FEBRUARY 29, 2024

OWNER: O'FALLON PARKS & RECREATION 308 EAST 5TH STREET O'FALLON, ILLINOIS 62269

ARCHITECT: FGM ARCHITECTS INC. 475 REGENCY PARK, SUITE 325 O'FALLON, ILLINOIS 62269 CONSTRUCTION MANAGER: HOLLAND CONSTRUTION SERVICES 4495 N. ILLINOIS STREET SWANSEA, ILLINOIS 62226

TO: PROSPECTIVE BIDDERS

SUBJECT: O'FALLON COMMUNITY PARK ENHANCEMENTS NEW POOL AND AMPHITHEATER (PHASE 1) 411 EAST 5TH STREET O'FALLON, IL 62269

FGM Project No.: 23-3773.01

This Addendum forms a part of the Bidding and Contract Documents and modifies the original bidding documents dated February 14, 2024, and project Addendum #1 documents dated February 26, 2024. Acknowledge receipt of this Addendum in space provided on Bid Form. **Failure to acknowledge addenda may subject bidders to disgualification**.

GENERAL

- 1. Due to a received Review Comment by the State of IL, Department of Public Health (IDPH), Division of Environmental Health Swimming Facilities Program, who will perform a State Permit Review of the Swimming Facilities, the Plan South Doors and Egress out of the main Men's and Women's Locker/Toilet Areas (B103 & B133 spaces) is being omitted as part of this Addendum. There will remain only one egress exit out of these spaces. The footprint geometry of Building B is unaffected, however there are slight wall and door revisions resulting. Likewise, Room B135 and Door B135.1 and any prior reference to are eliminated in full from the project. Room B105 remains, modifies in size (essentially the full space of previously B135 and B105 rooms) is relabeled as "Pool Storage B105" and Door B105.1 modifies from a single door to a Double Door with revisions to its hardware type. Revisions to this area are most notable in included ARCH Sheet Revisions shown on A1.1 and A1.2 and resulting additional Revised ARCH Sheets are included in this Addendum for clarification.
- 2. There is to not be any use of a base sheet or vapor barrier under the project EPDM Membrane Roofing in any use or building area. That product listing in the 07 53 23 EPDM SINGLE PLY MEMBRANE ROOFING Specification is being removed/deleted formally as part of this Addendum.
- 3. In the Construction Document Sheet G0.1 Index of Drawings, one sheet listed was in error and should be deleted (C4.2) and one sheet listing was omitted in the Index ONLY (PDF set of Drawings did include) and is ADDED by this Addendum (S05.1), further full clarification is listed under Drawings descriptions in this Addendum written descriptions.
- 4. Clarifications are included in this Addendum on the operable, single-hung type window units shown in two project Storefront types and to be installed.
- 5. The remaining replies to Bidding RFI/RFCs received prior to deadline cut-off are included as attachments to this Addenda.

MANUAL

Volume 1

- 1. Section TOC
 - A. Division 26, ADD the following:
 26 09 50
 Sound Reinforcement
 26 09 50-1 7"

- 2. <u>SECTION 01 10 00 PROJECT SUMMARY BID PACKAGES SCHEDULE</u>
 - A. 01 10 00, Bid Package No. 04 Masonry, **REPLACE in its ENTIRETY** with **NEW** Bid Package No. 04 Masonry, attached to this Addenda (3 sheets total).
 - B. 01 10 00, Bid Package No. 7.2 Sheet Metal and Aluminum Siding, REPLACE in its ENTIRETY with NEW Bid Package No. 7.2 – Sheet Metal and Aluminum Siding, attached to this Addenda (2 sheets total).
 - C. 01 10 00, Bid Package No. 9.1 Metal Studs/ Drywall/ Acoustical Ceilings, REPLACE in its ENTIRETY with NEW Bid Package No. 9.1 Metal Studs/ Drywall/ Acoustical Ceilings, attached to this Addenda (4 sheets total).

Volume 2

- 3. <u>SECTION 07 53 23 EPDM SINGLE PLY MEMBRANE ROOFING (Section not Re-Issued)</u>
 - A. 07 53 23-6, DELETE in its ENTIRITY Article 2.3 BASE SHEET & FASTENERS and Paragraphs, 2.3, A and B. There is not to be a base sheet or vapor barrier under the project EPDM Membrane Roofing in any use area.
- 4. SECTION 08 41 13 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
 - A. 08 41 13-7, Article 2.3, Paragraph A, ADD:
 "8. Operable Window Insert: Where Operable Window Inserts shown, Product shall be consistent with Basis-of-Design Manufacturer Kawneer, product type 8430 Single Hung Thermal Window. Product unit to be 4" Deep and should be made to accommodate 1" insulated glazing. Product will install inside of the storefront 451T framing system."
- 5. <u>SECTION 08 71 00 DOOR HARDWARE</u>
 - A. 08 71 00-26, **ELIMINATE in its ENTIRITEY** Hardware Group No. 01.03 Door B135.1 is eliminated from the project in this Addendum.
 - B. 08 71 00-30, REVISE Hardware Group No. 01.06 to READ "For use on Door #(s) : B100.1, B130.1". Door B105.1 is ELIMINATED/REMOVED from this Hardware Group.
 - C. 08 71 00-39, **REVISE** Hardware Group No. 03.03 to **READ/ADD** "For use on Door #(s) : <u>B105.1</u>, C154.1.

Volume 3

- 6. <u>SECTION 26 07 21 FIRE ALARM SYSTEM ADDRESSABLE</u>
- A. FULL Section RE-ISSUED as part of this Addendum.
- 7. <u>SECTION 26 09 50 SOUND REINFORCEMENT</u>
 - A. **NEW Section ISSUED** as part of this Addendum.

DRAWINGS

Architectural

- 1. <u>SHEET G0.1 Architectural Symbols, Abbreviations & General Notes (Sheet not Reissued)</u>
 - A. Index of Drawings, **OMIT and REMOVE** under CIVIL, <u>**C4.2** "Storm Sewer Profiles"</u>. This Sheet listing was in error and does not exist in the Construction Document Drawing Set.
 - B. Index of Drawings, **ADD** to STRUCTURAL, <u>**S05.1**</u> "Strap Bracing Details"</u>. This Sheet was omitted from the Index and is in fact included in the Construction Document Drawing Set.
- 2. SHEET G1.1 Code Compliance Plan (Sheet Reissued)
 - A. 1 Code Compliance Plan, **REVISE** Building B paths of travel and door calculations for doors B130.1 and B100.1 **as SHOWN** in attached Drawing. Revisions resulting from elimination of South Egress Exit and Doors out of Rooms B133 and B103 Locker Room areas as described in Clarification #1.
- 3. <u>SHEET A1.1 Annotation Floor Plan (Sheet Reissued)</u>
 - A. 1 Annotation Floor Plan, REVISE "SF-1" Tag designation (adjacent Entry A100 and SF100.1) to READ "<u>CW-1</u>".
 - B. 1 Annotation Floor Plan, REVISE Room area B105 and relabel as "<u>Pool Storage</u>" and REVISE Door B105.1 to be a Double Door as SHOWN in attached Drawing. Additionally, DELETE in its ENTIRITEY Room B135 and Door B135.1 as SHOWN.
- 4. <u>SHEET A1.2 Dimension Floor Plan (Sheet Reissued)</u>
 - A. 1 Dimension Floor Plan, **REVISIONS as SHOWN** to Room area B105 as described in Clarifiation #1, and **REVISE as SHOWN** dimension string Plan South of Building B.
- 5. <u>SHEET A1.4 Reflected Ceiling Plan (Sheet Reissued)</u>
 - A. 1 Reflected Ceiling Plan, REVISE Alcove Ceiling Tag Alcove off Passage A116 where Drinking Fountain is recessed and located – to READ, "GYP/ PT-6 / <u>8'-3"+/-</u>".
 - B. 1 Reflected Ceiling Plan, **REVISIONS as SHOWN** to Room area B105 as described in Clarification #1.

- C. 1 Reflected Ceiling Plan, ADDED clarification Ceiling Detail Tags "<u>5/A6.3 Sim.</u>" In three (3) locations at Building B as SHOWN. Only to clarify construction intent at these areas, not added ceiling or work.
- 6. <u>SHEET A1.6 Finish Plan (Sheet Reissued)</u>
 - A. 1 Overall Finish Plan, **REVISE** Room area B105 as SHOWN in attached Drawing as described in Clarifiation #1.
 - B. 1 Overall Finish Plan, CLARIFED Keyed Note "F3" leaders at West side of Front Open Office A104.
 - C. Finish Plan Keyed Notes, **REVISE** "F3" Keyed Note Description **to READ as SHOWN** in attached Drawing. Clarification that F3 relates to CG-1 Corner Guards and Size revision/clarification.
 - D. Finish Materials, CG-1 Corner Guard, **REVISE** "Size:" note to **READ as SHOWN** in attached Drawing. Size of CG-1 revises.
 - E. Finish Materials, ARP-1 Acrylic Resin Panel (Plastic Fabrications), **REVISE** "Install Type:" note **to READ as SHOWN.** Basis-of-Design Manuf. to remain but another product collection mounting would be an acceptable substitute if thought better for the application as shown. Panel corner clarification also noted.
- 7. <u>SHEET A2.0 Exterior Elevations (Sheet Reissued)</u>
 - A. 8 Exterior Elevation, **REVISED to DELETE** two (2) thru-wall louvers and Keyed note "L5", Door Change to B105.1 door **as SHOWN** in attached Drawing.
- 8. <u>SHEET A3.0 Building Sections (Sheet NOT Reissued)</u>
 - A. Detail 12 Building Section, Wall area in Section Callout 4/A3.6, DELETE wall louver in wall.
- 9. <u>SHEET A3.6 Wall Sections (Sheet Reissued)</u>
 - A. Detail 4 Wall Section, **REVISE as SHOWN** in attached Drawing. Thru-Wall louver is **DELETED** and wall section cut now through new Door B105.1 which is shown.
- 10. SHEET A3.9 Arch Site Details & Bather County Plans (Sheet Reissued)
 - A. Detail 2, **REVISE** sheathing product at rear (roof) side of parapet to Plywood **as SHOWN** in Attached Drawing and **REVISE** "Fiberglass-Faced Gypsum Sheathing" to **READ** "<u>Plywood Sheathing</u>".
 - B. Detail 4, **REVISE** sheathing product at rear (roof) side of parapet to Plywood **as SHOWN** in Attached Drawing and **ADD** note to **READ** "Plywood Sheathing".
 - C. Detail 5, **REVISE** sheathing product at rear (roof) side of parapet to Plywood as SHOWN in Attached Drawing and REVISE "Fiberglass-Faced Gypsum Sheathing" to READ "Plywood Sheathing".
 - D. Detail 7, **REVISE** sheathing product at rear (roof) side of parapet to Plywood as SHOWN in Attached Drawing and ADD note to READ "Plywood Sheathing".
 - E. Detail 8, **REVISE** sheathing product at rear (roof) side of parapet to Plywood **as SHOWN** in Attached Drawing and **REVISE** "Fiberglass-Faced Gypsum Sheathing" to **READ** "<u>Plywood Sheathing</u>".
 - F. Detail 11, REVISE sheathing product at rear (roof) side of parapet to Plywood as SHOWN in Attached Drawing and REVISE "Fiberglass-Faced Gypsum Sheathing" to READ "<u>Plywood</u> <u>Sheathing</u>".
 - G. Detail 14, **REVISE** sheathing product at rear (roof) side of parapet to Plywood **as SHOWN** in Attached Drawing and **REVISE** "Fiberglass-Faced Gypsum Sheathing" to **READ** "<u>Plywood</u> <u>Sheathing</u>".
- 11. SHEET A4.1 Enlarged Plan Area 'B' & 'C' (Sheet Reissued)
 - A. 1 Enlarged Plan Area 'B', **REVISE** Room area B105 and Door B105.1 **as SHOWN** and as described in Clarification #1.
- 12.<u>SHEET A4.2 Enlarged Plan Area 'B' & 'C' Floor Drain Slope Plans (Sheet Reissued)</u>
 - A. 1 Enlarged Plan Area 'B', **REVISE** Room area B105 and Door B105.1 **as SHOWN** and as described in Clarification #1. Floor drains remain as previous, new slope accounted for with removal/deletion of room separating partition.
- 13. <u>SHEET A4.5 Enlarged Plans and Interior Elevations (Sheet Reissued)</u>
 - A. 1 Enlarged Floor Plan, **ADDED** interior elevation tag as shown indicating **NEW** Interior elevations 22, 23 and 24 on Sheet A4.5.
- B. ADDED NEW Interior Elevation Details 22, 23 and 24 as SHOWN in attached Drawing.
- 14.<u>SHEET A4.7 Enlarged Plans and Interior Elevations (Sheet Reissued)</u>
 - A. 1 Floor Plan, **REVISES** Room area B105 and Door B105.1 **as SHOWN** in attached Drawing and as described in Clarification #1. **DELETE** Elevation tag 10/A4.7 **as SHOWN**.
 - B. **DELETE** from Project Detail 10 Int. Elevation. No longer used or required.
 - C. 19 Int. Elev., REVISE as SHOWN to coordinate to new Room area B105 condition. Masonry opening is DELETED and elevation view extended to show full room. Accent EPT-3 now REVISED to READ "EPT-1".

15.<u>SHEET A5.2 – Storefront Types (Sheet Reissued)</u>

- A. SF-1, **REVISED** To **NEW TITLE** "<u>CW-1</u>", Additionally, Dimensions (mullion size only, NOT overall opening dimensions) REVISED as SHOWN in attached Drawing. This system should represent as a Curtainwall framing system with a standard mullion size of 2.5" x 6" (depth) mullion per related Specification Section.
- B. SF-9 and SF-10, **REVISED** to clarify operable window type unit and **ADD Note** regarding the product type for these Operable window unit inserts, **as SHOWN** in the attached Drawing.
- C. SF-12 and SF-13, ADD Note clarifying window film locations, as SHOWN in attached Drawing.

Structural

- 16.<u>SHEET SO.1 General Notes (Sheet Reissued)</u>
 - A. **REVISE** plan Note 2. of <u>FOUNDATIONS</u>: Change allowable soil bearing pressure from 1500 psf to "<u>2250 psf</u>".
- 17.<u>SHEET S1.0 Foundation Plan Area A-D (Sheet Reissued)</u>
 - A. **REVISE** plan note 5 of **FOUNDATION PLAN AREA A**: Change allowable soil bearing pressure from 1500 psf to "<u>2250 psf</u>".
- 18.<u>SHEET S1.1 Foundation Plan Area B-C (Sheet Reissued)</u>
 - A. REVISE plan Note 5 of <u>FOUNDATION PLAN AREA B</u>: Change allowable soil bearing pressure from 1500 psf to "<u>2250 psf</u>".
 - B. REVISE plan Note 5 of FOUNDATION PLAN AREA C: Change allowable soil bearing pressure from 1500 psf to "2250 psf".
 - C. ADD dimension string <u>27'-4"</u> on East side of building.
 - D. ADD dimension string 7'-41/4" on South side of building.
 - E. ADD wall footing dimension callout along South wall to WF24-12/TF-98'-0".
 - F. ADD Top of Concrete callout along East wall of the connector link building.
 - G. **REMOVE** Masonry opening between Rm. B134 and Rm. B135.
 - H. **REMOVE** Masonry opening between Rm. B104 and Rm. B105.
 - I. **REMOVE** Door opening @ Door B135.1 and Door B105.1.
 - J. **REMOVE** Masonry wall and Footing between Rm. B135 and Rm. B105.
 - K. ADD Door opening for new 6'-0" door in South wall of Bldg. B.
- 19. SHEET S1.3 Roof Framing Area A-D (Sheet Reissued)
 - A. REVISE overhang dimension of the open canopy along Grid Line A.5 from 3'-0 5/8" to READ <u>3'-1¾"</u> and 5'-0" to READ <u>5'-0 ¼"</u>.
- 20.<u>SHEET S1.4 Roof Framing Area B-C (Sheet Reissued)</u>
 - A. **REVISE** dimension of C10x15.3 of the open canopy along at North wall from 3'-10" to **READ** <u>3'-8"</u> and 5 5/8" to **READ** <u>7 5/8"</u>.
 - B. ADD Section Cut 7-S4.1 @ LOW/SIM along the South wall at the low roof area.
 - C. **REMOVE** Masonry opening and Masonry lintel between Rm. B134 and Rm. B135.
 - D. **REMOVE** Masonry opening and Masonry lintel between Rm. B104 and Rm. B105.
 - E. **REMOVE** Door opening masonry lintel @ Door B135 and Door B105.
 - F. **REMOVE** Masonry lintel for louver above Door B135 and Door B105.
 - G. **REMOVE** Masonry wall between Rm. B135 and Rm. B105.
 - H. ADD NEW Masonry lintel '<u>L2b</u>' above new door opening for new 6'-0" door in South Wall of Bldg. B.
 - I. **ADD NEW** Steel Beam <u>W8x18</u> and bearing plates at each end of beam above removed wall between Rm. B135 and Rm. B105.
- 21.<u>SHEET S2.0 Foundation Details and Sections (Sheet Reissued)</u>
 - A. **REVISE** Detail **2-S2.0 ADD** dimension <u>8</u>" from outside edge of Foundation to outside face of CMU Bond Beam.
 - B. REVISE Detail 2-S2.0 ADD an additional bond beam elevation <u>EL=116'-0"</u>
- 22. SHEET S4.0 Roof Framing Details and Sections (Sheet Reissued)
 - A. REVISE Detail 7-S4.0 CHANGE Fillet weld dimension from 1" to SHOW/READ As a stitch weld 1"- 6".
 - B. **REVISE** Detail 8-S4.0 CHANGE Fillet weld dimension from 1" to SHOW/READ As a <u>stitch weld 1"- 6"</u>.
- 23. SHEET S4.1 Roof Framing Details and Sections (Sheet Reissued)
 - A. **REVISE** Detail **1-S4.1 CHANGE** overhang dimension from 3'-1 ¹/₂" to **READ** <u>3'-1³/₄"</u>.
 - B. **REVISE** Detail **2-S4.1 ADD** overhang dimension <u>2'-1½"</u>.
 - C. REVISE Detail 2-S4.1 CHANGE joist extension dimension from 3 ¹/₂" to READ <u>2"</u>.
 - D. REVISE Detail 12-S4.1 CHANGE C10 location to align with inside face of CMU wall.

Mechanical

24.<u>SHEET M0.2 – Mechanical Schedules (Sheet Reissued)</u>

- A. **REMOVED** louvers L3 and L4 from Louver Schedule.
- 25.<u>SHEET M1.1 Mechanical Floor Plan (Sheet Reissued)</u>
 - A. **REMOVED** louvers L3 and L4 from new Pool Storage B105.

Plumbing – No Revisions

Electrical

26. SHEET E0.3 - Electrical Site Plan (Sheet Reissued)

- A. **ADDED** electrical primary conduit run and associated keyed notes 11 and 12.
- B. **REVISED** keyed note 7 to clarify number of low voltage conduits.
- C. **REVISED** underground low voltage conduits for utility provider along East 5th St.
- D. ADDED underground primary conduit run outside footprint of existing pool building.
- E. **REVISED** route of underground low voltage conduit to future gym to avoid footprint of existing pool building.
- 27. SHEET EO.6 Electrical Panel Schedules (Sheet Reissued)

A. **REVISED** branch circuits to pool lighting from Panel B to Panel SP and updated panel schedules.

28.<u>SHEET E1.1 – Electrical Lighting Plan (Sheet Reissued)</u>

A. **REVISED** lighting in Pool Storage B105 to **DELETE** 1 occupancy sensor and 1 type Y Emergency light. 29.SHEET E2.1 – Electrical Power & Data Plan (Sheet Reissued)

- A. **REVISED** power in Pool Storage B105 to **DELETE** access control hardware circuit.
- 30. <u>SHEET 3.1 Electrical Fire Alarm & Security Plan (Sheet Reissued)</u>
 - A. **REVISED** keyed note to 6 at microphone in Manager's Office & First Aid A120.
 - B. ADDED microphone and keyed note 6 in Concession A117.
 - C. **ADDED** keyed note 6 to clarify microphones and connections to A/V rack.
 - D. **REMOVED** two (2) access control and one (1) fire alarm horn/strobe from Pool Storage B105.
- 31. SHEET E4.2 Electrical Equipment Enlarged Plan (Sheet Reissued)
 - A. **REVISED** branch circuits to pool lighting transformer from Panel B to Panel SP in Pool Mech./Equip. C154.

Respectfully,

Promon Hoth

Brennan Hartin, AIA, NCARB Senior Associate

This Addendum consists of 6 pages.

Attachments:	 Holland Construction Services Closed Bidding RFI Log (w/ Responses) Current through 02.29.2024 (8 pages) Specification 01 10 00 – Project Summary – Bid Packages – Schedule Replacement Pages as noted and with "Revised by Addendum #2" in Footer (9 total replacement pages) Specification Section 26 07 21 Fire Alarm System – Addressable Full Section Reissued Specification Section 26 09 50 Sound Reinforcement NEW Specification Section Issued
Drawings:	Architectural (Full Size Sheets – 30"x42") G1.1 A1.1 A1.2 A1.4 A1.6 A2.0

A3.6 A3.9 A4.1 A4.2 A4.5 A4.7 A5.2 Structural (Full Size Sheets - 30"x42") SO.1 S1.0 S1.1 S1.3 S1.4 S2.0 S4.0 S4.1 Mechanical (Full Size Sheets - 30"x42") M0.2 M1.1 Electrical (Full Size Sheets - 30"x42") E0.3 E0.6 E1.1 E2.1 E3.1 E4.2

Substitution Request:

Sub #001 – Ace Sign Co. Approved by FGMA on 02.27.2024 Sub #002 – B.P. Brilliant Stone Rejected by FGMA on 02.29.2024



Holland Construction Services	HOLLAND BUILT ON INTEGRITY

Job #: 22-052.G0 OFallon IL City Pool

O'Fallon, Illinois 62269

RFI LOG

# Suk	Subject	Status Responsible Contractor	Received From	Assignee	Date Initiated	Manager	סמה סמוה	Closed Date		Impact	Code Impact
Bid-22 Owr	Owner Provided Electrical Gear Shop Drawings	Closed Holland Construct	Kennedy, Terry (Holland Construction Services)	Kennedy, Terry (H	02/28/2024	Terry Kennedy	03/06/2024	02/28/24			
ö	Terry Kennedy Sent Wed Feb 28, 2024 at 08:49 pm CST Holland Note: This Electrical Gear is on order. The Electrical contractor that is awarded the contract will take over the responsibility ABB Electrical Gear Pre-Order.pdf	3:49 pm CST er. The Electrical contractor	that is awarded the contract v	vill take over the		f said Gear. Ple	ase see the at	of said Gear. Please see the attached shop drawings for reference.	gs for reference.		
Α:	Terry Kennedy (Holland Construction Services) Responded Wed Feb 28, 2024 at 08:50 pm CST FOR RECORD: Electrical Gear Shop Drawings. ABB Electrical Gear Pre-Order.pdf	ces) Responded Wed Feb 28 gs.	2024 at 08:50 pm CST								
Bid-21 Met	Bid-21 Metal Stud Scope Clarification	Closed Holland Construct	Kennedy, Terry (Holland Construction Services)	Goette, Greg (Hol Willman, Laura (H	02/28/2024	Terry Kennedy	03/06/2024	02/29/24			
ö	Terry Kennedy Sent Wed Feb 28, 2024 at 07:59 am CST Our work package still has rigid board cavity insulation at metal stud walls per scope item 4. This is not included in our scope, right? Subframing and insulation per wall type W-4 is by aluminum siding work package and any insulation behind mason is by mason work package.	7:59 am CST ty insulation at metal stud w package.	alls per scope item 4. This is	not included in a	our scope, right?	Subframing a	nd insulation p	ver wall type W-4 is	oy aluminum siding	work package and	any
	If we are supposed to include this, please let me know where this occurs RE_ Ofallon Pool.msg	et me know where this occu	<u>s</u>								
	Terry Kennedy (Holland Construction Services) Responded Thu Feb 29, 2024 at 03:33 pm CST Holland Note: All scopes of work pertaining to this question have been revised.	ces) Responded Thu Feb 29, J to this question have been	2024 at 03:33 pm CST revised.								
A:	: Bid Scope #4 Masonry Bid Scope #7.2 Sheet Metal and Aluminum Siding Bid Scope #9.1 Metal Studs/Drywall and Acoustical Ceilings	ı Siding coustical Ceilings									
Bid-20 Elec	Bid-20 Electrical Clarifications	Closed Holland Construct	Kennedy, Terry (Holland Construction Services)	Matchett, Danny (Hartin, Brennan (02/28/2024	Terry Kennedy	03/06/2024	02/29/24			
	Terry Kennedy Sent Wed Feb 28, 2024 at 07:55 am CST We need clarification on the following:	7:55 am CST									
ö	 Sheet E0.3, Keyed Note #7 - Please clarify the number of conduits, size and location. Are these conduits to be caped Sheet E0.3, Keyed Note #5 - Please provide property line. Sheet E0.3, Keyed Note #10 - Please provide specification section 260950 Sheet E1.1 - Are the speakers shown apart of Bid Package # 26tk Sheet E3.1, "M" symbol in A120 	Please clarify the number of Please provide property line - Please provide specificatio s chown apart of Bid Package	conduits, size and location. <i>L</i> n section 260950 2 # 26tk	re these condui		and staked?					
		20									

A: FGMA Response: From our project team Electrical Engineer:

		Bid-17			Bid-18			Bid-19		#		
ö			Α:	ö		Α:	ö	Masonr		Subject		
 The specs call out a base sheet of Carilise 725TR MD vapor barrier? Buildings A,B and the connector t The entire building A high roofs and 	Terry Kennedy Sent Tue Feb 27, 2024 at 12:53 pm CST I just downloaded the plans and specs for this one and read something interesting in the specifications. Below are some RFI questi	Roofing Spec/Design Clarification	Terry Kennedy (Holland Construction Services) Responded Tue Feb 27, 2024 at 03:05 pm CST Holland Note: This is to be covered in the Flooring Contractors Scope.	Terry Kennedy Sent Tue Feb 27, 2024 at 12:58 pm CST Quick question, on Addendum #1 I noticed on Pg. 34 Line 16 it states "Provide flooring protection at all carpet tile areas, main walkways and bathrooms using ram board fully taping all joints and edges." Will this be an item that Holland provides or would we need to incorporate this in our bid? RE_RFI #1 O'Fallon Pool and Amphitheater.msg	Flooring Protection Scope of Work	Terry Kennedy (Holland Construction Services) Responded Thu Feb 29, 2024 at 11:42 am CST For Record Response. See Attached Email. Substitution was Denied. RE_ O'Fallon Pool AISC Certification RFC .msg	Terry Kennedy Sent Wed Feb 28, 2024 at 07:52 am CST Please submit the attached product substitution request for the project please. Building Products is a local supplier with a more co familiar with Building Products materials. Attached is a link to the same information attached in the scanned document. https://buildingproductscorp.com/wp-content/uploads/2020/05/Brilliant-Stone.pdf 20240227162536612.pdf OFallon Pool and Amphitheatre Masonry Material Substitution Request.msg	Bid-19 Masonry Substitution Request	 Sheet E0.3, Keyed Note # Storage C158, and 3-2"Ct Sheet E0.3, Keyed Note # 3. Sheet E0.3, Keyed Note # Sheet E1.1, speakers show Sheet E3.1, "M" symbol in 5. sheet E3.1, "M" symbol in 	#	חסוומות כסווציותירוסוו סבו אורבא	HOLLAND BUILT ON INTEGRITY.
The specs call out a base sheet of SureMB 90 fastened with dual prong fasteners. That product is only to be used over gypsum or lightweight concrete roof decks. Is there a different underlayment wanted? More like a Carllise 725TR MD vapor barrier? Buildings A,B and the connector to building C will not be allowed to have mechanical fasteners through the metal roof decking? The entire building A high roofs and lower roofs will all have exposed roof decking from below?	12:53 pm CST or this one and read something	Closed Holland Construct	rvices) Responded Tue Feb 27, e Flooring Contractors Scope.	12:58 pm CST ed on Pg.34 Line 16 it states "I an item that Holland provides i ter.msg	Closed Holland Construct	rvices) Responded Thu Feb 29, ail. Substitution was Denied. .msg	107:52 am CST ssitution request for the projec subtrached is a link to the sam intent/uploads/2020/05/Brilliar Material Substitution Request	Closed Holland Construct	Sheet E0.3, Keyed Note #7 has been clarified in Addendum #2 to be (6) 2" conduits from IT A123 to each of 4 locations (1-2" C to future gym building by keyed note 6, 1-2" C to Elec/Water B150, 1-2" C to Theater Storage C158, and 3-2"C to north property line at East 5 th Street per keyed note 5). Sheet E0.3, Keyed Note #5 property line is defined as along south edge of proposed sidewalk at Roadway Bid Package per C2.0. Sheet E0.3, Keyed Note #10 references specification section 260950 which has been included as part of Addendum #2. Sheet E1.1, speaked Note #10 references and shall be in the bid package determined by Holland Construction Services. Sheet E3.1, "IV" symbol in A120 is for a microphone and duplex XLR jack as indicated on E0.1 under "Auxiliary Systems" legend. Refer also to Specification Section 260950 included as part of Addendum #2. Second microphone location was added to Concessions A117 as part of Addendum #2.	Status Responsible Contractor		
ith dual prong fasteners. That, allowed to have mechanical fa we exposed roof decking from	interesting in the specificatio	Kennedy, Terry (Holland Construction Services)	2024 at 03:05 pm CST	Provide flooring protection at a or would we need to incorpora	Kennedy, Terry (Holland Construction Services)	, 2024 at 11:42 am CST	tt please. Building Products is re information attached in the int-Stone.pdf .msg	Kennedy, Terry (Holland Construction Services)	Jm #2 to be (6) 2" conduits fro ¹ Street per keyed note 5). In gouth edge of proposed sid south edge of proposed sid tion 260950 which has been in tion 260950 which has been in tion 260450 which has det shall be in the bid package det shall be in the bid package det duplex XLR jack as indicated o duplex XLR jack as indicated o Al17 as part of Addendum #2.	Received From		
product is only to steners through t below?	ns. Below are son	Matchett, Danny (Hartin, Brennan (all carpet tile area te this in our bid?	Willman, Laura (H Goette, Greg (Hol		a local supplier w scanned docume	Matchett, Danny (Hartin, Brennan (m IT A123 to eac lewalk at Roadwa icluded as part of rermined by Holla n EO.1 under "Au n EO.1 under "Au	Assignee		
be used over gy he metal roof de	ne RFI questions.	02/27/2024		as, main walkway	02/27/2024		n a more co	02/28/2024	h of 4 locations (ny Bid Package pe Addendum #2. nd Construction xiliary Systems"	Date Initiated		
psum or lig cking?		Terry Kennedy		's and bath	Terry Kennedy		effective pr	Terry Kennedy	ns (1-2" C to ft e per C2.0. ⊭2. ion Services. ns" legend. Re	RFI Manager		
Jhtweight concret		03/05/2024		rooms using ram	03/05/2024		oduct. Please let	03/06/2024	ıture gym building fer also to Specifi	r Due Date		
e roof decks. Is th		02/28/24		board fully	02/27/24		me know if you ne	02/29/24	y by keyed note 6, cation Section 260	Closed Date		
ere a different und							sst-effective product. Please let me know if you need further information. I am sure FGMA is		1-2"C to Elec/Wat 950 included as p	Ball In Court		Printed on T Job
erlayment wante							ation. I am sure F		er B150, 1-2" C t art of Addendum	Location Schedule Impact	0	Printed on Thu Feb 29, 2024 at 03:36 pm CST Job #: 22-052.G0 OFallon IL City Pool
3d? More lik							FGMA is		:o Theater #2. Note,		Fallon, Ill)24 at 03) OFallon
e a									۵	Cost Cost Code Impact	O'Fallon, Illinois 62269	1:36 pm C
										act	:69	ST Sol

				equest.	attached. CSI Substitution Re	: 09:04 am CST er be accepted? Please see the	Terry Kennedy Sent Mon Feb 26, 2024 at 09:04 am CST Q: Will the alternative Signage Manufacturer be accepted? Please see the attached. CSI Substitution Request. CSI Substitution Request Ace Sign.pdf	
02/28/24	03/04/2024	Terry Kennedy	02/26/2024	Matchett, Danny (Hartin, Brennan (Kennedy, Terry (Holland Construction Services)	Closed Holland Construct	Signage Request to Substitute	Bid-14
					, 2024 at 12:46 pm CST and adjusted.	rvices) Responded Mon Feb 26 to this RFI have been updatec	A: Terry Kennedy (Holland Construction Services) Responded Mon Feb 26, 2024 at 12:46 pm CST Holland Note: Scopes of work pertaining to this RFI have been updated and adjusted.	
					: confirm	hind masonry 5/A3.11. Please	Mason responsible for rigid insulation behind masonry 5/A3.11. Please confirm RE_ Ofallon Pool.msg	
					11	ick of parapet sheathing 5/A3.	Q: What work package is responsible for back of parapet sheathing 5/A3.11	
	12.	ackage item	also Drywall p	kage item 10 anc	icluded in General Trades pac	: 09:10 am CST etal stud wall layout? This is ir	Terry Kennedy Sent Mon Feb 26, 2024 at 09:10 am CST What work package is responsibly for metal stud wall layout? This is included in General Trades package item 10 and also Drywall package item 12.	
02/26/24	03/04/2024	Terry Kennedy	02/26/2024	Willman, Laura (H Goette, Greg (Hol Hartin, Brennan (Kennedy, Terry (Holland Construction Services)	Closed Holland Construct	Scope Clarifications - Metal Studs, Parapet Sheathing, Rigid Insulation	Bid-15
Terry Kennedy (Holland Construction Services) Responded Wed Feb 28, 2024 at 09:40 am CST Holland Note: This project will follow typical construction applications. Please plan on providing the correct flashings, expansion joints, and sealants that the roofing Trade Partner should typically supply in a roofing application. Holland does not plan on separating specifics on flashing. Please verify your scope and assume responsibility for those flashings you typically install.	alants that the roof stall.	ints, and sealants a typically install.	s, expansion jo se flashings you	e correct flashing onsibility for tho	, 2024 at 09:40 am CST s. Please plan on providing th your scope and assume resp	rvices) Responded Wed Feb 28 rpical construction application cifics on flashing. Please verify	Terry Kennedy (Holland Construction Services) Responded Wed Feb 28, 2024 at 09:40 am CST A: Holland Note: This project will follow typical construction applications. Please plan on providing the correct flashings, expansion joi Holland does not plan on separating specifics on flashing. Please verify your scope and assume responsibility for those flashings you	
					27.1- Membrane roofing. parate Bid Packages.	12:48 pm CST rrify completely on Bid Packagi Counter flashing. ye. ed in one Package. They are se ed in one Package. They are se	 Terry Kennedy Sent Tue Feb 27, 2024 at 12:48 pm CST The Addendum 1 Corrections doesn't clarify completely on Bid Package 7.1- Membrane roofing. Premanufactured Expansion joints and Counter flashing. That usually goes to Sheet metal Package. Roofing and sheet metal are not combined in one Package. They are separate Bid Packages. Re_O'Fallon Community Park Enhancements.msg 	
02/28/24	03/05/2024	Terry Kennedy	02/27/2024	Willman, Laura (H Goette, Greg (Hol	Kennedy, Terry (Holland Construction Services)	ng Closed Holland Construct	Addendum #1 Follow Up - Scopes of Work Roofing and Sheet Metal	Bid-16
Brennan Hartin (FGM Architects Engineers, Inc.) Responded Tue Feb 27, 2024 at 01:57 pm CST FGMA Response: The indication for any Base Sheet or Vapor Barrier that would be below our EDPM Roofing Membrane and its inclusion in the 07 53 23 Specification was in error. This product listing and Base Sheet Fasteners will be omitted in its entirety. There is no Base Sheet or Vapor Barrier under any of the project EDPM use areas. Clarification of such will be included in the next Addendum. Brennan Hartin - FGM Architects.	on was in error. Th ndum.	3 Specificati 1e next Adde	in the 07 53 2 e included in th	and its inclusion ion of such will b	, 2024 at 01:57 pm CST our EDPM Roofing Membrane act EDPM use areas. Clarifica	rrs, Inc.) Responded Tue Feb 2 or Barrier that would be below r Barrier under any of the projo	 Brennan Hartin (FGM Architects Engineers, Inc.) Responded Tue Feb 27, 2024 at 01:57 pm CST FGMA Response: A: The indication for any Base Sheet or Vapor Barrier that would be below our EDPM Roofing Membrane and its inclusion in the 07 53 23 Specification was entirety. There is no Base Sheet or Vapor Barrier under any of the project EDPM use areas. Clarification of such will be included in the next Addendum. Brennan Hartin - FGM Architects. 	
ed to penetrate the roof decking and where they are allowed. Building C has an overhang that	ate the roof deckir	red to penet	rs are not allow	chanical fastene	of decking and also where me walls?	is not to be used over metal ro eners not be allowed past the I.msg	Double checking the base sheet as that is not to be used over metal roof decking and also where mechanical fasteners are not allow extends past the building walls. Will fasteners not be allowed past the walls? FW_ Ofallon Pool and Amphitheater - RFI.msg	
Closed Date Ball In Court Location Schedule Cost Cost Impact Code Impact	Due Date	d RFI Manager	Date Initiate	Assignee	Received From	Status Responsible Contractor	Subject	#
O'Fallon, Illinois 62269							ווות כסוופנו מרנוסון סבו אניבט	
Job #: 22-052.G0 OFallon IL City Pool							BUILT ON INTEGRITY.	Hollar
Printed on Thu Feb 29, 2024 at 03:36 pm CST								

 Brennan Hartin (FGM Architects Engineers, Inc.) Responded Tue Feb 27, 2024 at 01:01 pm CST FGMA Response: From input from our Aquatic Consultant, the following is our design team response: Lifeguard chairs are required. AQO.0 shows two lifeguard chairs on the lap pool and 3 on the lei The lifeguard chair locations are approximate. Note 19 on AQO.0 says "LIFEGUARD CHAIR LOCA THE AMERICAN RED CROSS OR SIMILAR APPLICABLE LIFEGUARD AGENCY ARE CONDUCTED F Documents to be provided, NOT owner provided (that could revise if so decided by the Owner). 	Q: The lap pool of O'Fallon.msg	Bid-12 Life Guard Chairs	Brenna FGMA R Item #: depth n depth m depth #: careful structu structu penetra ttem #:	3) The : texture RE_Add	2) Then Q: (3) Park	Terry Kı 1) I see	Bid-13 General Trades	Brennan Ha FGMA Resp A: We will app Addendum. Brennan Ha	Reques	# Subject		Holland Constructi	HO
Brennan Hartin (FGM Architects Engineers, Inc.) Responded Tue Feb 27, 2024 at 01:01 pm CST FGMA Response: From input from our Aquatic Consultant, the following is our design team response: Lifeguard chairs are required. AQ0.0 shows two lifeguard team response: Lifeguard chairs are required. AQ0.0 shows two lifeguard on the lap pool and 3 on the leisure pool. 13 11 00 2.10.A.6.a calls for five total. Lifeguard chairs are required. AQ0.0 shows two lifeguard on the lap pool and 3 on the leisure pool. 13 11 00 2.10.A.6.a calls for five total. Lifeguard chair locations are approximate. Note 19 on AQ0.0 says "LIFEGUARD CHAIR LOCATIONS ARE APPROXIMATE AND ARE SHOWN FOR GENERAL GUIDANCE. IT IS RECOMMENDED THAT ZONE EVALUATIONS ACCORDING TO The lifeguard chair locations are approximate. Note 19 on AQ0.0 says "LIFEGUARD CHAIR LOCATIONS ARE APPROXIMATE AND ARE SHOWN FOR GENERAL GUIDANCE. IT IS RECOMMENDED THAT ZONE EVALUATIONS ACCORDING TO The lifeguard chair locations are approximate. Note 19 on AQ0.0 says "LIFEGUARD CHAIR LOCATIONS ARE APPROXIMATE AND REGULARLY ACCORDING TO AGENCY GUIDELINES." To clarify, for now, these are in the Bid THE AMERICAN RED CROSS OR A SIMILAR APPLICABLE LIFEGUARD AGENCY ARE CONDUCTED PRIOR TO OPERATING THE FACILITY AND REGULARLY ACCORDING TO AGENCY GUIDELINES." To clarify, for now, these are in the Bid	Terry Kennedy Sent Fri Feb 23, 2024 at 10:56 am CST The lap pool does not seem to have any lifeguard chairs, are any required? O'Fallon.msg	ſS	Brennan Hartin (FGM Architects Engineers, Inc.) Responded Thu Feb 29, 2024 at 09:49 am CST FGMA Response: Item #1 - Bid Package scoping would be decided per Project CM/ Holland Construction Services. We feel the 9/AQ2.2 detail makes clear the signage intent, further information on the tile is found in Spec. Section 13 11 03 and the depth marker tile is described in Spec. Section 13 11 03.2.1G. Item #2 - The proposed Sign Panel type would be acceptable, any post or stud type mounting maybe problematic given the backup finish material. This is OVER an aluminum siding veneer and any post type mounting would take careful and planned blocking backup within the outboard insultation or be capable to recess fully back to the CMU wall substrate behind the aluminum siding and outboard continuous insultation. To be clear the siding itself is INT structural back-up material to mount to, therefore a best adhered system - exterior rated would be the recommendation or be capable to maintain mounting through the siding system if possible, to an approved substrate all penetrations, waterproofing of (sealing) and engineering of post install would be the responsibility of the Signage manuf,/supplier. Item #3 - That would be an acceptable submission for the project plaque.	3) The specifications for the plaque (Section 10 1416) call for an anodized finish. That is not available for cast aluminum plaques. We textured as specified). Is that acceptable? RE_ Additional O'Fallon Pool and Amphitheater RFC.msg	2) There is a Park District logo at 1/A2.0. Key Note L1 directs to the specifications for details. I do not see any details on what they are (3) Park District colors be acceptable? Proposed mounting would be mechanical using studs welded to the back of the panel.	Terry Kennedy Sent Mon Feb 26, 2024 at 07:23 am CST 1) I see Pool Depth signage at Sheets AQ2.0 & AQ3.0. Is this signage to be provided by Bid Package 13? Details at 9/AQ2.2 suggest that these are tiles, but there is no detail on the desired material, etc. Please advise	General Trades Package Signage Clarification	Brennan Hartin (FGM Architects Engineers, Inc.) Responded Tue Feb 27, 2024 at 01:44 pm CST FGMA Response: We will approve of this submitted Sub Request for the Signage types listed as long as products, production and installation still conform to the related Specification Section requirements. Approval will be part of the next Addendum. Brennan Hartin - FGM Architects	Request for Substitution - Signage.msg			BUILT ON INTEGRITY.	LLAND
s, Inc.) Responded Tue Feb 27 he following is our design tea he stwo lifeguard chairs on the stwo. Note 19 on AQ0.0 says '	:56 am CST feguard chairs, are any requi	Closed Holland Construct	s, Inc.) Responded Thu Feb 29 ecided per Project CM/ Hollar crion 13 11 03, 2.1G. ould be acceptable, any post on the outboard insultation of herefore a best adhered syst herefore a best adhered syst nd engineering of post instal bmission for the project plaq	on 10 1416) call for an anodi: ? aater RFC.msg	Key Note L1 directs to the spe posed mounting would be m	17:23 am CST 0 & AQ3.0. Is this signage t	Closed Holland Construct	s, Inc.) Responded Tue Feb 2 7 Juest for the Signage types li		Status Responsible Contractor			
7, 2024 at 01:01 pm CST im response: lap pool and 3 on the leisure 'LIFEGUARD CHAIR LOCATIOI EMOY ADE CONDUCTED BDIOI	red?	Goette, Greg (Holland Construction Services)	9, 2024 at 09:49 am CST and Construction Services. We constud type mounting mayb r be capable to recess fully be em - exterior rated would be em - exterior rated would be l would be the responsibility ue.	zed finish. That is not availat	ecifications for details. I do n lechanical using studs welder	o be provided by Bid Package	Kennedy, Terry (Holland Construction Services)	, 2024 at 01:44 pm CST sted as long as products, pro		Received From			
pool. 13 11 00 2.10.A.6.a VS ARE APPROXIMATE AN R TO OPERATING THE FAC		Hartin, Brennan (e feel the 9/AQ2.2 detail r problematic given the ack to the CMU wall subst the recommendation or I of the Signage manuf./su	ole for cast aluminum pla	ot see any details on wha d to the back of the panel	13? Details at 9/AQ2.2 s	Hartin, Brennan (02/26/2024 Matchett, Dan (FG	duction and installation s		Assignee Date			
a calls for five total. D ARE SHOWN FOR GEN		Terry Kennedy	makes clear the signage backup finish material. rate behind the alumin ce capable to maintain r pplier.		it they are seeking at Se l.	suggest that these are ti	Terry Kennedy	till conform to the relate		Date Initiated RFI [Manager			
LERAL GUIDANCE. IT IS		03/01/2024 02/28/24	intent, further informa This is OVER an alumin Jm siding and outboard mounting through the s	orushed text/graphics w	ction 10 1419. Would a	les, but there is no deta	03/04/2024 02/29/24	ed Specification Section		Due Date Close			
RECOMMENDED THAT ZOI		24	ion on the tile is found in : um siding veneer and any continuous insulation. To ding system if possible, to	ith a protective clear coat	1/4"d aluminum panel th	il on the desired material.	24	requirements. Approval v		Closed Date Ball In Court		oſ	Printed on
ive total.)WN FOR GENERAL GUIDANCE. IT IS RECOMMENDED THAT ZONE EVALUATIONS ACCORDING REGULARLY ACCORDING TO AGENCY GUIDELINES." To clarify, for now, these are in the Bid			Spec. Section 13 11 03 ar post type mounting woul the clear the siding itself an approved substrate a	offer raised, brushed text/graphics with a protective clear coat (background can be painted &	seeking at Section 10 1419. Would a 1/4"d aluminum panel that is masked & painted with the	, etc. Please advise.		will be part of the next		Location Schedule Impact	O'Fallon	Job #: 22-052.G0 OFallon IL City Pool	Printed on Thu Feb 29, 2024 at 03:36 pm CST
DING TO Bid			nd the Id take is NOT a	nted &	rith the					Cost Cost Code Impact	O'Fallon, Illinois 62269	llon IL City Pool	t 03:36 pm CST

Bid-11 Flooring Clarifications

Closed Holland Construct...

Kennedy, Terry (Holland Construction Services)

Hartin, 02/23/2024 Brennan (...

Terry Kennedy

03/01/2024

02/28/24

ö

Terry Kennedy Sent Fri Feb 23, 2024 at 10:49 am CST

Holland Construction Services	BUILT ON INTEGRITY	HOLLAND
nstruction Services	JUILT ON INTEGRITY	HOLLAND

Job #: 22-052.G0 OFallon IL City Pool

O'Fallon, Illinois 62269

Subject	Status Responsible Received From Assignee Date Initiated RFI Due Date Closed Date Ball In Court Location Schedule Contractor Impact
A1.6 - Pl Legend.	A1.6 - Plan states Rotary Closet A122B to receive LVT-1 but shows Sealed Concrete according to the Legend. Please advise.
A1.6 - Pa height o	A1.6 - Passage A116 - States CT-2 on the wetwall, but I am not finding an elevation on the height of this. Am I to assume the entire wall 8' up?
A1.6 - Pa FW_ RFI	A1.6 - Passage A116 - States CT-2 on the wetwall, is this to receive tile base as well? FW_ RFI #1 O'Fallon Pool and Amphitheater.msg
Brennan FGMA Re	Brennan Hartin (FGM Architects Engineers, Inc.) Responded Tue Feb 27, 2024 at 04:41 pm CST FGMA Response:
FGMA Re tem #1 8'-3" - to tem #3 Brennan	HergA Response: Item #1: Rotary Closet A122B should be Sealed Concrete flooring, any further adjustment and clarification will be done so at the next Addendum issuance. Item #2: CT2 will be utilized at the wet wall only of the EWC/Drinking Fountain alcove, an Int. Elevation clarification will be issued as well as part of the next Addendum issuance. Note the height of this alcove will be revising to 8-3" - to best work to full size tile heights (alcove ceiling height will also be revised in Addendum). Item #3: Yes, where CT-2 is utilized at the EWC/DF Wet Wall this wall length only will have CTB-2 tile base. The other walls of Passage A116, including even the return walls into that alcove will be RCB-1. Brennan Hartin - FGM Architects
Bid-10 Audio System M	Audio System Missing Spec Section Closed Holland Goette, Greg (Holland Hartin, 02/23/2024 Terry 03/01/2024 02/28/24 Construct Construction Services) Brennan (
Terry Kenned Q: It appears the O'Fallon.msg	Terry Kennedy Sent Fri Feb 23, 2024 at 10:21 am CST It appears the electrician is to supply the audio system for the project. The plans reference spec section 260950 for the equipment, but that section is not in the bid documents, please clarify. OrFallon.msg
Brennan FGMA Re This Spe Brennan	Brennan Hartin (FGM Architects Engineers, Inc.) Responded Tue Feb 27, 2024 at 04:42 pm CST FGMA Response: This Spec Section was in fact omitted by the Electrical Engineer and will be included in the next Addendum issuance formally. Brennan Hartin - FGM Architects
Bid-9 Steel Package A	Steel Package AISC Specifications Closed Holland Kennedy, Terry (Holland Hartin, 02/23/2024 Terry 03/01/2024 02/28/24 Construct Construction Services) Brennan (
Q: I am wor is a poss O'Fallon	Terry Kennedy Sent Fri Feb 23, 2024 at 09:33 am CST Tam working on a steel bid for the O'Fallon Pool and Amphitheater Project. Would it be possible for you to waive the AISC specification if my company can demonstrate that we follow AISC requirements? Please let me know if this is a possibility and what I can do to expedite our approval. O'Fallon Pool and Amphitheater Project.msg
A: With inp Project F Brennan	Brennan Hartin (FGM Architects Engineers, Inc.) Responded Tue Feb 27, 2024 at 01:04 pm CST FGMA Response: With input from our Structural Engineer of Record (Kreher Engineering): Project Fabricators and Erectors need to be AISC Certified. Brennan Hartin - FGM Architects
A: Terry Ker Holland	Terry Kennedy (Holland Construction Services) Responded Mon Feb 26, 2024 at 12:37 pm CST Holland has no comment pertaining to this RFI. This is a decision for FGM and the Owner.
Bid-8 Bid Package #4 Studs Scope of V	Bid Package #4 Masonry/Bid Package # 9.1 Metal Closed Holland Kennedy, Terry (Holland Hartin, 02/23/2024 Terry 03/01/2024 02/26/24 Studs Scope of Work Clarification Construct Construction Services) Brennan (
Terry Ker Q: Can you	Terry Kennedy Sent Fri Feb 23, 2024 at 09:26 am CST Can you change the air barrier scope to be by 1 package, #4 Masonry or #9.1 Metal Studs? And then the ridged would be by whomever puts the skin on.

Terry Kennedy Sent Fri Feb 23, 2024 at 08:09 am CST It is project. The plans are lacking enough information for me to figure out what doors these will be. Can you tell me what room they plan on making the FEMA shelter?	Terry Kennedy Sent Fri Feb 23, 2024 at 08:09 am CST It looks like there are going to be ICC-500 FEMA doors on t
Holland Kennedy, Terry (Holland Hartin, 02/23/2024 Terry Construct Construction Services) Brennan (02/23/2024 Kennedy 03/01/2024 02/23/24	Bid-6 ICC-500 FEMA Doors Closed Co
	A: FGM Response needed on questions #3, #4, #5 and #6.
d Mon Feb 26, 2024 at 12:32 pm CST heen adjusted accordingly	Terry Kennedy (Holland Construction Services) Responded Mon Feb 26, 2024 at 12:32 pm CST Holland Note: Scropes effecting question #1 and #2 have been adjusted accordingly
guard railing overturning forces are compliant and met for the 3.5' fencing when used in guardrail applications at top of changes in pavement grade. Item #6 - We have confirmed with Ameristar that sizes beyond 3.5' minimum (smaller widths) are possible for production - just not listed in publications. The pool, including fencing & gates is subjected to a State of IL. Dept. of Public Health (IDPH) Pemit review and for the matter of bidding shall remain consistent so as not to interfere with that Permitting review process. If during construction and shop submission, there is found a more economical standard gate size approach to use and it is deemed acceptable by all permitting AHJ's we could entertain a submitted substituted to a standard size but for now the sizes listed should be bid and are confirmed possible for production by the Basis-of-Design Manuf. ILTUO vs Versa - Related to RFI #Bid-7_pdf Email Communication_3-Form-RFI #Bid-7_2024.02.28.pdf	guard railing overturning forces are compliant and met for Item #6 - We have confirmed with Ameristar that sizes bey Public Health (IDPH) Permit review and for the matter of bi standard gate size approach to use and it is deemed accep production by the Basis-of-Design Manuf. ILTUO vs Versa - Related to RFI #Bid-7_2024.02.28.pdf Email Communication_3-Form-RFI #Bid-7_2024.02.28.pdf
thought best solution. We will alter the ARP.1 note to allow for Versa collection as well in the next Addendum. Item #4 - On AL6, 1 Overall Finish Plan, these Corner Guards are referred to and located by a F3 project Finish Plan Keyed Note. We feel this properly covers location. There will be modifications to this note and the CG-1 description to revise noted height of Corner Guard CG-1 product to be 4' total length (not full height) to match to the related Project Specification. Item #5 - Assume the best install at pavement locations as per the manufacturer recommendations. Note pavement at these areas are to be 4' total thickness. Plate mounted can be an acceptable install assuming that all IBC	 thought best solution. We will alter the ARP-1 note to allow for Versa collection as well in the next Addendum the will alter the ARP-1 note to allow for Versa collection as well in the next Addendum. Item #4 - On A1.6.1 Overall Finish Plan, these Corner Guards are referred to and located by a F3 project Finish Plan, these Corner Guards are referred to and located by a F3 project Finish Plan, these Corner Guards are referred to and located by a F3 project Finish Plan, these Corner Guards are referred to and located by a F3 project Finish Plan, these Corner Guards CG-1 product to be 4' total length (not full height) to match description to revise noted height of Corner Guard CG-1 product to be 4' total length (not full height) to match the match are the best install at pavement locations as per the manufacturer recommendations. Note pa
	FGMA Response: Items #1 & #2 - Involve Bid Package Scoping and are the Item #3: The intent was in fact to have two panels just but further communication with a 3- Form for thic installation a Basis of Design maintains as 3-Form for this installation a
ed Thu Feb 29, 2024 at 09:26 am CST	Brennan Hartin (FGM Architects Engineers, Inc.) Responded Thu Feb 29, 2024 at 09:26 am CST
on grawing A1.5 and A4.3, AKY-1 (ACIVIC RESID Parter) is snown as an "L-Shaped 2 Panel Partition", but the thinsh plan does not specific the exact product from the litud collection. Please commit that the configuration shows is 2-200.57 panels butted up to create an L shape. Shows is 2-200.57 panels butted up to create an L shape. On drawing A1.6, comer guards (CG-1) are referced on the finish plan, but no locations are shown on the drawings. Please provide additional information. The posts that are not in the decorative rock area in the plan(A0.1A) for the 8' and 3.5' fencing, are they to be plate mounted or plan for core drilling? The gate sizes specified in the callouts for the gates 6' double swing gate. The minimum size gates for the Aegis Plus and the Echelon Plus has a minimum gate size of 3.5'.	ი, თ. გ. ს
provide clarification. If the provide our provide the project site is contracted by include clarification of all exterior windows, storefronts, casework, flooring, and curtain walls. This also Under Bid Package NO.06 # 24, it states "Include final cleanup for the entire footprint of the project site. This will include cleaning of all exterior windows, storefronts, casework, flooring, and curtain walls. This also includes power washing of site walks." However, #1 states "Include final clean clean this contradiction up?	
y Sent Fri Feb 23, 2024 at 09:10 am CST Under Bid Package NO.06 #21.B, it states "This Contractor to furnish all door hardware including hardware for aluminum door system and battery powered 4-digit lockets. This Contractor to distribute aluminum door hardware to Bid Package No. 10 Contractor for installation. Auto door operators are to be provided to this contractor." Jassume the reference to Bid Package No. 10 Contractor to distribute aluminum door hardware to Bid Package No. 10 Contractor for installation. Auto door operators are to be provided to this contractor." Jassume the reference to Bid Package No. 10 Contractor to distribute aluminum door	Terry Kennedy Sent Fri Feb 23, 2024 at 09:10 am CST 1. Under Bid Package NO.06 #21.B, it states "T hardware to Bid Package No. 10 Contractor f
Holland Kennedy, Terry (Holland Hartin, 02/23/2024 Terry 03/01/2024 02/29/24 Construct Construction Services) Brennan (02/23/2024 Kennedy 03/01/2024 02/29/24	
d Mon Feb 26, 2024 at 12:33 pm CST revised to clarify the concern/RFI.	A: Terry Kennedy (Holland Construction Services) Responded Mon Feb 26, 2024 at 12:33 pm CST Holland Note: Masonry and Metal Stud Scopes have been revised to clarify the concern/RFI.
Responsible Received From Assignee Date Initiated RFI Due Date Closed Date Ball In Court Location Schedule Cost Contractor Impact Code Impact	# Subject Status Re
O'Fallon, Illinois 62269	Holland Construction Services
Job #: 22-052.G0 OFallon IL City Pool	BUILT ON INTEGRITY
Printed on Thu Feb 29, 2024 at 03:36 pm CST	THOILLAND

Page 6 of 8

				er completely.	lve and answe	olland CS to reso	2, 2024 at 04:26 pm CST estion and therefore best for H	;, Inc.) Responded Thu Feb 2 and Bid Package related qu	Brennan Hartin (FGM Architects Engineers, Inc.) Responded Thu Feb 22, 2024 at 04:26 pm CST FGMA Response: We feel this is a scoping and Bid Package related question and therefore best for Holland CS to resolve and answ	A: Brer FGM	
							;, 2024 at 12:25 pm CST #1.	ices) Responded Mon Feb 26 copes of work in Addendum	Terry Kennedy (Holland Construction Services) Responded Mon Feb 26, 2024 at 12:25 pm CST Holland Note: Please review the revised scopes of work in Addendum #1.	A: Terry Hollia	
						ω Ψ	DED FROM THS PACKAGE. 3shings, it contradicts with lin	1:48 pm CST line 3 SHEET METAL EXCLU ision Joints, Metal counter fi	Terry Kennedy Sent Sun Feb 18, 2024 at 01:48 pm CST Bid Package 7.1, Scope and Specific Items- line 3 SHEET METAL EXCLUDED FROM THS PACKAGE. The Line 4 reads - Premanufactured Expansion Joints, Metal counter flashings, it contradicts with line 3. Clarify, Please	Q : Bid F The Clari	
		02/26/24	03/25/2024	Terry Kennedy	02/18/2024	Hartin, Brennan (Kennedy, Terry (Holland Construction Services)	Closed Holland Construct	Sheet Metal in Roofing Scope Clarification	Sheet Metal	Bid-3
									Brennan Hartin - FGM Architects	Brer	
æ	In regards to the back of Parapet installation, there will be at times rigid insulation as shown in the sheathing as called for in the 06 16 00 "Sheathing" Specification. Likewise, some Architectural	et installation 5 16 00 "Shea	ອ back of Parap led for in the 00	n regards to th	d coverage). Il be Plywood	(whose install ar ned parapets sha he next Addenda	2, 2024 at 04:24 pm CST icakge work related questions ? Back or Roof side of stud frar ill be revised and updated in t	, Inc.) Responded Thu Feb 2 CS for all scoping and bid pa as showing sheathing at the nis Plywood sheathing and w	Brennan Hartin (FGM Architects Engineers, Inc.) Responded Thu Feb 22, 2024 at 04:24 pm CST FGMA Response: We will defer to Holland CS for all scoping and bid pacakge work related questions (whose install and coverage). Bid Documents, however notation and areas showing sheathing at the Back or Roof side of stud framed parapets shall be Plywood Enlarged Details did not properly reflect this Plywood sheathing and will be revised and updated in the next Addenda.	Brer FGM Bid [Enla	
								idum.	FGM - To provide a new detail in the addendum.	FGM	
				sheeting.	this conflict of :	revised to cover	i, 2024 at 12:26 pm CST fing. These scopes have been	ices) Responded Mon Feb 26 entry, Metal Studs, and Roo	Terry Kennedy (Holland Construction Services) Responded Mon Feb 26, 2024 at 12:26 pm CST Holland Note: Review revised scopes Carpentry, Metal Studs, and Roofing. These scopes have been revised to cover this conflict of sheeting.	Terry A: Holla	
		on.	wall recovery board and insulation.	all recovery bo		ill on the back of type R-1 ?	i- Specifies to supply and insta to higher structure on the roof	1:51 pm CST rr Scope and Specifics, line 6 the INNER walls from lower	Terry Kennedy Sent Sun Feb 18, 2024 at 01:51 pm CST Our Package 7.1 Membrane Roofing. Under Scope and Specifics, line 6- Specifies to supply and install on the back of the PARAPET My question is: Who supplies and installs the material for the INNER walls from lower to higher structure on the roof type R-1 ?	Q Our My c Who	
		02/26/24	03/25/2024	Terry Kennedy	02/18/2024	Hartin, Brennan (Kennedy, Terry (Holland Construction Services)	Closed Holland Construct	Parapet Wall Scope Clarification	Parapet Wall	Bid-4 F
									Brennan Hartin - FGM Architects	Brer	
ŭ	5.1 "Strap Bracing Details" Sheet. The Specification 00 01 15 "Schedule of Drawings" does list the	st. The Speci	ıg Details" Shee	1 "Strap Bracir	iss listing S0.5.	ed does in fact m	21, 2024 at 04:06 pm CST 30.1. That same index as stat da as needed.	s, Inc.) Responded Wed Feb 2 arror on the Sheet Index on (aupdated in the next Adden	Brennan Hartin (FGM Architects Engineers, Inc.) Responded Wed Feb 21, 2024 at 04:06 pm CST C4.2 Sheet does not exist, it was listed in error on the Sheet Index on G0.1. That same index as stated does in fact miss listing S0. drawings correctly. The G0.1 Sheet can be updated in the next Addenda as needed.	Brer C4.2 A: drav	
									C4.2 not received S0.5.1 not listed on the index	C4.2 S0.5	
							es :	1:59 pm CST ed the following discrepanci	Terry Kennedy Sent Sun Feb 18, 2024 at 01:59 pm CST Upon entering the plans in Procore, I noticed the following discrepancies:		
		02/23/24	03/25/2024	Terry Kennedy	02/18/2024	Hartin, Brennan (Kennedy, Terry (Holland Construction Services)	Closed Holland Construct	Missing Sheets in Construction Documents	Missing She	Bid-5 I
							2024 at 11:08 am CST	ices) Responded Fri Feb 23, : ol. Closing the loop.	Terry Kennedy (Holland Construction Services) Responded Fri Feb 23, 2024 at 11:08 am CST This was pertaining to the Gym not the Pool. Closing the loop. RE_ O'Fallon IL Community Park Gym.msg	A: This RE_	
									RE_ O'Fallon IL Community Park Gym.msg	RE	
st Cost de Impact	ate Ball In Court Location Schedule Cost Impact Code	Closed Date	Due Date	d RFI Manager	Date Initiated	Assignee	Received From	Status Responsible Contractor		Subject	*
									Holland Construction Services	d Constru	Hollan
L Citv Pool	lob #: 22-052.G0 OFallon IL City Pool									BUIT	×
36 pm CST	Printed on Thu Feb 29, 2024 at 03:36 pm CST									5	

Holland (★
Holland Construction Services	HOLLAND

Job #: 22-052.G0 OFallon IL City Pool

O'Fallon, Illinois 62269

#	Subject	Ject	Status Responsible Contractor	Received From	Assignee	Date Initiated	l RFI Manager	Due Date	Closed Date	Ball In Court	Location	Location Schedule Impact	Cost Code
		Brennan Hartin - FGM Architects											
Bid-2		Membrane Roofing at Parapet Wall	Closed Holland Construct	Kennedy, Terry (Holland Construction Services)	Hartin, Brennan (02/18/2024	Terry Kennedy	03/25/2024	02/26/24				
	ö	Terry Kennedy Sent Sun Feb 18, 2024 at 01:45 pm CST Bid Package 7.1 Membrane roofing: On the parapet walls the field material must be terminated at least 12' O.C., by the Manufacturer specification. The Drawings are showing ISO- board and gypsum cover board. With all that bean said, are only option to terminate the field material is to screw trough the wall insulation and cover board to the wall metal studs. and they are 16" O.C., which is not warranted by the Manufacturer specifics. Also, we are a not allowed to be mechanically attached to the metal deck, according to the job specifications. So, You guys might have to Install a plywood on the walls instead cover board, which is probably has to go to the carpenters bid package.	45 pm CST .be terminated at least 12' ypsum cover board. With a turer specifics. Iv attached to the metal de lon the walls instead cove	O.C., by the Manufacturer spec II that bean said, are only optio ck, according to the job specifi board, which is probably has t	ification. n to terminate t cations. o go to the carp	he field materia enters bid pack	l is to screw t	ough the wall i	insulation and cove	r board to the wall	metal studs	. and they ar	e 16'
	A:	Terry Kennedy (Holland Construction Services) Responded Mon Feb 26, 2024 at 12:21 pm CST Holland Note: Review revised scopes Carpentry, Metal Studs, and Roofing. These scopes have been revised to cover this conflict of sheeting	es) Responded Mon Feb 26 htry, Metal Studs, and Roof	2024 at 12:21 pm CST ng. These scopes have been re	vised to cover t	his conflict of sh	neeting.						
		FGM - To provide a new detail in the addendum	ım.										
	A:	Brennan Hartin (FGM Architects Engineers, Inc.) Responded Wed Feb 21, 2024 at 04:54 pm CST I will defer to Holland CS on all scoping and bid package coverage questions. In relation to Plywood at the rear (roofing side) parap sides. I think many of the Wall Section Sheets were updated as such but that the components as shown and called out in A3.9 Wal 00 "Sheathing" does in fact refer to Exterior Plywood Wall and Parapet & Coping Sheathing and states to be typical at rear-side of	nc.) Responded Wed Feb 2 oid package coverage ques ts were updated as such b Plywood Wall and Parapet	 2024 at 04:54 pm CST tions. In relation to Plywood at that the components as shov & Coping Sheathing and states 	: the rear (roofin vn and called ou to be typical at	ıg side) parapet ıt in A3.9 Wall Sı rear-side of par	of Stud Frame ection Details apet vertical s	ed Wall Types, t (14, 11, 8, 5 or sheathing. The	pet of Stud Framed Wall Types, the intent was in fact for Plywood to be on these parapet back or rear Il Section Details (14, 11, 8, 5 on that Sheet) did not get updated. The Specification Section 06 16 parapet vertical sheathing. The A3:9 Wall Section Details will be corrected per Addenda.	ct for Plywood to b it get updated. Th Details will be corr	e on these p e Specificati ected per Ac	arapet back c on Section 06 denda.	or rea i 16
		Brennan Hartin - FGM Architects											
Bid-1		Food Service Equipment	Closed Holland Construct	Kennedy, Terry (Holland Construction Services)	Hartin, Brennan (02/18/2024	Terry Kennedy	03/25/2024	02/26/24				
	ö	Terry Kennedy Sent Sun Feb 18, 2024 at 01:41 pm CST Is there a detailed spec doc for the foodservice equipment bid that details the manufacturer, model numbers etc that have been s	41 pm CST ice equipment bid that det	ails the manufacturer, model n	umbers etc that	: have been spe	pecified please?						
	₽:	Term Kennedy (Holland Construction Service	Terry Kennedy (Holland Construction Services) Responded Mon Feb 26, 2024 at 12:19 pm CST Holland Note : Please review revised scopes. Primarily Electrical, Plumbing and Carpentry in re	2024 at 12:19 pm CST bing and Carpentry in regards t	o the install and	l of items provid	ed by the owr	rer noted in thi	s RFI.				
				1, 2024 at 03:57 pm CST e from this project Bid Scope a	nd Not in this pr	oject Bid. The C	oncession sp	ace was desigr his Bid are a ha	re Concession space was designed around a planned equipment layout and items that was used fo items within for this Bid are a handsink and Three Compartment sink (and all related components)	ed equipment layc Compartment sink	ut and item (and all rela	; that was use ted compone	ed for ∙nts)
	Þ:		nc.) Responded Wed Feb 2 urchased item and separa lly the Room is a 'White Bo bing Sheets and Spec Divis	<' with utility roughs for this Prc ions.	ject Bid. The or		ns within for t						

BID PACKAGE NO. 04 – MASONRY

Holland Construction Services Standard Scope Items

- 1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, as well as the Special Conditions above, apply to this Section. Technical Specifications, which relate to this Bid Category, include, but are not limited to the following sections:
 - A. Spec 04 22 00 Concrete Unit Masonry
 - B. Spec 04 72 00 Cast Stone Masonry
 - C. Spec 07 27 26 Fluid Applied Membrane Air Barriers
- 2. Each contractor is responsible for the complete contents of the general notes for this project as shown on the Drawings.
- 3. Each contractor shall provide bid security in the amount of 5% of the bid as a Bid Bond or a Cashier's check. Any bid submitted without a bid security will not be accepted.
- 4. Each contractor shall provide a performance and payment bond. Bonds shall be obtained and presented to the Construction Manager prior to execution of the contract with Owner.
- 5. This contractor shall pay at a minimum the current Prevailing wage rates listed for the county for which the work is being performed. Please contact IDOL at 217-782-1710 for wage rates or clarifications. Each Contractor and Subcontractor shall submit, on a monthly basis, a certified payroll to the Owner, evidencing the Contractor's and Subcontractor's compliance with the Prevailing Wage Act.
- 6. This Contractor shall coordinate the work of this package with all other trades performing adjacent/concurrent work to ensure proper, timely, and adequate interface.
- 7. This contractor shall include all traffic control measures necessary to perform, protect this work and to protect the public.
- 8. All construction traffic to utilize the parking/laydown areas.
- 9. All rubbish and debris generated by this contractor shall be placed in dumpsters provided by this contractor.
- 10. This contractor will be directed to proceed with submittals, shop drawings based upon the base bid amount, immediately after contract is awarded.
- 11. Contractor to assist in coordination of testing (by Owner) required by this scope of work.
- 12. This Contractor shall be responsible for keeping surrounding streets clean from all mud and debris as a result of this scope of work.
- 13. Prior to availability of temporary electric service, this Contractor shall be responsible for its own temporary power requirements to complete the work of this Bid Package.

Scope Specific Items

- 1. This Contractor is responsible for delivery of all materials necessary to perform this scope of work. All deliveries must be coordinated with Holland Construction Services.
- 2. This Contractor shall provide all labor, materials, tools, and equipment to furnish and install all items described in this Bid Package along will all additional components and accessories needed for a complete and finished system and installation in accordance with the Contract Documents.
- 3. This bid package includes all labor, material, tools and equipment to furnish and install all concrete masonry units, veneer block units, cast stone veneers, cavity wall insulation, mortar, masonry joint reinforcement, ties and anchors, reinforcing steel, embedded metal flashing, compressible fillers, wicks, cavity drainage, temporary wind bracing and cold weather protection to provide a complete exterior masonry system, structural masonry and interior masonry in accordance with the plans and specifications.
- 4. Furnish and install all thru-wall flashing and weeps.

- 5. Provide all washing and cleaning of masonry. Includes all temporary protection of masonry work.
- 6. Provide all miscellaneous masonry accessories.
- 7. Provide all masonry expansion joints as required and/or indicated on the drawings.
- 8. Provide necessary labor and material to patch masonry around all wall penetrations.
- Provide and install all rigid board cavity insulation, thermal and air barrier membrane at masonry walls where indicated. It is the intent that this contractor installs the fluid applied moisture/air barrier and rigid cavity insulation that attaches to masonry.
- 10. This contractor shall provide the fluid applied air barrier for the entire project as specified. Multiple mobilizations will be required.
- 11. This contractor is responsible for the rigid board cavity insulation that is applied to masonry only.
- 12. This contractor to ensure top of wall bracing indicated on the structural drawings is completed. This contractor to set embedded items provided by others. Structural steel contractor to furnish and weld.
- 13. All lintels in masonry openings and not welded to framing will be furnished by the Structural Steel Contractor and installed by the Masonry Contractor. Structural Steel Contractor will furnish and install all lintels welded to framing.
- 14. Provide mock-ups as indicated to demonstrate full-size qualities of materials, workmanship, and aesthetic effects. The on-site location for the mock-up panels shall be as directed by the Construction Manager.
- 15. Install all sleeves, embeds, reglets, and shelf angles furnished by others.
- 16. This contractor to furnish, drill and epoxy all dowels into foundations as required for this work.
- 17. Provide caulking of all masonry joints, masonry to steel joints, and at all locations where masonry abuts other material. This includes any backer rod.
- 18. Provide all required scaffolding and planking and other means to access the work to be performed in this Bid Category.
- 19. Supply and install stone cap at retaining walls as shown on the contract documents.
- 20. All visible corners shall be ground/sealed at production facility, not in the field.
- 21. Furnish and install all temporary bracing of masonry construction in accordance with OSHA and the masonry institute.
- 22. It is this Contractor's responsibility to verify masonry quantities and place Contractor's purchase order.
- 23. This contractor is responsible for all bucks/temporary bracing required at all openings as needed to temporarily support masonry at openings.
- 24. This Contractor shall receive, unload, inventory, store, and install all embeds, sleeves, shelf angles, hoist beams, access doors, and all other items furnished by another trade for installation by this Contractor.
- 25. This Contractor shall include all grouting of masonry to adjacent surfaces, including but not limited to beam pockets, existing finishes, etc.
- 26. This Contractor shall provide clean-up for this work, including broom clean areas, and dispose of all debris daily into dumpsters or trucks provided by this Contractor.
- 27. Once scaffolding system is removed from an area, remove all masonry debris from grade and redress grades to their original elevation and condition. Includes all temporary roads, grades and building structures affected by mortar mixers, lulls, scaffolding and any other masonry equipment.
- 28. Include labor and material to patch masonry around all mechanical, electrical, plumbing and fire protection items.
- 29. Grout and/or insulate all hollow metal frames adjacent to masonry.
- 30. This contractor understands that sequencing of steel erection and other trades will dictate work areas. Areas of the building will need to be left out for access.
- 31. This contractor is responsible for daily protection of its walls to prevent rain or any water from entering the wall system or cavity.
- 32. The masonry contractor shall provide all layout for this work. Includes layout for wall openings, penetrations, and coordination of other trades.
- 33. Provide all grouting of block in accordance with the construction documents.
- 34. This contractor understands multiple sequences may be involved at each building due to masonry bearing conditions.
- 35. This contractor shall provide dumpsters for their waste
- 36. *Provide mock up as shown on the contract documents*

- 37. All penetrations through fluid applied air barrier shall be sealed per manufacturer's recommendations.
- 38. Exterior insulation at the sheet metal siding that is infilled at the sub framing system is excluded in this contract.

BID PACKAGE NO. 7.2 – Sheet Metal and Aluminum Siding

Holland Construction Services Standard Scope Items

- 1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, as well as the Special Conditions above, apply to this Section. Technical Specifications, which relate to this Bid Category, include, but are not limited to the following sections:
 - A. Spec 07 42 10.11 Composite Metal Hybrid (CMH) Sub Framing System
 - B. Spec 07 46 16 Aluminum Siding and Soffit Panels
 - C. Spec 07 62 00 Sheet Metal Flashing and Trim
 - D. Spec 07 71 23.13 Manufactured Downspout Boots
 - E. Spec 07 92 00 Joint Sealants (Exterior/Roof)
- 2. Each contractor is responsible for the complete contents of the general notes for this project as shown on the Drawings.
- 3. Each contractor shall provide bid security in the amount of 5% of the bid as a Bid Bond or a Cashier's check. Any bid submitted without a bid security will not be accepted.
- 4. Each contractor shall provide a performance and payment bond. Bonds shall be obtained and presented to the Construction Manager prior to execution of the contract with Owner.
- 5. This contractor shall pay at a minimum the current Prevailing wage rates listed for the county for which the work is being performed. Please contact IDOL at 217-782-1710 for wage rates or clarifications. Each Contractor and Subcontractor shall submit, on a monthly basis, a certified payroll to the Owner, evidencing the Contractor's and Subcontractor's compliance with the Prevailing Wage Act.
- 6. This Contractor shall coordinate the work of this package with all other trades performing adjacent/concurrent work to ensure proper, timely, and adequate interface.
- 7. This Contractor shall include all traffic control measures necessary to perform, protect this work and to protect the public.
- 8. All construction traffic to utilize the parking/laydown areas.
- 9. All rubbish and debris generated by this contractor shall be placed in dumpsters by this contractor. Dumpsters to be provided by Holland.
- 10. This contractor will be directed to proceed with submittals, shop drawings based upon the base bid amount, immediately after contract is awarded.
- 11. This Contractor shall be responsible for keeping surrounding streets clean from all mud and debris as a result of this scope of work.
- 12. Prior to availability of temporary electric service, this Contractor shall be responsible for its own temporary power requirements to complete the work of this Bid Package.

Scope Specific Items

- 1. This Contractor is responsible for delivery of all materials necessary to perform this scope of work. All deliveries must be coordinated with Holland Construction Services.
- 2. This Contractor shall provide all labor, materials, tools, and equipment to furnish and install sheet metal fascia, soffit, gutters, scuppers, downspout, and pre-finished break metal in accordance with the Contract Documents.
- 3. This Contractor shall provide all labor, materials, tools, and equipment to furnish and install all aluminum panel siding and soffit in accordance with the Contract Documents, including any and all sub-framing and *insulation systems that integrate with the sub framing* systems.
- 4. Furnish and install downspout connection components per the documents in coordination with Storm Sewer Contractor. The intent for this contractor is to include the cast transition boots at the PVC to the

downspout, as it needs to be coordinated with the shape of the downspouts.

- 5. Furnish and install all splash blocks, precast at ground level and pre-finished metal on roof.
- 6. Provide any component required to obtain the specified warranties shall be included in this Contractor's base bid.
- 7. This Contractor shall be prepared to provide sufficient manpower, equipment, and material to install sheet metal, gutter, scupper, and downspouts systems in multiple areas simultaneously as required by the Construction Manager. The Contractor agrees to install multiple systems in multiple building areas at the same time as dictated by the schedule.
- 8. Provide for a smooth transition at all tie-in locations as it relates to this Bid Package. Include any and all caulking at areas where finished products of this scope abut previously finished items.
- 9. Provide all necessary weather protection as required to guard all work under this Bid Package work from any damage during installation.
- 10. *Provide mock up as shown on the contract documents.*
- 11. All penetrations through fluid applied air barrier shall be sealed per manufacturer's recommendations.

BID PACKAGE NO. 9.1 – Metal Studs / Drywall/ Acoustical Ceilings

Holland Construction Services Standard Scope Items

- 1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, as well as the Special Conditions above, apply to this Section. Technical Specifications, which relate to this Bid Category, include, but are not limited to the following sections:
 - A. Spec 05 40 00 Cold Formed Metal Framing
 - B. Spec 07 21 00 Thermal Insulation
 - C. Spec 07 24 19 Water-Drainage Exterior Insulation and Finfish System (EIFS)
 - D. Spec 07 24 21 Direct Applied Exterior Finish System (DEFS)
 - E. Spec 07 27 26 Fluid-Applied Membrane Air Barriers
 - F. Spec 07 92 00 Joint Sealants
 - G. Spec 07 95 00 Expansion Control
 - H. Spec 09 22 16 Non-Structural Metal Framing
 - I. Spec 09 29 00 Gypsum Board
 - J. Spec 09 51 13 Acoustical Panel Ceilings
 - K. Spec 09 84 36 Ceiling Sound Diffuser Units
- 2. Each contractor is responsible for the complete contents of the general notes for this project as shown on the Drawings.
- 3. Each contractor shall provide bid security in the amount of 5% of the bid as a Bid Bond or a Cashier's check. Any bid submitted without a bid security will not be accepted.
- 4. Each contractor shall provide a performance and payment bond. Bonds shall be obtained and presented to the Construction Manager prior to execution of the contract with Owner.
- 5. This contractor shall pay at a minimum the current Prevailing wage rates listed for the county for which the work is being performed. Please contact IDOL at 217-782-1710 for wage rates or clarifications. Each Contractor and Subcontractor shall submit, on a monthly basis, a certified payroll to the Owner, evidencing the Contractor's and Subcontractor's compliance with the Prevailing Wage Act.
- 6. Engineered layout will be the responsibility of the Owner.
- 7. This Contractor shall coordinate the work of this package with all other trades performing adjacent/concurrent work to ensure proper, timely, and adequate interface.
- 8. This Contractor shall include all traffic control measures necessary to perform, protect this work and to protect the public.
- 9. All construction traffic to utilize the parking/laydown areas.
- 10. All rubbish and debris generated by this contractor shall be placed in dumpsters by this contractor. Dumpsters to be provided by Holland.
- 11. This contractor will be directed to proceed with submittals, shop drawings based upon the base bid amount, immediately after contract is awarded.
- 12. Contractor to assist in coordination of testing (by Owner) required by this scope of work. Provide all layout required for this package, beyond the scope of work as outlined in contract documents. The Owner will provide control lines and elevation benchmarks one time only. If additional layout is required, this contractor will be responsible for payment for said services.
- 13. This Contractor shall be responsible for keeping surrounding streets clean from all mud and debris as a result of this scope of work.
- 14. Prior to availability of temporary electric service, this Contractor shall be responsible for its own temporary power requirements to complete the work of this Bid Package.
- 15. This Contractor shall include time and materials for any BIM coordination and/or 3D modeling as required for this project.

Scope Specific Items

- 1. This Contractor is responsible for delivery of all materials necessary to perform this scope of work. All deliveries must be coordinated with Holland Construction Services.
- 2. This Contractor shall provide all labor, materials, tools, and equipment to furnish and install all items described in this Bid Package along will all additional components and accessories needed for a complete and finished system and installation in accordance with the Contract Documents.
- 3. Furnish and install all exterior metal studs, structural metal studs, clips, angles, layout, bracing, furring channels, exterior sheathing, shaft wall assemblies, anchors, seismic reinforcing, sealants, insulation, expansion joints, vapor/air barrier, drywall, glass mat, exterior wall sheathing, metal trim, and all other components required for a complete exterior wall framing system in accordance with the construction documents and compatible with all other building components.
 - A. This scope of work shall include the horizontal glass mat sheathing at the exterior vertical parapet walls whether it is below the EIFS system or the membrane roofing.
- 4. Provide and install all rigid board cavity insulation, thermal and air barrier wall system at metal stud walls where indicated. It is the intent that this contractor installs the fluid applied moisture/air barrier and rigid cavity insulation that attaches to the metal studs, excluding an d mineral wool insulation at the metal siding subframing system.
- 5. The fluid applied air barrier is provided by others, this contractor shall coordinate the work with the mason.
- 6. All penetrations through fluid applied air barrier shall be sealed per manufacturer's recommendations.
- 7. This contractor shall include any welding of metal studs as required as noted on the contract documents.
- 8. Furnish and install all interior metal studs, clips, bracing, layout, gypsum board, control joints, slip track, seismic reinforcing, vapor barrier, sound batts, insulation, taping, finishing, anchors, plaster, caulking, metal trims and all other components required for a complete interior partition and ceiling system in accordance with the construction documents and compatible with all other building components.
- 9. Furnish and install all acoustical ceiling grid, pad, splay wires, layout, structural supports, expansion joints, seismic reinforcing, caulking, and all other components required for a complete and total acoustical ceiling system in accordance with the construction documents and compatible with all other building components.
- 10. Furnish and install acoustical ceiling baffles ACB-1, ACB-2.
- 11. Furnish and install all exterior insulation finish systems and direct applied exterior finish systems as noted in the construction documents.
 - A. All flashings and subflashings as required by the contract documents shall be included with this scope of work.
- 12. Furnish and install all caulking of adjacent drywall and acoustical surfaces. Where drywall interfaces with masonry, the drywall contractor will be responsible for caulking.
- 13. This Contractor to provide layout of work in this package including, but not limited to partitions, acoustical ceilings, interior and exterior door opening framing, soffit/bulkhead framing and interior and exterior window opening framing as required.
- 14. Furnish and Install all required access panels in building components included in this scope of work.
- 15. Furnish and install all insulation for all items with this package including, but not limited to all insulation between metal deck and partitions.
- 16. Temporary lighting will be available per the construction documents; any additional lighting required for this work would be this Contractor's responsibility.
- 17. Includes all wall, floor and roof sleeves as required for work included in this Bid Package.
- 18. Furnish and install thermal and air barrier wall system to metal stud framing systems per contract documents. It is the intent that this contractor installs the rigid insulation that attaches to metal stud framing and Bid Package No. 5 will provide and install where it attaches to masonry, regardless of exterior material finish. All spray foam is by this contractor, including top of metal studs, soffit areas and top of CMU walls.
- 19. Furnish and install grout/insulation in all hollow metal frames located in metal stud partitions per contract documents. See hollow metal frame details. Grouting of frames in masonry openings is by the masonry

contractor.

- 20. This contractor to grout all hollow metal frame with closed cell insulation per the contract documents.
- 21. Furnish and install structural bracing in metal stud walls per contract documents. Any welding of metal studs is the responsibility of this contractor.
- 22. This contractor is responsible for the glass mat gypsum sheeting at the backside of the parapets, above the roof as shown on the contract documents.
- 23. Prior to installation of ceiling grid and/or ceiling framing, coordinate with all trades the layout of above ceiling items to avoid interference and to confirm location of all ceiling items. Review all drawings including MEP and FP. Includes layout necessary for mechanical ceiling cassettes.
- 24. Includes all mold and moisture resistant, type-x, and all other specialty gypsum board as indicated in the Contract Documents for all interior partitions.
- 25. Includes wall and ceilings of all header walls, hanging walls, light coves, and all other features constructed of light gauge metal studs or wood framing as indicated in the Contract Documents.
- 26. Includes all specialty furring and framed openings required by the documents for recessed equipment, aluminum framed openings, operable partitions, and difference in finish thicknesses. Coordinate with all applicable trades to maintain STC rated assemblies.
- 27. Includes building a section of exterior sheathing system as an in-place mockup, working mockup for review 2 weeks prior to proceeding with exterior wall work.
- 28. This Contractor to provide frame penetrations for other trades from trades layout prior to framing commencing, as coordinated.
- 29. Install all fire extinguisher cabinet framing to ensure wall system fire rated integrity where applicable.
- 30. All cold formed metal framing, as indicated under division 054000, shall have shop drawings designed by a licensed Structural Engineer registered in the State of Illinois. This is primarily exterior wall framing but could include some limited interior framing that exceeds height or span limitations of the Division 09 non-structural framing or gyp assembly spec sections.
- 31. Includes walls and ceilings of all specialty furring and framed openings required by the documents for recessed equipment, operable partitions, and difference in finish thicknesses. Coordinate with all applicable trades to maintain STC rated assemblies.
- 32. Includes all drywall reveals and other trim accessories associated with the drywall system as indicated in the Contract documents. Drywall trim includes but is not limited to corner beads, L-bead, J-mold.
- 33. Provide all gypsum board around the perimeter of penetrations and behind boxes containing wiring devices, elevator call buttons, elevator floor indicators, and similar items in shaft wall and other light gauge metal framed partitions as indicated in the Contract Documents.
- 34. Provide all control joints as indicated in the Contract Documents and the Gypsum Association's "The Standard Specification of Appling and Finishing of Gypsum Board GA-216." As part of the submittal package for this Bid Package a submittal showing how expansion and control joints will be placed is required.
- 35. Drywall will be held 1/4 inches above concrete and gypcrete slabs. Void filled with fire or acoustical caulking as appropriate.
- 36. Include coordination with other trades as applicable for this scope of work.
- 37. *Provide mockup as shown on the contract documents.*
- 38. This contractor is responsible for the long leg runner system and any other ceiling transition as identified in the construction documents.
- 39. This contractor shall be responsible for any in wall metal blocking. Wood blocking is by others.
- 40. This contractor shall be responsible for all fiberglass sheathing at the parapet walls as detailed in the construction documents.

SECTION 260721 - FIRE ALARM SYSTEMS - ADDRESSABLE

PART 1 - GENERAL

1.1 SUMMARY

A. This section includes addressable fire alarm systems.

1.2 RELATED DOCUMENTS

- A. Applicable provisions of the General Conditions, Supplementary General Conditions and Special Conditions shall govern work performed under this section.
- B. Section 260000 Basic Electrical Requirements
- C. Section 260010 Basic Electrical Materials and Methods
- D. Section 260025 Seismic Restraints

1.3 QUALITY ASSURANCE

- A. The equipment and installation shall comply with the current applicable provisions of the following standards:
 - 1. National Electrical Code, NFPA 70
 - 2. National Fire Alarm Code, NFPA 72
 - 3. International Building Code, IBC
 - 4. Life Safety Code, NFPA 101
 - 5. UL 864, 9th Edition Listed and Factory Mutual Approved
 - 6. ADA and ANSI A117.1
 - 7. NECA 305, "Standard for Fire Alarm System Job Practices"
 - 8. Applicable Local and State Building codes
 - 9. Requirements of the Local Authority Having Jurisdiction.
- B. Equipment Supplier Qualifications
 - 1. The fire alarm equipment supplier shall have a NICET level 4 certified individual on staff responsible for overseeing the technical design and engineering functions related to the fire alarm system. The current NICET level 4 certificate number must be submitted to the engineer with shop drawings submittals.
 - 2. The fire alarm equipment supplier shall have on staff NICET level 2 technicians supervising the final connections and programming of the system.
 - 3. The equipment supplier must be an authorized distributor/dealer of the equipment being provided. The supplier must be factory authorized to service under warranty the components furnished. Two stepping of equipment from a "box house" or out of area distributor is not allowed.
 - 4. Fire Alarm Contractor shall be capable of providing signed and sealed shop drawings for the fire alarm system, by a Professional Engineer of the State in which the project is located.

1.4 SUBMITTALS

- A. Shop Drawings
 - 1. The Contractor shall provide complete fire alarm system documents signed and sealed documents by a Professional Engineer of the State in which the project is located as follows:
 - a. Battery calculations
 - b. Voltage drop calculations
 - c. Wiring details and diagrams including types and sizes
 - d. Location of FACP, power supplies, DACT, annunciators, power connections, etc.
 - e. Floor plan indicating use of each room, ceiling heights and construction
 - f. Fire alarm matrix and interface of the fire safety controls functions
 - g. Equipment, device and material cutsheets and technical details including but not limited to the model number, listing info, type, rating, size, style, for all items.
 - h. Complete list of deviations, exceptions and variations from the Contract Documents related to the fire alarm system and associated equipment and systems.
 - 2. The fire alarm shop drawings will be returned incomplete if signed and sealed documents as outlined above are not submitted. Engineer will provide a preliminary shop drawing review for general conformance prior to submitting final signed and sealed drawings upon request.
 - 3. In the event a separate fire alarm permit/review is required, the signed and sealed Contractor shop drawings are to be submitted to SSC Engineering for review prior to SSC Engineering providing any signed and sealed fire alarm Contract Documents.
 - 4. It is the responsibility of the Contractor to provide the above information in a timely fashion to accommodate the construction schedule.
 - 5. Provide proof of authorization from equipment manufacturer for being a dealer and NICET certificates. The current NICET level 4 certificate number must be submitted to the engineer with shop drawings submittals. Shop drawing will be rejected if a current NICET certificate is not submitted.
 - 6. Provide proof of authorization from equipment manufacturer for being a true authorized distributor/dealer for service and warranty as well as NICET certificates.
- B. Record Drawings
 - 1. Provide one complete set of as-built record drawings following project completion. The drawings shall include:
 - a. Routing of conduit and all wiring from each device, i.e. smoke detector, signaling appliance, etc. to the control panel, or remote power supply.
 - b. Clearly identify each indicating appliance circuit, initiating or SLC circuit, control circuit, etc. and quantity of conductors.

- c. Device location and identification number, control panel, circuit breaker and endof-line resistor locations.
- 2. Provide one complete set of Operations and Maintenance Manuals, including completed Initial Acceptance Test form, Record of Completion form, and final submittal documents.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. The FACP shall be a **Simplex 4007ES (#4007-9102)** and shall contain a microprocessor based Central Processing Unit (CPU). The CPU shall communicate with and control the following types of equipment used to make up the system: intelligent detectors, addressable modules, annunciators and other system controlled devices. The panel shall be UL listed as a Fire Alarm Control Panel per UL 864, 10th Edition.

2.2 SYSTEM GENERAL OPERATION

- A. System Alarm Detection
 - 1. When a fire alarm condition is detected and reported by one of the system initiating devices, the following functions shall immediately occur:
 - a. The System Alarm LED shall flash.
 - b. A local signal in the control panel shall sound.
 - c. The 80-character LCD display shall indicate all information associated with the Fire Alarm condition, including: type of alarm point, its location within the protected premises and the time and date of that activation.
 - d. All system output programs assigned via control-by-event equations to be activated by the particular point in alarm shall be executed including:
 - 1) Alarm Indicating appliances.
 - 2) Control relays for general air handler shutdown.
 - 3) Control relays to recall and shut down power to the elevators per ASME A17.1 requirements.
 - 4) Central station outputs for connection digital communicator:
 - a) Alarm
 - b) Trouble
 - c) Supervisory
 - 2. The Microprocessor unit shall contain and execute all control by event programs for specific action to be taken if an alarm condition is detected by the system. Such control by event programs shall be held in nonvolatile programmable memory and shall not be lost even if system primary and secondary power failure occurs.
 - 3. All programming of the system may be achieved without special equipment or lap top computers and without interrupting the alarm monitoring functions of the Fire Alarm Control Panel. If special hardware or software is required to program the system it must

be included in this contract and be provided to the owner at time of delivery and the owner must be trained on the programming of the system.

- 4. Program edit shall not interfere with normal operation and fire protection. If a fire condition is detected during programming operation, the system shall exit programming and perform fire protection functions as programmed.
- 5. Provide a battery back-up and charging system for 24 hours of standby and 5 minutes of alarm for the entire fire alarm system.
- 6. Provide batteries sized as required per the battery calculations and include a remote battery cabinet if required. Provide seismic rated battery hold down kit and mounting kit.
- B. Special FACP Features
 - 1. The FACP shall provide the following features:
 - a. Drift Compensation to extend detector accuracy over life.
 - b. Sensitivity Test, meeting requirements of NFPA 72.
 - c. Maintenance Alert to warn of excessive compensation.
 - d. System Status Reports to display or printer.
 - e. Alarm Verification, with verification counters.
 - f. Non-Alarm points for general (non-fire) control.
 - g. Periodic Detector Test, conducted automatically by software.
 - h. Walk Test, with check for two detectors set to same address.
 - i. Control by Time for non-fire operations, with holidays.
 - j. Day/Night automatic adjustment of detector sensitivity.
- C. Control Panel Switches
 - 1. Acknowledge Switch
 - a. Activation of the control panel Acknowledge switch in response to new Alarms and/or Troubles shall silence the local panel piezo electric signal and change the Alarm and Trouble LEDs from flashing mode to steady ON mode. If multiple Alarm or Trouble conditions exist, depression of this switch shall advance the 80 character LCD display to the next Alarm or Trouble condition. Depression of the Acknowledge switch shall also silence all remote annunciator piezo sounders.
 - 2. Signal Silence Switch
 - a. Activation of the Signal Silence Switch shall cause all programmed Alarm Indicating Appliances and relays to return to the normal condition after an alarm condition. The selection of indicating circuits and relays that are silence able by this switch shall be fully field programmable within the confines of all applicable standards. The FACP software shall include silence inhibit and auto-silence timers.
 - 3. System Reset Switch

- a. Activation of the System Reset Switch shall cause all electronically latched initiating devices, appliances or software zones, as well as all associated output devices and circuits, to return to their normal condition. Holding the RESET switch shall perform a Lamp Test function.
- 4. Drill (Evacuate) Switch
 - a. Press and hold of the Drill switch shall activate all Indicating Appliance circuits. The Drill function shall latch until press of Signal Silence or Reset.
- D. SLC Loop Interface
 - 1. The SLC Interface shall provide power to, and communicate with, all of the Intelligent/Addressable Detectors and Addressable Modules over a single pair of wires.
 - 2. The Loop Interface Board shall receive analog information from all Intelligent Detectors that shall be processed to determine whether normal, alarm or trouble conditions exist for each detector. The software shall automatically maintain the detector's desired sensitivity level by adjusting for the effects of environmental factors, including the accumulation of dust in each detector. The analog information may also be used for automatic detector testing and for the automatic determination of detector maintenance requirements.
 - 3. The detector software shall meet NFPA 72 requirements and be certified by UL as a calibrated sensitivity test instrument.
 - 4. Provide dedicated loops as required to accommodate design requirements.
- E. System History Recording and Reporting
 - 1. The Fire Alarm Control Panel shall contain a History Buffer that will be capable of storing up to 400 system alarms/troubles/operator actions. Each of these activation's will be stored and time and date stamped with the actual time of the activation. The contents of the History Buffer may be manually reviewed, one event at a time.
 - 2. The History Buffer shall use non-volatile memory. Systems that use volatile memory for history storage are not acceptable.
- F. The Fire Alarm Control Panel shall include a full featured operator interface control and annunciation panel which shall include a backlit 80 character Liquid Crystal Display, individual, color coded system status LEDs and an alpha-numeric keypad for the Field Programming and Control of the Fire Alarm System.
- G. The remote fire alarm annunciator shall include a full featured operator interface control and annunciator panel which shall include a backlit 80-character liquid crystal display; individual color coded system status LEDs and an alpha-numeric keypad for the field programming and control of the fire alarm system. **Simplex #4606-9205.**
- H. Maintenance Functions
 - 1. Smoke Detector Sensitivity Adjust

- a. Means shall be provided for adjusting the sensitivity of any or all analog intelligent detectors in the system from the System keypad. Sensitivity range be will be within the allowed UL window and shall be HIGH/MEDIUM/LOW selection.
- 2. Alarm Verification
 - a. Each of the Intelligent/Addressable Smoke Detectors in the system shall be alarm verified. The Alarm Verification Function shall be from 5-50 seconds and each detector shall be able to be enabled/disabled during the field programming of the system, or any time after system turn-on.
- 3. Automatic Detector Maintenance Alert
 - a. The Fire Alarm Control Panel shall automatically interrogate each Intelligent Smoke Detector and shall analyze the detector responses over a period of time. If any Intelligent Smoke Detector in the system responds with a reading that is below or above normal limits, then the system will enter the Trouble Mode and the particular Detector will be annunciated on the System Display. This feature shall in no way inhibit the receipt of Alarm conditions in the system, nor shall it require any special hardware, special tools or computer expertise to perform.

2.3 FIELD DEVICES

- A. Addressable Manual Stations
 - 1. Addressable Manual Stations shall be provided to connect one addressable, supervised Manual Station to one of the Fire Alarm Control Panel Signaling Line Circuit (SLC) Loops. The Manual Station shall, on command from the Control Panel, send data to the panel representing the state of the manual switch. Manual Fire Alarm Stations shall be crush tube type with a key operated test-reset lock. **Simplex #4099-9006** as required.
- B. Automatic Fire Detectors
 - 1. Analog Addressable Photoelectric Type Smoke Detectors
 - a. The Photoelectric-Type Smoke Detectors shall be Intelligent and Addressable and shall connect with two wires to one of the Fire Alarm Control Panel Signaling Line Circuit Loops. The detectors shall use the light obscuration principal to measure products of combustion and shall, on command from the control panel, send data to the panel representing the analog level of products of combustion.
 - b. The detectors shall be ceiling-mount and shall include a twist-lock base. The detectors shall provide address-setting means on the detector head using rotary decimal switch and shall also store an internal identifying code which the control panel shall use to identify the type of detector. An output connection shall also be provided in the base to connect an external remote alarm LED. The detector sensitivity shall be set through the Fire Alarm Control Panel and shall be adjustable in the field through the field programming of the system. **Simplex #4098-9714 with #4098-9792 standard base.**
 - 2. Analog Addressable Duct Smoke Detectors

- Duct Smoke Detectors shall be addressable and analog photoelectric type devices enclosed in a duct type housing and supplied with sampling tubes sized for the duct. The detectors shall be Intelligent and Addressable and shall connect with two wires to the Fire Alarm Control Panel Signaling Line Circuit. The detector sensitivity shall be set through the Fire Alarm Control Panel and shall be adjustable in the field through the field programming of the system. Simplex #4098-9756 with weatherproof housing, sampling tubes, and #2098-9806 remote test switch station with indicator.
- 3. Analog Addressable Heat Detectors
 - a. The Intelligent Heat Detectors shall be Intelligent and Addressable and shall connect with two wires to one of the Fire Alarm Control Panel Signaling Line Circuit Loops. The detectors shall use an electronic sensor to measure thermal conditions caused by a fire and shall, on command from the control panel, send data to the panel representing the analog level of such thermal measurements.
 - b. The detectors shall be ceiling-mount and shall include a twist-lock base. The detectors shall provide address-setting means on the detector head using rotary decimal switch and shall also store an internal identifying code, which the control panel shall use to identify the type of detector. Simplex #4098-9733 with #4098-9792 standard base.
- C. Remote Fire Alarm Annunciator Panel (FAAP):
 - 1. The remote fire alarm annunciator shall include a full featured operator interface control and annunciator panel which shall include a backlit 80-character liquid crystal display; individual color coded system status LEDs and an alpha-numeric keypad for the field programming and control of the fire alarm system. **Simplex #4606-9205.**
- D. Control Module
 - 1. Control Modules shall be provided to supervise and control the operation of one signal circuit or as an addressable Dry Contact (Form C) Relay for elevator and air handler control. The Control Module shall provide address-setting means using rotary decimal switches and shall also store an internal identifying code which the Control Panel shall use to identify the type of device. **Simplex #4090-9010.**
- E. Monitor Module
 - Monitor modules shall be provided to connect any N.O. dry contact device (water flow, tamper switches and kitchen hood) to the Fire Alarm Control Panel Signaling Line Circuit Loop. The Monitor module shall provide address-setting means using rotary decimal switches and shall also store an internal identifying code which the Fire Alarm Control Panel shall use to identify the type of device. Simplex #4090-9001.
- F. Horn Strobes
 - 1. Audible signals shall be all-electronic and shall not require vibrating solenoids or contacts. They shall be 24 VDC polarized and meet UL 1971. Mounting shall be semi-

© 2024 SSC Engineering, Inc.		REVISED IN ADDENDUM 2
FGMA # 23-3773.01	FIRE ALARM SYSTEMS - ADDRESSABLE	26 07 21 - 7

flush using standard back boxes. The visual section shall be 24 VDC polarized Xenon strobe with FIRE lettering clearly visible. The horn shall include a high/low switch to provide100 dBA (high) or 94 dBA (low) sound pressure based on anechoic chamber measurements. Set on low volume setting in small rooms, stairwells and restrooms. The horn output shall be switch selectable between a continuous tone or Temporal Code 3 tone. Set tone to Temporal Code 3 pattern. Provide signals based on the following types (verify white housing is acceptable with AHJs prior to ordering.):

- a. Horn/ strobe with multi-candela output: Simplex #4906-9129 for wall mounted. #4906-9130 for ceiling mounted.
- b. Strobe light with multi-candela output: Simplex #4906-9103 for wall mounted. #4906-9104 for ceiling mounted.
- 2. Provide weatherproof appliance and back box when installed exterior to the building, within wet locations or wherever located outside the listed environment of the "standard" notification appliance. Simplex #4906-9131 horn/strobe with 49WPBB-AWWOWR back box.
- G. Magnetic Door Holders
 - Magnetic door holders shall be 120 VAC and 24 VAC/DC models with 35 to 40 pounds holding power. Magnet protected against transients and surges up to 600 volts (AC models). Magnetic field intensity of 5.6 oersteds and 1 meter. Fail-safe operation; power failure releases door to close. Floor and wall models and two year warranty. Holder shall be floor mounted or flush wall mounted by Sentrol or equivalent.
- H. Remote Power Supplies
 - Signaling appliance remote power supplies shall be UL listed for fire alarm signaling and provide 6 amps of 24 VDC power. The power supply shall include 4 style Y notification appliance circuits. Provide two (2) 7.0 amp hour batteries with each power supply. Remote power supply shall be Simplex #4009-9201. Provide as required for audible/visual signals.
 - 2. Provide with seismic restraint of batteries.
- I. Surge Protection Devices
 - 1. Where metallic fire alarm cabling leaves the building above or below grade to an exterior device, provide surge protection where the cabling exits the building. Where devices are mounted to an exterior wall and cabling does not extend past the building façade, surge protection may be omitted. Surge device shall be equivalent to Ditek.
- J. Central Monitoring Equipment shall be UL listed and include a commercial fire digital communicator complete with the following features:
 - 1. Meet NFPA 72 requirements for Digital Alarm Communicator Transmitter.
 - 2. Capable of seizing the proper communication method at the protected premises, disconnecting an outgoing or incoming call and preventing its use until signal transmission has been completed.

- 3. Contain a minimum of 4 channels.
- 4. Connected to two separate communication methods at protected premises.
- 5. Capable of selecting the operable communication method in the event of a failure on either method.
- 6. Programmed to utilize the alternate method should the signal transmission be unsuccessful.
- 7. Equipped with battery pack, charger, telephone jack and dedicated 120 VAC receptacle.
- 8. The digital communicator shall be connected to the fire alarm system to receive and transmit alarm signals, trouble conditions and supervisory conditions. Monitoring service and communicator programming shall be furnished by owners monitoring company.
- 9. Provide a dual path communicator module/device that utilizes IP communication and cellular (GSM or CDMA) communication. Provide programming, cables and connectors as required. Owner to provide active data port.

PART 3 - EXECUTION

3.1 POWER SOURCE

- A. The Fire Alarm Control Panel shall be connected to a separate dedicated 120 volt, 20 Amp branch circuit. This circuit shall be labeled at the Electrical Panel as FIRE ALARM.
- B. The fire alarm remote power supplies shall be connected to a dedicated 120 volt, 20 amp branch circuit labeled as FIRE ALARM. Provide required quantities of power supplies and circuits as required.

3.2 WIRING

- A. Wiring will be as required by the Equipment Supplier. Wire color coding and the color shall remain the same throughout the system. In general, all initiating devices such as manual stations, thermal detectors and smoke detectors shall be installed across a common #18 AWG twisted shielded pair. The signal circuits shall require #14 AWG. All system wiring shall be plenum rated wire. The ground will be minimum one #6 AWG insulated copper. Provide conduit with insulated bushing in wall from device up to accessible ceiling.
- B. Provide surge protection devices on all circuits that enter the building from the exterior. Surge suppression shall be equivalent to Ditek.

3.3 TESTING

- A. The operation of the Fire Alarm System shall be checked by a representative of the equipment supplier. At the final inspection, a factory-trained representative of the manufacturer of the equipment shall demonstrate that the system functions properly in every respect. A report describing the test results shall be submitted to the Engineer.
- B. The system will not be accepted until final testing and receipt of the NFPA 72 Inspection and Testing Form has been obtained and approved.
- C. System shall be tested and installed to maintain the UL "UUFX" listing as required by the AHJ, Fire Protection District or Fire Department.

3.4 INSTRUCTION

- A. Instruction shall be provided as required for operating the system. Hands-on demonstrations of the operation of all system including changes and functions shall be provided.
- B. The contractor and/or the systems manufacture's representatives shall provide a type written "sequence of operation" to allow the owner to silence reset and acknowledge the fire alarm control panel.
- C. Provide a minimum of eight (8) hours training for staff personnel in the operation and maintenance of the system.

3.5 INSTALLATION

- A. In order to assure compliance with the NFPA Standards and manufacturers requirements the fire alarm equipment supplier to the electrical contractor must perform the following functions:
 - 1. Install and connect each and every detector, signaling appliance, pull station, control/monitor module, annunciator etc., excluding the rough-in and cabling between the devices.
 - 2. The electrical contractor shall install rough-in and cable between rough-in points as required by the fire alarm system supplier. Rough-in includes control panel back boxes, remote power supply back boxes and digital communicator back boxes.
 - 3. The electrical contractor shall provide any conduit, all required back boxes, 120 volt power and connections of the 120 volt power as required by the fire alarm equipment supplier to meet the functionality specified herein.
 - 4. Subcontracting by the fire alarm equipment provider to perform the field device installation and connections is not acceptable.
 - 5. Open conductors and conduits shall be supported in a manner and at intervals compliant with NEC requirements. Conductors and conduits installed above lay-in ceilings shall be supported from the building structure and shall not be permitted less than 9-inches above or behind removable panels or ceiling tiles.
 - 6. All wires shall be tagged at all junction points and shall test free from grounds or crosses between conductors.
 - 7. No other conductors shall be installed in conduits with conductors for the fire alarm system.
 - 8. Smoke detectors shall be protected from construction dust until after the construction clean-up of all trades is complete and final. Detectors that have not been protected prior to final clean-up by all trades shall be cleaned or replaced.
 - 9. A UL Certificate or FM Placard, per NFPA 72, shall be issued by the UL Listed or FM Approved contractor for all newly installed, required fire alarm systems.

B. Equipment Mounting

- 1. The control panel shall be flush mounted with no operational parts which may require maintenance mounted greater than 72-inches above the finished floor. The control panel annunciator shall be mounted so that no switch, manually operated device, display or LED is greater than 60-inches above the finished floor.
- 2. Duct detectors shall be provided under this section and will be mounted by the HVAC contractor at the supply side of all HVAC units of 2,000 cfm or greater and at the return side of all HVAC units of 2,000 cfm or greater per NFPA 90A and IMC, or as shown on the drawings. Supervise and coordinate placement by HVAC contractor and connect all circuits. Duct detectors shall be mounted in such a way as to obtain a representative sample of the airstream. The duct detectors shall be located in the zone between 6 and 10 duct widths from any duct bends or inlets. When located at duct openings, use spot detectors mounted as required by NFPA 72 for duct openings. Detectors shall be accessible for cleaning and shall be mounted in accordance with the manufacturer's instructions and NFPA standards.
- 3. At each smoke or fire smoke damper provide a spot detector pendant mounted in the duct with an access panel for maintenance and testing.
- 4. All HVAC equipment shutdown and smoke control functions shall be initiated by addressable control module interface with the EMS system. Relays shall be mounted within three (3) feet of the EMS interface equipment.
- 5. The remote annunciator shall be mounted so that no switch, manually operated device, display, or LED is greater than 60-inches above the finished floor.
- 6. The manual pull station(s) shall be securely mounted with the operable part of the manual pull station at 46-inches above the finished floor.
- 7. Wall mounted audible/visual, audible and/or visual devices shall be mounted with their bottoms at 80-inches above the finished floor or 6-inches below the ceiling, whichever is lower.
- 8. Ceiling mounted audible/visual, audible and/or visual devices shall be mounted where shown on the drawings with their visual lenses having an unobstructed line of site in all directions. Exact locations of devices shall be sufficiently distant from vertical surfaces and hanging items to permit maximum viewing from all directions.
- 9. Weatherproof audible/visual notification device shall be mounted at the fire department connection on the building exterior and with the final location as acceptable to the AHJ.
- 10. Devices shall not be supported by ceiling tiles. Devices must be attached to a back-box supported by the ceiling grid.
- 11. At each door (man, overhead, counter, etc.) with magnetic hold opens, provide smoke detector(s) located in accordance with NFPA 72, whether shown on plans or not.
- 12. Provide seismic restraints of equipment and batteries per the criteria in section 260025.

© 2024 SSC Engineering, Inc.	
FGMA # 23-3773.01	

FIRE ALARM SYSTEMS - ADDRESSABLE

- C. Painting and Patching
 - 1. All fire alarm conduit shall be thoroughly cleaned, removing all dirt, oil, etc. and made ready to receive paint.
 - 2. Holes in walls or floors cut during the performance of this work shall be patched or covered with standard escutcheon plates so as to completely conceal the cuts where they would otherwise be exposed to view.
 - 3. Firestop all penetrations of fire rated assemblies.

END OF SECTION 260721

SECTION 26 09 50 - SOUND REINFORCEMENT

PART 1 - GENERAL

1.1 CONTRACT DOCUMENTS

- A. It is the purpose of this specification to require the contractor to provide the highest quality materials, equipment, and workmanship. The work shall be completed in accordance with this specification and in conformance with the layouts, descriptions, and details shown on the contract drawings. It shall be the responsibility of each bidder to verify all conditions and dimensions which pertain to this work. It is the intention of these specifications to provide complete and properly operating Sound Reinforcement System. The major items of equipment shall be furnished in the quantity shown, whether the item is shown on the schematic drawings, floor plans, or listed in the specification. Any minor item of equipment or hardware not specifically shown but required for the safe and proper operation of the Sound Reinforcement system shall be provided by the Contractor. All substitutions (including substitutions caused because a specified item has become obsolete or does not meet the project schedule) shall be approved by the Engineer at least 10 days prior to the date that bids are due.
- B. Work under this contract includes all labor, materials, tools, transportation services, field coordination, etc., necessary to complete the installation of the Sound Reinforcement systems as described in this specification and as illustrated on the drawings.

1.2 CONTRACTOR QUALIFICATION

- A. The Sound Contractor shall be a contractor who has regularly furnished and installed commercial Sound Reinforcement systems of the type specified for a minimum of the last 5 years.
- B. The Sound Contractor shall maintain a suitably staffed and equipped service organization and shall regularly offer maintenance services for systems of this type and size. The Sound Contractor shall have local service representatives within a 100-mile radius of the project site.
- C. The Sound Contractor shall be an authorized dealer of all equipment provided with this system. Given the inherent warranty difficulties which occur when products are provided from contractors who participate in trans-shipping or two-stepped equipment sales, this dealership requirement will be strictly adhered to. At the request of the Owner or Architect, any contractor responding to this bid proposal shall provide proof of dealership status for all listed system components or approved alternates. Failure to comply with this request will be grounds for bid rejection.
- D. At the request of the Owner or Architect, an inspection of the Sound/AV contractor's place of business shall be scheduled to demonstrate that the contractor possesses adequate plant and equipment to complete the work properly and in a timely manner, adequate staff with sufficient technical experience, and suitable financial status to meet the obligations of the contract.

© 2024 SSC Engineering, Inc. **FGMA #** 23-3773.01

SOUND REINFORCEMENT

- E. The Sound Contractor shall have a programmer on staff who has received factory training from the manufacturer to program the digital signal processing system provided, and who has received factory certification of same. At the request of the Owner or Architect, any contractor responding to this bid proposal shall provide proof of certified factory programming training for listed control equipment. A factory authorized independent programmer (i.e., Crestron Master CAIP) will also be accepted. Failure to comply with this request will be grounds for bid rejection.
- F. An Electrical Contractor or any other contractor who does not meet the requirements listed above who intends to bid on this work will be required to employ the services of a qualified "Sound System/AV Sub-Contractor". The "Sound System/AV Sub-Contractor" shall be named in the shop drawing submittal information along with written documentation verifying that the sub-contractor fulfills all requirements listed in 1.2 A through E.

1.3 PERMITS AND CODES

- A. All materials and equipment are to be installed in accordance with all applicable standards of the National Electrical Code, the electrical code of the governing local municipality, all other applicable local codes, and all safety codes and ordinances.
- B. All equipment supplied for this system shall be UL listed.
- C. All bidders will be required to provide all required local electrical permits.

1.4 SOUND CONTRACTOR'S SCOPE OF WORK

- A. Included in this contract the Sound/AV contractor shall provide:
 - 1. All major items of Sound Reinforcement equipment as specified.
 - 2. All miscellaneous items required for a complete and operating system.
 - 3. Shop fabrication of all equipment cabinets, outlet plates and panels, and subassemblies.
 - 4. All low voltage control equipment.
 - 5. All cables and outlet plates.
 - 6. Preparation of drawings & documentation required by the specification.
 - 7. Initial tests and adjustment.
 - 8. Instruction of owner's operating personnel.
 - 9. Preparation of the owner's manuals.
 - 10. Maintenance services and warranty.
- B. The Sound/AV contractor is responsible for the following related work:
 - 1. Supply accessories and minor equipment items needed for a complete system, even if not specifically mentioned herein or on the drawings, without claim for additional payment.
 - 2. Cooperate with all trades present in the building, so lost time, work stoppages, interference, and work inefficiencies do not occur. Assure labor "harmony" among personnel and subcontractors, and with other trades associated with construction, delivery, installation, and testing of the facility.

© 2024 SSC Engineering, Inc. **FGMA #** 23-3773.01

SOUND REINFORCEMENT

3. Provide detailed drawings sealed by a professional structural engineer for proposed loudspeaker mounting including hardware, method of attachment, weights, suspension locations and load calculations. Complete detailed drawings will be provided for evaluation by the owner prior to the installation of any speakers.

1.5 SUBMITTALS

- A. Shop drawings and submittal data shall contain sufficient information to describe the work to be performed. Prepare drawings at an appropriate scale and submit with the material submittal package. The required information shall include but not be limited to:
 - 1. Written verification of the "Sound System/AV Sub-Contractor" qualifications as required in PART 1 section 1.2, F.
 - 2. Wiring diagrams for each system including wire types.
 - 3. Rack drawings showing proposed rack layout.
 - 4. Rough-in information including power requirements.
 - 5. Layout of all custom plates outlet plates/panels.
 - 6. Layout of all custom engraved labels.
 - 7. A material list of all equipment to be furnished (arranged in specification order).
 - 8. Manufacturer's specification sheets of all equipment proposed to be provided.

1.6 RECORD DOCUMENTATION

- A. Submit as-built drawings as described below:
 - 1. The Sound/AV contractor shall maintain one complete set of drawings at the job site at all times throughout this project. Submit 1 corrected as-built set of drawings showing the work as installed to the architect at the completion of the project.

1.7 OWNER'S MANUALS

- A. Submit 2 sets of owner's manuals to the owner's representative during customer training. Each set shall contain the following:
 - 1. A list of major equipment items contained in the system.
 - 2. The manufacturer's instruction manual for each piece of major equipment.

1.8 WARRANTY

- A. The Sound/AV contractor shall warrant this system to be free from defects in material and workmanship for not less than one year after the date of substantial completion.
- B. This warranty shall be in addition to any manufacturer's warranties which may stay in effect for greater than one year.
- 1.9 SITE CONDITIONS
 - A. This specification and the contract drawings show equipment fitting in the space available without interference based upon the preliminary architectural information available. If conditions exist at the job site which makes it impossible to install the work as shown,

```
© 2024 SSC Engineering, Inc.
```

ADDED IN ADDENDUM 2 26 09 50 - 3 recommend alternatives and or solutions to the conflict in writing to the architect for approval before installation.

PART 2 - PRODUCTS

- 2.1 INSTALLATION TECHNIQUES
 - A. Suspended Equipment
 - 1. Mount equipment and enclosures plumb and square. Permanently installed equipment to be firmly and safely held in place with an extra safety cable used where possible. Design equipment supports with a safety factor of at least five for any overhead loudspeakers or other suspended equipment.
 - 2. Comply with seismic restraints as required per 260025.
 - B. AC Power and Grounding
 - Equipment racks shall be grounded only to the feeding electrical panel via a #6 insulated green ground cable. (ground cable provided and installed by the electrical contractor) Racks shall not otherwise connect to the building structural steel. Insulated bushings shall be used to assure that there is no electrical connection between the racks and the building conduit system.
 - C. Equipment Racks
 - 1. Cable within the equipment racks shall be separated and routed in groups according to function (mic cables, line level cables, control cables, speaker level cables, and 120 volt AC power circuits). Cable shall be neatly arranged using plastic cable ties or plastic wiring duct with covers. Tight bundling (making modifications difficult) shall be avoided.
 - 2. Provide ventilation adequate to keep temperature within the equipment racks below 90 degrees with power on for 8 continuous hours. (Assuming proper building air conditioning and normal room temperatures).
 - D. Cable Marking
 - 1. Each cable shall be properly identified at each end using suitable wrap-around or other permanent labeling method. All cable numbers shall be marked on the record drawings for future reference.
 - E. Cable Installation
 - 1. Unless otherwise noted, all Sound/AV system cable shall be installed in conduit.
 - 2. Take precautions to prevent electromagnetic and electrostatic hum pickup in the system wiring. For line level audio signals, float cable shields at the output of the source device. Shields not connected are to be folded back over the cable jacket and covered with heat shrink tubing for future use. Do not cut off unused shields.
 - 3. Isolate cable of different signal levels in different bundles or different conduits such as mic level, line level, control, speaker level, AC power, and video.

© 2024 SSC Engineering, Inc. **FGMA #** 23-3773.01

SOUND REINFORCEMENT

- 4. Use plenum rated cable in plenum spaces, and direct burial cable in underground conduit.
- 5. Make joints and connections using rosin-core solder or mechanical connectors. Tape splices will not be acceptable. Spade lugs mounted on 22 gauge or smaller mic or line level cables are to be soldered after crimping. Any splice in line level cables is to be made with soldered spade lugs on Cinch 140 or 142 series barrier strips. No splices are acceptable in mic level cables. Barrier strips are to be mounted on 3/4 inch plywood painted flat black. All barrier strips are to be well marked as to the function of the connecting cables.

2.2 SYSTEM TESTING PROCEDURE

- A. Check all cables to make sure that no conductor in any cable is shorted to shield or to ground.
- B. Verify that all mic or balanced line level cables are free from shorts from pin #2 to pin #3 (high conductor to low conductor); or pin #2 or pin #3 to pin #1 (high or low conductor to shield).
- C. Using a 1KHz impedance meter, check the impedance of all speaker lines at the point they would connect to the power amplifier. Use 400Hz for low frequency speakers in biamplified or triamplified systems, and 100Hz for subwoofers. (Take these readings with all speakers connected and all speaker volume controls turned all the way up) Verify that the impedance on each line does not indicate a condition under which the power amplifier would be overloaded.
- D. Check all AC receptacles feeding the Sound Reinforcement systems to make sure the voltage of each is 110 VAC or greater, that the hot, neutral, and ground appear at the correct pins. Check to see that the system is truly grounded with an isolated ground through the ground isolated duplex receptacles to the local panel. Make sure that the equipment rack is receiving no other grounds through conduit or other building structural steel.
- E. Verify that all input and output jacks are labeled with the specified labels.
- F. Verify that all active equipment in the racks has been labeled on the front and rear. Verify that all user operated controls have been labeled so that an operator unfamiliar with the system can identify the proper controls for user adjustment.

2.3 SYSTEM TRAINING/DEMONSTRATION

- A. Train owner's operating personnel in the proper set up, operating and maintenance procedures for the systems installed under this contract, by providing a minimum of two (2) four-hour training sessions. Contractor shall include at least two (2) system inspections, one at 6 months after acceptance and the other at 12 months after acceptance, during the warranty period, for service or instructions as required by the Owner, at a time mutually agreeable to the Owner and Contractor
- 2.4 SYSTEM DESCRIPTIONS
 - A. Paging/BGM System:

© 2024 SSC Engineering, Inc. **FGMA #** 23-3773.01

SOUND REINFORCEMENT

- 1. A Sound System main equipment rack for sound equipment. Rack to have fully vented front door, 8-outlet surge suppressor power strip dedicated for sound equipment and 1RU vents between pieces of sound equipment.
- 2. A wireless microphone system with receiver located in the rack and wireless handheld microphone transmitter to initiate pages to specific or all zones. Connect the wireless microphone receiver into input 2 on the mixer and connect the audio player into input 3 on the mixer. Ensure that the antennas of the wireless microphone receiver are positioned to ensure reliable reception of microphone transmitters throughout the pool area, including any antenna extensions and antenna amplifiers required.
- 3. A multi-format audio player
- 4. An 8 x 2 audio matrix mixer
- 5. A 2 x 800W power amplifier
- 6. A push-to-talk desktop microphone (total of 2 one in Manager Office A120 and one in Concession A117) plugged into a 4-pin XLR microphone jack in each room. These microphones have contact closure circuits and shall be wired (microphone circuit and priority relay circuit) into input 1 and input 5 on the mixer.
- 7. Furnish and install on the outside of the main building a total of four (4) outdoor rated 8-inch two-way loudspeakers with wall mounts. The speakers shall be located on the east side of the buildings as indicated on the building plan. Provide four lightning arrestors, one where each speaker cable enters the building. Provide also 100W rackmounted volume controls for the speakers.
- 8. All the outdoor speakers shall be on output 1 of the amplifier.
- 9. The volume controls shall be installed into a rack plate for volume control inserts.
- 10. Furnish and install all microphone cabling, speaker cabling, and miscellaneous other low voltage cabling as needed for a fully functional system.
- 11. All equipment shall be the manufacturer and model numbers included in these specifications. Any requests for exceptions must be approved by the specifying engineer.

BILL OF MATERIAL:

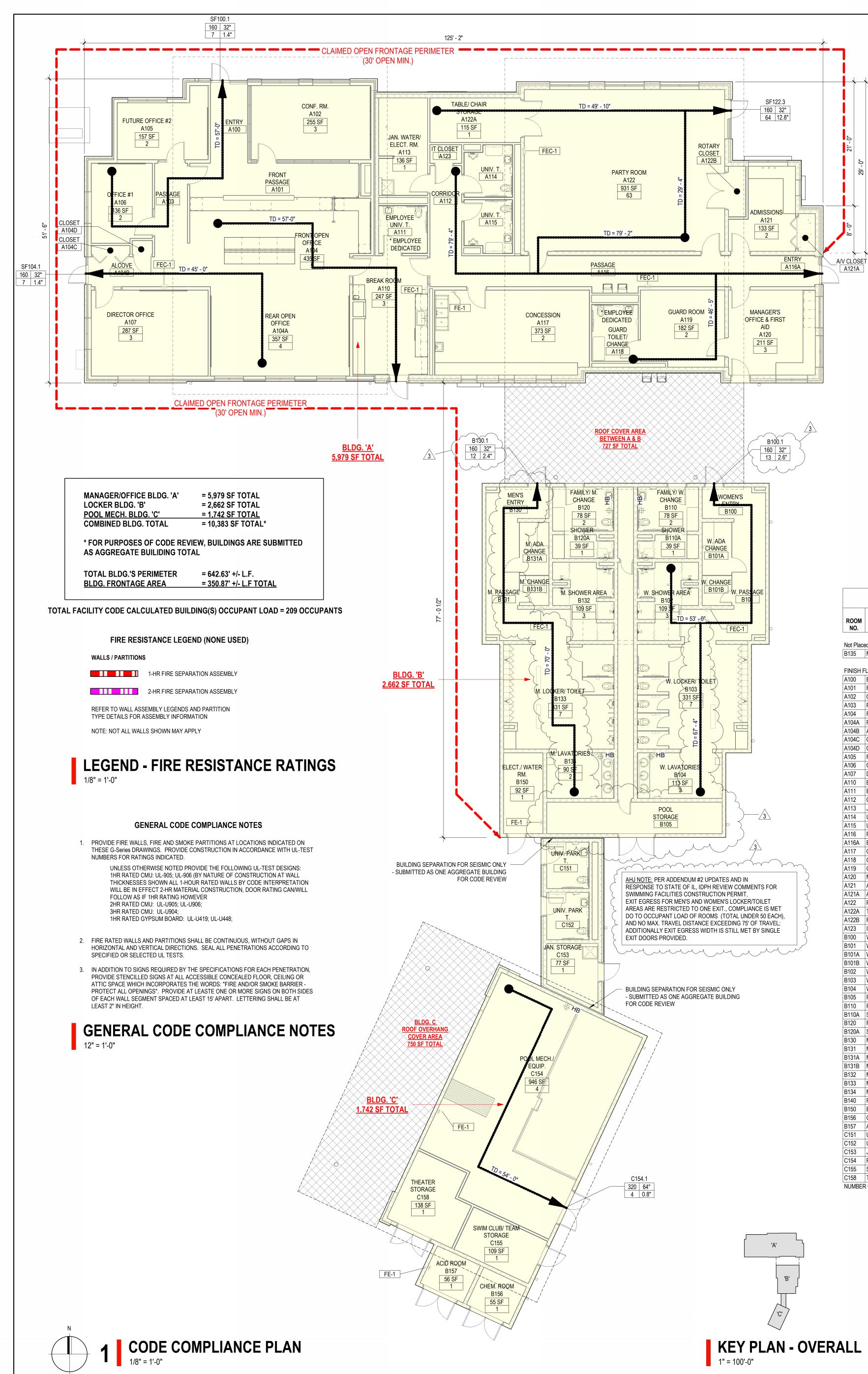
Qty.	MFG/Part Number	Description		
1 Middle Atlantic/WRK-37SA-32		Floor mounted, seismic rated 37RU, 24"Wx32"D, open rear		
1	Middle Atlantic/VFD-37	Vented front door,25% open, 37RU, black, 1 pair r	ails	
1	Middle Atlantic/MW-VT	Vented top panel		
1	Wiremold/R8BZ-15	Power Strip, 8x 15A, 1RU, Surge Suppressor , 15' (Cord	
1	Shure/QLXD24/SM58	Wireless Handheld Microphone System, SM58		
1 Denon/DN-500CB		Audio Player, CD, USB, 1/8" Aux, Bluetooth, Balan	ced,	
		RS232, Pitch Control		
1	JBL/NCSM28-U-US	Mixer with 8 Inputs and 2 Outputs, 1RU Full rack		
1	Crown/CDI2000	Amplifier, Dual Channel, 475W/Ch @ 8 ohms, 800W/Ch @		
		4 ohms or 70 Volts		
2	Astatic/878HL-2	Omnidirectional Dynamic Desktop Microphone with the second s	ith PTT	
		Switch. Provide with male 4-pin XLR connector		
2	Liberty/T00050-WQ531396	Plate, 1 gang, XLR4-F Jack to Solder, Anodized Alu	minum	
© 2024 SSC Engineering, Inc.		ADDED IN ADDEI	NDUM 2	
FGMA #	\$ 23-3773.01	SOUND REINFORCEMENT 26 09 50 - 6		

4	Community/R.35-3896	Loudspeaker, Full-range3-way, 8-inch, 90x60, grey, weather-resistant
4	Grommes-Precision /SLS	Speaker Lightning Suppressor, 10A
4	Atlas/AT100-RM	Deluxe Rack Mounted 100W Attenuator, 3dB steps
1	Atlas/ATPLATE-052	2RU Plate, Pre-punched for 6 Attenuators
As Req'd	Various	Cables for speakers, microphones, data, RS232, Low
		Voltage devices/equipment, etc.

Verify all quantities listed and provide the higher quantity between plans, specs and those required.

END OF SECTION 260950

This page left intentionally blank.



H: 1U: 49 PM 1p\2022\23-56M ABCUILD /28/2024 ::\revit ter

ASSEMBLY PLACES (PARTY ROOM) = 931/ 50 GF STORAGE/SHIPPING PLACES (STORAGE & OTHER) = 308/ 400 G OFFICE BUILDINGS (OFFICES, CONCESSION ETC. = 2,783/ 200 TOTAL BUILDING OCCUPANT LOAD PLUMBING COUNT = 33 OCCUF * BUSINESS OCCUPANCY HAS EMPLOYEE COUNT GREATER THAN 5, THEREFORE 2 [IDPH, BUILDING PLUMBING FIXTURE REQUIREMENTS (TITLE 77, SECTION 890, APF MALE (FIXTURES REQUIRED) OCCUPANT LOAD TOILETS URINALS LAVATORIES SHOWERS 2 SEE NOTE* 2 17 EACH SEX * URINAL CAN BE SUBSTITUTED FOR WATER CLOSETS FOR MALES, NOT TO EXCEED HALF THE REQUIRED TOTAL NUMBER OF WATER CLOSESTS. TOTAL PLUMBING FIXTURES PROVIDED FOR OFFICE/ PUBLIC BLDG. USE MALE (PROVIDED OVERALL OTHER FIXTURES TOILETS URINALS LAVATORIES SHOWERS D.F. (HI/LOW) SERV. SINK 1* 2 2 1 FEMALE (PROVIDED OVERALL * ADDITIONAL ADA SINGLE E.W.C. PROVIDED N/A LAVATORIES SHOWERS 2

PLUMBING CODE FIXTURE CALCULATIONS 12" = 1'-0"

BUILDING BATHER LOAD PLUMBING FIXTURE COUNT/ OCCUPANCY (SECTION 820) - FOR BLDG. 'B'

IDPH, BATHER LOAD PLUMBING FIXTURE REQUIREMENTS (TITLE 77, SECTION 820, APPENDIX B, TABLE E)												
MALE (FIXTURES REQUIRED) FEMALE (FIXTURES REQUIRED)												
BATHE	R LOAD	TOILETS	URINALS	LAVATORIES	SHOWERS	TOILETS	LAV	ATORIES	SHOWERS			
501 -	1000*	3	3	2	6	6		2	6			
* CALC	* CALCULATED OVERALL FACILITY BATHER LOAD = 623 BATHER LOAD											
	PROJEC	T BATHER LO	AD PLUMBING	FIXTURES PR	OVIDED			TOTAL PI	UMBING FIX	TURE	S PROVIDED F	OR BATHERS
(MAL	E) MEN LOCK	ER/ TOILET RC	MOM	FAMILY/	MEN CHANGE	(MALE)		MALE (PROVIDED OVERALL)				
TOILETS	URINALS	LAVATORIES	SHOWERS	TOILETS	LAVATORIES	SHOWERS		TOILET	S URINA	ALS	LAVATORIES	SHOWERS
2	3	2	5	1	1	1		3	3		3	6
(FEMAL	E) WOMEN LO	CKER/ TOILET	ROOM	FAMILY/ WO	OMEN CHANGE	E (FEMALE)			FEMALE (I	PROV	IDED OVERALL	.)
TOILETS	N/A	LAVATORIES	SHOWERS	TOILETS	LAVATORIES	SHOWERS		TOILET	'S N/A	١	LAVATORIES	SHOWERS
5	-	2	5	1	1	1		6	_		3	6
* FROM BATHER LOAD PLAN DETAIL 2/A0.4, CALCULATED MASTER PLAN BATHER LOAD (FIXTURES PROVIDED CALCULATED FOR 623 BATHERS)												

PLUMBING IDPH FIXTURE CALCULATIONS 12" = 1'-0"

OCCUPANCY ROOM SC

		ROOM OCCUPANCY				
ROOM NO.	ROOM NAME	ROOM NET AREA (S.F.)	OCCUPANCY TYPE	SF TYPE	SF PER PERSON	ROOM OCC. LOAD (CALCULATED)
Not Place	ad					
	M. ENTRY	Not Placed	UNOCCUPIED SPACES	GROSS	0	
FINISH F			Γ		1	
	ENTRY		UNOCCUPIED SPACES	GROSS	0	
A101 A102	FRONT PASSAGE CONF. RM.		UNOCCUPIED SPACES BUSINESS AREAS	GROSS GROSS	0	
A102	PASSAGE		UNOCCUPIED SPACES	GROSS	0	
A104	FRONT OPEN OFFICE		BUSINESS AREAS	GROSS	100	
A104A	REAR OPEN OFFICE		BUSINESS AREAS	GROSS	100	
A104B	ALCOVE		UNOCCUPIED SPACES	GROSS	0	
A104C	CLOSET		UNOCCUPIED SPACES	GROSS	0	
A104D	CLOSET		UNOCCUPIED SPACES	GROSS	0	
A105	FUTURE OFFICE #2		BUSINESS AREAS	GROSS	100	
A106 A107	OFFICE #1 DIRECTOR OFFICE		BUSINESS AREAS BUSINESS AREAS	GROSS GROSS	100 100	
A107 A110	BREAK ROOM		BUSINESS AREAS	GROSS	100	
A111	EMPLOYEE UNIV. T.		UNOCCUPIED SPACES	GROSS	0	
A112	CORRIDOR		UNOCCUPIED SPACES	GROSS	0	
A113	JAN. WATER/ ELECT. RM.	136 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	GROSS	300	
A114	UNIV. T.		UNOCCUPIED SPACES	GROSS	0	
A115	UNIV. T.		UNOCCUPIED SPACES	GROSS	0	
A116	PASSAGE		UNOCCUPIED SPACES	GROSS	0	
A116A	ENTRY		UNOCCUPIED SPACES	GROSS	0	
A117				GROSS	200	
A118 A119	GUARD TOILET/ CHANGE		UNOCCUPIED SPACES BUSINESS AREAS	GROSS GROSS	0	
A119 A120	MANAGER'S OFFICE & FIRST AID		BUSINESS AREAS	GROSS	100	
A121	ADMISSIONS		BUSINESS AREAS	GROSS	100	
A121A	A/V CLOSET		UNOCCUPIED SPACES	GROSS	0	
A122	PARTY ROOM	931 SF	ASSEMBLY - WITHOUT FIXED SEATING - UNCONCENTRATED (TABLES & CHAIRS)	NET	15	6
A122A	TABLE/ CHAIR STORAGE	115 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	GROSS	300	
A122B	ROTARY CLOSET		UNOCCUPIED SPACES	GROSS	0	
A123	IT CLOSET		UNOCCUPIED SPACES	GROSS	0	
B100	WOMEN'S ENTRY		UNOCCUPIED SPACES	GROSS	0	
B101	W. PASSAGE			GROSS	0	
B101A B101B	W. ADA CHANGE W. CHANGE		UNOCCUPIED SPACES UNOCCUPIED SPACES	GROSS GROSS	0	
B101D B102	W. SHOWER AREA		EXERCISE ROOMS	GROSS	50	
B103	W. LOCKER/ TOILET		EXERCISE ROOMS	GROSS	50	
B104	W. LAVATORIES		EXERCISE ROOMS	GROSS	50	
B105	POOL STORAGE	159 SF	UNOCCUPIED SPACES	GROSS	0	
B110	FAMILY/ W. CHANGE		EXERCISE ROOMS	GROSS	50	
B110A	SHOWER		EXERCISE ROOMS	GROSS	50	
B120	FAMILY/ M. CHANGE		EXERCISE ROOMS	GROSS	50	
B120A	SHOWER		EXERCISE ROOMS	GROSS	50	
B130 B131	MEN'S ENTRY M. PASSAGE		UNOCCUPIED SPACES UNOCCUPIED SPACES	GROSS GROSS	0	
B131A	M. ADA CHANGE		UNOCCUPIED SPACES	GROSS	0	
B131B	M. CHANGE		UNOCCUPIED SPACES	GROSS	0	
B132	M. SHOWER AREA		EXERCISE ROOMS	GROSS	50	
B133	M. LOCKER/ TOILET	331 SF	EXERCISE ROOMS	GROSS	50	
	M. LAVATORIES		EXERCISE ROOMS	GROSS	50	
	P. CHASE		UNOCCUPIED SPACES	GROSS	0	
B150	ELECT./ WATER RM.		ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	GROSS	300	
B156	CHEM. ROOM		ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	GROSS	300	
B157 C151	ACID ROOM UNIV. PARK T.		ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM UNOCCUPIED SPACES	GROSS GROSS	300	
C151 C152	UNIV. PARK T.		UNOCCUPIED SPACES	GROSS	0	
C152	JAN. STORAGE		ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	GROSS	300	
C154	POOL MECH./ EQUIP.		ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	GROSS	300	
C155	SWIM CLUB/ TEAM STORAGE					CCUPANTS:
C158	THEATER STORAGE		ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	GROSS	300	
	R OF ROOMS: 60					13

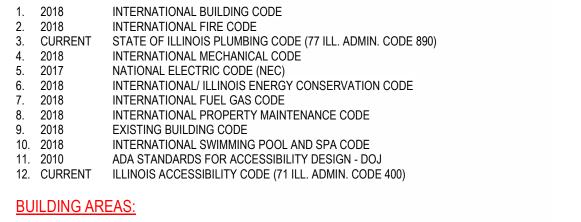
BUILDING PLUMBING FIXTURE COUNT/ OCCUPANCY (SECTION 890.810) - FOR BLDG. 'A'

ROSS = 19 GROSS = 1 <u>0 GROSS = 14</u> PANTS (BLDG. A) (17 MEN/ 17 WOMEN)
DEDICATED EMPLOYEE TOILET ROOMS (MIN.) ARE ALLOWED FOR

PENDIX A, TABLE B) FOR OFFICE BUILDINGS/ PUBLIC BUILDINGS:						
FEMALE (FIXTURES REQUIRED) OTHER FIXTURES						
TOILETS LAVATORIES SHOWERS D.F. (HI/LOW) SERV. SINK				SERV. SINK		
2 2 - 1 PER 75 (2) 1						

СН	ED	UL	Е	

O'FALLON, IL (AHJ - CITY) APPLICABLE CODES



GROUND FLOOR GROSS ENCLOSED AREA: 10,383 SF = FOOTPRINT AREA (COMBINED TOTAL) 5,979 SF = FOOTPRINT AREA MANAGER/ OFFICE BLDG. 'A' ONLY: LOCKER BLDG. 'B' ONLY: 2,662 SF = FOOTPRINT AREA POOL MECH. BLDG. ' C' ONLY: 1,742 SF = FOOTPRINT AREA

NOTE: GROSS SQUARE FOOTAGE (GSF) IS CALCULATED FROM THE OUTSIDE OF THE EXTERIOR WALLS

* BOTH BUILDINGS ON THE SAME LOT ARE SUBMITTED AND FOR CODE REVIEW AS PORTIONS OF ONE AGGREGATE BUILDING FOR CODE (SECTION 503.1.2)

CODE COMPLIANCE NOTES:

- 1. PRIMARY BUILDING OCCUPANCY GROUP: ASSEMBLY GROUP A-3 (SECTION 303.1, 303.4) - MOST RESTRICTIVE USE GROUP/ NONSEPERATED OCCUPANCIES (SECTION 508.3.2)
- A. NONSEPARATED BUILDING OCUPANCY GROUPS: BUSINESS B (SECTION 304.1) STORAGE S-1 - MODERATE-HAZARD STORAGE (SECTION 311.2)
- B. NONSEPARATED OCCUPANCIES: YES, DESIGN IS SUBMITTED AS NONSEPARATED OCCUPANCIES (508.3, 508.3.2) . MEZZANINE: NO
- D. CONSTRUCTION TYPE: NEW CONSTRUCTION, BUILDING TYPE: TYPE IIB (2B), (TABLES 504.3, 504.4, 601)
- F. FIRE PROTECTION SYSTEMS: NO AUTOMATIC SPRINKLER SYSTEM

1A. OCCUPANCY CLASSIFICATIONS: (SECTIONS 302-312, 508.2.1): A. ACCESSORY OCCUPANCIES (SECTION 508.2): JAN., TABLE/ CHAIR STORAGE, WATER/ ELECT. ROOMS B. INCIDENTAL USE AREAS (TABLE 509.1): NONE

* NOTE: ASSEMBLY SPACES SUCH AS THE ADMISSIONS, GUARD ROOM, BREAK RM., MANAGER'S OFFICE, DO NOT CONSTITUTE SEPARATE OCCUPANCIES FOR THE PURPOSE OF MIXED USE CALCULATIONS SINCE THEIR ROOM SIZE IS UNDER 750 SQUARE FEET IN AREA (PER SECTION 303.1.2).

2. AREA CALCULATIONS, NON-SEPARATED MIXED USE TABLE 506 2 A-3 MOST RESTRICTIVE USE GROU

(TABLE 506.2, A-3, MOST	RESTRICTIVE USE GROUP)	
TOTAL OPEN FRONTAGE (F) TOTAL PERIMETER (P)	<u>642.63</u> FT. <u>350.87</u> FT. (506.3)	
WIDTH OF OPEN SPACE (W)	<u>30</u> FT.	

AREA INCREASE FACTOR DUE TO FRONTAGE: I = [F/P-0.25] W/30

I = [350.87/642.63 - 0.25] 30/30 = 0.296

TABULAR AREA :	1 x 9,500	=	9,500 SF (2B, NON-SPRINKLERED - A-3 USE)
INCREASE FOR SPRINKLERS:	0	=	0 (NON-SPRINKLERED DESIGN)
INCREASE FOR FRONTAGE :	0.296 x 9,500	=	2,812 SF
TOTAL ALLOWABLE AREA:			12,312 SF (ONE STORY)

ACTUAL COMBINED AREA 10,383 SF* (ONE STORY, COMBINED) = BELOW ADJUSTED ALLOWABLE = *11,860 SF W/ ROOF COVER OVERHANGS INCLUDED (STILL BELOW ADJUST. ALLOWABLE)

3. HEIGHT CALCULATIONS, NON-SEPARATED MIXED USE (TABLE 504.3 & 504.4, A-3, MOST RESTRICTIVE USE GROUP)

BUILDING HEIGHT: 21 FT.+/- (ALLOWABLE 55') 1 STORY (ALLOWABLE 2) STORIES:

* ABOVE BASED ON TYPE IIB (2B) CONSTRUCTION, NON-SPINKLERED DESIGN

4. OCCUPANCY LEGEND:

000	PANT LOAD: CALCULATED BY ROOM SQUAR	RE FOOTAGI
	A120 ROOM NUMBER	
F	AREA OF ROOM (S.F.)	

CALCULATED OCCUPANT LOAD * * S.F. / OCCUPANT BASED ON (TABLE 1004.1.2)

5. EXITING LEGEND: — DIRECTION OF TRAVEL

4 11 OCCUPANT LOAD COMBINED (TABLE 1004.1.2 OR ACTUAL)

CALCULCATIONS PER IBC 2018, SECTION 1005

		EXIT CAPACITY PROVIDED (OPENING CLEAR WIDTH)
		DOOR NUMBER
A12	32"-	CLEAR EGRESS WIDTH PROVIDED
100	2" -	CLEAR EGRESS WIDTH REQUIRED
	\	EXIT CAPACITY REQUIRED (IBC 2018, SECTION 1004, TABLE 1004.5)

* NOTE: EXIT CAPACITY: DOORS: 0.2 IN / PERSON (W/ OUT SPRINKLER, SECTION 1005.3.2) EXAMPLE: 36" EGRESS DOOR = 32" CLEAR OPENING / 0.2 = 160 OCCUPANTS

6. MAXIMUM TRAVEL DISTANCE

EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2): ASSEMBLY A-3, BUSINESS B, STORAGE S-1: MAX. 200 FEET (NS)

COMMON PATH OF TRAVEL: 75 FEET (TABLE 1006.3.2(2))

MAX. # OF OCCUPANT LOAD FOR SPACES WITH ONE EXIT:

IBC 2018, TABLE 1006.2.1							
OCCUPANCY	MAXIMUM OCCUPANT LOAD	MAXIMUM TRAVEL DISTANCE	MAXIMUM HEIGHT ABOVE GRADE PLANE				

	LOAD	DISTANCE	
A, B	49	75 FT	1 STORY
S-1	29	100 FT	1 STORY

* ROOMS/ SPACES EXCEEDING WILL REQUIRE 2 EGRESS EXISTS MIN.

DEAD END: MAX. 20 FEET, NS (SECTION 1020.4)

7. FEC-1 FIRE EXTINGUISHER CABINET (1 PER 3,000 SF & 75 FT. MAX. TRAVEL) SEMI-RECESSED - U.N.O.

FE-1 SURFACE-MOUNTED FIRE EXTINGUISHER (SECTION 906)

FIRE-RESISTIVE REQUIREMENTS:

FOR TYPE VB (5B) CONSTRUCTION

RATINGS FOR BUILDING ELEMENTS (IN HOURS):

- FIRE RESISTANCE RATING REQUIREMENTS FOR BUILING ELEMENTS (TABLE 601) 1. a. PRIMARHY STRUCTURAL FRAME: 0 HR
- (COLUMNS, GIRDERS, BEAMS, JOISTS, SPANDRELS AND BRACING)
- b. EXTERIOR BEARING WALLS: c. INTERIOR BEARING WALLS:
- d. NON-BEARING WALLS AND PARTITIONS EXTERIOR:
- f. FLOOR CONSTRUCTION, INCLUDING SUPPORTING BEAMS AND JOISTS: g. ROOF CONSTRUCTION, INCLUDING SUPPORTING BEAMS AND JOISTS:
- FIRE SEPARATION ASSEMBLIES: a. NOT REQUIRED PER NONSEPARATED OCCUPANCY DESIGN
- FIRE PARTITIONS:
- a. EXIT ACCESS CORRIDORS:
- b. COMBUSTIBILITY (SECTION 603) 1. EXTERIOR WALLS:
- F.R.T. WOOD ALLOWED WHERE FIRE-RATING IS 2 HR OR LESS NON-COMBUSTIBLE,

0 HR

0 HR

0 HR

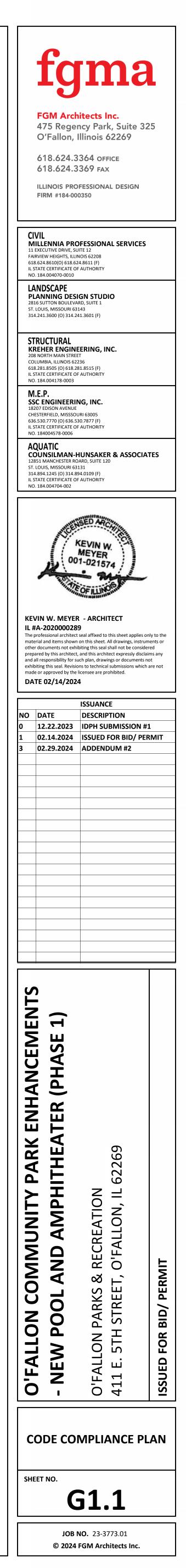
0 HR

0 HR

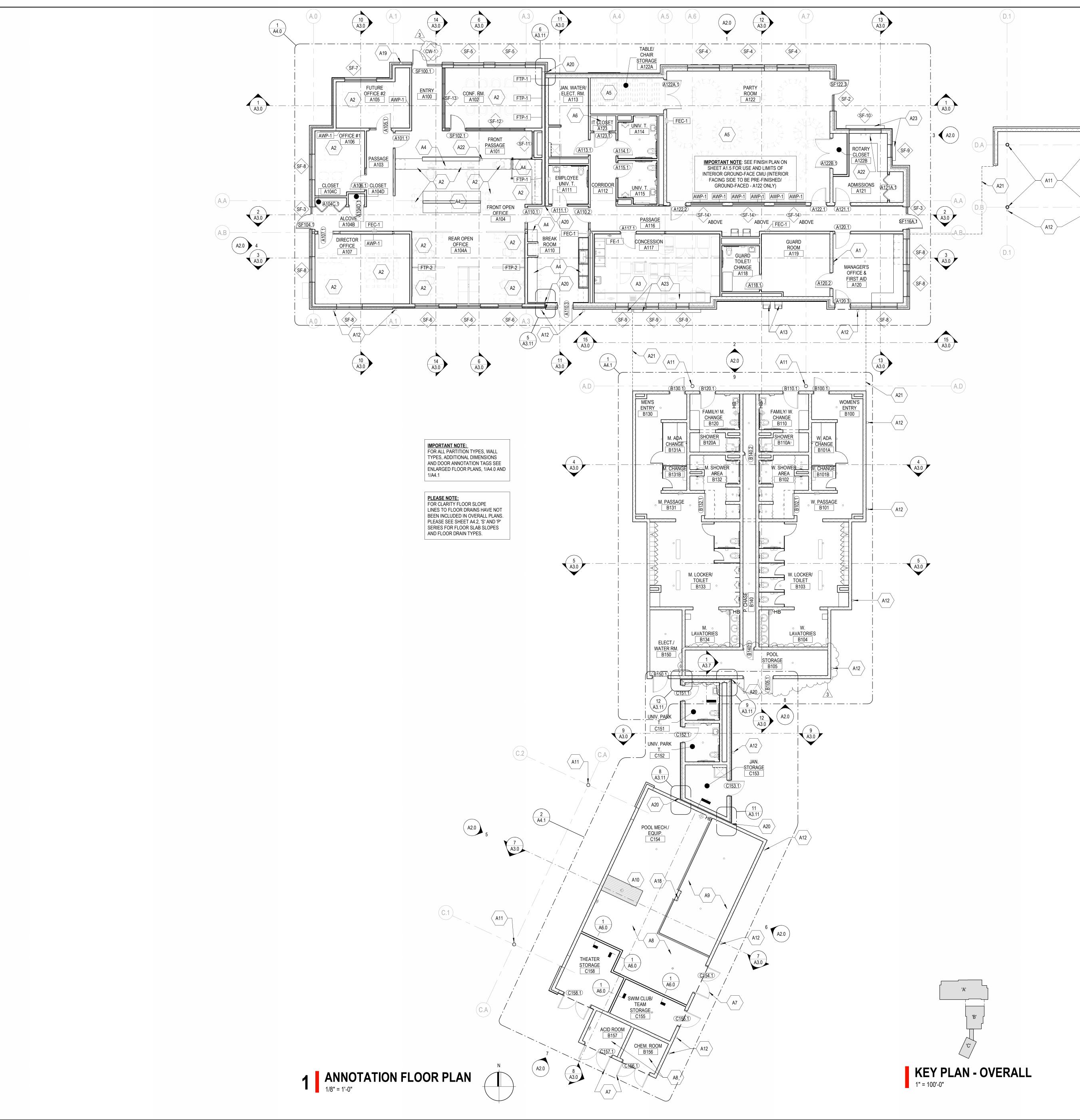
N/A

- NON-COMBUSTIBLE
- NON-COMUBSTILE,

- F.R.T. WOOD ALLOWED, INCLUDING GIRDERS, TRUSSES, FRAMING
- 2. OTHER REQUIREMENTS: INCIDENTAL USE AREAS (SECTION 509, TABLE 509):
- a. NONE
- LEGEND CODE PLAN MATRIX
- NONE PROVIDED
- 2. INTERIOR ELEMENTS:
- 3. ROOF:
- - AND DECKING
- e. NON-BEARING WALLS AND PARTITIONS INTERIOR: h. FIRE WALLS AND PARTY WALLS







FLOOR PLAN KEYED NOTES	
TAG DESCRIPTION A1 IDPH MANDATED, EMERGENCY TELEPHONE - SEE 'E' SERIES, MOUNT 48" AFF MAX.	fgma
 A2 FURNITURE/EQUIPMENT (NIC) - COORDINATE WITH OWNER/ARCHITECT TO PROVIDE ALL NECESSARY POWER/DATA TO REQ'D LOCATIONS A3 FOOD SERVICE EQUIPMENT AND CONCESSIONS ACCESSORIES - SEE SHEET FS-1.0 AND MEP SERIES FOR MORE INFORMATION PROVIDE ALL NECESSARY UTILITIES AS REQ'D A4 BUILT IN CASEWORK AND/OR COUNTERTOP - SEE CASEWORK TYPES/DETAILS AND ENLARGED PLANS/INTERIOR ELEVATIONS FOR MORE INFORMATION 	FGM Architects Inc. 475 Regency Park, Suite 325 O'Fallon, Illinois 62269
A5 TABLE AND CHAIRS (NIC) A6 I.T. CABINET A7 PER IDPH CONFORMANCE, DOOR HARDWARE TO INCLUDE ELECTRONIC CREDENTIAL	618.624.3364 OFFICE 618.624.3369 FAX
 A8 PER IDPH CONFORMANCE, POOL MECH. CHEM. & ACID STORAGE, AND TREATMENT AREAS A8 PER IDPH CONFORMANCE, POOL MECH. CHEM. & ACID STORAGE, AND TREATMENT AREAS ARE ALL TO BE PROPERLY LIT AND VENTILATED SPACES. SEE 'E' SERIES AND RCP FOR ROOM LIGHTING LAYOUTS AND SEE DOOR TYPES & EXT. ELEVATIONS FOR LOCATIONS OF 	FIRM #184-000350
ROOM DOOR LOUVERS AND THRU-WALL LOUVERS ALLOWING NATURAL VENTILATION - ROOMS TO BE MECH. EXHAUSTED PULLING CONSTANT OUTSIDE FRESH AIR.A9POOL MECH. PUMP PIT, SEE 'AQ' SERIES FOR FULL INFO AND EQUIP. PIT FLOOR FIN. AT	CIVIL MILLENNIA PROFESSIONAL SERVICES
 95'-0" WITH SLOPES TO DRAIN AS INDICATED. A10 POOL BACKWASH PIT - INTERIOR WATERPROOF LINED & ADA COMPLIANT TREAD GRATE LI SEE 'AQ' SERIES FOR FULL INFO AND EQUIP. PIT FLOOR FIN. AT 95'-0" WITH SLOPES TO DRAIN AS INDICATED. A11 EXTERIOR BLDG. COLUMN - GALV. & PAINTED. SEE 'S' SERIES FOR INFO, SEE SPEC. FOR 	EAIRVIEW HEIGHTS II LINOIS 62208
PAINT TYPE - ARCH. TO SELECT FINAL COLOR A12 DOWNSPOUT, TO BE COLLECTED U'GROUND W/ COLLECTOR BOOT BASIS OF DESIGN PIEDMONT METAL DOWNSPOUT BOOT SEE SPECIFICATION MANUAL FOR MORE INFORMATION - SEE 'C' SERIES AND ROOF PLAN & DETAILS FOR INFO	PLANNING DESIGN STUDIO 2816 SUTTON BOULEVARD, SUITE 1 ST. LOUIS, MISSOURI 63143 314.241.3600 (O) 314.241.3601 (F)
FOR FULL INFO A14 GLASS-FRONT DISPLAY CASE WITH PLASTIC LAMINATE SHELVES; SEE CASEWORK DETAILS FOR MORE INFORMATION. A15 1/2"TH. ACRYLIC RESIN PANEL ATTACHED TO METAL BASE, ANCHOR ASSEMBLY TO	STRUCTURAL KREHER ENGINEERING, INC. 208 NORTH MAIN STREET COLUMBIA, ILLINOIS 62236 618.281.8505 (0) 618.281.8515 (F)
 CASEWORK; BASIS OF DESIGN: 3FORM CHROMA FIN PARTITION: 96"L X 6"H; FINISH: GHOST (30% TRANSLUCENT WHITE), SILVER BASE FINISH. A16 PIPE AND TUBE RAILING, GALV. & PAINTED, WELD POSTS TO EMBEDED ANGLE. A17 POOL BACKWASH PIT EMBEDDED LADDER RUNGS, SEE AQ SERIES 	M.E.P. SSC ENGINEERING, INC. 18207 EDISON AVENUE
A18 PUMP PIT LADDER SEE DETAIL 4/A6.7 A19 RECESSED KNOX BOX - EXACT PRODUCT AND MOUNT (HEIGHT) TO BE COORDINATED W/ O'FALLON FD A20 2" EXPANSION JOINT	CHESTERFIELD, MISSSOURI 63005 636.530.7770 (O) 636.530.7877 (F) IL STATE CERTIFICATE OF AUTHORITY NO. 184004578-0006
A21SITE FENCING/GATES - SEE A0.1 AND 'C' SERIES FOR MORE INFORMATIONA22PROVIDE (3) 3" DIA. GROMMETS IN COUNTERTOP. COLOR: BLACK. COORDINATE ALL FINAL GROMMET LOCATIONS IN FIELD WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.A23STAINLESS STEEL METAL COUNTER, SEE SPEC. FOR INFO	AQUATIC COUNSILMAN-HUNSAKER & ASSOCIATES 12851 MANCHESTER ROARD, SUITE 120 ST. LOUIS, MISSOURI 63131 314.894.1245 (O) 314.894.0109 (F) IL STATE CERTIFICATE OF AUTHORITY NO. 184.004704-002
FE-1 FIRE EXTINGUISHER & MOUNTING BRACKET RA.# RESIDENTIAL APPLIANCE (SEE RA LEGEND) EC-1 FIRE EXTINGUISHER CABINET (SEM-RECESSED) TBA.# TOLLET AND BATH ACCESSORY (SEE A4 SERIES DRAWINGS) ED-1 AED CABINET (SEMI-RECESSED) FTP.# FABRIC-WRAPPED TACK PANEL (SEE MATERIAL LEGEND) SN.# SIGNAGE (SEE SIGNAGE TYPES) AWP.# COUSTIC WALL PANEL (SEE MATERIAL LEGEND) SN.# SIGNAGE (SEE SIGNAGE TYPES) AWP.# (SEE MATERIAL LEGEND) COWNER PROVIDED EQUIPMENT - N.I.C. TAG DESCRIPTION (SEE MATERIAL LEGEND) RA-1 ELECTRIC DOUBLE WALL OVEN RA-2 MICROWAVE OVEN WWATER LINE NWWATER LINE RA-4 DISH WASHER RA-5 UNDER COUNTER ICE MAKER RA-6 COFFEE MAKER, WATER LINE	KEVIN W. MEYER - ARCHITECT IL #A-2020000289 The professional architect seal affixed to this sheet applies only to the material and items shown on this sheet. All drawings, instruments or other documents not exhibiting this seal shall not be considered prepared by this architect, and this architect expressly disclaims any and all responsibility for such plan, drawings or documents not exhibiting this seal. Revisions to technical submissions which are not made or approved by the licensee are prohibited. DATE 02/14/2024 ISSUANCE NO DATE DESCRIPTION 0 12.22.2023 IDPH SUBMISSION #1 1 02.14.2024 ISSUED FOR BID/ PERMIT 3 02.29.2024 ADDENDUM #2 Image: respect to the state in the interval of the state in the state interval of the state in the state interval of the
 DEPERTING INTERIOR FOR THE EXTINGUISHED FOR THE STORE DRAWING DEPERTING INTERIOR SPECTRING INTERIOR AND FOR THE STORE DRAWING DEPERTING INTERIOR AREAS DRAWIN AT A LARGER SCALE ARE SHOWN TO FILL AND FARTITION TYPES FOR THICKNESS OF WALLS AND PARTITION THERISON SARE SHOWN TO FILL AND FOR THICKNESS OF WALLS AND PARTITION THERISON AREAS DRAWIN AT A LARGER SCALE ARE SHOWN TO FILL AND FARTITION THERISON SARE SHOWN TO FILL AND FARTITION THERISON SHOW TO FILL AND FARTITION THERISON SHOWN TO FILL AND FARTITION THERISON SHOWN TO FILL AND FARTITION THERISON AREAS DRAWIN AT A LARGER SCALE ARE SHOWN TO FILL AND FARTITION THERISON SHOWN TO FILL AND FARTITION THERISON SHOWN TO FILL AND FARTITION THERISON SHOWN TO FILL AND FARTITIONS WHICH ARE NOT INTENDED TO BE LAID OUT ON A RADING AND FARTITIONS WHICH ARE SHOWN TO FILL AND FARTITIONS WHICH ARE NOT INTENDED TO BE LAID OUT ON A RADING AND FARTITIONS WHICH ARE SHOWN TO FILL AND FILL AND FARTITIONS WHICH ARE SHOWN TO FILL AND FARTITIONS WHICH ARE SHOWN TO FI	O'FALLON COMMUNITY PARK ENHANCEMENTS - NEW POOL AND AMPHITHEATER (PHASE 1) O'FALLON PARKS & RECREATION 411 E. 5TH STREET, O'FALLON, IL 62269 SSUED FOR BID/ PERMIT
ROOMS (INDICATED FOR USE OF COMPLIANT FIXTURE COUNT). ALL FLOORS OF BATHER PREPARATION AREAS & ROOMS SHALL BE SLIP-RESISTANT, IMPERVIOUS TO MOISTURE AND SLOPED TO DRAIN AT LEAST 1" IN 10 (TEN) FEET. WHERE EXPOSED SEALED CONCRETE IS UTILIZED AS FINAL FLOORING, PROVIDE BROOM FINISH WITH SLIP-RESISTANT FINAL TEXTURE. HOSE BIBBS PROVIDED IN EACH BATHER PREPARATION ROOM/SPACE AND IN THE	0 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
POOL MECH./ EQUIPMENT ROOM SPACE. SEE 'P' SERIES FOR FULL INFO. DRESSING ROOM SPACES (ONE MIN.) ARE INCLUDED IN EACH SEX BATHER PREPARATION ROOM AS SHOWN. ALL LAVATORIES AND SHOWER ENCLOSURES TO HAVE ADJACENT, WALL-MOUNTED (ADA HEIGHT), LIQUID SOAP DISPENSERS AS SHOWN.	ANNOTATION FLOOR PLAN
POOL MECH./ EQUIPMENT ROOM SPACE, SHALL HAVE A FINAL FLOOR FINISH OF EXPOSED SEALED CONCRETE WITH BROOM FINISH TO BE SLIP-RESISTANT. FLOOR OF THIS AREA SHALL SLOPE TOWARDS DRAINS AS SHOWN. NOTE DEDICATED STORAGE AREA SPACE IN POOL MECH./ EQUIPMENT ROOM FOR THE STORAGE OF ALL RELATED POOL CHEMICALS (IN ENCLOSED, LIGHTED AND VENTILATED ROOM). DOORS INTO ALL SPACES ARE PROVIDED WITH LOCKED	SHEET NO.
KEYSETS TO PREVENT UNAUTHORIZED ACCESS.	JOB NO. 23-3773.01 © 2024 FGM Architects Inc.

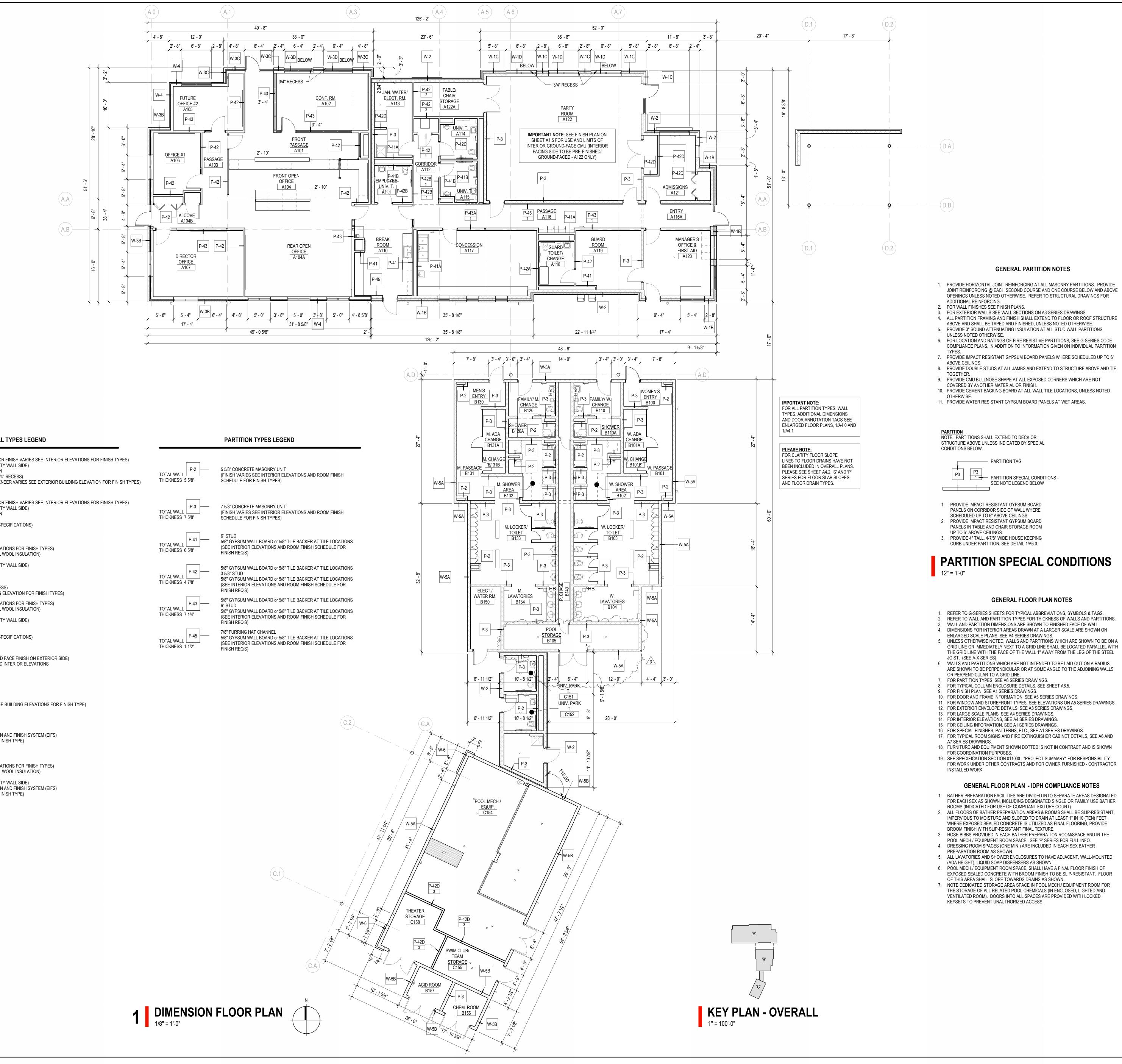
	DE00DIDTION	fr	jm a	
TAG A1	DESCRIPTION IDPH MANDATED, EMERGENCY TELEPHONE - SEE 'E' SERIES, MOUNT 48" AFF MAX.		JIIIC	7
A1 A2	FURNITURE/EQUIPMENT (NIC) - COORDINATE WITH OWNER/ARCHITECT TO PROVIDE ALL NECESSARY POWER/DATA TO REQ'D LOCATIONS		chitects Inc.	
A3	FOOD SERVICE EQUIPMENT AND CONCESSIONS ACCESSORIES - SEE SHEET FS-1.0 AND MEP SERIES FOR MORE INFORMATION PROVIDE ALL NECESSARY UTILITIES AS REQ'D	475 Reg	gency Park, Suite 3 n, Illinois 62269	325
A4 A5	BUILT IN CASEWORK AND/OR COUNTERTOP - SEE CASEWORK TYPES/DETAILS AND ENLARGED PLANS/INTERIOR ELEVATIONS FOR MORE INFORMATION TABLE AND CHAIRS (NIC)		1, IIIIIIOIS 02209	
46 47	I.T. CABINET PER IDPH CONFORMANCE, DOOR HARDWARE TO INCLUDE ELECTRONIC CREDENTIAL		1.3369 FAX	
A8	CONTROLLED ACCESS LOCKSET. ENTRANCE BY CARD, CODE OR KEY OVERRIDE (TYP. ALL POOL MECH., CHEMICAL OR ACID STORAGE AREA DOORS) PER IDPH CONFORMANCE, POOL MECH. CHEM. & ACID STORAGE, AND TREATMENT AREAS	ILLINOIS P FIRM #184	ROFESSIONAL DESIGN -000350	
	ARE ALL TO BE PROPERLY LIT AND VENTILATED SPACES. SEE 'E' SERIES AND RCP FOR ROOM LIGHTING LAYOUTS AND SEE DOOR TYPES & EXT. ELEVATIONS FOR LOCATIONS OF			
A9	ROOM DOOR LOUVERS AND THRU-WALL LOUVERS ALLOWING NATURAL VENTILATION - ROOMS TO BE MECH. EXHAUSTED PULLING CONSTANT OUTSIDE FRESH AIR. POOL MECH. PUMP PIT, SEE 'AQ' SERIES FOR FULL INFO AND EQUIP. PIT FLOOR FIN. AT	CIVIL MILLENNIA F	PROFESSIONAL SERVICE	s
A10	95'-0" WITH SLOPES TO DRAIN AS INDICATED. POOL BACKWASH PIT - INTERIOR WATERPROOF LINED & ADA COMPLIANT TREAD GRATE LID, SEE 'AQ' SERIES FOR FULL INFO AND EQUIP. PIT FLOOR FIN. AT 95'-0" WITH SLOPES TO	11 EXECUTIVE DRIV FAIRVIEW HEIGHTS, 618.624.8610(O) 61 IL STATE CERTIFICA	ILLINOIS 62208 8.624.8611 (F)	
A11	DRAIN AS INDICATED. EXTERIOR BLDG. COLUMN - GALV. & PAINTED. SEE 'S' SERIES FOR INFO, SEE SPEC. FOR	NO. 184.004070-00		
A12	PAINT TYPE - ARCH. TO SELECT FINAL COLOR DOWNSPOUT, TO BE COLLECTED U'GROUND W/ COLLECTOR BOOT BASIS OF DESIGN PIEDMONT METAL DOWNSPOUT BOOT SEE SPECIFICATION MANUAL FOR MORE	PLANNING D 2816 SUTTON BOUL ST. LOUIS, MISSOUE 314.241.3600 (O) 3	RI 63143	
A13	INFORMATION - SEE 'C' SERIES AND ROOF PLAN & DETAILS FOR INFO EXTERIOR GRADE WALL MTD. HI-LOW ADA COMPLIANT DRINKING FOUNTAIN - SEE 'P' SERIES FOR FULL INFO			
A14	GLASS-FRONT DISPLAY CASE WITH PLASTIC LAMINATE SHELVES; SEE CASEWORK DETAILS FOR MORE INFORMATION.	208 NORTH MAIN S	INEERING, INC. TREET	
A15	1/2"TH. ACRYLIC RESIN PANEL ATTACHED TO METAL BASE, ANCHOR ASSEMBLY TO CASEWORK; BASIS OF DESIGN: 3FORM CHROMA FIN PARTITION: 96"L X 6"H; FINISH: GHOST (30% TRANSLUCENT WHITE), SILVER BASE FINISH.	COLUMBIA, ILLINOI 618.281.8505 (O) 6 IL STATE CERTIFICA NO. 184.004178-00	18.281.8515 (F) TE OF AUTHORITY	
A16 A17	PIPE AND TUBE RAILING, GALV. & PAINTED, WELD POSTS TO EMBEDED ANGLE. POOL BACKWASH PIT EMBEDDED LADDER RUNGS, SEE AQ SERIES	M.E.P. SSC ENGINEE		
A18 A19	PUMP PIT LADDER SEE DETAIL 4/A6.7 RECESSED KNOX BOX - EXACT PRODUCT AND MOUNT (HEIGHT) TO BE COORDINATED W/ O'FALLON FD	18207 EDISON AVE CHESTERFIELD, MIS 636.530.7770 (O) 6 IL STATE CERTIFICA	SSOURI 63005 36.530.7877 (F)	
A20 A21	2" EXPANSION JOINT SITE FENCING/GATES - SEE A0.1 AND 'C' SERIES FOR MORE INFORMATION	NO. 184004578-000		
A22 A23	PROVIDE (3) 3" DIA. GROMMETS IN COUNTERTOP. COLOR: BLACK. COORDINATE ALL FINAL GROMMET LOCATIONS IN FIELD WITH OWNER/ARCHITECT PRIOR TO INSTALLATION. STAINLESS STEEL METAL COUNTER, SEE SPEC. FOR INFO	COUNSILMA		IATES
-1 FI Bl C-1 FI (S C-1 AR R-# LC I-# SI	1 ELECTRIC DOUBLE WALL OVEN 2 MICROWAVE OVEN 3 COMBO REFRIG / FREEZER W/ WATER LINE 4 DISH WASHER 5 UNDER COUNTER ICE MAKER	KEVIN W. ME IL #A-2020000 The professional arch material and items sh other documents not prepared by this arch and all responsibility exhibiting this seal. Re	itect seal affixed to this sheet applies own on this sheet. All drawings, instr exhibiting this seal shall not be consi tect, and this architect expressly dist or such plan, drawings or document visions to technical submissions whi the licensee are prohibited. 024 ISSUANCE DESCRIPTION 3 IDPH SUBMISSION 4 ISSUED FOR BID/ P	truments or sidered sclaims any ts not ich are not #1
	6 COFFEE MAKER, WATER LINE			
REFER WALL A DIMENS ENLARC UNLESS GRID LI THE GF JOIST. WALLS ARE SH OR PEF FOR PA FOR TY FOR FIT FOR CE FOR LA FOR LA FOR SF FOR CE FOR SF FOR TY A7 SER FOR CC SEE SP FOR WO INSTAL	Description Servers Sheets for typical abbreviations, symbols & tags. TO G-SERVES SHEETS FOR Typical Abbreviations, symbols & tags. TO Wall AND PARTITION TYPES FOR THICKNESS OF WALLS AND PARTITIONS. ND PARTITION TYPES FOR THICKNESS OF WALLS AND PARTITIONS. SIONE FOR INTERIOR AREAS DRAWN AT A LARGER SCALE ARE SHOWN ON GED SCALE FLANS. SEE AJ SERVES DRAWNINGS. SOTHERWISE NOTED, WALLS AND PARTITIONS WHICH ARE SHOWN TO DE ON A INE OR INTERIOR AREAS DRAWN AT A LARGER SCALE ARE SHOWN ON GED SCALE FLANS. SEE AJ SERVES DRAWNINGS. SOTHERWISE NOTED, WALLS AND PARTITIONS WHICH ARE SHOWN TO BE ON A INE OR INMEDIANS. SEE AJ SERVES DRAWNINGS. NE OR INTERIOR AREAS DRAWN AT A LARGER SCALE ARE SHOWN ON GED SCALE FLANS. SEE AJ SERVES DRAWNINGS. NE OR INTERIOR AREAS DRAWN AT A LARGER SCALE ARE SHOWN ON GED SCALE FLANS. SEE AJ SERVES DRAWNINGS. NE OR INTERVISE WALLS OF GRAUNINGS HEAD AND ARE TO THE ADJOINING WALLS PENDICULAR TO A GRID LINE. NO PARTITION SWHICH ARE NOT INTENDED TO BE LAID OUT ON A RADIUS, OR AND FRAMINE ONCLOLAR OR AT SOME ANGLE TO THE ADJOINING WALLS PENDICULAR TO A G RID LINE. WITTION TYPES, SEE AS SERVES DRAWINGS. NEGAL COLUMR DECLOSURE DETAILS, SEE SHEET AS S. NOR AND STOREFRONT TYPES, SEE AS SERVES DRAWINGS. NOR AND ATTORNES EAT SERVES DRAWINGS. NOR AND STOREFRONT TYPES, SEE AS SERVES DRAWINGS. NOR AND STOREFRONT TYPES, SEE AS SERVES DRAWINGS. <td>EW POOL AND AMPHITHEATER (PHASE 1)</td> <td>ALLON PARKS & RECREATION E. 5TH STREET, O'FALLON, IL 62269</td> <td>ED FOR BID/ PERMIT</td>	EW POOL AND AMPHITHEATER (PHASE 1)	ALLON PARKS & RECREATION E. 5TH STREET, O'FALLON, IL 62269	ED FOR BID/ PERMIT
REFER WALL A DIMENS ENLARC UNLESS GRID LI THE GF JOIST. WALLS ARE PEF FOR TY FOR FOR DO FOR TY FOR FOR CE FOR SF FOR SF FOR CE FOR SF FOR CE FOR SF FOR SF FOR CE FOR SF FOR SF F	CONTRACT STATES AND A STATES AND AND A STATES AND A STAT	O'FALLON COMMUNITY PARK - NEW POOL AND AMPHITHEA	LON PARKS & RECREATION 5TH STREET, O'FALLON, IL 622	ISSUED FOR BID/
REFER WALL A DIMENS ENLARC JINLESS ENLARC JINLESS ENLARC JOIST. WALLS ARE SH FOR PA FOR DO FOR TY FOR CO FOR CE FOR CO FOR CE FOR CO FOR CE FOR CO FOR CO FO	CONTRACT OF A STREED PARAMINAS STREED STARTING START OF A STREED PARAMINAS STREED START OF A STREED PARAMINAS STREED S	O'FALLON COMMUNITY PARK O'FALLON COMMUNITY PARK SHEET NO SHEET NO	O'FALLON PARKS & RECREATION 411 E. 5TH STREET, O'FALLON, IL 622	ISSUED FOR BID/

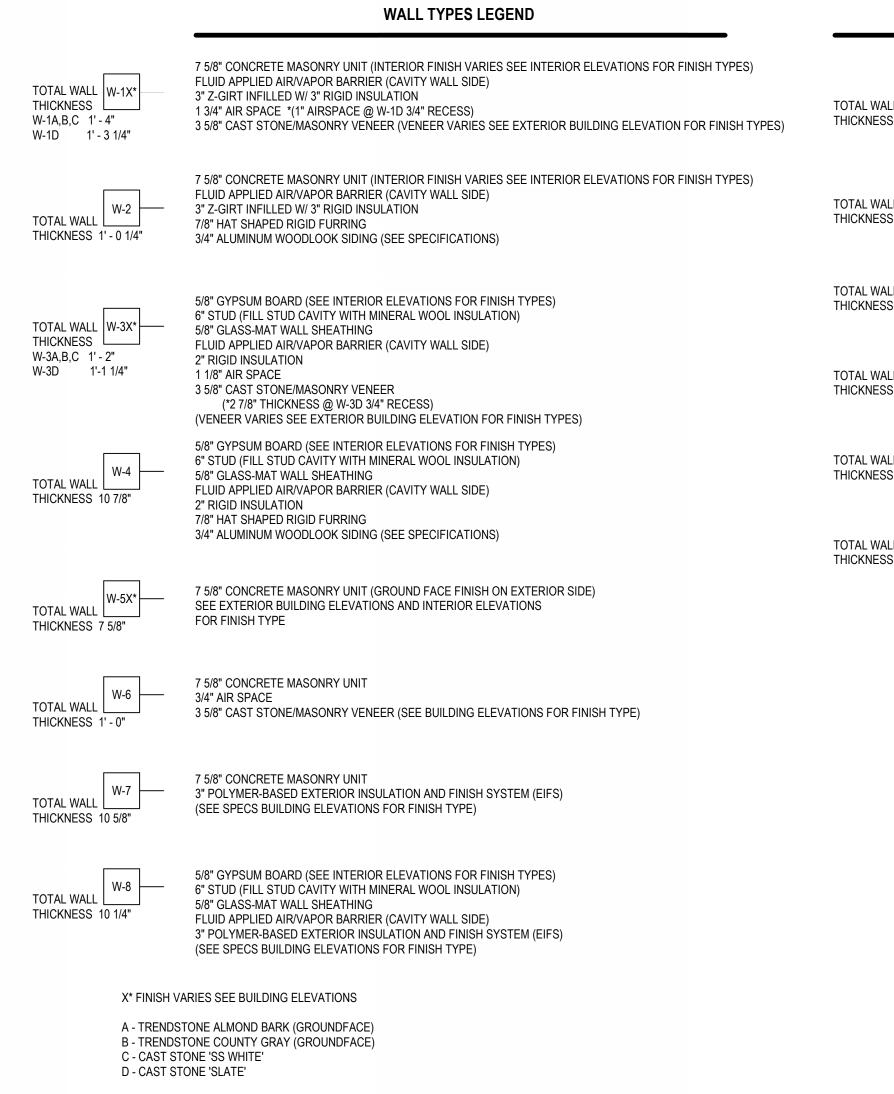
(D.2)

