

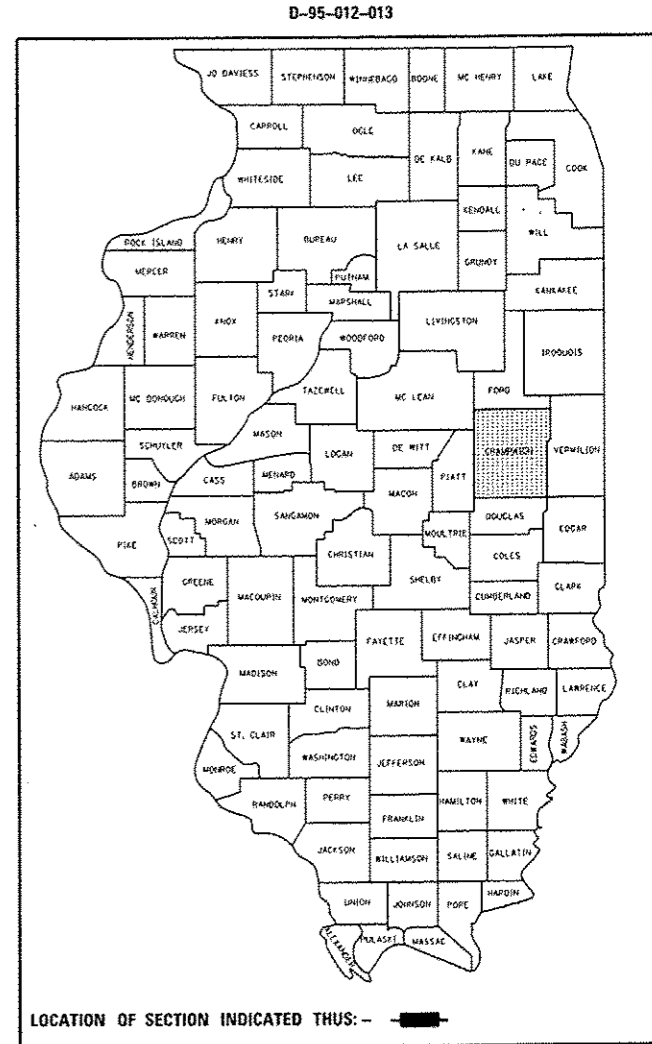
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	1
		ILLINOIS	CONTRACT NO. 70A26	

FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3-7

**PROPOSED  
HIGHWAY PLANS**

VARIOUS ROUTES  
SECTION FY2014 ITS-1  
CHANGEABLE MESSAGE SIGNS SURVEILLANCE  
CHAMPAIGN COUNTY  
PROJECT: ACHSIP-000S (999)  
C-95-012-13

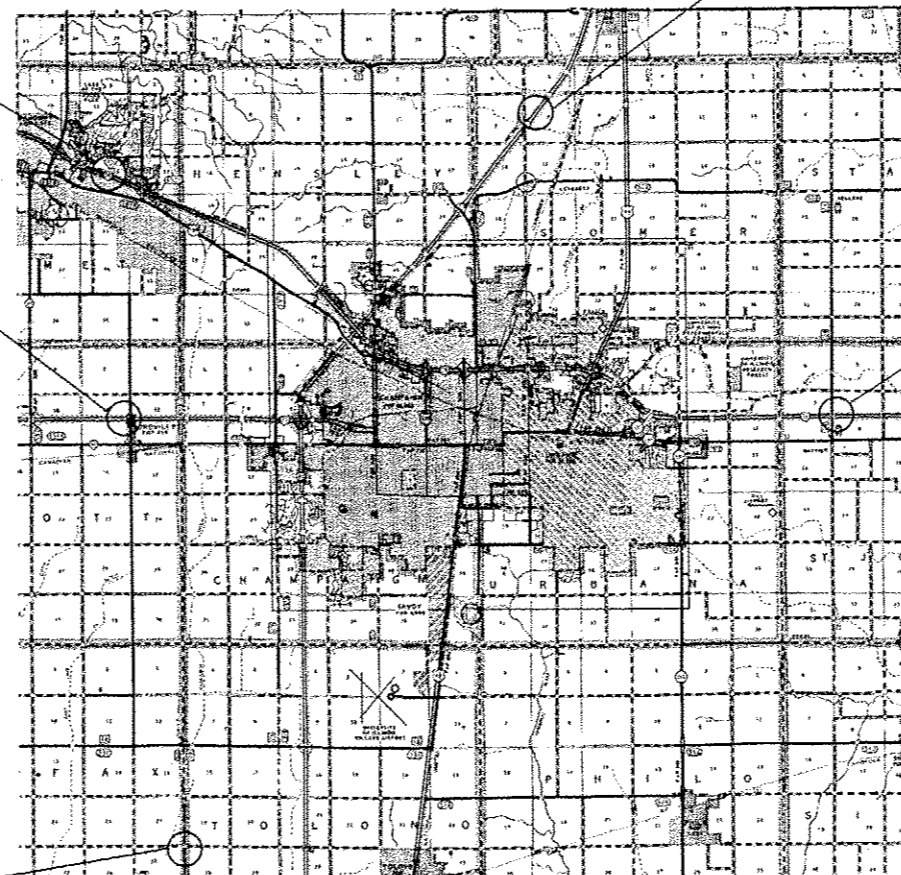


I-74 EASTBOUND  
STA. 1572+00 MM 172.83  
STR. NO. 5 S 010 0174 R172.83

I-57 SOUTHBOUND  
STA. 890+96 MM 242.78  
STR. NO. 5 S 010 1057 L242.78

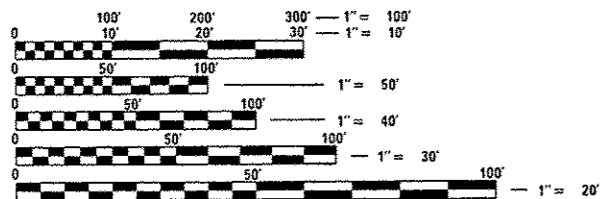
I-72 EASTBOUND  
STA. 1778+15 MM 178.29  
STR. NO. 5 S 010 1072 R178.29

I-74 WESTBOUND  
STA. 593+12 MM 189.05  
STR. NO. 5 S 010 1074L189.05



I-57 NORTHBOUND  
STA. 475+50 MM226.45  
STR. NO. 5 S 010 R226.45

CHAMPAIGN COUNTY



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER JEFF ALLEN  
DESIGNED BY: ROGER BIGGS  
PHONE NUMBER: (217) 465-4181

CONTRACT NO. 70A26

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED JUNE 26 20 14  
*Kensil A. Garnett*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

AUG 15 20 14  
*John D. Baranzoli, P.E.*  
ENGINEER OF DESIGN AND ENVIRONMENT

AUG 15 20 14  
*Omer Osman, P.E.*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

## GENERAL NOTES

G.N. - 100 ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-100A ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

### PLAN SHEET GENERAL NOTES

1. CONNECTIONS TO FIBER OPTIC NETWORKS AT LOCATIONS SHOWN IN THE PLANS SHALL BE DONE BY OTHERS. A MINIMUM OF 50' OF FIBER OPTIC CABLE SLACK SHALL BE COILED IN THE HANDHOLE INDICATED FOR FUTURE CONNECTION.
2. ALL PROPOSED HANDHOLES SHALL BE LOCATED BY THE ENGINEER

## HIGHWAY STANDARDS

Standard	Description
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-09	TRAFFIC BARRIER TERMINAL, TYPE 2
636006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15'(4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701101-04 <del>701106-02</del>	OFF-RD OPERATIONS, MULTILANE, 15'(4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS $\geq$ 45 MPH
701400-07	APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY
701401-08	LANE CLOSURE, FREEWAY / EXPRESSWAY
701502-06	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL TURN LANE
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-03	TRAFFIC CONTROL DEVICES
805001-01	ELECTRIC SERVICE INSTALLATION DETAILS
814001-02	HANDHOLES
830021-02	LIGHT POLE STEEL TENON TOP
836001-02	LIGHT POLE FOUNDATION

## INDEX OF SHEETS

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2	INDEX OF SHEETS, HIGHWAY STANDARDS, & GENERAL NOTES
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11-13	STR# 5 S 010 I057 L242.78 - SIGN TRUSS MOUNTING DETAIL AND SITE PLAN
14-17	STR# 5 S 010 I074 R172.83 - SIGN TRUSS MOUNTING DETAIL AND SITE PLAN
18-19	STR# 5 S 010 I074 L189.05 - SIGN TRUSS MOUNTING DETAIL AND SITE PLAN
20-21	STR# 5 S 010 I074 L178.29 - SIGN TRUSS MOUNTING DETAIL AND SITE PLAN
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41	WINDSOR RD. & HIGHCROSS RD. (IL. 130)
42	UNIVERSITY AVE. (IL. 130 SPUR) & I-74
43	UNIVERSITY AVE. & LINCOLN AVE.
44	SPRINGFIELD AVE. & WRIGHT ST.
45	SPRINGFIELD AVE. - 3RD ST. TO 4TH ST.
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47	NEIL ST. & KIRBY AVE.
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50	I-57 0.5 MI. NORTH OF MARKET ST. - LEVERETTE STORAGE
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53	I-57 & I-72
54	I-57 & CURTIS RD.
55	MATTIS AVE. & CHURCH ST.
56	MATTIS AVE. & BRADLEY AVE.
57	MATTIS AVE. & BLOOMINGTON AVE.
58	SPRINGFIELD AVE. & DUNCAN RD.
59	SPRINGFIELD AVE. & STALEY RD.
60	PROSPECT AVE. & BRADLEY AVE.
61	PROSPECT AVE. & UNIVERSITY AVE.
62	NEIL ST. & GREEN ST.
63	NEIL ST. & WINDSOR RD.
64	U. S. 45 (DUNLAP AVE.) & CURTIS RD.
65	U. S. 45 (DUNLAP AVE.) & CHURCH ST.
66	UNIVERSITY AVE. & CUNNINGHAM AVE.
67	I-74 & CUNNINGHAM AVE. (U. S. 45), NORTH RAMPS, SOUTH RAMPS
68	U. S. 45 (CUNNINGHAM AVE.) - PERKINS RD. TO ILLINI AIRPORT DR.
69	SCHEDULE OF FIBER TERMINATIONS, TERMINAL ENCLOSURES AND ETHERNET SWITCHES
70	SCHEDULES (GENERAL)
71	CAMERA MOUNT ASSEMBLY DETAILS

FILE NAME =	USER NAME = ceerlookjd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, HIGHWAY STANDARDS &amp; GENERAL NOTES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
o:\pvc\work\pvidot\ceerlookjd\0340463\	Z samara plans.dgn	DRAWN -	REVISED -			VAR.	FY2011 INTERCONNECT	Champaign	71	2	
	PLOT SCALE = 40,000' / in.	CHECKED -	REVISED -			SCALE: SHEET NO. OF SHEETS STA. TO STA.					
	PLOT DATE = 6/26/2014	DATE -	REVISED -			ILLINOIS FED. AID PROJECT CONTRACT NO. 70A26					

# SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITY	LOCATION OF WORK:			
				CHAMPAIGN CO. VARIOUS ROUTES CHAMPAIGN URBANA 100% STATE	CHAMPAIGN CO. VARIOUS ROUTES CHAMPAIGN URBANA 100% STATE	CHAMPAIGN CO. VARIOUS ROUTES CHAMPAIGN URBANA 90% FED 10% STATE	CHAMPAIGN CO. VARIOUS ROUTES CHAMPAIGN URBANA 90% FED 10% STATE
CONSTRUCTION TYPE CODE:			URBAN 0021	RURAL 0021	URBAN 0021	RURAL 0021	
				QUANTITY	QUANTITY	QUANTITY	QUANTITY
20400800	FURNISHED EXCAVATION	CU YD	50.0		30.0		20.0
25000210	SEEDING, CLASS 2A	ACRE	0.25		.15		.1
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23.0		14.0		9.0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	23.0		14.0		9.0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23.0		14.0		9.0
25100115	MULCH, METHOD 2	ACRE	0.25		.15		.1
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	2687.5		1599.1		1088.4
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	13.0		8.0		5.0
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	14.0		8.0		6.0
63200310	GUARDRAIL REMOVAL	FOOT	50.0		30.0		20.0
* 63400105	GUARD POSTS	EACH	25.0		15.0		10.0
67100100	MOBILIZATION	L SUM	1.0	.3	.3	.2	.2
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0	.6		.4	
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1.0		.6		.4

\* SPECIALTY ITEM

# SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITY	LOCATION OF WORK:			
				CHAMPAIGN CO. VARIOUS ROUTES CHAMPAIGN URBANA 100% STATE	CHAMPAIGN CO. VARIOUS ROUTES CHAMPAIGN URBANA 100% STATE	CHAMPAIGN CO. VARIOUS ROUTES CHAMPAIGN URBANA 90% FED 10% STATE	CHAMPAIGN CO. VARIOUS ROUTES CHAMPAIGN URBANA 90% FED 10% STATE
			CONSTRUCTION TYPE CODE:	URBAN 0021	RURAL 0021	URBAN 0021	RURAL 0021
				QUANTITY	QUANTITY	QUANTITY	QUANTITY
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1.0	.6		.4	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1.0	.6		.4	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1.0	.6		.4	
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1.0		.6		.4
73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	FOOT	371.0		221.0		150.0
73301810	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	100.0		60.0		40.0
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	110.5		65.7		44.8
78200410	GUARDRAIL MARKERS, TYPE A	EACH	56.0		33.0		23.0
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	27.0		16.0		11.0
80500100	SERVICE INSTALLATION, TYPE A	EACH	5.0		3.0		2.0
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	15,406.0	5,846.0	3,321.0	3,979.0	2,260.0
81300830	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	5.0	3.0		2.0	
81400100	HANDHOLE	EACH	19.0	10.0	2.0	6.0	1.0
81500130	GULFBOX JUNCTION REMOVAL	EACH	1.0	.6		.4	



# SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITY	LOCATION OF WORK:			
				CHAMPAIGN CO. VARIOUS ROUTES CHAMPAIGN URBANA 100% STATE URBAN 0021 QUANTITY	CHAMPAIGN CO. VARIOUS ROUTES CHAMPAIGN URBANA 100% STATE RURAL 0021 QUANTITY	CHAMPAIGN CO. VARIOUS ROUTES CHAMPAIGN URBANA 90% FED 10% STATE URBAN 0021 QUANTITY	CHAMPAIGN CO. VARIOUS ROUTES CHAMPAIGN URBANA 90% FED 10% STATE RURAL 0021 QUANTITY
82700100	TRANSFORMER - GENERAL PURPOSE	EACH	3.0	2.0			1.0
83060840	LIGHT POLE, GALVANIZED STEEL, 50 FT. M.H., TENON MOUNT	EACH	6.0	4.0			2.0
83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	48.0	29.0			19.0
84200804	REMOVAL OF POLE FOUNDATION	EACH	1.0	.5			.5
86400100	TRANSCEIVER - FIBER OPTIC	EACH	3.0	2.0			1.0
87100020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125. MM12F SM12F	FOOT	1,801.0	1,072.0			729.0
87300901	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	8,771.0	4,373.0	846.0		2,976.0
87301125	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 12 3C	FOOT	7,722.0	4,595.0			3,127.0
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3C	FOOT	4,177.0		2,485.0		1,692.0
87900200	DRILL EXISTING HANDHOLE	EACH	34.0	18.0	3.0		12.0
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	17.0	10.0			7.0
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,473.0	876.0			597.0
X0323524	REMOVE EXISTING SURVEILLANCE CAMERA EQUIPMENT	EACH	1.0	.6			.4
X0324597	CLOSED CIRCUIT TELEVISION CABINET	EACH	6.0	4.0			2.0

# SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITY	LOCATION OF WORK:			
				CHAMPAIGN CO. VARIOUS ROUTES CHAMPAIGN URBANA 100% STATE URBAN 0021	CHAMPAIGN CO. VARIOUS ROUTES CHAMPAIGN URBANA 100% STATE RURAL 0021	CHAMPAIGN CO. VARIOUS ROUTES CHAMPAIGN URBANA 90% FED 10% STATE URBAN 0021	CHAMPAIGN CO. VARIOUS ROUTES CHAMPAIGN URBANA 90% FED 10% STATE RURAL 0021
		CONSTRUCTION TYPE CODE:		QUANTITY	QUANTITY	QUANTITY	QUANTITY
X0325485	TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	5.0		3.0		2.0
X0325810	WIRELESS ETHERNET RADIO	EACH	2.0	1.0		1.0	
X0325922	CELLULAR MODEM	EACH	5.0		3.0		2.0
X0326263	EQUIPMENT CABINET	EACH	1.0	.6		.4	
X0326266	ETHERNET SWITCH	EACH	39.0	23.0		16.0	
X0326452	VIDEO SYSTEM DETECTION PROCESSOR	EACH	5.0	3.0		2.0	
X0326617	PAINTING LIGHT POLE UNIT	EACH	1.0	.6		.4	
X0327216	CLOSED CIRCUIT TELEVISION CAMERA	EACH	29.0	14.0	3.0	10.0	2.0
X0327459	POLE AND CABLE REMOVAL	EACH	1.0	.6		.4	
X6340205	GUARD POSTS REMOVAL	EACH	15.0		9.0		6.0
X6430120	REMOVE IMPACT ATTENUATORS, NO SALVAGE	EACH	1.0		.6		.4
X7010410	SPEED DISPLAY TRAILER	CAL MO	1.0		.6		.4
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	30.0		18.0		12.0
X8710036	FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	10,422.0	5,228.0	973.0	3,559.0	662.0

40x 30 30A

# SUMMARY OF QUANTITIES

LOCATION OF WORK:

CHAMPAIGN CO. VARIOUS ROUTES CHAMPAIGN URBANA 100% STATE URBAN	CHAMPAIGN CO. VARIOUS ROUTES CHAMPAIGN URBANA 100% STATE RURAL	CHAMPAIGN CO. VARIOUS ROUTES CHAMPAIGN URBANA 90% FED 10% STATE URBAN	CHAMPAIGN CO. VARIOUS ROUTES CHAMPAIGN URBANA 90% FED 10% STATE RURAL
0021	0021	0021	0021

CONSTRUCTION TYPE CODE:

CODE NO	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
X8710054	FIBER OPTIC TERMINATION PANEL, 12 F OR 24F	EACH	3.0	2.0		1.0	
Z0010688	CAMERA MOUNTING ASSEMBLY	EACH	11.0	4.0	3.0	2.0	2.0
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.0	.6		.4	
Z0033070	VIDEO VEHICLE DETECTION, 4 CAMERAS	EACH	5.0	3.0		2.0	
<del>Z0076604</del>	<del>TRAINEES TRAINING PROGRAM GRADUATE</del>	<del>HOUR</del>	<del>500.0</del>	<del>149.0</del>	<del>149.0</del>	<del>101.0</del>	<del>101.0</del>

## OVERHEAD SIGN STRUCTURE LOCATION DATA CHART

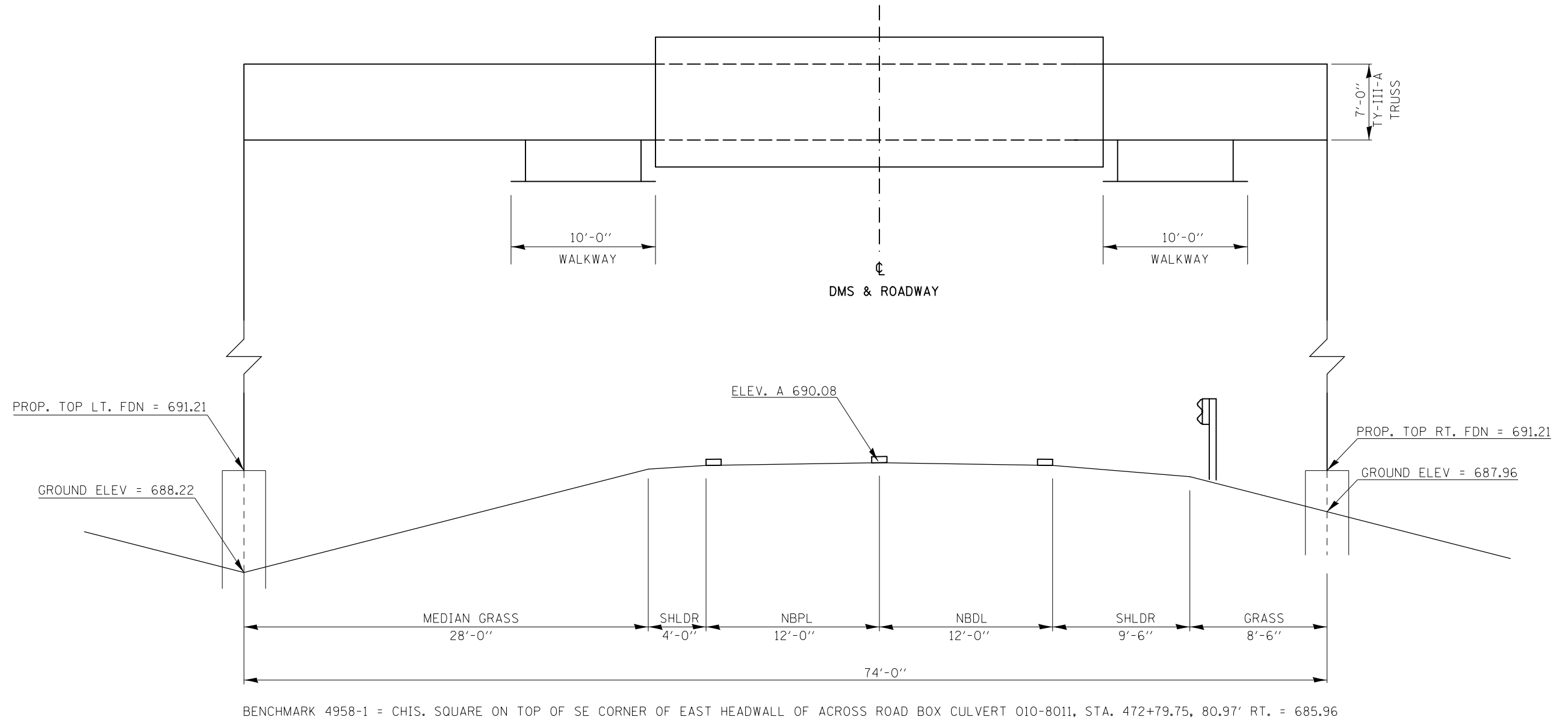
LOCATION NO.	STRUCTURE NO.	STANDARDS REQUIRED	PEAK HOURS	PEAK HOUR RESTRICTIONS	NIGHT TIME FULL ROAD CLOSURE REQUIRED?	NIGHT TIME FULL ROAD CLOSURE HOURS ALLOWED	CHANGEABLE MESSAGE BOARD REQUIRED?
5-01	5 S 010 I057 R226.45	701400 701401	NONE	N/A	YES	10:00 p.m. to 6:00 a.m. Sunday thru Thursday	6 CAL DA
5-02	5 S 010 I057 L242.78	701400 701401	NONE	N/A	YES	10:00 p.m. to 6:00 a.m. Sunday thru Thursday	6 CAL DA
5-03	5 S 010 I074 R172.83	701400 701401	6:00 a.m. to 8:30 a.m.	No lane closures or lane restrictions during peak hours.	YES	10:00 p.m. to 6:00 a.m. Sunday thru Thursday	6 CAL DA
5-04	5 S 010 I074 L189.05	701400 701401	6:00 a.m. to 8:30 a.m.	No lane closures or lane restrictions during peak hours.	YES	10:00 p.m. to 5:00 a.m. Sunday thru Thursday	6 CAL DA
5-05	5 S 010 I072 R178.29	701400 701401	NONE	N/A	YES	8:00 p.m. to 6:00 a.m. Sunday thru Thursday	6 CAL DA

**NOTES:**

- 1) CMS - Pay Item X7015005 is for advanced interstate notice - 3 days prior to foundation construction & 3 days prior to truss removal and erection.
- 2) CMS shown on Standards are included in the cost of the Standard.
- 3) See Special Provision SITE SPECIFIC TRAFFIC CONTROL AND PROTECTION for additional information and details.

# SIGN TRUSS MOUNTING DETAIL

## 5 S 010 I057 R226.45



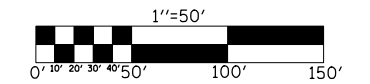
FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SIGN TRUSS MOUNTING DETAILS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw\work\p\id\ceorlockjd\0340463\P	Z camera plans.dgn	DRAWN -	REVISED -					VAR.	FY2014 ITS-1	CHAMPAIGN	71	9
*MODELNAME*	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		SCALE:      SHEET    OF    SHEETS    STA.            TO STA.			CONTRACT NO. 70A26				
	PLOT DATE = 6/26/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

# OVERHEAD SIGN STRUCTURE

I-57 NB - MM 226.45

STRUCTURE NO.

5 S 010 1057 R226.45

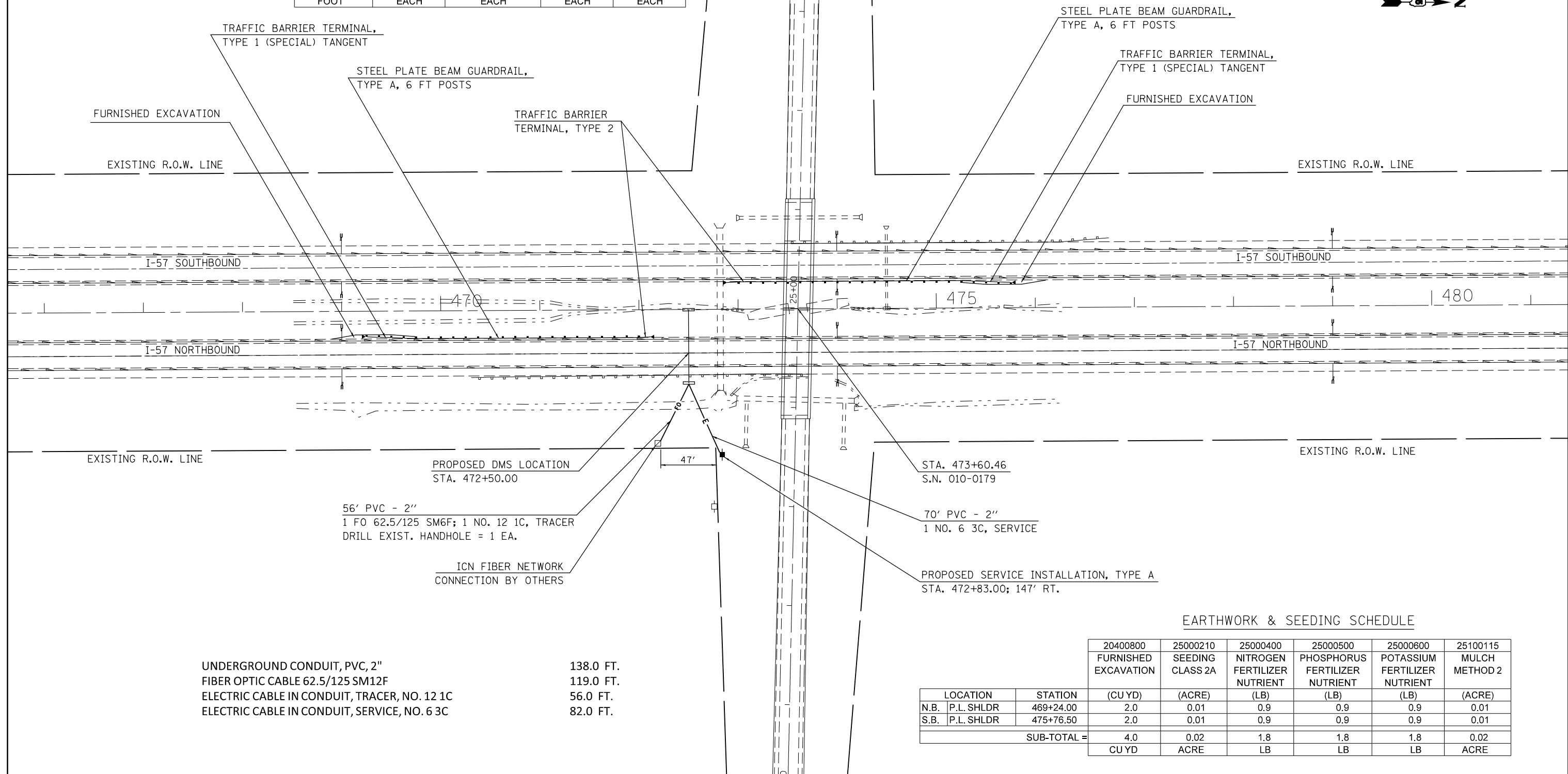


## SITE PLAN / CONDUIT & CABLE LAYOUT



### GUARDRAIL SCHEDULE

LOCATION	STATION	TO	STATION	63000001 STEEL PLATE BEAM GUARDRAIL TYPE A 6 FT POSTS (FOOT)	63100045 TRAFFIC BARRIER TERMINAL TYPE 2 (EACH)	63100167 TRAFFIC BARRIER TERMINAL TYPE 1(SPECIAL) TANGENT (EACH)	78200410 GUARDRAIL MARKER TYPE A (EACH)	78201000 TERMINAL MARKER DIRECT APPLIED (EACH)
N.B. P.L. SHLDR	469+24.00		469+74.00			1.0		1.0
N.B. P.L. SHLDR	469+74.00		471+99.00	225.0			4.0	
N.B. P.L. SHLDR	471+99.00		472+11.50		1.0			1.0
S.B. P.L. SHLDR	472+89.00		473+01.50		1.0			1.0
S.B. P.L. SHLDR	473+01.50		475+26.50	225.0			4.0	
S.B. P.L. SHLDR	475+26.50					1.0		1.0
SUB-TOTAL =				450.0	2.0	2.0	8.0	4.0
				FOOT	EACH	EACH	EACH	EACH



UNDERGROUND CONDUIT, PVC, 2" 138.0 FT.  
 FIBER OPTIC CABLE 62.5/125 SM12F 119.0 FT.  
 ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C 56.0 FT.  
 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3C 82.0 FT.

### EARTHWORK & SEEDING SCHEDULE

LOCATION	STATION	20400800 FURNISHED EXCAVATION (CU YD)	25000210 SEEDING CLASS 2A (ACRE)	25000400 NITROGEN FERTILIZER NUTRIENT (LB)	25000500 PHOSPHORUS FERTILIZER NUTRIENT (LB)	25000600 POTASSIUM FERTILIZER NUTRIENT (LB)	25100115 MULCH METHOD 2 (ACRE)
N.B. P.L. SHLDR	469+24.00	2.0	0.01	0.9	0.9	0.9	0.01
S.B. P.L. SHLDR	475+26.50	2.0	0.01	0.9	0.9	0.9	0.01
SUB-TOTAL =		4.0	0.02	1.8	1.8	1.8	0.02
		CUYD	ACRE	LB	LB	LB	ACRE

FILE NAME =	USER NAME = ceerlockjd	DESIGNED -	REVISED -
ei:\pwork\pwork\ceerlockjd\0340463\0570026-sht-plan_50.dgn		DRAWN -	REVISED -
\$MODELNAME\$	PLOT DATE = 6/26/2014	CHECKED -	REVISED -
		DATE -	REVISED -

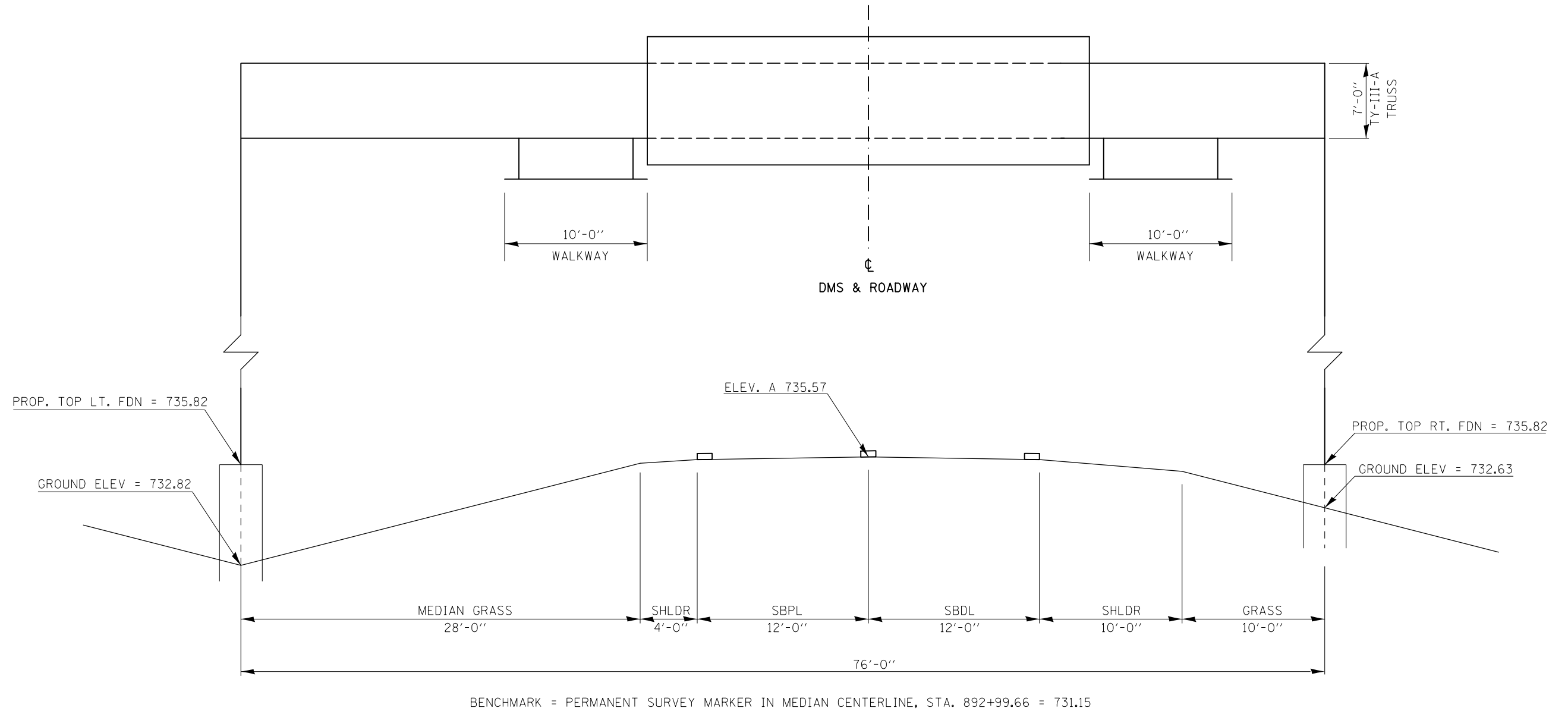
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN SHEET			
FAI - 57 NB / MM 226.45			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	10
			CONTRACT NO. 70A26	
ILLINOIS FED. AID PROJECT				

# SIGN TRUSS MOUNTING DETAIL

## 5 S 010 I057 L242.78



FILE NAME =	USER NAME = ceerlockjd	DESIGNED -	REVISED -
ci:\pwork\pwork\ceerlockjd\0340463\P	Z camera plans.dgn	DRAWN -	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
#MODELNAME#	PLOT DATE = 6/26/2014	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGN TRUSS MOUNTING DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	11
CONTRACT NO. 70A26			ILLINOIS FED. AID PROJECT	

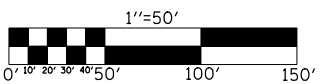


**OVERHEAD SIGN STRUCTURE**

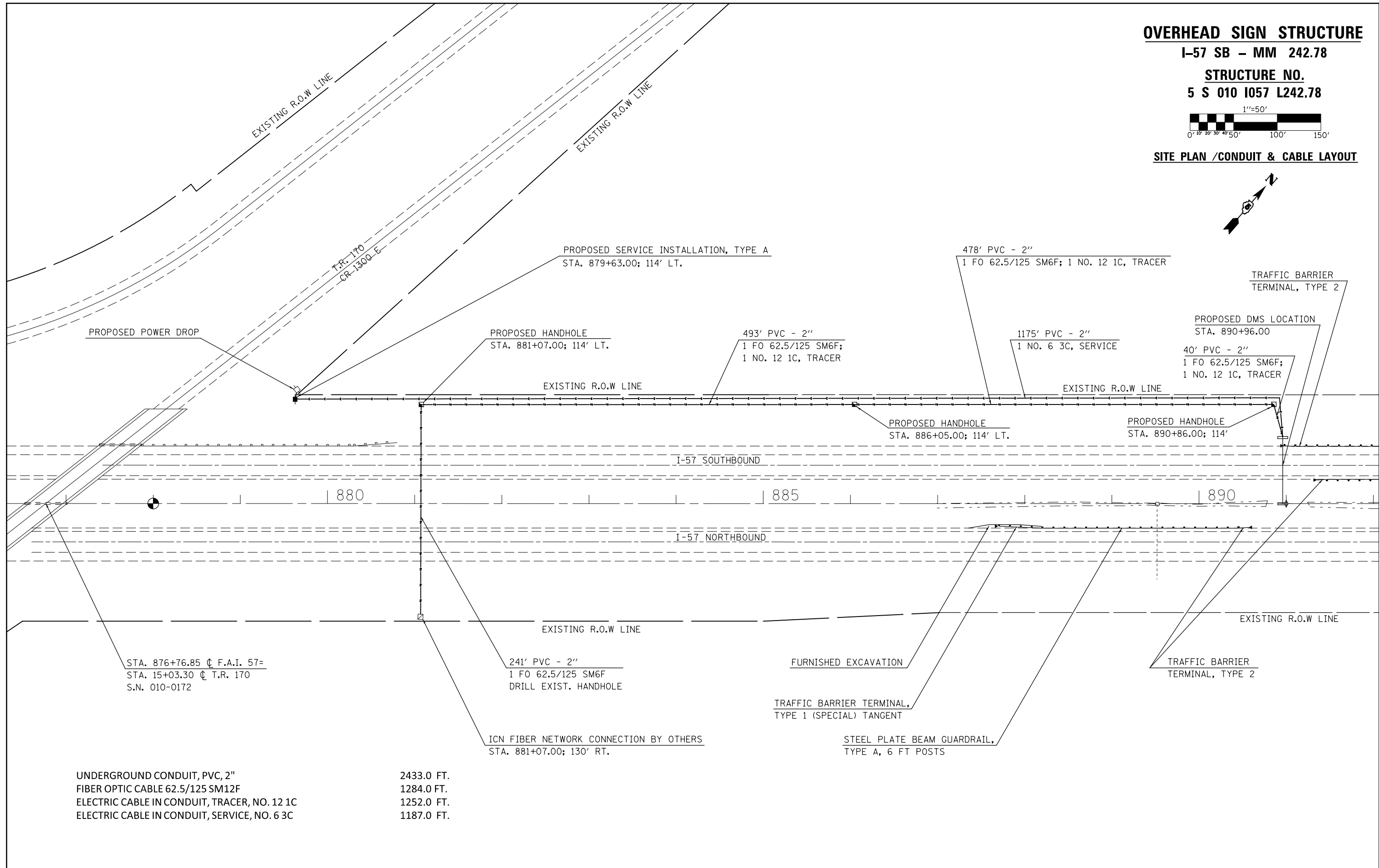
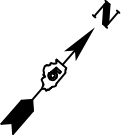
**I-57 SB - MM 242.78**

**STRUCTURE NO.**

**5 S 010 1057 L242.78**



**SITE PLAN / CONDUIT & CABLE LAYOUT**



UNDERGROUND CONDUIT, PVC, 2"	2433.0 FT.
FIBER OPTIC CABLE 62.5/125 SM12F	1284.0 FT.
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	1252.0 FT.
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3C	1187.0 FT.

FILE NAME =	USER NAME = ceerlockjd	DESIGNED -	REVISED -
c:\pwork\pwork\ceerlockjd\0340463\0570A26-sht-plan_50.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 6/26/2014	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET  
FAI - 57 SB / MM 242.78**

SCALE: SHEET OF SHEETS STA. TO STA.

