ADDENDUM #1
To the Bid Documents for the
Family Aquatic Center HVAC and Pool Deck Project 2023
Oak Brook Park District

Date: December 2, 2022

All addenda to bidders shall be incorporated into the bid documents. Each bidder submitting a bid must acknowledge receipt of any and every addendum received. All bidders shall include a printed and signed copy of all addendums issued with their bid submittal. Bidder shall also note its receipt of the addendum on the Bid Form (page 21 of the bid packet).

Attached to this cover sheet is Bid Addendum 1 Packet containing the additional specifications and plan sheets for this project.

ADDENDUM #1 RECEIVED: (Print, sign and include with bid submittal)

Bidder's Signature: _____

Bidder's Name: _____

Company Name: _____

Date: _____

SECTION 00 91 01
ADDENDUM NUMBER 1

DATE: **DECEMBER 2, 2022**

PROJECT: **FAMILY REC CENTER POOL DECK & HVAC RENOVATIONS**
1450 OAK FOREST GATE ROAD
OAK BROOK, ILLINOIS

PROJECT NO: **22-310-1444**

OWNER: **OWNER NAME**
OWNER ADDRESS
OWNER CITY

TO: **PROSPECTIVE BIDDERS / PLAN HOLDERS OF RECORD**

THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND MODIFIES THE BIDDING DOCUMENTS DATED NOVEMBER 29, 2022 NO, WITH AMENDMENTS AND ADDITIONS NOTED BELOW. ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED IN THE BID FORM. FAILURE TO DO SO MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

1.01 THIS ADDENDUM CONSISTS OF TWO (2) PAGES, SPECIFICATION SECTIONS 00 01 10, 00 01 15, 03 30 00, AND DRAWINGS A310 AND A315 FOR A TOTAL OF NINE (9) PAGES.

CHANGES TO ADDENDA

2.01 ADDENDUM NUMBER #1 - ISSUED DECEMBER 2, 2022

CHANGES TO INTRODUCTORY INFORMATION

3.01 DOCUMENT 00 01 10 - TABLE OF CONTENTS

A. Add "Section 03 30 00 - Concrete" to the listing.

3.02 DOCUMENT 00 01 15 - LIST OF DRAWINGS

A. Add "Drawing A315 - ALRTERNATE #1 OR #2 BONDING FLOOR PLAN" to the listing.

CHANGES TO SPECIFICATIONS

4.01 SECTION 03 30 00 - CONCRETE

A. Add section 03 30 00 - Concrete to specifications.

CHANGES TO THE DRAWINGS

5.01 DRAWING A310 - ALTERNATE #1 OR #2 ARCHITECTURAL FLOOR PLAN

A. Replace A310 - Architectural Floor plan sheet with attached A310 - Architectural Floor plan sheet.

5.02 DRAWING A315 - ALTERNATE #1 OR #2 BONDING FLOOR PLAN

A. Add sheet A315 - Alternate #1 or #2 Bonding floor plan to set.

END OF DOCUMENT

SECTION 00 01 10
TABLE OF CONTENTS

END OF SECTION

SECTION 00 01 15
DRAWING INDEX

1.01 GENERAL

G100 COVER SHEET

1.02 ARCHITECTURAL

A210 ALTERNATE #1 ARCHITECTURAL DEMOLITION PLAN

A310 ALTERNATE #1 OR #2 ARCHITECTURAL FLOOR PLAN **[Addendum #1]**

A315 ALTERNATE #1 OR #2 BONDING FLOOR PLAN **[Addendum #1]**

1.03 ARCHITECTURAL / MECHANICAL

AM220 ARCHITECTURAL AND MECHANICAL DEMOLITION ROOF PLAN

1.04 MECHANICAL

M310 MECHANICAL FIRST FLOOR PLAN

M320 MECHANICAL ROOF PLAN

M410 TEMPURATURE CONTROLS

M420 MECHANICAL DETAILS

1.05 ELECTRICAL

E310 FIRST FLOOR PLAN ELECTRICAL PLAN

E600 ELECTRICAL ONE-LINE RISER DIAGRAMS

END OF DOCUMENT

SECTION 03 30 00
CAST-IN-PLACE CONCRETE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Floors and slabs on grade.

