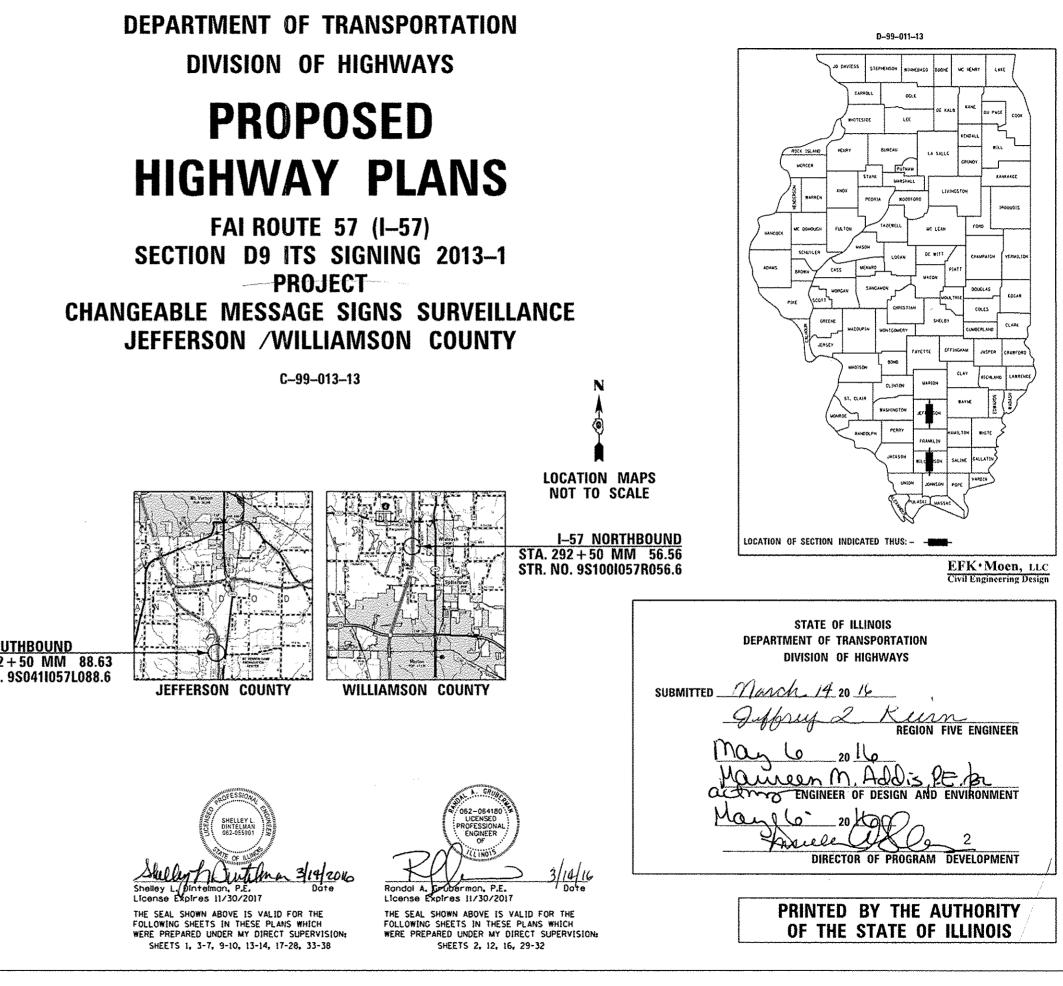
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2	SYMBOLS, GENERAL & ITS NOTES
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	DRILLED SHAFT DETAIL
27-28	BORING LOGS

**STATE OF ILLINOIS** 

# PROPOSED

**FAI ROUTE 57 (I–57) SECTION D9 ITS SIGNING 2013-1** ---PROJECT-

**JEFFERSON /WILLIAMSON COUNTY** 



# **HIGHWAY STANDARDS**

29-32 ITS DETAILS 33-38 CROSS SECTIONS

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С

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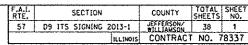
701401-09
701406-10
701428-01
701901-05
878001-10

I-57 SOUTHBOUND STA. 432+50 MM 88.63 STR. NO. 9S0411057L088.6

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

**PROJECT ENGINEER: CHARLES STEIN, PE (618-351-5210) PROJECT DESIGNER** 

**CONTRACT NO. 78337** 



INTELLIGENT TRANSPORTA SYSTEMS (ITS) ITEMS	TION EXISTING	(EX) PROPOSED (PR)
CCTV POLE	0	٠
CLOSED CIRCUIT TV	Ô	©
DYNAMIC MESSAGE SIGN		DMS
CELLULAR MODEM	Å	å
UNDERGROUND UTILITY ITEMS EX	PR	ABANDONED
ELECTRIC CABLE E	E	— → — E — →
FIBER OPTIC CONDUIT (SPARE) FO	FO	— — F0 — /
DATA CABLE D	D	<u> </u>
UTILITIES ITEMS	EX	PR
ITS CABINET	8	B
HANDHOLE	Z	<b>D</b>
HEAVY DUTY HANDHOLE		Θ
JUNCTION BOX	0	0
LIGHT POLE	ø	×
ELECTRIC METER	۹	0
POWER POLE	-0-	~ <b>@</b> •
ELECTRICAL DISCONNECT	-C	- <b>1</b>
PAD MOUNTED TRANSFORMER (480V/240V)	C	<b>a</b>
POLE MOUNTED TRANSFORMER	٢	٥

# **GENERAL NOTES**

- 1. THE COST OF SPLICES, MARKERS, PATCH PANELS AND PATCH CHORDS SHALL BE INCLUDED IN THE UNIT COST OF EACH EQUIPMENT CABINET PER THE SPECIAL PROVISIONS.
- 2. DYNAMIC MESSAGE SIGN IOMS) SUPPORTING SIGN STRUCTURE AND FOUNDATION WORK IS SHOWN ON STRUCTURAL DRAWINGS. THE INSTALLATION OF THESE AND OTHER FOUNDATIONS. INCLUDING BUT NOT LIMITED TO CONDUITS AND GROUNDING, SHALL BE COORDINATED WITH THE ELECTRICAL WORK FOR DMS, CCTV VERIFICATION CAMERA AND OTHER RELATED EQUIPMENT.
- 3. FOR ALL INTELLIGENT TRANSPORTATIONS SYSTEMS (ITS) ASSEMBLIES/EQUIPMENT, SPECIAL LABELING FOR ENCLOSURES, CABLES (POWER AND COMMUNICATIONS), EQUIPMENT, ETC. SHALL BE PROVIDED. THE LABELING IS REQUIRED AT BOTH ENDS OF THE ITS ASSEMBLY COMPONENT (E.G. INSIDE ENCLOSURES AT THE ITS ASSEMBLY/COMPONENT) AS WELL AS AT THE OTHER CONNECTING END (E.G. EQUIPMENT CABINET/ SERVICE ENTRANCE). THE LABELING IS ALSO REQUIRED WHERE CABLES ARE SPLICED IN HANDHOLES AND JUNCTION BOXES. ADDITIONALLY. SPARE CONDUITS INSIDE CABINETS AND FACILITIES SHALL BE LABELED AS SPARE AND A DESIGNATION OF THE OTHER END SHALL BE PROVIDED. THE COST OF LABELING SHALL BE INCLUDED IN THE WORK INCLUDING CONVERSIONS OF THE ITS ASSEMBLY/COMPONENT AS STATED IN THE RESPECTIVE ITS ASSEMBLY/COMPONENT SPECIAL PROVISION.
- 4. ANY CONDUIT, FOR ITS POWER OR COMMUNICATIONS CABLING ENTERING A POLE MOUNTED OR ABOVE GROUND ENCLOSURE, EQUIPMENT FOUNDATION, OPERATIONAL BUILDING, MAINTENANCE FACILITY SHALL BE CALVANIZED STEEL CONDUIT. THE GALVANIZED STEEL CONDUIT SHALL EXTEND & MINIMUM OF FIVE FEET (5') OUTSIDE CONCRETE FOUNDATIONS, AND & MINIMUM OF TEN FEET (10') OUTSIDE POLE MOUNTED/ABOVE GROUND ENCLOSURES. THE COST OF SUCH GALVANIZED STEEL CONDUIT SHALL BE INCLUDED IN THE ELECTRICAL WORK FOR THE EQUIPMENT BEING CONNECTED.
- 5. THE CONTRACTOR SHALL COCRDINATE WITH THE CONSTRUCTION MANAGER AND THE IT DATA COMMUNICATION MANAGER, IN ADVANCE OF. ANY IMPACT TO ITS EQUIPMENT BY CONSTRUCTION (INSTALL, REMOVE, RELOCATE, DISCONNECT OR MODIFY).
- 6. EXISTING SURFACE DISTURBED DURING EXCAVATION FOR FOUNDATIONS AND PUSH PITS SHALL BE RESTORED TO THE LIMITS AND CONDITION SPECIFIED BY THE ENGINEER OR AS SHOWN ON THE PLANS. UNLESS NOTED OTHERWISE ON THE PLANS THE REMOVAL AND RESTORATION SHALL BE INCLUDED IN THE CONTRACT.
- 7. UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION AND THEIR TRUE LOCATIONS ARE NOT GUARANTEED TO BE SHOWN IN THE PLANS.
- 8. EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED UPON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATION OF THESE FEATURES MUST. THEREFORE, BE CONSIDERED APPROXIMATE ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DID NOT EXIST OR THE EXISTENCE OF WHICH WAS NOT KNOWN AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY; AND TO PROTECT ALL SUCH EXISTING FEATURES DURING CONSTRUCTION.
- 9. GRADING SHALL BE DONE BY HAND AROUND LIGHT POLE, UTILITY POLES, SIGN POSTS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE IN THE ORIGINAL STATE AS MUCH AREA AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SQUARE YARD FOR GRADING AND SHAPING FORESLOPES AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. EARTHWORK COMPACTION SHALL BE TO THE SATISFACTION OF THE ENGINEER.
- 10. SEEDING SHALL BE DONE ON ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION OPERATIONS AS DIRECTED BY THE ENGINEER. SEEDING SHALL BE PAID FOR ONLY WITHIN THE PROPOSED CONSTRUCTION LIMITS, RIGHT-OF-WAY, OR EASEMENT LIMITS. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED. AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
- 11. IF ASH TREES ARE REMOVED ON THE PROJECT, THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH MEASURES SPECIFIED BY THE ILLINOIS DEPARTMENT OF AGRICULTURE (IDDA) TO PREVENT THE SPREAD OF THE EMERALD ASH BORER. THE IDOA INFORMATION FOR ASH TREE REMOVAL CAN BE FOUND ON THE IDDA WEBSITE AT WWW.AGR.STATE.IL.US/EAB.
- 12. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL EXISTING FIELD DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

# TS NOTES

FILF NAME :	USER NOPE Cyderdaen	DESIGNED HAG	REVISED -			
82 General Novae.dgn		ORAWN OTL	REVISED ~	STATE OF ILLINOIS		SYMBOLS, GENERAL & ITS
	PLOT SCHER & ZUD02 17 or	CHECKED KLG	REVISED -	DEPARTMENT OF TRANSPORTATION		
-	PLOT DATE = 3/16/2015	DATE 03-16-15	REVISED		SCALE: N.A. SHEET	1 OF 1 SHEETS STA.

# **ITS NOTES**

- CABINET.
- OPERATIONAL SYSTEM.

- BE ISSUED AS PART OF THIS PROJECT.

- PRIOR TO FINAL INSTALLATION.

1. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO PERFORMING ANY EXCAVATION, INSTALLING GROUND ROD AND/OR FOUNDATIONS.

2. LOCATIONS OF ITS AND POWER ELEMENTS ARE APPROXIMATE, FINAL LOCATIONS WILL BE APPROVED BY THE DEPARTMENT. THE CONTRACTOR SHALL STAKE FIELD LOCATIONS AND THE DEPARTMENT WILL VERIFY AND APPROVE FINAL LOCATIONS.

3. THE CONTRACTOR IS RESPONSIBLE FOR OPERATING AND MAINTAINING PROPOSED ITS EQUIPMENT. THE COST OF SUCH MAINTENANCE AND OPERATION IS INCLUDED IN EACH TYPE OF PROPOSED ITS EQUIPMENT UNTIL FINAL ACCEPTANCE.

4. THE CONTRACTOR SHALL NOT DISTURB WETLAND AREAS AND/OR WATERS OF THE U.S.

5. THE CONTRACTOR SHALL PROVIDE THE MINIMUM SPECIFIED SLACK LENGTH OF COMMUNICATIONS LOOPED IN EACH HANDHOLE OR JUNCTION BOX. RESPECTIVE MINIMUM SLACK LENGTHS SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS, OR AS DIRECTED BY THE ENGINEER.

6. CATEGORY 6 CABLE SHALL BE PULLED UN-SPLICED FROM CCTV VERIFICATION CAMERA TO ITS

7. THE CONTRACTOR IS RESPONSIBLE FOR ALL DWS AND CCTY LICENSING FOR A COMPLETE AND

8. THE CONTRACTOR IS RESPONSIBLE FOR ALL PROGRAMMING AND VIRTUAL PRIVATE NETWORK CONFIGURATION FROM THE DESIGNATED REMOTE OPERATIONS TO THE DMS AND CCTV CAMERAS. CONTRACTOR SHALL COORDINATE WITH THE DEPARTMENT IT FOR ALL PROGRAMMING AND INTEGRATION OF DWS AND CCTV CAMERAS INTO THE EXISTING DEPARTMENT NETWORK.

9. THE CONTRACTOR IS RESPONSIBLE FOR THE SETUP OF CELLULAR MODEMS AT EACH DMS SITE LOCATION. CONTRACTOR SHALL VERIFY 4G CELLULAR DATA SERVICE IS AVAILABLE AT EACH LOCATION WITH CELLULAR DATA SERVICE PROVIDER.

10. THE CONTRACTOR SHALL PROVIDE (1) ONE YEAR OF CELLULAR DATA SERVICE VIA CONTRACTOR PROVIDED CELLULAR 4G MODEM AT BOTH DMS SITE LOCATIONS.

11. THE CONTRACTOR IS RESPONSIBLE FOR THE SETUP OF ALL DWS AND CCTV CAMERA SOFTWARE FOR REMOTE OPERATIONS OF DMS AND CCTV SYSTEMS ON CONTRACTOR PROVIDED LAPTOP TO

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CCTV CAMERA VIEWS AND SETTING (RESOLUTION & FRAME RATE) WITH THE DEPARTMENT STAFF PRIOR TO FINAL INSTALLATION.

13. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EQUIPMENT GROUNDING AND LIGHTNING PROTECTION (I.E. ITS CABINET EQUIPMENT, CCTV POWER INJECTOR, NETWORK ELECTRONICS, CCTV CABLING, ETC.).

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NETWORK EQUIPMENT PROGRAMMING AND COORDINATING NETWORK IP AND SUBNET MASK SCHEMES WITH THE DEPARTMENT IT STAFF

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ſ. R	4.1. E.	SE	CTION		COUNTY	TOTAL SHEETS	SHEET NO.
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1					CONTRACT	NO. 7	8337

ILLINOIS FED. AND PROJECT

				,	STAR
					TION CODE
CODE			TOTAL	JEFFERSON TRAFFIC SIGNS 0021	WILLIAMSON TRAFFIC SIGNS 0021
NÔ.	ITEM	UNIT	QUANTITY	RURAL	RURAL
25000210	SEEDING, CLASS 2A	ACRE	1.25	0.75	0.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	113	68	45
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	113	68	45
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	113	68	45
25100115	MULCH, METHOD 2	ACRE	1.25	0, 75	0.5
		-			
28000400	PERIMETER EROSION BARRIER	FOOT	364	364	
28000500	INLET AND PIPE PROTECTION	EACH	2	1	1
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	950	637.5	312.5
	170515				
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	5	3	2
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	5	3	2
	IANGENI				
67100100	MOBILIZATION	LSUM	1	0.5	0.5
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD	EACH	2		1
	701401				
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1		1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	-60	30	30
SPECIALTY	I I EM				
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FILE NAME =	USER NAME = jd	DESIGNED -	JRD/RAG	REVISED -					
TEN14010 IDOT DA ITS/DON/Design/Pretim/Po	otaheata\0978337-003-006-500.dgn	DRAWN -	JRO	REVISED -	STATE OF ILLINOIS		SUI	MMARY	OF QUAN
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				JEFFERSON	WILLIAMSON			
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0021 RURAL	TRAFFIC SIGNS 0021 RURAL			
70200100	NIGHTTIME WORK ZONE LIGHTING	LSUM	4	0.5	0.5			
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	520	520	· · · · · · · · · · · · · · · · · · ·			
73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	FOOT	171	74	97			
73301810	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	13	6	7			
73400100	CONCRETE FOUNDATIONS	CU YD	1.4	1.4				
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	45.1	23. 9	21.2			
78200410	GUARDRAIL MARKERS, TYPE A	EACH	20	12	8			·
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	5.	3	2			
80400100	ELECTRIC SERVICE INSTALLATION	EACH	2	1	1			
80500020	SERVICE INSTALLATION - POLE MOUNTED	ЕАСН	2	1	1			
81028200	UNDERCROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FODT	490	240	250			
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	2000	1500	500			
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FODT	150	150				
81028730	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/4" DIA.	FOOT	2805	2170	635			
SPECIALTY	ITEM		****					ЕГК•Моеп, п
	VISED - STATE OF ILLING				SUMMARY OF QUANTI	IES	F.A.I. RTE. 57 D9 ITS SIGNI	Civil Engineering Desi ON COUNTY TOTAL SH SHEETS N

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				CONSTRUC	TION CODE
CODE			TOTAL	JEFFERSON TRAFFIC SIGNS 0021	WILLIAMSON TRAFFIC SIGN 0021
NO.	ITEM	UNIT	QUANTITY	RURAL	RURAL
81300540	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 4"	EACH	2	1	1
81400100	HANDHOLE	EACH	14	8	6
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	2400	1800	600
81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	900	450	450
81702160	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0	FOOT	1050		1050
81702180	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 3/0	FOOT	3300	3300	
82700100	TRANSFORMER, GENERAL PURPOSE	EACH	2	2	
83062710	LIGHT POLE, WEATHERING STEEL, 35 FT, M.H., TENON MOUNT	EACH	2	1	1
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FODT	11	5.5	5.5
83800650	BREAKAWAY DEVICE. COUPLING WITH STAINLESS STEEL SCREEN	EACH	2	1	1
87800100	CONCRETE FOUNDATION, TYPE A	FODT	40	25	15
x0323388	TRAFFIC COUNTER	EACH	1	1	
X0324597	CLOSED CIRCUIT TELEVISION CABINET	EACH	2	1	1
X0325485	TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	2	1	1

						Civil Engineering Design
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				CONSTRUC	TION CODE
				JEFFERSON TRAFFIC SIGNS	<u> </u>
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0021 RURAL	0021 RURAL
X0325922	CELLULAR MODEM	EACH	2	1	1
X0327216	CLOSED CIRCUIT TELEVISION CAMERA	EACH	2	1	1
X8040305	ELECTRICAL SERVICE CONNECTION	L SUM	1	0.5	0.5
x8570100	DISCONNECT SWITCH	EACH	8	5	3
X1400101	NETWORK CONFIGURATION	L SUM	1	0.5	0.5
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	470	235	235
Z0005216	HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL	SQ YD	448	291	157
Z0058668	GRADING AND SHAPING FORESLOPES	SO YD	3217	2343	874
X1400i03	ROAD WEATHER INFORMATION SYSTEM, COMPLETE	L SUM		1	
X7010410	SPEED DISPLAY TRAILER	CAL MO	1	0.5	0.5
SPECIALTY					

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SEEDING								
				NITROGEN	PHOSPHORUS	POTASSIUM		
			SEEDING	FERTILIZER	FERTILIZER	FERTILIZER	MULCH	
			CLASS 2A	NUTRIENT	NUTRIENT	NUTRIENT	METHOD 2	
STATION	STATION	SIDE	(ACRE)	(POUND)	(POUND)	(POUND)	(ACRE)	
JEFFERSON CO.								
432+00.00	433+00.00	MEDIAN	0.43	39	39	39	0.43	
432+00.00	435+25.00	RT	0.32	29	29	29	0.32	
SUBTO	TAL (JEFFE	RSON CO)=	0.75	68	68	68	0.75	
WILLIAMSON CO.								
290+00.00	295+00.00	MEDIAN	0.50	45	45	45	0.50	
SUBTOT	AL (WILLIA	MSON CO)=	0.50	45	45	45	0.50	
		TOTALS=	1.25	113	113	113	1.25	

INLET AND PIPE PROTECTION						
		INLET &				
		PIPE				
		PROTECTION				
STATION	SIDE	(EACH)				
JEFFERSON CO.		•				
435+01	MEDIAN	1				
SUBTOTAL (JEFFE	RSON CO) =	1				
WILLIAMSON CO.						
294+31	MEDIAN	1				
SUBTOTAL (WILLIA	MSON CO) =	1				
	TOTAL =	1				

GUARDRAIL	SCHEDULE							
			STEEL PLATE		TRAFFIC			HMA
			BEAM		BARRIER			STABILIZATION
			GUARDRAIL,		TERMINAL,	TRAFFIC	TERMINAL	6" AT STEEL
			TYPE A,	GUARDRAIL	TYPE 1	BARRIER	MARKER	PLATE
			6 FOOT	MARKERS,	(SPECIAL)	TERMINAL	DIRECT	BEAM
			POSTS	TYPE A	TANGENT	TYPE 2	APPLIED	GUARDRAIL
STATION	STATION	SIDE	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(SQ YD)
JEFFERSON	СО.							
432+44.00	434+93.99	LT	187.5	4	1	1	1	89
432+85.41	435+72.90	LT	225	4	1	1	1	101
429+27.07	432+14.57	RT	225	4	1	1	1	101
SUBTO	TAL (JEFFE	RSON CO)=	637.5	12	3	3	3	291
WILLIAMSO	N CO.							
292+59.81	294+72.30	LT	150	4	1	1	1	76
290+22.75	292+47.74	RT	162.5	4	1	1	1	81
SUBTOT	AL (WILLIAM	MSON CO) =	312.5	8	2	2	2	157
		TOTALS=	950	20	5	5	5	448

LIGHT POLE SCHEDULE							
		LIGHT POLE,	LIGHT POLE	BREAKAWAY DEVICE,			
		WEATHERING	FOUNDATION,	COUPLING WITH			
		STEEL,	24" DIAMETER	STAINLESS			
		35 FT. M.H.,		STEEL SCREEN			
		TENON MOUNT					
STATION	OFFSET	(EACH)	(FOOT)	(EACH)			
JEFFERSON CO.							
434+50.00	88.00′ LT.	1	5.5	1			
SUBTOTAL (J	EFFERSON CO) =	1	5.5	1			
WILLIAMSON CO							
294+50.00	96.00′ LT.	1	5.5	1			
SUBTOTAL (WI	LLIAMSON CO) =	1	5.5	1			
		2	11.0	2			

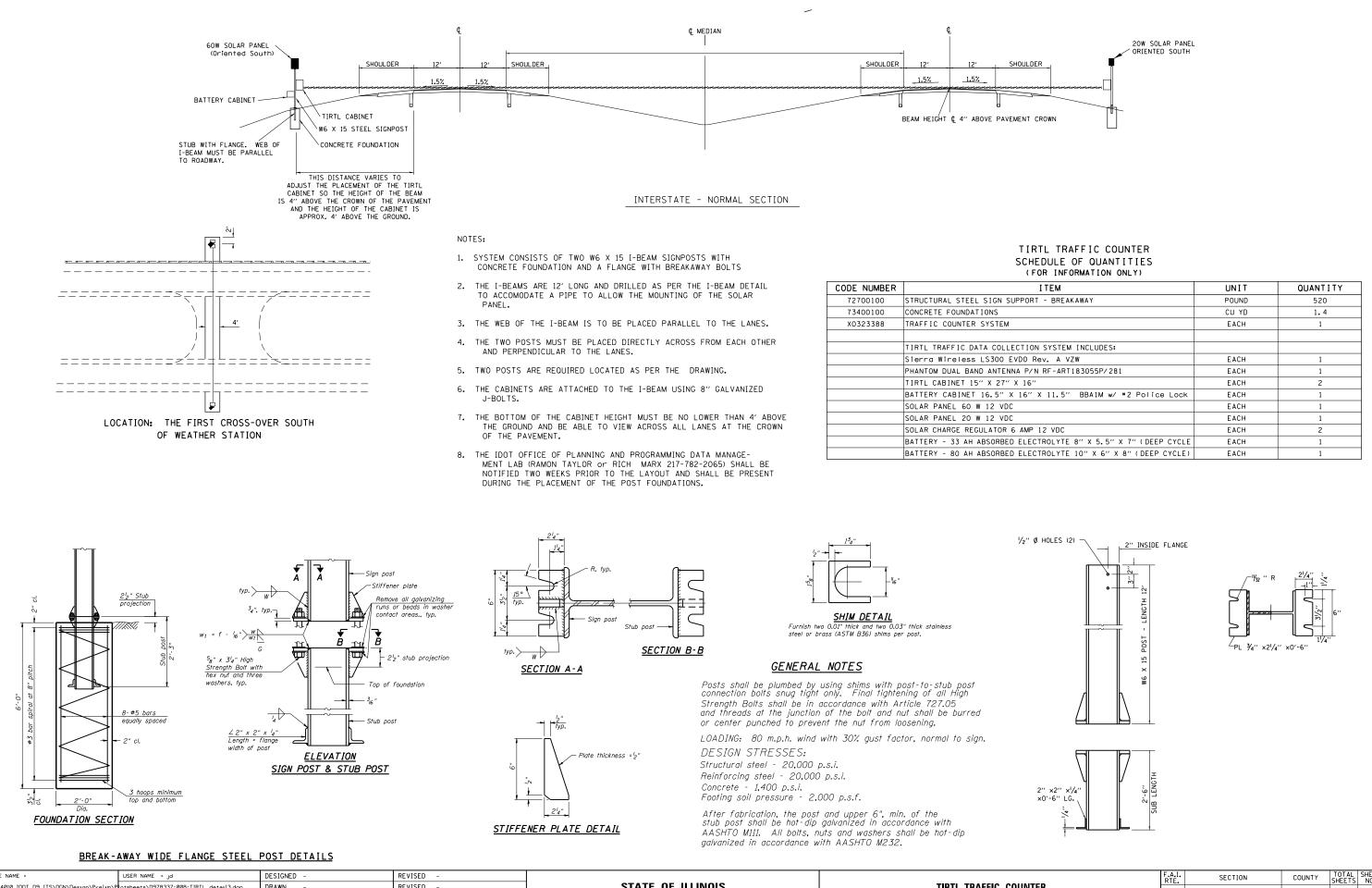
GRADING AND S	SHAPING FORESL	OPES	
STATION	STATION	SIDE	
JEFFERSON CO.			
432+00.00	435+25.00	LT	
429+00.00	432+50.00	MEDIAN / RT	
432+50.00	436+00.00	MEDIAN / LT	
	SUBTOTAL (J	EFFERSON CO)=	
WILLIAMSON CO	).		
290+00.00	295+00.00	MEDIAN / LT	
290+00.00	295+00.00	MEDIAN / RT	
	SUBTOTAL (WI	LLIAMSON CO)=	
		TOTALS=	

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	PLOT SCALE = 100.0000 ' / in.	CHECKED - SLD	REVISED -	DEPARTMENT OF TRANSPORTATION			CONTRACT NO. 78337
	PLOT DATE = 3/16/2015	DATE - 3/13/15	REVISED -		SCALE: N.A.	SHEET 1 OF 1 SHEETS	ILLINOIS FED. AID PROJECT

PERIMETER EROSION BARRIER						
			PERIMETER			
			EROSION			
			BARRIER			
STATION	STATION	SIDE	(FOOT)			
JEFFERSON	CO.					
432+00.00	435+25.00	LT	364			
SUBTO	364					
	364					

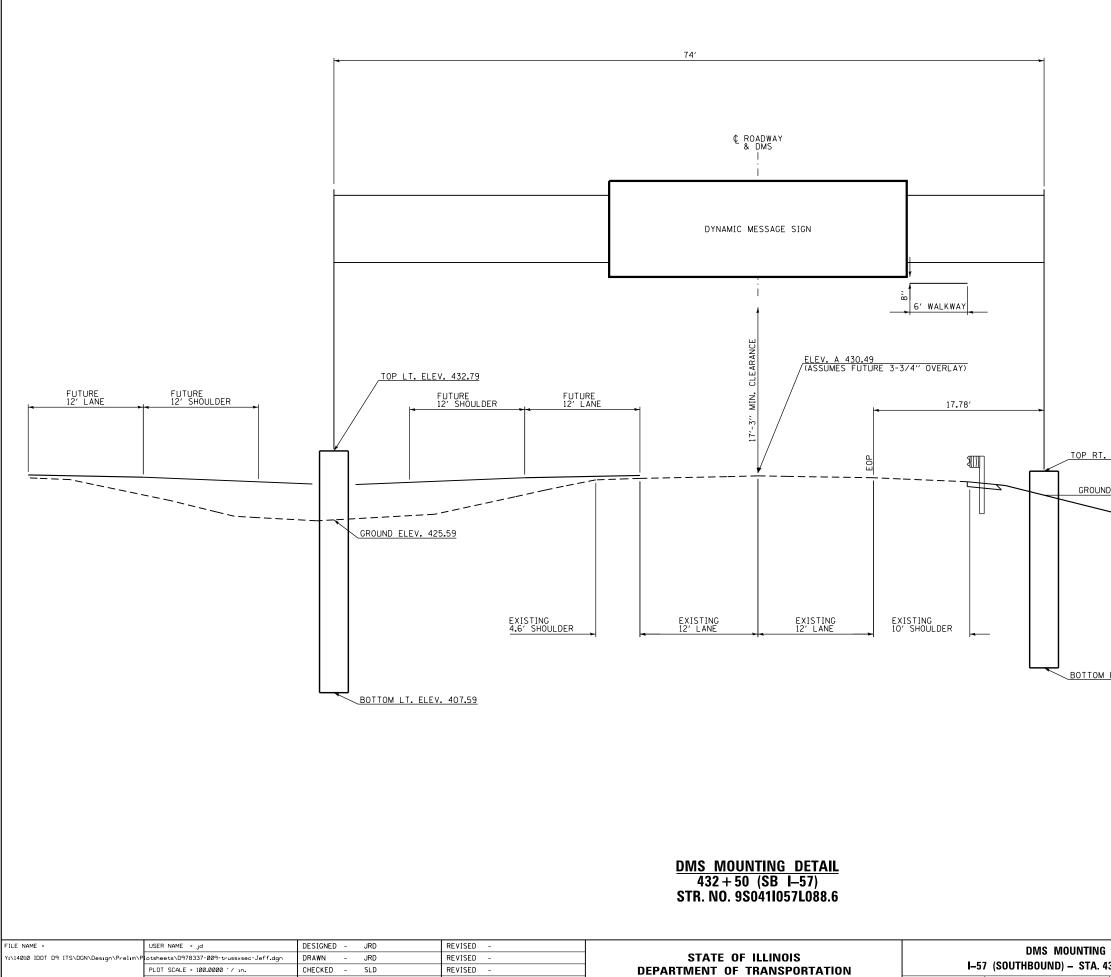
RADING
AND
HAPING
RESLOPES
SQ YD)
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473
548
2,343
390
484
874
3,217

# EFK • Moen, LLC Civil Engineering Design



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	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		CONT	TRACT NO. 78337
\$MODELNAME\$	PLOT DATE = 3/16/2015	DATE - 3/13/15	REVISED -		SCALE: N.A. SHEET 1 OF 1 SHEETS	ILLINOIS FED. AID PROJEC	

ITEM	UNIT	QUANTITY
SUPPORT - BREAKAWAY	POUND	520
	CU YD	1.4
M	EACH	1
LLECTION SYSTEM INCLUDES:		
EVDO Rev. A VZW	EACH	1
ENNA P/N RF-ART183055P/281	EACH	1
7" X 16"	EACH	2
X 16" X 11.5" BBA1M w/ #2 Police Lock	EACH	1
DC	EACH	1
DC	EACH	1
R 6 AMP 12 VDC	EACH	2
BED ELECTROLYTE 8" X 5.5" X 7" (DEEP CYCLE	EACH	1
BED ELECTROLYTE 10" X 6" X 8" (DEEP CYCLE)	EACH	1



PLOT DATE = 3/16/2015

DATE - 3/13/15

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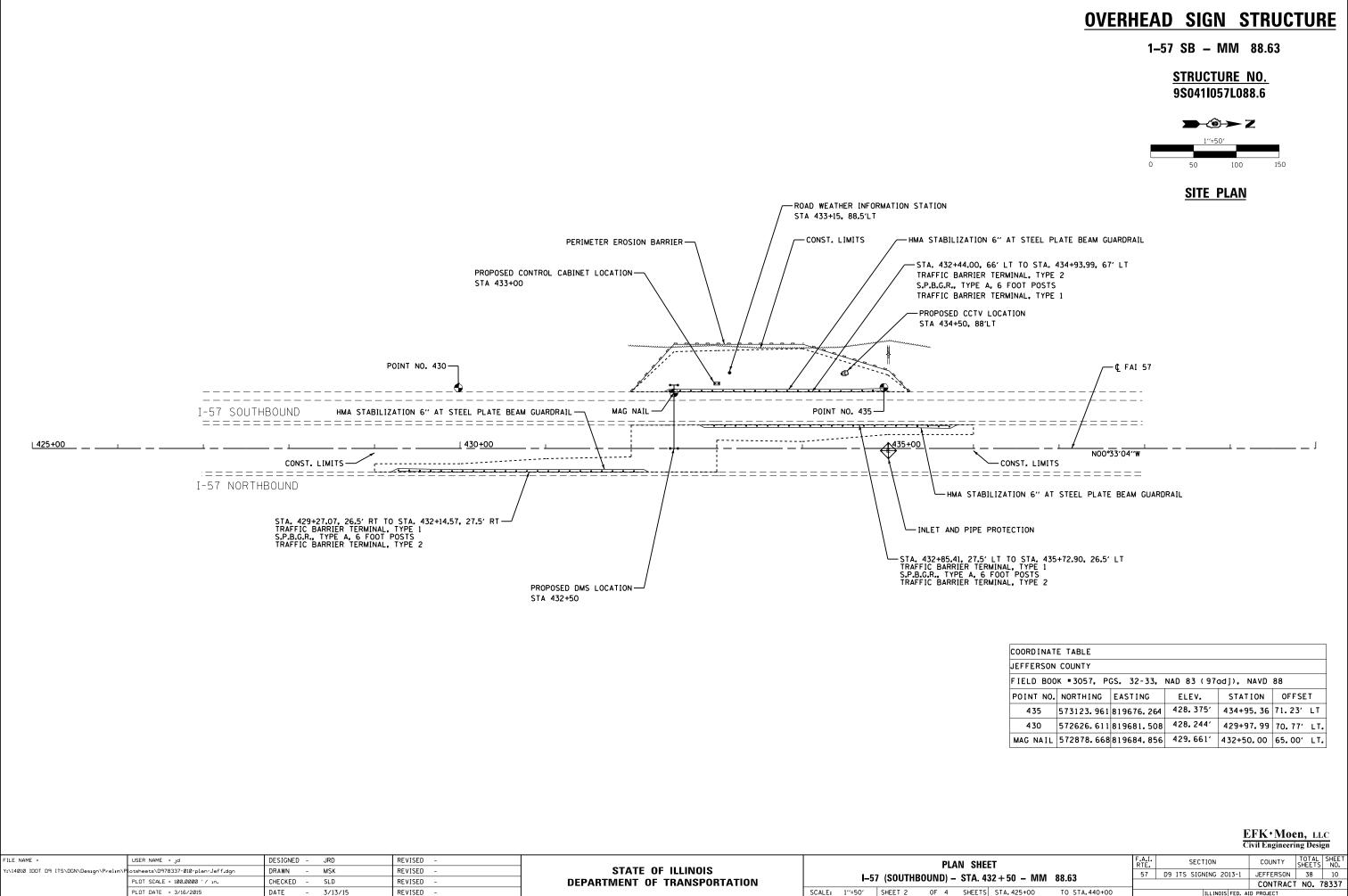
TOP RT. ELEV. 430.67