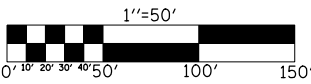
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	12
			CONTRACT NO. 70A26	
ILLINOIS FED. AID PROJECT				

**OVERHEAD SIGN STRUCTURE**

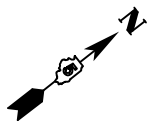
**I-57 SB - MM 242.78**

**STRUCTURE NO.**

**5 S 010 I057 L242.78**

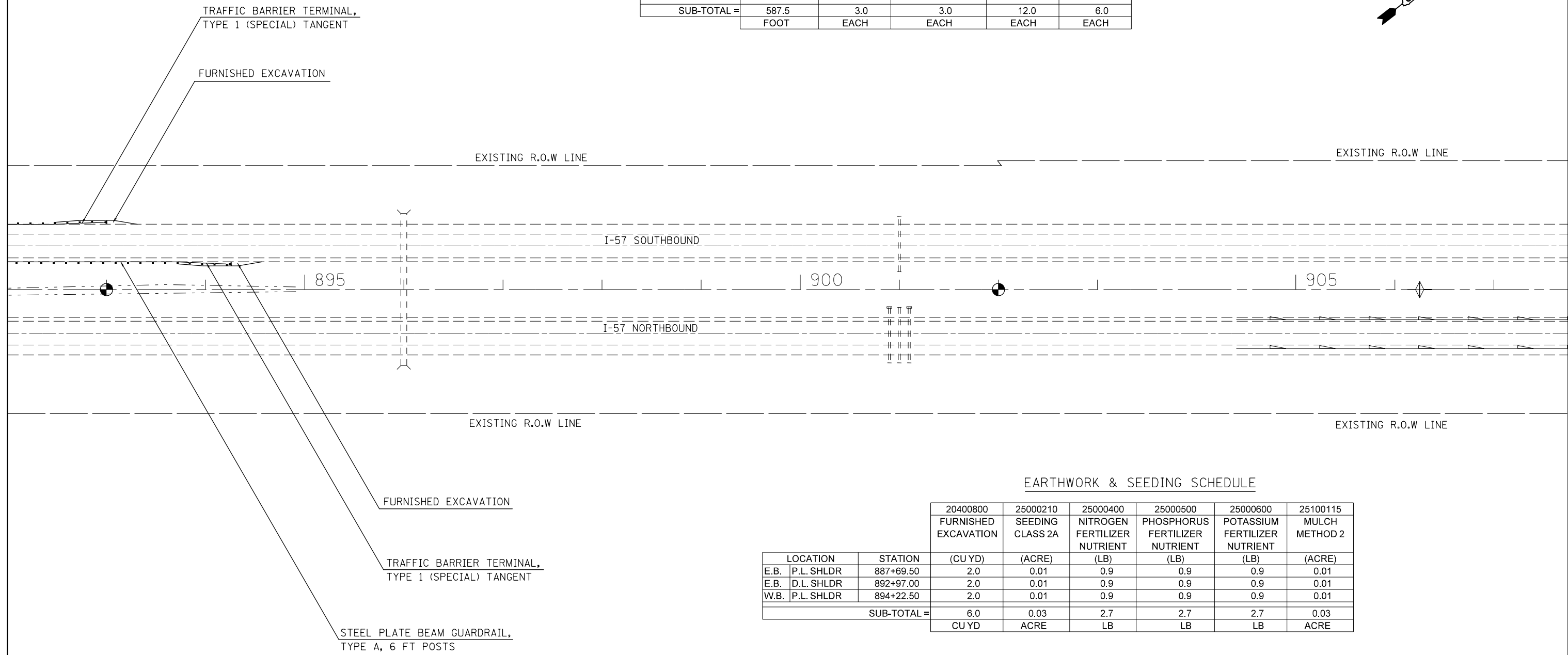


**SITE PLAN / CONDUIT & CABLE LAYOUT**



**GUARDRAIL SCHEDULE**

LOCATION	STATION	TO	STATION	63000001 STEEL PLATE BEAM GUARDRAIL TYPE A 6 FT POSTS (FOOT)	63100045 TRAFFIC BARRIER TERMINAL TYPE 2 (EACH)	63100167 TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT (EACH)	78200410 GUARDRAIL MARKER TYPE A (EACH)	78201000 TERMINAL MARKER DIRECT APPLIED (EACH)
N.B. P.L. SHLDR	887+69.50		888+19.50			1.0		1.0
N.B. P.L. SHLDR	888+19.50		890+44.50	225.0			4.0	
N.B. P.L. SHLDR	890+44.50		890+57.00		1.0			1.0
S.B. D.L. SHLDR	890+97.00		891+09.50		1.0			1.0
S.B. D.L. SHLDR	891+09.50		892+47.00	137.5			4.0	
S.B. D.L. SHLDR	892+47.00		892+97.00			1.0		1.0
S.B. P.L. SHLDR	891+35.00		891+47.50		1.0			1.0
S.B. P.L. SHLDR	891+47.50		893+72.50	225.0			4.0	
S.B. P.L. SHLDR	893+72.50		894+22.50			1.0		1.0
<b>SUB-TOTAL =</b>				<b>587.5</b>	<b>3.0</b>	<b>3.0</b>	<b>12.0</b>	<b>6.0</b>
				<b>FOOT</b>	<b>EACH</b>	<b>EACH</b>	<b>EACH</b>	<b>EACH</b>

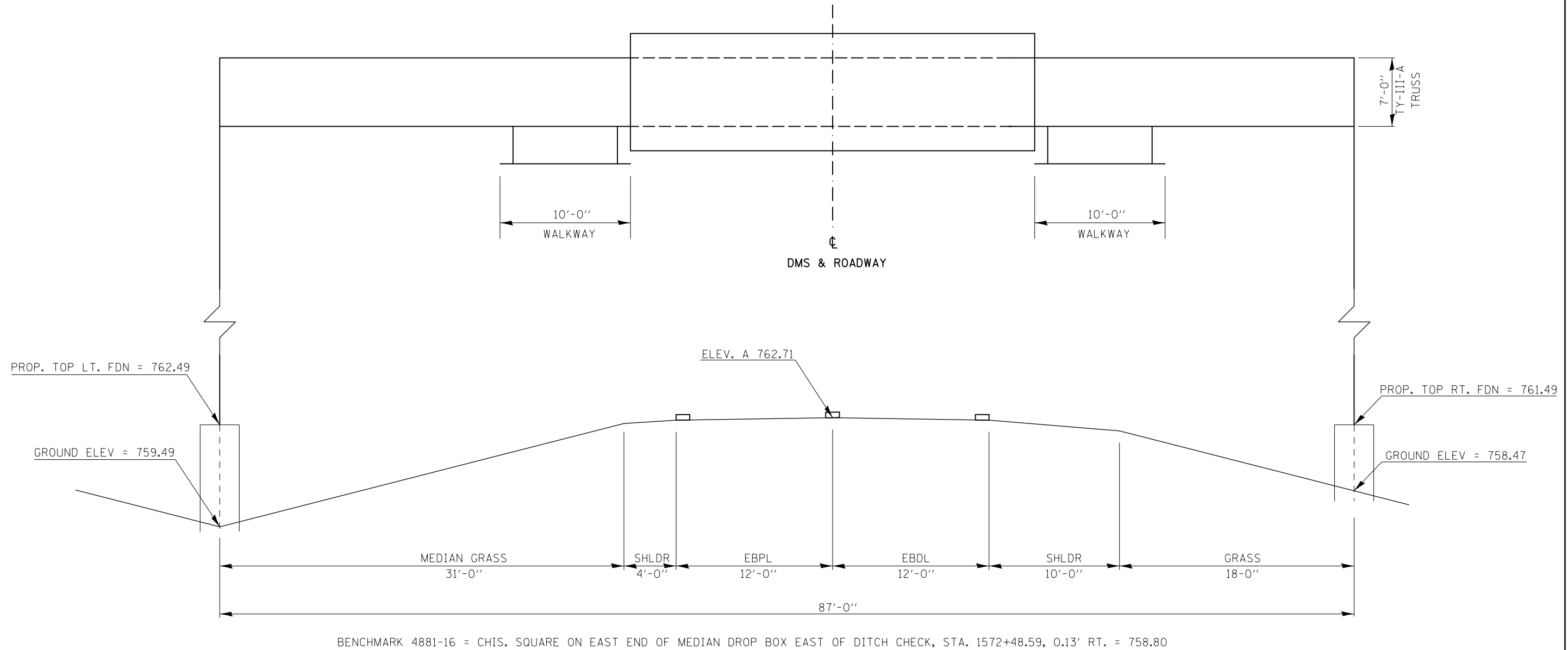


**EARTHWORK & SEEDING SCHEDULE**

LOCATION	STATION	20400800 FURNISHED EXCAVATION (CU YD)	25000210 SEEDING CLASS 2A (ACRE)	25000400 NITROGEN FERTILIZER NUTRIENT (LB)	25000500 PHOSPHORUS FERTILIZER NUTRIENT (LB)	25000600 POTASSIUM FERTILIZER NUTRIENT (LB)	25100115 MULCH METHOD 2 (ACRE)
E.B. P.L. SHLDR	887+69.50	2.0	0.01	0.9	0.9	0.9	0.01
E.B. D.L. SHLDR	892+97.00	2.0	0.01	0.9	0.9	0.9	0.01
W.B. P.L. SHLDR	894+22.50	2.0	0.01	0.9	0.9	0.9	0.01
<b>SUB-TOTAL =</b>		<b>6.0</b>	<b>0.03</b>	<b>2.7</b>	<b>2.7</b>	<b>2.7</b>	<b>0.03</b>
		<b>CU YD</b>	<b>ACRE</b>	<b>LB</b>	<b>LB</b>	<b>LB</b>	<b>ACRE</b>

# SIGN TRUSS MOUNTING DETAIL

## 5 S 010 I074 R172.83



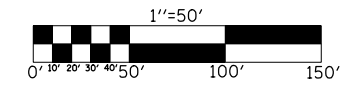
FILE NAME =	USER NAME = ceerlockjd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SIGN TRUSS MOUNTING DETAILS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pwork\work\pidot\ceerlockjd\0340463\P	Z camera plans.dgn	DRAWN -	REVISED -						VAR.	FY2014 ITS-1	CHAMPAIGN	71	14
\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -						CONTRACT NO. 70A26				
	PLOT DATE = 6/26/2014	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	

**OVERHEAD SIGN STRUCTURE**

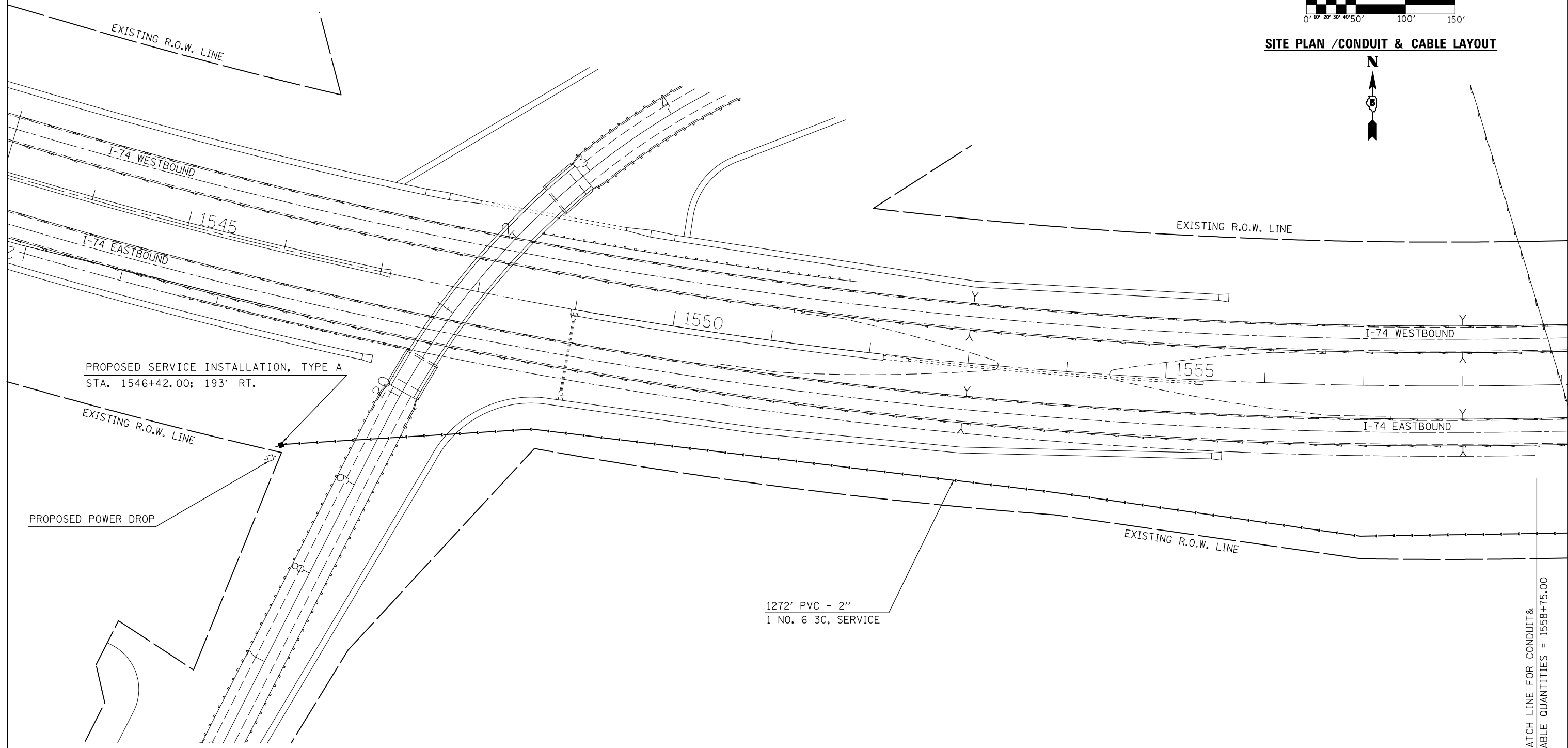
I-74 EB - MM 172.83

**STRUCTURE NO.**

5 S 010 I072 R172.83



**SITE PLAN / CONDUIT & CABLE LAYOUT**



MATCH LINE FOR CONDUIT & CABLE QUANTITIES = 1558+75.00

FILE NAME =	USER NAME = ceerlockjd	DESIGNED -	REVISED -
c:\pwork\pwork\ceerlockjd\0340463\0570A26-sht-plan_50.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 6/26/2014	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PLAN SHEET</b>			
<b>FAI - 74 EB / MM 172.83</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

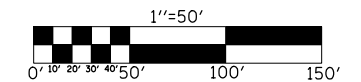
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	15
			CONTRACT NO. 70A26	
ILLINOIS FED. AID PROJECT				

# OVERHEAD SIGN STRUCTURE

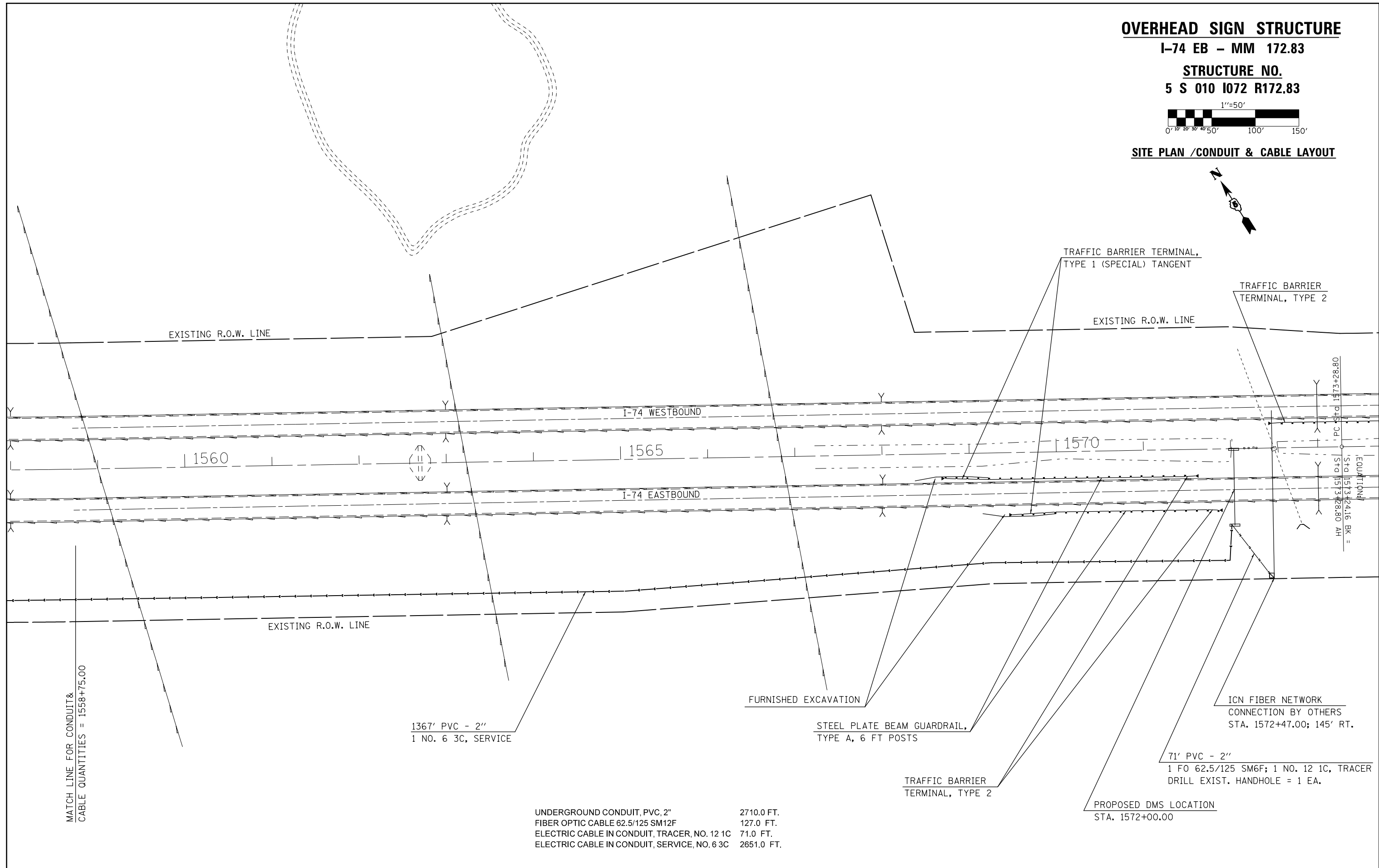
I-74 EB - MM 172.83

STRUCTURE NO.

5 S 010 I072 R172.83



## SITE PLAN / CONDUIT & CABLE LAYOUT



MATCH LINE FOR CONDUIT & CABLE QUANTITIES = 1558+75.00

UNDERGROUND CONDUIT, PVC, 2" 2710.0 FT.  
 FIBER OPTIC CABLE 62.5/125 SM12F 127.0 FT.  
 ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C 71.0 FT.  
 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3C 2651.0 FT.

FILE NAME =	USER NAME = ceerlockjd	DESIGNED -	REVISED -
c:\pwwork\pwwork\ceerlockjd\0340463\0570A26-sht-plan_50.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 6/26/2014	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PLAN SHEET</b>			
<b>FAI - 74 EB / MM 172.83</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

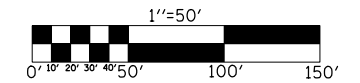
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70A26	

**OVERHEAD SIGN STRUCTURE**

**I-74 EB - MM 172.83**

**STRUCTURE NO.**

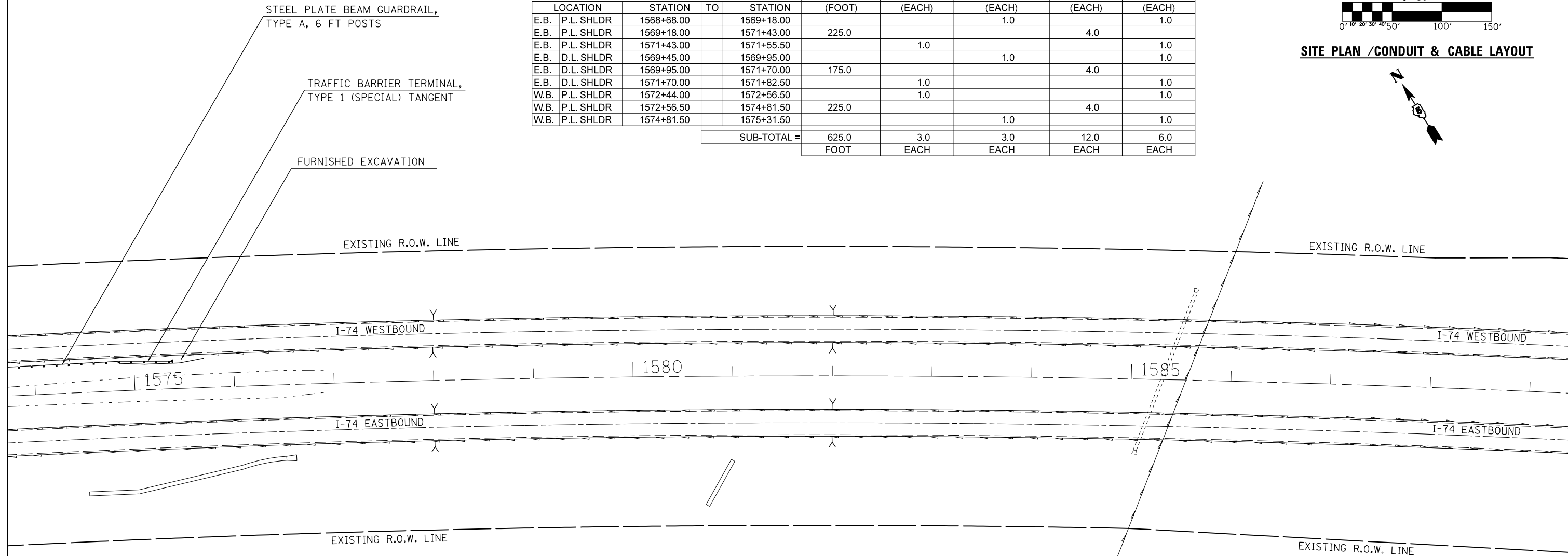
**5 S 010 I072 R172.83**



**SITE PLAN / CONDUIT & CABLE LAYOUT**

**GUARDRAIL SCHEDULE**

LOCATION		STATION	TO	STATION	63000001 STEEL PLATE BEAM GUARDRAIL TYPE A 6 FT POSTS (FOOT)	63100045 TRAFFIC BARRIER TERMINAL TYPE 2 (EACH)	63100167 TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT (EACH)	78200410 GUARDRAIL MARKER TYPE A (EACH)	78201000 TERMINAL MARKER DIRECT APPLIED (EACH)
E.B.	P.L. SHLDR	1568+68.00		1569+18.00			1.0		1.0
E.B.	P.L. SHLDR	1569+18.00		1571+43.00	225.0			4.0	
E.B.	P.L. SHLDR	1571+43.00		1571+55.50		1.0			1.0
E.B.	D.L. SHLDR	1569+45.00		1569+95.00			1.0		1.0
E.B.	D.L. SHLDR	1569+95.00		1571+70.00	175.0			4.0	
E.B.	D.L. SHLDR	1571+70.00		1571+82.50		1.0			1.0
W.B.	P.L. SHLDR	1572+44.00		1572+56.50		1.0			1.0
W.B.	P.L. SHLDR	1572+56.50		1574+81.50	225.0			4.0	
W.B.	P.L. SHLDR	1574+81.50		1575+31.50			1.0		1.0
SUB-TOTAL =					625.0	3.0	3.0	12.0	6.0
					FOOT	EACH	EACH	EACH	EACH

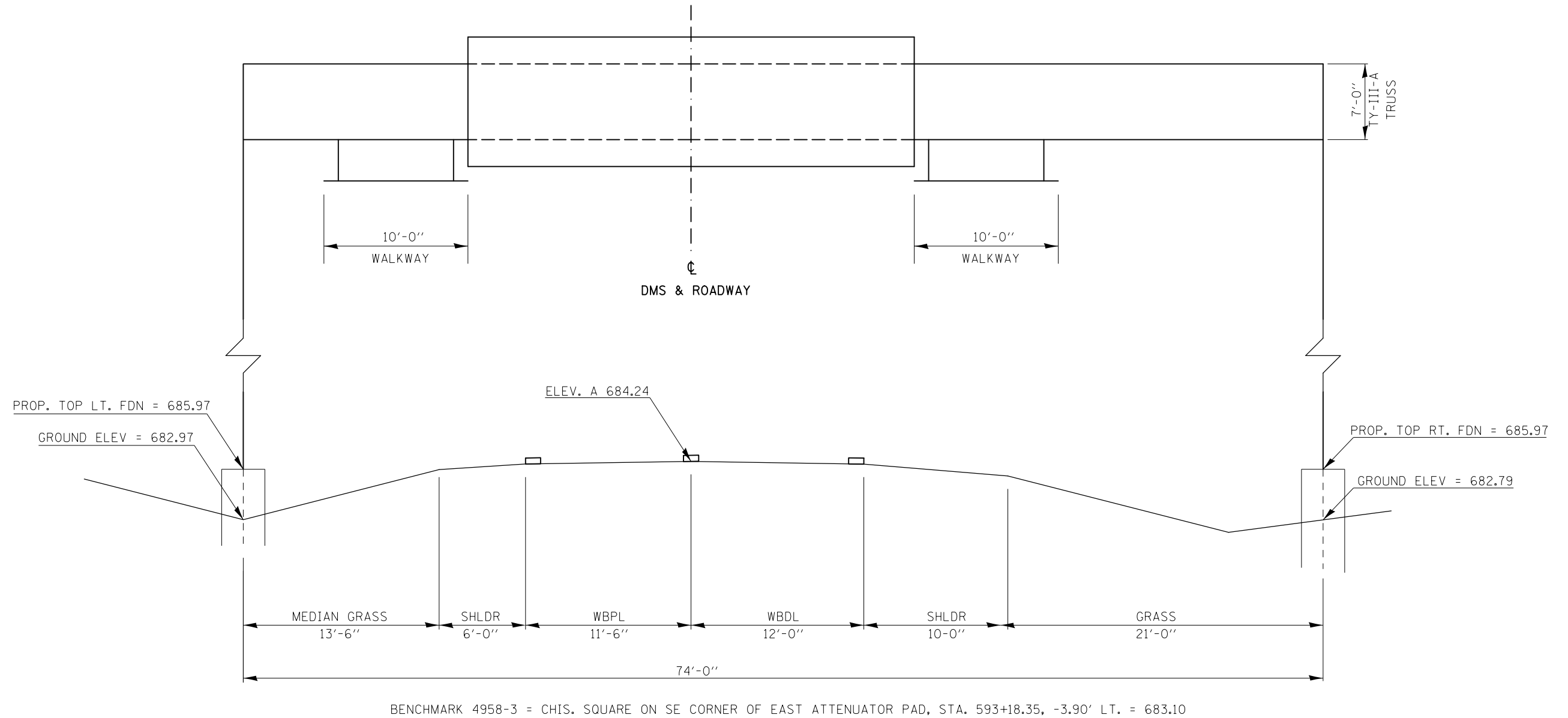


**EARTHWORK & SEEDING SCHEDULE**

LOCATION		STATION	20400800 FURNISHED EXCAVATION (CU YD)	25000210 SEEDING CLASS 2A (ACRE)	25000400 NITROGEN FERTILIZER NUTRIENT (LB)	25000500 PHOSPHORUS FERTILIZER NUTRIENT (LB)	25000600 POTASSIUM FERTILIZER NUTRIENT (LB)	25100115 MULCH METHOD 2 (ACRE)
E.B.	P.L. SHLDR	1568+68.00	2.0	0.01	0.9	0.9	0.9	0.01
E.B.	D.L. SHLDR	1569+45.00	2.0	0.01	0.9	0.9	0.9	0.01
W.B.	P.L. SHLDR	1575+31.50	2.0	0.01	0.9	0.9	0.9	0.01
SUB-TOTAL =			6.0	0.03	2.7	2.7	2.7	0.03
			CUYD	ACRE	LB	LB	LB	ACRE

# SIGN TRUSS MOUNTING DETAIL

## 5 S 010 I074 L189.05



FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SIGN TRUSS MOUNTING DETAILS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw\work\p\idot\ceorlockjd\0340463\P	Z camera plans.dgn	DRAWN -	REVISED -					VAR.	FY2014 ITS-1	CHAMPAIGN	71	18
*MODELNAME*	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		SCALE:      SHEET      OF      SHEETS      STA.      TO      STA.			CONTRACT NO. 70A26				
	PLOT DATE = 6/26/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



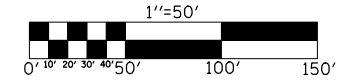
GUARDRAIL SCHEDULE

LOCATION	STATION	TO	STATION	6300001 STEEL PLATE BEAM GUARDRAIL TYPE A 6 FT POSTS (FOOT)	63100045 TRAFFIC BARRIER TERMINAL TYPE 2 (EACH)	63100167 TRAFFIC BARRIER TERMINAL TYPE 1(SPECIAL) TANGENT (EACH)	78200410 GUARDRAIL MARKER TYPE A (EACH)	78201000 TERMINAL MARKER DIRECT APPLIED (EACH)
E.B. P.L. SHLDR	591+40.00		591+90.00			1.0		1.0
E.B. P.L. SHLDR	591+90.00		592+90.00	100.0			4.0	
E.B. P.L. SHLDR	592+90.00		593+02.50		1.0			1.0
W.B. D.L. SHLDR	593+35.50		593+48.00		1.0			1.0
W.B. D.L. SHLDR	593+48.00		595+23.00	175.0			4.0	
W.B. D.L. SHLDR	595+23.00		595+73.00			1.0		1.0
W.B. P.L. SHLDR	593+19.50		593+32.00		1.0			1.0
W.B. P.L. SHLDR	593+32.00		595+32.00	200.0			4.0	
W.B. P.L. SHLDR	595+32.00		595+82.00			1.0		1.0
SUB-TOTAL =				475.0	3.0	3.0	12.0	6.0
				FOOT	EACH	EACH	EACH	EACH

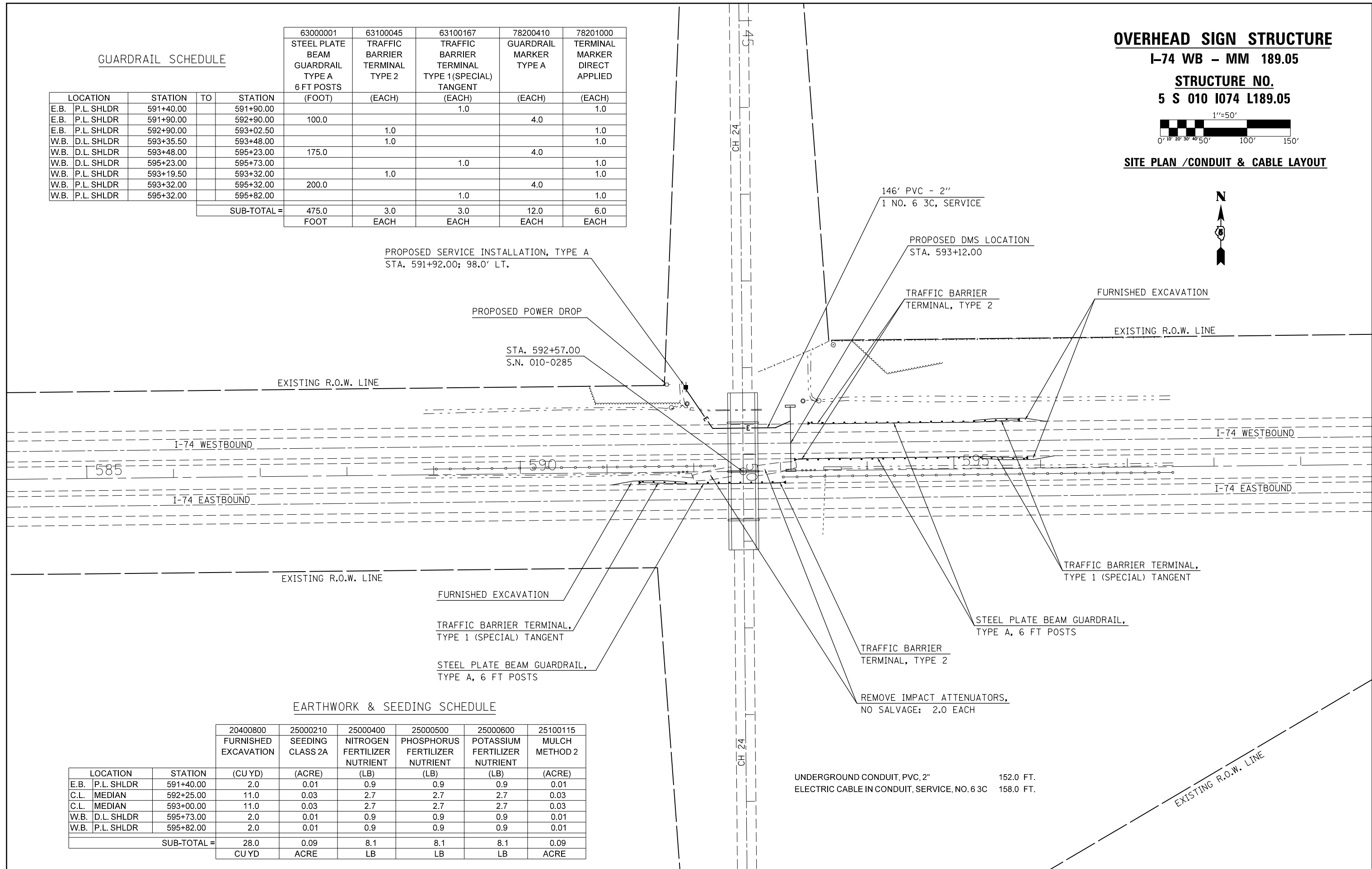
OVERHEAD SIGN STRUCTURE

I-74 WB - MM 189.05

STRUCTURE NO.  
5 S 010 I074 L189.05



SITE PLAN /CONDUIT & CABLE LAYOUT



PROPOSED SERVICE INSTALLATION, TYPE A  
STA. 591+92.00; 98.0' LT.

PROPOSED POWER DROP  
STA. 592+57.00  
S.N. 010-0285

146' PVC - 2"  
1 NO. 6 3C, SERVICE

PROPOSED DMS LOCATION  
STA. 593+12.00

TRAFFIC BARRIER  
TERMINAL, TYPE 2

FURNISHED EXCAVATION

EXISTING R.O.W. LINE

I-74 WESTBOUND

I-74 WESTBOUND

585

590

595

I-74 EASTBOUND

I-74 EASTBOUND

EXISTING R.O.W. LINE

FURNISHED EXCAVATION

TRAFFIC BARRIER TERMINAL,  
TYPE 1 (SPECIAL) TANGENT

STEEL PLATE BEAM GUARDRAIL,  
TYPE A, 6 FT POSTS

TRAFFIC BARRIER TERMINAL,  
TYPE 1 (SPECIAL) TANGENT

STEEL PLATE BEAM GUARDRAIL,  
TYPE A, 6 FT POSTS

TRAFFIC BARRIER  
TERMINAL, TYPE 2

REMOVE IMPACT ATTENUATORS,  
NO SALVAGE: 2.0 EACH

UNDERGROUND CONDUIT, PVC, 2" 152.0 FT.  
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3C 158.0 FT.

EARTHWORK & SEEDING SCHEDULE

LOCATION	STATION	(CU YD)	(ACRE)	(LB)	(LB)	(LB)	(ACRE)
E.B. P.L. SHLDR	591+40.00	2.0	0.01	0.9	0.9	0.9	0.01
C.L. MEDIAN	592+25.00	11.0	0.03	2.7	2.7	2.7	0.03
C.L. MEDIAN	593+00.00	11.0	0.03	2.7	2.7	2.7	0.03
W.B. D.L. SHLDR	595+73.00	2.0	0.01	0.9	0.9	0.9	0.01
W.B. P.L. SHLDR	595+82.00	2.0	0.01	0.9	0.9	0.9	0.01
SUB-TOTAL =		28.0	0.09	8.1	8.1	8.1	0.09
		CUYD	ACRE	LB	LB	LB	ACRE

FILE NAME =	USER NAME = ceerlockjd	DESIGNED -	REVISED -
ei:\pw\work\p\midot\ceerlockjd\0340463\0570026-sht-plan_50.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 6/26/2014	DATE -	REVISED -

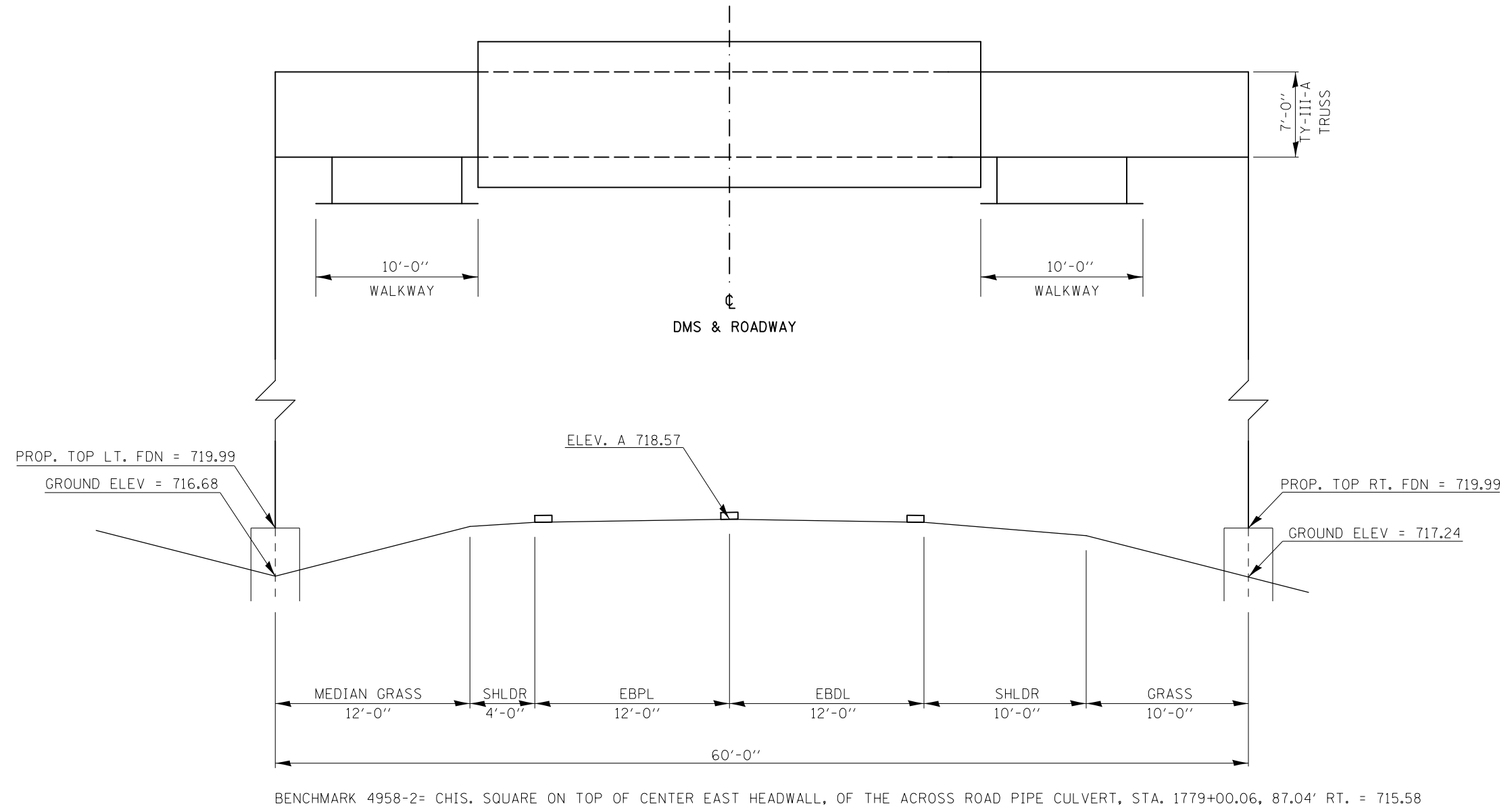
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN SHEET			
FAI - 74 WB / MM 189.05			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	19
			CONTRACT NO. 70A26	
ILLINOIS FED. AID PROJECT				

# SIGN TRUSS MOUNTING DETAIL

## 5 S 010 I072 R178.29



FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED -
c:\pwwork\pwwork\ceorlockjd\0340463\p	Z camera plans.dgn	DRAWN -	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
*MODELNAME*	PLOT DATE = 6/26/2014	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGN TRUSS MOUNTING DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	20
CONTRACT NO. 70A26				
ILLINOIS FED. AID PROJECT				

GUARDRAIL SCHEDULE

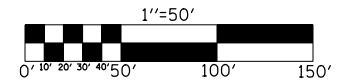
LOCATION	STATION	TO	STATION	63000001 STEEL PLATE BEAM GUARDRAIL TYPE A 6 FT POSTS (FOOT)	63100045 TRAFFIC BARRIER TERMINAL TYPE 2 (EACH)	63100167 TRAFFIC BARRIER TERMINAL TYPE 1(SPECIAL) TANGENT (EACH)	78200410 GUARDRAIL MARKER TYPE A (EACH)	78201000 TERMINAL MARKER DIRECT APPLIED (EACH)	63200310 GUARDRAIL REMOVAL (FOOT)
E.B. P.L. SHLDR	1775+18.00		1775+68.00			1.0		1.0	
E.B. P.L. SHLDR	1775+68.00		1777+93.00	225.0			4.0		
E.B. P.L. SHLDR	1777+93.00		1778+05.50		1.0			1.0	
E.B. D.L. SHLDR	1775+97.00		1776+47.00			1.0		1.0	
E.B. D.L. SHLDR	1776+47.00		1777+59.50	112.5			4.0		
E.B. D.L. SHLDR	1777+07.00		1777+57.00						50.0
W.B. P.L. SHLDR	1778+83.50		1778+96.00		1.0			1.0	
W.B. P.L. SHLDR	1778+96.00		1781+08.50	212.5			4.0		
W.B. P.L. SHLDR	1781+08.50		1781+58.50			1.0		1.0	
SUB-TOTAL =				550.0	2.0	3.0	12.0	5.0	50.0
				FOOT	EACH	EACH	EACH	EACH	FOOT

OVERHEAD SIGN STRUCTURE

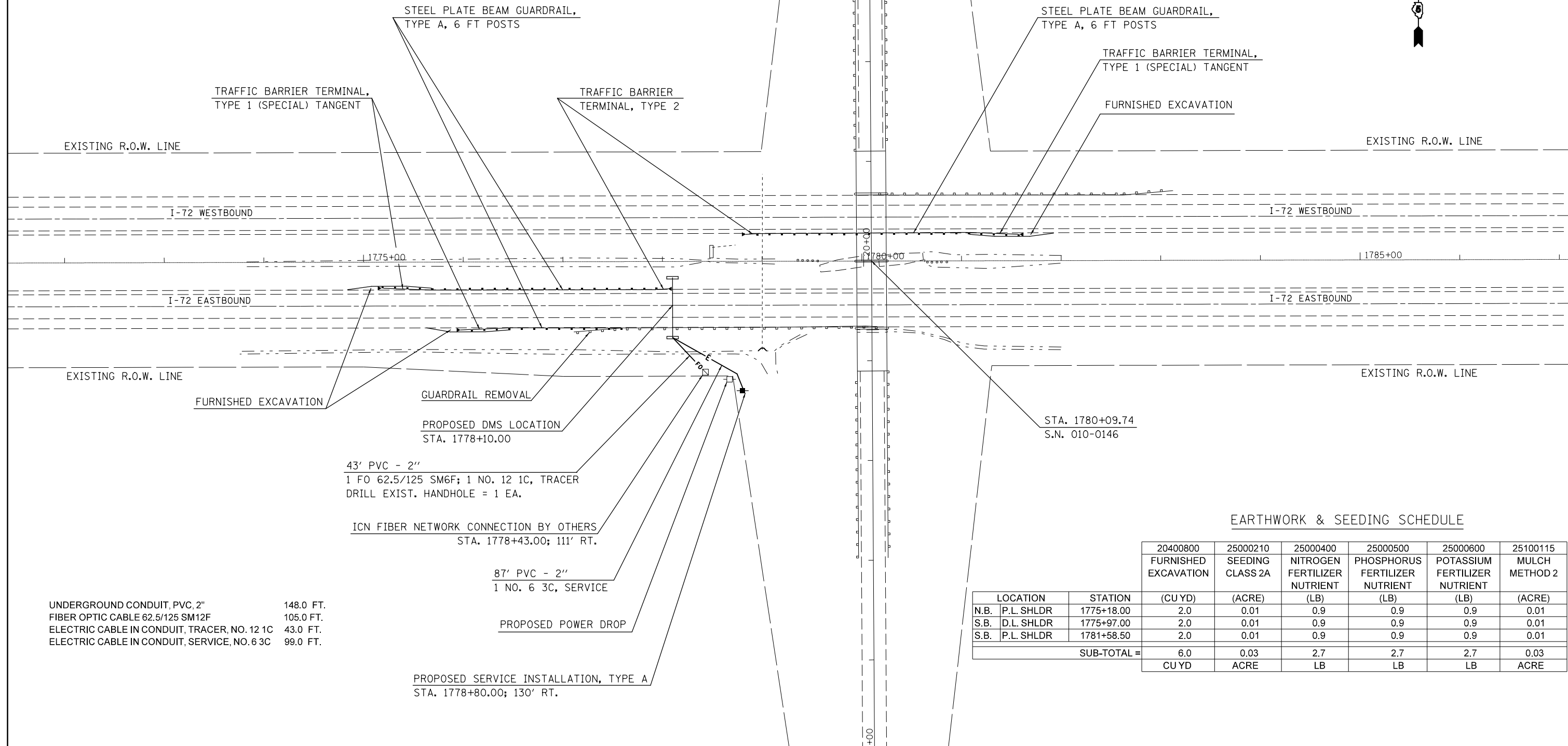
I-72 EB - MM 178.29

STRUCTURE NO.

5 S 010 I072 R178.29



SITE PLAN / CONDUIT & CABLE LAYOUT



UNDERGROUND CONDUIT, PVC, 2" 148.0 FT.  
 FIBER OPTIC CABLE 62.5/125 SM12F 105.0 FT.  
 ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C 43.0 FT.  
 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3C 99.0 FT.

