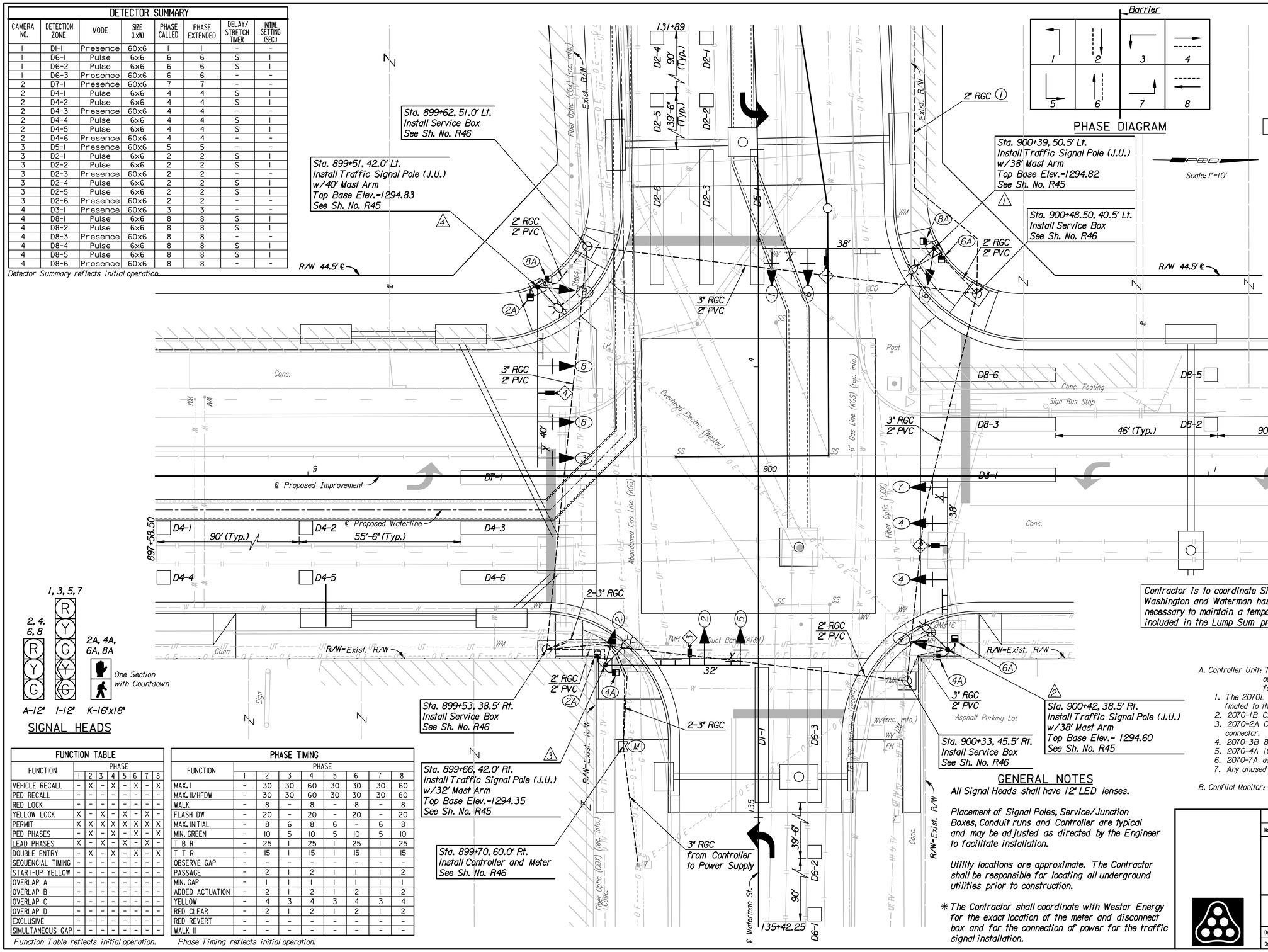
DETECTOR SUMMARY

CAMERA NO.	DETECTION ZONE	MODE	SIZE (LxW)	PHASE CALLED	PHASE EXTENDED	DELAY/ STRETCH TIMER	INITIAL SETTING (SEC.)
1	DI-1	Presence	60x6	1	1	-	-
1	D6-1	Pulse	6x6	6	6	S	1
1	D6-2	Pulse	6x6	6	6	S	1
1	D6-3	Presence	60x6	6	6	-	-
2	D7-1	Presence	60x6	7	7	-	-
2	D4-1	Pulse	6x6	4	4	S	1
2	D4-2	Pulse	6x6	4	4	S	1
2	D4-3	Presence	60x6	4	4	-	-
2	D4-4	Pulse	6x6	4	4	S	1
2	D4-5	Pulse	6x6	4	4	S	1
2	D4-6	Presence	60x6	4	4	-	-
3	D5-1	Presence	60x6	5	5	-	-
3	D2-1	Pulse	6x6	2	2	S	1
3	D2-2	Pulse	6x6	2	2	S	1
3	D2-3	Presence	60x6	2	2	-	-
3	D2-4	Pulse	6x6	2	2	S	1
3	D2-5	Pulse	6x6	2	2	S	1
3	D2-6	Presence	60x6	2	2	-	-
4	D3-1	Presence	60x6	3	3	-	-
4	D8-1	Pulse	6x6	8	8	S	1
4	D8-2	Pulse	6x6	8	8	S	1
4	D8-3	Presence	60x6	8	8	-	-
4	D8-4	Pulse	6x6	8	8	S	1
4	D8-5	Pulse	6x6	8	8	S	1
4	D8-6	Presence	60x6	8	8	-	-

Detector Summary reflects initial operation.



