



Proposal for:
Gautier City Park
SPLASH PAD

Presented by:
Amy Altman
Aquatic Recreation Co.
952.345.6440
aaltman@arc4waterplay.com

Proposal #15164
April, 2015

Option One



The fun is in the water

952.445.5135 | 877.632.0503 | www.arc4waterplay.com



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Thank you for the opportunity

Thank you for this opportunity to submit our response to the referenced request for proposal. Enclosed you'll find detailed descriptions of the extensive level of services by Aquatic Recreation Company (ARC).

In addition, we are providing a conceptual 3d design with supporting product information and a products and services proposal.

Understanding that you may be in the very initial design concept stages and that the project may evolve, please note the following qualifications of ARC's proposal:

- The enclosed design is an initial concept and has been designed in order to fit the space and types of features indicated in the request for proposal.
- ARC's project design is to be a single pass city water system.
- ARC's mechanical components to be housed above ground in a housing or equipment room provided by others.

Please let me know if I may assist you further as I look forward to hearing from you!

Sincerely,
Amy Altman
Sales Manager
Direct: 952-345-6440
Email: aaltman@arc4waterplay.com



The fun is in the water

And we *make water fun*. From large-volume water features to ARC-tistic structures, we do more with your water and always keep fun at a premium.

Big fun, big value

Our splash pad structures and ground sprays are designed are for kids young and old. We understand that play value for little kids is just as important as durable structures, flexible product options and dollar-for-dollar value are to "big" kids.

Waterplay ARCHitects

Like any good architect, we aim for long-lasting value. That's why we engineer our splash pads with prefabricated, top-of-the-line mechanical systems that offer years of reliable, easy-to-use operation.

Passion, experience and dedication

With over 25 years in the water entertainment business, you might say that we live and breath water (but without gills). We enjoy sharing our passion with our customers—it's what drives us to provide hands-on service and go the extra mile with our concept and construction design services.



www.arc4waterplay.com

Front view for: **Gautier** SPLASH PAD



Overhead view for: **Gautier** SPLASH PAD



Overall pad equipment:

- A** Custom Log Barn w/Dumping Troughs @50 gpm
- B** Sand Hill Crane @ 5 gpm
- C** (4) Cat Tail Spray @ 10 gpm
- D** Missing Palm @ 10 gpm
- E** Water Bug Fan Spray @ 10 gpm
- F** Tot Flower Spout @ 3 gpm
- G** Mini Upward Spray Ring @ 12 gpm
- H** (2) Junior Geyser @ 10 gpm
- I** (5) Arch Jet @ 1 gpm
- J** (7) Stream Jet @ 1 gpm
- K** Activation Bollard

Total system Flow Rate: 162 GPM

Additional view for: **Gautier** SPLASH PAD



Additional view for: **Gautier** SPLASH PAD



Additional view for: **Gautier** SPLASH PAD





Custom Themed Sand Hill Crane Butterfly Spout

The **Custom Themed Sand Hill Crane** is a themed product that emits an angular fan nozzle effect from a bent pipe with Sand Hill Crane themed wing attachments onto users below.



Flow Range	5 to 10 GPM 18.93 to 37.85 LPM
Size	12' 0" x 5' 5" 3.65 x 1.67 m
Splash zone	10' 0" x 8' 0" 3.05 x 2.43 m



Misting Palm

The **Misting Palm** is a themed product that emits multiple misting sprays from an overhead arch with palmed theme attachment onto users below.



Flow Range	10 GPM 37.85 LPM
Size	9' 6" x 5' 5" 2.93 x 1.67 m
Splash zone	10' 0" x 8' 0" 3.05 x 2.44 m



Cat Tail Spray

The **Cat Tail Spray** is a themed product that emits water from the top of a tall, slender, slightly flexible stainless steel tube with cat tail themed attachment. The user can wiggle the feature to project water in any direction.



Flow Range	10 to 20 GPM 37.85 to 75.71 LPM
Size	10' 0" x 0' 2" 3.05 x .05 m
Splash zone	10' 0" Diameter 3.05 m Diameter

Custom Themed Log Barn with 4 Dumping Troughs



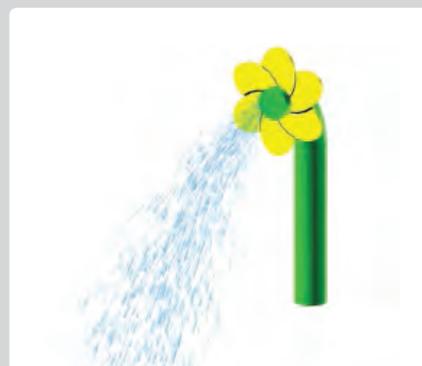
The **Custom Themed Log Barn with 4 Dumping Troughs** is a wood faux painted structure that emits multiple misting sprays from corner crossbars onto users and has four dumping troughs. The wooden faux painting gives this product the realistic, wood grain theme.

