

**CODE REQUIREMENTS**

1. ALL CONSTRUCTION RELATED TO THE POOL AND SURROUNDING POOL AREA SHALL BE IN FULL ACCORDANCE WITH THE LAC TITLE 51 XXIV CODE, AND ALL OTHER APPLICABLE CODES, AND STANDARDS.
  2. THIS POOL IS A NEW OUTDOOR POOL INSIDE A SECURE AREA. THE EQUIPMENT IS ALSO INSIDE A SECURE AREA.
- NOTE: GOING FORWARD WITHIN THIS DOCUMENT, ALL SUBSECTIONS REFERENCED FROM THE LAC TITLE XXIV CODE SHALL EXCLUDE 'LAC TITLE 51 XXIV CODE' AND LIST ONLY THE SPECIFIC SUBSECTION BEING REFERENCED. IT IS UNDERSTOOD THAT ALL SUBSECTIONS BEING REFERENCED WITHIN THIS DOCUMENT ARE UNDER LAC TITLE 51 XXIV CODE.

**DESIGN REQUIREMENTS**

1. PER 301.B - ALL INTERIOR SURFACES OF THE POOL SHALL RECEIVE A LIGHT COLORED PLASTER ON ALL SURFACES NOT TILED. PLASTER SHALL BE IVORY QUARTZ.
2. PER 305.A - ALL POOL WALLS SHALL BE VERTICAL AND PLUMB.
3. PER 311.A - THE MINIMUM WATER DEPTH ON THIS POOL DESIGN IS 4'-0".
4. PER 311.C - THIS POOL IS DESIGNED NOT TO EXCEED 5'-0" WATER DEPTH, THEREFORE NOT REQUIRING A BEGINNERS AREA THAT IS SEPARATED FROM THE DEEP END.
5. PER 311.E - DUE TO THE ESTABLISHED WATER DEPTHS, THERE WILL BE NO DIVING ALLOWED IN THIS POOL. ALL WATER DEPTH TILE MARKER LOCATIONS SHALL ALSO INCLUDE A 6"X6" INTERNATIONAL NO DIVING SYMBOL.
6. PER 315.A - THE POOL TURNOVER RATE SHALL BE SIZED AT 7 HOURS.
7. PER 317.D - THIS POOL WILL HAVE AN UNDERWATER SEAT BENCH THAT IS IN FULL COMPLIANCE WITH THE DOCUMENT ENTITLED "VARIANCE CRITERIA FOR UNDERWATER SEAT BENCHES" (SEE UNDERWATER SEAT BENCH REQUIREMENTS).
8. PER 323.B - THE POOL DECK, COPING AND STEP SURFACES SHALL BE CONSTRUCTED WITH SLIP RESISTANT AND EASILY CLEANABLE MATERIAL. THE COPING SHALL BE CONSTRUCTED WITH SAFETY GRIP.
9. PER 323.F.3 - THE MINIMUM CONTINUOUS UNOBSTRUCTED DECK WIDTH SHALL BE 4 FEET.
10. PER 323.G - THE POOL DECK SHALL BE SLOPED 1/4" PER 1 FOOT. (SEE PLAN SHEET PL-1.1 FOR SLOPE DIRECTION).
11. PER 323.J - CONTROL JOINTS AROUND THE COPING AND THROUGHOUT THE DECK SHALL BE CONSTRUCTED TO A MINIMUM WIDTH OF 1/8", AND SHALL BE WATER TIGHT IN FULL COMPLIANCE WITH THE LAC 51 CODE.
12. PER 323.O - POOL DECK SHALL BE SLOPED AS INDICATED ON SHEET PL-1.1.
13. PER 323.P - SITE DRAINAGE SHALL BE INSTALLED TO EFFECTIVELY SHED WATER FROM POOL DECK AND POOL, AND PREVENT FLOODING OR EROSION OF LANDSCAPING ONTO POOL DECK OR POOL.
14. PER 323.Q - ALL POOL CIRCULATION SYSTEM PIPING SHALL BE TESTED WITH AN INDUCED STATIC HYDRAULIC PRESSURE TEST AT 25 PSI FOR 30 MINUTES, AND SHALL BE PERFORMED BEFORE ANY OF THE PIPING IS COVERED UP. PIPING WILL BE PRESSURED DURING THE ENTIRE DURATION OF THE CONSTRUCTION PROCESS AS MUCH AS FEASIBLY POSSIBLE.
15. PER 323.S - TWO HOSE BIBBS WITH VACUUM BREAKERS SHALL BE PROVIDED FOR WASHING DOWN THE ENTIRE POOL DECK AREA.
16. PER 325 - THREE MEANS OF EXIT/EGRESS IS PROVIDED ON THIS POOL BY MEANS OF STAIRS AND LADDERS EACH WITH HANDRAIL(S).
17. PER 327 - ALL STAIR TREADS ARE 13", ALL RISERS ARE UNIFORMLY 10-13/16", WITH THE BOTTOM RISER VARYING NO MORE THAN PLUS OR MINUS 2". ONE HANDRAIL SHALL BE PROVIDED, AND SHALL BE NO MORE THAN 18 INCHES HORIZONTAL DISTANCE FROM THE FACE OF BOTTOM RISER. THE OUTSIDE DIAMETER OF THE HANDRAIL IS 1.90" O.D..
18. PER 329 - THE POOL LADDERS SHALL:
  - A. BE MADE ENTIRELY OF CORROSION-RESISTING MATERIALS
  - B. HAVE TWO HANDHOLDS OR TWO HANDRAILS.
  - C. HAVE A CLEARANCE OF NOT MORE THAN 6 INCHES NOR LESS THAN 3 INCHES BETWEEN ANY LADDER TREAD EDGE AND THE POOL WALL BELOW THE WATER LEVEL.
  - D. HAVE A MINIMUM OF 17 INCHES AND MAXIMUM OF 24 INCHES CLEAR DISTANCE BETWEEN LADDER HANDRAILS
  - E. HAVE A UNIFORM HEIGHT BETWEEN LADDER TREADS, WITH A 7-INCH MINIMUM DISTANCE AND A 12-INCH MAXIMUM DISTANCE.
  - F. HAVE A MINIMUM HORIZONTAL DEPTH OF 1-1/2 INCHES FOR THE LADDER TREADS.

