

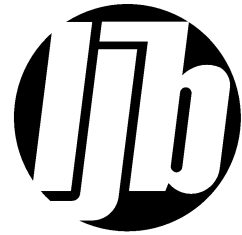
GENERAL SUMMARY

MODEL: Sheet_SurvFt_PAPER: 34x22 (in.) DATE: 9/19/2025 TIME: 11:46:45 AM USER: sbrahim Q:\ODOT_OpU\119194A\00 - STW-Safety Dgn 2020 PID\112342\0013 MIA-41-11.32\118156\400-Engineering\Signals\118156_CS001.dgn

REF NO.	SHEET NO.	STATION TO STATION			625	625	625	625		632	632	632	632	809	633		809	633	633	633	633					
					PULL BOX, 725.08, 18"	PULL BOX, 725.08, 24"	PULL BOX REMOVED	GROUND ROD		VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	VEHICULAR SIGNAL HEAD, (LED), 4-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	PEDESTAL FOUNDATION	PEDESTAL, 11' TRANSFORMER BASE	CCTV IP-CAMERA SYSTEM, QUAD MULTI-VIEW FIXED WITH PTZ		CONTROLLER ITEM, MISC.: REUSE OF SPREAD SPECTRUM RADIO	ATC CONTROLLER, AS PER PLAN	CABINET, TYPE TS-2, AS PER PLAN	CABINET FOUNDATION	CONTROLLER WORK PAD					
					EACH	EACH	EACH	EACH		EACH	EACH	EACH	EACH	EACH	LS		EACH	EACH	EACH	EACH	EACH					
			TO																							
SB1	P.110	SP-2								1																
SB2	P.110	SP-2								1																
EB1	P.110	SP-3								1																
EB2	P.110	SP-3								1																
EB3	P.110	SP-3								1																
WB1	P.110	SP-1								1																
WB2	P.110	SP-1								1																
SB	P.110	SP-2										1														
WB	P.110	SP-1									1															
EB1	P.116	SP-3								1																
EB2	P.116	SP-3								1																
WB1	P.116	SP-1								1																
WB2	P.116	SP-1								1																
NB1	P.116	SP-2								1																
NB2	P.116	SP-2								1																
EB1	P.116	SP-3									1															
NB1	P.116	SP-2										1														
PB-1	P.110	430+06	54' LT	SR 41	1																					
PB-2	P.110	430+05	53' RT	SR 41	1																					
PB-3	P.110	431+04	59' LT	SR 41	1																					
PB-5	P.110	432+26	55' LT	SR 41	1																					
PB-6	P.110	432+26	50' RT	SR 41	1																					
PB-4	P.110	431+13	47' RT	SR 41		1																				
PS-1	P.110	430+22	56' LT	SR 41				1				1	1													
PS-2	P.110	429+93	53' RT	SR 41				1				1	1													
PS-3	P.110	430+18	55' RT	SR 41				1				1	1													
PS-4	P.110	431+05	56' LT	SR 41				1				1	1													
PS-5	P.110	430+94	53' RT	SR 41				1				1	1													
PB-7	P.110	431+43	65' RT	SR 41	1																					
PB-1	P.116	440+08	60' LT	SR 41	1																					
PB-3	P.116	440+89	60' LT	SR 41	1																					
PB-4	P.116	440+99	62' RT	SR 41	1																					
PB-2	P.116	440+16	52' RT	SR 41		1																				
SP-3	P.110	431+13	58' RT	SR 41										1	1											
	P.116	439+95	57' RT	SR 41										1	1											
CONT	P.110	431+29	62' RT														1	1	1	1	1					
CONT	P.116	439+70	62' RT														1	1	1	1	1					
PS-1	P.116	440+10	54' LT	SR 41				1				1	1													
PS-2	P.116	440+08	48' RT	SR 41				1				1	1													
PS-3	P.116	440+92	54' LT	SR 41				1				1	1													
PS-5	P.116	441+07	54' RT	SR 41				1				1	1													
PS-6	P.116	440+93	55' RT	SR 41				1				1	1													
REMOVE	P.111	9+00	26' LT	RAMP F			1																			
REMOVE	P.110	427+55	52' RT	SR 41			1																			
REMOVE	P.110	429+49	53' RT	SR 41			1																			
REMOVE	P.110	431+52	46' RT	SR 41			1																			
REMOVE	P.110	431+54	50' RT	SR 41			1																			
REMOVE	P.110	431+98	47' LT	SR 41			1																			
REMOVE	P.110	430+42	68' LT	SR 41			1																			
REMOVE	P.116	440+85	53' RT	SR 41			1																			
REMOVE	P.116	439+44	48' RT	SR 41			1																			
REMOVE	P.116	24+60	15' RT	RAMP D			1																			
REMOVE	P.117	20+19	28' LT	RAMP D			1																			
REPLACE	P.117	22+48	52' LT	RAMP D	1																					
TOTALS CARRIED TO GENERAL SUMMARY					10	2	11	10		13	2	2	10	10	2		2	2	2	2	2					