B. Concrete curing.

1.02 REFERENCE STANDARDS

A. ACI 117 - Specification for Tolerances for Concrete Construction and Materials 2010 (Reapproved 2015).

B. ACI 211.1 - Standard Practice for Selecting Proportions for Normal, Heavyweight, and Mass Concrete 1991 (Reapproved 2009).

C. ACI 301 - Specifications for Concrete Construction 2020.

D. ACI 304R - Guide for Measuring, Mixing, Transporting, and Placing Concrete 2000 (Reapproved 2009).

E. ACI 308R - Guide to External Curing of Concrete 2016.

F. ASTM A615/A615M - Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement 2022.

G. ASTM A775/A775M - Standard Specification for Epoxy-Coated Steel Reinforcing Bars 2019.

H. ASTM A1064/A1064M - Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete 2018a.

I. ASTM C94/C94M - Standard Specification for Ready-Mixed Concrete 2022.

J. ASTM C150/C150M - Standard Specification for Portland Cement 2022.

K. ASTM D3963/D3963M - Standard Specification for Fabrication and Jobsite Handling of Epoxy-Coated Steel Reinforcing Bars 2021.

1.03 SUBMITTALS

A. Product Data: Submit manufacturers' data on manufactured products showing compliance with specified requirements and installation instructions.
   1. For curing compounds, provide data on method of removal in the event of incompatibility with floor covering adhesives.
   2. Anchoring epoxy and expansion anchors.

B. Mix Designs: Submit 15 days prior to start of work.
   1. Submit for each type of concrete specified.
   2. Include back-up test data.
   3. Indicate proposed mix design complies with requirements of ACI 301, Section 4 - Concrete Mixtures.
   4. Indicate proposed mix design complies with requirements of ACI 318, Chapter 5 - Concrete Quality, Mixing and Placing.

1.04 QUALITY ASSURANCE

A. Perform work of this section in accordance with ACI 301 and ACI 318.

PART 2 PRODUCTS

2.01 REINFORCEMENT

A. Reinforcing Steel: ASTM A615/A615M, Grade 60 (60,000 psi).
   1. Type: Deformed billet-steel bars.
   2. Finish: Epoxy coated in accordance with ASTM A775/A775M, unless otherwise indicated.

B. Steel Welded Wire Reinforcement (WWR): Class A epoxy coated, deformed type, ASTM A884/A884M.

2.02 CONCRETE MATERIALS

A. Cement: ASTM C150/C150M, Type I - Normal Portland type.
   1. Acquire cement for entire project from same source.

B. Water: Clean and not detrimental to concrete.

2.03 ADMIXTURES

A. Do not use chemicals that will result in soluble chloride ions in excess of 0.1 percent by weight of cement.

2.04 ACCESSORY MATERIALS

A. Underslab Vapor Retarder: Sheet material complying with ASTM E1745, Class A; stated by manufacturer as suitable for installation in contact with soil or granular fill under concrete slabs. The use of single ply polyethylene is prohibited.
   1. Manufacturers:
      a. Fortifiber Building Systems Group; Moistop Ultra 15: www.fortifiber.com.
      b. Stego Industries, LLC; Stego Wrap15 mils: www.stegoindustries.com.
      c. W. R. Meadows, Inc; PERMINATOR Class A - 15 mils: www.wrmeadows.com.

B. Anchoring Epoxy: Refer to drawings. Acceptable manufacturer's include...
   1. Hilti: HIT-RE500-SD injection anchoring system.
   2. Simpson Strong-Tie: SET-XP injection anchoring adhesive system.
   3. Powers Fasteners: PE 1000+ injection adhesive anchoring system.

C. Expansion Anchors: Refer to drawings. Acceptable manufacturer's include...
   1. Hilti: Kwik Bolt 3 expansion anchor.
   2. Simpson Strong-Tie: Strong-Bolt 2 wedge anchor.

D. Standard Wire Ties

2.05 BONDING AND JOINTING PRODUCTS

A. Epoxy Bonding System:
   1. Complying with ASTM C881/C881M and of Type required for specific application.

B. Slab Isolation Joint Filler: 1/2 inch thick, height equal to slab thickness, with removable top section that will form 1/2 inch deep sealant pocket after removal.

