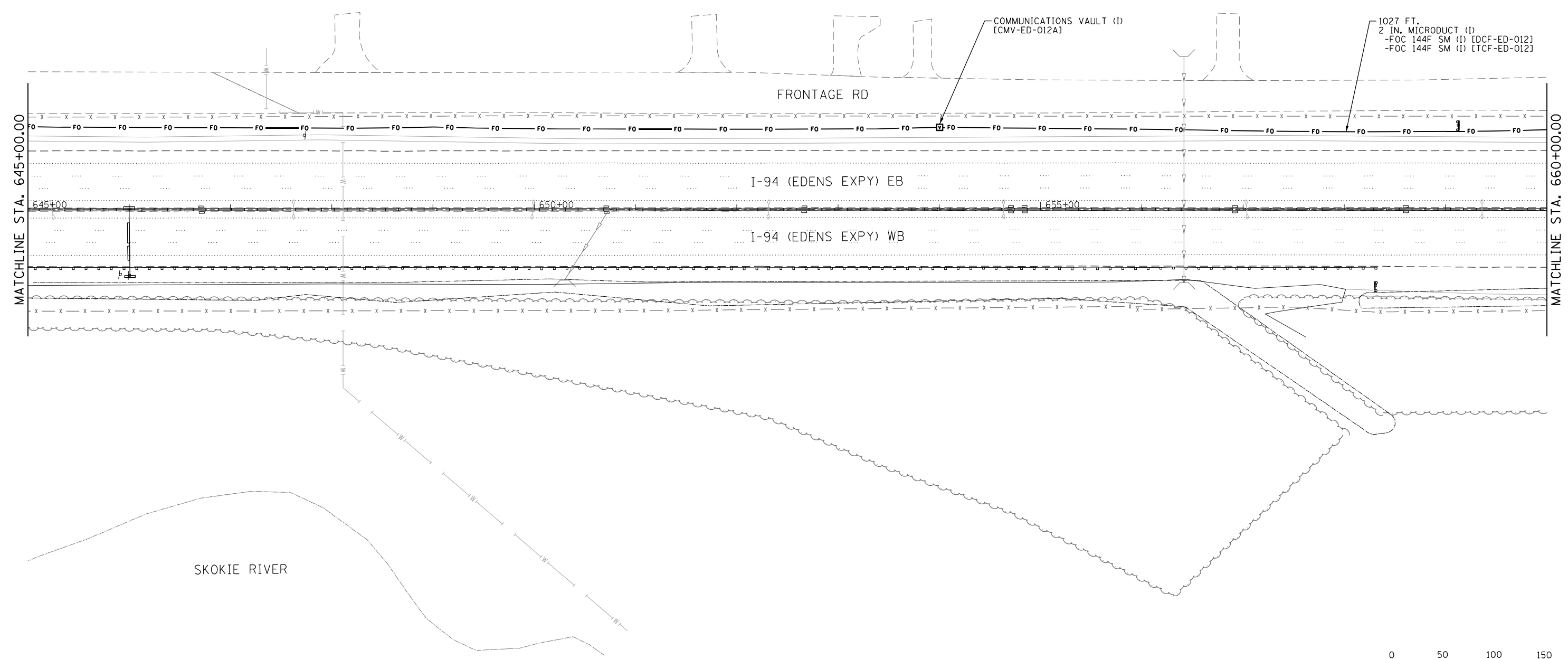
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS**  
**CONSTRUCTION PLANS**  
 SCALE: 1" = 50' SHEET 52 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	130
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-52





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**Jacobs**

USER NAME = BREITEMF	DESIGNED - JJZ	REVISED -
DRAWN - HAR	REVISED -	
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 7/19/2021	DATE - 02/28/2020	REVISED -

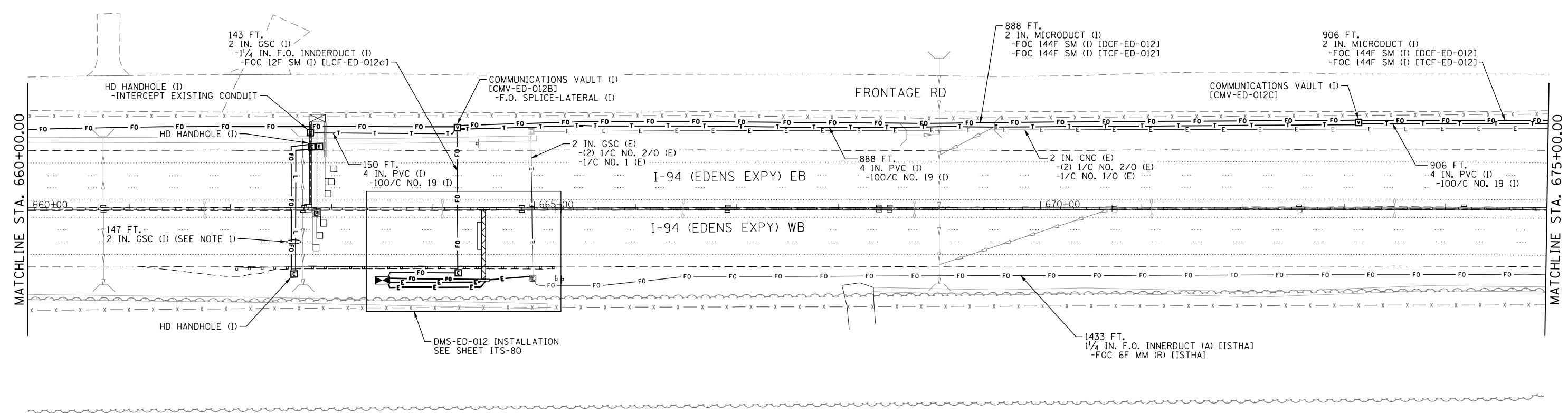
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS**  
**CONSTRUCTION PLANS**

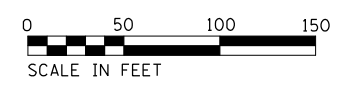
SCALE: 1" = 50' SHEET 54 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	132
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	

ITS-54



NOTES:  
 1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER AND DETECTOR CABLES.



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USER NAME = BREITEMF	DESIGNED - JJZ	REVISED -
DRAWN - HAR	REVISED -	
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 7/19/2021	DATE - 02/28/2020	REVISED -

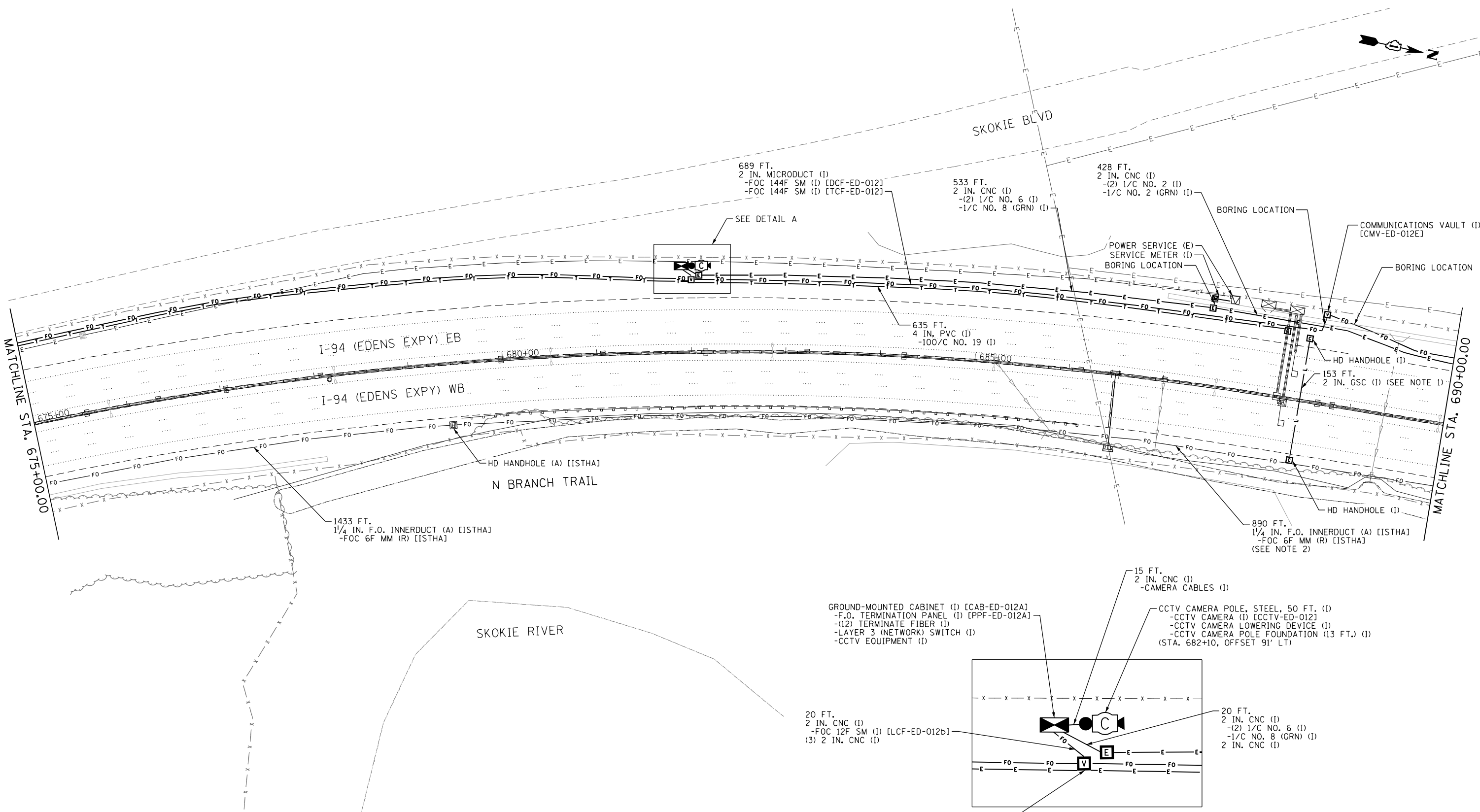
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS**  
**CONSTRUCTION PLANS**  
 SCALE: 1" = 50' SHEET 55 OF 82 SHEETS STA. TO STA.

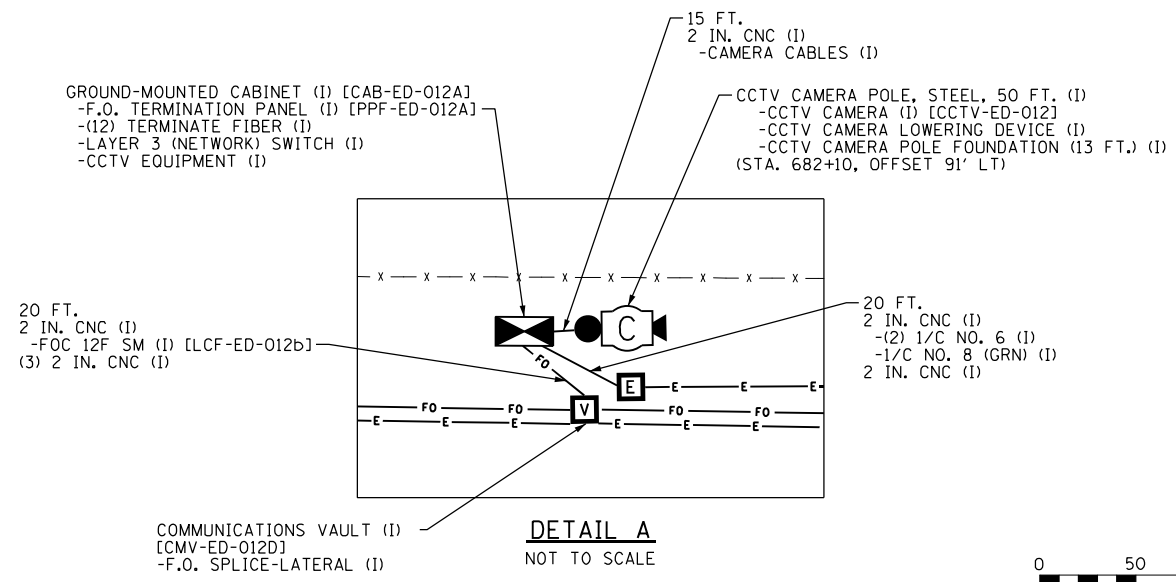
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	133
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-55

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- NOTES:
- CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE DETECTOR CABLES.
  - CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS



**Jacobs**

USER NAME = BREITEMF	DESIGNED - JJZ	REVISED - 07/14/2021
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

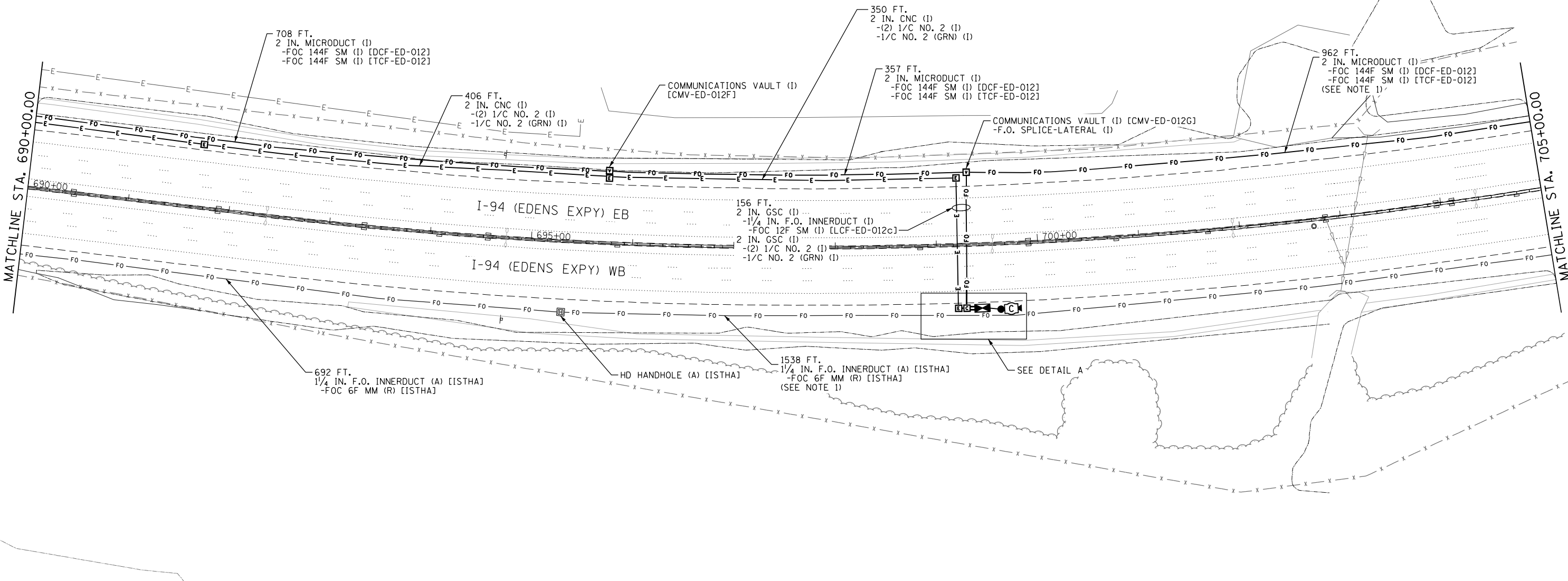
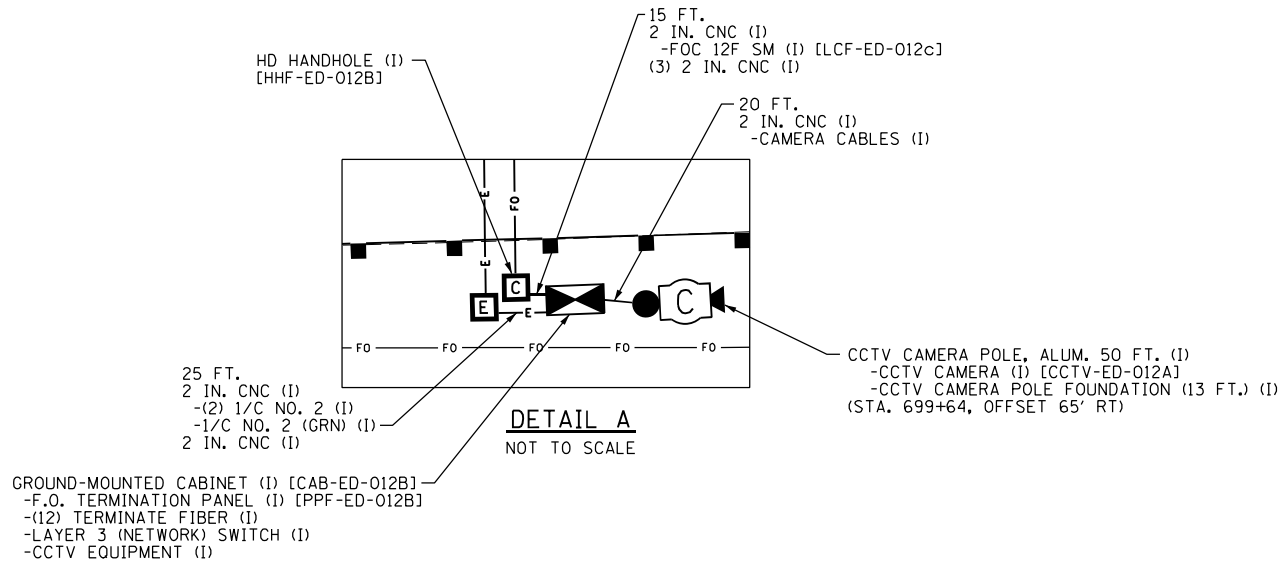
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS  
CONSTRUCTION PLANS**

SCALE: 1" = 50' SHEET 56 OF 82 SHEETS STA. TO STA.

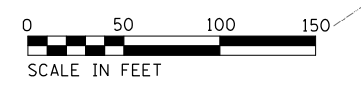
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	134
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-56



SKOKIE RIVER

NOTES:  
 1. CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS.



ITS-57

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<b>Jacobs</b>	USER NAME = BREITEMF	DESIGNED - JJZ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INTELLIGENT TRANSPORTATION SYSTEMS CONSTRUCTION PLANS</b>	F.A.I. RTE. = 94	SECTION = 2016-068I	COUNTY = COOK/LAKE	TOTAL SHEETS = 388	SHEET NO. = 135
	PLOT SCALE =	CHECKED - CRH	REVISED -			CONTRACT NO. 62079				
	PLOT DATE = 7/19/2021	DATE = 02/28/2020	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: 1" = 50' SHEET 57 OF 82 SHEETS STA. TO STA.

GROUND-MOUNTED CABINET (1) [CAB-ED-013]  
 -F.O. TERMINATION PANEL (1) [PPF-ED-013]  
 -(12) TERMINATE FIBER (1)  
 -LAYER 3 (NETWORK) SWITCH (1)  
 -CCTV EQUIPMENT (1)

35 FT.  
 2 IN. CNC (1) (SEE NOTE 3)  
 2 IN. CNC (1)  
 -CAMERA CABLES (1)

35 FT.  
 2 IN. CNC (1)  
 -FOC 12F SM (1) [LCF-ED-013a]  
 2 IN. CNC (1)

COMMUNICATIONS VAULT (1)  
 [CMV-ED-013C]  
 -F.O. SPLICE-LATERAL (1)

HD HANDHOLE (1)  
 [HHF-ED-013A]

**DETAIL A**  
 NOT TO SCALE

100 FT.  
 2 IN. CNC (1)  
 -CAMERA CABLES (1)

CCTV CAMERA POLE, STEEL, 80 FT. (1)  
 -CCTV CAMERA (1) [CCTV-ED-013]  
 -CCTV CAMERA LOWERING DEVICE (1)  
 -CCTV CAMERA POLE FOUNDATION (1) (SEE NOTE 4)  
 (STA. 717+34, OFFSET 91' LT)

POWER SERVICE (E)  
 -SERVICE INSTALLATION (1)

362 FT.  
 2 IN. CNC (1) (SEE NOTE 1)  
 2 IN. CNC (1)  
 -(2) 1/C NO. 6 (1)  
 -1/C NO. 8 (GRN) (1)

HD HANDHOLE (1)

494 FT.  
 2 IN. MICRODUCT (1)  
 -FOC 144F SM (1) [DCF-ED-013]  
 -FOC 144F SM (1) [TCF-ED-013]  
 2 IN. CNC (1) (SEE NOTE 2)

COMMUNICATIONS VAULT (1)  
 [CMV-ED-013D]

BORING LOCATION  
 COMMUNICATIONS VAULT (1)  
 [CMV-ED-013B]

74 FT.  
 4 IN. GSC (1)  
 -2 IN. MICRODUCT (1)  
 -FOC 144F SM (1) [DCF-ED-013]  
 -FOC 144F SM (1) [TCF-ED-013]  
 2 IN. GSC (1)  
 -(2) 1/C NO. 6 (1)  
 -1/C NO. 8 (GRN) (1)

707 FT.  
 2 IN. MICRODUCT (1)  
 -FOC 144F SM (1) [DCF-ED-013]  
 -FOC 144F SM (1) [TCF-ED-013]  
 (SEE NOTE 5)

COMMUNICATIONS VAULT (1)  
 [CMV-ED-013A]  
 (SEE NOTE 5)

155 FT.  
 2 IN. GSC (1) (SEE NOTE 1)  
 2 IN. GSC (1) (SEE NOTE 2)

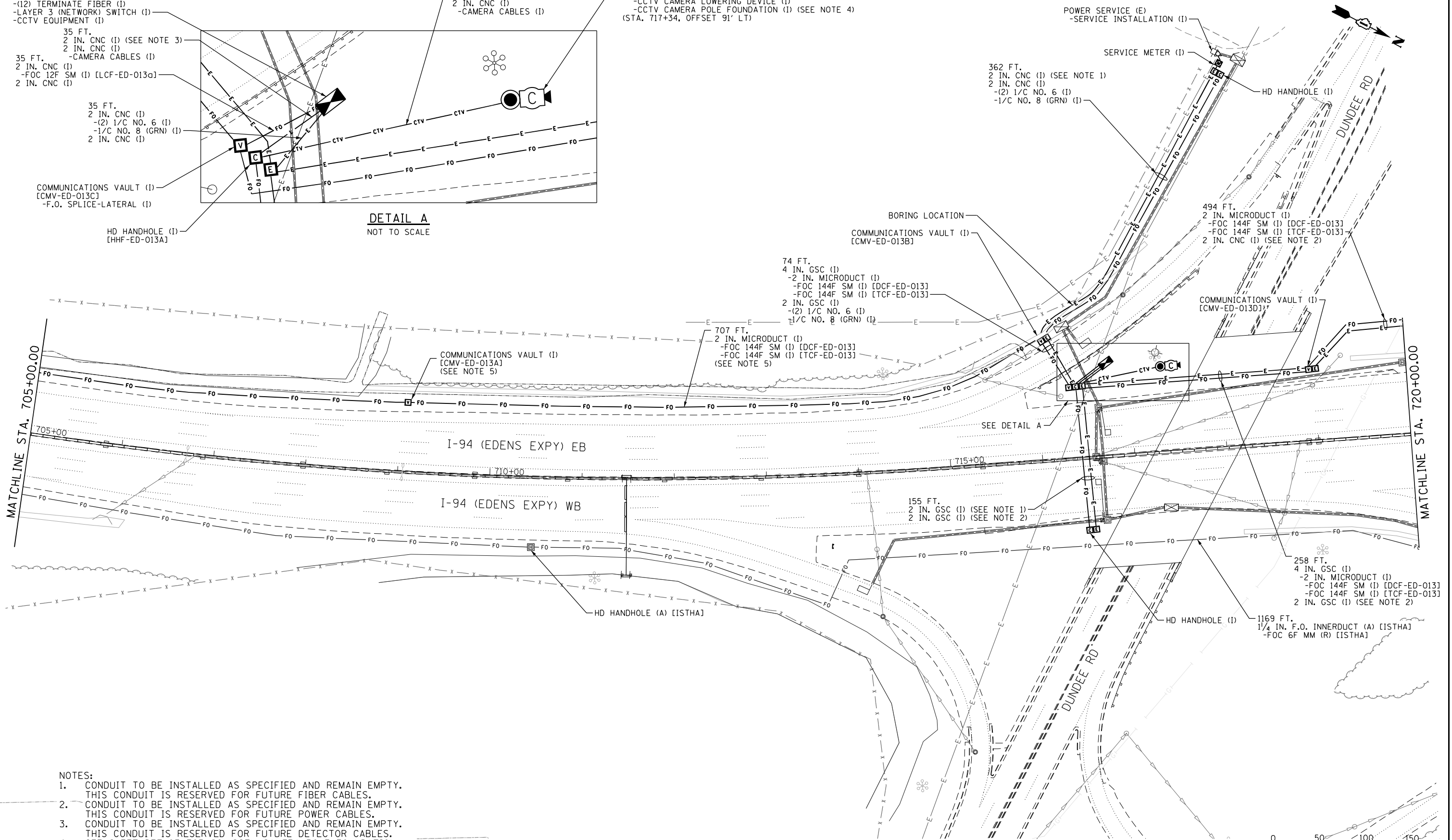
258 FT.  
 4 IN. GSC (1)  
 -2 IN. MICRODUCT (1)  
 -FOC 144F SM (1) [DCF-ED-013]  
 -FOC 144F SM (1) [TCF-ED-013]  
 2 IN. GSC (1) (SEE NOTE 2)

1169 FT.  
 1/4 IN. F.O. INNERDUCT (A) [ISTHA]  
 -FOC 6F MM (R) [ISTHA]

HD HANDHOLE (A) [ISTHA]

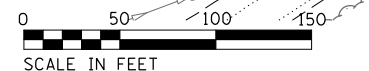
MATCHLINE STA. 705+00.00

MATCHLINE STA. 720+00.00



**NOTES:**

- CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER CABLES.
- CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE POWER CABLES.
- CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE DETECTOR CABLES.
- SEE SHEET DET-03 FOR 80' CCTV CAMERA POLE FOUNDATION DEPTH.
- CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS



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**Jacobs**

USER NAME = BREITEMF	DESIGNED - JJZ	REVISED - 07/14/2021
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

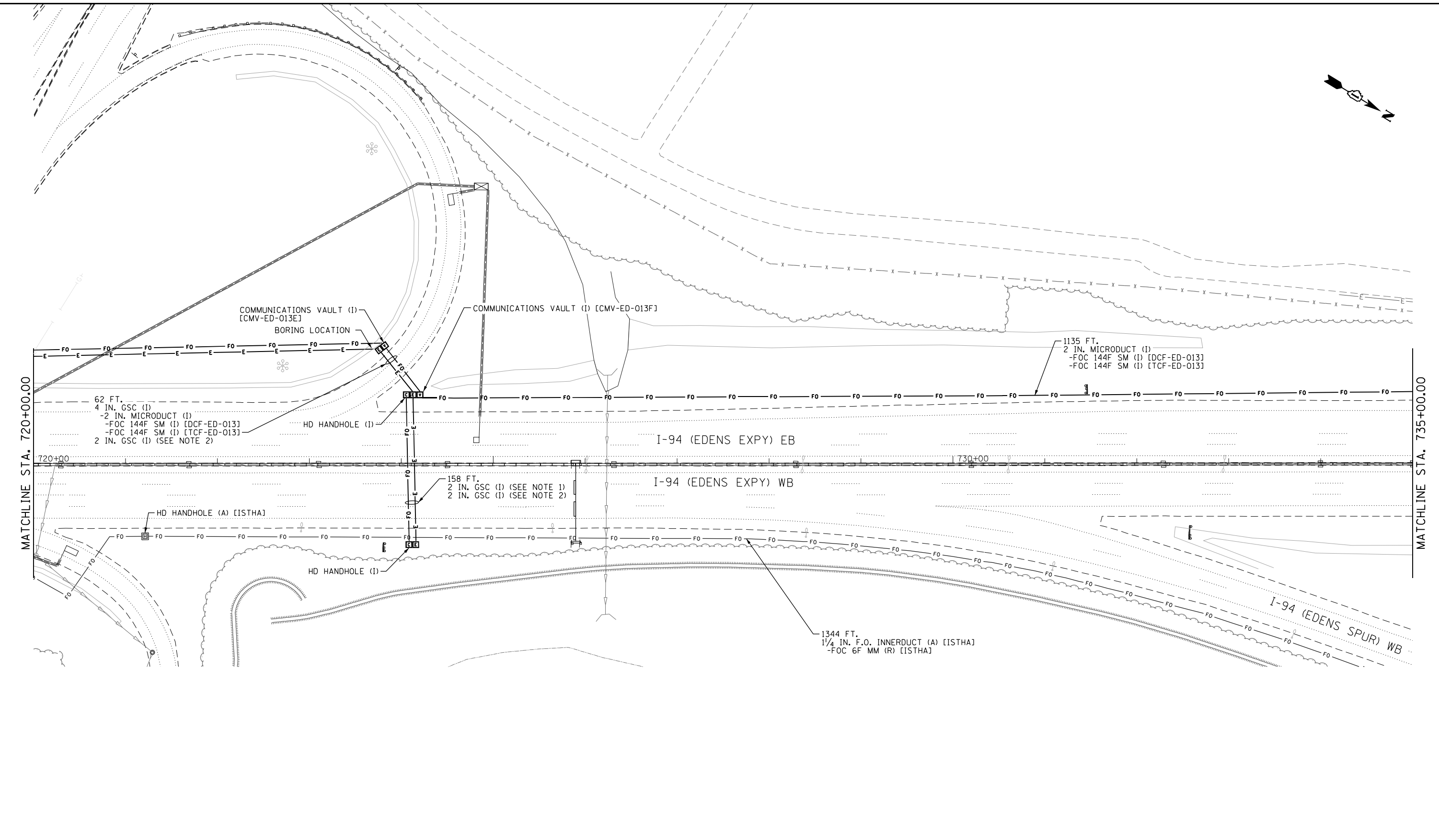
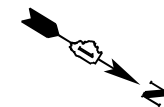
**INTELLIGENT TRANSPORTATION SYSTEMS  
 CONSTRUCTION PLANS**

SCALE: 1" = 50' SHEET 58 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	136
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-58





- NOTES:
1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER CABLES.
  2. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE POWER CABLES.



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USER NAME = BREITEMF	DESIGNED - JJZ	REVISED - 07/14/2021
	DRAWN - HAR	REVISED -
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 7/19/2021	DATE - 02/28/2020	REVISED -

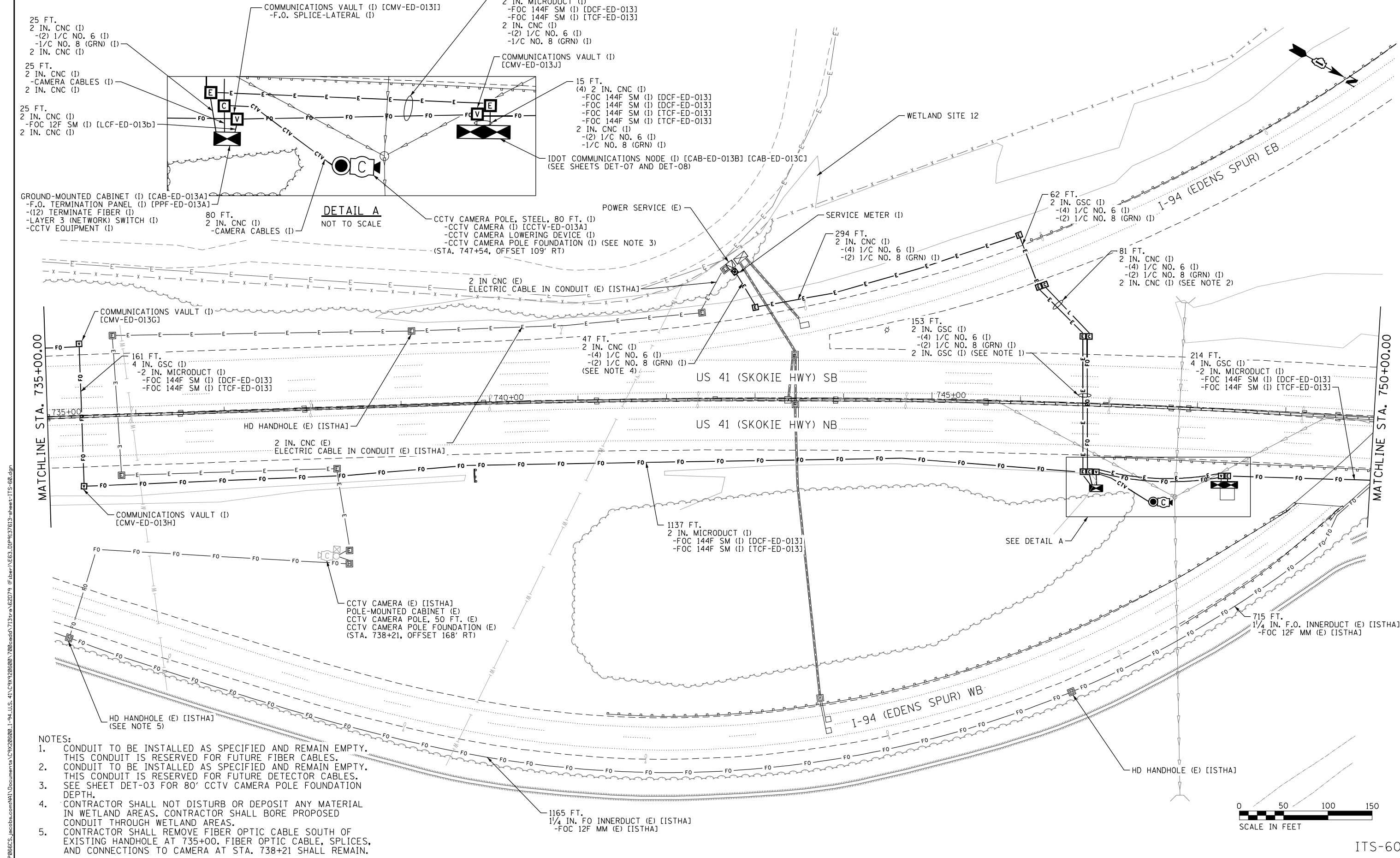
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS  
CONSTRUCTION PLANS**

SCALE: 1" = 50' SHEET 59 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	137
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-59



NOTES:

1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER CABLES.
2. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE DETECTOR CABLES. SEE SHEET DET-03 FOR 80' CCTV CAMERA POLE FOUNDATION DEPTH.
3. CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS. CONTRACTOR SHALL BORE PROPOSED CONDUIT THROUGH WETLAND AREAS.
4. CONTRACTOR SHALL REMOVE FIBER OPTIC CABLE SOUTH OF EXISTING HANDHOLE AT 735+00. FIBER OPTIC CABLE, SPLICES, AND CONNECTIONS TO CAMERA AT STA. 738+21 SHALL REMAIN.



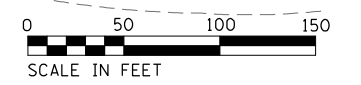
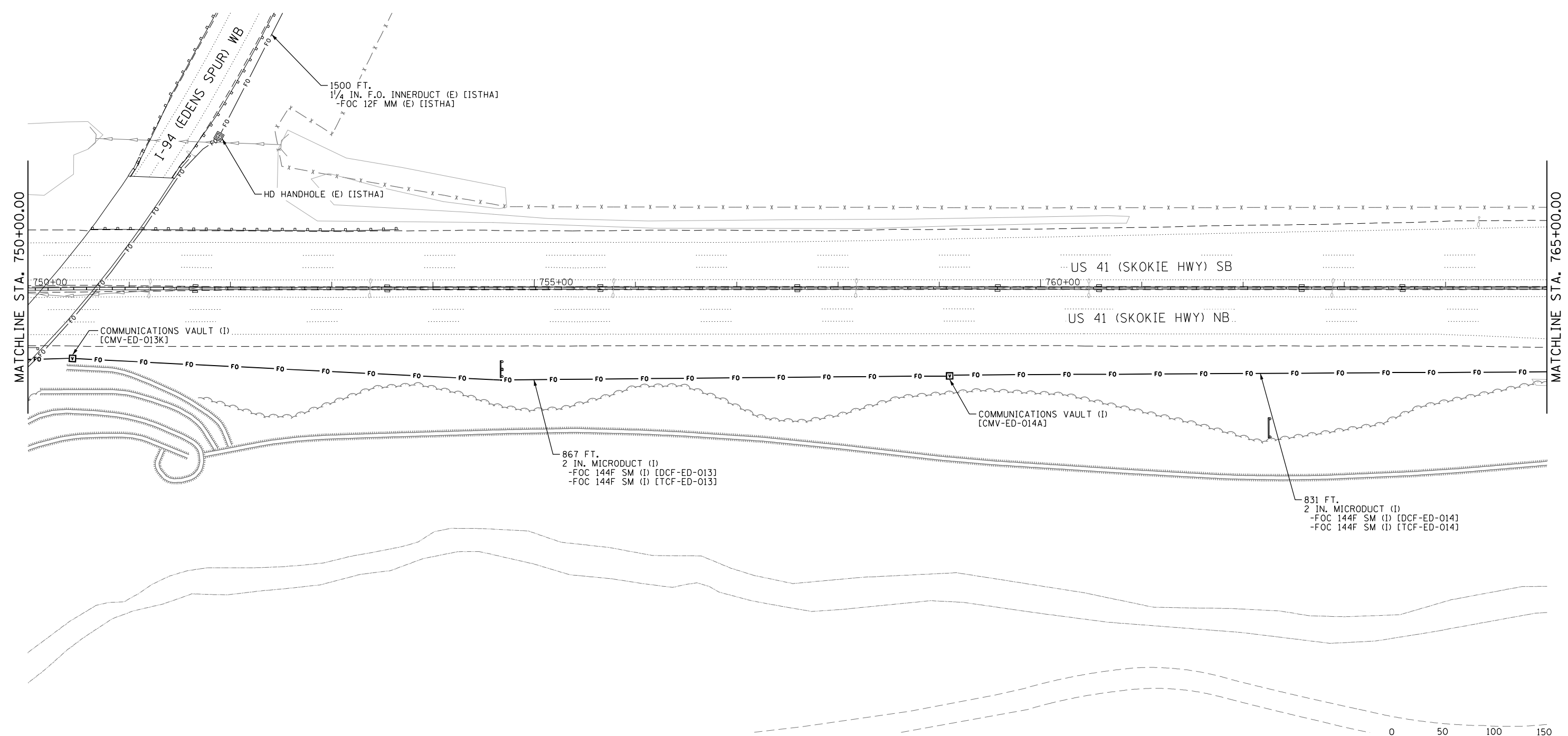
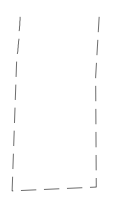
USER NAME = BREITEMP	DESIGNED - JJZ	REVISED - 07/14/2021
	DRAWN - HAR	REVISED -
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 7/19/2021	DATE - 02/28/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS  
CONSTRUCTION PLANS**

SCALE: 1" = 50'    SHEET 60 OF 82 SHEETS    STA.      TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-06BI	COOK/LAKE	388	138
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	



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**Jacobs**

USER NAME = BREITEMF	DESIGNED - JJZ	REVISED -
DRAWN - HAR	REVISIONS -	
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 7/19/2021	DATE - 02/28/2020	REVISED -

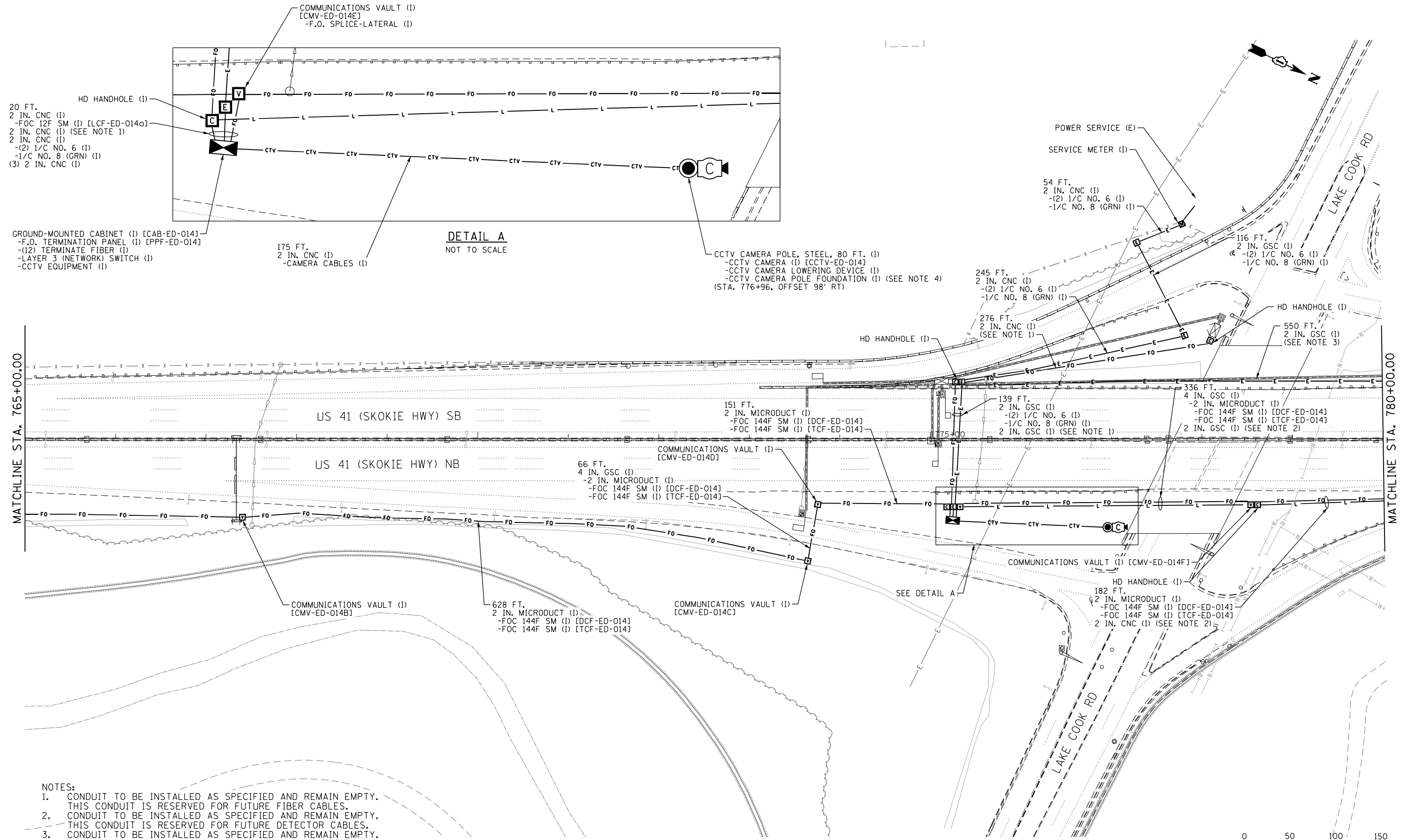
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS  
CONSTRUCTION PLANS**

SCALE: 1" = 50' SHEET 61 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0681	COOK/LAKE	388	139
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	

ITS-61



- 20 FT.
- 2 IN. CNC (1)
- FOC 12F SM (1) [LCF-ED-014a]
- 2 IN. CNC (1) (SEE NOTE 1)
- 2 IN. CNC (1)
- (2) 1/C NO. 6 (1)
- 1/C NO. 8 (GRN) (1)
- (3) 2 IN. CNC (1)

- GROUND-MOUNTED CABINET (1) [CAB-ED-014]
- F.O. TERMINATION PANEL (1) [PPF-ED-014]
- (12) TERMINATE FIBER (1)
- LAYER 3 (NETWORK) SWITCH (1)
- CCTV EQUIPMENT (1)

- 175 FT.
- 2 IN. CNC (1)
- CAMERA CABLES (1)

**DETAIL A**  
NOT TO SCALE

- CCTV CAMERA POLE, STEEL, 80 FT. (1)
- CCTV CAMERA (1) [CCTV-ED-014]
- CCTV CAMERA LOWERING DEVICE (1)
- CCTV CAMERA POLE FOUNDATION (1) (SEE NOTE 4)
- (STA. 776+96, OFFSET 98' RT)

- POWER SERVICE (E)
- SERVICE METER (1)
- 54 FT.
- 2 IN. CNC (1)
- (2) 1/C NO. 6 (1)
- 1/C NO. 8 (GRN) (1)

- 245 FT.
- 2 IN. CNC (1)
- (2) 1/C NO. 6 (1)
- 1/C NO. 8 (GRN) (1)
- 276 FT.
- 2 IN. CNC (1)
- (SEE NOTE 1)

- 116 FT.
- 2 IN. GSC (1)
- (2) 1/C NO. 6 (1)
- 1/C NO. 8 (GRN) (1)

- HD HANDHOLE (1)
- 550 FT.
- 2 IN. GSC (1)
- (SEE NOTE 3)

- 151 FT.
- 2 IN. MICRODUCT (1)
- FOC 144F SM (1) [DCF-ED-014]
- FOC 144F SM (1) [TCF-ED-014]

- 139 FT.
- 2 IN. GSC (1)
- (2) 1/C NO. 6 (1)
- 1/C NO. 8 (GRN) (1)
- 2 IN. GSC (1) (SEE NOTE 1)

- 336 FT.
- 4 IN. GSC (1)
- 2 IN. MICRODUCT (1)
- FOC 144F SM (1) [DCF-ED-014]
- FOC 144F SM (1) [TCF-ED-014]
- 2 IN. GSC (1) (SEE NOTE 2)

- 66 FT.
- 4 IN. GSC (1)
- 2 IN. MICRODUCT (1)
- FOC 144F SM (1) [DCF-ED-014]
- FOC 144F SM (1) [TCF-ED-014]

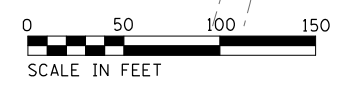
- COMMUNICATIONS VAULT (1) [CMV-ED-014B]

- 628 FT.
- 2 IN. MICRODUCT (1)
- FOC 144F SM (1) [DCF-ED-014]
- FOC 144F SM (1) [TCF-ED-014]

- COMMUNICATIONS VAULT (1) [CMV-ED-014C]

- 182 FT.
- 2 IN. MICRODUCT (1)
- FOC 144F SM (1) [DCF-ED-014]
- FOC 144F SM (1) [TCF-ED-014]
- 2 IN. CNC (1) (SEE NOTE 2)

- NOTES:
1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER CABLES.
  2. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE DETECTOR CABLES.
  3. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE POWER CABLES.
  4. SEE SHEET DET-03 FOR 80' CCTV CAMERA POLE FOUNDATION DEPTH.
  5. CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS



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 ITS-62



USER NAME = BREITEMF	DESIGNED - JJZ	REVISED - 07/14/2021
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

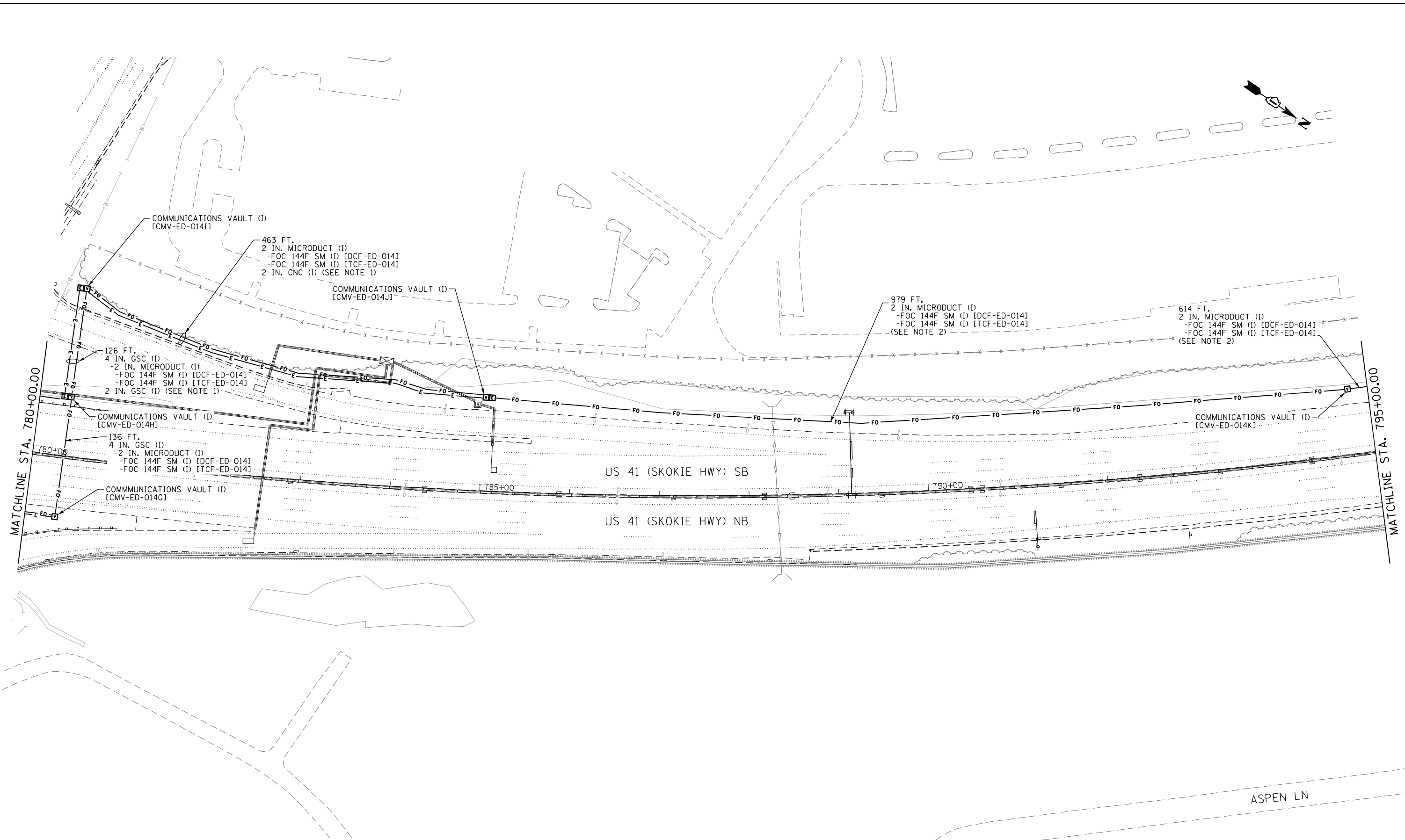
**INTELLIGENT TRANSPORTATION SYSTEMS  
CONSTRUCTION PLANS**

SCALE: 1" = 50'    SHEET 62 OF 82 SHEETS STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-06B1	COOK/LAKE	388	140
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-62

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- NOTES:
- CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE POWER CABLES.
  - CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS



USER NAME = BREITEMF	DESIGNED - JJZ	REVISED - 07/14/2021
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INTELLIGENT TRANSPORTATION SYSTEMS  
CONSTRUCTION PLANS

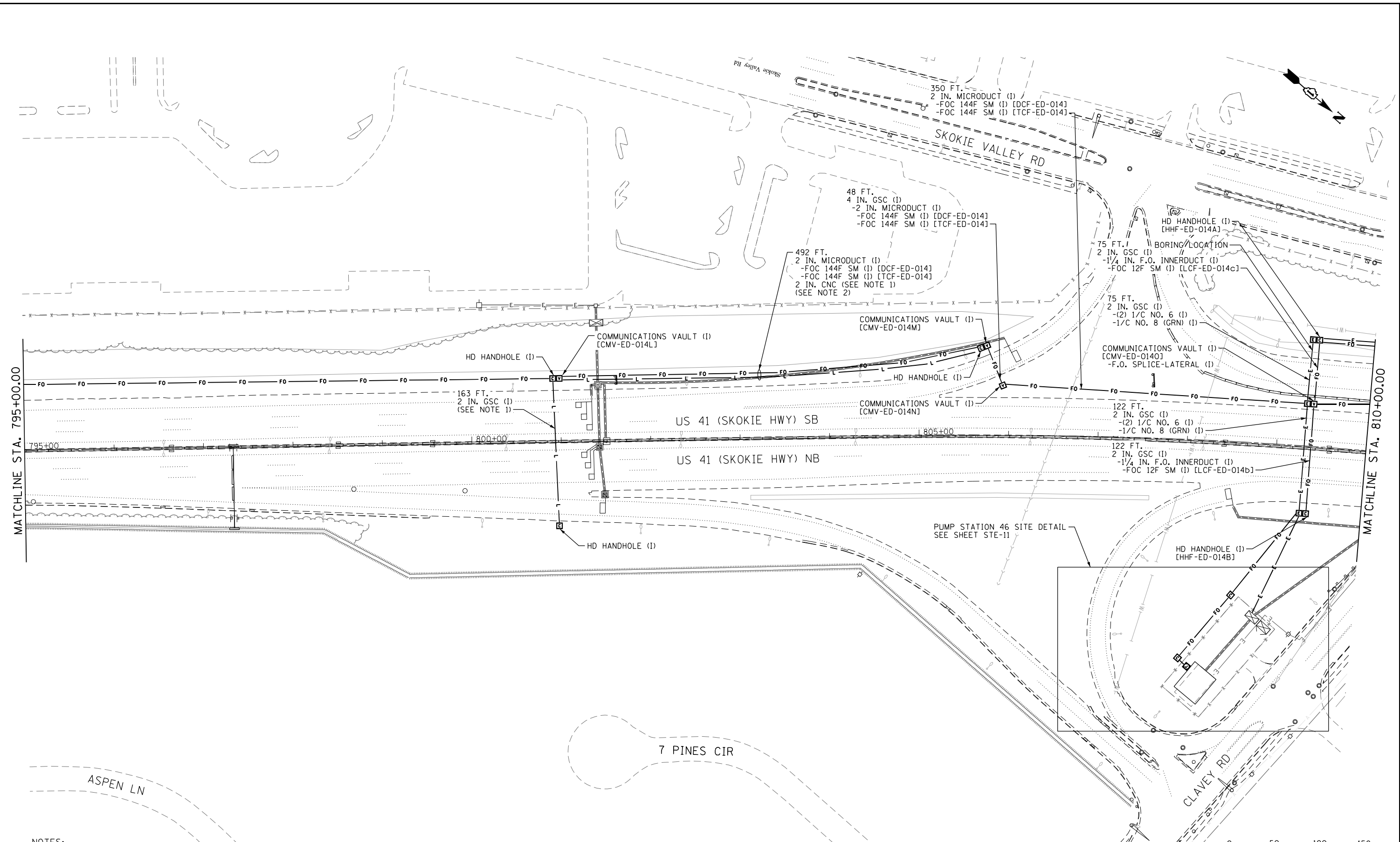
SCALE: 1" = 50' SHEET 63 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	141
CONTRACT NO. 62079				

ILLINOIS FED. AID PROJECT

ITS-63

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- NOTES:
- CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE DETECTOR CABLES.
  - CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS



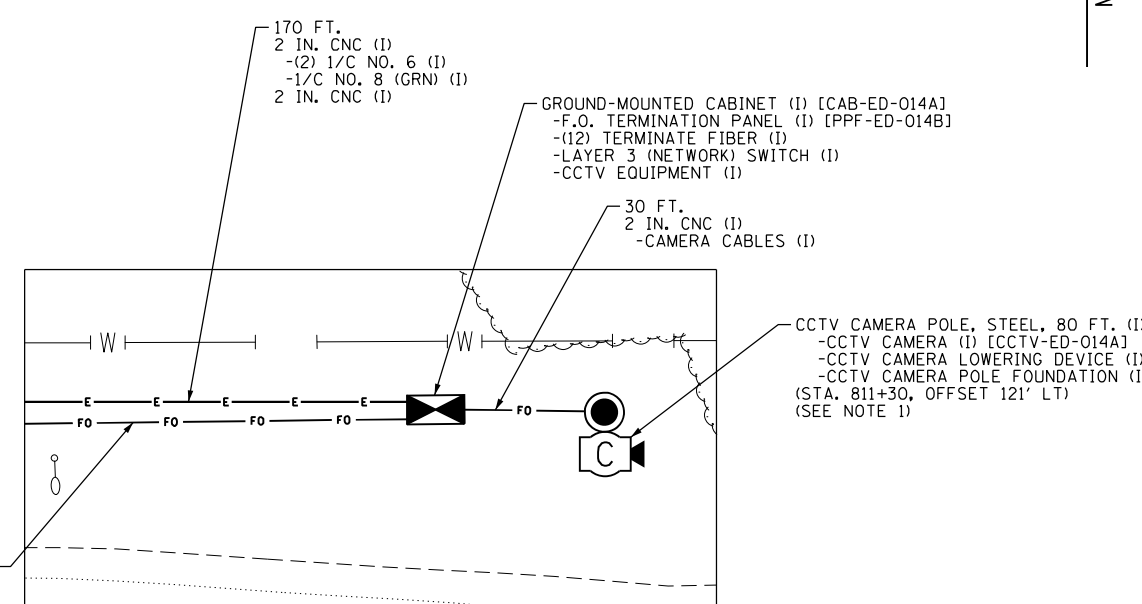
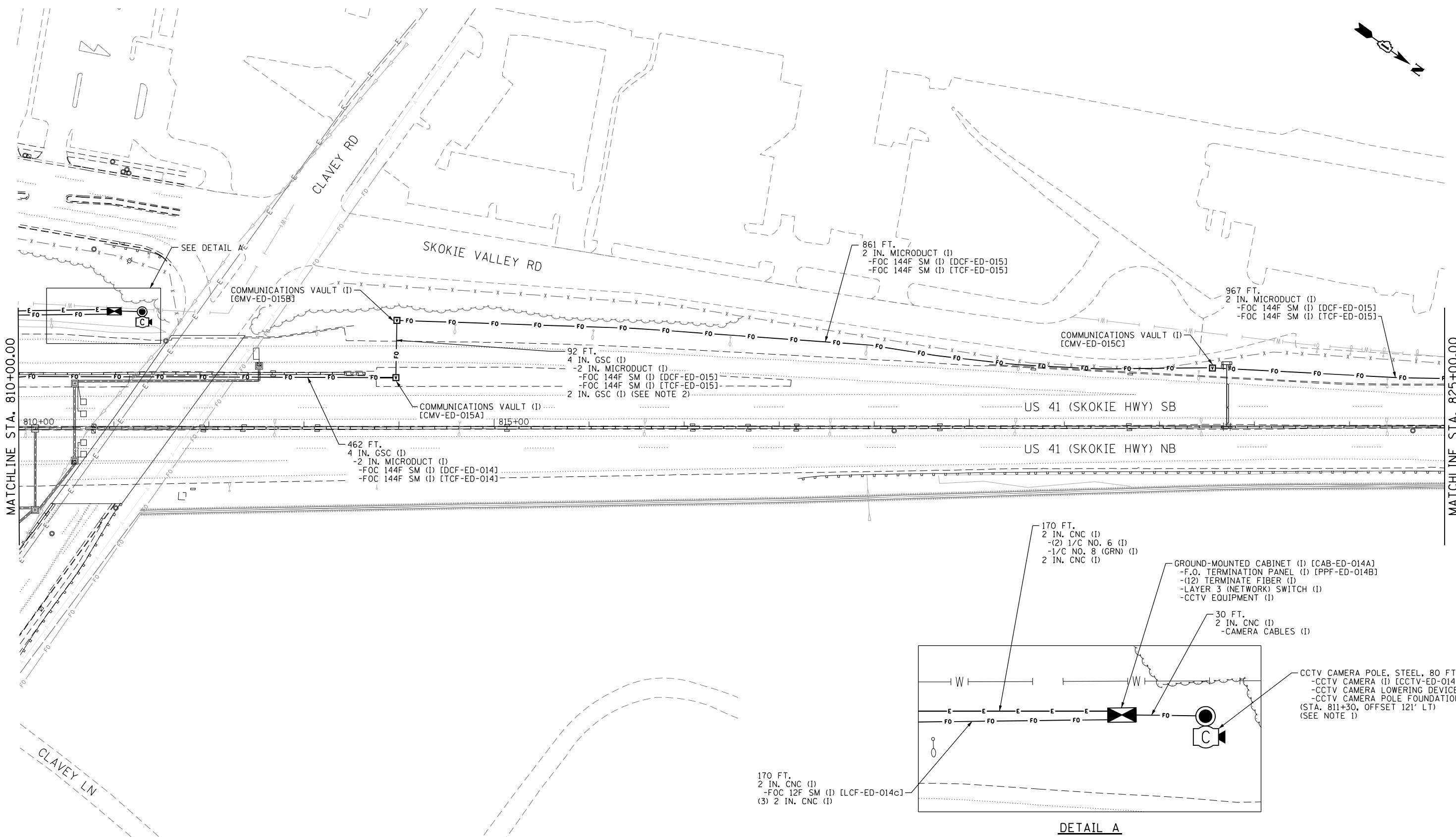
USER NAME = BREITEMF	DESIGNED - JJZ	REVISED - 07/14/2021
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

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

**INTELLIGENT TRANSPORTATION SYSTEMS**  
**CONSTRUCTION PLANS**  
 SCALE: 1" = 50' SHEET 64 OF 82 SHEETS STA. TO STA.

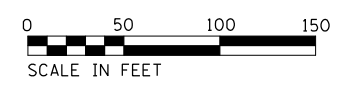
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	142
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

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**DETAIL A**  
NOT TO SCALE

- NOTES:**
- SEE SHEET DET-03 FOR 80' CCTV CAMERA POLE FOUNDATION DEPTH.
  - CONDUIT TO BE INSTALLED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE POWER CABLES.



