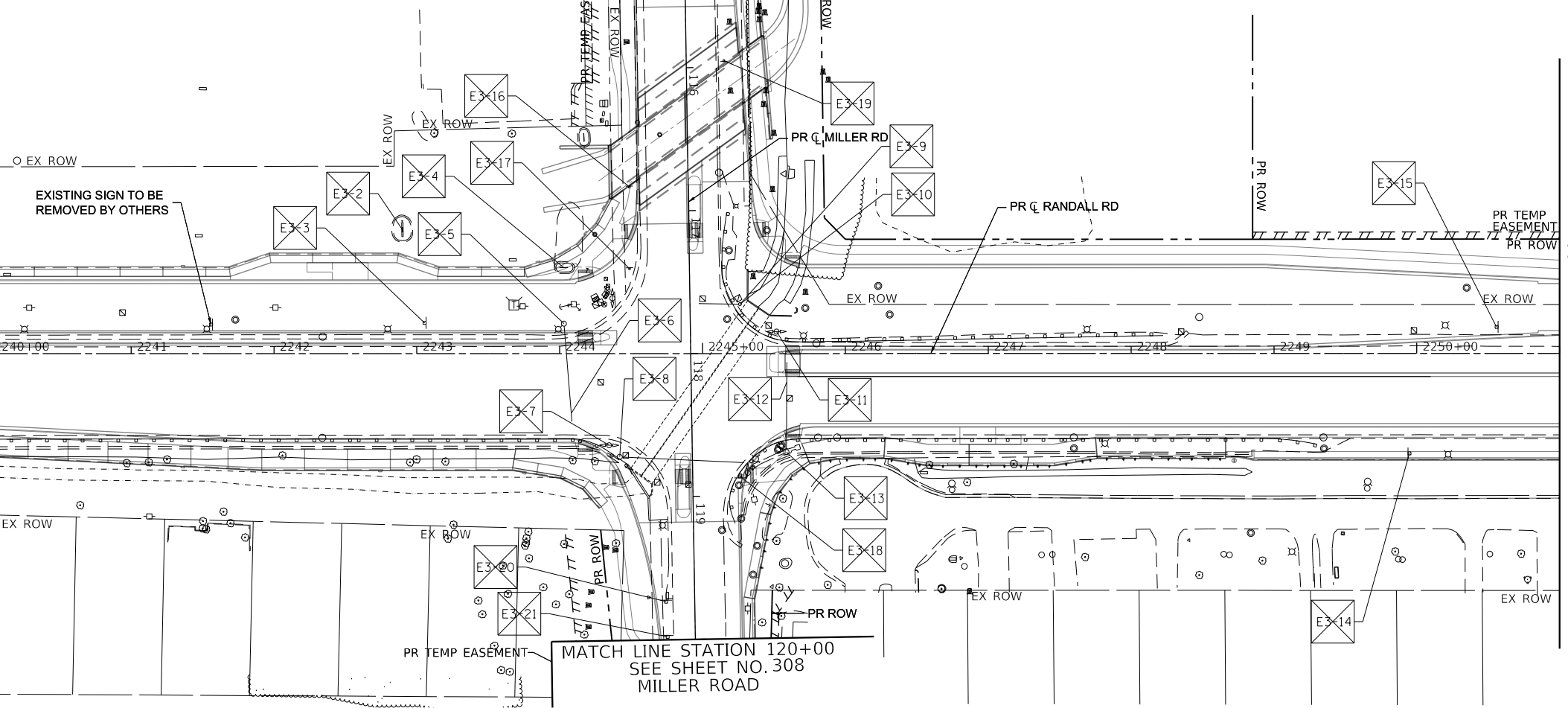
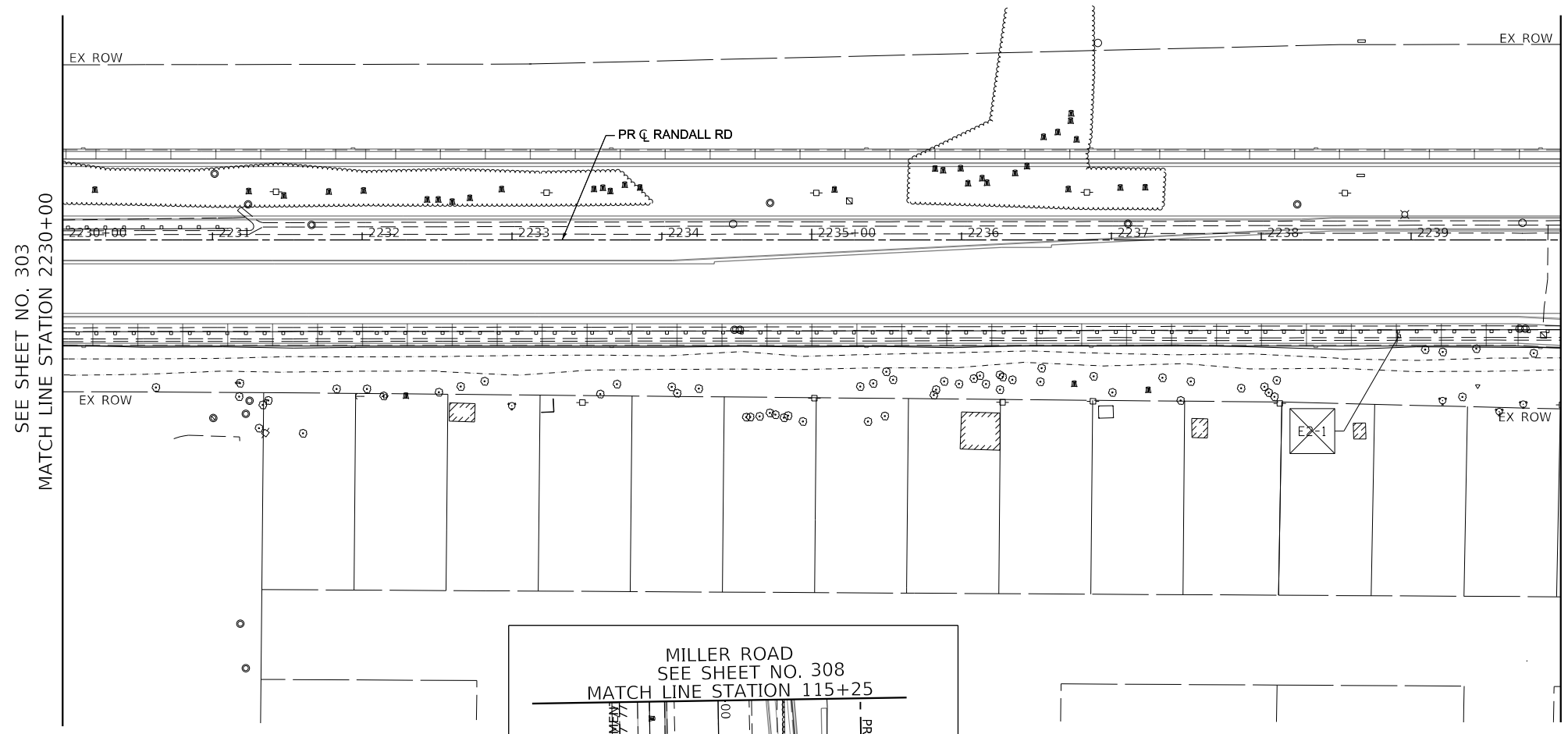




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- LEGEND**
- EXISTING SIGN LOCATION
 - PROPOSED SIGN LOCATION
 - EXX-XX EXISTING SIGN PANEL AND POST TO REMAIN
 - EXX-XX EXISTING SIGN PANEL ASSEMBLY TO BE REMOVED
 - EXX-XX BY OTHERS EXISTING SIGN TO BE RELOCATED BY OTHERS
 - EXX-XX EXISTING SIGN PANEL ASSEMBLY TO BE RELOCATED ON NEW POST
 - SXX-XX PROPOSED SIGN PANEL AND POST
 - SXX-XX PROPOSED LOCATION OF RELOCATED SIGN PANEL ASSEMBLY

NOTES:
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ALL SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE ILLINOIS MANUAL FOR UNIFORM TRAFFIC CONTROL FOR STREETS AND HIGHWAYS. SIGN FACES SHALL BE OF TYPE ZZ REFLECTIVE SHEETING.

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PLOT SCALE = 100,0001 ' / in.	CHECKED - BLA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

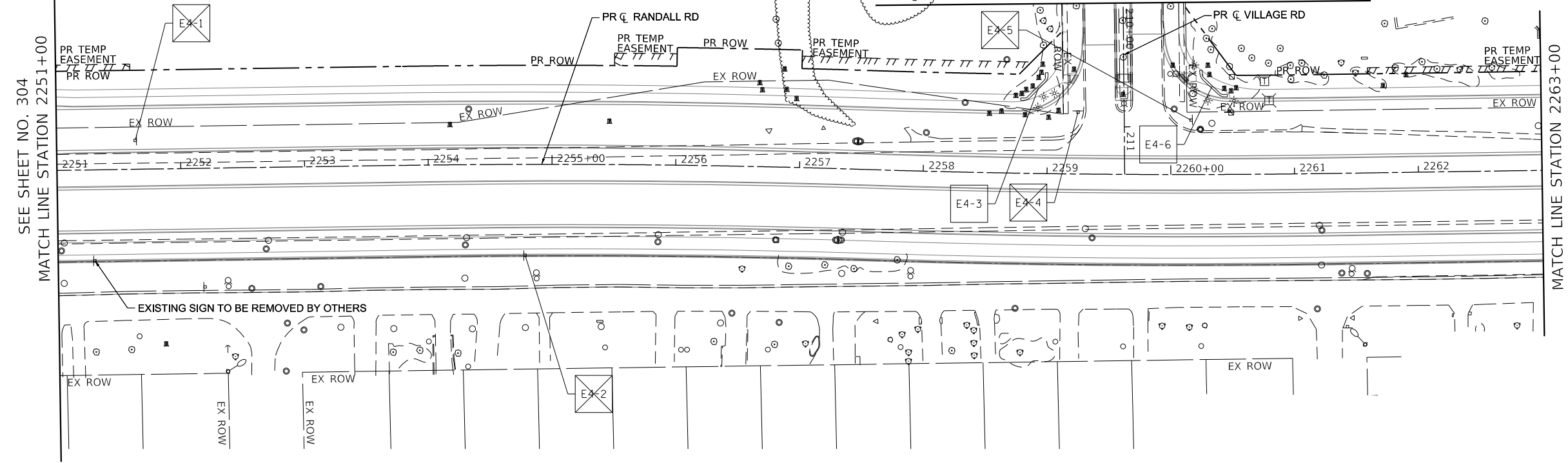
RANDALL ROAD EXISTING SIGNING PLAN

SCALE: 1" = 50' SHEET 2 OF 20 SHEETS STA. 2230+00 TO STA. 2251+00

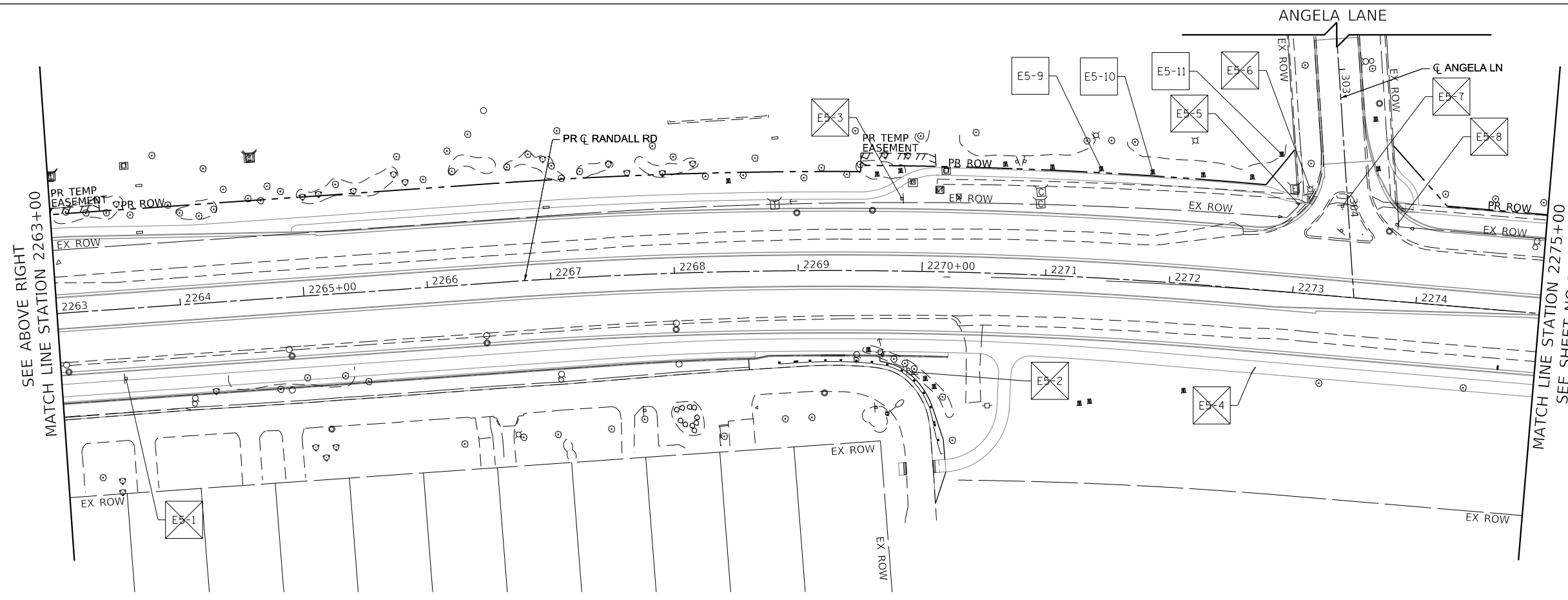
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	304
				CONTRACT NO. 61J93
ILLINOIS		FED. AID PROJECT		



VILLAGE ROAD
SEE SHEET NO. 309
MATCH LINE STATION 210+00



- LEGEND**
- EXISTING SIGN LOCATION
 - PROPOSED SIGN LOCATION
 - EXISTING SIGN PANEL AND POST TO REMAIN
 - EXISTING SIGN PANEL ASSEMBLY TO BE REMOVED
 - BY OTHERS EXISTING SIGN TO BE RELOCATED BY OTHERS
 - EXISTING SIGN PANEL ASSEMBLY TO BE RELOCATED ON NEW POST
 - PROPOSED SIGN PANEL AND POST
 - PROPOSED LOCATION OF RELOCATED SIGN PANEL ASSEMBLY



- NOTES:**
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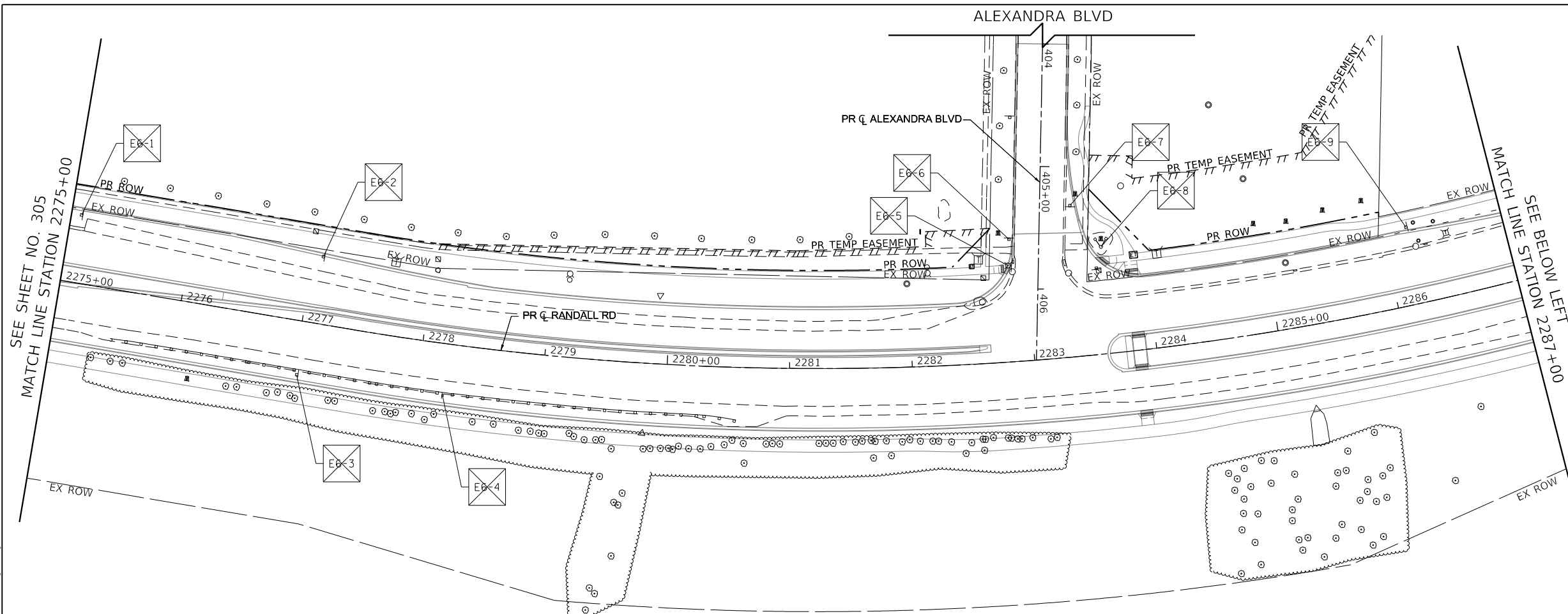
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PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RANDALL ROAD EXISTING SIGNING PLAN

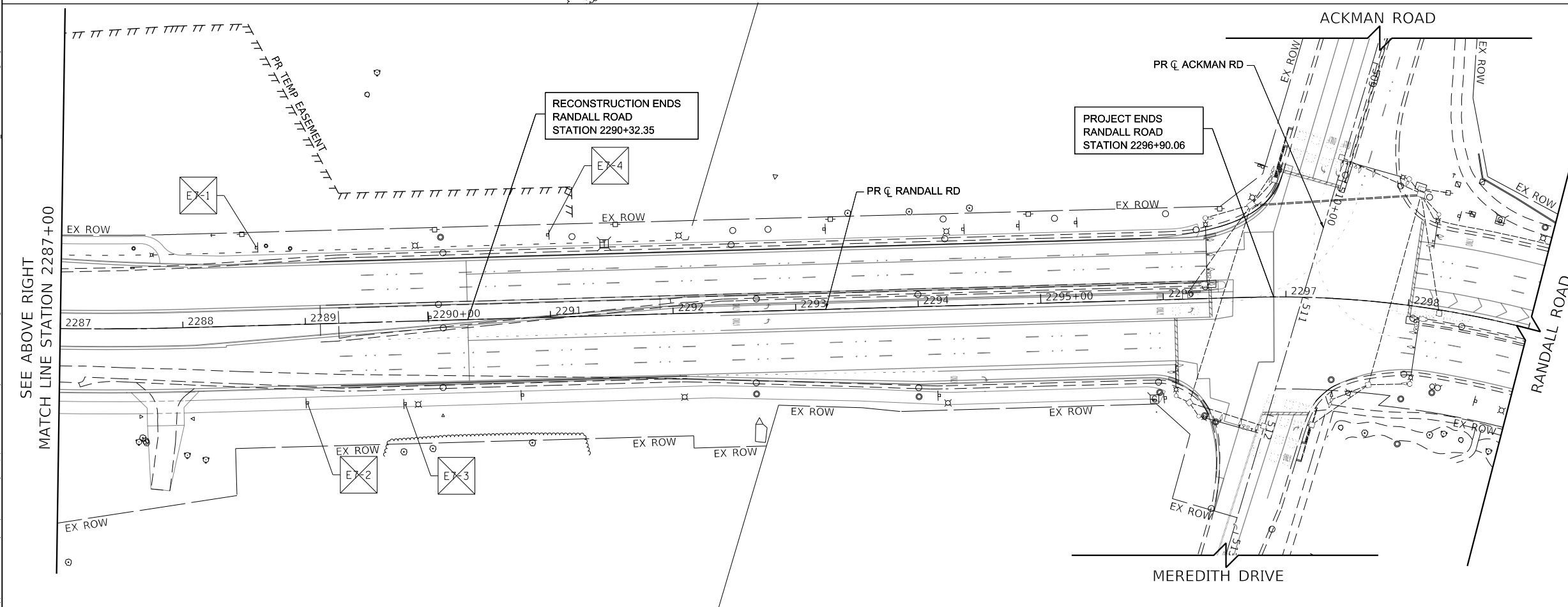
SCALE: 1" = 50' SHEET 3 OF 20 SHEETS STA. 2251+00 TO STA. 2275+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	305
				CONTRACT NO. 61J93
		ILLINOIS	FED. AID PROJECT	



LEGEND

	EXISTING SIGN LOCATION
	PROPOSED SIGN LOCATION
	EXISTING SIGN PANEL AND POST TO REMAIN
	EXISTING SIGN PANEL ASSEMBLY TO BE REMOVED
	BY OTHERS EXISTING SIGN TO BE RELOCATED BY OTHERS
	EXISTING SIGN PANEL ASSEMBLY TO BE RELOCATED ON NEW POST
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PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

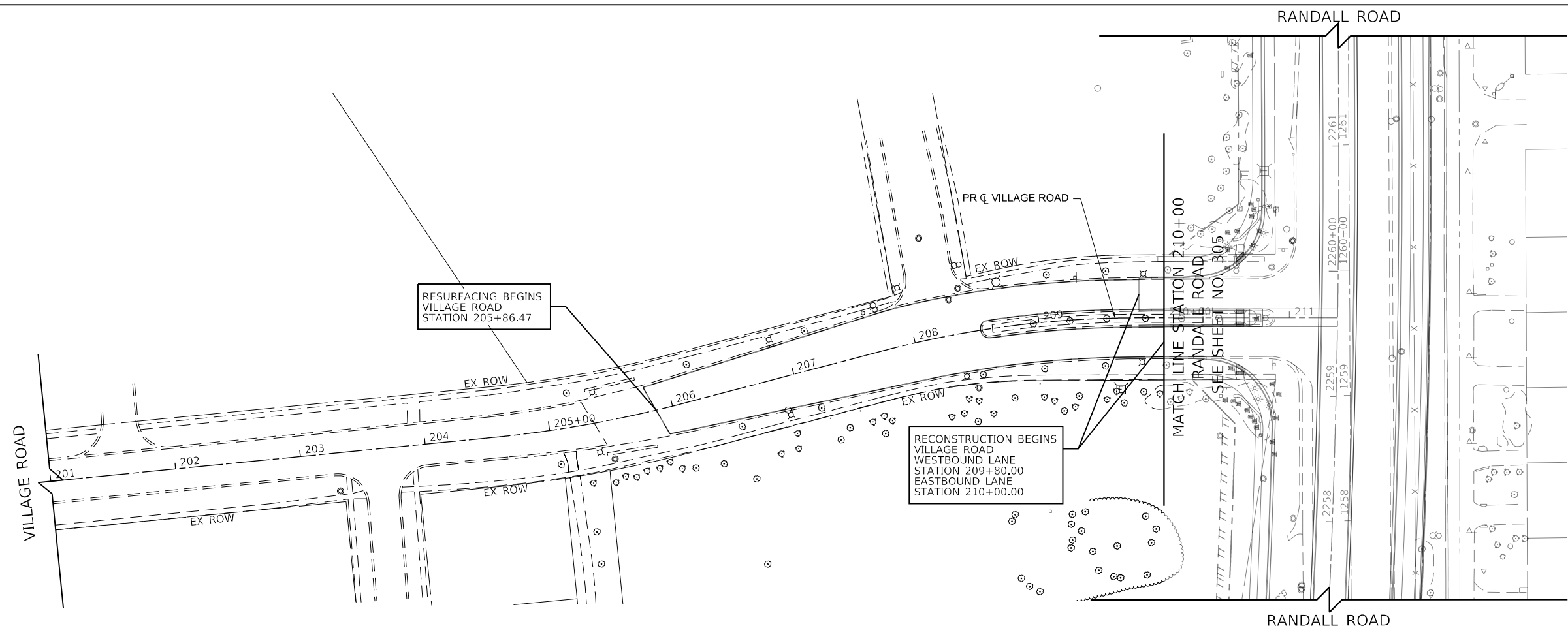
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

RANDALL ROAD EXISTING SIGNING PLAN
 SCALE: 1" = 50'
 SHEET 4 OF 20 SHEETS
 STA. 2275+00 TO STA. 2299+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	306
				CONTRACT NO. 61J93
ILLINOIS		FED. AID PROJECT		



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LEGEND

- EXISTING SIGN LOCATION
- PROPOSED SIGN LOCATION
- EXX-XX EXISTING SIGN PANEL AND POST TO REMAIN
- EX-XX EXISTING SIGN PANEL ASSEMBLY TO BE REMOVED
- EX-XX* BY OTHERS EXISTING SIGN TO BE RELOCATED BY OTHERS
- EX-XX* EXISTING SIGN PANEL ASSEMBLY TO BE RELOCATED ON NEW POST
- SXX-XX PROPOSED SIGN PANEL AND POST
- SXX-XX* PROPOSED LOCATION OF RELOCATED SIGN PANEL ASSEMBLY



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PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

VILLAGE ROAD EXISTING SIGNING PLAN

SCALE: 1" = 50' SHEET 7 OF 20 SHEETS STA. 201+00 TO STA. 211+38.41

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	309
				CONTRACT NO. 61J93
ILLINOIS FED. AID PROJECT				



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LOCATION NUMBER	SIGN NUMBER	MUTCD CODE	PANEL DESCRIPTION	SIGN SUPPORT	SUPPORT MATERIAL TYPE	STATION	OFFSET		ACTION	EXISTING WIDTH (IN)	EXISTING HEIGHT (IN)	EXISTING SIGN PANEL (SQ FT)	REMOVE SIGN PANEL ASSEMBLY (EACH)		REMOVE SIGN PANEL (SQ FT)		RELOCATE SIGN PANEL ASSEMBLY (EACH)	
													TYPE A 72400100	TYPE B 72400200	TYPE 1 72400310	TYPE 2 72400320	TYPE A 72400500	TYPE B 72400600
4-1	E4-1	D3-1	MILLER RD	POST MOUNTED (GROUND)	TELESCOPING STEEL	2251+64	23.3'	LT	SIGN PANEL ASSEMBLY TO BE REMOVED	60	18	7.5	1					
4-2	E4-2	R3-8	INTERSECTIONLANE CONTROL	POST MOUNTED (GROUND)	TELESCOPING STEEL	2254+77	73.5'	RT	SIGN PANEL ASSEMBLY TO BE REMOVED	36	30	7.5	1					
4-3	E4-3	---	THE VILLAGES	CONCRETE	---	2258+91	70.0'	LT	SIGN TO REMAIN			0.0						
4-4	E4-4	R1-1	STOP	POST MOUNTED (GROUND)	TELESCOPING STEEL	2259+24	60.4'	LT	SIGN PANEL ASSEMBLY TO BE REMOVED	36	36	9.0	1					
4-5	E4-5	D3-1	RANDALL RD	POST MOUNTED (GROUND)	TELESCOPING STEEL	2260+16	44.0'	LT	SIGN PANEL ASSEMBLY TO BE REMOVED	42	9	2.6	1					
		D3-1	VILLAGE RD							30	9	1.9						
4-6	E4-6	---	THE VILLAGES	CONCRETE	---	2260+31	73.8'	LT	SIGN TO REMAIN			0.0						
5-1	E5-1	W1-4R	REVERSE CURVE	POST MOUNTED (GROUND)	TELESCOPING STEEL	2263+52	56.3'	RT	SIGN PANEL ASSEMBLY TO BE REMOVED	36	36	9.0	1					
5-2	E5-2	W1-7	LARGE ARROW (TWO DIRECTIONS)	POST MOUNTED (GROUND)	TELESCOPING STEEL	2269+91	81.1'	RT	SIGN PANEL ASSEMBLY TO REMAIN	48	24	8.0						
		W1-7	LARGE ARROW (TWO DIRECTIONS)							48	24	8.0						
5-3	E5-3	---	EXCESSIVE ENGINE BREAKING NOISE PROHIBITED	POST MOUNTED (GROUND)	TELESCOPING STEEL	2269+84	58.4'	LT	SIGN PANEL ASSEMBLY TO BE RELOCATED WITH NEW POST	30	36	7.5					1	
		---	NEXT 1.5 MILES							30	6	1.3						
5-4	E5-4	---	CRYSTAL LAKE	CONCRETE	---	2272+73	65.5'	RT	TO BE RELOCATED BY OTHERS			0.0						
5-5	E5-5	R1-1	STOP	POST MOUNTED (GROUND)	TELESCOPING STEEL	2272+99	71.4'	RT	SIGN PANEL ASSEMBLY TO BE REMOVED	30	30	6.3	1					
5-6	E5-6	R3-5R	RIGHT TURN ONLY	LIGHT POLE	TELESCOPING STEEL	2273+07	85.7'	LT	SIGN PANEL ASSEMBLY TO BE REMOVED	24	30	5.0	1					
5-7	E5-7	R3-1	NO LEFT TURN	POST MOUNTED (GROUND)	TELESCOPING STEEL	2273+34	71.6'	LT	SIGN PANEL ASSEMBLY TO BE REMOVED	24	24	4.0	1					
5-8	E5-8	D3-1	RANDALL RD	POST MOUNTED (GROUND)	TELESCOPING STEEL	2273+79	61.8'	LT	SIGN PANEL ASSEMBLY TO BE REMOVED	36	12	3.0	1					
			ANGELA LN							36	12	3.0						
5-9	E5-9		BLANK	POST MOUNTED (GROUND)	METAL	2271+41	87.9'	LT	SIGN TO REMAIN			0.0						
5-10	E5-10		FOR LEASE	POST MOUNTED (GROUND)	METAL	2271+83	87.9'	LT	SIGN TO REMAIN			0.0						
5-11	E5-11		RANDALL PLAZA	BRICK	---	2272+83	110.4'	LT	SIGN TO REMAIN			0.0						
												SUBTOTAL	9	0	0	0	1	0

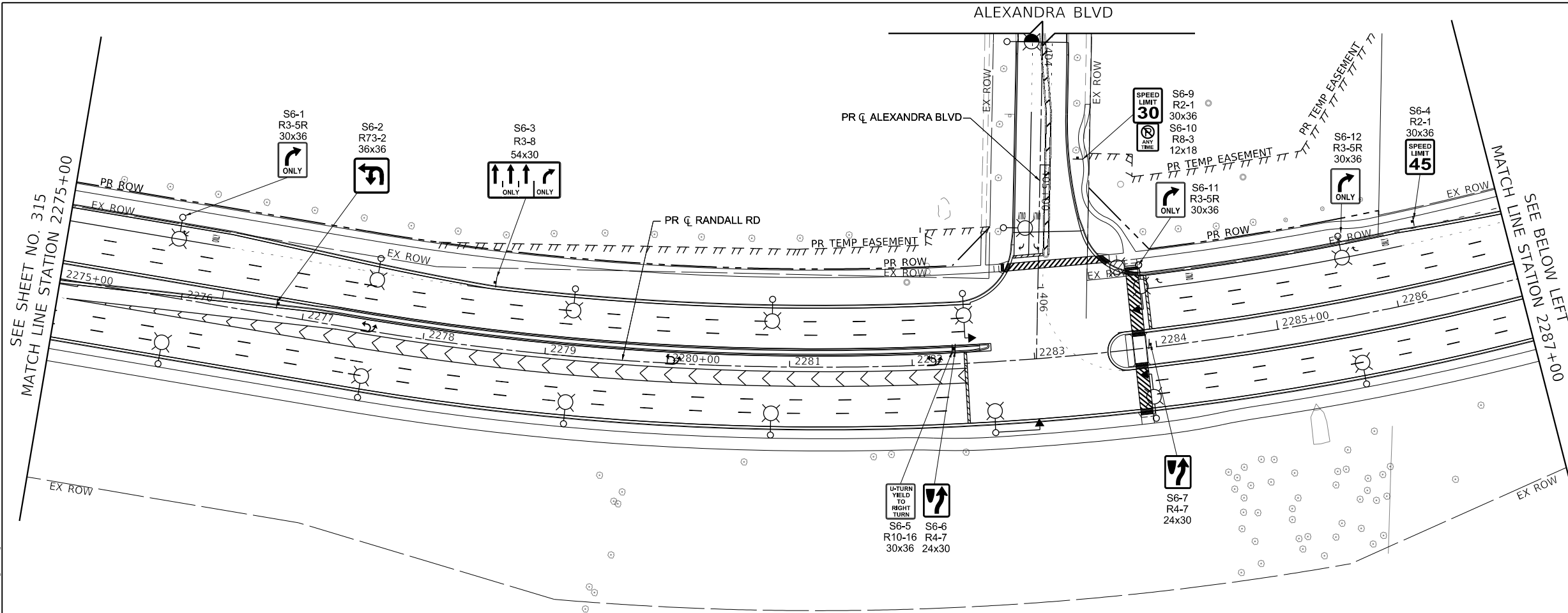
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PLOT DATE = 6/12/2024	DATE = 6/14/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING SIGNING SCHEDULE

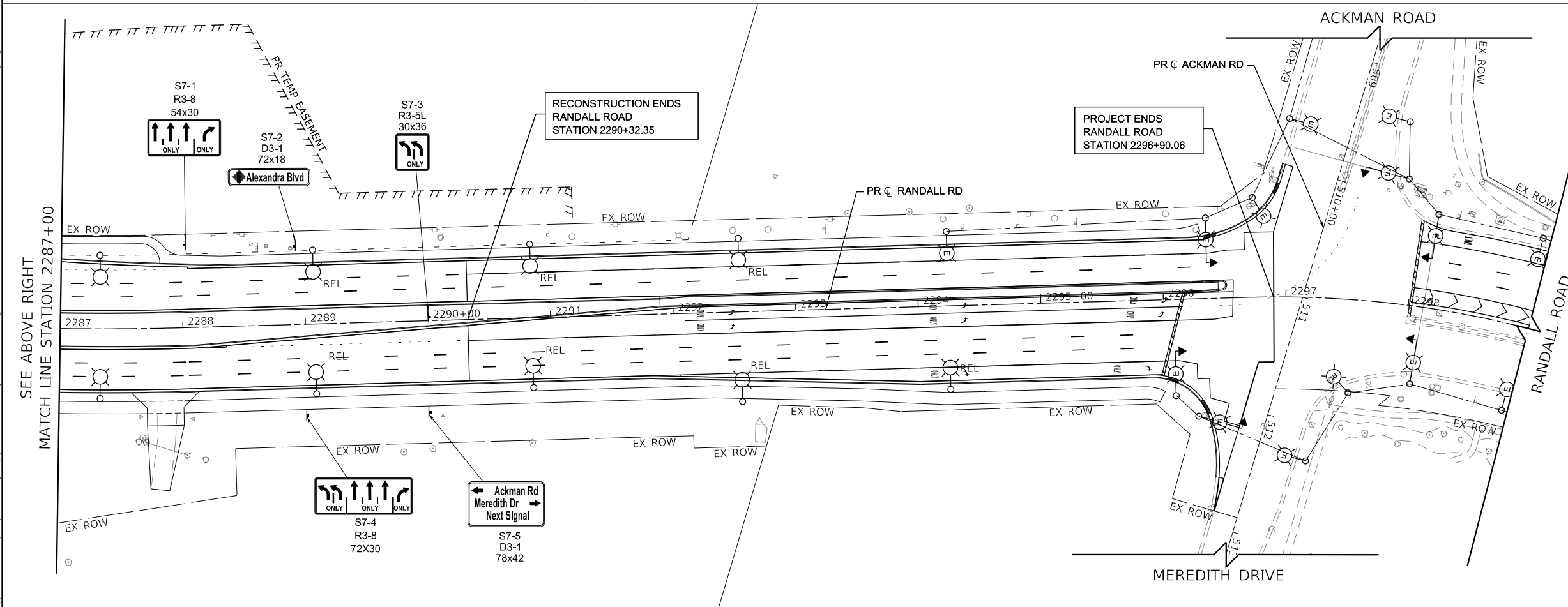
SCALE: SHEET 9 OF 20 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	311
CONTRACT NO. 61J93			ILLINOIS FED. AID PROJECT	



LEGEND

	EXISTING SIGN LOCATION
	PROPOSED SIGN LOCATION
	EXX-XX EXISTING SIGN PANEL AND POST TO REMAIN
	EX-XX EXISTING SIGN PANEL ASSEMBLY TO BE REMOVED
	EX-XX BY OTHERS EXISTING SIGN TO BE RELOCATED BY OTHERS
	EX-XX EXISTING SIGN PANEL ASSEMBLY TO BE RELOCATED ON NEW POST
	SXX-XX PROPOSED SIGN PANEL AND POST
	SXX-XX PROPOSED LOCATION OF RELOCATED SIGN PANEL ASSEMBLY



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PLOT SCALE = 100.0001' / in.	CHECKED - BLA	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

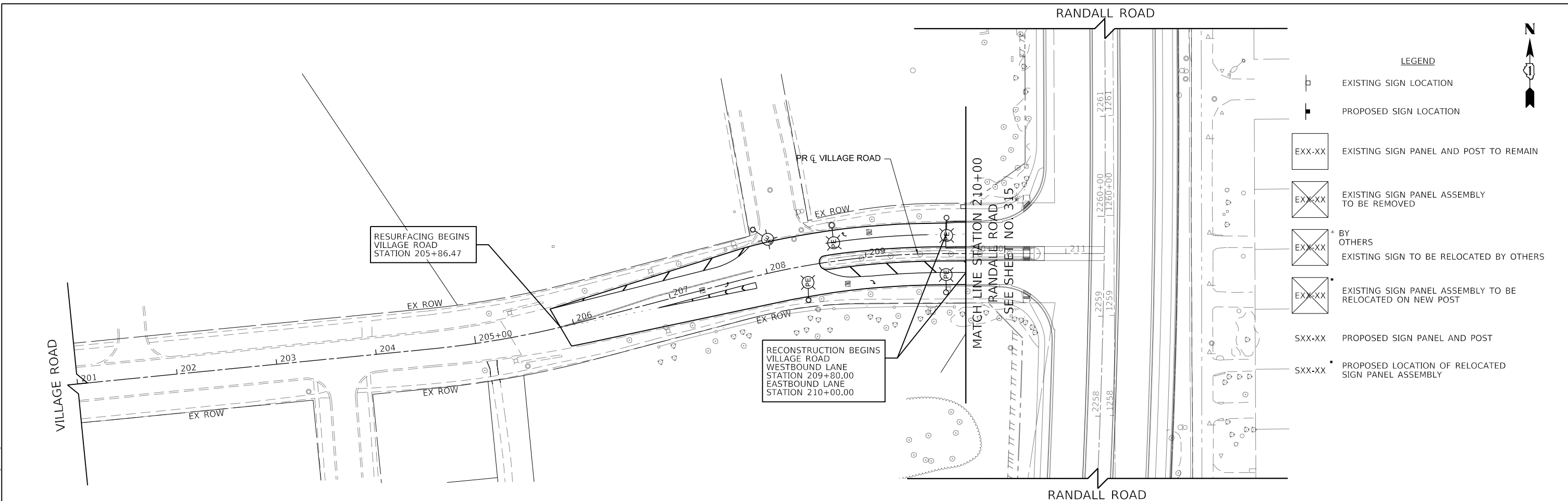
RANDALL ROAD PROPOSED SIGNING PLAN

SCALE: 1" = 50' SHEET 14 OF 20 SHEETS STA. 2275+00 TO STA. 2299+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	316
CONTRACT NO. 61J93			ILLINOIS FED. AID PROJECT	



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ALL EXISTING SIGNS WHICH HAVE BEEN REMOVED ARE TO BE DELIVERED TO MCHENRY COUNTY DIVISION OF TRANSPORTATION, 16111 NELSON RD, WOODSTOCK, IL 60098 OR TO AN APPLICABLE LOCAL AGENCY.

USER NAME = Mibeening	DESIGNED - BLA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	VILLAGE ROAD PROPOSED SIGNING PLAN			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D1XXXXX-sht-PrSign-07.dgn	DRAWN - BLA	REVISED -					336	06-00329-02-PW	MCHENRY	735	319
PLOT SCALE = 100.0000' / in.	CHECKED - BLA	REVISED -		SCALE: 1" = 50'			SHEET 17 OF 20 SHEETS			CONTRACT NO. 61J93	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -		STA. 201+00 TO STA. 211+38.41			ILLINOIS FED. AID PROJECT				



FILE NAME: p:\bl\blm\blm01\blm\transys\corp\pwa\Documents\Projects\CH401 - Chicago\940.113006\140.0000\44.0000\44.0000\Contract_215Sheet_Files\18_Signing_Plan\D1XXXXX-shr-PrSign-08.dgn

SIGN NUMBER	MUTCD CODE	PANEL DESCRIPTION	SIGN SUPPORT	ACTION	RELOCATE SIGN PANEL ASSEMBLY (EA)		PROPOSED STATION	PROPOSED OFFSET		PROPOSED WIDTH (IN)	PROPOSED HEIGHT (IN)	SIGN PANEL (SQ FT)		TELESCOPING SIGN SUPPORT (FT)	NUMBER OF POSTS
					TYPE A	TYPE B		TYPE 1	TYPE 2						
S1-1	R3-8	INTERSECTIONLANE CONTROL	POST MOUNTED (GROUND)	PROPOSED SIGN			2220+50	63.0'	LT	72	30		15	14.5	1
S1-2	D3-1	ACORN LN/POLARIS DR/NEXT SIGNAL	POST MOUNTED (GROUND)	REL. SIGN ASSEMBLY		1	2221+50	63.3'	LT	72	42		21	15.5	1
S1-3	D3-1	MILLER RD	POST MOUNTED (GROUND)	PROPOSED SIGN			2224+06	75.6'	RT	72	18	9		13.5	1
S1-4	R3-8	INTERSECTIONLANE CONTROL	POST MOUNTED (GROUND)	PROPOSED SIGN			2225+04	74.1'	RT	72	30		15	14.5	1
S1-5	R2-1	SPEED LIMIT45	POST MOUNTED (GROUND)	PROPOSED SIGN			2220+25	55.8'	RT	30	36	7.5		15	1
S1-6	R2-1	SPEED LIMIT45	POST MOUNTED (GROUND)	PROPOSED SIGN			2220+26	55.8'	RT	30	36	7.5		15	1
S2-1	R3-8	INTERSECTIONLANE CONTROL	POST MOUNTED (GROUND)	PROPOSED SIGN			2234+06	5.4'	RT	72	30		15	14.5	1
S2-2	R3-5L	MANDATORY MOVEMENT	POST MOUNTED (GROUND)	PROPOSED SIGN			2238+82	10.6'	LT	30	36	7.5		15	1
													0		
S3-1	R3-5R	MANDATORY MOVEMENT	LIGHT POLE	PROPOSED SIGN			2241+35	78.2'	RT	30	36	7.5		-	-
S3-2	R2-1	SPEED LIMIT45	LIGHT POLE	PROPOSED SIGN			2242+74	56.0'	LT	30	36	7.5		-	-
S3-3	R3-5R	MANDATORY MOVEMENT	SIGNAL POST (OFFSET BRACKET INSTAL	PROPOSED SIGN			2244+10	71.2'	RT	30	36	7.5		-	-
S3-4	R4-7	KEEP RIGHT	POST MOUNTED (GROUND)	PROPOSED SIGN			2244+10	11.2'	LT	24	30	5		14.5	1
S3-5	R3-5R	MANDATORY MOVEMENT	POST MOUNTED (GROUND)	PROPOSED SIGN			2244+52	114.3'	LT	30	36	7.5		15	1
S3-6	R3-6	MANDATORY MOVEMENT	POST MOUNTED (GROUND)	PROPOSED SIGN			2245+30	114.0'	RT	30	36	7.5		17.5	1
S3-7	R10-11	NO TURN ON RD	POST MOUNTED (GROUND)	PROPOSED SIGN			2245+30	114.0'	RT	24	30	5			
S3-8	R3-5R	MANDATORY MOVEMENT	SIGNAL POST	PROPOSED SIGN			2245+71	71.0'	LT	30	36	7.5		-	-
S3-9	R4-7	KEEP RIGHT	POST MOUNTED (GROUND)	PROPOSED SIGN			2245+71	5.5'	RT	24	30	5		17.5	1
S3-10	R10-16	U-TURN YIELD TO RIGHT TURN	POST MOUNTED (GROUND)	PROPOSED SIGN			2245+71	5.5'	RT	30	36	7.5			
S3-11	R2-1	SPEED LIMIT45	POST MOUNTED (GROUND)	PROPOSED SIGN			2246+53	56.1'	RT	30	36	7.5		15	1
S3-12	R3-5R	MANDATORY MOVEMENT	POST MOUNTED (GROUND)	PROPOSED SIGN			2248+76	65.7'	LT	30	36	7.5		15	1
S3-13	R73-2	MANDATORY MOVEMENT	POST MOUNTED (GROUND)	PROPOSED SIGN			2248+79	4.8'	RT	36	36	9		15	1
S3-14	R2-1	SPEED LIMIT40	POST MOUNTED (GROUND)	PROPOSED SIGN			2245+49	147.2'	LT	30	36	7.5		15	1
S3-15	---	OUTSIDE WATER USAGE CONSERVATION	POST MOUNTED (GROUND)	REL. SIGN ASSEMBLY (E8-2)	1		119+61	38.1'	RT	30	30	6.3		16	1
S3-16	R8-3	NO PARKING ON STREETS 2AM-6AM OR AFTER 1"SNOWFALL	POST MOUNTED (GROUND)	PROPOSED SIGN			119+61	38.1'	RT	12	18	1.5			
S4-1	D3-1	MILLER ROAD	POST MOUNTED (GROUND)	PROPOSED SIGN			2254+00	70.5'	LT	72	18	9		13.5	1
S4-2	R3-8	INTERSECTIONLANE CONTROL	POST MOUNTED (GROUND)	PROPOSED SIGN			2253+00	69.1'	LT	72	30		15	14.5	1
S4-3	R2-1	SPEED LIMIT45	POST MOUNTED (GROUND)	PROPOSED SIGN			2258+00	54.0'	LT	30	36	7.5		15	1
S4-4	R1-1	STOP SIGN	POST MOUNTED (GROUND)	PROPOSED SIGN						36	36	9			
S4-5	D3-1	RANDALL RD	POST MOUNTED (GROUND)	PROPOSED SIGN			2259+17	90.0'	LT	36	12	3		17.0	1
S4-6	D3-1	VILLAGE RD	POST MOUNTED (GROUND)	PROPOSED SIGN						36	12	3			
S4-7	R6-2R	ONE WAY	POST MOUNTED (GROUND)	PROPOSED SIGN			2259+21	110.0'	LT	30	36	7.5		17.5	1
S4-8	R3-5R	INTERSECTIONLANE CONTROL	POST MOUNTED (GROUND)	PROPOSED SIGN						36	30	7.5			
S4-9	R6-2R	ONE WAY	POST MOUNTED (GROUND)	PROPOSED SIGN			2259+03	5.0'	LT	30	36	7.5		15	1
S4-10	R4-7	KEEP RIGHT	POST MOUNTED (GROUND)	PROPOSED SIGN			2259+61	87.0'	LT	24	30	5		14.5	1
S4-11	R3-5R	MANDATORY MOVEMENT	LIGHT POLE	PROPOSED SIGN			2260+35	67.8'	LT	30	36	7.5		-	-
				SUBTOTAL:									204.75	81	365

USER NAME = Mibeening	DESIGNED -	REVISED -
D1XXXXX-shr-PrSign-08.dgn	DRAWN -	REVISED -
PLOT SCALE = 2,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/12/2024	DATE = 6/14/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED SIGNING SCHEDULE

SCALE: SHEET 18 OF 20 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	320
CONTRACT NO. 61J93			ILLINOIS FED. AID PROJECT	



FILE NAME: p:\bl\hpc\hnt01\p\et\transyscorp\comtransyscorp\p\bl\Documents\Projects\CH401 - Chicago\940113006\140.0000\44.0000\44.0000\Contract_2\Sheet_Files\18_Signing_Plan\D1XXXXX-shr-PrSign-09.dgn

SIGN NUMBER	MUTCD CODE	PANEL DESCRIPTION	SIGN SUPPORT	ACTION	RELOCATE SIGN PANEL ASSEMBLY (EA)		PROPOSED STATION	PROPOSED OFFSET		PROPOSED WIDTH (IN)	PROPOSED HEIGHT (IN)	SIGN PANEL (SO FT)		TELESCOPING SIGN SUPPORT (FT)	NUMBER OF POSTS	
					TYPE A	TYPE B		TYPE 1	TYPE 2							
S5-1	R3-5R	MANDATORY MOVEMENT	LIGHT POLE	PROPOSED SIGN			2263+65	65.1'	LT	30	36	7.5		-	-	
S5-2	W1-4R	REVERSE CURVE AHEAD	LIGHT POLE	PROPOSED SIGN			2263+85	55.0'	RT	36	36	9		-	-	
S5-3	R3-8	INTERSECTIONLANE CONTROL	POST MOUNTED (GROUND)	REL. SIGN ASSEMBLY			2265+09	73.4'	LT	54	30		11.25	14.5	1	
S5-4	R2-1	SPEED LIMIT45	LIGHT POLE	PROPOSED SIGN			2272+42	55.0'	RT	30	36	7.5		-	-	
S5-5	-	EXCESSIVE ENGINE BREAKING NOISE PROHIBITED NEXT 1.5 MILES	POST MOUNTED (GROUND)	REL. SIGN ASSEMBLY (E5-3)	1		2270+00	54.2'	RT	30	36	7.5		15.5	1	
										30	6	1.25				
S5-6	R2-1	SPEED LIMIT45	LIGHT POLE	PROPOSED SIGN			2270+42	55.0'	LT	30	36	7.5		-	-	
S5-7	R6-2R	ONE WAY	POST MOUNTED (GROUND)	PROPOSED SIGN			2272+73	7.6'	LT	30	36	7.5		15	1	
S5-8	R1-1	STOP SIGN	POST MOUNTED (GROUND)	PROPOSED SIGN			2273+03	90.4'	LT	36	36	9		17	1	
S5-9	D3-1	RANDALL RD	POST MOUNTED (GROUND)	PROPOSED SIGN						36	12	3				
S5-10	D3-1	Angela Ln	POST MOUNTED (GROUND)	PROPOSED SIGN						36	12	3				
S5-11	R6-2R	ONE WAY	POST MOUNTED (GROUND)	PROPOSED SIGN			2273+05	116.0'	LT	30	36	7.5		18	1	
S5-12	R3-5R	MANDATORY MOVEMENT	LIGHT POLE	PROPOSED SIGN			2274+25	66.0'	LT	30	36	7.5		-	-	
S5-13	R3-8	INTERSECTIONLANE CONTROL	POST MOUNTED (GROUND)	PROPOSED SIGN			2273+11	72.7'	RT	60	30	12.5		14.5	1	
S5-14	D3-1	ALEXANDRA BLVD	POST MOUNTED (GROUND)	PROPOSED SIGN			2274+11	72.8'	RT	72	18	9		13.5	1	
S6-1	R3-5R	MANDATORY MOVEMENT	LIGHT POLE	PROPOSED SIGN			2276+59	64.5'	LT	30	36	7.5		-	-	
S6-2	R73-2	INTERSECTIONLANE CONTROL	POST MOUNTED (GROUND)	PROPOSED SIGN			2276+79	4.2'	LT	36	36	9		15	1	
S6-3	R3-8	INTERSECTIONLANE CONTROL	POST MOUNTED (GROUND)	PROPOSED SIGN			2278+51	53.5'	LT	54	30		11.25	14.5	1	
S6-4	R2-1	SPEED LIMIT45	POST MOUNTED (GROUND)	PROPOSED SIGN			2286+25	65.5'	LT	30	36	7.5		15	1	
S6-5	R3-4	U-TURN YIELD TO RIGHT TURN	POST MOUNTED (GROUND)	PROPOSED SIGN			2282+34	13.0'	RT	30	36	7.5		17	1	
S6-6	R4-7	KEEP RIGHT	POST MOUNTED (GROUND)	PROPOSED SIGN						24	30	5				
S6-7	R4-7	KEEP RIGHT	POST MOUNTED (GROUND)	PROPOSED SIGN			2283+94	11.0'	RT	24	30	5		14.5	1	
S6-9	R2-1	SPEED LIMIT30	POST MOUNTED (GROUND)	PROPOSED SIGN			2283+48	160.1'	LT	30	36	7.5		16.5	1	
S6-10	R8-3	NO PARKING ANYTIME	POST MOUNTED (GROUND)	PROPOSED SIGN						12	18	1.5				
S6-11	R3-5R	MANDATORY MOVEMENT	LIGHT POLE	PROPOSED SIGN			2283+92	68.0'	LT	30	36	7.5		-	-	
S6-12	R3-5R	MANDATORY MOVEMENT	LIGHT POLE	PROPOSED SIGN			2285+62	66.0'	LT	30	36	7.5		-	-	
S7-1	R3-8	INTERSECTIONLANE CONTROL	POST MOUNTED (GROUND)	PROPOSED SIGN			2288+03	67.2'	LT	54	30		11.25	14.5	1	
S7-2	D3-1	ALEXANDRA BLVD	POST MOUNTED (GROUND)	PROPOSED SIGN			2288+93	61.8'	LT	72	18	9		13.5	1	
S7-3	R3-5L	INTERSECTIONLANE CONTROL	POST MOUNTED (GROUND)	REL. SIGN ASSEMBLY	1		2290+01	2.7'	LT	30	30	6.25		14.5	1	
S7-4	R3-8	INTERSECTIONLANE CONTROL	POST MOUNTED (GROUND)	REL. SIGN ASSEMBLY		1	2289+00	74.8'	RT	72	30		15	14.5	1	
S7-5	S7-5	ACKMAN RD/MEREDITH DR/NEXT SIGNAL	POST MOUNTED (GROUND)	REL. SIGN ASSEMBLY		1	2290+00	74.6'	RT	78	42		22.75	15.5	1	
S8-1	R3-8	INTERSECTIONLANE CONTROL	POST MOUNTED (GROUND)	PROPOSED SIGN			109+00	37.3'	RT	54	30		11.25	14.5	1	
S8-2	R3-8	INTERSECTIONLANE CONTROL	POST MOUNTED (GROUND)	PROPOSED SIGN			113+22	39.4'	RT	54	30		11.25	16	1	
S8-3	R8-3	NO PARKING ANYTIME	POST MOUNTED (GROUND)	PROPOSED SIGN						12	18	1.5				
S8-4	-	SUNSET PARK	POST MOUNTED (GROUND)	REL. SIGN ASSEMBLY (E8-5)	1		112+04	38.4'	LT	24	18	3		13.5	1	
S8-5	W4-2	LANE ENDS	POST MOUNTED (GROUND)	PROPOSED SIGN			113+30	37.7'	LT	36	36	9		15	1	
SUBTOTAL:					3	2							201	94	332	

USER NAME = Mibeening	DESIGNED -	REVISED -
D1XXXXX-shr-PrSign-09.dgn	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/12/2024	DATE = 6/14/2024	REVISED -

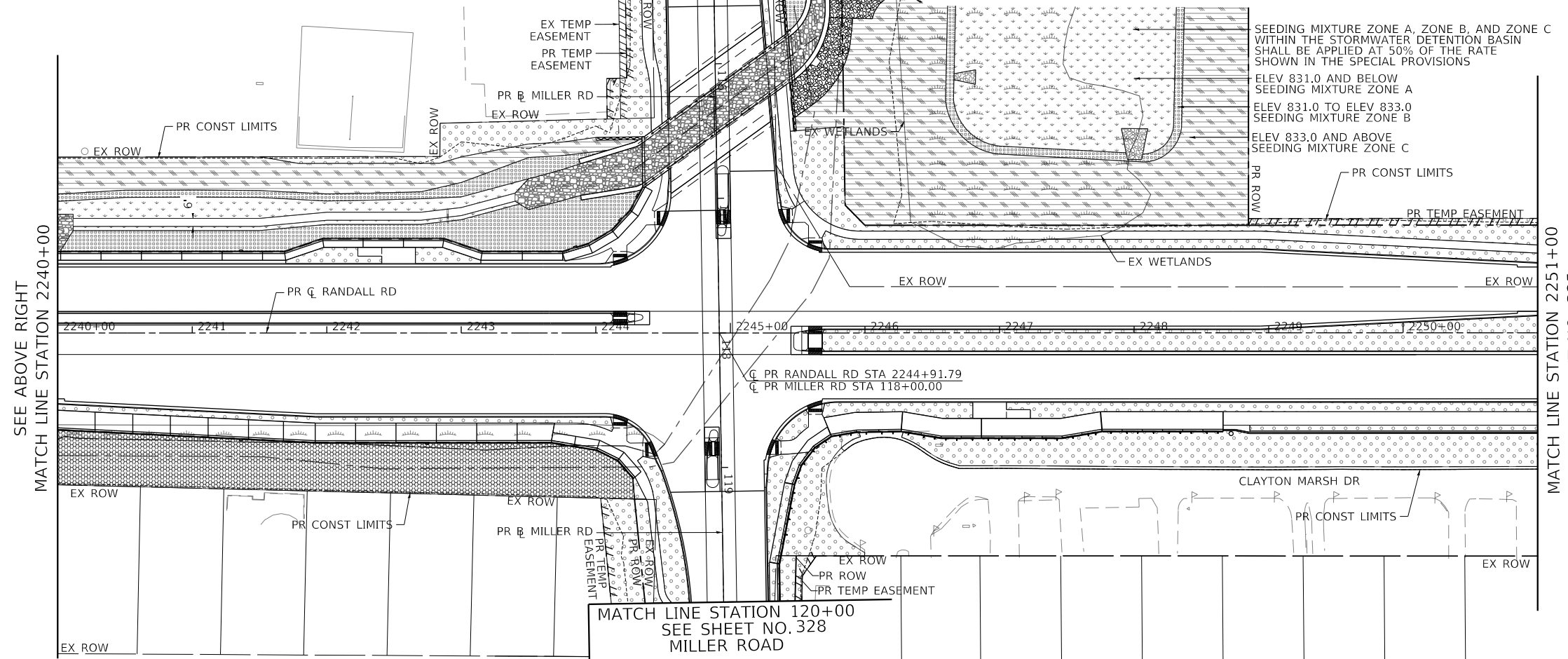
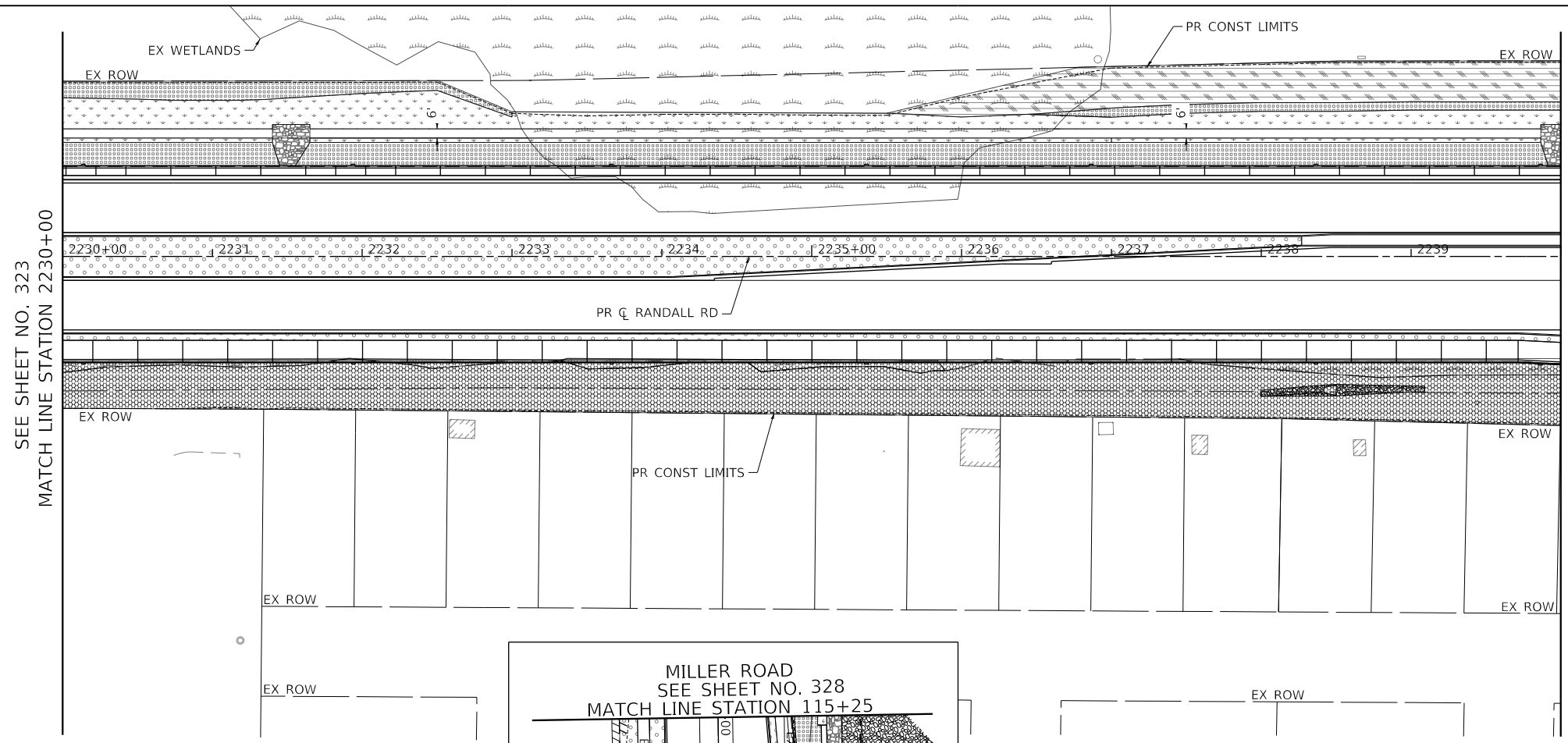
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED SIGNING SCHEDULE

SCALE: SHEET 19 OF 20 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	321
CONTRACT NO. 61J93			ILLINOIS FED. AID PROJECT	

FILE NAME: p:\projects\101-2-a-ct-transyscorp.com\transyscorp\11\Documents\Projects\CH401 - Chicago\140.0000\44.0000\44.0000\Contract_25\Sheet_Files\19_Landscaping_Detail\01XXXX-sht-Indscp-02.dgn



LEGEND

- SEEDING, SALT TOLERANT CLASS 2A NITROGEN AND POTASSIUM FERTILIZER NUTRIENT EROSION CONTROL BLANKET
- SEEDING MIXTURE, CLASS 4A & 4B EACH CLASS APPLIED AT 50% OF NORMAL RATE EROSION CONTROL BLANKET
- SEEDING MIXTURE, CLASS 4A, 4B, 5A & 5B EACH CLASS APPLIED AT 25% OF NORMAL RATE EROSION CONTROL BLANKET OR HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING MIXTURE ZONE A HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING MIXTURE ZONE B EROSION CONTROL BLANKET
- SEEDING MIXTURE ZONE C EROSION CONTROL BLANKET
- LANDSCAPE MEDIAN PLANTING (ZONE 1) FOR DETAIL SEE SHEET NO. 332
- LANDSCAPING MEDIAN PLANTING (ZONE 2) FOR DETAIL SEE SHEET NO. 332
- SEEDING NO MOW EROSION CONTROL BLANKET
- RIVER ROCK
- RIPRAP (CLASS AS SPECIFIED)
- ARTICULATED BLOCK REVETMENT MAT
- PROPOSED TREE
- PROPOSED SHRUB

- NOTES:**
- FOR TOPSOIL THICKNESS, SEE TYPICAL SECTIONS ON SHEETS 52 THRU 56
 - IMPORT TOPSOIL FROM OFFSITE SOURCES. OBTAIN TOPSOIL DISPLACED FROM NATURALLY WELL-DRAINED CONSTRUCTION OR MINING SITES WHERE TOPSOIL OCCURS AT LEAST 4 INCHES DEEP; DO NOT OBTAIN FROM AGRICULTURAL LAND, BOGS OR MARSHES.

USER NAME = Mibeening	DESIGNED - WBL	REVISED -
D1XXXX-sht-Indscp-02.dgn	DRAWN - MLB	REVISED -
PLOT SCALE = 100.0001' / in.	CHECKED - JLJ	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

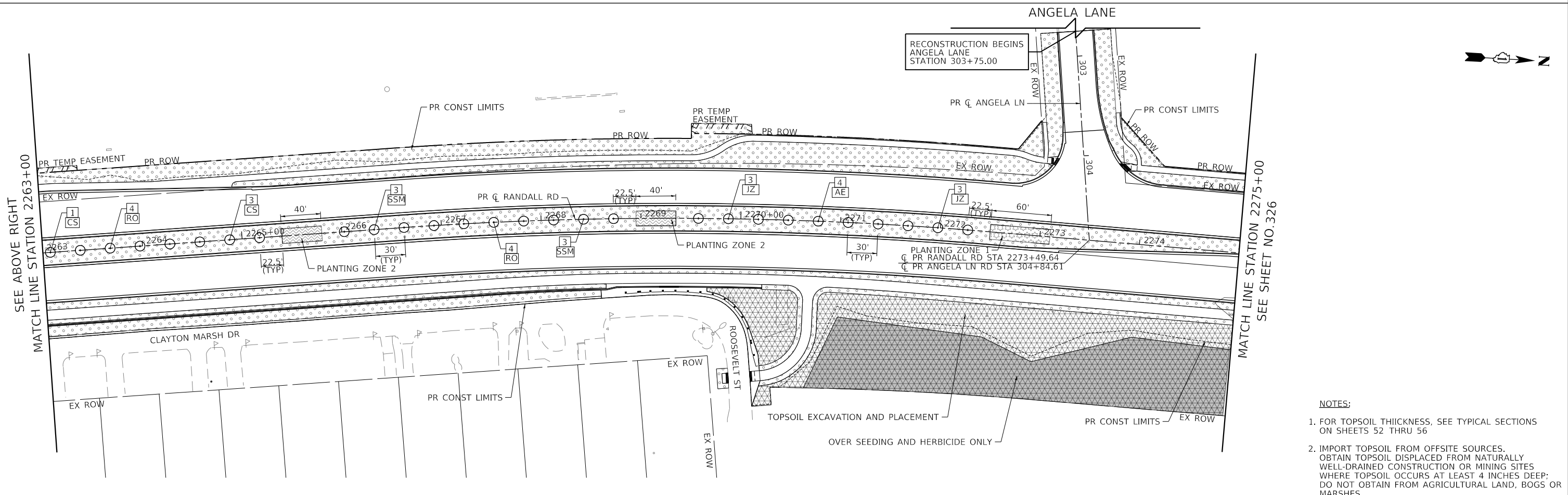
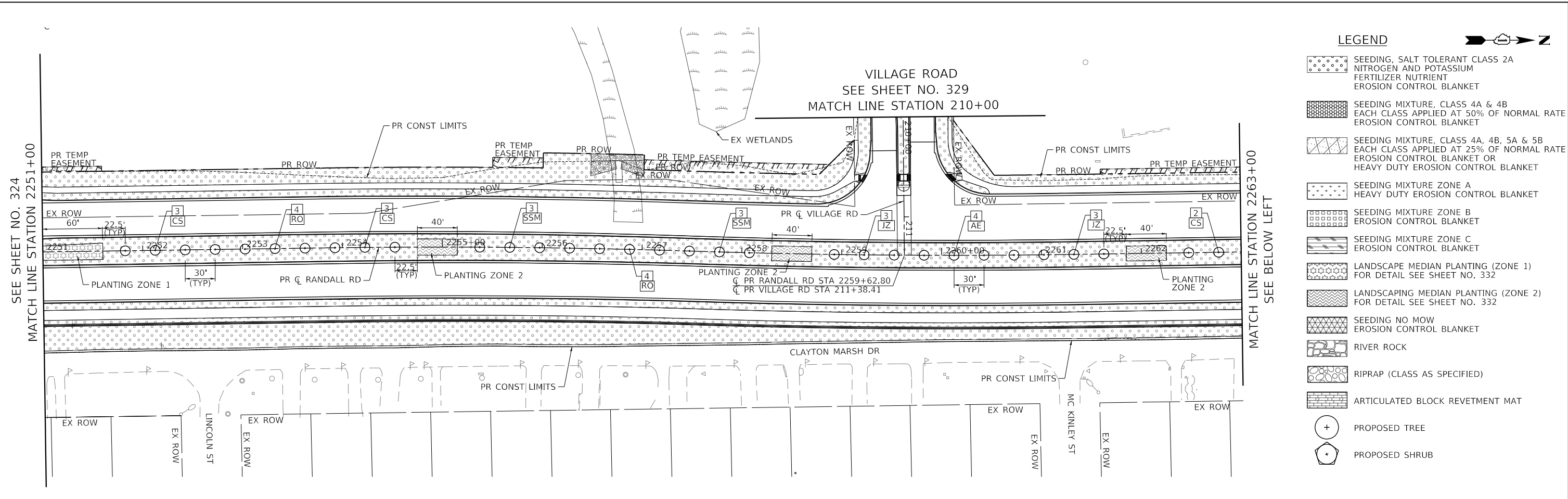
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

RANDALL ROAD LANDSCAPING PLAN

SCALE: 1" = 50' SHEET 2 OF 11 SHEETS STA. 2230+00 TO STA. 2251+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	324
				CONTRACT NO. 61J93
		ILLINOIS	FED. AID PROJECT	

FILE NAME: p:\projects\101-actransyscorp\11documents\11documents\project\ch401 - Chicago\113006\110000044\000044\000000\Contract_215\sheet_files\11_Landscaping_Detailed\01XXXX-sh-Indscp-03.dgn



LEGEND

- SEEDING, SALT TOLERANT CLASS 2A NITROGEN AND POTASSIUM FERTILIZER NUTRIENT EROSION CONTROL BLANKET
- SEEDING MIXTURE, CLASS 4A & 4B EACH CLASS APPLIED AT 50% OF NORMAL RATE EROSION CONTROL BLANKET
- SEEDING MIXTURE, CLASS 4A, 4B, 5A & 5B EACH CLASS APPLIED AT 25% OF NORMAL RATE EROSION CONTROL BLANKET OR HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING MIXTURE ZONE A HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING MIXTURE ZONE B EROSION CONTROL BLANKET
- SEEDING MIXTURE ZONE C EROSION CONTROL BLANKET
- LANDSCAPE MEDIAN PLANTING (ZONE 1) FOR DETAIL SEE SHEET NO. 332
- LANDSCAPING MEDIAN PLANTING (ZONE 2) FOR DETAIL SEE SHEET NO. 332
- SEEDING NO MOW EROSION CONTROL BLANKET
- RIVER ROCK
- RIPRAP (CLASS AS SPECIFIED)
- ARTICULATED BLOCK REVETMENT MAT
- PROPOSED TREE
- PROPOSED SHRUB

- NOTES:**
- FOR TOPSOIL THICKNESS, SEE TYPICAL SECTIONS ON SHEETS 52 THRU 56
 - IMPORT TOPSOIL FROM OFFSITE SOURCES. OBTAIN TOPSOIL DISPLACED FROM NATURALLY WELL-DRAINED CONSTRUCTION OR MINING SITES WHERE TOPSOIL OCCURS AT LEAST 4 INCHES DEEP; DO NOT OBTAIN FROM AGRICULTURAL LAND, BOGS OR MARSHES.

