

# ADDENDUM NO. 2

**January 11, 2024**

## **Riviera Club Youth Pool and Equipment Building**

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 November 10, 2023, by Fanning Howey 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 2-1 – ADD.2-3, Site Logistics Plan and Guideline Schedule, and Schmidt Associates Addendum No. 1 dated January 10, 2024, consisting of 2 pages and Specification Section, 061600 Sheathing, and Revised Addendum Drawings: CG101, CU101, CU501, CE101, CE501, AF1A1, AQ100, AQ200, AQ300, AQ500, and AQ703.

#### **A. PRE-BID MEETING – SITE LOGISTICS PLAN**

1. Replace the site logistics plan with the following. Note, Drawing Sheet CE101 describes Construction Entrance at existing lawn area, continue stone access as shown following:





**B. SPECIFICATION SECTION 01 12 00 – MULTIPLE CONTRACT SUMMARY**

1. Paragraph 3.03

**A. BID CATEGORY NO. 1 – EARTHSORK & SITE UTILITIES**

Add the following Specification Sections:

- 01 51 10 - Temporary Electricity, Lighting and Warning Systems
- 01 51 60 - Temporary Sanitary Facilities
- 01 52 60 - Rubbish Container
- 01 53 00 - Fences
- 01 53 20 - Tree and Plant Protection
- 32 92 00 - Turf and Grasses

Project Specific Clarifications:

- 4. Provide road cleaning/sweeping for the duration of project.
- 7. Remove and additional existing material if required to allow for placement of swimming pool and deck SOG and drainage fill per Drawing AQS101. Proof roll subgrade.
- 8. Assure that stormwater system is installed to allow passage of equipment including but not limited to concrete trucks from parking lot to pool location.
- 9. Provide temporary sanitary facilities throughout the project schedule.
- 10. Each bid group shall provide temporary water as required by its own activities.

## **B. BID CATEGORY NO. 2 – GENERAL TRADES**

Remove the following Specification Sections:

- 01 51 10 - Temporary Electricity, Lighting and Warning Systems
- 01 51 60 - Temporary Sanitary Facilities
- 01 52 10 - Construction Aids and Temporary Enclosures
- 01 52 60 - Rubbish Container
- 01 53 20 - Tree and Plant Protection
- 32 31 13 - Chain Link Fences and Gates
- 32 92 00 - Turf and Grasses

Project Specific Clarifications:

1. Remove item 1.
2. Provide cleaning/sweeping while performing work on site.
8. Site electrical work described on drawing sheet E1A1 is by this Bid Category No. 2. Contractor to Coordinate with Bid Category No. 1 Contractor.
9. Provide joint sealants with the exception of those described in section 13 15 00 / 2.03.
10. Each bid group shall provide temporary water as required by its own activities.

## **C. BID CATEGORY NO. 3 – SWIMMING POOL**

Add the following Specification Section:

- 32 31 13 – Chain Link Fences and Gates

Project Specific Clarifications:

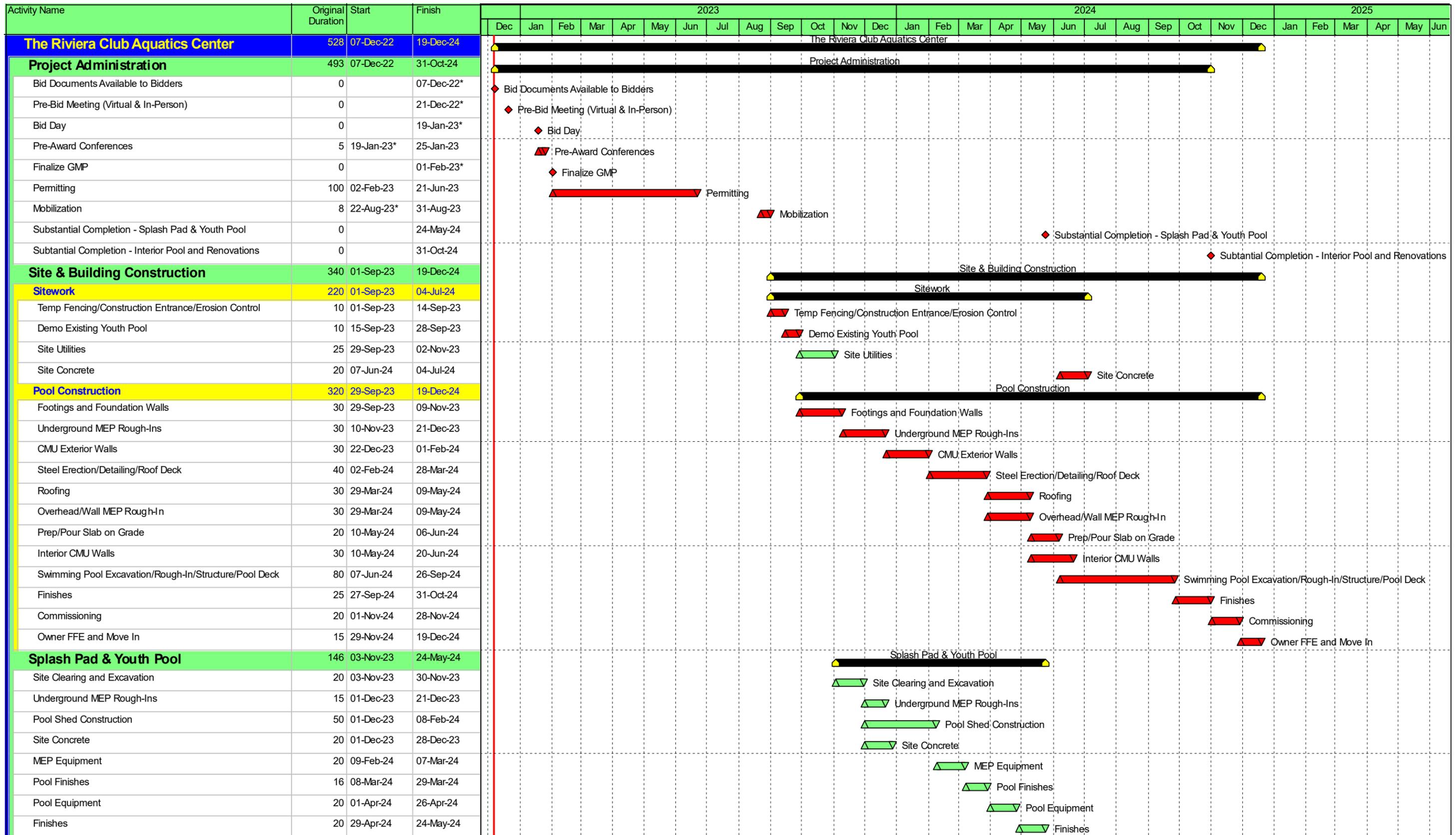
2. Provide drainage fill per Drawing AQS101 after proof roll of subgrade by Bid Category no.1. Include any additional drainage fill required.
3. Provide detail 7/AQS101 at all pool deck to pool walls locations.
4. Commercial Grade #8 stone may be used in lieu of INDOT #8.
5. Provide shop drawing indicating control/expansion joints in the pool deck and well. Joints may be modified to reflect slope to drains if approved by Design Professional.
6. Each bid group shall provide temporary water as required by its own activities.
7. Sheet AQ200 Ornamental Fences refers to 32 31 13.

## **C. SPECIFICATION SECTION 01 32 00 – SCHEDULES AND REPORTS**

1. Replace Guideline Schedule with the attached:

## **D. SPECIFICATION SECTION 01 53 00 – FENCES**

1. Replace site logistics plan with plan shown in A. above.



-  Actual Work
-  Remaining Work
-  Critical Remaining Work
-  Milestone
-  Summary

**The Riviera Club Aquatics Center**  
**Guideline Schedule 07-Dec-22**  
 1 of 1



# **ADDENDUM NO. 1**

## **JANUARY 10, 2024**

**PREPARED BY SCHMIDT ASSOCIATES FOR:  
YOUTH POOL AND EQUIPMENT BUILDING  
THE RIVIERA CLUB**

This Addendum consists of 2 Addendum pages and 15 attachment pages totaling 17 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 06 – WOOD, PLASTICS, AND COMPOSITES**

##### **A. Section 061600 “SHEATHING”**

1. DELETE AND REPLACE Section in its entirety per the attached.

#### **2.2 DIVISION 32 - EXTERIOR IMPROVEMENTS**

##### **A. Section 329200 “TURF AND GRASSES”**

1. MODIFY Section 2.2.A. TOPSOIL as follows:

“A. Topsoil: ASTM D 5268, pH range of 5.5 to 8, a minimum of 6 percent organic material content; free of stones 1 inch or larger in any dimension and other extraneous materials harmful to plant growth.”

### PART 3 - CHANGES TO THE DRAWINGS

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

#### 3.1 DRAWING SHEETS: ADDITIONS, DELETIONS AND REPLACEMENTS

DRAWING NO.	INDICATE ACTION: ADD (A), DELETE (D), DELETE & REPLACE (R),
<b>C-SERIES DRAWINGS</b>	
CG101	DELETE AND REPLACE
CU101	DELETE AND REPLACE
CU501	DELETE AND REPLACE
CE101	DELETE AND REPLACE
CE501	DELETE AND REPLACE
<b>A-SERIES DRAWINGS</b>	
AF1A1	DELETE AND REPLACE
<b>AQ-SERIES DRAWINGS</b>	
AQ100	DELETE AND REPLACE
AQ200	DELETE AND REPLACE
AQ300	DELETE AND REPLACE
AQ500	DELETE AND REPLACE
AQ703	DELETE AND REPLACE

**END OF ADDENDUM 1**

## SECTION 061600 - SHEATHING

### PART 1 - GENERAL

#### 1.1 SUMMARY

A. Section Includes:

1. Wall sheathing.
2. Roof sheathing.

B. Related Requirements:

1. Section 061000 "Rough Carpentry" for plywood backing panels.

#### 1.2 ACTION SUBMITTALS

A. Product Data,:

1. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.

#### 1.3 DELIVERY, STORAGE, AND HANDLING

- A. Stack panels flat with spacers beneath and between each bundle to provide air circulation. Protect sheathing from weather by covering with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.

### PART 2 - PRODUCTS

#### 2.1 WOOD PANEL PRODUCTS

- A. Thickness: As needed to comply with requirements specified, but not less than thickness indicated.
- B. Factory mark panels to indicate compliance with applicable standard.

#### 2.2 WALL SHEATHING

- A. Glass-Mat Gypsum Sheathing, Walls: ASTM C1177/C1177M.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

- a. Certainteed; SAINT-GOBAIN; GlasRoc.
  - b. Georgia-Pacific Gypsum LLC; Dens-Glass.
  - c. National Gypsum Company; Gold Bond eXP Extended Exposure Sheathing.
  - d. USG Corporation; Securock.
2. Type and Thickness: Regular, 1/2 inch thick.
  3. Size: 48 by 96 inches for vertical installation.

## 2.3 ROOF SHEATHING

- A. Plywood Sheathing: , Exterior, Structural I sheathing.
  1. Span Rating: Not less than 40/20.
  2. Nominal Thickness: Not less than 1/2 inch.
- B. Oriented-Strand-Board Sheathing: DOC PS 2, Exposure 1, Structural I sheathing.
  1. Span Rating: Not less than 40/20.
  2. Nominal Thickness: Not less than 5/8 inch.

## 2.4 FASTENERS

- A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.
  1. For wall sheathing, provide fasteners with hot-dip zinc coating complying with ASTM A153/A153M.
- B. Nails, Brads, and Staples: ASTM F1667.
- C. Power-Driven Fasteners: Fastener systems with an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC70.

## PART 3 - EXECUTION

### 3.1 INSTALLATION, GENERAL

- A. Do not use materials with defects that impair quality of sheathing or pieces that are too small to use with minimum number of joints or optimum joint arrangement. Arrange joints so that pieces do not span between fewer than three support members.
- B. Cut panels at penetrations, edges, and other obstructions of work; fit tightly against abutting construction unless otherwise indicated.
- C. Securely attach to substrate by fastening as indicated, complying with the following:

1. Table 2304.10.1, "Fastening Schedule," in the ICC's International Building Code.
  2. ICC-ES evaluation report for fastener.
- D. Coordinate wall roof sheathing installation with flashing and joint-sealant installation so these materials are installed in sequence and manner that prevent exterior moisture from passing through completed assembly.
- E. Do not bridge building expansion joints; cut and space edges of panels to match spacing of structural support elements.
- F. Coordinate sheathing installation with installation of materials installed over sheathing so sheathing is not exposed to precipitation or left exposed at end of the workday when rain is forecast.

### 3.2 INSTALLATION OF WOOD STRUCTURAL PANEL

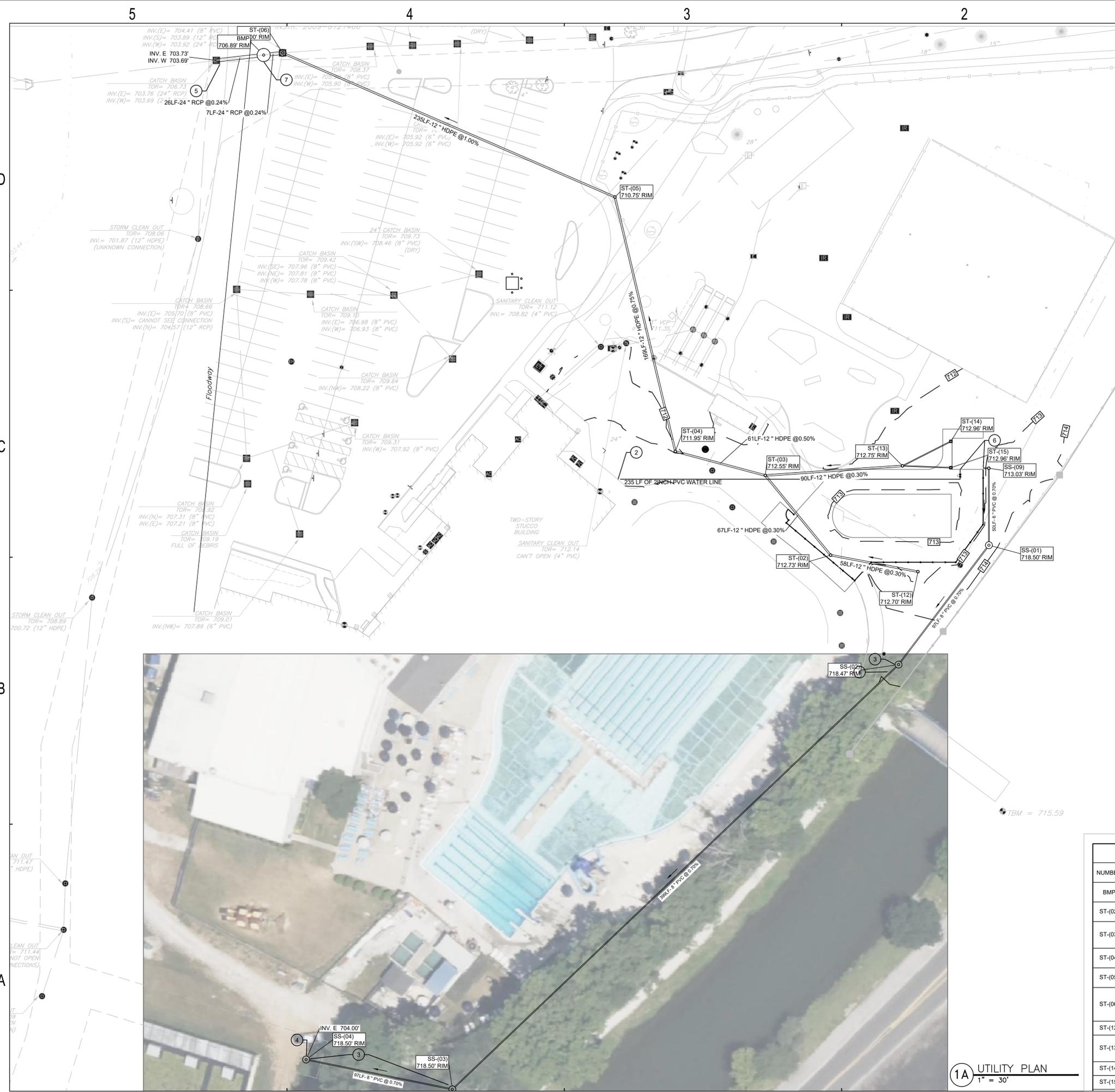
- A. General: Comply with applicable recommendations in APA Form No. E30, "Engineered Wood Construction Guide," for types of structural-use panels and applications indicated.
- B. Fastening Methods: Fasten panels as indicated below:
1. Wall and Roof Sheathing:
    - a. Screw to cold-formed metal framing.
    - b. Space panels 1/8 inch apart at edges and ends.

### 3.3 INSTALLATION OF GYPSUM SHEATHING

- A. Comply with GA-253 and with manufacturer's written instructions.
1. Fasten gypsum sheathing to cold-formed metal framing with screws.
  2. Install panels with a 3/8-inch gap where non-load-bearing construction abuts structural elements.
  3. Install panels with a 1/4-inch gap where they abut masonry or similar materials that might retain moisture, to prevent wicking.
- B. Apply fasteners so heads bear tightly against face of sheathing, but do not cut into facing.
- C. Vertical Installation: Install vertical edges centered over studs. Abut ends and edges with those of adjacent panels. Attach at perimeter and within field of panel to each stud.
1. Space fasteners approximately 8 inches o.c. and set back a minimum of 3/8 inch from edges and ends of panels.
  2. For sheathing under stucco cladding, panels may be initially tacked in place with screws if overlying self-furring metal lath is screw-attached through sheathing to studs immediately after sheathing is installed.

END OF SECTION

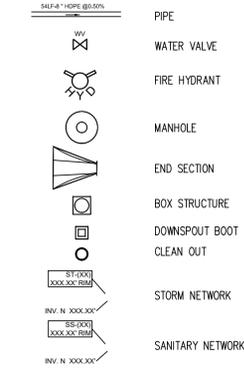




**GENERAL UTILITIES NOTES**

- IF THE LOCAL BENCHMARK(S) WILL BE DISTURBED DURING CONSTRUCTION, IT THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH ADDITIONAL BENCHMARKS AS NEEDED.
- ALL LIDS, CASTINGS, GRATES, BOXES, AND HATCHES ASSOCIATED WITH EXISTING UTILITY STRUCTURES THAT ARE NOT INDICATED FOR MODIFICATION SHALL BE MAINTAINED AND PROTECTED DURING CONSTRUCTION.
- COMPACTED GRANULAR BACKFILL IS REQUIRED FOR ALL UTILITY TRENCHES LOCATED UNDER PAVED AREAS. SEE SPECIFICATIONS.
- PIPE LENGTHS INDICATED ON THE DRAWINGS ARE FOR HYDRAULIC CALCULATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR FURNISHING THE AMOUNT OF PIPE MATERIALS NECESSARY FOR A COMPLETE INSTALLATION.
- ALL EXISTING PIPES INVERTS ARE APPROXIMATE. VERIFY ALL INVERTS IN FIELD. IF INVERTS DO NOT MATCH THE INVERTS, CONTACT THE ARCHITECT.
- TRACER WIRE IS REQUIRED ON TOP OF SANITARY LATERAL FROM BUILDING TO DOWNSTREAM CONNECTION POINT. MINIMUM 10' HORIZONTAL AND 18" VERTICAL OF SEPARATION BETWEEN SANITARY AND WATER LINES IS REQUIRED.
- ALL HDPE PIPE FOR STORM SEWER LINES SHALL BE SMOOTH-WALLED.
- ALL MANHOLE COVERS SHALL HAVE THE WORDS "Storm Sewer" CAST IN RECESSED LETTERS TWO (2) INCHES IN HEIGHT.
- INLET CHASTINGS SHALL HAVE THE WORDS "No Dumping, Drains to Stream" CAST IN RECESSED OR RECESSED LETTERS AT A MINIMUM 1" IN HEIGHT. A SYMBOL OF A FISH SHALL ALSO BE CAST WITH THE LETTERS.
- WHERE CONNECTIONS ARE MADE TO EXISTING MANHOLES OR INLET STRUCTURES, THOSE STRUCTURES SHALL BE REHABILITATED OR REPLACED TO THOSE MINIMUM STANDARDS OUTLINED IN CHAPTERS 400 AND 500 OF INDIANAPOLIS STORMWATER SPECIFICATIONS MANUAL, LATEST EDITION. THE REHABILITATION SHALL INCLUDE THE INSTALLATION OF BENCH WALLS, AS WELL AS PREScribed MEASURE TO ELIMINATE THE POTENTIAL FOR MIGRATION OF BACKFILL MATERIALS INTO THE STORMWATER SYSTEM.
- ALL PROPOSED STORM SEWER AND DRAINAGE APPURTENANCES SHALL BE IN CONFORMANCE WITH CHAPTERS 400 AND 500 OF THE CITY OF INDIANAPOLIS STORMWATER SPECIFICATIONS LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVATE FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE MANUAL.
- BENCHWALL SHALL FORM A DEFINED CHANNEL, TO A MINIMUM HEIGHT OF BOX OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES TO FORM A "U" SHAPED CHANNEL, CONSTRUCTED AT A MINIMUM 1/2 INCH PER FOOT SLOPE TO MANHOLE WALL.

**UTILITY LEGEND**



**UTILITIES KEY NOTES**

- JACK AND BORE SANITARY LINE FROM MANHOLE TO MANHOLE. PIPE MATERIAL AND INSTALLATION METHOD SHALL BE PER CITIZEN'S REQUIREMENTS.
- WET TAP EXISTING WATER LINE. WATER LINE LOCATION UNKNOWN. FIELD VERIFY
- MANHOLE WILL SIT ABOVE GRADE DUE TO BFE.
- EXISTING SANITARY LOCATION AND INV UNKNOWN. FIELD VERIFY BEFORE ORDERING STRUCTURE.
- CONNECT NEW PIPE TO EXISTING STRUCTURE
- SEE P-SERIES SERIES DRAWINGS FOR CONNECTION.
- INSTALL MANUFACTURER ANTI-FLOATATION DEVICE ON BMP

**SS STRUCTURE DATA TABLE**

NUMBER	TYPE	CASTING	RIM ELEVATIONS	INVERTS
SS-(01)	4.00' Manhole	R-1772	718.50' RIM	6" INV. N 708.45' 8" INV. SW 708.35'
SS-(02)	4.00' Manhole	R-1772	718.47' RIM	8" INV. NE 707.67' 8" INV. SW 707.57'
SS-(03)	4.00' Manhole	R-1772	718.50' RIM	8" INV. NE 704.78' 8" INV. W 704.68'
SS-(04)	4.00' Manhole	R-1772	718.50' RIM	8" INV. E 704.00'
SS-(09)	"Clean out"	R-1976	713.03' RIM	6" INV. W 708.80' 6" INV. S 708.80'

**ST STRUCTURE DATA TABLE**

NUMBER	TYPE	CASTING	RIM ELEVATIONS	INVERTS
BMP	8.00' Manhole	CS-8	706.89' RIM	24" INV. E 703.81' 24" INV. W 703.81'
ST-(02)	"Nyloplast"	BRONZE ADA INLET	712.73' RIM	12" INV. NW 709.53' 12" INV. E 709.63'
ST-(03)	"Nyloplast"	DOME INLET	712.55' RIM	12" INV. SE 709.33' 12" INV. W 709.23' 12" INV. E 709.33'
ST-(04)	"Nyloplast"	DOME INLET	711.95' RIM	12" INV. E 708.93' 12" INV. N 708.83'
ST-(05)	"Nyloplast"	DOME INLET	710.75' RIM	12" INV. S 707.56' 12" INV. NW 707.46'
ST-(06)	4.00' Manhole	R-2502-C	708.00' RIM	12" INV. SE 705.11' 24" INV. W 703.84' 12" INV. S 703.89' 8" INV. E 704.41'
ST-(12)	"Nyloplast"	DOME INLET	712.70' RIM	12" INV. W 709.80'
ST-(13)	"Nyloplast"	DOME INLET	712.75' RIM	12" INV. W 709.60' 6" INV. NE 709.85' 6" INV. E 710.00'
ST-(14)	"Downspout Boot"	R-4929-A1C	712.96' RIM	6" INV. SW 709.85'
ST-(15)	"Downspout Boot"	R-4929-A1C	712.96' RIM	6" INV. W 710.00'

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Project No. 2021-178.YPL  
Project Date 12.01.2023  
Produced RR

Kyle E. Miller  
REGISTERED PROFESSIONAL ENGINEER  
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#	Revision	Date
A1	Addendum #1	01.09.2024

5640 N ILLINOIS ST,  
INDIANAPOLIS, IN 46208

**KEY PLAN**

**THE RIVIERA CLUB**

Youth Pool and  
Equipment Building

UTILITY PLAN  
CU101

**1A** UTILITY PLAN  
1" = 30'

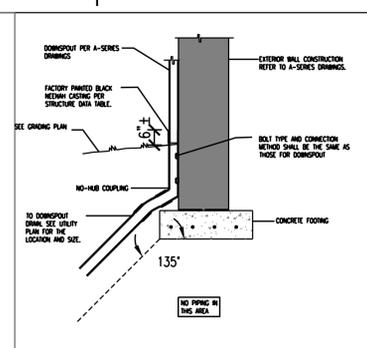


FIGURE 504-01: Typical Waterway Cross-Sections

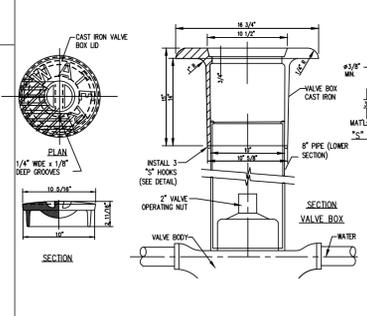


FIGURE 501-07: Reinforced Concrete Horizontal Elliptical Pipe Bedding Detail

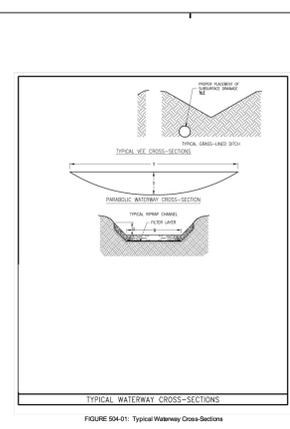


FIGURE 501-06: Reinforced Concrete Vertical Elliptical Pipe Bedding Detail

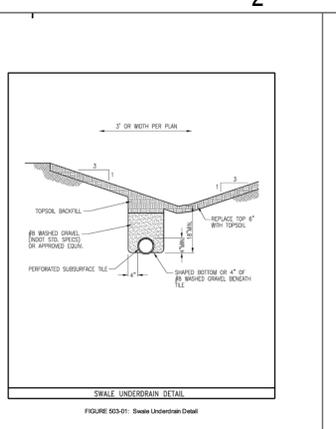
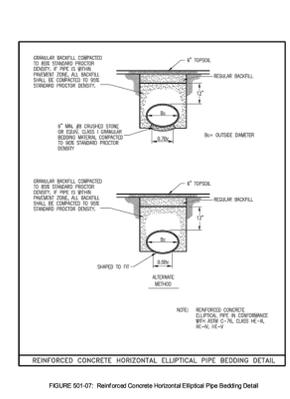


FIGURE 501-05: Reinforced Concrete Vertical Elliptical Pipe Bedding Detail

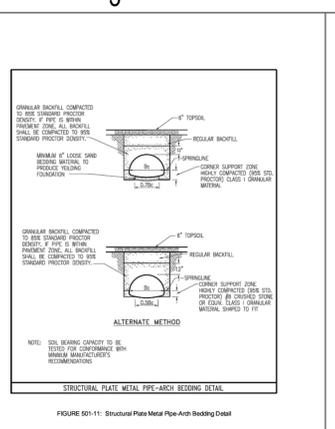
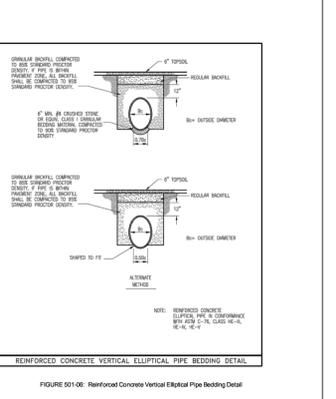


FIGURE 501-05: Reinforced Concrete Vertical Elliptical Pipe Bedding Detail

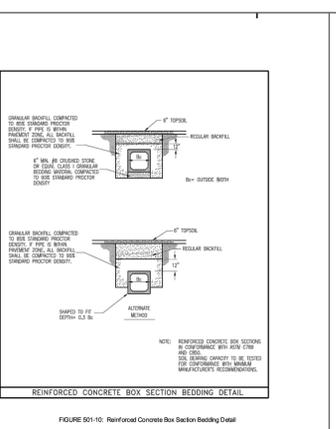
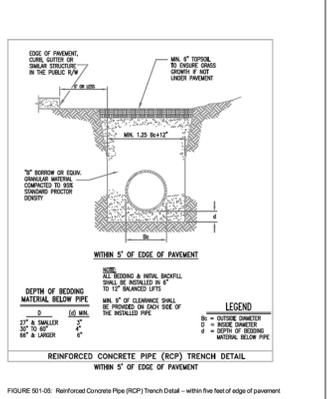


FIGURE 501-05: Reinforced Concrete Vertical Elliptical Pipe Bedding Detail

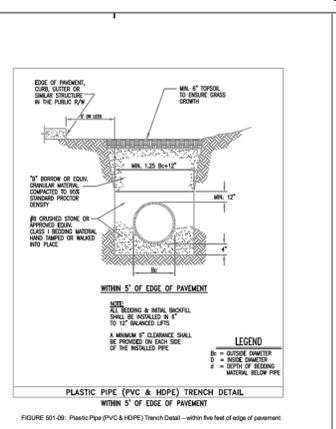
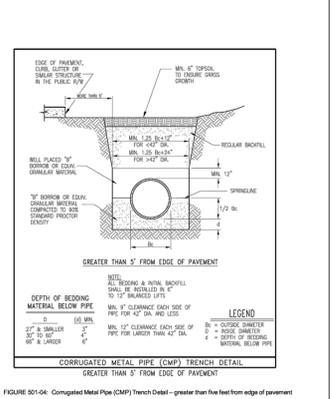


FIGURE 501-05: Reinforced Concrete Vertical Elliptical Pipe Bedding Detail

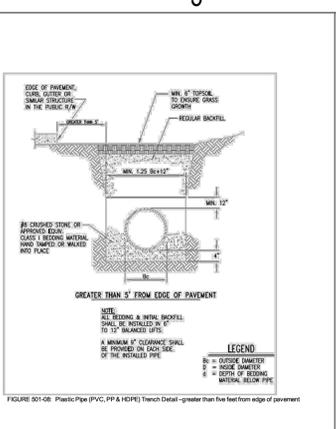
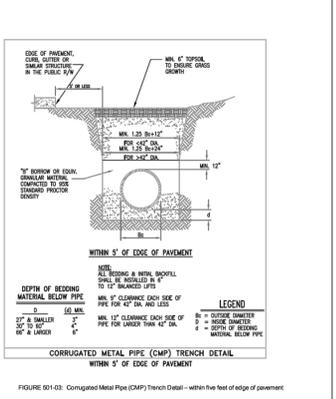
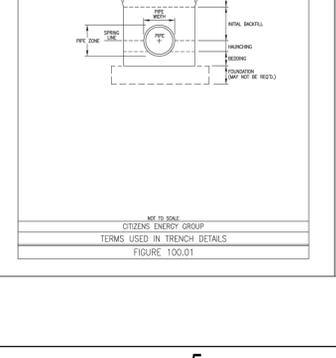
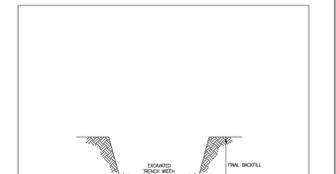
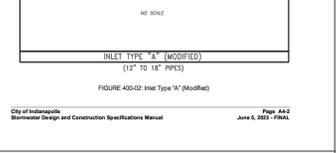
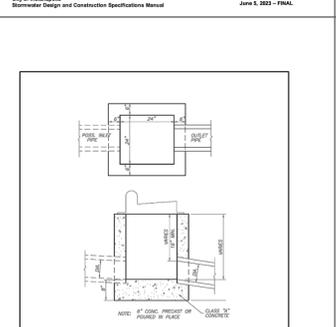
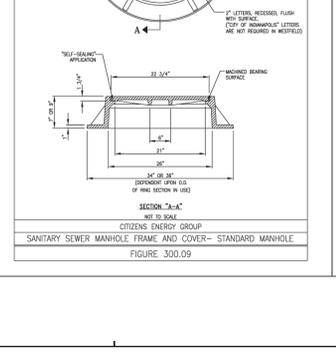
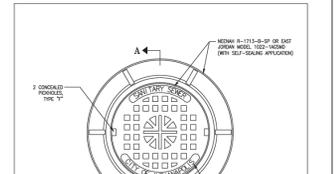
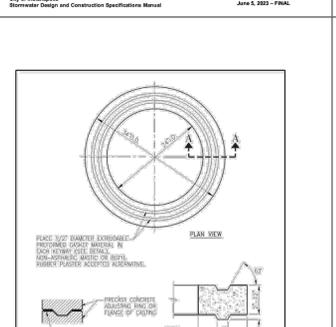
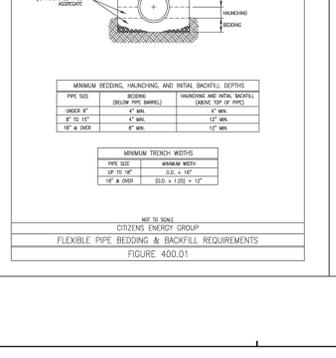
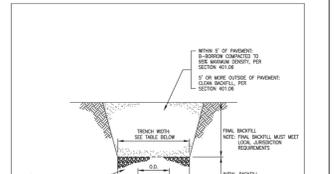
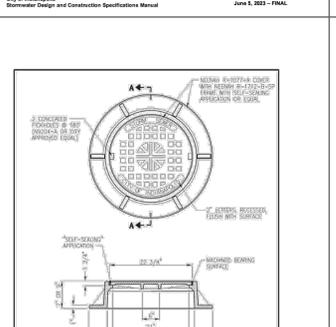
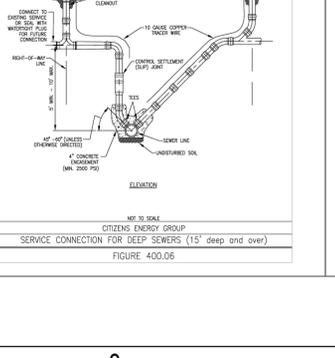
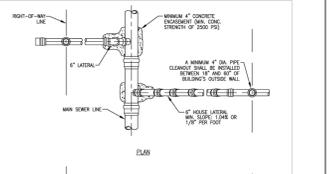
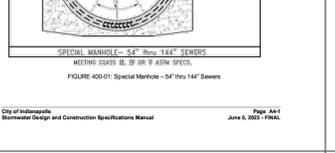
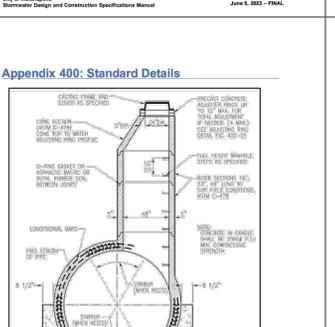
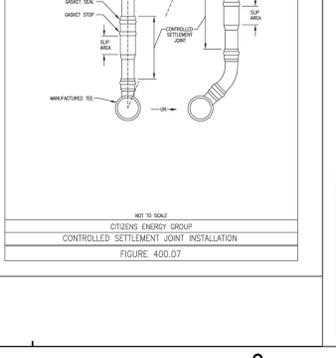
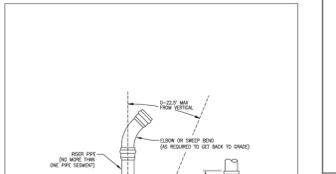
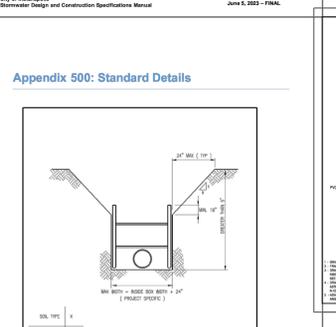
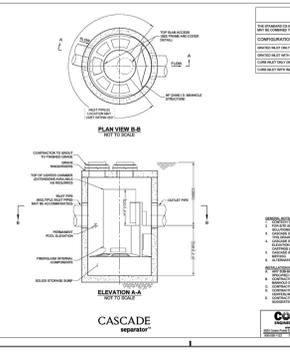
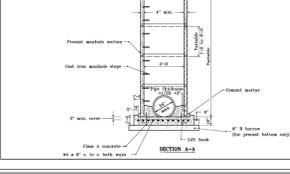
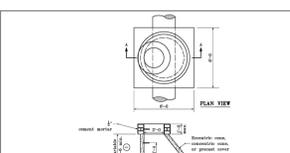
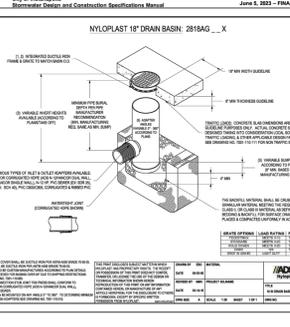
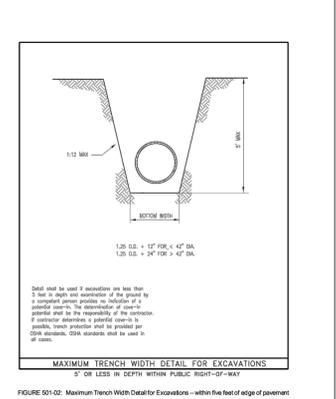


FIGURE 501-05: Reinforced Concrete Vertical Elliptical Pipe Bedding Detail



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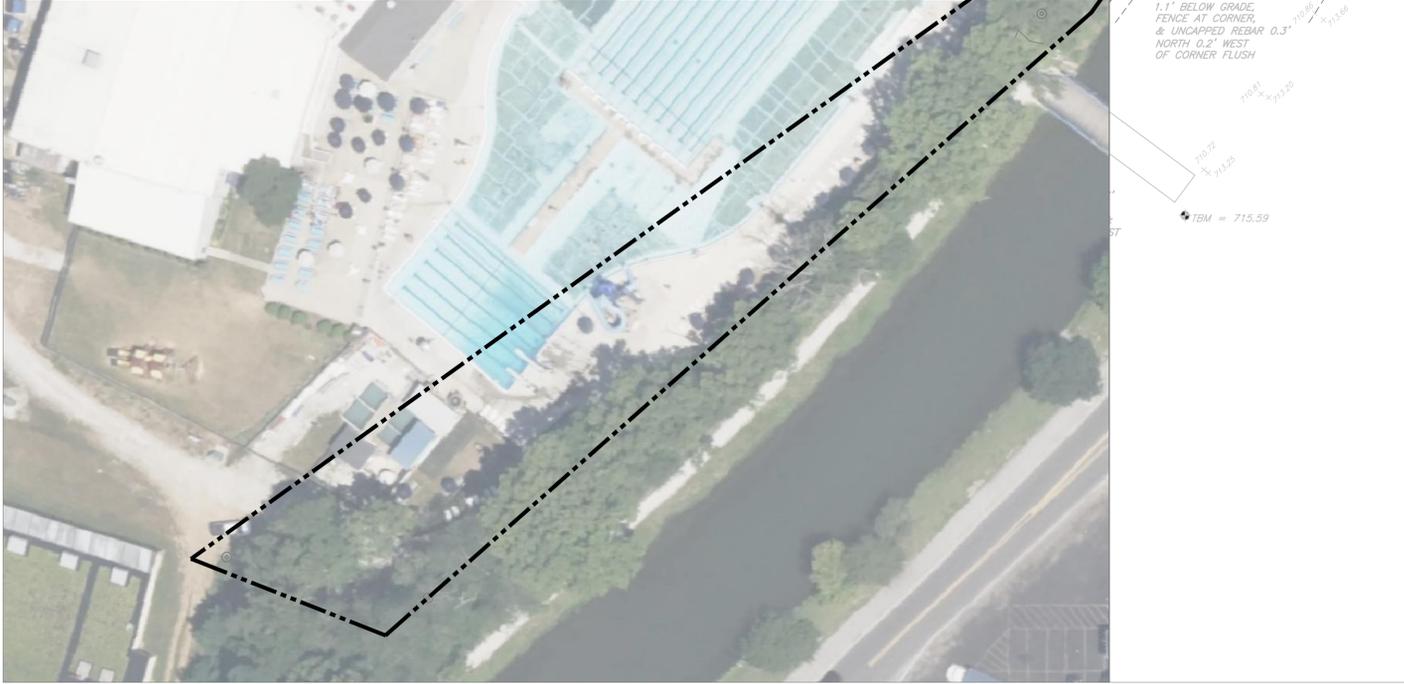
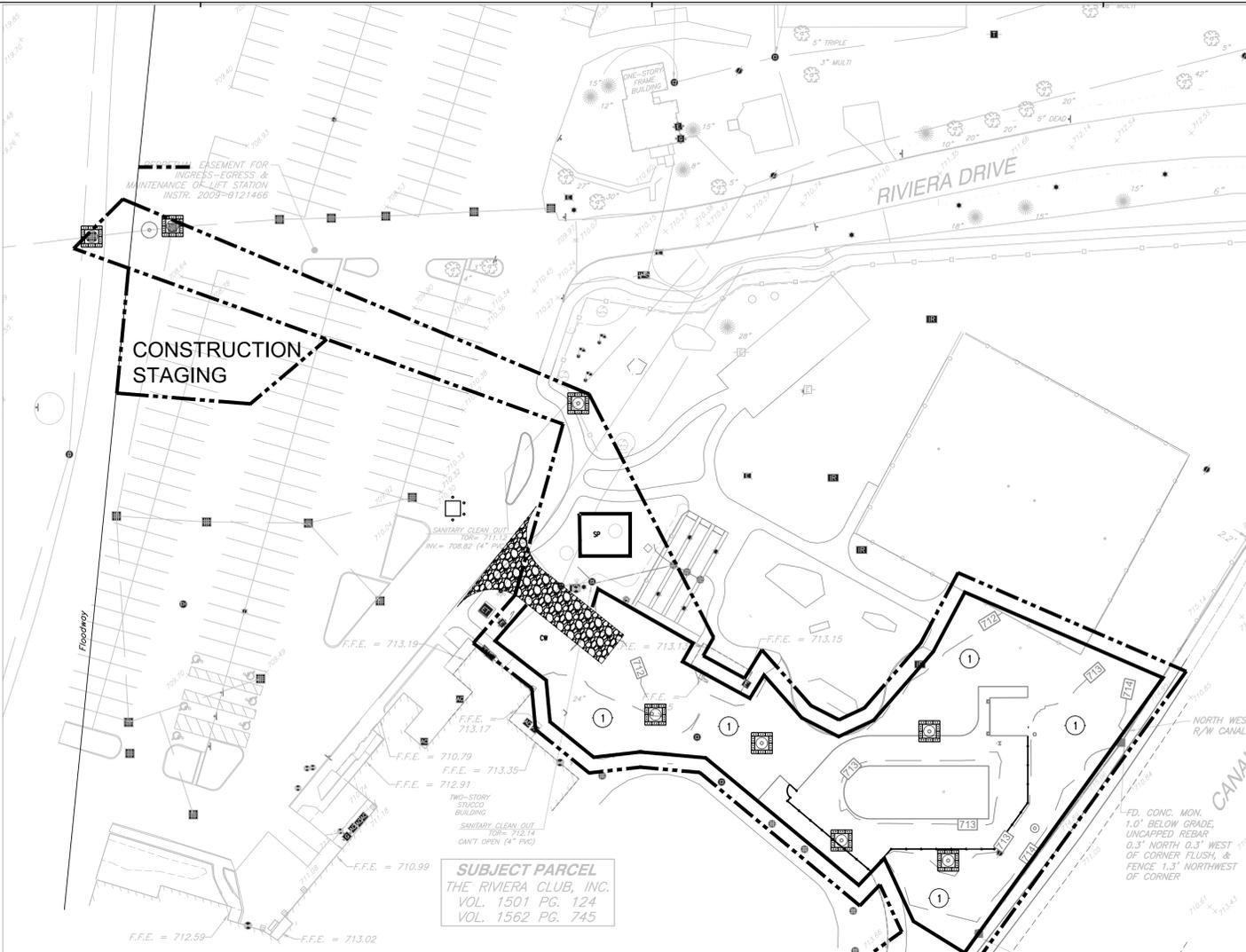
1

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**EROSION CONTROL GENERAL NOTES**

1. ALL PROPOSED EROSION AND SEDIMENT CONTROL SHALL BE IN CONFORMANCE WITH CHAPTER 600 OF THE CITY OF INDIANAPOLIS STORMWATER DESIGN AND SPECIFICATIONS MANUAL, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS SET FORTH IN THE MANUAL.
2. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED BY IDEM, MCSW AND OR THE CITY INSPECTOR.
3. PUBLIC AND PRIVATE ROADWAYS SHALL BE KEPT CLEARED OF ACCUMULATED SEDIMENT. BULK CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER. PROJECTS SUBJECT TO IDEM'S GCP SHALL REMOVE SEDIMENT FROM PUBLIC RIGHTS-OF-WAY NOT EXCLUSIVE OF CONSTRUCTION TRAFFIC AT THE END OF EACH DAY PER THE CSOP REQUIREMENTS.

**EROSION CONTROL LEGEND**

- INLET PROTECTION, SEE DETAILS
- CONSTRUCTION ENTRANCE, SEE DETAILS
- CONSTRUCTION LIMITS LINE
- SILT FENCE
- CONCRETE WASHOUT, SEE DETAILS
- STOCK PILE (SEE DETAILS)

**EROSION CONTROL NOTES**

- ① SEED ALL DISTURBED AREAS

**1A** EROSION CONTROL PLAN  
1" = 40'



Project No. 2021-178.YPL  
Project Date 12.01.2023  
Produced RR



#	Revision	Date
A1	Addendum #1	01.09.2024

5640 N ILLINOIS ST,  
INDIANAPOLIS, IN 46208



**THE RIVIERA CLUB**



**Youth Pool and Equipment Building**

EROSION CONTROL PLAN

**CE101**

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**B9 DEWATER APPLICATIONS AND MANAGEMENT METHODS.**  
 DEWATERING IS NOT ANTICIPATED, IF IT IS DETERMINED FOLLOW THESE STEPS:  
 1. LOWER GROUND-WATER LEVEL WITH PUMPS.  
 2. INSTALL WELLS POINTS WITH PUMPS WITH STANDBY POWER. USE FILTERS TO PREVENT SANDS OR SILTS FROM SUBSURFACE. PUMPING SHALL NOT CAUSE EROSION OR FOAM AND SHALL NOT BE ON A STEEP GRADE.  
 3. ALL WATER REMOVED OR PUMPED SHALL BE REMOVED IN A MANNER TO AVOID PUBLIC HEALTH ISSUES.  
**B10 MEASURES UTILIZED FOR WORK WITHIN WATERBODIES.**  
 NONE.

**B11. MAINTENANCE GUIDELINES FOR EACH PROPOSED TEMPORARY STORMWATER QUALITY MEASURE.**  
 PER IDEM STORMWATER QUALITY MANUAL AND BELOW.

**SILT FENCE MAINTENANCE REQUIREMENTS**  
 1. Inspect the silt fence weekly, and within 24 hours of storm events.  
 2. If fence fabric tears, starts to decompose or in any way becomes ineffective, replace the affected portion immediately.  
 3. Remove deposited sediment when it reaches half the height of the fence at its lowest point or is causing the fabric to bulge.  
**TEMPORARY INLET PROTECTION MAINTENANCE REQUIREMENTS**  
 1. Inspect temporary inlet after each storm event and immediately repair any erosion and piping holes.  
 2. If fabric tears, starts to decompose or in any way becomes ineffective, replace the affected portion immediately.  
 3. Remove deposited sediment when it reaches half full.  
**EROSION CONTROL BLANKET (SURFACE APPLIED) MAINTENANCE REQUIREMENTS**  
 1. During vegetative establishment, inspect after each storm event for any erosion below the blanket.  
 2. If any area(s) shows erosion, pull back that portion of the blanket covering it, reseed the area and relay and staple the blanket.  
 3. After vegetative establishment check the treated area periodically.  
**TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS**  
 1. Inspect entrance pad and sediment disposal area weekly and after storm events or heavy use.  
 2. Reshape as needed for drainage and runoff control.  
 3. Topdress with clean stone as needed.  
 4. Immediately remove mud and sediment tracked or washed onto streets by brushing or sweeping.  
**TEMPORARY CONCRETE WASHOUT MAINTENANCE REQUIREMENTS**  
 1. Clean concrete washout when washout water is 50% full and if not evaporated it needs to be removed.  
 2. Dispose of concrete per local requirements.

**B12. PLANNED CONSTRUCTION SEQUENCE DESCRIBING THE RELATIONSHIP BETWEEN IMPLEMENTATION OF STORMWATER QUALITY MEASURE IN REACTION TO LAND DISTURBANCE.**  
 1. Conduct preconstruction meeting with Construction Compliance Inspector.  
 2. Call the Indiana Underground Plant Protection systems, Inc. ("Holey Moley") at 811 to check the location of any existing utilities. They should be notified two working days before construction takes place.  
 3. post 1 silt fence shall be installed at the edges of the project site where there is potential for any stormwater runoff.  
 4. Inlet protection shall be installed.  
 5. Evaluate, mark and protect important trees and associated root zones. Evaluate existing vegetation suitable.  
 6. A construction entrance shall be placed per the plan location.  
 7. Establish construction staging area for equipment and vehicles.  
 8. Establish onsite location for approved plans/SWPPP plans and postings.  
 9. Establish SWPPP documents and reports.  
 10. Once erosion and sediment control measures are in place, begin land clearing followed immediately by rough grading. Do not leave large areas unprotected for more than 7 days.  
 11. Conduct SWPP inspections.  
 12. After grading, seed all disturbed areas.  
 13. Install utilities including Storm sewers, etc.  
 14. Install inlet protections on new storm structures.  
 15. Final Grade and Final Seed all areas.

**B13. PROVISION FOR EROSION AND SEDIMENT CONTROL ON INDIVIDUAL BUILDING LOTS REGULATED UNDER THE PROPOSED PROJECT.**  
 NONE.

**B14. MATERIAL HANDLING AND SPILL PREVENTION AND SPILL RESPONSE PLAN MEETING THE REQUIREMENT IN 327 IAC2-6.1**  
 1. IF ANY SPILL EXCEEDS THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT LEVELS, THE CONTRACTOR SHALL ENGAGE A QUALIFIED ENVIRONMENTAL CLEAN UP CONTRACTOR TO DISPOSE OF CONTAMINATED AREAS AS REQUIRED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT. ALL CLEAN OUT OF CONCRETE TRUCKS SHALL ALSO BE DONE A MINIMUM OF 50 FEET FROM ANY STORM INLET, DRAINAGE SWALE OR EXCAVATED POND.  
 1. Any personnel observing a spill will immediately instigate the following procedure:  
 Dialing "0" from any telephones.  
 Notify the appropriate emergency personnel.  
 2. The Emergency Coordinator will then take the following actions:  
 Barricade the area allowing no vehicles to enter or leave the spill zone.  
 Notify the Indiana Department of Environmental Management, Office of Emergency Response by calling the appropriate telephone number: Office: 317-233-7745.  
 Notify National Response Center at 800-424-8802  
 Notify bureau of Water Quality - (765)747-4896

**B15. MATERIAL HANDLING AND STORAGE PROCEDURES ASSOCIATED WITH CONSTRUCTION ACTIVITY.**  
 Only keep enough material on site to complete the job, make sure you have secondary containment and see sheet CE101 for layout.

**Seasonal Soil Protection Chart:**

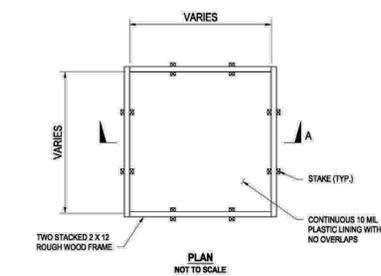
Stabilization practice	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Permanent seeding M			A									
Temporary seeding M			C					D				

- A = Kentucky bluegrass 40 lbs/acre; Creeping red fescue 40 lbs/acre; plus 2 tons straw mulch/acre, or add annual ryegrass 20 lbs/acre.
  - B = Kentucky bluegrass 60 lbs/acre; Creeping red fescue 60 lbs/acre; plus 2 tons straw mulch/acre, or add annual ryegrass 30 lbs/acre.
  - C = Spring oats 3 bushel/acre
  - D = Wheat or rye 2 bushel/acre
  - E = Annual ryegrass 40 lbs/acre
- \*// Irrigation needed during June, July, and/or September  
 \*\* Irrigation needed for 2 to 3 weeks after applying sod  
 M = MULCH  
 NOTE: IF AREA IS TO BE IDLE FOR 7 DAYS TEMPORARY OR PERMANENT STABILIZATION IS REQUIRED STABILIZATION MUST BE COMPLETE WITHIN 14 DAYS AFTER INITIATION.

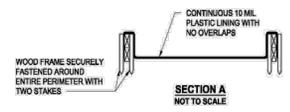


## Concrete Wash and Waste Management





**PLAN**  
NOT TO SCALE



**SECTION A**  
NOT TO SCALE

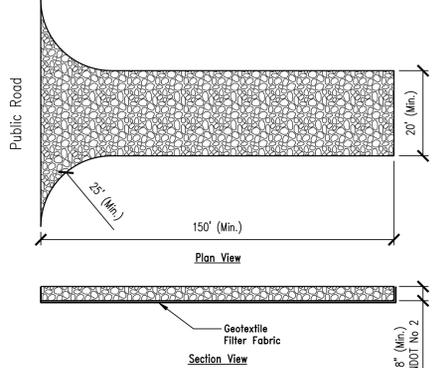
**WASH AREA (ABOVE GRADE)**

**NOTES:**

- ACTUAL LAYOUT DETERMINED IN FIELD.
- THE SIZE OF THE CONCRETE WASHOUT SHALL BE DETERMINED BY THE ANTICIPATED AMOUNT OF CONCRETE WASTE TO BE STORED.
- THE PLASTIC LINING MUST BE A CONTINUOUS SHEET WITH NO OVERLAPS.

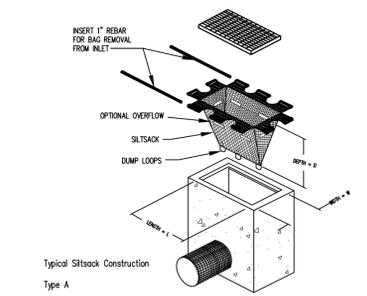
State of Hawaii Department of Transportation  
 Construction BMP Field Manual, October 2021

22

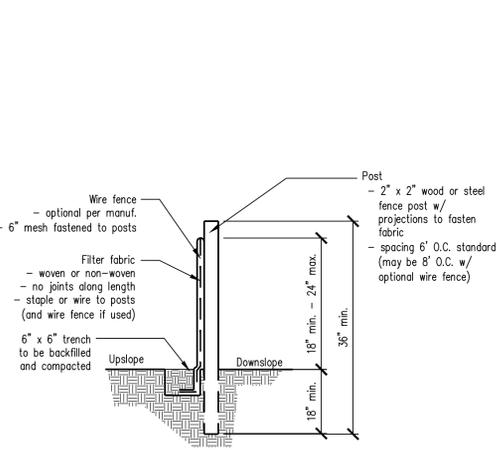


- Maintenance:**
- Inspect weekly, and after storm events or heavy use.
  - Reshape as needed for drainage and runoff control.
  - Topdress with clean stone as required. Maintain minimum depth through construction.
  - Immediately remove mud and sediment tracked or washed onto public roads by sweeping or brushing.
  - Repair any broken pavement immediately.

**STABILIZED CONSTRUCTION ENTRANCE**  
 NOT TO SCALE - PRACTICE 3.01



**Inlet Protection**  
 Not to Scale



- Maintenance:**
- Inspect silt fence periodically (weekly) and after each storm event.
  - If fabric is torn or damaged or in any way becomes ineffective, replace the affected portion immediately.
  - Remove deposited sediment when it reaches half the height of the fence, or it is causing the fabric to bulge.
  - Take care not to undermine the fence during sediment removal.
  - After the contributing area has been stabilized, remove the fence and remaining sediment, bring the disturbed area to grade, and stabilize.

**Silt Fence Section**  
 NOT TO SCALE - PRACTICE 3.74



**SCHMIDT ASSOCIATES**  
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 Indianapolis, IN 46204  
 www.schmidt-arch.com

Project No. 2021-178.YPL  
 Project Date 12.01.2023  
 Produced RR



*Kyle E. Miller*

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#	Revision	Date
A1	Addendum #1	01.09.2024

5640 N ILLINOIS ST,  
 INDIANAPOLIS, IN 46208

**KEY PLAN**



**THE RIVIERA CLUB**



**Youth Pool and Equipment Building**

**EROSION CONTROL DETAILS**

**CE501**

DOOR & FRAME SCHEDULE															
MARK	TYPE	QTY	DOOR PANEL			FRAME			MARK	MATL	GLAZ	LABEL	HDWR SET	NOTES	MARK
			MATL	GLAZ	SIZE	MARK	MATL	GLAZ							
					H	W	TH								
50	F	1	SS	--	7'-0"	3'-8"	0'-1 3/4"	F1	SS	--				1	50
51	F	2	HM	--	7'-0"	6'-0"	0'-1 3/4"	F1	HM	--			01		51

**GENERAL NOTES**

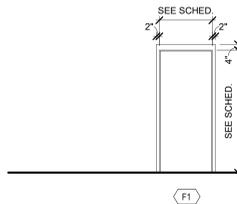
- A. This Door Schedule(s) is furnished for whatever assistance it may afford the Contractor. Do not consider it as entirely inclusive. Carefully examine the Drawings (especially the Floor Plans) and the Specifications to determine the extent of door and frame quantities required (including interior 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**

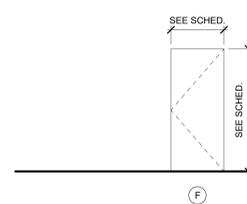
- AL Aluminum
- HM Hollow Metal
- SS Stainless Steel
- ST Steel
- WD Wood
- TG Tempered Glazing
- IG Insulated Glazing
- LG Laminated Glazing
- FG Frosted Glazing
- SP Spandrel Panel

**DOOR & FRAME SCHEDULE NOTES**

- 1. 093919 Watertight stainless steel door. Door hardware by door manufacturer. Provide high-performance coating.



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



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

**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**

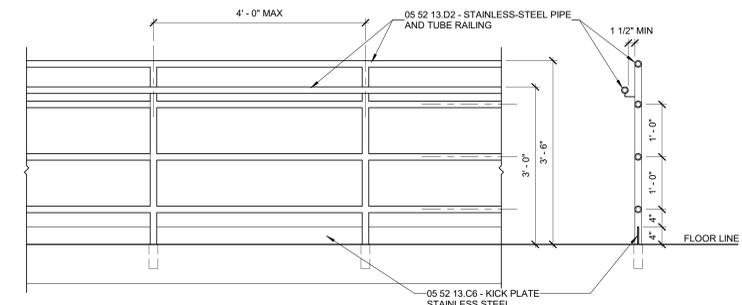
#	Note
1	077100 - 8" METAL GUTTER

**General Plan Notes**

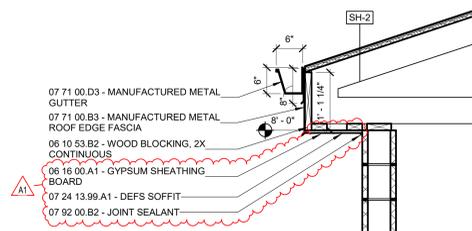
- A. All dimensions shown are to face of stud or masonry, unless noted otherwise. Dimensions designated as "CLR" or "clear" indicate a clear dimension from face of finish to face of finish. Dimensions of exterior walls are to outside edge of foundation.
- B. All openings for Mechanical, Plumbing, Fire 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 "XXX", 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**

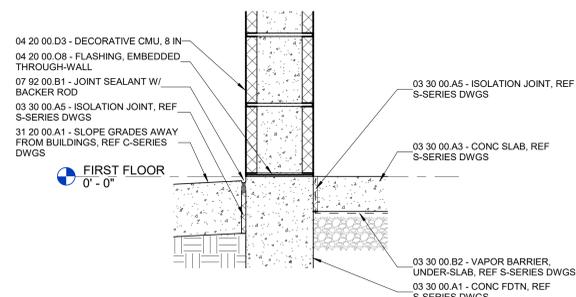
#	Note
1	07 71 00 - ALUMINUM DOWNSPOUT, 3X4. REFER TO C-SERIES DWGS. FOR BOOT CONNECTION.
2	05 52 13 - RAILING TYPE B
3	STAINLESS STEEL LADDER
4	07 16 16 - CRYSTALLINE WATERPROOFING, FULL HEIGHT OF WALLS.
5	08 95 43 - FLOOD VENT. INSTALL 1 COURSE ABOVE FLOOR, CENTERED ON WALL TO NEAREST MASONRY JOINT.



**2C RAILING DETAIL TYPE "B" UTILITY**  
3/4" = 1'-0"

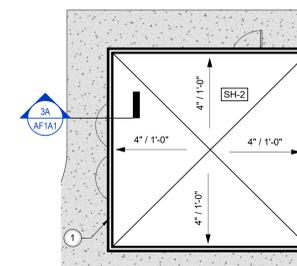


**2B ROOF TYPE - SH-2**  
1 1/2" = 1'-0"

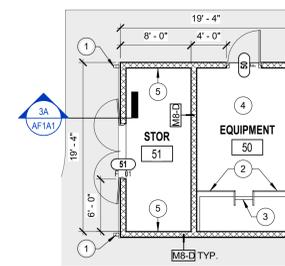


**4A FOUNDATION**  
1 1/2" = 1'-0"

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



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



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



Project No. 2021-178.YPL  
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Produced BFM TM



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#	Revision	Date
A1	Addendum 1	01.10.2024

5640 N Illinois St  
Indianapolis, IN 46208

KEY PLAN

The Riviera Club

THE RIVIERA CLUB  
EST. 1933



Youth Pool and  
Equipment Building

OUTDOOR EQUIPMENT  
BUILDING

AF1A1

**GENERAL NOTES:**

(SOME NOTES MAY NOT BE APPLICABLE TO THIS PROJECT.)

**GENERAL CONDITIONS:**

- THE DESIGN DEVELOPMENT DRAWINGS HEREIN DESCRIBED WERE PREPARED FOR THE AQUATIC CONTRACTOR TO CONVEY THE TYPE AND QUALITY OF AQUATIC SYSTEMS FOR THIS PROJECT AS DESIRED BY THE OWNER. THEIR INTENDED PURPOSE IS TO ESTABLISH A MINIMUM LEVEL STANDARD OF QUALITY FOR THE SYSTEMS AND EQUIPMENT TO BE UTILIZED IN CONSTRUCTION OF THE POOL.

APPROVED AQUATIC CONTRACTORS WILL BE SOLICITED TO SUBMIT QUOTATIONS FOR THE INTENDED WORK DESCRIBED AND AS SHOWN ON THESE DRAWINGS. CONTRACTORS WILL BE ALLOWED TO SUBMIT FOR SUBSTITUTION CERTAIN EQUIPMENT AND/OR MATERIAL ITEMS FOR APPROVAL BY THE OWNER'S REPRESENTATIVE BUT IN ALL CASES ANY SUBSTITUTIONS ARE TO BE EQUAL TO OR BETTER THAN THE SPECIFIED EQUIPMENT OR SYSTEMS SHOWN ON THESE DRAWINGS.

ALL CONTRACTORS BIDDING THIS PROJECT MUST HAVE A MINIMUM OF 10 YEARS OF EXPERIENCE AS AN AQUATIC CONTRACTOR AND MUST HAVE BUILT 10 PROJECTS OF EQUAL OR GREATER SIZE.

ALL WORK SHOWN ON THESE DRAWINGS SHALL BE BY THE AQUATIC CONTRACTOR UNLESS OTHERWISE SPECIFIED. GENERALLY THE AQUATIC CONTRACTOR (AQC) IS RESPONSIBLE FOR PROVIDING THE CONCRETE POOL ENVELOPE, THE MECHANICAL SYSTEMS AND WATER TREATMENT SYSTEMS CONNECTED TO IT. THE AQC IS RESPONSIBLE FOR COORDINATING HIS OWN WORK AND RELATED WORK WITH OTHER TRADES AS DIRECTED BY THE CONSTRUCTION MANAGER.

THE AQC SHALL PREPARE ENGINEER CERTIFIED DIMENSIONED CONSTRUCTION DRAWINGS SHOWING ALL ELEMENTS OF THE CONCRETE REINFORCING, EXPANSION JOINTS, WATER STOPS AND FINISH WORK FOR REVIEW BY THE OWNER'S REPRESENTATIVE. HE SHALL ALSO SUBMIT CERTIFIED DRAWINGS FOR ALL THE MECHANICAL AND ELECTRICAL SYSTEMS RELATED TO THE AQUATIC WORK AS SHOWN ON THE DRAWINGS. ALL AQUATIC WORK SHALL COMPLY WITH THE LATEST INDIANA SWIMMING POOL CODE.

METHODS AND MEANS FOR THE CONSTRUCTION OF THE AQUATIC FACILITIES SHALL BE IN ACCORDANCE WITH THE GUIDELINES ESTABLISHED BY THE CONSTRUCTION MANAGER. ALL OSHA AND INDUSTRY SAFETY STANDARDS SHALL BE IMPLEMENTED BY THE AQC AS IT RELATES TO HIS WORK.

ALL SUBMITTAL AND PERMIT FEES FOR THE AQUATIC WORK ASSOCIATED WITH THIS PROJECT ARE THE AQC'S RESPONSIBILITY UNLESS OTHERWISE BY THE CONSTRUCTION MANAGER.

- COORDINATE ALL WORK WITH ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS.
- VERIFY EQUIPMENT PAD HEIGHT REQUIREMENTS FROM MANUFACTURER & PROVIDE SHOP DRAWINGS AS REQUIRED BY PROJECT SPECIFICATIONS.
- VERIFY ALL OPENINGS, PENETRATIONS & ELEVATIONS AND PROVIDE SHOP DRAWINGS AS REQUIRED BY PROJECT SPECIFICATIONS.
- COORDINATE ALL PIPING AND EMBEDMENTS WITH AFFECTED TRADES.
- REFER TO ARCHITECTURAL PLANS FOR ACTUAL BUILDING DIMENSIONS & ELEVATIONS.
- SUPPORT PIPES PER CODE.
- WATER SUPPLY PIPE TO HAVE A MIN. 6" FREE FALL TO FILL FUNNEL OR CONNECTED WITH AN APPROVED BACKFLOW PREVENTER AS SHOWN ON DRAWINGS.

**PIPING:**

- ALL PIPING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE INDIANA STATE PLUMBING CODE, INDIANA SWIMMING POOL AND INDIANA DEPT. OF PUBLIC HEALTH CODE.
- ALL PIPING UNLESS NOTED OTHERWISE SHALL BE SCHEDULE 80 BEARING THE A.S.T.M. DESIGNATION NUMBER D-1785, AND THE NSF SEAL FOR POTABLE WATER.
- ALL PIPING SHALL BE DESIGNED AS FOLLOWS:
  - 6 FT. PER SECOND MAXIMUM PUMP SUCTION PIPING,
  - 8 FT. PER SECOND MAXIMUM PUMPED RETURN PIPING,
  - 3 FT. PER SECOND MAXIMUM MAIN DRAIN PIPING.
- PIPE SHALL BE PITCHED AS REQUIRED TO ALLOW AIR TO FLOW TO A HIGH POINT FOR RELEASE.
- ALL PIPING SHALL SLOPE AS REQUIRED TO ALLOW GRAVITY DRAINAGE WHERE WINTERIZATION IS A CONSIDERATION. ALL ELEVATIONS TO BE FIELD VERIFIED TO ALLOW FOR PROPER PITCH AND DRAINAGE. PITCH - APPROX. 1/4" TO 1". POOL CONTRACTOR SHALL MAKE EVERY EFFORT TO CURTAIL THE USE OF FITTINGS TO REDUCE HEAD LOSS.
- CONNECTIONS BETWEEN METALLIC PIPING AND/OR EQUIPMENT & THE PVC PIPING SHALL BE FLANGED.
- ALL MECHANICAL EQUIPMENT TO BE CONNECTED TO THE SWIMMING POOL RECIRCULATION PIPING SHALL BE DONE SO USING FLANGED OR UNION CONNECTIONS.

**MAIN DRAINS (SUCTION DRAINS):**

- DRAINS SHALL COMPLY WITH THE "VIRGINIA GRAEME BAKER POOL AND SPA SAFETY ACT", CONSUMER PRODUCT SAFETY COMMISSION ACT (15 U.S.C. 2051 ET SEQ.) AND MEET ASME/ANSI A112.19.8 PERFORMANCE STANDARDS.
- ALL DRAIN FITTINGS TO CARRY 100% OF RECIRCULATION RATE AT A VELOCITY NOT TO EXCEED 1 FT. PER SECOND THROUGH THE CLEAR AREA OF THE GRATE PER INDIANA POOL CODE STANDARDS.
- DRAIN LOCATIONS SHALL BE LOCATED AND PIPED PER INDIANA POOL CODE STANDARDS.

**GAUGES:**

- PRESSURE GAUGES TO BE INSTALLED ON ALL PUMP DISCHARGES.
- COMPOUND GAUGES TO BE INSTALLED AT THE INTAKE PORT OF THE PUMP, AFTER THE HAIR AND LINT STRAINER.
- GAUGES TO BE LIQUID FILLED, 316 STAINLESS STEEL BOURDON TYPE WITH 4" MIN. DIAM.
- A FILTER TYPE SNUBBER SHALL BE PROVIDED FOR EACH GAUGE.

**VALVES:**

- PROVIDE GEAR OPERATED BUTTERFLY VALVES FOR ALL POOL, GUTTER & DRAIN LINES
- A GEAR OPERATOR SHALL BE PROVIDED FOR ALL VALVES WHICH ARE GREATER THAN 8" IN DIAMETER
- A CHAIN DRIVE SHALL BE PROVIDED AT VALVES WHICH ARE LOCATED AT A HEIGHT OF 7'-0" OR GREATER ABOVE FINISHED FLOOR
- A STAINLESS STEEL REACH ROD AND HANDLE SHALL BE PROVIDED FOR ANY VALVE WHICH IS LOCATED WITHIN A PIT, FILTERS OR BELOW GRADE OR NOT READILY ACCESSIBLE.

**FLOWMETERS:**

- ANALOG FLOWMETER SHALL BE PROVIDED IN THE MAIN RECIRCULATION LINE AFTER THE POOL FILTER(S) & EACH INLET RETURN LINE. INSTALL ON A STRAIGHT LENGTH OF PIPE AT A DISTANCE OF AT LEAST 10 PIPE DIAMETERS DOWNSTREAM & 5 PIPE DIAMETERS UPSTREAM FROM ANY VALVE, ELBOW OR OTHER SOURCE OF TURBULENCE OR PER MANUFACTURER'S SPECIFICATIONS
- AN IMPACT FLOWMETER(S) MAY BE USED TO VERIFY INDIVIDUAL EQUIPMENT REQUIREMENTS.

**FILTERS:**

- FILTER SHALL BE PROVIDED WITH THE FOLLOWING APPROPRIATELY LOCATED ACCESSORIES: PRESSURE GAUGES, BACKWASH SIGHT GLASS ON BACKWASH WASTE DISCHARGE LINE, AN AIR RELIEF VALVE AT THE HIGH POINT OF THE FILTER PIPE TO WITHIN 6" A.F.F./A.G., DRAIN VALVE, AND ASSOCIATED PIPING.

**PIPE AND VALVE IDENTIFICATION:**

- EXPOSED PIPING SHALL BE IDENTIFIED WITH PRE-PRINTED SELF-ADHESIVE VINYL LABELS WITH LETTERING APPROPRIATE TO THE PIPE SIZE SIMILAR TO "SETON" PIPE MARKERS.
- PRE-PRINTED ARROW LABEL ARROWS INDICATING THE DIRECTION OF FLOW SHALL BE SHOWN ON ALL RECIRCULATION PIPING WITH PRE-PRINTED, SELF-ADHESIVE VINYL ARROW LABELS SIMILAR TO "SETON" PIPE MARKERS.
- ALL VALVES SHALL BE IDENTIFIED WITH MIN. 1 1/2" DIA. BRASS TAGS STAMPED WITH MIN. 1/2" HIGH NUMBERS & ATTACHED TO VALVES WITH #16 BRASS JACK CHAIN.
- VALVES SHALL BE DESCRIBED AS TO THEIR FUNCTION & REFERENCED IN THE OPERATING MANUAL & THE LAMINATED WALL MOUNTED PIPING DIAGRAM PREPARED BY THE AQUATICS CONSULTANT.

**PIPE SUPPORT**

- ALL PIPING WILL BE SUPPORTED BY BLOCKING AND/OR FRAMING & HANGERS AS REQUIRED TO ELIMINATE ANY MOVEMENT DURING OPERATION OR AT THE RE-START OF THE PUMPS.
- ALL PIPE HANGERS, PIPE SUPPORTS, THREADED ROD, HARDWARE, FASTENERS, ETC. INSTALLED IN THE EQUIPMENT BUILDING SHALL BE ZINC PLATED, GALVANIZED STEEL OR EPOXY PAINTED.
- SUPPORT HARDWARE, BRACKETS, FASTENERS, HANGERS, ETC. INSTALLED IN INLET AREAS SHALL BE STAINLESS STEEL.
- PROVIDE THRUST BLOCKS ON ALL UNDERGROUND PIPING AT ALL ELBOWS, TEES, CHANGES IN DIRECTION OF PIPE.
- MINIMUM REQUIRED PIPING SUPPORT IN FEET:

NOM. PIPE SIZE (in)	PVC PIPE											
	Schedule 40				Schedule 80							
	Temp. °F											
1/2"	4-1/2	4-1/2	4	2-1/2	2-1/2	5	4-1/2	4-1/2	3	2-1/2		
3/4"	5	4-1/2	4	2-1/2	2-1/2	5-1/2	5	4-1/2	3	2-1/2		
1"	5-1/2	5	4-1/2	3	2-1/2	6	5-1/2	5	3-1/2	3		
1-1/4"	5-1/2	5-1/2	5	3	2	6	6	5-1/2	3-1/2	3		
1-1/2"	6	5-1/2	5	3-1/2	3	6-1/2	6	5-1/2	3-1/2	3-1/2		
2"	6	5-1/2	5	3-1/2	7	7	6-1/2	6	4	3-1/2		
2-1/2"	7	6-1/2	6	4	3-1/2	7-1/2	7-1/2	6-1/2	4-1/2	4		
3"	7	7	6	4	3-1/2	8	7-1/2	7	4-1/2	4		
4"	7-1/2	7	6-1/2	4-1/2	4	9	8-1/2	7-1/2	5	4-1/2		
6"	8-1/2	8	7-1/2	5	4-1/2	10	9-1/2	9	6	5		
8"	9	8-1/2	8	5	4-1/2	11	10-1/2	9-1/2	6-1/2	5-1/2		
10"	10	9	8-1/2	5-1/2	5	12	11	10	7	6		
12"	11-1/2	10-1/2	9-1/2	6-1/2	5-1/2	12	11	10	7	6		

**STRUCTURAL:**

POOL STRUCTURAL CONSTRUCTION SHALL BE AS DESCRIBED HERE IN AND AS SHOWN ON THE STRUCTURAL DRAWINGS AND SPECIFICATIONS.

- PROVIDE 6" MIN. FREE DRAINING GRANULAR, COMPACTED FILL BELOW SLAB.
- PROVIDE 5'x5'x2" FREE DRAINING COMPACTED GRANULAR FILL UNDER EACH MAIN DRAIN BOX.
- ALL REINFORCING, GUTTERS AND EMBEDS SHALL BE GROUND TO PREVENT SHOCK.
- ALL CONSTRUCTION SHALL FOLLOW THE CURRENT EDITION OF THE INDIANA SWIMMING POOL CODE.
- POOL DESIGN CRITERIA
  - HYDROSTATIC RELIEF VALVES (HRV) WILL BE USED IN THE MAIN DRAINS TO REDUCE HYDROSTATIC UPLIFT.
  - OWNER IS RESPONSIBLE FOR LONG-TERM MAINTENANCE AND OPERATION OF HRV'S.
  - A 6" MIN. LAYER OF FREE DRAINING COMPACTED GRANULAR FILL SHALL BE PROVIDED UNDER THE BOTTOM SLAB.
  - FILL SHOULD BE EXPOSED TO 50% OF THE DRY DENSITY IN ACCORDANCE WITH ASTM 1557
  - NON COMPACTED, FREE DRAINING GRANULAR FILL SHALL BE PROVIDED TO BACKFILL WALLS.
- ALL CONCRETE SHALL HAVE THE FOLLOWING 28 DAY COMPRESSIVE STRENGTHS:
 

LOCATION	STRENGTH	AIR ENTRAINMENT
A. ALL CONCRETE BELOW FROST LINE	4,000 PSI	6%
B. EXTERIOR SLABS, PIERS, WALLS, AND COLUMNS	4,000 PSI	6%
C. GRADE BEAMS AND CONCRETE EXPOSED TO FREEZE/THAW	4,000 PSI	6%
D. INTERIOR SLABS	4,000 PSI	2%
- ALL REINFORCING STEEL SHALL BE DETAILED, SUPPLIED AND PLACED IN ACCORDANCE WITH A CI 315-94, ACI 318-95 AND CRSI MSP-90.
- ALL REINFORCING STEEL SHALL BE SHOP FABRICATED AND, WHERE APPLICABLE, SHALL BE WIRED TOGETHER AND CONFORM TO ASTM A-615, GRADE 60.
- CHAMFER EDGES OF EXPOSED CONCRETE 3/4", UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL MAKE FOUR, 6"x12" TEST CYLINDERS FOR EACH 50 CUBIC YARDS OF CONCRETE POURED FOR EACH DAYS OPERATION. BREAK 1 AT 7 DAYS, 2 AT 28 DAYS AND RETAIN SPARE.
- FILL SHOULD BE EXPOSED TO 50% OF THE DRY DENSITY IN ACCORDANCE WITH ASTM 1185, FY(MIN.) OF 65 KSI.
- WELDED WIRE FABRIC SHALL BE 8"
- ALL FINISHED CONCRETE, CONCRETE FORM WORK SHALL BE IN ACCORDANCE WITH ACI 301-95. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL FORM WORK, FALSE WORK AND SHORING.
- PROVIDE THE FOLLOWING COVERAGE'S OVER REINFORCING: FOOTINGS:
 

BOTTOM & UNFORMED EDGES	- 3"
TOP & FORMED EDGES	- 2"
SLAB ON GRADE	- WELDED WIRE FABRIC UPPER 1/3 OF SLAB
- PROVIDE SLEEVES FOR ALL OPENINGS IN GRADE BEAMS, TO COMPLETELY ISOLATE PIPE FROM CONCRETE.

**CONSTRUCTION:**

- ALL PIPING BETWEEN POOL & FILTER EQUIPMENT SHALL BE SCHEDULE 80 PVC PIPE W/ SOLVENT WELD SOCKET FITTINGS UNLESS NOTED OTHERWISE.
- ALL MATERIALS & WORK SHALL BE FURNISHED & INSTALLED IN STRICT ACCORDANCE W/ ALL CODES, REGULATIONS, ORDINANCES, ETC., HAVING JURISDICTION OVER THIS PROJECT.
- ALL CONSTRUCTION ACTIVITY SHALL BE CONDUCTED IN ACCORDANCE W/ APPLICABLE OSHA STANDARDS FOR WORKER SAFETY.
- CONTRACTOR IS TO VERIFY EXISTING CONDITIONS IN THE FIELD.
- ALL METAL POOL COMPONENTS SHALL BE GROUND & BONDED AS REQUIRED BY THE MOST RECENT N.E.C. AS PUBLISHED BY NFPA, BY A LICENSED ELECTRICAL CONTRACTOR.
- THE SWIMMING POOL & EQUIPMENT DESIGN HAS BEEN BASED UPON THE LATEST EDITION OF INDIANA SWIMMING POOL CODE.
- PLUMBING PLAN IS SCHEMATIC ONLY.
- THE AQC SHALL COORDINATE THE PLUMBING INSTALLATIONS W/ OTHER TRADES AS REQUIRED FOR A COMPLETE & OPERABLE PLUMBING SYSTEM.
- REPAIR DISTURBED AREAS AS REQUIRED.
- DEFINITIONS:
  - "FURNISH": SUPPLY AND DELIVER TO PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS.
  - "INSTALL": OPERATIONS AT PROJECT SITE INCLUDING UNLOADING, TEMPORARILY STORING, UNPACKING, ASSEMBLING, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS.
  - "PROVIDE": FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
- CONFORM WITH ALL FEDERAL, STATE AND LOCAL CODES AND STANDARDS. THE SAME ARE MADE OF THESE CONTRACT DOCUMENTS, THE SAME AS IF REPEATED HEREIN.
- CONTRACT DOCUMENTS CONSIST OF BOTH THE PROJECT MANUAL AND DRAWINGS, AND BOTH ARE INTENDED TO BE COMPLEMENTARY - ANYTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.
- THE AQC SHALL INCLUDE IN BID PROPOSAL ALL COST REQUIRED TO COMPLETELY AND PROPERLY INSTALL ALL WORK REQUIRED FOR THIS PROJECT AND SHALL EXAMINE THE SCOPE OF THE WORK PRIOR TO SUBMITTING A BID PROPOSAL.
- CONSTRUCTION DOCUMENTS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE, HOWEVER, SYSTEMS HAVE BEEN SHOWN DIAGRAMMATICALLY AND IN SOME CASES ENLARGED FOR CLARITY. ANY OFFSETS, ADDITIONAL FITTINGS, AND/OR APPURTENANCES REQUIRED TO PROVIDE A COMPLETE AND COORDINATED SYSTEM SHALL BE BORNE BY THE AQC.
- AQC SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING OR BEGINNING WORK ON THIS PROJECT.

**ELECTRICAL:**

- ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADDITION OF THE NATIONAL ELECTRICAL CODE (NEC).
- THE AQUATIC CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ELECTRICAL CONTRACTOR ALL AQUATIC ELECTRICAL COMPONENTS FOR THE OF THE PROJECT.
- ALL LINE VOLTAGE DEVICES, I.E. STARTERS AND OR DISCONNECTS, CONDUIT AND WIRING TO AQUATIC FEATURES SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE SPECIFIED.
- THE AQUATIC CONTRACTOR SHALL PROVIDE ALL LOW VOLTAGE EQUIPMENT AND CONTROL WIRING. ALL LINE VOLTAGE CONTROL WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR.

**POOL BONDING - GENERAL:**

- ALL BONDING OF METALLIC COMPONENTS OF THE POOL, SPA, OR ANY OTHER AQUATIC DEVICE SHALL BE GROUND AND BONDED PER THE LATEST SECTION OF THE NATIONAL ELECTRIC CODE (NEC).
- WET-NICHE LIGHTING FIXTURES (LIGHT IN POOL) SHALL BE CONNECTED TO AND EQUIPMENT-GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH TABLE 250-122 BUT NOT SMALLER THAN NO. 12. IT SHALL BE AN INSULATED COPPER CONDUCTOR AND SHALL BE INSTALLED WITH THE CIRCUIT CONDUCTORS IN RIGID METAL CONDUIT, INTERMEDIATE METAL CONDUIT OR RIGID NONMETALLIC CONDUIT.
- WHERE RIGID NONMETALLIC CONDUIT IS USED (FOR LIGHT) A NO. 8 INSULATED, SOLID COPPER CONDUCTOR SHALL BE INSTALLED IN THE CONDUIT WITH PROVISIONS FOR TERMINATING IN THE FORMING SHELL, JUNCTION BOX OR TRANSFORMER ENCLOSURE OR GROUND FAULT CIRCUIT INTERRUPTER.
- THE JUNCTION BOX, TRANSFORMER ENCLOSURE, OR OTHER ENCLOSURE IN THE SUPPLY CIRCUIT TO A WET-NICHE LIGHTING FIXTURE AND THE FIELD-WIRING CHAMBER OF A DRY-NICHE LIGHTING FIXTURE SHALL BE GROUND TO THE EQUIPMENT-GROUNDING TERMINAL AT THE PANEL BOARD. THIS TERMINAL SHALL BE DIRECTLY CONNECTED TO THE PANEL BOARD ENCLOSURE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITHOUT JOINT OR SPLICE.
- ELECTRICAL EQUIPMENT OTHER THAN THE UNDERWATER LIGHTING FIXTURE AND MOTORS ASSOCIATED WITH THE POOL SHALL BE GROUNDING.
- MOTORS - POOL-ASSOCIATED MOTORS (FOR ABOVE GROUND AND IN-GROUND POOLS) SHALL BE CONNECTED TO AN EQUIPMENT-GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NEC TABLE 250-122 BUT NOT SMALLER THAN NO. 12.
- RECEPTACLES - THAT PROVIDE POWER FOR WATER PUMP MOTOR FOR A PERMANENTLY INSTALLED POOL SHALL BE PERMITTED BETWEEN 5' TO 10' FROM THE INSIDE WALLS OF THE POOL AND WHERE SO LOCATED SHALL BE SINGLE AND OF THE LOCKING AND GROUND TYPE (3 WIRE TWIST LOCK) AND SHALL BE PROTECTED BY A GROUND-FAULT CIRCUIT INTERRUPTER.
- BONDING
  - ALL METAL PARTS OF THE POOL STRUCTURE, INCLUDING THE REINFORCING METAL OF THE POOL SHELL, COPING STONES AND DECK.
  - ALL FORMING SHELLS.
  - ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL STRUCTURE.
  - METAL PARTS OF ELECTRIC EQUIPMENT ASSOCIATED WITH THE POOL WATER CIRCULATING SYSTEM.
  - METAL CONDUIT, METAL PIPING, AND ALL FIXED PARTS THAT ARE WITHIN 5 FEET OF THE INSIDE WALLS OF THE POOL AND THAT ARE NOT SEPARATED FROM THE POOL BY A PERMANENT BARRIER.
  - THESE PARTS SHALL BE CONNECTED TO A COMMON BONDING GRID WITH A SOLID COPPER CONDUCTOR, INSULATED, COVERED OR BARE, NOT SMALLER THAN NO. 8. CONNECTION SHALL BE MADE BY PRESSURE CONNECTORS OR CLAMPS OF BRASS, COPPER OR COPPER ALLOY.
- WHERE A PERMANENTLY INSTALLED POOL IN INSTALLED AT A DWELLING UNIT AT LEAST ONE 120-VOLT RECEPTACLE SHALL BE INSTALLED A MINIMUM OF 10 FEET FROM AND NO MORE THAN 20 FEET FROM THE INSIDE WALL OF THE POOL.
- THE FOLLOWING EQUIPMENT SHALL BE GROUNDING
  - WET-NICHE UNDERWATER LIGHTING FIXTURES.
  - DRY-NICHE UNDERWATER LIGHTING FIXTURES.
  - ALL ELECTRIC EQUIPMENT WITHIN 5 FEET OF THE INSIDE WALLS OF THE POOL.
  - ALL ELECTRIC EQUIPMENT ASSOCIATED WITH RE-CIRCULATING SYSTEM OF THE POOL.
  - JUNCTION BOXES.
  - TRANSFORMER ENCLOSURES.
  - GROUNDING FAULT CIRCUIT INTERRUPTERS.

- PANEL BOARDS THAT ARE NOT PART OF THE SERVICE EQUIPMENT AND THAT SUPPLY ANY ELECTRICAL ASSOCIATED WITH THE POOL.
- UNDERGROUND WIRING SHALL NOT BE PERMITTED UNDER THE POOL OR UNDER THE AREA EXTENDING 5 FEET HORIZONTALLY FROM THE INSIDE WALL OF THE POOL.
- EX. NO. 2 - WHEN SPACE LIMITATIONS PREVENT WIRING FROM BEING ROUTED 5- FEET OR MORE FROM THE POOL, SUCH WIRING SHALL BE PERMITTED WHEN INSTALLED IN RIGID METAL CONDUIT, INTERMEDIATE METAL CONDUIT OR NONMETALLIC RACEWAY SYSTEM. ALL METAL CONDUIT SHALL BE CORROSION-RESISTANT AND SUITABLE FOR THE LOCATION.
- LIGHTING FIXTURES AND LIGHTING OUTLETS INSTALLED IN THE AREA EXTENDING BETWEEN 5 FEET AND 10 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL SHALL BE PROTECTED BY A GROUND-FAULT CIRCUIT INTERRUPTER.
- BURIAL DEPTHS
  - RIGID METALLIC CONDUIT 6".
  - RIGID NON-METALLIC CONDUIT - 18"

**GENERAL ABBREVIATIONS:**

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
APPROX	APPROXIMATELY
ARCH	ARCHITECT, ARCHITECTURAL
AQC	AQUATIC CONTRACTOR
ASR	AUXILIARY SURGE RECOVERY
BFG	BELOW FINISHED GRADE
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CF	CUBIC FEET
CFH	CUBIC FEET PER HOUR
CFS	CUBIC FEET PER SECOND
CO	CLEANOUT
CONT	CONTINUATION, CONTINUED
DDC	DIRECT DIGITAL CONTROL
DEG F	DEGREES FAHRENHEIT
DN	INTERNAL DIAMETER OF PIPE DOWN
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION
F	DEGREES FAHRENHEIT
F	FRICTION FACTOR, FLOW
FFM	FINISHED FLOOR ELEVATION
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET
GAL	GALLON
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GGG	GRANS PER GALLON
GPM	GALLONS PER MINUTE
H	HEIGHT, HEAD FACTOR
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSEPOWER
HR	HOUR
IE	INVERT ELEVATION
IN	INCH
IN HG	INCHES OF MERCURY (PRESSURE)
INVT	INVERT
KW	KILOWATT
KWH	KILOWATTS PER HOUR
MC	MECHANICAL CONTRACTOR
MFR	MANUFACTURER
MIN	MINIMUM
NA	NOT APPLICABLE
NTS	NOT TO SCALE
PH	PH CHEMISTRY SCALE OF ACID/ALKALINE
PSI	PARTS PER MILLION
PMS	POUNDS PER SQUARE INCH
Q	FLOW FACTOR
RPM	REVOLUTIONS PER MINUTE
SF	SQUARE FEET
SPEC	SPECIFICATION
SS	STAINLESS STEEL
TEMP	TEMPERATURE
TP	TYPICAL
V	VELOCITY
W	WATTS
WF	WATER FEATURE

**PIPING SYMBOLS AND ABBREVIATIONS:**

— V —	VACUUM LINE
— SK —	SKIMMER LINE
— DD —	DECK DRAIN
— FR —	FILTERED RETURN
— GD —	GUTTER DRAIN
— MD —	MAIN DRAIN
— PR —	PUMPED RETURN
— PS —	PUMP SUCTION
— SK —	SKIMMER SUCTION
— AS —	AUXILIARY SURGE SUCTION PIPING
— AR —	AUXILIARY SURGE RETURN PIPING
— BW —	BACKWASH PIPE
— CL —	CHLORINE FEED LINE
— PH —	PH MODIFICATION
— S —	WATER SAMPLE
— S-O —	SHUT-OFF VALVE
— C —	CONTROL VALVE
— C —	CHECK VALVE
— P —	PRESSURE GAUGE
— V —	VACUUM GAUGE
— C —	COMPOUND VACUUM/ PRESSURE GAUGE
— U —	PIPE ELBOW UP
— D —	PIPE ELBOW DOWN
— T —	PIPE TEE
— E —	PIPE ELBOW
— B —	ELBOW WITH THRUST BLOCK/ANCHOR
— T —	TEE WITH THRUST BLOCK/ANCHOR
— F —	DIRECTION OF FLOW
— F —	DIRECTION OF SLOPE
— L —	FEED LINE
— T —	THERMOMETER

**AQUATIC ABBREVIATIONS:**

AP	ACTIVITY POOL
AQC	AQUATIC CONTRACTOR
BW	BACKWASH
CL	CHLORINE
CP	COMPETITION POOL
DD	DECK DRAIN
FD	FLOOR DRAIN
FR	FILTERED RETURN
GD	GUTTER DRAIN
MD	MAIN DRAIN
PH	PH CHEMISTRY SCALE
PR	PUMPED RETURN
PS	PUMP SUCTION
SP	SPRAY PAD
WP	WADING PUMP
AP	AUXILIARY PUMP
CO <sub>2</sub>	CARBON DIOXIDE pH ADJUSTMENT
S	SAMPLE LINE
VOGA	VIRGINIA GRAEME BAKER ACT

**NOTE DESIGNATIONS:**

- GENERAL NOTES**  
GENERAL INFORMATION FOR PROJECT.
- PLAN NOTES**  
SPECIFIC INFORMATION AS INDICATED ON A SHEET.
- LEADER LINE OF PLAN NOTE REFERENCED DIRECTED TO ITEM OF SHEET KEY NOTE REFERENCED.
- CIRCLE WITH NUMBER INDICATES A SHEET KEY NOTE REFERENCED WITH THE NUMBER INDICATING THE ITEM NUMBER OF THE SHEET KEY NOTE REFERENCED.

**DRAWINGS SYMBOLS**

— N —	NORTH ARROW DIRECTION
— D —	DETAIL NUMBER
— S —	SHEET NUMBER
— R —	REVOLUTIONS PER MINUTE
— E —	SECTION/ELEVATION LETTER
— S —	SHEET NUMBER
— E —	ELEVATION INDICATOR
— F —	EQUIPMENT DESIGNATION

**AQUATIC DRAWING SHEET INDEX**

AQ100 GENERAL NOTES

AQ200 YOUTH POOL DECK PLAN  
AQ201 YOUTH POOL UNDERGROUND PLAN

AQ300 YOUTH POOL EQUIPMENT PLAN  
AQ400 YOUTH POOL SECTIONS  
AQ500 YOUTH POOL PIPING DIAGRAM

AQ700 YOUTH POOL DETAILS  
AQ701 YOUTH POOL DETAILS  
AQ702 YOUTH POOL DETAILS  
AQ703 YOUTH POOL WATER FEATURE DETAILS

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Sarah K. Hempstead  
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YOUTH POOL DATA SCHEDULE	
ITEM	INFORMATION
POOL CLASSIFICATION	CLASS B - ZERO DEPTH WADING POOL
WATER VOLUME	16,034 GALLONS
DEPTHS	0'-0" - 1'-9"
WATER SURFACE AREA	1,988 SF
DECK AREA	APPROXIMATELY 4,500 SF
EGRESS AND INGRESS EXITS	ZERO DEPTH ENTRY
PERIMETER	192 LF (INSIDE)
TOTAL BATHER LOAD MAXIMUM	132 BATHERS (@15 SF/BATHER)
MINIMUM REQUIRED FILTRATION TURNOVER RATE	2 HOUR (133 GPM)
DESIGN FILTRATION TURNOVER RATE	1 HOUR (267 GPM)
WATER FEATURES (6 @ 115 GPM)	115 GPM
MAXIMUM RECIRCULATING RATE THROUGH MAIN DRAINS W/ FEATURES	389 GPM
SS MAIN DRAIN	(2) 14" X 14" W/4" OUTLET EACH SIZED FOR DESIGN FLOW @ 572 GPM GPM. 122.15 SQ IN 20 X 20 DRAIN COVER
MAIN DRAINS	2
ADJUSTABLE FLOOR MOUNTED RETURN INLETS	8 TOTAL
FILTERED RETURN INLETS SUPPLY SIZE 4" - RECREATIONAL AREA	8 @ 33.33 GPM EACH (267 GPM TOTAL)
SKIMMERS (NON BALANCING)	4 W/ 2" OUTLETS
WATER SUPPLY	MUNICIPAL 2"
DYNAMIC CAPACITY WITHIN POOL	>2,000 GALLONS
HI RATE SAND FILTER	14.12 SF (2 @ 7.06 SF EACH)
RECOMMENDED FILTRATION RATE	15-20 GPM/SF NSF APPROVED
ACTUAL FILTRATION RATE	18.9 GPM/SF
FILTER DRAIN	3/4"
SANITATION SYSTEM	TABLET CHLORINE
pH ADJUSTMENT	SODIUM BISULFATE W/ MIXER AND METERING PUMP

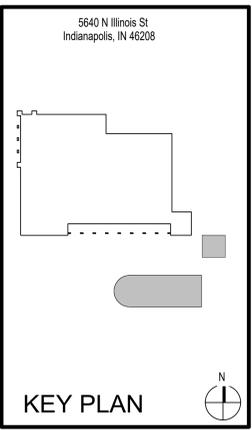
- GENERAL NOTES:**
- ALL WORK SHOWN ON THESE DRAWINGS IS BY THE AQUATIC CONTRACTOR (ACC) UNLESS OTHERWISE NOTED.
  - ALL AQUATIC WORK SHALL CONFORM TO THE LATEST INDIANA SWIMMING POOL CODE, INDIANA STATE BOARD OF HEALTH RULES, MARION COUNTY HEALTH DEPARTMENT REQUIREMENTS, ADA ACCESSIBILITY GUIDELINES FOR SWIMMING POOLS, WADING POOLS AND SPAS, AND FINA RULES WHERE REQUIRED.
  - REFER TO THE SWIMMING POOL PLAN EQUIPMENT SCHEDULE, SHEET AQ00, FOR EQUIPMENT DESCRIPTION, MANUFACTURER MODEL NUMBERS, DETAIL REFERENCE SHEETS AND NOTES ASSOCIATED WITH THE EQUIPMENT ITEMS LISTED.
  - REFER TO PIPING DIAGRAM, SHEETS AQ500, FOR PIPING ARRANGEMENT AND CONNECTIONS TO THE POOL EQUIPMENT. ACC IS TO ROUTE PIPING UNIFORMLY THROUGH THE ROOM AND COORDINATE AQUATIC PIPING WITH OTHER MECHANICAL AND ELECTRICAL SERVICES AS REQUIRED.
  - VERIFY ALL DIMENSIONS ASSOCIATED WITH SPECIFIED EQUIPMENT AND NOTIFY ARCHITECT / ENGINEER OF ANY DISCREPANCIES.
  - ALL AQUATIC EQUIPMENT COMPONENTS, DRAINS, FITTINGS, STRUCTURES AND FEATURES SHALL BE INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS AND SHALL BEAR ALL NECESSARY LABELS AS REQUIRED BY FEDERAL LAW AND INDIANA SWIMMING POOL CODE.
  - ALL AQUATIC EQUIPMENT COMPONENTS, DRAINS, FITTINGS, STRUCTURES AND FEATURES SHALL BE INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS AND SHALL BEAR ALL NECESSARY LABELS AS REQUIRED BY FEDERAL LAW AND INDIANA SWIMMING POOL CODE.
  - ACC IS RESPONSIBLE FOR ALL CONSTRUCTION, EQUIPMENT, PIPING AND CONTROL WIRING OF RELATED POOL EQUIPMENT AND WATER FEATURES UNLESS OTHERWISE NOTED.
  - ALL PIPING SHALL BE ROUTED AND INSTALLED SO IT CAN BE DRAINED.
  - REFER TO THE ARCHITECTURAL PLANS FOR THE DECK TILE PLACEMENT AND DETAILS. COORDINATE LOCATION AND PLACEMENT OF DECK TILE WITH THE TILE CONTRACTOR.
  - ENSURE THERE IS A THICKENED SLAB FOR THE NEW ANCHOR LOCATIONS AS REQUIRED BY THE ARD'S WORK.
  - COORDINATE ALL SEQUENCING WITH THE OWNER PRIOR TO STARTING THE PROJECT. ANY POOL SYSTEM SHUT-DOWNS OR OPERATIONAL SHUT-DOWNS ARE TO BE COORDINATED WITH AND APPROVED BY THE OWNER'S REPRESENTATIVE.
  - ACC IS RESPONSIBLE FOR ALL CONSTRUCTION, EQUIPMENT, PIPING AND THE SETTING OF WATER FEATURES.
  - THE WATER FEATURES ARE TO BE AS SHOWN ON THE DRAWINGS. ANY SUBSTITUTIONS OF EQUIPMENT OR PIPING MUST BE APPROVED BY THE OWNER/AQUATIC & RECREATION DESIGN.
  - ALL AQUATIC COMPONENTS, DRAINS, FITTINGS, STRUCTURES AND WATER PLAY FEATURES SHALL BE INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS AND SHALL BEAR ALL NECESSARY LABELS AS REQUIRED BY FEDERAL LAW AND INDIANA SWIMMING POOL CODE.



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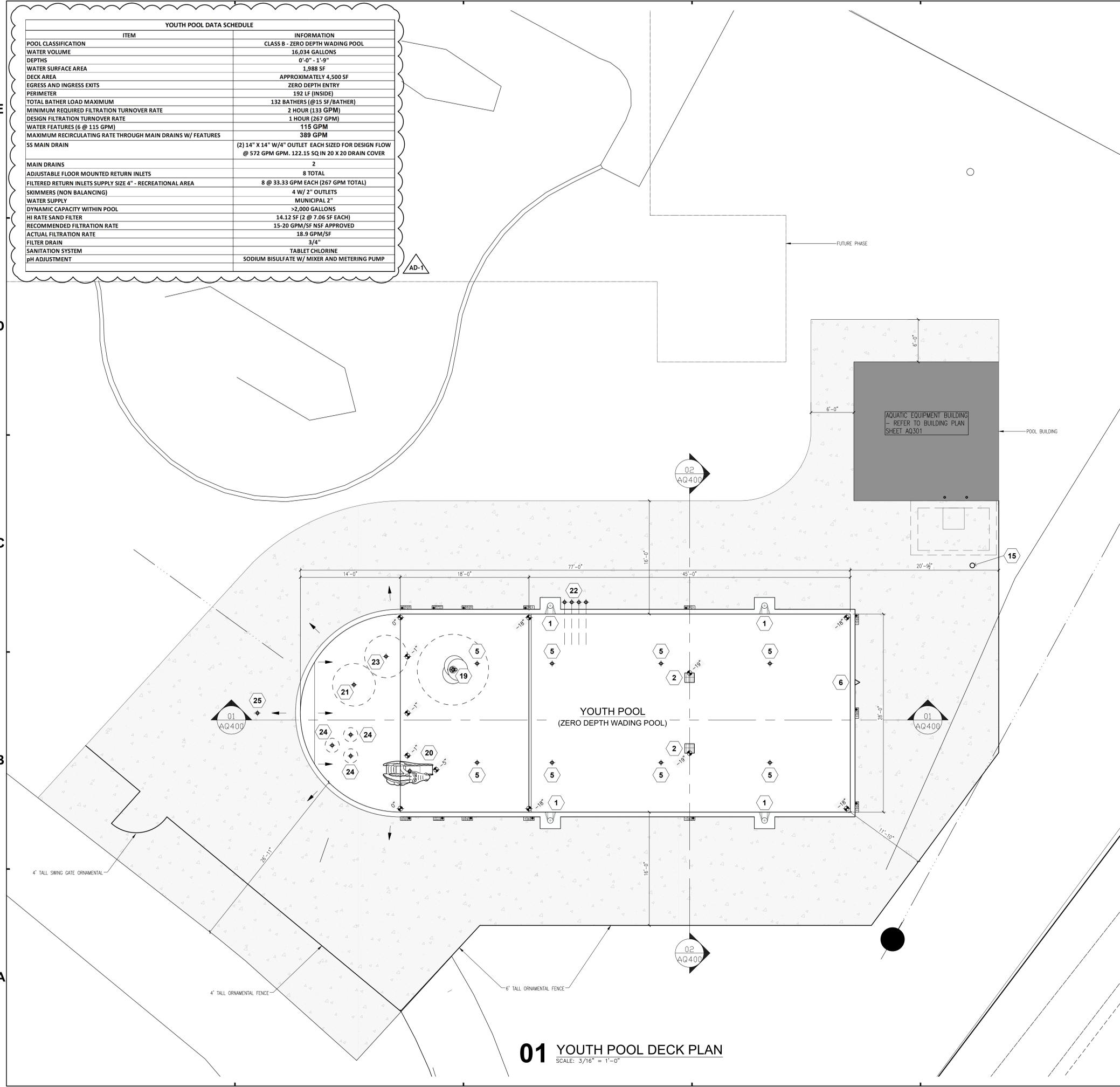
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#	Revision	Date
AD-1	ADDENDUM #1: REVISED POOL DATA SCHEDULE.	01/10/24

