1 PHASE, 3 WIRE 120 V / 240 AERIAL

SERVICE CABLE

_____A/C-

25' POLE STA: 3+00

-A/C-

EXISTING COM ED SERVICE

TRANSFORMER

- 1 The materials and installation methods shall comply with the latest IDOT Standards, National Electrical code, Standards and ordinances of Federal, State and Local governing bodies having jurisdiction.
- 2 All electrical equipment, components and devices shall be U/L listed.
- 3 The grounding and bonding of all metal parts of the light poles shall conform to NEC Article 250. The equipment ground should be continuous and connected up to the electrical system ground. This work should be part of the light pole pay item.
- 4 The light pole setback from the edge of travel pavement shall be 30 feet unless the The light pole setback from the edge of travel pavelient shall be so feet almost in light pole is behind guardrail or otherwise stated on the plans. The light poles when installed behind the guardrail should have at least twenty feet setback from the back of the traveled lane and or as directed by the Engineer.
- 5 The contractor shall splice aerial messenger cable at light pole using heat shrinkable caps with factory applied waterproof sealant. The installation and required materials should be part of light pole pay item.
- 6 The quantity as shown in summary of quantities for the temporary lighting is approximate. The contractor shall be responsible for field verifying all quantities prior to ordering any materials or equipment.
- 7 The temporary light poles should have identification numbers as shown on the plans
- 8 The contractor shall be responsible for any damage done to existing infrastructure or equipment/devices by the contractor's employees or his subcontractors. The contractor shall not install or repair any damaged equipment or devices without Engineer 5/32 s approval. The Engineer may permit contractor either to repair and reinstall existing equipment/devices or instruct contractor to replace it with new ones as directed at no cost to State.
- 9 The contractor shall be responsible for contacting and coordinating with J.U.L.I.E. for locating existing underground utilities. The contractor shall locate, flag, and protect all underground utilities prior to commencing construction activities. In case of any damage to existing utilities, the contractor shall repair existing utilities immediately at no cost to State.
- 10 The contractor shall coordinate construction and staging activities with other contractors and utility companies, and participate in coordination meetings as required. The contractor shall not receive any financial compensation for these activities.
- 11 The contractor shall submit staging schedule identifying starting and completion dates prior to the commencement of work for procurement, installation and or removal of existing material/equipment.
- 12 The temporary lighting should use aerial cables as shown on the plans. However, the under ground new electrical installation if any should be at minimum 30 inches below grade and shall have electrical warning tape conforming to the IDOT Standards.

TL-A1

STA. 5+00

-A/C---A/C-

- 13 The contractor shall notify utility company as soon as possible concerning pending electrical service installation and connection to ensure availability of electrical power supply in a timely manner.
- The contractor may modify electrical IDOT Standard details as necessary to suite 14 specific site conditions; however, the contractor should obtain Engineer's approval prior to the installation.
- The contractor shall restore all excavated or disturbed areas to its original 15 condition and or as directed by the Engineer.
- The removal of temporary lighting shall include and not be limited to: All wooden poles, luminaires with mast arms, messenger wires / cables, Com Ed service cables, conduits, 16 service box and hauling away of these items from the project site.

TL-A2 STA. 9+00

-A7C-

| Pay Code | Item Description | Unit | Quantity | |
|----------|--|----------|----------|--|
| 80400100 | Electric Service Installation | Each | 1 | |
| 80400200 | Electric Utility Service Connection | | | |
| 82103400 | Luminaire 400W HPS Horizontal Mount, with Photocell Control | Each | 6 | |
| 83057355 | Light Pole, Wood, 60 Foot, Class 4 With 15FT Mast Arm | Each | 6 | |
| 81800320 | Aerial Cable 3-1/C # 4 Aluminum with Messenger Wire | Foot | 1450 | |
| XX006937 | Ground Rod 5/8 DIA x 10 Foot | Each | 3 | |
| 81100200 | 3/4 Galvanized Steel Conduit Attached To Structure | Foot | 200 | |
| 81700120 | Electric cable in Conduit 600V, (EPR-TYPE RHW) 1/C # 6 Green | Foot | 250 | |
| | Electric Service Disconnect, Lighting and Traffic Signal | Each | 1 | |
| X0323574 | Maintenance of Lighting System | Ca Mo | 6 | |
| | Temporary Lighting System Removal, no Salvage | Lump Sum | 1 | |
| 80801400 | Wood Pole 25' Class 4 | Each | 1 | |

TL-B3 574. 15+00

TL-A3 13+00 STA. 13+00

IL. RTE. 23

TL-B2 STA. 11+00

- A/C--A

162.5

A/C-.

TEMP. CONC.

| FILE NAME = | USER NAME = niesrb | DESIGNED - DG | REVISED - | | | IL. RTE. 23 OVER COO | 141 |
|---------------------------------------|------------------------------|----------------|-----------|---------------------------------------|---------------|-------------------------|-----|
| c:\projects\view\d112608\lighting.dgn | | DRAWN - RL | REVISED - | STATE OF ILLINOIS | 1 | | |
| | PLOT SCALE = 50.0000 ' / IN. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | 1 | TEMPORARY LIGHTIN | NG |
| | PLOT DATE = 3/7/2008 | DATE - 2-25-08 | REVISED - | · · · · · · · · · · · · · · · · · · · | SCALE: 1"=50' | SHEET NO. 1 OF 3 SHEETS | ST |

TL-B1 STA. 7+00

PROP. STOP BAR-

60

Summary of Quantities, Electrical pay items

LEGEND

VC*6 GREEN TYP.

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| • Q R | 400W, 120V, MCIII HPS. WITH PHOTO CELL 15' MA, 50 MH ON WOOD POLE, R REPRESENTS |
|-------|--|
| | RED PHASE AND B REPRESENTS BLACK PHASE |

- AERIAL ELECTRIC CABLE, 3-1/C*4, ALUMINUM WITH MESSENGER ---A/C--WIRE UNLESS OTHERWISE NOTED
 - \otimes WOODEN POLE
 - TEMPORARY LIGHT POLE CKT A1 TL-A1
 - ---11 5/8 " × 10' GROUND ROD
 - COMBINATION LIGHTING AND TRAFFIC POLE MOUNTED ELECTRICAL SERVICE BOX

| | | | GRAPH | IC SCAL | E | | | |
|--------|----|------|----------------|-----------------|------|---------|-------|--------------|
| 20 | 0 | 20 | ME | ETERS 40 | 60 | 80 | | 100 |
| | | | | | | | | |
| 50 | 0 | 50 | 100 FÉET | 150 | 200 | 250 | | |
| ON CRE | EK | | F.A.P. RTE. | SEC | TION | COUNTY | TOTAL | SHEET NO. |
| NG PLA | | | 324 | 24 B- | I | McHENRY | 13 | 8 |
| STA. | то | STA. | FED R | DAD DIST. NO. 1 | | | NO. 6 | 0D92 |