SECTION 01 01 01

SCOPE OF WORK – Lakewood Elementary School CANOPY

1. Project:

1.1 The following is summary of work required for the installation of a new canopy walkway covering.

1.1.1. Project Location: 1675 Highway 396, Myrtle Beach, SC 29575

1.1.2. Owner: Horry County Schools

2. Summary of Work

2.1 This work includes the provision of all labor, tools, equipment, supervision, materials and administration to integrate the work outlined in this project manual.

2.2 The Contractor is responsible for identifying the location of all utilities. Any utilities that are interrupted or damaged by the Contractor or subcontractor must be repaired before the Contractor leaves the job site that day. Any interruption in service will need to be coordinated and approved in advance with the HCS Project Manager.

2.3 Work in this section shall include design, fabrication and installation of a completely welded, extruded aluminum canopy system. All work shall be in complete accordance with the aerials and this specification.

2.4 References

2.4.1. Aluminum Design Manual 2000, Specifications & Guidelines for Aluminum Structures

2.4.2. ASCE 7, Minimum Design Loads for Buildings and Other Structures

2.4.3 American Architectural Manufactures Association (AAMA)

2.4.4 American Society for Testing and Materials (ASTM)

2.5 Submittals

2.5.1 Product Data: Submit manufacturer's product information, specifications and installation instructions for components and accessories.

2.5.2 Shop Drawings: Submit complete erection drawings showing attachment system, column and gutter beam framing, transverse cross sections, covering and trim details, and option installation details to clearly indicate a proper assembly of components.

Detailed shop drawings shall be submitted, sealed by a State Registered Structural Engineer.

2.5.3 Certification: Submit written certification prepared and signed by a State Registered Structural Engineer verifying that framing design will safely resist wind uplift loading requirements of the current International Building Code (IBC), as well as complying with ANSI/ASCE 7.

2.6 Quality Assurance

2.6.1 Codes and Standards: Comply with provisions of the following except as otherwise indicated: Current International Building Code (IBC) and American Welding Society (AWS) standards for structural aluminum welding.

2.6.2 Manufacturer: Walkways will be installed at three (3) different locations at the school. Obtain aluminum covered walkway system from only one (1) manufacturer, although several may be indicated as offering products complying with requirements. The Contractor MUST submit to the Procurement Specialist descriptive literature on a proposed walkway system for approval no less than ten (10) days prior to the bid opening.

2.6.3 Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication where possible, to insure proper fitting work.

2.6.4 Coordination: Coordinate work of this section with work of other sections which interface with covered walkway system (sidewalk, curbs, building fascias, etc.). All existing overhead supported canopies will need to be taken down and transported to the Facilities Department located at 1160 E. Hwy. 501, Conway, SC 29526. The old canopies must be neatly stacked and placed on Contractor-provided pallets.

3. Product Specifications

3.1 Materials

3.1.1 Aluminum Extrusions: All sections shall be extruded aluminum 6063 alloy, heat treated to T-6 temper.

3.1.2 Finishes: Two-Coat Fluoropolymer (Kynar): AAMA 2605. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in both color coat and clear topcoat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions. Color to be Dark Bronze to match existing canopies.

3.2 Components – Canopies marked “A, B, & C”

3.2.1 Columns: Shall be 6” x 6”. Columns shall be radius cornered tubular extrusions of size specified by manufacturer’s structural engineer with cutout and internal diverter for drainage where indicated. Circular downspout opening in column is not acceptable.

3.2.2 Beams: Shall be 6” x 8” beams with open-top tubular extrusions, top edges thickened for strength and designed to receive deck members in self-flashing manner.

3.2.3 Deck: Shall be 6” x 3” x .060” pan & cap extruded self-flashing sections interlocking into a composite unit.

3.2.4 Fascia: Fascia shall be an extruded “J” Shaped 7” profile.

3.3 Fabrication

3.3.1 Drainage: Water shall drain internally from deck to beams to columns, for discharge out to rain diverters at or below ground level as indicated on architectural drawings.

3.3.2 Deck Construction: Deck shall be manufactured of extruded modules that interlock in a self-flashing manner. Interlocking joints shall be positively fastened at 18” o.c. creating a monolithic structural unit capable of developing the full strength of the sections. The fastening must have minimum shear strength of 350 lbs. each. Deck shall be assembled with sufficient camber to offset dead load deflection.

3.3.3 All canopy areas above doorways was must be flashed back into the brick façade.

4. Installation and Site work

4.1 Preparation

4.1.1 Erection shall be performed after all concrete, masonry, and roofing work in the vicinity is complete and cleaned.

4.1.2 All materials and debris from footing spoils and material packaging & cut off shall be disposed of offsite.

4.2 Installation

4.2.1 Columns: Shall be installed via core drills in existing concrete. Size as determined by South Carolina Registered Engineer.

4.2.2 Erection: Protective cover shall be erected true to line, level and plumb at height indicated in drawings, with surfaces free from distortion or other defects in appearance.

4.2.3 Lighting shall be provided at new canopy locations as indicated on construction documents. See lighting specification for details. The contractor will be responsible for the wiring, conduit and all light fixtures. The contractor must tie into an electrical circuit on either a photo eye or timer for the light operations. No circuit can have over an 80% load.

4.2.4 All exterior holes created from the removal of the overhead support canopies must be properly caulked to create a watertight barrier. The caulk must match in color to the building's façade.

4.3 Cleaning

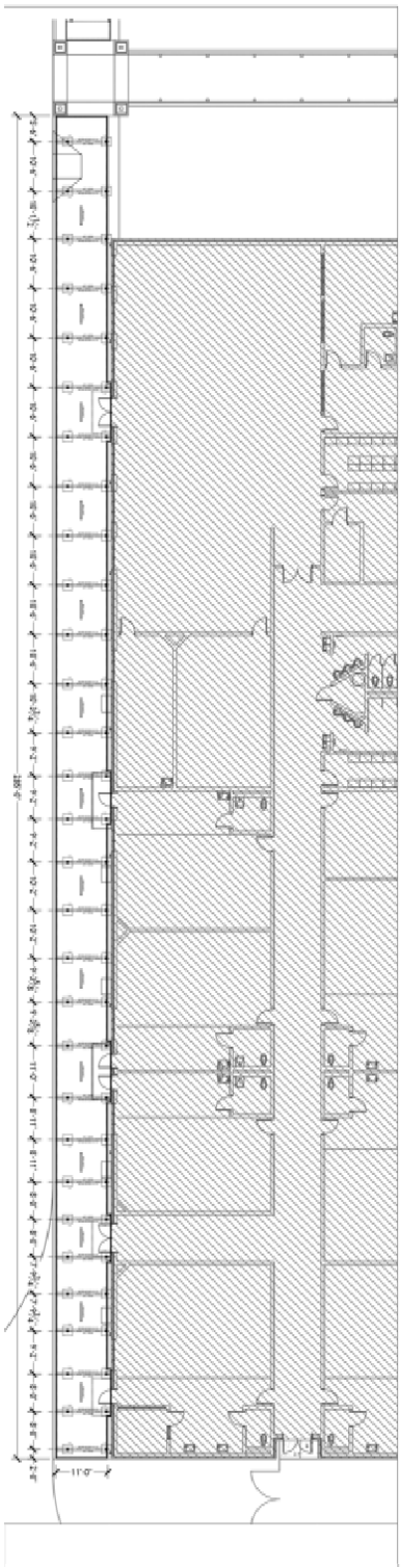
4.3.1 All protective cover components shall be cleaned promptly after installation. Remove protective film from members. Clean canopy of dirt, grease, handprints, and other blemishes. Leave area in a neat, clean, and acceptable condition.

