CONTRACT #60371

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## NOTES:

1. THE CONTROL EQUIPMENT FOR ALL THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE STATED IN THE PLANS. FOR PROJECTS WITH MULTIPLE TEMPORARY SIGNAL INSTALLATIONS, ALL CONTROLLERS SHALL BE MADE OF THE SAME MANUFACTURER, BRAND AND MODEL NUMBER WITH CURRENT SOFTWARE INSTALLED

2. TRAFFIC SIGNAL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE ACTUATED NEMA PROCESSOR BASED INSTALLED IN THE CABINETS WITH 8 PHASE BACK PANELS CAPABLE OF SUPPLYING 255 SECONDS OF CYCLE LENGTH AND INDIVIDUAL PHASE LENGTH SETTING UP TO 90 SECONDS. THE TEMPORARY SIGNAL CONTROLLER SHALL BE CAPABLE OF PROVIDING ADJUSTABLE ALL RED CLEARANCE SETTING OF UP TO 30 SECONDS IN LENGTH.

3. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL MEET OR EXCEED THE REQUIREMENTS OF ARTICLE 1085.45 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION WITH REGARDS TO INTERNAL TIME BASE COORDINATION AND PREEMPTION.

4. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE OF THE 305MM TYPE. THE TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFIC 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. TEMPORARY TRAFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER TO THE SIGNAL HEAD.

5. THE CONTRACTOR SHALL REMOVE THE EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS FROM EXISTING POLES THAT ARE REQUIRED TO BE REMOVED OR RELOCATED DUE TO CONSTRUCTION. THE RELOCATED SIGNS SHALL BE SECURELY FASTENED TO THE TEMPORARY WOOD POLE AND/OR THE SIGNAL SPAN WIRE. THE BUREAU OF TRAFFIC, EXCLUSIVELY, WILL DETERMINE THE LOCATIONS OF ALL SIGNS THAT ARE DIRECTLY OR INDIRECTLY INVOLVED WITH THE PROJECT.

6. THE SPAN WIRE FOR TEMPORARY TRAFIC SIGNAL HEAD AND CABLE SHALL BE 10MM NOMINAL DIAMETER, 7 STRAND, ZINC COATED WIRE CONFORMING ASTM A475, UTILITY GRADE OR BETTER

7. THE TEMPORARY WOOD POLES FURNISHED AND INSTALLED UNDER STAGES 1A & B, 2A & B SHALL BE LEFT IN PLACE THROUGHOUT EACH CONSTRUCTION STAGE. THE CONTRACTOR MUST LOCATE EACH WOOD POLE IN A LOCATION WHERE IT WOULD NOT RESTRICT THE PROPOSED CONSTRUCTION UNDER PRECEDING STAGES. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL TEMPORARY AND PERMANENT TRAFFIC SIGNAL INSTALLATIONS WITH HIS CONSTRUCTION SCHEDULE. FINAL COORDINATION AND SEQUENCING SHALL BE APPROVED BY THE CDOT MAINTENANCE OF TRAFFIC AND THE ENGINEER.

8. WOOD POLES SHALL BE FULL-TREATED SOUTHERN PINE, DOULAS FIR, OR WESTERN RED CEDAR CONFORMING TO THE AMERICAN NATIONAL STANDARD SPECIFICATIONS AND DIMENSIONS FOR WOOD POLES. THE PRESERVATIVE TREATMENT SHALL CONFORM TO THE AMERICAN PRESERVERS ASSOCIATION STANDARD C4. THE DOWN GUY FOR WOOD POLES SHALL MEET THE REQUIREMENT OF ASTM A 475 UTILITY GRADE OR BETTER.

9. ALL LABOR AND MATERIAL REQUIRED TO COMPLY WITH THESE REQUIREMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNIT PRICE EACH FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION.

10. TEMPORARY TRAFFIC SIGNALS MUST BE IN PLACE, TESTED, AND FULLY OPERATIONAL PRIOR TO REMOVAL OF EXISTING SIGNALS. THE CITY USES COMBINATION TRAFFIC SIGNAL AND STREET LIGHTING POLES; THEREFORE, THE CONTRACTOR SHALL PROVIDE TEMPORARY PROVISIONS TO MAINTAIN POWER TO THE ROADWAY LIGHTING REMAINING IN THE SERVICE. ALL TRAFFIC SIGNAL EQUIPMENT REMOVED BY THE CONTRACTOR SHALL BE TURNED OVER TO THE CITY OF CHICAGO, BUREAU OF ELECTRICITY. PAYMENT FOR THIS WORK WILL BE MADE UNDER THE CONTRACT UNIT PRICE PER EACH FOR "TEMPORARY TRAFIC SIGNAL INSTALLATION".



