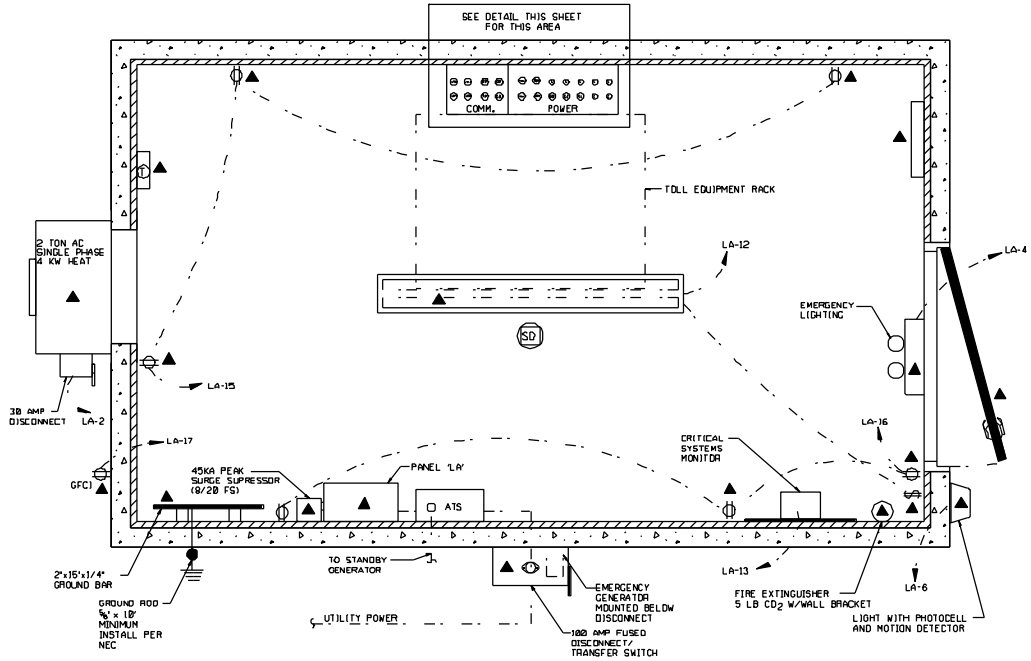
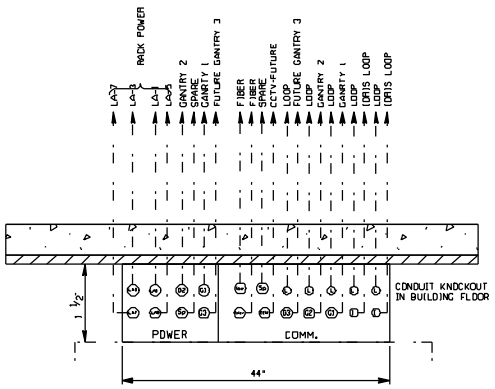
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	NH000-0575-040(8)		





POWER AND COMMUNICATION DETAIL
N.T.S.

Panel 'LA'

Main Size (Amps) & Type:	100 MCB
Panel Rating (Amps):	100
Mounting:	Surface (Provided With Building)
VOLTAGE:	120/240/1/3
AIC SYMM:	22,000
Fed From:	Primary Power Disconnect

	Note	Poles	T	CKT	A KVA		B KVA	
Equipment Rack UPS		1	30	1	2.6	3.2		
Equipment Rack		1	20	3			1.2	0.8
Equipment Rack		1	20	5	1.2	0.4		
Equipment Rack		1	20	7			1.2	1.5
ATI Utility		1	20	9	0.2	0.6		
CCTV (Future)		1	20	11			0.2	0.2
Critical Systems Monitor		1	20	13	0.8			
General Receptacles		1	20	15			1.2	1.8
GFCI Outside Receptacle		1	20	17	0.8			
Spare		1	20	19				
Spare		1	20	21				
Spare				23				
Spare				25				
Spare				27				
Spare				29				
Panel:	Conn KVA	Demand Adj Fact	Demand KVA	Demand Amps	9.8		8.1	<-- Phase Load KVA
Load Type					81.7		67.5	<-- Connected Amps
Motor	4.0	1	4	11.1	BASED ON COINCIDENT LOADS ONLY			
Other	0.0	1	0	0.0				
25% Largest Motor			0.0	0.0				
TOTALS	4.0		4.0	2.0				

Notes				
RAMP TYPICAL				
CKT	Tr	Poles	Note	
2	30	1	2 Ton A/C Package Unit	
4	20	1	Emergency Lights	
6	20	1	Entrance Light	
8	20	1	Parking Light (Future)	
10	20	1	Camera Power	
12	20	1	Building Lights	
14	20	1	Spare	
16	20	1	General Receptacles	
18			Spare	
20			Spare	
22			Spare	
24			Spare	
26			Spare	
28			Spare	
30			Spare	

* ALL CABLING IS 2 #12, 1 #12G; 3/4" CONDUIT UNLESS NOTED OTHERWISE.

** THIS IS TYPICAL FOR PANEL 'LA'.

*** WIRE SIZE MAY CHANGE AS FINAL DESIGNATION BY POWER COMPANY.

NOTE: BUILDING ACCESSORIES ARE TO BE PROVIDED AND INSTALLED BY BUILDING MANUFACTURER.

▲ DENOTES TO BE FACTORY INSTALLED AND ORDERED WITH BUILDING

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. 1-01.
- 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 BUILDING CONTAINS THE INFRASTRUCTURE TO SUPPORT THE ELECTRICAL, COMMUNICATIONS, AND TOLLING EQUIPMENT.

CHRIS RUSSO	11/30/09	
DRAWN BY		
CHECKED BY		
SUPERVISOR		
APPROVED		

TRACKING

NO	DATE	DESCRIPTION	DRIG	CHKR	SUPV	APPR
C	11/30/09	PLOTTED PER GDOT'S TERMINATION FOR CONVENIENCE DIRECTION	CSR			

GTP GEORGIA TRANSPORTATION PARTNERS

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PBSJ

I-75 / I-575 NORTHWEST CORRIDOR

TOLLING
EQUIPMENT BUILDING
ELECTRICAL PLAN

DRAWING NO. 38-6

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