

P2
Strain Pole, Type TC-81.10
Design NO. 10, Anchor Base
Sta. 1691+14.57, 39.5' RT.

P1
Strain Pole, Type TC-81.10
Design NO. 10, Anchor Base
Sta. 1691+24.93, 54.0' LT.

P3
Strain Pole, Type TC-81.10
Design NO. 10, Anchor Base
Sta. 1692+09.88, 53.5' LT.

P4
Strain Pole, Type TC-81.10
Design NO. 10, Anchor Base
Sta. 1692+13.77, 43' RT.

SPAN WIRE DIAGRAM

ITEM NUMBER	QUANTITY	UNIT	ITEM DESCRIPTION
625	537	FT	CONDUIT, 2", 725.04
625	537	FT	TRENCH, 24" DEEP
625	6	EACH	PULL BOX, 725.08, 18"
625	1	EACH	PULL BOX, 725.08, 24"
625	5	EACH	GROUND ROD
625	1	EACH	POWER SERVICE
630	3	EACH	SIGN HANGER ASSEMBLY, SPAN WIRE
630	22.5	SQ FT	SIGN, FLAT SHEET
632	6	EACH	VEHICULAR SIGNAL HEAD WITH LED LAMP UNITS, 3 SECTION, 12" LENS, 1-WAY, AS PER PLAN
632	2	EACH	VEHICULAR SIGNAL HEAD WITH LED LAMP UNITS, 5 SECTION, 12" LENS, 1-WAY, AS PER PLAN
632	4	EACH	PEDESTRIAN SIGNAL HEAD WITH LED LAMP UNITS, TYPE A2, AS PER PLAN
632	8	EACH	COVERING OF VEHICULAR SIGNAL HEAD
632	4	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD
632	2	EACH	PEDESTRIAN PUSHBUTTON
632	8	EACH	DETECTOR LOOP
632	6	EACH	LOOP DETECTOR UNIT, 2 CHANNEL
632	345	FT	MESSENGER WIRE, 7 STRAND, $\frac{3}{16}$ " DIAMETER WITH ACCESSORIES
632	1482	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	4	EACH	STRAIN POLE FOUNDATION
632	1508	FT	LOOP DETECTOR LEAD-IN CABLE
632	80	FT	POWER CABLE, 2 CONDUCTOR, NO. 6 AWG
632	4	EACH	STRAIN POLE, TYPE TC-81.10, DESIGN 10
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION AND DISPOSAL
633	1	EACH	CONTROLLER UNIT, TYPE 170E, WITH CABINET, TYPE 332
633	1	EACH	CABINET RISER
633	1	EACH	CABINET FOUNDATION, AS PER PLAN
633	1	EACH	CONTROLLER WORK PAD, AS PER PLAN

HAM-50-31.95

PROPOSED SIGNAL DETAILS

CALCULATED

SRD

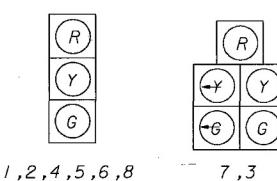
CHECKED

JAA

135
189

PROPOSED SIGNAL HEAD ASSEMBLY

SIGNIN

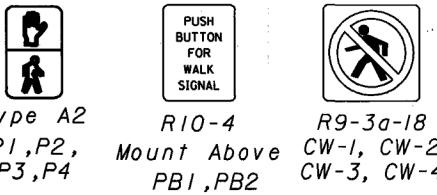


1,2,4,5,6,8

7,3

NOTE: ALL SIGNAL HEADS SHALL BE 12"