(D.2)

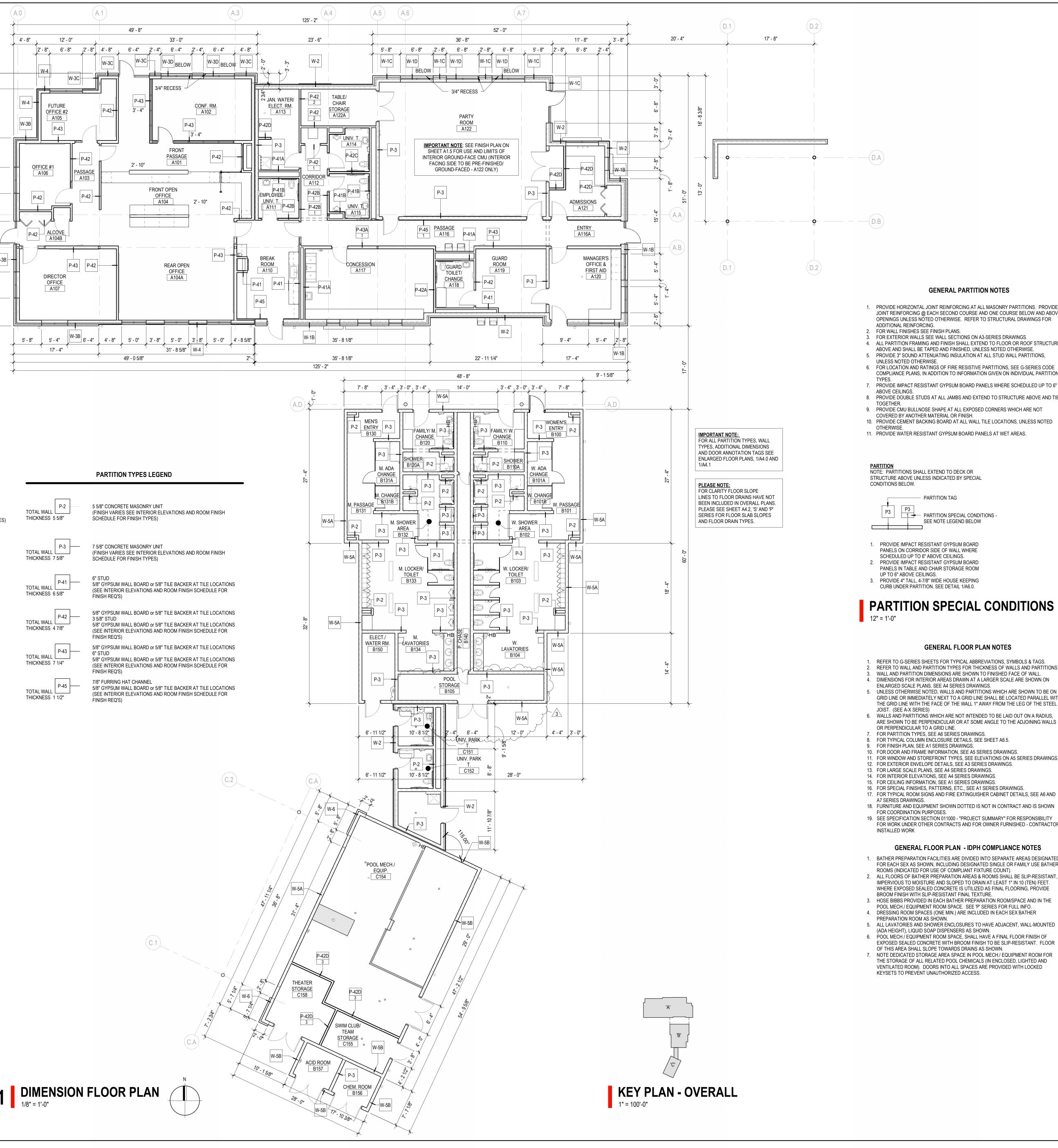
170	DESCRIPTION	
RA-1	ELECTRIC DOUBLE WALL OVEN	
RA-2	MICROWAVE OVEN	
RA-3	COMBO REFRIG / FREEZER	
	W/ WATER LINE	
RA-4	DISH WASHER	
RA-5	UNDER COUNTER ICE MAKER	
RA-6	COFFEE MAKER, WATER LINE	

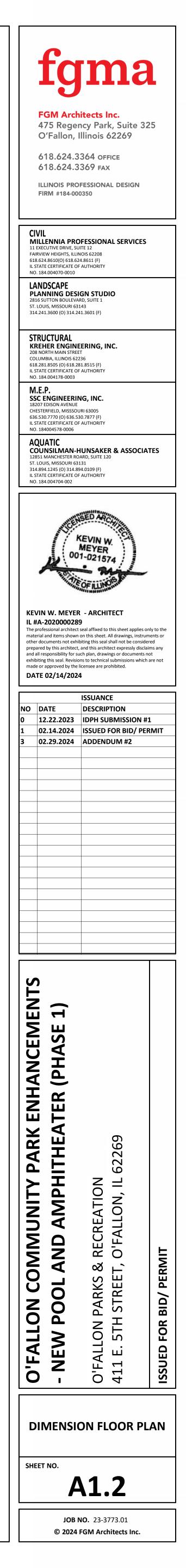


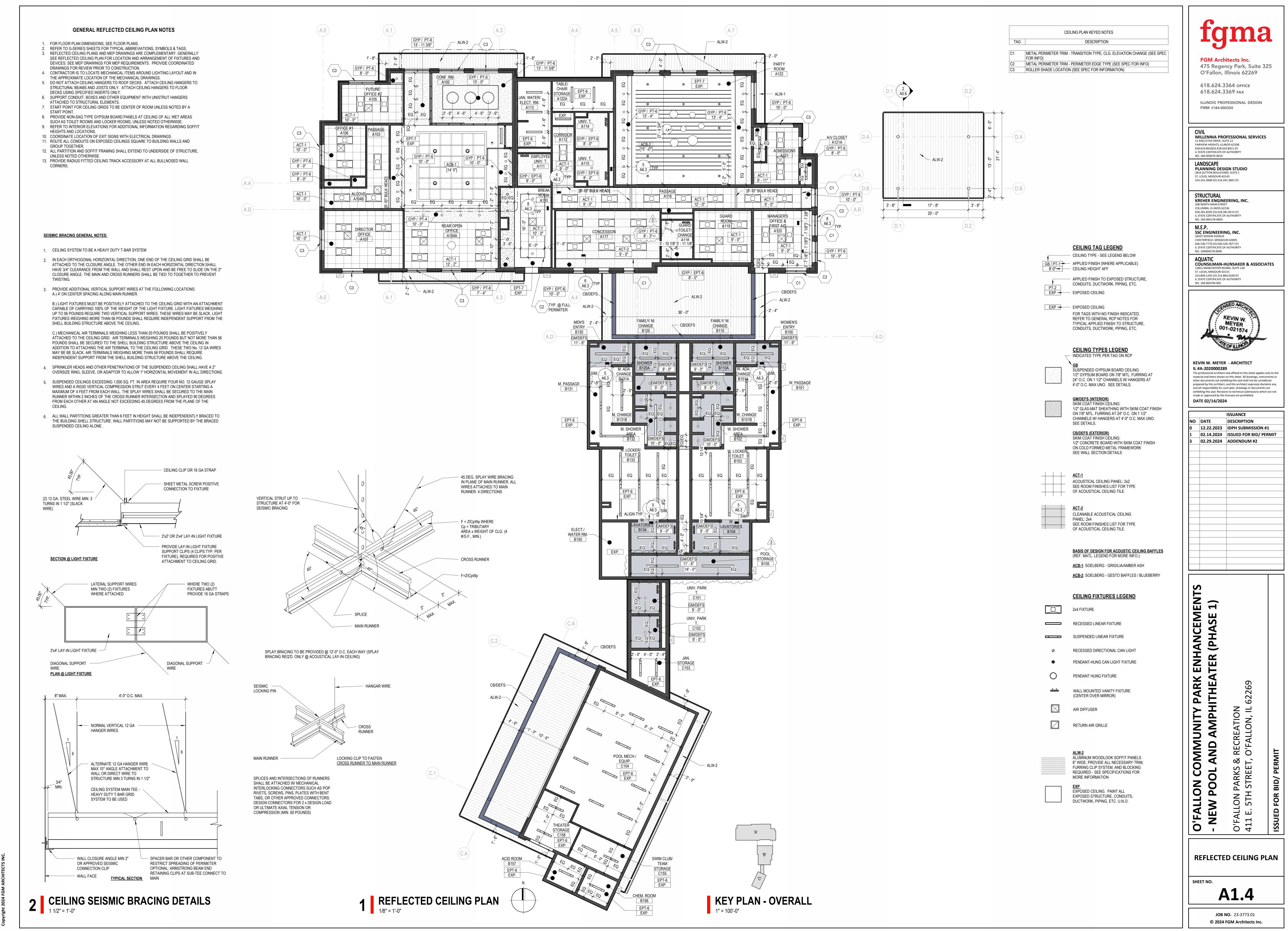












2/28/2024 4:14:46 PM C:\revit temp\2022\23-3773.01_O'FallonCommPark_PoolPh1_2022_CD_brennan.hartin.r[,] copyright 2024 FGM ARCHITECTS INC.

PAINTS



EPT-6: SW 7007 CEILING BRIGHT WHITE (EPOXY) EPT-7: SW 7069 IRON ORE (EPOXY) EPT-8: SW 6467 KENDAL GREEN (EPOXY)

NOTE: WHERE EPOXY PAINT IS NOTED, PAINT TO BE PRE-CATALYZED WATER BASED EPOXY; SEE SPEC FOR MORE INFORMATION.

ACT-1 MANUFACTURER: PRODUCT / COLOR: SIZE: GRID:

CONTACT: NOTE:

<u>ACT-2</u> MANUFACTURER: PRODUCT / COLOR: SIZE: GRID: CONTACT:

ACB-1

MANUFACTURER: PRODUCT / COLOR: SIZE:

REMARKS:

CONTACT:

ACB-2

MANUFACTURER:

SIZE: REMARKS:

CONTACT: <u>AWP-1</u> MANUFACTURER:

PRODUCT: PATTERN / COLOR: THICKNESS: REMARKS:

CONTACT:

<u> ARP-1</u> MANUFACTURER: 3FORM SIZE:

> ∕3∖⁻ CONTACT:

INSTALL TYPE:

<u>CG-1</u> MANUFACTURER: PRODUCT:

SIZE:

FINISH: <u>CPT-1</u>

BACKING: SIZE: INSTALL: ASHLAR; HM99 ADHESIVE CONTACT: <u>CPT-2</u> MANUFACTURER: INTERFACE PATTERN / COLOR:

BACKING: SIZE: INSTALL: CONTACT:

<u>CPT-3</u> MANUFACTURER: BACKING: SIZE: INSTALL:

CONTACT:

773

. 10:53:12 AM mp\2022\23-37

2/29/2024 C:\revit ten

ACOUSTICAL CEILING TILE ARMSTRONG ULTIMA HIGH NRC (2081) / WHITE, FINE TEXTURE 24" X 24" X 1" TH 15/16" TEGULAR GRID - WHITE

ELISABETH MOON

EMOON@ARMSTRONGCEILINGS.COM SEE RCP FOR LOCATIONS AND USE OF METAL PERIMETER TRIM AND TRANSITIONS, SIZE AND COLOR PER SPECIFICATIONS

ACOUSTICAL CEILING TILE

ARMSTRONG KITCHEN ZONE (672) / WHITE, SMOOTH TEXTURE 24" X 48" X 5/8"TH 15/16" SQUARE LAY-IN GRID, WHITE

ELISABETH MOON EMOON@ARMSTRONGCEILINGS.COM

ACOUSTICAL CEILING BAFFLE CEILING SOUND DIFFUSER UNIT)

GRIGILIA / AMBER ASH

SOELBERG

SEE RCP FOR MORE INFORMATION. TO BE MOUNTED TO UNISTRUT AND SUSPENDED FROM STRUCTURE ABOVE, SEE ELEVATIONS AND RCP FOR MOUNTING HEIGHTS; PROVIDE SUSPENSION ACCESSORIES FROM MANUF.

CLARA JANNETT CLARAJANNETT@GMAIL.COM ACOUSTICAL CEILING BAFFLE

(CEILING SOUND DIFFUSER UNIT) SOFI BERG

PRODUCT / COLOR: GESTO BAFFLES / BLUEBERRY SEE RCP FOR MORE INFORMATION.

> TO BE MOUNTED TO UNISTRUT AND SUSPENDED FROM STRUCTURE ABOVE, SEE ELEVATIONS AND RCP FOR MOUNTING HEIGHTS: PROVIDE SUSPENSION ACCESSORIES FROM MANUF.

CLARA JANNETT CLARAJANNETT@GMAIL.COM **ACOUSTIC WALL PANEL**

SOELBERG

GIU / BLUEBERRY

VU

1/2"

PROVIDE BLOCKING IN WALL BEHIND PANELS TO ACCOMODATE Z-CLIP MOUNTING. PROVIDE ALL MOUNTING ACCESSORIES FROM MANUF. & COORDINATE INSTALL WITH ARCHITECT IN FIELD.

CLARA JANNETT CLARAJANNETT@GMAIL.COM

ACRYLIC RESIN PANEL (PLASTIC FABRICATIONS)

PATTERN / COLOR: VARIA / WHISPER / SANDSTONE FINISH

3/8" TH. / SEE INTERIOR ELEVATIONS & CASEWORK DETAIL SHEETS FOR MORE INFORMATION. CANTILEVERED, ILTUO (OR VERSA ACCEPTABLE) CANTILEVERED I- FLOOR ANCHORED PARTITION, MANUF. STANDARD INSTALL ILTUO FRAME/HARDWARE, INCLUDE 90-DEGREE CORNER-MANUF. TYP. - ABUTTING PANELS IS ACCEPTABLE; FINISH: JET BLACK MATTE , mm

CAITLIN SCHAUSTER CAITLIN.SCHAUSTER@3-FORM.COM 314.740.3374

CORNER GUARD

CONSTRUCTION SPECIALTIES ACROVYN CORNER GUARD SM-20 4' TALL LENGTHS; REFER TO FINISH PLAN AND SPECIFICATION FOR MORE INFORMATION. ARCHITECT TO SELECT UP TO THREE (3) COLORS

FROM MANUF. FULL RANGE. <u>CARPET</u> MANUFACTURER: INTERFACE PATTERN / COLOR: HN850 HUMAN NATURE / 104207 SLATE GI ASBA

25CM X 1M

JACLYN DAVIS JACLYN.DAVIS@INTERFACE.COM

314.660.2372 CARPET

DESERT RANCH / 108154 SAGEBRUSH GLASBAC

50CM X 1M ASHLAR; HM99 ADHESIVE

JACLYN DAVIS JACLYN.DAVIS@INTERFACE.COM 314.660.2372 CARPET

INTERFACE PATTERN / COLOR: MILE ROCK / 107317 FLINT MICA GLASBAC 50CM X 50CM

MONOLITHIC: HM99 ADHESIVE

JACLYN DAVIS JACLYN.DAVIS@INTERFACE.COM 314.660.2372

<u>CT-1</u> MANUFACTURER: PATTERN / COLOR: SIZE: INSTALL METHOD: GROUT:

> <u>CT-2</u> MANUFACTURER: PATTERN / COLOR:

CONTACT:

SIZE: INSTALL METHOD: GROUT:

CONTACT:

<u>CT-3</u> MANUFACTURER:

PATTERN / COLOR: SIZE: INSTALL METHOD:

> GROUT: CONTACT:

<u>CTB-1</u> MANUFACTURER: PATTERN / COLOR: SIZE:

INSTALL METHOD: GROUT:

CONTACT:

ERF-1 MANUFACTURER: PRODUCT: COLOR: REMARKS:

CONTACT:

<u>FRP-1</u> MANUFACTURER: PATTERN / COLOR: THICKNESS:

FTP-1 MANUFACTURER:

REMARKS:

PANEL:

FABRIC: THICKNESS: 1" TH. REMARKS:

CONTACT:

<u>FTP-2</u> MANUFACTURER: PANEL: FABRIC: THICKNESS: REMARKS:

CONTACT:

<u>H-1</u> MANUFACTURER: PRODUCT: COLOR: SIZE: <u>LVT-1</u> MANUFACTURER: INTERFACE PATTERN / COLOR: TEXTURED WOODGRAINS / ANTIQUE GRAY OAK SIZE: 25CM X 1M THICKNESS: INSTALL: CONTACT:

<u>LVT-2</u> MANUFACTURER: PATTERN / COLOR: SIZE: THICKNESS: INSTALL:

CONTACT:

AMERICAN OLEAN HISTORIC LIMESTONE / LINEAGE 24" X 24 MONOLITHIC - REF. FINISH PLAN MINIMUM SIZE GROUT JOINTS PER MANUF RECOMMENDATION. TEC POWERGROUT, COLOR TBD NIKKI STELLOH NIKKI.STELLOH@VIRGINIATILE.COM 314.327.9764 CERAMIC OR PORCELIN TILE

<u>PL-1</u>

COLOR:

FINISH:

PL-2

FINISH:

<u>RCB-1</u>

SIZE:

MODEL:

SIZE

SC-1

FINISH:

<u>SSF-1</u>

REMARKS:

MANUFACTURER:

PATTERN / COLOR:

CONTACT:

REMARKS:

MANUFACTURER:

<u>SSF-2</u>

CONTACT:

WD-1

SPECIES:

COLOR:

<u>W-CPT-1</u>

BACKING:

INSTALL:

CONTACT:

WF-1

MANUFACTURER:

REMARKS:

SIZE:

MANUFACTURER:

PATTERN / COLOR:

REMARKS:

CONTACT:

CONTACT:

CONTACT:

MANUFACTURER:

PATTERN / COLOR:

MANUFACTURER:

PATTERN / COLOR:

PATTERN / COLOR:

CERAMIC OR PORCELIN TILE

AMERICAN OLEAN HISTORIC LIMESTONE / LINEAGE 12" X 24"

STACK BOND - REF. INTERIOR ELEVATIONS. MINIMUM SIZE GROUT JOINTS PER MANUF. RECOMMENDATION. TEC POWERGROUT, COLOR TBD

NIKKI STELLOH NIKKI.STELLOH@VIRGINIATILE.COM 314.327.9764

CERAMIC OR PORCELIN TILE TII FBA MAGICO / IRIDESCENT SKY BLUE

1" X 6" BRICK MOSAIC ON 12" X 12" SHEETS, 6MM TH MOUNTED SHEETS WITH PAPER FACING MATCH SHEET JOINTS; TEC POWERGROUT,

COLOR TBD SCOTT SIEGAL SSIEGAL@TILEBAR.COM 314.929.9404

CERAMIC OR PORCELIN TILE BASE AMERICAN OLEAN

HISTORIC LIMESTONE / LINEAGE 3"H X 24"L BULLNOSE PROFILE BASE - SEE BASE DETAILS FOR MORE INFORMATION

MINIMUM SIZE GROUT JOINTS PER MANIF. RECOMMENDATION. TEC POWERGROUT, COLOR TBD.

NIKKI STELLOH NIKKI.STELLOH@VIRGINIATILE.COM 314.327.9764

NOTE: SATIN ANODIZED SCHLUTER SYSTEM EDGE ROTECTION TO BE USED AT CT ENDS AND CORNERS.

EPOXY RESINOUS FLOOR MISSOURI TERRAZZO STRATASHEILD - POWERTREAD - SERIES 237 31 GR - SLATE GRAY COATING SYSTEM: EPOXOPRIME - SERIES 201 / EVERTHANE - SERIES 248 MATTE CHEMICAL RESISTANT COATING; ANTI-SLIP FINISH. INTEGRAL FLOOR BASE NOTED AS ERB-1 ON FINISH PLAN.

> JASON STEFANI JASON@MISSOURITERRAZZO.COM

FIBERGLASS REINFORCED PLASTIC CRANE COMPOSITES GLASBOARD / GRAY 636, SMOOTH FINISH

0.75" PROVIDE ALL MANUFACTURER'S COORDINATING TRIM PIECES AS REQUIRED.

FABRIC TACK PANEL (ACOUSTIC TACK PANEL) GOLTERMAN AND SABO

ACOUSTI-TACK GUILFORD OF MAINE; ANCHORAGE; THISTLE 2085

Z-CLIP SYSTEM MOUNT; PROVIDE ALL MOUNTING ACCESSORIES PER MANUFACTURERS RECOMMENDATION. SEE INTERIOR ELEVATIONS FOR MORE INFO.

BRIAN SHUH BRIANS@GOLTERMAN.COM 314.336.2145

FABRIC TACK PANEL (ACOUSTIC TACK PANEL) GOLTERMAN AND SABO ACOUSTI-TACK

GUILFORD OF MAINE; ANCHORAGE; BIRCH 2129 1" TH.

Z-CLIP SYSTEM MOUNT; PROVIDE ALL MOUNTING ACCESSORIES PER MANUFACTURERS RECOMMENDATION. SEE INTERIOR ELEVATIONS FOR MORE INFO.

BRIAN SHUH BRIANS@GOLTERMAN.COM 314.336.2145

SATIN STAINLESS STEEL

LUXURY VINYL TILE OR PLANK

ASHLAR; HM99 ADHESIVE

JACLYN.DAVIS@INTERFACE.COM

TEXTURED WOODGRAINS / SUGARPINE A00426

LUXURY VINYL TILE OR PLANK

ASHLAR; HM99 ADHESIVE

JACLYN.DAVIS@INTERFACE.COM

JACLYN DAVIS

314.660.2372

JACLYN DAVIS

314.660.2372

INTERFAC

25CM X 1M

MOCKETT

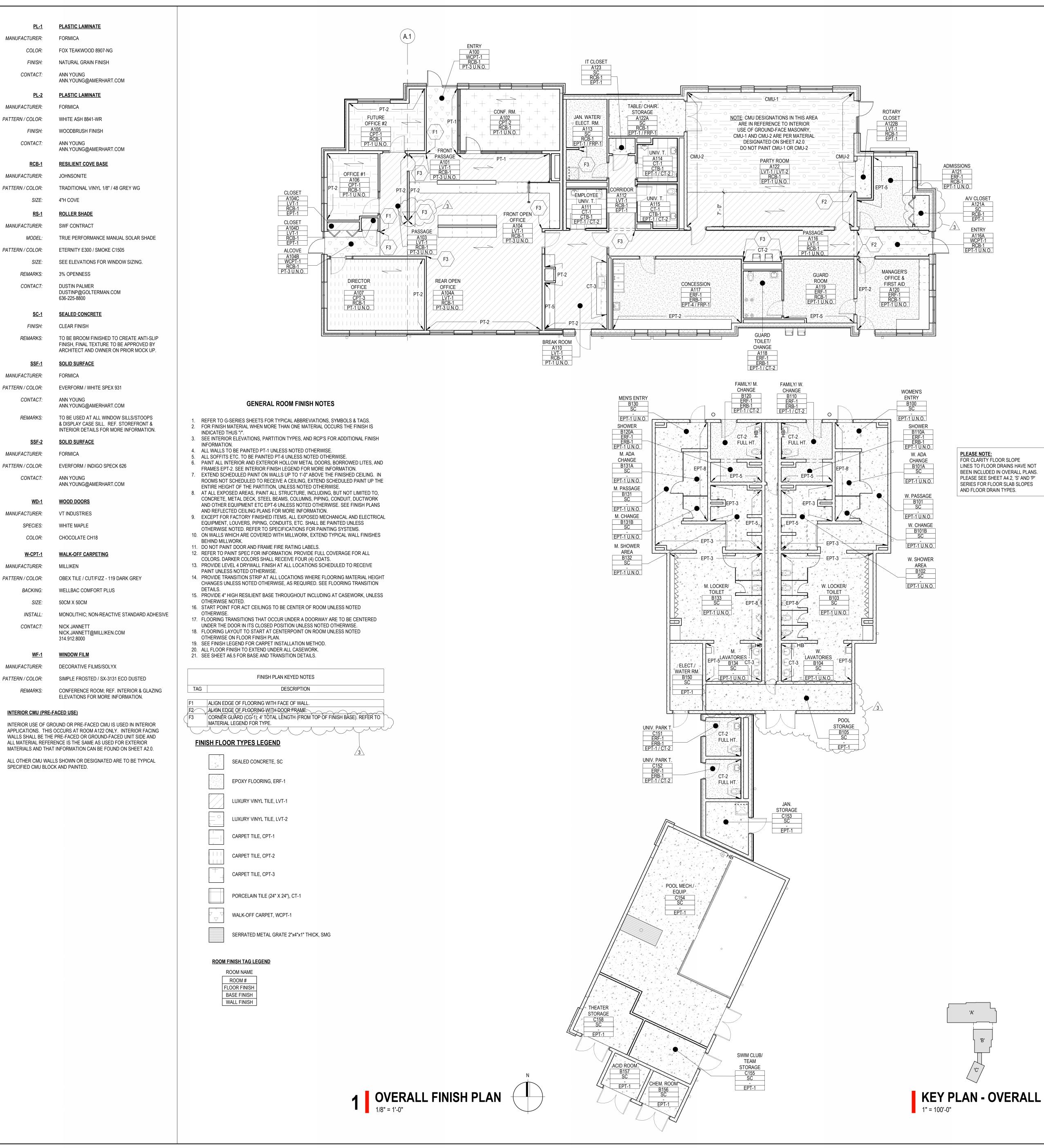
6-5/16"

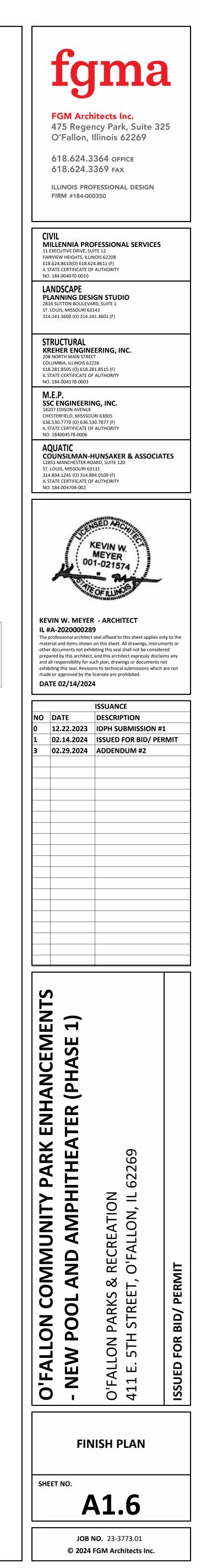
A00408

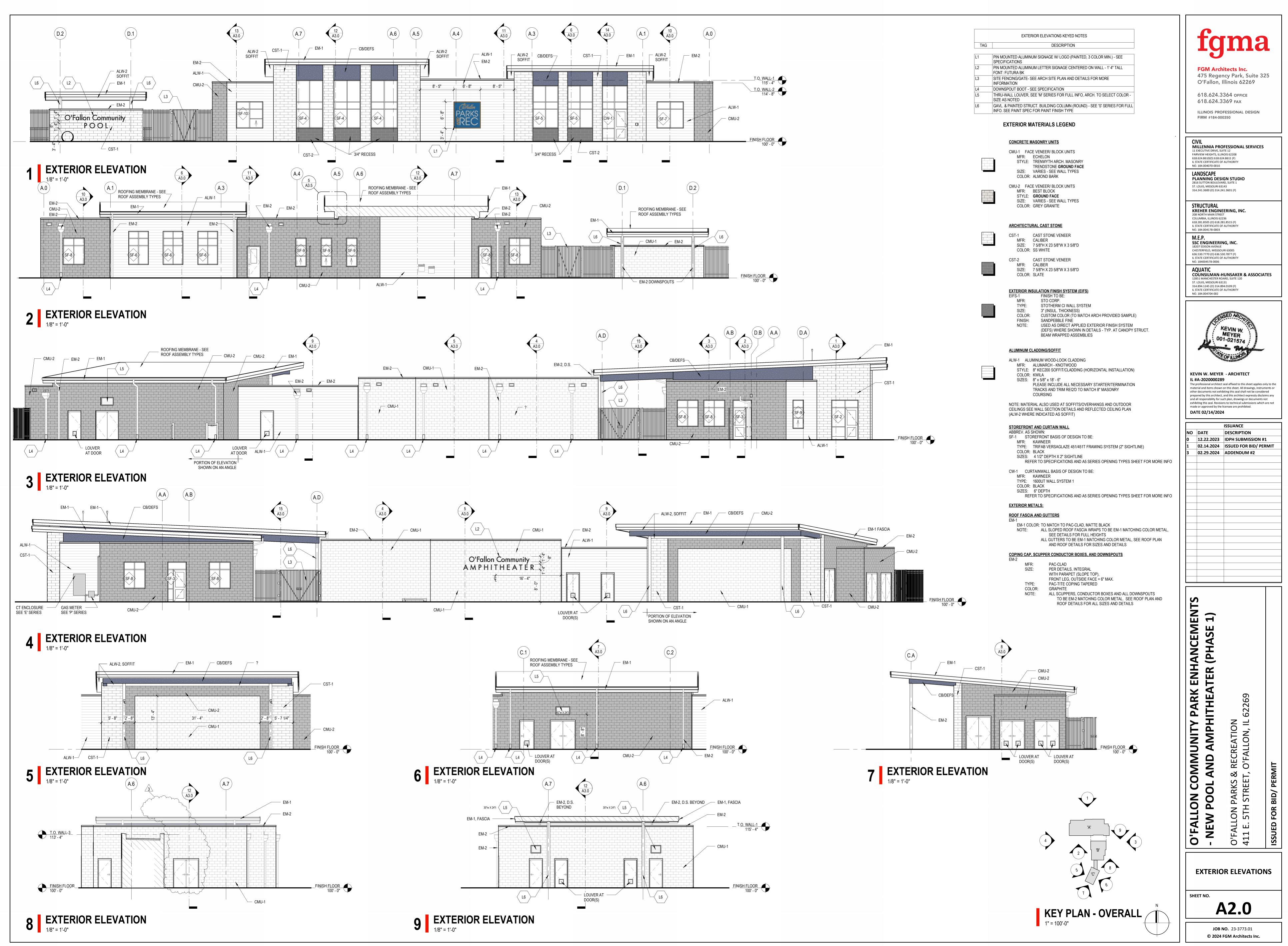
4.5MI

HARDWARE - CASEWORK PULLS

DP55 SERIES - 5/16" DIA. ROD DRAWER PULL

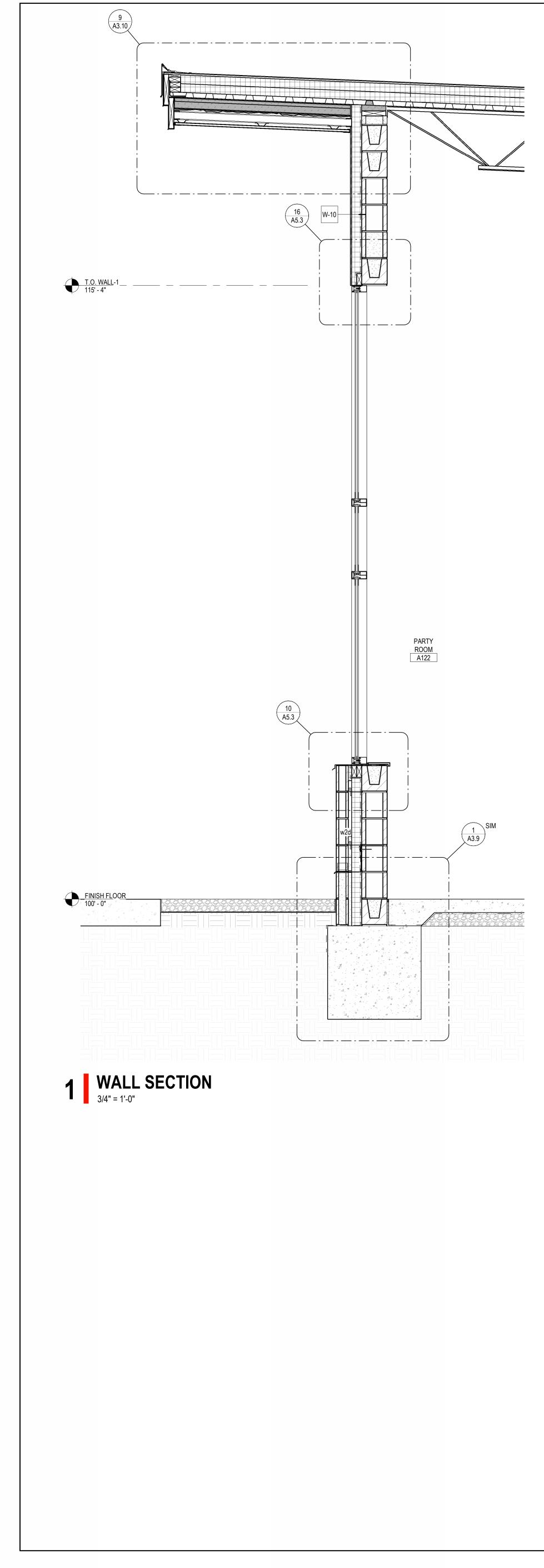


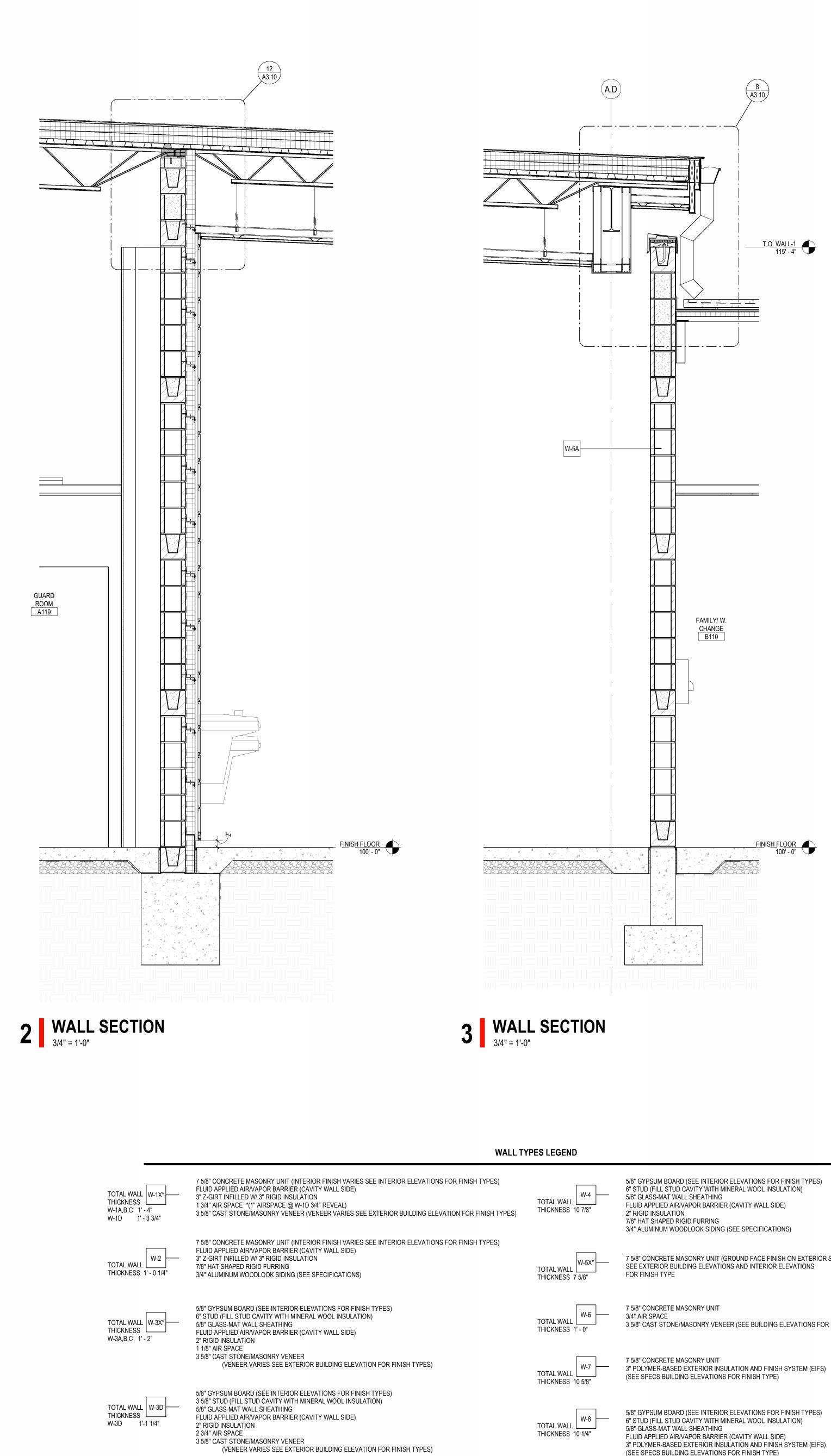


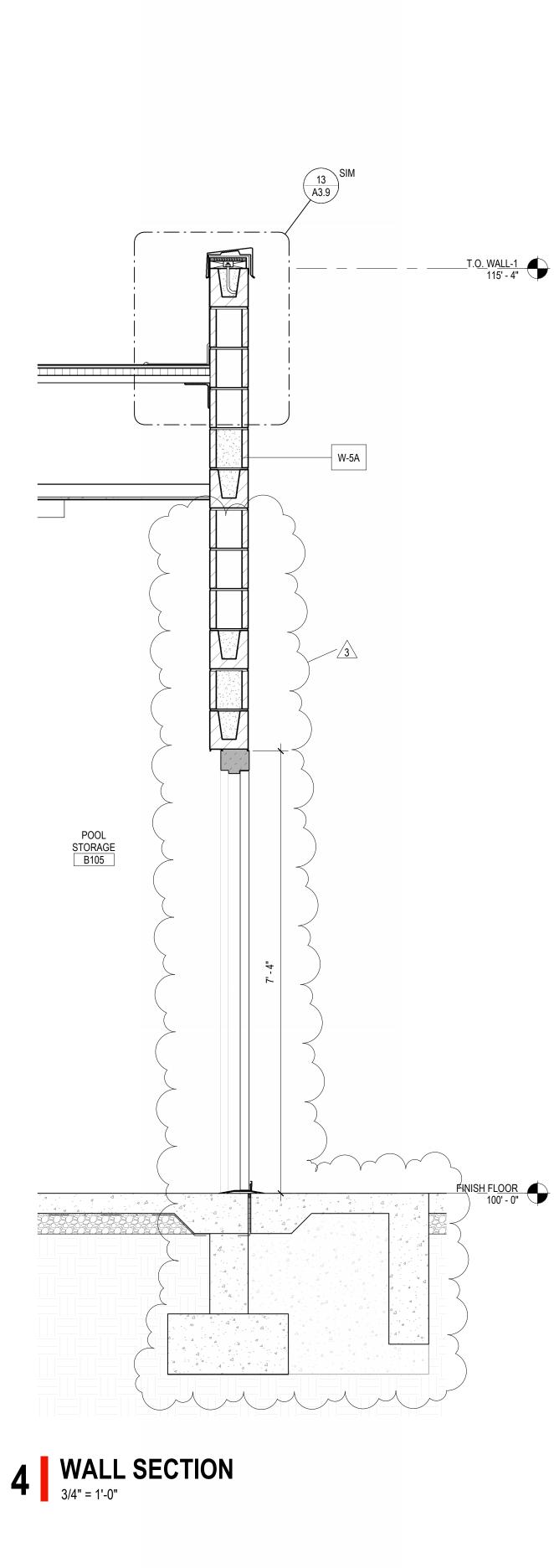


2/29/2024 12:44:12 PM C:\revit temp\2022\23-3773.(copyright 2024 FGM ARCHITECTS INC.









5/8" GYPSUM BOARD (SEE INTERIOR ELEVATIONS FOR FINISH TYPES)

7 5/8" CONCRETE MASONRY UNIT (GROUND FACE FINISH ON EXTERIOR SIDE) SEE EXTERIOR BUILDING ELEVATIONS AND INTERIOR ELEVATIONS

3 5/8" CAST STONE/MASONRY VENEER (SEE BUILDING ELEVATIONS FOR FINISH TYPE)

5/8" GYPSUM BOARD (SEE INTERIOR ELEVATIONS FOR FINISH TYPES) 3" POLYMER-BASED EXTERIOR INSULATION AND FINISH SYSTEM (EIFS)

X* FINISH VARIES SEE BUILDING ELEVATIONS

A - TRENDSTONE ALMOND BARK (GROUNDFACE) B - TRENDSTONE COUNTY GRAY (GROUNDFACE) C - CAST STONE 'SS WHITE' D - CAST STONE 'SLATE'

GENERAL WALL DETAIL NOTES

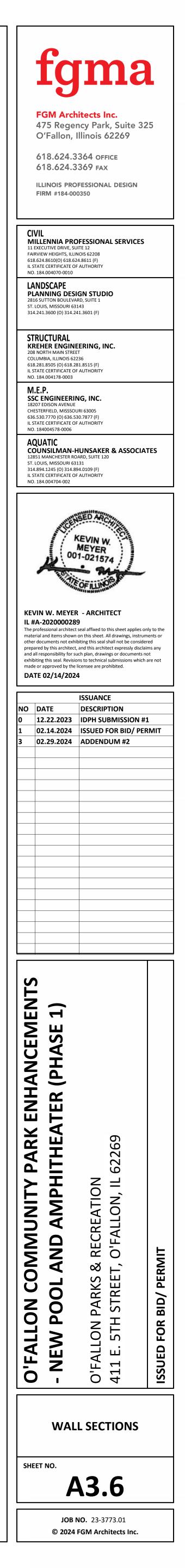
GENERAL WALL SECTION NOTES

ALL MASONRY WALLS TO BE REINFORCED. JOINT REINFORCING @ EACH SECOND COURSE AND 1 COURSE ABOVE AND BELOW ALL OPENINGS.

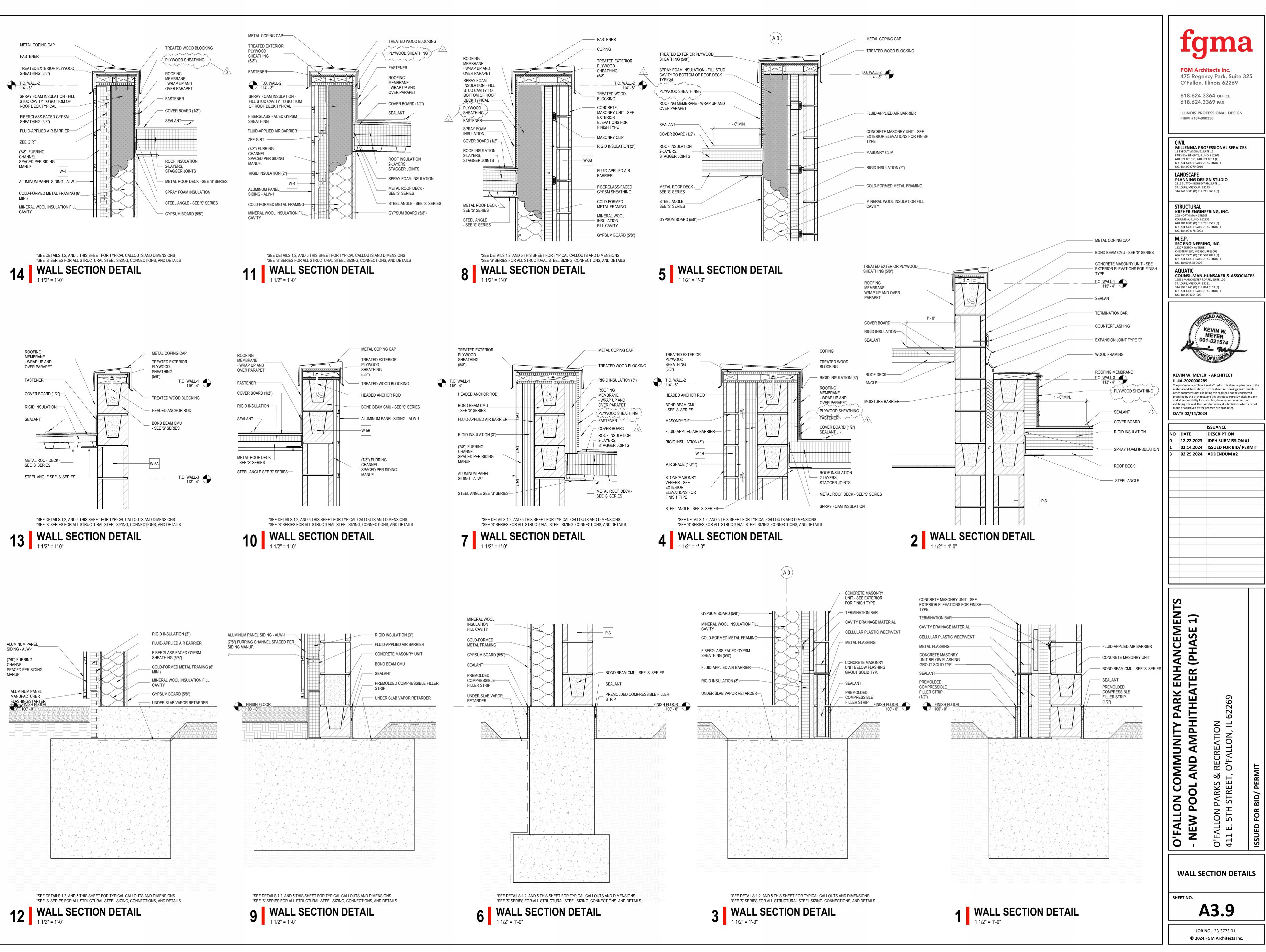
2. FOR MASONRY CMU REINFORCING REFER TO WALL TYPES AND STRUCTURAL

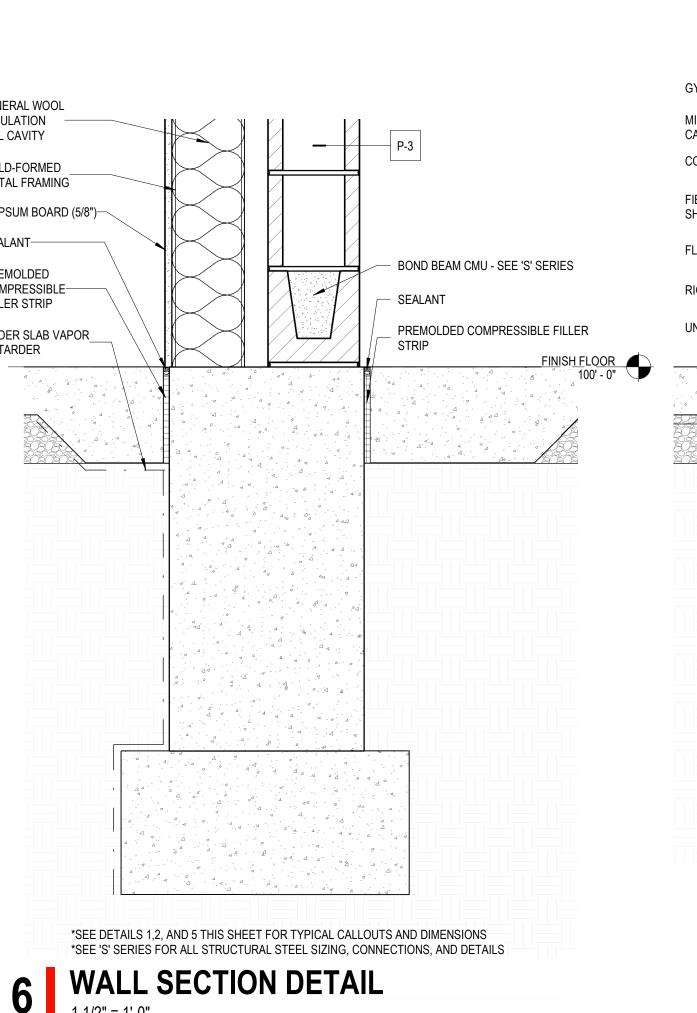
DRAWINGS.

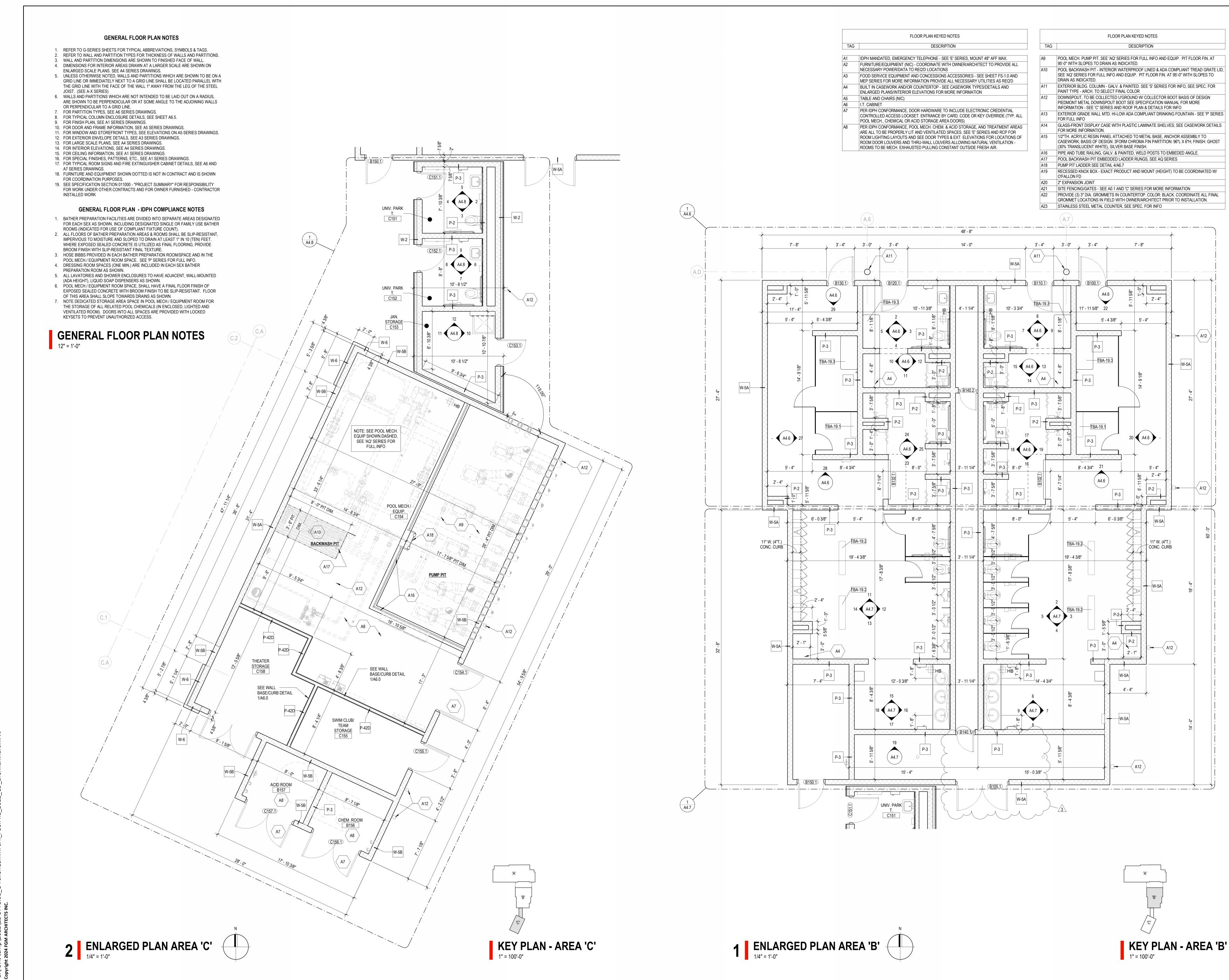
- 1. ALL MASONRY WALLS TO BE REINFORCED. JOINT REINFORCEMENT @ EACH SECOND COURSE & 1 COURSE ABOVE & BELOW ALL OPENINGS. 2. FOR WALL FINISHES SEE FINISH PLANS AND INT. & EXT. ELEVATIONS
- 3. REFER TO MISCELLANEOUS DETAILS AND SPECIFICATIONS FOR EXPANSION JOINT DETAILS AND INFORMATION. 4. REFER TO ROOF PLAN FOR LOCATIONS AND SPECIFICATIONS FOR DESCRIPTION OF INSULATION AND ROOF ASSEMBLY.
- 5. ALL PARTITIONS EXTEND TO UNDERSIDE OF DECK, UNLESS NOTED OTHERWISE. 6. SEE CODE COMPLIANCE PLANS G SERIES DRAWINGS FOR LOCATION OF RATED PARTITIONS. PROVIDE UL DESIGN TO ACHIEVE RATINGS INDICATED.



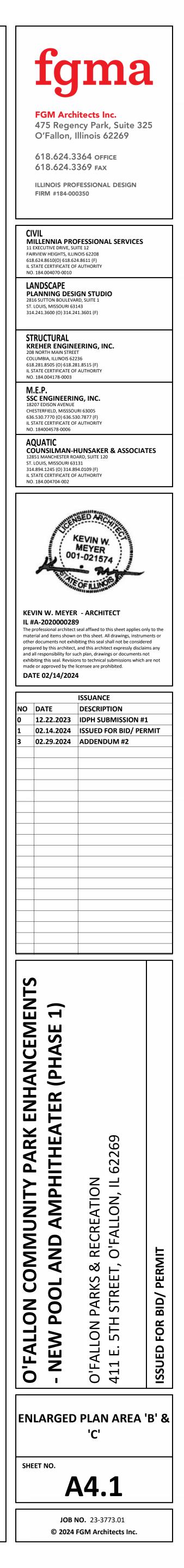




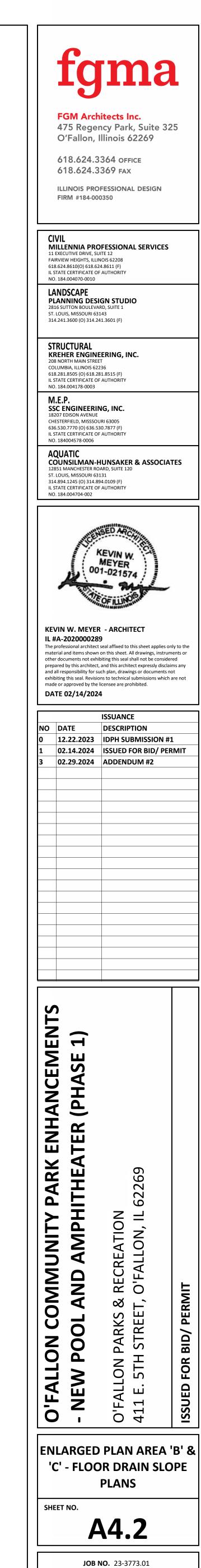




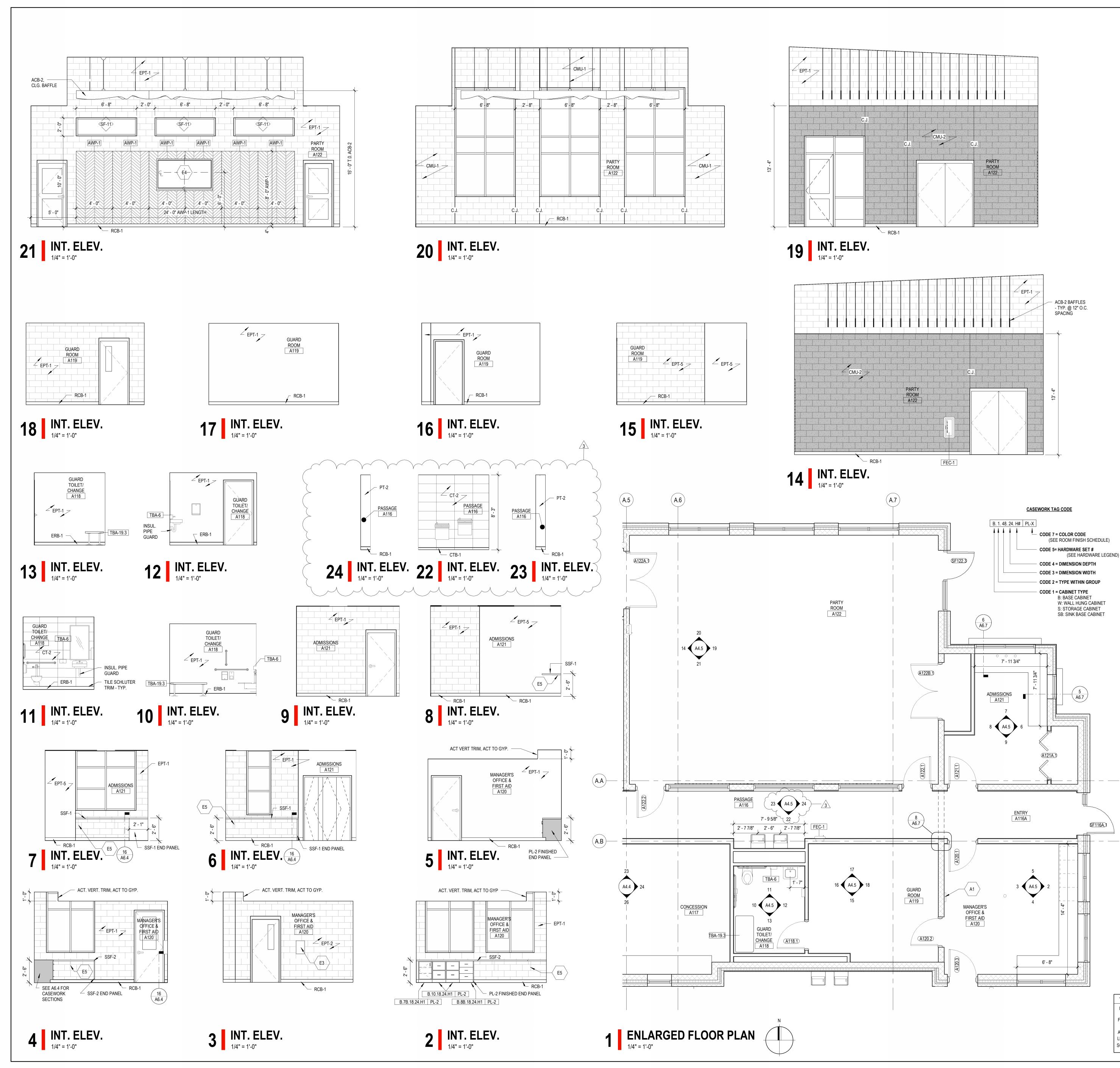
2/29/2024 12:56:15 PM C:\revit temp\2022\23-3773 copyright 2024 FGM ARCHITECTS INC.







JOB NO. 23-3773.01 © 2024 FGM Architects Inc.



2/29/2024 1:22:44 PM C:\revit temp\2022\23-3773.01_O'FallonCommPark_PoolPh1_2022_CD_brennan.hartii copyright 2024 FGM ARCHITECTS INC.

