NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12" (300mm). HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
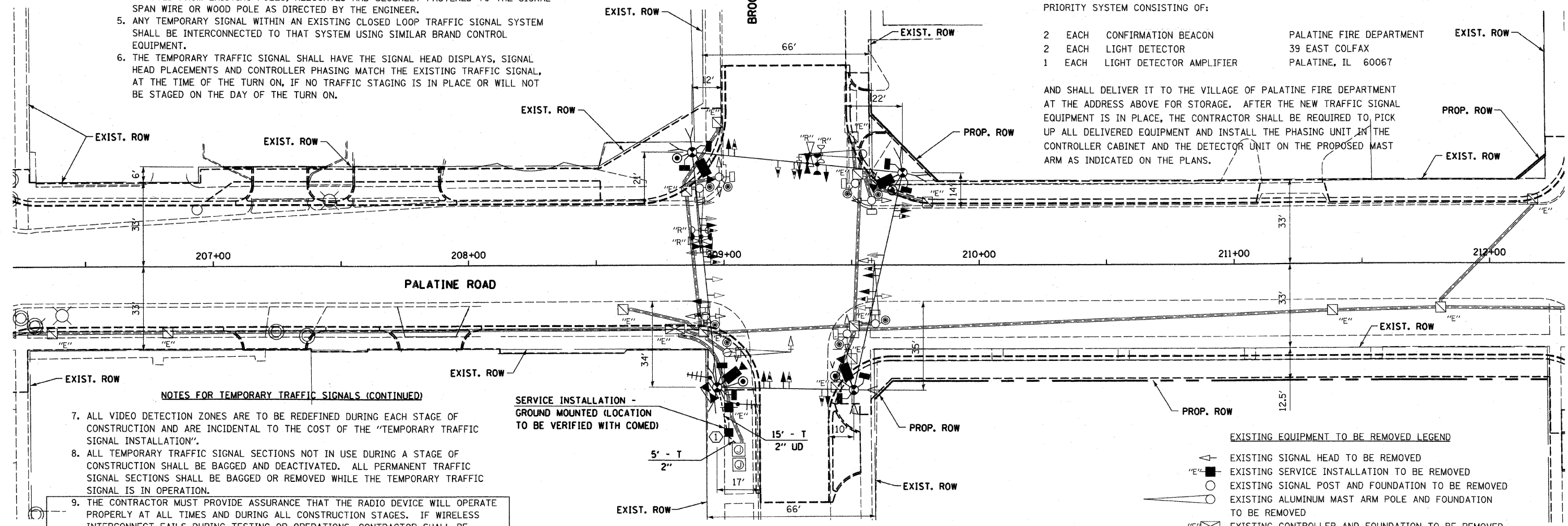
NOTES FOR TEMPORARY TRAFFIC SIGNALS (CONTINUED)

7. ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCIDENTAL TO THE COST OF THE "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
8. ALL TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. ALL PERMANENT TRAFFIC SIGNAL SECTIONS SHALL BE BAGGED OR REMOVED WHILE THE TEMPORARY TRAFFIC SIGNAL IS IN OPERATION.
9. THE CONTRACTOR MUST PROVIDE ASSURANCE THAT THE RADIO DEVICE WILL OPERATE PROPERLY AT ALL TIMES AND DURING ALL CONSTRUCTION STAGES. IF WIRELESS INTERCONNECT FAILS DURING TESTING OR OPERATIONS, CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING NECESSARY POLES, FIBER OPTIC CABLE AND OTHER INFRASTRUCTURE FOR PROVIDING TEMPORARY FIBER INTERCONNECT AT NO COST TO THE CONTRACT.

CONSTRUCTION NOTES:

(1) THE CONTRACTOR SHALL INSTALL A 2" UNIT DUCT FROM THE GROUND MOUNTED SERVICE INSTALLATION TO THE TEMPORARY WOOD POLE FOR TEMPORARY TRAFFIC CONTROLLER SERVICE CABLE. THE COST OF INSTALLATION SHALL BE INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

(2) TEMPORARY RADIO INTERCONNECT MAY BE USED ON THIS PROJECT AS SHOWN IN THE PLANS. RADIO ANTENNAS SHOULD BE INSTALLED ON THE WOOD POLE ADJACENT TO THE TEMPORARY CONTROLLER. ALL WORK RELATED TO INSTALLATION AND ENSURING PROPER OPERATION OF THE TEMPORARY INTERCONNECT SHALL BE INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

(3) RELOCATE EXISTING LIGHT DETECTORS AND CONFIRMATION BEACONS TO THE NEW MAST ARMS.

