# Illinois Tollway Base Sheet Revisions

## Section M

### Base Sheet Drawings

<table>
<thead>
<tr>
<th>Drawing</th>
<th>Modification Summary</th>
<th>Effective: 2019-03-01</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-ITS-1000</td>
<td>Elevation Views Pole Mounted ITS Element Assembly</td>
<td></td>
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<tr>
<td>M-ITS-1003</td>
<td>ITS Concrete Service Pad (2 sheets)</td>
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<tr>
<td>M-ITS-1004</td>
<td>Cabinet Wiring Diagram - ITS Pole Mounted Enclosure (Solar Powered MVDS) (2 sheets)</td>
<td>New cabinet layout separating ITS enclosure and dedicated co-located solar generator/battery cabinet with four 6 V batteries.</td>
</tr>
<tr>
<td>M-ITS-1108</td>
<td>DMS Cabinet Wiring Diagram</td>
<td>Changed to Cisco 4000 series switch. \n</td>
</tr>
<tr>
<td>M-ITS-1200 to M-ITS-1217</td>
<td>Cabinet Wiring Diagrams</td>
<td>18 new ITS enclosure drawings replace old 56 ITS enclosure drawings for clarification. \n</td>
</tr>
<tr>
<td>M-ITS-1300</td>
<td>RWIS Pole, Sensor Mounting Detail</td>
<td>Pole height changed to 50 feet as standard pole for ITS with 17.5 inch bolt circle.</td>
</tr>
<tr>
<td>M-ITS-1301</td>
<td>RWIS Cabinet Wiring Diagram</td>
<td>Changed to Cisco 4000 series switch. Not connected to RWIS controller, for future use. \n</td>
</tr>
<tr>
<td>M-ITS-1303</td>
<td>Typical RWIS Grounding Schematic</td>
<td>New drawing showing RWIS grounding system with grounding cable.</td>
</tr>
<tr>
<td>M-ITS-1402</td>
<td>Pole Mounted Solar MVDS Assembly</td>
<td>Co-located solar generator cabinet redesigned as M-ITS-1004.</td>
</tr>
<tr>
<td>M-ITS-1500</td>
<td>Tower Mount Camera Details</td>
<td>Cameras shown at offset height to avoid view obstruction. Pole mounting arm revised to Axis Q6155-E IP camera.</td>
</tr>
<tr>
<td>M-ITS-1503</td>
<td>Cabinet Wiring Diagram - Tower Mounted CCTV</td>
<td>Revisted to show 24 VDC power supply, drawing drawn to scale.</td>
</tr>
<tr>
<td>M-ITS-1701</td>
<td>Flashing Sign Beacon Installation Wiring Diagram</td>
<td>Revised to show full cabinet layout accommodating flasher beacon. Re-drawn to scale. \n</td>
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<tr>
<td>M-ITS-1802, 1803, 1805, 1806, 1809, 1910</td>
<td>IPDC Facility</td>
<td>Building modified to accommodate larger generator room door, door stoppers. \n</td>
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<tr>
<td>M-ITS-1802</td>
<td>Note 2: Seal door opening and protrusion/access against rodent and bugs. Note 3: Install removable stainless bollards per Illinois Tollway Maintenance.</td>
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<tr>
<td>M-ITS-1803</td>
<td>Added 240 V service power outlet outside side wall.</td>
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<tr>
<td>M-ITS-1900</td>
<td>Conduct Details at Integral Abutment Bridge with MSE Wall (Sheet 3)</td>
<td>Removed note stating concrete encasement to be placed monolithic with the approach slab. \n</td>
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<tr>
<td>M-ITS-2000</td>
<td>100 FT. Monopole (ITS)-Series 2000</td>
<td>100 FT. Monopole Closed Circuit Television (CCTV) Camera Tower \n</td>
</tr>
</tbody>
</table>

### Dynamic Message Sign (ITS)-Series 1100

- 16 new ITS enclosure drawings replace old 56 ITS enclosure drawings for clarification.
- Consolidated equipment configurations.
- Standardized to scale equipment layout.
- Changed to Cisco 4000 series switch.
- Eliminated 24 VAC transformer and 24 VAC CCTVs. Additional 24 VDC power supply.
- Cat6 Ethernet surge protectors revised to PoE++ compatible models.