EARTHWORK & SEEDING SCHEDULE

20400800 FURNISHED EXCAVATION	25000210 SEEDING CLASS 2A	25000400 NITROGEN FERTILIZER NUTRIENT	25000500 PHOSPHORUS FERTILIZER NUTRIENT	25000600 POTASSIUM FERTILIZER NUTRIENT	25100115 MULCH METHOD 2		
LOCATION	STATION	(CU YD)	(ACRE)	(LB)	(LB)	(LB)	(ACRE)
N.B. P.L. SHLDR	1775+18.00	2.0	0.01	0.9	0.9	0.9	0.01
S.B. D.L. SHLDR	1775+97.00	2.0	0.01	0.9	0.9	0.9	0.01
S.B. P.L. SHLDR	1781+58.50	2.0	0.01	0.9	0.9	0.9	0.01
SUB-TOTAL =		6.0	0.03	2.7	2.7	2.7	0.03
		CU YD	ACRE	LB	LB	LB	ACRE

**GENERAL NOTES**

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:  
Field Units  
F<sub>c</sub> = 3,500 p.s.i.  
f<sub>y</sub> = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W\*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316, or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

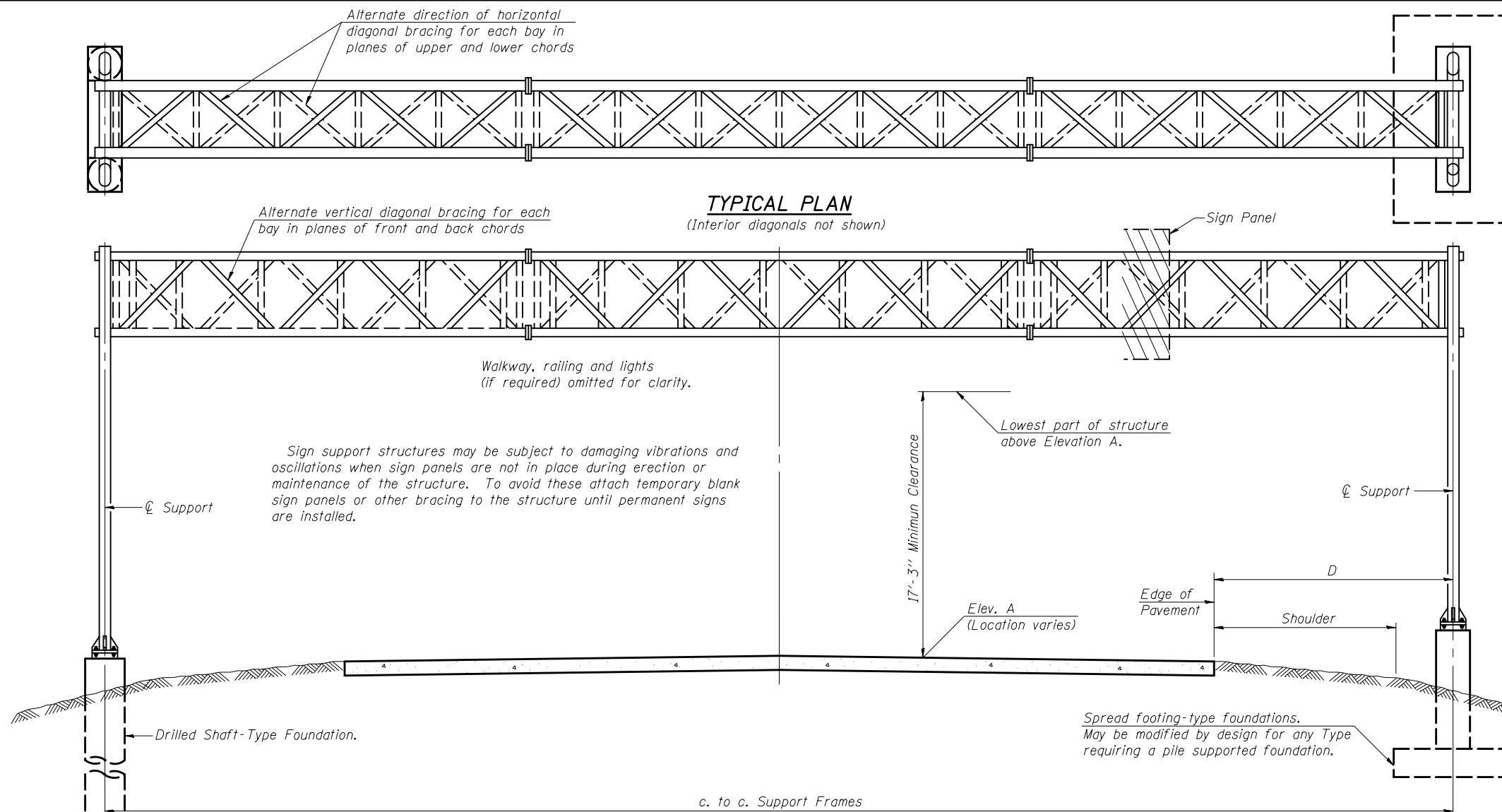
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	-
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	-
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	371
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	100
CONCRETE FOUNDATIONS	Cu. Yds.	-
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	110.5



**TYPICAL ELEVATION**

(Looking at Face of Signs)\*\*

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

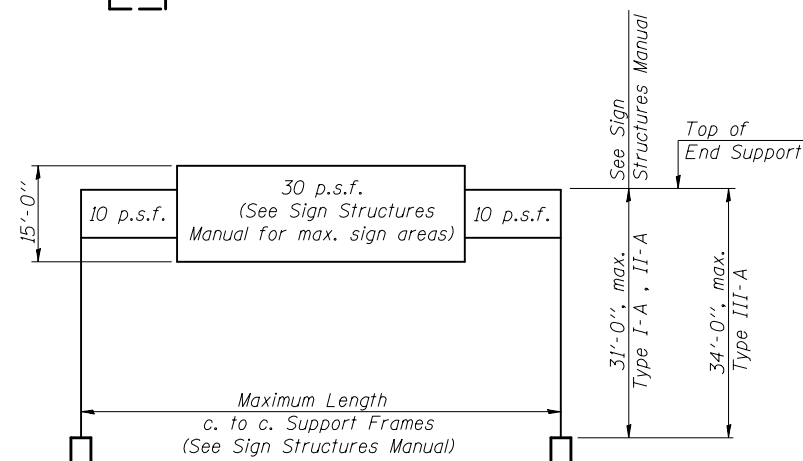
Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign ****	Total Sign Area
5 S 010 1057 R226.45	472+50	III-A	74'-0"	690.08	***	Exact	Exact
5 S 010 1057 L242.78	890+96	III-A	76'-0"	735.57	***	Dimensions	Dimensions
5 S 010 1074 R172.83	1572+00	III-A	87'-0"	762.71	***	of DMS	of DMS
5 S 010 1074 L189.05	593+12	III-A	74'-0"	684.24	***	Cabinets	Cabinets
5 S 010 1072 R178.29	1778+15	III-A	60'-0"	718.57	***	Unknown	Unknown

\* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

\*\*Looking upstation for structures with signs both sides.

\*\*\*See Sign Truss Mounting Details

\*\*\*\*End support height based on 15'-0" sign height per OS4-A-8a



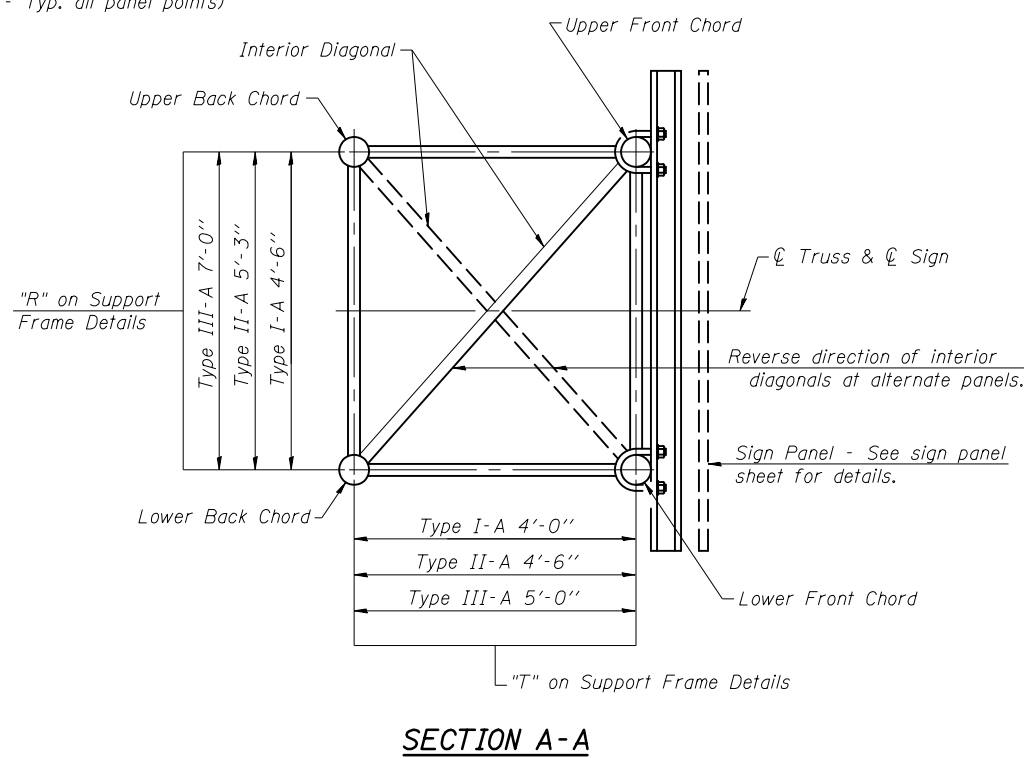
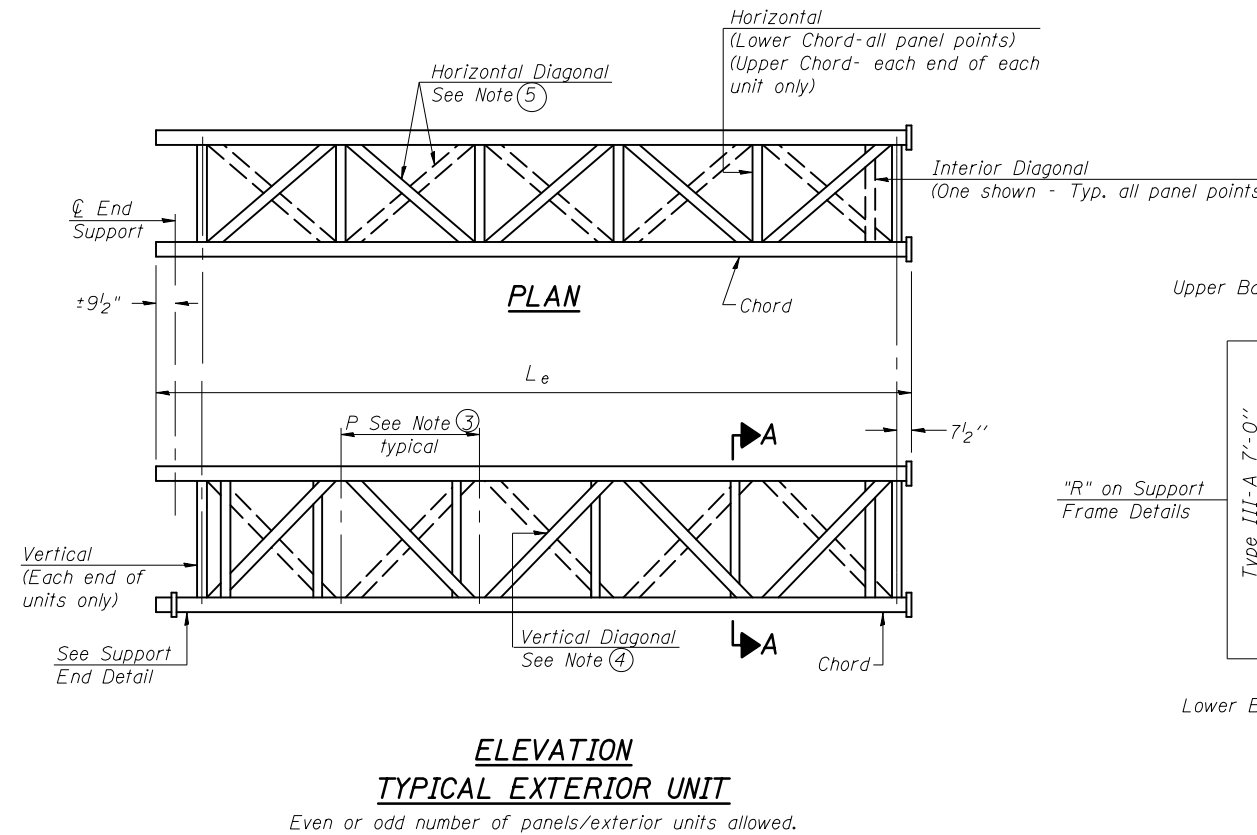
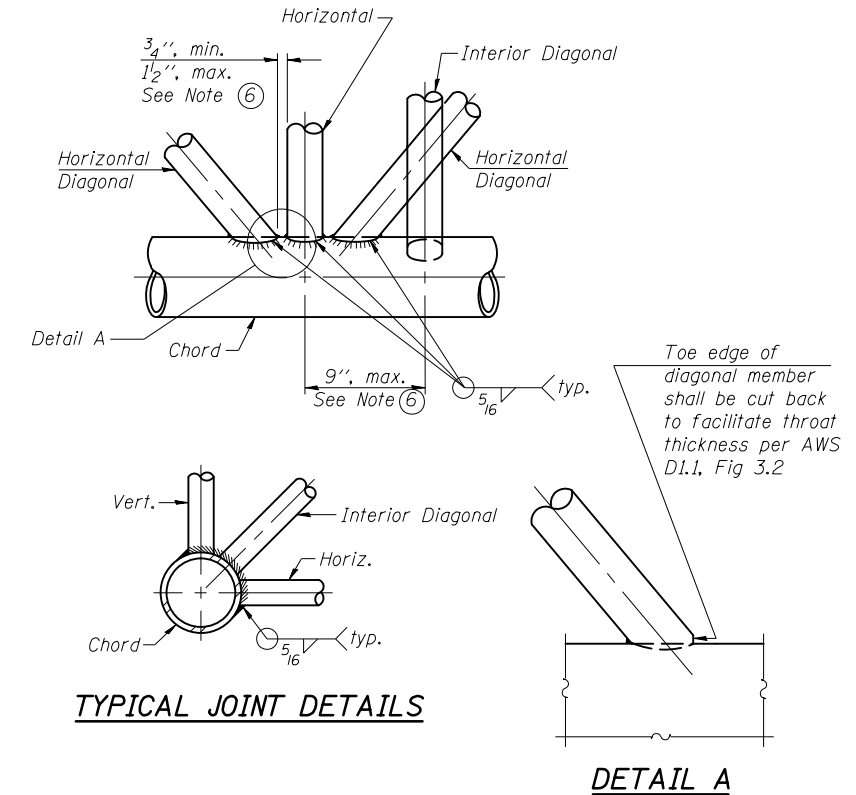
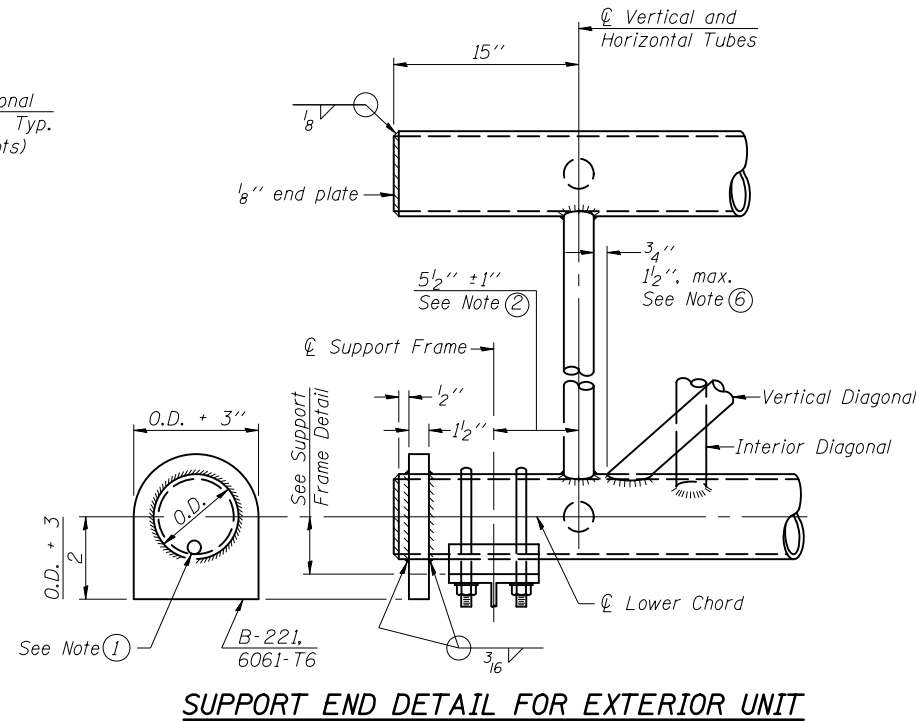
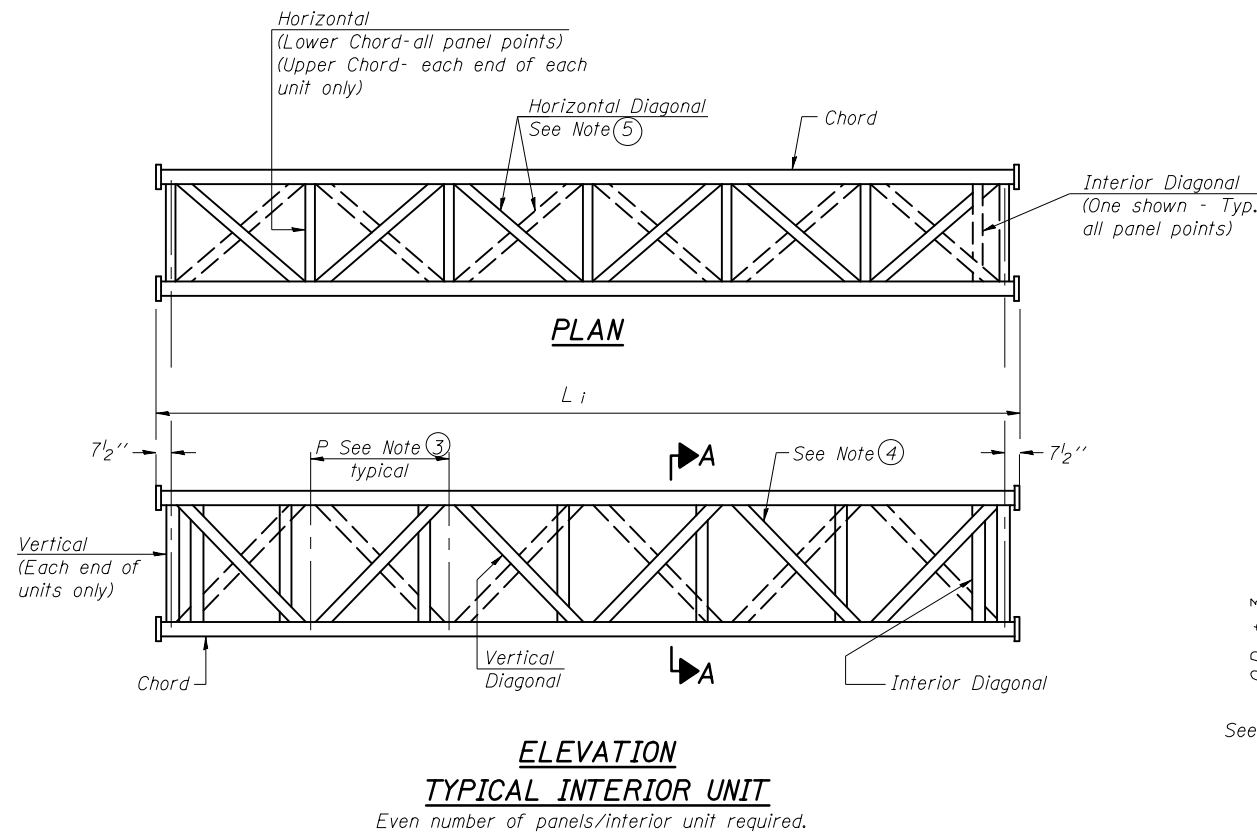
**DESIGN WIND LOADING DIAGRAM**

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

OS-A-1

8-21-13

FILE NAME = c:\pwwork\pwwork\cearlock\cearlock\0340463\PROJECT\camera plans.dgn	DESIGNED - USER NAME = cealockjd	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES - GENERAL PLAN & ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
MODELNAME#	DRAWN -	REVISIONS -			VAR.	FY2014 ITS-1	CHAMPAIGN	71	22	
	CHECKED -	REVISIONS -			CONTRACT NO. 70A26		ILLINOIS FED. AID PROJECT			
	DATE -	REVISIONS -			SCALE:	SHEET	OF	SHEETS	STA.	TO



- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" φ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 1/2" end dimension may vary by ± 1" to provide uniform panel spacing (P).
- ③ Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
- ④ Vertical Diagonals in front and back face shall alternate.
- ⑤ Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- ⑥ All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 3/4" minimum to 1 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

0S-A-2

6-1-12

FILE NAME =	USER NAME = ceerlockjd	DESIGNED -	REVISED -
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
*MODELNAME*	PLOT DATE = 6/26/2014	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

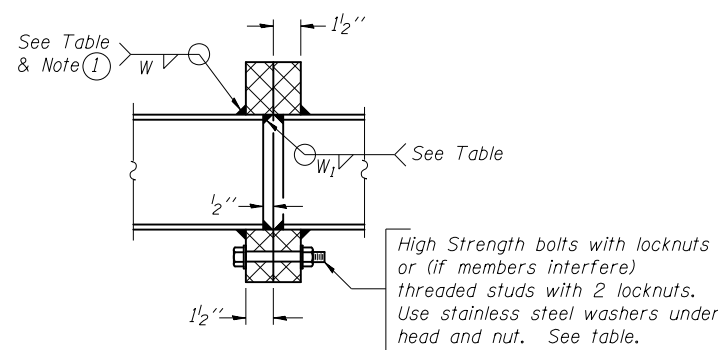
OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS  
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMAIN	71	23
CONTRACT NO. 70A26				
ILLINOIS FED. AID PROJECT				

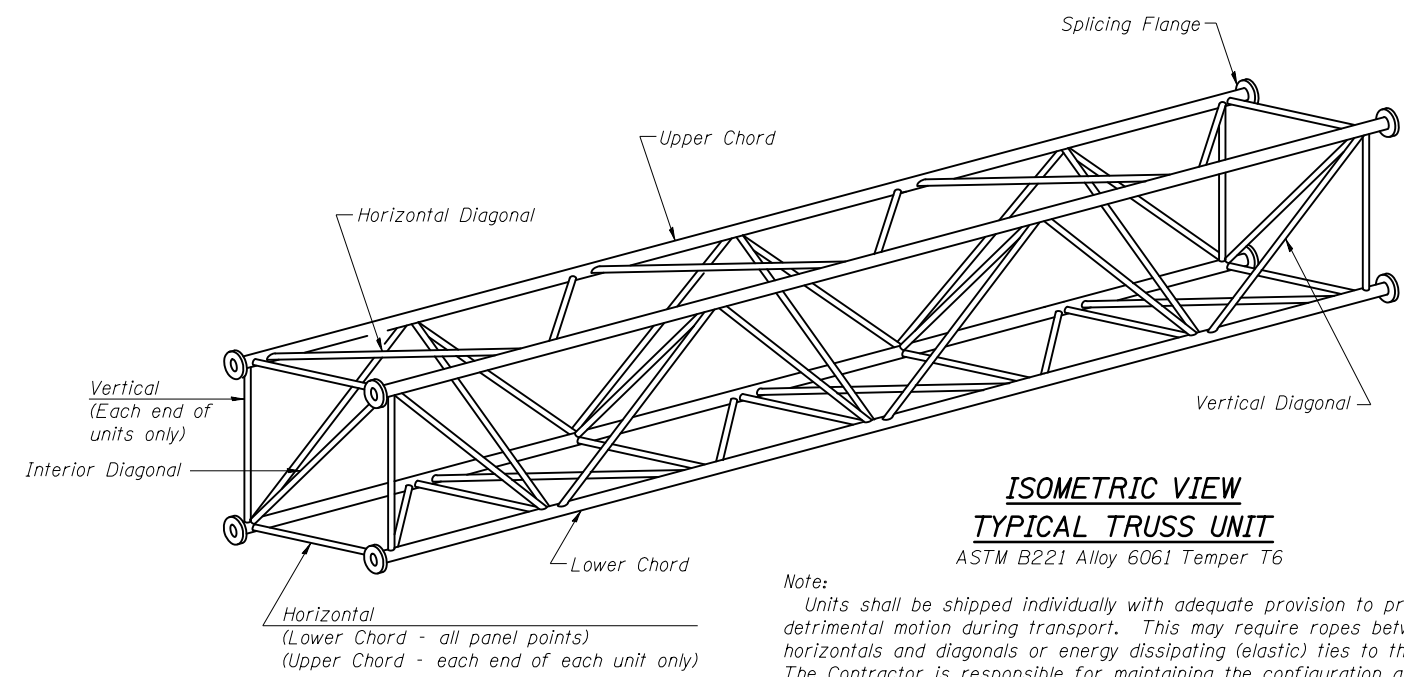
**TRUSS UNIT TABLE**

Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(L <sub>e</sub> )	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L <sub>i</sub> )	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W <sub>1</sub>		
5 S 010 I057 R226.45	472+50	III-A	7	37'-9"	5'-1 1/2"	—	—	—	—	7"	5/16"	3 1/4"	5/16"	1"	6	1"	7/16"	5/16"	11 1/2"	15"
5 S 010 I057 L242.78	890+96	III-A	7	38'-9 1/4"	5'-3 1/4"	—	—	—	—	7"	5/16"	3 1/4"	5/16"	1"	6	1"	7/16"	5/16"	11 1/2"	15"
5 S 010 I074 R172.83	1572+00	III-A	5	28'-0 1/4"	5'-2 3/4"	1	6	32'-7 1/2"	5'-2 3/4"	7"	5/16"	3 1/4"	5/16"	1 1/2"	6	1"	7/16"	5/16"	11 1/2"	15"
5 S 010 I074 L189.05	593+12	III-A	7	37'-9"	5'-1 1/2"	—	—	—	—	7"	5/16"	3 1/4"	5/16"	1"	6	1"	7/16"	5/16"	11 1/2"	15"
5 S 010 I072 R178.29	1778+15	III-A	6	30'-10 1/2"	4'-10"	—	—	—	—	7"	5/16"	3 1/4"	5/16"	3/4"	6	1"	7/16"	5/16"	11 1/2"	15"



**SECTION B-B**

① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



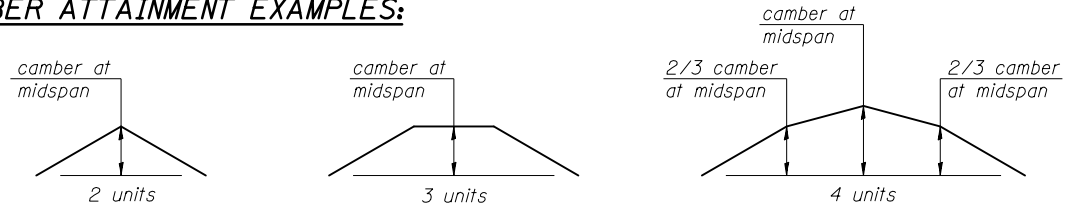
**ISOMETRIC VIEW TYPICAL TRUSS UNIT**  
ASTM B221 Alloy 6061 Temper T6

Note: Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.

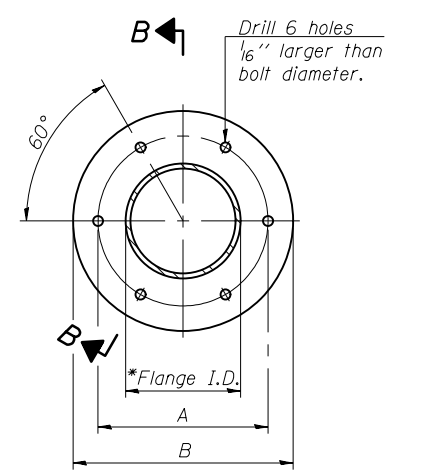
**CAMBER DIAGRAM**

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

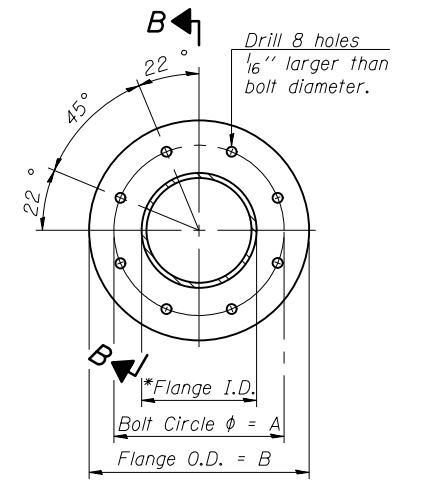
**CAMBER ATTAINMENT EXAMPLES:**



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



**TRUSS TYPES I-A, II-A, & III-A**



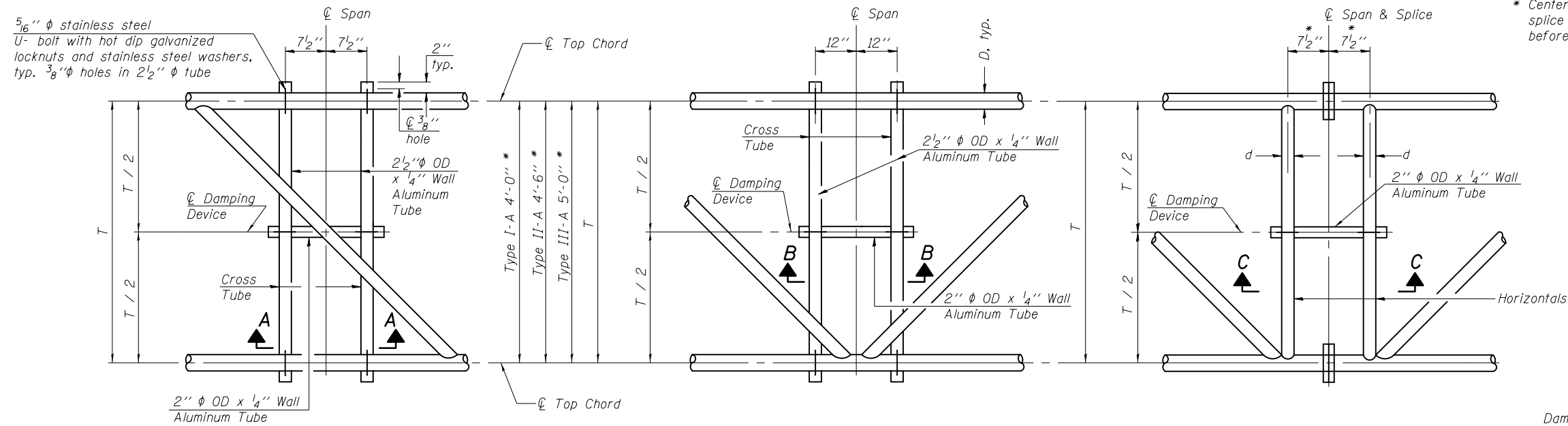
**TRUSS TYPES II-A & III-A**  
**SPLICING FLANGES**

ASTM B221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651  
\*To fit O.D. of Chord with maximum gap of 1/16".

OS4-A-2

6-1-12

FILE NAME =	USER NAME = ceerlockjd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I-A, II-A AND III-A</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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*MODELNAME*	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 70A26					
	PLOT DATE = 6/26/2014	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



\* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

**PLAN DETAIL "A"**  
 ☐ Span between Panel Points

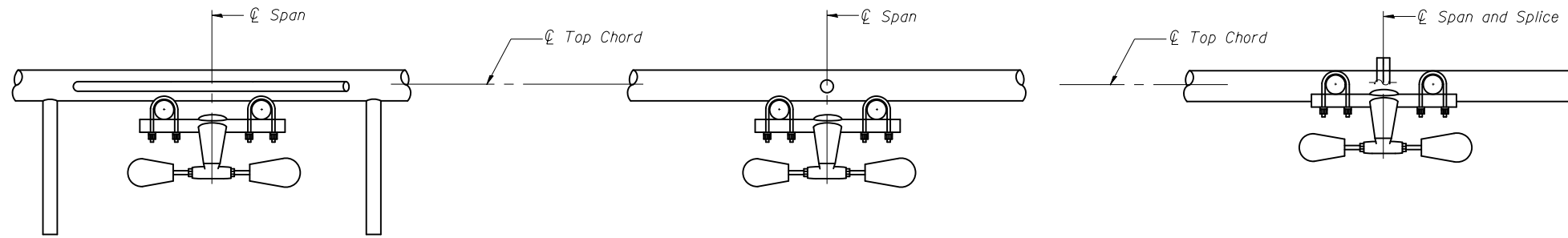
**PLAN DETAIL "B"**  
 ☐ Span at Panel Point

**PLAN DETAIL "C"**  
 ☐ Span at ☐ Chord Splice

**NOTES**

Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...

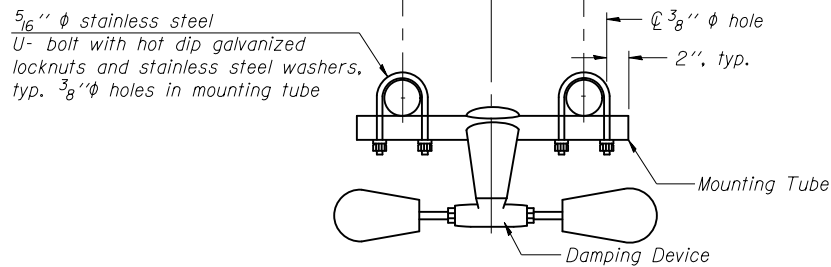
Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



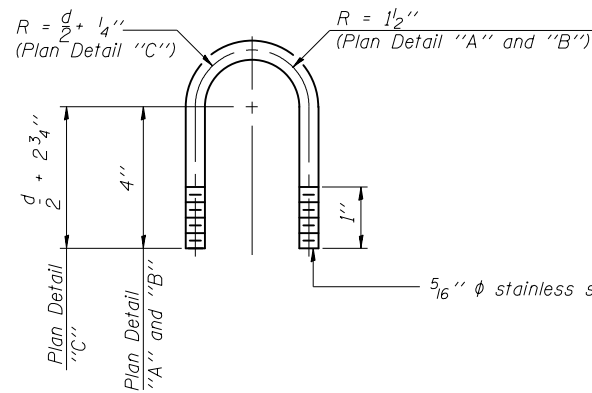
**SECTION A-A**

**SECTION B-B**

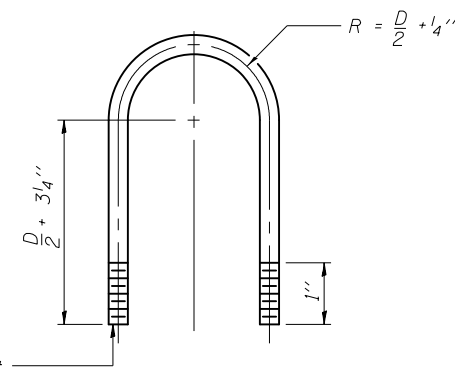
**SECTION C-C**



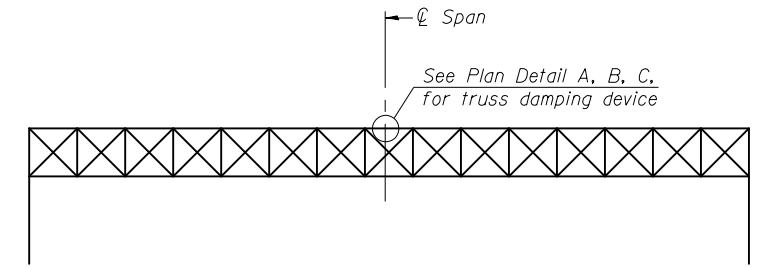
**TRUSS DAMPING DEVICE CONNECTION DETAIL**  
 (Typical)



**DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL**  
 (Typical)



**TOP CHORD TO CROSS TUBE U-BOLT DETAIL**  
 (Typical - Detail "A" and "B")



**ELEVATION**  
 Aluminum Overhead Sign Truss

OS-A-D

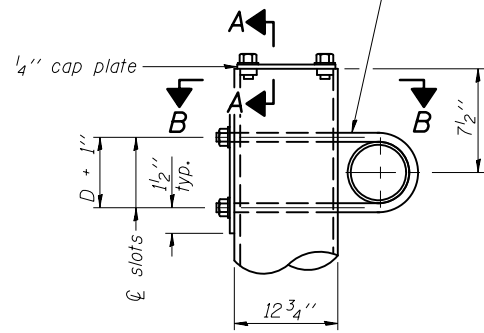
6-1-12

FILE NAME =	USER NAME = cealockjd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>OVERHEAD SIGN STRUCTURE DAMPING DEVICE</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ei:\pwwork\pwwork\cealockjd\0340463\p	Z camera plans.dgn	DRAWN -	REVISED -						VAR.	FY2014 ITS-1	CHAMPAIGN	71	25
*MODELNAME*	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -						CONTRACT NO. 70A26				
	PLOT DATE = 6/26/2014	DATE -	REVISED -						ILLINOIS FED. AID PROJECT				

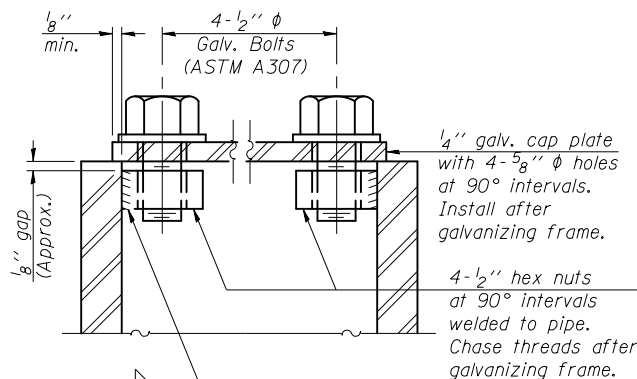
SCALE: SHEET OF SHEETS STA. TO STA.



3/4" φ stainless steel U-bolt.  
Provide two washers and two hexagon locknuts. (4)  
1 3/16" x 2" slots on 12" φ pipe.  
(4 slots required per pipe)

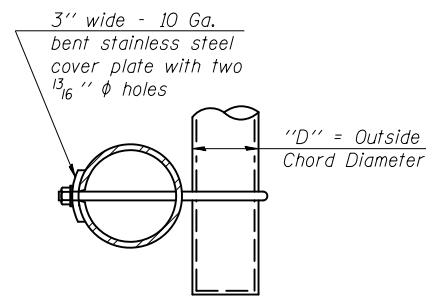


**DETAIL A**

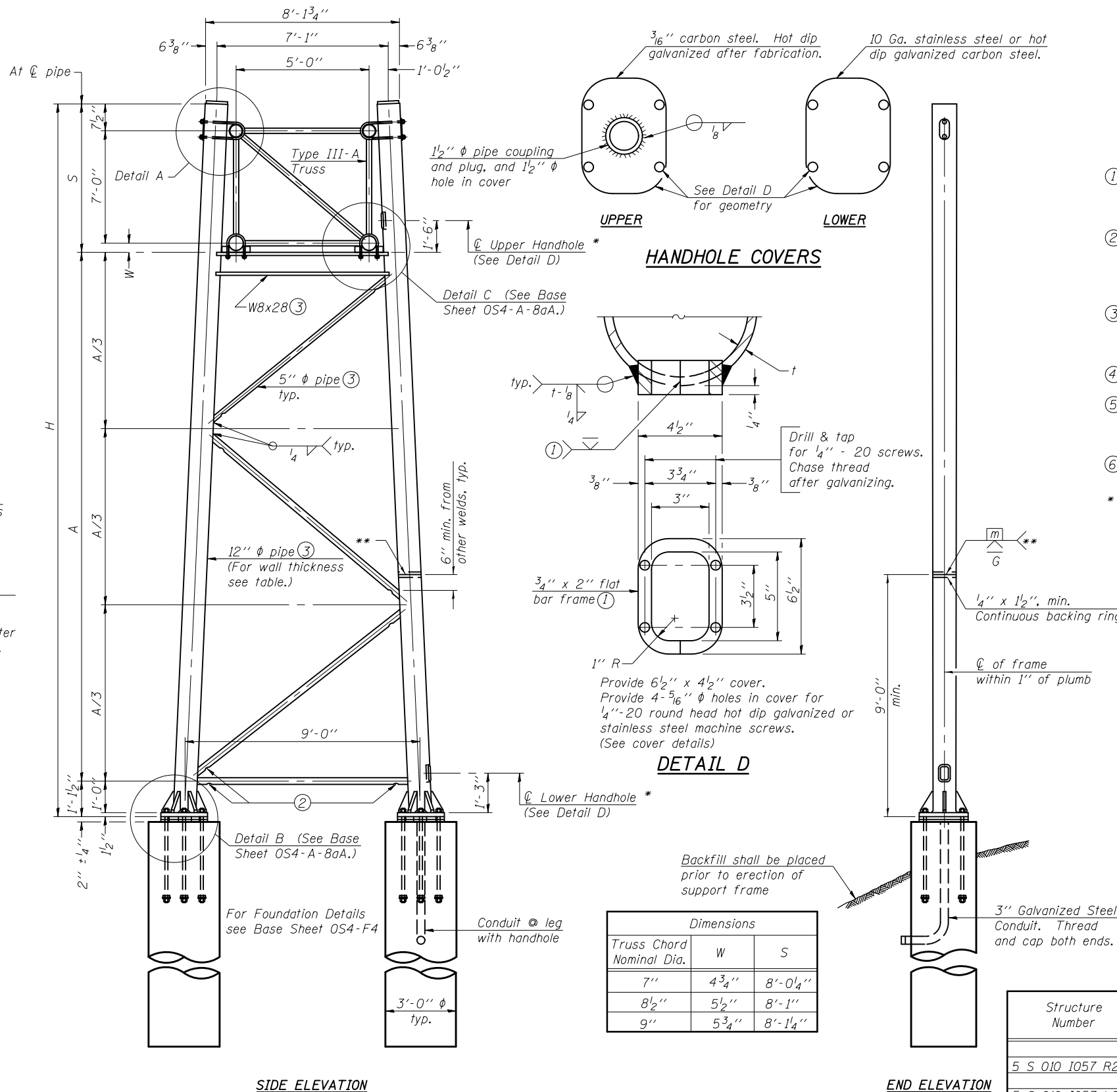


**SECTION A-A**

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



**SECTION B-B**



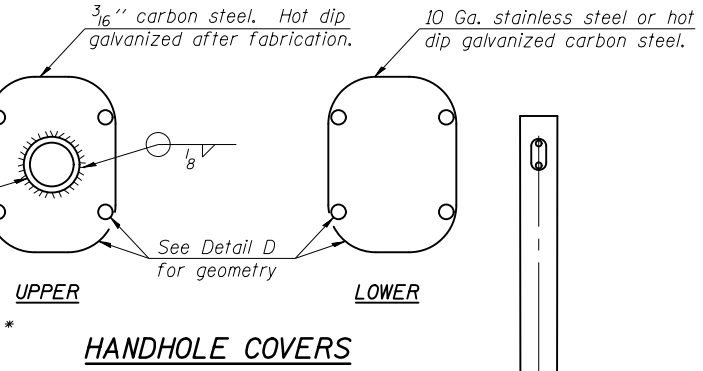
**SIDE ELEVATION**

**END ELEVATION**

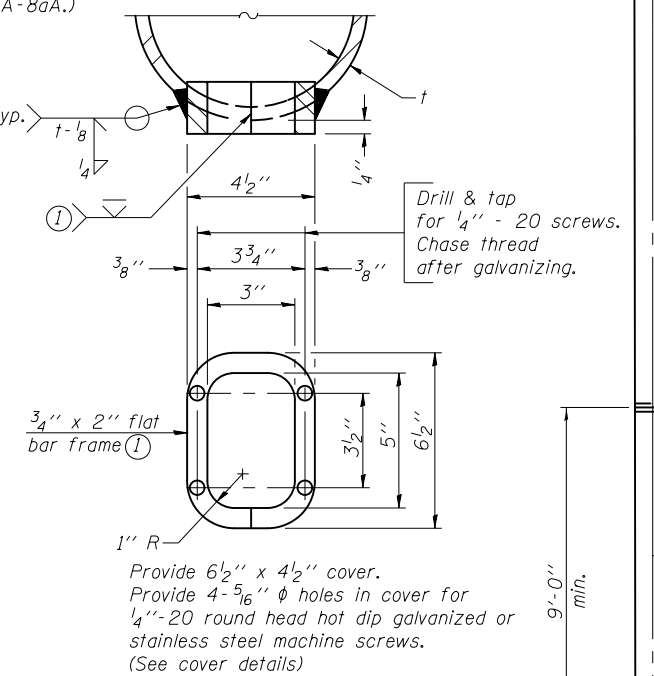
Dimensions		
Truss Chord Nominal Dia.	W	S
7"	4 3/4"	8'-0 1/4"
8 1/2"	5 1/2"	8'-1"
9"	5 3/4"	8'-1 1/4"

**TRUSS SUPPORT DETAILS**

(12" φ Pipe-Type III-A Truss)  
\*\* One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.