GROUND ELEV. 428.17

BOTTOM RT. ELEV. 410.17

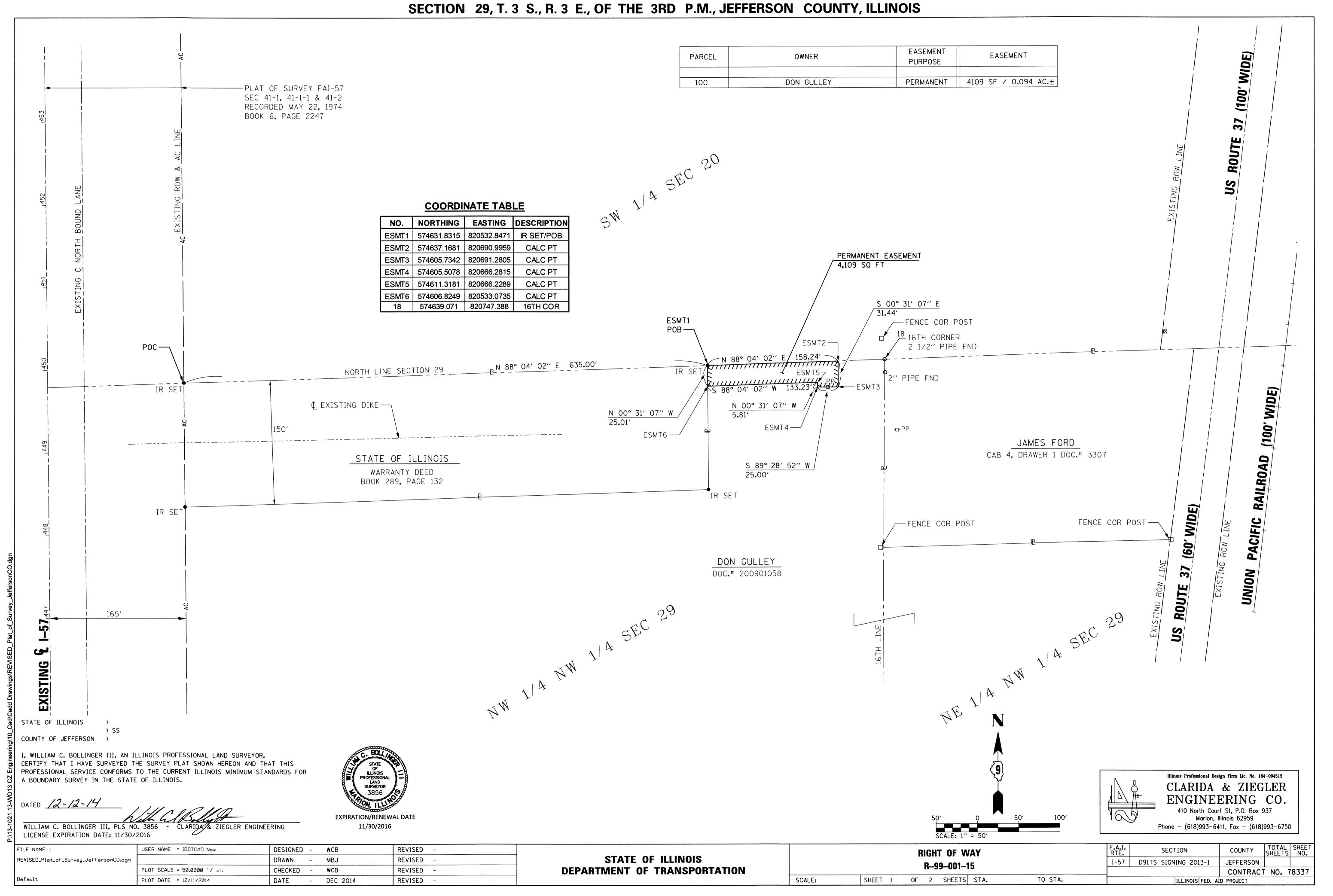
# EFK • Moen, LLC Civil Engineering Design

DMS MOUNTING DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I–57 (SOUTHBOUND) – STA. 432 + 50 – MM 88.63	57	D9 ITS SIGNING 2013-1	JEFFERSON	38	9
1-37 (300111000110) - 31A. 432 + 30 - 10101 80.03			CONTRACT	NO. 7	8337
SCALE: N.T.S. SHEET 1 OF 4 SHEETS	ILLINOIS FED. AID PROJECT				



COORDINAT	COORDINATE TABLE						
JEFFERSON	COUNTY						
FIELD BOO	K #3057, P(	GS. 32-33,	NAD 83 (970	odj), NAVD	88		
POINT NO. NORTHING EAST		EASTING	ELEV.	STATION	OFFSE	Т	
435	573123.961	819676.264	428.375′	434+95.36	71.23′	LT	
430	572626.611	819681.508	428.244′	429+97.99	70 <b>.</b> 77'	LT.	
MAG NAIL	572878.668	819684.856	429.661′	432+50.00	65 <b>.</b> 00′	LT.	

				C	ivil Engineeri	ng Desig	gn
IEET		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Δ?	432 + 50 - MM 88.63		57	D9 ITS SIGNING 2013-1	JEFFERSON	38	10
432 + 50 - 10101 88.03			_		CONTRACT	NO. 7	8337
TS	STA. 425+00	TO STA.440+00	ILLINOIS FED. AID PROJECT				



PARCEL	OWNER	EA
	OWNER	PU
100	DON GULLEY	PFR

**KEY NOTES** (1) UNDERGROUND CONDUIT, PVC, 2" DIA. (81028350) (3) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 3/0 (81702180) (ALUMINUM) (1) UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. (81028200)
(3) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2 (81702150)
(1) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6 (81702130) (1) UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. (81028200)
(1) MULTIMODE FIBER OPTIC CABLE (PROVIDED BY DMS MANUFACTURER) (D) (1) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/4" DIA. (81028730) (1) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/4" DIA. (81028730) (1) UNDERGROUND CONDUCT, COLLADEL (NORMELOCE)
(1) OUTDOOR RATED NETWORK CABLE (XX008392) (1) UNDERGROUND CONDUIT, PVC, 4" DIA. (81028390) [EXTENDED AT LEAST 2' BEYOND ROADWAY EDGE]
(3) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 ¼" DIA. (81028730)
(2) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 3/0 (81702180) (ALUMINUM)
(1) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6 (81702130) [GROUND] (ALUMINUM) -ELECTRICAL SERVICE INSTALLATION (80400100) TRANSFORMER, GENERAL PURPOSE (82700100) DISCONNECT SWITCH (X8570100)-MOUNTED ON 'H' FRAME NEAR TRANSFORMER (480V-60A) - DISCONNECT SWITCH (X8570100) (MOUNTED ON PROPOSED ITS CABINET) (240V-100A) PROPOSED ITS CABINET INCLUDED -AS PART OF PAY ITEM (X0325485) (301) (30') (C (30') (B) -(E)(10') JUNCTION BOX, STAINLESS STEEL ATTACHED TO STRUCTURE, 12"X12"X4" (81300540) 0-\_\_\_\_\_DISCONNECT\_SWITCH\_(X8570100)-\_\_\_\_\_\_(240V-40A) -E (130') I-57 SOUTHBO TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN (X0325485) 0 435+00 430+00 \_\_\_\_ \_\_\_\_ -(D)(150') -57 NORTHBO (150') (F (500') (A) SPACE BETWEEN POWER HANDHOLES SHALL BE NO MORE THAN 500' FOR POWER CABLING (TYP.) (500')(A)-\_\_\_\_\_(D)(1430') (500') (A) DISCONNECT SWITCH (X8570100) (480V-60A) - HANDHOLE (81400100) (TYP. OF 8) -EXISTING POWERPOLE PROPOSED ELECTRIC METER (POLE MOUNTED) DISCONNECT SWITCH (X8570100) (480V-60A) - ELECTRICAL SERVICE CONNECTION (X8040305) SERVICE INSTALLATION, POLE MOUNTED (80500020) WITH WEATHERHEAD ELECTRICAL SERVICE CONNECTION (X8040305)

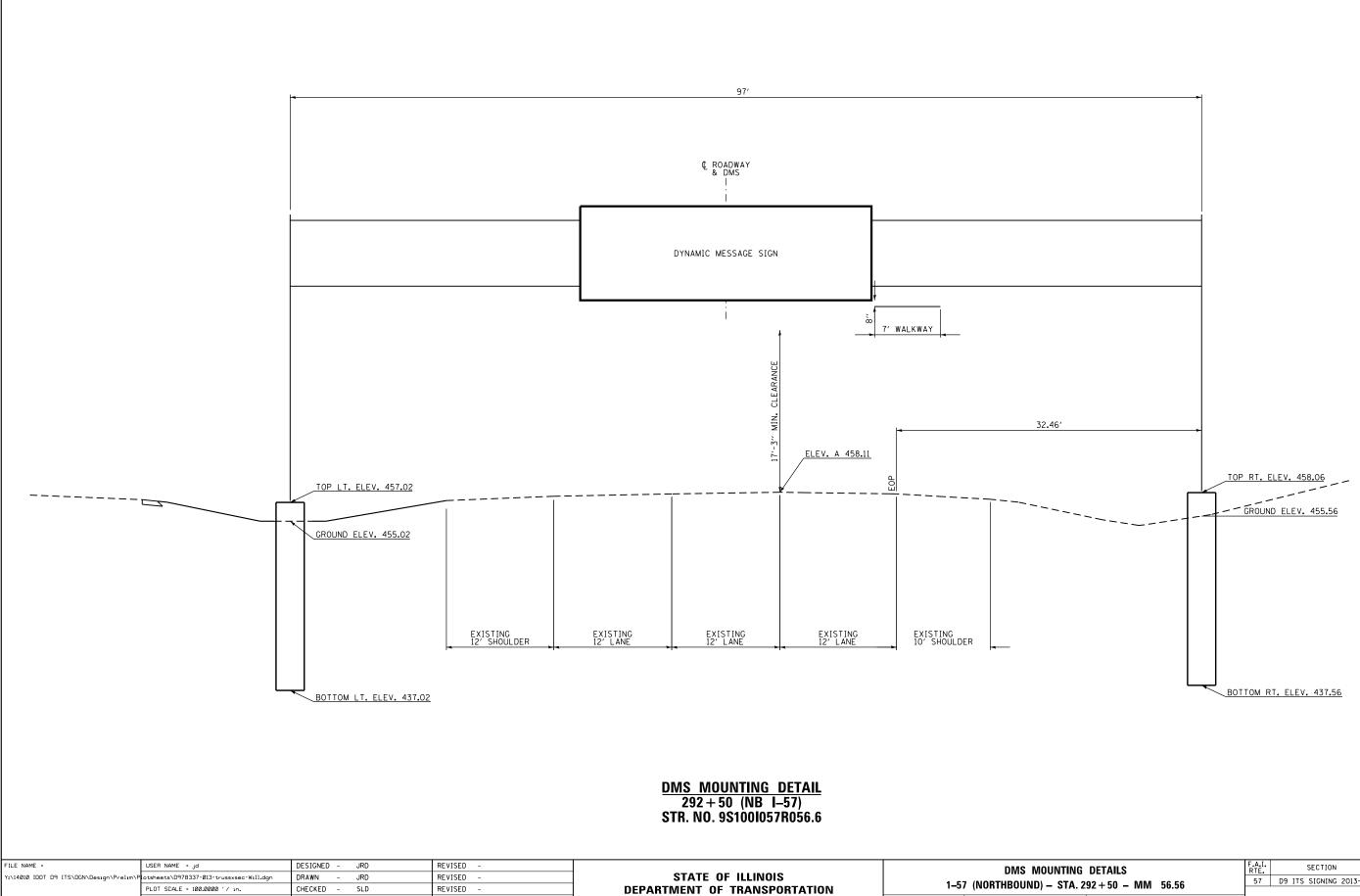
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ITS Jeff County Plan.dgn		DRAWN DTL	REVISED -	STATE OF ILLINOIS			1-57 D9 ITS SIGNING 2013-	L JEFFERSON/ 38 12
	PLOT SCALE = 80.0091 ' / in.	CHECKED KLG	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 78337
	PLOT DATE = 3/16/2015	DATE 03-16-15	REVISED -		SCALE: N.A.	SCALE: N.A. SHEET 4 OF 4 SHEETS STA. TO STA.		AID PROJECT



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- PROPOSED CCTV POLE CLOSED CIRCUIT TELEVISION CAMERA (X0327216) CLOSED CIRCUIT TELEVISION CABINET (X0324597)

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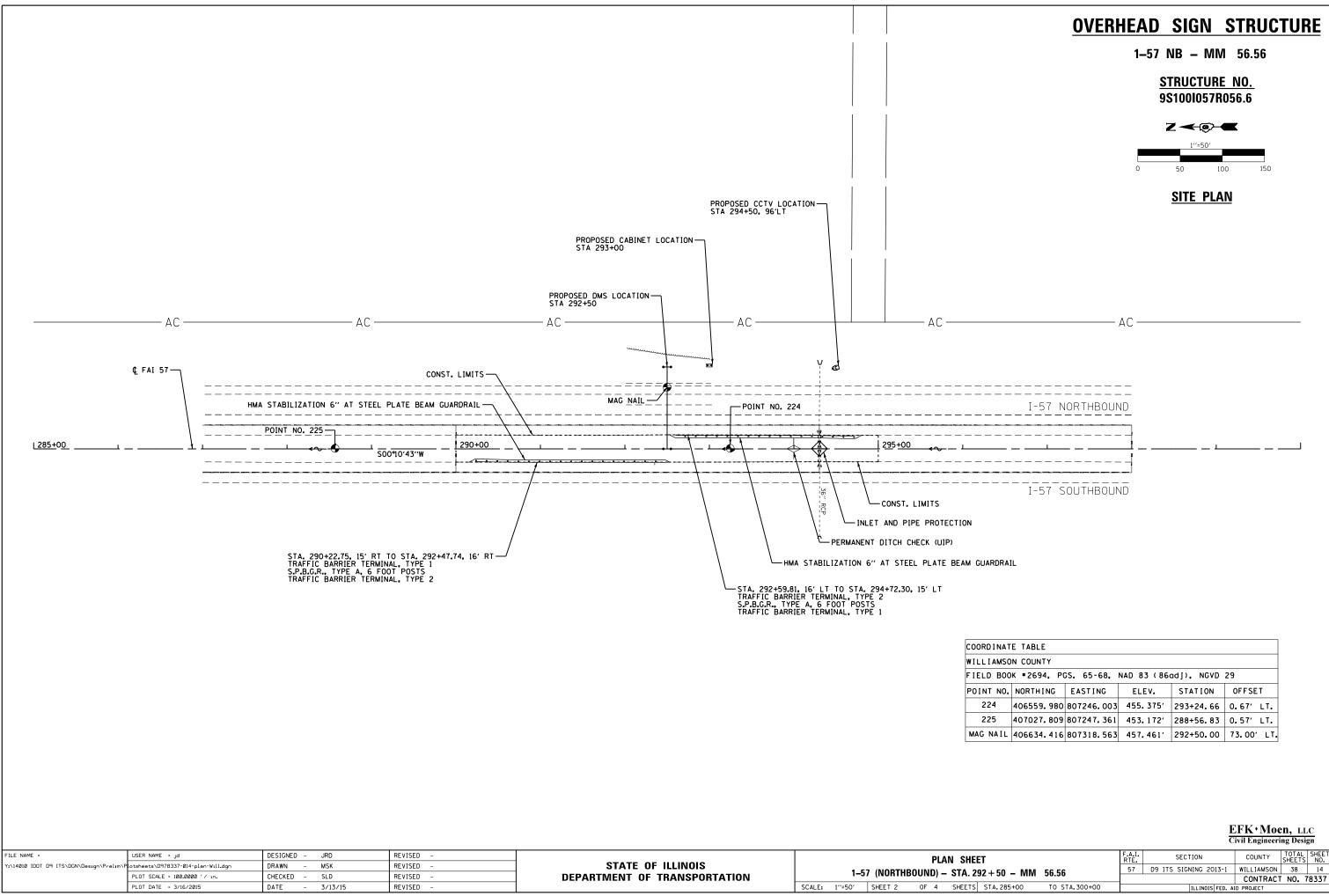
PLOT DATE = 3/16/2015

