

**PROPOSAL FOR:
GATTACA**

FROM: Light It Up Electric
ESTIMATOR NAME: Sir Major

Division 16000 – Electrical Systems
PRICE: \$2,210,122



1. SCOPE OF WORK INCLUSIONS:

- Coordination with other trades
- 3D Modeling
- Pre-Construction Services
- Provide as-built documents of all subsurface conduit installed.
- Shoring, as required is included. Access ladders are included.
- Include equipment grounding and wiring per the general notes.
- Include conduit penetrations through fire rated partitions.
- Each fixture must be provided as a complete unit, including fittings and lamps per the general notes.
- Blocking required for electrical fixtures, as described in the general notes, is by others. Exact size and location of the blocking is to be provided by the electrical subcontractor.
- Remove all pallets from the jobsite.
- Provide the temporary power distribution. Cost to include all maintenance of the temporary power and lighting system. System shall have control with the intent to turn off system during off hours.
- All primary and secondary electrical service including trenching, backfill, compaction, transformer base, and conduit and concrete encasement in quantities per plan and OWNER requirements. Note: Import select backfill to meet all utility backfill requirements.
- Telephone service conduit in 6-4" exposed from HSEB BET to GATTACA basement MDF per the servicing utilities requirements.
- Light pole fixtures, conduit and circuiting including anchor bolts and templates.
- Furnish and install diesel Emergency Generators Automatic Transfer Switches with bypass isolation, initial fuel fill, and associated feeders as specified.
- Furnish and install one (1) new 600A switch in existing Primary Metered SES, one (1) new 2500kVA Unit substation, extend existing primary feeder conduits to new Unit Substation and install new 4/0 15kV primary conductors from existing Primary SES to new Unit Substation.
Furnish and install Switchboard, Distribution Panelboards, Panelboards, 2000A aluminum Bus Duct, 800A aluminum Bus Duct, 100A Bus Duct Switches, 30kVA, 45kVA, 112.5kVA, 150kVA, 225kVA transformers and associated feeders as specified.
- Furnish and install Building lighting fixtures and LED fixtures and associated branch circuitry.
- Furnish and install branch outlets and associated circuitry
- Provide power and low voltage raceway for roller shades in Seminar Rooms.
- Furnish and install mechanical power per Electrical, Mechanical and Plumbing BOD.

- Furnish and install Fused Disconnects for all Mechanical VFD's
 - Furnish and install a Lightning Protection System.
 - Furnish and install an Electrical Ground Riser.
 - Furnish and install a Lighting Control System.
 - Furnish and install Security System empty conduits for doors and cameras.
 - Furnish and install empty conduits as indicated for a future Audio/Visual System.
 - Furnish and install a Cable Tray System
 - Provide third party testing requirements.
 - Furnish and install loose starters as shown.
 - Commissioning Assist.
- Subcontractor shall provide a minimum two (2) year labor/material warranty, following substantial completion, unless a longer warranty period is specified.
- Participation in the project LEED Certification program as further defined in the Scope of Work and Contract Documents.
- Subcontractor has included required participation in LEED recycling program / construction waste management segregation.
- Subcontractor shall actively participate in the DPR LEAN Construction program.
 - There is no parking on the project site. Each subcontractor, affiliated employees, and lower tier subcontractors, will be required to arrange for all necessary offsite parking and shuttling of crews, tools, equipment, etc., to and from the project site, at no additional costs to the Contractor or Owner.
- As a prerequisite to starting of work, every subcontractor and major supplier, and all employees assigned to work on the GATTACA must attend a required Project Safety Orientation class, not to exceed 30 minutes. To facilitate the process, the Project Safety Orientation will be provided by the Contractor at the project site on a regular schedule. Subcontractors and employees will not be permitted to work on the project site until the Contractor has issued evidence of completing the Project Safety Orientation. All subcontractors are required to attend a Preconstruction meeting before start of work, per DPR Environmental Health & Safety Plan (EHSP), Revision 7.
- complete and operational building systems meeting or exceeding industry standards.
- Subcontractor shall provide all product data, shop drawings, and samples (AEISS mockups required.) as required for system approvals.
 - Specification Sections Division 8, Division 10, Division 14, Division 22,23 and raceway scope typically required for Division 27,28 as they pertain to the scope of work.

2. Exclusions

- Taxes,
- Bonds
- Permits
- Installation of BMS conduit and conductor
- Firestopping
- Concrete poles bases
- Casework task lighting
- Furnish or installation of theatrical rigging or lighting.
- Furnishing or installing any Security, A/V, Voice/Data, and all other low voltage system cable, equipment and devices

3. LABOR RATES:

Light It Up Electric

LABOR	CREW MIX	STRAIGHT TIME	OVER TIME (TIME + ½)	DOUBLE TIME
General Foreman	%	\$76.00	\$114.00	\$152.00
Foreman	%	\$58.00	\$87.00	\$116.00
Journeyman	%	\$54.00	\$81.00	\$108.00
Apprentice	%	\$34.00	\$51.00	\$68.00

4. VE Options

- Use different light fixture that meets specifications all office space in TI portion of work reducing the overall price to \$105,244.

5. Change Order

Subcontractors combined overhead and profit percentage markups used to calculate change order amounts shall be limited to the percentages allowed by the Prime Contract but, in no case shall they exceed the following rates:

DESCRIPTION	OVERHEAD & PROFIT	
	Additive	Deductive
Labor	15 %	15 %
Material	15 %	15 %
Equipment	15 %	15 %
Sub-Subcontractors	5 %	5 %