**HANDHOLE COVERS**



**DETAIL D**

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.  
Load combinations checked include deadload plus:  
a) 100% wind normal to sign, 20% parallel to sign  
b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μin or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

\* For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

Structure Number	Station	Support		Pipe Wall Thickness	H (6)	A
		Left	Right			
5 S 010 1057 R226.45	472+50	X	X	0.33	29'-1 3/4"	20'-0"
5 S 010 1057 L242.78	890+96	X	X	0.33	30'-1 3/4"	21'-0"
5 S 010 1074 R172.83	1572+00	X		0.33	30'-7 3/4"	21'-6"
			X	0.33	31'-7 3/4"	22'-6"
5 S 010 1074 L189.05	593+12	X	X	0.33	29'-1 3/4"	20'-0"
5 S 010 1072 R178.29	1778+15	X	X	0.33	29'-1 3/4"	20'-0"

OS4-A-8a

6-1-12

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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
*MODELNAME*	PLOT DATE = 6/26/2014	DATE -	REVISED -

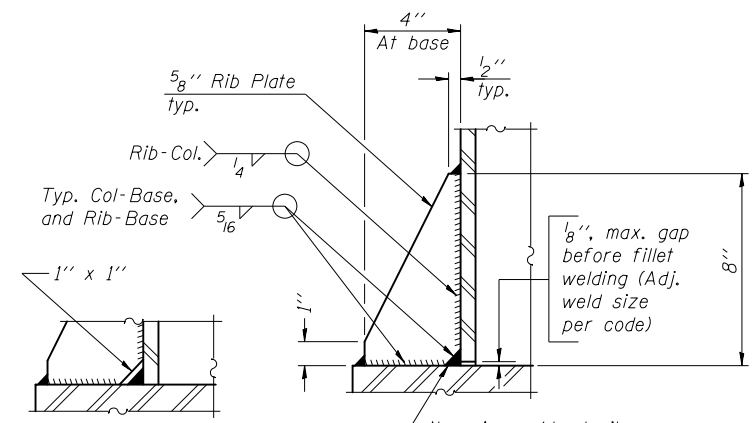
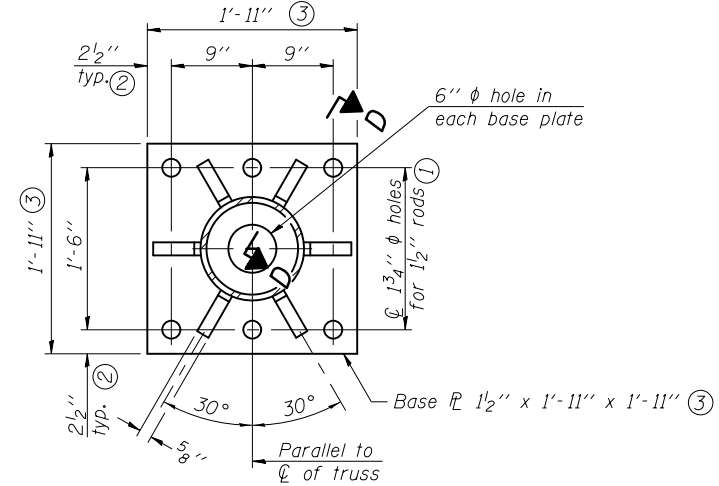
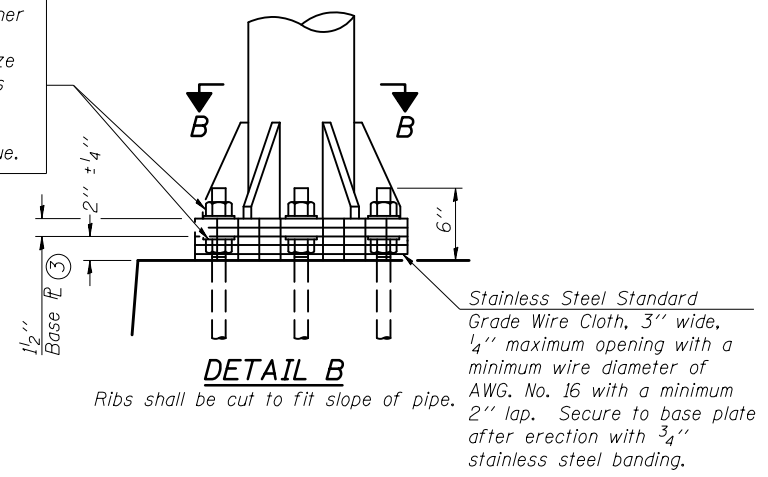
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES - SUPPORT FRAME  
FOR TYPE III-A ALUMINUM TRUSS**

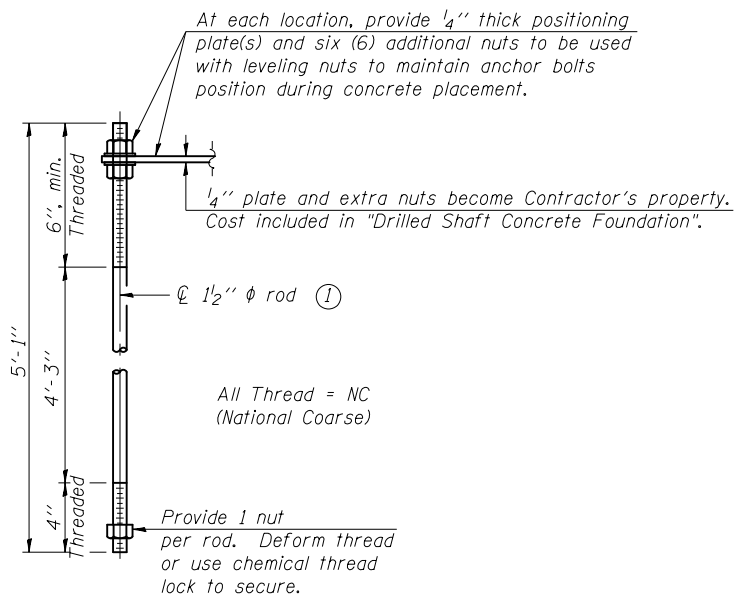
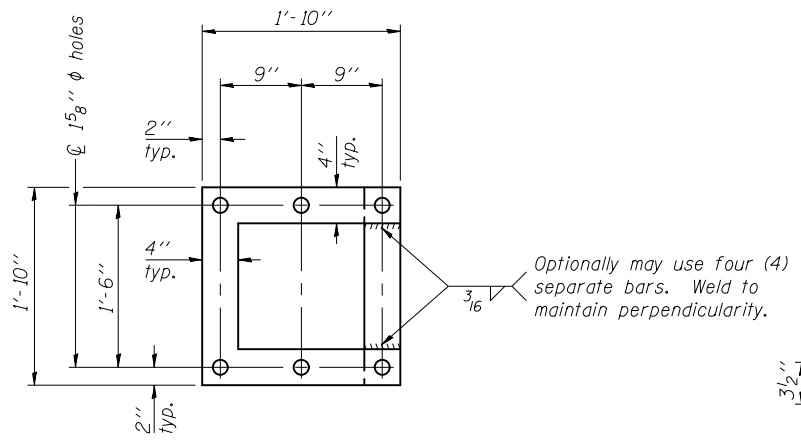
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	26
CONTRACT NO. 70A26			ILLINOIS FED. AID PROJECT	

Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.



\*\* Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.



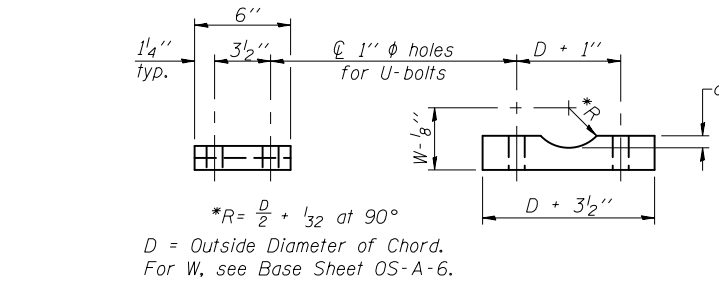
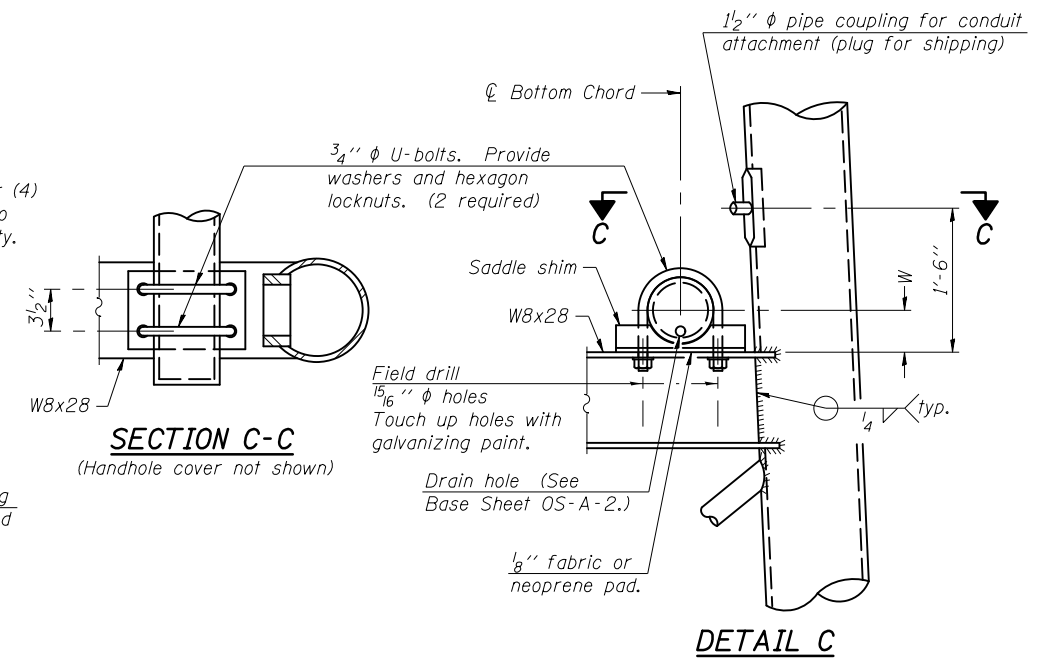
**TYPE III-A TRUSS**  
**12"  $\phi$  PIPE SUPPORT FRAME DETAILS**

Notes:  
For Type III-A Truss spans greater than 150 ft, and up to 160 ft.:

① 1 3/4"  $\phi$  rod, 2"  $\phi$  holes

② 2 3/4" edge distance

③ Base Pl 1 5/8" x 1' - 11 1/2" x 1' - 11 1/2"



Truss Chord Nominal Dia.	a
7"	1"
8 1/2"	1 1/4"
9"	1 3/8"

**SADDLE SHIM DETAIL**  
ASTM B26 Alloy 356-F  
or  
ASTM B209 Alloy 6061-T651  
(4 required per sign truss)

OS4-A-8aA

6-1-12

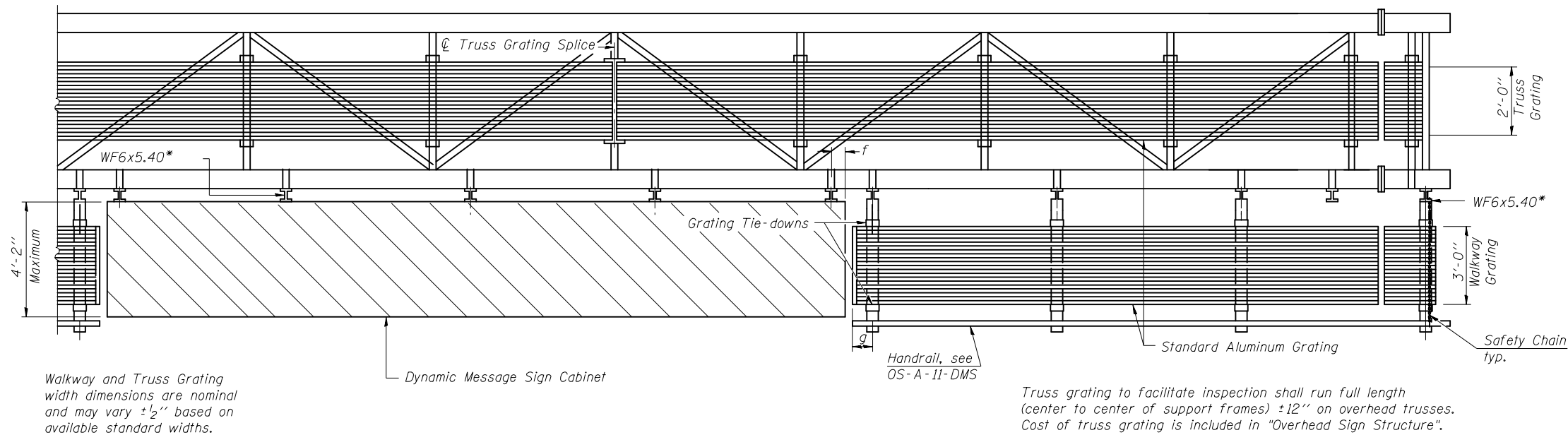
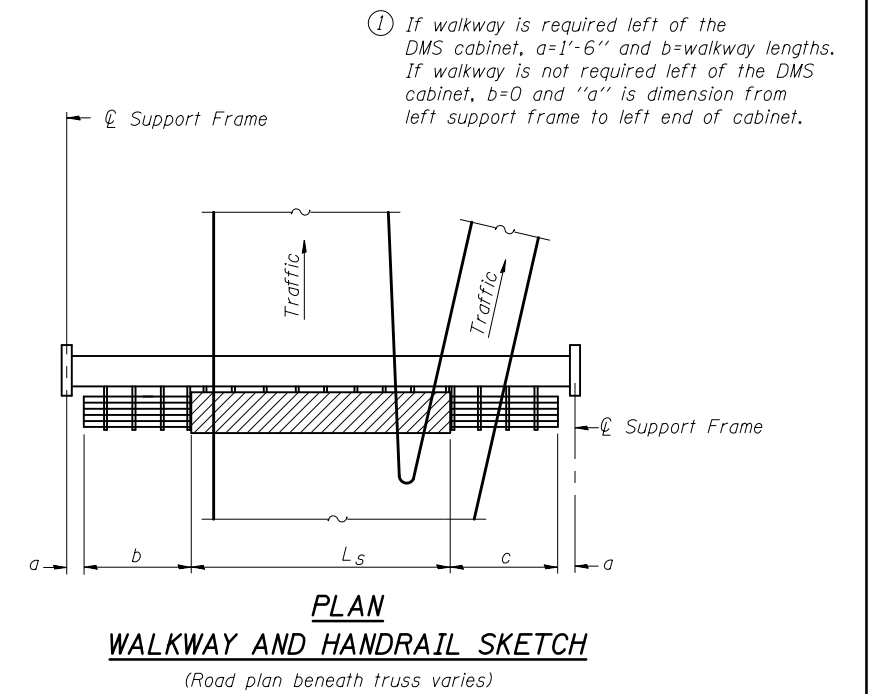
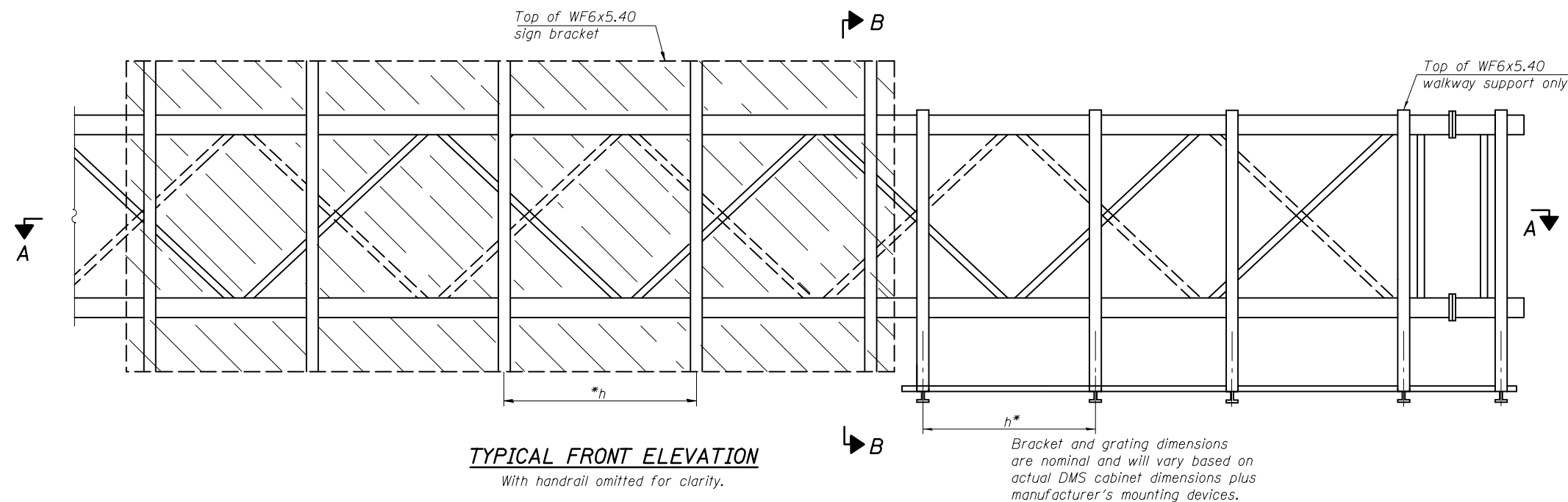
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
*MODELNAME*	PLOT DATE = 6/26/2014	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME FOR TYPE III-A ALUMINUM TRUSS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	27
			CONTRACT NO. 70A26	
ILLINOIS FED. AID PROJECT				



**BRACKET TABLE**

WF6x5.40 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

**SECTION A-A**  
Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Grating and handrail splices placed as needed.

Notes:  
\* Space walkway brackets WF6x5.40 for efficiency and within limits shown:  
f = 12" maximum, 4" minimum (End of sign to  $\text{\O}$  of nearest bracket)  
g = 12" maximum, 4" minimum (End of walkway grating to  $\text{\O}$  of nearest support bracket)  
h = 6'-0" maximum ( $\text{\O}$  to  $\text{\O}$  sign and/or walkway support brackets, WF6x5.40)

Maximum DMS weight = 5000 lbs. 4'-2" maximum cabinet depth includes depth of cabinet plus connection to WF6x5.40.  
For Section B-B and Grating Splice Details, see Base Sheet OS-A-10-DMS.  
For Handrail Splice Details, see Base Sheet OS-A-11-DMS.

Structure Number	Station	a	b	c	L <sub>s</sub>	Walkway Grating and Handrail Lengths
5 S 010 1057 R226.45	472+50		10'-0"	10'-0"	Exact	10' (Lt.) & 10' (Rt.)
5 S 010 1057 L242.78	890+96		10'-0"	10'-0"	Dimensions	10' (Lt.) & 10' (Rt.)
5 S 010 1074 R172.83	1572+00		10'-0"	10'-0"	of DMS	10' (Lt.) & 10' (Rt.)
5 S 010 1074 L189.05	593+12		10'-0"	10'-0"	Cabinets	10' (Lt.) & 10' (Rt.)
5 S 010 1072 R178.29	1778+15		10'-0"	10'-0"	Unknown	10' (Lt.) & 10' (Rt.)

OS-A-9-DMS 6-1-12

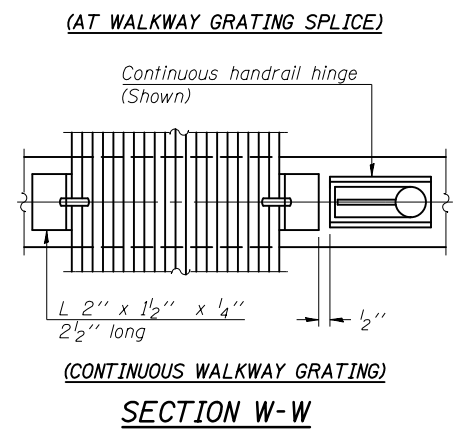
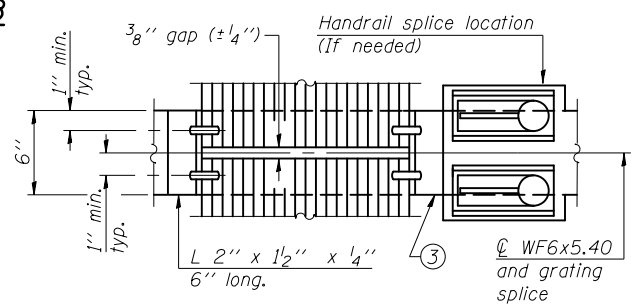
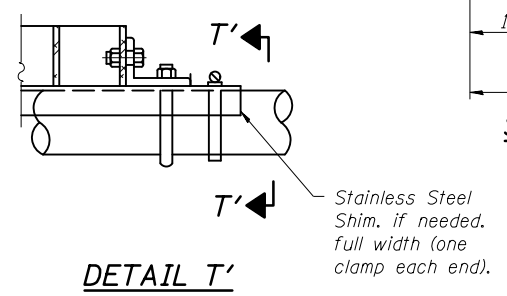
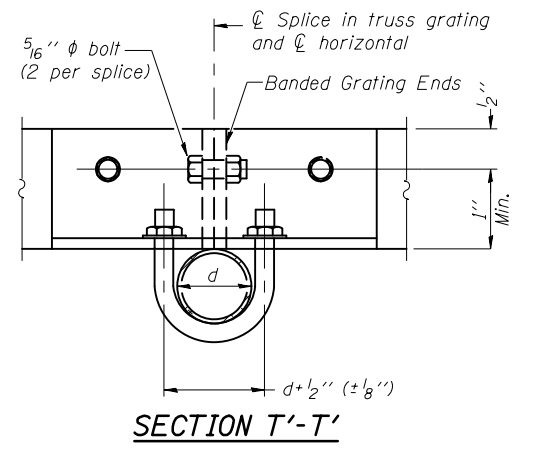
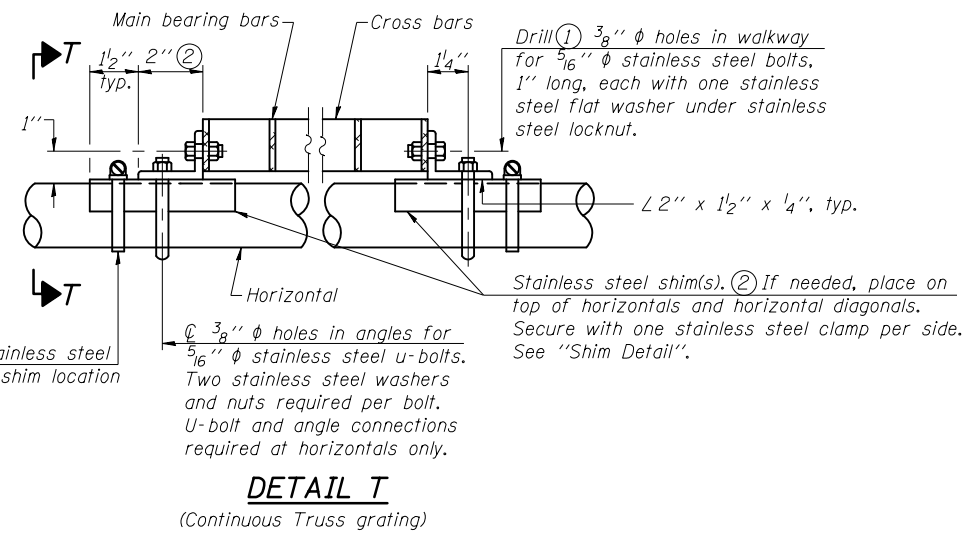
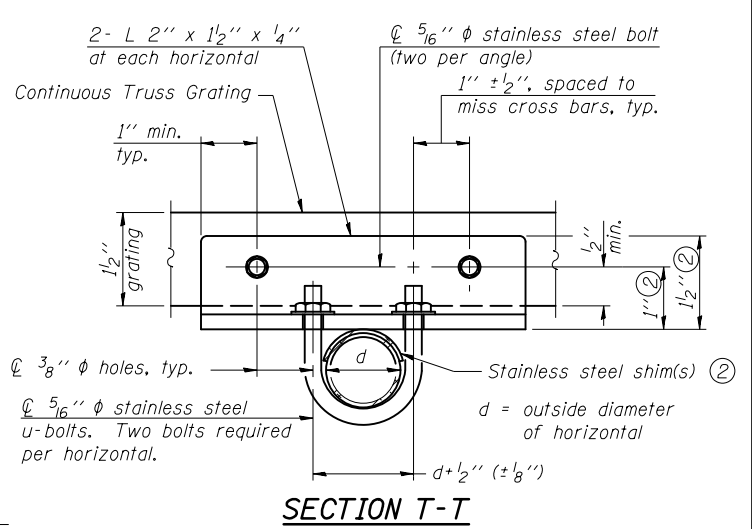
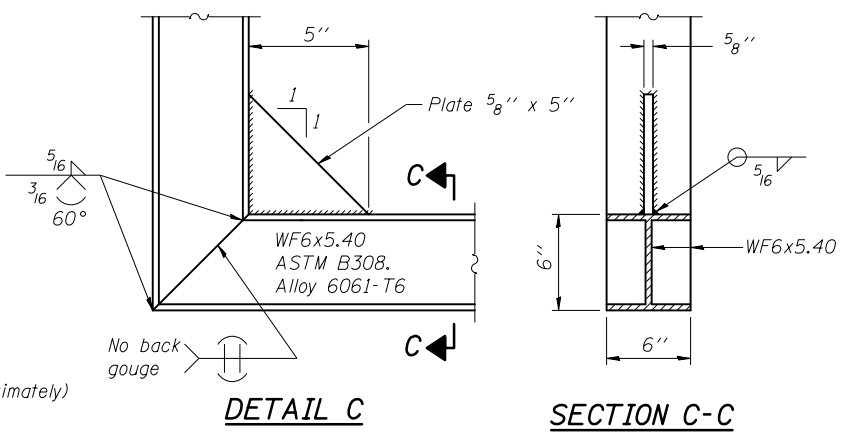
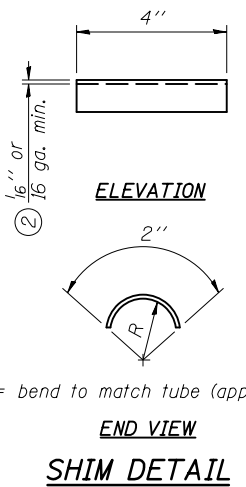
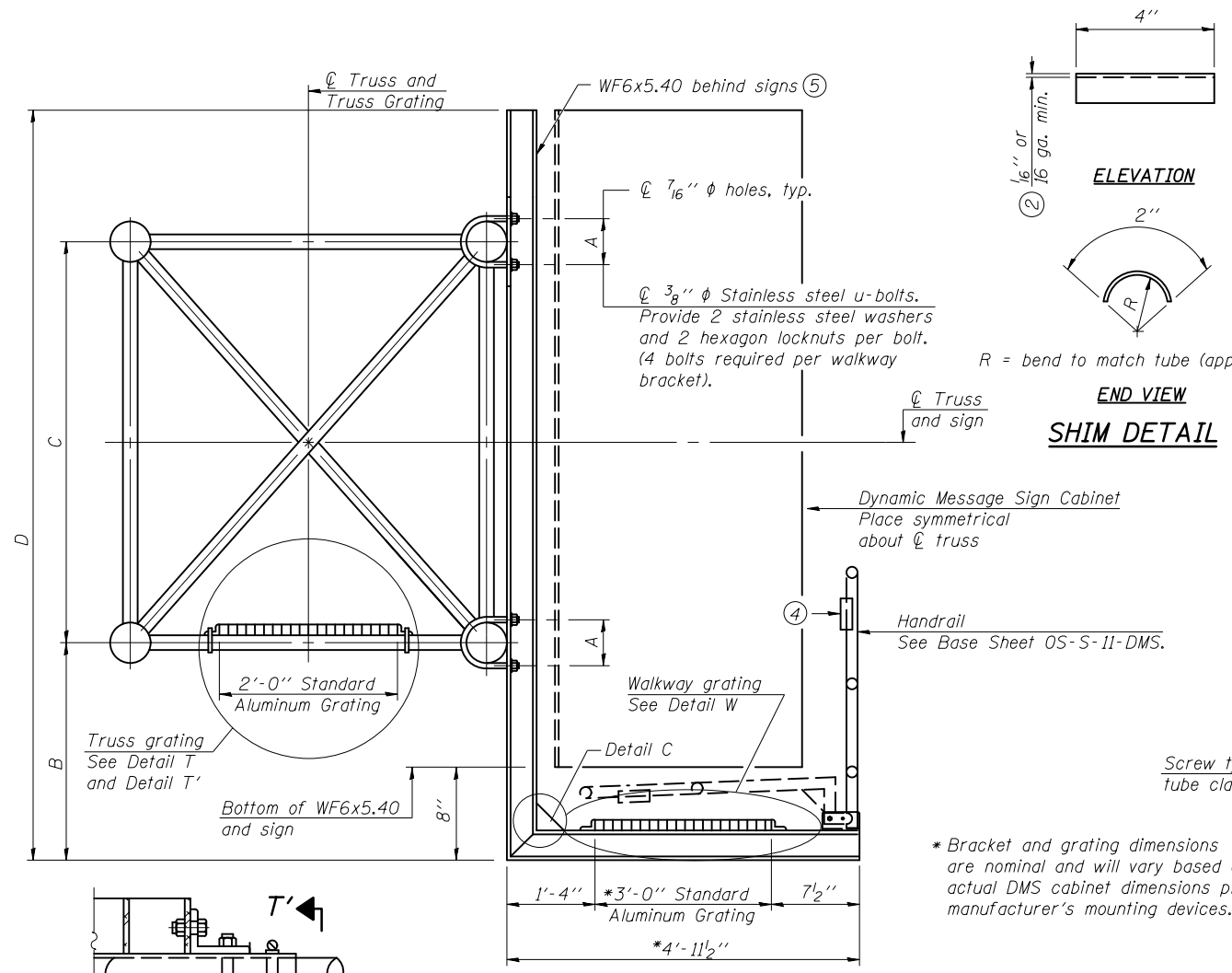
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	PLOT DATE = 6/26/2014	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES  
ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	28
CONTRACT NO. 70A26			ILLINOIS FED. AID PROJECT	



**SPECIFICATIONS FOR STANDARD ALUMINUM GRATING**

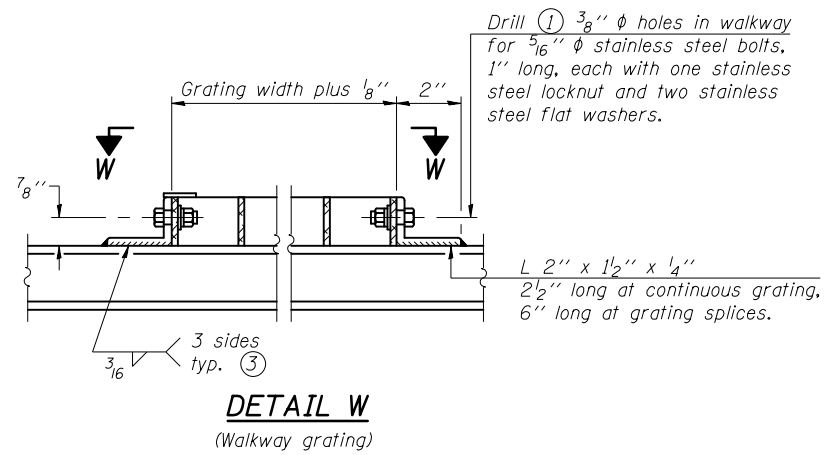
Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.  
 Cross bars shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

**OR**

Aluminum Grating with modified "I" sections for main bearing bars shall meet the following requirements:  
 Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in. per bar, a depth of 1 1/2", spaced on 1 3/16" centers.  
 Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	⑥ B	C	⑥ D
5 S 010 I057 R226.45	472+50			7'-0"	
5 S 010 I057 L242.78	890+96			7'-0"	
5 S 010 I074 R172.83	1572+00			7'-0"	
5 S 010 I074 L189.05	593+12			7'-0"	
5 S 010 I072 R178.29	1778+15			7'-0"	

- ① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- ② Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- ③ If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OS-A-11.)
- ④ L 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- ⑤ Cabinet manufacturer must design and supply hardware for connection of cabinet to WF6's. Bolts must be stainless steel or hot dip galvanized high strength per IDOT specifications.
- ⑥ Based on actual height of tallest sign given on OS-A-1.



OS-A-10-DMS 6-1-12

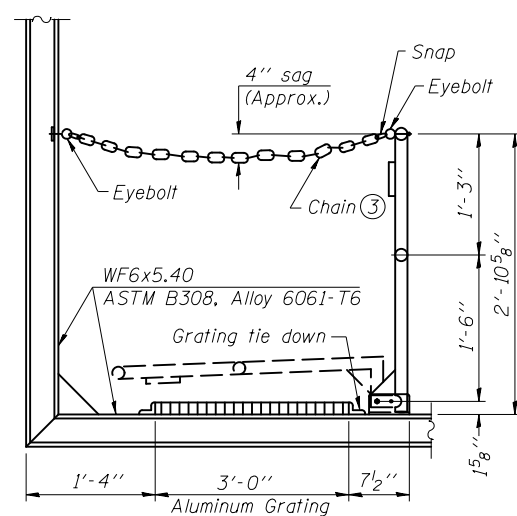
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

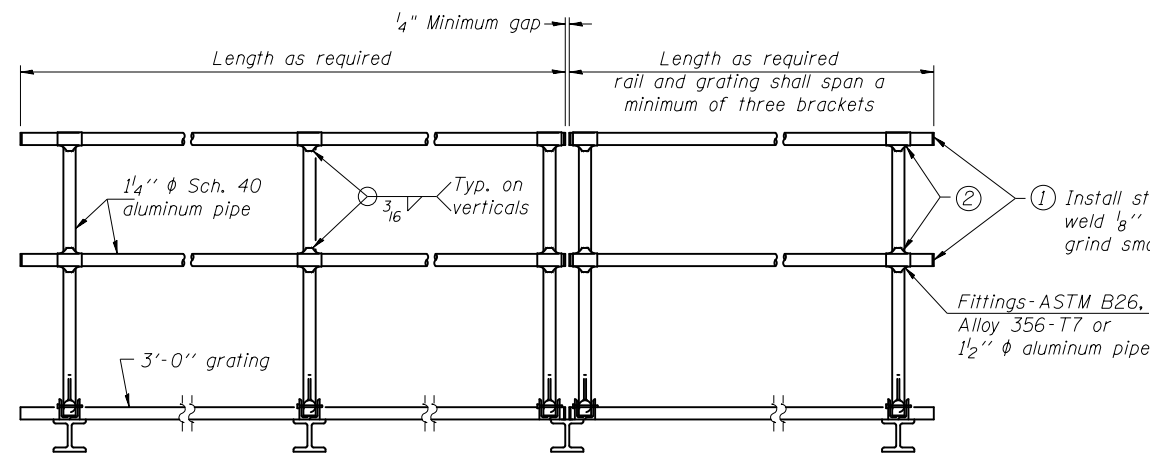
OVERHEAD SIGN STRUCTURES  
ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS

SCALE: SHEET OF SHEETS STA. TO STA.

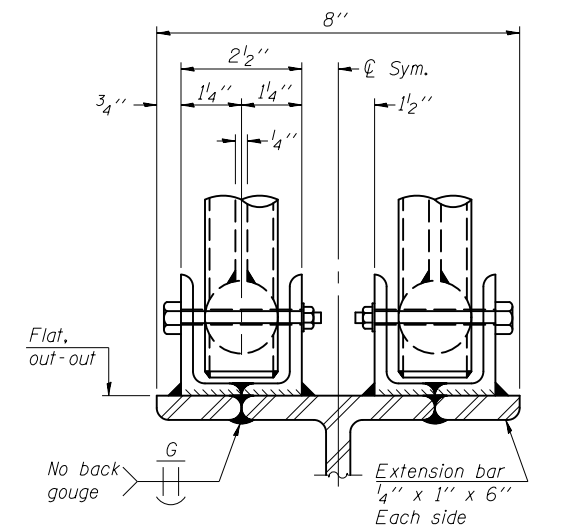
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	29
CONTRACT NO. 70A26			ILLINOIS FED. AID PROJECT	



**SIDE ELEVATION**  
(Showing safety chain w/o sign)



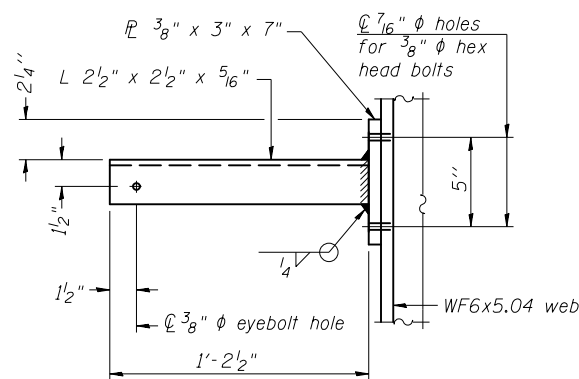
**FRONT ELEVATION**



**ELEVATION AT HANDRAIL JOINT**

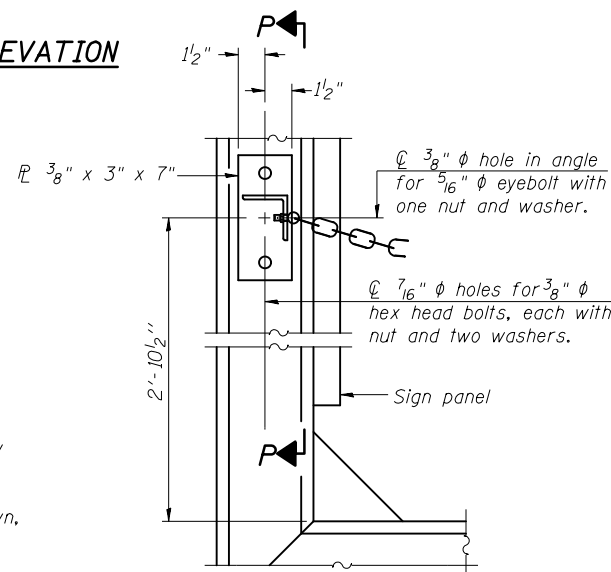
**HANDRAIL DETAILS**

Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.



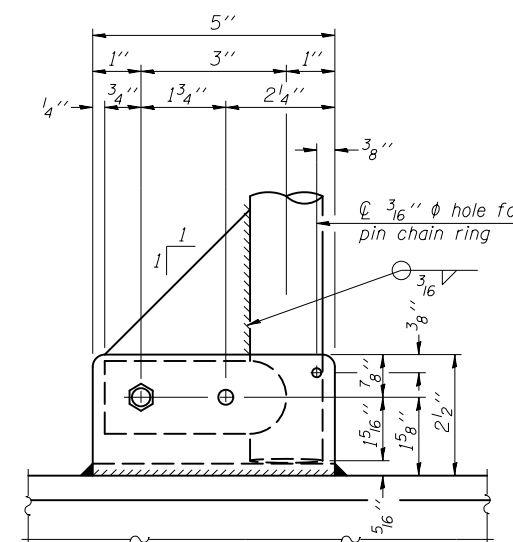
**SECTION P-P**

- ② Horizontal handrail member shall be continuous thru fitting. Provide 7/16" hole in fitting for 3/8" bolt. Field drill 7/16" hole in horizontal rail member. Provide washer and locknut for bolt. (Use 5/16" eyebolts in 7/16" holes on top rail at ends only.)
- ③ 3/16" type 304L stainless steel chain, approximately 12 links per foot.
- ④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.

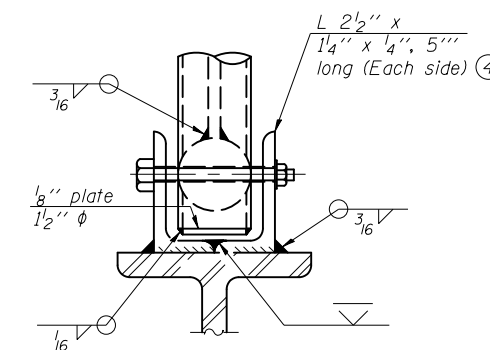


**ALTERNATE SAFETY CHAIN ATTACHMENT**

(With Sign Present)  
Items not shown same as "Side Elevation" of "Handrail Details"

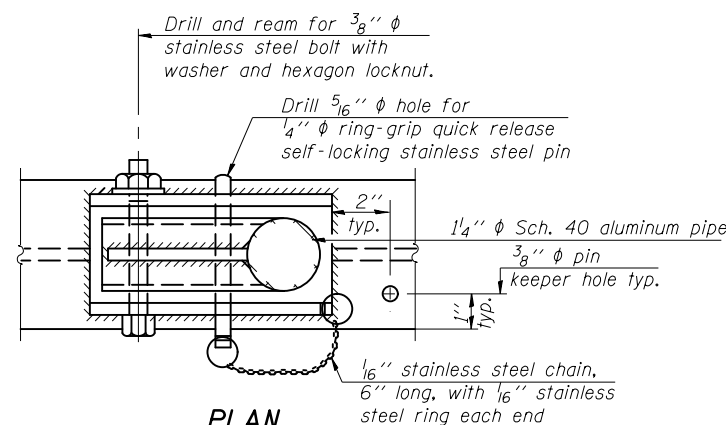


**SIDE ELEVATION**

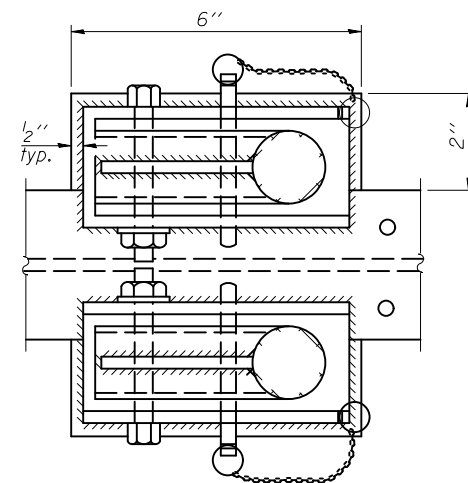


**FRONT ELEVATION**

See "ELEVATION" at right for dimensions.

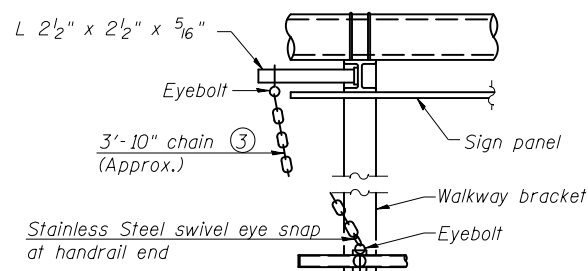


**PLAN  
DETAIL E HANDRAIL HINGE**



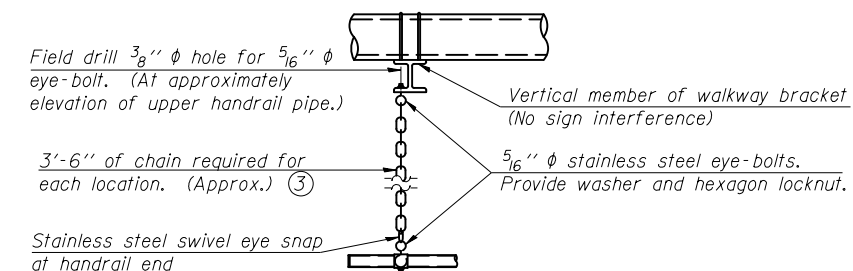
**PLAN AT HANDRAIL JOINT**

Details not shown same as "PLAN"



**ALTERNATE SAFETY CHAIN ATTACHMENT**

Details not shown similar to "Safety Chain" Details  
(Walkway omitted for clarity)



**SAFETY CHAIN**

One required for each end of each walkway.

