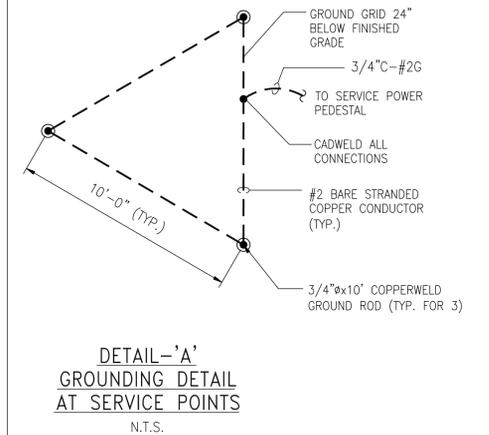
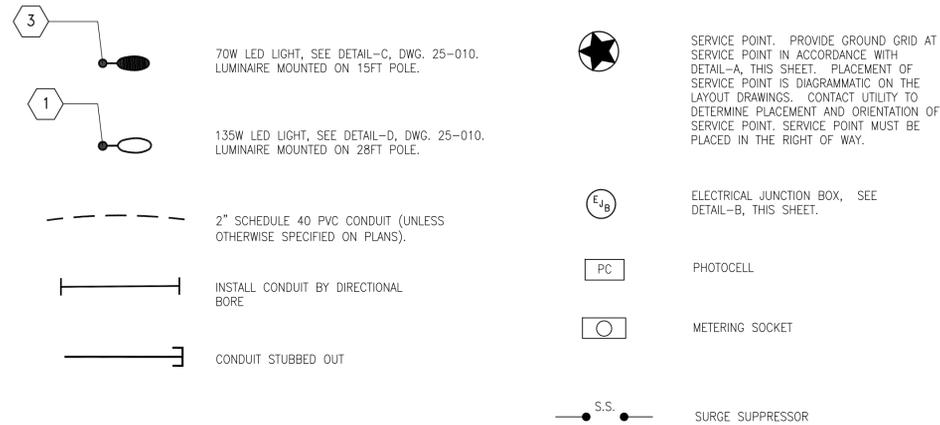