C. Slab Contraction Joint Device: Preformed linear strip intended for pressing into wet concrete to provide straight route for shrinkage cracking.

D. Slab Construction Joint Devices: Combination keyed joint form and screed, galvanized steel, with rectangular or round knockout holes for conduit or rebar to pass through joint form at 6 inches on center; ribbed steel stakes for setting.

2.06 CONCRETE MIX DESIGN

A. Proportioning Normal Weight Concrete: Comply with ACI 211.1 recommendations.

B. Concrete Strength: Establish required average strength for each type of concrete on the basis of field experience or trial mixtures, as specified in ACI 301.
   1. For trial mixtures method, employ independent testing agency acceptable to Architect/Engineer for preparing and reporting proposed mix designs.

C. Admixtures: Add acceptable admixtures as recommended in ACI 211.1 and at rates recommended by manufacturer. Submit to Architect for review and approval.

D. Normal Weight Concrete: Type "A".
   1. Compressive Strength, when tested in accordance with ASTM C39/C39M at 28 days: 3,000 pounds per square inch.
   2. Fly Ash Content: Maximum 15 percent of cementitious materials by weight.
   3. Water-Cement Ratio: Maximum 48 percent by weight.
   4. Total Air Content: 2 percent, determined in accordance with ASTM C 173/C 173M.
   5. Maximum Slump: 4 inches.
   6. Maximum Aggregate Size: 3/4 inch.

E. For slabs with synthetic fiber reinforcement, consult manufacturer regarding coarse/fine aggregate ratios and admixture recommendations to improve finishability and a smoother finished product.

2.07 MIXING

A. Transit Mixers: Comply with ASTM C94/C94M.

B. Adding Water: If concrete arrives on-site with slump less than suitable for placement, do not add water that exceeds the maximum water-cement ratio or exceeds the maximum permissible slump.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify lines, levels, and dimensions before proceeding with work of this section.

3.02 PREPARATION

A. Verify that forms are clean and free of rust before applying release agent.

B. Coordinate placement of embedded items with erection of concrete formwork and placement of form accessories.

C. Where new concrete is to be bonded to previously placed concrete, prepare existing surface by cleaning and applying bonding agent in according to bonding agent manufacturer's instructions.
   1. Use epoxy bonding system for bonding to damp surfaces, for structural load-bearing applications, and where curing under humid conditions is required.

D. In locations where new concrete is doweled to existing work, drill holes in existing concrete, insert steel dowels and secure in place using approved epoxy.

3.03 INSTALLING REINFORCEMENT AND OTHER EMBEDDED ITEMS

A. Fabricate and handle epoxy-coated reinforcing in accordance with ASTM D3963/D3963M.

B. Comply with requirements of ACI 301. Clean reinforcement of loose rust and mill scale, and accurately position, support, and secure in place to achieve not less than minimum concrete coverage required for protection.

C. Install welded wire reinforcement in maximum possible lengths, and offset end laps in both directions. Splice laps with tie wire.

3.04 PLACING CONCRETE

A. Place concrete in accordance with ACI 304R.

B. Notify Architect/Engineer not less than 24 hours prior to commencement of placement operations.

C. Maintain records of concrete placement. Record date, location, quantity, air temperature, and test samples taken.

D. Ensure reinforcement and formed construction joint devices will not be disturbed during concrete placement.

E. Place concrete continuously without construction (cold) joints wherever possible; where construction joints are necessary, before next placement prepare joint surface by removing laitance and exposing the sand and sound surface mortar, by sandblasting or high-pressure water jetting.

3.05 SLAB JOINTING

A. Anchor joint fillers and devices to prevent movement during concrete placement.

B. Install joint devices in accordance with manufacturer's instructions.

C. Install construction joint devices in coordination with floor slab pattern placement sequence. Set top to required elevations. Secure to resist movement by wet concrete.

D. Place concrete continuously between predetermined expansion, control, and construction joints.

E. Do not interrupt successive placement; do not permit cold joints to occur.

3.06 SEPARATE FLOOR TOPPINGS

A. Prior to placing floor topping, roughen substrate concrete surface and remove deleterious material. Broom and vacuum clean.

3.07 CONCRETE FINISHING

A. Repair surface defects, immediately after removing formwork.

B. Concrete Slabs: Finish to requirements of ACI 302.1R, and as follows:
   1. Provide light broom finish on exterior flat work.
   2. Provide 3/4" radiused edge on exposed slab edges, unless otherwise noted.

C. In areas with floor drains, maintain floor elevation at walls; pitch surfaces uniformly to drains at 1:100 nominal.

D. For slabs with synthetic fiber reinforcement, consult manufacturer regarding recommended placement and finishing techniques required to minimize the exposed fibers in the top surface of the slab.

3.08 CURING AND PROTECTION

A. Comply with requirements of ACI 308R. Immediately after placement, protect concrete from premature drying, excessively hot or cold temperatures, and mechanical injury.

B. Maintain concrete with minimal moisture loss at relatively constant temperature for period necessary for hydration of cement and hardening of concrete.

3.09 DEFECTIVE CONCRETE

A. Defective Concrete: Concrete not conforming to required lines, details, dimensions, tolerances or specified requirements.

B. Repair or replacement of defective concrete will be determined by the Architect/Engineer. The cost of additional testing shall be borne by Contractor when defective concrete is identified.

C. Do not patch, fill, touch-up, repair, or replace exposed concrete except upon express direction of Architect/Engineer for each individual area.

3.10 PROTECTION

A. Do not permit traffic over unprotected concrete floor surface until fully cured.

END OF SECTION

KEYNOTES

KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

2.031 EXISTING DECK MOUNTED ITEMS TO REMAIN. NOT IN SCOPE OF WORK. PROTECT DURING CONSTRUCTION. ITEMS INCLUDE BUT NOT LIMITED TO: ADA LIFT, BENCHES, LADDER RAILS, POOL STAIRS AND HANDRAILS, SLIDES ETC.

2.032 EXISTING DECK DRAINS TO REMAIN. PROTECT DECK DRAINS DURING CONSTRUCTION. INSTALL FLOORING FLUSH WITH THE EXISTING DECK DRAINS.