DATE - 3/13/15

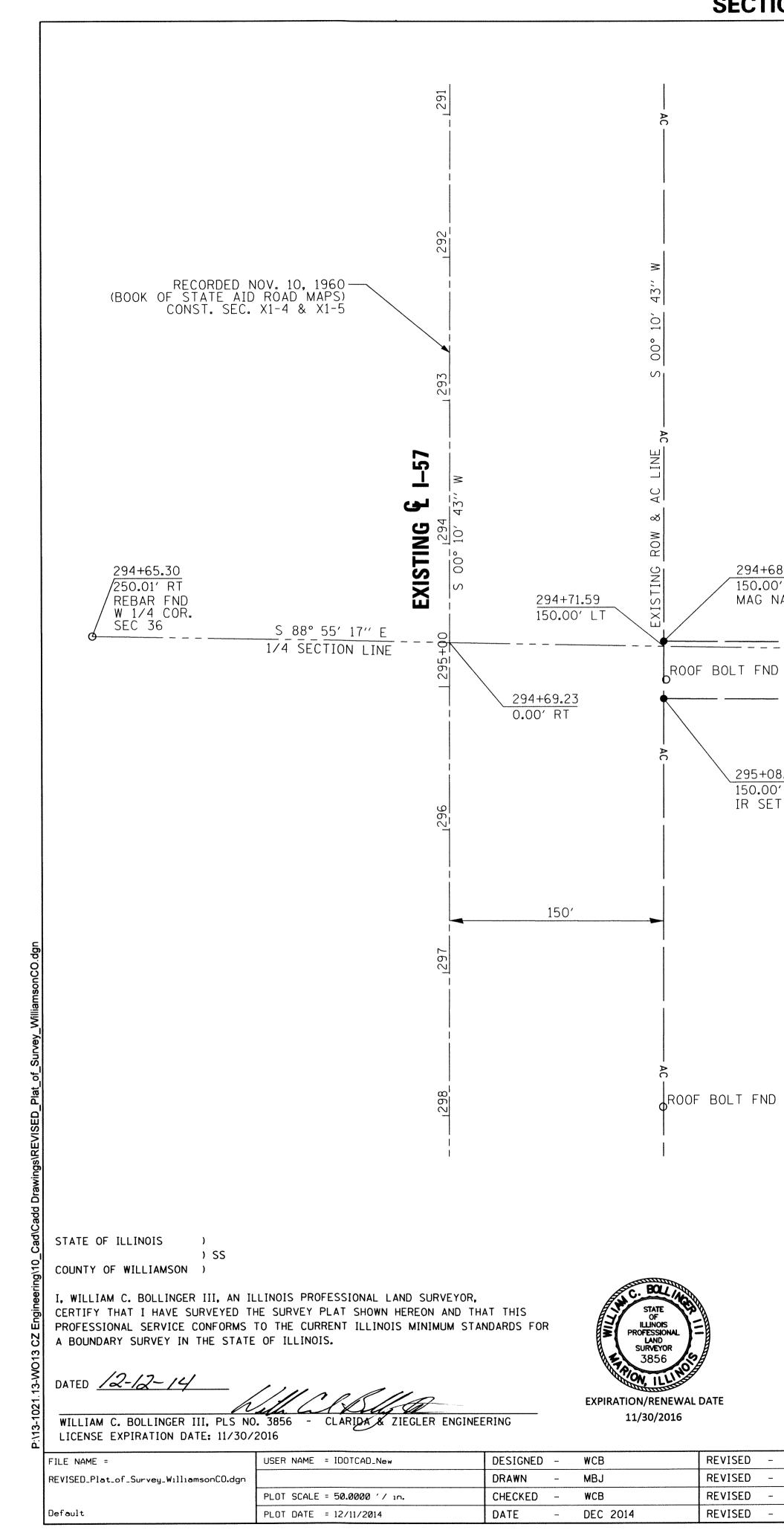
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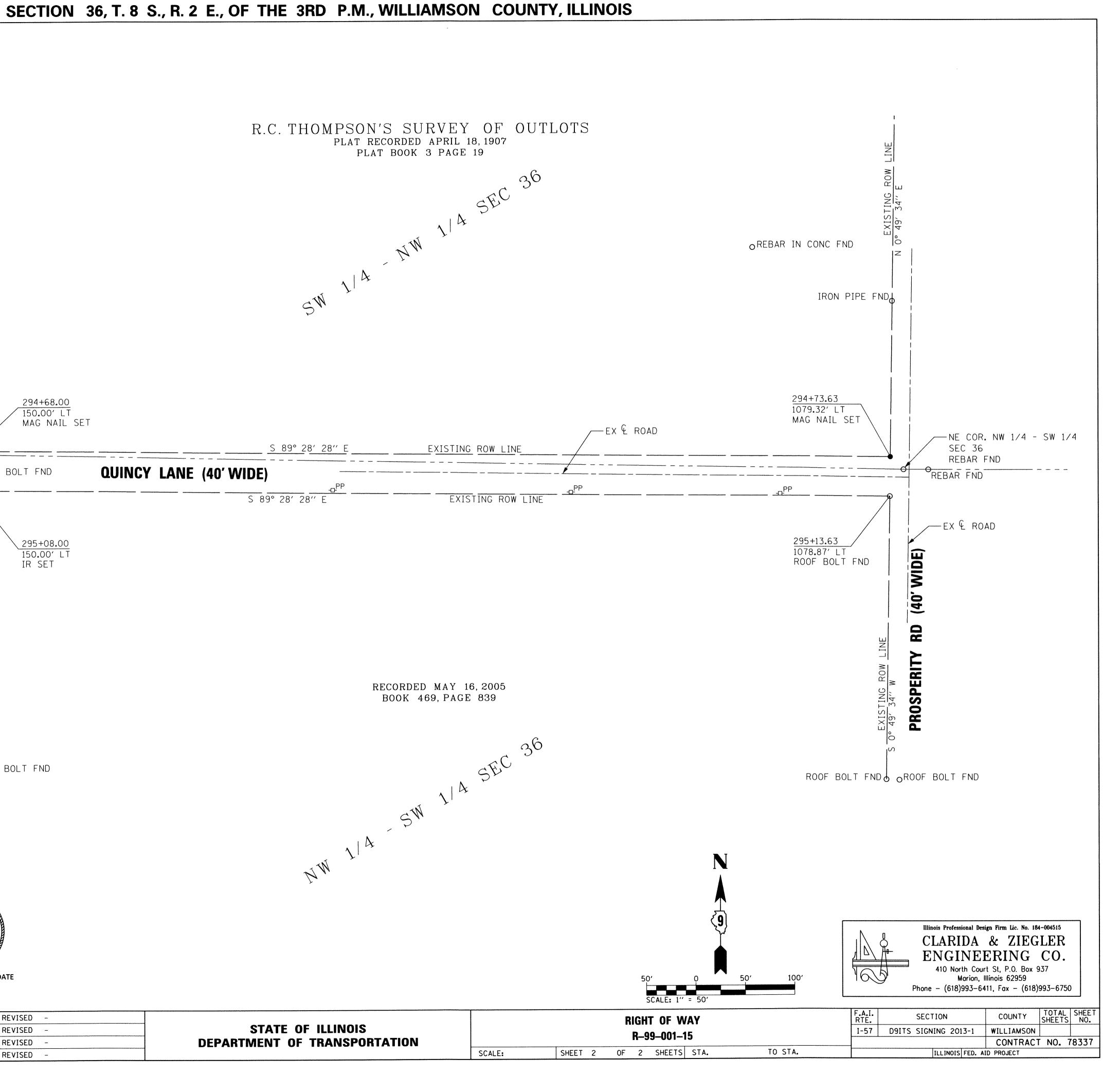
# EFK • Moen, LLC Civil Engineering Design

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DMS MOUNTING DETAILS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1–57 (NORTHBOUND) – STA. 292 + 50 – MM 56.56	57	D9 ITS SIGNING 2013-1	WILLIAMSON	38	13
1-37 (NOTTIDOOND) - 31A. 232 + 30 - 10101 30.30			CONTRACT	「 NO. 7	78337
SCALE: N.T.S. SHEET 1 OF 4 SHEETS	ILLINOIS FED. AID PROJECT				

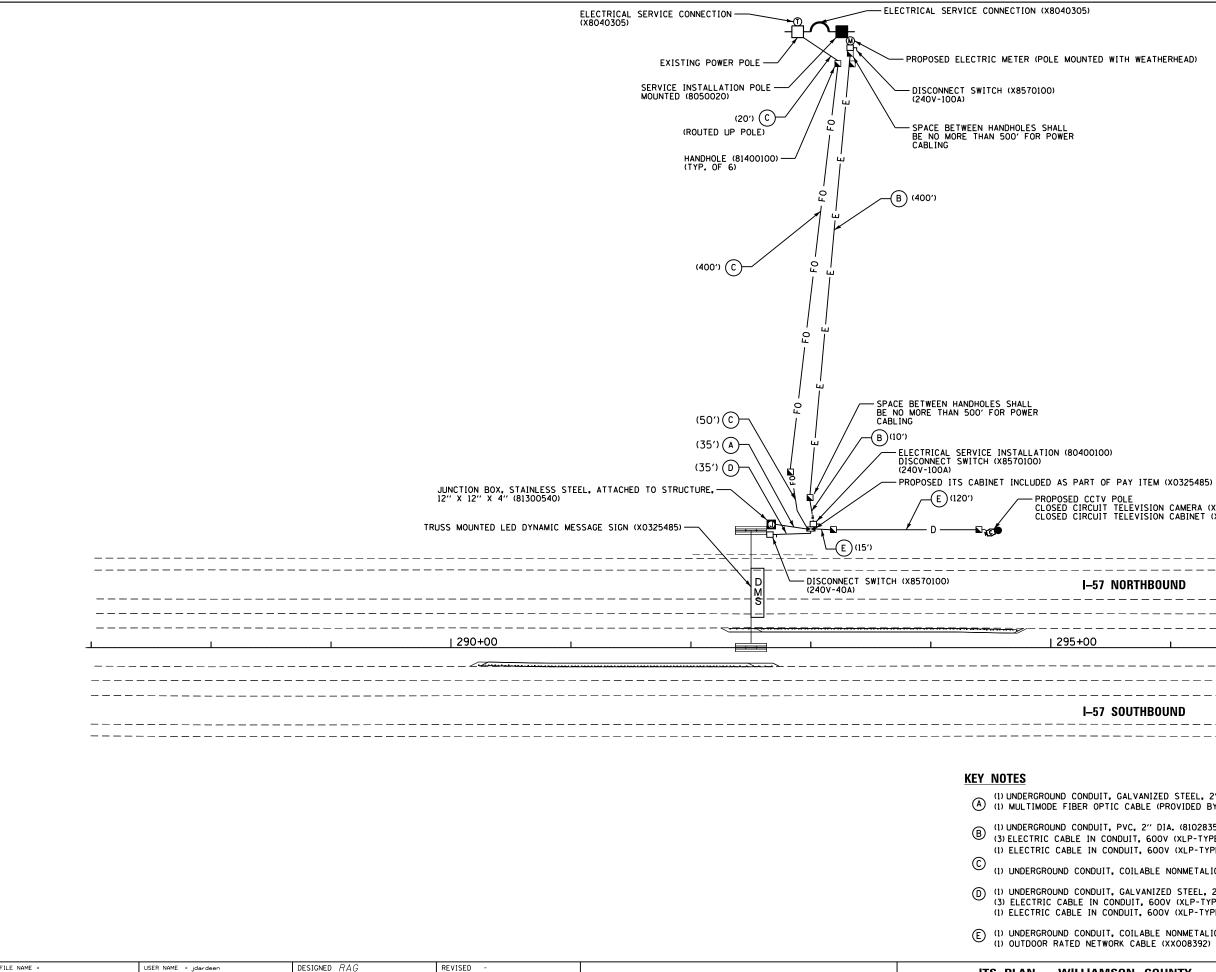


IEE	IEET 292 + 50 – MM 56.56		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20			57	D9 ITS SIGNING 2013-1	WILLIAMSON	38	14
2.	292 + 50 = 10101 50.50				CONTRACT	NO. 7	8337
rs	STA.285+00	TO STA.300+00	ILLINOIS FED. AID PROJECT				



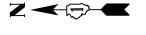


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6 Will County Plan.dgn		DRAWN DTL	REVISED -	STATE OF ILLINOIS		STA 292 + 50 M
	PLOT SCALE = 80.0095 ft / in.	CHECKED KLG	REVISED -	DEPARTMENT OF TRANSPORTATION		31A. 292 + 50 W
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WITH WEATHERHEAD)	
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- PROPOSED CCTV POLE CLOSED CIRCUIT TELEVISION CAMERA (X0327216) CLOSED CIRCUIT TELEVISION CABINET (X0324597)

I–57 NORTHBOUND I-57 SOUTHBOUND

(1) UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. (81028200) (1) MULTIMODE FIBER OPTIC CABLE (PROVIDED BY DMS MANUFACTURER)

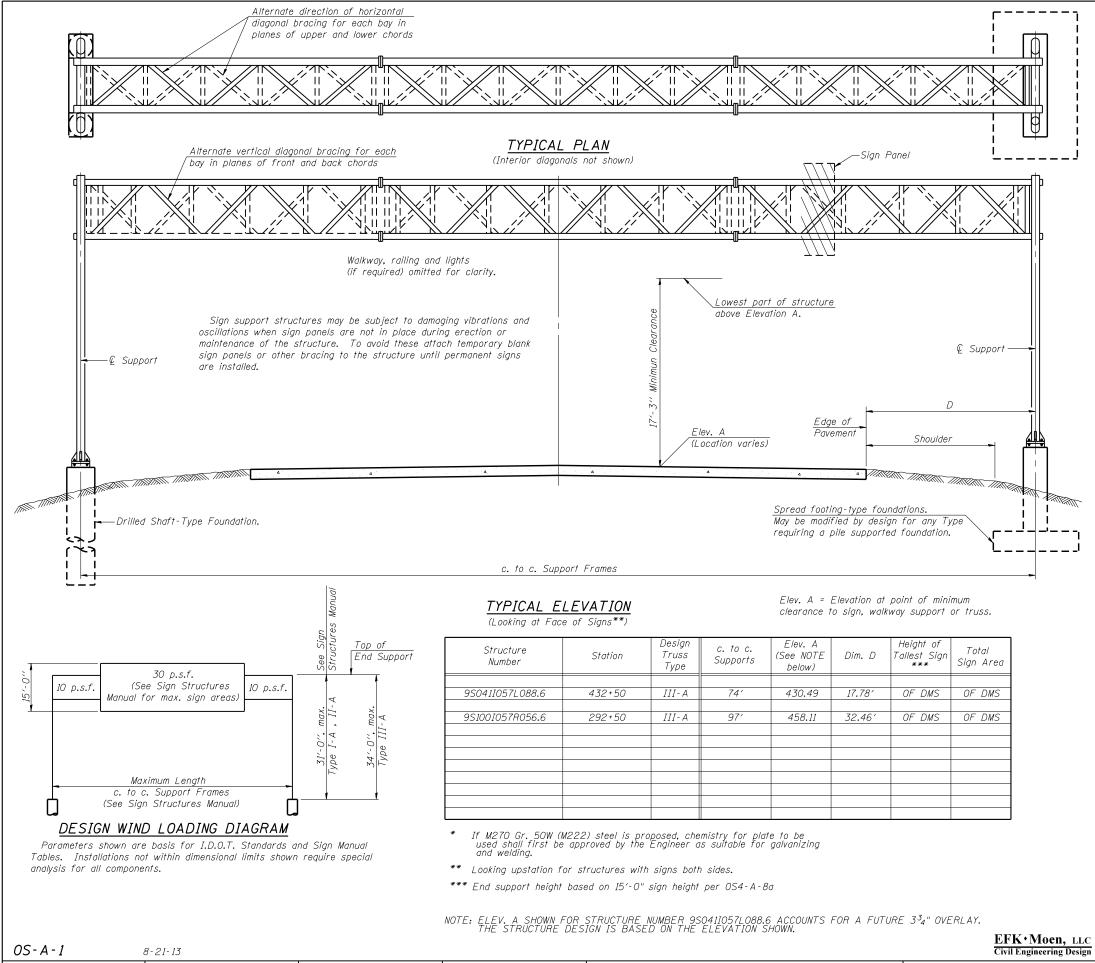
(1) UNDERGROUND CONDUIT, PVC, 2" DIA. (81028350)
(3) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. ½ (81702160)
(1) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO.6 (81702130) [GROUND]

(1) UNDERGROUND CONDUIT, COILABLE NONMETALIC CONDUIT,  $1^{1}_{4}$ " DIA. (81028730)

(1) UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. (81028200)
(3) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C N0.2 (81702150)
(1) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C N0.6 (81702130)

(i) UNDERGROUND CONDUIT, COILABLE NONMETALIC CONDUIT,  $1^{1}/_{4}$ " DIA. (81028730) (i) OUTDOOR RATED NETWORK CABLE (XX008392)

MSON C	OUNTY	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
1M 56.56	i	I-57	D9 ITS SIGNING 2013-1	JEFFERSON/ WILLIAMSON	38	16					
				CONTRAC	T NO. 7	8337					
S STA.	TO STA.		ILLINOIS FED. AID PROJECT								



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# 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'c = 3,500 p.s.i. fy = 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 Specificiations.

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 MI64 (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.