OS-A-11-DMS

6-1-12

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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES  
ALTERNATE ALUMINUM HANDRAIL DETAILS FOR DMS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	30
CONTRACT NO. 70A26			ILLINOIS FED. AID PROJECT	

**BAR LIST - EACH FOUNDATION**

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	—
#4 bar spiral (E) - see Side Elevation				

**NOTES:**

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

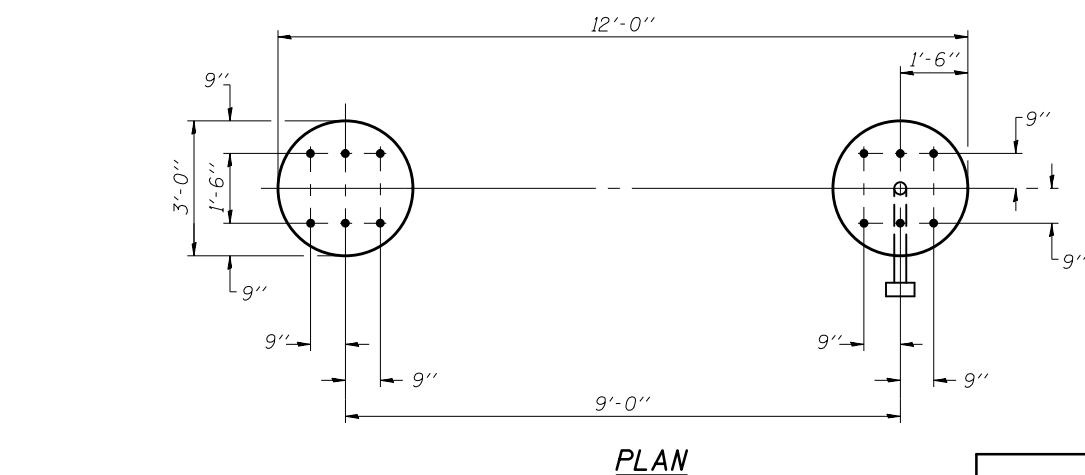
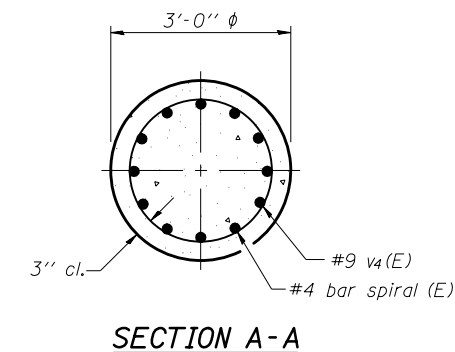
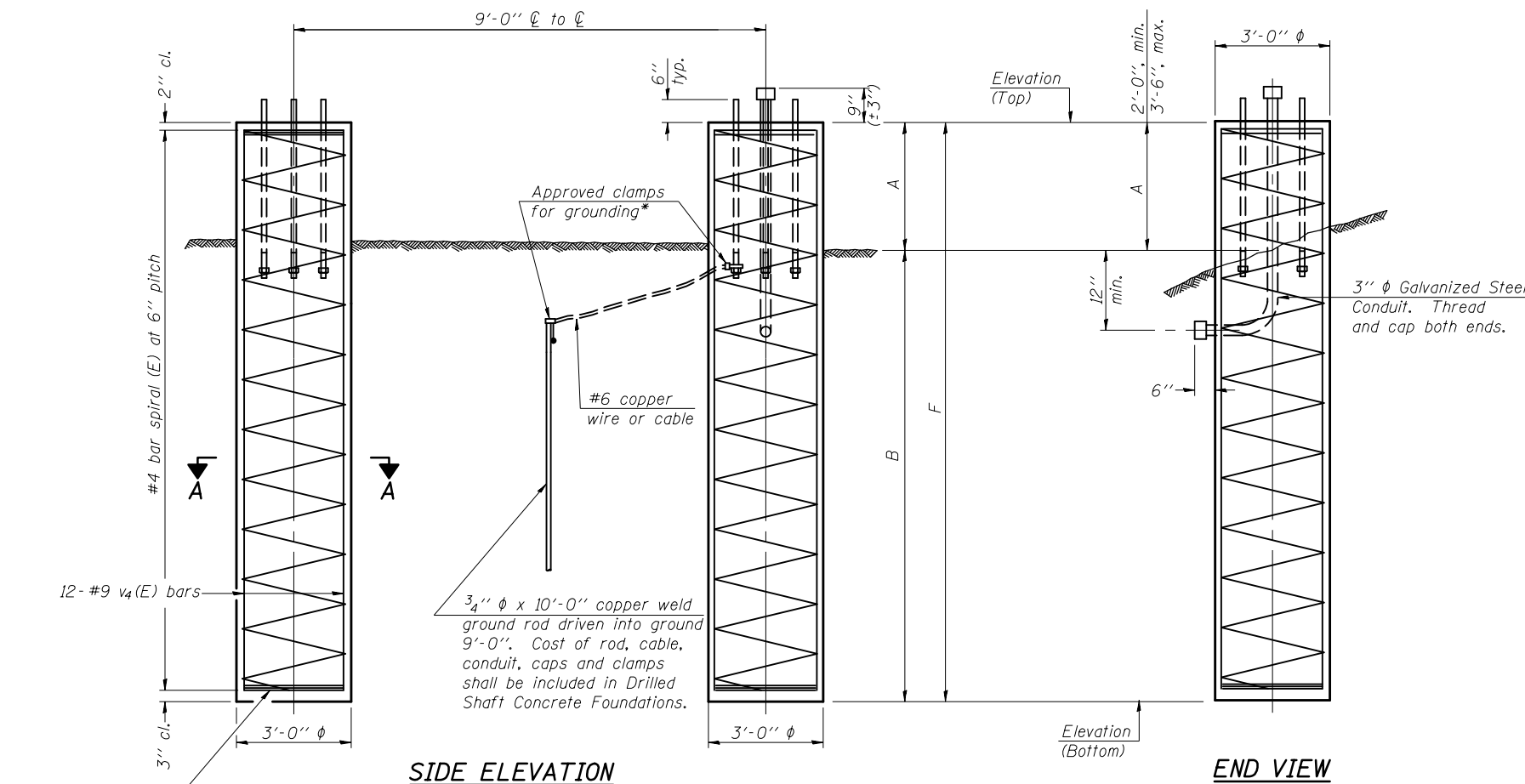
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



For anchor rod size and placement, see Support Frame Detail Sheet.

\* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

**DETAILS FOR 12" φ SUPPORT FRAME  
TYPE III-A TRUSS**

Structure Number	Station	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A	B	F	
5 S 010 I057 R226.45	472+50	691.21	670.21	3'-0"	18'-0"	21'-0"	691.21	669.96	3'-3"	18'-0"	21'-3"	22.2
5 S 010 I057 L242.78	890+96	735.82	714.82	3'-0"	18'-0"	21'-0"	735.82	714.63	3'-2 1/4"	18'-0"	21'-2 1/4"	22.1
5 S 010 I074 R172.83	1572+00	762.49	741.49	3'-0"	18'-0"	21'-0"	761.49	740.49	3'-0"	18'-0"	21'-0"	22.0
5 S 010 I074 L189.05	593+12	685.97	664.97	3'-0"	18'-0"	21'-0"	685.97	664.79	3'-2 1/4"	18'-0"	21'-2 1/4"	22.1
5 S 010 I072 R178.29	1778+15	719.99	698.68	3'-3 3/4"	18'-0"	21'-3 3/4"	719.99	699.24	2'-9"	18'-0"	20'-9"	22.1

OS4-F4

6-1-12

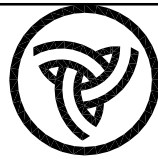
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*MODELNAME*	PLOT DATE = 6/26/2014	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES  
DRILLED SHAFT DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMAIN	71	31
CONTRACT NO. 70A26				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

ROUTE FAI Rt 57 DESCRIPTION Digital Message Sign at 800N over I-57 LOGGED BY Woods

SECTION DTS Structure LOCATION SE, SEC. 21, TWP. 18N, RNG. 8E, 3rd PM GPS:

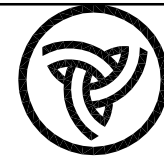
COUNTY Champaign DRILLING METHOD Hollow Stem Auger HAMMER TYPE Manual

STRUCT. NO. 5 S 010 1057 R226.40 Station 473+60.46 BORING NO. 1 Pier Station 473+52 Offset 0.0 ft CL Ground Surface Elev. 687.0 ft

Table with columns for Soil Description, Depth (ft), Blow Count (B), SPT Value (S), and Moisture Content (M). Includes soil types like Black Silty Clay, Brown Mottled Clay Loam, and Gray Clay Till.

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available. The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrator E-Estimate) The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE FAI Rt 57 DESCRIPTION Digital Message Sign 1/4 mile North of 010-0172 LOGGED BY CNA

SECTION DTS Structure LOCATION NW, SEC. 8, TWP. 20N, RNG. 9E, 3rd PM GPS: 40.20868N, 88.21786W

COUNTY Champaign DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 5 S 010 1057 L242.75 Station 891+04 BORING NO. 1 Sign Truss Station 891+04 Offset 18.0 ft West of SBCL Ground Surface Elev. 734.9 ft

Table with columns for Soil Description, Depth (ft), Blow Count (B), SPT Value (S), and Moisture Content (M). Includes soil types like Asphalt Shoulder, Gravel, Brown/Gray Clay Loam, and Gray Clay Till.

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available. The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrator E-Estimate) The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

5/13/2013 7:42:39 AM O:\MATERIALS\SOILS\2013 SOILS WORK\MESAGE BOARDS I-57,74,72\DTS\010-0179.GPJ

7/26/2013 11:10:59 AM S:\SOILS\2013 SOILS WORK\MESAGE BOARDS I-57,74,72\DTS\010-0172.GPJ

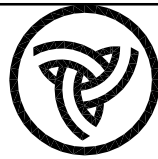
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Table with columns for SCALE, SHEET, OF, SHEETS, STA., TO, STA.

Table with columns for F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., VAR., FY2014 ITS-1, CHAMPAIGN, CONTRACT NO. 70A26, ILLINOIS FED. AID PROJECT





SOIL BORING LOG

ROUTE FAI Rt 74 DESCRIPTION Digital Message Sign East of CH 50 Overhead LOGGED BY CNA

SECTION DTS Structure LOCATION SW, SEC. 14, TWP. 20N, RNG. 7E, 3rd PM GPS: 40.19177N, 88.38072W

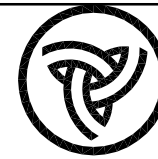
COUNTY Champaign DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

Table with 4 columns: STRUCT. NO., BORING NO., Station, Ground Surface Elev. and 4 columns: D, B, U, M (DEPTH, LOCATION, QUANTITY, METHOD).

Main soil log table with columns for depth (ft), soil description, and blow count data (D, B, U, M).

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available. The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrator E-Estimate) The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE FAI Rt 74 DESCRIPTION Digital Message Sign at CH 24 over FAI 74 LOGGED BY CNA

SECTION DTS Structure LOCATION NE, SEC. 7, TWP. 19N, RNG. 10E, 3rd PM GPS: 40.1207N, 88.1048W

COUNTY Champaign DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

Table with 4 columns: STRUCT. NO., BORING NO., Station, Ground Surface Elev. and 4 columns: D, B, U, M (DEPTH, LOCATION, QUANTITY, METHOD).

Main soil log table with columns for depth (ft), soil description, and blow count data (D, B, U, M).

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available. The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrator E-Estimate) The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

5/16/2013 10:27:14 AM S:\SOILS\2013 SOILS WORK\MESAGE BOARDS I-57,74,72\DTSC\CH50.GPJ

5/10/2013 1:18:04 PM O:\MATERIALS\SOILS\2013 SOILS WORK\MESAGE BOARDS I-57,74,72\010-0153.GPJ

Table with 4 columns: FILE NAME, USER NAME, DESIGNED, REVISED, DRAWN, CHECKED, DATE.

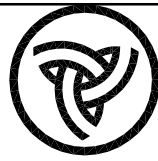
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: SHEET OF SHEETS STA. TO STA.

Table with 5 columns: F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO.

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

ROUTE FAI Rt 72 DESCRIPTION Digital Message Sign at CH19 over I-72 LOGGED BY CNA

SECTION DTS Structure LOCATION NW, SEC. 12, TWP. 19N, RNG. 7E, 3rd PM GPS:

COUNTY Champaign DRILLING METHOD Hollow Stem Auger HAMMER TYPE Manual

STRUCT. NO. 5 S 010 1072  
Station R178.30  
1780+09.74

BORING NO. 1 Pier  
Station 20+00  
Offset 10.0 ft Rt.  
Ground Surface Elev. 716.0 ft

D E P T H (ft)

B L O W S (/6")

U C S Qu (tst)

M O I S T (%)

Surface Water Elev. \_\_\_\_\_ ft

Stream Bed Elev. \_\_\_\_\_ ft

Groundwater Elev.:

First Encounter 676.0 ft ▼

Upon Completion \_\_\_\_\_ ft

After 3.5 Hrs. 713.5 ft ▼

D E P T H (ft)

B L O W S (/6")

U C S Qu (tst)

M O I S T (%)

Soil Description	D	B	U	M	Soil Description	D	B	U	M
(ft)	(/6")	(tst)	(%)		(ft)	(/6")	(tst)	(%)	
Stiff Brown Gray Mottled Clay					Hard & Very Stiff Gray Clay Loam Till (continued)	16	2.5	E	14
						17	2.5	E	
	5	1.0	B	18					
	-5					-25	19	2.5	E
	710.0								
Very Stiff Brown Gray Mottled Clay Loam Till						25	4.3	S	10
	15	2.2	B	13					
	13	2.1	B	14					
	-10					-30	22	4.0	E
	20	2.8	B	11			20	3.2	B
	702.0								
Hard & Very Stiff Gray Clay Loam Till						-35	16	2.1	B
	17	4.3	B	11					
	17	3.0	B	11			17	2.3	B
	-20								

End of Boring

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.  
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer E-Estimate)  
The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

5/13/2013 7:39:45 AM O:\MATERIALS\SOILS\2013 SOILS WORK\MESAGE BOARDS I-57,74,72\DTS\010-0146.GPJ

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

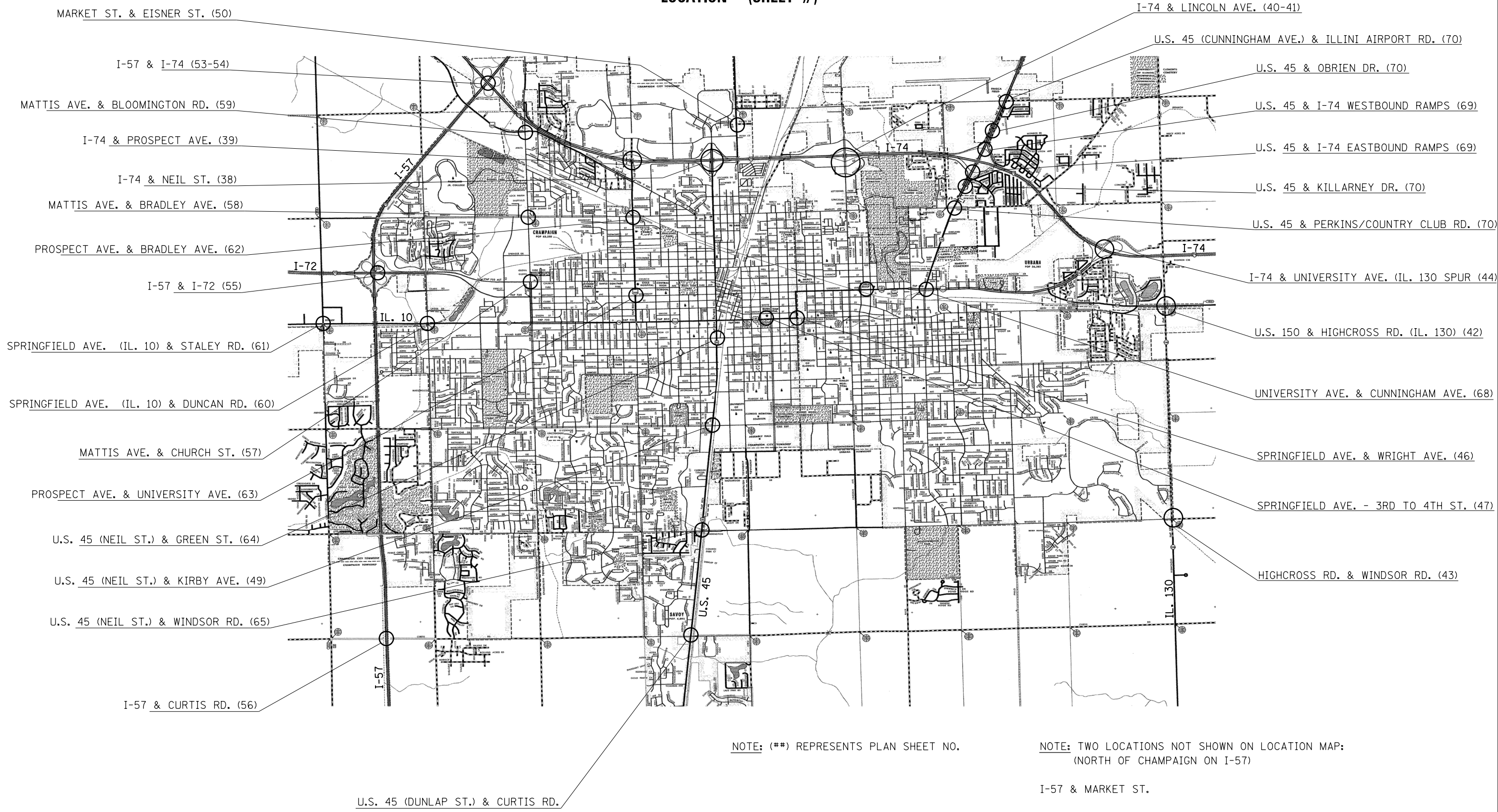
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	34
CONTRACT NO. 70A26			ILLINOIS FED. AID PROJECT	

# LOCATION MAP

FOR CLOSED CIRCUIT CAMERA, FIBER OPTIC CABLE AND EQUIPMENT INSTALLATIONS

LOCATION (SHEET #)



NOTE: (\*\*) REPRESENTS PLAN SHEET NO.

NOTE: TWO LOCATIONS NOT SHOWN ON LOCATION MAP:  
(NORTH OF CHAMPAIGN ON I-57)

I-57 & MARKET ST.  
LEVERETTE STORAGE FACILITY

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		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	35
			CONTRACT NO. 70A26	
ILLINOIS FED. AID PROJECT				

# PTZ CAMERA INSTALLATION

NEIL ST.  
&  
I-74

(NOT TO SCALE)

## CAMERA & CONDUIT /CABLE LAYOUT



REMOVAL OF POLE FOUNDATION = 1 EA.  
POLE AND CABLE REMOVAL = 1 EA.  
REMOVE EXISTING SURVEILLANCE CAMERA EQUIPMENT = 1 EA.  
SALVAGE EXISTING CAMERA

LIGHT POLE, GALVANIZED STEEL, 50' MH  
CONCRETE FOUNDATION 30" - 8' - 15" BC  
INSTALL PAN/TILT/ZOOM CAMERA

INSTALL POLE-MOUNT CAMERA INTERFACE CABINET

INSTALL UNMANAGED ETHERNET SWITCH  
IN PROPOSED POLE-MOUNT CABINET

### BILL OF MATERIALS

NEIL ST. & I-74

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	247
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	7
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	348
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 12 3C	FOOT	383
DRILL EXISTING HANDHOLE	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	3
CLOSED CIRCUIT TELEVISION CABINET	EACH	1
LIGHT POLE, STEEL 50 FT. M.H., TENON MOUNT	EACH	1
ETHERNET SWITCH	EACH	2
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	429
REMOVAL OF POLE FOUNDATION	EACH	1
POLE AND CABLE REMOVAL	EACH	1
REMOVE EXISTING SURVEILLANCE CAMERA EQUIPMENT	EACH	1

2" PVC CONDUIT - 247'  
1 FO 62.5/125 SM12F; 1 NO. 12 1C, TRACER;  
1 NO. 12 3C, SIG.  
DRILL EXIST. HANDHOLE = 1 EA.

EXIST. GS CONDUIT - 2 1/2" - 87'  
ADD: 1 FO 62.5/125 SM6F; 1 NO. 12 1C, TRACER  
1 NO. 12 3C, SIG.

(2) EXIST. GS CONDUIT - 4" - 14'  
ADD: 1 FO 62.5/125 SM6F; 1 NO. 12 1C, TRACER;  
1 NO. 12 3C, SIG.

MODIFY EXIST. CONT. CABINET = 1 EA.  
RE-TERMINATE EXIST. FIBER &  
TERMINATE NEW SM6F IN NEW  
ENCLOSURE

NEIL ST. & I-74 WB OFF-RAMP

MODIFY EXIST. CONT. CABINET = 1 EA.  
RE-TERMINATE EXIST. FIBER

NEIL ST. & KENYON RD.

MODIFY EXIST. CONT. CABINET = 1 EA.  
RE-TERMINATE EXIST. FIBER  
INSTALL MANAGED ETHERNET SWITCH

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. TO STA.

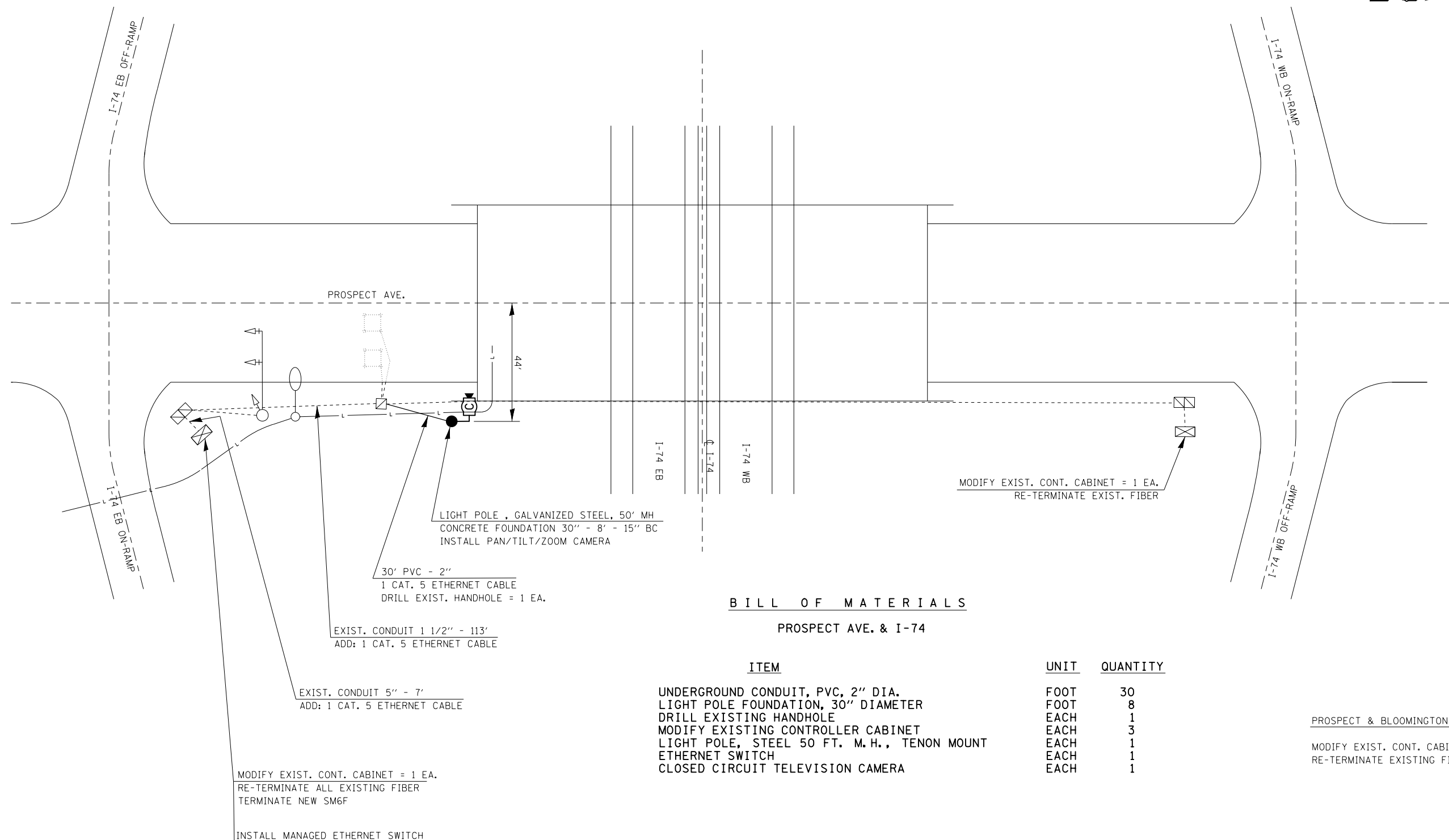
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VAR.	FY2014 ITS-1	CHAMPAIGN	71	36
CONTRACT NO. 70A26			ILLINOIS FED. AID PROJECT	

# PTZ CAMERA INSTALLATION

PROSPECT AVE.  
&  
I-74

(NOT TO SCALE)

CAMERA & CONDUIT /CABLE LAYOUT



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. TO STA.

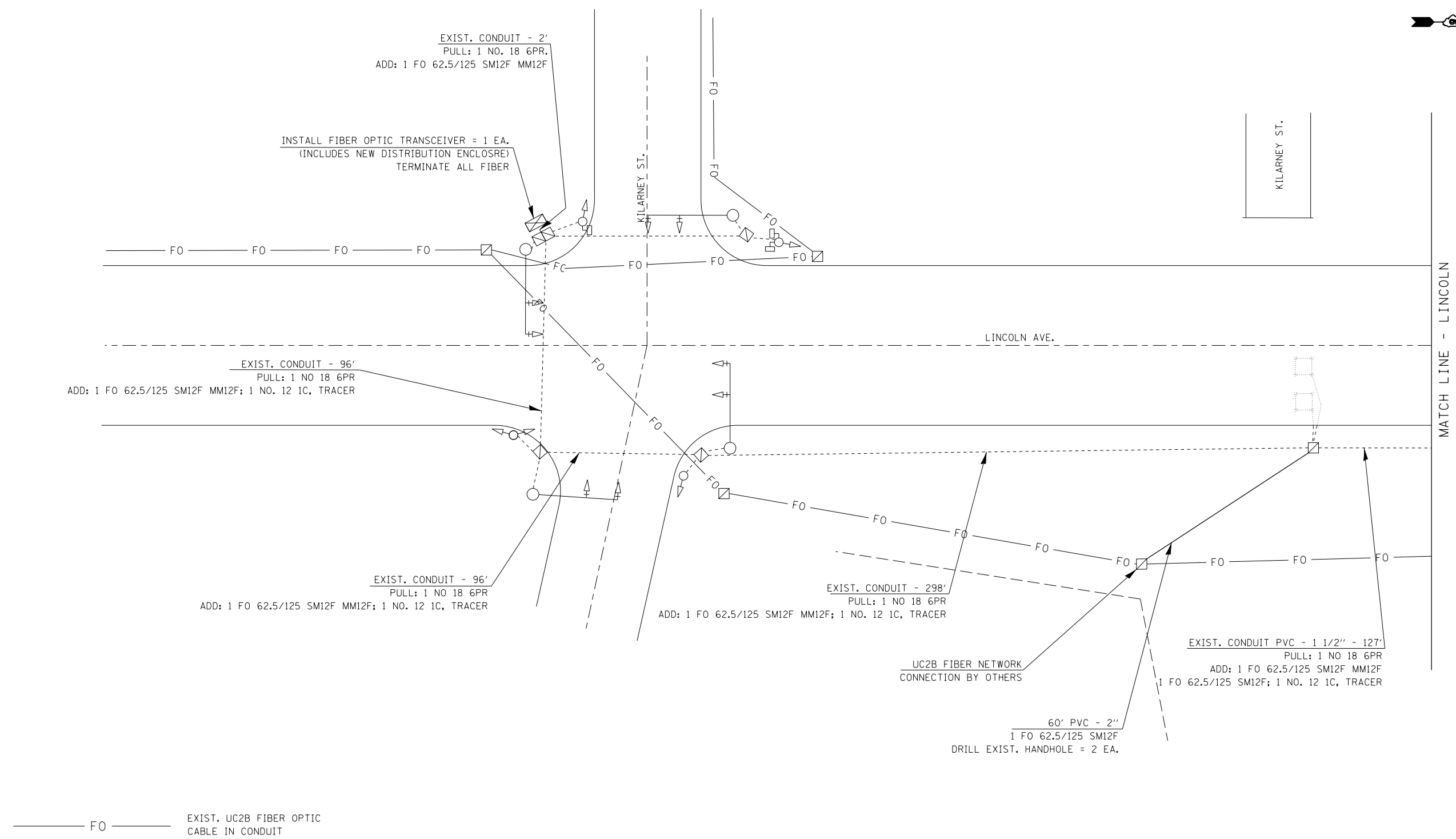
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	37
			CONTRACT NO. 70A26	
ILLINOIS FED. AID PROJECT				

# PTZ CAMERA INSTALLATION & FIBER OPTIC CONNECTION

LINCOLN AVE.  
&  
I-74

(NOT TO SCALE)

CAMERA & CONDUIT /CABLE LAYOUT



FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	38
CONTRACT NO. 70A26			ILLINOIS FED. AID PROJECT	

**B I L L O F M A T E R I A L S**

I-74 & LINCOLN AVE.

**PTZ CAMERA INSTALLATION &  
FIBER OPTIC CONNECTION**

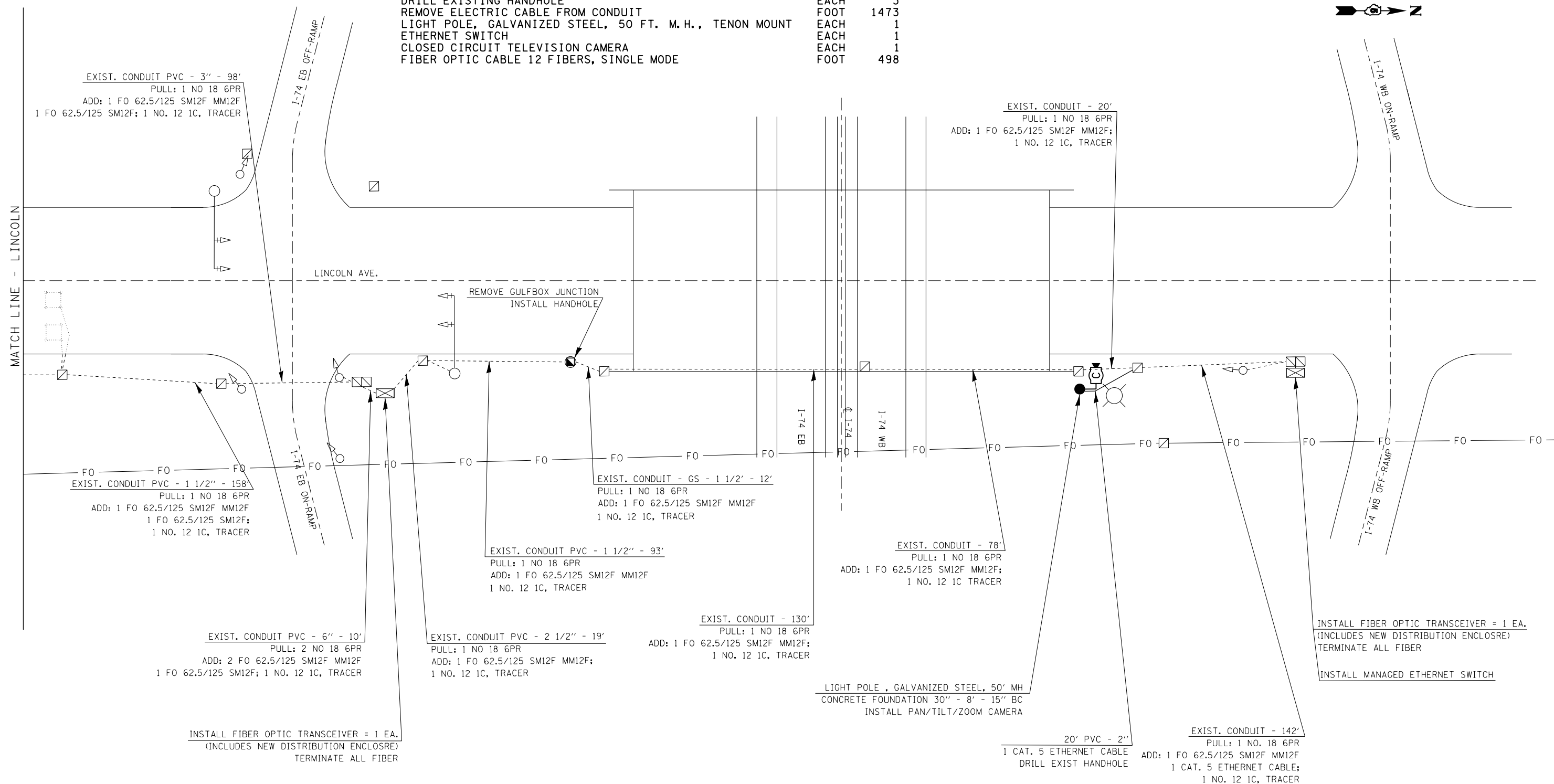
LINCOLN AVE.  
&  
I-74

(NOT TO SCALE)

**CAMERA & CONDUIT /CABLE LAYOUT**



ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	80
HANDHOLE	EACH	1
GULFBOX JUNCTION REMOVAL	EACH	1
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	8
TRANSCEIVER - FIBER OPTIC	EACH	3
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	1495
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	1032
DRILL EXISTING HANDHOLE	EACH	3
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1473
LIGHT POLE, GALVANIZED STEEL, 50 FT. M. H., TENON MOUNT	EACH	1
ETHERNET SWITCH	EACH	1
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	498



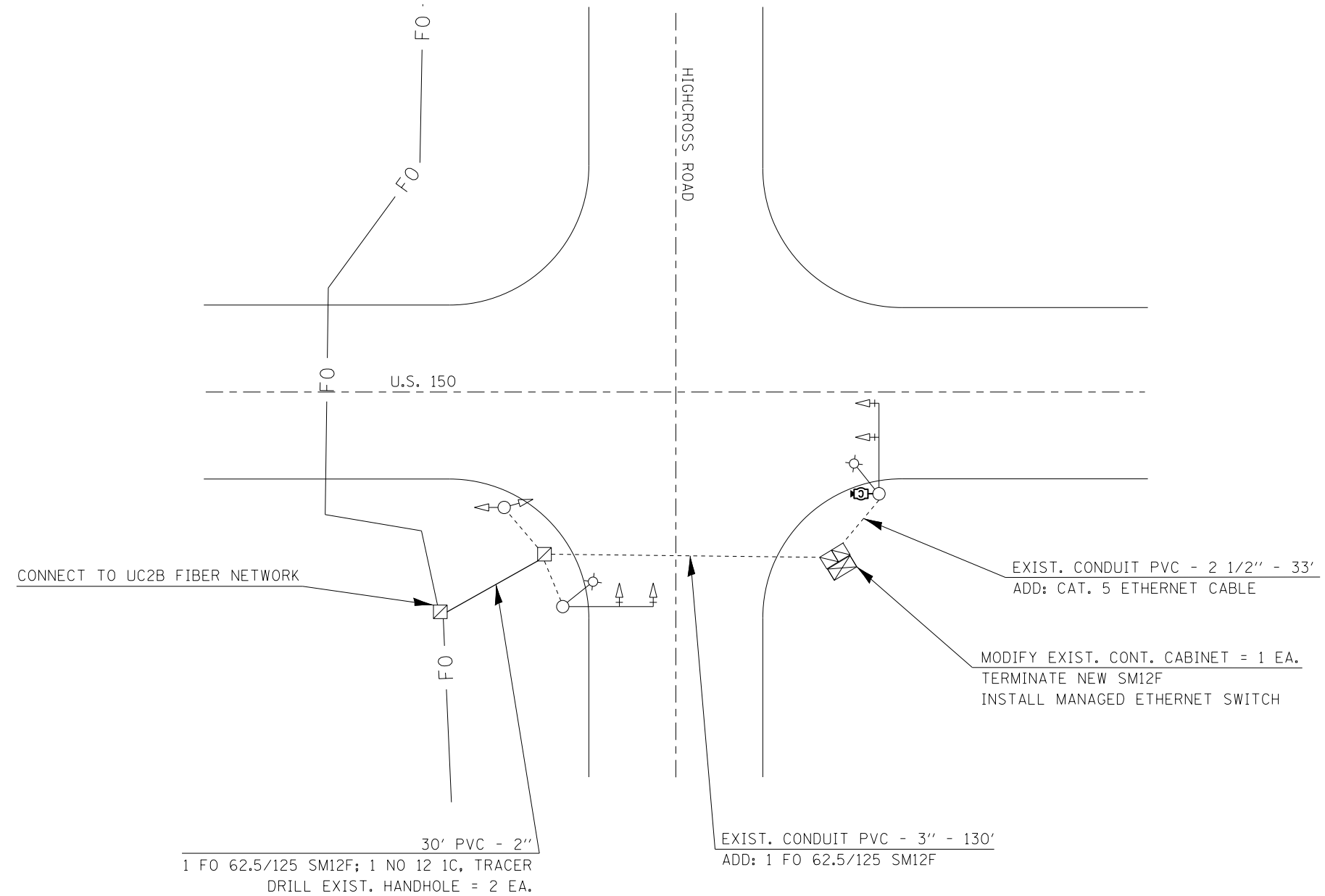
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	PLOT DATE = 6/26/2014	DATE -	REVISED -								

**PTZ CAMERA INSTALLATION**

**UNIVERSITY AVE. (U.S. 150)  
&  
HIGHCROSS RD. (IL. 130)**

(NOT TO SCALE)

**CAMERA & CONDUIT /CABLE LAYOUT**



**B I L L O F M A T E R I A L S**

U. S. 150 & HIGHCROSS RD. ( IL. 130)

**ITEM**

**UNIT QUANTITY**

- UNDERGROUND CONDUIT, PVC, 2" DIA.
- ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C
- DRILL EXISTING HANDHOLE
- CLOSED CIRCUIT TELEVISION CAMERA
- FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE
- ETHERNET SWITCH

FOOT	30
FOOT	160
EACH	2
EACH	1
FOOT	194
EACH	1

FO ——— EXIST. UC2B FIBER OPTIC CABLE IN CONDUIT

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\$MODELNAME\$	PLOT DATE = 6/26/2014	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	40
			CONTRACT NO. 70A26	
ILLINOIS FED. AID PROJECT				

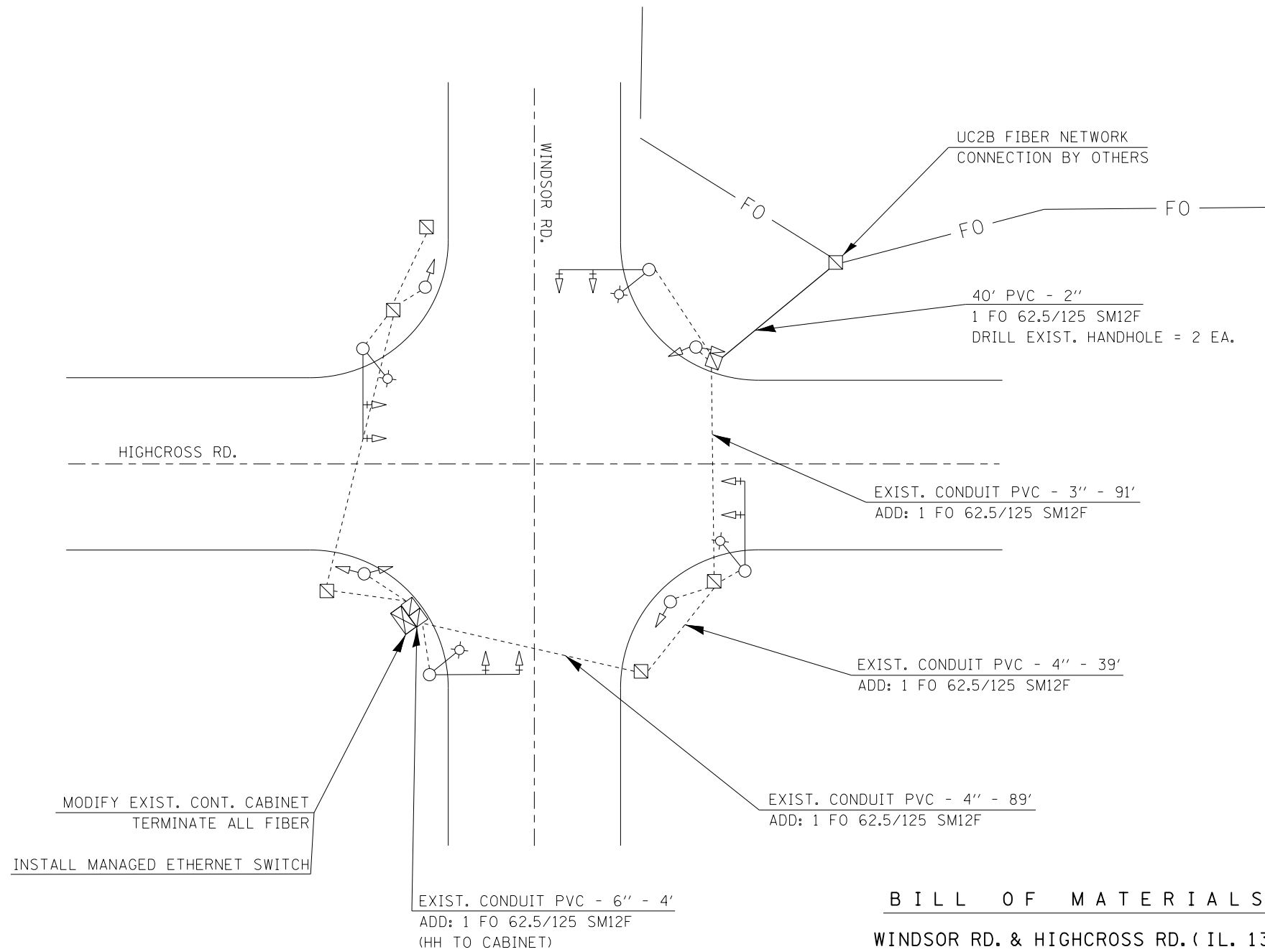


**FIBER OPTIC CONNECTION**

**WINDSOR RD.  
&  
HIGHCROSS RD. (IL. 130)**

(NOT TO SCALE)

**CONDUIT & CABLE LAYOUT**



**B I L L O F M A T E R I A L S**  
WINDSOR RD. & HIGHCROSS RD. (IL. 130)

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	40
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	306
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	259
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
DRILL EXISTING HANDHOLE	EACH	1

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\$MODELNAME\$	PLOT DATE = 6/26/2014	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. TO STA.

