



Production Booklet

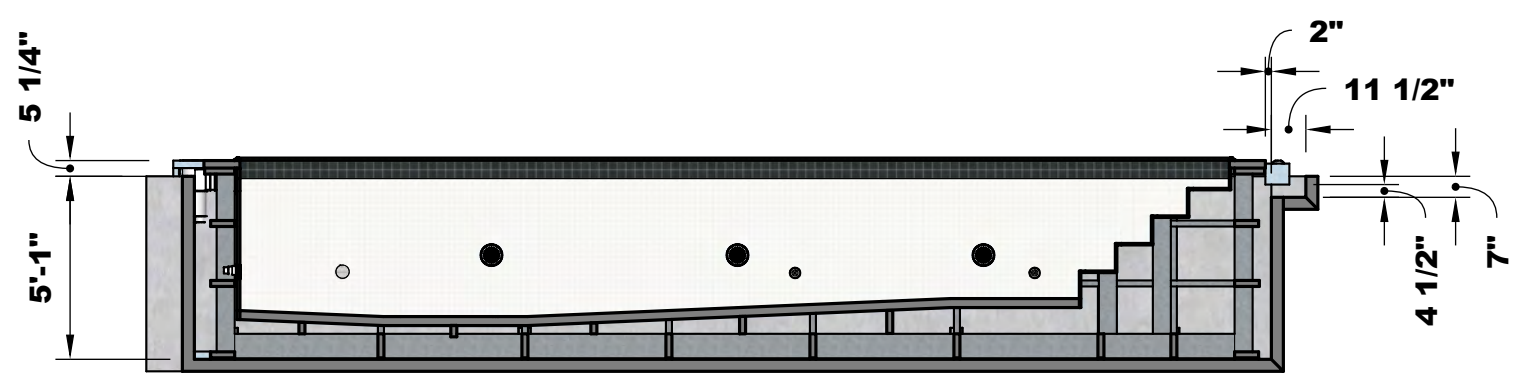
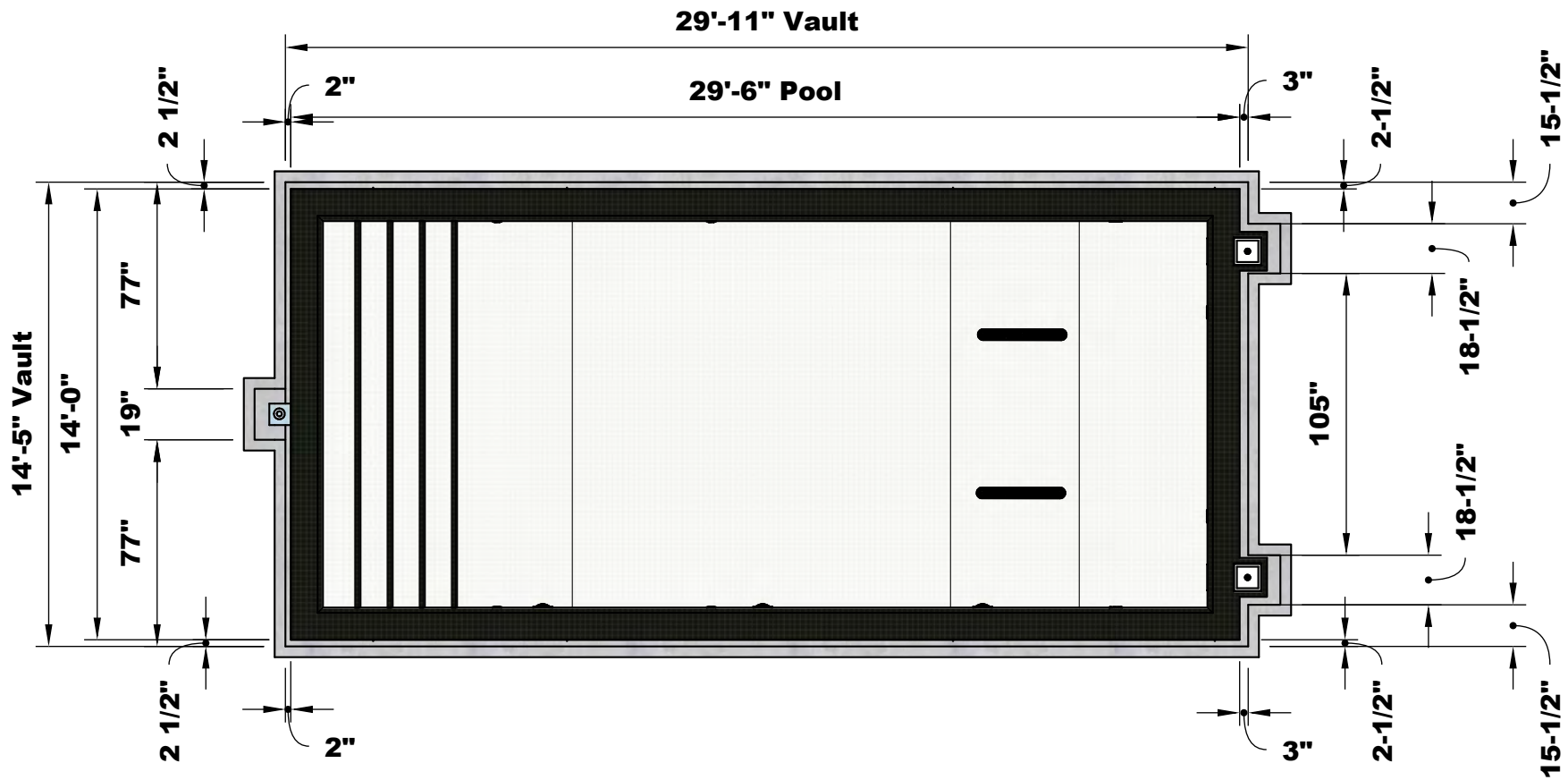
for

MODERA ARGYLE POOL

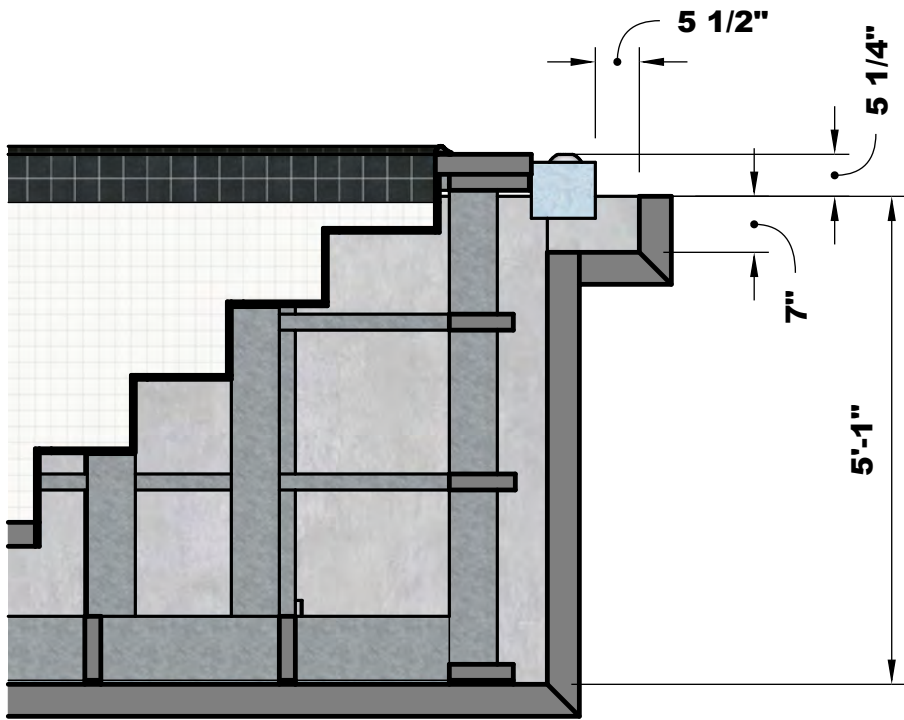


2800 Richter Ave. Suite C, Oroville, CA 95965 • **voice:** (530)534-9910

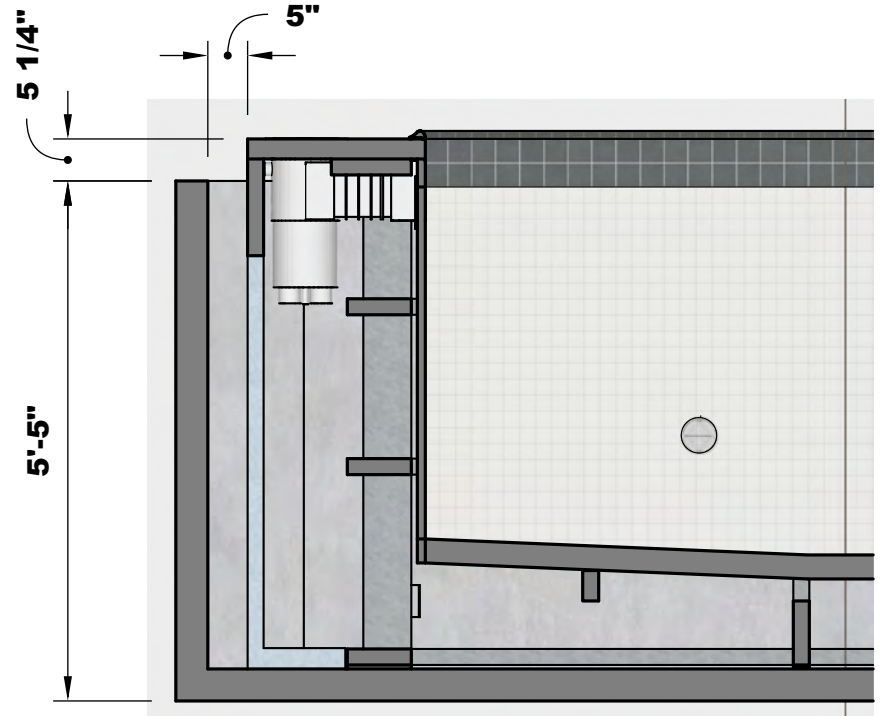
email: jim@tiledspas.com • **website:** www.tiledspas.com