### Solar Powered Generator (ITS)-Series 1400

- Co-located solar generator cabinet redesigned as M-ITS-1004.

### Roadway Weather Information System (ITS)-Series 1300

- Pole height changed to 50 feet as standard pole for ITS with 17.5 inch bolt circle.
- Changed to Cisco 4000 series switch. Not connected to RWIS controller, for future use.
- Added IP Relay, Disconnected, for future use.
- Added secondary sensor pole cabinet wiring diagram. Cabinet is part of the design but was omitted in last year release.

### Tower Mounted CCTV (ITS)-Series 1500

- Cameras shown at offset height to avoid view obstruction. Pole mounting arm revised to Axis Q6155-E IP camera.
- Revisted to show 24 VDC power supply, drawing drawn to scale.

### Flashing Beacon (ITS)-Series 1700

- Revised to show full cabinet layout accommodating flasher beacon. Re-drawn to scale.
- Added flashing beacon, new surge suppressor.

### IPDC Facility (ITS)-Series 1800

- Building modified to accommodate larger generator room door, door stoppers.
- Additional exterior CCTV cameras.
- Added bird deterrent.
- Added exterior GFCI outlets.

### Conduit Details at Integral Abutment Bridge (ITS)-Series 1900

- Removed note stating concrete encasement to be placed monolithic with the approach slab.
- Added 0.5" PJF at the back of the approach and approach bent.
- Added 0.75" PJF between the approach slab and encasement.
- Added detail for deflection and expansion fittings at the encasement and pile bent.
- Added detail for deflection fitting at encasement and abutment.

### 100 FT. Monopole (ITS)-Series 2000

- 100 FT. Monopole Closed Circuit Television (CCTV) Camera Tower
- Sheet 4 Added sheet 4 of 4 showing hexagonal service pad.
NOTES TO DESIGNER

THIS BOC SHEET SHOWS TYPICAL NEW CONSTRUCTION. IT IS NOT A STANDARD DRAWING. IT IS DEEMED ACCEPTABLE BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

CABLE/CONDUIT REQUIREMENTS SHOWN TO CAMERAS AND REMOTE GANTRY PANELS ARE REPRESENTATIVE. ACTUAL REQUIREMENTS ARE SPECIFIED ON PLAN SHEETS OF CAMERAS AND REMOTE GANTRY PANELS. CABLES TO BE SMALL IN SIZE located a maximum of 0.75 MILE FROM THE IPDC FACILITY.
NOTES TO DESIGNER

1. THIS BASE SHEET SHOWS TYPICAL NEW CONSTRUCTION BUT IS NOT A STANDARD DRAWING. IT REQUIRE COMPLETION OF THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" NOTES SHALL BE CONFIRMED WITH THE ILLINOIS TOLLWAY BY THE DESIGNER PRIOR TO INSERTION INTO THE PLAN SET.

2. INSTALLATION OF A GANTRY AT EACH IPDC FACILITY IS TYPICAL BUT SHALL BE CONFIRMED WITH THE ILLINOIS TOLLWAY BY THE DESIGNER.

3. OPERATIONAL PROVISIONS GARD ON THIS SHEET ASSUMING THE IPDC FACILITY IS INSTALLED ALONG THE WESTBOUND DIRECTION. THE DESIGNER SHOULD ADJUST ACCORDINGLY BASED ON THE ACTUAL PLACEMENT OF THE IPDC FACILITY.

4. THE BATTERY Rack AND HVAC EQUIPMENT SHOWN ON THESE SHEET SHEETS ARE BASED ON A 30-MINUTE BATTERY RUNTIME. THE DESIGNER SHALL RESIZE AS REQUIRED IF A LONGER BATTERY RUNTIME IS SELECTED.

5. DOORS SHALL SWING OPEN 170° AND HAVE A MECHANISM TO LOCK THE DOOR IN AN OPEN POSITION.

NOTES

1. THE SPECIAL PROVISIONS FOR REQUIREMENTS ASSOCIATED WITH IPDC FACILITY PREFABRICATED BUILDING.

2. CONTRACTORS SHALL GULF OUT SPECIFIC SOURCING, AND ANY PROVISIONS RELATED TO MATERIALS AND MANUFACTURING PROCESS. ANY IMPACT TO INSTALLATION OR ACCESS TO THE SATISFACTION OF THE ENGINEER.