USER NAME = BREITEMF	DESIGNED - JJZ	REVISED -
DRAWN - HAR	REVISED -	
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 7/19/2021	DATE - 02/28/2020	REVISED -

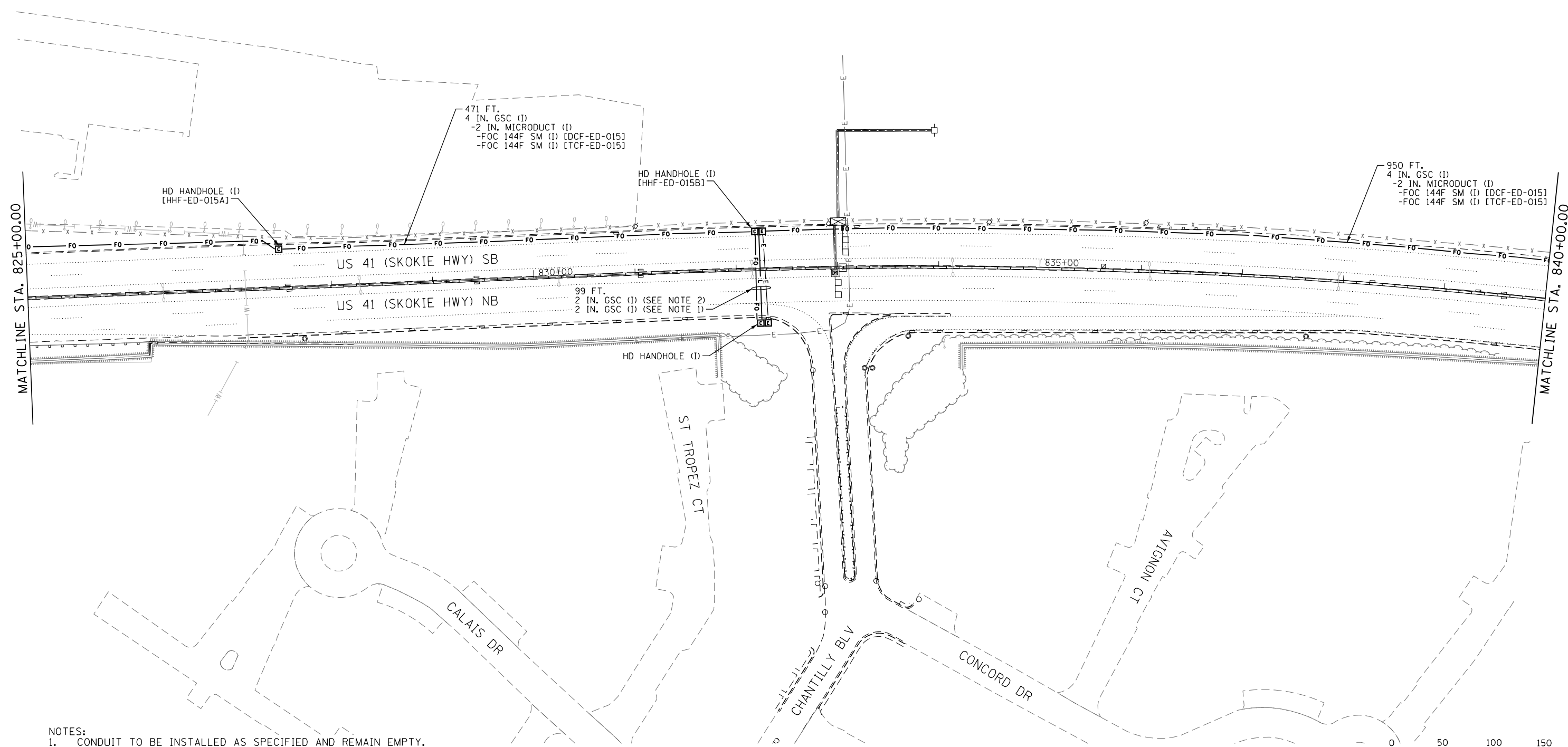
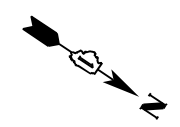
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS  
CONSTRUCTION PLANS**

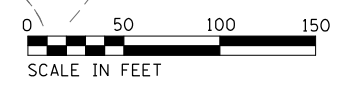
SCALE: 1" = 50' SHEET 65 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-06B1	COOK/LAKE	388	143
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-65



- NOTES:
1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE POWER CABLES.
  2. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER AND DETECTOR CABLES.



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USER NAME = BREITEMF	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

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

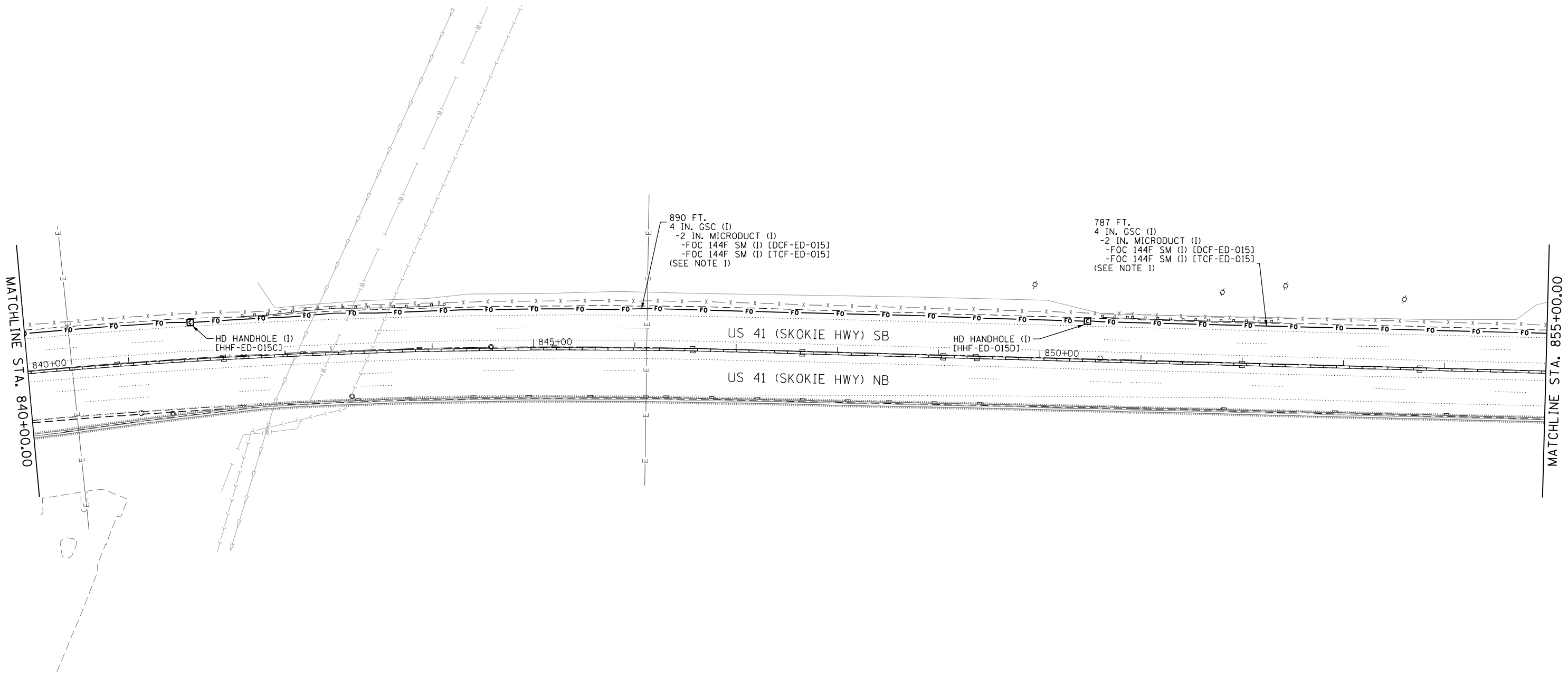
**INTELLIGENT TRANSPORTATION SYSTEMS**  
**CONSTRUCTION PLANS**

SCALE: 1" = 50' SHEET 66 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	144
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-66





890 FT.  
 4 IN. GSC (I)  
 -2 IN. MICRODUCT (I)  
 -FOC 144F SM (I) [DCF-ED-015]  
 -FOC 144F SM (I) [TCF-ED-015]  
 (SEE NOTE 1)

787 FT.  
 4 IN. GSC (I)  
 -2 IN. MICRODUCT (I)  
 -FOC 144F SM (I) [DCF-ED-015]  
 -FOC 144F SM (I) [TCF-ED-015]  
 (SEE NOTE 1)

HD HANDHOLE (I)  
 [HHF-ED-015C]

HD HANDHOLE (I)  
 [HHF-ED-015D]

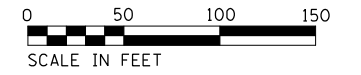
US 41 (SKOKIE HWY) SB

US 41 (SKOKIE HWY) NB

MATCHLINE STA. 840+00.00

MATCHLINE STA. 855+00.00

NOTES:  
 1. CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS



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**Jacobs**

USER NAME = BREITEMF	DESIGNED - JJZ	REVISED -
	DRAWN - HAR	REVISED -
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 7/19/2021	DATE - 02/28/2020	REVISED -

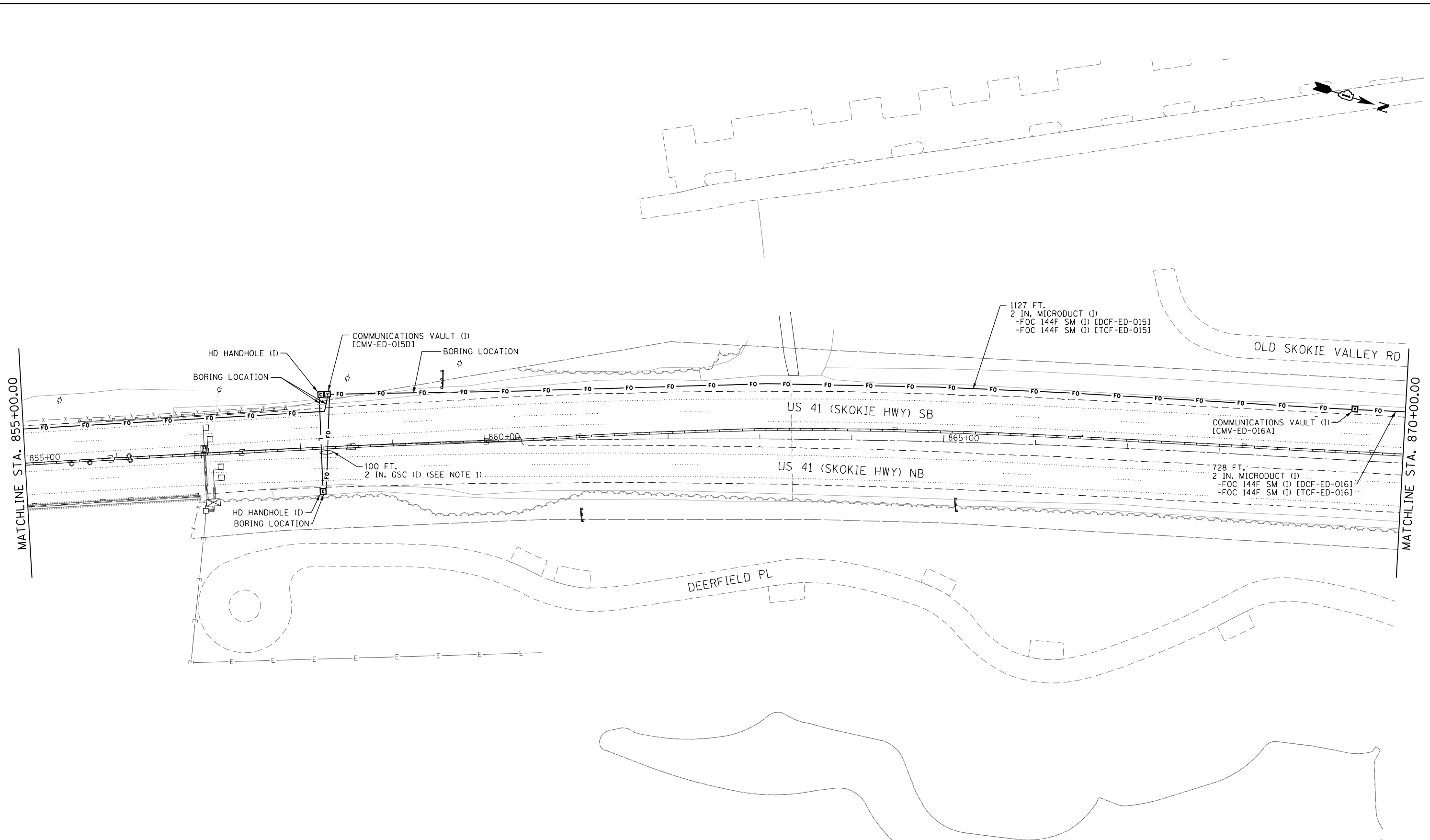
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS  
 CONSTRUCTION PLANS**  
 SCALE: 1" = 50' SHEET 67 OF 82 SHEETS STA. TO STA.

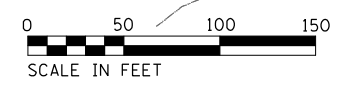
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	145
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-67

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NOTES:  
 1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER AND DETECTOR CABLES.



USER NAME = BREITEMF	DESIGNED - JJZ	REVISED - 07/14/2021
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

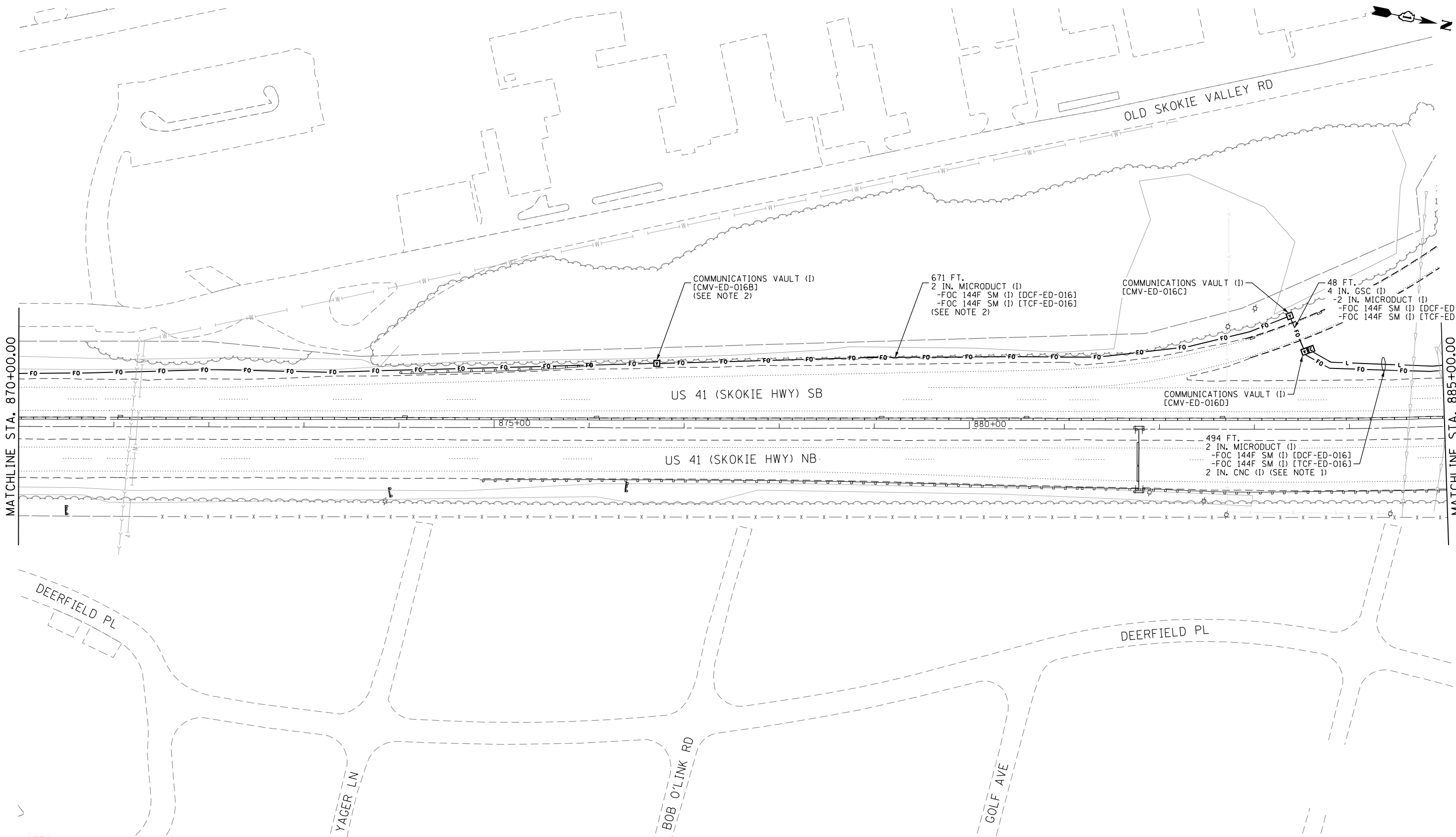
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS**  
**CONSTRUCTION PLANS**  
 SCALE: 1" = 50' SHEET 68 OF 82 SHEETS STA. TO STA.

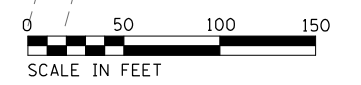
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	146
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	

ITS-68

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- NOTES:
1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE DETECTOR CABLES. CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS
  - 2.



USER NAME = BREITEMF	DESIGNED - JJZ	REVISED - 07/14/2021
	DRAWN - HAR	REVISED -
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 7/19/2021	DATE - 02/28/2020	REVISED -

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

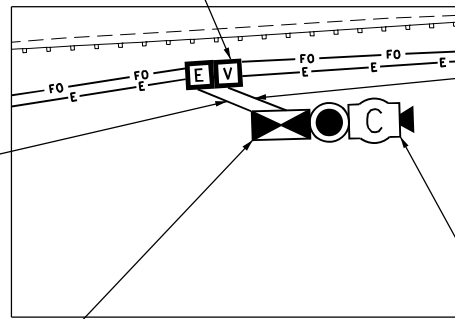
**INTELLIGENT TRANSPORTATION SYSTEMS**  
**CONSTRUCTION PLANS**  
 SCALE: 1" = 50' SHEET 69 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-06B1	COOK/LAKE	388	147
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-69

COMMUNICATIONS VAULT (I) [CMV-ED-016I]  
-F.O. SPLICE-LATERAL (I)

30 FT.  
2 IN. CNC (I)  
-(2) 1/C NO. 6 (I)  
-1/C NO. 8 (GRN) (I)  
2 IN. CNC (I)

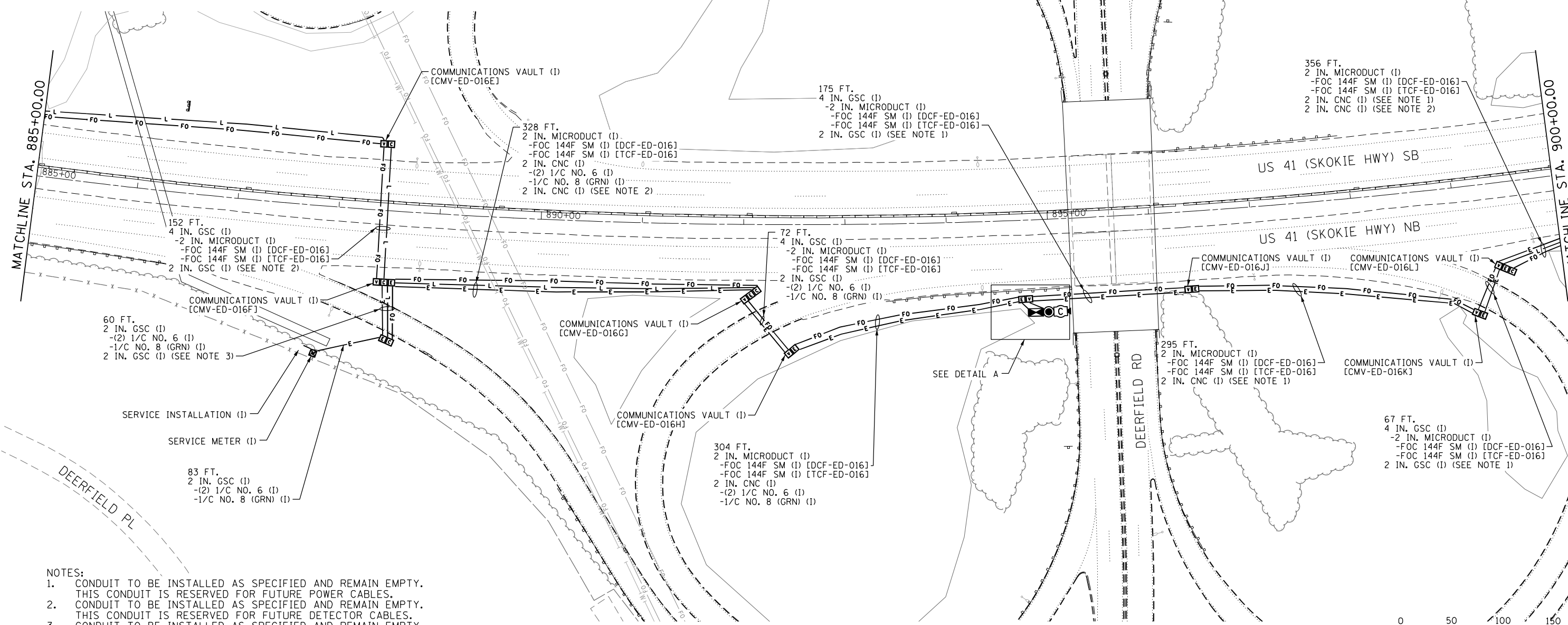


**DETAIL A**  
NOT TO SCALE

30 FT.  
2 IN. CNC (I)  
-FOC 12F SM (I) [LCF-ED-016a]  
(3) 2 IN. CNC (I)

CCTV CAMERA POLE, STEEL, 80 FT. (I)  
-CCTV CAMERA (I) [CCTV-ED-016]  
-CCTV CAMERA LOWERING DEVICE (I)  
-CCTV CAMERA POLE FOUNDATION (I) (SEE NOTE 4)

GROUND-MOUNTED CABINET (I) [CAB-ED-016]  
-F.O. TERMINATION PANEL (I) [PPF-ED-016]  
-(12) TERMINATE FIBER (I)  
-LAYER 3 (NETWORK) SWITCH (I)  
-CCTV EQUIPMENT (I)



356 FT.  
2 IN. MICRODUCT (I)  
-FOC 144F SM (I) [DCF-ED-016]  
-FOC 144F SM (I) [TCF-ED-016]  
2 IN. CNC (I) (SEE NOTE 1)  
2 IN. CNC (I) (SEE NOTE 2)

175 FT.  
4 IN. GSC (I)  
-2 IN. MICRODUCT (I)  
-FOC 144F SM (I) [DCF-ED-016]  
-FOC 144F SM (I) [TCF-ED-016]  
2 IN. GSC (I) (SEE NOTE 1)

328 FT.  
2 IN. MICRODUCT (I)  
-FOC 144F SM (I) [DCF-ED-016]  
-FOC 144F SM (I) [TCF-ED-016]  
2 IN. CNC (I)  
-(2) 1/C NO. 6 (I)  
-1/C NO. 8 (GRN) (I)  
2 IN. CNC (I) (SEE NOTE 2)

152 FT.  
4 IN. GSC (I)  
-2 IN. MICRODUCT (I)  
-FOC 144F SM (I) [DCF-ED-016]  
-FOC 144F SM (I) [TCF-ED-016]  
2 IN. GSC (I) (SEE NOTE 2)

72 FT.  
4 IN. GSC (I)  
-2 IN. MICRODUCT (I)  
-FOC 144F SM (I) [DCF-ED-016]  
-FOC 144F SM (I) [TCF-ED-016]  
2 IN. GSC (I)  
-(2) 1/C NO. 6 (I)  
-1/C NO. 8 (GRN) (I)

60 FT.  
2 IN. GSC (I)  
-(2) 1/C NO. 6 (I)  
-1/C NO. 8 (GRN) (I)  
2 IN. GSC (I) (SEE NOTE 3)

SERVICE INSTALLATION (I)  
SERVICE METER (I)

83 FT.  
2 IN. GSC (I)  
-(2) 1/C NO. 6 (I)  
-1/C NO. 8 (GRN) (I)

304 FT.  
2 IN. MICRODUCT (I)  
-FOC 144F SM (I) [DCF-ED-016]  
-FOC 144F SM (I) [TCF-ED-016]  
2 IN. CNC (I)  
-(2) 1/C NO. 6 (I)  
-1/C NO. 8 (GRN) (I)

295 FT.  
2 IN. MICRODUCT (I)  
-FOC 144F SM (I) [DCF-ED-016]  
-FOC 144F SM (I) [TCF-ED-016]  
2 IN. CNC (I) (SEE NOTE 1)

67 FT.  
4 IN. GSC (I)  
-2 IN. MICRODUCT (I)  
-FOC 144F SM (I) [DCF-ED-016]  
-FOC 144F SM (I) [TCF-ED-016]  
2 IN. GSC (I) (SEE NOTE 1)

**NOTES:**

1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE POWER CABLES.
2. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE DETECTOR CABLES.
3. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER AND DETECTOR CABLES.
4. SEE SHEET DET-03 FOR 80' CCTV CAMERA POLE FOUNDATION DEPTH.



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**Jacobs**

USER NAME = BREITEMF	DESIGNED - JJZ	REVISED - 07/14/2021
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

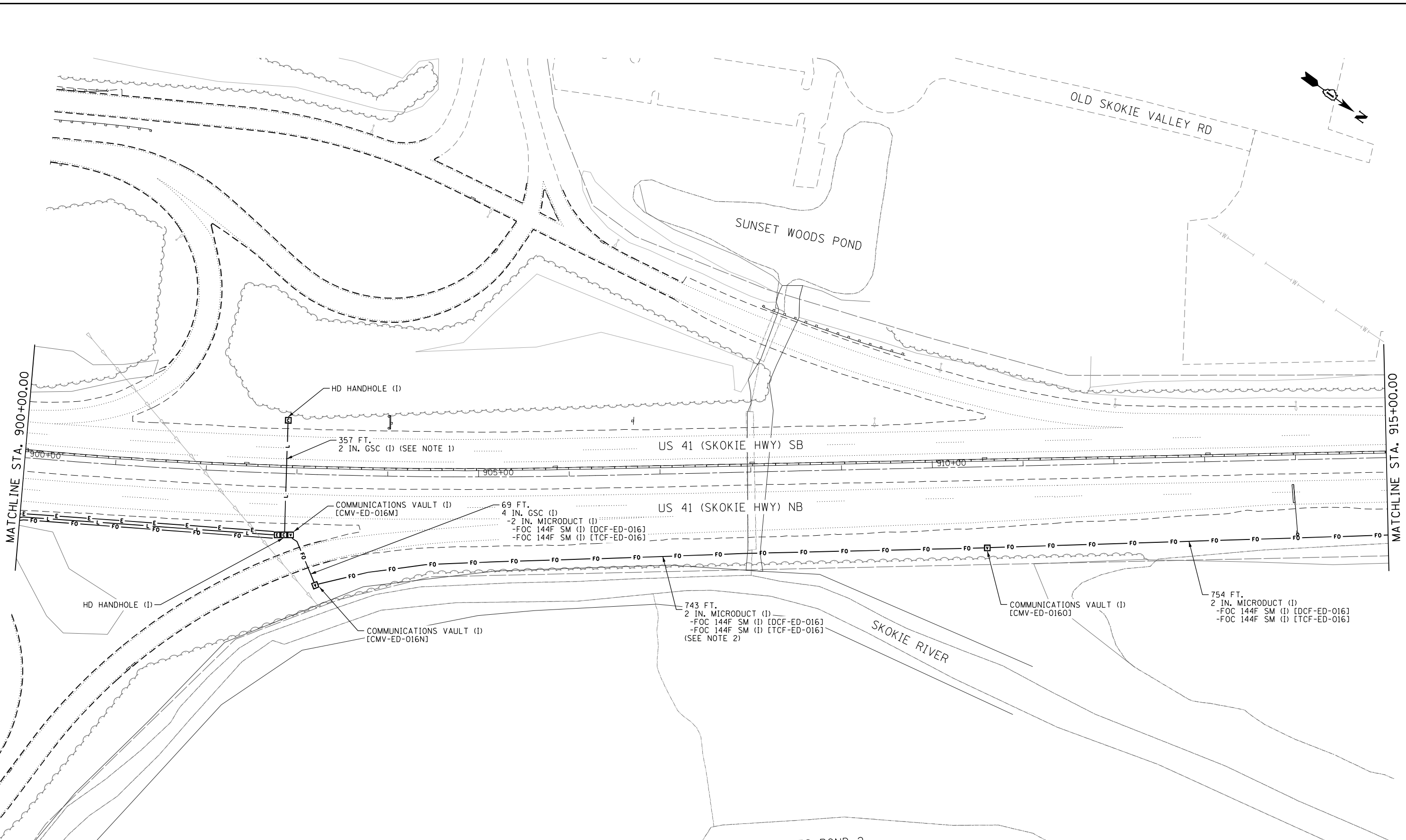
**INTELLIGENT TRANSPORTATION SYSTEMS  
CONSTRUCTION PLANS**

SCALE: 1" = 50' SHEET 70 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	148
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-70

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- NOTES:
- CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE DETECTOR CABLES. CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS OR SKOKIE RIVER
  -



ITS-71



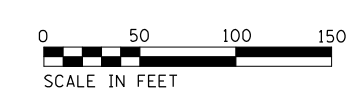
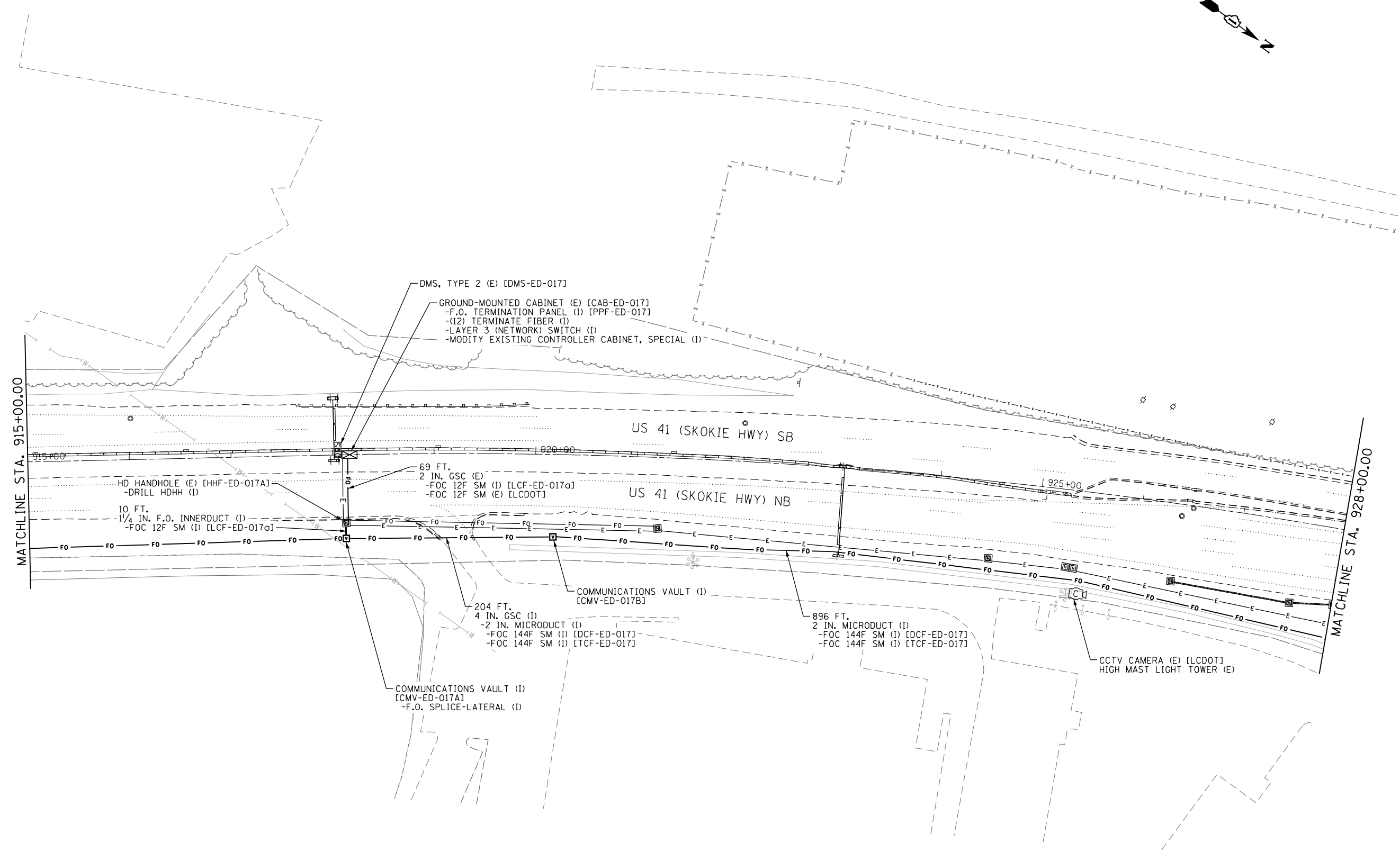
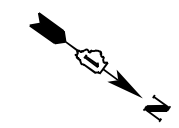
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PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

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

**INTELLIGENT TRANSPORTATION SYSTEMS**  
**CONSTRUCTION PLANS**

SCALE: 1" = 50'      SHEET 71      OF 82 SHEETS STA.      TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	149
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				



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USER NAME = BREITEMF	DESIGNED - JJZ	REVISED - 07/14/2021
DRAWN - HAR	REVISIONS -	
PLOT SCALE =	CHECKED - CRH	REVISIONS -
PLOT DATE = 7/19/2021	DATE - 02/28/2020	REVISIONS -

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

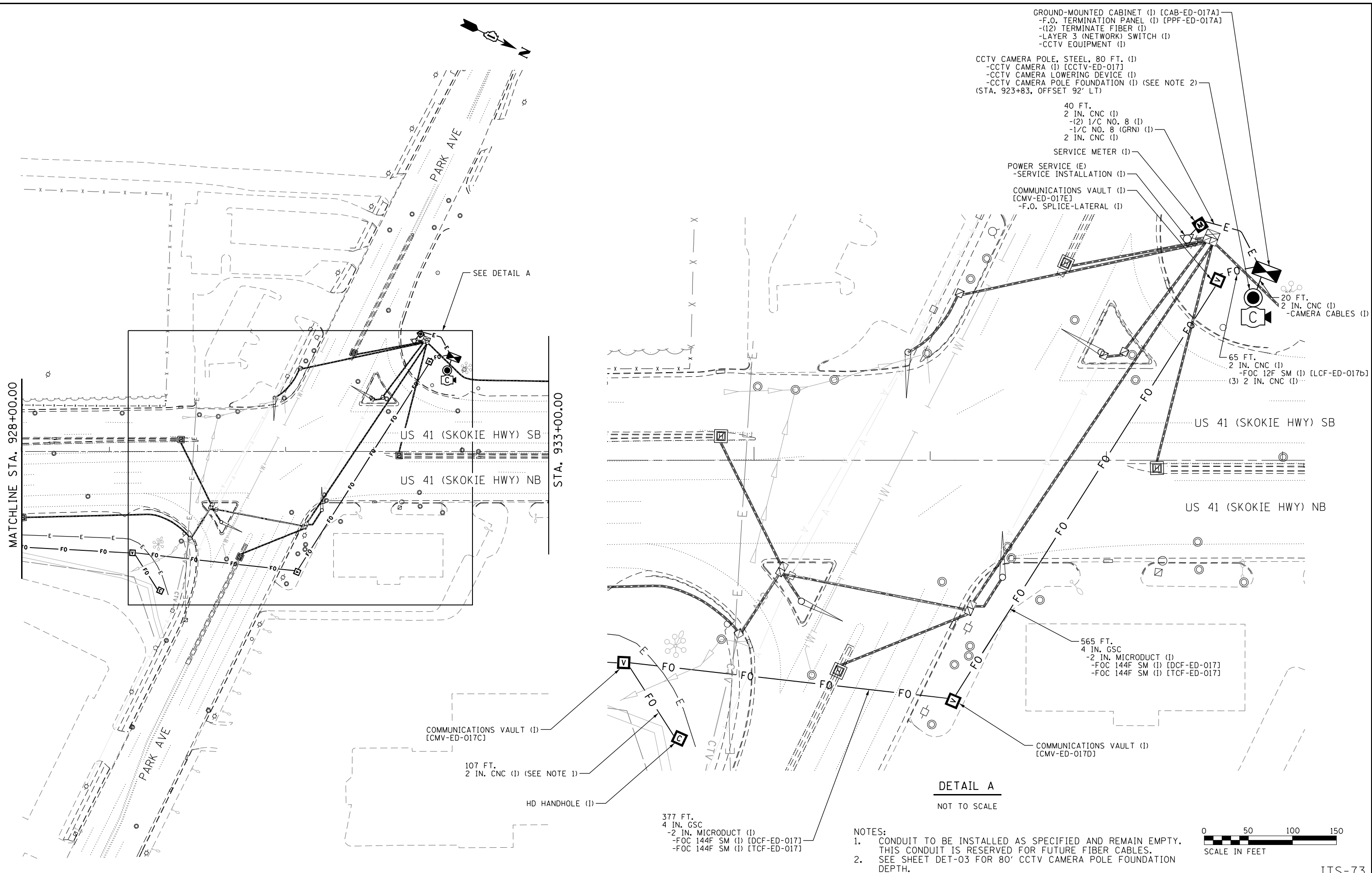
**INTELLIGENT TRANSPORTATION SYSTEMS**  
**CONSTRUCTION PLANS**

SCALE: 1" = 50' SHEET 72 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	150
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	

ITS-72

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- GROUND-MOUNTED CABINET (1) [CAB-ED-017A]
- F.O. TERMINATION PANEL (1) [PPF-ED-017A]
- (12) TERMINATE FIBER (1)
- LAYER 3 (NETWORK) SWITCH (1)
- CCTV EQUIPMENT (1)
- CCTV CAMERA POLE, STEEL, 80 FT. (1)
- CCTV CAMERA (1) [CCTV-ED-017]
- CCTV CAMERA LOWERING DEVICE (1)
- CCTV CAMERA POLE FOUNDATION (1) (SEE NOTE 2)
- (STA. 923+83, OFFSET 92' LT)
- 40 FT.
- 2 IN. CNC (1)
- (2) 1/2 NO. 8 (1)
- 1/2 NO. 8 (GRN) (1)
- 2 IN. CNC (1)
- SERVICE METER (1)
- POWER SERVICE (E)
- SERVICE INSTALLATION (1)
- COMMUNICATIONS VAULT (1)
- [CMV-ED-017E]
- F.O. SPLICE-LATERAL (1)
- 20 FT.
- 2 IN. CNC (1)
- CAMERA CABLES (1)
- 65 FT.
- 2 IN. CNC (1)
- FOC 12F SM (1) [LCF-ED-017b]
- (3) 2 IN. CNC (1)

- 565 FT.
- 4 IN. GSC
- 2 IN. MICRODUCT (1)
- FOC 144F SM (1) [DCF-ED-017]
- FOC 144F SM (1) [TCF-ED-017]

COMMUNICATIONS VAULT (1)  
[CMV-ED-017C]

107 FT.  
2 IN. CNC (1) (SEE NOTE 1)

HD HANDHOLE (1)

377 FT.  
4 IN. GSC

- 2 IN. MICRODUCT (1)
- FOC 144F SM (1) [DCF-ED-017]
- FOC 144F SM (1) [TCF-ED-017]

- NOTES:
1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE FIBER CABLES.
  2. SEE SHEET DET-03 FOR 80' CCTV CAMERA POLE FOUNDATION DEPTH.



USER NAME = BREITEMF	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

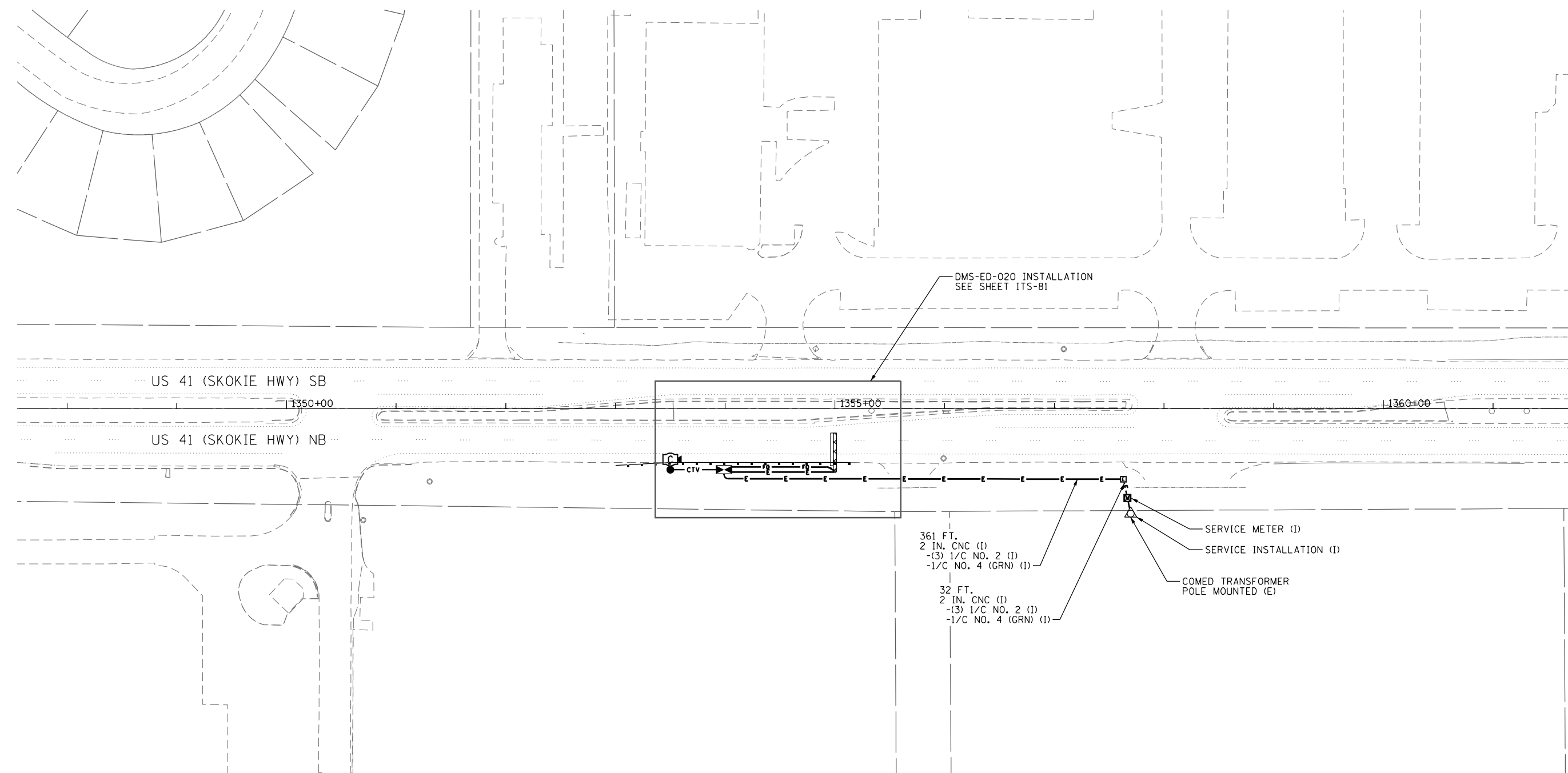
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS  
CONSTRUCTION PLANS**

SCALE: 1" = 50'    SHEET 73 OF 82 SHEETS STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	151
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-73



NOTES:  
 1. THE CONTRACTOR SHALL LOCATE THE NEW SERVICE METER PEDESTAL INSIDE STATE RIGHT-OF-WAY.



ITS-74

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USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
	DRAWN - HAR	REVISED -
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

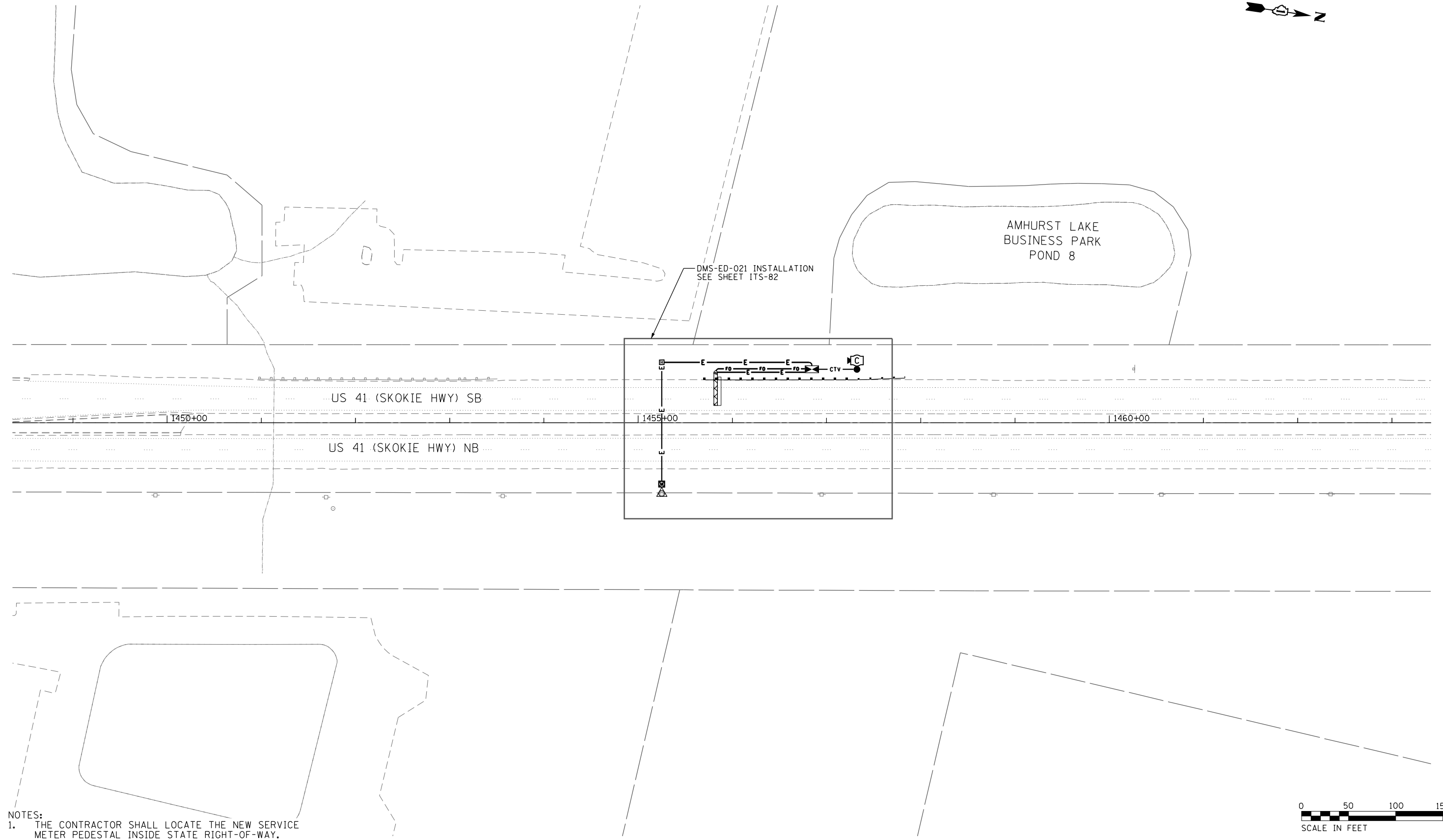
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**INTELLIGENT TRANSPORTATION SYSTEMS  
 CONSTRUCTION PLANS**

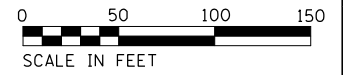
SCALE: 1" = 50' SHEET 74 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	152
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				





NOTES:  
 1. THE CONTRACTOR SHALL LOCATE THE NEW SERVICE METER PEDESTAL INSIDE STATE RIGHT-OF-WAY.