USER NAME = Mibeening	DESIGNED - WBL	REVISED -
D:\XXXXX-sht-Indscp-03.dgn	DRAWN - MLB	REVISED -
PLOT SCALE = 100,000.1' / in.	CHECKED - JLV	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**















RANDALL ROAD LANDSCAPING PLAN

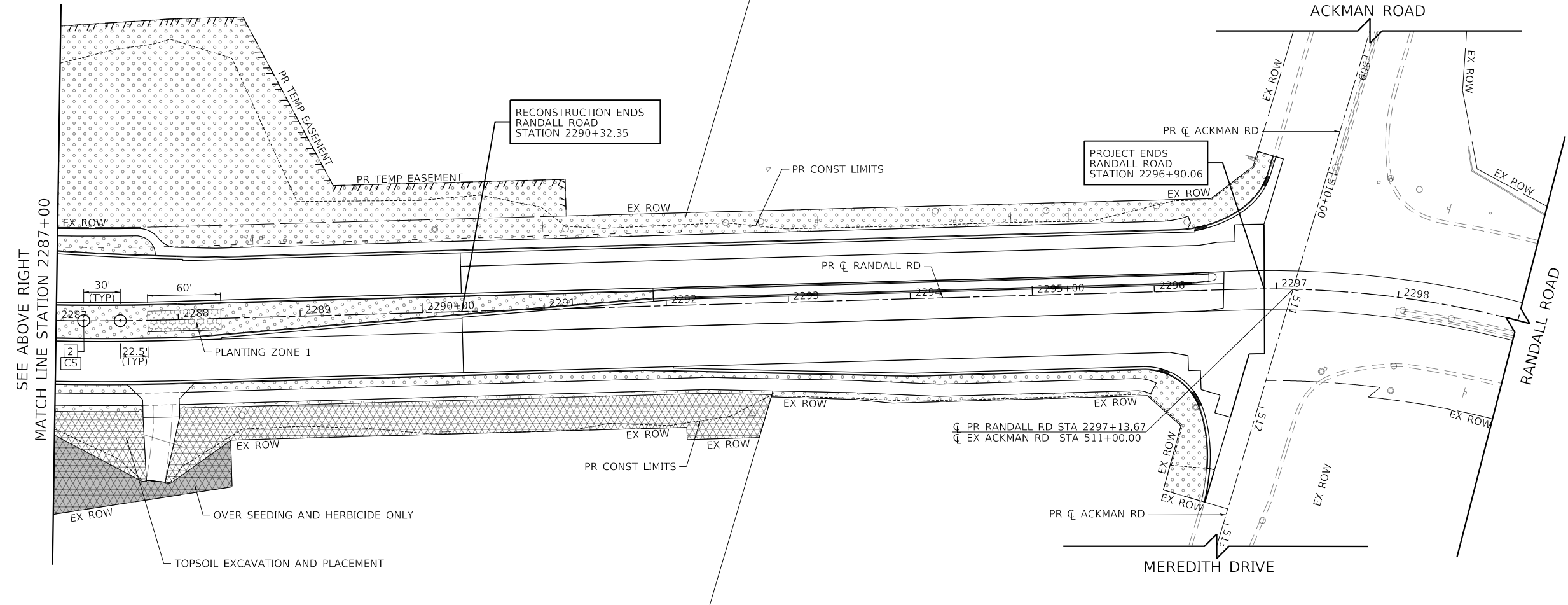
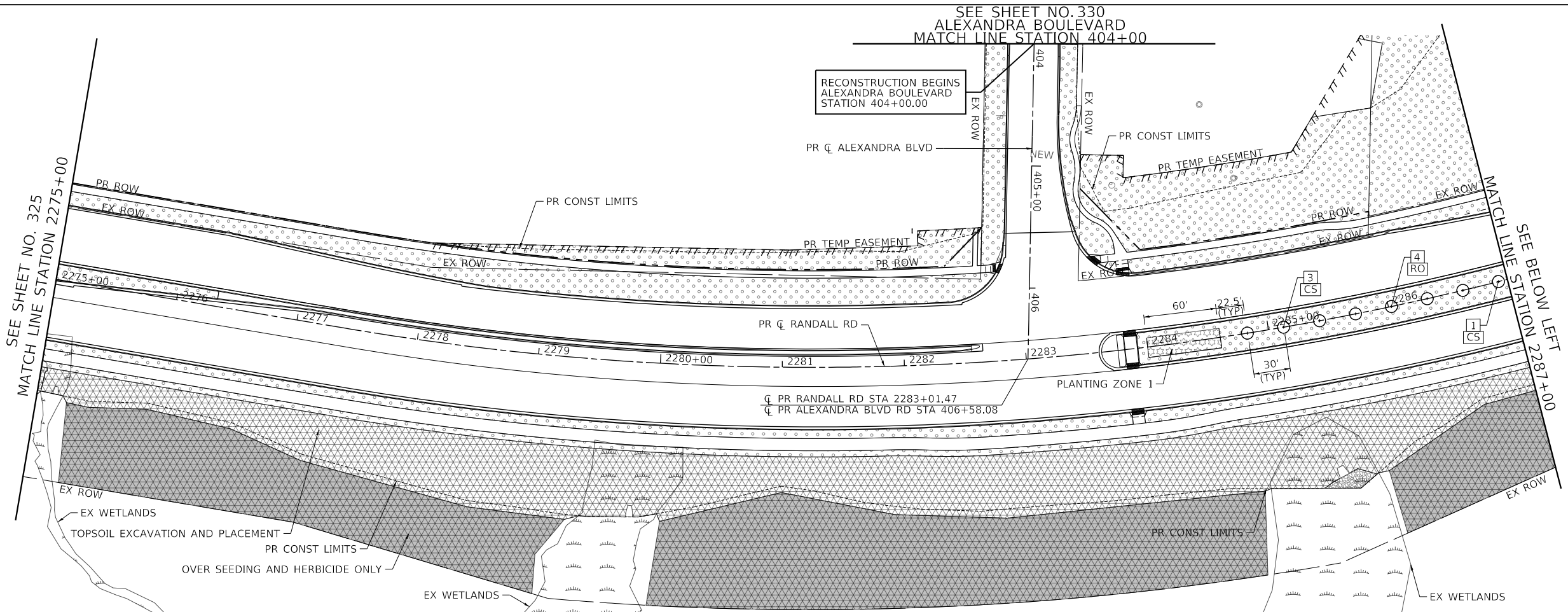
SCALE: 1" = 50' SHEET 3 OF 11 SHEETS STA. 2251+00 TO STA. 2275+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	325
				CONTRACT NO. 61J93
		ILLINOIS	FED. AID PROJECT	

SEE SHEET NO. 330
ALEXANDRA BOULEVARD
MATCH LINE STATION 404+00

LEGEND

-  SEEDING, SALT TOLERANT CLASS 2A NITROGEN AND POTASSIUM FERTILIZER NUTRIENT EROSION CONTROL BLANKET
-  SEEDING MIXTURE, CLASS 4A & 4B EACH CLASS APPLIED AT 50% OF NORMAL RATE EROSION CONTROL BLANKET
-  SEEDING MIXTURE, CLASS 4A, 4B, 5A & 5B EACH CLASS APPLIED AT 25% OF NORMAL RATE EROSION CONTROL BLANKET OR HEAVY DUTY EROSION CONTROL BLANKET
-  SEEDING MIXTURE ZONE A HEAVY DUTY EROSION CONTROL BLANKET
-  SEEDING MIXTURE ZONE B EROSION CONTROL BLANKET
-  SEEDING MIXTURE ZONE C EROSION CONTROL BLANKET
-  LANDSCAPE MEDIAN PLANTING (ZONE 1) FOR DETAIL SEE SHEET NO. 332
-  LANDSCAPING MEDIAN PLANTING (ZONE 2) FOR DETAIL SEE SHEET NO. 332
-  SEEDING NO MOW EROSION CONTROL BLANKET
-  RIVER ROCK
-  RIPRAP (CLASS AS SPECIFIED)
-  ARTICULATED BLOCK REVETMENT MAT
-  PROPOSED TREE
-  PROPOSED SHRUB



- NOTES:
- FOR TOPSOIL THICKNESS, SEE TYPICAL SECTIONS ON SHEETS 52 THRU 56
 - IMPORT TOPSOIL FROM OFFSITE SOURCES. OBTAIN TOPSOIL DISPLACED FROM NATURALLY WELL-DRAINED CONSTRUCTION OR MINING SITES WHERE TOPSOIL OCCURS AT LEAST 4 INCHES DEEP; DO NOT OBTAIN FROM AGRICULTURAL LAND, BOGS OR MARSHES.

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAMBURG, ILLINOIS 60173
(847) 605-9600

USER NAME = Mibeening	DESIGNED - WBL	REVISED -
D:\XXXXX-sht-Indscp-04.dgn	DRAWN - MLB	REVISED -
PLOT SCALE = 100.0001' / in.	CHECKED - JLV	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

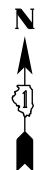
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RANDALL ROAD LANDSCAPING PLAN















SCALE: 1" = 50' SHEET 4 OF 11 SHEETS STA. 2275+00 TO STA. 2299+00

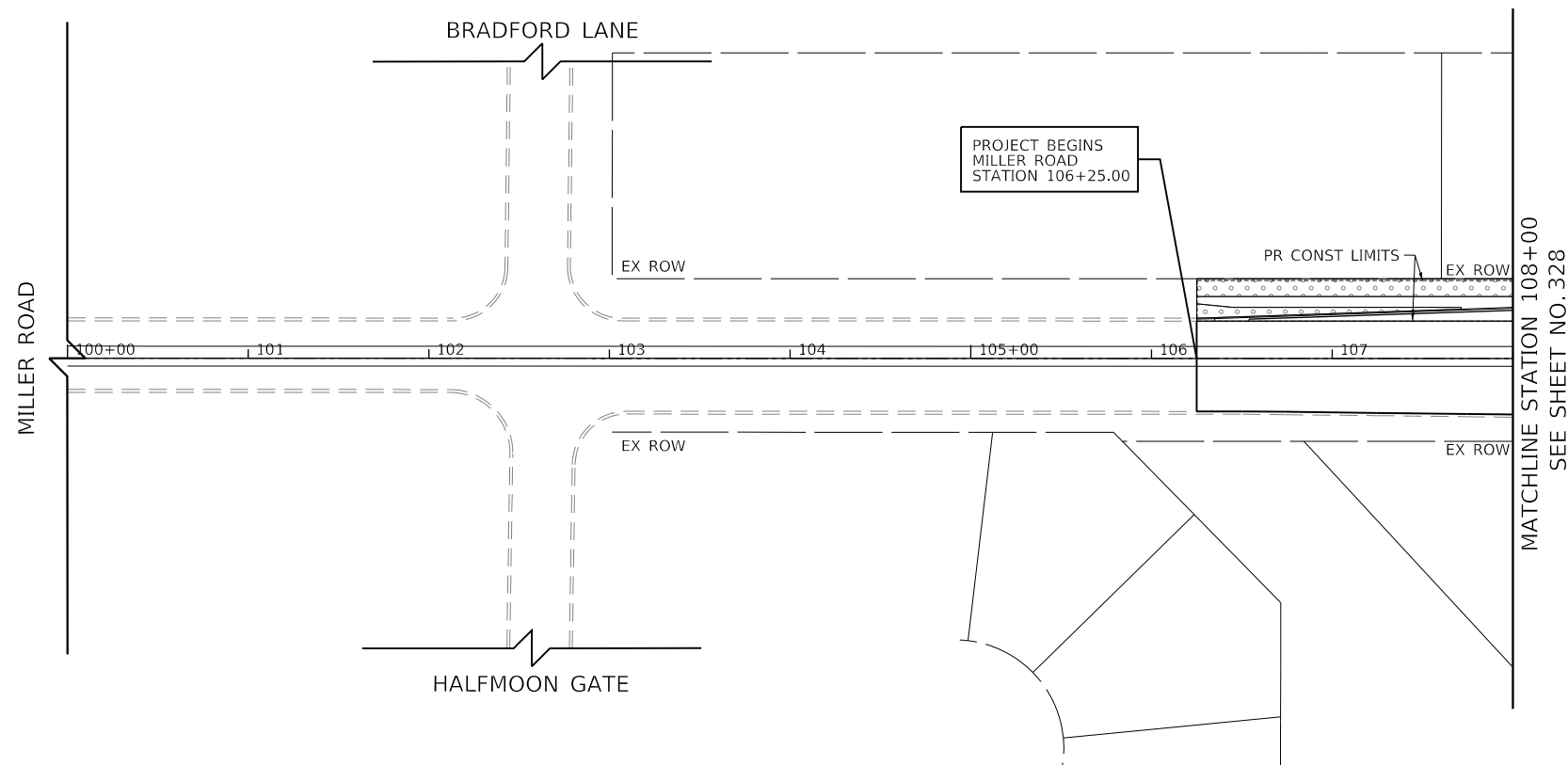
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336	06-00329-02-PW	MCHENRY	735	326
				CONTRACT NO. 61J93
ILLINOIS FED. AID PROJECT				

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LEGEND

-  SEEDING, SALT TOLERANT CLASS 2A
NITROGEN AND POTASSIUM
FERTILIZER NUTRIENT
EROSION CONTROL BLANKET
-  SEEDING MIXTURE, CLASS 4A & 4B
EACH CLASS APPLIED AT 50% OF NORMAL RATE
EROSION CONTROL BLANKET
-  SEEDING MIXTURE, CLASS 4A, 4B, 5A & 5B
EACH CLASS APPLIED AT 25% OF NORMAL RATE
EROSION CONTROL BLANKET OR
HEAVY DUTY EROSION CONTROL BLANKET
-  SEEDING MIXTURE ZONE A
HEAVY DUTY EROSION CONTROL BLANKET
-  SEEDING MIXTURE ZONE B
EROSION CONTROL BLANKET
-  SEEDING MIXTURE ZONE C
EROSION CONTROL BLANKET
-  LANDSCAPE MEDIAN PLANTING (ZONE 1)
FOR DETAIL SEE SHEET NO. 332
-  LANDSCAPING MEDIAN PLANTING (ZONE 2)
FOR DETAIL SEE SHEET NO. 332
-  SEEDING NO MOW
EROSION CONTROL BLANKET
-  RIVER ROCK
-  RIPRAP (CLASS AS SPECIFIED)
-  ARTICULATED BLOCK REVETMENT MAT
-  PROPOSED TREE
-  PROPOSED SHRUB



NOTES:

1. FOR TOPSOIL THICKNESS, SEE TYPICAL SECTIONS ON SHEETS 52 THRU 56
2. IMPORT TOPSOIL FROM OFFSITE SOURCES. OBTAIN TOPSOIL DISPLACED FROM NATURALLY WELL-DRAINED CONSTRUCTION OR MINING SITES WHERE TOPSOIL OCCURS AT LEAST 4 INCHES DEEP; DO NOT OBTAIN FROM AGRICULTURAL LAND, BOGS OR MARSHES.

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 SCHAMBURG, ILLINOIS 60173
 (847) 605-9600

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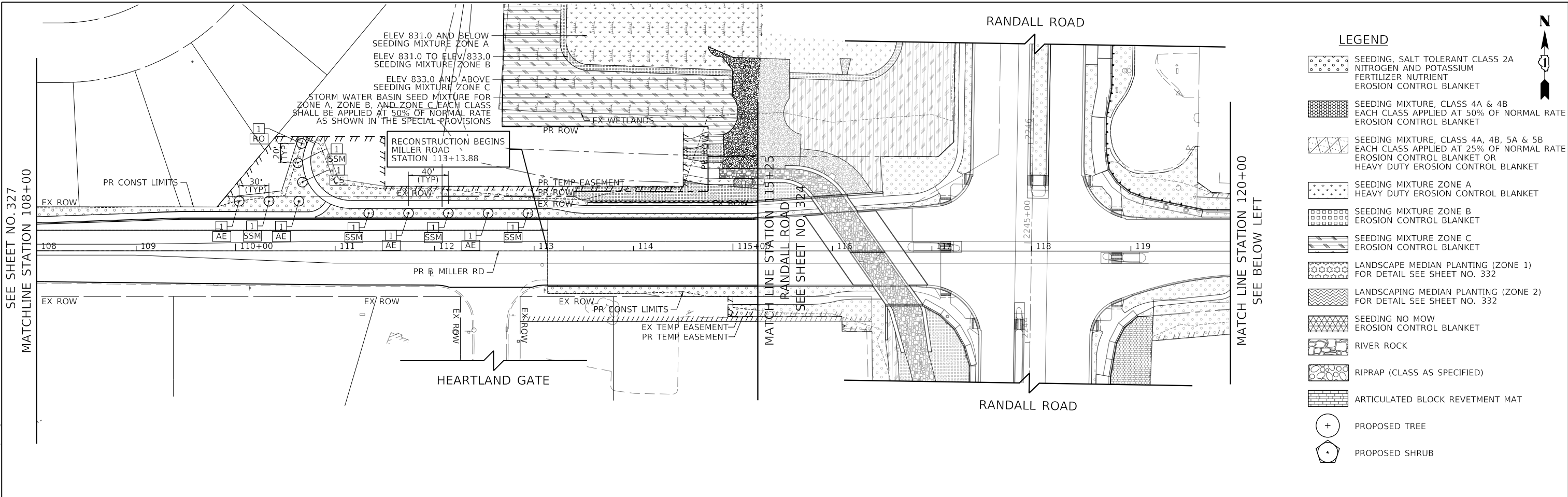
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

MILLER ROAD LANDSCAPING PLAN

SCALE: 1" = 50' SHEET 5 OF 11 SHEETS STA. 100+00 TO STA. 108+00

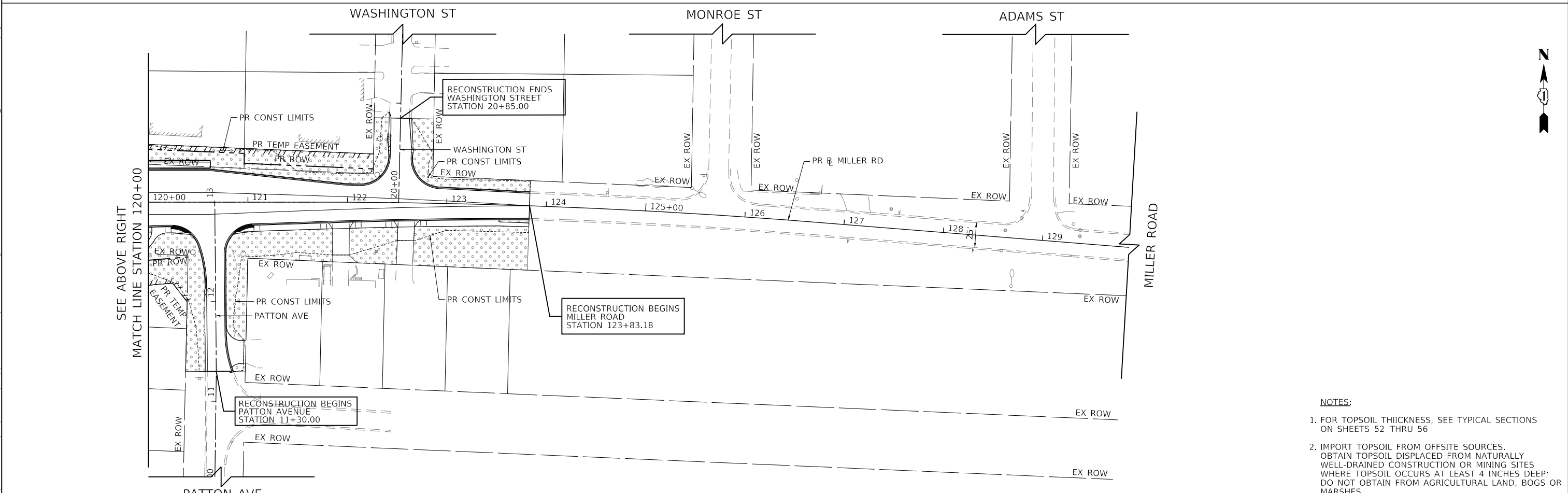
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336	06-00329-02-PW	MCHENRY	735	327
			CONTRACT NO. 61J93	
		ILLINOIS	FED. AID PROJECT	

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LEGEND

- SEEDING, SALT TOLERANT CLASS 2A NITROGEN AND POTASSIUM FERTILIZER NUTRIENT EROSION CONTROL BLANKET
- SEEDING MIXTURE, CLASS 4A & 4B EACH CLASS APPLIED AT 50% OF NORMAL RATE EROSION CONTROL BLANKET
- SEEDING MIXTURE, CLASS 4A, 4B, 5A & 5B EACH CLASS APPLIED AT 25% OF NORMAL RATE EROSION CONTROL BLANKET OR HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING MIXTURE ZONE A HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING MIXTURE ZONE B EROSION CONTROL BLANKET
- SEEDING MIXTURE ZONE C EROSION CONTROL BLANKET
- LANDSCAPE MEDIAN PLANTING (ZONE 1) FOR DETAIL SEE SHEET NO. 332
- LANDSCAPING MEDIAN PLANTING (ZONE 2) FOR DETAIL SEE SHEET NO. 332
- SEEDING NO MOW EROSION CONTROL BLANKET
- RIVER ROCK
- RIPRAP (CLASS AS SPECIFIED)
- ARTICULATED BLOCK REVETMENT MAT
- PROPOSED TREE
- PROPOSED SHRUB



- NOTES:**
- FOR TOPSOIL THICKNESS, SEE TYPICAL SECTIONS ON SHEETS 52 THRU 56
 - IMPORT TOPSOIL FROM OFFSITE SOURCES. OBTAIN TOPSOIL DISPLACED FROM NATURALLY WELL-DRAINED CONSTRUCTION OR MINING SITES WHERE TOPSOIL OCCURS AT LEAST 4 INCHES DEEP; DO NOT OBTAIN FROM AGRICULTURAL LAND, BOGS OR MARSHES.

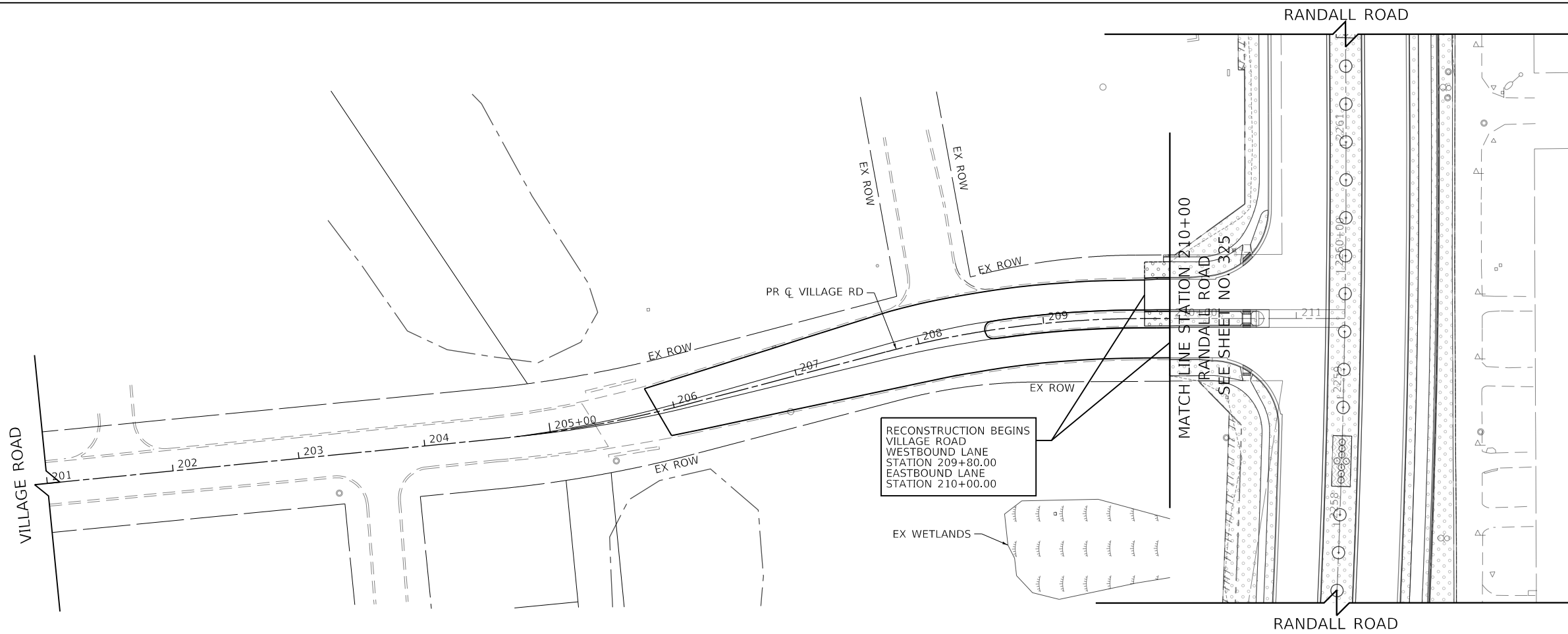
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PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

MILLER ROAD LANDSCAPING PLAN
 SCALE: 1" = 50' SHEET 6 OF 11 SHEETS STA. 108+00 TO STA. 124+31.13

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	328
			CONTRACT NO. 61J93	
		ILLINOIS FED. AID PROJECT		

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LEGEND

- SEEDING, SALT TOLERANT CLASS 2A NITROGEN AND POTASSIUM FERTILIZER NUTRIENT EROSION CONTROL BLANKET
- SEEDING MIXTURE, CLASS 4A & 4B EACH CLASS APPLIED AT 50% OF NORMAL RATE EROSION CONTROL BLANKET
- SEEDING MIXTURE, CLASS 4A, 4B, 5A & 5B EACH CLASS APPLIED AT 25% OF NORMAL RATE EROSION CONTROL BLANKET OR HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING MIXTURE ZONE A HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING MIXTURE ZONE B EROSION CONTROL BLANKET
- SEEDING MIXTURE ZONE C EROSION CONTROL BLANKET
- LANDSCAPE MEDIAN PLANTING (ZONE 1) FOR DETAIL SEE SHEET NO. 332
- LANDSCAPING MEDIAN PLANTING (ZONE 2) FOR DETAIL SEE SHEET NO. 332
- SEEDING NO MOW EROSION CONTROL BLANKET
- RIVER ROCK
- RIPRAP (CLASS AS SPECIFIED)
- ARTICULATED BLOCK REVETMENT MAT
- PROPOSED TREE
- PROPOSED SHRUB



NOTES:

1. FOR TOPSOIL THICKNESS, SEE TYPICAL SECTIONS ON SHEETS 52 THRU 56
2. IMPORT TOPSOIL FROM OFFSITE SOURCES. OBTAIN TOPSOIL DISPLACED FROM NATURALLY WELL-DRAINED CONSTRUCTION OR MINING SITES WHERE TOPSOIL OCCURS AT LEAST 4 INCHES DEEP; DO NOT OBTAIN FROM AGRICULTURAL LAND, BOGS OR MARSHES.

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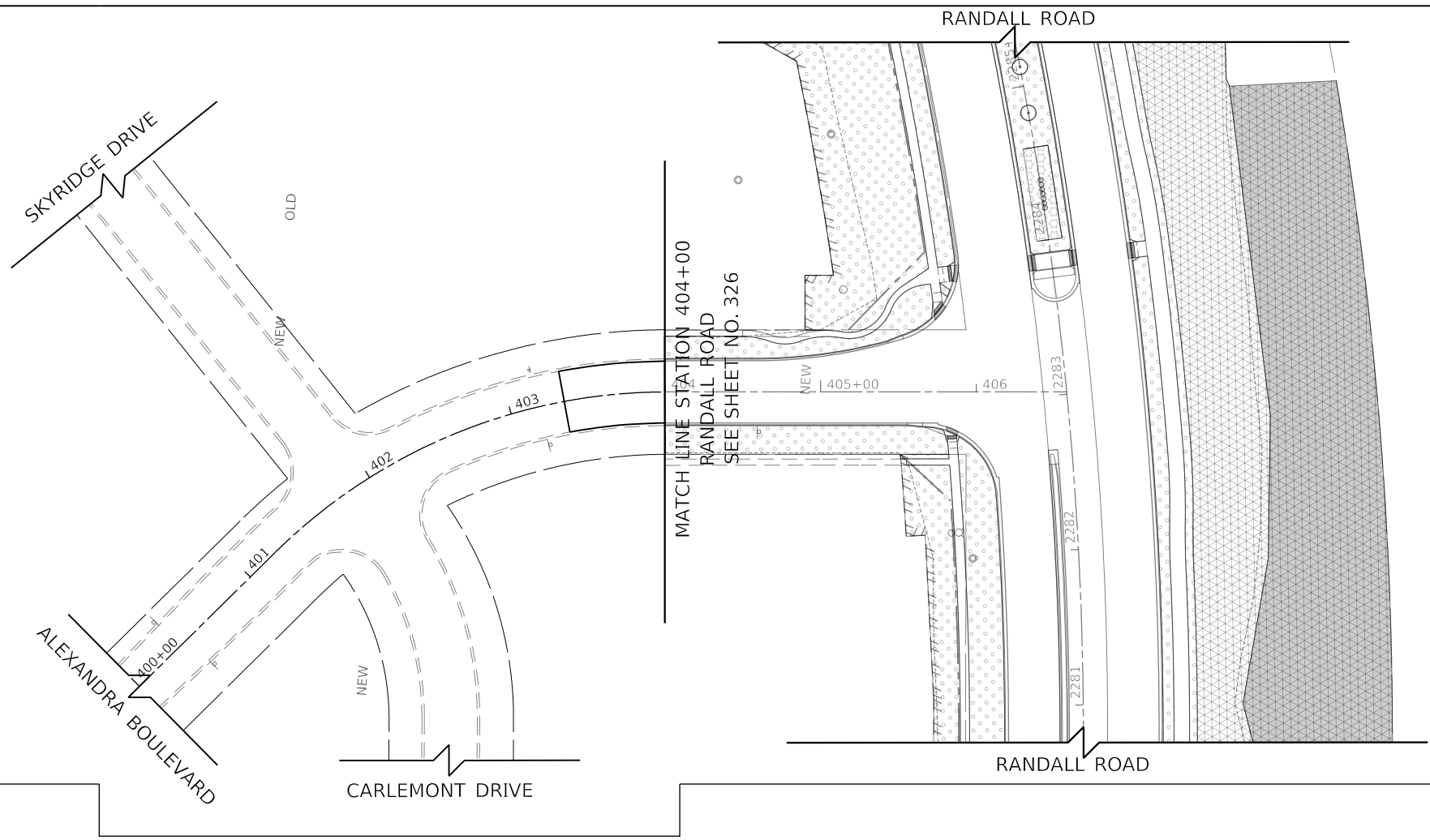
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

VILLAGE ROAD LANDSCAPING PLAN

SCALE: 1" = 50' SHEET 7 OF 11 SHEETS STA. 201+00 TO STA. 211+38.41

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	329
			CONTRACT NO. 61J93	
		ILLINOIS FED. AID PROJECT		

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LEGEND

- SEEDING, SALT TOLERANT CLASS 2A
NITROGEN AND POTASSIUM
FERTILIZER NUTRIENT
EROSION CONTROL BLANKET
- SEEDING MIXTURE, CLASS 4A & 4B
EACH CLASS APPLIED AT 50% OF NORMAL RATE
EROSION CONTROL BLANKET
- SEEDING MIXTURE, CLASS 4A, 4B, 5A & 5B
EACH CLASS APPLIED AT 25% OF NORMAL RATE
EROSION CONTROL BLANKET OR
HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING MIXTURE ZONE A
HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING MIXTURE ZONE B
EROSION CONTROL BLANKET
- SEEDING MIXTURE ZONE C
EROSION CONTROL BLANKET
- LANDSCAPE MEDIAN PLANTING (ZONE 1)
FOR DETAIL SEE SHEET NO. 332
- LANDSCAPING MEDIAN PLANTING (ZONE 2)
FOR DETAIL SEE SHEET NO. 332
- SEEDING NO MOW
EROSION CONTROL BLANKET
- RIVER ROCK
- RIPRAP (CLASS AS SPECIFIED)
- ARTICULATED BLOCK REVETMENT MAT
- PROPOSED TREE
- PROPOSED SHRUB



NOTES:

1. FOR TOPSOIL THICKNESS, SEE TYPICAL SECTIONS ON SHEETS 52 THRU 56
2. IMPORT TOPSOIL FROM OFFSITE SOURCES. OBTAIN TOPSOIL DISPLACED FROM NATURALLY WELL-DRAINED CONSTRUCTION OR MINING SITES WHERE TOPSOIL OCCURS AT LEAST 4 INCHES DEEP; DO NOT OBTAIN FROM AGRICULTURAL LAND, BOGS OR MARSHES.

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ALEXANDRA BOULEVARD LANDSCAPING PLAN

SCALE: 1" = 50' SHEET 8 OF 11 SHEETS STA. 201+00 TO STA. 211+38.41

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	330
			CONTRACT NO. 61J93	
		ILLINOIS FED. AID PROJECT		

TRAFFIC SIGNAL SCHEDULE OF QUANTITIES

NO	PAY ITEM NUMBER	PAY ITEM NAME	UNIT	QTY TOTAL	RANDALL RD & MILLER RD	RANDALL RD & ALEXANDRA RD	PROPOSED RANDALL ROAD INTERCONNECT	MOT/DETOUR
1	72000100	SIGN PANEL - TYPE 1	SQ FT	75	60	15		
2	72000200	SIGN PANEL - TYPE 2	SQ FT	12	12			
3	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	0.50	0.25	0.25		
4	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	7,589	269	32	7,288	
5	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	172	78	94		
6	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1,742	1,123	619		
7	81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	305			305	
8	81301290	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 12" X 12" X 6"	EACH	2			2	
9	81400100	HANDHOLE	EACH	23	7	3	13	
10	81400300	DOUBLE HANDHOLE	EACH	5	3	2		
11	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2			2	
12	86400100	TRANSCEIVER - FIBER OPTIC	EACH	2	1	1		
13	87300901	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	9,050			9,050	
14	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3,765	2,500	1,265		
15	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	4,440	2,455	1,985		
16	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5,930	3,165	2,765		
17	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3,580	2,840	740		
18	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	285	250	35		
19	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2,315	1,525	790		
20	87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	5	2	3		
21	87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1		1		
22	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3	2	1		
23	87700410	STEEL MAST ARM ASSEMBLY AND POLE, 65 FT.	EACH	1	1			
24	87702830	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 20 FT.	EACH	2	1	1		
25	87702890	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	1		1		
26	87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1		1		
27	87702990	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1	1			
28	87703010	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56 FT.	EACH	1		1		
29	87703020	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 58 FT.	EACH	1	1			
30	87703120	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 75 FT.	EACH	1	1			
31	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	60	36	24		
32	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8	4	4		
33	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	75	30	45		
34	87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	67	46	21		
35	87900200	DRILL EXISTING HANDHOLE	EACH	2			2	
36	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	20	11	9		
37	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3	1	2		
38	88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2	2			
39	88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2	2			
40	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4	3	1		
41	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	8	5	3		
42	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	14	8	6		
43	88200100	TRAFFIC SIGNAL BACKPLATE	EACH	30	18	12		
44	88700200	LIGHT DETECTOR	EACH	6	3	3		
45	88700300	LIGHT DETECTOR AMPLIFIER	EACH	2	1	1		
46	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2	1	1		
47	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1			
48	89502376	REBUILD EXISTING HANDHOLE	EACH	1			1	
49	89502380	REMOVE EXISTING HANDHOLE	EACH	15	12		3	
50	89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1	1			

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 1475 EAST WOODFIELD ROAD, SUITE 600
 SCHAMBERG, ILLINOIS 60173
 (847) 605-9600

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PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNALS
 SUMMARY OF QUANTITIES**

SCALE: SHEET 1 OF 43 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	334
CONTRACT NO. 61J93			ILLINOIS FED. AID PROJECT	

TRAFFIC SIGNAL SCHEDULE OF QUANTITIES

NO	PAY ITEM NUMBER	PAY ITEM NAME	UNIT	QTY TOTAL	RANDALL RD & MILLER RD	RANDALL RD & ALEXANDRA RD	PROPOSED RANDALL ROAD INTERCONNECT	MOT/DETOUR
51	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9	9			
52	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1,375	695	680		
53	X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	562			562	
54	X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	7	4	3		
55	X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	200	100	100		
56	X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	2	1	1		
57	X1400156	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, FAR BACK	EACH	4	2	2		
58	X1400215	REMOTE CONTROLLED VIDEO SYSTEM	EACH	2	1	1		
59	X1400216	LAYER II (DATALINK) SWITCH	EACH	4	1	1	2	
60	X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	4	4			
61	X1400424	ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	1,495	880	615		
62	X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	2	1	1		
63	X8620200	UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	2	1	1		
64	X8710031	FIBER OPTIC CABLE 36 FIBERS, SINGLE MODE	FOOT	9,100			9,100	
65	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	18	12	6		
66	X8780105	CONCRETE FOUNDATIONS (SPECIAL)	EACH	1	1			
67	X8809005	LED SIGNAL FACE, LENS COVER	EACH	30	18	12		
68	X8891001	VIDEO VEHICLE DETECTION SYSTEM	EACH	2	1	1		
69	X8950510	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	2,700			2,700	
70	XX009622	STEEL LUMINAIRE MAST ARM ASSEMBLY 20 FT.	EACH	1		1		
71	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	2			2	
72	Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1			1	
73	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	4	1	1		2

TRAFFIC SIGNAL GENERAL NOTES:

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
- THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811, FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
- THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
- ALL TYPE IV SIGNAL CABINETS SHALL BE 65 INCHES HIGH MODIFIED TYPE IV CABINETS WITH AN ADDITIONAL SHELF. CONTRACTOR SHALL PROVIDE CABINET SHOP DRAWINGS FOR COUNTY REVIEW AND APPROVAL PRIOR TO ORDERING MATERIALS.
- FOUNDATIONS FOR TRAFFIC SIGNAL MAST ARM ASSEMBLIES SHALL HAVE A MINIMUM DEPTH OF 15 FT, AS SPECIFIED IN PLANS. FOUNDATION DEPTHS FOR MAST ARMS LESS THAN 50 FT, SPECIFIED IN DISTRICT ONE STANDARD TS-05 AND HIGHWAY STANDARD 878001-10 SHALL NOT APPLY.
- MATERIALS SUBMITTALS SHALL BE REVIEWED BY MCHENRY COUNTY PRIOR TO SUBMITTING FOR LOCAL ROADS REVIEW.
- THE PROPOSED INTERCONNECT FIBER WILL BE BROUGHT INTO THE TRAFFIC SIGNAL CABINETS AND SHALL NOT BE SPLICED

TEMPORARY TRAFFIC SIGNAL GENERAL NOTES:

- ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERES WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATABLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1. INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- ALL TRAFFIC SIGNAL SECTIONS SHALL BE 12" AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 16" X 18". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY OTHER POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROLER EQUIPMENT.
- EXISTING EMERGENCY VEHICLE PREEPTION (EVP) EQUIPMENT SHALL BE RETURNED TO THE FIRE PROTECTION DISTRICT AS INDICATED IN THE REMOVAL PLANS. THE EQUIPMENT SHALL BE DELIVERED TO 1020 W ALGONQUIN ROAD, LAKE IN THE HILLS, IL 60156. CONTACT FIRE PROTECTION DISTRICT AT 847-658-8233 TO SCHEDULE AN APPOINTMENT FOR DELIVERY. REQUIREMENTS FOR REMOVAL, STORAGE AND DELIVERY OF COUNTY EQUIPMENT AS NOTED IN THE TRAFFIC SIGNAL SPECIFICATIONS SHALL ALSO APPLY TO THE EVP EQUIPMENT.

TRANSYSTEMS
 1475 EAST WOODFIELD ROAD, SUITE 600
 SCHAMBERG, ILLINOIS 60173
 (847) 605-9600

FILE NAME: D:\XXXX-SHT-TS002-50002.dgn

USER NAME = btwegner	DESIGNED - BTW	REVISED -
SFN-TSP2	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GR	REVISED -
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNALS
 SUMMARY OF QUANTITIES**

SCALE: SHEET 2 OF 43 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	335
CONTRACT NO. 61J93				
ILLINOIS		FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

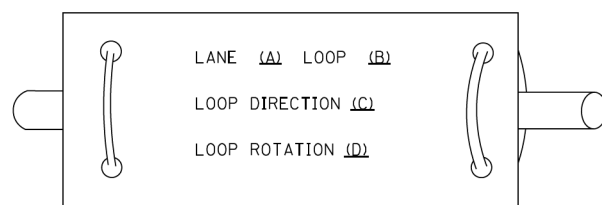
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ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM					
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

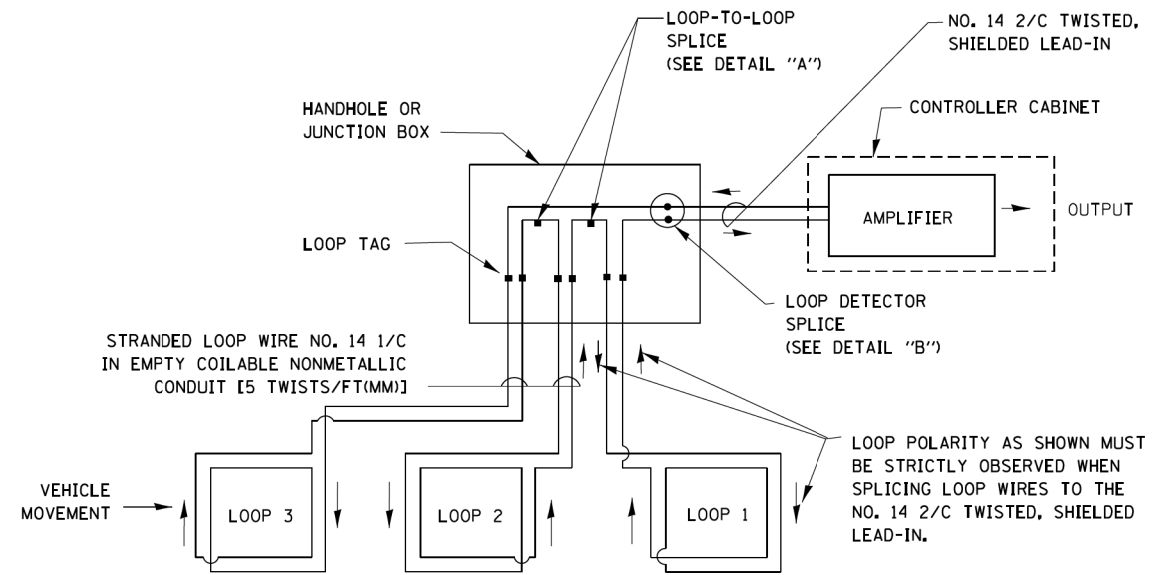
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

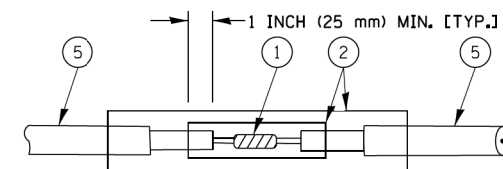


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

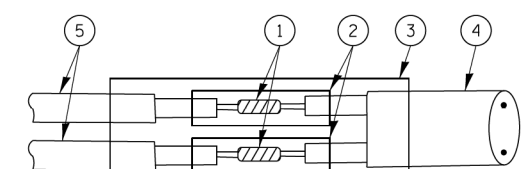


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

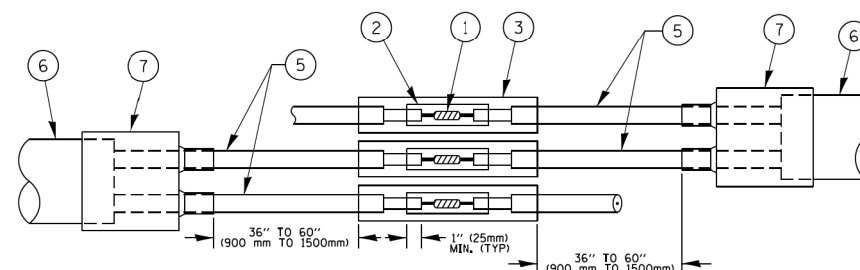


DETAIL "A"
LOOP-TO-LOOP SPLICE

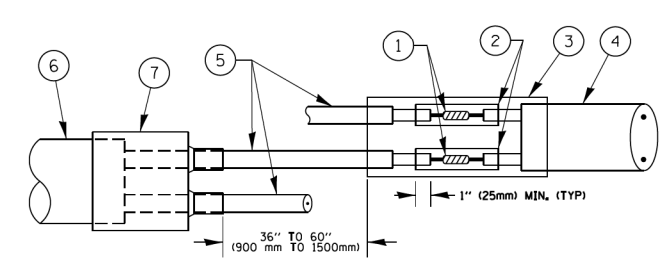


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

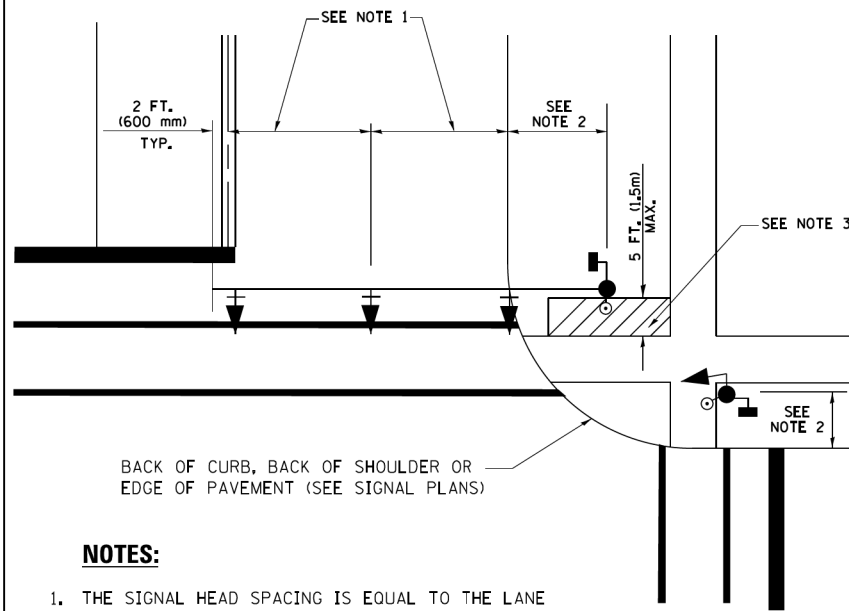
PREFORMED LOOP

LOOP DETECTOR SPLICE

- ① WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- ② WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- ③ WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- ④ NO. 14 2/C TWISTED, SHIELDED CABLE.
- ⑤ LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- ⑥ PREFORMED LOOP
- ⑦ XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS				F.A.P. RTE. 336	SECTION 06-00329-02-PW	COUNTY MCHENRY	TOTAL SHEETS 735	SHEET NO. 337
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PLOT DATE = 1/13/2014	DATE - 10-28-09	CHECKED - DAD	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								
		DATE - 10-28-09	REVISED -										

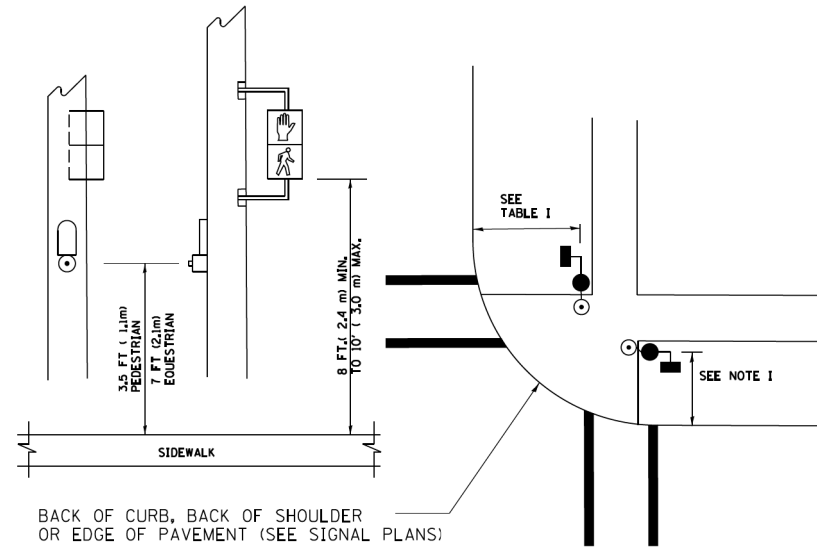
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

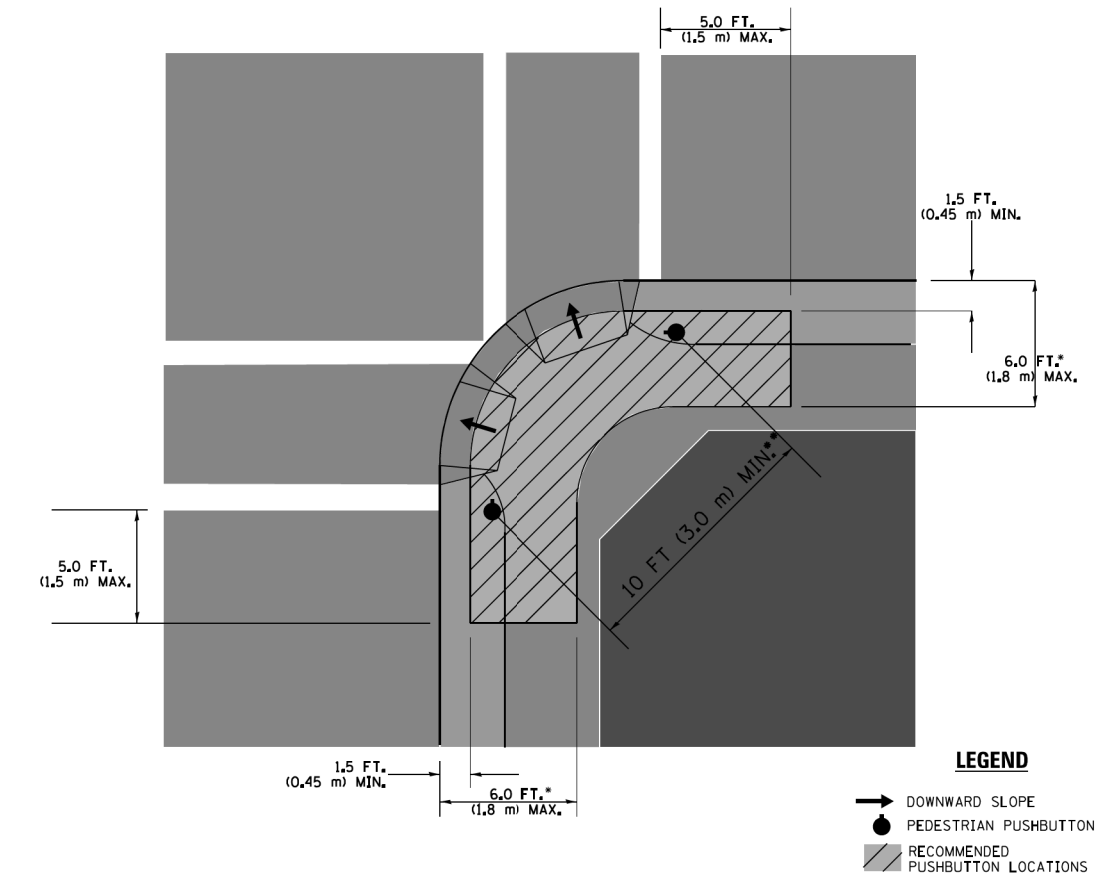
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

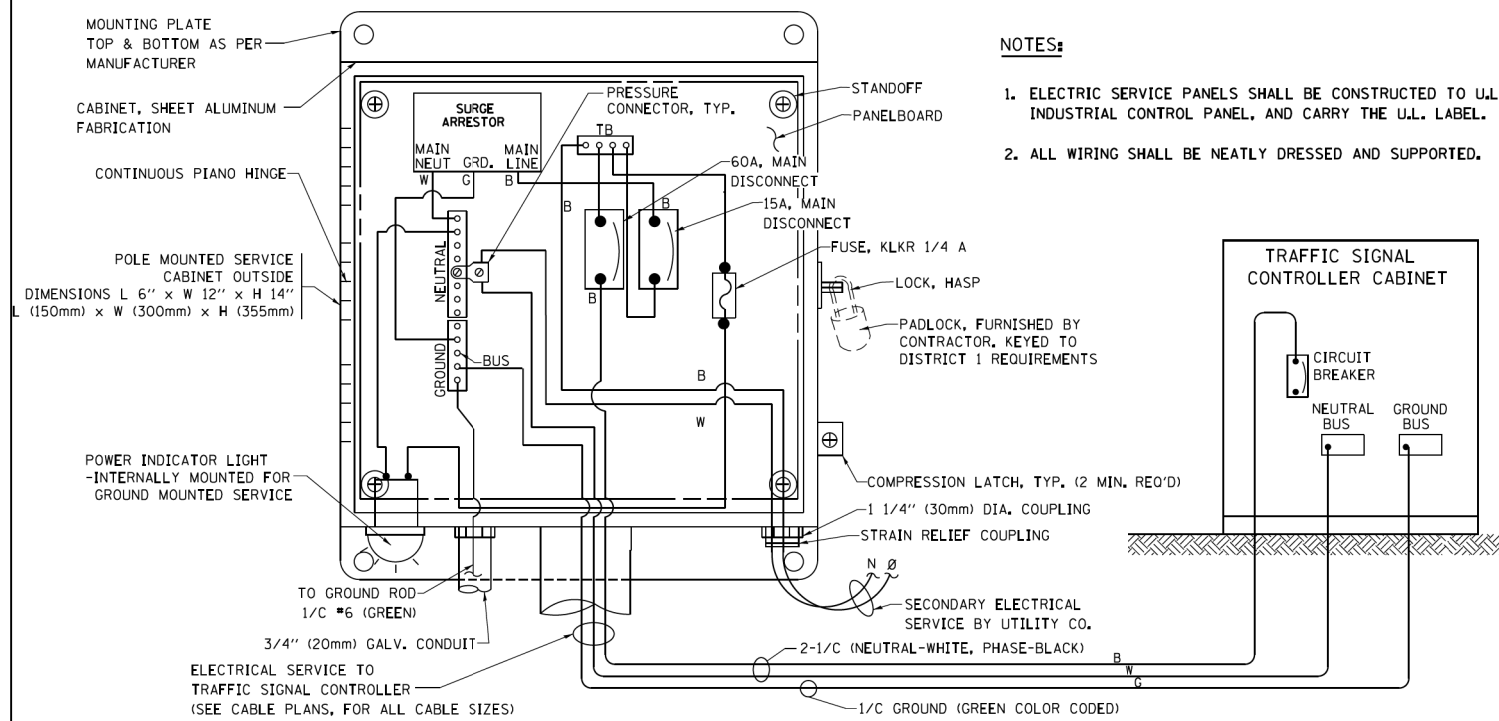
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

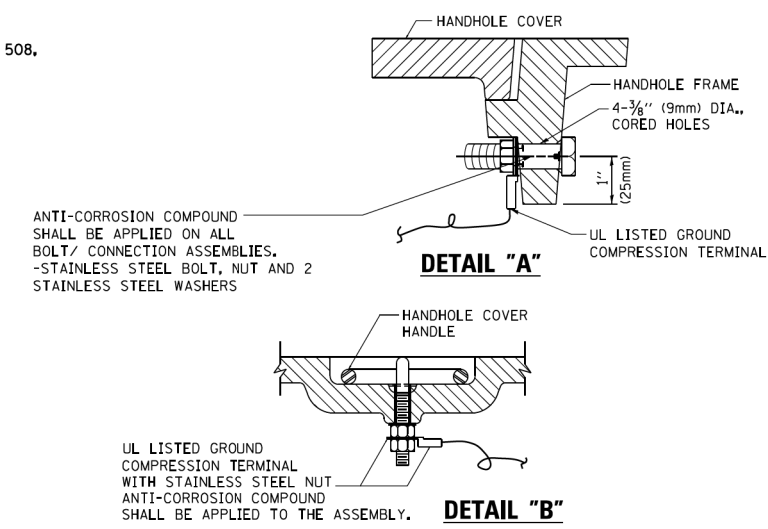
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

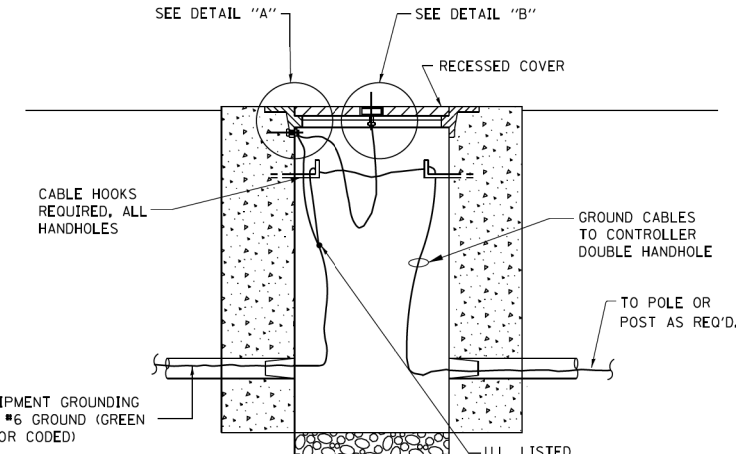


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)

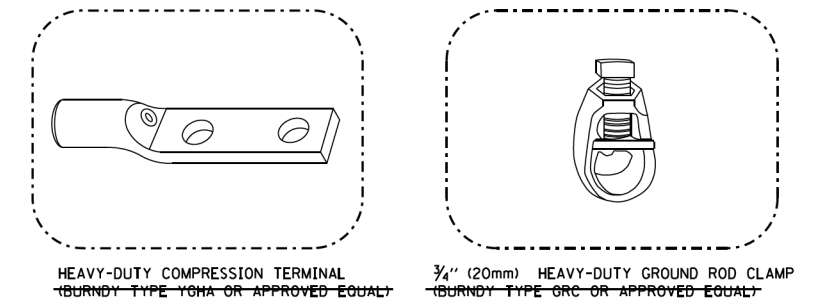


NOTES:
GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD, ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

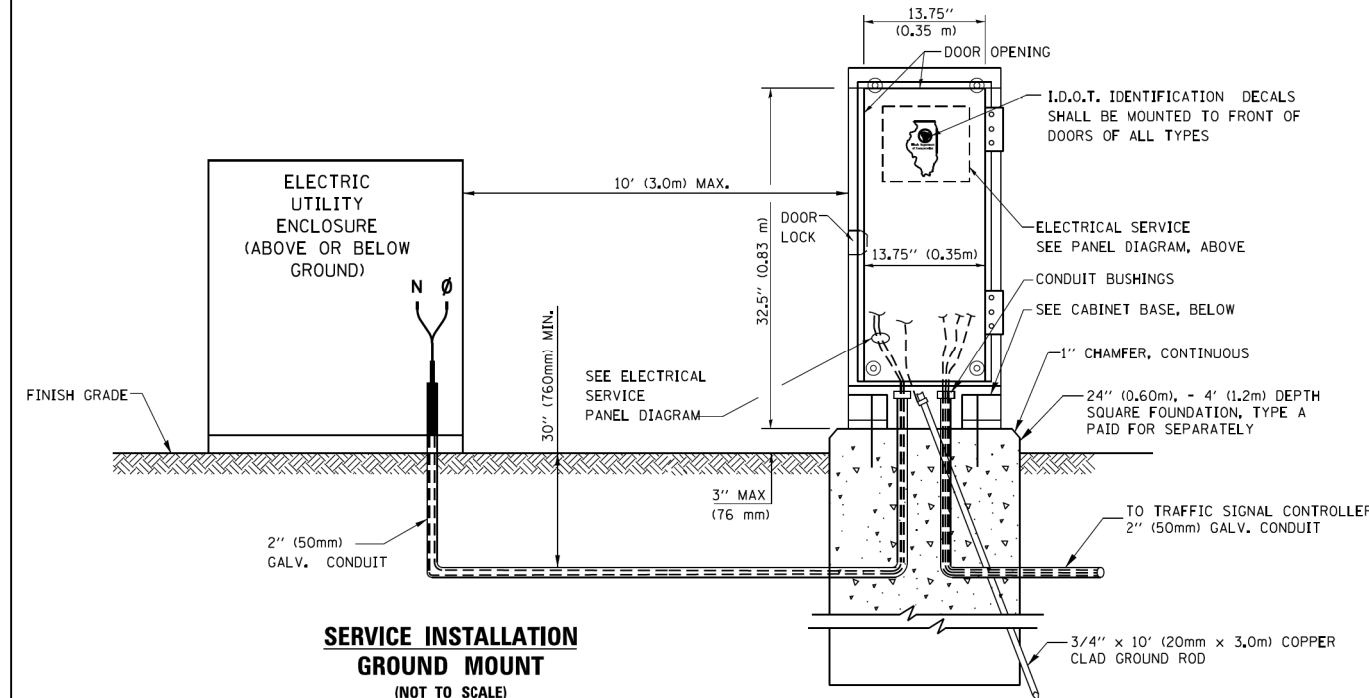


HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)

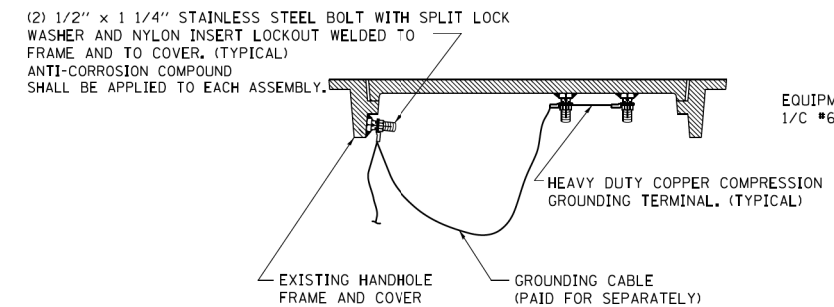


NOTES:

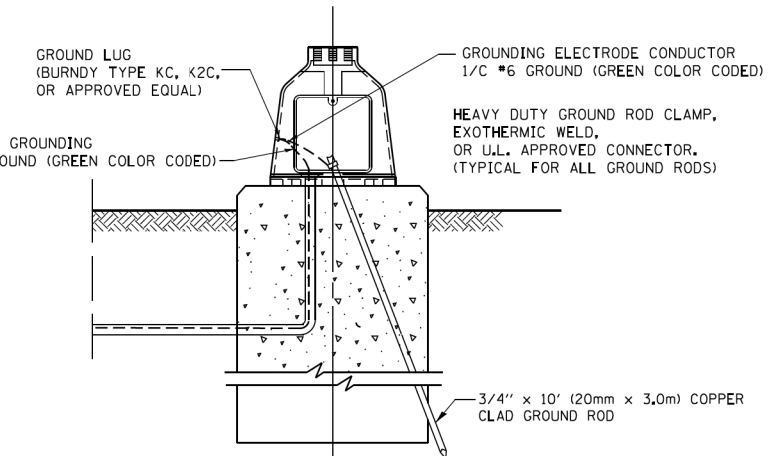
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)

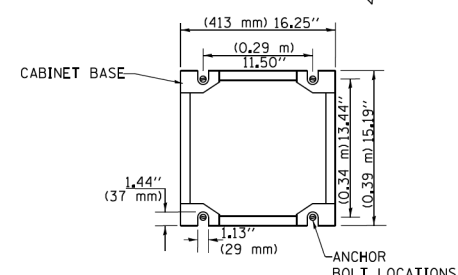


EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)



MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)

CABINET - BASE BOLT PATTERN (NOT TO SCALE)



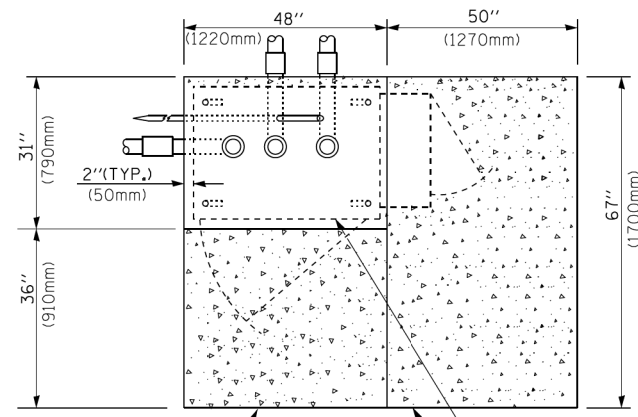
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		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

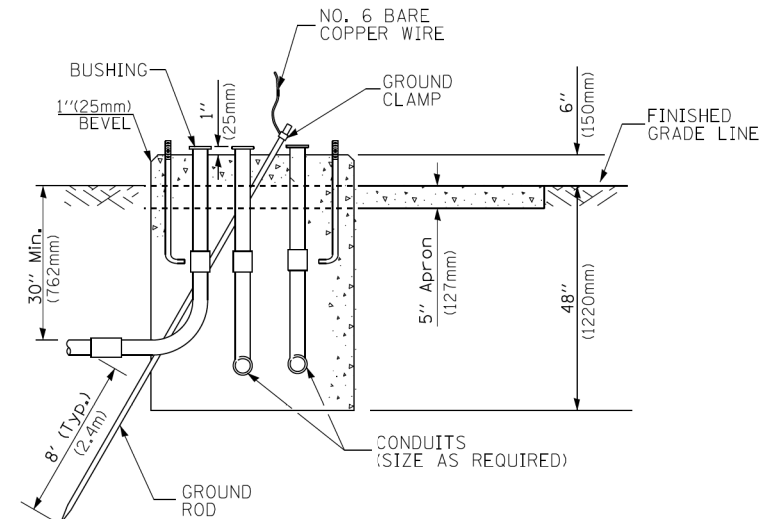
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	339
TS-05		CONTRACT NO. 61193		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SCALE: NONE SHEET 6 OF 43 SHEETS STA. TO STA.



TOP VIEW



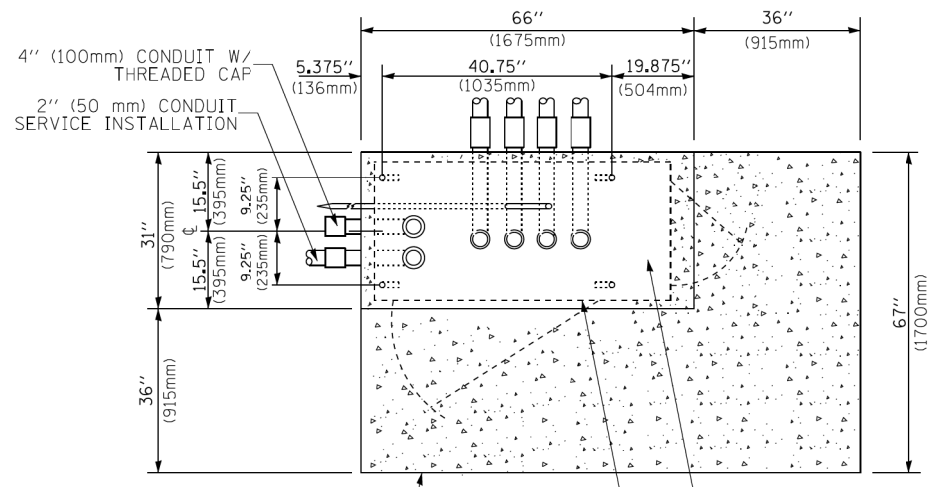
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

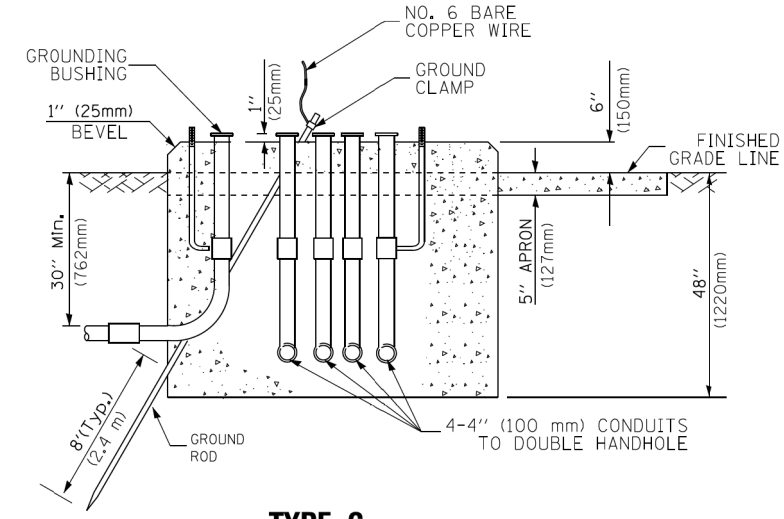
CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH



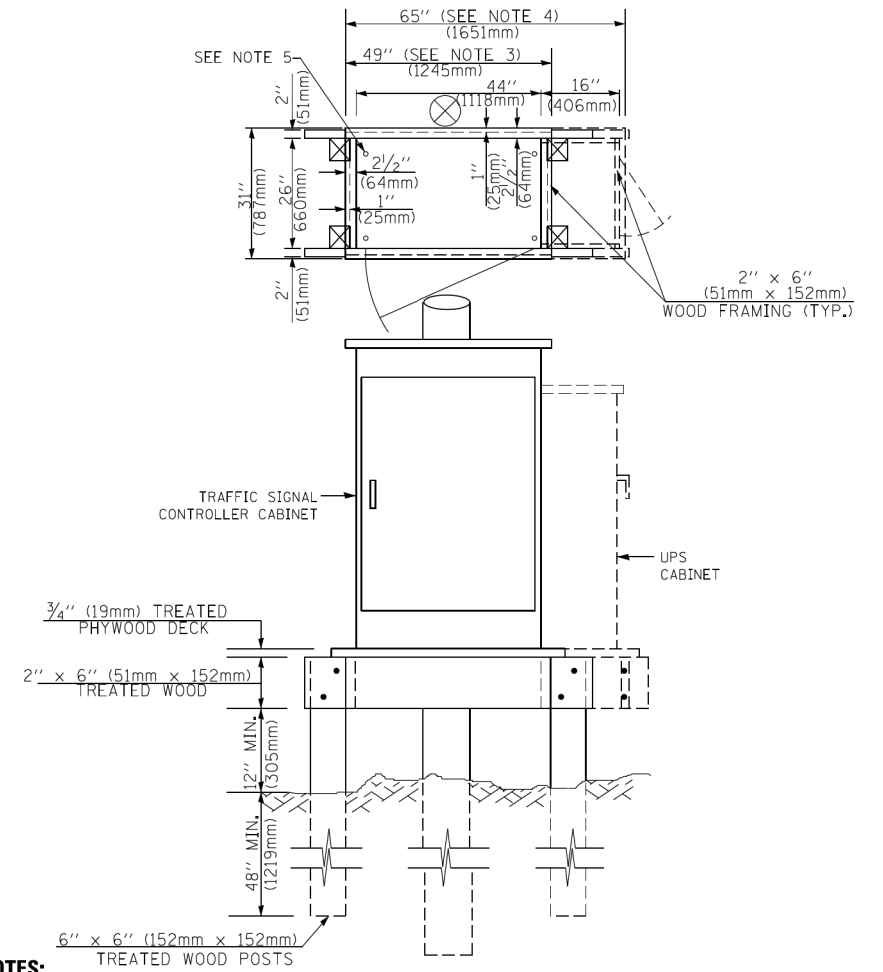
TOP VIEW



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION



NOTES:

- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

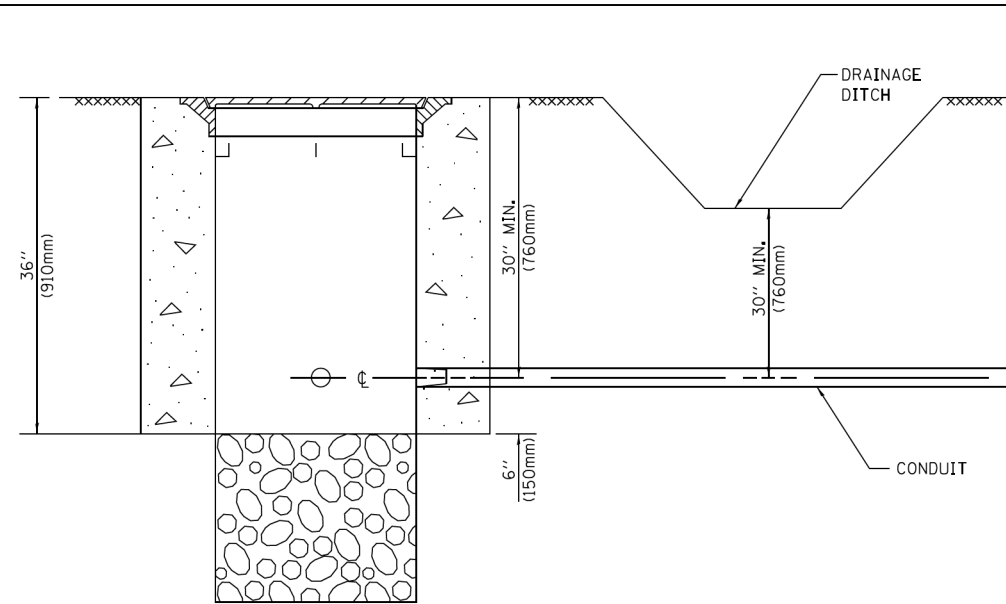
**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average unconfined compressive strength (qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
- Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
- For mast arm assemblies with dual arms refer to state standard 878001..

