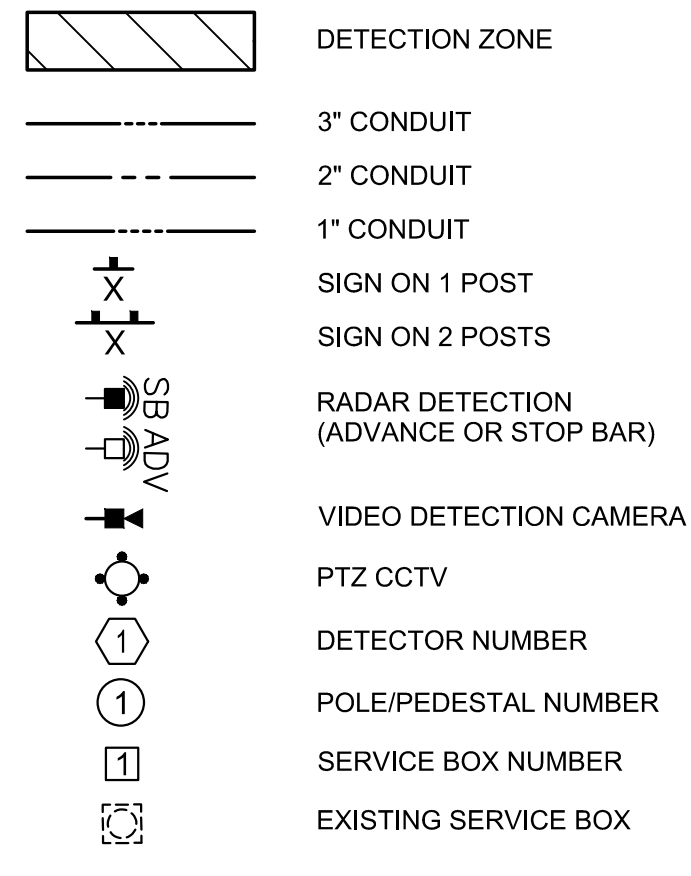
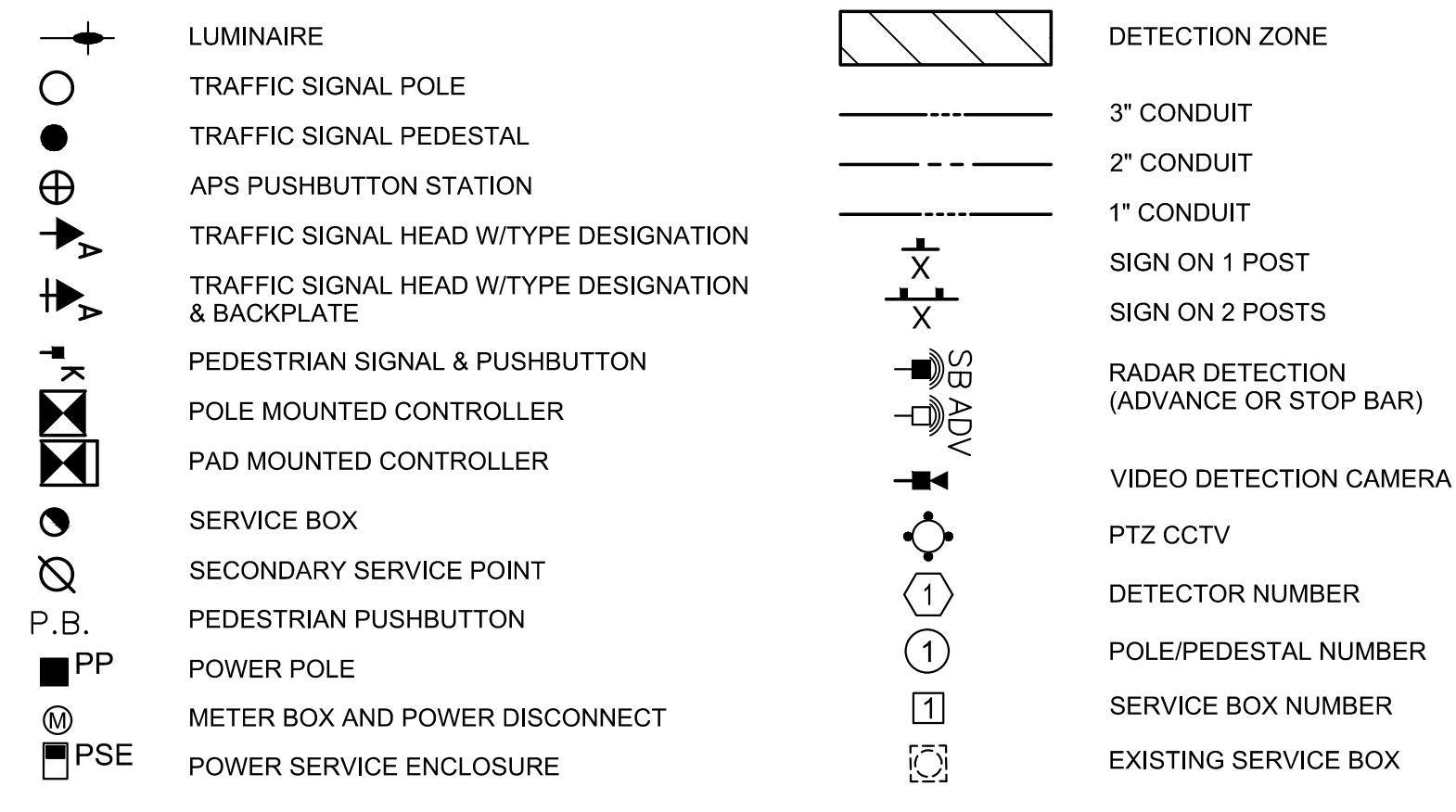
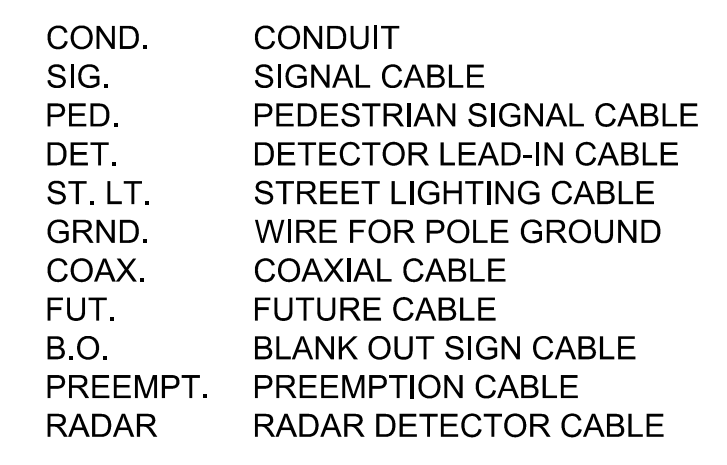