5. Specifics:

HORRY COUNTY SCHOOLS – Lakewood Elementary School

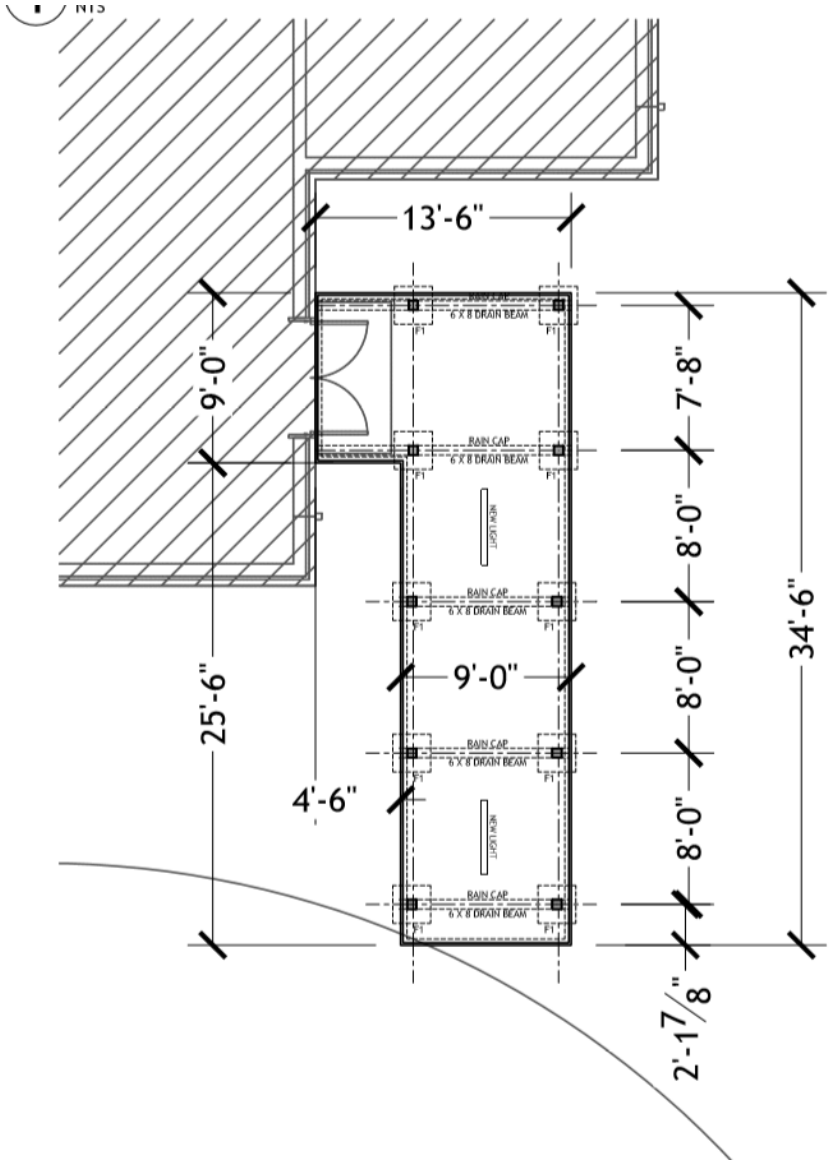
The yellow areas represent the locations of the new canopies.

Canopy area A



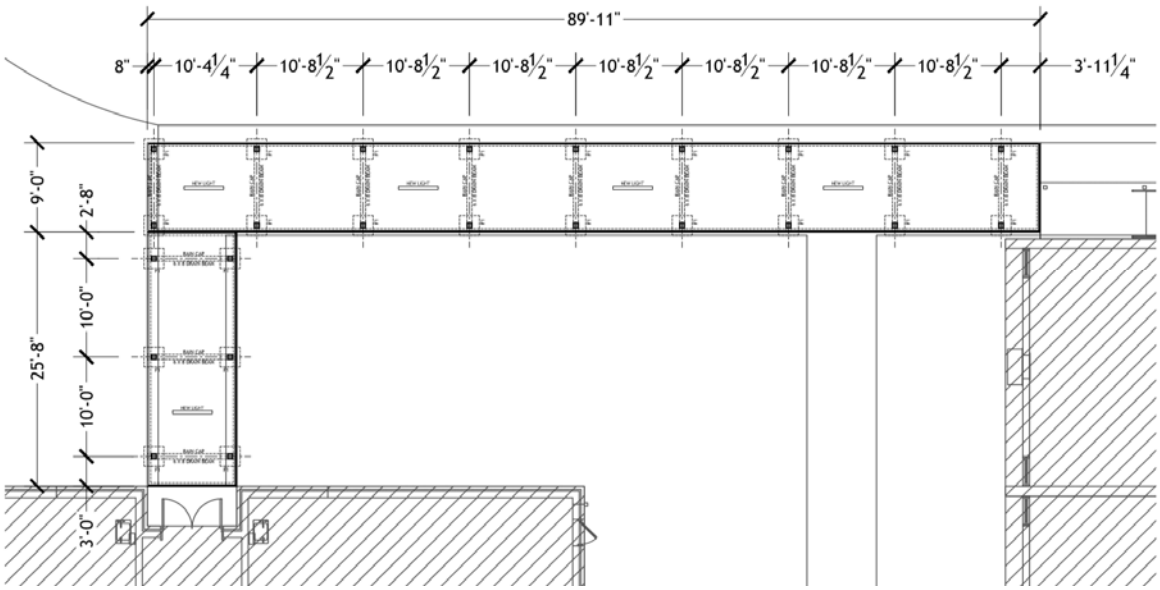
Contractor Initials ___ District Initials ___

Canopy Area B



Contractor Initials ___ District Initials ___

Canopy Area C



VISION 4

Vandal Resistant

VPF 4 Series Fluorescent

WALL / CEILING/ PENDANT MOUNT LAMPS: T5, T5HO

Fixture Type | Date

Job Name | Approved By

Catalog Number - - - - -

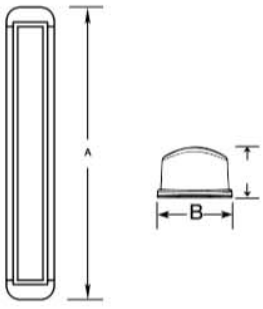
SPECIFICATIONS

ADA Compliant

Description	The Vision 4 series features an all aluminum construction and optional wet location listing which allows it to be used in many challenging environmental conditions. Designed in conjunction with an opthalmologist, the polycarbonate lens provides complete control of glare and lamp image while maintaining the high efficiency of clear optical material. The Vision 4 series can be row mounted to any length. Natatorium finish is standard for all versions of this fixture.
Housing	Marine grade heat treated extruded aluminum. Chemically primed and finished with robotically applied polyester powder coat.
Lens	Extruded UV stabilized opal polycarbonate with integral prisms. Maximum wall thickness 0.160". Secured to housing with die cast aluminum clamps and stainless steel TORX® head screws.
End Caps	Die-cast marine grade aluminum with conduit knockouts that are visible from interior of end cap.
Ballast	Electronic high frequency ballast with less than 10% total harmonic distortion, 120V-277V only. 347V optional.
Sockets	Precision spring loaded snap type for maximum impact damping.
UL Listing	U.L., C.UL., Damp Standard, Wet optional.
Lifetime Warranty	Luminaire LED Incorporated will repair or replace any fixture damaged due to vandalism for the lifetime of the installation.

DIMENSIONAL DATA

	A	B	C
VPF42HO	26.10	4.35	2.58
VPF43HO	37.91	4.35	2.58
VPF44HO	49.72	4.35	2.58



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Luminaire LED Incorporated products are manufactured in the USA with components purchased from USA suppliers, and meet the Buy American requirements under the ARRA. Content of specification sheets is subject to change; please consult our website for current product information.

Rev: 2/17

Contractor Initials ___ District Initials ___