**CIRCULATION SYSTEMS**

1. PER 501 - ALL POOL EQUIPMENT IS SIZED FOR A 7 HOUR TURNOVER, AND ALL POOL EQUIPMENT SHALL MEET NSF 50 PER.
2. PER 503.A - WATER VELOCITY FOR DISCHARGING PIPE SHALL NOT EXCEED 10FPS, AND THE VELOCITY FOR THE SUCTION PIPING SHALL NOT EXCEED 6 FPS.
3. PER 503.C.1 - THIS POOL SHALL BE PROVIDED WITH A FLOW METER SHOWING FLOW RATE THROUGH THE FILTER SYSTEM IN GALLONS PER MINUTE.
4. PER 505 - PROPERLY SIZED FILTER(S) SHALL BE PROVIDED WITH A SIGHT GLASS TO DETERMINE WATER CLARITY.
5. PER 507 - A RECIRCULATION PUMP SHALL BE PROVIDED THAT MEETS OR EXCEEDS THE DESIGNED FLOW RATE FOR THE POOL RECIRCULATION SYSTEM.
6. PER 504 - TWO (2) RETURN INLETS SHALL BE PROVIDED FOR EACH 600 S.F. OF POOL WATER SURFACE AREA. THIS POOL HAS BEEN DESIGNED WITH 6 RETURN INLETS IN THE MAIN POOL AREA AND TWO (2) RETURN INLETS IN THE TANNING SHELF FOR A TOTAL OF 8 RETURN INLETS (DIRECTIONAL EYEBALL INLETS) AS SHOWN PER PLAN PL-1.1. FOUR (4) MAIN DRAINS ARE TO BE LOCATED AS SHOWN ON PLANS.
7. PER 511 - ALL WALL RETURN INLETS SHALL BE ADJUSTABLE. THE WALL RETURN INLETS ARE ALL LOCATED BETWEEN 10 INCHES AND 15 INCHES BELOW THE POOL OVERFLOW LEVEL.
8. PER 513 - ALL SUCTION OUTLETS SHALL HAVE COVERS THAT MEET OR EXCEED THE VIRGINIA GRAM BAKER ACT (ANSI-APSP 16.2011) REQUIREMENTS. MAIN DRAINS SHALL BE SPACED AT 6'-0" FROM CENTER TO CENTER.
9. PER 515 - ONE (1) SURFACE SKIMMER SHALL BE PROVIDED FOR EVERY 500 SQ. FT. OF WATER SURFACE AREA. THIS POOL HAS BEEN DESIGNED WITH FOUR (4) SKIMMERS IN THE MAIN POOL AREA, ONE (1) SKIMMER IN THE TANNING SHELF AND ONE (1) SKIMMER IN THE BENCH.