(4) RELOCATE EXISTING LIGHT DETECTOR AMPLIFIER TO NEW CONTROLLER CABINET.

TEMPORARY TRAFFIC SIGNAL LEGEND

- ◄— TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- ◄— TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- ◄— TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED TERTIARY LOCATION
- ◄— TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED FINAL LOCATION
- ⊙ TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT MIN.
- ⋈ TEMPORARY CONTROLLER CABINET
- — TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE
- ▪ TEMPORARY SERVICE INSTALLATION
- ■ TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- ⊙ TEMPORARY PEDESTRIAN PUSHBUTTON DETECTOR
- ► EMERGENCY VEHICLE LIGHT DETECTOR
- ►◄ CONFIRMATION BEACON
- ▬ VEHICLE DETECTOR, INDUCTION LOOP
- CT COMMON TRENCH
- UD UNIT DUCT
- ------ G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- ■ HANDHOLE
- H HEAVY DUTY HANDHOLE
- > DOWN GUY
- +++ RADIO INTERCONNECT ANTENNA
- ▼ VIDEO DETECTION CAMERA

THE CONTRACTOR SHALL REMOVE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM CONSISTING OF:

2	EACH	CONFIRMATION BEACON	PALATINE FIRE DEPARTMENT
2	EACH	LIGHT DETECTOR	39 EAST COLFAX
1	EACH	LIGHT DETECTOR AMPLIFIER	PALATINE, IL 60067

AND SHALL DELIVER IT TO THE VILLAGE OF PALATINE FIRE DEPARTMENT AT THE ADDRESS ABOVE FOR STORAGE. AFTER THE NEW TRAFFIC SIGNAL EQUIPMENT IS IN PLACE, THE CONTRACTOR SHALL BE REQUIRED TO PICK UP ALL DELIVERED EQUIPMENT AND INSTALL THE PHASING UNIT IN THE CONTROLLER CABINET AND THE DETECTOR UNIT ON THE PROPOSED MAST ARM AS INDICATED ON THE PLANS.

EXISTING EQUIPMENT TO BE REMOVED LEGEND

- ◄— EXISTING SIGNAL HEAD TO BE REMOVED
- "E" ■ EXISTING SERVICE INSTALLATION TO BE REMOVED
- ○ EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- ◄— EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- "E" ⋈ EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- "E" ▱ EXISTING HANDHOLE TO BE REMOVED
- ▯ EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- ◉ EXISTING PEDESTRIAN PUSHBUTTON TO BE REMOVED
- "R" ►◄ EMERGENCY VEHICLE LIGHT DETECTOR TO BE RELOCATED
- "R" ○ CONFIRMATION BEACON TO BE RELOCATED
- "E" H EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
- ○ EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE OF THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	CONTROLLER AND CABINET, COMPLETE
2	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
2	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 2-3 SECTION
8	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
8	EACH	PEDESTRIAN PUSH-BUTTON
4	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	MAST ARM ASSEMBLY AND POLE
5	EACH	SIGNAL POST
1	EACH	SERVICE INSTALLATION

NOTE:
THE TEMPORARY TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

SERVICE INSTALLATION - GROUND MOUNTED (LOCATION TO BE VERIFIED WITH COMED)

BROCKWAY STREET

PALATINE ROAD

EXIST. ROW / PROP. ROW

207+00 208+00 209+00 210+00 211+00 212+00

N

CONTRACT NO. 63083

C.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	89

STA. _____ TO STA. _____
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PALATINE ROAD AND BROCKWAY STREET
TEMPORARY TRAFFIC SIGNAL PLAN

SCALE: 1" = 20'   DRAWN BY DMB
DATE OCTOBER 19, 2009   CHECKED BY RY

TD-11