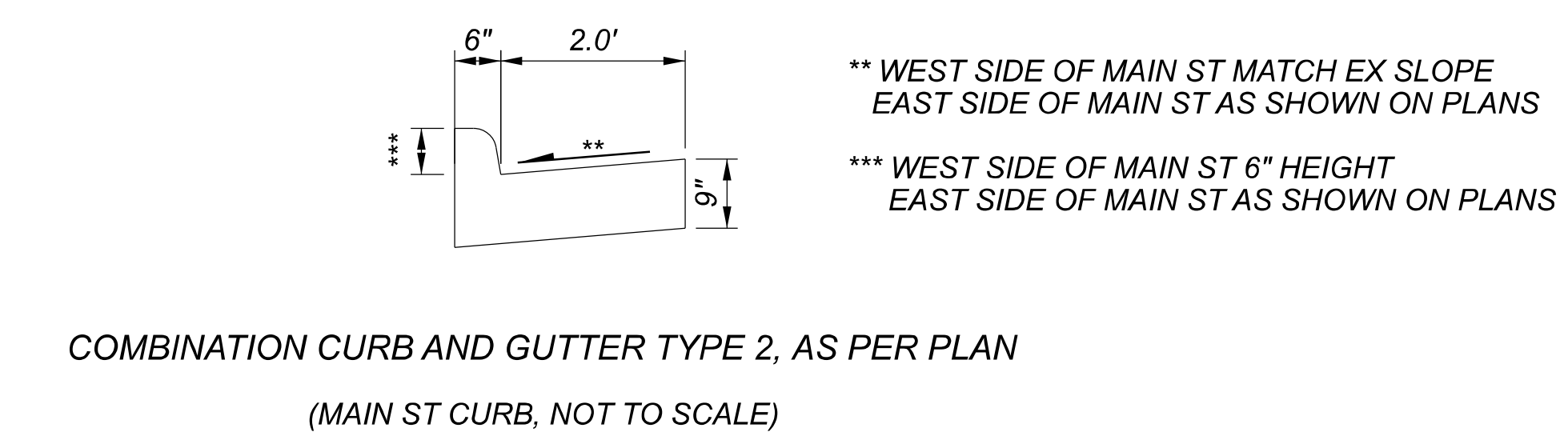
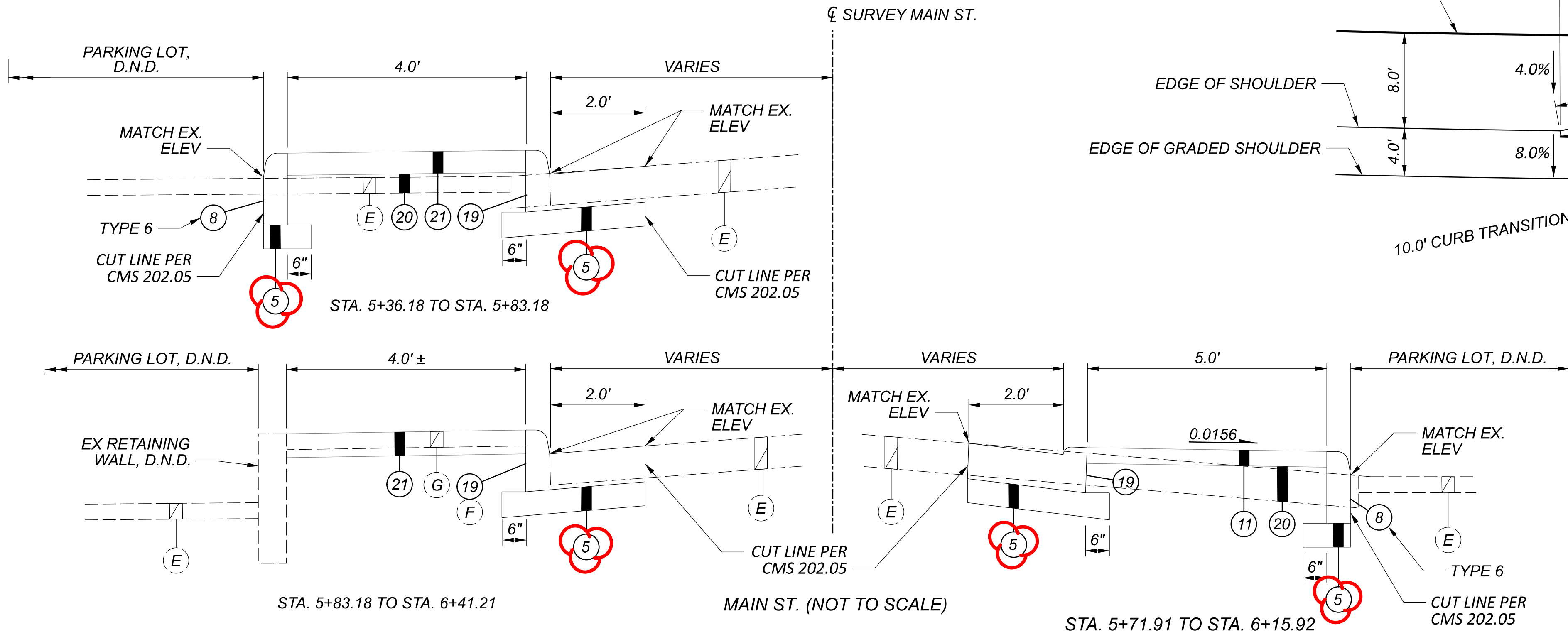
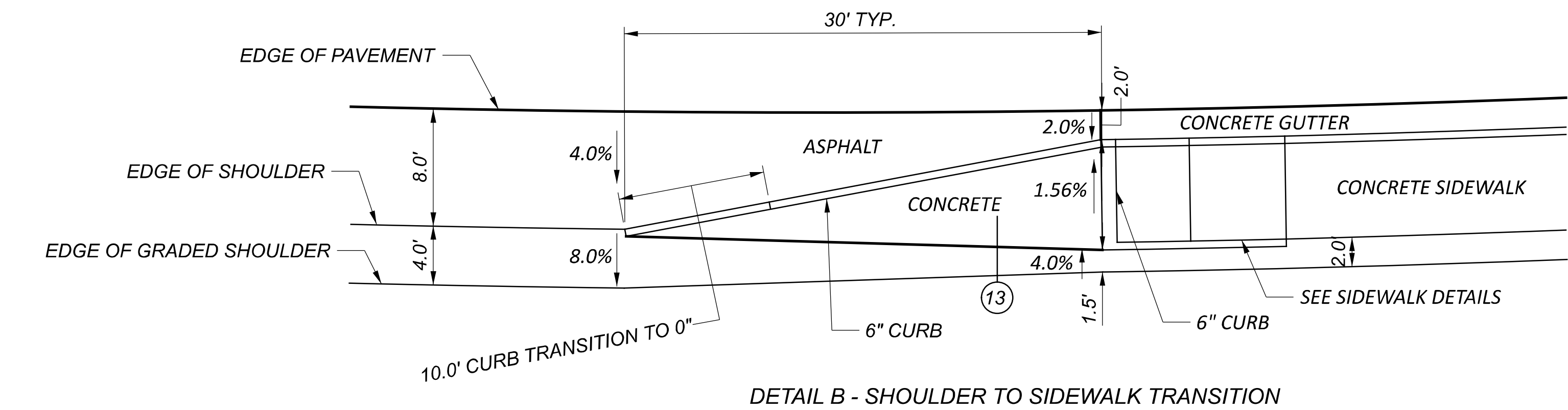
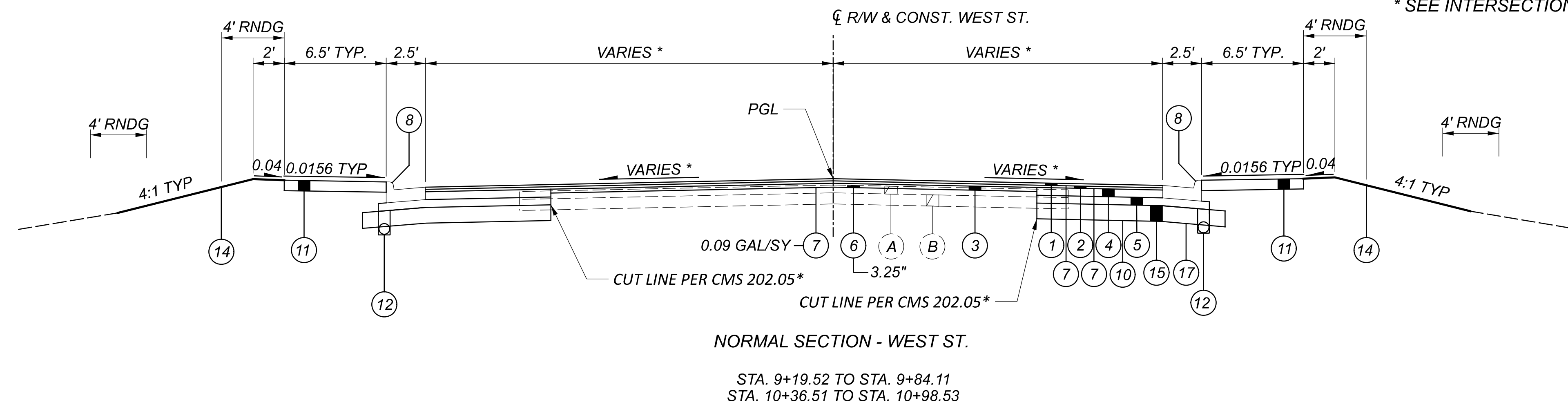
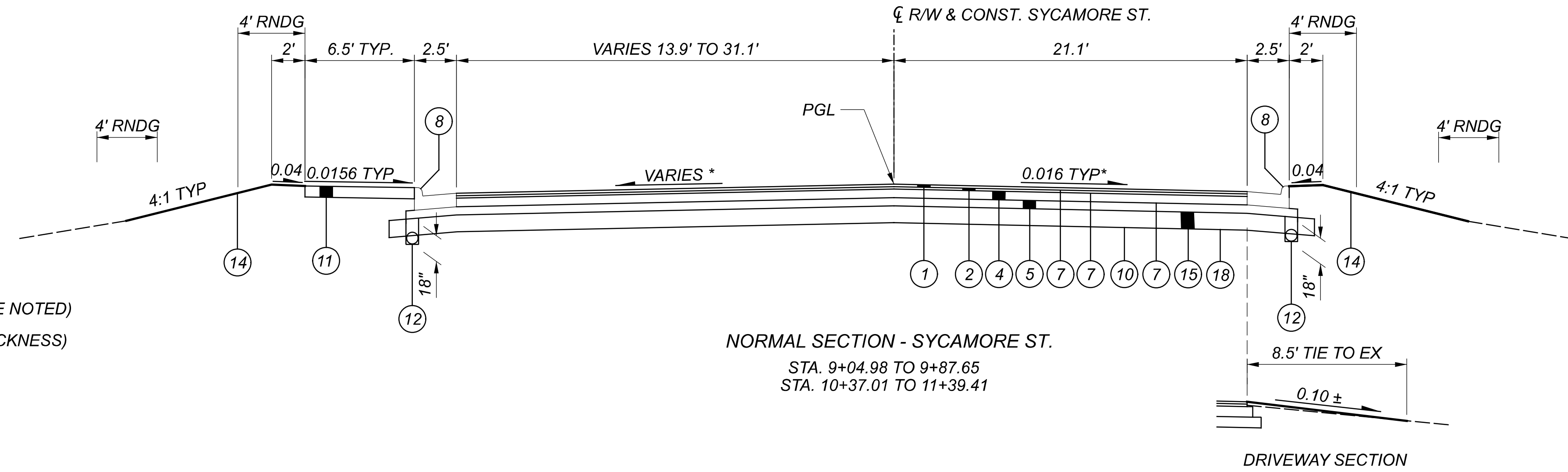