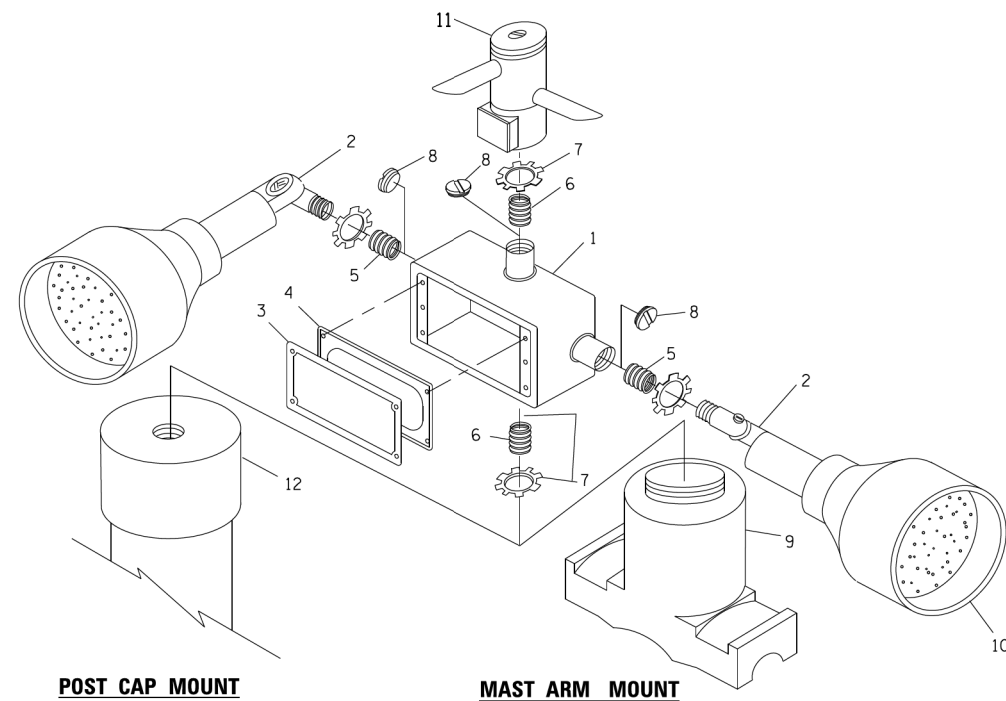
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

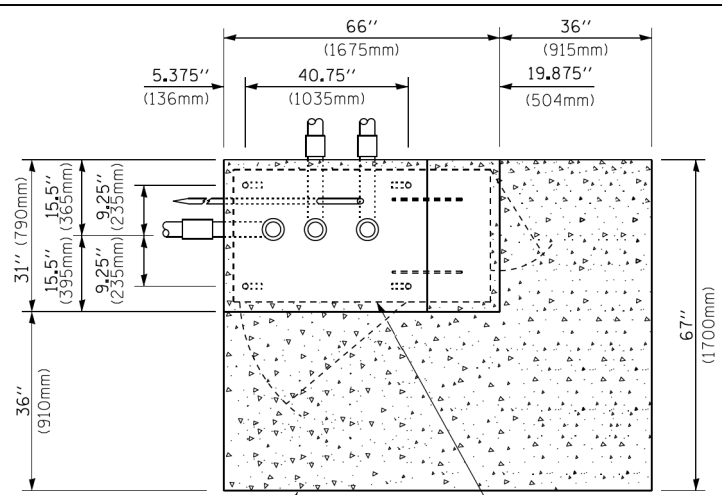
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



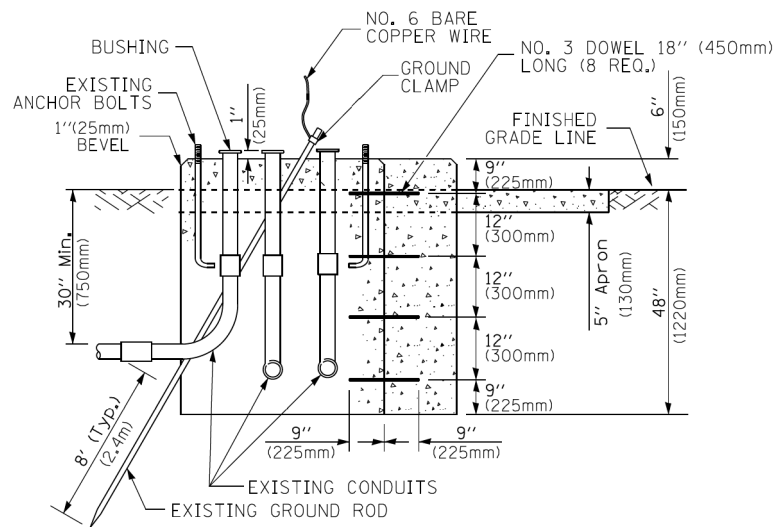
POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



TOP VIEW
(NOT TO SCALE)

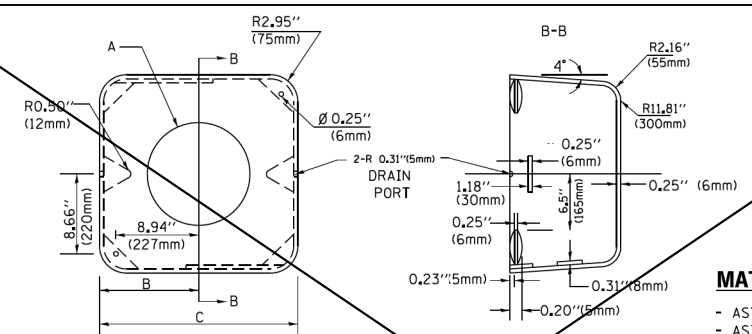


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1 OZ/GEENEY FSX 1 50 OR EQUIVALENT
ITEM #2 MULBERRY CON-O SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9 "BAND IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



SHROUD

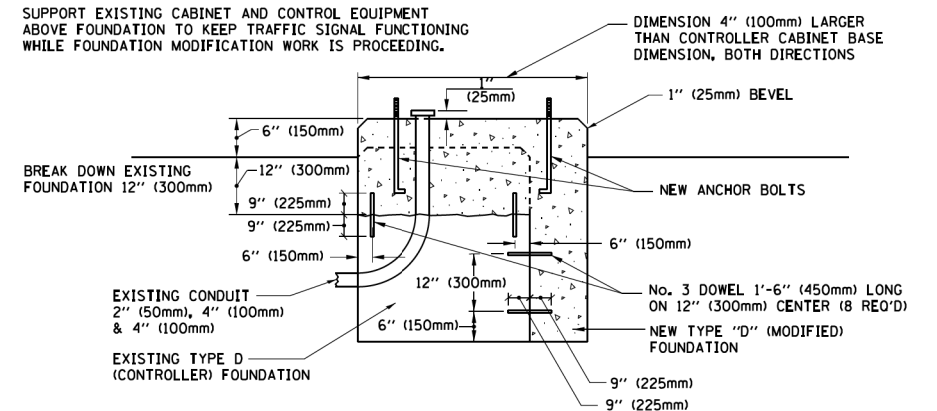
A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

NOTES:

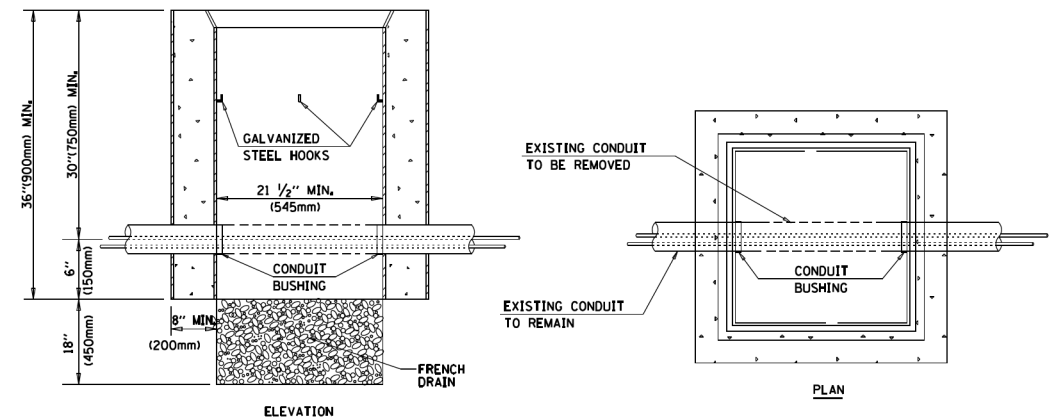
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

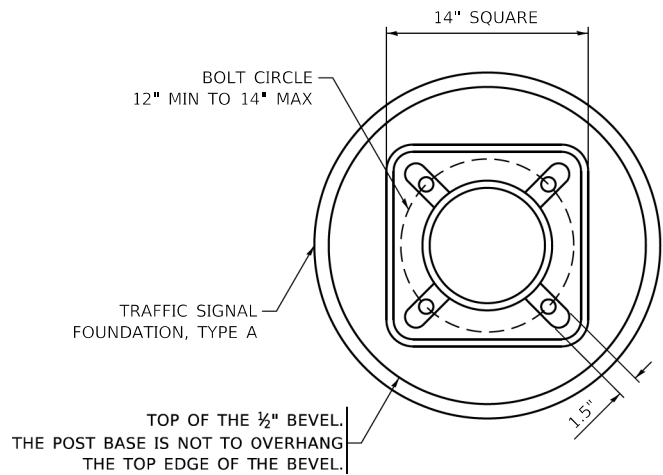
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 8 OF 43 SHEETS STA. TO STA.

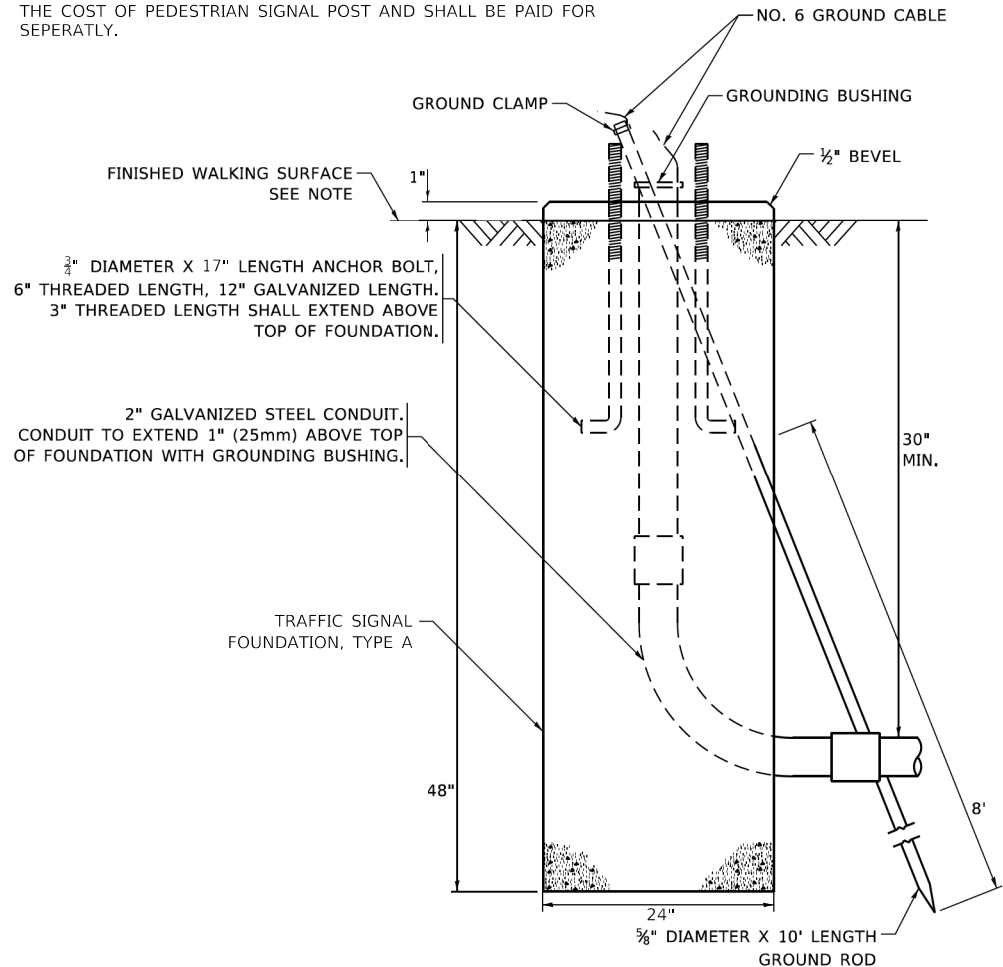
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	341
	TS-05			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		CONTRACT NO. 61193



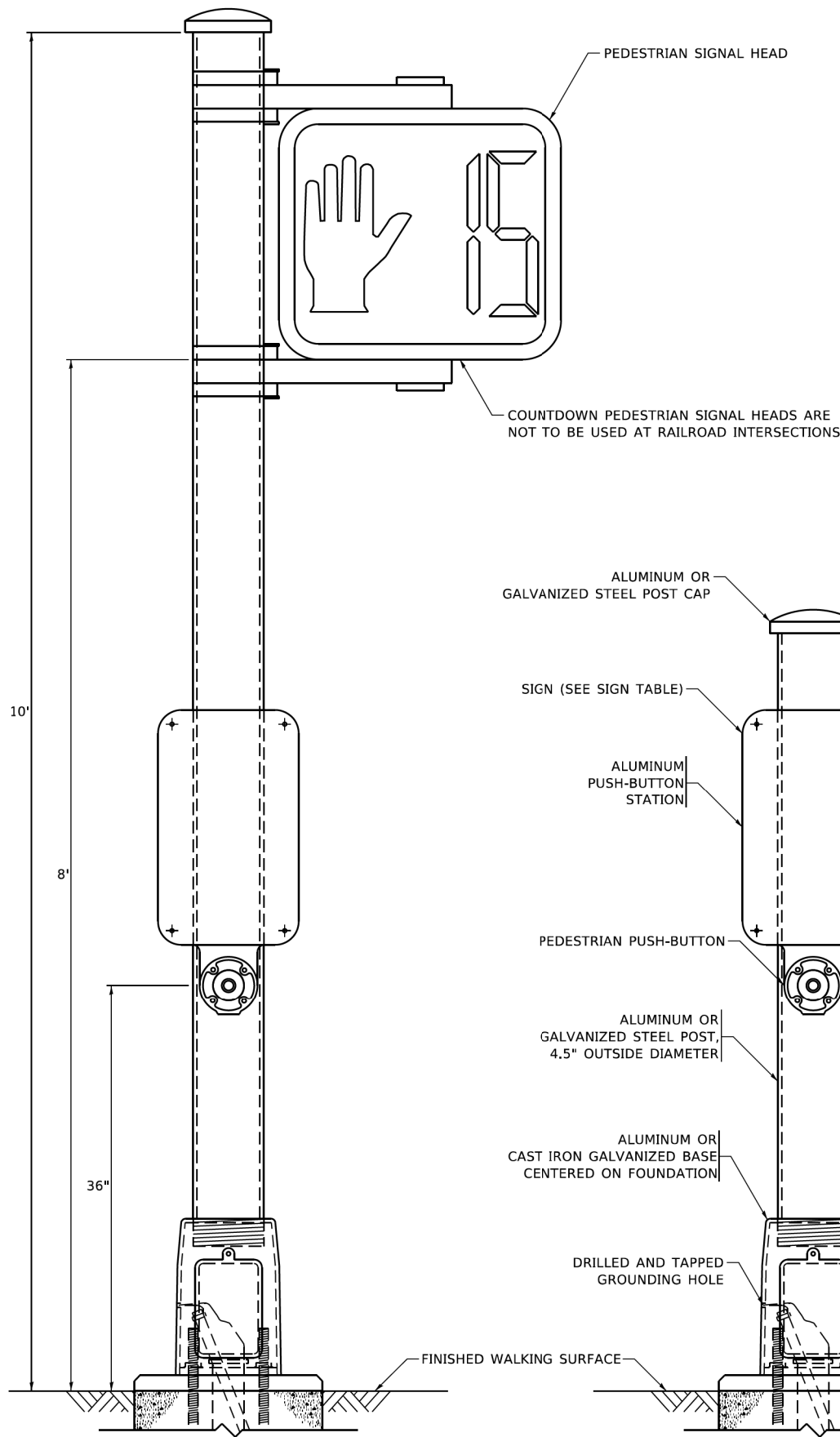
BOLT PATTERN

NOTE:

1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.
2. TRAFFIC SIGNAL FOUNDATION, TYPE A SHALL NOT BE INCLUDED IN THE COST OF PEDESTRIAN SIGNAL POST AND SHALL BE PAID FOR SEPERATLY.

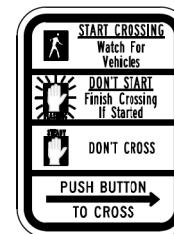


TRAFFIC SIGNAL FOUNDATION, TYPE A

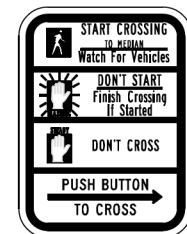


PEDESTRIAN SIGNAL POST, 10 FT.

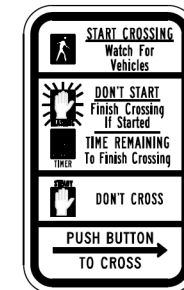
PEDESTRIAN SIGNAL POST, 5 FT.



R10-3b



R10-3d



R10-3e

COUNTDOWN PEDESTRIAN SIGNAL HEADS ARE NOT TO BE USED AT RAILROAD INTERSECTIONS

SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 12"

NOTES:

1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

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11/23/2020 11:14:28 AM

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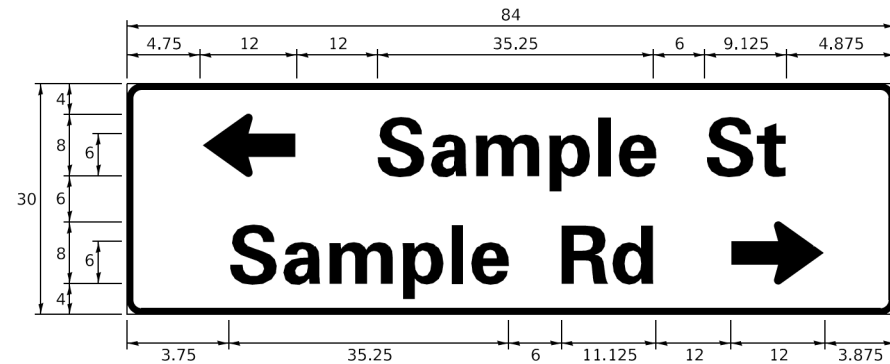
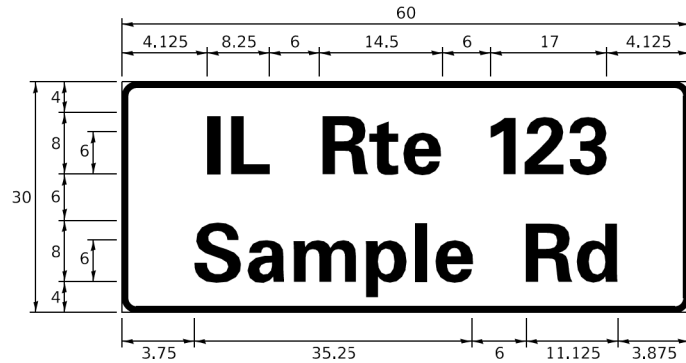
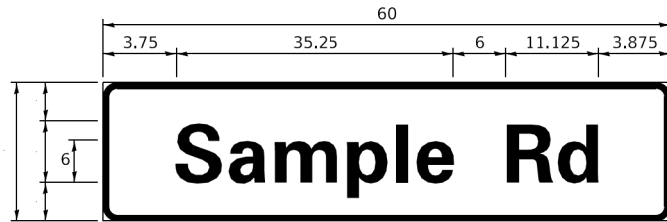
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 9 OF 43 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	342
TS-05 (MODIFIED)		CONTRACT NO. 61193		
ILLINOIS FED. AID PROJECT				

SIGN PANEL – TYPE 1 OR TYPE 2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012. AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
- SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
- BRACKETS PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

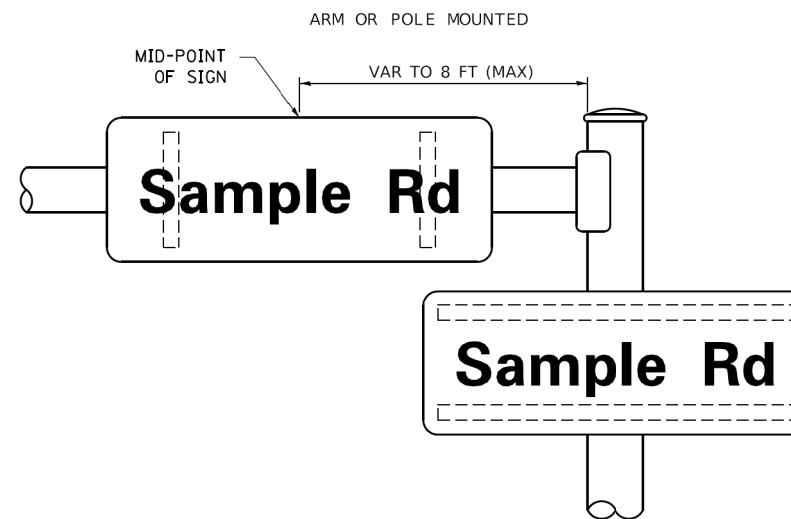
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

STANDARD ALPHABETS SPACING CHART

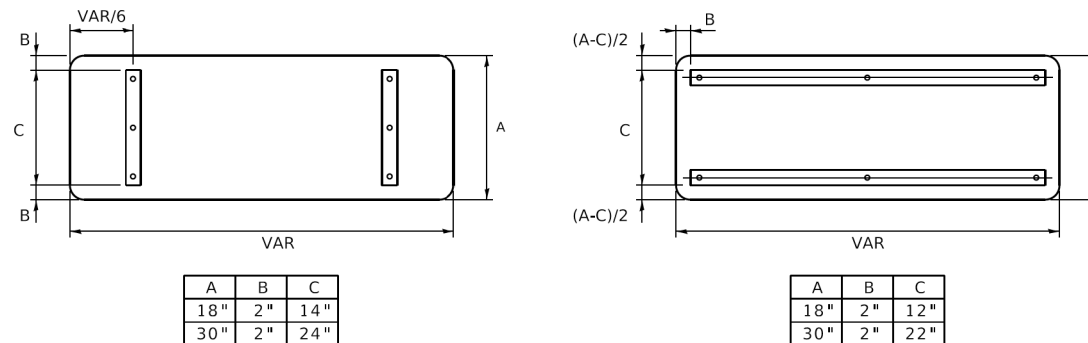
(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

MOUNTING LOCATION



SUPPORTING CHANNELS



MODEL: Default
FILE NAME: P:\11\084\BENTLEY\Illinois.gov\WIDOT\Documents\DOT Offices\District 1\Projects\Dist1\2023\23-CAD\DATA\CAD\Sheet16102.dgn

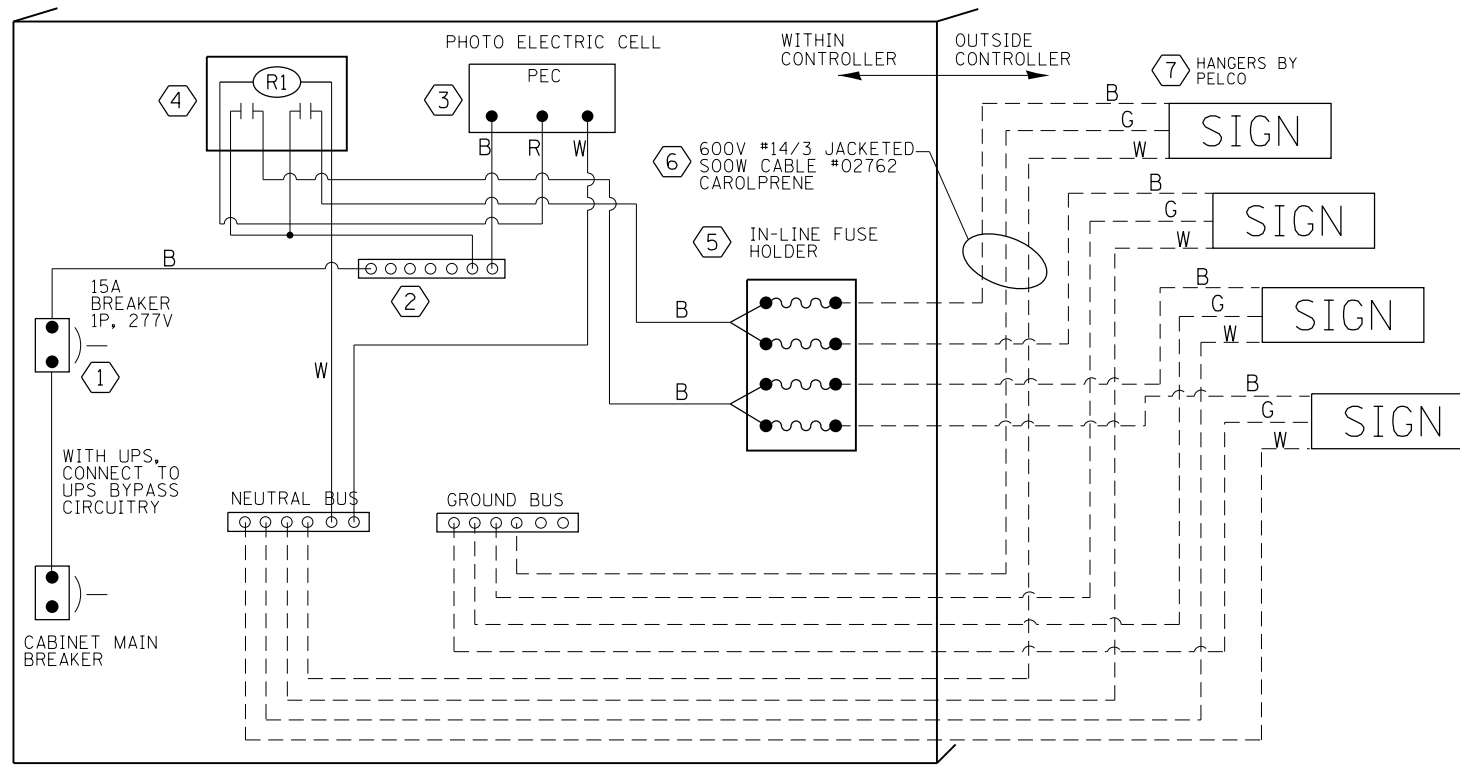
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	DRAWN - LP	REVISED -
PLOT SCALE = 50.0000' / 1/4"	CHECKED - IP	REVISED -
PLOT DATE = 3/4/2019	DATE - 10/01/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	
SHEET 10	OF 43 SHEETS
STA. TO STA.	

**DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS**

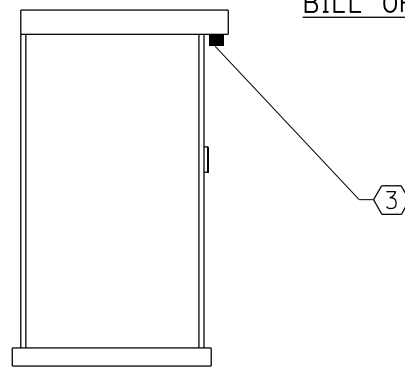
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	343
TS-02		CONTRACT NO.	61J93	
ILLINOIS FED. AID PROJECT				



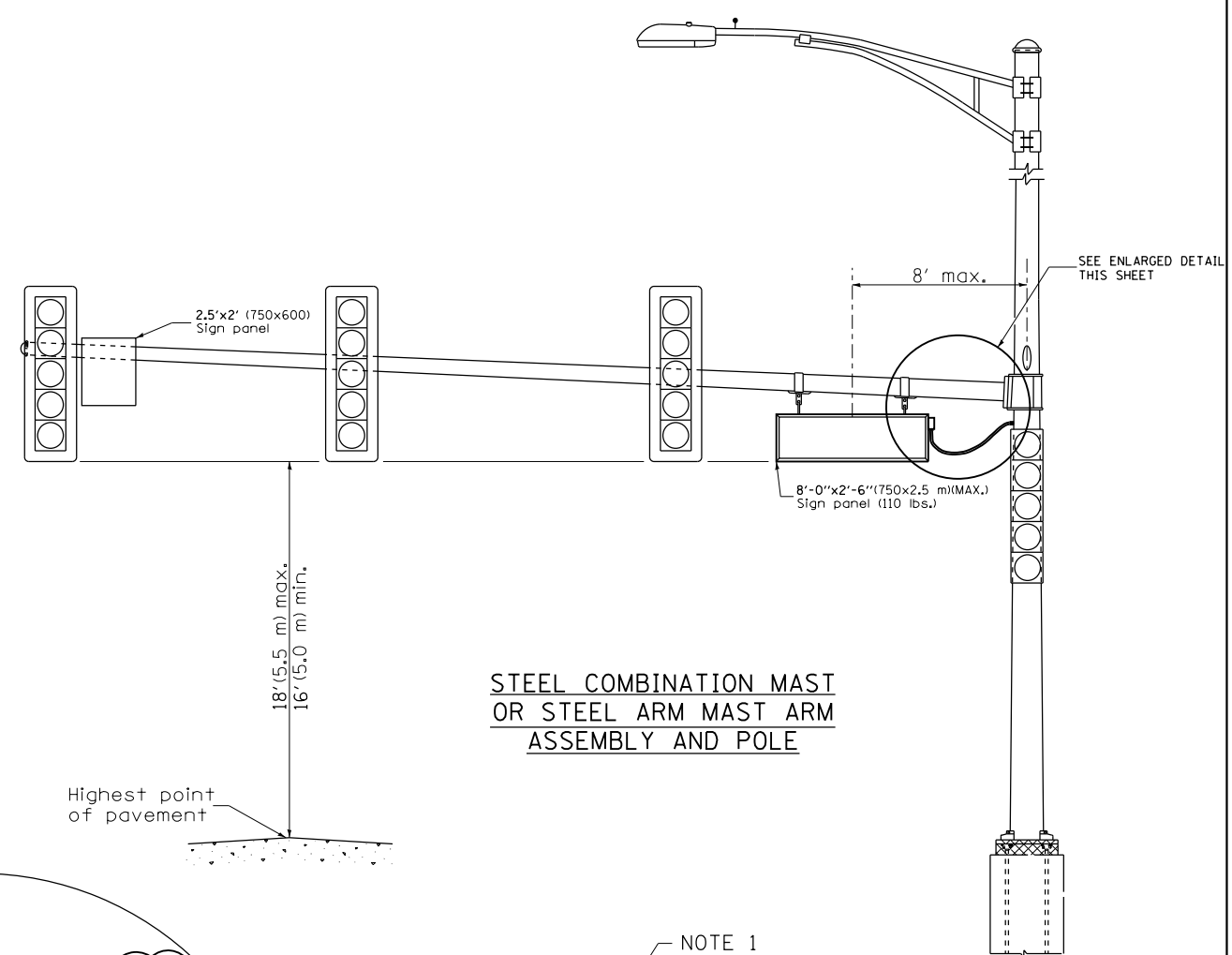
LED SIGN WIRING DETAIL

DESCRIPTION	MANUFACTURER	MODEL	NOTES
① CIRCUIT BREAKER		15 AMPERE	Molded case, Thermal Mag. min. R.I. of 14K R.M.S. symmetrical ampere of 277V.
② TERMINAL BLOCK	MARATHON	1502 DJSV	
③ PHOTO ELECTRIC CONTROL	FISHER PIERCE	B124-1.5-07762	
④ CONTROL RELAY	SQUARE D	8501X020V02	BOLT ON W/SCREW TERMINAL
⑤ INLINE FUSE HOLDER WITH 5 AMP FUSE	BUSSMAN	S-8000 BK/S-8-3-4-R	
⑥ ELECTRIC CABLE, NO. 14, 3/C (BLACK, WHITE, GREEN)	CAROLPRENE/SOOW	02762	
⑦ SIGN MOUNTING HARDWARE	PELCO	SE-5015	S.S. HARDWARE

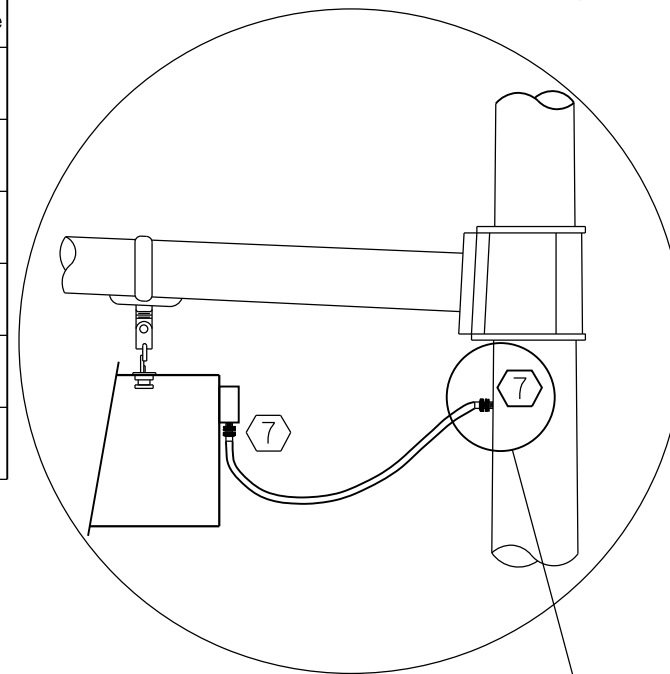
BILL OF MATERIALS



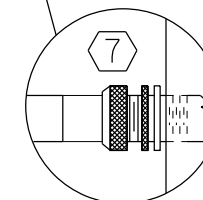
CONTROLLER CABINET SIDE VIEW



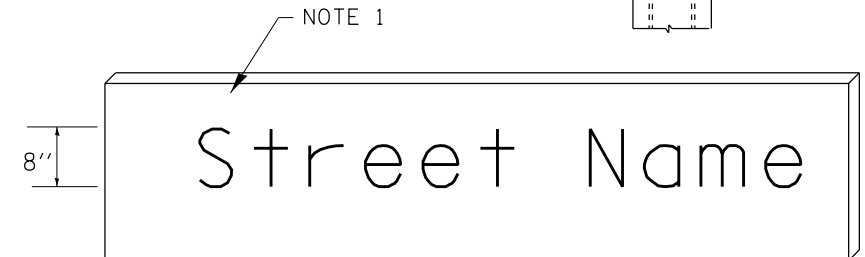
STEEL COMBINATION MAST OR STEEL ARM MAST ARM ASSEMBLY AND POLE



L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL



L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL



LED ILLUMINATED SIGN PANEL

8'0 x 2'6" (750 mm x 2.5 mm)(MAX)
C or D FONT

NOTES:

- SIGNS SHALL BE DUAL SIDED. FRONT AND BACK OF SIGN WILL BE THE SAME.
- SIGNS SHALL NOT BE ENERGIZED WHEN TRAFFIC SIGNALS ARE POWERED BY THE UPS. THE SIGNS SHALL BE CONNECTED TO THE UPS BYPASS CIRCUITRY.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
- ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12AWG STRANDED UNLESS OTHERWISE INDICATED.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

FILE NAME: D:\XXXXX\5HT\50020_illumSignDetail

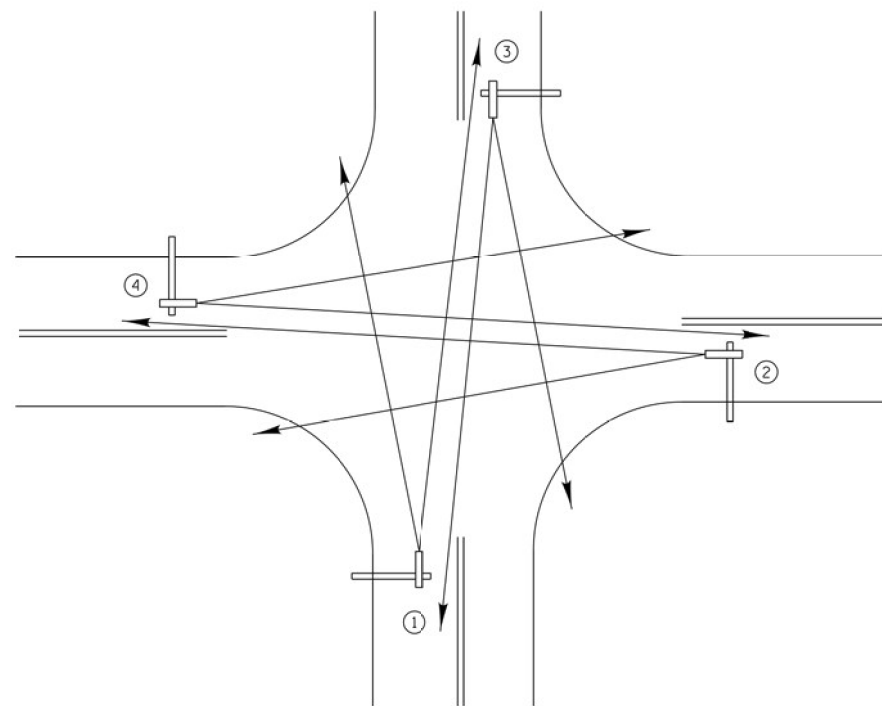
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PLOT SCALE = 100.0000' / in.	DRAWN - GR	REVISED -
PLOT DATE = 6/11/2024	CHECKED - ---	REVISED -
	DATE - 6/14/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LED INTERNALLY ILLUMINATED STREET NAME SIGN
INSTALLATION AND WIRING DIAGRAM

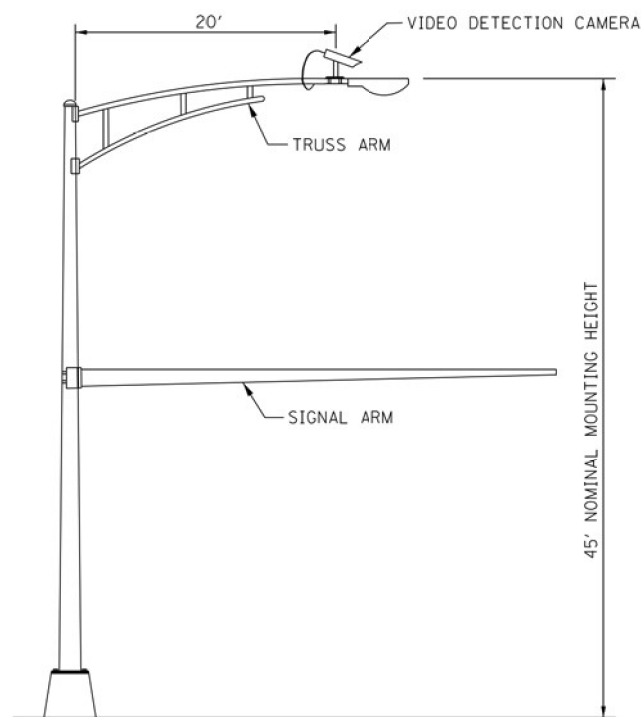
SCALE: NONE SHEET 11 OF 43 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	344
CONTRACT NO. 61J93			ILLINOIS FED. AID PROJECT	

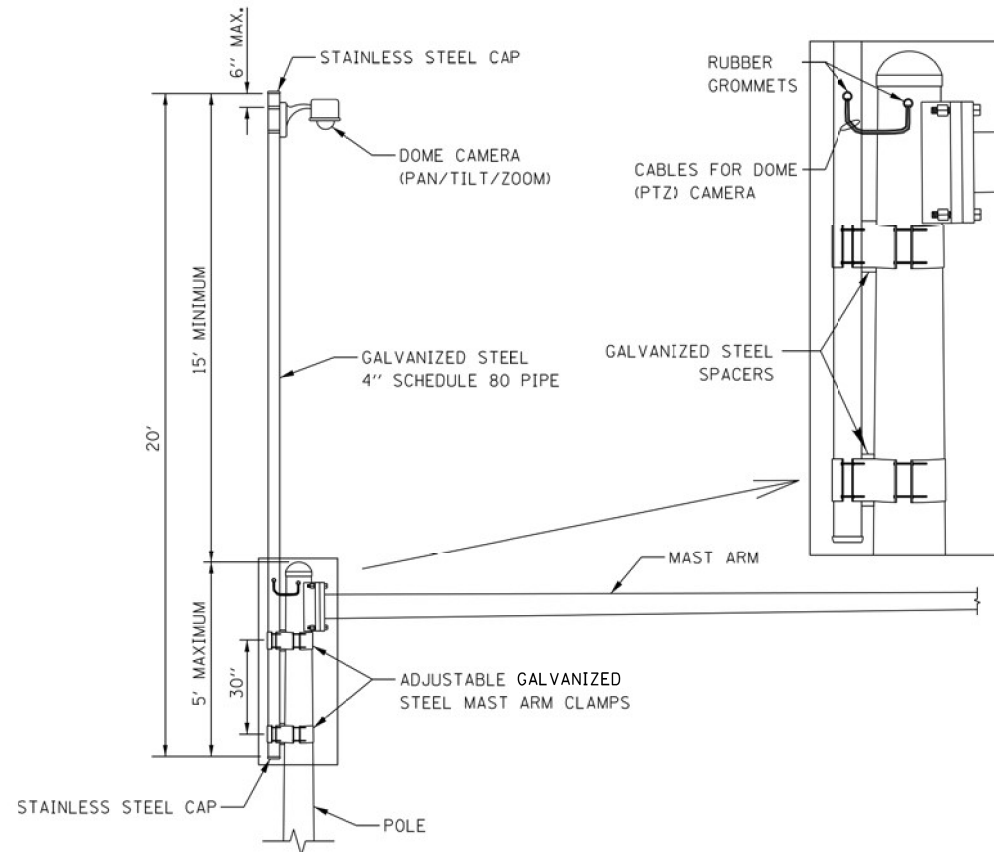


TYPICAL VIDEO VEHICLE DETECTION SYSTEM
(NOT TO SCALE)

(4) VIDEO DETECTION CAMERA ASSEMBLIES AND BRACKETS ① ② ③ ④

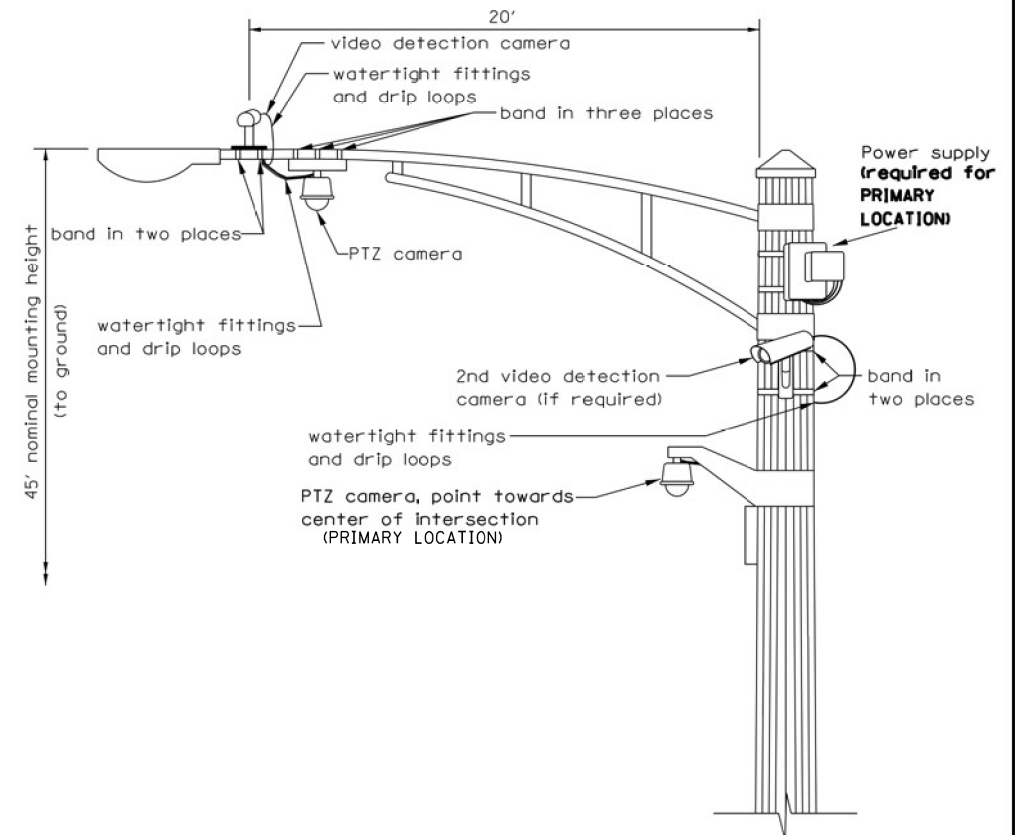


COMBINATION MAST ARM ASSEMBLY AND POLE DIMENSIONS
(NOT TO SCALE)



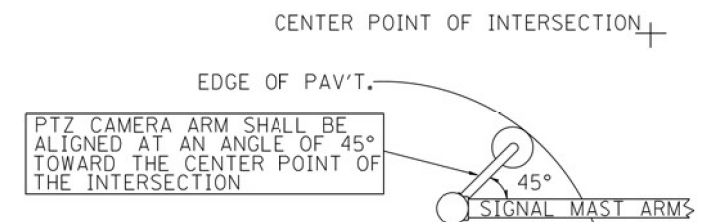
CAMERA MOUNTING ASSEMBLY DETAIL
(NOT TO SCALE)

- NOTES:**
- THE MAST ARM IS TAPERED.
 - INSTALL EXTENSION POLE VERTICAL AND PLUMB BY MODIFYING/INSTALLING BRACKETS AS NECESSARY. ADDITIONAL SPACERS REQUIRED ARE INCLUDED IN THE COST OF THE CAMERA MOUNTING ASSEMBLY OF THE TYPE SPECIFIED.
 - SPACERS ARE TO BE INTEGRATED OR MANUFACTURED WITH THE MAST ARM BRACKETS



VIDEO DETECTION CAMERA(S) AND DOME (PTZ) CAMERA MOUNTING DETAIL
(NOT TO SCALE)

- NOTES FOR SINGLE, DUAL AND MULTIPLE CAMERA MOUNTING:**
- MOUNT LUMINAIRE MOUNTING BRACKET AS HIGH AS POSSIBLE.
 - MOUNT VIDEO DETECTION CAMERA AIMING DOWN TOWARD THE DIRECTION OF TRAFFIC TO BE DETECTED.



PTZ CAMERA MOUNTING DETAILS (SECONDARY LOCATION)
(NO SCALE)

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR3-518-Contracts Phase 3\CADD_Sheets\203_CAMERA_MOUNTING_DETAIL.dgn

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DRAWN - KK	REVISIONS -	
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PLOT DATE = #DATE#	DATE - 06/30/2022	REVISIONS -

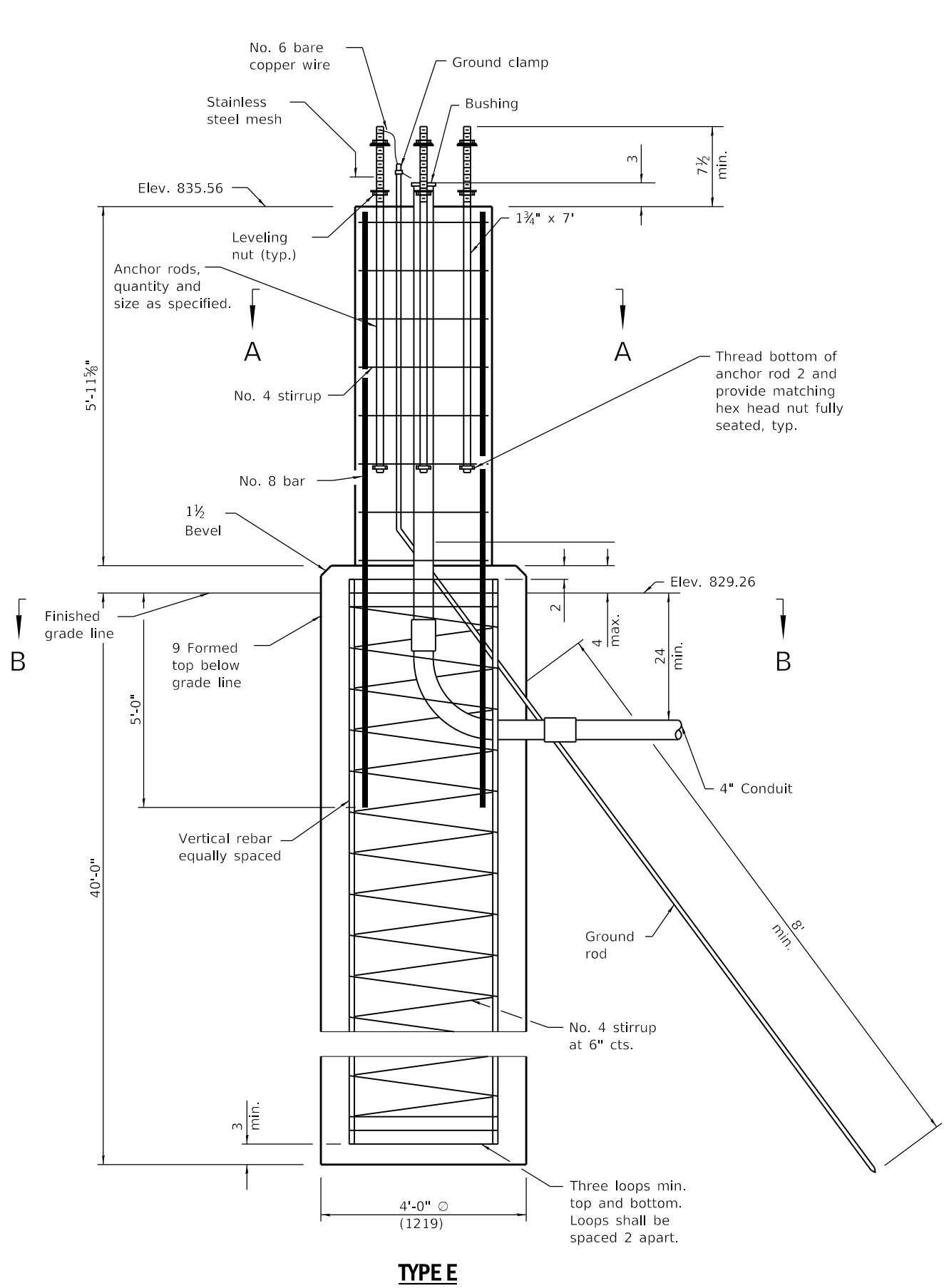
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CAMERA MOUNTING DETAIL

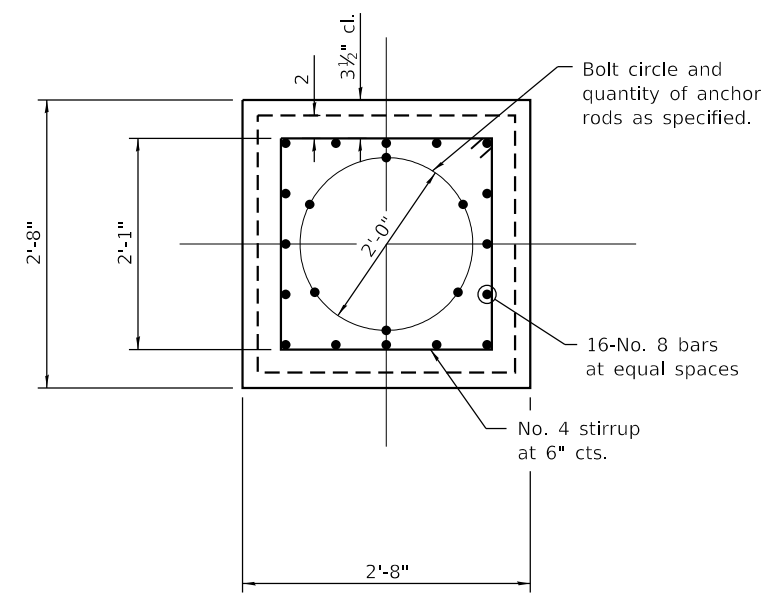
SCALE: SHEET 12 OF 43 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	345
CONTRACT NO.				61193
ILLINOIS FED. AID PROJECT				

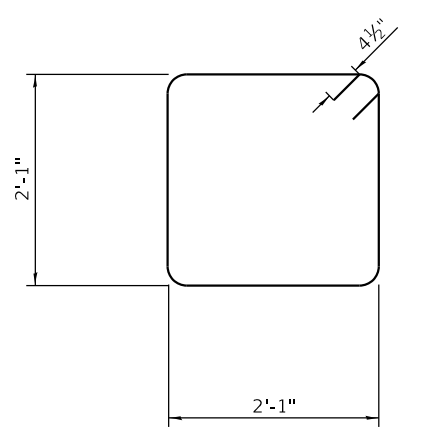
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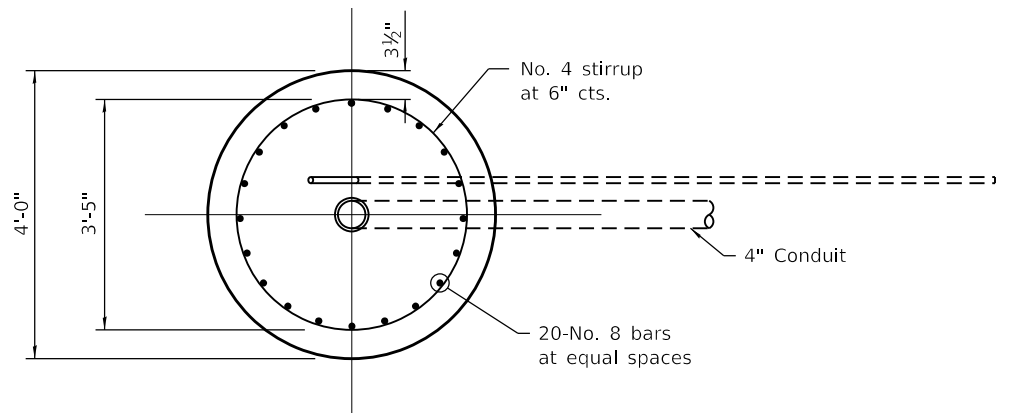
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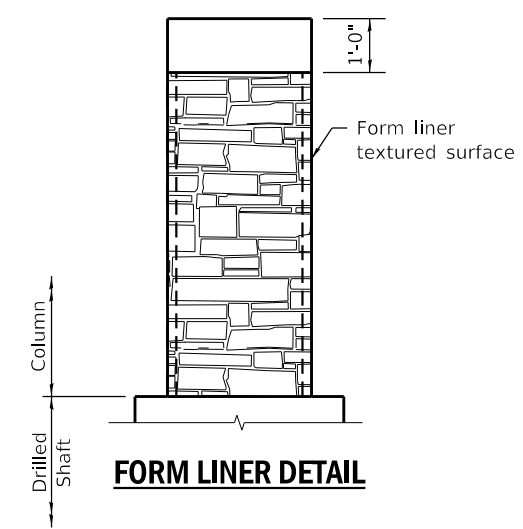
SECTION A-A



STIRRUP BAR DETAIL IN CONCRETE COLUMN



SECTION B-B



FORM LINER DETAIL

NOTES:

1. Form Liner Textured Surface shall be inset into the face of the column up to 1 1/2" deep and 1" wide.
2. Anti-Graffiti Coating shall be applied to all exposed faces of the column.
3. Concrete Staining shall be applied to areas of Form Liner Textured Surface.
4. All dimension are in inches unless otherwise shown.

USER NAME = btwegner	DESIGNED - JE	REVISED -
DRAWN - JE	REVISED -	
PLOT SCALE = 100.0000' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MAST ARM AND POLE FOUNDATION
CONCRETE FOUNDATIONS (SPECIAL)**

SCALE: NONE SHEET 13 OF 43 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	346
CONTRACT NO. 61J93			ILLINOIS FED. AID PROJECT	

NOTES:

1. THE TEMPORARY TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
2. BARREL MOUNTED POSTS WITH PEDESTRIAN SIGNAL HEADS AND APS PUSH-BUTTONS SHALL BE PROVIDED FOR ALL CROSSWALKS THAT ARE ACTIVE DURING THE CONSTRUCTION STAGE. BARREL MOUNTED POSTS SHALL BE RELOCATED AS NEEDED, TO ENSURE THAT ALL ACTIVE PEDESTRIAN SIGNALS AND APS PUSH-BUTTONS ARE LOCATED PER DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS. REFER TO NOTES ON TEMPORARY CABLE PLAN FOR ACTIVE PEDESTRIAN PHASES BY CONSTRUCTION STAGE. INACTIVE PEDESTRIAN SIGNAL HEADS SHALL BE DE-ENERGIZED AND BAGGED. INACTIVE APS PUSH-BUTTONS SHALL BE DE-ENERGIZED AND COVERED OR REMOVED.

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND DELIVER ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

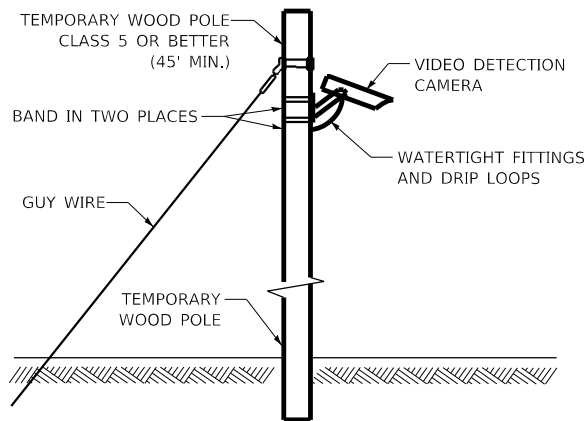
- AGENCY: MCHENRY COUNTY DEPARTMENT OF TRANSPORTATION
- 1 EACH CONTROLLER AND CABINET (COMPLETE)
 - 1 EACH UNINTERUPTABLE POWER SUPPLY

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND DELIVER ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- AGENCY: ALGONQUIN - LAKE IN THE HILLS FIRE PROTECTION DISTRICT
- 3 EACH LIGHT DETECTOR
 - 3 EACH CONFIRMATION BEACON
 - 1 EACH LIGHT DETECTOR AMPLIFIER

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 12 EACH 3-SECTION SIGNAL HEAD
- 6 EACH 5-SECTION SIGNAL HEAD
- 10 EACH TRAFFIC SIGNAL BACKPLATE
- 2 EACH PEDESTRIAN SIGNAL HEAD
- 2 EACH PEDESTRIAN PUSH-BUTTON
- 4 EACH STEEL MAST ARM AND POLE
- 4 EACH TRAFFIC SIGNAL POST
- 1 EACH SERVICE INSTALLATION



TEMPORARY VIDEO DETECTION MOUNTING DETAIL (NOT TO SCALE)

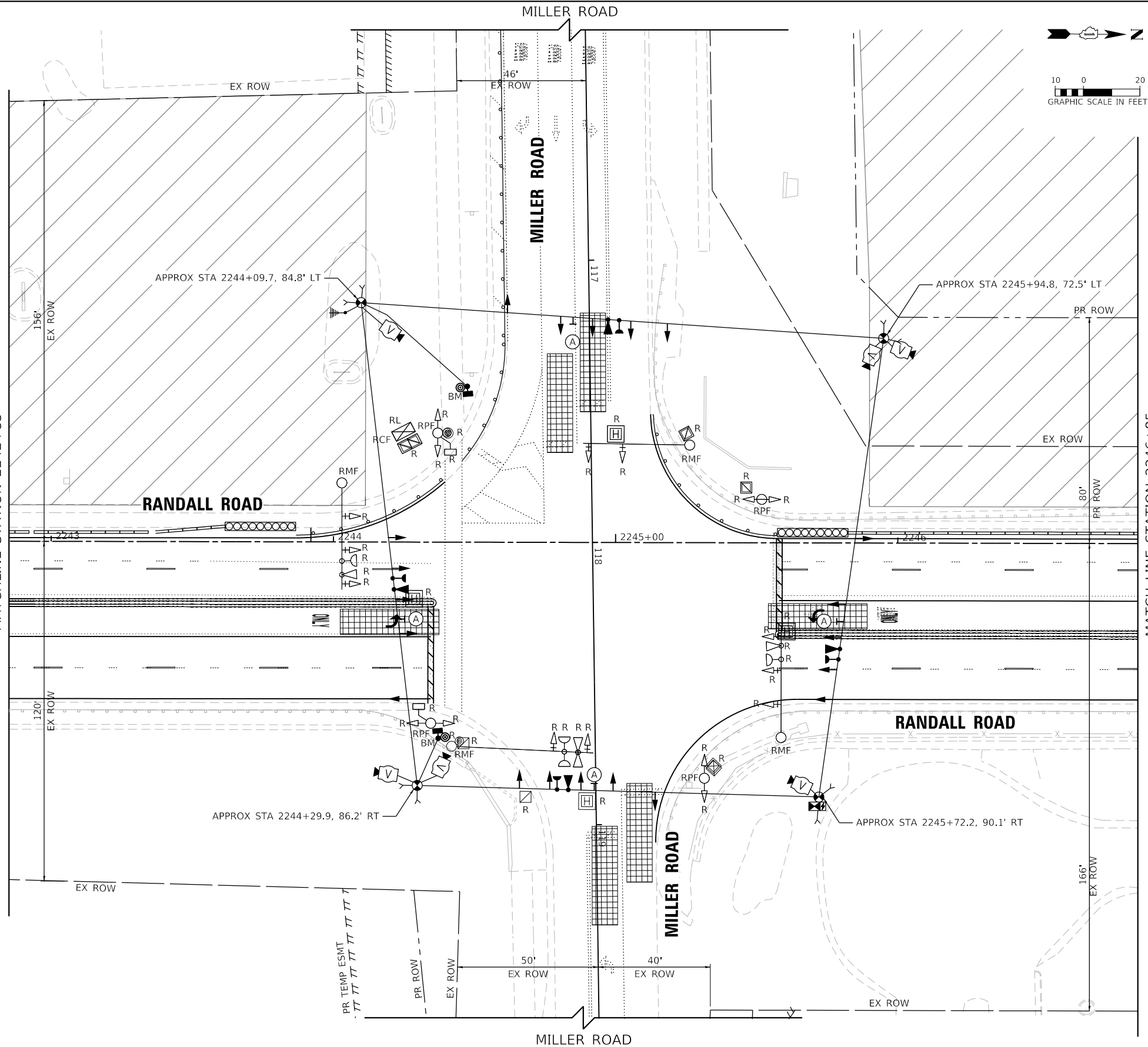
LEFT ON GREEN ARROW ONLY

R10-5
4 REQUIRED
30"X36"
SIGN PANEL TYPE 1

(A)

INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION

SEE SHEET NO. 348
MATCHLINE STATION 2242+85

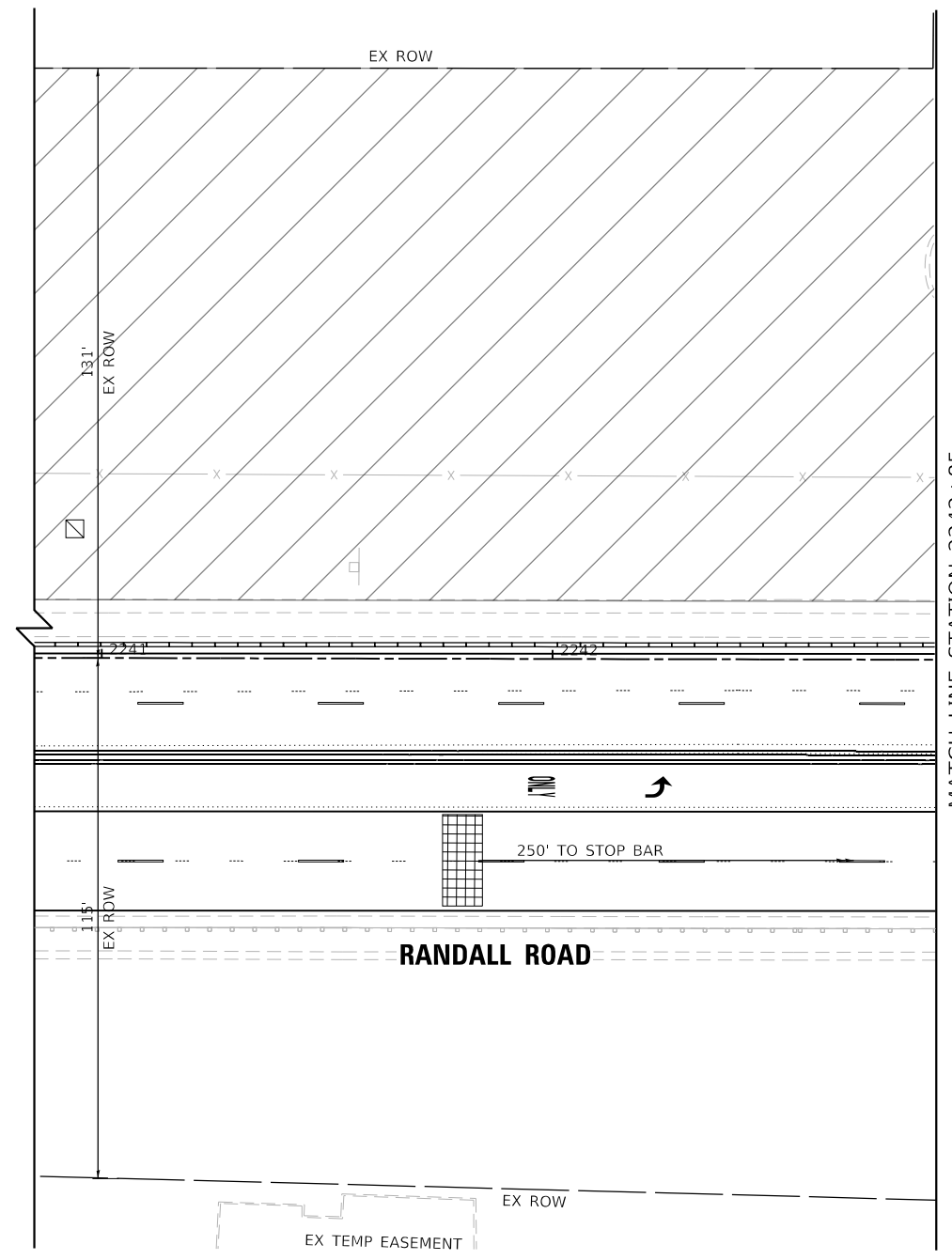
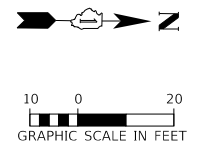


