ADDENDUM NO. 3

February 2, 2023

The Riviera Club Aquatics Center
5640 North Illinois Street
Indianapolis, IN 46208

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated December 5, 2022, by Schmidt Associates, Inc. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 3-1, RFI Listing and attached Schmidt Associates Addendum No. 3 Dated January 31, 2023, Consisting of 25 pages, Specification Sections: 230923 – Digital Control System for HVAC and Addendum Drawings: G000, CL101, LP101, SF1A1, SF1AM, S-401, S-414, AF1B1, A-600, AQS102, M101, M102, M301, M601, M901, P100, P101, P903, E101, E201, E301, E500, E501.

A. SPECIFICATION SECTION 01 23 00 ALTERNATES

Add the following Alternate:

E. Alternate No 5 – Youth Pool and Splash Pad
   a. Base Bid: None
   b. Alternate Bid: Provide Equipment Building and all MEP scope for the Youth Pool and Splash Pad as indicated on the drawings. Youth pool, splash pad features, and associated concrete to be bid at a later date.

SCHMIDT ASSOCIATES
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Better rsight
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Indianapolis IN
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Bidding Questions & Responses

2021-178.RVI
Riviera Club Aquatics Center
1/31/2023

ID	Question	Answer
BID RFI-001	The General Notes #2 on Sheet CD101 states to "See Electrical Site Plan, for all Electrical , Phone and Technology Demolition Work. There wasn't any electrical site drawings for demolition or install issued in the contract drawings. Will these drawing be issued?	Response (Answered) from: Joyce Myers/Zach Markell (KBSO) Remarks: Addressed in Addenda No. 1 & 2.
Bid RFI-002	Both the civil drawings and the electrical drawings calls out the location of the generator, but I did not see any location calling out the location of the utility transformer. Please advise.	Response (Answered) from: Joyce Myers/Zach Markell (KBSO) Remarks: Addressed in Addenda No. 1 & 2.
Bid RFI-003	There are no details or detail drawings shown for the installation of the utility transformer or generator pad. Please provide details.	Response (Answered) from: Joyce Myers/Zach Markell (KBSO) Remarks: Addressed in Addenda No. 1 & 2.
Bid RFI-004	On Sheet E101, it shows a location for (1) flow & (1) tamper switch located in room BLDG MECH 04. Sheet Keynotes #20 states to coordinate the quantity and location of the tamper and flow switches with the Fire Protection contractor. There are no FP drawings issued in the contract drawing set. Is there a FP contractor and/or will there be any FP drawings issued?	Response (Answered) from: Joyce Myers/Zach Markell (KBSO) Remarks: Addressed in Addenda No. 1 & 2.
Bid RFI-005	Sheet E000 shows the symbols for the Fire Alarm System. In the Specifications, Division 28 has spec section 283100 – Digital, Addressable Fire-Alarm System. However, this spec section appears to be a PDF of the draft document because it has line items stating to insert data (i.e. approved manufacturer etc.). Is there a preferred fire alarm vendor the Riviera Club uses and what Make & model does the Fire system need to be?	Response (Answered) from: Joyce Myers/Zach Markell (KBSO) Remarks: Addressed in Addenda No. 1 & 2.
Bid RFI-006	In the spec section, the Table of Contents, under Division 27, states "NOT APPICABLE". On Sheet E000 there is not any schedule or table showing Division 27 Identity symbols. Sheet E000 does show Fire Alarm Identity symbols and some miscellaneous" Rough-IN Identity Symbols". Sheet E101 Sheet Keynotes#16 states to provide a wall mount hinged 26 RU Technology Rack Enclosure. This is typically a Division 27 item. Does this need to be included in the bid?	Response (Answered) from: Joyce Myers/Zach Markell (KBSO) Remarks: Addressed in Addenda No. 1 & 2.
Bid RFI-007	The following symbols have not been designated in the contract documents.	Response (Answered) from: Joyce Myers (KBSO) Remarks: Addressed in Addenda No. 1.

ID	Question	Answer
Bid RFI-008	Specification section calls for exterior doors to be Kawneer 500T thermally broken doors and the interior doors to be 500 wide stile doors. Would the doors exposed to the pool for example 19, 02.2, and 11.3 need to be thermally broken?	Response (Answered) from: Brandon Fox (SAI) Remarks: No.
Bid RFI-009	Spec Section 06 16 00 2.4 - Indicates this is a 3/4" ventilated nailbase. The roof assembly detail 1C - SH-1 on drawing AR100 does not indicate a ventilated nailbase. Please indicate which is correct?	Response (Answered) from: Brandon Fox (SAI) Remarks: To be addressed in Addendum No. 1.
Bid RFI-010	Roof Assembly SP-2 / 1B on sheet AR100 - This roof assembly has a note that indicates there should be no penetrating fasteners. Spec section 07 54 23 3.4.2 indicates the substrate board should be fastened to the metal deck. Please indicate which is correct? (NRCA does not recommend adhering directly to the metal deck. In this instance, it would be recommended to fasten the substrate to the deck using stainless steel fasteners and adhering the remainder of the roof assembly to the vapor retarder with low rise foam adhesive)	Response (Answered) from: Brandon Fox (SAI) Remarks: No penetrating fasteners above pool environment.
Bid RFI-011	The substrate board in specification 07 54 23 2.5.A states it should be 5/8" thick. Roof assembly SP-2 on sheet AR100 indicates the substrate board to be 1/4". We assume 5/8" is the desired thickness. Please confirm.	Response (Answered) from: Brandon Fox (SAI) Remarks: Substrate boards as specified, with the exception of the bottom layer of substrate board at pool environment which can be 1/4" as indicated.
Bid RFI-012	Specification 07 54 23 2.5.A indicates the substrate board can be type X drywall. Please confirm this is correct.	Response (Answered) from: Brandon Fox (SAI) Remarks: To be addressed in Addendum No. 1.
Bid RFI-013	Specification 07 54 23 2.8.D mentions a cover board but it is not specified. The roof assemblies SP-1 and SP-2 show / mention a coverboard but again it is not specified. What type of coverboard should this be? What thickness?	Response (Answered) from: Brandon Fox (SAI) Remarks: Per specs, roofing membrane manufacturer's approved and warranted cover board.
Bid RFI-014	Specification 07 54 23 2.9.A indicates there are walk way pads but there are none shown on the drawings. Please confirm no walk way pads are required?	Response (Answered) from: Brandon Fox (SAI) Remarks: To be addressed in Addendum No. 1. Also refer to General Roof Plan Note D.
Bid RFI-015	Can the fastening method of the roof assemblies SP-2 and SP-1 be clarified? Spec section 07 54 23 3.6.H indicates to fasten all layers of the insulation but paragraph 07 54 23 3.6.H.2 indicates to fasten the bottom layer and adhere the top layers. (Adhering a roof assembly with low rise foam adhesive is very expensive. The most cost effective assembly while still obtaining a thermal break would be to adhere an HD ISO cover board only and fasten all layers of insulation)	Response (Answered) from: Brandon Fox (SAI) Remarks: To be addressed in Addendum No. 1.

ID	Question	Answer
Bid RFI-016	The AQ drawings indicate the Pool Concrete is to be Mix Design Class "B" however drawing S-600 doesn't reflect the mix designs as which is Class "B". Please confirm the mix design for the pool concrete work as I see the pool concrete is to contain DCI that Is not included in any of the S-600 mixes.	Response (Answered) from: Jake Shelley (LHB) Remarks: To be addressed in Addendum No. 1.
Bid RFI-017	Is there to be underdrain monitoring well as not shown on the AQ drawings?	Response (Answered) from: Marv Trietsch (ARD) Remarks: No requirement for monitoring well (soils report indicates water table at -12'. Structurally no reason for it
Bid RFI-018	Substitution Request: 095113 - Soundcore Single Baffles	Response (Answered) from: Asia Coffee (SAI) Remarks:To be addressed in Addendum #1.
Bid RFI-019	Substitution Request: 081613.99 - Special-Lite AF-200 door and AF-150 frame	Response (Answered) from: Brandon Fox (SAI) Remarks: To be addressed in Addendum No. 1.
Bid RFI-020	Substitution Request: 230923 - Reliable Controls	Response (Answered) from: Joyce Myers (KBSO) Remarks: After discussion with the manufacturer, Reliable Controls will not be allowed to bid this project as an acceptable manufacturer.
Bid RFI-021	102600 – Wall and Door Protection, states that Custom Digital Graphics by Construction Specialties – Acrovyn by Design, are to be made with 0.060" thickness. This material is only available in a 0.040" thickness material. Can the Architect please revise this thickness as such?	Response (Answered) from: Asia Coffee (SAI) Remarks:To be addressed in Addendum #1.
Bid RFI-022	Substitution Request: 098413 Sound Seal S-2100 High Impact Acoustical Wall Panels	Response (Answered) from: Asia Coffee (SAI) Remarks:To be addressed in Addendum #1.
Bid RFI-023	Substitution Request: 095113 - Sound Seal Vertex Slim	Response (Answered) from: Asia Coffee (SAI) Remarks: Rejected.
Bid RFI-024	Plastic locker type Y is shown as a 4 tier unit on sheet A401. Specs call for 2 tier. Please clarify which is correct.	Response (Answered) from: Brandon Fox (SAI) Remarks: To be addressed in Addendum No. 1.
Bid RFI-025	Is a certain fire rating or flame spread rating required on the plastic lockers?	Response (Answered) from: Brandon Fox (SAI) Remarks: Bid to the best of your ability based on available information.
Bid RFI-026	Are the loose benches in rooms 09 and 10 part of the scope? If so, please provide specification section and details.	Response (Answered) from: Brandon Fox (SAI) Remarks: To be addressed in Addendum No. 1.
Bid RFI-027	Fire protection: Are we to assume that the area surrounding the pool "Pool Deck" is to be protected?	Response (Answered) from: Joyce Myers (KBSO) Remarks: Yes.
Bid RFI-028	Sheet AR100 Note 6 calls out a pergola on the south side of the pool area. Will protection need to be accounted for under this pergola area?	Response (Answered) from: Brandon Fox (SAI) Remarks: Unable to address prior to addendum being issued.

ID	Question	Answer
Bid RFI-029	Electrical, referencing items from Addendum 1: Does both control panels need to be six pole, 365-day programmable control, astronomical timeclock, and photocell compatablity	Response (Answered) from: Joyce Myers (KBSO) Remarks: To be addressed in Addendum No. 2.
Bid RFI-030	Electrical, referencing items from Addendum 1: Are the approved manufacturers for the Lighting Control Panels the same as listed in Spec Section 260923.2.1.A?	Response (Answered) from: Joyce Myers (KBSO) Remarks: To be addressed in Addendum No 2.
Bid RFI-031	Substitution Request: Summit Phenolic Lockers	Response (Answered) from: Brandon Fox (SAI) Remarks: Rejected (remaining with plastic).
Bid RFI-032	The structural drawings, on the foundation plans on the bid set as well as both addendums call for "Grout block cores @ bars" but when I go to the details on S401, they call for "Grout all block cores and collar joints solid below grade". Can you clarify if I am supposed to follow the details on S401 or if I am supposed to follow the foundation floor plan notes?	Response (Answered) from: Jake Shelley (LHB) Remarks: To be addressed in Addendum No. 3.
Bid RFI-033	Along with the grouting locations, can you clarify if the foundation on detail 5/S401 is supposed to be a 12" block, 3" insulation, and a 4" block instead of only a 12" and 4" block. I am confused as to why details 3/S401 and 4/S401 show the 12"CMU+3" Insualtion+4" CMU but the detail 5/S401 is only 12"CMU+4"CMU. See pictures below for more clarification.	Response (Answered) from: Jake Shelley (LHB) Remarks: To be addressed in Addendum No. 3.
Bid RFI-034	Substitution Request: 237313 Ice Western Sales	Response (Answered) from: Joyce Myers (KBSO) Remarks: Rejected.
Bid RFI-035	Substitution Request: 237416 Ice Western Sales	Response (Answered) from: Joyce Myers (KBSO) Remarks: Rejected.

ADDENDUM NO. 3
JANUARY 31, 2023

PREPARED BY SCHMIDT ASSOCIATES FOR:
THE RIVIERA CLUB AQUATICS CENTER
THE RIVIERA CLUB

This Addendum consists of 2 Addendum pages and 23 attachment pages totaling 25 pages.

Acknowledge receipt of this Addendum by inserting its number on the Bid Form. Failure to do so may subject the Bid to disqualification. This Addendum is part of the Contract Documents.

Bidder is encouraged to verify with reprographer of record all Addenda issued (do not rely exclusively on third party plan room services).

PART 1 - CHANGES TO PRIOR ADDENDA (NOT APPLICABLE)

PART 2 - CHANGES TO THE PROJECT MANUAL

Modifications described herein shall be incorporated in the Project Manual. All other Work shall remain unchanged.

2.1 DIVISION 23 - HEATING, VENTILATING, AND AIR-CONDITIONING(HVAC)

A. **Section 230923 "DIGITAL CONTROL (DDC) SYSTEM FOR HVAC"**

1. DELETE AND REPLACE Paragraph 5.2.B. in its entirety and replace with the following:

   "B. The Control System Contractor shall provide 40 hours of comprehensive training in two separate sessions (80 hours total) for system orientation, product maintenance and troubleshooting, programming and engineering. How the 80 training hours (total) shall be used will be discussed and approved with the owner to best suit their needs."

PART 3 - CHANGES TO THE DRAWINGS

Modifications described herein shall be incorporated in the Drawings. All other Work shall remain un-changed.

3.1 DRAWING SHEETS: ADDITIONS, DELETIONS AND REPLACEMENTS

DRAWING NO.	INDICATE ACTION: REPLACE (R), ADD (A), DELETE (D)
G-SERIES DRAWINGS	
G-000	DELETE AND REPLACE
C-SERIES DRAWINGS	
CL101	DELETE AND REPLACE
LP101	DELETE AND REPLACE
S-SERIES DRAWINGS	
SF1A1	DELETE AND REPLACE
SF1AM	DELETE AND REPLACE
S-401	DELETE AND REPLACE
S-414	DELETE AND REPLACE
A-SERIES DRAWINGS	
AF1B1	DELETE AND REPLACE
A-600	DELETE AND REPLACE
AQ-SERIES DRAWINGS	
AQS102	ADD
M-SERIES DRAWINGS	
M101	DELETE AND REPLACE
M102	DELETE AND REPLACE
M301	DELETE AND REPLACE
M601	DELETE AND REPLACE
M901	DELETE AND REPLACE
P-SERIES DRAWINGS	
P100	DELETE AND REPLACE
P101	DELETE AND REPLACE
P903	DELETE AND REPLACE
E-SERIES DRAWINGS	
E101	DELETE AND REPLACE
E201	DELETE AND REPLACE
E301	DELETE AND REPLACE
E500	DELETE AND REPLACE
E501	DELETE AND REPLACE

END OF ADDENDUM 3

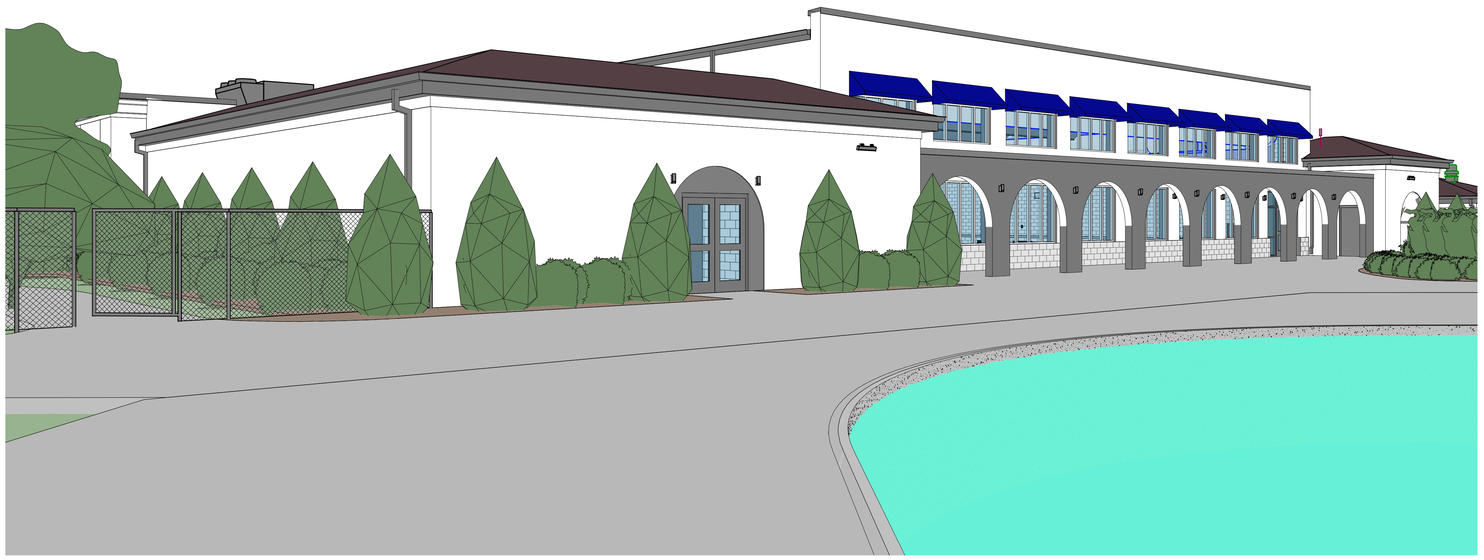
The Riviera Club
Aquatics Center

2021-178.RVI
5640 N Illinois St
Indianapolis, IN 46208

THE RIVIERA CLUB
EST. 1933

12.05.2022

2021-178.RVI



SHEETS ADDED BY ADDENDUM:

A2
ADDENDUM NO. 1
S-402
P901
P902
P903
E101

ADDENDUM NO. 2
S-414
AF1B1

A3
ADDENDUM NO. 3
AQS102

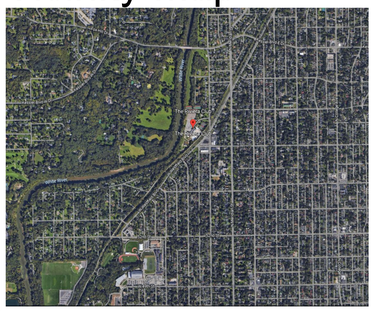
SHEET INDEX

General Notes

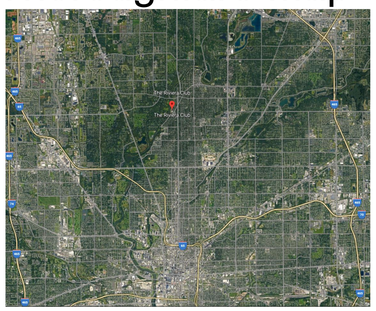
Nothing set forth in these Drawings shall release any Contractor from responsibility to provide appropriate quantities, field measurements, dimensional stability, installation, anchorage and coordination with other trades, or waive the Contractor's responsibility to identify and resolve deviations from the requirements of the Contract Documents, or waive the Contractor's responsibility to alert the Architect to errors or omissions contained therein.
Each Contractor shall verify in the field all existing applicable conditions and dimensions shown on the Drawings and as pertinent to the intent of these Drawings. Any discrepancy discovered shall be brought to the attention of the Architect prior to the commencement of any Work affected by, or related to, such discrepancy.
Each Contractor shall be responsible for all costs associated with, or caused by failure to comply with requirements.
Each Contractor shall review in advance all portions of the Work to verify that the Work will not prohibit completion of the Project as intended in these Contract Documents. Any questions shall be promptly referred to the Architect for resolution.

Each Contractor shall refer to the Project Manual for cleaning and disposal requirements.
Each Contractor shall be responsible for the protection of all surfaces and finishes at interior and exterior of building. Damaged surfaces and finishes resulting from the performance of the Work shall be repaired at no cost to the Owner by the responsible Contractor to match existing to the satisfaction of the Owner.
Each Contractor shall coordinate respective cutting and patching Work with the other Prime Contracts.
Each Contractor shall become completely familiar with all aspects of the Work, even those areas designated to be provided by others. This familiarization includes full and complete understanding of the Work described on all Sheets of the Drawings and in all Sections of the Project Manual. Failure by the Contractor to become completely familiar and cognizant of all aspects of the Work shall not relieve the Contractor of the responsibility to provide materials, assemblies, or services indicated in the Contract Documents.

Vicinity Map



Thoroughfare Map



SARAH KATHLEEN HUMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

ROBERT M. DEJ REGISTERED No. 10100205 STATE OF INDIANA PROFESSIONAL ENGINEER

JAMES J. KACIUS REGISTERED No. AR00860009 STATE OF INDIANA ARCHITECT

KYLE E. MILLER REGISTERED NO. 19900465 STATE OF INDIANA PROFESSIONAL ENGINEER

JOYCE ELLEN JONES REGISTERED No. PE60920263 STATE OF INDIANA PROFESSIONAL ENGINEER

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kbso CONSULTING

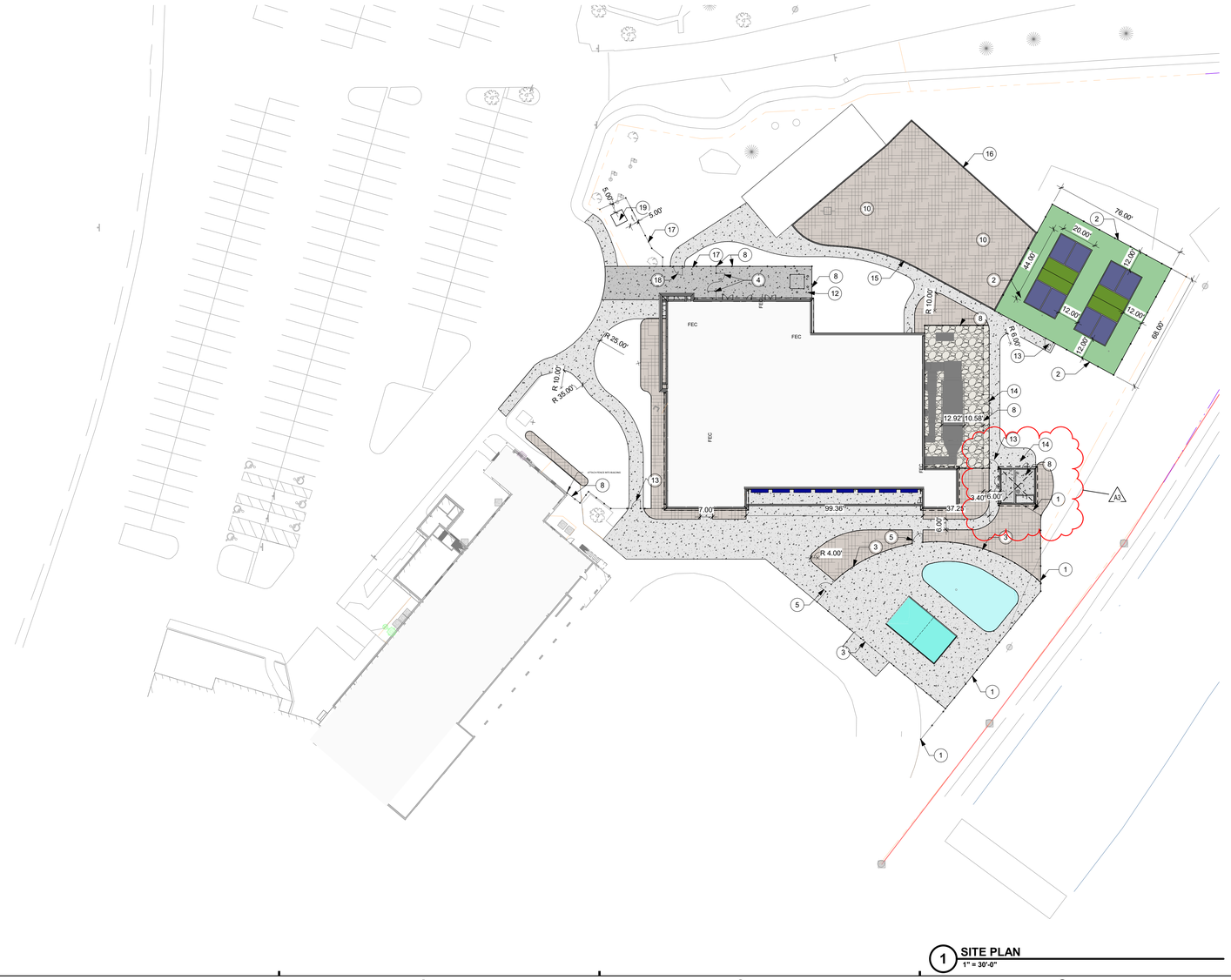
Lynch, Harrison & Brumleve, Inc.

Aquatic & Recreation Design

SKILLMAN
The SKILLMAN Corporation
Project Administration
Construction Management

The Riviera Club
Aquatics Center

G-000



GENERAL LAYOUT NOTES

1. REFERENCE C-001 FOR GENERAL LAYOUT PLAN NOTES.
2. NORTHING AND EASTING COORDINATES ARE STATE PLANE COORDINATES BASED ON A TOPOGRAPHIC SURVEY. REFER TO SURVEY DRAWINGS FOR HORIZONTAL CONTROL POINT DATA.
3. ALL EXISTING PAVEMENT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO MATCH EXISTING CONDITIONS.

SITE LAYOUT LEGEND

	STANDARD ASPHALT PAVING,
	HEAVY DUTY ASPHALT PAVING,
	STANDARD CONCRETE PAVING,
	HEAVY DUTY CONCRETE PAVING,

SITE LAYOUT NOTES

Key	Note
1	6' HIGH BLACK VINYL CHAINLINK FENCE.
2	8' HIGH BLACK VINYL CHAINLINK FENCE.
3	4' HIGH ORNAMENTAL FENCE.
4	6' HIGH, 8' WIDE BLACK VINYL CHAINLINK DOUBLE SWING GATE.
5	4' HIGH, 5' WIDE SINGLE SWING GATE.
7	6' HIGH , 5' WIDE CHAINLINK SINGLE SWING GATE.
8	8' HIGH BLACK VINYL CHAINLINK FENCE WITH PRIVACY SLATS.
9	ALTERNATE BID. NEW TENNIS COURT.
10	RELOCATED PLAYGROUND EQUIPMENT.
11	6' HIGH BLACK VINYL CHAINLINK FENCE WITH PRIVACY SLATS.
12	9" DIAMETER, 4' HIGH BOLLARDS
13	8' HIGH, 5' WIDE SINGLE SWING GATE.
14	8' HIGH, 10' WIDE DOUBLE SWING GATE.
15	INTEGRAL CURB. SEE DETAILS.
16	CONCRETE CURB. SEE DETAILS.
17	5' HIGH ORNAMENTAL FENCE. SALVAGED IF POSSIBLE.
18	5' HIGH, 5' WIDE SINGLE SWING GATE.
19	NEW TRANSFORMER. SEE E-SERIES FOR LOCATION.

1 **SITE PLAN**
1" = 30'-0"

SCHMIDT
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www.schmidt-arch.com

Project No. 2021-178.RVI
Project Date 12.05.2022
Produced KL

KYLE E. MILLER
REGISTERED
NO.
19900465
STATE OF
INDIANA
PROFESSIONAL ENGINEER

#	Revision	Date
A2	Addendum #2	01-12-2023
A3	Addendum #3	01-31-2023

5640 N Illinois St,
Indianapolis, IN 46208

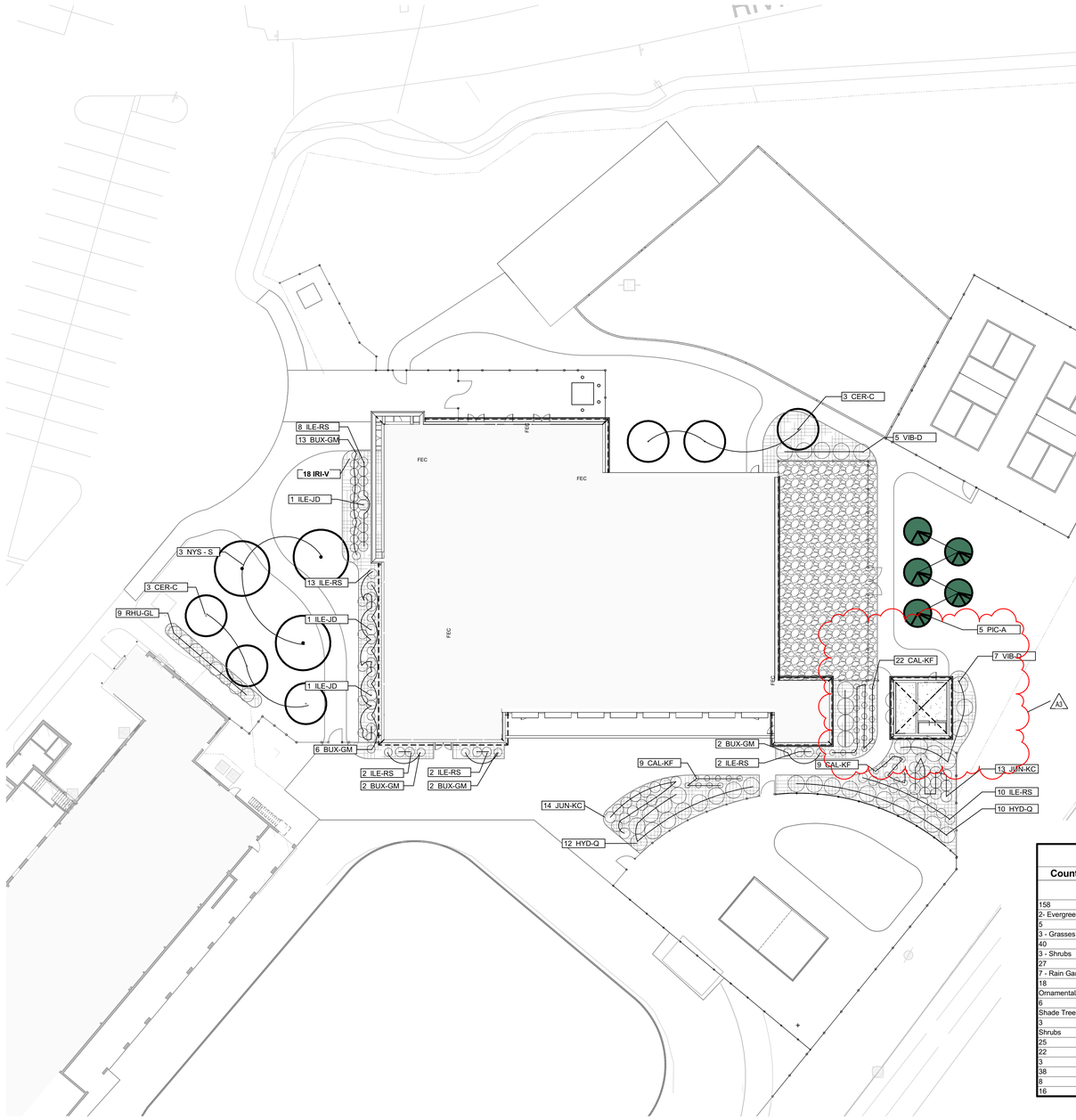
N

The Riviera Club

Aquatic Center Project

SITE LAYOUT PLAN

CL101



LANDSCAPE LEGEND

	PROPOSED CANOPY TREE
	PROPOSED EVERGREEN TREE
	PROPOSED ORNAMENTAL TREE
	PROPOSED SHRUB
	GENERAL TURF SEED MIX. SEE SPECS

PLANTING SCHEDULE

Count	Key	Scientific Name	Common Name	Size	Condition
158					
2- Evergreen					
5	PIC-A	Picea abies	Norway Spruce	6' ht.	B&B
3 - Grasses					
40	CAL-KF	Calamagrostis arundinacea 'Karl Forester'	Karl Forester Feather Reed Grass	1 Gal.	Cont.
3 - Shrubs					
27	JUN-KC	Juniperus × pfitzeriana 'Kallay's Compact'	Kallay Pfitzer Juniper	3 Gal.	Cont.
7 - Rain Garden					
18		Eupatorium purpureum	Sweet Joe Pye Weed	18"	Cont.
Ornamental/ Evergreen Trees					
6	CER-C	Cercis canadensis	Eastern redbud	1.5" Cal.	B&B
Shade Trees					
3	NYS - S	Nyssa sylvatica	Black Tupelo	2.5" Cal.	B&B
Shrubs					
25	BUX-GM	Buxus x koreana 'Green Mountain'	green mountain boxwood	18"ht.	Cont.
22	HYD-Q	Hydrangea quercifolia 'Pee Wee'	Pee Wee oakleaf hydrangea	3 Gal, 24" min Ht	Cont.
3	ILE-JD	Ilex verticillata 'Jim Dandy'	early male winterberry	3 Gal, 24" min Ht	Cont.
38	ILE-RS	Ilex verticillata 'Red Sprite'	Red Sprite early female winterberry	3 Gal, 24" min Ht	Cont.
8	RHU-GL	Rhus aromatica 'Gro-Low'	'Gro-Low' Fragrant Sumac	3 Gal, 24" min Ht	Cont.
16	VIB-D	Viburnum dentatum	arrowwood viburnum	3 Gal, 24" min Ht	Cont.

1 **SITE PLAN - Landscape**
1" = 20'-0"

NOTE:
NEED 1 ILEX VERTICILLATA "JIM DANDY' PER EVERY 5 'RED SPIRTE' TO GET GOOD FRUITING

A2

SCHMIDT
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KYLE E. MILLER
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#	Revision	Date
A2	Addendum #2	01-12-2023
A3	Addendum #3	01-31-2023

5640 N Illinois St,
Indianapolis, IN 46208

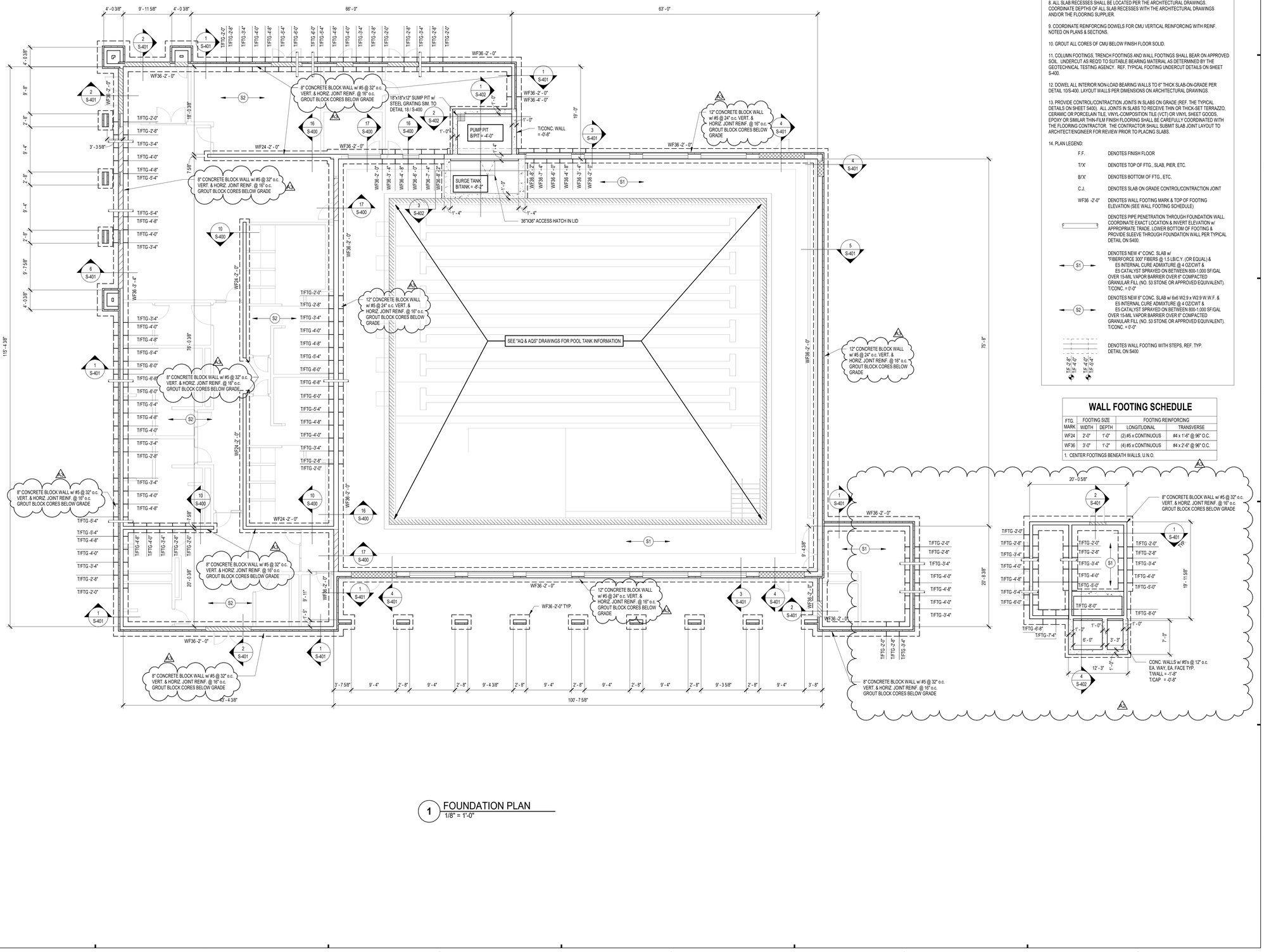
N

The Riviera Club

Aquatic Center Project

PLANTING PLAN

LP101



1 FOUNDATION PLAN
1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. REF. S-600 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.

2. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.

3. COORDINATE EXACT SIZE & LOCATION OF ALL MECHANICAL OPENINGS IN FOUNDATION WALLS WITH THE MECHANICAL, ELECTRICAL & PLUMBING CONTRACTORS.

4. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FINISH FLOOR ELEVATION 0'-0" (U.S.G.S. 712.36). REF. CIVIL DWGS.

5. REF. ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.

6. REF. S-400 FOR TYPICAL FOUNDATION DETAILS.

7. NOTE: PERIMETER WALL AND COLUMN FOOTINGS SHALL BE LOWERED AND/OR SLEEVED TO PASS BELOW PLUMBING LINES (I.E. SANITARY & STORM SEWERS, WATER LINES, ETC.) SHOWN ON THE PLUMBING DRAWINGS. PROVIDE FOOTING STEPS AS REQUIRED PER THE TYPICAL DETAILS ON S400.

8. ALL SLAB RECESSES SHALL BE LOCATED PER THE ARCHITECTURAL DRAWINGS. COORDINATE DEPTHS OF ALL SLAB RECESSES WITH THE ARCHITECTURAL DRAWINGS AND/OR THE FLOORING SUPPLIER.

9. COORDINATE REINFORCING DOWELS FOR CMU VERTICAL REINFORCING WITH REINF. NOTED ON PLANS & SECTIONS.

10. GROUT ALL CORES OF CMU BELOW FINISH FLOOR SOLID.

11. COLUMN FOOTINGS, TRENCH FOOTINGS AND WALL FOOTINGS SHALL BEAR ON APPROVED SOIL. UNDERCUT AS REQ'D TO SUITABLE BEARING MATERIAL AS DETERMINED BY THE GEOTECHNICAL TESTING AGENCY. REF. TYPICAL FOOTING UNDERCUT DETAILS ON SHEET S-400.

12. DOWEL ALL INTERIOR NON-LOAD BEARING WALLS TO 6" THICK SLAB-ON-GRADE PER DETAIL 10/S-400. LAYOUT WALLS PER DIMENSIONS ON ARCHITECTURAL DRAWINGS.

13. PROVIDE CONTROL/CONTRACTION JOINTS IN SLABS ON GRADE (REF. THE TYPICAL DETAILS ON SHEET S400). ALL JOINTS IN SLABS TO RECEIVE THIN OR THICK-SET TERRAZZO, CERAMIC OR PORCELAIN TILE, VINYL-COMPOSITION TILE (VCT) OR VINYL SHEET GOODS, EPOXY OR SIMILAR THIN-FILM FINISH FLOORING SHALL BE CAREFULLY COORDINATED WITH THE FLOORING CONTRACTOR. THE CONTRACTOR SHALL SUBMIT SLAB JOINT LAYOUT TO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO PLACING SLABS.

14. PLAN LEGEND:

F.F.	DENOTES FINISH FLOOR
T/'X'	DENOTES TOP OF FTG., SLAB, PIER, ETC.
B/'X'	DENOTES BOTTOM OF FTG., ETC.
C.J.	DENOTES SLAB ON GRADE CONTROL/CONTRACTION JOINT
WF36 -2'-0"	DENOTES WALL FOOTING MARK & TOP OF FOOTING ELEVATION (SEE WALL FOOTING SCHEDULE)
	DENOTES PIPE PENETRATION THROUGH FOUNDATION WALL. COORDINATE EXACT LOCATION & INVERT ELEVATION w/ APPROPRIATE TRADE. LOWER BOTTOM OF FOOTING & PROVIDE SLEEVE THROUGH FOUNDATION WALL PER TYPICAL DETAIL ON S400.
S1	DENOTES NEW 4" CONC. SLAB w/ "FIBERFORCE 300" FIBERS @ 1.5 LB/C.Y. (OR EQUAL) & ES INTERNAL CURE ADMIXTURE @ 4 OZ/CWT & ES CATALYST SPRAYED ON BETWEEN 800-1,000 SF/GAL OVER 15-MIL VAPOR BARRIER OVER 6" COMPACTED GRANULAR FILL (NO. 53 STONE OR APPROVED EQUIVALENT). T/CONC. = 0'-0"
S2	DENOTES NEW 6" CONC. SLAB w/ 6x6 W2.9 x W2.9 W.W.F. & ES INTERNAL CURE ADMIXTURE @ 4 OZ/CWT & ES CATALYST SPRAYED ON BETWEEN 800-1,000 SF/GAL OVER 15-MIL VAPOR BARRIER OVER 6" COMPACTED GRANULAR FILL (NO. 53 STONE OR APPROVED EQUIVALENT). T/CONC. = 0'-0"
1'-6" x 1'-6" / 1'-6" x 1'-4"	DENOTES WALL FOOTING WITH STEPS, REF. TYP. DETAIL ON S400

WALL FOOTING SCHEDULE

FTG. MARK	FOOTING SIZE WIDTH	FOOTING SIZE DEPTH	FOOTING REINFORCING LONGITUDINAL	FOOTING REINFORCING TRANSVERSE
WF24	2'-0"	1'-0"	(2) #5 x CONTINUOUS	#4 x 1'-6" @ 96" O.C.
WF36	3'-0"	1'-2"	(4) #5 x CONTINUOUS	#4 x 2'-6" @ 96" O.C.

1. CENTER FOOTINGS BENEATH WALLS, U.N.O.

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#	Revision	Date
A1	ADDENDUM #1	01/05/2023
A2	ADDENDUM #2	01/12/2023
A3	ADDENDUM #3	1/31/2023

5640 N Illinois St
Indianapolis, IN 46208

KEY PLAN

The Riviera Club

THE RIVIERA CLUB EST. 1933

Aquatics Center

FOUNDATION PLAN

SF1A1

SF1A1 - FOUNDATION PLAN
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WOOD SHRINKAGE NOTES

The following is a list of recommendations to minimize potential issues related to wood shrinkage and veneer expansion (A portion of clay masonry veneer expansion is irreversible and a portion is seasonal. The majority of wood shrinkage will occur in the first 12-18 months of occupancy. The majority of irreversible clay masonry veneer expansion will occur in the first few weeks, but will continue at a lower rate for several years. Thermal movement is seasonal and variable depending on ambient temperature and sun exposure. The following is a list of recommendations to minimize potential issues related to wood shrinkage and veneer movement.

1. Refer to other notes and details to see estimated differential movement between wood framing and brick veneer. If not shown otherwise, a differential movement of 0.15" per floor shall be used for backing of light wood framing for up to 3 stories and 0.20" per floor shall be used for backing of light wood framing for up to 5 stories.

2. MEP System Considerations

   A. All plumbing pipe and electrical conduit joints and connections shall be flexible and allow for expansion/contraction to prevent a rigid assembly. The use of expansion or slip joints in vertical plumbing runs to allow for wood framing shrinkage is recommended. If not used, another means of mitigating the problem will be required.
   B. In lieu of or in addition to A above, provide oversized and vertically slotted holes at pipe horizontal penetration and notches. Refer to typical notching and cutting of stud wall detail for additional considerations on size limitations. Do not exceed the hole sizes allowed by the notes and details and the building code.
   C. Hangers and necessary rigid connections shall be adjusted prior to completion of construction or closing of wall/ ceiling assembly.
   D. Vent penetrations shall be provided with double flashing.
   E. All sheet metal vertical down spouts shall have intermediate slip joints.
   F. Roof drains shall be adjusted back to the roof finish sheathing elevation at the completion of construction and then shall be adjusted as required to maintain proper drainage.

3. Construction Tolerance Considerations

   A. All studs shall be cut level, square and tight to top and bottom plates to reduce any additional shortening of the building due to nesting.
   B. All wood structural panels on the walls shall have a relief gap at each floor level to reduce the potential for bulging.
   C. All floor sheathing shall have 1/8" gaps around all four sides at time of installation to allow for potential bulging.
   D. Temporary Expansion Joints in large buildings are required. Follow APA's Technical Note: Temporary Expansion Joints for Large Buildings U425.
   E. At stucco, EIFS and thin set veneer systems, provide horizontal expansion joints, and slip joints with appropriate flashing.
   F. At brick and stone veneers, provide veneer ties designed to accommodate differential movement.
   G. Refer to Architectural window and door head sill and jamb details; parapets; and horizontal material changes for specific horizontal gap requirements between materials.
   H. Delay placement of self-leveling gypsum underlayment/topping around stair and elevator towers until completion of construction.

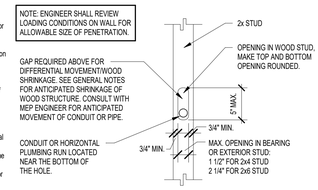
4. Material Storage and Protection

   A. All stored material shall remain covered from the elements to reduce and elevated off the ground to reduce the potential for an increase in moisture content.
   B. Do not allow water to pond on installed floor sheathing. Provide drain holes in the floor sheathing as required to relieve any water that might temporarily pond.

5. Post Occupancy Consideration

   A. Review roof drains every 3 months for the first 18 months of occupancy and then annually. Adjust as needed.
   B. Sealant Joints at exterior doors, windows and at changes in materials shall be reviewed and caulked as needed as wood shrinkage and veneer expansion occurs and original joint is distressed or fails.
   C. Remedial Self-Leveling work may be required around concrete or CMU stair and elevator towers as needed as wood shrinkage occurs.

NOTE: ENGINEER SHALL REVIEW LOADING CONDITIONS ON WALL FOR ALLOWABLE SIZE OF PENETRATION.



STUD HOLE SHRINKAGE DETAIL

WOOD FRAMING NOTES

1. For wood connections not specifically noted or detailed, follow the requirements of IBC 2012 Table 2304.9.1 or ESR 1539.
2. All nails are common nails unless noted otherwise. All nails shall be carefully driven and not overdriven. Submit all proposed fasteners for approval prior to construction. Installation of all fasteners shall meet the requirements of NDS and ISANTA guidelines, including those in ESR 1539, and Section 2303.6 of the IBC.
3. Refer to the Wall Schedules and/or Framing Plans for size, spacing, and species of wall studs and plates. If not shown otherwise, studs and plates are to be #1 or #2 Spruce-Pine-Fir (SPF) with stud spacing 16" o/c maximum. If not shown otherwise, bearing wall headers are to be #2 Southern Pine (SYP).
4. At the contractor's discretion, studs in non-load bearing interior walls may be premium stud grade spaced at 16" o.c. on all levels.
5. Fasten double (DBL) studs together with 0.131" x 3" nails at 6" o.c. unless noted otherwise. For more than two studs, fasten in the same way, nailing as each stud is added.
6. See the header schedule for all header sizes and materials. All headers in non-load-bearing interior walls are to be (2) 2x4 #2 SPF for openings up to 4'-0" and (2) 2x6 #2 SPF for openings over 4'-0". All headers in non-load-bearing walls to have (1) jack stud at each end.
7. Refer to the Shear Wall Schedule for sheathing, nailing, strap ties, hold downs, etc. required for wood-panel-sheathed and gypsum-wallboard-sheathed shear walls.
8. Use double top plates on all walls, including non-load-bearing walls, with all splices and corners lapped. At "T" intersections do not lap top plate of intersecting wall cutting the top plate of the continuous wall, rather use a metal tie plate as described in the exception to Section 2308.9.2.1 of the IBC.
9. Unless otherwise noted on plan or detail, anchor wall plates to foundations and/or supporting structure using Simpson Strong-Tie Titen HD Heavy Duty Screw Anchors, 5/8" diameter with minimum 5" embedment. Space anchors at 48" o.c. for load-bearing and non-load-bearing walls. Reduce spacing to 24" o.c. for all shear walls.
10. Coordinate final floor and roof framing including joist or truss layout & truss member configuration with Mechanical, Electrical, & Plumbing (MEP) drawings. Obtain additional MEP information as needed for complete coordination. Keep all mechanical chases free of framing. Do not locate joists or trusses at parallel plumbing walls.
11. Always bear floor and roof joists or trusses on available interior and exterior bearing walls. Do not clear-span framing disregarding an available bearing wall where such a bearing wall is identified.
12. Where floor trusses are used, use a minimum of (2)4x2 vertical members in floor trusses at all bearings unless noted otherwise. One of these verticals may be under a ribbon board at the end of the truss where ribbon boards are allowed. Do not allow for, nor use ribbon boards at the ends of trusses where solid, continuous full-height blocking or continuous wood-sheathed knee walls are indicated to be used. Where ribbon boards are used with floor trusses they are to be 2x6 minimum.
13. Design roof joists or trusses to support the weight of snow drifting where it applies, as well as rooftop mechanical units, exhaust fans, access hatches, etc. Confirm weights & locations before final design and show the loads for these units/fixtures on the sealed drawings. The Contractor shall ensure the units are installed at their design locations.
14. Where framing supported by a joist or truss can cause uplift on that joist or truss (such as at cantilevered balcony framing) the designer shall consider a load case that maximizes the uplift load in combination with no live load applied to the joist or truss supporting the uplift.
15. All exposed framing to be pressure preservative treated wood (PPT) as described in the Specifications. All PPT wood to be kiln dried after treatment (KDAT). Hardware used with PPT wood to be hot-dip galvanized or stainless steel.
16. All hardware to be by Simpson Strong-Tie or approved equal. Where hardware is not specifically designated, submit proposed hardware for approval. Where more than one type of fastener or fastener pattern is allowed by the hardware manufacturer, hardware fasteners are to be of the type, size, and quantity to maximize the load capacity of the hardware in the specific application shown on these plans, unless noted otherwise.
17. Where a wood-framed wall backs up a non-structural masonry veneer, ties must be fastened to the wood framing members using screws meeting the requirements of the tie manufacturer. Where the tie manufacturer allows the use of nails, ring shank nails must be used. Smooth shank nails may never be used to attach masonry ties to wood framing.
18. Reference the Architectural Plans for layout of all walls, openings, wall types, etc. Verify all dimensions prior to design of wall panels & immediately notify the Architect and Engineer of any discrepancies.
19. Where a Specialty Structural Engineer designs floor and/or roof framing (such as trusses or I-joists), the floor and/or roof designer shall provide the Wall Panel Designer the loads/reactions and locations of all girder or beam bearing points. The Wall Panel Designer shall specify and the Wall Panel Manufacturer shall install sufficient columns/studs to support all such loads from the girder or beam bearing location down to the supporting foundation or podium framing. The Contractor shall ensure the presence of such columns/studs. Similarly, where walls are field-framed, the Framing Contractor shall install the columns/studs for support of girders and beams. As a minimum, the number of studs shown on the plans shall be used, with a minimum of (2) 2x6 or (3) 2x4 studs.
20. At bearing walls, blocking must be added in the floor system to create continuity of all shear wall chord studs, posts and columns, jack/king studs at headers, etc. Such blocking shall be part of the sheathed shear blocking panels, or knee walls where they are used. Where there are wood walls below, these studs, columns, posts, etc. must be present in those walls as well creating a continuous load path to structural steel, the foundation, or other identified adequate support.
21. Where decks or balconies are wood-framed, if the railing relies on a connection to the wood balcony beams or rim joists for stability and load resistance, then the railing designer shall check torsion and other effects on the edge beams or joists and their connections.

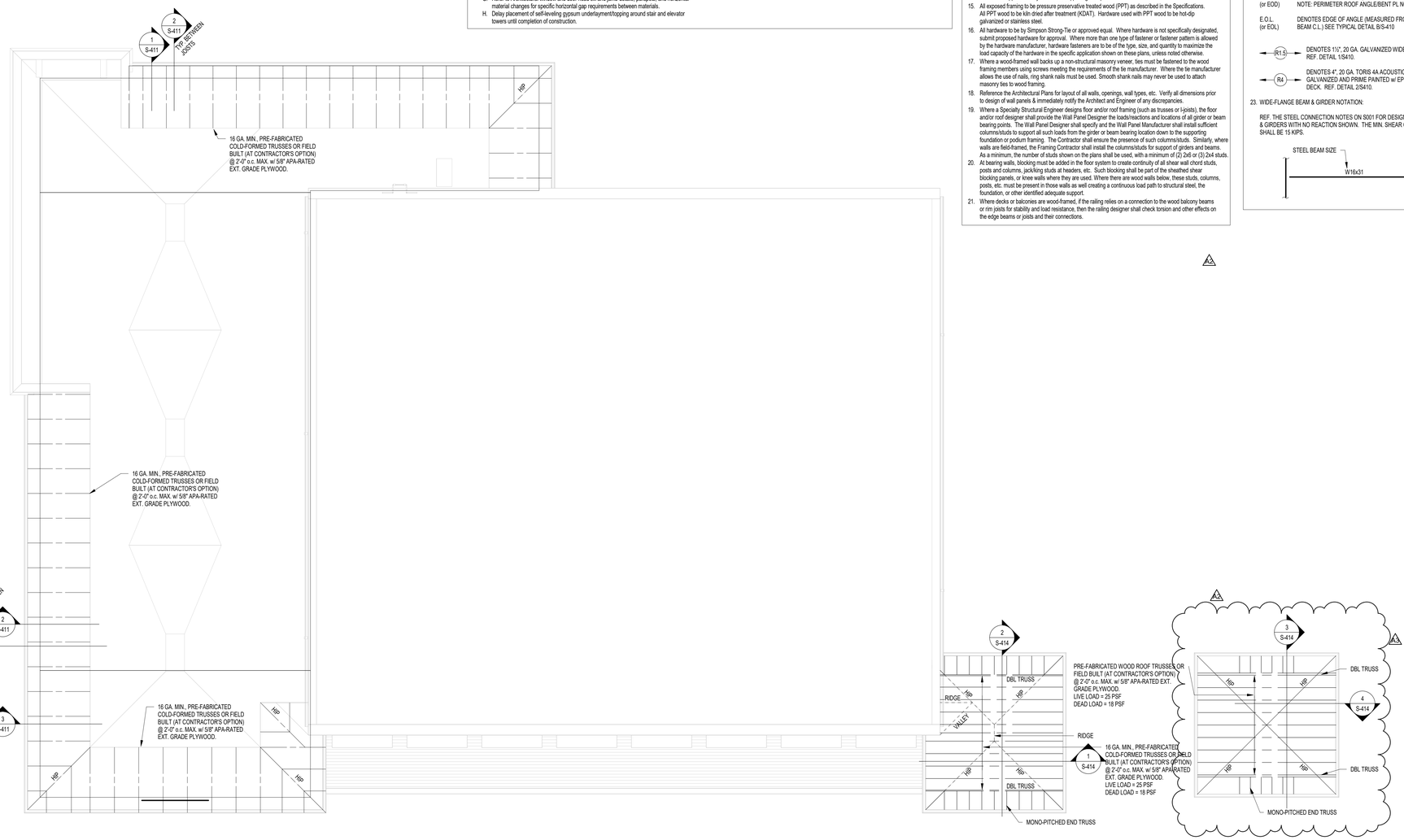
FRAMING PLAN NOTES

1. REF. S-600 FOR STRUCTURAL NOTES, DESIGN DATA, SCHEDULES & LEGENDS.
2. REF. THE S-410 SERIES FOR TYPICAL FRAMING AND MASONRY DETAILS.
3. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED
4. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FIN. FLOOR ELEVATION +0'-0". COORD. USGS ELEVATION WITH CIVIL DWGS.
5. SEE FOUNDATION PLANS FOR SIZES OF STEEL COLUMNS SUPPORTED ON FOUNDATIONS.
6. INSTALL CONTINUOUS ANGLES AT ALL PERIMETER ROOF EDGES. SEE DETAIL 2/S-410 FOR ATTACHEMENT TO BEAM AND FOR ALL CONDITIONS NO SPECIFICALLY DEFINED IN FRAMING SECTIONS.
7. ALL WALLS SHALL BE LAID OUT FROM THE ARCHITECTURAL DRAWINGS.
8. REF. ARCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
9. COORDINATE EXACT SIZE & LOCATION OF ANY MECHANICAL OPENINGS IN FLOOR SLAB, ROOF DECK, OR WALLS WITH THE MEP CONTRACTOR(S). LOCATION & SIZE OF ALL DUCT OPENINGS, GRILLES, ETC. SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
10. ALL ELEVATIONS SHOWN ON PLAN INDICATE TOP OF STEEL BEAM UNLESS NOTED OTHERWISE.
11. PROVIDE FRAMES AT ALL ROOF DRAINS, ROOF HATCHES & OTHER ROOF OPENINGS PER TYPICAL DETAILS ON S-410. COORD. EXACT NUMBER, LOCATIONS & DIMENSIONS WITH THE APPROPRIATE CONTRACTORS & THE ARCH. & MEP DWGS.
12. PROVIDE CMU REINFORCING AS NOTED ON PLANS. IF NOT SHOWN ON PLANS OR DETAILS, MINIMUM CMU WALL REINFORCING TO BE #5 VERTS @ 48" O.C. PROVIDE OPEN-CORE BOND BEAMS AT TOPS OF WALLS, AT CHANGES IN CMU THICKNESS, AND WHERE INDICATED ON PLANS & SECTIONS (10'-0" O.C. MAX VERTICAL SPACING). PROVIDE 1/2 OF INTERRUPTED VERTICALS AT JAMBS OF OPENINGS AND PROVIDE ADDITIONAL VERT'S. AT ENDS OF WALLS.
13. ALL MASONRY BOND BEAMS, OTHER THAN BOND BEAM LINTELS OVER OPENINGS, SHALL BE "OPEN-CORE" BOND BEAMS TO ALLOW VERTICAL REINFORCING TO PASS THROUGH, UNLESS NOTED OTHERWISE.
14. REF. ARCH. DWGS. FOR MASONRY CONTROL & EXPANSION JOINT LOCATIONS.
15. ALL HORIZONTAL AND DIAGONAL BRIDGING FOR STEEL JOISTS SHALL BE DESIGNED, LOCATED & PROVIDED BY THE JOIST SUPPLIER PER SJI SPECIFICATIONS.
16. PLAN LEGEND:

F.F.	DENOTES FIN. FLOOR
T/'X'	DENOTES TOP OF STEEL, SLAB, ETC.
B/'X'	DENOTES BOTTOM OF LINTEL, ETC.
E.O.D. (or EOD)	DENOTES EDGE OF DECK (MEASURED FROM BEAM C.L.) NOTE: PERIMETER ROOF ANGLE/BENT PL NOT REQUIRED
E.O.L. (or EOL)	DENOTES EDGE OF ANGLE (MEASURED FROM BEAM C.L.) SEE TYPICAL DETAIL B/S-410
R1.5	DENOTES 1½", 20 GA. GALVANIZED WIDE RIB STEEL ROOF DECK REF. DETAIL 1/S410.
R4	DENOTES 4", 20 GA. TORIS 4A ACOUSTIC ROOF DECK BY EPIC METALS GALVANIZED AND PRIME PAINTED w/ EPIC'S NATACOAT SYSTEM. DECK. REF. DETAIL 2/S410.

23. WIDE-FLANGE BEAM & GIRDER NOTATION:

REF. THE STEEL CONNECTION NOTES ON S001 FOR DESIGN OF CONNECTIONS AT BEAMS & GIRDERS WITH NO REACTION SHOWN. THE MIN. SHEAR CONNECTION DESIGN LOAD SHALL BE 15 KIPS.



1 MANSARD ROOF FRAMING
1/8" = 1'-0"

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A2	ADDENDUM #2	01/12/2023
A3	ADDENDUM #3	1/31/2023

5640 N Illinois St
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KEY PLAN

N

The Riviera Club

THE RIVIERA CLUB EST. 1933

Aquatics Center

MANSARD FRAMING PLAN

SF1AM

SF1AM_MANSARD FRAMING PLAN
2021-178.RVI_The Riviera Club_Aquatics Center_
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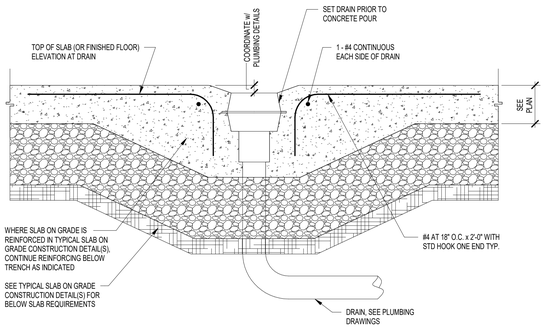
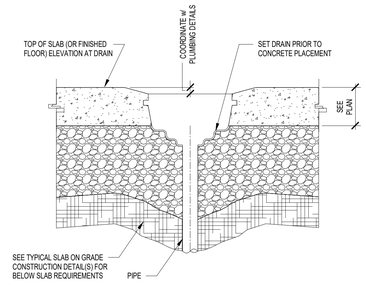


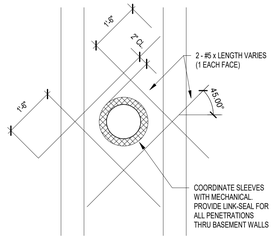
TYPICAL FLOOR TRENCH DRAIN



TYPICAL FLOOR DRAIN

11 TYPICAL FLOOR AND TRENCH DRAIN
3/4" = 1'-0"

NOTE:
WHERE VERTICAL REINFORCING IS INTERRUPTED BY THE OPENING, HALF OF THE INTERRUPTED STEEL SHALL BE ADDED EACH SIDE OF THE OPENING. USE FULL LENGTH BARS. IF BARS CANNOT BE PLACED AS DETAILED, REPLACE THE 1'-6" EXTENSION WITH 6" AND A STANDARD HOOK.



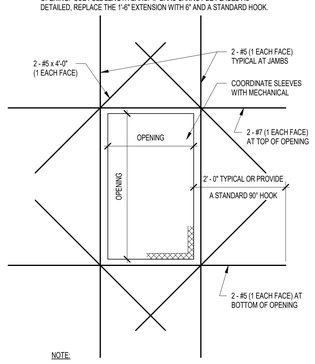
NOTE:
COORDINATE FINAL LOCATION OF PIPE PENETRATIONS WITH MECHANICAL CONTRACTOR BEFORE INSTALLATION OF THE REINFORCING.

THIS DETAIL APPLIES TO ALL ROUND AND ELLIPTICAL OPENINGS IN CONCRETE WALLS, UNLESS OTHERWISE NOTED ON THE PLANS.

10 C.I.P. WALL ROUND OPENING
3/4" = 1'-0"

NOTE:

WHERE VERTICAL REINFORCING IS INTERRUPTED BY THE OPENING, HALF OF THE INTERRUPTED STEEL SHALL BE ADDED EACH SIDE OF THE OPENING. USE FULL LENGTH BARS. IF BARS CANNOT BE PLACED AS DETAILED, REPLACE THE 1'-6" EXTENSION WITH 6" AND A STANDARD HOOK.

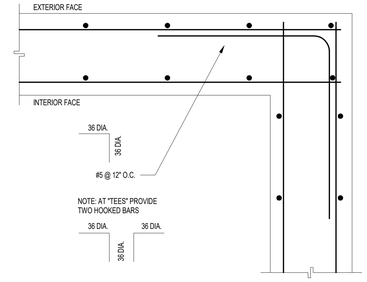


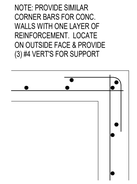
NOTE:

COORDINATE FINAL LOCATION OF MECHANICAL PENETRATIONS WITH MECHANICAL CONTRACTOR BEFORE INSTALLATION OF THE REINFORCING.

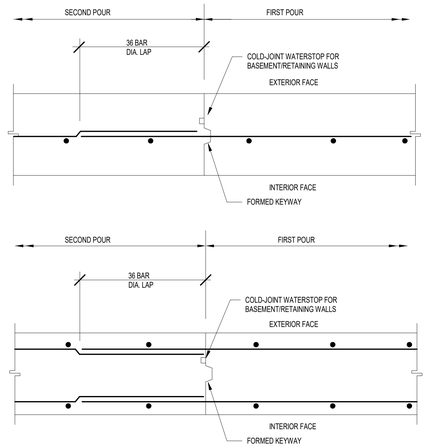
THIS DETAIL APPLIES TO ALL SQUARE AND RECTANGULAR OPENINGS IN CONCRETE WALLS UNLESS OTHERWISE NOTED ON THE PLANS.

9 C.I.P. WALL RECTANGULAR OPENING
3/4" = 1'-0"



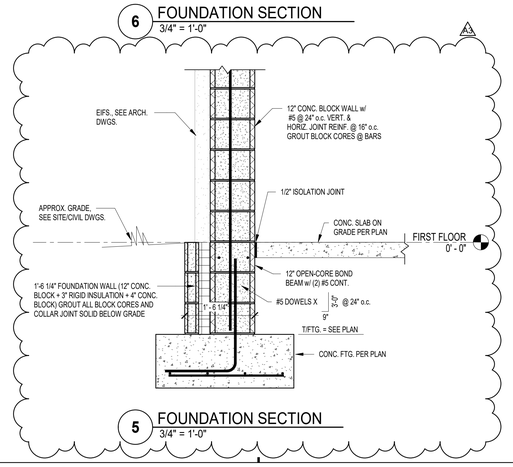


8 C.I.P. WALL CORNER REINFORCING
1" = 1'-0"

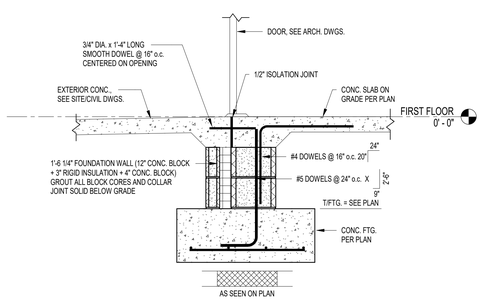


7 C.I.P. WALL CONSTRUCTION JOINTS
1" = 1'-0"

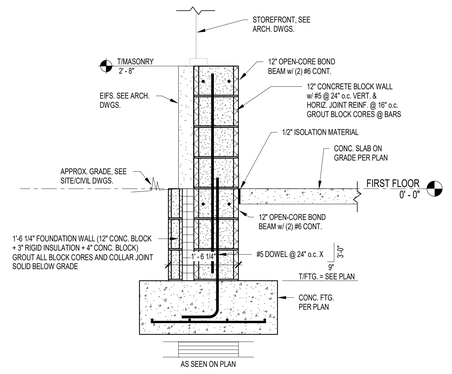
6 FOUNDATION SECTION
3/4" = 1'-0"



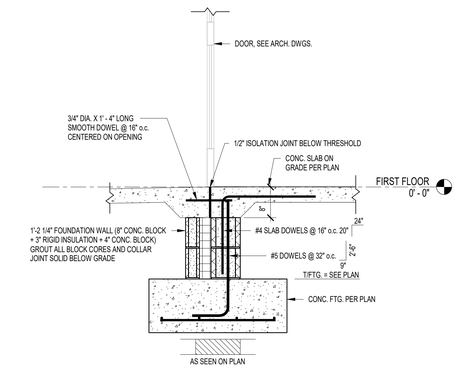
5 FOUNDATION SECTION
3/4" = 1'-0"



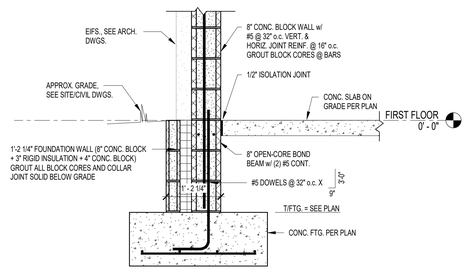
4 FOUNDATION SECTION
3/4" = 1'-0"



3 FOUNDATION SECTION
3/4" = 1'-0"



2 FOUNDATION SECTION
3/4" = 1'-0"



1 FOUNDATION SECTION
3/4" = 1'-0"

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#	Revision	Date
A3	ADDENDUM #3	1/31/2023

5640 N Illinois St
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KEY PLAN

The Riviera Club

THE RIVIERA CLUB EST. 1933

Aquatics Center

FOUNDATION SECTIONS & DETAILS

S-401

S-401 - FOUNDATION SECTIONS & DETAILS
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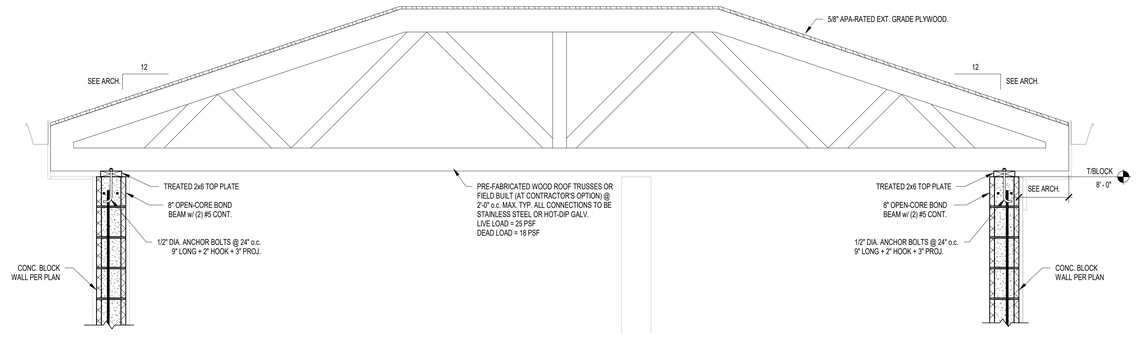
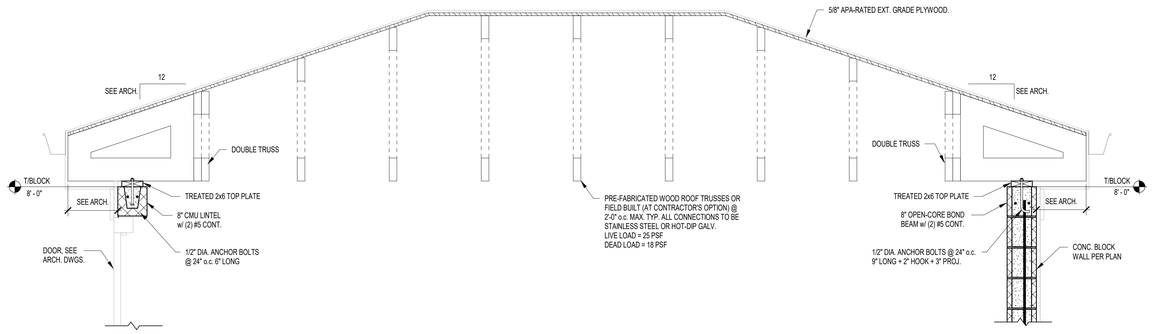


4 FRAMING SECTION
3/4" = 1'-0"



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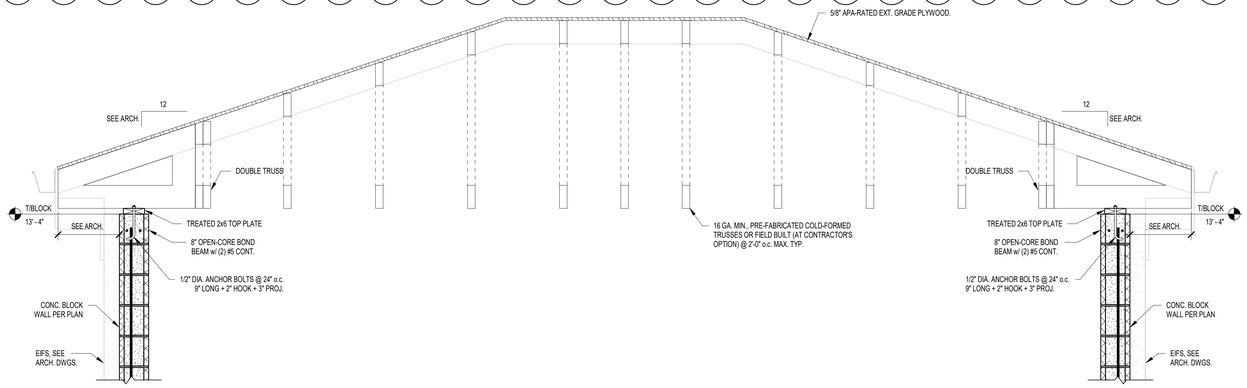
3/4" = 1'-0"



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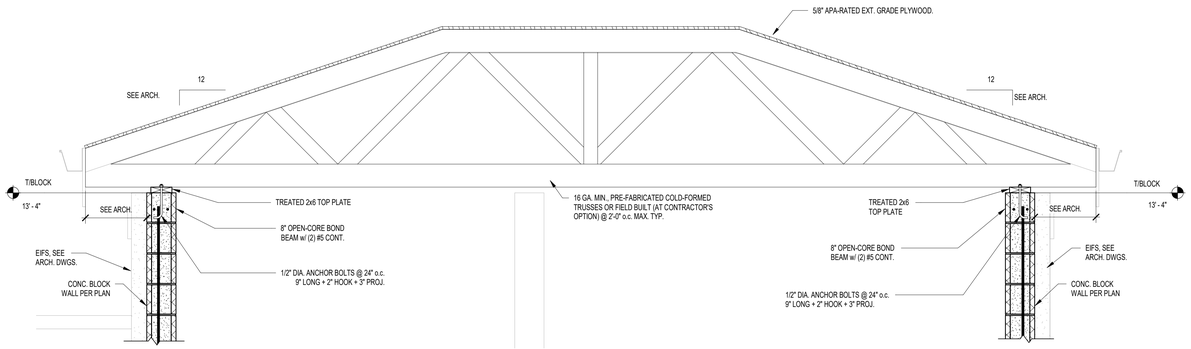
3/4" = 1'-0"



1 FRAMING SECTION
3/4" = 1'-0"

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Project No. 2021-178.RVI
Project Date 12.05.2022
Produced JMS RMD

ROBERT M. DEE
REGISTERED
No. 10100205
STATE OF INDIANA
PROFESSIONAL ENGINEER

#	Revision	Date
A2	ADDENDUM #2	01/12/2023
A3	ADDENDUM #3	1/31/2023

5640 N Illinois St
Indianapolis, IN 46208

KEY PLAN

N

The Riviera Club

THE RIVIERA CLUB
EST. 1933

Aquatics Center

FRAMING SECTIONS & DETAILS

A3 S-414

S-414_FRAMING SECTIONS & DETAILS
2021-178.RVI_The Riviera Club_Aquatics Center_
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General Roof Plan Notes

A. Where utilized, tapered insulation shall be installed to achieve positive drainage with a minimum resultant slope of 1/4" per foot, unless noted otherwise.

B. Low slope roof areas shall have a minimum of 4" rigid insulation over metal roof deck. Saddles, crickets, and slope portions of flat roof deck shall be formed by tapered insulation. Areas where tapered insulation is anticipated have been indicated, but shall not be considered all inclusive. It is Contractor's responsibility to provide sloped surfaces to achieve proper drainage.

C. Roof penetrations and equipment shown shall not be considered all inclusive. Coordinate with Mechanical, Plumbing and Electrical Documents to confirm penetrations and equipment locations. Flash all roof penetrations in accordance with roofing manufacturer's recommendations. Provide crickets to allow for proper drainage around units.

D. Roof walkway pads or blocks shall be installed in accordance with roofing manufacturer's recommendation where indicated and around entire perimeter of rooftop equipment.

ROOF PLAN NOTES

#	Note
1	077100 - 8" METAL GUTTER
2	072419 - EIFS CORNICE
3	077100 - MANUFACTURED METAL COPING.
4	077100 - ALUMINUM DOWNSPOUT, 4X6.
5	107313 - AWNING
6	PERGOLA
7	07 72 00 - ROOF ACCESS HATCH, 30"X54", WITH SAFETY RAILING. COORDINATE OPENING WITH S-SERIES DRAWINGS.
8	ROOF AND OVERFLOW DRAIN. REFER TO P-SERIES DRAWINGS.
9	ROOFTOP EQUIPMENT. REFER TO MPET-SERIES DRAWINGS.
10	055000 - ROOF ACCESS LADDER. PROVIDE ROOF WALKWAY PADS AT TOP & BOTTOM.

General Plan Notes

A. All dimensions shown are to face of stud or masonry, unless noted otherwise. Dimensions designated as "CLR or "clear" indicate a clear dimension from face of finish to face of finish. Dimensions of exterior walls are to outside edge of foundation.

B. All openings for Mechanical, Plumbing, Fire Protection and Electrical shall be fire stopped at each floor penetration.

C. Provide bracing and blocking as required in walls supporting casework, tackboards, markerboards, and restroom accessories.

D. All door frames are located 4" from adjacent wall, unless noted otherwise.

E. All exposed outside corners of CMU shall be bullnosed.

F. Seal all joints between dissimilar materials.

G. All gypsum wallboard is 5/8" Type "X", unless noted otherwise.

H. Where new floors meet existing floors, a smooth, straight, and flush transition shall be constructed. Verify in field existing floor elevations and conditions where a new floor shall be constructed adjacent. Trim and patch existing floor as required to achieve desired transition.

I. All exterior windows are Type "XXX", unless noted otherwise.

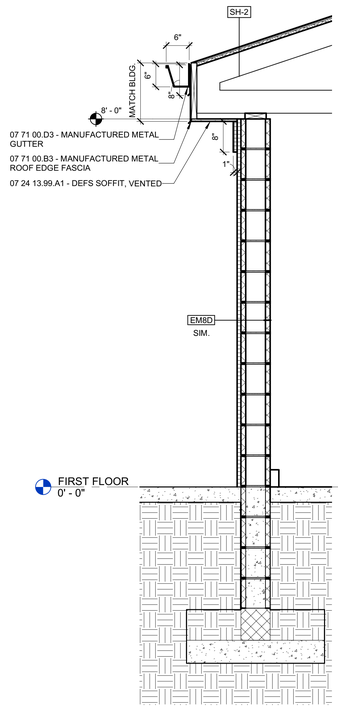
J. All interior walls are Type "M8-D", unless noted otherwise.

K. Refer to C-Series drawings for base elevation height (0'-0") relative to USGS (United States Geological Survey) data.

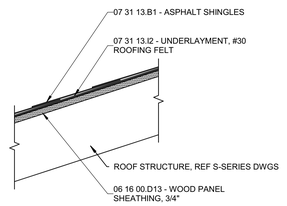
L. Hatching within walls shown in plans and sections indicates new construction.

FLOOR PLAN NOTES

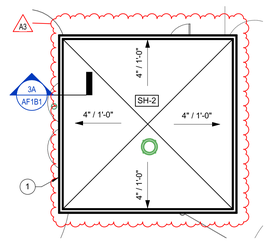
#	Note
1	OWNER PROVIDED WASHER & DRYER.
2	ARCHED INSET IN EIFS, 1"
3	07 71 00 - ALUMINUM DOWNSPOUT, 4X6. REFER TO C-SERIES DWGS. FOR BOOT CONNECTION.
4	PLASTIC LOCKERS, REFER TO SHEET A-401.
5	FIREMAN'S EMERGENCY KEY BOX
6	08 71 00 - ADA ACTUATOR, PEDESTAL MOUNTED. COORDINATE LOCATION W/ARCHITECT.
7	08 71 00 - ADA ACTUATOR, WALL MOUNTED. COORDINATE LOCATION W/ARCHITECT.
8	REFER TO AQ-SERIES DRAWINGS FOR POOL TANK AND EQUIPMENT INFORMATION.
9	05 50 00 - ROOF ACCESS LADDER
10	RECEPTION DESK. REFER TO I-SERIES DRAWINGS
11	05 52 13 - RAILING TYPE A. REFER TO SHEET A-400.
12	STAINLESS STEEL LADDER
13	SLOPED FLOOR SLAB, 1/8" PER 1'-0".
14	CENTER DOOR OPENING ON ELEVATION.
15	233713 - HEAVY DUTY LINEAR BAR GRILLE MANDREL
16	PROVIDE EXPOY SEALER ON ALL SURFACES INSIDE THE SURGE TANK AND PUMP PIT.
17	FLOOR HATCH AND LADDER. REFER TO AQ-SERIES DRAWINGS.
18	REFER TO ELEVATIONS AND SECTIONS FOR UPPER WINDOWS (W3).
19	104413 - FIRE EXTINGUISHER CABINET.



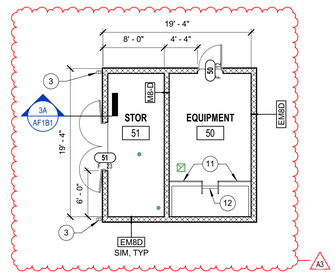
3A WALL SECTION
3/4" = 1'-0"



2B ROOF TYPE - SH-2
1 1/2" = 1'-0"



2A OVERALL ROOF PLAN - EQUIPMENT
1/8" = 1'-0"



1A FIRST FLOOR PLAN - EQUIPMENT BUILDING
1/8" = 1'-0"

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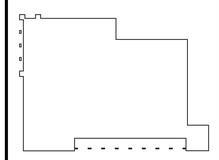
Project No. 2021-178.RVI
Project Date 12.05.2022
Produced BMF

SARAH KATHLEEN HEMPSTEAD REGISTERED No. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A2	ADDENDUM 2	01.12.2023
A3	ADDENDUM 3	01.31.2023

5640 N Illinois St
Indianapolis, IN 46208



KEY PLAN

The Riviera Club

THE RIVIERA CLUB
EST. 1933

Aquatics Center

OUTDOOR EQUIPMENT BUILDING (ALT)

A2 AF1B1

AF1B1 - OUTDOOR EQUIPMENT BUILDING (ALT)
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DOOR & FRAME SCHEDULE

MARK	DOOR PANEL TYPE	QTY	MATL	GLAZ	SIZE H	SIZE W	SIZE TH	FRAME MARK	FRAME MATL	FRAME GLAZ	LABEL	HDWR SET	NOTES	MARK
02.1	DG	1	AL	TG	7' - 0"	3' - 0"	0' - 1 3/4"	SF5	AL	TG		16	1	02.1
02.2	DG	1	AL	TG	7' - 0"	3' - 6"	0' - 1 3/4"	SF4	AL	TG		17	1	02.2
03.1	DG	2	AL	IG	7' - 0"	6' - 0"	0' - 1 3/4"	SF1	AL	IG		22	1	03.1
03.2	DG	1	AL	IG	7' - 0"	3' - 0"	0' - 1 3/4"	SF1	AL	IG		19		03.2
03.3	F	1	HM	--	7' - 0"	2' - 4"	0' - 1 3/4"	F1	HM	--		08		03.3
03.4	DG	2	AL	TG	7' - 0"	6' - 0"	0' - 1 3/4"	SF3	AL	TG		01	1	03.4
04.1	F	2	HM	--	7' - 0"	6' - 0"	0' - 1 3/4"	F1	HM	--		23		04.1
04.2	F	1	HM	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		18		04.2
06	F	1	HM	--	7' - 0"	4' - 0"	0' - 1 3/4"	F1	HM	--		10		06
07	F	1	HM	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		02		07
08	F	1	HM	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		02		08
09	F	1	HM	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		02		09
10	F	1	HM	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		02		10
11.1	DG	2	AL	IG	7' - 0"	6' - 0"	0' - 1 3/4"	F1	AL	--		21	1	11.1
11.2	DG	1	AL	TG	7' - 0"	3' - 0"	0' - 1 3/4"	SF5	AL	TG		16	1	11.2
11.3	DG	1	AL	TG	7' - 0"	3' - 0"	0' - 1 3/4"	SF4	AL	TG		17	1	11.3
12	F	1	HM	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		05	1	12
13	F	1	HM	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		05	1	13
14	F	1	HM	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		06		14
15	F	1	FRP	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	FRP	--		07		15
17.1	DG	1	AL	IG	7' - 0"	3' - 0"	0' - 1 3/4"	SF1	AL	IG		20		17.1
17.2	DG	1	AL	IG	7' - 0"	3' - 0"	0' - 1 3/4"	SF1 A3	AL	IG		20		17.2
17.3	DG	1	AL	IG	7' - 0"	3' - 0"	0' - 1 3/4"	SF1	AL	IG		20		17.3
19	DG	1	AL	TG	7' - 0"	3' - 0"	0' - 1 3/4"	SF6	AL	TG		03		19
20	F	1	FRP	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	FRP	--		09		20
20.1	F	2	FRP	--	7' - 0"	6' - 0"	0' - 1 3/4"	F1	FRP	--		14		20.1
21.1	F	1	FRP	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	FRP	--		12		21.1
21.2	N	1	FRP	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	FRP	--		15		21.2
22	F	2	FRP	--	7' - 0"	6' - 0"	0' - 1 3/4"	F1	FRP	--		13		22
23	F	1	HM	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		04		23
24.1	F	1	HM	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		11		24.1
A2 50 A3	F	1	FRP	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1 A3	FRP	--		12		50
51	F	2	HM	--	7' - 0"	6' - 0"	0' - 1 3/4"	F1	HM	--		23		51

GENERAL NOTES

A. This Door Schedule(s) is furnished for whatever assistance it may afford the Contractor. Do not consider it as entirely inclusive. Carefully examine the Drawings (especially the Floor Plans) and the Specifications to determine the extent of door and frame quantities required (including interior borrowed lite or sidelite openings). Should any particular door, frame, or interior borrowed lite or sidelite shown on the Drawings be inadvertently omitted from this Schedule, supply same as required for similar openings.

B. The "QTY" column designates the number of leaves in the opening. The "Door Width" column designates the total width of all leaves. In multiple leaf conditions, the leaves shall equally divide the "Door Width" unless noted otherwise; however, the active leaf shall not be less than 3'-0" wide.

C. Door Type "X" denotes a frame with no door such as a borrowed lite, reference Frame Elevations.

D. An asterisk (*) in a dimension denotes a width that varies, reference plans, elevations, details and schedules.

E. Verify locksets with the Owner during submittals.

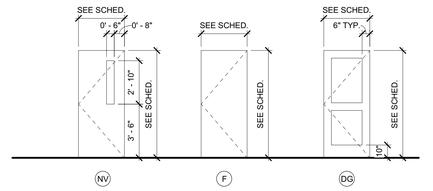
ABBREVIATIONS

AL Aluminum
HM Hollow Metal
ST Steel
WD Wood
TG Tempered Glazing
IG Insulated Glazing
LG Laminated Glazing
FG Frosted Glazing
SP Spandrel Panel

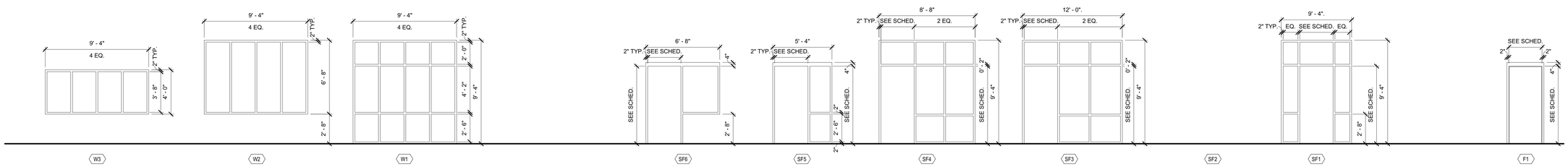
DOOR & FRAME SCHEDULE NOTES

See Door Schedule

1. Prepare door and frame for ADA operator
2. Prepare door and frame for Card Reader



5.4.602 - DOOR PANEL ELEVATIONS
1/4" = 1'-0"



5.4.603 - FRAME ELEVATIONS
1/4" = 1'-0"

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Project No. 2021-178.RVI
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Produced BMF TM

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NO.
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ARCHITECT

#	Revision	Date
A2	ADDENDUM 2	01.12.2023
A3	ADDENDUM 3	01.31.2023

5640 N Illinois St
Indianapolis, IN 46208

KEY PLAN

The Riviera Club

THE RIVIERA CLUB
EST. 1933

Aquatics Center

DOOR & FRAME SCHEDULE

A-600

A600_DOOR & FRAME SCHEDULE
2021-178.RVI_The Riviera Club_Aquatics Center
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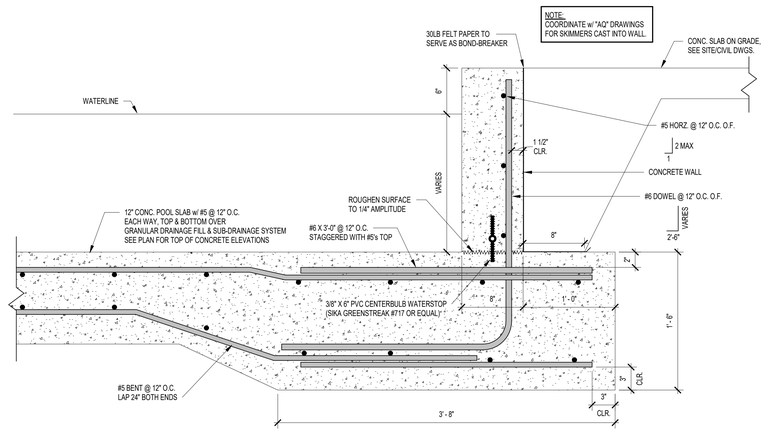
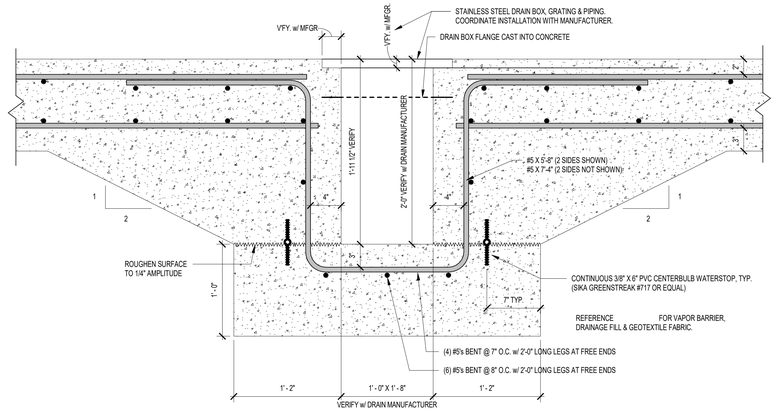
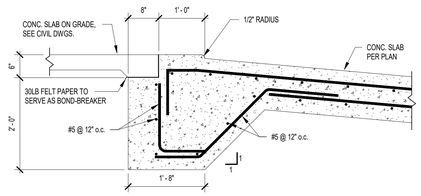


REFERENCE 2 / AQS101 FOR VAPOR BARRIER, EXTENTS OF DRAINAGE FILL, & GEOTEXTILE FABRIC INFO.

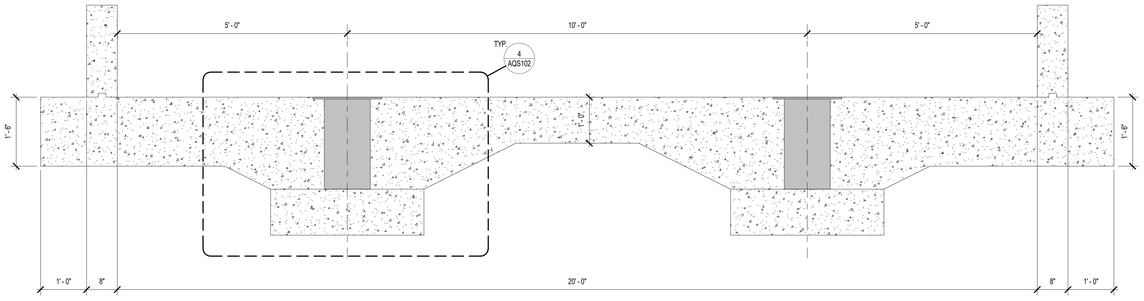
6 ZERO DEPTH POOL WALL SECTION
1 1/2" = 1'-0"



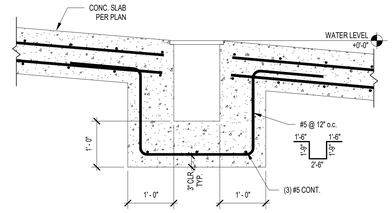
4 TYPICAL DRAIN DETAIL
1 1/2" = 1'-0"



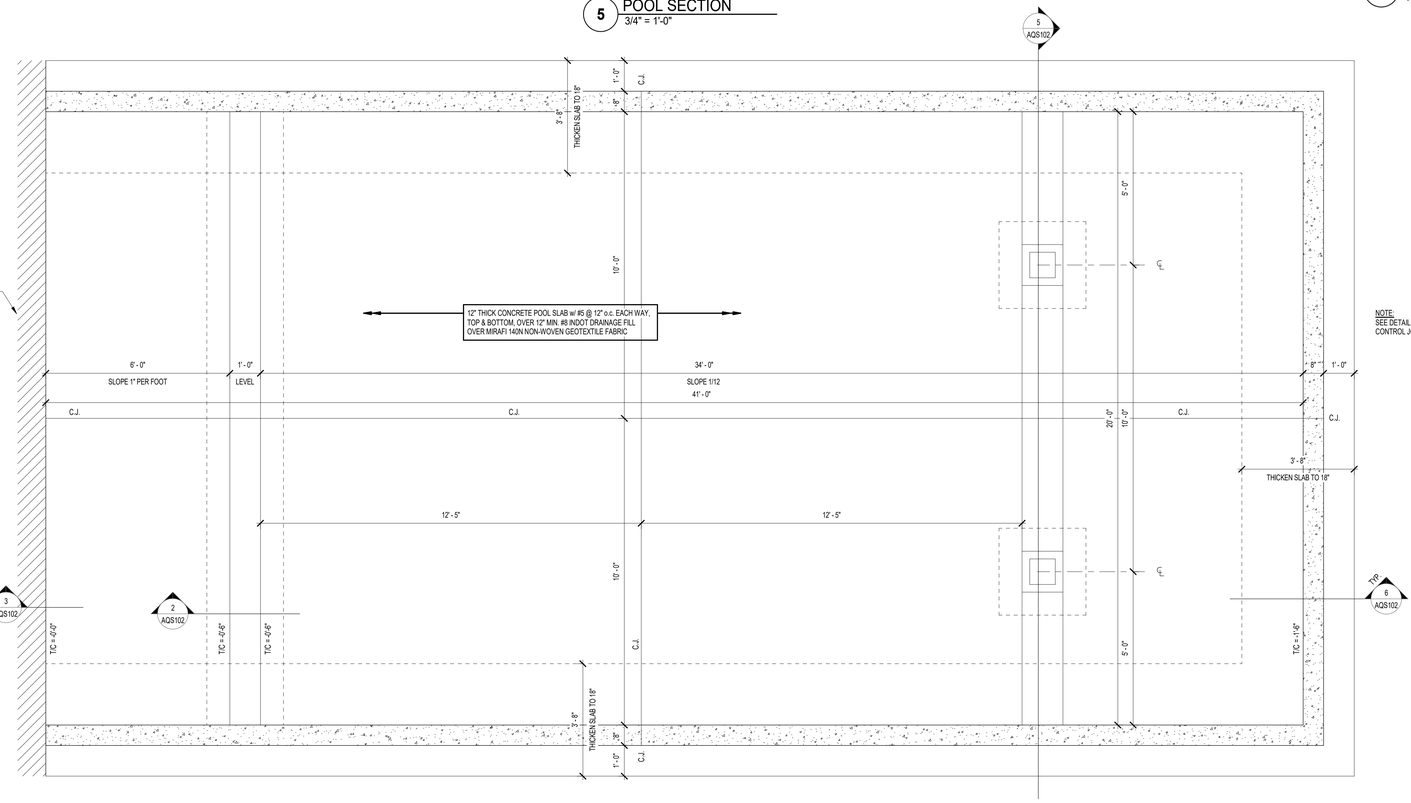
3 POOL SECTION
3/4" = 1'-0"



5 POOL SECTION
3/4" = 1'-0"



2 POOL SECTION
3/4" = 1'-0"



1 ZERO DEPTH POOL
1/2" = 1'-0"

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ROBERT M. DU
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No. 10100205
STATE OF INDIANA
PROFESSIONAL ENGINEER

#	Revision	Date
A3	ADDENDUM #3	01/31/2023

5640 N Illinois St
Indianapolis, IN 46208

KEY PLAN

The Riviera Club

THE RIVIERA CLUB
EST. 1933

Aquatics Center

OUTDOOR POOL AND SECTIONS

AQS102

VENTILATION SCHEDULE

Room	Design occupancy	Required minimum ventilation airflow			
	(People)	(cfm)	(cfm/person)	(cfm/ft²)	(ACH)
101 CHEM STOR	0.0	22.8	0.0	0.12	0.51
103 VEST	0.0	6.1	0.0	0.06	0.26
104 LIFEGAURD	4.2	31.1	7.4	0.18	0.79
105 MENS LOCKER	5.8	151.5	26.0	0.26	1.11
106 WOMENS LOCKER	5.9	152.5	26.0	0.26	1.11
107 VEST	0.0	12.9	0.0	0.06	0.26
108 SWIM LOCKER WOMEN	4.6	118.7	26.0	0.26	1.11
109 SWIM LOCKER MEN	3.5	91.1	26.0	0.26	1.11
110 LOBBY	160.9	868.8	5.4	0.81	4.86
111 FAM RR 31	0.0	0.0	0.0	0.00	0.00
112 FAM RR 30	0.0	0.0	0.0	0.00	0.00
116 LOBBY	68.2	368.3	5.4	0.81	3.47
115 ENTRY	0.0	4.2	0.0	0.06	0.26
114 FAM RR 37	0.0	0.0	0.0	0.00	0.00
113 FAM RR 4	0.0	0.0	0.0	0.00	0.00

GENERAL NOTES

A REFER TO SHEET M000 FOR GENERAL MECHANICAL NOTES, SYMBOLS AND ABBREVIATIONS.

B REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR FINAL LOCATIONS OF AIR OUTLETS AND INLETS. ADJUST BRANCH DUCTWORK AS REQUIRED.

C DUCT RUNOUTS TO TERMINAL UNITS SHALL BE TWO DIAMETERS LARGER THAN TERMINAL UNIT CONNECTION SIZE UNLESS NOTED OTHERWISE.

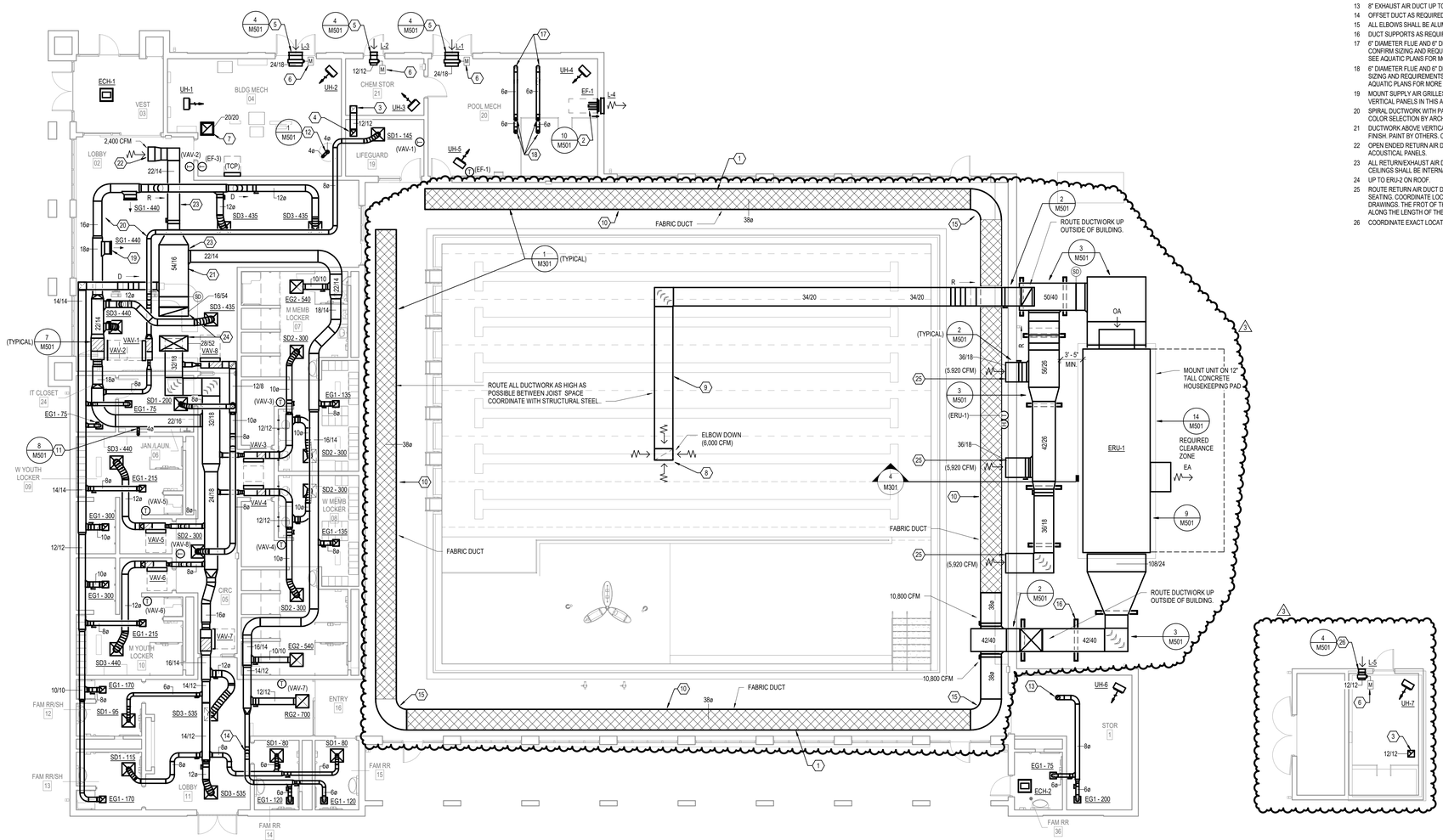
D CONTRACTOR SHALL PROVIDE ALL BALANCE DAMPERS AS REQUIRED TO PROVIDE A COMPLETE AND BALANCED SYSTEM.

E ALL DUCTWORK, DIFFUSERS AND GRILLES IN "WET AREAS" SHALL BE ALUMINUM CONSTRUCTION UNLESS NOTED OTHERWISE.

F ALL HANGERS, SUPPORTS AND MISCELLANEOUS ACCESSORIES IN POOL BUILDING AND POOL CHEMICAL ROOMS SHALL HAVE A CHLORINE RESISTANT COATING FOR USE IN INDOOR POOLS.

SHEET KEYNOTES

1 DIRECT A PORTION OF NOZZLES TOWARDS EXTERIOR WALLS AND WINDOWS.
2 SIDEWALL MECHANICAL ROOM VENTILATION FAN. MOUNT CENTERLINE OF FAN AT APPROXIMATELY 10'-0" AFF. COORDINATE WITH STRUCTRUAL, ARCHITECTURAL AND POOL EQUIPMENT DRAWINGS.
3 TERMINATE ALUMINUM DUCT WITH WIRE MESH SCREEN AT 18" AFF. PROVIDE CHLORINE RESISTANT COATING ON THE INSIDE AND OUTSIDE OF DUCTWORK AND ON ALL VOLUME DAMPERS AND MISCELLANEOUS ACCESSORIES.
4 OFFSET DUCT UP TO EF-4 ON ROOF. PROVIDE CHLORINE RESISTANT COATING ON THE INSIDE AND OUTSIDE OF DUCTWORK AND ON ALL VOLUME DAMPERS AND MISCELLANEOUS ACCESSORIES.
5 CENTER LOUVER ABOVE DOOR. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS.
6 INTERLOCK MOTORIZED DAMPER WITH ASSOCIATED EXHAUST FAN OPERATION. 120 V CONNECTION BY EC.
7 OPEN ENDED EXHAUST AIR DUCT WITH WIRE MESH SCREEN UP THROUGH ROOF TO EF-3. TERMINATE DUCT JUST BELOW ROOF DECK.
8 OPEN ENDED RETURN AIR DUCT. MOUNT SO OPENING IS FLUSH WITH BOTTOM OF JOISTS.
9 MOUNT RETURN AIR DUCT UP IN JOIST SPACE BETWEEN WEBBING. COORDINATE LOCATION WITH STRUCTURAL STEEL. PROVIDE CHLORINE RESISTANT COATING ON ALL MISCELLANEOUS ACCESSORIES.
10 MOUNT FABRIC DUCT UP IN JOIST SPACE BETWEEN WEBBING. COORDINATE LOCATION WITH STRUCTURAL STEEL.
11 4" DRYER VENT UP THROUGH ROOF. CONFIRM SIZE WITH DRYER MANUFACTURER.
12 4" FLUE AND 4" INTAKE FOR WATER HEATER. CPVC OR MANUFACTURER APPROVED VENT AND INTAKE UP THROUGH ROOF. TERMINATE WITH CONCENTRIC FLUE FITTING.
13 8" EXHAUST AIR DUCT UP TO EF-5 ON ROOF.
14 OFFSET DUCT AS REQUIRED.
15 ALL ELBOWS SHALL BE ALUMINUM RIGID DUCTWORK.
16 DUCT SUPPORTS AS REQUIRED, TYPICAL.
17 6" DIAMETER FLUE AND 6" DIAMETER INTAKE DOWN TO POOL HEATER. CONFIRM SIZING AND REQUIREMENTS WITH POOL HEATER MANUFACTURER. SEE AQUATIC PLANS FOR MORE INFORMATION.
18 6" DIAMETER FLUE AND 6" DIAMETER INTAKE UP THROUGH ROOF. CONFIRM SIZING AND REQUIREMENTS WITH POOL HEATER MANUFACTURER. SEE AQUATIC PLANS FOR MORE INFORMATION.
19 MOUNT SUPPLY AIR GRILLES OFF SIDE OF DUCT ABOVE THE ACOUSTICAL VERTICAL PANELS IN THIS AREA. TYPICAL.
20 SPIRAL DUCTWORK WITH PAINT GRIP FINISH. TO BE PAINTED BY OTHERS. COLOR SELECTION BY ARCHITECT.
21 DUCTWORK ABOVE VERTICAL ACOUSTICAL PANELS SHALL HAVE PAINT GRIP FINISH. PAINT BY OTHERS. COLOR SELECTION BY ARCHITECT.
22 OPEN ENDED RETURN AIR DUCT WITH WIRE MESH SCREEN ABOVE ACOUSTICAL PANELS.
23 ALL RETURN/EXHAUST AIR DUCT ABOVE EXPOSED ACOUSTICAL PANEL CEILINGS SHALL BE INTERNALLY LINED.
24 UP TO ERU-2 ON ROOF.
25 ROUTE RETURN AIR DUCT DOWN LOW TO BE STUB WITHIN BACK OF BENCH SEATING. COORDINATE LOCATIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. THE FROT OF THE BENCH WILL HAVE A RETURN AIR OPENING ALONG THE LENGTH OF THE BENCH TO ALLOW FOR LOW RETURN AIR PATH.
26 COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS.



1 FIRST FLOOR MECHANICAL PLAN
1/8" = 1'-0"

SCHMIDT ASSOCIATES
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Project No. 2021-178.RVI
Project Date 12.05.2022
Produced CME CME

JOYCE ELLEN JONES REGISTERED No. PE60920263 STATE OF INDIANA PROFESSIONAL ENGINEER

#	Revision	Date
	Addendum #1	01/05/2023
	Addendum #2	01/12/2023
	Addendum #3	01/31/2023

5640 N Illinois St
Indianapolis, IN 46208

KEY PLAN

The Riviera Club

Aquatics Center

FIRST FLOOR MECHANICAL PLAN

M101

M101 - FIRST FLOOR MECHANICAL PLAN
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GENERAL NOTES

A REFER TO SHEET M000 FOR GENERAL MECHANICAL NOTES, SYMBOLS AND ABBREVIATIONS.

B REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR FINAL LOCATIONS OF AIR OUTLETS AND INLETS. ADJUST BRANCH DUCTWORK AS REQUIRED.

C DUCT RUNOUTS TO TERMINAL UNITS SHALL BE TWO DIAMETERS LARGER THAN TERMINAL UNIT CONNECTION SIZE UNLESS NOTED OTHERWISE.

D CONTRACTOR SHALL PROVIDE ALL BALANCE DAMPERS AS REQUIRED TO PROVIDE A COMPLETE AND BALANCED SYSTEM.

E ALL DUCTWORK, DIFFUSERS AND GRILLES IN "WET AREAS" SHALL BE ALUMINUM CONSTRUCTION UNLESS NOTED OTHERWISE.

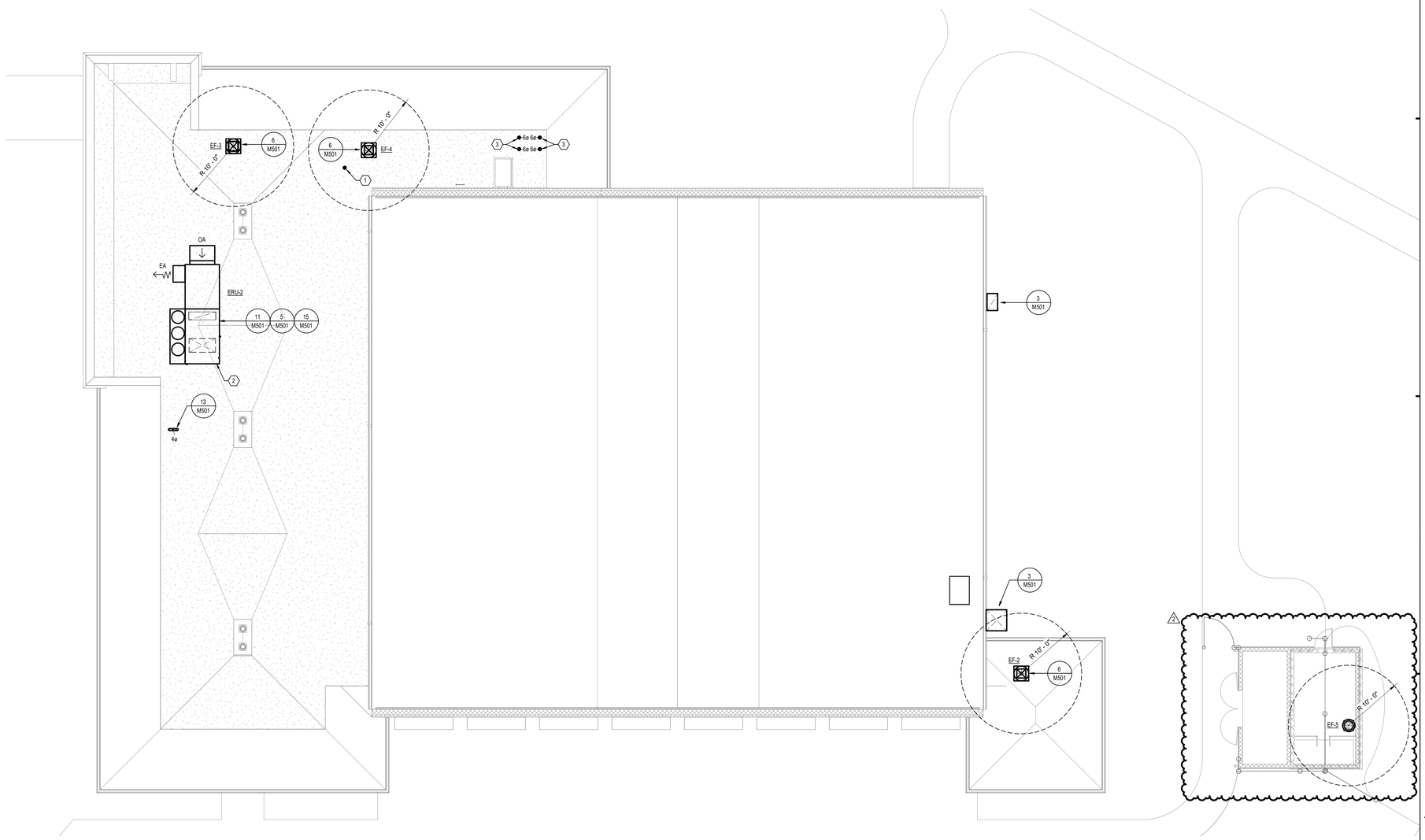
F ALL HANGERS, SUPPORTS AND MISCELLANEOUS ACCESSORIES IN POOL BUILDING AND POOL CHEMICAL ROOMS SHALL HAVE A CHLORINE RESISTANT COATING FOR USE IN INDOOR POOLS.

SHEET KEYNOTES

1 WATER HEATER FLUE/INTAKE.

2 MOUNT UNIT ON 18" ROOF CURB. COORDINATE EXACT LOCATION WITH STRUCTURAL DRAWINGS.

3 6" DIAMETER FLUE AND 6" DIAMETER INTAKE FROM POOL HEATER. TERMINATE INTAKE 1'-0" ABOVE ROOF WITH APPROVED INTAKE. TERMINATE FLUE AT 3'-0" ABOVE ROOF WITH APPROVED VENT CAP. COORDINATE WITH POOL HEATER MANUFACTURER FOR APPROVED TERMINATIONS. SEE AQUATIC SHEETS FOR MORE INFORMATION.



1 ROOF MECHANICAL PLAN
1/8" = 1'-0"

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	Addendum #2	01/12/2023
	Addendum #3	01/31/2023

5640 N Illinois St
Indianapolis, IN 46208

KEY PLAN

N

The Riviera Club

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ROOF MECHANICAL PLAN

M102

M102_ROOF MECHANICAL PLAN
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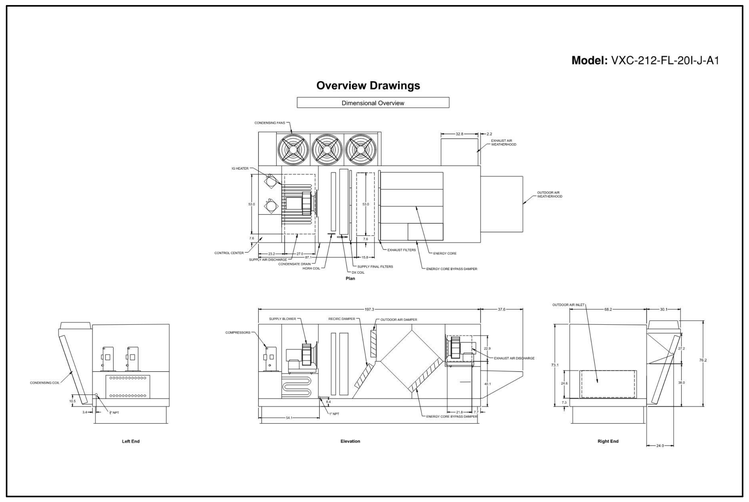
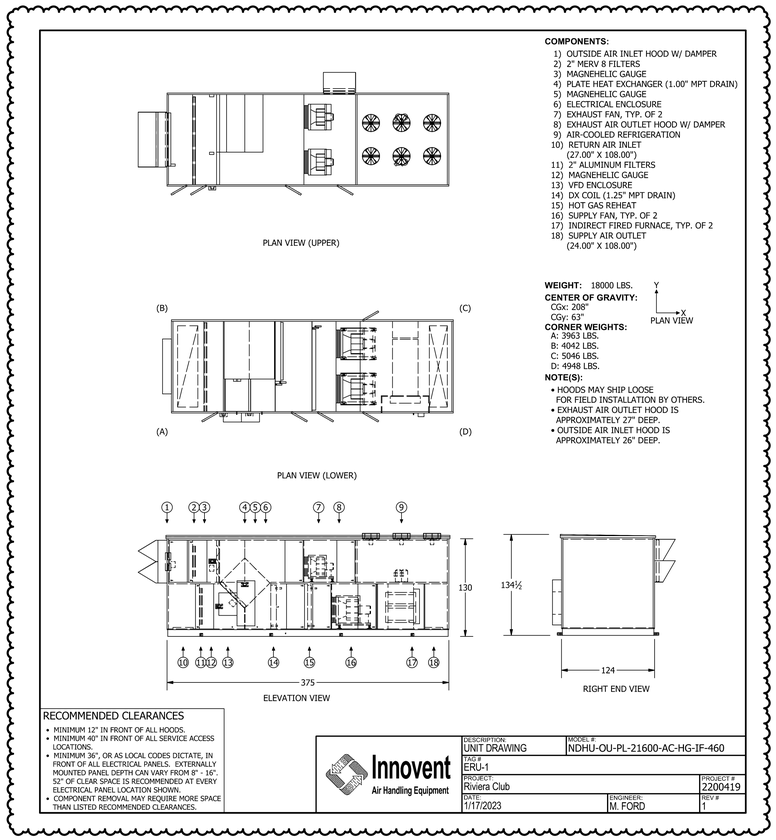
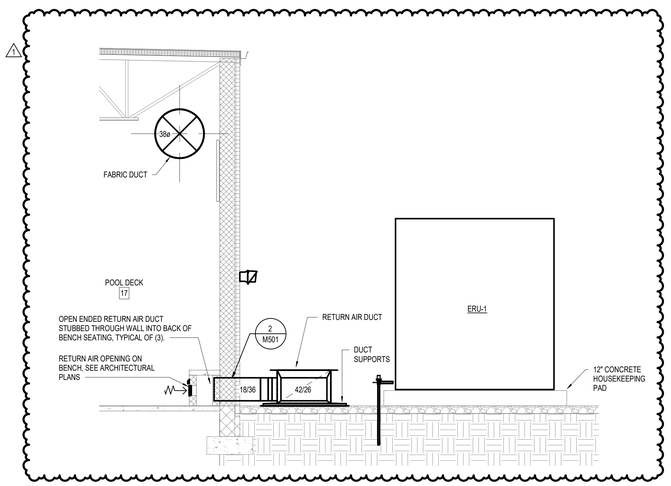


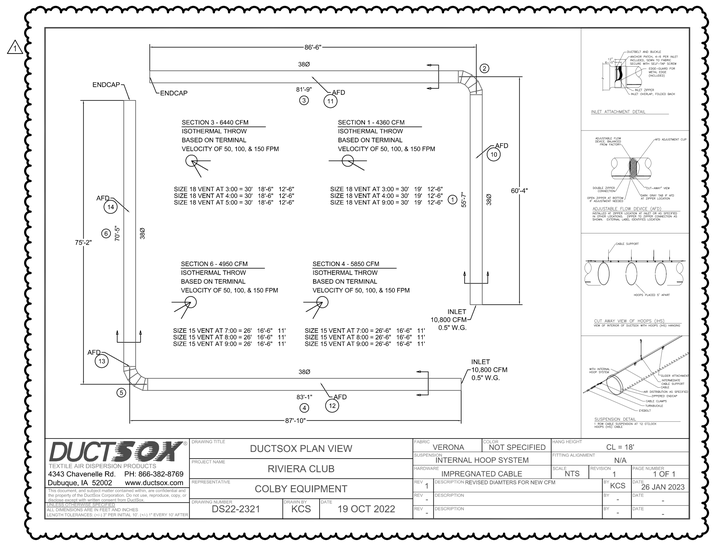
③ ERU-2 SECTION



② ERU-1 SECTION



④ POOL BENCH LOW RETURN AIR SECTION
1/4" = 1'-0"



① FABRIC DUCT DETAILS

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JOYCE ELLEN JONES
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No. PE60920263
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PROFESSIONAL ENGINEER

#	Revision	Date
	Addendum #3	01/31/2023

5640 N Illinois St
Indianapolis, IN 46208

KEY PLAN

The Riviera Club

Aquatics Center

MECHANICAL SECTIONS

M301

AIR TO AIR ENERGY RECOVERY UNIT SCHEDULE

UNIT ID	AIR CAPACITY: SUPPLY	AIR CAPACITY: MIN. OUTSIDE	AIR CAPACITY: EXHAUST	PLATE EXCHANGER	SUMMER DESIGN CONDITIONS: EAT	SUMMER DESIGN CONDITIONS: LAT	WINTER DESIGN CONDITIONS: EAT	WINTER DESIGN CONDITIONS: LAT	SUPPLY FAN DATA	SUPPLY FAN: SIZE	SUPPLY FAN: ESP	SUPPLY FAN: TOTAL	SUPPLY FAN: RPM	SUPPLY FAN: TOTAL	EXHAUST FAN DATA: TYPE	EXHAUST FAN: QTY	EXHAUST FAN: SIZE	EXHAUST FAN: ESP	EXHAUST FAN: TOTAL	EXHAUST FAN: RPM	EXHAUST FAN: HP	DX COOLING COIL DATA: TOTAL	DX COOLING COIL DATA: SENS	NATURAL GAS HEATING COIL DATA (QTY. 2): INPUT	NATURAL GAS HEATING COIL DATA (QTY. 2): MIN	HOT GAS REHEAT: CFM	HOT GAS REHEAT: EAT	HOT GAS REHEAT: LAT	HOT GAS REHEAT: EAT	HOT GAS REHEAT: LAT	FILTER DATA: MERV	FILTER DATA: TYPE	FILTER DATA: MERV	ELECTRICAL DATA: QTY	ELECTRICAL DATA: MOP	ELECTRICAL DATA: VOLTS	CABINET DIMENSIONS: PACKAGE	CABINET DIMENSIONS: HEIGHT	CABINET DIMENSIONS: WIDTH	CABINET DIMENSIONS: CENTERS	UNIT WEIGHT (LBS)	MANUFACTURER WITH MODEL NUMBER	NOTES
ERU-1	21600 CFM	14000 CFM	16160 CFM	H-1-50C-1950	87.6	78.2	85.4	77.6	-10	-10	47.9	32	PLENUM	2	27	2.00 in-wg	20.7	1800	30	PLENUM	2	22	1.25 in-wg	11.3	1800	15	1145.5	474.2	10.0	850.0	80	66.0 °F	95.2	21600	74.0 °F	66.0 °F	91.7	71 °F	414.00	PLEATED	8	10	245.2	460	3	11' - 2 1/2"	10' - 4"	31' - 3"	18000.00	INNOVENT NDHU-OU-PL-21600-AC-HG-IF-460	1, 2
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual

NOTES:
1. SEE ADDITIONAL SCHEDULE INFO BELOW.
2. MANUFACTURER PROVIDED AND MOUNTED VFD'S AS REQUIRED.

ERU-1 ADDITIONAL INFO

MODEL	ALTITUDE (Ft)
NDHU-OU-PL-21600-AC-HG-IF-460	0.00

OUTSIDE FILTER — OUTSIDE

CFM	TYPE	DEPTH (in)	FACE VEL. (FPM)	MERV	QTY	WIDTH (in)	HEIGHT (in)	CLEAN PD	TOTAL PD
14000	Pleated	2	420	8	10	24	20	0.24	0.24

PLATE HEAT EXCHANGER — SUPPLY & RETURN

	OUTSIDE AIR DATA				RETURN AIR DATA			
MODE	CFM	EAT (DB/WB)(°F)	LAT (DB/WB)(°F)	PD	CFM	EAT (DB/RH)(°F/%)	LAT (DB/RH)(°F/%)	PD
Cooling	14000	87.6/78.2	85.4/77.6	0.68	16160	84.0/60.0	85.9/56.3	0.86
Purge Heating	10800	-10.0/-10.9	47.9/32.0	0.36	12960	84.0/24.0	39.6/100.0	0.55
Heating	6800	-10.0/-10.9	61.2/39.5	0.19	8960	84.0/53.9	52.2/100.0	0.32
MODEL: H-1-50C-1950								

DX COIL — SUPPLY

CFM	FPM	EAT (DB/WB)(°F)	LAT (DB/WB)(°F)	MBH (T/S)	REF	CIRCUITS	SST (°F)	ROWS	FPI	PD
14000	491	85.4/77.6	54.7/54.7	1145.5/474.2	R-410A	2	42.5	6	12	0.84

HOT GAS REHEAT — SUPPLY

CFM	FPM	EDB/WB (°F)	LDB/WB (°F)	MBH	REF.	CIRCUITS	ROWS	FPI	PD
21600	554	74.0/66.0	91.7/71.4	414	R-410A	2	2	10	0.20

SUPPLY FAN — SUPPLY

QTY	CFM	CLASS	SIZE (in)	TYPE	TSP (\"WC)	BHP	MHP	RPM	MOTOR RPM	VFD Hz	MOTOR TYPE
2	10800	II	27	Plenum	4.43	10.4	15.0	1507	1800	51.7	TEFC
TOTAL:	21600	-	-	-	4.43	20.7	30.0	-	-	-	-

TSP CALCULATION

SA ESP (\"WC)	2.00	Outside Filter Clean PD (\"WC)	0.24	DX Coil (\"WC)	0.84
Casing Loss (\"WC)	0.30	Plate Heat Exchanger (\"WC)	0.68	Hot Gas Reheat (\"WC)	0.20

Indirect Fired Furnace (\"WC)	0.17		
TSP:	4.43	\"WC	

INDIRECT FIRED FURNACE — SUPPLY

CFM	EDB (°F)	LDB (°F)	MBH IN	MBH OUT	FUEL TYPE	GAS PRESSURE	PD
21600	66.0	95.2	850	680	NG	6-14\"WC	0.17

FURNACE#	MBH IN	MBH OUT
IDF #1	500	400
IDF #2	350	280

RETURN FILTER — RETURN

CFM	TYPE	DEPTH (in)	FACE VEL. (FPM)	MERV	QTY	WIDTH (in)	HEIGHT (in)	CLEAN PD	TOTAL PD
23760	Aluminum	2	594	N/A	10	24	24	0.14	0.57

EXHAUST FAN — EXHAUST

QTY	CFM	CLASS	SIZE (mm)	TYPE	TSP (\"WC)	BHP	MHP	RPM	MOTOR RPM	VFD Hz	MOTOR TYPE
2	8080	N/A	560	Plenum	2.98	5.7	7.5	1754	1800	60.1	TEFC
TOTAL:	16160	-	-	-	2.98	11.3	15.0	-	-	-	-

TSP CALCULATION

RA ESP (\"WC)	1.25	Return Filter Clean PD (\"WC)	0.14	Plate Heat Exchanger (\"WC)	0.86
Casing Loss (\"WC)	0.30	Return Filter Loading PD (\"WC)	0.43	TSP:	2.98 \"WC

AIR-COOLED REFRIGERATION — NONAIRSTREAM

TONS	AMBIENT (°F)	CIRCUITS	# OF STAGES	REF. EER
95.5	95.0	2	4	9.7

ELECTRICAL INFORMATION — UNIT POWER

COMPONENT	VOLTS	PHASE	FREQ. (Hz)	MOP	MCA
Electrical Enclosure	460	3	60	250	245.2
AMP SUMMARY					
Air-Cooled Refrigeration	4.0 x 6	Exhaust Fan	9.5 x 2	--	--
Air-Cooled Refrigeration	37.8 x 4	Supply Fan	18.1 x 2	Total:	230.4

ERU-2 ADDITIONAL INFO

Unit Performance

Design Conditions

Elevation (ft)	Summer DB (F)	Summer WB (F)	Winter DB (F)	Supply (CFM)	Outdoor Air (CFM)	Exhaust Air (CFM)
807	91.1	78.2	-0.5	7,000	4,000	4,000

Unit Specifications

Qty	Weight (lb)	Cooling Type	Heating Type	Unit Installation	Unit ETL Listing	Furnace ETL Listing
1	5,017 (+/- 5%)	Packaged DX	Indirect Gas	Outdoor	UL\cUL 1995	ANSI Z83.8 / CSA 2.6

Configuration

Outdoor Air		Exhaust Air	
Intake	Discharge	Intake	Discharge
End	Bottom	Bottom	Side

ASHRAE 90.1-2019 Compliance

	ASHRAE 90.1 Min. Efficiency	Calculated Efficiency	Compliance
EER	9.8	10.6	✓
IEER	13	16.5	✓
Enthalpy Recovery Ratio (%)	50	65.7	✓

Energy Recovery Performance

Design Condition	Outdoor Air DB	Outdoor Air WB	Supply Air DB	Supply Air WB	Return Air DB	Return Air WB/RH	Exhaust Air DB	Exhaust Air WB	Capacity Reduction (BTU/h)
Summer	91.1	78.2	80.0	68.5	75.0	62.4/50	86.0	73.3	163,800.0
Winter	-0.5	-2.0	47.4	41.6	72.0	55.7/35	21.6	19.6	206,928.0

Cooling Specifications

Type	Total Capacity (MBH)	Sensible Capacity (MBH)	Lead Compressor Type	Coil (DB/WB) EAT (F)	Coil (DB/WB) LAT (F)	Reheat Capacity (MBH)	Reheat LAT (F)
Packaged DX	289.9	194.0	Inverter Scroll	77.9 / 66.0	52.6 / 52.5	142.8	71.5

Heating Specifications

Type	Gas Type	Input (MBH)	Output (MBH)	Temperature Rise Min (F)	Temperature Rise Max (F)	Turndown	Performance EAT (F)	Performance LAT (F)
Indirect Gas	Natural	300.0	240.0	3.0	32.0	12:1	58.0	89.7

Air Performance

Type	Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	FRPM	Fan Qty	Fan Type	Fan Drive-Type
Supply	7,000	0.25	4.868	1986	1	Plenum	Direct
Exhaust	4,000	1.5	3.01	1454	1	Plenum	Direct
Economizer	4,000	1.5	1.746	1210	1	Plenum	Direct

Motor Specifications

Motor	Qty	Operating Power (hp)	Size (hp)	Enclosure	Efficiency	RPM
Supply	1	8.29	10	ODP	PE	1770
Exhaust	1	3.14	5	ODP	PE	1760

Electrical Specifications

Power Supply	Rating (V/C/P)	MCA (A)	MOP (A)	Fan Power (W/CFM)*
Unit	460/60/3	60.2	70.0	1.217

FAN SCHEDULE

SPECIFICATION SECTION 233423

UNIT ID	DESCRIPTION	FAN DATA: WHEEL SIZE	FAN DATA: DRIVE TYPE	FAN DATA: CFM	FAN DATA: TSP	FAN DATA: BHP	FAN DATA: RPM	FAN DATA: SONES	MOTOR DATA: HP	MOTOR DATA: VOLTS	MOTOR DATA: PH	ACCESSORIES: ROOF CURB	ACCESSORIES: DISCONNECT SWITCH	ACCESSORIES: GRAVITY BACKDRAFT DAMPER	ACCESSORIES: VIBRATION ISOLATORS	ACCESSORIES: BIRD SCREEN	UNIT WEIGHT (LBS)	MANUFACTURER WITH MODEL NUMBER	NOTES
EF-1	SIDEWALL BELT DRIVE FAN	20	BELT	750 CFM	0.5	0.35	1725	17.1	1/2	120	1	NO	YES	YES	NO	YES	62.00	GREENHECK SBE-2H20-5	1, 2
EF-2	DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	7	DIRECT	275 CFM	0.25	0.03	1725	4.9	1/15	120	1	YES	YES	YES	NO	YES	22.00	GREENHECK G-070-VG	3
EF-3	DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	9.5	DIRECT	750 CFM	0.5	0.15	1725	10.2	1/6	120	1	YES	YES	YES	NO	YES	32.00	GREENHECK G-095-VG	2
EF-4	DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	9.7	DIRECT	100 CFM	0.25	0.12	1725	9.5	1/4	120	1	YES	YES	YES	NO	YES	48.00	GREENHECK G-097-A	1, 3
EF-5	DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	9.7	DIRECT	100 CFM	0.25	0.12	1725	9.5	1/4	120	1	YES	YES	YES	NO	YES	48.00	GREENHECK G-097-A	1, 3

NOTES:
1. PROVIDE WITH HI-PRO-POLYESTER COATING.
2. FAN CONTROLLED OFF ROOM THERMOSTAT.
3. FAN SHALL RUN CONTINUOUSLY.

ELECTRIC UNIT HEATER SCHEDULE

UNIT ID	CONFIGURATION	CFM	HEATING DATA: MIN. KW	HEATING DATA: MBH	ELECTRICAL DATA: AMPS	ELECTRICAL DATA: VOLTAGE	ELECTRICAL DATA: PHASE	ACCESSORIES: DISCONNECT SWITCH	ACCESSORIES: INTEGRAL THERMOSTAT	ACCESSORIES: WALL BRACKET	MANUFACTURER WITH MODEL NUMBER	NOTES
ECH-1	CEILING RECESSED	300	4	13.7	19.2	208	1	YES	YES	NO	QMARK - CDFRE 548	2, 4
ECH-2	CEILING RECESSED	300	4	13.7	19.2	208	1	YES	YES	NO	QMARK - CDFRE 548	2, 4
UH-1	VERTICAL	350	3	10.2	14.5	208	1	YES	YES	NO	QMARK - MUH0381	1, 2, 4
UH-2	VERTICAL	350	3	10.2	14.5	208	1	YES	YES	NO	QMARK - MUH0381	1, 2, 4
UH-3	VERTICAL	700	3	10.2	16.7	208	1	YES	YES	NO	BERKO - RUX300812	1, 2, 3, 4
UH-4	VERTICAL	700	3	10.2	16.7	208	1	YES	YES	NO	BERKO - RUX300812	1, 2, 3, 4
UH-5	VERTICAL	700	3	10.2	16.7	208	1	YES	YES	NO	BERKO - RUX300812	1, 2, 3, 4
UH-6	VERTICAL	700	3	10.2	14.5	208	1	YES	YES	NO	QMARK - MUH0381	1, 2, 4
UH-7	VERTICAL	700	3	10.2	14.5	208	1	YES	YES	NO	QMARK - MUH0381	1, 2, 4

NOTES:
1. PROVIDE WITH ALL REQUIRED MOUNTING BRACKETS.
2. MAINTAIN ALL REQUIRED CLEARANCES.
3. UNIT SHALL BE EXPLOSION PROOF.
4. PROVIDE WITH UNIT MOUNTED THERMOSTAT.

DIFFUSERS & GRILLES SCHEDULE

SPECIFICATION SECTION 233713

UNIT ID	MAX CFM	DIMENSIONAL DATA: FACE SIZE	DIMENSIONAL DATA: SLOT INFO	DIMENSIONAL DATA: CONN. SIZE	THROW DATA: DIRECTION	THROW DATA: DISTANCE @ NOM. CFM	MOUNT	MAX NC SOUND LEVEL	ACCESSORIES: BALANCE DAMPER	ACCESSORIES: PLENUM BOX	ACCESSORIES: TAMPER-PROOF SCREWS	MANUFACTURER WITH MODEL NUMBER	NOTES
EG1	720	12"x12"	-	10"x10"	-	-	SEE RCP	25	YES	YES	NO	PRICE 80	1, 2, 4
EG2	2005	24"x24"	-	22"x22"	-	-	SEE RCP	25	YES	YES	NO	PRICE 80	1, 2, 4
RG2	2005	24"x24"	-	22"x22"	-	-	SEE RCP	25	NO	YES	NO	PRICE 80	2, 4
SD1	213	24"x24"	-	6"	4-WAY	3-4-7	SEE RCP	25	NO	NO	NO	PRICE SPD	1, 2, 3
SD2	332	24"x24"	-	8"	4-WAY	5-7-10	SEE RCP	25	NO	NO	NO	PRICE SPD	1, 2, 3
SD3	490	24"x24"	-	10"	4-WAY	6-8-12	SEE RCP	25	NO	NO	NO	PRICE SPD	1, 2, 3
SG1	590	24"x12"	-	22"x10"	45 DEG.	7-10-12	DUCT	25	YES	NO	NO	PRICE 535FL	5

NOTES:
1. ALUMINUM CONSTRUCTION.
2. FURNISH WITH LAY-IN STYLE PLASTER FRAMES FOR DRYWALL CEILING INSTALLATION. REFER TO ARCHITECT'S CEILING PLAN FOR DRYWALL CEILING LOCATIONS.
3. FURNISH WITH 4-WAY THROW FULL FLAT FACE PANEL.
4. FURNISH WITH 1/2"x1/2"x1/2" CORE.
5. FURNISH WITH 45 DEGREE DEFLECTION 1/2" SPACED BLADES PARALLEL TO THE LONG DIMENSION.

LOUVER SCHEDULE

SPECIFICATION SECTION 233300

UNIT ID	TYPE	WIDTH (INCHES)	HEIGHT (INCHES)	DEPTH (INCHES)	FREE AREA (SQ. FT.)	MAX AIRFLOW (CFM)	MAX AIR VELOCITY (FPM)	MANUFACTURER WITH MODEL NUMBER	NOTES
L-1	STATIONARY DRAINABLE	24"	18"	6"	1.38	750 CFM	600	RUSKIN - ELF6375DX	
L-2	STATIONARY DRAINABLE	12"	12"	6"	.36	100 CFM	600	RUSKIN - ELF6375DX	
L-3	STATIONARY DRAINABLE	24"	18"	6"	1.38	750 CFM	600	RUSKIN - ELF6375DX	
L-4	STATIONARY DRAINABLE	28"	28"	6"	3.27	750 CFM	600	RUSKIN - ELF6375DX	
L-5	STATIONARY DRAINABLE	12"	12"	6"	.36	100 CFM	600	RUSKIN - ELF6375DX	

ELECTRIC REHEAT TERMINAL UNIT SCHEDULE

SPECIFICATION SECTION 233600

UNIT ID	LOCATION: NAME	LOCATION: NUMBER	DESIGN CFM	MIN CFM	HEAT CFM	UNIT INLET SIZE	DESIGN INLET PRESSURE IN. WG	SOUND LEVEL @ DESIGN AIRFLOW	MIN KW	EAT	LAT	AMPS	VOLTS	PH	MANUFACTURER WITH MODEL NUMBER	NOTES
VAV-1	LIFEGUARD	2	145	75	75	4	1	28	0.7	55 °F	85 °F	2.53	277	1	PRICE SCRA	
VAV-2	LIFEGUARD	2	2625	800	1315	14	1	21	12.1	55 °F	84 °F	43.68	277	1	PRICE SCRA	
VAV-3	CIRC-1	38-1	600	180	300	7	1	29	2.8	55 °F	85 °F	10.11	277	1	PRICE SCRA	
VAV-4	CIRC-1	38-1	600	180	300	7	1	29	2.8	55 °F	85 °F	10.11	277	1	PRICE SCRA	
VAV-5			440	135	220	5	1	34	2.1	55 °F	85 °F	7.58	277	1	PRICE SCRA	
VAV-6			440	135	220	5	1	34	2.1	55 °F	85 °F	7.58	277	1	PRICE SCRA	
VAV-7	CIRC-1	38-1	1440	435	720	10	1	25	6.8	55 °F	85 °F	24.55	277	1	PRICE SCRA	
VAV-8	LIFEGUARD	2	500	150	250	5	1	36	2.4	55 °F	85 °F	8.66	277	1	PRICE SCRA	
			6790													

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JOYCE ELLEN JONES REGISTERED No. PE60920263 STATE OF INDIANA PROFESSIONAL ENGINEER

#	Revision	Date
	Addendum #1	01/05/2023
	Addendum #2	01/12/2023
	Addendum #3	01/31/2023

5640 N Illinois St
Indianapolis, IN 46208

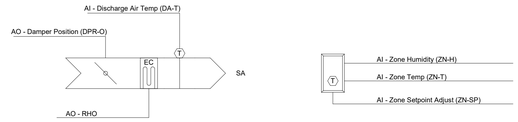
KEY PLAN

The Riviera Club

Aquatics Center

MECHANICAL SCHEDULES

M601



A TERMINAL CONTROLLER SHALL BE PROVIDED FOR EACH TERMINAL UNIT. FURNISH TERMINAL CONTROLLER, CONTROL TRANSFORMER AND PRESSURE SENSOR TO UNIT MANUFACTURER FOR FACTORY MOUNTING AND WIRING.

RUN CONDITIONS - SCHEDULE:
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:

ZONE OPTIMAL START: THE UNIT SHALL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM SHALL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD.

OCCUPIED MODE:
ON A CALL FOR COOLING, THE VAV CONTROLLER MODULATES THE VAV BOX (DPR-O) FROM MINIMUM AIRFLOW TO MAINTAIN THE ZONE TEMPERATURE (ZN-T) AT ITS COOLING SETPOINT. ON A CALL FOR HEATING, THE VAV BOX (DPR-O) MODULATES TO MINIMUM HEATING AIRFLOW AND THE ELECTRIC REHEAT (RH-O) IS MODULATED TO MAINTAIN THE ZONE TEMPERATURE (ZN-T) AT ITS HEATING SETPOINT.

UNOCCUPIED MODE:
THE VAV CONTROLLER ENABLES THE VAV BOX HEATING AND COOLING WHEN NECESSARY TO MAINTAIN THE UNOCCUPIED HEATING AND COOLING SETPOINTS. ON A CALL FOR HEATING OR COOLING, THE CONTROLLER WILL SEND A SIGNAL TO THE AIR HANDLING UNIT TO START AND OPERATE PER ITS UNOCCUPIED MODE SEQUENCE.

ALARMS SHALL BE PROVIDED AS FOLLOWS: HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.). LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.).

ZONE HUMIDITY: THE CONTROLLER SHALL MONITOR THE ZONE HUMIDITY. ALARMS SHALL BE PROVIDED AS FOLLOWS: HIGH ZONE HUMIDITY: IF THE ZONE HUMIDITY IS GREATER THAN 70% (ADJ.).

6 VAV CONTROL DIAGRAM
NOT TO SCALE

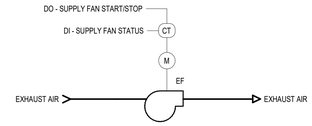
EXHAUST FANS

RUN CONDITIONS - SCHEDULED:
THE FAN SHALL RUN CONTINUOUSLY.

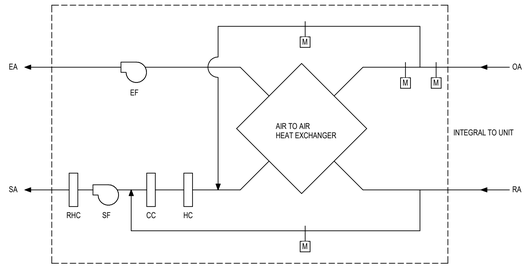
FAN:
THE FAN SHALL RUN CONTINUOUSLY.

FAN STATUS:
THE CONTROLLER SHALL MONITOR THE FAN STATUS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).



3 EF-4 EXHAUST FAN SCHEMATIC
NOT TO SCALE



5 ERU-1 FLOW DIAGRAM
NOT TO SCALE

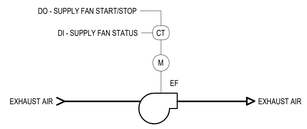
EXHAUST FANS

RUN CONDITIONS - SCHEDULED:
THE FAN SHALL RUN ACCORDING TO A USER DEFINABLE SCHEDULE.

FAN:
THE FAN SHALL RUN WHEN SCHEDULED.

FAN STATUS:
THE CONTROLLER SHALL MONITOR THE FAN STATUS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).



2 TYPICAL EXHAUST FAN SCHEMATIC
NOT TO SCALE

CONTROL APPLICATION SUMMARY:
- THIS P-SERIES UNIT IS A HEAT/COOL AIR HANDLING UNIT WITH ENERGY RECOVERY. KEY COMPONENTS INCLUDE, FLAT PLATE HEAT EXCHANGER, SUPPLY FAN, EXHAUST FAN, DIRECT EXPANSION COIL (COOLING), INDIRECT GAS FURNACE (HEATING), HOT GAS REHEAT (REHEATING), AND A UNIT CONTROLLER.
- THE UNIT CONTROLLER PROVIDES CONTROL OF TEMPERATURE, VENTILATION, AS WELL AS, UNIT STATUS, COMPONENT SAFETIES, ALARM AND DIAGNOSTIC INFORMATION.
- THE SUPPLY TEMPERATURE SET POINT IS RESET UP AND DOWN BASED ON RETURN TEMPERATURE DRIFT. IN DEHUMIDIFICATION MODE, THE COOLING IS CONTROLLED TO MAINTAIN THE DIRECT EXPANSION COIL LEAVING AIR TEMPERATURE AND REHEAT IS CONTROLLED TO MAINTAIN THE UNIT SUPPLY TEMPERATURE. THE SUPPLY FAN PROVIDES A CONSTANT AIR VOLUME SET THROUGH THE UNIT CONTROLLER. THE EXHAUST FAN IS CONTROLLED TO MAINTAIN A NEGATIVE NATATORIUM SPACE PRESSURE.

OPERATING STATES

OCCUPIED
- SUPPLY FAN ON, 100% BALANCED AIRFLOW.
- EXHAUST FAN ON, CONTROL PER SEQUENCE.
- ECONOMIZER ENABLED.
- DEHUMIDIFICATION ENABLED.
- HEATING ENABLED.
- COOLING ENABLED.
- ALL DAMPERS ARE ENABLED.

SUPPLY FAN CONTROL
- THE SUPPLY FAN VARIABLE SPEED FUNCTION SHALL BE USED FOR MANUAL FIELD BALANCING ONLY.

EXHAUST FAN CONTROL
- THE EXHAUST FAN VARIABLE SPEED SHALL MODULATE TO MAINTAIN A NEGATIVE DIFFERENTIAL PRESSURE BETWEEN THE POOL SPACE AND AN ADJACENT SPACE. SET POINT: -0.04" W.C., ADJUSTABLE.
- THE EXHAUST FAN VARIABLE SPEED WILL BE LIMITED BY AN OFFSET OF THE CURRENT OUTDOOR DAMPER POSITION.

OPERATING MODES

HEATING
- HEATING MODE: THE INDIRECT GAS FURNACE IS CONTROLLED TO MAINTAIN THE SUPPLY TEMPERATURE SET POINT.
- HEATING LOCKOUT: THE INDIRECT GAS FURNACE WILL BE LOCKED OUT WHEN THE OUTSIDE AIR IS > 85°F, ADJUSTABLE.

COOLING
- THE ECONOMIZER AND MECHANICAL COOLING ARE CONTROLLED TO MAINTAIN THE SUPPLY TEMPERATURE SET POINT. THE ECONOMIZER, IF AVAILABLE, WILL BE USED AS THE FIRST STAGE OF COOLING.
- ECONOMIZER MODE (ENERGY RECOVERY REDUCTION TYPE) ACTIVE ONLY IF THE OUTSIDE AIR TEMPERATURE < RETURN AIR TEMPERATURE.
- THE OUTSIDE AIR HEAT EXCHANGER FACE/BYPASS DAMPERS MODULATE (BYPASSING OUTSIDE AIR AROUND THE HEAT EXCHANGER) TO MAINTAIN THE SUPPLY TEMPERATURE SET POINT.
- COOLING MODE: THE DIRECT EXPANSION COIL IS CONTROLLED TO MAINTAIN THE UNIT SUPPLY TEMPERATURE SET POINT.
- COOLING LOCKOUT: THE DIRECT EXPANSION COIL WILL BE LOCKED OUT WHEN THE OUTSIDE AIR IS < 50°F, ADJUSTABLE.

DEHUMIDIFICATION
- STAGE 1
- THE OUTSIDE AIR AND RECIRCULATION DAMPERS MODULATE TO MAINTAIN RETURN DEW POINT SET POINT: 70.5°F, ADJUSTABLE.
- WHEN THE OUTSIDE AIR DAMPER IS AT ITS MAXIMUM POSITION, THE RECIRCULATION AIR DAMPER IS AT ITS MINIMUM POSITION, AND THE EXHAUST FAN VARIABLE SPEED IS AT MAXIMUM EXHAUST (+/- SPACE PRESSURE OFFSET, DESCRIBED ABOVE).
- STAGE 2
- MAXIMUM OUTSIDE AIR SHALL BE MAINTAINED WHILE THE DIRECT EXPANSION COIL IS ENERGIZED FOR RETURN DEW POINT CONTROL (OUTSIDE AIR DAMPER IS IN ITS MAXIMUM POSITION, AND RECIRCULATION AIR DAMPER IS IN ITS MINIMUM POSITION).
- THE COOLING IS CONTROLLED TO MAINTAIN THE DIRECT EXPANSION COIL LEAVING AIR TEMPERATURE SET POINT.
- WHEN THE DIRECT EXPANSION COIL IS ACTIVATED FOR DEHUMIDIFICATION, THE UNIT CONTROLLER WILL RESET THE DIRECT EXPANSION COIL LEAVING AIR TEMPERATURE SET POINT UP AND DOWN BETWEEN THE VALUES LISTED BELOW IN ORDER TO MAINTAIN THE RETURN DEW POINT SET POINT.
  - DEHUMIDIFICATION COIL LEAVING MINIMUM SET POINT 57°F, ADJUSTABLE
  - DEHUMIDIFICATION COIL LEAVING MAXIMUM SET POINT 70.5°F
- HOT GAS REHEAT IS CONTROLLED TO MAINTAIN THE SUPPLY TEMPERATURE SET POINT BETWEEN THE COOLING MINIMUM AND HEATING MAXIMUM SUPPLY SET POINTS.
- IF HEATING IS ACTIVE AND UNABLE TO MAINTAIN THE UNIT SUPPLY TEMPERATURE SET POINT, THE DEHUMIDIFICATION DAMPER CONTROL LOOP SHALL BE LIMITED TO MINIMUM POSITION.

SUPPLY TEMPERATURE SET POINT
- THE UNIT CONTROLLER WILL RESET THE SUPPLY TEMPERATURE SET POINT UP & DOWN BETWEEN THE VALUES LISTED BELOW, IN ORDER TO MAINTAIN THE RETURN TEMPERATURE SET POINT.
- RETURN TEMPERATURE SET POINT HEATING MODE 85°F, ADJUSTABLE.
  - SUPPLY HEATING MINIMUM SET POINT: 75°F, ADJUSTABLE.
  - SUPPLY HEATING MAXIMUM SET POINT: 95°F, ADJUSTABLE.
- RETURN TEMPERATURE SET POINT COOLING MODE 87°F, ADJUSTABLE.
  - SUPPLY COOLING MINIMUM SET POINT: EQUAL TO THE CURRENT RETURN DEW POINT + 2°F.
  - SUPPLY COOLING MAXIMUM SET POINT: 85°F.

PURGE MODE
- PURGE MODE SHALL BE CONTROLLED THROUGH THE BMS INTERFACE OR REMOTE SWITCH.
- PURGE MODE SHALL BE USED TO INDEX THE UNIT INTO MAXIMUM OUTSIDE AIR MODE FOR REMOVAL OF CHEMICAL OFF-GASSING DURING A "POOL-SHOCKING" PROCEDURE.
- A DIGITAL INPUT OR A MANUAL OVERRIDE ON THE REMOTE USER TERMINAL CAN BE USED TO ENERGIZE/DE-ENERGIZE THE PURGE MODE.
- IN PURGE MODE THE OUTSIDE AND RECIRCULATION AIR DAMPERS SHALL BE MODULATED TO THEIR MAXIMUM OUTSIDE AIR POSITION.
- STAGE 1 DEHUMIDIFICATION OVERRIDDEN.
- STAGE 2 DEHUMIDIFICATION CONTROL PER SEQUENCE.
- COOLING CONTROL PER SEQUENCE.
- HEATING CONTROL PER SEQUENCE.
- THE PURGE MODE HAS AN ADJUSTABLE "PURGE TIME LIMIT" (ADJUSTABLE ON A USER TERMINAL, FACTORY SET AT 180 MINUTES).

AIR TO AIR HEAT EXCHANGER DEFROST SEQUENCE
- THE OUTSIDE AIR HEAT EXCHANGER FACE & BYPASS DAMPERS MODULATE (BYPASSING OUTSIDE AIR AROUND THE HEAT EXCHANGER) TO MAINTAIN ITS LEAVING EXHAUST AIR TEMPERATURE ABOVE THE DEFROST SET POINT: 38°F, ADJUSTABLE.

UNIT SHUTDOWN SAFETIES

SUPPLY TEMPERATURE LOW LIMIT
- IF THE UNIT SUPPLY TEMPERATURE DROPS BELOW 35°F (ADJUSTABLE), THE UNIT CONTROLLER SHALL SHUT DOWN THE UNIT AFTER AN ADJUSTABLE TIME DELAY.

SUPPLY TEMPERATURE HIGH LIMIT
- IF THE UNIT SUPPLY TEMPERATURE RISES ABOVE 120°F (ADJUSTABLE), THE UNIT CONTROLLER SHALL SHUT DOWN THE UNIT AFTER AN ADJUSTABLE TIME DELAY.

PHASE/VOLTAGE MONITOR
- A PHASE/VOLTAGE PROTECTION RELAY SHALL BE PROVIDED FOR EACH UNIT. UPON SENSING A LOSS OF PHASE OR VOLTAGE, THE UNIT SHALL IMMEDIATELY SHUT DOWN.

SMOKE DETECTOR(S)
- RETURN AND/OR SUPPLY SMOKE DETECTOR(S), PROVIDED, INSTALLED AND FIELD WIRED IN SERIES, BY OTHERS. UPON DETECTING SMOKE, THE SMOKE DETECTOR(S) SHALL SEND A SINGLE BINARY SIGNAL TO THE UNIT CONTROLLER TO IMMEDIATELY SHUT DOWN THE UNIT.

SEQUENCE REQUIRED SENSORS

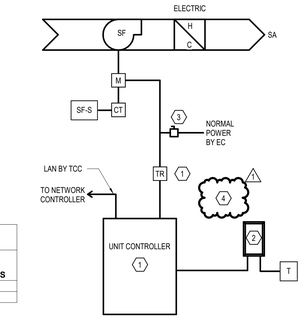
ANALOG (FACTORY)
- SUPPLY AIR TEMPERATURE
- OUTSIDE AIR TEMPERATURE
- OUTSIDE AIR HUMIDITY
- RETURN AIR TEMPERATURE
- RETURN AIR HUMIDITY
- EXHAUST AIR TEMPERATURE
- DIRECT EXPANSION COIL LEAVING AIR TEMPERATURE
- SPACE DIFFERENTIAL PRESSURE SENSOR

DIGITAL (FACTORY)
- SUPPLY FAN STATUS EACH FAN
- EXHAUST FAN STATUS EACH FAN
- PHASE/VOLTAGE PROTECTION RELAY

4 ERU-1 & 2 SEQUENCE OF OPERATION
NOT TO SCALE

DDC CONTROLLER UNIT HEATER

CONTROLLER POINT & TYPE	OBJECT NAME	OBJECT DESCRIPTION	UNITS	TREND	ALARM	GRAPHIC	NOTES
AI-6	T	SPACE TEMP	DEG F	Yes	No	Yes	
BI-1	SF-S	SUPPLY FAN STATUS	OFF/ON	Yes	No	Yes	



PLAN NOTES:
1. INTEGRAL TO UNIT FROM MANUFACTURER.
2. THERMOSTAT PROVIDED AND INSTALLED BY TCC, 24 VDC.
3. ~~SECONDARY POWER SUPPLY BY EC.~~
4. TCC COMPONENTS DON'T NEED TO BE EXPLOSION PROOF.

SEQUENCE OF OPERATION:
1. UNIT HEATER SHALL CYCLE TO MAINTAIN SPACE TEMPERATURE, 60°F (ADJ).

1 ELECTRIC UNIT HEATER CONTROL SCHEMATIC
NO SCALE

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Project No. 2021-178.RVI
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#	Revision	Date
	Addendum #3	01/31/2023

5640 N Illinois St
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KEY PLAN

The Riviera Club

Aquatics Center

TEMPERATURE CONTROL DIAGRAMS

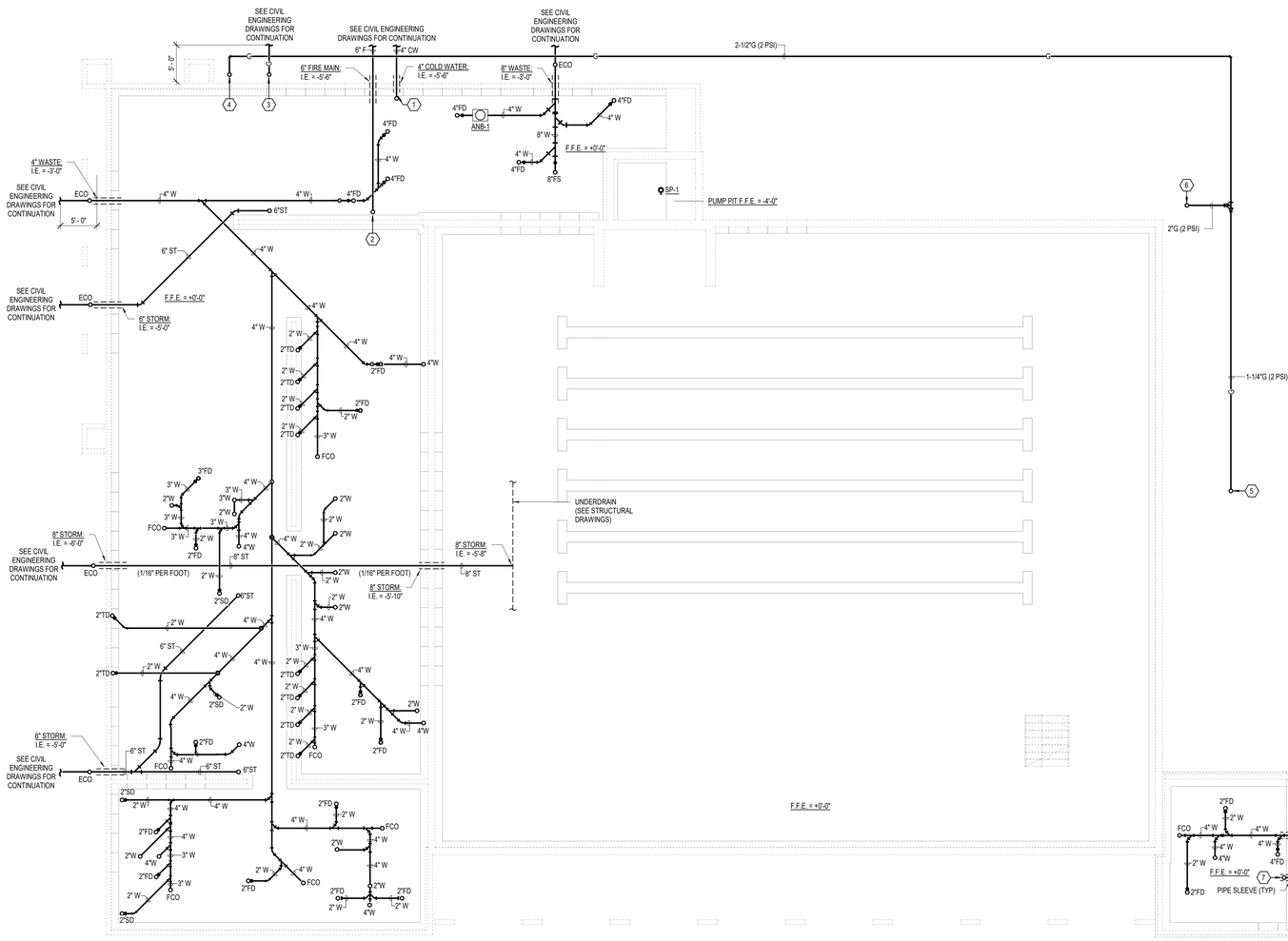
M901

GENERAL NOTES

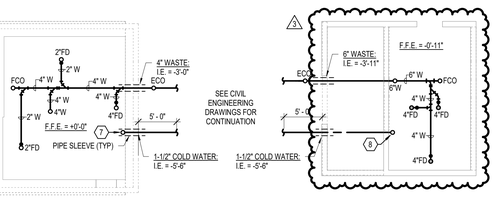
A REFER TO DRAWING P-000 FOR PLUMBING AND FIRE PROTECTION SYMBOLS AND ABBREVIATIONS.
B REFER TO DRAWING P-500 SERIES FOR PLUMBING DETAILS.
C REFER TO DRAWING P-600 SERIES FOR PLUMBING SCHEDULES.
D ALL FLOOR DRAINS AND AND FLOOR CLEANOUTS TO BE FLUSH AND LEVEL WITH FINISHED FLOORS. CONTRACTOR IS RESPONSIBLE FOR ANY REWORK NECESSARY FOR IMPROPER INSTALLATION.
E REFER TO THE "PLUMBING FIXTURE ROUGH-IN SCHEDULE" TO SIZE BRANCH LINES TO INDIVIDUAL PLUMBING FIXTURES.
F INSTALL UNDERGROUND PVC DWV PIPING ACCORDING TO ASTM D 2321.
G SLEEVE ALL PIPING PASSING THROUGH FOUNDATION WALLS AND BELOW FOOTINGS. SLEEVE SHALL BE TWO PIPE DIAMETERS LARGER THAN PIPE. SLEEVE SHALL EXTEND BEYOND THE ANGLE OF REPOSE.
H AVOID ALL CONFLICTS BETWEEN PLUMBING SYSTEMS, AND UNDERGROUND CONDUIT, PIPING, STRUCTURAL MEMBERS, AND ANY OTHER OBSTRUCTIONS ENCOUNTERED. PIPING LAYOUTS ARE DIAGRAMMATIC AND SHOW SYSTEM INTENT. PIPING MAY REQUIRE ADDITIONAL OFFSETS, DROPS, FITTINGS ETC.

SHEET KEYNOTES

1 4"CW MAIN UP.
2 6" FIRE MAIN UP.
3 GAS SERVICE BY UTILITY COMPANY
4 2-1/2"G (2 PSI) FROM ABOVE.
5 1-1/4"G (2 PSI) UP.
6 2"G (2 PSI) UP.
7 1-1/2" CW FROM ABOVE.
8 1-1/2" CW MAKE-UP UP TO SERVE POOL EQUIPMENT.



1 PLUMBING FOUNDATION PLAN
1/8" = 1'-0"



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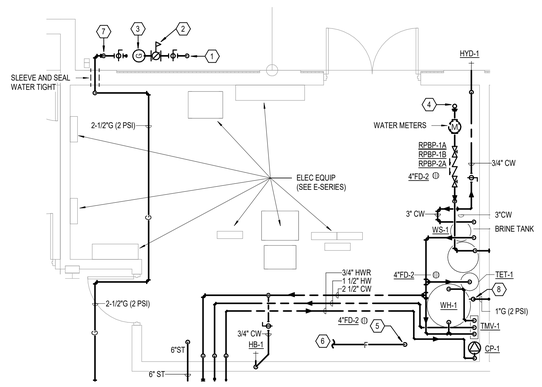
KEY PLAN

The Riviera Club

Aquatics Center

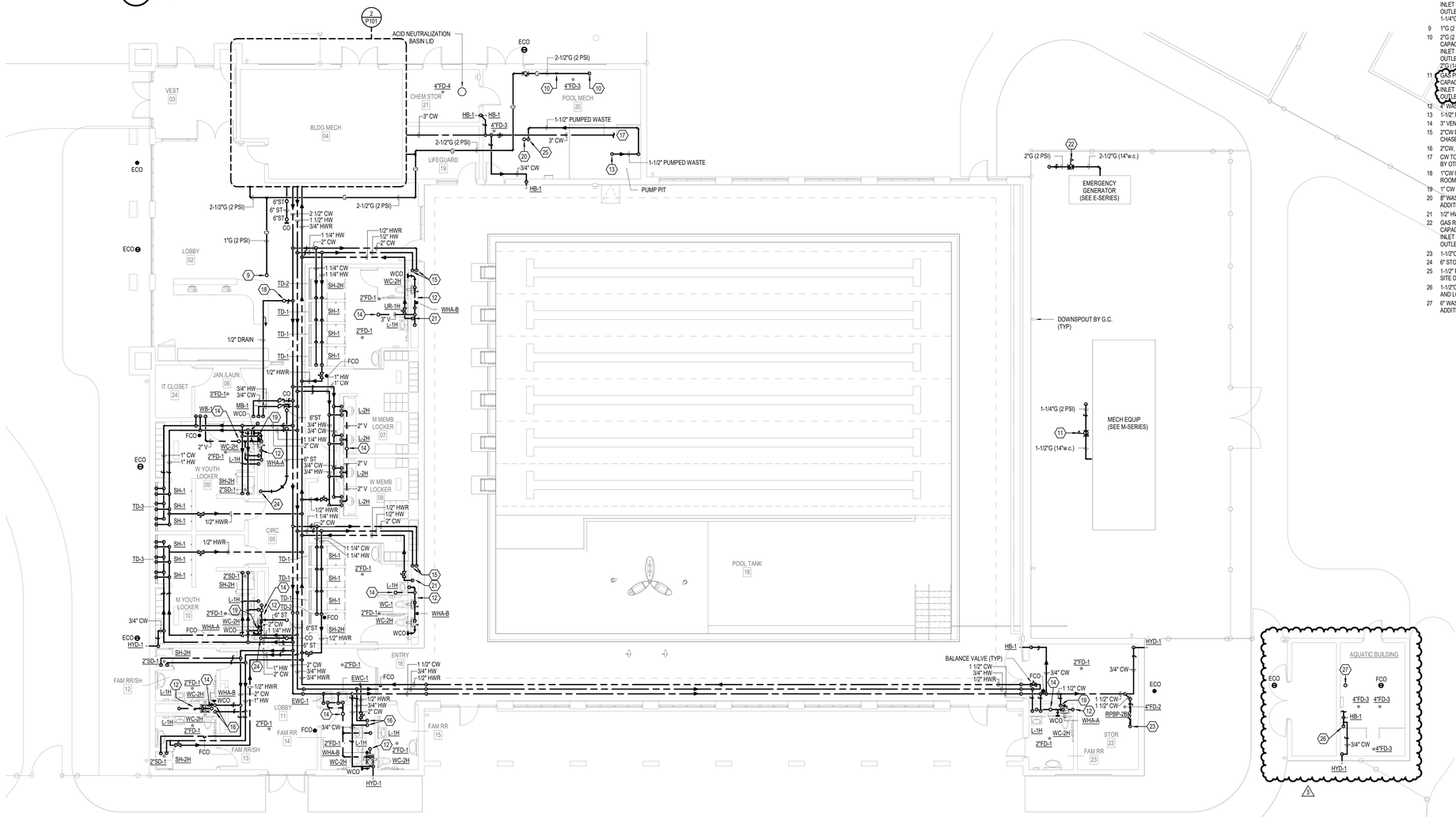
FOUNDATION PLUMBING PLAN

P100



2 ENLARGED BUILDING MECH ROOM PLUMBING PLAN

1/4" = 1'-0"



1 FIRST FLOOR PLUMBING PLAN

1/8" = 1'-0"

GENERAL NOTES

A REFER TO DRAWING P-000 FOR PLUMBING AND FIRE PROTECTION SYMBOLS AND ABBREVIATIONS.

B REFER TO DRAWING P-600 SERIES FOR PLUMBING DETAILS.

C REFER TO DRAWING P-600 SERIES FOR PLUMBING SCHEDULES.

D ALL FLOOR DRAINS AND AND FLOOR CLEANOUTS TO BE FLUSH AND LEVEL WITH FINISHED FLOORS. CONTRACTOR IS RESPONSIBLE FOR ANY REWORK NECESSARY FOR IMPROPER INSTALLATION.

E REFER TO THE "PLUMBING FIXTURE ROUGH-IN SCHEDULE" TO SIZE BRANCH LINES TO INDIVIDUAL PLUMBING FIXTURES.

F LOCATE SHUT-OFF VALVES ABOVE ACCESSIBLE CEILINGS OR ACCESS PANELS IN GYP. CEILINGS.

G INSTALL PIPING AS HIGH AS POSSIBLE. MAINTAIN CODE REQUIRED SLOPE ON ALL WASTE AND VENT PIPING.

H AVOID ALL CONFLICTS BETWEEN PLUMBING SYSTEMS, AND CONDUIT, DUCT, EQUIPMENT, PIPING, STRUCTURAL MEMBERS, AND ANY OTHER OBSTRUCTIONS ENCOUNTERED. PIPING LAYOUTS ARE DIAGRAMMATIC AND SHOW INTENT. PIPING MAY REQUIRE ADDITIONAL OFFSETS, DROPS, FITTING, ETC.

I PROVIDE SHUT-OFF, DIRT LEG AND UNION AT EACH NATURAL GAS CONNECTION TO GAS FIRED EQUIPMENT.

J COORDINATE LOCATION OF NATURAL GAS CONNECTION WITH EQUIPMENT MANUFACTURER'S DATA.

K PRIME AND PAINT GAS PIPING OUTSIDE BUILDING TO PREVENT RUSTING. APPLY TWO COATS OF RUST-INHIBITING PRIMER AND TWO COATS OF ENAMEL PAINT FORMULATED FOR EXTERIOR USE. COLOR AS SELECTED BY ARCHITECT.

SHEET KEYNOTES

1 GAS SERVICE LINE DOWN BELOW GRADE.
2 GAS SERVICE GAS REGULATOR AND GAS METER BY UTILITY.
3 GAS METER - SIZE FOR:
TOTAL CONNECTED LOAD: 6,280,000 BTUH
SERVICE PRESSURE: 2 PSI
4 CW MAIN FROM BELOW.
5 6" FIRE RISER WITH SUPERVISED CONTROL VALVE, FLOW SWITCH, AND MAIN DRAIN.
6 TO SPRINKLER SYSTEM.
7 2-1/2"G (2 PSI) DOWN.
8 1"G (2 PSI) DOWN WITH SHUT-OFF AND GAS REGULATOR - SIZE FOR:
CAPACITY: 285,000 BTUH
INLET PRESSURE: 2 PSI
OUTLET PRESSURE: 14"w.c.
1-1/4"G (14"w.c.) TO WATER HEATER.
9 1"G (2 PSI) UP TO ROOF.
10 2"G (2 PSI) DOWN WITH SHUT-OFF AND GAS REGULATOR - SIZE FOR:
CAPACITY: 1,442,000 BTUH
INLET PRESSURE: 2 PSI
OUTLET PRESSURE: 14"w.c.
2"G (14"w.c.) TO POOL HEATER.
11 GAS PRESSURE REGULATOR - SIZE FOR:
CAPACITY: 850,000 BTUH
INLET PRESSURE: 2 PSI
OUTLET PRESSURE: 14"w.c.
12 4" WASTE DOWN.
13 1-1/2" PUMPED WASTE FROM (SP-1) IN PUMP PIT.
14 3" VENT UP TO 4" V.T.R.
15 2"CW DOWN IN CHASE WITH HEADER TO SERVE FIXTURES, 1/2"HW DOWN IN CHASE WITH HEADER TO SERVE FIXTURES..
16 2"CW, 3/4"HW DOWN IN CHASE.
17 CW TO EXTEND AND CONNECT TO POOL EQUIPMENT. DESIGN AND LOCATIONS BY OTHERS.
18 1"CW UP TO SERVE ROOF HYDRANT. ROUTE 1/2" DRAIN LINE TO JAN/LAUN ROOM AND TERMINATE ABOVE MOP BASIN.
19 1" CW DOWN TO SERVE WATER CLOSET.
20 8" WASTE STANDPIPE FOR POOL BACKWASH. SEE POOL DRAWINGS FOR ADDITIONAL INFORMATION.
21 1/2" HWR FROM LAVATORY.
22 GAS REGULATOR - SIZE FOR:
CAPACITY: 2,061,000 BTUH
INLET PRESSURE: 2 PSI
OUTLET PRESSURE: 14"w.c.
23 1-1/2"CW DOWN. EXTEND TO POOL EQUIPMENT BUILDING.
24 6" STORM DOWN IN CHASE.
25 1-1/2" PUMPED WASTE DOWN AND TERMINATE WITH AIR GAP ABOVE 8" OPEN SITE DRAIN STANDPIPE.
26 1-1/2"CW MAKE-UP TO EXTEND AND CONNECT TO POOL EQUIPMENT. DESIGN AND LOCATION BY OTHERS.
27 6" WASTE STANDPIPE FOR POOL BACKWASH. SEE POOL DRAWINGS FOR ADDITIONAL INFORMATION.

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Aquatics Center

FIRST FLOOR PLUMBING PLAN

P101

P101_FIRST FLOOR PLUMBING PLAN
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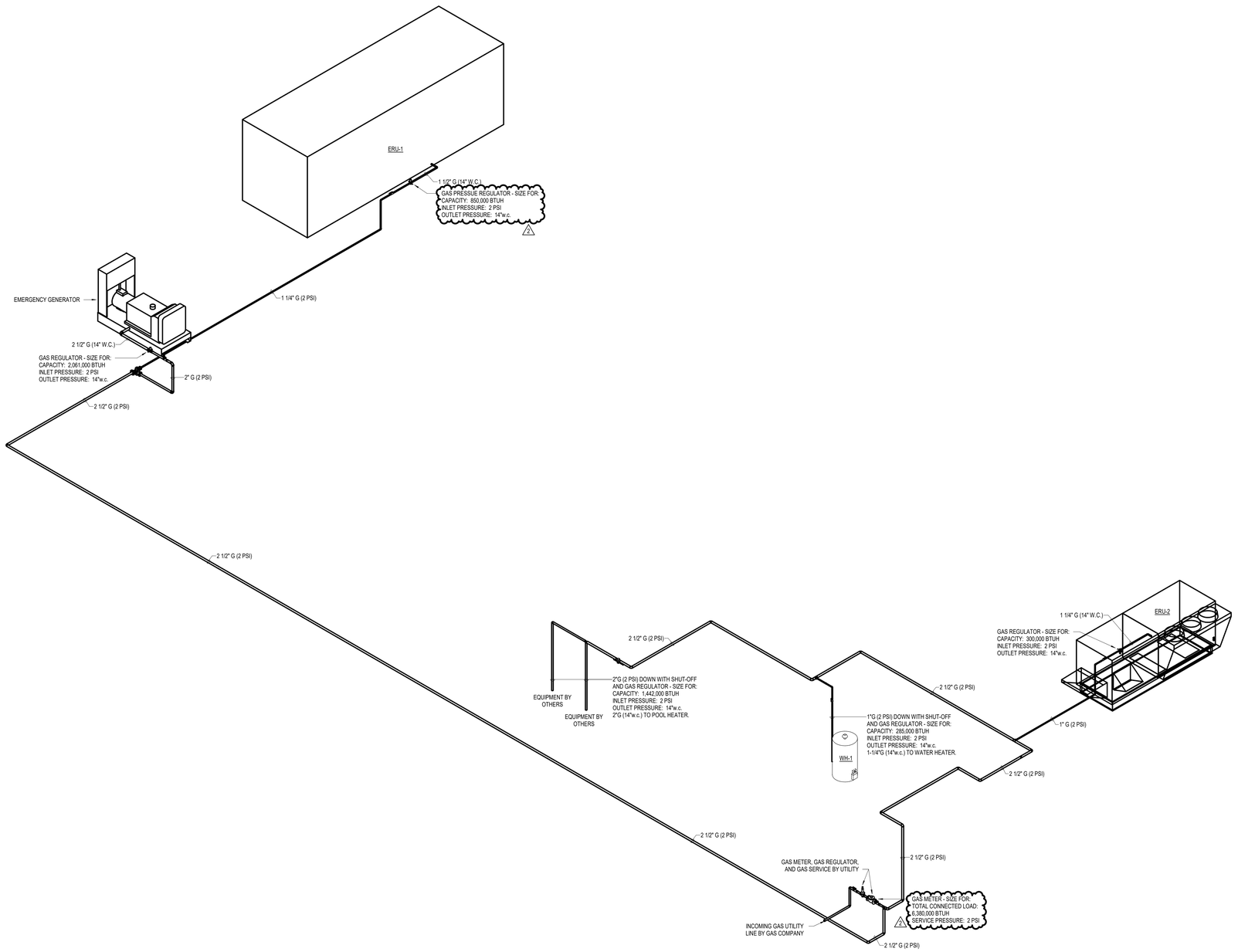

1 GAS PIPING DIAGRAM

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Project No. 2021-178.RVI
Project Date 12.05.2022
Produced ABT ABT

JOYCE ELLEN JONES
REGISTERED
No. PE60920263
STATE OF INDIANA
PROFESSIONAL ENGINEER

#	Revision	Date
	Addendum #1	01/05/2023
	Addendum #3	01/31/2023

5640 N Illinois St
Indianapolis, IN 46208

KEY PLAN

N

The Riviera Club

Aquatics Center

GAS PIPING DIAGRAM

P903

P903_GAS PIPING DIAGRAM
2021-178.RVI_The Riviera Club_Aquatics Center_
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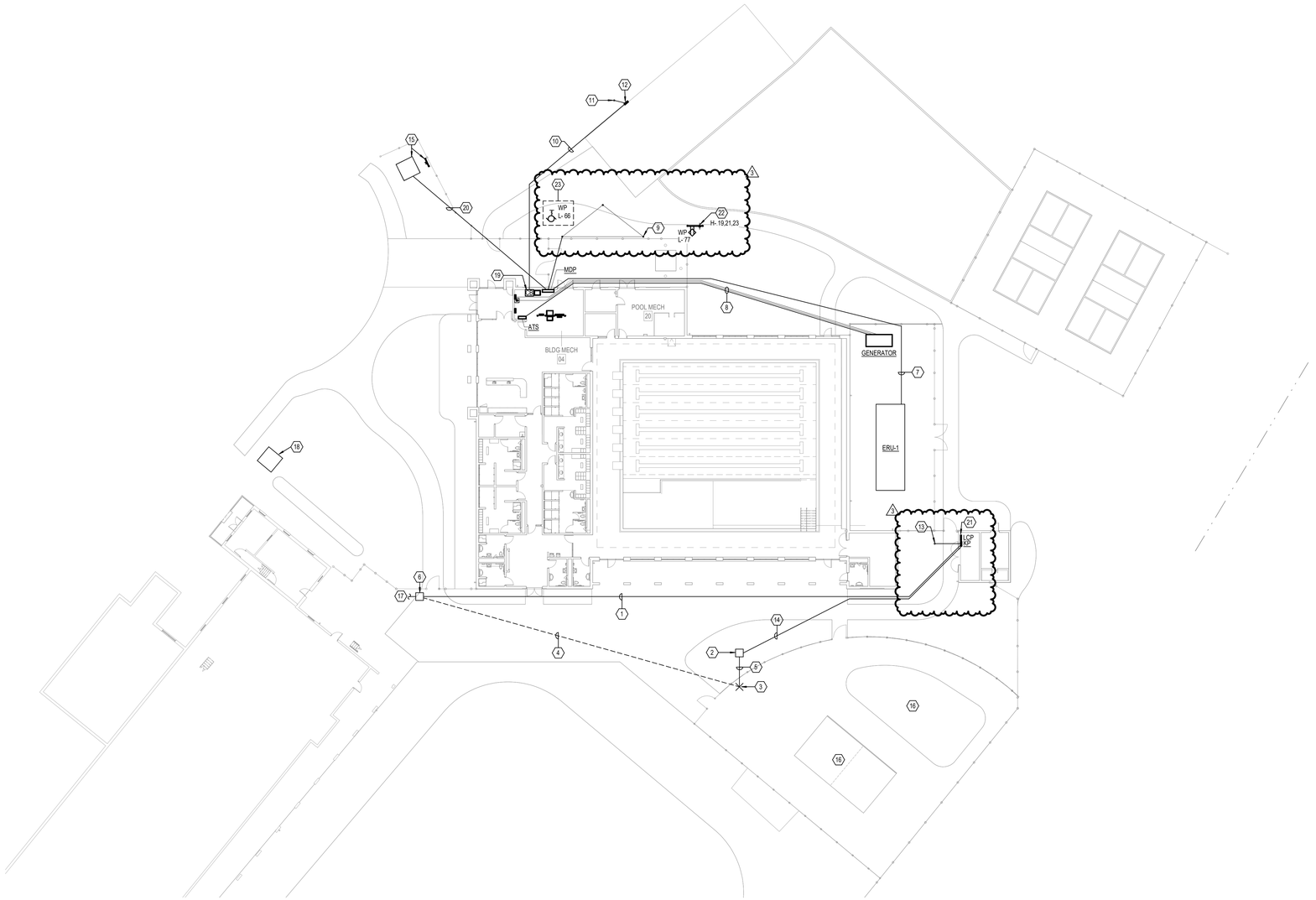

1 ELECTRICAL SITE PLAN
1" = 20'-0"

SHEET KEYNOTES

1 PROVIDE 2-1/2" CONDUIT FROM HANDHOLE ESTABLISHED IN THE DEMOLISHION PHASE TO NEW PANEL WITHIN SPLASH PADKIDDIE POOL EQUIPMENT ROOM. PROVIDE NEW WIRING TO NEW PANEL FROM EXISTING BREAKER SERVING DEMOLISHED PANEL, CIRCUIT SHALL CONSIST OF (4) #3/0, #6 G.

2 IN DEMOLITION PHASE OF CONSTRUCTION PROVIDE 36" L x 36" W x 30" D, POLYMER CONCRETE, OPEN BASE HANDHOLE FOR CONSOLIDATION POINT FOR EXISTING CIRCUITS FROM DEMOLISHED PANEL ON UNISTRUT. BASIS OF DESIGN HUBBELL QUAZITE HANDHOLE. PROVIDE LABEL ON LID OF HANDHOLE TO READ "POWER". LOCATION OF HANDHOLE IS SHOWN APPROXIMATLY BUT SHALL BE IN GRASSY AREA OUTSIDE OF KIDDIE POOL ENCLOSURE SIMILAR TO SHOWN. PROVIDE PROTECTION FOR EXISTING CONDUITS AND HANDHOLE THROUGH CONSTRUCTION TO MAINTAIN MATERIAL INTEGRITY.

3 LOCATION OF EXISTING EXTERIOR UNISTRUT MOUNTED PANEL AND LIGHTING CONTACTOR SERVING EXISTING KIDDY POOL MECHANICAL SHED AND EXTERIOR POOL LIGHTING. PANEL TO BE DEMOLISHED DURING SITE PREPERATION PHASE. CONDUITS FOR PANEL SHALL BE EXTENDED AS NOTED BY SEPARATE KEYNOTE. WIRE FROM PANEL SHALL BE REMOVED BACK TO FIRST DEVICE OF CIRCUIT TO BE REPLACED BY NEW WHEN CIRCUITS ARE REFED FROM PANEL KP AND ASSOCIOATED LIGHTING CONTROL PANEL. ANY CIRCUITS (CONDUIT AND WIRE) FROM PANEL TO LOADS WITHIN EXISTING KIDDY POOL SHEDS OR LOADS THAT ARE BEING REMOVED AS NOTED BY OTHERS ARE TO BE DEMOLISHED WITH ASSOCIATED LOADS.

4 CONDUIT FOR EXISTING UNISTRUT MOUNTED PANEL FROM EXISTING BUILDING TO BE DEMOLISHED FROM PANEL TO HANDHOLE AS SHOWN. AT HANDHOLE CONDUIT TO BE MODIFIED TO STUB UP INTO HANDHOLE. WIRE FOR SERVICE TO PANEL SHALL BE COMPLETELY REMOVED.

5 CONDUITS FOR CIRCUITS OF THE UNISTRUT PANEL TO BE DEMOLISHED THAT ARE TO REMAIN PER THE PANEL'S KEYNOTE SHALL BE DEMOLISHED DOWN TO FIRST BELOW GRADE STRAIGHT HORIZANTAL SECTION. FROM NEW END OF CONDUIT, CONDUIT SHALL BE EXTEDED TO HANDHOLE AS SHOWN AND STUBBED UP INTO ASSOCIATED HANDHOLE TO BE USED AS A JUCTION POINT FOR REFEED TO EXISTING LOADS.

6 IN DEMOLITION PHASE OF CONSTRUCTION PROVIDE 24" L x 24" W x 30" D, POLYMER CONCRETE, OPEN BASE HANDHOLE FOR JUNCTION POINT FOR NEW KP PANEL FEEDER. BASIS OF DESIGN HUBBELL QUAZITE HANDHOLE. PROVIDE LABEL ON LID OF HANDHOLE TO READ "POWER". LOCATION OF HANDHOLE IS SHOWN APPROXIMATLY BUT SHALL BE IN GRASSY AREA, OUTSIDE OF POOL ENCLOSURE, AND ALONG FEEDER PATH TO EXISTING UNISTRUT MOUNTED PANEL, SIMILAR TO SHOWN. PROVIDE PROTECTION FOR EXISTING CONDUITS AND HANDHOLE THROUGH CONSTRUCTION TO MAINTAIN MATERIAL INTEGRITY.

7 APPROXIMATE ROUTING OF FEEDER FROM PANEL MDP TO ERU-1. ROUTING SHALL AVOID GOING UNDER GENERATOR AND BUILDING EXCEPT WITHIN MECHANICAL ROOM AS REQUIRED.

8 APPROXIMATE ROUTING OF FEEDER FROM GENERATOR TO ATS. ADDITIONALLY, CONTROL CONDUITS FOR ESTOP AND ANNUNCIATOR PANEL ARE TO BE ROUTED PARRALLEL WITH FEEDER BETWEEN GENERATOR AND ATS. ROUTING SHALL AVOID GOING BUILDING TO THE EXCEPT WITHIN MECHANICAL ROOM ATS IS IN.

9 PROVIDE BUILDING GROUNDING TRIAD WITHIN GRASSY AREA AS SHOWN. ARROW SHOWN INDICATES TYPICAL GROUND ROD.

10 APPROXIMATE ROUTING FOR NEW FEEDER TO EXISTING PANEL ON RIVIERA PAVILLION. REFER TO RISER DIAGRAM FOR FUTHER FEEDER INFORMATION.

11 PROVIDE REMOTE BUILDING GROUND ROD FOR EXISTING PANEL IN GRASSY AREA AS SHOWN.

12 EXISTING PANEL NOTED AS PANEL EX ON RISER DIAGRAM. ENSURE EXISTING PANEL HAS A NEUTRAL TO GROUND CONNECTION. IF PANEL DOES NOT HAVE NEUTRAL TO GROUND CONNECTION CREATE NEUTRAL TO GROUND CONNECTION. IF REQUIRED TO MAKE NEUTRAL TO GROUND CONNECTION REPLACE MAIN CIRCUIT BREAKER WITH SERVICE ENTRY RATED 125A/SP BREAKER COMPATIBLE WITH PANEL. PANEL IS SEIMENS P1X30MC250AT. EXISTING CONDUIT FEED SHALL BE ABANDONED AND MODIFIED TO ALLOW FOR NEW FEED PER RISER DIAGRAM.WIRE OF EXISTING FEED SHALL BE REMOVED.

13 PROVIDE REMOTE BUILDING GROUND ROD FOR NEW PANEL KP IN GRASSY AREA AS SHOWN.

14 EXTEND EXISTING LOAD CONDUITS FROM THE DEMOLISHED UNISTRUT MOUNTED PANEL TO NEW PANEL KP. USING RENOVATED CONDUIT PATHS PROVIDE WIRE TO EXIKSTING LOADS UTILIZE (2) #10, #10 G. TO FEED ALL 20A/1 POLE CIRCUITS REMAINING. FOR ANY LOADS REMAINING OF HIGHER APPERAGE OR POLE COUNT SUBMIT RFI FOR ENGINEER SHOWING LOAD LOCATION AND LOAD NAMEPLATE INFORMATION FOR ASSOCIATED WIRE SIZE.

15 NEW UTILITY TRANSFORMER AND UNISTRUT MOUNTED METER. PROVIDE TRANSFORMER PAD PER AES STANDARDS. COORDINATE WITH AES FOR ANY ADDITIONAL ROUGH IN REQUIREMENTS.

16 PRIOR TO EXCAVATION SITEWORK ELECTRICAL CONTRACTOR SHALL CONFIRM THAT NO EXISTING TO REMAIN CONDUITS/CIRCUITS ARE WITHIN 5' FOOTPRINT OF WATER FEATURE. IF THERE ARE CONDUITS IN SUCH SENERIO CONTACT ENGINEER FOR DIRECTION.

17 TO PANEL AND BREAKER WITHIN EXISTING BUILDING PREVIOUSLY SERVING EXTERIOR UNISTRUT PANEL.

18 EXISTING UTILITY TRANSFORMER TO REMAIN

19 ENCLOSED CIRCUIT BREAKER FOR PAVILION PANEL EX. PROVIDE AS NOTED ON ELECTRICAL RISER DIAGRAM.

20 APPROXIMATE ROUTING OF SECONDARY FROM UTILITY TRANSFORMER TO MDP. PROVIDE AS NOTED ON ELECTRICAL RISER DIAGRAM.

21 REUSE EXISTING LIGHTING CONTROL PANEL PREVIOUSLY ON EXTERIOR UNISTRUT RACK. RECONNECT CIRCUITS AS THEY WERE PRIOR TO DEMOLITION.

22 PROVIDE 6' x 6' STAINLESS STEEL UNISTRUT SUPPORT AT EDGE OF LIFT STATION SLAB. UNISTRUT SHALL SUPPORT LIFT STATION CONTROL PANEL AND ASSOCIATED ACCESSORIES AS REQUIRED. TOP OF UNISTRUT RACK POST SHALL BE PROVIDED WITH CAP TO PROVIDE WATERTIGHT SEAL. PROVIDE POWER CIRCUIT TO LIFT STATION CONTROL PANEL BY (4) #12, #12G. IN 1" CONDUIT. PROVIDE CONDUIT AND WIRE INTERCONNECTIONS FROM LIFT STATION CONTROLLER TO LIFT STATION COMPONENTS PER CONTROLLER MANUFACTURER INSTRUCTIONS AND CIVIL DRAWINGS.

23 PROVIDE ELECTRICAL CONNECTION TO 120V SINGLE POLE 10A BACKFLOW VAULT SUMP PUMP. PROVIDE A 20A SINGLE POLE TOGGLE SWITCH IN WEATHERPROOF ENCLOSURE AS EQUIPMENT DISCONNECTING MEANS. CIRCUIT SHALL BE 2 #12, #12G IN 1" CONDUIT. COORDINATE EXACT EQUIPMENT LOCATION PRIOR TO ROUGH-IN. COORDINATE WITH SITE CONTRACTOR TO CONFIRM SIZE OF SUMP PUMP. IF ELECTRICAL CHARICTERISTICS OF PUMP DIFFER FROM LISTED IN NOTE ABOVE PROVIDE ENGINEER WITH CHARICTERISTICS AND ALTERNITIVE INSTALLATION SOLUTION FOR APPROVAL.

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5640 N Illinois St
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KEY PLAN

The Riviera Club

Aquatics Center

ELECTRICAL SITE PLAN

E101

E101 - ELECTRICAL SITE PLAN
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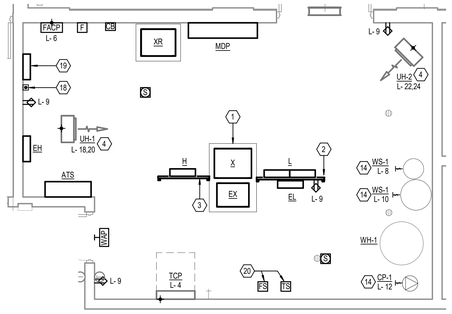
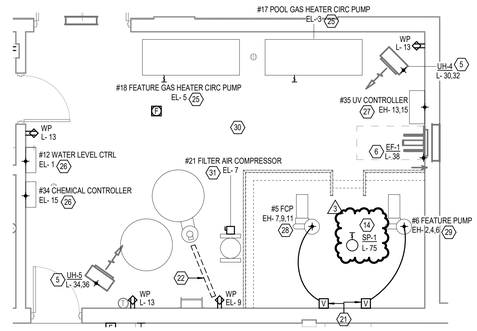


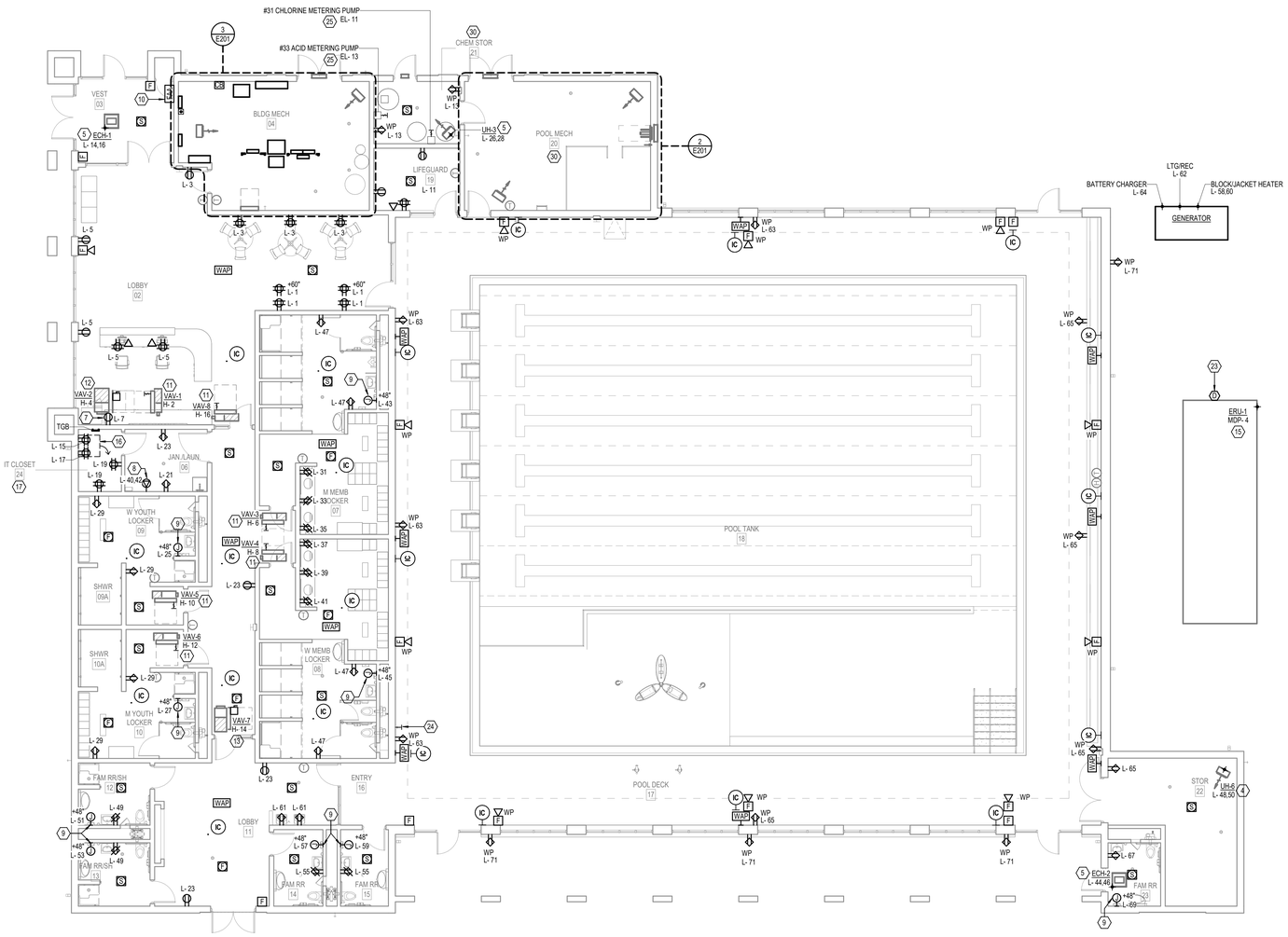
3 ENLARGED ELECTRICAL ROOM

1/4" = 1'-0"



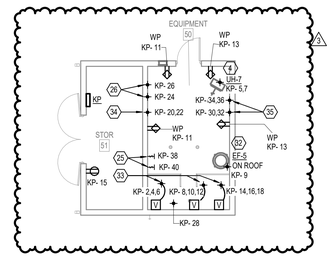
2 ENLARGED POOL MECHANICAL

1/4" = 1'-0"



1 FIRST FLOOR ELECTRICAL PLAN

1/8" = 1'-0"



GENERAL NOTES

A REFER TO SHEET E-000 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.

B CIRCUIT DESIGNATION AT THE CENTER OF THE ROOM OR BELOW ROOM TAG SIGNIFIES THAT ALL DEVICES WITHIN THAT SPACE ARE TO BE ON NOTED CIRCUIT.

C ALL RECEPTACLES WITHIN PROJECT SHALL BE TAMPER RESISTANT TYPE.

D COORDINATE ALL POOL EQUIPMENT LOCATIONS WITH POOL CONTRACTOR. MODIFY POWER FEEDS AND LOCAL DISCONNECT LOCATIONS PER POOL CONTRACTOR COORDINATION.

E ALL WIRE NOTATIONS FOR FLOORPLANS ARE FOR COPPER WIRE UNLESS NOTED OTHERWISE. 3

SHEET KEYNOTES

1 PROVIDE 4" TALL EQUIPMENT PAD FOR EQUIPMENT AS SHOWN. DIMMSIONS OF PAD SHALL EXTEND 4" PAST THE EXTENT OF EQUIPMENT FOOTPRINT.

2 PROVIDE 6'-6" TALL, 4'-6" WIDE, DOUBLE SIDED, FLOOR MOUNTED SECTION OF ALUMINUM UNISTRUT RACK. PROVIDE HORIZANTAL SUPPORTS AS REQUIRED TO SUPPORT ELEMENTS AS SHOWN.MOUNT UNISTRUT DIRECTLY ADJACENT TO TRANSFORMER EQUIPMENT PAD.

3 PROVIDE 6'-6" TALL, 3'-4" WIDE, DOUBLE SIDED, FLOOR MOUNTED SECTION OF ALUMINUM UNISTRUT RACK. PROVIDE HORIZANTAL SUPPORTS AS REQUIRED TO SUPPORT ELEMENTS AS SHOWN.MOUNT UNISTRUT DIRECTLY ADJACENT TO TRANSFORMER EQUIPMENT PAD.

4 PROVIDE ELECTRICAL CONNECTION TO 208V 2 POLE MECHANICAL EQUIPMENT WITH INTERGRAL DISSCONNECTING MEANS. CIRCUIT SHALL BE 2 #12, #12G IN ¾" CONDUIT.

5 PROVIDE ELECTRICAL CONNECTION TO 208V 2 POLE MECHANICAL EQUIPMENT WITH INTERGRAL DISSCONNECTING MEANS. CIRCUIT SHALL BE 2 #10, #10G IN ½" CONDUIT.

6 PROVIDE ELECTRICAL CONNECTION TO 120V SINGLE POLE MECHANICAL EQUIPMENT WITH INTERGRAL DISCONNECTING MEANS. CIRCUIT SHALL BE 2 #12, #12G IN ¾" CONDUIT.

7 INSTALL RECEPTACLE SO THAT IT IS FLUSH WITH BACK OF CASEWORK. PROVIDE GROMMETED HOLE ON SIDE OF CASEWORK FOR PATHWAY FOR CORDED CONNECTION OF REFRIGERATED MERCHANDISER. RECEPTACLE SHALL BE DEDICATED TO REFRIGERATED MERCHANDISER.

8 PROVIDE NEMA 14-30R FOR CLOTHES DRYER. CIRCUIT TO RECEPTACLE SHALL BE 3 #10, #10G IN ¾" CONDUIT.

9 PROVIDE DEDICATED 20A ELECTRICAL CONNECTION FOR HAND DRYER PROVIDED BY OTHERS. CIRCUIT TO HAND DRYER SHALL BE 2#12, #12 G. IN ¾" CONDUIT.

10 FIRE ALARM ANNUNCIATOR PANEL SHALL BE RECESS MOUNTED SO THAT FLUSH WITH WALL.

11 PROVIDE ELECTRICAL CONNECTION TO 277V SINGLE POLE MECHANICAL EQUIPMENT. PROVIDE A 20A SINGLE POLE TOGGLE SWITCH AS EQUIPMENT DISCONNECTING MEANS. CIRCUIT SHALL BE 2 #12, #12G IN 3/4" CONDUIT.

12 PROVIDE ELECTRICAL CONNECTION TO 277V SINGLE POLE MECHANICAL EQUIPMENT. PROVIDE A 60A/1PN1 NON-FUSED DISCONNECT SWITCH AS EQUIPMENT DISCONNECTING MEANS. CIRCUIT SHALL BE 2 #6, #10G IN 1" CONDUIT.

13 PROVIDE ELECTRICAL CONNECTION TO 277V SINGLE POLE MECHANICAL EQUIPMENT. PROVIDE A 20A SINGLE POLE TOGGLE SWITCH AS EQUIPMENT DISCONNECTING MEANS. CIRCUIT SHALL BE 2 #12, #12G IN 3/4" CONDUIT.

14 PROVIDE ELECTRICAL CONNECTION TO 120V SINGLE POLE PLUMBING EQUIPMENT. PROVIDE A 20A SINGLE POLE TOGGLE SWITCH AS EQUIPMENT DISCONNECTING MEANS. CIRCUIT SHALL BE 2#12, #12G IN 3/4" CONDUIT.

15 PROVIDE ELECTRICAL CONNECTION TO 480V 3 POLE MECHANICAL EQUIPMENT WITH INTERGRAL DISCONNECTING MEANS. CIRCUIT SHALL BE 4 #250, #4G IN 3" CONDUIT FED UNDERGROUND ALONG THE PERIMETER OF THE BUILDING AS NOTED ON SITE PLAN. 3

16 [illegible] PROVIDE HINGING SO THAT RACKK WILL SWING AS SHOWN BY ARROW.

17 ENTIRETY OF ROOM FROM 1' AFF TO 1' BELOW FINISHED CEILING SHALL BE COVERED BY ½" PLYWOOD PAINTED IN FIRE RETARDANT PAINT. ALL DEVICES SHALL BE MOUNTED SO THAT FLUSH WITH PLYWOOD.

18 GENERATOR REMOTE STOP EPO. PROVIDE CONNECTIONS PER GENERATOR NOTES DETAIL.

19 GENERATOR ANNUNCIATOR PANEL. PROVIDE CONNECTIONS PER GENERATOR NOTES DETAIL.

20 PROVIDE TAMPER AND FLOW SWITCHES FOR FIRE PROTECTION RISER. PROVIDE INTERCONNECTION FROM EACH SWITCH TO FACP. COORDINATE QUANITY AND LOCATIONS OF TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION CONTRACTOR AND PROVIDE QUANTITY PER FIRE PROTECTION CONTRACTOR COORDINATION.

21 VFD FURNISHED BY OTHERS INSTALLED BY ELECTRICAL CONTRACTOR. ALL ASSOCIATED CONNECTIONS TO BE BY ELECTRICAL CONTRACTOR.

22 PROVIDE 2 CHANNEL HEAVY DUTY CABLE PROTECTOR FOR CABLE PATHWAY BETWEEN DEDICATED RECEPTACLE AND REGENERATIVE FILTER VACUUM TRANSFER UNIT AS SHOWN BY DASHED LINES. BASIS OF DESIGN IS ULINE H-9437 2 CHANNEL CABLE PROTECTOR.

23 PROVIDE WEATHER PROOF DUCT DETECTOR ON RETURN DUCT IN LOCATION SHOWN ON MECHANICAL DRAWINGS. PROVIDE INTERCONNECTION TO FACP.

24 PROVIDE LOW VOLTAGE DIAL STYLE TIMER SWITCH WITH STAINLESS STEEL FACEPLATE AND PLASTIC DIAL TO BE INTERCONNECTED WITH RELAY TO CONTROL POOL THERAPY JETS. PROVIDE WITH LOCKABLE OPAQUE ENCLOSURE.

25 PROVIDE ELECTRICAL CONNECTION TO 120V SINGLE POLE POOL EQUIPMENT. PROVIDE A 20A SINGLE POLE COMBONATION MOTOR STARTER DISCONNECT AS EQUIPMENT DISCONNECTING MEANSAND STARTING METHOD. CIRCUIT SHALL BE 2 #12, #12G IN 3/4" CONDUIT.

26 PROVIDE ELECTRICAL CONNECTION TO 120V SINGLE POLE POOL EQUIPMENT WITH INTERGRAL DISCONNECTING MEANS. CIRCUIT SHALL BE 2 #8, #10G IN ¼" CONDUIT.

27 PROVIDE ELECTRICAL CONNECTION TO 480V TWO POLE POOL EQUIPMENT WITH INTERGRAL DISCONNECTING MEANS. CIRCUIT SHALL BE 3 #8, #10G IN ¼" CONDUIT.

28 PROVIDE ELECTRICAL CONNECTION TO 480V THREE POLE POOL EQUIPMENT WITH VFD WITH DISCONNECTING MEANS. VFD TO BE PROVIDED BY OTHERS CONNECTIONS BETWEEN EQUIPMENT VFD AND PANEL TO BE BY ELECTRICAL CONTRACTOR. CIRCUIT SHALL BE 3 #6, #10G IN 1" CONDUIT.

29 PROVIDE ELECTRICAL CONNECTION TO 480V THREE POLE POOL EQUIPMENT WITH VFD WITH DISCONNECTING MEANS. VFD TO BE PROVIDED BY OTHERS CONNECTIONS BETWEEN EQUIPMENT VFD AND PANEL TO BE BY ELECTRICAL CONTRACTOR. CIRCUIT SHALL BE 3 #8, #10G IN 1" CONDUIT.

30 EQUIPMENT SHOWN WITHIN ROOM IS SHOWN AS REFERENCE ONLY. COORDINATE EXACT EQUIPMENT LOCATIONS WITH POOL EQUIPMENT CONTRACTOR PRIOR TO ROUGH IN.

31 PROVIDE ELECTRICAL CONNECTION TO 120V SINGLE POLE POOL EQUIPMENT. PROVIDE A 60A SINGLE POLE, NEMA 4X SS, NON-FUSED DISCONNECT AS EQUIPMENT LOCAL DISCONNECTING MEANS. CIRCUIT SHALL BE 2 #6, #10G IN 1" CONDUIT.

32 PROVIDE ELECTRICAL CONNECTION TO 120V SINGLE POLE MECHANICAL EQUIPMENT WITH INTERGRAL DISCONNECTING MEANS. CIRCUIT SHALL BE 2 #12, #12G IN ¾" CONDUIT.

33 PROVIDE ELECTRICAL CONNECTION TO 120V SINGLE POLE MECHANICAL EQUIPMENT WITH INTERGRAL DISCONNECTING MEANS. CIRCUIT SHALL BE 2 #12, #12G IN ¾" CONDUIT.

34 PROVIDE ELECTRICAL CONNECTION TO 208V TWO POLE POOL EQUIPMENT WITH INTERGRAL DISCONNECTING MEANS. CIRCUIT SHALL BE 3 #3, #8G IN 1-1/2" CONDUIT.

35 PROVIDE ELECTRICAL CONNECTION TO 208V TWO POLE POOL EQUIPMENT WITH INTERGRAL DISCONNECTING MEANS. CIRCUIT SHALL BE 2 #12, #12G IN 3/4" CONDUIT.

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Joyce Ellen Jones

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Indianapolis, IN 46208

KEY PLAN N

The Riviera Club

Aquatics Center

FIRST FLOOR ELECTRICAL PLAN

E201

E201 - FIRST FLOOR ELECTRICAL PLAN
2021-178.RVI_The Riviera Club_Aquatics Center_
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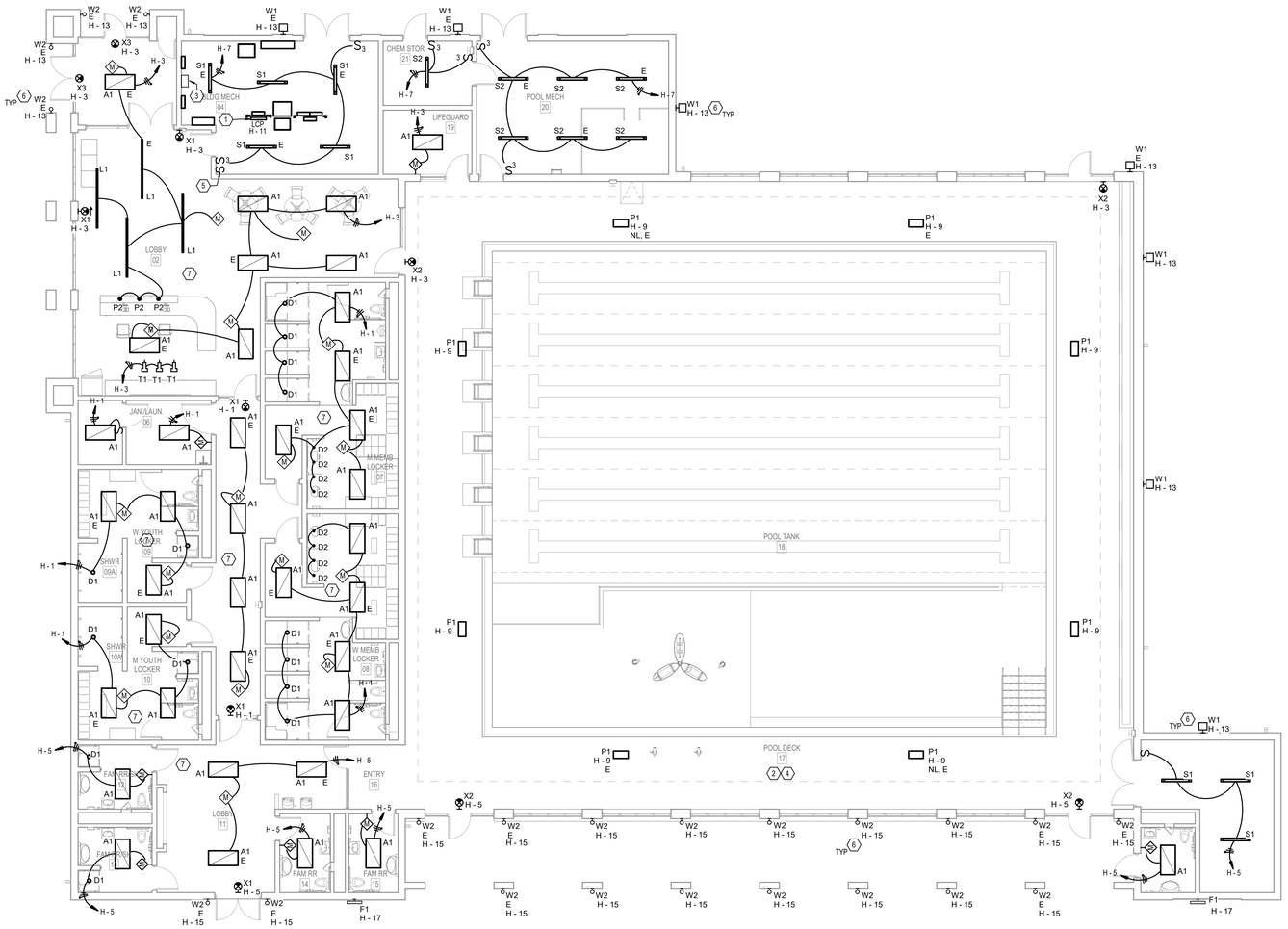

1 FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"

GENERAL NOTES

A ANY LIGHT FIXTURE WITH AN "E" DESIGNATION SHALL BE PROVIDED WITH INTEGRAL MANUFACTURER INSTALLED EMERGENCY BATTERY BACKUP UNLESS NOTED OTHERWISE.

B "NL" SYMBOL REPRESENTS NIGHT LIGHT AND SHOULD REMAIN ALWAYS ON.

SHEET KEYNOTES

1 PROVIDE RELAY BASED LIGHTING CONTROL PANEL WITH ALL DIMMABLE RELAYS. RELAY PANEL SHALL HAVE MINIMUM OF 6 SPARE RELAYS. PROVIDE RELAY PANEL SCHEDULE WITHIN DOOR PANEL. PROVIDE SCHEDULE AND ZONING DIAGRAM FOR LCP IN RELAY BASED LIGHTING CONTROL SUBMITTAL.

2 ALL EMERGENY FIXTURES WITHIN SPACE SHALL HAVE EMERGENCY FEED FROM CENTRAL INVERTER LOCATED IN ELECTRICAL ROOM.

3 PROVIDE CENTRAL INVERTER AT 6' AFF FOR EMERGENCY FEED TO FIXTURES AS NOTED ELSEWHERE. BASIS OF DESIGN FOR INVERTER IS IOTA 550 HE.

4 ROOM FIXTURE LIGHTING CONTROL SHALL BE BY LIGHTING CONTROL PANEL. PROVIDE 5 BLINK WARNING 5 MINUTES BEFORE FIXTURES ARE TO TURN OFF. PROVIVE MOMENTARY CONTACT SWITCH FOR OFF HOURS OPERATION. MOMENTARY SWITCH TO TURN ROOM LIGHTING ON FOR ONE HOUR. SWITCH SHALL BE LOCATED WITHIN ELECTRICAL ROOM.

5 MOMENTARY CONTACT SWITCH FOR POOL SPACE LIGHTING.

6 EXTERIOR LIGHTING SHALL BE CONTROLLED BY LIGHTING CONTROL PANEL. PROVIDE PHOTOCELL OVERRIDE CONTROL DURING OPERATING HOURS.

7 SPACE SHALL BE CONTROLLED BY LIGHTING CONTROL PANEL. DURRING OFF HOURS LIGHTING CONTROL SHALL BE BY OCCUPANCY SENSORS.

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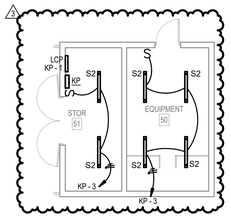

The Riviera Club

Aquatics Center

FIRST FLOOR LIGHTING

E301

Branch Panel: L

Location: BLDG MECH-1 8-1 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 30,000
Supply From: X | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE, UNISTRUT | **Wires:** 4 | **Mains Rating:** 250 A
Enclosure: NEMA 1 | **MCB Rating:** 250 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPT: LOBBY	20 A	1	1440	0					1	20 A	SPARE	2
3	RECEPT: ENTRY VEST, LOBBY	20 A	1			1260	180			1	20 A	MECHANICAL CONTROLLER TCP	4
5	RECEPT: LOBBY DESK	20 A	1					1080	180	1	20 A	FACP	6
7	RECEPT: LOBBY FRIDGE	20 A	1	180	200					1	20 A	WATER SOFTENER WS-1	8
9	RECEPT: BLDG MECH	20 A	1			720	200			1	20 A	WATER SOFTENER WS-1	10
11	RECEPT: LIFEGUARD	20 A	1					720	0	1	20 A	CIRCULATION PUMP CP-1	12
13	RECEPT: CHEM STORAGE, POOL MECH	20 A	1	900	1997					2	25 A	HVAC: ECH-1	14
15	RECEPT: IT EQUIPMENT	20 A	1			1500	1997						16
17	RECEPT: IT EQUIPMENT	20 A	1					1500	1500	2	20 A	HVAC: UH-1	18
19	RECEPT: IT CLOSET	20 A	1	720	1500								20
21	RECEPT: CLOTHES WASHER	20 A	1			1300	1500			2	20 A	HVAC: UH-2	22
23	RECEPT: JANITOR, LOBBY, CORRIDOR	20 A	1					720	1500				24
25	W YOUTH LOCKER HAND DRYER	20 A	1	1200	1737					2	25 A	HVAC: UH-3	26
27	M YOUTH LOCKER HAND DRYER	20 A	1			1200	1737						28
29	RECEPT: YOUTH LOCKERS	20 A	1					720	1737	2	25 A	HVAC: UH-4	30
31	RECEPT: M MEMBER VANITY	20 A	1	180	1737								32
33	RECEPT: M MEMBER VANITY	20 A	1			180	1737			2	25 A	HVAC: UH-5	34
35	RECEPT: M MEMBER VANITY	20 A	1					180	1737				36
37	RECEPT: W MEMBER VANITY	20 A	1	180	1176					1	15 A	HVAC: EF-1	38
39	RECEPT: W MEMBER VANITY	20 A	1			180	3120			2	30 A	RECEPT: CLOTHES DRYER	40
41	RECEPT: W MEMBER VANITY	20 A	1					180	3120				42
				Total Load:		20887 VA		27531 VA		24326 VA			
				Total Amps:		174 A		234 A		207 A			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	30352 VA	100.00%	30352 VA		
RECEPT	25480 VA	69.62%	17740 VA	Total Conn. Load:	72744 VA
Miscellaneous Power	16912 VA	100.00%	16912 VA	Total Est. Demand:	65004 VA
				Total Conn.:	202 A
				Total Est. Demand:	180 A

Notes:
DOUBLE TUB PANEL SECOND SECTION CONTINUED ON PANEL SCHEDULE L WITH CIRCUIT NUMBERS 42-84. LOAD CALCULATION SHOWN ON THIS PANEL ACCOUNTS FOR SECOND SECTION LOAD.

Branch Panel: H

Location: BLDG MECH-1 8-1 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 42,000
Supply From: MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: SURFACE, UNISTRUT | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: NEMA 1 | **MCB Rating:** 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LIGHTING: LOCKER ROOMS	20 A	1	1177	701					1	15 A	HVAC: VAV-1	2
3	LIGHTING: FRONT LOBBY	20 A	1			617	12099			1	50 A	HVAC: VAV-2	4
5	LIGHTING: AUXILLRY LOBBY	20 A	1					476	2800	1	15 A	HVAC: VAV-3	6
7	LIGHTING: BACK OF HOUSE	20 A	1	417	2800					1	15 A	HVAC: VAV-4	8
9	LIGHTING: POOL LIGHITNG	20 A	1			3480	2100			1	20 A	HVAC: VAV-5	10
11	LIGHTING BLDG MECH-1 8-1	20 A	1					0	2100	1	20 A	HVAC: VAV-6	12
13	LIGHTING:EXTERIOR N+E	20 A	1	486	6800					1	40 A	HVAC: VAV-7	14
15	LIGHTING: EXTERIOR SOUTH	20 A	1			396	2399			1	15 A	HVAC:VAV-8	16
17	LIGHTING: POOL EXTERIOR	20 A	1					148	0	1	20 A	SPARE	18
19					733	0				1	20 A	SPARE	20
21	LIFT STATION CONTROL PANEL	20 A	3			733	0			1	20 A	SPARE	22
23								733	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	0					1	20 A	SPARE	26
27	SPARE	20 A	1			0	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
31	SPARE	20 A	1	0	0					1	20 A	SPARE	32
33	SPARE	20 A	1			0	0			1	20 A	SPARE	34
35	SPARE	20 A	1					0	--	1	--	SPACE	36
37	SPARE	20 A	1	0	--					1	--	SPACE	38
39	SPARE	20 A	1			0	--			1	--	SPACE	40
41	SPARE	20 A	1					0	--	1	--	SPACE	42
				Total Load:		13115 VA		21824 VA		6257 VA			
				Total Amps:		51 A		83 A		23 A			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	31800 VA	100.00%	31800 VA		
LIGHTING	7196 VA	125.00%	8995 VA	Total Conn. Load:	41196 VA
Miscellaneous Power	2200 VA	100.00%	2200 VA	Total Est. Demand:	42995 VA
				Total Conn.:	50 A
				Total Est. Demand:	52 A

Notes:

Switchboard: MDP

Location: BLDG MECH-1 8-1 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 65,000
Supply From: | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 1200 A
Enclosure: NEMA 1 | **MCB Rating:** 1200 A

Notes:

CKT	Circuit Description	# of Poles	Trip Rating	Load	Remarks
1	SPD TYPE 1	3	60 A	0 VA	REFER TO NOTE 1 IN NOTES SECTION
2	PANEL H	3	100 A	41196 VA	
3	HVAC: ERU-2	3	250 A	203595 VA	
4	HVAC: ERU-1	3	250 A	203595 VA	
5	HVAC: ERU-3	3	70 A	0 VA	
6	TRANSFORMER XR	3	70 A	0 VA	
7	TRANSFORMER X	3	125 A	72744 VA	
8	SPARE	1	250 A	0 VA	
9	SPARE	1	400 A	0 VA	
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
				426163 VA	
				513 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	315773 VA	100.00%	315773 VA		
LIGHTING	7196 VA	125.00%	8995 VA	Total Conn. Load:	426163 VA
RECEPT	25660 VA	69.49%	17830 VA	Total Est. Demand:	420132 VA
Miscellaneous Power	77534 VA	100.00%	77534 VA	Total Conn.:	513 A
				Total Est. Demand:	505 A

Notes:
1. COORDINATE BREAKER AMPERAGE WITH SPD MANUFACTURER. PROVIDE BREAKER AMPERAGE PER MANUFACTURER RECOMENDATIONS.

Branch Panel: L

Location: BLDG MECH-1 8-1 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 30,000
Supply From: L | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE, UNISTRUT | **Wires:** 4 | **Mains Rating:** 250 A
Enclosure: NEMA 1 | **MCB Rating:** 250 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
43	M MEMBER LOCKER HAND DRYER	20 A	1	1200	1997					2	25 A	HVAC: ECH-2	44
45	W MEMBER LOCKER HAND DRYER	20 A	1			1200	1997						46
47	RECEPT: MEMBER LOCKERS	20 A	1					720	1508	2	20 A	HVAC: UH-6	48
49	RECEPT: FAMILY RR/SH	20 A	1	360	1508								50
51	FAMILY RR/SH HAND DRYER	20 A	1			1200	528			1	15 A	HVAC: EF-2	52
53	FAMILY RR/SH HAND DRYER	20 A	1					1200	528	1	15 A	HVAC: EF-3	54
55	RECEPT: FAMILY RR	20 A	1	360	696					1	15 A	HVAC: EF-4	56
57	FAMILY RR HAND DRYER	20 A	1			1200	2496			2	30 A	GENERATOR BLOCK HEATER	58
59	FAMILY RR HAND DRYER	20 A	1					1200	2496				60
61	RECEPT: EDF	20 A	1	360	180					1	20 A	GENERATOR LTG/RCPT	62
63	RECEPT: N & W POOL SPACE	20 A	1			720	180					GENERATOR BATTERY CHARGER	64
65	RECEPT: N & E POOL SPACE	20 A	1					900	0	1	20 A	BACKFLOW VAULT SUMP PUMP	66
67	RECEPT: FAMILY RR	20 A	1	180	0								68
69	FAMILY RR HAND DRYER	20 A	1			1200	0			1	20 A	SPARE	70
71	RECEPT: EXTERIOR	20 A	1					720	0	1	20 A	SPARE	72
73	RECEPT: POOL	20 A	1	900	0					1	20 A	SPARE	74
75	POOL SUMP PUMP SP-1	20 A	1			0	0			1	20 A	SPARE	76
77	RECEPT: LIFT STATION	20 A	1					180	0	1	20 A	SPARE	78
79	RECEPT:	20 A	1	0	0					1	20 A	SPARE	80
81	SPARE	20 A	1			0	0			1	20 A	SPARE	82
83	SPARE	20 A	1					0	0	1	20 A	SPARE	84
				Total Load:		7741 VA		10721 VA		9452 VA			
				Total Amps:		65 A		92 A		81 A			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	8762 VA	100.00%	8762 VA		
RECEPT	5400 VA	100.00%	5400 VA	Total Conn. Load:	27914 VA
Miscellaneous Power	13752 VA	100.00%	13752 VA	Total Est. Demand:	27914 VA
				Total Conn.:	77 A
				Total Est. Demand:	77 A

Notes:
DOUBLE TUB PANEL FIRST SECTION SCHEDULE IS ON PANEL SCHEDULE L WITH CIRCUIT NUMBERS 1-42.

Branch Panel: EL

Location: BLDG MECH-1 8-1 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 30,000
Supply From: EX | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE, UNISTRUT | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: NEMA 1 | **MCB Rating:** 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	#12 WATER LEVEL CONTROLLER	45 A	1	3900	0					1	20 A	SPARE	2
3	#17 POOL GAS HEATER CIRC PUMP	20 A	1			1176	0			1	20 A	SPARE	4
5	#18 FEATURE GAS HEATER CIRC PUMP	20 A	1					1176	0	1	20 A	SPARE	6
7	#21 FILTER AIR COMPRESSOR	50 A	1	2880	0					1	20 A	SPARE	8
9	RECEPT: #24 FILTER VACUUM UNIT	20 A	1			180	0			1	20 A	SPARE	10
11	#31 CHLORINE METERING PUMP	15 A	1					100	0	1	20 A	SPARE	12
13	#33 ACID METERING PUMP	15 A	1	100	0					1	20 A	SPARE	14
15	#34 CHEMICAL CONTROLLER	45 A	1			3900	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21													22
23													24
25													26
27													28
29													30
				Total Load:		6880 VA		5256 VA		1276 VA			
				Total Amps:		62 A		49 A		11 A			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	180 VA	100.00%	180 VA		
Miscellaneous Power	13232 VA	100.00%	13232 VA	Total Conn. Load:	13412 VA
				Total Est. Demand:	13412 VA
				Total Conn.:	37 A
				Total Est. Demand:	37 A

Notes:

Branch Panel: KP

Location: STOR 51 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 30,000
Supply From: | **Phases:** 3 | **Mains Type:** MCB
Mounting: | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: | **MCB Rating:** 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LIGHTING: LCP	20 A	1	0	1320								2
3	LIGHTING: EQUIPMENT	20 A	1			204	1320			3	20 A	FEATURE PUMP	4
5	HVAC: UH-7	20 A	2					1508	1320				6
7				1508	1320								8
9	HVAC: EF-5	20 A	1			696	1320			3	20 A	FEATURE PUMP	10
11	RECEPT: EQUIPMENT	20 A	1					360	1320				12
13	RECEPT: EQUIPMENT	20 A	1	360	1320								14
15	RECEPT: STORAGE	20 A	1			180	1320			3	20 A	FEATURE PUMP	16
17	SPARE	20 A	1					0	1320				18
19	SPARE	20 A	1	0	7200					2	90 A	UV CONTROLLER	20
21	SPARE	20 A	1			0	7200						22
23	SPARE	20 A	1					0	3900	1	40 A	CONTROLLER	24
25	SPARE	20 A	1	0	3900					1	40 A	CONTROLLER	26
27	SPARE	20 A	1			0	3960			1	20 A	SUMP PUMP	28
29	SPARE	20 A	1					0	718	2	15 A	CHEM BOOSTER PUMP	30
31	SPARE	20 A	1	0	718								32
33	SPARE	20 A	1			0	718			2	15 A	CHEM BOOSTER PUMP	34
35	SPARE	20 A	1					0	718				36
37	SPARE	20 A	1	0	100					1	15 A	METERING PUMP	38
39	SPARE	20 A	1			0	100			1	15 A	METERING PUMP	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
43	SPARE	20 A	1	0	0					1	20 A	SPARE	44
45	SPARE	20 A	1			0	0			1	20 A	SPARE	46
47	SPARE	20 A	1					0	0	1	20 A	SPARE	48
49	SPARE	20 A	1	0	0					1	20 A	SPARE	50
51	SPARE	20 A	1			0	0			1	20 A	SPARE	52
53	SPARE	20 A	1					0	0	1	20 A	SPARE	54
55	SPARE	20 A	1	0	0					1	20 A	SPARE	56
57	SPARE	20 A	1			0	0			1	20 A	SPARE	58
59	SPARE	20 A	1					0	0	1	20 A	SPARE	60
				Total Load:		17746 VA		17018 VA		11163 VA			
				Total Amps:		155 A		149 A		93 A			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	3712 VA	100.00%	3712 VA		
LIGHTING	204 VA	125.00%	255 VA	Total Conn. Load:	45926 VA
RECEPT	900 VA	100.00%	900 VA	Total Est. Demand:	45977 VA
Miscellaneous Power	41110 VA	100.00%	41110 VA	Total Conn.:	127 A
				Total Est. Demand:	128 A

Notes:

Branch Panel: EH

Location: BLDG MECH-1 8-1 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 42,000
Supply From: ATS | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 200 A
Enclosure: NEMA 1 | **MCB Rating:** 200 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				6880	3730								2
3	TRANSFORMER EX	45 A	3			5256	3730			3	35 A	#6 FEATURE PUMP	4
5								1276	3730				6
7				6213									8
9	#5 FILTER SYSTEM CIRCULATING PUMP (FCP)	60 A	3			6213							10
11								6213					12
13	#35 UV CONTROLLER	40 A	2	7680									14
15						7680							16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
				Total Load:		24503 VA		22879 VA		11219 VA			
				Total Amps:		95 A		89 A		41 A			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	180 VA	100.00%	180 VA		
Miscellaneous Power	58422 VA	100.00%	58422 VA	Total Conn. Load:	58602 VA
				Total Est. Demand:	58602 VA
				Total Conn.:	70 A
				Total Est. Demand:	70 A

Notes:

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Project No. 2021-178.RVI
Project Date 12.05.2022
Produced Designer Author

JOYCE ELLEN JONES REGISTERED No. PE60920263 STATE OF INDIANA PROFESSIONAL ENGINEER

#	Revision	Date
	Addendum #1	01/05/2023
	Addendum #2	01/12/2023
	Addendum #3	01/31/2023

5640 N Illinois St
Indianapolis, IN 46208

KEY PLAN

The Riviera Club

Aquatics Center

ELECTRICAL PANEL SCHEDULES

E500

E500_ELECTRICAL PANEL SCHEDULES
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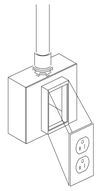
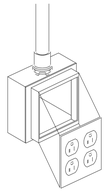
LIGHT FIXTURE SCHEDULE

UNIT ID	DESCRIPTION	DRIVER	VOLTS (V)	LIGHT			LOAD		MOUNTING	MOUNTING HEIGHT (AFF)	MANUFACTURER: MODEL NUMBER	EQUAL MANUFACTURERS
				COLOR (K)	QTY (LM)	UNITS	QTY (W)	UNITS				
A1	2-FOOT BY 4-FOOT FLAT PANEL, WHITE FINISH, DLC LISTED.	0-10V DIMMING TO 10%	277	3500	5037	/FIXTURE	39.3	/FIXTURE	RECESSED	CEILING	COLUMBIA LIGHTING: CBT24-LSCS	LITHONIA LIGHTING: CPX-2X4-4000LM-80CRI-35K-SWL-MIN10-ZT-MVOLT
D1	LENSED SHOWER RATED. DOWNLIGHT, 6-INCH DIAMETER APERTURE, CLEAR SEMI-SPECULAR REFLECTOR, SELF FLANGED [VERIFY MUD IN FLANGE IS NOT REQUIRED], WET LOCATION LISTED, ENERGY STAR LISTED.	0-10V DIMMING TO 10%	277	3500	1684	/FIXTURE	19.5	/FIXTURE	RECESSED	CEILING	PRESCOLITE: LFR-4RD-M-20L35KB-WD-DM1-LFR4IRDTSHWTAML-LFR-4RD-H	GOTHAM: EVO4SH-35/20-DFF-SMO-MVOLT-EZ10-NLT
D2	LENSED SHOWER RATED DOWNLIGHT, 2-INCH DIAMETER APERTURE, CLEAR SEMI-SPECULAR REFLECTOR, SELF FLANGED, WET LOCATION LISTED, ENERGY STAR LISTED.	0-10V DIMMING TO 10%	277	3500	717	/FIXTURE	8.6	/FIXTURE	RECESSED	CEILING	ALPHEBET: 624-RD-SW-10LM-35K-80-D40-UNV-DIM10-NC-WH	GOTHAM: ICO-35/07-AR-LSS-LTF-20D-MVOLT-UGZ
F1	ADJUSTABLE FLOOD,TYPE 4 LIGHT DISTRUBUTION, INTEGRAL POWER SUPPLY, WET LOCATION LISTED, IP67 RATED, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD COLORS.	ELECTRONIC	277	3000	8405	/FIXTURE	74	/FIXTURE	SURFACE WALL	+138"	LIGMAN: UGA-5112-74WLED-T4-W30-01-120/277-F	OR APPROVED EQUAL
L1	LINEAR 2-INCH WIDE BY 8-FOOT LONG DIRECT, AIRCRAFT CABLE, FLUSH FROSTED ACRYLIC LENS, ANODIZED FINISH.	0-10V DIMMING TO 10%	277	3500	625	/FT	7.1	/FT	SUSPENDED	+96"	FINELITE: HP2-P-D-8-B-835-F-9ELG-277-SC-FC-10%-FA50-C3-FE-SW	OR APPROVED EQUAL
P1	2-FOOT EXTRUUDED ALUMINUM NATATORIUM FIXTURE WITH PRIMARY DISTRUBUTION INDIRCTLY AND SMALL DIRECT COMPONANT	0-10V DIMMING TO 10%	277	3500	64896	/FIXTURE	435	/FIXTURE	PENDANT MOUNT	14' AFF 2	LUX DYNAMICS: WAVEP-2-835-U10-WSA4-DEF4	OR APPROVED EQUAL, EQUALS TO PROVIDE PHOTOMETRIC CALCULATIONS FOR APPROVAL. MINIMUM PREFORMANCE IN POOL SHALL BE 50FC AVERAGE ACROSS BOTH POOL AND DECK WITH FIXURES BEING PRIMARLY INDIRECT TO AVOID GLARE. 2
P2	10-INCH NOMINAL DIAMETER CYLINDER, STEM MOUNTED, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD FINISHES, ENERGY STAR LISTED.	0-10V DIMMING TO 10%	277	3500	900	/FIXTURE	10	/FIXTURE	PENDANT MOUNT	+78"	LUMEN ART LIGHTING SOLUTIONS VMM-M-LED-277-3500K-M-WC-WH-0-10V	OR APPROVED EQUAL
S1	4-FOOT LENSED STRIP, CHAIN HUNG, FORMED STEEL HOUSING, CURVED FROSTED ACRYLIC LENS, WHITE ENAMEL FINISH, DLC LISTED.	0-10V DIMMING TO 10%	277	3500	4135	/FIXTURE	35.8	/FIXTURE	SUSPENDED	+108"	COLUMBIA LIGHTING: CSL4-LSCS	LITHONIA LIGHTING: CSS-L48-MVOLT-35K-80CRI
S2	4-FOOT VAPOR TIGHT LENSED STRIP, AIRCRAFT CABLE HUNG, POLYCARBONATE HOUSING, POLYCARBONATE LATCHES, GASKETED LENS SEAL, CURVED POLYCARBONATE LENS, DLC LISTED.	0-10V DIMMING TO 10%	<varies>	3500	4065	/FIXTURE	34	/FIXTURE	SUSPENDED	+108"	COLUMBIA LIGHTING: LXEM4-40ML-RFA-EDU	LITHONIA LIGHTING: CSVT-L48-4000LM-MVOLT-40K-80CRI
T1	STEM MOUNTED AIMABLE LIGHT, NARROW DISTRIBUTION, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD FINISHES.	0-10V DIMMING TO 10%	277	3500	541	/FIXTURE	5	/FIXTURE	PENDANT	+96"	BRUCK LIGHTING: 137409-XTM19-35K-98-SA54-UNV-10V-**-MP-L18	EUREKA: 2064-LED.4-35-48-277V-DV-S6-36-RC-CHR-XXX-BLKA
W1	ARCHITECTURAL WALL PACK, WET LOCATION LISTED, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD COLORS.	ELECTRONIC	277	3000	5121	/FIXTURE	37	/FIXTURE	SURFACE WALL	+96"	LIGMAN: UQU-31343-37WLED-T3-W30-01-120/277V	OR APPROVED EQUAL
W2	ARCHITECTURAL WALL SCONCE, WET LOCATION LISTED, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD COLORS.	ELECTRONIC	277	3000	129	/FIXTURE	22	/FIXTURE	SURFACE WALL	+72"	LANDSCAPEFORMS: AP-108L3-070F-30K-UV1-20K-MW1-NTW	OR APPROVED EQUAL
X1	WHITE THERMOPLATIC EXIT SIGN, CLEAR FACE, RED LETTERING, IMPACT RESISTANT, SELF POWERED, SELF DIAGNOSTIC. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON PLANS.	ELECTRONIC	277				5	/FIXTURE	SURFACE	N/A	COMPASS: CER	LITHONIA: LQM-S-W-3-R-120/277-EL_N-SD
X2	NEMA 4X POLYCARBONATE SHEILDED EXIT SIGN, WHITE FACE,TAMPER RESISTANT, RED LETTERING, SELF POWERED, SELF DIAGNOSTIC. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON PLANS.	ELECTRONIC	277				5	/FIXTURE	SURFACE	N/A	DUALLITE: SEWLSRWE	LITHONIA: LV-W-1-R-120/277-EL_N-SD-4X
X3	WHITE THERMOPLATIC EXIT SIGN, CLEAR FACE, RED LETTERING, IMPACT RESISTANT, SELF POWERED, SELF DIAGNOSTIC. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON PLANS.	ELECTRONIC	277				5	/FIXTURE	CEILING	N/A	COMPASS: CER	LITHONIA: LQM-S-W-3-R-120/277-EL_N-SD



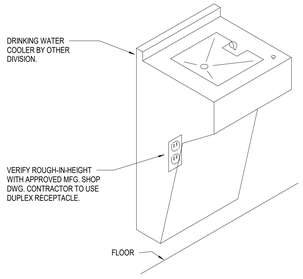
DUPLEX RECEPTACLE IN FLUSH MOUNTED 4" OR 4-11/16" SQUARE BOX WITH SINGLE-GANG PLASTER RING. MOUNT AT +20" AFF TO TOP.

10 TYPICAL FLUSH MOUNTED DUPLEX OUTLET
NOT TO SCALE

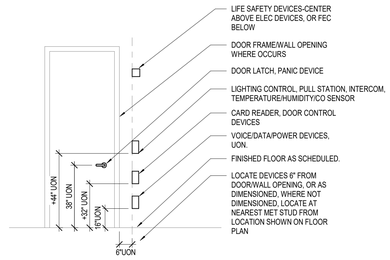


DOUBLE DUPLEX RECEPTACLE IN FLUSH MOUNTED 4" OR 4-11/16" SQUARE BOX WITH SINGLE-GANG PLASTER RING. MOUNT AT +20" AFF TO TOP.

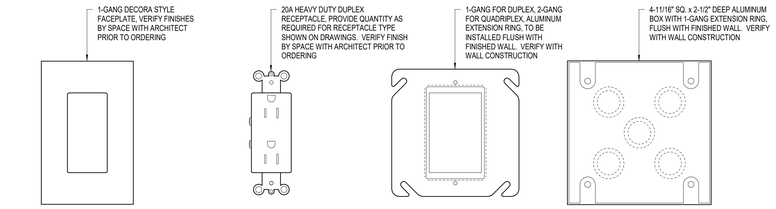
3 TYPICAL FLUSH MOUNTED DOUBLE DUPLEX
NOT TO SCALE

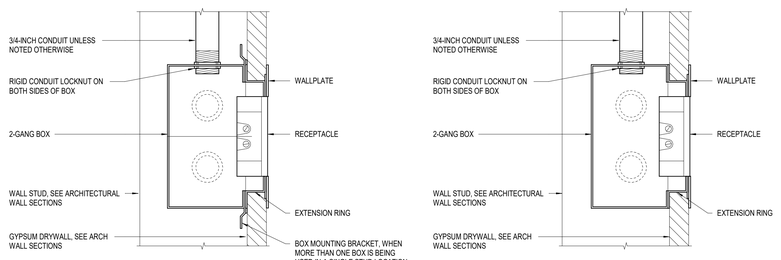


2 EWC WIRING
NOT TO SCALE

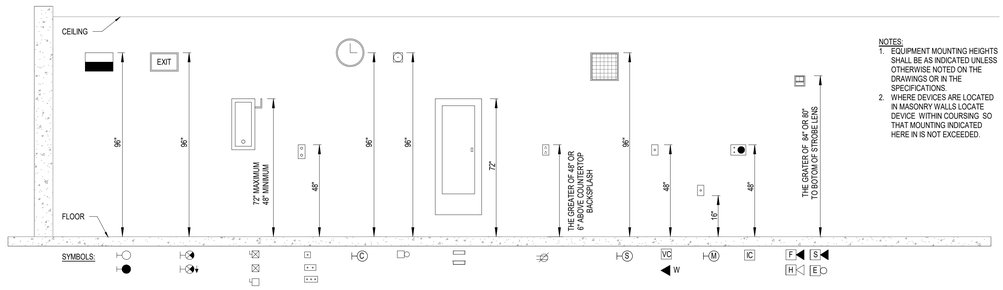


1 DEVICE MOUNTING ELEVATION
NOT TO SCALE

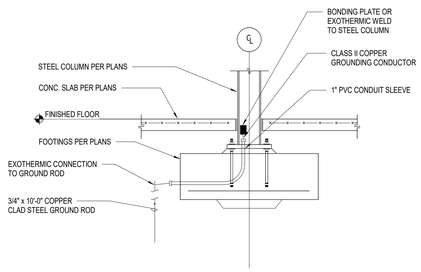




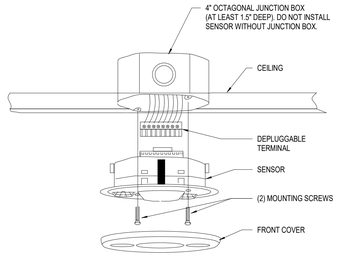
6 TYPICAL RECEPTACLE BOX ASSEMBLY
NOT TO SCALE



5 TYPICAL ELECTRICAL ELEVATION
NOT TO SCALE



8 COLUMN GROUNDING - SLEEVE
NOT TO SCALE



7 TYPICAL OCCUPANCY SENSOR MOUNTING DETAIL
NOT TO SCALE

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#	Revision	Date
	Addendum #1	01/05/2023
	Addendum #2	01/12/2023
	Addendum #3	01/31/2023

5640 N Illinois St
Indianapolis, IN 46208

KEY PLAN

N

The Riviera Club

Aquatics Center

ELECTRICAL SCHEDULES AND DETAILS

E501

E501 - ELECTRICAL SCHEDULES AND DETAILS
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