**PEDESTRIAN
SIGNAL HEADS**



Type A2

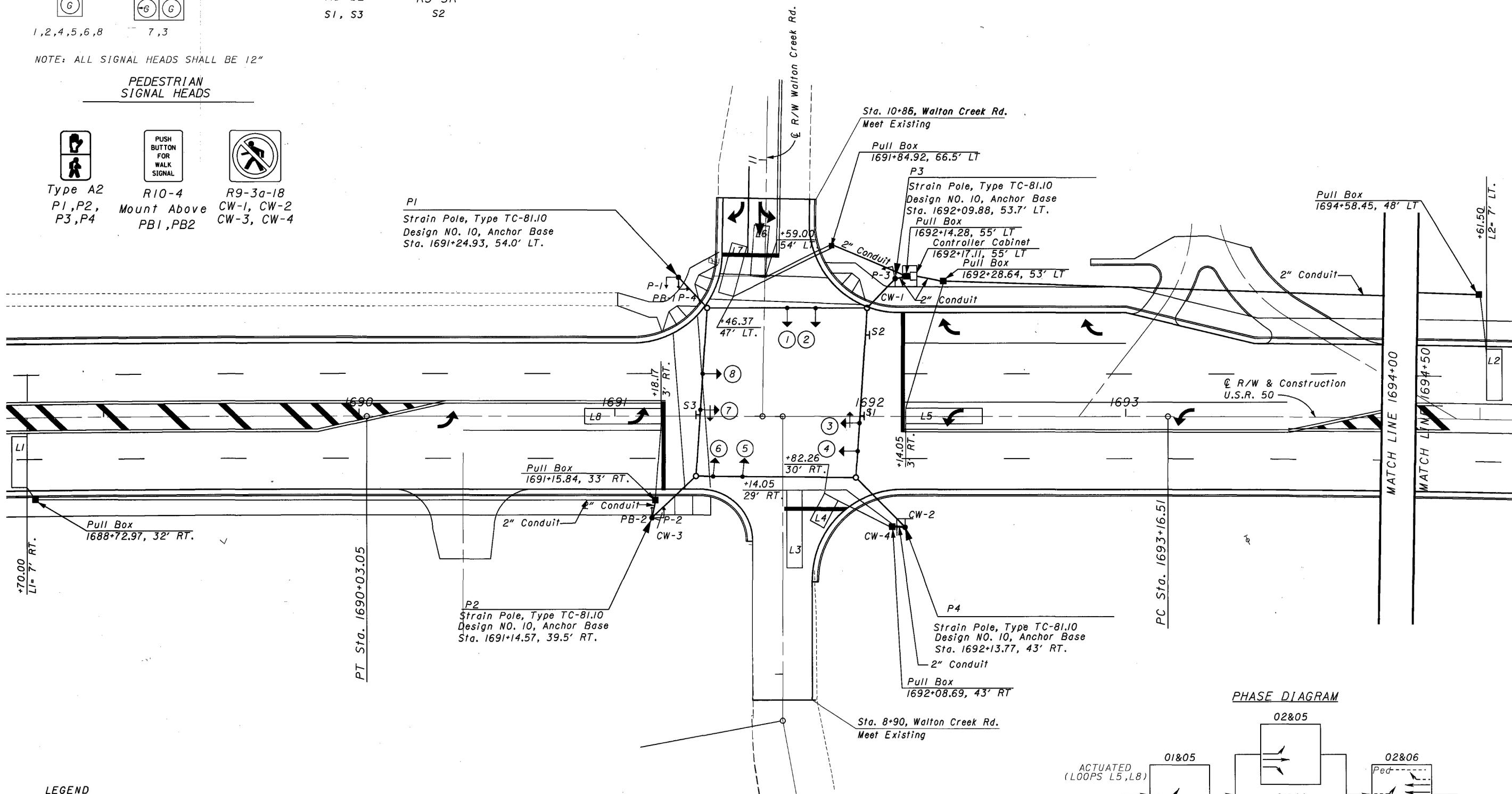
R10-4
Mount Abc

R9-3a-18
e CW-1, CW-2
CW-3 CW-4

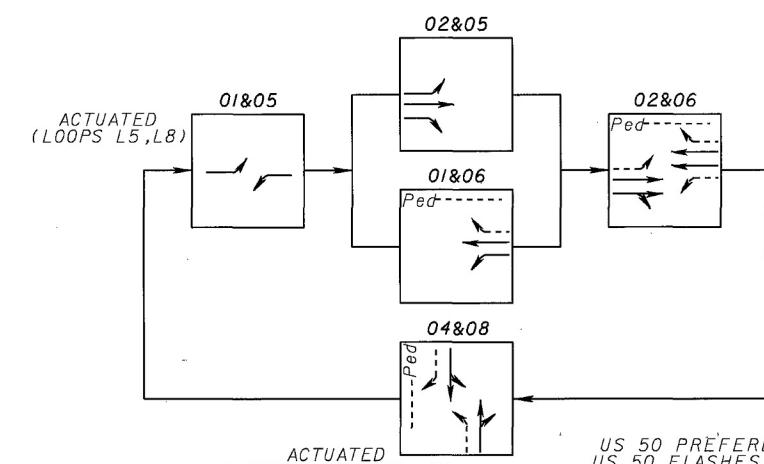
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Sta. 1691+24.93, 54.0' LT.

No

The Power Source For The Existing Signal Operations is Obtained Through an Existing Utility Pole at The Northeast Quadrant of The Intersection. Power Source For The Proposed Signal Operations is Intended to be Maintained From The Same Pole. The Utility Pole is to be Relocated by Cinergy, The Contractor Shall Coordinated With Cinergy to Obtain Power Source For The Signal Operations.



