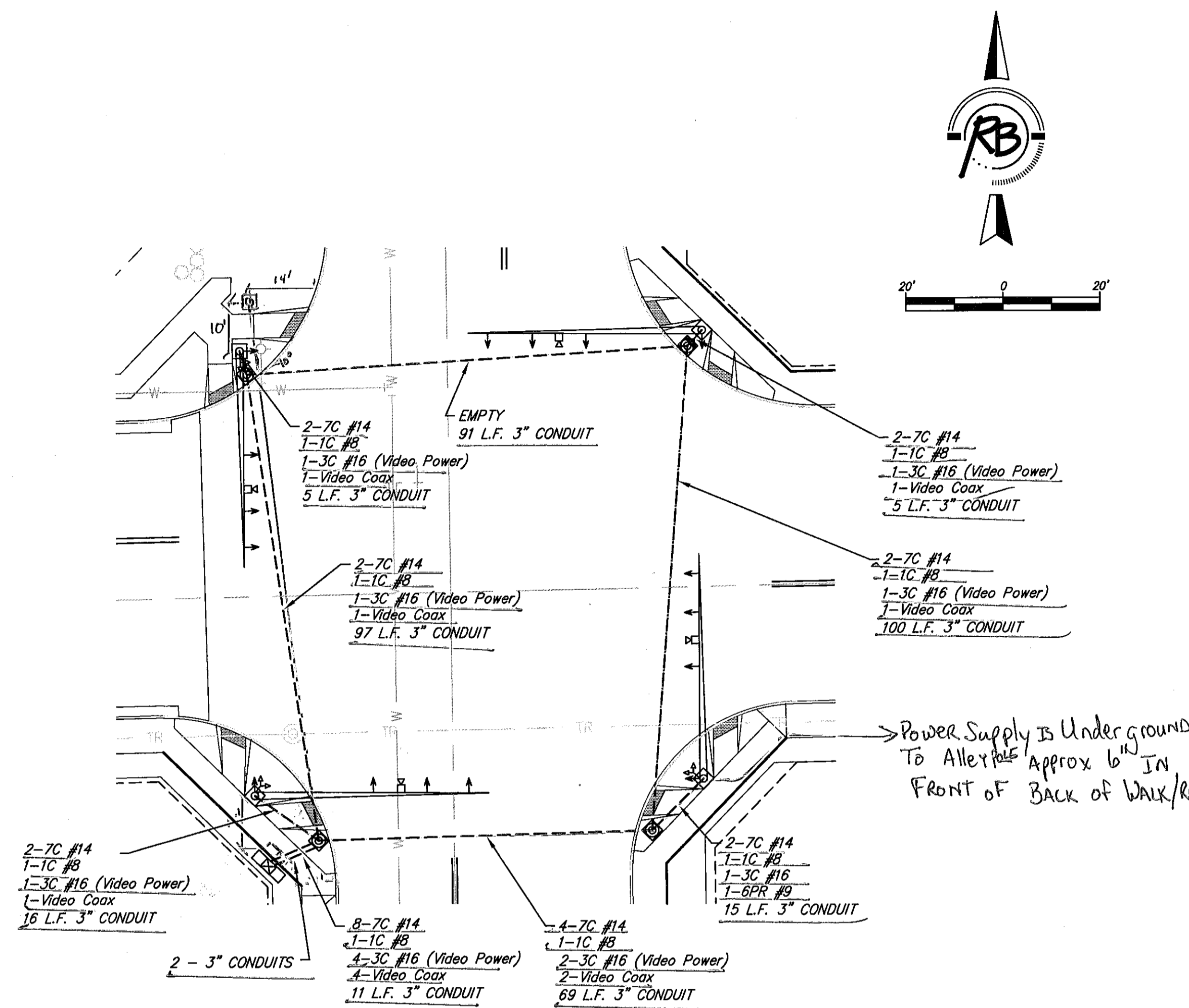


TEMPORARY SIGNAL NOTES:

- CONTRACTOR SHALL INSTALL AND MAINTAIN A TEMPORARY SIGNAL SYSTEM DURING CONSTRUCTION, TO INCLUDE (3) 4-WAY 3-SECTION HEADS, MOUNTED ON A SPAN WIRE CABLE.
- THE CONTRACTOR TO NOTIFY SIGNAL SUPERVISOR, 268-4033, 24 HOURS IN ADVANCE TO COORDINATE REMOVAL OF EXISTING CABINET AND CONTROLLER AND INSTALLATION OF CONTRACTOR'S CABINET AND CONTROLLER.
- ALL WIRING INSTALLED SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE AS WELL AS LOCAL ORDINANCES AND REQUIREMENTS.
- THE OPERATION AND MAINTENANCE OF THE SIGNAL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL SIGNAL INDICATIONS, CLEARANCES, AND SEQUENCES SHALL BE IN ACCORDANCE WITH THE CURRENT M.U.T.C.D.
- THE TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED IN THE BID ITEM "TRAFFIC CONTROL LUMP SUM".
- THE TEMPORARY TRAFFIC SIGNAL SHALL BE SWITCHED ON DURING AN OFF-PEAK HOUR. WHEN SWITCHING SIGNALS, FLAG MEN WILL BE REQUIRED.
- THE TERMINAL BLOCKS SHALL BE IN A WEATHERPROOF ENCLOSURE.
- ALL NECESSARY SIGNAL HEAD, CONTROLLER AND POLE RELOCATIONS, WHETHER SPECIFICALLY MENTIONED OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- TRAFFIC SIGNAL HEADS WHICH ARE IN PLACE AND NOT IN USE DURING A SPECIFIC STEP SHALL BE REMOVED, OR COVERED WITH A OPAQUE MATERIAL.
- SIGNAL PHASING AND TIMING SHALL BE SET AS DIRECTED AND APPROVED BY THE ENGINEER-IN-CHARGE OF CONSTRUCTION.
- EACH INTERSECTION SHALL HAVE A SIGNAL CONTROLLER CAPABLE OF A STANDARD EIGHT OPERATION, WITH GREEN INTERVALS SETABLE FROM 0 TO 255 SECONDS.
- THE TRAFFIC SIGNAL CONTROLLER MUST BE CAPABLE OF STORING A MINIMUM OF THREE SEPARATE PHASING/TIMING PLANS, WHICH CAN BE SELECTED ON A TIME-OF-DAY BASIS.
- IN CASE OF SIGNAL MALFUNCTION, THE CONTRACTOR MUST RESPOND WITHIN ONE HOUR.



WIRING DIAGRAM

NOTES:

- ALL TRAFFIC SIGNAL EQUIPMENT AND WIRING SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF WICHITA SPECIFICATIONS.
- ALL EXISTING TRAFFIC CONTROL EQUIPMENT SHALL BE REMOVED AND REPLACED. ALL EXISTING EQUIPMENT SHALL BE STOCK PILED AT THE CENTRAL MAINTENANCE FACILITY, 1801 S. McCLEAN.
- TRAFFIC SIGNAL EQUIPMENT (POLES, PEDESTALS & CABINET) SHALL BE BLACK PER CITY OF WICHITA SPECIFICATIONS.