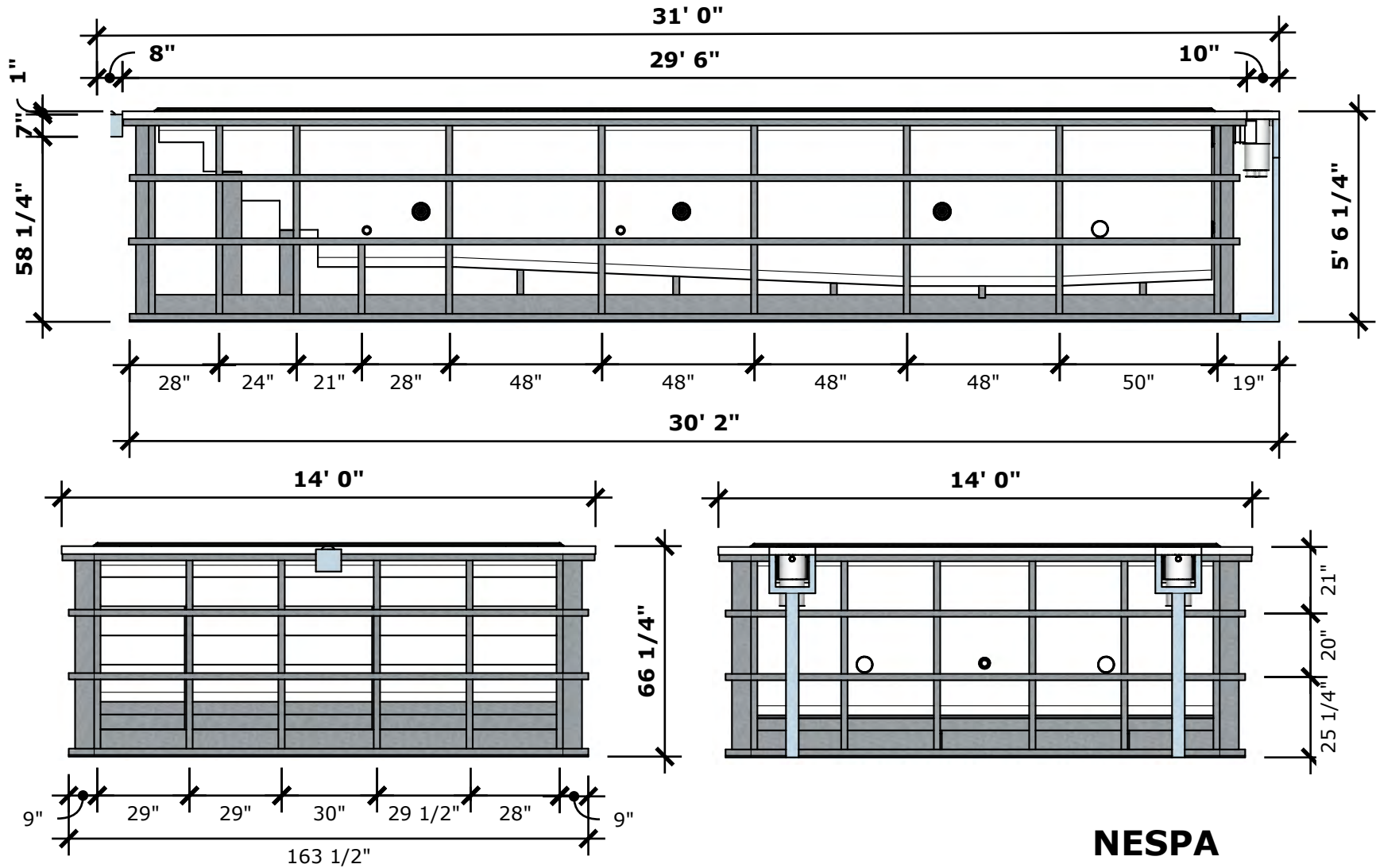


**MODERA
 POOL
 VAULT
 DETAIL**



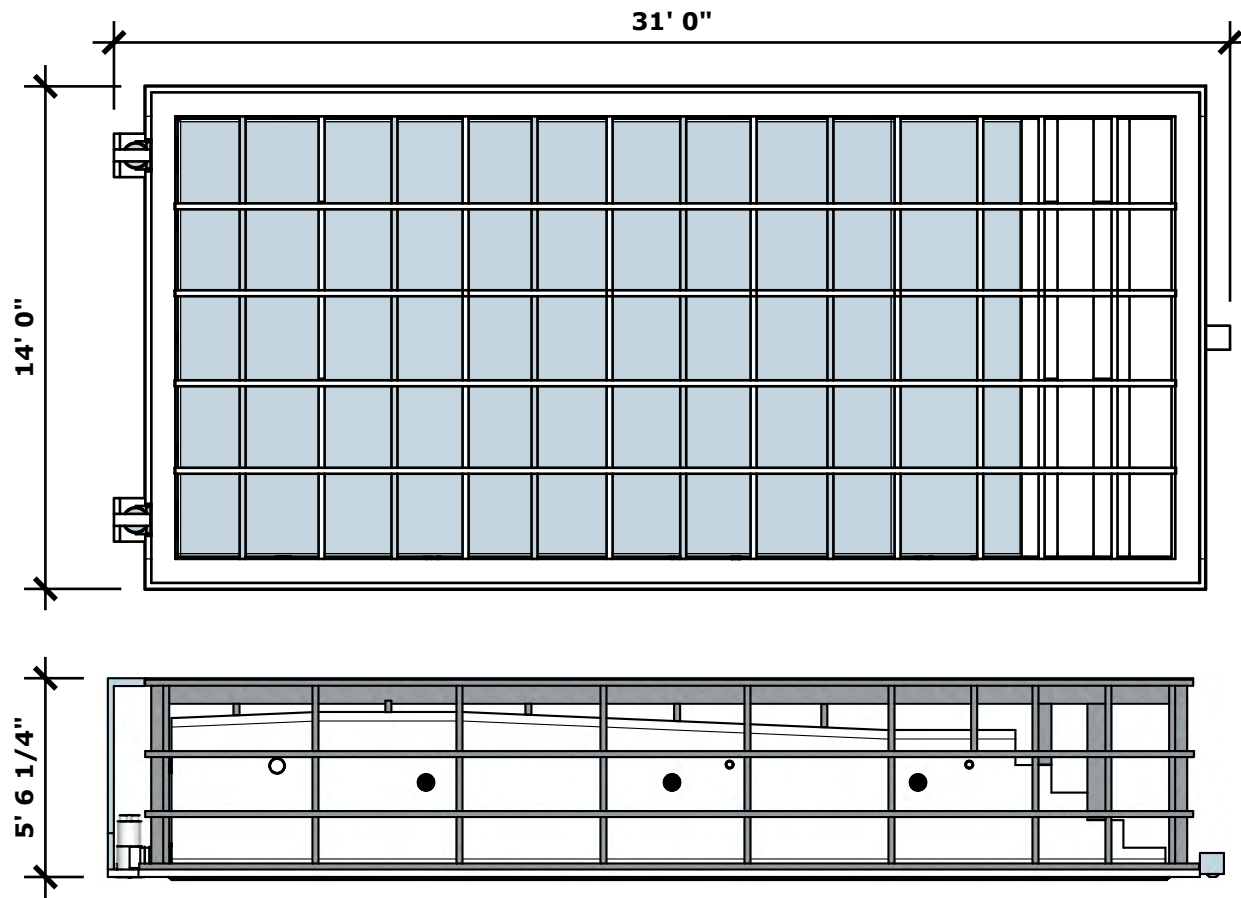
**MODERA
POOL
VAULT
DETAIL**





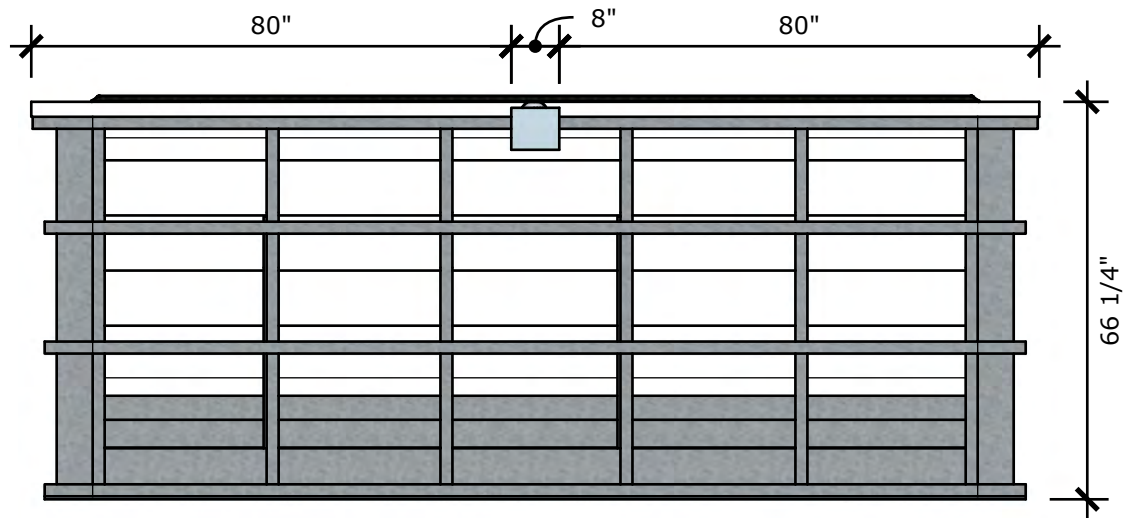
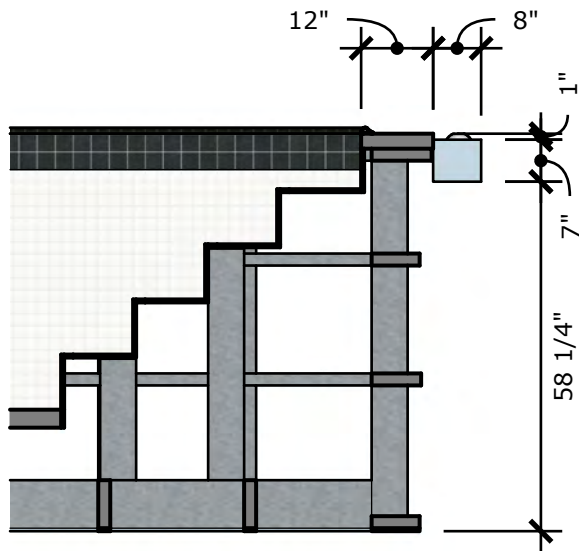
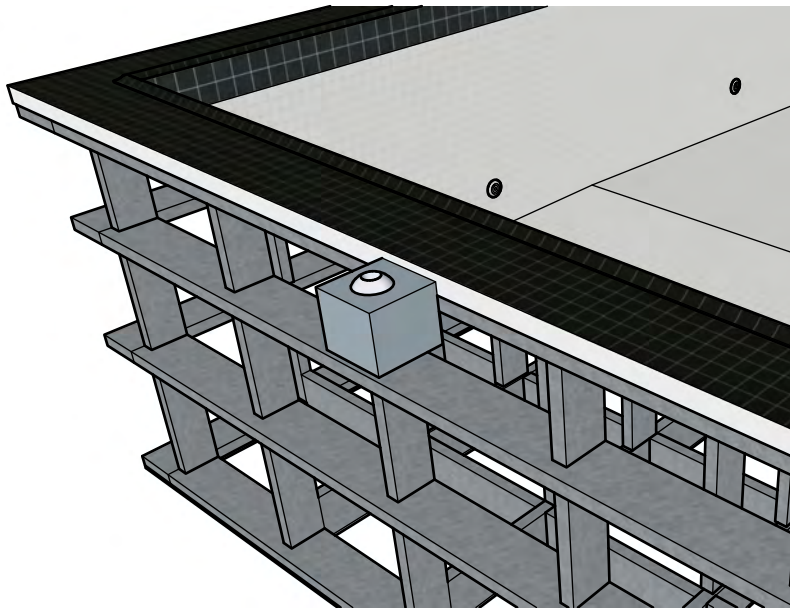
MODERA POOL - AS- BUILT - ELEVATIONS

**NESPA
3-15-2023**



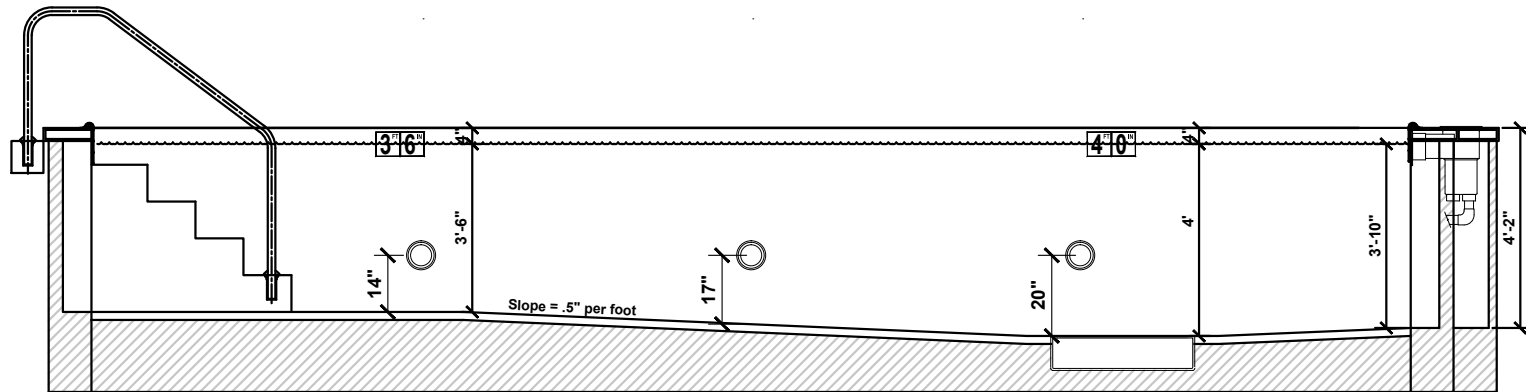
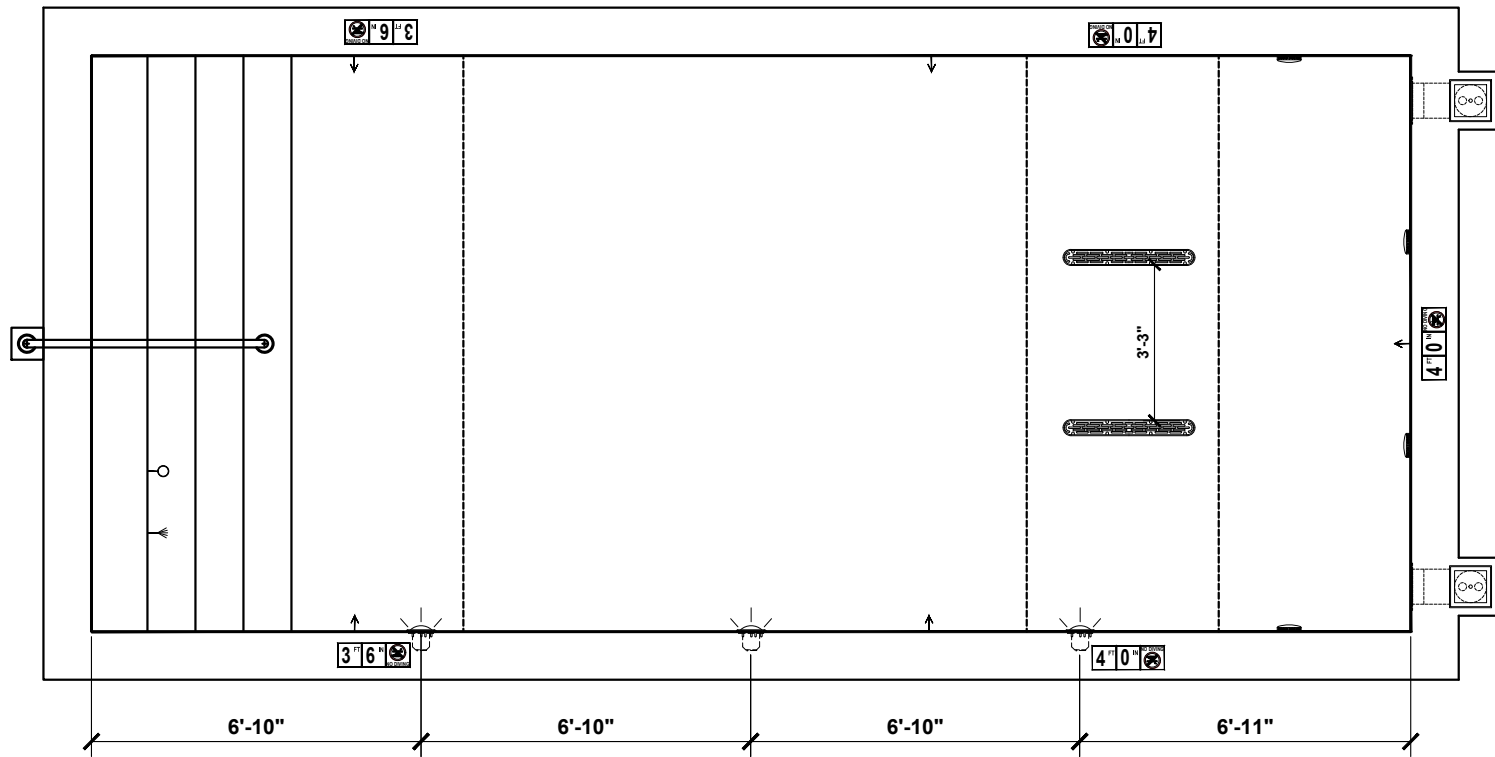
MODERA POOL - AS- BUILT - BOTTOM VIEW

**NESPA
3-15-2023**



MODERA POOL - AS- BUILT - Cup Anchor - cutout

**NESPA
3-15-2023**



RAILS

DWG-SIZE

A

DWG

Modera Pool 1327

SCALE:

0'-0 1/4" = 1'

DATE:

2/3/2023

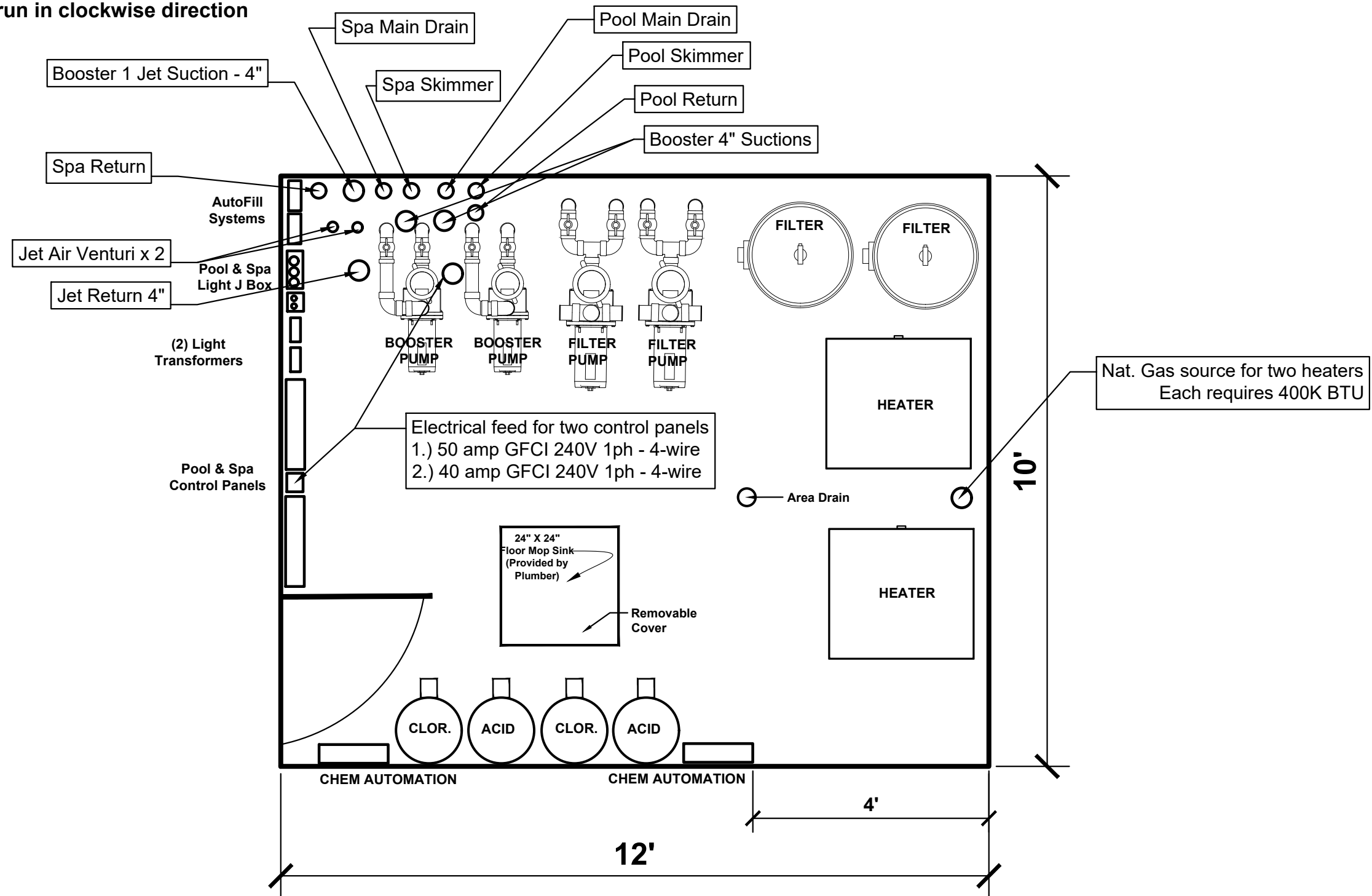
TITLE

VAULT DETAIL

SHEET:

1

Shaft where plumbing is coming from floor beneath circ plumbing to run in clockwise direction



Modera Pool 1327

SPECIFICATIONS	
SHELL WEIGHT:	20000 LBS.
WATER WEIGHT:	68092 LBS.
TOTAL SHELL & WATER WEIGHT:	88092.4 LBS.
WATER VOLUME:	1089 Cu.Ft.
WATER GALLONS:	8168 GAL.
SURFACE AREA:	329.8 SQ. FT.
POOL LENGTH:	27'-6"
POOL WIDTH:	12'-0"
POOL DEPTH:	4'-0"
ICC ES LISTED #:	PMG-1161

NESPA ENTERPRISES, Inc.



ICC ES Listed
PMG-1161

SPECIFICATIONS

POOL TYPE:	POOL
DIMENSIONS:	LENGTH = 27'6" WIDTH = 12'0"
AREA:	329.8 SQ. FT
DEPTHS S-B-D:	4FT 0IN.
VOLUME:	8168 GALLONS
FILTER:	PENTAIR CCP420
FILTRATION RATE:	MIN 73 GPM
FILTER PUMP:	Superflo VS - 342001- 73GPM
DRAIN COVERS:	Aquastar 6HP101
CHEMICAL CONTROLLER:	PENTAIR INTELICHEM
CHEMICAL FEEDER (PH):	STENNER
CHLORINATOR:	N/A
SEPARATION TANK:	STENNER GPD
FLOWMETER:	Blue and White - F300
SKIMMER:	(2) Waterway - 75 GPM ea.
TURNOVER TIME:	112 - minutes

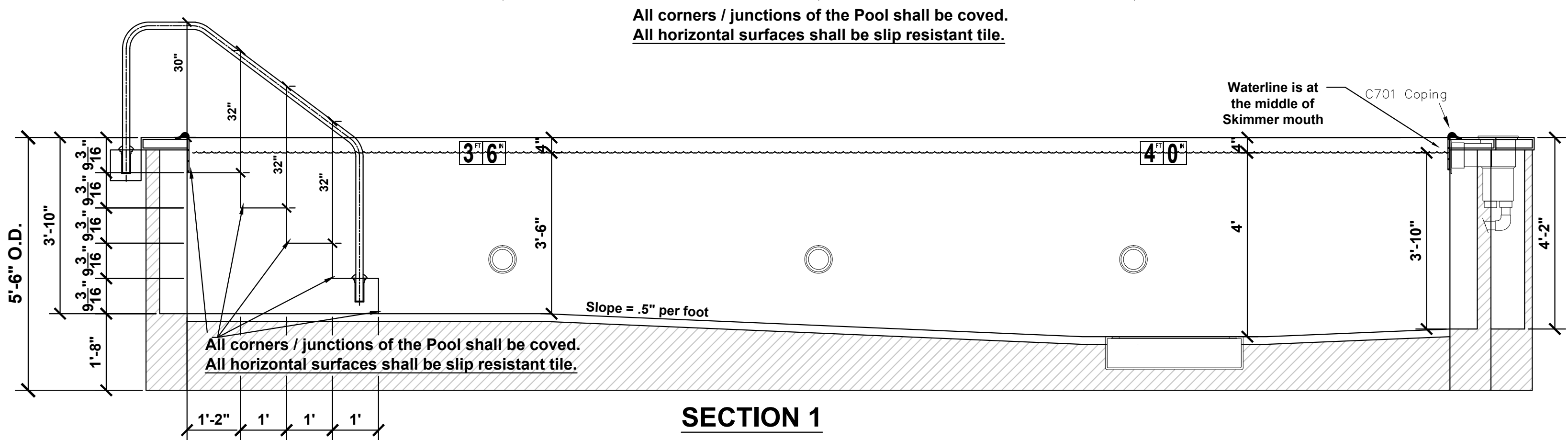
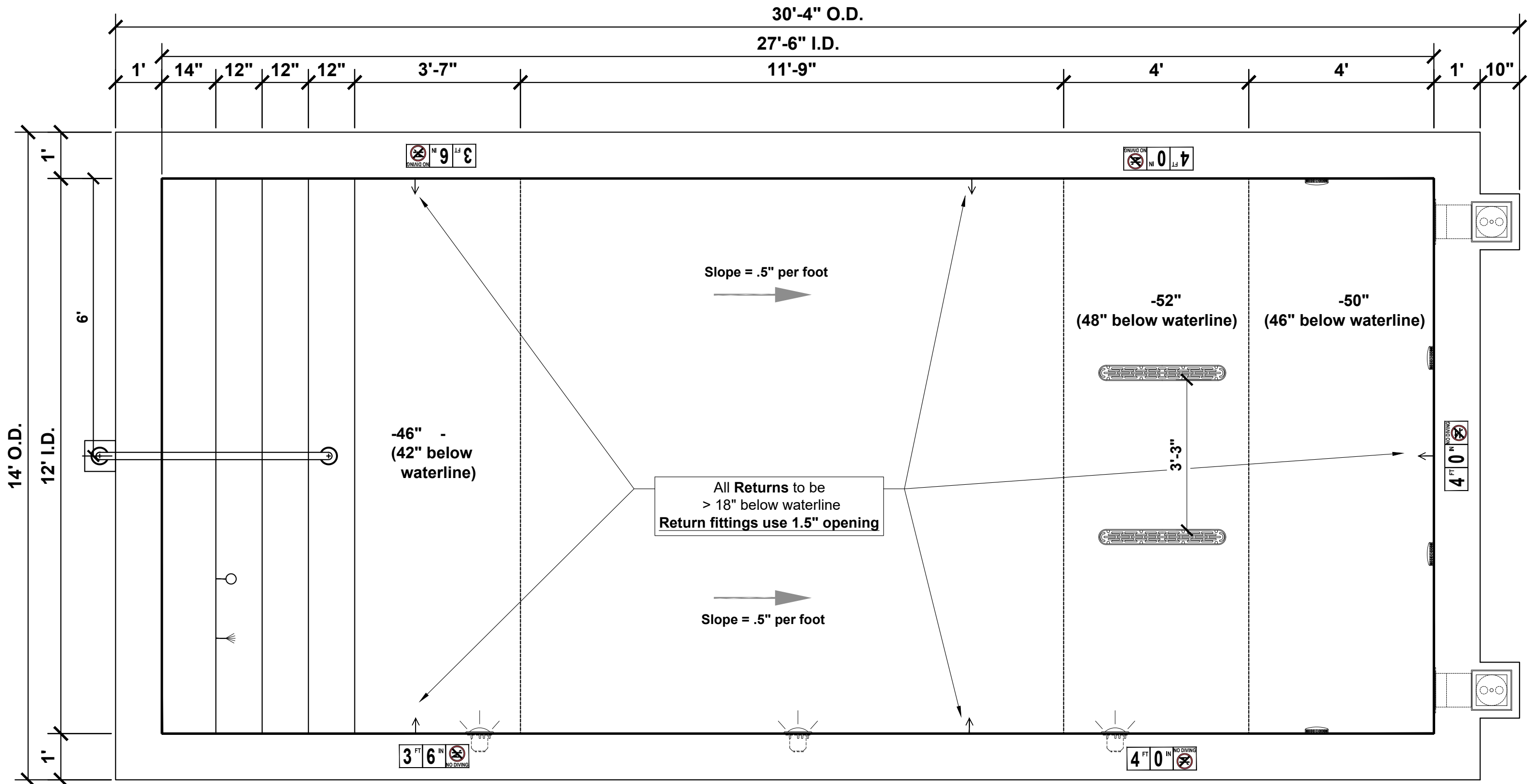
NESPA ENTERPRISES INC.

2800 Richter Ave. Ste. C Oroville, CA 95966

Office: (530) 534-9910

E-Mail: jim@tiledspas.com Web

Site: www.tiledspas.com



SECTION 1

SUBMITTAL

DWG-SIZE **C**

DWG **Modera Pool 1327**

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

DATE: **12/19/2022**

TITLE **POOL SD**

SHEET: **1**

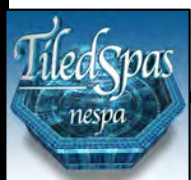
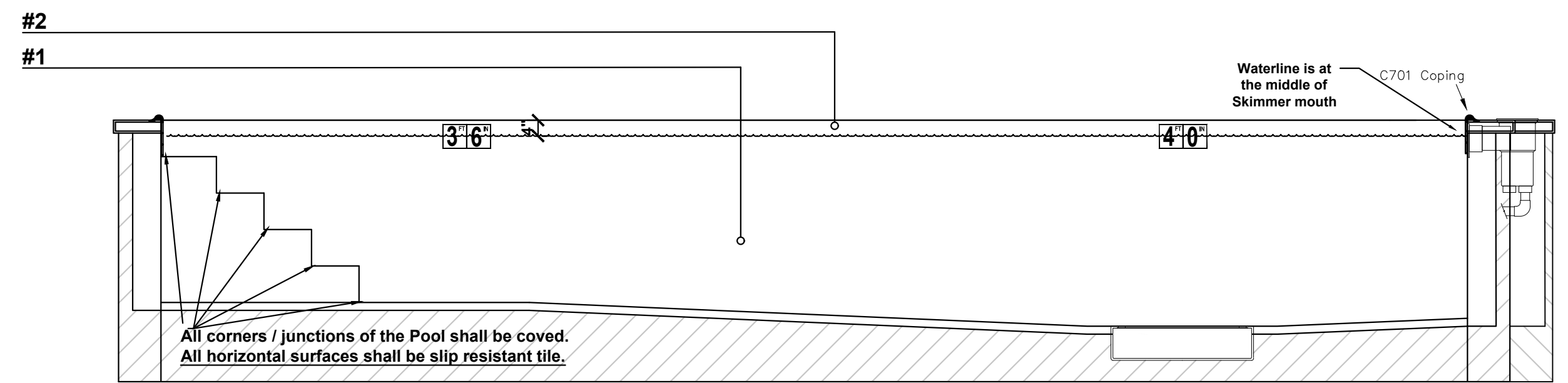
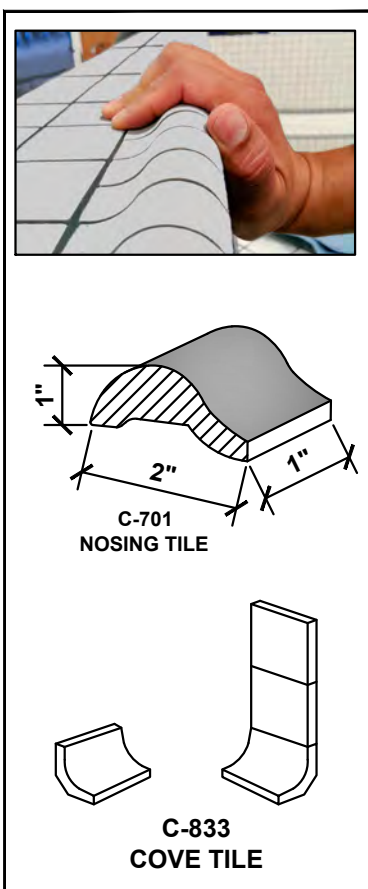
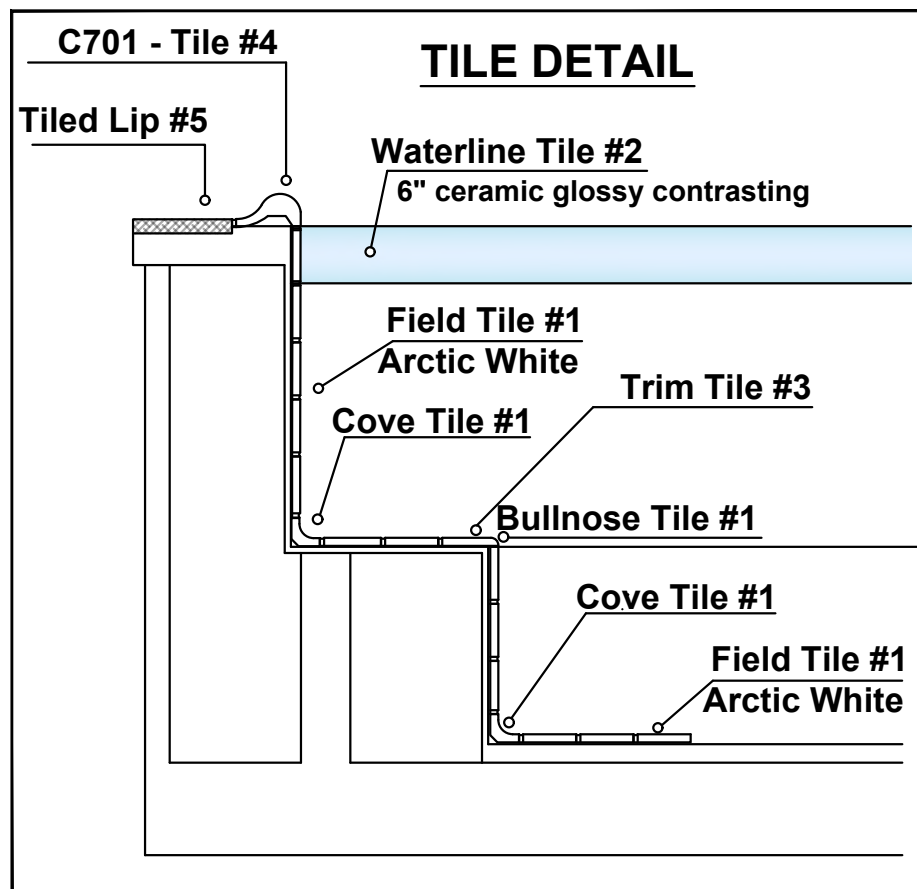
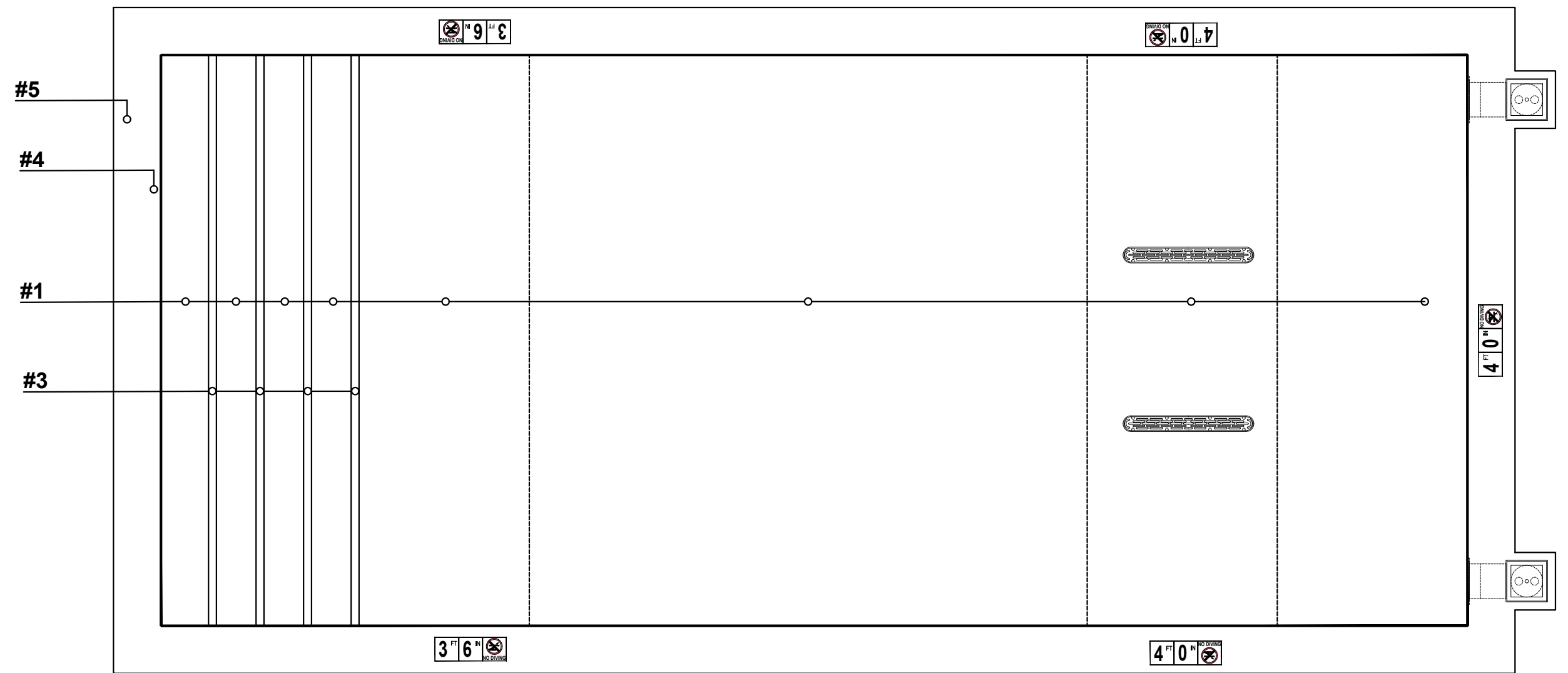
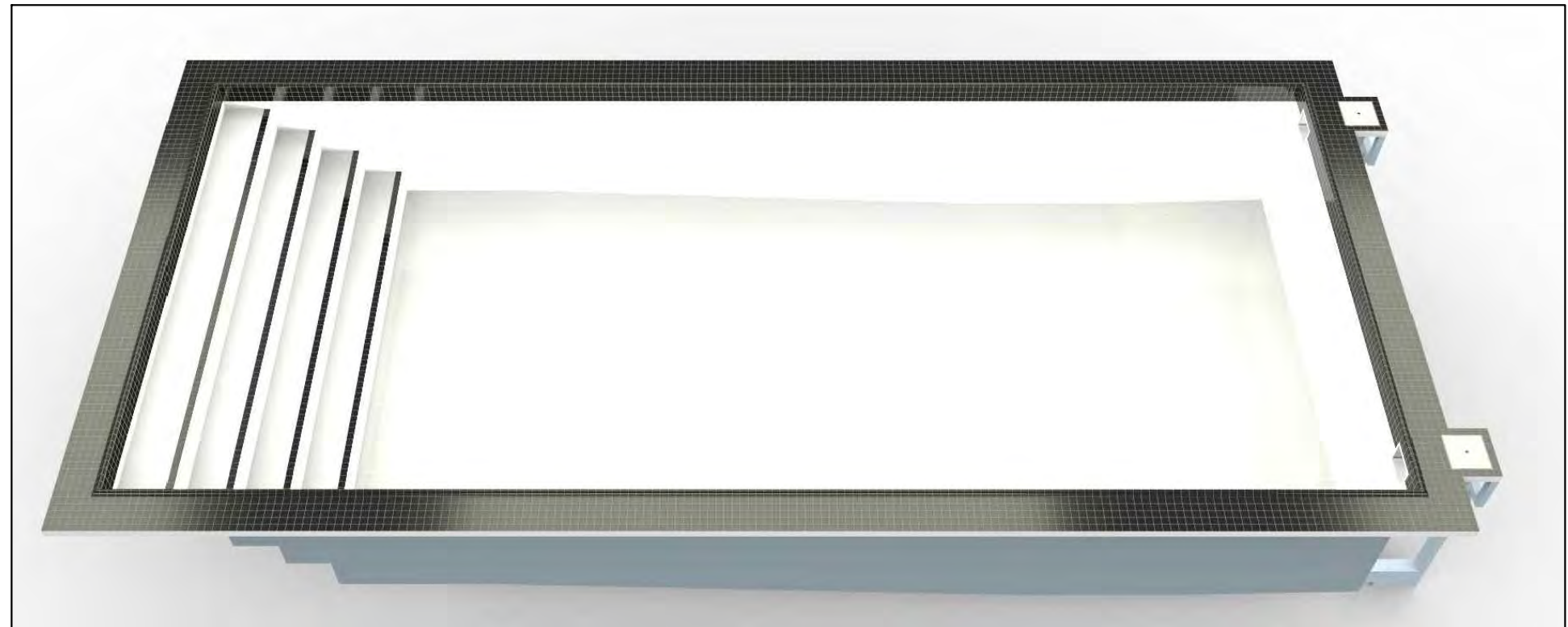


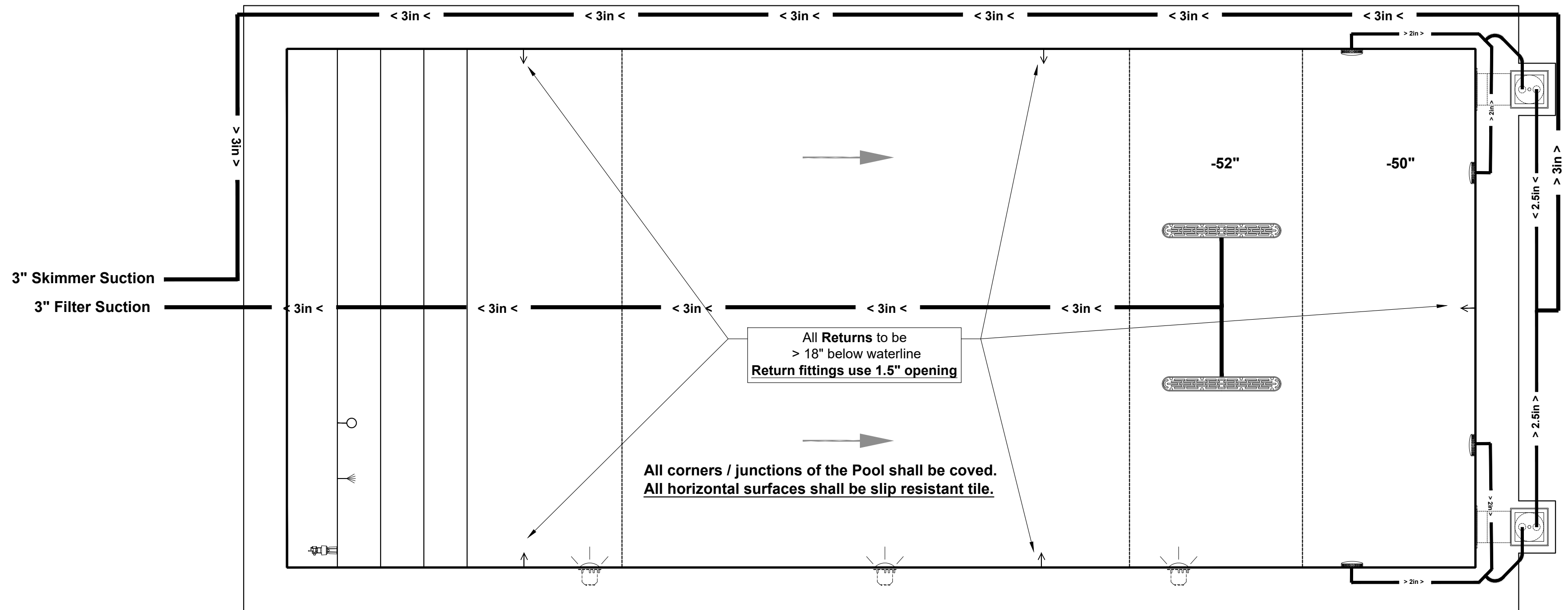
DATE: _____
 APPROVAL: _____

GROUT

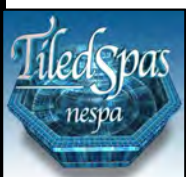
- #1 - SPA Field Grout: **Mapai Kerapoxy Epoxy White**
- #2 - SPA Waterline Grout: **Mapai Kerapoxy Charcoal**
- #3 - SPA Horizontal Lip Grout: **Mapai Kerapoxy Charcoal**

- #1 - FIELD TILE: **DAL TILE - D617 Arctic White - 2 X 2**
- #2 - WATERLINE : **Fujiwa 3x3 BLACK VIP 714 - Gloss Finish**
- #3 - TRIM TILE: **DAL TILE 2x2 BLACK D311 - Matte Finish**
- #4 - TILED LIP (Edge Trim): **DAL TILE C701 - D311 Black Matte**
- #5 - TILED LIP (Horizontal Field): **DAL TILE - D311 Black Matte**





NESPA ENTERPRISES INC.
2800 Richter Ave. Ste. C Oroville, CA 95966
Office: (530) 534-9910
E-Mail: jim@tiledspas.com Web
Site: www.tiledspas.com



SUBMITTAL

DWG-SIZE **C**

DWG **Modera Pool 1327**

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

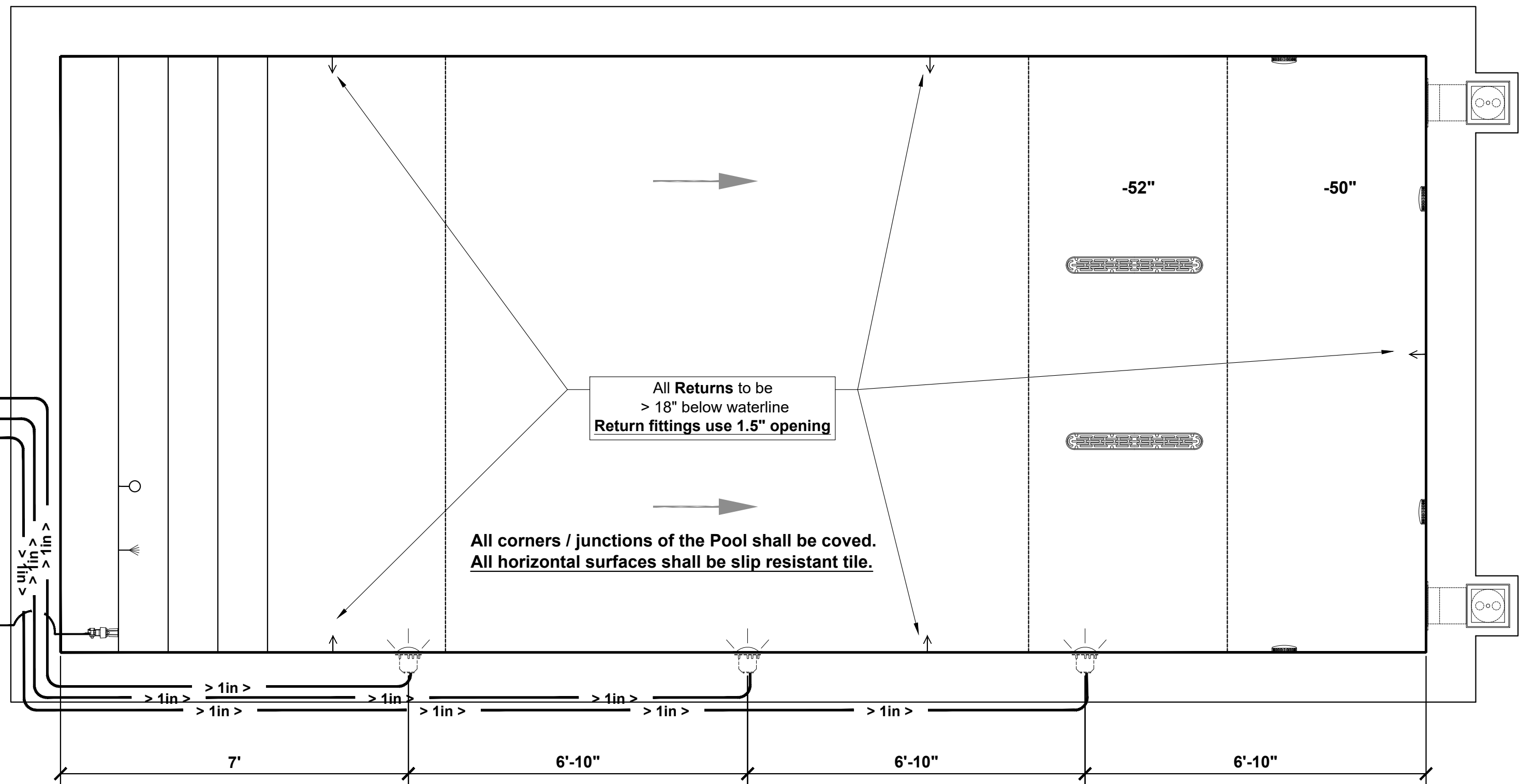
DATE: **12/19/2022**

TITLE **POOL PLUMBING Suction**

SHEET: **4a**

1" Light Conduit
1" Light Conduit
1" Light Conduit

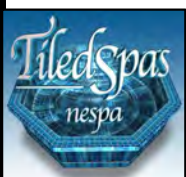
#8 Bond Wire



All Returns to be
> 18" below waterline
Return fittings use 1.5" opening

All corners / junctions of the Pool shall be covered.
All horizontal surfaces shall be slip resistant tile.

NESPA ENTERPRISES INC.
2800 Richter Ave. Ste. C Oroville, CA 95966
Office: (530) 534-9910
E-Mail: jim@tiledspas.com Web
Site: www.tiledspas.com



SUBMITTAL

DWG-SIZE **C**

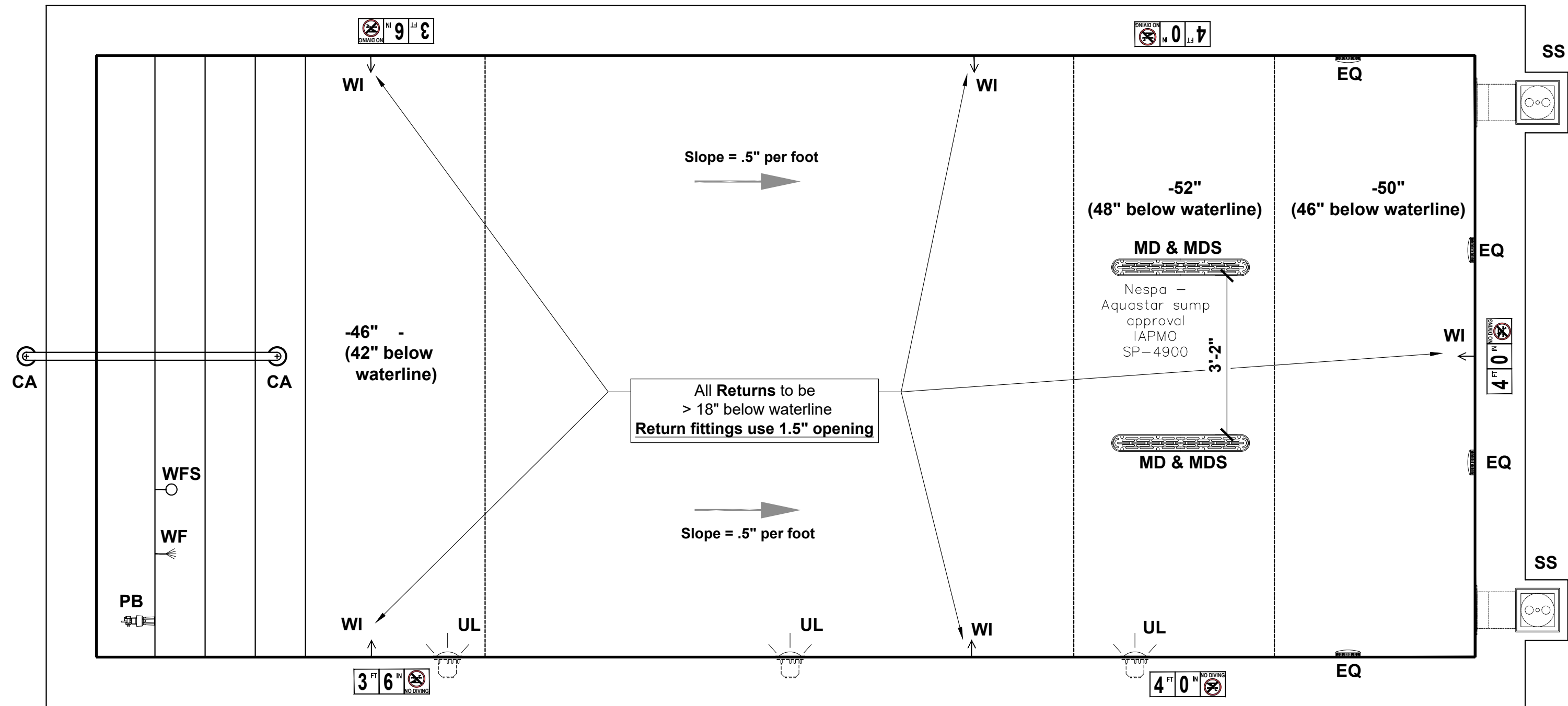
DWG **Modera Pool 1327**

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

DATE: **12/19/2022**

TITLE **POOL LIGHTING**

SHEET: **4c**



CODE	EQUIPMENT	DESCRIPTION	MANUFACTURER	CATALOG NO.	QTY.
SS		SURFACE SKIMMER - AUTOMATIC W/ EQUALIZER, NSF APPROVED	WATERWAY	540-6350	2
MD		MAIN DRAIN: AQUASTAR 32CDFLFR, 32" CHANNEL DRAIN, Approved Max Flow Rate: Floor = 316 GPM @ 3.9 fps Complies w/ ANSI / ASME A112.19.8 & NSF / ANSI 16-2011 - V.G.B. APPROVED	AQUASTAR	32CDFLFR101	2
MDS		Nespa Aquastar Approved Sump IAPMO Approval # SP4900	NESPA	NESPA.SD.32	2
EQ		6" Round Hockey puck - Sumpless Suction Outlet Floor 177 GPM - Wall 122 GPM Complies w/ ANSI / ASME A112.19.8 & ANSI / APSP-16 for anti-hair and body entrapment Suction outlets comply with ANSI / APSP-7	AQUASTAR	6HP101	4
WI		INLET FITTINGS 1-1/2" WALL TYPE W/ EYEBALL COMPLIES W/ ANSI CODE ASME A112.19.8-07 UL APPROVED	HYDROAIR	10-3500	5
WF		INLET FITTINGS 1-1/2" WALL TYPE W/ EYEBALL COMPLIES W/ ANSI CODE ASME A112.19.8-07 UL APPROVED	HYDROAIR	10-3500	1
WFS		WATER FILL SENSOR	HYDROAIR	10-3500	1
UL		Pentair Intellibrite 5G White Pool Light 12V LED - 300W - 50' Cord	PENTAIR	-	3
HR		HAND RAIL, STAINLESS STEEL, 5' LENGTH,	CUSTOM	H-Rail	1
CA		CUP ANCHOR: 6" BIG BOY SOCKET - USES PW-4C WEDGE	PERMA-CAST	PS-6019-BC	8
PB		POOL BOND	PERMA-CAST	PB-2008	1

NESPA ENTERPRISES INC.
 2800 Richter Ave. Ste. C Oroville, CA 95966
 Office: (530) 534-9910
 E-Mail: jim@tiledspas.com Web
 Site: www.tiledspas.com



SUBMITTAL

DWG-SIZE **C**

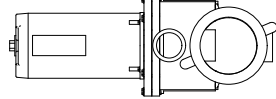
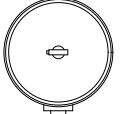
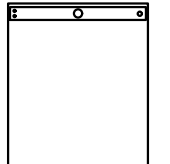