J:\PROJECTS\2022\1010447\_COW\_135TH STREET FROM CENTRAL TO 137TH STREET\100-220447-CAD\SHOTS\05 CIVIL\SIGNALS\220447-05-0501.DWG  
 PLOTTED: Tuesday, July 16, 2024 @ 02:32PM

### LEGEND



### LEGEND



# 4-C FROM PEDESTRIAN SIGNAL HEAD (K) TO ADA PUSHBUTTON PROVIDED BY SUPPLIER.

### DETECTOR SUMMARY

DETECTOR NUMBER	DETECTION ZONE SIZE	STOP BAR DETECTION	ADVANCED DETECTION	# TIMING (SEC)		MODE		PHASE CALLED	DISTANCE FROM STOP BAR
				TOTAL STRETCH + EXTENSION	DELAY	PRESENCE	PULSE		
1	6' x 50'	X		2.5	0	X		1	5'
2a, 2b	6' x 50'	X		3	0	X		6	5'
3a, 3b	6' x 6'		X	3	0		X	6	92'
4a, 4b	6' x 6'		X	3	0		X	6	260'
5	6' x 50'	X		2.5	0	X		7	5'
6a, 6b	6' x 50'	X		3	0	X		4	5'
7a, 7b	6' x 6'		X	3	0		X	4	92'
8a, 8b	6' x 6'		X	3	0		X	4	260'
9	6' x 50'	X		2.5	0	X		5	5'
10a, 10b	6' x 50'	X		3	0	X		2	5'
11a, 11b	6' x 6'		X	3	0		X	2	92'
12a, 12b	6' x 6'		X	3	0		X	2	260'
13	6' x 50'	X		2.5	0	X		3	5'
14a, 14b	6' x 50'	X		3	0	X		8	5'
15a, 15b	6' x 6'		X	3	0		X	8	92'
16a, 16b	6' x 6'		X	3	0		X	8	260'

# TIMINGS SHOWN IN DETECTOR SUMMARY CHART INCLUDE THE TOTAL STRETCH + EXTENSION. DETECTOR TIMING SHALL BE PROGRAMMED INTO THE TRAFFIC SIGNAL CONTROLLER. SEE TRAFFIC SIGNAL GENERAL NOTES FOR ADVANCED DETECTION DISTANCE AND TIMING.