MATERIALS TABLE

ITEM	UNIT	QUANTITY
CONCRETE CONTROLLER PAD	EA.	1
CONCRETE FOOTING - POLE	EA.	4
TRAFFIC SIGNAL POLE	EA.	4
TRAFFIC SIGNAL PEDESTAL	EA.	1
SERVICE BOX	EA.	4
GROUND ROD & CLAMP	EA.	5
TRAFFIC SIGNAL MAST ARM (46')	EA.	2
TRAFFIC SIGNAL MAST ARM (48')	EA.	2
TRAFFIC SIGNAL HEAD - 12" (TYPE A) W/MOUNTING BRACKET	EA.	12
TRAFFIC SIGNAL HEAD - 12" (TYPE I) W/MOUNTING BRACKET	EA.	4
PEDESTRIAN SIGNAL - 12" (TYPE R) W/MOUNTING BRACKET	EA.	8
PEDESTRIAN PUSHBUTTON W/SIGN	EA.	8
L.E.D. UNIT	EA.	64
ENTRANCE HEAD	EA.	1
CIRCUIT BREAKER & BOX	EA.	1
BACK PLATE FOR SIGNAL HEAD (TYPE A)	EA.	8
BACK PLATE FOR SIGNAL HEAD (TYPE I)	EA.	4
PAD MOUNTED CABINET & CONTROLLER SYSTEM-TYPE 2070 (SEE NOTE)		
MODEL 2070 CONTROLLER	EA.	CITY
MODEL 336A CABINET W/ALL ACCESSORIES	EA.	1
MODEL 430 TRANSFER RELAYS	EA.	1
MODEL 204 FLASHER UNIT	EA.	4
SURGE PROTECTOR	EA.	2
MODEL 242 TWO CHANNEL ISOLATOR	EA.	1
MODEL 200 SWITCH PACK	EA.	1
MULTI-CONDUCTOR CABLE NO. 14 AWG 2/c (Pedestrian Pushbuttons)	LF	40
MULTI-CONDUCTOR CABLE NO. 14 AWG 5/c	LF	504
MULTI-CONDUCTOR CABLE NO. 14 AWG 7/c	LF	268
STANDARD NO. 8 AWG 1/c (TYPE THIN) (GROUND)	LF	417
STANDARD NO. 6 AWG 1/c (TYPE THIN) (POWER)	LF	250
CONDUIT 3"	LF	420
STREET NAME SIGN W/MOUNTING HARDWARE	EA.	4
CAMERA HOUSING	EA.	4
VIDEO DETECTION CAMERA AND MOUNTING HARDWARE (RISER BRACKET)	EA.	4
VIDEO DETECTION PROCESSOR UNIT	EA.	1
VIDEO POWER CABLE NO. 16 AWG 3/c	LF	650
VIDEO CABLE 75 OHM COAXIAL (BELDON #B281)	LF	650
T.V. MONITOR	EA.	1
CAMERA CHARGED COUPLING DEVICE (ITERIS VANTAGE OR APPROVED EQUAL)	EA.	4

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL EQUIPMENT NECESSARY FOR THE COMPLETE AND SATISFACTORY OPERATION OF THE TRAFFIC SIGNAL WHETHER SAID EQUIPMENT IS SPECIFICALLY MENTIONED OR NOT. THE QUANTITIES SHOWN ARE FOR INFORMATION ONLY.

**EQUIPMENT SPECIFICATIONS
2070 CONTROLLER**

- A. Controller Units: The 2070L controllers supplied shall meet requirements outlined in CalTrans TEES 2002 (latest revision), and the following requirements:
- The 2070L controllers shall have a 19" EIA rack mountable chassis (mated to the 170 cabinet). Controllers shall be Eagle or Econolite
 - 2070-1B CPU module with RJ-45 Ethernet port.
 - 2070-2A C1 field I/O module for compatibility with CalTrans style C1 connector.
 - 2070-3B 8X40 front panel with LCD display.
 - 2070-4A 10 amp power supply
 - 2070-7A asynchronous serial communications module (RS-232)
 - Any unused slot position shall have a cover plate.

**HARRY & BROADWAY PAVING IMPROVEMENTS
SIGNAL WIRING PLAN
WICHITA, KANSAS**

Ruggles & Bohm, P.A.
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DESIGN: KWL
DRAWN: KWL
REVIEW: KWL
UTILITY: KWL

DATE: Apr. 16, 2012

PROJECT NUMBER: .

TRAFFIC SIGNAL PLANS {Wiring}

SHEET 28 OF 59