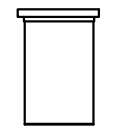


DWG **Modera Pool 1327**

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

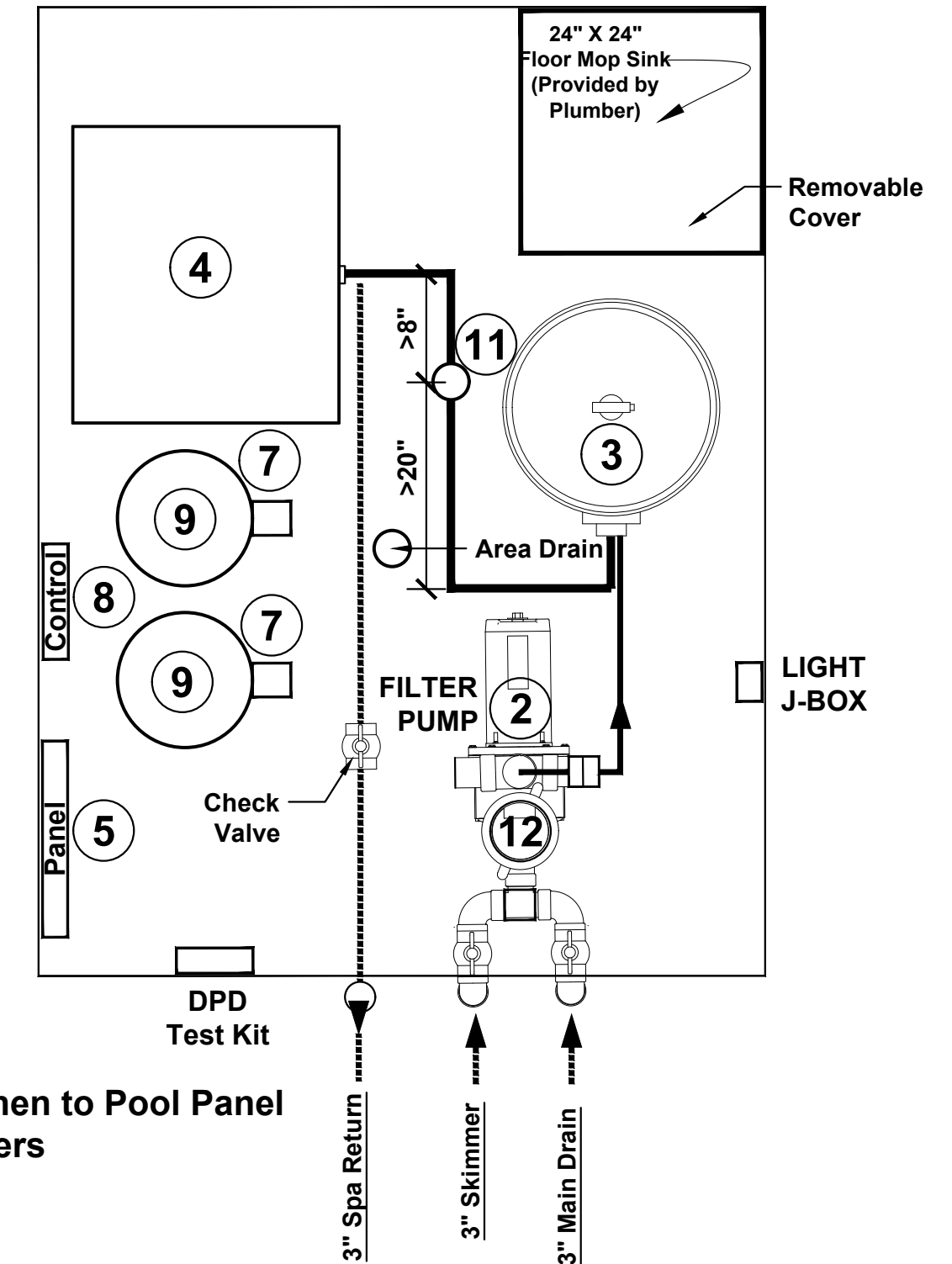
DATE: **12/19/2022**

TITLE **POOL EQ**

SHEET: **5**

EQUIPMENT LIST						
ITEM	CODE	EQUIPMENT	DESCRIPTION	MANUFACTURER	CATALOG NO.	QTY.
1						
2	FP		Superflo VS - Rated at 73 GPM	PENTAIR	342001	1
3	F		FILTER AND INFLUENT PRESSURE GAUGE Clean & Clear Model	PENTAIR	CCP-420	1
4	H		RAYPAK NATURAL GAS HEATER LOW NOX ASME 399 BTU -110V	RAYPAK	C-R406A	1
5	CPAN		CONTROL PANEL INTELLICENTER POWER CENTER WITH PERSONALITY KIT 521914 AND WIRELESS KIT	PENTAIR	LX 820	1
6	WS		1" POTABLE WATER SUPPLY w/ 1" Zurn Wilkins Backflow Preventer	Zurn Wilkins	1-975XL	1
7	CP		CHEMICAL PUMPS - STENNER MODEL 45M2 10 GPD	STENNER	45M2	2
8	CC		CHEMICAL CONTROL - PENTAIR INTELLICHEM	PENTAIR	521357	1
9	CCT		CHEMICAL PUMPS AND TANKS STENNER PUMPS US PLASTICS GEMINI 10 GAL DOUBLE WALL TANKS MODEL 3897	STENNER	45M2	2
10	CTK		CHEMICAL TEST KIT - TAYLOR MODEL-K2000, DPD, PH	TAYLOR	K2000	1
11	FM		FLOWMETER - BLUE WHITE MODEL F-300 FOR 2" PIPE	BLUE WHITE	F-300	1
12	VG		VACUUM GAUGE	-	-	2

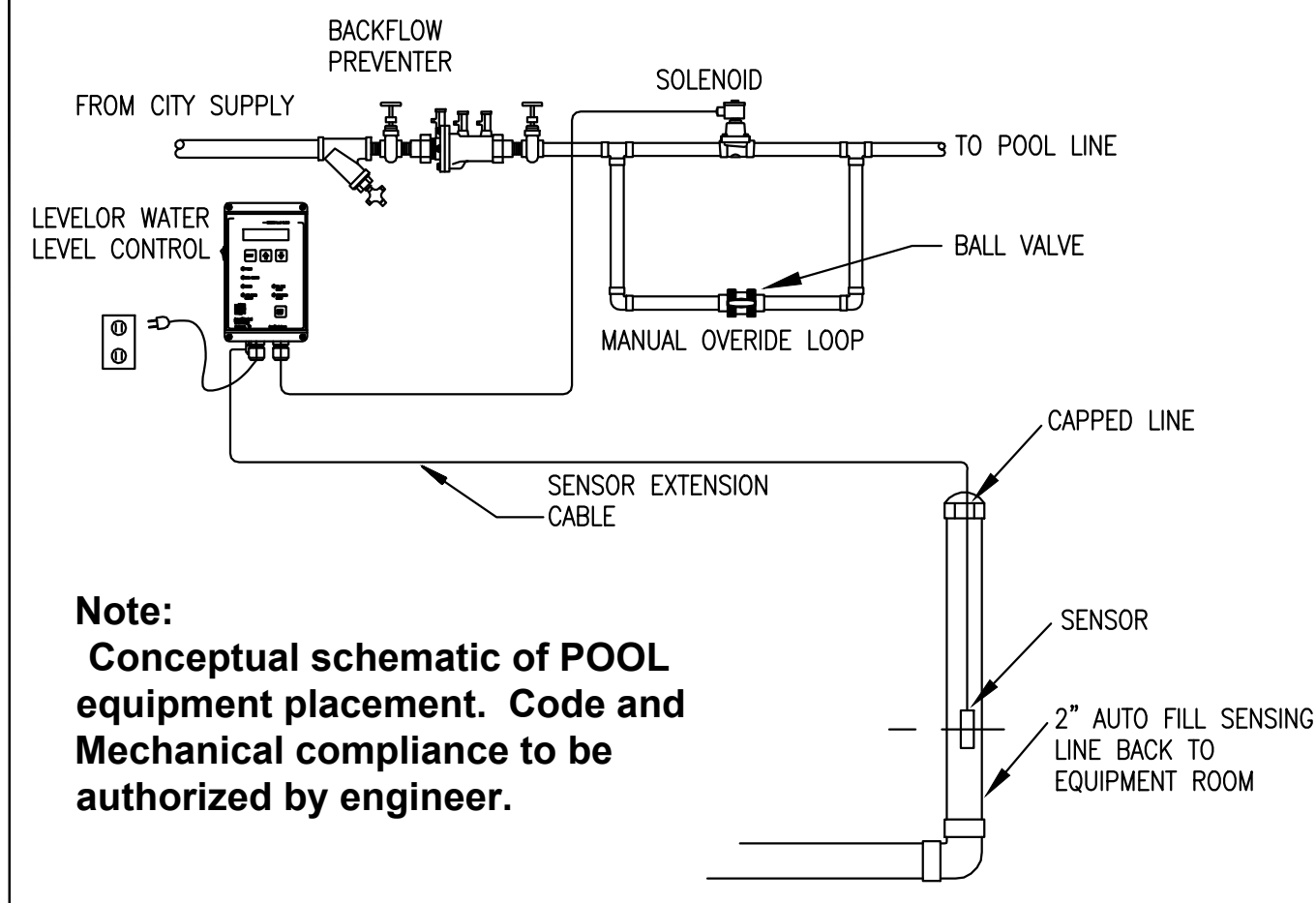
POOL EQUIPMENT



NOTES:

- All Equipment wired to Control Panel and then to Pool Panel
- All breakers to be GFI - use Siemens Breakers
- Bonding by Electrician - #8 Bare
- Nespa installs Rail Bonds & Pool Bond

WATER LEVEL CONTROL



NESPA ENTERPRISES INC.
2800 Richter Ave. Ste. C Oroville, CA 95966
Office: (530) 534-9910
E-Mail: jim@tiledspas.com Web
Site: www.tiledspas.com



SUBMITTAL

DWG-SIZE **C**

DWG

Modera Pool 1327

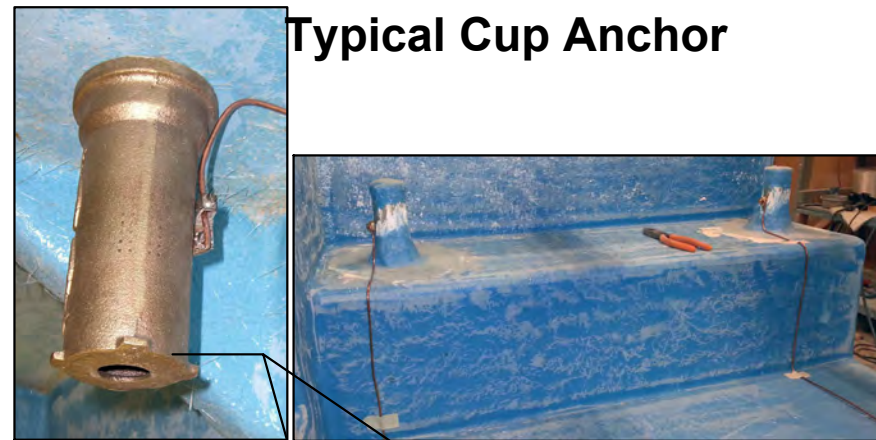
SCALE: N/A

DATE: 12/19/2022

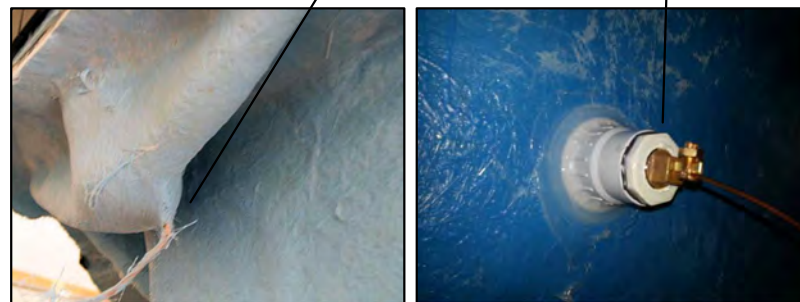
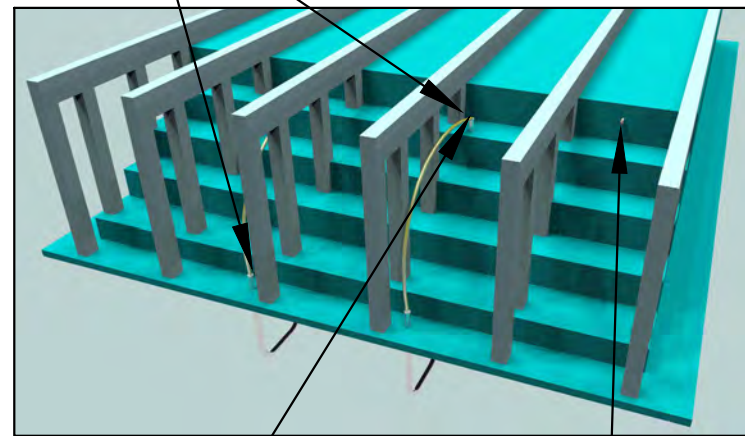
TITLE: POOL EXT EQ

SHEET: 6

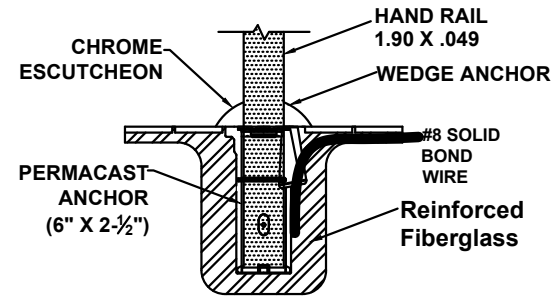
BONDING DETAIL



Typical Cup Anchor



TYPICAL NESPA SHELL CUP Anchor Installation



NOTE:

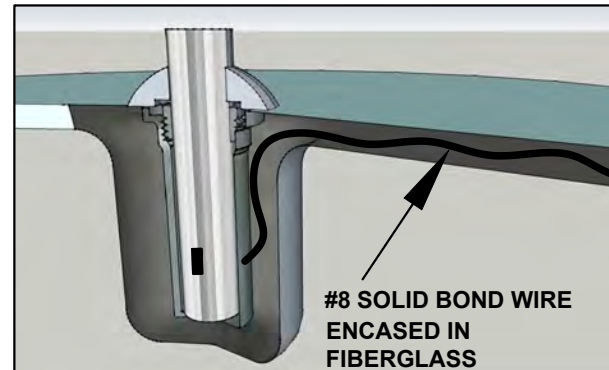
DETAIL REFLECTS ANCHOR INSTALLATION IN NESPA SHELLS ONLY.

CUP ANCHOR SHALL BE BONDED WITH A SOLID #8 COPPER BOND WIRE AND VERIFIED BY A CALIFORNIA LICENSED ELECTRICAL CONTRACTOR.

BOND WIRE WILL BE ENCASED AND COVERED IN FIBERGLASS TO PREVENT WATER LEAKAGE THRU SHELL.

BOND WIRE SHALL EXIT AT EDGE OF SPA AND ATTACH TO DECK BONDING GRID.

1 Anchor Detail



Permacast Swimming Pool Products
1871 Aspen Circle • Pueblo, Colorado 81008 • Phone: 719-544-3108

PS-6019-BC
6 Inch Big Boy Socket

QTY	DESCRIPTION
1	PS-6019-BC Socket Bronze
1	PW-40 Wedge
1	Stainless Steel Washer
1	3/8" x 1/2" x 1/8" SS Bolt
1	1/2" x 1/2" x 3/8" Brass Screw

- 8" Deep Socket
- Accommodates 1.50" OD Tiling
- Uses PV-AC Wedge
- Includes Wedge, Washer, Bolt and Bonding Screw

PoolBond By **Permacast**

THE 2008 NATIONAL ELECTRICAL CODE (NEC) REQUIRES THAT AN INTENTIONAL ELECTRICAL BOND BE MADE TO THE POOL WATER. THIS REQUIREMENT IS SPELLED OUT IN SECTION 680.26(C) OF THE NEC. THIS REQUIREMENT COVERS BOTH INGROUND AND ABOVE GROUND POOLS, SPAS, AND FOUNTAINS.

