26 05 13 MEDIUM VOLTAGE CABLE

PART 1: GENERAL

A.

SAM HOUSTON STATE UNIVERSITY DIVISION 26 ELECT RICAL DESIGN AND CONSTRUCTION STANDARDS

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system. The alternator shall be oversized and rated feastt125% of the specified kW/kVA at 80 degree rise for non-linear load considerations.

- C. The enginegenerator set shall be capable of picking up a minimum of 100% nameplate and connected kW and power factor, less applicableadeg factors, in one sp with the unit at operating temperature.
- D. The enginegenerator set shall have a motor starting or surge KVA capability of three times the rated KVA based upon a recovered sustained RMS voltage drop of no more than 10% of no load voltage with the spec

1. CCT of 4000K ad CRI 80

LED Lighting

A. Screwin retrofit lamps

- 1. Shall meet DOE's Energy Star or Design Light Consortium performance criteria for qualified screwin or pin-based LED lamps.
- 2. Shall have Lamp CCTs conforming to ANSI C78.377A color binning and utilize a 4 step MacAdam Ellipse Algorithm binning process (Philips Optibin or equal) within each retrofit lamp for greater CCT consistency.
- 3. The CCT shall be 5000K unless otherwise approved by the University. The CRI shall be 80.
- 4. Shall be tested in accordance with 1810 lumen depreciation test. Provide to the University, test results of each unique lamp. The L70 rated life result shall be a minimum of 25,000 hours for MR11, 16 and candelabra lamps; 40,000 hours for PAR 20, 30, 38 and BR30 lamps.

B. Power Supplies

1. Dimmable power supplies shall allow the light output to be maintained at the lowest control setting (prior to off) without dropping out.

C. Exit Signs

- 1. Fixtures shall be LEC or LED, hard wired, perimeter lit and redlear background type.
- 2. If a back-up circuit is not available, then exit sign must be a battery back-up type with self diagnostics that shall perform both-89 and annual 90 inutetests with LED indication.

2.02 EXTERIOR LUMINAIRES

- A. The performance criteria is the same as interior luminaires plus the additional or "in lieu of" criteria below:
 - 1. Lamp CRI shall be 70 for metal halide and LED light sources.
 - 2. Shall be durable, corrosion resistant fixtures that are readily maintainable and have minimal luminaire O&M costs

- B. The following luminaire descriptions are to establish design intent and to set a standard of quality. All luminaires shall be UL listed for wet or who locations depending on the application.
- 1. Area and Parking Lot Luminaire(\$10 EXCEPTIONS without prior approval)

CREE - BETA LED Area Lighting Fixture: LED Area Lighting "The Edge" Type Vshort

Model #: Beta LED# AR EDG-5SR3-24-EUL-BZ-350

Spec: LED minimum Type V short 6000k 263ci Lumens voltage 120-270 wet listed

Color: Dark Bronze

Parking Lot Pole:

United Lighting Standards 30' Model # SSHP-30-6-7-T2MB

Specs: 6" Square hinged steel pole, height 30'

2. Pedestrian Walk, Plaza Light Standard (NO EXCEPTIONS without prior approval

CREE - BETA LED Fixture: The edge Round Luminaire

Model# BLD-EDR-5M-R5-06-E-UL-BZ-350

Spec: LED, minimum 5,250 lumens voltage 120-270, wet listed

Color: Dark Bronze

Walkway Pole:

United Lighting Standards 12' Aluminum Pole

Model # RSHA1521-T2DB

Specs: Round hinged Aluminum (num)-3ug n W30210.4 -904 Tr(n W)1Td ()TjTr(n W)1Td ()TjTr(

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3.01 INTERIOR LIGHTING

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