LEGEND

- Traffic Signal Pole with Mast Arm
- Traffic Signal Head
- Traffic Signal Head with Backplate
- Traffic Signal Camera
- Pedestrian Signal Head
- Controller
- D(Phase)-# Detector Zone
- Service Box (Pre-Fab)
- RIO-12 Sign
- Rigid Galvanized Conduit (RGC)
- (2) Signal Phase
- Signal Pole Reference Number
- Traffic Signal Camera Reference Number
- Street Name Sign
- Luminaire with Arm
- (M) Meter and Enclosure

(1) 2" Conduit for Traffic Signal Interconnect. Connect to existing Conduit at Sta. 132+50, 34' Lt.

(2) 2" PVC Conduit w/pull wire for street light circuit.

1, 3, 5, 7 — R Y G

2, 4, 6, 8 — R Y G

2A, 4A, 6A, 8A — One Section with Countdown

A-12" I-12" K-16"x18"

SIGNAL HEADS

FUNCTION TABLE

FUNCTION	PHASE 1	2	3	4	5	6	7	8
VEHICLE RECALL	-	X	-	X	-	X	-	X
PED RECALL	-	-	-	-	-	-	-	-
RED LOCK	-	-	-	-	-	-	-	-
YELLOW LOCK	X	-	X	-	X	-	X	-
PERMIT	X	X	X	X	X	X	X	X
PED PHASES	-	X	-	X	-	X	-	X
LEAD PHASES	X	-	X	-	X	-	X	-
DOUBLE ENTRY	-	X	-	X	-	X	-	X
SEQUENCIAL TIMING	-	-	-	-	-	-	-	-
START-UP YELLOW	-	-	-	-	-	-	-	-
OVERLAP A	-	-	-	-	-	-	-	-
OVERLAP B	-	-	-	-	-	-	-	-
OVERLAP C	-	-	-	-	-	-	-	-
OVERLAP D	-	-	-	-	-	-	-	-
EXCLUSIVE	-	-	-	-	-	-	-	-
SIMULTANEOUS GAP	-	-	-	-	-	-	-	-

Function Table reflects initial operation.

PHASE TIMING

FUNCTION	PHASE 1	2	3	4	5	6	7	8
MAX. I	-	30	30	60	30	30	30	60
MAX. II/HFDW	-	30	30	60	30	30	30	80
WALK	-	8	-	8	-	8	-	8
FLASH DW	-	20	-	20	-	20	-	20
MAX. INITIAL	-	8	6	8	6	-	6	8
MIN. GREEN	-	10	5	10	5	10	5	10
T B R	-	25	1	25	1	25	1	25
T T R	-	15	1	15	1	15	1	15
OBSERVE GAP	-	-	-	-	-	-	-	-
PASSAGE	-	2	1	2	1	1	1	2
MIN. GAP	-	1	1	1	1	1	1	1
ADDED ACTUATION	-	2	1	2	1	2	1	2
YELLOW	-	4	3	4	3	4	3	4
RED CLEAR	-	2	1	2	1	2	1	2
RED REVERT	-	-	-	-	-	-	-	-
WALK II	-	-	-	-	-	-	-	-

Phase Timing reflects initial operation.

Contractor is to coordinate Signal Installation so the intersection of Washington and Waterman has a working signal at all times. Work necessary to maintain a temporary signal during construction shall be included in the Lump Sum price for "Temporary Traffic Signal Installation".

EQUIPMENT SPECIFICATIONS
2070 CONTROLLER

A. Controller Unit: The 2070L controller supplied shall meet the requirements outlined in CalTrans TEES 2002 (latest revision), and the following requirements:

1. The 2070L controller shall have a 19" EIA rack mountable chassis (mated to the I70 cabinet).
2. 2070-1B CPU module with RJ-45 Ethernet port.
3. 2070-2A CI field I/O module for compatibility with CalTrans style CI connector.
4. 2070-3B 8X40 front panel with LCD display.
5. 2070-4A 10 amp power supply.
6. 2070-7A asynchronous serial communications module (RS-232).
7. Any unused slot position shall have a cover plate.

B. Conflict Monitor: The Conflict Monitor supplied shall be 2010 ECL conflict monitor.

GENERAL NOTES

All Signal Heads shall have 12" LED lenses.

Placement of Signal Poles, Service/Junction Boxes, Conduit runs and Controller are typical and may be adjusted as directed by the Engineer to facilitate installation.

Utility locations are approximate. The Contractor shall be responsible for locating all underground utilities prior to construction.

✳ The Contractor shall coordinate with Westar Energy for the exact location of the meter and disconnect box and for the connection of power for the traffic signal installation.

No.	Revision	By	Date

WASHINGTON STREET

TRAFFIC SIGNAL PLAN
WASHINGTON AND WATERMAN

JAMES L. ARMOUR, P.E.-CITY ENGINEER
CITY OF WICHITA PROJECT NO. 472-84657

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	BER	Job No.	05493-8	Sht. R43 of R73
Drawn by	DRP	Date	Dec., 2008	

Plotted By: akl Date: 12/29/2008 3:34:40 PM
FILE: I:\2005\05493-8\Signal\05493-008-SignalWashington.dgn