PASS ELECTRICAL INSPECTION WITH POOLBOND

- PREMIUM CORROSION RESISTANT BRONZE CASTING
- 1" MALE PIPE THREADS PROVIDES DIRECT INSTALLATION TO YOUR POOL, SPA, AND FOUNTAIN PLUMBING
- 10.5 SQUARE INCHES OF SURFACE AREA CONTACTS THE POOL WATER
- SPLIT BOLT LUG PROVIDES EASY & RELIABLE CONNECTION TO BONDING WIRE

POOLBOND PB-2008

UL LISTED 407E

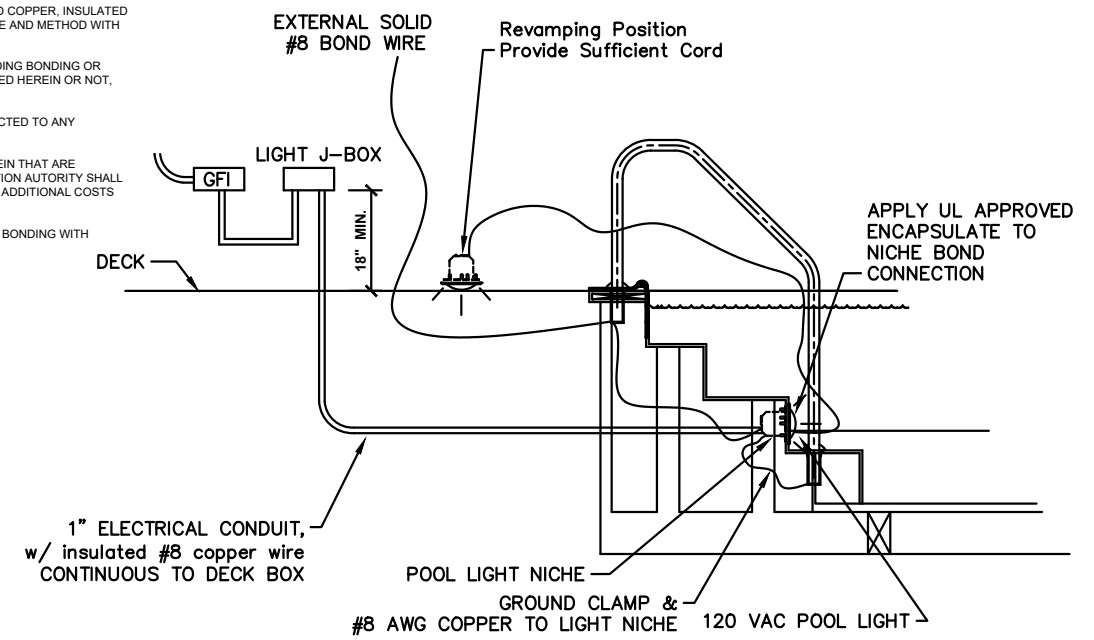
Available Through Distribution Nationwide

1871 Aspen Circle • Pueblo, Colorado 81008 • Phone: 800-748-2770 • Fax: 719-544-3108
Visit Us At www.permacastonline.com

POOL BONDING REQUIREMENTS:

- THE FOLLOWING PARTS SHALL BE BONDED TOGETHER AND CONNECTED TO THE COMMON BONDING GRID:
 - ALL THE METALLIC PARTS OF THE POOL STRUCTURE INCLUDING COPING STONES, DECK, PERMANENT PLAY STRUCTURES, PERMANENT EXERCISE STRUCTURES.
 - ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL STRUCTURE.
 - METAL PARTS ASSOCIATED WITH THE POOL WATER CIRCULATING SYSTEM, INCLUDING PUMPS, FILTERS, AND HEATERS.
 - METAL PARTS ASSOCIATED WITH POOL COVERS.
 - METAL SHEATHED CABLES AND RACEWAYS, METAL PIPING AND ALL FIXED METAL PARTS WITHIN 5 FEET HORIZONTALLY OF INSIDE WALLS OF POOL AND WITHIN 12 FEET ABOVE MAXIMUM WATER LEVEL OF POOL.
 - METAL PARTS ASSOCIATED WITH OBSERVATION STANDS, TOWERS, PLATFORMS, AND DIVING STRUCTURES.
- BONDING CONDUCTORS SHALL BE MINIMUM #8 SOLID COPPER, INSULATED E.C. SHALL COORDINATE APPROVED CONNECTOR TYPE AND METHOD WITH LOCAL ELECTRICAL AND/OR POOL INSPECTOR.
- SPECIFIC MANUFACTURER'S INSTRUCTIONS REGARDING BONDING OR GROUNDING OF POOL EQUIPMENT, WHETHER INDICATED HEREIN OR NOT, SHALL BE STRICTLY FOLLOWED.
- THE COMMON BONDING GRID SHALL NOT BE CONNECTED TO ANY ELECTRICAL DISTRIBUTION EQUIPMENT.
- ANY PARTS IN ADDITION TO THOSE DESCRIBED HEREIN THAT ARE INDICATED BY POOL CONTRACTOR OR LOCAL INSPECTION AUTHORITY SHALL BE BONDED TO THE COMMON BONDING GRID WITH NO ADDITIONAL COSTS INCURRED BY THE OWNER.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE BONDING WITH GENERAL CONTRACTOR.

LIGHT DETAIL



SUBMITTAL

NESPA ENTERPRISES INC.
2800 Richter Ave. Ste. C Oroville, CA 95966
Office: (530) 534-9910 Fax: (530) 534-9915
E-Mail: jim@tiledspas.com Web Site: www.tiledspas.com



"C" Size Sheet

SCALE N/A

DWG TYPE
Details

DWG NAME
MODERA ARGYLE

DATE
12/19/2022

SHEET
PAGE 1 OF 1

REQUIRED SIGNS. All signs shall have clearly legible letters or numbers not less than 4 inches high, unless otherwise noted, fixed to a wall, pole, gate or similar permanent structure in a location visible to all pool users.

POOL CAPACITY SIGN - A sign shall indicate the maximum number of pool users permitted for each pool. [In letters and numbers not less than 4 inches high]. The pool user capacity of a spa pool shall be based one pool user for every 10 square feet of pool water surface area. The pool user capacity for all other pools shall be based on one pool user for every 20 square feet of pool water surface area. Pool user capacity requirements do not apply to wading pools or spray grounds

NO DIVING SIGN. Signs shall be posted in conspicuous places and shall state, "NO DIVING" at pools with a maximum water depth of 6 feet or less. [In letters not less than 4 inches high].

NO LIFEGUARD SIGN - Where no lifeguard service is provided, a sign shall be posted stating, "NO LIFEGUARD ON DUTY." [In letters not less than 4 inches high]. The sign also shall state [in letters not less than 1 inch high], "Children Under the Age of 14 Shall Not Use Pool Without A Parent or Adult Guardian In Attendance."

ARTIFICIAL RESPIRATION AND CARDIOPULMONARY RESUSCITATION SIGN - An illustrated diagram with text [not less than 1/4 inch high] of artificial respiration and CPR procedures shall be posted.

EMERGENCY SIGN - The emergency telephone number 911, the number of the nearest emergency services, and the name and street address of the pool facility shall be posted. [In letters and numbers not less than 1 inch high].

SPA WARNING SIGN - A warning sign for spa pools shall be posted stating, "CAUTION" and shall include the following language [in letters not less than 1 inch high]:

- a. Elderly persons, pregnant women, infants and those with health conditions requiring medical care should consult with a physician before entering the spa.
- b. Unsupervised use by children under the age of 14 is prohibited.
- c. Hot water immersion while under the influence of alcohol, narcotics, drugs or medicines may lead to serious consequences and is not recommended.
- d. Do not use alone.
- e. Long exposure may result in hyperthermia, nausea, dizziness or fainting.

EMERGENCY SHUT-OFF SWITCH SIGN - [In letters not less than 1 inch high], a sign shall be posted at the spa emergency shut off switch stating, "EMERGENCY SHUT-OFF SWITCH."

KEEP CLOSED SIGN - A sign shall be posted on the exterior side of gates and doors leading into the pool enclosure area stating, "KEEP CLOSED" [In letters not less than 4 inches high].

DIARRHEA NOTICE SIGN - A sign [in letters not less than 1 inch high] and in a language or diagram that is clearly stated shall be posted at the entrance area of a public pool which states that persons having currently active diarrhea or who have had active diarrhea within the previous 14 days shall not be allowed to enter the pool water. This sign may be posted with all the other safety signs.



BONDING DETAIL

SUBMITTAL

NESPA ENTERPRISES INC.
 2800 Richter Ave. Ste. C Oroville, CA 95966
 Office: (530) 534-9910 Fax: (530) 534-9915
 E-Mail: jim@tiledspas.com Web Site: www.tiledspas.com



"C" Size Sheet

SCALE N/A

DWG TYPE
 Details (2)

DWG NAME
 MODERA ARGYLE

DATE
 12/19/2022

SHEET
 PAGE 1 OF 1



VGBA-2017 PRODUCT SPECIFICATIONS
Suction Outlet Fitting Assembly (SOFA)
 VGBA-2017 Flow Ratings, Sump Dimensions,
 Sump Flow Path Zone, and Head Loss Curves

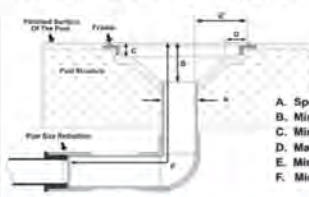


Certified to
 NSF/ANSI/CAN 50
 ANSI/APSP/ICC-16-2017

DIRECTIONS: Please follow the SOFA specific flow rates, sump specifications, and flow path zone information below. The installation must conform to these minimum/maximum requirements including the SOFA dimension defined in Figure 1. The flow path zone is defined by dimensions A through E. The installed sump may be manufactured or field-built and it may be larger/deeper than Figure 1. Please write the Cover Model Number, orientation, and SOFA Model Flow Rating on the VGBA DRAIN COVER IDENTIFICATION INFORMATION label that comes with each AquaStar Pool Products, Inc. drain cover.

Cover Model Number:
 6HPHAxxx

FIGURE 1 - SOFA MODEL & FLOW PATH



- A. Specified PVC Pipe Size
- B. Minimum Sump Depth
- C. Minimum Ledge Depth
- D. Maximum Ledge Width
- E. Minimum Pipe Offset
- F. Minimum Length Before Reduction

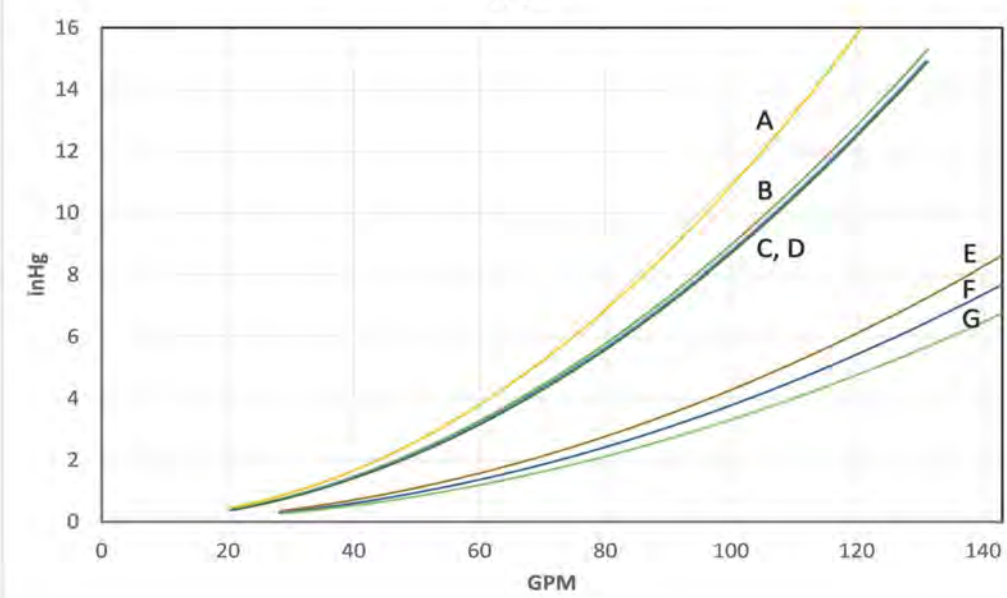
FOR MOST CURRENT INFORMATION
 SCAN THE QR CODE OR VISIT
 WWW.AQUASTARPOOLPRODUCTS.COM/LOWCODE
PRINTED DOCUMENTS MAY NOT HAVE THE MOST CURRENT FLOW
 RATINGS OR INSTALLATION OPTIONS.



SOFA Model No.	Pipe Size (Nominal)	Pipe Depth (Minimum)	Orientation (Wall / Floor)	Flow Rating (GPM)	Head Loss Curve
6HPHA-615SI-6w_A-1.5b_B0_C0_D0_E2.4_F16	1.5" (b)	0"	Wall (w)	104	A
6HPHA-615T-6w_A-1.5b_B0_C0_D0_E2.29_F16	1.5" (b)	0"	Wall (w)	104	B
6HPHA-6E15T-6w_A-1.5b_B0_C0_D0_E2.3_F16	1.5" (b)	0"	Wall (w)	104	C
6HPHA-620T15S-6w_A-1.5b_B0_C0_D0_E2.16_F16	1.5" (b)	0"	Wall (w)	104	D
6HPHA-620SI-6w_A-2b_B0_C0_D0_E2.15_F16	2" (b)	0"	Wall (w)	143	E
6HPHA-625T20S-6w_A-2b_B0_C0_D0_E1.8_F16	2" (b)	0"	Wall (w)	143	F
6HPHA-RND-6w_A-2b_B0_C0_D0_E1.81_F16	2" (b)	0"	Wall (w)	143	G

Note 1: "SOFA Model No" nomenclature: bottom pipe = (b), side pipe = (s). See Fig 1 for capital letters A through E.
 Note 2: Head loss inHg is measured 16 to 24 inches from the finish surface of the pool. Reference Fig 1 dimension F.
 Note 3: SOFA Model Number is the combination of the Cover PN + Fitting PN.

6HPHA Head Loss Curves
 Wall



**AquaStar - 6HPHA101
 is approved for
 fiberglass applications**

**6" ROUND HOCKEY PUCK SUMPLESS SUCTION OUTLET COVER,
 HYDROAIR/ITT REPLACEMENT**



Certified to
 NSF/ANSI/CAN 50
 ANSI/APSP/ICC-16-2017

Open Area
 10.4 in²

For SOFA Specific Flow Ratings and
 specifications please scan QR code or visit
 www.aquastarpoolproducts.com/flowrds



FEATURES

Certified, Listed, and Labeled in
 conformance with APSP/ANSI/ICC-16-2017
 and NSF/ANSI/CAN 50 standards.
 See next page for seven adapter plates
 sold separately, available for sumpless
 connections to 102s, 1 1/2" female adapters,
 1 1/2" and 2" inside and outside slip and
 threads.
 Easily and safely retrofits many
 Hydroair/ITT parts.
 Manufactured from superior UV-resistant
 engineered polymers.
 #316 stainless steel screws.
 Trademarked VGBA compliance button
 easily identifies VGBA 2017 compliant cover
 from on deck and underwater.
 Online product support including
 downloadable CAD files, General Certificate
 of Conformity, third-party certificate,
 installation instructions and more.
 Replace drain cover every five years from
 the date of installation.
 25 per case

No sump required!