**GENERAL STANDARDS**

1. PER 101 - ALL DEPTH MARKER REQUIREMENTS FOR THIS SECTION OF CODE ARE IDENTIFIED ON PLAN SHEET PL-1.2, DETAIL 03, AND REFERENCED ON PLAN PL-1.1.
2. PER 103 - THIS CLASS C POOL SHALL UTILIZE A 12FT. LONG STRONG POLE WITH SHEPARD'S HOOK (LIFESAVER HOOK), A 60 FT. THROWING ROPE AND RING BUOY, AND A TELEPHONE SHALL BE POSTED WITH EMERGENCY NAMES AND NUMBERS.
3. PER 107.A - ALL FRESH WATER SUPPLY LINES, AND BACKWASH LINES SHALL BE SEPARATED BY A 6" MINIMUM AIR GAP, PREVENTING A PHYSICAL CONNECTION OF THE FRESH WATER SUPPLY LINE, OR THE BACKWASH LINE TO THE POOL WATER BODY.

4. PER 111 - BACKWASH WATER SHALL BE DISCHARGED INTO A SANITARY SEWER LINE THROUGH A 6" MINIMUM AIR GAP.
5. PER 113.A - POOL CONTRACTOR AND ELECTRICAL SUB SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION AGENCY.
6. PER 115.A - THIS POOL WILL BE OPEN FOR USE DURING NON-DAYLIGHT HOURS, AND THEREFORE REQUIRES THAT AREA POOL LIGHTING, BOTH UNDERWATER AND ABOVE DECK LIGHTING COMBINED SHALL BE PROVIDED AT NOT LESS THAN 2 WATTS PER SQ FOOT OF DECK AREA. (NOTE: VALUES OF EFFICIENCY FOR INCANDESCENT LAMPS ARE ASSUMED TO BE 20 LAMP LUMENS PER WATT.
7. PER 117 - THE POOL EQUIPMENT SHALL BE INSTALLED OUTDOORS, NOT REQUIRING VENTILATION.
8. PER 131 - THIS POOL WILL NOT HAVE LIFEGUARDS, THEREFORE WARNING SIGNS SHALL BE POSTED THAT NO LIFEGUARD IS ON DUTY. ADDITIONAL SIGNS WITH RULES AND REGULATIONS SHALL BE POSTED IN A CONSPICUOUS PLACE TO INFORM POOL PATRONS.
9. PER 133.A - EMERGENCY EQUIPMENT SHALL BE PROVIDED IAN NOTE 2 OF THIS SECTION.

**DISINFECTION AND BACTERIOLOGICAL QUALITY**

1. PER 901.A - ALL DISINFECTANT EQUIPMENT SHALL COMPLY WITH NSF STANDARD 50.
2. PER 901.A.2 - THIS POOL SHALL BE CONTINUOUSLY DISINFECTED BY A COMMERCIAL GRADE CHLORINE TABLET THAT IMPARTS AN EASILY MEASURED RESIDUAL. THE CHLORINATOR PROVIDING DISINFECTANT TO THE POOL WATER IS TO BE ADJUSTED PENDING FIELD TESTING MEASURES THAT ARE SIMPLE AND ACCURATE.
3. PER 901.C - THE POOL SHALL BE SUPPLIED WITH A CHEMICAL TEST KIT WHICH TESTS FOR ALL LEVELS MENTIONED IN NOTE BELOW VIA THE DPD METHOD OF DETECTING CHLORINE RESIDUAL. (TAYLOR TEST KIT K-2006 OR BETTER WILL BE PROVIDED).
4. PER 903 - THE PH SHALL BE MAINTAINED IN AN ALKALINE CONDITION BY THE HAYWARD AUTOMATED PH CONTROLLER. (SEE CUT SHEET)
5. THE TESTING RESULTS FOR RESIDUALS SHALL MEET THE FOLLOWINGS.....
  - TESTING FOR DETERMINATION OF PH, CHLORINE (TOTAL AND FREE), TOTAL ALKALINITY, AND CALCIUM HARDNESS.
  - DISINFECTANT LEVELS AND PH SHALL BE MEASURED TWICE PER DAY, AND HOURLY WHEN POOL IS IN HEAVY USE.
  - TOTAL ALKALINITY TO BE MEASURED WEEKLY.
  - CALCIUM HARDNESS TO BE MEASURED MONTHLY.

LEVEL TARGETED REQUIREMENTS ARE...

RESIDUAL CHLORINE	1.0 ppm MINIMUM
FAC	3.0 ppm MAXIMUM 10 MG/L MAXIMUM
TOTAL ALKALINITY	60 - 180 ppm (MG/L)
CALCIUM HARDNESS	1000 ppm (MG/L) MAXIMUM

**UNDERWATER SEAT BENCH**

1. UNDERWATER SEAT BENCH ON THIS POOL IS WITHIN LESS THAN 5'-0" WATER DEPTH.
2. THERE ARE NO SWIM LANES WITHIN THIS POOL.
3. THE WATER DEPTH ABOVE THE UNDERWATER SEAT BENCH IS 13 INCHES.
4. THE SEAT OF THE UNDERWATER BENCH FROM FACE OF POOL WALL TO THE VERTICAL FACE OF THE BENCH IS 18 INCHES.
5. A PERMANENT COLORED BAND OF DARK, CONTRASTING AND SLIP-RESISTANT TILE SHALL BE INSTALLED AT THE FRONT EDGE OF THE SEAT EXTENDING TWO INCHES ON THE HORIZONTAL AND VERTICAL SURFACE, AND SHALL BE SLIP RESISTANT (SEE SHEET PL-1.2, DETAIL 04).
6. THE FRONT EDGE OF THE UNDERWATER SEAT BENCH SHALL HAVE A 1 INCH ROUNDED EDGE.
7. THE UNDERWATER SEAT BENCH IS NOT DESIGNED AS ONE OF THE REQUIRED ENTRY/EXIT ACCESS POINTS.

**TANNING SHELF**

1. THE TANNING SHELF IS LOCATED IN OUTSIDE OF THE NORMAL INTERNAL POOL STRUCTURE WITH A LEVEL FLOOR. THE TANNING SHELF IS INTENDED FOR BATHERS TO SIT OR LIE DOWN IN A MINIMUM 6" TO MAXIMUM 1'-0" DEPTH OF POOL WATER FOR SUNNING OR TANNING PURPOSES. THE DESIGN DEPTH IS 6 INCHES.
2. THE TANNING SHELF SHALL NOT EXTEND BEYOND THE VERTICAL PLANE OF ANY PORTION OF THE POOL WALL. THE DESIGN SHOWS THAT THE TANNING SHELF IS BEFORE THE POOL STAIRS.
3. THE TANNING SHELVES SHALL BE RECESSED A MINIMUM OF 36" BACK FROM THE NORMAL LOCATION OF THE INTERNAL WALL AT THE SHALLOW END OF A POOL AND SHALL BE A MINIMUM OF FIVE FEET WIDE. IN NO CASE SHALL ANY SUNNING OR TANNING SHELF BE LESS THAN 15 SQUARE FEET IN TOTAL HORIZONTAL SURFACE AREA. THE TANNING SHELF DESIGN IS RECESSED 5'-5" FROM THE NORMAL LOCATION OF THE INTERNAL POOL WALL. THE TANNING SHELF DIMENSIONS ARE 7'-7" WIDE X 25'-0" LONG.
4. A DECK SURFACE CONSTRUCTED IN COMPLIANCE WITH PART XXIV OF THE LOUISIANA STATE SANITARY CODE (LAC 51:XXIV) SHALL COMPLETELY SURROUND THE SUNNING OR TANNING SHELF EXCEPT FOR THE SUNNING OR TANNING SHELF'S EDGE WHERE IT MEETS THE MINIMUM 3 FEET DEEP SHALLOW END OF THE POOL. THE DISTANCE FROM THE SURFACE OF THE DECK TO ANY POINT ON THE SURFACE OF THE SUNNING OR TANNING SHELF SHALL BE A MAXIMUM OF TWELVE INCHES (12"). THE DECK COPING ON THREE SIDES OF THE TANNING SHELF HAS BEEN DESIGNED TO BE NO MORE THAN TWELVE INCHES.
5. A PERMANENT COLORED BAND OF DARK, CONTRASTING AND SLIP-RESISTANT TILE SHALL BE INSTALLED AT THE INTERSECTION OR EDGE OF THE POOL WALL (WHERE IT MEETS THE MINIMUM 3 FEET DEEP SHALLOW END OF THE POOL) AND THE SUNNING OR TANNING SHELF. SUCH CONTRASTING TILE MUST EXTEND AT LEAST 2' ON BOTH THE HORIZONTAL AND VERTICAL SURFACES FROM THE INTERSECTION OR EDGE OF WHERE THEY MEET. THE TANNING SHELF HAS BEEN DESIGNED WITH A 2" WIDE CONTRASTING TILE BETWEEN THE TANNING SHELF AND THE FIRST STEP GOING INTO THE POOL.
6. A MINIMUM OF ONE SUBMERGED INLET SHALL BE PROVIDED IN ALL SUNNING OR TANNING SHELVES. THIS ONE SUBMERGED INLET SHALL BE ADEQUATE FOR SUNNING AND TANNING SHELVES CONSISTING OF 100 SQUARE FEET OR LESS. FOR SUNNING OR TANNING SHELVES GREATER THAN 100 SQUARE FEET, ADDITIONAL SUBMERGED INLETS SHALL BE PROVIDED AT A RATE OF ONE PER 100 SQUARE FEET, OR ANY FRACTION THEREOF, OF THE SUNNING OR TANNING SHELF SURFACE AREA. THE INLET(S) SHALL BE CENTRALLY LOCATED AND INSTALLED INTO THE POOL'S CIRCULATION SYSTEM. THE TANNING SHELF HAS BEEN DESIGNED WITH TWO (2) RETURN INLETS.
7. A MINIMUM OF ONE SKIMMER PER 200 SQUARE FEET OR ANY FRACTION THEREOF, OF THE SUNNING OR TANNING SHELF SURFACE AREA, SHALL BE PROPERLY LOCATED, INSTALLED AND CONNECTED WITH THE POOL'S CIRCULATION SYSTEM. THE TANNING SHELF HAS BEEN DESIGNED WITH ONE (1) SKIMMER IN THE TANNING SHELF.
8. THE SURFACE OF ALL SUNNING OR TANNING SHELVES SHALL BE FULLY SELF-DRAINING WITH A MAXIMUM SLOPE OF ONE FOOT VERTICAL PER TWELVE FEET HORIZONTAL, AND SHALL COMPLY WITH ALL OTHER POOL SURFACE REQUIREMENTS OF LAC TITLE 51 PART XXIV (SWIMMING POOLS). THE TANNING SHELF HAS BEEN DESIGNED WITH 1:50 SLOPE.

9. ALL SUNNING OR TANNING SHELVES SHALL BE INSTALLED AT THE MOST SHALLOW PORTION OF THE POOL BUT SHALL, IN NO CASE CONNECT WITH OR BE ADJACENT TO WATER DEPTHS GREATER THAN 4 FEET. THE TANNING SHELF HAS BEEN DESIGNED BEYOND THE STEPS LEADING TO THE POOL.
10. DEPTH MARKERS SHALL BE PROVIDED AS REQUIRED IN LAC 51:XXIV.101. DEPTH MARKERS HAVE BEEN PROVIDED.
11. IF THE SUNNING OR TANNING SHELF IS CONSTRUCTED AS PART OF INGRESS, SUCH AS STEPS INTO THE POOL, THEN A HANDRAIL MUST BE INSTALLED IN COMPLIANCE WITH SUCH REQUIREMENTS AS REQUIRED IN THE LAC TITLE 51 PART XXIV (SWIMMING POOLS). THE TANNING SHELF HAS BEEN DESIGNED WITH HANDRAILS AT EACH END OF THE STEP(S).
12. INTERACTIVE PLAY DEVICES SHALL NOT BE INSTALLED IN ANY SUNNING OR TANNING AREA. NO INTERACTIVE PLAY DEVICES SHALL BE INSTALLED IN THE TANNING AREA.

