

# 2022 EMERGING TECHNOLOGY CONTRACTORS WORKSHOP

## *Intelligent Transportation Systems and Electrical*

Rob Glaz, Illinois Tollway

Michel Lavigne and Tasha Steiner, Illinois Tollway GEC

Anthony Aladham, Illinois Tollway PMO

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# LESSONS LEARNED

Device integration

Device programming

Device installation

Device testing and commissioning





## Real-time access of status

SCHEDULE OF NEW DEVICES														
SITE NO.	DEVICE DESIGNATION	DEVICE TYPE	ROUTE	LATITUDE	LONGITUDE	MILE POST	STATION	OFFSET	DIRECTION	MOUNTING TYPE	MOUNTING HEIGHT	FOUNDATION TYPE	PLAN SHEET	NOTES
88-59.0	088W059.0CAM69.XX	CCTV CAMERA	I-88	41°49'22.83"	89°22'39.79"	59.0	3129+05	114' LT	I-88 WB	50' POLE	48'	HELIX (10')	ITS-03	
88-61.0	088E061.0CAM69.XX	CCTV CAMERA	I-88	41°49'22.80"	89°20'20.48"	61.0	3234+59	120' RT	I-88 EB	50' POLE	48'	HELIX (10')	ITS-04 - ITS-06	
88-63.0	088E063.0CAM69.XX	CCTV CAMERA	I-88	42°7'45.38"	89°16'33.94"	63.0	3340+18	99' RT	I-88 EB	50' POLE	48'	HELIX (12')	ITS-07	
88-64.3	088W064.3CAM69.XX	CCTV CAMERA	I-88	41°49'59.99"	89°16'42.99"	64.3	3411+87	106' LT	I-88 WB	50' POLE	48'	HELIX (10')	ITS-08 - ITS-11	
88-65.7	088E065.7CAM69.XX	CCTV CAMERA	I-88	41°50'28.03"	89°15'24.88"	65.7	3486+39	116' RT	I-88 EB	50' POLE	48'	HELIX (10')	ITS-12 - ITS-13	
88-87.8	088E087.8CAM66.XX	CCTV CAMERA	I-88	41°53'59.01"	88°50'37.84"	87.8	4653+70	111' RT	I-88 EB	50' POLE	48'	HELIX (10')	ITS-14 - ITS-15	
88-89.5	088E089.5CAM67.XX	CCTV CAMERA	I-88	41°53'59.54"	88°48'40.62"	89.5	4742+43	108' RT	I-88 EB	50' POLE	48'	HELIX (10')	ITS-16	
		SOLAR GENERATOR	I-88	41°53'59.61"	88°48'40.87"		4742+24	108' RT		6' POLE	6'	HELIX (10')	ITS-16	
88-91.2	088E091.2CAM67.XX	CCTV CAMERA	I-88	41°54'2.04"	88°46'49.32"	91.2	4833+36	103' RT	I-88 EB	50' POLE	48'	HELIX (10')	ITS-17	
90-5.1	090W005.1CAM01.XX	CCTV CAMERA	I-90	42°25'30.76"	88°59'7.42"	5.1	225+51	86' LT	I-90 WB	50' POLE	48'	HELIX (10')	ITS-18 - ITS-20	
90-6.1	090E006.1CAM01.XX	CCTV CAMERA	I-90	42°24'27.4"	88°59'6.69"	6.1	289+32	114' RT	I-90 EB	50' POLE	48'	HELIX (10')	ITS-21	
90-7.3	090W007.3CAM01.XX	CCTV CAMERA	I-90	42°23'33.78"	88°58'33.97"	7.3	347+93	74' LT	I-90 WB	50' POLE	48'	HELIX (10')	ITS-22 - ITS-23	
90-9.4	090W009.4CAM04.XX	CCTV CAMERA	I-90	42°21'50.87"	88°57'51.29"	9.4	457+20	76' LT	I-90 WB	50' POLE	48'	HELIX (10')	ITS-24 - ITS-25	
90-10.8	090E010.8CAM04.XX	CCTV CAMERA	I-90	42°20'36.51"	88°57'52.4"	10.8	533+62	74' RT	I-90 EB	50' POLE	48'	HELIX (10')	ITS-26 - ITS-27	
	090E010.8CAM04.XX	CCTV CAMERA								20'				
90-12.2	090W012.2CAM02.XX	CCTV CAMERA	I-90	42°19'33.63"	88°57'53.64"	12.2	605+42	89' RT	I-90 WB	50' POLE	48'	HELIX (10')	ITS-28 - ITS-30	
90-13.0	090E013.0CAM02.XX	CCTV CAMERA	I-90	42°18'29.18"	88°57'54.23"	13.0	650+56	82' RT	I-90 EB	50' POLE	48'	HELIX (10')	ITS-31	
90-14.4	090E014.4CAM02.XX	CCTV CAMERA	I-90	42°17'26"	88°57'54.51"	14.4	725+82	70' RT	I-90 EB	50' POLE	48'	HELIX (10')	ITS-32 - ITS-33	
		SOLAR GENERATOR								6' POLE	6'			
90-26.4	090W026.4CAM03.XX	CCTV CAMERA	I-90	42°14'2.89"	88°47'21.76"	26.4	1357+00	110' LT	I-90 WB	50' POLE	48'	HELIX (10')	ITS-34	

