



Gutter/Filter & Miscellaneous Operation & Maintenance Manual

Paddock Construction Company
High Point University, High Point, NC
8033228128

ATTENTION!

This Instruction Manual includes important safety information that should be read by the Engineer, Contractor, Owner, Operator, and Maintenance Personnel.

Paddock Recommends That A Copy of The Filter Operation Instructions Be Posted In The Filter Room.



Gutter Depth Marker/ Target - Vinyl Decal Installation

Your graphics will come in three layers, a backing paper layer on the bottom to keep the adhesive from being exposed, the vinyl layer (this is your graphic), and a masking layer on top. The masking layer makes the vinyl easier to handle and keeps everything pre-spaced for you to apply your graphic as one piece.

You will need:

- Clean rags
- Denatured alcohol
- Microfiber towel
- Vinyl applicator

It is best to do this process when the pool is not in use.

1. Lower Water Level
 - a. Water level should be lowered at least an inch below the bottom level of the decal.
 - b. Make sure to turn off any auto-fill devices to keep water from rising while applying decals.
2. Clean Gutter Thoroughly
 - a. Wipe away any moisture.
 - b. Clean the entire area where the decals will be applied using denatured alcohol and a clean rag.
 - c. Wipe dry with a clean microfiber cloth.
3. Apply Decal
 - a. Peel the backing from the decal making sure they stay attached to the protective paper on the front.
 - b. Take care to make sure the decal is level and spaced correctly.
 - c. Apply the decal sticking the top part first to the cleaned gutter surface and using your hand or applicator, slowly starting from the top, slide down the decal gently pressing it onto the gutter until the decal is fully applied.
 - d. Using the applicator, firmly press the decal from the center out to push any air bubbles to the edge.
 - e. Carefully peel the protective paper off making sure the decal sticks to the gutter (If decal starts to come off with the protective paper, stop, put the protective paper back as far as needed, and use applicator to press decal to gutter surface).
4. Cure
 - a. Wait at least 12 hours before introducing water to decals.
5. You can use a SEALITPEN to seal the edges of the graphic for longer durability. Follow directions on the pen.

If you have any question(s) contact customer service see below for our information.



Winterizing

Compak Vacuum Sand Filter

Follow the suggested procedures below:

1. Lower water level in pool below stainless steel gutter.
2. Shut down auto-fill controller and domestic water supply.
3. Once the water level is lowered, close the main drain valve, perimeter overflow valve, return to pool valve to isolate the filter from the pool and open remaining valve(s) to prevent pipes breaking if freeze occurs.
 - a. In high water table areas we recommend that some water is left in the filter to prevent lifting from hydrostatic pressure from ground water. If this is not an issue please pull water level down to the sand level, turn off pump, refer to step #3, and place a small bilge pump in the backwash trough to remove remaining water.
4. Remove drain plugs from pump box (if available) on filter tank and pump housing.
5. Drain and blow out all auxiliary lines such as chlorinators, heaters, sample lines, etc.
6. Check filter and pipes periodically through winter months for possible excess water in these areas in case of valve leakage or rain water.
7. Cover pool if possible or remove debris ASAP to prevent surface damage or excess algae.
8. Power down Mark 5, recirculation pump and VFD (if provided). Put the VFD disconnect switch in the off position. Supplemental heat will be required if the room temperature drops below (-20° F).
9. Disconnects for recirculation pump and optional VFD should be lockout / tag out to prevent accidental powering of equipment.

Helpful Hint:

It is recommended that a manual backwash at a full flow rate for an extended time of 5 to 6 minutes is done a minimum of once a year. If your system has the optional air scour feature, it is recommended that the air scour feature is not used during this suggested preventive maintenance backwash. This suggested manual extended flow backwash extends the media life and could prevent having to replace the sand in your filter.

MAIN DRAIN INSTALLATION - SIGNOFF FORM

Job Name, City, State: _____ Job No.: _____

The following information is required to validate the expressed warranty. Complete this form upon start-up of pool and return via email (subject: Main Drain Installation) or mail to the address below.
info@paddockindustries.com

PLEASE NOTE: Warranty **DOES NOT** go into effect until completed installation form has been received by Paddock Pool Equipment Company.

Date of Main Drain Installation: _____

Service Life of Cover/Grate: > 20 years -- This SOFA is UNBLOCKABLE

Select Installed P/N & Model	Qty	Location (comp., therapy, warm-up, lifestyle)	Mounting Position	Suction Outlet P/N & Model #	Maximum Flow per IAPMO R&T
<input type="checkbox"/>			Floor Use	P/N 9300046 Model # 2424PCFC - 1818ESMD (sump), 6" Connection	915 GPM
<input type="checkbox"/>			Wall Use		
<input type="checkbox"/>			Floor Use	P/N 9300044 Model # 2424PCFC - 1818ESMD (sump), 8" Connection	920 GPM
<input type="checkbox"/>			Wall Use		
<input type="checkbox"/>			Floor Use	P/N 9300006 Model # 2424PCFC - 2424ESMD (sump), 8" Connection	920 GPM
<input type="checkbox"/>			Wall Use		
<input type="checkbox"/>			Floor Use	P/N 9300007 Model # 2424PCFC-AVRD - 2424ESMD (sump), 10" Connection	920 GPM
<input type="checkbox"/>			Wall Use		
<input type="checkbox"/>			Floor Use	P/N 9300011 Model # 2448PCFC-AVRD - 2448ESMD (sump), 12" Connection	3500 GPM
<input type="checkbox"/>			Wall Use		3000 GPM
<input type="checkbox"/>			Floor Use	P/N 9300013 Model # 2448PCFC-AVRD - 2448ESMD (sump), (2) 12" Conn's	3500 GPM
<input type="checkbox"/>			Wall Use		3000 GPM
<input type="checkbox"/>			Floor Use	P/N 9300056 Model # 2448PCFC-AVRD - 2448ESMD (sump), 14" Connection	3500 GPM
<input type="checkbox"/>			Wall Use		3000 GPM

Signature: _____

Contractor/ Installer:

Contractor/Installer: (Print name)

Signature: _____

Owner/Owner Representative:

Owner: (Print name)

Date: _____

Date: _____

I have instructed customer proper maintenance of main drains.

I have read and understand instructions as instructed by contractor/installer as to proper operations.

THE INSTALLATION SIGNOFF FORM TO BE PERMANENTLY POSTED NEAR THE PUMP CONTROLS, & A COPY GIVEN TO THE POOL OWNER & A COPY KEPT WITH OTHER POOL RELATED DOCUMENTS



Designing the future of stainless steel perimeters

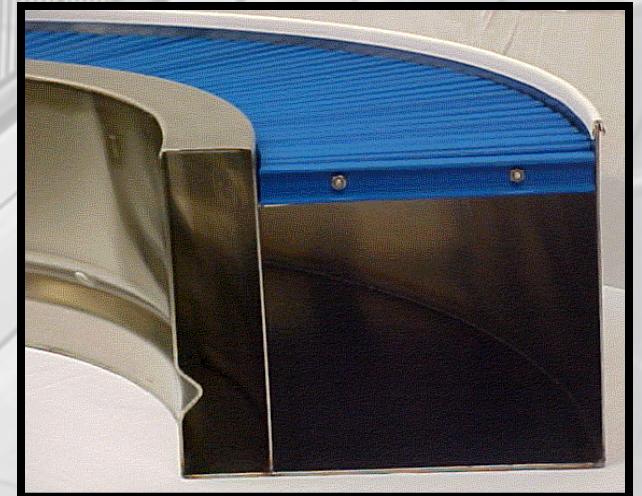
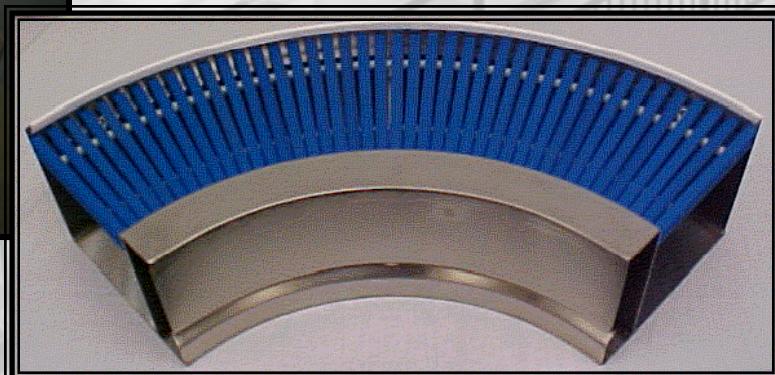


PADDOCK
POOL EQUIPMENT COMPANY

The best stainless steel perimeter just got better!

The Radius Section

- Increased Channel Efficiency and Flow
 - Safer Configuration for the User
 - Corner Maintenance Eliminated
 - Aesthetic Free Form Design





To Backwash Using Air Scour:

Shut off UV, Heaters, chemical controller(s), Water Level Controller, etc. 5-10 minutes prior to Backwash.

1. Reset vacuum limit switch if tripped. Close Main Drain valve #1 and Perimeter Overflow valve (#7). Draw the filter tank level down to top of sand bed, opening backwash viewport to see. Slowly close return to pool valve (#3), then shut off pump. Close Pump Suction Valve (#2).
2. Open Air Scour Control valve (#12) and turn on air scour blower. Run 3-5 minutes while monitoring sand bed to ensure water is not bypassing valves. Once the sand bed is thoroughly agitated, turn off air scour blower and close valve (#12). **If the water level does start to rise during air scouring, turn off the air scour blower immediately. Re-check valves #1, #7, and #3 for full closure. If water rises above backwash trough during air scouring, it will allow sand to enter said trough and potentially return to the pool after the backwashing cycle.**
3. Open Backwash Influent valve (#8) and open Air Relief valve (#12A). Allow water level in the tank to rise until it stops. Close Backwash Influent valve (#8) and Air Relief valve (#12A).
4. Open Backwash Suction valve (#4). Start pump and open Backwash-To-Waste valve #5 slowly to the designated flow. Draw the filter tank level down to the equalization screen. Look through backwash viewport and open Backwash Influent valve (#8) to regulate and maintain water level just below equalization screen, allowing dirty water to flow over edge of backwash trough. Backwash 3-4 minutes or until the sight glass is clear.
5. Close Backwash Influent valve #8 and turn off pump. Close Backwash Suction valve #4. Close backwash viewport window. Open Perimeter Overflow Valve(s) #7 and Main Drain Valve #1 allowing water level to rise to maximum level. Open Pump Suction Header valve #2 and turn on filter pump. Rinse filter to waste 15-20 seconds
6. Open Return to Pool (#3) to first setting or notch while slowly closing Backwash-To-Waste valve (#5). Then set Return to Pool valve (#3) to marked position for designated flow rate.
7. Run 2-3 minutes and check operation, turn on UV, heaters, controllers, etc.

When backwashing, it is important to keep the water level in the filter compartment just above the top lip of the backwash trough partition to maximize the efficiency of the backwash flow and dirt removal. This can be observed through the viewport window in the equalization screen. With the proper setting of the backwash discharge to waste valve (#5), the backwash flow can be easily maintained at the proper level in the filter tank and in the backwash trough by modulating Backwash Influent valve (#8).

Helpful hint: It is recommended that a manual backwash at the maximum flow rate allowable by backwash water receptacle capabilities for an extended time of 5-6 minutes is done a minimum of once a year. The air scour feature is not used during this suggested preventive maintenance backwash. This suggested manual extended flow backwash extends the media life & could prevent having to replace the sand in your filter.



Note: If the filter pump for the pool loses prime during the backwash procedure, follow these steps:

1. Turn the filter pump off.
2. Open manual air bleed tube located in the pump box and open valve #12A to allow any trapped air to escape.
3. Check to make sure all valves are in the proper position.
4. Allow the water in the filter tank to equalize with the pool.
5. Once the water in the filter tank has equalized with the pool, close air bleed tube in pump box and valve # 12A.
6. Turn the filter pump back on.

General:

If debris accumulates on the vacuum equalization screen, it should be removed at regular intervals. This can be accomplished during backwashing. If it is necessary to enter the filter chamber, use the ladder provided and put your weight directly over the support angles.

The Vacuum Equalization Screen (VES) is held in place with fasteners. There is a window in the VES to permit visual inspection of the condition of the media surface. One section near the access ladder is made for easy removal for inspection of the area beneath the screen. All sections may be removed for maintenance operation if required.

If pump loses prime for any reason, let tank fill with pump "off" to displace air, then start pump.



STAINLESS STEEL PRODUCTS

Care & Maintenance Guide

General Precautions:

Scratching can occur on a bright finish by cleaners that contain hard abrasives or even by "grit" in wash water. The best preventive measure is to avoid using abrasive cleaners unless absolutely necessary. When abrasives are needed first experiment on an inconspicuous area. A "soft abrasive", such as Zud liquid or Bon Ami should be tried first to see initial test results. While cleaning with products mentioned be sure to observe direction of grain in material. Following grain while cleaning material will limit scratching. Many cleaners contain corrosive ingredients which require thorough cleaning and rinsing with clean water and is recommended for all cleaning procedures.

General Maintenance Procedures:

Stainless steel equipment will need to be cleaned on a regular basis for aesthetic considerations and to preserve corrosion resistance against evaporated chloramines or spotting. Stainless steel is protected from corrosion by a thin layer of chromium oxide. Oxygen from the atmosphere combines with chromium in stainless steel to form this passive chromium oxide film that helps protect against corrosion. Any contamination of surface by dirt, chlorides, greases, or other material will hinder this passivation process, and traps corrosive agents thus reducing corrosion protection. Chlorine and bromine used for sanitation are highly caustic chemicals to stainless steel, while heat and humidity enhance corrosiveness of these chemicals especially in natatoriums. Thus, some form of routine maintenance is necessary to preserve appearance and integrity of surface. Stainless steel is easily cleaned by many different methods. They actually thrive with frequent cleaning, and unlike some other materials it is impossible to "wear out" stainless steel by excessive cleaning. Your goal should be a robust cleaning and maintenance program to keep stainless steels protective chromium oxide layer intact which helps prevent corrosion.

To increase longevity of your stainless steel equipment, follow these steps:

1. Establish a proper grounding of all equipment being installed at aquatic facilities. Make it a point that dissimilar metals are not in direct contact of one another. Taking this precaution will minimize risk of forming an electrolytic cell between equipment, pool water and atmosphere at facility.



2. Once all equipment has been installed at facility, apply a coat of paste wax (automotive or marine wax) and buff equipment with soft cloth to assist in extended corrosion protection. Redo this process with waxing after using cleaners or at six-month intervals on stainless equipment. This wax will form a protective barrier between stainless steel and environmental elements left behind by evaporating pool water on equipment.
3. As stated previously rinse all equipment frequently with fresh water and dry with soft clean cloth. This should wash away any accumulated halogen salts such as chlorine or bromine. **DO NOT** use pool water, salt water, high PH or iron in water to clean your stainless steel products.
4. Pool equipment should be inspected regularly. Look for any tarnish, discoloration, stubborn stains, grease build up, blemishes or water spotting of stainless equipment. If apparent, then take appropriate steps to remove corrosive elements with a non-chlorinated stainless steel cleaner and water rinse.

NEVER use steel wool, sandpaper, hydrochloric acid, muriatic acid, mineral acids or harsh abrasive cleaners on stainless steel equipment. Steel wool will add to corrosion due to dissimilar metal materials coming into contact with equipment. Discoloration should be removed at first sign with a cleaner or polisher recommended for stainless steel equipment.

Note: Avoid adding chlorine in close proximity to stainless steel equipment. Dilute chlorine in 5-gallon bucket and pour as far from stainless equipment as possible. Also avoid cleaning masonry and pool decks with strong acid solutions that come in contact with stainless steel products. Do not pour straight muriac acid directly into pool for PH control. This method increases corrosion to stainless steel around application area.

Effective Cleaning Methods:

There are many choices available for cleaning stainless steel in market that consumers may utilize. Depending upon cleaning needed and degree of contamination, some products may be better than others. Although some products are listed as stainless steel cleaners, they may scratch surface and may contain chloride bleach which will discolor, tarnish or dull finish if not removed completely.

There are many industry associations that have listed available product that can be utilized in cleaning stainless steel products. Use of these proprietary names is intended only to indicate a type of product available and does not constitute an endorsement. Omission of any proprietary product does not imply inadequacy. Review each product being utilized in strict accordance with instructions on packaging. No one product is best for every form of cleaning, since there are many levels of corrosion.



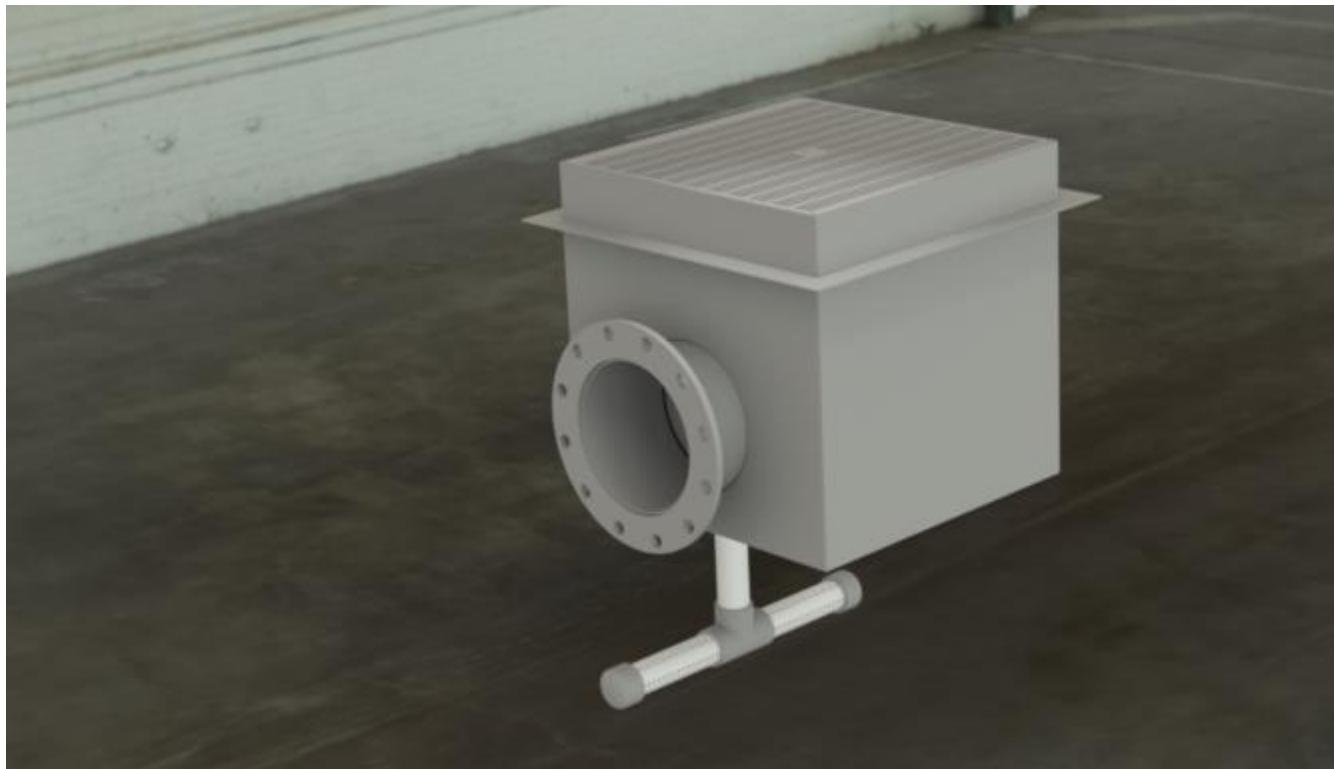
The simplest, safest and least costly method that will adequately do the job is always best. The longer a stain is on surface of stainless equipment, the higher chance of permanent discoloration or damage. Stainless steel surfaces thrive with frequent cleaning because there is no surface coating to wear off material. A soft cloth and clean warm water should always be first choice for mild stains and loose dirt and soils. A final rinse with clean water and a dry wipe will complete process and eliminate possibility of water stains. **DO NOT** use pool water, salt water, and water with high PH or iron content to clean your stainless steel products.

Dealing with stubborn stains, discolored or tarnished stainless steel product try and utilize recommended merchandise per various manufacturers. Some recommended product: CitiSurf product such as 77 plus or 2310, Sta-clean, Zud liquid, Samae, Bon Ami, Allchem concentrated cleaner, Twinkle, 3M stainless steel cleaner and polish, Sheila Shine, Perfect Sink, Liquid Nu Steel, Lumin cleaner, Gade FFF or Grade F Italian pumice, Highlite and many others.

Surface restoration may be needed when stainless steel is scratched or pitted due to heavy corrosion. This can be accomplished by mechanically polishing as opposed to chemical cleaning above. A professional familiar with process should be contacted to handle.



Main Drain Installation & Operation Manual



© Paddock Pool Equipment Co. | 555 Paddock Parkway, Rock Hill, SC 29730

Phone (803)324-1111 | www.paddockpoolequipment.com | 800-849-2729 Email:info@paddockindustries.com
Rev.05/2024



Table of Contents

1.0 REVISIONS.....	3
2.0 GENERAL INFORMATION	4
3.0 SERVICE LIFE OF PRODUCTS & COMPONENTS	8
4.0 INSTALLATION INSTRUCTIONS.....	10
5.0 USER MAINTENANCE	13
6.0 DRAWINGS.....	14
7.0 APPENDIX.....	15



Main Drain Operation Manual

1.0 REVISIONS

REVISION	DATE	DESCRIPTION	BY	CHECK
0	04/23/2024	Submission	VCC	
1	5/01/2024	Revised IAPMO R&T filing & content	VCC	

2.0 GENERAL INFORMATION

Introduction

For over fifty-five years, professionals of the most distinctive aquatic centers have come to rely on Paddock Pool Equipment Company to provide total project solutions. Far from just a pool equipment manufacturer, Paddock offers innovative high-performance products, and construction expertise to builders — all tailored to meet the unique demands of each individual project.

Paddock Suction Outlet Fitting Assemblies (SOFA) are certified by IAPMO R&T to comply with ANSI/APSP/ICC-16 2017 (PA 2021). These SOFAs shall not be installed in seating or backrest areas. There shall be no less than a 3-foot separation between suction fittings installed on a common line. These fittings are designed for installation with concrete, vinyl or composite lined pools.

Paddock's SOFA's have passed all required tests for body entrapment and hair entanglement. They have been approved to the maximum flow indicated on the SOFA flow rate chart.

**THIS DOCUMENT CONTAINS IMPORTANT SAFETY INSTRUCTIONS. READ, UNDERSTAND, AND FOLLOW
ALL WARNINGS AND INSTRUCTIONS.**

SAVE THESE INSTRUCTIONS!

Disclaimer: The information in this document is subject to change by Paddock Pool Equipment Company, Inc. ("Paddock") without notice. Paddock assumes no responsibility for inaccuracies or omissions and specifically disclaims any liabilities, losses or risks, personal, business or otherwise, incurred as a consequence, directly or indirectly, of the use or application of any or all of the contents of this document. For the latest or updated documentation, if available, contact Paddock at 555 Paddock Parkway, Rock Hill, SC 29730 T: (803) 324-1111 or visit us online at www.paddockpoolequipment.com.

Intended Use: Use of this document or the Paddock product(s) depicted herein are only for the purpose it/they were designed for; refer to the appropriate specifications sheet. For the latest or updated documentation, if available, contact Paddock at 555 Paddock Parkway, Rock Hill, SC 29730 t: (803) 324-1111, email to info@paddockindustries.com or visit us online at www.paddockpoolequipment.com.

EXCEPT AS EXPRESSLY STATED HEREIN, PADDOCK POOL EQUIPMENT COMPANY INC. MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS OF THE PRODUCT FOR ANY PARTICULAR PURPOSE, EVEN IF THAT PURPOSE IS KNOWN OR SHOULD HAVE BEEN KNOWN TO PADDOCK.

Patents: Paddock has patents pending on the product(s) which it manufactures depicted in this document.

VGBA Compliant Sump and Cover Key Terminology



ESMD - Entrapment Safe Main Drain (Sump Unit)
AVRD - Anti-Vortex Reduction Device (Stainless Steel)
PCFC - Paddock Certified Flat Cover (Flat Cover)
SOFA – Suction Outlet Fitting Assembly

ANSI/APSP/ICC-16 2007 (PA 2021)

Paddock VGBA Compliant SOFA models available

Model #	Description
9300046	18" X 18" ESMD W/6" Connection, 6" AVRD, Relief Valve and 24" X 24" PCFC, Floor and Wall Flow Rating at 915 GPM
9300044	18" X 18" ESMD W/8" Connection, 8" AVRD, Relief Valve and 24" X 24" PCFC, Floor and Wall Flow Rating at 920 GPM
9300006	24" X 24" ESMD W/8" Connection, 8" AVRD, Relief Valve and 24" X 24" PCFC, Floor and Wall Flow Rating at 920 GPM
9300007	24 X 24 ESMD W/10" Connection, 10" AVRD, Relief Valve and 24" X 24" PCFC, Floor and Wall Flow Rating at 920 GPM
9300011	24" X 48" ESMD W/12" Connection, 12" AVRD, Relief Valve And (2) 24" X 24" PCFC, Floor Flow Rating at 3500 GPM and Wall Flow Rating at 3000 GPM
9300013	24" X 48" ESMD W/ (2)-12" Connection, (2)-12" AVRD, Relief Valve And (2) 24" X 24" PCFC, Floor Flow Rating at 3500 GPM and Wall Flow Rating at 3000 GPM
9300056	24" X 48" ESMD W/14" Connection, 14" AVRD, Relief Valve And (2) 24" X 24" PCFC, Floor Flow Rating at 3500 GPM and Wall Flow Rating at 3000 GPM

Specifications:

Paddock ANSI/APSP/ICC-16 2017 (PA 2021)

Compliant and IAPMO R&T Certified Swimming Pool Suction Outlet Fitting Assemblies

- The Swimming Pool Suction Outlet Fitting Assemblies (SOFA) shall include a velocity, vacuum entrapment, hair entanglement **ANTI-VORTEX REDUCTION DEVICE (AVRD)** which has been submitted under ANSI/APSP/ICC-16 2017 (PA 2021) for testing by IAPMO R&T and found to be in compliance with this standard.
- The SOFA both cover/grate and sump, shall be fabricated from 304L stainless steel. The outlet and outlet piping assembly shall be fabricated with stainless steel piping and designed for compliance with the testing requirements ANSI/APSP/ICC-16 2017 (PA 2021).
- The open area of the SOFA shall be equal to or exceeds the open area of the outlet pipe of the SOFA.
- All grating fasteners in the assembly shall be 316L stainless steel Pan Head Phillips fasteners. All exposed security fasteners shall be inserted or removed with #2 Phillips Screwdriver with a maximum torque of 19.8-inch pounds. All fasteners shall be engaged by a minimum of three (3) threads.
- The velocity of water entering any orifice on the cover/grate of the SOFA during normal operation shall not exceed 1.5 feet per second.
- Blockable SOFAs in existing pools with single SOFA systems shall be installed with an additional anti-entrapment device or system (listed in section 9.4 of ANSI/APSP/ICC-16 2017).
- Paddock's SOFAs must be installed as a multiple SOFA system.
- SOFAs shall be chosen so that the individual flow rate is great than the pumping system's MAX system flow rate (not including secondary circulation systems - skimmer, gutters, etc.)
- Paddock SOFAs are not designed to use any pool surface as a portion of the flow path.

Paddock Suction Outlet Fittings Flow Rates

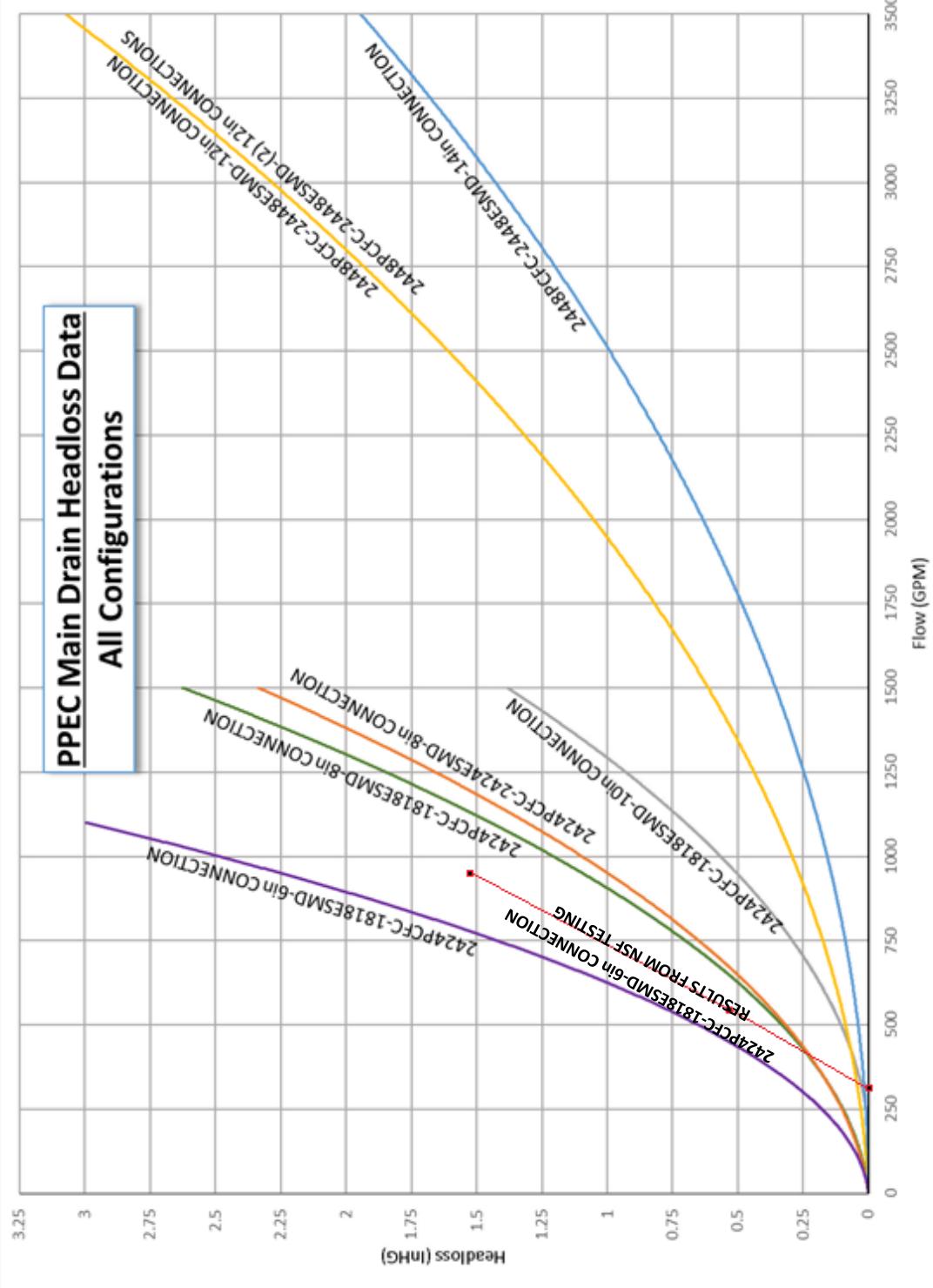
Suction Outlet P/N & Model #	Mounting Position	Total Open Area	Recommended Flow	Maximum Flow per NSF	Blockable or Unblockable
P/N 9300046 Model # 2424PCFC 1818ESMD (sump), 6" Connection	Floor or Wall Use	219.6 sq. inches	915 GPM @ 1.38 fps	915 GPM	Unblockable
P/N 9300044 Model # 2424PCFC 1818ESMD (sump), 8" Connection	Floor or Wall Use	219.6 sq. inches	920 GPM @ 1.38 fps	920 GPM	Unblockable
P/N 9300006 Model # 2424PCFC 2424ESMD (sump), 8" Connection	Floor or Wall Use	219.6 sq. inches	920 GPM @ 1.38 fps	920 GPM	Unblockable
P/N 9300007 Model # 2424PCFC-AVRD 2424ESMD (sump), 10" Connection	Floor or Wall Use	219.6 sq. inches	920 GPM @ 1.38 fps	920 GPM	Unblockable
P/N 9300011 Model # 2448PCFC-AVRD 2448ESMD (sump), 12" Connection	Floor Use	439.2 sq. inches	1996 GPM @ 1.5 fps	3500 GPM	Unblockable
	Wall Use	439.2 sq. inches	1996 GPM @ 1.5 fps	3000 GPM	Unblockable
P/N 9300013 Model # 2448PCFC-AVRD 2448ESMD (sump), (2) 12" Connections	Floor Use	439.2 sq. inches	1996 GPM @ 1.5 fps	3500 GPM	Unblockable
	Wall Use	439.2 sq. inches	1996 GPM @ 1.5 fps	3000 GPM	Unblockable
P/N 9300056 Model # 2448PCFC-AVRD 2448ESMD (sump), 14" Connection	Floor Use	439.2 sq. inches	1996 GPM @ 1.5 fps	3500 GPM	Unblockable
	Wall Use	439.2 sq. inches	1996 GPM @ 1.5 fps	3000 GPM	Unblockable

ONLY INSTALL ON SOFA CONFIGURATIONS LISTED.

CAUTIONARY NOTES:

- Do not exceed maximum allowable flow rate as stated above.
- If pump needs to be changed, a replacement must be the same as the original pump. If a different pump is required, a Registered Design Professional must be contracted to assure original flow rate is not exceeded.

Paddock Suction Outlet Fittings Head Loss Data (from CFD Study)



HEADLOSS MEASUREMENT TAKEN AS CLOSE AS PRACTICAL TO THE SUMP CONNECTION.

3.0 SERVICE LIFE OF PRODUCTS & COMPONENTS

Paddock Main Drain Cover Lifespan

- **Component Lifespans** – The SOFA cover and sump have a lifespan greater than 20 years. The screws should be replaced every 7 years.
- **Requirement** – Inspect cover at 10 years minimum for any signs of damage and replace if needed. (Covers older than 10 years must be inspected yearly by facility operators and documented, then every year thereafter for any damage compromising unit which would necessitate replacement.)
- **Requirement** – Replace screws every 7 years at minimum and document information for records (use only the size and grade of stainless-steel screws 8/32 x 1/2" SS 316 recommended by Paddock).
- **Recommendation** – Establish a yearly checklist for facility operators to document inspection of covers and screws for damage – replace any covers or screws immediately that are compromised, damaged or broken in any way. If threaded holes become damaged contact PPEC immediately to determine the best means of repair (brittle/missing pieces, cracks, non-superficial changes to color).
- The 2424ESMD and 2448ESMD Stainless Steel Sump Box and their components are permanently mounted in the pool shell and will not require replacement. This includes all integral parts listed on ESMD Parts List Breakdown.
- Paddock Main Drain Covers do not need to be replaced unless they are compromised, damaged or broken and all above requirements are met. These are stainless steel covers and should last life of facility if properly maintained. Ultraviolet light test which establishes life expectancy is for degradation of resin products such as PVC or plastics.
- SOFA(s) should be chosen so that the individual suction system flow rate is greater than the pumping system's **MAXIMUM** system flow rate.
- The capacity of the secondary circulation systems should not be included when evaluating an individual suction system flow rating.
- To determine the flow rating for pools with multiple blockable SOFAs in one body of water without isolation valves combine all SOFAs minus the flow rate of one. If not, all SOFAs flow rates are equal subtract the largest flow rate. The flow rating for existing pools with a single blockable SOFA is the flow rating of the SOFA when also installed w/an additional device to prevent suction entrapment. The flow rating of a single blockable SOFA without an additional device is zero.
- The flow rating for pools with single or multiple unblockable SOFAs shall be the combined flow rate of al SOFAs pipe together on one body of water.
- SOFAs shall not be located on backrests or seats.
- When installing and using this equipment basic safety precautions shall always be followed including the "**Important Safety Instructions**" included in Section 4 Installation Instructions.
- Service life begins when the SOFA is installed (with or without water).

4.0 INSTALLATION INSTRUCTIONS

SAVE THESE INSTRUCTIONS!

IMPORTANT SAFETY INSTRUCTIONS READ, UNDERSTAND, AND FOLLOW ALL WARNINGS AND INSTRUCTIONS

IMPORTANT: READ AND STORE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

WARNING! Install this equipment in accordance with the instructions provided. FAILURE TO FOLLOW INSTRUCTION AND/OR USE WITH COMPONENTS NOT PROVIDED BY PADDOCK AND INTENDED TO BE USED WITH THIS PRODUCT MAY RESULT IN IMPROPER POSITIONING OR FUNCTIONING OF SUCTION OUTLET AND MAY CAUSE SEVERE PERSONAL INJURY OR DEATH.

CAUTION LABEL: REMOVE AND INSTALL ALL EXPOSED SCREWS WITH A PHILLIP #2 SCREWDRIVER. APPLY A MAXIMUM TORQUE OF 19.8 INCH POUNDS. DO NOT USE POWER TOOLS TO INSTALL FASTENERS.

NOTE: GRATE ALIGNMENT & ELEVATION IS CRUCIAL. IF NOT PROPERLY ALIGNED, HOLES WILL NOT MATCH. MARK GRATE LOCATION ON FRAME TO MATCH FOR REINSTALLATION LATER. THE GRATE MUST BE SET FLUSH WITH POOL FLOOR, IF NOT THE EDGES POSE A HAZARD FOR POOL OCCUPANTS. FIELD MODIFICATIONS NOT AUTHORIZED BY PADDOCK POOL EQUIPMENT COMPANY OR THESE INSTALLATION INSTRUCTIONS SHALL VOID THE SOFA CERTIFICATION. ANY MODIFICATION THAT INCREASES THE FLOW RATE OF THE CIRCULATION SYSTEM SHALL REQUIRE RE-EVALUATION OF THE COVER/GRADE AND SUMP TO ENSURE THAT THE FLOW RATING OF THE SUCTION OUTLET FITTING ASSEMBLY (SOFA) IS NOT EXCEEDED.

NO CONFIGURATION CHANGES TO THE STRUCTURE OR FLOW PATH OF THIS DRAIN ASSEMBLY ARE ALLOWED UNLESS THE NEW CONFIGURATION HAS BEEN CERTIFIED.

ADHESIVES AND PERMANENT ATTACHMENT METHODS ARE PROHIBITED. THE COVER IS TO REMAIN REMOVABLE.

INSPECT FOR MISSING, BROKEN OR CRACKED SUCTION FITTINGS, THESE SHALL BE REPLACED BEFORE BATHERS ARE ALLOWED TO USE THE POOL.

ANY LOOSE COVER/GRAVES AND ASSOCIATED COMPONENTS SHALL BE REATTACHED BEFORE BATHERS ARE ALLOWED TO USE THE POOL.

*** **Make** sure product is properly cleaned with Sheila Shine or similar after installation. Carbon contamination could show up as surface rust in a couple of months from dissimilar materials coming in contact with stainless steel. Example: carbon drill bits or saw blades.

Installation: RENOVATION

1. Bonding SOFAs (Electrical Inspection may be required).
 - a. Chip to find rebar in structural frame of pool, which is grounded.
 - b. Attach grounding lug to existing structural rebar. (reference National Electric Code Article 680)
 - c. Attach grounding lug and 8-gauge grounding wire to structural frame of pool.



2. Drain Assembly for Testing
 - a. The Paddock SOFA includes a blanking plate to allow for plumbing pressure testing.
 - b. The supplied hardware will allow for installation of the blanking plate and the AVR. Ensure the blank plate is removed prior to putting the pool in operation.

3. Completing installation

- a. Confirm all suction outlet fitting components and fastener receptacles are clean and free of debris or obstructions during installation of cover/grate and fasteners.
- b. Start all fasteners by hand to ensure proper thread engagement and prevent cross threading then tighten to a maximum torque of 19.8-inch pounds. **Do not use power tools to install fasteners.**
- c. Make sure that cover is flush to the existing pool finish and confirm snugness of the cover/grate to the sump/frame by a hand check after installation.
- d. Marcite voids around frame if needed.
- e. Give owner certificate of compliance and extra screw pack for cover.
- f. **Log date of installation once work is completed.**

Contact Paddock Pool Equipment Company, Customer Service for assistance.

5.0 USER MAINTENANCE

Inspection Schedule

Daily (or before each use of the facility):

- a. Inspect the cover/grate, including fasteners, for damage or tampering each operation day.
- b. Missing, broken or cracked covers/grates, including fasteners, shall be replaced before bathers are allowed to use the pool.

Important Notes

- Before removing the cover/grate(s), mark the cover/grate that matches the screw hole(s) and make sure the smooth side is facing up. This will insure placement of cover/grate(s) will line-up correctly. Improper install of the cover/grate(s) will cause the screws to not fit the sump and a hazard to the bathers.
- Any loose cover/grates and associated components shall be reattached before bathers are allowed to use the pool.
- All exposed fasteners on Paddock Main Drain Cover/Grate require a Phillip #2 Screwdriver for insertion and removal. Start all fasteners by hand to ensure proper thread engagement and prevent cross threading then tighten to a maximum torque of 19.8-inch pounds. DO NOT USE POWER TOOLS TO INSTALL FASTENERS.
 - a. Confirm all SOFA components and fastener receptacles are clean and free of debris or obstructions during installation of cover/grate and fasteners.
 - b. Make sure that cover is flush to the existing pool finish and confirm snugness of the cover/grate to the sump/frame by a hand check after installation.
- Paddock Pool Equipment Company must be contacted in the event a fastener fails to engage (stripped or cross threaded hold) the stainless sump/frame prior to allowing bathers to return to the pool.

Winterization

The **winterization procedure** is to inspect drain(s) for cracks and damages.

- Replace grate if damaged. Also, inspect screws and make sure grate(s) is secure. Replace any missing screws. If required, remove grate(s) and associated hardware to allow for a sump pump to be utilized to prevent water from freezing in the sump.
- Store removed components in a well-marked box and store in a location that allows for easy retrieval for installation prior to putting the pool back into service. See above Important Notes.



Main Drain Operation Manual

6.0 DRAWINGS

Main Drain Assembly Drawing(s) (In Drawing Folder)



Main Drain Operation Manual

7.0 APPENDIX

Appendix



MAIN DRAIN INSTALLATION - SIGNOFF FORM

Job Name, City, State: _____ Job No.: _____

The following information is required to validate the expressed warranty. Complete this form upon start-up of pool and return via email (subject: Main Drain Installation) or mail to the address below.

info@paddockindustries.com

PLEASE NOTE: Warranty **DOES NOT** go into effect until completed installation form has been received by Paddock Pool Equipment Company.

Date of Main Drain Installation: _____

Service Life of Cover/Grate: > 20 years -- This SOFA is UNBLOCKABLE

Select Installed P/N & Model	Qty	Location (comp., therapy, warm-up,lifestyle)	Mounting Position	Suction Outlet P/N & Model #	Maximum Flow per IAPMO R&T
<input type="checkbox"/>			Floor Use	P/N 9300046 Model # 2424PCFC - 1818ESMD (sump),6" Connection	915 GPM
<input type="checkbox"/>			Wall Use		
<input type="checkbox"/>			Floor Use	P/N 9300044 Model # 2424PCFC - 1818ESMD (sump),8" Connection	920 GPM
<input type="checkbox"/>			Wall Use		
<input type="checkbox"/>			Floor Use	P/N 9300006 Model # 2424PCFC - 2424ESMD (sump), 8" Connection	920 GPM
<input type="checkbox"/>			Wall Use		
<input type="checkbox"/>			Floor Use	P/N 9300007 Model # 2424PCFC-AVRD - 2424ESMD (sump), 10" Connection	920 GPM
<input type="checkbox"/>			Wall Use		
<input type="checkbox"/>			Floor Use	P/N 9300011 Model # 2448PCFC-AVRD - 2448ESMD (sump), 12" Connection	3500 GPM
<input type="checkbox"/>			Wall Use		
<input type="checkbox"/>			Floor Use	P/N 9300013 Model # 2448PCFC-AVRD - 2448ESMD (sump), (2) 12" Conn's	3000 GPM
<input type="checkbox"/>			Wall Use		
<input type="checkbox"/>			Floor Use	P/N 9300056 Model # 2448PCFC-AVRD - 2448ESMD (sump), 14" Connection	3500 GPM
<input type="checkbox"/>			Wall Use		

Contractor/ Installer:

Signature: _____

Owner/Owner Representative:

Signature: _____

Contractor/Installer: _____

(Print name)

Owner: _____

(Print name)

Date: _____

Date: _____

I have instructed customer on proper maintenance of drains.

I have read and understand instructions as instructed by contractor/installer as to proper operations.

THE INSTALLATION SIGNOFF FORM TO BE PERMANENTLY POSTED NEAR THE PUMP CONTROLS, A COPY GIVEN TO THE POOL OWNER & A COPY KEPT WITH OTHER POOL RELATED DOCUMENTS

SAFETY INFORMATION

This bulletin includes important safety information that should be read by owners, managers, service personnel, and anyone in charge of the pool or pool area. Also, we suggest a copy be posted for quick reference.

1. Only personnel trained and familiar with the proper use of pool chemicals should handle acid, liquid chlorine or chlorine compounds. Chemicals should never be used when swimmers are in the pool. Acid and liquid chlorine should always be stored, carried, or handled in plastic containers.
2. If grating is a part of the perimeter system, it should be kept firmly clamped down and in good repair at all times. When a section of grating become loose or damaged that particular area must be immediately covered and a replacement of grating ordered. Under no circumstances should swimmers be allowed to use any portion of the perimeter that contains loose or damaged grating. Perimeter grating is not intended for foot traffic. Swimmers should be advised not to walk, stand, or jump on perimeter grates.
3. Ladders and grab rails are intended for the use of one swimmer at a time; they are not designed for handstands or other gymnastic stunts and they should not be used for this purpose. Ladder treads should be inspected regularly. If a tread becomes loose or damaged, the ladder should be taken out of service until repairs are made.
4. Lifeguard Chairs are intended for the individual use of trained "on duty" lifeguards, one (1) guard per chair. Lifeguard chairs are not to be used by swimmers, spectators, or by more than one (1) person at a time. There should be no diving from portable lifeguard chairs. Umbrellas should be closed or removed from portable lifeguard chairs during windy conditions. All frame connections are to be checked for tightness. The seat is bolted to the frame assembly. It is important to advise all users to periodically check to determine that the studs are firmly fastened to the seat and the nuts are tight. If they become loose or detached, it could result in serious injury. On outdoor installations or usage, it is suggested that the seat be removed and stored inside during the winter.
5. Starting Platforms should only be used by trained competitive swimmers or under the direct supervision of an instructor. Swimmers should execute shallow racing dives only. Impact with the pool bottom can cause severe injury. Starting platforms have warning labels and inform the purchaser of the need to remove the platforms during non usage. If your starting platforms do not have warning labels, please contact the manufacturer immediately.
6. Bulkheads are designed and built for strength and safety. Any grating should be kept fully secured to avoid injury. **NO swimming under bulkhead. Never use bulkhead as a support or staging for equipment.** The bulkhead includes a compressor; please refer to owner's manual provided with the unit.

For questions concerning the usage of our equipment, please contact Paddock Pool Equipment Co., customer service.

GRATING

High Density Polyethylene (HDPE)

ADJUSTMENTS & CHARACTERISTICS with CARE & CLEANING MAINTENANCE

HDPE Grating Adjustments & Characteristics

HPDE grating is highly durable and will give years of good service in the pool environment. The grating is held in place by either a front capture strip and a rear HDPE camlock or by a HDPE camlock front and back. A 1/4" x 1 1/2" x 3/16" allen head screw is used to tighten the camlock.

- Grating can be gapped up to 3/8" (three-eighths of inch), however at normal operating temperatures, the gap for indoor pool is 1/8" (one-eighth of inch) and outdoor pool is 1/4" (one-fourth of inch). An outdoor pool grating will contract and expand with sizeable temperature swings. Larger gaps can be expected in cold temperatures. At initial startup grating may need to be adjusted when pool reaches operating temperature.
- Grating fasteners needs to be inspected at the start of the swim season and periodically throughout the year. Adjust as needed, by hand loosening cam-locks with a 3/16" allen wrench, re-adjust gaps as listed above and re-tighten.

Care and Maintenance

- Paddock's HDPE grating is marine-grade polymer sheeting which is resistant to most chemicals and requires little maintenance to keep it looking new.
- Keep harsh solvents, acids, wood stains and wood preservatives away from Paddock HDPE finish. They may cause permanent staining and damage.
- Staining from rust is very difficult to remove so keep uncoated non stainless metals away from HDPE material.
- Shoes with marking soles can leave scuff marks that can be difficult to remove

Cleaning

- For daily cleaning of everyday dirt and stains, use a non-abrasive cleaner such as "Zud" or "Soft Scrub" and a nylon brush to scrub lightly. Excessively hard scrubbing can mar the finish.
- Hard to remove stains will usually go away if you soak the area with bleach. **When using this method, you must remove the grating from the stainless steel so it will not cause corrosion.** Do not use 100% granular or tablet chlorine as a bleach alternate.
- Pressure washing can mar the finish.
- Petroleum based stains can be difficult to remove, soak the area with WD-40®. Then use acetone or toluene with a white nylon scrub pad (color-based pads can transfer dye color to finish when combined with acetone)
- Do not use MEK, turpentine or naphtha solvent.
- Do not use polishes such as Armor-All ® to non-skid areas, this will reduce the slip coefficient and cause a fall/slip hazard.



Paddock Pool Equipment Company, Inc.
555 Paddock Parkway
Rock Hill, SC 29730
United States of America

Ph: 803-324-1111

Submittal

Number: SO23413 Date: **24-Jul-23**

To:

Joe Sandy
Paddock Construction Company, Inc.
1120 E. White St.
Rock Hill SC 29730
United States

Danny Lafrancois

EMAIL: dlafrancois@paddockpool.com

PHONE #:

Project Name: **High Point University Pool House**

Project Manager: Trevor Ottley
ottley@paddockindustries.com
PHONE #: 803-372-6088

Qty	Description	Drawing	Approval
	Pool		
1	HZ1-316-36-14 Filter,HZ,316,36"Dia,14sf Filter,HZ,316,36"Dia,14sf - Gauges, Media, 2 Tees, 4 Manual Control Valves with Linkage, Air Relief	Cut Sheet	
1	200177 Sight,Glass,1-1/2",Bronze	Cut Sheet	
2	LDR-304-3T-1.9-.083 Ladder,3-Tread,304L,1.9X .083 - Pool - Add Powder Coating	Cut Sheet	
10	200153 Anchor, Deck,Wedge,1.90"Dia	Cut Sheet	
10	200058 Escutcheon,SS,1.90" Add Powder Coating	Cut Sheet	
1	Miscellaneous Miscellaneous F-MTY400 Handicap Lift with Battery, Cover, Charger, Caddy Cart, Anchor	Cut Sheet	



Paddock Pool Equipment Company, Inc.
555 Paddock Parkway
Rock Hill, SC 29730
United States of America

Spa			
4	200153 Anchor, Deck,Wedge,1.90"Dia	Cut Sheet	
4	200058 Escutcheon,SS,1.90" add Powder Coating	Cut Sheet	
1	200177 Sight,Glass,1-1/2",Bronze	Cut Sheet	
1	Miscellaneous Miscellaneous F-MTY400 Handicap Lift with Battery, Cover, Charger, Caddy Cart, Anchor	Cut Sheet	



Paddock Pool Equipment Company, Inc.
555 Paddock Parkway
Rock Hill, SC 29730
United States of America

Ph: 803-324-1111

Submittal

Number: SO23413 Date: 01-Sep-23

Submitted To:

To:

Joe Sandy
Paddock Construction Company, Inc.
1120 E. White St.
Rock Hill SC 29730
United States

Danny Lafrancois

EMAIL: dlafrancois@paddockpool.com

PHONE #:

Project Name: High Point University Pool House

Project Manager: Trevor Ottley
ottley@paddockindustries.com
PHONE #: 803-372-6088

Qty	Description	Drawing	Approval
175 ft	Pool 23413.01 - R200-304-DI-W Gutter,R200,304L,Drop-IN,W - 1-6" PO, 1-4" Return, 6 Surge Weirs, 5" DTR, 107 Straight Sections, 68' Radius Sections	23413.01	
1	HZ1-316-36-14 Filter,HZ,316,36"Dia,14sf Filter,HZ,316,36"Dia,14sf - Gauges, Media, 2 Tees, 4 Manual Control Valves with Linkage, Air Relief	Cut Sheet	
2	9400116 Rail,Hand,304,1.9X .083 - 90" Step Rail, 3 Uprights, Add Powder Coating	Cut Sheet	
	Spa 23413.02 - R200-304-DI-W Gutter,R200,304L,Drop-IN,W - 1-6" PO, 1-4" Return, 5 Surge Weirs, 5" DTR, 12' Straight Sections, 43' Radius Sections	23413.02	
2	9400116 Rail,Hand,304,1.9X .083 add Powder Coating - 5' Step Rail	Cut Sheet	



Paddock Pool Equipment Company, Inc.
555 Paddock Parkway
Rock Hill, SC 29730
United States of America

Ph: 803-324-1111

Submittal

Number: SO23413 Date: 24-Jul-23

To:

Joe Sandy
Paddock Construction Company, Inc.
1120 E. White St.
Rock Hill SC 29730
United States

Danny Lafrancois

EMAIL: dlafrancois@paddockpool.com

PHONE #: [REDACTED]

Project Name: High Point University Pool House

Project Manager:

Trevor Ottley

ottley@paddockindustries.com

PHONE #:

803-372-6088

Qty	Description	Drawing	Approval
2	<p>Pool</p> <p>MD-304-2424FC-2424-8/1 MainDrain,304L,2424FlatCover,24X24Sump,8"Conn</p>	Cut Sheet	
2	<p>Spa</p> <p>MD-304-2424FC-2424-8/1 MainDrain,304L,2424FlatCover,24X24Sump,8"Conn</p>	Cut Sheet	



Shelco, LLC
 370 Knollwood Street
 Suite 200
 Winston-Salem, North Carolina 27103
 P: (336) 760-5005

Project: 2301009 HPU Northwest Campus Pool House
 5th Street
 High Point, North Carolina 27268

Submittal #1300-2.0 - Swimming Pool Equipment 1300 - Swimming Pool

Revision	0	Submittal Manager	Connor Hill (Shelco, LLC - Winston-Salem)
Status	Open	Date Created	Aug 7, 2023
Issue Date	Aug 7, 2023	Spec Section	1300 - Swimming Pool
Responsible Contractor	Paddock Construction Company Inc	Received From	Jessica Blanton (Paddock Construction Company Inc)
Received Date		Submit By	
Final Due Date	Aug 14, 2023	Lead Time	
		Cost Code	
Location		Type	
Approvers	Marty Snyder (Mercer Architecture)		
Ball in Court	Marty Snyder (Mercer Architecture)		
Distribution	Marty Snyder (Mercer Architecture), Connor Hill (Shelco, LLC - Winston-Salem), Toby Hill (Shelco, LLC - Winston-Salem), Danny LaFrancois (Paddock Construction Company Inc), Jessica Blanton (Paddock Construction Company Inc)		
Description	Please see attached Swimming Pool Equipment submittals for your approval		

Submittal Workflow

Name	Sent Date	Due Date	Returned Date	Response	Attachments
General Information Attachments					
Marty Snyder		Aug 14, 2023		Pending	

Shultz Engineering Group

- Reviewed Reviewed With Comments
 Rejected Submit Specific Item
 Revise and Resubmit

This review is only for the limited purpose of checking for general conformance with the information given and the design concept expressed in the Contract Documents which include plans and specifications. Comments made regarding the shop drawing during this review do not relieve the contractor from compliance with the requirements of the Contract Documents. This review is not for the purpose of substantiating installation instructions or fabrication processes. Acceptance of a specific item shall not indicate acceptance of an assembly of which the item is a component. The Contractor is responsible for the accuracy of quantities, dimensions and confirmation that such dimensions work within the construction constraints of the project site. All construction means and methods, coordination of the Work of all trades; and performance of all work in a safe and satisfactory manner remain the responsibility of the Contractor.

By: Tammy Ellis Date: 8.26.23

Project No:

SHELCO, LLC

WE HEREBY STATE THAT THIS DOCUMENT HAS BEEN REVIEWED FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. THIS IN NO WAY RELEASES THE SUBCONTRACTOR / SUPPLIER FROM HIS RESPONSIBILITY TO ADHERE TO THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS, INCLUDING ALL DIMENSIONS, QUANTITIES, AND PERFORMANCE CRITERIA.

- NO EXCEPTIONS TAKEN
 EXCEPTIONS NOTED
 EXCEPTIONS NOTED - RESUBMIT
 REJECTED
 REJECTED - NOT REVIEWED
 INFORMATION

BY: C Hill
 DATE: 08/07/2023



Paddock Pool Equipment Company, Inc.
555 Paddock Parkway
Rock Hill, SC 29730
United States of America

Ph: 803-324-1111

Submittal

Number: SO23413 Date: 24-Jul-23

To:

Joe Sandy
Paddock Construction Company, Inc.
1120 E. White St.
Rock Hill SC 29730
United States

Danny Lafrancois

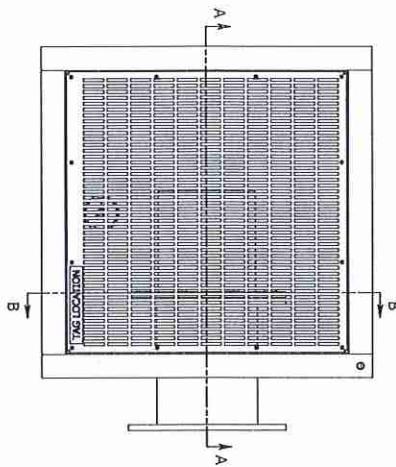
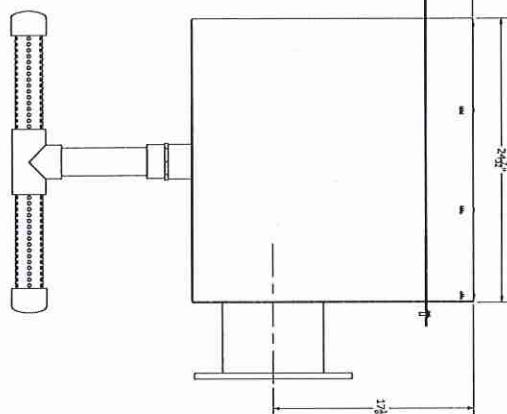
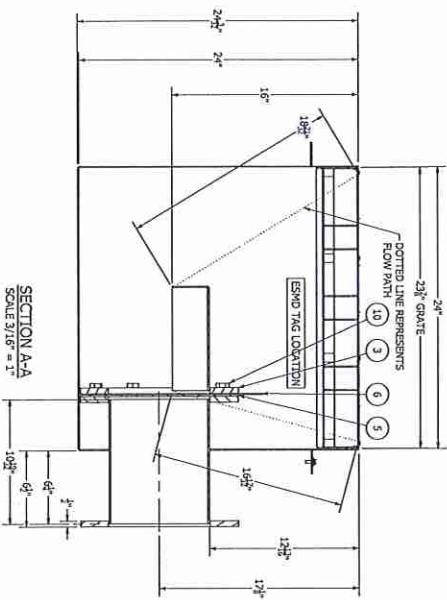
EMAIL: dlafrancois@paddockpool.com

PHONE #:

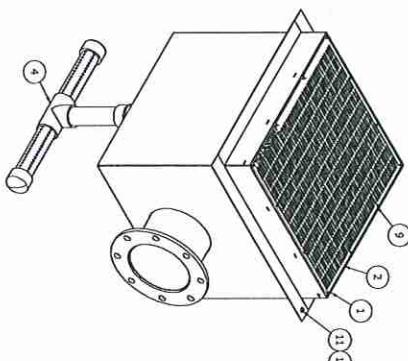
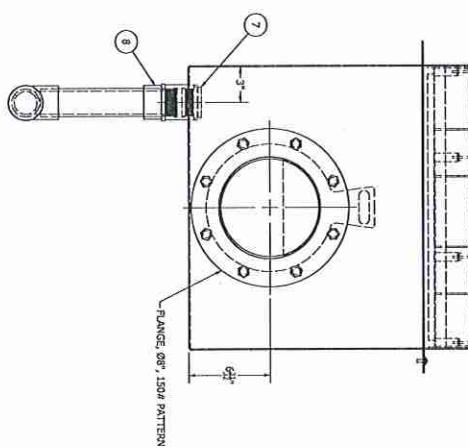
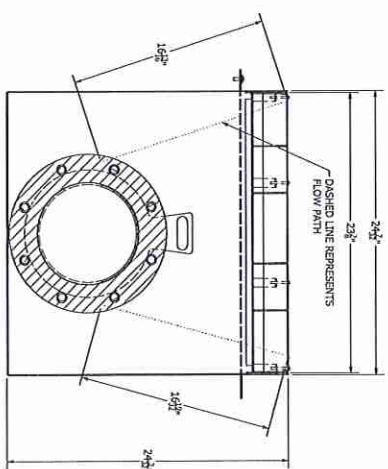
Project Name: High Point University Pool House

Project Manager: Trevor Ottley
ottley@paddockindustries.com
PHONE #: 803-372-6088

Qty	Description	Drawing	Approval
2	<p style="text-align: center;">Pool</p> MD-304-2424FC-2424-8/1 MainDrain,304L,2424FlatCover,24X24Sump,8"Conn <p style="text-align: center;">Spa</p>	Cut Sheet	
2	MD-304-2424FC-2424-8/1 MainDrain,304L,2424FlatCover,24X24Sump,8"Conn	Cut Sheet	



Shultz Comment: the connection should be 6" for both sets of drains. 8.26.23



ITEM	QTY	PART NUMBER	DESCRIPTION	PARTS LIST
1	1	E900-542-48-1	WELDMENT, 24" X .25" ESMO, 1/8" CONNECTION	
2	1	RE-2424	WELDMENT, 24" X .25" FLAT END COVER	
3	1	AIRDO-8	WELDMENT, 8" AXLE FOR 24" X 24" BOX	
4	1	AVRO-24	SHOP ASSEMBLY, HYDROSTATIC RELIEF FOR MAIN DRAIN BOXES	
5	1	P2104-860-11-80	GASKET, 28" X 15.5" PATTERN, 1/8" X 10' 31/2"	
6	1	BP00-394	BLANCHED PLATE, PLUGS X 14 INCH X 10' 31/2"	
7	1	SPP-056	CTC HYDRORELIEF VALVE, 1.5INCH X 10' 31/2"	
8	1	ACRTO-0200004P000005C-08-40	Z-MALE ADAPTER, SOCKET	
9	12	HMB-00000000000000000000000000000000	PAN HEAD Phillips Head, Torque Rating: 19.8 INCH LBS, #8-32 X 1 1/2"	
10	8	HMB-00000000000000000000000000000000	PAN HEAD Bolt, 5/8-11.5 X 1 1/4"	
11	1	HWSS-00000000000000000000000000000000	HEADLESS BOLT, 5/8-11.5 X 1 1/4"	
12	2	HWSS-002-28R	ROUND HEAD SET SCREW, 1/4"-20 X 3/4"	
			ROUND WASHER, 1/4"	

PART NUMBER: 93000

0	02/26/12	PIT	ORIGINAL IS DISCOURSED
REV.	DATE		REVISION HISTORY
DO NOT SIGN DRAWING			
DRAWN BY: D. J. HARRIS			
K & L INDUSTRIAL			
A MFG. CO., INC.			
P.O. BOX 1000			
ATLANTA, GA 30304			
TEL: 404-355-1000			
FAX: 404-355-1001			
E-mail: kandlind@aol.com			
www.kandlind.com			
PRINTED ON: 02/26/2012			
FILED ON: 02/26/2012			
REF ID: K&L-2012-02-26-001			
PART NO.: K&L-2012-02-26-001			
REV.: 0			
P/N: K&L-2012-02-26-001			
MATERIAL: 100% K&L EQUIPMENT			
MANUFACTURED: 02/26/2012			
EXPIRATION DATE: 02/26/2013			
SPECIFICATION: ASME B31.1			
DESIGNER: D. J. HARRIS			
CHECKED: D. J. HARRIS			
APPROVED: D. J. HARRIS			
PIT: D. J. HARRIS			
PIT DATE: 02/26/2012			
PIT APPROVAL: D. J. HARRIS			
PIT APPROVAL DATE: 02/26/2012			
PIT APPROVAL NUMBER: 001			
PIT APPROVAL SIGNATURE: 			



Paddock Pool Equipment Company, Inc.
555 Paddock Parkway
Rock Hill, SC 29730
United States of America

Ph: 803-324-1111

Submittal

Number: SO23413 Date: 24-Jul-23

Submitted To:

Danny Lafrancois

To:

Joe Sandy
Paddock Construction Company, Inc.
1120 E. White St.
Rock Hill SC 29730
United States

EMAIL: dlafrancois@paddockpool.com

PHONE #:

Project Name: High Point University Pool House

Project Manager: Trevor Ottley
ottley@paddockindustries.com
PHONE #: 803-372-6088

Qty	Description	Drawing	Approval
	Pool		
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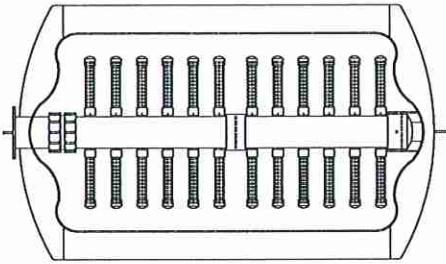
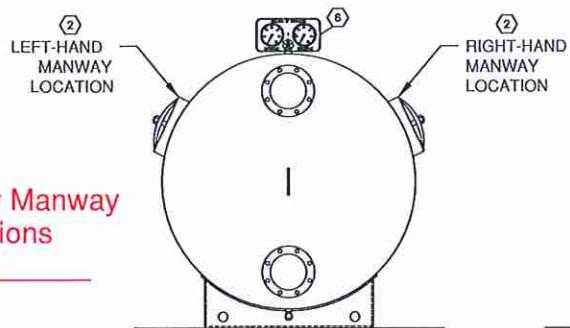
Paddock Pool Equipment Company, Inc.
555 Paddock Parkway
Rock Hill, SC 29730
United States of America

	Spa		
4	200153 Anchor, Deck,Wedge,1.90"Dia	Cut Sheet	
4	200058 Escutcheon,SS,1.90" add Powder Coating	Cut Sheet	
1	200177 Sight,Glass,1-1/2",Bronze	Cut Sheet	
1	Miscellaneous F-MTY400 Handicap Lift with Battery, Cover, Charger, Caddy Cart, Anchor	Cut Sheet	

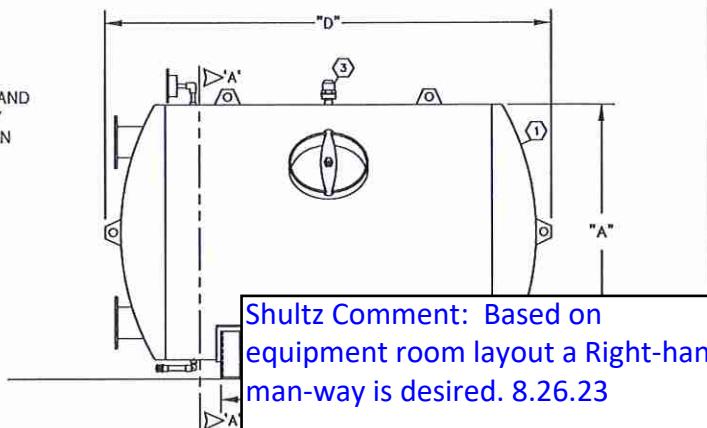
ITEM	DESCRIPTION
1	TANK
2	14" X 18' MANWAY ASSEMBLY (ONE PROVIDED, SPECIFY LOCATION)
3	AIR RELEASE VALVE
4	OVERDRAIN HEADER W/LATERALS
5	UNDERDRAIN HEADER W/LATERALS
6	#5840 GAUGE PANEL
7	FILTER SAND (.45 TO .55mm) UNIFORMITY COEFFICIENT NOT TO EXCEED 1.60
8	1/16 TO 1/8 GRAVEL MEDIA

GENERAL NOTES:

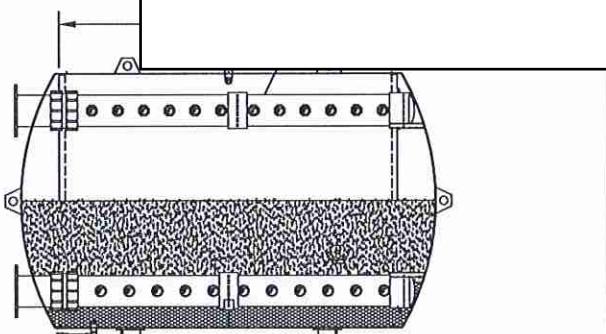
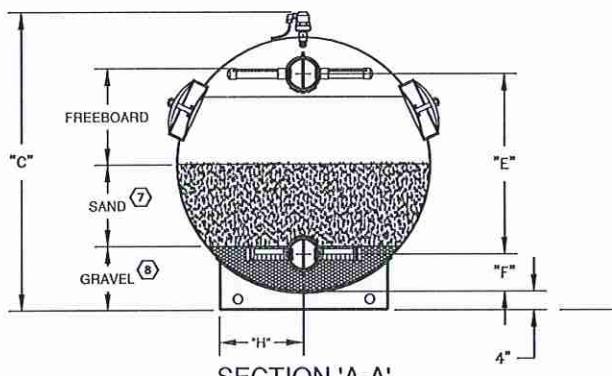
1. TANK MATERIAL-316L STAINLESS STEEL
2. EXTERIOR SURFACES TO BE COATED WITH BLUE PAD-COTE, AN NSF LISTED CHEMICALLY CURED SEMI-GLOSS EPOXY.
3. INTERCONNECTING PIPING-SCH. 80 PVC, MAX. VELOCITY LESS THAN 10 FPS.
4. FILTER WORKING PRESSURE IS 50 PSI. TEST PRESSURE IS 65 PSI.
5. TANK WARRANTED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP PER SPECIFICATIONS.



PLAN VIEW W/CUT-OUT
OF LATERAL LAYOUT



4 Manual Control Valves with Linkage



CENTERLINE SECTION

FILTER & BACKWASH RATE	FILTER & BACKWASH RATE UNITS IS GALLONS PER MINUTE, BASED ON 15 GPM/SQ FT OF FILTER AREA. FILTER AREA IS SQUARE FEET. PLUMBING SIZE IS NOMINAL NPT PIPE.												PLUMBING SIZE
	DIM. "A"	DIM. "B"	FILTER AREA	CATALOG NUMBER	DIM. "C"	DIM. "D"	DIM. "E"	DIM. "F"	DIM. "G"	DIM. "H"	MEDIA		
SAND CU. FT.	GRAVEL CU. FT.												
210	3'	4'	14	6723-H-4-1C	47.50*	59.50*	20.75*	7.00*	29.50*	12.00*	11	3.8	4"
248	3.5'	4'	16.5	6724-H-4-1C	53.50*	61.00*	28.00*	6.50*	30.50*	14.00*	16.2	4.7	4"
255	3'	5'	17	6723-H-5-1C	47.50*	71.50*	20.75*	7.00*	35.50*	12.00*	13.4	4.7	4"
287	4'	4'	19.15	6725-H-4-1C	59.50*	62.75*	35.00*	6.50*	31.00*	16.00*	22.9	5.1	4"
300	3.5'	5'	20	6724-H-5-1C	53.50*	73.00*	28.00*	6.50*	36.50*	14.00*	19.6	5.7	4"
300	3'	6'	20	6723-H-6-1C	47.50*	83.50*	20.75*	7.00*	41.50*	12.00*	15.8	5.7	4"
345	3'	7'	23	6723-H-7-1C	47.50*	95.50*	20.75*	7.00*	47.50*	12.00*	17.2	7.3	4"
347	4'	5'	23.15	6725-H-5-1C	59.50*	74.75*	35.00*	6.50*	37.00*	16.00*	27.5	6	4"
353	3.5'	6'	23.5	6724-H-6-1C	53.50*	85.00*	28.00*	6.50*	42.50*	14.00*	23.1	6.6	6"
390	3'	8'	26	6723-H-8-1C	47.50*	107.50*	20.75*	7.00*	53.50*	12.00*	18.5	8.9	6"
397	4.5'	5'	26.5	6726-H-5-1C	65.50*	76.38*	38.25*	6.75*	38.00*	18.00*	34.9	9.1	6"
406	3.5'	7'	27	6724-H-7-1C	53.50*	97.00*	28.00*	6.50*	48.50*	14.00*	26.4	7.5	6"
407	4'	6'	27.15	6725-H-6-1C	59.50*	86.75*	35.00*	6.50*	43.00*	16.00*	32.2	6.9	6"
435	3'	9'	29	6723-H-9-1C	47.50*	119.50*	20.75*	7.00*	59.50*	12.00*	20.7	9.6	6"
448	5'	5'	29.87	6727-H-5-1C	71.50*	78.00*	38.25*	10.88*	39.00*	20.00*	39.2	14.4	6"
458	3.5'	8'	30.5	6724-H-8-1C	53.50*	109.00*	28.00*	6.50*	54.50*	14.00*	29.6	8.2	6"
465	4.5'	6'	31	6728-H-6-1C	65.50*	68.38*	38.25*	6.75*	44.00*	18.00*	40.8	10.5	6"
467	4'	7'	31.15	6725-H-7-1C	59.50*	98.75*	35.00*	6.50*	49.00*	16.00*	37	8.4	6"
480	3'	10'	32	6723-H-10-1C	47.50*	131.50*	20.75*	7.00*	65.50*	12.00*	22.8	10.2	6"
510	3'-6*	9'	34	6724-H-9-1C	53.50*	129.18*	28.00*	6.50*	60.50*	14.00*	33	9.8	6"
523	5'	6'	34.87	6727-H-6-1C	71.50*	89.95*	38.25*	10.88*	45.00*	20.00*	45.9	17	6"
525	3'	11'	35	6723-H-11-1C	47.50*	151.58*	20.75*	7.00*	71.50*	12.00*	25	10.9	6"
527	4'	8'	35.15	6725-H-8-1C	59.50*	120.78*	35.00*	6.50*	55.00*	16.00*	41.8	9.8	6"
533	4'-6*	7'	35.5	6726-H-7-1C	65.50*	110.36*	38.25*	6.75*	50.00*	18.00*	46.8	12.2	6"
563	3'-6*	10'	37.5	6724-H-10-1C	53.50*	141.18*	28.00*	6.50*	66.50*	14.00*	36.4	11.4	6"

QTY: 1

ITEM NO.	DESCRIPTION	SALES DRAWING
PRINTED	1-CELL HORIZONTAL FILTER, 210-563 GPM FILTER RATE	DISPOSITION
REV.	JOB NAME & LOCATION	APPROVED
DATE	CUSTOMER	AS SUBMITTED
REVISION	PO Box 11676	APPROVED
INITIALS	(800)849-2729	NOT APPROVED



PADDOCK
POOL EQUIPMENT COMPANY

MISCELLANEOUS EQUIPMENT

5
8
1
8

Sight Glass



The sight glass is installed in the backwash line to allow operator to observe clarity of filter discharge water during backwashing. This permits shortest possible backwash, conserving water.

The sight glass is made from brass with a Lucite viewing tube. Sizes available are 1-1/2" and 2".

Submittal Information:

QTY: 1 for Pool
QTY: 1 for Spa

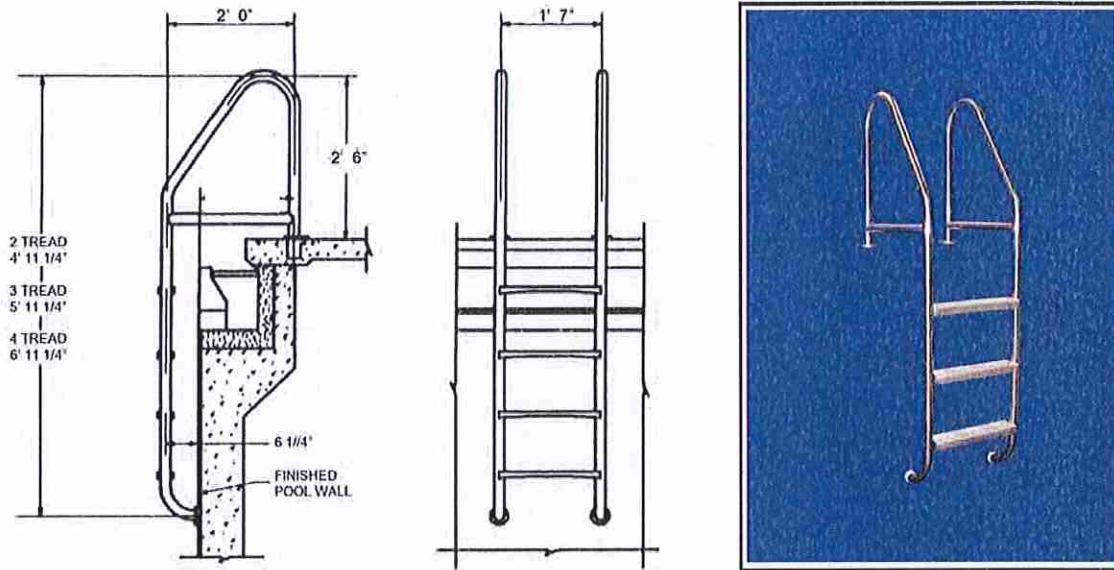
Additional Information



555 Paddock Parkway
Rock Hill, SC 29730
Ph: 803-324-1111
Fx: 803-324-1116



Ladder



Paddock's **Ladders** are fabricated from Type 304 or 316L stainless steel tubing with an outside diameter of 1.90" and standard wall thickness of .083". (Outside diameter of 1.5" or wall thickness of .120" is also available.)

Ladder rails are spaced 19" apart with a cross brace for added stability and furnished with slip-resistant stainless steel treads.

Exposed surfaces shall be polished to a Paddock buff finish.

A rubber bumper on each rail protects the interior pool finish.

Paddock deck anchors with Paddock escutcheon plates are available.

P/N _____, Model 4539-_____, 2-Tread Ladder Type _____, ____" OD x _____ Wall Less Anchors, Qty _____

P/N _____, Model 4540-_____, 3-Tread Ladder Type **304**, **1.9**" OD x **.083** Wall Less Anchors, Qty **2 for Poc**

P/N _____, Model 4541-_____, 4-Tread Ladder Type _____, ____" OD x _____ Wall Less Anchors, Qty _____

P/N _____, Model 4542-_____, 5-Tread Ladder Type _____, ____" OD x _____ Wall Less Anchors, Qty _____

Powder Coating

DECK EQUIPMENT

Wedge Deck Anchor

4
8
0
1



PN 200153

The body shall be constructed of cast bronze and shall have a tapered chamber to receive wedge by means of which a ladder or other rail may be held securely.

Wedge shall be of cast bronze and shall be drawn against rail being anchored by means of a $\frac{1}{2}$ " bolt.

Wedge deck anchor shall be provided with a ground connection at its base and shall have an anchoring protrusion at its center.

Paddock No. 4837 stainless steel escutcheon gracefully covers wedge deck anchor.

1.90" OD Tubing

Submittal Information:

QTY: 10 for Pool
QTY: 4 for Spa

Additional Information



555 Paddock Parkway
Rock Hill, SC 29730
Ph: 803-324-1111
Fx: 803-324-1116

DECK EQUIPMENT

Escutcheon

4
8
3
7



PN 200058

The polished stainless steel round 1.90" escutcheon plates are used with mounting anchors.

Note: 4 1/2" diameter

Submittal Information:

**QTY: 10 for Pool
QTY: 4 for Spa
Powder Coating**

Additional Information



555 Paddock Parkway
Rock Hill, SC 29730
Ph: 803-324-1111
Fx: 803-324-1116



Paddock Pool Equipment Company, Inc.
555 Paddock Parkway
Rock Hill, SC 29730
United States of America

Ph: 803-324-1111

Submittal

Number: SO23413 Date: 01-Sep-23

Submitted To:

To:

Joe Sandy
Paddock Construction Company, Inc.
1120 E. White St.
Rock Hill SC 29730
United States

Danny Lafrancois

EMAIL: dlafrancois@paddockpool.com

PHONE #:

Project Name: High Point University Pool House

Project Manager: Trevor Ottley
ottley@paddockindustries.com
PHONE #: 803-372-6088

Qty	Description	Drawing	Approval
175 ft	Pool 23413.01 - R200-304-DI-W Gutter,R200,304L,Drop-IN,W - 1-6" PO, 1-4" Return, 6 Surge Weirs, 5" DTR, 107 Straight Sections, 68' Radius Sections	23413.01	
1	HZ1-316-36-14 Filter,HZ,316,36"Dia,14sf Filter,HZ,316,36"Dia,14sf - Gauges, Media, 2 Tees, 4 Manual Control Valves with Linkage, Air Relief	Cut Sheet	
2	9400116 Rail,Hand,304,1.9X .083 - 90" Step Rail, 3 Uprights, Add Powder Coating	Cut Sheet	
	Spa 23413.02 - R200-304-DI-W Gutter,R200,304L,Drop-IN,W - 1-6" PO, 1-4" Return, 2 Surge Weirs, 5" DTR, 12' Straight Sections, 43' Radius Sections	23413.02	
2	9400116 Rail,Hand,304,1.9X .083 add Powder Coating - 5' Step Rail	Cut Sheet	

Shultz Engineering Group

Reviewed Reviewed With Comments

Rejected Submit Specific Item

Revise and Resubmit

This review is only for the limited purpose of checking for general conformance with the information given and the design concept expressed in the Contract Documents which include plans and specifications. Comments made regarding the shop drawing during this review do not relieve the contractor from compliance with the requirements of the Contract Documents. This review is not for the purpose of substantiating installation instructions or fabrication processes. Acceptance of a specific item shall not indicate acceptance of an assembly of which the item is a component. The Contractor is responsible for the accuracy of quantities, dimensions and confirmation that such dimensions work within the construction constraints of the project site. All construction means and methods, coordination of the Work of all trades; and performance of all work in a safe and satisfactory manner remain the responsibility of the Contractor.

By: Tammy Ellis Date: 10.6.23

Project No:

Paddock Pool Equipment Company

Gutter Flow Calculations

Project

High Point U- Pool- R200

Total Recirculation Rate, gpm

178

Pool Perimeter, feet

173

Average Gutter Width, inches

7.7755844

Usable Gutter Depth, inches

4.8125

Number of 90-degree corners

6

Number of 45-degree corners

0

Number of radiused corners

0

Number of PO Converters

1

Number of Return Converters

1

Supply tube area, square inches

15.61

Number of inlet nozzles

60

Max. tube pressure allowed, psi

7.5

Density of Fluid, lb_m/ft³

62.217 (Water at 80°F)

Local Gravity, ft/sec²

32.17

Absolute Viscosity (μ), lb_fsec/ft²

1.791E-05 (Water at 80°F)

Click on **Tools > Solver**, then press **Enter** twice

Total gutter system flow capacity is

805.42 gpm

Gutter collection rate is

274.87 gpm

Design for surge weirs is:

Adequate

Design for rimflow conditions is:

Adequate

Flow rate per nozzle

2.97 gpm

Nozzle Size

5

Nozzle Velocity

12.41 ft/sec

Supply Tube Velocity

1.83 ft/sec

Supply Tube Pressure

3.75 psi

Surge Capacity in Flow Channel

250.20 gallons

Navier-Stokes Continuity Equation:

$$\left[1 - \left(\frac{\rho}{m} \right)^2 W^5 g \eta^3 \right] \partial \eta = \frac{f}{8} \partial \left(\frac{x}{W} \right)$$

Solving this equation for turbulent flow conditions with m as the unknown variable yields

$$D_1 m^2 + D_2 \sqrt[4]{m^7} + D_3 = 0$$

where ρ = density of the fluid, lb_m/ft²

m = mass flow rate, lb_m/sec

g = acceleration due to local gravity, ft/sec²

L = length of channel, ft

W = width of channel, ft

η = fluid height to width ratio

f = Darcy friction factor, $\frac{0.316}{\sqrt{R_e}}$

x = distance along centerline of channel

μ = absolute viscosity, lb_fsec/ft²

y = depth of fluid, ft

R_e = Reynold's Number, $\frac{4m}{\mu(2y+W)}$

Francis Weir Formula:

$$Q = 3.33 L \sqrt{H^3}$$

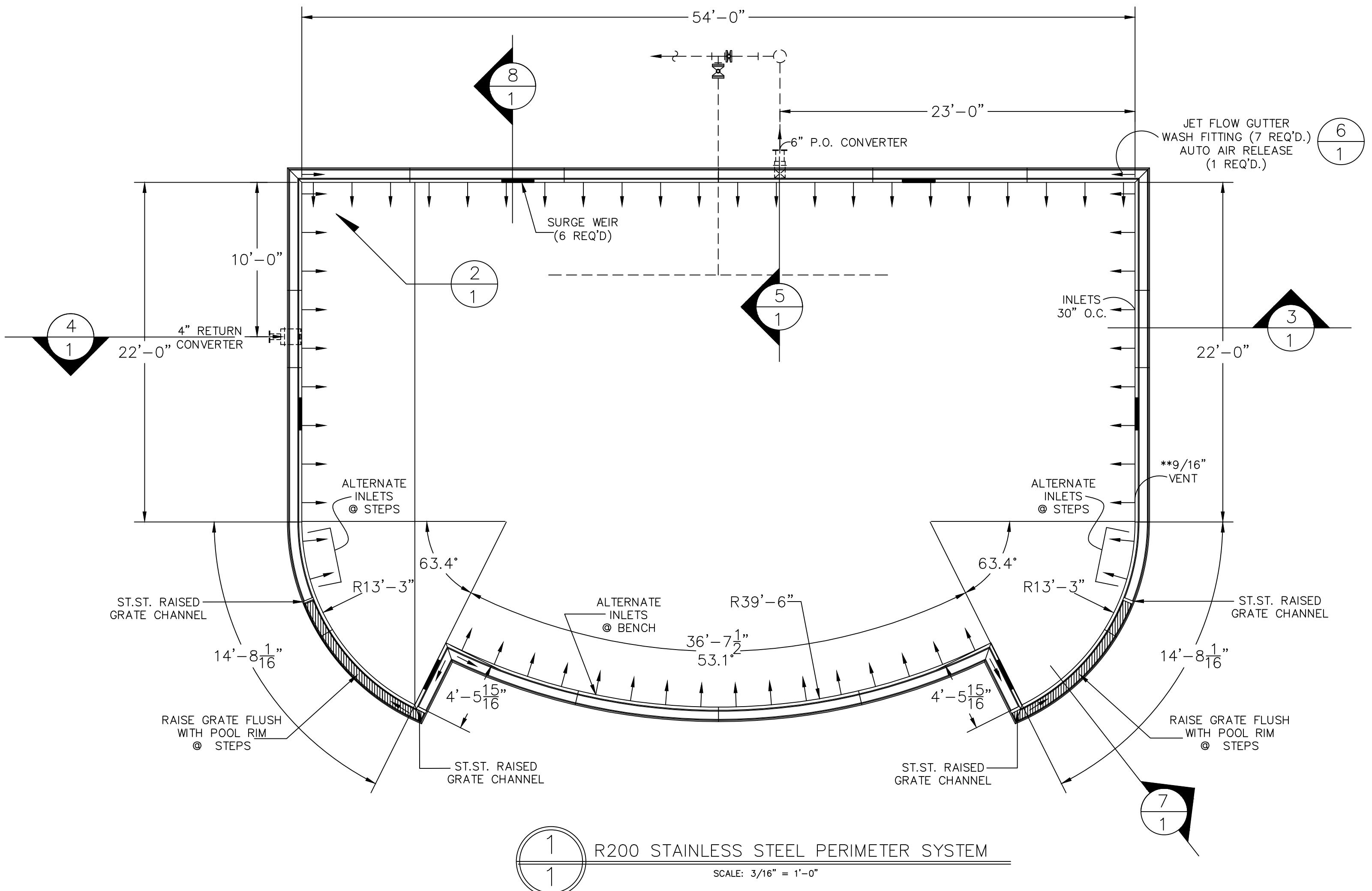
where

Q = flow rate, ft³/sec

L = length of weir, ft

H = height of water above crest of weir, ft

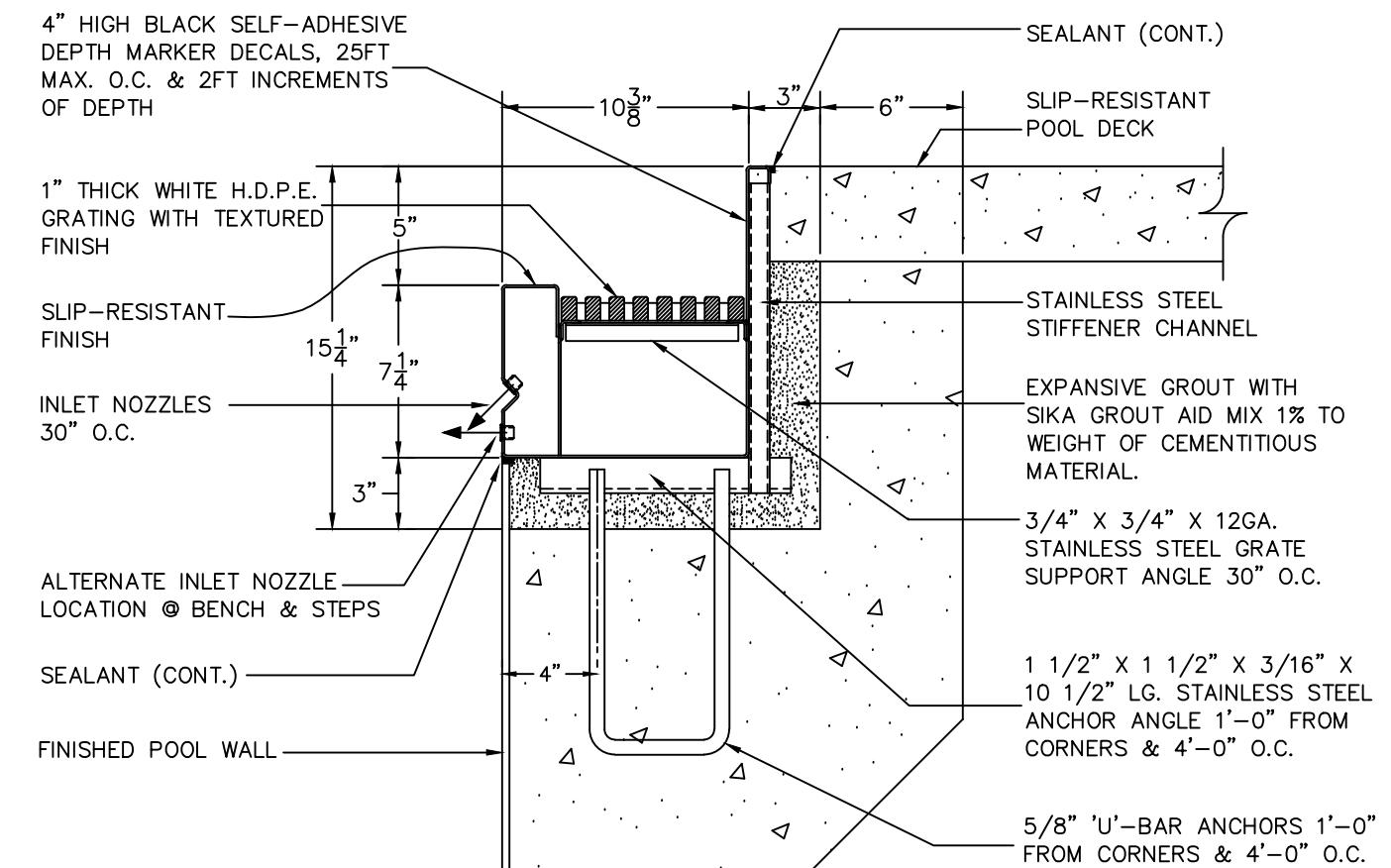
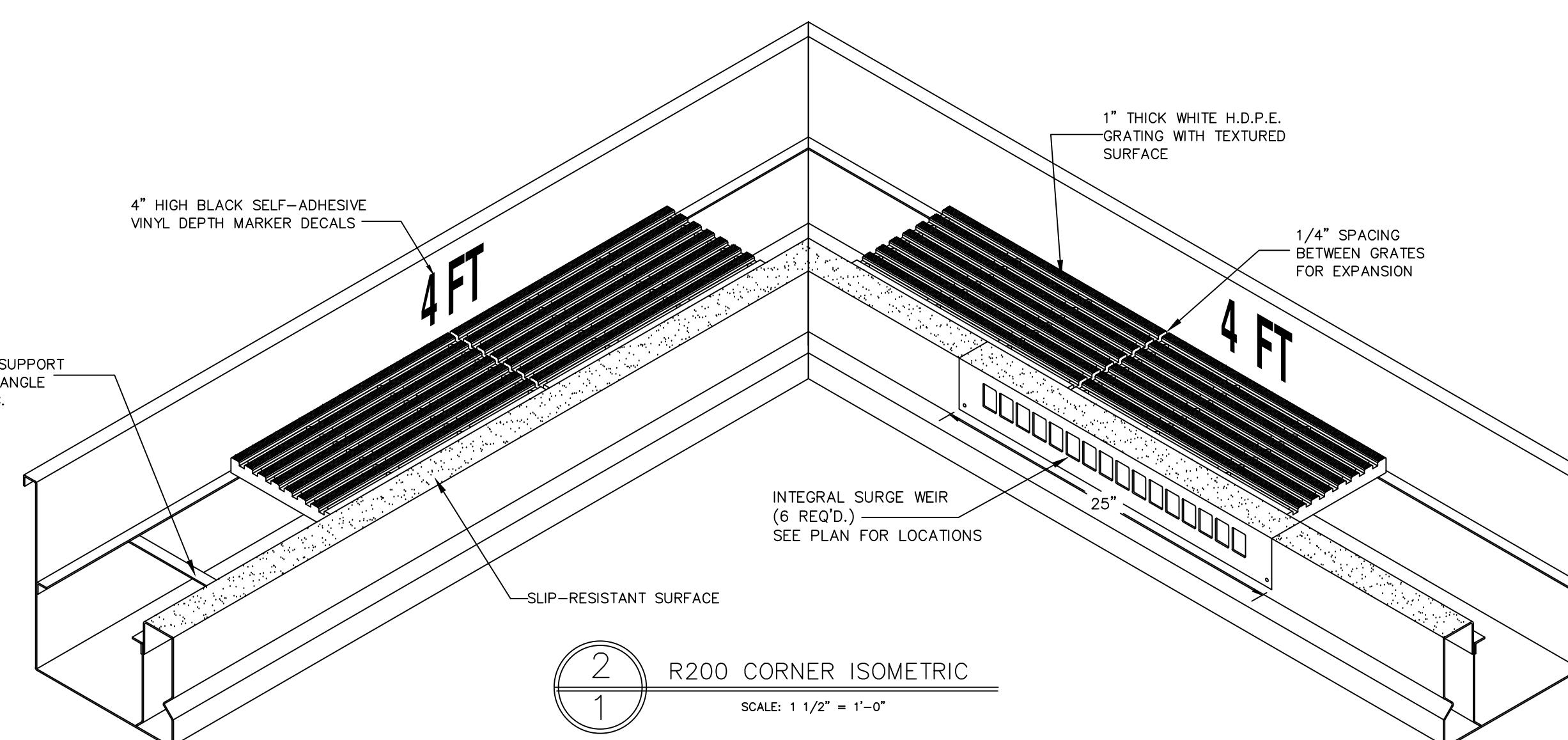
REVISIONS			
DATE	REV	DESCRIPTION	BY
2-27-23	1	ADDED (18) MAGNESIUM SACRIFICIAL ANODES	M.J.G.



POOL DATA R200	
POOL PERIMETER	172' -11 9/16"
POOL AREA	1728 SF
RECIRCULATION RATE	178 GPM
GUTTER SYSTEM FLOW CAPACITY	805.42 GPM
FLOW CHANNEL SURGE CAPACITY	250.2 GALS

DEPTH MARKER SCHEDULE (BLACK VINYL DECALS ON GUTTER)	
QTY	DEPTH
6	3 FT
5	4 FT

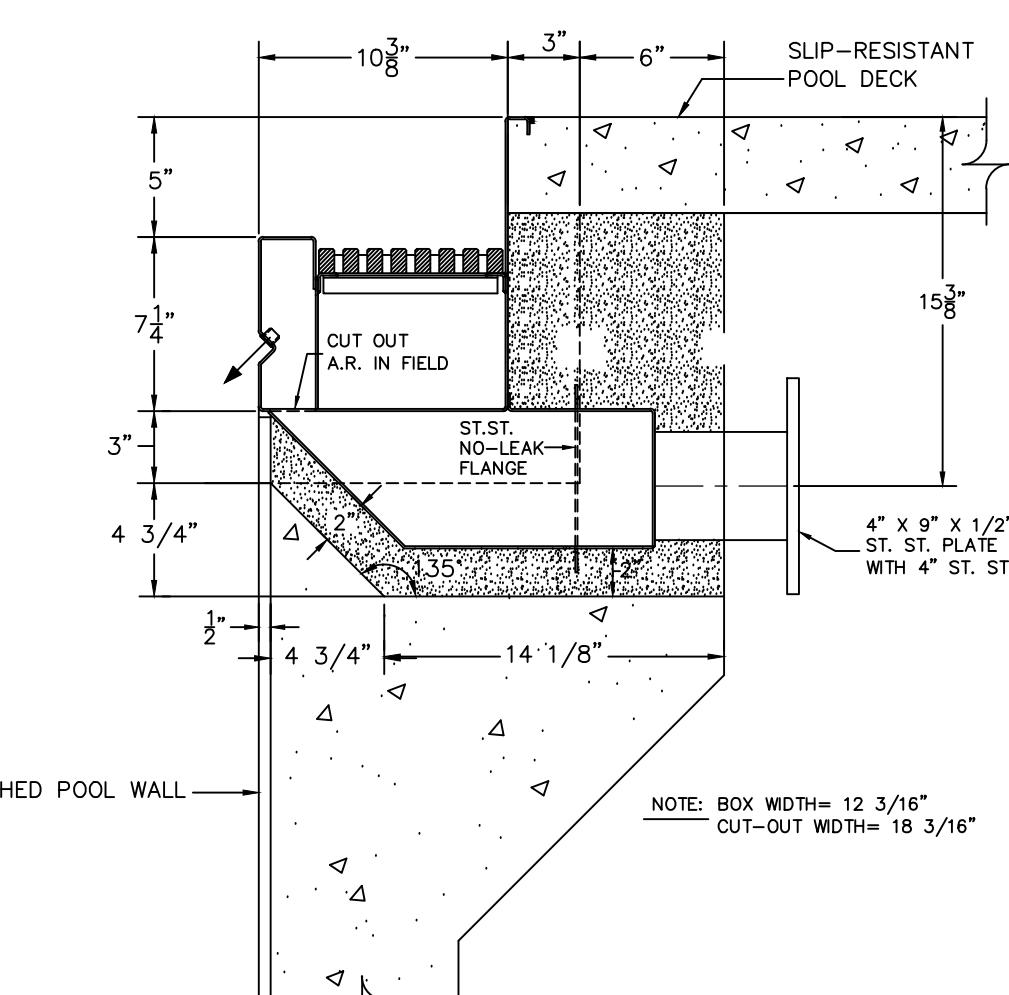
****NOTE: SHOP DRILL 35/64"Ø RET. TUBE
VENT HOLE. LEAVE UNPLUGGED FOR AT
LEAST TWO WEEKS TO ALLOW DEBRIS TO
EXIT THE TUBE THEN PLUG WITH 9/16" DI-
PLUG.**



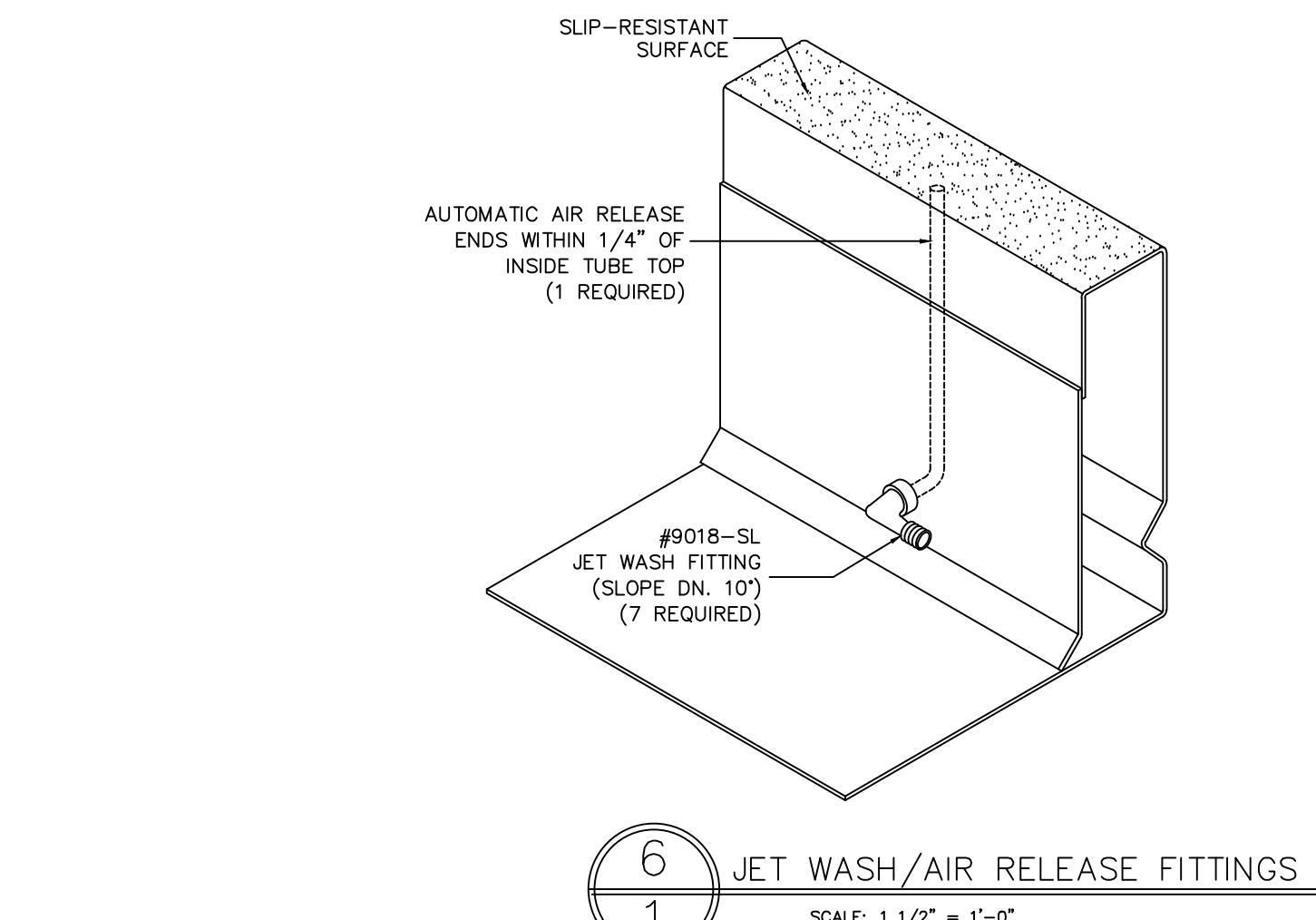
3 TYPICAL POOL WALL SECTION

TYPE 304L LOW CARBON STAINLESS STEEL R200 GUTTER SYSTEM
SCALE: 1 1/2" = 1'-0"

SCALE: 1 1/2 = 1-0

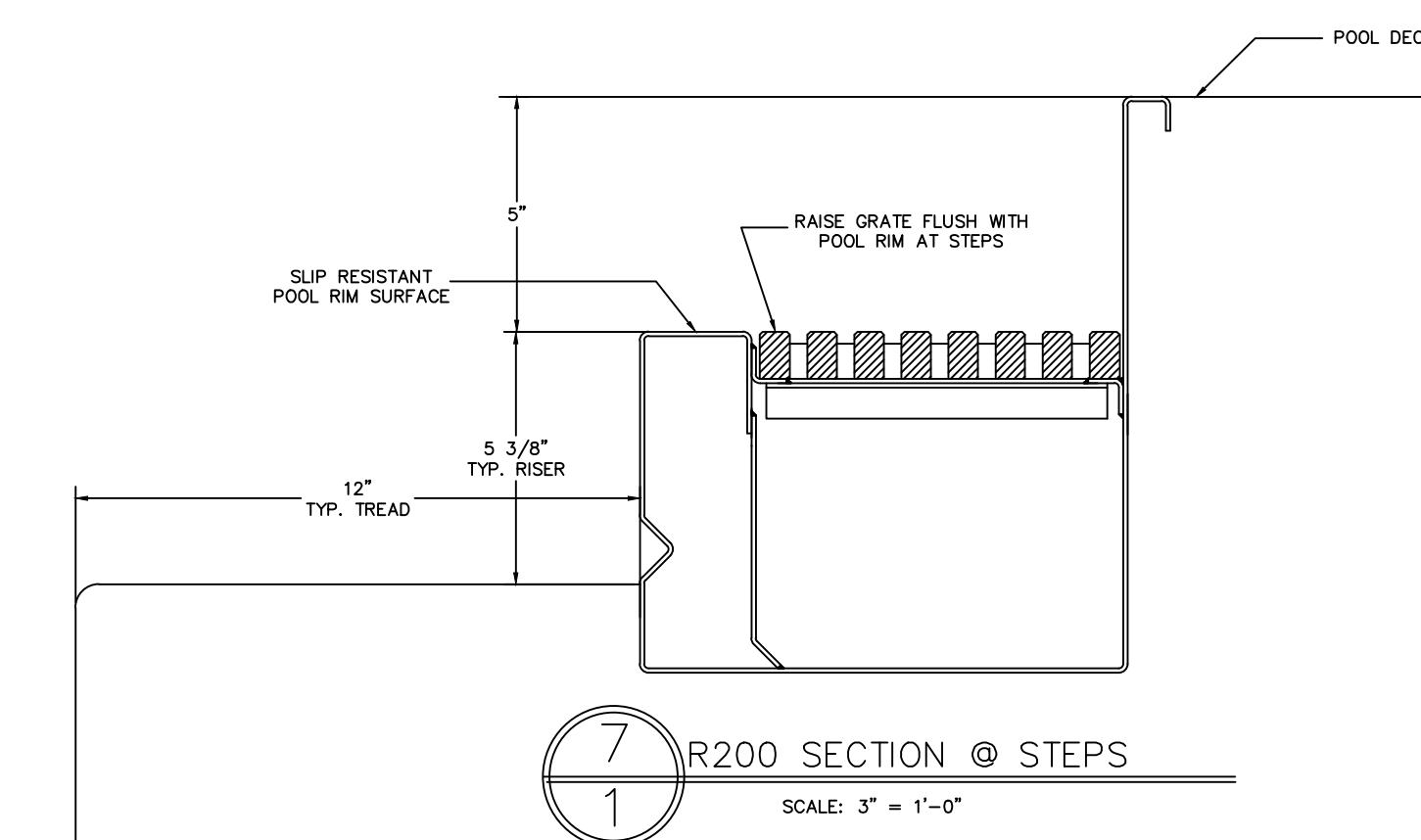


4 RETURN CONVERTER SECTION

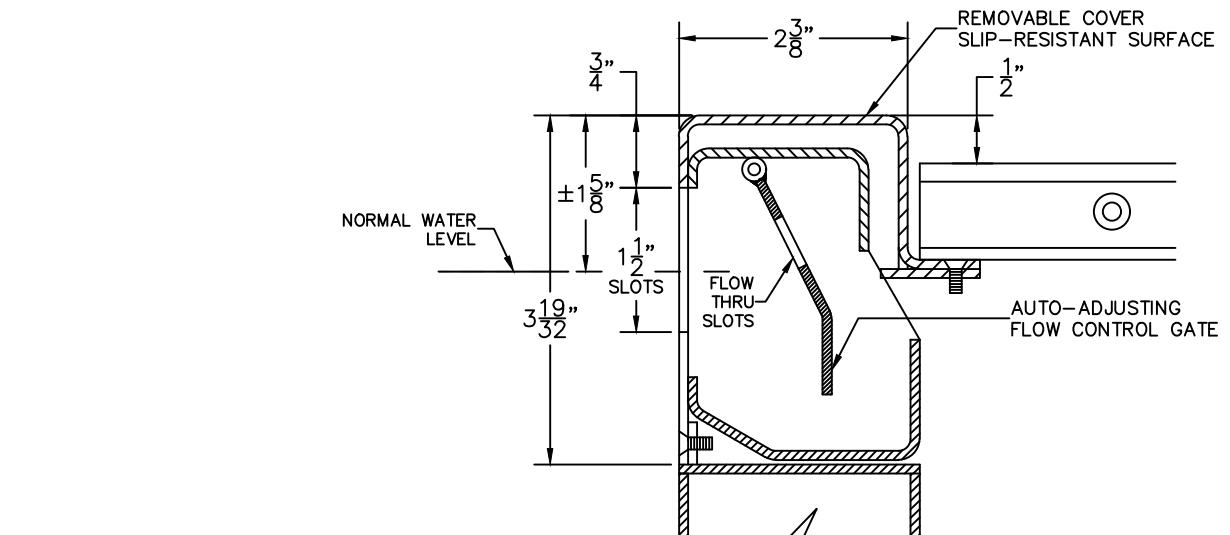


6 JET WASH/AIR RELEASE FITTINGS

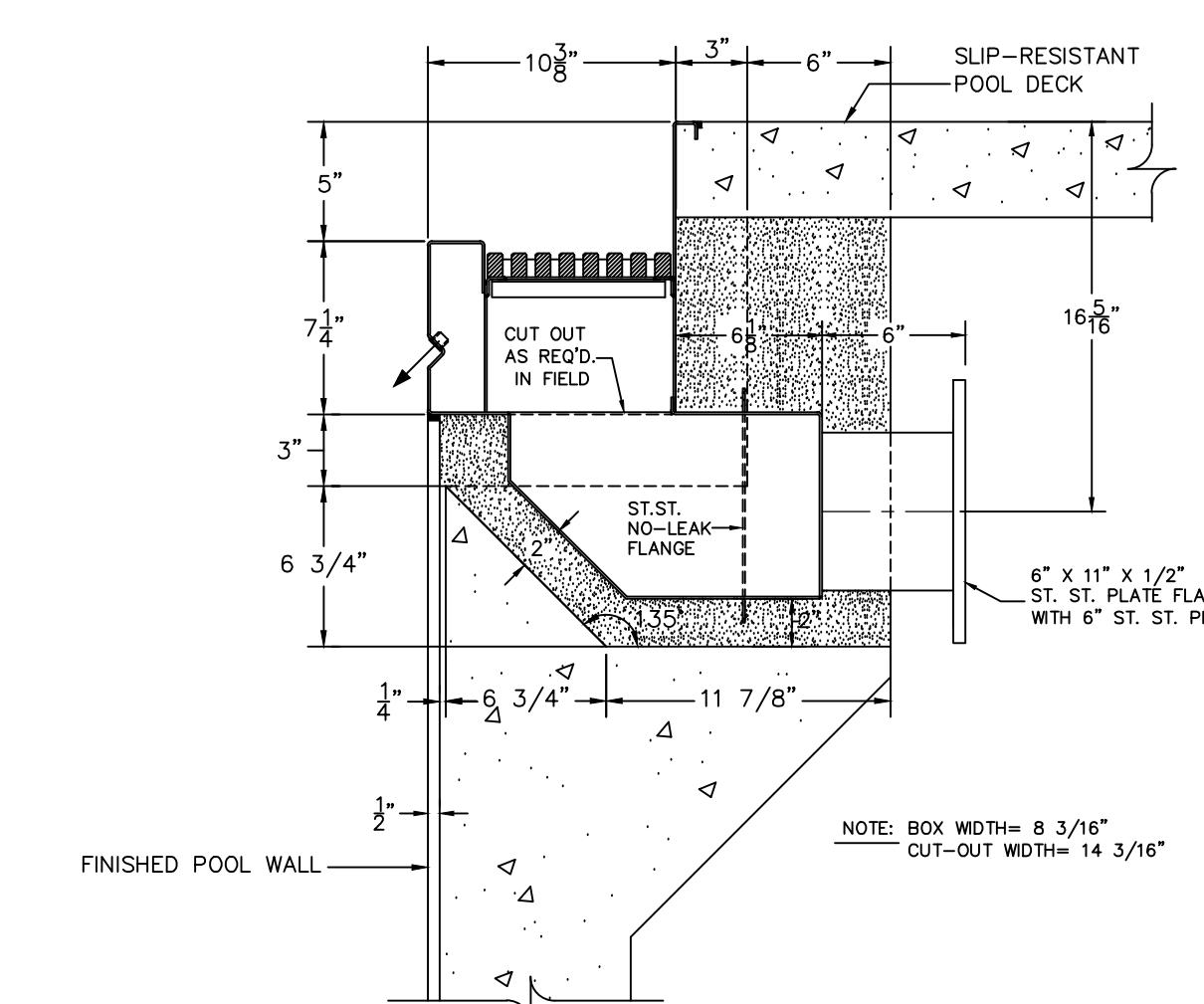
1 SCALE: 1 1/2" = 1' - 0"



7 R200 SECTION @ STEPS
1 SCALE: 3" = 1'-0"



8 R300 SURGE WEIR SECTION
1 SCALE: NONE



5 PERIMETER OVERFLOW CONVERTER SECTION
1 (2 REQUIRED) SCALE: $1\frac{1}{2}'' = 1'-0''$

	SUBMITTAL SHOP DRAWINGS FABRICATION CANNOT COMMENCE UNTIL WE RECEIVE APPROVED SHOP DRAWINGS		
SUBMITTAL DATE:			
DISPOSITION	BY	DATE	
<input type="checkbox"/> APPROVED AS SUBMITTED			
<input type="checkbox"/> APPROVED AS CORRECTED			
<input type="checkbox"/> NOT APPROVED—RESUBMIT			
<input type="checkbox"/> TYPE 304L ST.ST.			
<input type="checkbox"/> WHITE HDPE GRATES			

5 Paddock Parkway ock Hill, SC 29730 one: (803)324-1111 ax: (803)324-1116 paddockindustries.com		 PADDOCK POOL EQUIPMENT COMPANY				
NOT SCALE DRAWING TOLERANCE UNLESS OTHERWISE NOTED: $\pm 1/16$.X $\pm .020$ $\pm 1/32$.XX $\pm .010$ $\pm 1/4"$.XXX $\pm .005$		DESCRIPTION R200 POOL PLAN, POOL WALL SECTIONS, CONVERTERS & EQUIPMENT DETAILS				
		JOB NAME HIGH POINT UNIVERSITY				
	BY	DATE	LOCATION HIGH POINT, N.C.			
WN	M.J.G.	8-28-23	CUSTOMER PADDOCK CONSTRUCTION CO., INC.			
KED			SCALE (UNLESS NOTED): AS SPECIFIED		SIZE D	PART NO.
VED						
304L ST.ST.		QTY.	W.O. #	DWG. NO.		REV.
			JOB: 23003.01	23413.01Sub		0

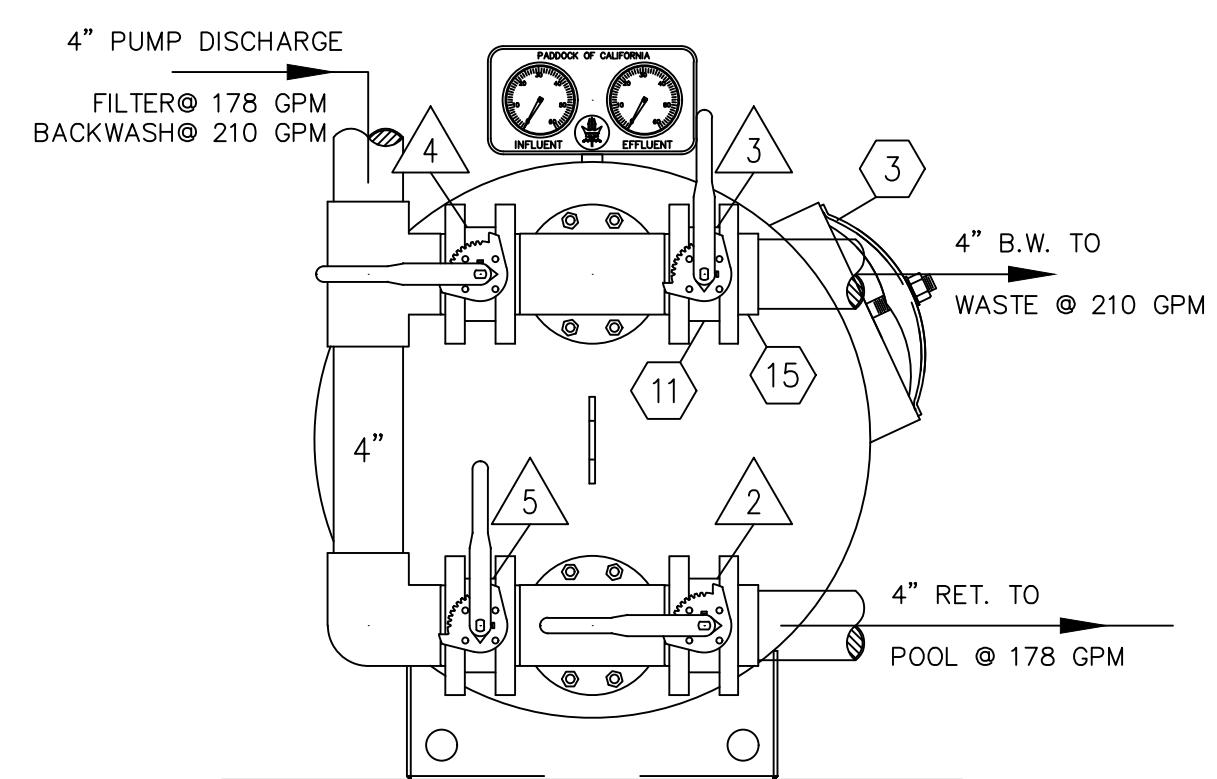
DATE	REV.	REVISION DESCRIPTION	BY

RECOMMENDED MAINTENANCE SPACE	
LENGTH	9'-0"
WIDTH	5'-0"
HEIGHT	6'-0"

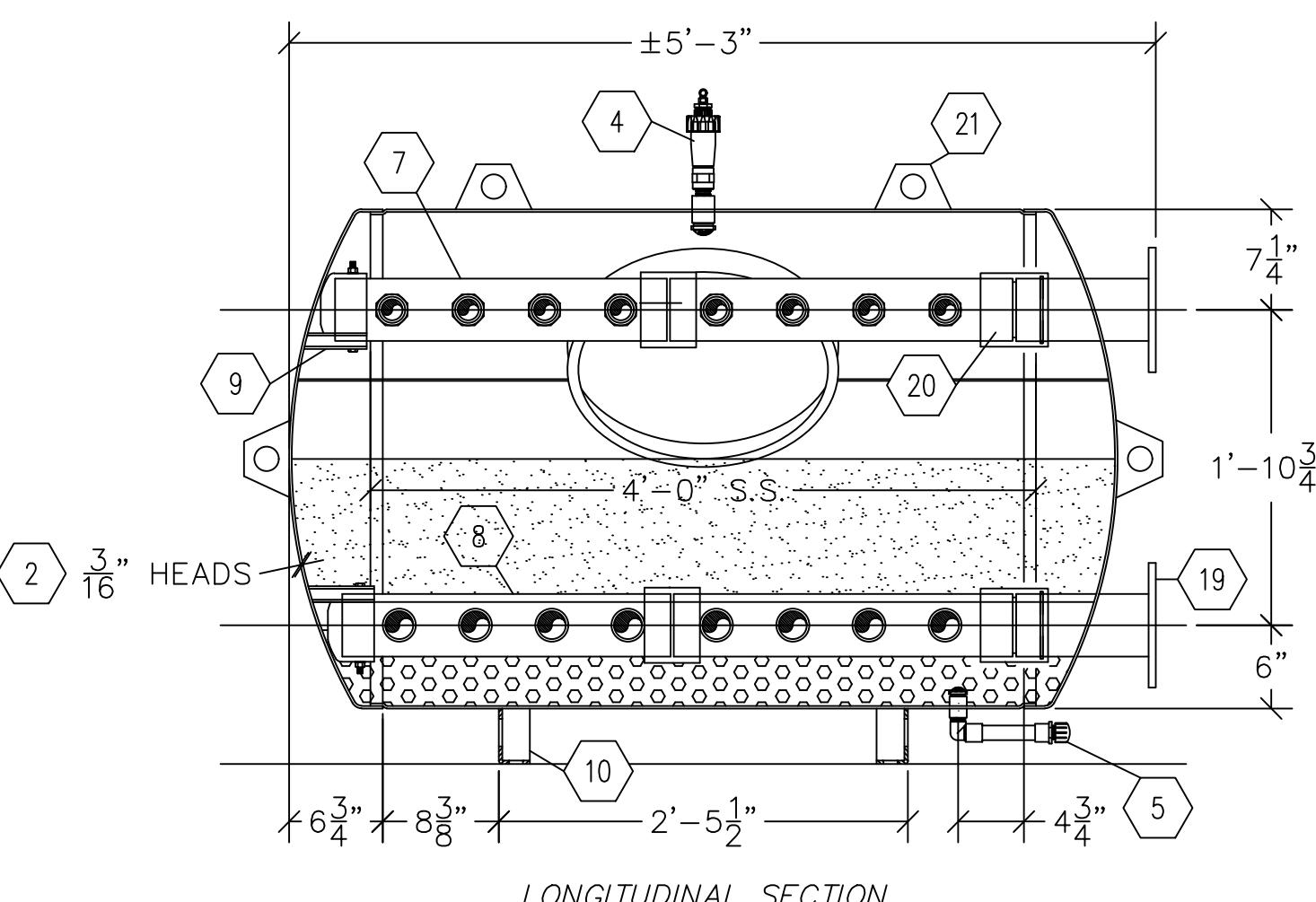
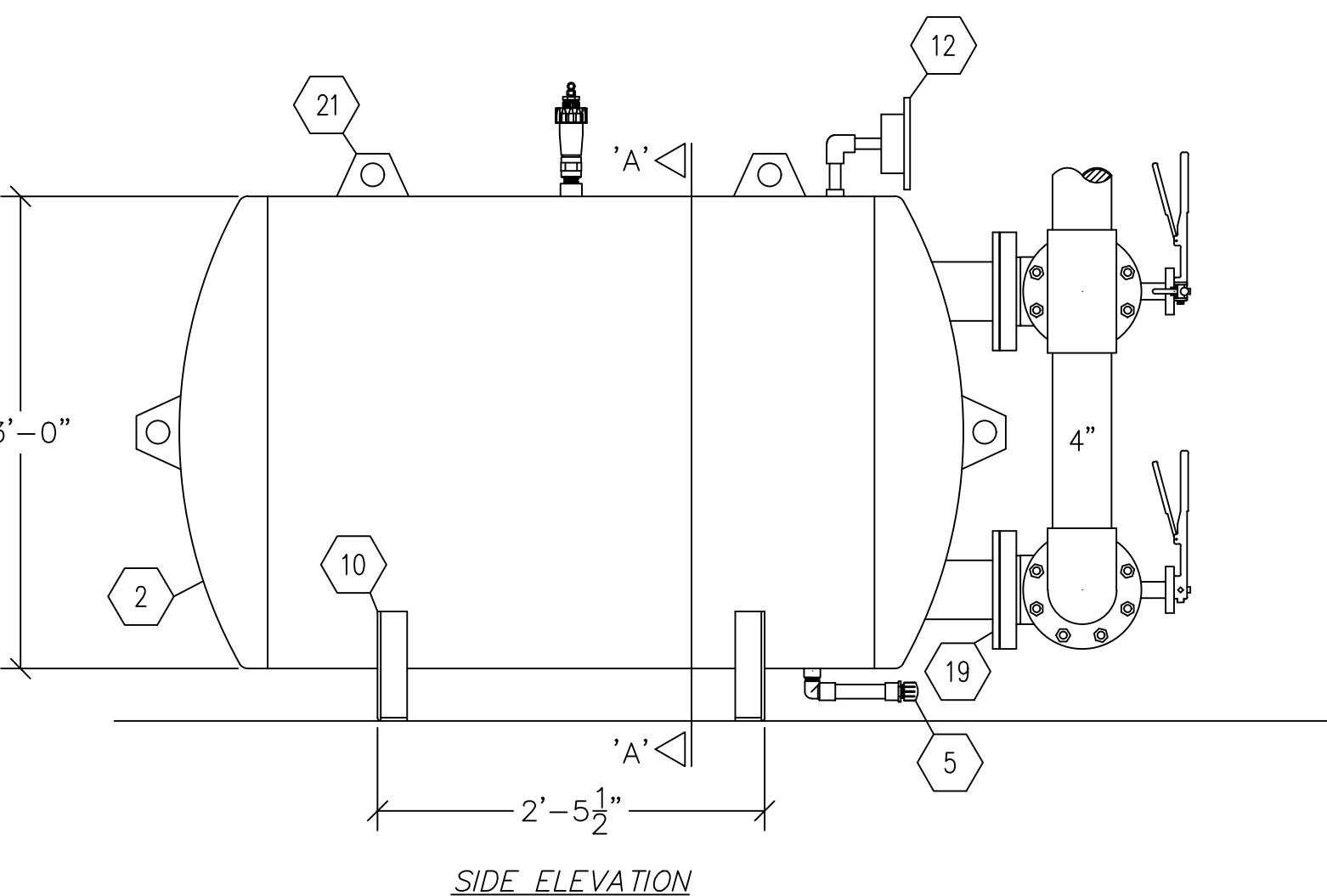
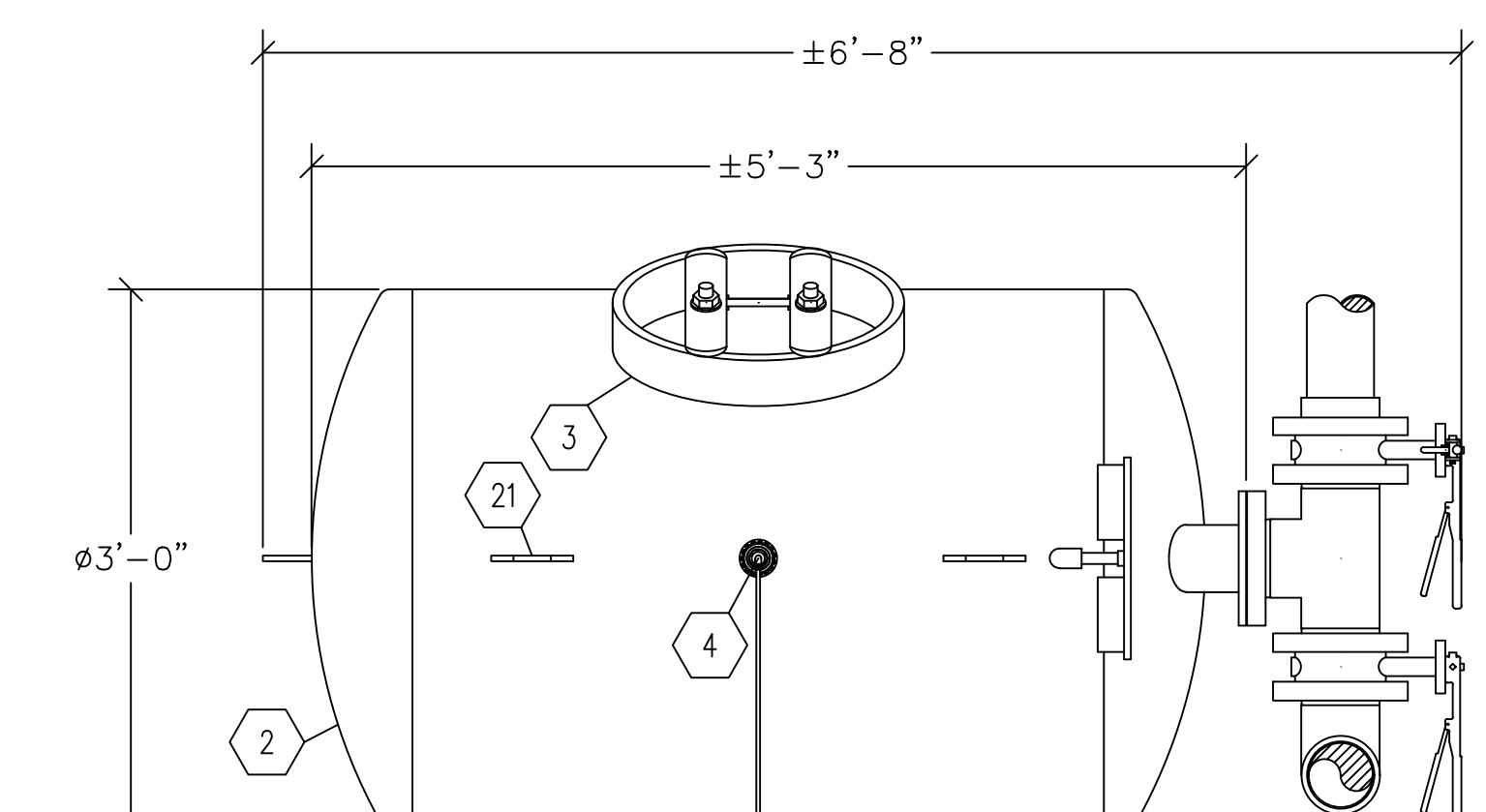
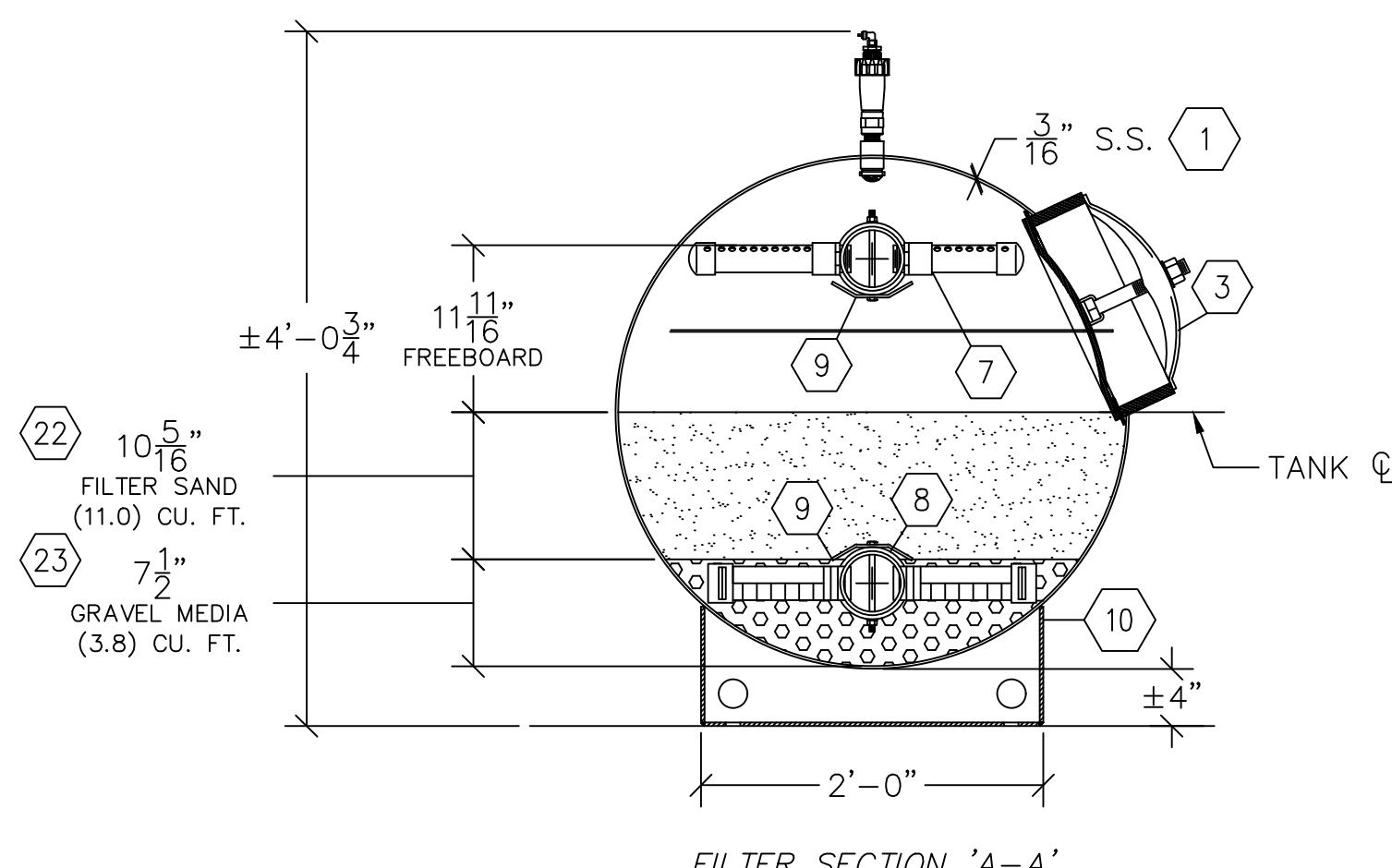
NOTE: PRESSURE VESSELS
CUSTOMER CHECK TO ENSURE THAT ALL LATERAL SLOTS ARE FACING DOWN & END LATERALS ARE PLUGGED PRIOR TO INSTALLING MEDIA.

VALVE LEGEND		
NO.	VALVE DESCRIPTION	FILTER
2	RETURN TO POOL	O X
3	BACKWASH TO WASTE	X O
4	FILTER INFLUENT	O X
5	BACKWASH INFLUENT	X O

O—OPEN, X—CLOSED



END ELEVATION
TANK SHOWN IN FILTER MODE



NO.	QTY.	DESCRIPTION
1	1	SIDESHELL, 112 1/2" X 48" X 3/16" THICK, 316L ST. ST.
2	2	HEADS, 36" O.D. X 3/16" NOM. GA. FLANGED & DISHED, DISH RADIUS: 36", O.A.H.: ±7", 316L ST. ST.
3	1	14" X 18" ST. ST. MANWAY RING W/YOKES, COVER & GASKET
4	1	3/4" PVC AIR RELEASE VALVE WITH 1/4" IPS X 1/4" COMPRESSION 90° SWIVEL ELBOW WITH 12' OF 1/4" BLACK NYLON TUBING
5	1	3/4" SCH. 40 PVC DRAIN W/90° STREET ELL & MALE ADAPTER W/THD. CAP
6	2	3/4" ST. ST. STRAINER & COUPLING
7	1	4" SCH. 80 PVC NSF LISTED OVERDRAIN HEADER ASS'Y W/1 1/2" SCH. 80 PVC LATS.
8	1	4" SCH. 80 PVC NSF LISTED UNDERDRAIN HEADER ASS'Y W/2" NORYL SLOTTED LATS.
9	2	ST. ST. HEADER SUPPORT BRACKET W/ST. ST. BOLT, LOCKWASHER, & HEXNUT
10	2	ST. ST. TANK SADDLE
11	4	WAFER VALVE, 4" BRAY SERIES 30 WITH A CAST IRON EPOXY COATED BODY, NYLON COATED DUCTILE IRON DISC, 416 ST. ST. STEM, EPDM SEAT, STUD SET & LEVER HANDLE
12	1	GAUGE PANEL W/(2) 4 1/2" DIA. PRESSURE GAUGES, TUBING, & PET COCKS
13	3	4" SCH. 80 PVC SOCKET TEE
14	8	4" SCH. 80 PVC SPIGOT FLANGE
15	2	4" SCH. 80 PVC SOCKET FLANGE
16	AR	4" SCH. 80 PVC PIPE
17	1	4" SCH. 80 PVC SOCKET 90° ELL
18	2	4" GASKET & BOLT SET
19	2	4" X 9" ST. ST. PLATE FLANGE
20	2	4" PVC COUPLING
21	4	LIFTING LUG, 3/8" ST. ST.
22	11	CU. FT. FILTER SAND (.45 TO .55 MM) UNIFORMITY COEFFICIENT NOT TO EXCEED 1.6
23	4	CU. FT. 1/16 TO 1/8 GRAVEL MEDIA
24	1	BACK WASH LINE SIGHT GLASS (NOT SHOWN, SHIP LOOSE)

CATALOG NO.	DIA.	FILTER AREA	FILTER RATE	BACKWASH RATE	TANK CONN'S	U.D. LAT'S 2"	O.D. LAT'S 1 1/2"
			@12.7 GPM/SF	@15 GPM/SF	INF. EFF.		
6723-H-1C-4	36"	14 SQ. FT.	178 GPM	210 GPM	4" 4"	16	16

GENERAL NOTES:

1. PIPING: INTERCONNECTING PIPING BY INSTALLER TO BE SCH. 80 PVC; MAXIMUM VELOCITY LESS THAN 10 FT. PER SECOND. (DASHED LINES—NOT BY P.P.E.C.)
2. THICKNESS: THICKNESS' SHOWN ARE FOR 50 PSI WORKING PRESSURE. TEST PRESSURE = 65 PSI WITH A 4 TO 1 SAFETY FACTOR
3. EXTERIOR SURFACES TO BE COATED WITH BLUE PAD-COTE, AN NSF LISTED CHEMICALLY CURED SEMI-GLOSS EPOXY.

PREPARATION: SANDBLAST TO NEAR WHITE METAL, CLEAN WELDS, REMOVE WELD SPLATTER.

APPLICATION: BY SPRAY, BRUSH, OR ROLLER TO 6–8 MILS THICKNESS (DRY). CURE FOR 7 DAYS BEFORE PUTTING FILTER INTO SERVICE.

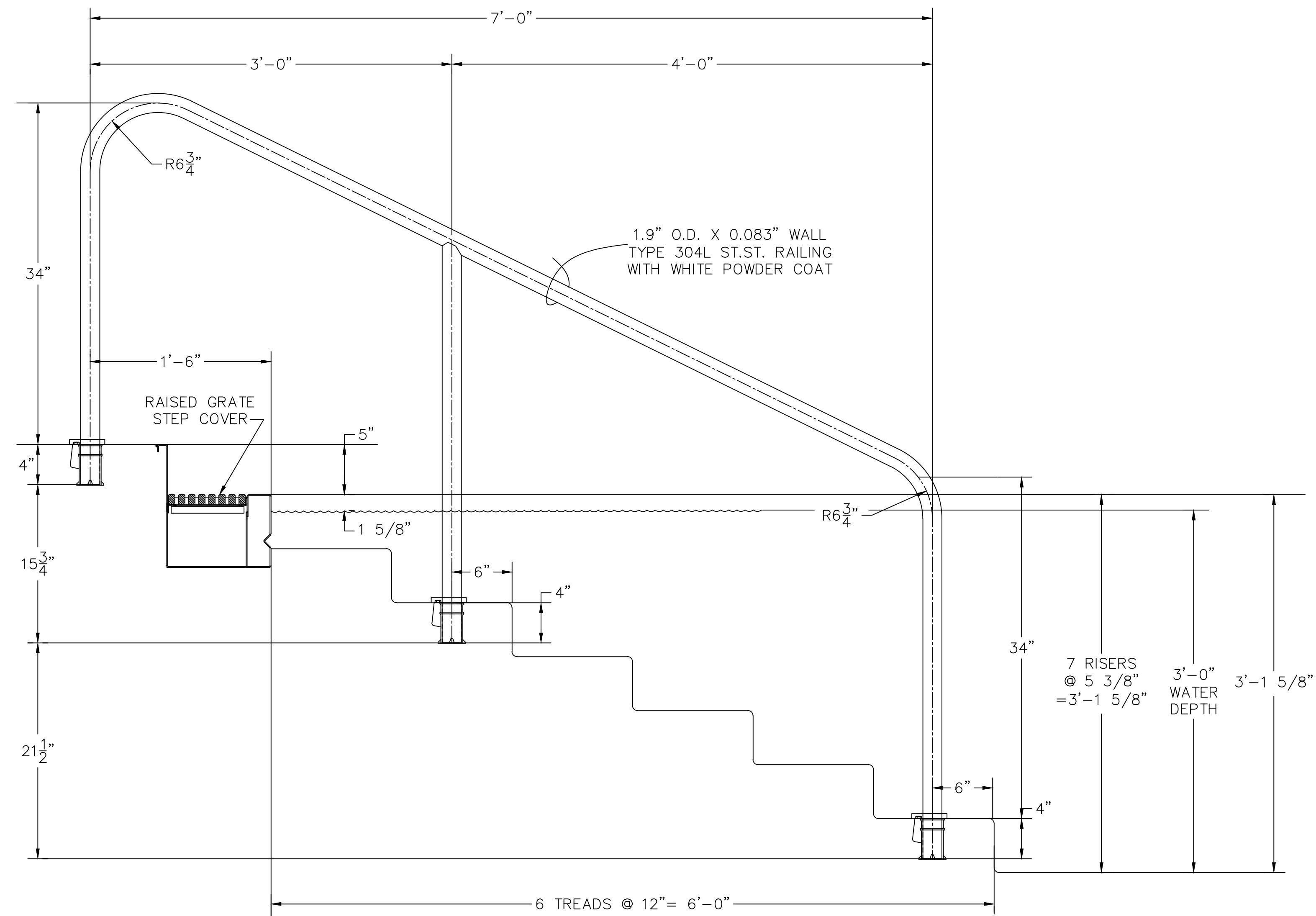
4. ALL NIPPLES AND COUPLINGS PENETRATING TANKS ARE 316L STAINLESS STEEL.
5. APPROXIMATE SHIPPING WEIGHT, (1) TANK W/INTERNAL = ±572#. APPROXIMATE OPERATING WEIGHT OF (1) FILTER = ±3,604#.
6. TANK WARRANTED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF (10) YEARS.
7. INSTALL MEDIA USING DEPTH DIMENSIONS.



Certified to
NSF/ANSI Standard 50

555 Paddock Parkway Rock Hill, SC 29730 Phone: (803)324-1111 Fax: (803)324-1116 email: info@paddockpool.com			
DESCRIPTION 36" X 48" SS HORIZONTAL SAND FILTER			
JOB NAME HIGH POINT UNIVERSITY- POOL			
LOCATION HIGH POINT, NC			
DRAWN	M.J.G	DATE	8-29-23
CHECKED			
APPROVED			
SCALE (UNLESS NOTED):		1" = 1'	SIZE D PART NO.
MATL:	QTY:	1	REV.
316L		JOB NO.	3143.03
1		DWG. NO.	23413.03 Sub. 0

REVISIONS		DATE	REV	DESCRIPTION	BY
-----------	--	------	-----	-------------	----



STAINLESS STEEL POOL HANDRAIL

SCALE: 1 1/2" = 1'-0"
(2 REQUIRED)

SUBMITTAL SHOP DRAWINGS		
FABRICATION CANNOT COMMENCE UNTIL WE RECEIVE APPROVED SHOP DRAWINGS		
SUBMITTAL DATE:		
DISPOSITION		BY
<input type="checkbox"/>	APPROVED AS SUBMITTED	
<input type="checkbox"/>	APPROVED AS CORRECTED	
<input type="checkbox"/>	NOT APPROVED-RESUBMIT	
<input type="checkbox"/>	TYPE 316L ST.ST.	

555 Paddock Parkway Rock Hill, SC 29730 Phone: (803) 324-1111 Fax: (803) 324-1116 info@paddockindustries.com		PADDOCK POOL EQUIPMENT COMPANY	
DO NOT SCALE DRAWING		DESCRIPTION: 1.90" O.D. X 0.083" WALL TYPE 304L ST.ST. TOLERANCES: .020" UNLESS NOTED X ± 1/16" X ± .020 1/X ± 1/32" X ± .010 X ± 1/4" XXX ± .005	
DRAWN M.J.G. 8-30-23		JOB NAME: HIGH POINT UNIVERSITY	
CHECKED		LOCATION: HIGH POINT, N.C.	
APPROVED		SCALE (UNLESS NOTED): AS SPECIFIED	
MATL: 304L ST.ST.	QTY: 2	W.O. # 23413.05	SIZE D PART NO.
WHITE POWDER COAT		REV. 0	DWG. NO.

Paddock Pool Equipment Company

Gutter Flow Calculations

Project

High Point U- Spa- R200

Total Recirculation Rate, gpm

145

Pool Perimeter, feet

49.69

Average Gutter Width, inches

7.7755844

Usable Gutter Depth, inches

4.8125

Number of 90-degree corners

0

Number of 45-degree corners

0

Number of radiused corners

4

Number of PO Converters

1

Number of Return Converters

1

Supply tube area, square inches

15.61

Number of inlet nozzles

18

Max. tube pressure allowed, psi

7.5

Density of Fluid, lb_m/ft³

62.217 (Water at 80°F)

Local Gravity, ft/sec²

32.17

Absolute Viscosity (μ), lb_fsec/ft²

1.791E-05 (Water at 80°F)

Click on **Tools > Solver**, then press **Enter** twice

Total gutter system flow capacity is

871.80 gpm

Gutter collection rate is

78.95 gpm

Design for surge weirs is:

Adequate

Design for rimflow conditions is:

Superior

Flow rate per nozzle

8.06 gpm

Nozzle Size

7

Nozzle Velocity

17.19 ft/sec

Supply Tube Velocity

1.49 ft/sec

Supply Tube Pressure

7.19 psi

Surge Capacity in Flow Channel

90.03 gallons

Navier-Stokes Continuity Equation:

$$\left[1 - \left(\frac{\rho}{m} \right)^2 W^5 g \eta^3 \right] \partial \eta = \frac{f}{8} \partial \left(\frac{x}{W} \right)$$

Solving this equation for turbulent flow conditions with m as the unknown variable yields

$$D_1 m^2 + D_2 \sqrt[4]{m^7} + D_3 = 0$$

where ρ = density of the fluid, lb_m/ft²

m = mass flow rate, lb_m/sec

g = acceleration due to local gravity, ft/sec²

L = length of channel, ft

W = width of channel, ft

η = fluid height to width ratio

f = Darcy friction factor, $\frac{0.316}{\sqrt{R_e}}$

x = distance along centerline of channel

μ = absolute viscosity, lb_fsec/ft²

y = depth of fluid, ft

R_e = Reynold's Number, $\frac{4m}{\mu(2y+W)}$

Francis Weir Formula:

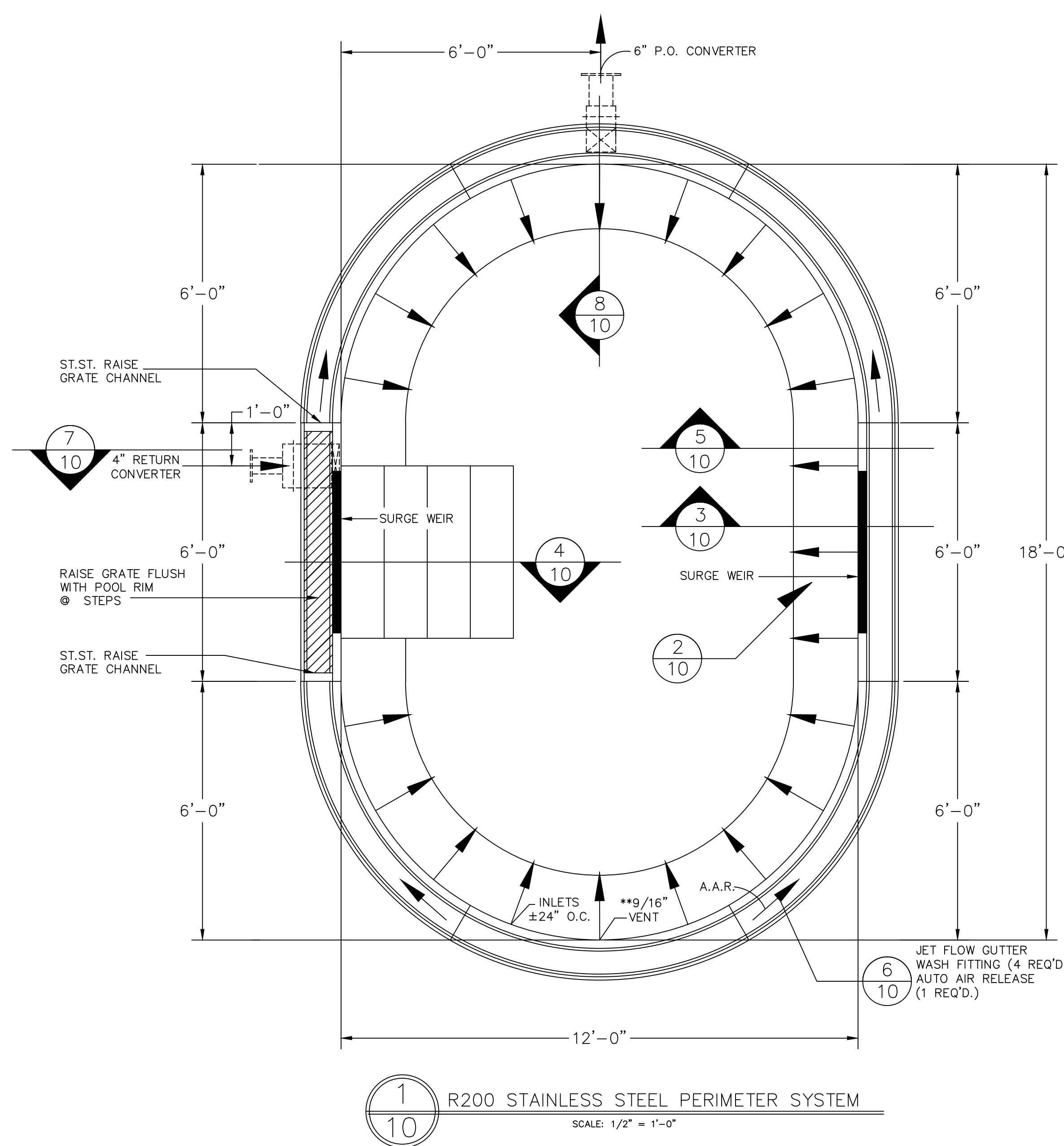
$$Q = 3.33 L \sqrt{H^3}$$

where

Q = flow rate, ft³/sec

L = length of weir, ft

H = height of water above crest of weir, ft

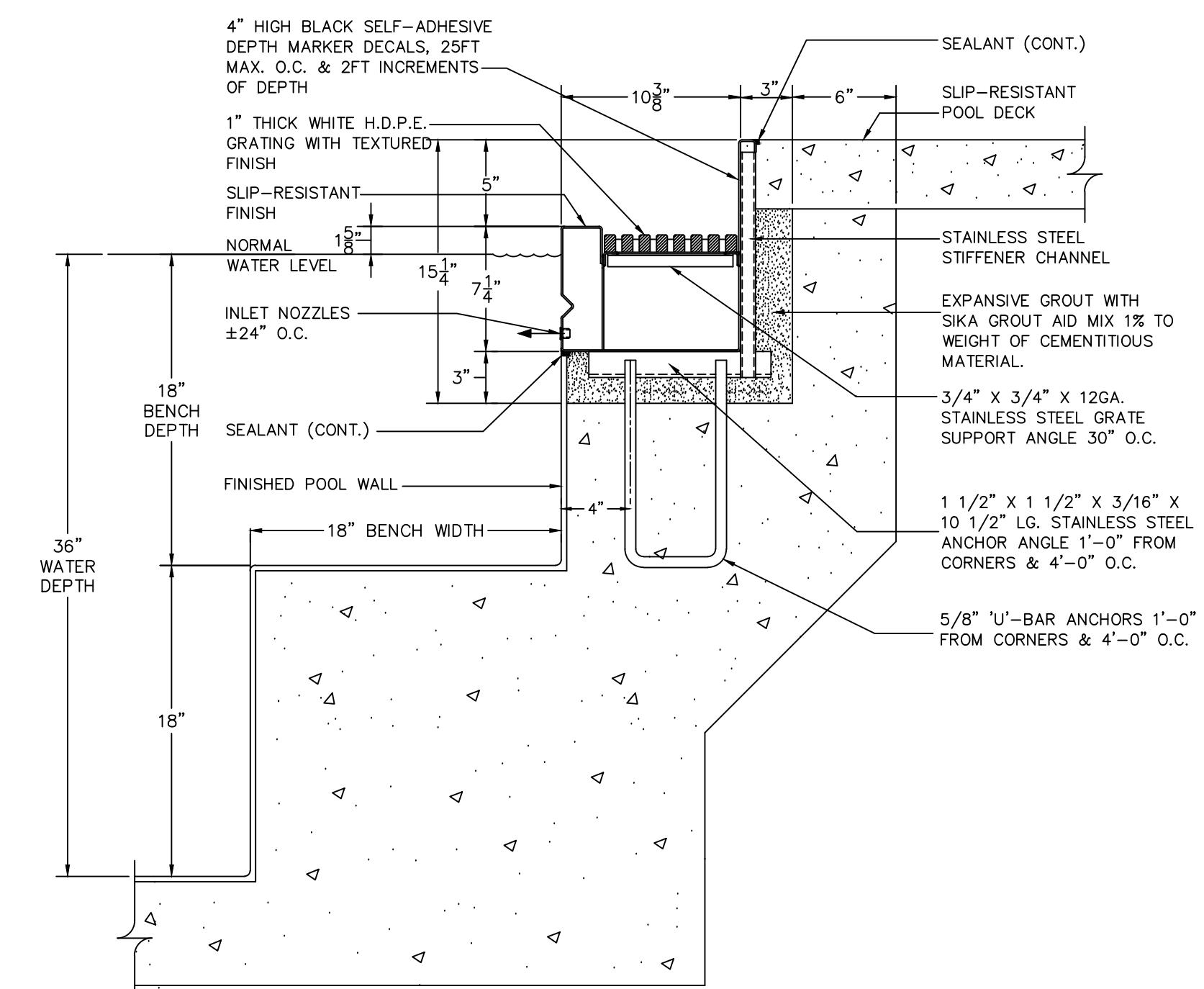
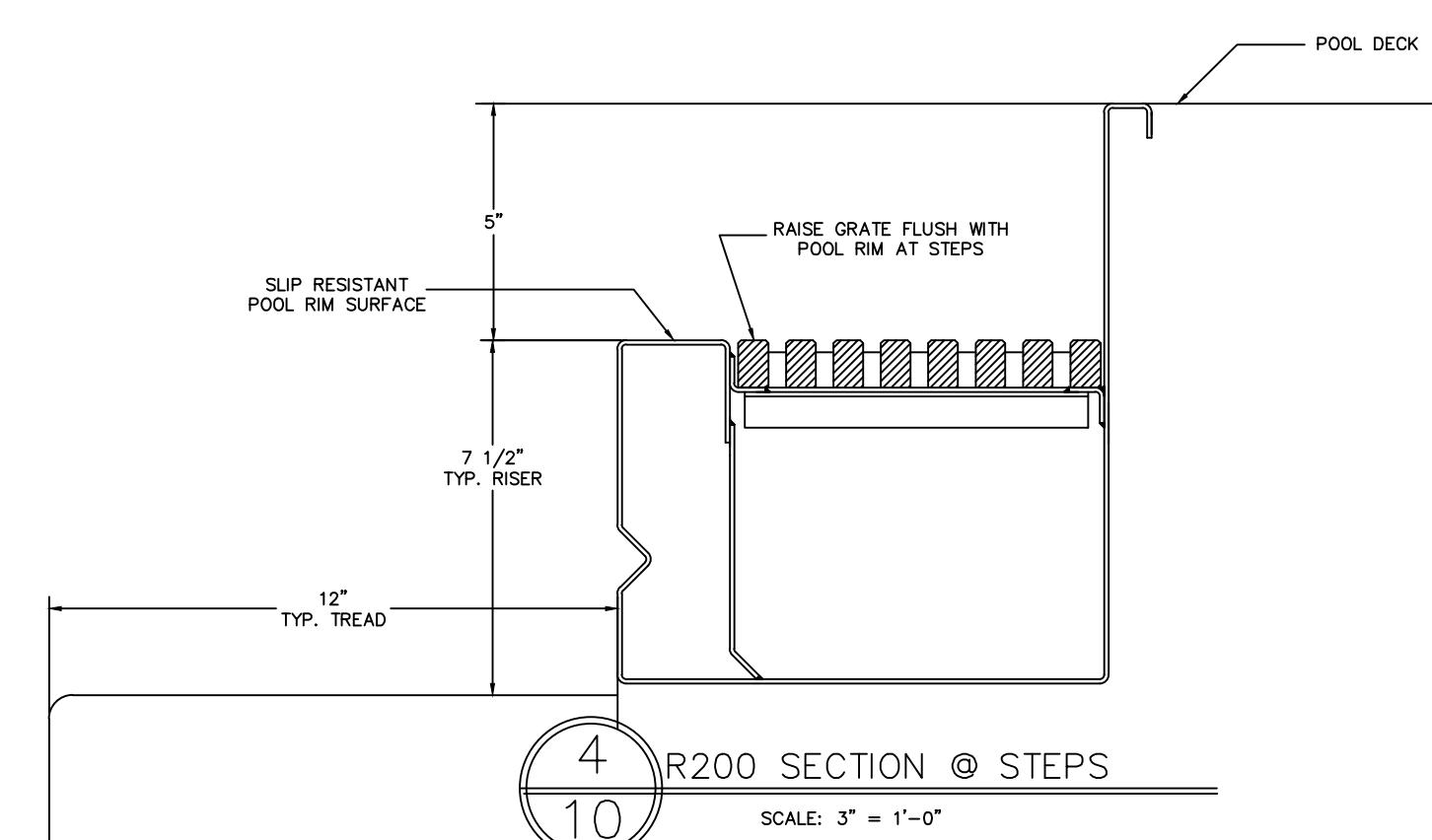
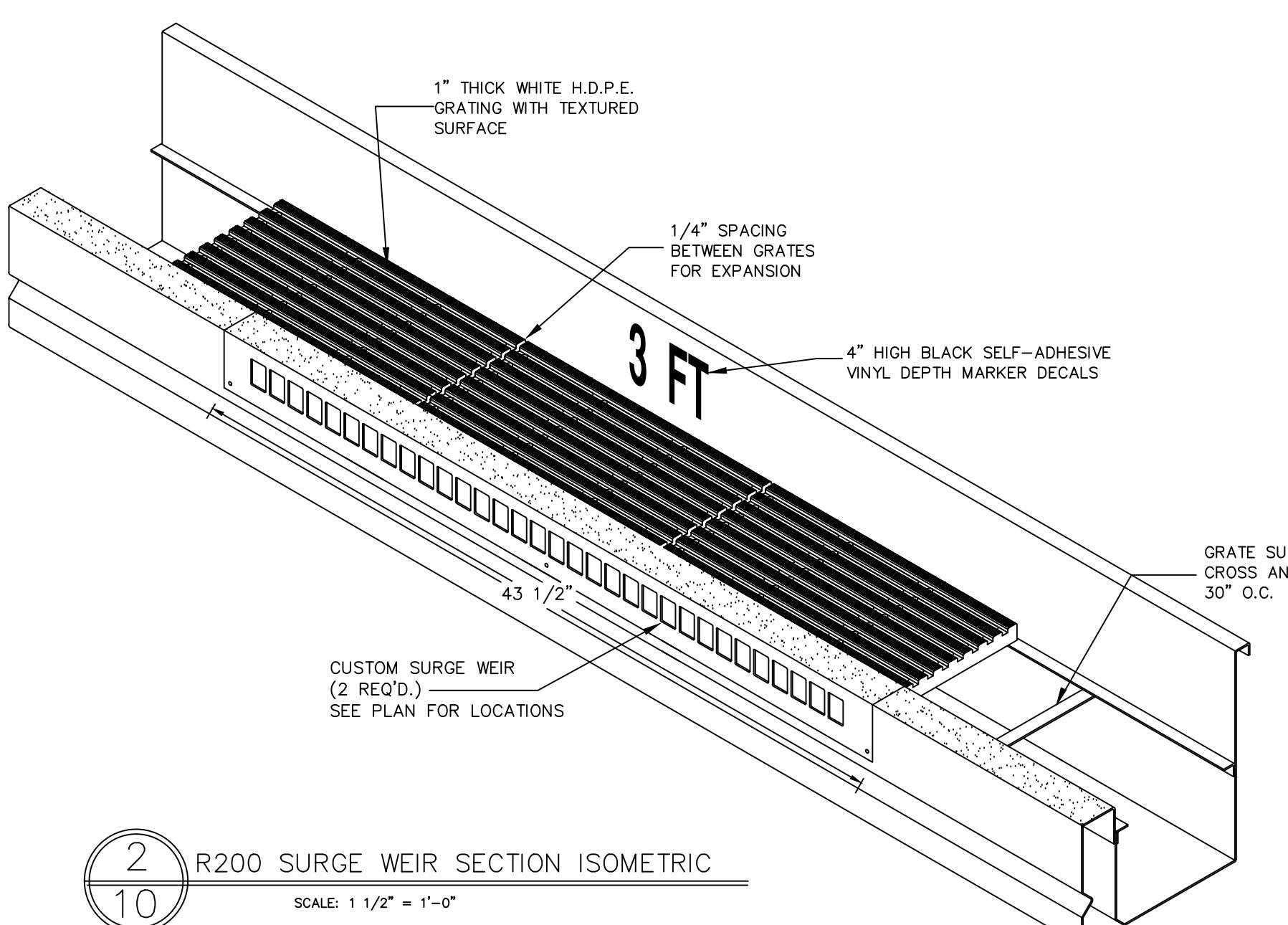


SPA DATA R200	
SPA PERIMETER	49'-8 3/8"
SPA AREA	185 SF
RECIRCULATION RATE	145 GPM
GUTTER SYSTEM FLOW CAPACITY	871.80 GPM
FLOW CHANNEL SURGE CAPACITY	90.03 GALS

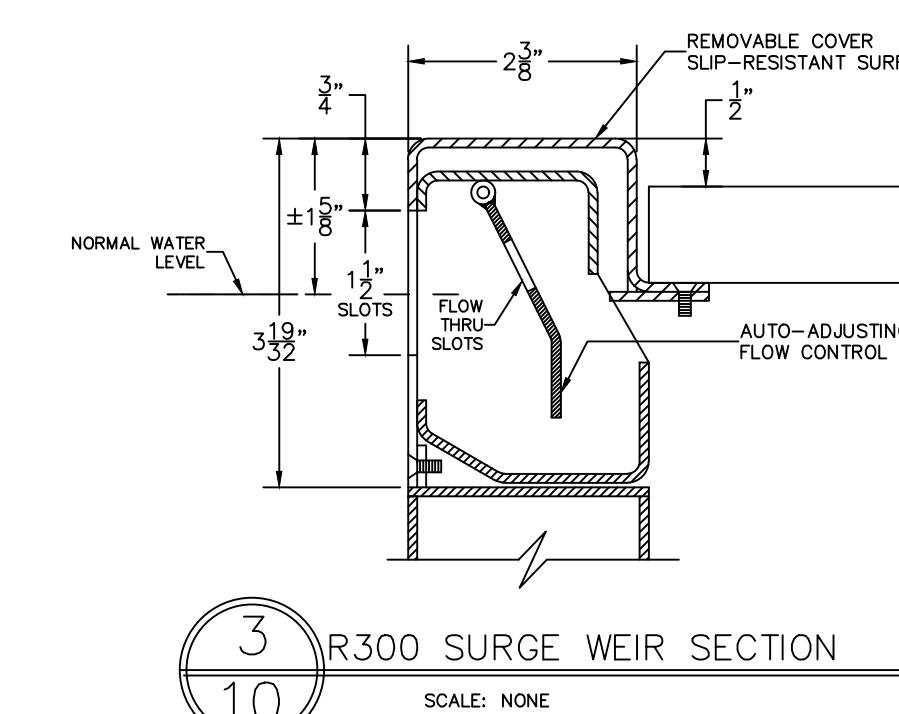
NOTE: (21) 7/16" I.D. NOZZLES;
±24" O.C. @ 6.90 GPM EA.
FOR A TOTAL FLOW OF 145 GPM

DEPTH MARKER SCHEDULE (BLACK VINYL DECALS ON GUTTER)	
QTY	DEPTH
4	3 FT

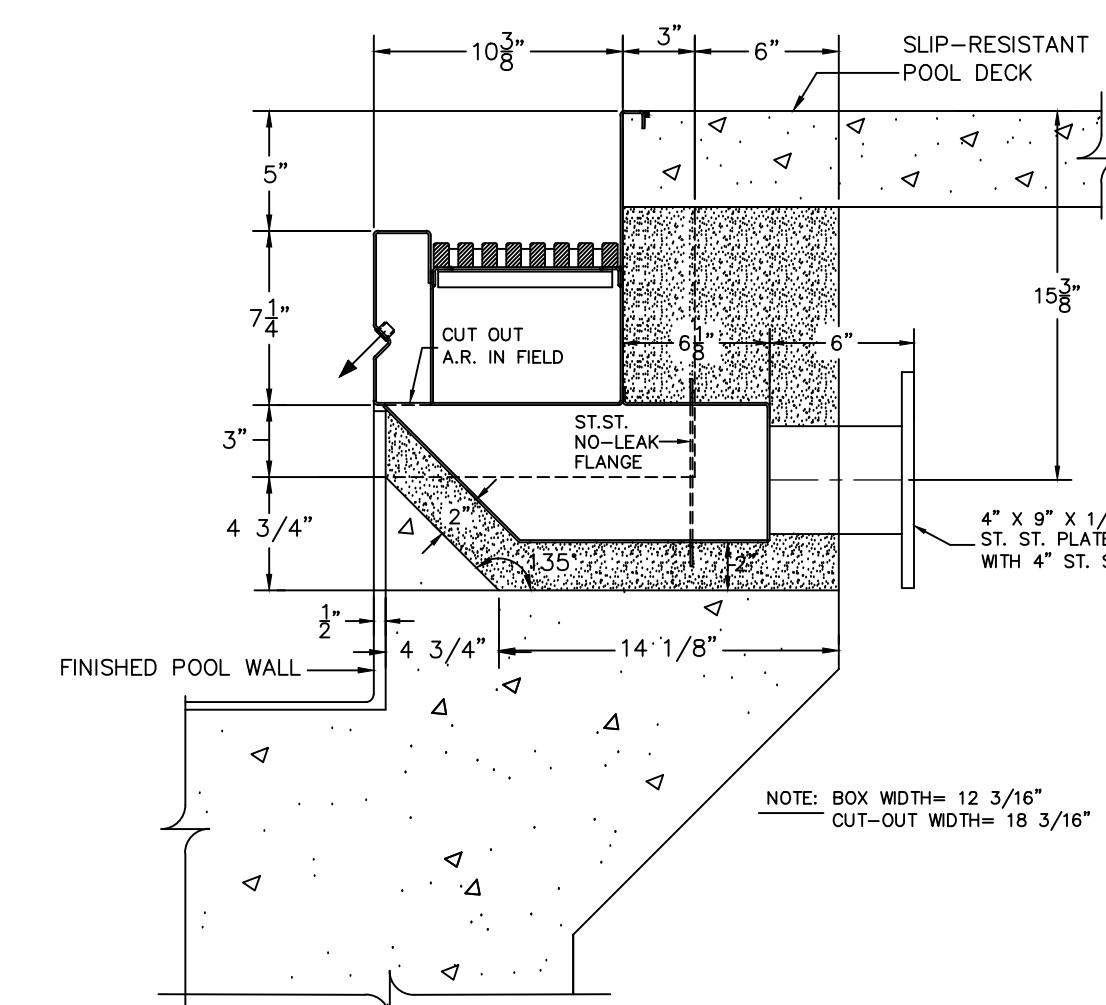
*NOTE: SHOP DRILL 35/64" RET. TUBE VENT HOLE. LEAVE UNPLUGGED FOR AT LEAST TWO WEEKS TO ALLOW DEBRIS TO EXIT THE TUBE THEN PLUG WITH 9/16" DIA. PLUG.



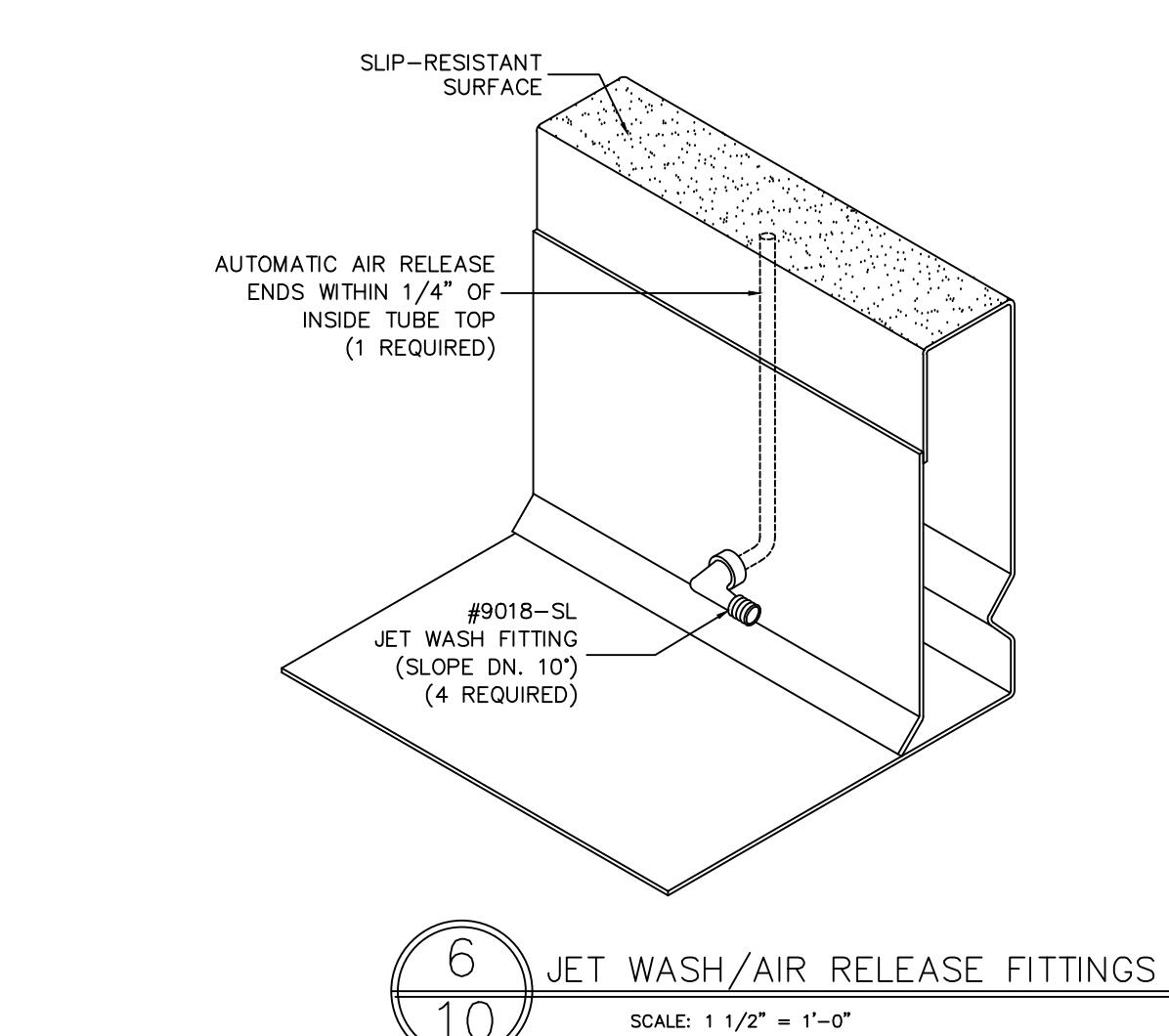
5
10 TYPICAL SPA WALL SECTION
TYPE 304L LOW CARBON STAINLESS STEEL R200 GUTTER SYSTEM
SCALE: 1 1/2" = 1'-0"



3
10 R300 SURGE WEIR SECTION
SCALE: NONE



7
10 RETURN CONVERTER SECTION
(1 REQUIRED)
SCALE: 1 1/2" = 1'-0"

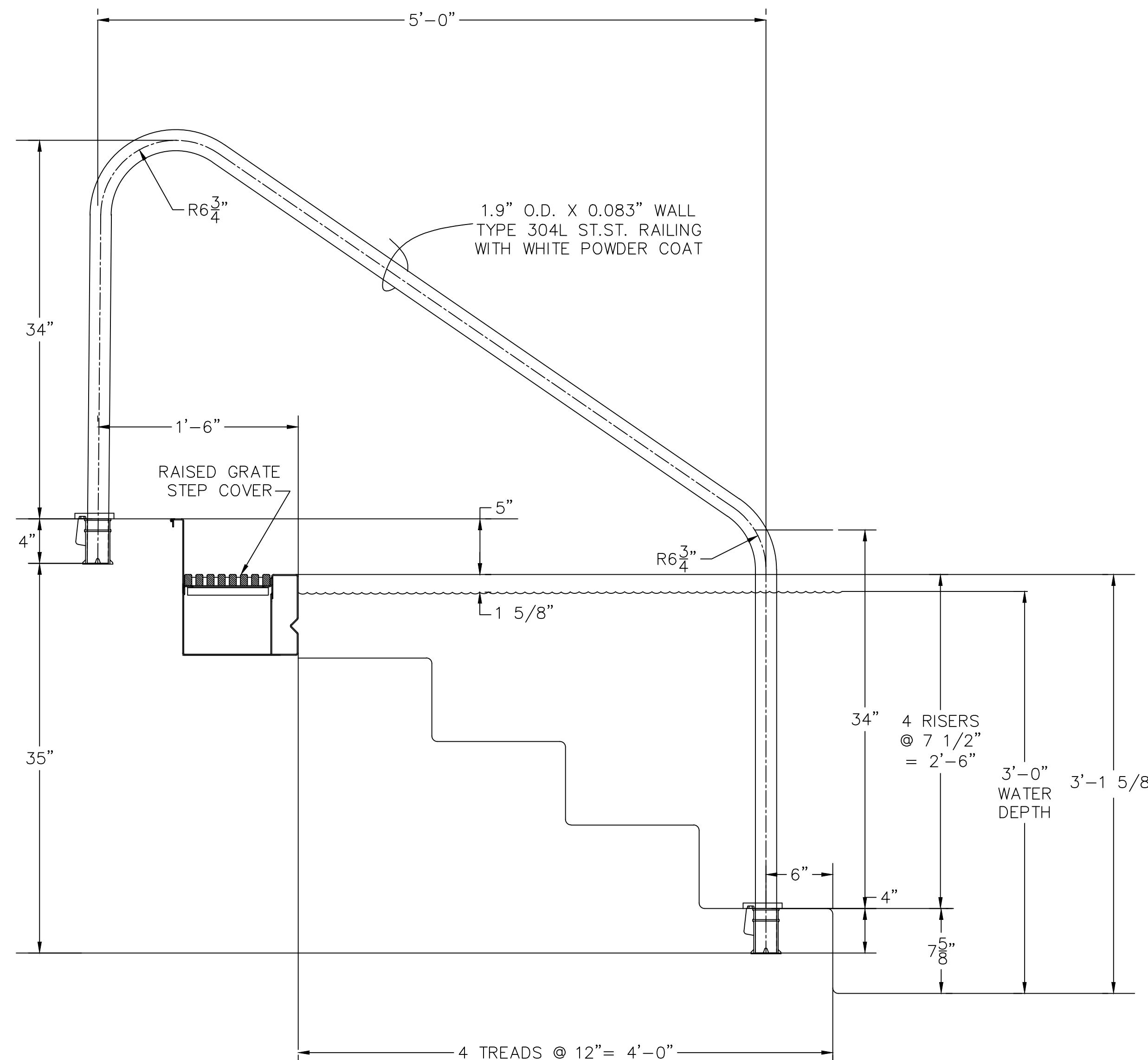


8
10 PERIMETER OVERFLOW CONVERTER SECTION
(1 REQUIRED)
SCALE: 1 1/2" = 1'-0"

	SUBMITTAL SHOP DRAWINGS FABRICATION CANNOT COMMENCE UNTIL WE RECEIVE APPROVED SHOP DRAWINGS		
SUBMITTAL DATE:			
DISPOSITION		BY	DATE
<input type="checkbox"/> APPROVED AS SUBMITTED			
<input type="checkbox"/> APPROVED AS CORRECTED			
<input type="checkbox"/> NOT APPROVED-RESUBMIT			
<input type="checkbox"/> TYPE 304L ST.ST.			
<input type="checkbox"/> WHITE HDPE GRATES			

555 Paddock Parkway Rock Hill, SC 29731 Phone: (803) 324-1111 Fax: (803) 324-1116 info@paddockindustries.com	DESCRIPTION R200 SPA PLAN, POOL WALL SECTIONS, CONVERTERS & EQUIPMENT DETAILS
DO NOT SCALE DRAWING TOLERANCES AND DIMENSIONS IN INCHES $x \pm 1/16$ $x \pm 1/32$ $x \pm 1/4$ $x \pm .005$	JOB NAME HIGH POINT UNIVERSITY
DRAWN M.J.G. 8-30-23	LOCATION HIGH POINT, N.C.
CHECKED	APPROVED
SCALE (UNLESS NOTED)	AS SPECIFIED
SIZE D	PART NO.
304L ST.ST.	W.O. #
QTY. 1	REV. 0
DWG. NO. 23413.10Sub 0	

REVISIONS		DATE		REV		DESCRIPTION		BY	
-----------	--	------	--	-----	--	-------------	--	----	--



STAINLESS STEEL SPA HANDRAIL

SCALE: 1 1/2" = 1'-0"
(2 REQUIRED)

SUBMITTAL SHOP DRAWINGS		
FABRICATION CANNOT COMMENCE UNTIL WE RECEIVE APPROVED SHOP DRAWINGS		
SUBMITTAL DATE:		
DISPOSITION		BY
<input type="checkbox"/>	APPROVED AS SUBMITTED	
<input type="checkbox"/>	APPROVED AS CORRECTED	
<input type="checkbox"/>	NOT APPROVED-RESUBMIT	
<input type="checkbox"/>	TYPE 316L ST.ST.	

555 Paddock Parkway Rock Hill, SC 29730 Phone: (803) 324-1111 Fax: (803) 324-1116 info@paddockindustries.com		DESCRIPTION 1.90" O.D. X 0.083" WALL TYPE 316L STAINLESS STEEL 5'-0" LG. SPA RAIL	
DO NOT SCALE DRAWING		TOLERANCES UNLESS OTHERWISE NOTED	
X ± 1/8" X ± .020		X ± 1/2" X ± .010	
1/X ± 1/32" XXX ± .005		JOB NAME HIGH POINT UNIVERSITY	
DRAWN	M.J.G.	DATE	LOCATION
CHECKED			HIGH POINT, N.C.
APPROVED		SCALE (UNLESS NOTED)	SIZE D PART NO.
MATERIAL: 304L ST.ST. WHITE POWDER COAT	QTY. 2	W.O. # 23413.12 REV. 0	DWG. NO. 23413.12



Paddock Pool Equipment Company, Inc.
555 Paddock Parkway
Rock Hill, SC 29730
United States of America

Ph: 803-324-1111

Submittal

Number: SO23413 Date: 24-Jul-23

To:

Joe Sandy
Paddock Construction Company, Inc.
1120 E. White St.
Rock Hill SC 29730
United States

Danny Lafrancois

EMAIL: dlafrancois@paddockpool.com

PHONE #: [REDACTED]

Project Name: High Point University Pool House

Project Manager:

Trevor Ottley

ottley@paddockindustries.com

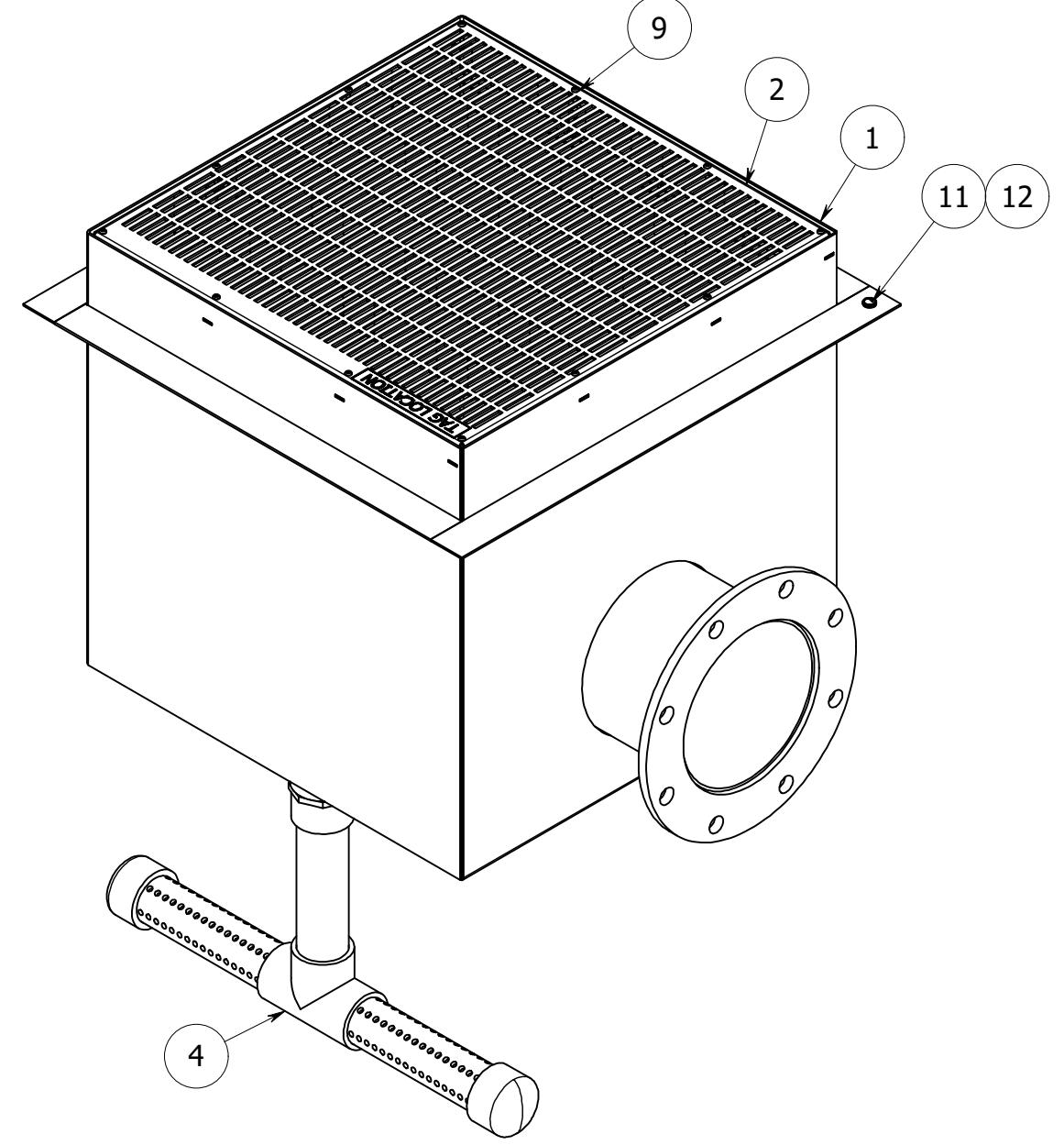
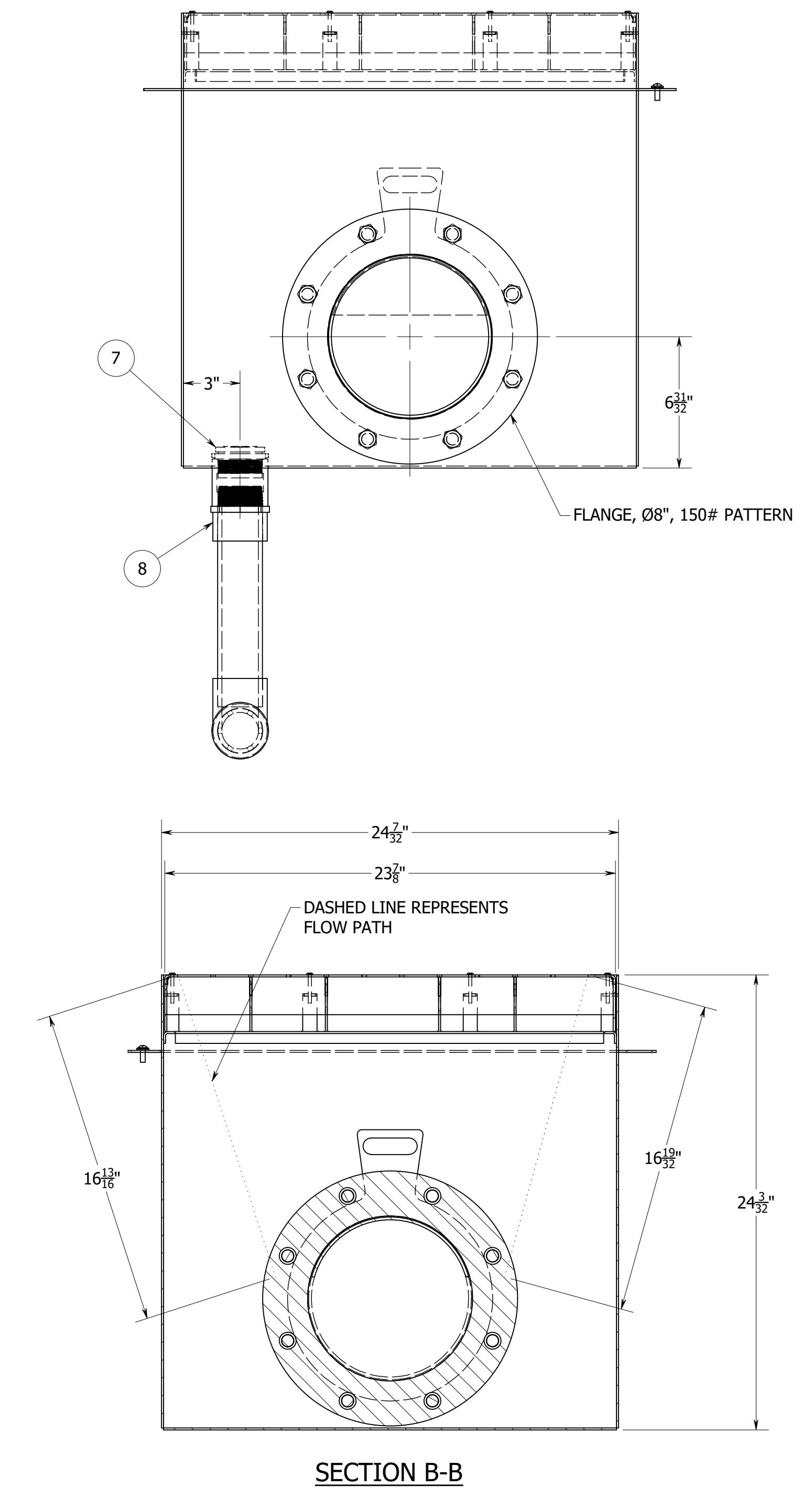
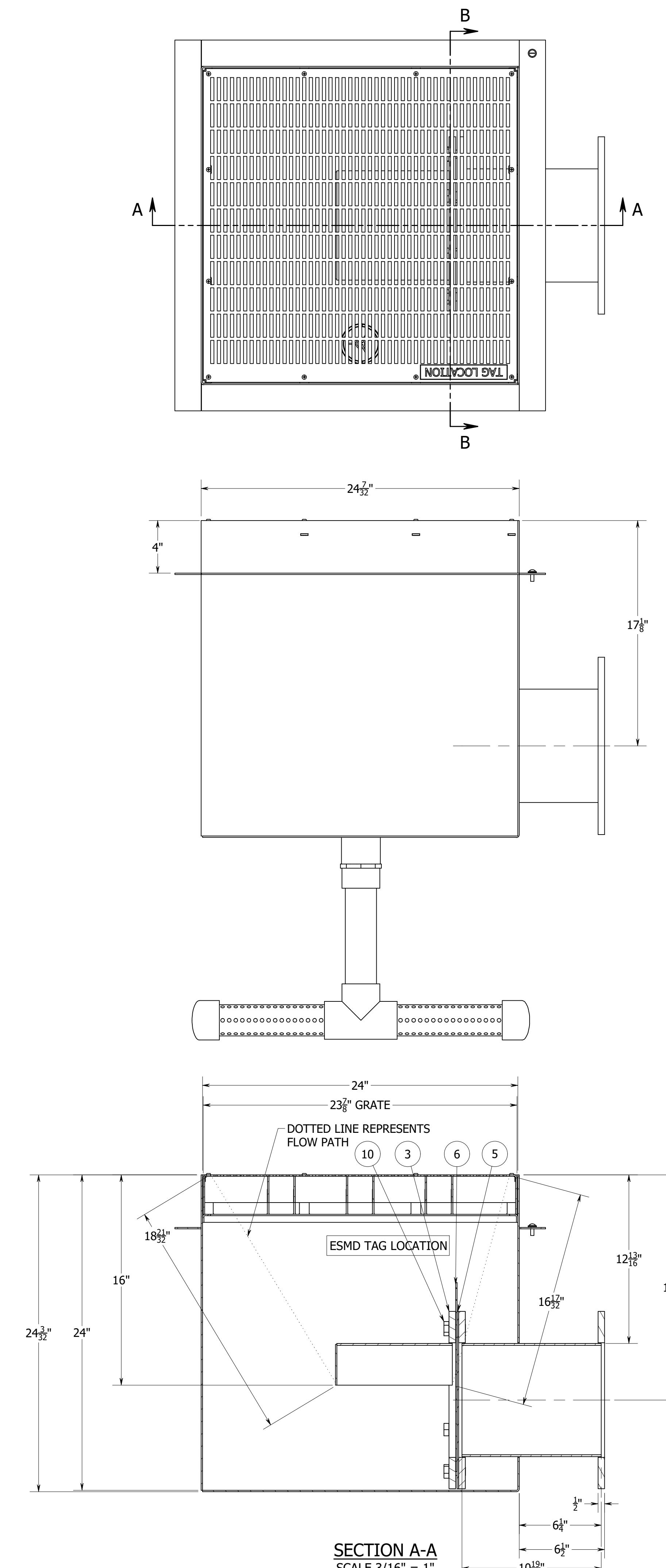
PHONE #:

803-372-6088

Qty	Description	Drawing	Approval
2	<p>Pool</p> <p>MD-304-2424FC-2424-8/1 MainDrain,304L,2424FlatCover,24X24Sump,8"Conn</p>	Cut Sheet	
2	<p>Spa</p> <p>MD-304-2424FC-2424-8/1 MainDrain,304L,2424FlatCover,24X24Sump,8"Conn</p>	Cut Sheet	

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ESMD-2424-8-1	WELDMENT, 24" X 24" ESM, (1) 8" CONNECTION
2	1	FC-2424	WELDMENT, 24" X 24" FLAT MD COVER
3	1	AVRD-08	WELDMENT, 8" AVRD FOR 24" X 24"
4	1	HSRL-01	SHOP ASSEMBLY, HYDROSTATIC RELIEF FOR MAIN DRAIN BOXES
5	1	P2104-080x02.11-R0	GASKET, Ø8", 150# PATTERN, PL 1/8" x Ø13 1/2"
6	1	BP08-304	BLANKING PLATE, PL12GA x 14 3/8" x 10 7/8"
7	1	SP1056	CYC HYDRO RELIEF VALVE, 1.5IN/2IN - ABS WHITE
8	1	ADPTR-0200MPTx0200SOC.08-R0	2" MALE ADAPTER SOCKET
9	12	PHMP-#08Cx0108-316	PAN HEAD PHILLIPS SCREW, TORQUE RATING 19.8 INCH LBS, #8-32 X 1 1/2"
10	8	HHMB-063Cx0104-316	HEX HEAD BOLT, 5/8"-11 X 1 1/4"
11	1	RHMSL-025Cx0012-BR	ROUND HEAD SLOT MACHINE SCREW, 1/4"-20 X 3/4"
12	2	FW-025-BR	FLAT WASHER, Ø1/4"

QTY: 2 for Pool
QTY: 2 for Spa



PART NUMBER: 9300006

0	02/28/22	PTT	ORIGINAL ISSUE
REV	DATE	BY	DESCRIPTION
REVISION HISTORY			
DO NOT SCALE DRAWING			
X ± 1/16"	X ± 0.020"		TOLERANCE UNLESS OTHERWISE NOTED:
1/X ± 1/32"	XX ± 0.010"		X ± 1/16" X ± 0.020"
X ± 1/4"	XXX ± 0.005"		1/X ± 1/32" XX ± 0.010"
BY	DATE		X ± 1/4" XXX ± 0.005"
DRAWN PTT	02/25/22		CONN.
CHECKED			SPEC. NO.:
APPROVED			DWG. NO.:
			MD-304-2424FC-2424-8-1
			SHEET # 1 OF 1



Paddock Pool Equipment Company, Inc.
555 Paddock Parkway
Rock Hill, SC 29730
United States of America

Ph: 803-324-1111

Submittal

Number: SO23413 Date: **24-Jul-23**

To:

Joe Sandy
Paddock Construction Company, Inc.
1120 E. White St.
Rock Hill SC 29730
United States

Danny Lafrancois

EMAIL: dlafrancois@paddockpool.com

PHONE #:

Project Name: **High Point University Pool House**

Project Manager: Trevor Ottley
ottley@paddockindustries.com
PHONE #: 803-372-6088

Qty	Description	Drawing	Approval
	Pool		
1	HZ1-316-36-14 Filter,HZ,316,36"Dia,14sf Filter,HZ,316,36"Dia,14sf - Gauges, Media, 2 Tees, 4 Manual Control Valves with Linkage, Air Relief	Cut Sheet	
1	200177 Sight,Glass,1-1/2",Bronze	Cut Sheet	
2	LDR-304-3T-1.9-.083 Ladder,3-Tread,304L,1.9X .083 - Pool - Add Powder Coating	Cut Sheet	
10	200153 Anchor, Deck,Wedge,1.90"Dia	Cut Sheet	
10	200058 Escutcheon,SS,1.90" Add Powder Coating	Cut Sheet	
1	Miscellaneous Miscellaneous F-MTY400 Handicap Lift with Battery, Cover, Charger, Caddy Cart, Anchor	Cut Sheet	



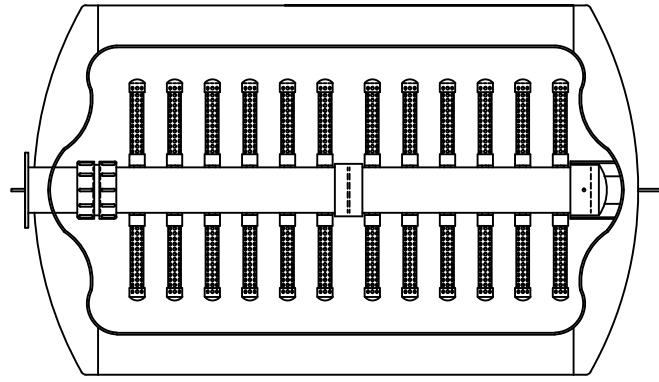
Paddock Pool Equipment Company, Inc.
555 Paddock Parkway
Rock Hill, SC 29730
United States of America

Spa			
4	200153 Anchor, Deck,Wedge,1.90"Dia	Cut Sheet	
4	200058 Escutcheon,SS,1.90" add Powder Coating	Cut Sheet	
1	200177 Sight,Glass,1-1/2",Bronze	Cut Sheet	
1	Miscellaneous Miscellaneous F-MTY400 Handicap Lift with Battery, Cover, Charger, Caddy Cart, Anchor	Cut Sheet	

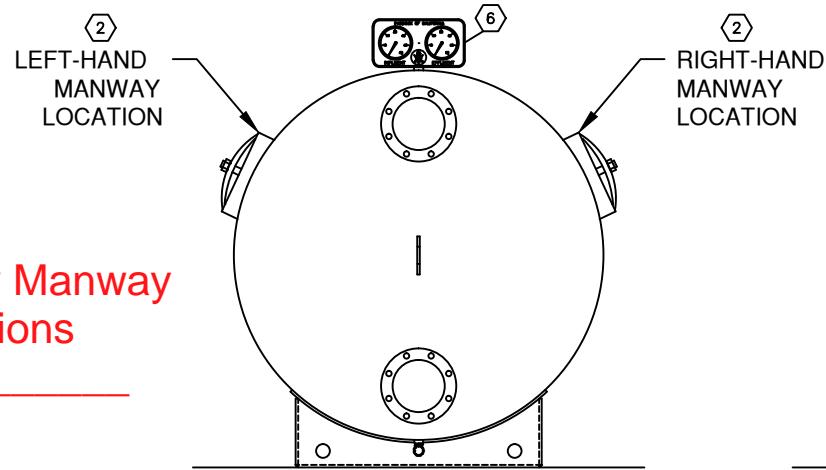
ITEM	DESCRIPTION
1	TANK
2	14" X 18" MANWAY ASSEMBLY (ONE PROVIDED, SPECIFY LOCATION)
3	AIR RELEASE VALVE
4	OVERDRAIN HEADER W/ LATERALS
5	UNDERDRAIN HEADER W/ LATERALS
6	#5840 GAUGE PANEL
7	FILTER SAND (.45 TO .55mm) UNIFORMITY COEFFICIENT NOT TO EXCEED 1.60
8	1/16 TO 1/8 GRAVEL MEDIA

GENERAL NOTES:

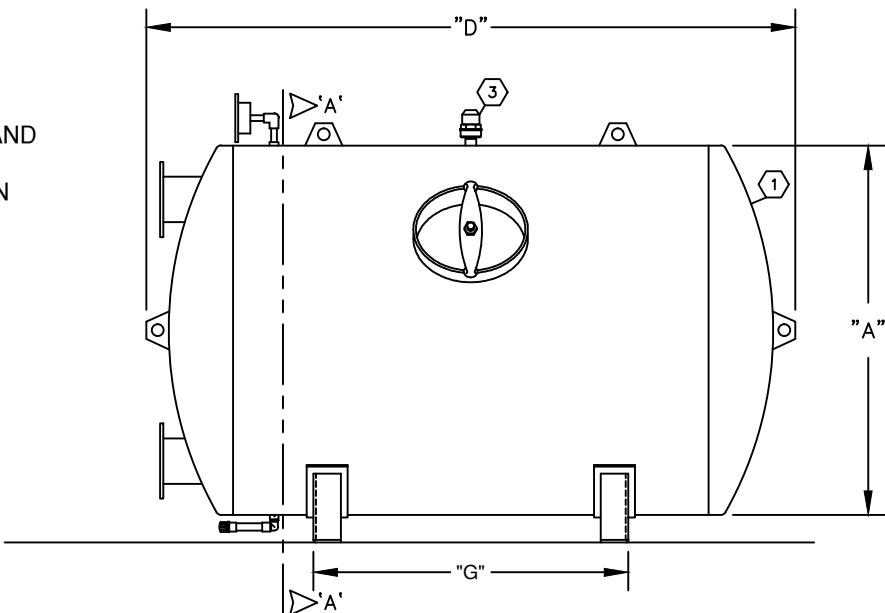
1. TANK MATERIAL-316L STAINLESS STEEL
2. EXTERIOR SURFACES TO BE COATED WITH BLUE PAD-COTE, AN NSF LISTED CHEMICALLY CURED SEMI-GLOSS EPOXY.
3. INTERCONNECTING PIPING-SCH. 80 PVC, MAX. VELOCITY LESS THAN 10 FPS.
4. FILTER WORKING PRESSURE IS 50 PSI. TEST PRESSURE IS 65 PSI.
5. TANK WARRANTED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP PER SPECIFICATIONS.



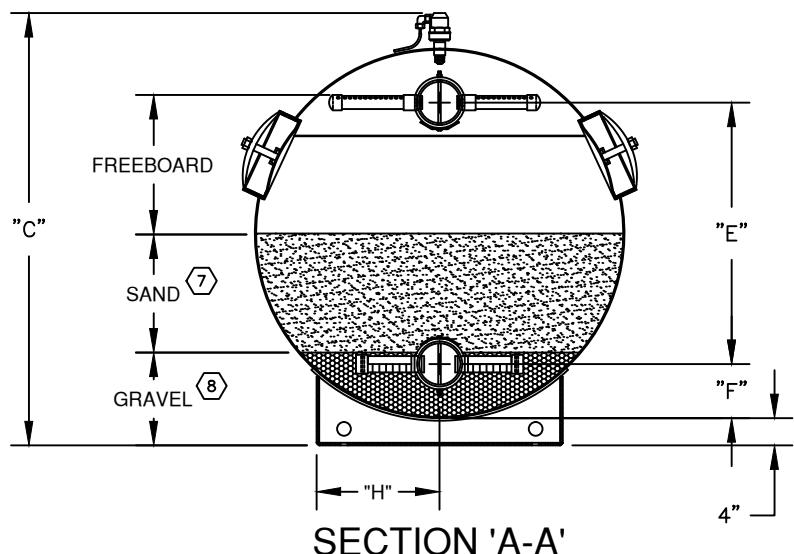
PLAN VIEW W/CUT-OUT
OF LATERAL LAYOUT



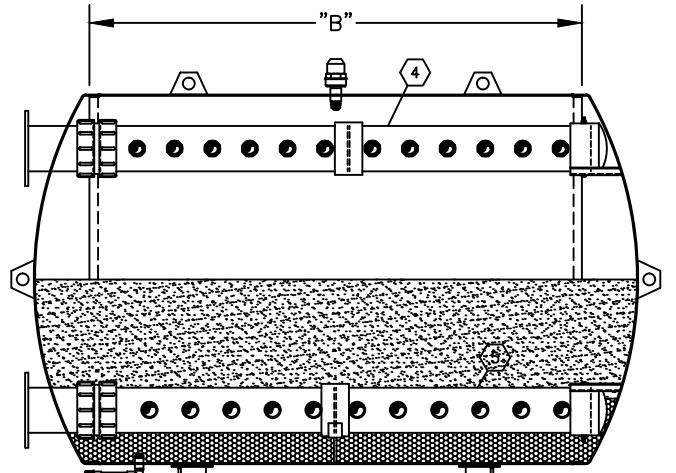
Verify Manway Locations



4 Manual Control Valves with Linkage



SECTION 'A-A'



CENTERLINE SECTION

FILTER & BACK-WASH RATE	FILTER & BACKWASH RATE UNITS IS GALLONS PER MINUTE, BASED ON 15 GPM/SQ FT OF FILTER AREA. FILTER AREA IS SQUARE FEET. PLUMBING SIZE IS NOMINAL NPT PIPE.												PLUMBING SIZE	
	DIM. "A"	DIM. "B"	FILTER AREA	CATALOG NUMBER	DIM. "C"	DIM. "D"	DIM. "E"	DIM. "F"	DIM. "G"	DIM. "H"	MEDIA	SAND CU. FT.	GRAVEL CU. FT.	
SAND CU. FT.	GRAVEL CU. FT.													
210	3'	4'	14	6723-H-4-1C	47.50"	59.50"	20.75"	7.00"	29.50"	12.00"	11	3.8	4"	
248	3.5'	4'	16.5	6724-H-4-1C	53.50"	61.00"	28.00"	6.50"	30.50"	14.00"	16.2	4.7	4"	
255	3'	5'	17	6723-H-5-1C	47.50"	71.50"	20.75"	7.00"	35.50"	12.00"	13.4	4.7	4"	
287	4'	4'	19.15	6725-H-4-1C	59.50"	62.75"	35.00"	6.50"	31.00"	16.00"	22.9	5.1	4"	
300	3.5'	5'	20	6724-H-5-1C	53.50"	73.00"	28.00"	6.50"	36.50"	14.00"	19.6	5.7	4"	
300	3'	6'	20	6723-H-6-1C	47.50"	83.50"	20.75"	7.00"	41.50"	12.00"	15.8	5.7	4"	
345	3'	7'	23	6723-H-7-1C	47.50"	95.50"	20.75"	7.00"	47.50"	12.00"	17.2	7.3	4"	
347	4'	5'	23.15	6725-H-5-1C	59.50"	74.75"	35.00"	6.50"	37.00"	16.00"	27.5	6	4"	
353	3.5'	6'	23.5	6724-H-6-1C	53.50"	85.00"	28.00"	6.50"	42.50"	14.00"	23.1	6.8	6"	
390	3'	8'	26	6723-H-8-1C	47.50"	107.50"	20.75"	7.00"	53.50"	12.00"	18.5	8.9	6"	
397	4.5"	5'	26.5	6726-H-5-1C	65.50"	76.38"	38.25"	6.75"	38.00"	18.00"	34.9	9.1	6"	
406	3.5'	7'	27	6724-H-7-1C	53.50"	97.00"	28.00"	6.50"	48.50"	14.00"	26.4	7.5	6"	
407	4'	6'	27.15	6725-H-6-1C	59.50"	86.75"	35.00"	6.50"	43.00"	16.00"	32.2	6.9	6"	
435	3'	9'	29	6723-H-9-1C	47.50"	119.50"	20.75"	7.00"	59.50"	12.00"	20.7	9.6	6"	
448	5'	5'	29.87	6727-H-5-1C	71.50"	78.00"	38.25"	10.88"	39.00"	20.00"	39.2	14.4	6"	
458	3.5'	8'	30.5	6724-H-8-1C	53.50"	109.00"	28.00"	6.50"	54.50"	14.00"	29.6	8.2	6"	
465	4.5"	6'	31	6726-H-6-1C	65.50"	88.38"	38.25"	6.75"	44.00"	18.00"	40.8	10.5	6"	
467	4'	7'	31.15	6725-H-7-1C	59.50"	98.75"	35.00"	6.50"	49.00"	16.00"	37	8.4	6"	
480	3'	10'	32	6723-H-10-1C	47.50"	131.50"	20.75"	7.00"	65.50"	12.00"	22.8	10.2	6"	
510	3'-6"	9'	34	6724-H-9-1C	53.50"	129.18"	28.00"	6.50"	60.50"	14.00"	33	9.8	6"	
523	5'	6'	34.87	6727-H-6-1C	71.50"	99.95"	38.25"	10.88"	45.00"	20.00"	45.9	17	6"	
525	3'	11'	35	6723-H-11-1C	47.50"	151.58"	20.75"	7.00"	71.50"	12.00"	25	10.9	6"	
527	4'	8'	35.15	6725-H-8-1C	59.50"	120.78"	35.00"	6.50"	55.00"	16.00"	41.8	9.8	6"	
533	4'-6"	7'	35.5	6726-H-7-1C	65.50"	110.36"	38.25"	6.75"	50.00"	18.00"	46.8	12.2	6"	
563	3'-6"	10'	37.5	6724-H-10-1C	53.50"	141.18"	28.00"	6.50"	66.50"	14.00"	36.4	11.4	6"	

QTY: 1



PADDOCK
POOL EQUIPMENT COMPANY

PO Box 11676 Rock Hill, SC 29731-1676 (800)849-2729
Fax:(803)324-1116

SALES DRAWING

DISPOSITION	BY	DATE
APPROVED AS SUBMITTED		
APPROVED AS MODIFIED		
NOT APPROVED -- RESUBMIT		

MISCELLANEOUS EQUIPMENT

5
8
1
8

Sight Glass



The sight glass is installed in the backwash line to allow operator to observe clarity of filter discharge water during backwashing. This permits shortest possible backwash. conserving water.

The sight glass is made from brass with a Lucite viewing tube. Sizes available are 1-1/2" and 2".

Submittal Information:

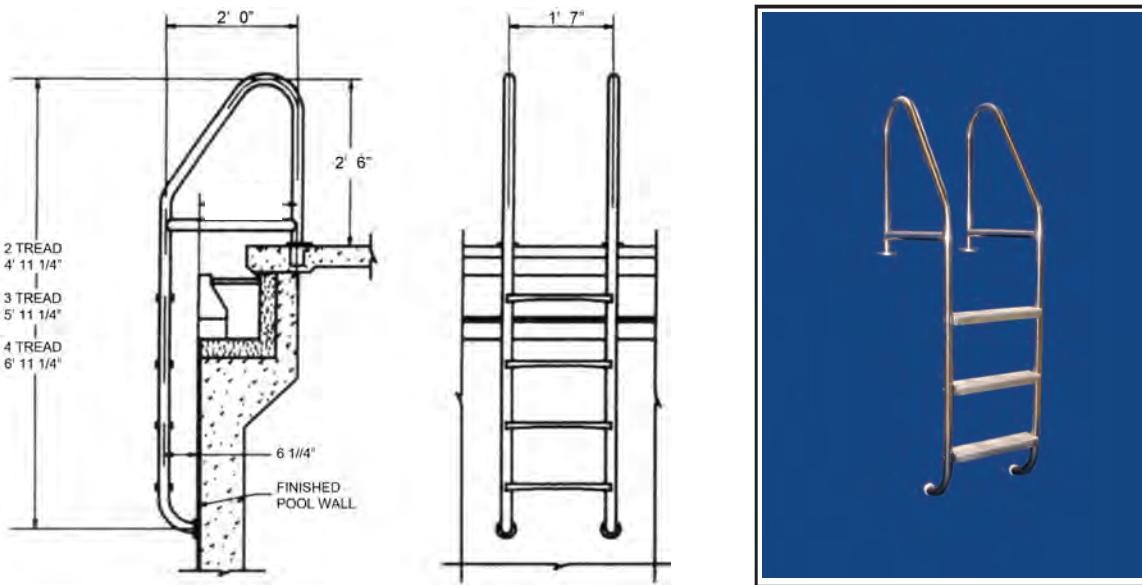
QTY: 1 for Pool
QTY: 1 for Spa

Additional Information



555 Paddock Parkway
Rock Hill, SC 29730
Ph: 803-324-1111
Fx: 803-324-1116

Ladder



Paddock's **Ladders** are fabricated from Type 304 or 316L stainless steel tubing with an outside diameter of 1.90" and standard wall thickness of .083". (Outside diameter of 1.5" or wall thickness of .120" is also available.)

Ladder rails are spaced 19" apart with a cross brace for added stability and furnished with slip-resistant stainless steel treads.

Exposed surfaces shall be polished to a Paddock buff finish.

A rubber bumper on each rail protects the interior pool finish.

Paddock deck anchors with Paddock escutcheon plates are available.

P/N _____, Model 4539-_____, 2-Tread Ladder Type _____, _____" OD x _____ Wall Less Anchors, Qty _____

P/N _____, Model 4540-_____, 3-Tread Ladder Type **304**, **1.9**" OD x **.083** Wall Less Anchors, Qty **2 for Pool**

P/N _____, Model 4541-_____, 4-Tread Ladder Type _____, _____" OD x _____ Wall Less Anchors, Qty _____

P/N _____, Model 4542-_____, 5-Tread Ladder Type _____, _____" OD x _____ Wall Less Anchors, Qty _____

Powder Coating

DECK EQUIPMENT

Wedge Deck Anchor

4
8
0
1



The body shall be constructed of cast bronze and shall have a tapered chamber to receive wedge by means of which a ladder or other rail may be held securely.

Wedge shall be of cast bronze and shall be drawn against rail being anchored by means of a $\frac{1}{2}$ " bolt.

Wedge deck anchor shall be provided with a ground connection at its base and shall have an anchoring protrusion at its center.

PN 200153

1.90" OD Tubing

Submittal Information:

QTY: 10 for Pool
QTY: 4 for Spa

Additional Information



555 Paddock Parkway
Rock Hill, SC 29730
Ph: 803-324-1111
Fx: 803-324-1116

DECK EQUIPMENT

Escutcheon

4
8
3
7



The polished stainless steel round 1.90" escutcheon plates are used with mounting anchors.

Note: 4 1/2" diameter

Submittal Information:

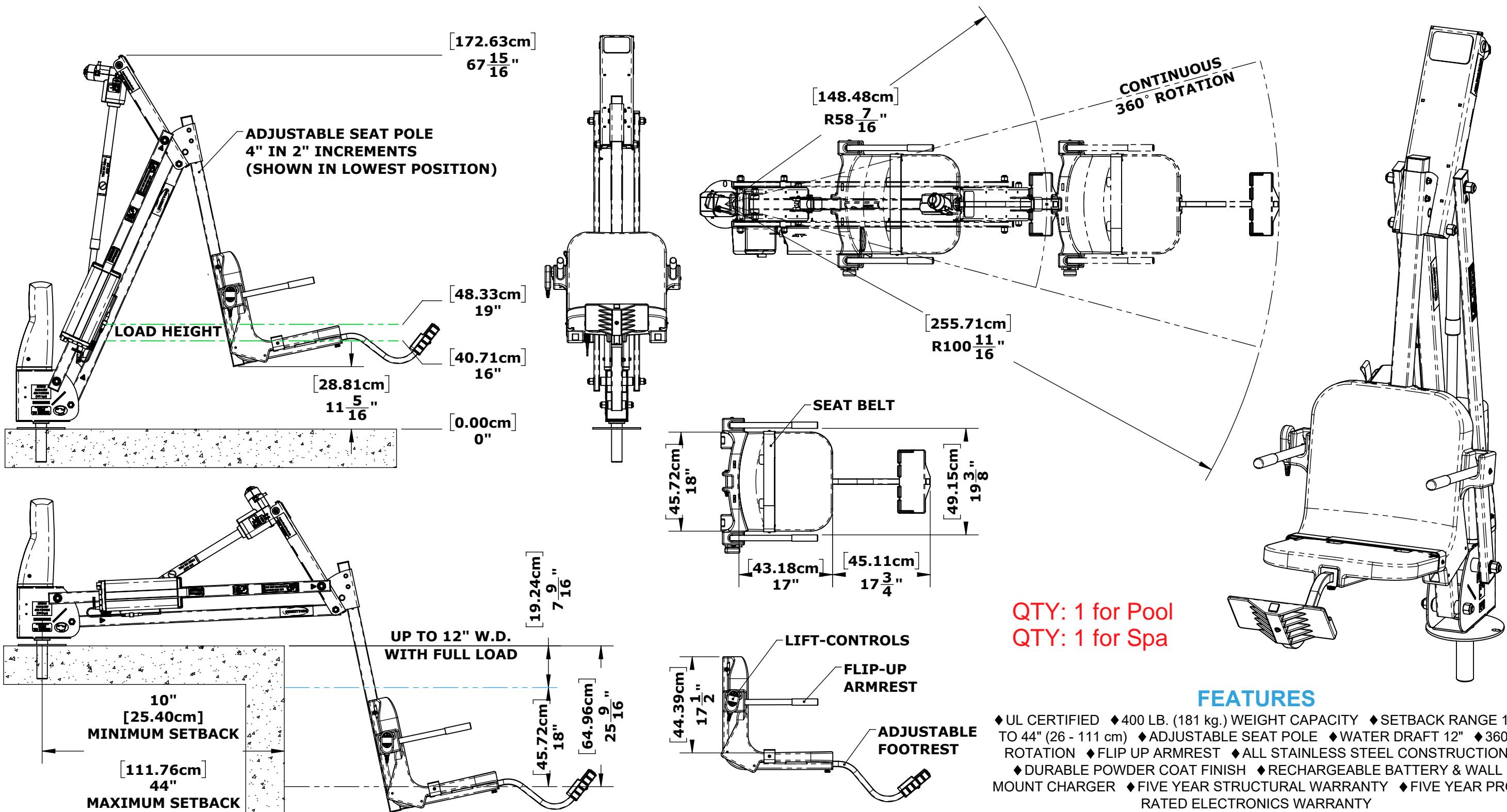
QTY: 10 for Pool
QTY: 4 for Spa
Powder Coating

PN 200058

Additional Information



555 Paddock Parkway
Rock Hill, SC 29730
Ph: 803-324-1111
Fx: 803-324-1116



MIGHTY 400 - BLUE

F-MTY400
PART NO. INV01698

PROPERTY AND CONFIDENTIAL INFORMATION

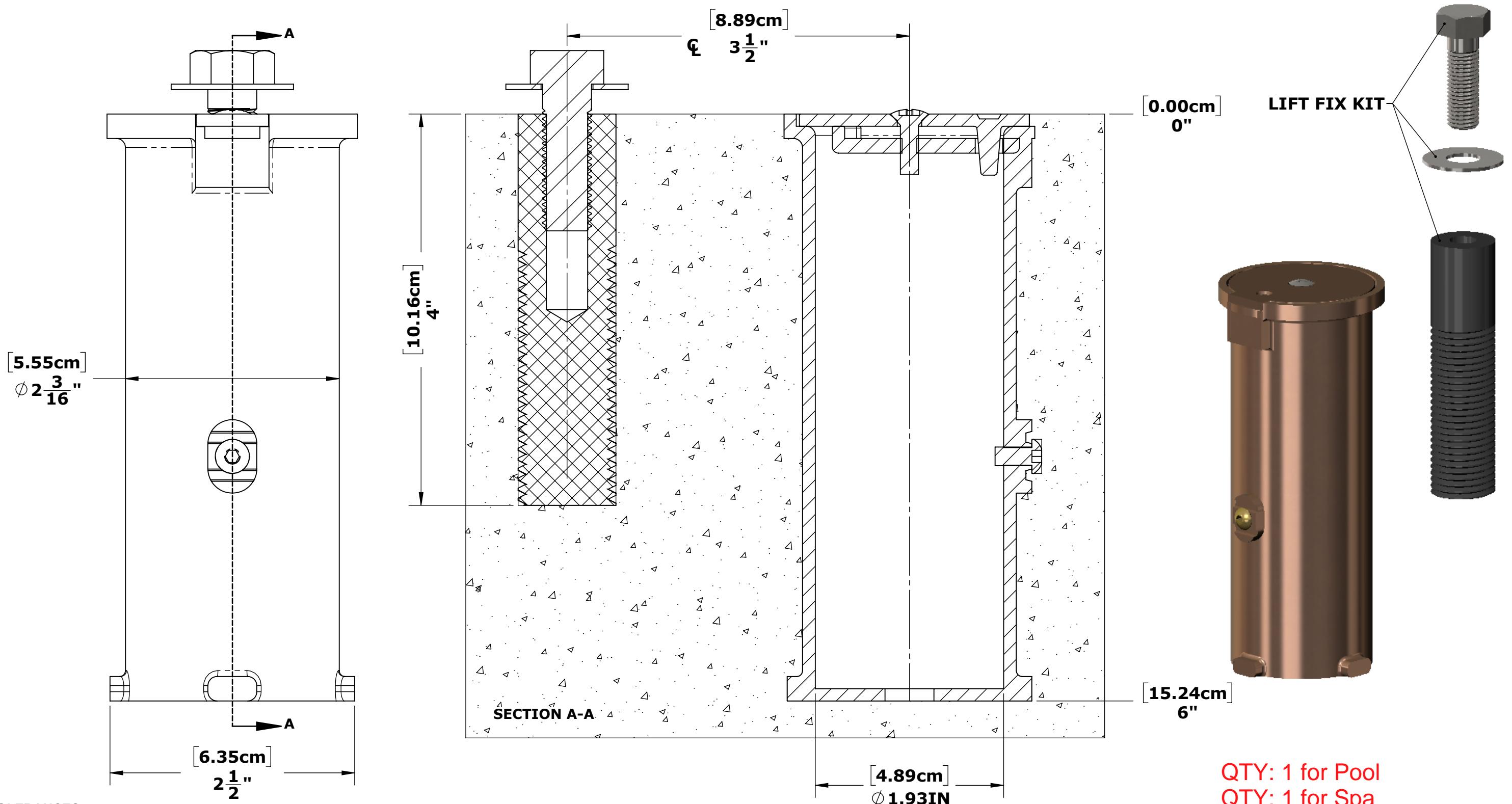
THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE SOLE PROPERTY OF AQUA CREEK PRODUCTS LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION FROM AQUA CREEK IS PROHIBITED.

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

**MATERIAL: 304 STAINLESS STEEL
FINISH: POWDER COAT - WHITE
APPROX. WEIGHT: 180.23 LBS.**

CLICK HERE TO VIEW THIS PRODUCT:
<https://aquacreekproducts.com/>

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
P1	INITIAL RELEASE	3/25/2021	J.MAXWELL
P2	MODIFIED LIFTING ARM/HEAD	9/27/2022	J.MAXWELL



ANCHOR - 1.90"X6.00" - W/KIT

F-808SA
PART NO. INV01494

MATERIAL: BRONZE
FINISH: N/A
APPROX. WEIGHT: 2.19 LBS.

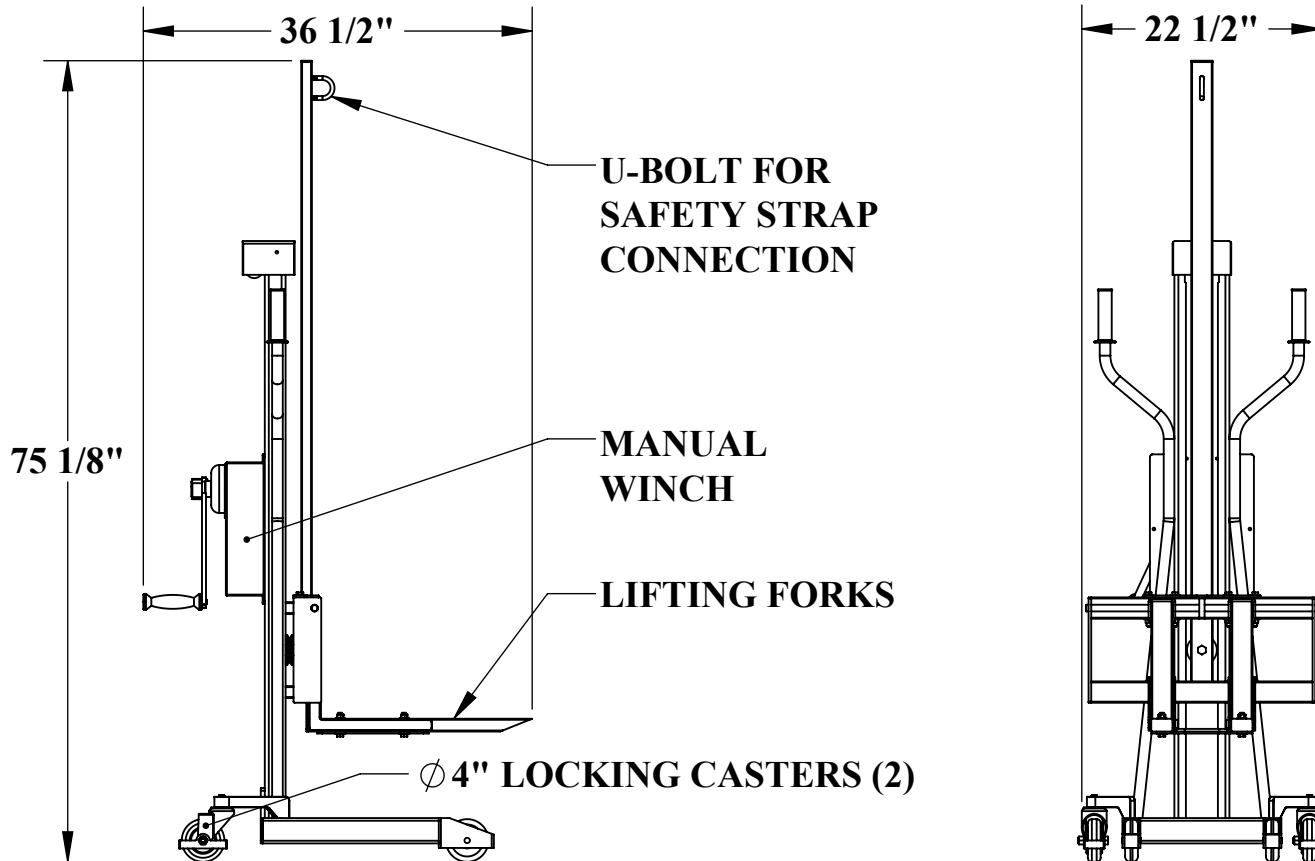
PROPRIETARY AND CONFIDENTIAL INFORMATION

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*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
P1	INITIAL RELEASE	6/22/2021	J.MAXWELL

MIGHTY TRANSPORT CART

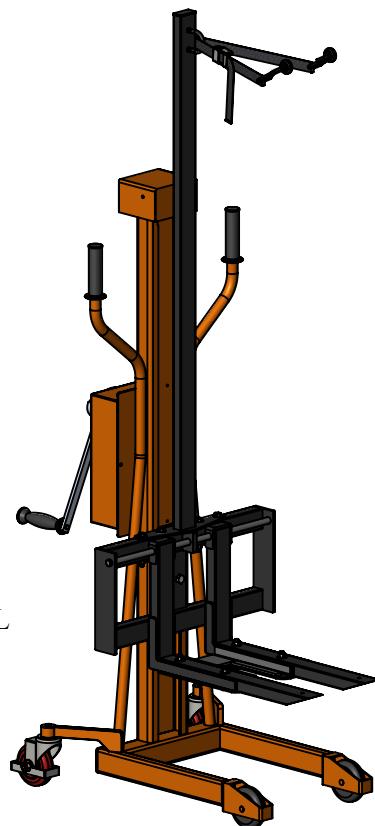


SPECIFICATIONS:

THE AQUA CREEK MIGHTY TRANSPORT CART SHALL BE A MANUAL WINCH POWERED TRANSPORT CART WITH CAPTURE BARS DESIGNED TO BE USED IN THE SAFE REMOVAL AND TRANSPORT OF THE MIGHTY LIFT. THE CART SHALL BE EASILY OPERABLE BY ONE PERSON, AND SHALL HOLD THE MIGHTY LIFT SECURELY AND STEADILY FOR TRANSPORT AND STORAGE. IT SHALL BE CONSTRUCTED PRIMARILY OF POWDER COATED STEEL AND STAINLESS STEEL, AND SHALL INCLUDE 4" LOCKING CASTERS.

MAIN ASSEMBLY: POWDER COATED CARBON STEEL
 MAST FORK ASSEMBLY: POWDER COATED 304L STAINLESS STEEL
 CASTERS: 4" LOCKING POLYOLEFIN
 FRONT WHEELS: 3.5" POLYETHYLENE
 WARRANTY: 1 YEAR LIMITED

QTY: 1 for Pool
 QTY: 1 for Spa



9889 GARRYMORE LANE
 MISSOULA, MT 59808
 (406) 549-0769
 FAX (406) 549-2602

NOTE:
 *SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

PRODUCT:	TRANSPORT CART	
PART #:	F-MTTC	
SCALE:	1:18	DATE: 11/25/2019
DRAWN BY:	KR	REVISION: A



Paddock Pool Equipment Company, Inc.
555 Paddock Parkway
Rock Hill, SC 29730
United States of America

Ph: 803-324-1111

Submittal

Number: SO23413 Date: 01-Sep-23

Submitted To:

To:

Joe Sandy
Paddock Construction Company, Inc.
1120 E. White St.
Rock Hill SC 29730
United States

Danny Lafrancois

EMAIL: dlafrancois@paddockpool.com

PHONE #:

Project Name: High Point University Pool House

Project Manager: Trevor Ottley
ottley@paddockindustries.com
PHONE #: 803-372-6088

Qty	Description	Drawing	Approval
175 ft	Pool 23413.01 - R200-304-DI-W Gutter,R200,304L,Drop-IN,W - 1-6" PO, 1-4" Return, 6 Surge Weirs, 5" DTR, 107 Straight Sections, 68' Radius Sections	23413.01	
1	HZ1-316-36-14 Filter,HZ,316,36"Dia,14sf Filter,HZ,316,36"Dia,14sf - Gauges, Media, 2 Tees, 4 Manual Control Valves with Linkage, Air Relief	Cut Sheet	
2	9400116 Rail,Hand,304,1.9X .083 - 90" Step Rail, 3 Uprights, Add Powder Coating	Cut Sheet	
	Spa 23413.02 - R200-304-DI-W Gutter,R200,304L,Drop-IN,W - 1-6" PO, 1-4" Return, 2 Surge Weirs, 5" DTR, 12' Straight Sections, 43' Radius Sections	23413.02	
2	9400116 Rail,Hand,304,1.9X .083 add Powder Coating - 5' Step Rail	Cut Sheet	

Paddock Pool Equipment Company

Gutter Flow Calculations

Project

High Point U- Pool- R200

Total Recirculation Rate, gpm

178

Pool Perimeter, feet

173

Average Gutter Width, inches

7.7755844

Usable Gutter Depth, inches

4.8125

Number of 90-degree corners

6

Number of 45-degree corners

0

Number of radiused corners

0

Number of PO Converters

1

Number of Return Converters

1

Supply tube area, square inches

15.61

Number of inlet nozzles

60

Max. tube pressure allowed, psi

7.5

Density of Fluid, lb_m/ft³

62.217 (Water at 80°F)

Local Gravity, ft/sec²

32.17

Absolute Viscosity (μ), lb_fsec/ft²

1.791E-05 (Water at 80°F)

Click on **Tools > Solver**, then press **Enter** twice

Total gutter system flow capacity is

805.42 gpm

Gutter collection rate is

274.87 gpm

Design for surge weirs is:

Adequate

Design for rimflow conditions is:

Adequate

Flow rate per nozzle

2.97 gpm

Nozzle Size

5

Nozzle Velocity

12.41 ft/sec

Supply Tube Velocity

1.83 ft/sec

Supply Tube Pressure

3.75 psi

Surge Capacity in Flow Channel

250.20 gallons

Navier-Stokes Continuity Equation:

$$\left[1 - \left(\frac{\rho}{m} \right)^2 W^5 g \eta^3 \right] \partial \eta = \frac{f}{8} \partial \left(\frac{x}{W} \right)$$

Solving this equation for turbulent flow conditions with m as the unknown variable yields

$$D_1 m^2 + D_2 \sqrt[4]{m^7} + D_3 = 0$$

where ρ = density of the fluid, lb_m/ft²

m = mass flow rate, lb_m/sec

g = acceleration due to local gravity, ft/sec²

L = length of channel, ft

W = width of channel, ft

η = fluid height to width ratio

f = Darcy friction factor, $\frac{0.316}{\sqrt{R_e}}$

x = distance along centerline of channel

μ = absolute viscosity, lb_fsec/ft²

y = depth of fluid, ft

R_e = Reynold's Number, $\frac{4m}{\mu(2y+W)}$

Francis Weir Formula:

$$Q = 3.33 L \sqrt{H^3}$$

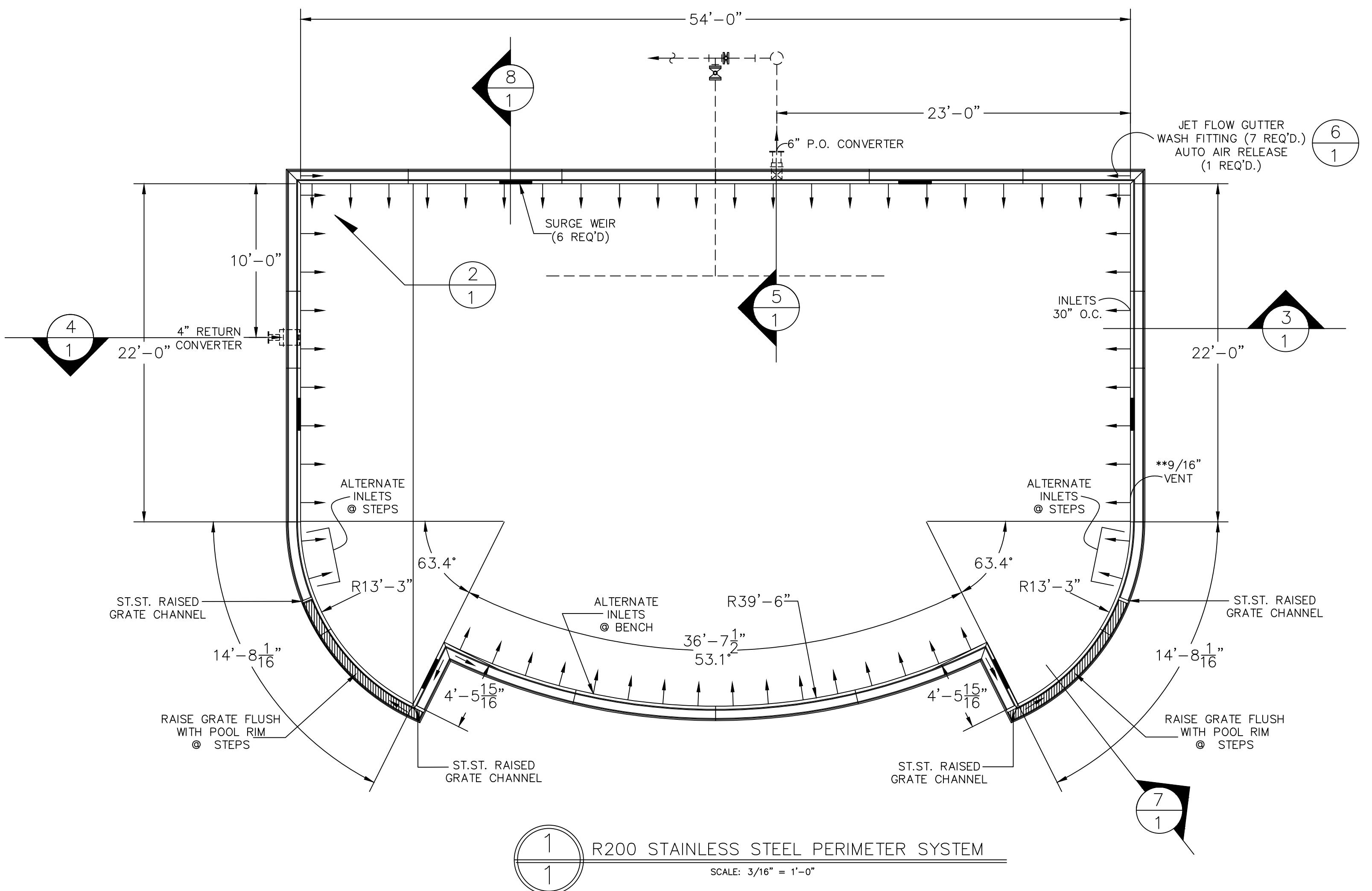
where

Q = flow rate, ft³/sec

L = length of weir, ft

H = height of water above crest of weir, ft

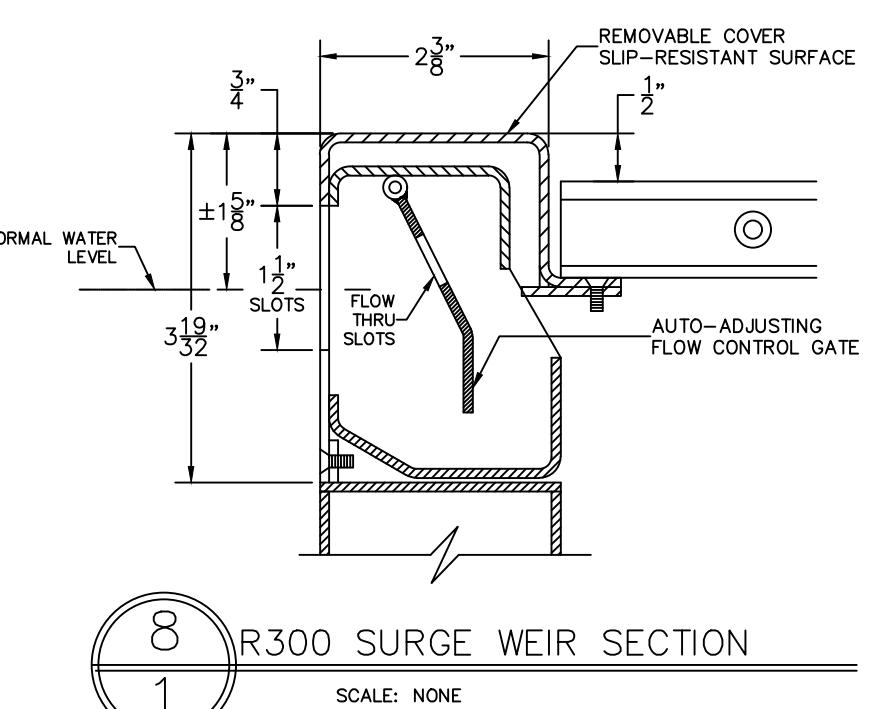
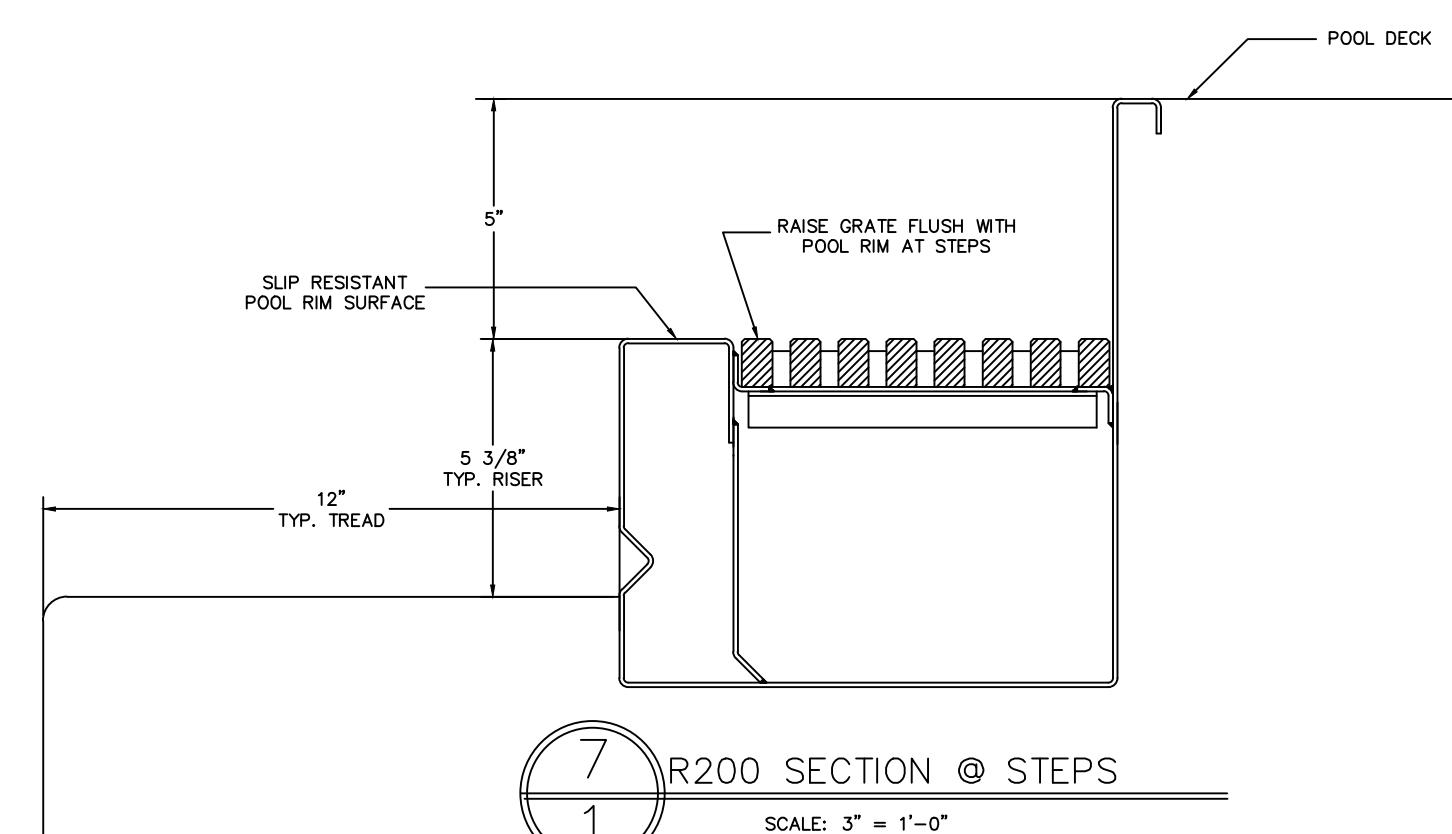
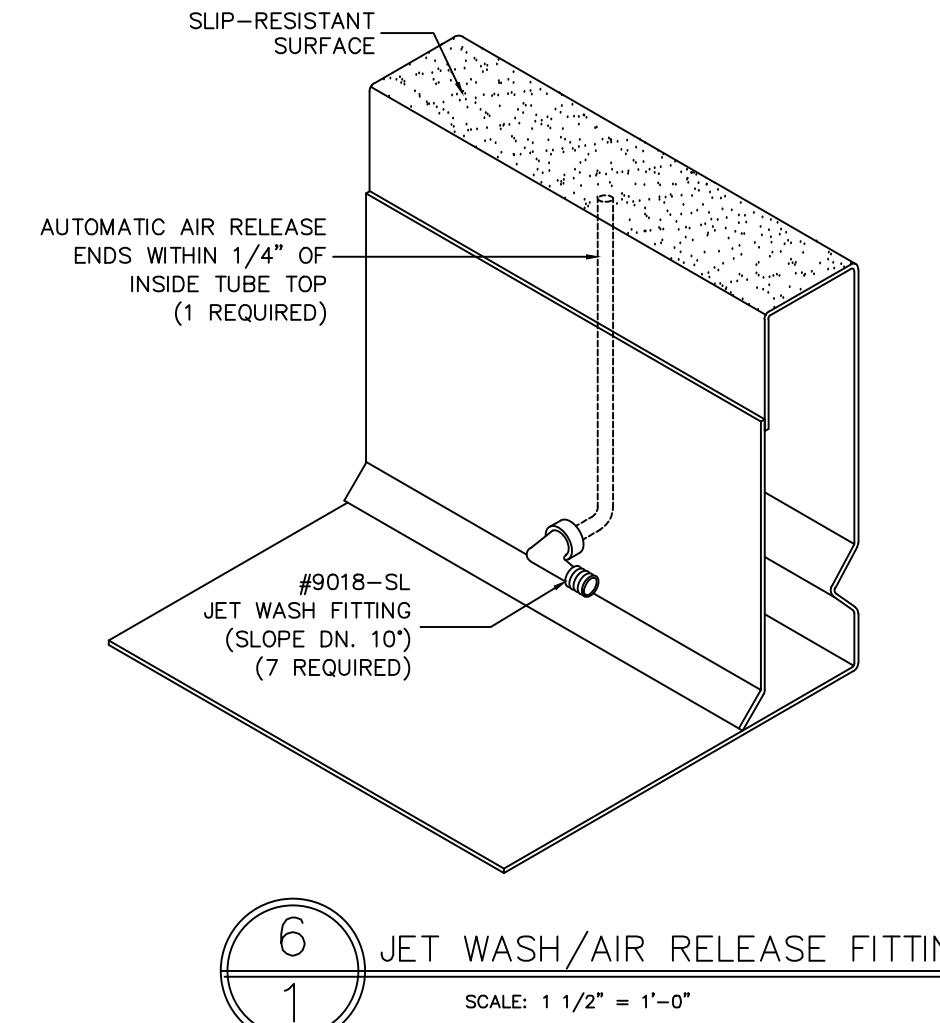
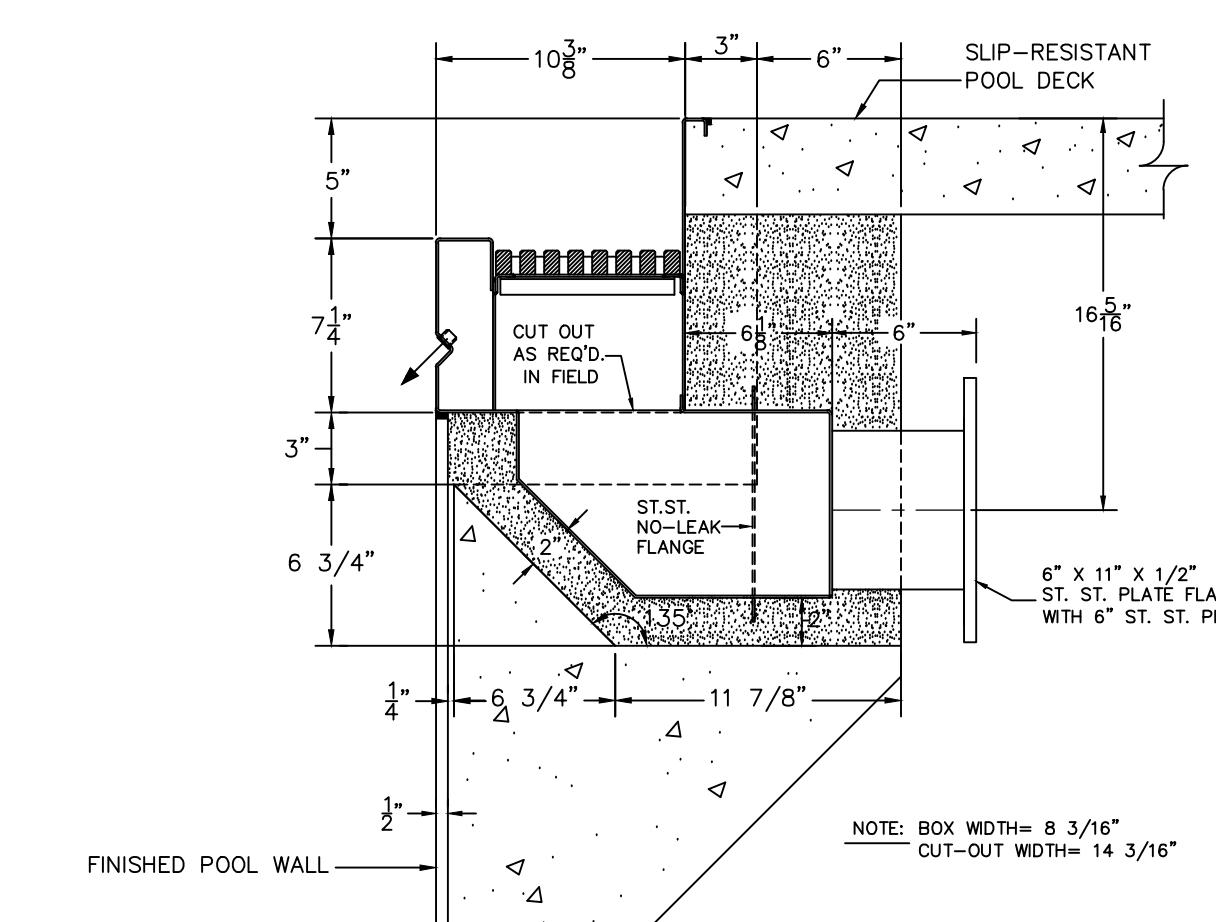
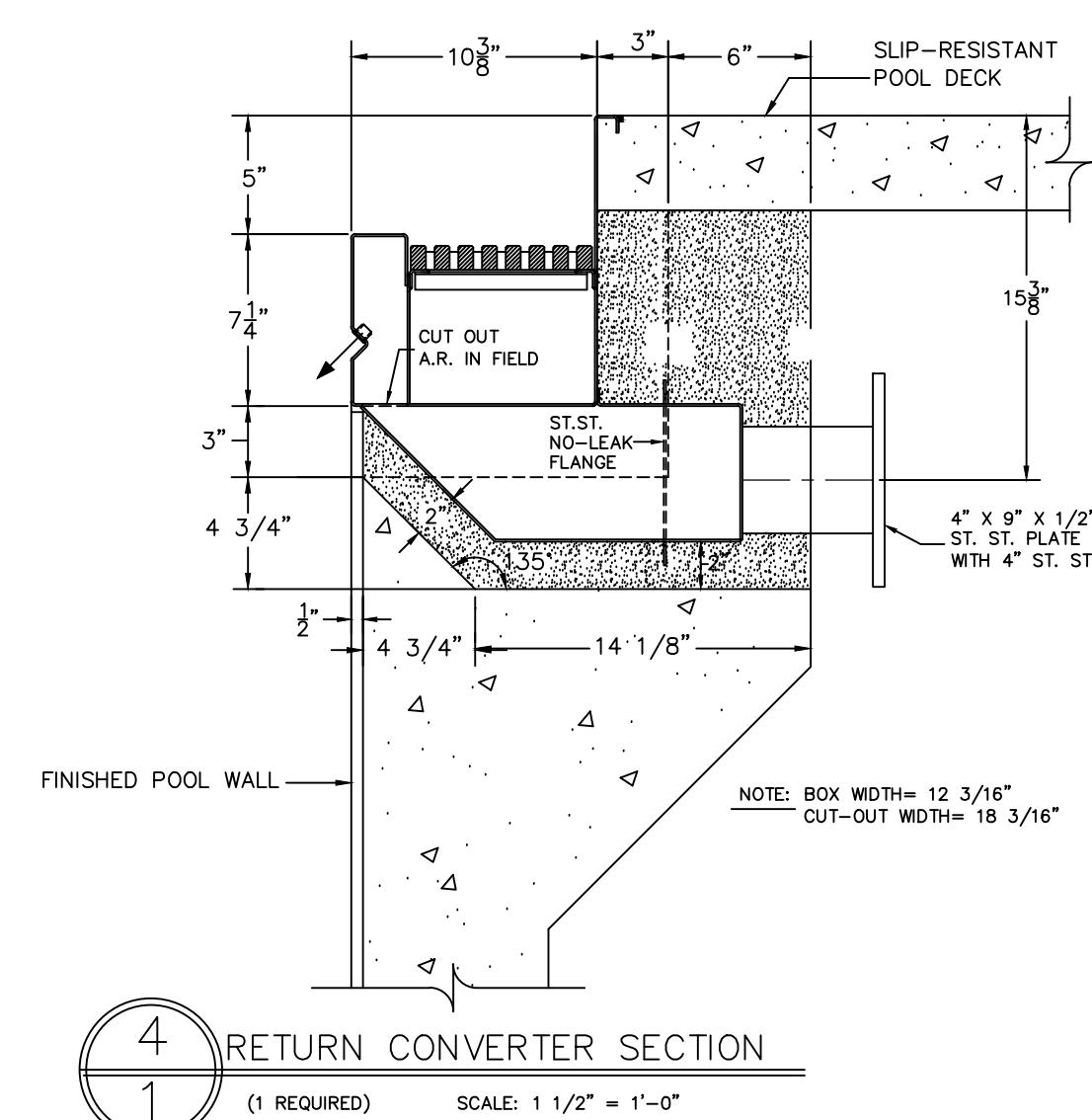
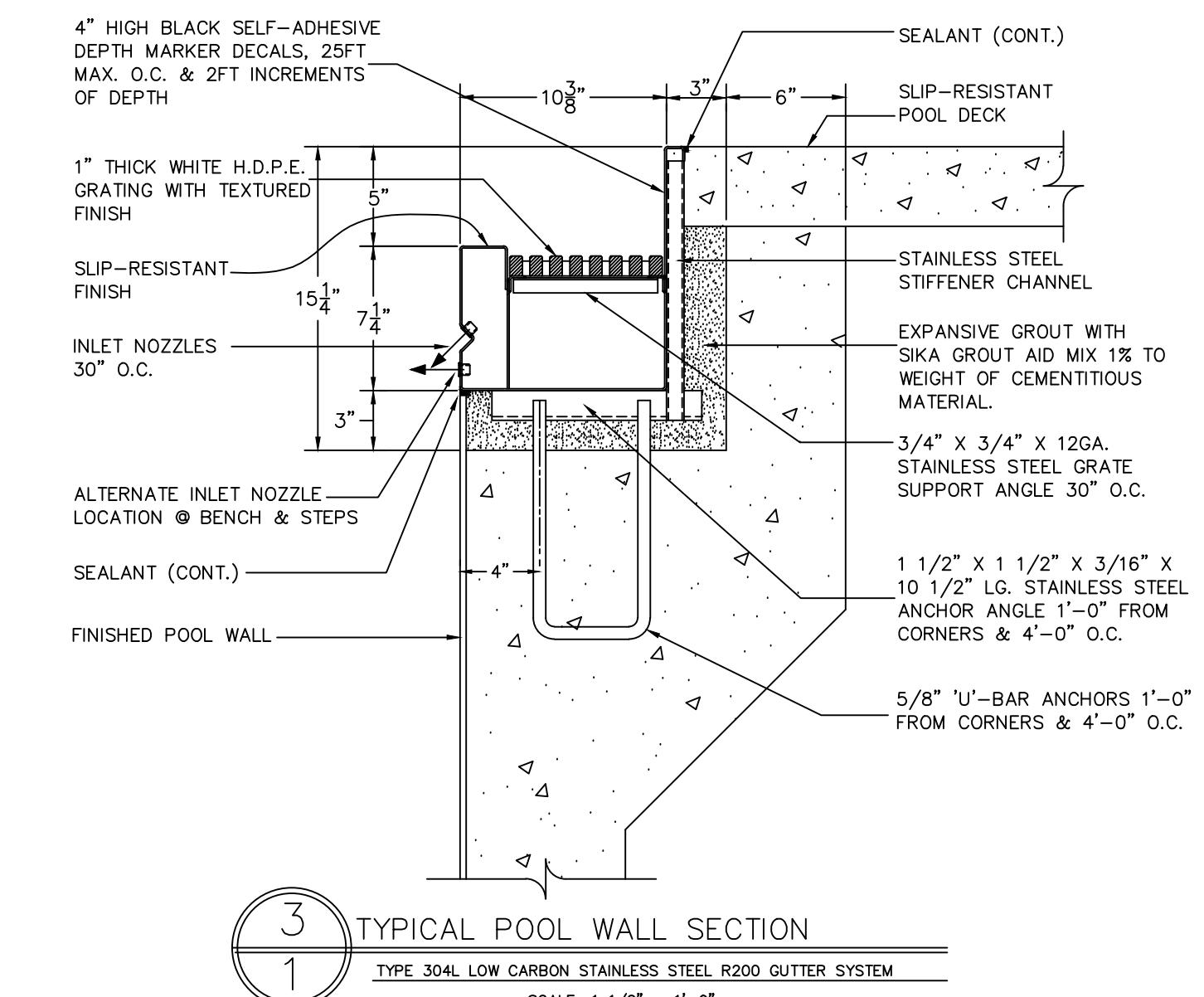
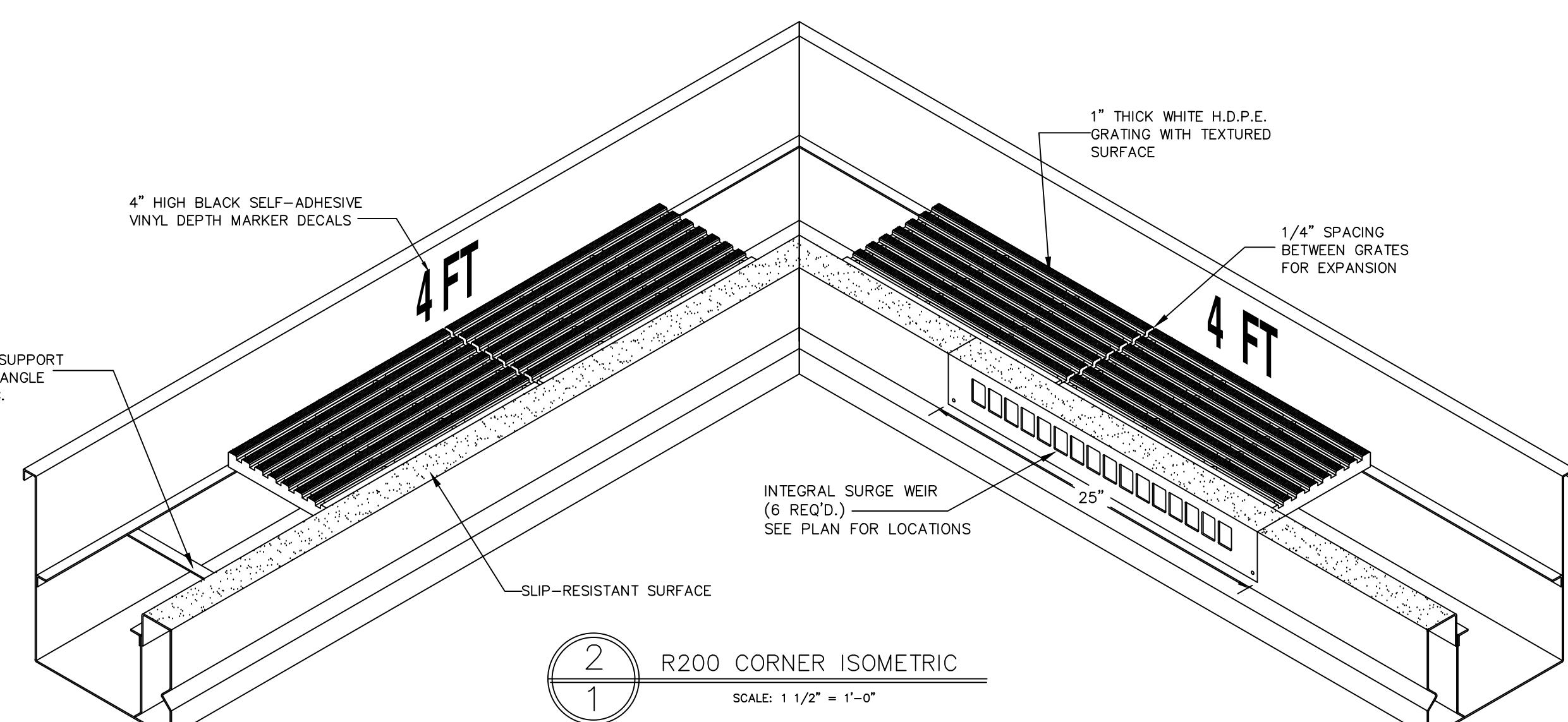
REVISIONS		DESCRIPTION		BY
DATE	REV			M.J.G.
2-27-23	1	ADDED (18) MAGNESIUM SACRIFICIAL ANODES		



POOL DATA R200	
POOL PERIMETER	172'-11 9/16"
POOL AREA	1728 SF
RECIRCULATION RATE	178 GPM
GUTTER SYSTEM FLOW CAPACITY	805.42 GPM
FLOW CHANNEL SURGE CAPACITY	250.2 GALS
NOTE: (60) 5/16"Ø I.D. NOZZLES; 30"O.C. @ 2.97 GPM EA. FOR A TOTAL FLOW OF 178 GPM	

DEPTH MARKER SCHEDULE (BLACK VINYL DECALS ON GUTTER)	
QTY	DEPTH
6	3 FT
5	4 FT

**NOTE: SHOP DRILL 35/64"Ø RET. TUBE VENT HOLE. LEAVE UNPLUGGED FOR AT LEAST TWO WEEKS TO ALLOW DEBRIS TO EXIT THE TUBE THEN PLUG WITH 9/16" DIA. PLUG.