### SUGGESTED TIMINGS (SEC.)

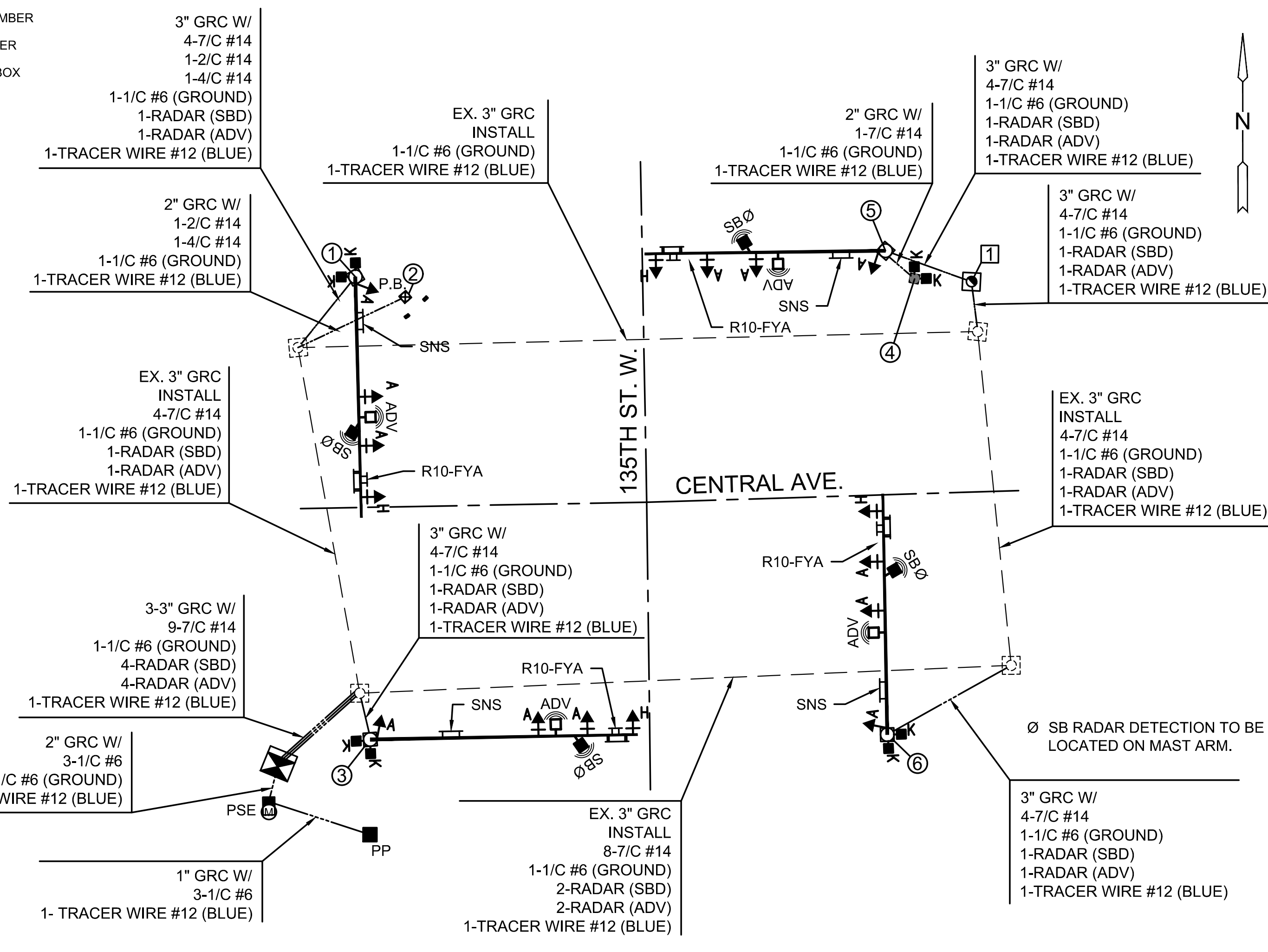
PHASE	MINIMUM INITIAL	*MAXIMUM GREEN SPLIT	**PEDESTRIAN			***CLEARANCE	
			WALK	FDW	SDW	YELLOW	ALL RED
1	7	25				3.6	2.5
2	15	30	7.0	25.0		4.4	2.5
3	7	25				3.5	2.5
4	15	40	7.0	20.0		4.3	2.5
5	7	25	-	-		3.6	2.5
6	15	30	7.0	25.0		4.4	2.5
7	7	25				3.5	2.5
8	15	40	7.0	20.0		4.4	2.5