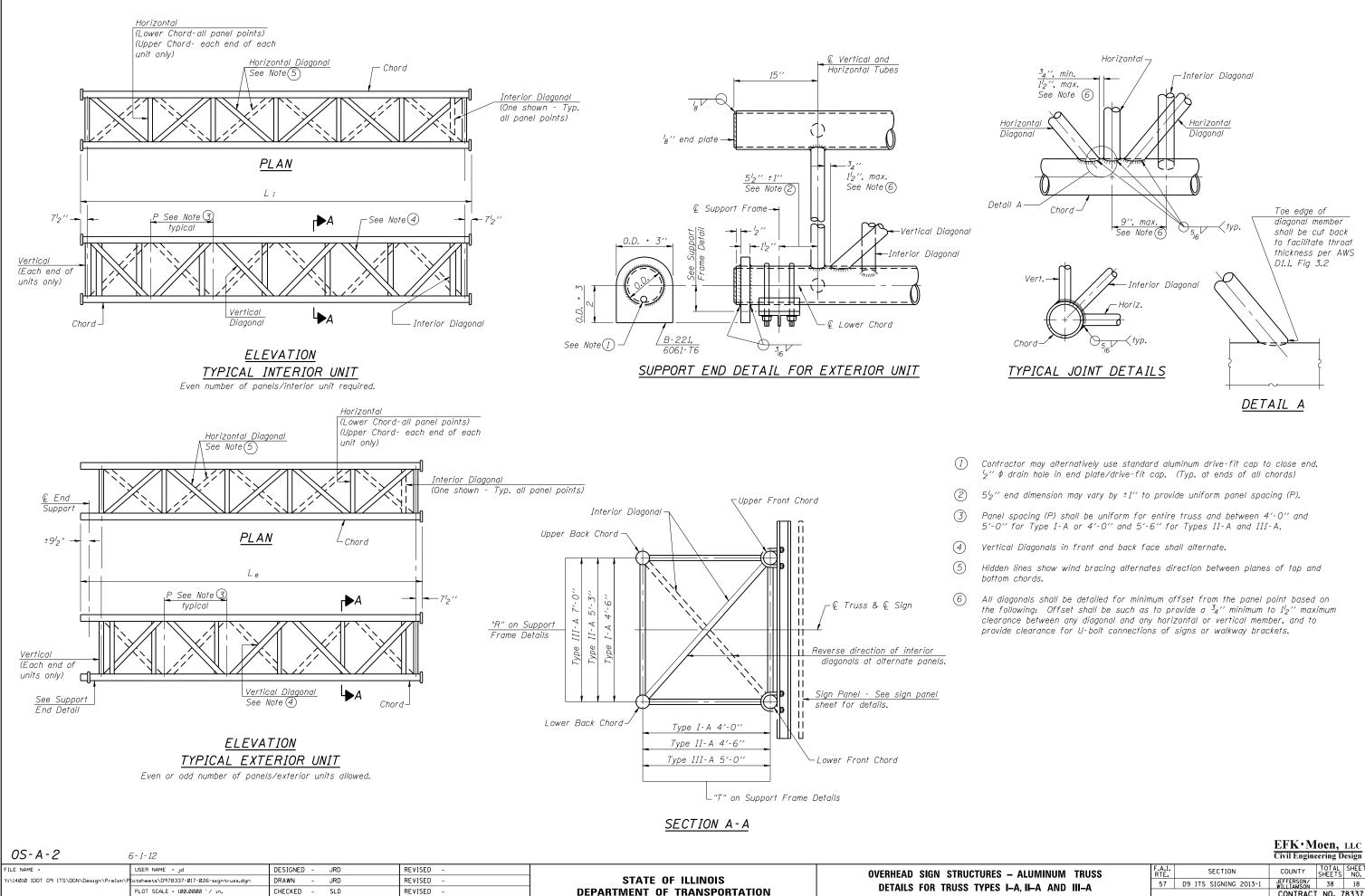
REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

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	171
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	13
CONCRETE FOUNDATIONS	Cu. Yds.	-
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	45.1

s	– GEN	IERAL PLAN &	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	2 8 22	TEEL SUPPORTS	57	D9 ITS SIGNING 2013-1	JEFFERSON/ WILLIAMSON	38	17
_			_		CONTRACT	NO. 7	8337
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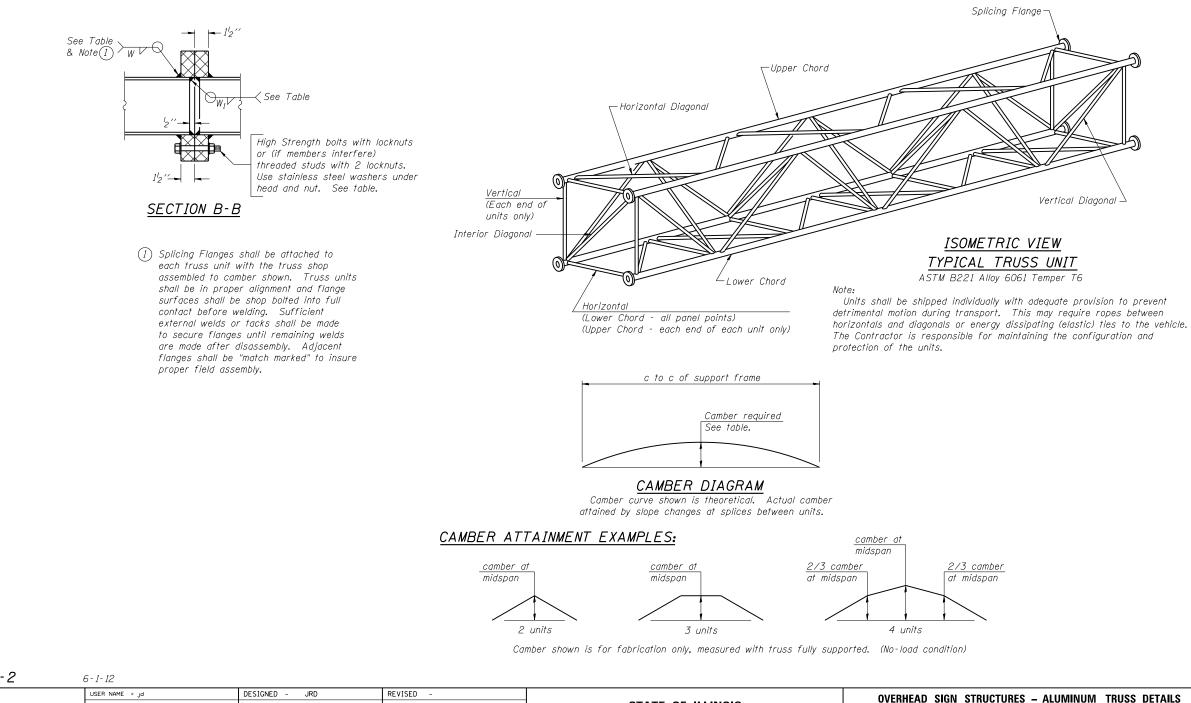
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SHEET 2 OF 10 SHEET

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
57	D9 ITS SIGNING 2013-1	JEFFERSON∕ WILLIAMSON	38	18				
_		CONTRACT	NO. 7	8337				
ILLINOIS FED. AID PROJECT								
	RTE.	RTE. SECTION 57 D9 ITS SIGNING 2013-1	RTE.     SECTION     COUNTY       57     D9 ITS SIGNING 2013-1     JEFFERSON/ WILLIAMSON	RTE.     SECTION     COUNTYN     SHEETS       57     D9     ITS     SIGNING     2013-1     JEFFERSON/ WILLIAMSON     38        CONTRACT     NO.     7				

							<u>T</u>	RUSS U	NIT T	A <u>BLE</u>										
Structure		Design Truss	Exte	rior Units	(2)		Interio	r Unit				Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at	er Splicing Flange					
Number	Station	Туре	No. Panels per Unit		Panel Lgth.(P)		No. Panels per Unit	Unit Lgth.(L; )	Panel Lgth.(P)	0.D.	Wall	0.D.	Wall	Midspan	Bolts No./Splice		Weld W	Sizes Wı	A	В
9S0411057L088.6	432+50	III-A	7	37'-9"	5'-1'2"	0	-	-	-	7"	<sup>5</sup> /6 "	3'4"	5 <sub>16</sub> "	1"	6	1"	7,6 "	5 <sub>16</sub> "	11 <sup>1</sup> 2"	15"
9S1001057R056.6	292+50	III-A	6	<u>33'-1'2'</u>	" 5′-2′ <u>2</u> "	1	6	32'-6"	5'-2'2"	7"	5. " 16 "	3'4"	5 <sub>16</sub> "	218"	6	1"	7,6 "	5 <sub>16</sub> "	11'2"	15'
																				<u> </u>

SCALE: N/A



STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

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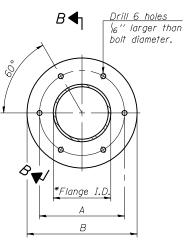
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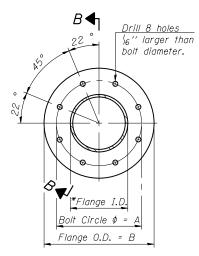
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FILE NAME =



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

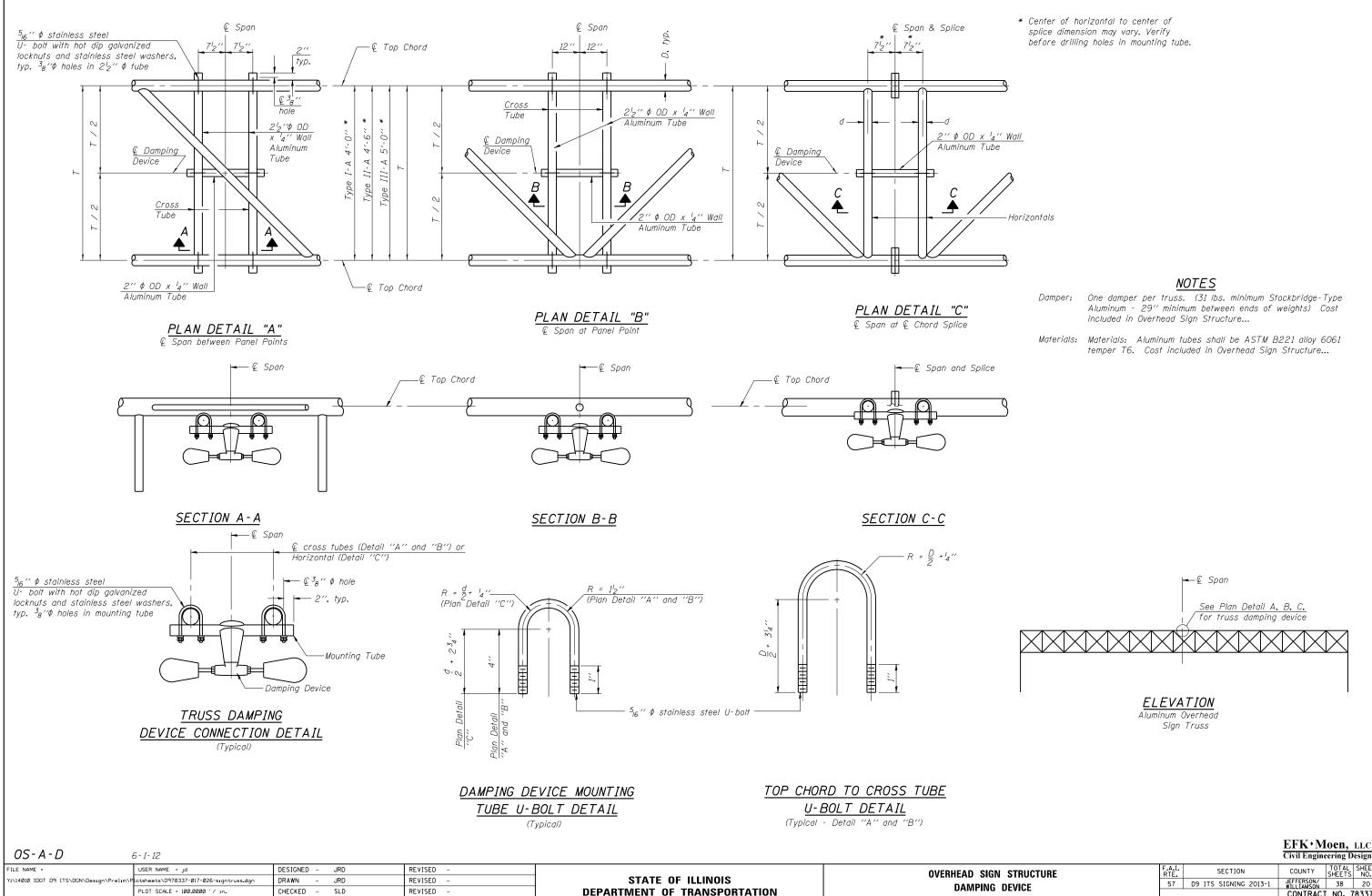


TRUSS TYPES II-A & III-A SPLICING FLANGES

ASTM B221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651 \*To fit O.D. of Chord with maximum gap of  $l_{6}$ ".

## EFK Moen, LLC Civil Engineering Design

۵n	SIGN	I STE	31101	TURF	·s _ Δι	UMINUM	TRUSS DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D SIGN STRUCTURES – ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I–A, II–A AND III–A								D9 ITS SIGNING 2013-1	JEFFERSON/ WILLIAMSON	38	19
	SHEET	3	0F	10	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	CONTRACT D PROJECT	NO. 7	78337



PLOT DATE = 3/16/2015

DATE - 3/13/15

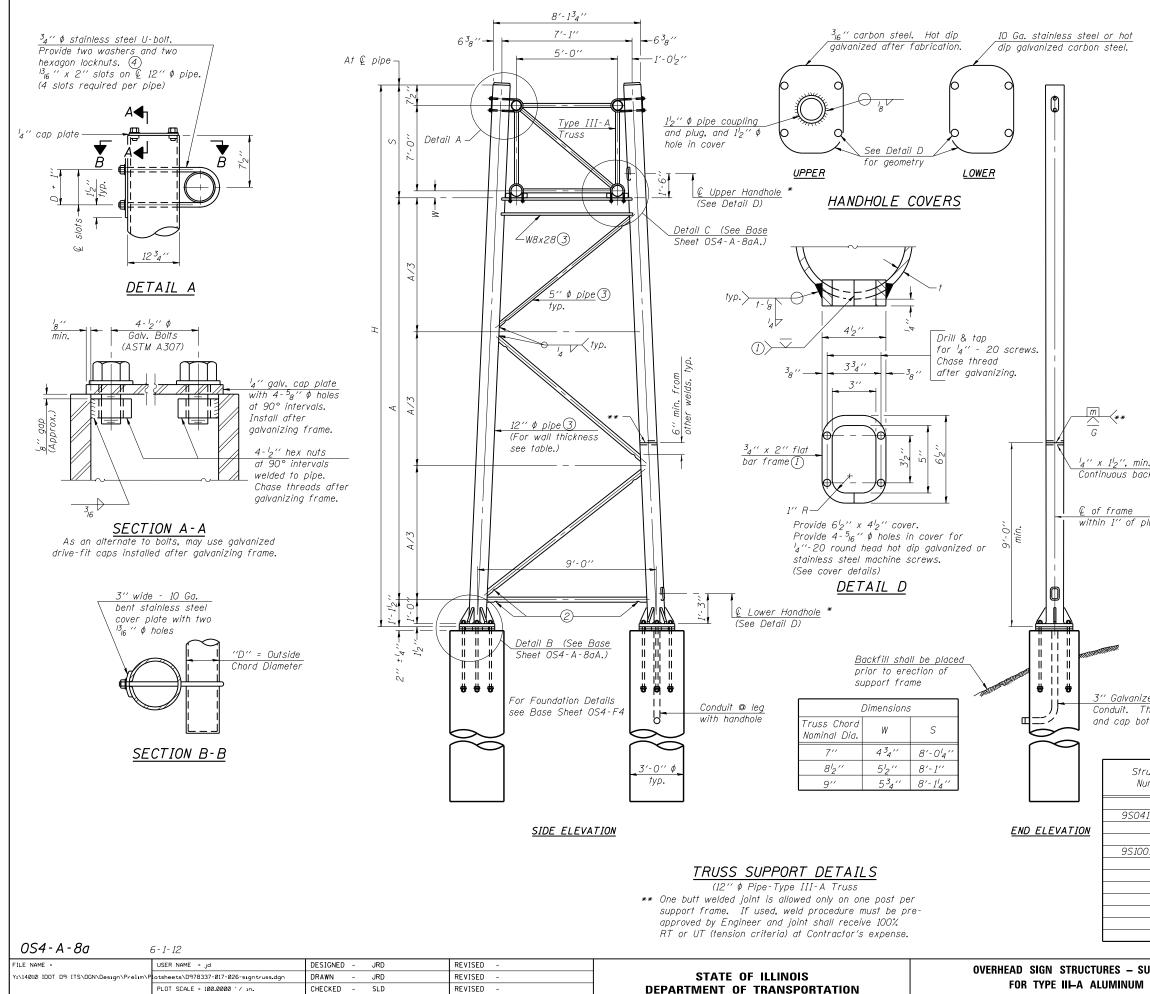
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SCALE: N/A

SHEET 4 OF 10 SHEET

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

	Civil Engineering D								
F.A.I. RTE.	SECTION		TOTAL SHEETS	SHEET NO.					
57	D9 ITS SIGNING 2013-1								
_		CONTRACT	NO. 7	8337					
ILLINOIS FED. AID PROJECT									
	RTE.	RTE. SECTION 57 D9 ITS SIGNING 2013-1	F.A.I. RTE.     SECTION     COUNTY       57     D9 ITS SIGNING 2013-1     JEFFERSON/ WILLIAMSON       CONTRACT	RTÉ.     SECTION     COUNTY     SHEETS       57     D9 ITS SIGNING 2013-1     JEFFERSON/ WILLIAMSON     38       CONTRACT NO.     CONTRACT NO.     7					



PLOT DATE = 3/16/2015

DATE

3/13/15

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REVISED

SCALE: N/A

SHEET 5 OF 10 SHEET

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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 min 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'-O'' or actual sign height, whichever is greater.
- \* For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