LEGEND

- ① ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A, (446), AS PER PLAN (PG76-22M)
- ② ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A, (446), AS PER PLAN (PG70-22M)
- ③ ITEM 442 - ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A, (449), AS PER PLAN (PG70-22M) (VARIABLE)
- ④ ITEM 302 - 6" ASPHALT CONCRETE BASE (449), PG64-22
- ⑤ ITEM 304 - 6" AGGREGATE BASE
- ⑥ ITEM 254 - 3.0" PAVEMENT PLANING (3.25" WHERE SHOWN ON PLANS)
- ⑦ ITEM 407 - NON-TRACKING TACK COAT (0.06 GAL/SY UNLESS OTHERWISE NOTED)
- ⑧ ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2 (9.25" GUTTER THICKNESS)
- ITEM 609 - CURB, TYPE 6 (WHERE SHOWN ON PLANS)
- ⑨ ITEM 606 - GUARDRAIL, TYPE MGS, AS PER PLAN
- ⑩ ITEM 204 - SUBGRADE COMPACTION
- ⑪ ITEM 608 - 4" CONCRETE WALK
- ⑫ ITEM 605 - 6" BASE PIPE UNDERDRAINS OR 6" UNCLASSIFIED PIPE UNDERDRAIN
- ⑬ ITEM 452 - 4" NON-REINFORCED CONCRETE PAVEMENT
- ⑭ ITEM 659 - SEEDING AND MULCHING
- ⑮ ITEM 204 - 12" GRANULAR MATERIAL, TYPE C
- ⑯ ITEM 203 - EXCAVATION
- ⑰ ITEM 204 - GEOTEXTILE FABRIC
- ⑱ ITEM 204 - GEOGRID
- ⑲ ITEM 609 - COMBINATION CURB AND GUTTER TYPE 2, AS PER PLAN
- ⑳ ITEM 203 - EMBANKMENT
- ㉑ ITEM 203 - ROADWAY MISC.: DECORATIVE ROCK

