



PEDESTRIAN PUSH BUTTON SIGN TYPE R10-4B (L OR R)



THE CONTRACTOR SHALL SUPPLY AND MOUNT ONE STGN WITH EACH PEDESTRIAN PUSH BUTTON AND THIS SHALL BE INCLUDED IN THE COST OF PEDESTRIAN PUSH BUTTON

BACKGROUND-WHITE

GENERAL NOTES FOR TRAFFIC CONTROL SIGNALS

1. THE WILL COUNTY DEPARTMENT OF HIGHWAYS SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER

UNIT. CONTACT JEFF RONALDSON, PERMIT ENGINEER, OR BRUCE GOULD.

ASSISTANT COUNTY ENGINEER AT (815) 727-8476 PRIOR TO BEGINNING

3. TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED

4. AVA" DIAMETER CONTINUOUS RODENT RESISTANT NYLON ROPE

BE INCLUDED WITH THE COST OF CONDUIT PAY ITEMS.

COMPOUND, SIMILAR LEAD PLATE, PRIOR TO ASSEMBLY.

WITH SEED TO THE SATISFACTION OF THE ENGINEER. 9. ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED.

NEATLY TRAINED IN THE CONTROLLER CABINET.

FOR THE SERVICE INSTALLATION.

ROWS OF LEDS LIEU OF TWO ROWS.

JANUARY 1, 2002.

SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER. THIS COST SHALL

5. ALL MAST ARM MOUNTED SIGNAL HEADS ON AN INDIVIDUAL MAST

ARM SHALL BE MOUNTED SO THAT THE RED INDICATIONS ARE LEVEL

6. THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS

7. ALL THREADS OF BOLTS USED IN ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE

8. ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED

CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE

10. ALL NEW TRAFFIC AND PEDESTRIAN SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL SPLICES IN JUNCTION BOXES

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNAL AND STREET LIGHTING.

REMOTE MONITORING CAPABILITIES NEED TO BE INSTALLED INCLUDING

COMMUNICATION WITHIN THE TRAFFIC SIGNAL CONTROL EQUIPMENT. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO

BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS

12. DOUBLE BREAKAWAY FUSED FUSE HOLDERS AND SURGE ARRESTERS ARE TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR IN THE BASE

OF THE COMBINATION MAST ARMS AS INCIDENTAL TO THE PAY ITEM.

13. THE CONTROLLER SHALL BE TS1 AND TS2 COMPATIBLE. 14. ALL GROUNDING MATERIALS FOR TRAFFIC SIGNAL CONCRETE FOUNDATIONS SHALL REFER TO SECTION 807 IN THE STANDARD

SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED

15. THE YELLOW AND GREEN LED ARROW SECTIONS SHALL HAVE THREE

PHONE SERVICE, CONDUIT, AND ALL NECESSARY EQUIPMENT FOR TWO-WAY

WORK AND PUTTING THE TRAFFIC SIGNALS IN OPERATION. 2. ALL TRAFFIC SIGNAL HEADS SHALL BE 12-INCH POLYCARBONATE.

SIGNAL PAY ITEMS.

WITH EACH OTHER.

SHALL BE SOLID, SOFT COPPER.