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**Jacobs**

USER NAME = zvoianjj	DESIGNED - JJZ	REVISED -
	DRAWN - HAR	REVISED -
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

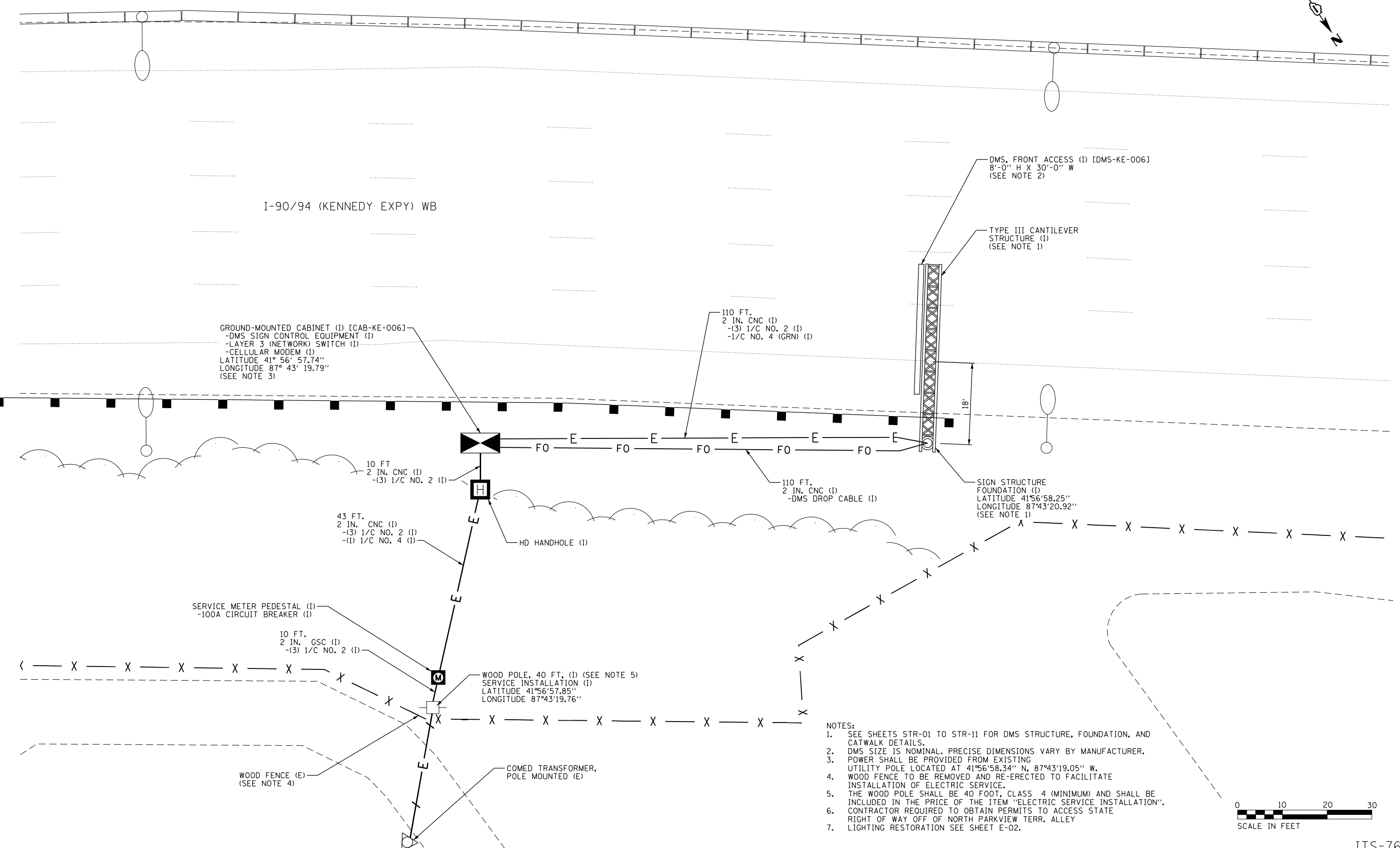
**INTELLIGENT TRANSPORTATION SYSTEMS  
 CONSTRUCTION PLANS**  
 SCALE: 1" = 50' SHEET 75 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0681	COOK/LAKE	388	153
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-75



I-90/94 (KENNEDY EXPY) WB



GROUND-MOUNTED CABINET (1) [CAB-KE-006]  
 -DMS SIGN CONTROL EQUIPMENT (1)  
 -LAYER 3 (NETWORK) SWITCH (1)  
 -CELLULAR MODEM (1)  
 LATITUDE 41° 56' 57.74"  
 LONGITUDE 87° 43' 19.79"  
 (SEE NOTE 3)

DMS, FRONT ACCESS (1) [DMS-KE-006]  
 8'-0" H X 30'-0" W  
 (SEE NOTE 2)

TYPE III CANTILEVER  
 STRUCTURE (1)  
 (SEE NOTE 1)

110 FT.  
 2 IN. CNC (1)  
 -(3) 1/C NO. 2 (1)  
 -1/C NO. 4 (GRN) (1)

10 FT.  
 2 IN. CNC (1)  
 -(3) 1/C NO. 2 (1)

43 FT.  
 2 IN. CNC (1)  
 -(3) 1/C NO. 2 (1)  
 -(1) 1/C NO. 4 (1)

110 FT.  
 2 IN. CNC (1)  
 -DMS DROP CABLE (1)

SIGN STRUCTURE  
 FOUNDATION (1)  
 LATITUDE 41°56'58.25"  
 LONGITUDE 87°43'20.92"  
 (SEE NOTE 1)

SERVICE METER PEDESTAL (1)  
 -100A CIRCUIT BREAKER (1)

10 FT.  
 2 IN. GSC (1)  
 -(3) 1/C NO. 2 (1)

WOOD POLE, 40 FT. (1) (SEE NOTE 5)  
 SERVICE INSTALLATION (1)  
 LATITUDE 41°56'57.85"  
 LONGITUDE 87°43'19.76"

WOOD FENCE (E)  
 (SEE NOTE 4)

COMED TRANSFORMER,  
 POLE MOUNTED (E)

- NOTES:
- SEE SHEETS STR-01 TO STR-11 FOR DMS STRUCTURE, FOUNDATION, AND CATWALK DETAILS.
  - DMS SIZE IS NOMINAL. PRECISE DIMENSIONS VARY BY MANUFACTURER.
  - POWER SHALL BE PROVIDED FROM EXISTING UTILITY POLE LOCATED AT 41°56'58.34" N, 87°43'19.05" W.
  - WOOD FENCE TO BE REMOVED AND RE-ERECTED TO FACILITATE INSTALLATION OF ELECTRIC SERVICE.
  - THE WOOD POLE SHALL BE 40 FOOT, CLASS 4 (MINIMUM) AND SHALL BE INCLUDED IN THE PRICE OF THE ITEM "ELECTRIC SERVICE INSTALLATION".
  - CONTRACTOR REQUIRED TO OBTAIN PERMITS TO ACCESS STATE RIGHT OF WAY OFF OF NORTH PARKVIEW TERR. ALLEY
  - LIGHTING RESTORATION SEE SHEET E-02.



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**Jacobs**

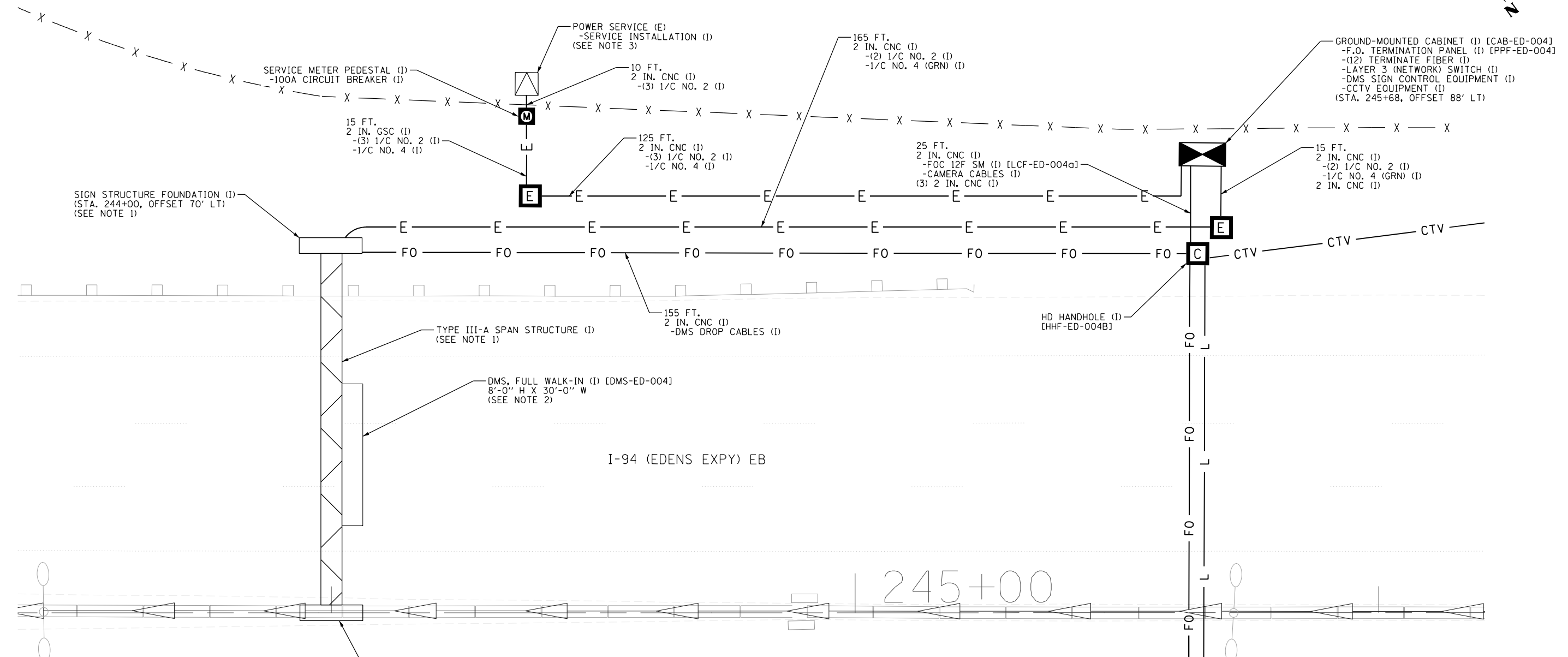
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PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DETAILED DMS INSTALLATION PLAN  
 I-94 WB AT IRVING PARK ROAD (DMS-KE-006)  
 SCALE: 1" = 10' SHEET 76 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0681	COOK/LAKE	388	154
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-76



- NOTES:
- SEE SHEETS STR-12 TO STR-25 FOR DMS STRUCTURE, FOUNDATION, AND CATWALK DETAILS.
  - DMS SIZE IS NOMINAL. PRECISE DIMENSIONS VARY BY MANUFACTURER. THE DMS SHALL BE CENTERED OVER THE CENTER OF TRAVELED PAVEMENT.
  - POWER SERVICE SHALL BE RECONNECTED TO EXISTING SERVICE.
  - PROVIDE AERIAL CABLING TO MAINTAIN OPERATION OF MEDIAN LIGHTING CIRCUITS IMPACTED BY FOUNDATION INSTALLATION. CONNECT NEW CONDUIT INCLUDED IN MEDIAN FOUNDATION TO EXISTING CONDUIT IN MEDIAN BARRIER BASE. FOLLOWING FOUNDATION INSTALLATION, REMOVE AND REPLACE EXISTING CABLE AND REMOVE AERIAL CABLE.



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**Jacobs**

USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
	DRAWN - HAR	REVISED -
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

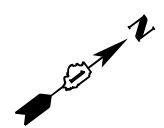
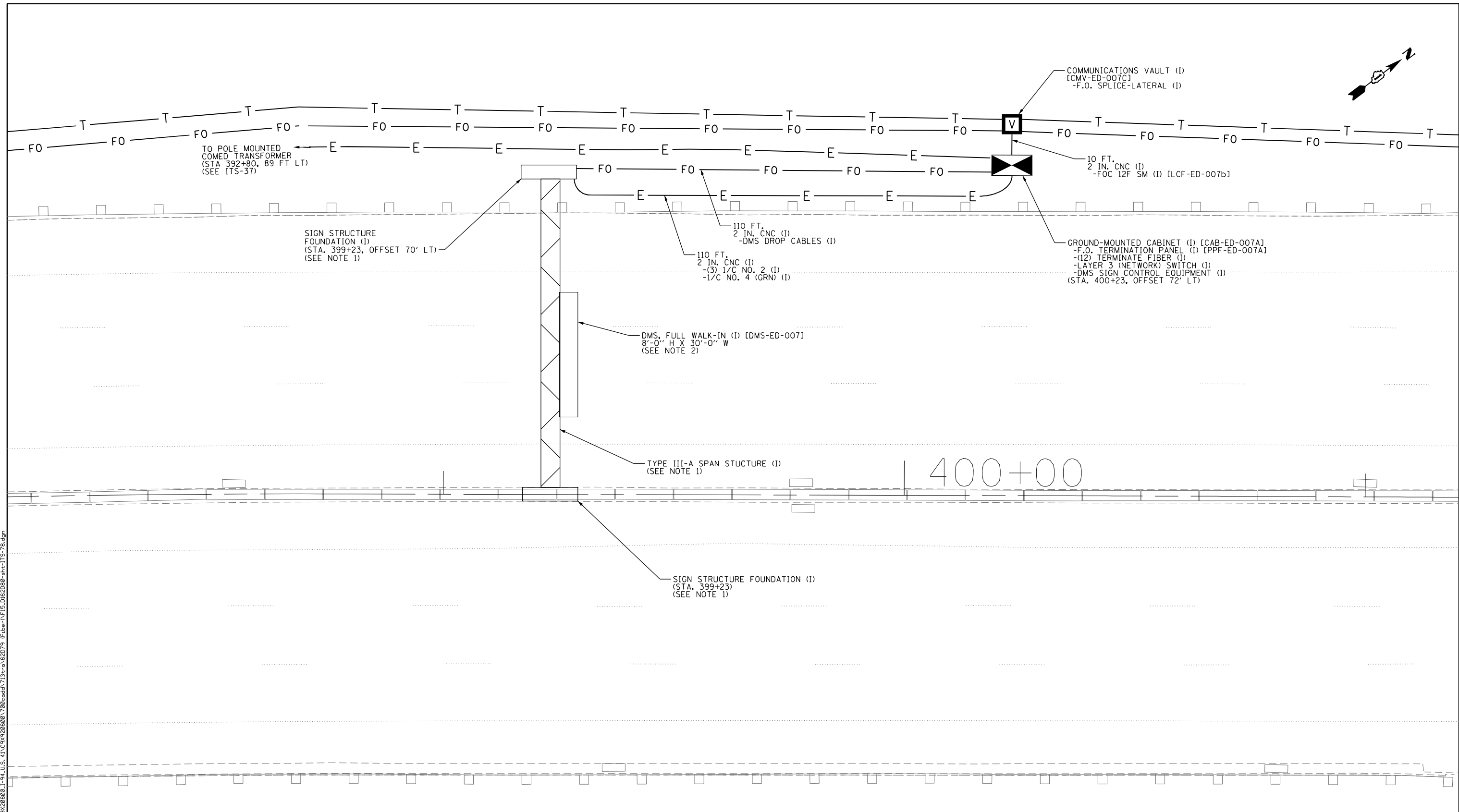
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILED DMS INSTALLATION PLAN  
I-94 EB NORTH OF TOUHY AVENUE (DMS-ED-004)**

SCALE: 1" = 10' SHEET 77 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0681	COOK/LAKE	388	155
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-77



- NOTES:
- SEE SHEETS STR-12 TO STR-25 FOR DMS STRUCTURE, FOUNDATION, AND CATWALK DETAILS.
  - DMS SIZE IS NOMINAL. PRECISE DIMENSIONS VARY BY MANUFACTURER. THE DMS SHALL BE CENTERED OVER THE CENTER OF TRAVELED PAVEMENT.
  - PROVIDE AERIAL CABLING TO MAINTAIN OPERATION OF MEDIAN LIGHTING CIRCUITS IMPACTED BY FOUNDATION INSTALLATION. CONNECT NEW CONDUIT INCLUDED IN MEDIAN FOUNDATION TO EXISTING CONDUIT IN MEDIAN BARRIER BASE. FOLLOWING FOUNDATION INSTALLATION, REMOVE AND REPLACE EXISTING CABLE AND REMOVE AERIAL CABLE.



ITS-78

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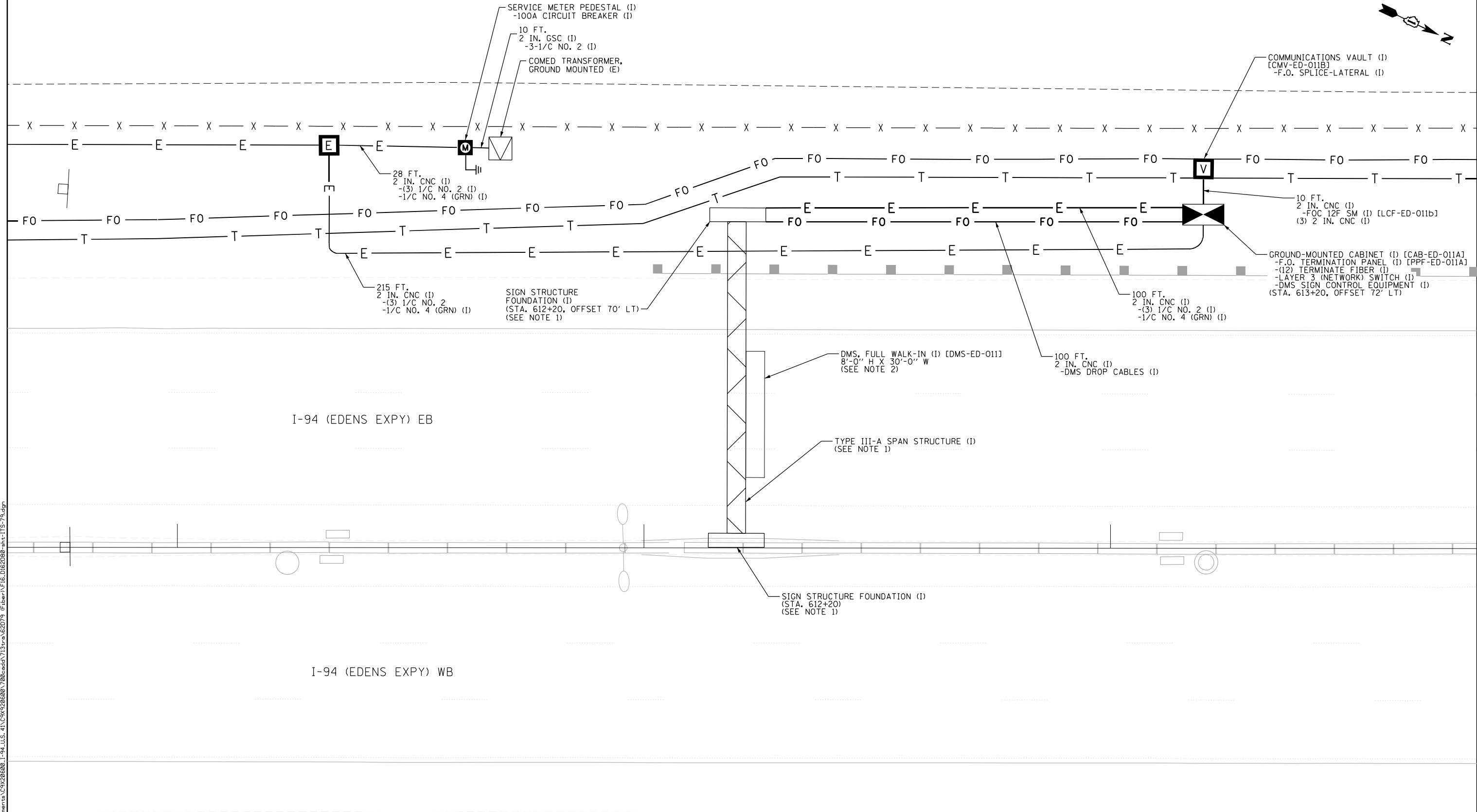
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PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**DETAILED DMS INSTALLATION PLAN**  
**I-94 EB NORTH OF GOLF ROAD (DMS-ED-007)**

SCALE: 1" = 10' SHEET 78 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0681	COOK/LAKE	388	156
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				



**NOTES:**

- SEE SHEETS STR-12 TO STR-25 FOR DMS STRUCTURE, FOUNDATION, AND CATWALK DETAILS.
- DMS SIZE IS NOMINAL. PRECISE DIMENSIONS VARY BY MANUFACTURER. THE DMS SHALL BE CENTERED OVER THE CENTER OF TRAVELED PAVEMENT.
- CONNECT NEW CONDUIT INCLUDED IN MEDIAN FOUNDATION TO EXISTING LIGHTING CONDUIT IN MEDIAN BARRIER BASE. REMOVE AND REPLACE EXISTING CABLE AND REMOVE AERIAL CABLE.



ITS-79

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USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
	DRAWN - HAR	REVISED -
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

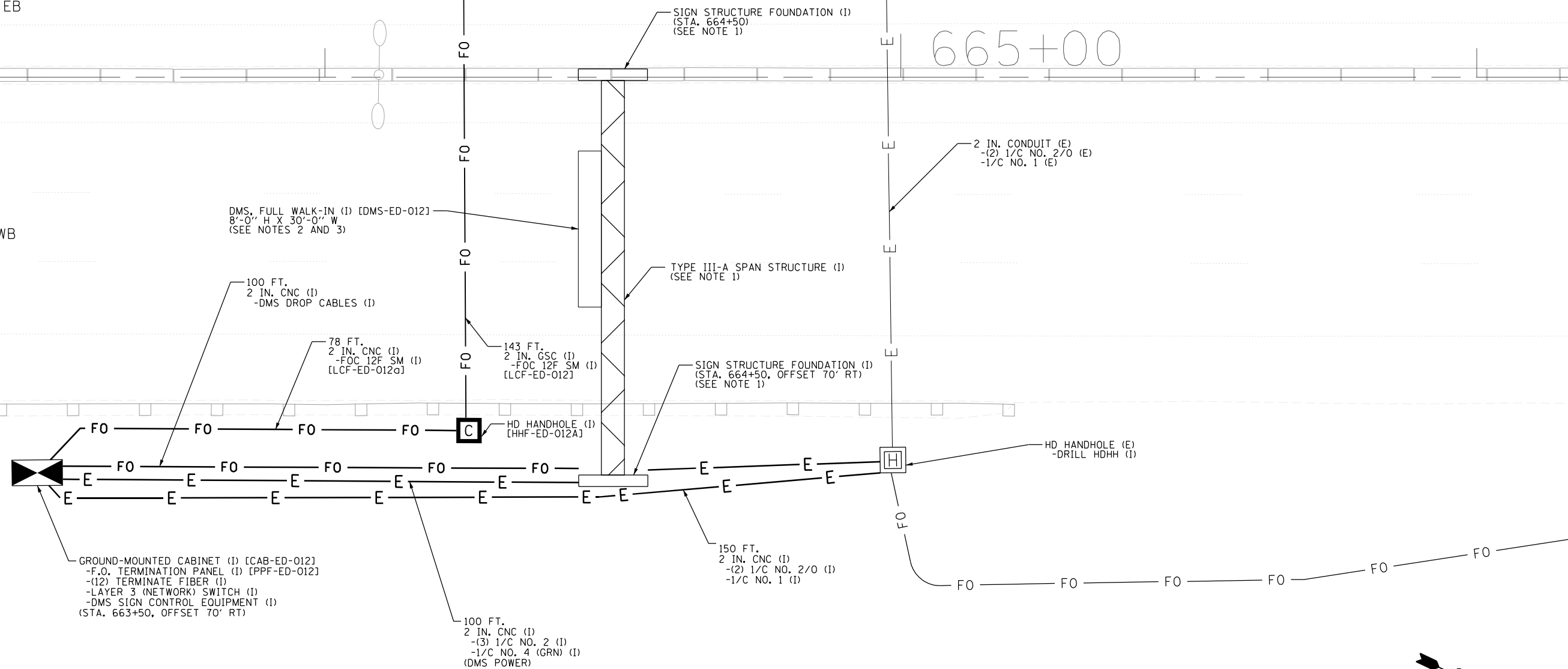
**DETAILED DMS INSTALLATION PLAN**  
**I-94 EB NORTH OF LAKE AVENUE (DMS-ED-011)**  
 SCALE: 1" = 10' SHEET 79 OF 82 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	157
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	

I-94 (EDENS EXPY) EB

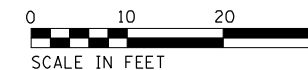
I-94 (EDENS EXPY) WB

665+00



NOTES:

- SEE SHEETS STR-12 TO STR-25 FOR DMS STRUCTURE, FOUNDATION, AND CATWALK DETAILS.
- DMS SIZE IS NOMINAL. PRECISE DIMENSIONS VARY BY MANUFACTURER. THE DMS SHALL BE CENTERED OVER THE CENTER OF TRAVELED PAVEMENT.
- SEE SHEET DET-21 FOR DMS INSTALLATION DETAILS.
- CONNECT NEW CONDUIT INCLUDED IN MEDIAN FOUNDATION TO EXISTING LIGHTING CONDUIT IN MEDIAN BARRIER BASE. REMOVE AND REPLACE EXISTING CABLE AND REMOVE AERIAL CABLE.
- ELECTRICAL SERVICE SHALL BE 240V/480V 1-PHASE, 2-WIRE.



ITS-80

Jacobs

USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAILED DMS INSTALLATION PLAN  
I-94 WB NORTH OF LAKE AVENUE (DMS-ED-012)

SCALE: 1" = 10' SHEET 80 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0681	COOK/LAKE	388	158
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	

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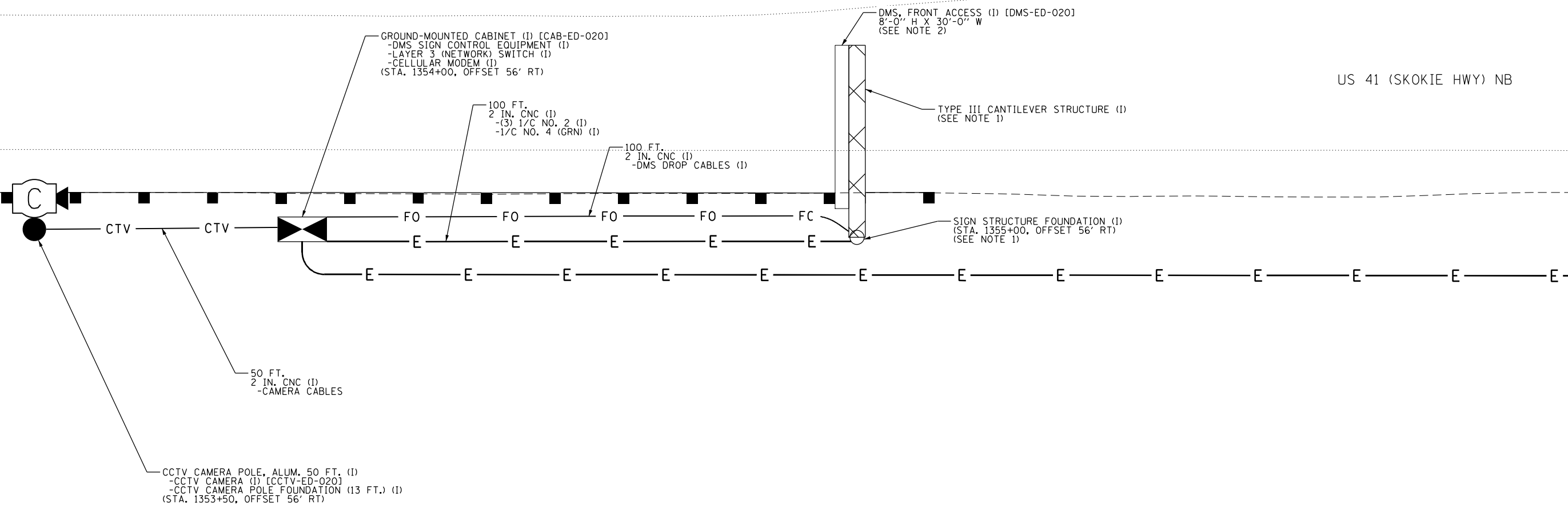


US 41 (SKOKIE HWY) SB

1355+00

US 41 (SKOKIE HWY) NB

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- NOTES:  
 1. SEE SHEETS STR-01 TO STR-11 FOR DMS STRUCTURE, FOUNDATION, AND CATWALK DETAILS.  
 2. DMS SIZE IS NOMINAL. PRECISE DIMENSIONS VARY BY MANUFACTURER.



Jacobs

USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**DETAILED DMS INSTALLATION PLAN**  
**I-94 NB AT IL ROUTE 137 (DMS-ED-020)**

SCALE: 1" = 10' SHEET 81 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0681	COOK/LAKE	388	159
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-81



CCTV CAMERA POLE, ALUM. 50 FT. (1)  
 -CCTV CAMERA (1) [CCTV-ED-021]  
 -CCTV CAMERA POLE FOUNDATION (13 FT.) (1)  
 (STA. 1457+32, OFFSET 57' LT)

162 FT.  
 2 IN. CNC (1)  
 -(3) 1/C NO. 2 (1)  
 -1/C NO. 4 (GRN) (1)

50 FT.  
 2 IN. CNC (1)  
 -CAMERA CABLES (1)

SIGN STRUCTURE FOUNDATION (1)  
 (STA. 1455+83, OFFSET 57' LT)  
 (SEE NOTE 1)

TYPE III CANTILEVER  
 STRUCTURE (1) (SEE NOTE 1)

DMS, FRONT ACCESS (1) [DMS-ED-021]  
 8'-0" H X 30'-0" W  
 (SEE NOTE 2)

102 FT.  
 2 IN. CNC (1)  
 -(3) 1/C NO. 2 (1)  
 -1/C NO. 4 (GRN) (1)

102 FT.  
 2 IN. CNC (1)  
 -DMS DROP CABLES (1)

GROUND-MOUNTED CABINET (1) [CAB-ED-021]  
 -DMS SIGN CONTROL EQUIPMENT (1)  
 -LAYER 3 (NETWORK) SWITCH (1)  
 -CELLULAR MODEM (1)  
 (STA. 1456+85, OFFSET 57' LT)

US 41 (SKOKIE HWY) SB

1455+00

US 41 (SKOKIE HWY) NB

129 FT.  
 2 IN. GSC (1)  
 -(3) 1/C NO. 2 (1)  
 -1/C NO. 4 (GRN) (1)

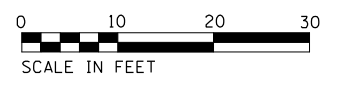
SERVICE METER PEDESTAL (1)  
 -100A CIRCUIT BREAKER (1)

10 FT.  
 2 IN. GSC (1)  
 -3-1/C NO. 2 (1)

SERVICE INSTALLATION (1)

COMED TRANSFORMER (E)

- NOTES:
- SEE SHEETS STR-01 TO STR-11 FOR DMS STRUCTURE, FOUNDATION, AND CATWALK DETAILS.
  - DMS SIZE IS NOMINAL. PRECISE DIMENSIONS VARY BY MANUFACTURER.
  - CONNECT NEW CONDUIT INCLUDED IN MEDIAN FOUNDATION TO EXISTING LIGHTING CONDUIT IN MEDIAN BARRIER BASE. REMOVE AND REPLACE EXISTING CABLE AND REMOVE AERIAL CABLE.



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USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

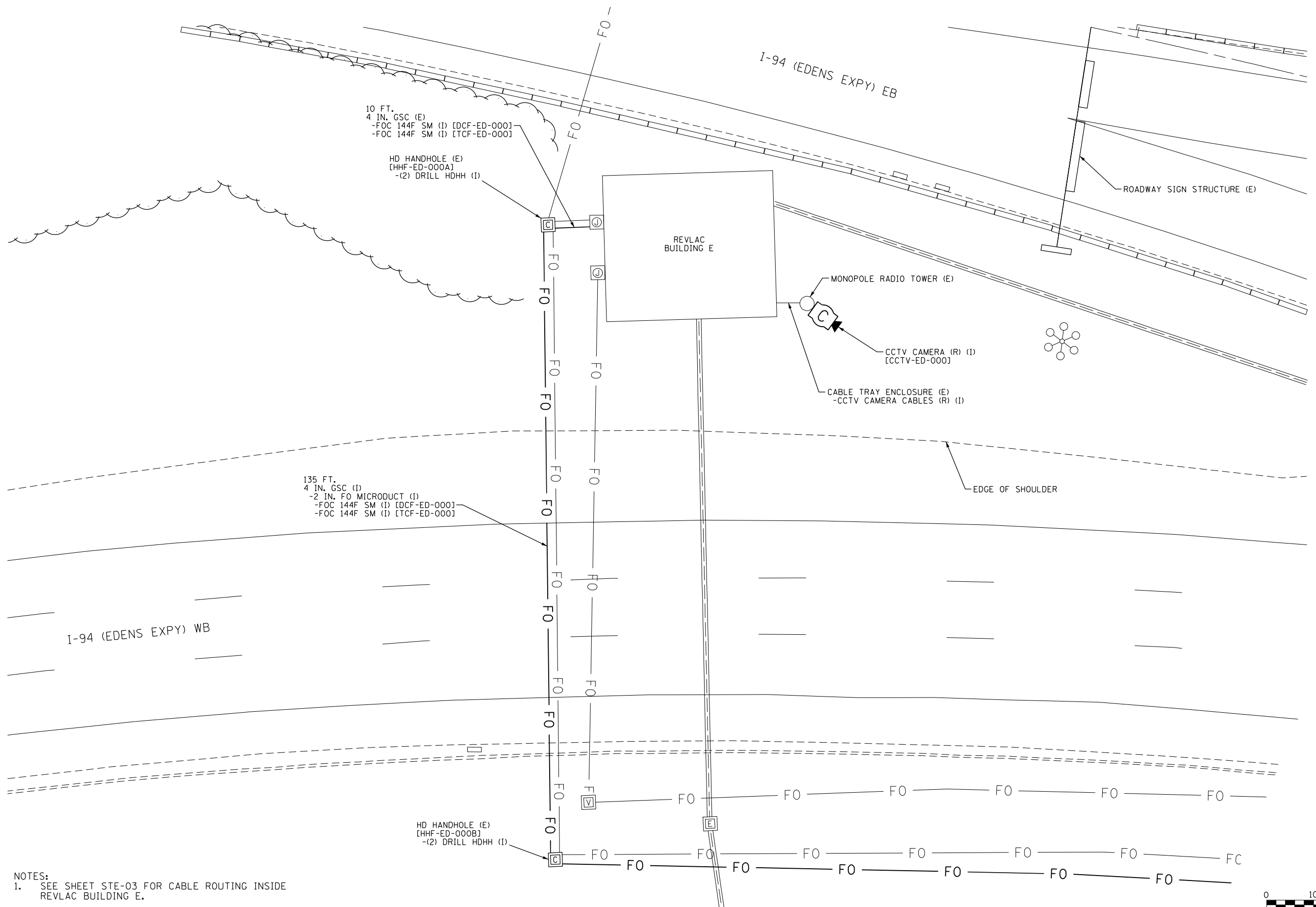
DETAILED DMS INSTALLATION PLAN  
 US 41 SB AT IL ROUTE 137 (DMS-ED-021)  
 SCALE: 1" = 10' SHEET 82 OF 82 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0681	COOK/LAKE	388	160
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

ITS-82



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NOTES:  
 1. SEE SHEET STE-03 FOR CABLE ROUTING INSIDE REVLA C BUILDING E.



STE-01



USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
	DRAWN - HAR	REVISED -
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

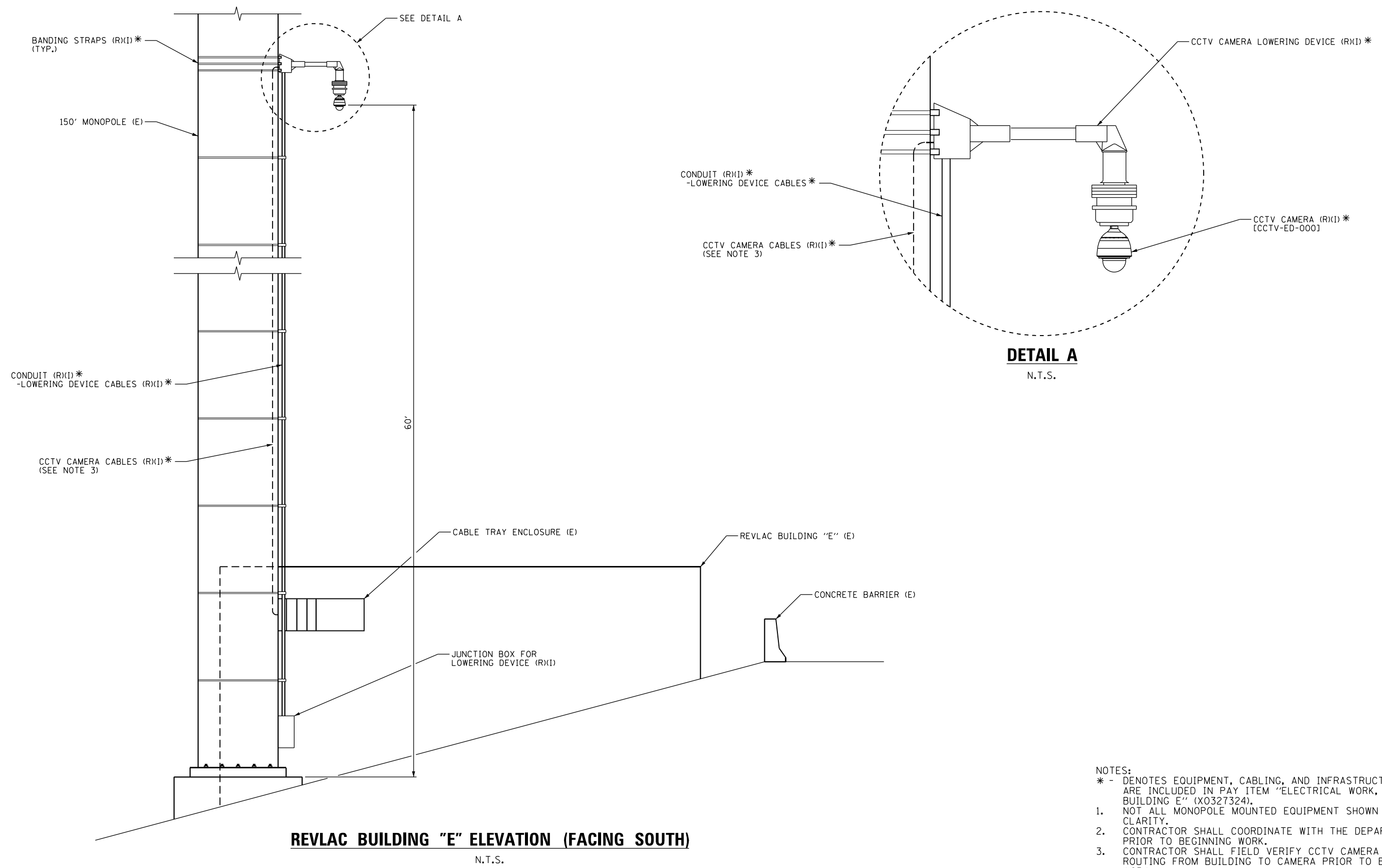
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SITE PLAN DETAIL  
 REVLA C BUILDING "E"**

SCALE: 1" = 20' SHEET 1 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-06BI	COOK/LAKE	388	161
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	

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- NOTES:**
- \* - DENOTES EQUIPMENT, CABLING, AND INFRASTRUCTURE THAT ARE INCLUDED IN PAY ITEM "ELECTRICAL WORK, IDOT BUILDING E" (X0327324).
  - 1. NOT ALL MONOPOLE MOUNTED EQUIPMENT SHOWN FOR CLARITY.
  - 2. CONTRACTOR SHALL COORDINATE WITH THE DEPARTMENT PRIOR TO BEGINNING WORK.
  - 3. CONTRACTOR SHALL FIELD VERIFY CCTV CAMERA CABLE ROUTING FROM BUILDING TO CAMERA PRIOR TO BEGINNING WORK.

STE-02

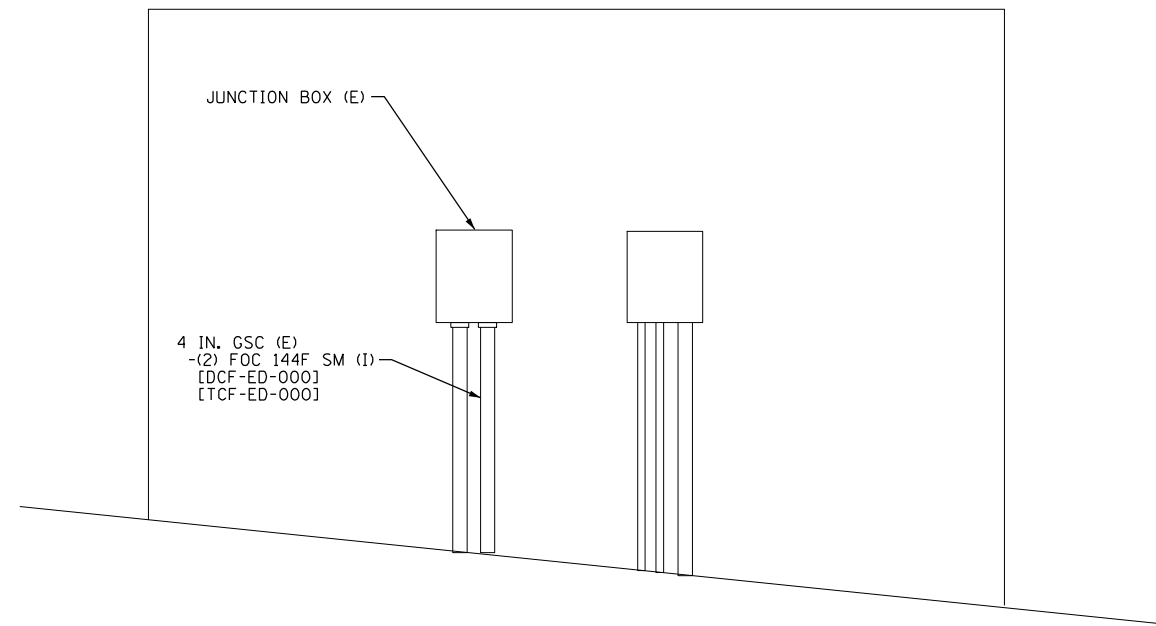


USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
	DRAWN - HAR	REVISED -
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

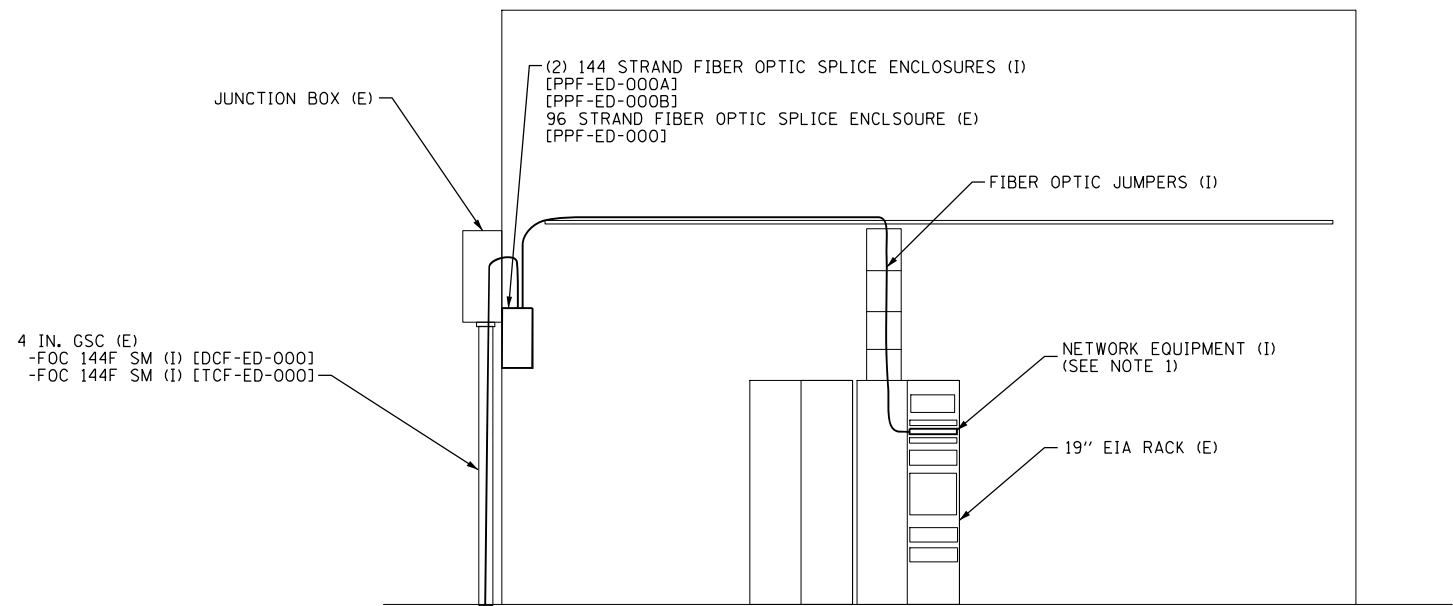
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>CAMERA TOWER MODIFICATION DETAIL</b> <b>REV LAC BUILDING "E"</b>		
SCALE: NTS	SHEET 2 OF 23 SHEETS STA.	TO STA.

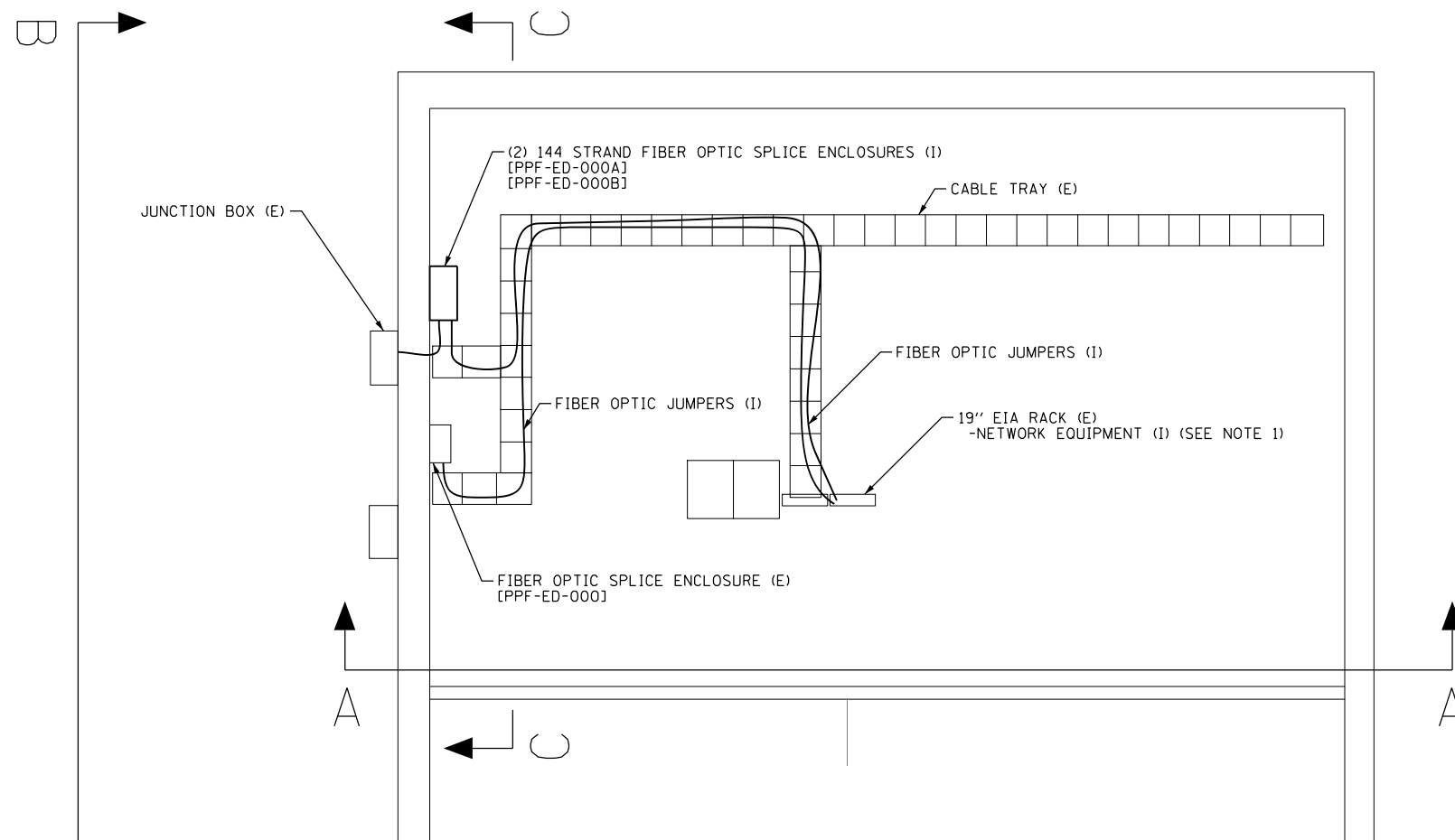
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	162
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				



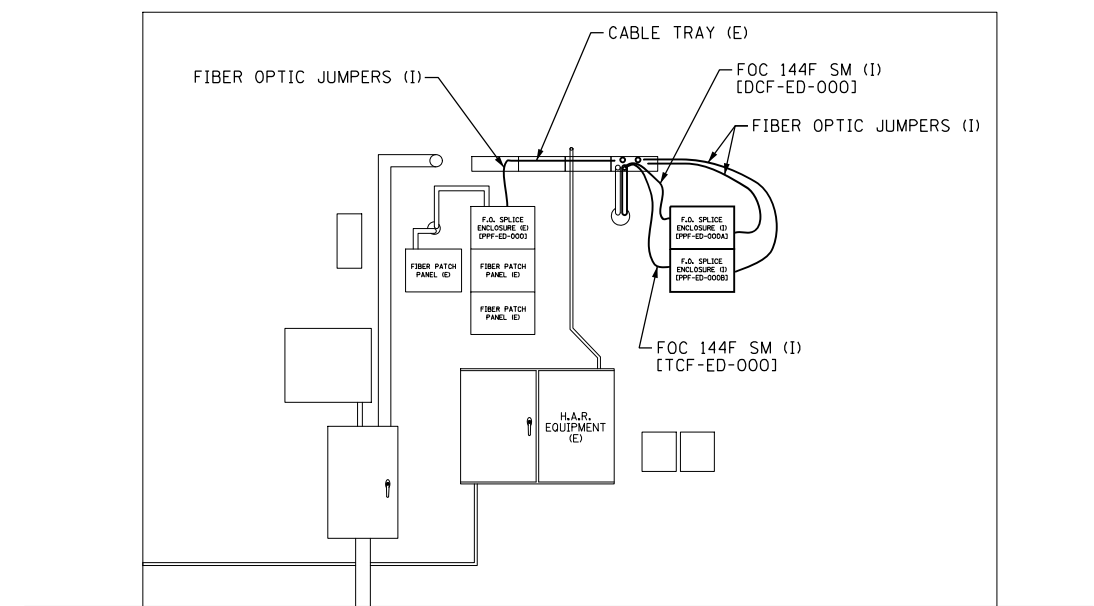
SECTION B-B



SECTION A-A



REV LAC BUILDING E - FLOOR PLAN



SECTION C-C

- NOTES:  
 1. CONTRACTOR SHALL INSTALL NETWORK EQUIPMENT AS SPECIFIED IN THE SPECIAL PROVISION "ELECTRICAL WORK, IDOT BUILDING E". CONTRACTOR SHALL COORDINATE WITH THE DEPARTMENT ON THE PRECISE LOCATION TO INSTALL THE EQUIPMENT IN THE RACK.

STE-03

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**Jacobs**

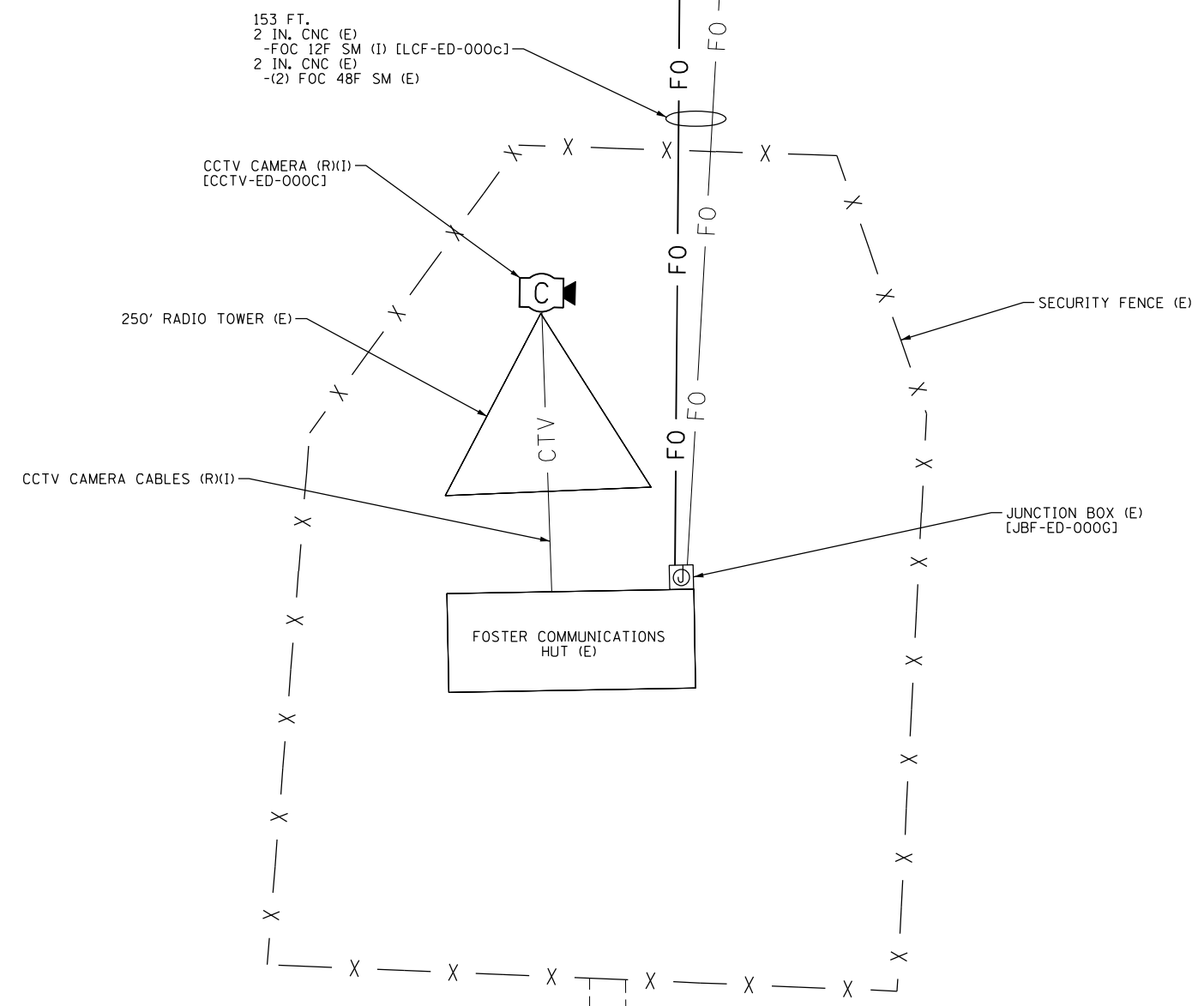
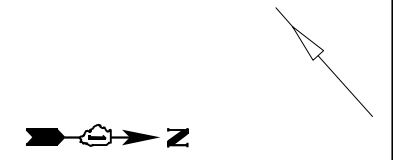
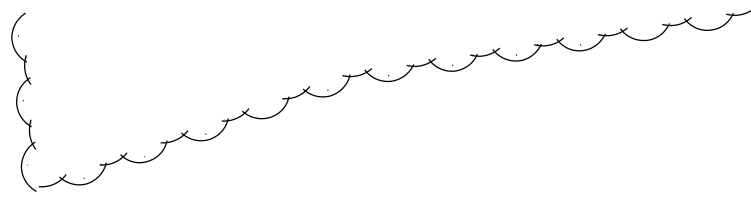
USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

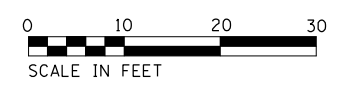
**INTERIOR BUILDING WORK DETAIL  
 REV LAC BUILDING "E"**

SCALE: NTS SHEET 3 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	163
			CONTRACT NO. 62079	
ILLINOIS FED. AID PROJECT				



NOTES:  
 1. SEE SHEET STE-06 FOR CABLE ROUTING INSIDE FOSTER COMMUNICATIONS HUT.