3. INSTALL REMOVABLE STAINLESS STEEL BOLLARDS WITH YELLOW REFLECTIVE TAPE TO PROTECT THE HVAC UNITS AND BUILDING.
NOTES TO DESIGNER

1. THIS BASE SHEET SHOWS TYPICAL NEW CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT IS USED AS A GUIDELINE BY THE DESIGNER PRIOR TO PREPARATION OF A CONTRACT. ALL MATERIALS AND SPECIFICATIONS ARE BASED ON THE ILLINOIS TOLLWAY REQUIREMENTS. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION INTO THE CONTRACT.

2. DRAWINGS OR INFORMATION USED IN THIS SHEET ASSUME THE IPDC FACILITY TO BE INSTALLED ALONG THE NORTH ELEVATION. THE DESIGNER SHALL ALLOW ACCORDINGLY BASED ON THE ACTUAL LOCATION OF THE IPDC FACILITY IN THE FIELD.

3. THE DESIGNER SHALL SPECIFY FINISHED FLOOR ELEVATIONS AS REQUIRED TO PROVIDE DRAINAGE AWAY FROM THE IPDC FACILITY EXTERIOR.

4. DOORS SHALL SWING OPEN 170° AND HAVE A MECHANISM TO LOCK THE DOOR IN AN OPEN POSITION.

5. OTHER MATERIALS AND SPECIFICATIONS ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE.

NOTES:

1. SEE SPECIAL PROVISIONS FOR REQUIREMENTS ASSOCIATED WITH IPDC FACILITY PREFABRICATED BUILDINGS.

2. IPDC FACILITY PREFABRICATED BUILDINGS.

3. REQUIRED TO PROVIDE DRAINAGE AWAY FROM THE IPDC FACILITY EXTERIOR.

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NOTES TO DESIGNER

1. THIS SHEET SHOWS TYPICAL NEW CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING; IT REQUIRES COMPLETION BY THE DESIGNER. REFER TO EQUIPMENT LAYOUT (M-ITS-1806), SINGLE LINE DIAGRAMS (M-ITS-1807), AND PANELBOARD SCHEDULES (M-ITS-1808) FOR COMPLETE CONDUIT REQUIREMENTS.

2. DIRECTIONAL INDICATIONS USED ON THIS SHEET ASSUME THE IPDC FACILITY IS INSTALLED ALONG THE WESTBOUND DIRECTION. THE DESIGNER SHALL ADJUST ACCORDINGLY BASED ON THE ACTUAL PLACEMENT OF THE IPDC FACILITY.

The Designer shall accept the responsibility of the design on this sheet upon completion and insertion into a contract. All notes to designer boxes shall be removed by the designer prior to insertion of the sheet into the plan set.

NOTES:

- FIRE PROTECTION: REFER TO FIRE PROTECTION PLAN.
- SECURITY: REFER TO SECURITY PLAN.
- EXTINGUISHER: REFER TO Ext. 4-4" CONDUIT
- MDP: REFER TO MICROSTATION FILES AND THE "CADD STANDARDS MANUAL"
- ATS: REFER TO EQUIPMENT LAYOUT (M-ITS-1806), SINGLE LINE DIAGRAM (M-ITS-1807), AND PANELBOARD SCHEDULES (M-ITS-1808) FOR COMPLETE CONDUIT REQUIREMENTS.

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NOTES:

1. SEE IPDC FACILITY CABLE/CONDUIT SCHEDULES AND NOTES SHEET M-ITS-1800.
2. SEE IPDC FACILITY SINGLE LINE DIAGRAM SHEET M-ITS-1807.
3. TERMINATE ALARM CABLES ON TERMINAL BLOCK ON TSIC BOARD. SEE IPDC FACILITY TSIC TERMINAL BLOCK LAYOUT SHEET M-ITS-1813 FOR DETAILS.
4. THE DOORWAY FOR THE GENERATOR ROOM SHALL BE WIDE ENOUGH TO ALLOW FOR THE INSTALLATION AND REMOVAL OF THE GENERATOR SET.
5. TERMINATE ALARM CABLES ON TERMINAL BLOCK ON THE INSTALLATION SHEET INTO THE PLAN SET.
6. INSTALL DOOR CLOSER WITH HOLD OPEN FEATURE.
7. HVAC SYSTEM SHALL HAVE A POSITIVE PRESSURE.
METERING