MATCH LINE STATION 2246+85
SEE SHEET NO. 348

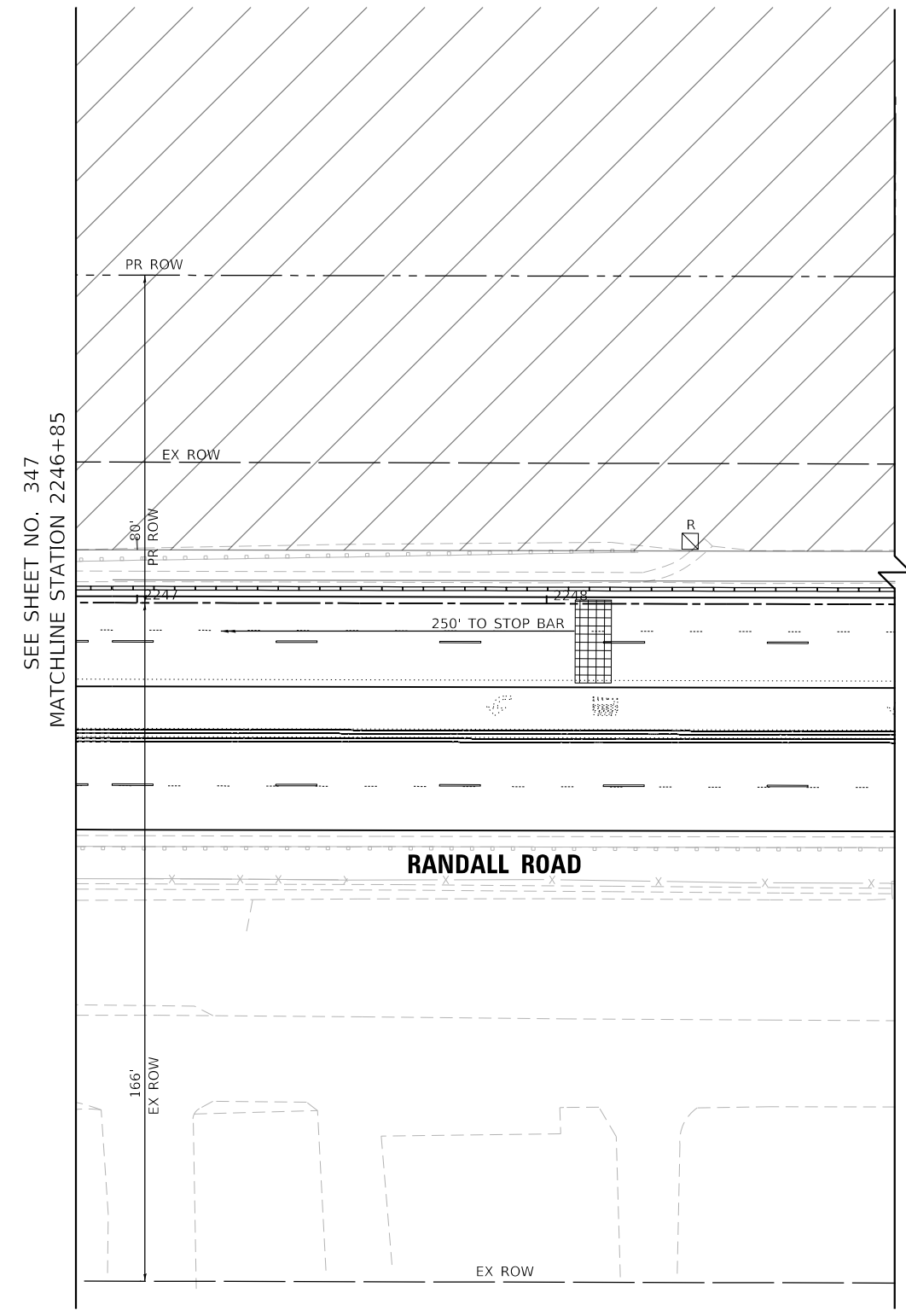
MOT PRESTAGE AND STAGE 1

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SFN-DGN	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

F.A.P. RTE. 336	SECTION 06-00329-02-PW	COUNTY MCHENRY	TOTAL SHEETS 735	SHEET NO. 347
CONTRACT NO. 61J93			ILLINOIS FED. AID PROJECT	



MATCH LINE STATION 2242+85
SEE SHEET NO. 347



SEE SHEET NO. 347
MATCHLINE STATION 2246+85

MOT PRESTAGE AND STAGE 1

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: D:\XXXXX\SHI\T50202\T5-Miller02.dgn

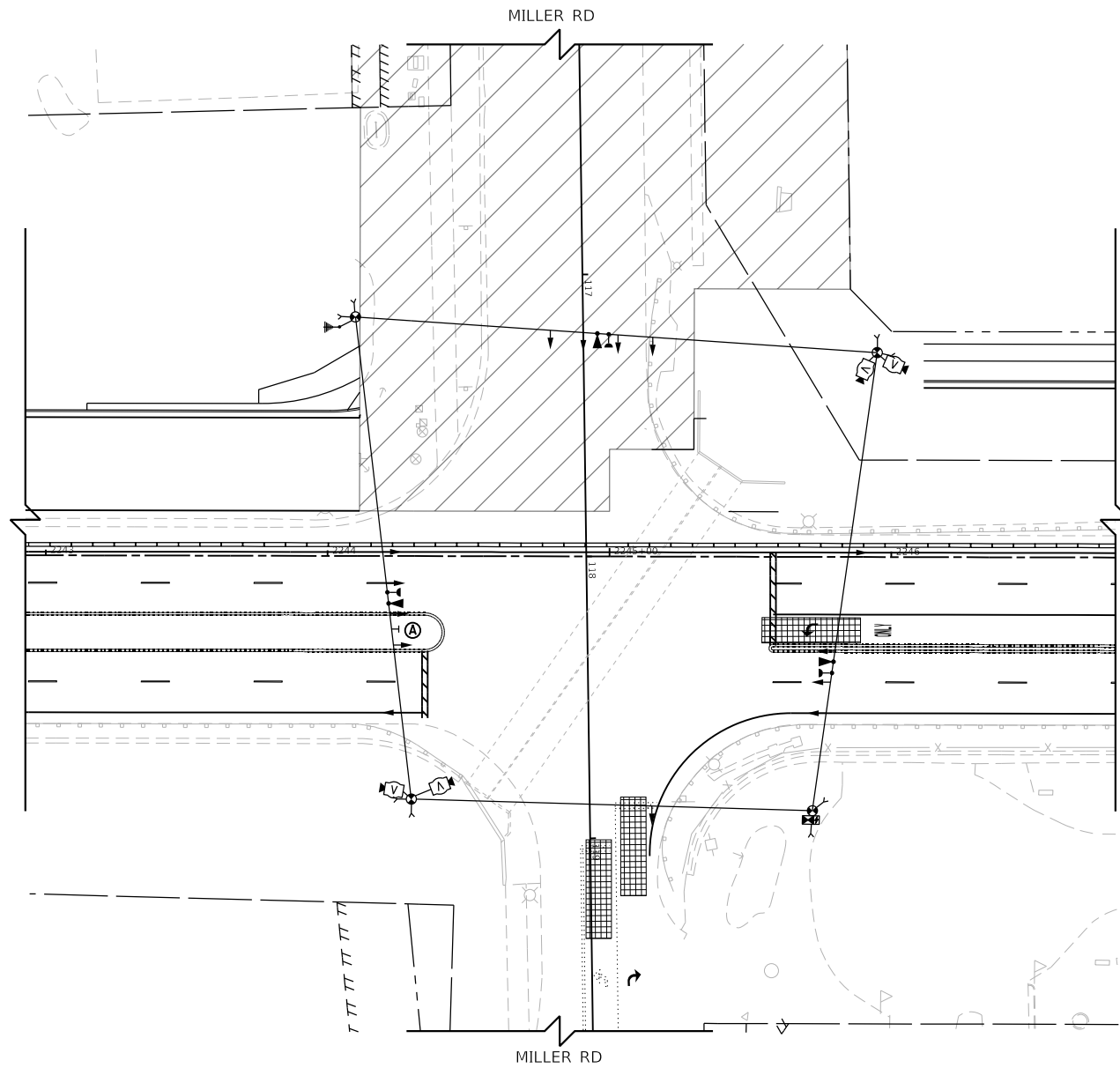
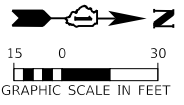
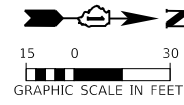
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

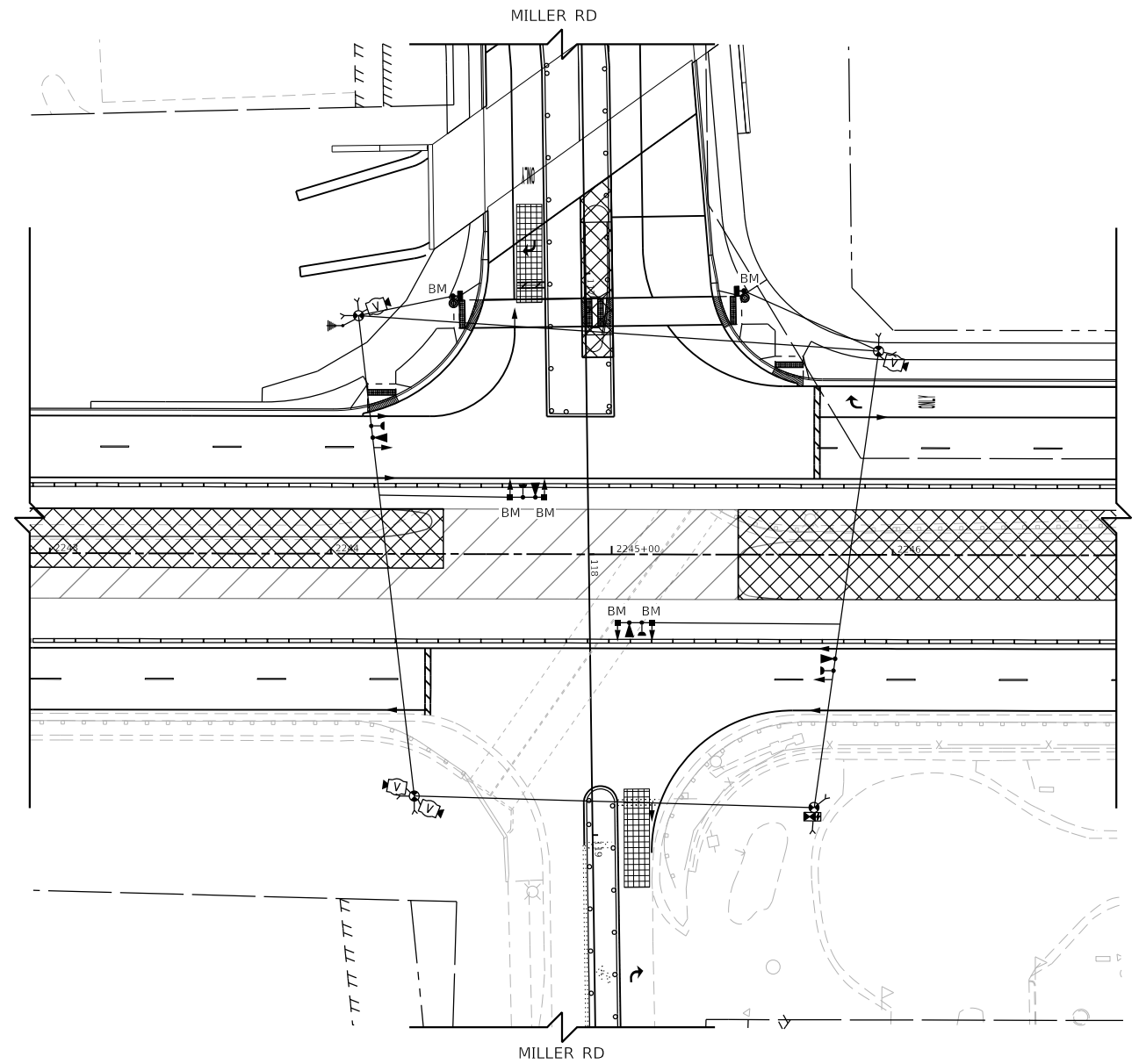
**TEMPORARY TRAFFIC SIGNAL INSTALLATION & REMOVAL PLAN
RANDALL RD AT MILLER RD**

SCALE: 1" = 20' SHEET 15 OF 43 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	348
CONTRACT NO. 61J93				
ILLINOIS		FED. AID PROJECT		



TEMPORARY TRAFFIC SIGNAL
STAGE 1 WITH CLOSURE



TEMPORARY TRAFFIC SIGNAL STAGE 2

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAMBERG, ILLINOIS 60173
(847) 605-9600

FILE NAME: D:\XXXXX-SHT-TS0203-TTS-Miller03.dgn

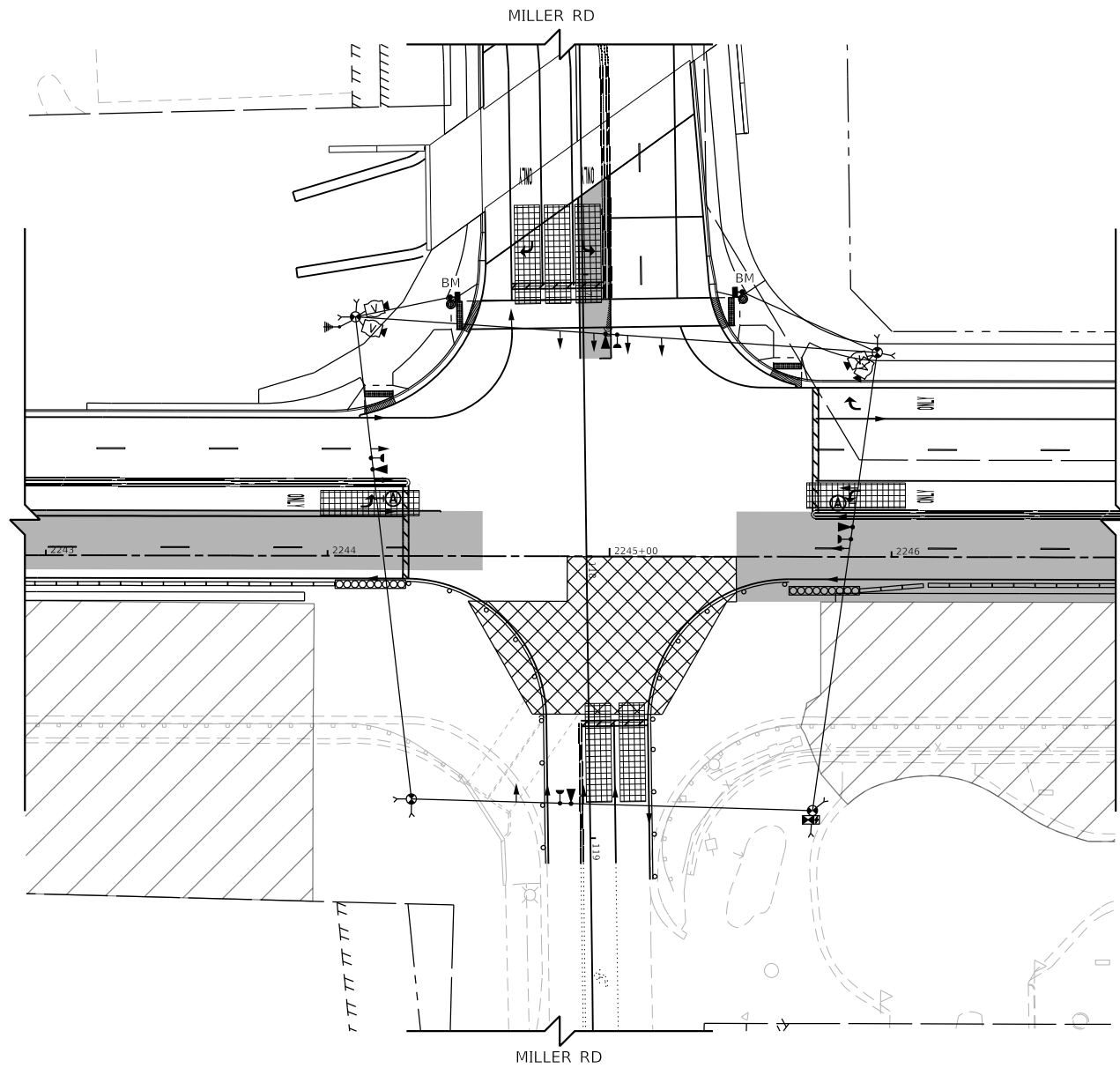
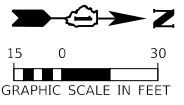
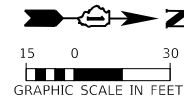
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

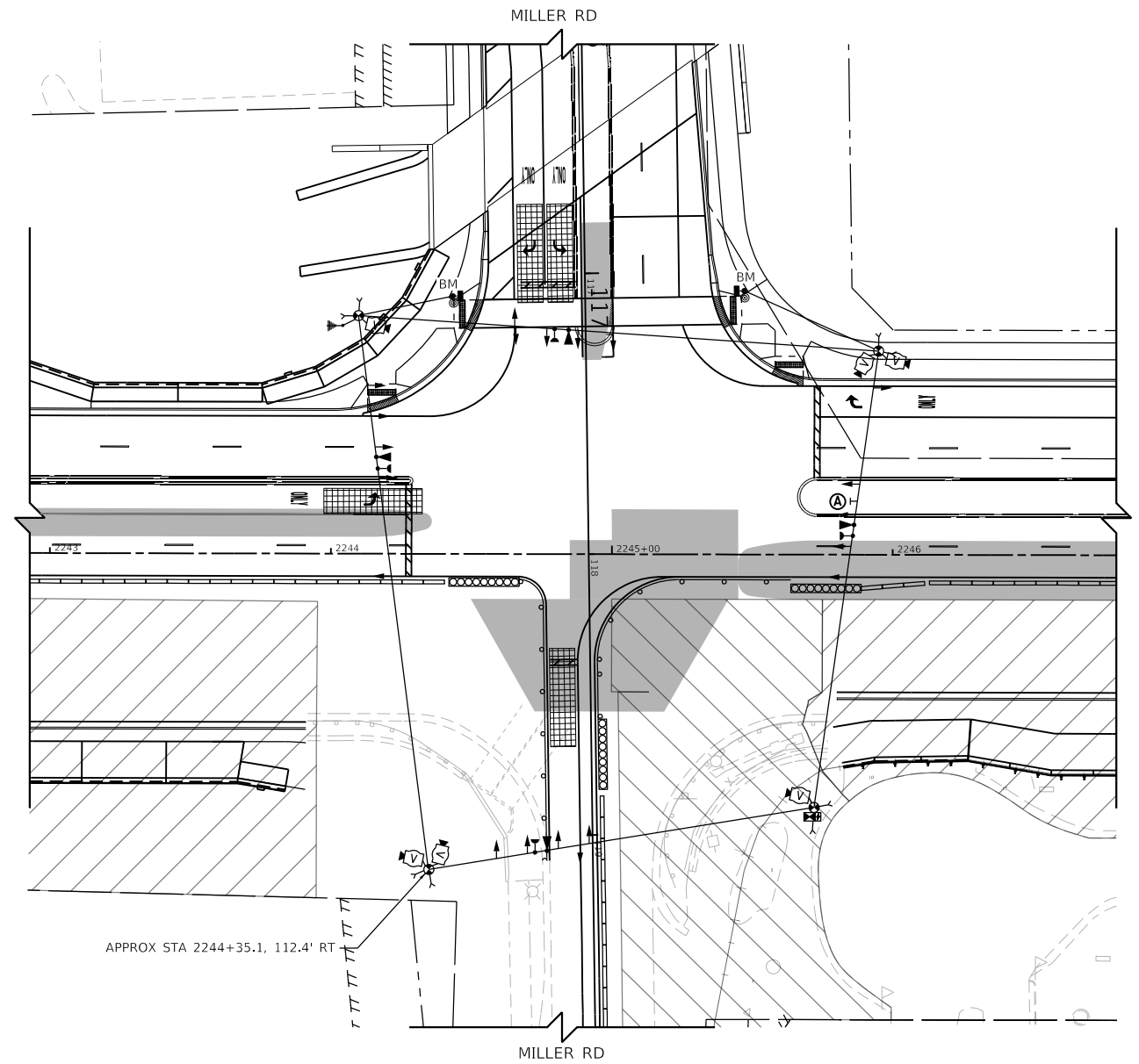
**TEMPORARY TRAFFIC SIGNAL INSTALLATION, M.O.T. STAGING PLAN
RANDALL RD AT MILLER RD**

SCALE: 1" = 30' SHEET 16 OF 43 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	349
			CONTRACT NO. 61J93	
ILLINOIS FED. AID PROJECT				



TEMPORARY TRAFFIC SIGNAL STAGE 3



TEMPORARY TRAFFIC SIGNAL STAGE 3A

TRANSYSTEMS
 1475 EAST WOODFIELD ROAD, SUITE 600
 SCHAMBERG, ILLINOIS 60173
 (847) 605-9600

FILE NAME: D:\XXXXX\SHI\TSD03\TTS-Miller.dgn

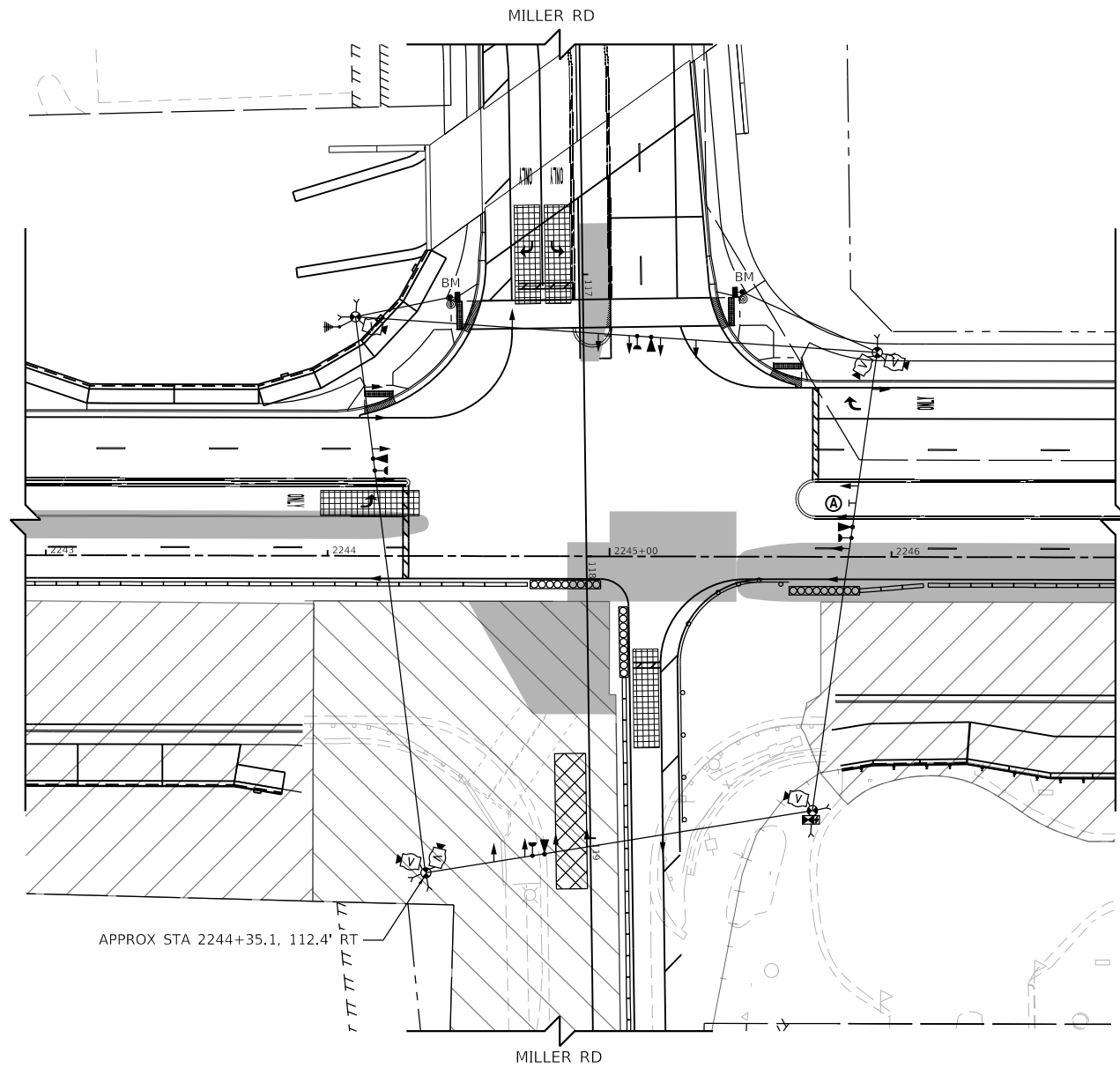
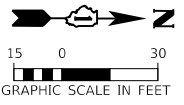
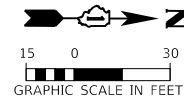
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SFN-DGN	DRAWN - BTW	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

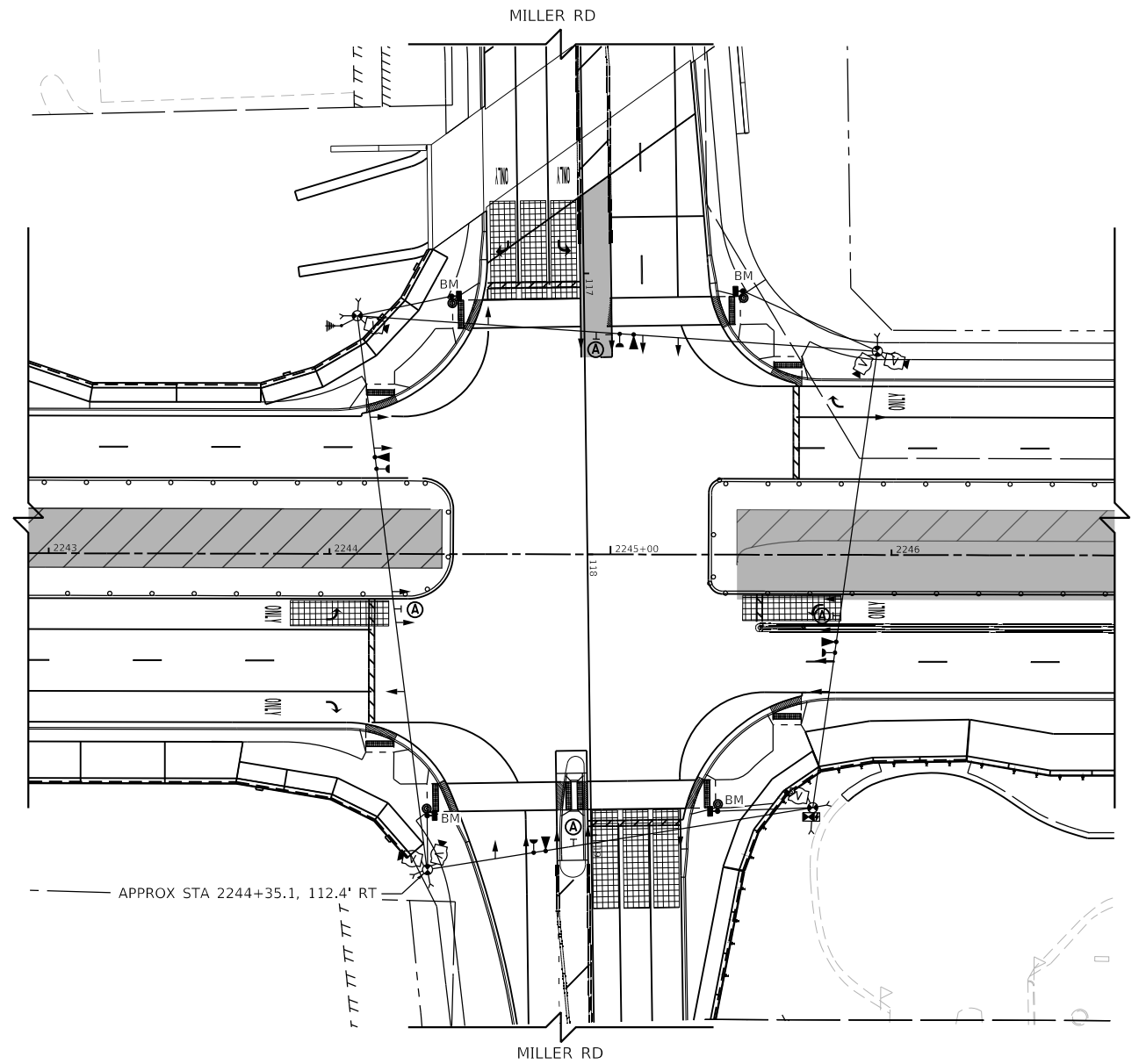
**TEMPORARY TRAFFIC SIGNAL INSTALLATION, M.O.T. STAGING PLAN
 RANDALL RD AT MILLER RD**

SCALE: 1" = 30' SHEET 17 OF 43 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	350
			CONTRACT NO. 61J93	
ILLINOIS FED. AID PROJECT				



TEMPORARY TRAFFIC SIGNAL STAGE 3B



TEMPORARY TRAFFIC SIGNAL STAGE 4

TRANSYSTEMS
 1475 EAST WOODFIELD ROAD, SUITE 600
 SCHAMBURG, ILLINOIS 60173
 (847) 605-9600

FILE NAME: D:\XXXXX\SHI\TSD03\TTS-Miller.dgn

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SFN-DGN	DRAWN - BTW	REVISED -
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PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

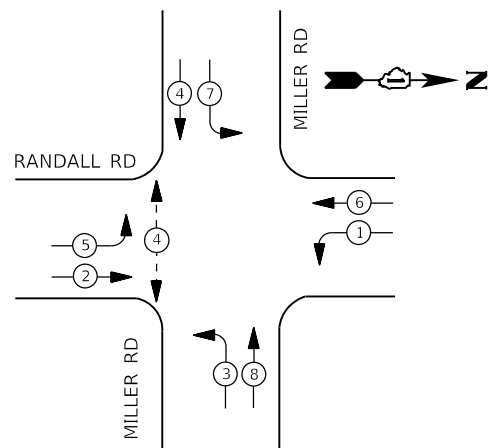
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION, M.O.T. STAGING PLAN
 RANDALL RD AT MILLER RD**

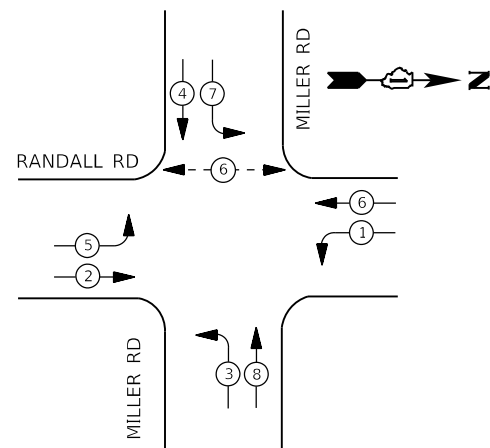
SCALE: 1" = 30' SHEET 18 OF 43 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	351
			CONTRACT NO. 61J93	
ILLINOIS FED. AID PROJECT				

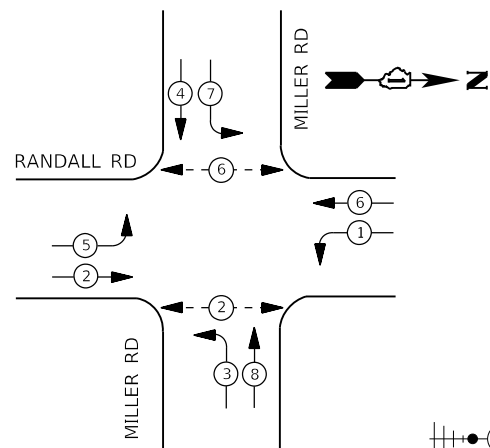
**PRESTAGE AND STAGE 1
TEMPORARY CONTROLLER SEQUENCE**



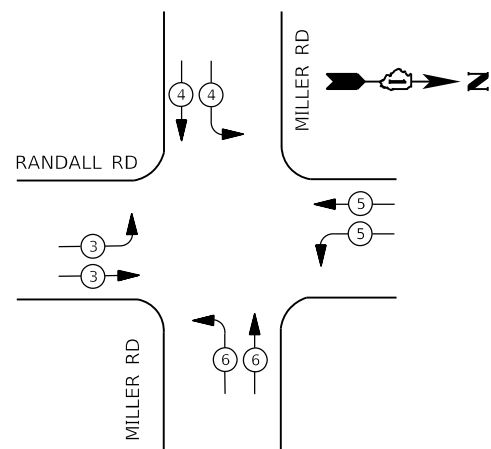
**STAGE 3
TEMPORARY CONTROLLER SEQUENCE**



**STAGE 4
TEMPORARY CONTROLLER SEQUENCE**

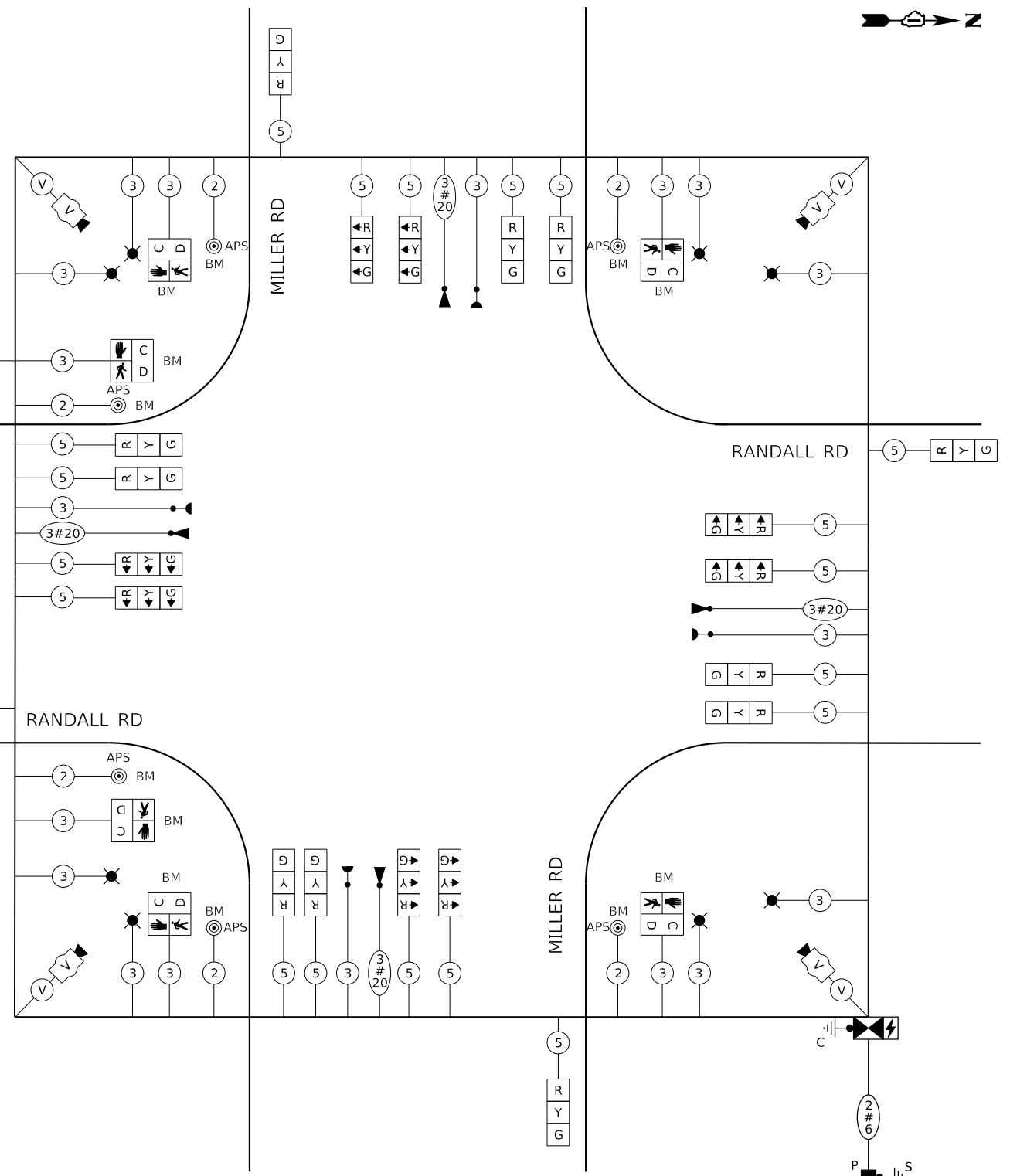


TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND

- ← * → PROTECTED PHASE
- ← - * - → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ↔ OL OVERLAP



**TEMPORARY CABLE PLAN
(PRESTAGE, STAGE 1, 3, AND 4)**

TEMPORARY TRAFFIC SIGNAL: PRESTAGE, STAGE 1, & STAGE 3					TEMPORARY TRAFFIC SIGNAL: STAGE 4				
IDOT Traffic Signal Installation Electrical Service Requirements					IDOT Traffic Signal Installation Electrical Service Requirements				
Type	Number of Lamps	LED Wattage	% Operations	Total Wattage	Type	Number of Lamps	LED Wattage	% Operations	Total Wattage
Signal Red	20	11	50%	110.0	Signal Red	20	11	50%	110.0
Signal Yellow	20	20	5%	20.0	Signal Yellow	20	20	5%	20.0
Signal Green	20	12	45%	108.0	Signal Green	20	12	45%	108.0
Prot-Perm Arrow		10	10%		Prot-Perm Arrow		10	10%	
Ped. Signal	2	20	100%	40.0	Ped. Signal	4	20	100%	80.0
Controller	1	100	100%	100.0	Controller	1	100	100%	100.0
UPS	1	25	100%	25.0	UPS	1	25	100%	25.0
Video System	1	150	100%	150.0	Video System	1	150	100%	150.0
Blank-Out Sign		25	5%		Blank-Out Sign		25	5%	
Flasher			50%		Flasher			50%	
Street Name Sign		120	50%		Street Name Sign		120	50%	
Luminaire	8	285	50%	1140.0	Luminaire	8	285	50%	1140.0
Total Intersection Wattage				1693.0	Total Intersection Wattage				1733.0

ENERGY COSTS TO:
VILLAGE OF LAKE IN THE HILLS
 600 HARVEST GATE ROAD
 LAKE IN THE HILLS, ILLINOIS 60156
 ENERGY SUPPLY: CONTACT: _____
 PHONE: () - - - -
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: _____

ENERGY COSTS TO:
VILLAGE OF LAKE IN THE HILLS
 600 HARVEST GATE ROAD
 LAKE IN THE HILLS, ILLINOIS 60156
 ENERGY SUPPLY: CONTACT: _____
 PHONE: () - - - -
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: _____

USER NAME = btwegner	DESIGNED - BTW	REVISED -
SFN-TSP11	DRAWN - BTW	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - GR	REVISED -
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM
RANDALL RD AT MILLER RD**

SCALE: NONE SHEET 19 OF 43 SHEETS STA. TO STA.

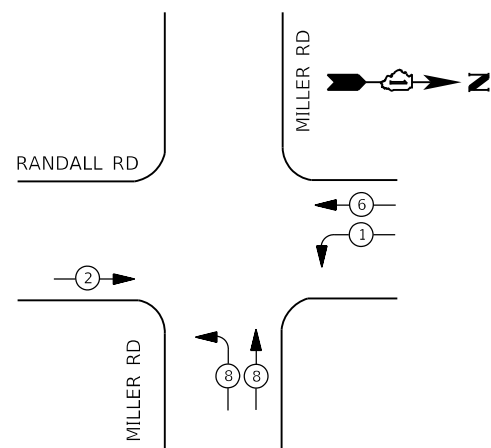
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	352
			CONTRACT NO. 61J93	
ILLINOIS FED. AID PROJECT				

THE TEMPORARY TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TRANSYSTEMS
 1475 EAST WOODFIELD ROAD, SUITE 600
 SCHAMBERG, ILLINOIS 60173
 (847) 605-9600

FILE NAME: D:\XXXXX\SH150220-TS-MIRK

TEMPORARY CONTROLLER SEQUENCE

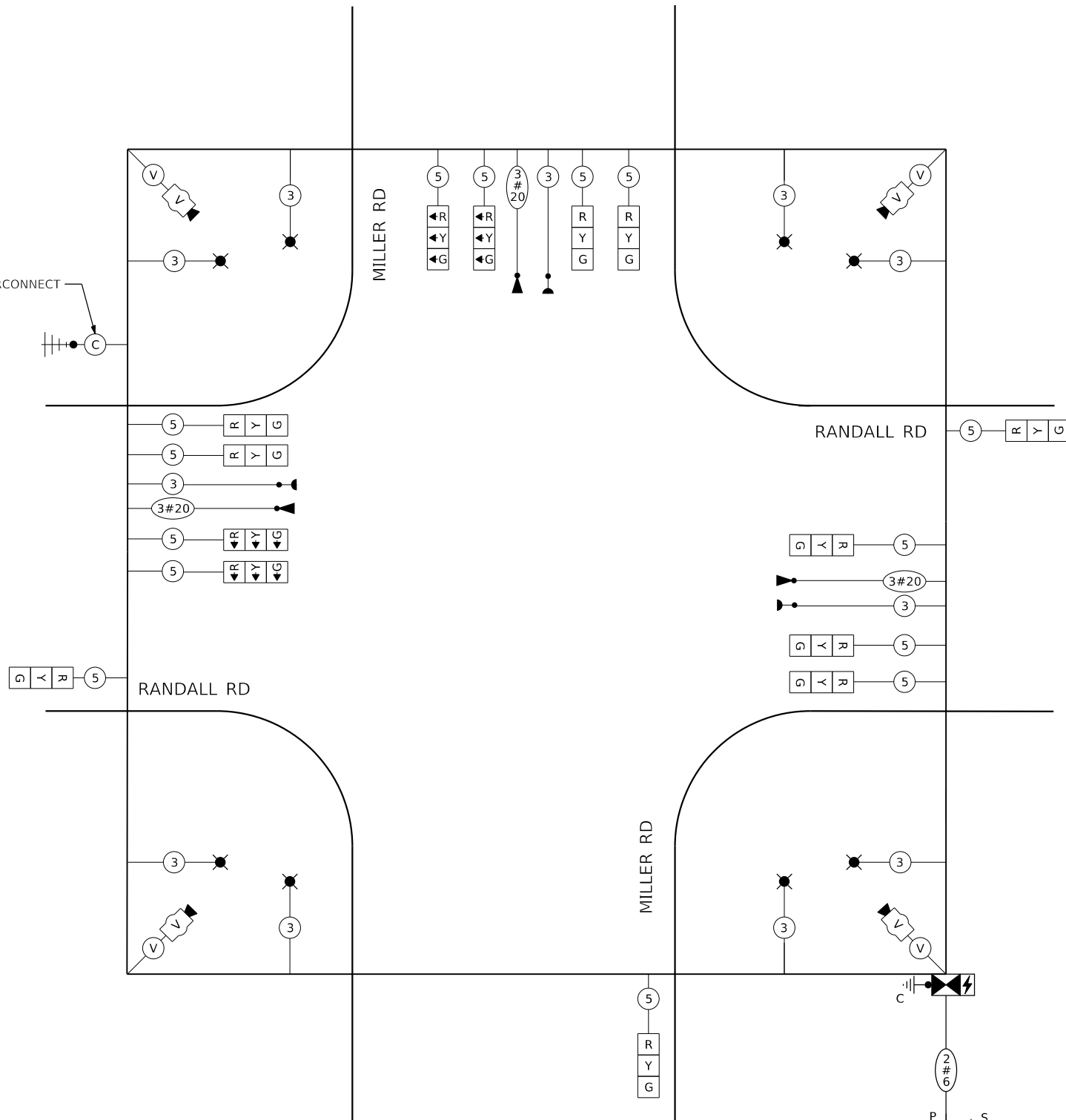
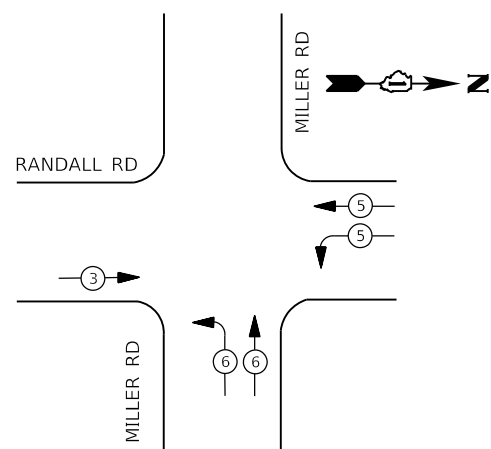


LEGEND

- ← ⊛ — PROTECTED PHASE
- ← ⊛ - — PROTECTED/PERMITTED PHASE
- ← ⊛ → — PEDESTRIAN PHASE
- ⊛ OL — OVERLAP

TEMPORARY WIRELESS INTERCONNECT TO POLARIS DR/ ACORN LN

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY CABLE PLAN (STAGE 1 WITH CLOSURE)

THE TEMPORARY TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

IDOT Traffic Signal Installation Electrical Service Requirements

Type	Number of Lamps	LED Wattage	% Operations	Total Wattage
Signal Red	14	11	50%	77.0
Signal Yellow	14	20	5%	14.0
Signal Green	14	12	45%	75.6
Prot-Perm Arrow		10	10%	
Ped. Signal		20	100%	
Controller	1	100	100%	100.0
UPS	1	25	100%	25.0
Video System	1	150	100%	150.0
Blank-Out Sign		25	5%	
Flasher			50%	
Street Name Sign		120	50%	
Luminaire	8	285	50%	1140.0
Total Intersection Wattage				1581.6

ENERGY COSTS TO:

VILLAGE OF LAKE IN THE HILLS
600 HARVEST GATE ROAD
LAKE IN THE HILLS, ILLINOIS 60156

ENERGY SUPPLY: CONTACT: _____
PHONE: (____) _____
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: _____

USER NAME =	btwegner
SFN-TSP11	
PLOT SCALE =	40.0000 "/in.
PLOT DATE =	6/11/2024

DESIGNED -	BTW	REVISED -	
DRAWN -	BTW	REVISED -	
CHECKED -	GR	REVISED -	
DATE -	6/14/2024	REVISED -	

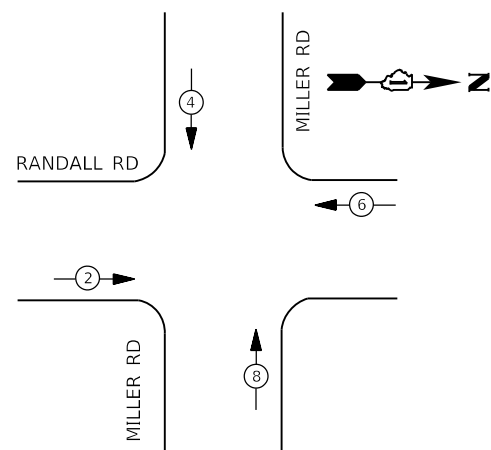
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM RANDALL RD AT MILLER RD

SCALE: NONE SHEET 20 OF 43 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	353
			CONTRACT NO. 61J93	
ILLINOIS FED. AID PROJECT				

TEMPORARY CONTROLLER SEQUENCE

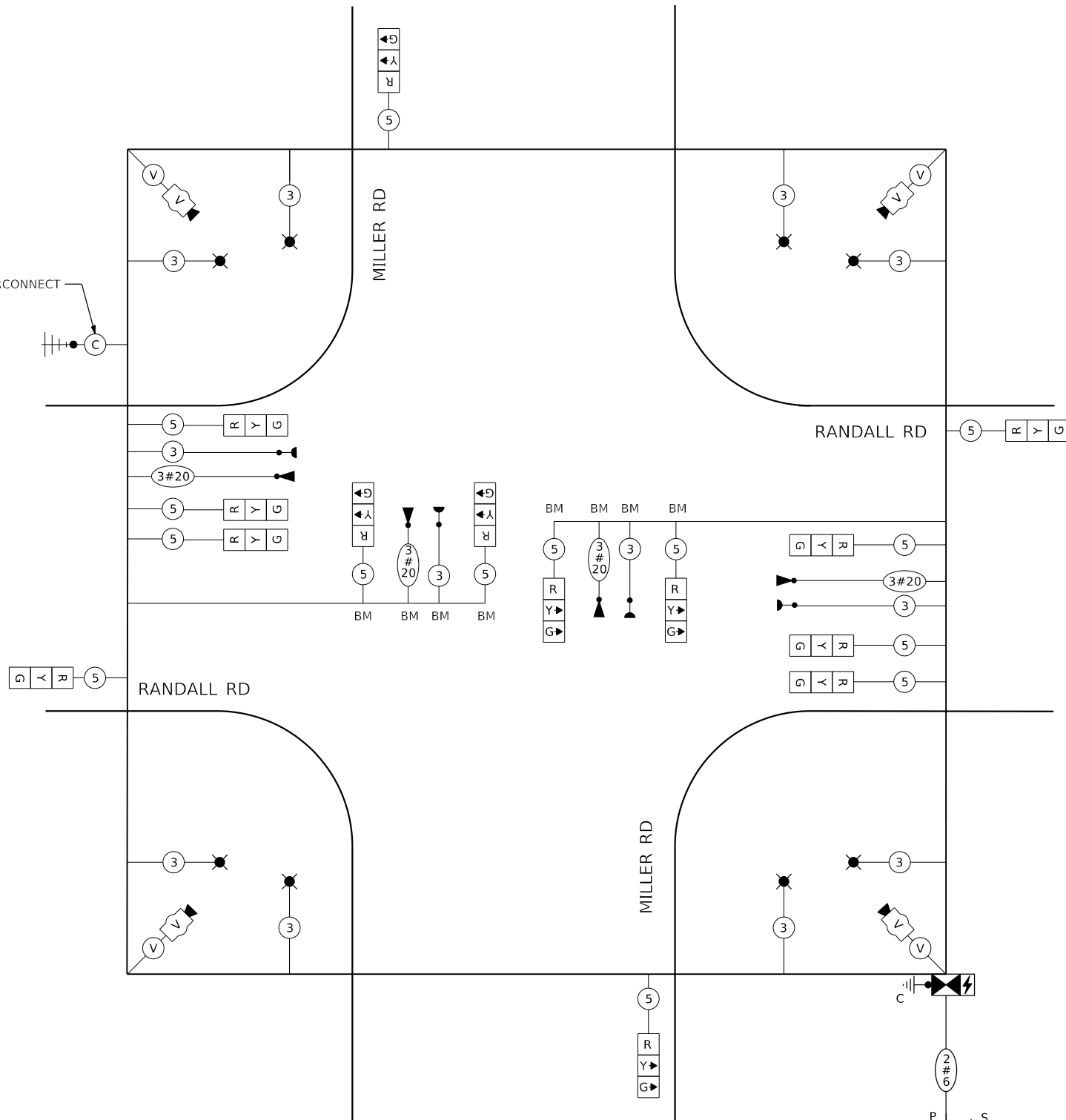
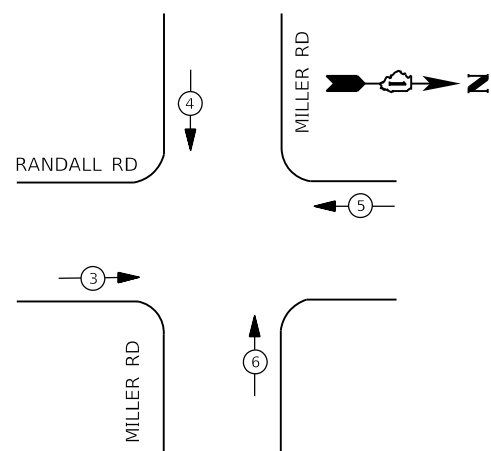


LEGEND

- ← ⊙ ← PROTECTED PHASE
- ← ⊙ - - PROTECTED/PERMITTED PHASE
- ← ⊙ ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL OVERLAP

TEMPORARY WIRELESS INTERCONNECT TO POLARIS DR/ ACORN LN

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY CABLE PLAN (STAGE 2)

THE TEMPORARY TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

IDOT Traffic Signal Installation Electrical Service Requirements				
Type	Number of Lamps	LED Wattage	% Operations	Total Wattage
Signal Red	14	11	50%	77.0
Signal Yellow	14	20	5%	14.0
Signal Green	14	12	45%	75.6
Prot-Perm Arrow		10	10%	
Ped. Signal		20	100%	
Controller	1	100	100%	100.0
UPS	1	25	100%	25.0
Video System	1	150	100%	150.0
Blank-Out Sign		25	5%	
Flasher			50%	
Street Name Sign		120	50%	
Luminaire	8	285	50%	1140.0
Total Intersection Wattage				1581.6

ENERGY COSTS TO:

VILLAGE OF LAKE IN THE HILLS
600 HARVEST GATE ROAD
LAKE IN THE HILLS, ILLINOIS 60156

ENERGY SUPPLY: CONTACT: _____
PHONE: () - - - -
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: _____

USER NAME = btwegner	DESIGNED - BTW	REVISED -
SFN-TSP11	DRAWN - BTW	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - GR	REVISED -
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

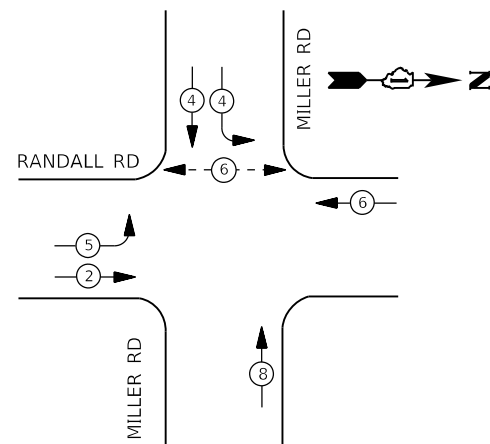
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM RANDALL RD AT MILLER RD

SCALE: NONE SHEET 21 OF 43 SHEETS STA. TO STA.

F.A.P. RTE. 336	SECTION 06-00329-02-PW	COUNTY MCHENRY	TOTAL SHEETS 735	SHEET NO. 354
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J93	

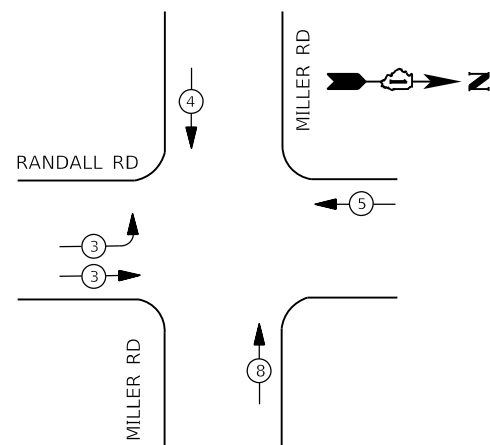
TEMPORARY CONTROLLER SEQUENCE



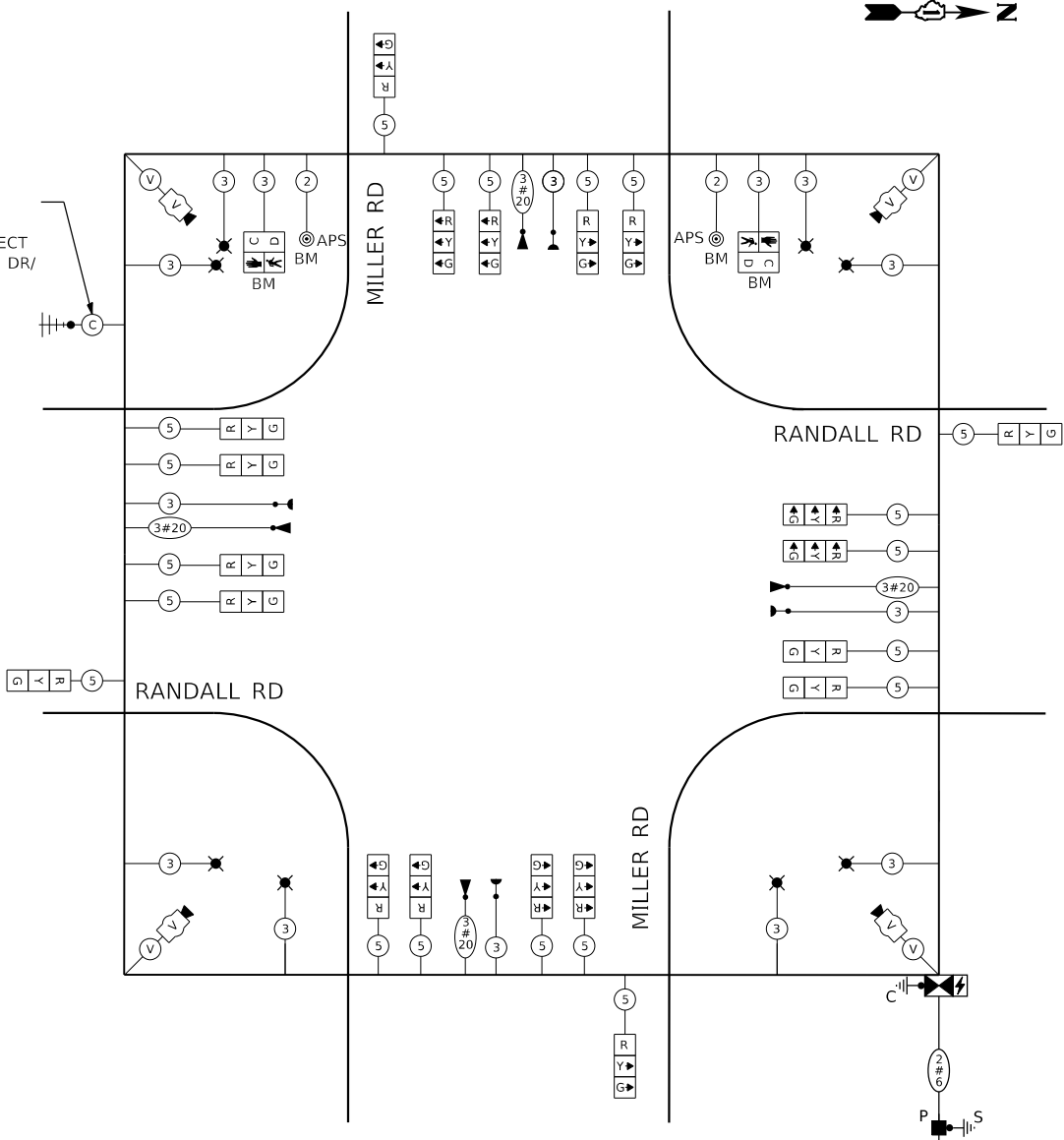
LEGEND

- ← (⊛) ← PROTECTED PHASE
- ← (⊛) ← PROTECTED/PERMITTED PHASE
- ← (⊛) ← PEDESTRIAN PHASE
- ← (⊛) ← OVERLAP

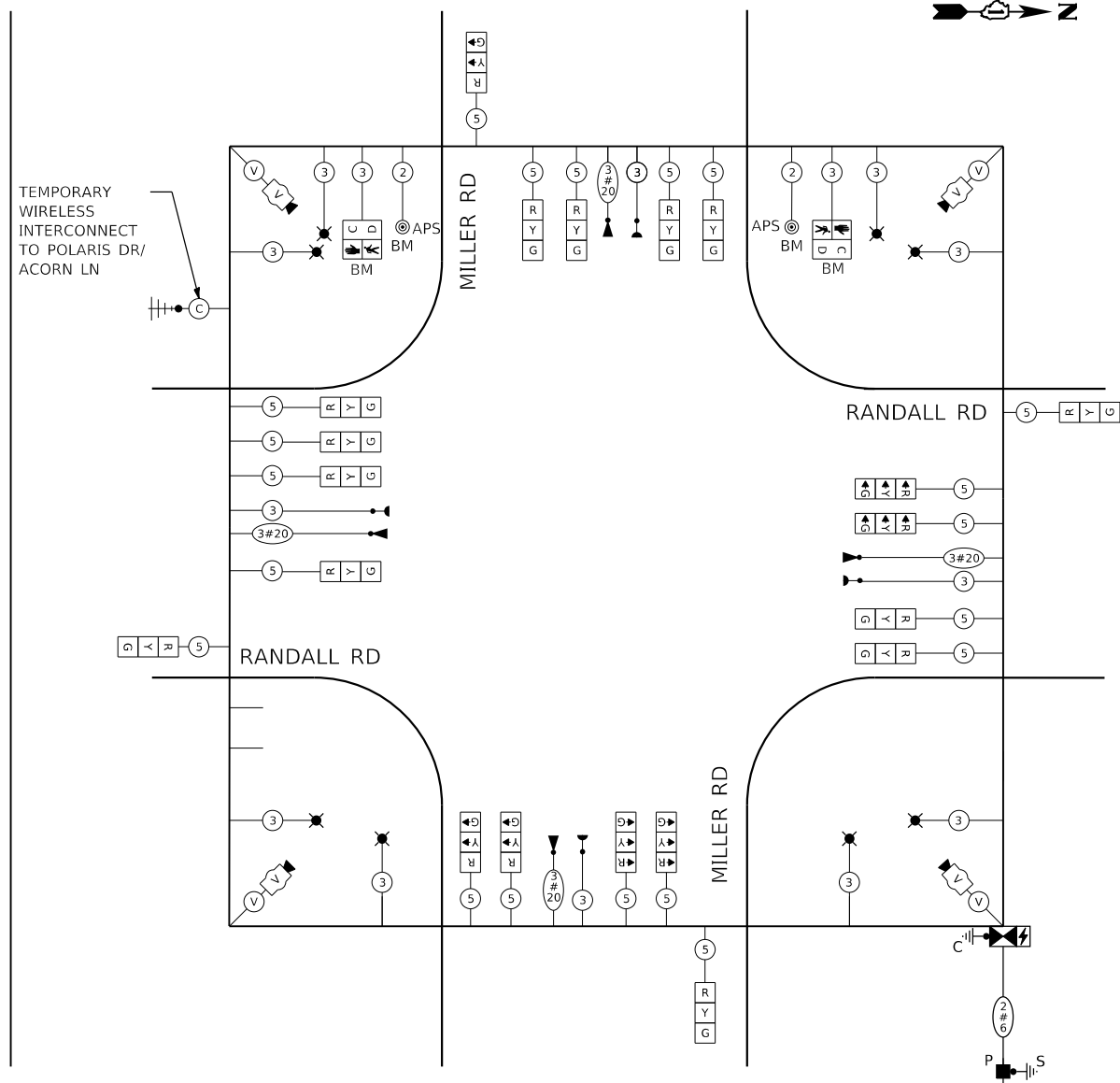
**TEMPORARY EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



TEMPORARY WIRELESS INTERCONNECT TO POLARIS DR/ACORN LN



**TEMPORARY CABLE PLAN
(STAGE 3A)**



**TEMPORARY CABLE PLAN
(STAGE 3B)**

IDOT Traffic Signal Installation Electrical Service Requirements				
Type	Number of Lamps	LED Wattage	% Operations	Total Wattage
Signal Red	20	11	50%	110.0
Signal Yellow	20	20	5%	20.0
Signal Green	20	12	45%	108.0
Prot-Perm Arrow		10	10%	
Ped. Signal	2	20	100%	40.0
Controller	1	100	100%	100.0
UPS	1	25	100%	25.0
Video System	1	150	100%	150.0
Blank-Out Sign		25	5%	
Flasher			50%	
Street Name Sign		120	50%	
Luminaire	8	285	50%	1140.0
Total Intersection Wattage				1693.0

ENERGY COSTS TO:

VILLAGE OF LAKE IN THE HILLS
600 HARVEST GATE ROAD
LAKE IN THE HILLS, ILLINOIS 60156

ENERGY SUPPLY: CONTACT: _____
PHONE: (____) _____
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: _____

THE TEMPORARY TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: D:\XXXXX-SHT-TS0230-TS-Miller.dgn

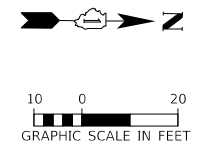
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SFN-TSP11	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GR	REVISED -
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM
RANDALL RD AT MILLER RD**

SCALE: NONE SHEET 22 OF 43 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	355
CONTRACT NO. 61J93				
ILLINOIS FED. AID PROJECT				



- (A)** **LEFT ON GREEN ARROW ONLY**

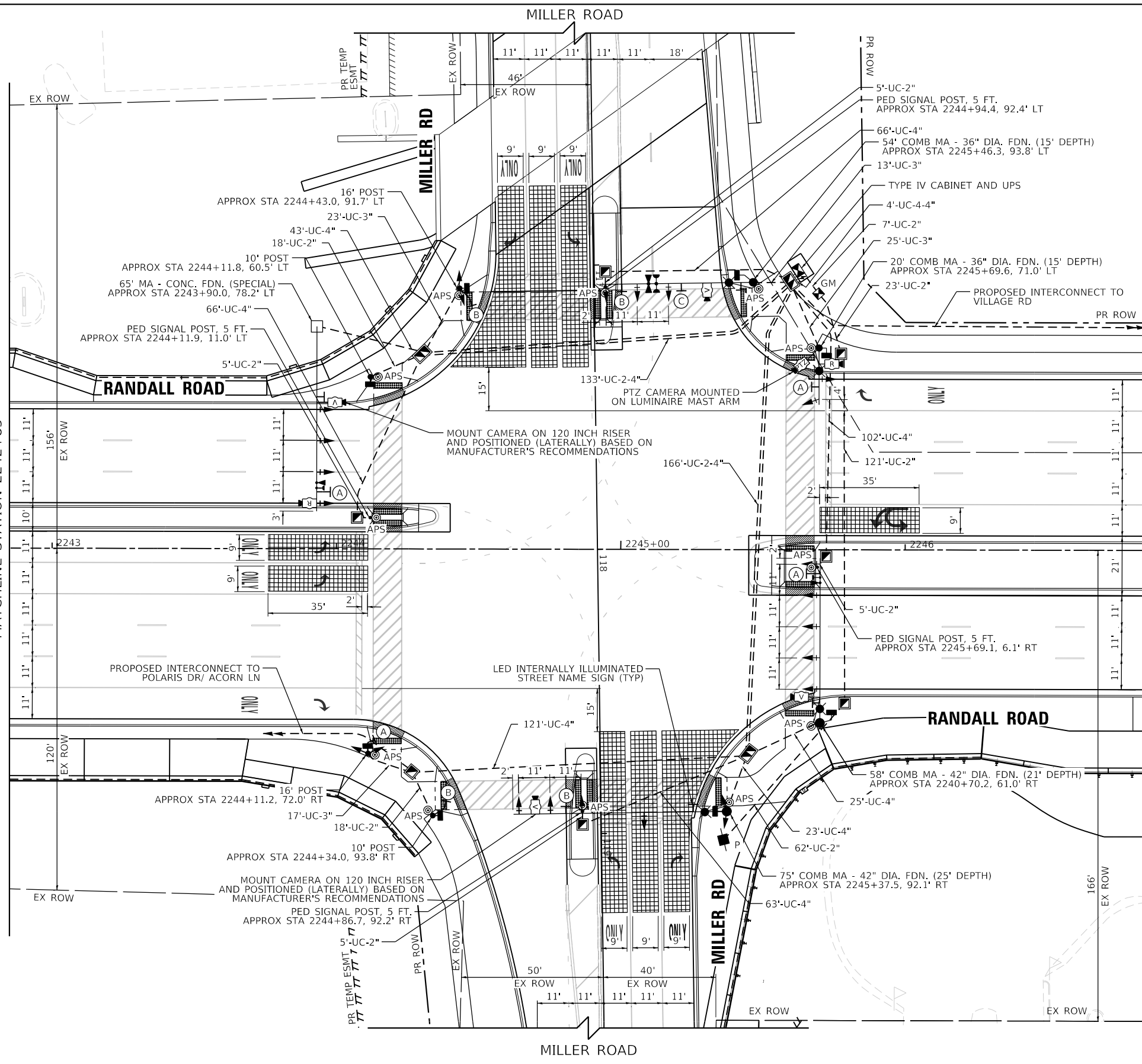
R10-5
30"x36"
SIGN PANEL - TYPE 1
(4 REQUIRED)
- (B)** **LEFT TURN YIELD ON FLASHING YELLOW ARROW**

30"x36"
SIGN PANEL - TYPE 1
(4 REQUIRED)
- (C)** **NO TURN ON RED**

R10-11
36"x48"
SIGN PANEL - TYPE 2
(1 REQUIRED)

NOTES:

1. THE MOUNTING LOCATIONS OF THE VIDEO AND RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
2. LUMINAIRE ARMS ON ALL TRAFFIC SIGNAL COMBINATION MAST ARM ASSEMBLY AND POLES SHALL BE 20 FT.
3. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
4. SEPARATE CONDUITS FOR LIGHTING AND TRAFFIC SIGNALS SHALL BE INSTALLED IN THE FOUNDATIONS FOR COMBINATION MAST ARM ASSEMBLY AND POLE. SEE LIGHTING PLANS FOR LIGHTING CONDUIT DETAIL.
5. VIDEO DETECTION SHALL BE USED AT THE FOLLOWING LOCATIONS:
 - STOP BAR DETECTION ON EASTBOUND AND WESTBOUND APPROACHES (MILLER RD)
 - STOP BAR DETECTION ON NORTHBOUND AND SOUTHBOUND LEFT TURN LANES (RANDALL RD)
- RADAR DETECTION SHALL BE USED AT THE FOLLOWING LOCATIONS:
 - ADVANCE DETECTION ON NORTHBOUND AND SOUTHBOUND THROUGH LANES (RANDALL RD)
6. CAMERA MOUNTING RISER SHALL BE INCLUDED IN THE COST OF VIDEO VEHICLE DETECTION SYSTEM. THE MOUNTING LOCATIONS OF THE VIDEO DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATION. SHOULD OPTIMAL LOCATION INCLUDE A GREATER MOUNTING HEIGHT, THE COST ASSOCIATED WITH INSTALLING THE VIDEO DETECTORS ON A TALLER RISER MOUNT SHALL BE INCLUDED DETECTION SYSTEM.



