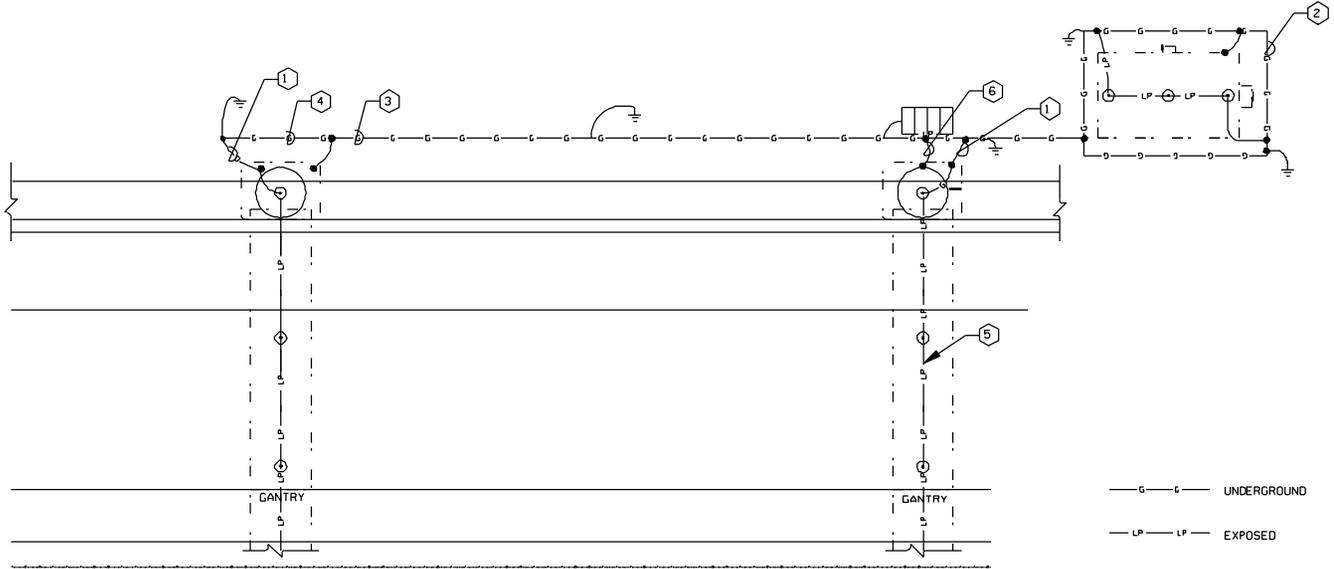


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|-------|-------------------|-----------|--------------|
| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
| GA | NH000-0575-0K0201 | | |



TYPICAL RAMP LIGHTNING PROTECTION
SCALE: N.T.S.

REFERENCE NOTES

- ① 1/2" Ø GROUND CONDUCTOR BONDED TO GANTRY STRUCTURE AND TO GROUND LOOP CONDUCTOR, BY EXOTHERMIC WELDING PROCESS COORDINATE WITH STRUCTURAL DWG'S.
- ② 30' LONG X 5/8" DIAMETER COPPER-CLAP STEEL GROUND ROD.
- ③ 2/0 BARE STRANDED COPPER GROUND LOOP CONDUCTOR; 36" BELOW GRADE. DO NOT ROUTE GROUND CONDUCTOR UNDER LOOPS.
- ④ CLASS I COPPER LIGHTNING CONDUCTOR.
- ⑤ GANTRY MOUNTED AIR TERMINAL. COORDINATE WITH GANTRY DETAILS.
- ⑥ BOND LIGHTNING PROTECTION SYSTEM TO GROUND RING.
- ⑦ GROUND AUXILIARY METAL PER NEPA 780 REQUIREMENTS.

- SPECIAL NOTES:**
- NOTE 1: IMPORTANT NOTICE: THIS DRAWING IS AN INCOMPLETE WORK-IN-PROGRESS AND ITS USE IS SUBJECT TO NOTE 1 ON DRAWING NO. 1-05.
 - NOTE 2: IN ADDITION TO THE QUALIFICATIONS DESCRIBED IN NOTE 1 ABOVE REGARDING ANY USE OF THIS WORK-IN-PROGRESS DRAWING, ALL INFORMATION DEPICTED ON THIS DRAWING REFLECTS A DESIGN SCHEME DEVELOPED PRIOR TO THE SELECTION OF A DEFINITIVE DESIGN APPROACH FOR THE TOLL COLLECTION OPERATION AND MAINTENANCE OF THE PROJECT CORRIDOR. THE FINAL DESIGN APPROACH SELECTED BY GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT) MAY BE SIGNIFICANTLY DIFFERENT THAN THAT DEPICTED ON THIS DRAWING, AND PRIOR TO ANY USE OF THIS DRAWING, THE USER SHOULD VERIFY THE DESIGN APPROACH ULTIMATELY SELECTED BY GDOT.
 - PLANS SHOW WHAT IS TO BE IMPLEMENTED BY THE ROADWAY CONTRACTOR AND POTENTIAL EQUIPMENT LAYOUTS FOR THE SYSTEM INTEGRATOR.
 - LOCATION AND NUMBER OF DEVICES FOR ILLUSTRATIVE PURPOSES ONLY. SPECIFIC TECHNOLOGIES UTILIZED, PLACEMENT, AND NUMBER TO BE PROPOSED BY INTEGRATOR.
 - THIS SHEET FOR DIAGRAMMATICAL USE ONLY. NO STRUCTURAL CALCULATIONS WERE PERFORMED.
 - ROADSIDE TOLLING SYSTEM IS INTENDED TO BE A TYPICAL INSTALLATION USING OFF-THE-SHELF COMPONENTS THAT CAN EASILY BE MAINTAINED.
 - TOLLING DETECTION ZONES TO BE COORDINATED WITH THE TOLLING EQUIPMENT CONTRACTOR.
 - ROADSIDE EQUIPMENT BUILDINGS CONTAINS THE INFRASTRUCTURE TO SUPPORT THE ELECTRICAL, COMMUNICATIONS, AND TOLLING EQUIPMENT.

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|------------|----------|----------|------|--|------|------|------|
| CHWS FILED | 11/20/09 | TRACKING | | DRG | CHKR | SUPV | APPR |
| DRAWN BY | C | NO | DATE | DESCRIPTION | BRIG | CHKR | SUPV |
| CHECKED BY | | 11/20/09 | | PLS SET FOR GDOT'S TERMINATION FOR COMMENCEMENT OF PROJECT | C38 | | |
| SUPERVISOR | | | | | | | |
| APPROVED | | | | | | | |



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA



I-75 / I-575 NORTHWEST CORRIDOR

TOLLING
LIGHTNING PROTECTION PLAN

DRAWING NO.
36-B