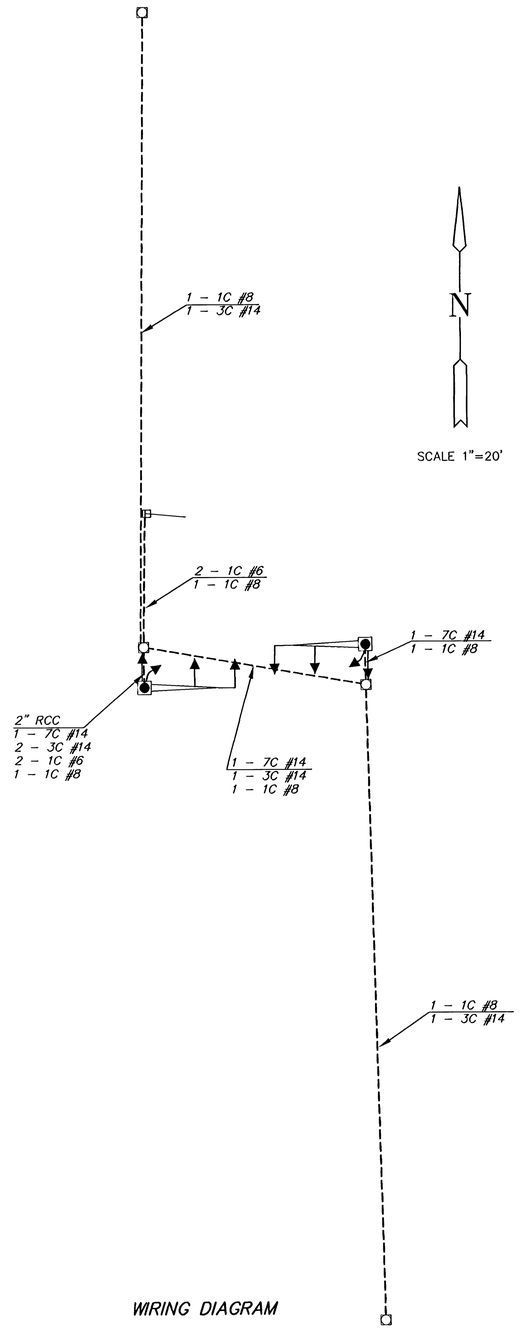
**BILL OF MATERIALS** (FOR INFORMATION ONLY)

| ITEM | UNIT | QUANTITY |
|---|---|---|
| * MODEL CONTROLLER | EACH | 1 |
| * CONTROLLER CABINET | EACH | 1 |
| METER BOX | EACH | 1 |
| POWER DISCONNECT W/BREAKER | EACH | X |
| * TRAFFIC SIGNAL POLE & MAST ARM (27') | EACH | 2 |
| CONCRETE BASE FOR SIGNAL POLE | EACH | 2 |
| 15' PEDESTAL W/BASE | EACH | 2 |
| PEDESTRIAN SIGNAL LAMPS LED | EACH | 6 |
| TRAFFIC SIGNAL HEAD (TYPE A) W/BRACKETS | EACH | 2 |
| PEDESTRIAN SIGNAL HEAD (TYPE K) W/BRACKETS 12" COMBINATION | EACH | 2 |
| PEDESTRIAN PUSHBUTTON W/SIGN (ONE PC) | EACH | 22 |
| TRAFFIC SIGNAL LAMP | EACH | 5 |
| GROUND ROD AND CLAMP | EACH | 2 |
| SERVICE BOX | L.F. | 70 |
| 3" RGC CONDUIT | L.F. | 430 |
| 2" RGC CONDUIT | L.F. | 40 |
| 1" RGC CONDUIT | L.F. | 469 |
| MULTI-CONDUCTOR CABLE 3C #14 AWG | L.F. | 92 |
| MULTI-CONDUCTOR CABLE 7C #14 AWG | L.F. | 509 |
| GROUND WIRE (THHN #8 AWG) | L.F. | 104 |
| POWER SUPPLY WIRE (THHN #6 AWG) | | |

* CITY OF WICHITA PROVIDING. CONTACT TERRY NICHOLAS, 268-4033 FOR PICKUP. CONTRACTOR WILL BE RESPONSIBLE FOR ANCHOR SYSTEM.




WIRING DIAGRAM

* THE CONTROLLER AND CABINET SHALL INCLUDE THE FOLLOWING:

*Model 170 controller unit complete with W4IKS (53A or latest revision) traffic program on 412B system – memory module and model 400 modem.
*One model 336 cabinet (meeting City of Wichita specifications) complete with all accessories including:
*1 – Model 210 ECL or MS Conflict Monitor.
*4 – Transfer Relays
*2 – Model 204 Flasher Units
*2 – Model 242 Two Channel Isolaters
*2 – Model 200 Switch Packs

The contractor shall be responsible for furnishing and installing the controller, cabinet and software and for all equipment necessary for the complete and satisfactory operation of the traffic signal, whether or not said equipment is specifically mentioned.

The contractor shall furnish and install all 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 five-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:

| | |
|---|---|
| White | Common |
| Red | Red Ball |
| Green | Green Ball |
| Orange | Yellow Ball |
| White/Black | Don't Walk |
| Blue | Walk |
| Black | Pushbutton |

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

One, five-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 |
| Green | Walk |
| White | Common |
| Orange | Spare |
| Black | Spare |

One, two-conductor cable shall be run from pushbutton to pole base.


MKEC ENGINEERING CONSULTANTS
411 N. WEBB ROAD
WICHITA, KS. 67206
316 - 684 - 9600


**WOODLAWN BLVD. - JACKSON ELEMENTARY**
PROJECT NAME

**WIRING PLAN**
SHEET TITLE

| | | |
|---|---|---|
| MKEC DESIGN BY: | DAC DRAWN BY: | JTC CHECKED BY: |
| JUNE 2004 DATE | 01160SG2 JOB NO. | 4 / 9 SHEET/OF |

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