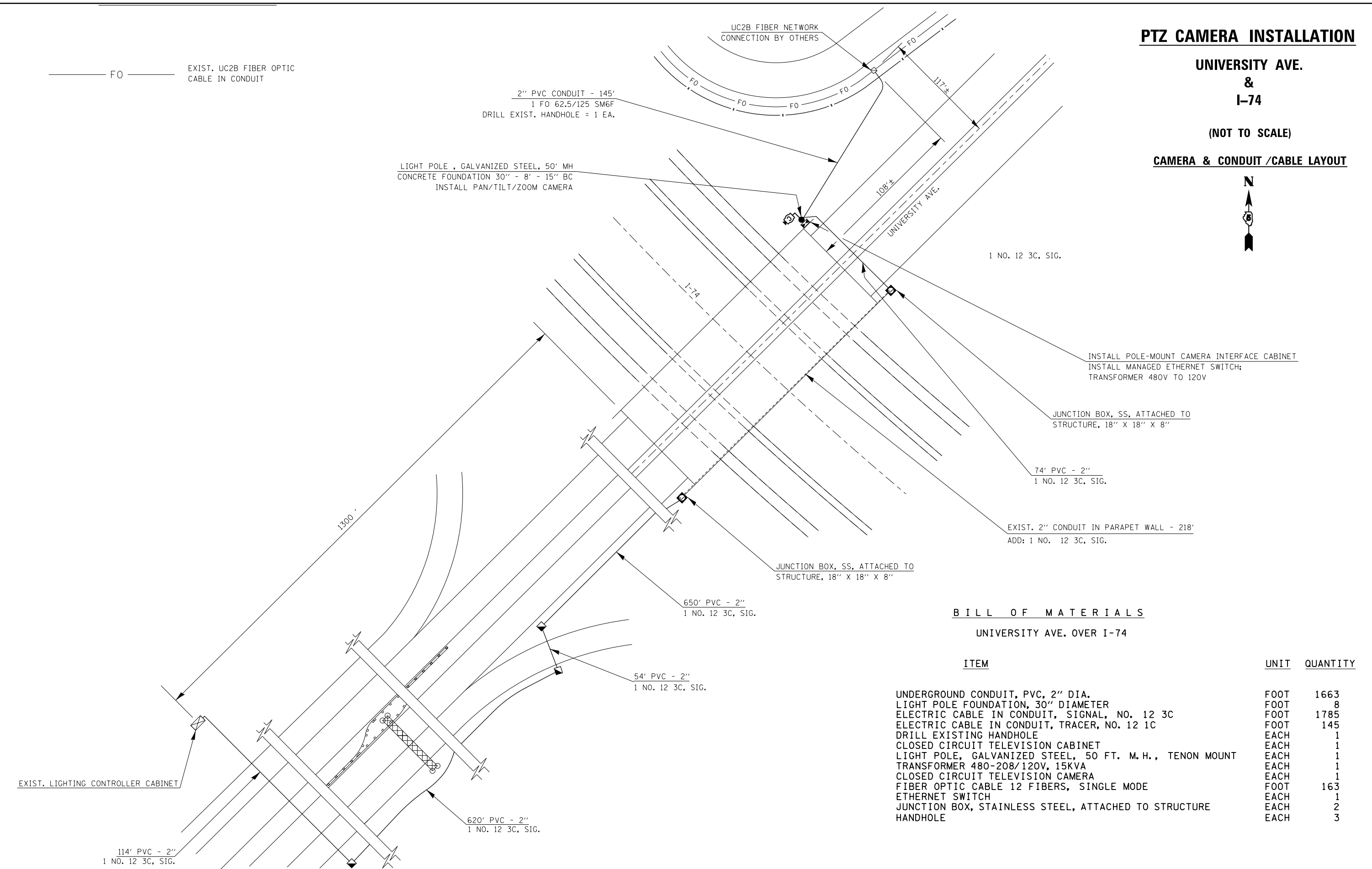
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VAR.	FY2014 ITS-1	CHMAPAIGN	71	41
			CONTRACT NO. 70A26	
ILLINOIS FED. AID PROJECT				

# PTZ CAMERA INSTALLATION

UNIVERSITY AVE.  
&  
I-74

(NOT TO SCALE)

## CAMERA & CONDUIT /CABLE LAYOUT



### BILL OF MATERIALS

UNIVERSITY AVE. OVER I-74

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	1663
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	8
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 12 3C	FOOT	1785
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	145
DRILL EXISTING HANDHOLE	EACH	1
CLOSED CIRCUIT TELEVISION CABINET	EACH	1
LIGHT POLE, GALVANIZED STEEL, 50 FT. M. H., TENON MOUNT	EACH	1
TRANSFORMER 480-208/120V, 15KVA	EACH	1
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	163
ETHERNET SWITCH	EACH	1
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE	EACH	2
HANDHOLE	EACH	3

FILE NAME =	USER NAME = ceerlockjd	DESIGNED -	REVISED -
ei:\pw\work\p1dot\ceerlockjd\0340463\PTZ camera plans.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

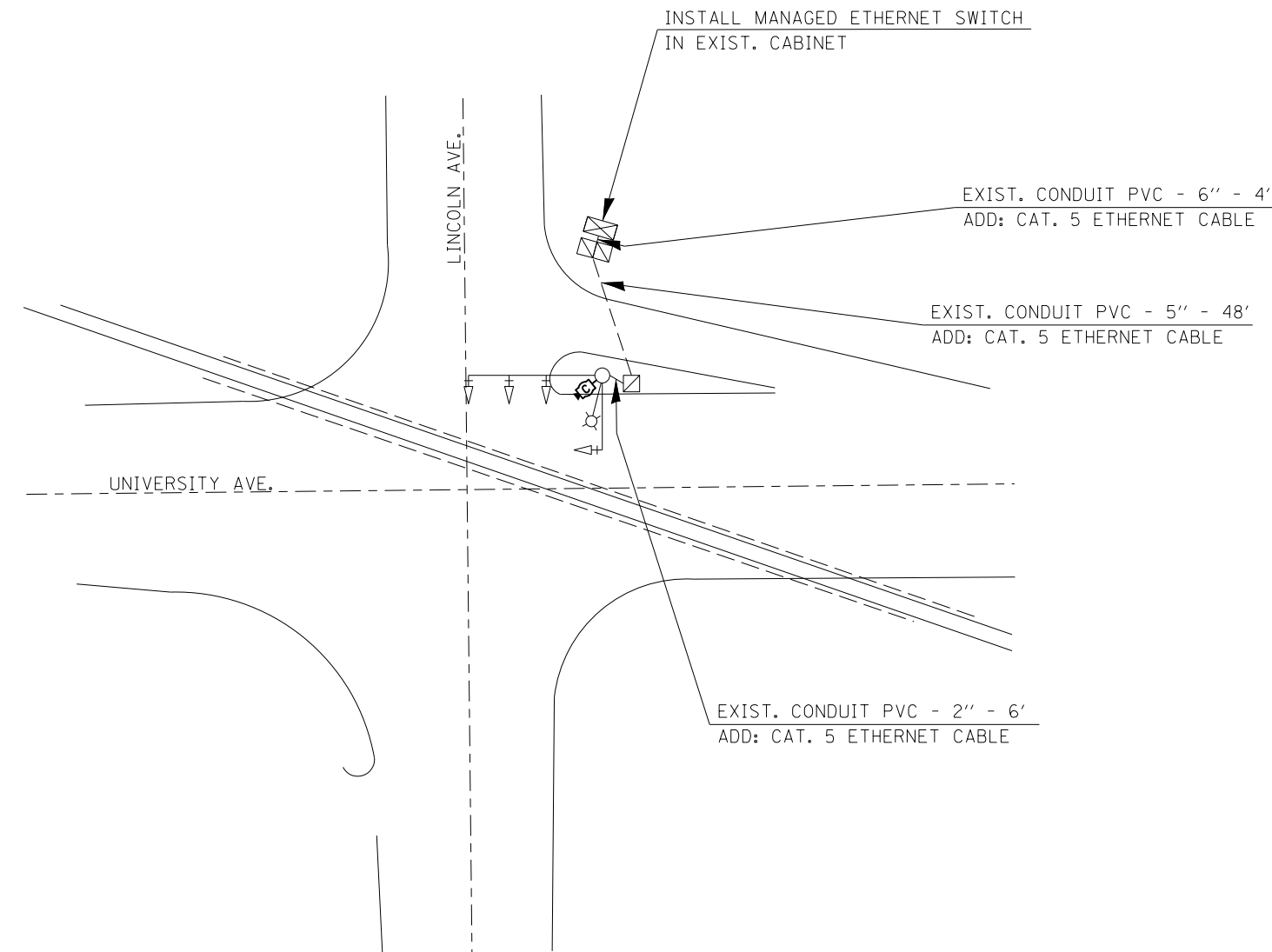
SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.																				
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																						
VAR.	FY2014 ITS-1	CHAMPAIGN	71	42																						
CONTRACT NO. 70A26																										
ILLINOIS FED. AID PROJECT																										

**PTZ CAMERA INSTALLATION**

**UNIVERSITY AVE.  
&  
LINCOLN AVE.**

(NOT TO SCALE)

**CAMERA & CONDUIT /CABLE LAYOUT**



**BILL OF MATERIALS**

UNIVERSITY AVE. & LINCOLN AVE.

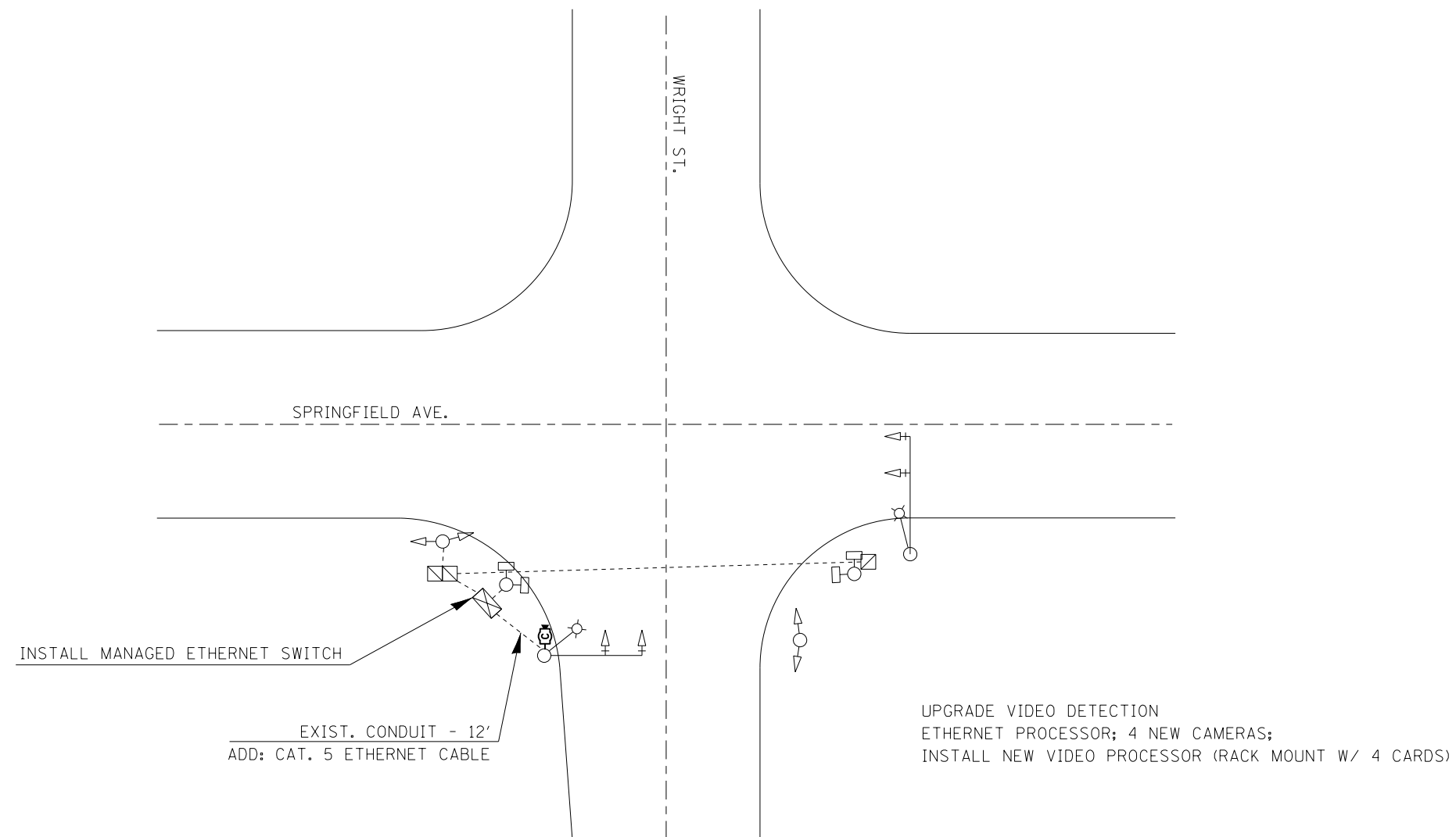
ITEM	UNIT	QUANTITY
ETHERNET SWITCH	EACH	1
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1

**PTZ CAMERA INSTALLATION**

**SPRINGFIELD AVE.  
&  
WRIGHT ST.**

(NOT TO SCALE)

**CAMERA & CONDUIT /CABLE LAYOUT**



**B I L L O F M A T E R I A L S**

**SPRINGFIELD AVE. & WRIGHT ST.**

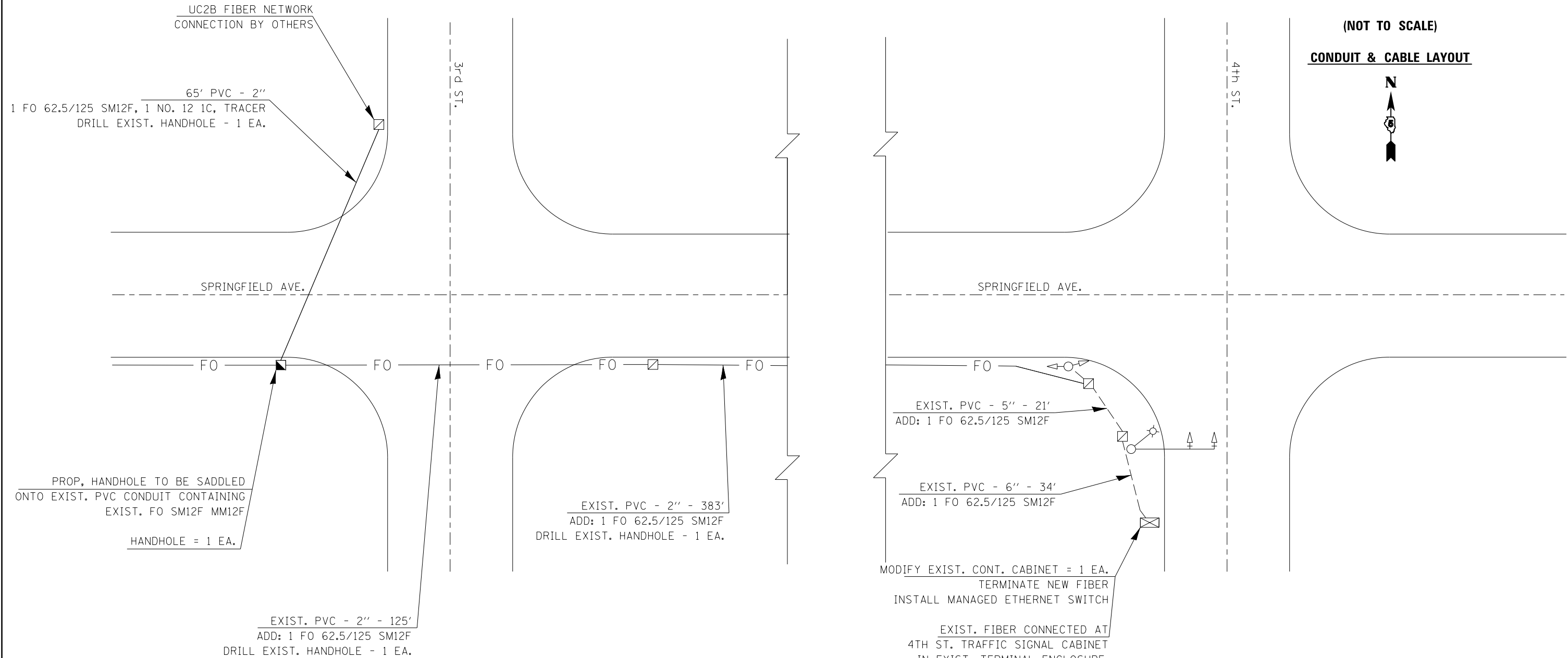
ITEM	UNIT	QUANTITY
VIDEO SYSTEM DETECTION PROCESSOR	EACH	1
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1
VIDEO VEHICLE DETECTION, 4 CAMERAS	EACH	1
ETHERNET SWITCH	EACH	1

**FIBER OPTIC BACKBONE CONNECTION**

**SPRINGFIELD AVE.  
&  
3RD /4TH ST.**

(NOT TO SCALE)

**CONDUIT & CABLE LAYOUT**



**B I L L O F M A T E R I A L S**  
SPRINGFIELD AVE. - 3RD. ST. TO 4TH ST.

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	65
HANDHOLE	EACH	1
DRILL EXISTING HANDHOLE	EACH	1
ETHERNET SWITCH	EACH	1
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	667
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	65
MODIFY EXISTING CONTROLLER CABINET	EACH	1

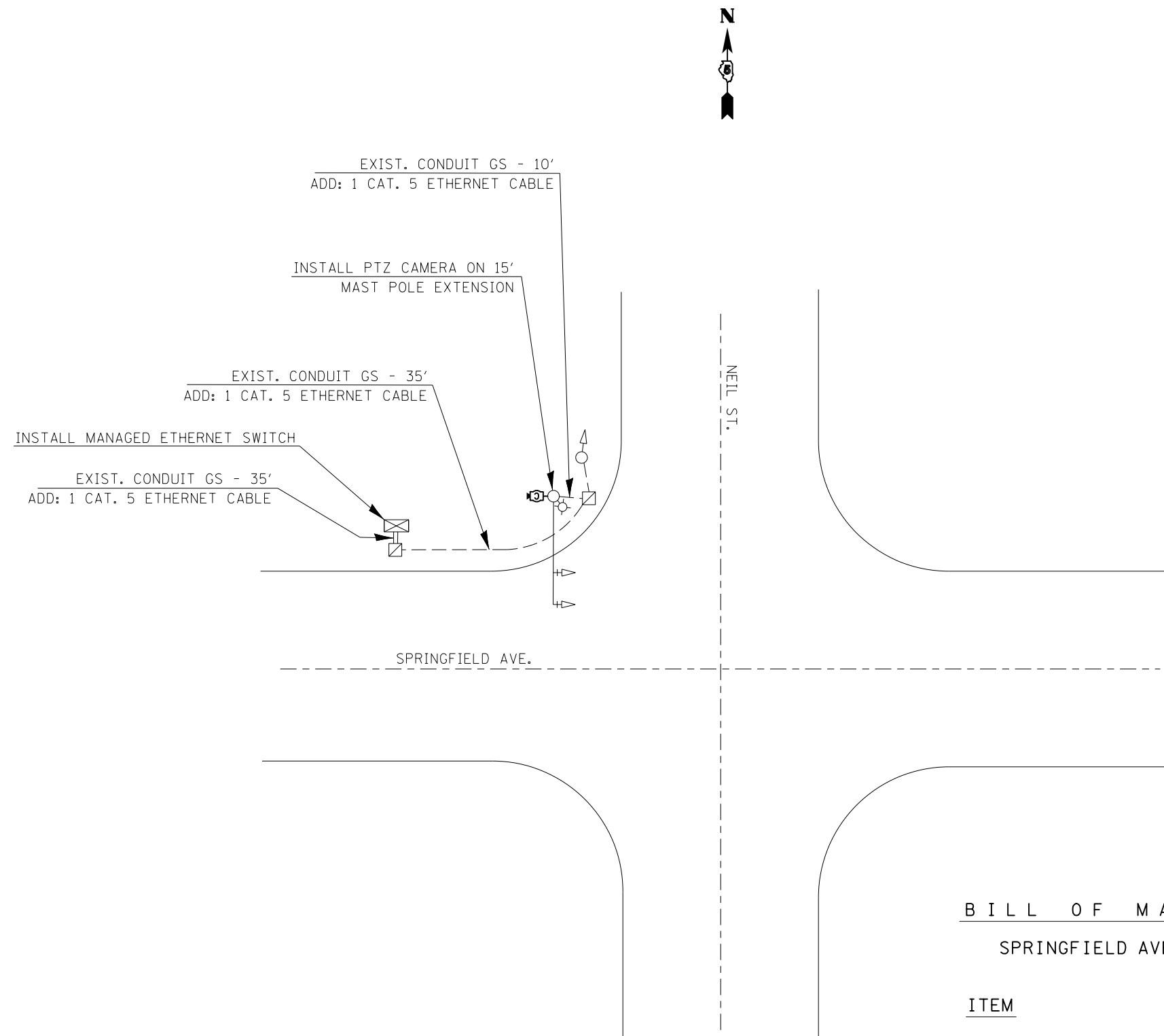
FO ———— EXIST. UC2B FIBER OPTIC CABLE IN CONDUIT

**PTZ CAMERA INSTALLATION**

**SPRINGFIELD AVE.  
&  
NEIL ST.**

(NOT TO SCALE)

**CAMERA & CONDUIT /CABLE LAYOUT**



B I L L O F M A T E R I A L S  
SPRINGFIELD AVE. & NEIL ST.

<u>ITEM</u>	<u>UNIT</u>	<u>QUANTITY</u>
ETHERNET SWITCH	EACH	1
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1

FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED -
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\$MODELNAME\$	PLOT DATE = 6/26/2014	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. TO STA.

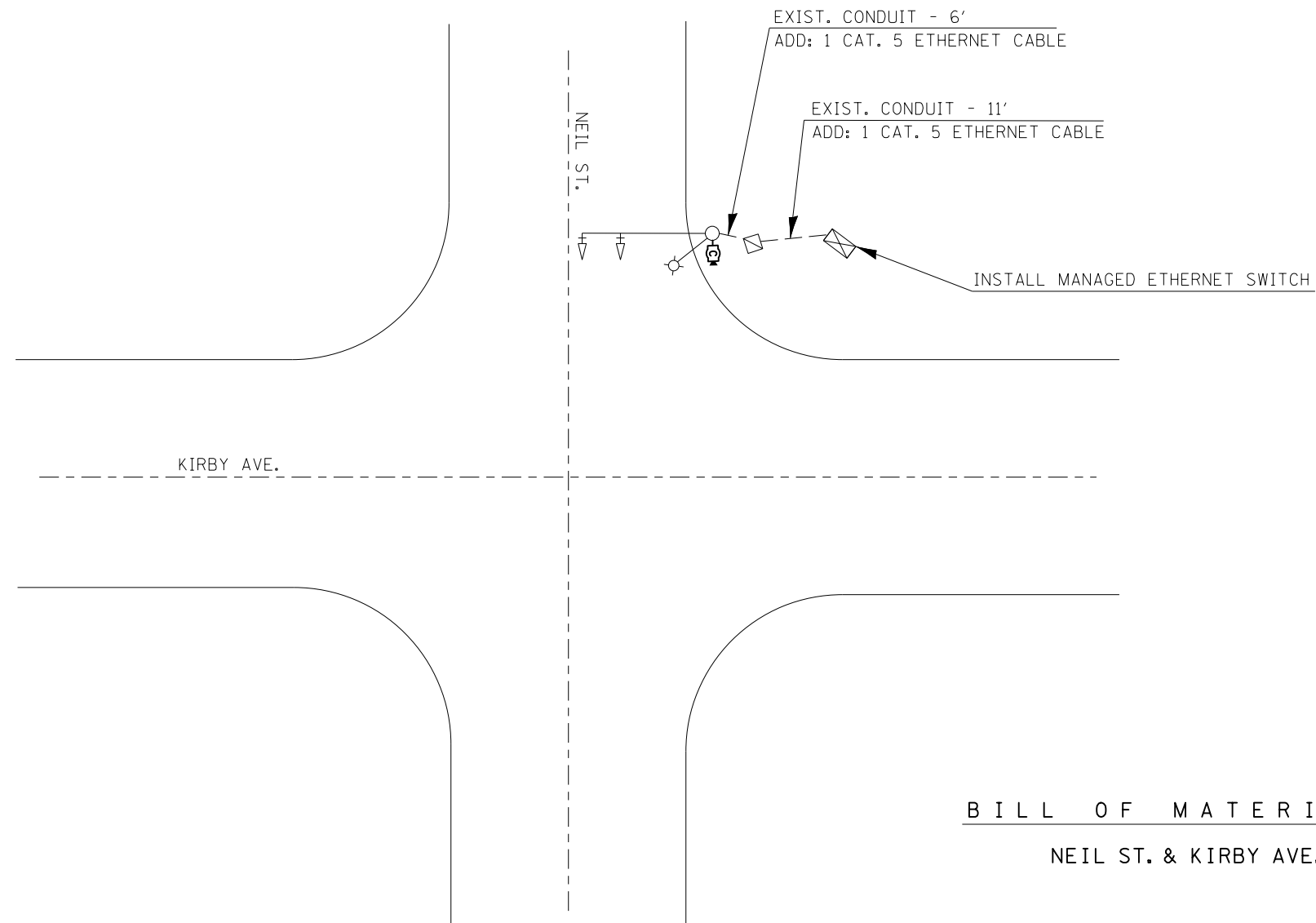
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	46
CONTRACT NO. 70A26			ILLINOIS FED. AID PROJECT	

**PTZ CAMERA INSTALLATION**

**NEIL ST.  
&  
KIRBY AVE**

(NOT TO SCALE)

**CAMERA & CONDUIT /CABLE LAYOUT**



**B I L L O F M A T E R I A L S**

NEIL ST. & KIRBY AVE.

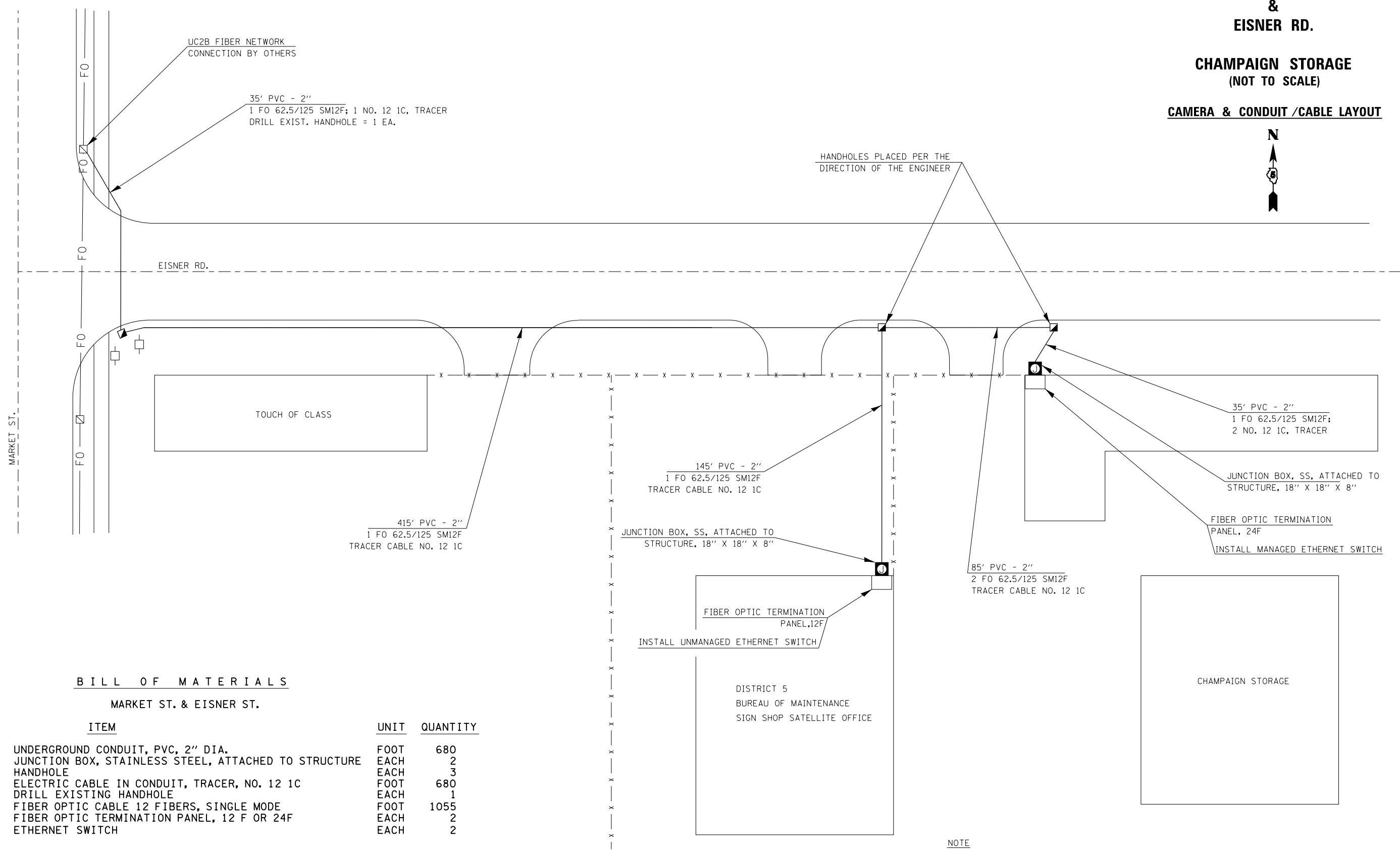
ITEM	UNIT	QUANTITY
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1
ETHERNET SWITCH	EACH	1

# FIBER OPTIC CONNECTION

MARKET ST.  
&  
EISNER RD.

CHAMPAIGN STORAGE  
(NOT TO SCALE)

## CAMERA & CONDUIT /CABLE LAYOUT



### BILL OF MATERIALS

MARKET ST. & EISNER ST.

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	680
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE	EACH	2
HANDHOLE	EACH	3
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	680
DRILL EXISTING HANDHOLE	EACH	1
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	1055
FIBER OPTIC TERMINATION PANEL, 12 F OR 24F	EACH	2
ETHERNET SWITCH	EACH	2

FO ——— EXIST. UC2B FIBER OPTIC  
CABLE IN CONDUIT

#### NOTE

PROPOSED HANDHOLES SHALL BE PLACED  
PER THE DIRCTION OF THE ENGINEER

FILE NAME =	USER NAME = ceerlockjd	DESIGNED -	REVISED -
ei:\pw\work\p\idot\ceerlockjd\0340463\P	Z camera plans.dgn	DRAWN -	REVISED -
\$MODELNAME\$	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/26/2014	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	48
CONTRACT NO. 70A26			ILLINOIS FED. AID PROJECT	



BILL OF MATERIALS

MARKET ST. & I-57

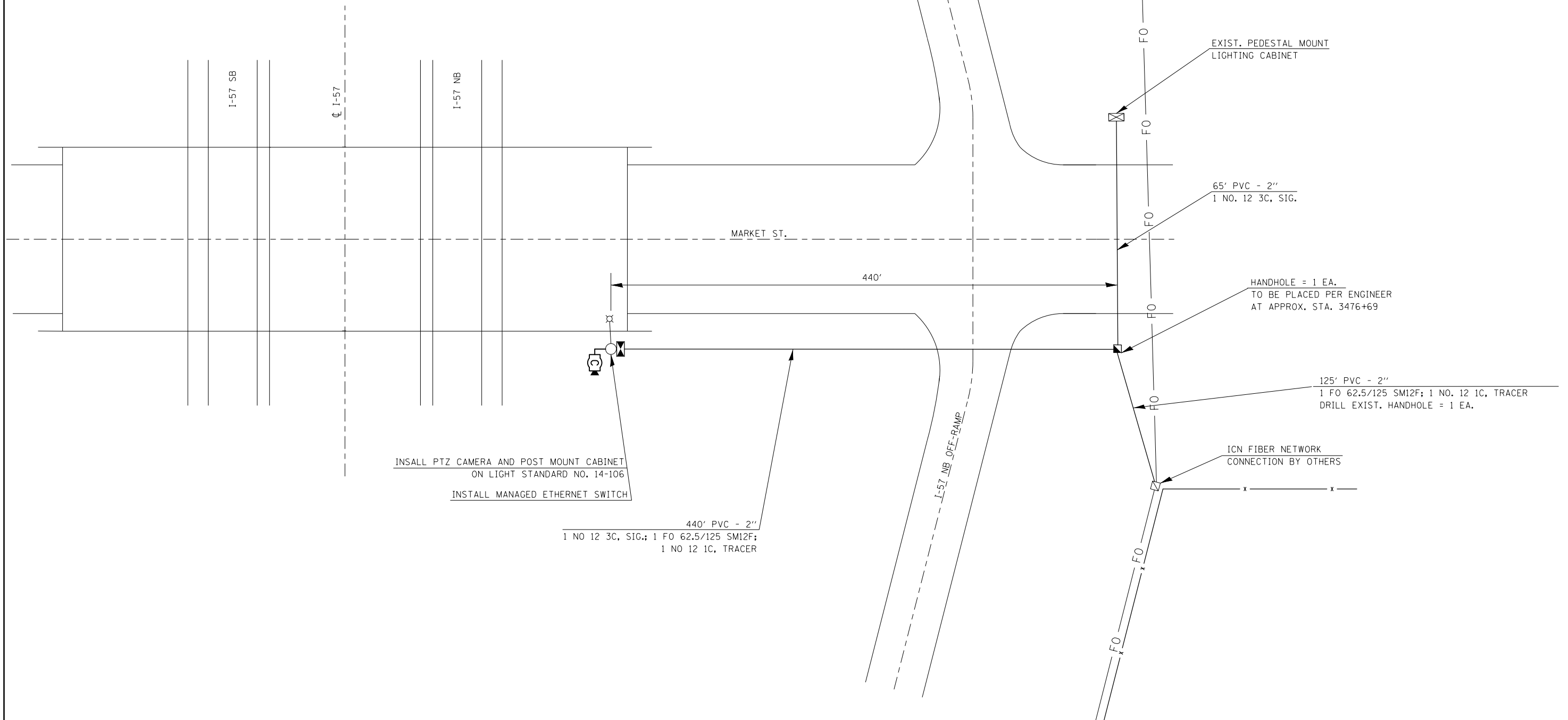
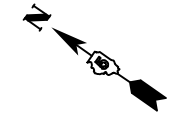
ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	630
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	630
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 12 3C	FOOT	527
DRILL EXISTING HANDHOLE	EACH	1
CLOSED CIRCUIT TELEVISION CABINET	EACH	1
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	587
ETHERNET SWITCH	EACH	1

PTZ CAMERA INSTALLATION & FIBER OPTIC CONNECTION

MARKET ST. & I-57

(NOT TO SCALE)

CAMERA & CONDUIT /CABLE LAYOUT



FILE NAME =	USER NAME = ceerlockjd	DESIGNED -	REVISED -
c:\pwork\work\pwork\ceerlockjd\0340463\PTZ camera plans.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	49
CONTRACT NO. 70A26			ILLINOIS FED. AID PROJECT	

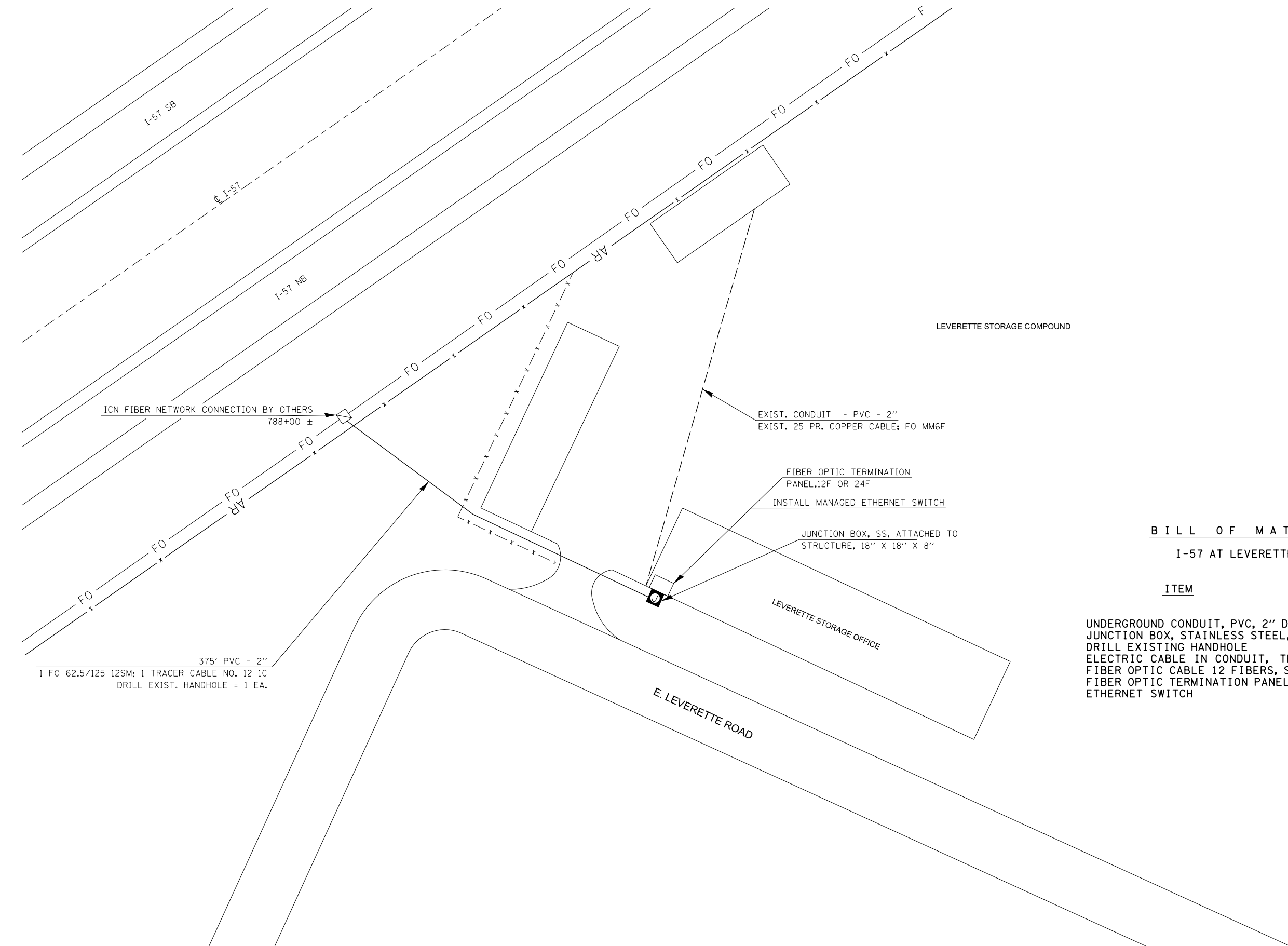
**FIBER OPTIC CONNECTION**

**I-57  
0.5 NORTH  
OF  
MARKET ST.**

**LEVERETTE STORAGE**

(NOT TO SCALE)

**CONDUIT /CABLE LAYOUT**



ICN FIBER NETWORK CONNECTION BY OTHERS  
788+00 ±

EXIST. CONDUIT - PVC - 2"  
EXIST. 25 PR. COPPER CABLE; FO MM6F

FIBER OPTIC TERMINATION  
PANEL, 12F OR 24F  
INSTALL MANAGED ETHERNET SWITCH

JUNCTION BOX, SS, ATTACHED TO  
STRUCTURE, 18" X 18" X 8"

375' PVC - 2"  
1 FO 62.5/125 12SM; 1 TRACER CABLE NO. 12 1C  
DRILL EXIST. HANDHOLE = 1 EA.

**B I L L O F M A T E R I A L S**

**I-57 AT LEVERETTE STORAGE**

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	375
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE	EACH	1
DRILL EXISTING HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	375
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	772
FIBER OPTIC TERMINATION PANEL, 12 F OR 24F	EACH	1
ETHERNET SWITCH	EACH	1

FILE NAME =	USER NAME = ceerlockjd	DESIGNED -	REVISED -
c:\pwork\work\pwork\ceerlockjd\0340463\P	Z camera plans.dgn	DRAWN -	REVISED -
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	PLOT DATE = 6/26/2014	DATE -	REVISED -

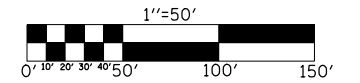
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. TO STA.