2.033 EXISTING POOL EDGE DRAINS: NO WORK.

2.034 EXISTING SPA DEPTH MARKERS TO REMAIN. NO WORK.

2.039 EXISTING CERAMIC TILE SPA: NO WORK ON STEPS OR SEATING FOR SPA.

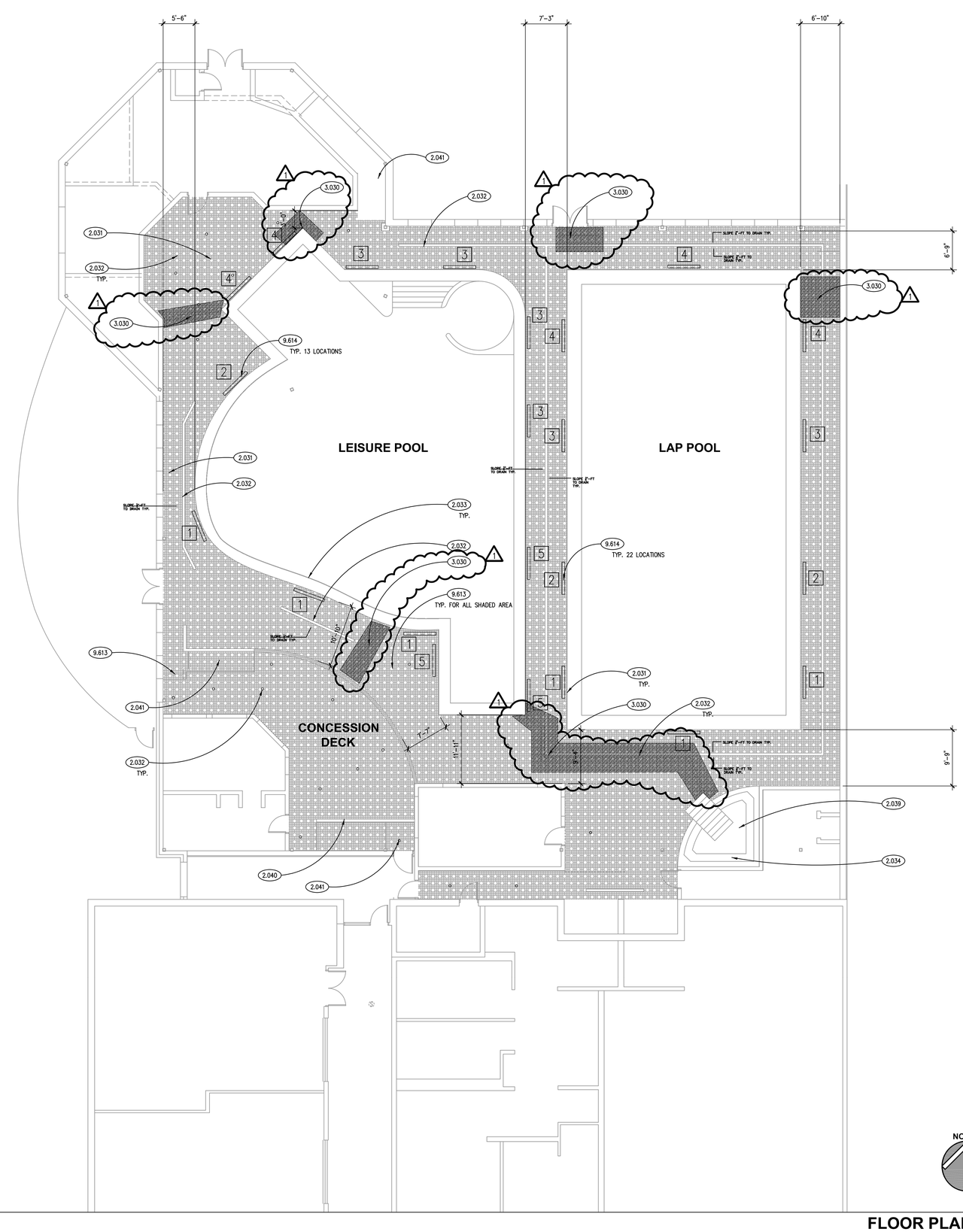
2.040 EXISTING CERAMIC TILE PLATFORM EDGE: NO WORK. VERTICAL SURFACES ON PLATFORM ARE NOT INCLUDED. PROTECT TILE TO REMAIN.

2.041 EXISTING CONCRETE RAMP TO REMAIN. NO WORK IN SLIDE APPROACH.

3.030 CAST-IN-PLACE CONCRETE: IN AREAS WHERE CONCRETE INVESTIGATION WARRANT REPLACEMENT. REPLACE FULL CONCRETE SQUARE FULL DEPTH OF POOL DECK (BETWEEN 5" – 6"). EXISTING DECK DRAINS AND DRAIN BODIES ARE TO REMAIN. PROTECT DURING CONSTRUCTION. MATCH EXISTING ELEVATION AND SLOPE OF REMOVED CONCRETE. PROVIDE REINFORCED CONCRETE DOWELED INTO EXISTING SLAB. REFER TO BONDING PLAN FOR BONDING GRID INFORMATION.

9.613 RUBBER COPOLYMER TILE WET AREA SURFACE SYSTEM: SEE SPECIFICATIONS FOR MORE INFORMATION.

9.614 RUBBER COPOLYMER TILE WET AREA SURFACE SYSTEM: SAFETY MESSAGING. SEE DETAIL 2/A310.

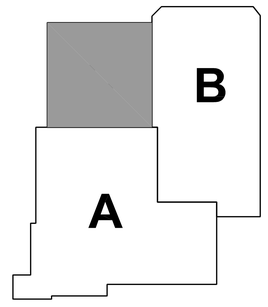


FLOOR PLAN 1
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.
2. EXISTING POOL DECK IS APPROXIMATELY 3500 SF.
3. ALL EXISTING POOL DECK SLOPES ARE TO REMAIN. DO NOT MODIFY SLOPES IN ANY WAY. THIS IS AN EXISTING IDPH-APPROVED FACILITY.
4. NO POOL COPING IS BEING REPLACED.
5. PROTECT ITEMS TO REMAIN FROM DAMAGE UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETE.