STE-04

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USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
	DRAWN - HAR	REVISED -
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

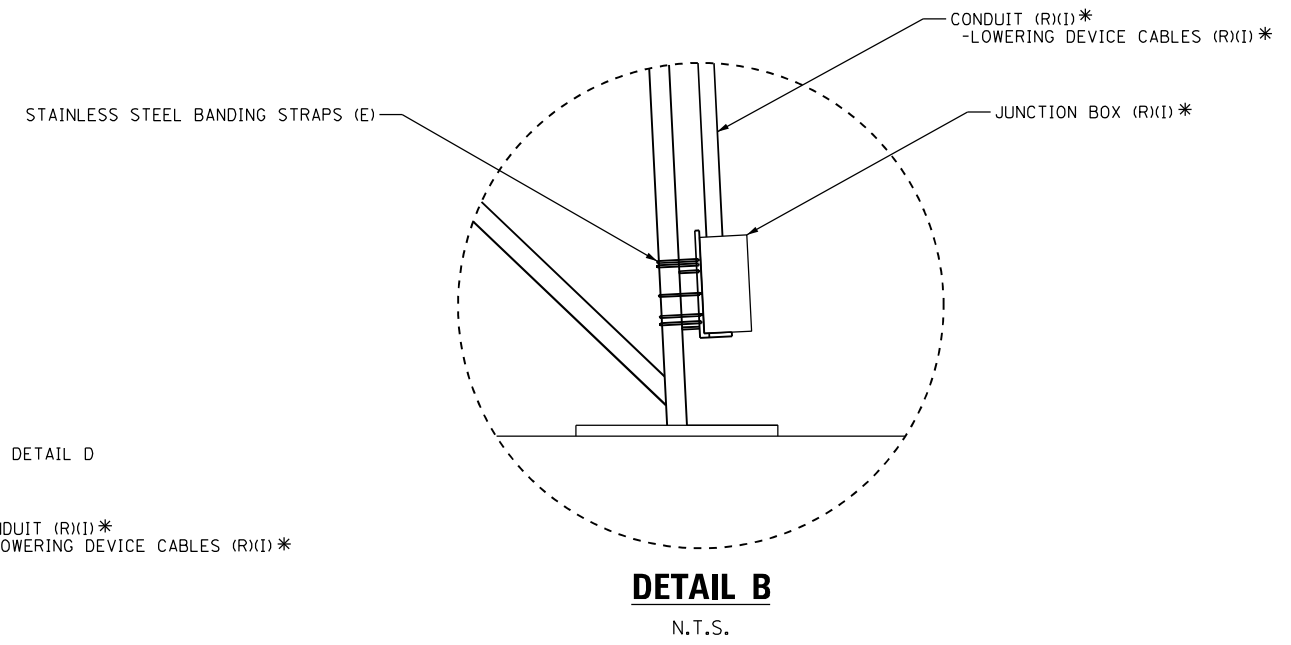
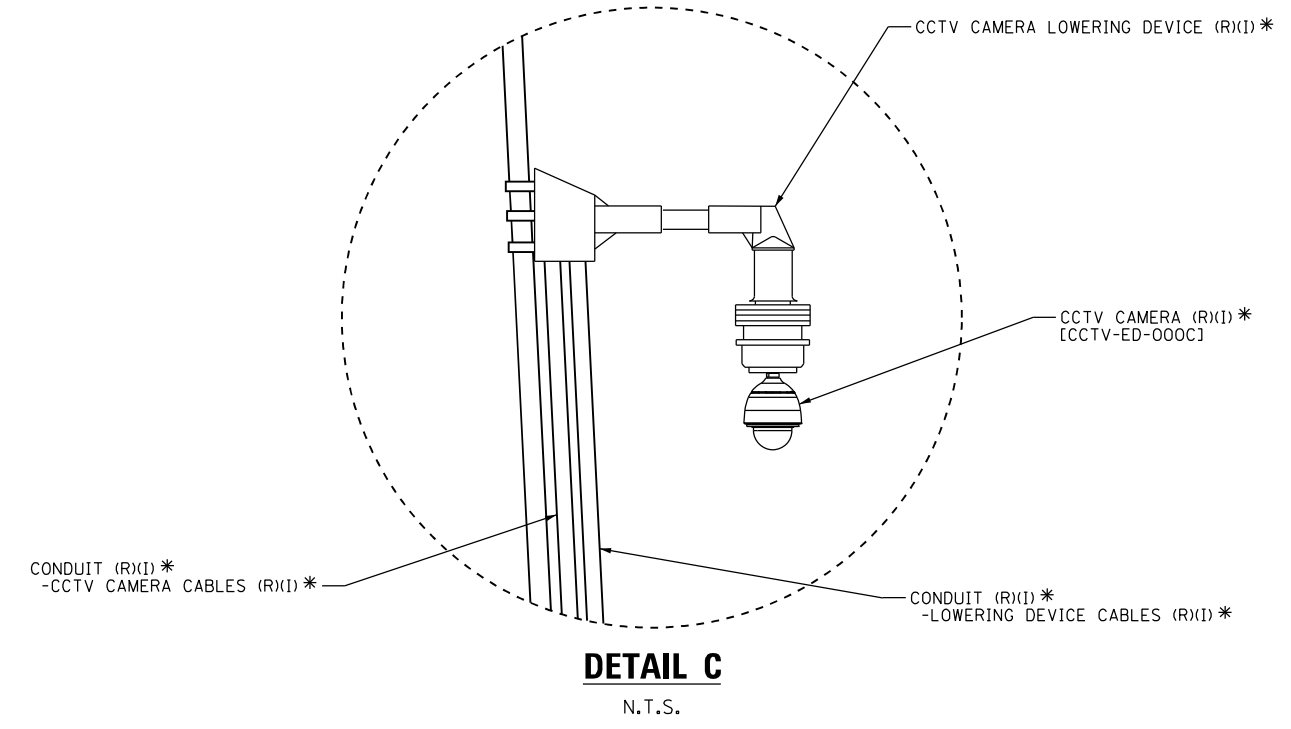
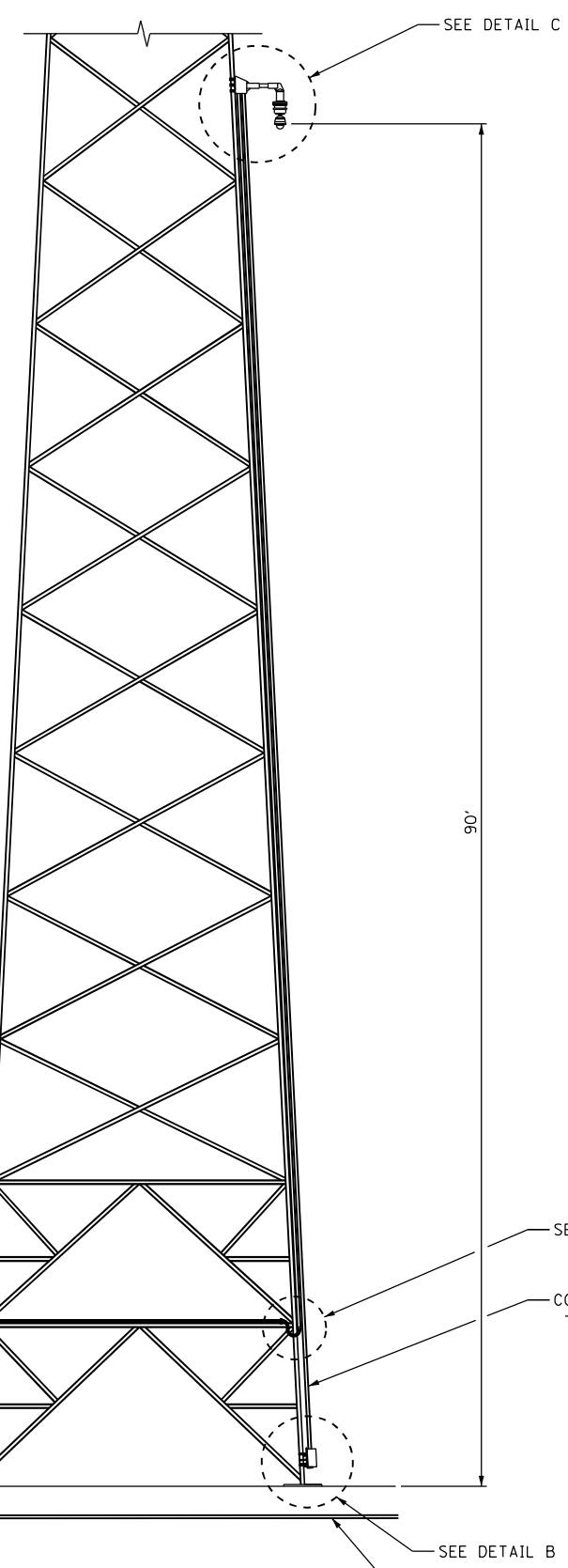
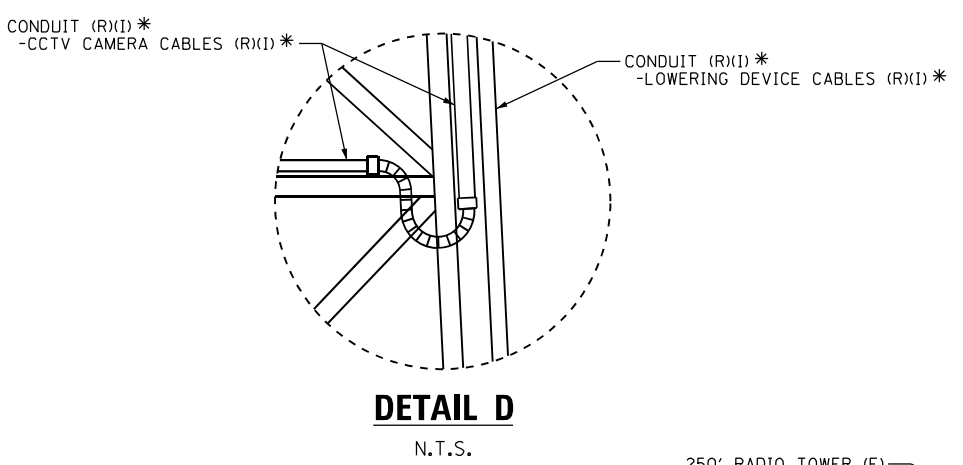
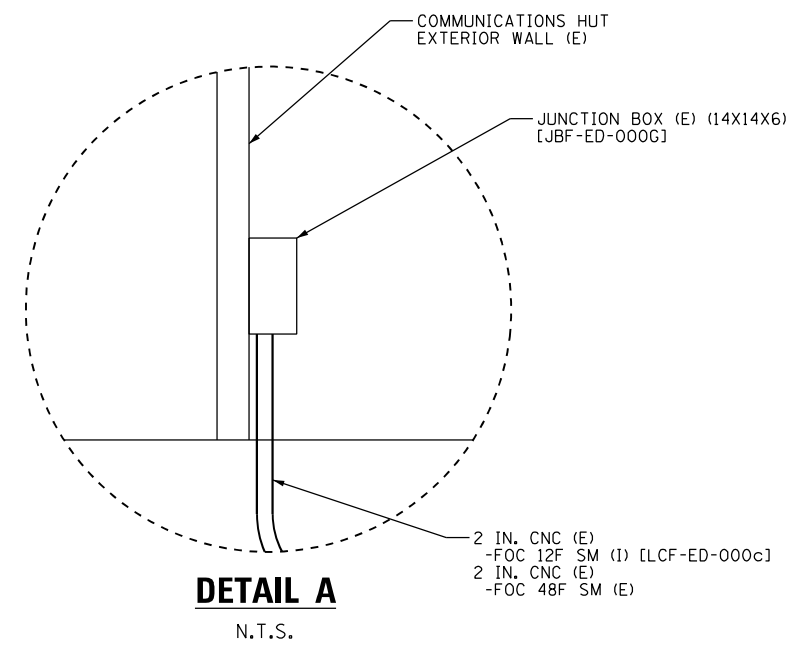
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SITE PLAN DETAIL**  
**FOSTER TOWER**

SCALE: 1" = 20' SHEET 4 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	164
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

P:\US\ASB-APP\666CS\_jacobson\Documents\C9226600\_1-94\_U.S.-41\C9226600\700\adda713\tr\62079 (Fiber)\E05\_D1P127613-sheet-Camera Tower-STE-05.dgn



2 IN. CNC (E)  
 -FOC 12F SM (I) [LCF-ED-000c]  
 2 IN. CNC (E)  
 -FOC 48F SM (E)

**NOTES:**  
 \* - DENOTES EQUIPMENT, CABLING, AND INFRASTRUCTURE THAT ARE INCLUDED IN PAY ITEM "COMMUNICATIONS HUT ELECTRICAL WORK" (X0327764).  
 1. NOT ALL TOWER MOUNTED EQUIPMENT SHOWN FOR CLARITY.  
 2. CONTRACTOR SHALL COORDINATE WITH THE DEPARTMENT PRIOR TO BEGINNING WORK.

**Jacobs**

USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

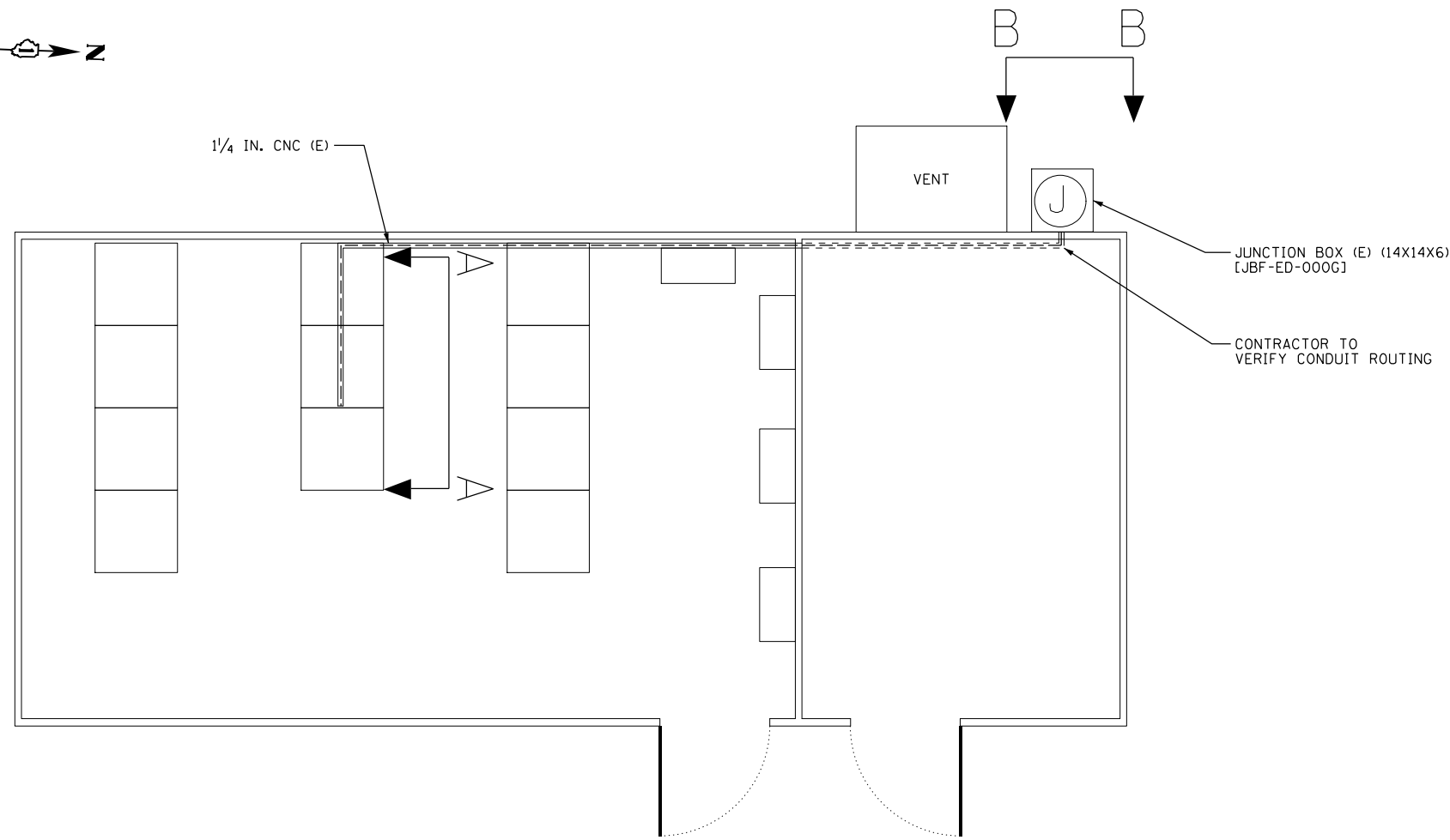
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CAMERA TOWER MODIFICATION DETAIL  
 FOSTER TOWER

SCALE: NTS SHEET 5 OF 23 SHEETS STA. TO STA.

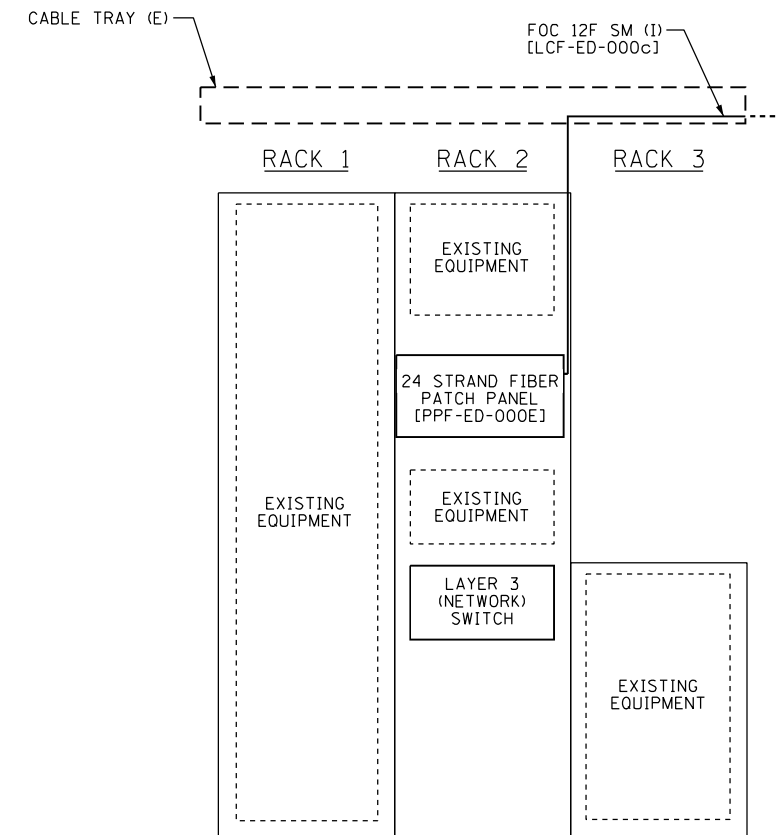
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	165
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

STE-05

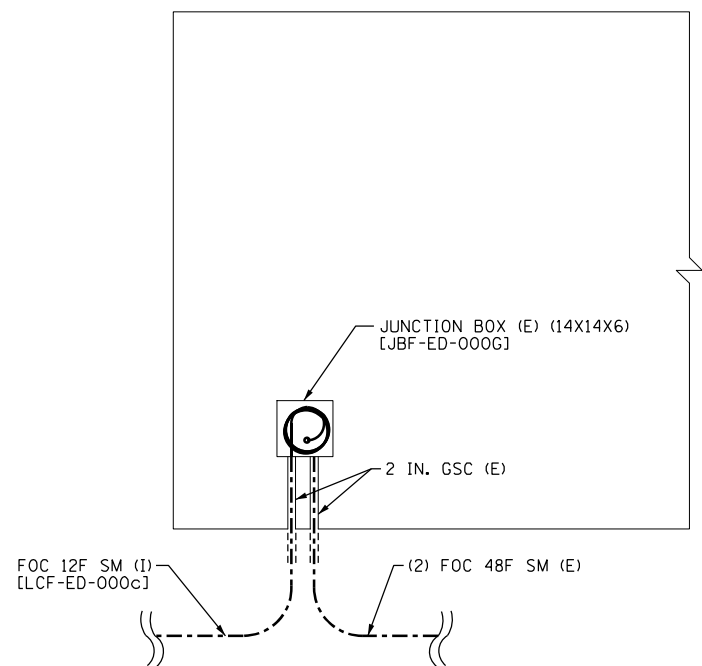


**BUILDING FLOOR PLAN**

NOTES:  
 1. INSTALL PROPOSED 12 STRAND CABLE THROUGH EXISTING CONDUIT AND EXISTING JUNCTION BOX INTO FOSTER COMMUNICATIONS BUILDING. ROUTE FIBER CABLE THROUGH EXISTING INNERDUCT AND TERMINATE INTO PROPOSED RACK-MOUNT 24F PATCH PANEL.



**SECTION A-A**



**SECTION B-B**

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USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

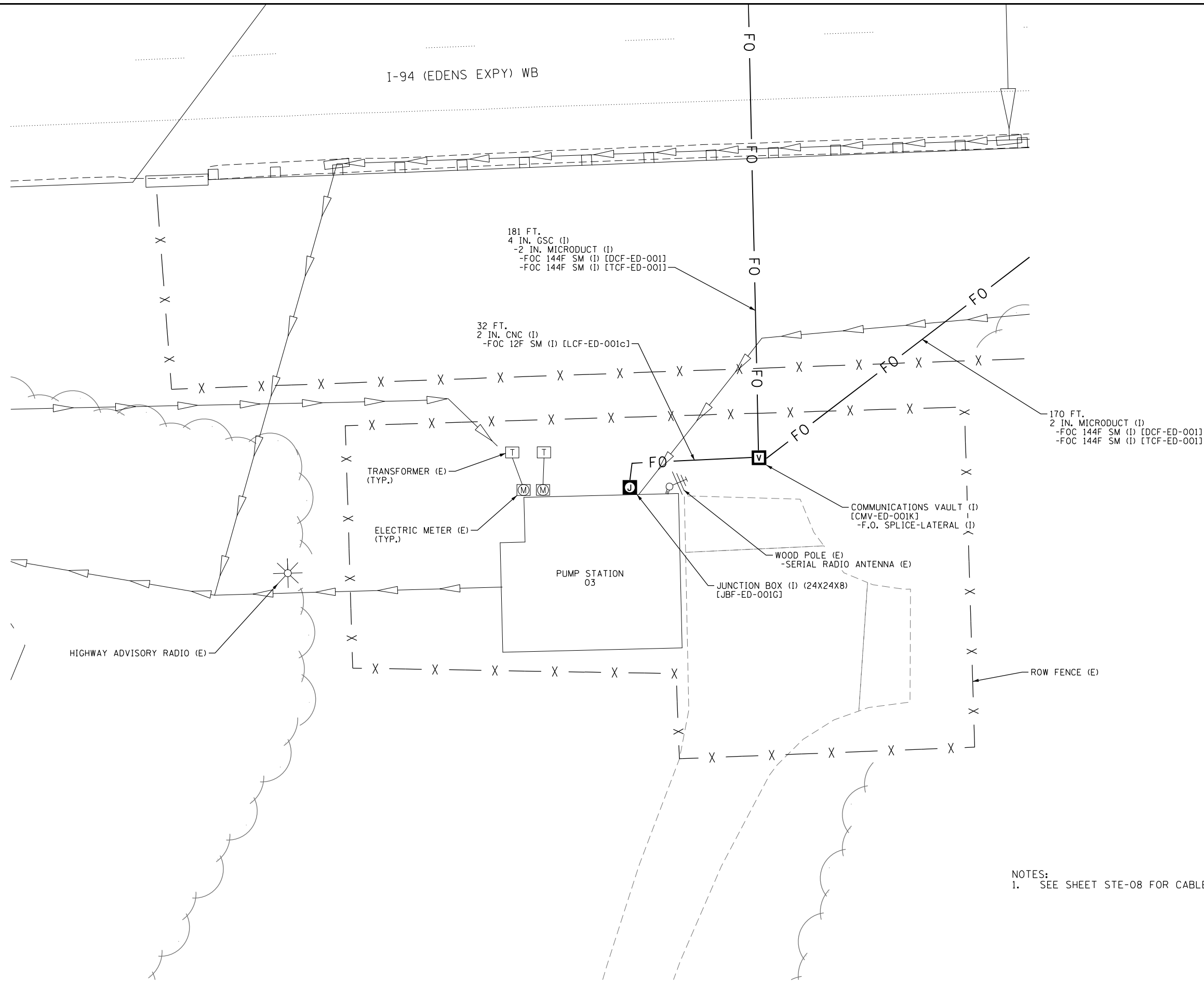
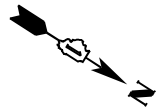
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**INTERIOR BUILDING WORK DETAIL  
 FOSTER TOWER**

SCALE: NTS SHEET 6 OF 23 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	166
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	

STE-06



NOTES:  
 1. SEE SHEET STE-08 FOR CABLE ROUTING INSIDE PUMP STATION.



STE-07

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USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
	DRAWN - HAR	REVISED -
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

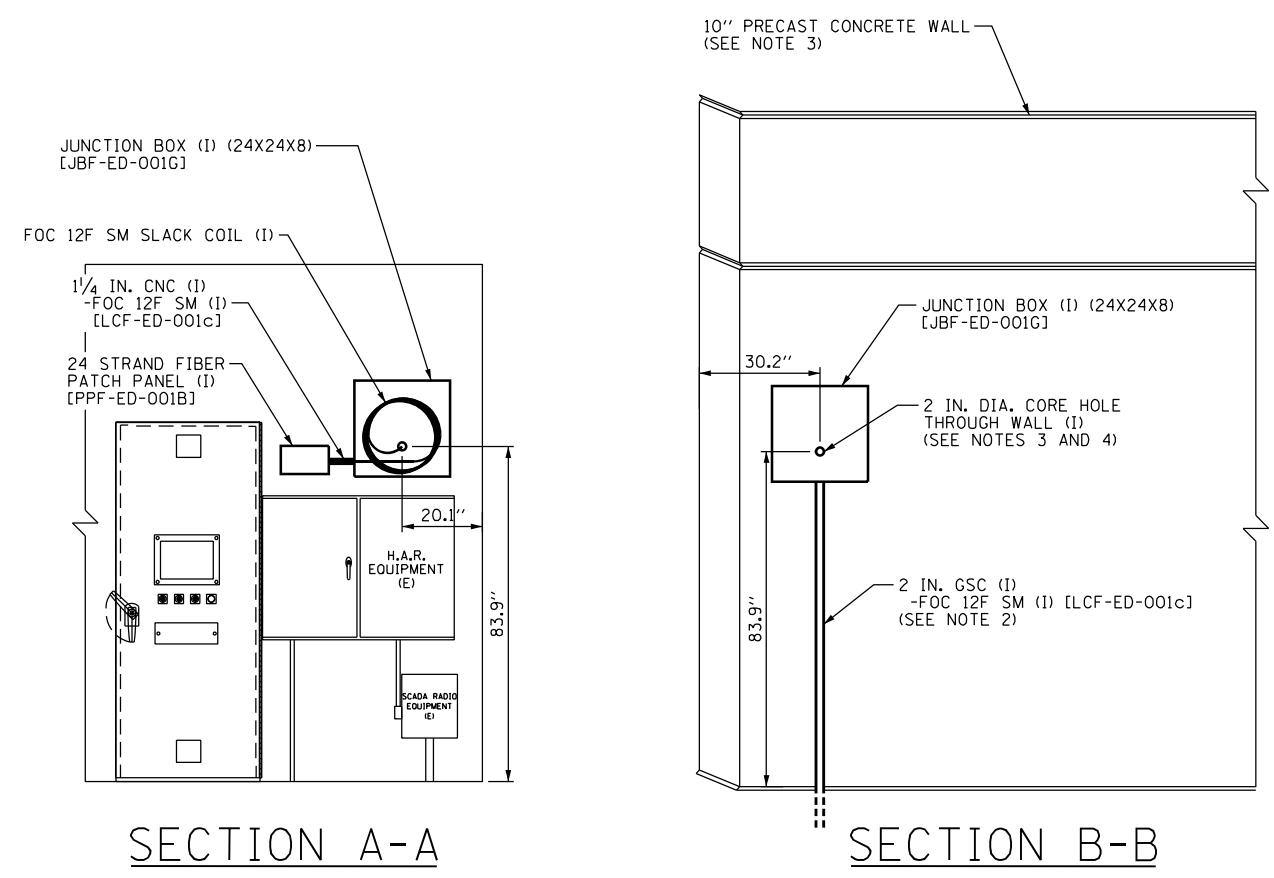
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SITE PLAN DETAIL  
 PUMP STATION NO. 3**

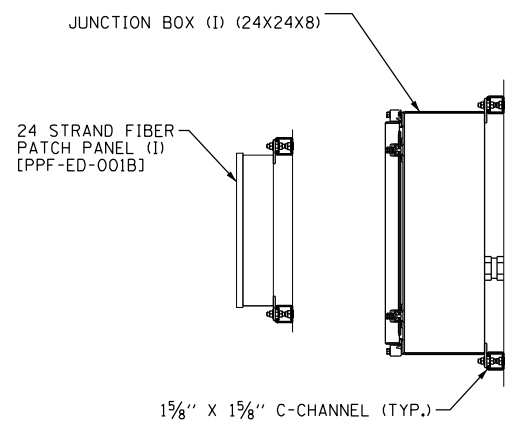
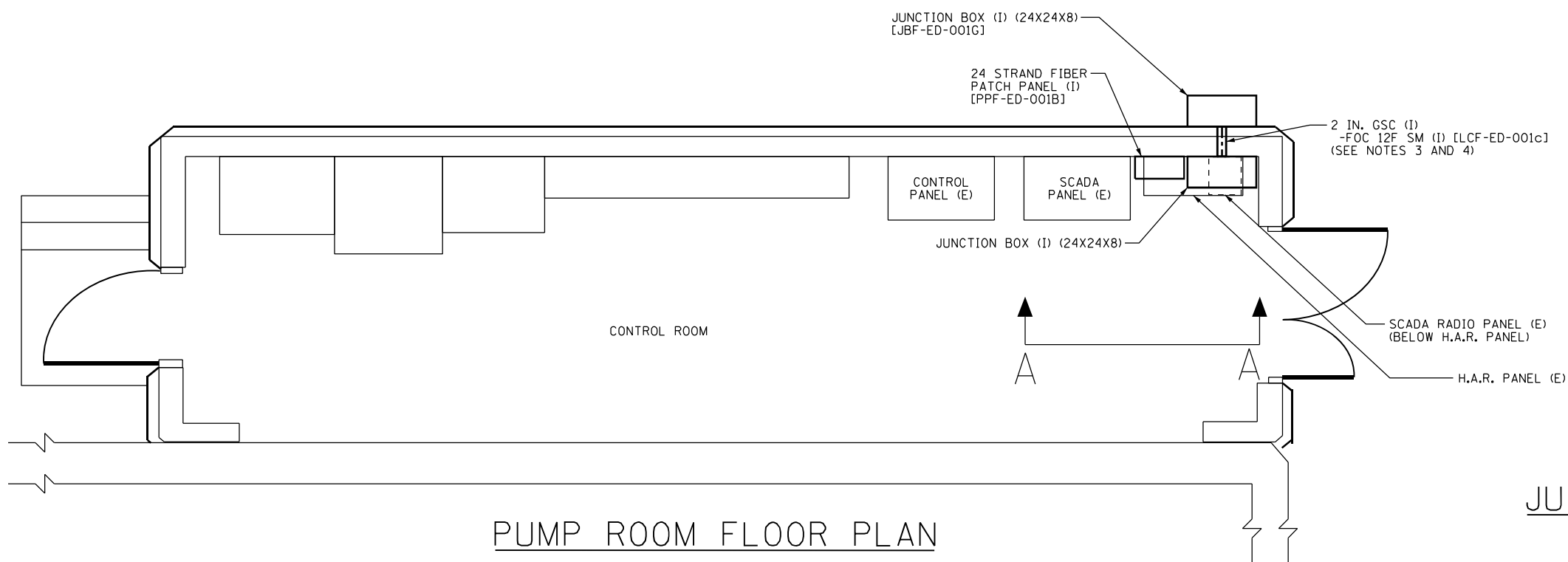
SCALE: 1" = 20' SHEET 7 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	167
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	

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- NOTES:
- ROUTE PROPOSED 12 STRAND FIBER OPTIC CABLE THROUGH PROPOSED CONDUIT AND PROPOSED EXTERIOR JUNCTION BOX. ROUTE FIBER OPTIC CABLE FROM PROPOSED EXTERIOR JUNCTION BOX INTO PROPOSED INTERIOR JUNCTION BOX. ROUTE FIBER OPTIC CABLE FROM PROPOSED INTERIOR JUNCTION BOX THROUGH PROPOSED CONDUIT AND TERMINATE INTO PROPOSED WALL-MOUNT 24F PATCH PANEL.
  - THE CONTRACTOR SHALL REPLACE ALL ASPHALT DAMAGED BY CONDUIT INSTALLATION.
  - THE CONTRACTOR SHALL VERIFY WALL THICKNESS AND MATERIALS.
  - THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE PROPOSED CORE HOLE TO ENSURE NO CONDUIT, WIRING, OR EQUIPMENT IS DAMAGED BY CORE DRILLING.

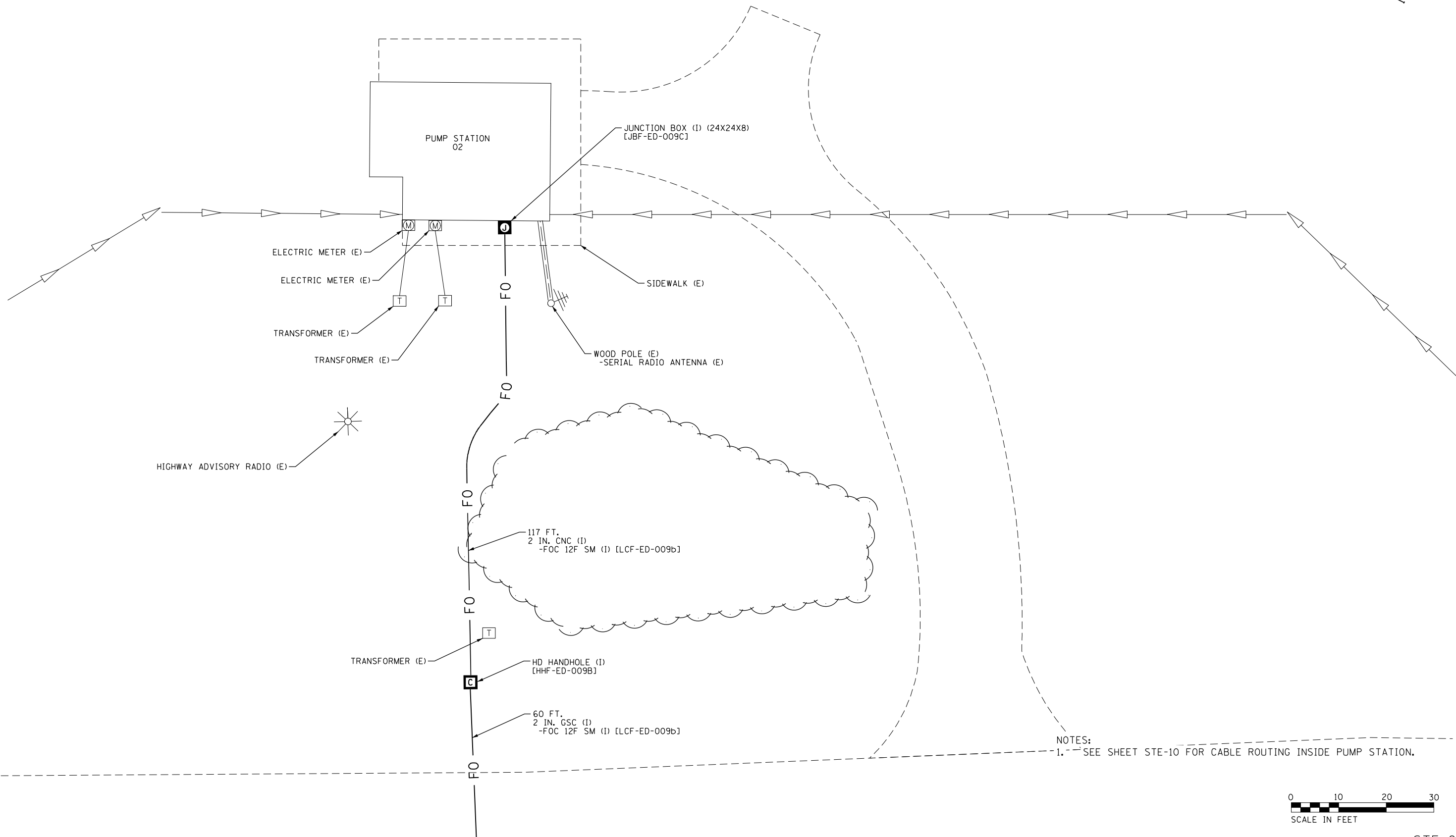


**PATCH PANEL AND INTERIOR JUNCTION BOX MOUNTING DETAILS**

STE-08

	USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERIOR BUILDING WORK DETAIL PUMP STATION NO. 3	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN - HAR	REVISED -			94	2016-068I	COOK/LAKE	388	168
	PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -			CONTRACT NO. 62079				
				SCALE: NTS SHEET 8 OF 23 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT				





NOTES:  
 1. SEE SHEET STE-10 FOR CABLE ROUTING INSIDE PUMP STATION.



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USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
	DRAWN - HAR	REVISED -
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

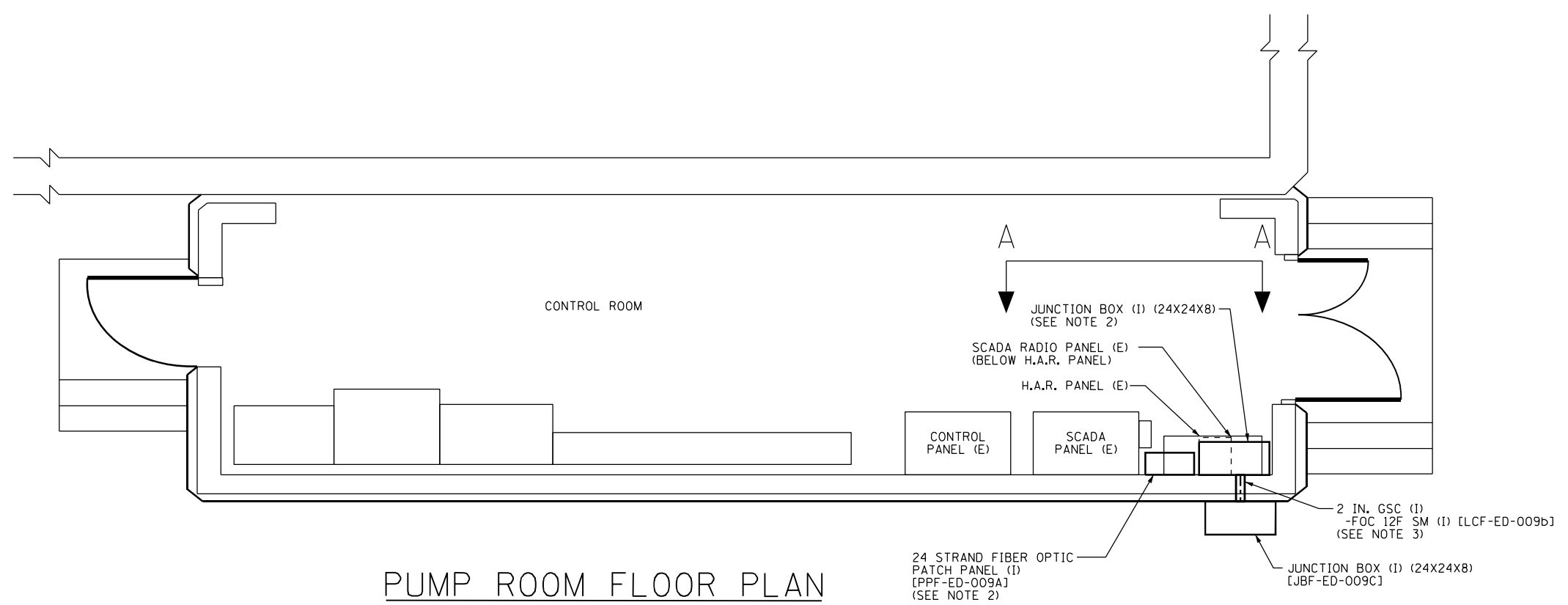
**SITE PLAN DETAIL  
 PUMP STATION NO. 2**

SCALE: 1" = 20' SHEET 9 OF 23 SHEETS STA. TO STA.

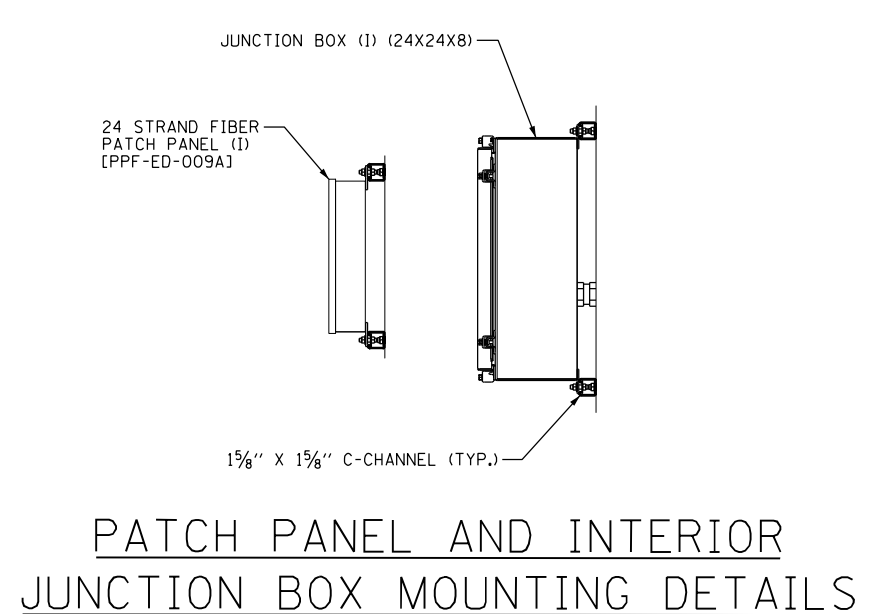
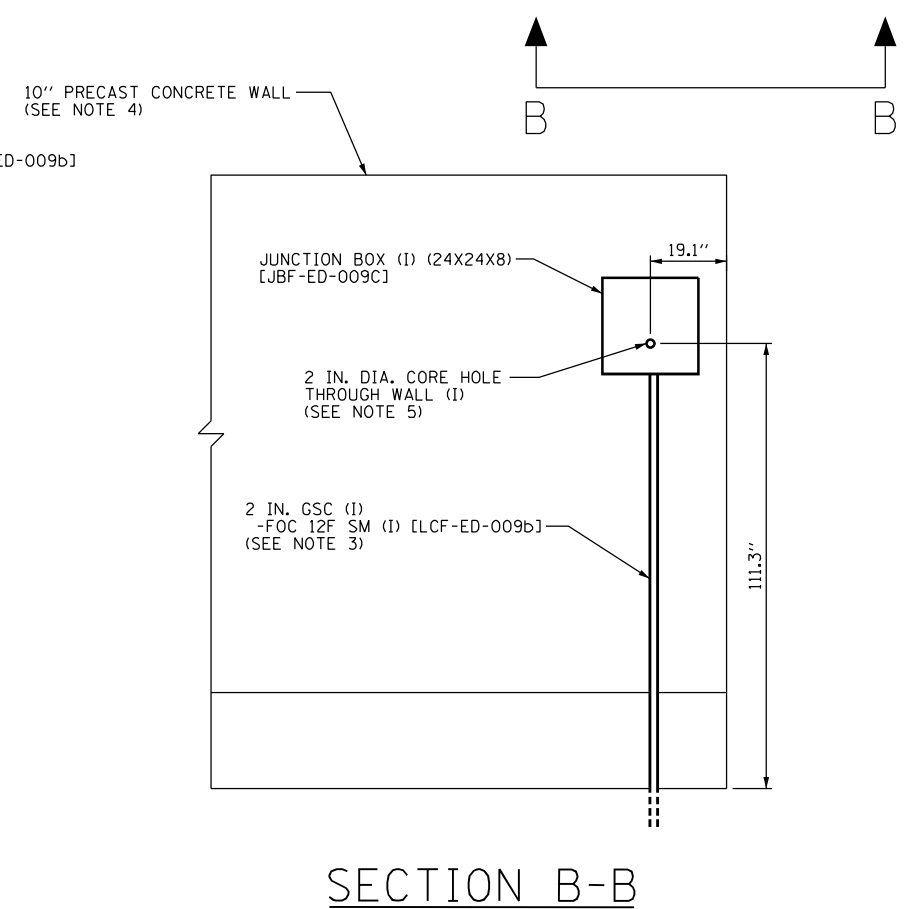
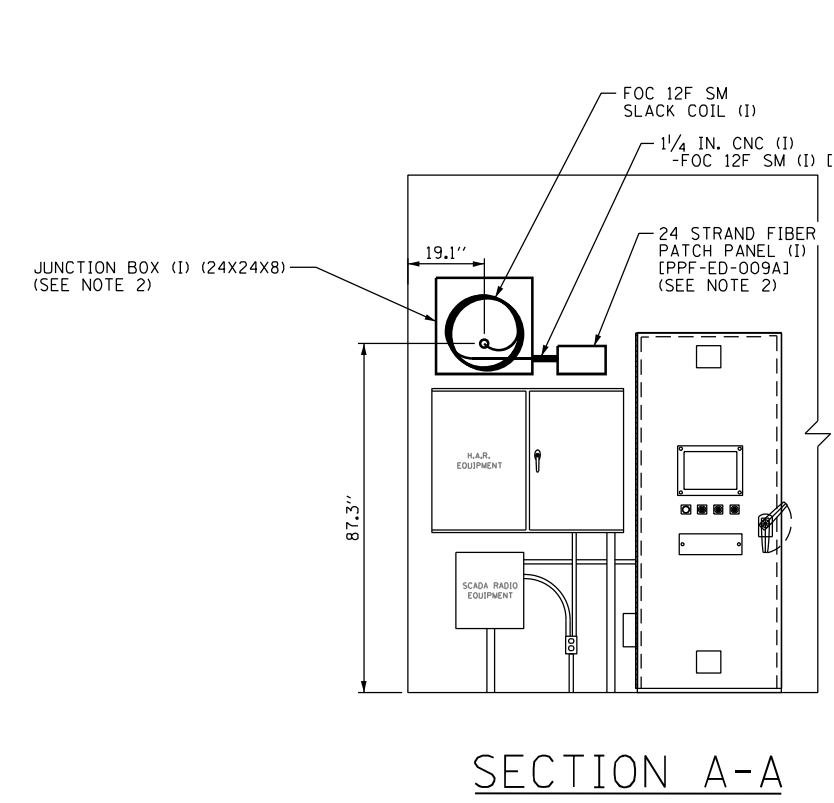
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	169
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

STE-09

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- NOTES:**
- ROUTE PROPOSED 12 STRAND FIBER OPTIC CABLE THROUGH PROPOSED CONDUIT AND PROPOSED EXTERIOR JUNCTION BOX. ROUTE FIBER OPTIC CABLE FROM PROPOSED EXTERIOR JUNCTION BOX INTO PROPOSED INTERIOR JUNCTION BOX. ROUTE FIBER OPTIC CABLE FROM PROPOSED INTERIOR JUNCTION BOX THROUGH PROPOSED INNERDUCT AND TERMINATE INTO PROPOSED WALL-MOUNT 24F PATCH PANEL.
  - THE CONTRACTOR SHALL MOUNT THE INTERIOR JUNCTION BOX OR PATCH PANEL USING C-CHANNEL AS SHOWN IN THE MOUNTING DETAIL.
  - THE CONTRACTOR SHALL REPAIR ALL CONCRETE, ASPHALT, OR ANY OTHER MATERIAL DAMAGED OR REMOVED DURING CONDUIT INSTALLATION.
  - THE CONTRACTOR SHALL VERIFY WALL THICKNESS AND MATERIALS.
  - THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE PROPOSED CORE HOLE TO ENSURE NO CONDUIT, WIRING, OR EQUIPMENT IS DAMAGED BY CORE DRILLING.



USER NAME = zvojanjj	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

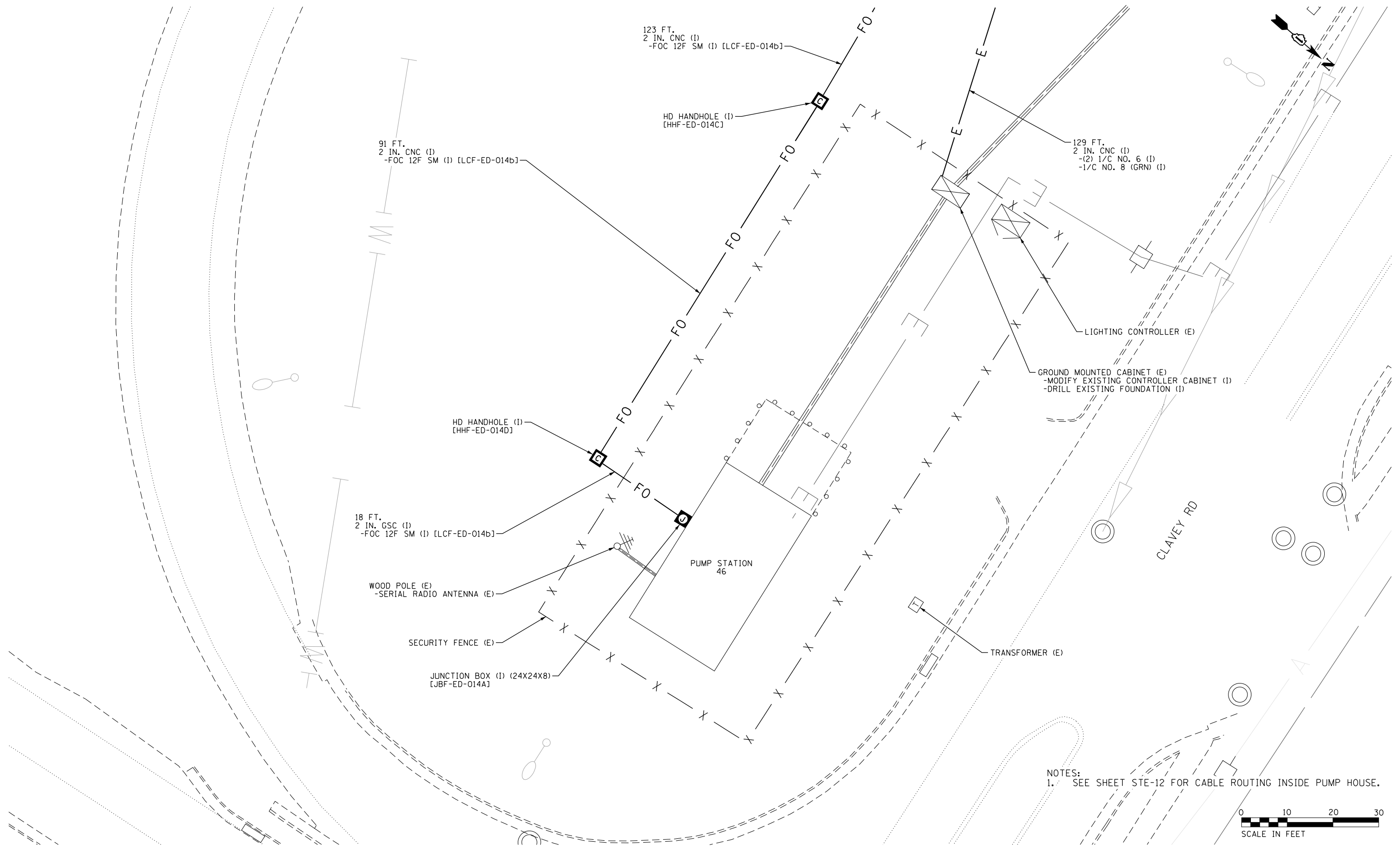
**INTERIOR BUILDING WORK DETAIL  
PUMP STATION NO. 2**

SCALE: NTS     SHEET 10 OF 23 SHEETS STA.     TO STA.

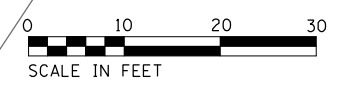
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0681	COOK/LAKE	388	170
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	

STE-10

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NOTES:  
 1. SEE SHEET STE-12 FOR CABLE ROUTING INSIDE PUMP HOUSE.



