

## MAST ARM AND SIGNAL NOTES:

1. ALL SIGNAL HEADS EXCEPT FLASHING BEACONS HAVE BACKPLATES

III Rte 71 STA. 673+48.3. 34.0' RT

- 2. ALL MAST ARM FOUNDATIONS TO BE 36" DIAMETER
- 3. DAMPING DEVICE SHALL CONSIST OF A 24" x 30" TYPE-I UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON THE TOP OF THE MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM, COST OF THE DAMPING DEVICE SHALL BE INCLUDED IN THE COST OF THE MAST ARM.

Sign panel

(2 Required)

- 4. ARM SUPPORT FOR THE LUMINAIRE SHALL BE PARALLEL TO THE MAST ARM.
- 5. FOUNDATION DEPTHS ARE SHOWN ON THE SIGNAL PLAN SHEET

## 1'-6"x 5'-0" STA. 673+48.3. 34.0' RT Sign panel (2 REQUIRED) (1 Required) 5'-0" ILLINOIS III Rte 71 ILL Rte 71 STA. 673+28.0, 70.5' LT &

## SIGN NOTES:

1. 3/4" BORDER, 2 1/4" CORNER RADIUS

STA. 672+59.0, 60.3' RT (2 REQUIRED)

- 2. 8" SERIES D UPPER CASE LETTERS
- 3. WHITE REFLECTORIZED LEGEND ON A GREEN REFLECTORIZED BACKGROUND
- 4. TYPE ZZ SHEETING

## TRAFFIC SIGNAL GENERAL NOTES

- 1. THE TRAFFIC SIGNAL SECTION AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DISTRICT 3, SHALL BE NOTIFIED AT 815-434-8506 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNITS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCED NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123
- ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS
- ALL TRAFFIC SIGNAL HEADS SHALL BE 12 INCH POLYCARBONATE.
- 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 TRAFFIC SIGNAL PAY ITEMS.
- 6. A 1/4" DIAMETER CONTINUOUS RODENT RESISTANT NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OF CONTROLLERS. THIS COST SHALL BE INCLUDED WITH THE
- 7. THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON. COST TO BE INCLUDED WITH THE TRAFFIC SIGNAL CONTROLLER PAY ITEM
- 8. ALL CONDUIT IN TRENCH SHALL BE PVC. ALL PUSHED CONDUIT MAY BE PVC OR GALVANIZED STEEL. CONDUIT ATTACHED TO STRUCTURES SHALL BE GALVANIZED STEEL.
- NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT A GREATER THAN 2' MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
- 10. THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID. SOFT COPPER
- 11. ALL THREADS OF BOLTS USED IN THE ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SIEZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.
- 12. ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED. CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.
- 13. ALL TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN JUNCTION BOXES WILL NOT BE
- 14. THE CONTROLLER CABINET SHALL BE PLACED SO THAT A TECHNICIAN MAY SEE THE INTERSECTION OVER THE TOP OF THE CABINET WHILE WATCHING THE COMPONENTS IN THE CABINET.
- 15. THE PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE FURNISHED WITH A MANUAL CONTROL SWITCH AND MANUAL CONTROL CHORD WITHIN THE POLICE DOOR COMPARTMENT. THIS WORK SHALL BE INCLUDED IN THE CONTROLLER CABINET PAY ITEM
- 16. THE CONTRACTOR SHALL PROVIDE A SELF-ADHERED PHASE DIAGRAM ON THE INSIDE OF THE CONTROLLER CABINET
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE LIGHTING AND TRAFFIC SIGNALS. SEPARATE ELECTRICAL SERVICE INSTALLATIONS, MEETING THE REQUIREMENTS OF SECTIONS 804 AND 805 OF THE STANDARD SPECIFICATIONS, WILL BE REQUIRED FOR LIGHTING AND FOR TRAFFIC SIGNALS RESPECTIVELY. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS FOR THESE SERVICE INSTALLATIONS.
- 18. THE ELEVATION OF THE TOP OF THE DOUBLE HANDHOLE SHALL BE LESS THAN THE ELEVATION OF THE TOP OF THE CONTROLLER FOUNDATION.
- 19. ALL UNINTERRUPTIBLE POWER SUPPLIES SHALL BE EQUIPPED WITH ALPHA GUARD MONITORS.
- 20. ALL GROUNDING MATERIALS FOR CONCRETE FOUNDATIONS SHALL REFER TO SECTION 806 OF THE STANDARD **SPECIFICATIONS**
- 21. ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED WITH SEED OR SOD TO THE SATISFACTION OF THE ENGINEER. SEEDING OR SODDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION.
- 22. THE FIBER OPTIC CABLE SHALL BE LABELED WITH DIRECTION AND ASSIGNMENT NUMBER.
- 23. THE SURGE PROTECTOR IN THE CONTROLLER CABINET SHALL HAVE AN INDICATOR LIGHT.
- 24. THE MAST ARM FOUNDATIONS SHALL BE LOCATED A MINIMUM 6' FROM THE FACE OF CURB OR A MINIMUM 18' FROM THE EDGE OF PAVEMENT TO THE FACE OF FOUNDATION WHERE THERE IS NO CURB, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IN CURB AREA, GET MORE THAN 6' IF POSSIBLE IF THE SIGNAL HEAD STILL LINES UP IN CENTER OF LANE.
- 25. CHANGEABLE MESSAGE BOARDS ARE REQUIRED ILL 71. ONE WEEK PRIOR TO SIGNAL TURN-ON, THE MESSAGE SHOULD READ "NEW SIGNAL AHEAD/TURN ON DATE". FOR THREE WEEKS AFTER, THE MESSAGE SHOULD READ "NEW SIGNAL AHEAD/BE PREPARED TO STOP

FILE NAME \$FILEL\$

 USER NAME = _USER_	DESIGNED	-	RS	REVISED	
OSCIT HANGE - LOSCITE	DESTONED		11.3	MEVISED	
	DRAWN	-	RS	REVISED	
PLOT SCALE = 20.0000 '/ IN.	CHECKED	-	RS	REVISED	-
PLOT DATE = 3/31/2011	DATE	-	03/31/2011	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SECTION FAP 311 (IL 71) AT VAN EMMON / RESERVATION ROADS 311 (1-1)N TS MAST ARM AND SIGN DETAILS AND GENERAL NOTES

KENDALL 92 63 CONTRACT NO. 66955 SHEETS STA. SHEET NO. OF ILLINOIS FED. AID PROJECT

TOTAL SHEE SHEETS NO.

COUNTY