EXISTING LEGEND

- | | |
|-------------------------|-------------------------|
| (A) 6" ASPHALT PAVEMENT | (D) 8" STONE BASE |
| (B) 9" CONCRETE | (E) EX ASPHALT PAVEMENT |
| (C) 6" ASPHALT PAVEMENT | (F) EX CONCRETE CURB |
| | (G) EX CONCRETE WALK |



** WEST SIDE OF MAIN ST MATCH EX SLOPE
 EAST SIDE OF MAIN ST AS SHOWN ON PLANS

*** WEST SIDE OF MAIN ST 6" HEIGHT
 EAST SIDE OF MAIN ST AS SHOWN ON PLANS

TYPICAL SECTIONS

PUT-SR 65-01.08

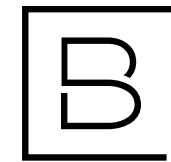
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DESIGN AGENCY	B
DESIGNER	MAS
REVIEWER	XF 08/30/23
PROJECT ID	107760
SHEET	TOTAL 5 72

SHEET NUM.					PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
				59	01/SAF/21	02/STR/22						
											TRAFFIC SIGNALS	
				96		96	625	25304	96	FT	CONDUIT, 1-1/2", 725.051	
				274	274		625	25504	274	FT	CONDUIT, 3", 725.051	
				266	266		625	25604	266	FT	CONDUIT, 4", 725.051	
				6	6		625	30706	6	EACH	PULL BOX, 725.08, 24"	
				621	525	96	625	29002	621	FT	TRENCH, 24" DEEP	
				4	4		632	05006	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK, WITH BACKPLATE, 15 YEAR WARRANTY LED	
				5	5		632	05086	5	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK, WITH BACKPLATE, 15 YEAR WARRANTY LED	
				2	2		632	20731	2	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	55
				1		1	632	64020	1	EACH	PEDESTAL FOUNDATION	57
				1		1	632	89700	1	EACH	PEDESTAL, 11'	57
				9	9		632	25000	9	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
				2	2		632	25010	2	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
				2	2		632	26000	2	EACH	PEDESTRIAN PUSHBUTTON	
				4	4		632	64010	4	EACH	SIGNAL SUPPORT FOUNDATION	
				431	431		632	40200	431	FT	SIGNAL CABLE, 2 CONDUCTOR, NO. 14 AWG	
				2,327	2,327		632	40700	2,327	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
				45	45		632	69200	45	FT	POWER CABLE, 2 CONDUCTOR, NO. 4 AWG	
				27	27		632	69900	27	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 4 AWG	
				1	1		632	70001	1	EACH	POWER SERVICE, AS PER PLAN	55
				4	4		632	79141	4	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13, AS PER PLAN	55
				1	1		632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	55
				1	1		633	65521	1	EACH	CABINET, TYPE 332, AS PER PLAN	55
				1	1		633	74001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), AS PER PLAN, 1000 WATT	56
				1	1		633	67100	1	EACH	CABINET FOUNDATION	
				1	1		633	67200	1	EACH	CONTROLLER WORK PAD	
				2	2		809	69001	2	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	56
				4	4		809	69101	4	EACH	STOP LINE RADAR DETECTION, AS PER PLAN	56
				1	1		809	69123	1	EACH	ATC CONTROLLER, AS PER PLAN	55
				1	1		819	10000	1	EACH	RAILROAD PREEMPTION INTERFACE, (LOCATE ON SIGNAL POLE ADJ. TO CONTROLLER)	56
				2	1	1	828	00100	2	EACH	LED BLANKOUT SIGN (NO LEFT TURN, 24"X24"X5.5")	56 & 57
				1	1		828	00100	1	EACH	LED BLANKOUT SIGN (NO RIGHT TURN, 24"X24"X5.5")	56
				1		1	828	00100	1	EACH	LED BLANKOUT SIGN (NO TURNS TRAIN, 24"X30"X5.5")	56 & 57
											LIGHTING	
				8	8		625	00450	8	EACH	CONNECTION, FUSED PULL APART	
				6	6		625	00480	6	EACH	CONNECTION, UNFUSED PERMANENT	
				4	4		625	18201	4	EACH	BRACKET ARM, 15', AS PER PLAN	55
				1,275	1,275		625	23200	1,275	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
				484	484		625	23400	484	FT	NO. 10 AWG POLE AND BRACKET CABLE	
				4	4		625	26253	4	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	55
				203	203		632	62810	203	FT	INTERCONNECT CABLE, MISC.: 6 PAIR, NO. 19 AWG, SOLID REA (PE-39)	56

SIGNAL SUMMARY

DESIGN AGENCY



BERGMANN
 ARCHITECTS ENGINEERS PLANNERS
540 BRIMFIELD BLVD, STE C,
 WARE, OH 43087

DESIGNER
 SJR

REVIEWER
 LAW 08/30/23

PROJECT ID
 107760

SHEET	TOTAL
54	72

809 ADVANCE RADAR DETECTION, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A WAVETRONIX SMARTSENSOR ADVANCE DETECTION UNIT (MODEL SS-200E). THE DETECTION UNIT SHALL INCLUDE THE FOLLOWING:

1. POWER SHALL BE PROVIDED FROM THE TRAFFIC CABINET.
2. ALL REQUIRED INPUTS CARDS SHALL BE INCLUDED IN THE TRAFFIC CABINET AND SHALL BE COMPATIBLE WITH CALTRANS, NEMA TS1 AND NEMA TS2 DETECTOR RACKS. THE CARDS SHALL PROVIDE TRUE PRESENCE DETECTOR CALLS OR CONTACT CLOSURE TO THE TRAFFIC CONTROLLER.
3. THE UNIT SHALL BE MOUNTED DIRECTLY TO A POLE OR MAST ARM, AS RECOMMENDED BY THE MANUFACTURER. CABLE(S) SHALL BE PROVIDED AS REQUIRED AND RECOMMENDED BY THE MANUFACTURER.
4. SURGE PROTECTION DEVICES, AS RECOMMENDED BY THE MANUFACTURER SHALL BE INCLUDED BOTH AT THE POLE WHERE THE UNIT IS LOCATED TO PROTECT THE UNIT AND IN THE TRAFFIC CABINET TO PROTECT THE CABINET ELECTRONICS.
5. THE MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE DURING INSTALLATION AND TESTING AND SHALL PROVIDE ONSITE TRAINING ON THE SETUP, OPERATION AND MAINTENANCE OF THE UNIT.
6. A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND ETHERNET CABLE (MINIMUM 7 FEET).
7. THE POWER SUPPLY AND COMMUNICATION MODULES SHALL BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR TO THE TRAFFIC CABINET. THE PANEL SHALL INCLUDE MODULAR-PLUG STYLE CONNECTIONS FOR UP TO FOUR (4) SENSOR CABLES. ADDITIONAL SENSORS MAY BE HARD-WIRED TO THE COMMUNICATION MODULES, AS NECESSARY.
8. THE CONTRACTOR SHALL INSTALL THE RADAR DETECTION PRIOR TO MILLING/DISABLING EXISTING LOOPS.
9. THE INSTALLATION SHALL INCLUDE ALL CONTROLLER PROGRAMMING FOR COMPLETE INSTALLATION, WHICH INCLUDES MODIFICATIONS FOR REMOVAL OF EXISTING DETECTION.