STE-11



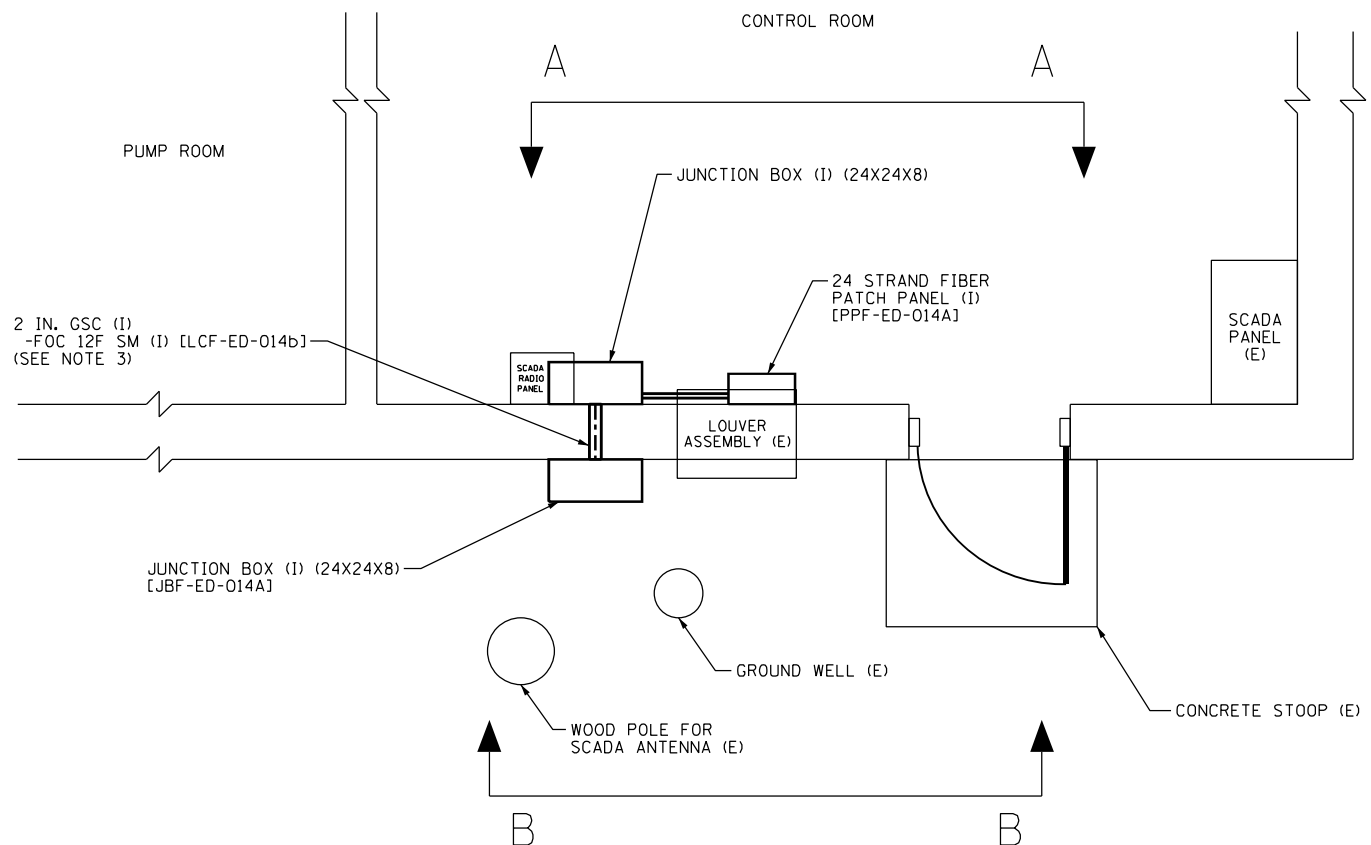
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PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

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

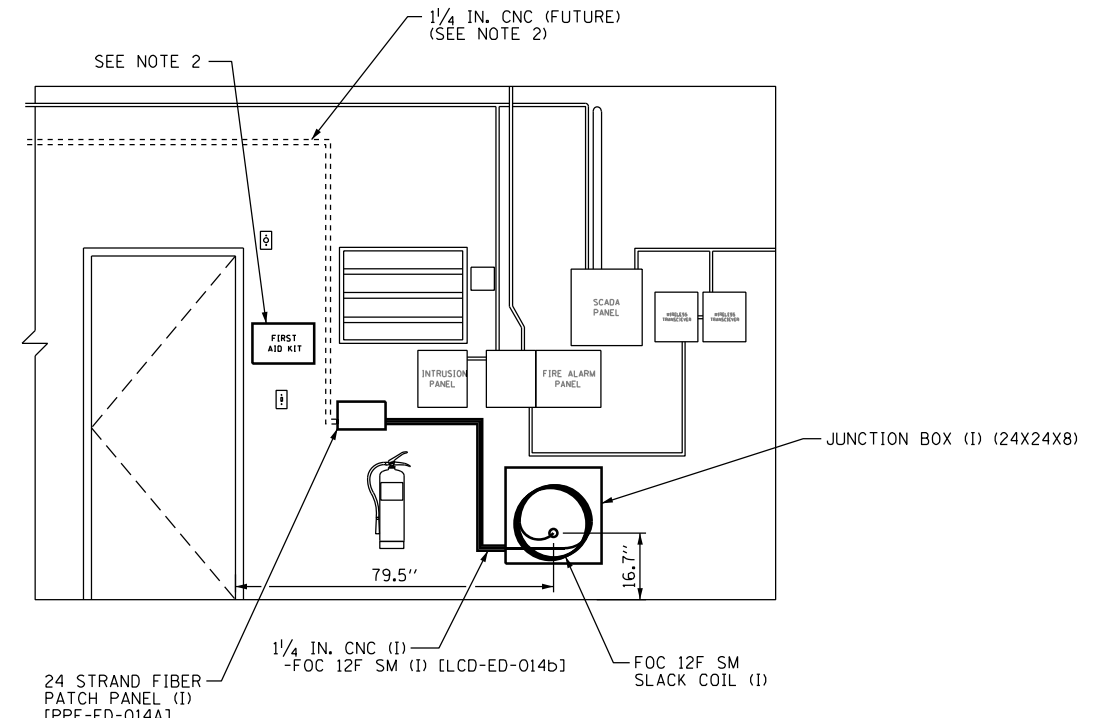
**SITE PLAN DETAIL**  
**PUMP STATION NO. 46**

SCALE: 1" = 20' SHEET 11 OF 23 SHEETS STA. TO STA.

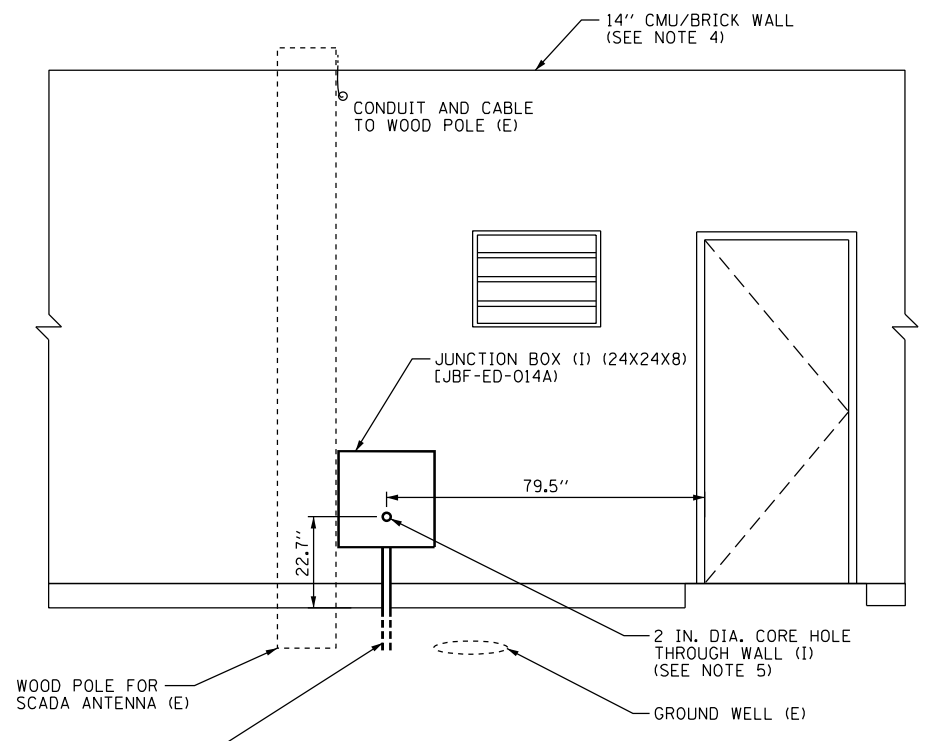
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	171
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				



BUILDING FLOOR PLAN



SECTION A-A



SECTION B-B

- NOTES:
- ROUTE PROPOSED 12 STRAND FIBER OPTIC CABLE THROUGH PROPOSED CONDUIT AND PROPOSED EXTERIOR JUNCTION BOX. ROUTE FIBER OPTIC CABLE FROM PROPOSED EXTERIOR JUNCTION BOX INTO PROPOSED INTERIOR JUNCTION BOX. ROUTE FIBER OPTIC CABLE FROM PROPOSED INTERIOR JUNCTION BOX THROUGH PROPOSED INNERDUCT AND TERMINATE INTO PROPOSED WALL-MOUNT 24F PATCH PANEL.
  - THE CONTRACTOR SHALL RELOCATE THE EXISTING FIRST AID KIT TO THE LOCATION SHOWN. PLACEMENT OF THE FIRST AID KIT SHALL BE SUCH THAT THERE REMAINS SUFFICIENT ROOM BETWEEN THE FIRST AID KIT AND LOUVER ASSEMBLY TO ROUTE A FUTURE CONDUIT FROM THE PROPOSED FIBER OPTIC PATCH PANEL TO THE SCADA PANEL.
  - THE CONTRACTOR SHALL REPLACE ALL ASPHALT DAMAGED BY CONDUIT INSTALLATION.
  - THE CONTRACTOR SHALL VERIFY WALL THICKNESS AND MATERIALS.
  - THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE PROPOSED CORE HOLE TO ENSURE NO CONDUIT, WIRING, OR EQUIPMENT IS DAMAGED BY CORE DRILLING.

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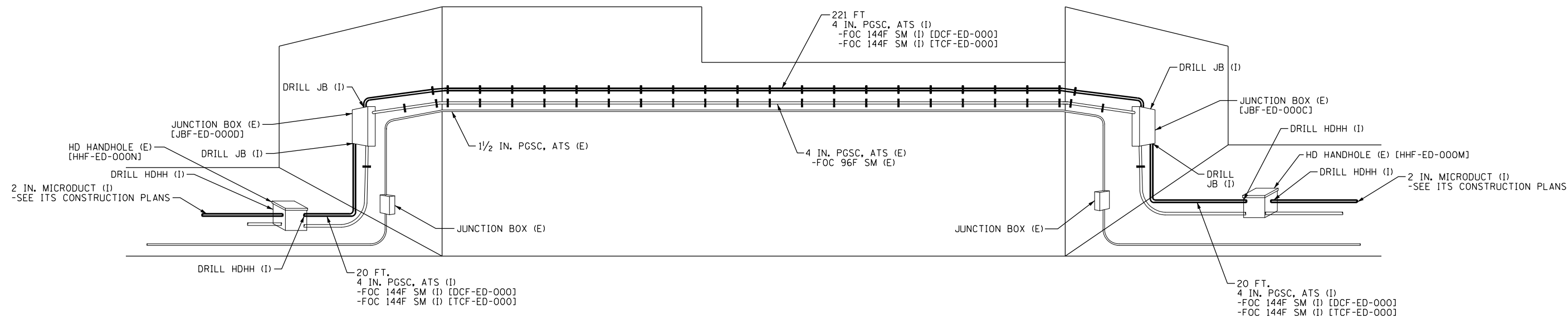
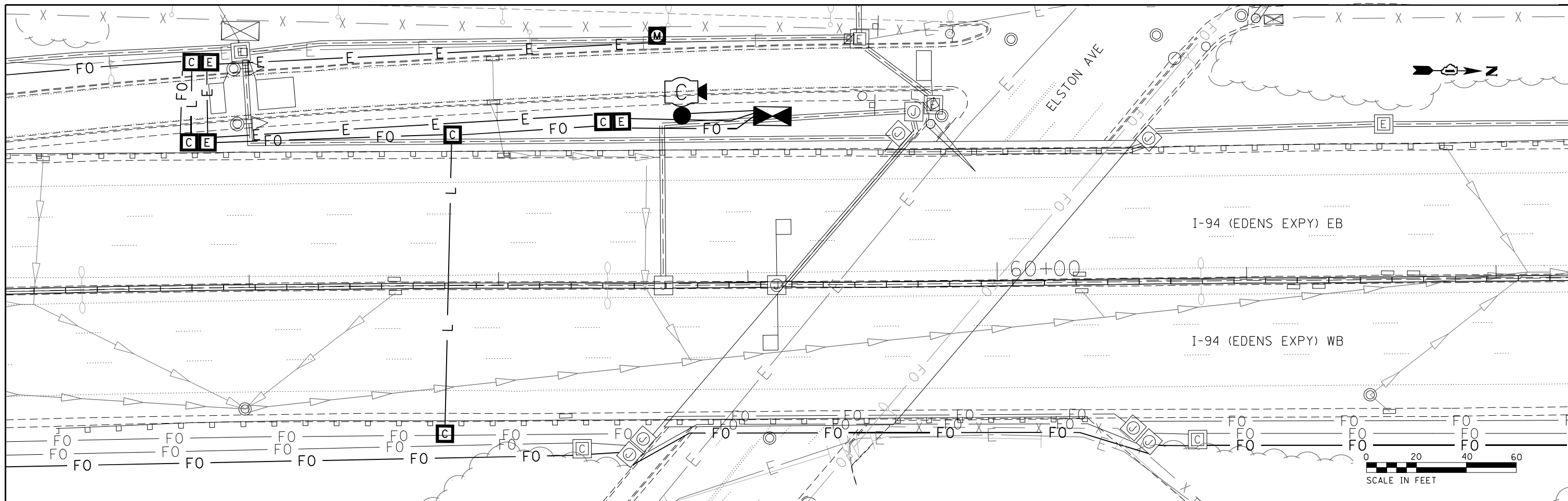
USER NAME = zvoianjj	DESIGNED - JJZ	REVISED -
DRAWN - HAR	REVISED -	
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INTERIOR BUILDING WORK DETAIL  
PUMP STATION NO. 46

SCALE: NTS SHEET 12 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	172
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	



PROFILE VIEW - LOOKING EAST  
NOT TO SCALE

NOTES:  
1. ALL QUANTITIES SHOWN ON THIS SHEET ARE ACCOUNTED FOR ON THE ITS CONSTRUCTION PLANS.

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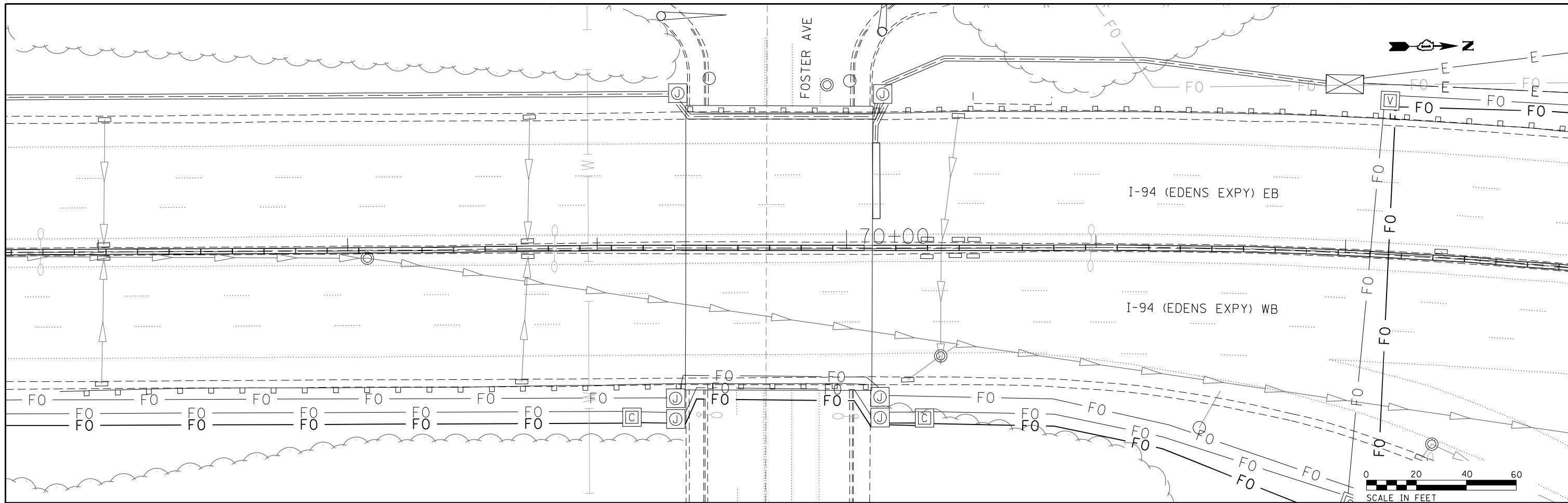
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PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

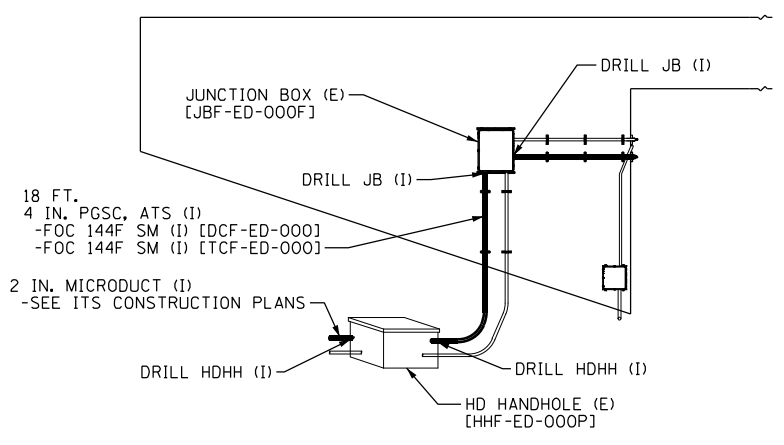
CONDUIT ATTACHED TO STRUCTURE DETAIL  
I-94 AT ELSTON AVENUE OVERPASS  
SCALE: NTS SHEET 13 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0681	COOK/LAKE	388	173
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

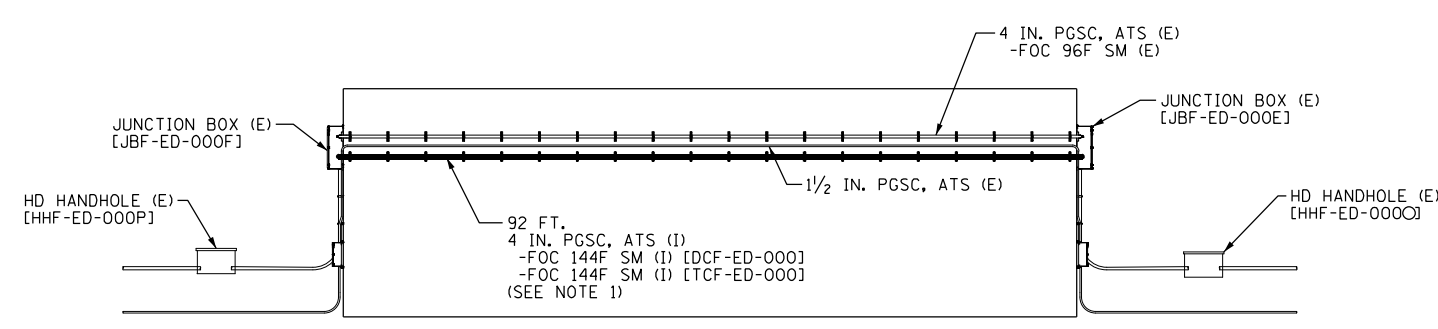
STE-13



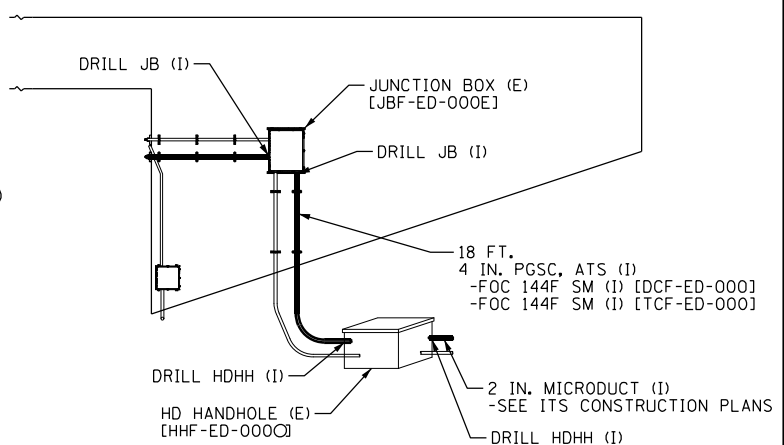
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PROFILE VIEW - LOOKING SOUTH  
NOT TO SCALE



PROFILE VIEW - LOOKING EAST  
NOT TO SCALE



PROFILE VIEW - LOOKING NORTH  
NOT TO SCALE

- NOTES:
1. RELOCATE EXISTING UNDERPASS LIGHTING IDENTIFICATION BRACKETS AS REQUIRED TO ACCOMODATE CONDUIT INSTALLATION.
  2. ALL QUANTITIES SHOWN ON THIS SHEET ARE ACCOUNTED FOR ON THE ITS CONSTRUCTION PLANS.



USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

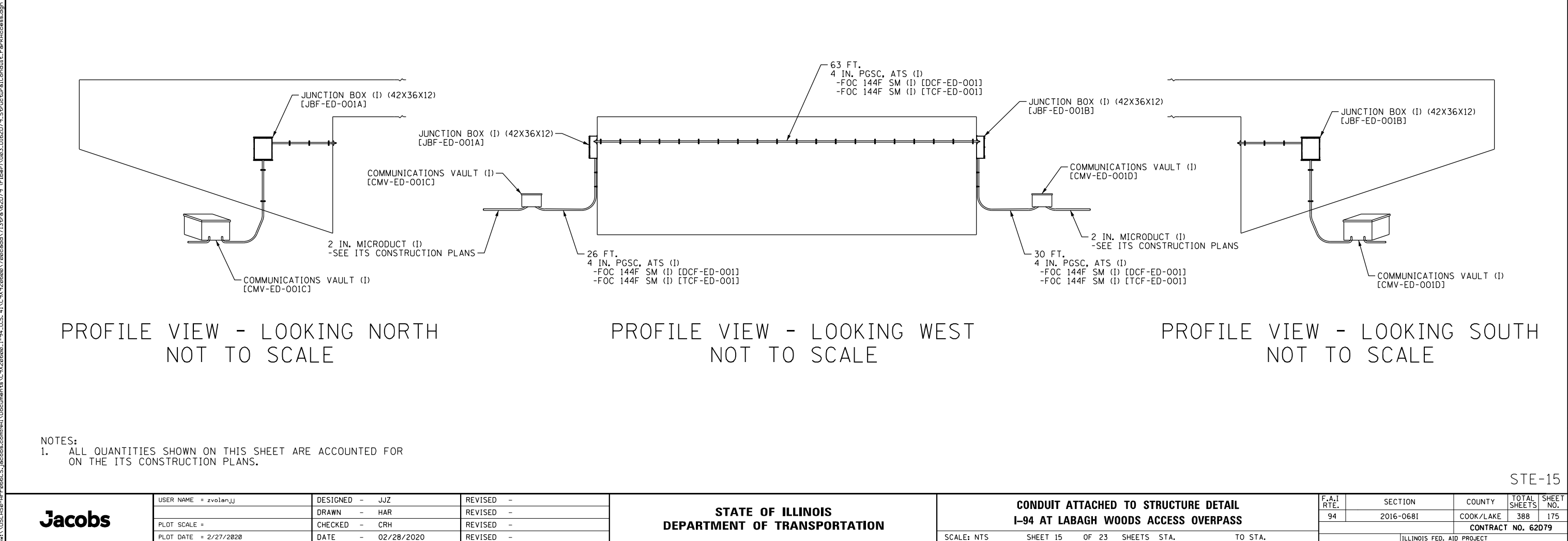
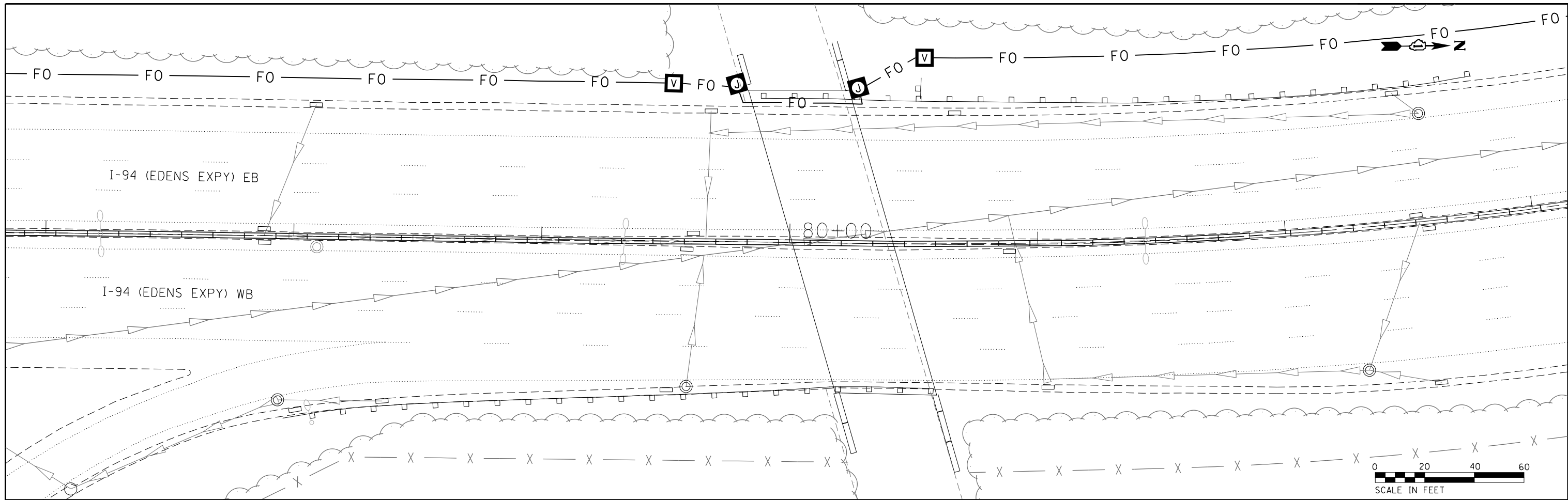
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

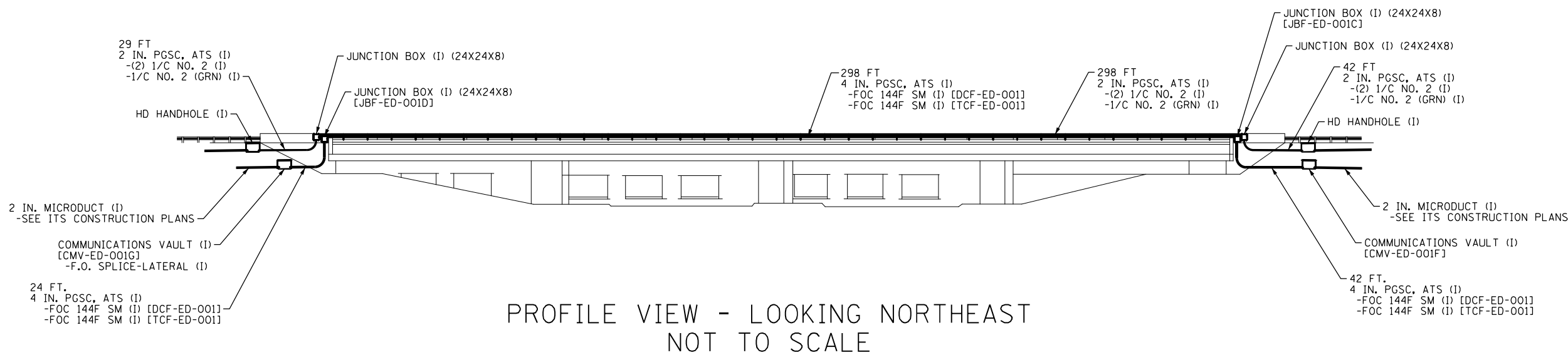
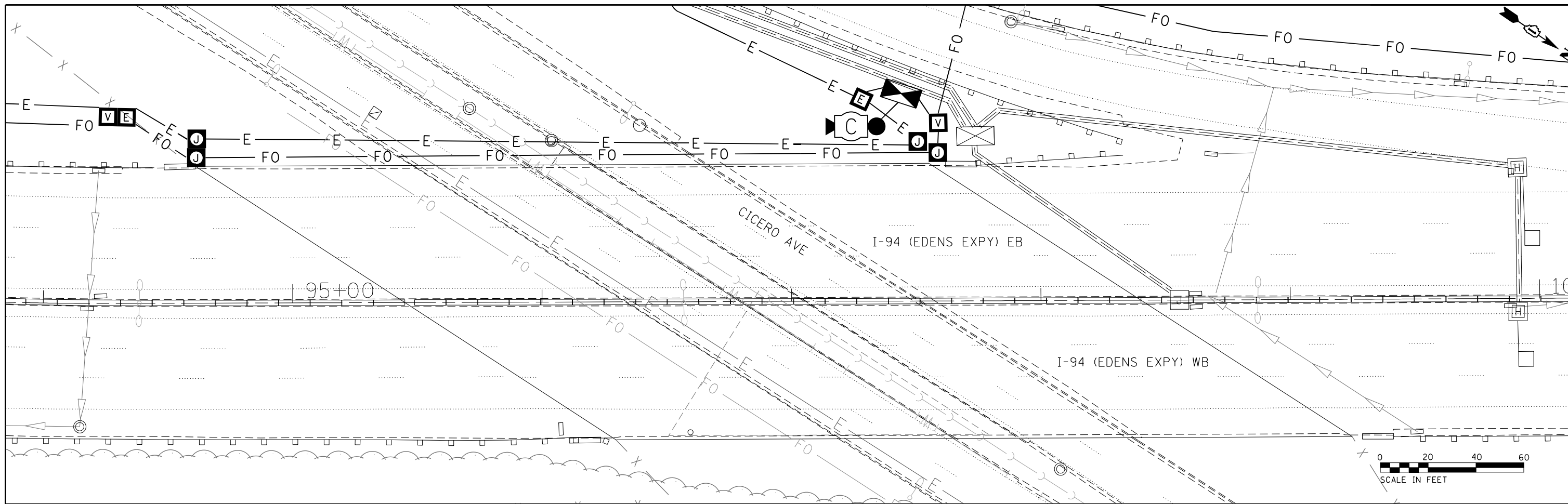
CONDUIT ATTACHED TO STRUCTURE DETAIL  
I-94 AT FOSTER AVENUE OVERPASS

SCALE: NTS SHEET 14 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	174
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

STE-14





PROFILE VIEW - LOOKING NORTHEAST  
NOT TO SCALE

NOTES:  
1. ALL QUANTITIES SHOWN ON THIS SHEET ARE ACCOUNTED FOR ON THE ITS CONSTRUCTION PLANS.

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**Jacobs**

USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

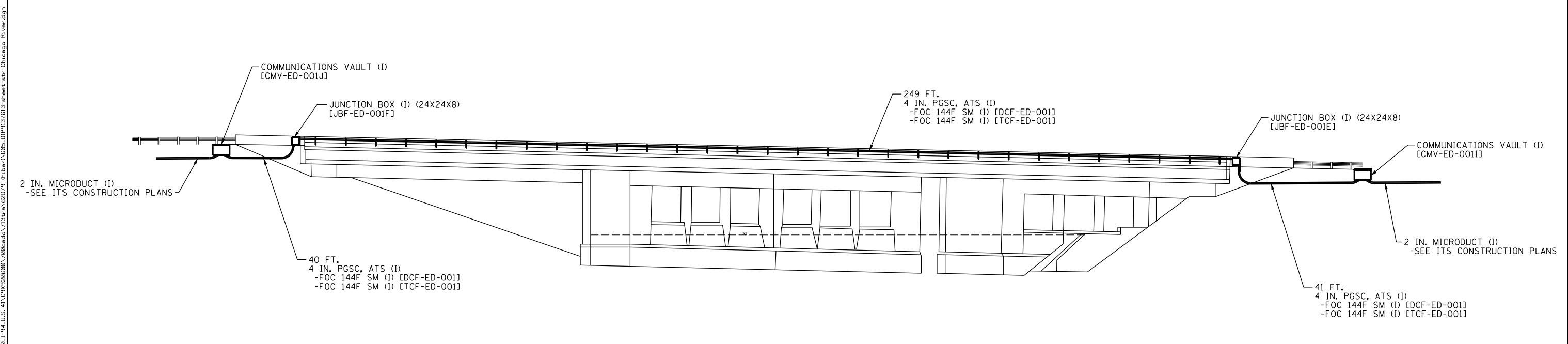
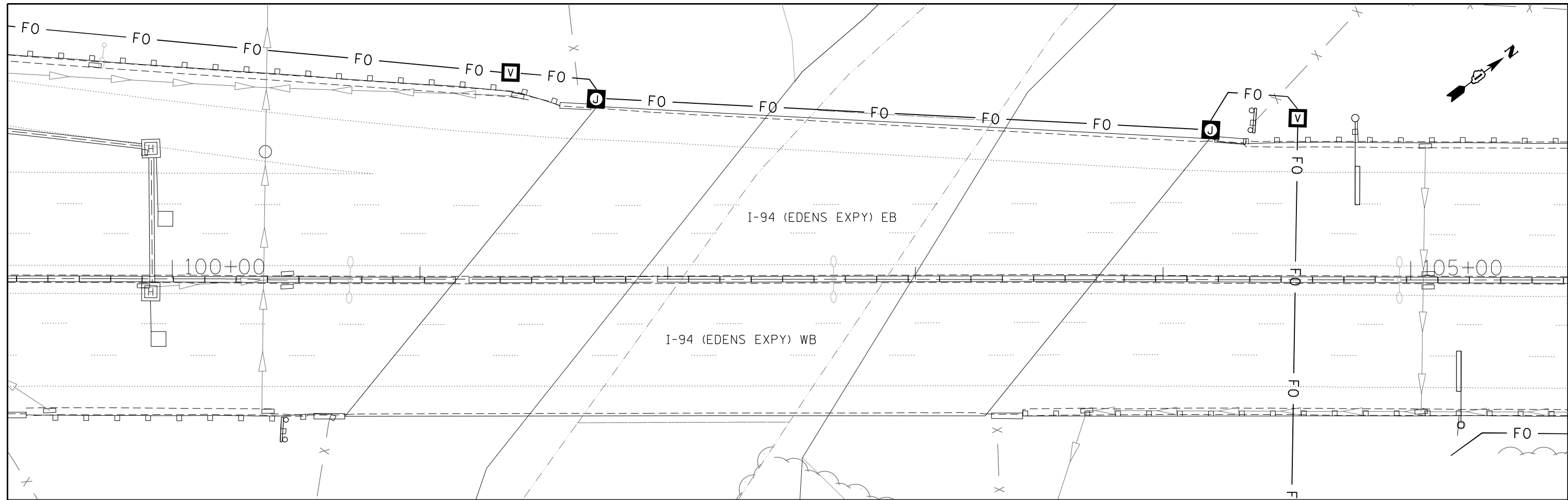
CONDUIT ATTACHED TO STRUCTURE DETAIL  
I-94 BRIDGE OVER CICERO AVENUE

SCALE: NTS SHEET 16 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	176
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

STE-16





PROFILE VIEW - LOOKING NORTHEAST  
NOT TO SCALE

NOTES:  
1. ALL QUANTITIES SHOWN ON THIS SHEET ARE ACCOUNTED FOR ON THE ITS CONSTRUCTION PLANS.



STE-17

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**Jacobs**

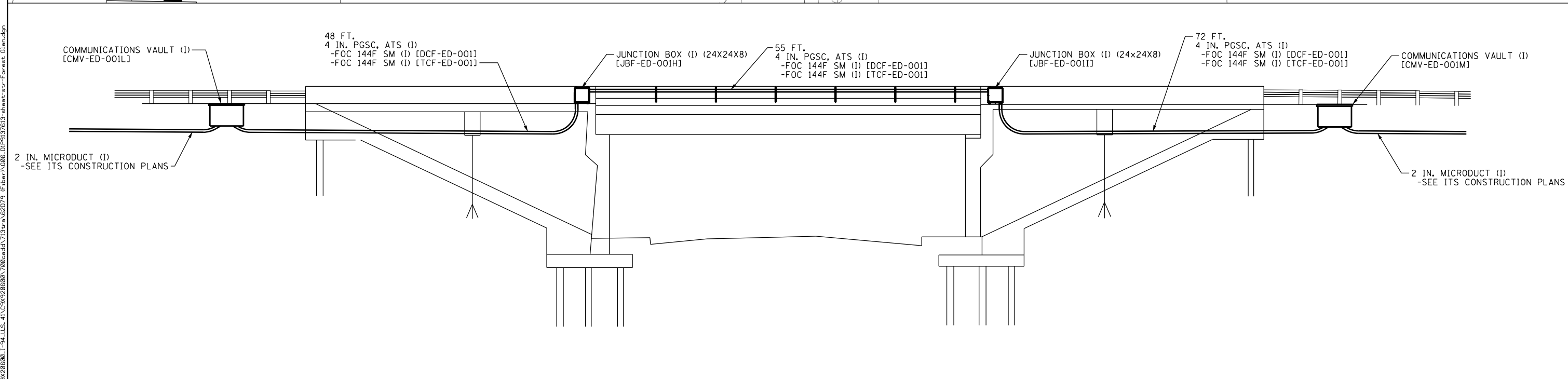
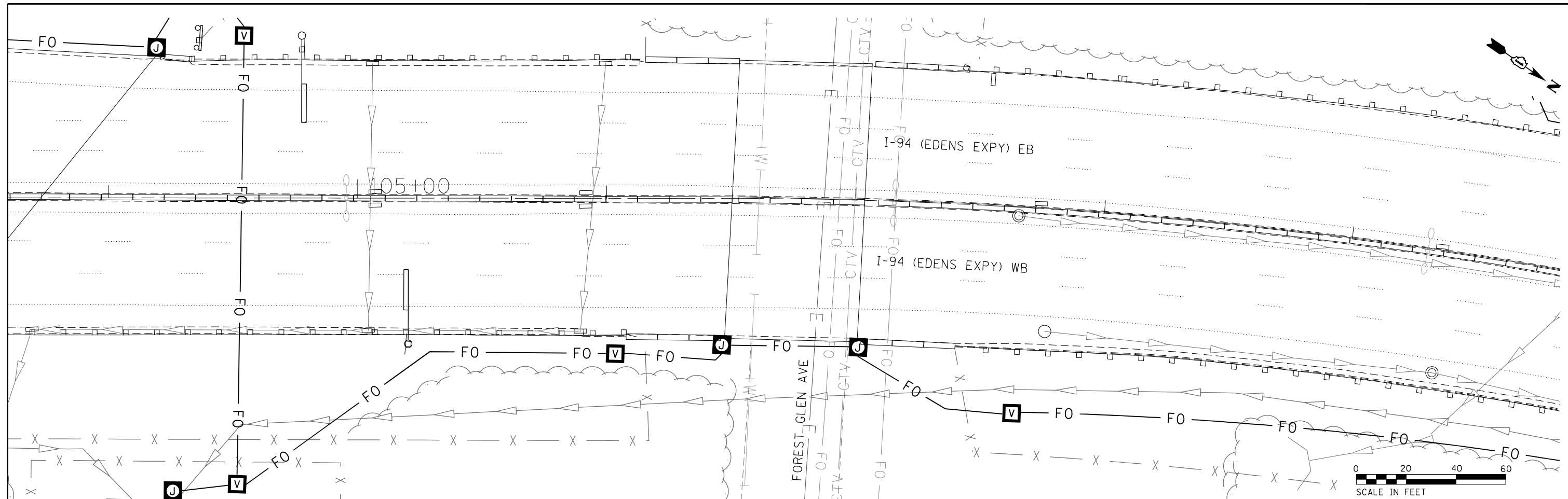
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PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 7/20/2021	CHECKED - CRH	REVISED -
	DATE - 05/03/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**NORTH BRANCH CHICAGO RIVER CROSSING**

SCALE: NTS SHEET 17 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-06BI	COOK/LAKE	391	177
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				



PROFILE VIEW - LOOKING SOUTHWEST  
NOT TO SCALE

NOTES:  
1. ALL QUANTITIES SHOWN ON THIS SHEET ARE ACCOUNTED FOR ON THE ITS CONSTRUCTION PLANS.

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USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
	DRAWN - HAR	REVISED -
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

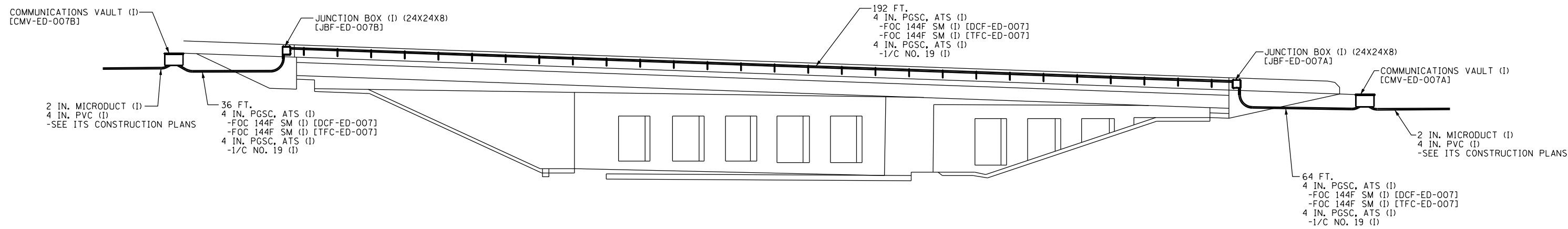
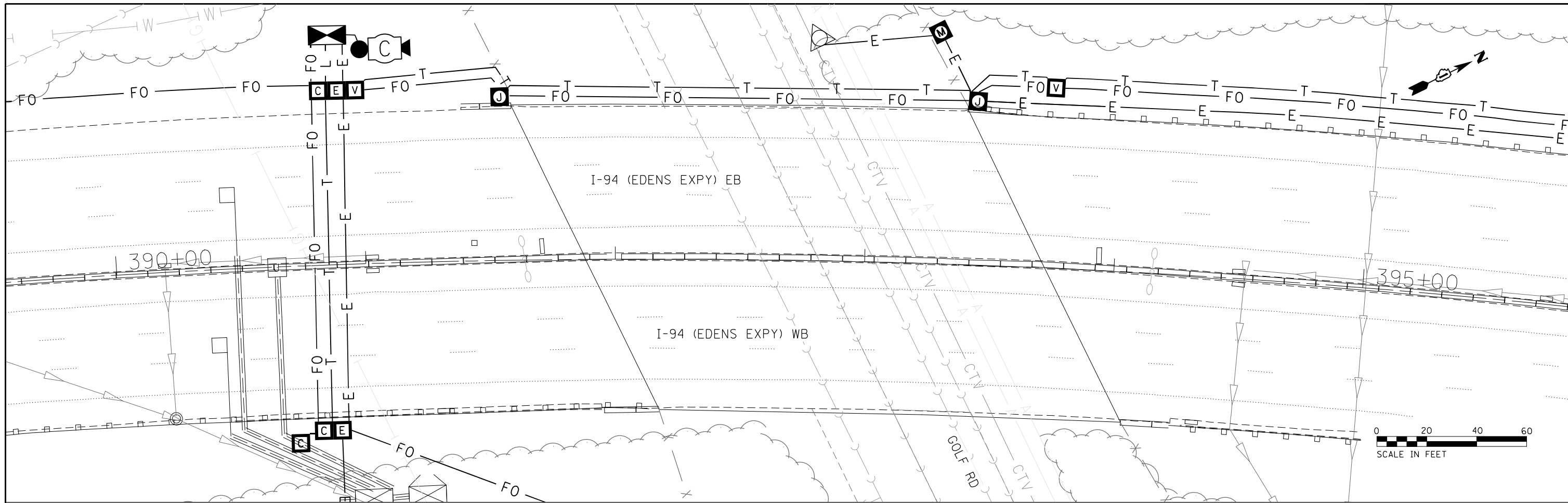
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONDUIT ATTACHED TO STRUCTURE DETAIL  
I-94 BRIDGE OVERFOREST GLEN AVENUE

SCALE: NTS SHEET 18 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	178
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

STE-18



PROFILE VIEW - LOOKING EAST  
NOT TO SCALE

NOTES:  
1. ALL QUANTITIES SHOWN ON THIS SHEET ARE ACCOUNTED FOR ON THE ITS CONSTRUCTION PLANS.

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**Jacobs**

USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

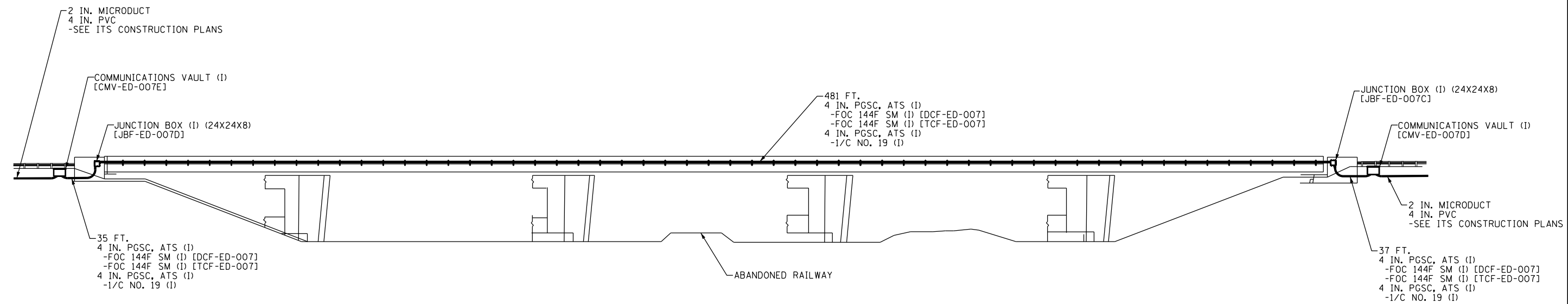
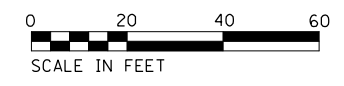
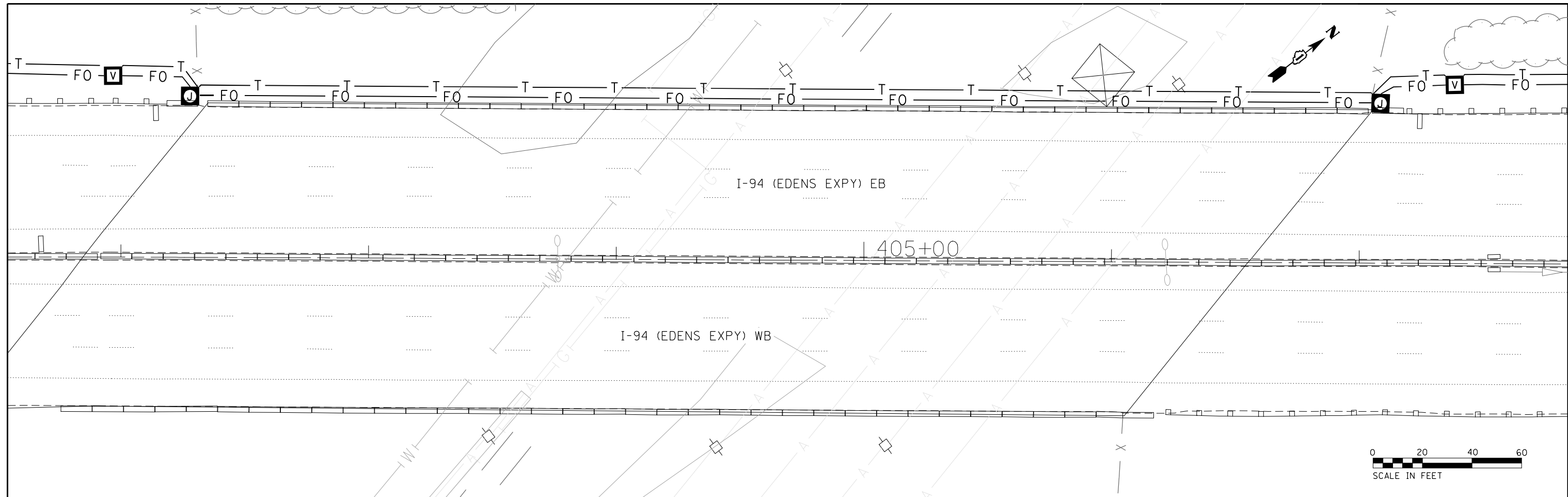
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONDUIT ATTACHED TO STRUCTURE DETAIL  
I-94 BRIDGE OVER GOLF ROAD

SCALE: NTS SHEET 19 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-06BI	COOK/LAKE	388	179
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

STE-19



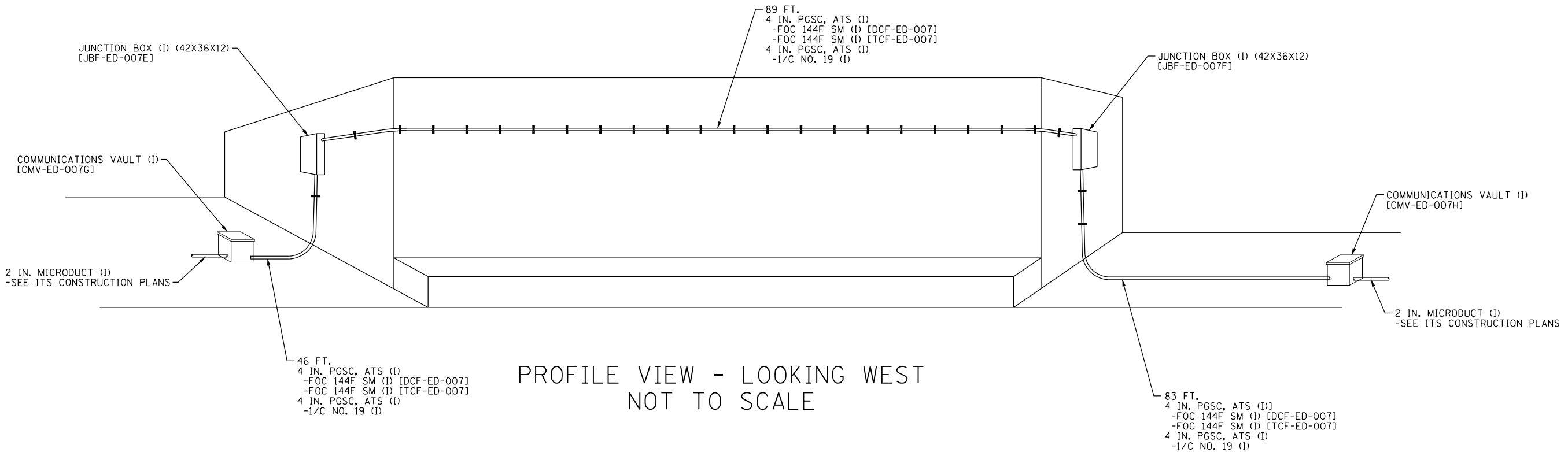
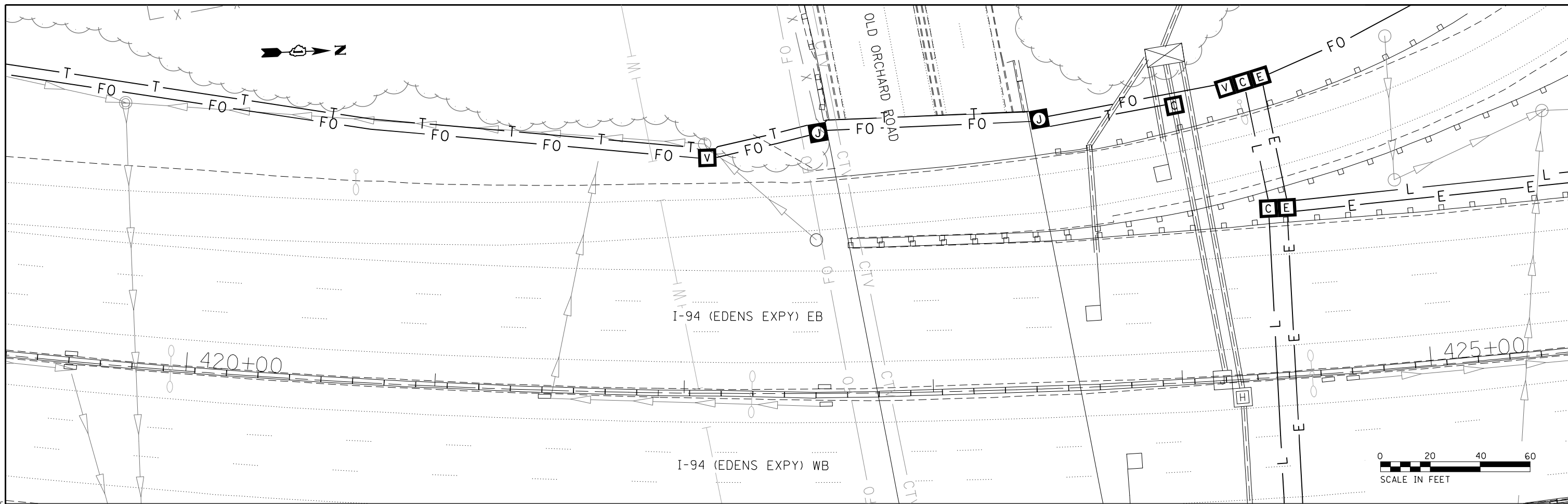
PROFILE VIEW - LOOKING EAST  
NOT TO SCALE

NOTES:  
1. ALL QUANTITIES SHOWN ON THIS SHEET ARE ACCOUNTED FOR ON THE ITS CONSTRUCTION PLANS.

STE-20

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	SCALE: NTS SHEET 20 OF 23 SHEETS STA. TO STA.						



PROFILE VIEW - LOOKING WEST  
NOT TO SCALE

NOTES:  
1. ALL QUANTITIES SHOWN ON THIS SHEET ARE ACCOUNTED FOR ON THE ITS CONSTRUCTION PLANS.

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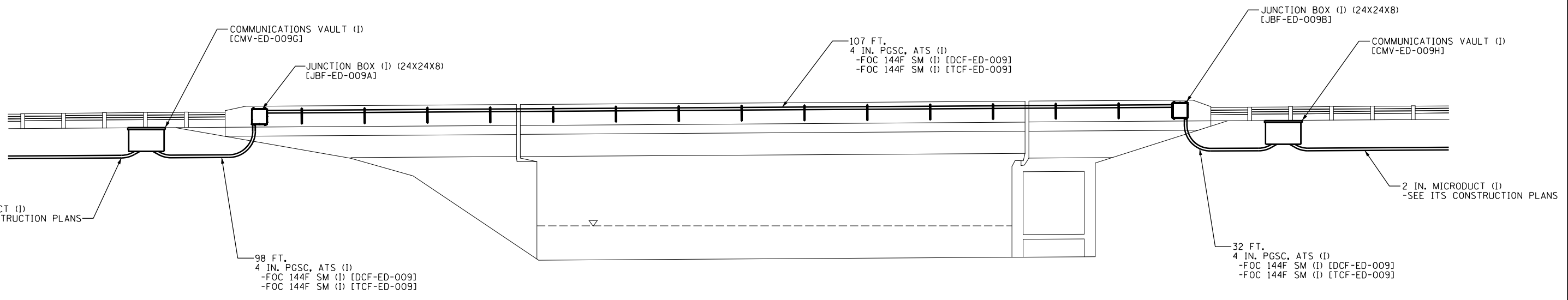
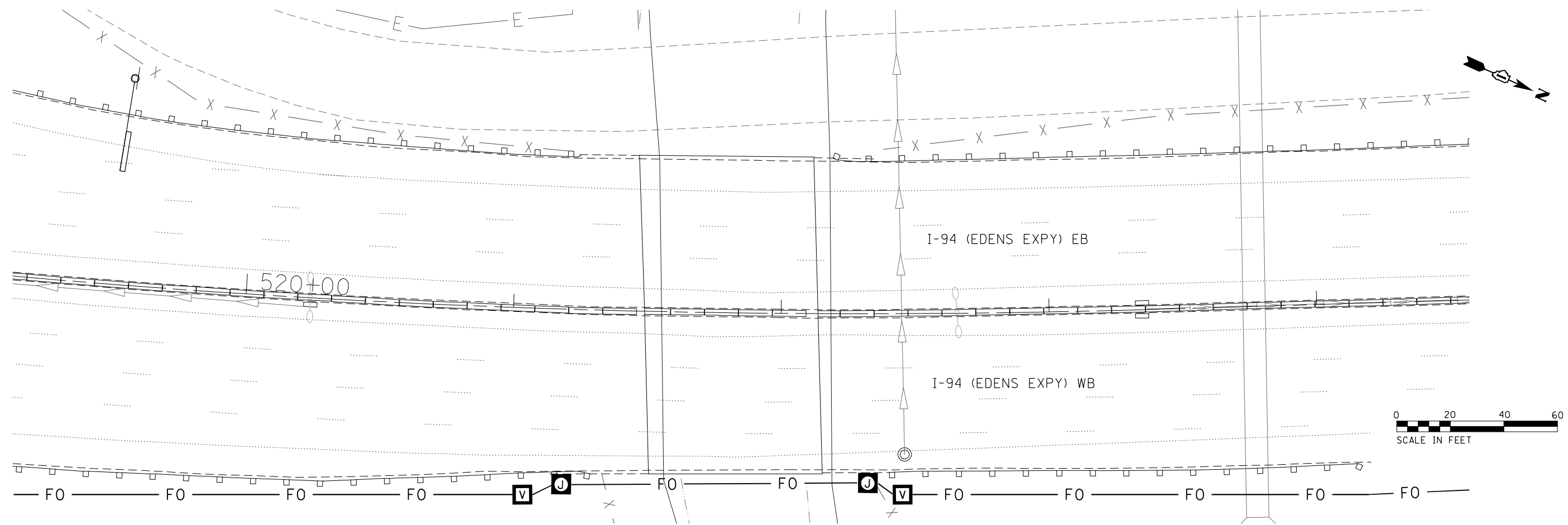
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PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONDUIT ATTACHED TO STRUCTURE DETAIL  
I-94 AT OLD ORCHARD ROAD OVERPASS

SCALE: NTS SHEET 21 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	181
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				



PROFILE VIEW - LOOKING WEST  
NOT TO SCALE

NOTES:  
1. ALL QUANTITIES SHOWN ON THIS SHEET ARE ACCOUNTED FOR ON THE ITS CONSTRUCTION PLANS.