NOTE 1
3PDT
30A
GCS
CONTROL
B
POWER
C
WITH LP
SPD
MDP
SINGLE LINE DIAGRAM
N

1. CONTACT IS AT TO INITIATE ENGINE STARTING CONTROLS.
2. THE ROADWAY LIGHTING METER HOUSING, DISCONNECT SWITCH, LIGHTING CONTROLLER, AND ALL ROADWAY LIGHTING APPURTENANCES WITHIN THE IPDC FACILITY PREFABRICATED BUILDING SHALL BE PROVIDED BY OTHERS UNDER SEPARATE CONTRACT.
3. BUILDING SHALL BE PROVIDED BY OTHERS UNDER SEPARATE CONTRACT. ALL ROADWAY LIGHTING METER HOUSING, DISCONNECT Switch, LIGHTING CONTROLLER, CONTACT IN ATS TO INITIATE ENGINE STARTING CONTROLS. (SEE DESIGNER NOTE 4)
4. REMOTELY EQUIPMENT LOCATED IN IPDC FACILITY EQUIPMENT LOCATED IN IPDC FACILITY AND ONE REMOTE GANTRY PANEL ARE SHOWN.
5. TWO REMOTE CAMERA/MVDS ENCLOSURES POWERED FROM THE IPDC FACILITY ARE DEPENDENT ON PLACEMENT OF CAMERAS AND REMOTE GANTRY PANELS ARE REPRESENTATIVE. ACTUAL REQUIREMENTS ARE DEPENDENT ON PLACEMENT OF CAMERAS AND REMOTE GANTRY PANELS. QUANTITY PANELS SHALL BE LOCATED A MAXIMUM OF 0.75 MILE FROM THE IPDC FACILITY.
6. THE UPS SIZE SHALL BE DETERMINED BY THE DESIGNER BASED ON THE CALCULATED LOAD.
7. THE UPS SIZE SHALL BE DETERMINED BY THE DESIGNER BASED ON THE CALCULATED LOAD.
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OUTDOOR LIGHTING CONTACTOR WIRING DIAGRAM

SINGLE LINE DIAGRAM
# Illinois Tollway

## Engineering

### Notes to Designer

1. The base sheet shows typical new construction but it is not a definitive schedule. It is before completion by the designer prior to insertion into a contract.

2. Microstation files and the "CADD Standards Manual" are available on the Illinois Tollway's system. The designer shall accept the responsibility of the design of this sheet upon its completion and insertion into a contract. All notes to designer boxes shall be removed by the designer prior to inserting the sheet into the plan set.

3. Two remote cameras/PPS enclosures powered from the IPDC facility and one remote gantry panel are shown. Precise requirements will vary by site.

### Panelboard Schedule

<table>
<thead>
<tr>
<th>Circuit No.</th>
<th>PHASE/WIRE</th>
<th>VOLTAGE</th>
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**Total Watts: 39,485W**

**Subtotal: 19,741W**

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### Rack Receptacle Schedule

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### Equipment Schedule

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- Two remote cameras/PPS enclosures powered from the IPDC facility and one remote gantry panel are shown. Precise requirements will vary by site.
NOTES:
1. See IPDC Facility Cable/Conduit Schedule and Notes Sheet (M-ITS-1800).
2. Receptacles and lighting conduit shall be 3/4" with 2/0 #12 and UPC #0O-0 unless otherwise noted.
3. Provide GFI receptacles in total for the equipment racks as shown. The receptacles shall be mounted to the side of the cable tray.
4. The IPDC Facility Legend, Symbols List, Abbreviations, and Equipment Schedules Sheet (M-ITS-1809) is for additional details.

NOTES TO DESIGNER:
1. This base sheet shows typical new construction but it is not a standard drawing. It requires completion by the designer prior to construction in a contract's specifications and the "CADD Standards Manual" are available on the Illinois Tollway website. The designer shall accept the responsibility of the design of this sheet upon its completion and insertion into the set. All "Note to Designer" boxes shall be removed by the designer prior to insertion into the set.
2. The IPDC Facility is installed along the northbound direction. The designer shall adjust accordingly based on the actual placement of the IPDC Facility.