PAYMENT FOR ITEM 809 ADVANCE RADAR DETECTION, AS PER PLAN SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT, CONNECTIONS TESTED AND ACCEPTED, AND ANY OTHER NECESSARY HARDWARE TO ESTABLISH A FULLY FUNCTIONAL DETECTION SYSTEM.

WORK INSPECTION

THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER AND DISTRICT TRAFFIC ENGINEER WITH 72-HOUR NOTICE OF ANY SIGNAL WORK TO BE PERFORMED AT THE INTERSECTION SITE(S) SO THAT INSPECTION SERVICES CAN BE SUPPLIED.

809 STOP-LINE RADAR DETECTION, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A WAVETRONIX SMARTSENSOR MATRIX DETECTION UNIT. THE DETECTION UNIT SHALL INCLUDE THE FOLLOWING:

1. POWER SHALL BE PROVIDED FROM THE TRAFFIC CABINET.
2. ALL REQUIRED INPUTS CARDS SHALL BE INCLUDED IN THE TRAFFIC CABINET AND SHALL BE COMPATIBLE WITH CALTRANS, NEMA TS1 AND NEMA TS2 DETECTOR RACKS. THE CARDS SHALL PROVIDE TRUE PRESENCE DETECTOR CALLS OR CONTACT CLOSURE TO THE TRAFFIC CONTROLLER.
3. THE UNIT SHALL BE MOUNTED DIRECTLY TO A POLE OR MAST ARM, AS RECOMMENDED BY THE MANUFACTURER. CABLE(S) SHALL BE PROVIDED AS REQUIRED AND RECOMMENDED BY THE MANUFACTURER.
4. SURGE PROTECTION DEVICES, AS RECOMMENDED BY THE MANUFACTURER SHALL BE INCLUDED BOTH AT THE POLE WHERE THE UNIT IS LOCATED TO PROTECT THE UNIT AND IN THE TRAFFIC CABINET TO PROTECT THE CABINET ELECTRONICS.
5. THE MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE DURING INSTALLATION AND TESTING AND SHALL PROVIDE ONSITE TRAINING ON THE SETUP, OPERATION AND MAINTENANCE OF THE UNIT.
6. A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND ETHERNET CABLE (MINIMUM 7 FEET).
7. THE POWER SUPPLY AND COMMUNICATION MODULES SHALL BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR TO THE TRAFFIC CABINET. THE PANEL SHALL INCLUDE MODULAR-PLUG STYLE CONNECTIONS FOR UP TO FOUR (4) SENSOR CABLES. ADDITIONAL SENSORS MAY BE HARD-WIRED TO THE COMMUNICATION MODULES, AS NECESSARY.
8. THE CONTRACTOR SHALL INSTALL THE RADAR DETECTION PRIOR TO MILLING/DISABLING EXISTING LOOPS.
9. THE INSTALLATION SHALL INCLUDE ALL CONTROLLER PROGRAMMING FOR COMPLETE INSTALLATION, WHICH INCLUDES MODIFICATIONS FOR REMOVAL OF EXISTING DETECTION.

PAYMENT FOR ITEM 809 STOP-LINE RADAR DETECTION, AS PER PLAN SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT AND CONNECTIONS TESTED AND ACCEPTED.

632 INTERCONNECT CABLE MISC.: 6 PAIR, NO. 19 AWG, SOLID REA (PE-39)

IN ADDITION TO THE REQUIREMENTS OF 632.23, THIS ITEM SHALL CONSIST OF PROVIDING AND INSTALLING 6 PAIR, NO. 19 AWG INTERCONNECT CABLE FROM THE TRAFFIC SIGNAL CONTROLLER TO THE RAILROAD BUNGALOW. THE CONTRACTOR SHALL ROUTE THE RAILROAD INTERCONNECT CABLE FROM THE TRAFFIC SIGNAL CONTROLLER UNIT TO THE PULLBOX PB-6 IDENTIFIED ON THE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE RAILROAD TO HAVE THE CABLE ROUTED/PULLED INTO THE RAILROAD BUNGALOW AND CONNECTED TO RAILROAD EQUIPMENT.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER FOOT OF CABLE INSTALLED AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS, INSTALLED COMPLETE, TESTED AND ACCEPTED.

828 LED BLANKOUT SIGN (TURN PROHIBITION)

THE CONTRACTOR SHALL PROVIDE AND INSTALL A SOLID FILLED RED SYMBOL, SOLID FILLED WHITE ARROW NO RIGHT TURN SYMBOL, AND A NO LEFT TURN SYMBOL SIGN ON THE TRAFFIC SIGNAL MAST ARM AT THE LOCATIONS INDICATED ON THE PLANS. THE SYMBOL SIGN SHALL BE A WEATHER TIGHT NEMA ENCLOSURE. THE FOLLOWING SPECIFICATIONS SHALL APPLY:

VOLTAGE: 120V
ILLUMINATED: LED
SYMBOL HEIGHT: 20.0"
CABINET SIZE: 30"H x 24"W x 5.5"D
FINISH: BLACK
WARRANTY: 5 YEARS

THE SIGNS SHALL BE WIRED TO ACTIVATE DURING THE RAILROAD PREEMPTION PHASES AND REMAIN ON FOR THE ENTIRE RAILROAD PREEMPTION CYCLE.

THE MAST ARM MOUNTING BRACKET SHALL BE SUPPLIED BY THE SIGN MANUFACTURER AND INSTALLED BY THE CONTRACTOR. THE SIGN SHALL BE ACTIVATED (ON) WHEN THE CONTROLLER RECEIVES A RAILROAD PREEMPTION CALL. THE REMAINING TIME THE SIGN SHALL BE BLANK OR (OFF).

PAYMENT FOR THE ABOVE ITEM SHALL BE PAID AT THE UNIT PRICE BID PER EACH FOR ITEM 828, LED BLANKOUT SIGN, LED BLANKOUT SIGN, COMPLETE WHICH PRICE SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, MOUNTING HARDWARE FOR RIGID MOUNTING INCLUDING THE POWER CABLE AND ALL INCIDENTALS TO COMPLETE THE WORK.

819 RAILROAD PREEMPTION INTERFACE

INSTALL A RAILROAD PREEMPTION INTERFACE PANEL PER TC-86-10. BASED UPON TC-86.10, THE PROCESSOR INTERFACE IS REQUIRED FOR THIS PROJECT, INSTALL A INDICATOR PANEL PER CMS 819.09 ON PROPOSED SIGNAL POLE SP-2 ADJACENT TO THE TRAFFIC SIGNAL CONTROLLER. THE INDICATOR PANEL SHALL BE FACING THE TRAFFIC SIGNAL CABINET. MOUNT THE INDICATOR PANEL NO LESS THAN TEN FEET ABOVE THE ROADWAY LEVEL. ALSO, LOCATE THE INDICATORS SO AS TO PROVIDE A MINIMAL VISIBILITY TO ROADWAY USER AT OR APPROACHING THE INTERSECTION.

THE CONTRACTOR SHALL SCHEDULE A FINAL FIELD TEST, PRIOR TO THE 10-DAY SIGNAL BURN TEST, WITH THE ORDC, THEIR REPRESENTATIVE AND A REPRESENTATIVE FROM THE RAILROAD. THE FINAL FIELD TEST SHALL INCLUDE CHECKING THAT THE SIGNAL IS CONNECTED TO THE RAILROAD CONTROLLER AND OPERATES PER THE PLANS DURING A PREEMPTION CALL.

CONTACTS:
OHIO RAIL DEVELOPMENT COMMISSION (ORDC)
ALLEN BELL
PHONE: (614) 301-3548
EMAIL: Allen.Bell@dot.ohio.gov

CSX RAILROAD REPRESENTATIVE
BRAD ARMSTRONG
EMAIL: brad_armstrong@csx.com

PAYMENT FOR ALL MATERIALS AND COST FOR THIS ITEM SHALL BE COMPLETE AND INCLUDED IN ITEM 819-RAILROAD PREEMPTION INTERFACE, 1 EACH.

633 UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF C&M 633 AND 733, POLE ATTACHMENT HARDWARE WILL BE INCLUDED FOR POLE-MOUNTED CABINETS, AND A CABINET RISER (8-INCH MINIMUM) AND ANCHOR BOLTS WILL BE PROVIDED FOR BASE-MOUNTED CABINETS. BEFORE PERFORMING THE WORK, THE CONTRACTOR, THE DISTRICT TRAFFIC ENGINEER AND THE PROJECT ENGINEER WILL PERFORM A SITE INSPECTION TO ESTABLISH THE LOCATION OF THE UPS CABINET AND FOUNDATION.

THE UPS CABINET SHALL INCLUDE A GENERATOR POWER PANEL WITH A HEAVY-DUTY POWER RELAY VERSUS THE LINE VOLTAGE GENERATOR SWITCH. THE GENERATOR INLET SHALL BE A RECESSED PANEL WITH A DOOR THAT IS FLUSH WITH THE EXTERNAL SIDE OF THE UPS CABINET. IT SHALL INCLUDE A RECESSED PLUG, AUTOMATIC TRANSFER SWITCH AND A DOOR THAT SECURELY CLOSURES OVER THE POWER CORD.

THE CABINET SHALL HAVE A DOOR STOP MECHANISM AND THERMOSTATICALLY CONTROLLED FAN.

THE CABINET SHALL INCLUDE A BATTERY BALANCING DEVICE THAT REGULATES THE BATTERIES AND OPTIMIZES PERFORMANCE.

THE UPS FURNISHED SHALL BE AN ALPHA MANUFACTURED UNIT AND LISTED ON THE TRAFFIC AUTHORIZED PRODUCTS (TAP) LIST.

AFTER FOUR (4) HOURS OF BATTERY RUNTIME, THE SYSTEM SHALL BE PROGRAMMED TO SWITCH THE INTERSECTION FROM FULL OPERATION TO CONTROLLER AUTOMATIC FLASH OPERATION THROUGH THE MONITOR. THE CONTROLLER SHALL BE PROGRAMMED SO THAT FLASH OPERATION SHALL BEGIN ONCE THE INTERSECTION RUNS MINOR STREET GREEN (TYP. PH. 4 & 8), ALL-RED CLEARANCE, AND THEN FLASH OPERATION.

THE UPS OUTPUT NOTIFICATIONS FOR ON BATTERY, BATTERY 2-HOUR TIMER, AND LOW BATTERY SHALL BE WIRED INTO THE TRAFFIC SIGNAL CABINET BACK PANEL OR THROUGH THE CONTROLLER WITH A C11 TO PROVIDE SPECIAL STATUS ALARMS FOR EACH OUTPUT INTO THE SIGNAL CONTROLLER.

THIS ITEM SHALL INCLUDE A RED LED STATUS INDICATOR LAMP TO ALLOW MAINTENANCE PERSONNEL AND LAW ENFORCEMENT TO QUICKLY ASSESS WHETHER A TRAFFIC SIGNAL CABINET IS BEING POWERED BY A UPS. THE LED HOUSING SHALL BE NEMA 4X, IP65 OR IP66, RATED FOR OUTDOOR USE AND BE TAMPER/SHATTER RESISTANT. IT SHALL BE A DOMED ENCLOSURE CONTAINING A RED LENS WITH LED THAT IS VISIBLE FROM 100 FOOT MINIMUM. THE ENCLOSURE AND LED MODULE SHOULD BE PLACED ON THE SIDE OF THE UPS CABINET FACING TOWARDS THE MAINLINE ROADWAY AND SEALED FROM WATER INTRUSION. IT SHOULD BE WIRED USING MINIMUM 20GA STRANDED, INSULATED HOOKUP WIRE TO THE STATUS RELAY OUTPUTS OF THE UPS. THE WIRES SHALL BE TERMINATED BY LUGS AT THE DISPLAY END AND PERMANENTLY LABELED "BACKUP POWER STATUS DISPLAY," WITH WIRE POLARITY INDICATED. THE RED LED SHALL ONLY ILLUMINATE TO INDICATE THE CABINET IS OPERATING UNDER UPS BACKUP POWER (THE "BACKUP" OPERATING CONDITION). THIS ITEM INCLUDES PROGRAMMING THE UPS STATUS RELAY OUTPUTS TO PRODUCE THE LAMP STATUS DISPLAYS. THESE STATUS DISPLAYS WILL BE SOLID 100% DUTY CYCLE (NOT FLASHING) DISPLAYS. THE OPERATING VOLTAGE OF THE LED LAMP SHALL BE 120V AC UNLESS OTHERWISE INDICATED.



LEGEND

- TRAFFIC SIGNAL, 2 UNIT, 3 UNIT, OR PHB HEAD, 12"
- TRAFFIC SIGNAL, 4 OR 5 UNIT HEAD, 12"
- SIGNAL SUPPORT POLE
- PEDESTRIAN HEAD
- PEDESTRIAN PUSH BUTTON
- LUMINAIRE
- PEDESTAL SUPPORT
- ATC CONTROLLER AND WORK PAD
- TRAFFIC PULL BOX
- DILEMMA ZONE RADAR DETECTION UNIT
- STOP LINE RADAR DETECTION UNIT
- DETECTION ZONE
- DETECTOR COUNT

NOTES:

1. THE PREEMPTION CABLE (6 PAIR INTERCONNECT CABLE) WILL BE CONNECTED TO THE NEW RAILROAD BUNGALOW BY RAILROAD PERSONNEL. ODOT CONTRACTOR TO PROVIDE MATERIALS FOR 15' OF CONDUIT AND INTERCONNECT CABLE BETWEEN PB-6 AND CSX PULLBOX ADJACENT TO BUNGALOW. CSX TO INSTALL CONDUIT AND CONNECT THE CABLE TO THEIR FACILITY. THE CONTRACTOR SHALL NOTIFY ALL PERSONNEL AS DESCRIBED IN THE NOTES PRIOR TO THE 10 DAY BURN TEST TO PERFORM A ON-SITE TEST OF THE PREEMPTION.

PULL BOX TABLE

PULL BOX #	STATION	SIDE	OFFSET	SIZE (IN.)
PB-1	64+69	LT	28'	24
PB-2		NOT USED		
PB-3	64+48	RT	68'	24
PB-4	65+56	LT	37'	24
PB-5	65+54	RT	41'	24
PB-6	11+18	LT	28'	24
PB-7	6+35	LT	28'	24



SIGNAL PLAN
S.R. 65 (VETERANS HIGHWAY) & SYCAMORE STREET

☐ R/W & CONST. S.R. 65

☐ R/W & CONST. SYCAMORE ST.

SP-1 SIGNAL SUPPORT STA. 64+78, 37' LT.

SP1 DETAIL SHOWN ON PAGE 58

15' CONDUIT, 725.051, 3" (2)-7C, (1)-5C, (2) WAVETRONIX RADAR, (3) LIGHTING NO.4

PB-1 PULL BOX, 725.08, 24"

98' CONDUIT, 725.051, 4" (5)-7C, (1) BLANKOUT POWER, (1)-2C (3) WAVETRONIX RADAR (3) LIGHTING NO.4

12' CONDUIT, 725.051, 3" (2)-7C, (1) WAVETRONIX RADAR (3) LIGHTING NO.4

POLE MOUNTED POWER SERVICE, AS PER PLAN (CONNECT TO RELOCATED POWER POLE)

GROUND MOUNTED SIGNAL CONTROLLER AND UPS STA 64+39, 54' RT

SP-2 SIGNAL SUPPORT W/CONDUIT RISER, 2" STA. 64+39, 56' RT.

PROP. SIGN Sw4

(2) 25' CONDUIT, 725.051, 4" (9)-7C, (2)-2C, (4) BLANKOUT POWER, (5) WAVETRONIX RADAR (1) 6 PAIR INTERCONNECT CABLE (3) LIGHTING NO. 4

SP-5 SIGN PEDESTAL STA. 5+42, 24.34' LT. (☐ SURVEY MAIN ST)

96' CONDUIT, 725.051, 1.5" (2) BLANKOUT POWER

72' CONDUIT, 725.051, 3" (2) BLANKOUT POWER (1) - 6 PAIR INTERCONNECT CABLE

PB-7 PULL BOX, 725.08, 24"

86' CONDUIT, 725.051, 3" (3)-7C, (1)-2C, (1) WAVETRONIX RADAR (3) LIGHTING NO.4

PULL BOX, 725.08, 24" (PB-4)

14' CONDUIT, 725.051, 3" (3)-7C, (1)-2C, (1) WAVETRONIX RADAR (3) LIGHTING NO.4

SIGNAL SUPPORT STA. 65+59, 24' LT. (SP-3)

SP3 DETAIL SHOWN ON PAGE 58

PROP. SIGN Se4

PROP. PEDESTRIAN SIGNAL 1P, PED BUTTON P1B AND SIGN SnB1

SP4 DETAIL SHOWN ON PAGE 58

PULL BOX, 725.08, 24" (PB-5)

5' CONDUIT, 725.051, 4" (4)-7C, (1) BLANKOUT POWER, (1)-2C (2) WAVETRONIX RADAR, (3) LIGHTING NO.4

SIGNAL SUPPORT STA. 65+55, 45' RT. (SP-4)

PROP. SIGN Se2

PROP. PEDESTRIAN SIGNAL 2P, PED BUTTON P2B AND SIGN SnB2

113' CONDUIT, 725.051, 4" (4)-7C, (1) BLANKOUT POWER, (1)-2C (2) WAVETRONIX RADAR (3) LIGHTING NO.4

15' CONDUIT, 725.051, 3" (1) - 6 PAIR INTERCONNECT CABLE (SEE NOTE 1)

PULL BOX, 725.08, 24" (PB-6)

60' CONDUIT, 725.051, 3" (1) - 6 PAIR INTERCONNECT CABLE

CSX TRACKS: STA. 11+50.22 DOT# 155711Y RRRP# BE 142.90

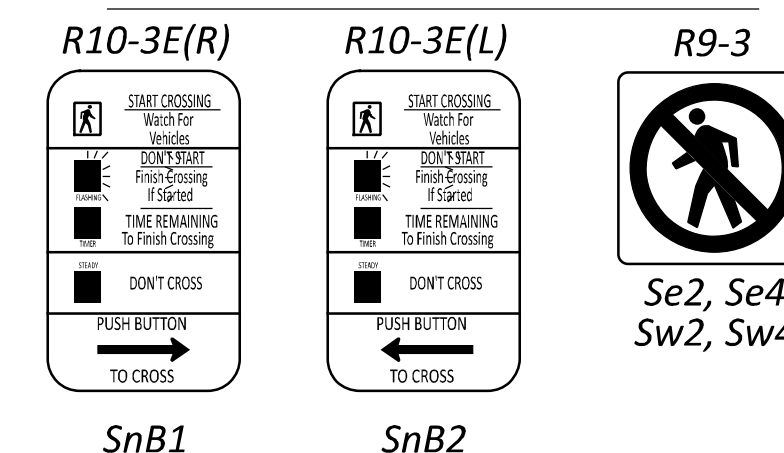
PEDESTRIAN SIGNAL

PEDESTRIAN HEADS (LED, COUNTDOWN, TYPE D2)