TRAFFIC SIGNAL SUBSUMMARY

DESIGN AGENCY



DESIGNER

SHH

REVIEWER

LAS 11/02/24

PROJECT ID

118156

SHEET

P.107

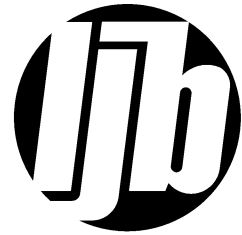
TOTAL

P.122

REF NO.	SHEET NO.	STATION TO STATION		625	625	625	625	625	632	632	632	632	625	625			632	632	632	630	632	632	632			
				CONDUIT, 2", 725.051	CONDUIT, 3", 725.051	CONDUIT, 4", 725.051	CONDUIT, JACKED OR DRILLED, 725.04, 2" CONDUIT	GROUND ROD	CONDUIT, JACKED OR DRILLED, 725.051, 4" CONDUIT	SIGNAL SUPPORT FOUNDATION, AS PER PLAN	POWER SERVICE	CONDUIT RISER, 2" DIAMETER	REMOVAL OF TRAFFIC SIGNAL INSTALLATION		TRENCH	TRENCH IN PAVED AREA			SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14	COMBINATION SIGNAL SUPPORT, MISC.: TC-12.31 DESIGN 12 POLE WITH TC-81.22 DESIGN 14 ARM AND TC-12.31 DESIGN 12 ARM	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-12.30	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
				FT	FT	FT	FT	EACH	FT	EACH	EACH	EACH		FT	FT			EACH	EACH	EACH	EACH	FT	FT	FT		
			TO					1		1								1	1							
SP-1	P.110	429+99	54' LT					1		1								1								
SP-2	P.110	430+19	62' RT					1		1									1							
SP-3	P.110	431+13	58' RT					1		1	1	1														
SP-1	P.116	439+94	68' LT					1		1										1	1					
SP-2	P.116	440+81	68' LT					1		1	1							1								
SP-3	P.116	440+94	59' RT					1		1		1							1							
	P.110	1A		CONTROLLER																				327.8		
	P.110	6A		6B																				14		
	P.110	6B		CONTROLLER																				306.8		
	P.110	4A		CONTROLLER																				250		
	P.110	4B		4C																				14		
	P.110	4C		CONTROLLER																				240.5		
	P.110	2A		CONTROLLER																				106.3		
	P.110	2B		2C																				15		
	P.110	2C		CONTROLLER																				89.5		
	P.116	6A		6B																				17		
	P.116	6B		CONTROLLER																				222.5		
	P.116	8A		CONTROLLER																				309.9		
	P.116	8B		8C																				17		
	P.116	8C		CONTROLLER																				285.9		
	P.116	5A		CONTROLLER																				237.3		
	P.116	2A		2B																				14		
	P.116	2B		CONTROLLER																				216.3		
	P.110	SP-1		CONTROLLER																		277	277			
	P.110	PS-1		CONTROLLER																		241	252			
	P.110	SP-2		CONTROLLER																		173	173			
	P.110	PS-2		CONTROLLER																		155	166			
	P.110	SP-3		CONTROLLER		17								17								40	40			
	P.110	PS-5		CONTROLLER																		55	66			
	P.110	PS-4		CONTROLLER																		146	157			
	P.116	SP-1		CONTROLLER																		191	191			
	P.116	PS-1		CONTROLLER																		171	182			
	P.116	SP-2		CONTROLLER																		280	280			
	P.116	PS-3		CONTROLLER																		249	260			
	P.116	SP-3		CONTROLLER																		141	141			
	P.116	PS-5		CONTROLLER																		137	148			
	P.116	PS-6		CONTROLLER																		134	145			
	P.116	PS-2		CONTROLLER																		35	46			
	P.110	SP-1		PS-1		25								25												
	P.110	PB1		PB3					99																	
	P.110	PB3		PS-4		4								4												
	P.110	POWER POLE		CONTROLLER	163		104							139	26											
	P.110	PB4		PS-5		20								10	10											
	P.110	PB4		PB2					109																	
	P.110	PB2		SP-2		18								18												
	P.110	PB2		PS-3		14								14												
	P.110	PB2		PS-2		11								11												
	P.110	PB3		PB4					107																	
	P.116	SP-1		PS-1	23									23												
	P.116	PB1		SP-2	24		81		81																	
	P.116	PB3		PS-3	4									4												
	P.116	PB3		PS-4	20									20												
	P.116	PB4		PS-6	10									10												
	P.116	PB4		PS-5	13									13												
	P.116	PB4		SP-3	6									6												
	P.116	PB4		PB2					94																	
	P.116	PB2		PS-2	5									5												
	P.116	PB2		CONTROLLER	52		70							52												
	P.116	PB2		PB1					112																	
TOTALS CARRIED TO GENERAL SUMMARY					320	109	70	297	6	602	6	2	2	2		371	36			2	2	2	2	2425	2524	2684