Continuous backing ring

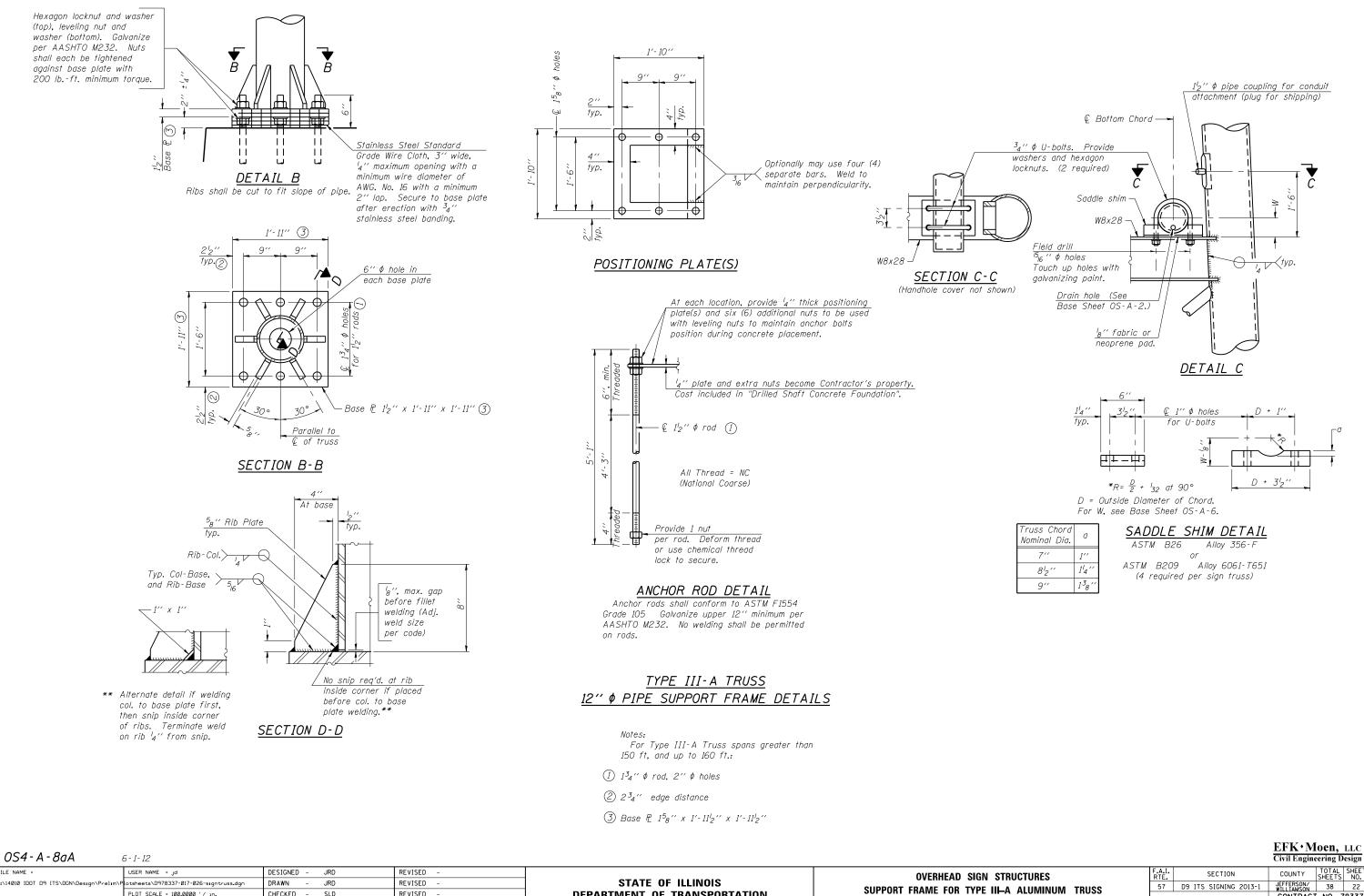
within 1" of plumb

3'' Galvanized Steel Conduit. Thread and cap both ends.

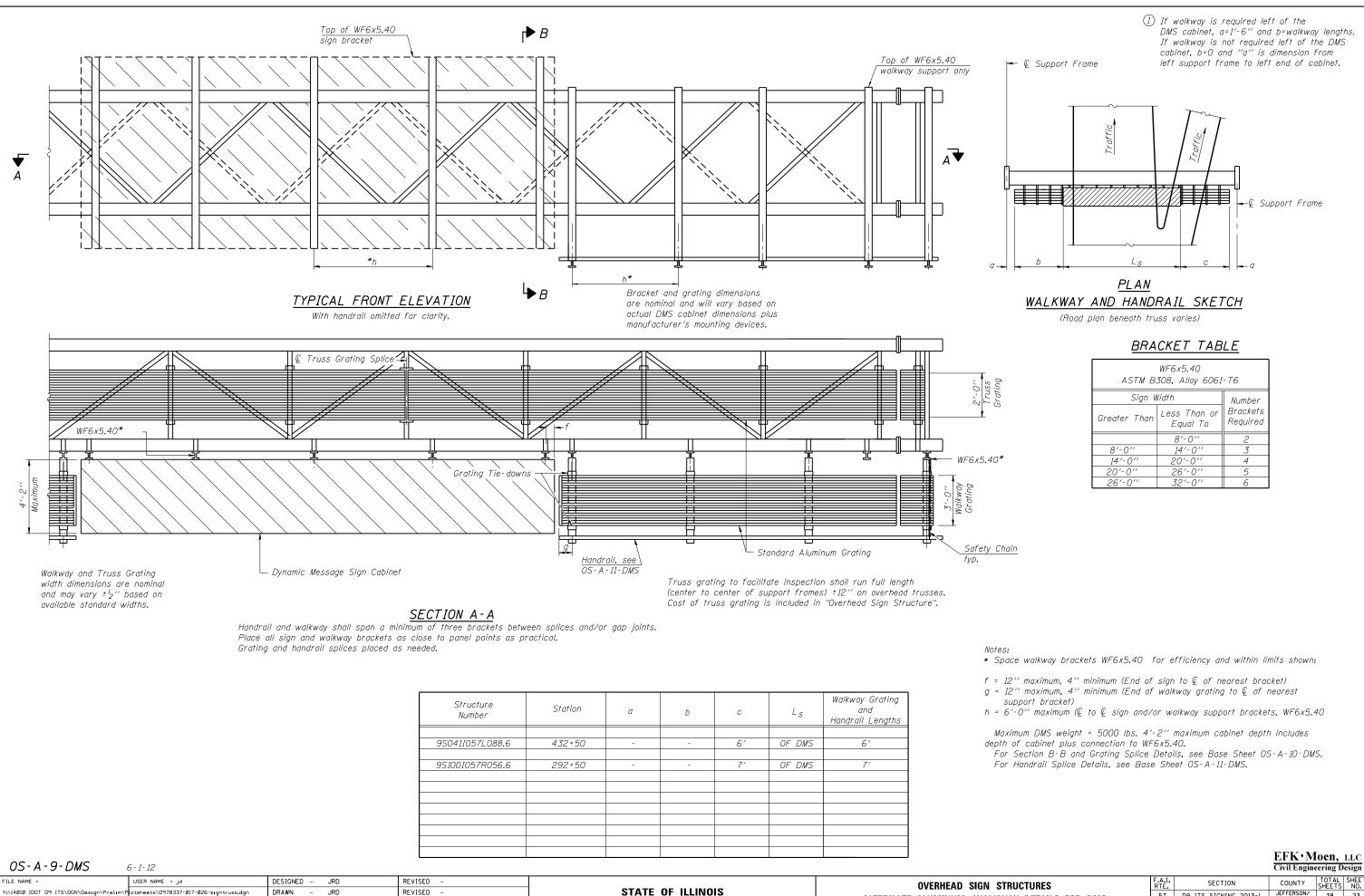
# EFK · Moen, LLC **Civil Engineering Design**

Structure	Station	Sup,	oort	Pipe Wall	Н	
Number	51011011	Left	Right	Thickness	6	A
9S0411057L088.6	432+50	X		0.33	27'-1"	17'-11'4"
			X	0.33	29′-2 <sup>3</sup> 8″	20′- <sup>5</sup> 8″
9S100I057R056.6	292+50	X		0.33	30′-5 <sup>5</sup> 8″	21'-378"
			X	0.33		20'-338"
					Ŭ	
ES – SUPPORT FRAME	F.,	A.I. IE.	SECTI	ON	COUNTY S	OTAL SHEET

S	5 – SU	PPORT FRAME	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
/INUM TRUSS				D9 ITS SIGNING 2013-1	JEFFERSON/ WILLIAMSON	38	21				
		11033			CONTRACT	NO. 7	8337				
5	STA.	TO STA.	ILLINOIS FED. AID PROJECT								



ſ	ILE NAME =	USER NAME = Jd	DESIGNED - JRD	REVISED -			OVERHEAD SIGN STRUCTURES	F.A.I. SECTION COUNTY SHEET NO
	:\14010 IDOT D9 ITS\DGN\Design\Prelim\P	lotsheets\D978337-017-026-signtruss.dgn	DRAWN - JRD	REVISED -	STATE OF ILLINOIS	0,000		57 D9 ITS SIGNING 2013-1 JEFFERSON 38 22
		PLOT SCALE = 100.0000 '/ in.	CHECKED - SLD	REVISED -	DEPARTMENT OF TRANSPORTATION	SUPP	PORT FRAME FOR TYPE III-A ALUMINUM TRUSS	CONTRACT NO. 78337
		PLOT DATE = 3/16/2015	DATE - 3/13/15	REVISED -		SCALE: N/A	SHEET 6 OF 10 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT



PLOT SCALE = 100.0000 ' / in.

PLOT DATE = 3/16/2015

CHECKED -

DATE

SLD

- 3/13/15

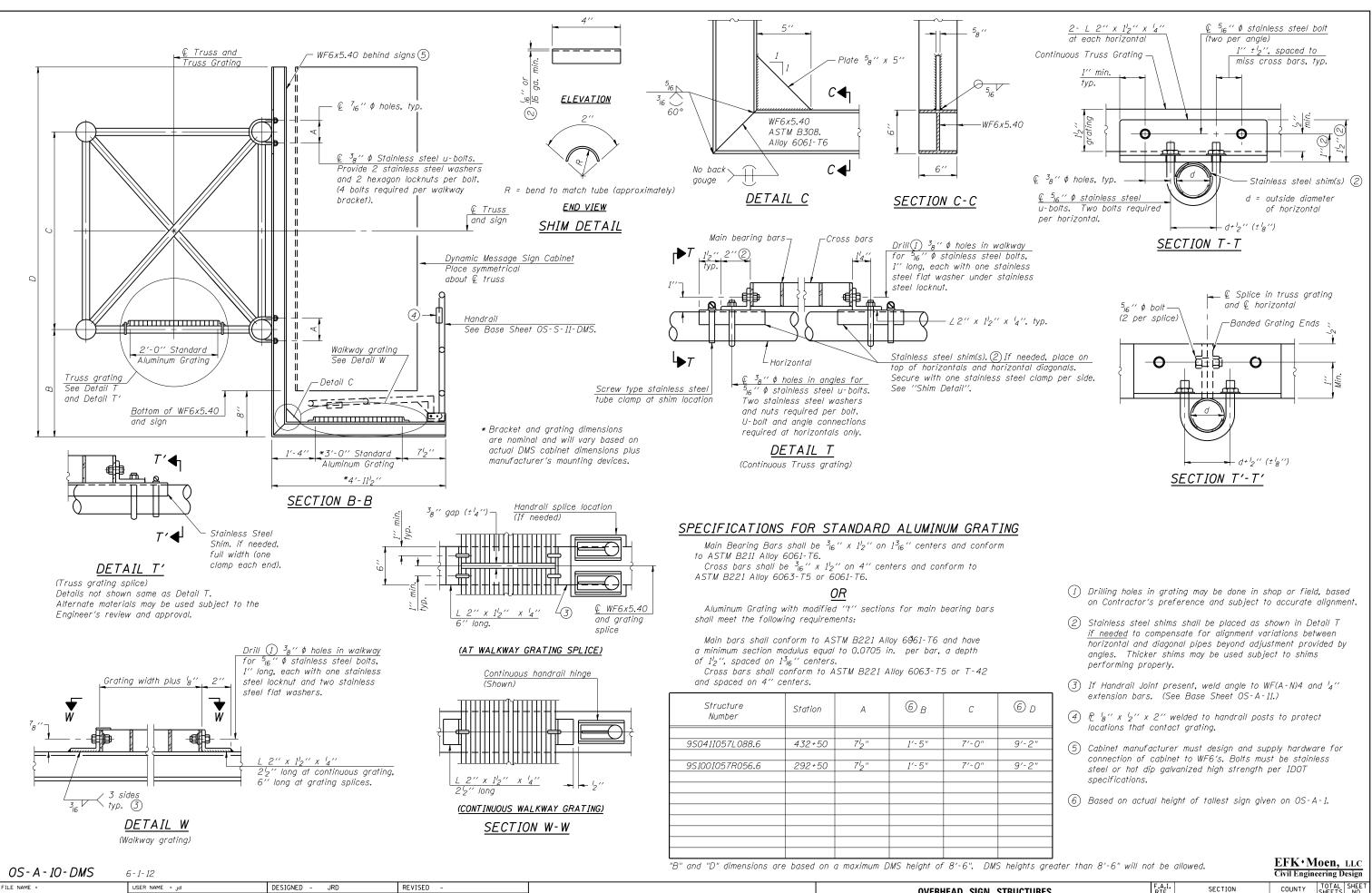
REVISED

REVISED

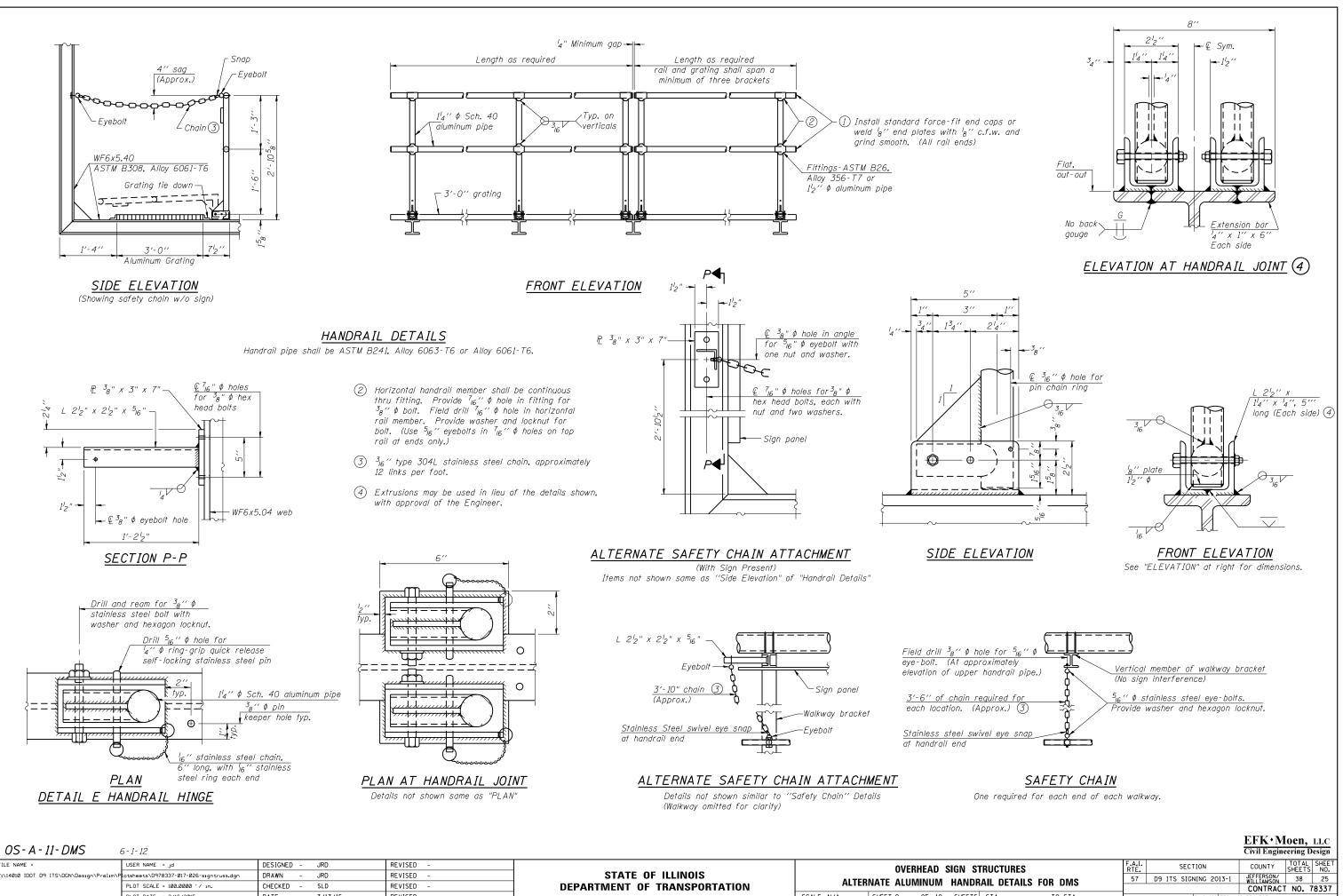
ALTERNATE ALUMINUM WALK **DEPARTMENT OF TRANSPORTATION** 

SCALE: N/A SHEET 7 OF 10 SHEET

STRUCTURES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
KWAY DETAILS FOR DMS	57	D9 ITS SIGNING 2013-1	JEFFERSON∕ WILLIAMSON	38	23
			CONTRACT	NO. 7	8337
TS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		