SEE SHEET NO. 357
MATCHLINE STATION 2242+85

MATCH LINE STATION 2246+85
SEE SHEET NO. 357

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: D:\XXXXX-SHETS\20-Pr-Miller.dwg

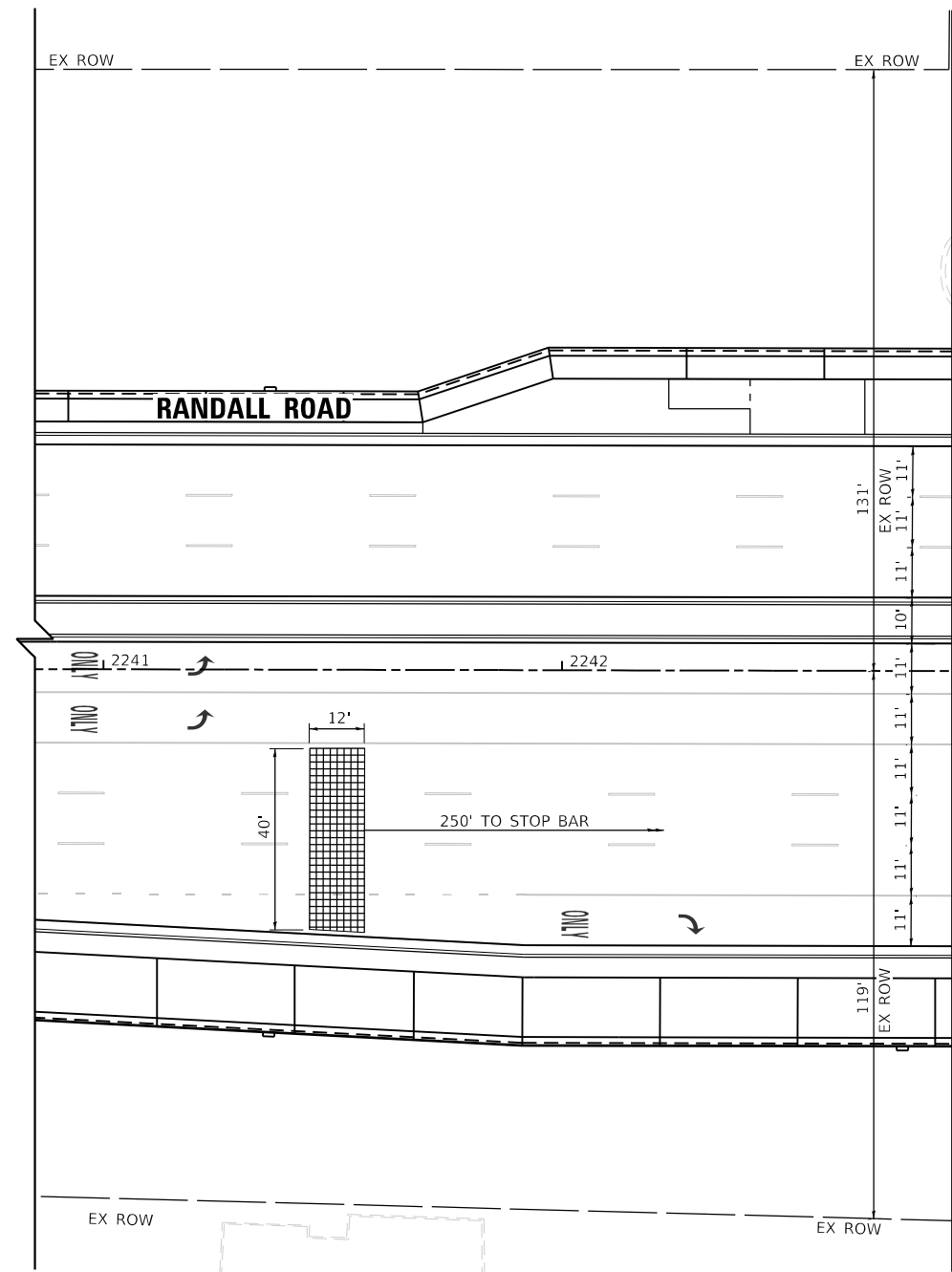
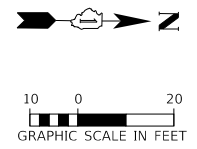
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SFN-DGN	DRAWN - BTW	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - GR	REVISED -
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

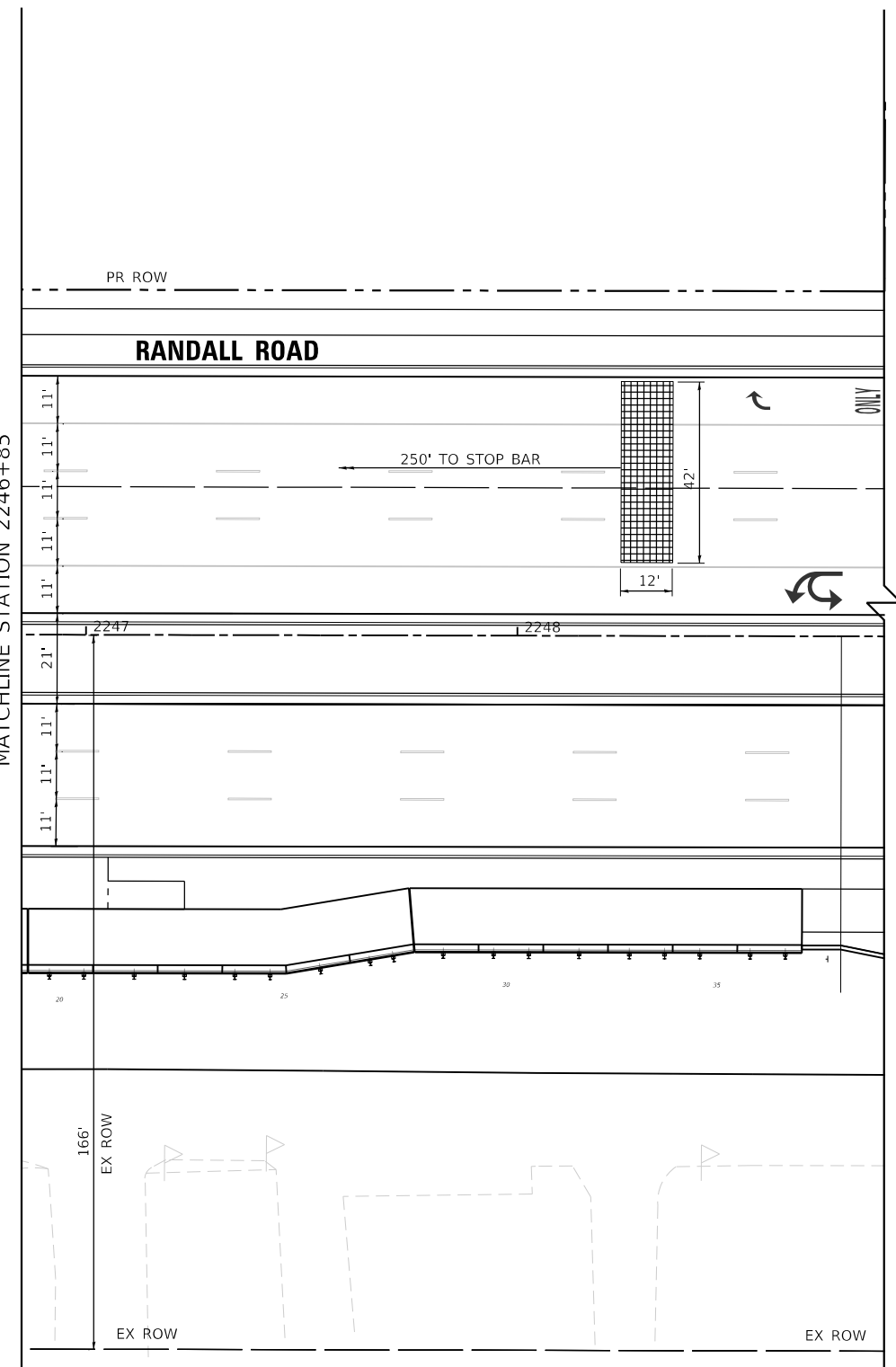
**TRAFFIC SIGNAL MODERNIZATION PLAN
RANDALL RD AT MILLER RD**

SCALE: 1" = 20' SHEET 23 OF 43 SHEETS STA. 2242+85 TO STA. 2246+85

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	356
CONTRACT NO. 61J93			ILLINOIS FED. AID PROJECT	



MATCH LINE STATION 2242+85
SEE SHEET NO. 356



SEE SHEET NO. 356
MATCHLINE STATION 2246+85

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: D:\XXXXX-SHTS\2024-PR-Miller02.dgn

USER NAME = btwegner	DESIGNED - BTW	REVISED -
SFN-DGN	DRAWN - BTW	REVISED -
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PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

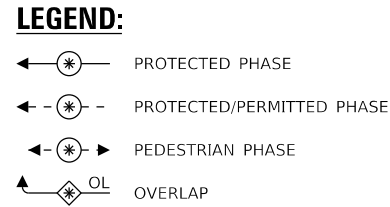
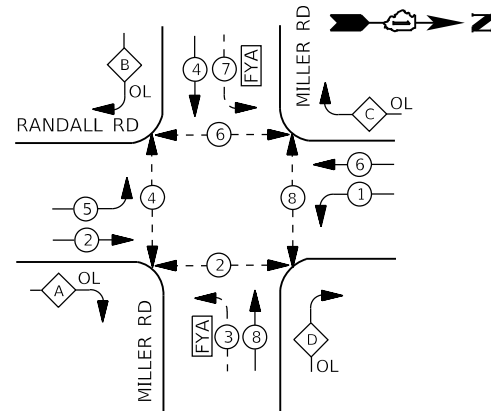
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
RANDALL RD AT MILLER RD**

SCALE: 1" = 20' SHEET 24 OF 43 SHEETS STA. TO STA.

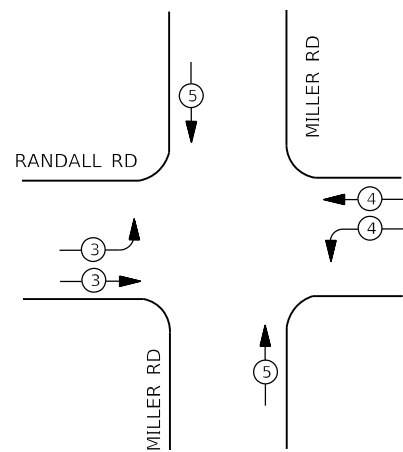
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	357
CONTRACT NO. 61J93				
ILLINOIS FED. AID PROJECT				

PROPOSED CONTROLLER SEQUENCE



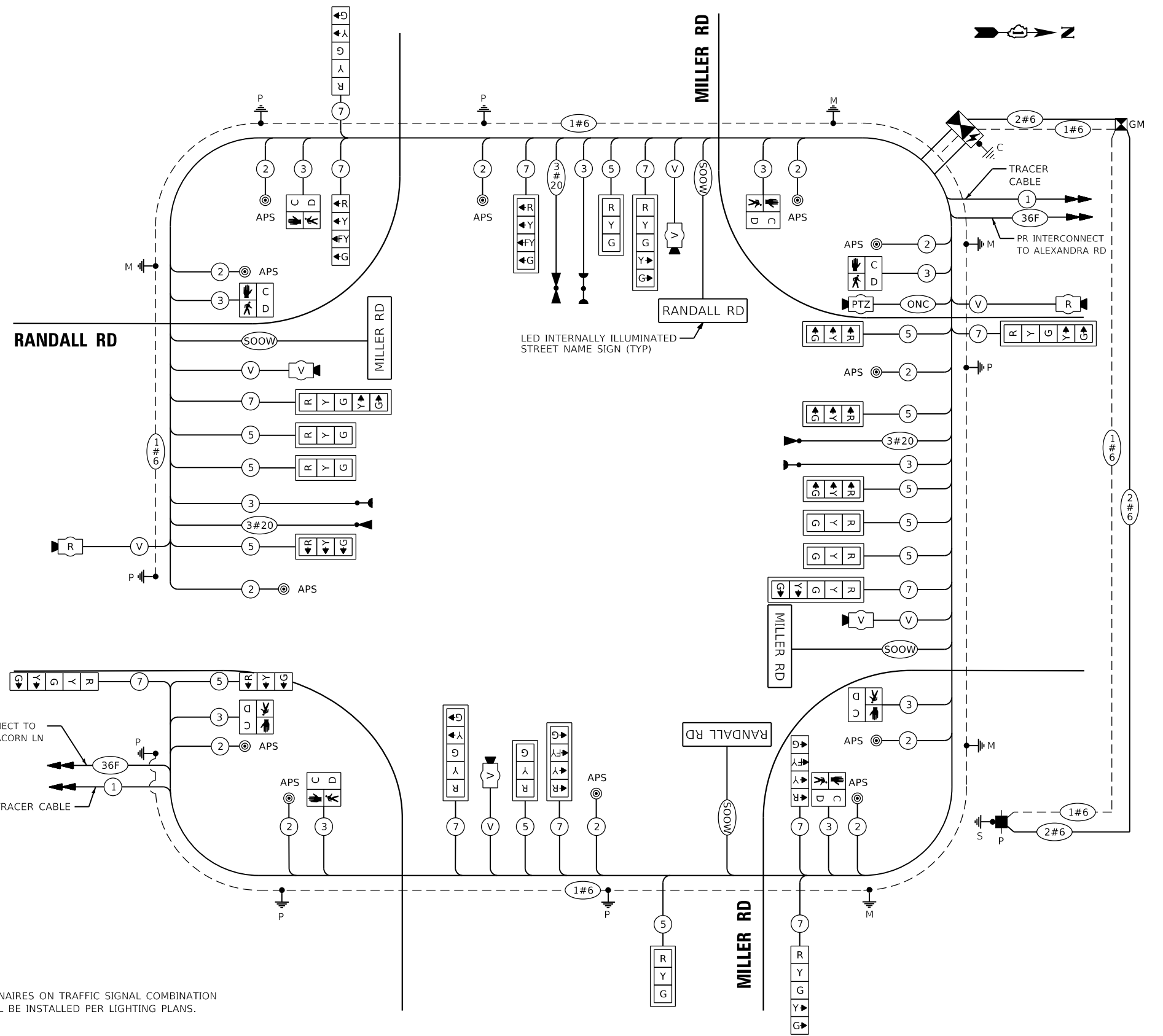
PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7
D	= 8	+ 1



CABLE PLAN

NOTES:

1. WIRING FOR LUMINAIRES ON TRAFFIC SIGNAL COMBINATION MAST ARMS SHALL BE INSTALLED PER LIGHTING PLANS.

IDOT Traffic Signal Installation Electrical Service Requirements

Type	Number of Lamps	LED Wattage	% Operations	Total Wattage
Signal				
Red	24	11	50%	132.0
Yellow	20	20	5%	20.0
Green	20	12	45%	108.0
FYA	12	12	30%	43.2
Prot-Perm Arrow	16	10	10%	16.0
Ped. Signal	8	20	100%	160.0
Controller	1	100	100%	100.0
UPS	1	25	100%	25.0
Radar Detector	2	20	100%	40.0
PTZ Video System	1	150	100%	150.0
Video System	1	115	100%	115.0
Blank-Out Sign		25	5%	
Flasher			50%	
Street Name Sign	4	120	50%	240.0
Luminaire		285	50%	
Total Intersection Wattage				1149.2

ENERGY COSTS TO:

VILLAGE OF LAKE IN THE HILLS
600 HARVEST GATE ROAD
LAKE IN THE HILLS, ILLINOIS 60156

ENERGY SUPPLY: CONTACT: _____
PHONE: (____) _____
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: _____

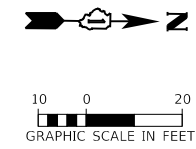
USER NAME	= btwegner
DESIGNED	- BTW
DRAWN	- BTW
REVISION	-
PLOT SCALE	= 40,0000 ' / in.
CHECKED	- GR
REVISION	-
PLOT DATE	= 6/11/2024
DATE	- 6/14/2024
REVISION	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGNATION DIAGRAM
RANDALL ROAD AT MILLER RD**

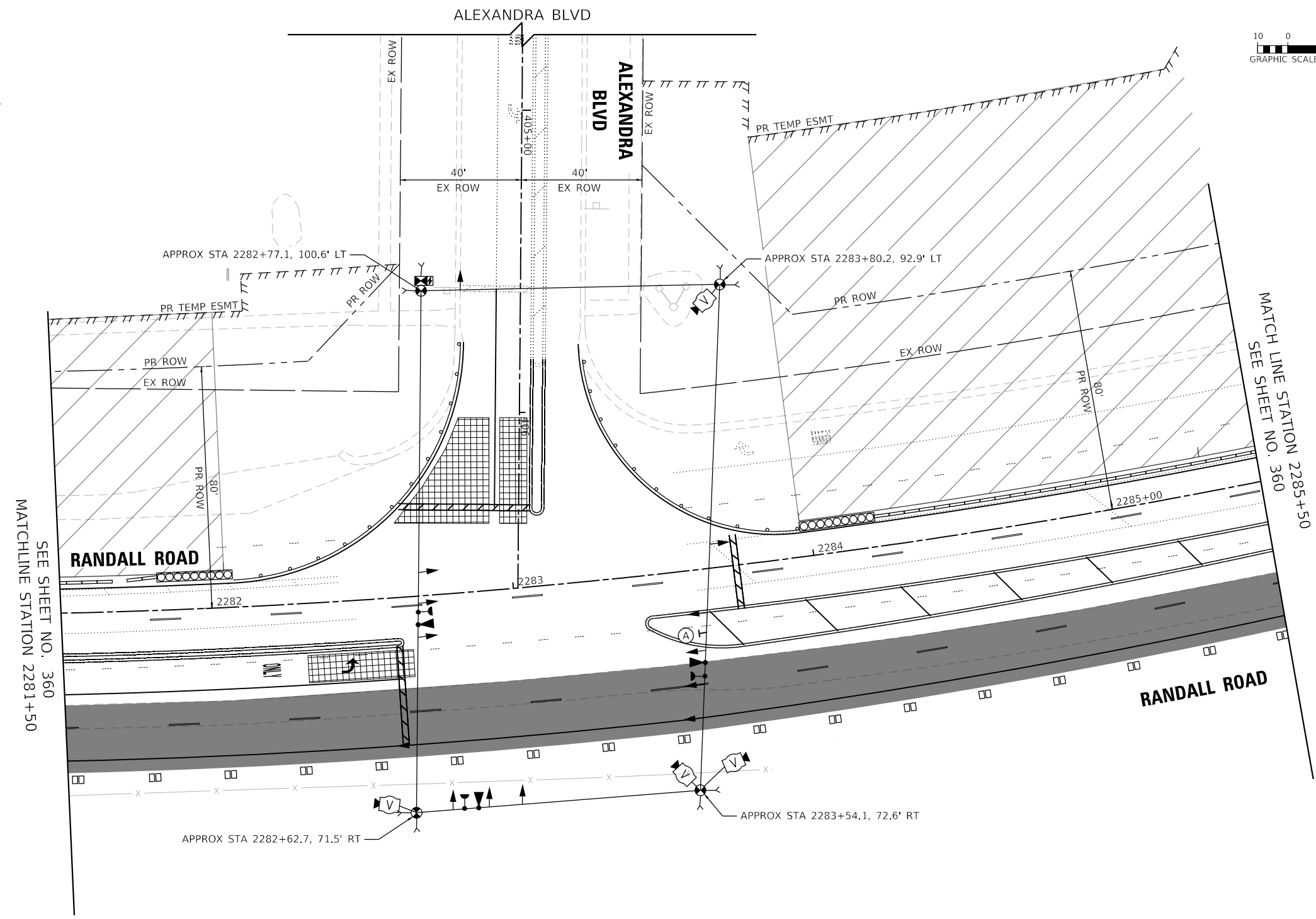
SCALE: NONE SHEET 25 OF 43 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	358
			CONTRACT NO. 61J93	
		ILLINOIS FED. AID PROJECT		



NOTES:

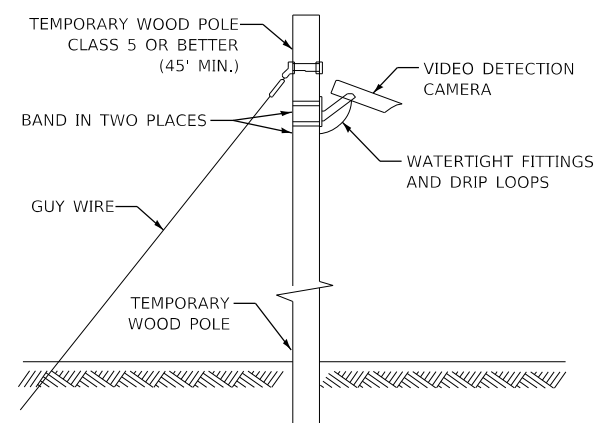
1. THE TEMPORARY TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
2. BARREL MOUNTED POSTS WITH PEDESTRIAN SIGNAL HEADS AND APS PUSH-BUTTONS SHALL BE PROVIDED FOR ALL CROSSWALKS THAT ARE ACTIVE DURING THE CONSTRUCTION STAGE. BARREL MOUNTED POSTS SHALL BE RELOCATED AS NEEDED, TO ENSURE THAT ALL ACTIVE PEDESTRIAN SIGNALS AND APS PUSH-BUTTONS ARE LOCATED PER DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS. REFER TO NOTES ON TEMPORARY CABLE PLAN FOR ACTIVE PEDESTRIAN PHASES BY CONSTRUCTION STAGE. INACTIVE PEDESTRIAN SIGNAL HEADS SHALL BE DE-ENERGIZED AND BAGGED. INACTIVE APS PUSH-BUTTONS SHALL BE DE-ENERGIZED AND COVERED OR REMOVED.



A LEFT ON GREEN ARROW ONLY

R10-5
1 REQUIRED
30"X36"

SIGN PANEL TYPE 1 INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION



TEMPORARY VIDEO DETECTION MOUNTING DETAIL (NOT TO SCALE)

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: D:\XXXXX\SH1\T5\350-T5-Alexandra.dgn

USER NAME = btwegner	DESIGNED - JRD	REVISED -
SFN-TSP11	DRAWN - JRD	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - GR	REVISED -
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

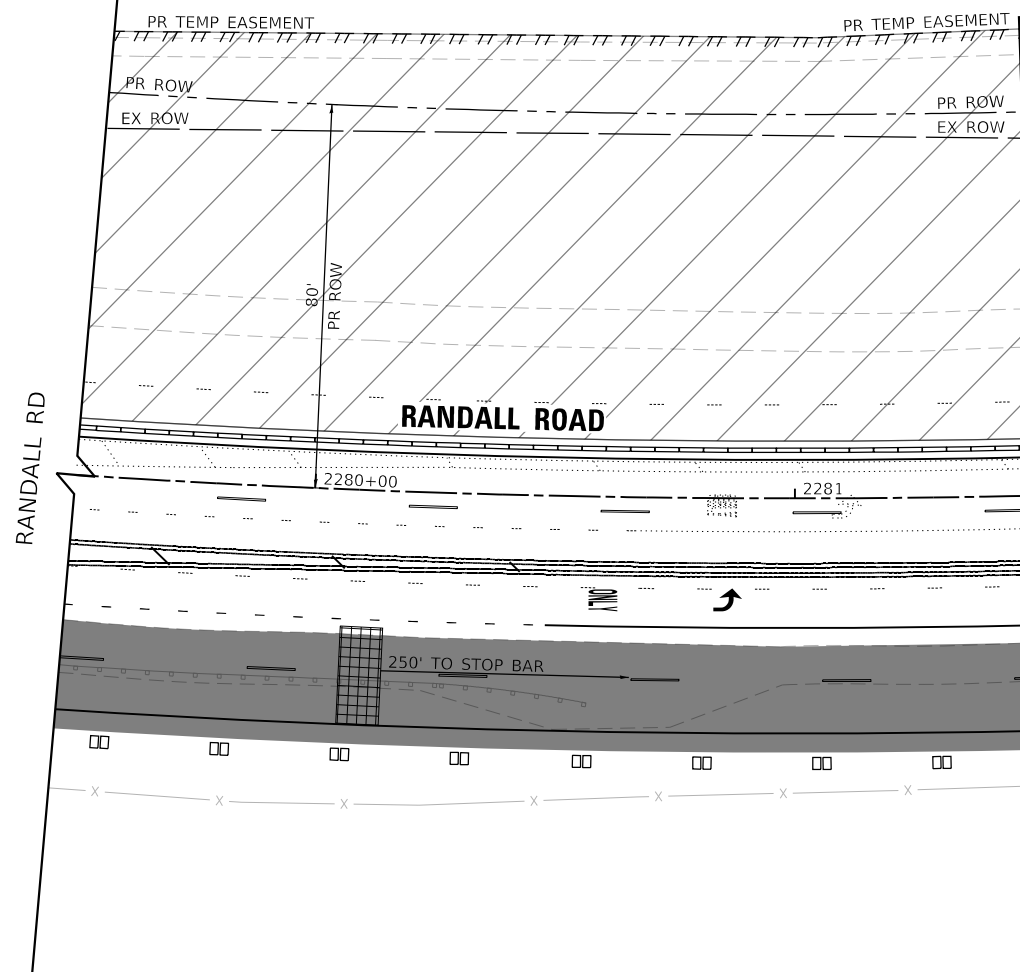
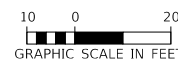
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION
RANDALL RD AT ALEXANDRA BLVD**

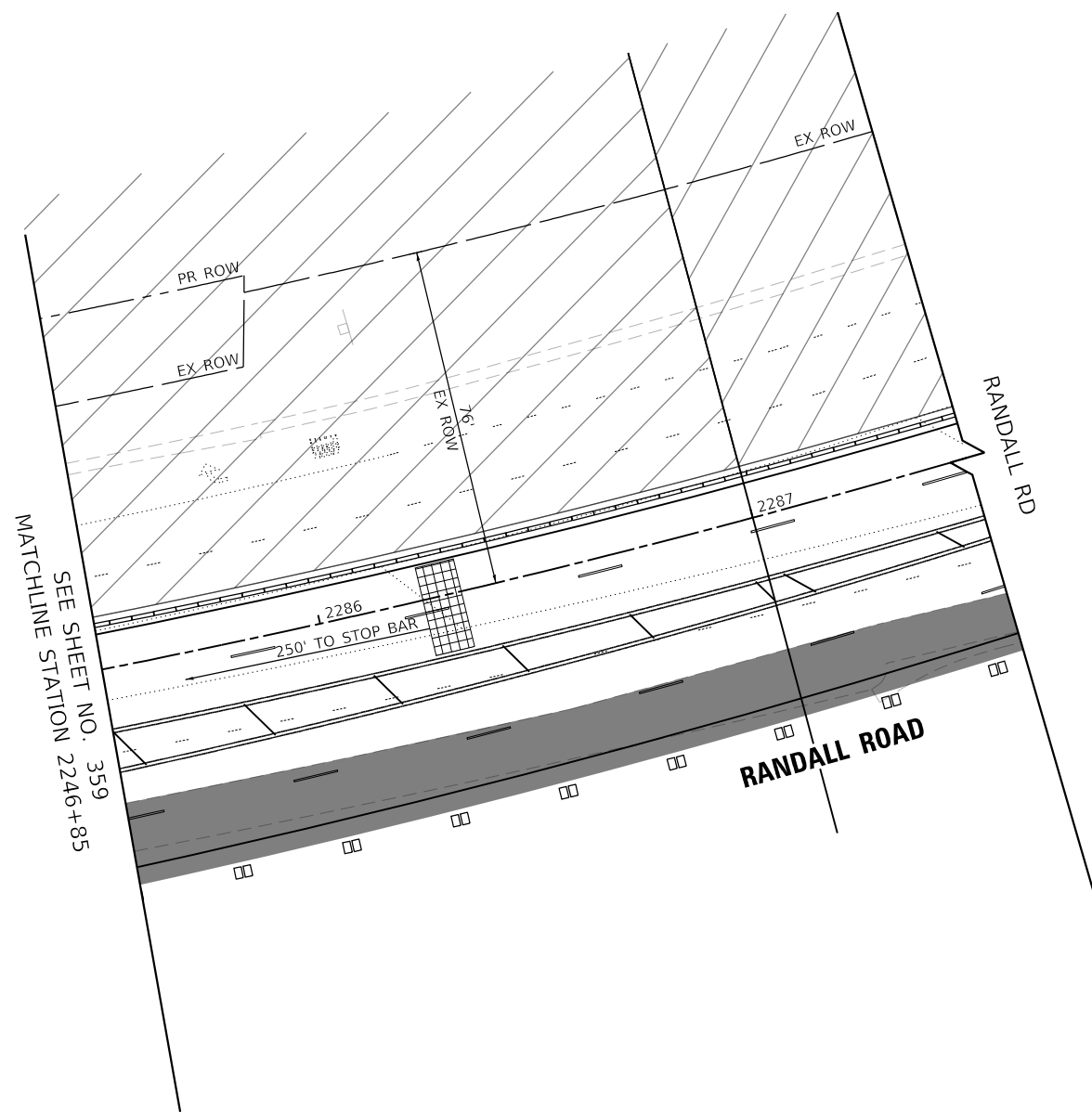
SCALE: 1"=20' SHEET 26 OF 43 SHEETS STA. 2281+50 TO STA. 2285+50

F.A.P. RTE. 336	SECTION 06-00329-02-PW	COUNTY MCHENRY	TOTAL SHEETS 735	SHEET NO. 359
				CONTRACT NO. 61J93
ILLINOIS FED. AID PROJECT				

MOT PRESTAGE AND STAGE 1



MATCH LINE STATION 2242+85
SEE SHEET NO. 359



MATCHLINE STATION 2246+85
SEE SHEET NO. 359

MOT PRESTAGE AND STAGE 1

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: D:\XXXXX-SHT\15115-Alexandra.dgn

USER NAME = btwegner	DESIGNED - BTW	REVISED -
SFN-DGN	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GR	REVISED -
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

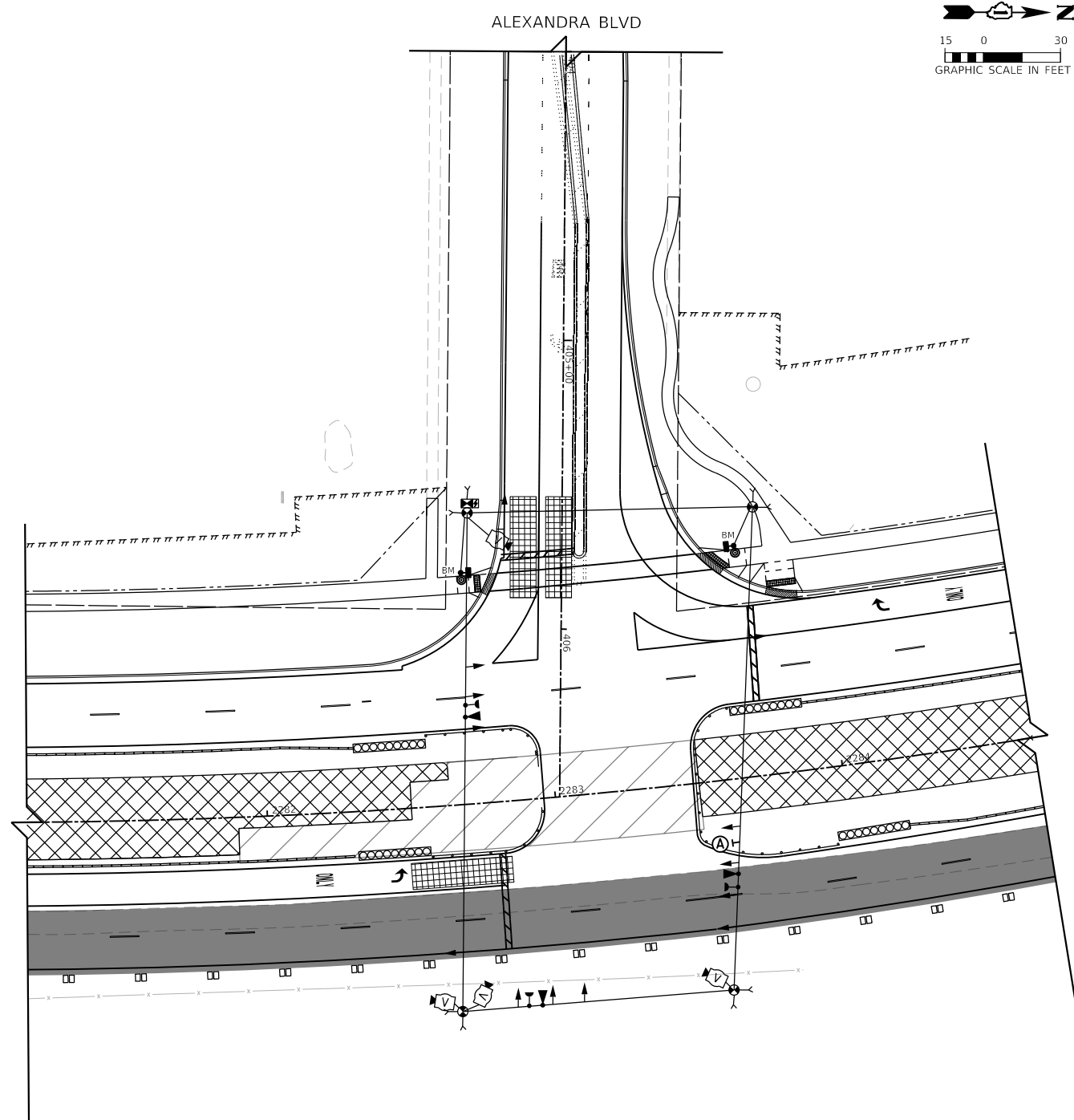
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION
RANDALL RD AT ALEXANDRA BLVD**

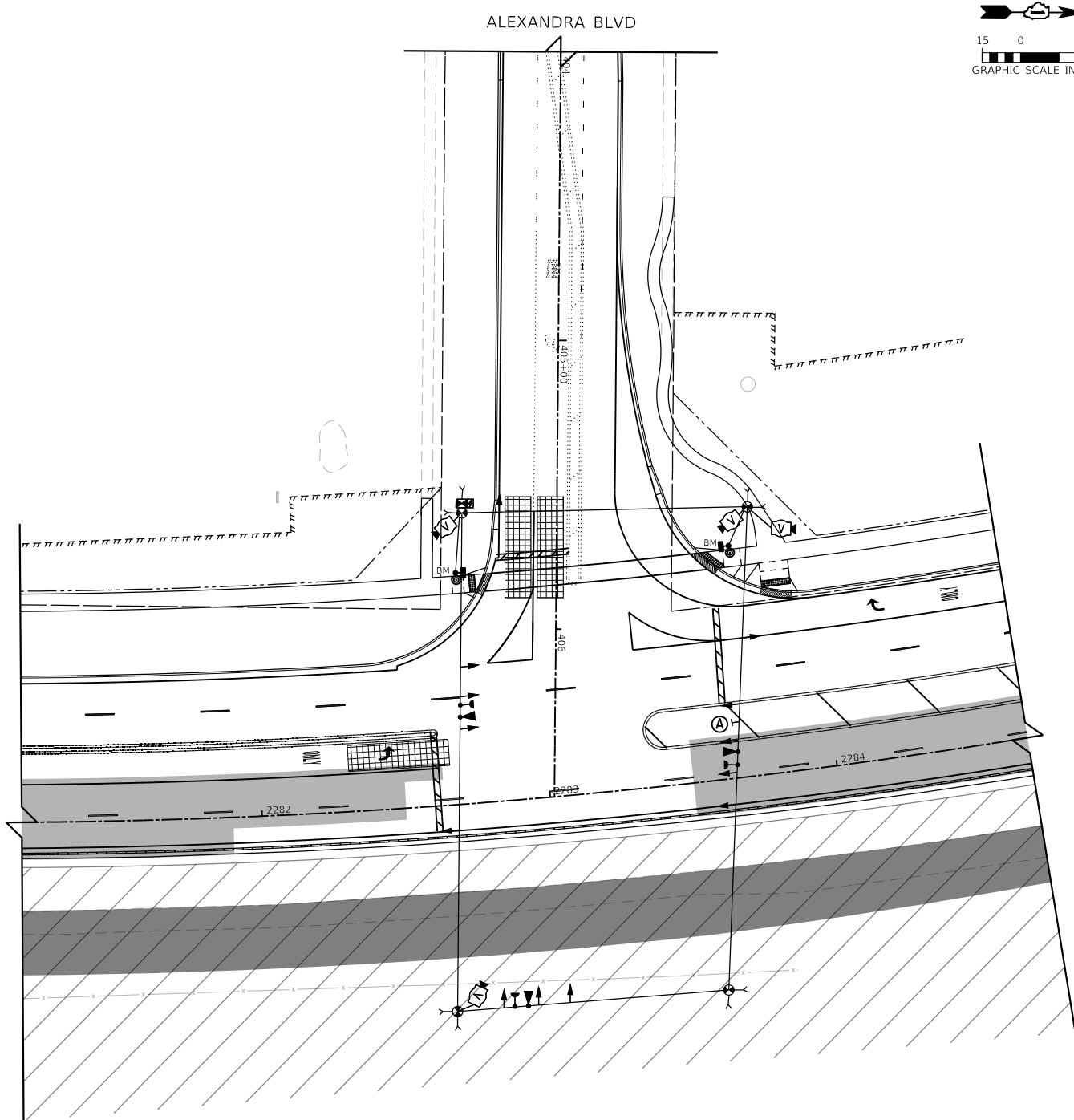
SCALE: 1" = 20' SHEET 27 OF 43 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	360
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J93	

FILE NAME: D:\XXXXX-SHT-TS\1352-TS-Alexandra.dgn



TEMPORARY TRAFFIC SIGNAL STAGE 2



TEMPORARY TRAFFIC SIGNAL STAGE 3

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

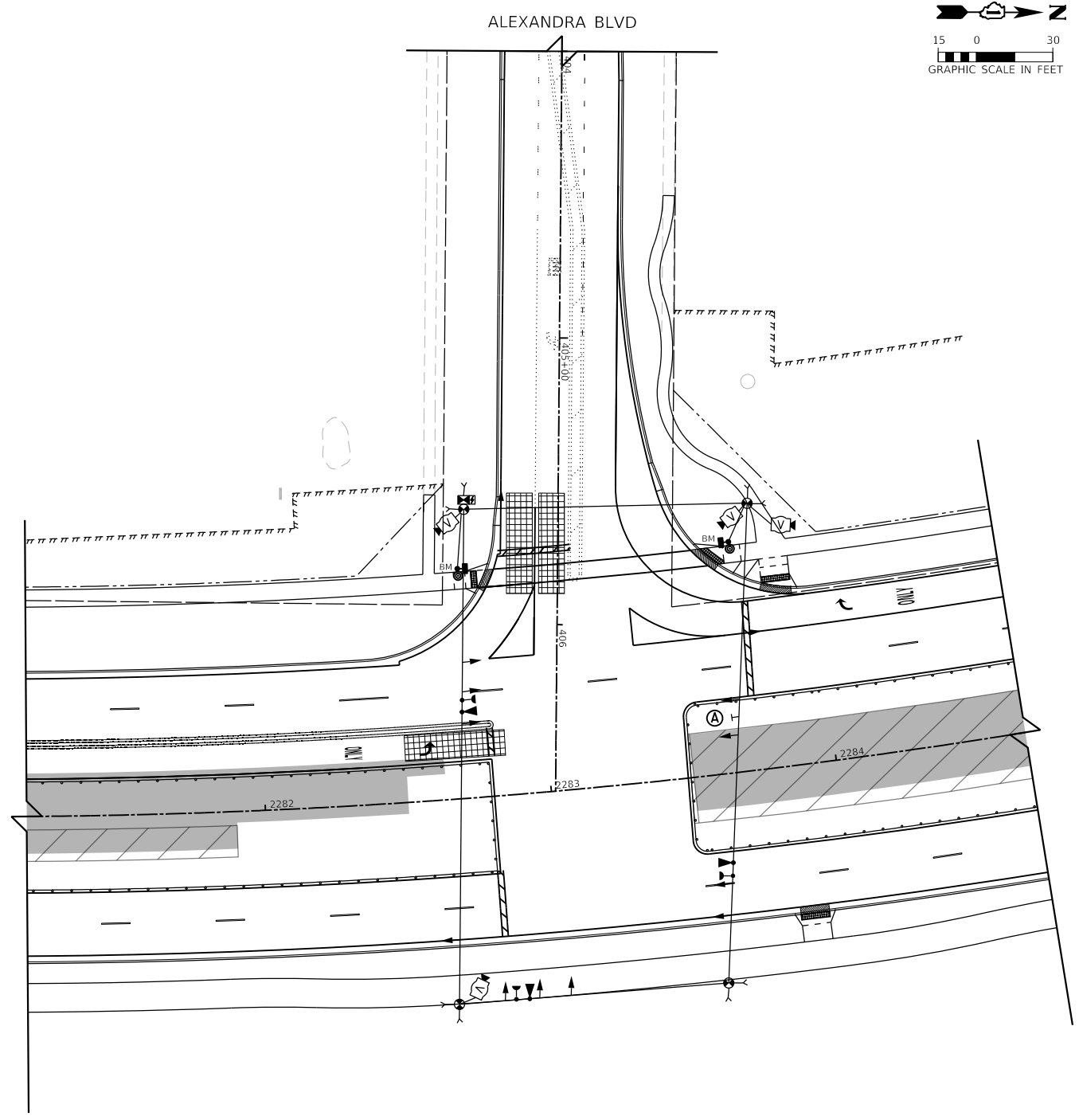
**TEMPORARY TRAFFIC SIGNAL INSTALLATION, M.O.T. STAGING PLAN
 RANDALL RD AT ALEXANDRA BLVD**

USER NAME = btwegner	DESIGNED - BTW	REVISED -
SFN-DGN	DRAWN - BTW	REVISED -
PLOT SCALE = 80.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

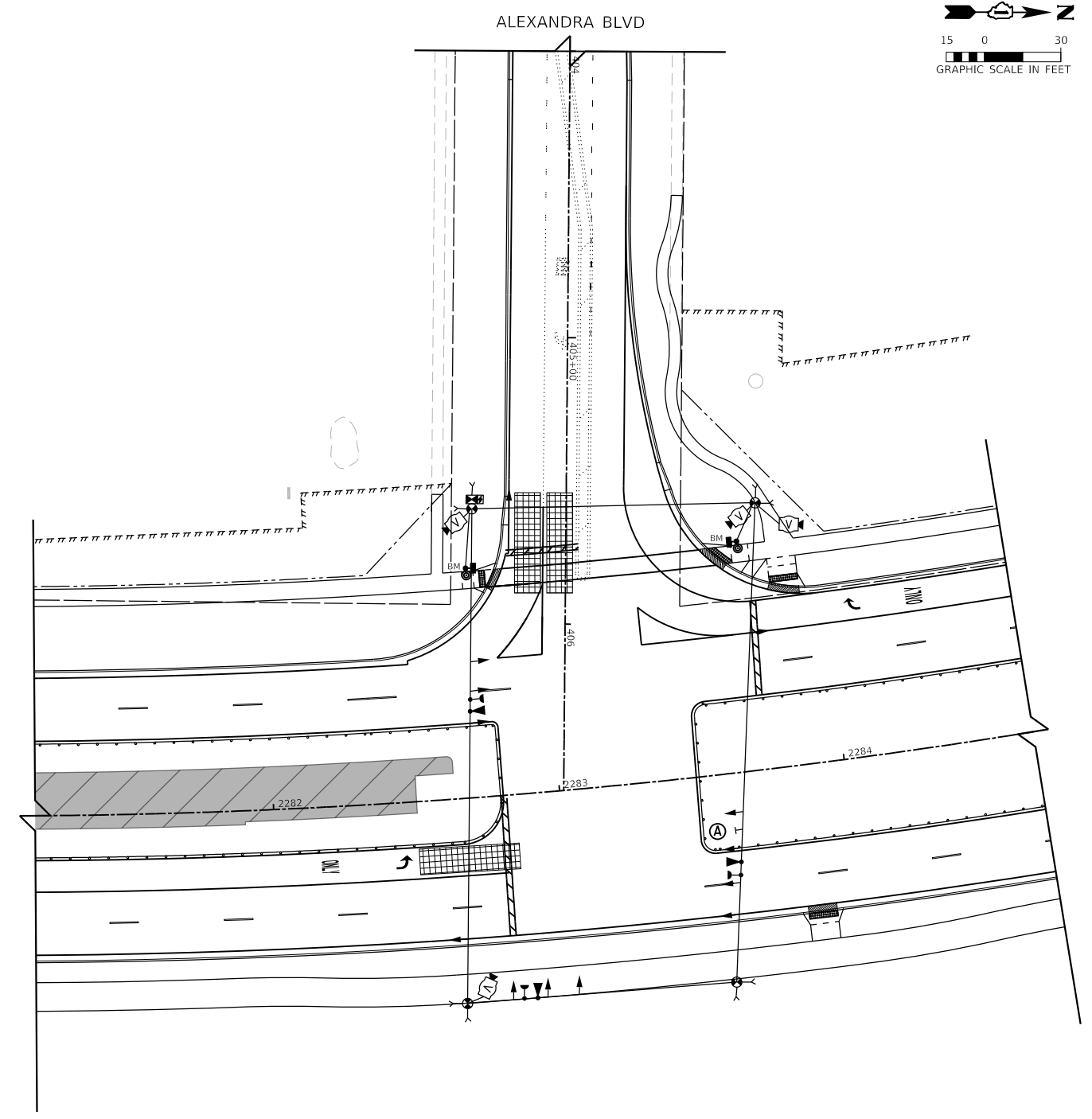
SCALE: 1" = 30' SHEET 28 OF 43 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	361
				CONTRACT NO. 61J93
ILLINOIS FED. AID PROJECT				

FILE NAME: D:\XXXXX-SHT-TS\353-TS-Alexandra04_DWG.dgn



TEMPORARY TRAFFIC SIGNAL STAGE 4



TEMPORARY TRAFFIC SIGNAL STAGE 4A

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

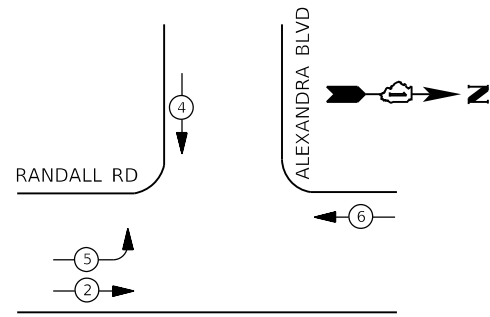
**TEMPORARY TRAFFIC SIGNAL INSTALLATION, M.O.T. STAGING PLAN
 RANDALL RD AT ALEXANDRA BLVD**

USER NAME = btwegner	DESIGNED - BTW	REVISED -
SFN-DGN	DRAWN - BTW	REVISED -
PLOT SCALE = 80.0000 ' / in.	CHECKED - GR	REVISED -
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

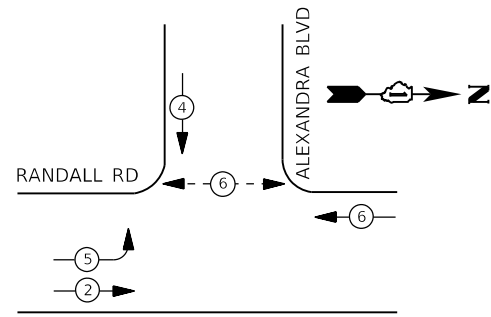
SCALE: 1" = 40' SHEET 29 OF 43 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	362
			CONTRACT NO. 61J93	
ILLINOIS FED. AID PROJECT				

**PRESTAGE AND STAGE 1
TEMPORARY CONTROLLER SEQUENCE**



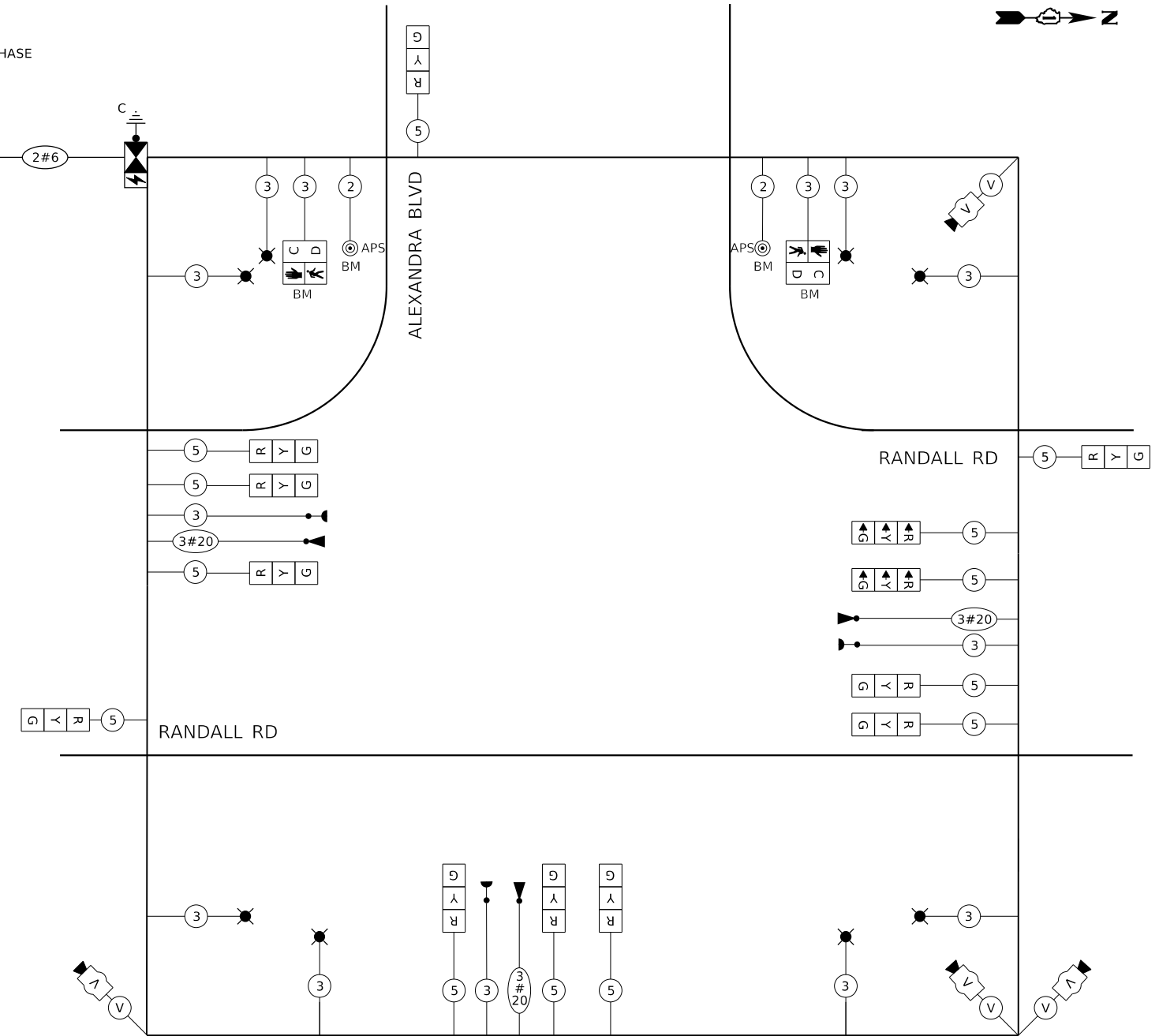
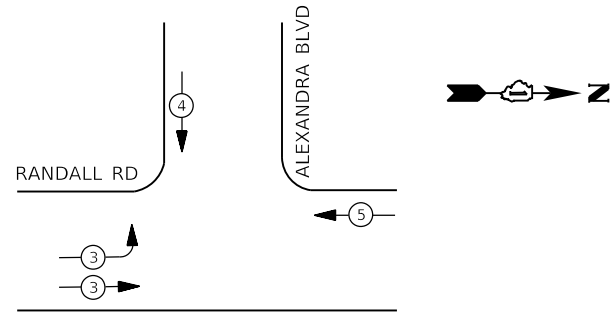
**STAGE 2, STAGE 3, STAGE 4 AND STAGE 4A
TEMPORARY CONTROLLER SEQUENCE**



LEGEND

- ← ⊙ ← PROTECTED PHASE
- ← ⊙ - - PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



**TEMPORARY CABLE PLAN
(PRESTAGE, STAGE 1, STAGE 2, STAGE 3, STAGE 4 AND STAGE 4A)**

TEMPORARY TRAFFIC SIGNAL: PRESTAGE & STAGE 1					TEMPORARY TRAFFIC SIGNAL: STAGE 2, 3, 4, & 4A				
IDOT Traffic Signal Installation Electrical Service Requirements					IDOT Traffic Signal Installation Electrical Service Requirements				
Type	Number of Lamps	LED Wattage	% Operations	Total Wattage	Type	Number of Lamps	LED Wattage	% Operations	Total Wattage
Signal Red	13	11	50%	71.5	Signal Red	13	11	50%	71.5
Yellow	13	20	5%	13.0	Yellow	13	20	5%	13.0
Green	13	12	45%	70.2	Green	13	12	45%	70.2
Prot-Perm Arrow		10	10%		Prot-Perm Arrow		10	10%	
Ped. Signal		20	100%		Ped. Signal	2	20	100%	40.0
Controller	1	100	100%	100.0	Controller	1	100	100%	100.0
UPS	1	25	100%	25.0	UPS	1	25	100%	25.0
Video System	1	150	100%	150.0	Video System	1	150	100%	150.0
Blank-Out Sign		25	5%		Blank-Out Sign		25	5%	
Flasher			50%		Flasher			50%	
Street Name Sign		120	50%		Street Name Sign		120	50%	
Luminaire	8	285	50%	1140.0	Luminaire	8	285	50%	1140.0
Total Intersection Wattage				1569.7	Total Intersection Wattage				1609.7

ENERGY COSTS TO:	ENERGY COSTS TO:
VILLAGE OF LAKE IN THE HILLS 600 HARVEST GATE ROAD LAKE IN THE HILLS, ILLINOIS 60156	VILLAGE OF LAKE IN THE HILLS 600 HARVEST GATE ROAD LAKE IN THE HILLS, ILLINOIS 60156
ENERGY SUPPLY: CONTACT: _____ PHONE: () - - - - COMPANY: COMMONWEALTH EDISON	ENERGY SUPPLY: CONTACT: _____ PHONE: () - - - - COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: _____	ACCOUNT NUMBER: _____

THE TEMPORARY TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAMBERG, ILLINOIS 60173
(847) 605-9600

FILE NAME: D:\XXXXX-SHETS\170-TS-MIR.dwg

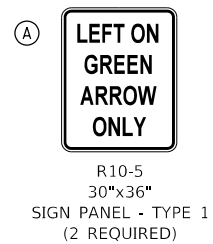
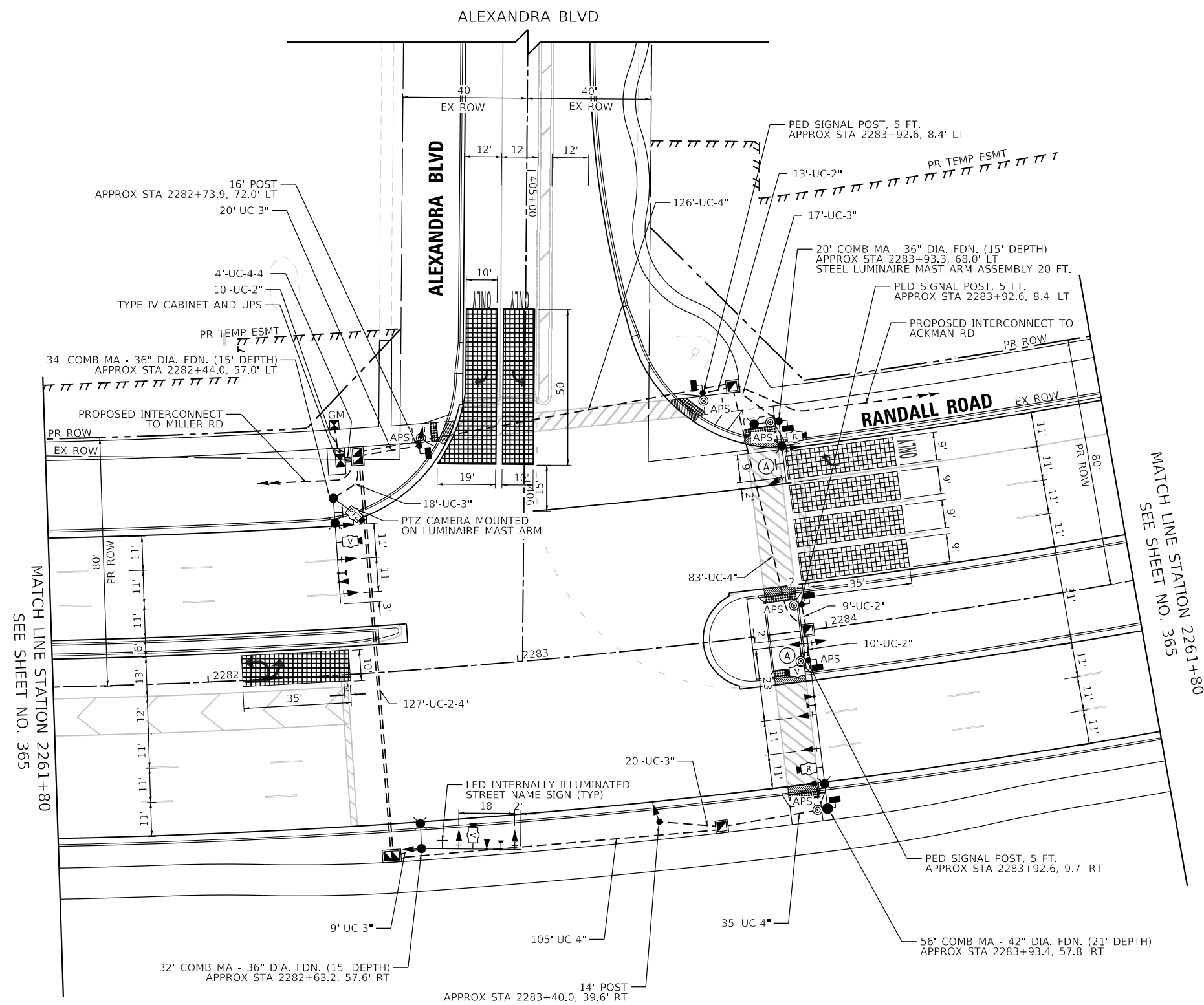
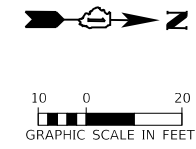
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM
RANDALL RD AT ALEXANDRA BLVD**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	363
CONTRACT NO. 61J93			ILLINOIS FED. AID PROJECT	

SCALE: NONE SHEET 30 OF 43 SHEETS STA. TO STA.

USER NAME = btwegner	DESIGNED - BTW	REVISED -
SFN-TSP11	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000 "/in.	CHECKED - GR	REVISED -
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -



NOTES:

1. THE MOUNTING LOCATIONS OF THE VIDEO AND RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
2. LUMINAIRE ARMS ON ALL TRAFFIC SIGNAL COMBINATION MAST ARM ASSEMBLY AND POLES SHALL BE 20 FT.
3. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
4. SEPARATE CONDUITS FOR LIGHTING AND TRAFFIC SIGNALS SHALL BE INSTALLED IN THE FOUNDATIONS FOR COMBINATION MAST ARM ASSEMBLY AND POLE. SEE LIGHTING PLANS FOR LIGHTING CONDUIT DETAIL.
5. VIDEO DETECTION SHALL BE USED AT THE FOLLOWING LOCATIONS:
 - STOP BAR DETECTION ON EASTBOUND APPROACH (ALEXANDRA BLVD)
 - STOP BAR DETECTION ON NORTHBOUND LEFT TURN LANE (RANDALL RD)
 - STOP BAR DETECTION ON SOUTHBOUND APPROACHES (RANDALL RD)
6. RADAR DETECTION SHALL BE USED AT THE FOLLOWING LOCATIONS:
 - ADVANCED DETECTION ON NORTHBOUND AND SOUTHBOUND THROUGH LANES (RANDALL RD)
7. LUMINAIRE MAST ARM AND LUMINAIRE SHALL BE ROTATED AS SHOWN IN THE PLANS.

TRANSYSTEMS
 1475 EAST WOODFIELD ROAD, SUITE 600
 SCHAMBERG, ILLINOIS 60173
 (847) 605-9600

FILE NAME: D:\XXXXX\SHI\T51301-Pr-Alexandra.dgn

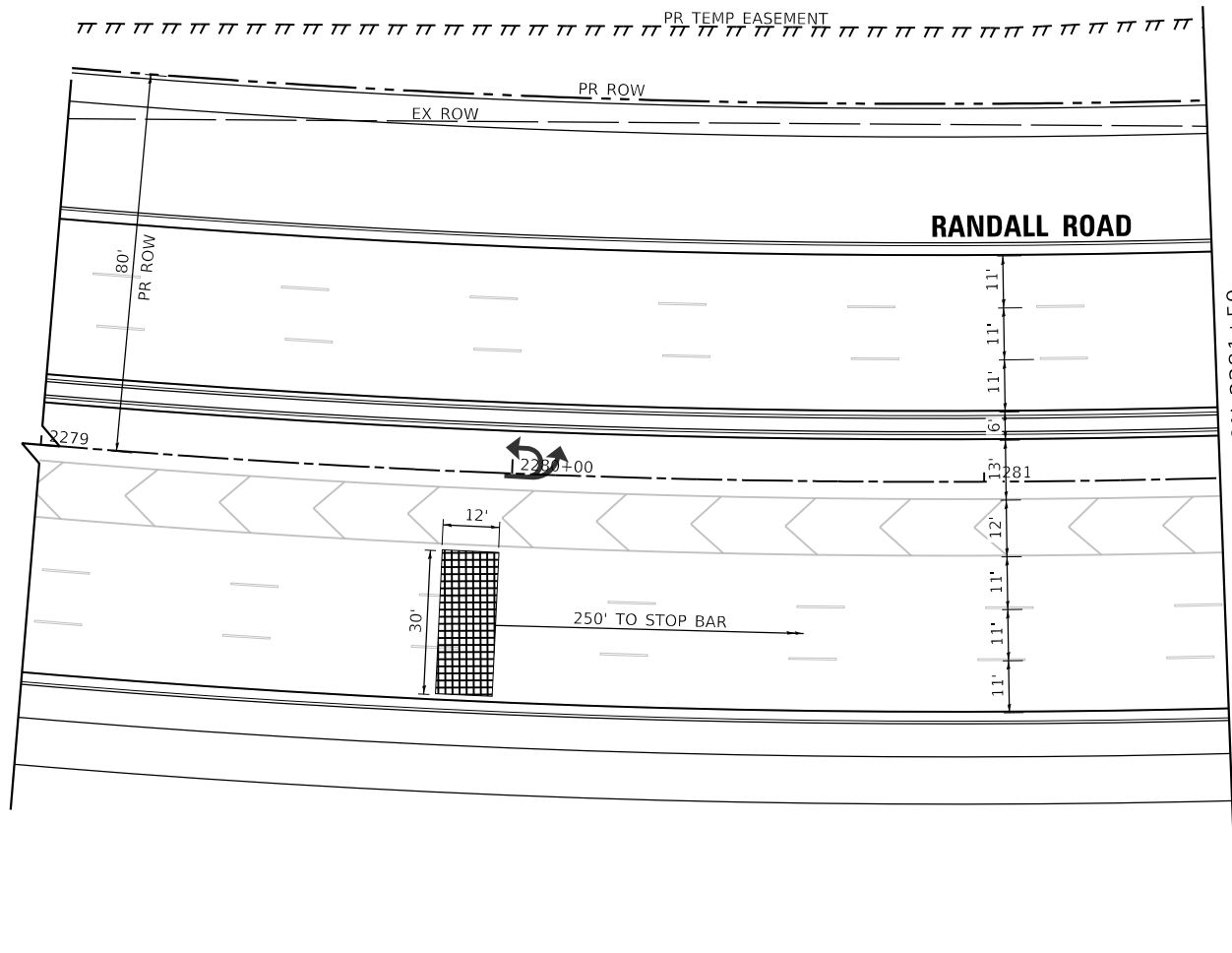
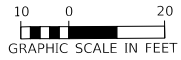
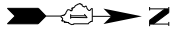
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SFN-TSP15	DRAWN - BTW	REVISED -
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PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

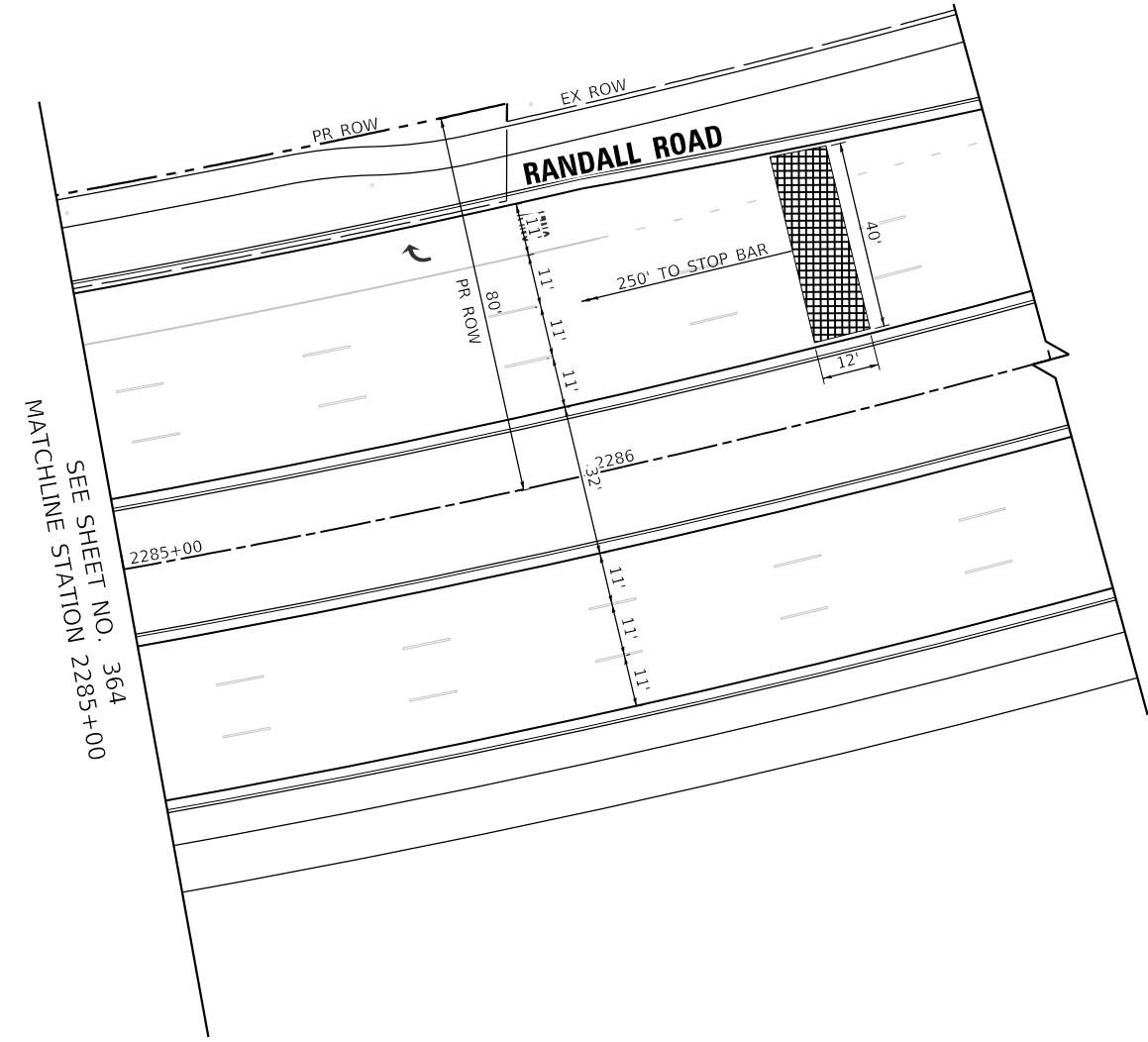
TRAFFIC SIGNAL MODERNIZATION PLAN
RANDALL RD AT ALEXANDRA BLVD

SCALE: 1" = 20' SHEET 31 OF 43 SHEETS STA. 2257+80 TO STA. 2261+80

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	364
CONTRACT NO. 61J93			ILLINOIS FED. AID PROJECT	



MATCH LINE STATION 2281+50
SEE SHEET NO. 364



MATCHLINE STATION 2285+00
SEE SHEET NO. 364

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: D:\XXXXX\5HT\TS1302-Pr-Alexandra02.dgn

USER NAME = btwegner	DESIGNED - JRD	REVISED -
DRAWN - JRD	REVISIONS -	
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PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

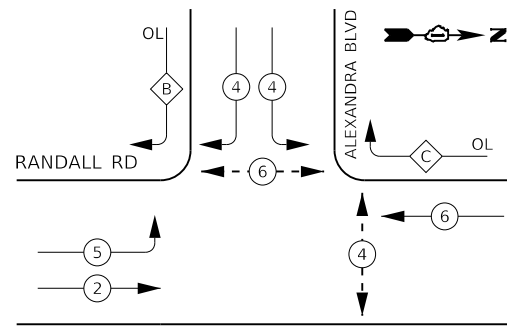
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
RANDALL RD AT ALEXANDRA BLVD**

SCALE: 1" = 20' SHEET 32 OF 43 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	365
CONTRACT NO. 61J93			ILLINOIS FED. AID PROJECT	

PROPOSED CONTROLLER SEQUENCE



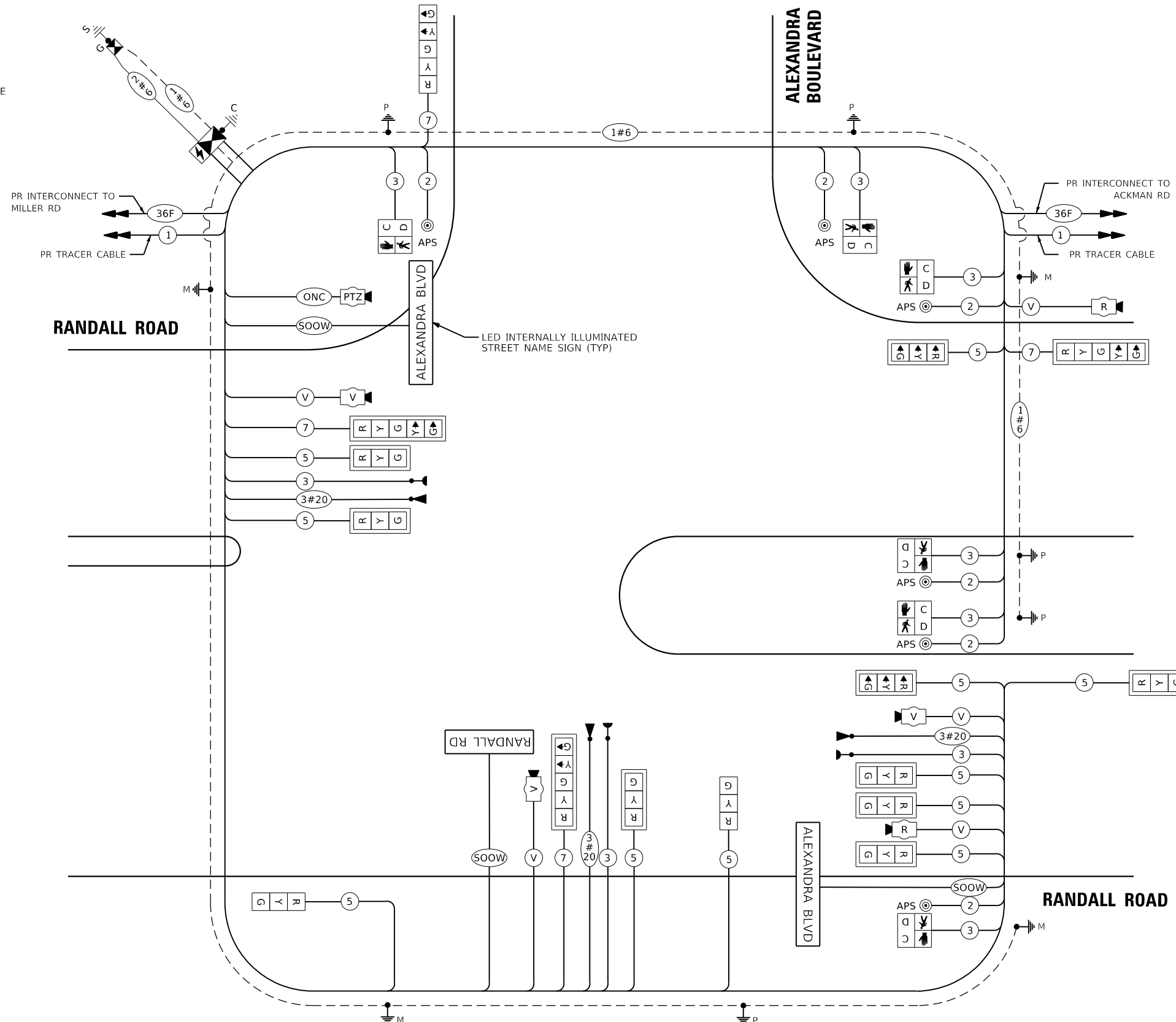
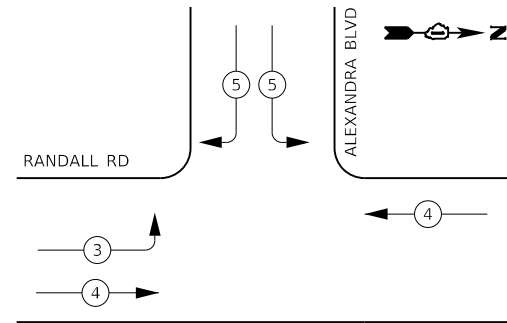
LEGEND:

- ← * → PROTECTED PHASE
- ← * → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← OL → OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
C	= 6	+ 4

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN

IDOT Traffic Signal Installation Electrical Service Requirements

Type	Number of Lamps	LED Wattage	% Operations	Total Wattage	
Signal	Red	15	11	50%	82.5
	Yellow	15	20	5%	15.0
	Green	15	12	45%	81.0
Prot-Perm Arrow	8	10	10%	8.0	
Ped. Signal	6	20	100%	120.0	
Controller	1	100	100%	100.0	
UPS	1	25	100%	25.0	
Radar Detector	2	20	100%	40.0	
PTZ Video System	1	150	100%	150.0	
Video System	1	115	100%	115.0	
Blank-Out Sign		25	5%		
Flasher			50%		
Street Name Sign	4	120	50%	240.0	
Luminaire		285	50%		
Total Intersection Wattage				976.5	

ENERGY COSTS TO:
VILLAGE OF LAKE IN THE HILLS
 600 HARVEST GATE ROAD
 LAKE IN THE HILLS, ILLINOIS 60156
 ENERGY SUPPLY: CONTACT: _____
 PHONE: (____) _____
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: _____

NOTES:

1. WIRING FOR LUMINAIRES ON TRAFFIC SIGNAL COMBINATION MAST ARMS SHALL BE INSTALLED PER LIGHTING PLANS.

DESIGNED - BTW	REVISED -
DRAWN - BTW	REVISED -
CHECKED - GR	REVISED -
DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

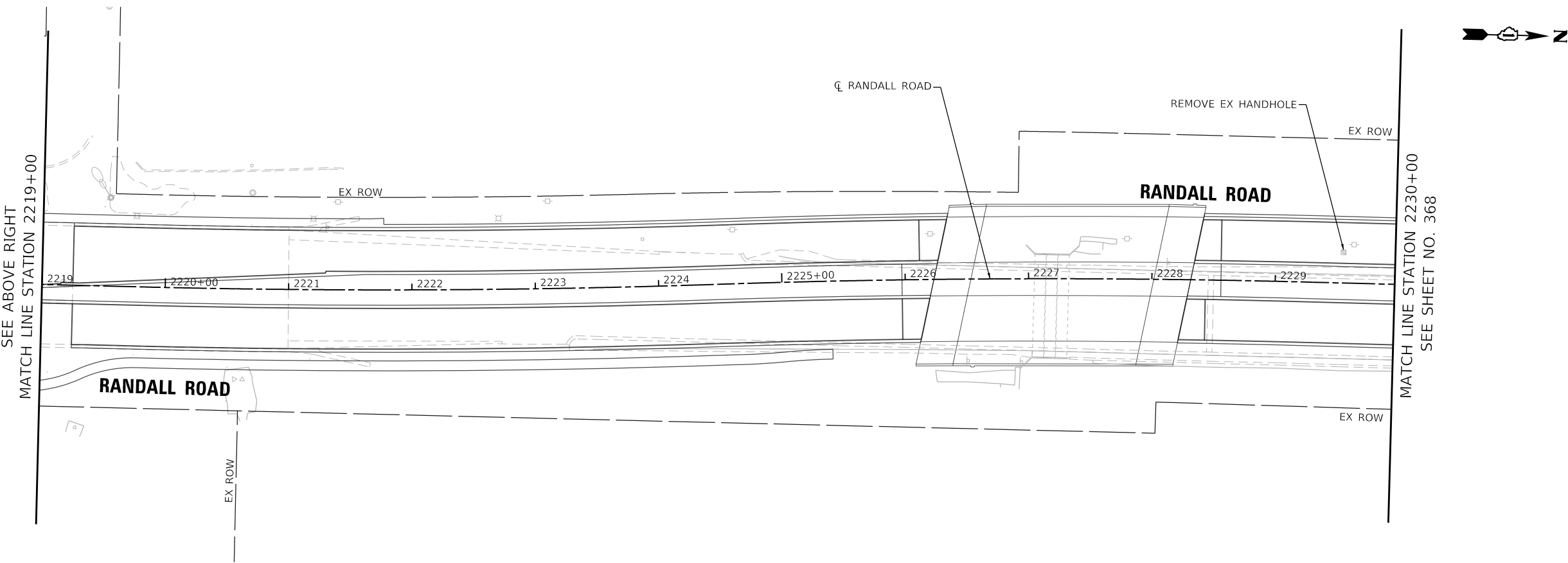
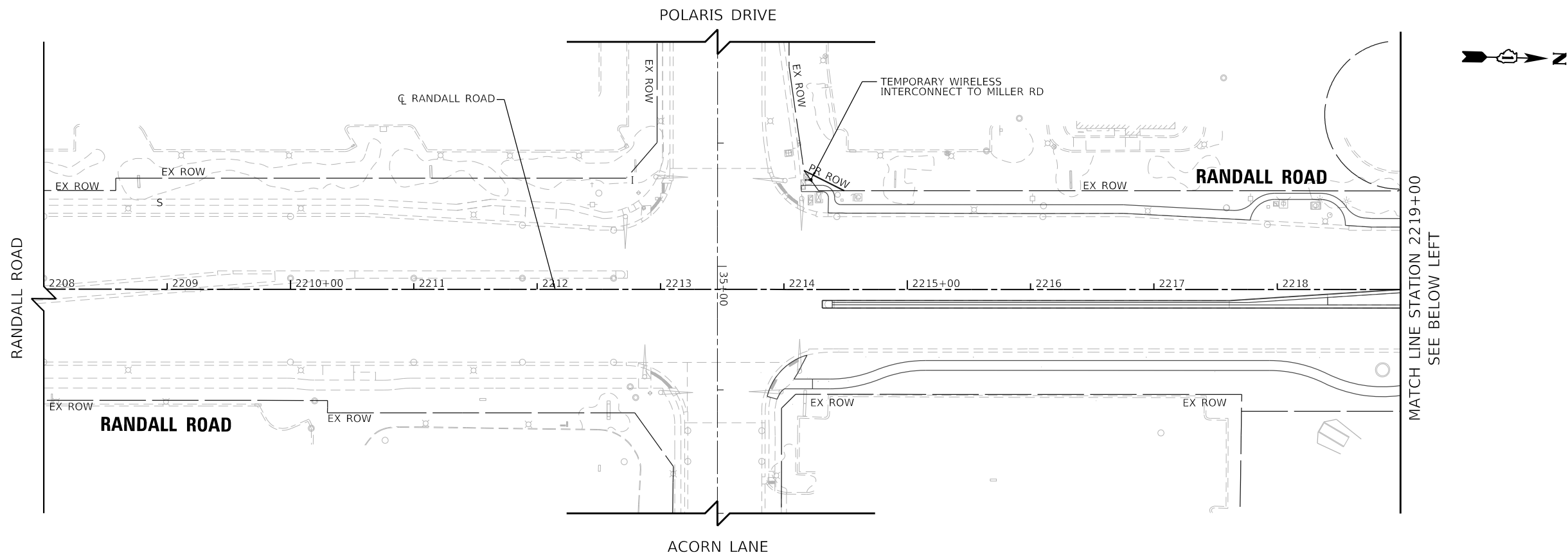
**CABLE PLAN, SOQ, PHASE DESIGNATION DIAGRAM
 RANDALL ROAD AT ALEXANDRA BOULEVARD**

SCALE: NONE SHEET 33 OF 43 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	366
			CONTRACT NO. 61J93	
ILLINOIS FED. AID PROJECT				

TRANSYSTEMS
 1475 EAST WOODFIELD ROAD, SUITE 600
 SCHAMBURG, ILLINOIS 60173
 (847) 605-9600

FILE NAME: D:\XXXXX-SHETS\330-PCB-Alexandra.dgn



USER NAME = btwegner	DESIGNED - BTW	REVISED -
SFN-DGN	DRAWN - BTW	REVISED -
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PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

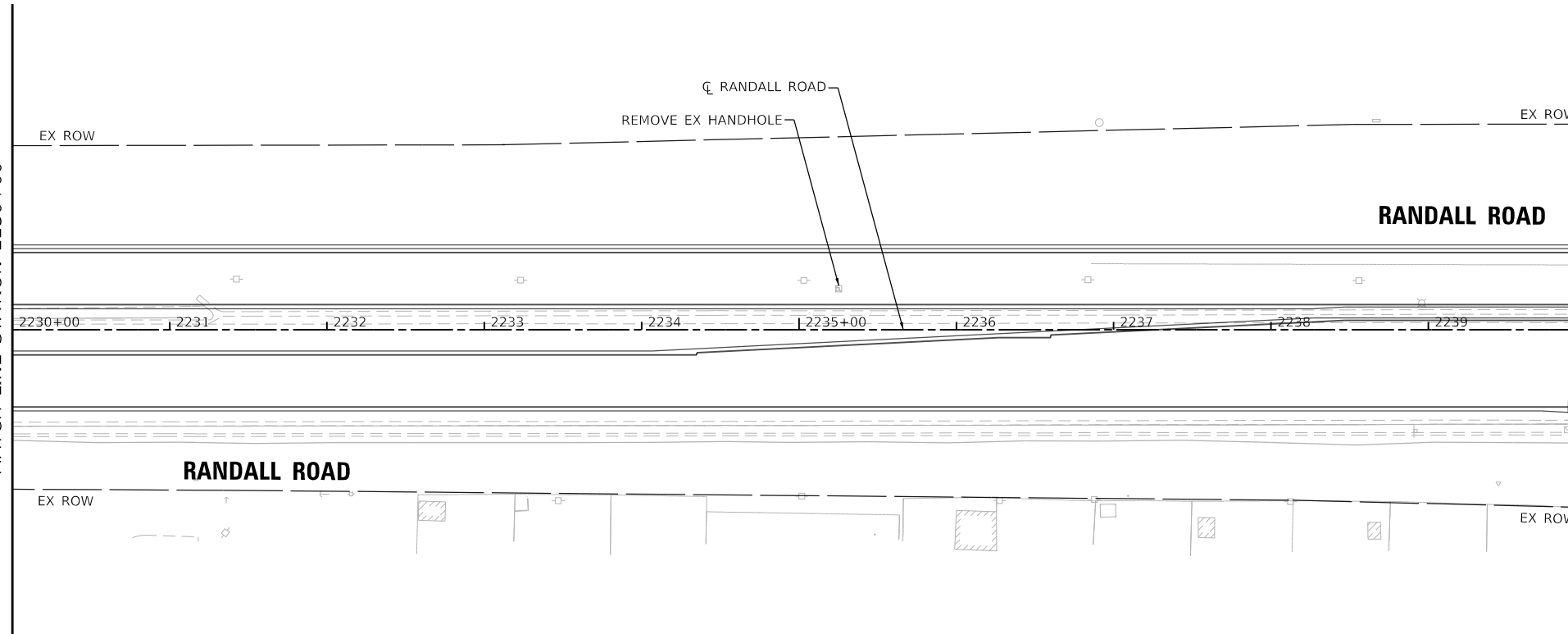
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT PLAN
 RANDALL RD (POLARIS/ACORN TO MILLER RD)**

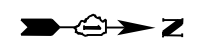
SCALE: 1" = 50' SHEET 34 OF 43 SHEETS STA. 2208+00 TO STA. 2230+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	367
CONTRACT NO. 61J93			ILLINOIS FED. AID PROJECT	

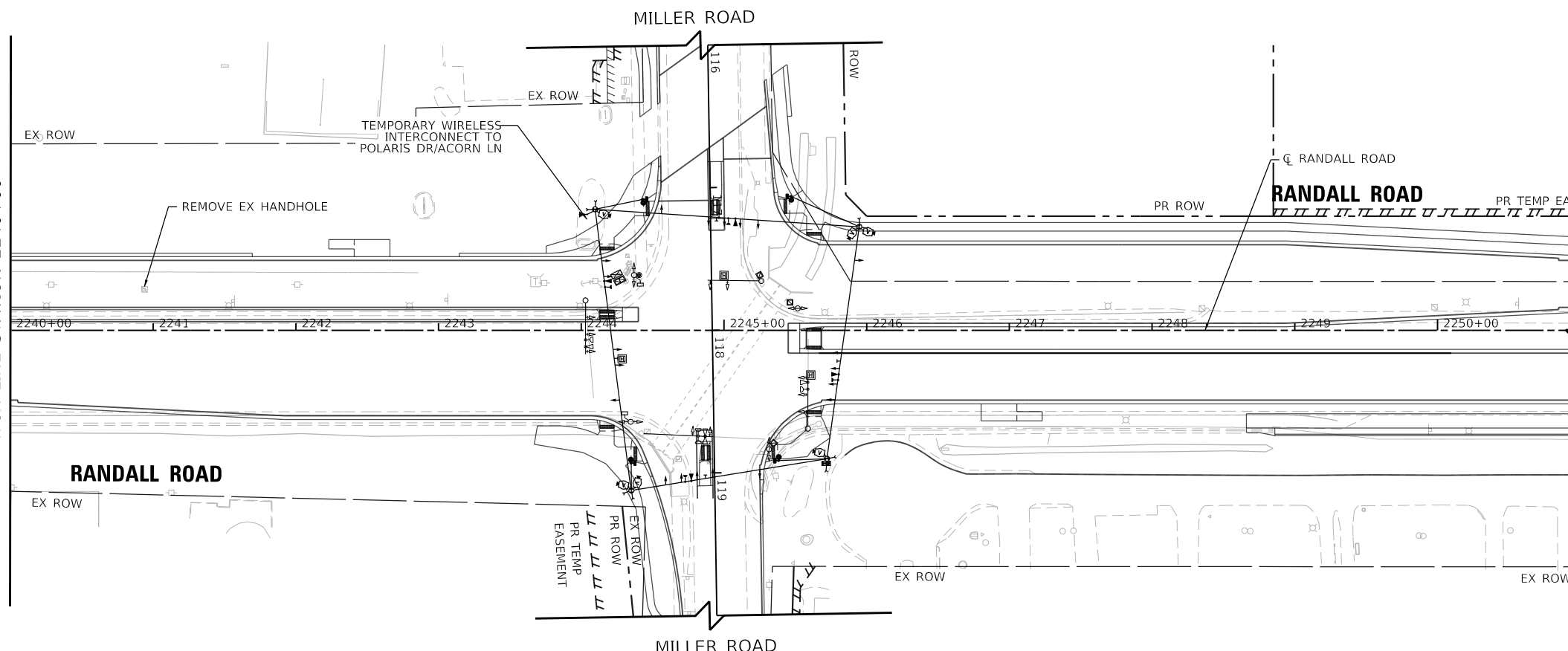
SEE SHEET NO. 367
 MATCH LINE STATION 2230+00



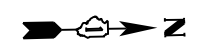
MATCH LINE STATION 2240+00
 SEE BELOW LEFT



SEE ABOVE RIGHT
 MATCH LINE STATION 2240+00



RANDALL ROAD



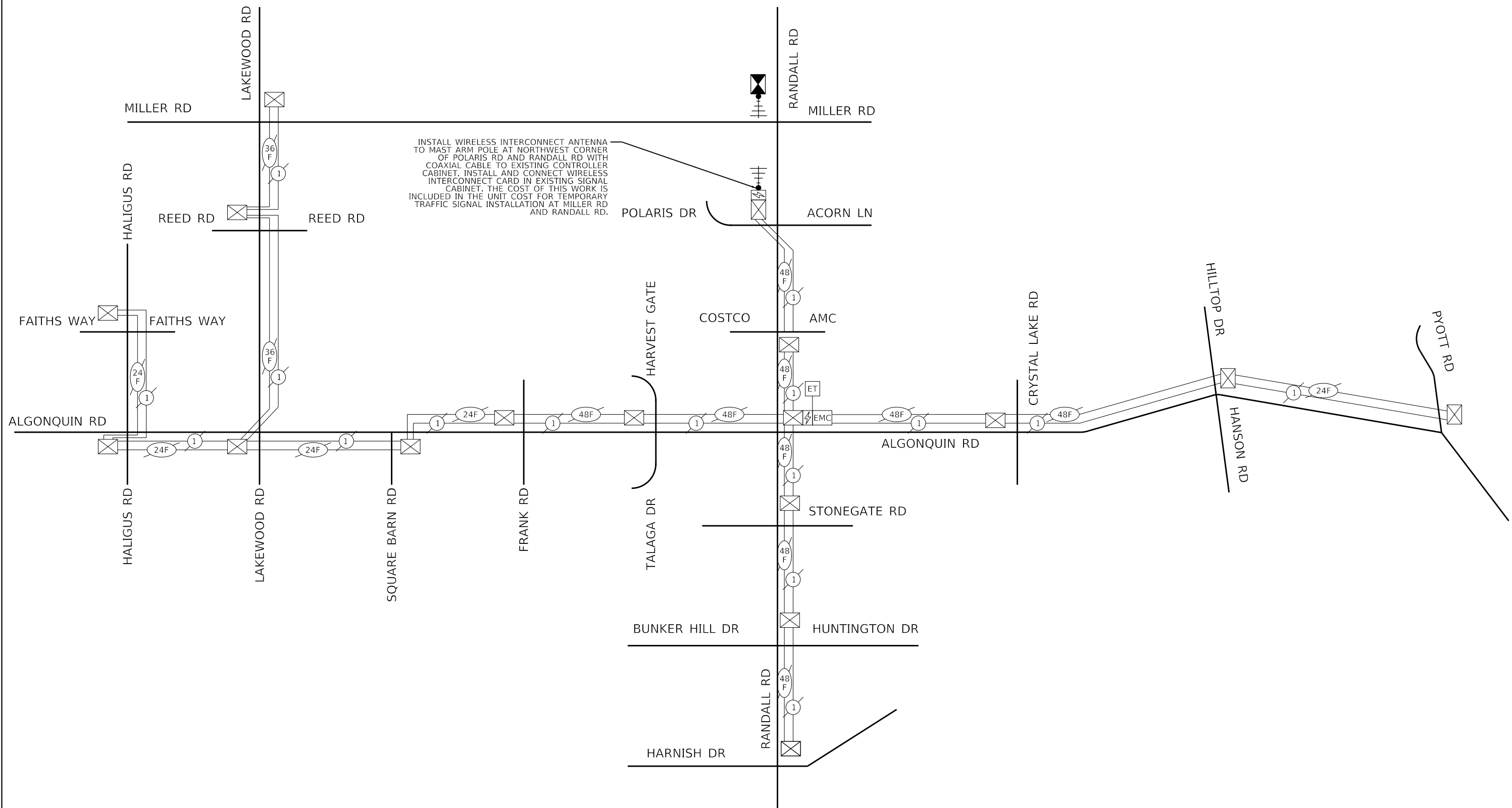
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SFN-DGN	DRAWN - BTW	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT PLAN
 RANDALL RD (POLARIS/ACORN TO MILLER RD)**

SCALE: 1" = 50' SHEET 35 OF 43 SHEETS STA. 2230+00 TO STA. 2251+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	368
CONTRACT NO. 61J93				
ILLINOIS		FED. AID PROJECT		



TRANSYSTEMS
 1475 EAST WOODFIELD ROAD, SUITE 600
 SCHUMBURG, ILLINOIS 60173
 (847) 605-9600

FILE NAME: D:\XXXXX-SHT-TS099-T.mxd

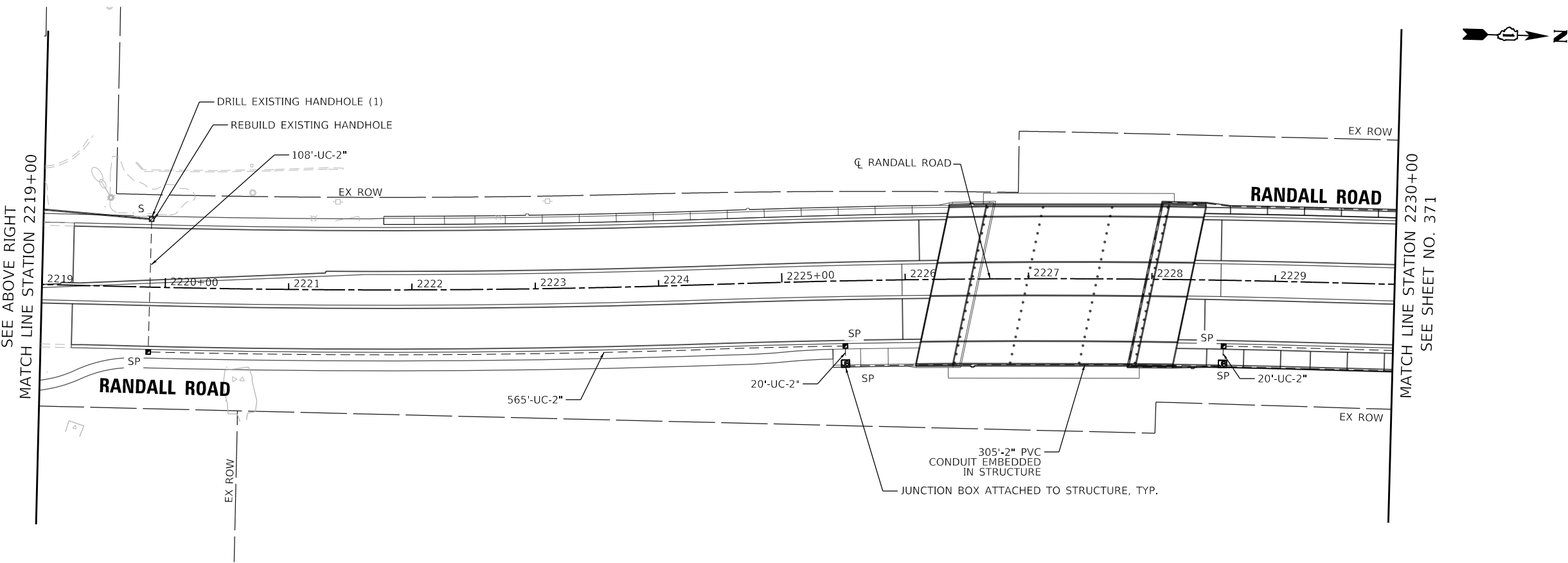
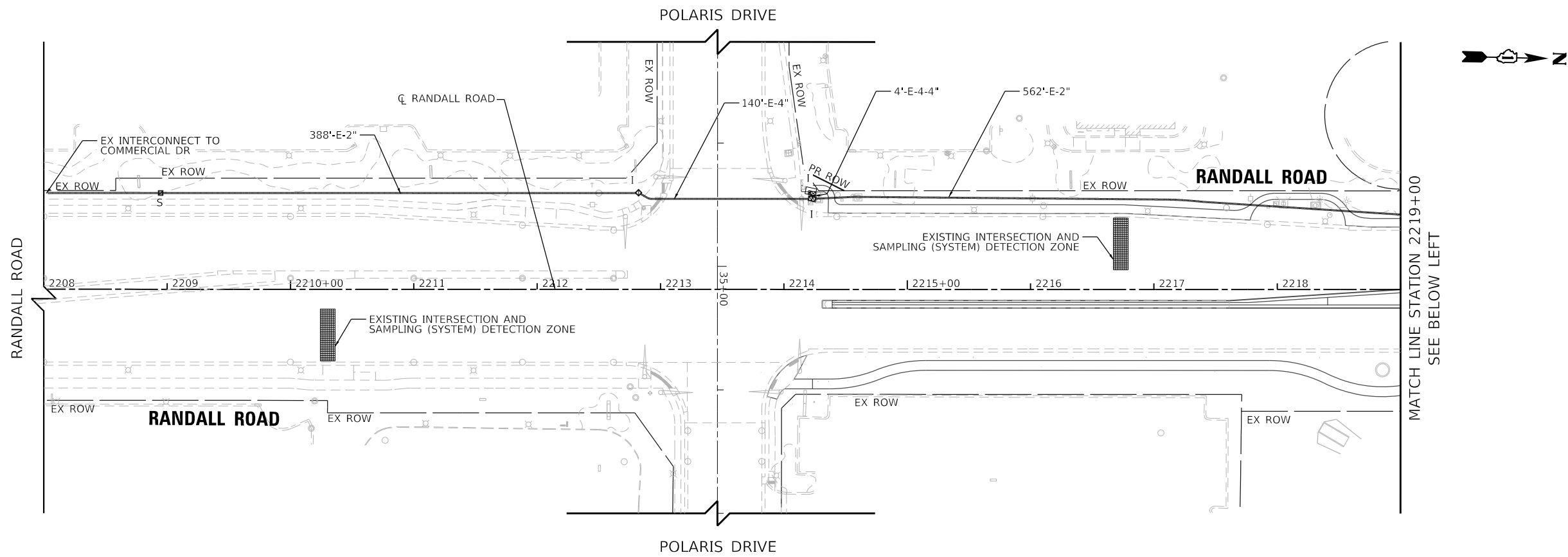
USER NAME = btwegner	DESIGNED - BTW	REVISED -
SFN-DGN	DRAWN - BTW	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - GR	REVISED -
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT SCHEMATIC
 RANDALL RD (POLARIS/ACORN TO MILLER RD)**

SCALE: NONE SHEET 36 OF 43 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	369
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J93	



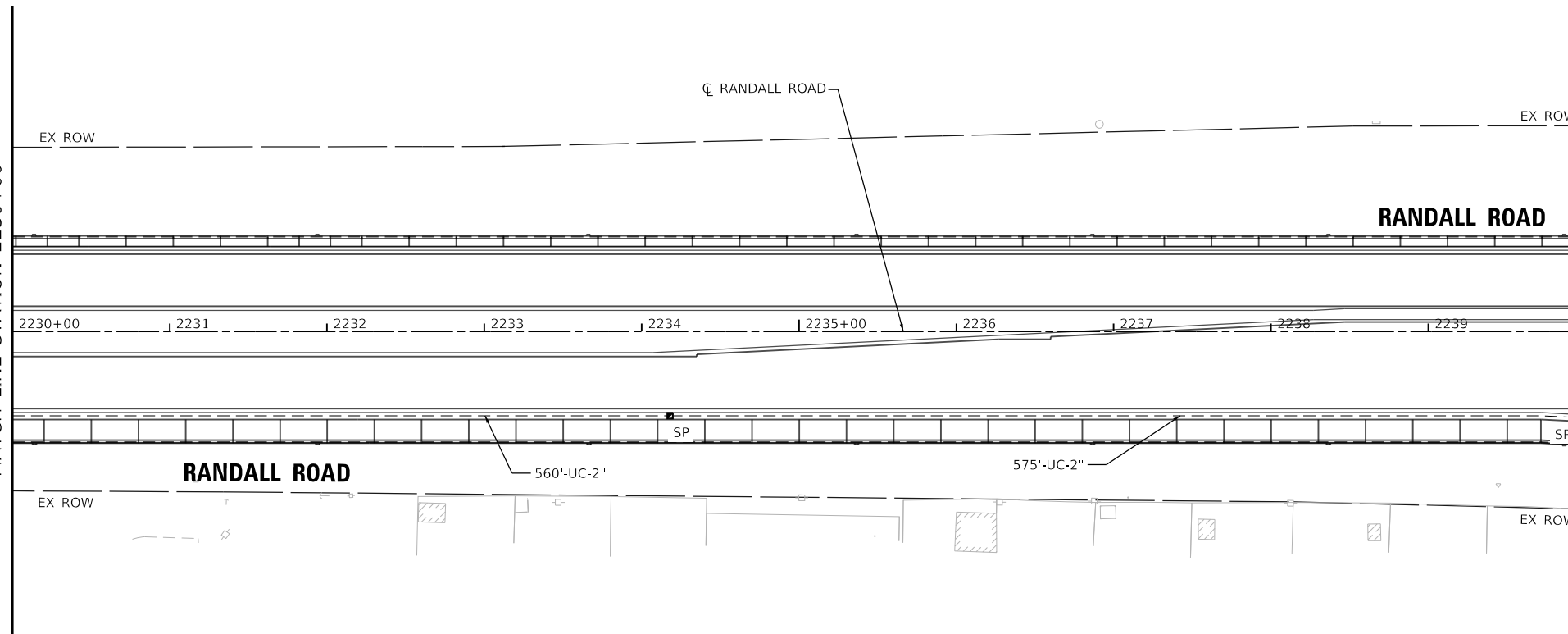
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SFN-DGN	DRAWN - BTW	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

INTERCONNECT PLAN RANDALL RD (POLARIS DR TO MILLER RD)	
SCALE: 1" = 50'	SHEET 37 OF 43 SHEETS STA. 2208+00 TO STA. 2230+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	370
CONTRACT NO. 61J93			ILLINOIS FED. AID PROJECT	

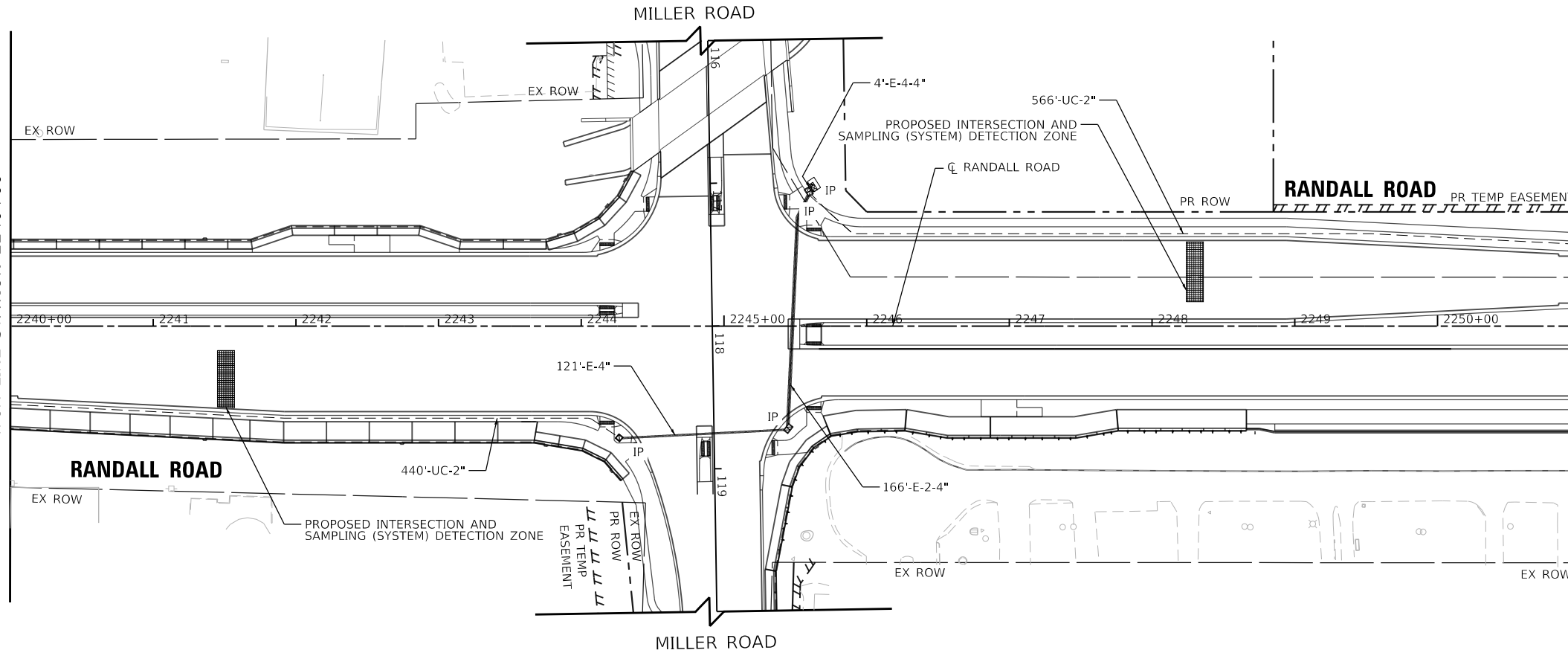
SEE SHEET NO. 370
 MATCH LINE STATION 2230+00



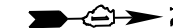
MATCH LINE STATION 2240+00
 SEE BELOW LEFT



SEE ABOVE RIGHT
 MATCH LINE STATION 2240+00



MATCH LINE STATION 2251+00
 SEE SHEET NO. 372



USER NAME = btwegner	DESIGNED - BTW	REVISED -
SFN-DGN	DRAWN - BTW	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - GR	REVISED -
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

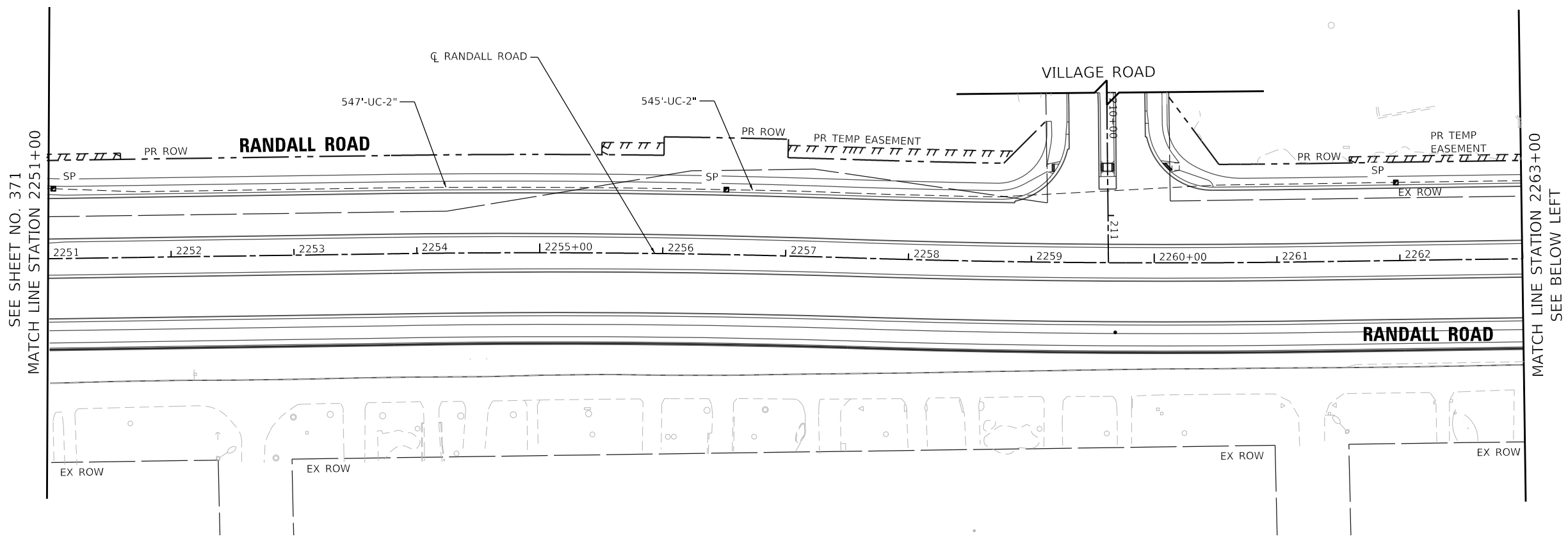
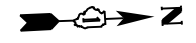
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN RANDALL RD
 (MILLER RD TO VILLAGE RD)**

SCALE: 1" = 50' SHEET 38 OF 43 SHEETS STA. 2230+00 TO STA. 2251+00

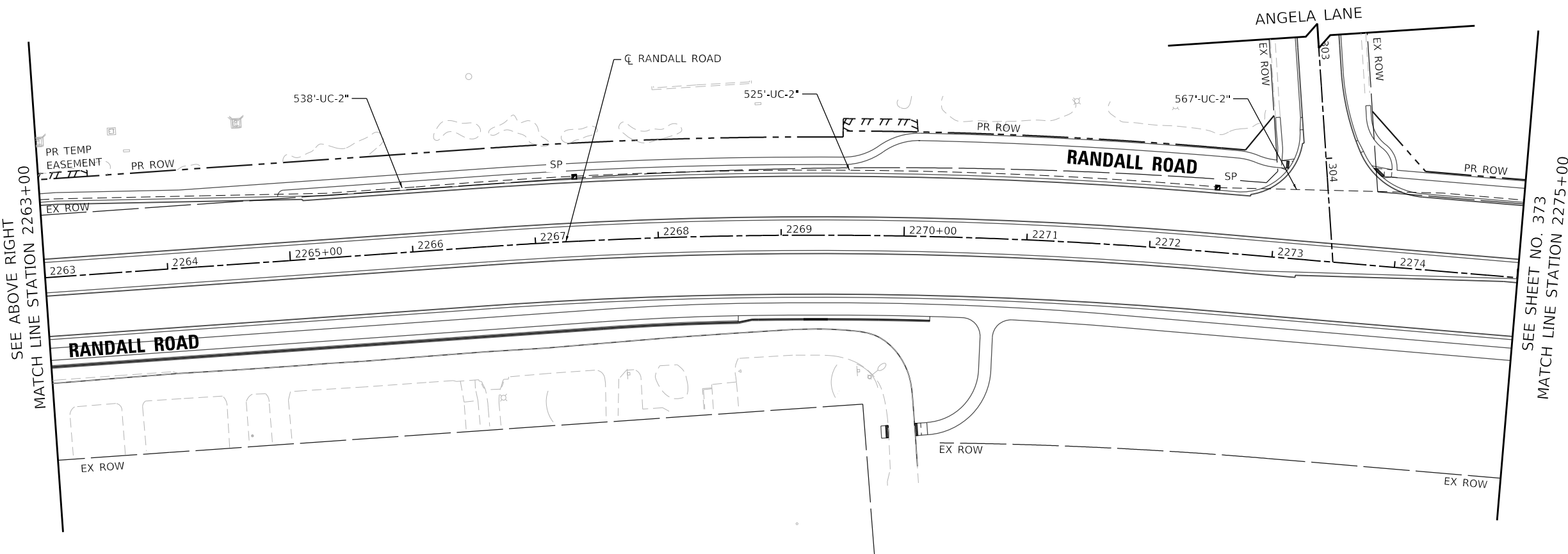
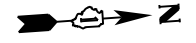
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	371
CONTRACT NO. 61J93				

ILLINOIS FED. AID PROJECT



SEE SHEET NO. 371
MATCH LINE STATION 2251+00

MATCH LINE STATION 2263+00
SEE BELOW LEFT



SEE ABOVE RIGHT
MATCH LINE STATION 2263+00

SEE SHEET NO. 373
MATCH LINE STATION 2275+00

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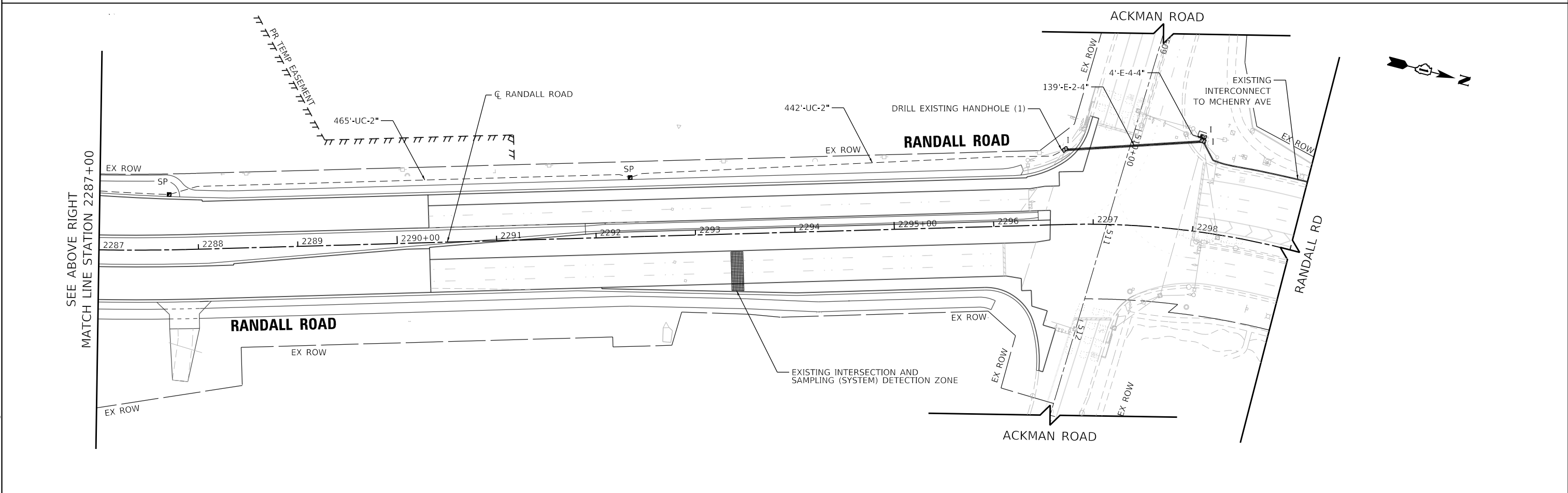
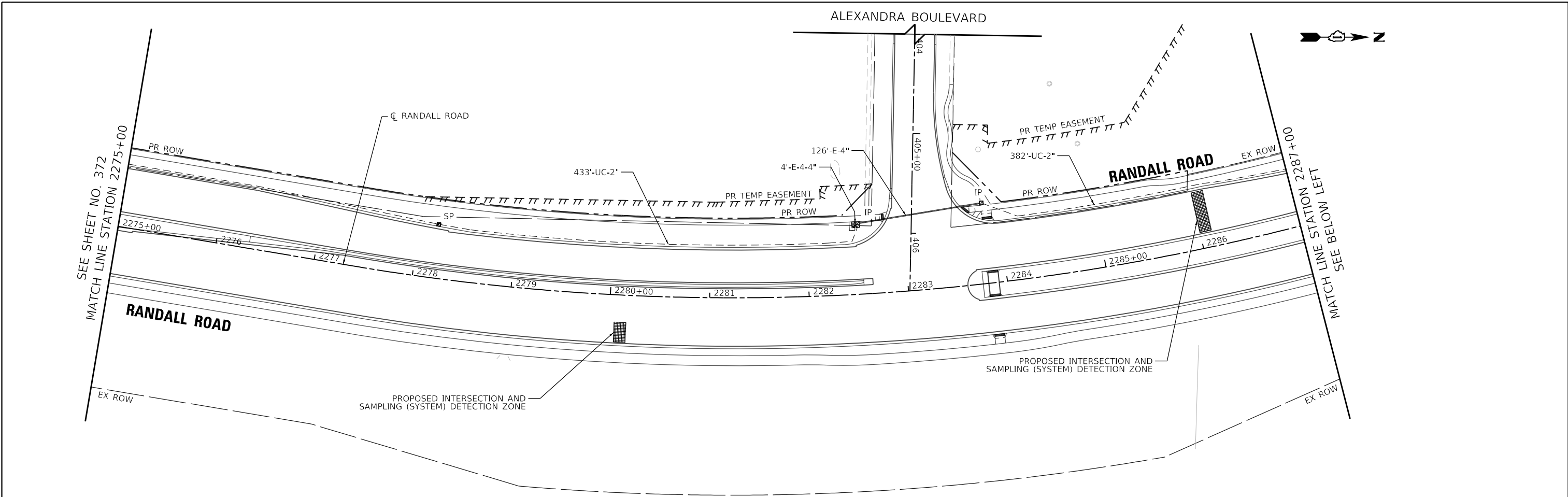
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PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN RANDALL RD
(VILLAGE RD TO ANGELA LN)**

SCALE: 1" = 50' SHEET 39 OF 43 SHEETS STA. 2251+00 TO STA. 2275+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	372
CONTRACT NO. 61J93			ILLINOIS FED. AID PROJECT	

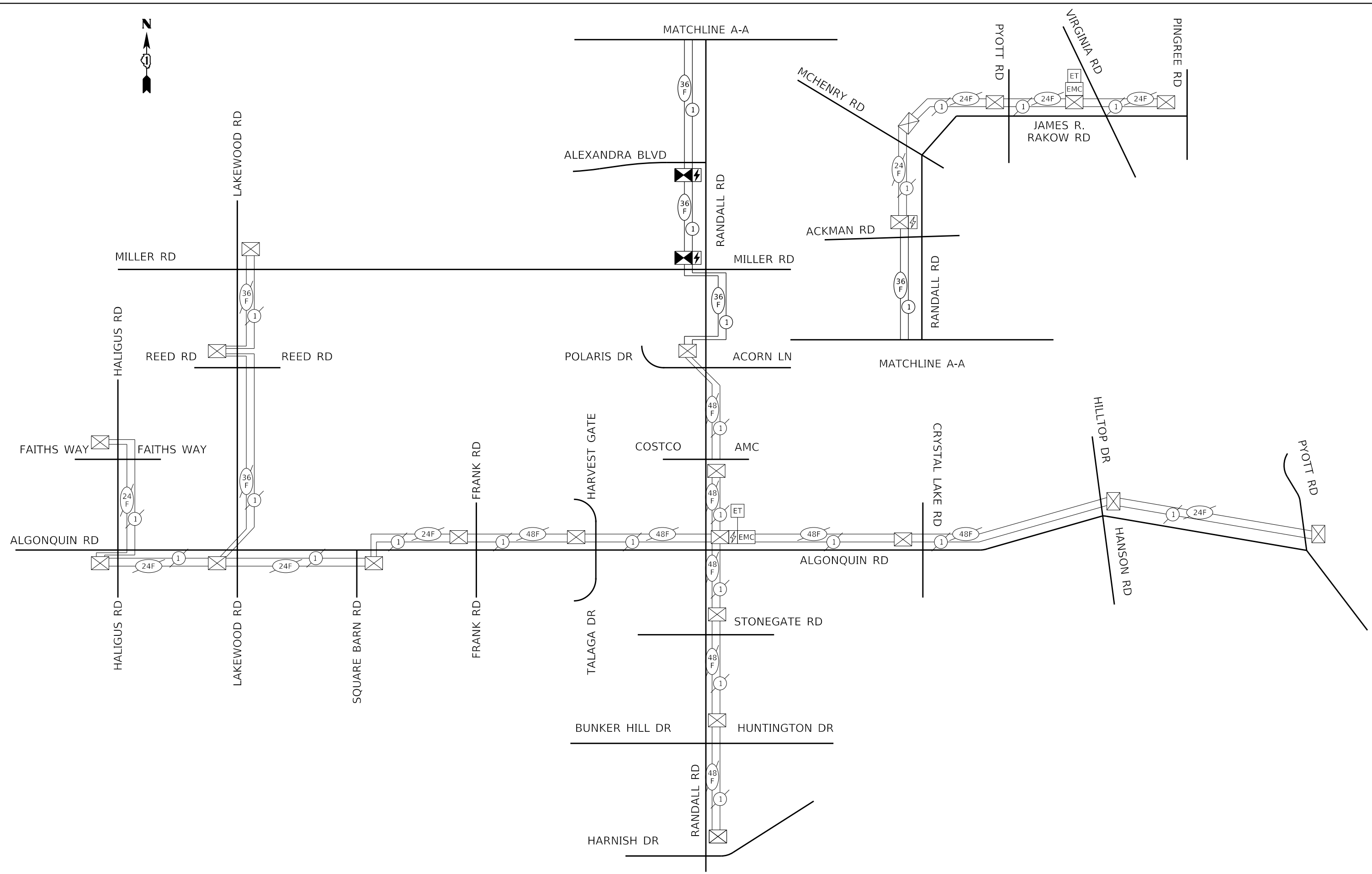


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PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN RANDALL RD
 (ANGEL LN TO ACKMAN RD)**
 SCALE: 1" = 50'
 SHEET 40 OF 43 SHEETS
 STA. 1275+00 TO STA. 1297+13.88

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	373
CONTRACT NO. 61J93			ILLINOIS FED. AID PROJECT	



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FILE NAME: D:\XXXXX-SHT-TSS100-PRC

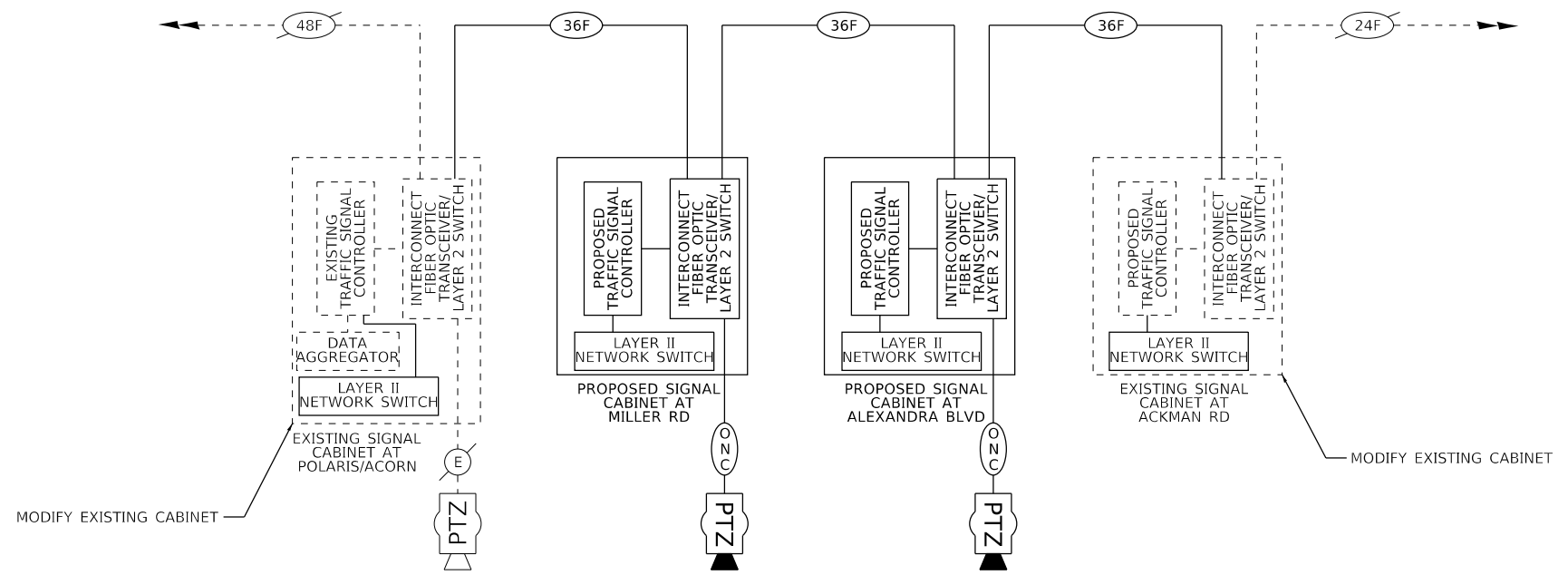
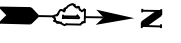
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PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT SCHEMATIC
 RANDALL RD (POLARIS DR TO ACKMAN RD)**

SCALE: SHEET 41 OF 43 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	374
CONTRACT NO. 61J93			ILLINOIS FED. AID PROJECT	



LEGEND:

- EXISTING
- PTZ CAMERA ETHERNET/POWER CABLE

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 (847) 605-9600

FILE NAME: D:\XXXXX-SHT-TS5100-PRC

USER NAME = btwegner	DESIGNED - BTW	REVISED -
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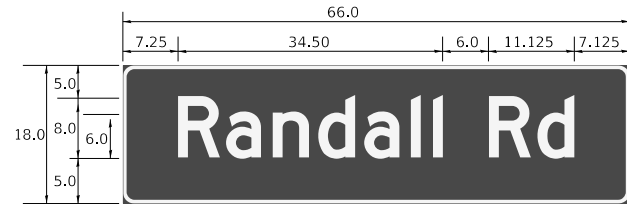
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT
 FIBER OPTIC CONNECTION AND CABINETS SCHEMATIC**

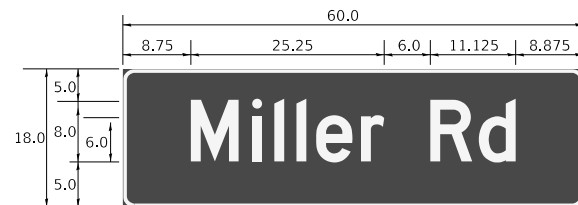
SCALE: NONE SHEET 42 OF 43 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	375
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J93	

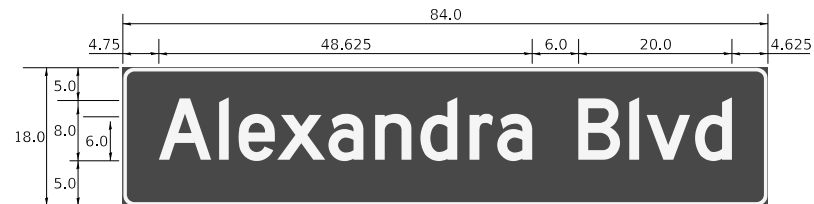
PANEL SIGN DESIGN LED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	8.25	LED	N/A	3



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	7.50	LED	N/A	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	10.50	LED	N/A	2

NOTES:

- FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION, PLEASE SEE DISTRICT ONE "MAST ARM MOUNTED STREET NAME SIGNS" DETAIL AND "LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM DETAIL".

USER NAME = btwegner	DESIGNED - BTW	REVISED -
SFN-DGN	DRAWN - BTW	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - GR	REVISED -
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	376
CONTRACT NO. 61J93			ILLINOIS FED. AID PROJECT	

SCHEDULE OF QUANTITIES

NO	PAY ITEM NUMBER	PAY ITEM NAME	UNIT	QTY TOTAL
1	80400100	ELECTRIC SERVICE INSTALLATION	EACH	2
2	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	0.50
3	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	70
4	81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	450
5	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	945
6	81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	4,205
7	81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	4
8	81301290	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 12" X 12" X 6"	EACH	4
9	81603020	UNIT DUCT, 600V, 3-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	7,325
10	81603050	UNIT DUCT, 600V, 3-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	3,350
11	81603110	UNIT DUCT, 600V, 4-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	975
12	81603115	UNIT DUCT, 600V, 3-1C NO.1, 1/C NO.1 GROUND, (XLP-TYPE USE), 2" DIA. POLYETHYLENE	FOOT	1,275
13	81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	4,200
14	81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	12,715
15	81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	475
16	81702440	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 1	FOOT	490
17	81800330	AERIAL CABLE, 3-1/C NO. 6 WITH MESSENGER WIRE	FOOT	1,500
18	82500370	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 200AMP	EACH	2
19	83008500	LIGHT POLE, ALUMINUM, 40 FT. M.H., 12 FT. MAST ARM	EACH	18
20	83009500	LIGHT POLE, ALUMINUM, 45 FT. M.H., 12 FT. MAST ARM	EACH	16
21	83050800	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 12 FT. MAST ARM	EACH	51
22	83600357	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" X 8'	EACH	12
23	83600365	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8'	EACH	58
24	83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	56
25	84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	14
26	84200804	REMOVAL OF POLE FOUNDATION	EACH	27
27	84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	13
28	84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
29	X8301802	REMOVE TEMPORARY WOOD POLE	EACH	2
30	X8302161	TEMPORARY WOOD POLE, 60 FT., CLASS 4	EACH	2
31	X1400238	LUMINAIRE, LED, SPECIAL	EACH	94
32	X8211008	TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	18
33	Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	94
34	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	30

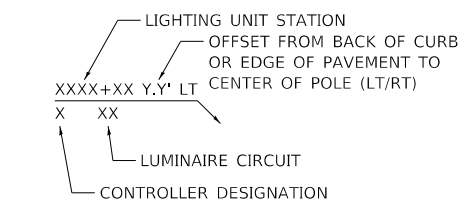
GENERAL NOTES

- ROADWAY LIGHTING REQUIREMENTS FOR THIS PROJECT SHALL COMPLY WITH THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), IDOT AND RECURRING SPECIAL PROVISIONS, CONTRACT SPECIAL PROVISIONS, AND THE AMERICAN NATIONAL STANDARD PRACTICE FOR ROADWAY LIGHTING AND THE ANSI/IES RP-8.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES AND THE LIGHTING CONTROLLER FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER. THE EXACT LOCATIONS OF ALL ITEMS SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO STARTING WORK.
- TO MAINTAIN THE STRUCTURAL INTEGRITY OF ALUMINUM POLES WITH MAST ARMS, THEY SHALL NOT BE ERECTED AND LEFT TO STAND WITHOUT LUMINAIRES. NOTE THAT THE CONTRACTOR SHALL NOT BE PAID FOR POLES UNTIL LUMINAIRES ARE INSTALLED. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS FOR THE ELECTRICAL SERVICE FOR THE PROPOSED ROADWAY LIGHTING. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR TIMELY NOTIFICATION AND COORDINATION WITH THE ELECTRIC UTILITY COMPANY.
- THE LIGHTING CONTROLLER SHALL BE CONSTRUCTED TO UL STANDARD 508.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHTS AND THE LIKE SHALL REMAIN WITH THE CONTRACTOR.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENT FOR BURIED WARNING TAPE, SPECIFIED AS PART OF "UNDERGROUND RACEWAYS". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS, AS APPLICABLE.
- THE POLE SETBACK FOR THE PROPOSED LIGHTING UNITS SHALL BE 5 FEET MIN. FROM FACE-OF-CURB TO THE CENTER OF POLE, UNLESS OTHERWISE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL ROTATE LUMINAIRE MAST ARM AND LUMINAIRES AS SHOWN IN PLANS. CONTRACTOR SHALL VERIFY ROTATION PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE EXISTING BEACON LIGHTING DE-ENERGIZING AND REMOVAL WITH COMED. CONTRACTOR SHALL REMOVE EXISTING LIGHTING ONLY ONCE THE TEMPORARY OR PROPOSED LIGHTING IS INSTALLED AND OPERATIONAL.
- ALL SPLICES SHALL COMPLY WITH IDOT STANDARDS AND BE WEATHERPROOF. SPLICES SHALL ONLY BE CONDUCTED IN LIGHT POLE BASE OR JUNCTION BOXES. CONTRACTOR SHALL VERIFY SPLICE LOCATIONS WITH THE ENGINEER.

LEGEND

- PR LIGHTING UNIT: 47.5' M.H. ALUMINUM POLE, 12 FT. MAST ARM, LED LIGHT FIXTURE
- PR LIGHTING UNIT: 40' M.H. ALUMINUM POLE, 12 FT. MAST ARM, LED LIGHT FIXTURE
- PR COMBINATION TRAFFIC SIGNAL AND LIGHTING UNIT, 45 FT MOUNTING HEIGHT, 20 FT MAST ARM WITH LED LIGHT FIXTURE
- PR COMBINATION TRAFFIC SIGNAL AND LIGHTING UNIT, 45 FT MOUNTING HEIGHT, 20 FT DUAL MAST ARMS WITH LED LIGHT FIXTURES. SECOND MAST ARM SHALL BE PAID FOR AS STEEL LUMINAIRE MAST ARM ASSEMBLY 20 FT
- PR LIGHTING UNIT: 45' M.H. ALUMINUM POLE, 12 FT. MAST ARM, LED LIGHT FIXTURE, MOUNTED ON PARAPET WALL
- PR LIGHTING UNIT: 40' M.H. ALUMINUM POLE, 12 FT. MAST ARM, LED LIGHT FIXTURE, MOUNTED ON PARAPET WALL
- EXISTING LIGHTING UNIT
- EXISTING PRIVATE LIGHTING UNIT
- EXISTING COMBINATION SIGNAL POLE / LIGHTING UNIT
- EXISTING LIGHTING UNIT TO BE REMOVED
- EXISTING LIGHTING UNIT TO BE RELOCATED
- RELOCATED LIGHT LOCATION
- EXISTING LIGHTING UNIT TO BE REMOVED OR RELOCATED BY OTHERS
- PR LIGHTING CONTROLLER
- EX LIGHTING CONTROLLER
- PR ELECTRIC SERVICE BOX
- PR LIGHTING STAINLESS STEEL JUNCTION BOX 12"X12"X6"
- PR SERVICE INSTALLATION, VOLTAGE AS INDICATED ON PLANS
- EX UNIT DUCT WITH CABLE
- PR UNIT DUCT WITH CABLE (TYPE AND SIZE AS INDICATED ON THE PLANS)
- EXISTING COMBINATION SIGNAL POLE / LIGHTING UNIT TO BE REMOVED INCLUDED IN COST OF TRAFFIC SIGNAL REMOVAL
- TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H ATTACHED TO TEMP TRAFFIC SIGNAL POLE, 15' M.A., 40' MOUNTING HEIGHT
- TEMPORARY TRAFFIC SIGNAL POLE
- TEMPORARY LIGHTING UNIT, LED, ROADWAY, OUTPUT DESIGNATION H ATTACHED TO WOOD POLE, CLASS 4 WITH 15 FOOT MAST ARM AT MOUNTING HEIGHT SPECIFIED
- TEMPORARY WOOD POLE, CLASS 4
- AERIAL CABLE 3-1/C NO. 6 WITH MESSENGER WIRE, UNLESS OTHERWISE NOTED

CIRCUIT DESIGNATION SCHEME



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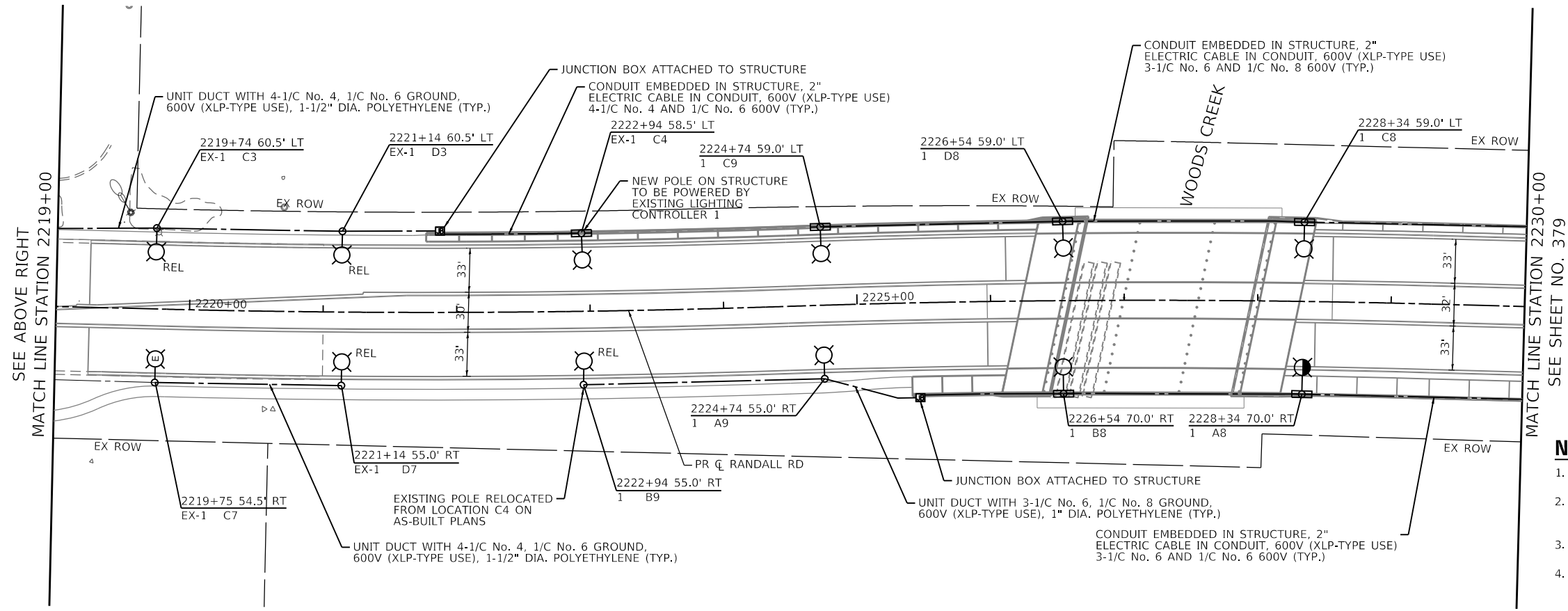
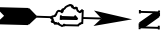
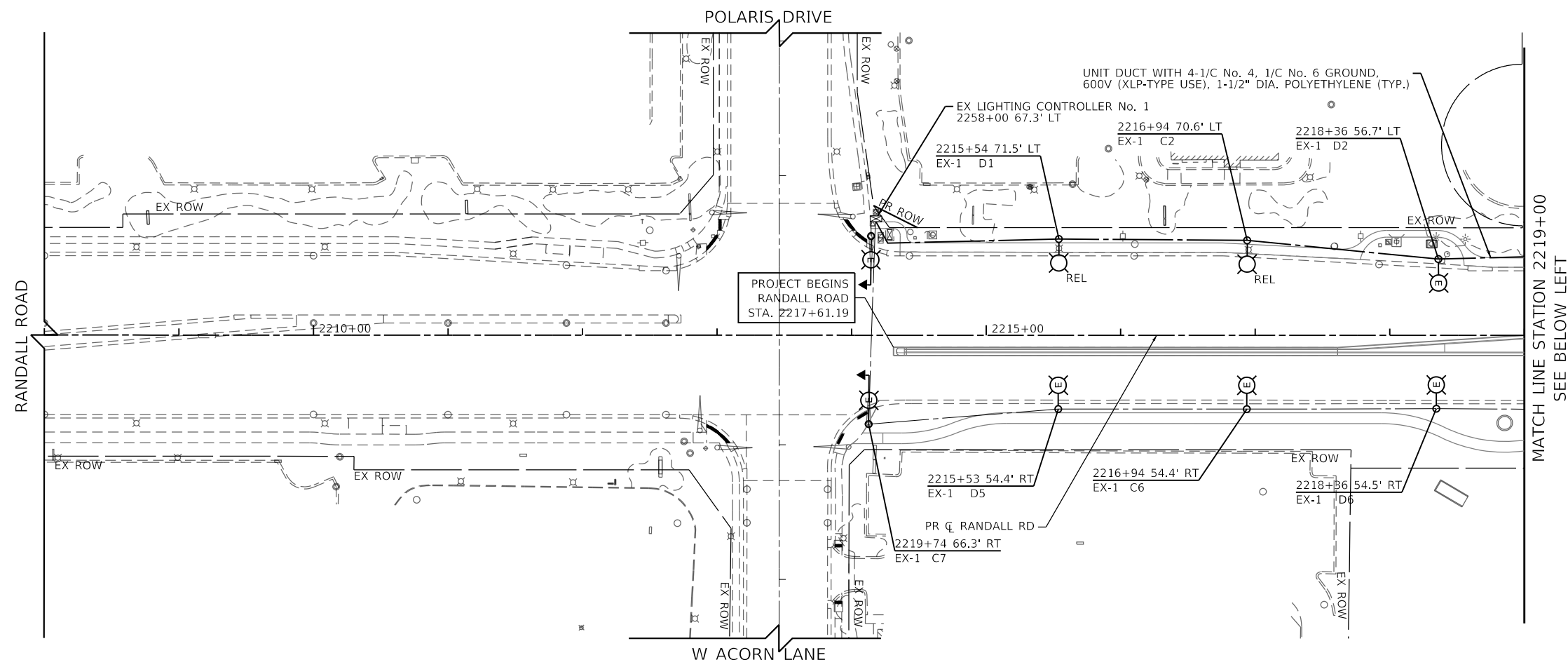
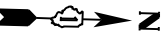
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PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RANDALL ROAD PROPOSED LIGHTING PLAN
GENERAL NOTES, LEGEND, AND SCHEDULE OF QUANTITIES**

SCALE: NONE	SHEET 1 OF 29 SHEETS	F.A.P. RTE. 336	SECTION 06-00329-02-PW	COUNTY MCHENRY	TOTAL SHEETS 735	SHEET NO. 377
				CONTRACT NO. 61J93		ILLINOIS FED. AID PROJECT



NOTES:

1. SEE SHEET NO. 377 FOR LEGEND AND GENERAL NOTES
2. SEE TRAFFIC SIGNAL PLANS (SHEETS 334 TO 376) FOR COMBINATION POLE AND MAST ARM DETAILS
3. RANDALL ROAD LANE WIDTH 11' (TYP)
4. LUMINAIRE MAST ARM AND LUMINAIRE SHALL BE ROTATED AS SHOWN IN THE PLANS.
4. SEE SHEETS 390 TO 392 FOR POLARIS / ACORN LIGHTING AS-BUILT PLANS

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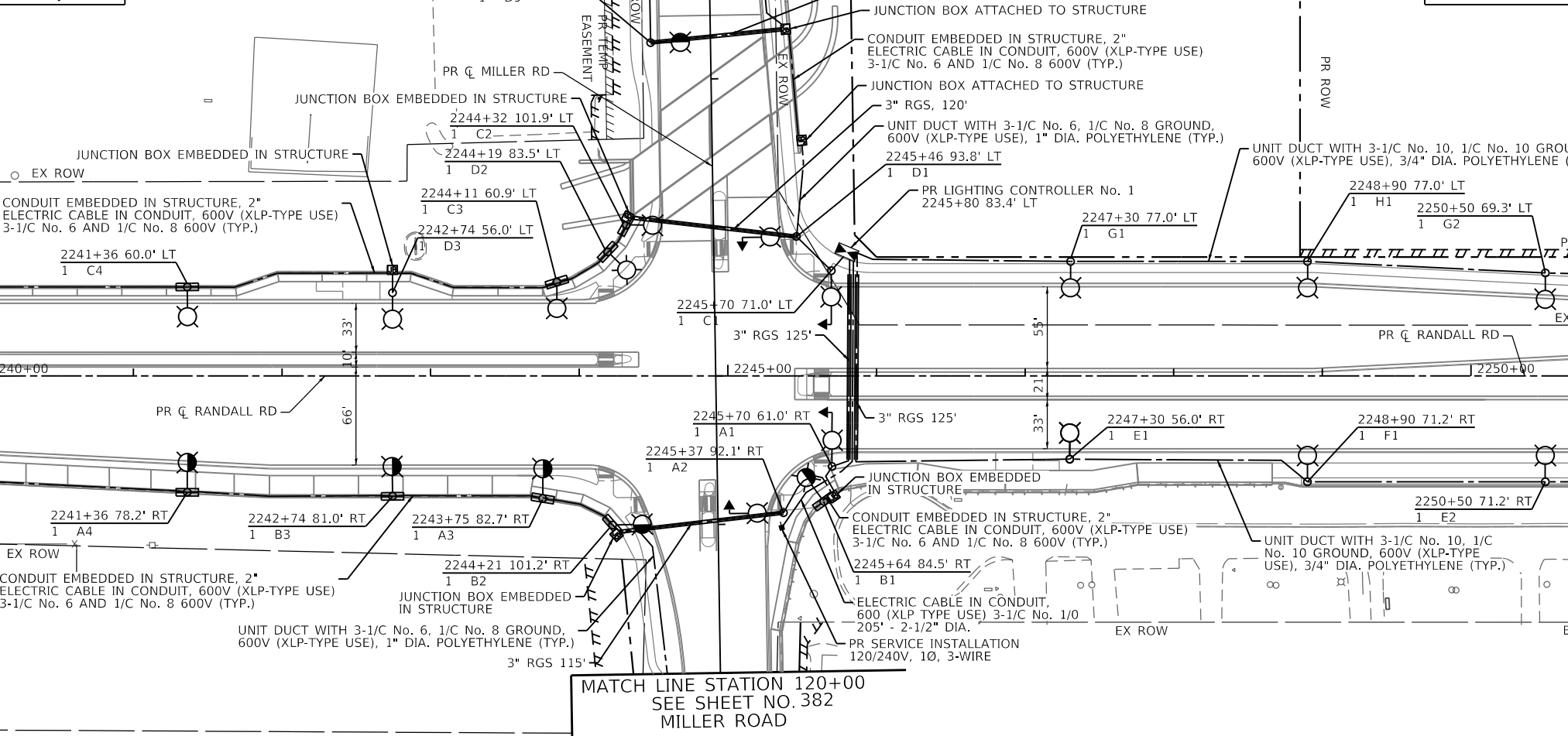
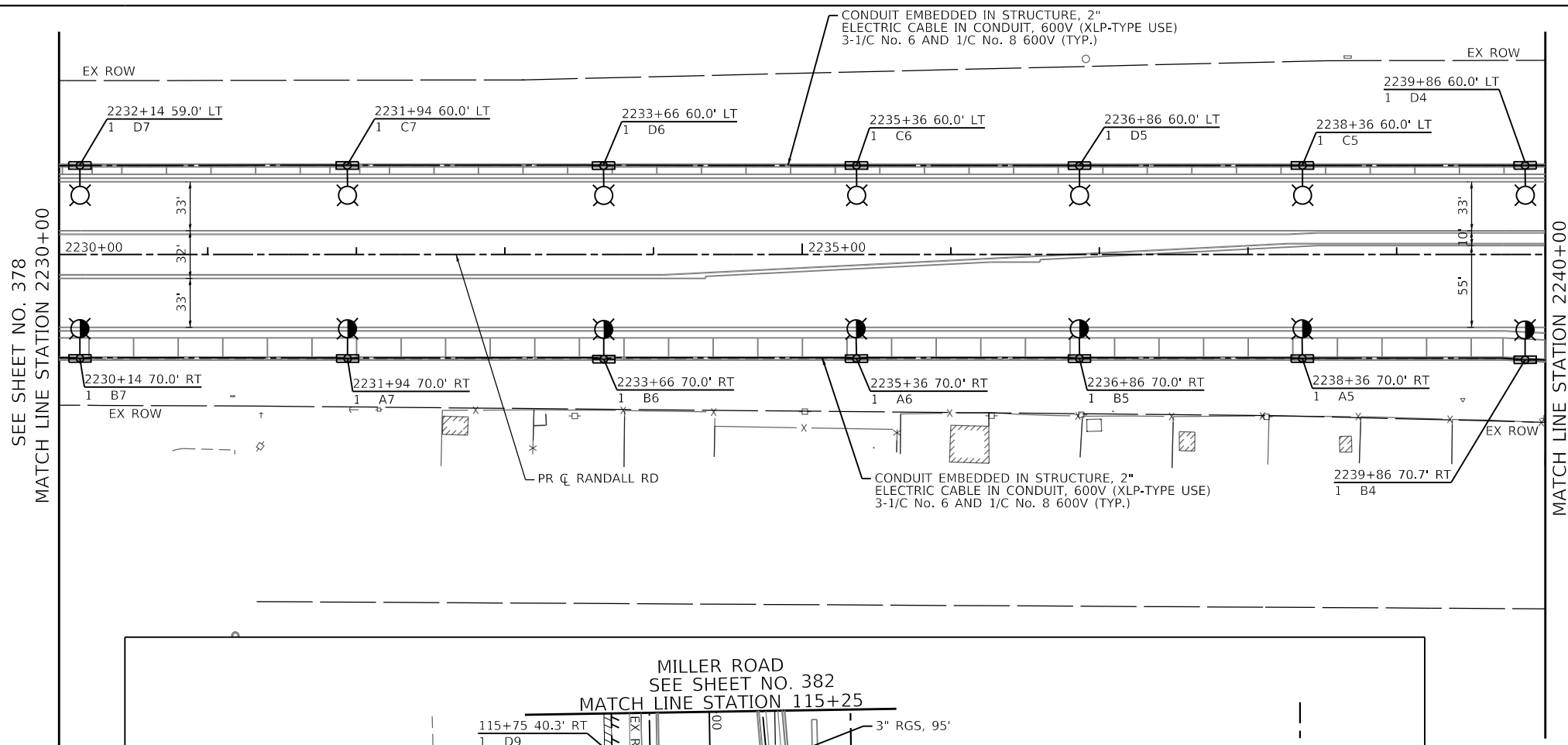
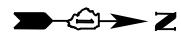
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PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
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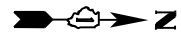
RANDALL ROAD PROPOSED LIGHTING PLANS

SCALE: 1" = 50' SHEET 2 OF 29 SHEETS STA. 1208+00 TO STA. 2230+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	378
			CONTRACT NO. 61J93	
		ILLINOIS	FED. AID PROJECT	



- NOTES:**
- SEE SHEET NO. 377 FOR LEGEND AND GENERAL NOTES
 - SEE TRAFFIC SIGNAL PLANS (SHEETS 334 TO 376) FOR COMBINATION POLE AND MAST ARM DETAILS
 - RANDALL ROAD LANE WIDTH 11' (TYP)
 - LUMINAIRE MAST ARM AND LUMINAIRE SHALL BE ROTATED AS SHOWN IN THE PLANS.