	FLOOR PLAN KEYED NOTES
TAG	DESCRIPTION
A1	IDPH MANDATED, EMERGENCY TELEPHONE - SEE 'E' SERIES, MOUNT 48" AFF MAX.
A2	FURNITURE/EQUIPMENT (NIC) - COORDINATE WITH OWNER/ARCHITECT TO PROVIDE ALI NECESSARY POWER/DATA TO REQ'D LOCATIONS
A3	FOOD SERVICE EQUIPMENT AND CONCESSIONS ACCESSORIES - SEE SHEET FS-1.0 AND MEP SERIES FOR MORE INFORMATION PROVIDE ALL NECESSARY UTILITIES AS REQ'D
A4	BUILT IN CASEWORK AND/OR COUNTERTOP - SEE CASEWORK TYPES/DETAILS AND ENLARGED PLANS/INTERIOR ELEVATIONS FOR MORE INFORMATION
A5	TABLE AND CHAIRS (NIC)
A6	I.T. CABINET
A7	PER IDPH CONFORMANCE, DOOR HARDWARE TO INCLUDE ELECTRONIC CREDENTIAL CONTROLLED ACCESS LOCKSET. ENTRANCE BY CARD, CODE OR KEY OVERRIDE (TYP. / POOL MECH., CHEMICAL OR ACID STORAGE AREA DOORS)
A8	PER IDPH CONFORMANCE, POOL MECH. CHEM. & ACID STORAGE, AND TREATMENT ARE ARE ALL TO BE PROPERLY LIT AND VENTILATED SPACES. SEE 'E' SERIES AND RCP FOR ROOM LIGHTING LAYOUTS AND SEE DOOR TYPES & EXT. ELEVATIONS FOR LOCATIONS ROOM DOOR LOUVERS AND THRU-WALL LOUVERS ALLOWING NATURAL VENTILATION - ROOMS TO BE MECH. EXHAUSTED PULLING CONSTANT OUTSIDE FRESH AIR.
A9	POOL MECH. PUMP PIT, SEE 'AQ' SERIES FOR FULL INFO AND EQUIP. PIT FLOOR FIN. AT 95'-0" WITH SLOPES TO DRAIN AS INDICATED.
A10	POOL BACKWASH PIT - INTERIOR WATERPROOF LINED & ADA COMPLIANT TREAD GRATE SEE 'AQ' SERIES FOR FULL INFO AND EQUIP. PIT FLOOR FIN. AT 95'-0" WITH SLOPES TO DRAIN AS INDICATED.
A11	EXTERIOR BLDG. COLUMN - GALV. & PAINTED. SEE 'S' SERIES FOR INFO, SEE SPEC. FOR PAINT TYPE - ARCH. TO SELECT FINAL COLOR
A12	DOWNSPOUT, TO BE COLLECTED U'GROUND W/ COLLECTOR BOOT BASIS OF DESIGN PIEDMONT METAL DOWNSPOUT BOOT SEE SPECIFICATION MANUAL FOR MORE INFORMATION - SEE 'C' SERIES AND ROOF PLAN & DETAILS FOR INFO
A13	EXTERIOR GRADE WALL MTD. HI-LOW ADA COMPLIANT DRINKING FOUNTAIN - SEE 'P' SE FOR FULL INFO
A14	GLASS-FRONT DISPLAY CASE WITH PLASTIC LAMINATE SHELVES; SEE CASEWORK DETA FOR MORE INFORMATION.
A15	1/2"TH. ACRYLIC RESIN PANEL ATTACHED TO METAL BASE, ANCHOR ASSEMBLY TO CASEWORK; BASIS OF DESIGN: 3FORM CHROMA FIN PARTITION: 96"L X 6"H; FINISH: GHC (30% TRANSLUCENT WHITE), SILVER BASE FINISH.
A16	PIPE AND TUBE RAILING, GALV. & PAINTED, WELD POSTS TO EMBEDED ANGLE.
A17	POOL BACKWASH PIT EMBEDDED LADDER RUNGS, SEE AQ SERIES
A18	PUMP PIT LADDER SEE DETAIL 4/A6.7
A19	RECESSED KNOX BOX - EXACT PRODUCT AND MOUNT (HEIGHT) TO BE COORDINATED W
A20	
A21	SITE FENCING/GATES - SEE A0.1 AND 'C' SERIES FOR MORE INFORMATION
A22 A23	PROVIDE (3) 3" DIA. GROMMETS IN COUNTERTOP. COLOR: BLACK. COORDINATE ALL FIN/ GROMMET LOCATIONS IN FIELD WITH OWNER/ARCHITECT PRIOR TO INSTALLATION. STAINLESS STEEL METAL COUNTER, SEE SPEC. FOR INFO
AZJ	STAINLESS STEEL METAL COUNTER, SEE SPEC. FOR INFO
	INTERIOR ELEVATON KEYED NOTES
TAG	DESCRIPTION
E1	
E1	GLASS-FRONT DISPLAY CASE WITH ADJUSTABLE GLASS SHELVES & LOCKABLE, PIVOT-HINGE DOORS; SEE CASEWORK DETAIL SHEET A6.4 FOR MORE INFORMATION.
E2	1/2"TH. ACRYLIC RESIN PANEL ATTACHED TO METAL FRAMING; ANCHOR ASSEMBLY TO FLOOR, 3" MAX FROM FACE OF CASEWORK; BASIS OF DESIGN: 3FORM ILTUO CANTILEVE L-SHAPED 2 PANEL PARTITION: 4'-0"W X 8'-0" H; FINISH: VARIA WHISPER PANEL (ARP-1), BLACK FRAME FINISH. SEE INTERIOR MATERIAL LEGEND FOR MORE INFORMATION.
E3	POOL EMERGENCY PHONE PER IDPH REGULATION, SEE 'E' SERIES FOR FURTHER INFO
E4	WALL MOUNTED TELEVISION (OFCI). PROVIDE BLOCKING IN WALL IN LOCATIONS INDICA

 BLACK FRAME FINISH. SEE INTERIOR MATERIAL LEGEND FOR MORE INFORMATION.

 POOL EMERGENCY PHONE PER IDPH REGULATION, SEE 'E' SERIES FOR FURTHER INFO

 WALL MOUNTED TELEVISION (OFCI). PROVIDE BLOCKING IN WALL IN LOCATIONS INDICATED ON PLAN. COORDINATE FINAL LOCATION WITH OWNER. SEE INTERIOR DETAILS FOR MORE INFORMATION.

 COUNTERTOP SUPPORT BRACKET @ 24" O.C. MAX. REFERENCE CASEWORK DETAIL SHEET A6.4 FOR MORE INFORMATION.

 SCHLUTER DILEX-AHK COVE BASE OR APPROVED EQUAL. SEE DTL 5/A6.5

 LIGHT FIXTURE. SEE 'E' SERIES FOR MORE INFORMATION.

 ALIGN SEAMS OF (FRP-1) PANELS WITH WINDOWS.

GENERAL FLOOR PLAN NOTES

- REFER TO G-SERIES SHEETS FOR TYPICAL ABBREVIATIONS, SYMBOLS & TAGS.
 REFER TO WALL AND PARTITION TYPES FOR THICKNESS OF WALLS AND PARTITIONS.
- WALL AND PARTITION DIMENSIONS ARE SHOWN TO FINISHED FACE OF WALL. DIMENSIONS FOR INTERIOR AREAS DRAWN AT A LARGER SCALE ARE SHOWN ON
- ENLARGED SCALE PLANS. SEE A4 SERIES DRAWINGS. 5. UNLESS OTHERWISE NOTED, WALLS AND PARTITIONS WHICH ARE SHOWN TO BE ON A
- GRID LINE OR IMMEDIATELY NEXT TO A GRID LINE SHALL BE LOCATED PARALLEL WITH THE GRID LINE WITH THE FACE OF THE WALL 1" AWAY FROM THE LEG OF THE STEEL JOIST. (SEE A-X SERIES)
- WALLS AND PARTITIONS WHICH ARE NOT INTENDED TO BE LAID OUT ON A RADIUS, ARE SHOWN TO BE PERPENDICULAR OR AT SOME ANGLE TO THE ADJOINING WALLS
- OR PERPENDICULAR TO A GRID LINE. FOR PARTITION TYPES, SEE A6 SERIES DRAWINGS.
- FOR TYPICAL COLUMN ENCLOSURE DETAILS, SEE SHEET A6.5.
 FOR FINISH PLAN, SEE A1 SERIES DRAWINGS.
- FOR DOOR AND FRAME INFORMATION, SEE A5 SERIES DRAWINGS.
 FOR WINDOW AND STOREFRONT TYPES, SEE ELEVATIONS ON A5 SERIES DRAWINGS.
- FOR EXTERIOR ENVELOPE DETAILS, SEE A3 SERIES DRAWINGS.
 FOR LARGE SCALE PLANS, SEE A4 SERIES DRAWINGS.
 FOR INTERIOR ELEVATIONS, SEE A4 SERIES DRAWINGS.
- FOR CEILING INFORMATION, SEE A1 SERIES DRAWINGS.
 FOR SPECIAL FINISHES, PATTERNS, ETC., SEE A1 SERIES DRAWINGS.
- 17. FOR TYPICAL ROOM SIGNS AND FIRE EXTINGUISHER CABINET DETAILS, SEE A6 AND A7 SERIES DRAWINGS.
- 18. FURNITURE AND EQUIPMENT SHOWN DOTTED IS NOT IN CONTRACT AND IS SHOWN FOR COORDINATION PURPOSES.
- 19. SEE SPECIFICATION SECTION 011000 "PROJECT SUMMARY" FOR RESPONSIBILITY FOR WORK UNDER OTHER CONTRACTS AND FOR OWNER FURNISHED - CONTRACTOR INSTALLED WORK

GENERAL FLOOR PLAN - IDPH COMPLIANCE NOTES

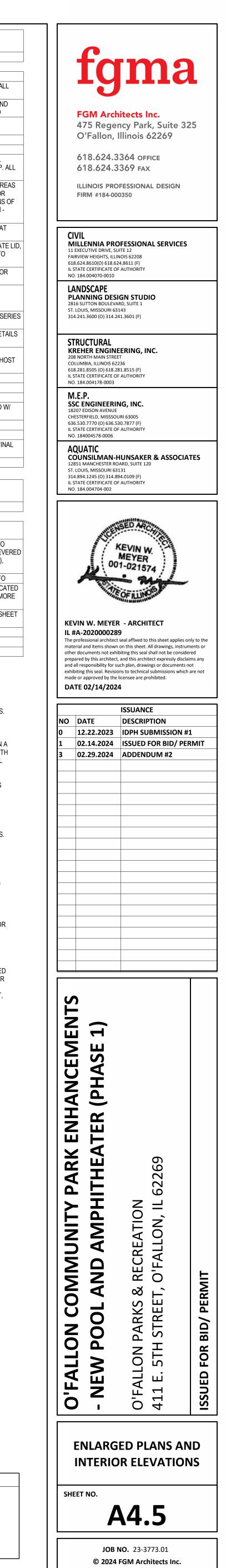
- 1. BATHER PREPARATION FACILITIES ARE DIVIDED INTO SEPARATE AREAS DESIGNATED FOR EACH SEX AS SHOWN, INCLUDING DESIGNATED SINGLE OR FAMILY USE BATHER
- ROOMS (INDICATED FOR USE OF COMPLIANT FIXTURE COUNT).
 ALL FLOORS OF BATHER PREPARATION AREAS & ROOMS SHALL BE SLIP-RESISTANT
- IMPERVIOUS TO MOISTURE AND SLOPED TO DRAIN AT LEAST 1" IN 10 (TEN) FEET. WHERE EXPOSED SEALED CONCRETE IS UTILIZED AS FINAL FLOORING, PROVIDE BROOM FINISH WITH SLIP-RESISTANT FINAL TEXTURE.
- 3. HOSE BIBBS PROVIDED IN EACH BATHER PREPARATION ROOM/SPACE AND IN THE POOL MECH./ EQUIPMENT ROOM SPACE. SEE 'P' SERIES FOR FULL INFO.
- 4. DRESSING ROOM SPACES (ONE MIN.) ARE INCLUDED IN EACH SEX BATHER PREPARATION ROOM AS SHOWN.
- ALL LAVATORIES AND SHOWER ENCLOSURES TO HAVE ADJACENT, WALL-MOUNTED (ADA HEIGHT), LIQUID SOAP DISPENSERS AS SHOWN.
- 6. POOL MECH./ EQUIPMENT ROOM SPACE, SHALL HAVE A FINAL FLOOR FINISH OF EXPOSED SEALED CONCRETE WITH BROOM FINISH TO BE SLIP-RESISTANT. FLOOR
- OF THIS AREA SHALL SLOPE TOWARDS DRAINS AS SHOWN.
 7. NOTE DEDICATED STORAGE AREA SPACE IN POOL MECH./ EQUIPMENT ROOM FOR THE STORAGE OF ALL RELATED POOL CHEMICALS (IN ENCLOSED, LIGHTED AND VENTILATED ROOM). DOORS INTO ALL SPACES ARE PROVIDED WITH LOCKED KEYSETS TO PREVENT UNAUTHORIZED ACCESS.

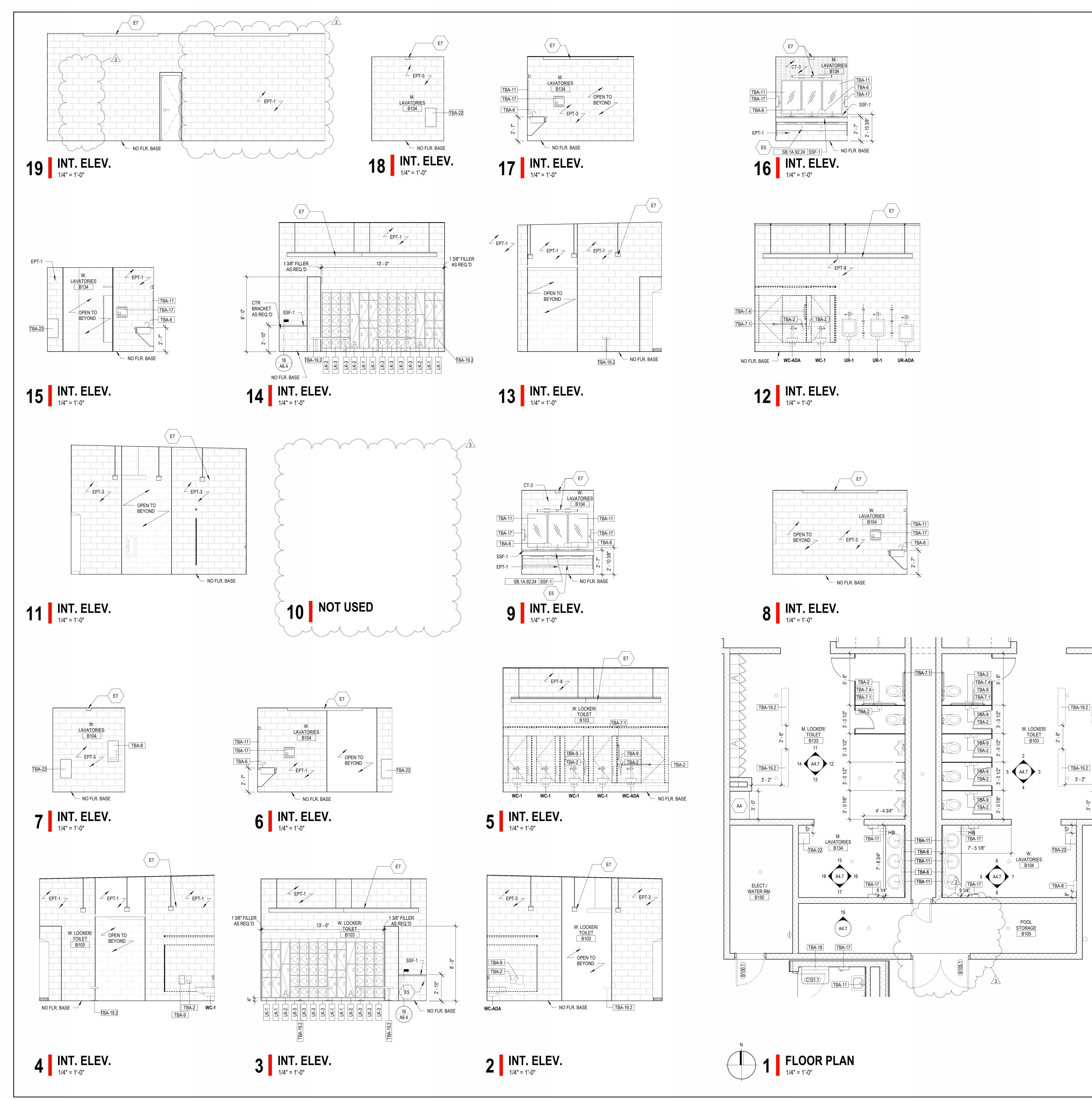
TOILET & BATH ACCESSORY SCHEDULE

TAG	DESCRIPTION
TBA-1	PAPER TOWEL DISPENSER
TBA-2	TOILET TISSUE DISPENSER
TBA-3	NOT USED
TBA-4	NOT USED
TBA-5	NOT USED
	SOAP DISPENSER
TBA-7	GRAB BAR
	TBA-7.1 = ADA TOILET BARS
	TBA-7.2 = 36"x36" ADA SHOWER BARS
	TBA-7.3 = 36"x60" ADA SHOWER BARS
	TBA-7.4 = SINGLE VERTICAL BAR (18" LONG)
	SANITARY NAPKIN VENDOR
TBA-9	SANITARY NAPKIN DISPOSAL UNIT
	NOT USED
TBA-11	24"W X 42"T MIRROR UNIT (ADA HEIGHT)
	SHOWER ROD & CURTAIN
TBA-13	NOT USED
TBA-14	FOLDING SHOWER SEAT
	ROBE HOOK
	MOP AND BROOM HOLDER WITH SHELF
TBA-18	DIAPER CHANGING TABLE (FOLD DOWN)
TBA-19	
	TBA-19.1 = 3'-0" x 9 1/2" CHANGING BENCH
	TBA-19.2 = 4'-0" x 9 1/2" CHANGING BENCH
TD 4 00	TBA-19.3 = 4'-0" x 2'-0" ADA CHANGING BENCH
	SUIT SPINNER DEVICE (SEE 'E' SERIES FOR POWER)
TBA-21	UNDER LAVATORY GUARD

SPECIALTY EQUIPMENT SCHEDULE

TAG	DESCRIPTION	TAG	DESCRIPTION
FE-1 FEC-1	FIRE EXTINGUISHER & MOUNTING BRACKET FIRE EXTINGUISHER CABINET	RA- # TBA- #	RESIDENTIAL APPLIANCE (SEE RA LEGEND) TOILET AND BATH ACCESSORY
AED-1 LKR-# SGN-#	(SEMI-RECESSED) 1 AED CABINET (SEMI-RECESSED) # LOCKER (SEE LOCKER TYPES)	FTP- #	(SEE A4 SERIES DRAWINGS) FABRIC-WRAPPED TACK PANEL (SEE MATERIAL LEGEND) ACOUSTIC WALL PANEL
	,		(SEE MATERIAL LEGEND)





2/29/2024 1:29:44 PM C:\revit temp\2022\23-3773.01_O'FallonCommPark_PoolPh1_2022_CD_brennan.hartin.rvt copyright 2024 FGM ARCHITECTS INC.

	FLOOR PLAN KEYED NOTES
TAG	DESCRIPTION
A1	IDPH MANDATED, EMERGENCY TELEPHONE - SEE 'E' SERIES, MOUNT 48" AFF MAX.
A2	FURNITURE/EQUIPMENT (NIC) - COORDINATE WITH OWNER/ARCHITECT TO PROVIDE A NECESSARY POWER/DATA TO REQ'D LOCATIONS
A3	FOOD SERVICE EQUIPMENT AND CONCESSIONS ACCESSORIES - SEE SHEET FS-1.0 AI MEP SERIES FOR MORE INFORMATION PROVIDE ALL NECESSARY UTILITIES AS REQ'D
A4	BUILT IN CASEWORK AND/OR COUNTERTOP - SEE CASEWORK TYPES/DETAILS AND ENLARGED PLANS/INTERIOR ELEVATIONS FOR MORE INFORMATION
A5	TABLE AND CHAIRS (NIC)
A6	I.T. CABINET
A7	PER IDPH CONFORMANCE, DOOR HARDWARE TO INCLUDE ELECTRONIC CREDENTIAL CONTROLLED ACCESS LOCKSET. ENTRANCE BY CARD, CODE OR KEY OVERRIDE (TYP POOL MECH., CHEMICAL OR ACID STORAGE AREA DOORS)
A8	PER IDPH CONFORMANCE, POOL MECH. CHEM. & ACID STORAGE, AND TREATMENT AF ARE ALL TO BE PROPERLY LIT AND VENTILATED SPACES. SEE 'E' SERIES AND RCP FO ROOM LIGHTING LAYOUTS AND SEE DOOR TYPES & EXT. ELEVATIONS FOR LOCATION ROOM DOOR LOUVERS AND THRU-WALL LOUVERS ALLOWING NATURAL VENTILATION ROOMS TO BE MECH. EXHAUSTED PULLING CONSTANT OUTSIDE FRESH AIR.
A9	POOL MECH. PUMP PIT, SEE 'AQ' SERIES FOR FULL INFO AND EQUIP. PIT FLOOR FIN. A 95'-0" WITH SLOPES TO DRAIN AS INDICATED.
A10	POOL BACKWASH PIT - INTERIOR WATERPROOF LINED & ADA COMPLIANT TREAD GRA SEE 'AQ' SERIES FOR FULL INFO AND EQUIP. PIT FLOOR FIN. AT 95'-0" WITH SLOPES T DRAIN AS INDICATED.
A11	EXTERIOR BLDG. COLUMN - GALV. & PAINTED. SEE 'S' SERIES FOR INFO, SEE SPEC. FO PAINT TYPE - ARCH. TO SELECT FINAL COLOR
A12	DOWNSPOUT, TO BE COLLECTED U'GROUND W/ COLLECTOR BOOT BASIS OF DESIGN PIEDMONT METAL DOWNSPOUT BOOT SEE SPECIFICATION MANUAL FOR MORE INFORMATION - SEE 'C' SERIES AND ROOF PLAN & DETAILS FOR INFO
A13	EXTERIOR GRADE WALL MTD. HI-LOW ADA COMPLIANT DRINKING FOUNTAIN - SEE 'P' S FOR FULL INFO
A14	GLASS-FRONT DISPLAY CASE WITH PLASTIC LAMINATE SHELVES; SEE CASEWORK DE FOR MORE INFORMATION.
A15	1/2"TH. ACRYLIC RESIN PANEL ATTACHED TO METAL BASE, ANCHOR ASSEMBLY TO CASEWORK; BASIS OF DESIGN: 3FORM CHROMA FIN PARTITION: 96"L X 6"H; FINISH: GF (30% TRANSLUCENT WHITE), SILVER BASE FINISH.
A16	PIPE AND TUBE RAILING, GALV. & PAINTED, WELD POSTS TO EMBEDED ANGLE.
A17	POOL BACKWASH PIT EMBEDDED LADDER RUNGS, SEE AQ SERIES
A18	PUMP PIT LADDER SEE DETAIL 4/A6.7
A19	RECESSED KNOX BOX - EXACT PRODUCT AND MOUNT (HEIGHT) TO BE COORDINATED O'FALLON FD
A20	2" EXPANSION JOINT
A21	SITE FENCING/GATES - SEE A0.1 AND 'C' SERIES FOR MORE INFORMATION
A22	PROVIDE (3) 3" DIA. GROMMETS IN COUNTERTOP. COLOR: BLACK. COORDINATE ALL F GROMMET LOCATIONS IN FIELD WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.
A23	STAINLESS STEEL METAL COUNTER, SEE SPEC. FOR INFO
	INTERIOR ELEVATON KEYED NOTES
TAG	DESCRIPTION
E1	GLASS-FRONT DISPLAY CASE WITH ADJUSTABLE GLASS SHELVES & LOCKABLE, PIVOT-HINGE DOORS; SEE CASEWORK DETAIL SHEET A6.4 FOR MORE INFORMATION.
E2	1/2"TH. ACRYLIC RESIN PANEL ATTACHED TO METAL FRAMING; ANCHOR ASSEMBLY TO FLOOR, 3" MAX FROM FACE OF CASEWORK; BASIS OF DESIGN: 3FORM ILTUO CANTILE L-SHAPED 2 PANEL PARTITION: 4'-0"W X 8'-0" H; FINISH: VARIA WHISPER PANEL (ARP-1) BLACK FRAME FINISH. SEE INTERIOR MATERIAL LEGEND FOR MORE INFORMATION.
E3	POOL EMERGENCY PHONE PER IDPH REGULATION, SEE 'E' SERIES FOR FURTHER INF
E4	WALL MOUNTED TELEVISION (OFCI). PROVIDE BLOCKING IN WALL IN LOCATIONS INDIC ON PLAN. COORDINATE FINAL LOCATION WITH OWNER. SEE INTERIOR DETAILS FOR M INFORMATION.
E5	COUNTERTOP SUPPORT BRACKET @ 24" O.C. MAX. REFERENCE CASEWORK DETAIL S A6.4 FOR MORE INFORMATION.
E6	SCHLUTER DILEX-AHK COVE BASE OR APPROVED EQUAL. SEE DTL 5/A6.5
E7	LIGHT FIXTURE. SEE 'E' SERIES FOR MORE INFORMATION.

- GENERAL FLOOR PLAN NOTES
- REFER TO G-SERIES SHEETS FOR TYPICAL ABBREVIATIONS, SYMBOLS & TAGS. REFER TO WALL AND PARTITION TYPES FOR THICKNESS OF WALLS AND PARTITIONS.
- 2. REFER TO WALL AND PARTITION TYPES FOR THICKNESS OF WALLS AND PARTITION
 3. WALL AND PARTITION DIMENSIONS ARE SHOWN TO FINISHED FACE OF WALL.
- 4. DIMENSIONS FOR INTERIOR AREAS DRAWN AT A LARGER SCALE ARE SHOWN ON ENLARGED SCALE PLANS. SEE A4 SERIES DRAWINGS.
- UNLESS OTHERWISE NOTED, WALLS AND PARTITIONS WHICH ARE SHOWN TO BE ON A GRID LINE OR IMMEDIATELY NEXT TO A GRID LINE SHALL BE LOCATED PARALLEL WITH THE GRID LINE WITH THE FACE OF THE WALL 1" AWAY FROM THE LEG OF THE STEEL JOIST. (SEE A-X SERIES)
- 6. WALLS AND PARTITIONS WHICH ARE NOT INTENDED TO BE LAID OUT ON A RADIUS, ARE SHOWN TO BE PERPENDICULAR OR AT SOME ANGLE TO THE ADJOINING WALLS
- OR PERPENDICULAR TO A GRID LINE. 7. FOR PARTITION TYPES, SEE A6 SERIES DRAWINGS.

ALIGN SEAMS OF (FRP-1) PANELS WITH WINDOWS.

- FOR TYPICAL COLUMN ENCLOSURE DETAILS, SEE SHEET A6.5.
 FOR FINISH PLAN, SEE A1 SERIES DRAWINGS.
- FOR DOOR AND FRAME INFORMATION, SEE A5 SERIES DRAWINGS.
 FOR WINDOW AND STOREFRONT TYPES, SEE ELEVATIONS ON A5 SERIES DRAWINGS.
- FOR EXTERIOR ENVELOPE DETAILS, SEE A3 SERIES DRAWINGS.
 FOR LARGE SCALE PLANS, SEE A4 SERIES DRAWINGS.
- FOR INTERIOR ELEVATIONS, SEE A4 SERIES DRAWINGS.
 FOR CEILING INFORMATION, SEE A1 SERIES DRAWINGS.
- FOR SPECIAL FINISHES, PATTERNS, ETC., SEE A1 SERIES DRAWINGS.
 FOR TYPICAL ROOM SIGNS AND FIRE EXTINGUISHER CABINET DETAILS, SEE A6 AND
- A7 SERIES DRAWINGS. 18. FURNITURE AND EQUIPMENT SHOWN DOTTED IS NOT IN CONTRACT AND IS SHOWN
- FOR COORDINATION PURPOSES.
 19. SEE SPECIFICATION SECTION 011000 "PROJECT SUMMARY" FOR RESPONSIBILITY FOR WORK UNDER OTHER CONTRACTS AND FOR OWNER FURNISHED - CONTRACTOR INSTALLED WORK

GENERAL FLOOR PLAN - IDPH COMPLIANCE NOTES

- BATHER PREPARATION FACILITIES ARE DIVIDED INTO SEPARATE AREAS DESIGNATED FOR EACH SEX AS SHOWN, INCLUDING DESIGNATED SINGLE OR FAMILY USE BATHER ROOMS (INDICATED FOR USE OF COMPLIANT FIXTURE COUNT).
 ALL FLOORS OF BATHER PREPARATION AREAS & ROOMS SHALL BE SLIP-RESISTANT,
- IMPERVIOUS TO MOISTURE AND SLOPED TO DRAIN AT LEAST 1" IN 10 (TEN) FEET. WHERE EXPOSED SEALED CONCRETE IS UTILIZED AS FINAL FLOORING, PROVIDE BROOM FINISH WITH SLIP-RESISTANT FINAL TEXTURE.
- 3. HOSE BIBBS PROVIDED IN EACH BATHER PREPARATION ROOM/SPACE AND IN THE POOL MECH./ EQUIPMENT ROOM SPACE. SEE 'P' SERIES FOR FULL INFO.
- DRESSING ROOM SPACES (ONE MIN.) ARE INCLUDED IN EACH SEX BATHER PREPARATION ROOM AS SHOWN.
 ALL LAVATORIES AND SHOWER ENCLOSURES TO HAVE ADJACENT, WALL-MOUNTED
- ALL LAVATORIES AND SHOWER ENCLOSURES TO HAVE ADJACENT, WALL-MOUNTED (ADA HEIGHT), LIQUID SOAP DISPENSERS AS SHOWN.
 POOL MECH./ EQUIPMENT ROOM SPACE, SHALL HAVE A FINAL FLOOR FINISH OF
- EXPOSED SEALED CONCRETE WITH BROOM FINISH TO BE SLIP-RESISTANT. FLOOR OF THIS AREA SHALL SLOPE TOWARDS DRAINS AS SHOWN.
 7. NOTE DEDICATED STORAGE AREA SPACE IN POOL MECH./ EQUIPMENT ROOM FOR THE STORAGE OF ALL RELATED POOL CHEMICALS (IN ENCLOSED, LIGHTED AND

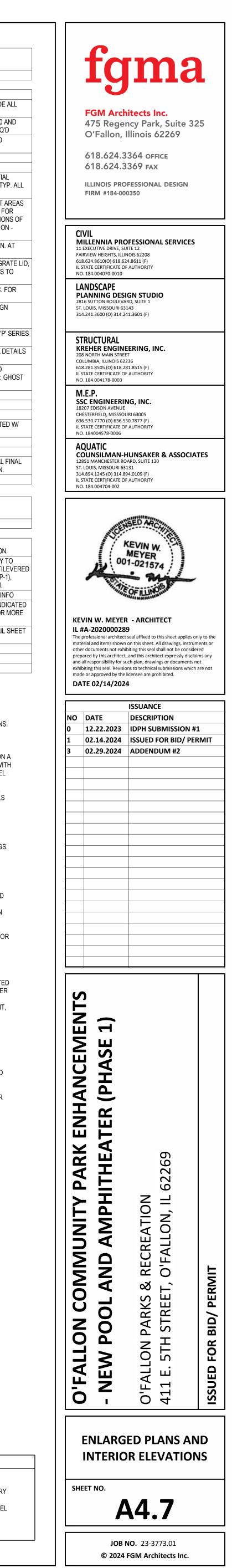
VENTILATED ROOM). DOORS INTO ALL SPACES ARE PROVIDED WITH LOCKED KEYSETS TO PREVENT UNAUTHORIZED ACCESS.

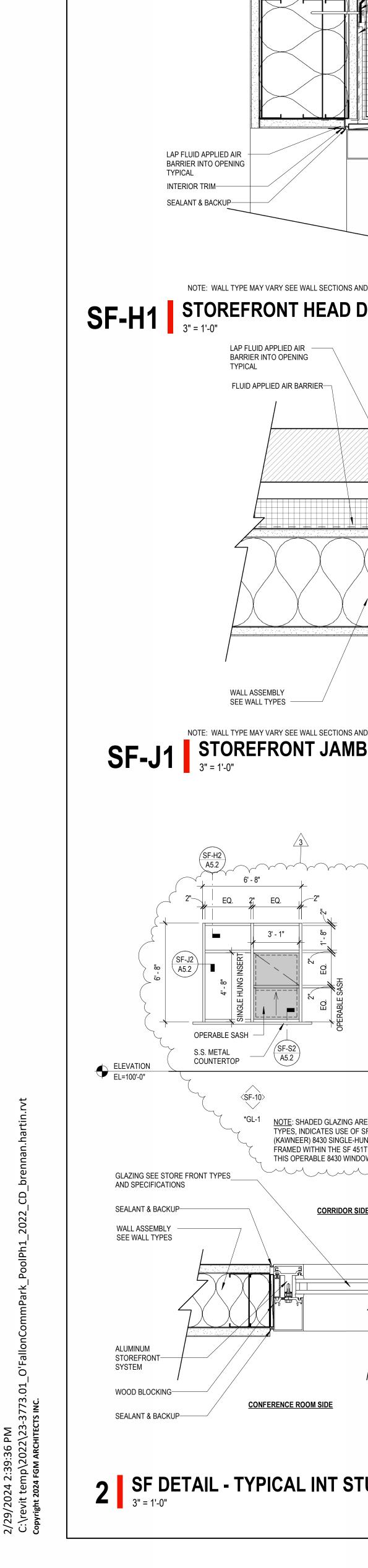
TOILET & BATH ACCESSORY SCHEDULE

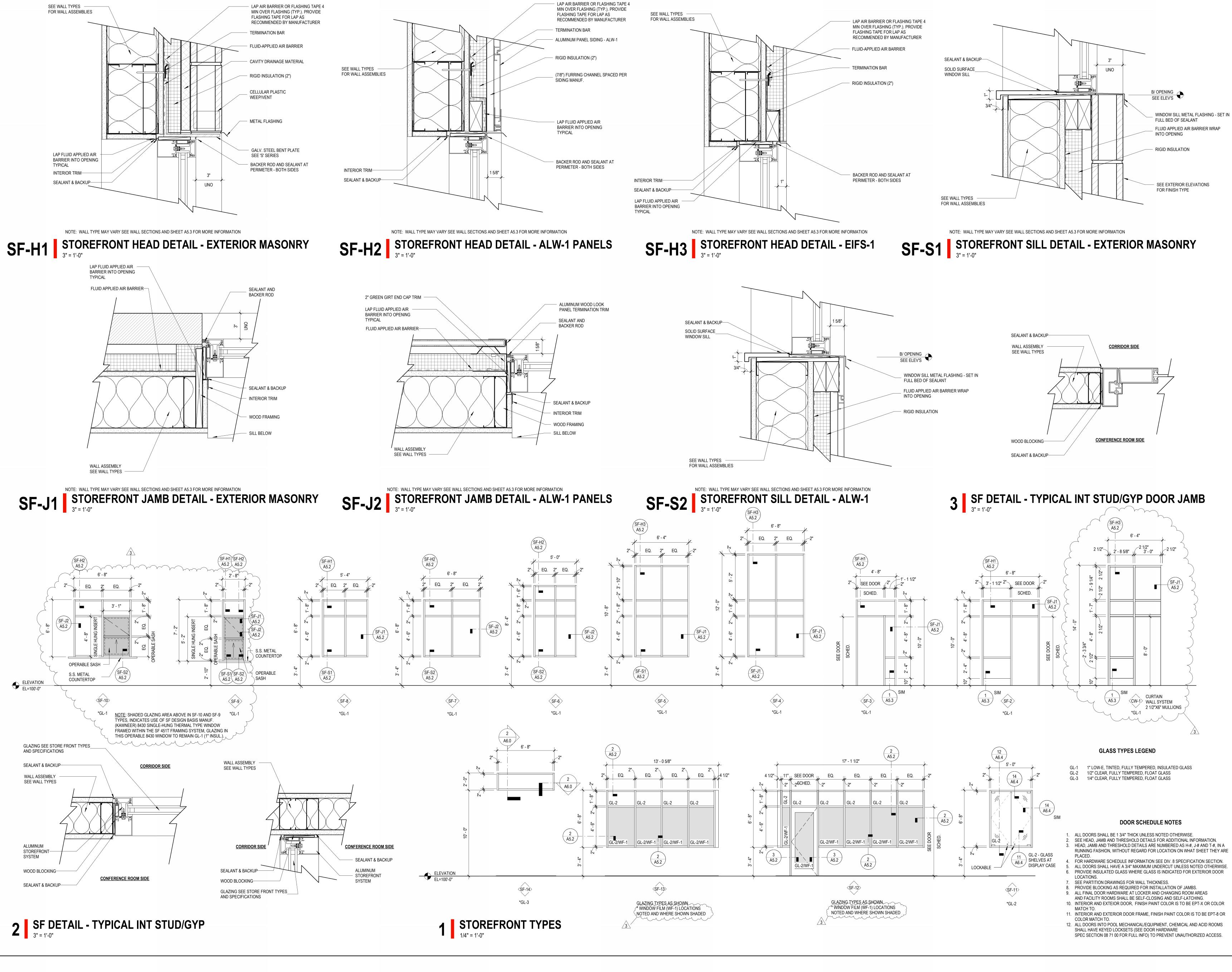
TAG	DESCRIPTION
TBA-1	PAPER TOWEL DISPENSER
TBA-2	TOILET TISSUE DISPENSER
TBA-3	NOT USED
TBA-4	NOT USED
-	NOT USED
TBA-6	SOAP DISPENSER
TBA-7	GRAB BAR
	TBA-7.1 = ADA TOILET BARS
	TBA-7.2 = 36"x36" ADA SHOWER BARS
	TBA-7.3 = 36"x60" ADA SHOWER BARS
	TBA-7.4 = SINGLE VERTICAL BAR (18" LONG)
TBA-8	SANITARY NAPKIN VENDOR
	SANITARY NAPKIN DISPOSAL UNIT
TBA-10	
TBA-11	24"W X 42"T MIRROR UNIT (ADA HEIGHT)
TBA-12	
TBA-13	
1	FOLDING SHOWER SEAT
TBA-15	
TBA-16	
	WARM AIR DRIER
	DIAPER CHANGING TABLE (FOLD DOWN)
TBA-19	CHANGING BENCH
	TBA-19.1 = 3'-0" x 9 1/2" CHANGING BENCH
	TBA-19.2 = 4'-0" x 9 1/2" CHANGING BENCH
	TBA-19.3 = 4'-0" x 2'-0" ADA CHANGING BENCH
TBA-22	SUIT SPINNER DEVICE (SEE 'E' SERIES FOR POWER)
TBA-21	UNDER LAVATORY GUARD

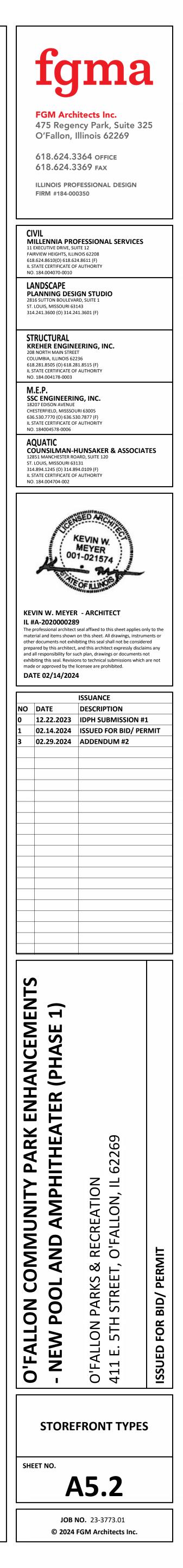
SPECIALTY EQUIPMENT SCHEDULE

TAG	DESCRIPTION	TAG	DESCRIPTION
FE-1	FIRE EXTINGUISHER & MOUNTING BRACKET	RA- #	RESIDENTIAL APPLIANCE (SEE RA LEGEND)
FEC-1	FIRE EXTINGUISHER CABINET (SEMI-RECESSED)	TBA- #	TOILET AND BATH ACCESSORY (SEE A4 SERIES DRAWINGS)
AED-1 LKR- #	AED CABINET (SEMI-RECESSED) LOCKER (SEE LOCKER TYPES)	FTP- #	FABRIC-WRAPPED TACK PANEL (SEE MATERIAL LEGEND)
SGN-#	SIGNAGE (SEE SIGNAGE TYPES)	AWP- #	ACOUSTIC WALL PANEL (SEE MATERIAL LEGEND)









GENERAL NOTES: THE GENERAL NOTES ARE NOT A SUBSTITUTE OR A REPLACEMENT TO THE PROJECT SPECIFICATIONS. THESE NOTES ARE INTENDED AS A GUIDE TO THE DESIGN AND/OR CONSTRUCTION REQUIREMENTS ESTABLISHED FOR THIS PROJECT. NO CONTRACTOR SHOULD ATTEMPT TO DESIGN, BID OR CONSTRUCT ANY PORTION OF THE WORK HEREIN WITHOUT CONSULTING THE PROJECT SPECIFICATIONS. WHERE CONFLICTS OCCUR BETWEEN THESE NOTES AND THE SPECIFICATIONS THE MORE STRINGENT REQUIREMENTS SHALL APPLY UNLESS A WRITTEN CLARIFICATION IS ISSUED BY THE STRUCTURAL ENGINEER. VARIATION IN THE FIELD CONDITIONS RELATIVE TO THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT. WORK SHALL NOT PROGRESS UNTIL WRITTEN PERMISSION FROM THE ARCHITECT IS OBTAINED. CODES AND STANDARDS THE IBC/2018 ASCE 7-16 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14)" AMERICAN CONCRETE INSTITUTE AND ANY FOLLOWING REVISIONS "MANUAL OF STANDARD PRACTICE", CONCRETE REINFORCING STEEL INSTITUTE 2015 AMERICAN INSTITUTE OF STEEL CONSTRUCTION "STEEL CONSTRUCTION MANUAL" FIFTHTEENTH EDITION AISC 360-16 WITH SEISMIC PROVISION FOR STRUCTURAL STEEL BUILDINGS AISC 341-16 "STRUCTURAL WELDING CODE - STEEL (AWS D1.1-17)" AND "STRUCTURAL WELDING CODE -REINFORCING STEEL (AWS D1.4-17)". AMERICAN WELDING SOCIETY. "RECOMMENDED CODE OF STANDARD PRACTICE FOR STEEL JOISTS AND JOIST GIRDERS" STEEL JOIST INSTITUTE, 2015. "STANDARD FOR STEEL ROOF DECK(ANSI/RD1.0-17)". STEEL DECK INSTITUTE FOR STEEL ROOF DECK. "NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURES", AMERICAN IRON AND STEEL INSTITUTE (AISI) 2016 EDITION, "BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES AND COMMENTARY - (ACI 530-16) CONSTRUCTION AND SAFETY: 1. THE CONTRACTOR AND THIER SUBCONTRACTORS ARE SOLELY RESPONSIBLE FOR ALL SAFETY REGULATIONS, PROGRAMS AND PRECAUTIONS RELATED TO ALL WORK ON THIS PROJECT. THE CONTRACTOR AND THIER SUBCONTRACTORS ARE SOLELY RESPONSIBLE FOR THE PROTECTION OF PERSONS AND PROPERTY EITHER ON OR ADJACENT TO THE PROJECT AND SHALL PROTECT SAME AGAINST INJURY, DAMAGE OR LOSS. MEANS AND METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIALS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY. THE STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTION WITH THE DRAWINGS OF OTHER CONSULTANTS AND TRADES. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE VARIOUS REQUIREMENTS. THE CONTRACTOR AND THIER SUBCONTRACTORS ARE RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURE DURING DEMOLITION AND/OR CONSTRUCTION. SUCH LOADS SHALL NOT EXCEED THE CAPACITY OF THE STRUCTURE AT ANY TIME. ALL DEMOLITION AND OR CONSTRUCTION PROCEDURES SHALL BE REVIEWED BY A SPECIALTY CONSTRUCTION ENGINEER, SEE **DEFERED SUBMITTALS** SECTION OF THE GENERAL NOTES. NO CHANGES IN SIZE, DIMENSION OR LOCATION, SHALL BE MADE IN ANY STRUCTURAL ELEMENTS WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH NEW WORK IN AREAS AFFECTED BY EXISTING CONDITIONS.

- TRUCTURAL ENGINEER SHALL BE INFORMED IN WRITING OF CONFLICTS BETWEEN EXISTING AND PROPOSED NEW CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONS SHOWN ON THE 9 CONTRACT DOCUMENTS. INCONSISTENCIES ON THE STRUCTURAL DRAWINGS OR BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER CONTRACT, SHOP FABRICATION, OTHER DRAWINGS OR INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH AFFECTED WORK.
- 10. DO NOT SCALE THESE DRAWINGS, USE THE DIMENSION SHOWN.
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION AND ANY 11. TEMPORARY BRACING FOR LOADS INDUCED DURING CONSTRUCTION OR SUPPORT REQUIRED TO ACCOMODATE THE CONTRACTOR'S MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL INFORM THE STRUCTURAL ENGINEER, CLEARLY AND EXPLICITLY IN WRITING OF ANY DEVIATION OR SUBSTITUTION OF REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS BY VIRTUE OF THE STRUCTURAL ENGINEER'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS CLEARLY AND EXPLICITLY INFORMED THE STRUCTURAL ENGINEER IN WRITING OF ANY DEVIATIONS OR SUBSTITUTIONS AT TIME OF SUBMISSION, AND THE STRUCTURAL ENGINEER HAS GIVEN WRITTEN APPROVAL FOR THE SPECIFIC DEVIATIONS OR SUBSTITUTIONS.

	SUBMIT SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT OF CONCRET REINFORCEMENT. COMPLY WITH ACI DETAILING MANUAL (SP-66) SHOWING BAR SCHEDULES, STIRRUP SPACING, DIAGRAMS OF BENT BARS, ARRANGEMENT OF CONCRETE REINFORCING. INCLUDE SPECIAL REINFORCMENT REQUIRED AT OPENING THROUGH CONCRETE STRUCTURES. INCLUDE ALL ACCESSORIES SPECIFIED / REQUIR TO SUPPORT REINFORCING.
5.	MASONRY WALL REINFORCING STEEL: SUBMIT SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT OF MASONRY REINFORCEMENT. COMPLY WITH ACI DETAILING MANUAL (SP-66) SHOWING BAR SCHEDULES, DIAGRAMS OF BENT BARS, BAR LAP SPLICES AND SPACING OF REINFORCING. INCLUDE SPECIAL REINFORCMENT REQUIRED AT OPENINGS, CONTROL JOINTS AND BEAM POCKETS. INCLUDE ALL ACCESSORIES SPECIFIED / REQUIRED TO SUPPORT REINFORCING.
6.	STRUCTURAL STEEL: SUBMIT SHOP DRAWINGS FOR DETAILS, FABRICATION AND ERECTION OF STRUCTURA STEEL. COMPLY WITH AISC "STEEL CONSTRUCTION MANUAL" AISC "DETAILING FOR STEEL CONSTRUCTION" AND AISC "ENGINEERING FOR STEEL CONSTRUCTION" PUBLICATIONS. CONNECTIONS MUST BE SHOWN ON SHOP DRAWINGS AND INDICATE THE BOLT TYPE USED AND ALL CLIP ANGLES OR PLATES IN EACH CONNECTION. INDICATE ALL TYPES OF WELDS. ELECTRODES REQUIRED FOR EACH CONNECTION.
7.	<u>STEEL DECK</u> : SUBMIT SHOP DRAWINGS FOR DETAILS AND ERECTION OF STEEL DECK. COMPLY WITH STEEL DECK INSTITUTE "STANDARD PRACTICE DETAILS" PUBLICATIONS. INCLUDE DECK PLACEMENT DRAWINGS WITH TYPE DECK, GAUGE, ATTACHMENT TO SUPPORTIN STEEL AND SIDE LAP FASTENERS.
8.	STEEL JOIST: SUBMIT SHOP DRAWINGS FOR DETAILS AND ERECTION OF STEEL JOIST. COMPLY WIT STEEL JOIST INSTITUTE "STANDARD SPECIFICATION FOR OPEN WEB STEEL JOIST" : INCLUDE PLAN LAYOUT OF JOIST PLACEMENT AND BRIDGING. INCLUDE BILL OF MATER AND SPECIAL JOIST LOAD DIAGRAMS.
9.	LIGHT GAUGE FRAMING: SUBMIT MANUFACTURER'S CUT SHEETS AND ERECTORS SHOP DRAWINGS FOR STRUCTURAL REVIEW INDICATING LAYOUT, SPACING, TYPE, MATERIAL, MEMBER PROPERTIES AND ALL DETAILS OF CONNECTIONS FOR LIGHT GAUGE STEEL FRAMING INDICATED ON THE DRAWINGS. SHOP DRAWINGS SHALL SHOW A LAYOUT DIAGRAM OF EACH AREA OF THE BUILDING SHOWING PANEL LAYOUTS AND LOCATIONS, MEMBE SPACING, AND CONNECTIONS. LAYOUT DIAGRAMS SHALL INDICATE THE LOCATION AN OF ALL OPENINGS AND BLOCK OUTS FOR MECHANICAL WORK PENETRATION JOINTS A SHALL SHOW ADDITIONAL CONTINUITY STEEL, JOIST AND TRUSS HANGERS, WEB STIF BLOCKING, TRIM STEEL AND BRACING OR OTHER REINFORCING REQUIRED IN ACCORD WITH THE TYPICAL DETAILS.
DEFER	ED SUBMITTALS:
1.	THE DESIGNED RESPONSIBILITY OF THE ELEMENTS LISTED BELOW IS BEING DELEGAT STRUCTURAL ENGINEER HIRED BY THE CONTRACTOR. THE DELEGATED ELEMENTS SI IN ACCORDANCE WITH THE BUILDING CODE AND SPECIFIC REQUIREMENTS NOTED IN DOCUMENTS BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE V PROJECT IS LOCATED. SUBMITTALS SHALL BE SIGNED AND SEALED BY THE PROFESSI STRUCTURAL ENGINEER.
	 EXCAVATION SUPPORT-BANK STABILIZATION. TEMPORARY BRACING AND SHORING. STRUCTURAL STEEL CONNECTIONS. STEEL JOIST AND FABRICATION DRAWINGS, INCLUDING ACCESSORIES COLD FORMED METAL FRAMING, CONNECTIONS AND ANCHORAGES. SEISMIC ANCHORAGE AND SWAY BRACING OF MECHANICAL, ELECTRIC PLUMBING SYSTEM COMPONENTS. LADDERS AND STEEL STAIR COMPONENTS, HANDRAILS, CONNECTION AND ANCHORAGES.
2.	SUBMITTALS SHALL INCLUDE SIGNED AND SEALED CALCULATIONS AND INCLUDE FABR
3.	THE CONTRACTOR'S BID SHALL INCLUDE A LIST OF SPECIALTY STRUCTURAL ENGINEE DELEGATED DESIGN RESPONSIBILITY.
FOUN	DATIONS
1.	IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE GEOTECHNICAL REPORT PRIOR TO BIDDING FOR CONSTRUCTION PROCEDURES REQUIRED DUE TO EXISTING CONDITIONS SUCH AS PLASTIC SOILS, UNACCEPTABLE FILL, ETC.
2.	CONTINUOUS WALL FOOTINGS HAVE BEEN PROPORTIONED FOR A NEW ALLOWABLE SOIL BEARING PRESSURE OF 2250 PSF. SPREAD FOOTINGS HAVE BEEN PROPORTIONED FOR A NET ALLOWABLE SOIL BEARING PRESSURE OF 2250 PSF.
3.	GEOTECHNICAL ENGINEER SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF ALL FOUNDATION AND/OR SLAB BEARING STRATA.
4.	CONTRACTOR SHALL REMOVE AND REPLACE UNACCEPTABLE SOILS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. ALL ORGANIC MATERIAL AND SOILS WHICH "PUMP" AFTER PROOF ROLLING WITH A FULLY LOADED TRUCK SHALL BE REMOVED.
5.	BOTTOM OF FOOTINGS MUST EXTEND 1'-6" BELOW PRESENT GRADE OR INTO "ENGINEERED FILL" AND 2'-6" BELOW PROPOSED GRADE UNLESS NOTED OTHERWISE IN GEOTECHNICAL REPORT.
6	ENGINEERED FILL ALL FILL MATERIAL SHALL BE SELECTED IN ACCORDANCE WITH

SUBMITTALS:

SHOP DRAWING REVIEW:

CONCRETE MIX DESIGN:

PROJECT SPECIFICATIONS.

CONCRETE REINFORCING STEEL

FILL MATERIALS.

- 7.
- BE FILLED SIMULTANEOUSLY TO MAINTAIN A COMMON ELEVATION.
- 10.
- CONCRETE FOOTINGS PLACED IN EARTH TRENCHED FORMS SHALL BE FREE OF FREEZING FOR A PERIOD OF NOT LESS THAN 5 DAYS.

COPYRIGHT (REPRODUCTI IS PERMITTEI REMOVE ALL AND SHALL A ACCURACY, C

PROFESSIONAL ENGINEERS SEAL AFT XEL NAMED ENGINEER HAS REFARED OR DIR ERIAL SHOWN ONLY ON THIS SHEET. OTH EXHBITING THIS SEAL, SHALL NOT BE C OMNERNITY OF THE UNIFOSITAMEN 273-

REVIEW OF SHOP DRAWING IS ONLY FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS, THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE SITE; FOR INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES, TEMPORARY SHORING BRACING AND PROCEDURES OF CONSTRUCTION; AND FOR COORDINATION OF WORK OF ALL TRADES. SHOP DRAWINGS SHALL BE APPROVED BY THE ARCHITECT / ENGINEER OF RECORD PRIOR TO FABRICATION. FABRICATION OF ITEMS BEFORE APPROVAL WILL BE THE REPONSIBILITY OF THE CONTRACTOR FOR ERRORS AND OMMISIONS. SUBMIT WRITTEN REPORTS OF EACH PROPOSED CONCRETE MIX NOT LESS THAN 15 DAYS PRIOR TO THE START OF PLACEMENT. MIX DESIGNS SHALL INCLUDE WATER CEMENT RATIO, SLUMP AND AIR CONTENT. SUBMITTAL SHALL BE PREPARED IN ACCORDANCE WITH ACI 301-84, CHAPTER 3 EXCEPT NOTED OTHERWISE IN THE UBMIT SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT OF CONCRETE

JDE SPECIAL REINFORCMENT REQUIRED AT OPENINGS RES. INCLUDE ALL ACCESSORIES SPECIFIED / REQUIRED ABRICATION, BENDING AND PLACEMENT OF MASONRY ACI DETAILING MANUAL (SP-66) SHOWING BENT BARS. BAR LAP SPLICES AND SPACING OF _ REINFORCMENT REQUIRED AT OPENINGS, CONTROL

ETAILS AND ERECTION OF STEEL DECK. COMPLY WITH ARD PRACTICE DETAILS" PUBLICATIONS. INCLUDE /ITH TYPE DECK, GAUGE, ATTACHMENT TO SUPPORTING

ETAILS AND ERECTION OF STEEL JOIST. COMPLY WITH ARD SPECIFICATION FOR OPEN WEB STEEL JOIST" : PLACEMENT AND BRIDGING. INCLUDE BILL OF MATERIALS

SHEETS AND ERECTORS SHOP DRAWINGS FOR IG LAYOUT, SPACING, TYPE, MATERIAL, MEMBER F CONNECTIONS FOR LIGHT GAUGE STEEL FRAMING SHOP DRAWINGS SHALL SHOW A LAYOUT DIAGRAM SHOWING PANEL LAYOUTS AND LOCATIONS, MEMBER SIZES, AYOUT DIAGRAMS SHALL INDICATE THE LOCATION AND SIZES UTS FOR MECHANICAL WORK PENETRATION JOINTS AND INUITY STEEL, JOIST AND TRUSS HANGERS, WEB STIFFENERS, CING OR OTHER REINFORCING REQUIRED IN ACCORDANCE

OF THE ELEMENTS LISTED BELOW IS BEING DELEGATED TO A SPECIAL TY BY THE CONTRACTOR. THE DELEGATED ELEMENTS SHALL BE DESIGNED DING CODE AND SPECIFIC REQUIREMENTS NOTED IN THE CONTRACT AL STRUCTURAL ENGINEER LICENSED IN THE STATE WHERE THE ALS SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL LICENSED

EEL CONNECTIONS. FABRICATION DRAWINGS, INCLUDING ACCESSORIES. ETAL FRAMING, CONNECTIONS AND ANCHORAGES. AGE AND SWAY BRACING OF MECHANICAL, ELECTRICAL AND M COMPONENTS EEL STAIR COMPONENTS, HANDRAILS, CONNECTION

GNED AND SEALED CALCULATIONS AND INCLUDE FABRICATION DRAWING. NCLUDE A LIST OF SPECIALTY STRUCTURAL ENGINEER FOR EACH BILITY.

50 PSF. SPREAD FOOTINGS HAVE BEEN OWABLE SOIL BEARING PRESSURE OF 2250 PSF. BE THE SOLE JUDGE AS TO THE SUITABILITY OF BEARING STRATA.

ENGINEERED FILL. ALL FILL MATERIAL SHALL BE SELECTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. EXISTING ON SITE MATERIALS SUCH AS THE NEAR-SURFACE FILL SOILS (SILTS AND CLAYS) SHOULD NOT BE USED AS ENGINEERED

UNLESS NOTED OTHERWISE IN GEOTECHNICAL REPORT, EARTH FILL PLACEMENT SHOULD BE COMPACTED TO A DRY DENSITY OF NOT LESS THAT 95% OF THE STANDARD PROCTOR, AND WELL GRADED GRANULAR FILL SHOULD BE COMPACTED TO DRY DENSITY OF NOT LESS THAN 100% OF THE STANDARD PROCTOR. FILL SHALL BE PLACED IN LAYERS NOT EXCEEDING A LOOSE THICKNESS OF 8 INCHES.

FOUNDATION WALL OR GRADE BEAMS HAVING EARTH PLACED ON EACH SIDE SHALL EXCAVATION OF THE TOE OF THE RETAINING WALL FOOTINGS MUST BE HAND CLEANED

AND CONCRETE PLACED AGAINST THE EARTH FOR THE FULL DEPTH OF THE FOOTING.

STANDING WATER AND FROST. CONCRETE FOOTINGS SHALL BE PROTECTED FROM

CONCRETE REINFORCING STEEL REINFORCING BARS ARE TO BE DOMESTIC NEW BILLET STEEL CONFORMING TO ASTM

REQUIRED TO BE WELDED SHALL CONFORM TO ASTM A706. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS AND THEIR SUPPORT IN THE FORMS WITH ACCESSORIES MUST FOLLOW THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315-LATEST)

A615-GRADE 60 STEEL INCLUDING STIRRUPS AND TIES U.N.O. REINFORCING WHICH IS

CONCRETE COVER OVER PRIMARY REINFORCING, TIES AND STIRRUPS SHALL BE AS FOLLOWS:

FOOTING	3"
SLABS ON GRADE	1 1/2"
WALL EXPOSED	2"
WALL NOT EXPOSED	3/4"
BEAMS AND COLUMNS	1 1/2"
ALL BARS INCLUDING TEMPERATURE BARS A FACES OF THE MEMBER INTO WHICH THEY F	

WELDED WIRE FABRIC MUST LAP 8" AT SIDES AND 8" AT ENDS AND BE WIRED TOGETHER REINFORCING BARS SHALL BE WELDED ONLY WHERE SHOWN ON THE STRUCTURAL DRAWINGS AND WELDS SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING

CODE- REINFORCING STEEL" (AWS D1.4) NO OTHER REINFORCING MAY BE WELDED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. TACK WELDING OF ANY REINFORCING IS STRICTLY PROHIBITED DOWELS IN WALL FOOTINGS TO BE EQUIVALENT IN SIZE AND NUMBER TO VERTICAL BARS

ALL HOOKED OR BENT DOWELS MUST BE IN POSITION BEFORE PLACING 6.1. CONCRETE, PUSHING BARS INTO FRESHLY PLACED CONCRETE IS NOT ACCEPTABLE. 6.2. ALL STRAIGHT DOWELS CAN BE PUSHED INTO FRESHLY PLACED CONCRETE

7. PROVIDE THE FOLLOWING ADDITIONAL REINFORCING UNLESS OTHERWISE CALLED FOR ON STRUCTURAL PLANS: 7.1. CORNER BARS AT ALL CORNERS AND INTERSECTIONS OF CONCRETE WALLS AND FOOTINGS TO MATCH HORIZONTAL REINFORCING. WHERE WALL HAS NO OUTSIDE REINFORCING PROVIDE #4 CORNER BARS SPACED HORIZONTALLY AT 1'-0" cc WITH (3)- #3 VERTICAL SUPPORT BARS PROVIDE #4 SLAB DOWELS AT 8" CENTERS AT DOORS UNLESS NOTED

BARS AT OPENING IN SLAB AND WALLS. PROVIDE BARS WITH AREA EQUAL 7.3. TO INTERRUPTED REINFORCING. PLACE 1/2" AT EACH SIDE OF OPENING. PROVIDE (2)- #5 BARS, EACH FACE, AT ALL SIDES OF OPENING, EXTEND BARS 2'-0" BEYOND OPENING. 7.4. CONTINUOUS HORIZONTAL REINFORCEMENT SHALL BE PROVIDED AT TOP AND BOTTOM OF ALL WALLS UNLESS OTHERWISE NOTED ON PLAN

8" WALL: (1) #4 AT TOP AND BOTTOM 10" TO 12" WALL: (2) #5 AT TOP AND BOTTOM 12" WALL OR LARGER: (3) #6 AT TOP AND BOTTOM 7.5. ADDITIONAL CONTINUOUS HORIZONTAL AND VERTICAL REINFORCEMENT SHALL BE PROVIDED IN WALLS, UNLESS OTHERWISE NOTED ON PLAN 8" WALL: #4 AT 12"cc 10" TO 12" WALL: #4 AT 16"cc EACH FACE

12" WALL OR LARGER: #4 AT 12"cc EACH FACE

ALL BARS SHALL LAP PER TABLE BELOW:

TENSION DEVELOPMENT LAP SPLICE LENGTHS FOR UNCOATED BARS

LENGTH (in.) PER CONCRETE STRENGTH (psi)												
		450	0 psi		4000 psi							
BAR SIZE	TOP	BARS	OTHER BARS		TOP BARS		OTHER BARS					
	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2				
#3	18"	27"	14"	21"	19"	28"	15"	22"				
#4	24"	35"	18"	27"	25"	37"	19"	29"				
#5	30"	44"	23"	34"	31"	47"	24"	36"				
#6	35"	53"	27"	41"	37"	56"	29"	43"				
NOTES:	1	1	1	1	1	1	1	1				

6.

SPACING REQUIRMENTS: CASE 1 1.1 BEAMS AND COLUMNS - C.C. SPACING AT \geq 2.0db 1.2 ALL OTHER - C.C. SPACING AT ≥ 3.0db

SPACING REQUIRMENTS: CASE 2 2.1 BEAMS AND COLUMNS - C.C. SPACING AT < 2.0db

- C.C. SPACING AT < 3.0db ALL OTHER TOP HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE

CAST BELOW THE BARS. TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING

CAST IN NORMAL WEIGHT CONCRETE. FOOTING BARS SHALL BE LAPPED 48.0db 11. 12

13. 14. 15.

CONCRETE

1.

STANDARDS ACI 318 BUILDING CODE REQUIREMENT FOR REINFORCED CONCRETE 1.2. ACI 315 MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.

1.3. ACI 347 RECOMMENDED PRACTICE FOR CONCRETE FRAMEWORK 1.4. ACI 304 RECOMMENDED PRACTICE FOR MEASURING, MIXING TRANSPORTING AND PLACING CONCRETE

1.5. ACI 309 RECOMMENDED PRACTICE FOR CONSOLIDATION OF CONCRETE (ACI 309-72) 1.6. ACI 308 RECOMMENDED PRACTICE FOR CURING CONCRETE

ACI 306 RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING 1.8. ACI 305 RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING.

ALL POURED IN PLACE CONCRETE SHALL BE READY- MIXED AND HAULED IN ACCORDANCE WITH ASTM C94.

OCATION	28 DAY COMPRESSIVE STRENGTH	SLUMP ⁽¹⁾	ENTRAINED AIR CONTENT	CEMENT (4) CONTENT
ERIOR SLABS IN GRADE (2)	5000 psi NORMAL WEIGHT 1 1/2" MAX AGGREGATE	2" TO 4"	5.5% <u>+</u> 1.0% 6% <u>+</u> 1.0%	6 SACKS W/ C=0.40
EAN FILL	2500 psi NORMAL WEIGHT 3/4" MAX AGGREGATE	4" TO 6"	5.5% <u>+</u> 1.5%	4.5 SACKS W/ C=0.55
TINGS, WALLS RADE BEAMS	4000 psi NORMAL WEIGHT 3/4" MAX AGGREGATE	2" TO 5"	6% <u>+</u> 1.0%	6 SACKS W/ C=0.45
RIOR SLABS	4000 psi NORMAL WEIGHT 1 1/2" MAX AGGREGATE	2" TO 4"	2% MAX ⁽³⁾	6 SACKS W/ C=0.40
TNOTES				

(1) SLUMPS NOTED ARE BEFORE USE OF PLASTICIZER. MAX SLUMP POST USE OF PLASTICIZER. 2) INCLUDES SIDEWALKS ONLY. SEE CIVIL DRAWINGS FOR PAVING AT CURB DESIGN. (3) DO NOT ADD AIR ENTRAINMENT TO DESIGN MIX. (4) LIMIT FLY ASH CONTENT TO 25% OF TOTAL CEMENT. REDUCE TO 15% IN COLD WEATHER APPLICATION.

PORTLAND CEMENT SHALL CONFORM TO ASTM C150 TYPE NORMAL WEIGHT AGGREGATE SHALL CONFORM TO ASTM C 33 #67 WATER REDUCING AGENT SHALL CONFORM TO (ASTM C494 TYPE A OR D). AIR RETAINING AGENT SHALL CONFORM TO (ASTM C260).

ALL INGREDIENTS MUST BE COMPATIBLE WITH EACH OTHER AND ALL OTHER INGREDIENTS IN THE CONCRETE. FINE AGGREGATES SHALL BE CLEAN, HARD, DURABLE AND FREE OF DELETERIOUS SUBSTANCES. COARSE AGGREGATES SHALL BE CLEAN, HARD AND DURABLE WITHOUT FLAT OR ELONGATED PIECES.

PREPARE TEST CYLINDERS FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE EXCEEDING 5 CUBIC YARDS, BUT LESS THAN 25 CUBIC YARDS, PLUS ONE SET FOR EACH ADDITIONAL 50 CUBIC YARDS. TEST ONE AT 7 DAYS AND 2 IN 28 DAYS PER ASTM C39. SUBMIT ALL TEST REPORTS TO THE ARCHITECT AND ENGINEER.

FORMS SHALL BE PLYWOOD IN GOOD CONDITION. APPLY A FORM RELEASE AGENT TO ALL FORMS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES AND CONFORM TO THE

REQUIREMENTS SPECIFIED. REQUEST SUCH SPECIFICATION FROM THE ARCHITECT/STRUCTURAL ENGINEER. UNLESS NOTED OTHERWISE IN PROJECT SPECIFICATIONS FINISHING TOLERANCE SHALL

BE WITHIN CLASS B IN ACCORDANCE WITH ACI 301 AND CONSIDERATION SHALL BE GIVEN TO SEQUENCING OF CONCRETE PLACEMENT TO FACILITATE CONTROL OF FINISH ELEVATIONS.

ALL CONSTRUCTION JOINTS AND POUR STRIPS SHOWN ON THE DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE UNLESS THEIR ELIMINATION IS APPROVED BY THE STRUCTURAL ENGINEER. TOLERANCE FOR ANCHOR BOLTS SUPPORT ANGLES AND OTHER EMBEDDED ITEMS SHALL

BE PER THE ACI CODE OF STANDARD PRACTICE SECTION 7.5 BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES AND OTHER EMBEDDED ITEMS EXPOSED TO EARTH OR GRANULAR FILL SHALL BE COVERED WITH A MINIMUM OF 3" OF CONCRETE

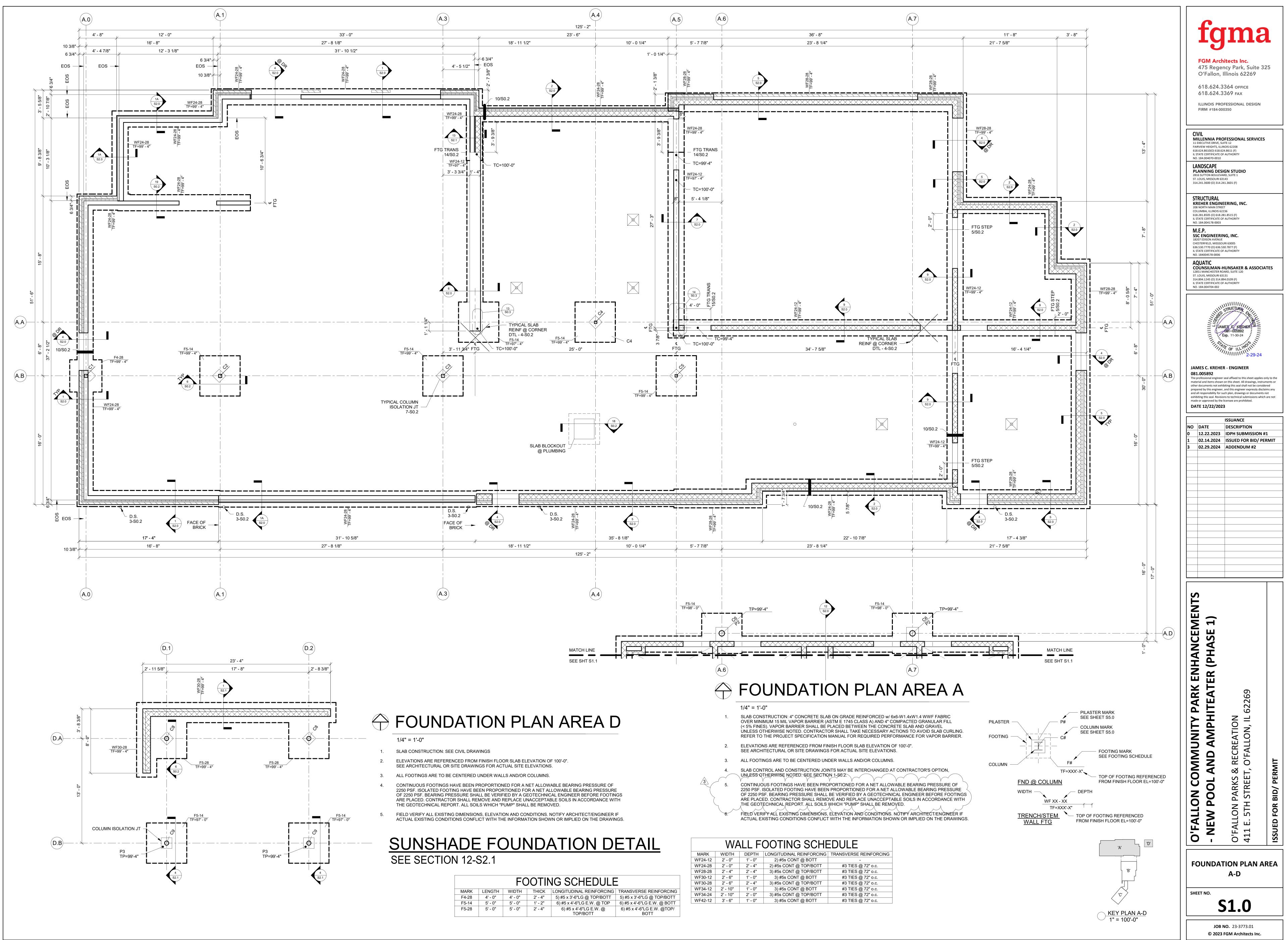
PIPES SLEEVES OR SLOTS SHALL NOT RUN THROUGH CONCRETE UNLESS SIZE AND LOCATION HAVE BEEN SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.

THE ARCHITECTURAL AND MECHANICAL DRAWINGS MUST BE REFERRED TO FOR ALL MECHANICAL FLOOR REQUIREMENTS AND THE VARIOUS TRADES ARE RESPONSIBLE FOR THE PLACING OF SLEEVES, OUTLET BOXES, ANCHORS ETC., THAT MAY BE REQUIRED. CONCRETE SHALL BE PLACED IN A TIMELY MANNER TO AVOID THE FORMATION OF COLD JOINTS. CONCRETE WALLS AND COLUMNS SHALL BE VIBRATED. CONCRETE WALLS SHALL HAVE CONSTRUCTION JOINTS NOT FURTHER THAN 100'-0"

UNLESS SHOWN OTHERWISE ALL SLAB-ON-GRADE CONSTRUCTION SHALL HAVE CONTROL JOINTS AT APPROX.. 8'-0"o.c. IN BOTH DIRECTIONS

<u>STRU</u>	CTURAL STEEL		f~		
1.	STRUCTURAI 1.1. 1.2.	ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN ASIC CODE OF STANDARD PRACTICE" WITH THE DELETION OF THE FOLLOWING SENTENCE FROM PARAGRAPH 4.2.1: "THIS APPROVAL CONSTITUTES THE OWNER'S ACCEPTANCE OF ALL RESPONSIBILITY FOR THE		jma	1
2.	CHANNELS, A	DESIGN ADEQUACY OF ANY DETAIL CONFIGURATION OF CONNECTIONS DEVELOPED BY THE FABRICATOR AS PART OF HIS PREPARATION FOR THESE SHOP DRAWINGS" <u>STEEL SHALL CONFORM TO THE FOLLOWING GRADES</u> : NGLES, PLATES, ETC. (U.N.O.) ASTM A36 	O'Fallon,	ncy Park, Suite 3 Illinois 62269 3364 OFFICE 3369 FAX	325
	STEEL PIPE ANCHOR BOL BOLTS	- TUBE ASTM A500 GR. B (Fy=46) ASTM A500 GR. B (Fy=42) ASTM F1554 ASTM A325 ECTRODESE70XX	ILLINOIS PRO FIRM #184-00	DFESSIONAL DESIGN 00350	
3.	GALVANIZED 3.1.	FINISHES: ZINC COATING BY HOT DIPPED PROCESS ASTM A123 GALVANIZE ALL EXTERIOR LINTELS AND SHELF ANGLES			
4.	CONNECTION (1/2) THE MAX TOTAL UNIFC REACTIONS A	IS SHALL BE DESIGNED BY THE FABRICATOR FOR THE MINIMUM OF: ONE-HALF KIMUM UNIFORM LOAD ON THE MEMBER AS DEFINED IN TABLE 3-6, "MAXIMUM ORM LOAD" TABLE IN THE 15th EDITION <u>OR</u> 11 KIPS-ASD <u>OR</u> 16 KIPS-LRFD. AS NOTED ON THE DRAWINGS SHALL SUPERSEDE MINIMUM REQUIREMENTS OF CONNECTIONS SHALL COMPLY WITH "SPECIFICATION FOR STRUCTURAL	MILLENNIA PRO 11 EXECUTIVE DRIVE, S FAIRVIEW HEIGHTS, ILL 618.624.8610(O) 618.6 IL STATE CERTIFICATE C NO. 184.004070-0010	NOIS 62208 24.8611 (F)	S
	JOINTS USIN SEE PLAN FO VERT	G ASTM A325 OR A490 BOLTS." R BEAM REACTIONS: ICAL SHEAR Va (ASD) Vu (LRFD) . TENSION/COMPRESSION Aa (ASD)	LANDSCAPE PLANNING DES 2816 SUTTON BOULEV. ST. LOUIS, MISSOURI 6 314.241.3600 (O) 314.2	ARD, SUITE 1 8143	
5.	BOLTED CON 5.A.	Au (LRFĎ)	STRUCTURAL KREHER ENGIN 208 NORTH MAIN STRE COLUMBIA, ILLINOIS 62	ET	
	5.B.	USED IN ALL BOLTED MOMENT OR BRACING MEMBER CONNECTIONS. OVERSIZED AND LONG SLOTTED HOLES ARE PERMITTED BEARING -TYPE CONNECTION WITH A325-N OR A429-N BOLTS SHALL BE USED TO ALL OTHER BOLTED CONNECTIONS. OVERSIZED AND LONG-SLOTTED HOLES ARE NOT PERMITTED.	618.281.8505 (0) 618.3 IL STATE CERTIFICATE C NO. 184.004178-0003 M.E.P. SSC ENGINEERI 18207 EDISON AVENUE	F AUTHORITY	
6.	WELDED CON 6.A. 6.B.	INECTIONS ALL WELDING SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE STEEL" AWS D1.1 OF THE AMERICAN WELDING SOCIETY ELECTRODES FOR WELDING SHALL COMPLY WITH THE REQUIREMENTS OF TABLE 4.1.1 OF THE AWS CODE.	CHESTERFIELD, MISSSC 636.530.7770 (0) 636.5 IL STATE CERTIFICATE C NO. 184004578-0006 AQUATIC COUNSU MAN-	30.7877 (F)	
7. 8.	QUALIFIED BY	WILL BE MADE ONLY BY OPERATORS WHO HAVE BEEN PREVIOUSLY Y TESTS, AS PRESCRIBED IN THE "STANDARD QUALIFICATIONS PROCEDURE" OF AN WELDING SOCIETY.	12851 MANCHESTER R ST. LOUIS, MISSOURI 6: 314.894.1245 (O) 314.8 IL STATE CERTIFICATE C NO. 184.004704-002	DARD, SUITE 120 8131 894.0109 (F)	
9.	CONNECTION NO CHANGE CUTS, ETC. S	WELDS SHALL BE PROVIDED TO CARRY THE ENTIRE STRESS FOR WHICH THE I IS DESIGNED. IN SIZE OR POSITION OF ANY STRUCTURAL ELEMENT NOR HOLES, SLOTS, HALL BE MADE UNLESS DETAILED AND NOTED AS A PROPOSED CHANGE ON RAWINGS AND REVIEWED AND ACCEPTED BY THE STRUCTURAL ENGINEER.		STRUCTURE	
10.	DO NOT USE	GAS CUTTING TORCHES IN THE FIELD FOR CORRECTING FABRICATION HE PRIMARY STRUCTURAL FRAMING.		MES C KREHER 2011	
11.	TEMPORARY TO WHICH TH OPERATION (ARE MADE AI SAFETY. NO I	OF THE STEEL SKELETON SHALL BE CARRIED UP TRUE AND PLUMB AND BOLTING AND BRACING SHALL BE INTRODUCED TO SAFELY CARRY ALL LOADS HE STRUCTURE MAY BE SUBJECTED INCLUDING EQUIPMENT AND THE OF THE SAME. INDIVIDUAL COLUMNS MUST BE BRACED BEFORE CONNECTIONS ND BRACING SHALL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR BOLTING OR WELDING SHALL BE DONE UNTIL AS MUCH OF THE STRUCTURE AS	JAMES C. KREHE 081.005892	R - ENGINEER	
12.	ALL COLUMN CONTRACTO	FENED THEREBY HAS BEEN PROPERLY ALIGNED. BASE PLATES SHALL BE SET ON STEEL SHIMS TO TRUE LEVEL LINE. GENERAL R SHALL RAM A NON-SHRINK GROUT SOLIDLY UNDER ENTIRE BASE PLATE DE 1" DEPTH NON-SHRINK GROUT BELOW PLATES. (UNLESS OTHERWISE	material and items show other documents not exh prepared by this enginee and all responsibility for exhibiting this seal. Revisi made or approved by the		ruments sidered claims an ts not
13. 14.	BEAMS AND I	L HEIGHT SOLID MASONRY UNDER BEARING ENDS OF ALL STRUCTURAL STEEL. INTELS TO BEAR MINIMUM 8" ON MASONRY. CHOR BOLTS (3/4" x 1'-4") AT BEARING ENDS AT ALL STRUCTURAL STEEL	DATE 12/22/202	ISSUANCE	
15.	BEARING ON UNLESS OTH THAN 9" WHE	CONCRETE AND MASONRY. ERWISE NOTED ANCHOR BOLTS SHALL EXTEND INTO CONCRETE NOT LESS RE POSSIBLE PLUS 4"± HOOK AND SHALL BE HELD AT 2 1/2" MINIMUM FROM	NO DATE 0 12.22.2023 1 02.14.2024 3 02.29.2024	DESCRIPTION IDPH SUBMISSION ISSUED FOR BID/ P ADDENDUM #2	
16.	BASE PLATE	CE OF CONCRETE. ALL ANCHOR BOLTS SHALL BE HELD 1 1/2" FROM EDGE OF WHERE POSSIBLE. JRAL STEEL MUST BE PROTECTED BY 3" OF CONCRETE WHERE EARTH WOULD BE IN CONTACT WITH STEEL.			
<u>STEE</u>	L JOIST				
1.	STEEL SHALL SPECIFICATIO	CONFORM TO THE "STEEL JOIST INSTITUTE (SJI) STANDARDS AND DNS".			
2. 3.	PROVIDE HO	BE OF WELDING QUALITY. CONFORMING TO THE ASTM SPECIFICATIONS. RIZONTAL BRIDGING IN ACCORDANCE WITH THE SJI SPECIFICATIONS BEFORE ARE FIXED OR APPLICATION OF CONSTRUCTION LOADS. BRIDGING ROWS AND			
4.	ANCHORS SH	IALL BE IN ACCORDANCE WITH STEEL JOIST INSTITUTE RECOMMENDATIONS.L BE WELDED TO SUPPORTING STEEL WORK AT EACH END PER THE SJI			
F	1/4" F 1/4" F 1/4" F	ILLET WELD 2 1/2" LONG EACH SIDE K-SERIES ILLET WELD 2" LONG EACH SIDE LH AND LDH - SERIES ILLET WELD 2" LONG EACH SIDE SLH15 thru SLH18-SERIES ILLET WELD 4" LONG EACH SIDE SLH19 thru SLH25-SERIES			
5. 6.	PROVED SPE	SHALL BE DONE UNTIL THE STRUCTURE HAS BEEN PROPERLY ALIGNED. CIAL DEPTH ENDS, EXTENDED ENDS, OUTRIGGERS, HEADERS, CEILING , & ANCHORS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.			
7.	IT SHALL BE	THE ERECTOR'S RESPONSIBILITY TO SEE THE JOISTS ARE NOT PLACED IN THE THAT ARE DAMAGED, KINKED, BENT OR WITH BROKEN WELDS.	CEMENTS SE 1)		
8. 9.	FOR JOISTS I	SOLID MASONRY UNDER MASONRY BEARING ENDS OF STEEL JOIST.	T A		
10.	JOISTS SHAL	SS NOTED OTHERWISE). L BEAR A MINIMUM OF 2 1/2" ON STEEL. JOISTS SHALL BEAR A MINIMUM OF 4" Y OR CONCRETE.	ASE		
11.		ACTURER TO DESIGN JOISTS AND JOIST GIRDERS FOR CONCENTRATED	HAN(
12.	TOP OR BOT	L BE STOCKPILED AT THE JOB SITE IN A VERTICAL POSITION RESTING ON THEIR TOM CHORDS, AND SHALL BE ADEQUATELY SUPPORTED ON WOOD BLOCKING. FREE FROM MUD AND DIRT.	PARK EN	RECREATION O'FALLON, IL 62269	
			O'FALLON COMMUNITY - NEW POOL AND AMPH	O'FALLON PARKS & RECR 411 E. 5TH STREET, O'FA	
			J.O.	0'F/ 411	
			GEN	ERAL NOTES	
			SHEET NO.	50.1	

JOB NO. 23-3773.01 © 2023 FGM Architects Inc

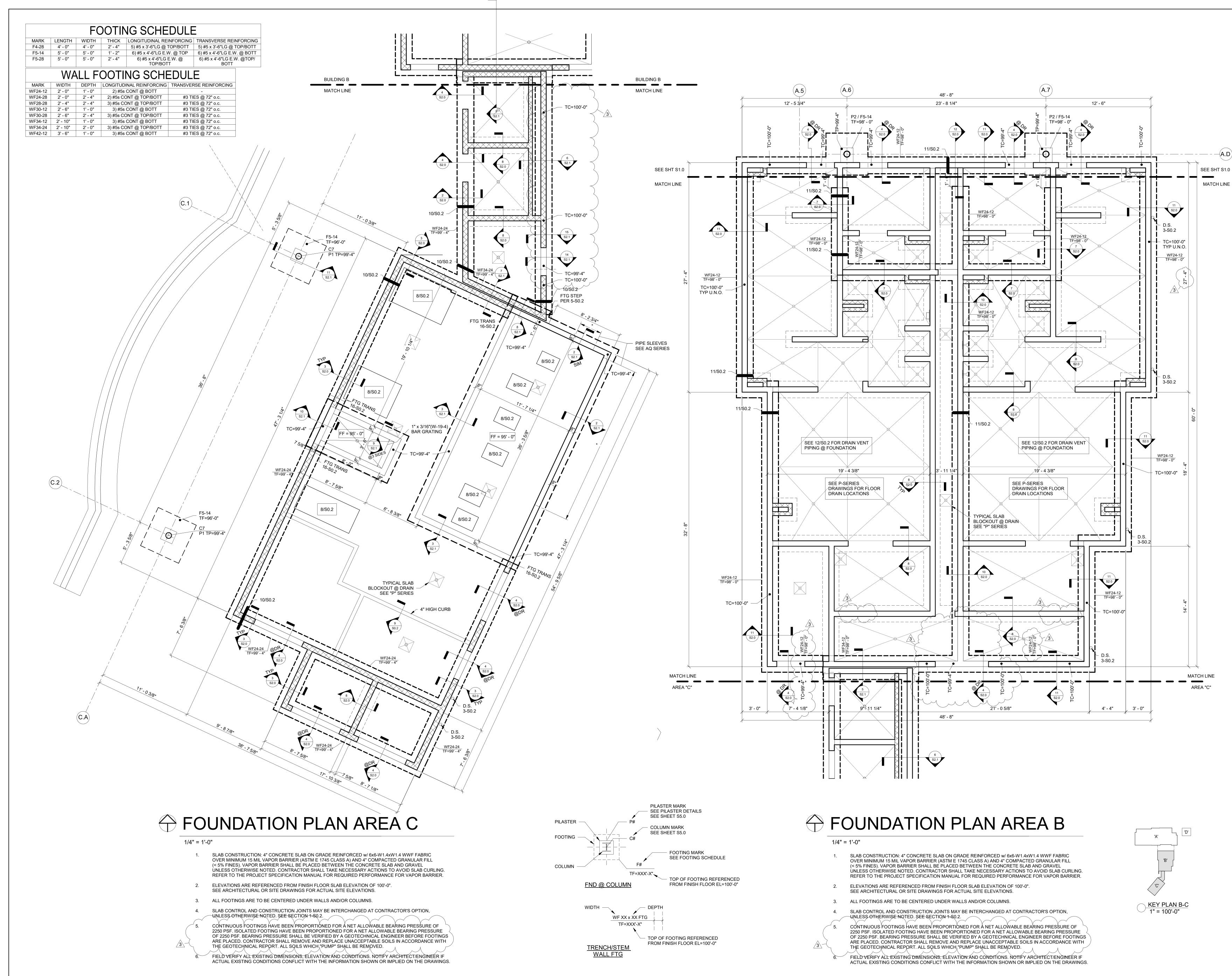


COPYRIGHT REPRODUCT IS PERMITTE REMOVE ALL AND SHALL ACURACY,

. OTHER BE CONS THE PROFESSIONAL ENGINEERS SEAL AF THE NAMED ENGINEER HAS PREPARED O MATERIAL SHOWN ONLY ON THIS SHEET NOT EXHIBITING THIS SEAL, SHALL NOT RESPONSIBILITY OF THE UNDERSIGNED.

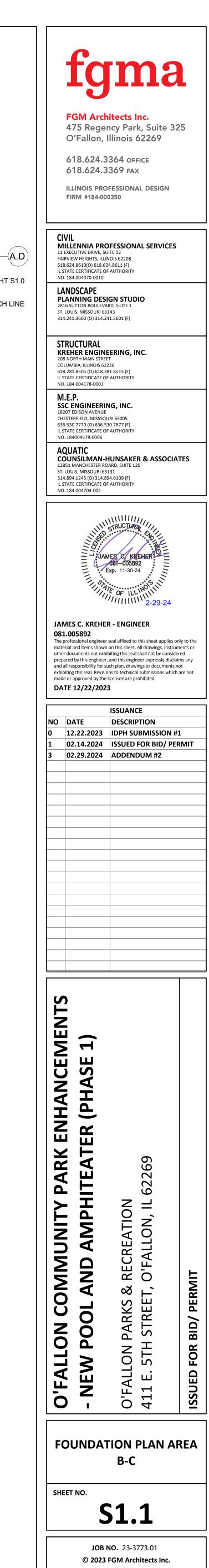
FOOTING SCHEDULE											
MARK	LENGTH	WIDTH	THICK	LONGITUDINAL REINFORCING	TRANSVERSE REINFORCING						
F4-28	4' - 0"	4' - 0"	2' - 4"	5) #5 x 3'-6"LG @ TOP/BOTT	5) #5 x 3'-6"LG @ TOP/BOTT						
F5-14	5' - 0"	5' - 0"	1' - 2"	6) #5 x 4'-6"LG E.W. @ TOP	6) #5 x 4'-6"LG E.W. @ BOTT						
F5-28	5' - 0"	5' - 0"	2' - 4"	6) #5 x 4'-6"LG E.W. @ TOP/BOTT	6) #5 x 4'-6"LG E.W. @TOP/ BOTT						

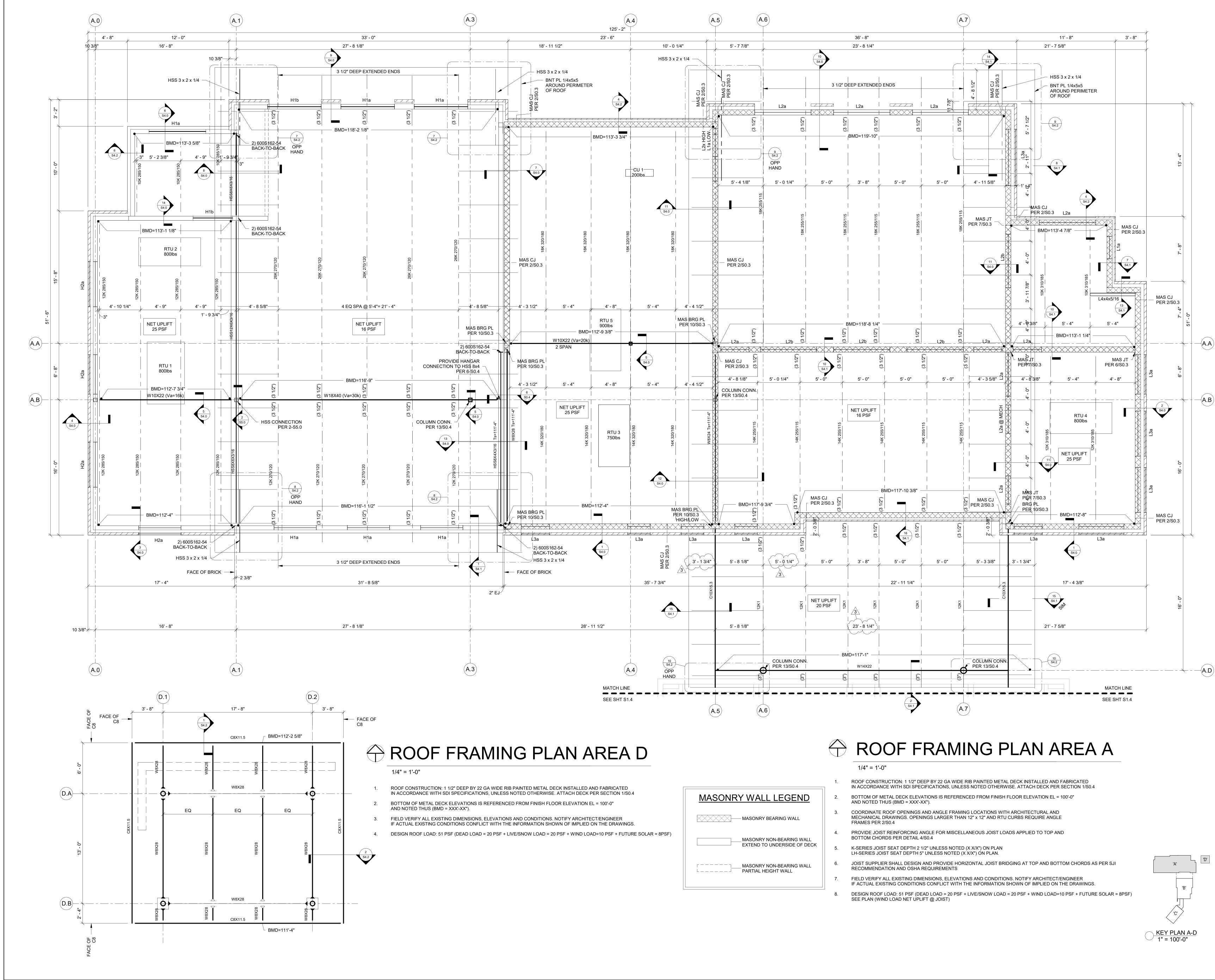
	WA	LL
MARK	WIDTH	DEI
WF24-12	2' - 0"	1' -
WF24-28	2' - 0"	2' ·
WF28-28	2' - 4"	2' -
WF30-12	2' - 6"	1' -
WF30-28	2' - 6"	2' -
WF34-12	2' - 10"	1' -
WF34-24	2' - 10"	2' ·
WF42-12	3' - 6"	1' -



COPY REPR IS PE REMC AND

THE MAT NOT RES

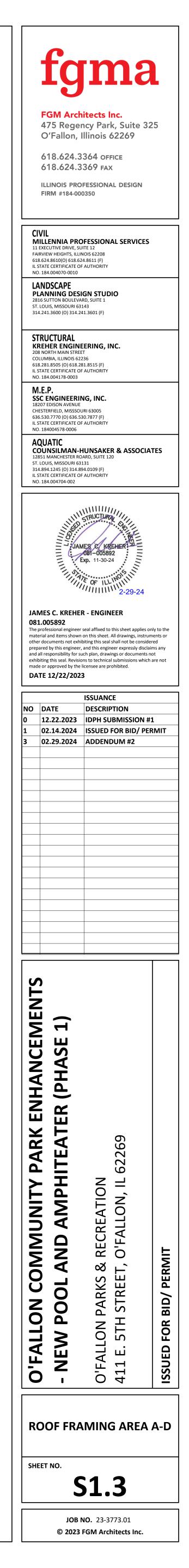


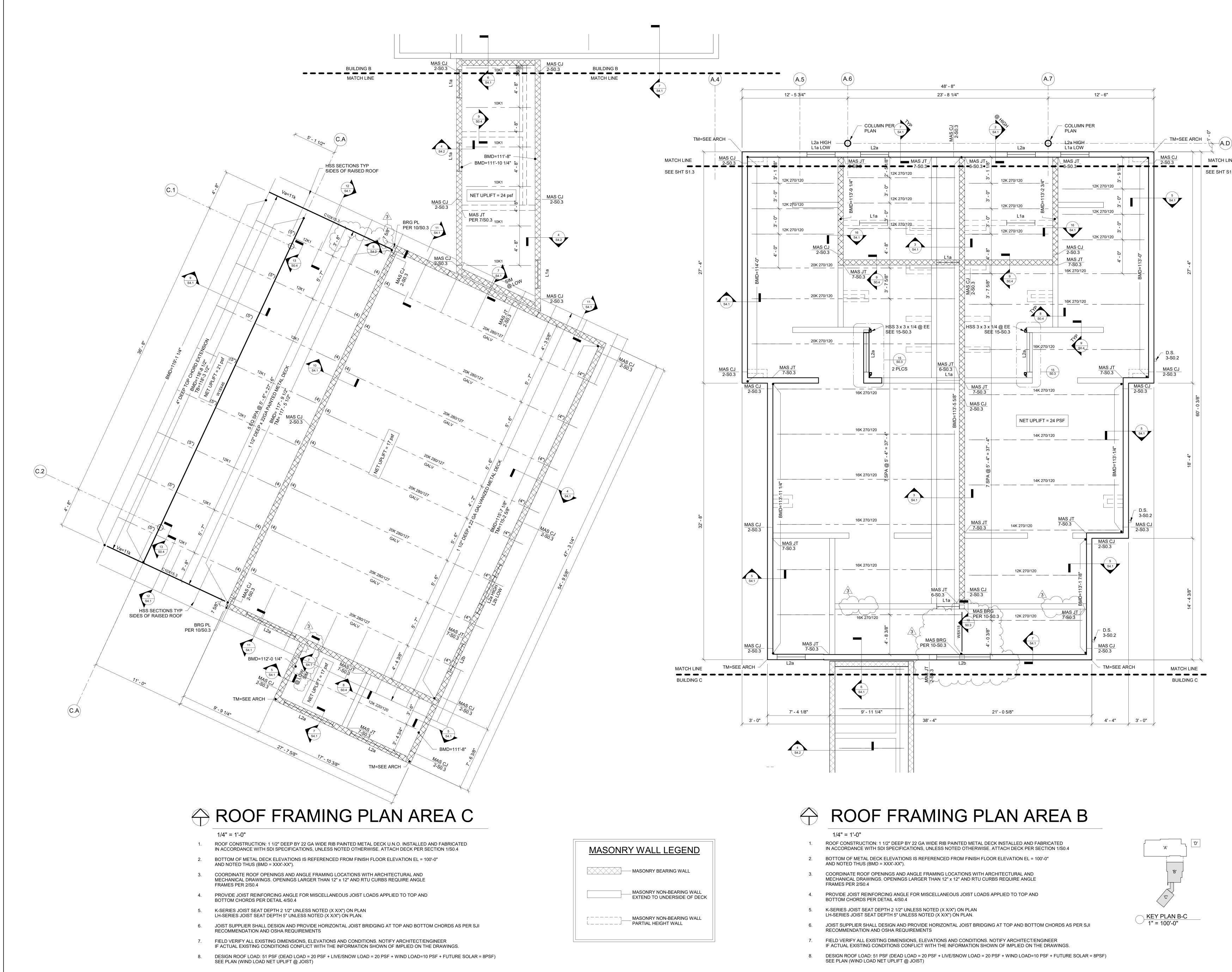


COPYRIG REPRODU IS PERMI REMOVE AND SHA ACCURAC

THE MAT NOT RES

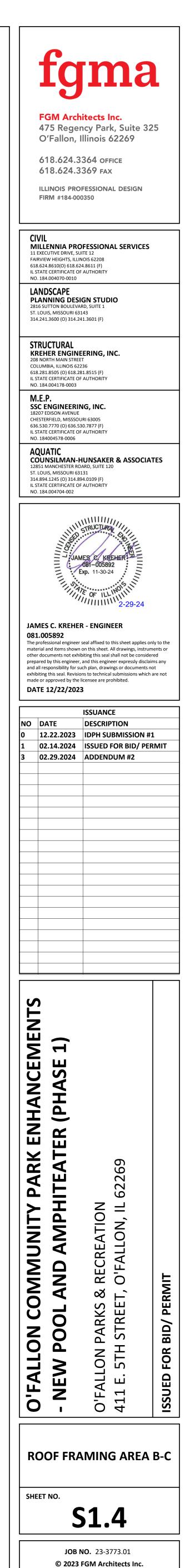
MASONF	RY WALL LEG
	— MASONRY BEARING W
	MASONRY NON-BEAR EXTEND TO UNDERSI
	MASONRY NON-BEAR PARTIAL HEIGHT WAL





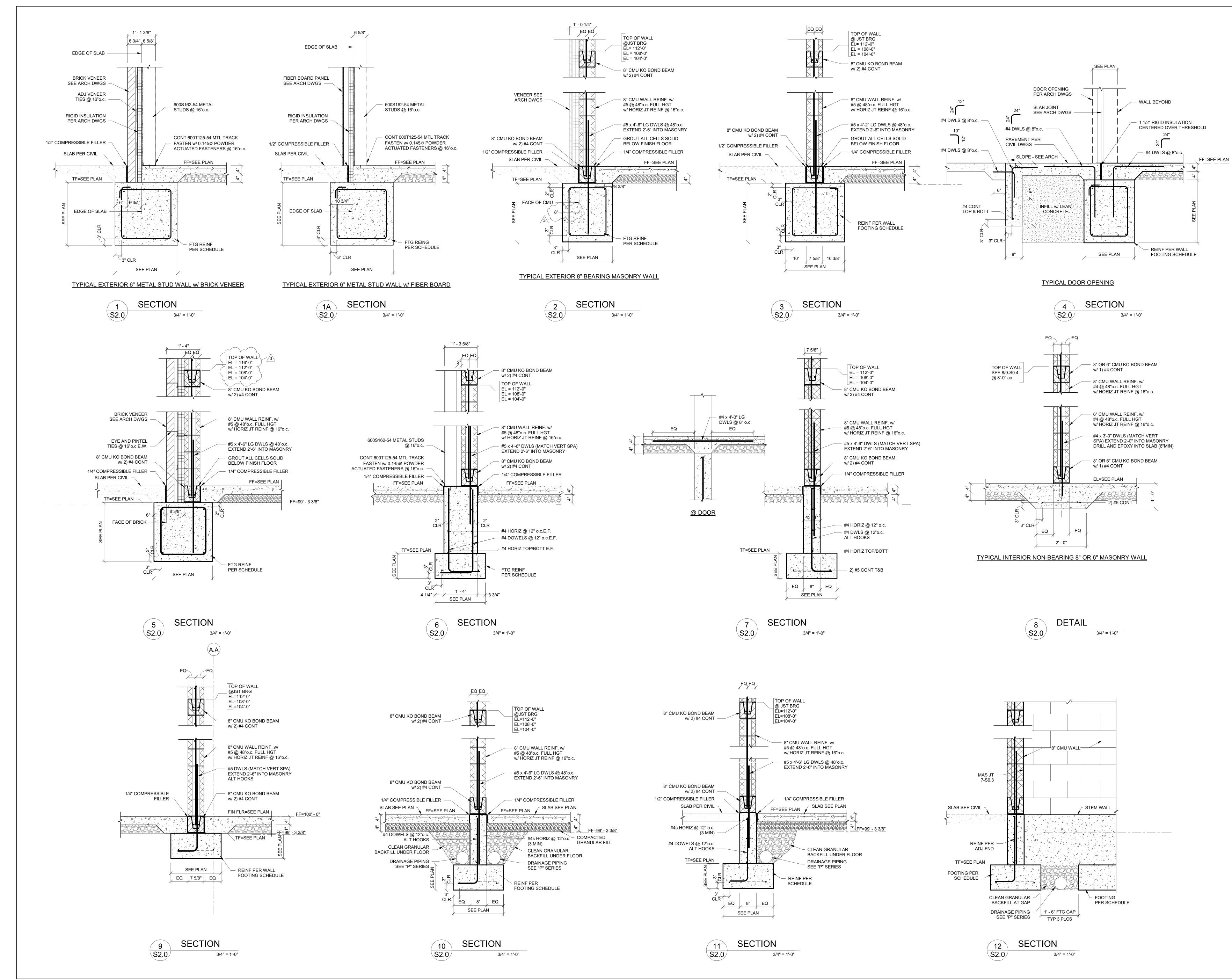
COPYI IS PEI REMC AND 3 ACU

THE MAT NOT RES

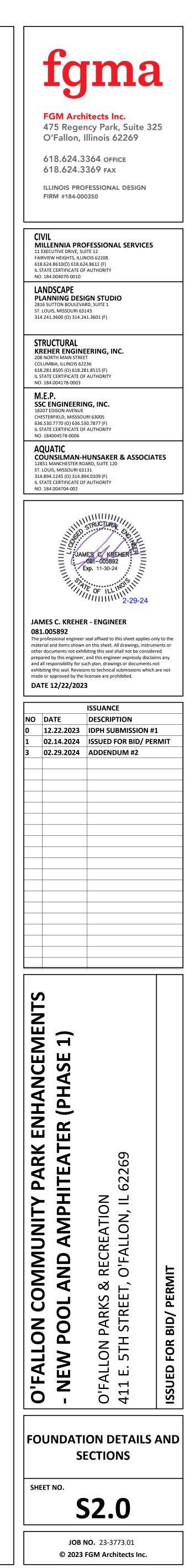


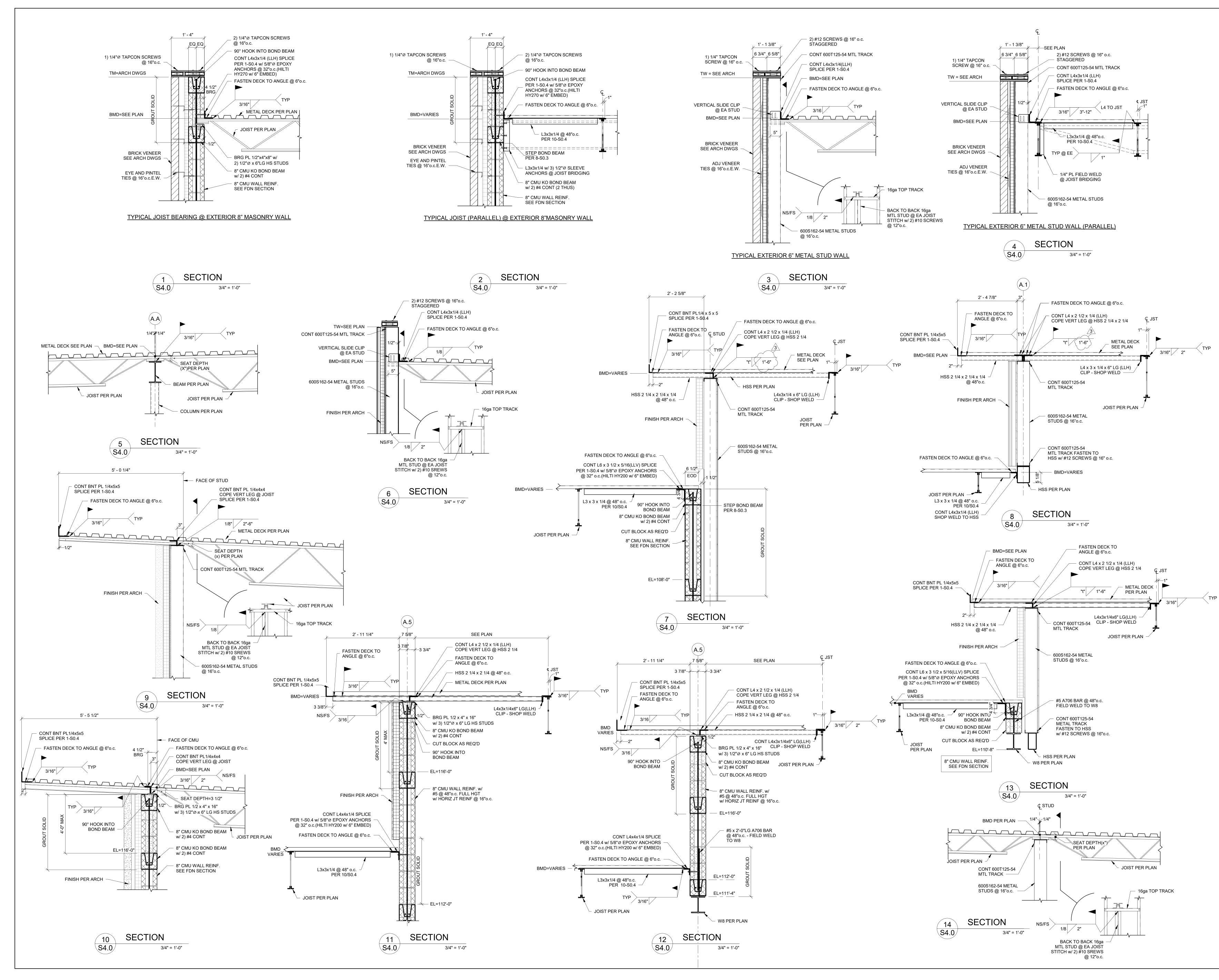
MATCH LINE

SEE SHT S1.3



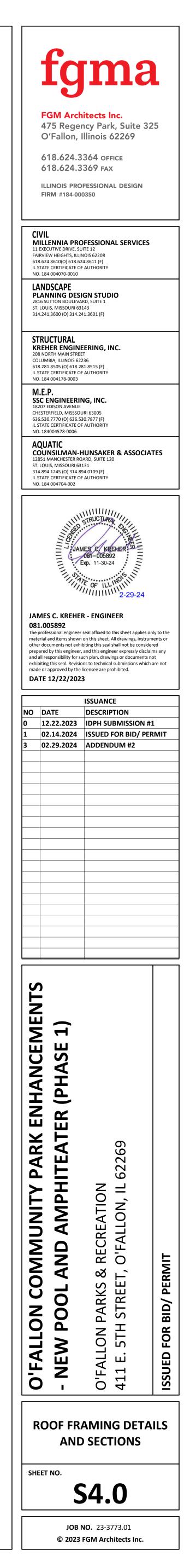
COPYRIGHT (REPRODUCTI IS PERMITTEI REMOVE ALL AND SHALL A ACCURACY, C DICATES THAT ATION OF THE DOCUMENTS, ED BY OR THE THE PROFESSIONAL ENGINEERS SEAL AFFIXED TO TI THE NAMED ENGINEER HAS PREPARED ON DIRECTED MATERILS SHOWN ONLY ON THIS SHEET. OTHER DR. NOT EXHIBITING THIS SEAL, SHALL NOT BE CONSID RESPONSIBILITY OF THE UNDERSIGNED. K23-164

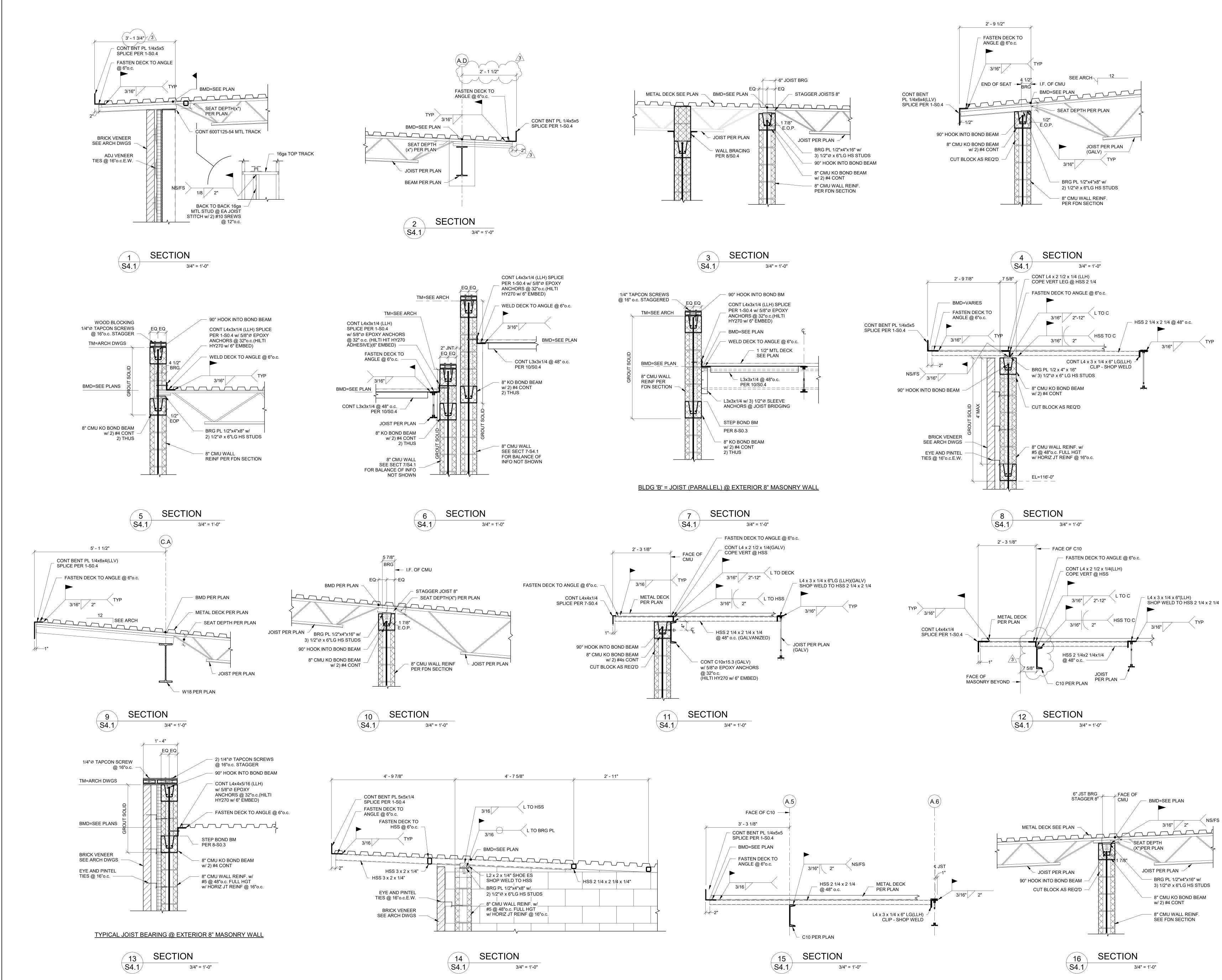




THAT COPYRIGHT (C) 2024 KREHER ENGINEERING, INC. FTHE REPRODUCTION OF THIS DRAWING FOR SHOP DRAWINGS ENTS, IS PERMITTED, BUT AT THE USERS RISK. THE USER SHALL R THE REMOVE ALL SEALS, FIRM NAMES, ITTLES, SHEET NUMBERS AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY, COMPLETENESS AND STATUS.

THE PROFESSIONAL ENGINEERS SEAL AFFIXED TO THIS SHEET INDIG THE NAMED ENGINEER HAS PREPARED OR DIRECTED THE PREPARATI MATERIAL SHOWN ONLY ON THIS SHEET. OTHER DRAWINGS AND DC NOT EXHIBITING THIS SEAL, SHALL NOT BE CONSIDERED PREPARED RESPONSIBILITY OF THE UNDERSIGNED. K23-164

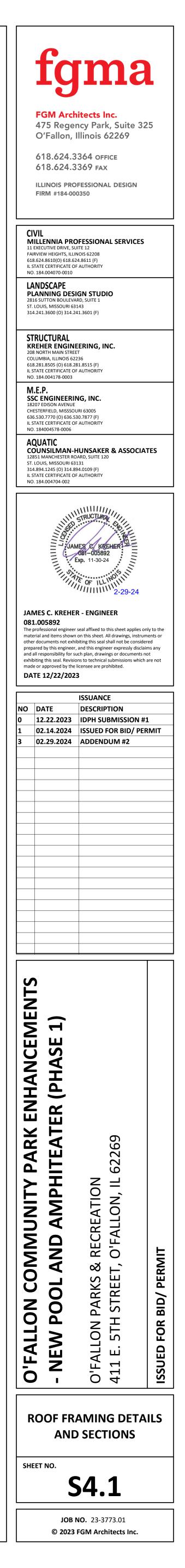




COPYRIGHT REPRODUCT IS PERMITTE REMOVE ALL AND SHALL ACURACY, THAT TIS, TIS,

EREPARED OR DIRECTE PREPARED OR DIRECTE I THIS SHEET. OTHER D , SHALL NOT BE CONSI DERSIGNED. K23-164 ED ENGINEER HAS P SHOWN ONLY ON 1 BITING THIS SEAL,

THE MAT NOT RESI



		۵	UCTLESS	SPLIT SYS	STEM SC	HEDULE					
						COOLING	CAPACITY				
TYPE	MAF	RK MAN	UFACTURER	MODEL	CFM	TOTAL BTU/H	SENSIBLE BTU	J/H F	REMARKS		
DS	1		DAIKIN	FTK24AXVJU	716	21,200	15,670		ALL		
COND	ENSATE PU		AN DOWN ON PUMP	WITCH AND POWER P FAILURE).	CORD (INTERLC	CK FAN WITH					
CONDENSING UNIT SCHEDULE TYPE COOLING CAPACITY											
TYPE MARK	MARK	MANUFACTURER	MODEL	SERVES	TOTAL MBH	AMBIENT °F	V/PH	МСА	MFA	REMARKS	
CU	1	DAIKIN	RK24AXVJU	DS-1	21.2	95	208/1	13.4	20	ALL	
2 DISCO 3 METAI 4 MOUN	DNECT SW	ITCHES BY E.C. ARDS I CURB OR EQUIPMI		ACT LENGTHS AND S	IZE OF REFRIGE	RANT PIPING.					
$\overline{}$	\sim	~~~~~		······		·····	\cdots	\sim	$\bigcap_{i=1}^{n}$		

L 1 RUSKIN ELF375DX 30"x24" 2.47 0.01 265 L 2 RUSKIN ELF375DX 30"x24" 2.47 0.01 265 L 5 RUSKIN ELF375DX 42"x24" 3.53 0.01 185 EXTRUDED ALUMINUM, DRAINABLE, STATIONARY LOUVER. FINISH PER ARCHITECT FROM FULL COLOR OPTIONS. FINISH PER ARCHITECT FROM FULL COLOR OPTIONS.	TYP	E MARK	MANUFACTURER	MODEL	(WxH)	SQ.FT.	SP	F.P.M
L 5 RUSKIN ELF375DX 42"x24" 3.53 0.01 185 EXTRUDED ALUMINUM, DRAINABLE, STATIONARY LOUVER. 5 5 5 5 5 185	L	1	RUSKIN	ELF375DX	30"x24"	2.47	0.01	265
EXTRUDED ALUMINUM, DRAINABLE, STATIONARY LOUVER.	L	2	RUSKIN	ELF375DX	30"x24"	2.47	0.01	265
	L	5	RUSKIN	ELF375DX	42"x24"	3.53	0.01	185

ROOF TOP UNIT SCHEDULE															
								COOLIN	IG (MBH)	NAT. GAS (MBH)		ELECTRICAL	-	WEIGHT	
TYPE MARK	MARK	MANUFACTURER	MODEL	SUPPLY CFM	O.A. CFM	ESP IN. H20	SUPPLY FAN HP	TOT.	SENS.	IN	V/PH	MCA	MOCP	(LBS)	REMARKS
RTU	1	DAIKIN	DRG 048	1500	75	1.0	1.2	46	38	115	208/3	23.5	35	700	1-7,10,11
RTU	2	DAIKIN	DRG 060	1900	250	1.0	2.3	57	46	140	208/3	30.6	45	700	1-7,10,11
RTU	3	DAIKIN	DRG 036	1200	75	1.0	1.2	35	29	115	208/3	20.5	30	650	1-7,10,11
RTU	4	DAIKIN	DRG 060	1900	250	1.0	2.3	57	46	140	208/3	30.6	45	700	1-7,10,11
RTU	5	DAIKIN	MPSA 04D	1500	360	1.0	1	47	36	75	208/3	31	40	800	1-6, 8, 9,11
2 DUPLE 3 7-DAY I 4 HAIL G	CONOMIZER X RECEPTAO PROGRAMAE UARDS. NNECT SWIT	CLE. BLE T-STAT.			8 9 10	SEER-16.5. SEER-14. HOT GAS REHE TWO-STAGE C TWO-STAGE H		JMIDITY SEN	SOR.						

6 PROVIDE SEISMIC RATED ROOF CURB.

TYPE	MARK	MANUFACTURER	MODEL	CFM	SP	V/PH	HP	REMARK
EF	1	COOK	ACED-120	650	0.5	120/1	1/4	1,2,4,5
EF	2	COOK	ACED-120	650	0.5	120/1	1/4	1,2,4,5
EF	3	COOK	GC-148	100	0.3	120/1	38W	3,5,6,7
EF	4	COOK	ACED-120	650	0.5	120/1	1/4	1,2,5
EF	5	COOK	GC-148	100	0.3	120/1	38W	3,5,6,7
EF	6	COOK	GC-148	100	0.3	120/1	38W	3,5,6,7
EF	7	COOK	GC-148	100	0.3	120/1	38W	3,5,6,7
EF	8	COOK	GC-148	100	0.3	120/1	38W	3,5,6,7
EF	9	COOK	GC-148	100	0.3	120/1	38W	3,5,6,7
EF	10	COOK	ACED-90	300	0.5	120/1	83W	2,4,5
EF	11	COOK	GC-148	100	0.3	120/1	38W	3,5,6,7
EF	12	COOK	GC-148	100	0.3	120/1	38W	3,5,6,7

2 WITH DISCONNECT. 3 ON/OFF W/LIGHTSWITCH. 4 ON/OFF W TIMECLOCK.

6 BRICK VENT BV-1. 7 ALUMINUM GRILLE.

ELECTRIC HEATER SCHEDULE										
TYPE MARK	MARK	MANUFACTURER	MODEL	V/PH	кW	REMARKS				
EH	1	QMARK	AWH4408	208/1	2	ALL				
EH	2	QMARK	AWH4408	208/1	2	ALL				
EH	3	QMARK	AWH4408	208/1	2	ALL				
EH	4	QMARK	AWH4408	208/1	2	ALL				
EH	5	QMARK	AWH4408	208/1	2	ALL				
EH	6	QMARK	AWH4408	208/1	2	ALL				
2 14 GAL	EH 6 QMARK AWH4408 208/1 2 ALL 1 CONCEALED THERMOSTAT. 2 14 GAUGE SECURITY FRONT COVER, WHITE. 3 SURFACE MOUNT.									

		UNIT H	EATER	SCHE	DULE				
TYPE	MARK	MANUFACTURER	MODEL	V/PH	KW	FLA	REMARKS		
UH	1	QMARK	MUH0581	208/1	5	24	ALL		
1 WALL MOUNTED THERMOSTAT.									

	AIR DEVICE SCHEDULE									
TYPE	MANUFACTURER	MODEL	MATL.	NECK SIZE	FRAME TYPE	PANEL SIZE	REMARKS			
E1	TITUS	PAR-AA	ALUM	SEE SCHED	HARD	12"x12"	2,3			
E2	TITUS	PAR-AA	ALUM	12"x12"	-	24"x24"	2,3			
R1	TITUS	PAR-AA	ALUM		LAY-IN	24"x24"	3,4			
R2	TITUS	350 RL	STL	-	HARD	24"x20"	1,3			
R3	TITUS	FL-20	ALUM		HARD	5'	2,3			
R4	TITUS	350 RL	STL		HARD	12"x6"	1,3			
S1	TITUS	TMS	ALUM		LAY-IN	24"x24"	3			
S2	TITUS	TMS	STL		LAY-IN	12"x12"	3			
S3	TITUS	FL-10	ALUM	-	HARD	5'	2,3			
S4	TITUS	301 RL	STL	-	HARD	12"x8"	1,3			
S5	TITUS	301 RS	STL	-	HARD	12"x8"	2,3			

1 WALL MOUNTED GRILLE. 2 CEILING MOUNTED GRILLE.

3 COLOR WHITE. 4 RETURN GRILLE TO PLENUM.

AIR DEVICE RUN OUT SCHEDULE DUCT CFM DUCT SIZE

DUCTORIN	DUCT SIZE
0-100	6" ROUND
101-200	8" ROUND
201-350	10" ROUND
351-600	12" ROUND
601-900	14" ROUND
901-1300	16" ROUND
1301-1750	18" ROUND

1 AIR DEVICE NECK SIZE SHALL BE THE SAME AS RUNOUT SIZE. 2 RECTANGULAR DUCT SIZES OF EQUIVALENT FREE AREA MAY

BE SUBSITUTED FOR ROUND DUCT. 3 RUNOUTS MAY BE RIGID OR FLEX DUCT PER SPECIFICATIONS.

4 CRITERIA: NC30 OR $\Delta P \le 0.1$

SEISMIC USE GROUP (II)							SEISMIC DESIGN CATEGORY (D)
	ANCHORAGE TO F		, SWAY B	RACING	LOCATION OF PROFI		
LISTING OF EQUIPMENT AND SYSTEM COMPONENTS	NOT PROVIDED	PROVIDED	NOT PROVIDED	PROVIDED	DRAWING NO. OR SPEC. SECTION	SEPERATE PERMIT & PLANS	COMMENTS
AIR DEVICES	X	-	-	Х	-	X	3
RTU	-	Х	X	-	-	X	-
DUCTWORK	Х	-	X	-	-	-	4
PIPING - NATURAL GAS	-	Х	-	Х	-	X	-
FCU	X	-	-	Х	-	X	-
COMPONENTS SUSPENDED FROM HANGERS THAT ARE 12 INCHES OR MORE IN LENGTH FROM THE TOP OF THE DUCT/PIPE TO SUPPORTING STRUCTURE	X	-	-	X	-	X	-

OR LESS. 2 TABLE 4.4, ITEM 1, B, EXCEPTION FOR 3 FEET MINIMUM OF FLEX CONNECTION BETWEEN COMPONENTS AND WEIGHS 20 POUNDS OR LESS. 3 TABLE 4.4, ITEM 1, B, EXCEPTION FOR LESS THAN 5LB/FT (COPPER PIPING - 2-1/2" OR LESS, SCHEDULE 40 AND 80 CPVC - 3" OR LESS). 3 FOOT FLEX CONNECTIONS FOR SUSPENDED EQUIPMENT. TABLE 4.4, ITEM 1, B, EXCEPTION FOR LESS THAN 5LB/FT (COPPER PIPING - 2-1/2" OR LESS, SCHEDULE 40 AND 80 CPVC - 3" OR LESS). 3 FOOT FLEX CONNECTIONS FOR SUSPENDED

EQUIPMENT. 4 TABLE 4.4, ITEM 3, EXCEPTION FOR DUCTWORK "A" (OR "B"). REFER TO INSTALLATION DETAIL ON DRAWING #__.

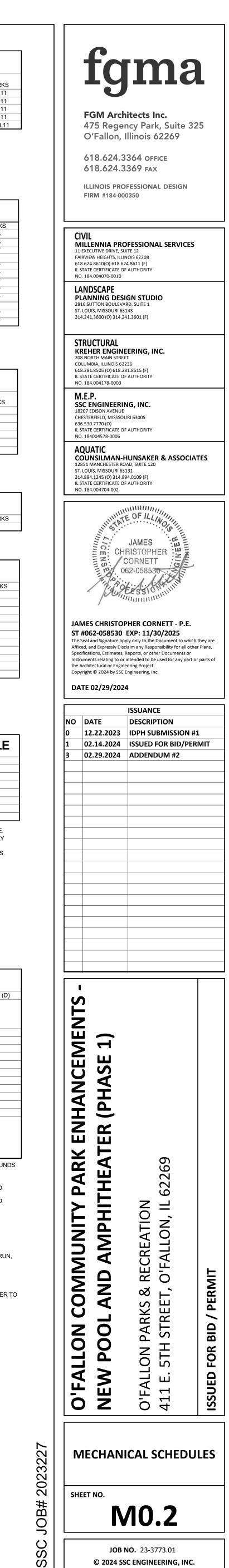
5 TABLE 4.4, ITEM 4, EXCEPTION FOR PIPING SUSPENDED FROM HANGERS 12 INCHES OR LESS. REFER TO INSTALLATION DETAIL ON DRAWING #__. 6 TABLE 4.4, ITEM 4, EXCEPTION FOR DUCTILE PIPING 1" OR LESS (SEISMIC DESIGN CATEGORY D).

7 DUCTILE PIPING, STEEL, COPPER PIPING AND TUBING JOINED BY WELDING, BRAZING/SOLDERING OR FLANGES. REFER TO TABLE 4.4, ITEM 4. 8 TABLE 4.4, ITEM 4, EXCEPTION FOR DUCTILE PIPING 3" OR LESS (SEISMIC DESIGN CATEGORY D).

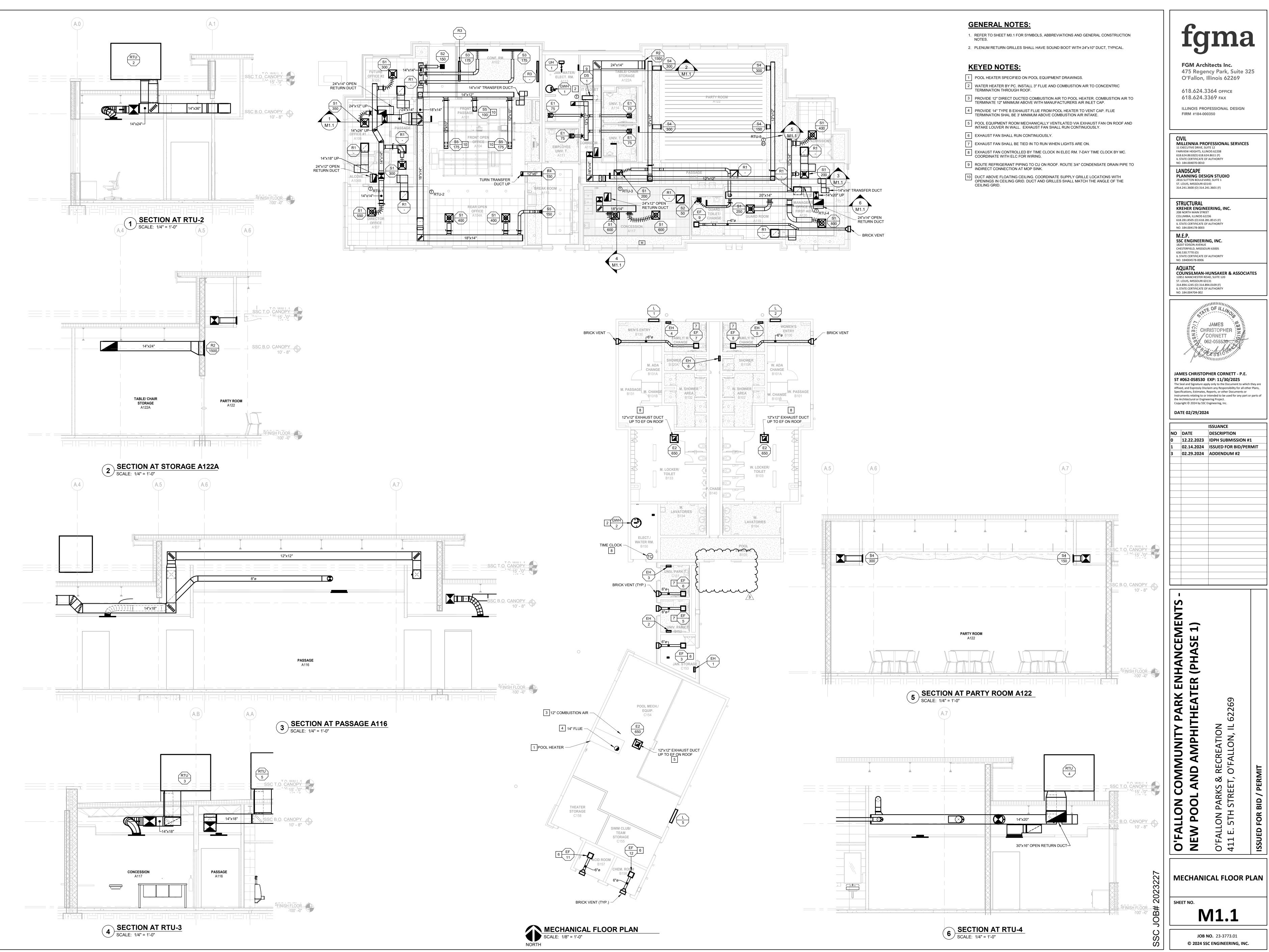
9 TABLE 4.4, ITEM 5, EXCEPTION FOR EXTERIOR GAS PIPING ON ROOF, 2 PSI OR LESS: SEISMIC SHUT-OFF VALVE OR FLEX CONNECTORS WITHIN 5 FEET OF THE BEGINNING OF THE RUN, AT CONNECTIONS TO EQUIPMENT AND AT 42 FOOT OR LESS INTERVALS. 10 COMPONENTS SHALL BE POSITIVELY ATTACHED WITH MECHANICAL FASTENERS.

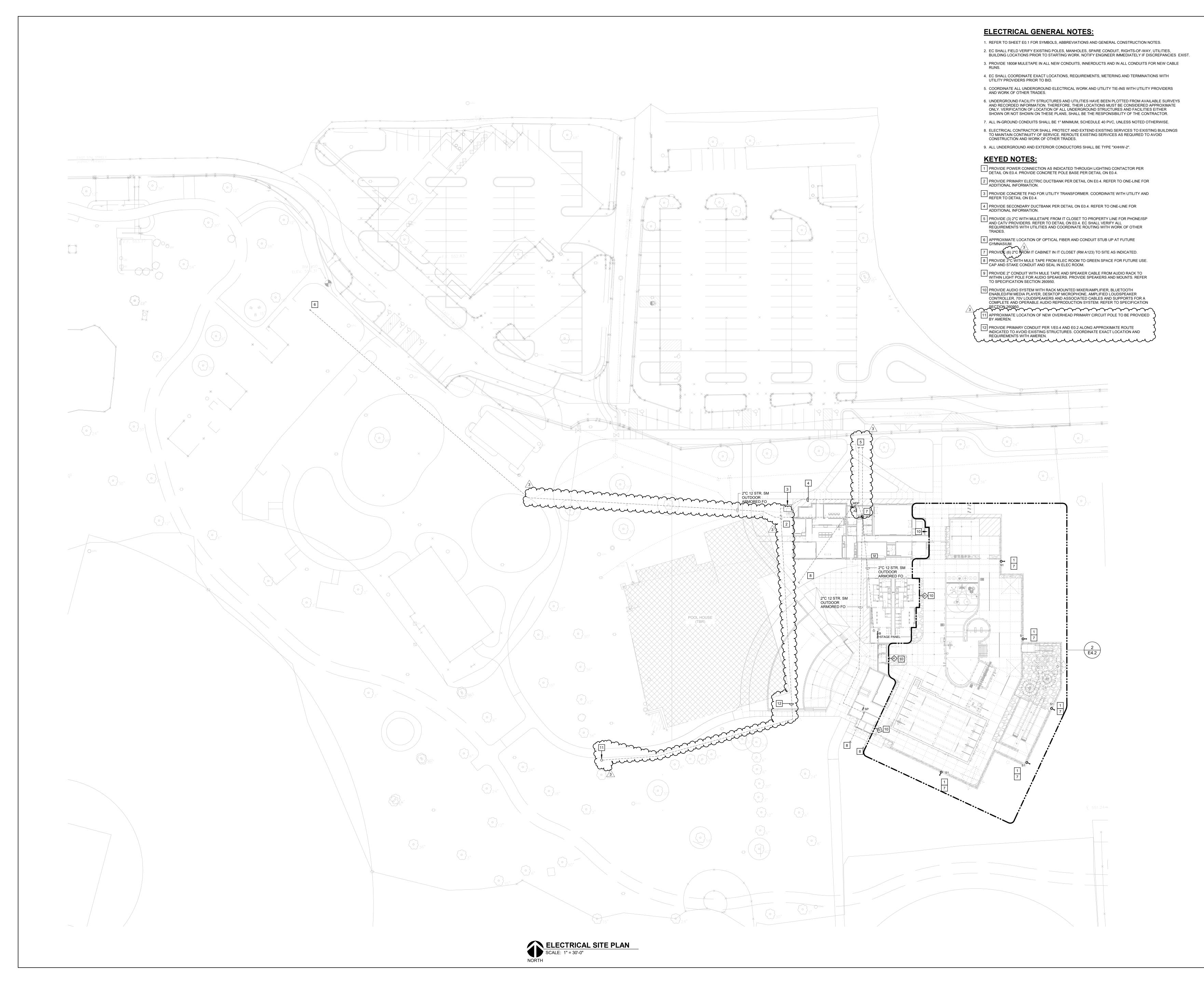
11 SEISMIC CALCULATIONS ARE ATTACHED TO SET OF DRAWINGS. 12 PLANS SIGNED AND SEALED BY A MISSOURI PROFESSIONAL ENGINEER TO BE SUBMITTED SEPARATELY WITH PERMIT APPLICATION FOR REVIEW. 13 TYPICAL SEISMIC ANCHORAGE (OR SWAY BRACING) IS PROVIDED ON THE DRAWINGS FOR REFERENCE ONLY. PLANS SIGNED AND SEALED BY A MISSOURI PROFESSIONAL ENGINEER TO

BE SUBMITTED SEPARATELY WITH PERMIT APPLICATION FOR REVIEW. 14 REFER TO INSTALLATION DETAIL ON DRAWING #___.

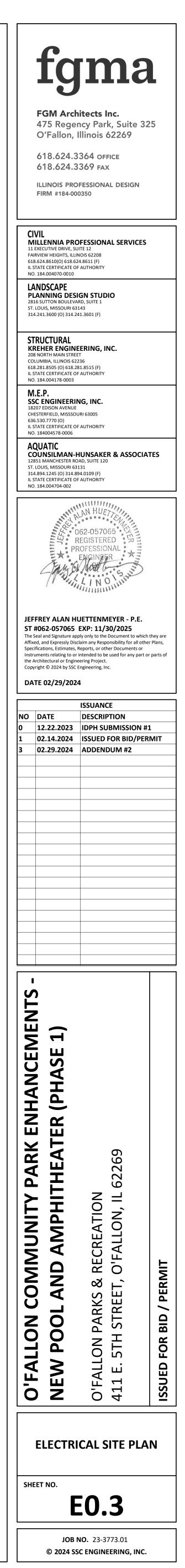


2/29/202 C:\Users\





2/29/2024 9:31:18 AM C:\Users\dschmidt\Documents\2023227_O'Fallon Comm Park-Pool Ph1_Central_R22_MEP_dschmidtK2A6M.rvt



SC JOB# 202322

otes:		Location: ELECT./ Supply From: MDP Mounting: Surface Enclosure: Type 1	NATER F	RM. B150			Volts: Phases: Wires:		Vye			N Ma	I.C. Rating: 10000 Mains Type: MCB ins Rating: 225 A ICB Rating: 225		
KT OTE S		Circuit Description	Trip	Poles	Α	В	С	Α	В	С	Poles	Trip	Circuit Description	СКТ	
G G G	-	RM B134 HAND DRYER A RM B104 HAND DRYER A RM B134 SUIT SPINNER	20 A 20 A 20 A	1 1 1	1450 VA	1450 VA	1450 VA	0 VA	0 VA	0 VA	3 	30 A 	SPD (Surge Protective Device)	2 4 6	
G	7	RM B104 SUIT SPINNER RP-3	20 A 20 A 20 A	1 1 1	1450 VA	70 VA	1430 VA	1080 VA	1080 VA		3	 60 A 	 Stage Panel 	8	· ·
G G	11	RM C151 HAND DRYER GWH-2	20 A 20 A	1	180 VA		1450 VA	1450 VA		560 VA	 1	 20 A	 RM C152 HAND DRYER	12 12	_
G G		RM B103, B133, C151, C152 FLUSH VALVE RM B134 HAND DRYER B	20 A 20 A	1 1		770 VA	1450 VA		1450 VA	1500 VA	1 3	20 A 20 A	RM B110 HAND DRYER EWH-1	16 18	_
G	21	RM B104 HAND DRYER B RM MENS LOCKER RECP	20 A 20 A	1	1450 VA	1080 VA		1500 VA	1500 VA					20 22	
	25	RM WOMENS LOCKER RECP EXTERIOR RECP B	20 A 20 A	1	1080 VA	540344	1080 VA	1800 VA	4000144	1800 VA	2	25 A 	EWH-2	24 26	
	29	ROOFTOP RECP B EXTERIOR POLE MOUNT RECP A EXTERIOR POLE MOUNT RECP B	20 A 20 A 20 A	1 1 1	180 VA	540 VA	180 VA	50 VA	1800 VA	1800 VA	2 1	25 A 20 A	EWH-3 DOOR HARDWARE	28 30 32	
	33	EXTERIOR POLE MOUNT RECP C EXTERIOR POLE MOUNT RECP D	20 A 20 A 20 A	1		180 VA	180 VA	30 VA	40 VA	77 VA	1 1	20 A 20 A 20 A	DOOR HARWARE B EXTERIOR LGT C	34 36	
	37	RM B150 RECP EF-1	20 A 15 A	1	180 VA	667 VA		470 VA	720 VA		1	20 A 20 A	EXTERIOR WALLPACK LGT B EXTERIOR EAVE LGT B	38 40	
	41	EF-2 EF-4	15 A 15 A	1	667 VA		667 VA	5 VA		32 VA	1	20 A 20 A	EXTERIOR STAIR LGT RM MENS LOCKER EGRESS LGT	42 44	
		FAPS TMV-2	20 A 20 A	1		600 VA	180 VA		863 VA	863 VA	1 1	20 A 20 A	RM MENS LOCKER LGT EF - 7 RM WOMENS LOCKER LGT EF - 8	46 48	_
	51	IRRIGATION RECP EH-1	20 A 15 A	1 2	180 VA	1000 VA		0 VA	634 VA		1 1	20 A 20 A	Spare B140, B150, C151, C152 LGT EF 5,6,3	-	
		 EH-2	 15 A	 2	1000 VA		1000 VA	900 VA		721 VA	1	20 A 20 A	RM C154-C158 LGT EF - 11,12 RM C154 RECP	54 56	
		 EH-3	 15 A	2	4000.1/4	1000 VA	1000 VA	0.1/0	360 VA	540 VA	1	20 A 20 A	RM C155,156,157,158 RECP RM B135,B105, C151,152,153 RECP	58 60	
	61 63 65	 EH-4	 15 A	2	1000 VA	1000 VA	1000 VA	0 VA	500 VA	0.)//	1	20 A 20 A	Spare REMOTE PUMP START	62 64 66	
		 EH-5	 15 A	2	1000 VA	1000 VA		0 VA	0 VA	0 VA	1 1 1	20 A 20 A 20 A	Spare Spare Spare	68 70	
		EH-6 	20 A	2	1000 VA		1000 VA	0 VA		0 VA	1	20 A 20 A 20 A	Spare Spare	70 72 74	
3	~ 7 5~	RP-2	20A 20 A	-1	\sim	~79.4~	0 VA	3	0 VA	0 VA	1	20 A 20 A	Spare Spare	76 78	
-۲		Spare RMB150 DATA RACK	20 A 20 A	Jufu	0 VA	360 VA	m	5 O VA	0 VA		1	20 A 20 A	Spare Spare	80 82	_
G	83	RM B120 HAND DRYER	20 A Tot	1 al Load:	1807	2 VA	1450 VA 1873	34 VA	1998	0 VA 30 VA	1	20 A	Spare	84	
tes:															
	E	Branch Panel: SP													
tes:		Location: POOL ME Supply From: MDP Mounting: Surface Enclosure: Type 1	ECH./ EQ	UIP. C15	4		Volts: Phases: Wires:	-	Ууе			N Ma	I.C. Rating: 22000 Mains Type: MCB ins Rating: 400 A ICB Rating:		
KT DTE S	1	Supply From: MDP Mounting: Surface Enclosure: Type 1	ECH./ EQ Trip 30 A	UIP. C15	4 A 0 VA	В	Phases:	3	В	С	Poles 3	N Ma M Trip 70 A	lains Type: MCB i ns Rating: 400 A		Γ ΝΟ
KT DTE S	1 3 5	Supply From: MDP Mounting: Surface Enclosure: Type 1 Circuit Description SPD (Surge Protective Device) 	Trip	Poles	Α	B	Phases: Wires:	3 4 A		C 5548 VA		N Ma M	Mains Type: MCB ins Rating: 400 A ICB Rating: Circuit Description		T NC
KT DTE S 	1 3 5 7 9 11	Supply From: MDP Mounting: Surface Enclosure: Type 1 Circuit Description SPD (Surge Protective Device) PP1 	Trip 30 A 	Poles 3 	A 0 VA		Phases: Wires:	3 4 5548 VA 3699 VA	В		3 	N Ma M 70 A 	Mains Type: MCB ins Rating: 400 A ICB Rating: Circuit Description PP4 PP3 	2 4 6	
KT DTE S 	1 3 5 7 9 11	Supply From: MDP Mounting: Surface Enclosure: Type 1 Circuit Description SPD (Surge Protective Device) PP1 	Trip 30 A 	Poles 3 	A 0 VA 5548 VA 5548 VA	0 VA 5548 VA 5548 VA	Phases: Wires: C 0 VA 5548 VA	3 4 A 5548 VA 3699 VA 5548 VA	B 5548 VA	5548 VA 3699 VA	3 3 	N Ma M M 70 A 45 A 	Mains Type: MCB ins Rating: 400 A ICB Rating: Circuit Description PP4 	2 4 6 8 10 12 14 16	
KT DTE S G	1 3 5 7 9 11 13 15 15 19	Supply From: MDP Mounting: Surface Enclosure: Type 1 Circuit Description SPD (Surge Protective Device) PP1 PP1 PP2 LEISURE POOL LGT	Trip 30 A 70 A 70 A 70 A 20 A	Poles 3 3 3 3 1	A 0 VA 5548 VA 5548 VA 440 VA	0 VA 5548 VA 5548 VA	Phases: Wires: C 0 VA 5548 VA	3 4 A 5548 VA 3699 VA 5548 VA	B 5548 VA 3699 VA 5548 VA	5548 VA 3699 VA 5548 VA	3 3 3	N Ma M M 70 A 45 A 70 A	Mains Type: MCB ins Rating: 400 A ICB Rating: Circuit Description PP4 PP3 	2 4 6 8 10 12 14 16 18 20	
 G G	1 3 5 7 9 11 13 15 19 21 23	Supply From: MDP Mounting: Surface Enclosure: Type 1 Circuit Description SPD (Surge Protective Device) PP1 PP1 PP2 LEISURE POOL LGT LAP POOL LGT LAP POOL LGT	Trip 30 A 70 A 70 A 70 A 20 A 20 A	Poles 3 3 3 3 1	A 0 VA 5548 VA 5548 VA 440 VA	0 VA 5548 VA 5548 VA	Phases: Wires: C 0 VA 5548 VA	3 4 5548 VA 3699 VA 5548 VA 5548 VA	B 5548 VA 3699 VA	5548 VA 3699 VA 5548 VA	3 3 3 3 3 	N Ma M M 70 A 45 A 45 A 70 A 70 A 80 A 80 A 	Mains Type: MCB ins Rating: 400 A ICB Rating: ICB Rating: PP4 PP3 PP6 PP5 PP5 PP5	2 4 6 8 10 12 14 16 18 20 22 24	
 G G	1 3 5 7 9 11 13 15 19 21 23 25 27	Supply From: MDP Mounting: Surface Enclosure: Type 1 Circuit Description SPD (Surge Protective Device) PP1 PP1 PP2 LEISURE POOL LGT LAP POOL LGT Spare LAP POOL UV TREATMENT	Trip 30 A 70 A 70 A 20 A 20 A 20 A 20 A 20 A	Poles 3 3 3 3 1 1 1 1 1 1	A 0 VA 5548 VA 5548 VA 440 VA	0 VA 5548 VA 5548 VA	Phases: Wires: 0 VA 5548 VA	3 4 A 5548 VA 3699 VA 5548 VA	B 5548 VA 3699 VA 5548 VA	5548 VA 3699 VA 5548 VA 7133 VA	3 3 3 3 3 1 1	N Ma M M M M M M M M M M M M M M M M M M	Mains Type: MCB ins Rating: 400 A ICB Rating: Circuit Description PP4 PP3 PP3 PP6 PP6 PP5 PP5 LAP POOL HEATER B ACID FEED PUMPS LAP POOL	2 4 6 8 10 12 14 16 18 20 22 22 24 26 28	
KT DTE S G G G G	1 3 5 7 9 11 13 15 19 21 23 25 27 29 31	Supply From: MDP Mounting: Surface Enclosure: Type 1 Circuit Description SPD (Surge Protective Device) PP1 PP1 PP2 PP2 LEISURE POOL LGT LAP POOL LGT LAP POOL LGT LAP POOL LGT LAP POOL LGT LAP POOL UV TREATMENT LEISURE POOL UV TREATMENT KATER LEVEL CONTROLLERS	Trip 30 A 70 A 70 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Poles 3 3 3 3 1 1 1 1 1 1 1 1	A 0 VA 5548 VA 5548 VA 440 VA	0 VA 5548 VA 5548 VA 180 VA 864 VA	Phases: Wires: C 0 VA 5548 VA	3 4 5548 VA 3699 VA 5548 VA 5548 VA	B 5548 VA 3699 VA 5548 VA 7133 VA 7133 VA	5548 VA 3699 VA 5548 VA	3 3 3 3 3 1 1 1 1 1	N Ma M M M M M M M M M M M M M M M M M M	Mains Type: MCB ins Rating: 400 A ICB Rating: Circuit Description PP4 PP3 PP6 PP5 LAP POOL HEATER B ACID FEED PUMPS LAP POOL CONTROL PANEL CHLORINE FEED PUMPS	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32	
KT DTE S G G G G G G G G	1 3 5 7 9 11 13 15 19 21 23 25 27 29 31 33 35	Supply From: MDP Mounting: Surface Enclosure: Type 1 Circuit Description SPD (Surge Protective Device) PP1 PP2 PP2 LEISURE POOL LGT LAP POOL LGT LAP POOL LGT Spare LAP POOL UV TREATMENT LEISURE POOL UV TREATMENT LEISURE POOL UV TREATMENT MATER LEVEL CONTROLLERS WATER CHEM. CONT. LAP POOL LAP POOL HEATER A	Trip 30 A 70 A 70 A 70 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Poles 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	A 0 VA 5548 VA 5548 VA 5548 VA 440 VA 440 VA 180 VA	0 VA 5548 VA 5548 VA 180 VA	Phases: Wires: 0 VA 5548 VA	3 4 5548 VA 3699 VA 5548 VA 5548 VA 7133 VA 840 VA 840 VA	B 5548 VA 3699 VA 5548 VA 7133 VA	5548 VA 3699 VA 5548 VA 7133 VA	3 3 3 3 1 1 1 1 1 1 1 1	N Ma M M M M M M M M M M M M M M M M M M	Mains Type: MCB ins Rating: 400 A ICB Rating: ICB Rating: PP4 PP3 PP6 PP5 ICD FEED PUMPS LAP POOL CONTROL PANEL CHLORINE FEED PUMPS ACID FEED PUMPS LEISURE POOL CONV RECP.	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 34 36	
KT DTE S G G G G G G G G	1 3 5 7 9 11 13 15 19 21 23 25 27 29 31 33 35 37 39	Supply From: MDP Mounting: Surface Enclosure: Type 1 Circuit Description SPD (Surge Protective Device) PP1 PP2 PP2 LEISURE POOL LGT LAP POOL LGT LAP POOL LGT LAP POOL LGT Spare Spare Spare LAP POOL UV TREATMENT LEISURE POOL UV TREATMENT WATER LEVEL CONTROLLERS WATER CHEM. CONT. LEISURE POOL LAP POOL HEATER A WATER CHEM. CONT. LEISURE POOL Spare	Trip 30 A 70 A 70 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Poles 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	A 0 VA 5548 VA 5548 VA 440 VA 440 VA	0 VA 5548 VA 5548 VA 180 VA 864 VA	Phases: Wires: 0 VA 5548 VA 5548 VA 5548 VA 864 VA 1800 VA	3 4 5548 VA 3699 VA 5548 VA 5548 VA 7133 VA 840 VA	B 5548 VA 3699 VA 5548 VA 7133 VA 7133 VA	5548 VA 3699 VA 55548 VA 55548 VA 71133 VA 200 VA 360 VA	3 3 3 3 1 1 1 1 1 1 1 1	N Ma M M M M M M M M M M M M M M M M M M	Mains Type: MCB ins Rating: 400 A CB Rating: Circuit Description PP4 PP3 PP6 PP5 PP5 LAP POOL HEATER B ACID FEED PUMPS LAP POOL CONTROL PANEL CHLORINE FEED PUMPS ACID FEED PUMPS LEISURE POOL CONV RECP. Spare Spare	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40	
KT DTE S G G G G G G G	1 3 5 7 9 11 13 15 19 21 23 25 27 29 31 33 35 37 39	Supply From: MDP Mounting: Surface Enclosure: Type 1 Circuit Description SPD (Surge Protective Device) PP1 PP2 PP2 LEISURE POOL LGT LAP POOL LGT LAP POOL LGT LAP POOL LGT LAP POOL UV TREATMENT LEISURE POOL UV TREATMENT KATER CHEM. CONT. LAP POOL LAP POOL HEATER A WATER CHEM. CONT. LEISURE POOL	Trip 30 A 70 A 70 A 20 A	Poles 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	A 0 VA 5548 VA 5548 VA 440 VA 440 VA 0 VA 180 VA 180 VA 10 VA	0 VA 5548 VA 5548 VA 5548 VA 180 VA 864 VA 10 VA 0 VA	Phases: Wires: 0 VA 5548 VA 5548 VA 5548 VA 864 VA 1800 VA 1800 VA 3409	3 4 5548 VA 3699 VA 5548 VA 5548 VA 3699 VA 30 VA 30 VA 30 VA 30 VA	B 5548 VA 3699 VA 3699 VA 5548 VA 7133 VA 7133 VA 10 VA 10 VA 10 VA 10 VA	5548 VA 3699 VA 55548 VA 55548 VA 7133 VA 200 VA 360 VA 360 VA	3 3 3 3 1 1 1 1 1 1 1 1	N Ma M M M M M M M M M M M M M M M M M M	Mains Type: MCB ins Rating: 400 A CB Rating: Circuit Description PP4 PP3 PP6 PP5 PP5 LAP POOL HEATER B ACID FEED PUMPS LAP POOL CONTROL PANEL CHLORINE FEED PUMPS ACID FEED PUMPS LEISURE POOL CONV RECP. Spare	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38	
KT DTE S G G G G G G G G G G	1 3 5 7 9 11 13 15 19 21 23 25 27 29 31 33 35 37 39 41	Supply From: MDP Mounting: Surface Enclosure: Type 1	Trip 30 A 70 A 70 A 20 A	Poles 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	A 0 VA 5548 VA 5548 VA 440 VA 440 VA 0 VA 180 VA 180 VA 10 VA	0 VA 5548 VA 5548 VA 180 VA 864 VA 10 VA	Phases: Wires: 0 VA 5548 VA 5548 VA 5548 VA 864 VA 1800 VA 1800 VA 3409	3 4 5548 VA 3699 VA 5548 VA 5548 VA 7133 VA 7133 VA 840 VA 30 VA 30 VA	B 5548 VA 3699 VA 3699 VA 5548 VA 7133 VA 7133 VA 10 VA 10 VA 10 VA 10 VA	5548 VA 3699 VA 5548 VA 5548 VA 7133 VA 200 VA 360 VA	3 3 3 3 1 1 1 1 1 1 1 1	N Ma M M M M M M M M M M M M M M M M M M	Mains Type: MCB ins Rating: 400 A CB Rating: Circuit Description PP4 PP3 PP6 PP5 PP5 LAP POOL HEATER B ACID FEED PUMPS LAP POOL CONTROL PANEL CHLORINE FEED PUMPS ACID FEED PUMPS LEISURE POOL CONV RECP. Spare Spare	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40	
KT DTE S G	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 : JNT	Supply From: MDP Mounting: Surface Enclosure: Type 1 Circuit Description SPD (Surge Protective Device) PP1 PP2 LEISURE POOL LGT LAP POOL LGT LAP POOL LGT LAP POOL LGT Spare Spare LAP POOL UV TREATMENT LEISURE POOL UV TREATMENT WATER LEVEL CONTROLLERS WATER CHEM. CONT. LAP POOL LAP POOL HEATER A WATER CHEM. CONT. LAP POOL LAP POOL HEATER A WATER CHEM. CONT. LEISURE POOL Spare Spare	Trip 30 A 70 A 70 A 20 A	Poles 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	A 0 VA 5548 VA 5548 VA 440 VA 440 VA 10 VA 180 VA 10 VA	0 VA 5548 VA 5548 VA 180 VA 864 VA 864 VA 10 VA 0 VA 4 VA 8 A	Phases: Wires: 0 VA 5548 VA 5548 VA 5548 VA 5548 VA 3400 1800 VA 1800 VA 28 0 VA 28 28 28	3 4 3 5548 VA 3699 VA 3699 VA 5548 VA 30 VA 30 VA 30 VA 30 VA 30 VA 30 VA	B 5548 VA 3699 VA 3699 VA 5548 VA 5548 VA 10 VA 10 VA 10 VA 10 VA 3624 30 30 40 10 VA	5548 VA 3699 VA 5548 VA 5548 VA 7133 VA 200 VA 360 VA 360 VA	3 3 3 3 1 1 1 1 1 1 1 1	N Ma M M M M M M M M M M M M M M M M M M	Mains Type: MCB ins Rating: 400 A CB Rating: Circuit Description PP4 PP3 PP3 PP6 PP6 PP5 LAP POOL HEATER B ACID FEED PUMPS LAP POOL CONTROL PANEL CHLORINE FEED PUMPS ACID FEED PUMPS LEISURE POOL CONV RECP. Spare Spare Spare Spare	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40	
G G G G S S S S S S S S S S S S S S S S	1 3 5 7 9 11 13 15 19 21 23 25 27 29 31 33 35 37 39 41 : JNT	Supply From: MDP Mounting: Surface Enclosure: Type 1 Circuit Description SPD (Surge Protective Device) PP1 PP2 LEISURE POOL LGT LAP POOL LGT LAP POOL LGT LAP POOL LGT Spare Spare LAP POOL UV TREATMENT LEISURE POOL UV TREATMENT WATER LEVEL CONTROLLERS WATER CHEM. CONT. LAP POOL LAP POOL HEATER A WATER CHEM. CONT. LAP POOL LAP POOL HEATER A WATER CHEM. CONT. LEISURE POOL Spare Spare	Trip 30 A 70 A 70 A 20 A	Poles 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	A 0 VA 55548 VA 55548 VA 440 VA 440 VA 180 VA 180 VA 180 VA 10 VA 228	0 VA 5548 VA 5548 VA 180 VA 864 VA 864 VA 10 VA 0 VA 4 VA 8 A	Phases: Wires: 0 VA 5548 VA 5548 VA 5548 VA 5548 VA 864 VA 1800 VA 1800 VA 28 28 28	3 4 3 5548 ∨A 3699 ∨A 3699 ∨A 5548 ∨A 5548 ∨A 30 ∨A 30 ∨A 30 ∨A 30 ∨A 4 A	B 5548 VA 3699 VA 3699 VA 5548 VA 5548 VA 7133 VA 10 VA 10 VA 10 VA 10 VA 3624 30 0 VA 3624 30	5548 VA 3699 VA 5548 VA 5548 VA 71133 VA 200 VA 200 VA 360 VA 360 VA 360 VA 360 VA	3 3 3 3 1 1 1 1 1 1 1 1	N Ma M M 70 A 45 A 45 A 70 A 70 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Aains Type: MCB ins Rating: 400 A CB Rating: Circuit Description PP4 P73 PP6 PP6 PP6 PP5 PP5 LAP POOL HEATER B ACID FEED PUMPS LAP POOL CONTROL PANEL CHLORINE FEED PUMPS CONV RECP. Spare Spare Spare Spare Total Conn. Load: 104870 VA	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40	
CKT OTE S G </td <td>1 3 5 7 9 11 13 15 19 21 23 25 27 29 31 33 35 37 39 41 : JNT</td> <td>Supply From: MDP Mounting: Surface Enclosure: Type 1 Circuit Description SPD (Surge Protective Device) PP1 PP2 LEISURE POOL LGT LAP POOL LGT LAP POOL LGT LAP POOL LGT Spare Spare LAP POOL UV TREATMENT LEISURE POOL UV TREATMENT WATER LEVEL CONTROLLERS WATER CHEM. CONT. LAP POOL LAP POOL HEATER A WATER CHEM. CONT. LAP POOL LAP POOL HEATER A WATER CHEM. CONT. LEISURE POOL Spare Spare</td> <td>Trip 30 A 70 A 70 A 20 A</td> <td>Poles 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>A 0 VA 5548 VA 5548 VA 440 VA 440 VA 10 VA 10 VA 10 VA 20 VA</td> <td>0 VA 5548 VA 5548 VA 180 VA 864 VA 864 VA 10 VA 0 VA 4 VA 8 A</td> <td>Phases: Wires: Vires: 0 VA 5548 VA 5548 VA 5548 VA 35548 VA 364 VA 1800 VA 1800 VA 28 0 VA 28 28 28 28</td> <td>3 4 3 5548 ∨A 3699 ∨A 3699 ∨A 5548 ∨A 5548 ∨A 30 ∨A 30 ∨A 30 ∨A 30 ∨A 4 A</td> <td>B 5548 VA 3699 VA 3699 VA 5548 VA 5548 VA 7133 VA 10 VA 10 VA 10 VA 10 VA 3624 30 0 VA 3624 30</td> <td>5548 VA 3699 VA 5548 VA 5548 VA 200 VA 200 VA 360 VA 360 VA 360 VA 360 VA 3 A</td> <td>3 3 3 3 3 1 1 1 1 1</td> <td>N Ma M M M M M M M M M M M M M M M M M M</td> <td>Mains Type: MCB ins Rating: 400 A CB Rating: Circuit Description PP4 PP3 PP6 PP6 PP5 LAP POOL HEATER B ACID FEED PUMPS LAP POOL CONTROL PANEL CHLORINE FEED PUMPS ACID FEED PUMPS LAP POOL CONV RECP. Spare Spare Spare Spare Spare Spare Spare Spare 104870 VA</td> <td>2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40</td> <td></td>	1 3 5 7 9 11 13 15 19 21 23 25 27 29 31 33 35 37 39 41 : JNT	Supply From: MDP Mounting: Surface Enclosure: Type 1 Circuit Description SPD (Surge Protective Device) PP1 PP2 LEISURE POOL LGT LAP POOL LGT LAP POOL LGT LAP POOL LGT Spare Spare LAP POOL UV TREATMENT LEISURE POOL UV TREATMENT WATER LEVEL CONTROLLERS WATER CHEM. CONT. LAP POOL LAP POOL HEATER A WATER CHEM. CONT. LAP POOL LAP POOL HEATER A WATER CHEM. CONT. LEISURE POOL Spare Spare	Trip 30 A 70 A 70 A 20 A	Poles 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	A 0 VA 5548 VA 5548 VA 440 VA 440 VA 10 VA 10 VA 10 VA 20 VA	0 VA 5548 VA 5548 VA 180 VA 864 VA 864 VA 10 VA 0 VA 4 VA 8 A	Phases: Wires: Vires: 0 VA 5548 VA 5548 VA 5548 VA 35548 VA 364 VA 1800 VA 1800 VA 28 0 VA 28 28 28 28	3 4 3 5548 ∨A 3699 ∨A 3699 ∨A 5548 ∨A 5548 ∨A 30 ∨A 30 ∨A 30 ∨A 30 ∨A 4 A	B 5548 VA 3699 VA 3699 VA 5548 VA 5548 VA 7133 VA 10 VA 10 VA 10 VA 10 VA 3624 30 0 VA 3624 30	5548 VA 3699 VA 5548 VA 5548 VA 200 VA 200 VA 360 VA 360 VA 360 VA 360 VA 3 A	3 3 3 3 3 1 1 1 1 1	N Ma M M M M M M M M M M M M M M M M M M	Mains Type: MCB ins Rating: 400 A CB Rating: Circuit Description PP4 PP3 PP6 PP6 PP5 LAP POOL HEATER B ACID FEED PUMPS LAP POOL CONTROL PANEL CHLORINE FEED PUMPS ACID FEED PUMPS LAP POOL CONV RECP. Spare Spare Spare Spare Spare Spare Spare Spare 104870 VA	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40	
SKT OTE S G G G G G G G G G G G G G	1 3 5 7 9 11 13 15 19 21 23 25 27 29 31 33 35 37 39 41 : JNT	Supply From: MDP Mounting: Surface Enclosure: Type 1 Circuit Description SPD (Surge Protective Device) PP1 PP2 LEISURE POOL LGT LAP POOL LGT LAP POOL LGT LAP POOL LGT Spare Spare LAP POOL UV TREATMENT LEISURE POOL UV TREATMENT WATER LEVEL CONTROLLERS WATER CHEM. CONT. LAP POOL LAP POOL HEATER A WATER CHEM. CONT. LAP POOL LAP POOL HEATER A WATER CHEM. CONT. LEISURE POOL Spare Spare	Trip 30 A 70 A 70 A 20 A	Poles 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	A 0 VA 5548 VA 5548 VA 440 VA 440 VA 10 VA 10 VA 10 VA 20 VA	0 VA 5548 VA 5548 VA 180 VA 864 VA 864 VA 10 VA 0 VA 4 VA 8 A	Phases: Wires: Vires: 0 VA 5548 VA 5548 VA 5548 VA 35548 VA 364 VA 1800 VA 1800 VA 28 0 VA 28 28 28 28	3 4 3 5548 ∨A 3699 ∨A 3699 ∨A 5548 ∨A 5548 ∨A 30 ∨A 30 ∨A 30 ∨A 30 ∨A 4 A	B 5548 VA 3699 VA 3699 VA 5548 VA 5548 VA 7133 VA 10 VA 10 VA 10 VA 10 VA 3624 30 0 VA 3624 30	5548 VA 3699 VA 5548 VA 5548 VA 200 VA 200 VA 360 VA 360 VA 360 VA 360 VA 3 A	3 3 3 3 3 1 1 1 1 1	N Ma M M M M M M M M M M M M M M M M M M	Aains Type: MCB ins Rating: 400 A ICB Rating: Circuit Description PP4 PP3 PP6 PP6 PP5 PP5 LAP POOL HEATER B ACID FEED PUMPS LAP POOL CONTROL PANEL CHLORINE FEED PUMPS CONV RECP. Spare Spare <t< td=""><td>2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40</td><td></td></t<>	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40	
KT DTE S G G	1 3 5 7 9 11 13 15 19 21 23 25 27 29 31 33 35 37 39 41 : JNT	Supply From: MDP Mounting: Surface Enclosure: Type 1 Circuit Description SPD (Surge Protective Device) PP1 PP2 LEISURE POOL LGT LAP POOL LGT LAP POOL LGT LAP POOL LGT Spare Spare LAP POOL UV TREATMENT LEISURE POOL UV TREATMENT WATER LEVEL CONTROLLERS WATER CHEM. CONT. LAP POOL LAP POOL HEATER A WATER CHEM. CONT. LAP POOL LAP POOL HEATER A WATER CHEM. CONT. LEISURE POOL Spare Spare	Trip 30 A 70 A 70 A 20 A	Poles 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	A 0 VA 5548 VA 5548 VA 440 VA 440 VA 10 VA 10 VA 10 VA 20 VA	0 VA 5548 VA 5548 VA 180 VA 864 VA 864 VA 10 VA 0 VA 4 VA 8 A	Phases: Wires: Vires: 0 VA 5548 VA 5548 VA 5548 VA 35548 VA 364 VA 1800 VA 1800 VA 28 0 VA 28 28 28 28	3 4 3 5548 ∨A 3699 ∨A 3699 ∨A 5548 ∨A 5548 ∨A 30 ∨A 30 ∨A 30 ∨A 30 ∨A 4 A	B 5548 VA 3699 VA 3699 VA 5548 VA 5548 VA 7133 VA 10 VA 10 VA 10 VA 10 VA 3624 30 0 VA 3624 30	5548 VA 3699 VA 5548 VA 5548 VA 200 VA 200 VA 360 VA 360 VA 360 VA 360 VA 3 A	3 3 3 3 3 1 1 1 1 1	N Ma M M M M M M M M M M M M M M M M M M	Aains Type: MCB ins Rating: 400 A ICB Rating: Circuit Description PP4 PP3 PP6 PP6 PP5 PP5 LAP POOL HEATER B ACID FEED PUMPS LAP POOL CONTROL PANEL CHLORINE FEED PUMPS CONV RECP. Spare Spare <t< td=""><td>2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40</td><td></td></t<>	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40	
KT DTE S G G G G G G G G G G G G G G	1 3 5 7 9 11 13 15 19 21 23 25 27 29 31 33 35 37 39 41 : JNT	Supply From: MDP Mounting: Surface Enclosure: Type 1 Circuit Description SPD (Surge Protective Device) PP1 PP2 LEISURE POOL LGT LAP POOL LGT LAP POOL LGT LAP POOL LGT Spare Spare LAP POOL UV TREATMENT LEISURE POOL UV TREATMENT WATER LEVEL CONTROLLERS WATER CHEM. CONT. LAP POOL LAP POOL HEATER A WATER CHEM. CONT. LAP POOL LAP POOL HEATER A WATER CHEM. CONT. LEISURE POOL Spare Spare	Trip 30 A 70 A 70 A 20 A	Poles 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	A 0 VA 5548 VA 5548 VA 440 VA 440 VA 10 VA 10 VA 10 VA 20 VA	0 VA 5548 VA 5548 VA 180 VA 864 VA 864 VA 10 VA 0 VA 4 VA 8 A	Phases: Wires: Vires: 0 VA 5548 VA 5548 VA 5548 VA 35548 VA 364 VA 1800 VA 1800 VA 28 0 VA 28 28 28 28	3 4 3 5548 ∨A 3699 ∨A 3699 ∨A 5548 ∨A 5548 ∨A 30 ∨A 30 ∨A 30 ∨A 30 ∨A 4 A	B 5548 VA 3699 VA 3699 VA 5548 VA 5548 VA 7133 VA 10 VA 10 VA 10 VA 10 VA 3624 30 0 VA 3624 30	5548 VA 3699 VA 5548 VA 5548 VA 200 VA 200 VA 360 VA 360 VA 360 VA 360 VA 3 A	3 3 3 3 3 1 1 1 1 1	N Ma M M M M M M M M M M M M M M M M M M	Aains Type: MCB ins Rating: 400 A ICB Rating: Circuit Description PP4 PP3 PP6 PP6 PP5 PP5 LAP POOL HEATER B ACID FEED PUMPS LAP POOL CONTROL PANEL CHLORINE FEED PUMPS CONV RECP. Spare Spare <t< td=""><td>2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40</td><td></td></t<>	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40	

Branch Panel: A Location: JAN. WATER/ ELECT. RM. A113

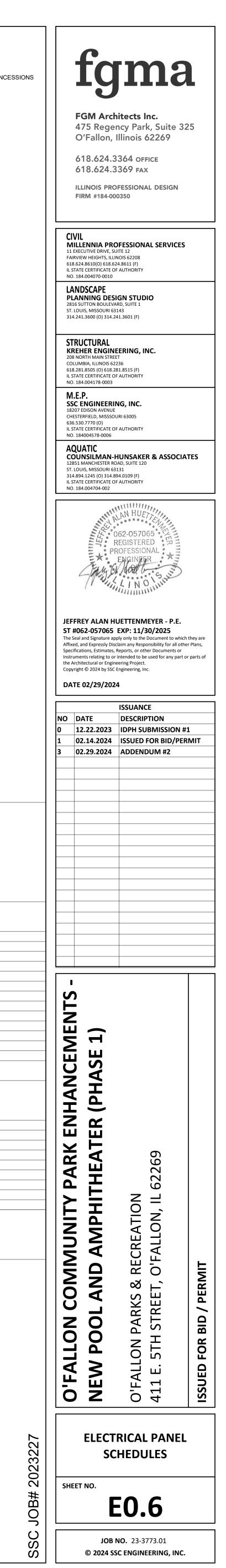
Location: JAN. WATER Supply From: MDP Mounting: Surface Enclosure: Type 1	R/ ELECT. RM. A113	Volts: 120/208 Wye Phases: 3 Wires: 4	3	A.I.C. Rating: 22000 Mains Type: MCB Mains Rating: 225 A MCB Rating:			 VERIFY AND COORDINATE ALL CIRCUIT BREAKER FOR MECHAN AND POOL EQUIPMENT WITH APPLICABLE TRADES PRIOR TO C AIC RATINGS ARE MINIMUM PERMISSIBLE TO MAINTAIN A FULL PROVIDE TYPEWRITTEN, FINAL ACCURATE PANEL SCHEDULES 	RDERING PANELS. Y RATED SYSTEM.
GLE SECTION PANEL								
Τ					СКТ			
ECKT	Trip Poles	B C A	B C	Poles Trip Circuit Description	CKT NOTE S			
	30 A 3 0 VA	500 VA VA 500 VA	00 VA	2 20 A SODA ICE MAKER	2 G 4			
5	0 	0 VA 5	216 VA	1 20 A RM A117 COUNTER FREEZER	6			
	20 A 1 1080 VA 20 A 1 180	360 VA	48 VA	1 20 A RM A117, A118 RECP POS 1 20 A RM 117 REF DISPLAY	8 10			
11 RM A111, A114, A115, A118 FLUSH VALVE	20 A 1	200 VA	600 VA	1 20 A RM A117 HOT DOG ROLLER/ BUN	l 12			
	20 A 1 1450 VA 20 A 1 1450 VA	2250 VA 2250 VA 22	250 VA	2 20 A RM 117 SPEED OVEN #1	14 G 16			
17 RM A111, A114, A115 GFI RECP	20 A 1	720 VA	3000 VA	2 30 A RM 117 SPEED OVEN #2	18 G			
	20 A 1 1450 VA 20 A 1 900	3000 VA	20 VA	 1 20 A EXTERIOR POOL RECP A	20 22			
23 RM A104 PRINTER	20 A 1	720 VA	720 VA	1 20 A EXTERIOR POOL RECP B	24			
	20 A 1 900 VA 20 A 1 720	900 VA 900 VA 1	80 VA	120 AROOFTOP RECP120 AA117 SAND/SALAD PREP	26 28			
	20 A 1	1080 VA 2500 VA	600 VA	1 20 A A117 WORKTOP FREEZER 2 35 A UH-1	30 32			
33 RM A105	20 A 1 72	29 VA 25	500 VA		34			
	20 A 1	720 VA 1200 VA	70 VA	120 ARP-1120 ASODA DISPENSER/BAG IN BOX	36 38			
39 RM A122 TV RECP	20 A 1 54	0 VA	33 VA	1 15 A EF-10	40			
	20 A 1 20 A 1 1800 VA	360 VA 1000 VA	1713 VA	120 AEXTERIOR POOL SITE LGT220 AICE MAKER	42 44			
45 RM A110 DUAL OVEN	25 A 2 205	50 VA 10	000 VA		46			
47 49 RM A110 RECP	20 A 1 720 VA	2050 VA 180 VA	100 VA	120 ADOOR HARDWARE120 ARM A123 DATA RACK RECP B	48 50			
	20 A 1 18 20 A 1 1	0 VA 1 180 VA	80 VA 3000 VA	1 20 A RM A121 AUDIO DATA RACK REC 2 40 A SINK HEATER CONCESSIONS	PB 52 54			
55 FACP	20 A 1 50 VA	3000 VA			56			
	20 A 1 120 20 A 1	00 VA 12 1400 VA	205 VA 1205 VA	2 20 A CU-1	58 60			
61 EXTERIOR RECP A	20 A 1 900 VA	720 VA		1 20 A EXTERIOR POOL RECP C	62			
	20 A 1 18 20 A 1 1	540 VA 12	200 VA 1450 VA	120 ARM A110 GARBAGE DISPOSAL120 ARM A118 HAND DRYER	64 66 G			
	20 A 1 900 VA	1520 VA		1 20 A EXTERIOR EAVE LGT	68			
	20 A 1 180 20 A 1 1	20 VA 12 720 VA 12	241 VA 0 VA	1 20 A RM A100-A107 LGT 1 20 A Spare	70 72			
	20 A 1 720 VA 20 A 1 600	1363 VA	46 VA	1 20 A RM A110-A121 LGT EF-9 1 20 A RM A122 LGT	74 76			
77 RM A117 FREEZER	20 A 1	1380 VA	470 VA	1 20 A EXTERIOR WALLPACK LGT	78			
	20 A 1 1080 VA 20 A 1 360	305 VA	35 VA	1 20 A CANOPY LGT 1 20 A EGRESS LGT	80 82			
	20 A 1	180 VA	50 VA	1 20 A SIGN FLOOD LGTS	84			
	Total Load: 31828 VA Total Amps: 267 A	A 21847 VA 182 A	23444 VA 197 A					
nd: FCI 5mA CIRCUIT BREAKER								
	Composited Load	Domand Faster 5	atimated Demand	Devel Tetele				
Classification	Connected Load 4280 VA	Demand FactorE100.00%	4280 VA	Panel Totals				
r	11230 VA 1491 VA	100.00% 100.00%	11230 VA 1491 VA	Total Conn. Load: 77119 VA Total Est. Demand: 58968 VA				
;	9000 VA	100.00%	9000 VA	Total Conn. Current: 214 A				
otacle ng - Exterior	47104 VA 1605 VA	60.61% 125.00%	28552 VA 2006 VA	Total Est. Demand Current: 164 A				
ng	2409 VA	100.00%	2409 VA					
5:								
Branch Panel: STAG						Switchboard: MDP		
Location: ELECT./ WA		Volts: 120/208 Wye)	A.I.C. Rating: 10000		Location: JAN. WATER/ ELECT. RM. A113	Volts: 120/208 Wye A.I.C. Rating: 35000	
Supply From: B		Phases: 3 Wires: 4		Mains Type: MLO Mains Rating: 60 A		Supply From: Mounting: Surface	Phases: 3Mains Type: MCBWires: 4Mains Rating: 1200 A	
				MCB Rating:		Enclosure: Type 1	MCB Rating: 1200 A	
Mounting: Surface Enclosure: Type 1						Notes:		
Mounting: Surface Enclosure: Type 1								
Mounting: Surface Enclosure: Type 1								
Mounting: Surface Enclosure: Type 1		B C A	ВС					
Mounting: Surface Enclosure: Type 1 : CKT	A Poles 30 A 3 0 VA	B C A 360 VA		Poles Trip Circuit Description 1 20 A SOUND CONTROL CTR RECP	CKT NOTE S 2 G	CKT Circuit Description 1 SPD (Surge Protective Device)	# of PolesFrame SizeTrip RatingLoadRemark3100 A30 A0 VA	(S
Mounting: Surface Enclosure: Type 1 : E CKT Circuit Description 1 SPD (Surge Protective Device) 3	Trip Poles 30 A 3 0 VA 0	360 VA 3	60 VA	120 ASOUND CONTROL CTR RECP120 ASOUND CONTROL CTR RECP	CKTNOTE2G4G	1 SPD (Surge Protective Device) 2 PANEL A	3 100 A 30 A 0 VA 3 225 A 225 A 77119 VA	(S
Mounting: Surface Enclosure: Type 1 :: CKT Circuit Description 1 SPD (Surge Protective Device) 3 5 7 STAGE RECP A	Trip Poles 30 A 3 0 VA 0 0 0 0 20 A 1 360 VA	Image: Weight of the second	60 VA 0 VA	120 ASOUND CONTROL CTR RECP120 ASOUND CONTROL CTR RECP120 ASpare120 ASpare	CKT NOTE 2 G 4 G 6 8	1SPD (Surge Protective Device)2PANEL A3PANEL SP4PANEL B	3 100 A 30 A 0 VA 3 225 A 225 A 77119 VA 3 400 A 400 A 104870 VA 3 225 A 225 A 56786 VA	(S
Mounting: Surface Enclosure: Type 1 Item 1 Enclosure: Type 1 Item 1 Enclosure: Type 1 Item 1 Enclosure: Type 1 <td>Trip Poles 30 A 3 0 VA 0 0 0 0 20 A 1 360 VA</td> <td>Image: Weight of the second second</td> <td>60 VA</td> <td>120 ASOUND CONTROL CTR RECP120 ASOUND CONTROL CTR RECP120 ASpare120 ASpare120 ASpare</td> <td>CKTNOTE2G4G66</td> <td>1 SPD (Surge Protective Device) 2 PANEL A 3 PANEL SP</td> <td>3 100 A 30 A 0 VA 3 225 A 225 A 77119 VA 3 400 A 400 A 104870 VA</td> <td>(S</td>	Trip Poles 30 A 3 0 VA 0 0 0 0 20 A 1 360 VA	Image: Weight of the second	60 VA	120 ASOUND CONTROL CTR RECP120 ASOUND CONTROL CTR RECP120 ASpare120 ASpare120 ASpare	CKTNOTE2G4G66	1 SPD (Surge Protective Device) 2 PANEL A 3 PANEL SP	3 100 A 30 A 0 VA 3 225 A 225 A 77119 VA 3 400 A 400 A 104870 VA	(S
Mounting: Surface Enclosure: Type 1 S: CKT Circuit Description 1 SPD (Surge Protective Device) 3 5 7 STAGE RECP A 9 STAGE RECP B 11 STAGE RECP C 13 STAGE RECP D	Trip Poles 30 A 3 0 VA 0 10 0 360 VA 0 20 A 1 360 VA 20 A 1 20 A 1 20 A 1 20 A 1	Image: Constraint of the second se	60 VA 0 VA 0 VA 0 VA 0 VA	120 ASOUND CONTROL CTR RECP120 ASOUND CONTROL CTR RECP120 ASpare120 ASpare120 ASpare120 ASpare120 ASpare120 ASpare120 ASpare120 ASpare120 ASpare	CKT NOTE 2 G 4 G 6	1SPD (Surge Protective Device)2PANEL A3PANEL SP4PANEL B5Space6RTU-17RTU-2	3 100 A 30 A 0 VA 3 225 A 225 A 77119 VA 3 400 A 400 A 104870 VA 3 225 A 225 A 56786 VA 3 3 100 A 35 A 6773 VA 3 100 A 45 A 8819 VA	(S
Mounting: Surface Enclosure: Type 1 Stage RECP A 9 STAGE RECP A 9 STAGE RECP C 11 STAGE RECP D 13 STAGE RECP D 15 RM C 158 DATA RACK	Trip Poles 30 A 3 0 VA 0 0 0 20 A 1 360 VA 20 A 1 20 A 1 20 A 1 20 A 1	Image: Constraint of the second se	60 VA 0 VA 0 VA	120 ASOUND CONTROL CTR RECP120 ASOUND CONTROL CTR RECP120 ASpare120 ASpare120 ASpare120 ASpare120 ASpare	CKT NOTE 2 G 4 G 6 10 12	1SPD (Surge Protective Device)2PANEL A3PANEL SP4PANEL B5Space6RTU-1	3 100 A 30 A 0 VA 3 225 A 225 A 77119 VA 3 400 A 400 A 104870 VA 3 225 A 225 A 56786 VA 3 3 100 A 35 A 6773 VA	(S
Mounting: Surface Enclosure: Type 1Enclosure: Ty	Trip Poles Image: constraint of the symbol constraint of the sym	Image: second	60 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	120 ASOUND CONTROL CTR RECP120 ASOUND CONTROL CTR RECP120 ASpare120 ASpare	CKT NOTE 2 G 4 G 6	1SPD (Surge Protective Device)2PANEL A3PANEL SP4PANEL B5Space6RTU-17RTU-28RTU-39RTU-410RTU-5	3 100 A 30 A 0 VA 3 225 A 225 A 77119 VA 3 400 A 400 A 104870 VA 3 225 A 225 A 56786 VA 3 3 100 A 35 A 6773 VA 3 100 A 35 A 6773 VA 3 100 A 30 A 5908 VA 3 100 A 45 A 8819 VA 3 100 A 40 A 4934 VA	(S
Mounting: Surface Enclosure: Type 1S:CKTCkrcuit Description1SPD (Surge Protective Device)3557STAGE RECP A99STAGE RECP B1111STAGE RECP C1315RM C 158 DATA RACK17STAGE LGT1921Spare2323Spare	Trip Poles Image: style sty	Image: second	60 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	120 ASOUND CONTROL CTR RECP120 ASOUND CONTROL CTR RECP120 ASpare120 ASpare	CKT NOTE 2 G 4 G 6 10 12 14 16 18 20 22 24	1SPD (Surge Protective Device)2PANEL A3PANEL SP4PANEL B5Space6RTU-17RTU-28RTU-39RTU-410RTU-511Spare12Space	3 100 A 30 A 0 VA 3 225 A 225 A 77119 VA 3 400 A 400 A 104870 VA 3 225 A 225 A 56786 VA 3 225 A 225 A 56786 VA 3 3 100 A 35 A 6773 VA 3 100 A 35 A 6773 VA 3 100 A 35 A 8819 VA 3 100 A 45 A 8819 VA 3 100 A 45 A 8819 VA 3 100 A 45 A 8819 VA 3 100 A 40 A 8934 VA 3 100 A 30 A 0 VA 3 100 A 30 A 0 VA	(S
Mounting: Surface Enclosure: Type 1CKTCircuit Description1SPD (Surge Protective Device)357STAGE RECP A9STAGE RECP B11STAGE RECP C13STAGE RECP D14STAGE RECP D15RM C 158 DATA RACK17STAGE LGT19Spare21Spare23Spare25Spare	Trip Poles Image: constraint of the symbol constraint of the sym	Image: Constraint of the second se	60 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	120 ASOUND CONTROL CTR RECP120 ASOUND CONTROL CTR RECP120 ASpare120 ASpare	CKT NOTE 2 G 4 G 6 10 12 14 16 20 22 24 26	1SPD (Surge Protective Device)2PANEL A3PANEL SP4PANEL B5Space6RTU-17RTU-28RTU-39RTU-410RTU-511Spare	3 100 A 30 A 0 VA 3 225 A 225 A 77119 VA 3 400 A 400 A 104870 VA 3 225 A 225 A 56786 VA 3 225 A 225 A 56786 VA 3 3 100 A 35 A 6773 VA 3 100 A 35 A 5908 VA 3 100 A 30 A 5908 VA 3 100 A 45 A 8819 VA 3 100 A 30 A 5908 VA 3 100 A 45 A 8819 VA 3 100 A 30 A 0 VA	(S
Mounting: Surface Enclosure: Type 1ECircuit Description1SPD (Surge Protective Device)357STAGE RECP A9STAGE RECP B11STAGE RECP D13STAGE RECP D14SPAGE RECP D15RM C 158 DATA RACK17STAGE LGT19Spare21Spare23Spare25Spare27Spare	Trip Poles Image: constraint of the symbol constraint of the sym	Image: state stat	60 VA 0 VA	120 ASOUND CONTROL CTR RECP120 ASOUND CONTROL CTR RECP120 ASpare120 ASpare	CKT NOTE 2 G 4 G 6 10 12 14 16 18 20 22 24	1SPD (Surge Protective Device)2PANEL A3PANEL SP4PANEL B5Space6RTU-17RTU-28RTU-39RTU-410RTU-511Spare12Space	3 100 A 30 A 0 VA 3 225 A 225 A 77119 VA 3 400 A 400 A 104870 VA 3 225 A 225 A 56786 VA 3 225 A 225 A 56786 VA 3 3 100 A 35 A 6773 VA 3 100 A 35 A 6773 VA 3 100 A 45 A 8819 VA 3 100 A 40 A 8934 VA 3 100 A 30 A 0 VA 3 100 A 40 A 8934 VA 3 100 A 30 A 0 VA 3 3	(S

Sup	Location: JAN. WATER/ ELECT. RM pply From: MDP Mounting: Surface Enclosure: Type 1	A113 Volts: 120. Phases: 3 Wires: 4	D/208 Wye	A.I.C. Rating: 22000 Mains Type: MCB Mains Rating: 225 A MCB Rating:			AND POOL EQUIPMENT WITH APPLIC 2. AIC RATINGS ARE MINIMUM PERMIS	CUIT BREAKER FOR MECHANICAL PLUMBING, CON CABLE TRADES PRIOR TO ORDERING PANELS. SIBLE TO MAINTAIN A FULLY RATED SYSTEM. CURATE PANEL SCHEDULES IN EACH PANEL.
Notes: SINGLE SECTION PANEL								
					OVT			
TE CKT TE NOTE CKT S S Circuit	Description Trip Poles	A B C	A B C Pol		CKT NOTE S			
1 SPD (Surge Prote			00 VA 22 500 VA -	20 A SODA ICE MAKER	2 G 4			
5 7 RM A102, A113 F	 RECP 20 A 1	0 VA	216 VA 1	20 A RM A117 COUNTER FREEZER 20 A RM A117, A118 RECP POS	6 8			
9 RM A123 DATA F G 11 RM A111, A114, A11	RACK RECP A 20 A 1	180 VA 200 VA	648 VA 1	20 A RM 117 REF DISPLAY 20 A RM A117 HOT DOG ROLLER/ BUN	10 12			
G 13 RM A114 HAND I	DRYER 20 A 1	1450 VA 225	50 VA 2	20 A RM 117 SPEED OVEN #1	14 G			
G 15 RM A115 HAND I 17 RM A111, A114, J	A115 GFI RECP 20 A 1	1450 VA 720 VA	2250 VA	30 A RM 117 SPEED OVEN #2	16 18 G			
G 19 RM A111 HANDE 21 RM A101 RECP	20 A 1	900 VA	00 VA	20 A EXTERIOR POOL RECP A	20 22			
23 RM A104 PRINTE 25 RM A104 RECP	20 A 1		720 VA 1 00 VA 1	20 A EXTERIOR POOL RECP B 20 A ROOFTOP RECP	24 26			
27 RM A104B RECP 29 RM A107 RECP	P 20 A 1 20 A 1	720 VA 1080 VA	180 VA 1 600 VA 1	20 AA117 SAND/SALAD PREP20 AA117 WORKTOP FREEZER	28 30			
31 RM A106 33 RM A105	20 A 1 20 A 1	900 VA 250 720 VA	00 VA 2500 VA -		32 34			
35 RM A116 RECP 37 RM A122, A112A	20 A 1	720 VA	70 VA 1	20 A RP-1 20 A SODA DISPENSER/BAG IN BOX	36 38			
39 RM A122 TV REC	CP 20 A 1	540 VA	83 VA 1	15 A EF-10	40			
G 41 RM A116 WATEF 43 RM A110 COFFE	EE MAKERS 20 A 1		1713 VA 1 00 VA 2		42 44			
45 RM A110 DUAL 0		2050 VA 2050 VA	1000 VA	20 A DOOR HARDWARE	46 48			
49RM A110 RECPG51A110 REFRIGER		720 VA 180 VA 180 VA	30 VA 180 VA 1	20 ARM A123 DATA RACK RECP B20 ARM A121 AUDIO DATA RACK RECP B	50 52			
G 53 RM A110 ICE MA 55 FACP		180 VA	00 VA 3000 VA 2	40 A SINK HEATER CONCESSIONS	54 56			
57 RM A110 DISHW 59 RM A110 MICRO	VASHER 20 A 1	1200 VA 1400 VA	1205 VA 2 1205 VA 2	20 A CU-1	58 60			
61 EXTERIOR RECF	PA 20A 1	900 VA 72	20 VA 1	20 A EXTERIOR POOL RECP C	62			
63 GWH-1 65 RENTAL PAVILIO		180 VA 540 VA	1200 VA 11 1450 VA 1	20 A RM A110 GARBAGE DISPOSAL 20 A RM A118 HAND DRYER	64 66 G			
67 RM A121 RECP 69 RM A121 AUDIO		900 VA 152 180 VA	20 VA 1241 VA 1	20 A EXTERIOR EAVE LGT 20 A RM A100-A107 LGT	68 70			
71 RM A120, RECP 73 RM A119 RECP		720 VA 720 VA 136	0 VA 1 63 VA 1	20 A Spare 20 A RM A110-A121 LGT EF-9	72 74			
G 75 RM A117 SINGLE G 77 RM A117 FREEZ	E FRIDGE 20 A 1	600 VA 1380 VA	746 VA 1 470 VA 1	20 A RM A122 LGT 20 A EXTERIOR WALLPACK LGT	76 78			
G 79 RM A117 FREEZ G 81 RM 117 POPCOF	ZER 20 A 1		05 VA 135 VA 1	20 A CANOPY LGT 20 A EGRESS LGT	80 82			
G 83 RM 117 HOT FOO		180 VA	50 VA 1	20 A SIGN FLOOD LGTS	84			
Legend: G=GFCI 5mA CIRCUIT BREAK	Total Amps	267 A 182 A	197 A	Panel Totals				
Lighting	4:	280 VA 100.00%	4280 VA					
Power Motor	14	230 VA 100.00% 491 VA 100.00%	11230 VA 1491 VA	Total Conn. Load: 77119 VA Total Est. Demand: 58968 VA				
HVAC Receptacle	47	000 VA 100.00% 104 VA 60.61%	9000 VA 28552 VA	Total Conn. Current: 214 A Total Est. Demand Current: 164 A				
Lighting - Exterior Heating		605 VA 125.00% 409 VA 100.00%	2006 VA 2409 VA					
Notes:								
	Panel: STAGE PAN Location: ELECT./ WATER RM. B150)/208 Wve	A.I.C. Rating: 10000		Switchboard: MDP Location: JAN. WATER/ ELECT. RM. A113	Volts: 120/208 Wye	A.I.C. Rating: 35000
Sup	pply From: B Mounting: Surface	Phases: 3 Wires: 4		Mains Type: MLO Mains Rating: 60 A		Supply From: Mounting: Surface	Phases: 3 Wires: 4	Mains Type: MCB Mains Rating: 1200 A
	Enclosure: Type 1	VIII63. 4		MCB Rating:		Enclosure: Type 1		MCB Rating: 1000 A
Notes:					Notes:			
СКТ			_		скт			
E NOTE CKT S Circuit	Description Trip Poles		A B C Po	es Trip Circuit Description	CKT NOTE S CK1		# of Poles Frame Size Trip Rating	Load Remarks
1 SPD (Surge Prote	ective Device) 30 A 3	0 VA 360 0 VA	60 VA 1 360 VA 1	20 A SOUND CONTROL CTR RECP 20 A SOUND CONTROL CTR RECP	2 G 1 4 G 2	SPD (Surge Protective Device) PANEL A	3 100 A 30 A 3 225 A 225 A	0 VA 77119 VA
5 7 STAGE RECP A	 20 A 1	0 VA	0 VA 1	20 A Spare 20 A Spare	6 3 8 4	PANEL SP PANEL B	3 400 A 400 A 3 225 A 225 A	104870 VA 56786 VA
9 STAGE RECP B 11 STAGE RECP C	20 A 1	360 VA 360 VA	0 VA 1	20 A Spare 20 A Spare 20 A Spare	0 4 10 5 12 6	Space	3 3 100 A 35 A	 6773 VA
13 STAGE RECP D	20 A 1	360 VA 0) VA 1	20 A Spare	14 7	RTU-2	3 100 A 45 A	8819 VA
15 RM C 158 DATA 17 STAGE LGT	20 A 1	360 VA 200 VA	0 VA 1	20 A Spare 20 A Spare	16 8 18 9	RTU-4	3 100 A 30 A 3 100 A 45 A	5908 VA 8819 VA
19Spare21Spare	20 A 1 20 A 1	0 VA 0 0 VA 0	0 VA 1 0 VA 1	20 A Spare 20 A Spare	20 10 22 11		3 100 A 40 A 3 100 A 30 A	8934 VA 0 VA
23 Spare 25 Spare	20 A 1 20 A 1	0 VA 0 VA 0	0 VA 1	20 A Spare 20 A Spare 20 A Spare	24 12 26 13	Space	3 3	
	20 A 1			· ·	28	·	Total Conn. Load:	
27 Spare		0 VA 0 VA	0 VA 1	20 A Spare	30			770 A
29 Spare	20 A 1 Total Load	0 VA 1080 VA 1080 VA	0 VA 1 A 560 VA	20 A Spare 20 A Spare	30 Legend	d:	Total Amps:	770 A
	20 A 1 Total Load Total Amps	0 VA 1080 VA 1080 VA	0 VA 1 A 560 VA		30	d:		770 A

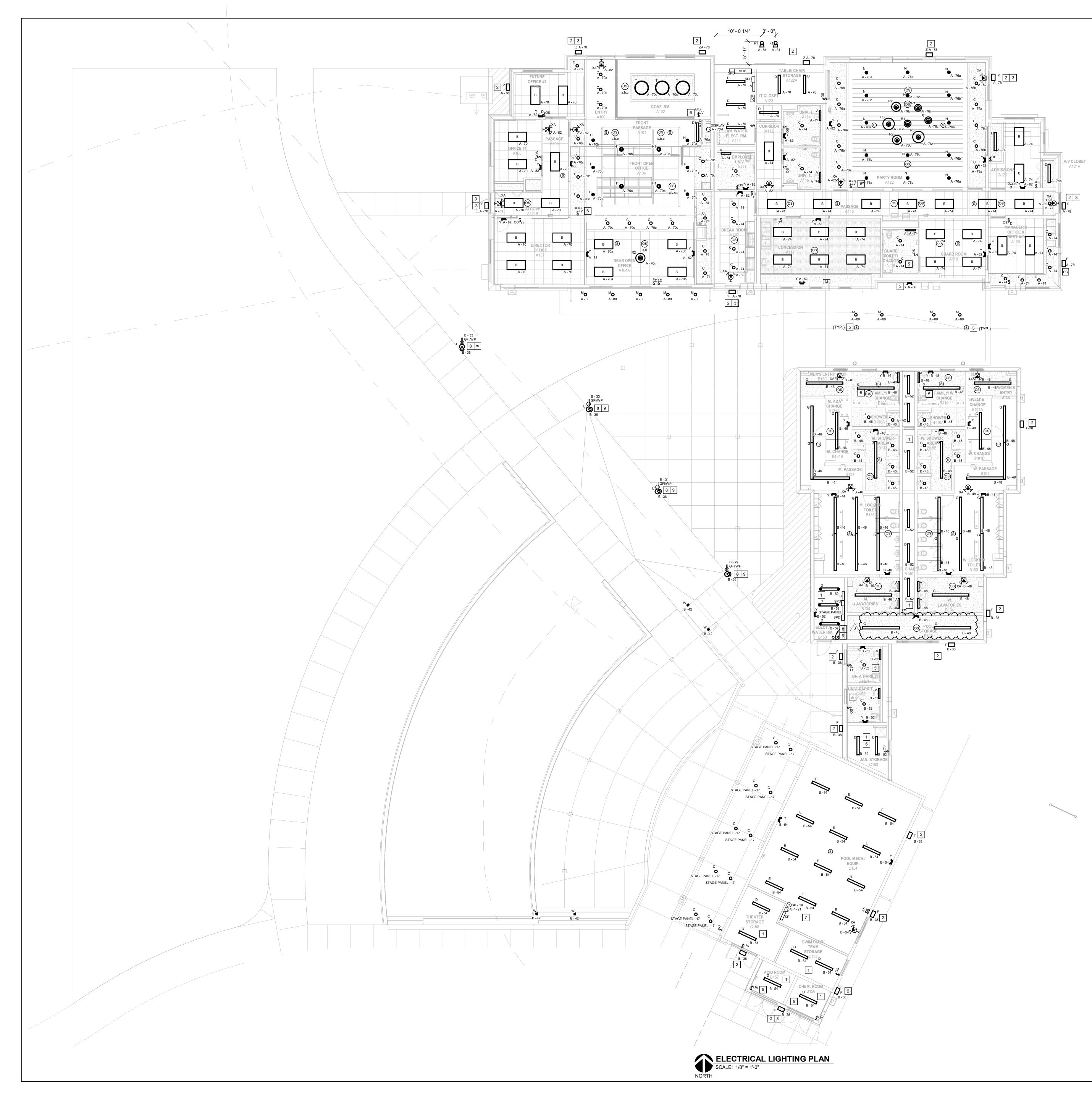
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel 1	Totals
ighting	200 VA	100.00%	200 VA		
Receptacle	2520 VA	100.00%	2520 VA	Total Conn. Load:	2720 VA
				Total Est. Demand:	2720 VA
				Total Conn. Current:	8 A
				Total Est. Demand Current:	8 A

Panel Totals Demand Factor Estimated Demand Load Classification Connected Load 7847 VA 100.00% 7847 VA Lighting Total Conn. Load: 277528 VA 18890 VA 100.00% 18890 VA Power Motor _____ Total Est. Demand: 250590 VA 3822 VA 100.00% 3822 VA HVAC Total Conn. Current: 770 A 48253 VA 100.00% 48253 VA Receptacle 65004 VA 57.69% Total Est. Demand Current: 696 A 37502 VA Lighting - Exterior 2257 VA 125.00% 2821 VA 100.00% Heating 131455 VA 131455 VA Notes:

GENERAL NOTES:







ELECTRICAL GENERAL NOTES:

- 1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
- 2. REFER TO THE ELECTRICAL DETAILS SHEET(S) FOR LIGHTING CONTROL SCHEMATIC. 3. REFER TO THE ELECTRICAL DETAILS SHEET(S) FOR SEISMIC SUPPORTS OF LIGHTING FIXTURES.
- 4. SUSPENDED CEILING SYSTEMS ARE DESIGNED TO SUPPORT THE WEIGHT OF ALL LIGHTING FIXTURES. THE STRUCTURAL FRAMING SHALL SUPPORT ALL CONDUITS, JUNCTION BOXES, ETC ABOVE CEILINGS.
- 5. EMERGENCY LIGHTING SHALL BE SWITCHED AND NOT BE USED AS A NIGHT LIGHT. CONNECT EMERGENCY BALLAST VOLTAGE SENSING LEADS AHEAD OF SWITCH LEG OR OTHER CONTROL DEVICE.

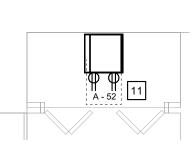
KEYED NOTES:

- 1 INSTALL LUMINAIRE 10' AFF FROM THE BOTTOM OF FIXTURE.
- 2 PROVIDE BRANCH CIRCUIT THROUGH LIGHTING CONTACTOR. REFER TO DETAIL 18/E0.4
- 3 PROVIDE UNSWITCHED HOT LEG FOR VOLTAGE SENSING TO EMERGENCY BATTERY DRIVER.
- 4 PROVIDE POWER CONNECTION TO BUILDING MOUNTED BACKLIT SIGN THROUGH WALL MOUNTED DISCONNECT SWITCH HIGH ON WALL. REFER TO ARCHITECTURAL PLAN.
- 5 PROVIDE POWER TO EF THROUGH OCCUPANCY SENSOR ALSO CONTROLLING THE LIGHTS IN THIS AREA. REFER TO E4.1.
- 6 PROVIDE LOW VOLTAGE LIGHTING CONTROL SYSTEM EQUIVALENT TO WATTSTOPPER DLM, 3 ZONE DIMMING CONTROLLER, WITH WALL SWITCH OCCUPANCY SENSORS, PHOTOCELL, AND RELAY FOR A COMPLETE AND OPERABLE SYSTEM.
- 7 PROVIDE 120V POWER CONNECTION TO LOW VOLTAGE TRANSFORMER. WIRE (#12 AWG) FROM THE (12V) SECONDARY SIDE OF THE TRANSFORMER (INTERMATIC PX50S) TO THE JUNCTION BOX (INTERMATIC PJB2175). EXTEND WIRE TO 12V POOL LIGHTING FIXTURES. ADJUST THE TRANSFORMER TAP SETTING ACCORDING TO THE MANUFACTURER'S GUIDELINES.
- 8 PROVIDE PEDESTRIAN SCALE LUMENAIRE, CONCRETE BASE AND RECEPTACLE IN POLE AS INDICATED REFER TO DETAIL 26/E0.4. PROVIDE SWITCH IN ELEC BISO FOR LOCAL CONTROL OF TYPE "L" LIGHTS DOWN STREAM FROM LIGHTING CONTACTOR. PROVIDE SIGN INDICATING USE OF SWITCH.
- 9 PROVIDE 4-POLE, 120, 20A LIGHTING CONTACTOR WITH 120V COIL. WIRE CIRCUITS TO GFI RECEPTACLES MOUNTED TO TYPE "L" POLES THROUGH CONTACTORS. PROVIDE SWITCH AND RUN 120V CONTROL COIL THROUGH SWITCH TO CONTACTOR COIL FOR LOCAL CONTROL. PROVIDE SIGN INDICATING USE OF SWITCH.

O'FALLON COMMUNITY PARK ENHANCEMENTS -	NO 0 1 3	ST is The S Affixe Spec Instru- the A Copy	NO SS 1822 CHI 6366 IL S NO AC CC 128 ST. 314 IL S	PL 281 ST. 314 ST ST KF 208 CO	M 11 FAI 618 IL S NO	
 NEW POOL AND AMPHITHEATER (PHASE 1)	DATE 12.22.2023 02.14.2024 02.29.2024	FREY ALAN H #062-057065 jeal and Signature ap ed, and Expressly Dis ifications, Estimates,	TATE CERTIFICATE C . 184.004178-0003 . E.P. C ENGINEERI 207 EDISON AVENUE ESTERFIELD, MISSSO 5.530.7770 (0) TATE CERTIFICATE C . 184004578-0006 CUATIC DUNSILMAN- 351 MANCHESTER R LOUIS, MISSOURI 63 L894.1245 (0) 314.8 TATE CERTIFICATE C . 184.004704-002	NDSCAPE ANNING DES 6 SUTTON BOULEV/ LOUIS, MISSOURI 63 4.241.3600 (O) 314.2 RUCTURAL REHER ENGIN 8 NORTH MAIN STRE LUMBIA, ILLINOIS 62 3.281.8505 (O) 618.2	EXECUTIVE DRIVE, S RVIEW HEIGHTS, ILL 3.624.8610(O) 618.6 TATE CERTIFICATE C . 184.004070-0010	475 Rege O'Fallon, 618.624.3 618.624.3
O'FALLON PARKS & RECREATION 411 E. 5TH STREET, O'FALLON, IL 62269	ISSUANCE DESCRIPTION IDPH SUBMISSION ISSUED FOR BID/F ADDENDUM #2	Engineering, Inc.	NG, INC. URI 63005 DF AUTHORITY HUNSAKER & ASSOC OAD, SUITE 120 8131 894.0109 (F) DF AUTHORITY	ARD, SUITE 1 3143 241.3601 (F) EERING, INC. ET 2236	INOIS 62208 24.8611 (F)	DFESSIONAL DESIGN
 ISSUED FOR BID / PERMIT		hich they are other Plans, or	CIATES		ES	

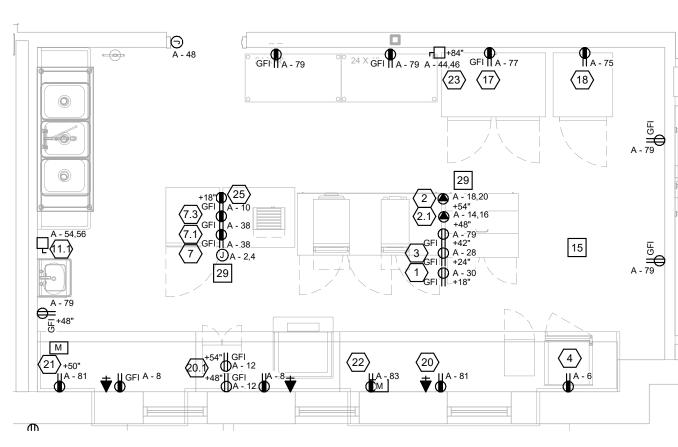
© 2024 SSC ENGINEERING, INC.

က |





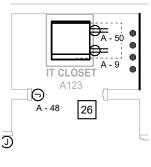
2 ELECTRICAL ENLARGED POWER & DATA PLAN - A/V CLOSET SCALE: 1/4" = 1'-0"





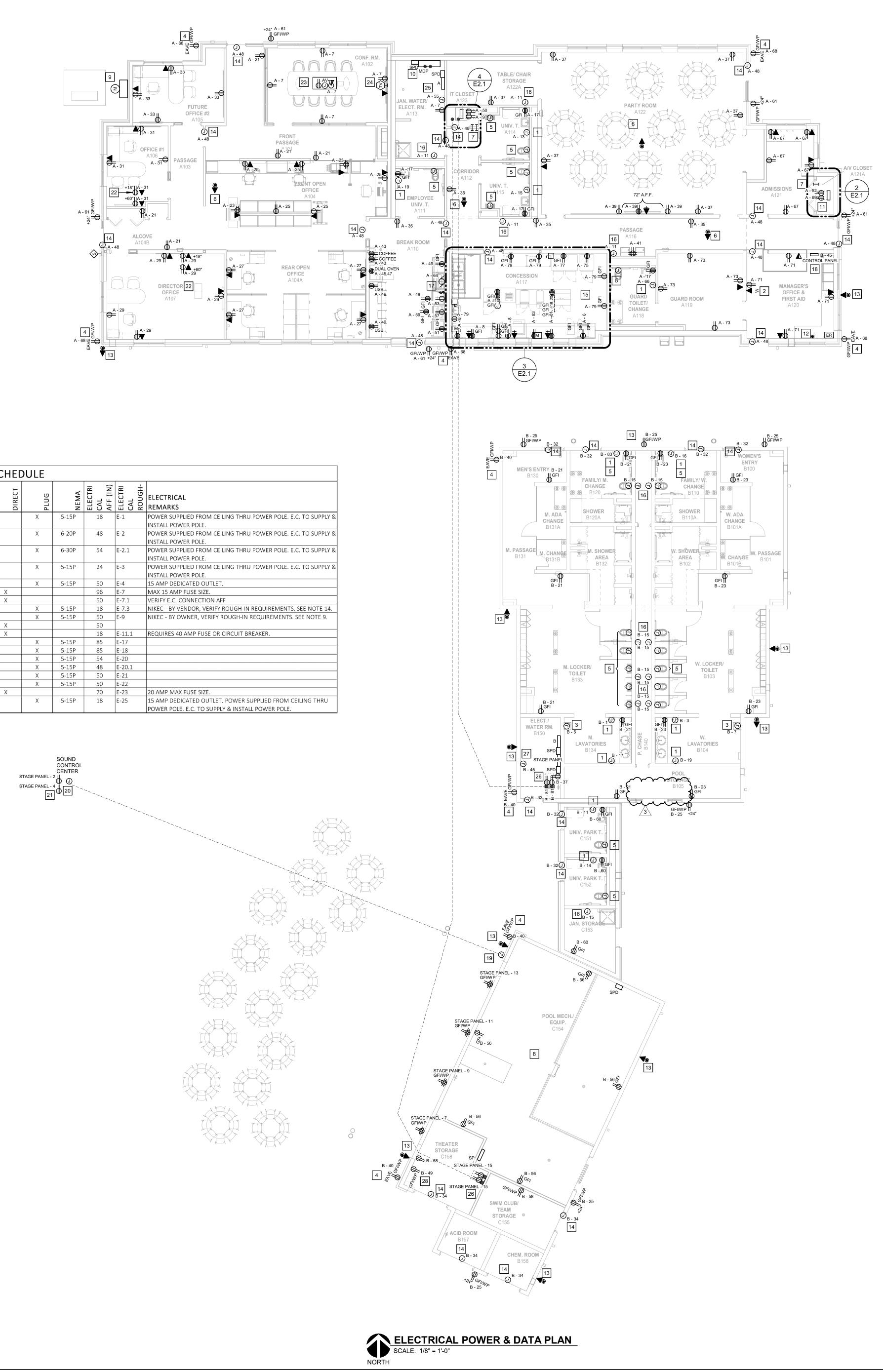
3 ELECTRICAL ENLARGED POWER & DATA PLAN - CONCESSION SCALE: 1/4" = 1'-0"

						ELECT	RICAL	SCł
ITEM NO	QTY	EQUIPMENT CATEGORY	AMPS	KW	ЧЬ	VOLTS	PHASE	
1	1	WORKTOP FREEZER	5.0		0.5	115	1	
2	1	RAPID COOK OVEN	2.0	4.5		208-240	1	
2.1	1	RAPID COOK OVEN	30.0	6.0		208-240	1	
3	1	REFRIGERATED SANDWICH/SALAD PREP	4.0		0.2	115	1	
4	1	COUNTER FREEZER	2.9		0.2	115	1	
7	1	ICE MAKER	9.5			208-230	1	Х
7.1	1	BEVERAGE DISPENSER	2.8			120	1	Х
7.3	1	BAG IN BOX	15			115	1	
9	3	POS SYSTEM DATA	15			115	1	X
11.1	1	SINK HEATER	20.0	6.0		208	1	X
17	1	REACH-IN FREEZER	11.5		0.8	115	1	
18	1	REACH-IN REFRIGERATOR	4.9		0.2	115	1	
20	1	HOT DOG GRILL	2.8	0.3		120	1	
20.1	1	BUN/FOOD WARMER	0.2			120	1	
21	1	POPCORN POPPER	2.4	0.3		120	1	
22	1	HOT FOOD DISPLAY CASE	2.4	0.3		120	1	
23	1	ICE MAKER	12.2			115	1	X
25	1	REFRIGERATED DISPLAY CASE	5.4		0.33	115	1	





4 ELECTRICAL ENLARGED POWER & DATA PLAN - IT CLOSET SCALE: 1/4" = 1'-0"



ELECTRICAL GENERAL NOTES:

- REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
 ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND HVAC WORK SHALL BE
- COORDINATED BY THE CONTRACTOR DOING THE WORK. ANY CORRECTIONS SHALL BE AT THE CONTRACTOR'S EXPENSE.
 3. ALL DISCONNECTS REQUIRED SHALL BE PROVIDED BY THE EC, U.N.O. SEE MECHANICAL & PLUMBING EQUIPMENT SCHEDULE(S) FOR EQUIPMENT DETAILS AND FOR DISCONNECTS FURNISHED BY OTHERS.
- REFER TO MANUFACTURER'S SPECIFICATIONS FOR MECHANICAL & PLUMBING EQUIPMENT CONNECTIC DETAILS. COORDINATE WITH APPLICABLE TRADES.
- 4. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122, SEE SPECIFICATIONS.
- ALL EXTERIOR ELECTRICAL EQUIPMENT AND DISCONNECT SWITCHES SHALL BE IN RATED NEMA 3R OF 4X ENCLOSURES. FINAL CONDUIT CONNECTIONS TO EXTERIOR MECHANICAL EQUIPMENT SHALL BE MADE WITH LFMC.
 REFER TO ELECTRICAL DETAILS SHEET(S) FOR ADDITIONAL PHONE AND DATA REQUIREMENTS.

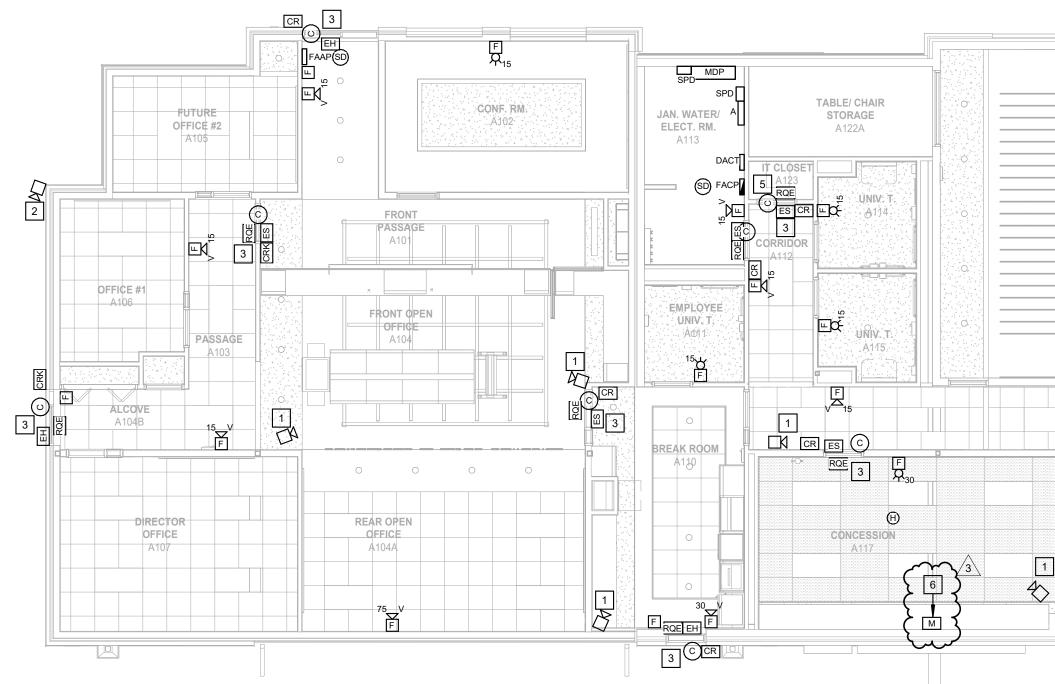
KEYED NOTES:

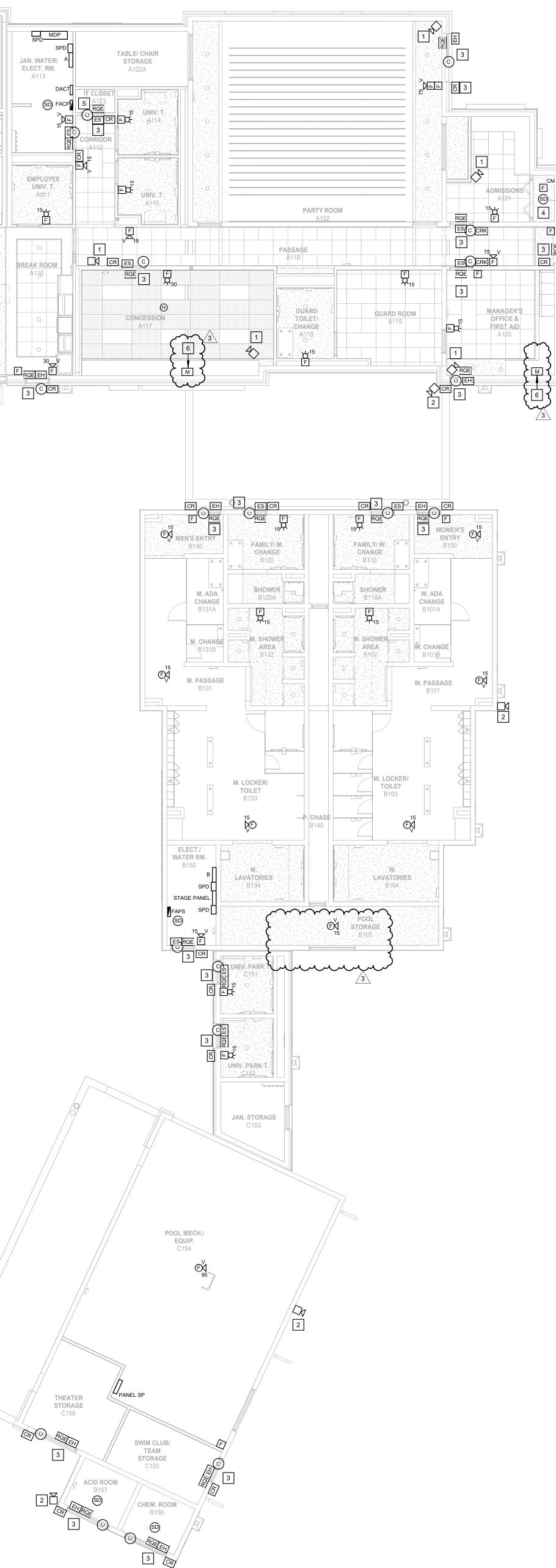
APPLICABLE.

- 1 PROVIDE GFI PROTECTED POWER FOR ELECTRIC HAND DRYER AS INDICATED. COORDINATE EXACT LOCATION WITH APPLICABLE TRADES.
- 2 POOL EMERGENCY PHONE.
- BROVIDE POWER FOR SUIT SPINNER. COORDINATE EXACT LOCATION WITH APPLICABLE
- 4 PROVIDE RECEPTACLES AS INDICATED AND INSTALL IN SOFFIT FACING DOWN
- 5 PROVIDE 120V POWER CONNECTION TO LOW VOLTAGE TRANSFORMER AND WIRE FROM TRANSFORMER SECONDARY TO RECESSED BOX FOR POWERING FLUSH VALVES. PROVIDE "GFI PROTECTED" LABEL AT TRANSFORMER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH APPLICABLE TRADES.
- 6 PROVIDE DATA OUTLET WITH 2 DATA CABLES/JACKS IN BISCUIT BOX FOR WIRELESS ACCESS POINT.
- 7 PROVIDE TWO (2) 2" HILTI SPEED SLEEVE OR EQUIVALENT CABLE PASS THROUGH DEVICE TO MAINTAIN FIRE AND SMOKE RATING WHEN PENETRATING PARTITION. ROUTE ALL LOW VOLTAGE CABLES THROUGH SLEEVE AND CLOSE SLEEVE PRIOR TO TURNOVER. INSTALL AT 11'-0" AFF.
- 8 REFER TO E4.2 FOR ADDITIONAL WORK IN THIS AREA.
- 9 PROVIDE CT CABINET AND METER SOCKET PER UTILITY REQUIREMENTS.
 10 PROVIDE (2) 4"C SLEEVES THROUGH ROOF AND CAP WEATHER TIGHT FOR FUTURE
- SOLAR PV CONDUCTORS. EXTEND CONDUITS 12" ABOVE AND BELOW ROOF DECK.
- ENABLED/FM MEDIA PLAYER, DESKTOP MICROPHONE, AMPLIFIED LOUDSPEAKER CONTROLLER, 70V LOUDSPEAKERS AND ASSOCIATED CABLES AND SUPPORTS FOR A COMPLETE AND OPERABLE AUDIO REPRODUCTION SYSTEM. REFER TO SPECIFICATION
- SECTION 260950. 12 PROVIDE EMERGENCY POWER OFF PUSH BUTTON TO OPERATE SHUNT TRIP BREAKERS IN PANEL SP FOR POOL PUMPS PP-5 AND PP-6.
- 13 PROVIDE WEATHER PROOF WHILE IN USE WALL MOUNTED DATA OUTLET FOR EXTERIOR RATED WIRELESS ACCESS POINT. COORDINATE WITH ARCHITECT AND G.C. FOR EXACT MOUNTING HEIGHT.
- 14 PROVIDE 120V POWER CONNECTION TO DOOR HARDWARE POWER SUPPLY. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DIVISION 8 CONTRACTOR.
- 15 ALL RECEPTACLES IN CONCESSION A117 SHALL BE GFCI PROTECTED AND READILY ACCESSIBLE WITHOUT MOVING EQUIPMENT. PROVIDE GFCI CIRCUIT BREAKERS AS REQUIRED. REFER TO 6/E0.4.
- 16 PROVIDE POWER CONNECTION AND SNAP SWITCH DISCONNECT FOR PC FURNISHED EC INSTALLED FLUSH VALVE TRANSFORMER ABOVE ACCESSIBLE CEILING. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH APPLICABLE TRADES.
- 17 PROVIDE ABOVE COUNTER WALL SWITCH AND POWER TO GARBAGE DISPOSAL. COORDINATE WITH PC TO PROVIDE RECEPTACLE OR HARDWIRE CONNECTION AS
- 18 PROVIDE CONTROL PANEL AND WIRING BETWEEN VFD'S AND REMOTE PUMP START PANEL FOR PUMPS PP-3,4,5 AND 6. PANEL SHALL BE EQUIVALENT TO THE FEATURE PUMP CONTROLLER BY H20 INTEGRATION CONTROLS AND PROVIDED BY EC. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH APPLICABLE TRADES.
- 19 PROVIDE "X" "X" SURFACE MOUNTED NEMA 4X J-BOX WITH (2) 1 ¼"C BETWEEN BOX AND SOUND CONTROL CENTER IN-GRADE BOX FOR FUTURE AV CABLES.
- 20 PROVIDE OUTDOOR IN-GRADE GROUND BOX WITH (2) 1 ½"C BETWEEN BAY AND WALL MOUNTED STAGE BOX FOR FUTURE AV CABLES. BOX SHALL BE EQUIVALENT TO LEGRAND #XB814CLVBK WITH JACKS AND CABLES PER OWNERS DIRECTION.
- 21 PROVIDE OUTDOOR IN-GRADE GROUND BOX EQUIVALENT TO LEGRAND #XB814C520C2BK WITH (2) NEMA 5-20A DEVICES ON 2 CIRCUITS. COORDINATE EXACT LOCATIONS IN FIELD WITH OWNER APPLICABLE TRADES.
- PROVIDE TV RECESSED WALL BOX EQUIVALENT TO WIREMOLD #WMPAC525FCW WITH DUPLEX RECEPTACLE (2) DATA JACKS/CABLES HOMERUN TO IRF AND HDMI JACK/CABLE TO LOWER BOX ON SAME WALL. REFER TO DETAIL 27/E0.4.
- 23 PROVIDE FLOOR BOX PER DETAIL 6/E0.5 WITH CONDUITS AND CABLING TO WALL MOUNTED TV BOX.
- 24 PROVIDE RECESSED WALL BOX FOR TV EQUIVALENT TO WIREMOLD #WMPAC525FCW WITH DUPLEX RECEPTACLE, (2) DATA JACKS/CABLES JACK/CABLE. INSTALL AT 72" A.F.F. COORDINATE EXACT LOCATION WITH WALL BLOCKING. TV MOUNT AND APPLICABLE TRADES. REFER TO DETAIL 27/E0.4
- PROVIDE 120V POWER TO FIRE ALARM CONTROL PANEL AS INDICATED.
 PROVIDE DATA RACK, GROUNDING BONDING, CONDUITS, PULL TAPES, RECEPTACLES, PLYWOOD BACKBOARD, TMGB, EQUIPMENT, SUPPORTS WIRE MANAGEMENT, PATCH PANELED, ETC. REFER TO 5,7,8, AND 8/E0.4 AND SPECIFICATIONS FOR ADDITIONAL AND INFORMATION.
- 27 PROVIDE 120V POWER TO FIRE ALARM POWER SUPPLY AS INDICATED.
- 28 CONTRACTOR TO PROVIDE DEDICATED GFI RECPTACLE FOR RAINBIRD IRRIGATION CONTROLLER.
- 29 PROVIDE STAINLESS STEEL VERTICAL WIREWAY WITH POWER DEVICES AS INDICATED HERE AND ON FS-3.0. WIREWAY SHALL BE EQUIVALENT TO PRACTICAL QUALITY SYSTEMS #81300 WITH 81320 ABOVE CEILING MOUNTING PLATE KIT, 81322 TRIM KIT, 81324 MOUNTING BASE PLATE AND CUSTOM CUTOUTS. MAKE OPENINGS IN WIREWAY TO ACCOMMODATE WIRING DEVICES WITH STAINLESS STEEL FACEPLATES FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. BRACE THE WIREWAY TO THE OVERHEAD STRUCTURE AND TO THE FLOOR.

S. TON DR		FGM Arch 475 Reger O'Fallon, 618.624.3 618.624.3	ncy Park, Suite 32 Illinois 62269 364 OFFICE 369 FAX FESSIONAL DESIGN	
	N 11 FA 61 IL: NC PI 28 ST 31 ST KI 200 CC 61 IL2 ST KI 200 CC 61 IL2 NC AI CO 12 ST ST	EXECUTIVE DRIVE, SU RVIEW HEIGHTS, ILLI 8.624.8610(0) 618.62 STATE CERTIFICATE OI 0. 184.004070-0010 ANDSCAPE LANNING DESI 16 SUTTON BOULEVA LOUIS, MISSOURI 63 4.241.3600 (0) 314.24 TRUCTURAL REHER ENGINI 8 NORTH MAIN STREE 120 MISSOURI 63 8.281.8505 (0) 618.23 STATE CERTIFICATE OI 0. 184.004178-0003 I.E.P. SC ENGINEERII 207 EDISON AVENUE IESTERFIELD, MISSSOU 6.530.7770 (0) STATE CERTIFICATE OI 0. 184004578-0006 QUATIC	NOIS 62208 14.8611 (F) F AUTHORITY IGN STUDIO RD, SUITE 1 143 41.3601 (F) EERING, INC. ET 236 81.8515 (F) F AUTHORITY NG, INC. JRI 63005 F AUTHORITY HUNSAKER & ASSOCIA NAD, SUITE 120 131 94.0109 (F)	TES
	ST The Affix Spec Instr the Cop	FREY ALAN HI #062-057065 Seal and Signature ap red, and Expressly Disc ifications, Estimates,	EGISTERED ROFESSIONAL ENGINER ENGINER ENGINER UETTENMEYER - P.E. EXP: 11/30/2025 ply only to the Document to which taim any Responsibility for all othe Reports, or other Documents or intended to be used for any part of cering Project. Engineering, Inc.	r Plans, r parts of 1
	O'EALLON COMMINITY DARK ENHANCEME		O'FALLON PARKS & RECREATION 411 E. 5TH STREET, O'FALLON, IL 62269	ISSUED FOR BID / PERMIT
SSC JOB# 2023227		EET NO.	l power & d plan E2.1	ΟΑΤΑ
SSC .			NO. 23-3773.01 C ENGINEERING, INC.	

VOICE/DATA, ACCESS CONTROL AND VIDEO SURVEILLANCE INCLUDES ROUGH-IN BOXES, PATHWAYS, CONTROL AND VIDEO SURVEILLANCE INCLUDES ROUGHIN BOXES, PATHWAYS, CONDUIT TO ABOVE CEILING AND ACCESSIBLE CEILING, CAT 6 CABLE, JACKS, TERMINATIONS, PULL STRINGS, AND COVERPLATES. OWNER'S VENDOR WILL FURNISH AND INSTALL RACK, PATCH PANELS, EQUIPMENT, ELECTRONICS, CAMERAS, AND HEAD END.







ELECTRICAL GENERAL NOTES:

- 1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
- ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND HVAC WORK SHALL BE COORDINATED BY THE CONTRACTOR DOING THE WORK. ANY CORRECTIONS SHALL BE AT THAT CONTRACTOR'S EXPENSE.
- 3. REFER TO ELECTRICAL DETAILS SHEET(S) FOR ADDITIONAL ACCESS CONTROL, SECURITY & VIDEO SURVEILLANCE REQUIREMENTS.
- 4. PROVIDE 120V POWER AND LOW VOLTAGE ROUGH-IN'S FOR DOOR ACCESS CONTROL AND SECURITY DEVICES AS REQUIRED. COORDINATE WITH APPLICABLE TRADES. REFER TO DOOR HARDWARE SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. 5. REFER TO DETAILS 7 AND 8 ON E0.5 FOR ADDITIONAL FIRE ALARM REQUIREMENTS.

KEYED NOTES:

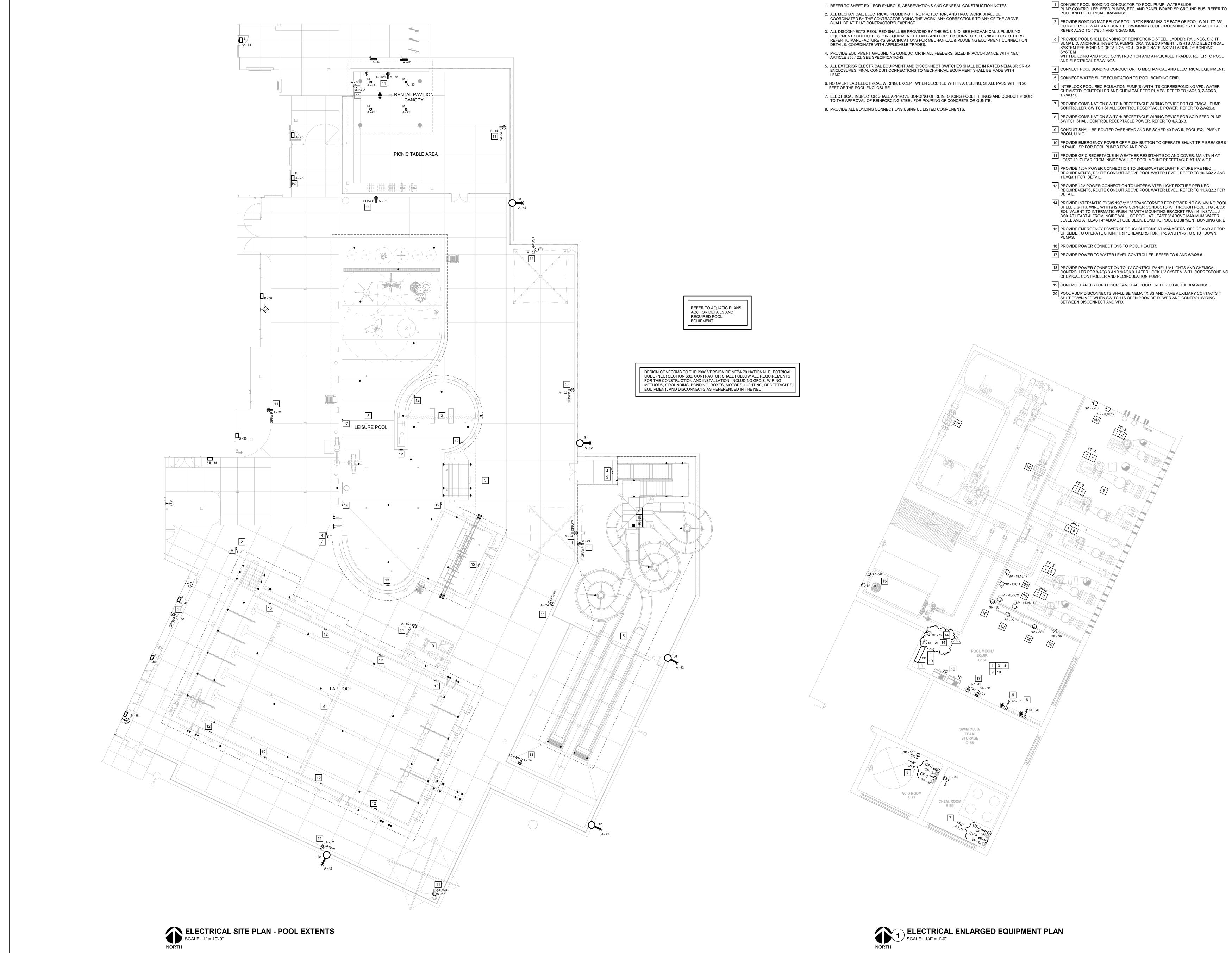
A/V CLOSET

2

A121A

- 1 PROVIDE ROUGH-IN FOR CAMERA WITH CABLE AND JACK. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER AND APPLICABLE TRADES
- 2 PROVIDE WEATHER PROOF WHILE IN USE WALL MOUNTED DATA OUTLET FOR EXTERIOR RATED CAMERA. COORDINATE WITH ARCHITECT AND G.C. FOR EXACT
- MOUNTING HEIGHT. 3 PROVIDE ACCESS CONTROL SYSTEM COMPLETE WITH CARD READER, DOOR CONTACT, REQUEST TO EXIT SENSOR AND ALL CABLING FOR ELECTRIC STRIKE FURNISHED BY DIV 8 AND WIRED BY EC.
- 4 NOTED FIRE ALARM CONTROL MODULE WILL SUPERVISE AUDIO SYSTEM POWER. IN THE EVENT OF A ALARM POWER IS TO BE SWITCHED OFF TO THE AUDIO SYSTEM. 5 PROVIDE FIRE CONTROL MODULE FOR RELEASE OF ACCESS CONTROL LOCK UPON FIRE
- 6 PROVIDE DUAL XLR MICROPHONE JACKS FLUSH MOUNTED IN WALL BOX AND CONNECTED TO AV RACK IN A/V CLOSET A121A hummun

SSC.	JOB# 2	SSC JOB# 2023227									
	SHE	EL	O'FALLON COMMUNITY PARK FNHANCEMENTS -	NO 0 1 3	ST 4 The S Affixe Speci Instru the A Copy	KR 208 COI 618 IL S NO M SS 182 CHE 636 IL S NO AC CC CC 2128 ST. 314 IL S	M 11 I FAIR 618 IL S NO LA PL 281 ST. 314				
	ET NO.		NEW POOL AND AMPHITHEATER (PHASE 1)	DATE 12.22.2023 02.14.2024 02.29.2024	FREY ALAN HI #062-057065 eal and Signature ap ed, and Expressly Disc fications, Estimates,	RUCTURAL REHER ENGINI NORTH MAIN STREE UMBIA, ILLINOIS 62. .281.8505 (0) 618.2 TATE CERTIFICATE O .184.004178-0003 E.P. CENGINEERII 07 EDISON AVENUE ESTERFIELD, MISSSOU .530.7770 (0) TATE CERTIFICATE O .184004578-0006 QUATIC DUNSILMAN-H 51 MANCHESTER RC LOUIS, MISSOURI 63 .894.1245 (0) 314.8 TATE CERTIFICATE O .184.004704-002	ILLENNIA PRC EXECUTIVE DRIVE, SU RVIEW HEIGHTS, ILLI .624.8610(0) 618.62 TATE CERTIFICATE OD .184.004070-0010 NDSCAPE ANNING DESI 6 SUTTON BOULEVA LOUIS, MISSOURI 63 .241.3600 (O) 314.22	FIRM #184-00	475 Rege O'Fallon,	J	
NO. 23-3773.01 SC ENGINEERING, IN	3.1	AL FIRE ALA JRITY PLAN	O'FALLON PARKS & RECREATION 411 E. 5TH STREET, O'FALLON, IL 62269	ISSUANCE DESCRIPTION IDPH SUBMISSION ISSUED FOR BID/P ADDENDUM #2	Engineering, Inc.	ET 236 81.8515 (F) F AUTHORITY NG, INC. JRI 63005 F AUTHORITY HUNSAKER & ASSOC JAD, SUITE 120 131 94.0109 (F)	NOIS 62208 24.8611 (F) F AUTHORITY IGN STUDIO IRD, SUITE 1 143		ncy Park, Suite Illinois 62269 364 OFFICE	jma	
с.		RM &	ISSUED FOR BID / PERMIT		hich they are other Plans, or	CIATES	ES		325	a	



2/29/2024 9:31:32 AM C:\Users\dschmidt\Do

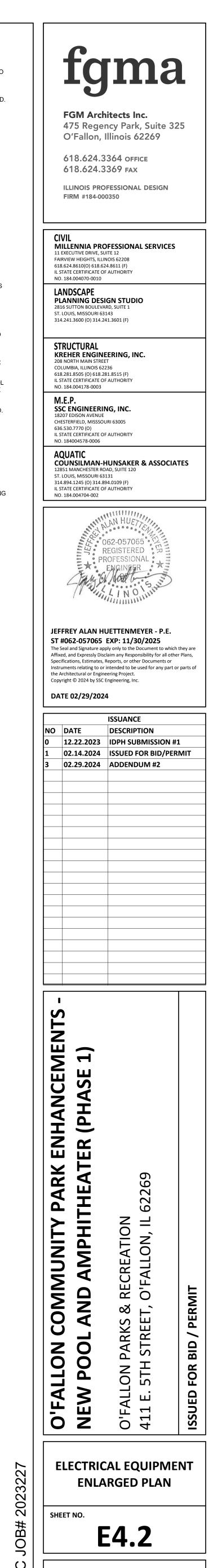
ELECTRICAL GENERAL NOTES:

KEYED NOTES:

- 2 PROVIDE BONDING MAT BELOW POOL DECK FROM INSIDE FACE OF POOL WALL TO 36" OUTSIDE POOL WALL AND BOND TO SWIMMING POOL GROUNDING SYSTEM AS DETAILED.
- 3 PROVIDE POOL SHELL BONDING OF REINFORCING STEEL, LADDER, RAILINGS, SIGHT SUMP LID, ANCHORS, INSERTS, PUMPS, DRAINS, EQUIPMENT, LIGHTS AND ELECTRICAL SYSTEM PER BONDING DETAIL ON E0.4. COORDINATE INSTALLATION OF BONDING WITH BUILDING AND POOL CONSTRUCTION AND APPLICABLE TRADES. REFER TO POOL
- 4 CONNECT POOL BONDING CONDUCTOR TO MECHANICAL AND ELECTRICAL EQUIPMENT.
- 6 INTERLOCK POOL RECIRCULATION PUMP(S) WITH ITS CORRESPONDING VFD, WATER

- 14 PROVIDE INTERMATIC PX505 120V;12 V TRANSFORMER FOR POWERING SWIMMING POOL SHELL LIGHTS. WIRE WITH #12 AWG COPPER CONDUCTORS THROUGH POOL LTG J-BOX
- BOX AT LEAST 4' FROM INSIDE WALL OF POOL, AT LEAST 8" ABOVE MAXIMUM WATER LEVEL AND AT LEAST 4" ABOVE POOL DECK. BOND TO POOL EQUIPMENT BONDING GRID.
- --- OF SLIDE TO OPERATE SHUNT TRIP BREAKERS FOR PP-5 AND PP-6 TO SHUT DOWN

- 19 CONTROL PANELS FOR LEISURE AND LAP POOLS. REFER TO AQX.X DRAWINGS.
- SHUT DOWN VFD WHEN SWITCH IS OPEN PROVIDE POWER AND CONTROL WIRING BETWEEN DISCONNECT AND VFD.



JOB NO. 23-3773.01 © 2024 SSC ENGINEERING, INC.



Project	NEW POOL AND AMPHITHEATER (PHASE 1)	Substitution Request Number:
	O'FALLON PARKS AND RECREATION	From: Ace Sign Co.
To:		Date: <u>2/23/2024</u>
		A/E Project Number: 23-3773.01
Re:		Contract For: Signage
Specifica	ation Title: Signage (Interior & Exterior)	_ Description: Panel, Dimensional Signage
	Section: <u>10 1419</u> Page: <u>3 & 5</u>	_ Article/Paragraph:2.2A(2) and 2.3C(1)
Proposed	1 Substitution: Panel signage & acrylic dimensional le	etter set made by Ace
	turer: Ace Sign Co. Address: 2540 S. First Street,	
Trade Na	ame: Fill in Series	Model No.:
Attached of the red	l data includes product description, specifications, drawing quest; applicable portions of the data are clearly identified.	s, photographs, and performance and test data adequate for evaluation

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by:	Day Elloser Ucobda	
Signed by:	Jane E. Mosey-Nicoletta	Signature required
Firm:	Ace Sign Co.	
Address:	2540 S. First Street	
	Springfield, IL 62704	
Telephone:□	217-522-8417 (Jane's Direct # 217-717-1610)	
A/E's REVIEV	W AND ACTION	

X Substitution approved - Make submittals in accordance with Specification Section 013300. Substitution approved as noted - Make submittals in accordance with Specification Section 013300. Substitution rejected - Use specified materials. Substitution Request received too late - Use specified materials. Signed by: Date: 2.27.2024 ant ann Brennan Hartin - FGM Architects X Product Data Samples Tests Reports Supporting Data Attached: Drawings

© Copyright 1996, Construction Specifications Institute, 99 Canal Center Plaza, Suite 300 Alexandria, VA 22314

of
0

September 1996 CSI Form 1.5C

Advancement of Construction Technology

SUBSTITUTION REQUEST

(During the Bidding Phase)

Project	NEW POOL AND AMPHITHEATER (PHASE 1) O'FALLON PARKS AND RECREATION	Substitution Request N From:Michae	Iumber:01		
То:	FGMA	Date:	-		
Re:	Ground Face Masonry Units	Contract For:	Masonry		
Specifica	ation Title: Concrete Unit Masonry Section:04-22-00 Page:6				
Proposed Substitution: <u>B.P. Boilliant Stone</u> in fieu of <i>Basis of Disin</i> Colors Manufacturer: <u>Building Products</u> Address: <u>494 N. 33th st. East st Lonis</u> , <u>D</u> Phone: <u>800-424-6282</u> Trade Name:					

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by:		<u> </u>
Signed by: Firm:	Toenjes Brick Contracting	Signature required
Address:	714 DD Rd Columbia, IL 62236	
Telephone:	618-281-9292	

A/E's REVIEW AND ACTION

 Substitution approved - N Substitution approved as Substitution rejected - Us Substitution Request reco 	noted - Make subr se specified materi	nittals in accordance als.	cification Section with Specification	013300. n Section 013300.	
Signed by: Brenn	maffanti				Date: 02.29.2024
Supporting Data Attached:	Drawings	Product Data	Samples	Tests	Reports
© Copyright 1996, Construction 99 Canal Center Plaza, Suite 30			Page of		September 1996 CSI Form 1.5C