GENERAL NOTES

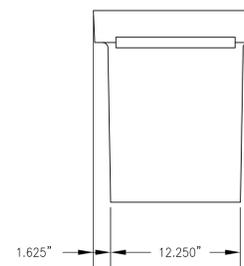
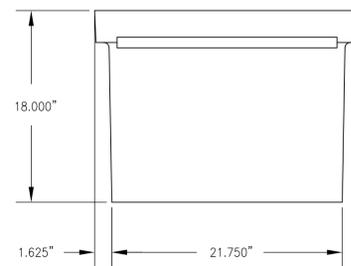
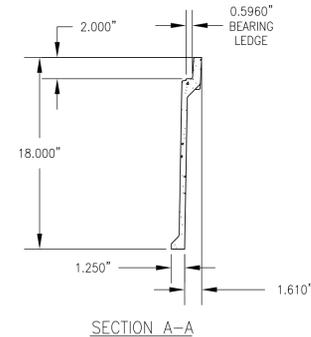
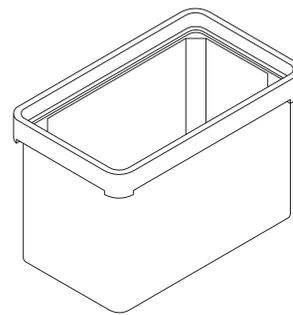
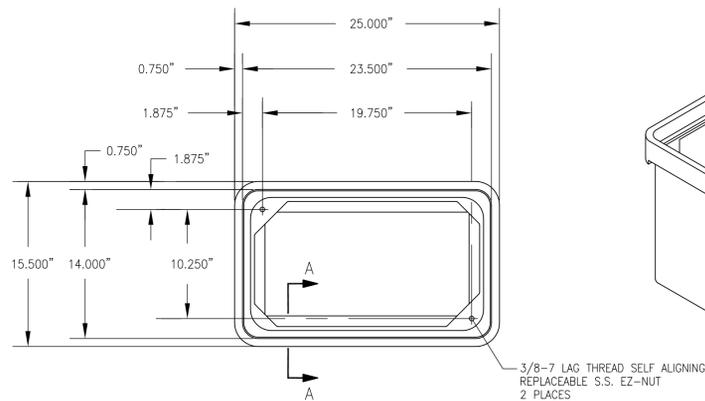
- ALL LAMPS SHALL BE LED UNLESS OTHERWISE NOTED.
- OPERATING VOLTAGE SHALL BE 240 VOLTS.
- ALL FUSES AND FUSEHOLDERS SHALL BE IN-LINE TYPE AND WATERPROOF. PROVIDE FUSES, FUSEHOLDERS AND MOLDED BREAKAWAY PLUG & CONNECTOR ASSEMBLY FOR POWER CABLE IN THE HANDHOLE OF EACH POLE. THE FUSEHOLDERS SHALL BE BREAKAWAY TYPE.
- CONDUIT ACCESSORIES, SUCH AS EXPANSION JOINTS, PULLBOXES, CONDULETS, ELBOWS, FLEXIBLE CONDUIT, ETC., SHALL BE INCLUDED IN THE PRICE BID FOR CONDUIT.
- THE CONTRACTOR SHALL INSTALL A NYLON PULL CORD OR GALVANIZED PULL WIRE IN EACH EMPTY CONDUIT. THE COST OF THIS ITEM WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF THE CONDUIT.
- LIGHTING DESIGN CRITERIA FOR ROUNDABOUTS:
 - LIGHT LOSS FACTOR = 0.8
 - MIN AVERAGE MAINTAINED ILLUMINATION FOR ROUNDABOUTS = 1.2fc
 - UNIFORMITY RATIO (AVG./MIN.) = 4:1 MAXIMUM
- THE LIGHTING CONTRACTOR SHALL FURNISH A ONE YEAR WRITTEN WARRANTY FOR PARTS AND DEFECTIVE WORKMANSHIP ON THE LUMINAIRES.
- THE CONTRACTOR SHALL BEWARE OF OVERHEAD POWER LINES AND LOCATE LIGHTING STANDARDS SUCH THAT THEY WILL HAVE TEN FEET MINIMUM CLEARANCE FROM DISTRIBUTION LINES OR 20 FEET MINIMUM CLEARANCE FROM TRANSMISSION LINES.
- ALL CONDUIT AND ELECTRICAL JUNCTION BOX (EJB) PLACEMENTS ON THE LAYOUT DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL INSTALL THEM WITHIN RIGHT OF WAY. EJB'S SHOULD NOT BE INSTALLED IN SIDEWALKS IF POSSIBLE.
- INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. PROJECT LIGHTING IS TO BE IN ACCORDANCE WITH GDOT SPECIFICATION SECTIONS 680 TO 683 HIGHWAY LIGHTING AND ALL REFERENCED SECTIONS THEREIN.
- CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES BEFORE INSTALLATION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXTRA COST TO THE CLIENT.
- NO CONDUIT IS TO BE RUN ON PRIVATE PROPERTY.
- ALL CONDUIT WHICH IS RUN UNDER A ROADWAY SHALL BE INSTALLED PRIOR TO ANY NEW PAVING. NO NEW PAVING SHALL BE CUT TO INSTALL ELECTRICAL LINES.
- ALL ELECTRICAL MATERIALS, SUCH AS CONDUIT, CABLES, WIRES AND JUNCTION BOXES, SHALL BE NEW, U.L. LISTED AND MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, AND THE AMERICAN NATIONAL STANDARDS INSTITUTE.
- ALL CONDUITS MUST BE SEALED AFTER INSTALLATION OF WIRES AND SUCCESSFUL TESTING OF THE CIRCUITS. THE SEALING COMPOUND SHALL BE OZ/GEDNEY TYPE 'DUX' OR APPROVED EQUAL.
- ALL CABLES MUST BE CLEARLY LABELED AT EACH JUNCTION BOX AND TERMINATION POINT. THE WIRE MARKERS SHALL BE PVC HEAT SHRINKABLE TUBULAR TYPE AND SHOW THE CIRCUIT NUMBER.
- THE COST OF THE FOUNDATIONS FOR THE LIGHT POLES SHALL BE INCLUDED IN THE PAY ITEM FOR THE LIGHTING STANDARDS
- FOR ALL LIGHT POLES, A MINIMUM OF 1'-6" MUST BE MAINTAINED AT ALL TIMES FROM THE FACE OF THE CURB (OR EDGE OF PAVEMENT) TO THE OUTSIDE EDGE OF THE LIGHT POLE.
- EXPOSED CONDUIT SHALL BE RIGID STEEL UNLESS OTHERWISE NOTED.
- ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL ROUTE ALL CONDUIT RUNS BETWEEN EACH FIXTURE AND FROM THE LAST FIXTURE TO THE UTILITY COMPANY SERVICE LOCATION IN THE MOST DIRECT ROUTE POSSIBLE. CONTRACTOR SHALL INSTALL PULLBOXES AS NEEDED AND APPROVED BY GDOT/ENGINEER.
- ALL POLES SUPPLIED FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH GDOT'S QUALIFIED PRODUCTS LIST (OPL) FOR APPROVED SUPPLIERS FOR PROJECTS RECEIVING FEDERAL FUNDING.
- ALL LUMINAIRES SUPPLIED FOR THIS PROJECT MUST MEET THE GDOT STANDARD SPECIFICATIONS SECTION 921-LUMINAIRES AND 927-LUMINAIRES, LED FOR PROJECTS RECEIVING FEDERAL FUNDING.
- RIGID CONDUIT, INSTALLED ON STRUCTURES, SHALL BE SUPPORTED AT LEAST EVERY 10 FEET AND WITHIN 3 FEET OF JUNCTION BOXES, LUMINAIRES, ETC.

