## POWER CABLES

| | DESIGNATION | CABLES (SEE NOTES) | FROM | TO |
|---|---|---|---|---|
| | P1 | (SEE NOTE 4) | METER CABINET | ITSS DISCONNECT\ITSS PANELBORD |
| | P2 | (2) #2 AWG + #4 AWG GND | ITSS DISCONNECT | ITSS TRANSFORMER |
| | P3 | (3) #3/0 AWG + #4 AWG GND | ITSS TRANSFORMER | TRANSFER SWITCH |
| | P4 | (3) #3/0 AWG + #4 AWG GND | TRANSFER SWITCH | GENERATOR RECEPTACLE |
| | P5 | (3) #3/0 AWG + #4 AWG GND | TRANSFER SWITCH | ITSS PANELBOARD |
| | P6 | (3) #2 AWG + #4 AWG GND | ITSS PANELBOARD | SCC DISCONNECT |
| | P7 | (3) #2 AWG + #4 AWG GND | SCC DISCONNECT | SCC PANELBOARD |
| | P8 | (2) #8 AWG + #8 AWG GND | SCC PANELBOARD | UPS |
| | P9 | (2) #8 AWG + #8 AWG GND | UPS | UPS PANELBOARD |
| 1 | P10 | (3) #10 AWG + #10 AWG GND | UPS PANELBOARD | CMS 1 |
| 1 | P11 | (3) #10 AWG + #10 AWG GND | UPS PANELBOARD | CMS 2 |
| 1 | P12 | (3) #4 AWG + #8 AWG GND | SCC PANELBOARD | VMS 1 |
| 1 | P13 | (3) #4 AWG + #8 AWG GND | SCC PANELBOARD | VMS 2 |
| 1 | P14 | (3) #10 AWG + #10 AWG GND | VMS 1 | CMS 1 / PULL BOX |
| 1 | P15 | (3) #10 AWG + #10 AWG GND | VMS 1 | CMS 1 / PULL BOX |
| 1 | P16 | (3) #10 AWG + #10 AWG GND | VMS 2 | CMS 2 / PULL BOX |
| 1 | P17 | (3) #10 AWG + #10 AWG GND | VMS 2 | CMS 2 / PULL BOX |
| | P18 | (2) #14 AWG + #14 AWG GND | UPS PANELBOARD | CCTV REMOTE POWER UNIT |
| | P19 | (2) #14 AWG + #14 AWG GND | REMOTE POWER UNIT | CCTV CAMERA |
| | P20 | #4 AWG GREEN INSULATED GND | SCC | GND ROD |

## COMMUNICATIONS CABLES

| DESIGNATION | CABLES (SEE NOTES) | FROM | TO |
|---|---|---|---|
| C1 | (1) 4 TWISTED PAIR #24 AWG | SCC | WAP |
| C2 | (1) 6-FIBER OPTIC MULTIMODE CABLE, 62.5 MICRON | SCC | VMS 1 |
| C3 | (1) 6-FIBER OPTIC MULTIMODE CABLE, 62.5 MICRON | SCC | VMS 2 |
| C4 | (1) 6-FIBER OPTIC MULTIMODE CABLE | SCC | CMS 1 |
| C5 | (1) 4 TWISTED PAIR #24 AWG | SCC | CMS 1 |
| C6 | (1) 4 TWISTED PAIR #24 AWG | CMS 1 | CMS 2 |
| C7 | (1) 4 TWISTED PAIR #24 AWG | SCC | CCTV REMOTE POWER UNIT |
| C8 | (1) COAXIAL CABLE (RG-6) | SCC | CCTV REMOTE POWER UNIT |
| C9 | (1) 4 TWISTED PAIR #24 AWG (OUTDOOR NETWORK CABLE) | SCC | RADIO ANTENNA |
| C10 | (1) 6-FIBER OPTIC MULTIMODE CABLE | SCC | POLE MOUNTED ITS ENCLOSURE |
| C11 | (1) FIBER OPTIC MULTIMODE PATCH CORD | (VARIES) | (VARIES) |
| C12 | (1) ETHERNET # 24 AWG PATCH CORD | (VARIES) | (VARIES) |
| C13 | (1) ETHERNET # 24 AWG PATCH CORD | (VARIES) | (VARIES) |
| C14 | (1) 6-FIBER OPTIC MULTIMODE CABLE, 50 MICRON | SCC | VMS 1 |
| C15 | (1) 6-FIBER OPTIC MULTIMODE CABLE, 50 MICRON | SCC | VMS 2 |