PHASE DIAGRAM



ACTUATED (LOOPS L3,L4,L6,L7) US 50 PREFERENTIAL
US 50 FLASHES AMBER WALTON CREEK ROAD FLASHES RED

**TRAFFIC SIGNAL PLAN
U.S.R. 50 AND WALTON CREEK**

WILLIAM F O 21 OF

DETECTOR ASSIGNMENTS

DET #	LOCATION	LOOP SIZE*	PHASE	AMP #	URNS	MODE	DELAY TIME (SECS)
L1	EB THRU	6'x20'	Ø2	1	3	PRESENCE	
L2	WB THRU	6'x20'	Ø4	2	3	PRESENCE	
L3	NB	6'x30'	Ø4	4	3	PRESENCE	3
L4	NB RT	6'x12'	Ø4	5	3	PRESENCE	10
L5	WB LT	6'x30'	Ø5	6	3	PRESENCE	
L6	SB	6'x30'	Ø8	6	3	PRESENCE	3
L7	SB RT	6'x30'	Ø8	6	3	PRESENCE	10
L8	EB LT	6'x30'	Ø8	6	3	PRESENCE	10

POLE ORIENTATION DATA CHART

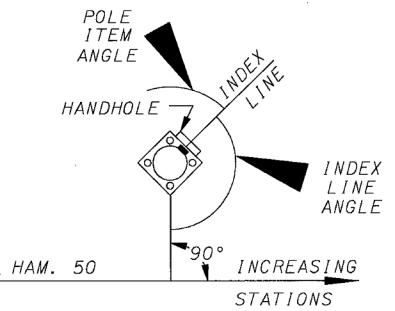
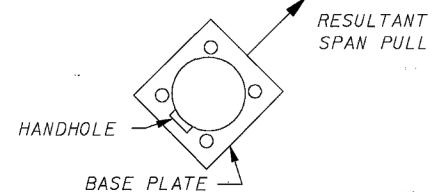
POLE	TC-81.10 DESIGN NO.	STATION & OFFSET	FOUNDATION ELEVATION	POLE HEIGHT	INDEX LINE ANGLE	RESULTANT SPAN PULL	ORIENTATION ANGLE (DEG) FROM INDEX LINE				
							HAND HOLE	PED. SIGNAL	PUSH BUTTON	CAPPED 2" ELLS	POWER
P1	10	1691+24.93 - 54.0' LT	497.52	32'	135°	180°	0°	135°/225°	225°	0°	
P2	10	1691+14.57 - 39.5' RT	498.47	32'	225°	180°	0°	225°	225°	0°	
P3	10	1692+09.88 - 53.5' LT	497.61	32'	225°	180°	0°	220°			
P4	10	1692+13.77 - 43.0' RT	498.44	32'	135°	180°	0°				

ALL WEATHERHEADS SHALL BE 2" EXCEPT FOR THE 3" SIGNAL WEATHERHEAD ON POLE 'P2'.

** ELEVATIONS SHALL BE STAKED AND APPROVED BY THE DIVISION OF TRAFFIC PRIOR TO FOUNDATION EXCAVATION.

* TO BE DETERMINED WHEN LOCATION OF THE UTILITY POLE IS ESTABLISHED.

HANDHOLE & BOLT HOLE POSITIONING



ROTATE POLE ACCORDING TO

RESULTANT SPAN PULL

ROTATE POLE FOUNDATION AS SHOWN

ON THE INTERSECTION LAYOUT SHEET

NOTES:

1. ALL ANGLES MEASURED CLOCKWISE

2. INDEX LINE GOES THROUGH CENTER
OF HANDHOLE

ACTUATED TRAFFIC SIGNAL CONTROLLER TIMING CHART

START UP		DUAL ENTRY				
START IN: Y/R FLASH — OR ALL RED —		REST IN RED: RING 1 —; RING 2 —				
TIME FOR FLASH OR ALL RED:		OVERLAP				
FIRST PHASE(S): #		A				
COLOR DISPLAYED: GREEN —; YELLOW —		B				
INTERVAL OR FEATURE		C				
INTERSECTION MOVEMENT		D				
MINIMUM GREEN (INITIAL) (SEC.)		7	20		20	7
ADDED INITIAL *(SEC./ACTUATION)						
PASSAGE TIME (PRESET GAP) (SEC.)		5	4		6	4
TIME BEFORE REDUCTION *(SEC.)						
MINIMUM GAP *(SEC.)						
TIME TO REDUCE *(SEC.)						
MAXIMUM GREEN I (SEC.)		20	40		20	40
MAXIMUM GREEN II (SEC.)						
YELLOW CHANGE (SEC.)		4	4		4	4
ALL RED CLEARANCE (SEC.)		2	2		2	2
WALK (SEC.)		7			7	7
PEDESTRIAN CLEARANCE (SEC.)		10			10	15
RECALL	MAXIMUM (ON/OFF)					
	MINIMUM (ON/OFF)	ON			ON	
	PEDESTRIAN (ON/OFF)					
MEMORY (ON/OFF)						
CALL TO NON-ACTUATED		NO. 1				
NO. 2						

* VOLUME DENSITY CONTROLS