CLEARANCE DESIGN SPEEDS:  
 135TH STREET = 40 MPH  
 CENTRAL AVE = 40 MPH

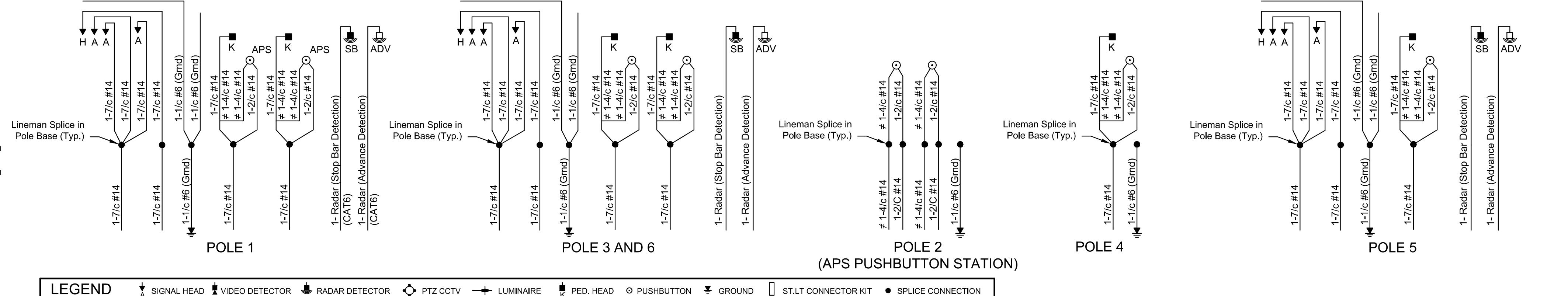
- \* MAXIMUM GREEN SPLIT IS FOR NON-PEDESTRIAN CALLS ONLY. TIMING INCORPORATES YELLOW & ALL RED CLEARANCE TIMES.
- \*\* PEDESTRIAN PHASING SHALL EXTEND PHASE WHEN CALLED IF APPROPRIATE. PEDESTRIAN CLEARANCE TIMES SHALL FOLLOW MUTCD GUIDELINES FOR PHASES.
- \*\*\* SIGNAL CLEARANCE TIMINGS ARE CALCULATED BASED ON RECOMMENDATIONS FROM NCHRP REPORT 731.

### NOTES:

- ALL MULTI-CONDUCTOR WIRE SHALL BE AWG #14 SOLID UNLESS SPECIFIED OTHERWISE. LABEL EACH WIRE AS SHOWN IN PART 700 SPECIFICATIONS.
- ALL GROUND WIRE SHALL BE #6 AWG COPPER WIRE IN ACCORDANCE WITH ASTM B-3. SOLID BARE COPPER WIRE SHALL BE USED FOR ALL EXTERIOR INSTALLATIONS INCLUDING SERVICE AND GROUND ROD BONDING. OTHERWISE, GREEN INSULATED STRANDED WIRE TYPE "THHN/THWN" SHALL BE USED.
- GROUND WIRE SHALL BE BONDED TO EACH GROUND ROD AT EVERY POLE, PEDESTAL, SERVICE BOX, AND CONTROLLER TO FORM ONE CONTINUOUS GROUND CIRCUIT.
- DETECTOR CABLES SHOULD RUN CONTINUOUS. SPLICES, IF REQUIRED, SHALL ONLY OCCUR IN THE POLE BASE AND MUST BE APPROVED BY THE CITY OF WICHITA TRAFFIC ENGINEER.
- IN NO CASE SHALL MORE THAN 60% OF ANY CONDUIT BE FILLED BY AREA.
- STREET LIGHTING CABLE SHALL BE SPLICED IN SERVICE BOXES. THE SPLICE SHALL BE MADE WATERPROOF.
- SPLICES AT POLE BASE SHALL BE LINEMAN SPLICES PER SECTION 702.21.11. TERMINAL BLOCKS WILL NOT BE USED.
- ALL CONDUIT SHALL BE HOT DIPPED GALVANIZED RIGID STEEL CONDUIT (GRC) AS SHOWN IN THE PROJECT SPECIFICATIONS.
- DURING EMERGENCY FLASH OPERATIONS, ALL SIGNAL PHASES SHALL BE RED INDICATIONS. PEDESTRIAN PHASE SHALL BE DARK.



### POLE WIRING DIAGRAMS



TRAFFIC SIGNAL PLANS FOR  
**135TH STREET WEST AND CENTRAL AVE**  
 WICHITA, KS

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### TRAFFIC SIGNAL WIRING PLAN

PROJECT NO.	472-2024-086048	
DATE	7/16/2024	
SCALE	NO SCALE	
DESIGNED	DRAWN	CHECKED
JRA	WNJ	JRA
NO.	REVISION	DATE
SHEET NO.	5 OF 15	