**GENERAL CONSTRUCTION NOTES**

1. REFERENCE POOL & DECK PLAN FOR DRAINAGE.
2. ALL POOL DECK DEPTH MARKERS (BOTH DECK MOUNTED AND WALL MOUNTED) ARE IDENTIFIED IN THE POOL PLAN VIEWS AND SECTIONS, AND SPECIFICALLY ON SHEET PL-1.2, DETAIL 03.
3. ALL 2"X2" DARK CONTRASTING EDGE TILE WITHIN THE POOL IS IDENTIFIED THROUGHOUT ALL POOL PLAN VIEWS AND SECTION VIEWS. COLORS ARE IDENTIFIED IN THE HARDSCAPE PLANS.
4. DIMENSIONAL LAYOUT PLAN FOR POOL ON SHEET PL-1.0 IDENTIFIES THE LOCATIONS OF ALL SKIMMERS, INLETS, DRAINS, DEPTH CHANGES, DEPTH MARKERS, HAND RAIL, LADDER, AND ADA LIFT MOUNTING LOCATION.
5. ALL SKIMMERS ARE TO HAVE EQUALIZER LINES WITH SUCTION COVERS.



**POOL DESIGN DATA**

WATER VOLUME =	66,455 GALLONS
TURNOVER RATE =	7.0 HOURS
TOTAL FLOW RATE =	158 GPM
WATER SURFACE AREA =	2,237 SQ. FT.
POOL PERIMETER =	230 LN. FT.
FLOW RATE PER SYSTEM =	79 GPM
TOTAL HEAD LOSS PER SYSTEMS=	40.6 FT.
MAXIMUM BATHER LOAD =	111 PERSONS
<b>POOL DECKING =</b>	<b>5,783.9 SQ. FT.</b>

**SHEET INDEX**

SHEET #	SHEET TITLE	REV	DATE
G-1.1	SPECIFICATIONS, NOTES AND POOL DESIGN DATA	Rev 1 -	3/16/2018
PL-1.1	POOL & DECK PLAN	Rev 2 -	5/7/2018
PL-1.2	POOL CROSS SECTIONS	Rev 1 -	5/29/2018
PL-2.1	DETAILS	Rev 1 -	3/16/2018
PL-3.1	POOL PIPING PLAN	Rev 1 -	3/16/2018
PL-3.2	ONE-LINE DIAGRAM	Rev 1 -	3/16/2018