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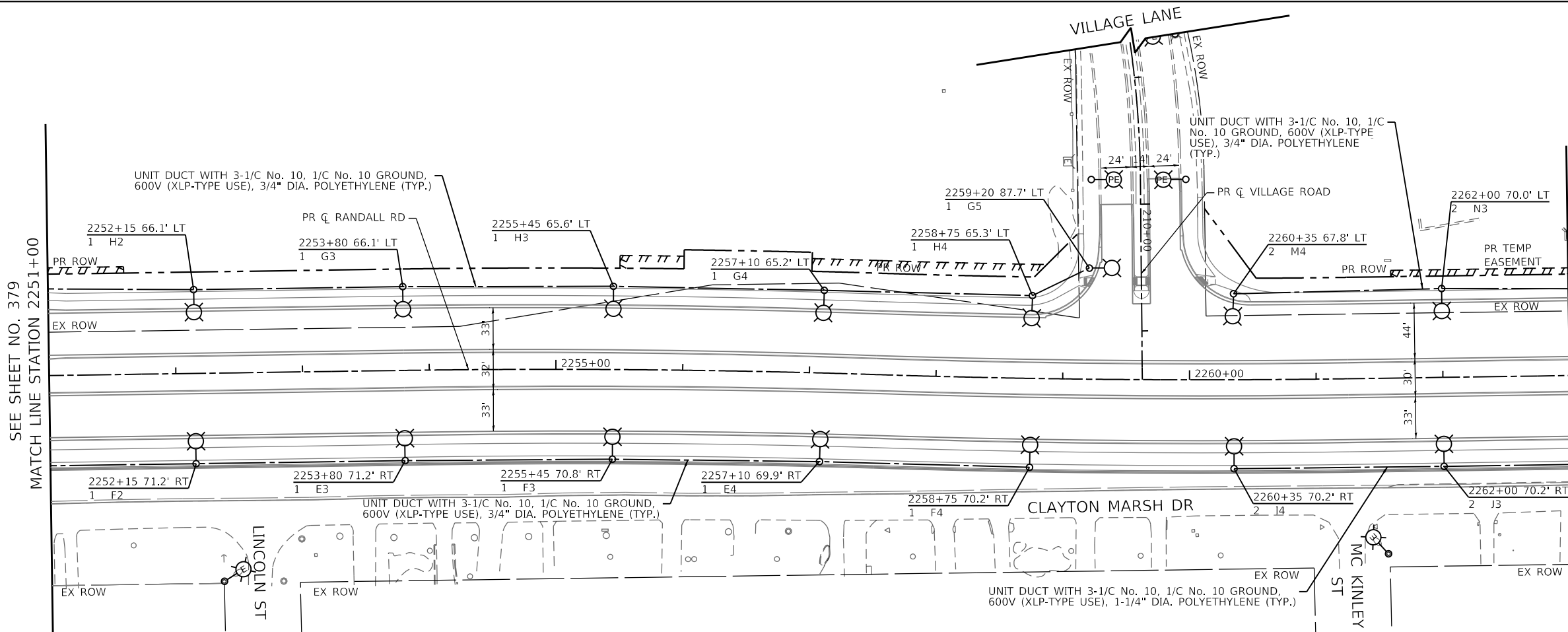
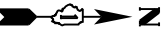
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PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

RANDALL ROAD PROPOSED LIGHTING PLANS

SCALE: 1" = 50' SHEET 3 OF 29 SHEETS STA. 2230+00 TO STA. 2251+00

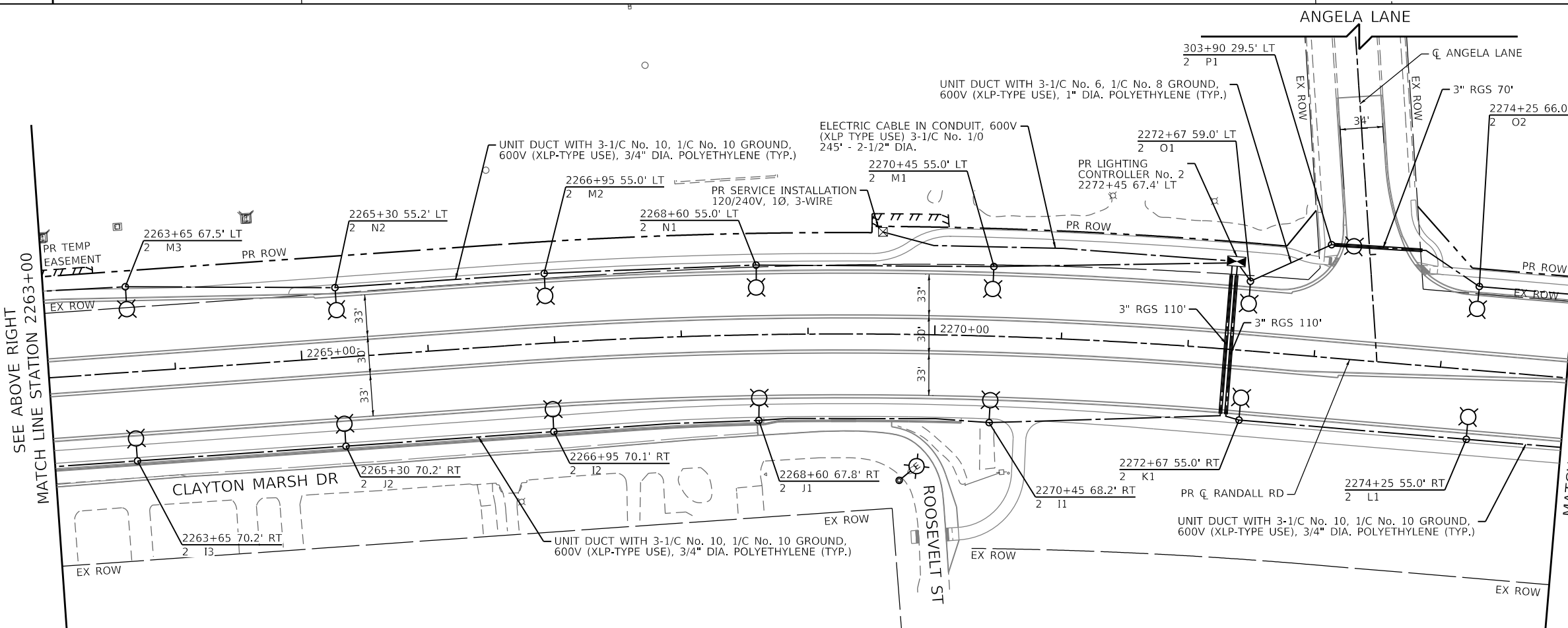
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	379
ILLINOIS / FED. AID PROJECT			CONTRACT NO. 61J93	



MATCH LINE STATION 2263+00
SEE BELOW LEFT

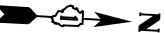
NOTES:

1. SEE SHEET NO. 377 FOR LEGEND AND GENERAL NOTES
2. SEE TRAFFIC SIGNAL PLANS (SHEETS 334 TO 376) FOR COMBINATION POLE AND MAST ARM DETAILS
3. RANDALL ROAD LANE WIDTH 11' (TYP)
4. LUMINAIRE MAST ARM AND LUMINAIRE SHALL BE ROTATED AS SHOWN IN THE PLANS.



SEE ABOVE RIGHT
MATCH LINE STATION 2263+00

MATCH LINE STATION 2275+00
SEE SHEET NO. 381



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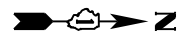
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

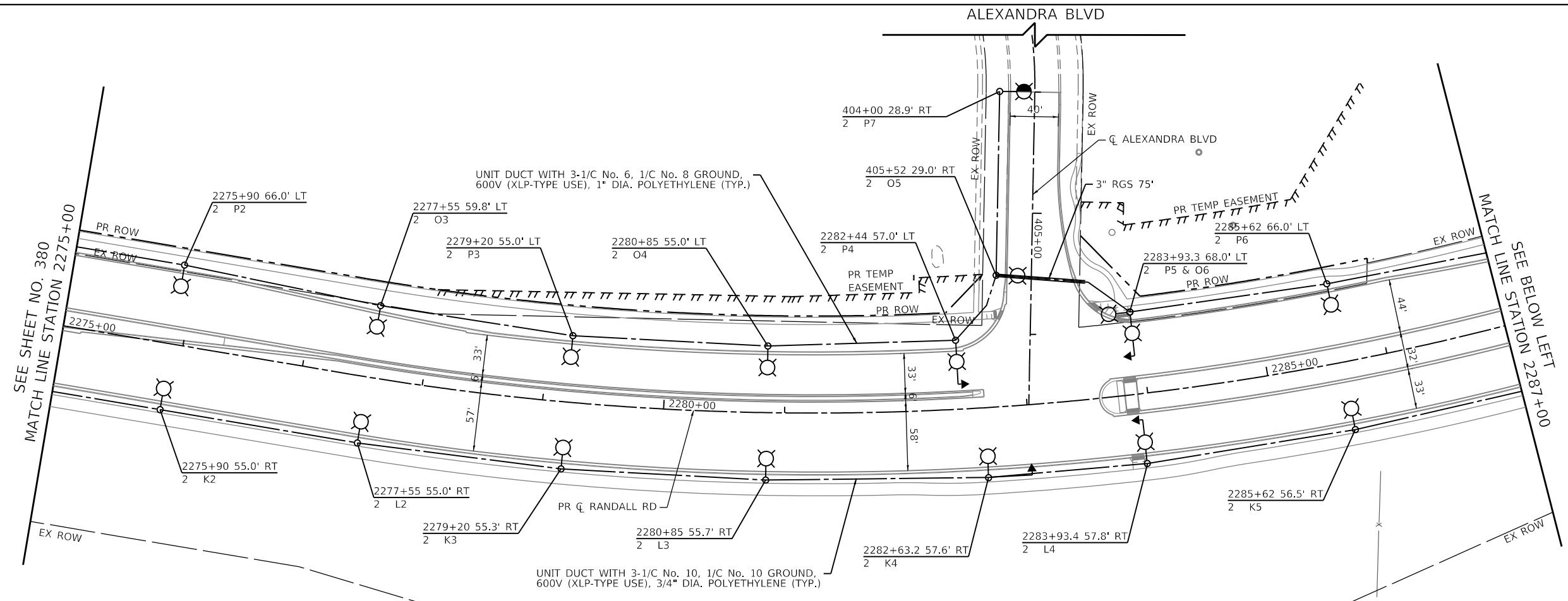
RANDALL ROAD PROPOSED LIGHTING PLANS

SCALE: 1" = 50' SHEET 4 OF 29 SHEETS STA. 2251+00 TO STA. 2275+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	380
			CONTRACT NO. 61J93	
		ILLINOIS	FED. AID PROJECT	



ALEXANDRA BLVD

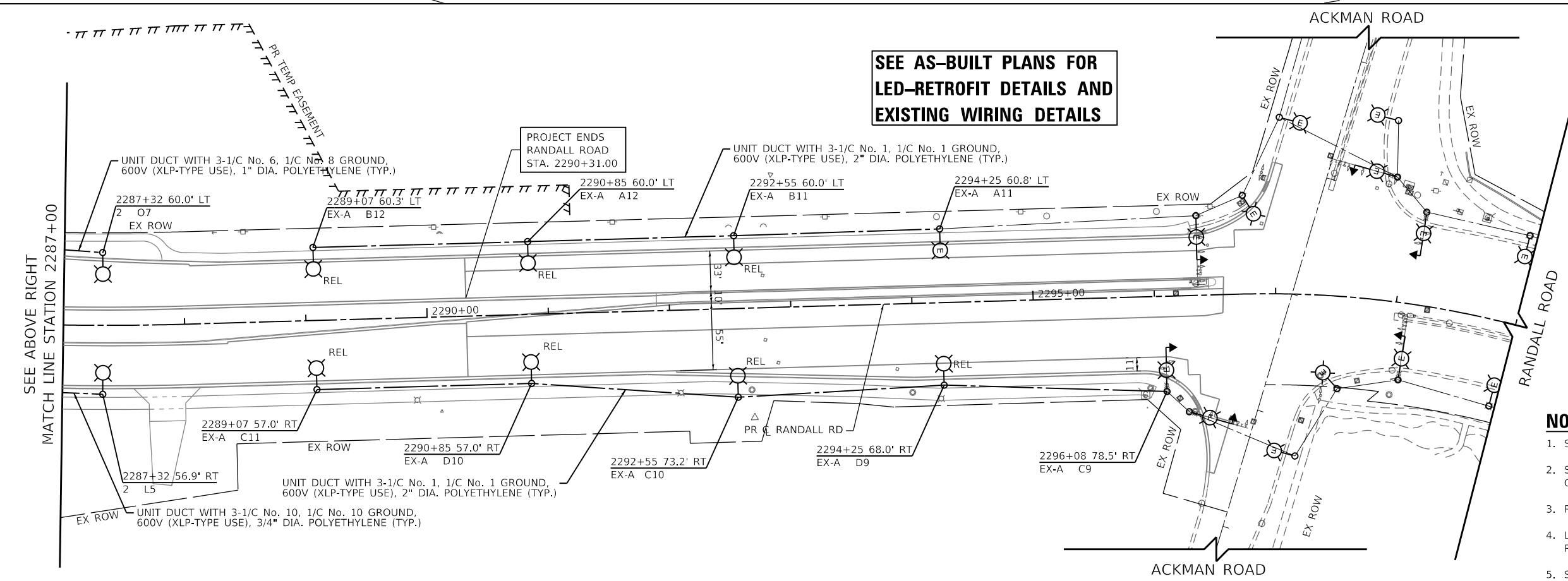


SEE SHEET NO. 380
MATCH LINE STATION 2275+00

MATCH LINE
SEE BELOW LEFT
STATION 2287+00



ACKMAN ROAD



SEE ABOVE RIGHT
MATCH LINE STATION 2287+00

SEE AS-BUILT PLANS FOR
LED-RETROFIT DETAILS AND
EXISTING WIRING DETAILS

PROJECT ENDS
RANDALL ROAD
STA. 2290+31.00

NOTES:

1. SEE SHEET NO. 377 FOR LEGEND AND GENERAL NOTES
2. SEE TRAFFIC SIGNAL PLANS (SHEETS 334 TO 376) FOR COMBINATION POLE AND MAST ARM DETAILS
3. RANDALL ROAD LANE WIDTH 11' (TYP)
4. LUMINAIRE MAST ARM AND LUMINAIRE SHALL BE ROTATED AS SHOWN IN THE PLANS.
5. SEE SHEETS 393 TO 394 FOR ACKMAN ROAD LIGHTING AS-BUILT PLANS AND LED RETROFIT.

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: D:\XXXXX-sht-light-04.dgn

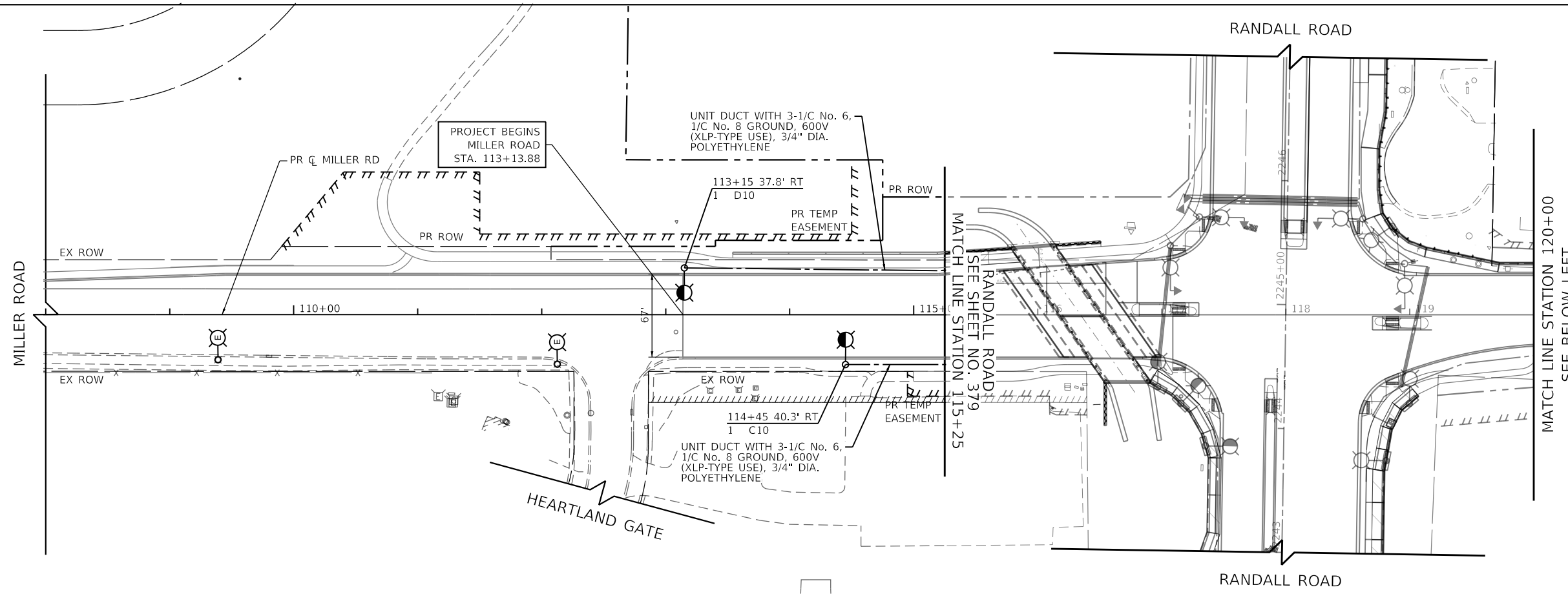
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PLOT SCALE = 100.0001' / in.	CHECKED - RCB	REVISED -
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

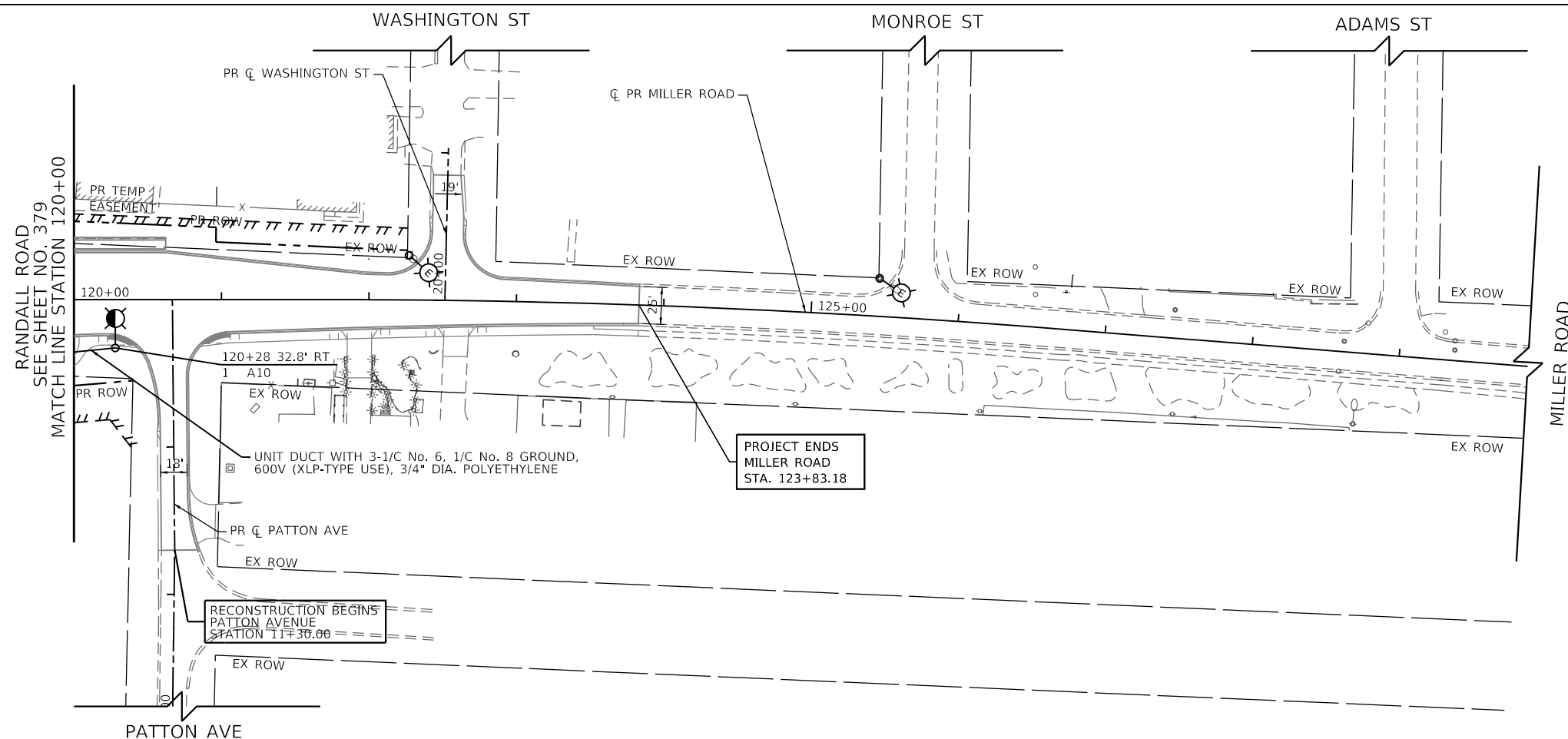
RANDALL ROAD PROPOSED LIGHTING PLANS

SCALE: 1" = 50' SHEET 5 OF 29 SHEETS STA. 2275+00 TO STA. 2299+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	381
				CONTRACT NO. 61J93
		ILLINOIS	FED. AID PROJECT	



MATCH LINE STATION 120+00
SEE BELOW LEFT



MATCH LINE STATION 120+00
SEE SHEET NO. 379

NOTES:

1. SEE SHEET NO. 377 FOR LEGEND AND GENERAL NOTES
2. SEE TRAFFIC SIGNAL PLANS (SHEETS 334 TO 376) FOR COMBINATION POLE AND MAST ARM DETAILS
3. RANDALL ROAD LANE WIDTH 11' (TYP)
4. LUMINAIRE MAST ARM AND LUMINAIRE SHALL BE ROTATED AS SHOWN IN THE PLANS.

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: D:\XXXXX-sht-light-05.dgn

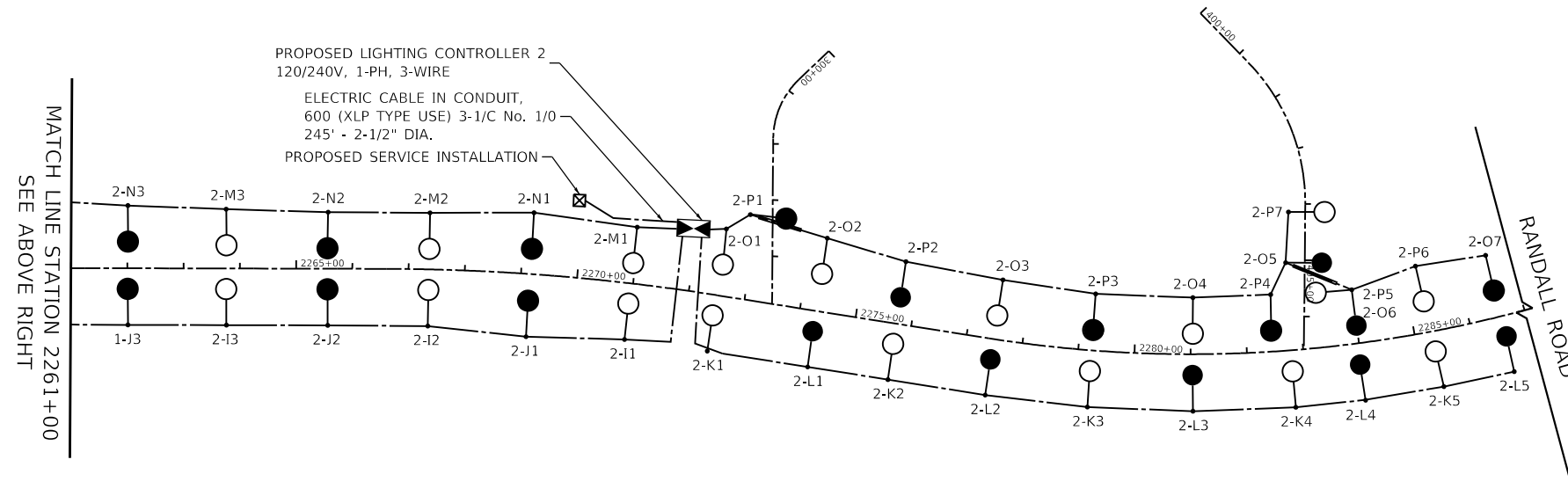
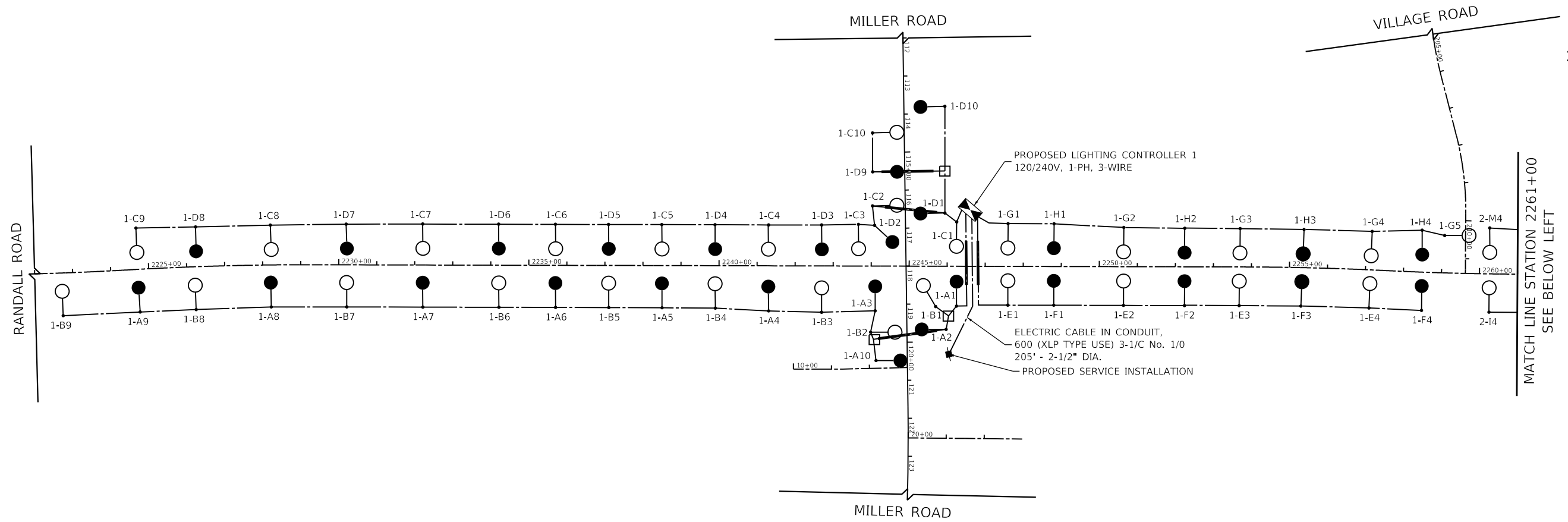
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D:\XXXXX-sht-light-05.dgn	DRAWN - JRD	REVISED -
PLOT SCALE = 100,0001' / in.	CHECKED - RCB	REVISED -
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MILLER ROAD PROPOSED LIGHTING PLAN

SCALE: 1" = 50' SHEET 6 OF 29 SHEETS STA. 113+13.38 TO STA. 124+31.13

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	382
			CONTRACT NO. 61J93	
ILLINOIS FED. AID PROJECT				



LOAD TABULATION		
PROPOSED LIGHTING CONTROLLER 1		
CIRCUIT	AMPS	WATTS
A	7.50	1800
B	6.75	1620
C	7.50	1800
D	7.50	1800
E	3.00	720
F	3.00	720
G	3.75	900
H	3.00	720
TOTAL	42.00	10,080

LOAD TABULATION		
PROPOSED LIGHTING CONTROLLER 2		
CIRCUIT	AMPS	WATTS
I	3.00	720
J	2.25	540
K	3.75	900
L	3.75	900
M	3.00	720
N	2.25	540
O	5.25	1260
P	5.25	1260
TOTAL	28.50	6,840

LEGEND	
○	LED LUMINAIRE, HORIZ. MOUNT, 240V, ON RED WIRE
●	LED LUMINAIRE, HORIZ. MOUNT, 240V, ON BLACK WIRE
◻	PROPOSED 120/240V LIGHTING CONTROLLER
---	CABLE IN CONDUIT OR UNIT DUCT (UNLESS OTHERWISE NOTED)
◻	JUNCTION BOX WITH WEATHERPROOF SPLICE

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 SCHAMBERG, ILLINOIS 60173
 (847) 605-9600

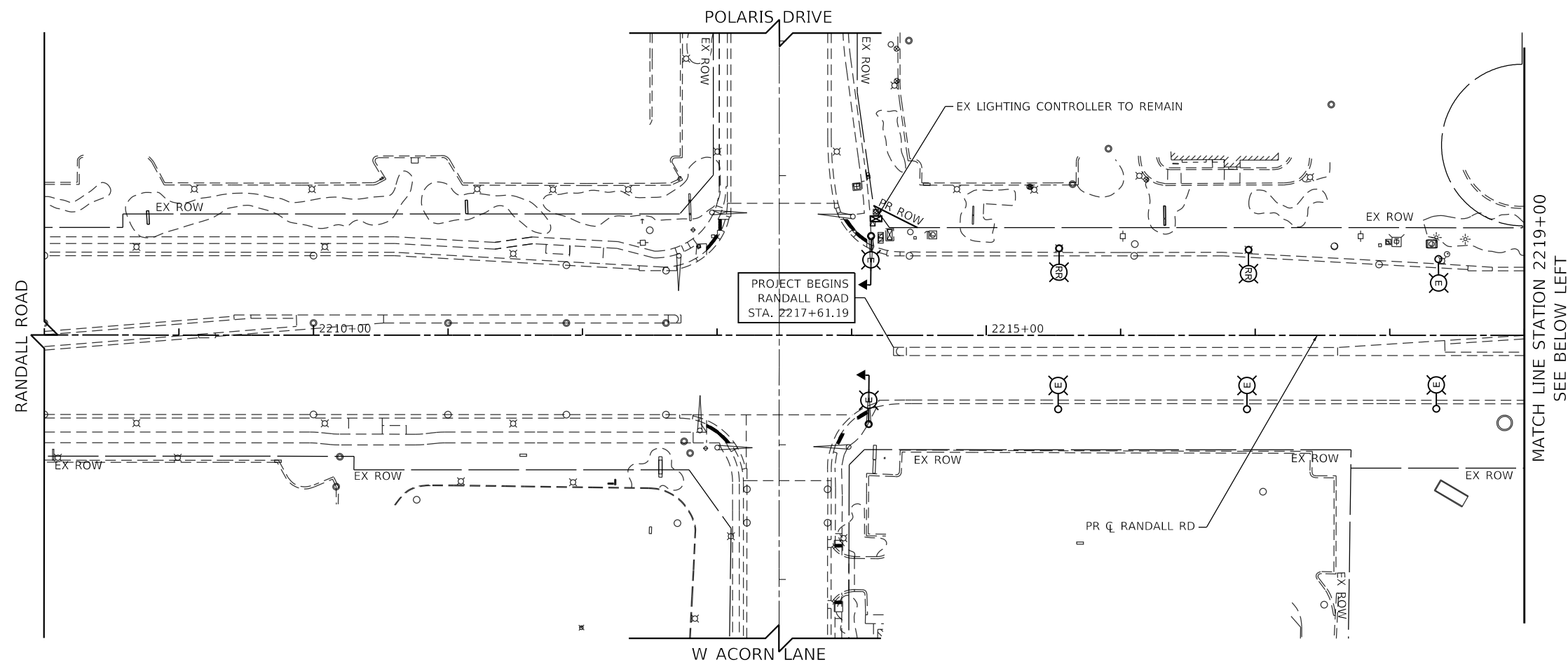
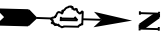
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PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

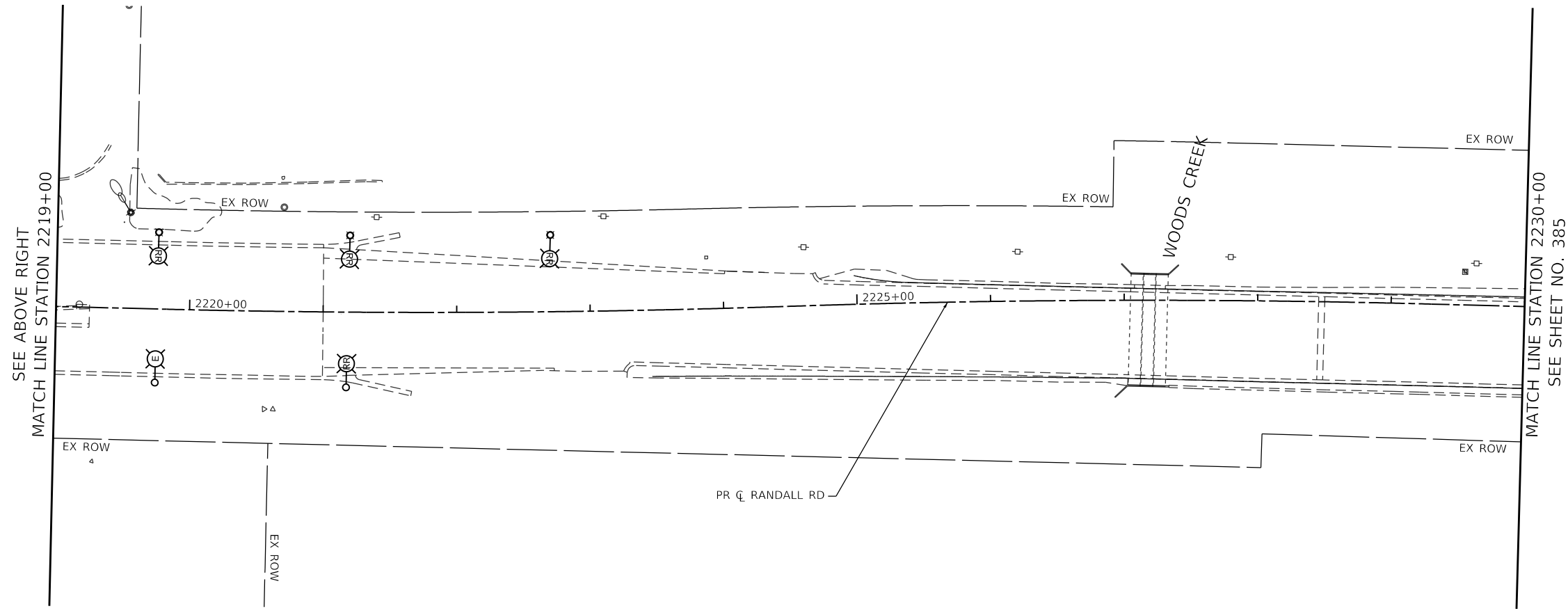
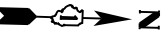
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

RANDALL ROAD PROPOSED WIRING DIAGRAM
 SCALE: 1" = 10' SHEET 7 OF 29 SHEETS STA. 2222+00 TO STA. 2289+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	383
			CONTRACT NO. 61J93	
ILLINOIS FED. AID PROJECT				



MATCH LINE STATION 2219+00
SEE BELOW LEFT



SEE ABOVE RIGHT
MATCH LINE STATION 2219+00

MATCH LINE STATION 2230+00
SEE SHEET NO. 385

NOTES:

1. SEE SHEET NO. 377 FOR LEGEND AND GENERAL NOTES.
2. SEE TRAFFIC SIGNAL PLANS (SHEETS 334 TO 374) FOR TEMPORARY TRAFFIC SIGNAL LOCATIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
4. THE LOCATION OF THE TEMPORARY WOOD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
5. TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE EXISTING POLES ARE REMOVED.
6. TEMPORARY LIGHTING SHALL NOT BE REMOVED UNTIL THE NEXT STAGE OF TEMPORARY LIGHTING OR PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAMBERG, ILLINOIS 60173
(847) 605-9600

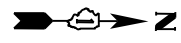
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PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

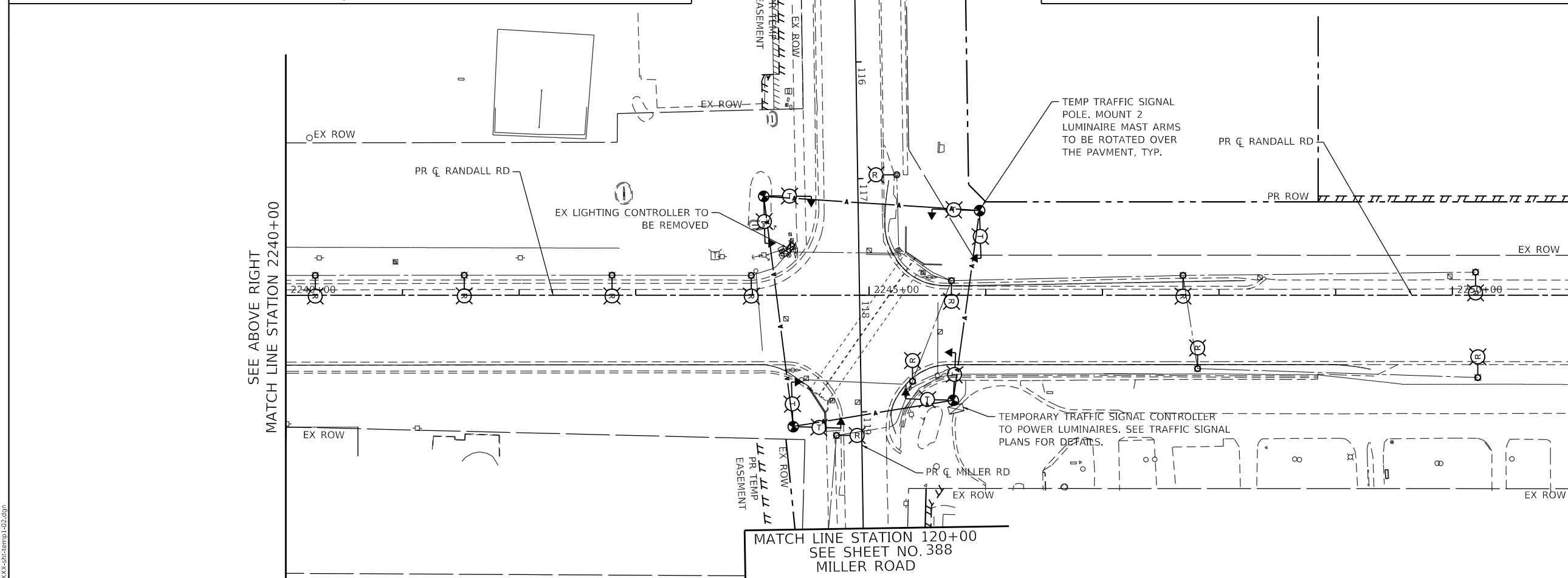
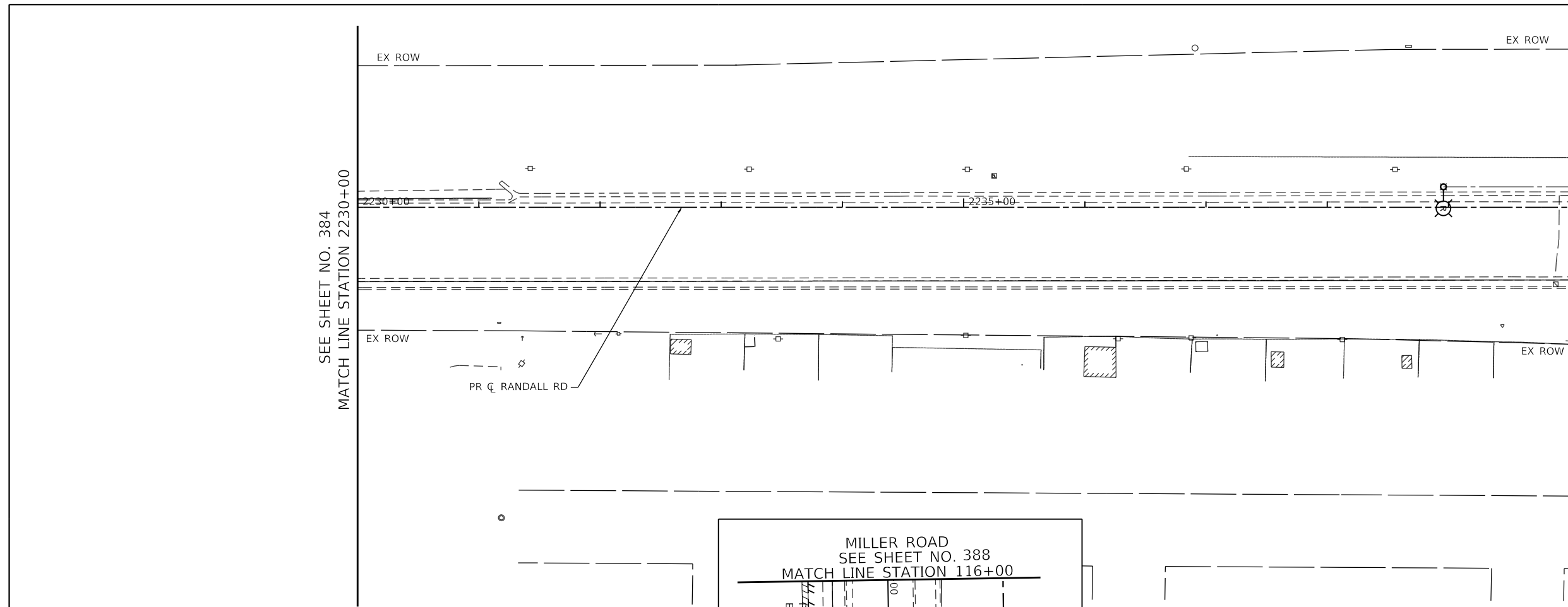
**RANDALL ROAD EXISTING LIGHTING REMOVAL & TEMPORARY LIGHTING
STAGE 1**
SCALE: 1" = 50' SHEET 8 OF 29 SHEETS STA. 1208+00 TO STA. 2230+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	384
			CONTRACT NO. 61J93	
ILLINOIS FED. AID PROJECT				



NOTES:

1. SEE SHEET NO. 377 FOR LEGEND AND GENERAL NOTES.
2. SEE TRAFFIC SIGNAL PLANS (SHEETS 334 TO 374) FOR TEMPORARY TRAFFIC SIGNAL LOCATIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
4. THE LOCATION OF THE TEMPORARY WOOD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
5. TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE EXISTING POLES ARE REMOVED.
6. TEMPORARY LIGHTING SHALL NOT BE REMOVED UNTIL THE NEXT STAGE OF TEMPORARY LIGHTING OR PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.



TRANSYSTEMS
 1475 EAST WOODFIELD ROAD, SUITE 600
 SCHAMBERG, ILLINOIS 60173
 (847) 605-9600

FILE NAME: D:\XXXXX-shr-temp1-02.dgn

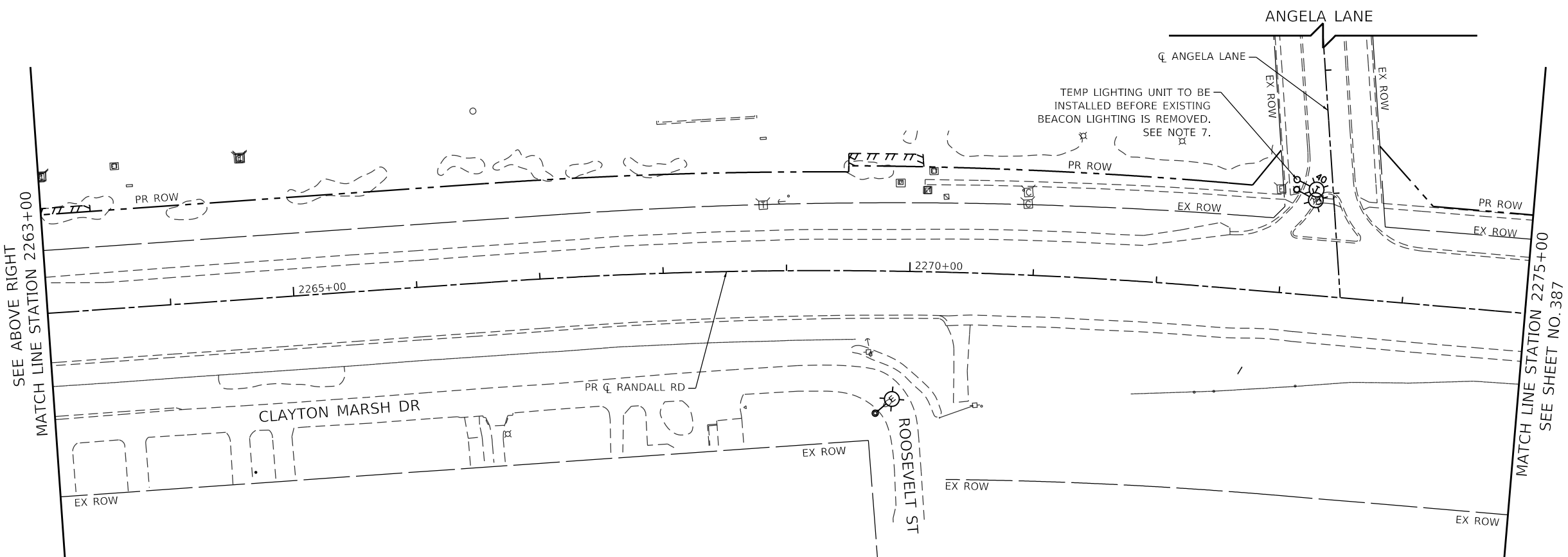
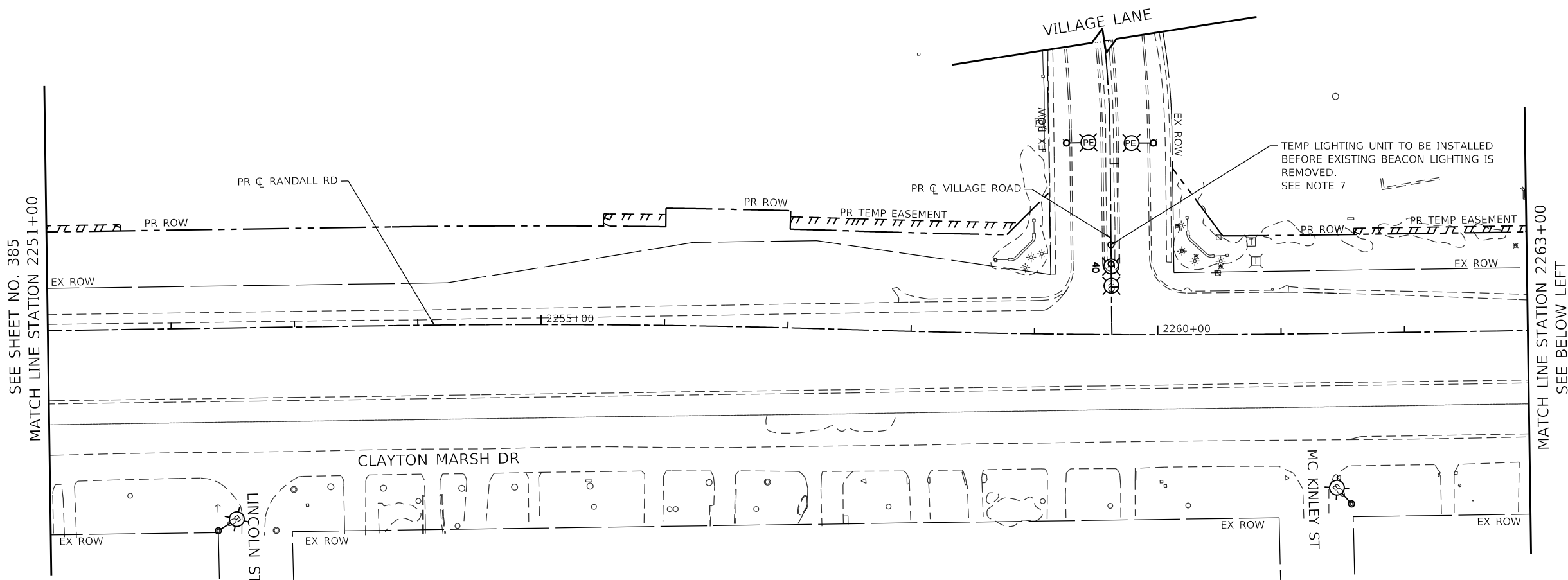
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PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RANDALL ROAD EXISTING REMOVAL & TEMPORARY LIGHTING
 STAGE 1**

SCALE: 1" = 50' SHEET 9 OF 29 SHEETS STA. 2230+00 TO STA. 2251+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	385
			CONTRACT NO. 61J93	
ILLINOIS FED. AID PROJECT				



- NOTES:**
- SEE SHEET NO. 377 FOR LEGEND AND GENERAL NOTES.
 - SEE TRAFFIC SIGNAL PLANS (SHEETS 334 TO 374) FOR TEMPORARY TRAFFIC SIGNAL LOCATIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
 - THE LOCATION OF THE TEMPORARY WOOD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
 - TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE EXISTING POLES ARE REMOVED.
 - TEMPORARY LIGHTING SHALL NOT BE REMOVED UNTIL THE NEXT STAGE OF TEMPORARY LIGHTING OR PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.
 - EXISTING LIGHT POLE TO BE RELOCATED OR REMOVED BY OTHERS. FINAL LOCATION TO BE DETERMINED BY THE CITY OF CRYSTAL LAKE AND COMED.

TRANSYSTEMS
 1475 EAST WOODFIELD ROAD, SUITE 600
 SCHAMBURG, ILLINOIS 60173
 (847) 605-9600

FILE NAME: D:\XXXXX-sht-temp\1-03.dgn

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PLOT SCALE = 100,0001' / in.	CHECKED - RCB	REVISED -
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

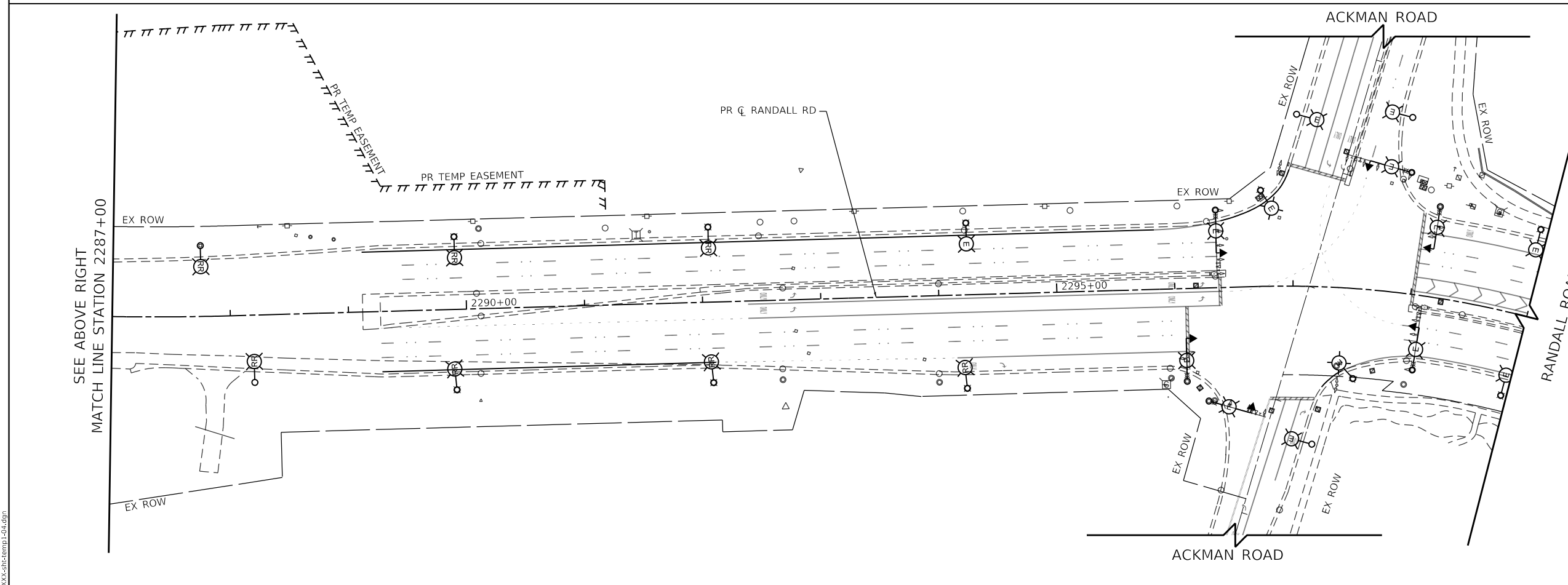
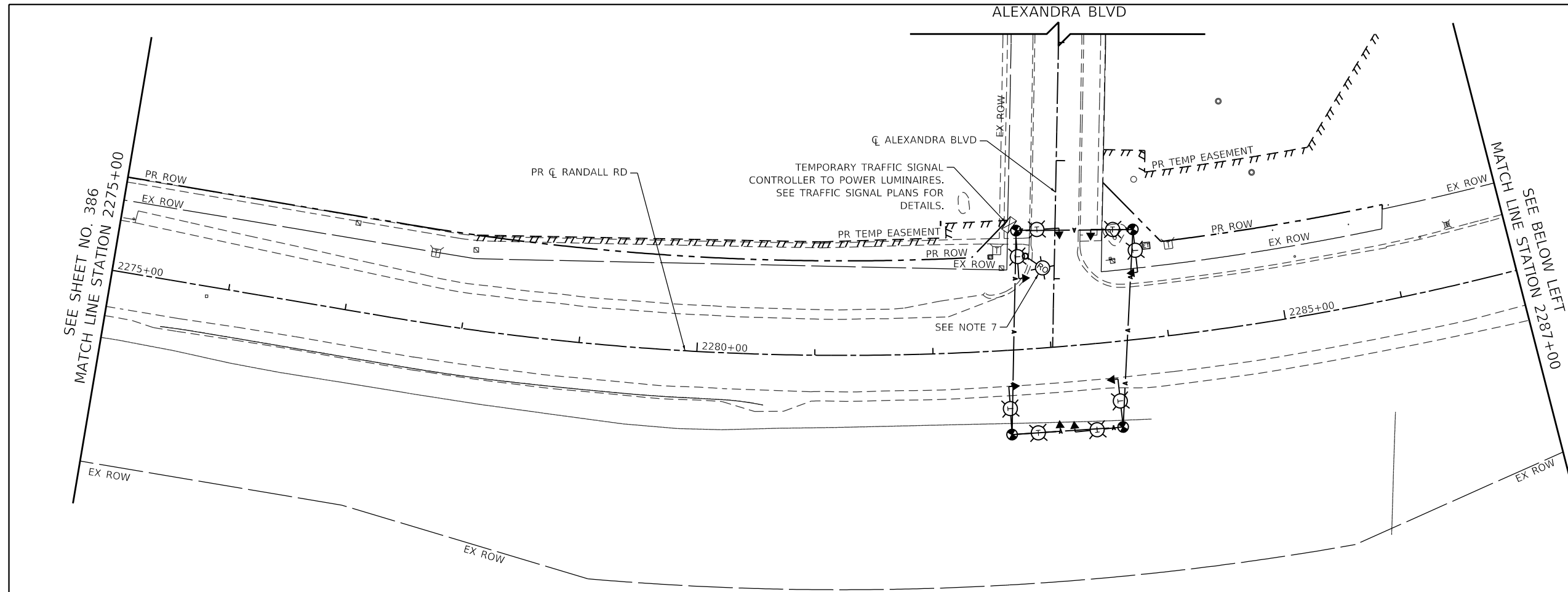
**RANDALL ROAD LIGHTING REMOVAL & TEMPORARY LIGHTING
 STAGE 1**

SCALE: 1" = 50' SHEET 10 OF 29 SHEETS STA. 2251+00 TO STA. 2275+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	386
CONTRACT NO. 61J93				
ILLINOIS FED. AID PROJECT				

NOTES:

1. SEE SHEET NO. 377 FOR LEGEND AND GENERAL NOTES.
2. SEE TRAFFIC SIGNAL PLANS (SHEETS 334 TO 374) FOR TEMPORARY TRAFFIC SIGNAL LOCATIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
4. THE LOCATION OF THE TEMPORARY WOOD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
5. TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE EXISTING POLES ARE REMOVED.
6. TEMPORARY LIGHTING SHALL NOT BE REMOVED UNTIL THE NEXT STAGE OF TEMPORARY LIGHTING OR PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.
7. EXISTING LIGHT POLE TO BE RELOCATED OR REMOVED BY OTHERS. FINAL LOCATION TO BE DETERMINED BY THE CITY OF CRYSTAL LAKE AND COMED.



TRANSYSTEMS
 1475 EAST WOODFIELD ROAD, SUITE 600
 SCHAMBURG, ILLINOIS 60173
 (847) 605-9600

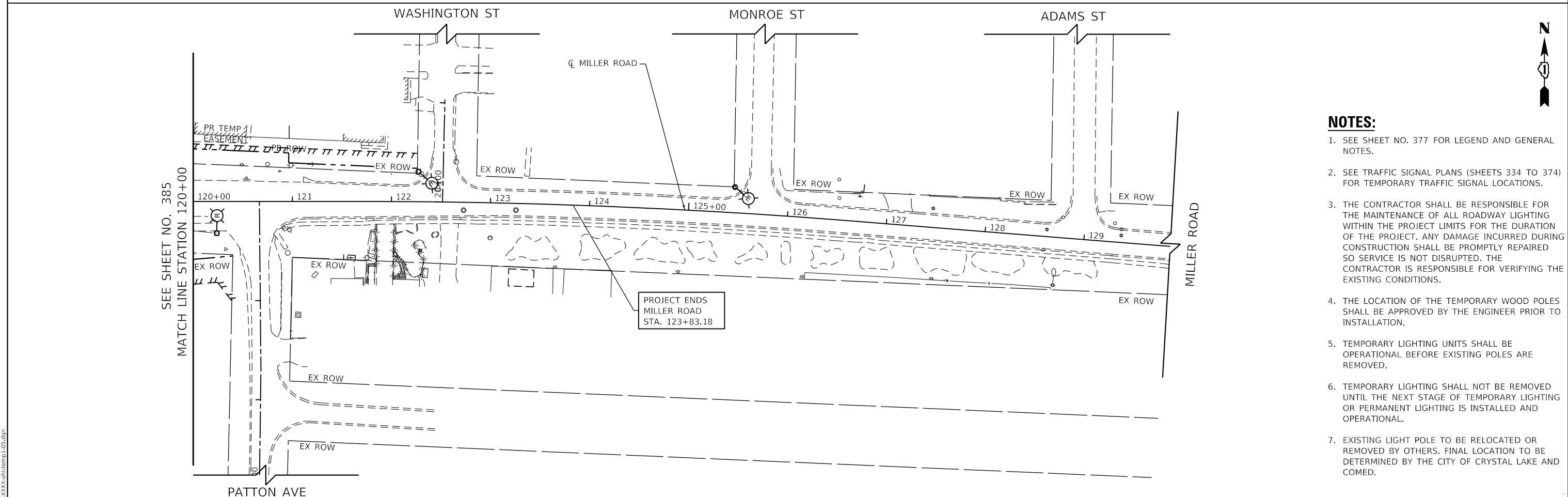
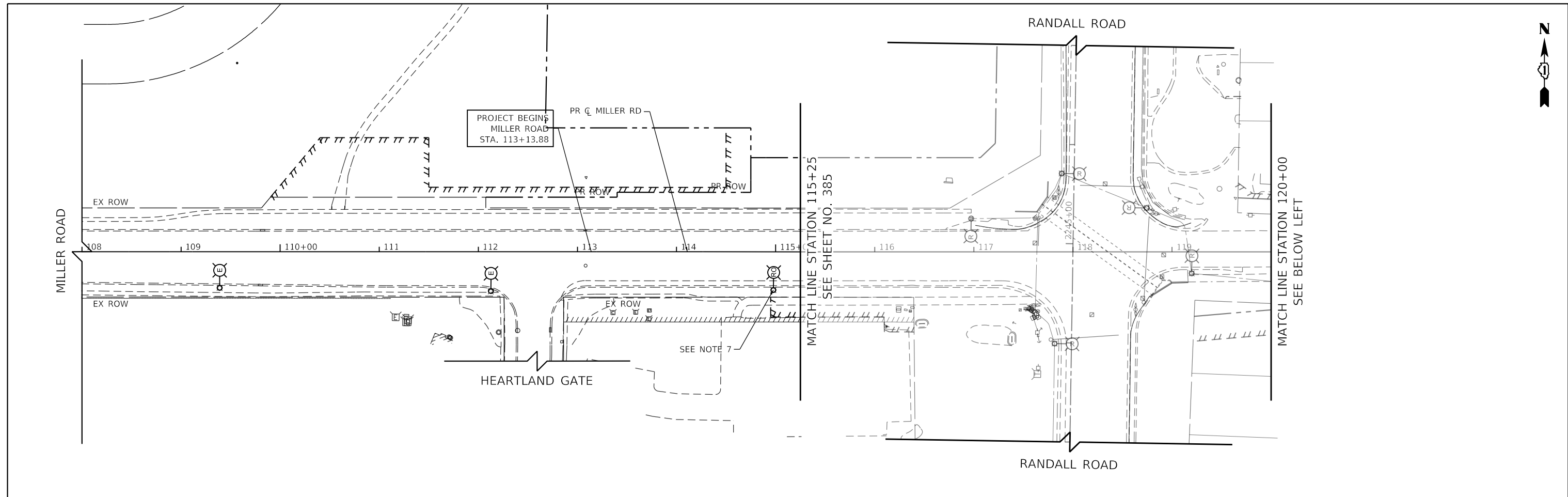
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PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

RANDALL ROAD LIGHTING REMOVAL & TEMPORARY LIGHTING	
STAGE 1	
SCALE: 1" = 50'	SHEET 11 OF 29 SHEETS STA. 2275+00 TO STA. 2299+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	387
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J93	



- NOTES:**
- SEE SHEET NO. 377 FOR LEGEND AND GENERAL NOTES.
 - SEE TRAFFIC SIGNAL PLANS (SHEETS 334 TO 374) FOR TEMPORARY TRAFFIC SIGNAL LOCATIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
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 - TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE EXISTING POLES ARE REMOVED.
 - TEMPORARY LIGHTING SHALL NOT BE REMOVED UNTIL THE NEXT STAGE OF TEMPORARY LIGHTING OR PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.
 - EXISTING LIGHT POLE TO BE RELOCATED OR REMOVED BY OTHERS. FINAL LOCATION TO BE DETERMINED BY THE CITY OF CRYSTAL LAKE AND COMED.