STAGE-1A & 1B



STAGE-2A & 2B
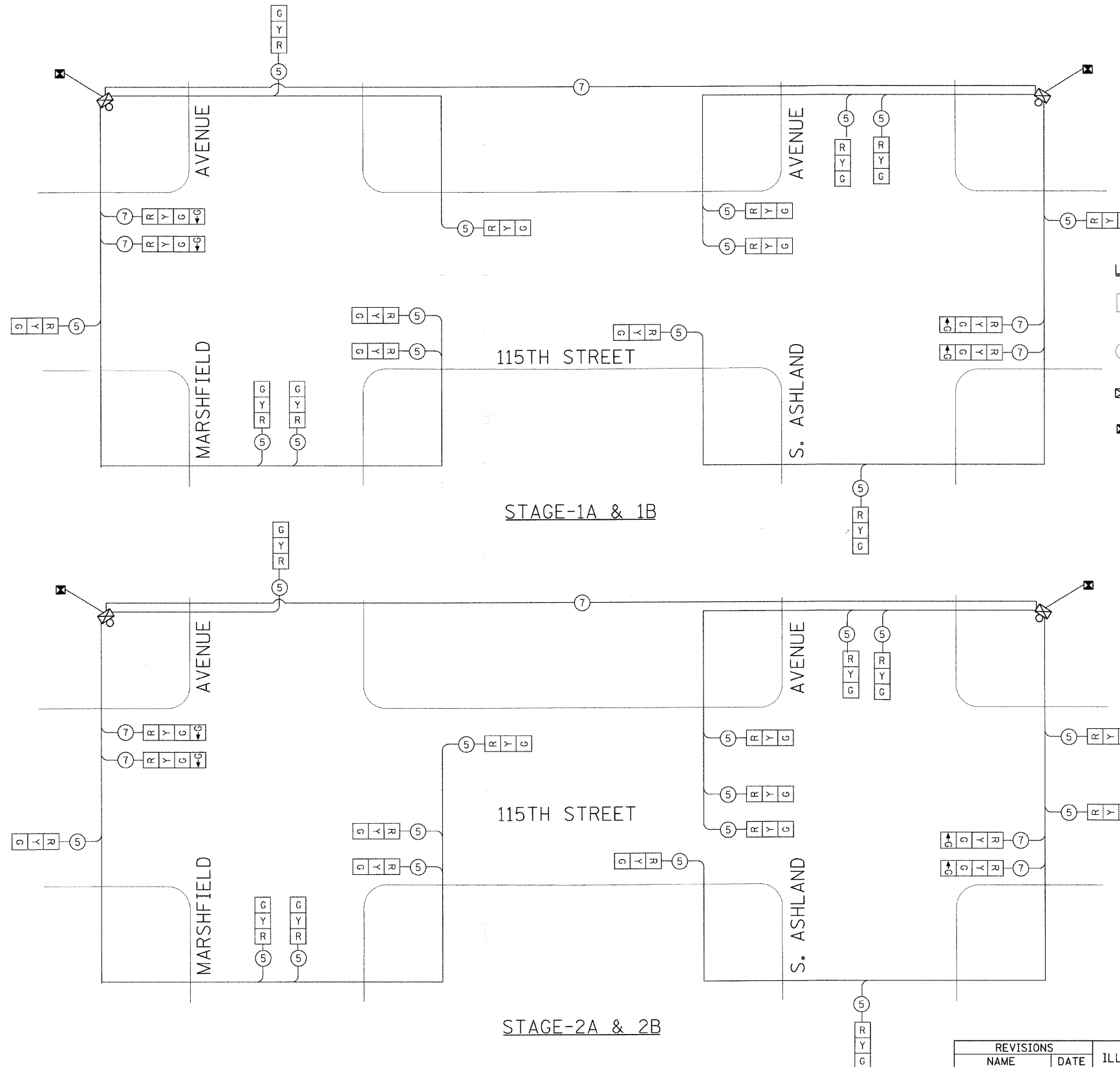
## LEGEND - TEMPORARY CABLE PLAN

R   SIGNAL SECTION 300mm

(2)   INDICATES NUMBER OF CONDUCTORS IN CABLE, ALL CONDUCTORS SHALL BE NO. 14 A.W.G. WIRE UNLESS OTHERWISE NOTED

⊠   TEMPORARY CONTROLLER CABINET, SEE NOTE 2

⊠   EXISTING STREET LIGHTING CONTROLLER

| REVISIONS | |
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| NAME | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
115TH STREET OVER I-57
TEMPORARY CABLE DIAGRAM AND
GENERAL NOTES
(STAGES-1A & 1B, STAGES-2A & 2B)

| SCALE: NONE | DRAWN BY: BD |
|---|---|
| DATE: 01-16-09 | CHECKED BY: RD |

**SINGH**   SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS