

FILE NAME: C:\MY DRIVE\PROJECTS\2019\19159_26 NW 6TH AVE (HATCHER)\DEL\DRW\DRW-321-001-00 -- PWR PLAN\RO2 -- OPEN\19159-DRW-321-100-00_02.DWG PLOT DATE: 1/29/2021 1:16 PM; SHT SIZE: ARCH D; PLOT SCALE: 1:1;

SOLID STATE AREA LIGHTING

RAZAR SERIES-LED

SPECIFICATIONS

OPTICAL HOUSING

Heavy cast low copper aluminum (A356 alloy, <0.2% copper) assembly with integral cooling fins. The Optical Panel mounting surface is milled flat (surface variance <±.002") to facilitate thermal transfer of heat to housing and cooling fins. Solid barrier wall separates optical and electrical compartments. The optical and electrical compartments are integrated to create one assembly. Minimum wall thickness is .188".

LED OPTICS

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely seal each individual emitter to meet an IP66 rating. In asymmetric distributions, a micro-reflector inside the refractor re-directs the house side emitter output towards the street side and functions as a house side shielding element. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce standard site/area distributions. Panels are field replaceable and field rotatable in 90° increments.

LED DRIVER(S)

Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F/-40°C. Driver(s) is/are UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer, held down by universal clamps to facilitate easy removal. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50, 60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3kV internal surge protection. Luminaire supplied with 20KV surge protector for field accessible installation.)

LED EMITTERS

High output LED's are utilized with drive currents ranging from 350mA to 1050mA, 70CRI Minimum. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

AMBER LED's

PCA (Phosphor Converted Amber) LED's utilize phosphors to create color output similar to LPS lamps and have a slight output in the blue spectral bandwidth. TRA (True Amber) LED's utilize material that emits light in the amber spectral bandwidth only without the use of phosphors.

FINISH






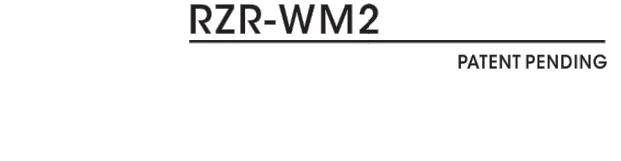
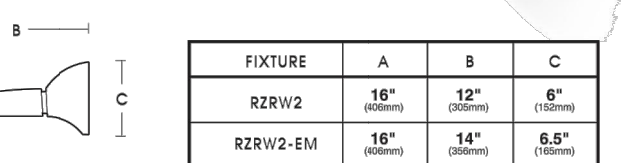

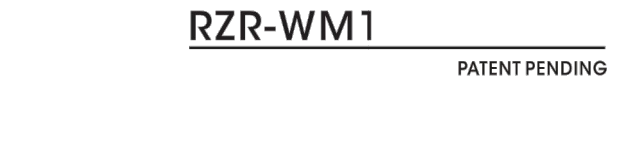
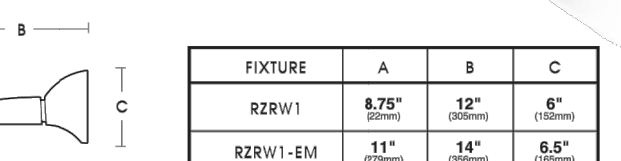


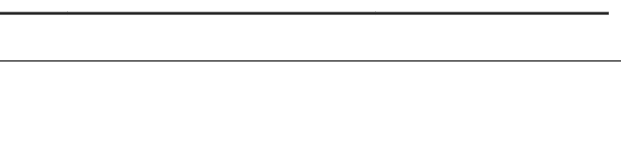


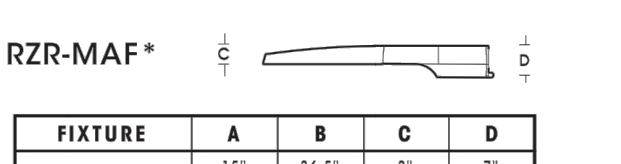
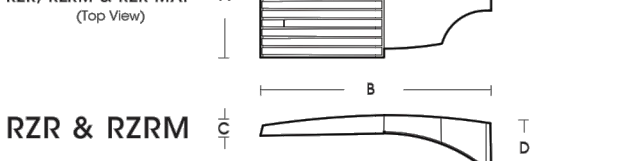
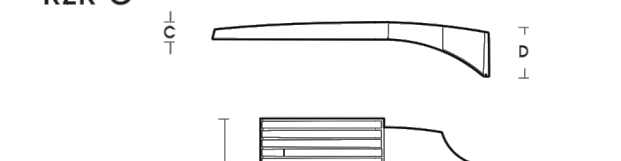
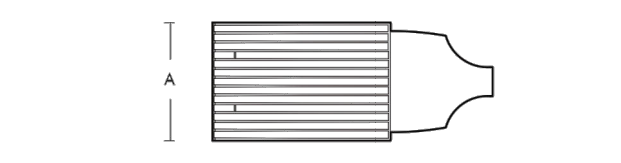
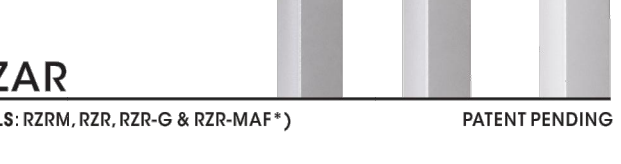

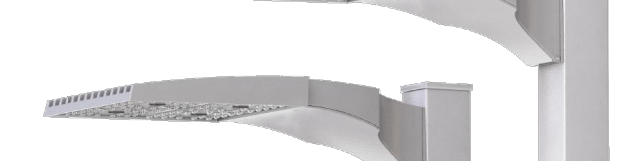
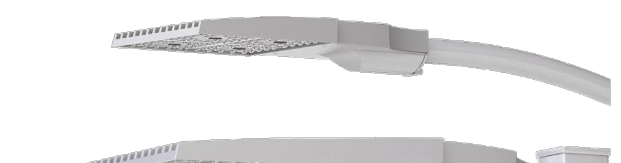
Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step media blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.

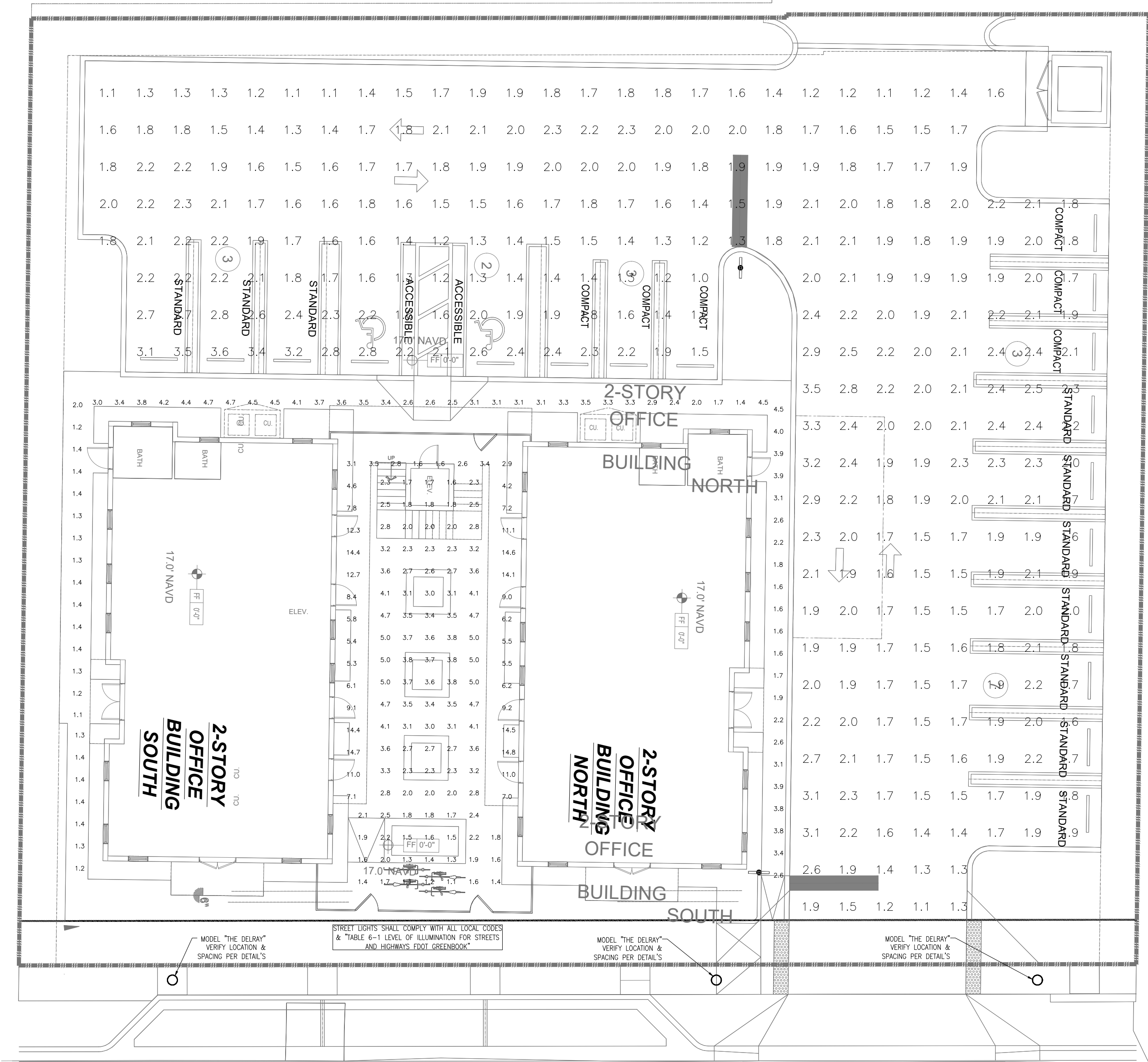
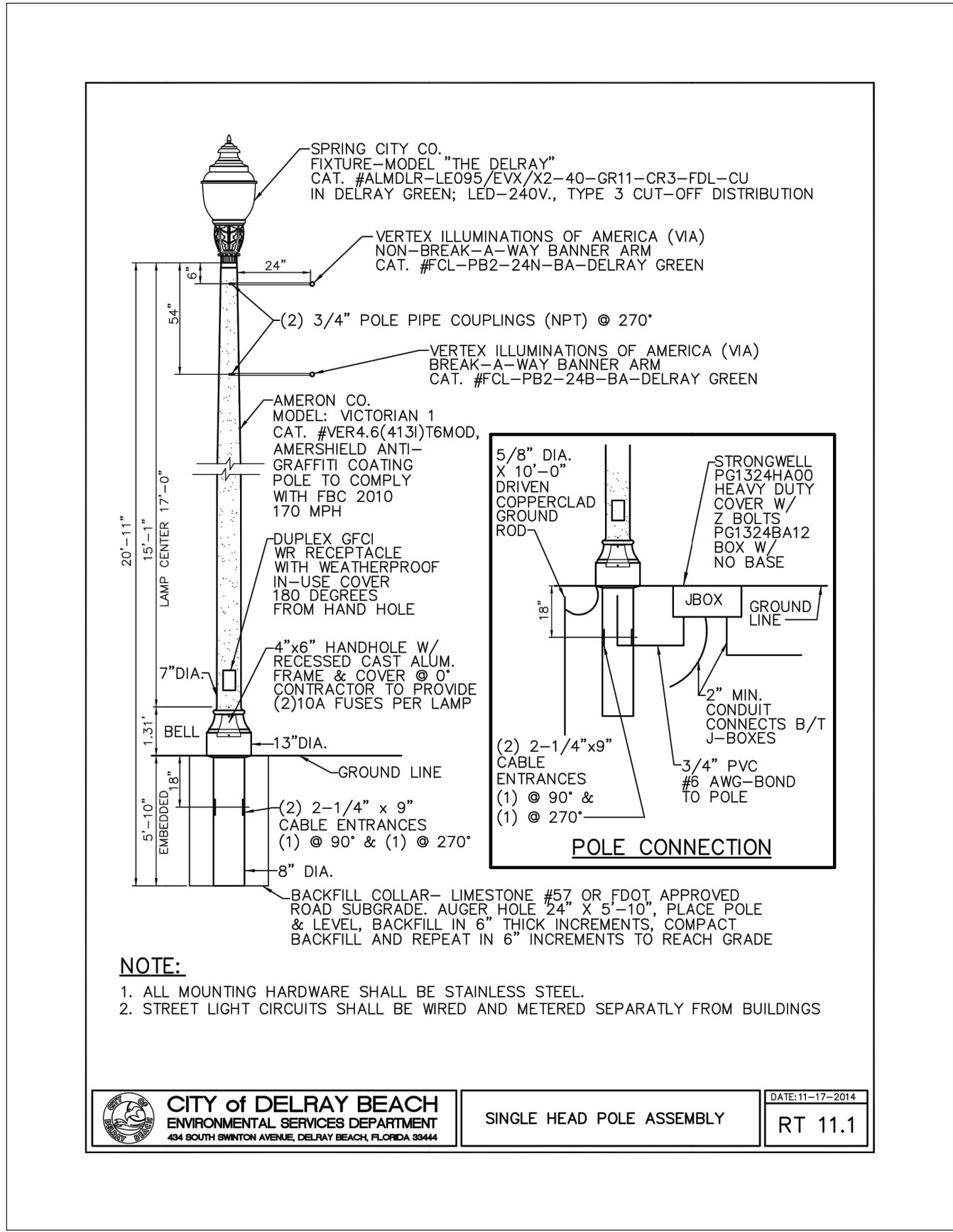
MOUNTING FITTER/ELECTRICAL HOUSING

Replaces standard Electrical Housing. Fits standard 2 3/8" O.D. horizontal tenon, two (2) straps with two (2) bolts each encircle the lower half of the tenon. Upper half of the tenon rests on self-centering straps that position the angle of the luminaires at 0°, +1.5°, +1.5 or +3° up from the horizontal. All hardware is stainless steel.

PROJECT NAME: FIXTURES 'SA', 'SB'

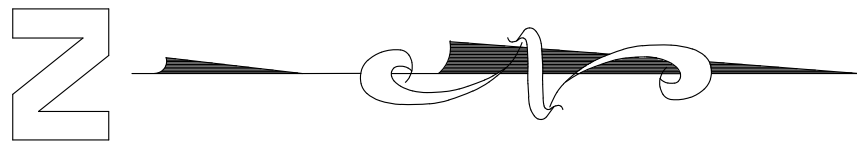
PROJECT TYPE:



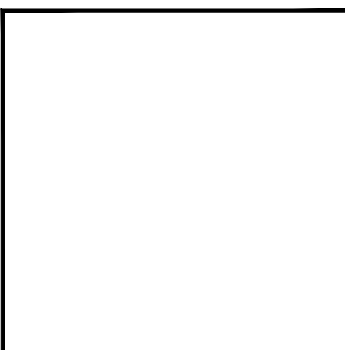


CITY OF DELRAY STREET LIGHTING PLAN

SCALE: 3/32" = 1'-0"



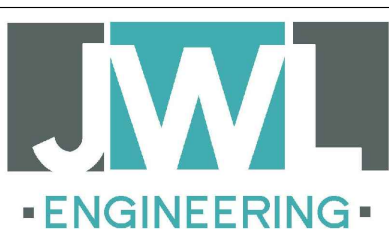
SHEET ADDITION



REVISIONS	BY
INITIAL ISSUE	OL/JL 02.28.20
△BDC REVS	BW/JL 08.31.20
△BDC REVS	BW/JL 01.28.21

NEW BUILDING

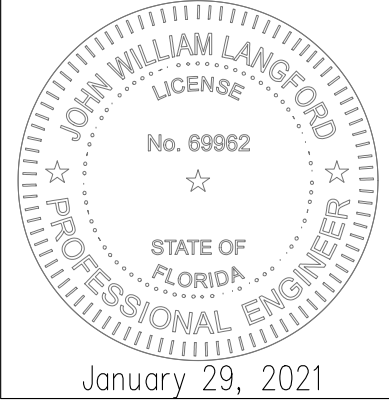
LOT 20 & 26 NW 6TH AVE,
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ANY DESIGN CHANGES TO THE SYSTEM DESCRIBED IN THESE PLANS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER OF RECORD WILL VOID THESE PLANS. ALL EXPENSES INCURRED DUE TO THESE CHANGES WILL BE THE RESPONSIBILITY OF THE PARTY PERFORMING SUCH CHANGES.

JOHN LANGFORD, FL#69962



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DRAWN JL
DATE 07/03/19
SCALE AS SHOWN

SHEET

CITY OF DELRAY
STREET LIGHTING
PLAN

E102