Note: The model 170 controller and latest Revision of W4IKS software will be furnished and installed by the contractor. The contractor shall be responsible for furnishing and installing the controller cabinet and concrete base, and for all equipment necessary for the complete and satisfactory operation of the traffic signal, whether said equipment is specifically mentioned or not.

WIRING NOTES

The contractor shall furnish and install all loop wire, shielded loop lead-in wire, power supply cable, and traffic signal cable for the complete operation of the traffic signal. No splices will be allowed outside pole bases, service boxes, or junction boxes.

Each separate mast arm-mounted signal head shall have one continuous run of multi-conductor cable from the pole base to the signal head. A one-conductor #8 AWG (green) shall be installed to connect all grounding lugs in pole bases and controller base.

One, seven-conductor cable shall be run from the controller to each pole supporting a mast arm-mounted vehicle indication. The following color code shall be used:

black	yellow arrow
white	common
red	red ball
green	green ball
orange	yellow ball
blue	green arrow
white/black	unused spare

One, seven-conductor cable shall be run from the controller to each pole supporting pedestrian indications. The following color code shall be used:

white	common	
red	don't walk	ph 2,6
green	walk	ph 2,6
orange	pushbutton	ph 2,6
white/black	don't walk	ph 4,8
blue	walk	ph 4,8
black	pushbutton	ph 4,8

One, seven-conductor cable shall be run from each 5-section and 4-section signal head to the pole base. One, five-conductor cable shall be run from each 3-section thru signal head to the pole base.

One, 5-conductor cable shall be run from each 2-way side-of-pole pedestrian signal to the pole base. The following color code shall be used:

red	don't walk	ph 2,6
green	walk	ph 2,6
orange	don't walk	ph 4,8
black	walk	ph 4,8
white	common	