COMMUNICATIONS AND EQUIPMENT RACK ELEVATION
(FACING NORTH)

1PDC FACILITY LIGHTING AND RECEPTACLE PLAN
NOT TO SCALE
NOTES:
1. DETAIL SHOWS INSTALLATION IN UNPAVED AREA. WHEN INSTALLING IN A PAVED AREA, BURROW GROUND WELL IN THE PAVEMENT.
2. GROUND WELLS ARE REQUIRED AT EVERY GROUND ROPE.
3. PROVIDE TYPICAL SV IN THE CONTRACT FOR ALL GROUND CABLES UNDER CONSTRUCTION.
4. ALL COPPER GROUND BARRIERS MUST BE USED FOR GROUND BUS. EXPLOSION-PROOF COPPER CONDUCTORS ARE TO BE USED AS AN ELECTRICAL CONDUCTOR AND CABLES MUST BE OF THE CURRENT VERSION OF ASTM STANDARDS.
5. GROUND, WELLS AND MONOFILES USED FOR CONNECTION TO GROUND BUS BARRIERS MUST BE SOLID COPPER.
6. USED TO MANUFACTURE SPECIFICATION (ERICO PRODUCTS OR BURNDY). THE COPPER GROUND BUS BARRIERS MUST BE MOUNTED TO THE BAR WITHIN EQUIPMENT AREA.
7. PROVIDE A #2 AND GROUND BUS FROM THE FRAME OF EACH EQUIPMENT RACK TO THE GROUND BUS AS SHOWN. THE CABLE MUST BE BOLTED TO THE FRAME USING A SEAMLESS HEAVY DUTY COMPRESSION TERMINAL.
8. A 2" ROPE GAP SHALL BE PROVIDED BETWEEN THE DIPS OF THE TWO CONDUCTORS THAT MAKE UP THE INTERNAL PERIMETER GROUND BUS CONNECTION.
9. ALL EQUIPMENT LOCATED IN THE PDC FACILITY IS INSTALLED IN THE INTERNAL PERIMETER GROUND BUS CONDUCTOR WITH A #2 AND GROUND BUS. ALL CONNECTIONS MUST BE EXOTHERMICALLY WELDED.
10. THE GROUND BUS BARRIERS MUST BE BOLTED TO THE EQUIPMENT RACK TO THE GROUND BUS AS SHOWN. THE CABLE PROVIDE A #2 AWG GROUND CABLE TO THE FRAME OF EACH EQUIPMENT RACK TO THE GROUND BUS CABLE TRAY ABOVE EQUIPMENT RACKS.
11. THE COPPER GROUND BUS BARRIERS SHALL BE MOUNTED TO THE GROUND BUS SUPPORTING 2 INCHES FROM THE WALL SURFACE. THE INTERNAL PERIMETER GROUND BUS CONDUCTOR.
12. INTERNAL PERIMETER GROUND BUS CONNECTIONS MUST BE INSTALLED HORIZONTALLY ALONG THE WALL APPROXIMATELY 2 FEET ABOVE GROUND FLOOR. THE CONDUCTOR SHALL BE SUPPORTED 2 INCHES FROM THE WALL SURFACE OR INCREASED STANDOFFS. THE STANDOFFS SHALL BE INSTALLED AT INTERVALS AS NECESSARY TO KEEP THE CONDUCTOR SECURELY IN PLACE WITHOUT NOTICEABLE SAGS AND BENDS.
13. THE GROUND BUS BARRIERS MUST BE SUPPORTED 2 INCHES FROM THE WALL SURFACE. THE CONDUCTOR SHALL BE INSTALLED HORIZONTALLY ALONG THE WALL APPROXIMATELY 8 FEET ABOVE GROUND FLOOR AND MOUNTED TO WALL USING A MOUNTING BRACKET WITH INSULATION.