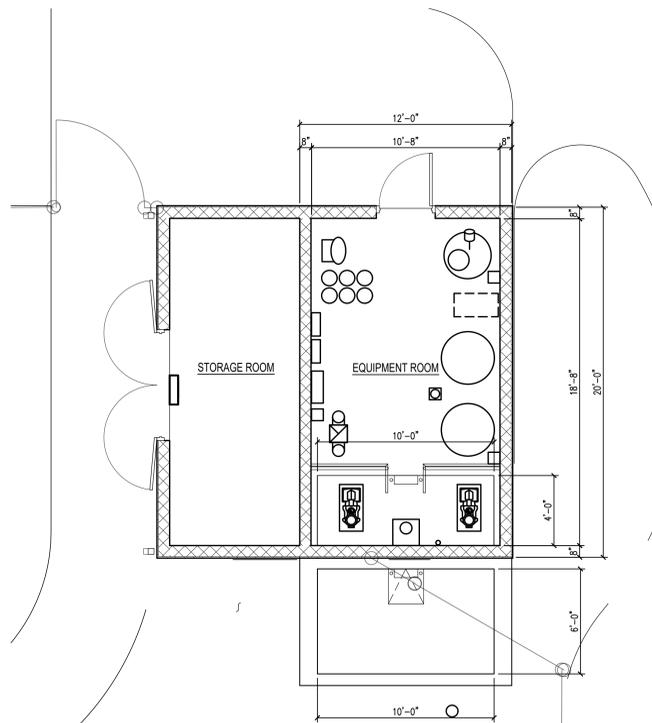


The Riviera Club  
 THE RIVIERA CLUB  
 EST. 1933  
  
 Youth Pool and Equipment Building

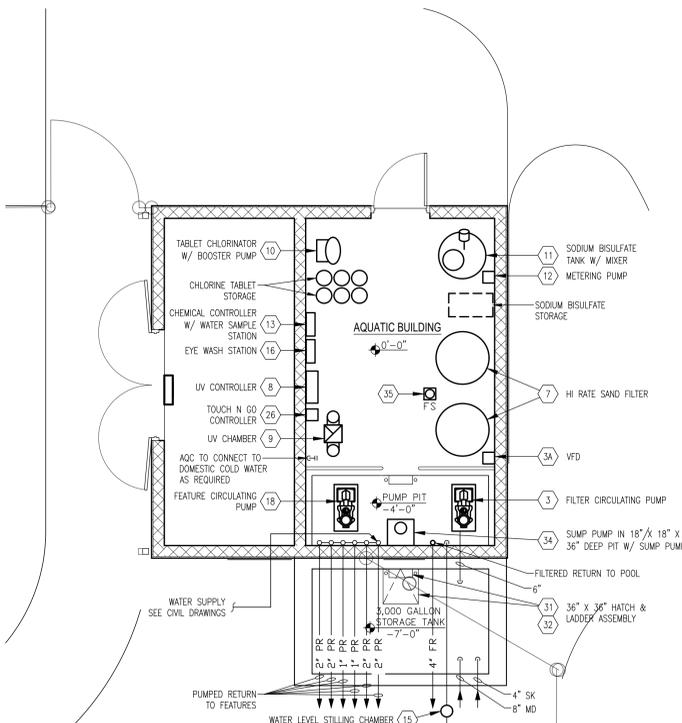
YOUTH POOL DECK PLAN  
 AQ200



**01** YOUTH POOL DECK PLAN  
 SCALE: 3/16" = 1'-0"



**02 AQUATIC BUILDING PLAN**  
SCALE: 1/4" = 1'-0"



**01 AQUATIC EQUIPMENT PLAN**  
SCALE: 1/4" = 1'-0"

- GENERAL NOTES:**
- ALL WORK SHOWN ON THESE DRAWINGS IS BY THE AQUATIC CONTRACTOR (AQC) UNLESS OTHERWISE NOTED.
  - ALL AQUATIC WORK SHALL CONFORM TO THE LATEST INDIANA SWIMMING POOL CODE, INDIANA STATE BOARD OF HEALTH RULES, MARION COUNTY HEALTH DEPARTMENT REQUIREMENTS, ADA ACCESSIBILITY GUIDELINES FOR SWIMMING POOLS, WADING POOLS AND SPAS, AND FINA RULES WHERE REQUIRED.
  - REFER TO THE SWIMMING POOL PLAN EQUIPMENT SCHEDULE, SHEET AQ300, FOR EQUIPMENT DESCRIPTION, MANUFACTURER MODEL NUMBERS, DETAIL REFERENCE SHEETS AND NOTES ASSOCIATED WITH THE EQUIPMENT ITEMS LISTED.
  - REFER TO PIPING DIAGRAM, SHEETS AQ500, FOR PIPING ARRANGEMENT AND CONNECTIONS TO THE POOL EQUIPMENT. AQC IS TO ROUTE PIPING UNIFORMLY THROUGH THE ROOM AND COORDINATE AQUATIC PIPING WITH OTHER MECHANICAL AND ELECTRICAL SERVICES AS REQUIRED.
  - VERIFY ALL DIMENSIONS ASSOCIATED WITH SPECIFIED EQUIPMENT AND NOTIFY ARCHITECT / ENGINEER OF ANY DISCREPANCIES.
  - ALL AQUATIC EQUIPMENT COMPONENTS, DRAINS, FITTINGS, STRUCTURES AND FEATURES SHALL BE INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS AND SHALL BEAR ALL NECESSARY LABELS AS REQUIRED BY FEDERAL LAW AND INDIANA SWIMMING POOL CODE.
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  - AQC IS RESPONSIBLE FOR ALL CONSTRUCTION, EQUIPMENT, PIPING AND CONTROL WIRING OF RELATED POOL EQUIPMENT AND WATER FEATURES UNLESS OTHERWISE NOTED.
  - ALL PIPING SHALL BE ROUTED AND INSTALLED SO IT CAN BE DRAINED.
  - REFER TO THE ARCHITECTURAL PLANS FOR THE DECK TILE PLACEMENT AND DETAILS. COORDINATE LOCATION AND PLACEMENT OF DECK TILE WITH THE TILE CONTRACTOR.
  - ENSURE THERE IS A THICKENED SLAB FOR THE NEW ANCHOR LOCATIONS AS REQUIRED BY THE ARD'S WORK.
  - COORDINATE ALL SEQUENCING WITH THE OWNER PRIOR TO STARTING THE PROJECT. ANY POOL SYSTEM SHUT-DOWNS OR OPERATIONAL SHUT-DOWNS ARE TO BE COORDINATED WITH AND APPROVED BY THE OWNER'S REPRESENTATIVE.
  - AQC IS RESPONSIBLE FOR ALL CONSTRUCTION, EQUIPMENT, PIPING AND THE SETTING OF WATER FEATURES.
  - THE WATER FEATURES ARE TO BE AS SHOWN ON THE DRAWINGS. ANY SUBSTITUTIONS OF EQUIPMENT OR PIPING MUST BE APPROVED BY THE OWNER/AQUATIC & RECREATION DESIGN.
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Project No. 2021-178.YPL  
Project Date 12.01.2023  
Produced

Sarah K. Hempstead

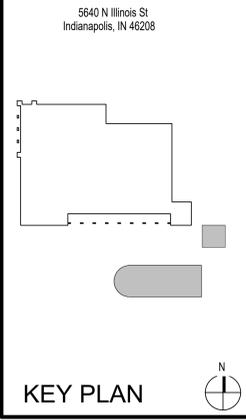
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#	Revision	Date
AD-1	ADDENDUM #1: ADDED ITEM 26 TO EQUIPMENT SCHEDULE.	01/10/24

ZERO DEPTH WADING POOL EQUIPMENT SCHEDULE						
ITEM	QUANTITY	EQUIPMENT DESCRIPTION	MANUFACTURER	MODEL	DETAIL REFERENCE AQ SHEETS	NOTES
<b>CIRCULATION AND DISTRIBUTION EQUIPMENT</b>						
1	4	SKIMMERS	PENAIR ADMIRAL S20	84420800	AQ400, AQ702	STANDARD MOUTH, 2" FPT - WHITE
2	2	SS MAIN DRAIN, VGA CERTIFIED FOR 1.5 FPS	PADDOCK	1818ESMD	AQAQ700	
3	1	FILTER CIRCULATING PUMP W/ STRAINER AND VFD	PENAIR	PENAIR 340031 EQ SERIES	AQ702	274 GPM 55 FT HEAD
3A	1	FILTER PUMP VARIABLE FREQUENCY DRIVE	PENAIR	AD050X-2303-N12	AQ300	PROVIDED SHIEDED CABLE
4	1	RETURN FLOW METER	GF SIGNET	2551	AQ700, AQ702	
5	6	SUPPLY INLET IN POOL BOTTOM	PENAIR	08417-0005	AQ702	WHITE
6	1	POOL WATER LEVEL FITTING	HAYWARD	SP1424	AQ500	WALL INLET FITTING - WHITE
<b>FILTRATION EQUIPMENT</b>						
7	2	HIGH RATE SAND FILTER	PENAIR	TR140C3	AQ701	MAXIMUM OPERATING PRESSURE 50 PSI
<b>WATER TREATMENT</b>						
8	1	UV CONTROLLER	ETS	ECF-210-4	AQ700	
9	1	UV LIGHT CHAMBER	ETS	ECF-210-4	AQ700	
10	1	TABLET CHLORINATOR WITH BOOSTER PUMP	PULSAR	PRECISION 30	AQ700	W/ BOOSTER PUMP
11	1	SODIUM BISULFATE STORAGE TANK WITH MIXER	GEMINI - DUAL CONTAINMENT	120 GALLON	AQ701	OUTER AND INNER TANK WITH FITTINGS
12	1	PH METERING PUMP	STENNER 85 SERIES	85M2	AQ	ADJUSTABLE HEAD
13	1	CHEMICAL CONTROLLER W/ WATER SAMPLE STATION	BECS	BECSys5-XS1GP10PBX	AQ	
14	1	WATER LEVEL CONTROLLER W/AUTO FILL	BECS	BECSysPLX-L1	AQ700	
15	1	WATER LEVEL STILLING CHAMBER W/ SENSING PROBE	BECS	BECSysPLX-L1	AQ500	MOUNT IN 6" SCHEDULE 80 PVC WITH THREADED CAP
<b>SAFETY EQUIPMENT NOT SHOWN</b>						
16	1	SELF CONTAINED EMERGENCY EYE WASH STATION	ULINE	PURE FLOW 1000	AQ300	MOUNT IN EQUIPMENT ROOM ON WALL
<b>DECK EQUIPMENT</b>						
17	WHERE SHOWN	DEPTH MARKER, FOR DECK INSTALLATION, 8" CERAMIC TILE NON-SLIP FINISH, BLACK COLOR W/ NO DIVING SYMBOL WHERE REQUIRED	INLAYS	AS DETAILED	AQ700	
<b>WATER FEATURE EQUIPMENT</b>						
18	1	FEATURE CIRCULATING PUMP W/ STRAINER AND VFD	PENAIR	INTELLIFLO 3 VSF	AQ702	115 GPM, 65 FT HEAD
19	1	ORBIT SPRAY	WATER ODYSSEY	C003	AQ703	2" SUPPLY, 15 GPM
20	1	GILBERT GATOR SLIDE	WATER ODYSSEY	F1007	AQ703	1" SUPPLY, 2 GPM
21	1	MUSHROOM MAZE	WATER ODYSSEY	W010	AQ703	2" SUPPLY, 35 GPM
22	1	OVER N UNDER	WATER ODYSSEY	W0974	AQ703	2" SUPPLY, 28 GPM
23	1	DANDELION DOME	WATER ODYSSEY	W043	AQ703	1" SUPPLY, 5 GPM
24	3	WATER FLOWER	WATER ODYSSEY	W071	AQ703	1" SUPPLY, (3) @10 GPM EA
25	1	TOUCH N GO	WATER ODYSSEY	W009	AQ703	
26	1	TOUCH N GO CONTROLLER	WATER ODYSSEY	W009	AQ300	115 VOLT SUPPLY TO CONTROLLER15
<b>MISCELLANEOUS EQUIPMENT</b>						
27	1	PRESSURE RELIEF VALVE	HAYWARD	PVC FNPT 3/4"	AQ500	ADJUSTABLE 5-75 PSI
30	1	SHOCK ARRESTOR	PPP	CPVC 1"	AQ500	INSTALL ON DISCHARGE SIDE OF SOLENOID VALVE AT FEATURE PUMP PIPE HEADER
31	1	SURGE TANK ALUMINUM HATCH	US FABRICATION	36"X36" TPS	AQ702	SS SLAM LOCK, PEDESTRIAN LOADING
32	1	SURGE TANK LADDER	LANE INTERNATIONAL CORP.		AQ702	POLYPROPYLENE LADDER
33	2	STAINLESS STEEL- PVC FOOT VALVE W/SUCTION SCREEN	MUNRO	4"- FV400S & 6" - FV600S	AQ500	PROVIDE ONE FOR EACH CIRCULATING PUMP
34	1	STORAGE TANK SUMP PUMP	BY OTHERS	1-1/2" DISCHARGE	AQ500	BY OTHERS
35	1	FLOOR SINK FOR FILTER DRAIN	BY OTHERS			BY OTHERS
36	1	REDUCED PRESSURE BACKFLOW PREVENTER	BY OTHERS			BY OTHERS
37	1	DECK HYDRANT (100' COVERAGE HOSE BIBB)	BY OTHERS			BY OTHERS
38	1	HOSE BIBB - POOL MECHANICAL EQUIPMENT ROOM	BY OTHERS			BY OTHERS
39	1	SUMP PUMP PIT GRATING	CUSTOM	18"X18"		HIGH DENSITY SLOTTED GRATING
<b>TYPICAL SPECIALITIES</b>						
AS NEEDED		VALVE TAGS	SETON	PVC BY AQC		REFER TO SPECIFICATIONS FOR LOCATIONS
AS NEEDED		PIPE ID W/ ARROWS	SETON	#98408		REFER TO SPECIFICATIONS FOR LOCATIONS
AS NEEDED		BALL VALVES	PEX	VEE SERIES - SIZE AS REQUIRED		REFER TO PLANS AND DIAGRAMS
AS NEEDED		BUTTERFLY VALVES - OPERATOR AS REQUIRED	ASAHI/AMERICA, HAYWARD	POOL-PRO		REFER TO PLANS AND DIAGRAMS
AS NEEDED		CHECK VALVES	METRAFLEX	SIZE AS NEEDED		REFER TO PLANS AND DIAGRAMS
WHERE SHOWN		PRESSURE GAUGE - 2.5" DIAL	AMERICAN GRANBY	1LPG6025-4LNL		REFER TO PLANS AND DIAGRAMS
WHERE SHOWN		VACUUM GAUGE - 2.5" DIAL	AMERICAN GRANBY	1LVG3025-4LNL		REFER TO PLANS AND DIAGRAMS
WHERE SHOWN		PRESSURE GAUGE - 2.5" DIAL	AMERICAN GRANBY	1LPG6025-4LNL		REFER TO PLANS AND DIAGRAMS
WHERE SHOWN		THERMOMETER	WIERS	DV1055		REFER TO PLANS AND DIAGRAMS
WHERE SHOWN		COMPOUND GAUGE	AMERICAN GRANBY	1LVG3025-4LNL		REFER TO PLANS AND DIAGRAMS
WHERE NEEDED		AIR RELIEF VALVES WHERE REQUIRED	DEZURK - APCO	#200A		LOCATE WHERE REQUIRED
AS NEEDED		PIPE AND FITTINGS	PER SPECIFICATIONS	SCHEDULE 80 PVC		REFER TO SPECIFICATIONS

ZERO DEPTH WADING POOL ELECTRICAL SCHEDULE												
ITEM	QUANTITY	EQUIPMENT DESCRIPTION	MANUFACTURER	MODEL NUMBER	GPM	HEAD	HP	RPM	VOLTAGE	PHASE	NOTES	
3	1	FILTER CIRCULATING PUMP W/STRAINER & VFD	PENAIR	PENAIR 340031 EQ SERIES	274	55	5.00	3450	208	3	13 AMPS	
3A	1	VARIABLE FREQUENCY DRIVE	PENAIR	AD050X-2303-N12					208	3		
18	1	FEATURE CIRCULATING PUMP W/STRAINER W/ VFD	PENAIR	INTELLIFLO 3 VSF	115	65	3.00	3450	208	1	12.4 AMPS	
26	1	WATER ODYSSEY	WATER ODYSSEY		115							
<b>WATER TREATMENT</b>												
8	1	UV CONTROLLER	ETS	ECF-210-4	172				208	3	2 KW	
10	1	TABLET CHLORINATOR W/ BOOSTER PUMP	PULSAR	PRECISION 30					115	1	NOTE 1	
11	1	SODIUM BISULFATE TANK MIXER	WINGERT	F-M-TE-PPRWRD-EK-36			0.25		115	1		
12	1	PH METERING PUMP	STENNER 85 SERIES	85M2			0.03		115	1		
14	1	CHEMICAL CONTROLLER W/ WATER SAMPLE STATION	BECSys5	XS1GP1XOLLIN-7C					115	1	12.25 AMPS	

NOTE 1 LOW VOLTAGE CONTROL FOR SOLENOID VALVE IN CHLORINATOR, 115 VOLTS FOR BOOSTER PUMP WITH INTERLOCK TO SHUT DOWN PUMP DURING BACKWASH.