	SUBMITTAL SHOP DRAWINGS		
FABRICATION CANNOT COMMENCE UNTIL WE RECEIVE APPROVED SHOP DRAWINGS			
SUBMITTAL DATE:			
<input type="checkbox"/> DISPOSITION	<input type="checkbox"/> BY	<input type="checkbox"/> DATE	
<input type="checkbox"/> APPROVED AS SUBMITTED			
<input type="checkbox"/> APPROVED AS CORRECTED			
<input type="checkbox"/> NOT APPROVED-RESUBMIT			
<input type="checkbox"/> TYPE 304L ST.ST.			
<input type="checkbox"/> WHITE HDPE GRATES			

555 Paddock Parkway Rock Hill, SC 29731 Phone: (803) 324-1116 Fax: (803) 324-1116 info@paddockindustries.com	DESCRIPTION: R200 POOL PLAN, POOL WALL SECTIONS, CONVERTERS & EQUIPMENT DETAILS
DO NOT SCALE DRAWING TOLERANCES UNLESS NOTED: $x \pm 1/16$ $x \pm .020$ $1/8 \pm 1/32$ $x \pm .010$ $x \pm 1/4"$ $x \pm .005$	
BY: M.J.G. 8-28-23	LOCATION: HIGH POINT UNIVERSITY HIGH POINT, N.C.
CHECKED: <input type="checkbox"/>	APPROVED: <input type="checkbox"/>
SCALE (UNLESS NOTED):	AS SPECIFIED
W.O. #:	JOB: 23003.01
SIZE: D	PART NO.:
W.M.:	DWG. NO.:
304L ST.ST.	23413.01Sub 0

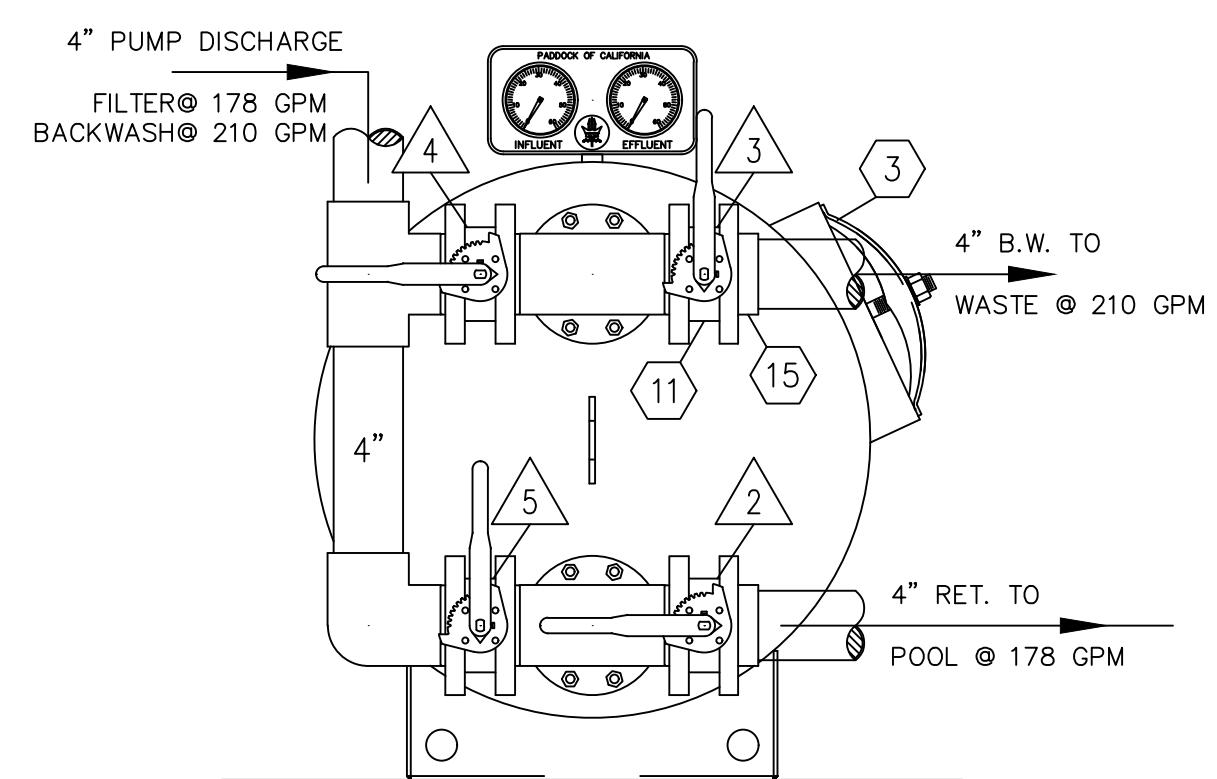
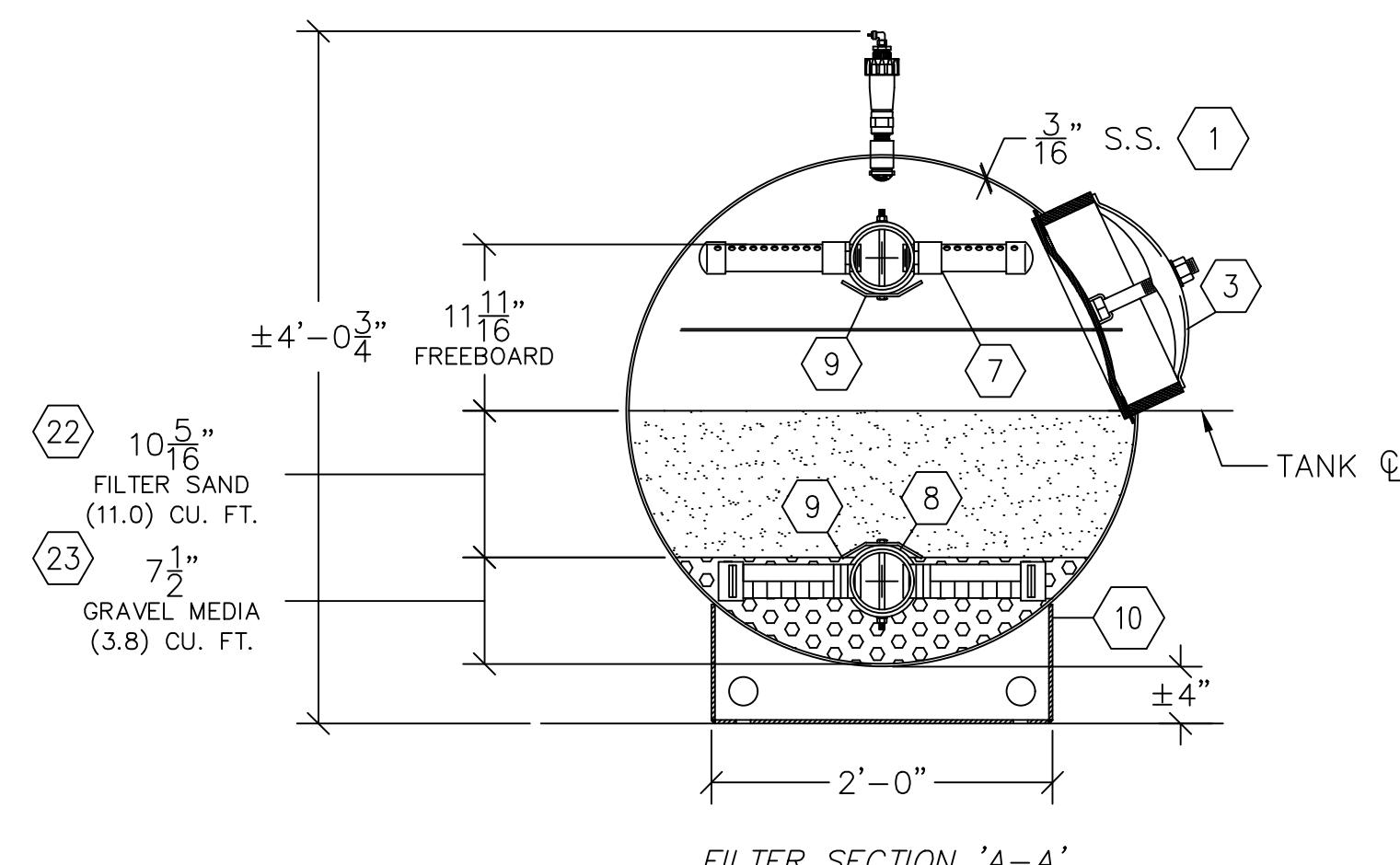
DATE	REV.	REVISION DESCRIPTION	BY

RECOMMENDED MAINTENANCE SPACE	
LENGTH	9'-0"
WIDTH	5'-0"
HEIGHT	6'-0"

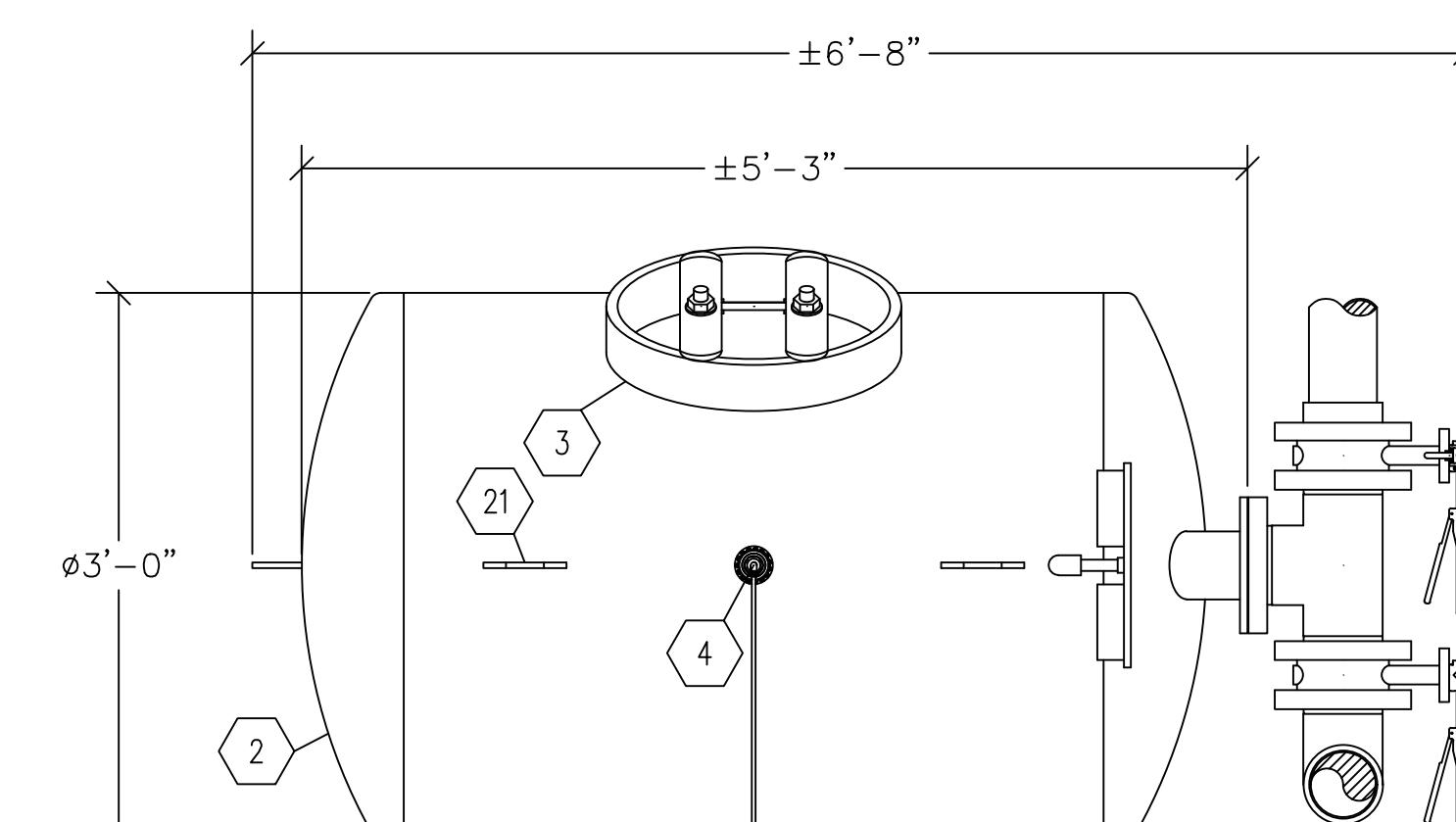
NOTE: PRESSURE VESSELS
CUSTOMER CHECK TO ENSURE THAT ALL LATERAL SLOTS ARE FACING DOWN & END LATERALS ARE PLUGGED PRIOR TO INSTALLING MEDIA.

VALVE LEGEND		
NO.	VALVE DESCRIPTION	FILTER
2	RETURN TO POOL	O X
3	BACKWASH TO WASTE	X O
4	FILTER INFLUENT	O X
5	BACKWASH INFLUENT	X O

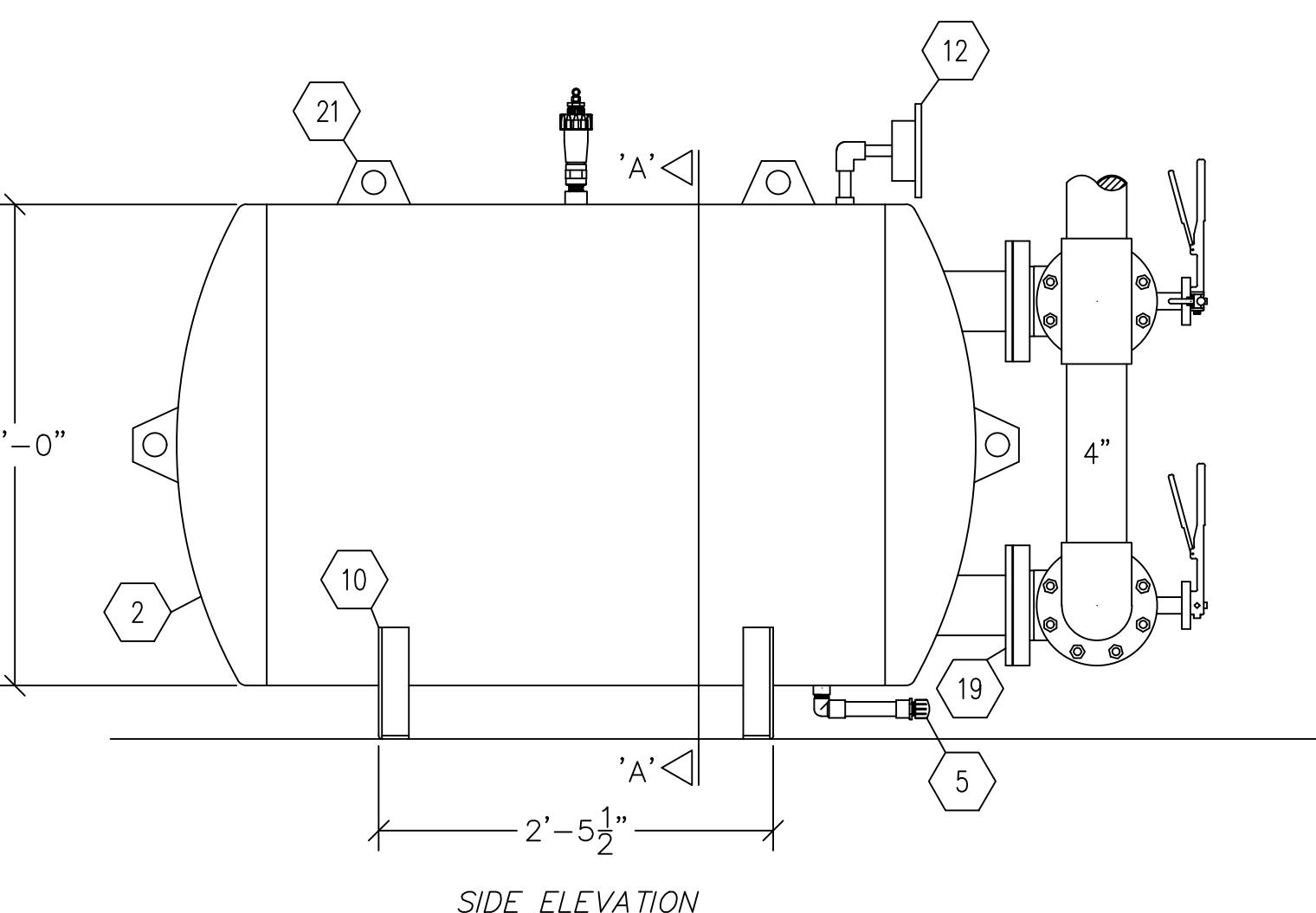
O—OPEN, X—CLOSED

END ELEVATION
TANK SHOWN IN FILTER MODE

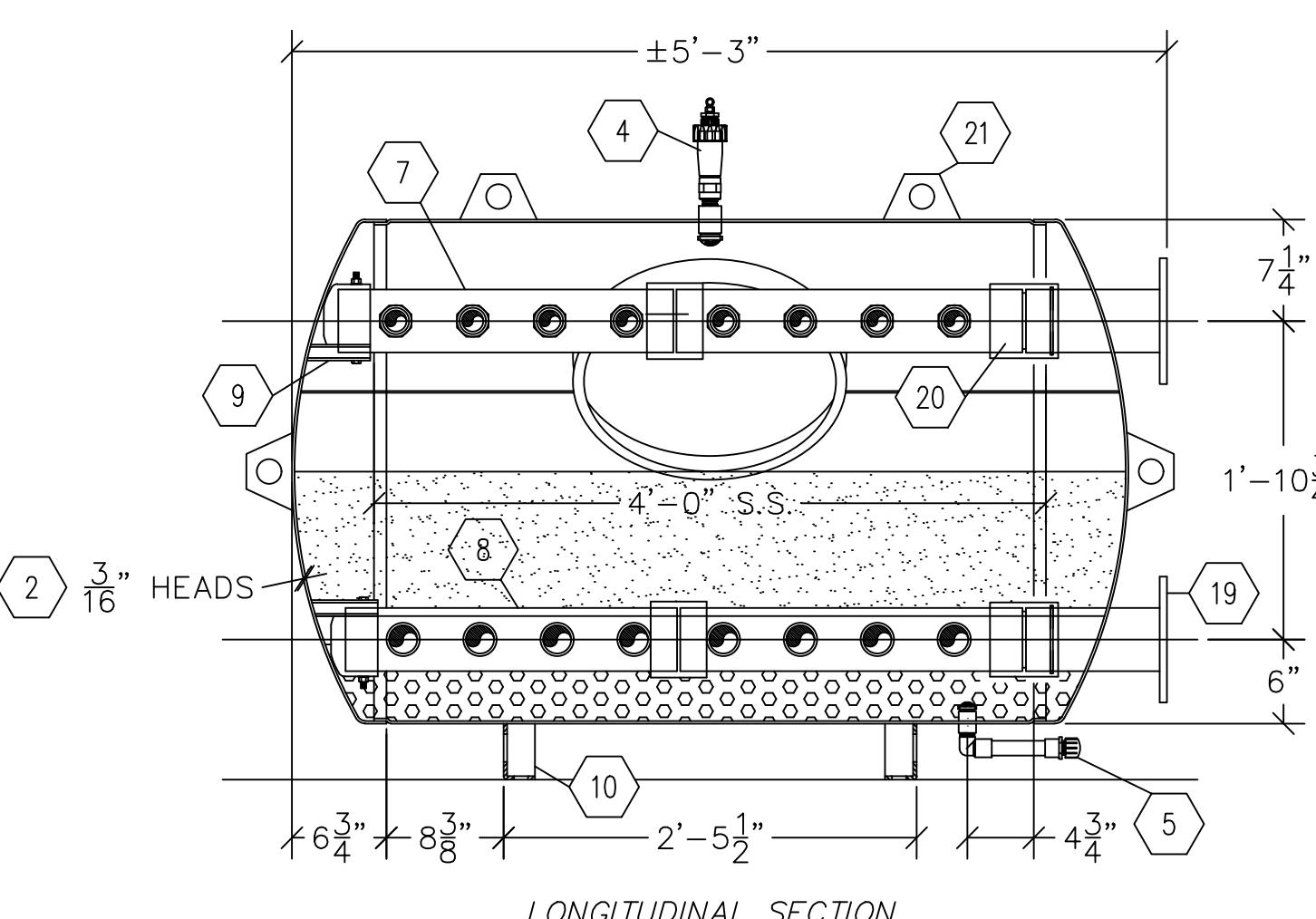
FILTER SECTION 'A-A'



PLAN VIEW



SIDE ELEVATION



LONGITUDINAL SECTION

NO.	QTY.	DESCRIPTION
1	1	SIDESHELL, 112 1/2" X 48" X 3/16" THICK, 316L ST. ST.
2	2	HEADS, 36" O.D. X 3/16" NOM. GA. FLANGED & DISHED, DISH RADIUS: 36", O.A.H.: ±7", 316L ST. ST.
3	1	14" X 18" ST. ST. MANWAY RING W/YOKES, COVER & GASKET
4	1	3/4" PVC AIR RELEASE VALVE WITH 1/4" IPS X 1/4" COMPRESSION 90° SWIVEL ELBOW WITH 12' OF 1/4" BLACK NYLON TUBING
5	1	3/4" SCH. 40 PVC DRAIN W/90° STREET ELL & MALE ADAPTER W/THD. CAP
6	2	3/4" ST. ST. STRAINER & COUPLING
7	1	4" SCH. 80 PVC NSF LISTED OVERDRAIN HEADER ASS'Y W/1 1/2" SCH. 80 PVC LATS.
8	1	4" SCH. 80 PVC NSF LISTED UNDERDRAIN HEADER ASS'Y W/2" NORYL SLOTTED LATS.
9	2	ST. ST. HEADER SUPPORT BRACKET W/ST. ST. BOLT, LOCKWASHER, & HEXNUT
10	2	ST. ST. TANK SADDLE
11	4	WAFER VALVE, 4" BRAY SERIES 30 WITH A CAST IRON EPOXY COATED BODY, NYLON COATED DUCTILE IRON DISC, 416 ST. ST. STEM, EPDM SEAT, STUD SET & LEVER HANDLE
12	1	GAUGE PANEL W/(2) 4 1/2" DIA. PRESSURE GAUGES, TUBING, & PET COCKS
13	3	4" SCH. 80 PVC SOCKET TEE
14	8	4" SCH. 80 PVC SPIGOT FLANGE
15	2	4" SCH. 80 PVC SOCKET FLANGE
16	AR	4" SCH. 80 PVC PIPE
17	1	4" SCH. 80 PVC SOCKET 90° ELL
18	2	4" GASKET & BOLT SET
19	2	4" X 9" ST. ST. PLATE FLANGE
20	2	4" PVC COUPLING
21	4	LIFTING LUG, 3/8" ST. ST.
22	11	CU. FT. FILTER SAND (.45 TO .55 MM) UNIFORMITY COEFFICIENT NOT TO EXCEED 1.6
23	4	CU. FT. 1/16 TO 1/8 GRAVEL MEDIA
24	1	BACK WASH LINE SIGHT GLASS (NOT SHOWN, SHIP LOOSE)

CATALOG NO.	DIA.	FILTER AREA	FILTER RATE	BACKWASH RATE	TANK CONN'S	U.D. LAT'S 2"	O.D. LAT'S 1 1/2"
			@12.7 GPM/SF	@15 GPM/SF	INF. EFF.		
6723-H-1C-4	36"	14 SQ. FT.	178 GPM	210 GPM	4" 4"	16	16

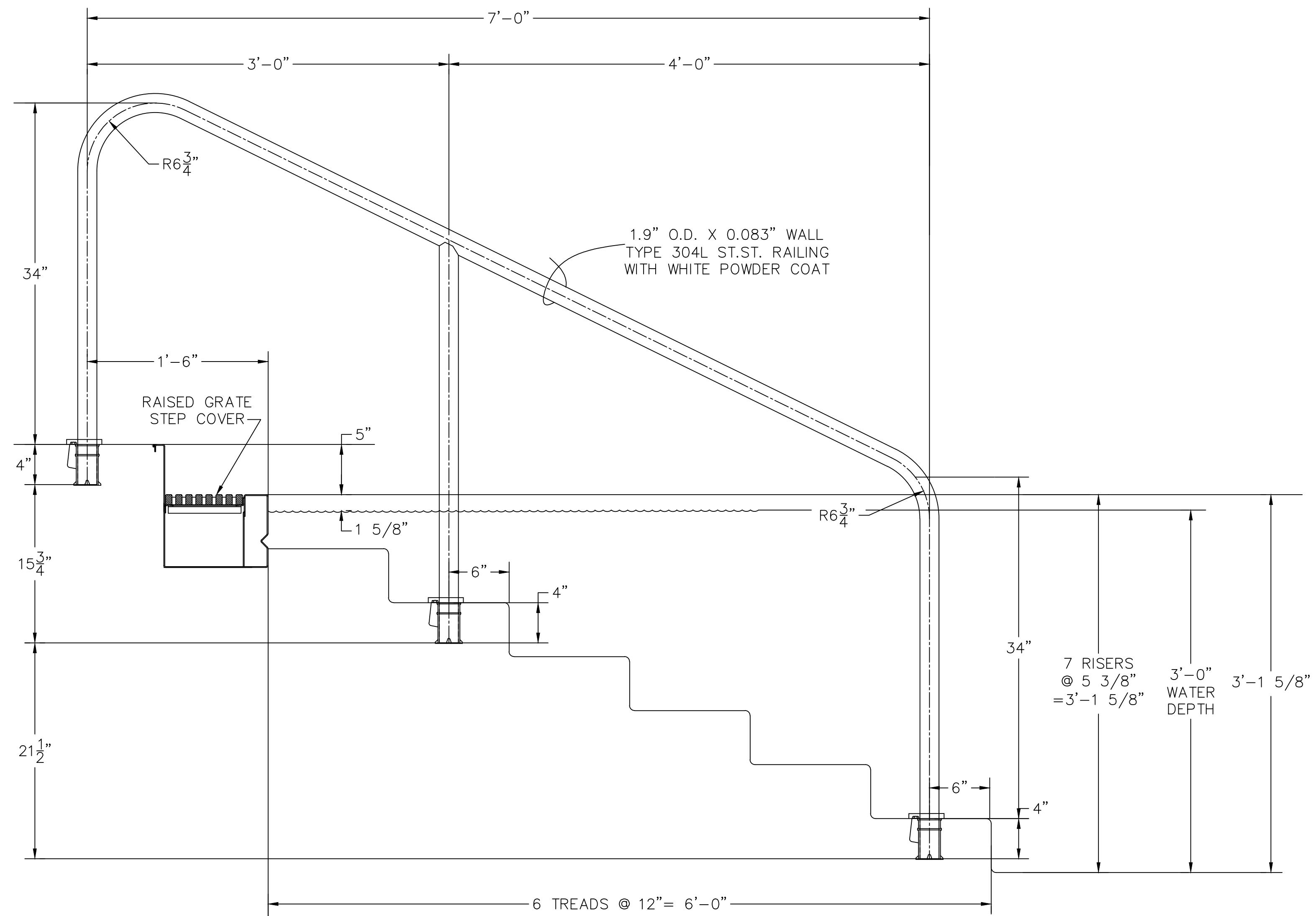
GENERAL NOTES:

1. PIPING: INTERCONNECTING PIPING BY INSTALLER TO BE SCH. 80 PVC; MAXIMUM VELOCITY LESS THAN 10 FT. PER SECOND. (DASHED LINES—NOT BY P.P.E.C.)
2. THICKNESS: THICKNESS' SHOWN ARE FOR 50 PSI WORKING PRESSURE. TEST PRESSURE = 65 PSI WITH A 4 TO 1 SAFETY FACTOR
3. EXTERIOR SURFACES TO BE COATED WITH BLUE PAD-COTE, AN NSF LISTED CHEMICALLY CURED SEMI-GLOSS EPOXY.
4. PREPARATION: SANDBLAST TO NEAR WHITE METAL, CLEAN WELDS, REMOVE WELD SPLATTER.
5. APPLICATION: BY SPRAY, BRUSH, OR ROLLER TO 6–8 MILS THICKNESS (DRY). CURE FOR 7 DAYS BEFORE PUTTING FILTER INTO SERVICE.
6. ALL NIPPLES AND COUPLINGS PENETRATING TANKS ARE 316L STAINLESS STEEL.
7. APPROXIMATE SHIPPING WEIGHT, (1) TANK W/INTERNAL = ±572#. APPROXIMATE OPERATING WEIGHT OF (1) FILTER = ±3,604#.
6. TANK WARRANTED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF (10) YEARS.
7. INSTALL MEDIA USING DEPTH DIMENSIONS.

Certified to
NSF/ANSI Standard 50

DO NOT SCALE DRAWING			
TOLERANCE UNLESS OTHERWISE NOTED			
X	.000		
1/8	1/32		
XX	.010		
XX	.000		
X	1/4"		
JOB NAME HIGH POINT UNIVERSITY- POOL			
LOCATION HIGH POINT, NC			
DRAWN	M.J.G	8-29-23	CUSTOMER PADDOCK CONSTRUCTION COMPANY, INC.
CHECKED			APPROVED
SCALE (UNLESS NOTED):	1" = 1'		PART NO.
MATERIAL	QTY.	D	REV.
316L	1	JOB NO. 32413.03	REV. 0
Dwg. No.		Dwg. No.	

REVISIONS		DATE	REV	DESCRIPTION	BY
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STAINLESS STEEL POOL HANDRAIL

SCALE: 1 1/2" = 1'-0"
(2 REQUIRED)

SUBMITTAL SHOP DRAWINGS		
FABRICATION CANNOT COMMENCE UNTIL WE RECEIVE APPROVED SHOP DRAWINGS		
SUBMITTAL DATE:		
DISPOSITION		BY
<input type="checkbox"/>	APPROVED AS SUBMITTED	
<input type="checkbox"/>	APPROVED AS CORRECTED	
<input type="checkbox"/>	NOT APPROVED-RESUBMIT	
<input type="checkbox"/>	TYPE 316L ST.ST.	

555 Paddock Parkway Rock Hill, SC 29730 Phone: (803) 324-1111 Fax: (803) 324-1116 info@paddockindustries.com		PADDOCK POOL EQUIPMENT COMPANY	
DO NOT SCALE DRAWING		DESCRIPTION: 1.90" O.D. X 0.083" WALL TYPE 304L ST.ST. WITH WHITE POWDER COAT 7'-0" LG. POOL HANDRAIL	
TOLERANCES: .020		TOLERANCES: .020	
X ± 1/16 X ± .020		X ± 1/32 X ± .010	
1/X ± 1/32 XXX ± .005		1/X ± 1/4" XXX ± .005	
DRAWN M.J.G. 8-30-23		JOB NAME: HIGH POINT UNIVERSITY	
CHECKED		LOCATION: HIGH POINT, N.C.	
APPROVED		SCALE (UNLESS NOTED): AS SPECIFIED	
MATERIAL: 304L ST.ST.	QTY: 2	W.O. # 23413.05	SIZE D PART NO. REV. 0
WHITE POWDER COAT		DWG. NO. 23413.05	

Paddock Pool Equipment Company

Gutter Flow Calculations

Project

High Point U- Spa- R200

Total Recirculation Rate, gpm

145

Pool Perimeter, feet

49.69

Average Gutter Width, inches

7.7755844

Usable Gutter Depth, inches

4.8125

Number of 90-degree corners

0

Number of 45-degree corners

0

Number of radiused corners

4

Number of PO Converters

1

Number of Return Converters

1

Supply tube area, square inches

15.61

Number of inlet nozzles

18

Max. tube pressure allowed, psi

7.5

Density of Fluid, lb_m/ft³

62.217 (Water at 80°F)

Local Gravity, ft/sec²

32.17

Absolute Viscosity (μ), lb_fsec/ft²

1.791E-05 (Water at 80°F)

Click on **Tools > Solver**, then press **Enter** twice

Total gutter system flow capacity is

871.80 gpm

Gutter collection rate is

78.95 gpm

Design for surge weirs is:

Adequate

Design for rimflow conditions is:

Superior

Flow rate per nozzle

8.06 gpm

Nozzle Size

7

Nozzle Velocity

17.19 ft/sec

Supply Tube Velocity

1.49 ft/sec

Supply Tube Pressure

7.19 psi

Surge Capacity in Flow Channel

90.03 gallons

Navier-Stokes Continuity Equation:

$$\left[1 - \left(\frac{\rho}{m} \right)^2 W^5 g \eta^3 \right] \partial \eta = \frac{f}{8} \partial \left(\frac{x}{W} \right)$$

Solving this equation for turbulent flow conditions with m as the unknown variable yields

$$D_1 m^2 + D_2 \sqrt[4]{m^7} + D_3 = 0$$

where ρ = density of the fluid, lb_m/ft²

m = mass flow rate, lb_m/sec

g = acceleration due to local gravity, ft/sec²

L = length of channel, ft

W = width of channel, ft

η = fluid height to width ratio

f = Darcy friction factor, $\frac{0.316}{\sqrt{R_e}}$

x = distance along centerline of channel

μ = absolute viscosity, lb_fsec/ft²

y = depth of fluid, ft

R_e = Reynold's Number, $\frac{4m}{\mu(2y+W)}$

Francis Weir Formula:

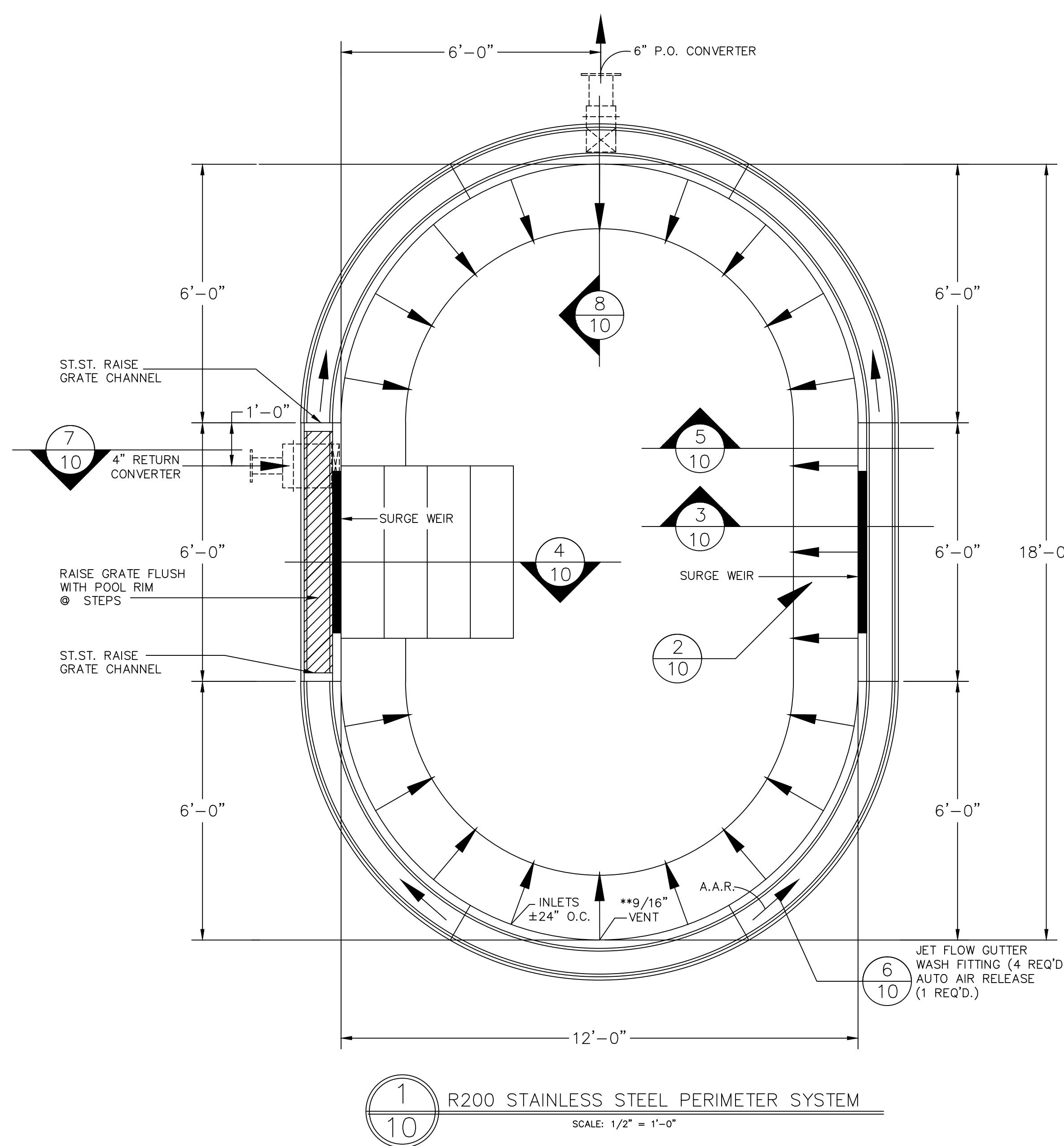
$$Q = 3.33 L \sqrt{H^3}$$

where

Q = flow rate, ft³/sec

L = length of weir, ft

H = height of water above crest of weir, ft

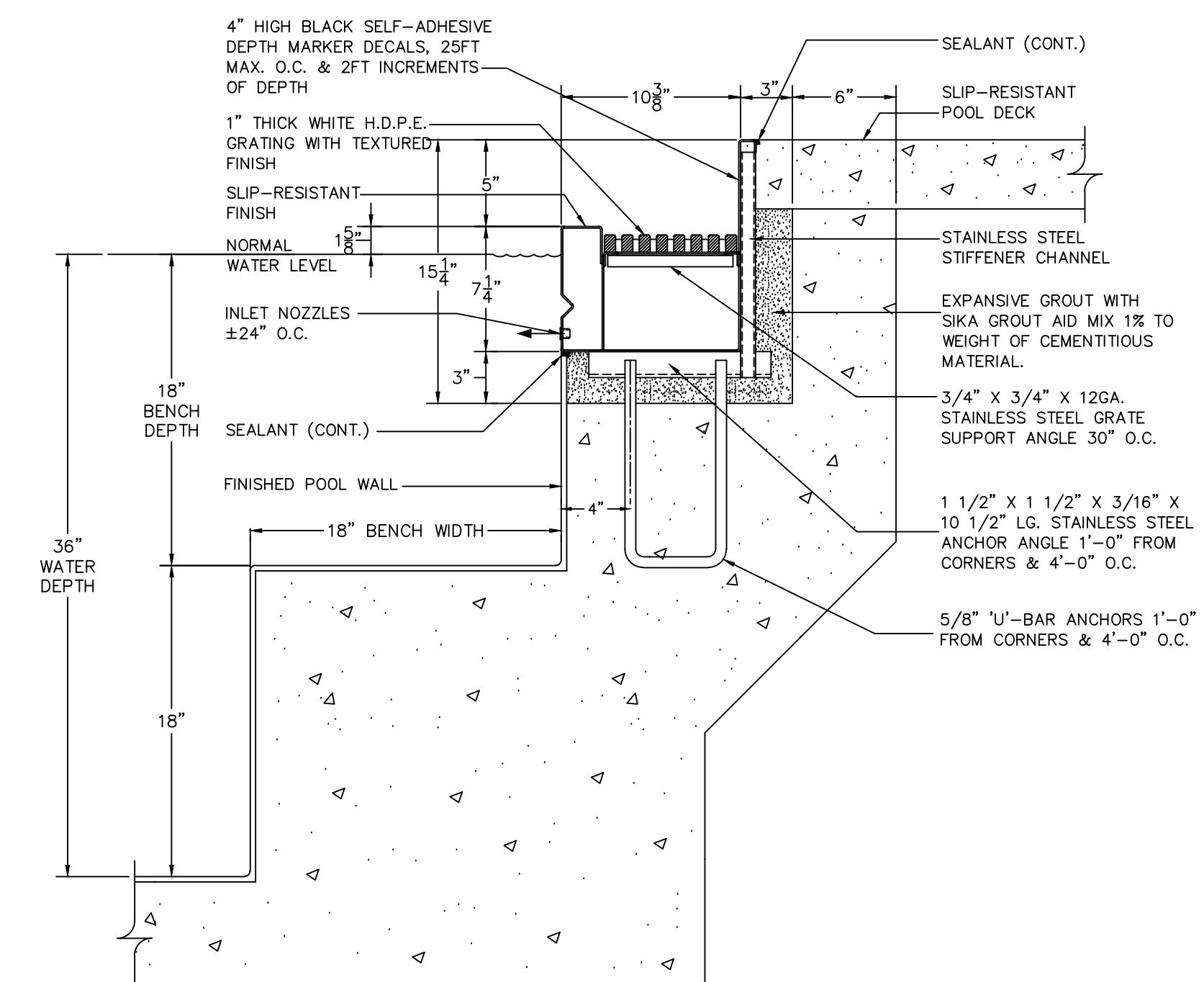
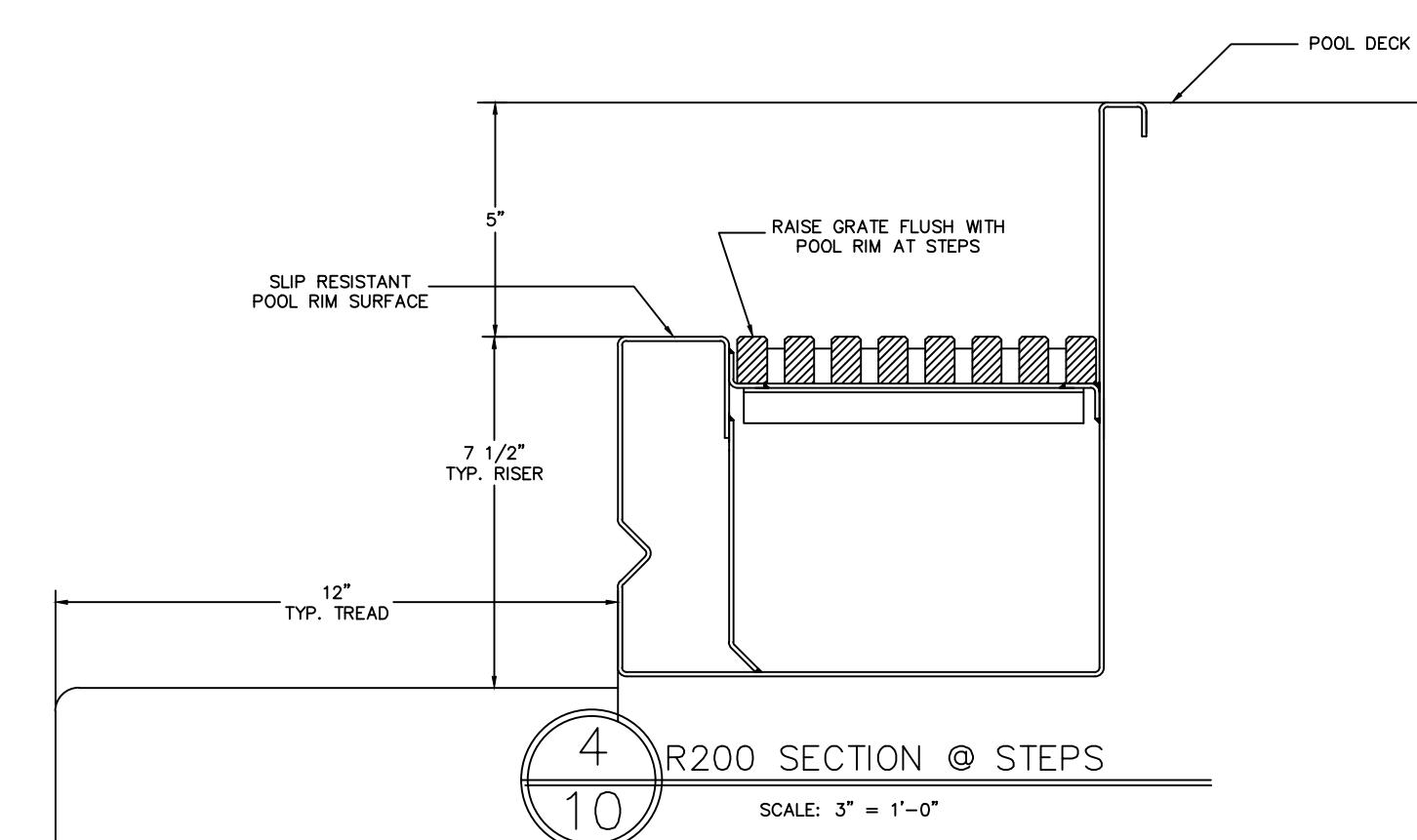
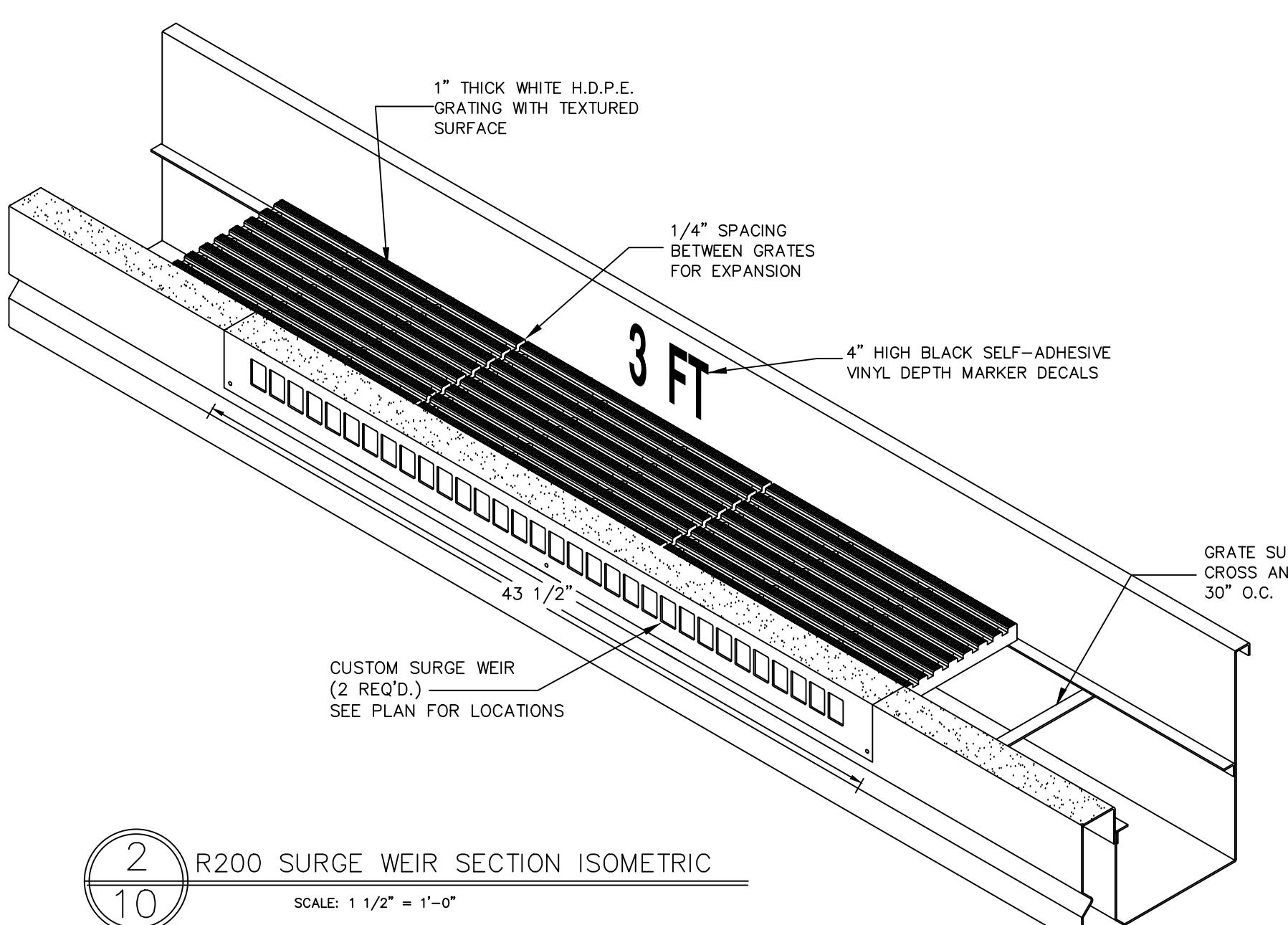


SPA DATA R200	
SPA PERIMETER	49'-8 3/8"
SPA AREA	185 SF
RECIRCULATION RATE	145 GPM
GUTTER SYSTEM FLOW CAPACITY	871.80 GPM
FLOW CHANNEL SURGE CAPACITY	90.03 GALS

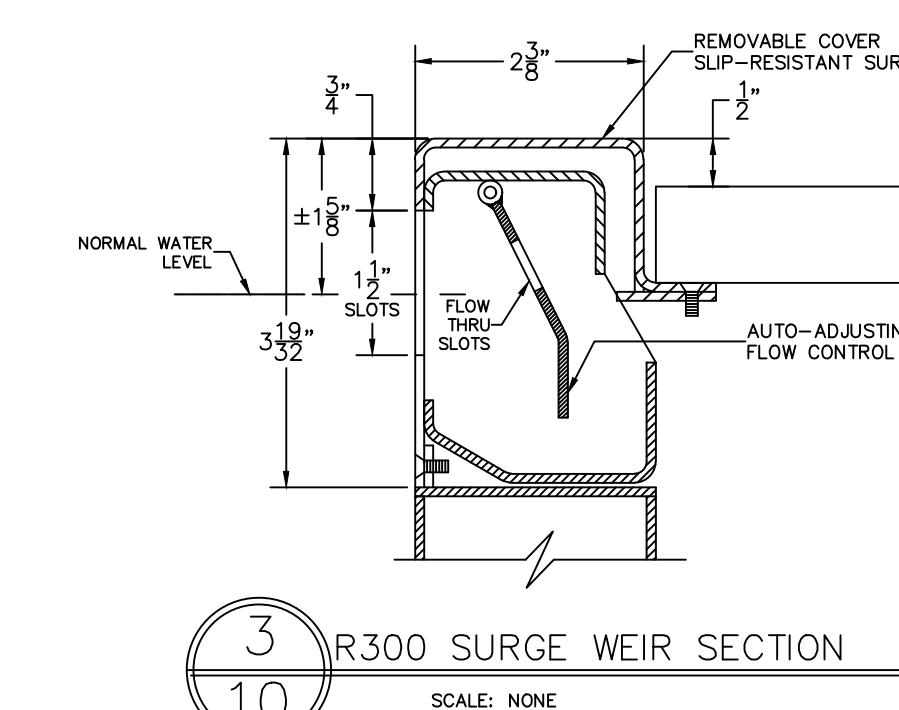
NOTE: (21) 7/16"Ø I.D. NOZZLES;
±24"O.C. @ 6.90 GPM EA.
FOR A TOTAL FLOW OF 145 GPM

DEPTH MARKER SCHEDULE (BLACK VINYL DECALS ON GUTTER)	
QTY	DEPTH
4	3 FT

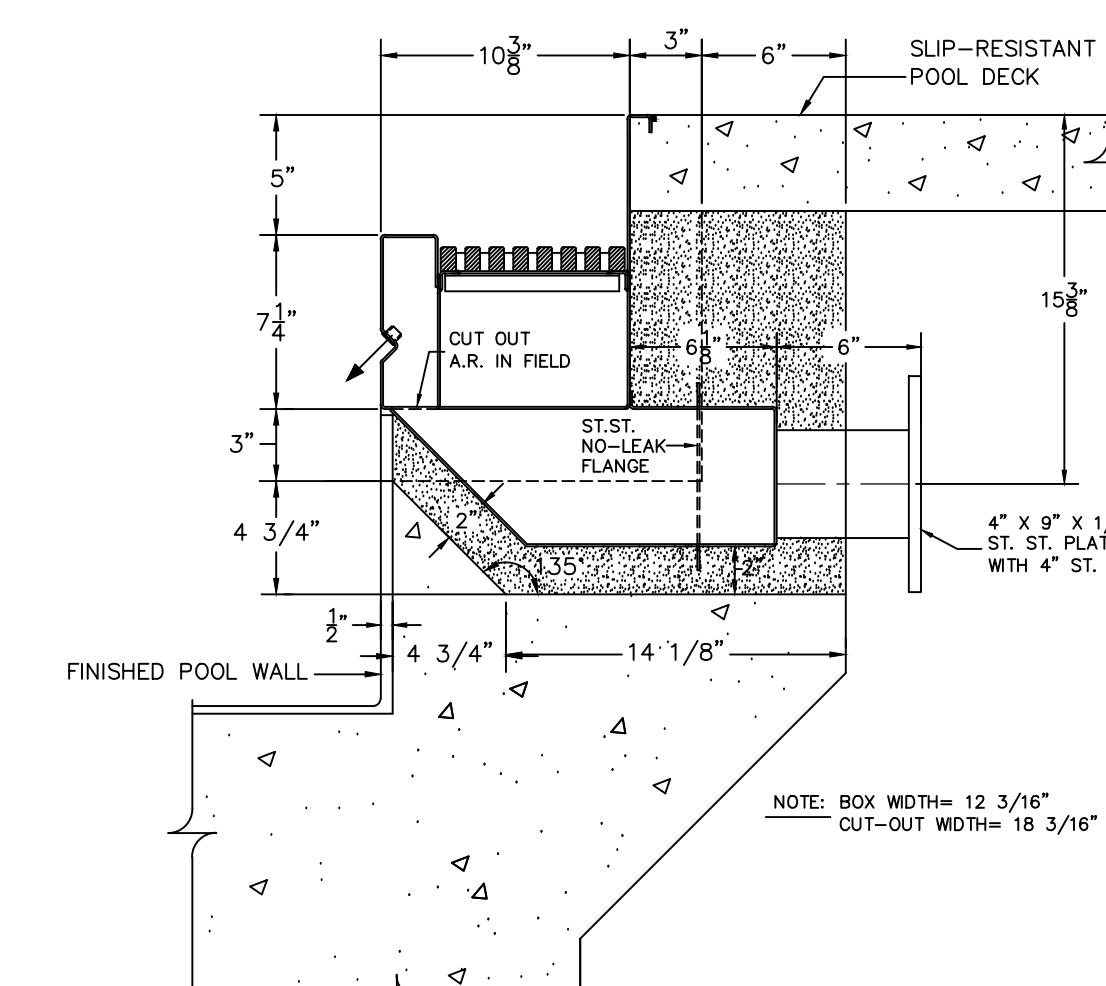
*NOTE: SHOP DRILL 35/64"Ø RET. TUBE VENT HOLE. LEAVE UNPLUGGED FOR AT LEAST TWO WEEKS TO ALLOW DEBRIS TO EXIT THE TUBE THEN PLUG WITH 9/16" DIA. PLUG.



