FACPAC Contract Change Order Supplemental Information Form (Ref# 57709)

Form Status: Saved

Tier 1 Project: Estill Springs Elementary Phase 2 Renovations & Addition - ESSER III
BG Number: 22-207 District: Estill County (HB678)
Status: Active Phase: Project Initiation (View Checklist)

Contract: Rising Sun Developing, Inc, 0002, General Trades
Type: CM Bid Package Proposed

Change Order Number	2-5
Time Extension Required	No
Date Of Change Order	3/24/2023
Change Order Amount To Date	Increase

Construction Contingency

Calculations below are project wide. Remaining negative Construction Contingency may require the submission of a revised BG1.

Current Approved Amount	$138,450.00
Net Approved COs	$53,717.17
Remaining After Approved COs	$84,732.83
Net All COs	$157,628.17
Remaining After All COs	$-19,178.17

This Requested Change Order Amount +/-	$112,589.60
Change In A/E Fee This Change Order +/-	$6,192.43
Change In CM Fee This Change Order +/-	$2,251.79
Remaining Construction Contingency Balance	
Contract Change Requested By	Local Board of Education
Contract Change Reason Code	Expansion of Scope

Change Order Description And Justification

PR #6 - New pre-fabricated canopy with linear lighting.

Cost Benefit To Owner

Expansion

Contract unit prices have been utilized to support the cost associated with this change order.	No

Detailed Cost Breakdown

Contract unit prices have not been utilized, provide a detailed cost breakdown which separates labor, material, profit and overhead.

Detail Item	Amount	Percent of Total
Labor	$18,200.00	16.16%
Materials	$79,704.00	70.79%
Profit and Overhead	$14,685.60	13.04%
Bond Insurance		0.00%
Cost Breakdown Total:	$112,589.60	

Cost for this Change Order supported by an alternate bid or competitive price quote: No

Explain Why

Change Order Supplemental Information Form Signature Page (Online Form Ref# 57709)

	3/27/2023
Architect	Date
	3/29/2023
Construction Manager	Date
Finance Officer	Date
Local Board of Education Designee	Date

AIA® Document G701/CMa™ – 1992

Change Order - Construction Manager-Adviser Edition

OWNER ☒
CONSTRUCTION MANAGER ☐
ARCHITECT ☐
CONTRACTOR ☐
FIELD ☐
OTHER ☐

PROJECT *(Name and Address)*
ESTILL SPRINGS ELEMENTARY SCHOOL
314 MAIN STREET
IRVINE, KY 40336

CHANGE ORDER NUMBER: 02-05
INITIATION DATE: 3/24/2023

TO CONTRACTOR *(Name and Address)*
RISING SUN DEVELOPING, INC.
2555 PALUMBO DRIVE
SUITE 110

PROJECT NUMBERS: 000778
CONTRACT DATE: 8/15/2022
CONTRACT FOR: BID PACKAGE #02 GENERAL TRADES

THE CONTRACT IS CHANGED AS FOLLOWS: PR #6 - New Pre-fabricated canopy with linear lighting

The original Contract Sum was	1,449,703.00
Net change by previously authorized Change Orders	53,717.17
The Contract Sum prior to this Change Order was	1,503,420.17
The Contract Sum will be Increased by this Change Order in the amount of	112,589.60
The new Contract Sum including this Change Order will be	1,616,009.77

The Contract Time will be adjusted by 0 days.
The date of Substantial Completion as of the date of this Change Order therefore is 6/2/2023.

NOT VALID UNTIL SIGNED BY THE CONSTRUCTION MANAGER, ARCHITECT, CONTRACTOR AND OWNER.

CODELL CONSTRUCTION COMPANY
CONSTRUCTION MANAGER *(Firm Name)*
4475 ROCKWELL ROAD WINCHESTER, KY 40391

ADDRESS

BY *(Signature)*
Kenny Davis 3/29/2023
(Typed Name) **DATE:**

ROSS-TARRANT ARCHITECTS INC.
ARCHITECT *(Firm Name)*
101 OLD LAFAYETTE AVE LEXINGTON, KY 40502

ADDRESS

BY *(Signature)*
Peter G Fisher
(Typed Name) **DATE:** 3/27/2023

RISING SUN DEVELOPING, INC.
CONTRACTOR *(Firm Name)*
2555 PALUMBO DRIVE*SUITE 110*LEXINGTON, KY 40509

ADDRESS

BY *(Signature)*
Donnie Napier 3.28.23
(Typed Name) **DATE:**

ESTILL COUNTY BOARD OF EDUCATION
OWNER *(Firm Name)*
253 MAIN STREET IRVINE, KY 40336

ADDRESS

BY *(Signature)*

(Typed Name) **DATE:**

User Notes: (1884033357)

CODELL
CONSTRUCTION MANAGEMENT SINCE 1908

Change Order Review Form

PROPOSAL REQUEST

PR #6 (2)

Estill Springs Elementary School (000778)

314 Main Street
Irvine, KY 40336

PR #6 Revision 2 Prefab Canopy

Date: 2/9/2023

To: ROSS-TARRANT ARCHITECTS INC.

From: casey cullen

Attn:

CC: Kenny Davis

I have reviewed and approved the attachment pricing. Your approval and signature is required in order to process this change order. Please review the pricing and sign below it it is acceptable.

Description	BP	Amount
BABCON, INC.	012	15,795.65
BASTIN PAINTING, INC.	006	0.00
BROWN SPRINKLER CORPORATION	010	0.00
CDI FLOORING	007	0.00
CENTRAL KENTUCKY SHEET METAL, INC	011	0.00
EAST KENTUCKY MASONRY	003	0.00
ELLIOTT CONTRACTING, INC.	005	0.00
RISING SUN DEVELOPING, INC.	002	112,589.60
SOUTHEASTERN STAFFING, LLC	004	0.00
STANDAFER BUILDERS, INC.	001	0.00

Summary		Total
Total Days	29.00	128,385.25

ROSS-TARRANT ARCHITECTS INC.

Signature **DATE:**

Codell Construction Company
casey cullen
314 Main Street
Irvine, KY 40336
ccullen@codellconstruction.com

Change Order Proposal Transmittal

RossTarrant Architects | 101 Old Lafayette Ave Lexington KY 40502 United States

PROJECT:	Estill Springs ES Phase 2 Ren-Add 2148	DATE SENT:	3/21/2023
SUBJECT:	COP for PR#6 Revised pricing	CHANGE ORDER PROPOSAL ID:	COP for PR #6 Revised
TYPE:	Change Order Proposal	TRANSMITTAL ID:	00465
PURPOSE:	Reviewed	VIA:	Info Exchange
TOTAL AMOUNT:	$182,535.83		
TOTAL DAYS:	0		

FROM

NAME	COMPANY	EMAIL	PHONE
Jonathan Ruiz	RossTarrant Architects	jruiz@rosstarrant.com	859-254-4018

TO

NAME	COMPANY	EMAIL	PHONE
Casey Cullen		ccullen@codellconstruction.com	

REMARKS: Found the lighting review. Review for pricing revision appears acceptable to KFI and the RTA to recommend to the Owner. Please let me know if you have questions.

DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NUMBER	SCALE	SIZE	NOTES
1	3/13/2023	Potential Change Order 012 - PR #6 Revision 2 Prefab Canopy (1).pdf				

COPIES:

Shauna Wietzki (RossTarrant Architects)
Jacob Johnson (RossTarrant Architects)
Kenny Davis (Codell Construction Company)
Peter Fisher (RossTarrant Architects)

rosstarrant architects

PROPOSAL REQUEST

DATE:	January 03, 2023	PR #:	06
TO:	Codell Construction Company 4475 Rockwell Rd Winchester, KY 40391 859.744.2222 codellconstruction.com	RE:	Estill Springs Elementary School ARP ESSER Phase 2 Renovation and Addition Irvine, Kentucky BG 22-207 RTA 2148

Please submit an itemized quotation for changes in the Contract Sum and/or Time incidental to proposed modifications to the Contract Documents described therein.

THIS IS NOT A CHANGE ORDER NOR A DIRECTION TO PROCEED WITH THE WORK DESCRIBED HEREIN.

DESCRIPTION:

Contractor to provide a detailed pricing breakdown for all labor, material, and equipment costs associated with:

1. A new pre-manufactured canopy with linear lighting.
2. New masonry column wraps itemized separately.

Coordinate intent with bid set site drawings for pavement and storm drainage.

This is not a change order nor a direction to proceed with the work described herein.

ATTACHMENTS:

PR 06 Prefab Canopy Drawings
E7-1 – LIGHTING PLAN
107300 ALUMINUM CANOPY

BY: Jonathan Ruiz AIA, LEED Green Associate, NCARB

c: Peter Fisher – RTA
Shauna Wietzki – RTA
File 2025-
PR-06-2148

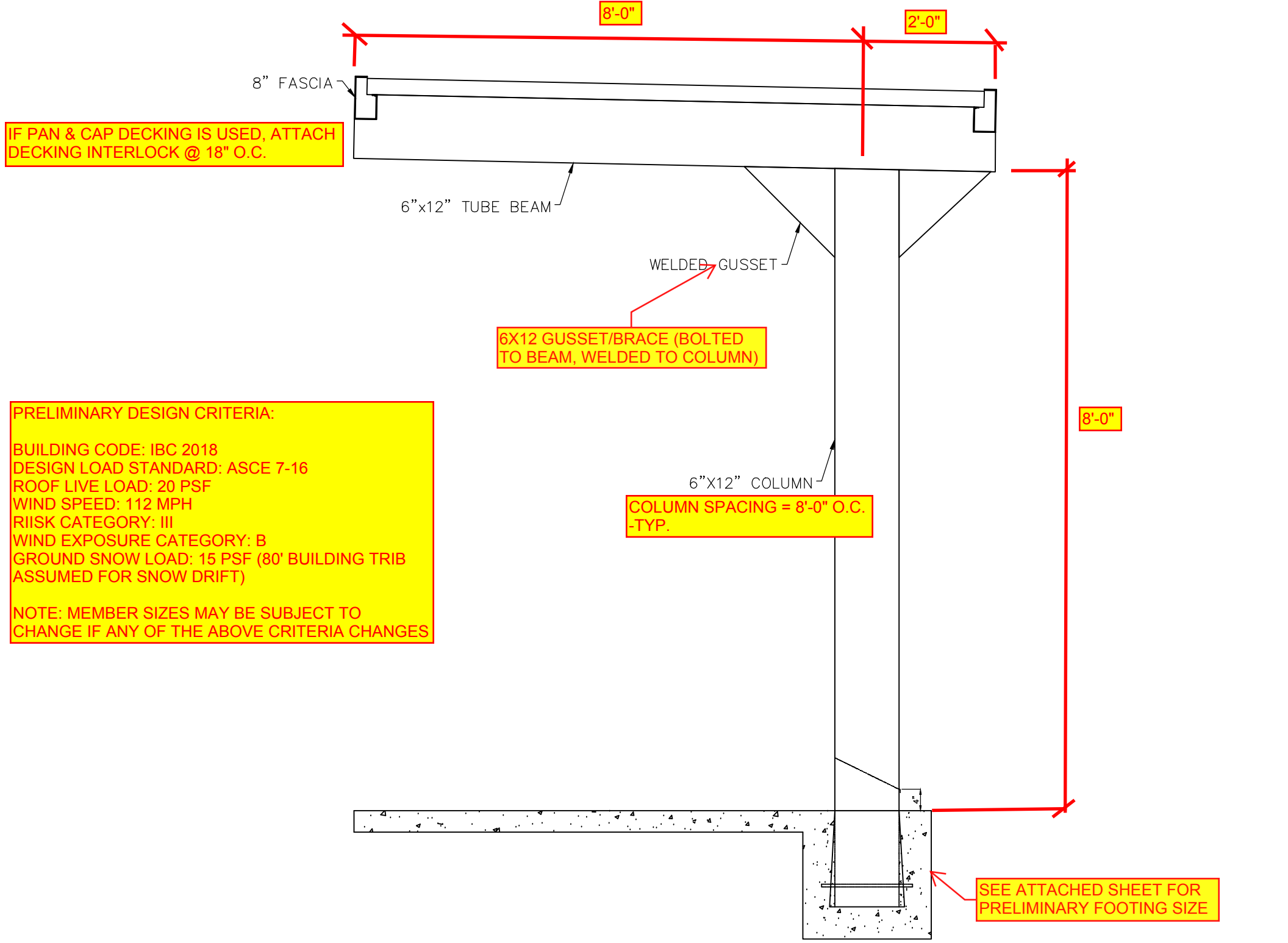
Rising Sun

1/25/23
To: Codell Construction
Attn: Kenny Davis
Pr. 6

Material:		
Concrete 13 yds. @ $150.00 per yd.	$1,950.00	
Rebar	$2,694.00	
Wire mesh	$357.00	
Gravel 10 tons @ $25.00 per ton	$250.00	
Concrete acc.	$687.00	
Labor:		
280 man hrs. @ $65.00 per hr.		$18,200.00
Material and labor:		
Canopy (see attached quote)	$73,766.00	
Overhead and Profit 15%	$14,685.60	
Total:	$112,589.60	

Does not include added storm drainage.

Rising Sun



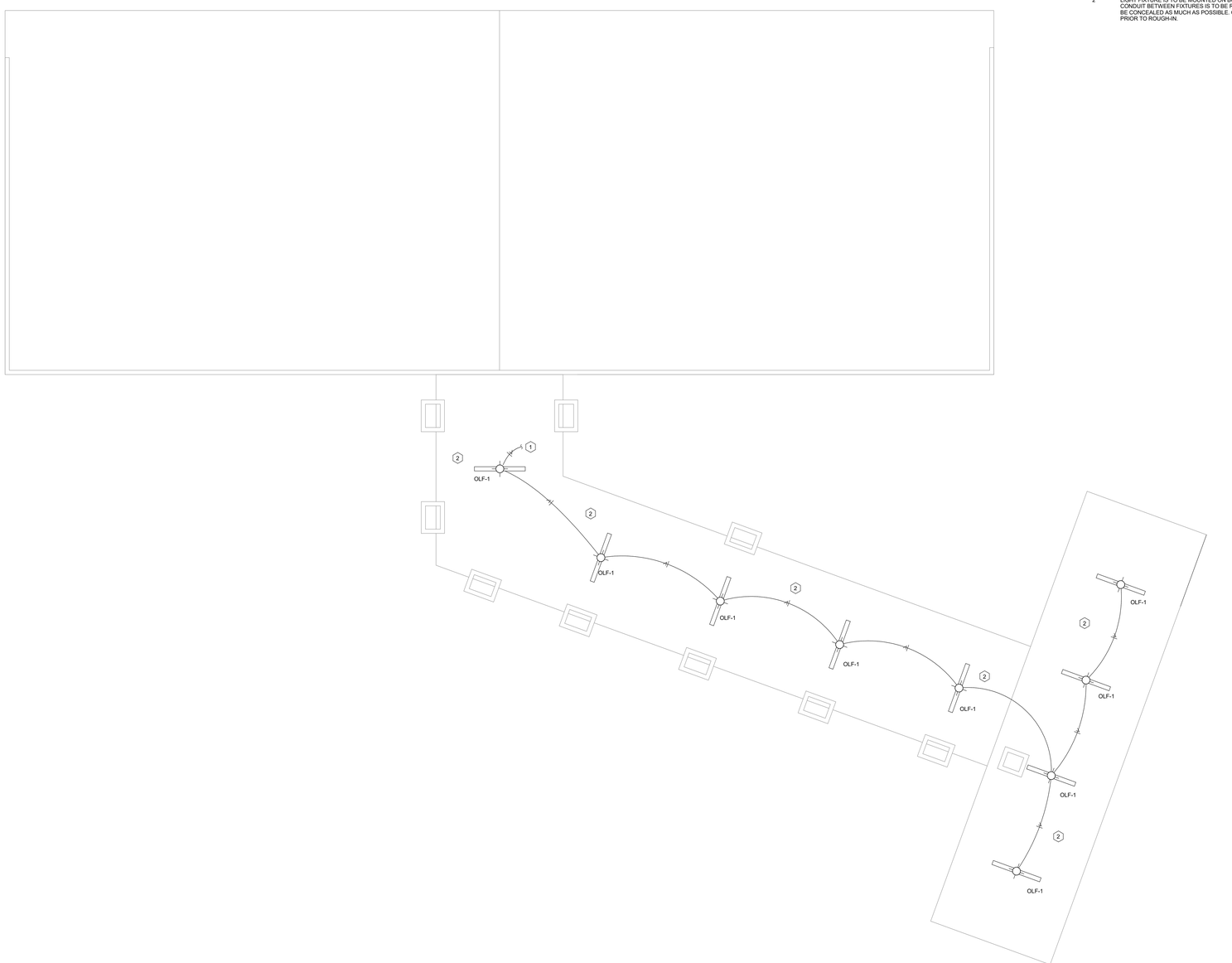
PRELIMINARY DESIGN CRITERIA:

BUILDING CODE: IBC 2018
DESIGN LOAD STANDARD: ASCE 7-16
ROOF LIVE LOAD: 20 PSF
WIND SPEED: 112 MPH
RIISK CATEGORY: III
WIND EXPOSURE CATEGORY: B
GROUND SNOW LOAD: 15 PSF (80' BUILDING TRIB ASSUMED FOR SNOW DRIFT)

NOTE: MEMBER SIZES MAY BE SUBJECT TO CHANGE IF ANY OF THE ABOVE CRITERIA CHANGES

REVISIONS

#	DATE	DESCRIPTION



CANOPY LIGHTING PLAN
SCALE: 1/4" = 1'-0"

CODED NOTES:

1 CONTINUE CIRCUIT TO NEAREST EXTERIOR FIXTURE LF-3E FROM BASE BID DRAWINGS SHEET E1.1.

2 LIGHT FIXTURE IS TO BE MOUNTED ON BOTTOM OF STEEL FRAME. CONDUIT BETWEEN FIXTURES IS TO BE RAN ALONG OUTSIDE BEAM AND BE CONCEALED AS MUCH AS POSSIBLE. COORDINATE WITH ARCHITECT PRIOR TO ROUGH-IN.

LIGHT FIXTURE SCHEDULE

LF-#	FIXTURE DESCRIPTION	VOLTAGE	WATTAGE	LAMP	LUMEN OUTPUT	COLOR TEMPERATURE	COLOR RENDERING INDEX (CRI)	DRIVER	MANUFACTURER	MODEL	EQUIVALENT MANUFACTURERS
OLF-1	RECESSED 4" APERTURE WET LOCATION LED WITH EXTRUDED ALUMINUM HOUSING, SURFACE MOUNTED, FORMED STEEL REFLECTOR, 90% TRANSMISSIVE TEXTURED POLYCARBONATE LENS, 100-1% DIMMABLE DRIVER, 4000K LED LIGHT ENGINE PRODUCING 625 DELIVERED LUMENS PER FOOT, L90 RATED LIFE OF 61,000 HOURS, LIGHTING FACTS LABEL, UL LISTED FOR WET LOCATIONS, AND FIVE YEAR LIMITED WARRANTY. ARCHITECT SHALL SELECT FINISH DURING SHOP DRAWING PHASE.	120 V	22 W	LED	1000 LM	4000 K	> 80	LED DIMMING DRIVER	FOCAL POINT	FSM4L WL FL 625LF 40K 1C UNV LD1 SM EM WH4'	ZUMTOBEL, SELUX

NOTE:

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018

NOT FOR CONSTRUCTION

STAGGS & FISHER CONSULTING ENGINEERS INC.
Lexington, Kentucky

LIGHTING PLAN

ESTILL SPRINGS ES PHASER 2 RENO/ADD

FOR:

ESTILL COUNTY BOARD OF EDUCATION

IRVINE, KENTUCKY

Client #

Project No: 2148
Drawn By: RPG
Rev'd By: WPW

SHEET RELEASE	
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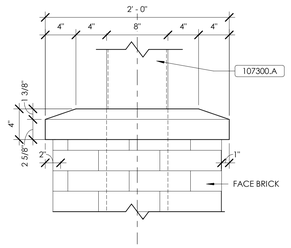
Project Status

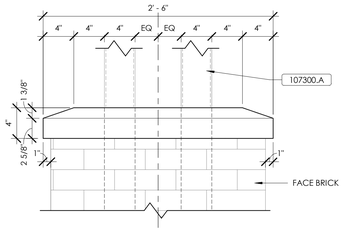
E7.1

LIGHTING PLAN

DATE ISSUED:
Issue Date



CAST STONE SILL ELEVATION
1 1/2" = 1'-0"
R PR.06



CAST STONE SILL ELEVATION
1 1/2" = 1'-0"
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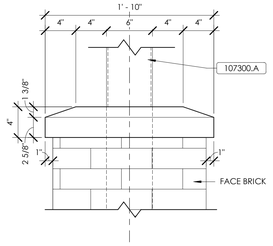
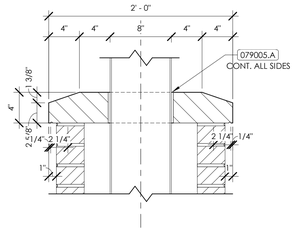


CAST STONE SILL ELEVATION
1 1/2" = 1'-0"
G PR.06



CAST STONE SILL SECTION
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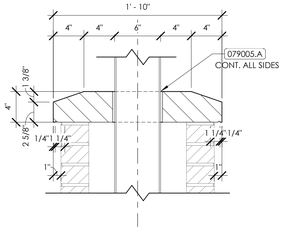
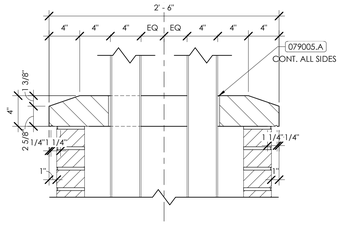
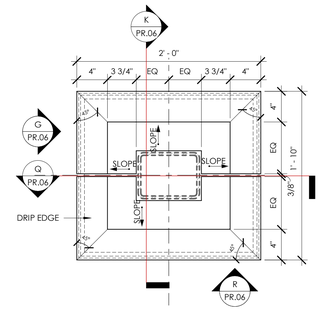
Q PR.06



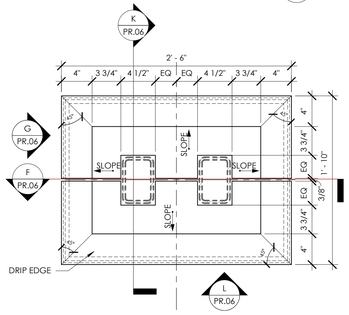
CAST STONE SILL SECTION
1 1/2" = 1'-0"
K PR.06



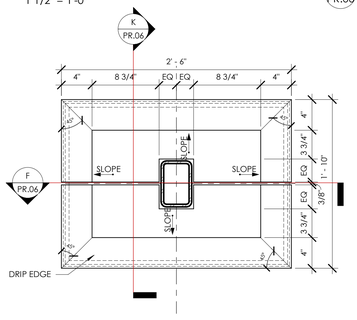
CAST STONE SILL SECTION
1 1/2" = 1'-0"
F PR.06



CAST STONE CAP PLAN DETAIL
1 1/2" = 1'-0"
P PR.06



CAST STONE CAP PLAN DETAIL
1 1/2" = 1'-0"
J.1 PR.06



CAST STONE CAP PLAN DETAIL
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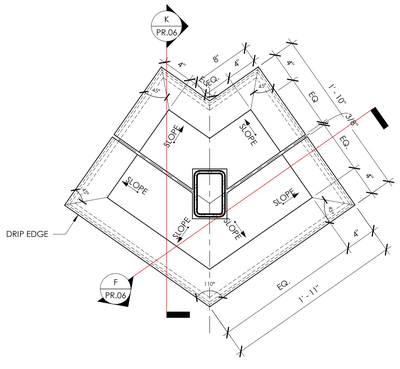
J.2 PR.06



CAST STONE CAP PLAN DETAIL
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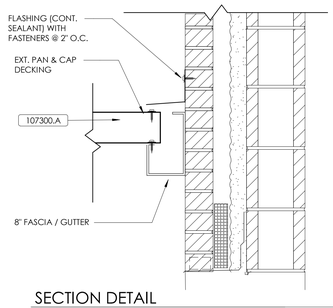
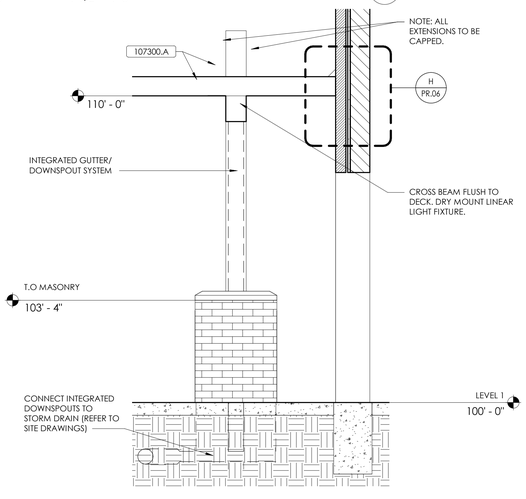
N PR.06



SECTION DETAIL
1 1/2" = 1'-0"
H PR.06



WALL SECTION
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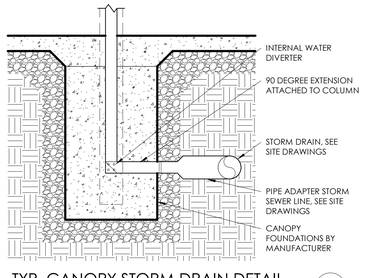
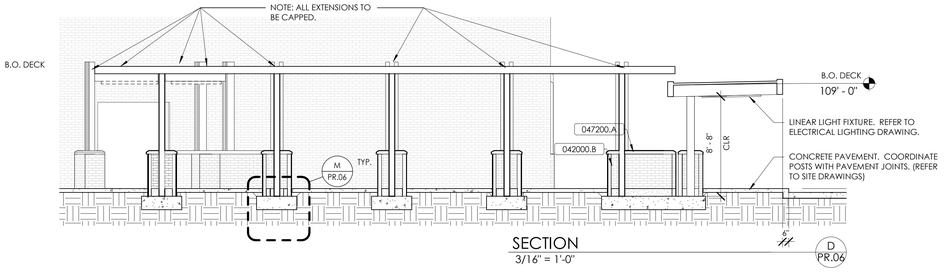
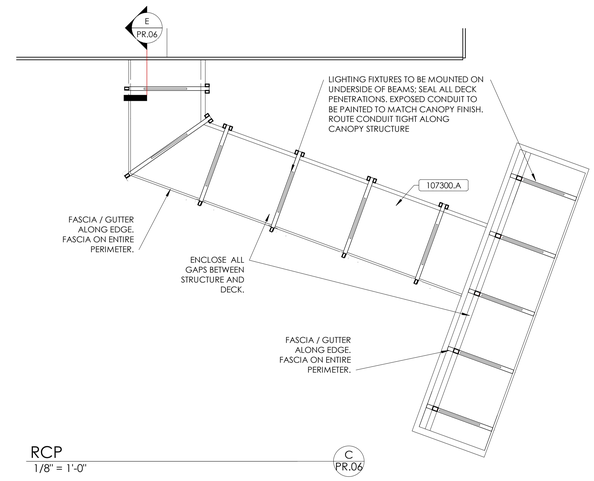


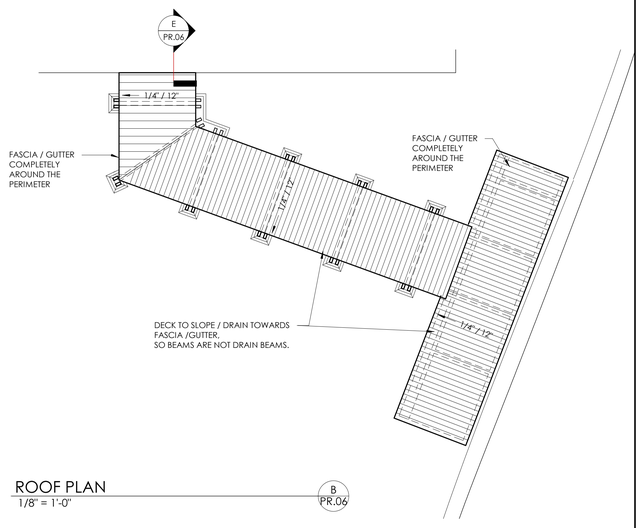
TYP. CANOPY STORM DRAIN DETAIL
3/4" = 1'-0"
M PR.06



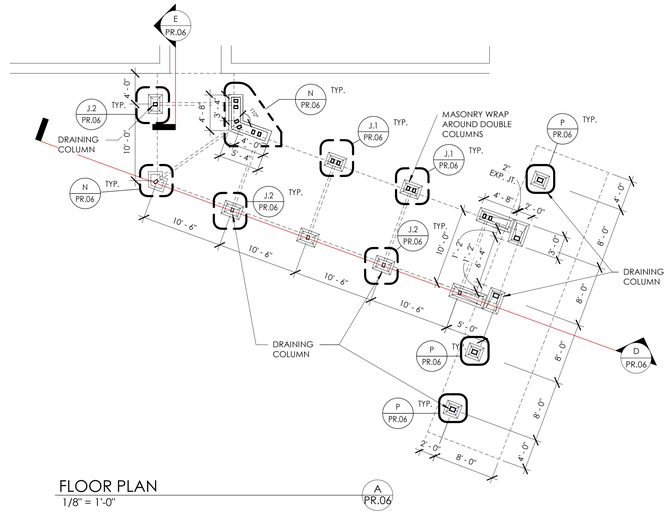
SECTION
3/16" = 1'-0"
D PR.06



RCP
1/8" = 1'-0"
C PR.06



ROOF PLAN
1/8" = 1'-0"
B PR.06



FLOOR PLAN
1/8" = 1'-0"
A PR.06

MATERIAL REFERENCE

042000.B	Face Brick
047200.A	Cast Stone Masonry Units
079005.A	Joint Sealant
107300.A	Column Supported Metal Canopy

MATERIALS LEGEND:

- CONCRETE
- CONCRETE MASONRY UNIT
- CLAY MASONRY UNIT
- SPLIT-FACE CONCRETE MASONRY UNIT
- GROUND-FACE CONCRETE MASONRY UNIT
- CUT STONE
- STEEL
- ALUMINUM
- FINISHED WOOD
- PLYWOOD
- WOOD BLOCKING
- CAVITY WALL INSULATION/PERLITE ROOFING INSULATION
- POLYISO. ROOFING INSULATION
- THERMAL, SOUND, OR FIRE BATT-INSULATION
- GYPSUM BOARD
- SPRAY-IN-PLACE THERMAL INSULATION

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018

PR 06 - PREFAB CANOPIES
ESTILL SPRINGS ES PHASE 2 REN/ADD
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY

BG# 22-207

Project No:	2148
Drawn By:	SW / JR
Rev'd By:	DS

SHEET RELEASE

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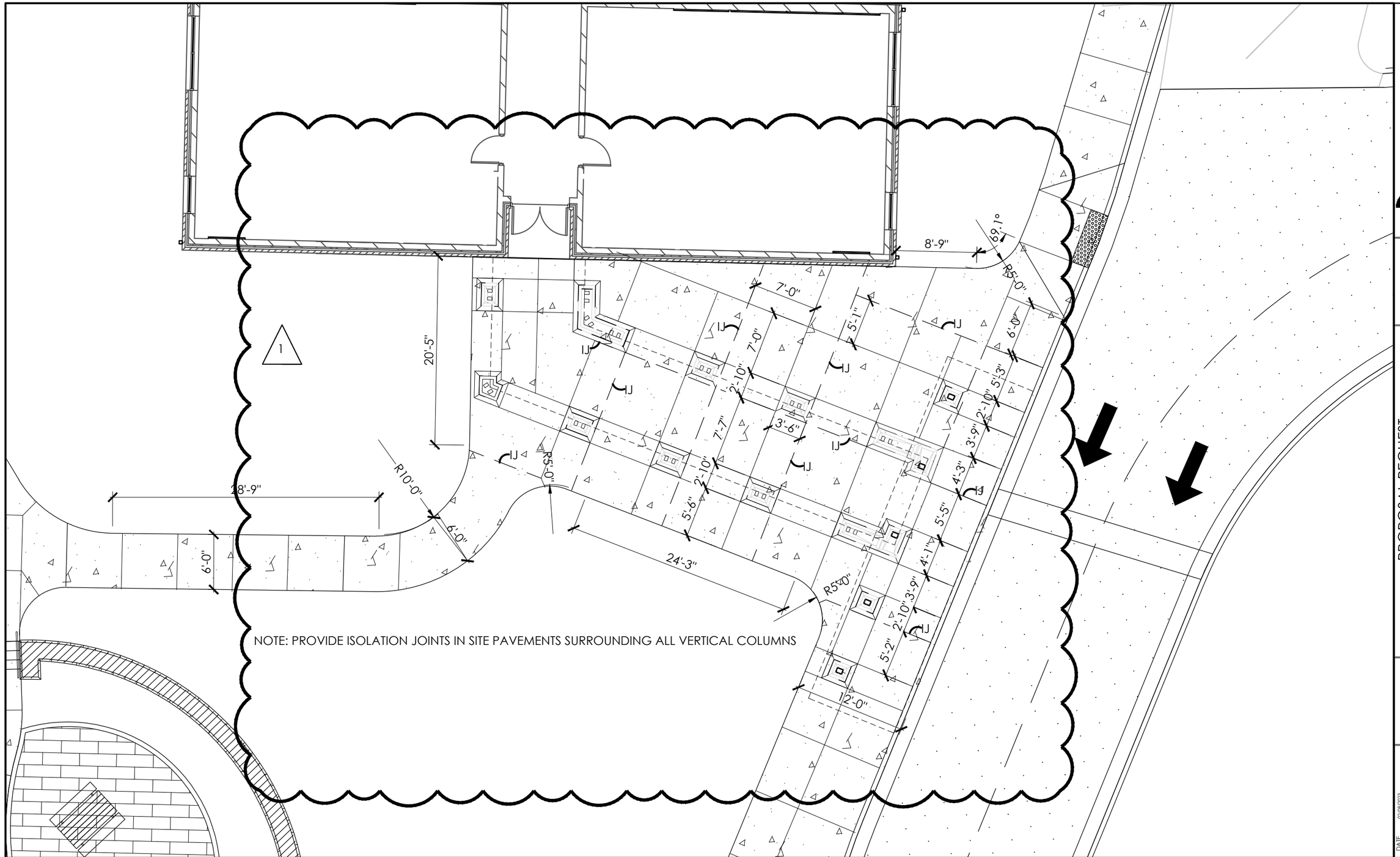
CONSTRUCTION ADMINISTRATION

PR.06

PR 06 - PREFAB CANOPIES

DATE ISSUED:
12/16/2022



1 REVISE PAVEMENTS AS SHOWN.

ENLARGED SITE LAYOUT & DEVELOPME NT PLAN

SCALE : 1"=10'

A PR-06

0 10 20 Feet

PLAN NORTH

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018

PROPOSAL REQUEST

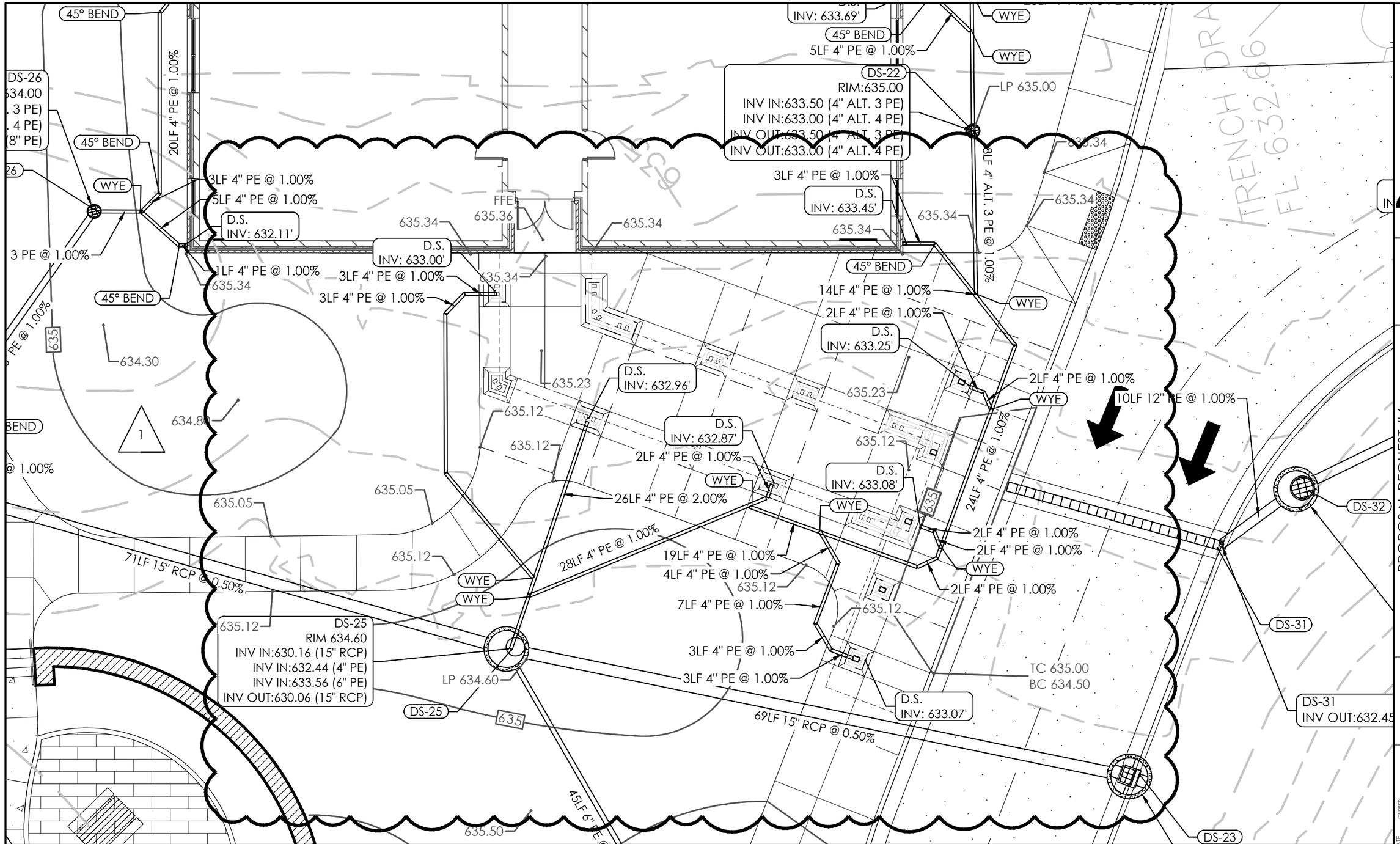
ESTILL SPRINGS ELEMENTARY SCHOOL ARP ESSER PHASE 2 RENO. AND ADD.
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY

DATE 02/08/2023
PROJECT 21-45
DRAWN ELM, MKB
CHECKED MBM
SHEET REF.
REVISIONS

PR-06.1

PROPOSAL REQUEST #6

02/08/2023



1 REVISE GRADING AND DRAINAGE AS SHOWN.

ENLARGED SITE GRADING & DRAINAGE PLAN

SCALE : 1"=10'

A
PR-06

0 10 20 Feet

PLAN NORTH

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018

PROPOSAL REQUEST #6

ESTILL SPRINGS ELEMENTARY SCHOOL ARP ESSER PHASE 2 RENO. AND ADD.
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY

DATE 02/08/23
PROJECT 2142
DRAWN EMJ/KB
CHECKED MBM
SHEET REF.
REVISIONS

PR-06.2

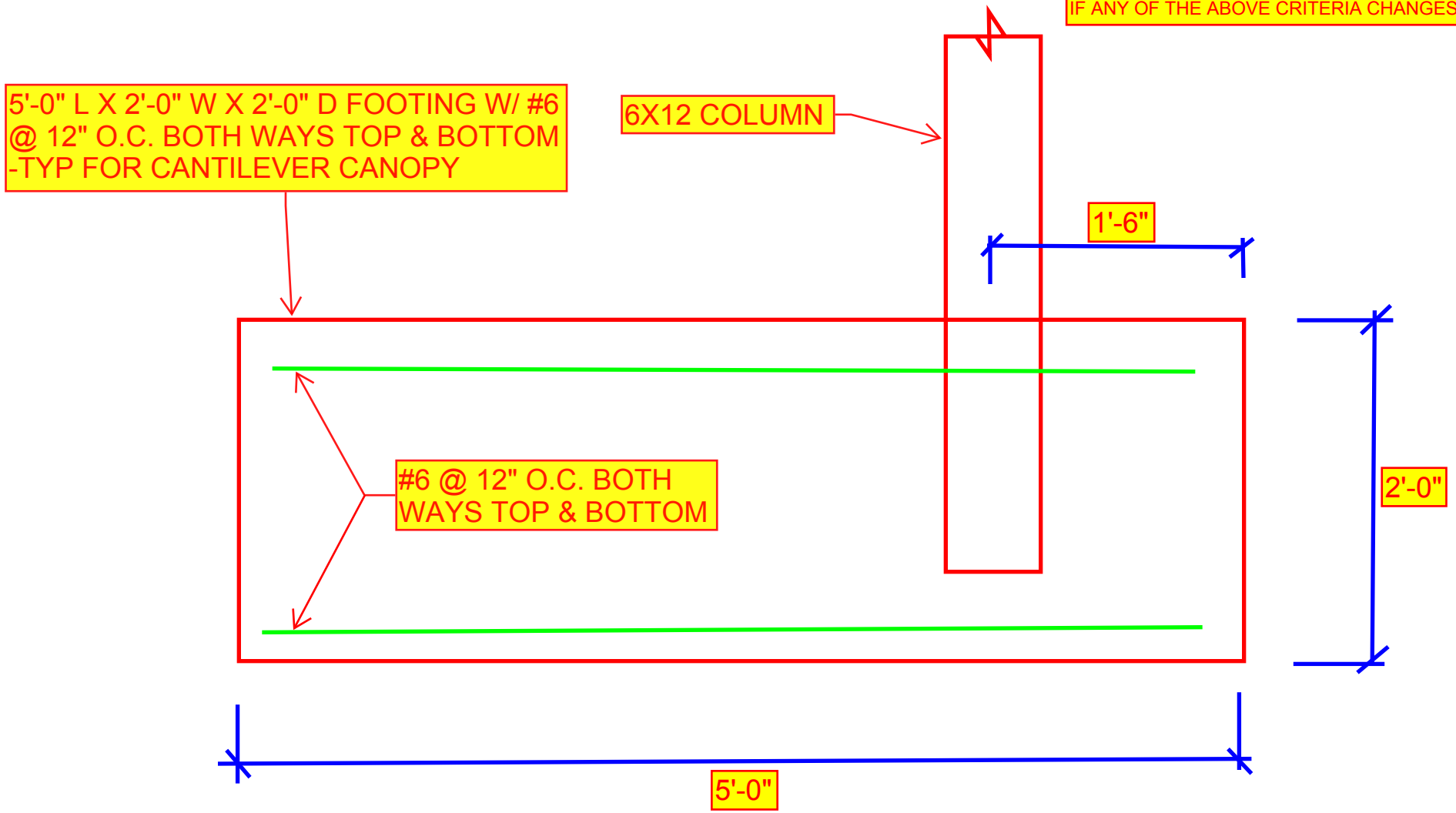
PROPOSAL REQUEST #6

02/08/23

PRELIMINARY DESIGN CRITERIA:

BUILDING CODE: IBC 2018
DESIGN LOAD STANDARD: ASCE 7-16
ROOF LIVE LOAD: 20 PSF
WIND SPEED: 112 MPH
RIISK CATEGORY: III
WIND EXPOSURE CATEGORY: B
GROUND SNOW LOAD: 15 PSF (80' BUILDING TRIB ASSUMED FOR SNOW DRIFT)

NOTE: MEMBER SIZES MAY BE SUBJECT TO CHANGE IF ANY OF THE ABOVE CRITERIA CHANGES



SECTION 107300
ALUMINUM CANOPY

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Column supported manufactured aluminum canopy.
   1. Column/downspouts will be connected to the storm drainage system.

1.02 RELATED REQUIREMENTS

A. Section 033000 - Cast-In-Place Concrete

B. Section 042000 - Unit Masonry

C. Section 079000 - Joint Sealants

1.03 REFERENCE STANDARDS

A. AAMA 611 - Specification for Anodized Architectural Aluminum.

B. AAMA 2604 - Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels.

C. AAMA 2605 - Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.

D. ASTM B 209 - Specification for Aluminum and Aluminum-Alloy Sheet and Plate.

E. ASTM B 221 - Specification for Aluminum and Aluminum Alloy Extruded Bars, Rods, Wire Profiles and Tubes.

1.04 SUBMITTALS

A. Product Data: For the following:
   1. Column supported canopy, columns, column embedment, metal deck, beams and fascia.

B. Shop Drawings: Detail fabrication and installation of all formed metal fabrications. Include dimensioned plans, elevations, sections, and details of components and their connections. Show anchorage and accessory items.
   1. Show column/downspout foundation attachment.
   2. Manufacturer to field verify project conditions for wall bracket attachments to ensure proper attachment is indicated in the shop drawings.

C. Field Measurements: Where formed metal canopies are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

D. Design Data: Submit design calculations bearing the seal of a Registered Professional Engineer, licensed in Kentucky. Design calculations shall state that the canopy system design complies with the wind uplift requirements of ASCE 7, the stability criteria of the 2015 IBC with Kentucky Amendments, and all other governing criteria.

E. Selection Samples: Submit color chips representing manufacturer's full range of available colors and patterns. Submit actual samples not photo reproductions.

1.05 KENTUCKY DEPARTMENT OF HOUSING, BUILDINGS AND CONSTRUCTION (HBC) SUBMITTALS

A. In addition to the shop drawings submitted to the Architect for review the pre-engineered metal canopy manufacturer shall also submit shop drawings to the pre-engineered canopy installer for shop drawings submittal to HBC for approval as a requirement of the building permit.

B. Shop Drawings: Each sheet shall be identified with the project name and bear the seal and signature of a Kentucky licensed design professional. Section 107.1 2015 IBC with KY Amendments, current edition.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in the manufacture of canopy system, as specified, with minimum ten years of documented experience.

B. Installer Qualifications: Canopies to be installed by the manufacturer. Third party installation is not acceptable, unless installer is certified through the manufacturer, or installs manufacturers canopies exclusively.

C. Source Limitations: Obtain canopies through one source from a single manufacturer.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Deliver formed metal canopies wrapped in protective coverings and strapped together in suitable packs or in heavy duty cartons. Remove protective coverings before they stain or bond to finished surfaces.

B. Store products on elevated platforms in a dry location.

1.08 WARRANTY

A. Correct defective Work within a five year period after Date of Substantial Completion.

B. Provide five year manufacturer warranty against excessive degradation of exterior finish. Include provision for replacement of units with excessive fading, gloss reduction, chalking, or flaking.
   1. Provide if manufacturers standard finish is anodized or powder-coated.

C. Provide ten year manufacturer warranty against excessive degradation of exterior finish. Include provision for replacement of units with excessive fading, chalking, or flaking.
   1. Provide if manufacturers standard finish is painted.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include:

B. Basis of Design: design concept and the drawings indicate the size, profiles, dimensional requirements and aesthetics of the following:
   1. Tennessee Valley Metals: www.tvmetals.com

C. Products by other manufacturers may be considered provided deviations in dimensions and profiles are minor and do not change the design concept as judged by the Architect.
   1. Architectural Fabrication, Inc.: www.arch-fab.com
   2. Childers Carports and Structures: www.childersonline.com
   3. Mapes Industries:www.mapes.com
   4. MASA Corporation: www.architecturalcanopies.com
   5. Mitchell Metals, LLC: www.mitchellmetals.net
   6. Peachtree Protective Covers: www.peachtreecovers.com

7. Superior Mason Products, LLC: www.superiormetalproducts.com
8. Tennessee Valley Metals: www.tvmetals.com
9. Rusco Custom Canopies: www.ruscocanopies.com

2.02 MATERIALS

A. General: Provide materials without pitting, seam marks, roller marks, stains, discolorations, or other imperfections where exposed to view on finished units.