LEGEND



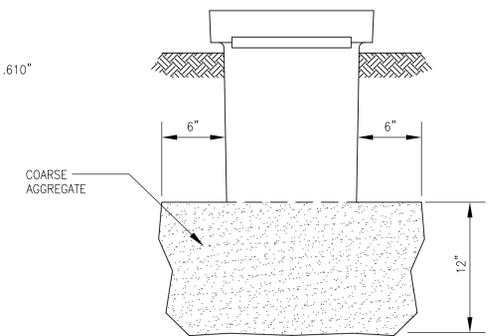
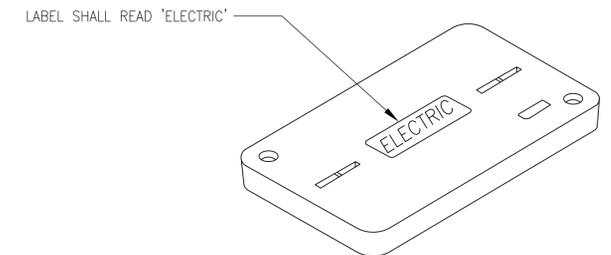
RELEASED FOR CONSTRUCTION 03/08/2016

DETAILED ESTIMATE - RIVERSIDE DRIVE AT I-285			
ITEM NO.	DESCRIPTION	UNITS	QUANTITY
682-1404	CABLE, TP XHHW, AWG NO 10	LF	7300
682-1405	CABLE, TP XHHW, AWG NO 8	LF	4800
682-1406	CABLE, TP XHHW, AWG NO 6	LF	90
682-6222	CONDUIT, NONMETL, TP 2, 2 IN	LF	4200
682-6225	CONDUIT, NONMETL, TP 2, 2 1/2 IN	LF	50
682-9000	MAIN SERVICE PICK UP POINT	LS	1
682-9022	ELECTRICAL JUNCTION BOX REINFORCED PLASTIC MORTAR	EA	8
681-xxxx	LIGHTING STD, 28 FT MH, 2.5 FT ARM	EA	18
681-xxxx	LIGHTING STD, 15 FT MH, 2 FT ARM	EA	8
681-xxxx	LUMINAIRE, TP 3, 70 W, LED	EA	8
681-xxxx	LUMINAIRE, TP 3, 135 W, LED	EA	18
615-1200	DIRECTIONAL BORE - 2 IN	LF	650



OPEN BOTTOM JUNCTION BOX
(NOT TO SCALE)

(PROVIDE 12" COARSE AGGREGATE AT THE BOTTOM OF THE BOX.)



BASE OF BURIED OPEN BOTTOM BOX
(NOT TO SCALE)

NOTES

- JUNCTION BOXES AND COVERS MUST BE DESIGNED PER ASTM C-857-87 DESIGNATION A-16(HS20-44) AND ASTM C-497.
- JUNCTION BOXES SHALL HAVE A WEATHER PROOF GASKET.

DETAIL-B'

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INFRASTRUCTURE CONSULTING & ENGINEERING

REVISION DATES	

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE DELIVERY

Lighting Legend, Notes and Details

Riverside Drive at I-285 Interchange Improvements

DRAWING No. 25-001