NOTES TO DESIGNER:
1. REFERENCES INDICATING USE OF EXOTHERMIC WELD IN THIS SHEET ASSUME THE PDC FACILITY IS INSTALLED ALONG THE INTERNAL PERIMETER OF THE BUILDING. THE DESIGNER SHALL REVIEW THE CONTRACTS BASED ON THE ACTUAL LOCATION OF THE PDC FACILITY.
2. WHERE A CANTILEVER VANITY IS PROVIDED, MOUNT GROUND BUS CABLE TO VANITY COLUMN INSTALLATION OF A CANAL AT EACH PDC FACILITY IS TYPICAL BUT SHALL BE CONFORMED TO THE TOOLKIT BY THE DESIGNER.
NOTES:
1. SEE IPDC FACILITY CABLE/CONDUIT SCHEDULES AND NOTES SHEET (M-ITS-1801) FOR POWER CABLE INFORMATION.
2. PROVIDE GROUND BUS CONNECTION BETWEEN UPS PANEL AND MASTER GROUND BUS BAR.
3. PROVIDE 3/4" SCHEDULE 40 PVC CONDUIT FOR GROUND CABLE CONNECTING POWER CABLE INFORMATION.
4. PROVIDE EXOTHERMIC CONNECTION TO INTERNAL PERIMETER BUS CONDUCTOR.
5. GROUNDING SHALL BE PER MOTOROLA R56 STANDARD.
NOTES:
1.?>>\text{Power Supply Connections to Security Cameras}
2.?>>\text{Power Supply Connections to Security Cameras}
3. >>\text{All Electrical Cables to Cameras Shall Have Surge Protection}

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NOTE TO DESIGNER
This base sheet shows typical new construction but it is not a standard drawing. It is intended to provide a visual representation of the projected installation. A complete set of construction drawings, specifications, and other documents shall be provided by the manufacturer and per NEC requirements. The designer will accept the responsibility of the design of this facility upon its completion and acceptance of this base sheet into the plan set.
**NOTES:**

1. **TERMINAL STRIP INTERCONNECT CENTER (TSIC) BLOCKS ARE LOCATED ON THE ITC BUILDING. SEE ITC FACILITY EQUIPMENT LAYOUT SHEET (M-ITS-1813) FOR THE TSIC INSTALLATION LOCATION.**
2. **ROUTE TO COVER GROUND CABLE FROM THE GROUND BUS BAR TO INTERNAL TERMINAL BLOCKS.**
3. **ALL EQUIPMENT SHALL BE LICENSED AND INSTALLED IN THE CONTRACTED AREA OF THE BUILDING.**
4. **IN SHEELD GROUND CABLE, SEE THIS SHEET FOR TERMINAL BLOCK IDENTIFICATION.**
5. **PROVIDE WIRE DUCT AS SHOWN ON THE DRAWING. THE DUCT SHALL BE PROVIDED IN ACCORDANCE WITH THE CONTRACT FOR THE TSIC INSTALLATION.**
6. **PROVIDE A SHEET OF CABLE COLOR CODE CHART FOR THE USE IN THE ITC FACILITY PREPARATION BUILDING AS SHOWN ON THIS SHEET.**
7. **TERMINAL BLOCKS ARE LOCATED IN THE TERMINAL STRIP INTERCONNECT CENTER (TSIC) BLOCKS ARE LOCATED IN THE ITC FACILITY PREPARATION BUILDING - SEE THIS SHEET FOR A COMPLETE LAYOUT OF THE TSIC.**
8. **TERMINAL BLOCKS, TERMINAL BLOCK WIRING TERMINAL BLOCKS, AND GROUND BUS BARS ARE SHOWN DIAGRAMMATICALLY. WIRING DUCT IS SHOWN ON THIS SHEET.**
9. **ROUTE #6 COPPER GROUND CABLE FROM GROUND TERMINAL BLOCK TO GROUND BUS BAR.**
10. **COIL SPARE SHEETS FOR STORAGE.**
11. **THE CONTRACTOR SHALL IDENTIFY EACH CABLE ON AS-BUILT DRAWINGS.**
12. **SHIELD GROUND SHEET PRIOR TO INSTALLATION.**
13. **EACH TERMINAL BLOCK WIRING TERMINAL BLOCKS, TERMINAL BLOCK MARKER STRIPS, AND GROUND BUS BARS ARE SHOWN ON THIS SHEET.**
14. **PROVIDE A SHEET OF CABLE COLOR CODE CHART FOR THE USE IN THE ITC FACILITY PREPARATION BUILDING AS SHOWN ON THIS SHEET.**
15. **TERMINAL BLOCKS ARE LOCATED ON THE TERMINAL STRIP INTERCONNECT CENTER (TSIC) BLOCKS ARE LOCATED IN THE ITC FACILITY PREPARATION BUILDING - SEE THIS SHEET FOR A COMPLETE LAYOUT OF THE TSIC.**
16. **TERMINAL BLOCKS, TERMINAL BLOCK WIRING TERMINAL BLOCKS, AND GROUND BUS BARS ARE SHOWN DIAGRAMMATICALLY. WIRING DUCT IS SHOWN ON THIS SHEET.**
17. **ROUTE #6 COPPER GROUND CABLE FROM GROUND TERMINAL BLOCK TO GROUND BUS BAR.**
18. **COIL SPARE SHEETS FOR STORAGE.**
19. **THE CONTRACTOR SHALL IDENTIFY EACH CABLE ON AS-BUILT DRAWINGS.**
20. **SHIELD GROUND SHEET PRIOR TO INSTALLATION.**
21. **EACH TERMINAL BLOCK WIRING TERMINAL BLOCKS, TERMINAL BLOCK MARKER STRIPS, AND GROUND BUS BARS ARE SHOWN ON THIS SHEET.**
22. **PROVIDE A SHEET OF CABLE COLOR CODE CHART FOR THE USE IN THE ITC FACILITY PREPARATION BUILDING AS SHOWN ON THIS SHEET.**

