

ONAddendum #002OUNTYInvitation to Bid (ITB) 2443-2025CHOOLSAthletics Maintenance Building No. 3 Re-Roof Project

Date: February 20, 2025

Solicitation: ITB 2443-2025 Athletics Maintenance Building No. 3 Re-Roof Project

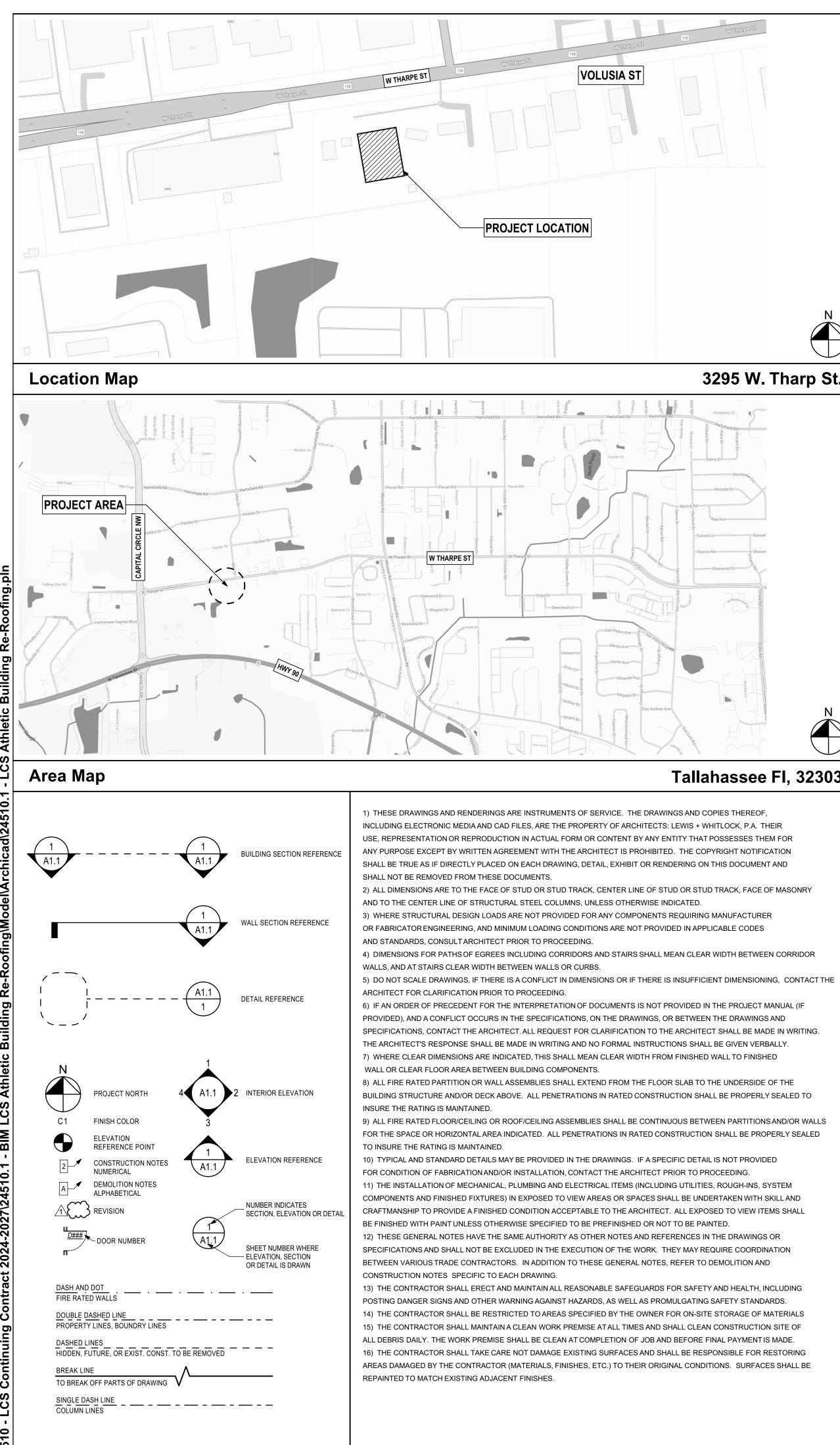
Proposals Due: February 27, 2025, at 2:00 P.M. EST

Failure to file a protest within the time prescribed in Section 120.57(3), Florida Statutes, or failure to post the bond or other security required by law within the time allowed for filing a bond shall constitute a waiver of proceedings under Chapter 120, Florida Statutes.

Please be advised that the changes below are applicable to the original specifications of the abovereferenced solicitation.

Change No. 1:

Replaces Exhibit B, Architectural Construction Documents and Specifications (See Attached)



Legend of Architectural Symbols:

Architectural General Notes:

LCS Athletics Maintenance Building No. 3 Re-Roofing Exhibit B

LCS Athletics Maintenance Building No. 3 Re-Roofing

Tallahassee. FL for Leon County Schools

100% Construction Documents

October 25, 2024

ALW Project #24510.1

PIES INEREOF,	A/C	-AIR CONDITIONING						
IITLOCK, P.A. THEIR		-AMERICAN CONCRETE INSTITUTE		-FLOOR DRAIN		-METER	SAN	-SAN
,	ACT	-ACOUSTICAL CEILING TILE	FEB	-FIRE EXTINGUISHER W/ BRACKET	MATL	-MATERIAL	SC	-SOL
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TRACK, FACE OF MASONRY				-FLASHING		-MANUFACTURER	SJ	-SAW
	BD	-BOARD		-FOOT OR FEET		-MINIMUM		-SPR
		-BUILDING		-FOOTING		-MISCELLANEOUS	SQ	-SQU
MANUFACTURER	BLT	-BOLT	110	-10011110	MK	-MARK	SST	-SQU
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	CJ	-CONTROL JOINT	HORZ	-HORIZONTAL	OA	-OVERALL	ТОВ	-TOP
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	DBL	-DOUBLE	κD					-VAP
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, ROUGH-INS, SYSTEM			L	-STEEL ANGLE, LENGTH		-PREPARATION	VEST	-VES
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		-DIMENSION		-LIVE LOAD	PVMT	-PAVEMENT	W/	-WITI
THE DRAWINGS OR	DN	-DOWN		-LONG LEG HORIZONTAL			W/C	-WAT
QUIRE COORDINATION		-DOWNSPOUT		-LONG LEG VERTICAL	QC	-QUALITY CONTROL	WD	-WOO
EMOLITION AND	DTL	-DETAIL	LTL	-LINTEL	QT	-QUARRY TILE	W/O	-WITI
	DWG	-DRAWING	LTWT	-LIGHTWEIGHT			WP	-WAT
			LVR	-LOUVER	REF	-REFERENCE	WWF	-WEL
AND HEALTH. INCLUDING	EA	-EACH			REINF	-REINFORCED, REINFORCEMENT		
,	EJ	-EXPANSION JOINT			REQD	-REQUIRED		
SAFETY STANDARDS.		-ELECTRICAL				-REVISION		
STORAGE OF MATERIALS		-ELEVATOR, ELEVATION				-RIGHT HAND		
CONSTRUCTION SITE OF		-ENCLOSURE			RM	-ROOM		
CONSTRUCTION SITE OF		-EQUAL			RO	-ROUGH OPENING		
NAL PAYMENT IS MADE.		-EQUIPMENT						
ONSIBLE FOR RESTORING		-ELECTRICAL WATERCOOLER						
		-EXHAUST						
IONS. SURFACES SHALL BE		-EXISTING						
	EXT	-EXTERIOR						

A/C -AIR CONDITIONING

Le(342 S C Applicable Codes: -SANITARY OLID CORE Florida Building Code, Building (FBC-B) 8th Edition Florida Building Code, Accessibility (FBC-A) ECTION 8th Edition EWER Florida Building Code, Existing Building (FBC-EB) 8th Edition QUARE FEET Florida Building Code, Mechanical 8th Edition NGLE Florida Building Code, Fuel Gas 8th Edition IMILAR Florida Building Code, Plumbing 8th Edition AWED JOINT Florida Building Code, Energy Conservation 8th Edition PRINKLER QUARE Florida Fire Prevention Code (FFPC) 8th Edition FAINLESS STEEL National Electrical Code (NEC) 2020 Edition TANDARD TEEL **NOTE:** CONTRACTOR SHAL MAKE AVALIABLE TO THE BUILDING INSPECTOR, DOCUMENTATION TORAGE TRUCTURAL NECESSARY TO VERIFY THAT ALL EXTERIOR ENVELOPE COMPONENTS REQUIRING PRODUCT USPENDED APPROVAL PER FS 533.842 ARE IN COMPLIANCE WITH PRODUCT APPROVAL INSTALLATION REQUIREMENTS. O BE DETERMINED ELEPHONE EMPORARY, TEMPERATURE Name Current Issue ONGUE & GROOVE ID HICK OP OF BEAM Index of Drawings, Standard Addendum No. 2 G1.0 OP OF CONCRETE Abbreviations and General Notes OP OF FOOTING Architecture 24510. % OP OF STEEL SP1.1 Specifications 100% Construction Documents 100 **TRUCTURAL TUBE STEEL** ELEVISION SP1.2 Specifications 100% Construction Documents PICAL SP1.3 Specifications Addendum No. 3 Addendum No. 3 INFINISHED NLESS OTHERWISE NOTED Demolition Roof Plan Addendum No. 2 D1.1 RINAL A1.1 Roof Plan & Details Addendum No. 3 NYL COMPOSITION TILE A2.1 Addendum No. 2 Exterior Elevations APOR BARRIER ERTICAL Structural ESTIBULE S0.1 Structural Notes and Details Addendum No. 3 ERIFY OLUME INYL TILE ITH ATER CLOSET OOD ITHOUT ATERPROOF, WORKING POINT Architects Lewis + Whitlock ELDED WIRE FABRIC 206 West Virginia St. Tallahassee, Florida 32301 850,942.1718 www.think3d.net Description: Index of Drawings, Standard Abbreviations and **General Notes** Sheet No .: G1.0 Index of Drawings:

DIVISION 11 - EQUIPMENT

SECTION 116713 BOWLING ALLEY EQUIPMENT

PART 1 GENERAL

- 1.01 SECTION INCLUDES
- A. Bowling Alley Equipment.
- 1.02 RELATED REQUIREMENTS A. Section 012300 - Alternates: Descriptions of items, administrative requirements.
- B. Section 013000 Administrative Requirements: Submittal procedures, project meetings, progress schedules and documentation, reports, coordination.
- C. Section 014000 Quality Requirements: Procedures for testing, inspection, mock-ups, reports, certificates; use of reference standards. D. Section 017800 - Closeout Submittals: Project record documents, operation and maintenance (O&M) data, warranties and bonds.
- 1.03 ADMINISTRATIVE REQUIREMENTS
- A. Preinstallation Meeting: Conduct a preinstallation meeting one week prior to the start of the work of this section; require attendance by all affected installers
- B. Sequencing: Ensure that utility connections are achieved in an orderly and expeditious manner.
- 1.04 SUBMITTALS
- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's technical information for all equipment to be provided, including details about materials, components, finishes
- and required utility connections. C. Shop Drawings: Indicate required opening dimensions and tolerances, placement dimensions of equipment, and perimeter conditions of construction.
- D. Samples: submit samples of all finish options for initial selection.
- E. Manufacturer's Qualification Statement.
- F. Installer's Qualification Statement.
- G. Maintenance Data: Provide maintenance data for all equipment.
- H. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
- 1.05 QUALITY ASSURANCE
- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with at least five years of documented experience
- B. Installer Qualifications: Company specializing in performing work of the type specified and with at least five years of documented experience. 1.06 WARRANTY
- A. See Section 017800 Closeout Submittals, for additional warranty requirements.
- B. Warranty period for equipment specified under Products section.
- PART 2 PRODUCTS
- 2.01 MANUFACTURERS
- A. Basis of Design: Brunswick Bowling Equipment.
- 1. Lanes (Brunswick Pro Lane Bowling Lane) Preferred lane surface.
- 2. A synthetic bowling lane which is 7/16" thick and is made from 100% solid phenolic laminate. The lane will feature a maple image and will include board lines, USBC Certified down-lane markings that provide additional targets serves as an instructional aid for bowlers. Lanes will have a complete edge-to-edge glow effect on lane and approach for use during "glow bowling" events under black light.
- a. Alternating light/dark board design, with every fifth board being highlighted to provide target zones to aid bowlers.
- b. Down-lane markings to help bowlers develop precise break points and improve scores.
- c. Integrated foul line with no seam for better stability and durability.
- d. Anti-skid pin deck to reduce sliding pins and out-of-range trouble calls, and will have "scribed" pin spots.
- e. 60"-wide, textured approach panels for improved, more consistent sliding conditions
- f. The bowling lane will have a written lifetime warranty against delamination backed up by the manufacturer. g. The bowling lane will have the ability to have custom glow ink images, logos, or printed images installed to match center brand purposes. The bowling lane will have the ability to select from more than 100 custom colored lane option.
- The lane will have a written 5-year warranty against defects.
- The lane will have a written one-year warranty on labor backed up by the manufacturer when installed by the manufacturer.
- B. Bowling Lane Foundation
- Bowling lane underlayment will be made from "laminated strand lumber". LSL is a structural grade composite lumber manufactured from strands of wood whose grain has been glued and pressed in parallel orientation. LSL is most often used in structural applications such as building truss systems, load bearing supports and framing. LSL provides a much more robust base for bowling lanes.
- 2. I-joist-supported foundation to provide outstanding dimensional stability and minimize floor movement.
- C. Ball Return System
- Fiberglass hood to maximize durability and resistance to bowler/ball damage.
- Safety system shall use 8 infrared light beams across the exit/opening of the ball lift and shut down the ball lift if a foreign object enters the ning or the ball rack is full. The ball lift should restart automatically when the foreign object is removed with no staff intervention necessary 3. Compatible with the Frameworx ball lift system.
- 4. Holds up to 12 balls each on the main rack. Optional racks are available to further expand capacity. Eight additional balls can be stored on a separate lower rack that is 1-1/2" off the lane surface for easy cleaning.
 - The control box must be above the lane surface for access.
- The motor shall be located under the lane surface and out of the reach of bowlers and accessible through a trap door in the approach. Ball rack shall be ergonomically placed at 15-1/2" to accommodate all ages of bowlers.
- D. Automatic Bumper Rails
- Curved front rails to improve durability by reducing the force of ball impact.
- 2. 30 uprights per side (60 per lane) to reduce impact forces and improve durability.
- Heavy-duty construction, including metal gears within the motor assembly, metal uprights, actuator arm, and rail.
- 4. Motorized rails automatically raise or lower for each bowler.
- Integrated safety system provides continuous bowler protection in automatic mode.
- Automatically detects foreign objects and raises itself in case a person crosses the foul line and gets their foot caught under the rail.
- System should not be lowered via gravity to prevent a user from getting their foot stuck under the rail.
- E. Lightwork Pindeck Lighting
- 1. A Pindeck Lighting solution which can change the look and feel of your center at any time, creating a new, exciting experience for bowlers and observers alike; including the following:
- a. System with dozens of preset, multi-color patterns and sequences.
- b. One fixture per lane including over 250 LED's in nine programmable clusters that can display every color of the spectrum.
- c. Integrated microphones within each fixture which can sync lights to music. d. Only one independent power source required for every 12-14 lanes.
- e. DMX controller provides easy operation and customization of patterns and sequences.
- F. Scoring and Management System (Sync) 1. Management System:
- a. Hardware:
- 1) Back office server must be a commercial-grade server with dual Raid1 SSD hard drives and dual power supply for increased system reliability
- 2) Back office server must be Windows Server 2016 or later
- 3) Client computer with Windows 10
- 4) All Clients and Servers should have 3-year warranties provided by Dell®
- 5) System must have optional 7" or 10" mobile tablet POS workstation with 16-hour battery life, shoulder sling, Windows 10 IoT, integrated point of sale functionality, and optional credit card reader.
- 6) System must have optional All-in-One Clients with integrated receipt printers, swipe cards, and pole displays.
- b. Bowling Lane Control
- 1) Scoresheet selection
- 2) Theme selection
- 3) Video control
- 4) Advertising and Messages 5) Lane transfers
- 6) Bowler name entry, email entry, and score corrections
- 7) Graphics controls
- 8) Integrated Intercom
- c. Bumper Control by bowler
- 1) Bowling by Game
- 2) Bowling by Time
- 3) GS-X Pinsetter control including pin(s) selection d. Guest Management
- Guest Management view panel to easily track and move parties throughout the center.
- Ability to assign to bowling and non-bowling resources.
- Mobile waitlist texting management service with ability to text guests, estimate wait times, and receive guest confirmations. 4) Ability for guests to enter their bowling names, email address, and other information on their online reservation or waitlist text and have this information automatically sent to the management, scoring system, and CRM system.
- Advanced Reservations.
- 6) Ability to reserve multiple resources, including lanes, party rooms, tables, etc. on a single reservation.
- 7) Ability to email invoices and reservation confirmations 8) Ability to attach products to reservations to save time when the reservation is activated.
- 9) Ability to accept individual bowler names and email addresses and assign this information to the lane when the reservation is activated. e. Restaurant-Grade Point of Sale
 - 1) User Security with employee roles and multiple access/manager override options.

2) Flexible tabbed transactions, including split/merge/move tabs, items, and transactions.

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- 3) Food/Beverage functionality including food & beverage modifiers, remote order printing capability, and hold/fire functionality. e. Will be Unlimited products and product "packages", including ability customize logos, view panels, button size, and color. f. Will be g. Will pro Ability to interface products and product "packages" with web-based coupons. h. Will hav 6) Integrated 2D QR reader for coupon scanning and redemption. 7) Sales related to coupons redeemed should be tracked and reported on Pre-paid and Post-Paid transaction. 3. The mechar 8) Restaurant/Table functionality, including ability to associate tabs with tables. a. Dimens b. Will be 9) Quick-access buttons to assist wait staff, including ingredient list, price preview, and help text. 10) Table management and rental controls. 1) Dis 11) Account Tracking. 2) Se 12) Ingredient tracking for export to common inventory management programs, including Yellow Dog software. 3) Sı 13) Interface to Chef-Tab Kitchen Display Systems. 4) Ba 14) Use payment card solution that keeps the scoring and management system out of scope for PA-DSS to support cost effective PCI Motors d. The ba compliance. 15) Journal Log feature to allow for historical reporting. e. After fir f. Back Office f. The wr 1) Customize POS and lane status view panels by role. 1) T 2) Employee memo features with manager tracking. 2) O 3) Multi-zone capabilities, along with custom resource control (billiards, restaurant tables, darts, party room, etc.). 3) O 4) System audit to identify potential theft issues. 4) N Automated System Health to identify the status of scoring, management, and POS software and hardware. 5) Al 6) Advanced reporting with XML- and CSV-based exports and ability import/export/merge reports. g. Machin 7) Interface to MICROS POS system. H. Lane Machine 8) Interface to Azbar, and Berg beverage control systems. Direct-to-lar 9) Real-time sales reporting interface for YellowDog Inventory Management System and other 3rd parties. Six-button 10) Interfaces with Embed®, Intercard®, and Sacoa® amusement game card systems. V-shaped s 11) Automatically download marketing content from cloud-based marketing systems. 4. Option of r 12) Automatically download software updates, and give administrators the ability to push software updates to the entire system from the 5. Two (2) ye Management software. I. Substitutions: Se 13) Complete labor management system with HotSchedules integration, labor forecasting, and virtual and physical timeclock solutions. PART 3 EXECUTION 2. Scoring a. Exclusive scoring system used by the USBC to run Open and Women's Championships through 2024. 3.01 EXAMINATION b. Hardware A. Verification of Co 1) Scoring resolution should be true 1920x1080p HD. 3.02 INSTALLATION Overhead electronics should be Windows operating system. Bowler consoles available in stand-alone mounting format or mountable on Center Stage, Frameworx, and Striking Line furniture. A. Install in accorda Bowler consoles to be no greater than 10.1" diagonal to minimize total footprint in the bowler's area. 3.03 FIELD QUALITY CO 5) Tablet bowler consoles use commercial-grade LED 50,000-hour backlight, capacitive touch technology, and offers standby capabilities A. See Section 014 to extend the life of the tablet. 6) Overhead monitors must have 32", 43", 49", and 55" LED widescreen monitors with 3-year warranties. B. Provide manufac c. Technology 3.04 SYSTEM STARTUP 1) Product utilizes distributed scoring architecture which provides: A. Provide manufac 2) The ability for each bowler and each team to automatically track up to two other unique bowlers and teams. B. Prepare and star 3) The ability to automatically broadcast player events across a range of lanes when issued for groups. 4) The ability to continue bowling on lanes even if the scoring computer or tablet for the lanes fails. 3.05 ADJUSTING 5) The ability to schedule and display unique advertising simultaneously on individual lane or groups of lanes scoring monitors, both in-A. Adjust equipmen game and when the lane is off. 3.06 CLOSEOUT ACTIVI 6) Scoring software cannot be designed using discontinued software programming languages such as Visual Basic. 7) Scoring computers will automatically "back-up" data every ball to the center management computer system. Center management A. Demonstration: computer will provide recovery capability of this data to the scoring computers. Use operation 8) Scoring system will provide the ability to set any pin combination on-demand from both the scoring console and the front desk computer Conduct wa when installed with Brunswick GS-X® pinsetters, providing bowlers with the easy capability to play games, practice spares and Briefly desc providing center personnel the ability to set spares or re-spot pins. B. Training: Train C 9) Scoring system will not have the need for a scoring camera and/or associated parts when being used with Brunswick GS-X® pinsetters. 1. Use operati Automatic scoring will be done via a direct interface between the new scoring system and the GS-X pinsetters. The scoring computer 2. Provide min software, bowler consoles, and other peripherals software and firmware can be updated automatically from a single location using the 3. Instructor: management system. 4. Location: A 10) Interface to 3rd parties such as Magix Lanes so that those products may integrate bowling events (strikes, spares, etc.) into their guest experiences. 3.07 PROTECTION d. Bowling Games A. Protect installed 1) Games for open and group event bowling, including pinpix, Rival Rumble, Kapow, The Buzz, Stat King, and numerous other 10-pin B. Do not permit tra themes, including the ability to automatically broadcast player events across a range of lanes when issued for groups. 2) Games for birthdays, including Angry Birds Bowling, EZ Bowling, and Creature Feature that are simple, easy to understand, and fun to 3) Games that allow bowlers to submit and use their own photo from a mobile device. 4) Games for competitive bowlers, including The League, HORSE, myShot, and Best Frame. Game that allows each bowler and each team to automatically track up to two other unique bowlers and teams. 6) Games that allow bowlers to select pin combinations that the group of bowlers competes against. This includes HORSE, which is to the PART 1 GENERAL street basketball game, and myShot, which allows bowlers to select a pin shot pattern and track their performance statistics. 1.01 PROJECT Must offer a selection of games that utilize the on-demand pinsetting capabilities of the GS- and StringPin pinsetters. A. Project Name: L 8) Automatically send scoresheets to bowlers via email, with ability for bowlers to share to Facebook and Twitter from their mobile device. 9) Web site for bowlers to track their stats, scores, and receive special offers. B. Owner's Name: e. Customer Service C. Architect's Name 1) Ability to upload menus and/or create custom images that promote center specials and menu items. The custom image should include a D. The project scope Staff Call To Action function. The Staff Call To Action is a customizable specials button on the bowler console that notifies staff when a above existing m guest selects a given button. 1.02 CONTRACT DESCR 2) VoIP intercom for tablet bowler console, with the ability to customize specific text based service messages. 3) 7" or 10" mobile POS tablet with tab management and remote order printer integration, with hardware having a 16-hour battery life. A. Contract Type: Marketing and Loyalty/Rewards Integration Supplements. 1) Must display advertisements in-game on the overhead monitor, bowler console, and digital signage platforms, with content generated 1.03 OWNER OCCUPAN using the cloud-based marketing and media management system A. Owner intends to Allow the bowler to sign in at the lane to track scores, stats, and get their scoresheet emailed to them at the end of the game. 3) Allow the bowler to provide email at the tablet console that will result in an email containing their scoresheet, offers, and ability to share B. Owner intends to to personal Facebook or Twitter accounts. C. Cooperate with C 4) System must have a mobile-friendly web site that allows bowlers to track their stats, scores, and offers earned by visiting the center. D. Schedule the Wo 5) System must be able to track spending associated by bowler when redeeming unique offers/coupons. g. Marketing **1.04 CONTRACTOR USE** 1) Scoring and Management system should include a fully integrated cloud-based Customer Relationship Management (CRM) system with A. Construction Ope the ability to create, schedule, and distribute marketing campaigns over multiple channels, including in-center scoring and POS 1. Locate and systems, digital signage, Facebook, Twitter, email, and the center's web site from a single web-based interface. B. Provide access t Ability to schedule campaigns and marketing channels by day, time, location, and lane. 1. Emergency More than 45 pre-built marketing campaigns. exit routes a Campaign Builder – design marketing campaigns in as few as five clicks. Do not obstr Media Manager – more than 200 marketing images. Automatically send league recaps to bowlers. C. Utility Outages a 7) Automatically collect and send scoresheet, reservation invoice, and receipts via email provided at the tablet bowler console, front desk, 1. Do not disru or through online reservation. and authorit 8) Ability to manage marketing content (images, videos, ads) through a web-based application. Application should provide the ability to tag, Prevent acc edit, and import/export media. 1.05 WORK SEQUENCE 9) Ability to manage marketing for multiple centers from a single account. A. Coordinate const 10) Ability to create and send personalized offers to bowlers. Offers shall be scanned via QR code scanner at the POS system and all revenue from offer tracked in the CRM system along with redemption statistics. PART 2 PRODUCTS - NC 11) Membership program that gives bowlers the ability to track their scores, stats, and personalized offers through a mobile-friendly web PART 3 EXECUTION - NO 12) Bowlers should be able to share emailed scoresheets to bowler's Facebook and Twitter accounts. 13) System should send users monthly summaries of Sync marketing activities, including a marketing score, metrics, and system 14) Digital Signage system should be controlled by centralized CRM system, including the ability to create and schedule content to be PART 1 GENERAL displayed. This can include the automatic display of scoring lane assignments, waitlists, and marketing content using predefined 1.01 SECTION INCLUDE templates that accept videos and imagery. 15) All intellectual property for the new scoring system will be owned by the seller and licensed directly by seller to purchaser. A. Procedural requi 1.02 RELATED REQUIRE G. Freefall Pinsetter 1. The pinsetter, after the initial bowling ball is rolled, will automatically lift any standing pins and sweep all fallen pins from the pin deck. It then will A. Section 002113 automatically reset the standing pins and return the bowling ball to the bowler. After the second ball is thrown (or if all pins are knocked down on B. Section 004325 the initial first ball) the new pinsetter will automatically set 10 news pins for the bowler to begin a new delivery frame. The new pinsetter is procurement). supported over the pin deck by the kickbacks and will consist of 10 major subassemblies as follows: a. Elevator – removes the bowling pins from the Transport Band sub-assembly for deposit into the Distributor sub-assembly. C. Section 006325 construction). b. Transport Band – moves fallen pins from the pin deck and deposits them to the Elevator. c. Ball Cushion/Pit Curtain – absorbs impact of the bowling ball and pins. D. Section 013000 d. Ball Accelerator – returns bowling ball to the bowler. E. Section 016000 e. Sweep Wagon – sweeps all fallen pins from the pin deck. 1.03 DEFINITIONS f. Setting Table – Resets and Sets pins to the pin deck and provides pin count to Automatic Scorer. g. Drive Frame – holds motors, gears and pulleys to manage all mechanical sub-assemblies. Main Frame – supports the new machine on the kickbacks. Distributor – moves pins from the Elevator to the Setting Table. Electronics – provides programmable controller and machine intelligence. 2. In addition to performing all basic requirements to meet bowler and United States Bowling Congress (USBC) specifications, the new pinsetter will
 - possess the following capabilities:
 - a. Will be able to automatically correct errors that occur if a pin falls before or after spotting.
 - b. Will have ability to remember and reset the last pin combination automatically.
 - c. Will not require a pinsetter cycle when the initial ball is delivered in the channel or just the 7/10 pins are knocked down. d. Will be able to automatically correct bowler fouls and reset a full set of pins.
- B. Substitutions: See General Conditions for definition.
- PART 2 PRODUCTS NOT USED
- PART 3 EXECUTION 3.01 GENERAL REQUIREMENTS

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	DATE:					STRONIC OR ANY ECTLY
be electronically triggered by a bowling ball passing an electronic photocell. The able to conduct self-diagnostics in all different pinsetter modes.						NTS OF SERVICE. THE DRAWINGS AND ASSOCIATED COPIES THEREOF , INCLUDING ELECTRONIC HITECTS: LEWIS + WHITLOCK, PA.A. THEIR USE, REPRESENTATION OR REPRODUCTION FOR ANY 4E ARCHITECT IS PROHIBITED. THIS COPYRIGHT NOTIFICATION SHALL BE TRUE AS IF DIRECTLY ON THIS DOCUMENT AND SHALL NOT BE REMOVED FROM THESE DOCUMENTS
provide electronic codes displayed so the pinsetter mechanic can diagnose errors and provide corrective action. have ability to set individual pins on demand dependent on the Automatic Scorer Involved. hanical and electrical specifications of the new pinsetter will be:	REVIEWED:					: , INCLUI REPROF BE TRUE UMENTS
ensions of 126" long, 66" wide and 76" high and weighs 1,800 pounds (2,000 pound shipping weight). The powered by four (4) each 3 phase motors:	DRAWN:					HEREOF TION OR V SHALL I SSE DOCI
Distributor/Elevator/Transport Band motor – $\frac{1}{2}$ horsepower. Setting Table motor – $\frac{1}{2}$ horsepower.	R	+	$\left \right $	+		OPIES THES THE CONTENT ON THE COM THE
Sweep motor $-\frac{1}{4}$ horsepower. Ball Accelerator motor $-\frac{1}{2}$ horsepower (shared between 2 pinsetters).						IATED Co E, REPRE IT NOTIF OVED FR
rs will be powered by 3 phase – 208 VAC, 220 VAC or 380 VAC with motor movements controlled by the new pinsetter electronics. coall return exit will be located on the side of the new pinsetter.	÷					ASSOCI HEIR USE DPYRIGH BE REMC
first ball delivery the new pinsetter will be capable of picking up a pin that has moved 9 inches in any direction. written warranty associated with the new pinsetter will be:	REVISION:					GS AND PA.A. TH THIS CO L NOT B
Two (2) years mechanical parts and materials. One (1) year on wear items such as belts, chains, etc.		+	$\left \right $	+		DRAWING TLOCK, F IBITED. ⁻ VD SHAL
One (1) year electrical parts. Ninety (90) days labor. All warranties reflect installation by manufacturer.	ë 	+	+	+	024	E. THE C 3 + WHIT S PROHI AENT AN
nine should report error codes, machine states, and diagnostics to pinsetter controller and Automatic Scorer.	DATE:				10/25/2024	= SERVICE TS: LEWIS HITECT IS
ane conditioning system with 39 individual injectors to remove the variation that comes with transfer system machines. n Graphical User Interface to simplify ease of use and programming.	REVIEWED:				C. WHITLOCK	INSTRUMENTS OI RTY OF ARCHITEC ENT WITH THE ARC RENDERING ON TH
d squeegee cleaning system. Frunning on AC or two different types of battery power.	REV	_	\square		C. WI	NSTRUN Y OF AI IT WITH NDERIN
vear warranty on the machine. See Section 016000 - Product Requirements.	DRAWN:					S ARE II ROPERT REEMEN F OR RE
					CS. B.B.	IDERING E THE PF TEN AGF EXHIBIT
Conditions: Verify that building components are acceptable for installation of bowling equipment		SCHEM. DESIGN D SCHEM. DESIGN	50% CONSTRUCTION DOCS.	TION DOCS.		SS AND RENDERINGS ARE INSTRUMEN D FILES, ARE THE PROPERTY OF ARCH PT BY WRITTEN AGREEMENT WITH THE H DRAWING EXHIBIT OR RENDERING O
dance with manufacturer's instructions.		PI SUHE ED SCHE	NSTRUC	90% CONSTRUCTION DOC PERMIT DOCS.	100% CONSTRUCTION DC	DRAWING ND CADE SE EXCEF ON EACF
4000 - Quality Requirements, for additional requirements.	PHASE:	CONCEPT 3	50% COI	90% CONSTRUC	100% CC	THESE I MEDIA A PURPOS PLACED
acturer's field representative to inspect equipment installation for conformance with manufacturer's standards P			<u></u>	0, 1	- -	
acturer's field representative to perform systems startup. art equipment and systems in accordance with manufacturers' instructions and recommendations.		274	ſ	SZ		g
ent for smooth operation.	0	ŗ.	×		10	Building
/ITIES	1	ío-		Ś	sc.	3uil
: Demonstrate operation of system to Owner's personnel. ation and maintenance data as reference during demonstration. valking tour of project.		63	ר			
scribe function, operation, and maintenance of each component.		()				nc
Owner's personnel on operation and maintenance of system. ation and maintenance manual as training reference, supplemented with additional training materials as required.	.	$\frac{0}{0}$	100			na
ninimum of one day of training. : Manufacturer's training personnel.		00		303		nte
At project site.		School	Suite	32303		Maintenance fing
d flooring and equipment from subsequent construction operations. raffic over unprotected floor surface.		رد ج	St.,	Ē		
END OF SECTION 116713		Int	rpe	ee,		tic: Ro
DIVISION 01 - GENERAL REQUIREMENTS SECTION 011000		Cour	Tharpe	lass		elc e
SUMMARY			20 W.	allahassee,		(C) (
LCS Athletics Maintenance Building No. 3 Re-Roof		eon	3420	F		S O O
: Leon County Schools. ne: Architects Lewis + Whitlock, PA.	.		က			ΣĽ
ope includes demolition and replacement of existing translucent roof panels. As well as adding retrofit standing seam roof with insulation						Title:
metal roof and replacing existing gutter and downspout system. CRIPTION	Client:					Job Ti
A single prime contract based on the Cost of the Work plus a fee as described in Document 005000 - Contracting Forms and						
NCY to continue to occupy adjacent portions of the existing building during the entire construction period.						
to occupy the Project upon Substantial Completion.						nts
o Owner to minimize conflict and to facilitate Owner's operations. Vork to accommodate Owner occupancy.						Documents
SE OF SITE AND PREMISES	ant:					Joci
perations: Limited to areas noted on Drawings. Id conduct construction activities in ways that will limit disturbance to site.	Consultant					
s to and from site as required by law and by Owner: cy Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if	ŏ					ucti
s are temporarily altered. struct roadways, sidewalks, or other public ways without permit.						onstruction
and Shutdown: srupt or shut down life safety systems, including but not limited to fire sprinklers and fire alarm system, without 7 days notice to Owner						
ccidental disruption of utility services to other facilities.						24510.1 100% C
E istruction schedule and operations with Owner.						
IOT USED NOT USED	Seal:					Project #: Phase:
END OF SECTION 011000	Se					άà
SECTION 012500 SUBSTITUTION PROCEDURES			P			
ES						
uirements for proposed substitutions. REMENTS						W
3 - Instructions to Bidders: Restrictions on timing of substitution requests.				L		
5 - Substitution Request Form - During Procurement: Required form for substitution requests made prior to award of contract (During						
5 - Substitution Request Form - During Construction: Required form for substitution requests made after award of contract (During	Archi 206 W				Whit	lock
0 - Administrative Requirements: Submittal procedures, coordination. 0 - Product Requirements: Fundamental product requirements, product options, delivery, storage, and handling.	Tallah 850,94	assee 42.171	e, Flor 18	rida 32	2301	
,	www.t	nink3c	d.net			

A. Substitutions: Changes from Contract Documents requirements proposed by Contractor to materials, products, assemblies, and equipment. Substitutions for Cause: Proposed due to changed Project circumstances beyond Contractor's control. 2. Substitutions for Convenience: Proposed due to possibility of offering substantial advantage to the Project. a. Substitution requests offering advantages solely to the Contractor will not be considered.

Description:

Sheet No .:

Specifications

SP1.

A. A Substitution Request for products, assemblies, materials, and equipment constitutes a representation that the submitter: 1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product, equipment, assembly, or svstem Agrees to provide the same warranty for the substitution as for the specified product. 2.

- Agrees to provide same or equivalent maintenance service and source of replacement parts, as applicable.
- Agrees to coordinate installation and make changes to other work that may be required for the work to be complete, with no additional cost to 4.
- Waives claims for additional costs or time extension that may subsequently become apparent. 5.
- Agrees to reimburse Owner and Architect for review or redesign services associated with re-approval by authorities.
- B. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents. Burden of proof is on proposer
- Note explicitly any non-compliant characteristics.
- C. Content: Include information necessary for tracking the status of each Substitution Request, and information necessary to provide an actionable response
- 1. Forms included in the Project Manual are adequate for this purpose, and must be used.
- D. Limit each request to a single proposed substitution item.
- 1. Submit an electronic document, combining the request form with supporting data into single document.

3.02 SUBSTITUTION PROCEDURES DURING PROCUREMENT

- A. Submittal Time Restrictions:
- Section 002113 Instructions to Bidders specifies time restrictions and the documents required for submitting substitution requests during the bidding period 2. Owner will consider requests for substitutions only if submitted at least 10 days prior to the date for receipt of bids.
- B. Submittal Form (before award of contract):
- 1. Submit substitution requests by completing the form in Section 004325; see this section for additional information and instructions. Use only this form; other forms of submission are unacceptable.
- 3.03 SUBSTITUTION PROCEDURES DURING CONSTRUCTION
- A. Submittal Form (after award of contract):
- Submit substitution requests by completing the form in Section 004325. Use only this form; other forms of submission are unacceptable. B. Submit request for Substitution for Cause immedately upon discovery of need for substitution, but not later than 14 days prior to time required for
- review and approval by Architect, in order to stay on approved project schedule.
- C. Submit request for Substitution for Convenience immediately upon discovery of its potential advantage to the project, but not later than 14 days prior to time required for review and approval by Architect, in order to stay on approved project schedule. 1. In addition to meeting general documentation requirements, document how the requested substitution benefits the Owner through cost savings,
- time savings, greater energy conservation, or in other specific ways. Document means of coordinating of substitution item with other portions of the work, including work by affected subcontractors.
- 3. Bear the costs engendered by proposed substitution of: a. Owner's compensation to the Architect for any required redesign, time spent processing and evaluating the request.
- b. Other construction by Owner.
- c. Other unanticipated project considerations.
- D. Substitutions will not be considered under one or more of the following circumstances:
- When they are indicated or implied on shop drawing or product data submittals, without having received prior approval.
- Without a separate written request. When acceptance will require revisions to Contract Documents. 3.
- 3.04 RESOLUTION
- A. Architect may request additional information and documentation prior to rendering a decision. Provide this data in an expeditious manner.
- B. Architect will notify Contractor in writing of decision to accept or reject request.
- 1. Architect's decision following review of proposed substitution will be noted on the submitted form.

3.05 ACCEPTANCE

- A. Accepted substitutions change the work of the Project. They will be documented and incorporated into work of the project by Change Order, Construction Change Directive, Architectural Supplementary Instructions, or similar instruments provided for in the Conditions of the Contract
- 3.06 CLOSEOUT ACTIVITIES
- A. See Section 017800 Closeout Submittals, for closeout submittals.
- B. Include completed Substitution Request Forms as part of the Project record.
 - END OF SECTION 012500
 - **SECTION 013000** ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

- 1.01 SECTION INCLUDES
- A. Electronic document submittal service.
- B. Preconstruction meeting.
- C. Progress meetings
- D. Progress photographs.
- E. Coordination drawings.
- F. Submittals for review, information, and project closeout.
- G. Number of copies of submittals.
- H. Submittal procedures.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

- 3.01 ELECTRONIC DOCUMENT SUBMITTAL SERVICE
- A. All documents transmitted for purposes of administration of the contract are to be in electronic (PDF) format.
- 1. This procedure applies to requests for information (RFIs), shop drawings, information submittals, field reports, meeting minutes, and any other document any participant wishes to make part of the project record.
- 2. It is Contractor's responsibility to submit documents in allowable format.
- Paper document transmittals will not be reviewed.
- 4. All other specified submittal and document transmission procedures apply, except that electronic document requirements do not apply to samples or color selection charts.
- 3.02 PRECONSTRUCTION MEETING
- A. Schedule meeting after Notice of Award.
- B. Attendance Required:
- 1. Owner.
- Architect.
- Contractor 3.

- 2. Designation of personnel representing the parties to Contract. 3. Scheduling.
- D. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.

3.03 PROGRESS MEETINGS

- A. Schedule and administer meetings throughout progress of the Work at maximum Bi-weekly intervals.
- B. Make arrangements for meetings, prepare agenda with copies for participants, preside at meetings.
- C. Attendance Required:
- 1. Contractor.
- 2. Owner.
- 3. Architect.
- 4. Contractor's superintendent.
- D. Agenda: Review minutes of previous meetings.
- 2. Review of work progress.
- 3. Field observations, problems, and decisions.
- 4. Identification of problems that impede, or will impede, planned progress.
- 5. Review of submittals schedule and status of submittals.
- 6. Maintenance of progress schedule.
- 7. Corrective measures to regain projected schedules.
- 8. Planned progress during succeeding work period. 9. Maintenance of quality and work standards.
- 10. Effect of proposed changes on progress schedule and coordination.
- 11. Other business relating to work.
- E. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.
- 3.04 PROGRESS PHOTOGRAPHS
- A. Take photographs as evidence of existing project conditions as follows:
- 3.05 SUBMITTALS FOR REVIEW
- A. When the following are specified in individual sections, submit them for review: 1. Product data.

- C. Agenda:

- Submission of list of subcontractors, list of products, schedule of values, and progress schedule.

 Shop drawings. Samples for selection. 	
4. Samples for verification.	PART 1 GENERAL
B. Submit to Architect for review for the limited purpose of checking for compliance with information given and the design concept expressed in the contract documents.	1.01 SECTION INCLUDES
C. Samples will be reviewed for aesthetic, color, or finish selection.	A. General product requiremen B. Sustainable design-related p
D. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents purposes described in Section 017800 - Closeout Submittals.	C. Re-use of existing products.
3.06 SUBMITTALS FOR INFORMATION A. When the following are specified in individual sections, submit them for information:	 D. Transportation, handling, sto E. Product option requirements
1. Design data.	F. Substitution limitations.
3. Test reports.	G. Maintenance materials, inclu 1.02 RELATED REQUIREMENTS
 Inspection reports. Manufacturer's instructions. 	A. Section 012500 - Substitutio
 Manufacturer's field reports. Other types indicated. 	B. Section 013329.02 - Sustain
B. Submit for Architect's knowledge as contract administrator or for Owner.	C. Section 017419 - Construction substitutions.
3.07 SUBMITTALS FOR PROJECT CLOSEOUT A. Submit Correction Punch List for Substantial Completion.	A. Product Data Submittals: Su
B. Submit Final Correction Punch List for Substantial Completion.	data. Supplement manufact
C. When the following are specified in individual sections, submit them at project closeout in compliance with requirements of Section 017800 - Closeout Submittals:	B. Shop Drawing Submittals: F location of utility outlets for s
 Project record documents. Operation and maintenance data. 	C. Sample Submittals: Illustrate submittals for interfacing wo
3. Warranties. 4. Bonds.	1. For selection from stan
5. Other types as indicated.	D. Sustainable Design Submitta 1. See Section 013329.02
D. Submit for Owner's benefit during and after project completion. 3.08 NUMBER OF COPIES OF SUBMITTALS	1.04 QUALITY ASSURANCE A. Chain-of-Custody (COC): A
A. Electronic Documents: Submit one electronic copy in PDF format; an electronically-marked up file will be returned. Create PDFs at native size and right-side up; illegible files will be rejected.	processing, transformation, i
B. Samples: Submit the number specified in individual specification sections; one of which will be retained by Architect.	B. Chain-of-Custody Certificate forests certified by an FSC-a
 After review, produce duplicates. Retained samples will not be returned to Contractor unless specifically so stated. 	C. Composite Wood and Agrifit particleboard, medium densi
3.09 SUBMITTAL PROCEDURES	D. Corporate Sustainability Rep
A. General Requirements: END OF SECTION 013000	with the manufacturer's prod E. Cradle-to-Cradle Certified: E
SECTION 014000 QUALITY REQUIREMENTS	F. Environmental Product Deck 1. Good: Product-specific
PART 1 GENERAL	2. Better: Industry-wide, g
1.01 SECTION INCLUDES A. Testing and inspection agencies and services.	certification with extern 3. Best: Commercial-proc
B. Control of installation.	4. Where demonstration of
C. Mock-ups.	declarations; or submit G. GreenScreen Chemical Haz
D. Tolerances. E. Manufacturers' field services.	1. Good: GreenScreen (L 2. Better: GreenScreen F
F. Defect Assessment.	 Best: GreenScreen Fu Acceptable Evidence:
1.02 TESTING AND INSPECTION AGENCIES AND SERVICES A. Contractor shall employ and pay for services of an independent testing agency to perform other specified testing.	H. Health Product Declarations
B. Employment of agency in no way relieves Contractor of obligation to perform Work in accordance with requirements of Contract Documents.	OLT) online tools. I. Leadership Extraction Practi
 C. Contractor Employed Agency: 1. Testing agency: Comply with requirements of ASTM E329, ASTM E543, ASTM C1021, ASTM C1077, ASTM C1093, and ASTM D3740. 	bio-based materials; FSC we for the project.
2. Laboratory: Authorized to operate in Florida. PART 3 EXECUTION	J. Manufacturer's Inventory of Registration Number (CAS F
2.01 CONTROL OF INSTALLATION	1. For ingredients conside and GreenScreen Bend
 A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality. B. Comply with manufacturers' instructions, including each step in sequence. 	K. Rapidly Renewable Material
C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.	L. Regional Materials: Materials M. Reused Products: Materials
D. Comply with specified standards as minimum quality for the work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.	N. Source Location: Location of the postal address:
 E. Have work performed by persons qualified to produce required and specified quality. F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer. 	1. In every case, indicate
G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.	 For harvested products For extracted (i.e. mine
2.02 MOCK-UPS	 For recovered products For products involving
 A. Tests shall be performed under provisions identified in this section and identified in the respective product specification sections. B. Assemble and erect specified items with specified attachment and anchorage devices, flashings, seals, and finishes. 	6. Acceptable Evidence: a. Manufacturer's cer
C. Accepted mock-ups shall be a comparison standard for the remaining Work.	b. Life cycle analysis PART 2 PRODUCTS
D. Where mock-up has been accepted by Architect and is specified in product specification sections to be removed, protect mock-up throughout construction, remove mock-up and clear area when directed to do so by Architect.	2.01 EXISTING PRODUCTS
2.03 TOLERANCES A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.	A. Do not use materials and eqB. Existing materials and equip
B. Comply with manufacturers' tolerances. Should manufacturers' tolerances conflict with Contract Documents, request clarification from Architect before	as to remain the property of
proceeding. C. Adjust products to appropriate dimensions; position before securing products in place.	A. Provide new products unless
2.04 TESTING AND INSPECTION	B. All new exterior envelope pro
 A. Testing Agency Duties: 1. Provide qualified personnel at site. Cooperate with Architect and Contractor in performance of services. 	C. Use of products having any 1. Made using or containing
 Perform specified sampling and testing of products in accordance with specified standards. Ascertain compliance of materials and mixes with requirements of Contract Documents. 	2. Containing lead, cadmi D. Where other criteria are met
 Promptly notify Architect and Contractor of observed irregularities or non-compliance of Work or products. Perform additional tests and inspections required by Architect. 	1. Have longer documente
6. Submit reports of all tests/inspections specified.	3. Are made of recycled n
 B. Limits on Testing/Inspection Agency Authority: 1. Agency may not release, revoke, alter, or enlarge on requirements of Contract Documents. 	 Are Cradle-to-Cradle C Have a published Envir
 Agency may not approve or accept any portion of the Work. Agency may not assume any duties of Contractor. 	6. Have a published Healt 2.03 PRODUCT OPTIONS
 Agency has no authority to stop the Work. C. Contractor Responsibilities: 	A. Products Specified by Reference
 Deliver to agency at designated location, adequate samples of materials proposed to be used that require testing, along with proposed mix designs. 	B. Products Specified by Namir or substitutions allowed.
 Cooperate with laboratory personnel, and provide access to the Work and to manufacturers' facilities. Provide incidental labor and facilities: 	C. Products Specified by Namin not named.
a. To provide access to Work to be tested/inspected.	PART 3 EXECUTION
 b. To obtain and handle samples at the site or at source of Products to be tested/inspected. c. To facilitate tests/inspections. 	3.01 SUBSTITUTION LIMITATIONS A. See Section 012500 - Subst
 d. To provide storage and curing of test samples. 4. Notify Architect and laboratory 24 hours prior to expected time for operations requiring testing/inspection services. 	3.02 TRANSPORTATION AND HAN
5. Employ services of an independent qualified testing laboratory and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.	A. Package products for shipm
 6. Arrange with Owner's agency and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements. D. Re-testing required because of non-compliance with specified requirements shall be performed by the same agency on instructions by Architect. 	B. If special precautions are redC. Coordinate schedule of prod
 Re-testing required because of non-compliance with specified requirements shall be paid for by Contractor. 	D. Transport and handle produc
2.05 MANUFACTURERS' FIELD SERVICES A When specified in individual specification sections, require material or product suppliers or manufacturers to provide qualified staff personnel to observe	E. Transport materials in cover F. Promptly inspect shipments
A. When specified in individual specification sections, require material or product suppliers or manufacturers to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, start-up of equipment, test, adjust, and balance equipment as applicable, and to initiate instructions when necessary.	G. Provide equipment and pers
applicable, and to initiate instructions when necessary. B. Report observations and site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturers' written	H. Arrange for the return of pac 3.03 STORAGE AND PROTECTION
instructions. 2.06 DEFECT ASSESSMENT	A. Designate receiving/storage
A. Replace Work or portions of the Work not complying with specified requirements.	area in order to minimize wa B. Store and protect products in
END OF SECTION 014000	C Chara with social and labels in

omp	lying	with	specified	l requirements	5.

END OF SECTION 014000

SECTION 016000 PRODUCT REQUIREMENTS

requirements. sign-related product requirements

ng products.

handling, storage and protection.

equirements.

aterials, including extra materials, spare parts, tools, and software.

- Substitution Procedures: Substitutions made during procurement and/or construction phases.

.02 - Sustainable Design Reporting - LEED v4: Reporting requirements.

- Construction Waste Management and Disposal: Waste disposal requirements potentially affecting product selection, packaging and

ibmittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other nt manufacturers' standard data to provide information specific to this Project.

ubmittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection requirements, and outlets for service for functional equipment and appliances.

als: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample terfacing work.

on from standard finishes, submit samples of the full range of the manufacturer's standard colors, textures, and patterns. ign Submittals: Items necessary to document use of sustainable construction materials, products, and practices. n 013329.02 for Contractor's reporting necessary for achievement of targeted LEED v4 certification level.

(COC): A procedure that tracks a product from the point of harvest or extraction to its end use, including successive stages of sformation, manufacturing, and distribution.

y Certificates: Certificates signed by manufacturers and fabricators certifying that wood used to make products was obtained from by an FSC-accredited certification body to comply with FSC STD-01-001.

l and Agrifiber: Products made of wood particles and/or plant material pressed and bonded with adhesive or resin such as edium density fiberboard (MDF), plywood, wheatboard, strawboard, panel substrates, and door cores.

nability Report: A third-party verified report that outlines the environmental impacts of extraction operations and activities associated cturer's product and the product's supply chain.

e Certified: End use product certified Cradle-to-Cradle v2 Basic or Cradle-to-Cradle v3 Bronze, minimum, as evidenced by C2C (DIR). Product Declaration (EPD): Publicly available, critically reviewed life cycle analysis having at least a cradle-to-gate scope.

duct-specific; compliant with ISO 14044. ustry-wide, generic; compliant with ISO 21930, or with ISO 14044, ISO 14040, ISO 14025, and EN 15804; Type III third-party with external verification, in which the manufacturer is recognized as the program operator.

mercial-product-specific; compliant with ISO 21930, or with ISO 14044, ISO 14040, ISO 14025, and EN 15804; Type III third-party) with external verification, in which the manufacturer is recognized as the program operator. nonstration of impact reduction below industry average is required, submit both industry-wide and commercial-product-specific

s; or submit at least 5 declarations for products of the same type by other manufacturers in the same industry.

nemical Hazard Analysis: Ingredients of 100 parts-per-million or greater evaluated using GreenScreen (METH). enScreen (LIST) evaluation to identify Benchmark 1 hazards; a Health Product Declaration includes this information.

eenScreen Full Assessment.

nScreen Full Assessment by GreenScreen Licensed Profiler.

Evidence: GreenScreen report.

Declarations (HPD): Complete, published declaration with full disclosure of known hazards, prepared using one of the HPDC (HPD-

action Practices: Products that meet at least one of the responsible extraction criteria, which include: extended producer responsibility rials; FSC wood products; materials reuse; recycled content; and other programs approved by sustainability certification system used

nventory of Product Content: Publicly available inventory of every ingredient identified by name and Chemical Abstract Service mber (CAS RN).

ients considered a trade secret or intellectual property, the name and CAS RN may be omitted, provided the ingredient's role, amount, Screen Benchmark are given.

able Materials: Made from agricultural products that are typically harvested within a 10-year or shorter cycle.

als: Materials that are extracted, harvested, recovered, and manufactured within a radius of 100 miles from the Project site.

Materials and equipment previously used in this or other construction, salvaged and refurbished as specified.

Location of harvest, extraction, recovery, or manufacture; where information about source location is required to be submitted, give

ase, indicate the location of final assembly

ted products, indicate location of harvest.

ted (i.e. mined) products, indicate location of extraction.

ered products, indicate location of recovery. ts involving multiple manufacturing steps, provide a description of the process at each step, with location.

Evidence:

acturer's certification. ycle analysis (LCA) performed by third-party.

стѕ

rials and equipment removed from existing premises unless specifically required or permitted by the Contract Documents. Is and equipment indicated to be removed, but not to be re-used, relocated, reinstalled, delivered to the Owner, or otherwise indicated property of the Owner, become the property of the Contractor; remove from site.

ducts unless specifically required or permitted by the Contract Documents.

envelope products must be Florida Product Approved. Provide Notice of Acceptance documentation with submittals.

having any of the following characteristics is not permitted: g or containing CFC's or HCFC's.

lead, cadmium, or asbestos.

teria are met, Contractor shall give preference to products that:

documented life span under normal use.

ess construction waste. See Section 017419

f recycled materials.

-to-Cradle Certified.

blished Environmental Product Declaration (EPD).

olished Health Product Declaration (HPD).

ied by Reference Standards or by Description Only: Use any product meeting those standards or description.

ed by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options

ied by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer

MITATIONS

2500 - Substitution Procedures.

AND HANDLING

ts for shipment in manner to prevent damage; for equipment, package to avoid loss of factory calibration.

tions are required, attach instructions prominently and legibly on outside of packaging.

dule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials. andle products in accordance with manufacturer's instructions.

rials in covered trucks to prevent contamination of product and littering of surrounding areas.

t shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.

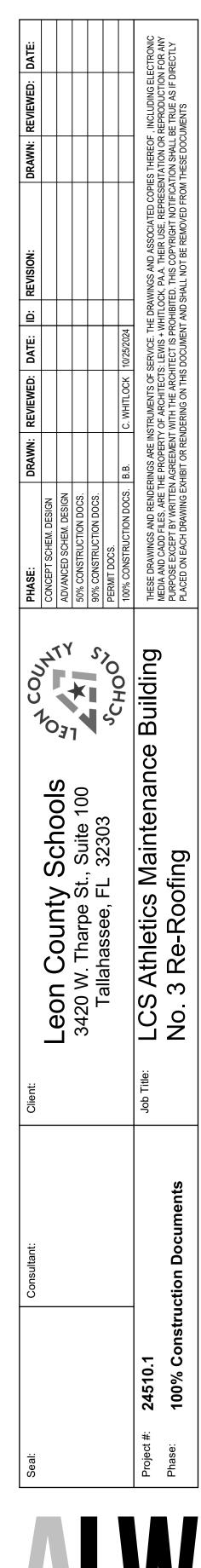
ent and personnel to handle products by methods to prevent soiling, disfigurement, or damage, and to minimize handling.

return of packing materials, such as wood pallets, where economically feasible.

ing/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work minimize waste due to excessive materials handling and misapplication. See Section 017419.

B. Store and protect products in accordance with manufacturers' instructions.

C. Store with seals and labels intact and legible.



Architects Lewis + Whitlock 206 West Virginia St. Tallahassee, Florida 32301 850,942.1718 www.think3d.net

Description:	
Specifications	5



- D. Store sensitive products in weathertight, climate-controlled enclosures in an environment favorable to product.
- E. For exterior storage of fabricated products, place on sloped supports above ground. F. Provide off-site storage and protection when site does not permit on-site storage or protection.
- G. Protect products from damage or deterioration due to construction operations, weather, precipitation, humidity, temperature, sunlight and ultraviolet light, dirt, dust, and other contaminants.
 - H. Comply with manufacturer's warranty conditions, if any.
- I. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.
- J. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.
- K. Prevent contact with material that may cause corrosion, discoloration, or staining.
- L. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.
- M. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

END OF SECTION 016000 **SECTION 017000 EXECUTION AND CLOSEOUT REQUIREMENTS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Examination, preparation, and general installation procedures.
- B. Requirements for alterations work, including selective demolition.
- C. Pre-installation meetings.
- D. Cutting and patching.
- E. Cleaning and protection.
- F. Demonstration and instruction of Owner personnel.
- G. Closeout procedures, including Contractor's Correction Punch List, except payment procedures.
- H. General requirements for maintenance service.
- **1.02 RELATED REQUIREMENTS** A. Section 078400 - Firestopping.

1.03 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Cutting and Patching: Submit written request in advance of cutting or alteration that affects:
 - Structural integrity of any element of Project. Integrity of weather exposed or moisture resistant element.
 - Efficiency, maintenance, or safety of any operational element.
 - Visual qualities of sight exposed elements.

- A. Dust Control: Execute work by methods to minimize raising dust from construction operations. Provide positive means to prevent air-borne dust from dispersing into atmosphere and over adjacent property.
- 1. Provide dust-proof barriers between construction areas and areas continuing to be occupied by Owner.
- B. Noise Control: Provide methods, means, and facilities to minimize noise produced by construction operations. Outdoors: Limit conduct of especially noisy exterior work to the hours of 8 am to 5 pm.
- C. Pest and Rodent Control: Provide methods, means, and facilities to prevent pests and insects from damaging the work.
- D. Rodent Control: Provide methods, means, and facilities to prevent rodents from accessing or invading premises.

1.05 COORDINATION

- A. Coordinate scheduling, submittals, and work of the various sections of the Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later. B. Notify affected utility companies and comply with their requirements.
- C. Verify that utility requirements and characteristics of new operating equipment are compatible with building utilities. Coordinate work of various
- sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.
- D. Coordinate space requirements, supports, and installation of mechanical and electrical work that are indicated diagrammatically on drawings. Follow routing indicated for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
- E. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.
- F. Coordinate completion and clean-up of work of separate sections.
- G. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

PART 2 PRODUCTS 2.01 PATCHING MATERIALS

- A. New Materials: As specified in product sections; match existing products and work for patching and extending work.
- B. Type and Quality of Existing Products: Determine by inspecting and testing products where necessary, referring to existing work as a standard. C. Product Substitution: For any proposed change in materials, submit request for substitution described in Section 016000 - Product Requirements.

PART 3 EXECUTION 3.01 EXAMINATION

- A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions. B. Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.
- C. Examine and verify specific conditions described in individual specification sections.
- D. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.
- E. Verify that utility services are available, of the correct characteristics, and in the correct locations.
- F. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.

3.02 PREPARATION

- A. Clean substrate surfaces prior to applying next material or substance.
- B. Seal cracks or openings of substrate prior to applying next material or substance.
- C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or

3.03 PREINSTALLATION MEETINGS

- A. When required in individual specification sections, convene a preinstallation meeting at the site prior to commencing work of the section.
- B. Require attendance of parties directly affecting, or affected by, work of the specific section.
- C. Notify Architect four days in advance of meeting date.
- D. Prepare agenda and preside at meeting:
- Review conditions of examination, preparation and installation procedures.
- 2. Review coordination with related work.
- E. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.

3.04 GENERAL INSTALLATION REQUIREMENTS

- A. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.
- B. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.
- C. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.
- D. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.
- E. Make neat transitions between different surfaces, maintaining texture and appearance.
- 3.05 ALTERATIONS
- A. Drawings showing existing construction and utilities are based on casual field observation and existing record documents only. Verify that construction and utility arrangements are as indicated.
 - Report discrepancies to Architect before disturbing existing installation.
 - Beginning of alterations work constitutes acceptance of existing conditions.
- B. Remove existing work as indicated and as required to accomplish new work.
- 1. Remove items indicated on drawings.
- Where new surface finishes are to be applied to existing work, perform removals, patch, and prepare existing surfaces as required to receive new 2. finish; remove existing finish if necessary for successful application of new finish. Where new surface finishes are not specified or indicated, patch holes and damaged surfaces to match adjacent finished surfaces as closely as 3.
- possible. C. Services (Including but not limited to HVAC, Plumbing, Fire Protection, Electrical, and Telecommunications): Remove, relocate, and extend existing systems to accommodate new construction.

- Work of Owner or separate Contractor.
- C. Project Record Documents: Accurately record actual locations of capped and active utilities.
- 1.04 PROJECT CONDITIONS

		7E: 2025 //2025	ONIC ANY TLY
1. Maintain existing active systems that are to remain in operation; maintain access to equipment and operational components; if necessary, modify	2.01 APPLICATIONS	: DATE: 2/7/2025	ING ELECTRO NUCTION FOR / AS IF DIRECTI
installation to allow access or provide access panel. 2. Where existing systems or equipment are not active and Contract Documents require reactivation, put back into operational condition; repair	A. Insulation above existing metal roof panels: Expanded Polystyryene Foam	REVIEWED: R. Lewis R. Lewis	UDING I JE AS IF
supply, distribution, and equipment as required. 3. Where existing active systems serve occupied facilities but are to be replaced with new services, maintain existing systems in service until new	2.02 FOAM BOARD INSULATION MATERIALS A. Expanded Polystyrene (EPS) Board Insulation: Complies with ASTM C578.		J F, INCL R REPRI L BE TRI CLIMEN
systems are complete and ready for service. a. Disable existing systems only to make switchovers and connections; minimize duration of outages.	 Flame Spread Index (FSI): Class A - 0 to 25, when tested in accordance with ASTM E84. Smoke Developed Index (SDI): 450 or less, when tested in accordance with ASTM E84. 	DRAWN:	THEREOF ATION OR I ON SHALL E
 b. Provide temporary connections as required to maintain existing systems in service. 4. Verify that abandoned services serve only abandoned facilities. 	 Board Size: 48 inch by 96 inch. Board Thickness: 2 1/2" over existing roof panels and 1" between new purlins. 		COPIES 1 COPIES 1 RESENTA TIFICATIO
5. Remove abandoned pipe, ducts, conduits, and equipment, including those above accessible ceilings; remove back to source of supply where possible, otherwise cap stub and tag with identification; patch holes left by removal using materials specified for new construction.	 Board Edges: Fluted to fit existing roof panels. 2.03 ACCESSORIES 		IATED C E, REPR IT NOTIF
 D. Protect existing work to remain. 1. Prevent movement of structure; provide shoring and bracing if necessary. 	 A. Tape: Reinforced polyethylene film with acrylic pressure sensitive adhesive. 1. Application: Sealing of interior circular penetrations, such as pipes or cables. 	NO. 2	ASSOC IEIR USI IPYRIGH
 Perform cutting to accomplish removals neatly and as specified for cutting new work. Repair adjacent construction and finishes damaged during removal work. 	2. Width: Are required for application.	REVISION: Addendum No Addendum No	GS AND PA.A. TH THIS CC
 E. Adapt existing work to fit new work: Make as neat and smooth transition as possible. 1. When existing finished surfaces are cut so that a smooth transition with new work is not possible, terminate existing surface along a straight line at 	 B. Tape joints of rigid insulation in accordance with roofing and insulation manufacturers' instructions. C. Insulation Fasteners: Lengths of unfinished, 13 gauge, 0.072 inch high carbon spring steel with chisel or mitered tips, held in place by tension, length 		DRAWIN DRAWIN TILOCK, F HIBITED. 7
a natural line of division and make recommendation to Architect. 2. Where a change of plane of 1/4 inch or more occurs in existing work, submit recommendation for providing a smooth transition for Architect	to suit insulation thickness and substrate, capable of securely supporting insulation in place. PART 3 EXECUTION		224 E. THE D + WHIT S PROHI
review and request instructions. F. Patching: Where the existing surface is not indicated to be refinished, patch to match the surface finish that existed prior to cutting. Where the surface	3.01 EXAMINATION	DATE:	ERVICE SERVICE : LEWIS TECT IS
is indicated to be refinished, patch so that the substrate is ready for the new finish. G. Clean existing systems and equipment.	 A. Verify that substrate, adjacent materials, and insulation materials are dry and that substrates are ready to receive insulation. B. Verify substrate surfaces are flat, free of honeycomb, fins, irregularities, or materials or substances that may impede adhesive bond. 		TS OF S IITECTS
H. Remove demolition debris and abandoned items from alterations areas and dispose of off-site; do not burn or bury.	3.02 BOARD INSTALLATION OVER LOW SLOPE ROOF DECK	REVIEWED:	
 I. Do not begin new construction in alterations areas before demolition is complete. J. Comply with all other applicable requirements of this section. 	 A. Board Installation Over Roof Deck, General: 1. See applicable roofing specification section for specific board installation requirements. 		
3.06 CUTTING AND PATCHING	 Fasten insulation to deck in accordance with roofing manufacturer's written instructions and applicable Factory Mutual requirements. Do not apply more insulation than can be covered with roofing on the same day. 	DRAWN:	E B.B. INGS AF E PROP AGREET
 A. Whenever possible, execute the work by methods that avoid cutting or patching. B. See Alterations article above for additional requirements. 	 3.03 FIELD QUALITY CONTROL A. See Section 014000 - Quality Requirements for additional requirements. 	NE CON	ARE TH RITTEN
C. Perform whatever cutting and patching is necessary to: 1. Complete the work.	3.04 PROTECTION	SCHEM. DESIG SCHEM. DESIG SCHEM. DESIG ISUCTION DOC IRUCTION DOC CCS.	S AND R FILES, J DRAWI
2. Fit products together to integrate with other work.	A. Do not permit installed insulation to be damaged prior to its concealment. END OF SECTION 072100	SCHEM SCHEM SCHE SCHE SCHE SCHEM SCH	
 Provide openings for penetration of mechanical, electrical, and other services. Match work that has been cut to adjacent work. Repair areas adjacent to cuts to required condition. 	SECTION 074113 METAL ROOF PANELS	ASE: NCEPT /ANCET /ANCET /ANCET /ANCET	SE DR/ SE DR/ DIA ANC ?POSE F
 Repair areas adjacent to cuts to required condition. Repair new work damaged by subsequent work. Remove samples of installed work for testing when requested. 	PART 1 GENERAL	90% PER	
 Remove samples of installed work for testing when requested. Remove and replace defective and non-complying work. 	1.01 SECTION INCLUDES A. Architectural roofing system of preformed steel panels.		
D. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.	A. Architectural rooting system of preformed steel panels. 1.02 RELATED REQUIREMENTS	ATY SIO	ng
E. Employ original installer to perform cutting for weather exposed and moisture resistant elements, and sight exposed surfaces.	 A. Section 072100 - Thermal Insulation: Rigid roof insulation. 1.03 SUBMITTALS 	Ŏ , Ŏ	di.
 F. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval. G. Restore work with new products in accordance with requirements of Contract Documents. 	A. See Section 013000 - Administrative Requirements, for submittal procedures.		nii
H. Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.	 B. Product Data: Manufacturer's data sheets on each product to be used, including: 1. Storage and handling requirements and recommendations. 	1031	
 At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material in accordance with Section 078400, to full thickness of the penetrated element. 	 Installation methods. Specimen warranty. 		nce
 J. Patching: 1. Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. 	 C. Shop Drawings: Include layouts of roof panels, details of edge and penetration conditions, spacing and type of connections, flashings, underlayments, and special conditions. 	00 0 S	σ
For an assembly, refinish entire unit. 2. Match color, texture, and appearance.	1. Show work to be field-fabricated or field-assembled.	0 T 0	ten
 Repair patched surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. If defects are due to condition of substrate, repair substrate prior to repairing finish. 	D. Warranty: Submit specified manufacturer's warranty and ensure that forms have been completed in Owner's name and are registered with manufacturer.	ch (Suite	laintei
8.07 PROGRESS CLEANING A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.	1.04 QUALITY ASSURANCE A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented		Ma
 Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space. 	experience.	unty arpe St see, Fl	CS 00
 Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust. Collect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site; do not burn or bury. 	 1.05 DELIVERY, STORAGE, AND HANDLING A. Store roofing panels on project site as recommended by manufacturer to minimize damage to panels prior to installation. 	un arp	-Ric
3.08 PROTECTION OF INSTALLED WORK	1.06 WARRANTY	Th C	Athletic 3 Re-Ro
 A. Protect installed work from damage by construction operations. B. Provide special protection where specified in individual specification sections. 	 A. See Section 017800 - Closeout Submittals, for additional warranty requirements. PART 2 PRODUCTS 	allar allar	
 Provide special protection where specified in individual specification sections. C. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage. 	2.01 MANUFACTURERS		O O
 D. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings. E. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet 	A. Basis of Design: 1. Metal Roof Panels: 16in width 2	34, 34,	ΪŽ
materials.	B. Metal Roof Panels: 1. Englert, Inc; S2500: www.englertinc.com.		ä
F. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.	 MBCI, Superlok: www.mbci.com. Petersen Aluminum Corporation; Tite-Loc Plus Panel: www.pac-clad.com. 	lient:	b Title
G. Remove protective coverings when no longer needed; reuse or recycle coverings if possible. 3.09 FINAL CLEANING	 Substitutions: See Section 016000 - Product Requirements. 2.02 METAL ROOF PANELS 	0	۲ ۲
A. Use cleaning materials that are nonhazardous.	A. Metal Roof Panels: Provide complete engineered system complying with specified requirements and capable of remaining weathertight while		
 B. Remove all labels that are not permanent. Do not paint or otherwise cover fire test labels or nameplates on mechanical and electrical equipment. C. Clean debris from roofs, gutters, downspouts, scuppers, overflow drains, area drains, drainage systems, and 	withstanding anticipated movement of substrate and thermally induced movement of roofing system. B. Metal Panels panels with factory-applied finish.		۵ ۵
D. Clean site; sweep paved areas, rake clean landscaped surfaces.	 Steel Panels: a. Zinc-coated steel complying with ASTM A653/A653M; minimum G90 galvanizing. 		ent
 E. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site; dispose of in legal manner; do not burn or bury. .10 CLOSEOUT PROCEDURES 	 b. Steel Thickness: Minimum 24 gauge (0.024 inch). 2. Profile: Standing seam, with minimum 2.0 inch seam height; concealed fastener system for field seaming with special tool. 		m
 A. Make submittals that are required by governing or other authorities. 1. Provide copies to Architect and Owner. 	 Texture: Smooth, with intermediate ribs for added stiffness. Width: Maximum panel coverage of 16 inches. 	lltant:	Doc
B. Accompany Project Coordinator on preliminary inspection to determine items to be listed for completion or correction in the Contractor's Correction	2.03 ATTACHMENT SYSTEM	Consul	tion
Punch List for Contractor's Notice of Substantial Completion. C. Notify Architect when work is considered ready for Architect's Substantial Completion inspection.	A. Concealed System: Provide manufacturer's standard galvanized steel concealed anchor clips designed for specific roofing system and engineered to meet performance requirements, including anticipated thermal movement.		
D. Submit written certification containing Contractor's Correction Punch List, that Contract Documents have been reviewed, work has been inspected, and that work is complete in accordance with Contract Documents and ready for Architect's Substantial Completion inspection.	2.04 SECONDARY FRAMING A. Secondary Framing for Roof Retrofit: Light gauge, asymmetrical section, steel zee profile framing precut with notches that match size, shape and) Inst
E. Conduct Substantial Completion inspection and create Final Correction Punch List containing Architect's and Contractor's comprehensive list of items	 B. Framing Material: ASTM A 1011/A 1011M, Designation SS steel sheet. 		0.1 C C
identified to be completed or corrected and submit to Architect. F. Correct items of work listed in Final Correction Punch List and comply with requirements for access to Owner-occupied areas.	2.05 FINISHES		24510.1 100% Co
 G. Notify Architect when work is considered finally complete and ready for Architect's Substantial Completion final inspection. H. Complete items of work determined by Architect listed in executed Certificate of Substantial Completion. 	A. Galvalume 2.06 ACCESSORIES		
 H. Complete items of work determined by Architect listed in executed Certificate of Substantial Completion. 3.11 MAINTENANCE 	A. Miscellaneous Sheet Metal Items: Provide flashings, gutters, downspouts, trim, moldings, closure strips, and caps of the same material, thickness, and	i i i i i i i i i i i i i i i i i i i	ject # se:
 A. Provide service and maintenance of components indicated in specification sections. B. Maintenance Period: As indicated in specification sections or, if not indicated, not less than one year from the Date of Substantial Completion or the 	finish as used for the roofing panels. Items completely concealed after installation may optionally be made of stainless steel. B. Rib and Ridge Closures: Provide prefabricated, close-fitting components of steel with corrosion resistant finish or combination steel and closed-cell	Seç	Proje Phas
length of the specified warranty, whichever is longer.	foam. C. Sealants:		
END OF SECTION 017000 DIVISION 07 - THERMAL AND MOISTURE PROTECTION	1. Exposed Sealant: Elastomeric; silicone, polyurethane, or silyl-terminated polyether/polyurethane.		
SECTION 072100 THERMAL INSULATION	2. Concealed Sealant: Non-curing butyl sealant or tape sealant. D. Thermal Insulation overlayment coverboard: Provide rigid type, faced with non-dusting vapor retarder tested for maximum flame spread index of 50, per	5	
PART 1 GENERAL	ASTM E84.		
1.01 SECTION INCLUDES A. Board insulation over existing roofing material.	 Product: Densdeck Roof Board; www.buildgp.com /2 E. Underlayment: Self-adhering rubber-modified asphalt sheet complying with ASTM D1970/D1970M; 22 mil total thickness; with strippable release film 		
.02 RELATED REQUIREMENTS	and woven polypropylene sheet top surface. 1. Sheet Thickness: 40 mil, 0.040 inch minimum total thickness.	A. 199 6 1	- 141 - 1
 .03 REFERENCE STANDARDS A. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation; 2015a. 	 Self Sealability: Passing nail sealability test specified in ASTM D1970/D1970M. Manufacturers: 	Architects Lewis + Wh 206 West Virginia St.	
B. ASTM C1338 - Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings; 2019.	a. Henry Company; Blueskin RF200: www.henry.com/#sle.b. GCP Applied Technologies; Grace Ice and Water Shield: www.gcpat.com/#sle	Tallahassee, Florida 3230 850,942.1718)1
 C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2015a. D. ASTM E136 - Standard Test Method for Behavior of Materials in a Vertical Tube Furnace At 750 Degrees C; 2012. 	 c. Owens Corning; Titanium PSU30: www.https://www.owenscorning.com/#sle d. Tamco NOT TO BE USED 	www.think3d.net	
I.04 SUBMITTALS	PART 3 EXECUTION	Description:	
 A. See Section 013000 - Administrative Requirements for submittal procedures. B. Product Data: Provide data on product characteristics, performance criteria, and product limitations. 	 3.01 EXAMINATION A. Do not begin installation of preformed metal roof panels until substrates have been properly prepared. 	Specification	5
C. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.	B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.		
1.05 FIELD CONDITIONS A. Do not install insulation adhesives when temperature or weather conditions are detrimental to successful installation.	3.02 PREPARATION A. Coordinate roofing work with provisions for roof drainage, flashing, trim, penetrations, and other adjoining work to assure that the completed roof will be	Sheet No.:	
PART 2 PRODUCTS	free of leaks.		•
		SP1	.3
		1	

bodied bituminous paint.	SECTION 077123 MANUFACTURED GUTTERS AND DOWNSPOUTS	C. Masking sealants.
	PART 1 GENERAL	D. Joint Clea
A. Overall: Install roofing system in accordance with approved shop drawings and panel manufacturer's instructions and recommendations, as applicable to specific project conditions. Anchor all components of roofing system securely in place while allowing for thermal and structural movement.	 1.01 SECTION INCLUDES A. Pre-finished aluminum gutters and downspouts. 	E. Primers: PART 3 EXECUTION
1. Install roofing system with concealed clips and fasteners, except as otherwise recommended by manufacturer for specific circumstances.	1.02 ADMINISTRATIVE REQUIREMENTS	3.01 EXAMINATIO
 Minimize field cutting of panels. Where field cutting is absolutely required, use methods that will not distort panel profiles. Use of torches for field cutting is absolutely prohibited. 	A. Comply with SMACNA (ASMM) for sizing components for rainfall intensity determined by a storm occurrence of 1 in 10 years.	A. Verify tha
B. Accessories: Install all components required for a complete roofing assembly, including flashings, gutters, downspouts, trim, moldings, closure strips,	B. Comply with applicable code for size and method of rain water discharge.	B. Verify tha
caps, equipment curbs, rib closures, ridge closures, and similar roof accessory items. C. Roof Panels: Install panels in strict accordance with manufacturer's instructions, minimizing transverse joints except at junction with penetrations.	1.03 SUBMITTALS	C. Verify th
1. Form weathertight standing seams incorporating concealed clips, using an automatic mechanical seaming device approved by the panel	A. See Section 013000 - Administrative Requirements for submittal procedures.	3.02 PREPARAT
manufacturer. 2. Incorporate concealed clips at panel joints, and apply snap-on battens to provide weathertight joints.	 B. Product Data: Provide data on prefabricated components. C. Shop Drawings: Indicate locations, configurations, jointing methods, fastening methods, locations, and installation details. 	A. Remove B. Clean jo
3. Provide sealant tape or other approved joint sealer at lapped panel joints.	1.04 DELIVERY, STORAGE, AND HANDLING	C. Perform
4. Install sealant or sealant tape, as recommended by panel manufacturer, at end laps and side joints.	A. Stack material to prevent twisting, bending, or abrasion, and to provide ventilation. Slope to drain.	D. Mask el
D. Insulation: Install insulation between roof covering and supporting members to present a neat appearance. Fold, staple, and tape seams unless otherwise approved by Architect.	B. Prevent contact with materials that could cause discoloration, staining, or damage.	be com 3.03 INSTALLA
4 CLEANING		A. Perform
A. Clean exposed sheet metal work at completion of installation. Remove grease and oil films, excess joint sealer, handling marks, and debris from installation, leaving the work clean and unmarked, free from dents, creases, waves, scratch marks, or other damage to the finish.	2.01 MANUFACTURERS A. Gutters and Downspouts:	B. Perform
5 PROTECTION	1. Englert, Inc: www.englertinc.com.	C. Install
A. Do not permit storage of materials or roof traffic on installed roof panels. Provide temporary walkways or planks as necessary to avoid damage to	 MBCI: www.mbci.com. Petersen Aluminum Corporation: www.pac-clad.com. 	D. Install
completed work. Protect roofing until completion of project. B. Touch-up, repair, or replace damaged roof panels or accessories before Date of Substantial Completion.	2.02 MATERIALS	E. Do not entire o
END OF SECTION 074113	A. Aluminum Sheet: ASTM B209/B209M; 0.032 inch thick.	F. Nonsa
SECTION 074213	 Finish: Class I anodized. Color: Clear. 	3.04 FIELD QU
METAL WALL PANELS	2.03 COMPONENTS	A. Perform
RT 1 GENERAL 1 SECTION INCLUDES	A. Gutters: Profile as indicated.	B. Non-De C. Remov
A. Metal wall panel system.	B. Downspouts: Profile as indicated.	3.05 POST-OC
2 REFERENCE STANDARDS	 C. Anchors and Supports: Profiled to suit gutters and downspouts. 1. Anchoring Devices: In accordance with CDA requirements. 	A. Post-O
A. ASTM D1970/D1970M - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment	2. Gutter Supports: Straps.	i.e. at l
for Ice Dam Protection; 2013. 3 SUBMITTALS	 Downspout Supports: Brackets. D. Fasteners: Same material and finish as gutters and downspouts, with soft neoprene washers. 	
A. See Section 013000 - Administrative Requirements for submittal procedures.	2.04 ACCESSORIES	
B. Product Data - Wall System: Manufacturer's data sheets on each product used, including:	A. Splash Pads: Precast concrete type, profiles size(s) as indicated; minimum 3,000 psi compressive strength at 28 days, with minimum 5 percent air	
 Physical characteristics of components shown on shop drawings. Storage and handling requirements and recommendations. 	entrainment.	
 Installation instructions and recommendations. 	PART 3 EXECUTION 3.01 EXAMINATION	
C. Manufacturer's qualification statement.	A. Verify that surfaces are ready to receive work.	
D. Installer's qualification statement.	3.02 INSTALLATION	
4 QUALITY ASSURANCE A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years of documented	A. Install gutters, downspouts, and accessories in accordance with manufacturer's instructions.	
experience.	B. Slope gutters min. 1/4" per 10' (or as required by code).	
B. Installer Qualifications: Company specializing in installing products specified in this section with minimum three years of documented experience.	END OF SECTION 077123 SECTION 079200	
5 DELIVERY, STORAGE, AND HANDLING	JOINT SEALANTS	
 A. Protect panels from accelerated weathering by removing or venting sheet plastic shipping wrap. B. Store prefinished material off the ground and protect it from weather; prevent twisting, bending, or abrasion; provide ventilation; slope metal sheets to 	PART 1 GENERAL	
ensure proper drainage.	1.01 SECTION INCLUDES	
C. Prevent contact with materials that cause discoloration or staining of products.	 A. Nonsag gunnable joint sealants. B. Joint backings and accessories. 	
6 FIELD CONDITIONS	1.02 SUBMITTALS	
 A. Do not install wall panels when air temperature or relative humidity is outside manufacturer's limits. RT 2 PRODUCTS 	A. Product Data for Sealants: Submit manufacturer's technical data sheets for each product to be used, that includes the following.	
01 MANUFACTURERS	 Physical characteristics, including movement capability, VOC content, hardness, cure time, and color availability. List of backing materials approved for use with the specific product. 	
A. Metal Wall Panels - Exposed Fasteners:	3. Substrates that product is known to satisfactorily adhere to and with which it is compatible.	
 Berridge Manufacturing Company; M Panel: www.berridge.com/#sle. Substitutions: See Section 016000 - Product Requirements. 	4. Substrates the product should not be used on.	
2 METAL WALL PANEL SYSTEM	B. Product Data for Accessory Products: Submit manufacturer's technical data sheet for each product to be used, including physical characteristics, installation instructions, and recommended tools.	
A. Wall Panel System: Factory-fabricated prefinished metal panel system, site assembled.	C. Color Cards for Selection: Where sealant color is not specified, submit manufacturer's color cards showing standard colors available for selection.	
 Provide exterior wall panels. Size components to support assembly dead loads and withstand live loads caused by positive and negative wind pressure acting normally to 	D. Sustainable Design Documentation: For sealants and primers, submit VOC content and emissions documentation; see Section 016116.	
plane of wall.	1.03 QUALITY ASSURANCE A. Maintain one copy of each referenced document covering installation requirements on site.	
 Maximum Allowable Deflection of Panel: L/180 for length (L) of span. Movement: Accommodate movement within system without damage to components or deterioration of seals, movement between system and 	B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented	
perimeter components when subject to seasonal temperature cycling, dynamic loading and release of loads, and deflection of structural support framing.	experience.	
5. Drainage: Provide positive drainage to exterior for moisture entering or condensation occurring within panel system.	C. Installer Qualifications: Company specializing in performing the work of this section and with at least three years of documented experience.	
6. Fabrication: Formed true to shape, accurate in size, square, and free from distortion or defects; pieces of longest practical lengths.	 D. Field Quality Control Plan: 1. Inspection and testing to be performed by the manufacturer's representative. 	
B. Exterior Wall Panels: 1. Profile: Vertical.	2. Visual inspection of entire length of sealant joints.	
2. Side Seams: Interlocking.	 Non-destructive field adhesion testing of sealant joints. a. For each different sealant and substrate combination, allow for one test every 12 inches in the first 10 linear feet of joint and one test every 	
3. Panel Width: a. M Panel: 36 inches	24 inches thereafter. b. If any failures occur in the first 10 linear feet, continue testing at 12 inches intervals at no extra cost to Owner.	
4. Color: As selected by Architect from manufacturer's standard line.	E. Field Adhesion Tests of Joints: Test for adhesion using most appropriate method in accordance with ASTM C1521, or other applicable method as	
 C. Internal and External Corners: Same material, thickness, and finish as exterior sheets; profile to suit system; shop-cut to required angles. D. Trim: Same material, thickness and finish as exterior sheets; brake formed to required profiles. 	recommended by manufacturer.	
 D. Trim: Same material, thickness and finish as exterior sheets; brake formed to required profiles. E. Anchors: Galvanized steel. 	1.04 WARRANTY	
3 ACCESSORIES	 A. Correct defective work within a five year period after Date of Substantial Completion. B. Warranty: Include coverage for installed sealants and accessories that fail to achieve watertight seal, exhibit loss of adhesion or cohesion, or do not 	
A. Exposed Sealant: Elastomeric; silicone, polyurethane, or silyl-terminated polyether/polyurethane, compatible with PVDF paint system.	cure.	
 B. Fasteners: Manufacturer's standard type to suit application; with soft neoprene washers, stainless steel. 1. Metal-to-Metal Fasteners: Self-drilling, self-tapping screws, coated and corrosion-resistant. 	PART 2 PRODUCTS	
C. Field Touch-Up Paint: As recommended by panel manufacturer.	2.01 MANUFACTURERS	
D. Underlayment: Self-adhering polymer modified asphalt sheet complying with ASTM D1970/D1970M, with strippable release film and top surface of	 A. Non-Sag Sealants: Permits application in joints on vertical surfaces without sagging or slumping. 1. Dow Chemical Company: consumer.dow.com/en-us/industry/ind-building-construction.html/#sle. 	
woven polypropylene sheet.	 Pecora Corporation: www.pecora.com/#sle. Sika Corporation: www.usa-sika.com/#sle. 	
	 Sika Corporation: www.usa-sika.com/#sie. Tremco Commercial Sealants & Waterproofing: www.tremcosealants.com/#sle. 	
	2.02 JOINT SEALANT APPLICATIONS	
1 EXAMINATION	A. Scope:	
 1 EXAMINATION A. Verify building framing members ready to receive panels. B. Verify wall panel substrate ready to receive panels; see Section 054000. C. Weather Barrier: 	 A. Scope: 1. Exterior Joints: Seal open joints, whether or not the joint is indicated on drawings, unless specifically indicated not to be sealed. Exterior joints to be sealed include, but are not limited to, the following items. 	
 1 EXAMINATION A. Verify building framing members ready to receive panels. B. Verify wall panel substrate ready to receive panels; see Section 054000. C. Weather Barrier: 2 PREPARATION 	 A. Scope: 1. Exterior Joints: Seal open joints, whether or not the joint is indicated on drawings, unless specifically indicated not to be sealed. Exterior joints to be sealed include, but are not limited to, the following items. a. Joints between different exposed materials. 	
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 I EXAMINATION A. Verify building framing members ready to receive panels. B. Verify wall panel substrate ready to receive panels; see Section 054000. C. Weather Barrier: 2 PREPARATION A. Protect surrounding areas and adjacent surfaces from damage during execution of this work. 3 INSTALLATION A. Install panels on walls in accordance with manufacturer's instructions. B. Protect surfaces in contact with cementitious materials and dissimilar metals with bituminous paint; allow to dry prior to wall panel installation. C. Fasten panels to structural supports; align, level, and plumb. D. Locate joints over supports. E. Lap panel ends 4 inches wide, minimum. F. Seal and place gaskets to prevent weather penetration. Maintain neat appearance. 	 A. Scope: Exterior Joints: Seal open joints, whether or not the joint is indicated on drawings, unless specifically indicated not to be sealed. Exterior joints to be sealed include, but are not limited to, the following items. Joints between different exposed materials. Do not seal the following types of joints. Joints indicated to be treated with manufactured expansion joint cover or some other type of sealing device. Joints where installation of sealant is specified to be provided by manufacturer of product to be sealed. Joints where installation of sealant is specified in another section. Exterior Joints: Use nonsag non-staining silicone sealant, unless otherwise indicated. 2.03 JOINT SEALANTS - GENERAL Sealants and Primers: Provide products having lower volatile organic compound (VOC) content than indicated in SCAQMD 1168. Colors: As indicated on drawings. 2.04 NONSAG JOINT SEALANTS A. Non-Staining Silicone Sealant: ASTM C920, Grade NS, Uses M and A; not expected to withstand continuous water immersion or traffic. Movement Capability: +100/-50%, minimum. Dirt Pick-Up: Reduced dirt pick-up compared to other silicone sealants. 	
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PI EXAMINATION A. Verify building framing members ready to receive panels. B. Verify wall panel substrate ready to receive panels; see Section 054000. C. Weather Barrier: D2 Verify wall panel substrate ready to receive panels; see Section 054000. D3 Verify wall panel substrate ready to receive panels; see Section 054000. D4 Weather Barrier: D5 Verify wall panel substrate ready at the receive from damage during execution of this work. D5 Verify wall panels on walls in accordance with manufacturer's instructions. B. Protect surfaces in contact with cementitious materials and dissimilar metals with bituminous paint; allow to dry prior to wall panel installation. C. Fasten panels to structural supports; align, level, and plumb. D. Locate joints over supports. E. Lap panel ends 4 inches wide, minimum. F. Seal and place gaskets to prevent weather penetration. Maintain neat appearance. PV Veriation from Plane or Location As Indicated on Drawings: 1/4 inch wide, maximum. B. Veriation from Plane or Location As Indicated on Drawings: 1/4 inch wide, maximum. B. Veriation from Plane or Location As Indicateds. A. Remove protective material from wall panel surfac	 A. Scope: Exterior Joints: Seal open joints, whether or not the joint is indicated on drawings, unless specifically indicated not to be sealed. Exterior joints to be sealed include, but are not limited to, the following items.	
 B. Verify wall panel substrate ready to receive panels; see Section 054000. C. Weather Barrier: PREPARATION A. Protect surrounding areas and adjacent surfaces from damage during execution of this work. 103 INSTALLATION A. Install panels on walls in accordance with manufacturer's instructions. B. Protect surfaces in contact with cementitious materials and dissimilar metals with bituminous paint; allow to dry prior to wall panel installation. C. Fasten panels to structural supports; align, level, and plumb. D. Locate joints over supports. E. Lap panel ends 4 inches wide, minimum. F. Seal and place gaskets to prevent weather penetration. Maintain neat appearance. 104 TOLERANCES A. Offset From True Alignment Between Adjacent Members Abutting or In-Line: 1/4 inch in 20 feet wide, maximum. B. Variation from Plane or Location As Indicated on Drawings: 1/4 inch wide, maximum. 105 CLEANING A. Remove site cuttings from finish surfaces. 	 A. Scope: Exterior Joints: Seal open joints, whether or not the joint is indicated on drawings, unless specifically indicated not to be sealed. Exterior joints to be sealed include, but are not limited to, the following items.	

Self-adhesive, nonabsorbent, non-staining, removable without adhesive residue, and compatible with surfaces adjacent to joints and

Non-corrosive and non-staining type, type recommended by sealant manufacturer; compatible with joint forming materials. recommended by sealant manufacturer to suit application; non-staining.

ts are ready to receive work. King materials are compatible with sealants. Ker rods are of the correct size.

materials and foreign matter that could impair adhesion of sealant.

d prime as necessary, in accordance with manufacturer's instructions.

ation in accordance with manufacturer's instructions and ASTM C1193.

and surfaces adjacent to joints from damage and disfigurement due to sealant work; be aware that sealant drips and smears may not emovable.

n accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions. ation in accordance with ASTM C1193.

aker backing tape where backer rod cannot be used.

ree of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces.

ealant when ambient temperature is outside manufacturer's recommended temperature range, or will be outside that range during the riod, unless manufacturer's approval is obtained and instructions are followed.

ts: Tool surface concave, unless otherwise indicated; remove masking tape immediately after tooling sealant surface. **ONTROL**

uality control inspection/testing as specified in PART 1 under QUALITY ASSURANCE article. e Adhesion Testing: If there are any failures in first 100 linear feet, notify Architect immediately.

place failed portions of sealants using same materials and procedures as indicated for original installation.

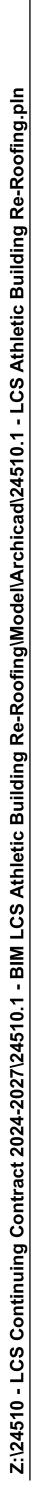
ey Inspection: Perform visual inspection of entire length of project sealant joints at a time that joints have opened to their greatest width; erature in thermal cycle. Report failures immediately and repair. END OF SECTION 079200

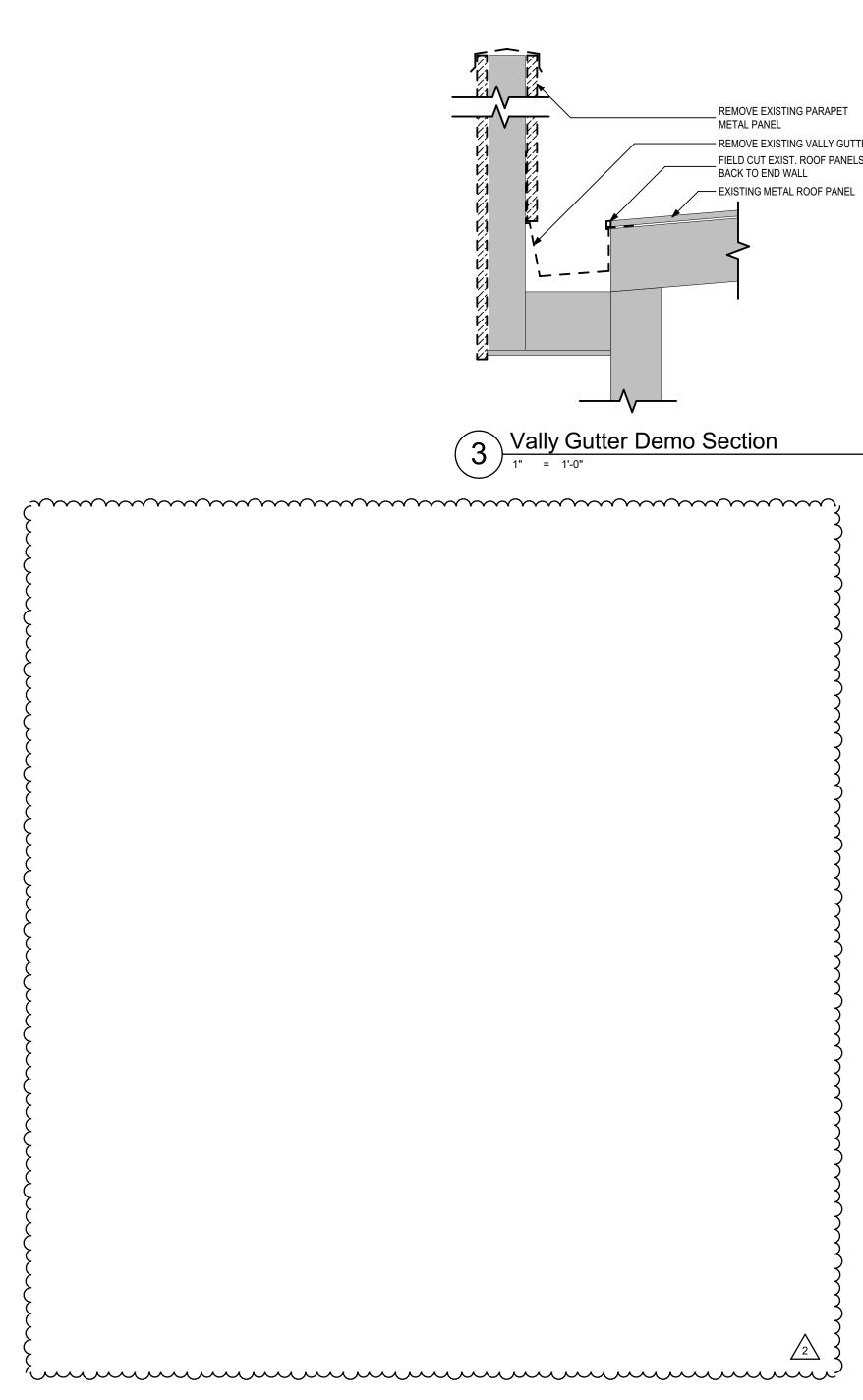
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			-	CONCEPT SCHEM. DESIGN			1 Addenc	Addendum No. 2	BB	R. Lewis.	2/7/2025
				ADVANCED SCHEM. DESIGN			2 Addenc	Addendum No. 3	BB	R. Lewis.	2/20/2025
			- - - -	50% CONSTRUCTION DOCS.							
			l allahassee, Florida	90% CONSTRUCTION DOCS.							
				PERMIT DOCS.							
				100% CONSTRUCTION DOCS.							
Project #: 24510.1		Job Title:	LCC Athletice Maintenance Building	THESE DRAWINGS AND RENDEL	RINGE RE INS	TRUMENTS OF SERVICE.		AND ASSOCIATED CO	DPIES THEREO		
Phase: 100% Construction Documents	ion Documents			PLACED ON EACH DEAL ARE THANKED ON THE ACHIECT IS PROHIBITED. THER USE, REPRESENTATION OF REFERENCE PLACED ON EACH DRAWING EXHIBIT OR RENDERING ON THIS DOCUMENT AND SHALL NOT BE REMOVED FROM THESE DOCUMENTS	AGREEMENT (HIBIT OR RENE	WITH THE AECHITECT IS IERING ON THIS DOCUME	+ WHILLOCK, FA. PROHIBITED. THI ENT AND SHALL N	A. INEIR USE, KEPKE IS COPYRIGHT NOTIF VOT BE REMOVED FR	ICATION SHALL	BE TRUE AS IF	DIRECTL

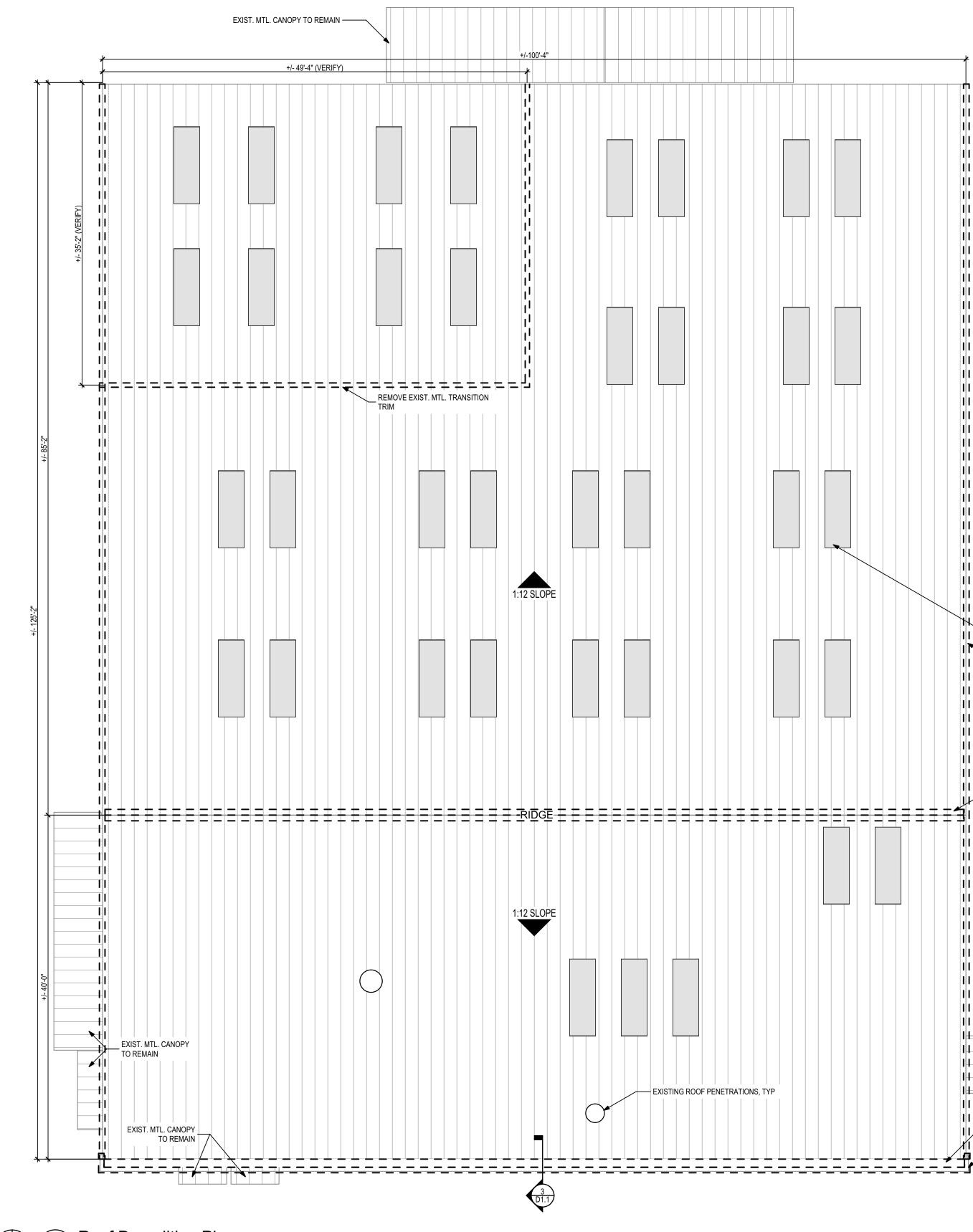


Architects Lewis + Whitlock 206 West Virginia St. Tallahassee, Florida 32301 850,942.1718 www.think3d.net

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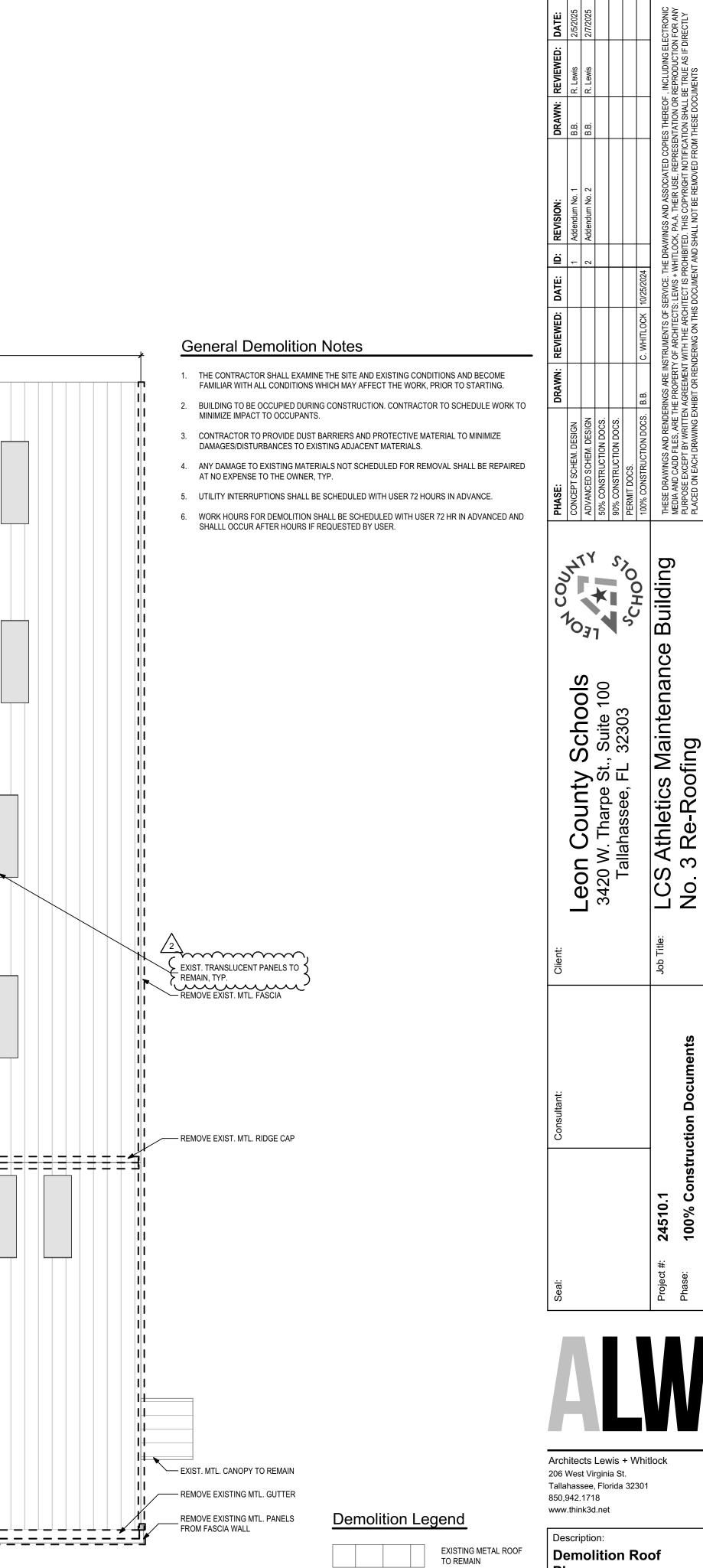






REMOVE EXISTING PARAPET - REMOVE EXISTING VALLY GUTTER FIELD CUT EXIST. ROOF PANELS

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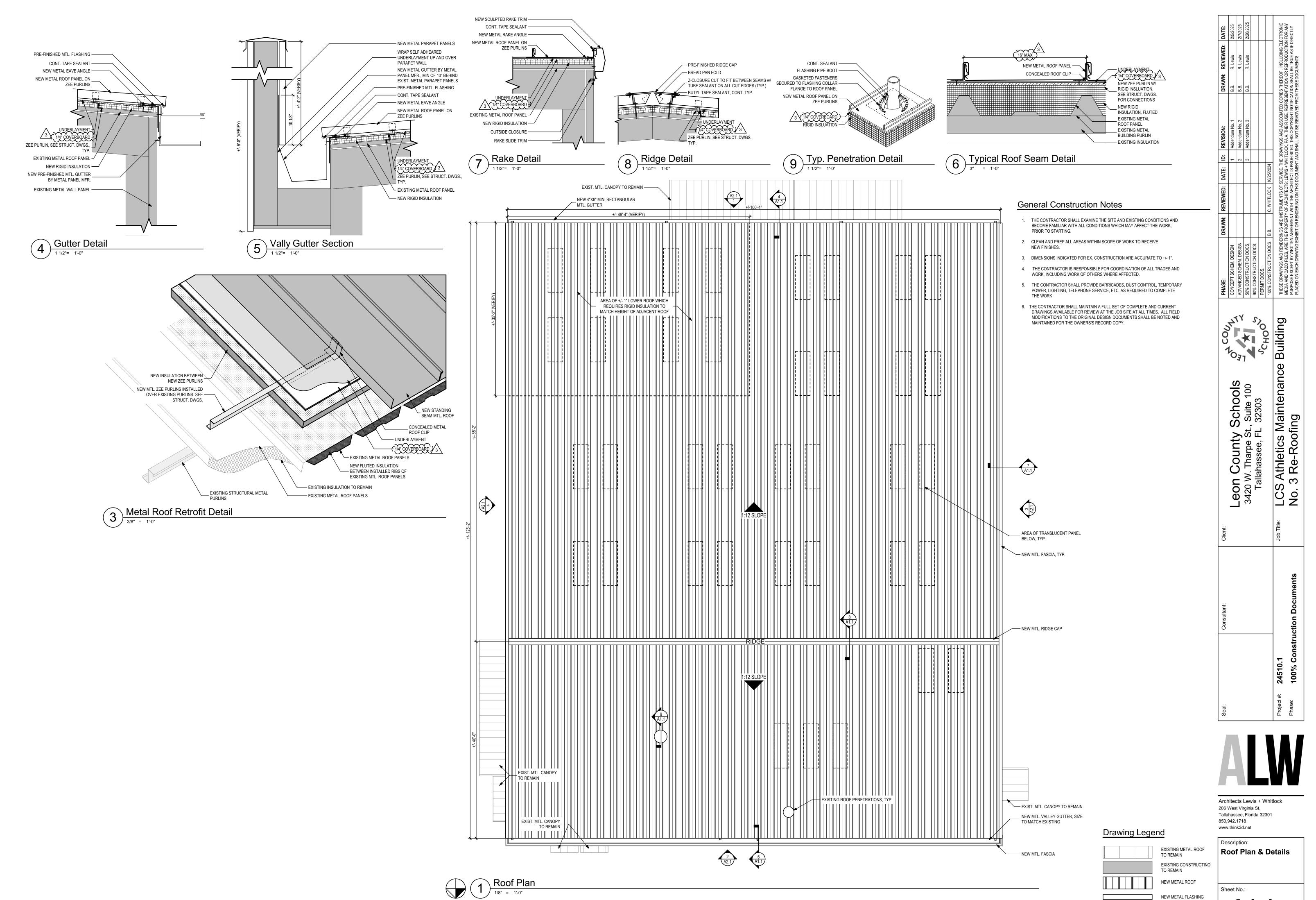
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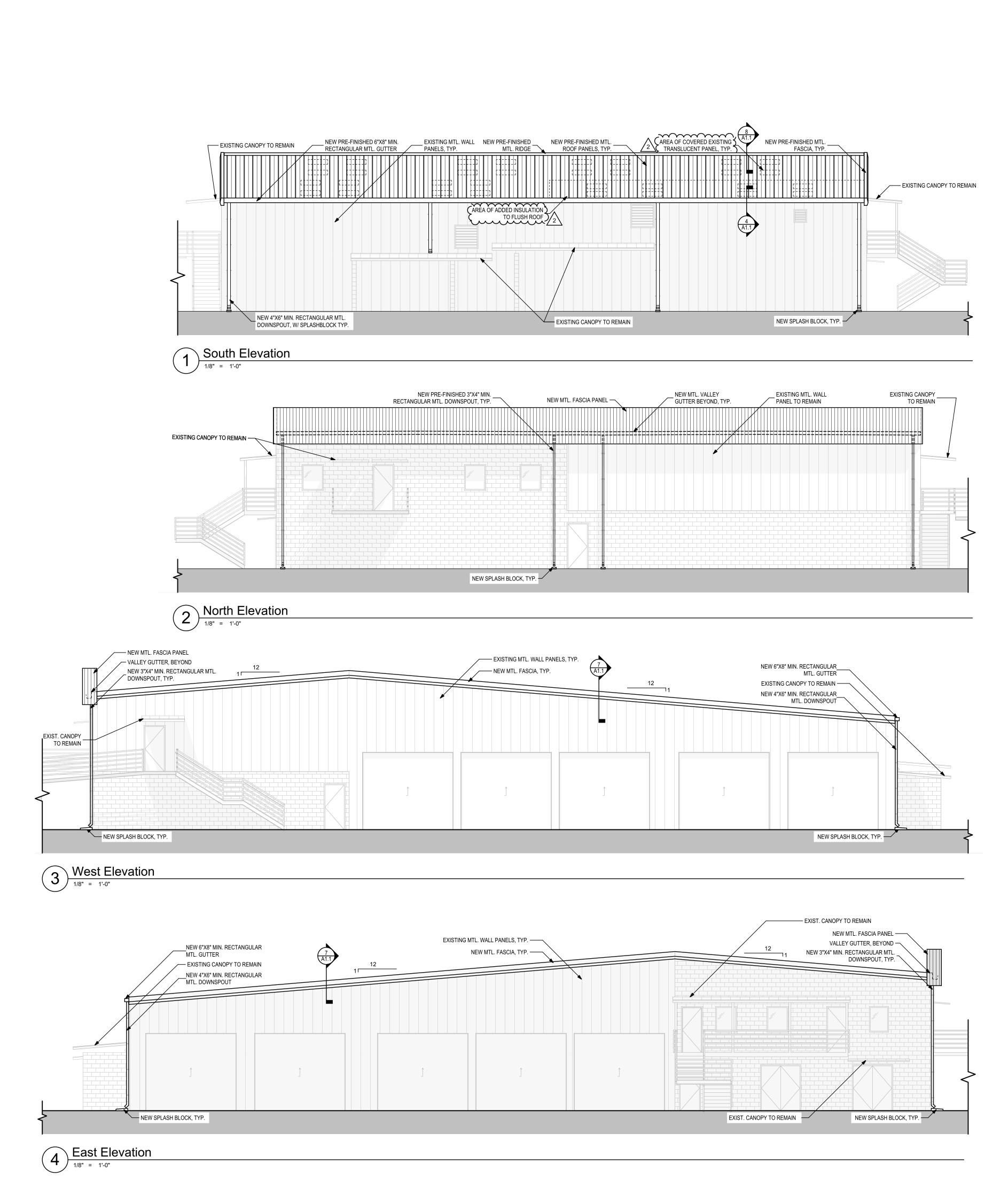