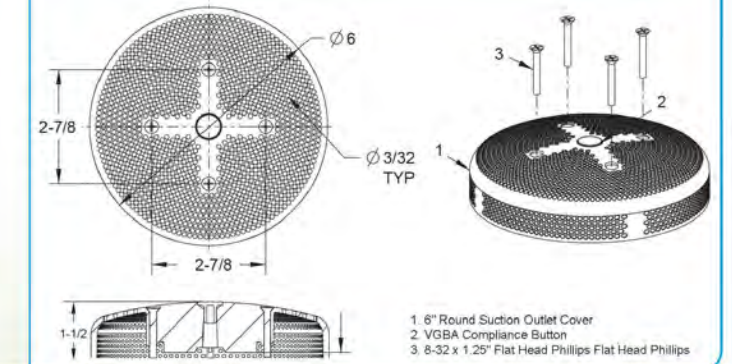


Part # 6HPHAxxx

STANDARD COLORS

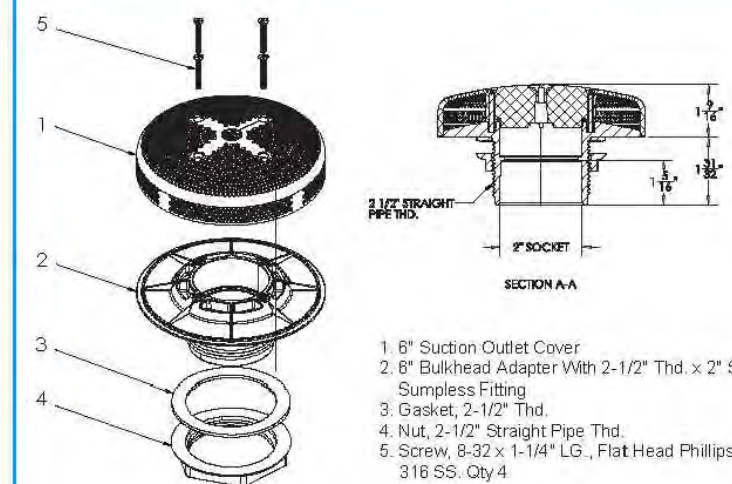
- 6HPHA101 - White
- 6HPHA102 - Black
- 6HPHA103 - Light Gray
- 6HPHA105 - Dark Gray
- 6HPHA108 - Tan

Replaces p/n 6HPxxx



P 877-768-2717 F 877-276-POOL Outside the US: P +1-949-336-1940 F +1-949-336-1940
 info@aquastarpoolproducts.com www.aquastarpoolproducts.com

**6" Bulkhead Adapter with 2 1/2" Thread and 2" Socket for Fiberglass/
 Steel, with Gasket and 2 1/2" Locking Nut**



Part #
 6HA25T20Sxxx

SUBMITTAL

NESPA ENTERPRISES INC.
 2800 Richter Ave. Ste. C Oroville, CA 95966
 Office: (530) 534-9910 Fax: (530) 534-9915
 E-Mail: jim@tiledspas.com Web Site: www.tiledspas.com



"C" Size Sheet

SCALE **N/A**

DWG TYPE
Details (3)

DWG NAME
MODERA ARGYLE

DATE
12/27/2022

SHEET
PAGE 1 OF 1

STANDARD NESPA ABOVE GROUND INSTALLATION INSTRUCTIONS SET-UP AND PREPARATION

Prerequisites: Before installing your Nespa spa. You may be required to acquire a permit from your local State, County, and City Building Departments and or Health Department. (Commercial jobs need Health Dept. Approval). Your spa installation must comply with the most current codes. (**International Swimming Pool, Spas & Hot Tub Code 2021 (ISPSC 2021)**).

Spa drawings: Nespa Tiled Spas provides current spa specific construction details only. Spa plan, sections, Tile specification, spa plumbing detail. Each project has its own submittal drawings pertaining to spa vessel and plumbing only. Nespa vessels are free standing and supporting. No exterior lateral support is required. All building structural support for spa is by others. Do not rely on any website posted model. (Possibly outdated or custom)

Delivery Access: Clearly determine the method of getting the spa to jobsite and into the hole. This may require the use of a crane, forklift, hoist, backhoe and/or manpower etc. Each spa arrives with Spa lifting bolts for crane or rigging connections. This connection point is provided for crane or rigging connection. These eyebolts are removable after delivery.

ABOVE-GROUND The following instructions are general guidelines and may not apply to your specific jobsite conditions. Owner/Contractor to provide spa support structure capable of supporting spa load /weight with water and people. Owner/contractor all plumbing, electrical, control electrical and light connection clearances as required by code. This 10” clearance is to accommodate jet and suction plumbing. This 10” clearance can change or be reduced upon request. Note: skimmer location, this area may have to be larger than 10”, if commercial 22”.

- 1) **Freeze Climates-** If the spa is to be installed into a vault (typical of freeze climates) a standard clearance from vault wall to wall of spa should be 24” or more. If limited space is available contact Nespa for options. This area around spa is for possible future access to spa plumbing in case of a freeze. Area drain or sump pump in vault is mandatory. **Ask your local installer** for his experienced opinion. Do not hesitate to call us because we want to be sure that your installation progresses as smoothly as possible. If you have questions call us. (530) 534-9910.
- 2) **Hole depth** is determined by spa’s outside height dimension. This height may vary depending on if spa has skids or no skids. The spa lip may be finished or non-finished. How is the perimeter deck elevation transitioning to the spa? Focus on the finish surrounding deck elevations, thickness of the finish material on spa upper horizontal lip, equal to lip or under the spa lip. This material can be tile, stone, concrete or brick.
- 3) **Pre-plumb:** Nespa factory installs all fittings, suction and jets into spa before it goes into the hole. All vessels are factory water tested and plumbing is tested for 48 hours. If there are needs for electrical, bonding or control conduits run them as well before dropping in hole. Connecting a bond wire to the niche would be best practice.
- 4) **Support Pad:** Spa should sit on surface engineered to support the weight of vessel with water and people. Others to provide a level support platform. Support platform design and engineering is the responsibility of owner/contractor. Sweep debris off landing area prior to dropping in hole.
- 5) **Install spa** into the hole on top of support platform. Use the factory support lifting eye bolts provided for

crane, forklift rigging etc. Do not hold onto pipes. Use caution with suction and jet plumbing when lowering into hole. **DO NOT STRESS FITTINGS!** Fill Spa with water and check for leaks prior to backfill.

- 6) **Check site reference** points for proper spa positioning (i.e., squaring to house, garage, etc.).
- 7) **Shim to level spa.** Shim with non-compressible material. Re-square to house, or ref. point.
- 8) **Dry pack under spa support skids,** with cement, the gaps that have been created when shimming spa level.
- 9) **Connect pipes to tees** if spa is pre-plumbed. Installers should properly support your new plumbing from stressing the spas pre-plumbed fittings. After electrical conduit and bond wire is connected to light niche, water test spa before back filling with sand.

NOTE: All Nespa products are water tested prior to leaving factory.

ELECTRICAL:

- 1) All electrical connections to spa or equipment shall comply with the most recent national electrical code (NEC), state and local codes.
- 2) Connect electrical conduit to light niche. This work shall be done or reviewed by a licensed electrician.
- 3) To install a spa light you will need to include, inside the PVC conduit to the light niche, a solid #8 coated copper wire. (If you are using brass conduit, internal bond wire is not required.) This bond wire should be pulled with the light cord at the same time. This bond wire needs to be attached to the internal bonding lug of the light niche. An approved encapsulate should be applied to bond wire connection in niche.
- 4) An external #8 copper wire shall be connected to the external bonding lug on the rear of the light niche. This copper wire can then be used for additional bonding requirements (i.e., handrails or any other metallic object within 5' of the spa).

PLUMBING:

- 1) When plumbing a Nespa it is important to properly size the plumbing. We highly recommend that you follow the pump manufacturer's pipe sizing requirements and International Swimming Pool, Spas & Hot Tub Code 2021 (ISCSP 2021).
- 2) We recommend that you consult a pool professional to specify spa plumbing hydraulics.
- 3) The Nespa shells are water tested and pressure tested prior to shipping.
- 4) All plumbing inground or exterior to spa shell should be pressure tested at 35 psi (one hour minimum).
- 5) Fill spa with water and test the system for leaks.

WATERPROOFING

- 1) Waterproofing is the responsibility of owner/contractor. Waterproof Spa Vault or containment structure to have area drain. Nespa does not provide waterproof guidelines, we recommend that owner hires waterproof professionals.
- 2) If spa is free standing on elevated deck or a structure, it is important to fill spa with water and load area prior to installing coping or perimeter decking. If spa is installed in a vault situation an area drain is needed.

NESPA ENTERPRISES, Inc. LIMITED WARRANTY

This LIMITED WARRANTY covering NESPA products is extended to the ORIGINAL PURCHASER-USER BY NESPA ENTERPRISES Inc.(NESPA), 2800 Richter Ave. Unit C California 95966.

NESPA products are thoroughly inspected and tested prior to factory shipment. NESPA warrants to the ORIGINAL PURCHASER-USER that NESPA Spas and Pools will be free of defect in workmanship, accessories, and parts, provided said accessories and parts were manufactured by NESPA. NESPA, under this LIMITED WARRANTY, warrants only that its Spas and Pools shall be structurally sound, shall retain their shape, and shall retain water for the warranty period. NESPA warrants the adhesion of tile to fiberglass for a period of two (2) years (salt systems 1 year) and structural soundness for fifteen (15) years. NESPA warrants epoxy grout adhesion for a period of three (3) years. NESPA warrants factory installed plumbing for a period of two (2) years. If any such defects appear and are reported within the warranty period, NESPA shall repair or replace such defective parts without charge if an inspection proves the claim. All materials provided to Nespa and installed ie; tile, grout, lights, control center, spa side controls, pumps, and Equipment packs are warranted by the original manufacturer for one year.

The provisions of the LIMITED WARRANTY shall not apply to tile cracked, split, chipped or damaged after the product has left the factory, nor damage to tile caused by freezing nor to damage, defect, malfunction or failure to conform with the above warranty provisions where the damage, defect, malfunction or failure to conform was caused during shipment/delivery or by distributor or by unreasonable use or storage during construction by ORIGINAL PURCHASER-USER including improper water balance, cleaning, water or electrical supply to spa or surface and plumbing protection.

This LIMITED WARRANTY shall not apply to any plumbing, equipment, or installation of Spas and Pools and shall not apply to any alterations made to or upon NESPA products except alterations made by NESPA employees or NESPA authorized representatives.

This LIMITED WARRANTY is expressly in lieu of all other warranties expressed or implied including the warranties of merchantability and fitness for use and all other obligations or liabilities on NESPA'S part, and NESPA neither assumes nor authorizes any other person to assume for NESPA any other liability in connection with the sale of this NESPA product. This LIMITED WARRANTY shall not apply to this NESPA product or any part thereof which has been subject to accident, negligence, alteration, abuse or misuse. NESPA makes no warranty whatsoever with respect to accessories or parts not manufactured by NESPA.

The term "ORIGINAL PURCHASER-USER" as used in this LIMITED WARRANTY shall be deemed to mean that person for whom the NESPA product is originally installed.

The LIMITED WARRANTY provided herein and the obligations and liabilities of NESPA hereunder are exclusive and are in lieu of, and buyer and original PURCHASE-USER hereby waive all other remedies, warranties, guarantees or liabilities, expressed or implied, arising by law or otherwise (including without limitation and obligations of NESPA with respect to fitness, merchantability, and consequential damages) or whether or not occasioned by NESPA'S negligence.

This LIMITED WARRANTY shall not be extended, altered or varied except by a written instrument signed by NESPA and original PURCHASER-USER.

RECOMMENDED MAINTENANCE

Please Note:

These are only recommended guidelines to care for a Nespa all tiled spa. Local codes may require additional procedures, therefore consult with a pool professional that is LA county Health Department certified for more information on local codes and requirements.

SPA SURFACE

Your spa tile is acid resistant and frost-proof. The Tile does not absorb germs or algae. Tile does not stain and is very easy to clean. Color does not fade or lose its luster. All grouts are epoxy based and are extremely durable. To remove scum line use soft nylon brush and small amounts of biodegradable soaps. Do not use abrasive brushes or chemicals.

MAINTENANCE

A. CHEMICALS:

- 1) It is important to maintain a chlorine residual of 2 PPM in the spa. That residual can be provided by chlorine or bromine.
- 2) It is recommended to use Bromine or dichlor (granular) forms of chlorine. If bromine Tabs are used we suggest floating or inline dispenser.
- 3) Never use acid to lower Ph in the tile spa.
- 4) Never use trichlor chlorine (1" or 3") tablets in the Nespa spas.
- 5) Never place tablets in skimmer basket.

B. DRAINING THE SPA:

- 1) It is recommended to drain the spa at least once every 2 months depending on bath load and water clarity.
- 2) The spa should be drained through valve exiting re-circulation pump in the spa equipment room or sump pump.
- 3) Note: Use caution to drain spa in the winter months or rainy season when water table is at its highest. It is possible for the spa to float due to hydraulic pressure from surrounding water table. We advise that you consult with your local spa specialist prior to draining the spa.

C. SPA EQUIPMENT:

- 1) Clean filter cartridge at least once every month, or when needed; i.e., if water clarity does not improve after several days.
- 2) Keep area free and clear from leaves and debris build-up.
- 3) Keep area free and clear from flooding.

D. SPA LIGHT:

- 1) Spa light has to be on GFCI circuit. It is controlled at spa side with ON/OFF.

E. TILE SERVICING:

- 1) Contact manufacture when servicing tile or grout. @ (530) 534-9910