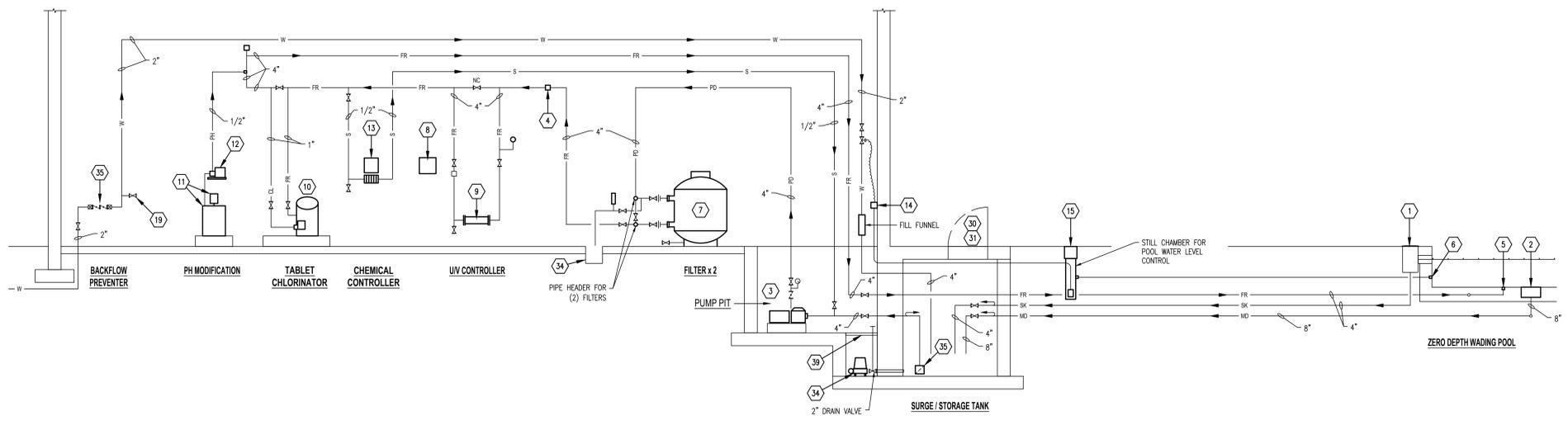
The Riviera Club

**THE RIVIERA CLUB**  
EST. 1933

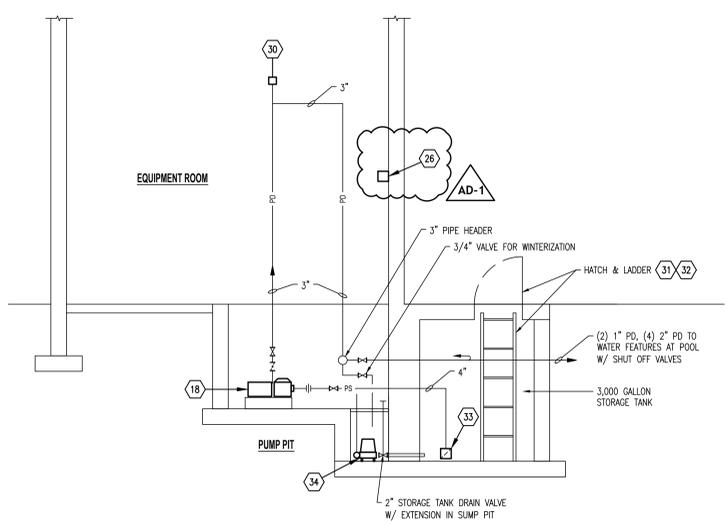
Youth Pool and Equipment Building

POOL EQUIPMENT PLAN

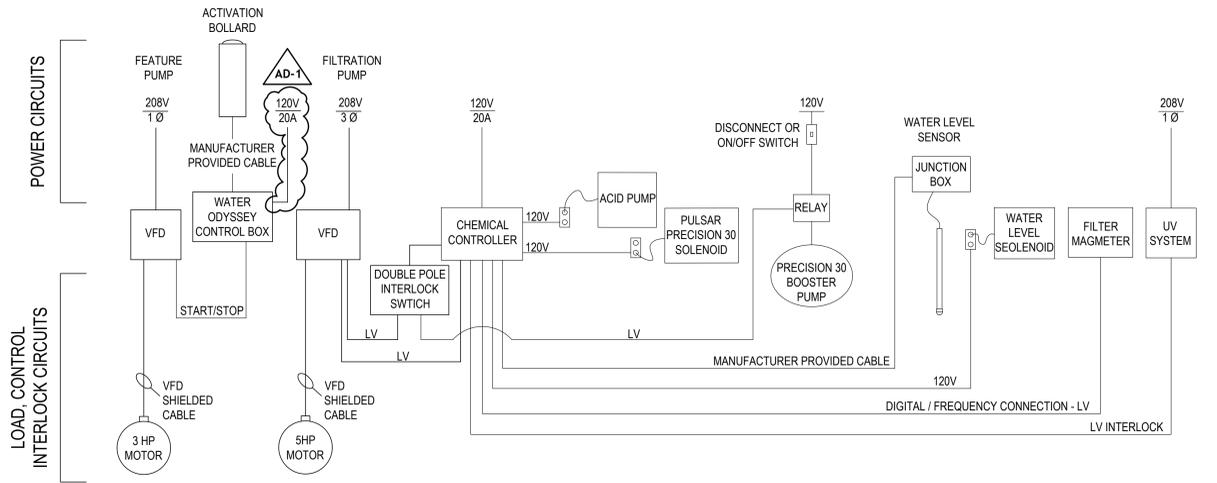
**AQ300**



**01 YOUTH POOL PIPING DIAGRAM**  
SCALE: NONE

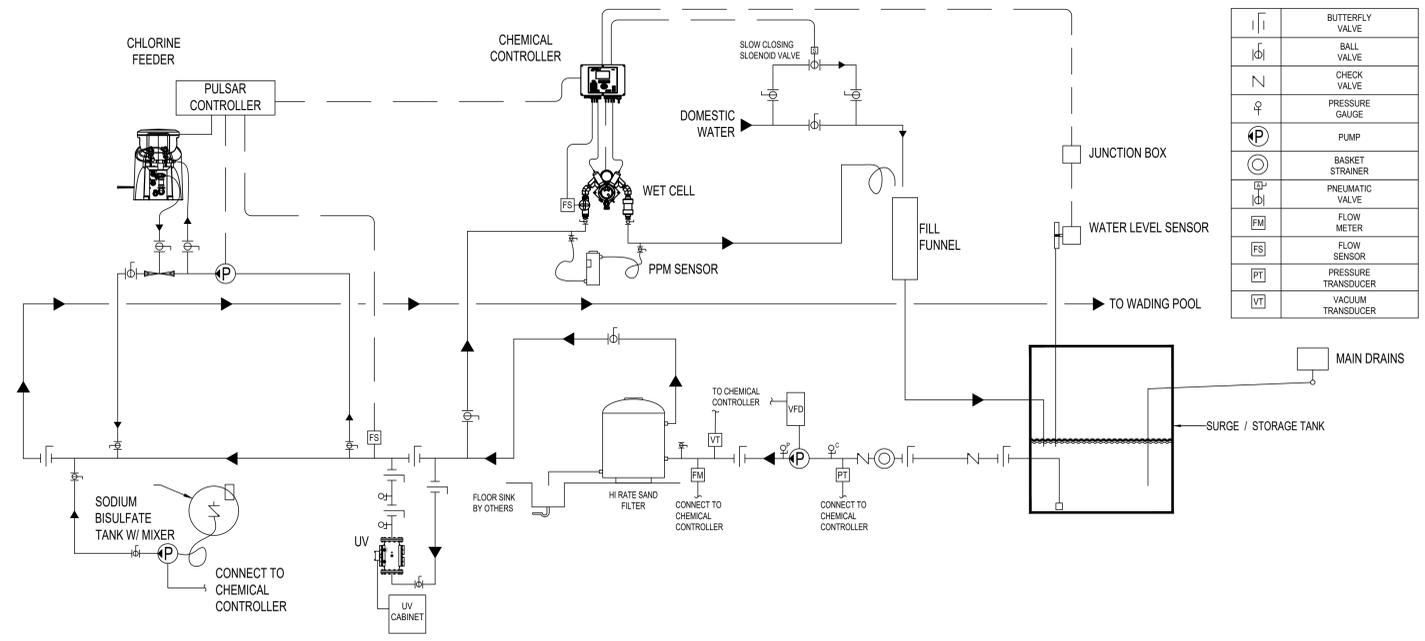


**02 WATER FEATURE PIPING DIAGRAM**  
SCALE: NONE



**03 YOUTH POOL WIRING SCHEMATIC**  
SCALE: NONE

- ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL CONDUIT REQUIRED PER STATE AND LOCAL CODES
- ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL WIRING FOR 120V AND HIGHER PER STATE AND LOCAL CODES
- ELECTRICAL CONTRACTOR TO RUN AND LABEL LOW VOLTAGE WIRING. POOL CONTRACTOR RESPONSIBLE FOR LANDING LOW VOLTAGE WIRING.
- ELECTRICAL CONTRACTOR RESPONSIBLE FOR THE BONDING AND GROUNDING OF POOL EQUIPMENT.
- ALL LOW VOLTAGE WIRING TO BE 18-3 SHIELDED CABLE UNLESS OTHERWISE REQUIRED.
- LV - 18-3 SHIELDED
- IC - PAIR OF #12



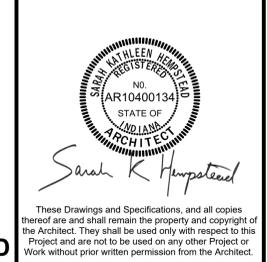
**04 YOUTH POOL CHEMICAL TREATMENT DIAGRAM**  
SCALE: NONE

	BUTTERFLY VALVE
	BALL VALVE
	CHECK VALVE
	PRESSURE GAUGE
	PUMP
	BASKET STRAINER
	PNEUMATIC VALVE
	FLOW METER
	FLOW SENSOR
	PRESSURE TRANSDUCER
	VACUUM TRANSDUCER

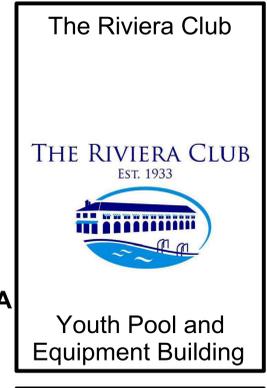
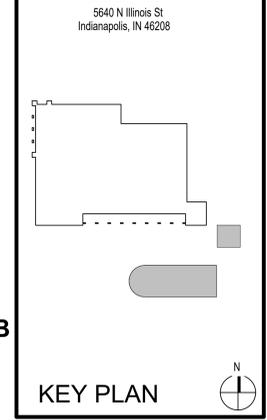
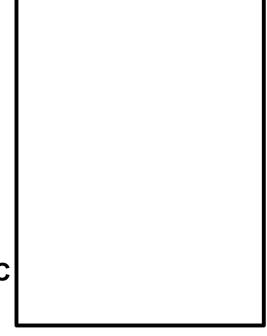
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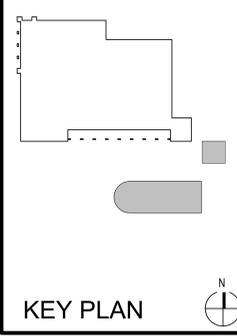
#	Revision	Date
AD-1	ADDENDUM #1: ADDED LOCATION OF ITEM 26 ON DETAIL 02. ADDED CONTROLLER VOLTAGE ON DETAIL 03.	01/10/24



YOUTH POOL PIPING DIAGRAM  
AQ500

#	Revision	Date
AD-1	ADDENDUM #1: ADDED DETAIL 8, "TOUCH N GO" CONTROLLER DETAIL	01/10/24

5640 N Illinois St  
Indianapolis, IN 46208



The Riviera Club



Youth Pool and Equipment Building

WATER FEATURE DETAILS

AQ703

### Specifications

Model Number: W010  
Interactive Water Effect: Shall be a clear domed sheet of water.  
Shaft: Straight 4" type 304 stainless steel pipe with machined type 304 base plate.  
Anchor Base: Type 304 stainless steel machined to mate with shaft base plate with grounding connection and 2" FPT inlet. Supplied with 4, 1/2" x 2" anchor bolts with two leveling nuts and washers per bolt and wood pour template.  
Gaskets: 70 durometer EPDM o-ring.  
Fasteners: Tamper-resistant 18/8 stainless steel.  
Finish: Textured elastomeric urethane with a UV and chlorine resistant sealer coat.  
Nozzle: Stainless steel deflector type.

### Anchor Base

Note: Anchor base must be completely encapsulated in concrete (min. 3000 psi).

### Hydraulic Requirements

Height	Spread	GPM	psi
4"	30"	2	2
6"	35"	3	3
8"	40"	3	3

W010

## 03 WATER FEATURE DETAIL

SCALE: NONE

### Specifications

Model Number: F1007  
Age Group: 2-5 years.  
Small Slide: 14 inches wide with climbing tread.  
Construction: Hard foam core with Aqua Armor® (structural elastomeric polymer outer shell).  
Anchors: Epoxy Anchors, 1/2"-13, 3/16 SS. (Supplied).  
Fasteners: 1/2"-13 Tamper-resistant 18/8 stainless steel. (Supplied).  
Space Washers: As required; must be non-ferrous. (By Installer).  
Supply Line: 1" with Sch 80 PVC or Brass coupling connection. (By Installer).  
Hydraulic Requirements: 8 GPM (30 LPM) at 3 psi (.21 bar).

### Optional Additional Effects Water

□ F1007-E Slide with Additional Effects Water  
2 GPM (8 LPM) at 15 psi (1.03 bar).  
Add 1.5" Effects Supply Pipe.

Note: Refer to "Installation Detail" for additional installation procedure.

F1007

## 02 WATER FEATURE DETAIL

SCALE: NONE

### Specifications

Model Number: C003  
Shaft: 4" type 304 stainless steel pipe with a machined type 304 base plate.  
Anchor Base: Type 304 stainless steel machined to mate with shaft base plate with grounding connection and 2" FPT inlet. Supplied with 4, 1/2" x 2" anchor bolts with two leveling nuts and washers per bolt and wood pour template.  
Gaskets: 70 durometer EPDM o-ring.  
Fasteners: Tamper-resistant 18/8 stainless steel.  
Finish: Textured elastomeric urethane with a UV and chlorine resistant sealer coat.  
Nozzles: 10 machined stainless steel jet stream.  
Color Cast: A rigid urethane polymer intended for translucent color accents with resistance to chlorine and UV.

### Anchor Base

Note: Anchor base must be completely encapsulated in concrete (min. 3000 psi).

### Hydraulic Requirements

Height	Throw	GPM	psi
4"	8"	2	2
6"	12"	3	3
8"	20"	4	4
8"	28"	5	5

□ C003

W097-4

## 01 WATER FEATURE DETAIL

SCALE: NONE

### Specifications

Model Number: W071  
Interactive Water Effect: Shall be a sheet effect in the shape of a morning glory.  
Housing: 20 gauge deep-drawn type 304 stainless steel with grounding connection and 1" FPT inlet. Supplied with 4, 3/8" x 1/2" x 2" anchor bolts with two leveling nuts and washers per bolt and wood pour template.  
Gaskets: 70 durometer EPDM o-ring.  
Construction Cover: Reusable 7" diameter HDPE (high density polyethylene).  
Top Plate: 7" diameter slightly domed cast bronze with interchangeable nozzle assembly and UV stabilized, textured elastomeric urethane coating with a UV and chlorine resistant sealer coat.  
Top Plate Anchors: Three 1/2" x 5" machined brass with 30' hook bend.  
Fasteners: Tamper-resistant 18/8 stainless steel.  
Nozzle: Precision machined brass.

### Hydraulic Requirements

Height	Spread	GPM	psi
Y	Z	10	1

W071

## 06 WATER FEATURE DETAIL

SCALE: NONE

### Specifications

Model Number: W043  
Interactive Water Effect: Shall create a hemisphere of fine mist.  
Housing: 20 gauge deep-drawn type 304 stainless steel with grounding connection and 1" FPT inlet. Supplied with 4, 3/8" x 1/2" x 2" anchor bolts with two leveling nuts and washers per bolt and wood pour template.  
Gaskets: 70 durometer EPDM o-ring.  
Construction Cover: Reusable 7" diameter HDPE (high density polyethylene).  
Top Plate: 7" diameter slightly domed cast bronze with interchangeable nozzle assembly and UV stabilized, textured elastomeric urethane coating with a UV and chlorine resistant sealer coat.  
Top Plate Anchors: Three 1/2" x 5" machined brass with 30' hook bend.  
Fasteners: Tamper-resistant 18/8 stainless steel.  
Nozzle: Precision machined brass.

### Hydraulic Requirements

Height	Spread	GPM	psi
Z	6"	5	3

W043

## 05 WATER FEATURE DETAIL

SCALE: NONE

### Specifications

Model Number: W097-4  
Interactive Water Effect: Shall be a row of four streams of water adjustable from vertical to 60 degrees.  
Housing: Schedule 40 red brass pipe with grounding connection and one 1/2" FPT inlet. Supplied with 4, 3/8" x 1/2" x 2" anchor bolts with two leveling nuts and washers per bolt.  
Construction Covers: 2 1/4" diameter HDPE (high density polyethylene).  
Fasteners: Tamper-resistant 18/8 stainless steel.  
Nozzles: Four adjustable precision machined brass.

### Hydraulic Requirements

Height	Throw	GPM	psi
Z	Z	8	2
4"	4"	12	3
6"	6"	20	4
8"	8"	28	5

□ W097-4

□ W097C-4 - Water Conserving Version

Height	Throw	GPM	psi
Z	Z	4	2
4"	4"	8	3
6"	6"	12	4
8"	8"	16	5

W097-4

## 04 WATER FEATURE DETAIL

SCALE: NONE

### Specifications

Model No: DSC-x-x (See Chart).  
Housing: NEMA 4X with lockable hasp.  
Input Voltage: 120VAC/60 Hertz, 20 Amps.  
Wired Inputs: See Chart.  
Wired Activator Input: 12VDC.  
Output Voltage: 24VAC/60 Hertz, .75 Amps continuous per output.  
Outputs: See Chart.  
Power Cord: 6 foot, 16-3 type SJT with grounded plug.  
Cord Seal: PVC compression seal fittings with neoprene gland for 16-2 solenoid valve cables.  
Time Clock: Integral, electronic, 7 day, 24 hour.  
Interface: Keypad with 20 keys and a 4 x 20 backlit LCD display.  
Programmable Events: Timed duration, cycled, defined, random, and cued sequencing, field adjustable.  
Programming: Through keyboard; set at factory and field adjustable.  
Safety: ETL and Underwriters' Laboratories Listed.

Model Number	Wired Inputs (Max)	Outputs (Max)
DSC-8-8	8	8
DSC-8-16	8	16
DSC-8-24	8	24
DSC-16-16	16	16
DSC-16-24	16	24

Note: Conduit and wire by installer.

1. Conduit and wire by installer.  
2. Adding suffix. A to any of the units above will designate it as factory mounted and pre-wired on manifold assembly.  
3. Symbol indicates larger enclosure req'd. See dimensions.  
4. All field wiring to be compliant with NEC and local codes.  
Field output wire to be stranded copper, minimum rated 60° C.

AD-1

WATER ODYSSEY BY FOUNTAIN PEOPLE

### Dynamic Sequencing Controller For Wired Activators

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03-14-18

## 08 WATER FEATURE DETAIL

SCALE: NONE

### Specifications

Model Number: W009  
Shaft: 4" type 304 stainless steel pipe.  
Base Plate: Type 304 stainless steel.  
Anchors: (4) stainless steel concrete anchors, supplied.  
Finish: Textured elastomeric urethane with a UV and chlorine resistant sealer coat.  
Fasteners: Tamper-resistant type 18/8 stainless steel.  
Activator Housing: Machined from solid PVC stock.  
Activator Cord: 150' of 18/3 type SJT/UV submersible cable pre-wired to activator button, supplied.  
Hand Print Decal:

### Anchor Base

### Hydraulic Requirements

Height	Spread	GPM	psi
4"	11"	6	6

W009

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08-10-18

## 07 WATER FEATURE DETAIL

SCALE: NONE