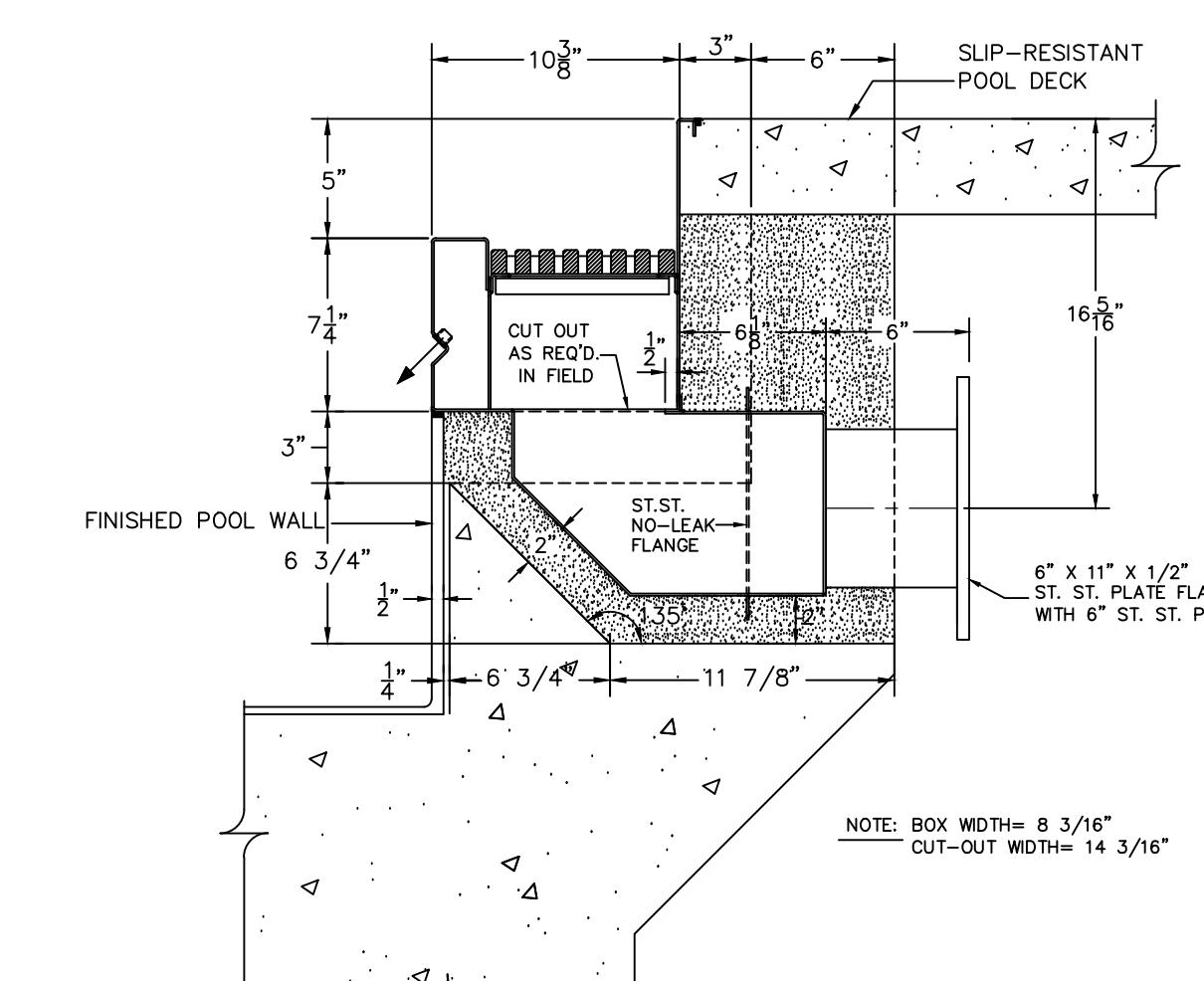
5
10 TYPICAL SPA WALL SECTION
TYPE 304L LOW CARBON STAINLESS STEEL R200 GUTTER SYSTEM
SCALE: 1 1/2" = 1'-0"



3
10 R300 SURGE WEIR SECTION
SCALE: NONE



7
10 RETURN CONVERTER SECTION
(1 REQUIRED)
SCALE: 1 1/2" = 1'-0"

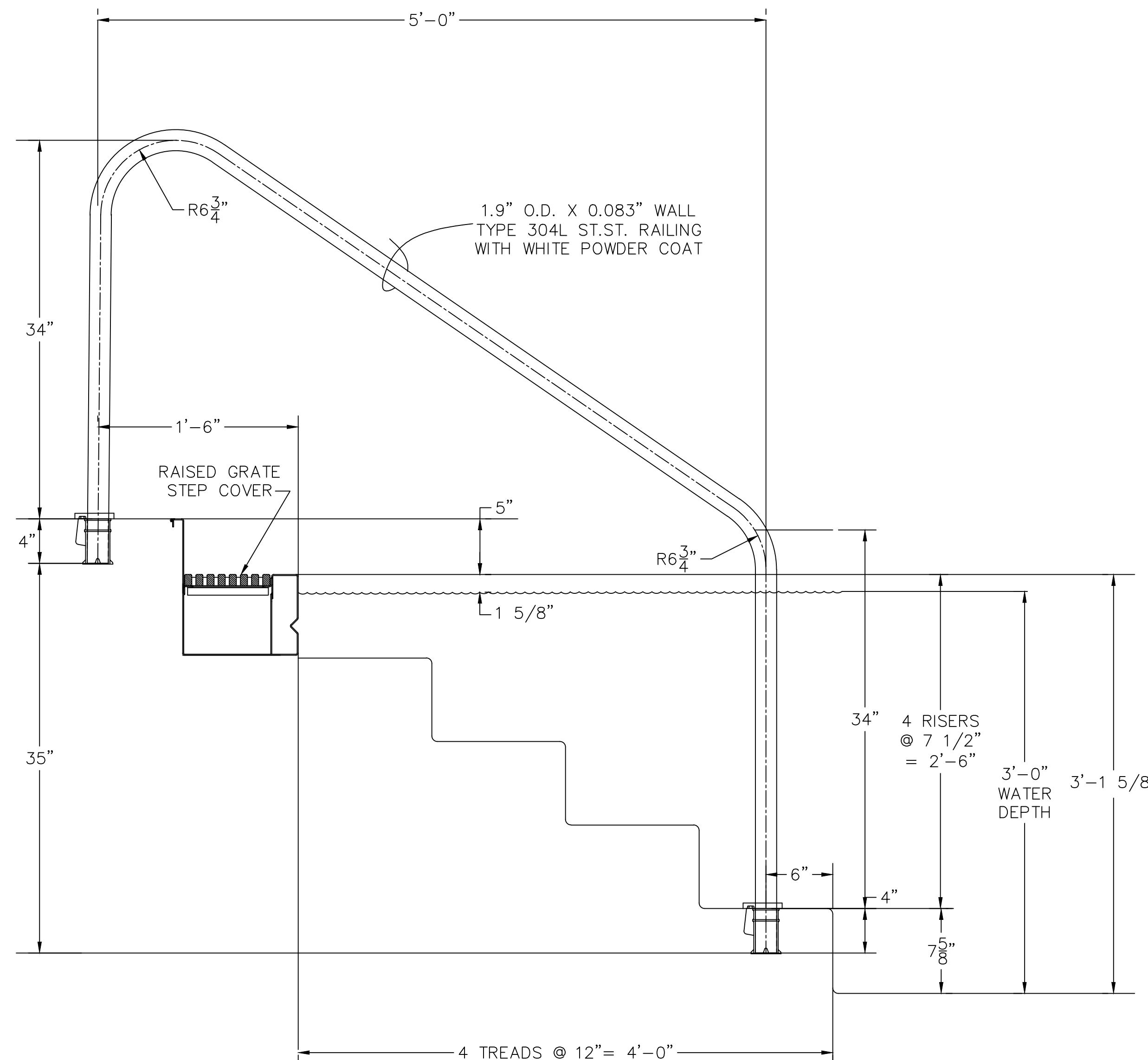


8
10 PERIMETER OVERFLOW CONVERTER SECTION
(1 REQUIRED)
SCALE: 1 1/2" = 1'-0"

	SUBMITTAL SHOP DRAWINGS		
FABRICATION CANNOT COMMENCE UNTIL WE RECEIVE APPROVED SHOP DRAWINGS			
SUBMITTAL DATE:			
DISPOSITION		BY	DATE
<input type="checkbox"/> APPROVED AS SUBMITTED			
<input type="checkbox"/> APPROVED AS CORRECTED			
<input type="checkbox"/> NOT APPROVED-RESUBMIT			
<input type="checkbox"/> TYPE 304L ST. ST.			
<input type="checkbox"/> WHITE HDPE GRATES			

555 Paddock Parkway Rock Hill, SC 29731 Phone: (803) 324-1111 Fax: (803) 324-1116 info@paddockindustries.com	DESCRIPTION R200 SPA PLAN, POOL WALL SECTIONS, CONVERTERS & EQUIPMENT DETAILS
DO NOT SCALE DRAWING TOLERANCES AND DIMENSIONS IN INCHES $x \pm 1/16$ $x \pm 1/32$ $x \pm 1/4$ $x \pm .005$	JOB NAME HIGH POINT UNIVERSITY
DRAWN M.J.G. 8-30-23	LOCATION HIGH POINT, N.C.
CHECKED	APPROVED
SCALE (UNLESS NOTED)	AS SPECIFIED
SIZE D	PART NO.
304L ST. ST.	W.O. #
QTY. 1	REV. 0
DWG. NO. 23413.10Sub 0	

REVISIONS		DATE		REV		DESCRIPTION		BY	
-----------	--	------	--	-----	--	-------------	--	----	--



STAINLESS STEEL SPA HANDRAIL

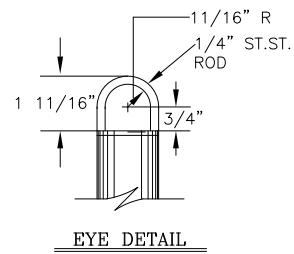
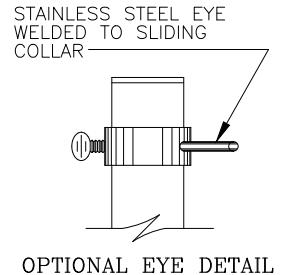
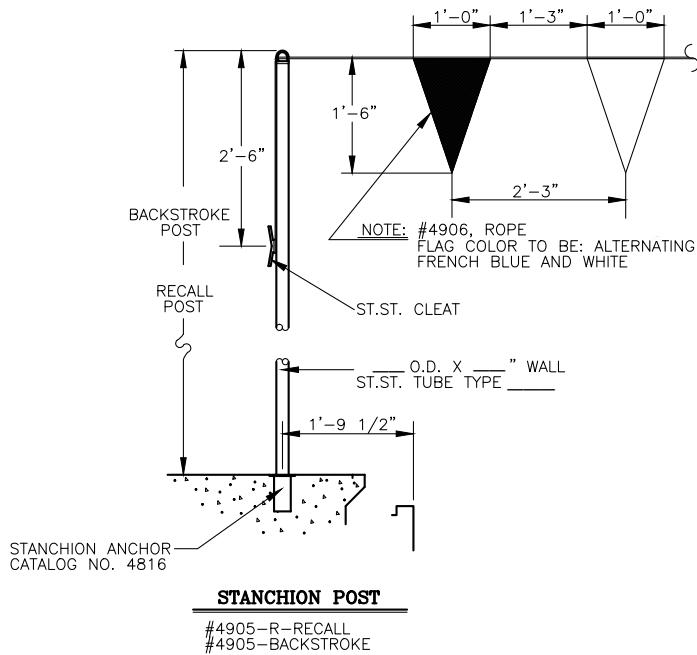
SCALE: 1 1/2" = 1'-0"
(2 REQUIRED)

SUBMITTAL SHOP DRAWINGS		
FABRICATION CANNOT COMMENCE UNTIL WE RECEIVE APPROVED SHOP DRAWINGS		
SUBMITTAL DATE:		
DISPOSITION		BY
<input type="checkbox"/>	APPROVED AS SUBMITTED	
<input type="checkbox"/>	APPROVED AS CORRECTED	
<input type="checkbox"/>	NOT APPROVED-RESUBMIT	
<input type="checkbox"/>	TYPE 316L ST.ST.	

555 Paddock Parkway Rock Hill, SC 29730 Phone: (803) 324-1111 Fax: (803) 324-1116 info@paddockindustries.com		DESCRIPTION 1.90" O.D. X 0.083" WALL TYPE 316L STAINLESS STEEL 5'-0" LG. SPA RAIL	
DO NOT SCALE DRAWING		TOLERANCES UNLESS OTHERWISE NOTED	
X ± 1/8		X ± .020	JOB NAME HIGH POINT UNIVERSITY
1/X ± 1/32		X ± .010	BY DATE
X ± 1/4"		XXX ± .005	LOCATION HIGH POINT, N.C.
DRAWN M.J.G.	B-30-23	CUSTOMER PADDOCK CONSTRUCTION CO., INC.	
CHECKED		SCALE (UNLESS NOTED)	
APPROVED		AS SPECIFIED	SIZE D PART NO.
MATERIAL: 304L ST.ST.	QTY. 2	W.O. # 23413.12 REV. 0	DWG. NO. 23413.12



Stanchion Post



Paddock's **Backstroke Posts and Recall Posts** are fabricated from Type 304 or 316L stainless steel tubing with outside diameter of 1.90" and standard wall thickness .083" (.120" and .145" are also available)

Each post is provided with an eyebolt at the top and a cleat for securing rope.

Posts are held by anchor sockets located in pool bottom and pool deck so they can be removed if necessary.

Standard height of backstroke post is 7 feet. Also available in other heights.

Standard height of recall post is 5 feet. Also available in other heights.

Sliding collar is optional.

P/N _____, Model 4905-_____, Backstroke Post Height Required 6 FT 1.9" OD x .083" Wall Type 304 Qty 4

P/N _____, Model 4905R-_____, Recall Post Height Required _____ FT _____" OD x _____" Wall Type _____ Qty _____

P/N 9500043, Model 4905SC, Sliding Collar with Eyebolt Qty _____

P/N _____, Model 4906, Backstroke Pennant Line, 48 Nylon Pennants per 100' Line Qty _____

DECK EQUIPMENT

Escutcheon

4
8
3
7



The polished stainless steel round 1.90" escutcheon plates are used with mounting anchors.

Note: 4 1/2" diameter

PN 200058

Submittal Information:

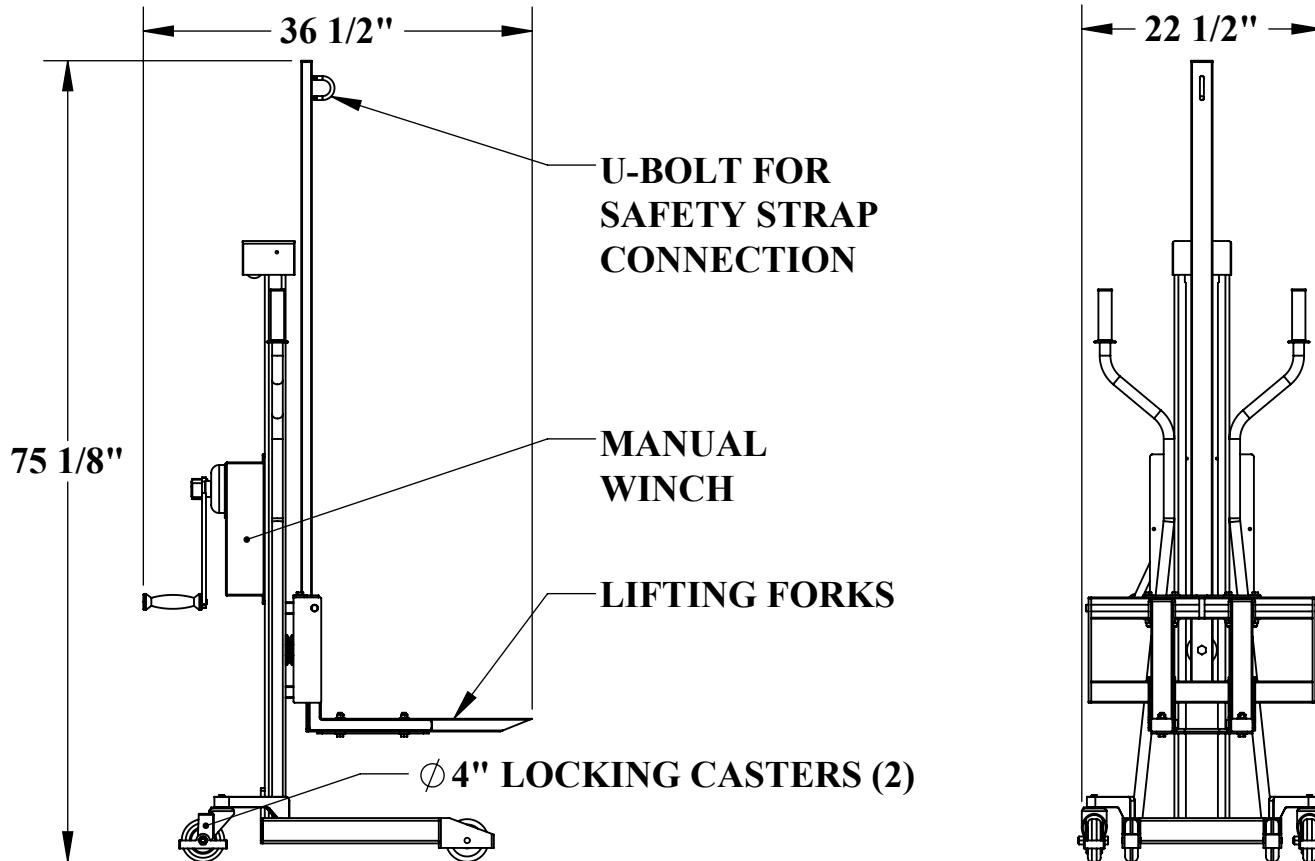
QTY: 10 for Pool
QTY: 4 for Spa

Additional Information



555 Paddock Parkway
Rock Hill, SC 29730
Ph: 803-324-1111
Fx: 803-324-1116

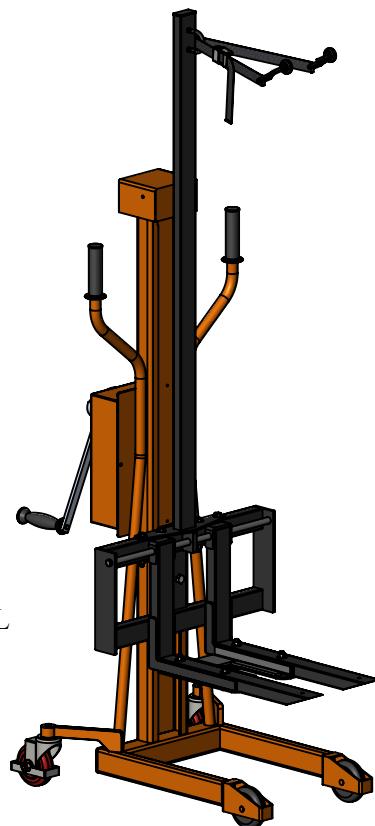
MIGHTY TRANSPORT CART



SPECIFICATIONS:

THE AQUA CREEK MIGHTY TRANSPORT CART SHALL BE A MANUAL WINCH POWERED TRANSPORT CART WITH CAPTURE BARS DESIGNED TO BE USED IN THE SAFE REMOVAL AND TRANSPORT OF THE MIGHTY LIFT. THE CART SHALL BE EASILY OPERABLE BY ONE PERSON, AND SHALL HOLD THE MIGHTY LIFT SECURELY AND STEADILY FOR TRANSPORT AND STORAGE. IT SHALL BE CONSTRUCTED PRIMARILY OF POWDER COATED STEEL AND STAINLESS STEEL, AND SHALL INCLUDE 4" LOCKING CASTERS.

MAIN ASSEMBLY:	POWDER COATED CARBON STEEL
MAST FORK ASSEMBLY:	POWDER COATED 304L STAINLESS STEEL
CASTERS:	4" LOCKING POLYOLEFIN
FRONT WHEELS:	3.5" POLYETHYLENE
WARRANTY:	1 YEAR LIMITED



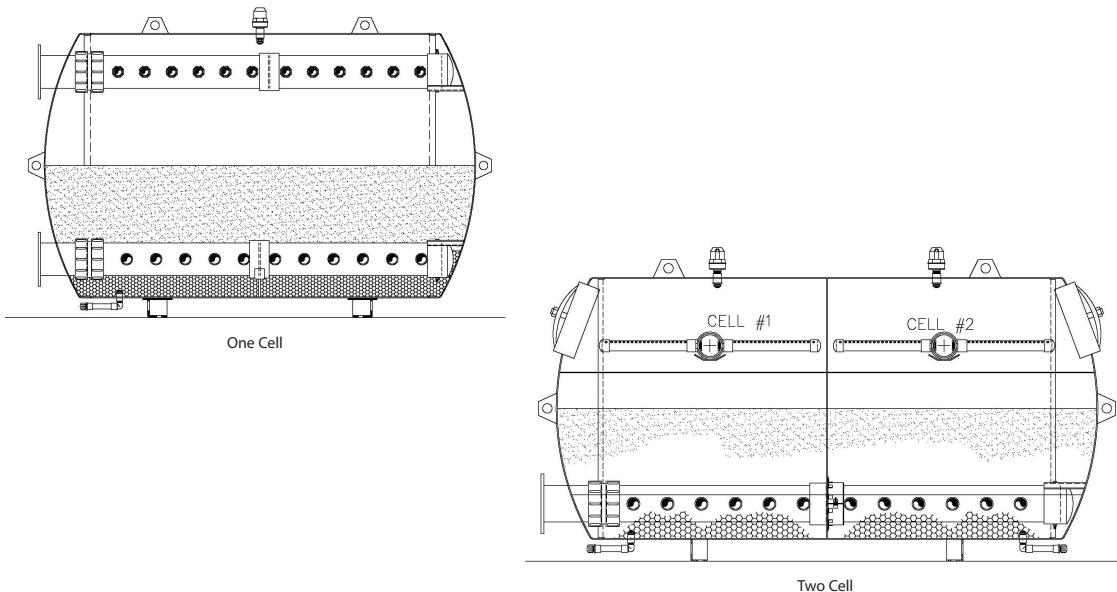
9889 GARRYMORE LANE
MISSOULA, MT 59808
(406) 549-0769
FAX (406) 549-2602

NOTE:
*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

PRODUCT:	TRANSPORT CART	
PART #:	F-MTTC	
SCALE:	1:18	DATE: 11/25/2019
DRAWN BY:	KR	REVISION: A



Stainless Steel Horizontal Filter



Paddock's **stainless steel horizontal pressure sand filters** are designed to save on space and cost without comprising performance, durability, or ease of operation. Each tank is NSF listed and manufactured from Type 316L stainless steel, a material which is specially fashioned to offer superior protection against corrosion in chloride environments. The result is a product that is virtually indestructible and perfectly suited to commercial swimming applications, insuring many years of reliable service.

Dual Cell features two filtration cells in a single tank; backwash one cell at a time. This will reduce backwash rate by 50% and reduce size of backwash waste line.

Standard Features

- § Type 316L stainless steel construction
- § Non-corrosive internals
- § All models are NSF listed

Options

- § 36" to 96" diameters
- § From four to twelve feet body lengths
- § Dual cell
- § ASME code and labeled filters
- § Automatic control



Stainless Steel Horizontal Filters

QTY: 1

Available in 1-Cell or 2-Cell

2-Cell features two filtration cells in a single tank, backwash one cell at a time

Shell Length	4'	5'	6'	7'	8'	9'	10'	11'	12'	
36"	MODEL#	6723-H-4	6723-H-5	6723-H-6	6723-H-7	6723-H-8	6723-H-9	6723-H-10	6723-H-11	6723-H-12
	AREA	14	17	20	23	26	29	32	35	38
	FLOW@15	210	255	300	345	390	435	480	525	570
	PIPE SIZE	4	4	4	4	6	6	6	6	6
42"	MODEL#	6724-H-4	6724-H-5	6724-H-6	6724-H-7	6724-H-8	6724-H-9	6724-H-10	6724-H-11	6724-H-12
	AREA	16.5	20	23.5	27	30.5	34	37.5	41	44.5
	FLOW@15	248	300	353	406	458	510	563	615	668
	PIPE SIZE	4	4	4	6	6	6	6	6	6
48"	MODEL#	6725-H-4	6725-H-5	6725-H-6	6725-H-7	6725-H-8	6725-H-9	6725-H-10	6725-H-11	6725-H-12
	AREA	19.15	23.15	27.15	31.15	35.15	39.15	43.15	47.15	51.15
	FLOW@15	287	347	407	467	527	587	647	707	767
	PIPE SIZE	4	4	6	6	6	6	6	6	6
54"	MODEL#	6726-H-4	6726-H-5	6726-H-6	6726-H-7	6726-H-8	6726-H-9	6726-H-10	6726-H-11	6726-H-12
	AREA	22	26.5	31	35.5	40	44.5	49	53.5	58
	FLOW@15	330	397	465	533	600	668	735	803	870
	PIPE SIZE	4	4	6	6	6	6	6	6	8
60"	MODEL#	6727-H-4	6727-H-5	6727-H-6	6727-H-7	6727-H-8	6727-H-9	6727-H-10	6727-H-11	6727-H-12
	AREA	24.87	29.87	34.87	39.87	44.87	49.87	54.87	59.87	64.87
	FLOW@15	373	448	523	598	673	748	823	898	973
	PIPE SIZE	6	6	6	6	6	6	8	8	8
66"	MODEL#	6728-H-4	6728-H-5	6728-H-6	6728-H-7	6728-H-8	6728-H-9	6728-H-10	6728-H-11	6728-H-12
	AREA	27.83	33.33	38.83	44.33	49.83	55.33	60.83	66.33	71.83
	FLOW@15	417	500	582	665	747	830	912	995	1077
	PIPE SIZE	6	6	6	6	6	8	8	8	8
72"	MODEL#	6729-H-4	6729-H-5	6729-H-6	6729-H-7	6729-H-8	6729-H-9	6729-H-10	6729-H-11	6729-H-12
	AREA	31	37	43	49	55	61	67	73	79
	FLOW@15	465	555	645	735	825	915	1005	1095	1185
	PIPE SIZE	6	6	6	6	8	8	8	8	8
78"	MODEL#	6730-H-4	6730-H-5	6730-H-6	6730-H-7	6730-H-8	6730-H-9	6730-H-10	6730-H-11	6730-H-12
	AREA	34.19	40.69	47.19	53.69	60.19	66.69	73.19	79.69	86.19
	FLOW@15	513	610	708	805	903	1000	1098	1195	1293
	PIPE SIZE	6	6	6	6	8	8	8	8	8
84"	MODEL#	6731-H-4	6731-H-5	6731-H-6	6731-H-7	6731-H-8	6731-H-9	6731-H-10	6731-H-11	6731-H-12
	AREA	37.42	44.42	51.42	58.42	65.42	72.42	79.42	86.42	93.42
	FLOW@15	561	666	771	876	981	1086	1191	1296	1401
	PIPE SIZE	6	6	6	8	8	8	8	8	8
90"	MODEL#	6732-H-4	6732-H-5	6732-H-6	6732-H-7	6732-H-8	6732-H-9	6732-H-10	6732-H-11	6732-H-12
	AREA	40.8	48.6	55.8	63.3	70.8	78.3	85.8	93.3	100.8
	FLOW@15	612	729	837	950	1062	1175	1287	1400	1512
	PIPE SIZE	6	6	8	8	8	8	8	8	10
96"	MODEL#	6733-H-4	6733-H-5	6733-H-6	6733-H-7	6733-H-8	6733-H-9	6733-H-10	6733-H-11	6733-H-12
	AREA	44.25	52.24	60.25	68.25	76.25	84.25	92.25	100.25	108.25
	FLOW@15	664	787	904	1024	1144	1264	1384	1504	1624
	PIPE SIZE	6	6	8	8	8	8	8	10	10

800-849-2729

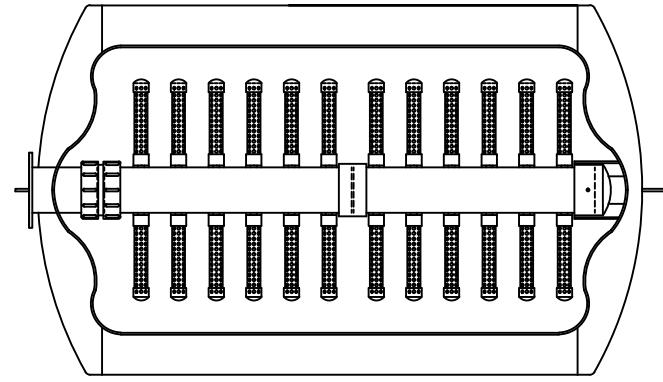
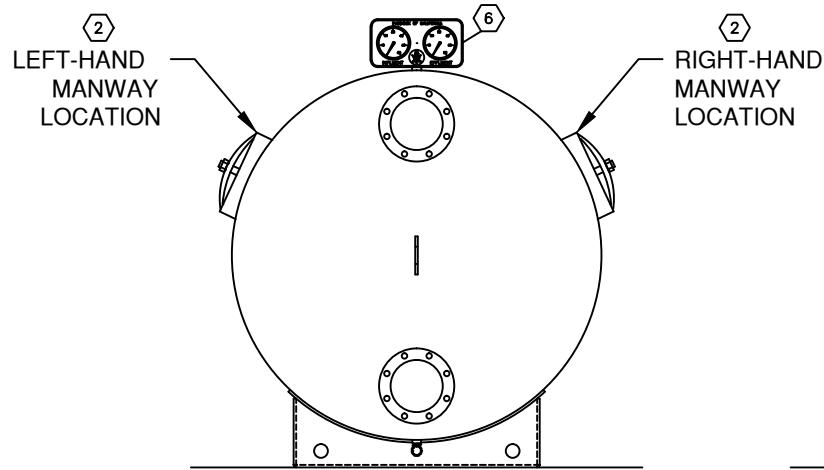
555 Paddock Parkway Rock Hill, SC 29730

www.paddockindustries.com

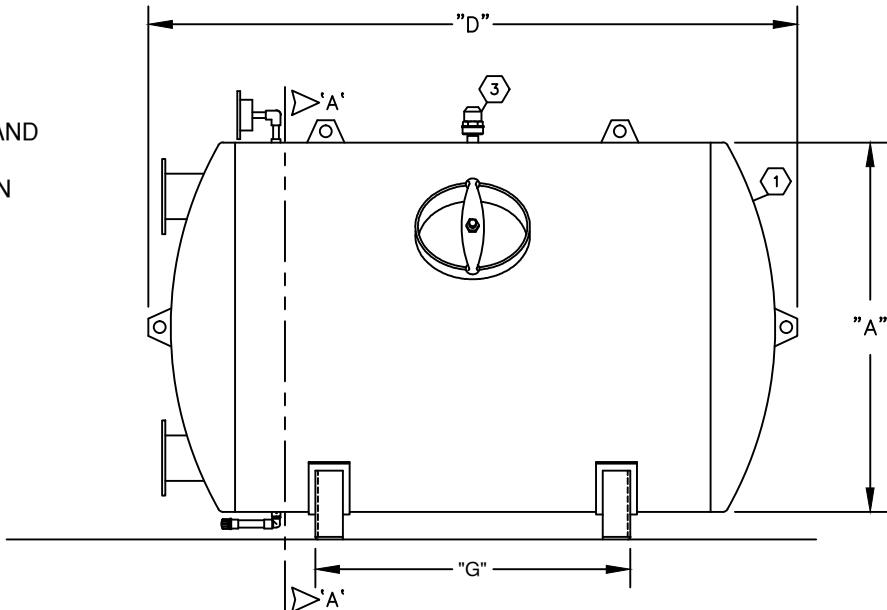
ITEM	DESCRIPTION
1	TANK
2	14" X 18" MANWAY ASSEMBLY (ONE PROVIDED, SPECIFY LOCATION)
3	AIR RELEASE VALVE
4	OVERDRAIN HEADER W/ LATERALS
5	UNDERDRAIN HEADER W/ LATERALS
6	#5840 GAUGE PANEL
7	FILTER SAND (.45 TO .55mm) UNIFORMITY COEFFICIENT NOT TO EXCEED 1.60
8	1/16 TO 1/8 GRAVEL MEDIA

GENERAL NOTES:

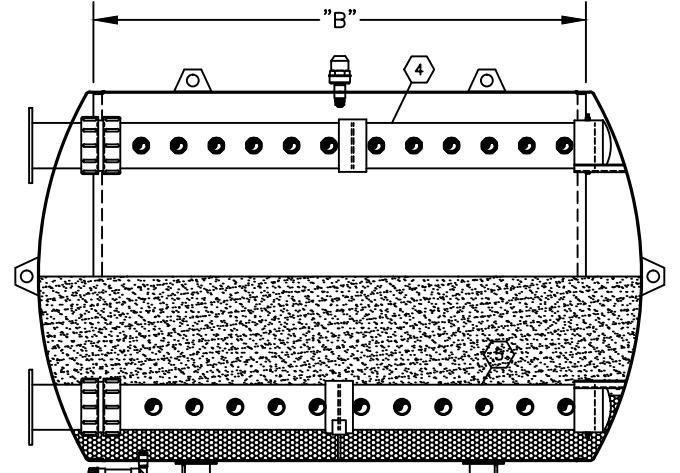
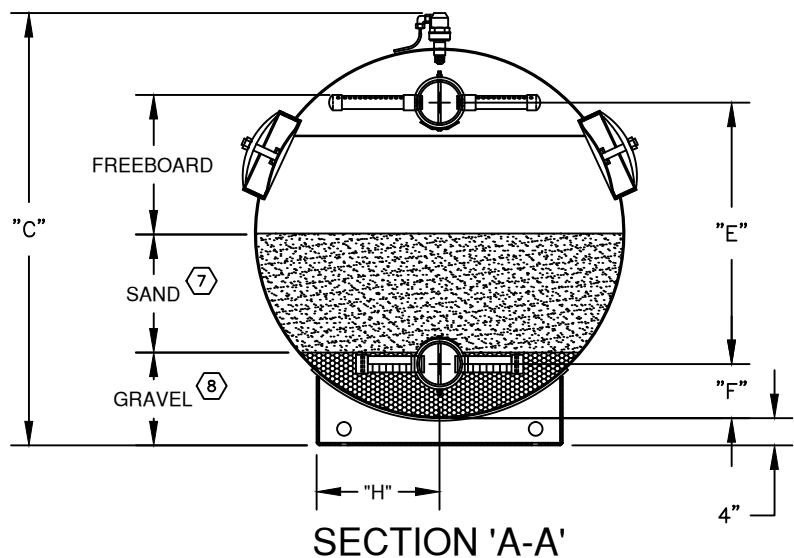
1. TANK MATERIAL-316L STAINLESS STEEL
2. EXTERIOR SURFACES TO BE COATED WITH BLUE PAD-COTE, AN NSF LISTED CHEMICALLY CURED SEMI-GLOSS EPOXY.
3. INTERCONNECTING PIPING-SCH. 80 PVC, MAX. VELOCITY LESS THAN 10 FPS.
4. FILTER WORKING PRESSURE IS 50 PSI. TEST PRESSURE IS 65 PSI.
5. TANK WARRANTED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP PER SPECIFICATIONS.



PLAN VIEW W/CUT-OUT
OF LATERAL LAYOUT



4 Manual Control Valves with Linkage



SECTION 'A-A'

CENTERLINE SECTION

FILTER & BACK-WASH RATE	FILTER & BACKWASH RATE UNITS IS GALLONS PER MINUTE, BASED ON 15 GPM/SQ FT OF FILTER AREA. FILTER AREA IS SQUARE FEET. PLUMBING SIZE IS NOMINAL NPT PIPE.												PLUMBING SIZE	
	DIM. "A"	DIM. "B"	FILTER AREA	CATALOG NUMBER	DIM. "C"	DIM. "D"	DIM. "E"	DIM. "F"	DIM. "G"	DIM. "H"	MEDIA	SAND CU. FT.	GRAVEL CU. FT.	
SAND CU. FT.	GRAVEL CU. FT.													
210	3'	4'	14	6723-H-4-1C	47.50"	59.50"	20.75"	7.00"	29.50"	12.00"	11	3.8	4"	
248	3.5'	4'	16.5	6724-H-4-1C	53.50"	61.00"	28.00"	6.50"	30.50"	14.00"	16.2	4.7	4"	
255	3'	5'	17	6723-H-5-1C	47.50"	71.50"	20.75"	7.00"	35.50"	12.00"	13.4	4.7	4"	
287	4'	4'	19.15	6725-H-4-1C	59.50"	62.75"	35.00"	6.50"	31.00"	16.00"	22.9	5.1	4"	
300	3.5'	5'	20	6724-H-5-1C	53.50"	73.00"	28.00"	6.50"	36.50"	14.00"	19.6	5.7	4"	
300	3'	6'	20	6723-H-6-1C	47.50"	83.50"	20.75"	7.00"	41.50"	12.00"	15.8	5.7	4"	
345	3'	7'	23	6723-H-7-1C	47.50"	95.50"	20.75"	7.00"	47.50"	12.00"	17.2	7.3	4"	
347	4'	5'	23.15	6725-H-5-1C	59.50"	74.75"	35.00"	6.50"	37.00"	16.00"	27.5	6	4"	
353	3.5'	6'	23.5	6724-H-6-1C	53.50"	85.00"	28.00"	6.50"	42.50"	14.00"	23.1	6.8	6"	
390	3'	8'	26	6723-H-8-1C	47.50"	107.50"	20.75"	7.00"	53.50"	12.00"	18.5	8.9	6"	
397	4.5"	5'	26.5	6726-H-5-1C	65.50"	76.38"	38.25"	6.75"	38.00"	18.00"	34.9	9.1	6"	
406	3.5'	7'	27	6724-H-7-1C	53.50"	97.00"	28.00"	6.50"	48.50"	14.00"	26.4	7.5	6"	
407	4'	6'	27.15	6725-H-6-1C	59.50"	86.75"	35.00"	6.50"	43.00"	16.00"	32.2	6.9	6"	
435	3'	9'	29	6723-H-9-1C	47.50"	119.50"	20.75"	7.00"	59.50"	12.00"	20.7	9.6	6"	
448	5'	5'	29.87	6727-H-5-1C	71.50"	78.00"	38.25"	10.88"	39.00"	20.00"	39.2	14.4	6"	
458	3.5'	8'	30.5	6724-H-8-1C	53.50"	109.00"	28.00"	6.50"	54.50"	14.00"	29.6	8.2	6"	
465	4.5"	6'	31	6726-H-6-1C	65.50"	88.38"	38.25"	6.75"	44.00"	18.00"	40.8	10.5	6"	
467	4'	7'	31.15	6725-H-7-1C	59.50"	98.75"	35.00"	6.50"	49.00"	16.00"	37	8.4	6"	
480	3'	10'	32	6723-H-10-1C	47.50"	131.50"	20.75"	7.00"	65.50"	12.00"	22.8	10.2	6"	
510	3'-6"	9'	34	6724-H-9-1C	53.50"	129.18"	28.00"	6.50"	60.50"	14.00"	33	9.8	6"	
523	5'	6'	34.87	6727-H-6-1C	71.50"	99.95"	38.25"	10.88"	45.00"	20.00"	45.9	17	6"	
525	3'	11'	35	6723-H-11-1C	47.50"	151.58"	20.75"	7.00"	71.50"	12.00"	25	10.9	6"	
527	4'	8'	35.15	6725-H-8-1C	59.50"	120.78"	35.00"	6.50"	55.00"	16.00"	41.8	9.8	6"	
533	4'-6"	7'	35.5	6726-H-7-1C	65.50"	110.36"	38.25"	6.75"	50.00"	18.00"	46.8	12.2	6"	
563	3'-6"	10'	37.5	6724-H-10-1C	53.50"	141.18"	28.00"	6.50"	66.50"	14.00"	36.4	11.4	6"	

QTY: 1

DWG. NO. XXXXX
SHEET 1 OF 1
REV. 3
90/7/1

DESCRIPTION
1-CELL HORIZONTAL FILTER, 210-563 GPM FILTER RATE

JOB NAME & LOCATION

CUSTOMER

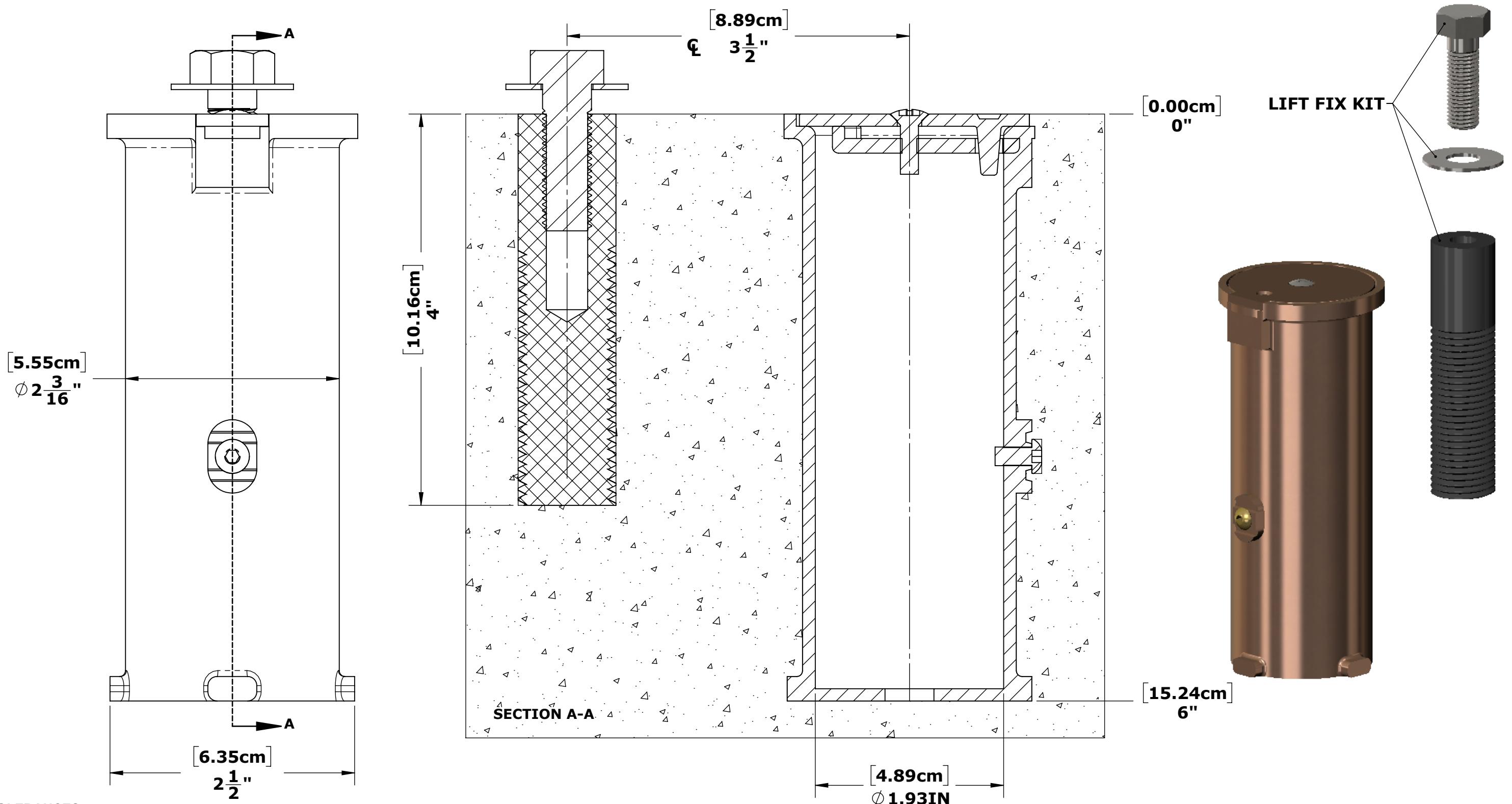


PADDOCK
POOL EQUIPMENT COMPANY

PO Box 11676 email@paddockpool.com (800)849-2729
Rock Hill, SC 29731-1676 Fax:(803)324-1116

SALES DRAWING

DISPOSITION	BY	DATE
APPROVED AS SUBMITTED		
APPROVED AS MODIFIED		
NOT APPROVED -- RESUBMIT		



ANCHOR - 1.90"X6.00" - W/KIT

F-808SA
PART NO. INV01494

MATERIAL: BRONZE
FINISH: N/A

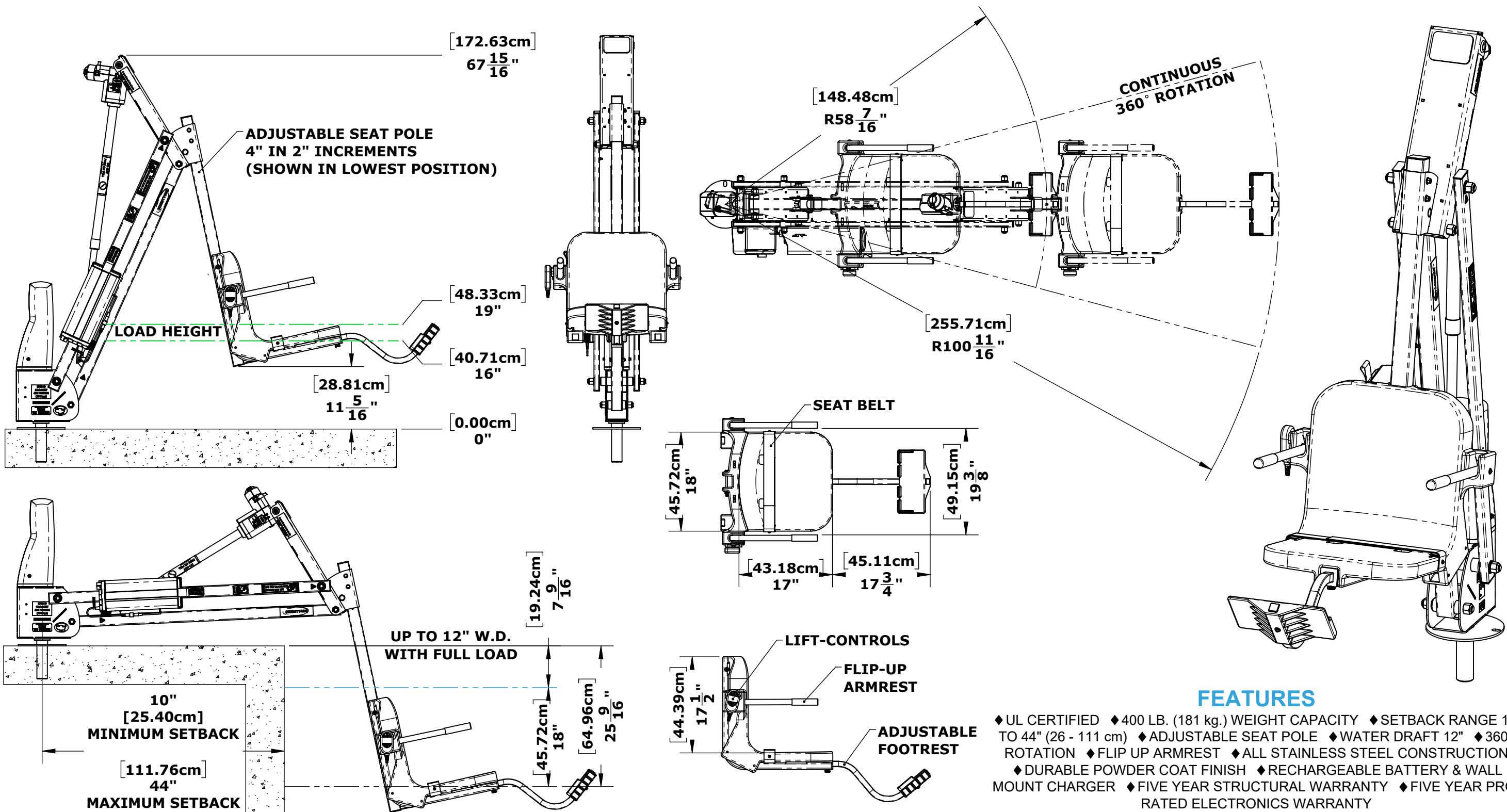
APPROX. WEIGHT: 2.19 LBS.

PROPRIETARY AND CONFIDENTIAL INFORMATION

THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN
IS THE SOLE PROPERTY OF AQUA CREEK PRODUCTS LLC. ANY
REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN
PERMISSION FROM AQUA CREEK IS PROHIBITED.

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
P1	INITIAL RELEASE	6/22/2021	J.MAXWELL



- FEATURES**
- ◆ UL CERTIFIED
 - ◆ 400 LB. (181 kg.) WEIGHT CAPACITY
 - ◆ SETBACK RANGE 10" TO 44" (26 - 111 cm)
 - ◆ ADJUSTABLE SEAT POLE
 - ◆ WATER DRAFT 12"
 - ◆ 360° ROTATION
 - ◆ FLIP UP ARMREST
 - ◆ ALL STAINLESS STEEL CONSTRUCTION
 - ◆ DURABLE POWDER COAT FINISH
 - ◆ RECHARGEABLE BATTERY & WALL MOUNT CHARGER
 - ◆ FIVE YEAR STRUCTURAL WARRANTY
 - ◆ FIVE YEAR PRO-RATED ELECTRONICS WARRANTY

CLICK HERE TO VIEW THIS PRODUCT:
<https://aquacreekproducts.com/>

MATERIAL: 304 STAINLESS STEEL
FINISH: POWDER COAT - WHITE
APPROX. WEIGHT: 180.23 LBS.