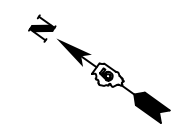
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VAR.	FY2014 ITS-1	CHAMPAIGN	71	50
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70A26	

# PTZ CAMERA INSTALLATION

I-57  
&  
I-74



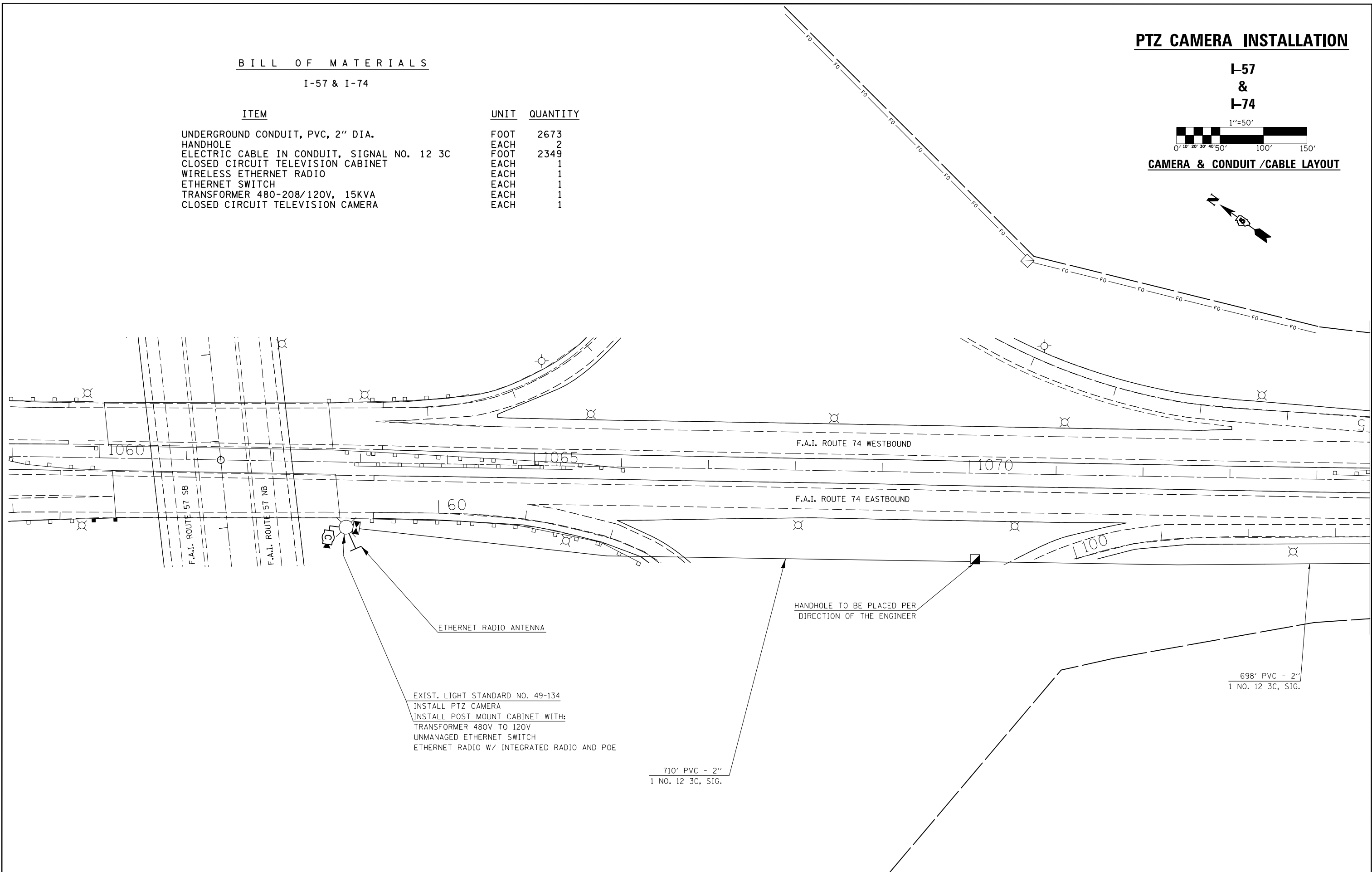
## CAMERA & CONDUIT /CABLE LAYOUT



### BILL OF MATERIALS

I-57 & I-74

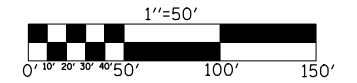
ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	2673
HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 12 3C	FOOT	2349
CLOSED CIRCUIT TELEVISION CABINET	EACH	1
WIRELESS ETHERNET RADIO	EACH	1
ETHERNET SWITCH	EACH	1
TRANSFORMER 480-208/120V, 15KVA	EACH	1
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1



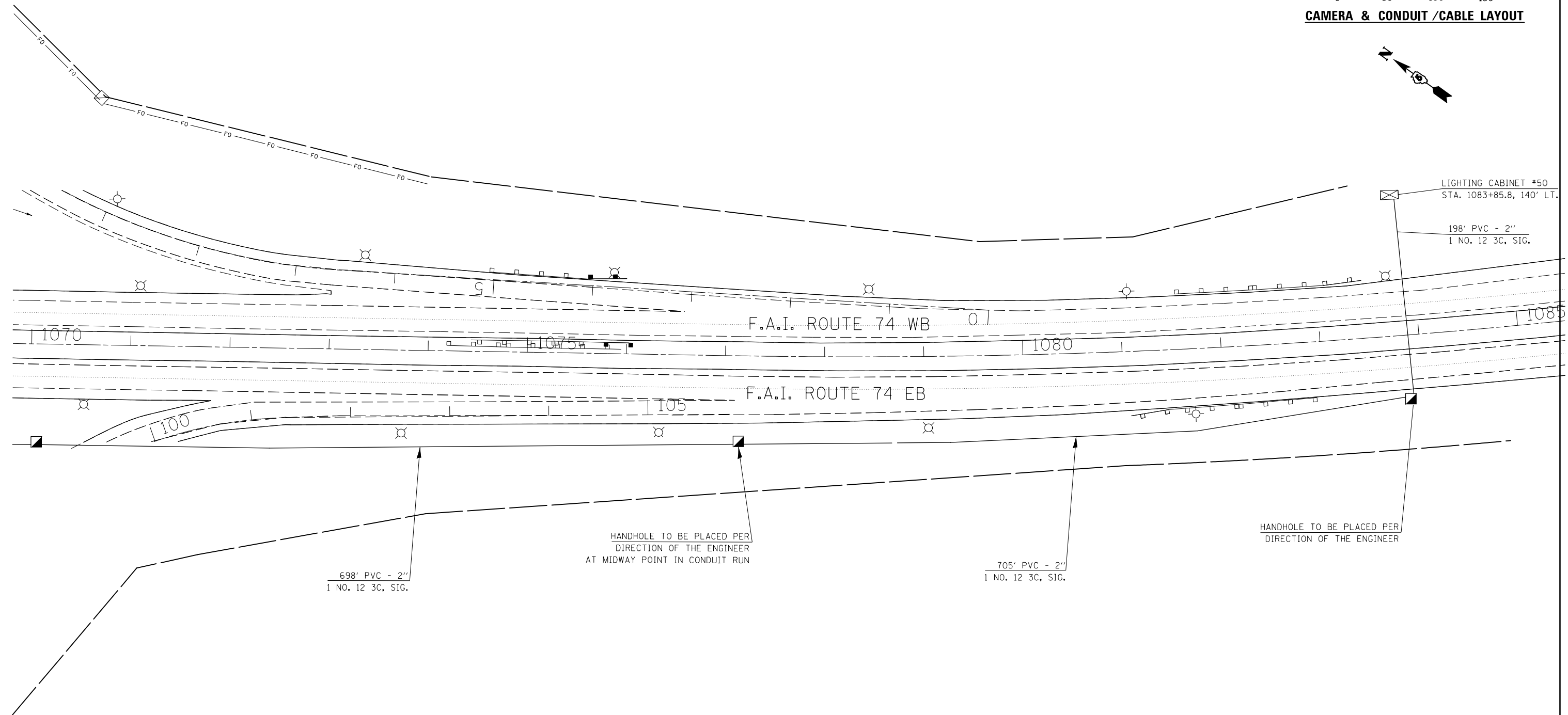
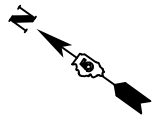
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ce:\pwork\pwork\ceo-lockjd\0340463\PTZ camera plans.dgn	PLOT SCALE = 100.0054' / in.	DRAWN -	REVISED -			VAR.	FY2014 ITS-1	CHAMPAIGN	71	51	
\$MODELNAME\$	PLOT DATE = 6/26/2014	CHECKED -	REVISED -			CONTRACT NO. 70A26					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

# PTZ CAMERA INSTALLATION

I-57  
&  
I-74



## CAMERA & CONDUIT /CABLE LAYOUT



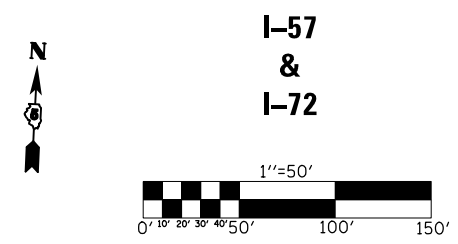
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	PLOT DATE = 6/26/2014	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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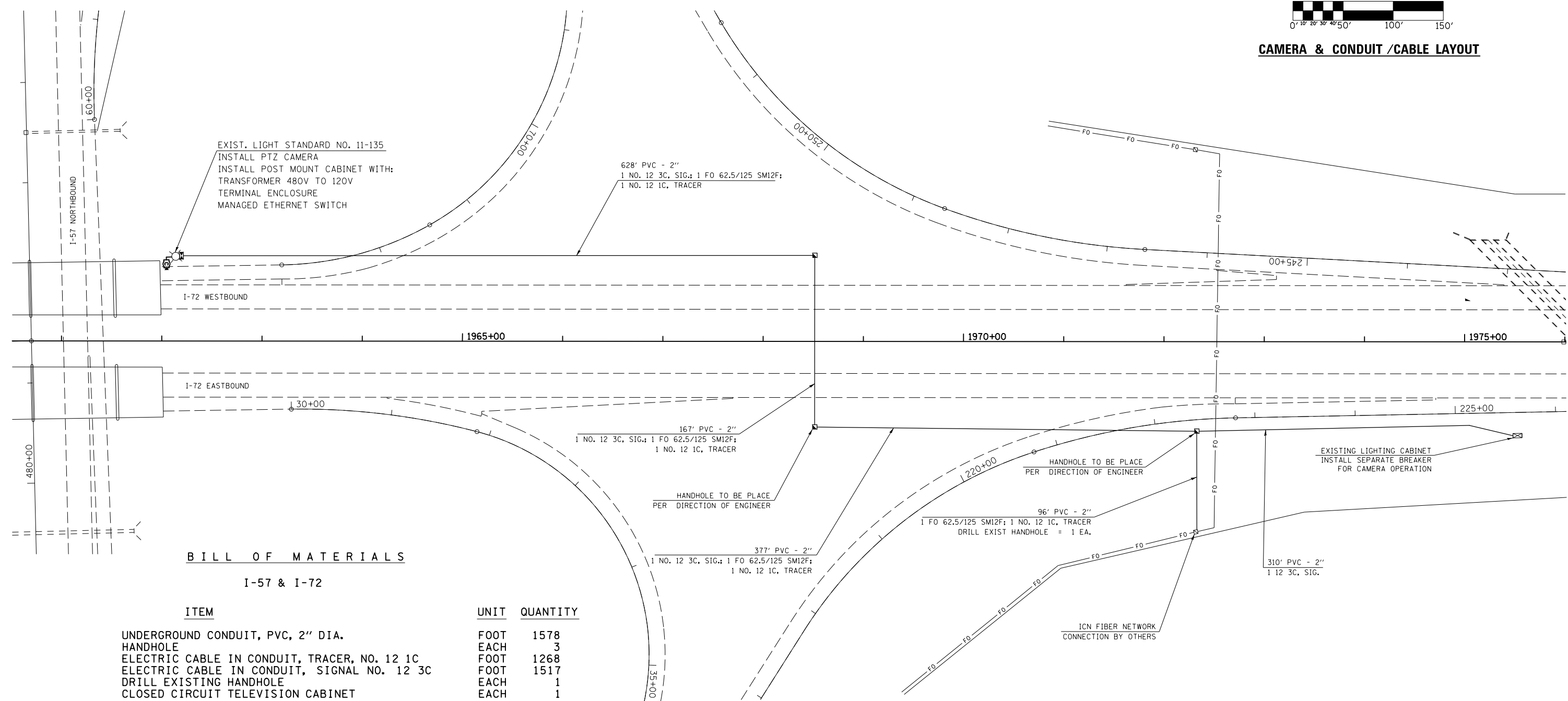
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	52
CONTRACT NO. 70A26			ILLINOIS FED. AID PROJECT	

# PTZ CAMERA INSTALLATION & FIBER OPTIC CONNECTION



**I-57  
&  
I-72**

**CAMERA & CONDUIT /CABLE LAYOUT**



### BILL OF MATERIALS

I-57 & I-72

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	1578
HANDHOLE	EACH	3
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	1268
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 12 3C	FOOT	1517
DRILL EXISTING HANDHOLE	EACH	1
CLOSED CIRCUIT TELEVISION CABINET	EACH	1
ETHERNET SWITCH	EACH	1
TRANSFORMER 480-208/120V, 15KVA	EACH	1
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	1303

FILE NAME =	USER NAME = ceerlockjd	DESIGNED -	REVISED -
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\$MODELNAME\$	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/26/2014	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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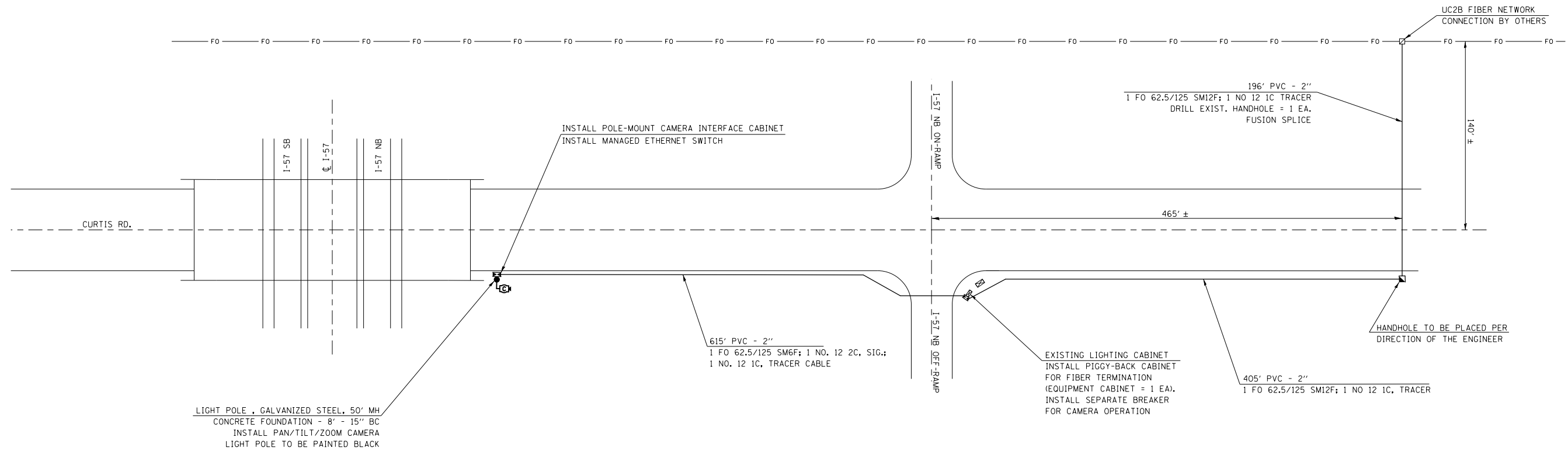
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	53
CONTRACT NO. 70A26			ILLINOIS FED. AID PROJECT	

# PTZ CAMERA INSTALLATION & FIBER OPTIC CONNECTION

**I-57  
&  
CURTIS RD.**

(NOT TO SCALE)

## CAMERA & CONDUIT /CABLE LAYOUT



### BILL OF MATERIALS

I-57 & CURTIS RD.

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	1216
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	8
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	1216
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 12 3C	FOOT	636
DRILL EXISTING HANDHOLE	EACH	1
CLOSED CIRCUIT TELEVISION CABINET	EACH	1
LIGHT POLE, GALVANIZED STEEL, 50 FT. M. H., TENON MOUNT	EACH	1
EQUIPMENT CABINET	EACH	1
ETHERNET SWITCH	EACH	1
PAINTING LIGHT POLE UNIT	EACH	1
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	1256

FO ———— EXIST. UC2B FIBER OPTIC  
CABLE IN CONDUIT

FILE NAME =	USER NAME = ceerlockjd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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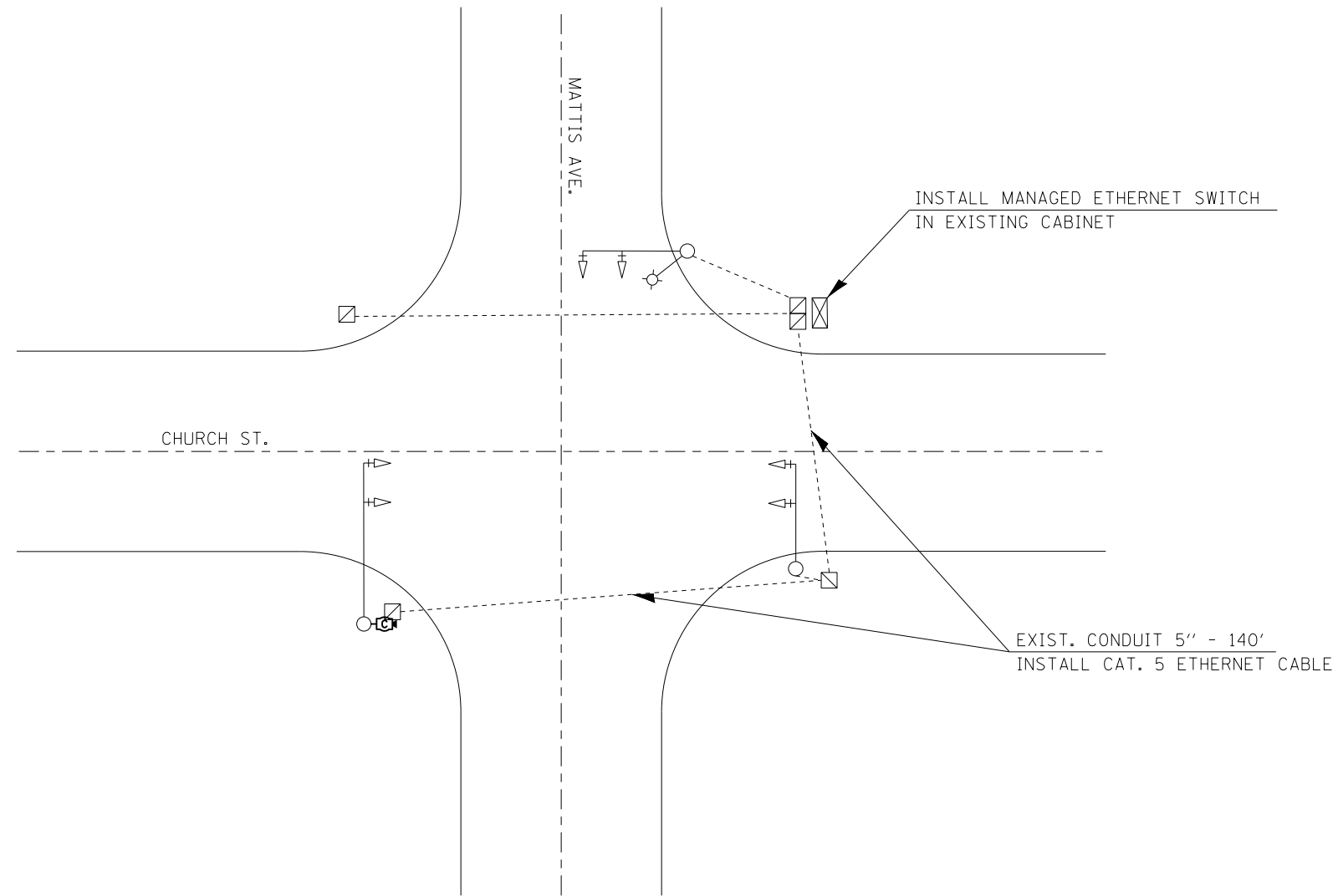
CONTRACT NO. 70A26

**PTZ CAMERA INSTALLATION**

**MATTIS AVE.  
&  
CHURCH ST.**

(NOT TO SCALE)

**CAMERA & CONDUIT /CABLE LAYOUT**



**B I L L O F M A T E R I A L S**

MATTIS AVE. & CHURCH RD.

ITEM	UNIT	QUANTITY
ETHERNET SWITCH	EACH	1
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1

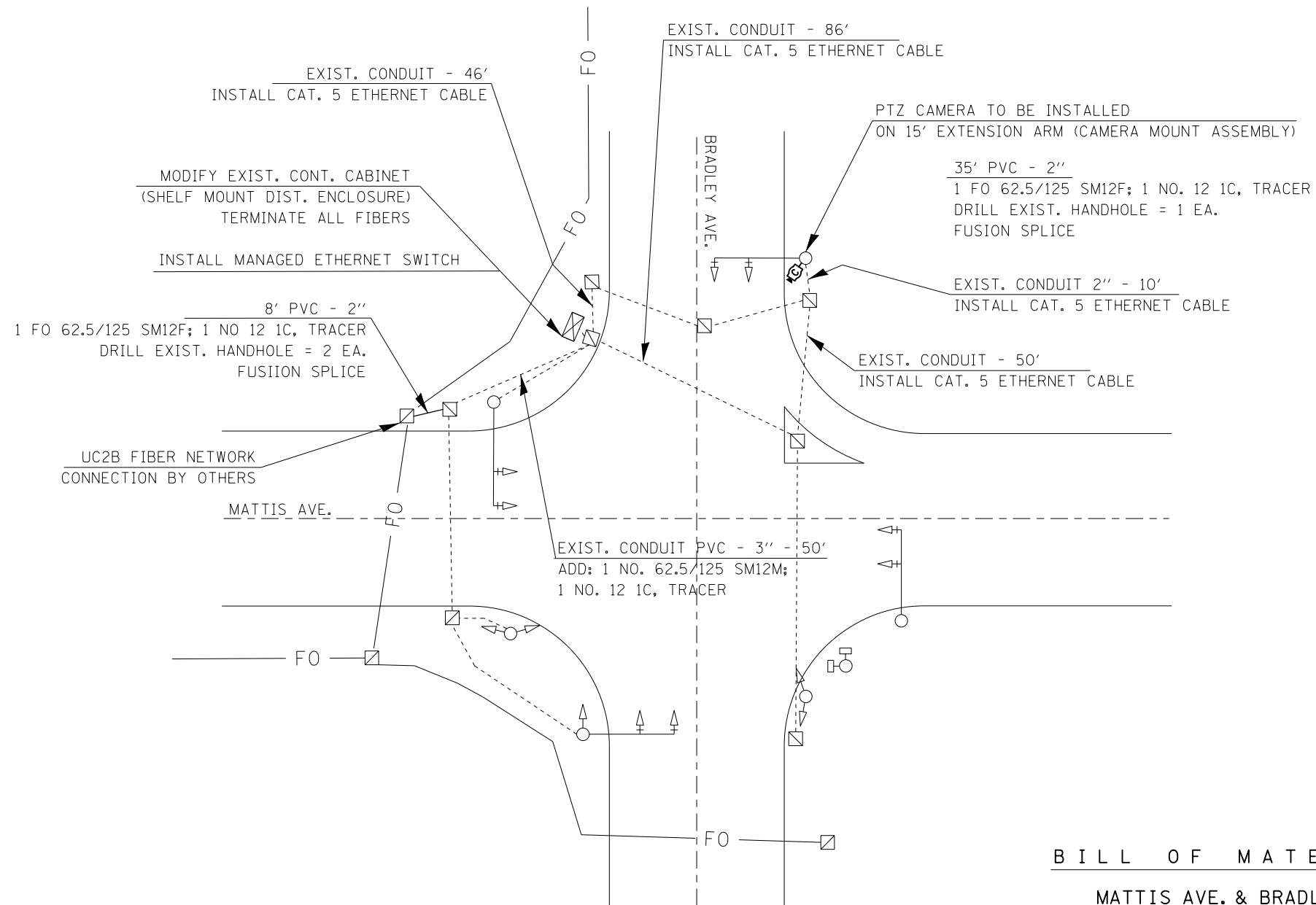
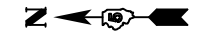
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ci:\pw\work\p\idot\ceerlockjd\0340463\PTZ camera plans.dgn	DRAWN -	REVISED -	VAR.								FY2014 ITS-1	CHAMPAIGN	71	55	
*MODELNAME*	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -								CONTRACT NO. 70A26				
	PLOT DATE = 6/26/2014	DATE -	REVISED -								ILLINOIS FED. AID PROJECT				

**PTZ CAMERA INSTALLATION & FIBER OPTIC CONNECTION**

**MATTIS AVE. & BRADLEY AVE.**

(NOT TO SCALE)

**CAMERA & CONDUIT /CABLE LAYOUT**



**BILL OF MATERIALS**  
MATTIS AVE. & BRADLEY AVE.

ITEM	UNIT	QUANTITY
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	88
CAMERA MOUNTING ASSEMBLY	EACH	1
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	8
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	58
DRILL EXISTING HANDHOLE	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1

FO EXIST. UC2B FIBER OPTIC CABLE IN CONDUIT



**PTZ CAMERA INSTALLATION &  
FIBER OPTIC CONNECTION**

**MATTIS AVE.  
&  
BLOOMINGTON RD.**

(NOT TO SCALE)

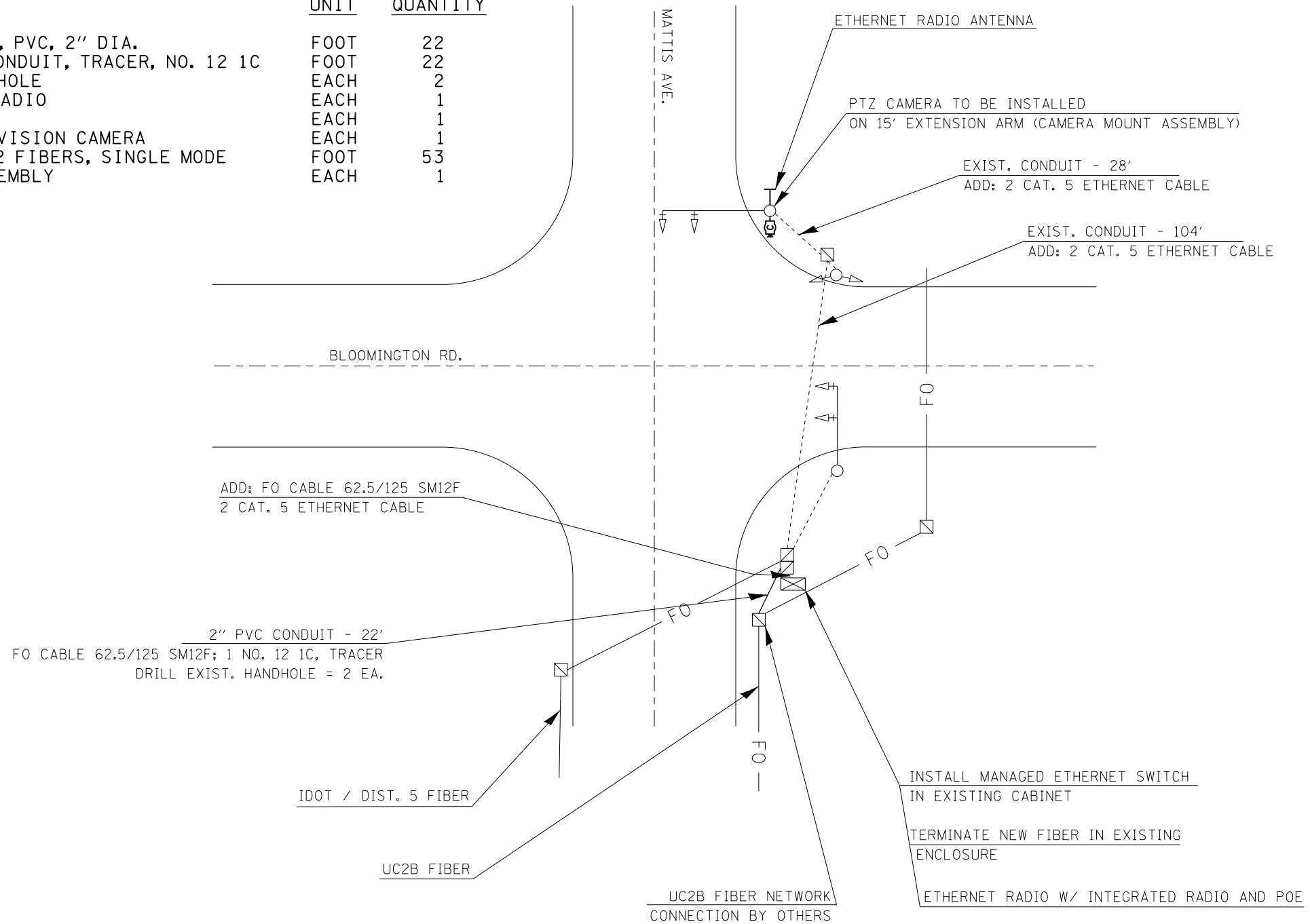
**CAMERA & CONDUIT /CABLE LAYOUT**



B I L L O F M A T E R I A L S

MATTIS AVE. & BLOOMINGTON RD.

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	22
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	22
DRILL EXISTING HANDHOLE	EACH	2
WIRELESS ETHERNET RADIO	EACH	1
ETHERNET SWITCH	EACH	1
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	53
CAMERA MOUNTING ASSEMBLY	EACH	1

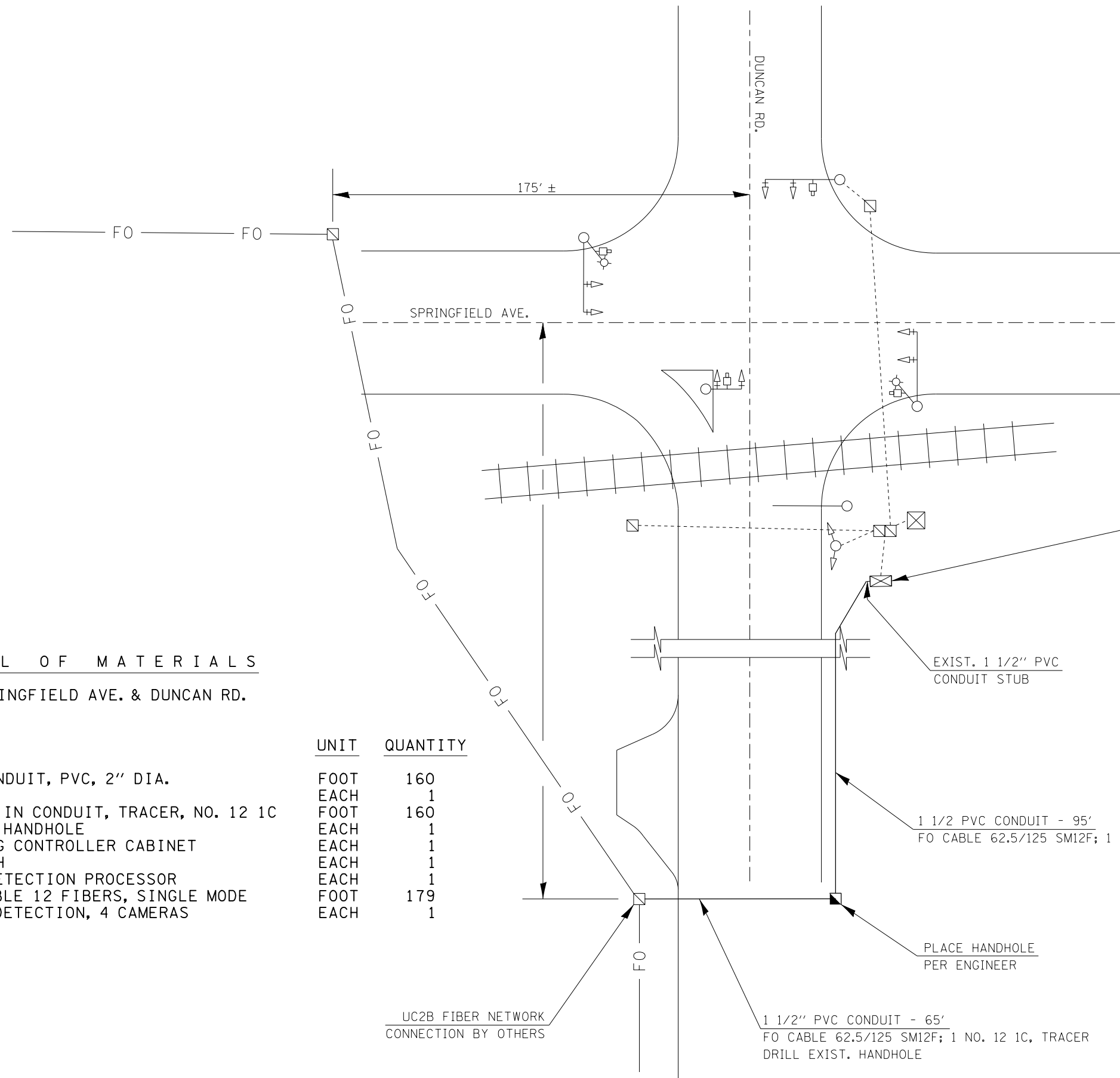


# FIBER OPTIC CONNECTION

SPRINGFIELD AVE.  
&  
DUNCAN RD.

(NOT TO SCALE)

## CAMERA & CONDUIT /CABLE LAYOUT



MODIFY EXIST. CONT. CABINET = 1 EA.  
TERMINATE NEW FIBER  
INSTALL MANAGED ETHERNET SWITCH

EXIST. 1 1/2" PVC  
CONDUIT STUB

1 1/2" PVC CONDUIT - 95'  
FO CABLE 62.5/125 SM12F; 1 NO. 12 1C, TRACER

PLACE HANDHOLE  
PER ENGINEER

1 1/2" PVC CONDUIT - 65'  
FO CABLE 62.5/125 SM12F; 1 NO. 12 1C, TRACER  
DRILL EXIST. HANDHOLE

UC2B FIBER NETWORK  
CONNECTION BY OTHERS

EXIST. UC2B FIBER OPTIC  
CABLE IN CONDUIT

### BILL OF MATERIALS

SPRINGFIELD AVE. & DUNCAN RD.

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	160
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	160
DRILL EXISTING HANDHOLE	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
VIDEO SYSTEM DETECTION PROCESSOR	EACH	1
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	179
VIDEO VEHICLE DETECTION, 4 CAMERAS	EACH	1

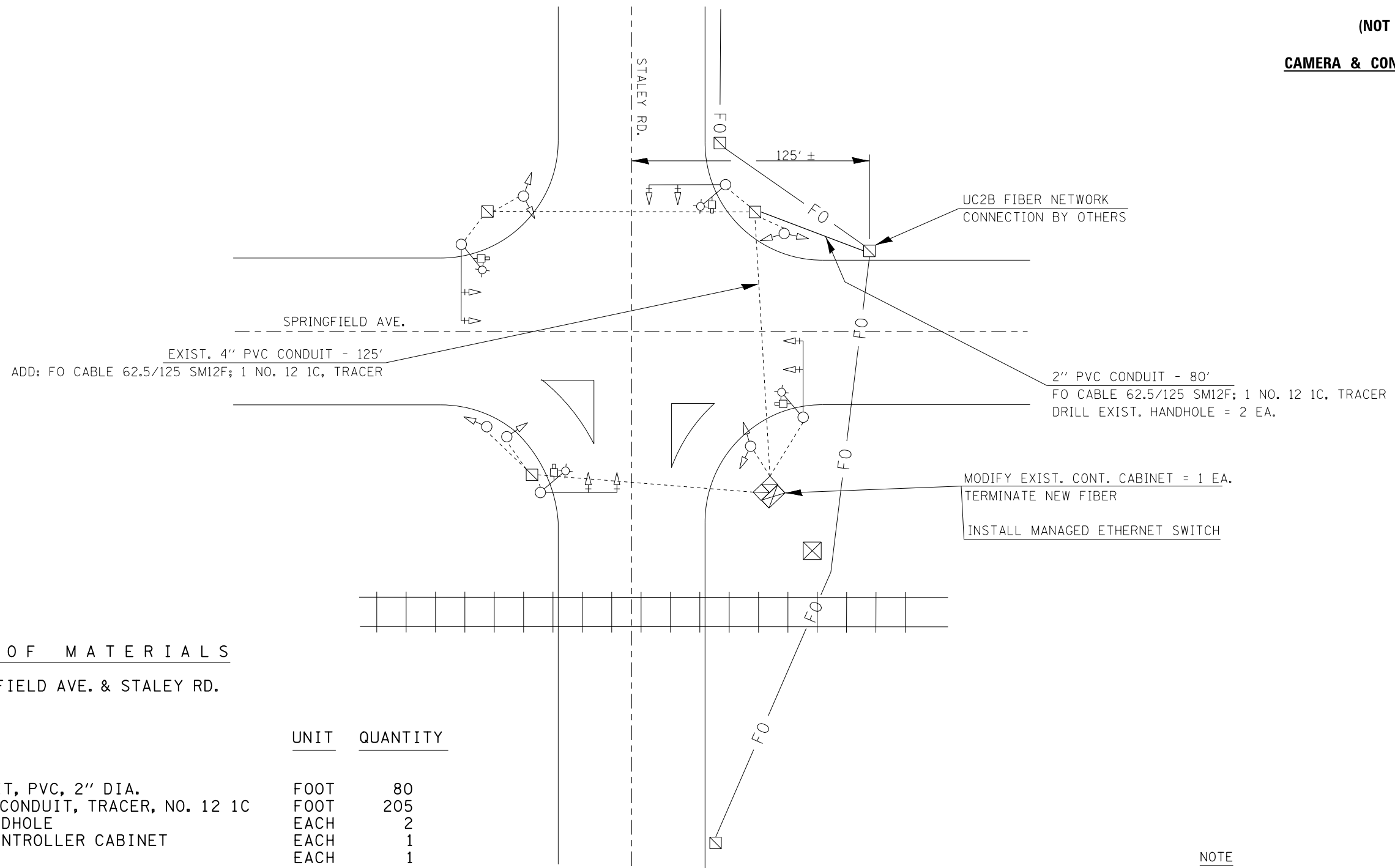
NOTE  
UPGRADE VIDEO DETECTION  
ETHERNET PROCESSOR, 4 NEW CAMERAS

**FIBER OPTIC CONNECTION**

**SPRINGFIELD AVE.  
&  
STALEY RD.**

(NOT TO SCALE)

**CAMERA & CONDUIT /CABLE LAYOUT**



**B I L L O F M A T E R I A L S**

**SPRINGFIELD AVE. & STALEY RD.**

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	80
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	205
DRILL EXISTING HANDHOLE	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
VIDEO SYSTEM DETECTION PROCESSOR	EACH	1
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	241
VIDEO VEHICLE DETECTION, 4 CAMERAS	EACH	1

**NOTE**  
UPGRADE VIDEO DETECTION  
ETHERNET PROCESSOR, 4 NEW CAMERAS

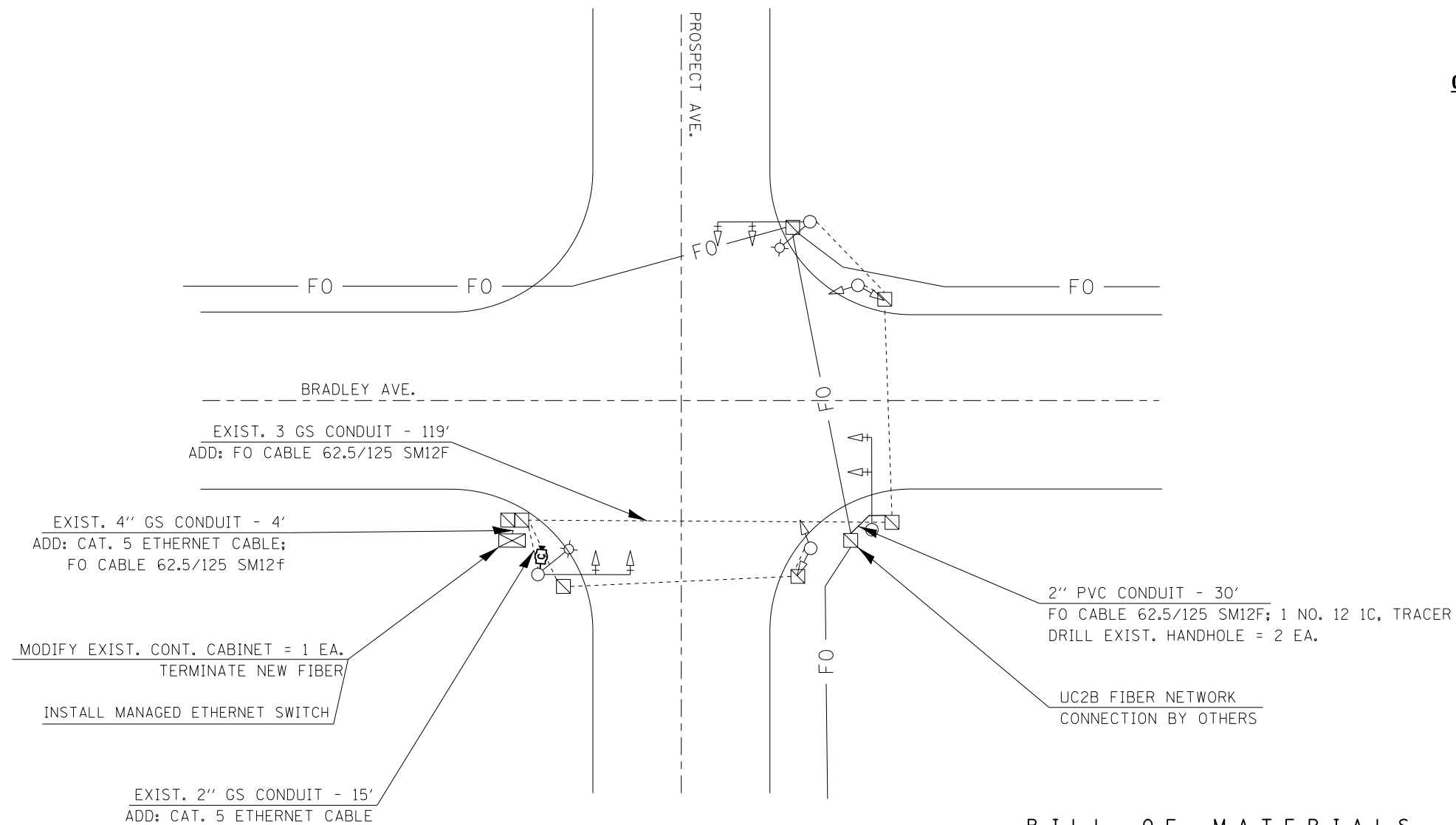
————— FO ————— EXIST. UC2B FIBER OPTIC  
CABLE IN CONDUIT

**PTZ CAMERA INSTALLATION**

**PROSPECT AVE.  
&  
BRADLEY AVE.**

(NOT TO SCALE)

**CAMERA & CONDUIT /CABLE LAYOUT**



**B I L L O F M A T E R I A L S**  
PROSPECT AVE. & BRADLEY AVE.

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	30
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	149
DRILL EXISTING HANDHOLE	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	185

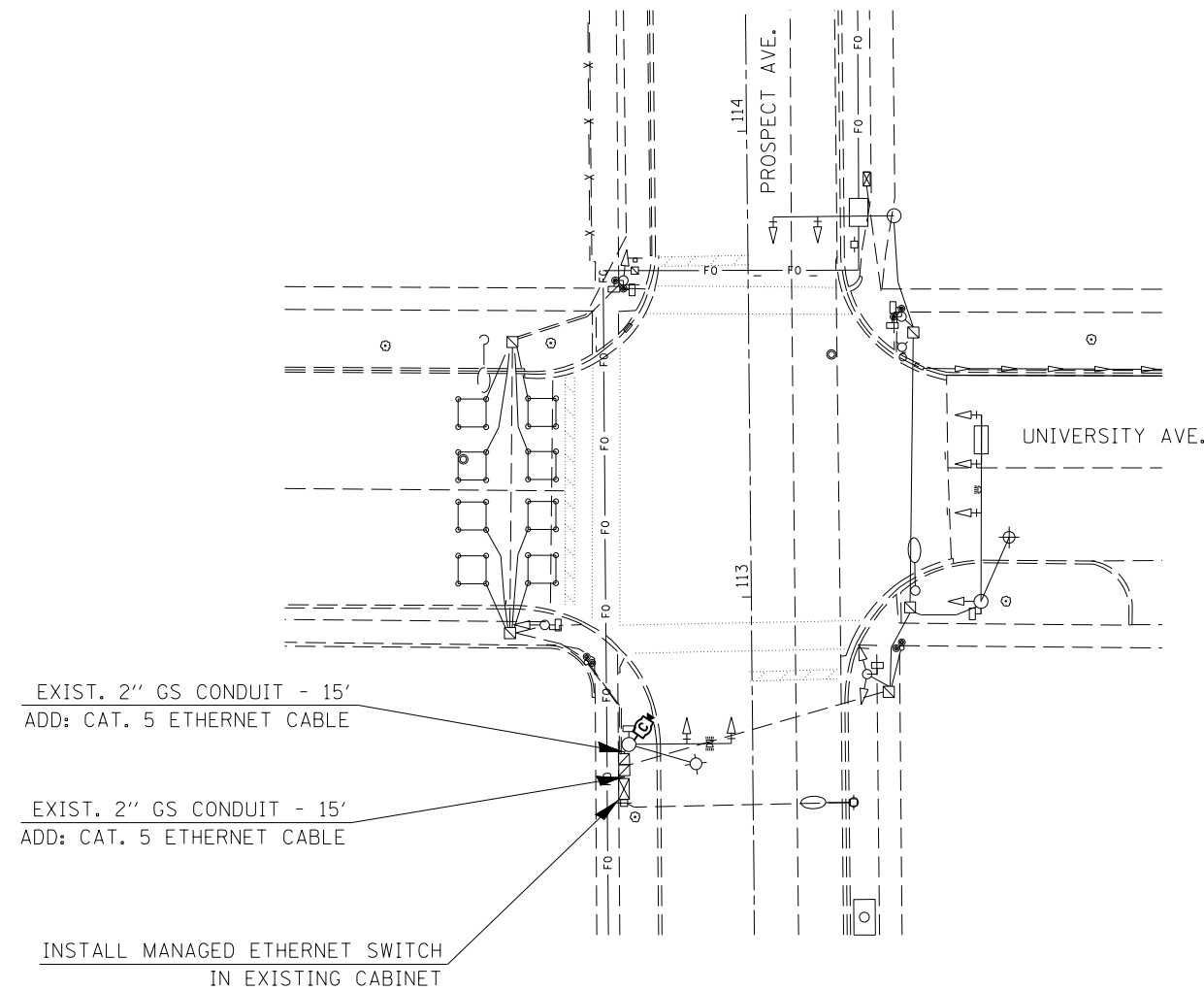
FO ——— EXIST. UC2B FIBER OPTIC  
CABLE IN CONDUIT

**PTZ CAMERA INSTALLATION**

**PROSPECT AVE.  
&  
UNIVERSITY AVE.**

(NOT TO SCALE)

**CAMERA & CONDUIT /CABLE LAYOUT**



**BILL OF MATERIALS**

PROSPECT AVE. & UNIVERSITY AVE.

ITEM	UNIT	QUANTITY
ETHERNET SWITCH	EACH	1
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1

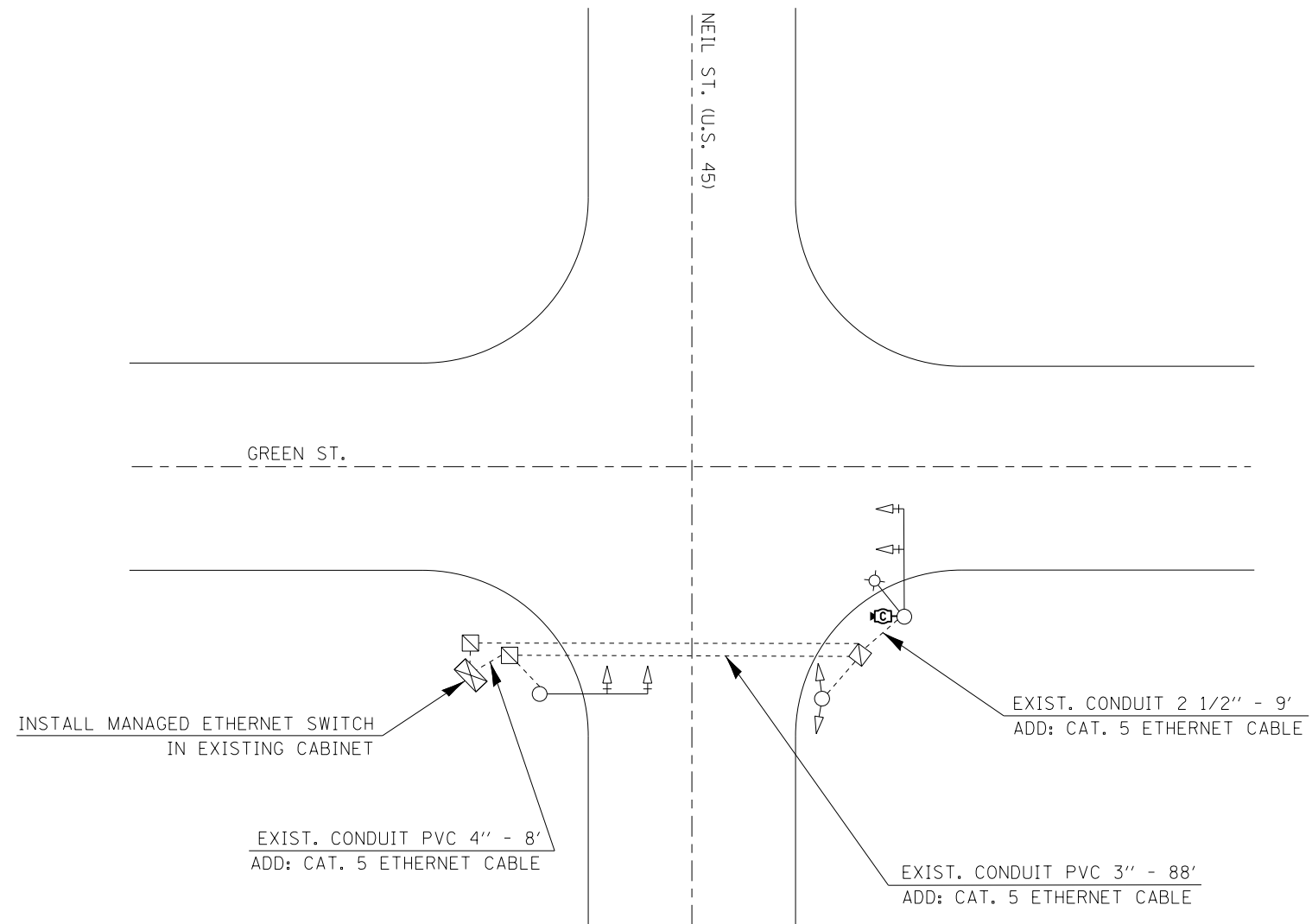
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	PLOT DATE = 6/26/2014	DATE -	REVISED -								ILLINOIS FED. AID PROJECT				

**PTZ CAMERA INSTALLATION**

**NEIL ST. (U.S. 45)  
&  
GREEN ST.**

(NOT TO SCALE)

**CAMERA & CONDUIT /CABLE LAYOUT**



**B I L L O F M A T E R I A L S**

NEIL ST. & GREEN ST.