- RTE. SECTION COUNTY SHEETS NO. 1638* WILL 38 22 STA. TO STA FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT
 - CONTRACT NO. 63316 * EXCHANGE STREET ** 09-00044-01-TL
- 16. ALL DETECTOR LOOPS SHALL CONSIST OF THE NUMBER OF TURNS REQUIRED AND SHALL BE INSTALLED IN STRICT CONFORMITY WITH THE LOOP DETECTOR AMPLIFIER MANUFACTURE'S RECOMMENDATIONS.
- 17. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR LOCATION OF UTILITES CALL J.U.L.I.E. 1-800-892-0123.
- 18. ALL SIGNAL AND PEDESTRIAN HEADS SHALL BE LIGHT EMITTING DIODE (LED) BASED ON ADVANCED INDIUM-BASED LED TECHNOLOGY BY THE DIALIGHT COMPANY (MAXIMUM 18 LED'S / 12" HEAD) OR APPROVED EQUAL INCLUDING POLYCARBONATE BACKPLATES WITH DEEP BACK FLANGE.
- 19. THE EXACT LOCATION OF THE DETECTOR LOOPS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
- 20. THE PROPOSED TRAFFIC SIGNAL CONTROL CABINET SHALL BE FURNSHED WITH A MANUAL CONTROL SWITCH AND MANUAL CORD WITHIN THE POLICE DOOR COMPARTMENT AS WELL AS A PHONE MODEM INSIDE THE CABINET AS INCIDENTIAL TO THE CONTROLLER PAY ITEM. THE FULL ACTUATED CONTROLLER SHALL BE ECONOLITE.
- 21. THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLY REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON AS INCIDENTIAL TO THE CONTROLLER PAY ITEM. HE/SHE SHALL BE CAPABLE OF MAKING CERTAIN THAT THE CONTROL EQUIPMENT IS WORKING TO THE SATISFACTION OF THE ENGINEER.
- 22. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT GREATER THAN 30" MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
- THE CONTROLLER CABINET SHALL BE PLACED SO A TECHNICIAN CAN SEE THE INTERSECTION OVER THE TOP OF THE CABINET WHILE WATCHING THE COMPONENTS IN THE CABINET.
- 24. THE CONTRACTOR SHALL PROVIDE A SELF-ADHERED PHASE DIAGRAM ON THE INSIDE OF THE CONTROLLER CABINET DOOR.
- THE DIMENSIONS AND LOCATIONS OF UTILITY FACILITIES AS SHOWN ON THE PLANS ARE AN ESTIMATE FOR DESIGN PURPOSES ONLY AND ARE NOT INTENDED FOR USE AS FIELD LOCATIONS FOR CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY ARE NOT SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER OR OWNER.
- 27. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR FAILURE TO VERIFY EXISTING CONDITIONS OR DIMENSIONS.
- 28. THE CONTRACTOR AT HIS OWN EXPENSE SHALL BE REQUIRED TO RELOCATE ALL ROAD SIGNS WHICH INTERFERE WITH HIS CONSTRUCTION OPERATIONS AND TO TEMPORARILY RESET SUCH SIGNS DURING HIS CONSTRUCTION OPERATIONS. ALL WORK INVOLVING SIGNS SHALL BE COVERED BY THE FOLLOWING REQUIREMENTS:

 A. SIGNS SHALL NOT BE REMOVED UNTIL PROGRESS OF WORK NECESSITATES REMOVAL.
 B. EVERY SIGN REMOVED MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORK-MANLIKE MANNIEW MANNIEM THE FIGO THE ROADWAY. ALL SUCH SIGNS SHALL BE MAINTAINED STRAIGHT AND NEAT LOOKING FOR THE DURATION OF THE TEMPORARY SETTING.
 C. ALL SIGNS MUST BE RE-ERECTED IN THEIR PERMANENT LOCATIONS AS DESIGNATED BY THE ENGINEER AS THE SIGNAL WORK IS COMPLETED.
 D. ANY SIGNS OR POSTS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT HIS OWN EXPENSE.
- 29. A BATTERY BACK-UP SYSTEM, NOVUS XT 1000P UNIT OR APPROVED EQUAL, CAPABLE OF THREE (3) HOURS MIMIMUM BATTERY LIFE TO PROVIDE ONE (1) HOUR OF FULL FUNCTIONING SIGNALS AND TWO (2) HOURS OF FLASHING RED SHALL BE INSTALLED IN THE CONTROLLER CABINET(TYPE IV CABINET WITH AN EXTERNAL BATTERY ENCLOSURE.
- 30. THE CONTROLLER CABINET SHALL BE EQUIPPED WITH A 9600 BAND, AUTO DIAL / AUTO ANSWER, MODEM. IT SHALL BE A U.S. ROBOTICS 33.6K BAND RATE OR APPROVED EQUAL.



ROBERT E. HAMILTON REVISIONS NO. NAME DATE CONSULTING ENGINEERS P.C. 1 PER IDOT 8-13-09 3230 EXECUTIVE DRIVE 2 PER IDOT 10-29-09 JOLIET, ILLINOIS 60431 PHONE: 815-730-3444 REH PROJECT: 06902 SCALE: NTS MEI PROJECT: 04119.806

M^C BRIDE ENGINEERING, INC. CIVIL ENGINEERS & SURVEYORS
ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803

ARLINGTON HEIGHTS DIVISON 320 S. Belmont Avenue Arlington Heights, IL 60005-2038 847-394-4810

SCALE: NONE

MAST ARM & SIGNAL POST LOADING DIAGRAMS & GENERAL NOTES

DATE: 7-3-09

VILLAGE OF CRETE

EXCHANGE STREET IMPROVEMENTS

WILL COUNTY,

DRAWN BY: PG/ADM CHECKED BY: LGB