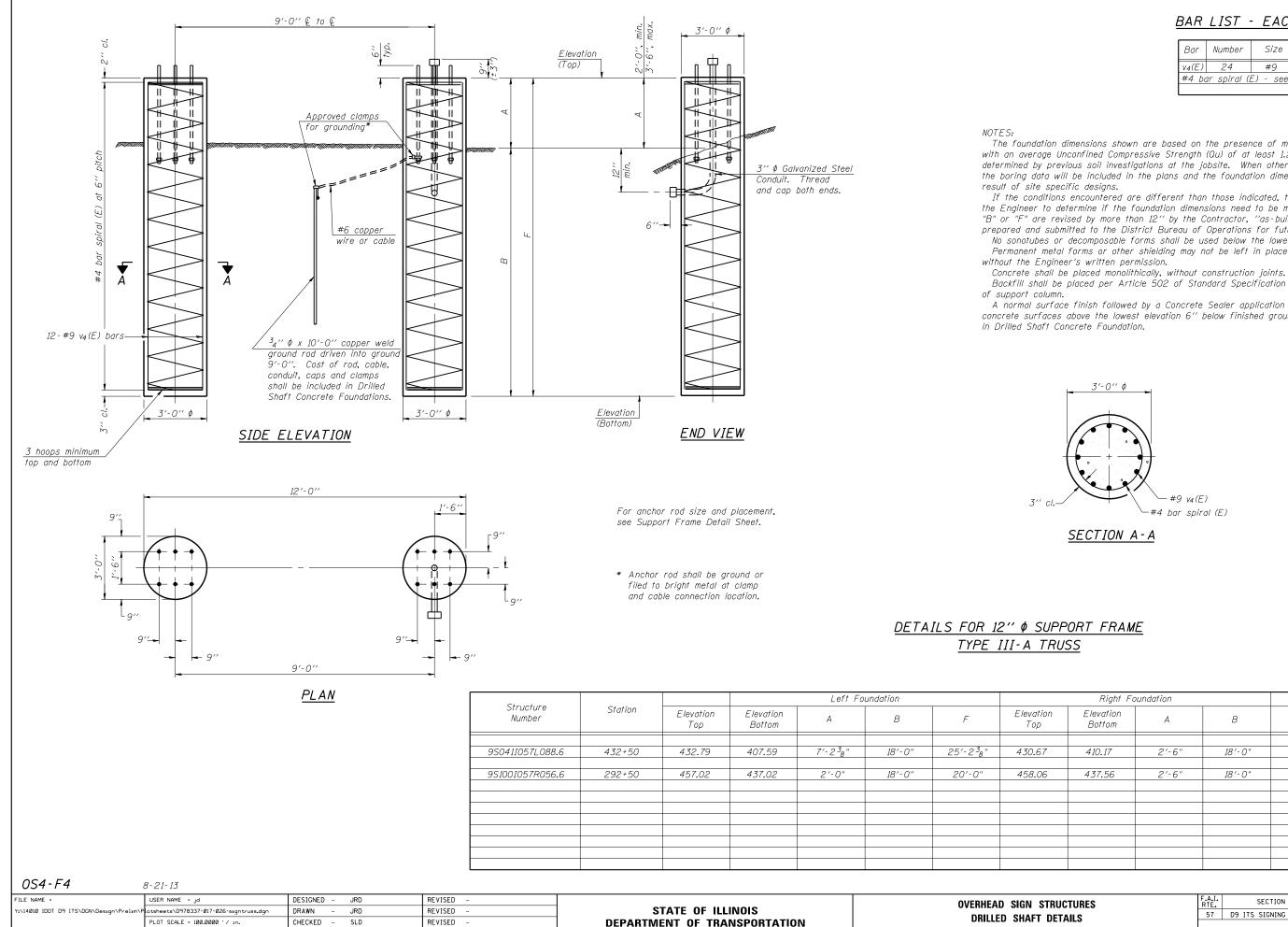
FILE NAME =	USER NAME = jd	DESIGNED -	JRD	REVISED -			OVERHEAD	SIGN STRUCTURES		F.A.I.	SECTION	COUNTY TOTAL SHEET
Y:\14010 IDOT D9 ITS\DGN\Design\Prelim\F	lotsheets\D978337-017-026-signtruss.dgn	DRAWN -	JRD	REVISED -	STATE OF ILLINOIS					57	D9 ITS SIGNING 2013-1	JEFFERSON/ 38 24
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	SLD	REVISED -	DEPARTMENT OF TRANSPORTATION	ALIE	ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS		LS FUR DIVIS			CONTRACT NO. 78337
	PLOT DATE = 3/16/2015	DATE -	3/13/15	REVISED -		SCALE: N/A	SHEET 8 OF 10	O SHEETS STA	TO STA.		ILLINOIS FED. AI	ID PROJECT



TO STA.

TULINOIS FED ALD PROJECT

FILE NAME = Y:\14010 IDOT D9 ITS\DGN\Design\Prelim\P	USER NAME = jd lotsheets\D978337-017-026-signtruss.dgn PLOT SCALE = 100.0000 ′ / in.	DESIGNED – JRD DRAWN – JRD CHECKED – SLD	) RE	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALTER	OVEF RNATE ALUN	RHEAD MINUM		TRUCTUI RAIL DET
	PLOT DATE = 3/16/2015	DATE - 3/13	3/15 RE	REVISED -		SCALE: N/A	SHEET 9	0F 10	SHEETS	, STA.



SCALE: N/A SHEET 10 OF 10 SHEET

DATE

- 3/13/15

REVISED

PLOT DATE = 3/16/2015

# BAR LIST - EACH FOUNDATION

v₄(E)   24   #9   F less 5''   —	
#4 bar spiral (E) - see Side Elevation	

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

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

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

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

# EFK Moen, LLC **Civil Engineering Design**

	Right Fou	undation			Class DS
tion D	Elevation Bottom	А	В	F	Concrete (Cu. Yds.)
67	410.17	2'-6"	18'-0"	20′-6″	23.9
06	437.56	2'-6"	18'-0"	20'-6"	21.2

STRUCTURES	5	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>DETAILS</b>		57	D9 ITS SIGNING 2013-1	JEFFERSON/ WILLIAMSON	38	26
				CONTRACT	T NO. 7	8337
IS STA.	TO STA.		ILLINOIS FED. A	D PROJECT		

Proposed Truss Mounted Messa	age Bo	ard Ove			ne Materials FAI 57		oring 1 Sheet 1	-	
Route: FAI 57 Sta	ructur	e Numbe	er: 9504	111057L	088.6	Date	: 7	/21/201	14
Section D9 ITS Signing 1013	_						R Mobe	-	
County: Jefferson	Loca	tion: M	lilemar)	ker 88.	6, 1.8 mi S of Bakervi Check	ed By:	R Grae	ff	
Boring No 1-MB	D E	B L			Surf Wat Elev: Ground Water Elevation	- D E	B L		
Offset 24' Lt CL SBL	P	0	Qu		when Drilling 402.3	. P	0		
Ground Surface 429.3 Ft	T H	W S	tsf	W%	At Completion At: Hrs:	- Т Н	W S	Qu tsf	W%
Crushed aggregate	<u> </u>								_
					Soft, very moist, brown, Silty Clay to Clay A7-6	_	1 WH	0.3B	2
427.3 Stiff moist brown Silty Clay A 6					402.3				
Stiff, moist, brown, Silty Clay A-6		1	1.1B	18	Very soft, wet, brown, Silty Clay to Silty Clay Loam A-6		<u>WH</u> 1	0.2B	3
-		3	1.10	10			WH	0.20	3
_					1				
424.8					399.8				
Very stiff, moist, grey mottled brown, Silty Clay to Clay A7-6	5.0	2	2.10		Medium, very moist, brown, Silty	30.0	WH		
brown, Silty Clay to Clay A7-6		4 5	3.1S	20	Clay Loam A-4		1	0.6S	3
-					-		2		
-					397.3				
		2			Medium to stiff, very moist, grey		1		
-		5	3.7B	17	mottled brown, Silty Clay A-6		1	1.0B	2
		8			4		1		
-					-				
-	10.0	2			1	35.0	1		
		4	3.1S	18			1	0.7B	2
-		6					2		
417.3					392.3				
Very stiff, moist, brown mottled		1			Soft, very moist, grey, Clay A7-6		WH		
grey, Clay A7-6 _		3	2.3B	21			WH	0.4B	2
		4			-		WH		
414.8 -					389.8				
Stiff, moist, brown and grey,	15.0	3			Medium to soft, very moist, grey,	40.0	WH		
Clay Loam A-6		9	1.6S	17	Clay A7-6		WH	0.5B	2
-		14			4 -		1		
412.3					++++++++++++++++++++++++++++++++++++++				
Stiff, moist, grey mottled brown,	_	1			stem auger (8" O.D, 3.25" I.D.)				
Silty Clay A-6		1	1.2S	22					
		3			To convert "N" values to "N60"				
409.8					multiply by 1.25				
Stiff, moist, brown, Silty Clay to	20.0	1			Very loose, wet, grey, Sand	45.0	WH		
Clay A7-6		3	1.8B	25		10.0	WH		
_		3			383.3		1		
407.0					Bottom of hole = 46.0 feet				
407.3 Medium, very moist, brown, Silty		WH			Free water observed at 27.0 feet				
Clay to Clay A7-6 (15)		1	0.8B	26	li i co water observed at 27.0 ieet		1		
		2		20	Elevation referenced to CL SB		j		
					I57@ Sta. 432+50; Elevation =				
404.8					430.4 feet		]		

	I				C OF TRANSPORTATION Ne Materials		Bridge Boring	Foundat Log	ion
Proposed Truss Mounted Messa	age Boa					5	Sheet 1	of 1	
Route: FAI 57 Str	ructure	Numbe	r: D904	11057L	088.6	Date	: 1	7/21/20	14
Section D9 ITS Signing 1013	_				Во	red By:	R Mobe	erly	
County: Jefferson	Locat	ion: M	ilemar	ker 88.	6, 1.8 mi S of Bakervi Chec	ked By:	R Grae	eff	
					Surf Wat Elev:				
Boring No 2-MB	D E	B L			Ground Water Elevation	- D E	B L		
Station 432+50	P	ō			when Drilling 403.1	_ P	ō		
Offset 16' Rt CL SBL	T I	W	Qu		At Completion	- <u>г</u>	w	Qu	
Ground Surface 430.1Ft	н	S	tsf	W%	At: Hrs:	н	S	tsf	W%
Asphalt over crushed aggregate					Soft, very moist, brown mottled		WH	0.4B	25
_					grey, Silty Clay Loam A-6		WH		
428.1									
Medium, very moist, grey, Silty	_	1					WH		
Clay A-6		1	0.8B	24			WH	0.4B	26
	-+	1					WH		
425.6					400.6				
Very stiff, moist, brown and grey,	5.0	1			Very soft, very moist, brown	30.0	WH		
Silty Clay A-6	0.0	4	3.3B	17			WH	0.2B	27
_		4			399.1		WH		
-									
		1			Bottom of hole = 31.0 feet				
-		4	2.7B	22					
		5			Free water observed at 27.0 feet				
420.6					Elevation referenced to CL CR				
Very stiff, moist, grey, Silt Loam	10.0	2			Elevation referenced to CL SB I57@ Sta. 432+50; Elevation =	35.0	{		
A-4	10.0	9	3.7S	17		00.0			
	_	9	0.70		100.11001		1		
-					Borehole advanced with hollow		1		
418.1					stem auger (8" O.D, 3.25" I.D.)		]		
Very stiff, moist, brown and grey,		1		1			]		
Clay A7-6		4	3.1B	19	To convert "N" values to "N60"		1		
		5			multiply by 1.25		-		
-							-		
	15.0	2				40.0	1		
-	10.0	4	2.5B	18	-	40.0	4		
	_	6					1		
					Î.		]		
413.1									
Very stiff, moist, grey mottled		1			-		-		
brown, Silty Clay to Silty Clay		3	2.7S	21			-		
Loam A-6		3			-		-		
410.6							1		
Stiff, moist to very moist, grey	20.0	WH				45.0			
mottled brown, Silty Clay Loam		1	1.1B	26			1		
A-6		1					]		
408.1					-				
Medium, very moist, brown, Silty		WH			-		_		
Clay to Clay A7-6		1	0.7B	26			-		
		2					-		
405.6							-		
	25.0	WH				50.0	1		
L	20.0						1		

FILE NAME = USER NAME = jd DESIGNED - JRD REVISED -STATE OF ILLINOIS BORING LO Y:\14010 IDOT D9 ITS\DGN\Design\Prelim\P otsheets\D978337-027-028-boringlogs.dgn DRAWN - JRD REVISED - 
 CHECKED
 SLD

 DATE
 3/13/15
 PLOT SCALE = 100.0000 '/ in. REVISED -DEPARTMENT OF TRANSPORTATION PLOT DATE = 3/16/2015 REVISED -SCALE: N.A. SHEET 1 OF 2 SHEETS

# EFK • Moen, LLC Civil Engineering Design

		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
L0(	GS		57	D9 ITS SIGNING 2013-1	JEFFERSON/ WILLIAMSON	38	27
					CONTRACT	「 NO. 7	8337
TS	STA.	TO STA.		ILLINOIS FED. 4	ID PROJECT		

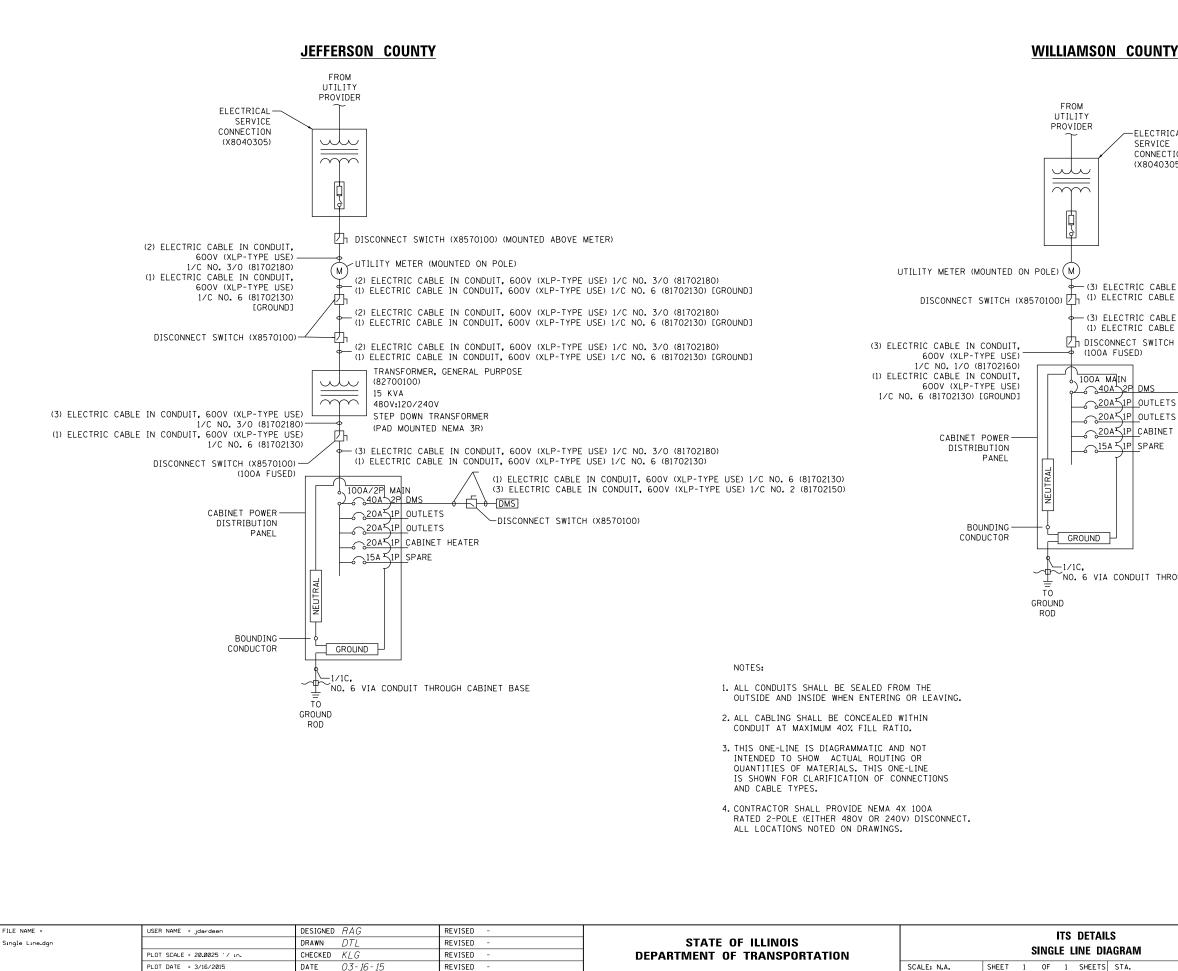
Proposed Truss Mounted Mess								of 1	
Route: FAI 57 St Section	ructur	e Numbe	r:		Bor			7/17/20	14
County: Williamson	- Loca	tion: M:	ilemar	ker 56.	5, 0.7 mi S of Stotlar Check				
					Surf Wat Elev:		R OI U	1	
Boring No 1-MB	D E	B L			Ground Water Elevation	- D	В		
Station 292+50	P	ō			when Drilling	E P	L		
Offset 23' Lt CL Median	Т	w	Qu		At Completion	Т	W	Qu	
Ground Surface 457.8 Ft	н	S	tsf	W%	At: Hrs:	Н	S	tsf	W%
9.5" Asphalt over crushed									
aggregate _					Cored 24.7 to 29.7 feet				
					Very dense, dry, brown and grey,				
-					Sandstone				
-									
453.8					100% Recovery; 7% RQD				
Very stiff, moist, brown, Clay A7-6					-				
	5.0	1			427.8	30.0			
		2	2.1B	21					
-		4			-				
					Bottom of hole = 29.7 feet				
-		2							
		4	2.5B	18	No free water observed				
		6			Flowetion referenced to plane at				
448.3					Elevation referenced to plans at Sta 292+50; Elev = 458.3 ft				
Hard, damp, brown mottled grey,	10.0	3				35.0	j		
Clay A7-6		10	5.0B	14	Borehole advanced with hollow				
		9			stem auger (8" O.D, 3.25" I.D.)				
445.8	_				To convert "N" values to "N60"		1		
Very stiff, moist, brown and grey,		3			multiply by 1.25		1		
Clay to Clay Loam A-6		6	2.7B	17			1		
	_	8			4				
443.3							1		
Stiff, moist, brown and grey,	15.0				1	40.0	1		
Clay to Clay Loam A-6		3	1.5B	16			-		
		3			4 .		{		
440.8							1		
Stiff, moist, grey and brown,		2					]		
Clay to Clay Loam A7-6		4	1.2B	24			-		
		3			1		1		
438.3							1		
V.dense, dry, br, Sandstone 437.8	20.0	100/2"				45.0	j		
Cared 10 7 to 04 7 fact									
Cored 19.7 to 24.7 feet									
Very dense, dry, brown and grey,							1		
highly weathered Sandstone with							]		
Clay layers .							-		
40% Recovery; 0% RQD							-		
TO /O HOLOVERY, U /O HQD							1		
432.8	25.0					50.0	1		