## CONDUITS

| DESIGNATION | SIZE AND TYPE | CABLES |
|---|---|---|
| ① | 3" RNMC-40 | P1 |
| ② | 3" PCRMC | P1 |
| ③ | 3" PCRMC | P2 |
| ④ | 2½" PCRMC | P3 |
| ⑤ | 2½" PCRMC | P4 |
| ⑥ | 3" PCRMC | P5 |
| ⑦ | 3" PCRMC | P6 |
| ⑧ | 3" PCRMC | P7 |
| ⑨ | 3" PCRMC | SPARE |
| ⑩ | 3" PCRMC | P10 P11 P12 P13 |
| ⑪ | 3" PCRMC | C1 C2 C3 C4 C5 C6 C7 C8 C9 C14 C15 |
| ⑫ | 3" PCRMC | C13 |
| ⑬ | 2" RNMC-40 | P20 |

## LEGEND:

[P##] / [C##] — ITEMS SHOWN DASHED MAY VARY BY INSTALLATION. SEE CONTRACT PLANS FOR SPECIFIC CABLE INSTALLATION.

## NOTES:

1. SEE DETAILS ON THE FOLLOWING STANDARD DRAWINGS FOR LOCATING CONDUITS AND CABLES LISTED IN THE TABLES ON THIS DRAWING.
2. SEE STANDARD DRAWING ITS-37 FOR A LIST OF ABBREVIATIONS IDENTIFYING THE TYPES OF CONDUITS AND CABLES LISTED ON THIS DRAWING.
3. POWER AND COMMUNICATION CABLES SHALL BE OF THE MAKE AND MODEL AS DESCRIBED IN THE SPECIFICATIONS.
4. SIZE AND QUANTITY OF INCOMING SERVICE WIRES SHALL BE AS SHOWN ON THE PLANS.
5. CABLES SHALL BE SIZED AS SHOWN ON THIS DRAWING UNLESS NOTED OTHERWISE ON THE PLANS.
6. REFER TO THE CONTRACT PLANS TO IDENTIFY WIRING REQUIRED TO BE FURNISHED AND INSTALLED FOR EQUIPMENT WHICH MAY NOT BE INCLUDED IN THESE STANDARD DRAWINGS.
7. THE CONTRACTOR SHALL FURNISH AND INSTALL CAT-5E (OR BETTER) RATED ETHERNET PATCH CORDS AS SHOWN ON ITS-47. THE PATCH CORDS AND THEIR TERMINATION SHALL NOT BE PAID FOR SEPARATELY AND SHALL BE INCIDENTAL TO THE COST OF THE INSTALLATION OF THE SCC.

| | BY | DATE |
|---|---|---|
| MADE | EMG | 10/2013 |
| TRACED | MDC | 10/2013 |
| CHECKED | EMG | 10/2013 |
| SUPERVISED | ALB | 10/2013 |

0 ½ 1 2 3 4
ORIGINAL SIZE IN INCHES

| APP. | NO. | DATE | REVISION |
|---|---|---|---|
| | 1 | 5/2014 | WIRE MODIFICATIONS |
| | 0 | 11/2013 | ORIGINAL DRAWING |

NEW JERSEY TURNPIKE AUTHORITY
**NEW JERSEY TURNPIKE**
**HCMS CONDUIT AND CABLE SCHEDULES**

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STANDARD DRAWING ITS-38

ACAD FILE NAME: NJTA-SD ITS-38.dwg Layout: .Layout1

CONTRACT NO. SHEET NO. OF

MASTER FILE: "J:\NJTA\Standard Drawings\Standard Drawings (dwg)\ITS\NJTA-SD ITS-38.dwg" LAST SAVED DATE: May 28, 2014 - 11:39 BY: MCawley