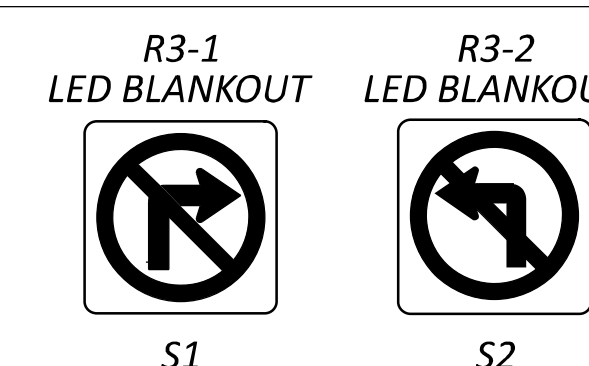


1P, 2P

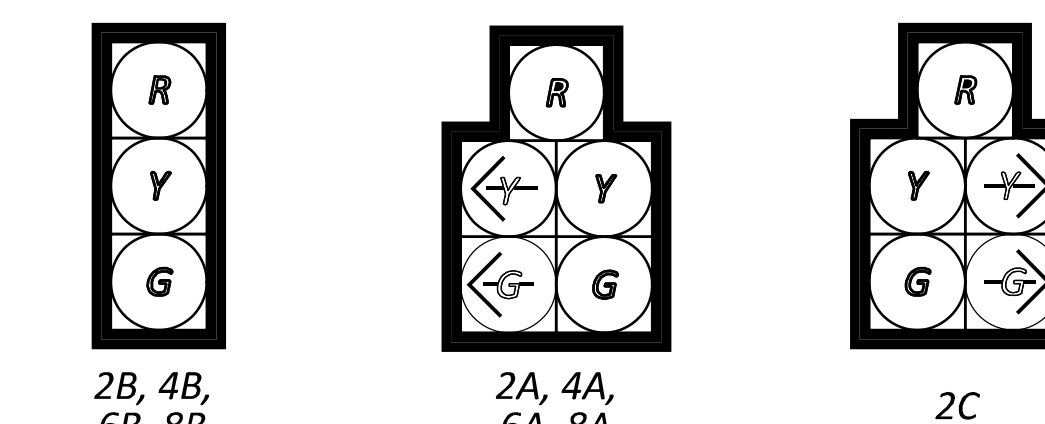
PEDESTRIAN SIGNS



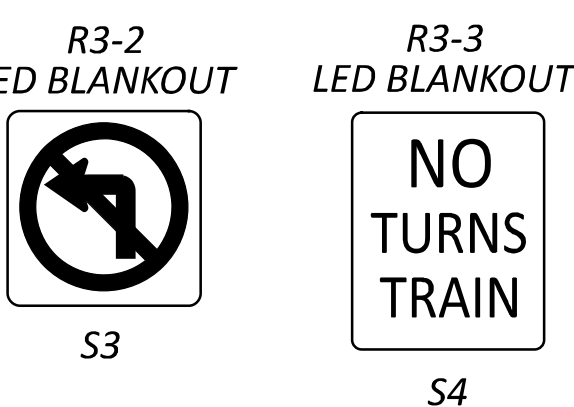
MAST ARM MOUNTED SIGNS



SIGNAL HEADS



DRIVEWAY PEDESTAL MOUNTED SIGNS



DRIVEWAY BLANKOUT NOTES:
SP-5, S3, S4, AND TRENCHING / CONDUIT FROM SP-5 TO PB-7 ARE PAID SEPARATELY. SEE SIGNAL GENERAL SUMMARY FOR DETAILS.

PUT-SR 65-01.08

MODEL: CLX_RW_S065 - Signals [Sheet] PAPER SIZE: 17x11 (in.) DATE: 5/16/2024 TIME: 1:59:17 PM USER: mstolzhus P:\Projects\ODOT\01600400\ODOT-PUT-065-01.02\4.0_Dwg\107760\000-Engineering\Signals\Sheet\107760_CP002.dgn