Proposed Truss Mounted Mes	ssage Bo	oard Ov	Distr er FAI	
	Structur	re Numb	er:	
Section				
County: Williamson	Loca	ation:	Milemar	Ker 5
Boring No 2-MB	D	В		
Station 292+50				
Offset 75' Lt CL Median	Т	w	Qu	
Ground Surface 457.61	rt H	S	tsf	W%
Stiff, moist to very moist, brown mottled grey, Silty Clay to Clay		1		
A7-6		1		
		1		
		2		
		4	1.2B	2
		4		
453.1				
Very stiff, moist, brown mottled	5.0	2	•••	
grey, Clay A7-6		5	3.3S	2
		6		
		2		
		5	2.7S	2
		6		
448.1				
Hard, moist, brown mottled grey,	10.0	4		
Clay A7-6		10	4.5B	1
		10		
445.6				
Very stiff, moist, brown mottled		2		
grey, Clay A7-6		4	2.1B	2
		5		
443.1				
Stiff, moist, brown mottled grey,	15.0	4		
Clay A7-6 with sand seams		10	1.4S	2
		18		
440.6				
Very dense, dry, brown,		24		
Sandstone 439.6		100/4"		
Bottom of hole = 17.8 feet				
No free water observed	20.0			
Elevation referenced to plans at				
Sta 292+50; Elev = 458.3 ft				
Borehole advanced with hollow				
stem auger (8" 0.D, 3.25" I.D.)				
To convert "N" values to "N60"				
nultiply by 1.25				
	25.0			

FILE NAME =	USER NAME = jd	DESIGNED – JRD	REVISED -			F.A.I. SECTION	COUNTY TOTAL SHEET	
Y:\14010 IDOT D9 ITS\DGN\Design\Prelim\P	lotsheets\D978337-027-028-boringlogs.dgn	DRAWN – JRD	REVISED -	STATE OF ILLINOIS	BORING LOGS		57 D9 ITS SIGNING 2013-1	JEFFERSON/ 38 28
	PLOT SCALE = 100.0000 ' / in.	CHECKED - SLD	REVISED -	DEPARTMENT OF TRANSPORTATION			CONTRACT NO. 78337	
	PLOT DATE = 3/16/2015	DATE - 3/13/15	REVISED -		SCALE: N.A. SHEET 2 OF 2 SHEETS STA.	TO STA.	ILLINOIS FED. A	AID PROJECT

ENT OF TRANSPORTATION Nine Materials	Date		Log of 1 1/21/20	
Bor 6.5, 0.7 mi S of Stotlar Check	ed By: ed By:	R Mobe	erly	
Surf Wat Elev:	D	в		
Ground Water Elevation	E	Ĺ		
when Drilling	P	0	-	
At Completion At: Hrs:	T H	W S	Qu tsf	W%
Fail. B-Bulge S-Shear E-Estimated		netromet	er)	

# EFK · Moen, LLC Civil Engineering Design

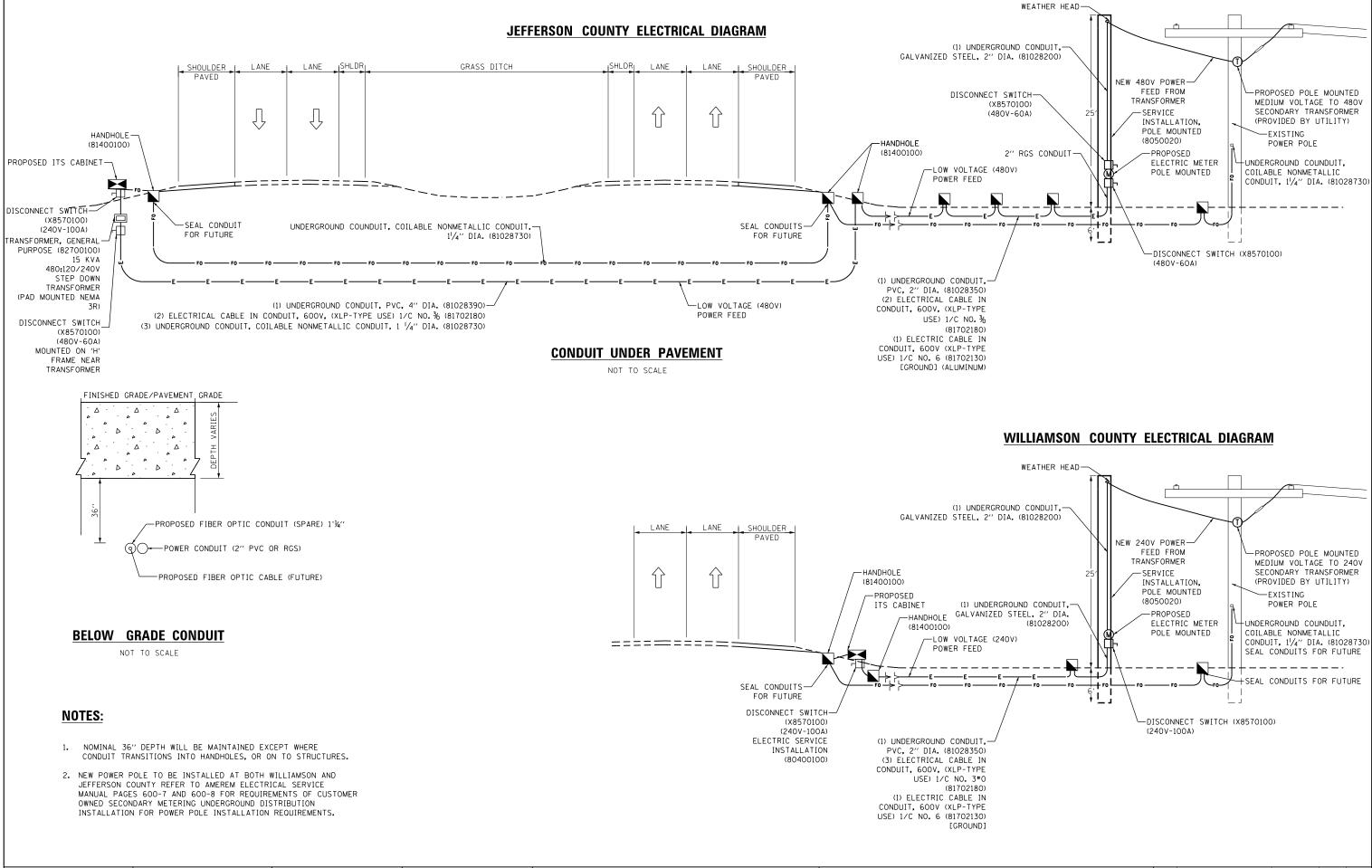


/	-ELECTRICAL
	SERVICE
/	CONNECTION
	(X8040305)

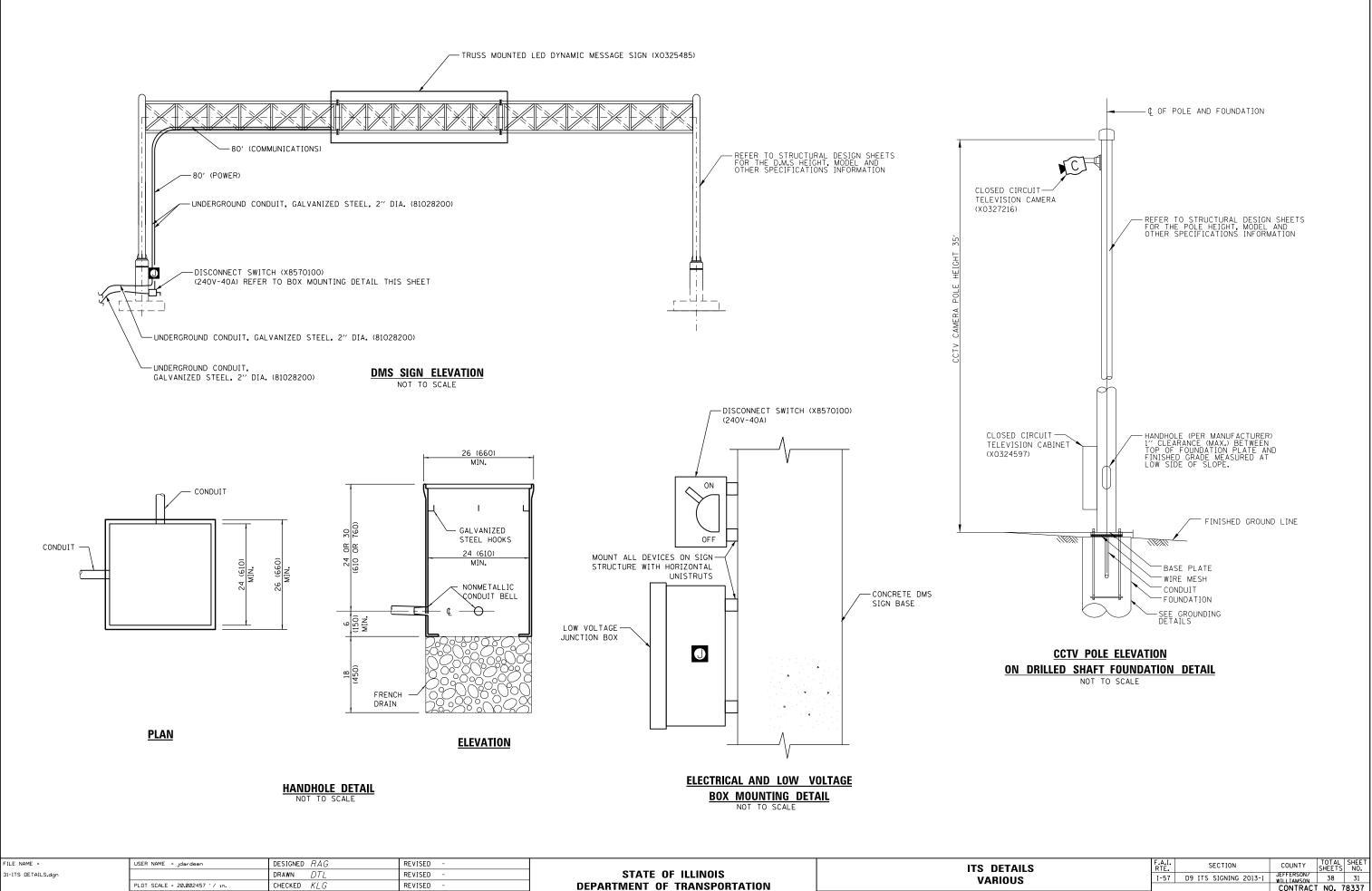
- (3) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0 (81702160) DISCONNECT SWITCH (X8570100) (1) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6 (81702130) [GROUND] (3) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0 (81702160) (1) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6 (81702130) [GROUND] 山 DISCONNECT SWITCH (X8570100) - (1) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6 (81702130) (100A FUSED) (3) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2 (81702150) 40A 2P DMS 20A TIP OUTLETS (X0325485) \_\_\_\_\_OUTLETS DISCONNECT SWITCH (X8570100) 20A TIP CABINET HEATER 

NO. 6 VIA CONDUIT THROUGH CABINET BASE

١L	S		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DIAGRAM		I-57	D9 ITS SIGNING 2013-1	JEFFERSON/ WILLIAMSON	38	29	
					CONTRAC	T NO. 7	8337
rs	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



FILE NAME	=	USER NAME = jdardeen	DESIGNED RAG	REVISED -			ITS DETAILS		F.A.I. SECTION	COUNTY TOTAL SHEET	
Jacking Pla	lan Detail.dgn		DRAWN DTL	REVISED -	STATE OF ILLINOIS	CONDUIT & TRENCHING DETAIL			ULL JEFFERSON/ JEFFERSON/ 38 30 WILLIAMSON 38 30 CONTRACT NO. 7833		
		PLOT SCALE = 20.0025 ' / in.	CHECKED KLG	REVISED -	DEPARTMENT OF TRANSPORTATION						
		PLOT DATE = 3/16/2015	DATE 03-16-15	REVISED -		SCALE: N.A. SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			



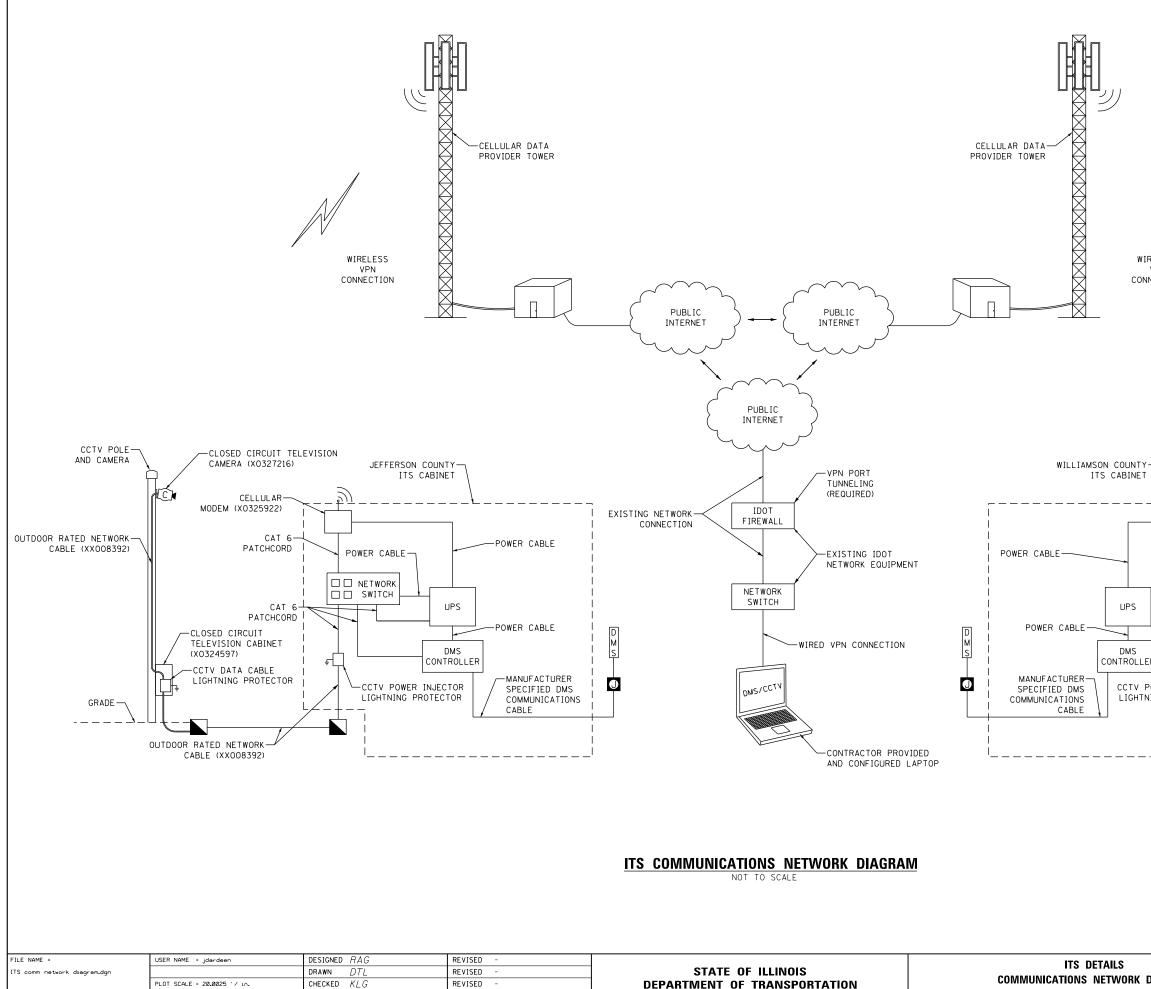
SCALE: N.A.

DATE 03-16-15

REVISED

PLOT DATE = 3/16/2015

			- 17	IS DE	TAILS		RTE.	SECTION	COUNTY	SHEETS	NO.
				VARIO	ามร		I-57	D9 ITS SIGNING 2013-1	JEFFERSON/ WILLIAMSON	38	31
									CONTRACT	NO.	78337
SHEET	1	OF	1	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		



03-16-15

DATE

PLOT DATE = 3/16/2015

COMMUNICATIONS NET REVISED **DEPARTMENT OF TRANSPORTATION** SCALE: N.A. SHEET 1 OF 1 SHEET REVISED

WIRELESS VPN CONNECTION CLOSED CIRCUIT TELEVISION-CAMERA (X0327216) -CCTV POLE AND CAMERA  $\left( \int_{\mathcal{C}} dt \right)$ NC. -CELLULAR MODEM (X0325922) -OUTDOOR RATED -CAT 6 NETWORK CABLE PATCHCORD (XX008392) -POWER CABLE NETWORK UPS CAT 6 PATCHCORD CLOSED CIRCUIT-TELEVISION CABINET (X0324597) DMS CONTROLLER CCTV DATA CABLE-LIGHTNING PROTECTOR CCTV POWER INJECTOR-LIGHTNING PROTECTOR -GRADE -OUTDOOR RATED NETWORK CABLE (XX008392)

AILS				SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TWORK DIAGRAM			I-57	D9 ITS SIGNING 2013-1	JEFFERSON/ WILLIAMSON	38	32
					CONTRAC	T NO. 7	8337
TS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