**EQUIPMENT LEGEND:**

1. **2 EA. TERMINAL BLOCKS WITH DATA SIGNAL PROTECTION, TERMINAL BLOCK 20 terminals, Catalog Number: GT-20P**
2. **5 EA. TERMINAL BLOCKS WITH DATA SIGNAL PROTECTION, TERMINAL BLOCK 20 terminals, Catalog Number: GT-20P**
3. **3 EA. TERMINAL BLOCKS WITH DATA SIGNAL PROTECTION, TERMINAL BLOCK 20 terminals, Catalog Number: GT-20P**
4. **25 EA. UNIVERSAL TERMINAL BLOCKS, TERMINAL BLOCK 20 terminals, Catalog Number: GT-20P**
5. **10 EA. GROUND TERMINAL BLOCK, TERMINAL BLOCK 20 terminals, Catalog Number: GT-20P**
6. **2 EA. GROUND TERMINAL BLOCKS, TERMINAL BLOCK 20 terminals, Catalog Number: GT-20P**
7. **1 EA. CABLE MARKERS, GROUND TYPE PC-3**
8. **2 EA. GROUND TERMINAL BLOCKS, TERMINAL BLOCK 20 terminals, Catalog Number: GT-20P**
9. **1 EA. CABLE MARKERS, GROUND TYPE PC-3**
10. **1 EA. CABLE MARKERS, GROUND TYPE PC-3**
11. **1 EA. CABLE MARKERS, GROUND TYPE PC-3**
12. **1 EA. CABLE MARKERS, GROUND TYPE PC-3**
13. **1 EA. CABLE MARKERS, GROUND TYPE PC-3**
14. **1 EA. CABLE MARKERS, GROUND TYPE PC-3**
15. **1 EA. CABLE MARKERS, GROUND TYPE PC-3**
16. **1 EA. CABLE MARKERS, GROUND TYPE PC-3**
17. **1 EA. CABLE MARKERS, GROUND TYPE PC-3**
18. **1 EA. CABLE MARKERS, GROUND TYPE PC-3**
19. **1 EA. CABLE MARKERS, GROUND TYPE PC-3**
20. **1 EA. CABLE MARKERS, GROUND TYPE PC-3**

**NOTE TO DESIGNER:**

THIS SHEET SHOWS TYPICAL NEW CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. ALL "NOTES TO DESIGNER"boxes SHALL BE SHOWN ON THE AS-BUILT DRAWINGS AS SHOWN IN THE PLAN SET.
NOTES:

1. IPDC FACILITY IDENTIFICATION SIGN MATERIAL SHALL MEET THE REQUIREMENTS OF ARTICLE 720 OF THE STANDARD SPECIFICATIONS.

2. IPDC FACILITY IDENTIFICATION SIGNS SHALL BE MOUNTED UPON THE BUILDING USING BOLTS AND WASHERS ACCORDING TO ARTICLE 720.04 OF THE STANDARD SPECIFICATIONS.

NOTE TO DESIGNER:

This sheet shows typical new construction but it is NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.