B. Aluminum Members: Extruded aluminum, ASTM B 221, 6063 alloy, T6 temper.

C. Deck Panels: Extruded .062 inch aluminum flush deck
1. Panel Profile: Flat
   a. Deck must be continuously flat across the entire canopy. Deck profile or deck attachment to not create any open spaces to allow bird nesting/roosting.

D. Intermediate Gutters/Drain Beam: Extruded .125 inch aluminum with one end closed at the factory and be provided with top cap that is removable for cleaning.
1. Intermediate Gutter Size: Manufacturers standard size or nominal, 0.188 inch thick, 3 inch wide x 6 inch deep.

E. Fascia/Gutter: Full perimeter extruded .094 inch aluminum fascia/gutter.
1. Fascia Size: Manufacturers standard size or nominal, 0.070 inch thick, 3 inch wide x 7 inch deep to interlock with decking and gutters.

F. Fasteners: Use fasteners fabricated from same basic metal and alloy as fastened metal, unless otherwise indicated. Do not use metals that are corrosive or incompatible with materials joined.
1. Provide concealed fasteners for interconnecting formed metal fabrications and for attaching them to other work, unless otherwise indicated.
2. Fasteners to be provided in same finish and color as canopy components.

G. Columns: Extruded aluminum tubing, with radiused corners, to be ASTM A500 Grade B with a minimum yield stress of 46,000 ksi.
1. Column Size: Manufacturer to provide standard size nominal 6 inch x 6 inch at 0.188 inch thick.
2. Provide clear acrylic or bituminous paint protection between the aluminum column and the concrete footer.

H. Column Base Plates: ASTM A 36 - 1 inch structural steel plate with a minimum yield stress of 36,000 ksi. Plate to be minimum 3/4 inch A572 Grade 50 thick with welded gussets. Shop fabricate with pre-punched or pre-drilled bolt holes.

I. Column Anchor Bolts: ASTM A 572 or A 490 Grade 50 threaded round stock with a minimum yield stress of 50,000 psi. Provide double nuts and washers for leveling.

J. Column Top Plates: ASTM A 36 structural steel plate with a minimum yield stress of 36,000 ksi. Plate to be a minimum 3/4 inch thick with welded gussets. Shop fabricate with pre-punched or pre-drilled bolt holes.

K. Flashing: Flashing shall be made of aluminum sheet in same finish and color as the other canopy components. Minimum flashing thickness to be 0.040 inch thick. Coordinate installation of flashing with masonry and/or roofing subcontractor to integrate flashing into throughwall flashing and reglets.

L. Corrosion Control: Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.

2.03 ACCESSORIES

A. Wire Ball Downspout Strainer: Install wire ball downspout strainer at each downspout location.

2.04 FABRICATION, GENERAL

A. Shop Assembly: Preassemble formed metal canopies in shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation.

B. Coordinate dimensions and attachment methods of formed metal canopies with those of adjoining construction to produce integrated assemblies with closely fitting joints and with edges and surfaces aligned, unless otherwise indicated.

C. Welding: In accordance with ANSI/AWS D1.2.

D. Bent Construction: Factory weld beams to columns with neatly mitered corners to form one piece rigid bents. Make welds smooth and uniform using an inert gas shielded arc. perform suitable edge preparation to assure 100% penetration. Grind welds only where interfering with adjacent structure to allow for flush connection. Field welding is not permitted.

E. Deck Construction: Fabricate from extruded modules that interlock in a self-flashing manner. fasten interlocking joints at on center spacing creating a monolithic structural unit capable of developing the full strength of the sections. Fastening to have minimum shear strength of 350 pounds each. Assemble deck with sufficient camber to offset dead load deflection.

F. Form metal to profiles indicated, in maximum lengths to minimize joints. Produce flat, flush surfaces without cracking or grain separation at bends. Fold back exposed edges of unsupported sheet metal to form a 1/2 inch (12 mm) wide hem on the concealed side, or ease edges to a radius of approximately 1/32 inch (1 mm) and support with concealed stiffeners.

G. Build in straps, plates, and brackets as needed to support and anchor fabricated items to adjoining construction. Reinforce formed metal units as needed to attach and support other construction.

H. Provide support framing, mounting and attachment clips, splice sleeves, fasteners, and accessories needed to install formed metal fabrications.

2.05 FINISHES, GENERAL

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Apply organic and anodic finishes to formed metal after fabrication, unless otherwise indicated.

2.06 ALUMINUM FINISHES

A. General: Comply with NAAMM’s “Metal Finishes Manual for Architectural and Metal Products” for recommendations relative to applying and designating finishes.

B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved samples and are assembled or installed to minimize contrast.

C. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.

D. Canopy finishes: Due to differences in canopy manufacturer finishing standards provisions for clear and/or color anodized, painted and powder coated material is included. All finishes are acceptable and manufacturers are to provide their standard of ONE listed below.

1. High-Performance Organic Finish (2-coat Fluoropolymer): AA-C12C40R1X (Chemical Finish): cleaned with inhibited chemicals; Chemical Finish: conversion coating; Organic

Coating: manufacturer's standard 2-coat, thermocured system consisting of specially formulated inhibitive primer and fluoropolymer color topcoat containing not less than 70 percent polyvinylidene fluoride resin by weight). Prepare, pretreat, and apply coating to exposed metal surfaces to comply with AAMA 2605 and with coating and resin manufacturers' written instructions.

a. Color to be selected from manufacturers standard color chart. Minimum twenty colors.
b. All canopy components to be painted; fascia, deck, columns, accessories, and drain beam.
c. Extruded deck to be painted the same color on the topside and underside.

2. Powder Coated Finish: AAMA 2604 thermosetting resin of, 1.20 mils minimum, modified polyesters electrostatically applied to the aluminum profile. Profile to be baked in an oven where the powder particles are melted to a liquid state, fusing together to form a homogenous film.

a. Color to be selected from manufacturers standard color chart. Minimum sixteen colors.
b. All canopy components to be painted; fascia, deck, columns, accessories, and drain beam.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Locate and place formed metal fabrications level, plumb, and in alignment with adjacent construction.

B. Use concealed anchorages where possible. Provide brass or lead washers fitted to screws where needed to protect metal surfaces and to make a weathertight connection.

C. Form tight joints with exposed connections accurately fitted together. Provide reveals and openings for sealants and joint fillers as indicated.

D. Corrosion Protection: Coat concealed surfaces of aluminum, zinc coated, and nonferrous metals that will come into contact with grout, concrete, masonry, wood, or dissimilar metals with a heavy coat of bituminous paint.

E. Entire unit shall be erected straight and true.

3.02 ADJUSTING

A. Restore finishes damaged during installation and construction period so no evidence remains of correction work. Return items that cannot be refinished in the field to the shop; make required alterations and refinish entire unit or provide new units.

3.03 PROTECTION

A. Protect finishes of formed metal canopies from damage during construction period. Remove temporary protective coverings at time of Substantial Completion.

END OF SECTION