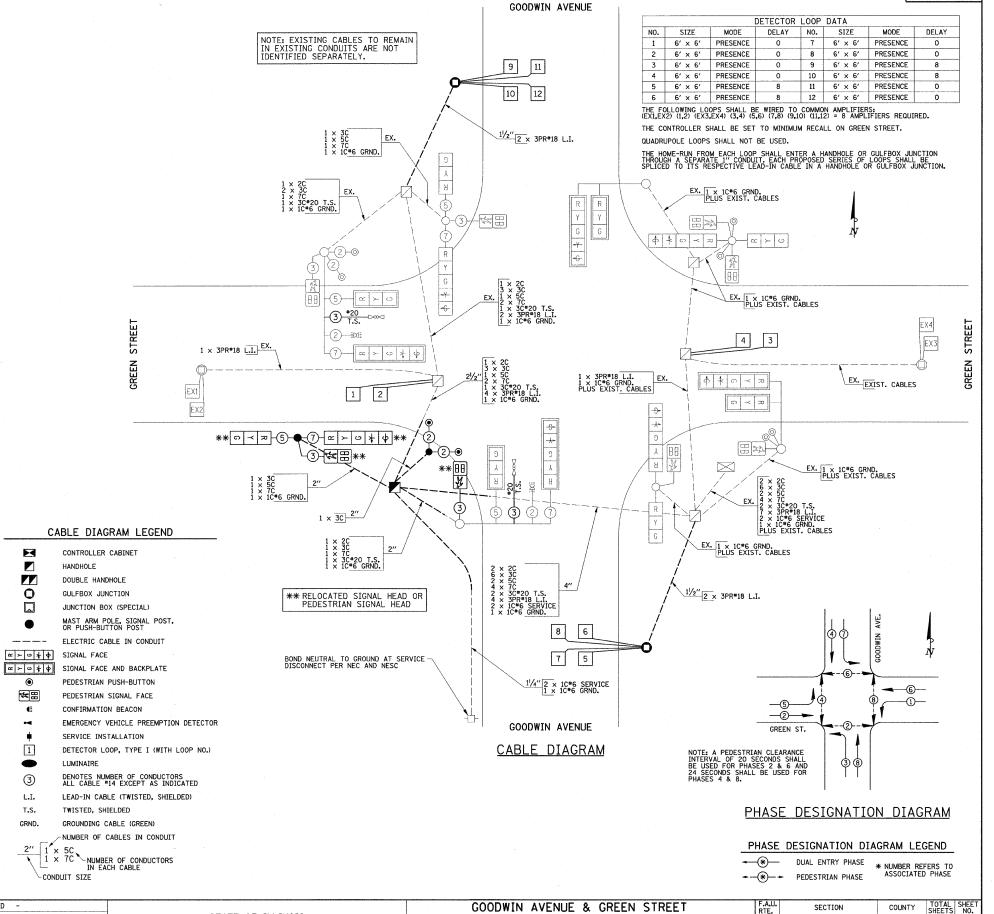
BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONDUIT IN TRENCH, 1" DIA., PVC	FOOT	108
CONDUIT IN TRENCH, 1/4" DIA., PVC	FOOT	42
CONDUIT IN TRENCH, 11/2" DIA., PVC	FOOT	28
CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	42
CONDUIT IN TRENCH, 21/2" DIA., PVC	FOOT	15
CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	30
HANDHOLE TO BE ADJUSTED	EACH	2
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
GULFBOX JUNCTION, COMPOSITE CONCRETE	EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	13
TRENCH AND BACKFILL WITH SCREENINGS OR SAND	FOOT	252
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	420
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	1220
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	410
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	820
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	1260
TRAFFIC SIGNAL POST, 16 FT.	EACH	1
PEDESTRIAN PUSH-BUTTON POST, TYPE I	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	3
DRILL EXISTING HANDHOLE	EACH	2
DETECTOR LOOP, TYPE I	FOOT	540
PEDESTRIAN PUSH-BUTTON	EACH	2
RELOCATE EXISTING SIGNAL HEAD	EACH	2
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2
MODIFY EXISTING CONTROLLER (SPECIAL)	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
MODIFY EXISTING SERVICE INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	L SUM	0.1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	760
ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED	FOOT	520
INDUCTIVE LOOP DETECTOR, RACK MOUNTED	EACH	8
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 1C	F00T	660
REMOVE ELECTRIC CABLE FROM CONDUIT (SPECIAL)	L. SUM	1