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USER NAME = BREITEMF	DESIGNED - JJZ	REVISED -
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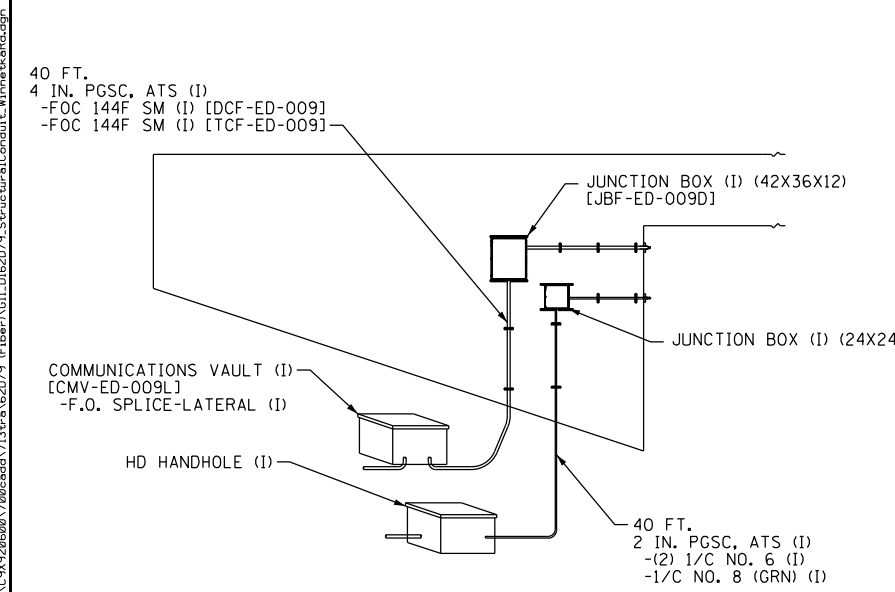
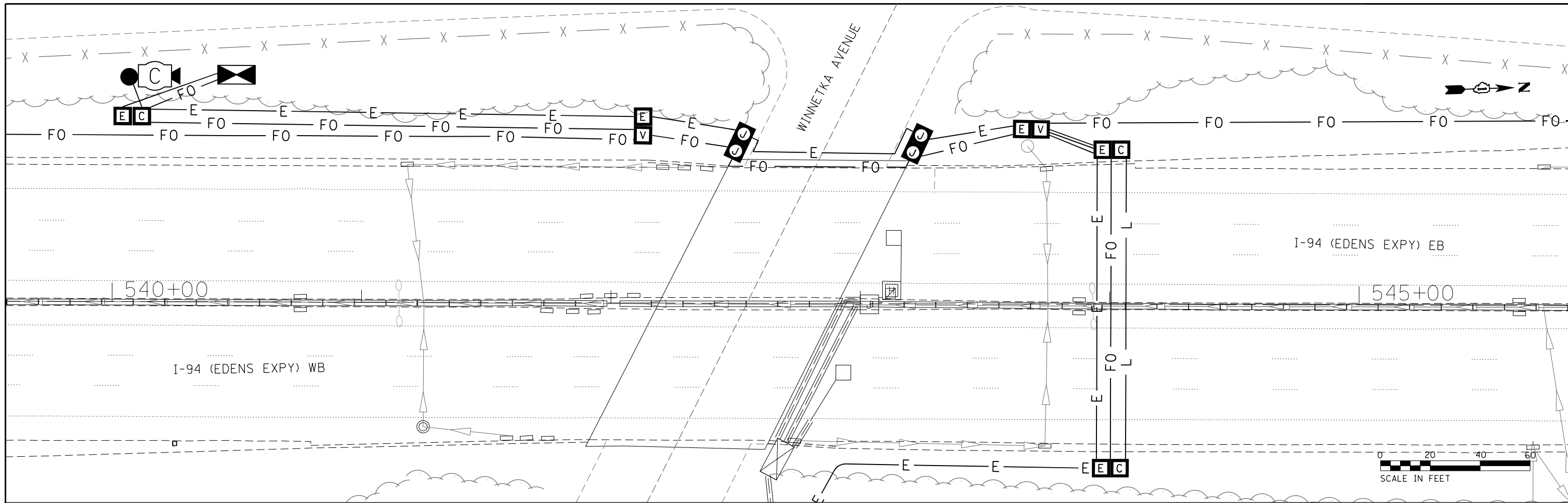
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SKOKIE RIVER CROSSING

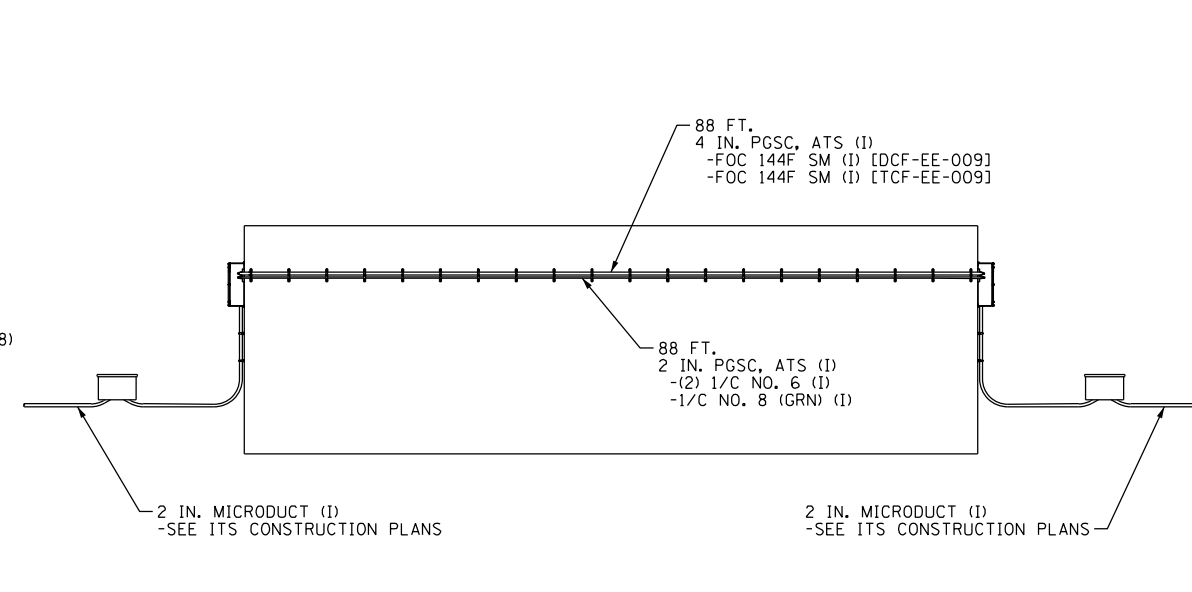
SCALE: NTS SHEET 22 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-06BI	COOK/LAKE	391	182
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

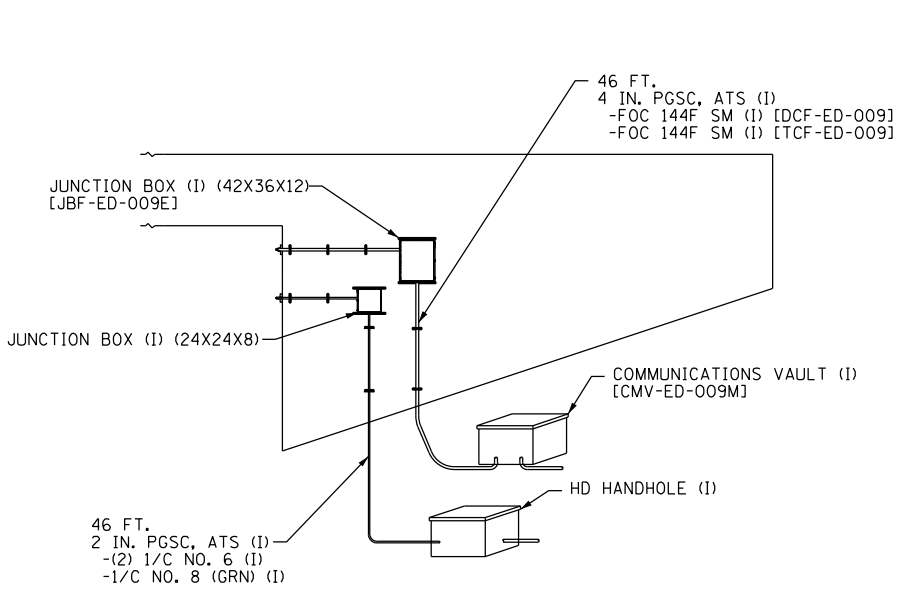
STE-22



PROFILE VIEW - LOOKING NORTH  
NOT TO SCALE



PROFILE VIEW - LOOKING WEST  
NOT TO SCALE



PROFILE VIEW - LOOKING SOUTH  
NOT TO SCALE

NOTES:  
1. ALL QUANTITIES SHOWN ON THIS SHEET ARE ACCOUNTED FOR ON THE ITS CONSTRUCTION PLANS.

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USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HAR	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

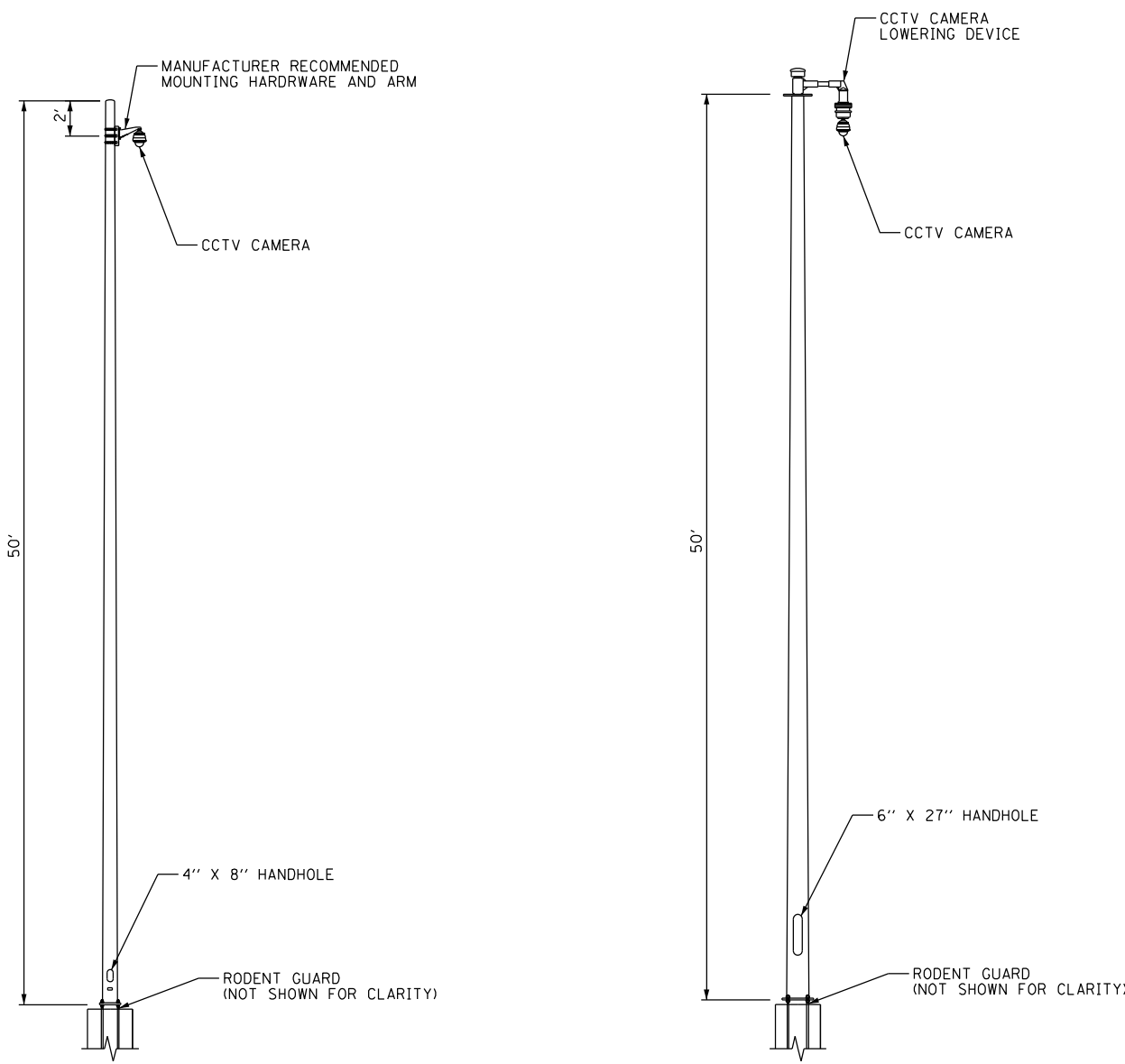
CONDUIT ATTACHED TO STRUCTURE DETAIL  
I-94 AT WINNETKA ROAD OVERPASS  
SCALE: NTS SHEET 23 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	183
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

STE-23

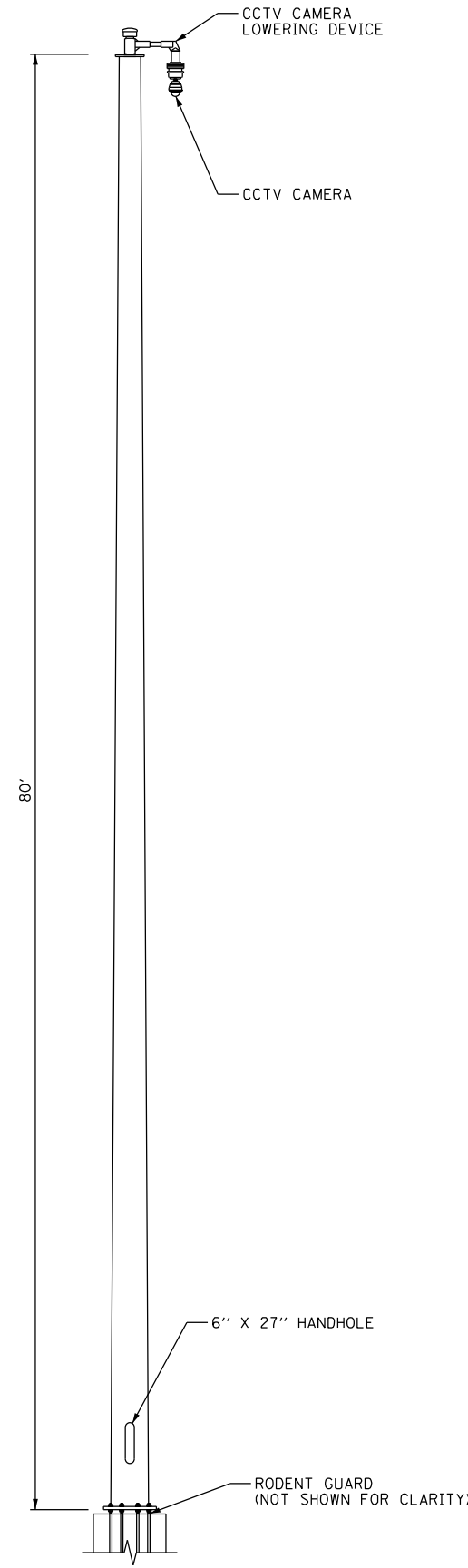
MATERIAL REQUIREMENTS FOR GALVANIZED STEEL POLES		
COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
POLE SHAFT	A572, OR A1011	50
BASE PLATE	A572, OR A1011	50
POLE TOP PLATE	A572, OR A1011	50
ANCHOR BOLTS	F1554	55
GALVNIZING, STRUCTURE	A123	N/A
GALVANIZING, HARDWARE	A153	N/A

- NOTES:
- POLE DIMENSIONS SHALL BE VERIFIED BY POLE MANUFACTURER AND MAY VARY IN ORDER TO MEET DEFLECTION CRITERIA SPECIFIED IN THE SPECIAL PROVISIONS.
  - A RODENT GUARD SHALL BE INSTALLED BETWEEN BASE PLATE AND FOUNDATION. SEE SPECIAL PROVISIONS.

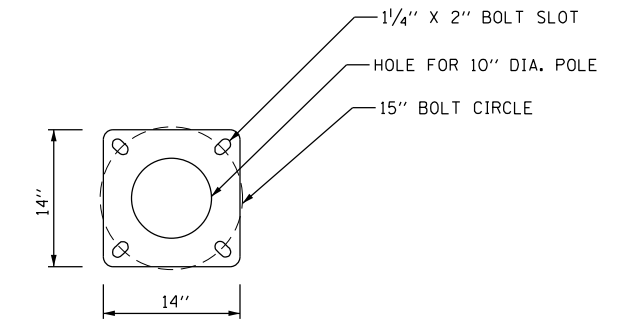


**50' ALUMINUM POLE**

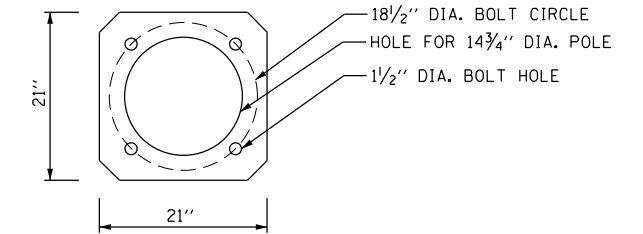
**50' GALVANIZED STEEL POLE WITH LOWERING DEVICE**



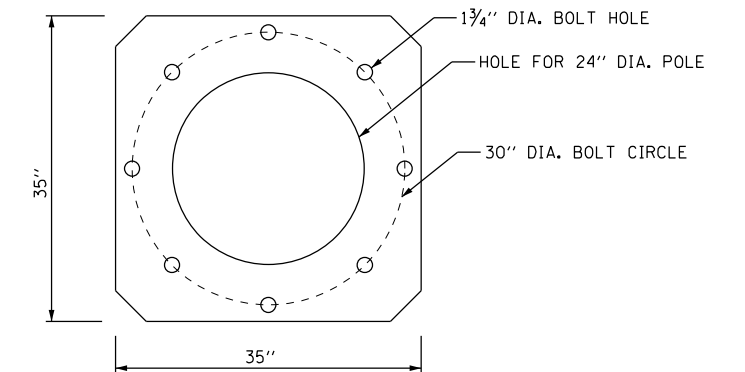
**80' GALVANIZED STEEL POLE WITH LOWERING DEVICE**



**50' ALUMINUM POLE BASE**



**50' GALVANIZED STEEL POLE BASE**



**80' GALVANIZED STEEL POLE BASE**

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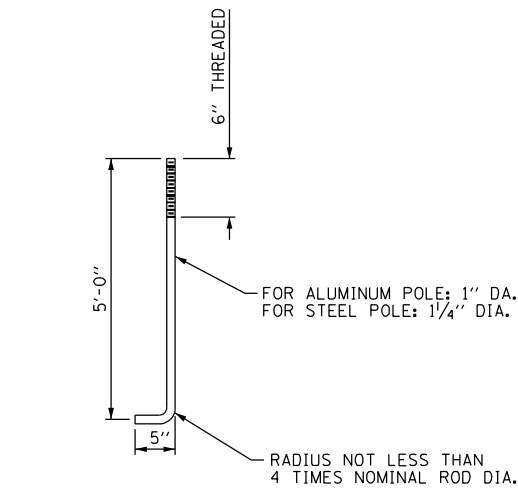
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	DATE - 02/28/2020	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	184
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	

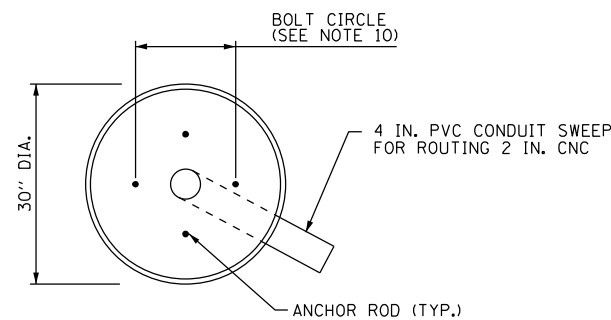


**CCTV CAMERA POLE FOUNDATION DEPTH TABLE**

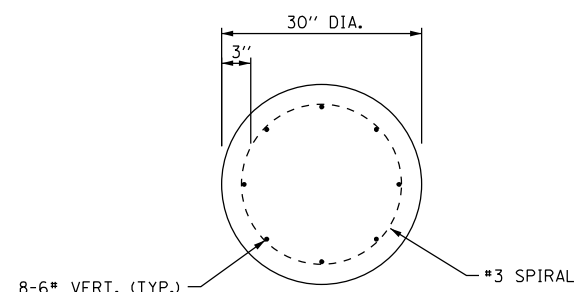
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION
SOFT CLAY Q <sub>u</sub> = 0.375 TON/SQ. FT.	13'-0"
MEDIUM CLAY Q <sub>u</sub> = 0.75 TON/SQ. FT.	9'-6"
STIFF CLAY Q <sub>u</sub> = 1.50 TON/SQ. FT.	7'-0"
LOOSE SAND φ = 34°	9'-0"
MEDIUM SAND φ = 37.5°	8'-3"
DENSE SAND φ = 40°	7'-9"



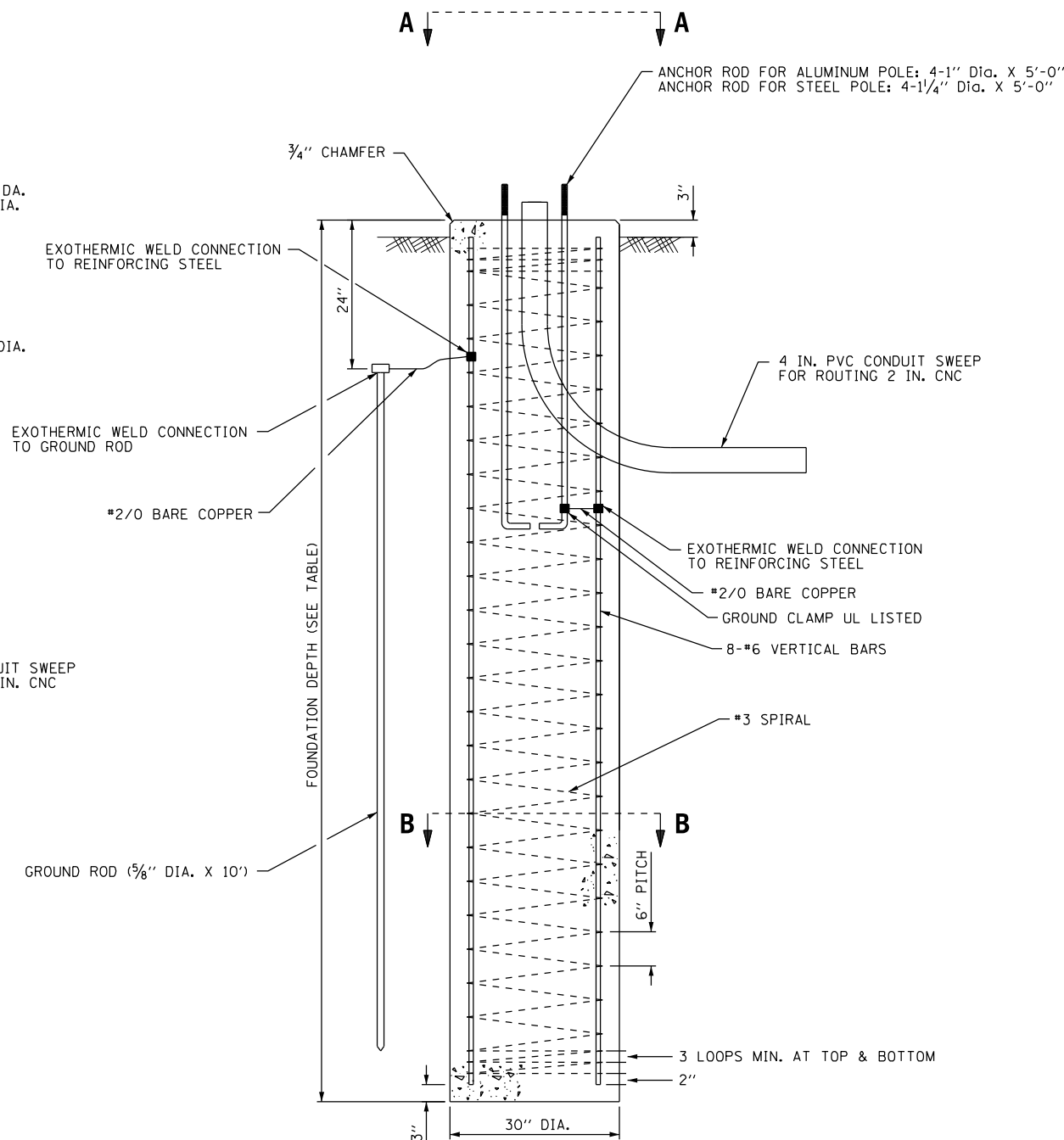
**ANCHOR ROD DETAIL**



**SECTION A-A**



**SECTION A-A**



**50' CAMERA POLE FOUNDATION SECTION**

**NOTES:**

- ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4" ABOVE THE FINISHED GRADE WITHIN A 60" CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4".
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6" WITH A MINIMUM OF 3" OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" ABOVE THE TOP OF THE FOUNDATION.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" PITCH OR MAY SUBSTITUTE #3 TIES AT 12" O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CONDUIT TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE CAMERA POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 2" ABOVE THE TOP OF THE FOUNDATION.
- ANCHOR ROD BOLT CIRCLE TO BE COORDINATED WITH CAMERA STRUCTURE.

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USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
	DRAWN - HAR	REVISED -
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

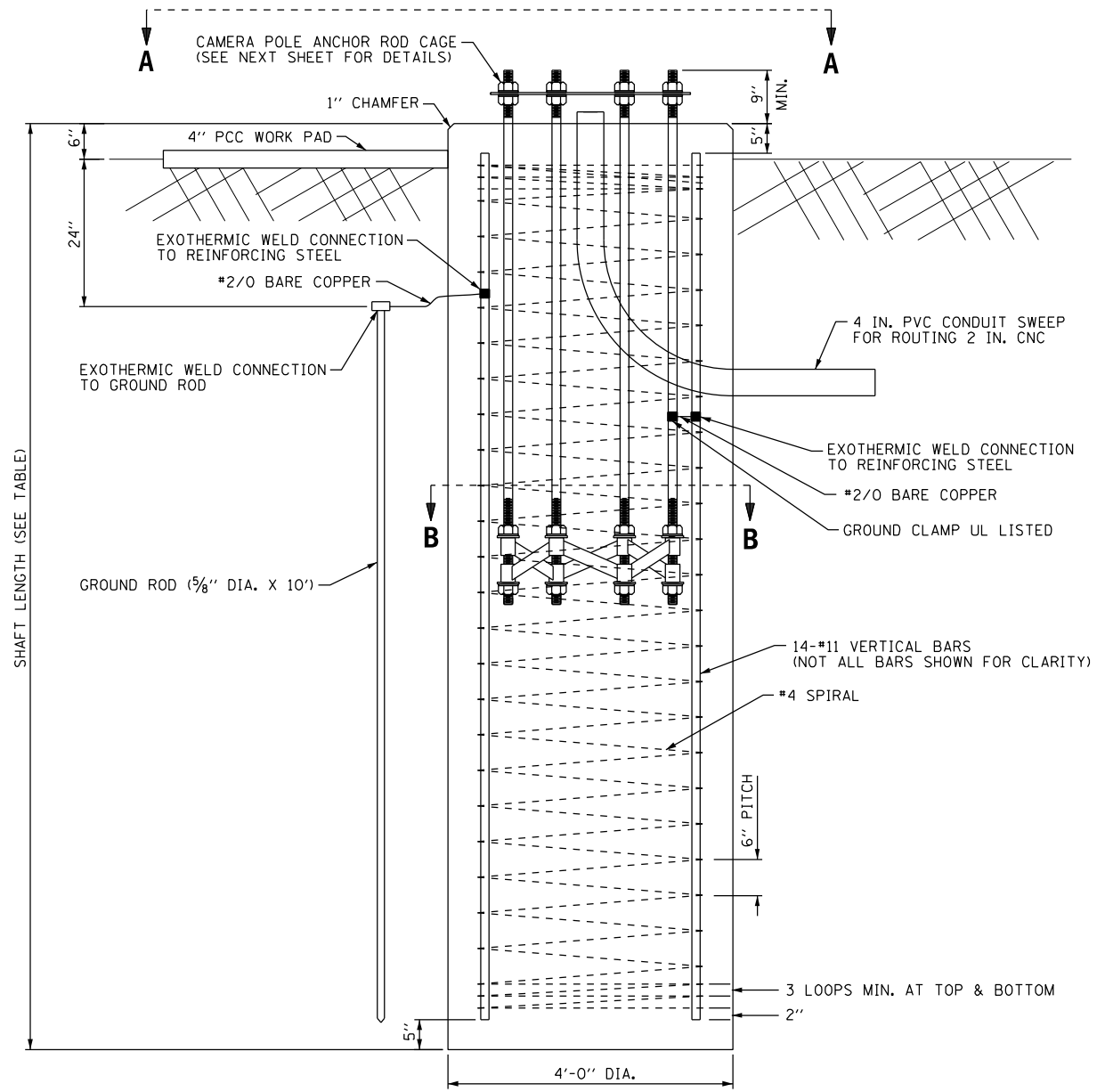
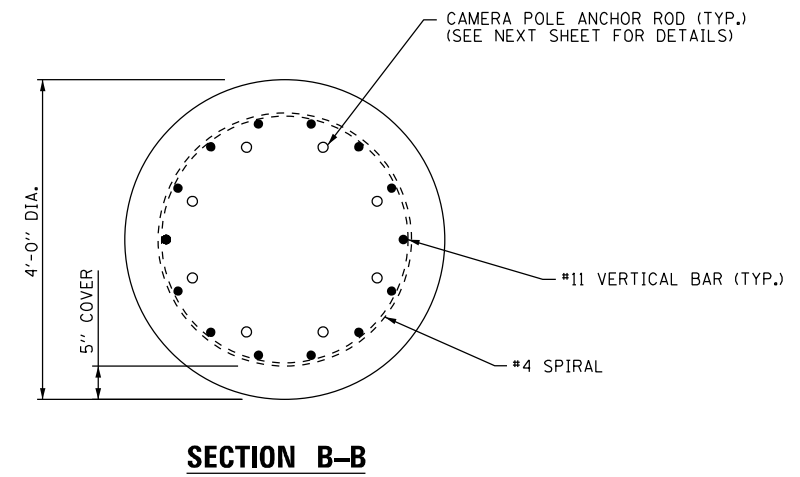
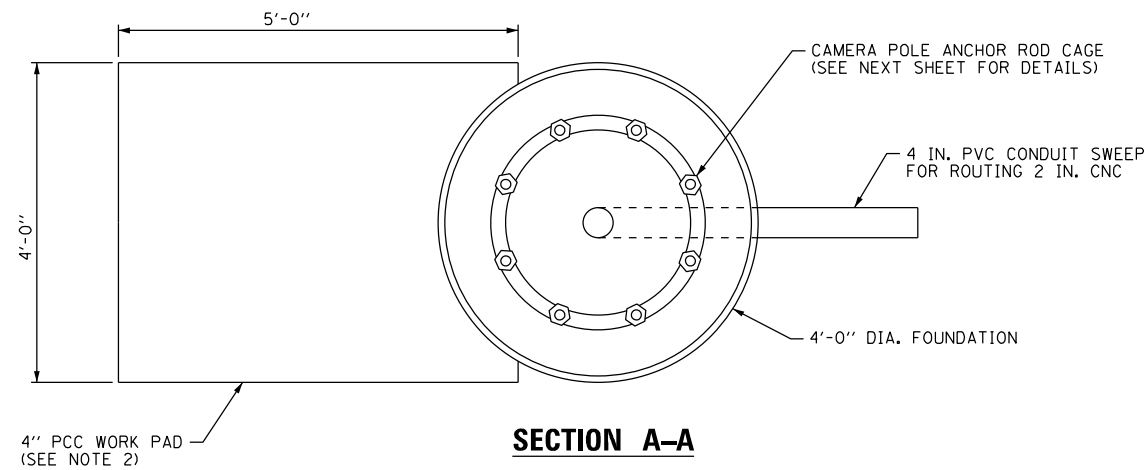
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**50 FT. CCTV CAMERA POLE FOUNDATION DETAIL**

SCALE: NTS SHEET 2 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	185
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	

DET-02



FOUNDATION SHAFT LENGTH TABLE				
SITE NO.	SITE ID	STATION	OFFSET	FOUNDATION DEPTH
09	ED-002	127+10	121' LT	13'-0"
13	ED-003A	206+59	374' RT	13'-0"
19	ED-006/ED-006A	341+90	110' RT	14'-6"
23	ED-007A	426+32	103' LT	13'-0"
26	ED-008B	487+82	95' LT	14'-6"
27	ED-009	508+97	140' RT	13'-0"
29	ED-010/ED-010A	537+16	91' RT	14'-6"
32	ED-011A	634+14	119' LT	13'-0"
36	ED-013	717+34	91' LT	11'-6"
37	ED-013A	747+54	109' RT	11'-6"
38	ED-014	776+96	98' RT	13'-0"
39	ED-014A	811+30	121' LT	13'-0"
40	ED-016	894+79	103' RT	14'-6"
41	ED-017	932+83	92' LT	14'-6"

NOTES:

- CONTRACTOR SHALL DETERMINE THE NEED FOR FOUNDATION CASING BASED UPON SOIL BORING LOGS AND OBSERVED FIELD CONDITIONS UPON DRILLING FOUNDATION SHAFT HOLE.
- FOUNDATION DIAMETER BASED ON A 5" CONC. COVER. THE MIN. COVER SHALL BE 3" IN DRY SHAFT EXCAVATION AND 4" IN A WET HOLE. WHEN ROCK IS ENCOUNTERED, A 5" COVER AGAINST SOIL AND A 2" COVER AGAINST ROCK SHALL BE REQUIRED.
- ALL FOUNDATION REINFORCEMENT STEEL SHALL BE EPOXY COATED.
- THE COST OF REINFORCEMENT SHALL BE INCLUDED IN THE COST OF THE FOUNDATION.
- 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.
- CONCRETE WORK PAD SHALL BE INSTALLED TO PROVIDE A MAINTENANCE PERSONEL A LEVEL PLATFORM TO ACCESS THE POLE HANDHOLE FOR LOWERING THE CCTV CAMERA. CONTRACTOR SHALL ADJUST WORK PAD DEPTH BASED UPON SITE CONDITIONS.
- GROUNDING ELECTRODES SHALL BE INSTALLED IN AN ACCESS WELL WHEN THERE IS A CONFLICT IN USING THE METHOD SHOWN.
- ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

80' CAMERA POLE FOUNDATION SECTION

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USER NAME = zvoianj	DESIGNED - JJZ	REVISED -
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	DATE - 02/28/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

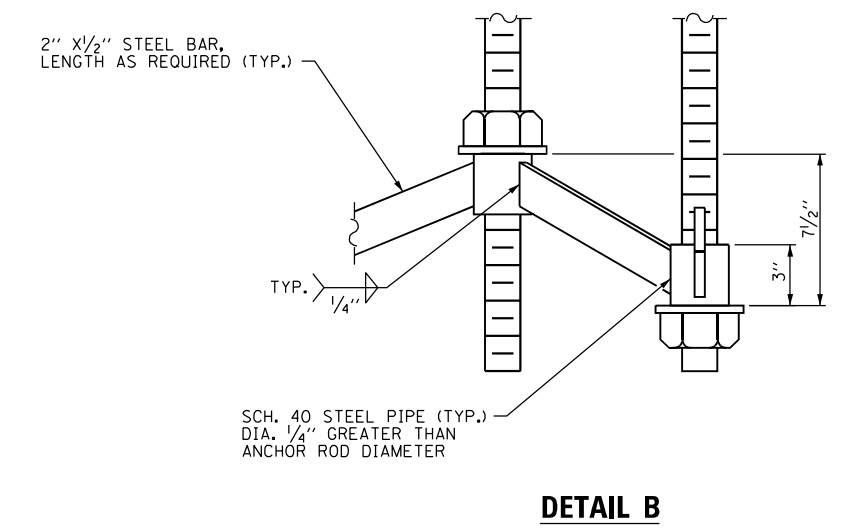
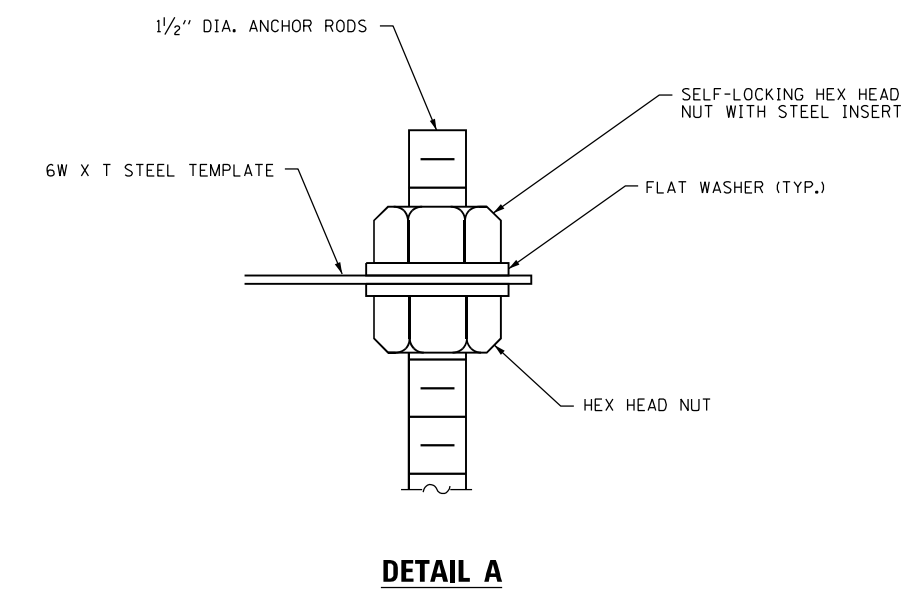
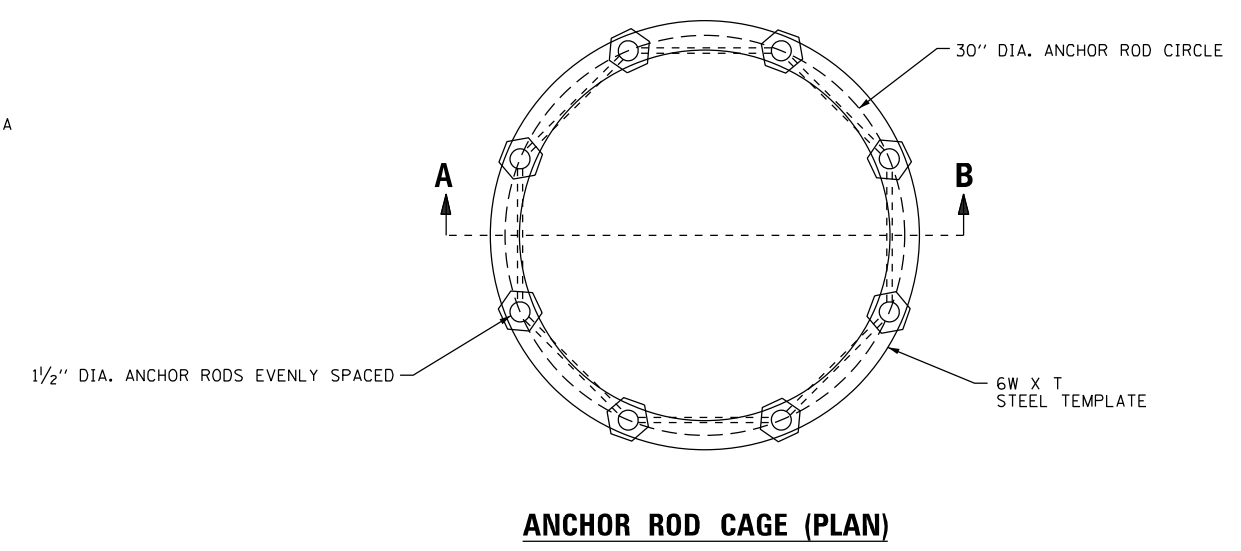
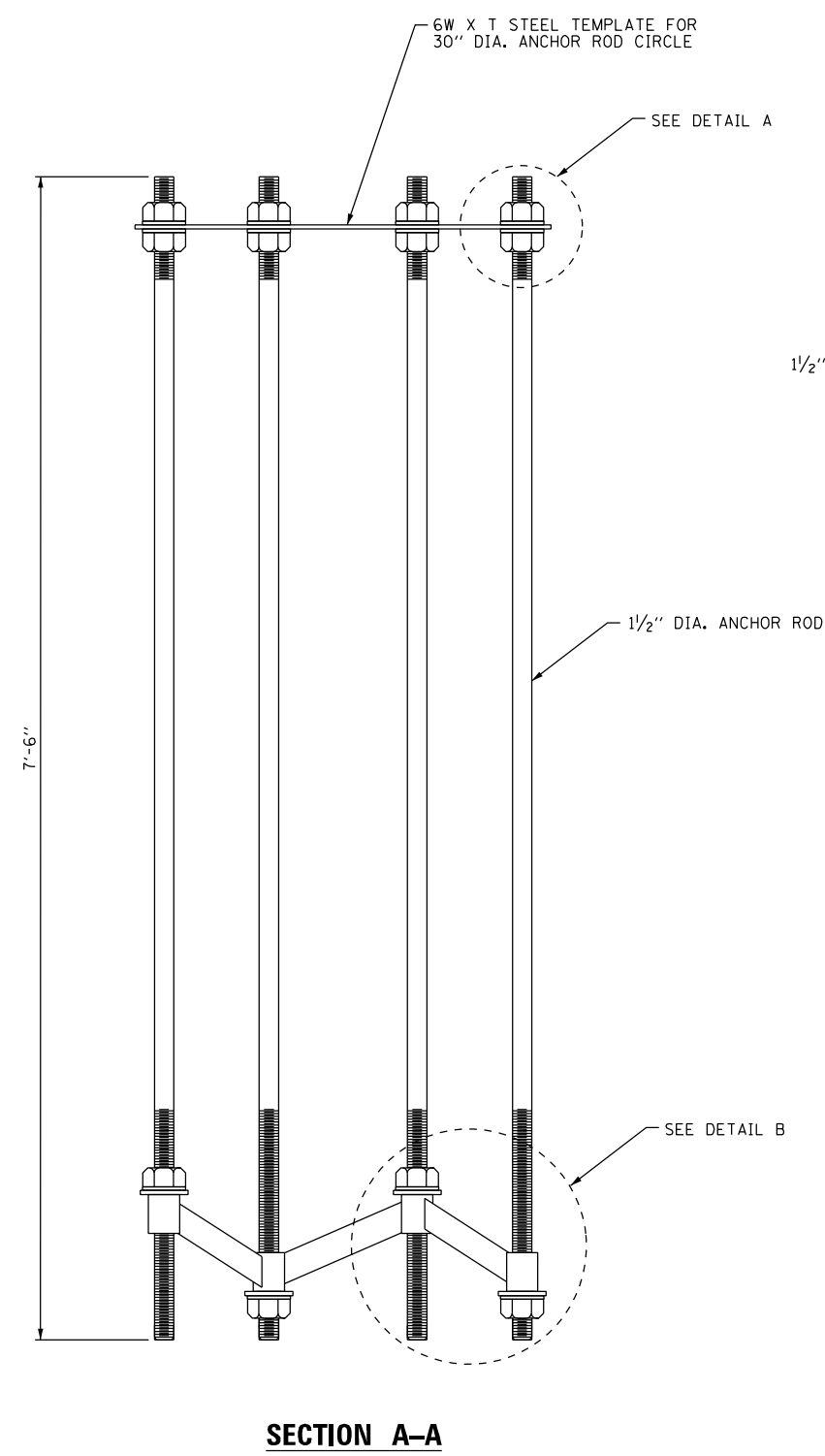
80 FT. CCTV CAMERA POLE FOUNDATION DETAIL  
SHEET 1 OF 2

SCALE: NTS SHEET 3 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	186
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

DET-03

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- NOTES:
1. 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.
  2. STEEL ANCHOR ROD FORMS SHALL NOT BE REMOVED FOR A MINIMUM OF 3 DAYS AFTER CONCRETE IS POURED. THE CCTV STRUCTURE SHALL NOT BE SET FOR A MINIMUM OF 7 DAYS OR AS APPROVED BY THE ENGINEER.
  3. COORDINATE THE ROD CIRCLE DIAMETER OF THE STRUCTURE WITH THE DIAMETER OF THE ANCHOR ROD CAGE.
  4. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.
  5. ANCHOR RODS SHALL HAVE A MINIMUM THREADED LENGTH OF 8 INCHES AT TOP OF ROD AND 18" AT BOTTOM OF ROD.



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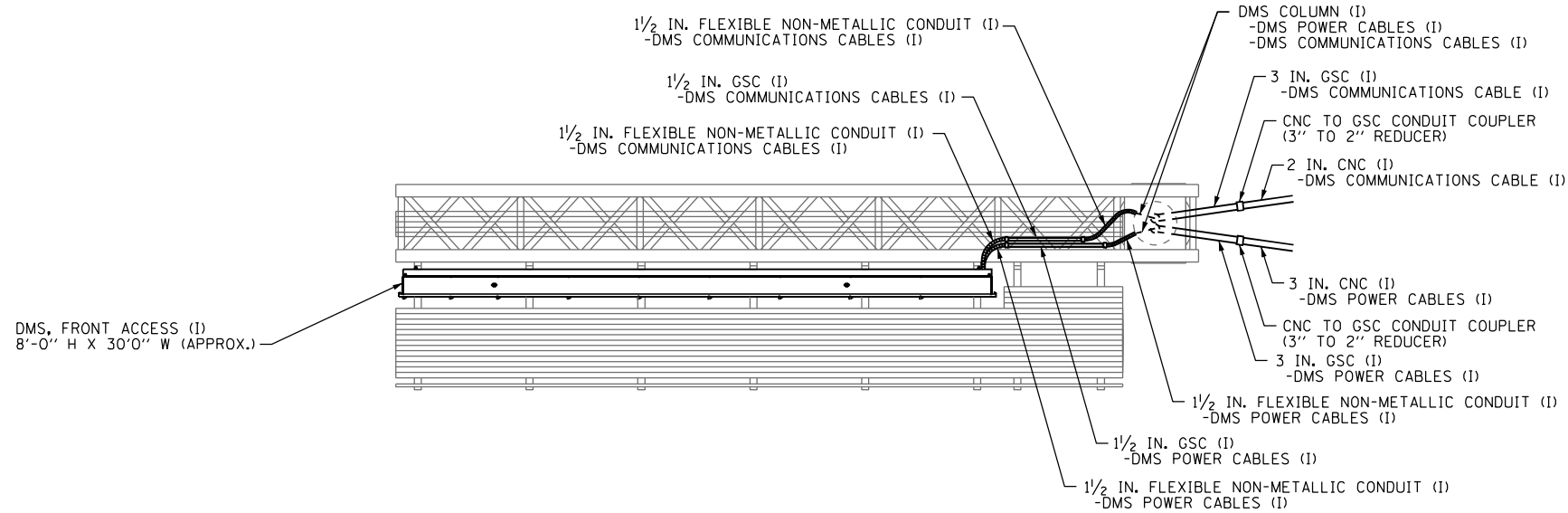
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**80 FT. CCTV CAMERA POLE FOUNDATION DETAIL**  
**SHEET 2 OF 2**

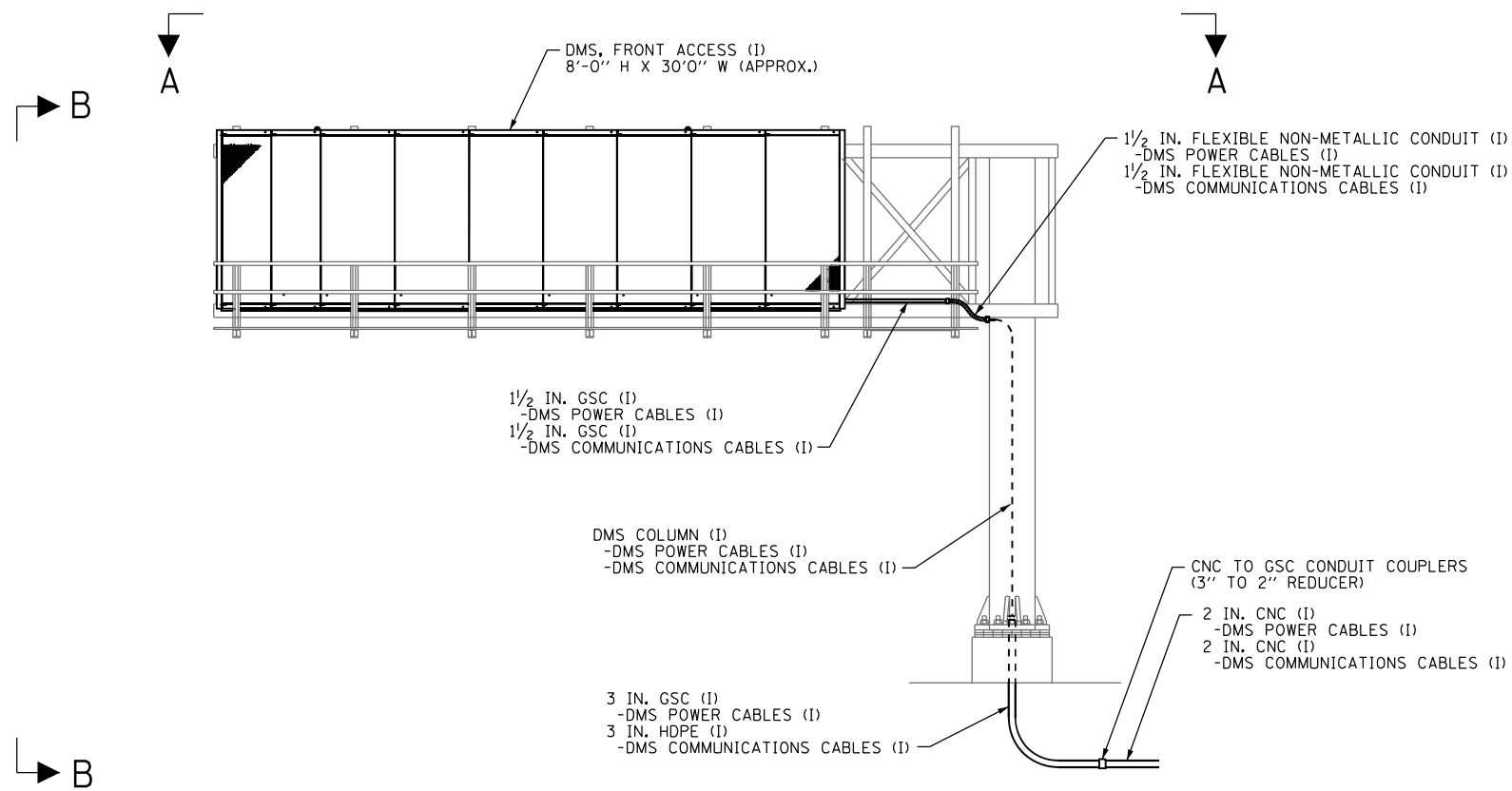
SCALE: NTS      SHEET 4 OF 23 SHEETS STA.      TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0681	COOK/LAKE	388	187
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	

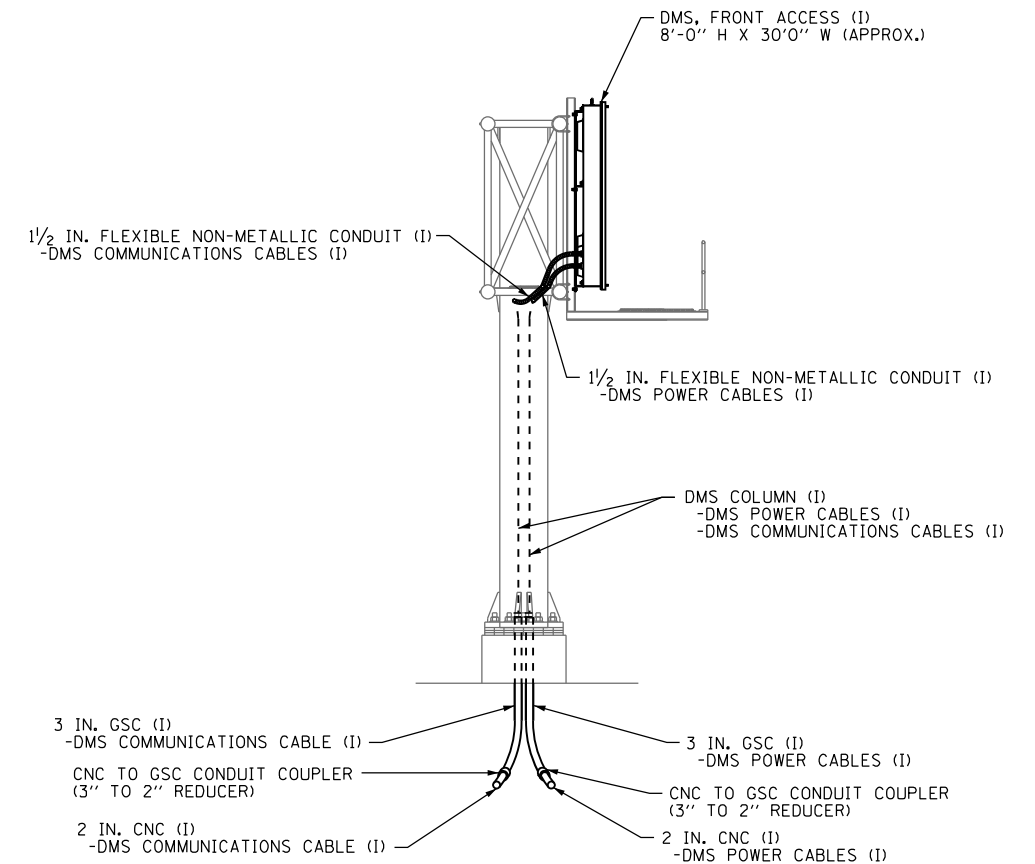
DET-04



**SECTION A-A**



**CANTILEVER STRUCTURE DMS - ELEVATION VIEW**



**SECTION B-B**

**NOTES:**

- ALL CONDUIT BENDS SHALL HAVE A MINIMUM RADIUS OF 12 INCHES. CONTRACTOR SHALL INSTALL DMS COMMUNICATIONS CABLE SO AS NOT TO VIOLATE MANUFACTURER SPECIFIED BENDING RADIUS.
- ALL CONDUIT ON STRUCTURE IS INCLUDED UNDER PAY ITEM "DYNAMIC MESSAGE SIGN, FRONT ACCESS, FULL MATRIX, COLOR, NTCIP 1203" AND WILL NOT BE PAID FOR SEPARATELY.