TRAFFIC SIGNAL SUBSUMMARY

DESIGN AGENCY



DESIGNER

SHH

REVIEWER

LAS 11/04/24

PROJECT ID

118156

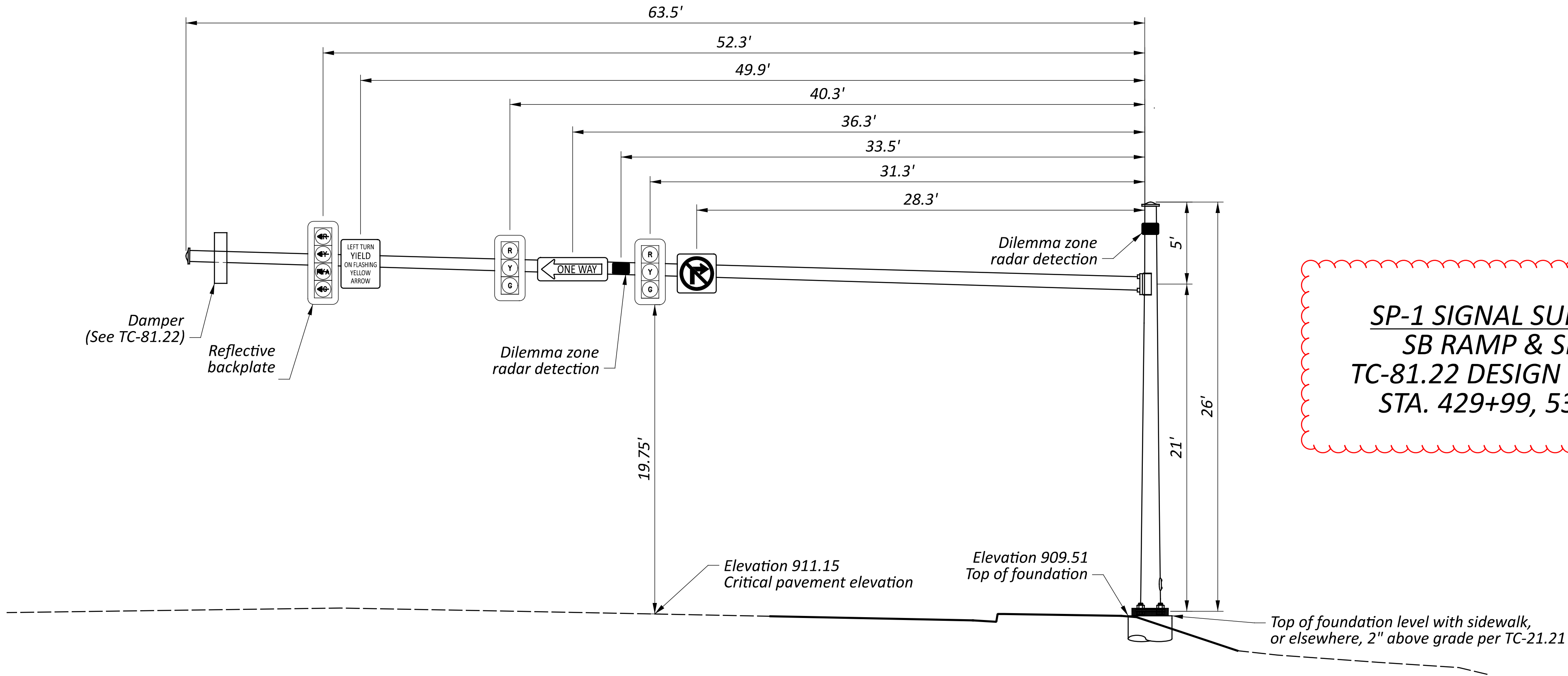
SHEET

TOTAL

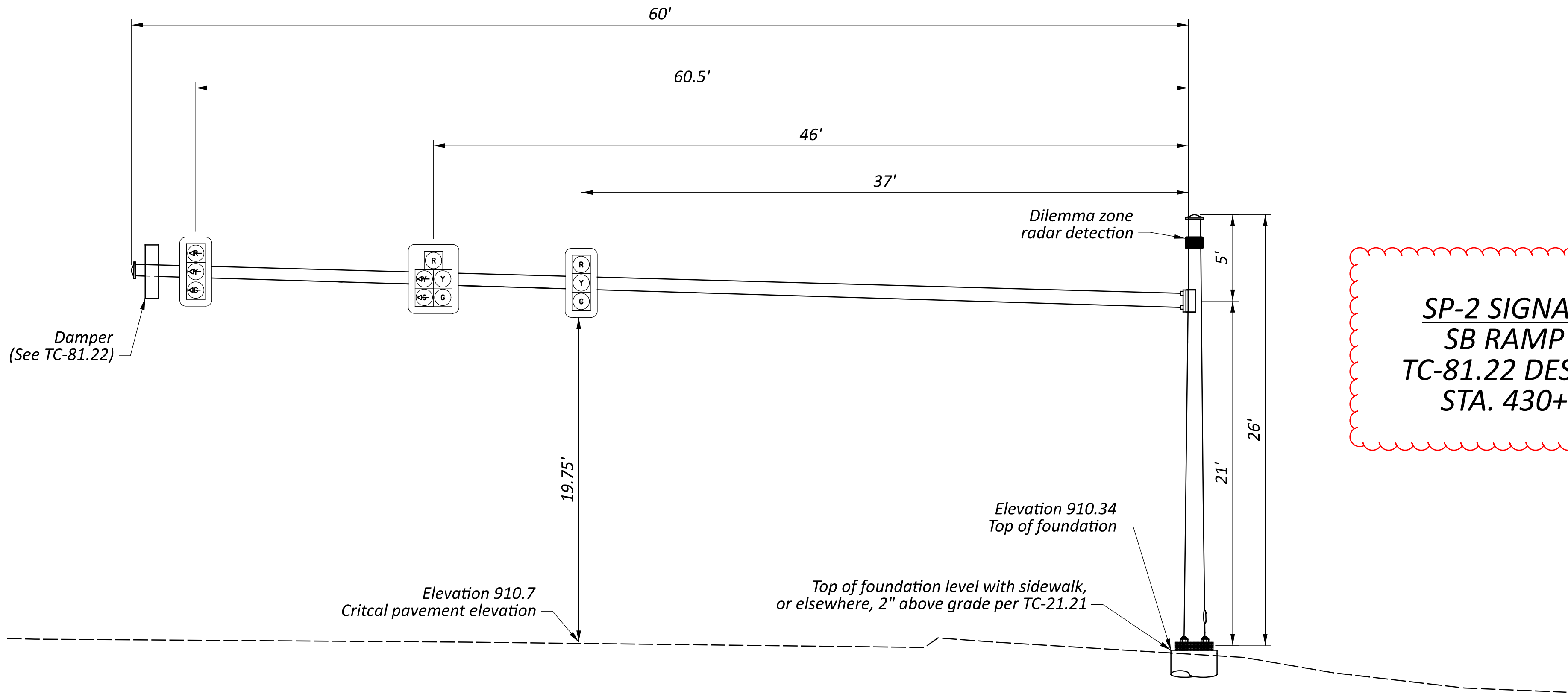
P.109

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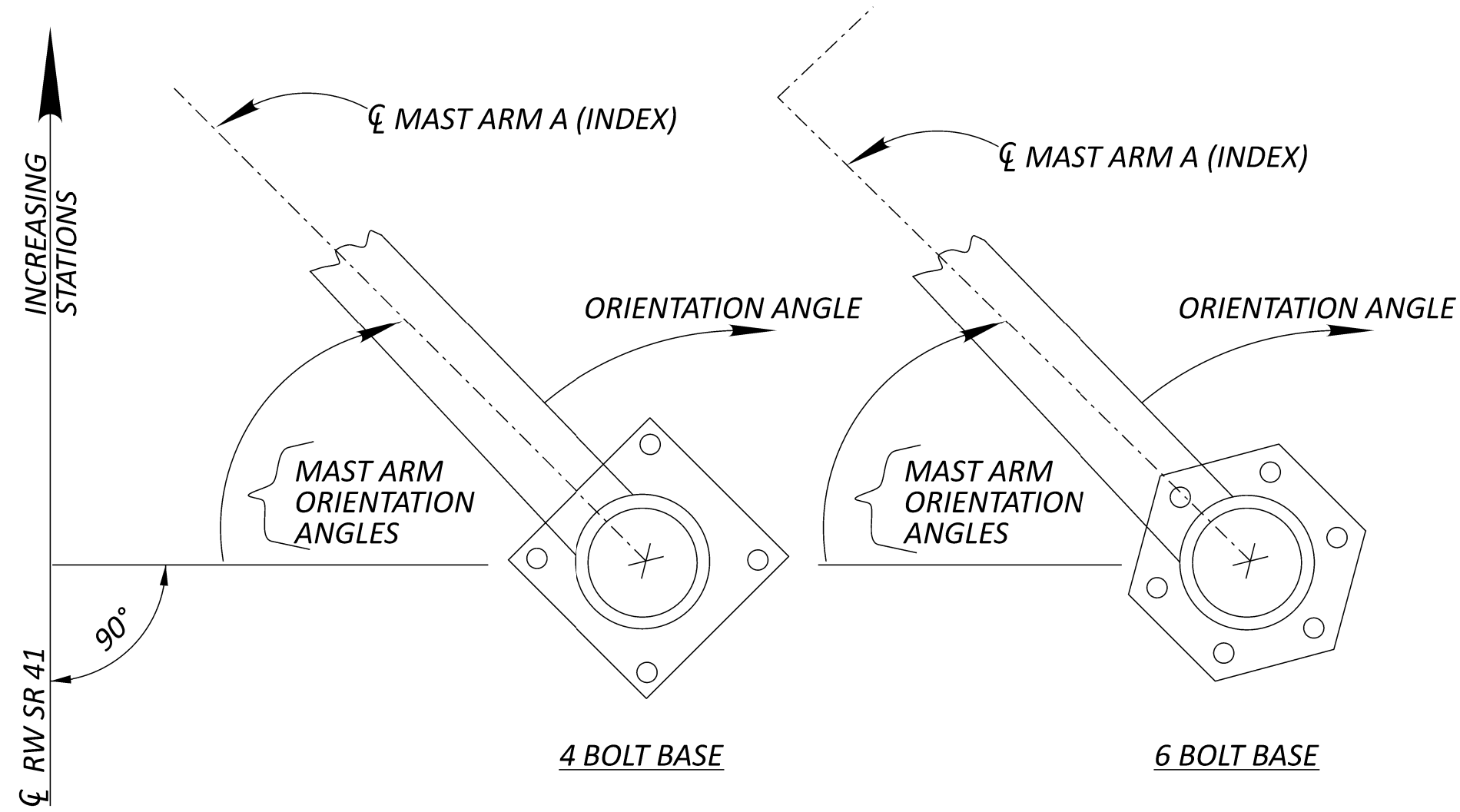
- SIGNAL HEAD MOUNTING REQUIREMENTS:
- RIGID MOUNTED
 - ALL HEADS LEVEL WITHIN 6"
 - 5-SECTIONS HEADS CENTERED ON YELLOW
 - RAMP METER HEADS CENTERED BETWEEN RED AND GREEN
 - 4-SECTION FYA HEADS CENTERED BETWEEN YELLOWS