DESIGN AGENCY



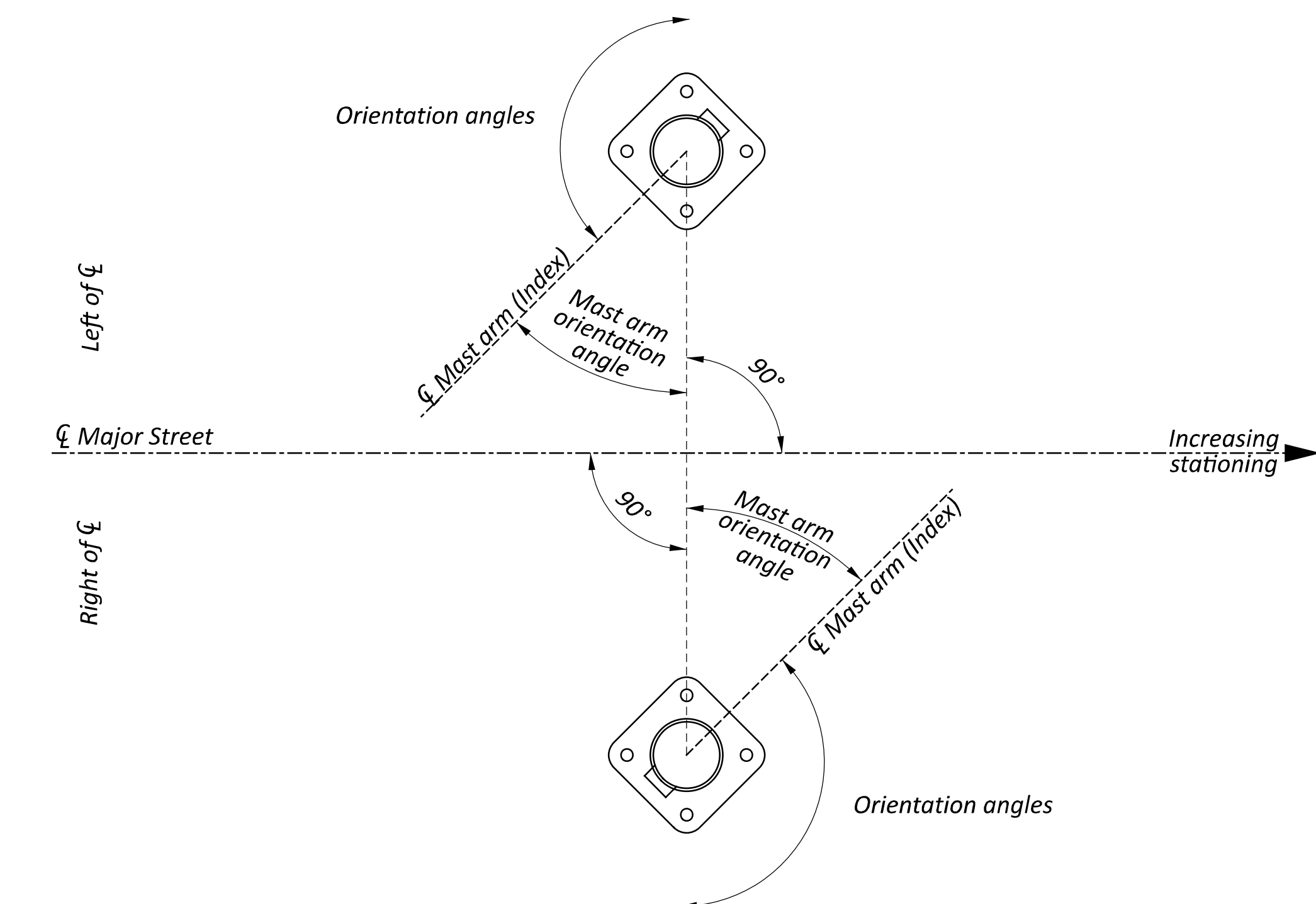
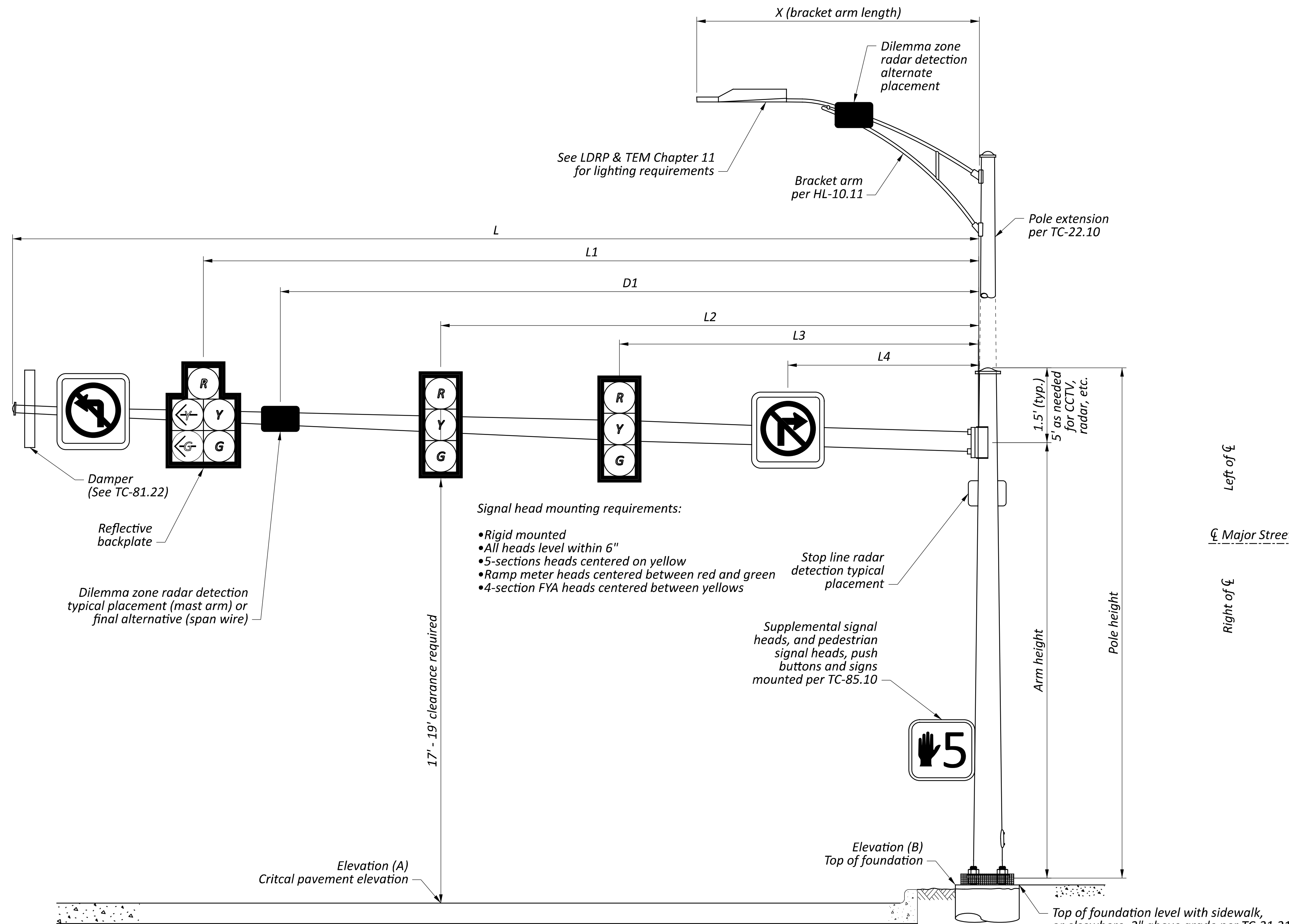
BERGMANN ARCHITECTS ENGINEERS PLANNERS

DESIGNER SJR

REVIEWER LAW 08/30/23

PROJECT ID 107760

SHEET TOTAL 59 72



SIGNAL SUPPORT ELEVATION

MAST ARM TABLE (TEM FIGURES 498-37 & 498-38)

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	D1	X	MAST ARM A ANGLE	MAST ARM B ANGLE	PEDESTRIAN SIGNAL	PEDESTRIAN PUSHBUTTON	POWER SERVICE	SIGNAL CABINET	BRACKET ARM	HANDHOLE	CABLE ENTRANCE 12" FROM TOP	
																									FT
SP-1	64+78	40' LT	765.82	764.75	TC-81.22	13	36	21	49	40	28	-	46	34	15	0	-	-	-	-	-	308	180	-	
SP-2	64+39	56' RT	766.59	766.23	TC-81.22	13	36	21	53	49	37	-	-	-	15	103	-	-	14	-	313	180	-		
SP-3	65+59	24' LT	765.25	765.97	TC-81.22	13	35	20	41	38	26	-	-	-	15	106	-	254	-	-	292	180	-		
SP-4	65+55	45' RT	766.40	766.52	TC-84.22	13	35	20	42	39	27	15	7	33	15	0	-	0	-	-	314	180	-		
SP-5	5+42	24' LT	768.60	768.77	TC-83.20	-	11	-	-	-	-	-	-	-	-	-	-	30	-	-	-	-	-		