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**Jacobs**

USER NAME = zvolanjj	DESIGNED - KFA	REVISED -
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PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

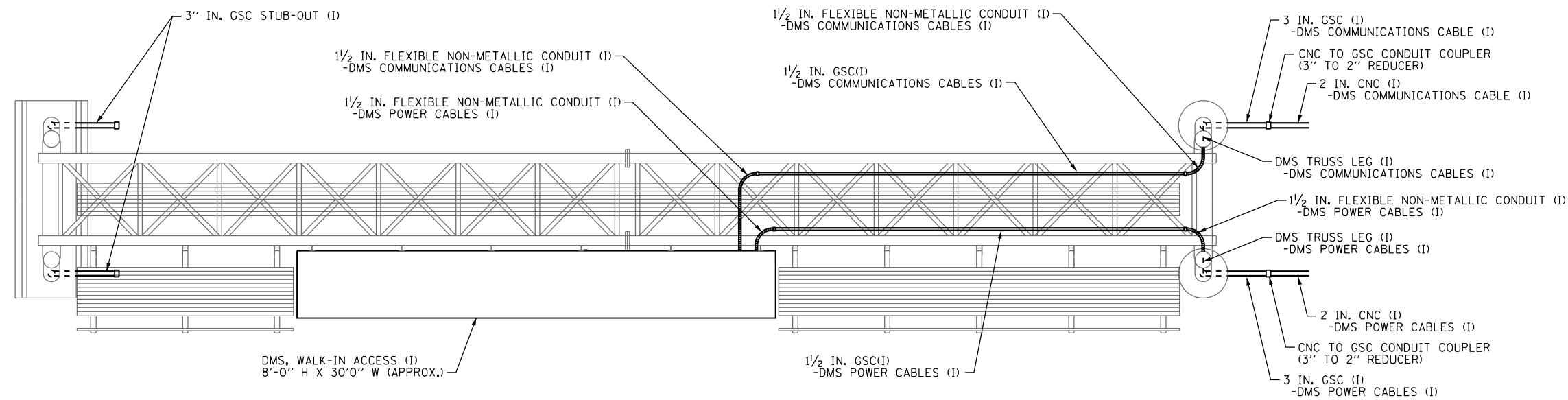
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CANTILEVER DMS STRUCTURE  
CONDUIT AND CABLE INSTALLATION DETAILS**

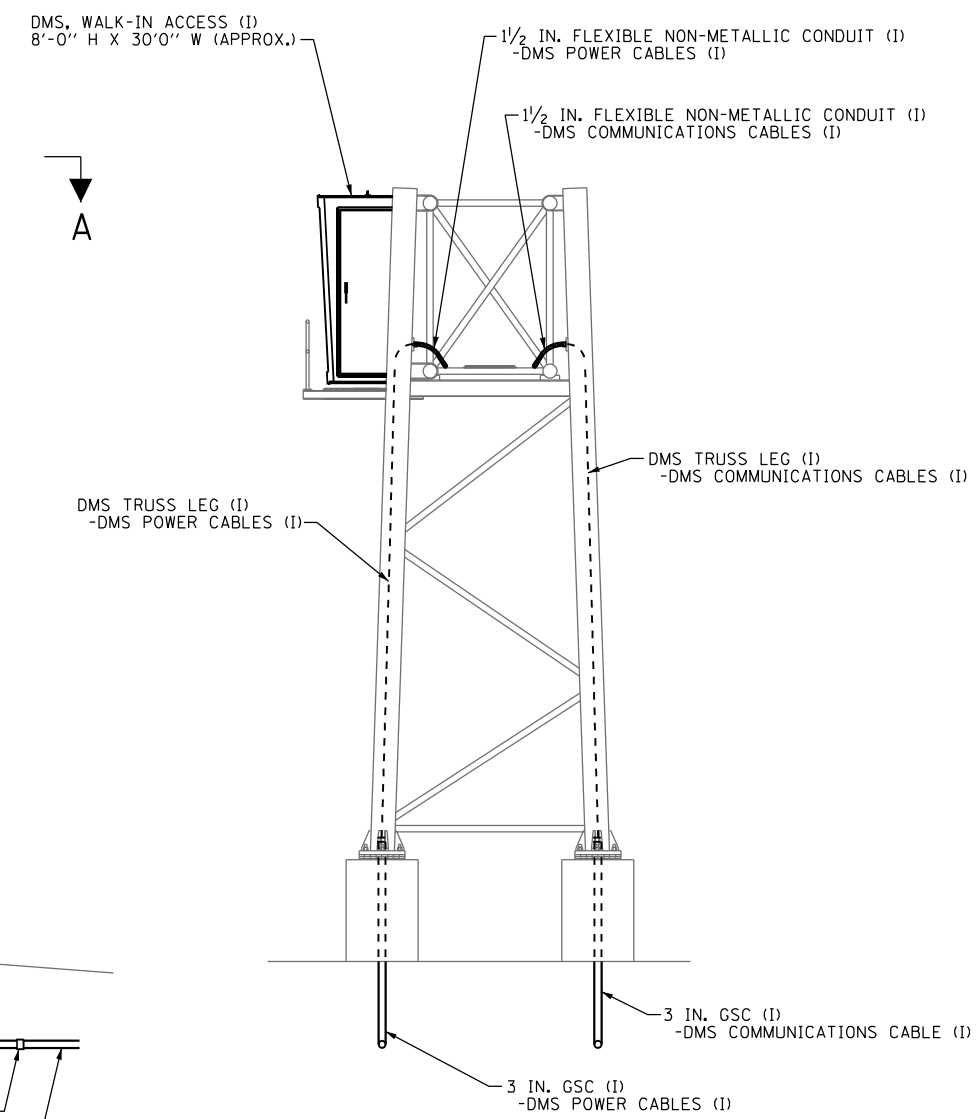
SCALE: NTS SHEET 5 OF 23 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0681	COOK/LAKE	388	188
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

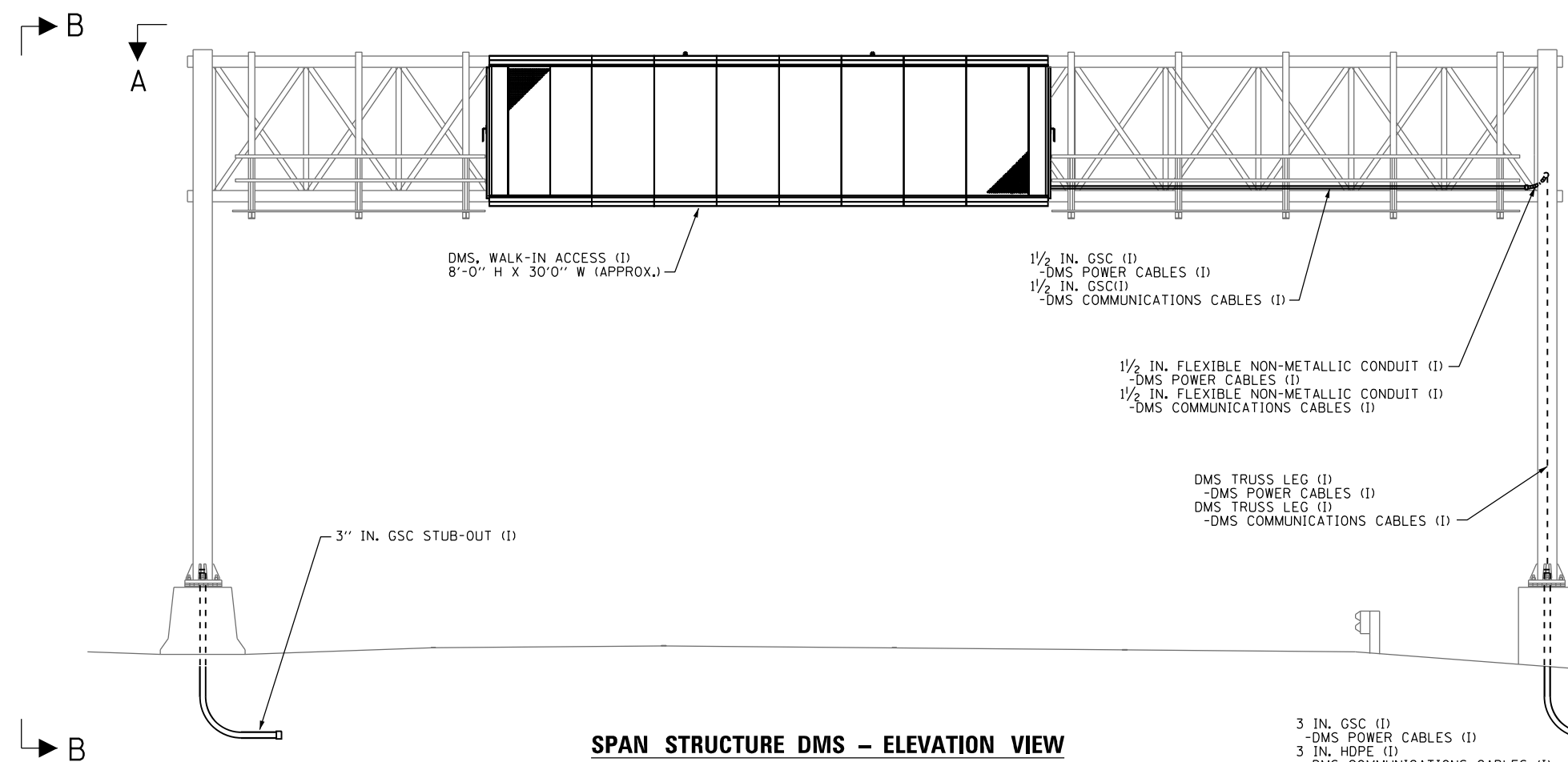
DET-05



**SECTION A-A**



**SECTION B-B**



**SPAN STRUCTURE DMS - ELEVATION VIEW**

- NOTES:
1. ALL CONDUIT BENDS SHALL HAVE A MINIMUM RADIUS OF 12 INCHES. CONTRACTOR SHALL INSTALL DMS COMMUNICATIONS CABLE SO AS NOT TO VIOLATE MANUFACTURER SPECIFIED BENDING RADIUS.
  2. ALL CONDUIT ON STRUCTURE IS INCLUDED UNDER PAY ITEM "DYNAMIC MESSAGE SIGN, WALK-IN ACCESS, FULL MATRIX, COLOR, NTCIP 1203" AND WILL NOT BE PAID FOR SEPARATELY.

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	DRAWN - DU	REVISED -
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PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

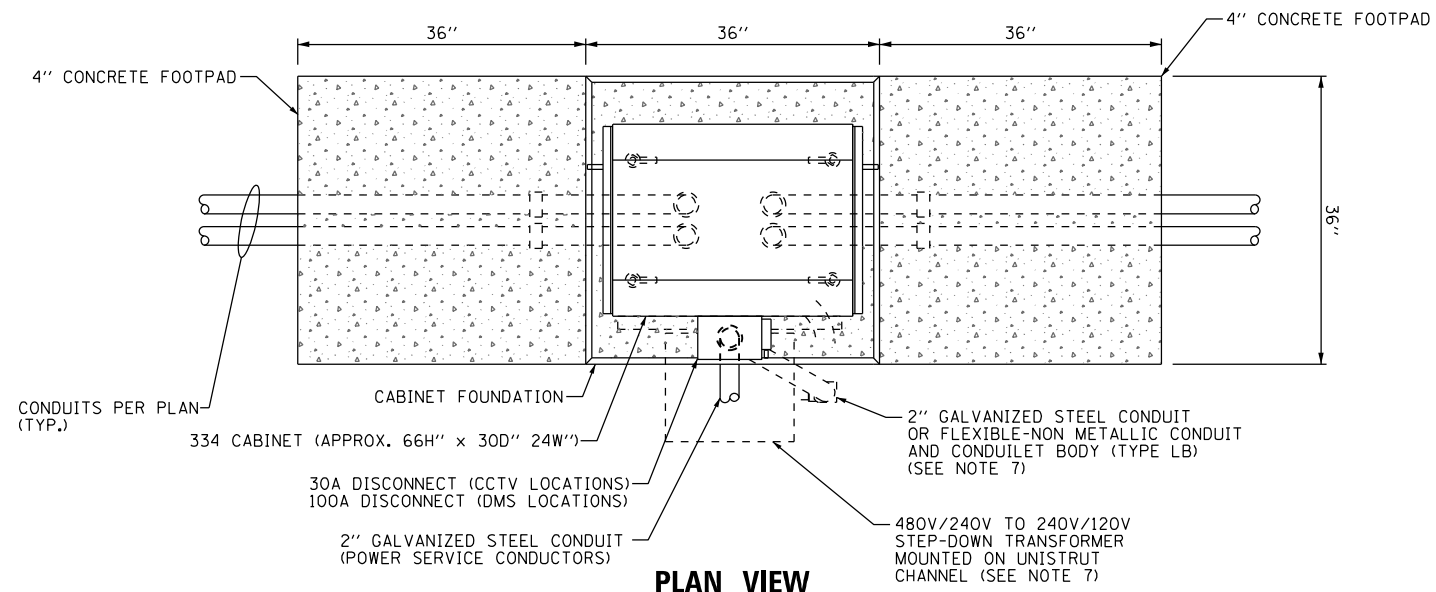
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SPAN DMS STRUCTURE  
CONDUIT AND CABLE INSTALLATION DETAILS**

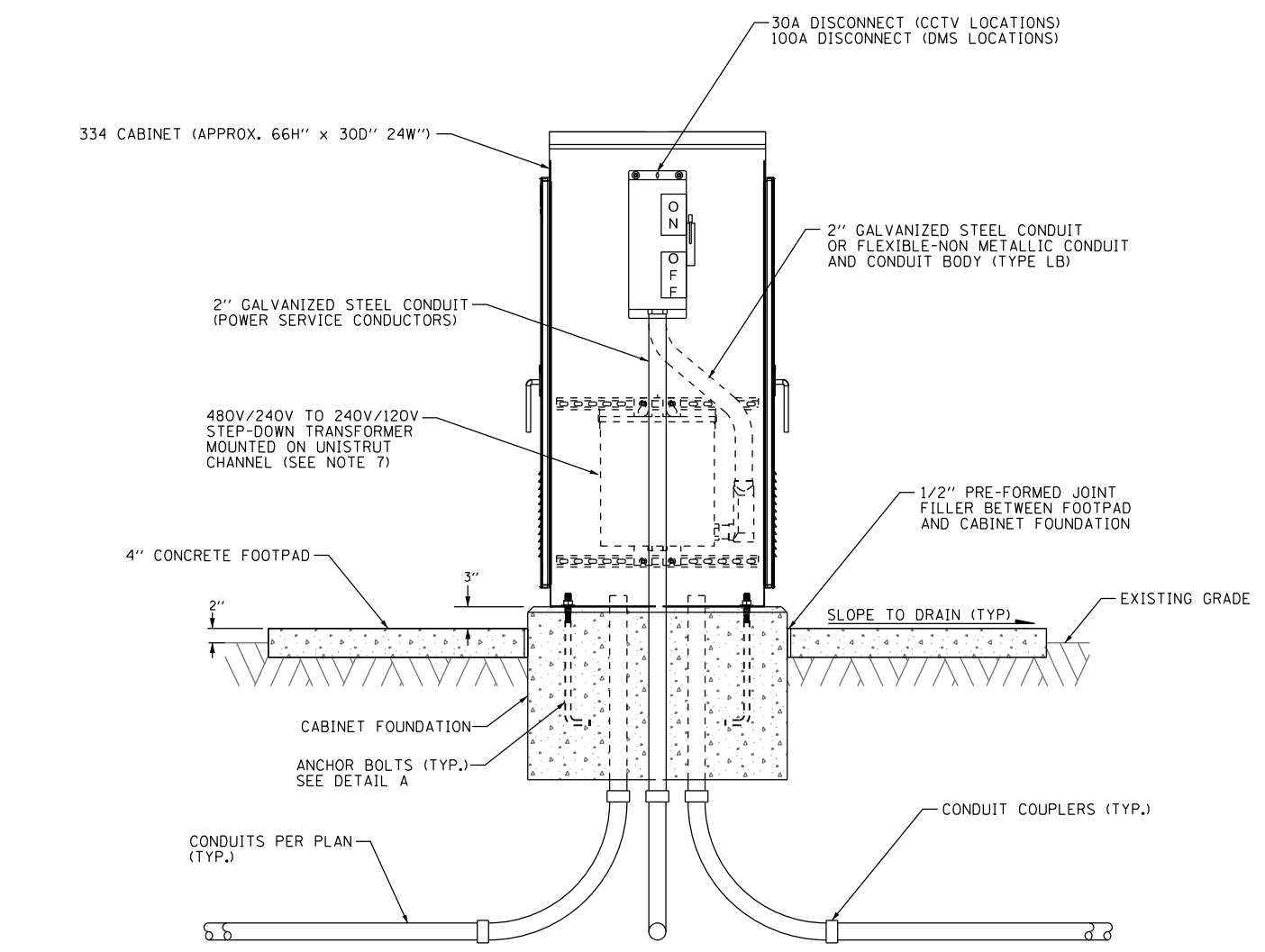
SCALE: NTS SHEET 6 OF 23 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-06BI	COOK/LAKE	388	189
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	

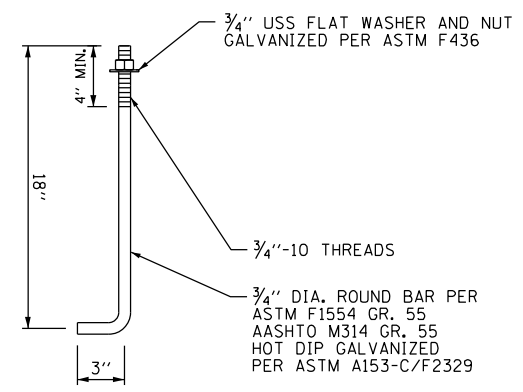
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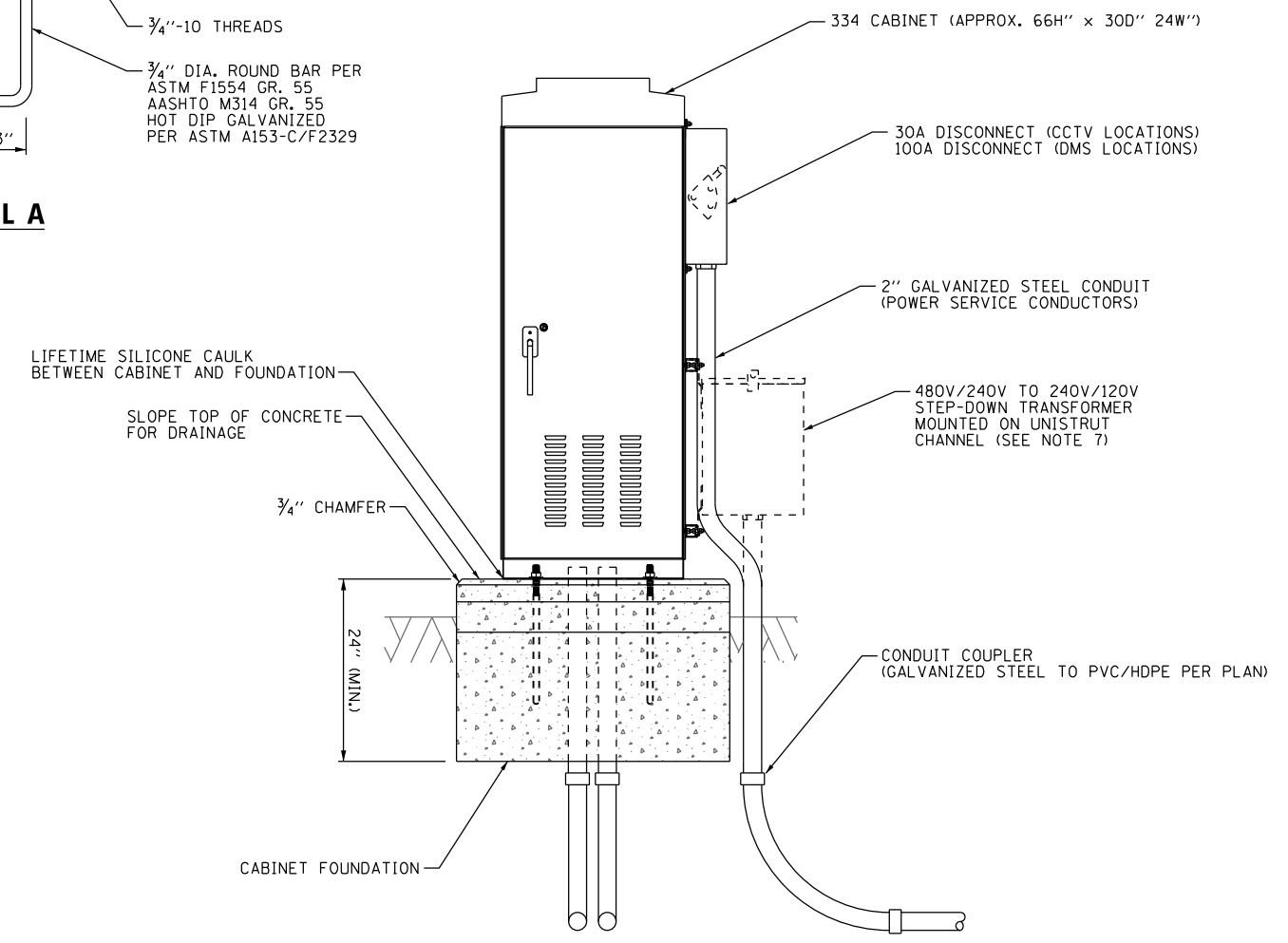
**PLAN VIEW**



**ELEVATION VIEW (SIDE)**



**DETAIL A**



**ELEVATION VIEW (FRONT)**

- NOTES:**
1. ADJUST THE ELEVATIONS AND DEPTH OF CONCRETE FOOTPADS AND FOUNDATION TO MEET THE SITE CONDITIONS. FOUNDATIONS DEPTH SHALL BE A MINIMUM OF 24" BELOW GRADE.
  2. COMPACT THE SOIL BENEATH THE CONCRETE FOOTPAD WITH A PLATE COMPACTOR OR OTHER COMPACTION METHOD APPROVED BY THE ENGINEER.
  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. COPPER CLAD GROUNDING ROD IN THE CABINET FOUNDATION. INSTALL AN INSULATED #2 GROUND WIRE FROM THE CABINET GROUND BUS TO THE GROUND ROD AND EXOTHERMICALLY BOND THE GROUND WIRE AND BAR.
  5. DISCONNECT SWITCH SHALL BE MOUNTED TO THE SIDE OF THE CABINET AND CABLES SHALL ENTER THE CABINET VIA THREADED NIPPLE SEALED AGAINST WATER ENTRY. CABLES SHALL BE ROUTED INTERNALLY TO THE POWER PANEL AND KEPT ISOLATED USING PLASTIC RACEWAY. ALL PENETRATIONS INTO THE CABINET FOR MOUNTING THE DISCONNECT SHALL BE SEALED TO THE SATISFACTION OF THE ENGINEER.
  6. ANCHOR BOLT PLACEMENT SHALL BE COORDINATED WITH CABINET MANUFACTURER.
  7. STEP-DOWN TRANSFORMER SHALL BE INSTALLED ONLY AT DMS-ED-011 LOCATED NORTH OF LAKE AVENUE.

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PLOT SCALE =	DRAWN - HAR -	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH -	REVISED -
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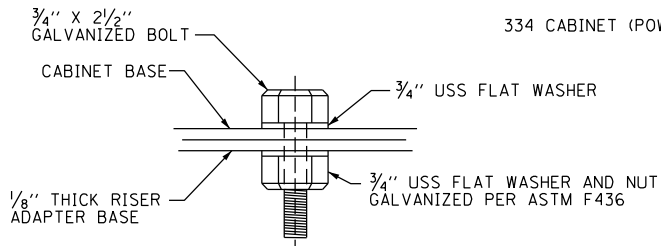
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EQUIPMENT CABINET AND FOUNDATION DETAIL  
CCTV CAMERA AND/OR DMS SITE**

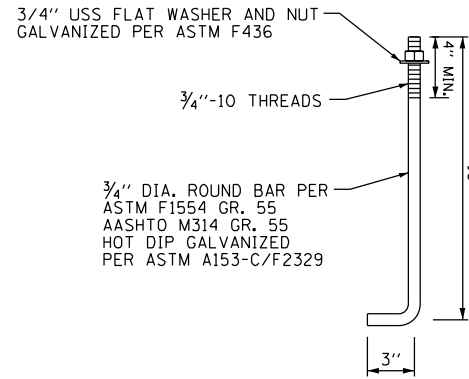
SCALE: NTS SHEET 7 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	391	190
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

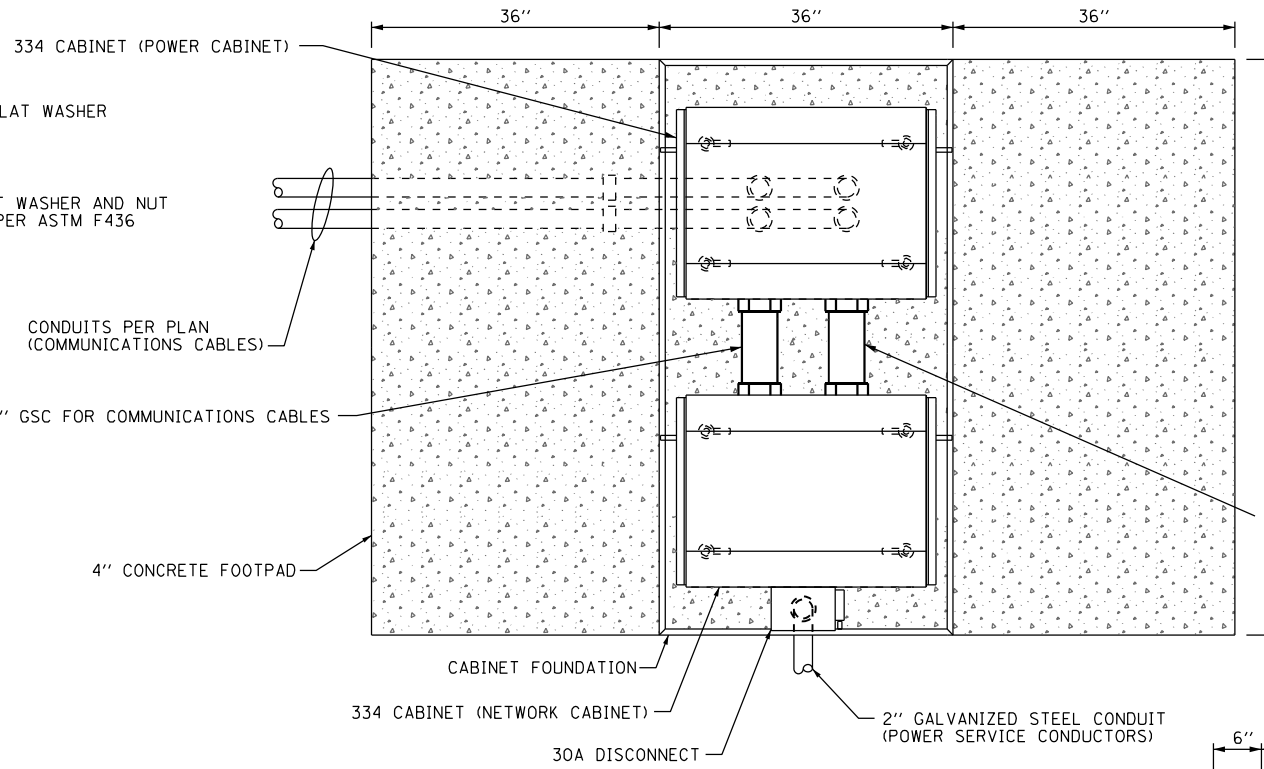
DET-07



**DETAIL B**



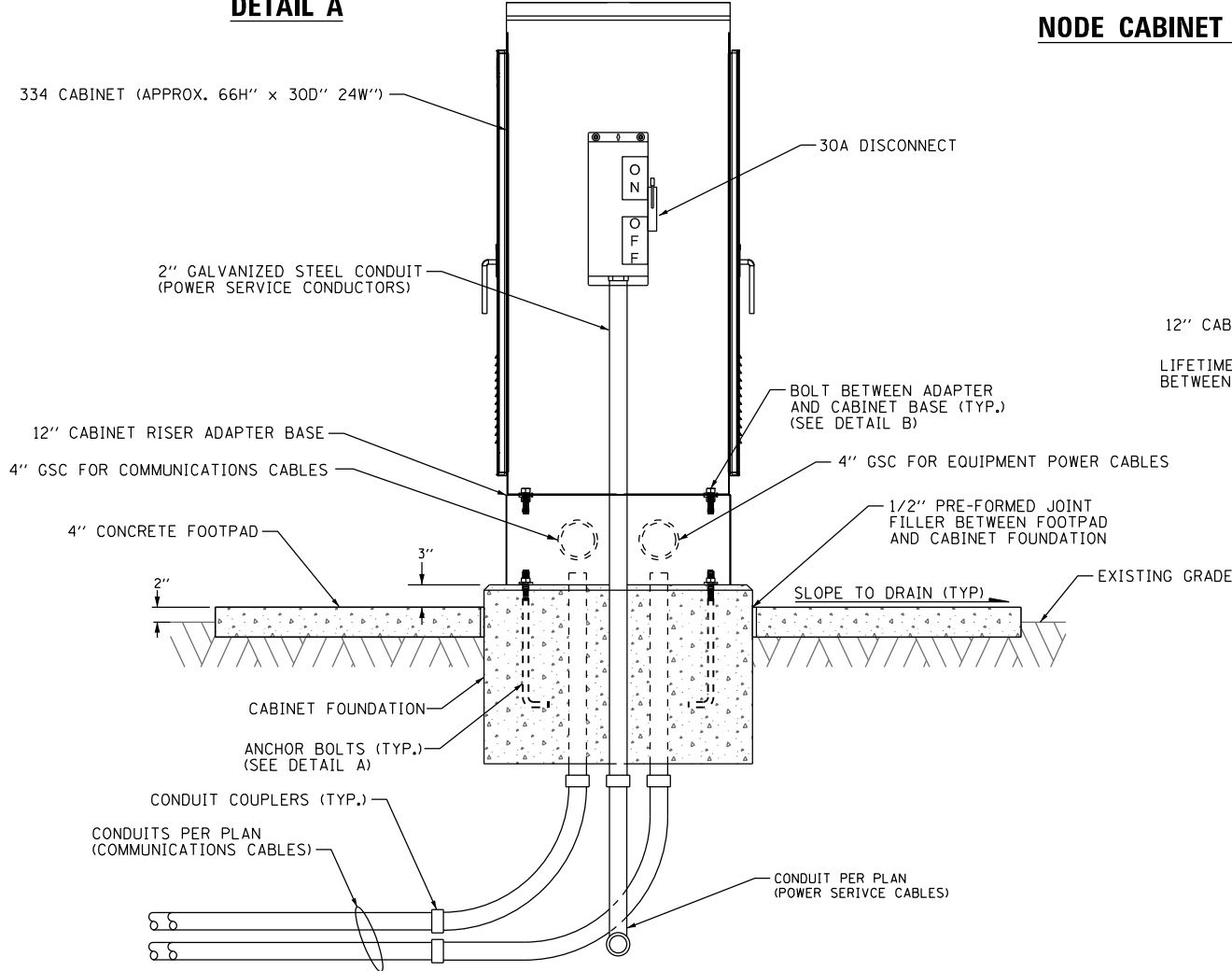
**DETAIL A**



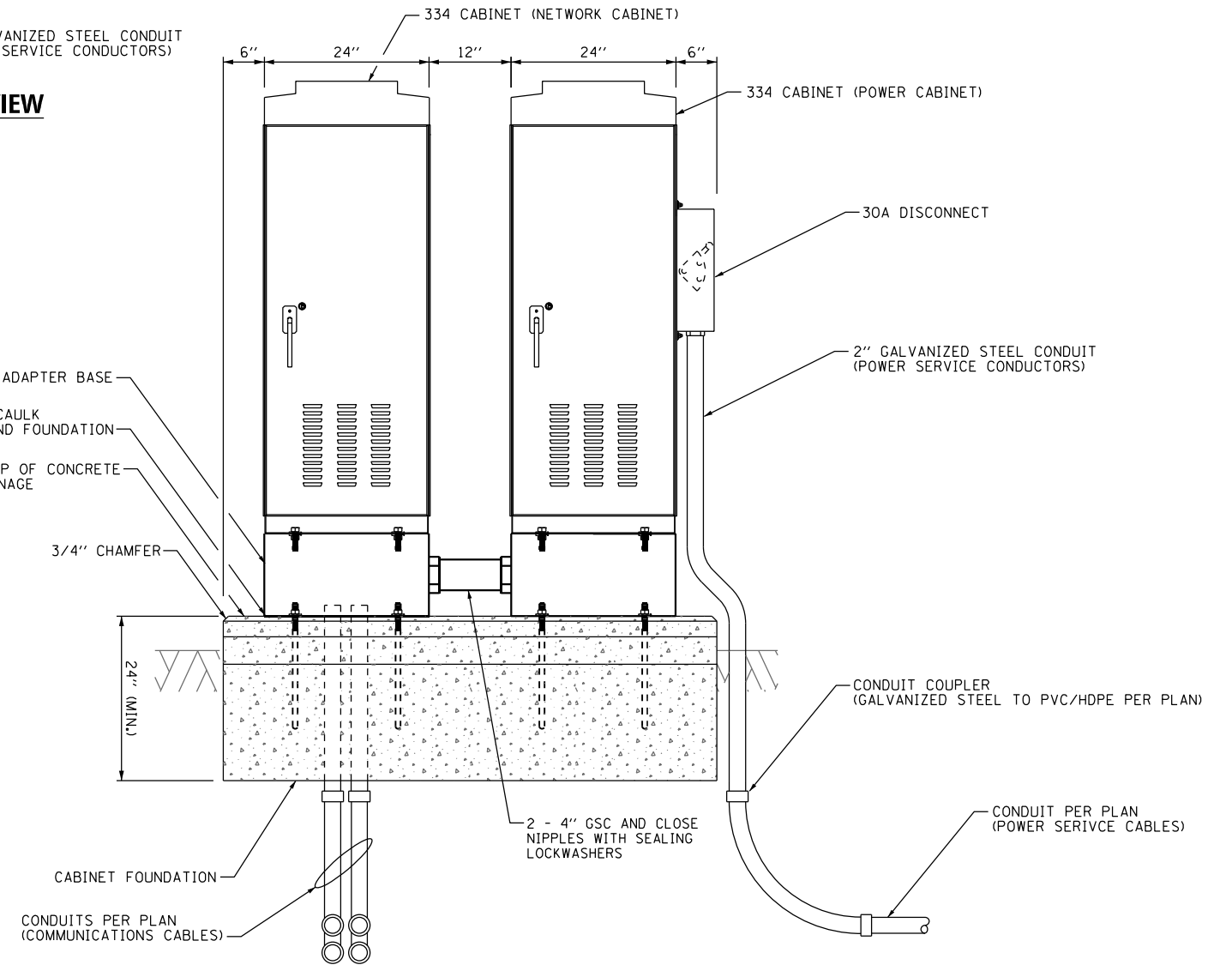
**NODE CABINET PLAN VIEW**

**NOTES:**

1. ADJUST THE ELEVATIONS AND DEPTH OF CONCRETE FOOTPADS AND FOUNDATION TO MEET THE SITE CONDITIONS. FOUNDATIONS DEPTH SHALL BE A MINIMUM OF 24" BELOW GRADE.
2. COMPACT THE SOIL BENEATH THE CONCRETE FOOTPAD WITH A PLATE COMPACTOR OR OTHER COMPACTION METHOD APPROVED BY THE ENGINEER.
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. COPPER CLAD GROUNDING ROD IN THE CABINET FOUNDATION. INSTALL AN INSULATED #2 GROUND WIRE FROM THE CABINET GROUND BUS TO THE GROUND ROD AND EXOTHERMICALLY BOND THE GROUND WIRE AND BAR.
5. DISCONNECT SWITCH SHALL BE MOUNTED TO THE SIDE OF THE CABINET AND CABLES SHALL ENTER THE CABINET VIA THREADED NIPPLE SEALED AGAINST WATER ENTRY. CABLES SHALL BE ROUTED INTERNALLY TO THE POWER PANEL AND KEPT ISOLATED USING PLASTIC RACEWAY. ALL PENETRATIONS INTO THE CABINET FOR MOUNTING THE DISCONNECT SHALL BE SEALED TO THE SATISFACTION OF THE ENGINEER.
6. ANCHOR BOLT PLACEMENT SHALL BE COORDINATED WITH CABINET MANUFACTURER.



**NODE CABINET ELEVATION VIEW (SIDE)**



**NODE CABINET ELEVATION VIEW (FRONT)**

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 1-94\_U.S.-41\C9226600\700-00\04\7131r\06\62079 (Fiber)\Node Cabinet.dgn

**Jacobs**

USER NAME = zvolanjj	DESIGNED - JJZ -	REVISED -
PLOT SCALE =	DRAWN - HAR -	REVISED -
PLOT DATE = 2/27/2020	CHECKED - CRH -	REVISED -
	DATE - 02/28/2020	REVISED -

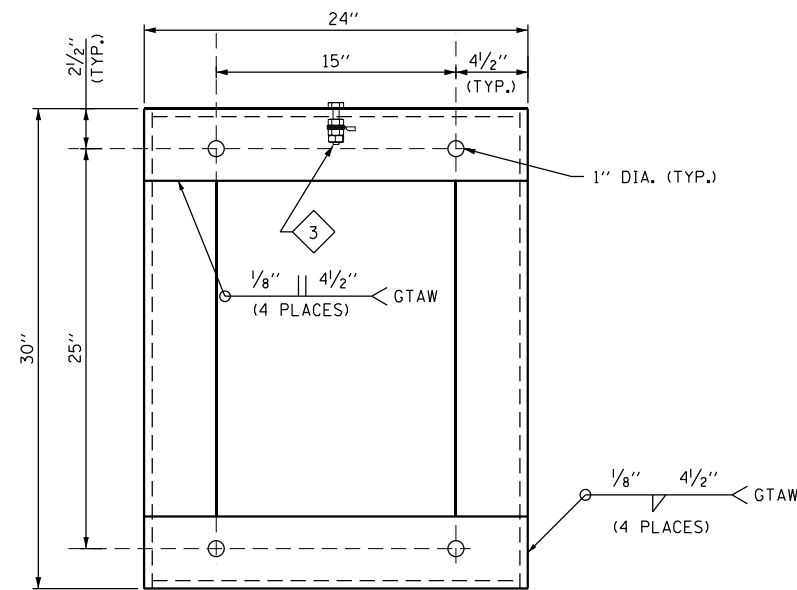
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EQUIPMENT CABINET AND FOUNDATION DETAIL  
IDOT ITS NODE SITE**

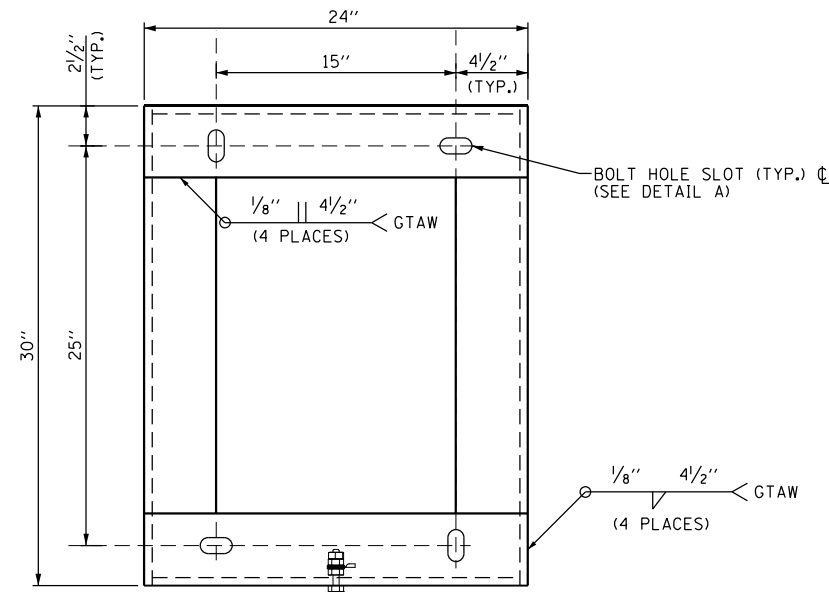
SCALE: NTS SHEET 8 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-06BI	COOK/LAKE	388	191
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	

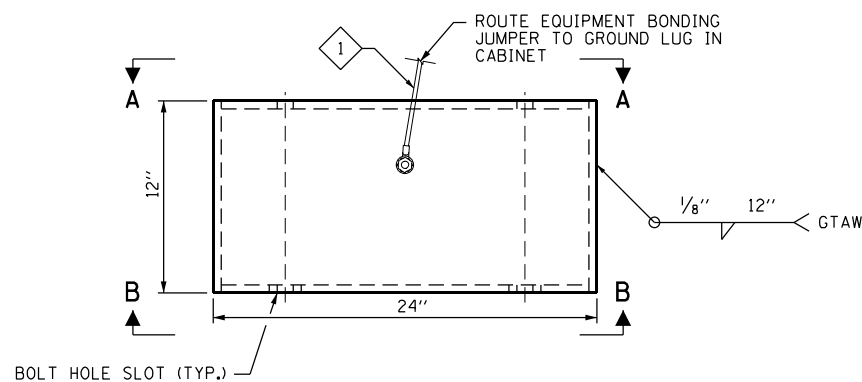
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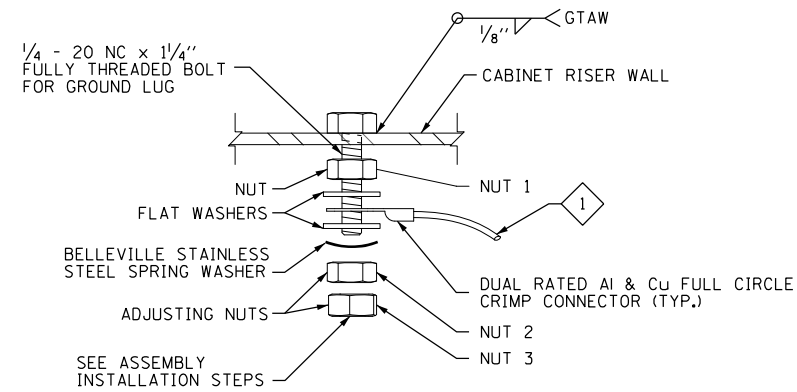
**SECTION A-A**



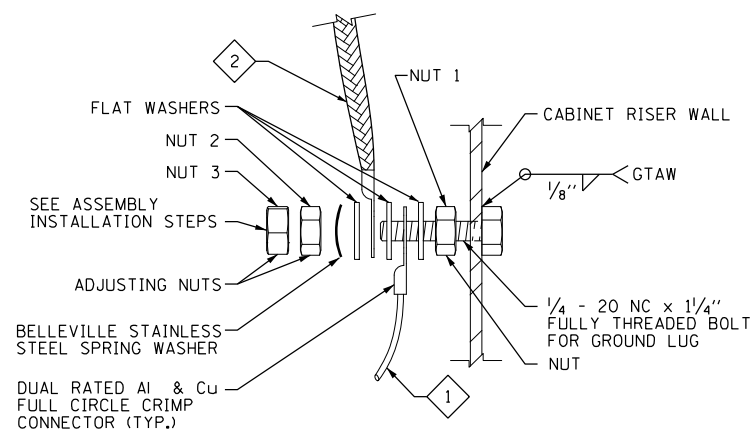
**SECTION B-B**



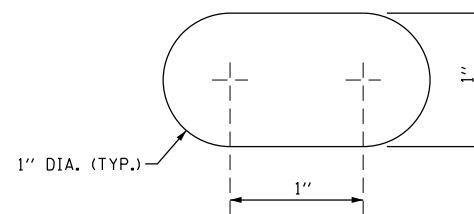
**334 CABINET RISER ADAPTER BASE - ELEVATION VIEW**



**SINGLE BONDING JUMPER CONNECTION DETAIL\*\***



**DOUBLE BONDING JUMPER CONNECTION DETAIL\*\***



**DETAIL A**

**NOTES:**

- COORDINATE CABINET BOLT PATTERN WITH BASE ADAPTER RISER PATTERN PRIOR TO FABRICATION.
- GROOVE SIZE AND FILLET SIZE ARE EQUAL TO MATERIAL THICKNESS.
- ALL HARDWARE SHALL BE STAINLESS STEEL.
- ALL WELDING SHALL BE GAS TUNGSTEN ARC WELDED (GTAW).
- EQUIPMENT BONDING JUMPER SHALL BE #8 AWG (MIN.) x 1' (FT) OF TINNED, BRAIDED COPPER.
- PLACE A 1/2" (IN) BEAD OF SILICONE BETWEEN CABINET RISER AND FOUNDATION. PLACE A 1/2" (IN) BEAD OF SILICONE BETWEEN CABINET RISER AND CABINET.
- CABINET RISER SHALL BE CONSTRUCTED FROM 1/8" SHEET ALUMINUM (5052-H32), MINIMUM THICKNESS. EXTRUDED CHANNEL OR FORMED CHANNEL MAY BE SUBSTITUTED FOR WELDED PLATE.
- MAINTAIN SURFACE FLATNESS OF +/- 0.05 AT MATING SURFACES.

**KEY NOTES:**

- 1 EQUIPMENT BONDING JUMPER
- 2 EQUIPMENT BONDING JUMPER (SEE NOTE 5)
- 3 SINGLE BONDING JUMPER CONNECTION ☐ SEE SINGLE BONDING JUMPER CONNECTION DETAIL
- 4 DOUBLE BONDING JUMPER CONNECTION ☐ SEE DOUBLE BONDING JUMPER CONNECTION DETAIL

\* BOLTS, NUTS, AND WASHERS ☐  
ASTM F593 OR A193  
TYPE 304 OR TYPE 316  
STAINLESS STEEL (S.S.)

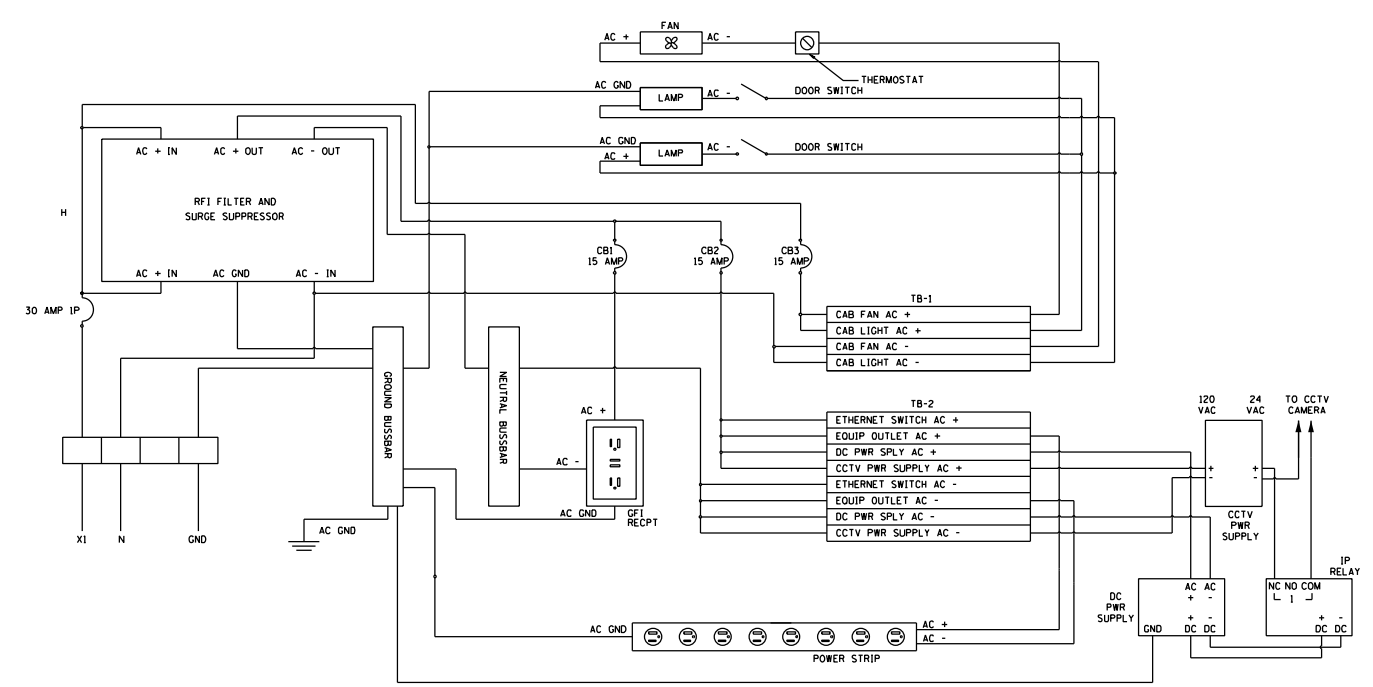
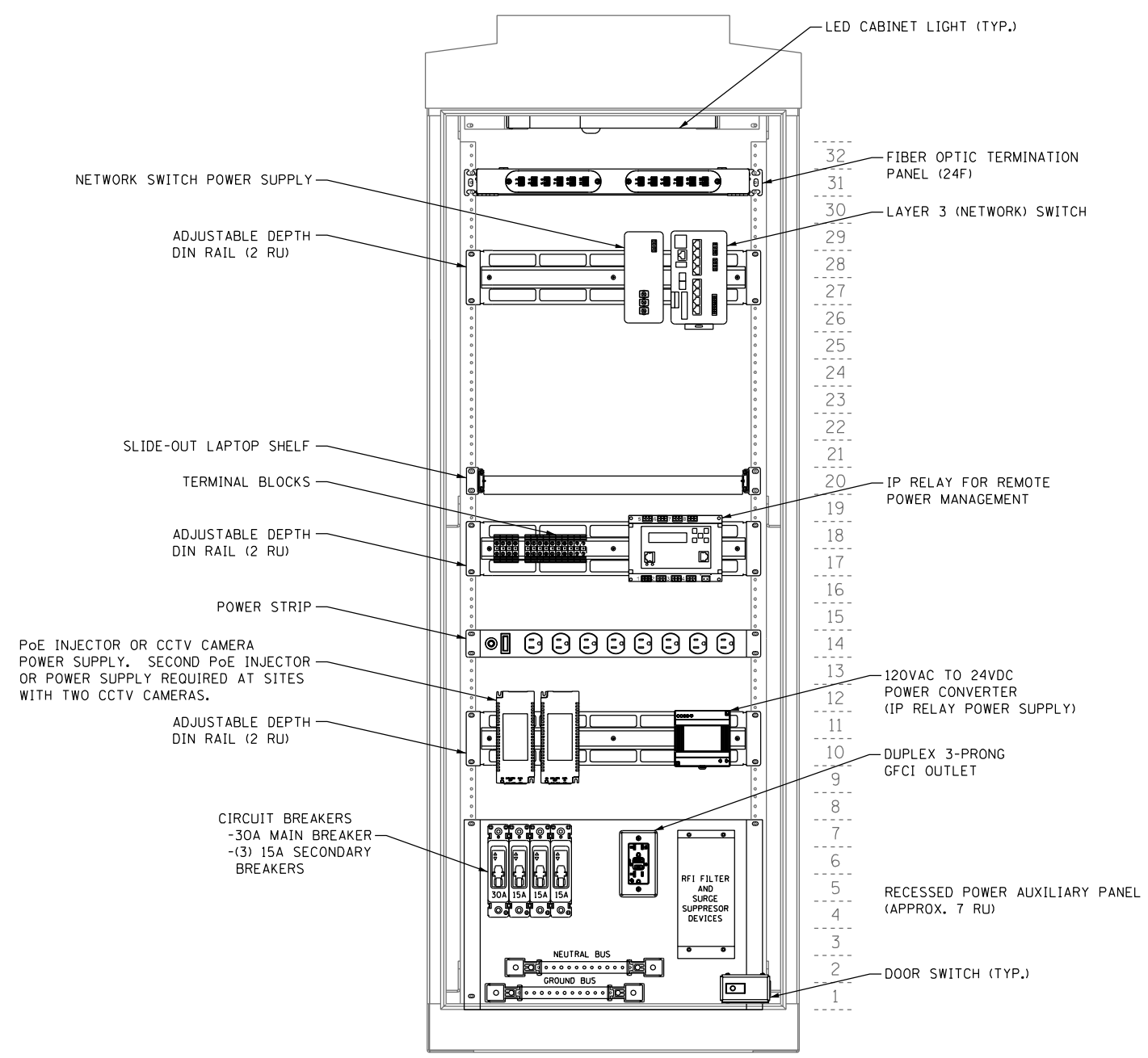
\*\* AA = ALUMINUM ALLOY  
BOLT - AA2024-T4 OR AA 2024-T351  
NUT - AA6061-T6  
WASHER - AA7075-T6

**ASSEMBLY INSTALLATION STEPS:**

- LIBERALLY COAT THREADS WITH ANTI-OXIDANT COMPOUND
- SNUG NUT 1 AGAINST BACK WALL
- INSTALL FLAT WASHERS AND FULL CIRCLE CRIMP CONNECTOR(S)
- WITH WRENCH ON NUT 1 AND NUT 2, SNUG NUT 2 TO NUT 1 ☐ TIGHTEN UNTIL THE BELLEVILLE SPRING WASHER IS FULLY COMPRESSED AND NO FURTHER
- WITH WRENCH ON NUT 2 AND NUT 3, SNUG NUT 3 TO NUT 2
- LIBERALLY COAT THIS ASSEMBLY WITH ANTI-OXIDANT COMPOUND



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**CABINET POWER DISTRIBUTION SINGLE LINE DIAGRAM**

- NOTES:
- CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL CABINET LAYOUT. AUXILIARY PANEL SIZING SHALL BE COORDINATED WITH CABINET MANUFACTURER.
  - CABINET FAN AND THERMOSTAT NOT SHOWN FOR CLARITY. CABINET MANUFACTURER SHALL DETERMINE FINAL LOCATIONS.
  - POWER DISTRIBUTION SINGLE LINE DIAGRAM SHOWS POWER CONFIGURATION FOR CCTV CAMERAS WITH SEPARATE POWER SUPPLY. CONTRACTOR SHALL ADJUST POWER WIRING AS REQUIRED FOR A POE CCTV CAMERA.