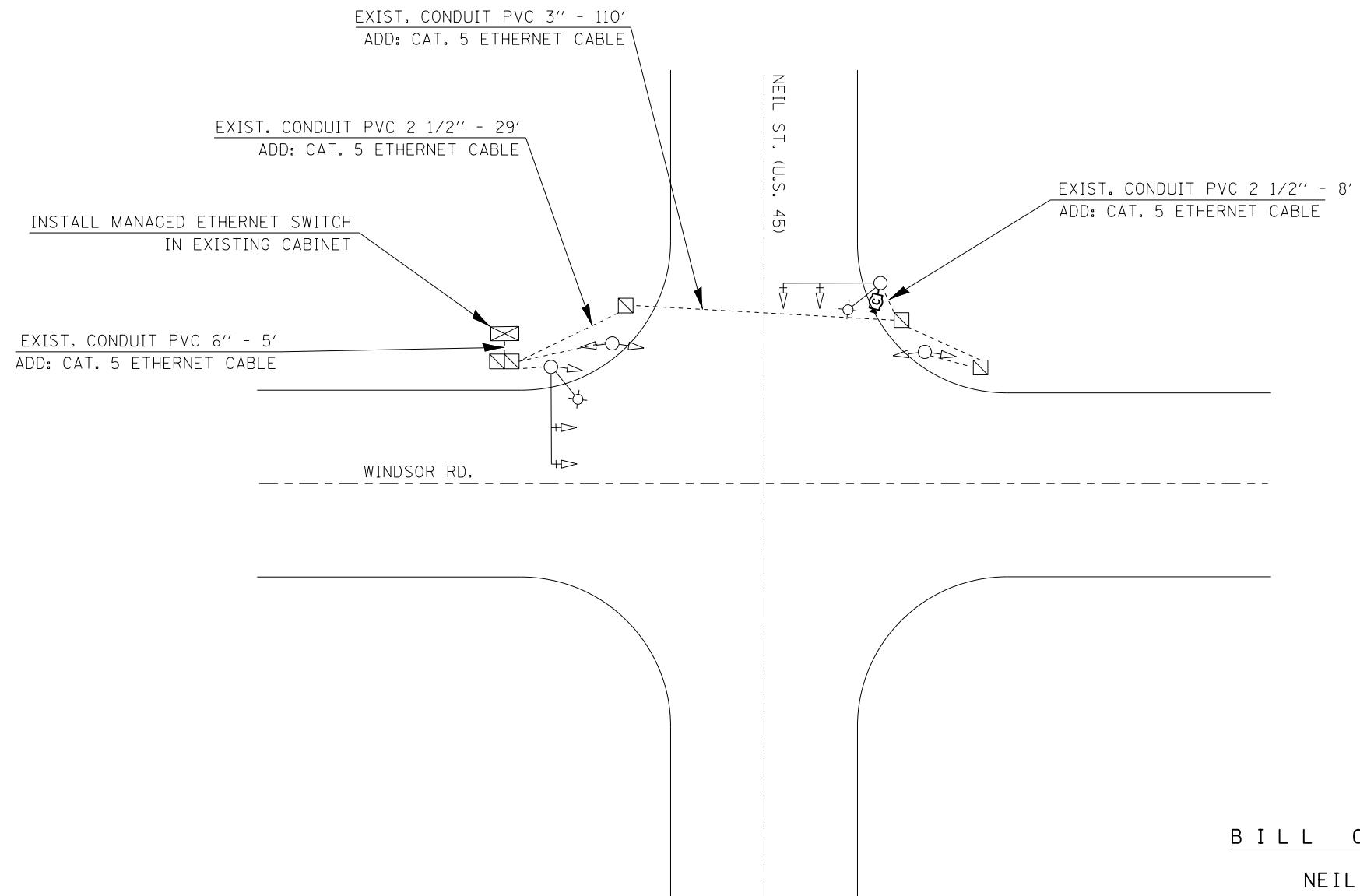
ITEM	UNIT	QUANTITY
ETHERNET SWITCH	EACH	1
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1

**PTZ CAMERA INSTALLATION**

**NEIL ST. (U.S. 45)  
&  
WINDSOR RD.**

(NOT TO SCALE)

**CAMERA & CONDUIT /CABLE LAYOUT**



B I L L O F M A T E R I A L S

NEIL ST. & WINDSOR RD.

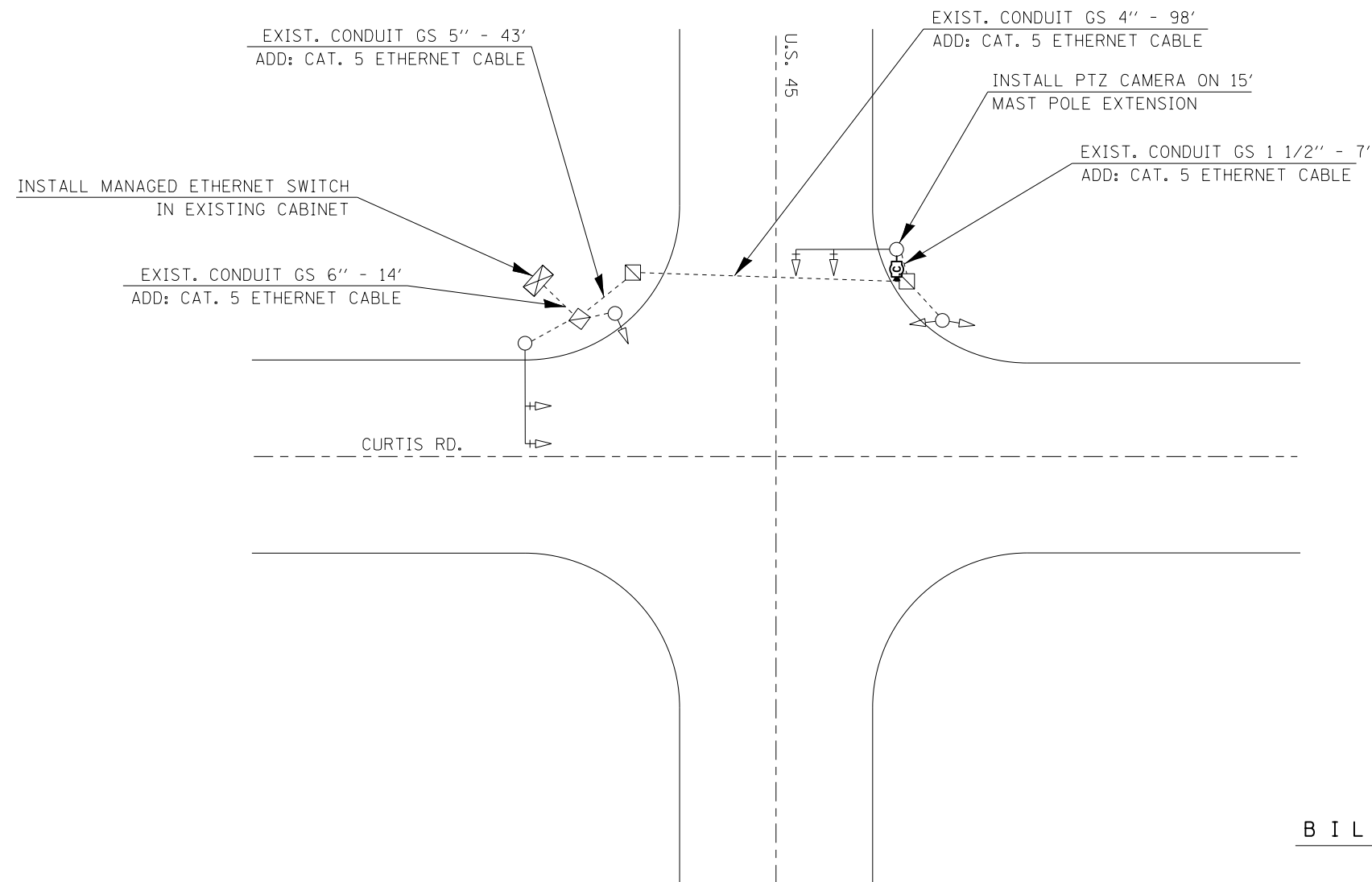
<u>ITEM</u>	<u>UNIT</u>	<u>QUANTITY</u>
ETHERNET SWITCH	EACH	1
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1

# PTZ CAMERA INSTALLATION

U.S. 45 (DUNLAP AVE.)  
&  
CURTIS RD.

(NOT TO SCALE)

## CAMERA & CONDUIT /CABLE LAYOUT



## BILL OF MATERIALS

U. S. 45 & CURTIS RD.

ITEM	UNIT	QUANTITY
ETHERNET SWITCH	EACH	1
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1

FILE NAME =	USER NAME = ceerlockjd	DESIGNED -	REVISED -
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*MODELNAME*	PLOT DATE = 6/26/2014	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	64
CONTRACT NO. 70A26			ILLINOIS FED. AID PROJECT	

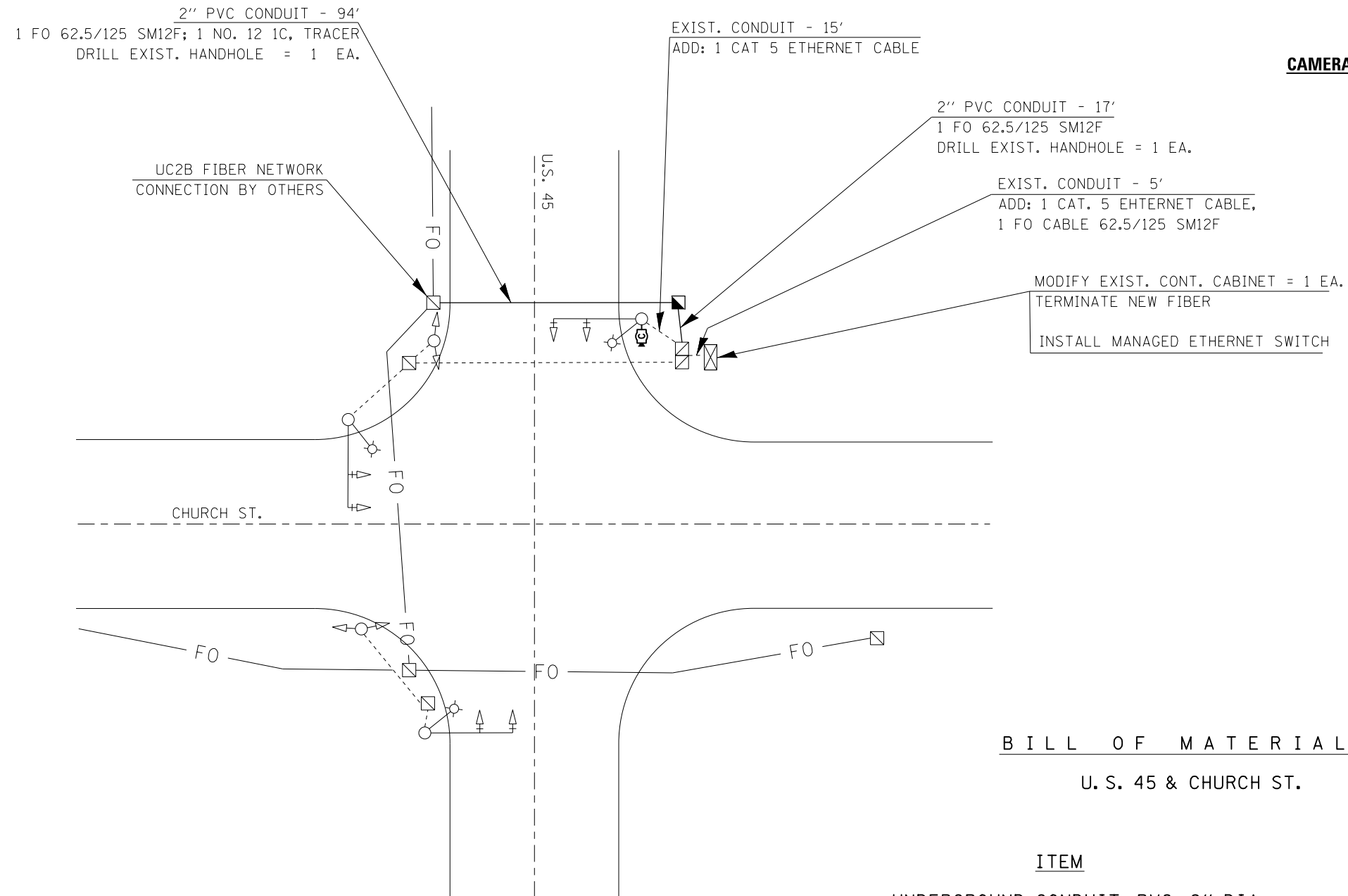


# PTZ CAMERA INSTALLATION & FIBER OPTIC CONNECTION

U.S. 45 (DUNLAP AVE.)  
&  
CHURCH ST.

(NOT TO SCALE)

## CAMERA & CONDUIT /CABLE LAYOUT



FO ——— EXIST. UC2B FIBER OPTIC CABLE IN CONDUIT

## BILL OF MATERIALS

U. S. 45 & CHURCH ST.

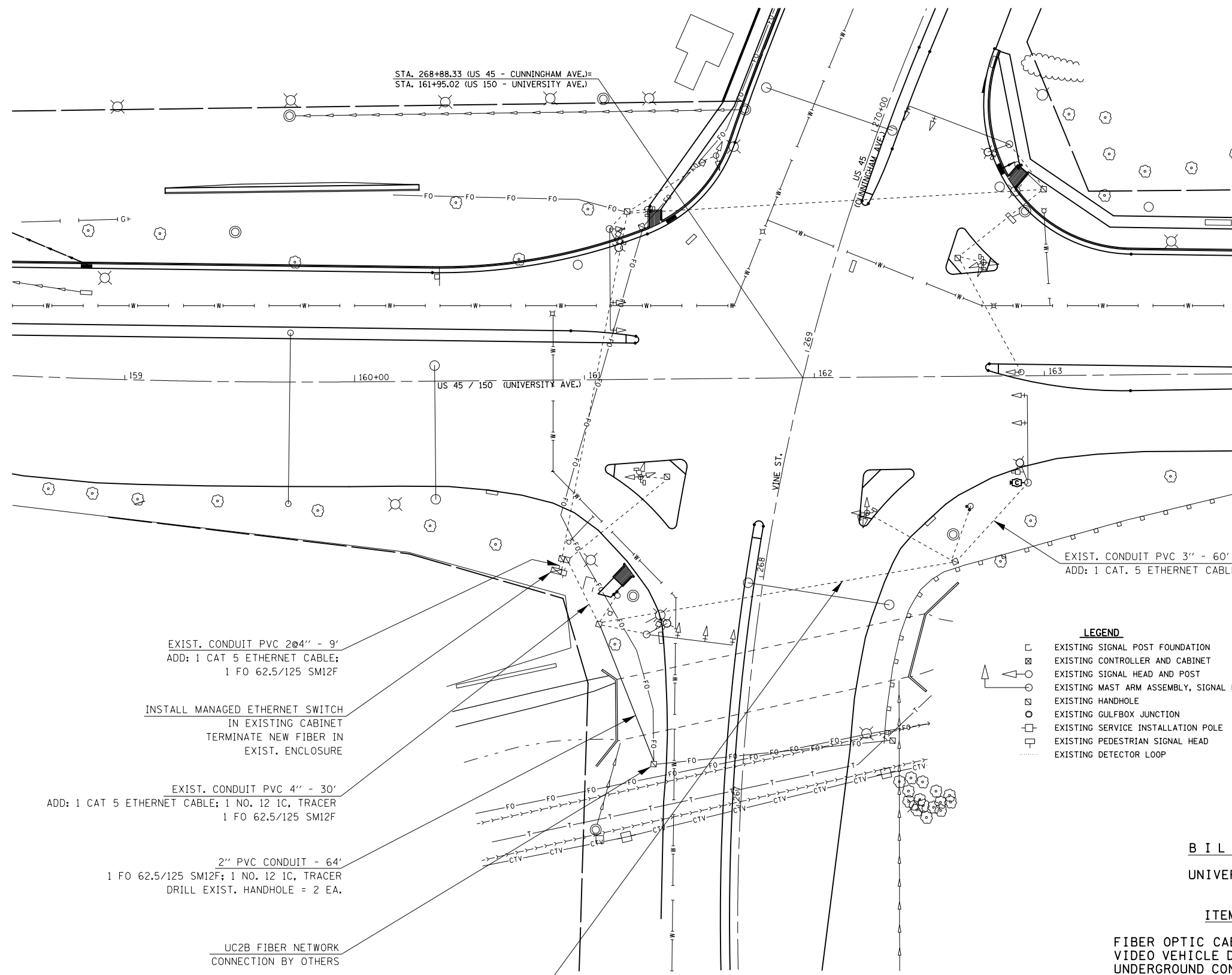
ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	111
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	111
DRILL EXISTING HANDHOLE	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ETHERNET SWITCH	EACH	1
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	151

**PTZ CAMERA INSTALLATION &  
FIBER OPTIC CONNECTION**

**UNIVERSITY AVE.  
&  
CUNNINGHAM AVE.**

(NOT TO SCALE)

**CAMERA & CONDUIT /CABLE LAYOUT**



EXIST. CONDUIT PVC 3" - 60'  
ADD: 1 CAT. 5 ETHERNET CABLE

EXIST. CONDUIT PVC 2@4" - 9'  
ADD: 1 CAT 5 ETHERNET CABLE;  
1 FO 62.5/125 SM12F

INSTALL MANAGED ETHERNET SWITCH  
IN EXISTING CABINET  
TERMINATE NEW FIBER IN  
EXIST. ENCLOSURE

EXIST. CONDUIT PVC 4" - 30'  
ADD: 1 CAT 5 ETHERNET CABLE; 1 NO. 12 IC, TRACER  
1 FO 62.5/125 SM12F

2" PVC CONDUIT - 64'  
1 FO 62.5/125 SM12F; 1 NO. 12 IC, TRACER  
DRILL EXIST. HANDHOLE = 2 EA.

UC2B FIBER NETWORK  
CONNECTION BY OTHERS

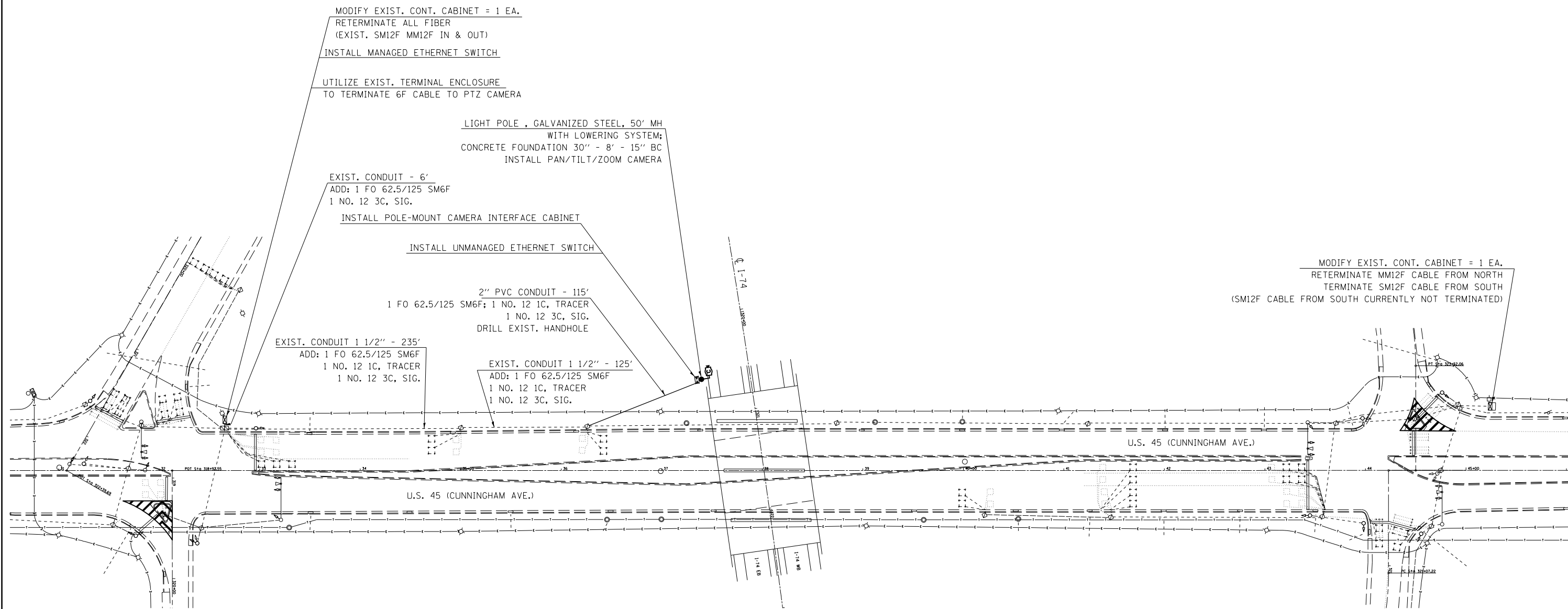
EXIST. CONDUIT PVC 4" - 156'  
ADD: 1 CAT 5 ETHERNET CABLE

FO ———— EXIST. UC2B FIBER OPTIC  
CABLE IN CONDUIT

- LEGEND**
- EXISTING SIGNAL POST FOUNDATION
  - ⊠ EXISTING CONTROLLER AND CABINET
  - EXISTING SIGNAL HEAD AND POST
  - ⊙ EXISTING MAST ARM ASSEMBLY, SIGNAL HEAD
  - ⊞ EXISTING HANDHOLE
  - ⊞ EXISTING GULFBOX JUNCTION
  - ⊞ EXISTING SERVICE INSTALLATION POLE
  - ⊞ EXISTING PEDESTRIAN SIGNAL HEAD
  - ⋯ EXISTING DETECTOR LOOP

**BILL OF MATERIALS**  
UNIVERSITY AVE. & CUNNINGHAM AVE.

ITEM	UNIT	QUANTITY
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	135
VIDEO VEHICLE DETECTION, 4 CAMERAS	EACH	1
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	64
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	94
DRILL EXISTING HANDHOLE	EACH	2
ETHERNET SWITCH	EACH	1
VIDEO SYSTEM DETECTION PROCESSOR	EACH	1
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1



**BILL OF MATERIALS**  
**U. S. 45 & I-74; NORTH RAMP; SOUTH RAMP**

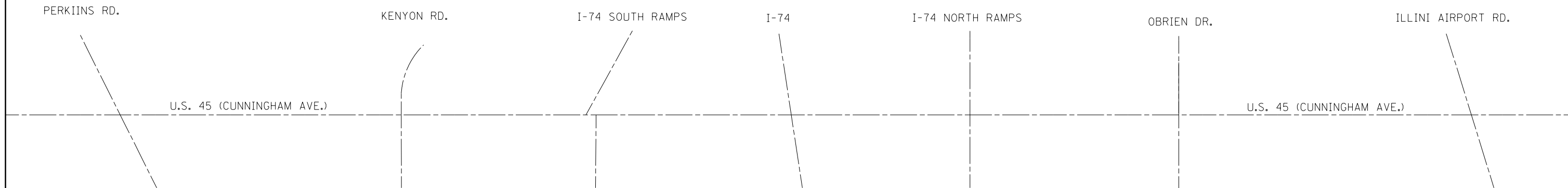
ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	115
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	8
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	475
ELECTRIC CABLE IN CONDUIT, SIGNAL, 12 3C	FOOT	525
DRILL EXISTING HANDHOLE	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	2
CLOSED CIRCUIT TELEVISION CABINET	EACH	1
LIGHT POLE, STEEL 50 FT. WITH CAMERA LOWERING SYSTEM	EACH	1
ETHERNET SWITCH	EACH	2
CLOSED CIRCUIT TELEVISION CAMERA	EACH	1
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	525

**CONTROLLER CABINET MODIFICATIONS**

**U.S. 45 (CUNNINGHAM AVE.)  
PERKINS RD. TO ILLINI AIRPORT DR.**

(NOT TO SCALE)

**BILL OF MATERIALS (PER LOCATION)**



**B I L L O F M A T E R I A L S**

<u>LOCATION</u>	<u>ITEM</u>	<u>UNIT</u>	<u>QUANTITY</u>
PERKINS AVE.	MODIFY EXISTING CONTROLLER CABINET	EACH	1
KENYON RD.	MODIFY EXISTING CONTROLLER CABINET	EACH	1
OBRIEN DR.	MODIFY EXISTING CONTROLLER CABINET	EACH	1
	VIDEO SYSTEM DETECTION PROCESSOR	EACH	1
	VIDEO VEHICLE DETECTION, 4 CAMERAS	EACH	1
	ETHERNET SWITCH (MANAGED)	EACH	1
ILLINI AIRPORT RD.	ETHERNET SWITCH (MANAGED)	EACH	1

**SCHEDULE OF FIBER TERMINATIONS, TERMINAL ENCLOSURES AND ETHERNET SWITCHES**

CABINET LOCATION	CABINET TYPE	MOD. EXIST. CONT. CAB. (EACH)	ENCLOSURE	FIBER TERMINATIONS	ETHERNET SWITCH (SFP) (TYPE / EACH)
Neil St & Kenyon St	Ex.Traffic Signal	1	New 48F	24 1 @ (SM12F MM 12F exist)	Managed (4SM) 1
Neil St & I-74 EB On-ramp	Ex.Traffic Signal	1	New 48F, New 12F	48 2 @ (SM12F MM12F exist), 1 @ (12F SM new)	None
Neil St & I-74 bridge	New pole mount		New 12F	12 1 @ (SM12F CAMERA new)	Unmanaged (1SM) 1
Neil St & I-74 WB Off-ramp	Ex.Traffic Signal	1	New 48F	48 2 @ (SM12F MM12F exist)	None
Prospect Ave & Bloomington Rd	Ex.Traffic Signal		Exist 48F	24 1 @ (SM12F MM12F exist)	None
Prospect Ave & I-74 EB On-ramp	Ex.Traffic Signal	1	New 48F	48 2 @ (SM12F MM12F exist)	Managed (2 SM) 1
Prospect Ave & I-74 WB Off-ramp	Ex.Traffic Signal	1	New 48F	48 2 @ (SM12F MM12F exist)	None
Lincoln Ave & Kilarney St	Ex.Traffic Signal	**	New 48F	24 1 @ (SM12F MM12F new)	None
Lincoln Ave & I-74 EB On-ramp	Ex.Traffic Signal	**	New 48F	48 2 @ (SM12F MM12F new)	None
Lincoln Ave & I-74 WB Off-ramp	Ex.Traffic Signal	**	New 48F	24 1 @ (SM12F MM12F new)	Managed (3 SM)
US 150 & Highcross Rd	Ex.Traffic Signal	1	New 12F	12 1 @ (SM12F new)	Managed (2SM) 1
Windsor Rd & Highcross Rd	Ex.Traffic Signal	1	New 12F	12 1 @ (SM12F new)	Managed (2SM) 1
Univeristy Ave & I-74 bridge	New pole mount		New 12F	12 1 @ (SM12F new)	Managed (2SM) 1
University Ave & Lincoln Ave	Ex.Traffic Signal				Managed (2SM) 1
Springfield Ave & Wright St	Ex.Traffic Signal				Managed (2SM) 1
Springfield Ave & 3rd/4th St	Ex.Traffic Signal	1	New 12F	12 1 @ (SM12F new)	Managed (4SM) 1
Springfield Ave & Neil St	Ex.Traffic Signal				Managed (3SM) 1
Niel St & Kirby Ave	Ex.Traffic Signal				Managed (2SM) 1
Market St & Eisner Rd (Satellite Office)	New Termination Panel		New 12F	12 1 @ (SM12F new)	Unmanaged (1SM) 1
Market St & Eisner Rd (Champaign Storage)	New Termination Panel		New 24F	24 2 @ (SM12F new)	Managed (3SM) 1
Market St & I-57	New pole mount		New 12F	12 1 @ (SM12F new)	Managed (2SM) 1
I-57 0.5 North of Market St (Leverette Storage)	New Termination Panel		New 24F	18 1 @ (SM 12F New) & 1 @ MM 6F exist)	Managed (2SM) 1
I-57 & I-74	New pole mount				Unmanaged (No SFP) 1
I-57 & I-72	New pole mount		New 12F	12 1 @ (SM12F new)	Managed (2SM) 1
I-57 & Curtis Rd	New pole mount		New 12F	12 1 @ (SM12F CAMERA)	Managed (2SM) 1
Mattis Ave & Church St	Ex.Traffic Signal				Managed (2MM) 1
Mattis Ave & Bradley Ave	Ex.Traffic Signal	1	New 12F	12 1 @ (SM12F new)	Managed (4SM 1MM) 1
Mattis Ave & Bloomington Rd	Ex.Traffic Signal		New 12F	12 1 @ (SM12F new)	Managed (3SM) 1
Springfield Ave & Duncan Rd	Ex.Traffic Signal	1	New 12F	12 1 @ (SM12F new)	Managed (2SM) 1
Springfield Ave & Staley Rd	Ex.Traffic Signal	1	New 12F	12 1 @ (SM12F new)	Managed (2SM) 1
Prospect Ave & Bradley Ave	Ex.Traffic Signal	1	New 12F	12 1 @ (SM12F new)	Managed (4SM) 1
Prospect Ave & University Ave	Ex.Traffic Signal				Managed (2SM) 1
Neil St & Green St	Ex.Traffic Signal				Managed (2SM) 1
Neil St & Windsor Ave	Ex.Traffic Signal				Managed (2SM) 1
US 45 (Dunlap Ave) & Curtis Rd	Ex.Traffic Signal				Managed (2SM) 1
US 45 (Dunlap Ave) & Church St	Ex.Traffic Signal	1	New 12F	12 1 @ (SM12F new)	Managed (4SM) 1
University Ave & Cunningham Ave	Ex.Traffic Signal		New 12F	12 1 @ (SM12F new)	Managed (4SM) 1
Cunningham Ave & Perkins Rd	Ex.Traffic Signal		New 48F	24 1 @ (SM12F MM12F exist)	None
Cunningham Ave & Kenyon Rd	Ex.Traffic Signal		New 48F	48 2 @ (SM12F MM12F exist)	None
Cunningham Ave & I-74 South Ramps	Ex.Traffic Signal	1	New 48F, New 12F	60 2 @ (SM12F MM12F exist), 1 @ (SM12F new)	Managed (2SM 1MM) 1
Cunningham Ave & I-74 bridge)	New pole mount		New 12F	12 1 @ (SM12F new)	Unmanaged (1SM) 1
Cunningham Ave & I-74 North Ramps	Ex.Traffic Signal	1	New 48F	36 1 @ (SM12F MM 12F exist) & 1 @ MM12F exist)	None
Cunningham Ave & O'Brien Dr	Ex.Traffic Signal	1	New 48F	24 2 @ (MM12F exist)	Managed (2MM) 1
Cunningham Ave & Illini Airport Rd	Ex.Traffic Signal	1	New 48F	12 1 @ (MM12F exist)	Managed (1MM) 1
DMS Location - I-57 NB R226.45			New 12F	12 1 @ (SM12F new)	Managed (2SM) 1
DMS Location - I-57 SB L242.78			New 12F	12 1 @ (SM12F new)	Managed (2SM) 1
DMS Location - I-74 EB R172.83			New 12F	12 1 @ (SM12F new)	Managed (2SM) 1
DMS Location - I-74 WB L189.05			New 12F	12 1 @ (SM12F new)	Managed (2SM) 1
DMS Location - I-72 EB R178.29					Managed (2SM) 1

MOD. EXIST. CONT. CAB. = 17 EACH      FIBER TERMINATIONS 774 (for information only)      ETHERNET SWITCH = 39 EACH

\*\* Distribution Enclosures included in the pay item TRANSCEIVER - FIBER OPTIC at this location

**SCHEDULES (PAY ITEMS)**

**SCHEDULES (NON - PAY ITEMS)**

SERVICE INSTALLATION, TYPE A

DMS location	EACH
I-57 NB R226.45	1
I-57 SB L242.78	1
I-74 EB R172.83	1
I-74 WB L189.05	1
I-72 EB R178.29	1
<b>Total =</b>	<b>5 EACH</b>

JUNCTION BOX, SS. AT TO STR. 18" X 18" X 8"

LOCATION	EACH
University Ave & I-74 bridge	2
D5 SIGN SHOP SATELLITE	1
CHAMPAIGN STORAGE	1
LEVERETTE STORAGE	1
<b>Total =</b>	<b>5 EACH</b>

HANDHOLE

LOCATION	EACH
Lincoln Ave. & I-74	1
University Ave. & I-74	3
Springfield Ave. & 3rd/4th St.	1
Market St. & Eisner Rd.	3
Market St. & I-57	1
I-57 & I-74	3
I-57 & I-72	3
I-57 & Curtis Rd.	1
Springfield Ave. & Duncan Rd.	1
U.S. 45 (Dunlap Ave.) & Church St.	1
<b>Total =</b>	<b>18 EACH</b>

TRANSCEIVER - FIBER OPTIC

LOCATION	EACH
Lincoln Ave. & Kilmer St.	1
Lincoln Ave. & I-74 EB off-ramp	1
Lincoln Ave. & I-74 WB on-ramp	1
<b>Total =</b>	<b>3 EACH</b>

TRANSFORMER - GENERAL PURPOSE

LOCATION	EACH
University Ave. & I-74	1
I-57 & I-74	1
I-57 & I-72	1
<b>Total =</b>	<b>3 EACH</b>

CLOSED CIRCUIT PTZ DOME CAMERAS

Location	Each
I-74 & Neil	1
I-74 & Prospect	1
I-74 & Lincoln	1
US 150 & High Cross	1
I-74 & University	1
University & Lincoln	1
Springfield & Wright	1
Springfield & Neil	1
Neil & Kirby	1
I-57 & Market	1
I-57 & I-74	1
I-57 & I-72	1
I-57 & Curtis	1
Mattis & Church	1
Mattis & Bradley	1
Mattis & Bloomington	1
Prospect & Bradley	1
Prospect & University	1
Neil & Green	1
Neil & Windsor	1
US 45 & Curtis	1
US 45 & Church	1
University & Cunningham	1
I-74 & Cunningham	1
I-57 NB Message Board	1
I-57 SB Message Board	1
I-72 EB Message Board	1
I-74 EB Message Board	1
I-74 WB Message Board	1
<b>Total =</b>	<b>29 EACH</b>

CLOSED CIRCUIT TELEVISION CABINET

LOCATION	EACH
Neil St. & I-74	1
University Ave. & I-74	1
Market St. & I-57	1
I-57 & I-72	1
I-57 & Curtis Rd.	1
I-74 & Cunningham Ave.	1
<b>Total =</b>	<b>6 EACH</b>

CELLULAR MODEM

I-57 NB Message Board	1
I-57 SB Message Board	1
I-72 EB Message Board	1
I-74 EB Message Board	1
I-74 WB Message Board	1
<b>Total =</b>	<b>5 EACH</b>

LIGHT POLE, GALVANIZED STEEL, 50 FT., TENON MOUNT

Neil St. & I-74 bridge	1
Prospect Ave. & I-74 bridge	1
Lincoln Ave. & I-74 bridge	1
University Ave. & I-74 bridge	1
I-57 & Curtis Rd. bridge	1
I-74 & Cunningham Ave. bridge	1
<b>Total =</b>	<b>6 Each</b>

DRILL EXISTING HANDHOLE

LOCATION	EACH
Neil St. & I-74	1
Prospect Ave. & I-74	1
Lincoln Ave. & I-74	3
U.S. 150 & Highcross Rd. (IL. 130)	2
Windsor Rd. & Highcross Rd.	2
University Ave. & I-74	1
University Ave. & 3rd/4th St.	1
Market St. & Eisner Rd.	1
Market St. & I-57	1
I-57 0.5 North of Market St.	1
I-57 & I-72	1
I-57 & Curtis Rd.	1
Mattis Ave. & Bradley Ave.	2
Mattis Ave. & Bloomington Rd.	2
Springfield Ave. & Duncan Rd.	1
Springfield Ave. & Staley Rd.	2
Prospect Ave. & Bradley Ave.	2
U.S. 45 (Dunlap Ave.) & Church St.	2
University Ave. & Cunningham Ave.	2
U.S. 45 & I-74	1
I-57 NB R226.45	1
I-57 SB L242.78	1
I-74 EB R172.83	1
I-72 EB R178.29	1
<b>Total =</b>	<b>34 EACH</b>

VIDEO VEHICLE DETECTION PROCESSOR

LOCATION	EACH
Springfield & Staley	1
Springfield & Duncan	1
Springfield & Wright	1
University & Cunningham	1
Cunningham & O'Brien	1
<b>Total =</b>	<b>5 EACH</b>

Ethernet Switch Transceivers

Managed Switches	Location	#SMSFP's	#MMSFP's
Neil & Kenyon	1	4	0
Prospect & I-74 EB On-Ramp	1	2	0
Lincoln & I-74 WB Off-Ramp	1	3	0
US 150 & Highcross	1	2	0
Highcross & Windsor	1	2	0
I-74 & University	1	2	0
University & Lincoln	1	2	0
Springfield & Wright	1	2	0
Springfield & 4th	1	4	0
Springfield & Neil	1	3	0
Neil & Kirby	1	2	0
Market & Eisner (Storage)	1	3	0
I-57 & market	1	2	0
Leverett Storage	1	2	0
I-57 & I-72	1	2	0
I-57 & Curtis	1	2	0
Mattis & Church	1	0	2
Mattis & Bradley	1	4	1
Mattis & Bloomington	1	3	0
Springfield & Duncan	1	2	0
Springfield & Staley	1	2	0
Prospect & Bradley	1	4	0
Prospect & University	1	2	0
Neil & Green	1	2	0
Neil & Windsor	1	2	0
US 45 & Curtis	1	2	0
US 45 & Church	1	4	0
Cunningham & University	1	4	0
Cunningham & I-74 S. Ramp	1	2	1
Cunningham & O'Brien	1	0	2
Cunningham & Airport	1	0	1
I-57 NB Message Board	1	2	0
I-57 SB Message Board	1	2	0
I-72 EB Message Board	1	2	0
I-74 EB Message Board	1	2	0
I-74 WB Message Board	1	2	0
<b>Total Managed Switches =</b>	<b>36 Each</b>	<b>82</b>	<b>7</b>

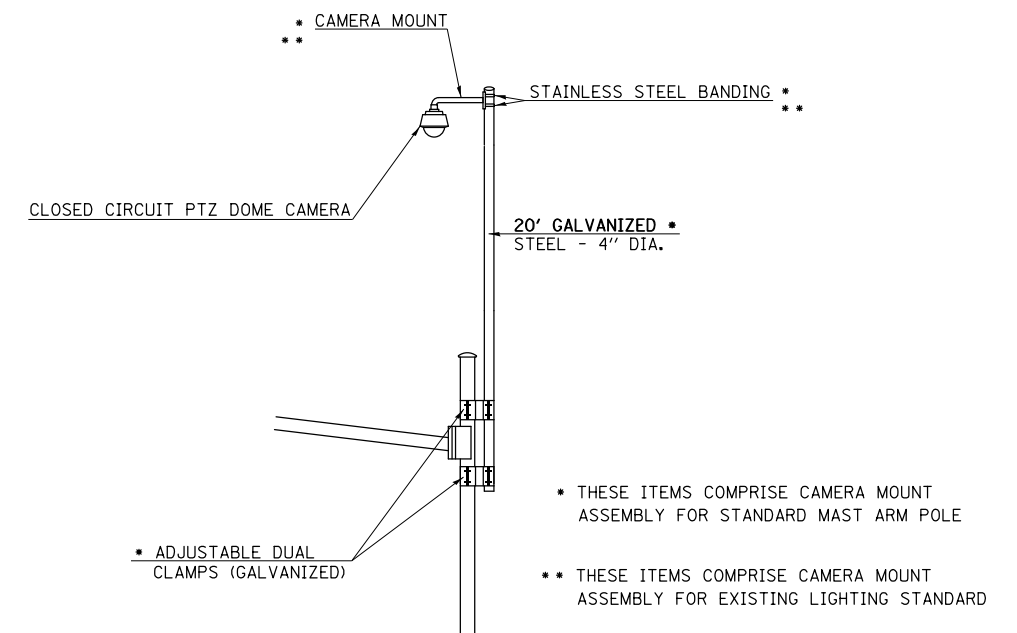
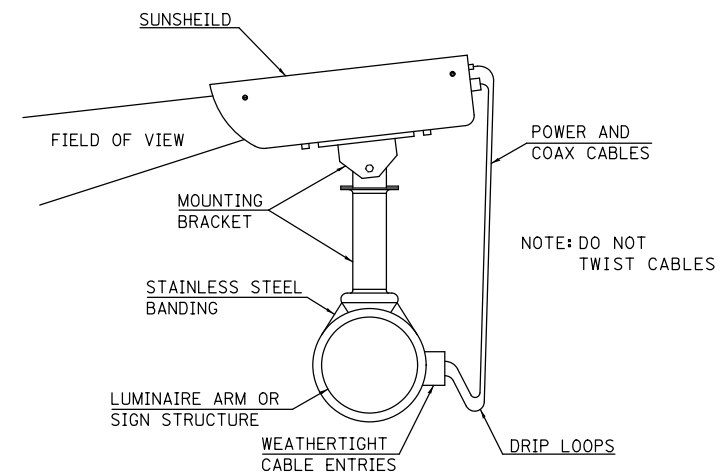
Future Connection Locations into UC2B Network

I-74 & Lincoln S. Ramp	1
US 150 & High Cross	1
IL 130 & Windsor	1
I-74 & University	1
Springfield & 3rd	1
Market St. & Eisner	1
I-57 & Curtis	1
Mattis & Bradley	1
Mattis & Bloomington	1
Springfield & Duncan	1
Springfield & Staley	1
Prospect & Bradley	1
US 45 & Church	1
University & Cunningham	1
<b>Total Locations =</b>	<b>14</b>

Future Connection Locations into ICN Network

I-57 & Market	1
I-57 & Leverett Storage	1
I-57 & I-72	1
I-57 NB Message Board	1
I-57 SB Message Board	1
I-72 EB Message Board	1
I-74 EB Message Board	1
<b>Total Locations =</b>	<b>7</b>

### VIDEO CAMERA MOUNTING DETAIL



### CAMERA MOUNTING ASSEMBLY DETAIL

(FOR STANDARD MAST ARM POLE MOUNT, LIGHTING STANDARD & DMS STRUCTURE)

FILE NAME =	USER NAME = ceerlockjd	DESIGNED -	REVISED -
ci:\pwork\work\pwork\ceerlockjd\0340463\P	Z camera plans.dgn	DRAWN -	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
*MODELNAME*	PLOT DATE = 6/26/2014	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

#### CAMERA MOUNT DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2014 ITS-1	CHAMPAIGN	71	71
CONTRACT NO. 70A26			ILLINOIS FED. AID PROJECT	