TRANSYSTEMS
 1475 EAST WOODFIELD ROAD, SUITE 600
 SCHAMBURG, ILLINOIS 60173
 (847) 605-9600

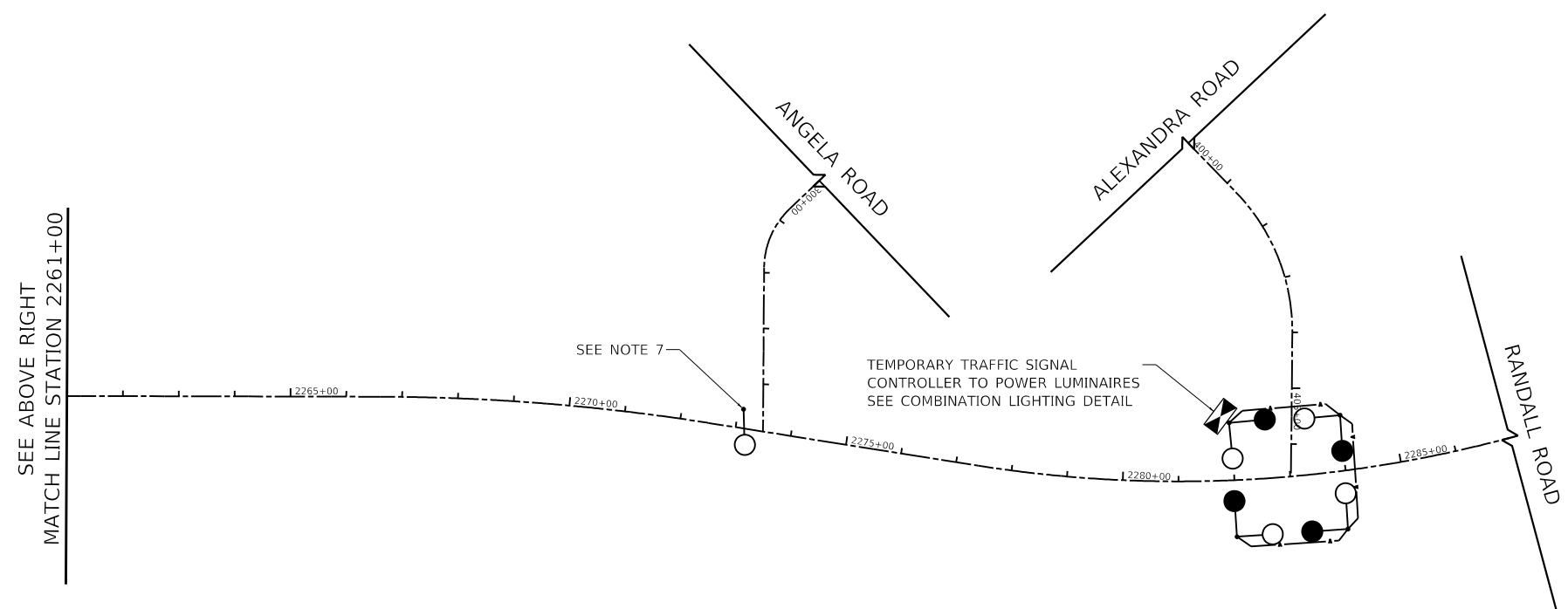
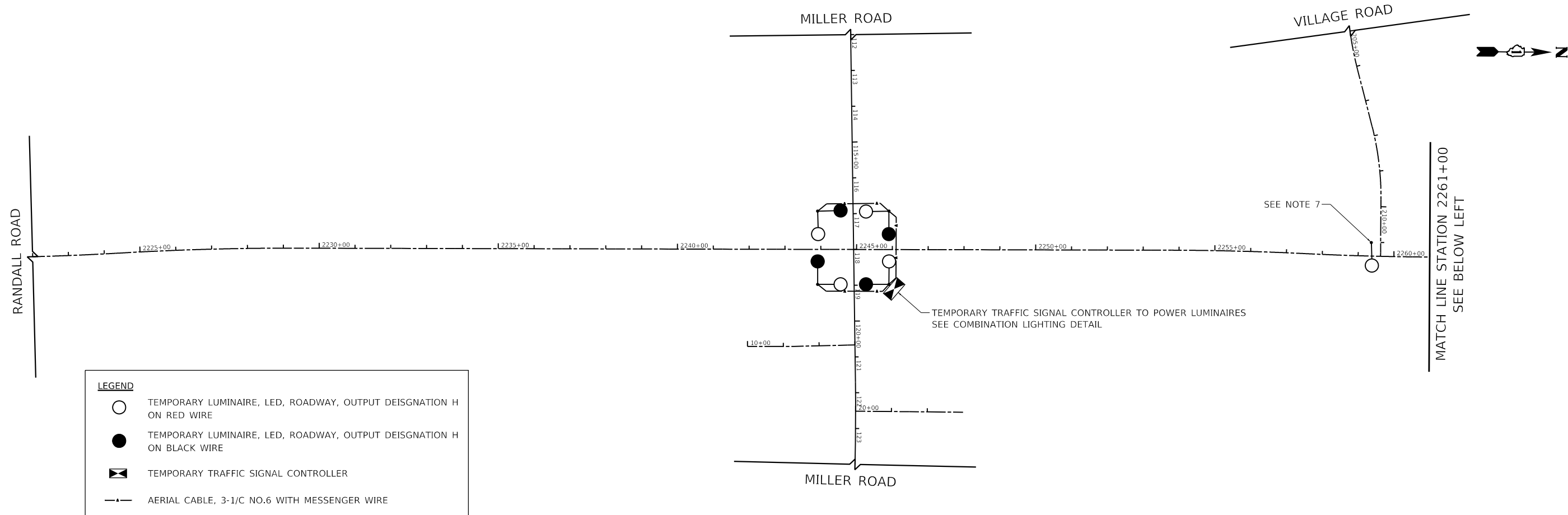
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PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

MILLER ROAD EXISTING LIGHTING REMOVAL & TEMPORARY LIGHTING			
STAGE 1			
SCALE: 1" = 50'	SHEET 12 OF 29 SHEETS	STA. 113+13.38 TO STA. 124+31.13	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	388
			CONTRACT NO. 61J93	
ILLINOIS FED. AID PROJECT				



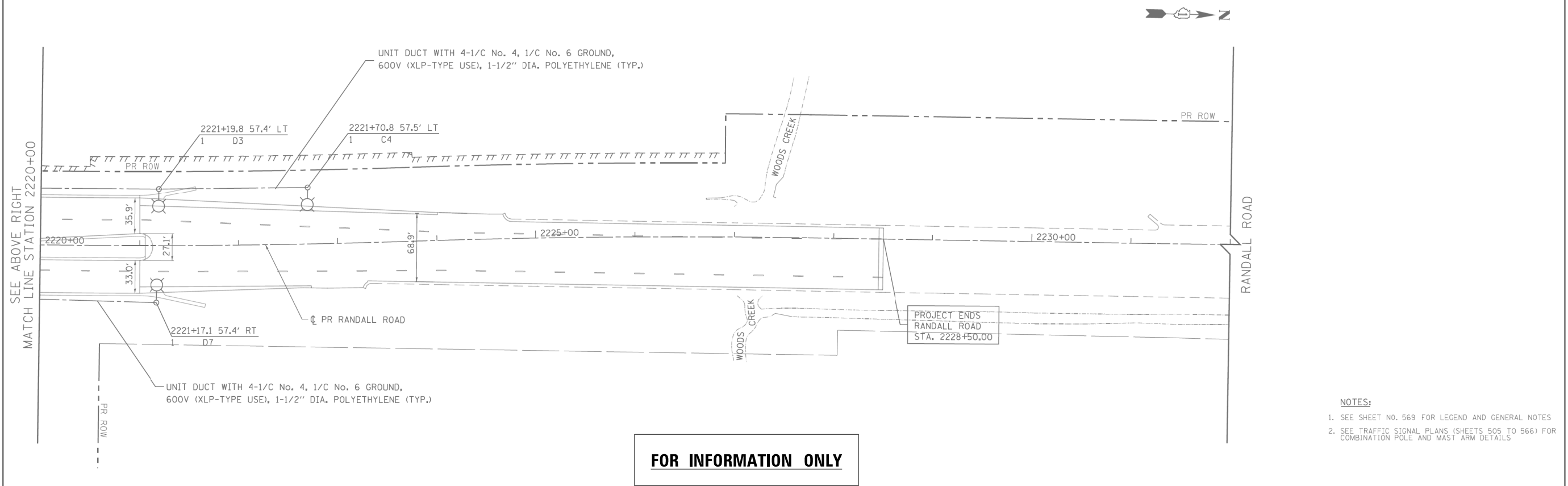
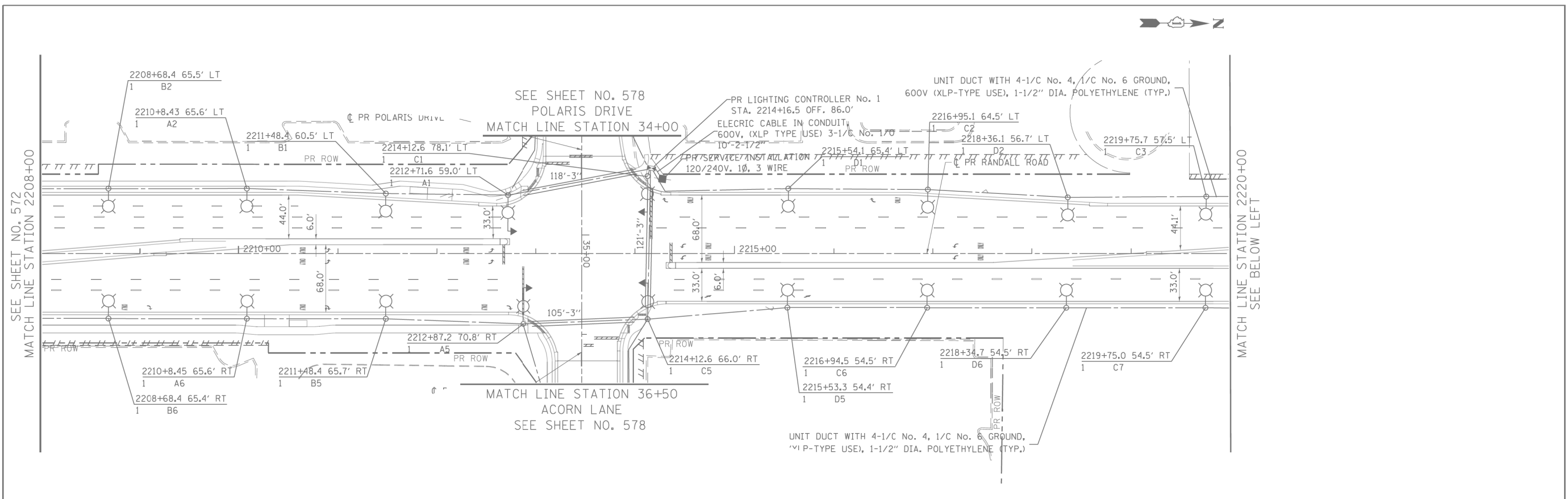
- NOTES:**
- SEE SHEET NO. 377 FOR LEGEND AND GENERAL NOTES.
 - SEE TRAFFIC SIGNAL PLANS (SHEETS 334 TO 374) FOR TEMPORARY TRAFFIC SIGNAL LOCATIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ROADWAY LIGHTING WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE PROMPTLY REPAIRED SO SERVICE IS NOT DISRUPTED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS.
 - THE LOCATION OF THE TEMPORARY WOOD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
 - TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL BEFORE EXISTING POLES ARE REMOVED.
 - TEMPORARY LIGHTING SHALL NOT BE REMOVED UNTIL THE NEXT STAGE OF TEMPORARY LIGHTING OR PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL.

USER NAME = btwegner	DESIGNED - BJH	REVISED -
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PLOT SCALE = 300.0002 ' / in.	CHECKED - RCB	REVISED -
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

RANDALL ROAD TEMPORARY WIRING DIAGRAM
 SCALE: 1" = 10' SHEET 13 OF 29 SHEETS STA. 2222+00 TO STA. 2289+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	389
CONTRACT NO. 61J93			ILLINOIS FED. AID PROJECT	

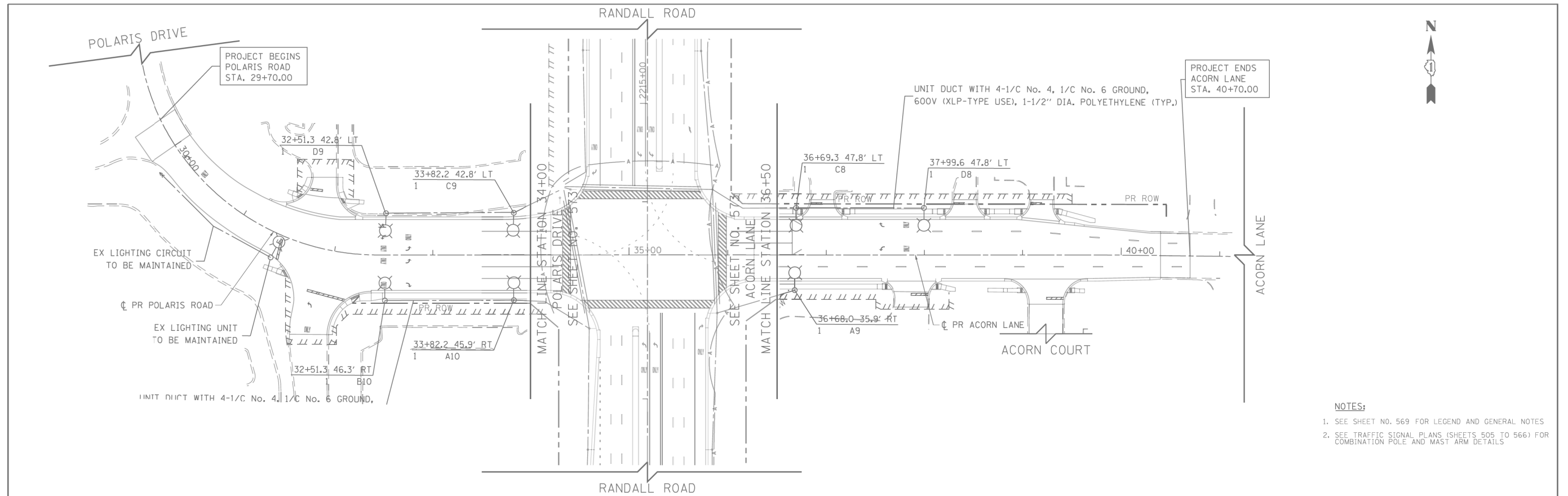


FOR INFORMATION ONLY

- NOTES:**
- SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 - SEE TRAFFIC SIGNAL PLANS (SHEETS 505 TO 566) FOR COMBINATION POLE AND MAST ARM DETAILS

USER NAME = mrcass	DESIGNED - TGL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RANDALL ROAD PROPOSED LIGHTING PLAN	F.A.P. RTE. 336	SECTION 06-00329-01-PW	COUNTY MCHENRY	TOTAL SHEETS 1751	SHEET NO. 573	
FILENAME = D:\XXXXX-sht-LTP-04.dgn	DRAWN - SPS	REVISED -			SCALE: 1" = 50'	SHEET 4 OF 11 SHEETS	STA. 2208+00 TO STA. 2232+00	CONTRACT NO. 61E53		
PLOT SCALE = 1/8" = 1' / in.	CHECKED - SRF	REVISED -			ILLINOIS FED. AID PROJECT					
PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -								

USER NAME = btwegner	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING AS-BUILT PLANS POLARIS DRIVE / ACORN LANE	F.A.P. RTE. 336	SECTION 06-00329-02-PW	COUNTY MCHENRY	TOTAL SHEETS 735	SHEET NO. 390	
FILENAME = D:\XXXXX-sht-light-as-built.dgn	DRAWN -	REVISED -			SCALE: NONE	SHEET 14 OF 29 SHEETS	STA. TO STA.	CONTRACT NO. 61J93		
PLOT SCALE = 2,000' / in.	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT					
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -								

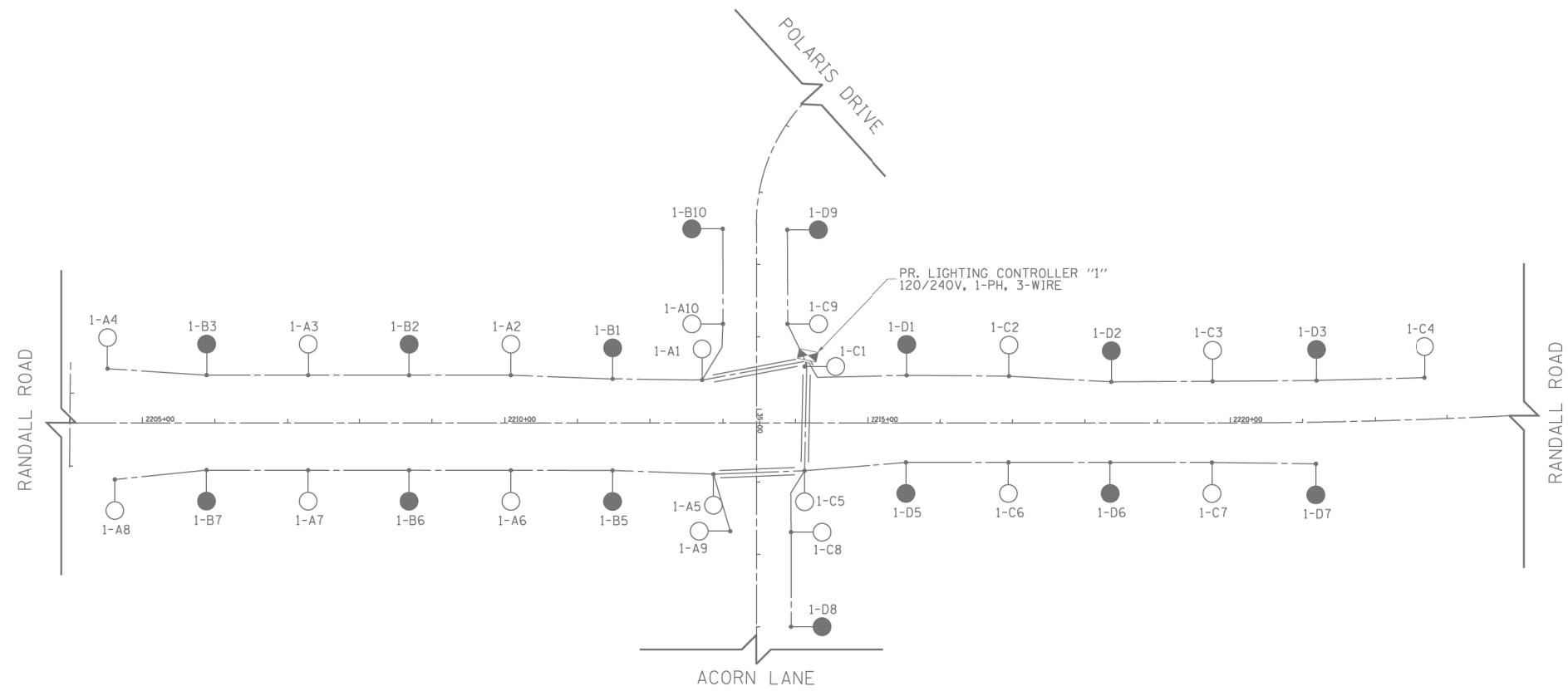


- NOTES:**
- SEE SHEET NO. 569 FOR LEGEND AND GENERAL NOTES
 - SEE TRAFFIC SIGNAL PLANS (SHEETS 505 TO 566) FOR COMBINATION POLE AND MAST ARM DETAILS

FOR INFORMATION ONLY

USER NAME = mrcass	DESIGNED - TGL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	POLARIS DRIVE /ACORN LANE PROPOSED LIGHTING PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -			SCALE: 1" = 50'	SHEET 9 OF 11 SHEETS	STA. 28+00 TO STA. 41+00			

USER NAME = btwegner	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING AS-BUILT PLANS POLARIS DRIVE / ACORN LANE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D:\XXXXX-sht-light-as-built.dgn	DRAWN -	REVISED -			336	06-00329-02-PW	MCHENRY	735	391	
PLOT SCALE = 2.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 61J93		ILLINOIS FED. AID PROJECT			
PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -			SCALE: NONE	SHEET 15 OF 29 SHEETS	STA. TO STA.			



LOAD TABULATION		
PROPOSED LIGHTING CONTROLLER 1		
CIRCUIT	AMPS	WATTS
A	11.88	2739
B	7.56	1743
C	9.72	2241
D	9.72	2241
TOTAL	38.88	8964

LEGEND	
	LED LUMINAIRE, HORIZ. MOUNT, 240V, ON RED WIRE
	LED LUMINAIRE, HORIZ. MOUNT, 240V, ON BLACK WIRE
	PROPOSED 120/240V LIGHTING CONTROLLER
	4-1/2 NO. 4 AND 1-1/2 NO. 6 GND, (UNLESS OTHERWISE NOTED)

FOR INFORMATION ONLY

USER NAME = mrcass	DESIGNED - TGL	REVISED -
FILENAME = D:\XXXXX-sht-light-as-built.dgn	DRAWN - SPS	REVISED -
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PLOT DATE = 4/25/2018	DATE - 4-26-2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RANDALL ROAD PROPOSED LIGHTING WIRING DIAGRAM
POLARIS DRIVE /ACORN CONTROLLER**

SCALE: 1" = 100' SHEET 3 OF 3 SHEETS STA. 2204+50 TO STA. 2223+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-01-PW	MCHENRY	1751	583
				CONTRACT NO. 61E53
ILLINOIS FED. AID PROJECT				

USER NAME = btwegner	DESIGNED -	REVISED -
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PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

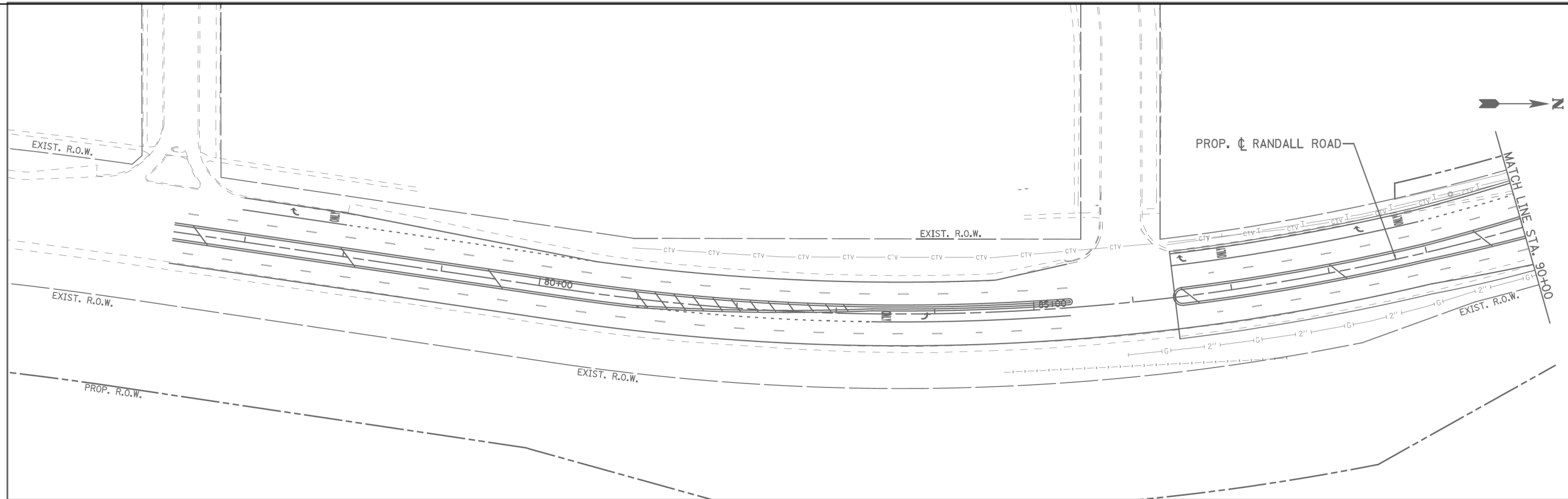
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING AS-BUILT PLANS
POLARIS DRIVE / ACORN LANE**

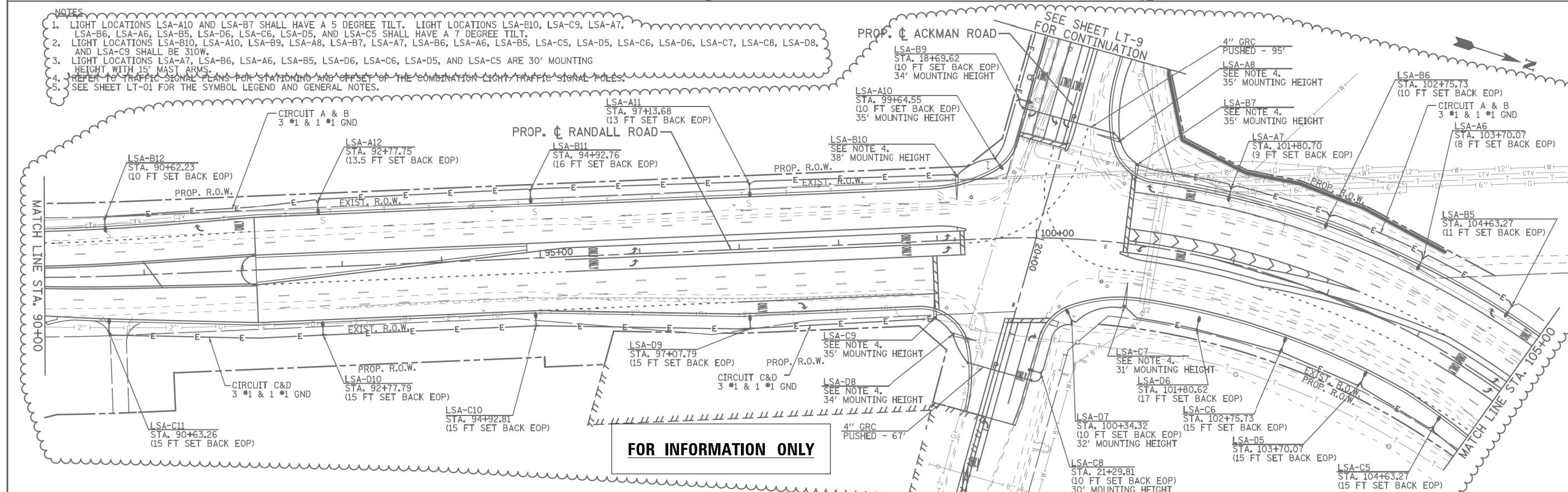
SCALE: NONE SHEET 16 OF 29 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	392
				CONTRACT NO. 61J93
ILLINOIS FED. AID PROJECT				





- NOTES**
1. LIGHT LOCATIONS LSA-A10 AND LSA-B7 SHALL HAVE A 5 DEGREE TILT. LIGHT LOCATIONS LSA-B10, LSA-C9, LSA-A7, LSA-B6, LSA-A6, LSA-B5, LSA-D6, LSA-C6, LSA-D5, AND LSA-C5 SHALL HAVE A 7 DEGREE TILT.
 2. LIGHT LOCATIONS LSA-B10, LSA-A10, LSA-B9, LSA-A8, LSA-B7, LSA-A7, LSA-B6, LSA-A6, LSA-B5, LSA-C5, LSA-D5, LSA-C6, LSA-D6, LSA-C7, LSA-C8, LSA-D8, AND LSA-C9 SHALL BE 310W.
 3. LIGHT LOCATIONS LSA-A7, LSA-B6, LSA-A6, LSA-B5, LSA-D6, LSA-C6, LSA-D5, AND LSA-C5 ARE 30' MOUNTING HEIGHT WITH 15' MAST ARMS.
 4. REFER TO TRAFFIC SIGNAL PLANS FOR STATIONING AND OFFSET OF THE COMBINATION LIGHT TRAFFIC SIGNAL POLES.
 5. SEE SHEET LT-01 FOR THE SYMBOL LEGEND AND GENERAL NOTES.



	USER NAME = Seed(Rdwy.Lisle)	DESIGNED - CMH	REVISED -		MCHENRY COUNTY DIVISION OF TRANSPORTATION	RAKOW ROAD FROM ACKMAN ROAD TO ILLINOIS ROUTE 31 RAKOW ROAD PROPOSED LIGHTING PLAN	F.A.P. RTE. 0336	SECTION 05-00308-00-WR	COUNTY MCHENRY	TOTAL SHEETS 606	SHEET NO. 377
	PLOT CONFIG = PDF(Grey_Small).plt	DRAWN - MJP	REVISED -				CONTRACT NO. 63398				
	PLOT SCALE = 1:100	CHECKED - DH	REVISED -				ILLINOIS FED. AID PROJECT				
	PLOT DATE = 5/17/2011	DATE - 8/2/2010	REVISED -	SCALE: 1"=50'	SHEET NO. LT 3 OF 28	STA. PROJ. STAR TO STA. 105+00					

TRANSYSTEMS
 1475 EAST WOODFIELD ROAD, SUITE 600
 SCHAMBERG, ILLINOIS 60173
 (847) 605-9600

FILE NAME: D:\XXXXX-sht-light-as-built.dgn

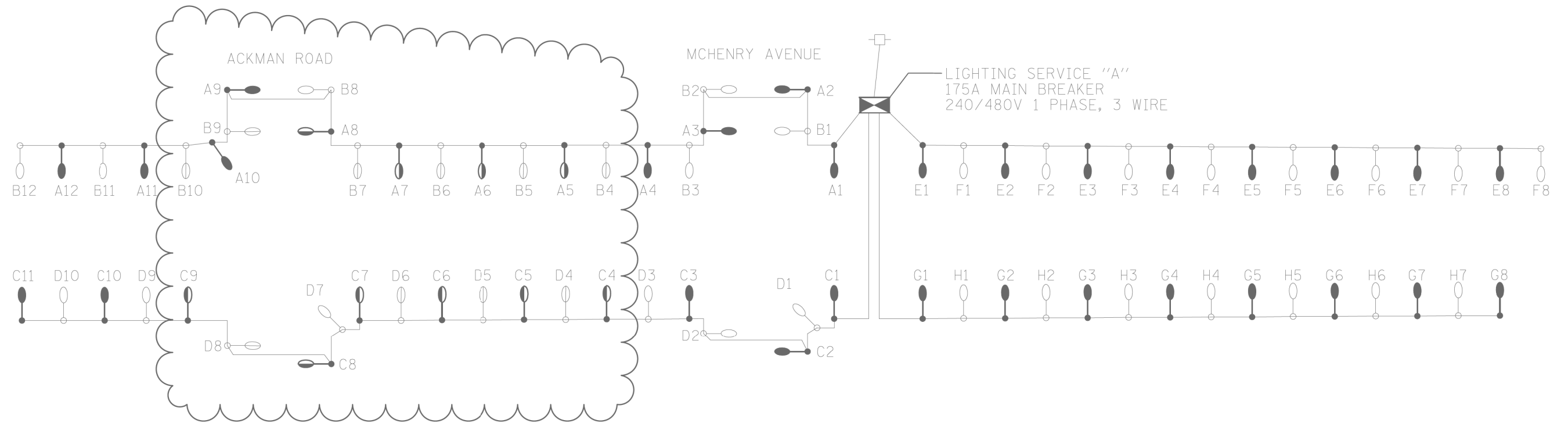
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PLOT DATE = 6/11/2024	DATE - 6/14/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING LED RETROFIT PLANS
ACKMAN ROAD**

SCALE: NONE SHEET 17 OF 29 SHEETS STA. TO STA.

F.A.P. RTE. 336	SECTION 06-00329-02-PW	COUNTY MCHENRY	TOTAL SHEETS 735	SHEET NO. 393
CONTRACT NO. 61J93				
ILLINOIS FED. AID PROJECT				



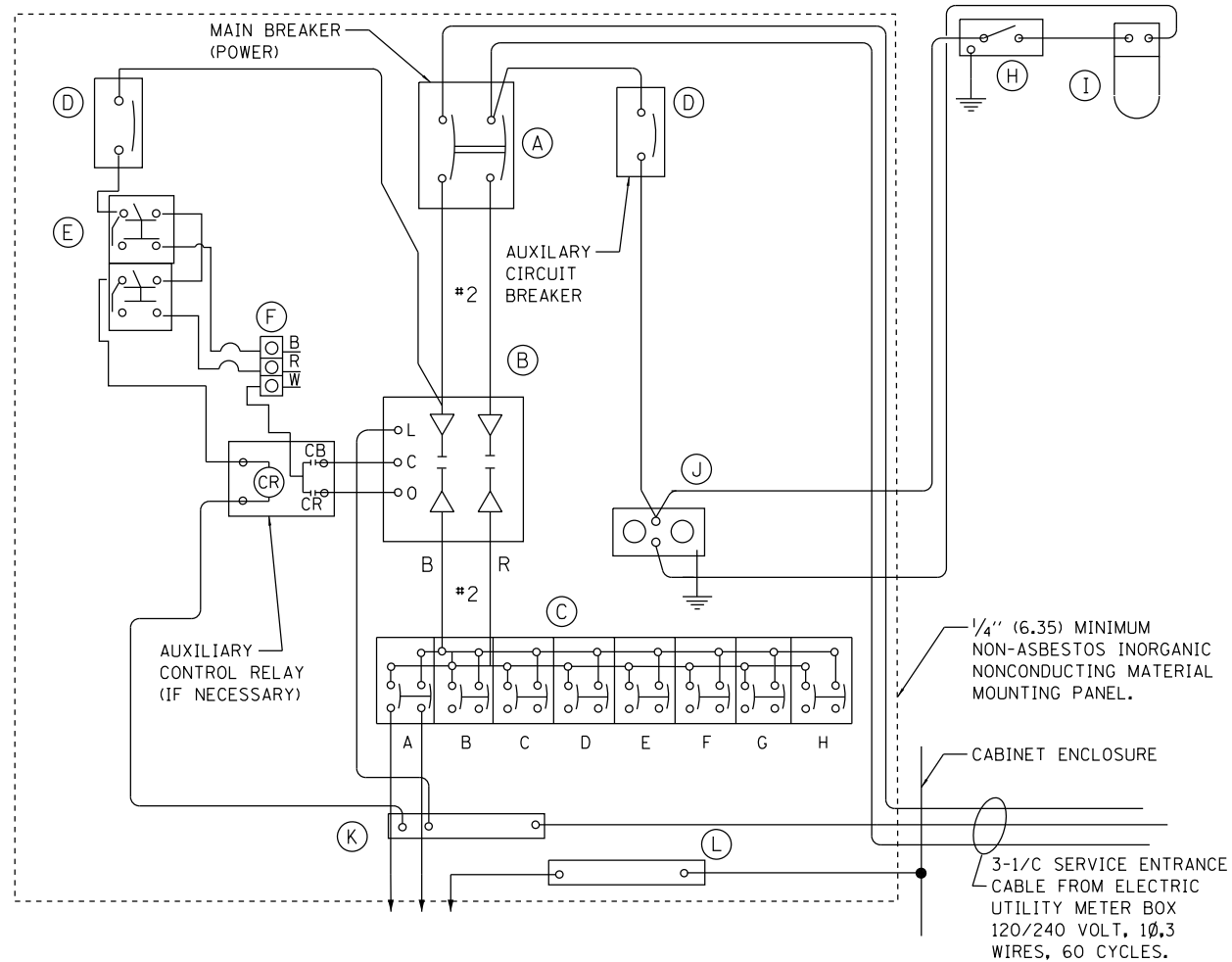
CKT	CURRENT	WATT	CKT	CURRENT	WATT
A	22.8A	4440	B	22.2A	4260
C	20.2A	3860	D	18.8A	3640
E	16.0A	3200	F	16.0A	3200
G	16.0A	3200	H	14.0A	2800
I	SPARE	0	J	SPARE	0
	75.0A	14,700	CKT	71.0A	13,900

● LIGHT POLE, 400W
 ○ LIGHT POLE, 310W

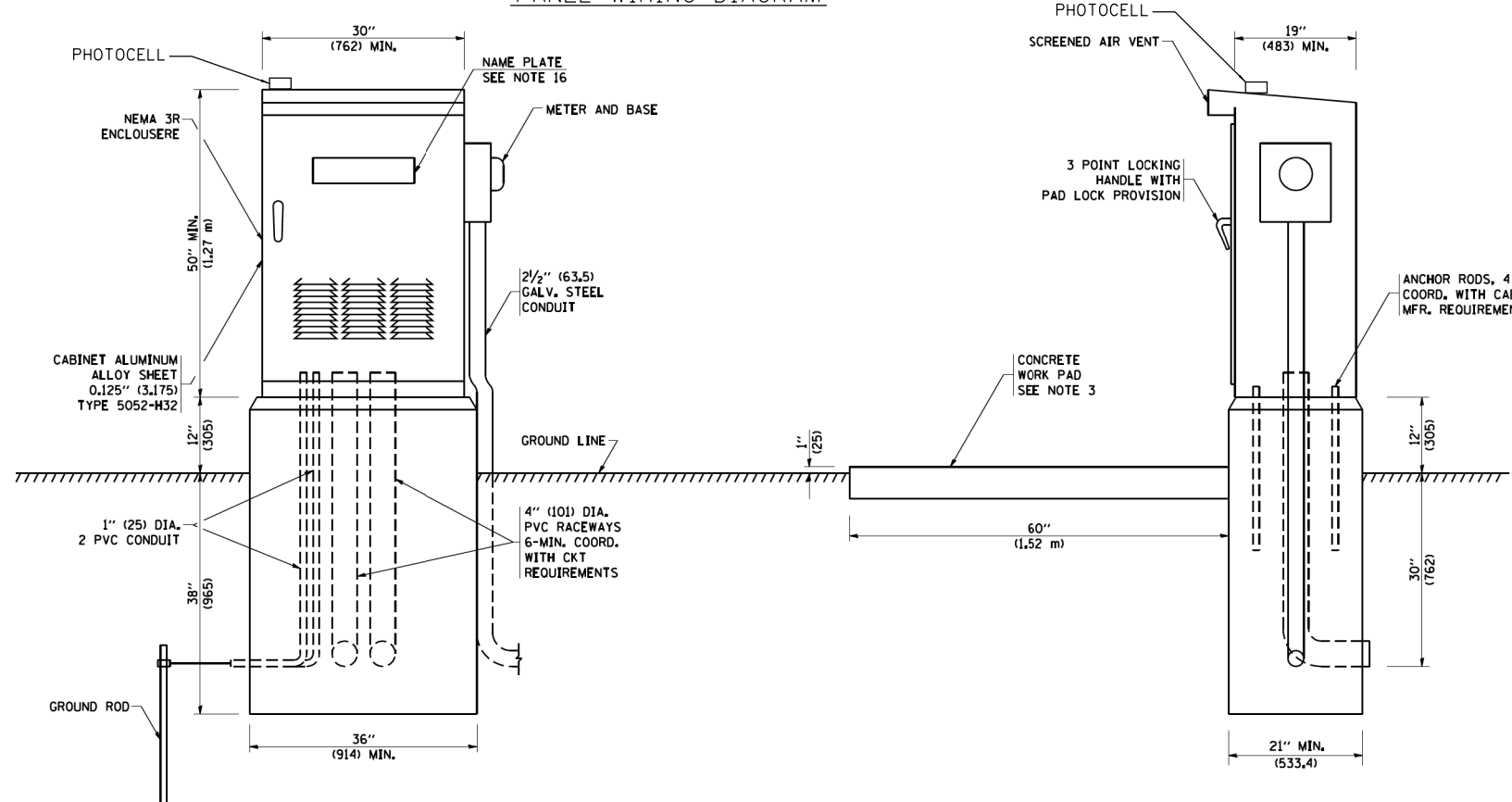
FOR INFORMATION ONLY

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	G:\MCDOT\20950\001\Drawings\RDWY\shch\5.Lt.Controller_A.dgn		SCALE: NONE SHEET NO. LT 14 OF 28 STA. TO STA.			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING LED RETROFIT PLANS ACKMAN ROAD	F.A.P. RTE. 336 SECTION 06-00329-02-PW COUNTY MCHENRY TOTAL SHEETS 735 SHEET NO. 394 CONTRACT NO. 61J93
		SCALE: NONE SHEET 18 OF 29 SHEETS STA. TO STA.



PANEL WIRING DIAGRAM



PANEL EQUIPMENT

BILL OF MATERIAL		
ITEM	QUANTITY	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 200 AMP. FRAME, 200 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 240 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 120 VOLT.
C	8	CIRCUIT BREAKERS, 2 POLE, 100AMP. FRAME, 20 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 240 V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 120 V., 200 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 120 V.
E	1	H-O-A TOGGLE SWITCHES
F	1	PHOTOCELL
G	-	-
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN,
I	1	LED LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 10 WATT, 120 V. LAMP.
J	1	20 A., 120 V., DUPLEX RECEPTACLE, GFCI.
K	1	COPPER NEUTRAL BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
L	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS

NOTES:

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
- IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL. LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (18,288 m) x 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- CABINETS SHALL BE NATURAL FINISH (NO PAINT) AS SPECIFIED.
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "MCHENRY COUNTY LIGHTING CONTROLS".
- CABINET DOORS SHALL BE EQUIPPED WITH CORBIN LOCKS.

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAMBERG, ILLINOIS 60173
(847) 605-9600

FILE NAME: D:\XXXX\chc-424\ndr\cfd.dgn

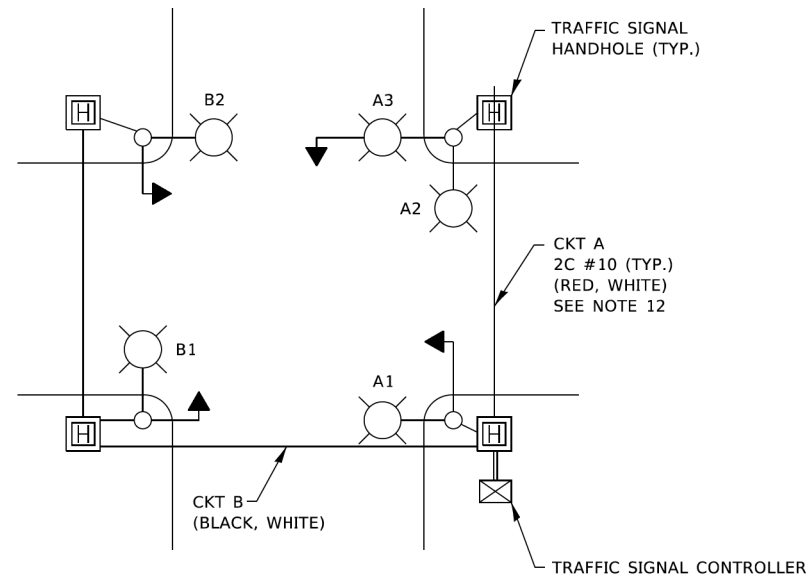
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

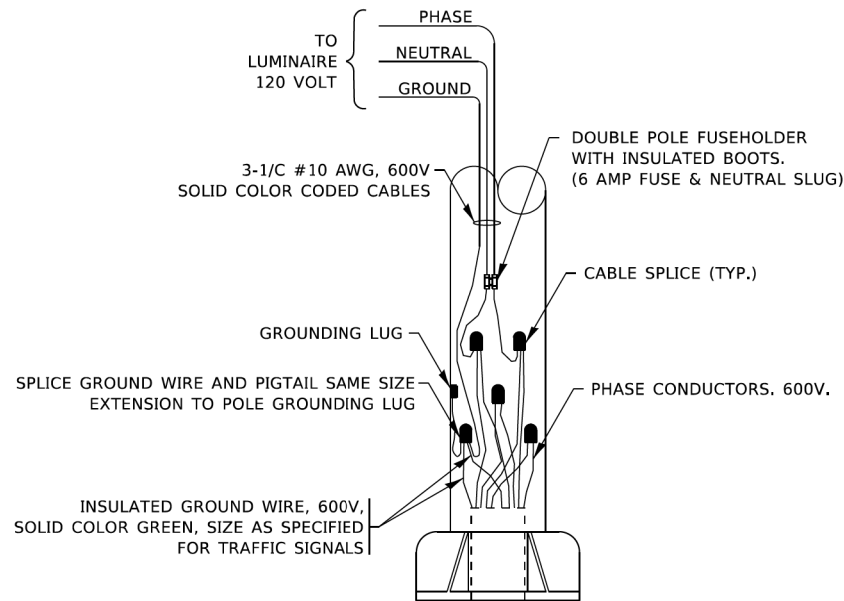
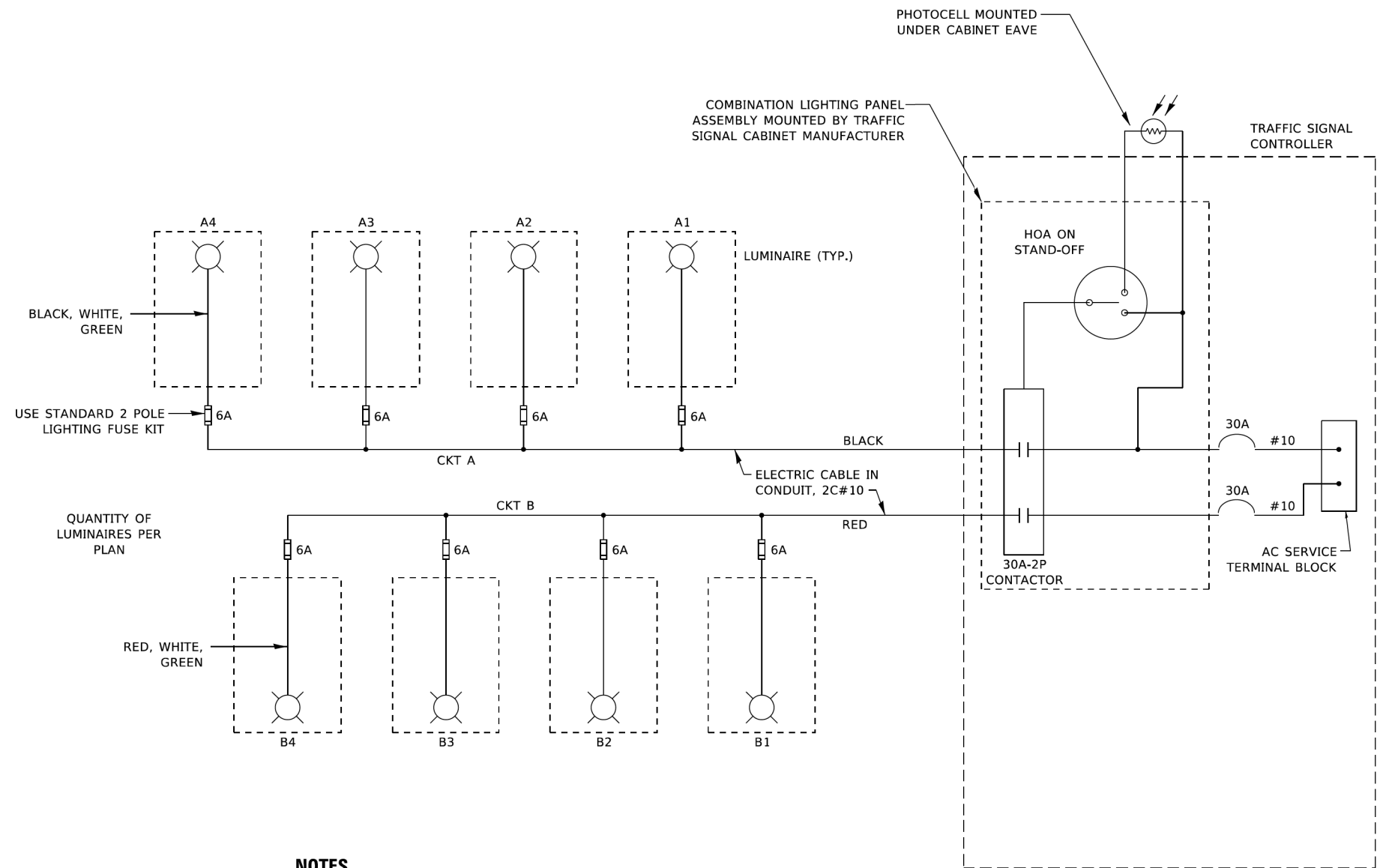
LIGHTING CONTROLLER - SINGLE DOOR
120/240V, 1-PHASE

SCALE: NONE SHEET 19 OF 29 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	395
CONTRACT NO. 61J93				
ILLINOIS		FED. AID PROJECT		



TYPICAL LIGHTING CIRCUIT
(NOT TO SCALE)



COMBINATION POLE WIRING DETAIL
(NOT TO SCALE)

NOTES

1. 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
2. TWO #10 (XLP-TYPE USE) CABLES TO BE USED FOR LIGHTING CIRCUITS.
3. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
4. ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
5. FOR LIGHTING CIRCUITS, CONNECT TWO CIRCUIT BREAKERS TO AC SERVICE TERMINAL BLOCK.
6. ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
7. THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
8. LIGHTING CONNECTED TO UPS BYPASS CIRCUIT.
9. COMBINATION LIGHTING MUST BE INSTALLED PRIOR TO SIGNAL TURN ON.
10. LUMINAIRE VOLTAGE SHALL BE 120V
11. POLE WIRING & FUSE KITS ARE INCLUDED IN THE LUMINAIRE PAY ITEM.
12. THE UNDERGROUND EQUIPMENT GROUND WIRE IS SHOWN IN THE TRAFFIC SIGNAL PLANS AND IS INCLUDED IN THE SIGNAL PLANS. IT IS SHARED GROUND BETWEEN SIGNALS AND LIGHTING.

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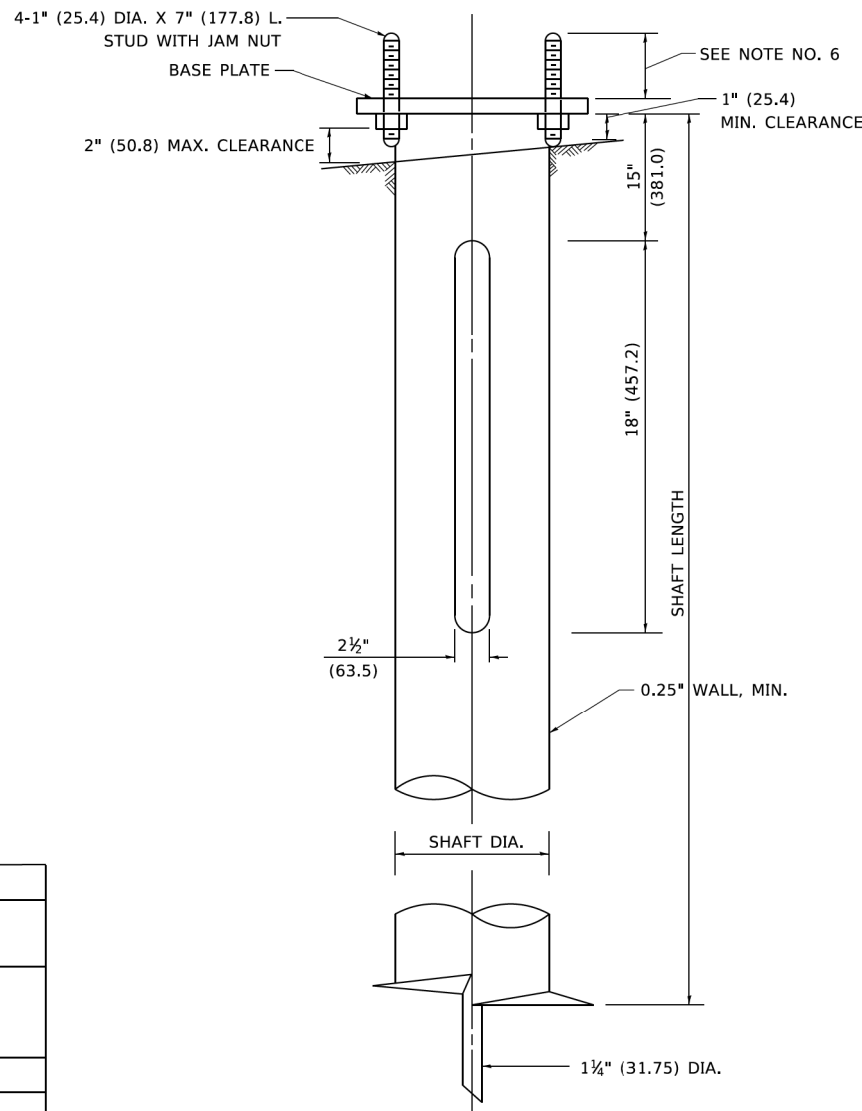
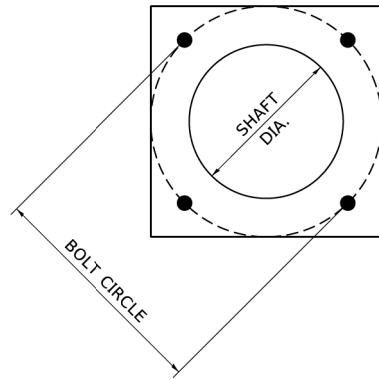
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PLOT DATE = 5/5/2022	DATE - 08/18/2014	REVISED - T.G. 5/05/2022

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC

SCALE: NONE SHEET 21 OF 29 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	397
BE-240		CONTRACT NO. 61J93		
ILLINOIS FED. AID PROJECT				



NOTES

1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1#4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS ($\pm 1^\circ$) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE ($\pm 2^\circ$).
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	11 1/2"	8 3/8"	6 FT.	12"x12"x1"
31 FT.-35 FT.	11 1/2"	8 3/8"	6 FT.	12"x12"x1"
36 FT.-40FT.	15"	8 3/8"	6 FT.	15"x15"x1 1/4"
41 FT.-45 FT.	15"	8 3/8"	6 FT.	15"x15"x1 1/4"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1 1/4"

METAL HELIX FOUNDATION MATERIALS

ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

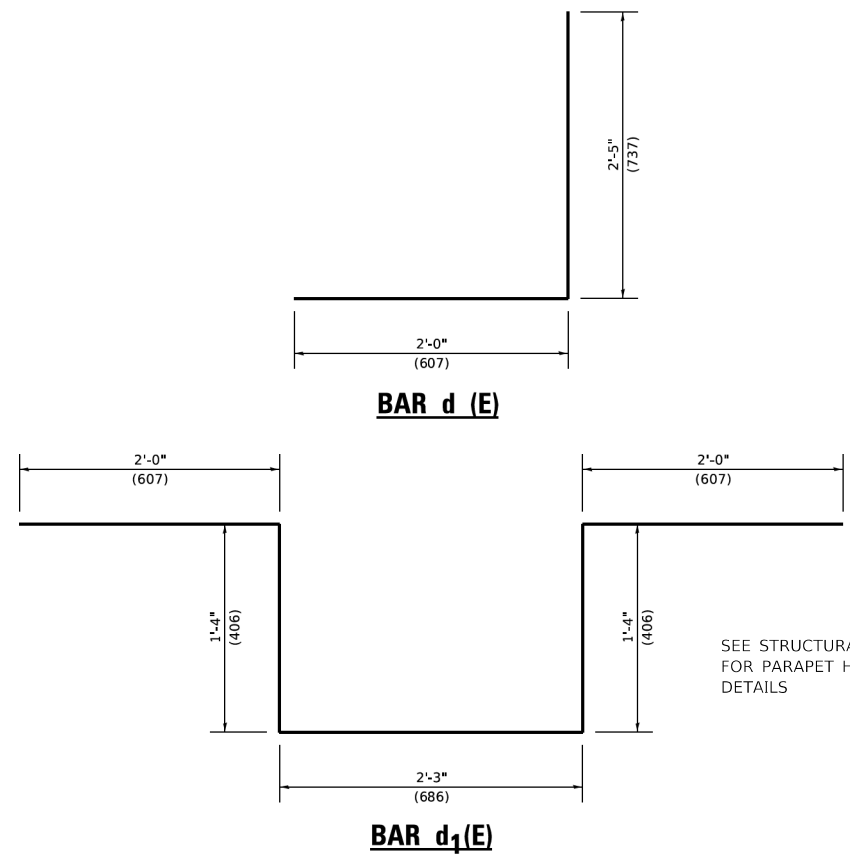
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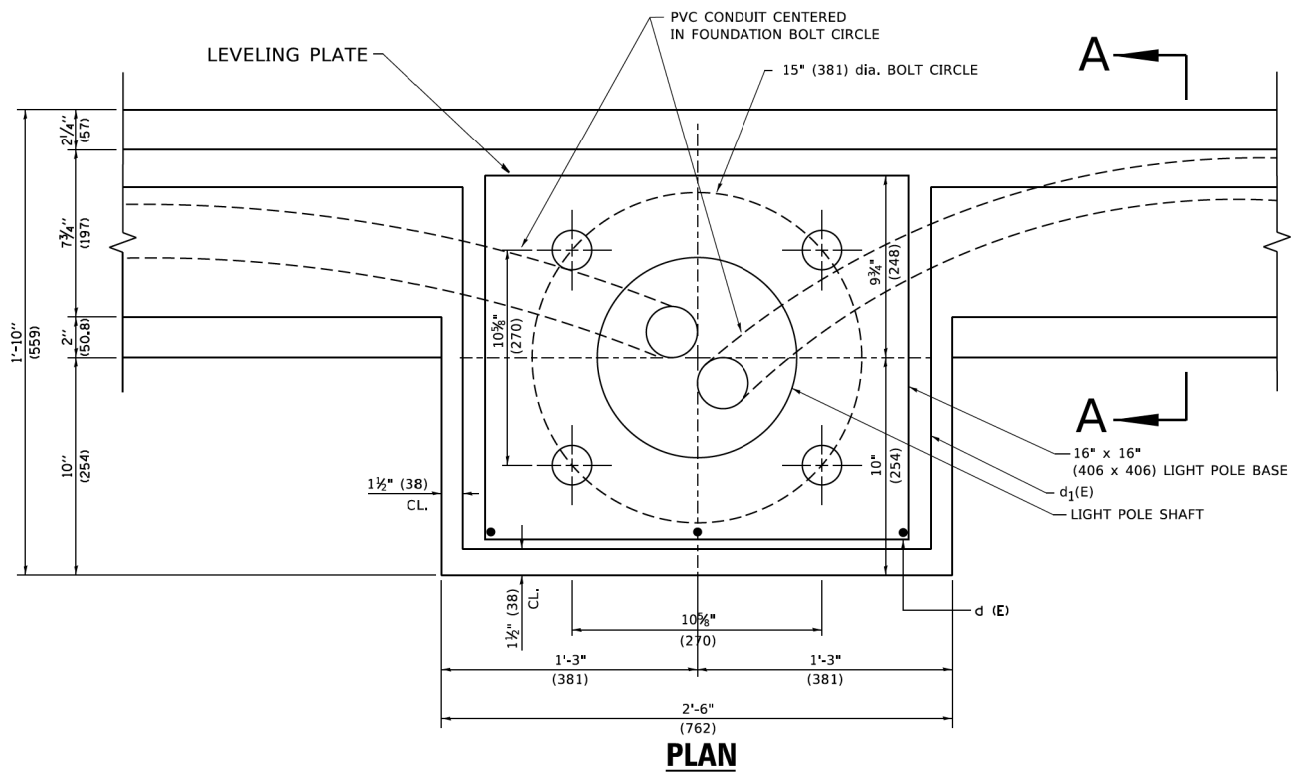
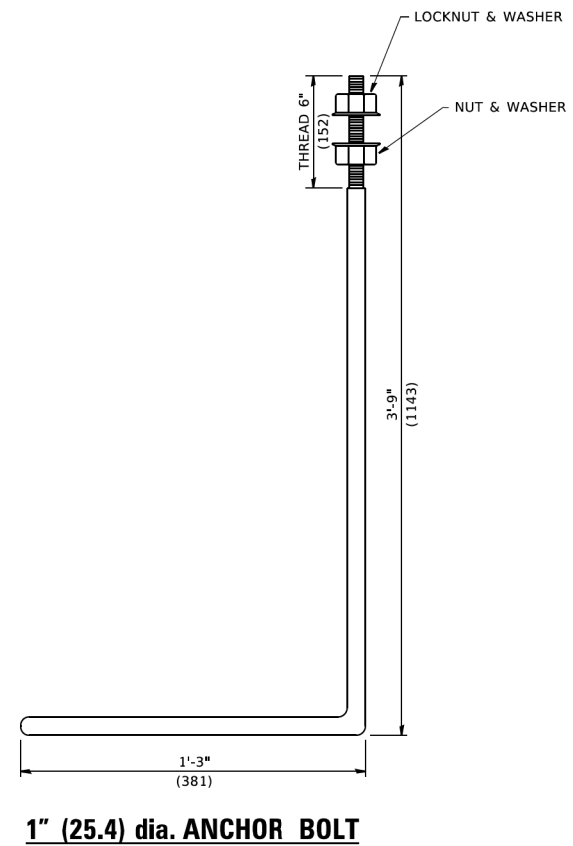
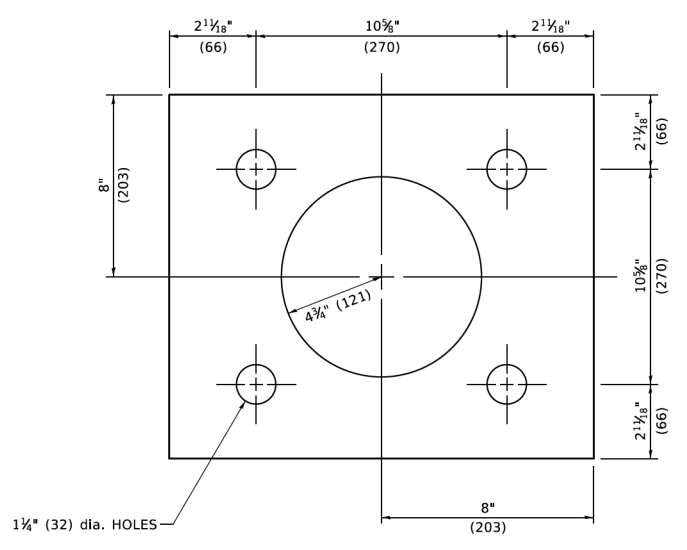
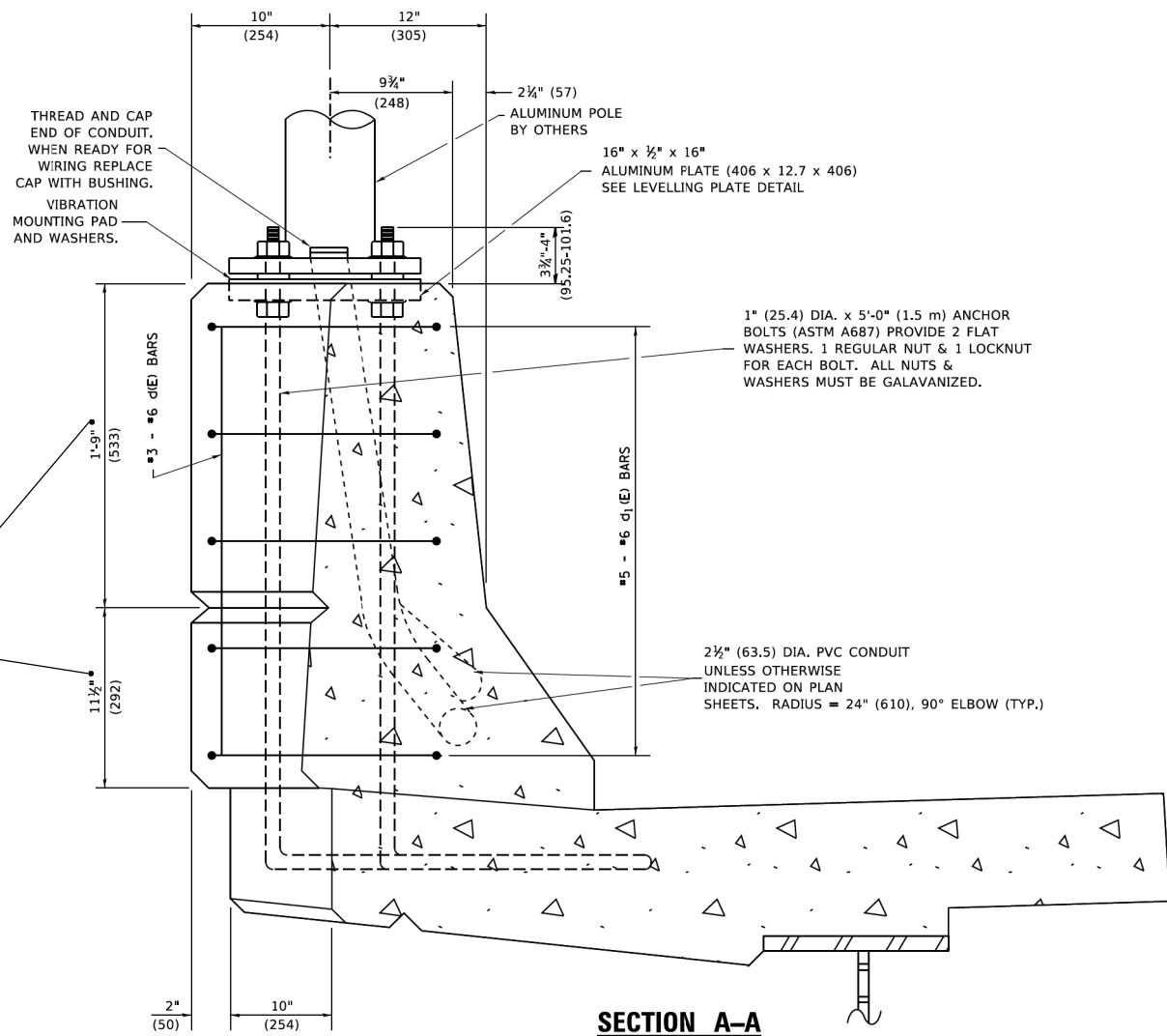
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LIGHT POLE FOUNDATION, METAL	
SCALE: NONE	SHEET 22 OF 29 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	398
BE-305		CONTRACT NO. 61J93		
ILLINOIS FED. AID PROJECT				



SEE STRUCTURAL PLANS FOR PARAPET HEIGHT DETAILS



- NOTES**
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 2. LEVEL LIGHT POLE PLATES, USING THE FLANGE NUTS, PRIOR TO POURING THE PARAPET WALL. THE TOP OF THE PLATE SHALL BE AT THE SAME ELEVATION AS THE FINISHED CONCRETE PARAPET.
 3. THE COST OF ANCHOR BOLTS, CONDUIT, LEVELLING PLATE AND FOUNDATION IS INCLUDED IN THE COST OF THE BRIDGE STRUCTURE.

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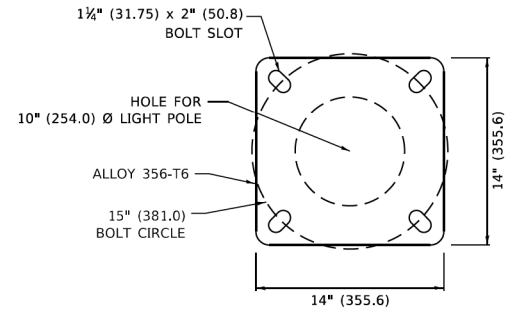
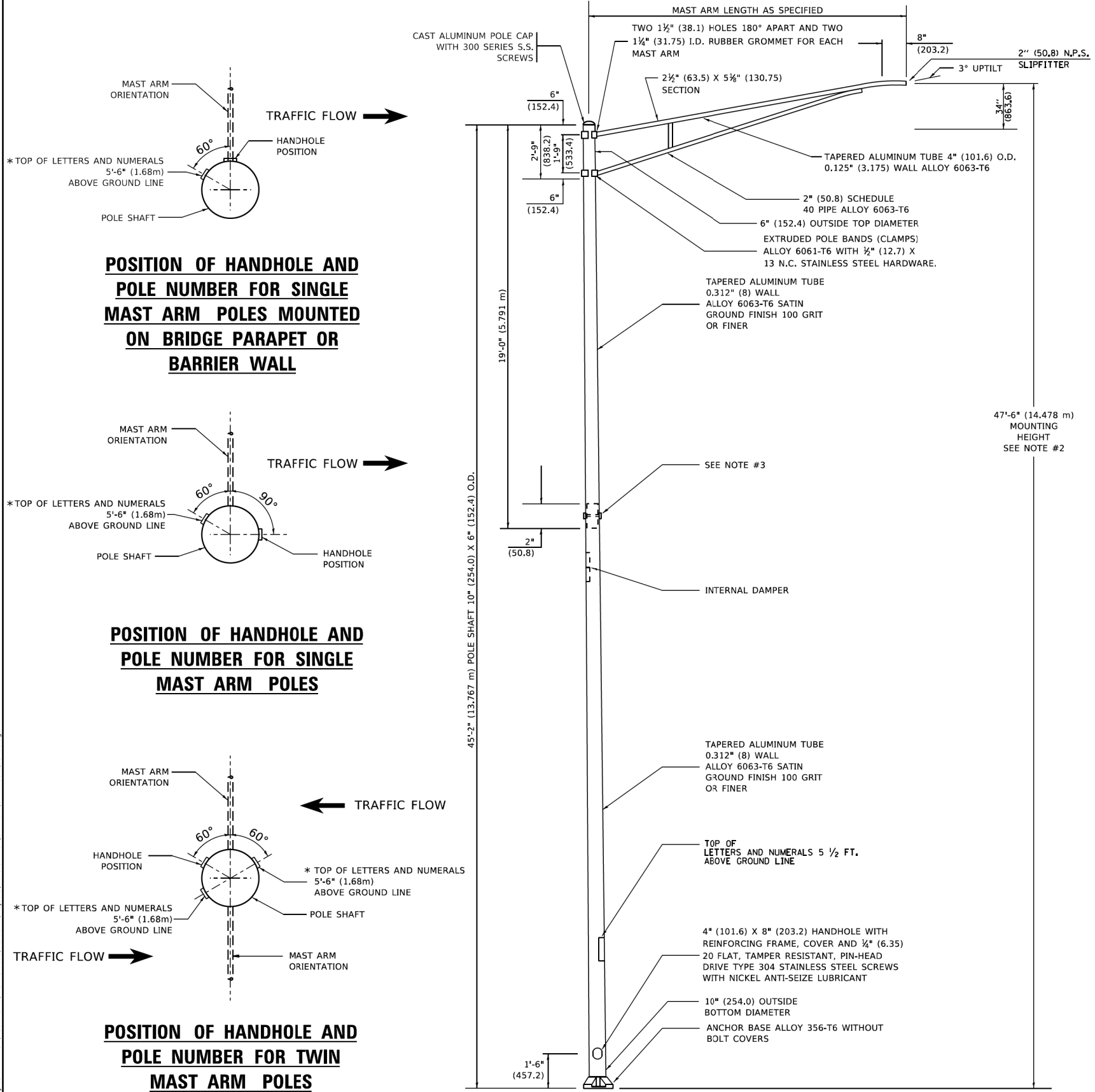
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

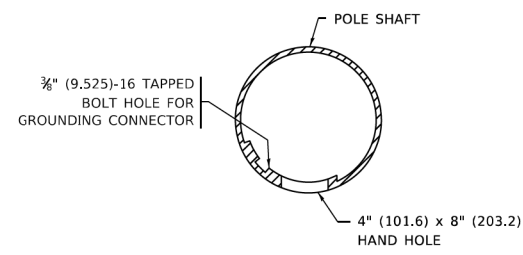
LIGHT POLE MOUNTED ON CONCRETE PARAPET WALL			
15" (381 mm) BOLT CIRCLE			
SCALE: NONE	SHEET 23	OF 29 SHEETS	STA. TO STA.

F.A. RTE. 336	SECTION 06-00329-02-PW	COUNTY MCHENRY	TOTAL SHEETS 735	SHEET NO. 399
BE-330		CONTRACT NO. 61J93		
ILLINOIS FED. AID PROJECT				

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LIGHT POLE BASE PLATE DETAIL
15 INCH (381.0) BOLT CIRCLE



HANDHOLE DETAIL
(N.T.S.)

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
- TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
- THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
- THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
- LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
- LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
- LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

USER NAME = Lawrence,DeManche	DESIGNED -	REVISED - R. TOMSONS 01-18-13
	DRAWN -	REVISED - R. TOMSONS 03-18-15
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - TG 06-13-22
PLOT DATE = 12/19/2023	DATE -	REVISED - R. TOMSONS 12-19-23

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALUMINUM LIGHT POLE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47'-6" (14.478 m) MOUNTING HEIGHT		336	06-00329-02-PW	MCHENRY	735	400
SCALE: NONE		BE-400		CONTRACT NO. 61J93		
SHEET 24	OF 29 SHEETS	STA.	TO STA.			

ILLINOIS	FED. AID PROJECT
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