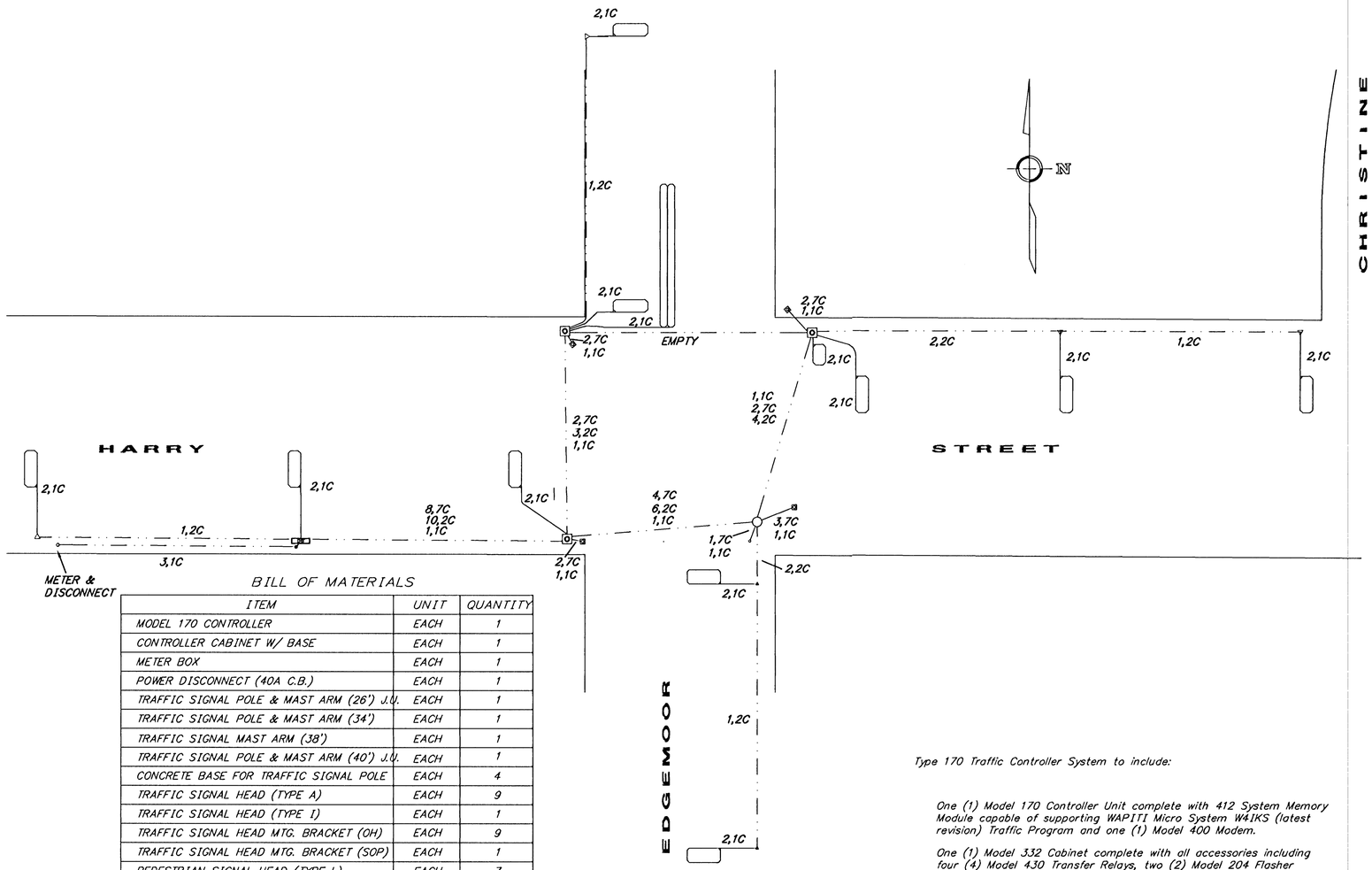
SIGNAL POLE SUMMARY

STA. (HARRY)	LOCATION	TYPE
5+53.6	44' Lt.	20' STEEL W/ 34' M.A.
5+55	43' Rt.	20' STEEL W/ 38' M.A.
6+45.2	53.4' Lt.	35' J.U. W/ 40' M.A.
6+48.0	30.0' Rt.	35' J.U. W/ 26' M.A.
6+29.5	44.0' Rt.	EXISTING PEDESTAL

SUMMARY OF SERVICE AND JUNCTION BOXES

SERVICE BOXES			JUNCTION BOXES	
STA./STREET	LOCATION	TOP ELEV.	STA./STREET	LOCATION
5+46.5 HARRY	43.4' Rt.	145.50	3+50.0 HARRY	43.1' Rt.
5+46 HARRY	42.0' Lt.	146.24	7+60.0 HARRY	43.5' Lt.
6+32.5 HARRY	36.0' Rt.	*	8+61.0 HARRY	43.5' Lt.
6+55.6 HARRY	43.4' Lt.	146.55	1+27.0 EDGEMOOR	* 32.0' Rt.
			2+35.1 EDGEMOOR	32.4' Rt.
			4+67.9 EDGEMOOR	39.3' Lt.

* EXISTING



BILL OF MATERIALS

ITEM	UNIT	QUANTITY
MODEL 170 CONTROLLER	EACH	1
CONTROLLER CABINET W/ BASE	EACH	1
METER BOX	EACH	1
POWER DISCONNECT (40A C.B.)	EACH	1
TRAFFIC SIGNAL POLE & MAST ARM (26') J.U.	EACH	1
TRAFFIC SIGNAL POLE & MAST ARM (34')	EACH	1
TRAFFIC SIGNAL MAST ARM (38')	EACH	1
TRAFFIC SIGNAL POLE & MAST ARM (40') J.U.	EACH	1
CONCRETE BASE FOR TRAFFIC SIGNAL POLE	EACH	4
TRAFFIC SIGNAL HEAD (TYPE A)	EACH	9
TRAFFIC SIGNAL HEAD (TYPE I)	EACH	1
TRAFFIC SIGNAL HEAD MTG. BRACKET (OH)	EACH	9
TRAFFIC SIGNAL HEAD MTG. BRACKET (SOP)	EACH	1
PEDESTRIAN SIGNAL HEAD (TYPE L)	EACH	7
PEDESTRIAN SIGNAL HEAD MTG. BRACKET (TYPE 1)	EACH	1
PEDESTRIAN SIGNAL HEAD MTG. BRACKET (TYPE 2)	EACH	3
PEDESTRIAN PUSH BUTTON AND SIGN	EACH	7
TRAFFIC SIGNAL LAMP 135W	EACH	32
TRAFFIC SIGNAL LAMP 67W	EACH	14
GROUND ROD AND CLAMP	EACH	6
SERVICE BOX	EACH	3
JUNCTION BOX	EACH	5
4" R.G.C. CONDUIT	L.F.	120
3" R.G.C. CONDUIT	L.F.	400
2" R.G.C. CONDUIT	L.F.	40
1 1/4" R.G.C. CONDUIT	L.F.	240
3/4" R.G.C. CONDUIT	L.F.	650
MULTI-CONDUCTOR CABLE (7C-#14 AWG)	L.F.	1740
MULTI-CONDUCTOR CABLE (5C-#14 AWG)	L.F.	648
POWER WIRE (THHN #6 AWG)	L.F.	353
GROUND WIRE (THHN #8 AWG)	L.F.	531
SHIELDED LOOP FEEDER CABLE (2C)	L.F.	2950
LOOP DETECTOR WIRE (THHN #14 AWG)	L.F.	2840

Type 170 Traffic Controller System to include:

One (1) Model 170 Controller Unit complete with 412 System Memory Module capable of supporting WAPITI Micro System W4IKS (latest revision) Traffic Program and one (1) Model 400 Modem.

One (1) Model 332 Cabinet complete with all accessories including four (4) Model 430 Transfer Relays, two (2) Model 204 Flasher Units and one (1) Model 210pc Conflict Monitor.

Ten (10) Model C422T Two Channel Loop Detector Sensor Units

Seven (7) Model 200 Switch Packs

Three (3) Model 242 Two Channel Isolators

REVISED 8-01-95

WIRING & QUANTITIES

BAUGHMAN COMPANY P. A.
ENGINEERING & SURVEYING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER	SHEET
468-82138 & 472-82668	25 OF 38

DESIGN	DRAWN	UTIL. CHECK'D	DATE	SCALE
T.C.R.	K.L.K.	T.C.R.	10-28-92	NONE