Standard flow	50 289.27 LPM
Size	19' 0" x 21' 0" 5.79 x 6.40 m
Splash zone	25' 0" x 25' 0" 7.62 x 7.62 m



Tot Flower Spout

The **Tot Flower Spout** is a themed product that emits a multiple stream effect from a bent pipe with sun flower themed attachment onto users below. This small scale structure is a great activity for early age children.



Flow Range	3 to 5 GPM 11.35 to 18.93 LPM
Size	2' 6" x 0' 3" .79 x .09 m
Splash zone	6' 0" x 4' 0" 1.83 x 1.22 m



Water Bug Fan Spray

The **Water Bug Fan Spray** is a structure that emits two sheeting fan water effect from a 12" diameter cap.



Flow Range	10 to 20 GPM 37.85 to 75.71 LPM
Size	0' 12" Diameter .30 m Diameter
Splash zone	10' 0" x 6' 0" 3.05 x 1.83 m



Stream Jet

The **Stream Jet** is a ground spray element that emits a single stream of water upward. The feature flow rates can be adjusted to increase or decrease the spray height. The Stream Jet is designed for wet deck applications with no standing water.



Maximum flow	10 GPM 37.85 LPM
Standard flow	5 GPM 18.93 LPM
Minimum flow	1 GPM 3.78 LPM
Size	5' 0" x 0" 3 1/2" 1.52 x .106 m
Splash zone	8' 0" Diameter 2.44 m Diameter



Arch Jet

The **Arch Jet** is a ground spray element that emits a single stream of water arching outward. The feature flow rates can be adjusted to increase or decrease the spray height and projection. The Arch jet is designed for wet deck applications with no standing water.

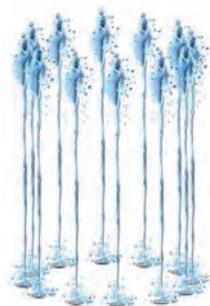


Maximum flow	10 GPM 37.85 LPM
Standard flow	5 GPM 18.93 LPM
Minimum flow	1 GPM 3.78 LPM
Size	5' 0" x 3' 6" 1.52 x 1.1 m
Splash zone	8' 0" x 5' 0" 2.44 x 1.52 m



Mini Upward Spray Ring

The **Mini Upward Spray Ring** is a ground spray element that emits twelve (12) vertical streams of water from a 3ft diameter ring. The feature flow rates can be adjusted to increase or decrease the spray height of the streams. The Upward Spray Ring is designed for wet deck applications with no standing water.



Maximum flow	120 GPM 454.25 LPM
Standard flow	60 GPM 227.12 LPM
Minimum flow	12 GPM 45.42 LPM
Size	5' 0" x 3' 0" 1.52 x .914 m
Splash zone	15' 0" Diameter 4.57 m Diameter



Junior Geyser

The **Junior Geyser** is a ground spray element that emits a medium bodied, aerated mound of water. The feature flow rates can be adjusted to increase or decrease geyser height and volume. The Junior Geyser is designed for wet deck applications with no standing water.



Flow Range	10 to 15 GPM 37.85 to 56.78 LPM
Size	3' 0" x 0' 9 1/4" .914 x .28 m
Splash zone	6' 0" Diameter 1.83 m Diameter

Mechanical overview for: **Gautier** SPLASH PAD

System type:

City Water System

ARC City Water System Overview

ARC's city water systems are an alternative to recirculation systems when splash pads are in a controlled environment with limited usage times or when systems and selected water play elements are designed for minimum water consumption. City water systems are a cost effective approach for a splash pad project when water consumption issues are not a concern. Water reclamation may be routed to a retention pond & used as means of irrigation.

1 Activation Bollard

Touch post activator

2 Ground Spray

Flush spray feature with various nozzle effects

3 Embed Pod Drain

Drain to waste to eliminate standing water in ground spray pod

4 Drain to Waste Outlet

Main drain to collect all splash pad water to waste

5 Water Play Structures

Above grade spray feature with various water activities

6 Drain Line to Waste

Take waste water to storm sewer system or retention pond

7 Distribution Manifold

Pre-plumbed, pre-fabricated with winterization blow-out-port

8 Solenoid Valves

Optional on each feature line for sequencing of events

9 Manual Valves

Manually control each spray feature's spray height & distance

10 Main Solenoid Valve

On/Off control for splash pad main water supply

11 System Control Panel

Controls operational hours, duration of time, sequencing of events, & on/off controls.

12 Main Power Supply

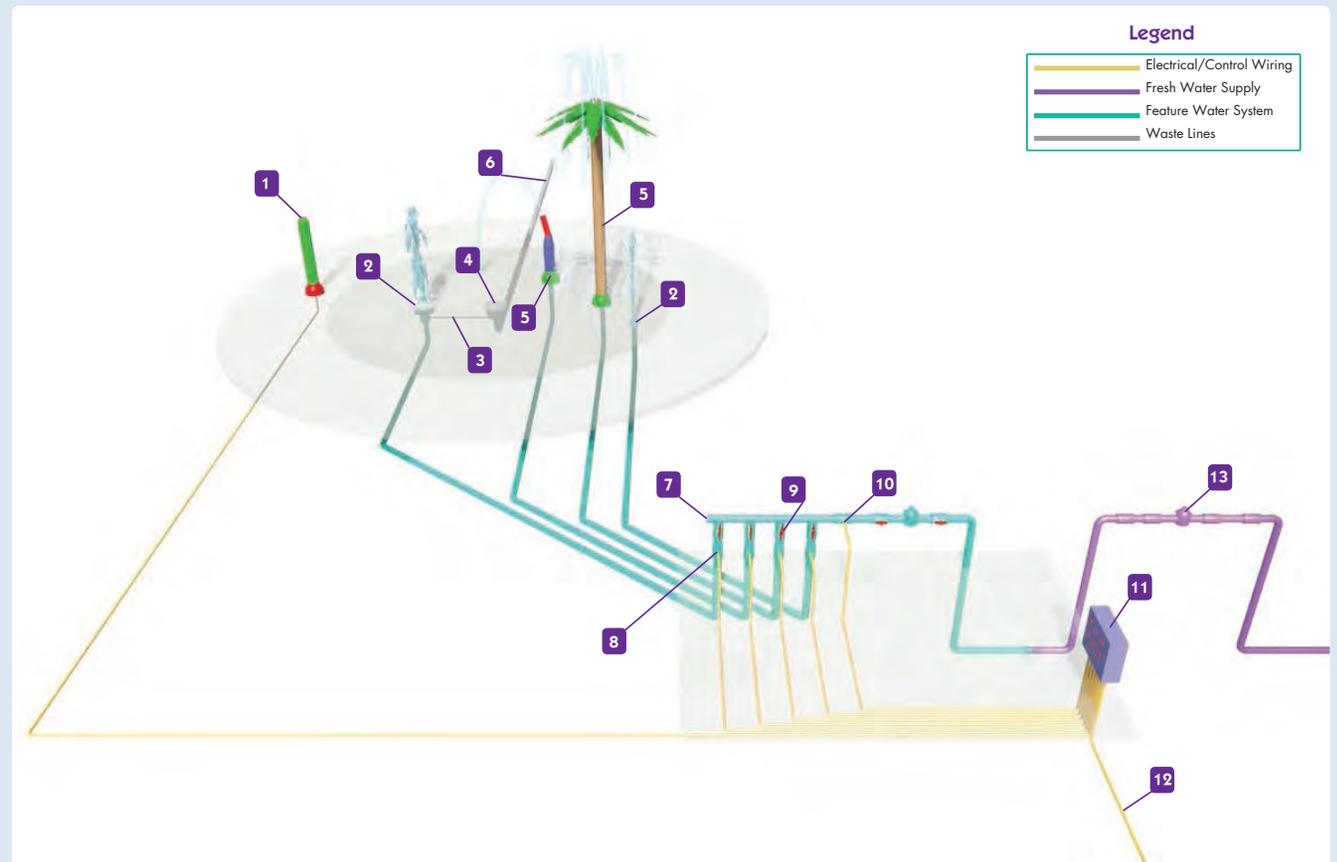
Typically 120V, Single Phase, 60 Hz power feed

13 Main Water Supply

Municipal water supply with pressure regulator (20 to 30 PSI) & back-flow preventer

* Optional Equipment

Above or below grade equipment enclosures & water re-purpose reservoir



The fun is in the water

Quote for: **Gautier**

<u>Water Play Features</u>		<u>Unit Sale Price</u>	<u>Final Sale Price</u>	<u>Water Play Features Total</u>
1	Misting Palm	\$7,200.00	\$7,200.00	\$106,734.00
4	Cat Tail Spray	\$5,400.00	\$21,600.00	
1	Custom Themed Log Barn w/ 4 Dumping Troughs	\$60,204.00	\$60,204.00	
1	Sand Hill Crane Spout – SS	\$7,850.00	\$7,850.00	
1	Water Bug Fan Spray	\$890.00	\$890.00	
1	Tot Flower Spout – SS	\$2,100.00	\$2,100.00	
7	Stream Jet	\$195.00	\$1,365.00	
5	Arch Jet	\$195.00	\$975.00	
2	Junior Geyser	\$1,300.00	\$2,600.00	
1	Mini Upward Spray Ring	\$1,950.00	\$1,950.00	

Water play feature design notes:

- All above water play features are to be the standard product of Aquatic Recreation Company (ARC).
- All above ground structures are flange mounted to concrete pad.
- All above ground features are offered in the following colors: Red, Orange, Yellow, Green, Blue, Purple, Brown, & White.
- All ground spray features are imbed and installed prior to concrete being poured."



Quote for: **Gautier**

Mechanical System

Domestic Water System:

Mechanical System Total
\$26,957

1 Activation Bollard

To consist of a stainless steel activation bollard with touch sensor that will signal control panel to activate feature supply system for set duration of time. ARC Model ACT-BP

1 Control Panel - Sequencing

To be a UL listed control panel consisting of a programmable control system that will set hours of operation, sequencing of water play elements and activate water flow through a touch censored Activation Bollard.

2 Drainage Box

To consist of a fiberglass drainage box with grate top.

1 Distribution Manifold - 27 Valves Sequencing

To consist of a stainless steel pre-plumbed distribution manifold with electric solenoid valves for sequencing of water play elements and manual valves for on/off of water supply and for adjusting and distributing water flows to water play elements.

1 Aboveground Mechanical Enclosure

To consist of a fiberglass reinforced plastic or metal structure with hinged access panels mounted on a concrete pad. Above ground equipment enclosures can house the control panel and water distribution manifold. Enclosure is vented to allow for air movement and lower screened drainage openings allow for water drainage.



Quote for: **Gautier**

Design Services

Design Services Total

Design & Construction drawings:

\$3,652

Including: All design and construction drawings for splash pad project construction to consist of construction of concrete pad, mechanical system, electrical and control systems, inbed spray fixtures / collector box installation details, water plays structure assembly / installation on concrete splash pad, equipment systems installation and hookups.

Splash Pad Design Notes:

1. ARC design services are based on ideal site locations and conditions.
2. ARC design services do not include soil corrections, demolition planning, site elevation plans, utility planning / design or relocation of utilities. (i.e. based on water, waste and power being available at designed area's of splash pad by others.)
3. All permits and costs of permits are not included in our splash pad design package.
4. Design package will be prepared based on ARC's interpretation of Local health code.
5. Pricing does not include sealed Engineer Stamp.

Any additional drawings associated with project outside of splash pad to be made by others. (sidewalks, landscaping, electrical)"



Quote for: **Gautier**

Pricing Summary

Equipment & Services Total

Total Price for Equipment and Services as described above:

\$137,343

FOB Eden Prairie Freight:

\$3,113

Optional Services:

Sealed Engineering Stamp –

Add:

ARC to have drawings stamped by a licensed PE in the State of project.

\$1,900

System Startup and Training –

Add:

ARC to provide (1) factory direct technician for (1) day of system startup, balancing, and owner training.

\$4,719

***ARC offers on-site supervision and startup services at additional costs.**

***Equipment Enclosures are offered at additional costs (otherwise mechanical equipment to be stored in above ground equipment enclosure, by others).**



Quote for: **Gautier**

General Conditions

***Terms of payment are 25% down with order and balance due prior to shipment.**

***Proposal is subject to the attached terms and conditions.**

***Proposal and pricing valid for 30 days.**

- * This proposal and pricing is based on our interpretation of the sections of the RFP or specification that have been made available to us. Exceptions have been noted where ever possible. In the event of a conflict between the language in the specification and the proposal, the language in the proposal takes precedence and is the basis of the proposed pricing. ARC reserves the right to reject any order based on differences in pricing. ARC reserves the right to reject any order based on differences in interpretation of the specification, or for any reason, at the time an order is tendered.
- * ARC will not initiate work with out a fully executed contract or purchase order. Fabrication will not be initiated until complete submittal approvals have been received.
- * Submittals will be provided within two-three weeks of receipt of a fully executed contract or purchase order.
- * The proposed equipment can generally be shipped within 6-8 weeks after receipt of completely approved submittals. Lead time will be updated at the time of order execution.
- * Sales tax is not included in the prices quoted. All applicable Federal, State and Local sales or use taxes must be paid by the customer.

If you have any questions or comments concerning this information, please call 952-345-6440.

Thank you for the opportunity to bid on this project.

Quote for: **Gautier**

Acceptance of Proposal

Proposal **#15164**

April, 2015

Client name:

Company:

Address:

Final contract amount \$ _____

Client authorized signature

Date

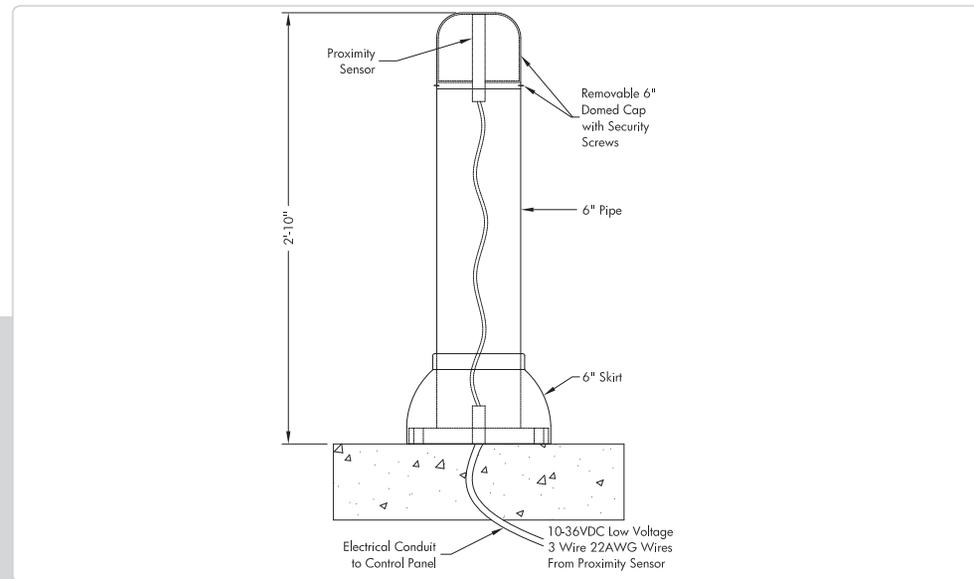
Please print name

The signing of this proposal hereby authorizes the client's acceptance of the above work as described.
The client has read, understands and agrees with the terms and conditions of this proposal.

Thank You, from the ARC team.