KEY PLAN



1 0 FT 0 IN
2 1 FT 0 IN
3 3 FT 0 IN
4 3 FT 6 IN
5 4 FT 0 IN

LEISURE POOL DEPTH MARKER KEY 4
SCALE: NTS

1 4 FT 0 IN
2 4 FT 6 IN
3 5 FT 0 IN
4 7 FT 0 IN

LAP POOL DEPTH MARKER KEY 3
SCALE: NTS

DEPTH MARKER NOTES

1. VERIFY WATER DEPTH AT EXISTING DEPTH MARKERS. PROVIDE DEPTH MARKERS THAT INDICATE ACTUAL DEPTH OF WATER.
2. SPACE DEPTH MARKERS AT NOT MORE THAN 25'-0" INTERVALS MEASURED ALONG THE POOL PERIMETER; REFER TO FLOOR PLAN ON THIS SHEET FOR APPROXIMATE LOCATIONS.
3. RECESS DEPTH MARKER TILES SO THAT FACE OF TILE IS FLUSH WITH FINISHED DECK SURFACE.
4. PROVIDE NON-SLIP RUBBER DEPTH MARKER TILES WITH DARK-COLORED 6" HIGH NUMERALS; COLOR AS SELECTED BY OWNER.
5. PROVIDE NONE-SLIP RUBBER "NO DIVING MARKERS IN RED COLOR WITH 6" HIGH LETTERS.
6. MARKER TILE FIELD COLOR: CONTRACTING LIGHT COLOR COMPLEMENTING COLOR OF POOL DECK TILES; COLOR AS SELECTED BY OWNER.

DEPTH MARKER - DECK 2
SCALE: NTS

Kluber Architects + Engineers
Kluber, Inc.
Aurora, Illinois 60506
tel. 630.406.1213
Chicago, Illinois 60606
tel. 312.267.5870
www.klubericnc.com

OAK BROOK PARK DISTRICT - FAM. REC. CENTER POOL DECK & HVAC RENO.

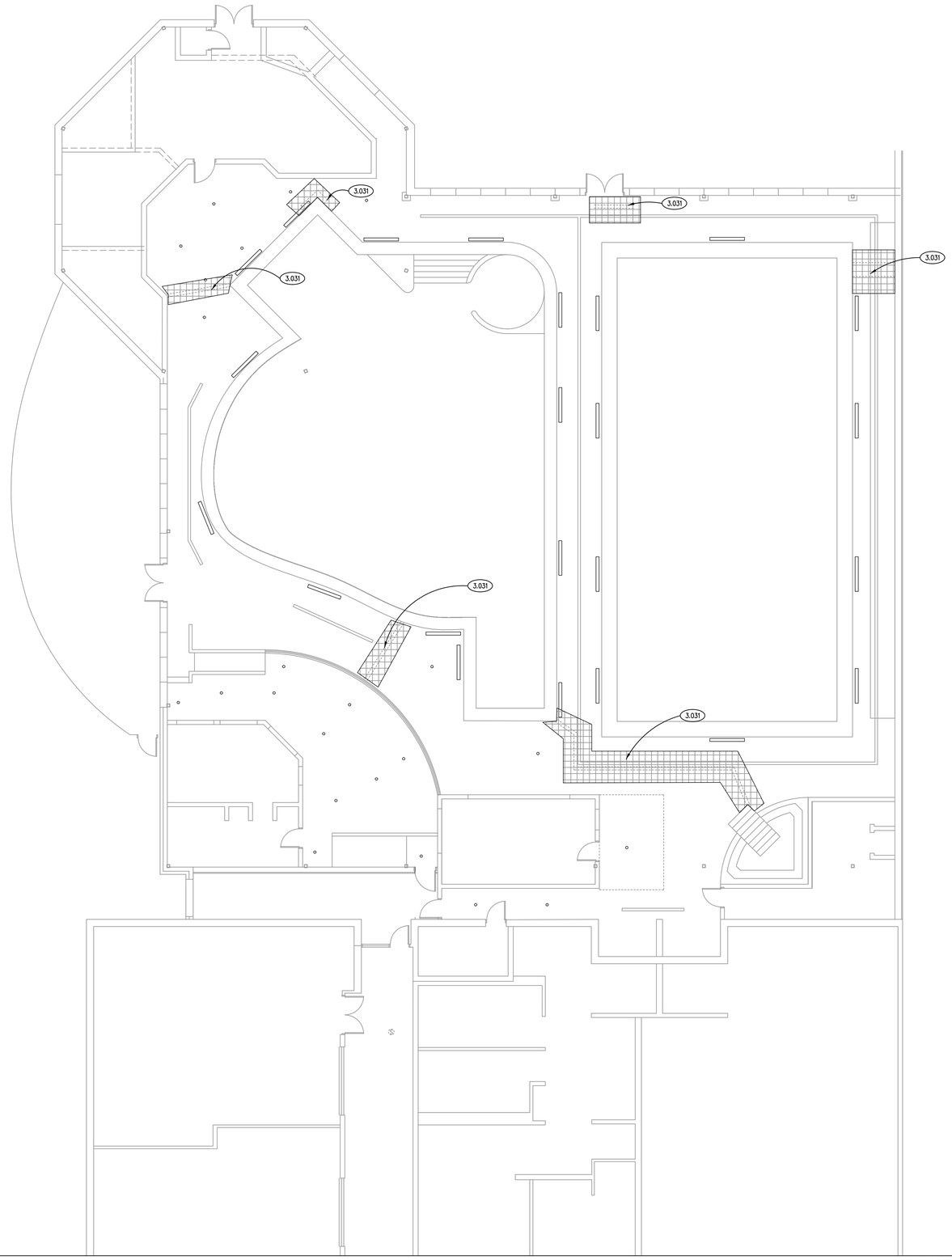
OAK BROOK PARK DISTRICT
1450 FOREST GATE ROAD
OAK BROOK, ILLINOIS 60523

ISSUED
11/28/22 OUT TO BID / IDPH REVIEW

JOB NO. 22-310-1444
DRAWN CDJ
CHECKED CDH
APPROVED AN

SHEET TITLE
ALTERNATE #1 OR #2 ARCHITECTURAL FLOOR PLAN

SHEET NUMBER
A310



NORTH

BONDING PLAN (1)
SCALE: 1/8" = 1'-0"

KEYNOTES

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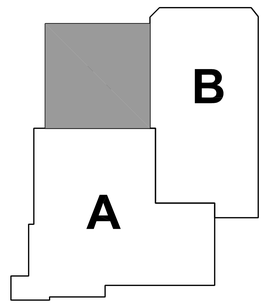
3.031 CAST-IN-PLACE CONCRETE: EQUIPOTENTIAL BONDING GRID FORMED BY REINFORCING STEEL. MAXIMUM 12" X 12" GRID. STANDARD WIRE TIES AT INTERSECTIONS. MUST TIE INTO EXISTING BONDING GRID AND REMAIN NEUTRAL CHARGE. VARIFY EXISTING GRID CHARGE PRIOR TO TIE IN.

GENERAL NOTES

1. ALL METAL PARTS ASSOCIATED WITH THE POOL STRUCTURE, CONDUIT AND PIPING, HANDRAILS, LADDERS, DRAINS, ETC. MUST BE GROUNDED TO EXISTING NEUTRAL BOND GRID.
2. ALL EQUIPOTENTIAL BONDING TERMINATIONS MUST BE MAKE BY EXOTHERMIC WELDING, LISTED PRESSURE CONNECTORS OF THE SET SCREW OR COMPRESSION TYPE, LISTED CLAMPS, OR OTHER LISTED FITTINGS. (NEC 2008 ARTICLE 680)

KEY PLAN



PLAN NORTH
TRUE NORTH

Kluber Architects + Engineers
Kluber, Inc.
Aurora, Illinois 60506
tel. 630.406.1213
Chicago, Illinois 60606
tel. 312.267.5870
www.kluberinc.com

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JOB NO.	22-310-1444
DRAWN	CDJ
CHECKED	CDH
APPROVED	AN

SHEET TITLE
ALTERNATE #1 OR #2 BONDING FLOOR PLAN

SHEET NUMBER
A315

NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30" X 42 INCHES.

P:\1444 - Oak Brook Park District - Family Rec Pool HVAC & Deck\50_Design\Dwgs\DD-CD\10_Arch\1444A0315.dwg, 12/2/2022 12:52:43 PM, CDJ