# LESSONS LEARNED – PROGRAMMING

Unbox and power devices in advance

Label devices (painter's tape)

Label box

Properly store device after programming  
by Tollway



# LESSONS LEARNED - INSTALLATION

Survey and stake site

Linear installation

Helix foundation, pole and device

Install enclosure with or without backplate

Install electronics inside enclosure





# LESSONS LEARNED –TESTING & COMMISSIONING

Local device test

Submit forms promptly

Communication upgrade components

ILLINOIS TOLLWAY  
Inventory Control

A-14  
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Contract No. \_\_\_\_\_

Contractor \_\_\_\_\_

CM \_\_\_\_\_

Tallied By \_\_\_\_\_

Authorization \_\_\_\_\_  
Illinois Tollway Project Manager

Date \_\_\_\_\_

☐ Permanent Issue to Contractor (MMS W.O. # \_\_\_\_\_)

☐ Temporary Issue to Contractor (Transfer # \_\_\_\_\_)

☐ Return of Temp. Issue by Contr. (Transfer # \_\_\_\_\_)

☐ Del. of Material to IL Tollway by Contr. (Rec. Rept. # \_\_\_\_\_)

Maintenance Facility \_\_\_\_\_

Contract Pay Item No. (If applicable)	Item and Description	Size	No. of Pieces	Quantity for Pay Item	Pay Unit

RETURN OF MATERIAL TO TOLLWAY

For Contractor:

Delivered by \_\_\_\_\_  
(Print Name and Title)  
\_\_\_\_\_  
(Sign Full Name)

For Illinois Tollway:

Received by \_\_\_\_\_  
(Print Name and Title)  
\_\_\_\_\_  
(Sign Full Name)

MATERIAL ISSUED TO CONTRACTOR

For Contractor:

Received by \_\_\_\_\_  
(Print Name and Title)  
\_\_\_\_\_  
(Sign Full Name)

For Illinois Tollway:

Issued by \_\_\_\_\_  
(Print Name and Title)  
\_\_\_\_\_  
(Sign Full Name)

Distribution:

Contractor  
Construction Manager(CM)  
Maintenance Facility  
Illinois Tollway Systems Control

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# QUESTIONS?

**Rob Glaz, Illinois Tollway**

[rglaz@getipass.com](mailto:rglaz@getipass.com)

**Michel Lavigne, Illinois Tollway GEC**

[mlavigne@ardmoreroderick.com](mailto:mlavigne@ardmoreroderick.com)

**Tasha Steiner, Illinois Tollway GEC**

[Tasha.steiner@wsp.com](mailto:Tasha.steiner@wsp.com)

**Anthony Aladham, Illinois Tollway PMO**

[aaladham@getipass.com](mailto:aaladham@getipass.com)





THANK YOU