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CONSTRUCTION BELOW

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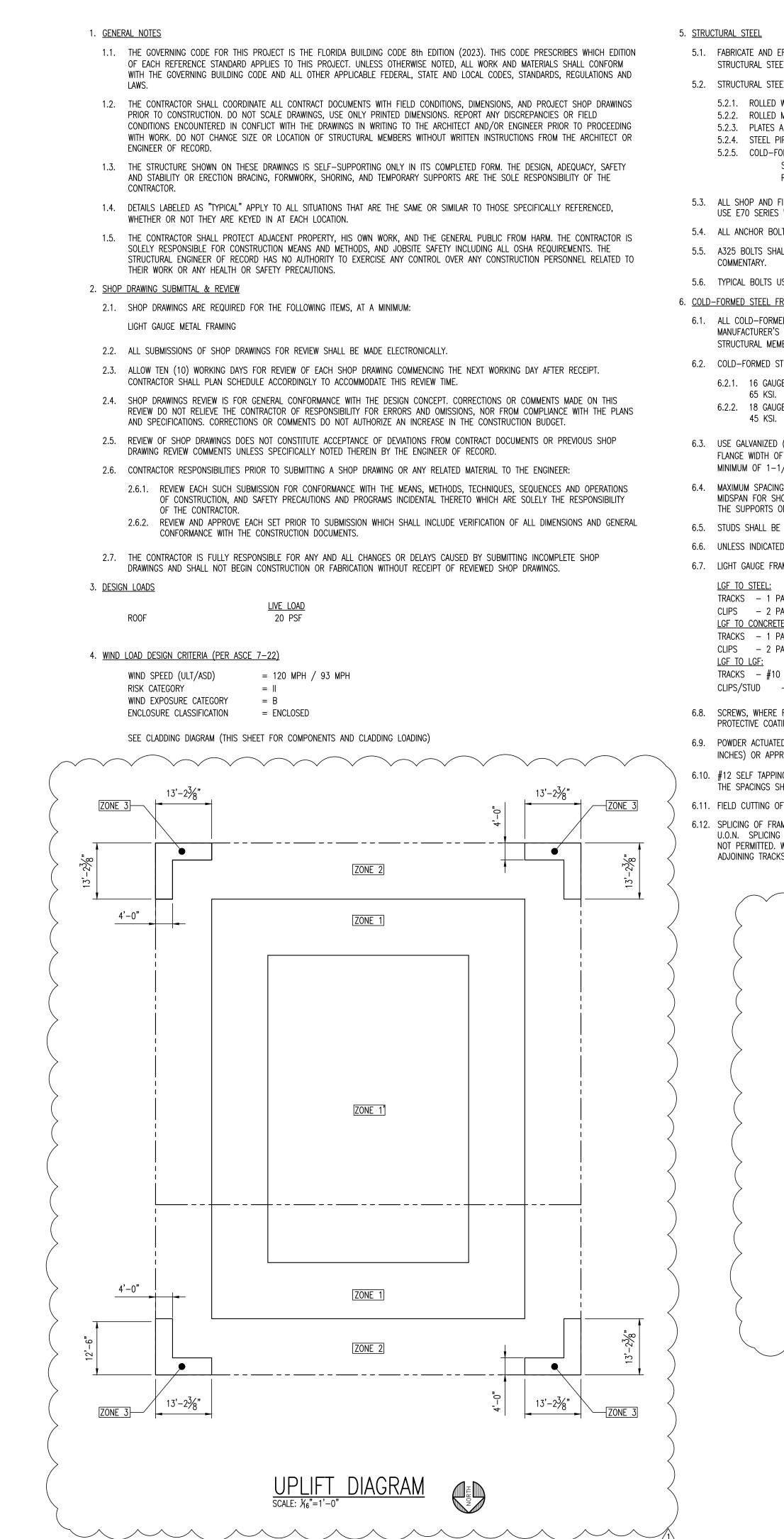
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			Loon County Schoole	CONCEPT SCHEM. DESIGN		-	Addendum No. 1	B.B.	R. Lewis	2/5/2025
				ADVANCED SCHEM. DESIGN		2	Addendum No. 2	B.B.	R. Lewis	2/7/2025
			3420 W. Tharpe St., Suite 100	50% CONSTRUCTION DOCS.						
				90% CONSTRUCTION DOCS.						
				PERMIT DOCS.						
				100% CONSTRUCTION DOCS.	B.B. C. WHITLOCK 10/25/2024	10/25/2024				
Project #: 24510.1		Job Title:	LCS Athletics Maintenance Building	THESE DRAWINGS AND RENDERINGS ARE INSTRUMENTS OF SERVICE. THE DRAWINGS AND ASSOCIATED COPIES THEREOF, INCLUDING ELECTRONIC MEDIA AND CADD ET LE DEORDEDTY OF ADOUTTECTE. LEMIS 4 MULTI OCK DA A THEID VEE DEDECENTATION OF DEDEORD ICTION COD ANY	RINGS ARE INSTRUMENTS OF	: SERVICE. THE DR	AWINGS AND ASSOCIATED	COPIES THEREOF		
Phase: 100% Constru	100% Construction Documents		No. 3 Re-Roofing	PLACED ON EACH DRAWING EXHIBIT OR RENDERING ON THIS DOCUMENT AND VALUED ON EACH DRAWING WRITTEN AGREEMENT WITH THE ARCHITECT IS PROHIBITED. THIS COPYRIGHT NOTIFICATION SHALL BE TRUE AS IF DIRECTLY PLACED ON EACH DRAWING EXHIBIT OR RENDERING ON THIS DOCUMENT AND SHALL NOT BE REMOVED FROM THESE DOCUMENTS	AGREEMENT WITH THE ARCHIECU HIBIT OR RENDERING ON THE	HITECT IS PROHIB	UCK, FA.A. THEIK USE, KER TTED. THIS COPYRIGHT NOT SHALL NOT BE REMOVED I	IFICATION SHALL ROM THESE DOC	BE TRUE AS IF DI UMENTS	



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Description: Exterior Elevations

Sheet No.: **A2.1**



5.1. FABRICATE AND ERECT STRUCTURAL STEEL IN CONFORMANCE, W/ AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", WITH COMMENTARY, AND ALL OSHA REQUIREMENTS.

5.2. STRUCTURAL STEEL SHAPES SHALL BE FABRICATED FROM THE FOLLOWING MATERIALS:

- 5.2.1. ROLLED W AND WT SHAPES: ASTM A992, GRADE 50. 5.2.2. ROLLED M, S, C AND MC SHAPES AND ANGLES: ASTM A36, Fy=36 KSI.
- 5.2.3. PLATES AND BARS: ASTM A36, Fy=36 KSI.
- 5.2.4. STEEL PIPE: ASTM A53, GRADE B, Fy=35 KSI.
- 5.2.5. COLD-FORMED HOLLOW STRUCTURAL SECTIONS (HSS): SQUARE AND RECTANGULAR SECTIONS: ASTM A500, GRADE C, Fy=50 KSI. ROUND SECTIONS: ASTM A500, GRADE C, Fy=46 KSI.

5.3. ALL SHOP AND FIELD WELDING SHALL CONFORM TO THE AWS D1.1 STRUCTURAL WELDING CODE BY THE AMERICAN WELDING SOCIETY. USE E70 SERIES WELDING ELECTRODES, U.O.N. WHERE NECESSARY, REMOVE GALVANIZING OR PRIMER PRIOR TO WELDING.

5.4. ALL ANCHOR BOLTS SHALL BE ASTM F1554-36, U.N.O. 5.5. A325 BOLTS SHALL COMPLY WITH "SPECIFICATION FOR STRUCTURAL JOINTS USING: ASTM A325 OR A490 BOLTS", INCLUDING

5.6. TYPICAL BOLTS USED IN STRUCTURAL CONNECTIONS FOR THIS PROJECT ARE 3/4 INCH DIAMETER, U.O.N.

6. <u>COLD-FORMED STEEL FRAMING</u>

6.1. ALL COLD-FORMED STEEL FRAMING SHALL CONFORM TO ASTM A1003 AND BE FABRICATED AND ERECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND WITH THE LATEST EDITION OF "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" BY THE AMERICAN IRON AND STEEL INSTITUTE (AISI).

6.2. COLD-FORMED STEEL FRAMING SHOWN SHALL HAVE THE FOLLOWING MINIMUM MATERIAL PROPERTIES:

6.2.1. 16 GAUGE (54 MIL) AND THICKER SHALL HAVE A MINIMUM YIELD STRESS OF Fy = 50 KSI AND A TENSILE STRENGTH OF Fu = 65 KSI. 6.2.2. 18 GAUGE (43 MIL) AND THINNER SHALL HAVE A MINIMUM YIELD STRESS OF Fy = 33 KSI AND A TENSILE STRENGTH OF Fu =

6.3. USE GALVANIZED (G60) STEEL "C" STUDS, TRACKS, ANGLES AND STRAPS AS SHOWN ON DRAWINGS. ALL STUDS SHALL HAVE A MINIMUM FLANGE WIDTH OF 1-5/8 INCH WITH A 1/2 INCH RETURN LIP. TRACKS SHALL BE A MINIMUM OF THE SAME GAUGE AS STUDS WITH MINIMUM OF 1-1/4 INCH LEG.

6.4. MAXIMUM SPACING OF LATERAL BRIDGING FOR COLD-FORMED STEEL STUDS SHALL BE 4 FEET FOR SPANS GREATER THAN 10 FEET AND MIDSPAN FOR SHORTER SPANS. LATERAL BRIDGING SHALL ALSO BE PROVIDED AT FREE ENDS OF CANTILEVERED PARAPETS AND NEAR THE SUPPORTS OF CONTINUOUS SPANS.

6.5. STUDS SHALL BE FREE OF KINKS AND TWISTS AND SHALL BE SECURELY SEATED FOR FULL END BEARING ON TOP AND BOTTOM TRACK. 6.6. UNLESS INDICATED OTHERWISE, PROVIDE DOUBLE STUDS AT ALL JAMBS, CORNERS AND INTERSECTIONS.

6.7. LIGHT GAUGE FRAMING (LGF) SHALL BE CONNECTED, AT A MINIMUM, AS FOLLOWS:

<u>LGF TO STEEL:</u> TRACKS – 1 PAF @ 12" O.C. STAGGERED CLIPS – 2 PAF LGF TO CONCRETE: TRACKS – 1 PAF @ 12" O.C. STAGGERED CLIPS – 2 PAF TRACKS – #10 TO EACH FLANGE

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CLIPS/STUD - 4 #10

6.8. SCREWS, WHERE REQUIRED, SHALL MEET THE MINIMUM REQUIREMENTS OF SAE J-429 GRADE 5 AND IFI-105. SCREWS SHALL HAVE A PROTECTIVE COATING EQUIVALENT TO CADMIUM OR ZINC PLATING, ASTM B766.

6.9. POWDER ACTUATED FASTENERS (PAF) SHALL BE HILTI X-U KNURLED SHANK FASTENERS (WITH A MINIMUM SHANK DIAMETER OF 0.157 INCHES) OR APPROVED EQUAL. A MINIMUM EMBEDMENT OF 1 INCH SHALL BE PROVIDED FOR ALL CONCRETE CONNECTIONS.

6.10. #12 SELF TAPPING SCREWS MAY BE USED IN LIEU OF THE SPECIFIED PAF FOR CONNECTIONS OF LIGHT GAUGE FRAMING TO STEEL AT THE SPACINGS SHOWN ABOVE FOR PAF IF THE THICKNESS OF THE STRUCTURAL STEEL ALLOWS FOR PROPER INSTALLATION.

6.11. FIELD CUTTING OF LIGHT GAUGE FRAMING MEMBERS SHALL BE BY SAW OR SHEAR. TORCH CUTTING IS NOT PERMITTED. 6.12. SPLICING OF FRAMING COMPONENTS, OTHER THAN THE CONTINUOUS TRACK AT THE TOP AND BOTTOM OF WALLS, IS NOT PERMITTED. U.O.N. SPLICING OF TRACK USED IN THE CONSTRUCTION OF THE JAMB, HEAD OR SILL ASSEMBLIES OF FRAMED WALL OPENINGS IS

NOT PERMITTED. WHERE SPLICING OF TRACK IS NECESSARY BETWEEN STUD SPACINGS, A SECTION OF STUD SHALL BE PLACED IN THE ADJOINING TRACKS ACROSS THE JOINT AND FASTENED TO THE FLANGES AT BOTH SIDES OF THE WALL.

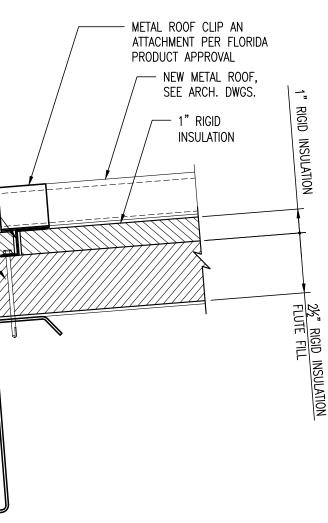
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COMPONENT &	CLADDING LOAD	OS – ROOF
TRIB AREA	PRES	SURE
ZONE (1')	ROOF -	INTERIOR
10 SQ. FT.	16.0	-23.7
20 SQ. FT.	16.0	-23.7
50 SQ. FT.	16.0	-23.7
100 SQ. FT.	16.0	-23.7
ZONE (1)	ROOF -	INTERIOR
10 SQ. FT.	16.0	-41.2
20 SQ. FT.	16.0	-38.5
50 SQ. FT.	16.0	-34.9
100 SQ. FT.	16.0	-32.2
ZONE (2)	ROOF - EX	TERIOR EDGE
10 SQ. FT.	16.0	-54.4
20 SQ. FT.	16.0	-50.9
50 SQ. FT.	16.0	-46.3
100 SQ. FT.	16.0	-42.8
ZONE (3)	ROOF - EXTE	RIOR CORNER
10 SQ. FT.	16.0	-74.1
20 SQ. FT.	16.0	-67.1
50 SQ. FT.	16.0	-57.9
100 SQ. FT.	16.0	-50.9

1"x16 GAUGE ZEE, ALIGN — ABOVE EXISTING PURLIN #10 SELF TAPPING SCREWS -@ 8"o.c. EXISTING METAL ROOF, TO REMAIN

EXISTING ROOF ZEE PURLIN, FIELD VERIFY LOCATION

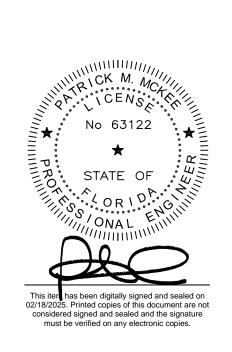




(FIELD LOCATE PURLINS, 5'-0" O.C. MAX)



Seal:	Consultant:	Client:	PHASE:	μï	DRAWN:	DRAWN: REVIEWED: DATE: ID:	DATE: II): REVISION:	DRAWN:	DRAWN: REVIEWED: DATE:	DATE:
		-	CONCEI	CONCEPT SCHEM. DESIGN	PMM	PMM	10/23/24	02/19/2025			
			ADVANC	ADVANCED SCHEM. DESIGN							
			50% CO	50% CONSTRUCTION DOCS.							
		I allanassee, Florida	90% CO	90% CONSTRUCTION DOCS.							
			PERMIT DOCS.	T DOCS.							
			100% C(100% CONSTRUCTION DOCS.							
Project #:	24510.1	Job Title: LCS Athletics Maintenance Building		THESE DRAWINGS AND RENDER	INGS ARE INS	TRUMENTS OF 5	ERVICE. THE	RENDERINGS ARE INSTRUMENTS OF SERVICE. THE DRAWINGS AND ASSOCIATED COPIES THEREOF, INCLUDING ELECTRONIC	D COPIES THEREO	, INCLUDING ELEC	CTRONIC
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