**CCTV CAMERA SITE SUGGESTED CABINET LAYOUT**



USER NAME = zvolanjj	DESIGNED - KFA	REVISED -
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	DATE - 02/28/2020	REVISED -

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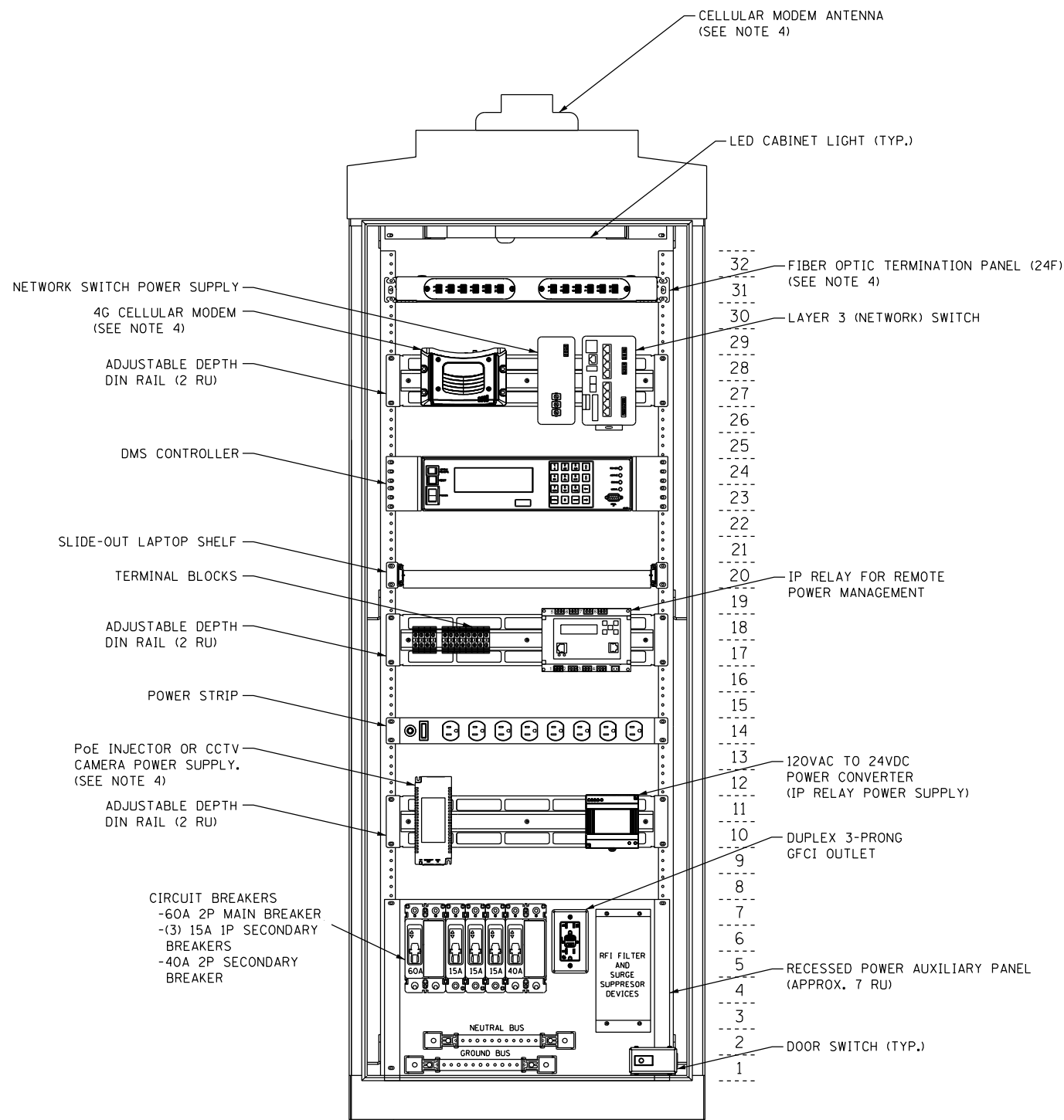
**CCTV CAMERA CABINET RACK LAYOUT DETAIL**

SCALE: NTS SHEET 10 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	193
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

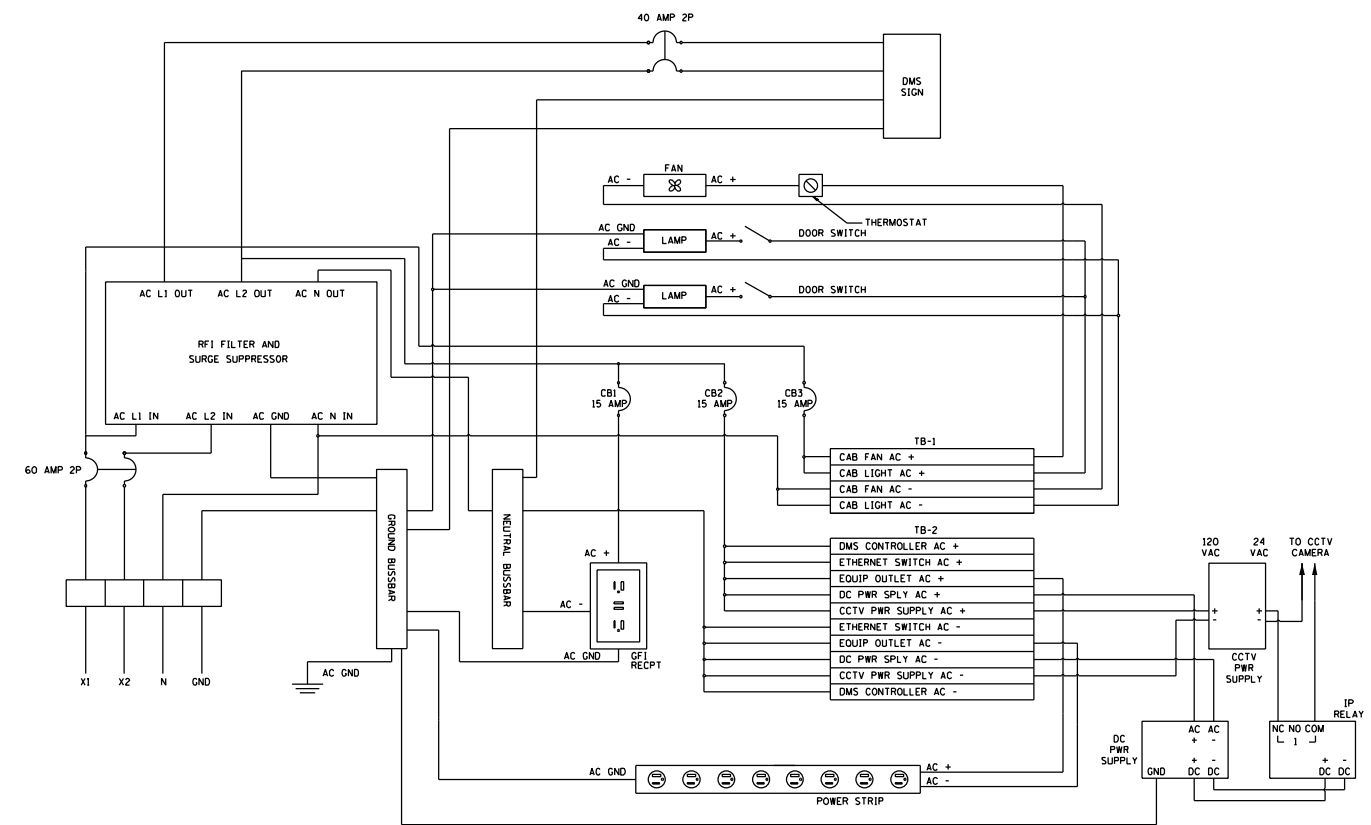
DET-10

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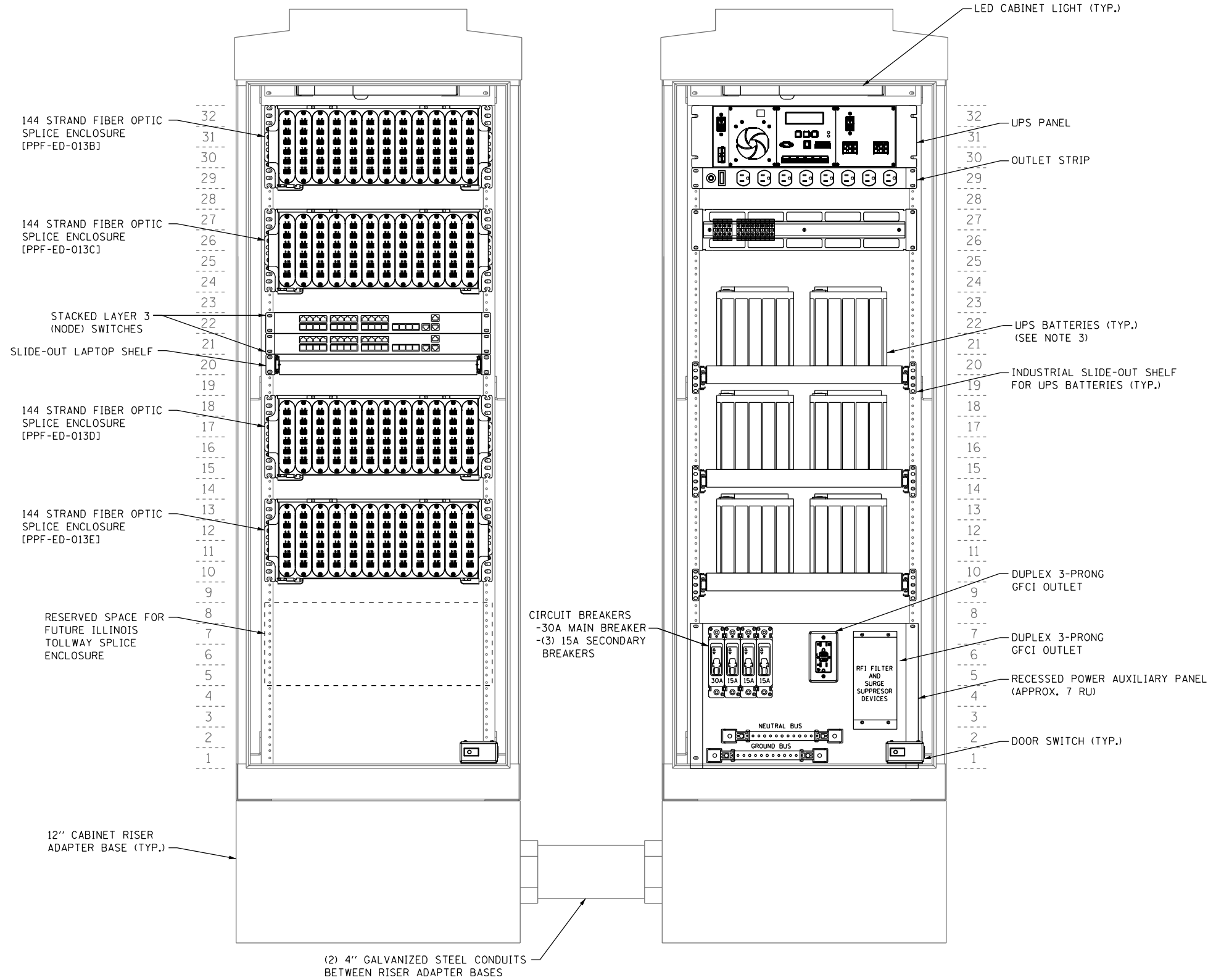
**DMS SITE SUGGESTED CABINET LAYOUT**

- NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL CABINET LAYOUT. AUXILIARY PANEL SIZING SHALL BE COORDINATED WITH CABINET MANUFACTURER.
  - CABINET FAN AND THERMOSTAT NOT SHOWN IN CABINET LAYOUT FOR CLARITY. CABINET MANUFACTURER SHALL DETERMINE FINAL LOCATIONS.
  - POWER DISTRIBUTION SINGLE LINE DIAGRAM SHOWS POWER CONFIGURATION FOR CCTV CAMERAS WITH SEPARATE POWER SUPPLY. CONTRACTOR SHALL ADJUST POWER WIRING AS REQUIRED FOR A POE CCTV CAMERA.
  - EQUIPMENT SHOWN IN CABINET VARIES BY LOCATION. NOT ALL ELEMENTS SHOWN IN THE CABINET LAYOUT ARE INSTALLED IN EACH CABINET. SEE DMS SITE PLANS FOR EQUIPMENT TO BE INSTALLED AT EACH SITE.



**CABINET POWER DISTRIBUTION SINGLE LINE DIAGRAM**

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- NOTES:
- CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL CABINET LAYOUT. AUXILIARY PANEL SIZING SHALL BE COORDINATED WITH CABINET MANUFACTURER.
  - CABINET FAN AND THERMOSTAT NOT SHOWN FOR CLARITY. CABINET MANUFACTURER SHALL DETERMINE FINAL LOCATIONS.
  - CONFIGURATION SHOWN ASSUMES (4) 12V BATTERIES ARRAYED IN SERIES PER SHELF. THE CONTRACTOR SHALL DETERMINE THE SIZE, TYPE, QUANTITY, AND VOLTAGE OF THE BATTERY ARRAY USED AS PART OF THE UPS SYSTEM THAT MEETS THE RUNTIME REQUIREMENTS PROVIDED IN THE SPECIAL PROVISIONS.
  - SEE SHEET DET-13 FOR NODE CABINET POWER DISTRIBUTION SINGLE LINE DIAGRAM.

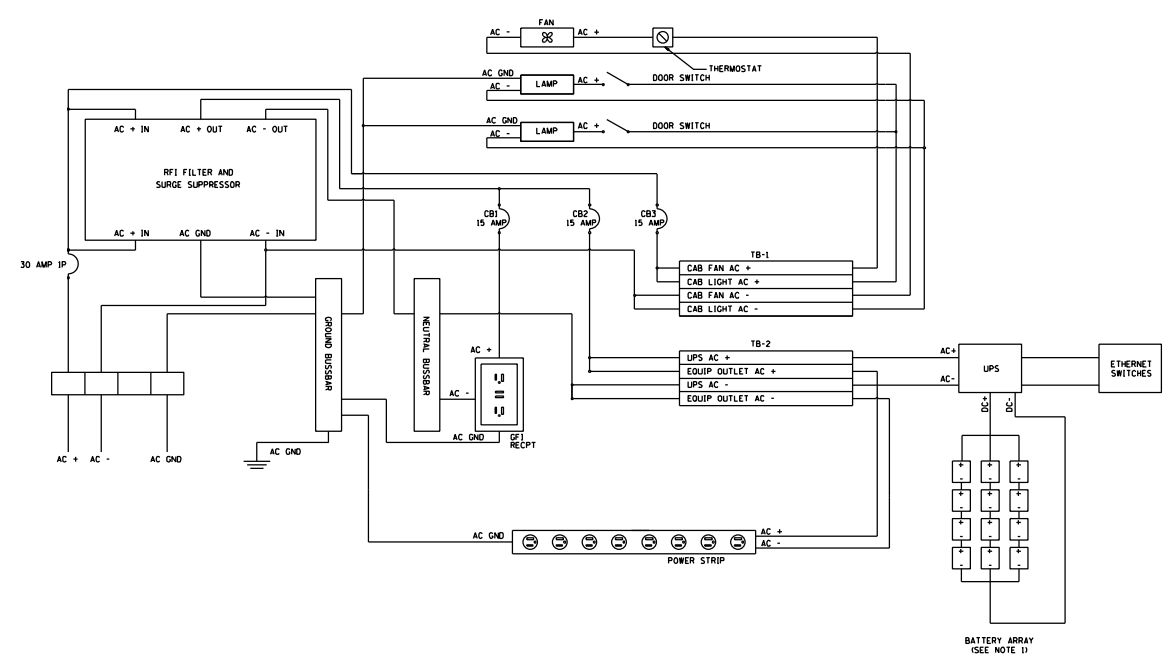
**NETWORK CABINET LAYOUT**                      **POWER CABINET LAYOUT**

**SUGGESTED NODE CABINET LAYOUTS**

DET-12

	USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>NODE CABINET RACK LAYOUT DETAIL</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - CRH	REVISED -				94	2016-068I	COOK/LAKE	388	195
	PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -			SCALE: NTS SHEET 12 OF 23 SHEETS STA. TO STA.		CONTRACT NO. 62079		ILLINOIS FED. AID PROJECT	

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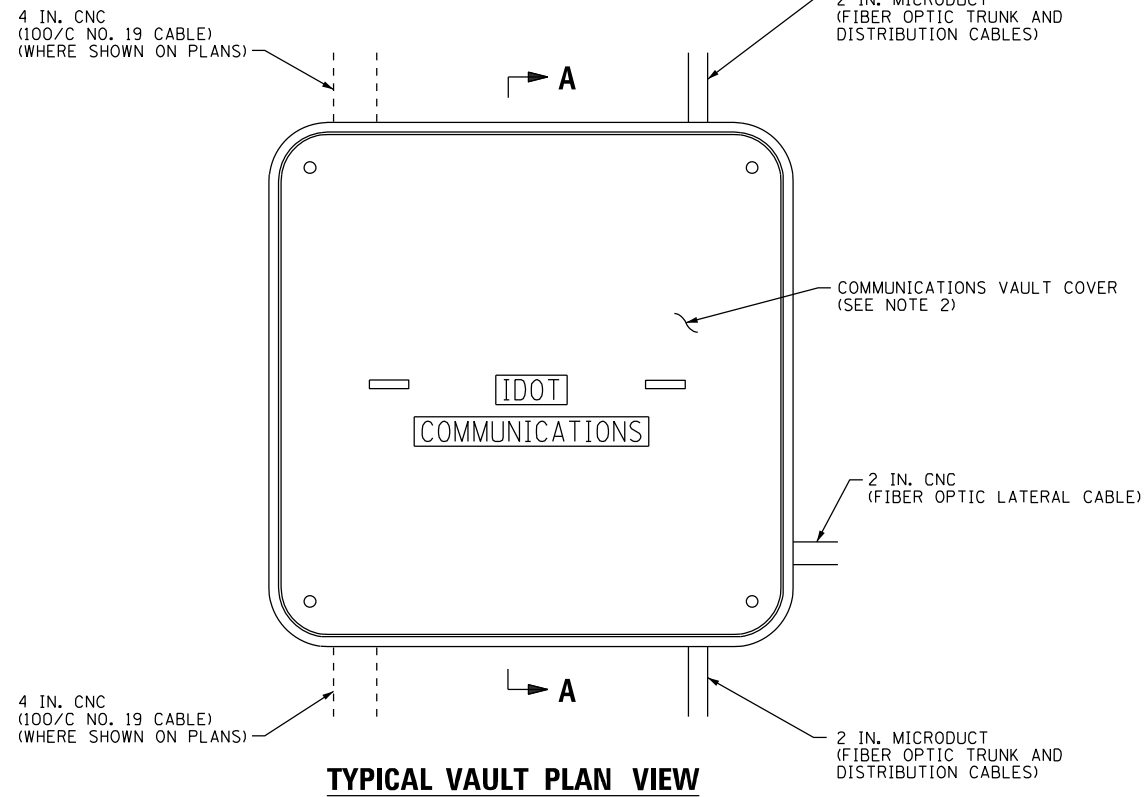
**NODE CABINET SINGLE LINE WIRING DIAGRAM**

NOTES:  
 1. CONFIGURATION SHOWN ASSUMES (4) 12V BATTERIES ARRAYED IN SERIES PER SHELF. THE CONTRACTOR SHALL DETERMINE THE SIZE, TYPE, QUANTITY, AND VOLTAGE OF THE BATTERY ARRAY USED AS PART OF THE UPS SYSTEM THAT MEETS THE RUNTIME REQUIREMENTS PROVIDED IN THE SPECIAL PROVISIONS.

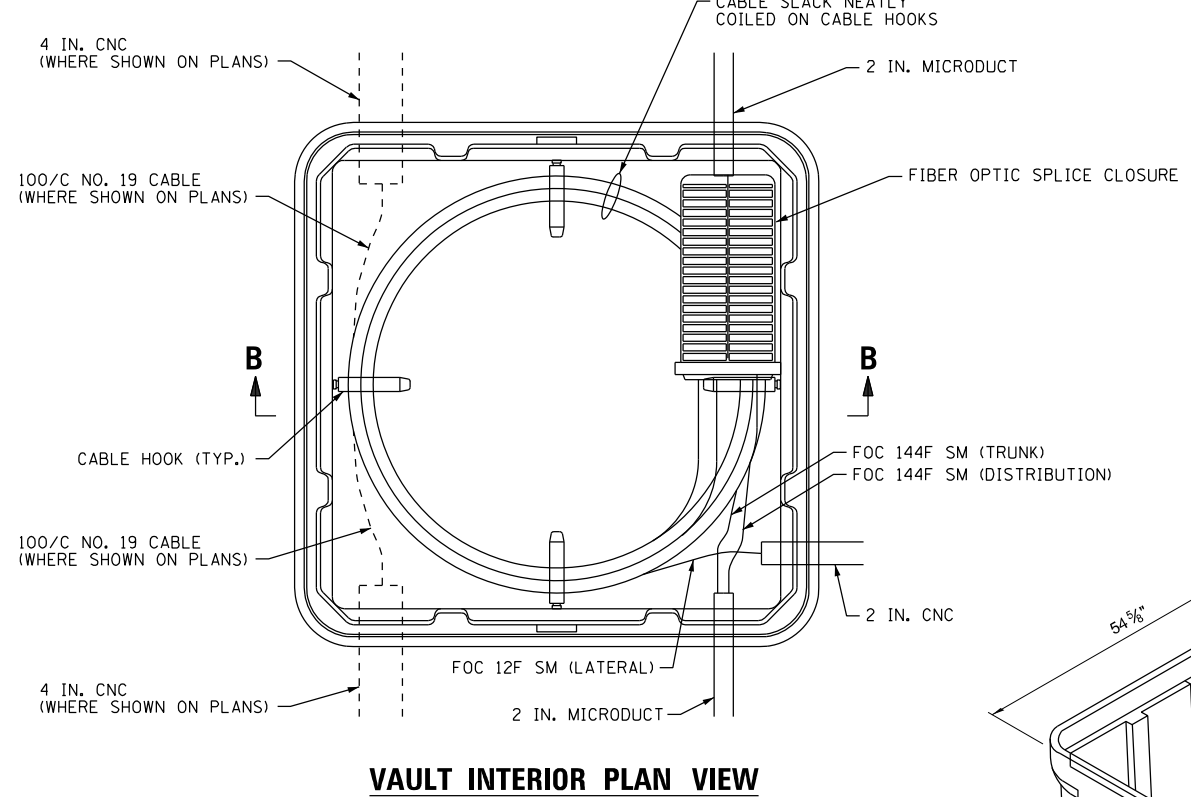
DET-13

<b>Jacobs</b>	USER NAME = zvolanjj	DESIGNED - KFA	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>NODE CABINET WIRING DIAGRAM</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - CRH	REVISED -			94	2016-068I	COOK/LAKE	388	196
	PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -			CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	

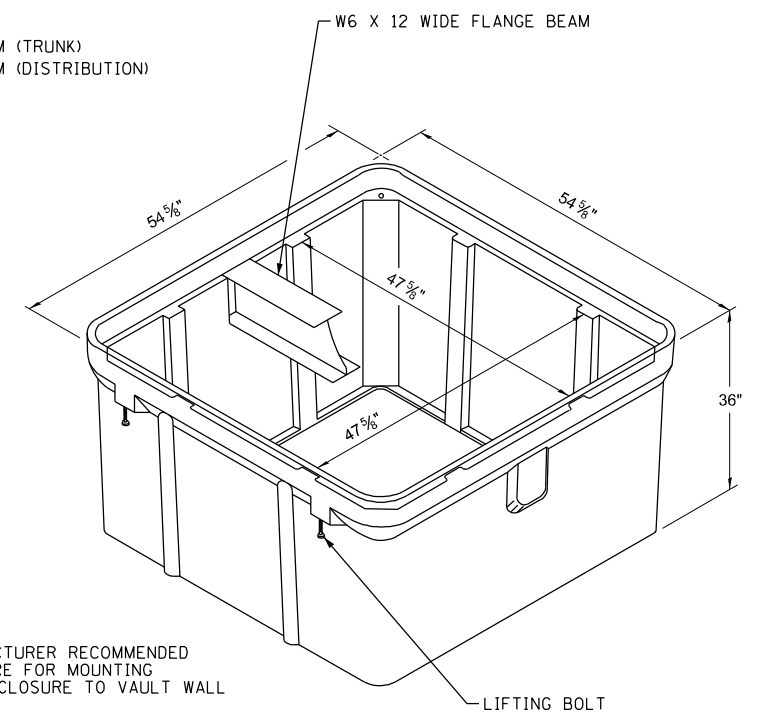
SCALE: NTS SHEET 13 OF 23 SHEETS STA. TO STA.



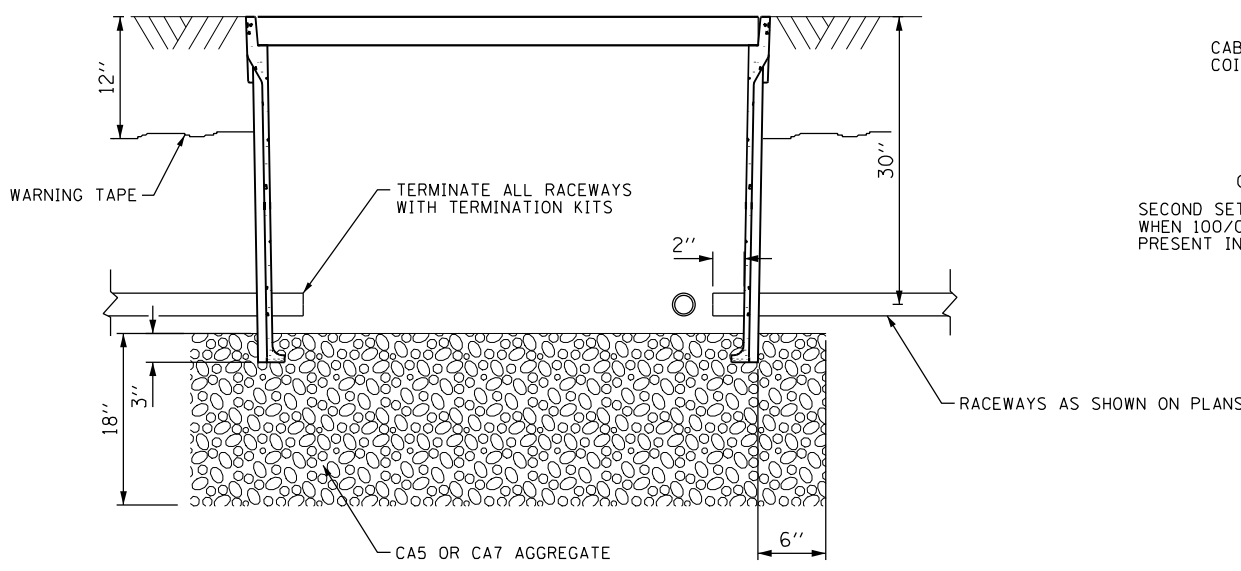
**TYPICAL VAULT PLAN VIEW**



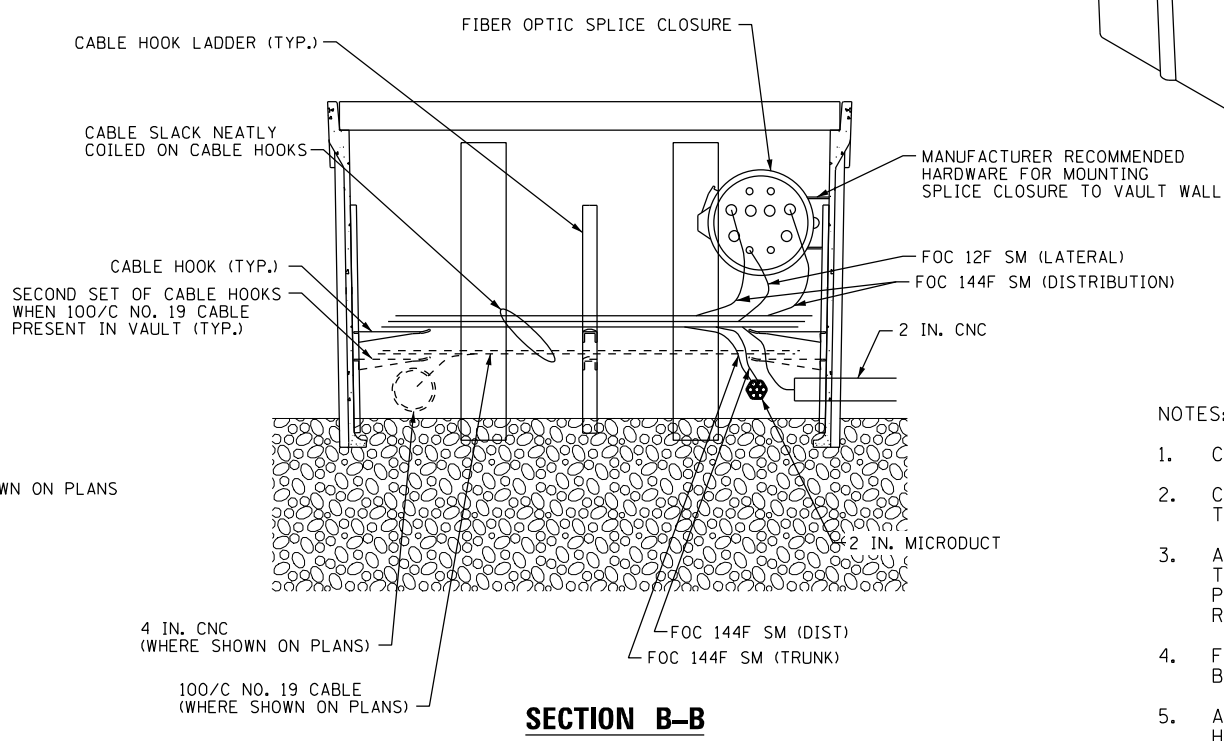
**VAULT INTERIOR PLAN VIEW**



**ISOMETRIC VIEW**



**SECTION A-A**



**SECTION B-B**

- NOTES:
1. COMMUNICATIONS VAULT SHALL HAVE AN OPEN BASE.
  2. COVER SHALL BE PLACED AS TO RECESS INTO VAULT TO PREVENT LATERAL MOVEMENT
  3. ALL OPENINGS IN STRUCTURE SHALL BE MACHINED AT TIME OF FABRICATION OR PUNCH DRIVEN AT TIME OF PLACEMENT. IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
  4. FIELD PLACEMENT OF COMMUNICATIONS VAULT SHALL BE AS DIRECTED BY THE ENGINEER.
  5. ALL DIMENSIONS ARE MINIMUM AND A LARGER SIZE HANDHOLE MAY BE USED, WITH THE APPROVAL OF THE ENGINEER, TO FACILITATE USING A MANUFACTURER'S STANDARD PRODUCT.
  6. ALL SPARE DUCTS OR MICRODUCTS SHALL BE PLUGGED WITH MANUFACTURER APPROVED DUCT PLUGS AFTER PLACEMENT IN VAULTS.

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**Jacobs**

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PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**COMMUNICATIONS VAULT, COMPOSITE CONCRETE**

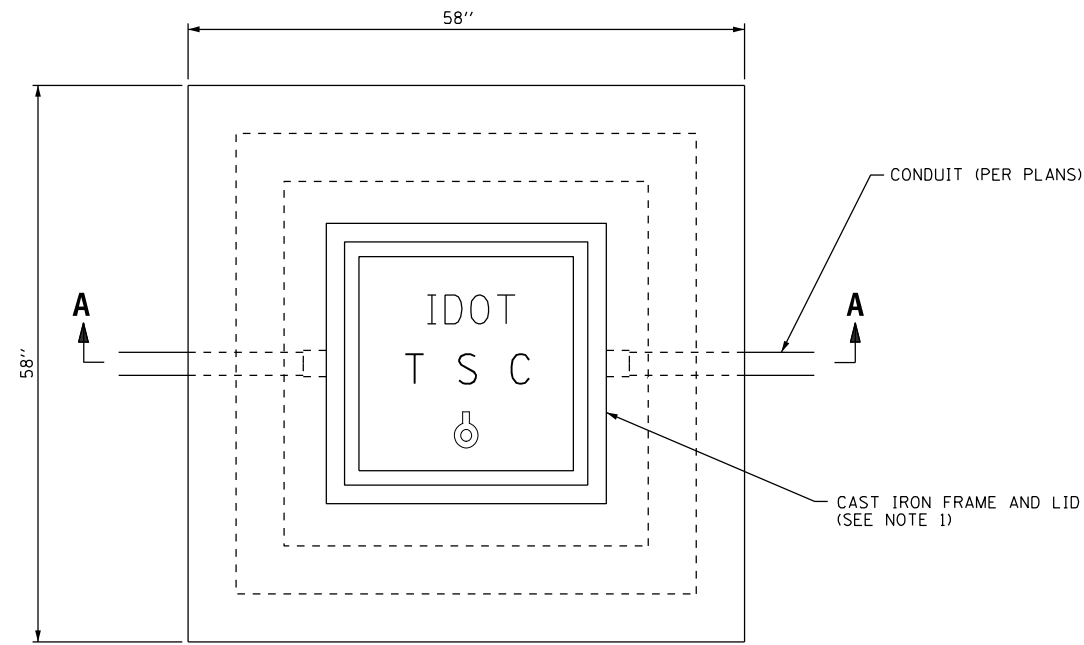
SCALE: NTS SHEET 14 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	197
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

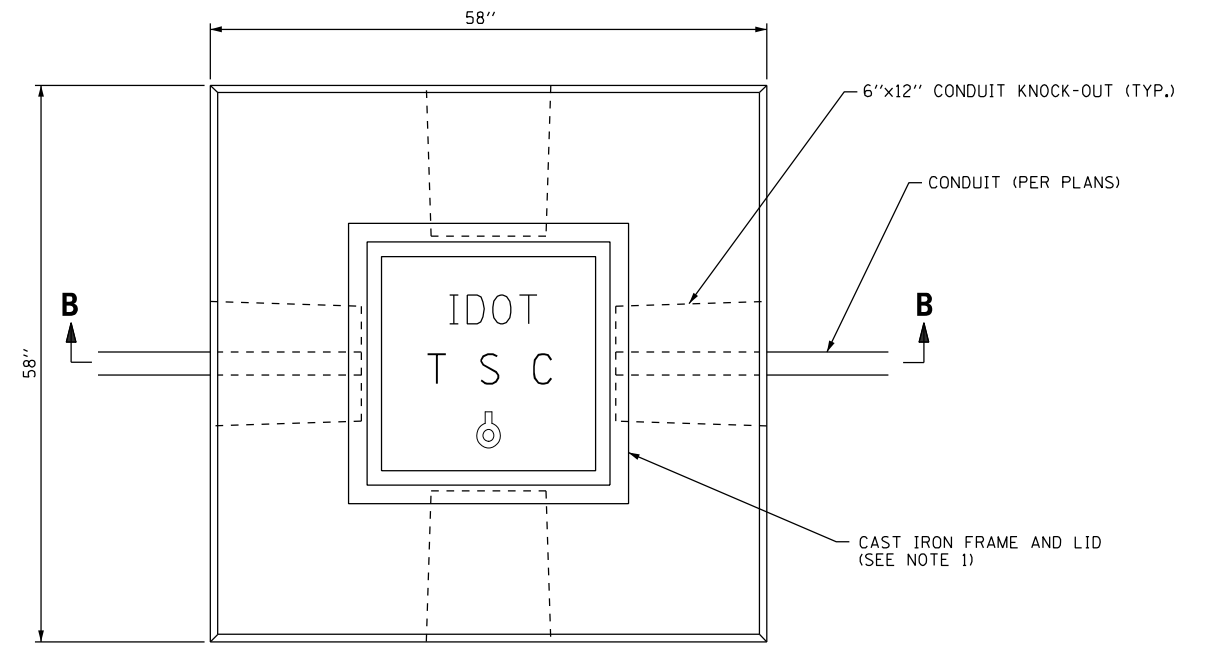
DET-14

**NOTES:**

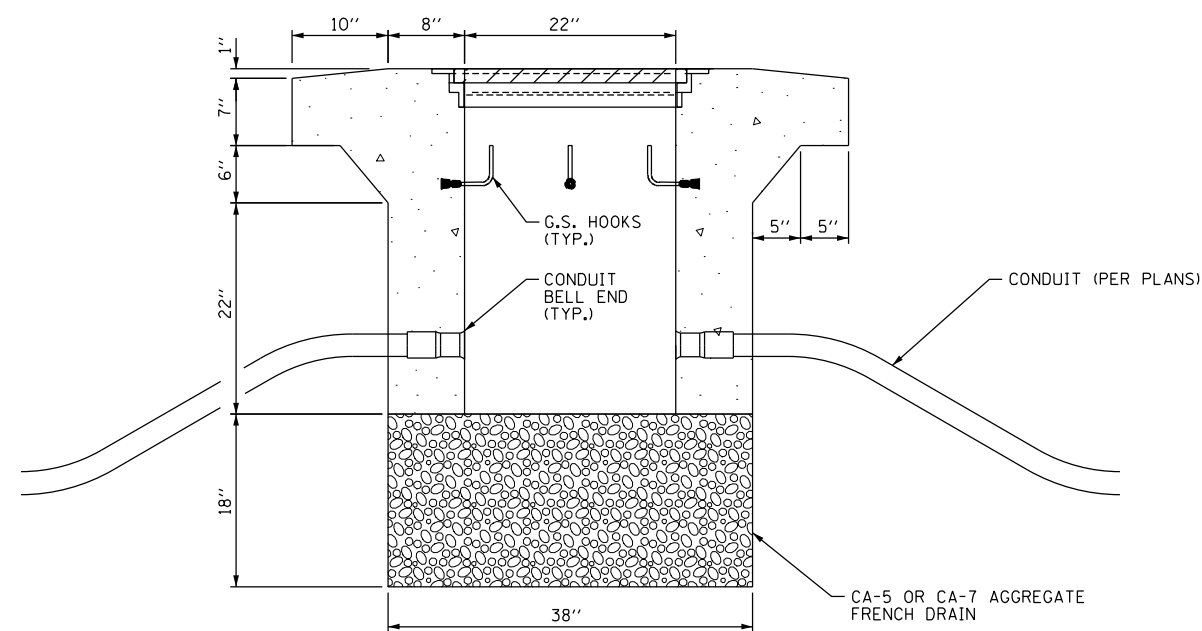
- HANDHOLES USED FOR POWER SERVICE CABLES SHALL BE LABELED "IDOT ELECTRICAL". HANDHOLES USED FOR COMMUNICATIONS CABLES SHALL BE LABELED "IDOT TSC".
- CONTRACTOR MAY INSTALL EITHER CAST-IN-PLACE OR PRECAST HANDHOLES. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLING HANDHOLES.
- CONDUITS ENTERING HANDHOLES SHALL BE FITTED WITH BELL ENDS OR SHALL BE TREATED TO BE SMOOTH AND FREE OF BURRS OR OTHER IMPERFECTIONS THAT MAY DAMAGE CABLES UPON INSTALLATION.



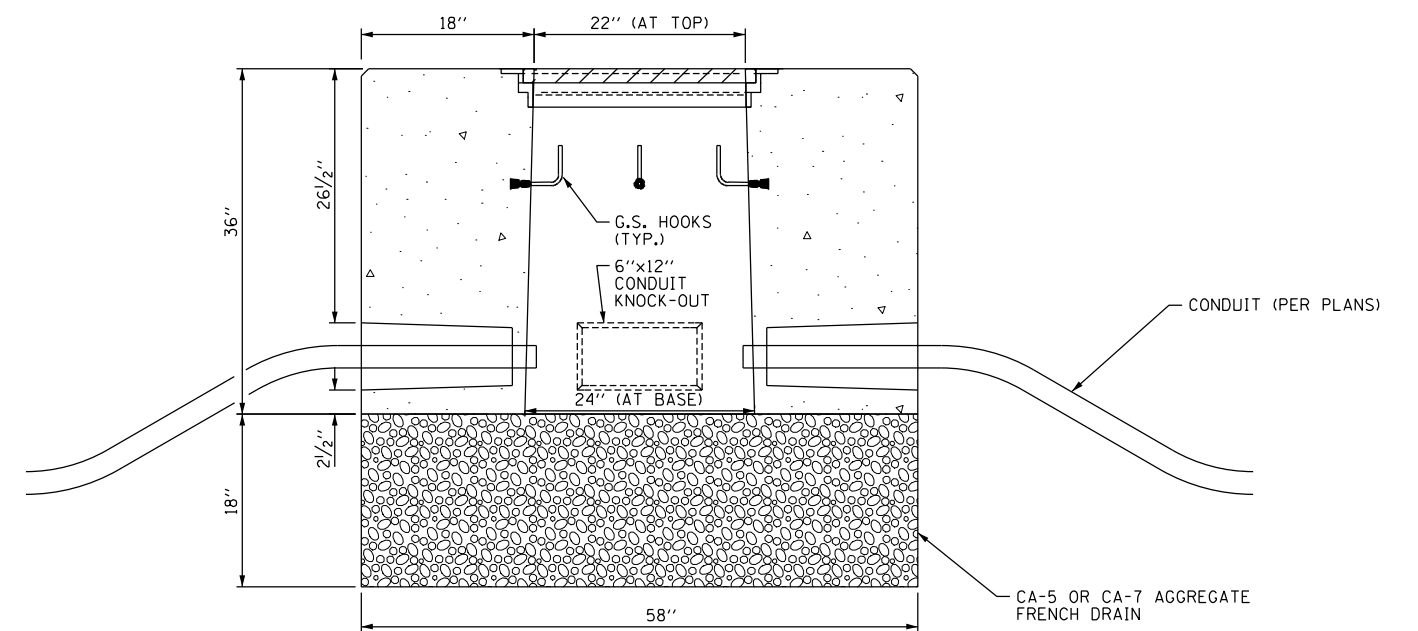
**CAST-IN-PLACE HEAVY DUTY HANDHOLE**



**PRECAST HEAVY DUTY HANDHOLE**



**SECTION A-A**



**SECTION B-B**

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PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

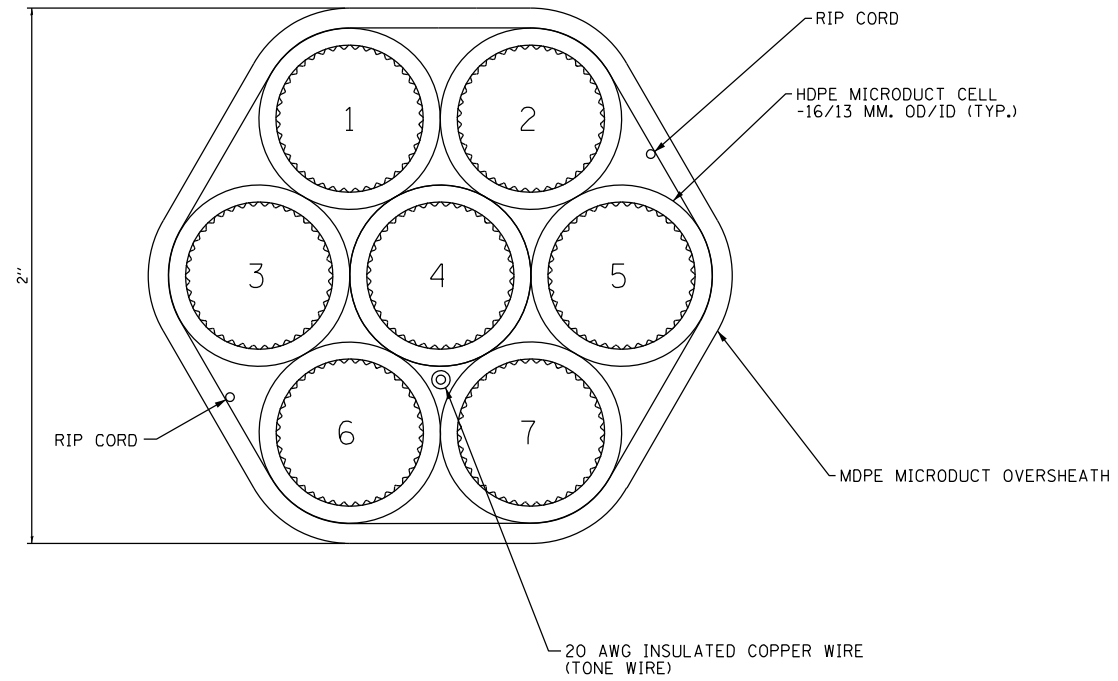
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PCC CONCRETE - HEAVY DUTY HANDHOLE**

SCALE: NTS SHEET 15 OF 23 SHEETS STA. TO STA.

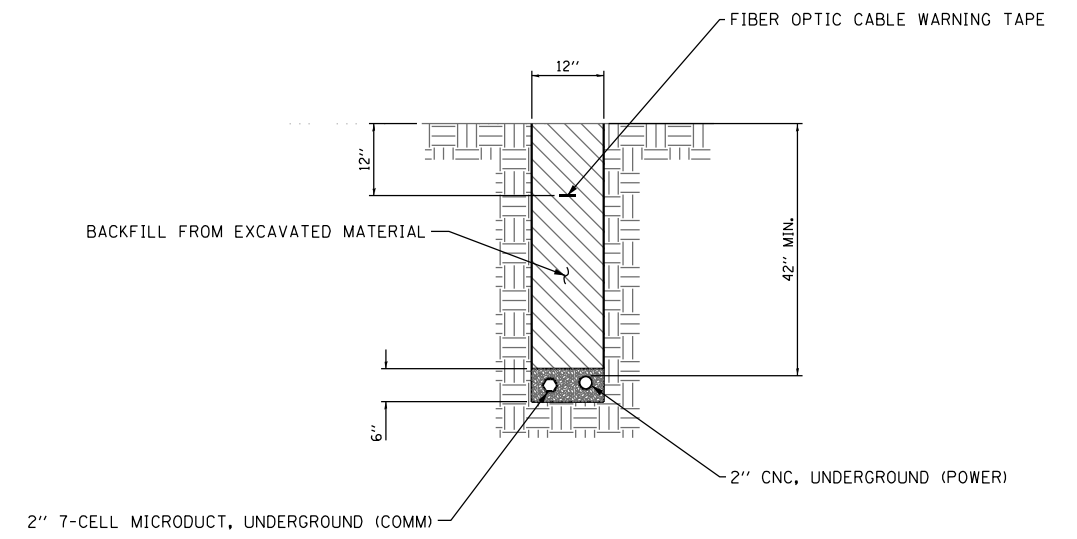
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	198
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				

DET-15

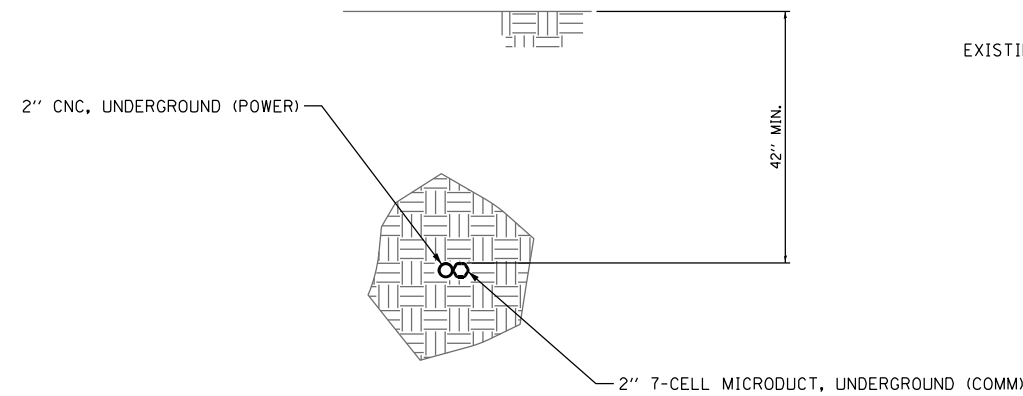


**7-CELL MICRODUCT DETAIL**

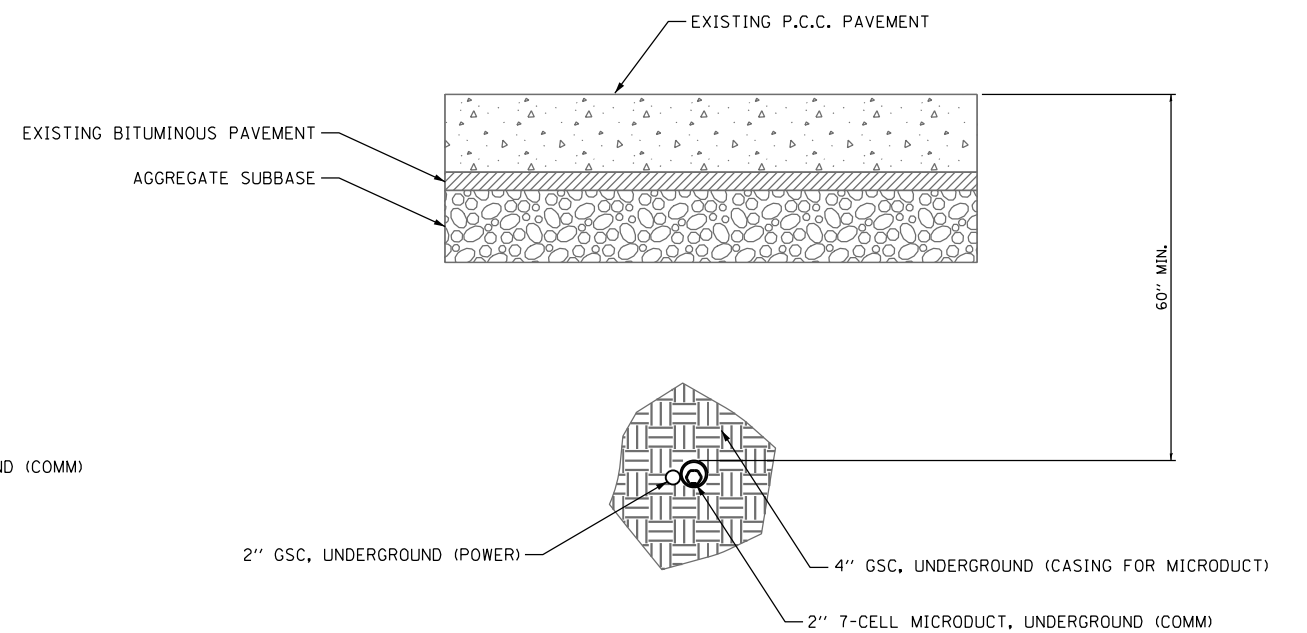
CELL NO.	CELL COLOR	CELL ALLOCATION
1	BLUE	144F IDOT (TCF)
2	ORANGE	144F IDOT (DCF)
3	GREEN	SPARE
4	BROWN	SPARE
5	GREY	SPARE
6	WHITE	SPARE
7	RED	SPARE



**CONDUIT IN TRENCH**



**BORED CONDUIT IN UNPAVED AREAS**



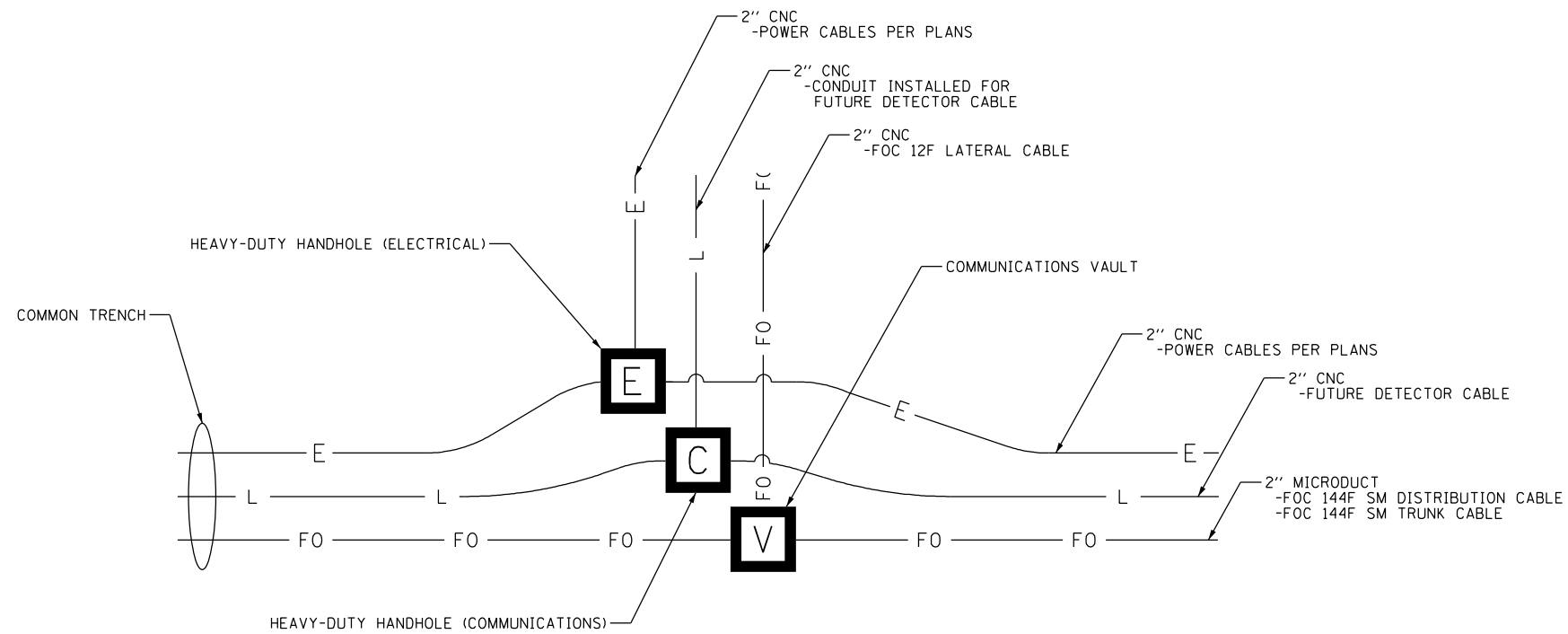
**BORED CONDUIT UNDER ROADWAY**

- NOTES:  
 1. CONDUITS FOR COMMUNICATIONS AND POWER ARE NOT NECESSARILY INSTALLED TOGETHER. INSTALLATION CONFIGURATION VARIES BY LOCATION.

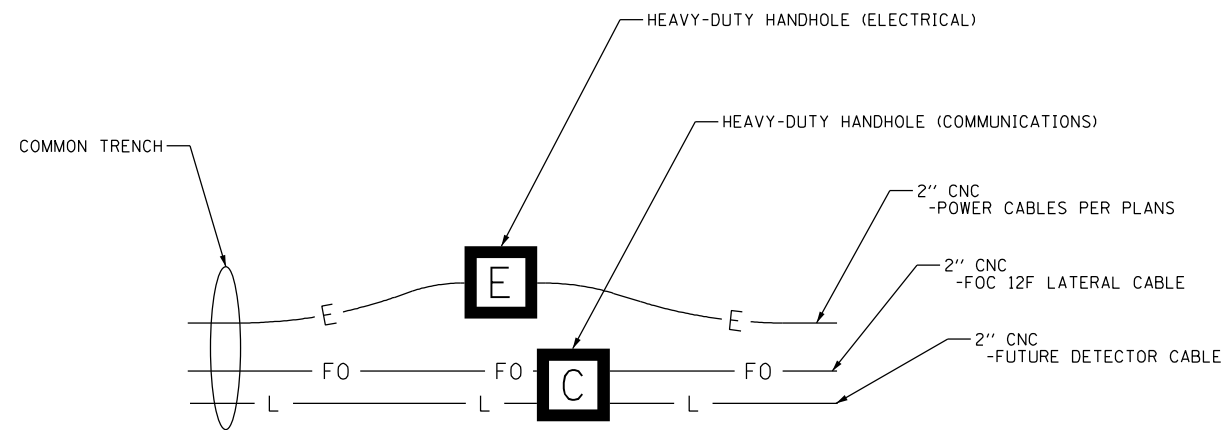
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PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	199
CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	



**TYPICAL BACKBONE CONDUIT ROUTING AT LATERAL LOCATIONS**



**BRANCH LATERAL TO ITS CABINET**

- NOTES:
1. POWER CONDUCTORS SHALL NOT ENTER PROPOSED COMMUNICATIONS VAULTS OR HEAVY-DUTY COMMUNICATIONS HANDHOLES.
  2. POWER AND COMMUNICATIONS CONDUITS MAY BE INSTALLED IN COMMON TRENCH.

DET-17

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USER NAME = zvolanjj	DESIGNED - JJZ	REVISED -
	DRAWN - HAR	REVISED -
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 2/27/2020	DATE - 02/28/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONDUIT INSTALLATION DETAILS  
SHEET 2 OF 2**

SCALE: NTS SHEET 17 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-068I	COOK/LAKE	388	200
CONTRACT NO. 62079				
ILLINOIS FED. AID PROJECT				