TOLERANCES

DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE SHOWN

FRACTIONAL: ±1/16

ANGULAR: ±1°

TWO PLACE DECIMAL: ±.01

THREE PLACE DECIMAL: .. ±.005

MIGHTY 400 - BLUE

F-MTY400
PART NO. INV01698

PROPERTY AND CONFIDENTIAL INFORMATION

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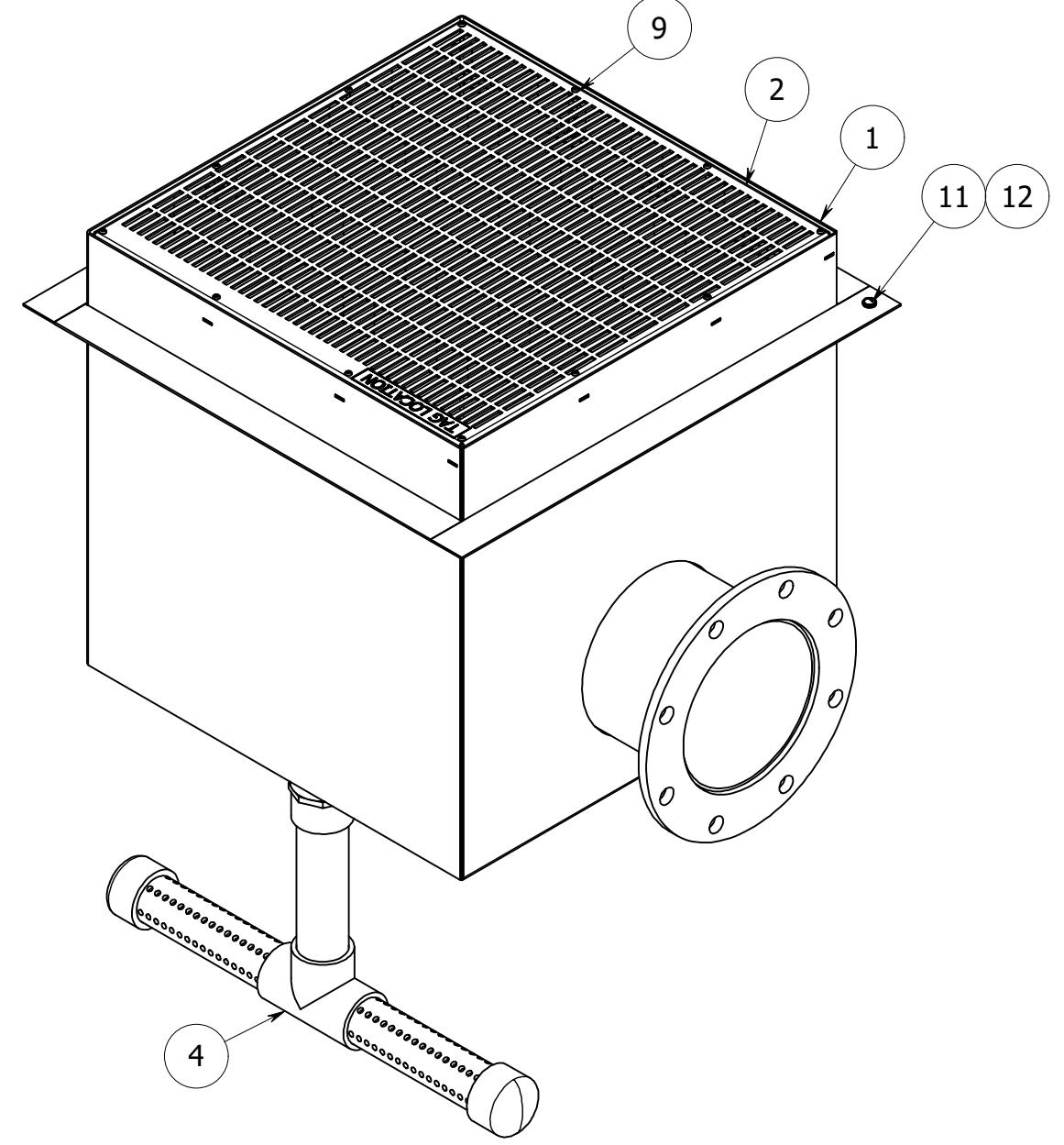
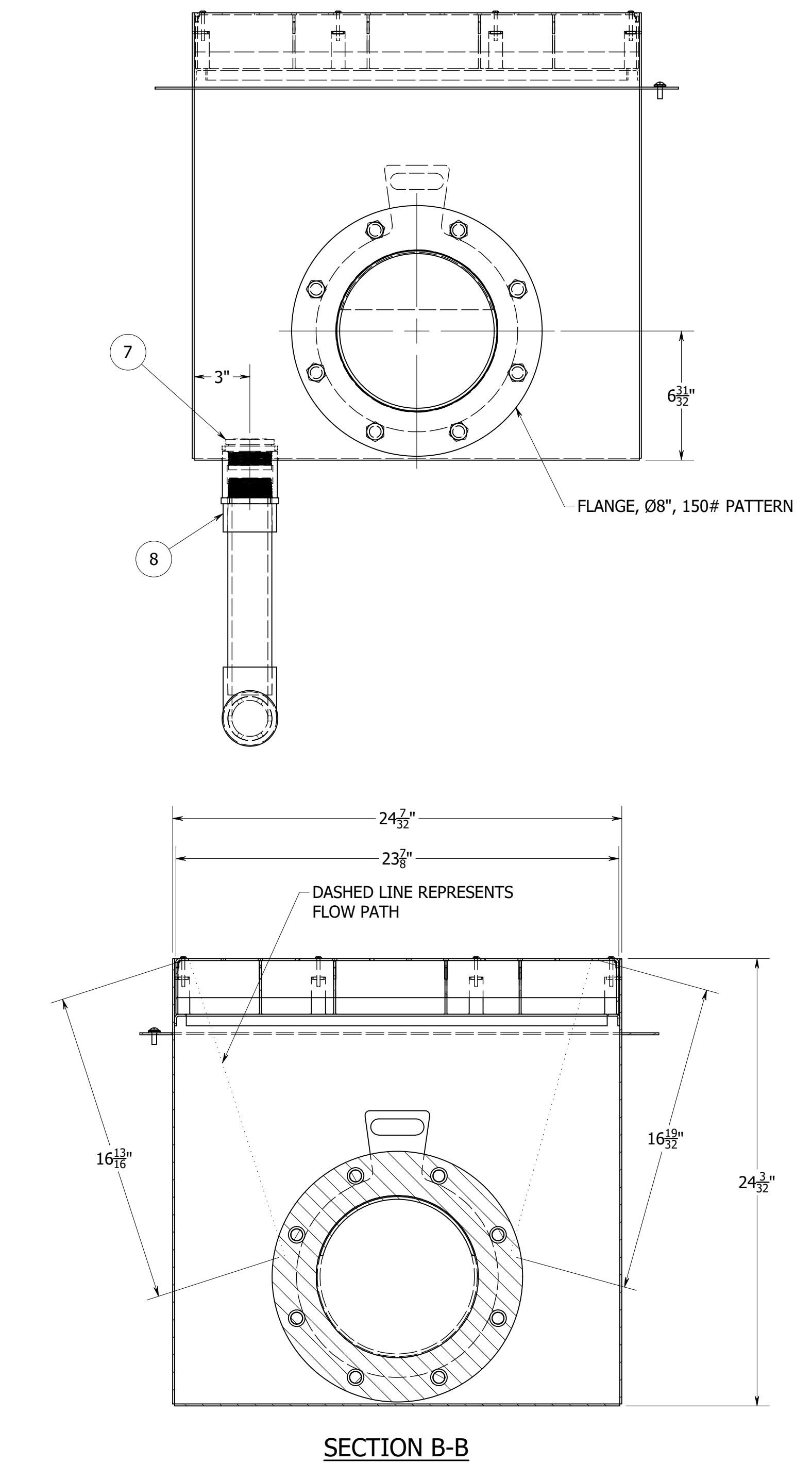
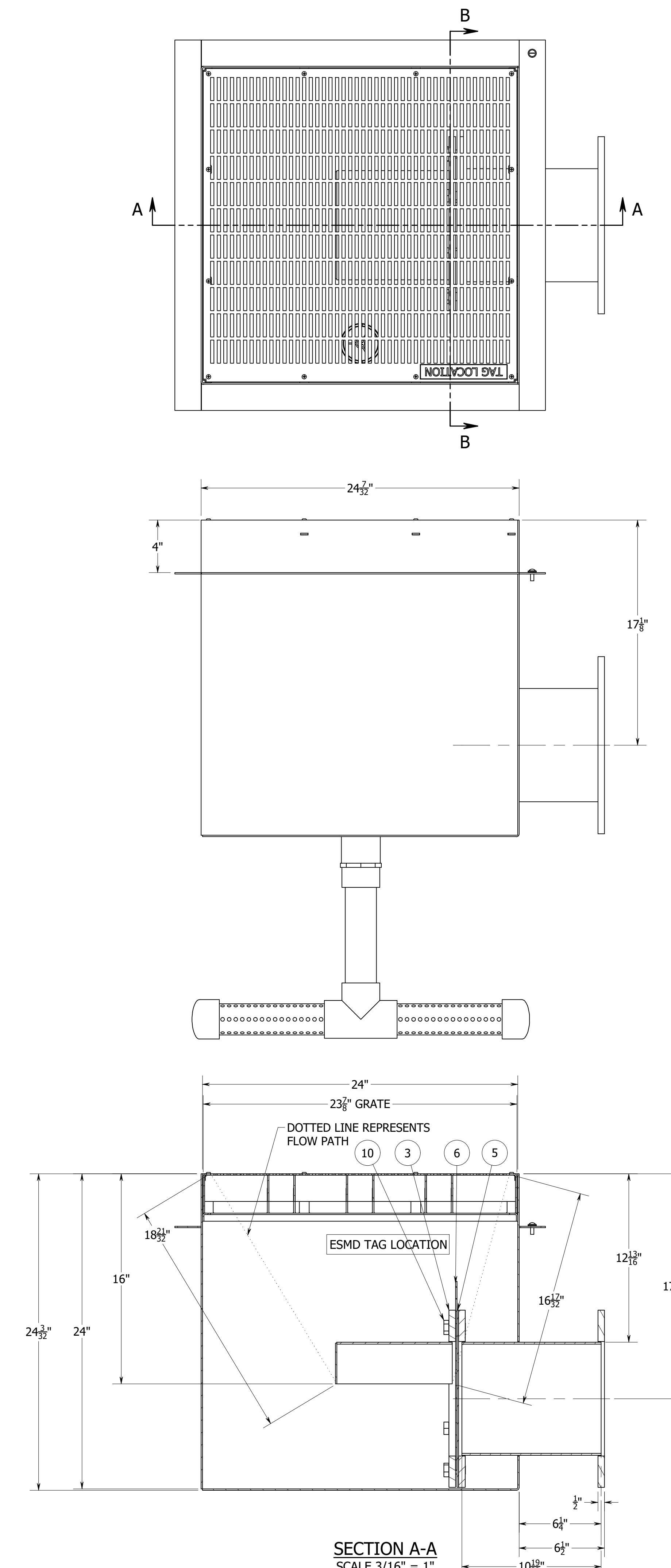
*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
P1	INITIAL RELEASE	3/25/2021	J.MAXWELL
P2	MODIFIED LIFTING ARM/HEAD	9/27/2022	J.MAXWELL

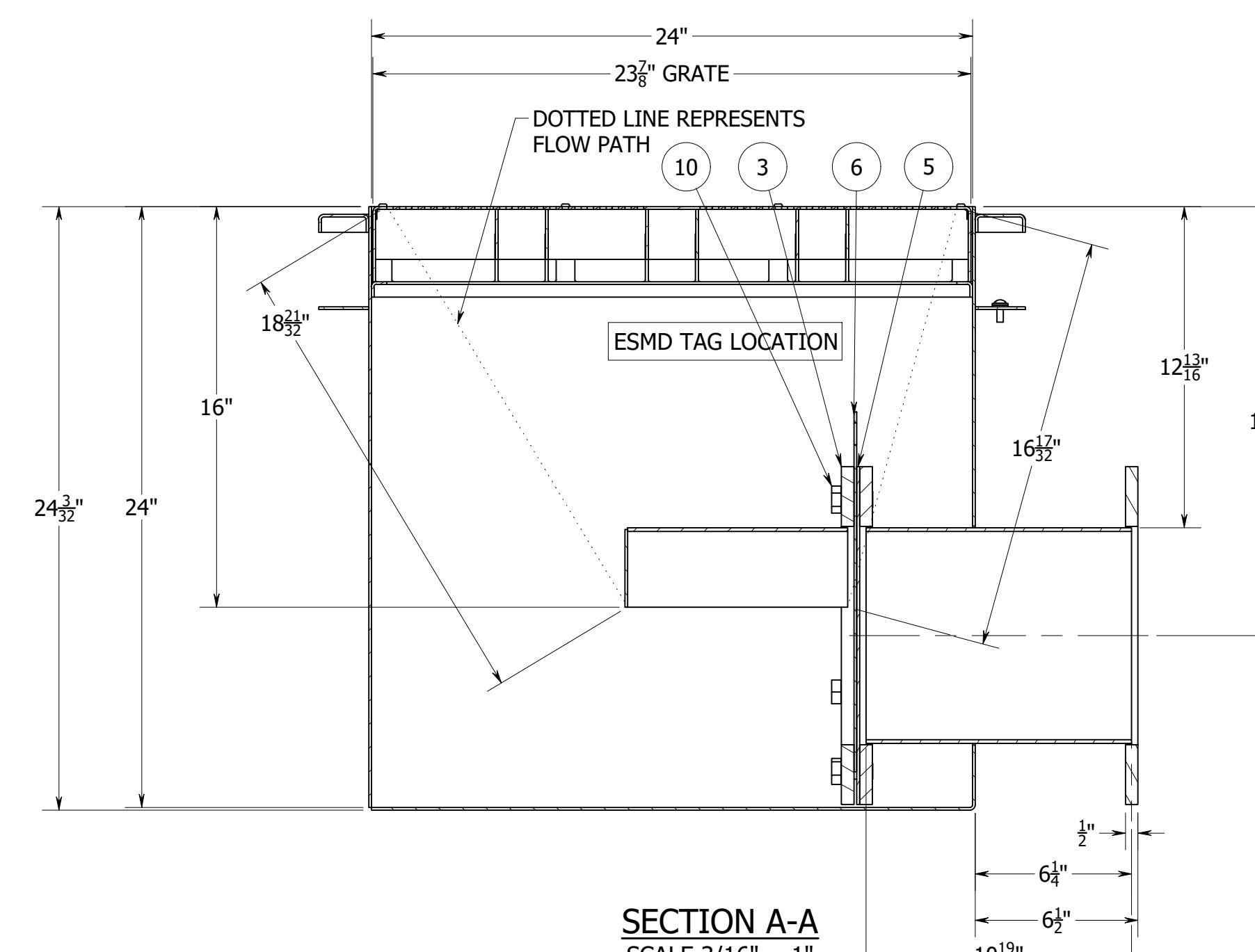
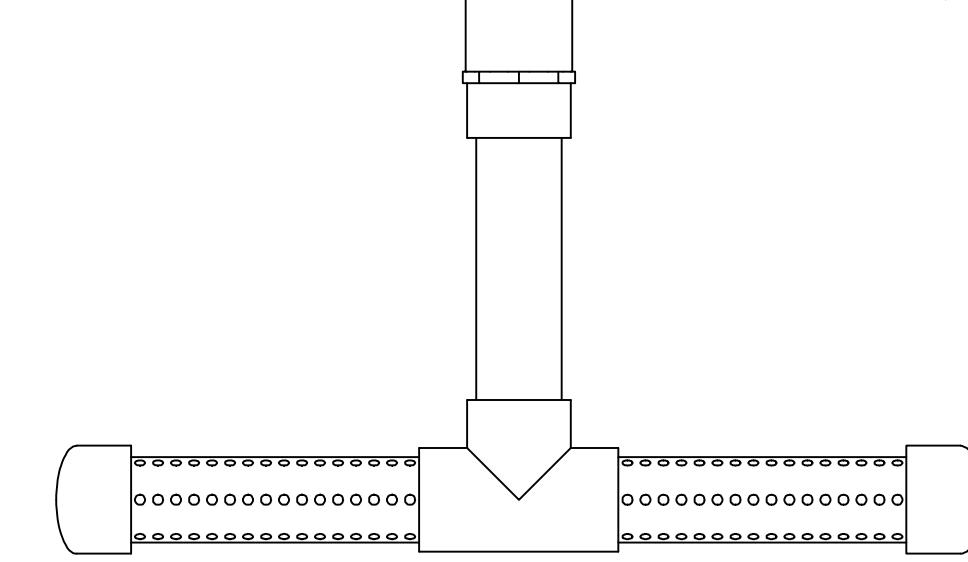
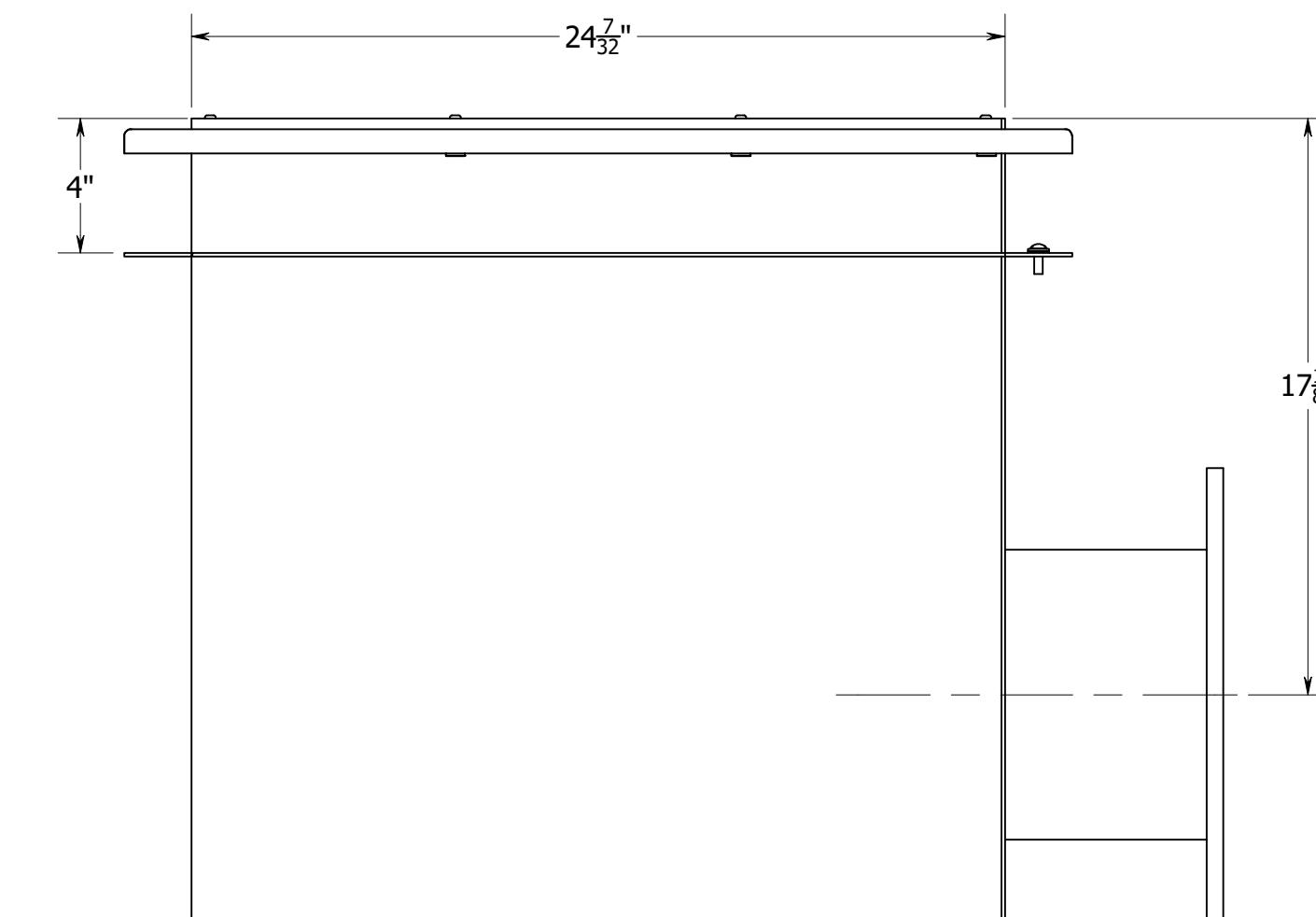
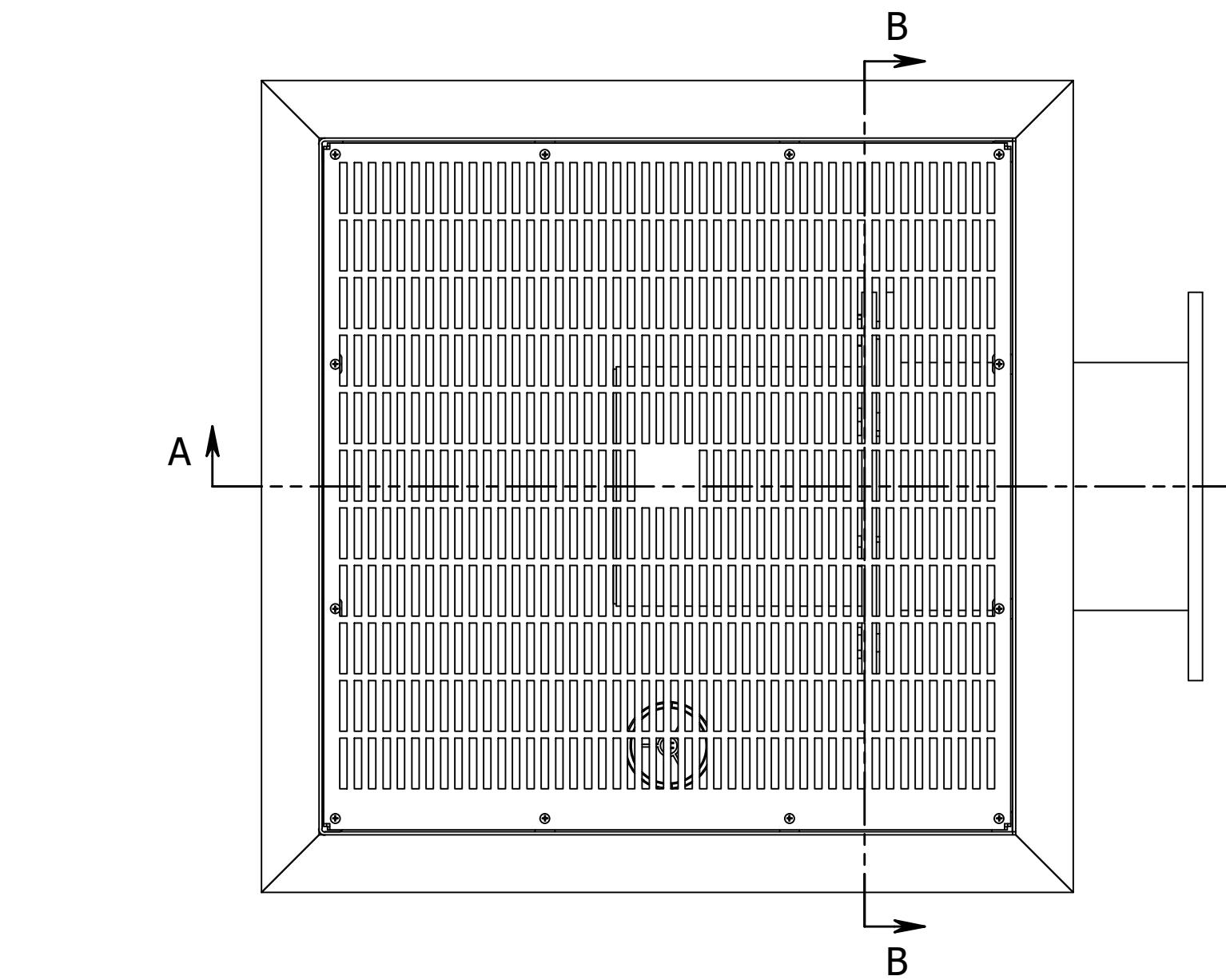
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	ESMD-2424-8-1	WELDMENT, 24" X 24" ESM, (1) 8" CONNECTION
2	1	FC-2424	WELDMENT, 24" X 24" FLAT MD COVER
3	1	AVRD-08	WELDMENT, 8" AVRD FOR 24" X 24"
4	1	HSRL-01	SHOP ASSEMBLY, HYDROSTATIC RELIEF FOR MAIN DRAIN BOXES
5	1	P2104-080x02.11-R0	GASKET, Ø8", 150# PATTERN, PL 1/8" x Ø13 1/2"
6	1	BP08-304	BLANKING PLATE, PL12GA x 14 3/8" x 10 7/8"
7	1	SP1056	CYC HYDRO RELIEF VALVE, 1.5IN/2IN - ABS WHITE
8	1	ADPTR-0200MPTx0200SOC.08-R0	2" MALE ADAPTER SOCKET
9	12	PHMP-#08Cx0108-316	PAN HEAD PHILLIPS SCREW, TORQUE RATING 19.8 INCH LBS, #8-32 X 1 1/2"
10	8	HHMB-063Cx0104-316	HEX HEAD BOLT, 5/8"-11 X 1 1/4"
11	1	RHMSL-025Cx0012-BR	ROUND HEAD SLOT MACHINE SCREW, 1/4"-20 X 3/4"
12	2	FW-025-BR	FLAT WASHER, Ø1/4"

QTY: 2 for Pool
QTY: 2 for Spa



PART NUMBER: 9300006

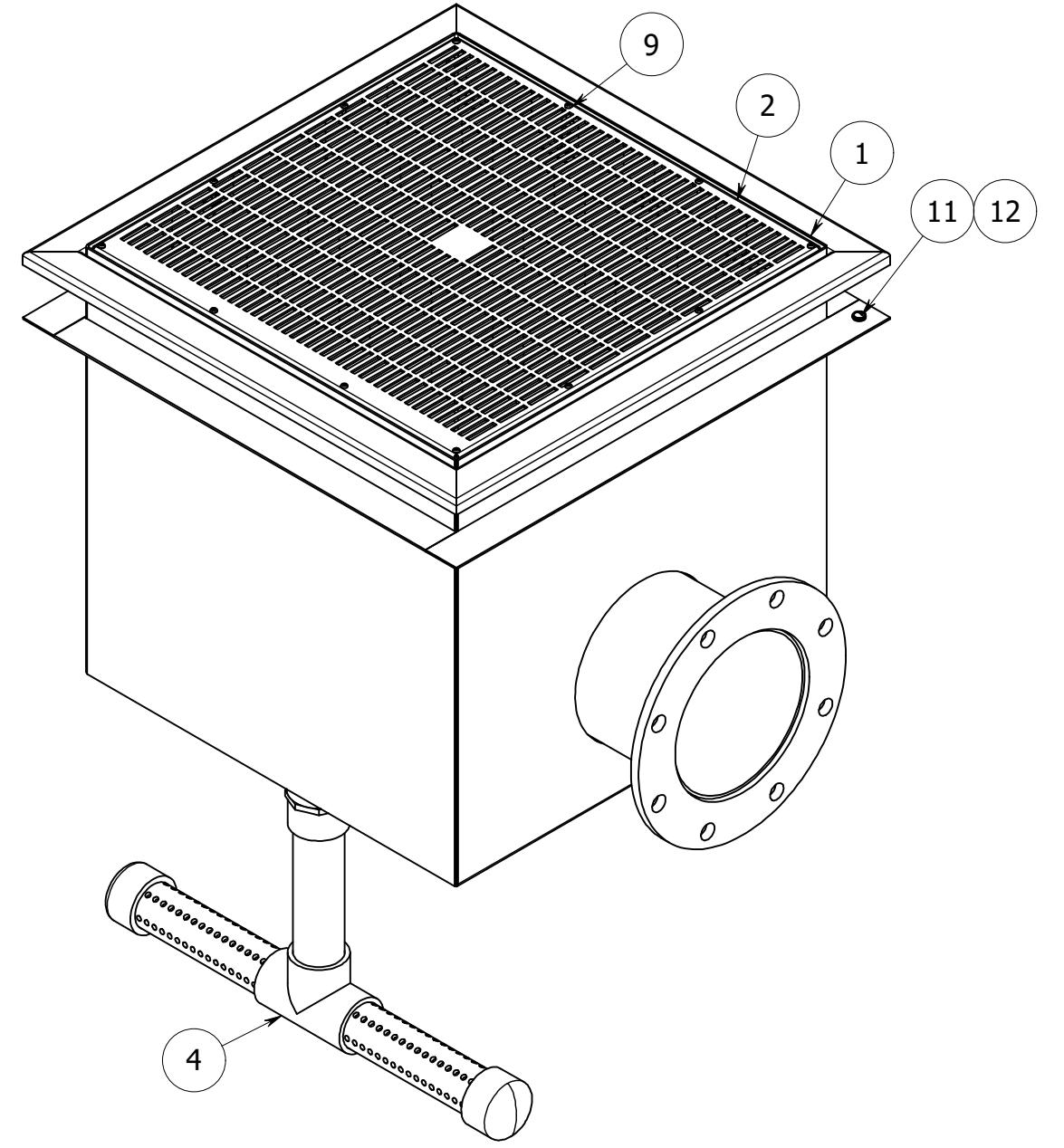
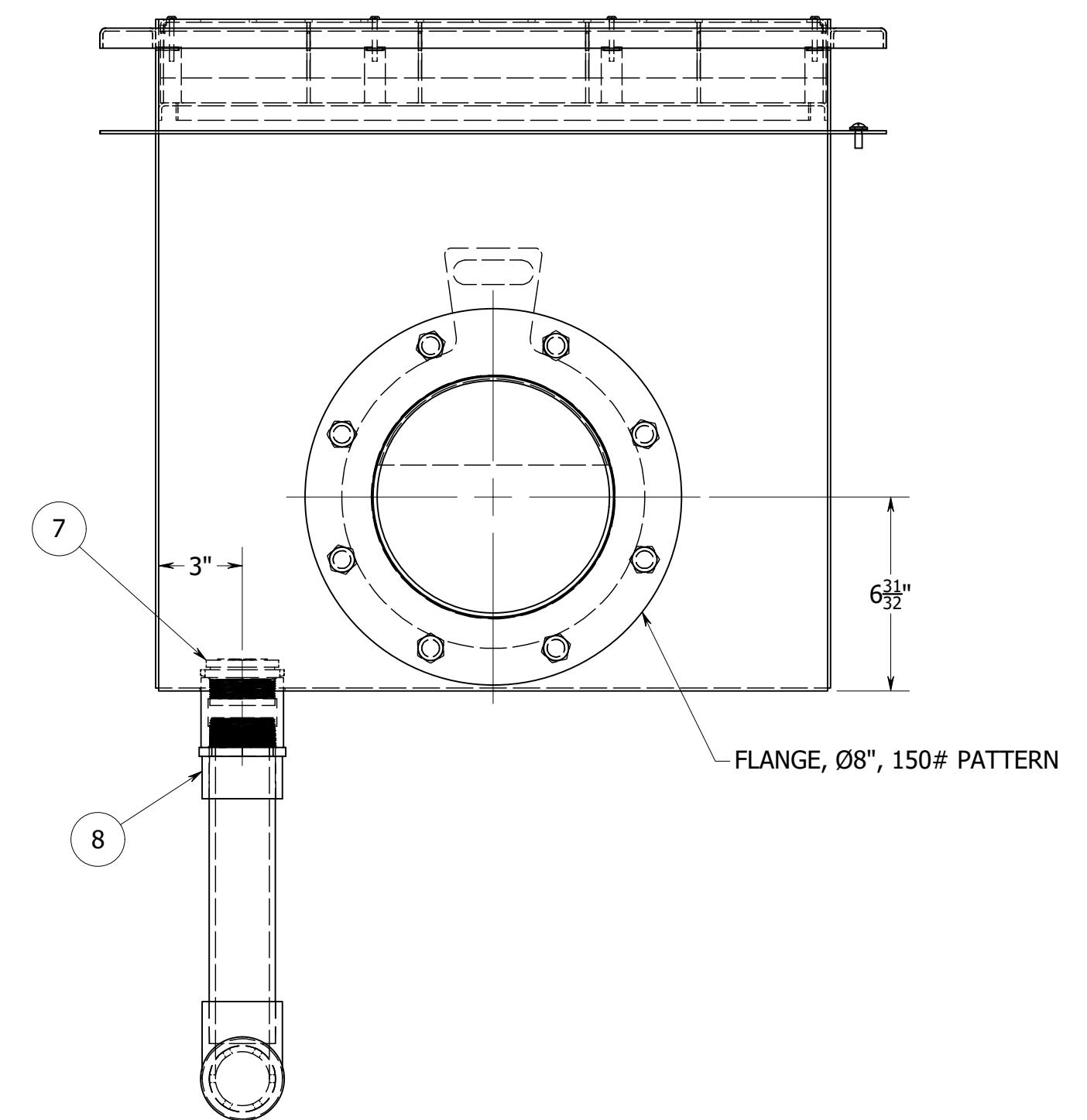
0	02/28/22	PTT	ORIGINAL ISSUE
REV	DATE	BY	DESCRIPTION
REVISION HISTORY			
DO NOT SCALE DRAWING			
X ± 1/16"	X ± 0.020"		TOLERANCE UNLESS OTHERWISE NOTED:
1/X ± 1/32"	XX ± 0.010"		X ± 1/16" X ± 0.020"
X ± 1/4"	XXX ± 0.005"		1/X ± 1/32" XX ± 0.010"
BY	DATE		X ± 1/4" XXX ± 0.005"
DRAWN	PTT	02/25/22	CONN.
CHECKED			QTY:
APPROVED			PPEC JOB NUMBER:
			DWG. NO. MD-304-2424FC-2424-8-1
			SHEET # 1 OF 1



QTY: 2 for Pool

QTY: 2 for Spa

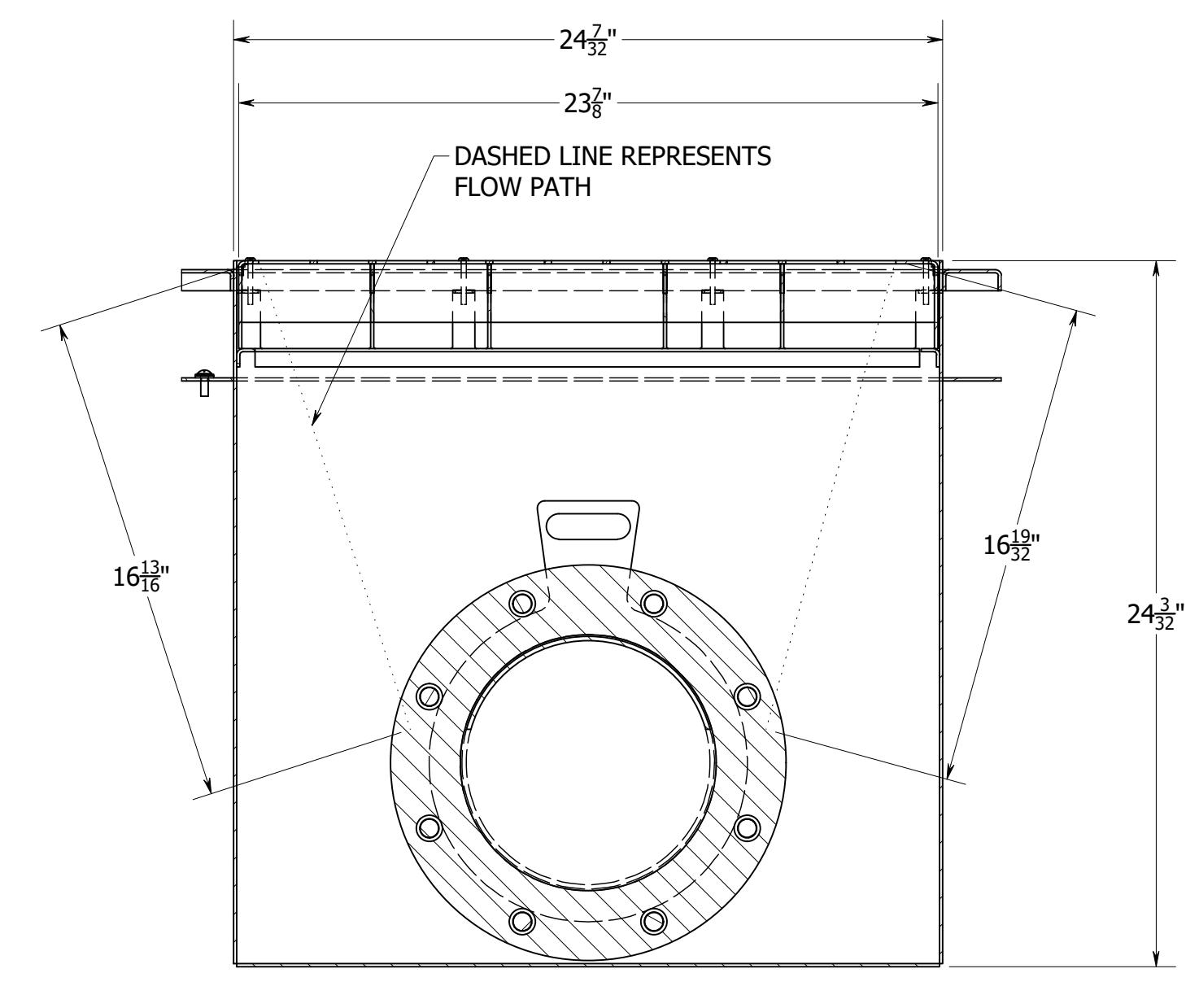
PARTS LIST				
ITEM	QTY	PART NUMBER	DESCRIPTION	COMMENTS
1	1	ESMD-L-2424-8-1.01-R0	WELDMENT, 24" X 24" ESMD, (1) 8" CONNECTION, W/ LINER FLANGE	304L SS
2	1	FC-2424.01-R1	WELDMENT, 24" X 24" FLAT MD COVER	304L SS
3	1	AVRD-08.01-R0	WELDMENT, 8" AVRD FOR 24" X 24" BOX	304L SS
4	1	HSRL-01	SHOP ASSEMBLY, HYDROSTATIC RELIEF FOR MAIN DRAIN BOXES	PVC
5	1	P2104-080x02.11-R0	GASKET, Ø8", 150# PATTERN, PL 1/8" x Ø13 1/2"	NEO
6	1	BP08-304	BLANKING PLATE, PL12GA x 14 3/8" x 10 7/8"	304L SS
7	1	SP1056	CYC HYDRO RELIEF VALVE, 1.5IN/2IN - ABS WHITE	CYCOLAC/HAYWARD
8	1	ADPTR-0200MPTx0200SOC.08-R0	2" MALE ADAPTER SOCKET	PVC
9	12	PHMP-#08Cx0108-316	PAN HEAD PHILLIPS SCREW, TORQUE RATING 19.8 INCH LBS, #8-32 X 1 1/2"	316 SS
10	8	HHMB-063Cx0104-316	HEX HEAD BOLT, 5/8"-11 X 1 1/4"	316 SS
11	1	RHMSL-025Cx0012-BR	ROUND HEAD SLOT MACHINE SCREW, 1/4"-20 X 3/4"	BRONZE
12	2	FW-025-BR	FLAT WASHER, Ø1/4"	BRONZE



2424 PCFC STAINLESS STEEL FRAME AND GRATE IN 24x24 SUMP					
VELOCITY (FT/SEC)	OPEN AREA (IN ²)	MAX FLOW (GPM)	TOTAL QTY	TOTAL OPEN AREA (IN ²)	TOTAL MAX FLOW (GPM)
1.39	212.89	920	1	212.89	920
1.0	212.89	663.55	1	212.89	663.55
0.5	212.89	331.78	1	212.89	331.78

NSF MAXIMUM SAFE FLOW RATE OF ONE (1) 2424PCFC EQUALS 920GPM

* THE NSF SAFETY FLOW IS THE MAXIMUM FLOW MEETING THE ANSI/APSP/ICC-16 2017 REQUIREMENTS. THE RECOMMENDED MAXIMUM DESIGN FLOW IS BASED ON A VELOCITY THAT DOES NOT EXCEED 1.39 FT/SEC. PADDOCK CERTIFIED COVERS & GRATES COMPLY WITH BODY BLOCKING ELEMENT TEST PER ANSI/APSP/ICC-16 2017



SECTION B-B

SCALE 3/16" = 1"



NSF/ANSI/CAN 50 &
ANSI/APSP - 16

PART NUMBER: 9300006

1	11/07/22	PTT	ADDED FLOW DATA
0	02/28/22	PTT	ORIGINAL ISSUE
REV	DATE	BY	DESCRIPTION
REVISION HISTORY			
DO NOT SCALE DRAWING			
TOLERANCE UNLESS OTHERWISE NOTED:			
X .± 1/16" X .± 0.020"			
1/8" ± 1/32" XX .± 0.010"			
X .± 0.005"			
X .± 1/4" XXX .± 0.005"			
CONNS., W/ LINER FLANGE			
24" X 24" MAIN DRAIN W/ (1) 24" X 24" FLAT COVER & (1) Ø8"			
CONN., W/ LINER FLANGE			
SPEC. NO.:			
DRAWN	PTT	02/25/22	PREP. NO.:
CHECKED	BY	DATE	
DWG. NO.	MD-L-304-2424FC-2424-8-1-R0	SHEET #	1 OF 1
APPROVED			

MISCELLANEOUS EQUIPMENT

5
8
1
8

Sight Glass



The sight glass is installed in the backwash line to allow operator to observe clarity of filter discharge water during backwashing. This permits shortest possible backwash. conserving water.

The sight glass is made from brass with a Lucite viewing tube. Sizes available are 1-1/2" and 2".

Submittal Information:

QTY: 1 for Pool
QTY: 1 for Spa

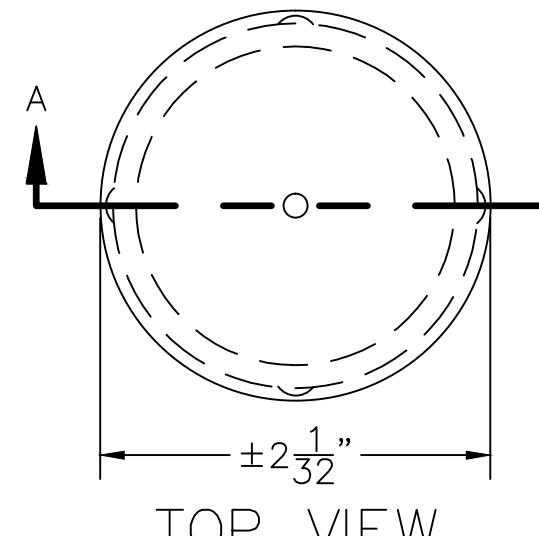
Additional Information



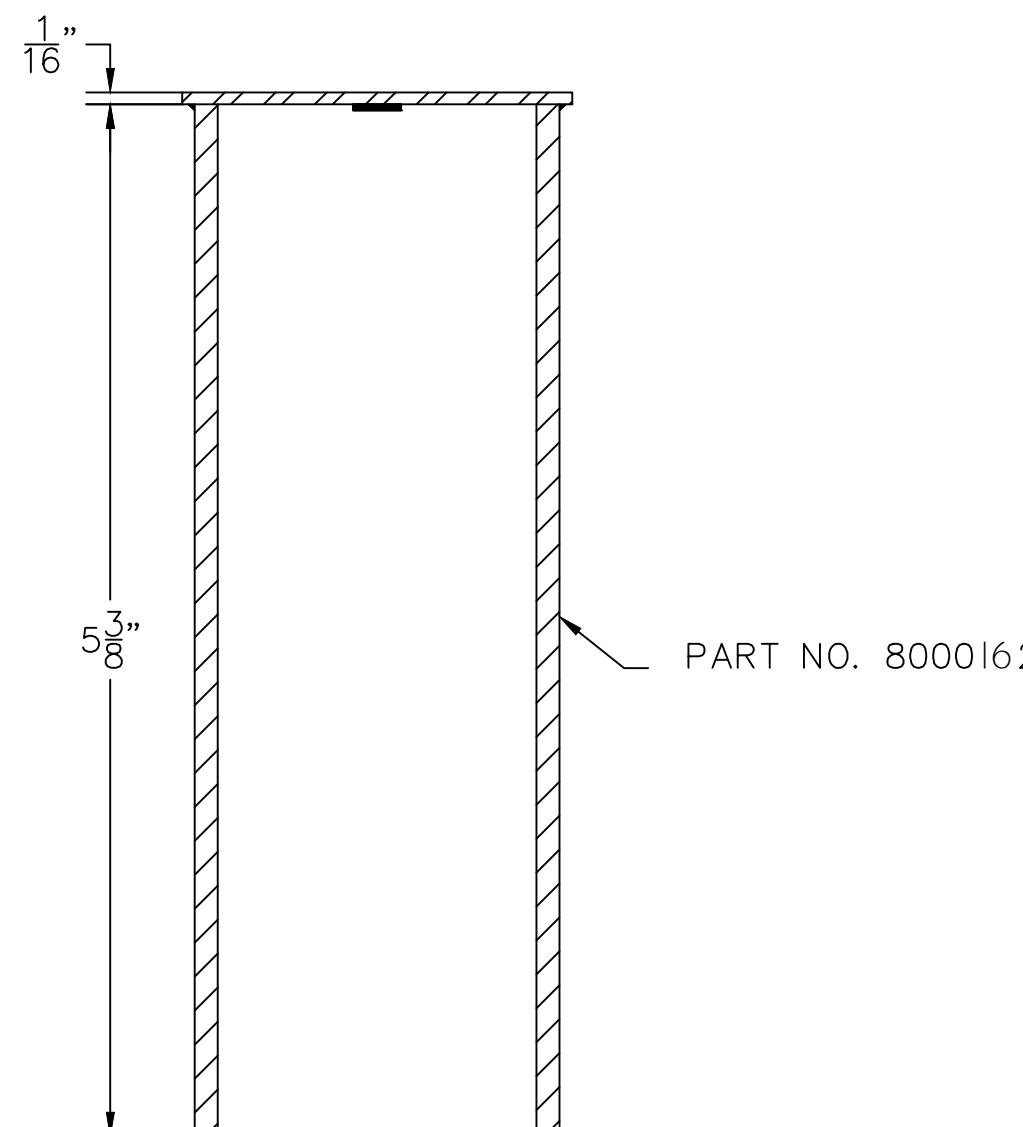
555 Paddock Parkway
Rock Hill, SC 29730
Ph: 803-324-1111
Fx: 803-324-1116

REVISIONS			
DATE	REV	DESCRIPTION	BY

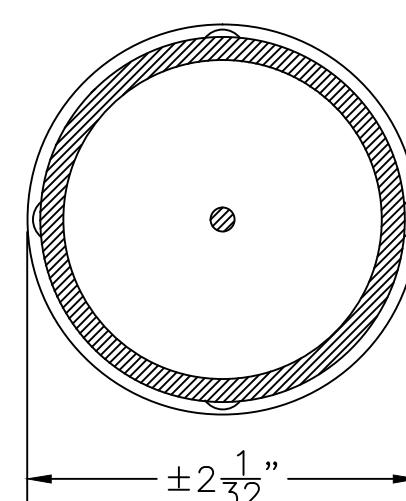
SS CLOSURE CAP



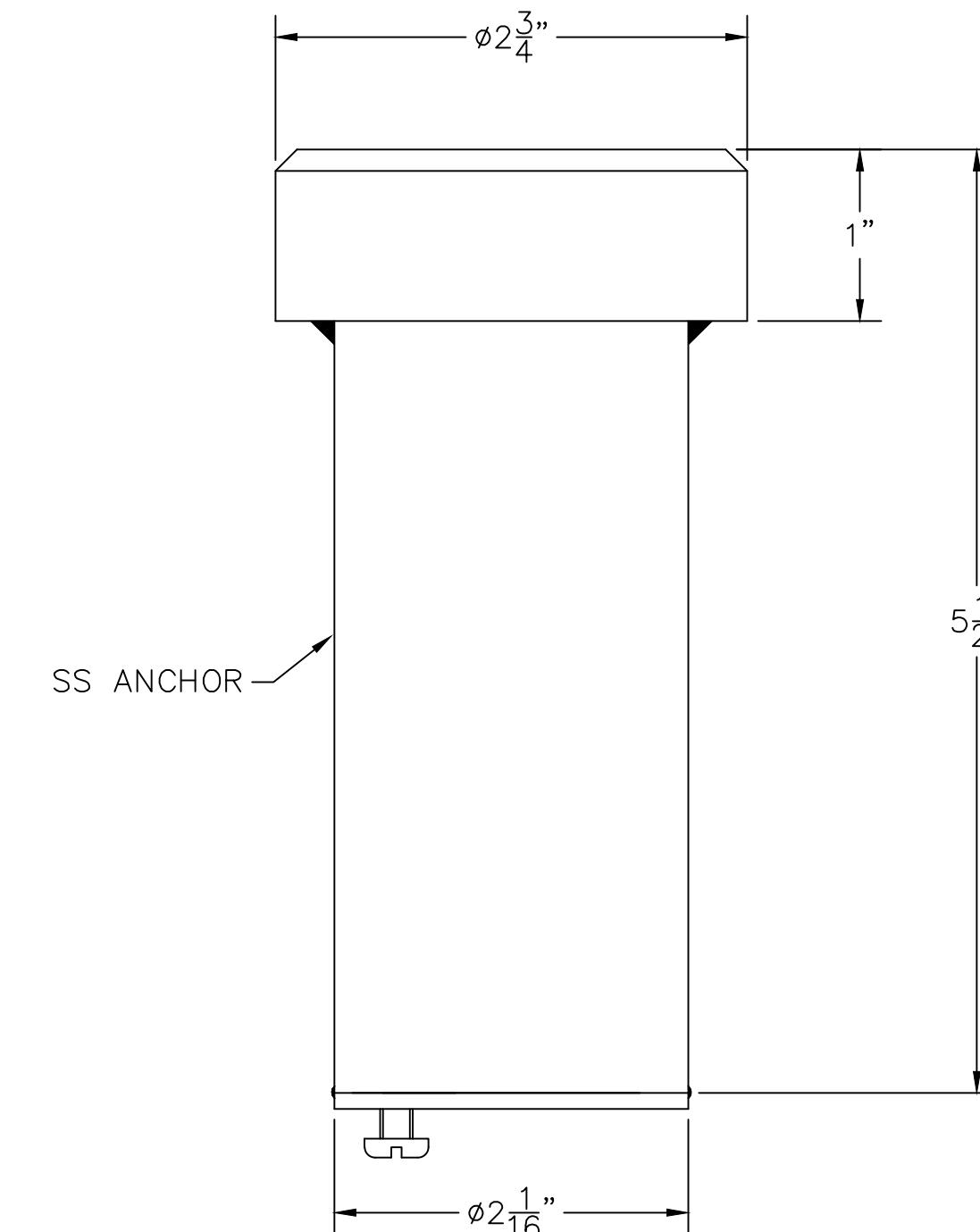
TOP VIEW



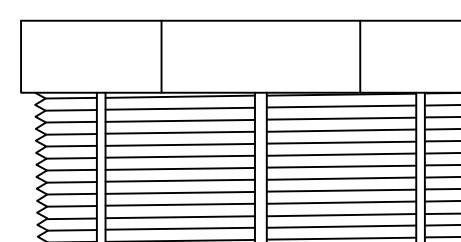
SECTION A-A



BOTTOM VIEW



LOCKING COLLAR



PART NO. 8000158

NOTES:

1. USE LOCKING COLLAR TO SECURE TUBING IN ANCHORS.

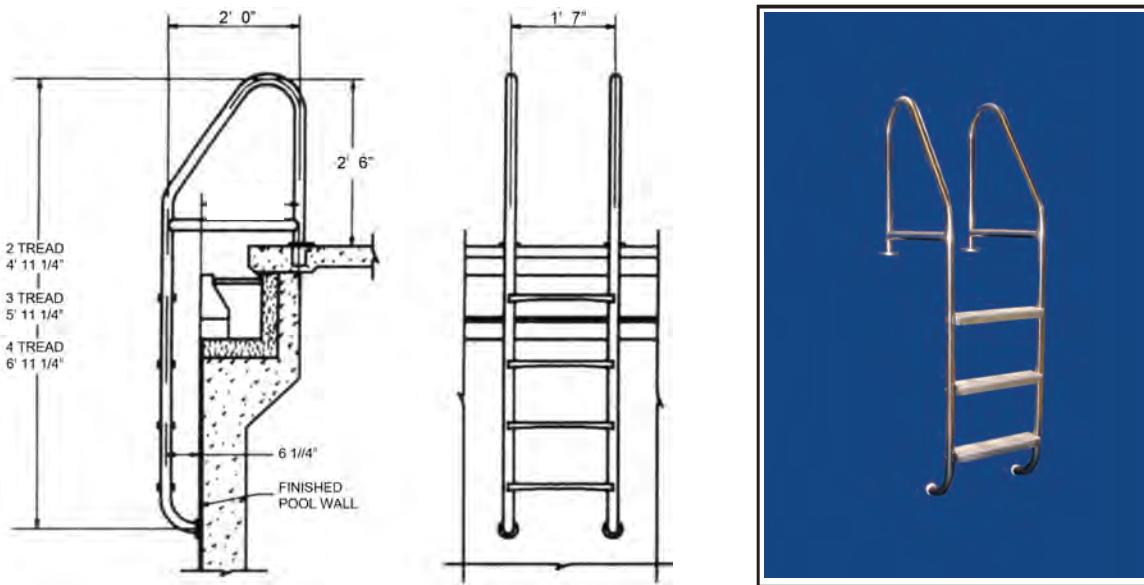
ITEM	PART NO.
SS ANCHOR	
LOCKING COLLAR	8000158
SS CAP	8000162

THREADED ANCHOR

555 Paddock Parkway Rock Hill, SC 29730 Phone: (803)324-1111 Fax: (803)324-1116 info@paddockindustries.com	 PADDOCK POOL EQUIPMENT COMPANY
DO NOT SCALE DRAWING TOLERANCE UNLESS OTHERWISE NOTED: X ± 1/16 .X ± .020 1/X ± 1/32 .XX ± .010 X ± 1/4" .XXX ± .005	
DESCRIPTION STAINLESS STEEL STANCHION ANCHOR, CAP & BRASS LOCKING COLLAR	
DRAWN M.J.G. 10/3/18	DATE
CHECKED	LOCATION
APPROVED	SCALE (UNLESS NOTED): AS SPECIFIED
MAT'L:	SIZE C
QTY: 4	W.O. #
DWG. NO.	REV. 1 0



Ladder



Paddock's **Ladders** are fabricated from Type 304 or 316L stainless steel tubing with an outside diameter of 1.90" and standard wall thickness of .083". (Outside diameter of 1.5" or wall thickness of .120" is also available.)

Ladder rails are spaced 19" apart with a cross brace for added stability and furnished with slip-resistant stainless steel treads.

Exposed surfaces shall be polished to a Paddock buff finish.

A rubber bumper on each rail protects the interior pool finish.

Paddock deck anchors with Paddock escutcheon plates are available.

P/N _____, Model 4539-_____, 2-Tread Ladder Type _____, _____" OD x _____ Wall Less Anchors, Qty _____

P/N _____, Model 4540-_____, 3-Tread Ladder Type **304**, **1.9**" OD x **.083** Wall Less Anchors, Qty **2 for Pool**

P/N _____, Model 4541-_____, 4-Tread Ladder Type _____, _____" OD x _____ Wall Less Anchors, Qty _____

P/N _____, Model 4542-_____, 5-Tread Ladder Type _____, _____" OD x _____ Wall Less Anchors, Qty _____

DECK EQUIPMENT

Wedge Deck Anchor

4
8
0
1



The body shall be constructed of cast bronze and shall have a tapered chamber to receive wedge by means of which a ladder or other rail may be held securely.

Wedge shall be of cast bronze and shall be drawn against rail being anchored by means of a $\frac{1}{2}$ " bolt.

Wedge deck anchor shall be provided with a ground connection at its base and shall have an anchoring protrusion at its center.

PN 200153

1.90" OD Tubing

Submittal Information:

QTY: 10 for Pool
QTY: 4 for Spa

Additional Information



555 Paddock Parkway
Rock Hill, SC 29730
Ph: 803-324-1111
Fx: 803-324-1116