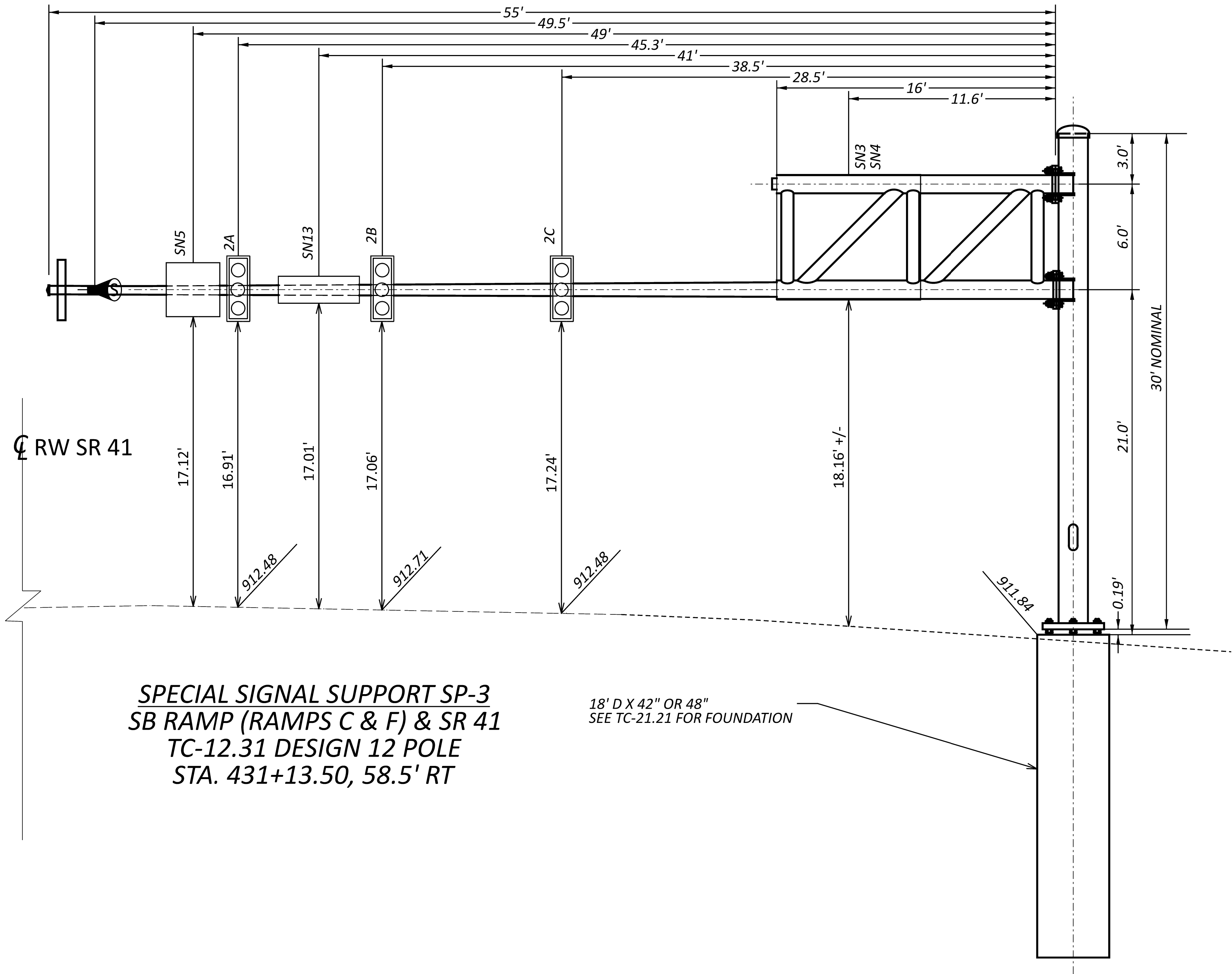
SP-1 SIGNAL SUPPORT
SB RAMP & SR 41
TC-81.22 DESIGN 13 POLE
STA. 429+99, 53.5' LT



SP-2 SIGNAL SUPPORT
SB RAMP (RAMP C)
TC-81.22 DESIGN 14 POLE
STA. 430+19, 62' RT



POLE ORIENTATION



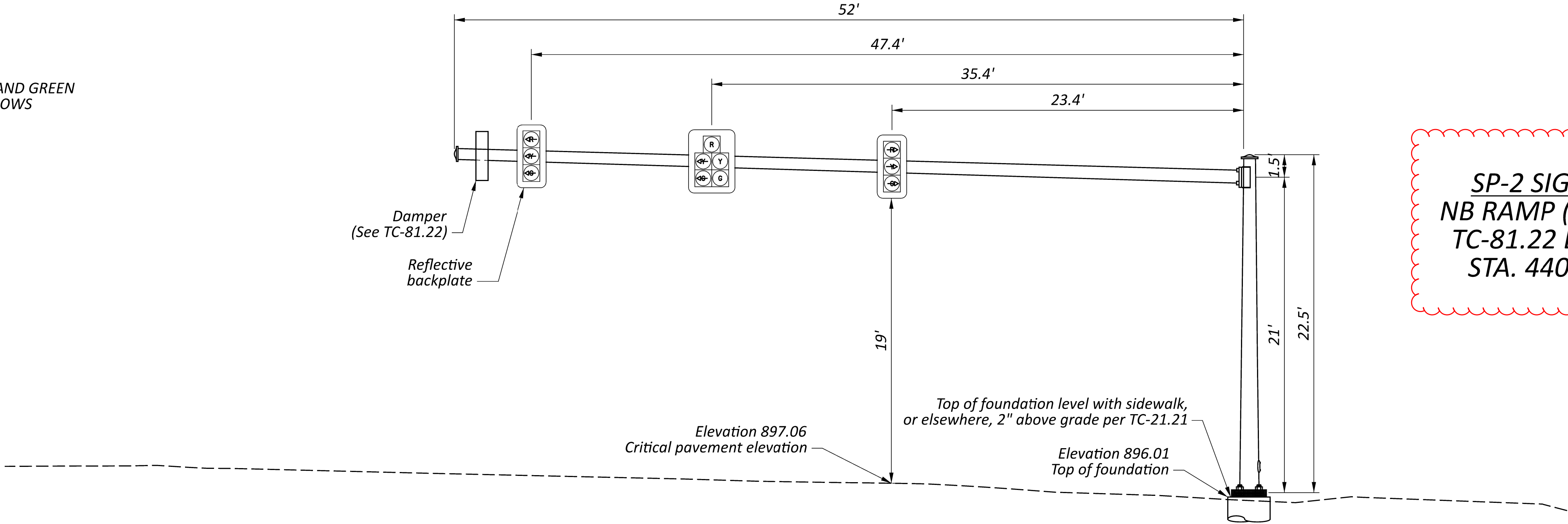
SPECIAL SIGNAL SUPPORT SP-3
SB RAMP (RAMPS C & F) & SR 41
TC-12.31 DESIGN 12 POLE
STA. 431+13.50, 58.5' RT

18' D X 42" OR 48"
SEE TC-21.21 FOR FOUNDATION

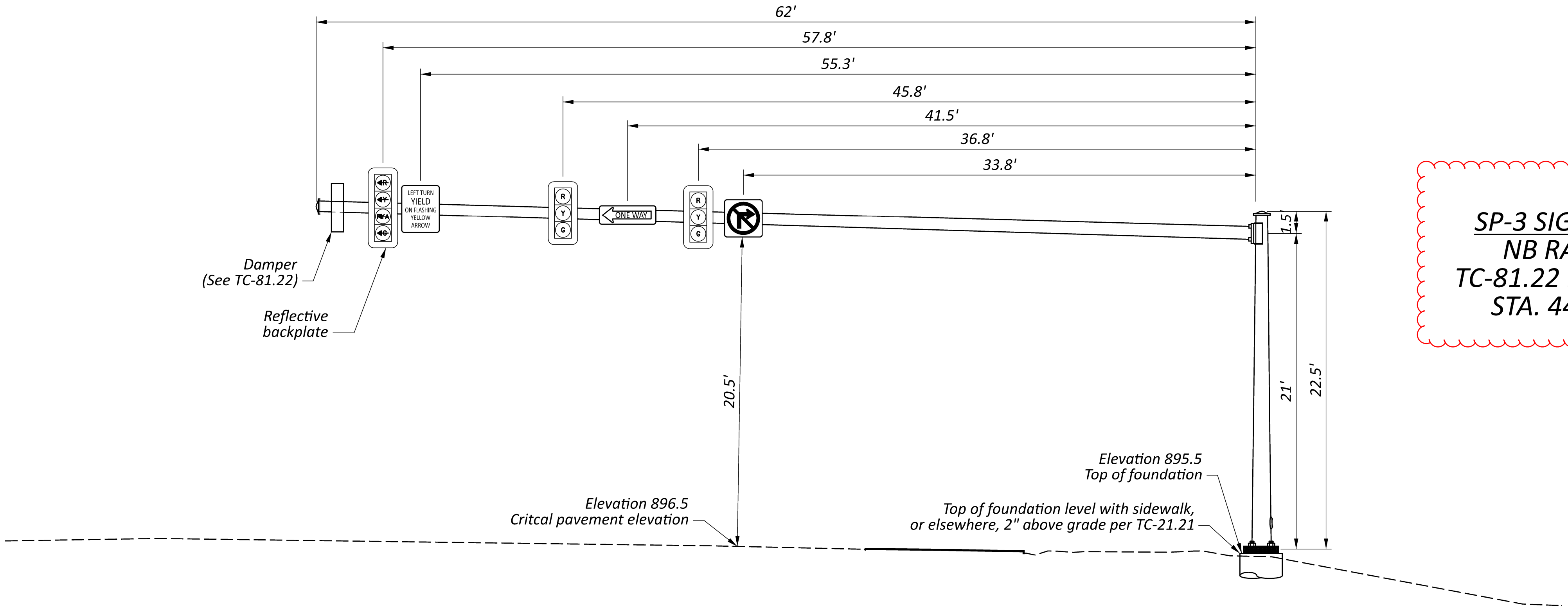
SUPPORT NO.	STATION	OFFSET	ELEVATION		SIGNAL SUPPORT DETAILS												ORIENTATION ANGLES FROM MAST ARM A					
			A (Pavt. Elev.)	B (Top of Found.)	DESIGN TYPE	DESIGN NO.	POLE HEIGHT	ARM HEIGHT	L	L1	L2	L3	L4	L5	L6	L7	MAST ARM A ANGLE	MAST ARM B ANGLE	PEDESTRIAN SIGNAL	PEDESTRIAN PUSHBUTTON	POWER SERVICE	HANDHOLE
SP-1	429+99	53.5' LT	911.15	909.51	TC-81.22	13	22.5	21	60	28.3 SN1	31.3 6B	36.3 SN12	40.3 6A	49.9 SN2	52.3 1A		0	-	90	90	-	180
SP-2	430+19	62' RT	910.7	910.34	TC-81.22	14	22.5	21	63.5	37 4C	46 4B	60.5 4A	- -	- -	- -	- -	95	-	-	-	-	180
SP-3	431+13.5	58.5' RT	905.12	903.60	TC-12.31	12	30	21	51	11.6 SN3	11.6 SN4	28.5 2C	38.5 2B	41 SN13	45.3 2A	49 SN5	0	-	-	-	90	180
								27	16	11.6 SN3	11.6 SN4	- -	- -	- -	- -	- -	- 0					
PS-1	430+22.66	56.1' LT			PEDESTAL	-	11	-	-	-	-	-	-	-	-	-	-	-	0	90	-	-
PS-2	429+93.77	53.14' RT			PEDESTAL	-	11	-	-	-	-	-	-	-	-	-	-	-	270	270	-	-
PS-3	430+18.37	55.63' RT			PEDESTAL	-	11	-	-	-	-	-	-	-	-	-	-	-	0	270	-	-
PS-4	431+05.98	56.17' LT			PEDESTAL	-	11	-	-	-	-	-	-	-	-	-	-	-	270	90	-	-
PS-5	430+94.47	53.72' RT			PEDESTAL	-	11	-	-	-	-	-	-	-	-	-	-	-	180	270	-	-

SIGNAL HEAD MOUNTING REQUIREMENTS:

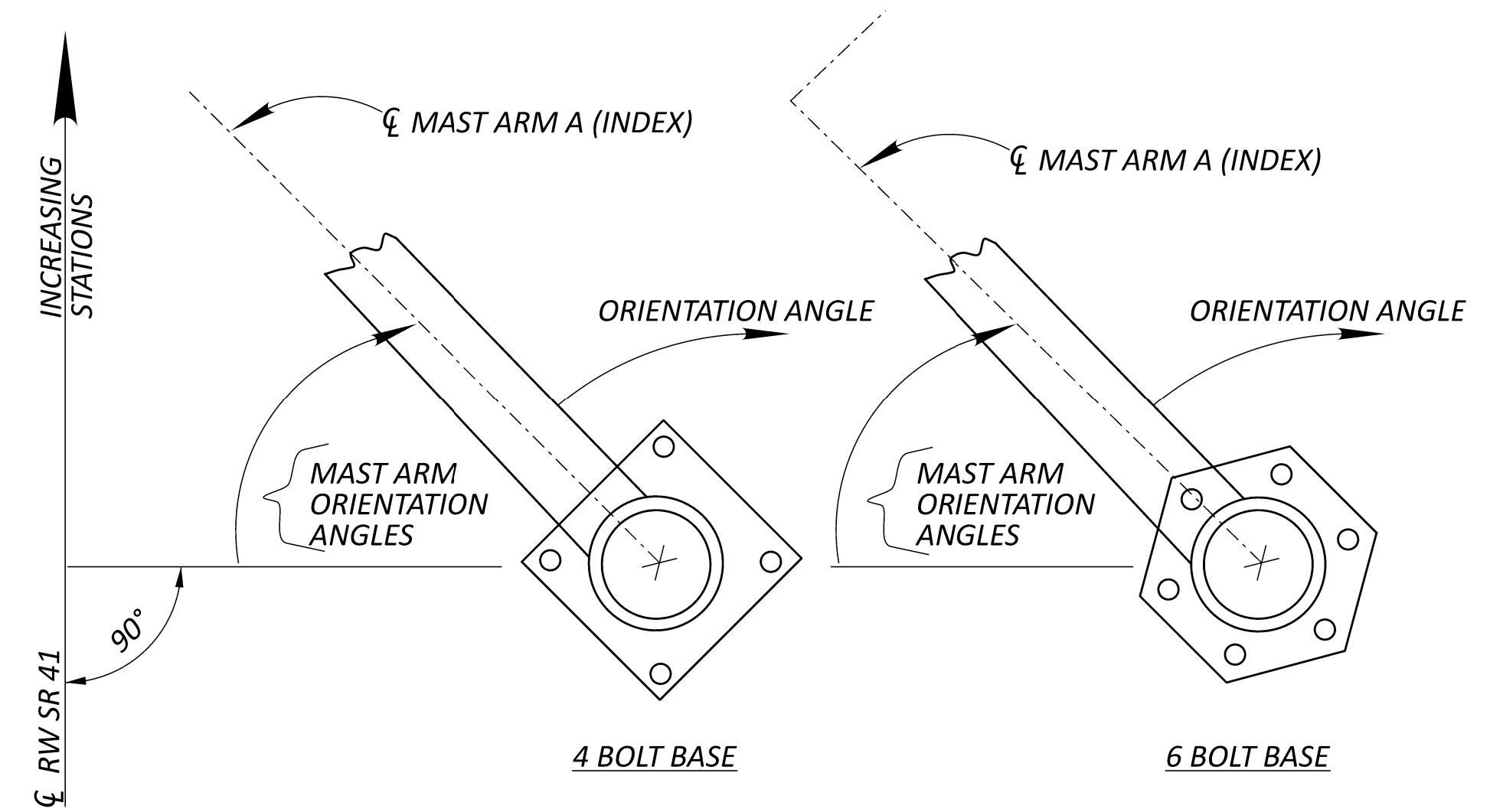
- RIGID MOUNTED
- ALL HEADS LEVEL WITHIN 6"
- 5-SECTIONS HEADS CENTERED ON YELLOW
- RAMP METER HEADS CENTERED BETWEEN RED AND GREEN
- 4-SECTION FYA HEADS CENTERED BETWEEN YELLOWS



SP-2 SIGNAL SUPPORT
NB RAMP (RAMP E) & SR 41
TC-81.22 DESIGN 13 POLE
STA. 440+80.5, 67.5' LT



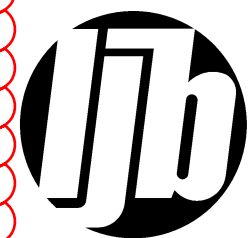
SP-3 SIGNAL SUPPORT
NB RAMP & SR 41
TC-81.22 DESIGN 14 POLE
STA. 440+94, 59' RT



TRAFFIC SIGNAL DETAILS

SR 41 & RAMPS D & E (NB)

- 18' D X 42" OR 48"
SEE TC-21.21 FOR FOUNDATION

DESIGN AGENCY

DESIGNER

SHH

REVIEWER

1 AS 11/01

11/0.

PROJECT ID
110156

118156

SHEET TOTAL

P.120 | P.3