Specifications for: MECHANICAL COMPONENTS



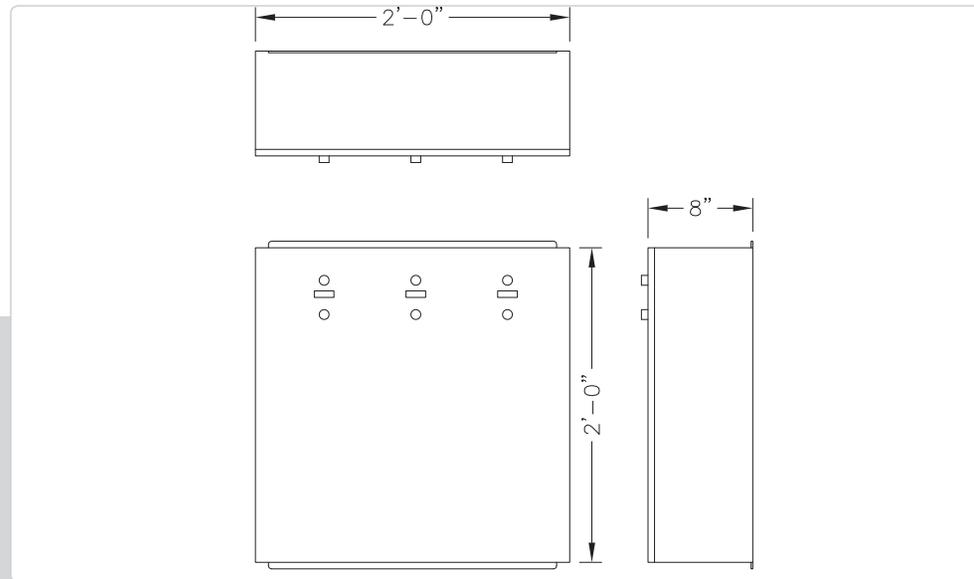
Activation Bollard

Activation Bollard is a structure that has a low voltage proximity sensor within the cap of the bollard. When patrons touch the top of the bollard a signal will go to the control panel to activate water flow. Activation bollards are used to turn on/off entire splash pad features or designed zoned areas.

May consist of:

- Stainless steel or structural plastic 6" diameter structure with 150 lb mounting flange
- Mounting hardware
- Touch sensor proximity sensor
- Removable domed cap with security screws
- 6" base skirt

Specifications for: **MECHANICAL COMPONENTS**



Control Panel

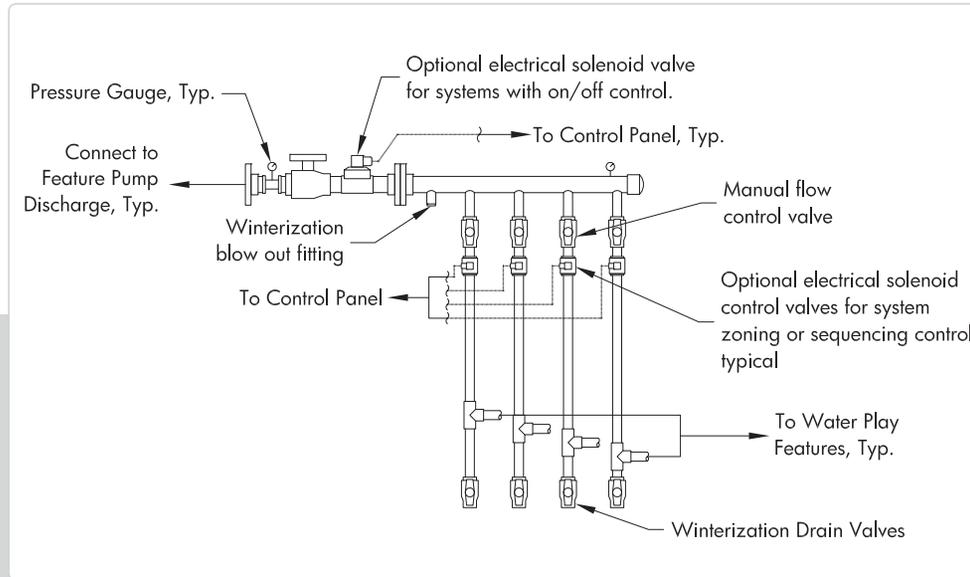
Control Panels are used to control simple on/off operations of water play activities or incorporate operation interface Programmable Logic Controller, (PLC), to create splash pad zoning or sequencing activities.

All control panels to be U.L. listed and may incorporate the following:

- Pump(s) motor starters
- GFCI circuit breakers
- Time clock controls to set hours of operation and set duration time of activated devices
- VFD pump controls
- Flow switch controls
- Pressure transducer controls
- Power feeds to manifold distribution solenoid valves
- Activation Bollard relay switches
- Chemical treatment system power feed
- Vault internal electrical distribution
- Waste valve box relay & power feed
- Water heater relay
- All NEMA rated components
- NEMA 4 enclosure

*All control panels are designed for specific project needs and require the following GFI protected power supplies:
 230/460V/3PH./60HZ and 120V/Single Phase/60HZ

Specifications for: MECHANICAL COMPONENTS



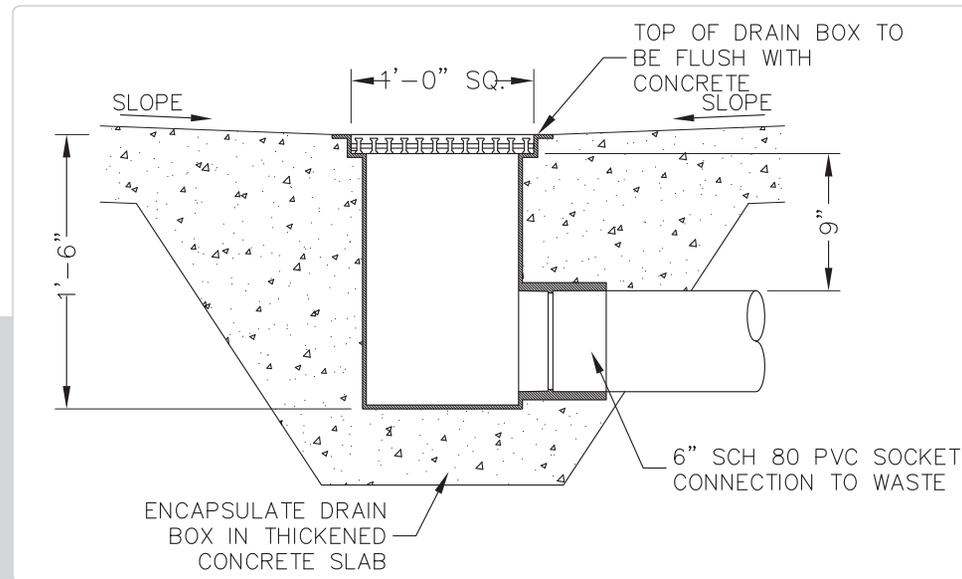
Distribution Manifold

Distribution Manifolds are pre-plumbed water delivery systems from feature pumping system to water play features. Standard distribution manifolds consist of manual flow control valves that regulate water flow levels to each water element for on/off control systems. When creating water play zones or sequencing water play activities, standard distribution manifolds can be upgraded with electric valves or solenoid valves.

May Consist of:

- Available in Stainless Steel or Schedule 80 Gas Welded PVC prefabricated manifold
- Manual flow control valves
- Electrical solenoid valves
- Winterization blow out
- Pressure gauge

Specifications for: MECHANICAL COMPONENTS



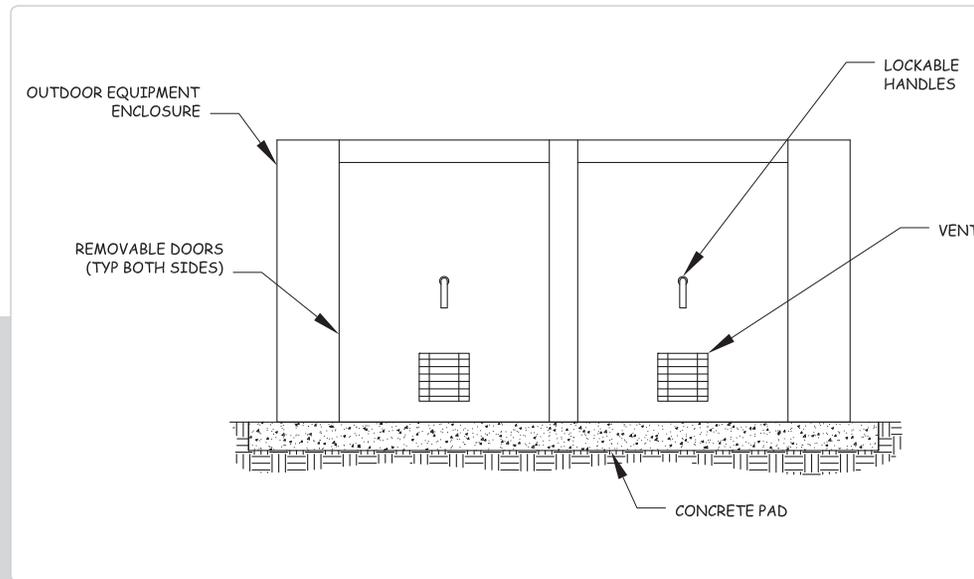
Drain Box Fiberglass

Drain Box to consist of 18 inch fiberglass sump for collection of splash pad water to water to waste or retainage area.

May Consist of:

- 18 inch sump
- Removable grate cover
- Foot friendly grate, flush mounted

Specifications for: MECHANICAL COMPONENTS



Equipment Enclosure

Equipment Enclosure to be a safe, lockable enclosure that will be directly mounted to a concrete support pad next to water play area.

May Consist of:

- Above ground mechanical system.
- Lockable access doors for servicing equipment systems.
- Must be installed on a concrete support pad (by others) with stainless steel anchorage hardware