* SEE SPECIAL PROVISIONS FOR SYSTEM GROUNDING INFORMATION

TRAFFIC SIGNAL GENERAL NOTES

- 1. THE ACTUAL LOCATIONS OF ALL SIGNAL FOUNDATIONS AND HANDHOLES WILL BE VERIFIED IN THE FIELD BY THE ENGINEER.
- 2. POST MOUNTED SIGNAL HEADS SHALL BE INSTALLED SUCH THAT NO PART OF THE SIGNAL HEAD IS WITHIN TWO (2) FEET OF THE FACE OF CURB.
- 3. 12" LENSES SHALL BE USED ON ALL SIGNAL FACES, LED INDICATIONS SHALL BE USED ON ALL SIGNAL HEADS AND PEDESTRIAN SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND FACES SHALL BE SYMBOLS WITH COLUMNITOWN THERS.
- 4. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 6. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FOOT DEPTH TO AVOID OBSTACES SUCH AS UNDERGROUND UTILITIES OR TO MATCH THE DEPTH OF THE EXISTING CONDUIT TO BE INTERCEPTED.
- 7. A "/" POLYPROPYLENE PULL ROPE SHALL BE INSTALLED IN ALL CONDUIT RUNS EXCEEDING 20 FEET. A MINIMUM OF 2 FEET OF ROPE SHALL BE PROVIDED AT EACH END OF A CONDUIT RUN. THE ROPE SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE CONDUIT PAY ITEM.
- 8. ALL ADAPTERS REQUIRED TO CONNECT THE PROPOSED CONDUIT TO THE EXISTING CONDUIT SHALL ELECTRIC TO THE RESPECTIVE CONDUIT PAY ITEM, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFF
- 10. CONTROLLER PROGRAMMING OF SIGNAL TIMING WILL BE PROVIDED BY THE CITY OF URBANA.
- 11. THE ELECTRIC CABLE FOR EACH EXISTING LIGHT DETECTOR SHALL BE A CONTINUOUS UNBROKE RUN FROM THE LIGHT DETECTOR TO THE LIGHT DETECTOR AMPLIFIER. SPLICES IN THE CABLE SHALL NOT BE ALLOWED.
- 12. THE EXISTING ELECTRIC CABLES IN THE MAST ARM POLES AND SIGNAL POSTS THAT WILL REMAIN ON THE NORTHWEST AND SOUTHWEST QUADRANTS, EXCEPT FOR THE EXISTING LIGHT DETECTOR CABLES, MAY REMAIN IN THE POLESYPOSTS AND BE STUDED TO THE PROPOSED CABLES IN THE
- 13. THE THREE SECTION AND FIVE SECTION SIGNAL HEADS THAT OPERATE TOGETHER IN THE SAME PHASE AT THE SAME LOCATION WILL BE COMBINED ON A SINGLE SEVEN CONDUCTOR CABLE. THE PERSONNEL ON A SINGLE THREE CONDUCTOR CABLE. SPLICES WILL BE MADE AT THE POLE HANDHOLE OR PUSH-BUTTON POST CALL SPLICES WILL BE MADE AT THE POLE HANDHOLE OR PUSH-BUTTON POST CALL WITH INDIVIDUAL CABLES RUNNING FROM THE SPLICE TO EACH SIGNAL HEAD OF PEDESTRIAN
- 14. THE EXISTING "NO TURN ON RED" SIGN ON THE SOUTHWEST QUADRANT SHALL BE RELOCATED FROM THE EXISTING TRAFFIC SIGNAL POST TO THE PROPOSED TRAFFIC SIGNAL POST, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 15. THE EXISTING PEDESTRIAN PUSH-BUTTON SIGNS ON THE SOUTHWEST QUADRANT SHALL BE RELOCATED FROM THE EXISTING MAST ARM POLE TO THE PROPOSED PEDESTRIAN PUSH-BUTTO POST, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 16. THE CONCRETE FOUNDATION FOR THE PEDESTRIAN PUSH-BUTTON POST SHALL BE INCLUDED IN THE COST OF THE PEDESTRIAN PUSH-BUTTON POST.
- 17. DETECTOR LOOPS SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF THE HMA SURFACE COURSE.



SCALE : NONE

FILE NAME =

CONTRACT NO. 9139