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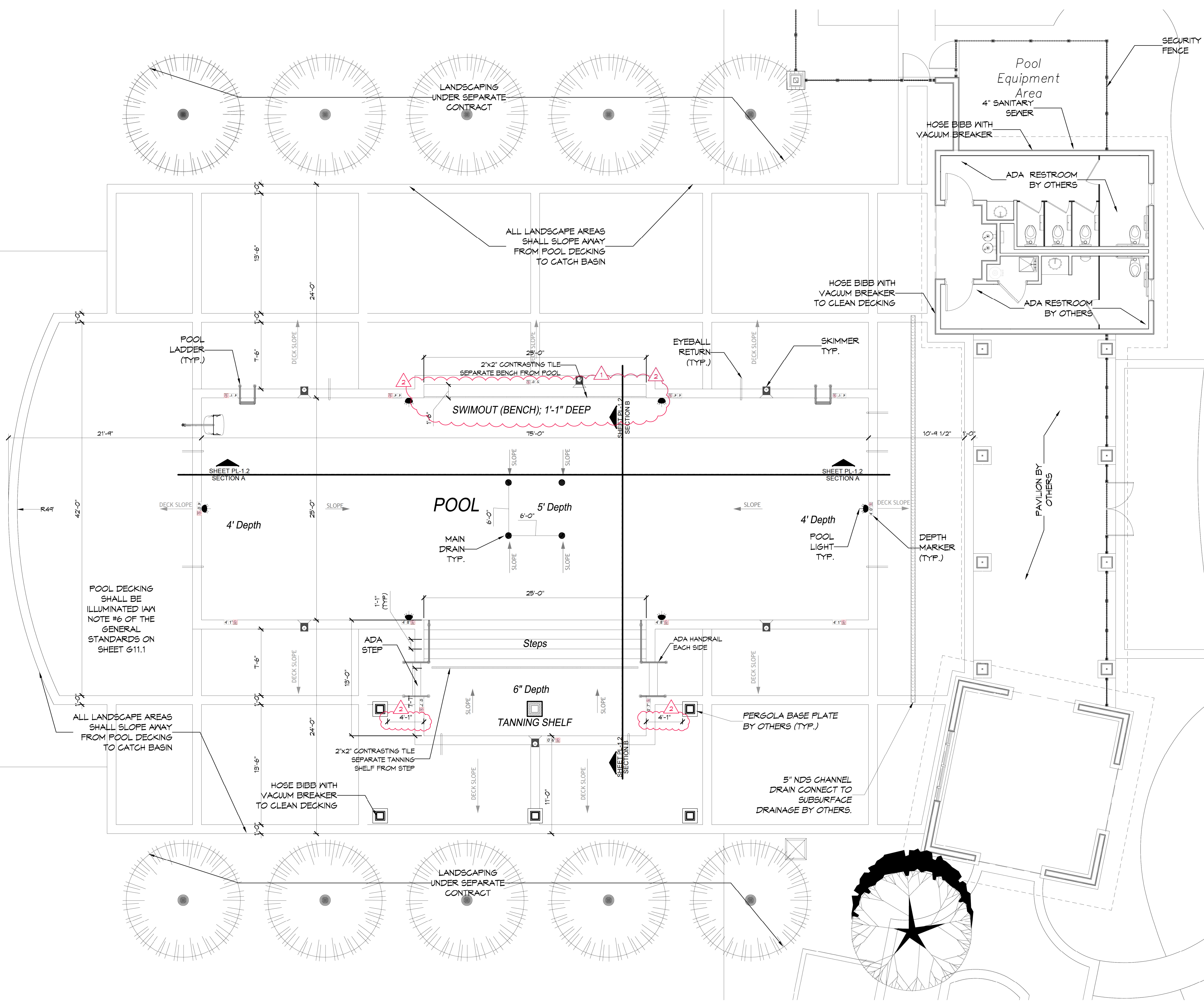
REVISIONS	DATE	DESCRIPTION
1	3/16/2018	Revised Code Requirements



**NEW POOL**  
**TERRABELLA POOL**  
[PROJECT ADDRESS]  
JOB No: 2534  
DATE: 1/24/2018  
DRAWN BY: [Signature]  
CHECKED BY: CKD

SHEET TITLE:  
SPECIFICATIONS, NOTES AND POOL DESIGN DATA  
DRAWING NUMBER:  
**G-1.1**  
SHEET No: 1 of 6

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SYMBOL IDENTIFICATION LEGEND	
	ADA POOL LIFT PER CODE
	SKIMMER (NSF CERTIFIED; - VGB/APSP 16.2011 COMPLIANT)
	MAIN DRAIN (NSF CERTIFIED; - VGB/APSP 16.2011 COMPLIANT)
	WALL INLET FITTING FOR SENSOR
	ADJUSTABLE EYEBALL WALL INLET
	MAIN DRAIN (VGB AND NSF COMPLIANT)
	1.90" O.D. S.S. HANDRAIL PER CODE
	1.90" O.D. S.S. LADDER PER CODE
	DEPTH MARKERS PER CODE
	UNDER WATER POOL LIGHTING

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

DAMMON

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#	DESCRIPTION	DATE
1	Revised Subsurface Drainage & Water Feature	8/16/2018
2	Removed Older Entrance and Moved Columns	5/27/2019



TERRABELLA POOL

[PROJECT ADDRESS]  
 JOB No: 2594 DATE: 1/24/2018  
 DRAWN BY: [Name] CHECKED BY: [Name]

SHEET TITLE:  
**POOL & DECK PLAN**

DRAWING NUMBER:  
PL-1.1

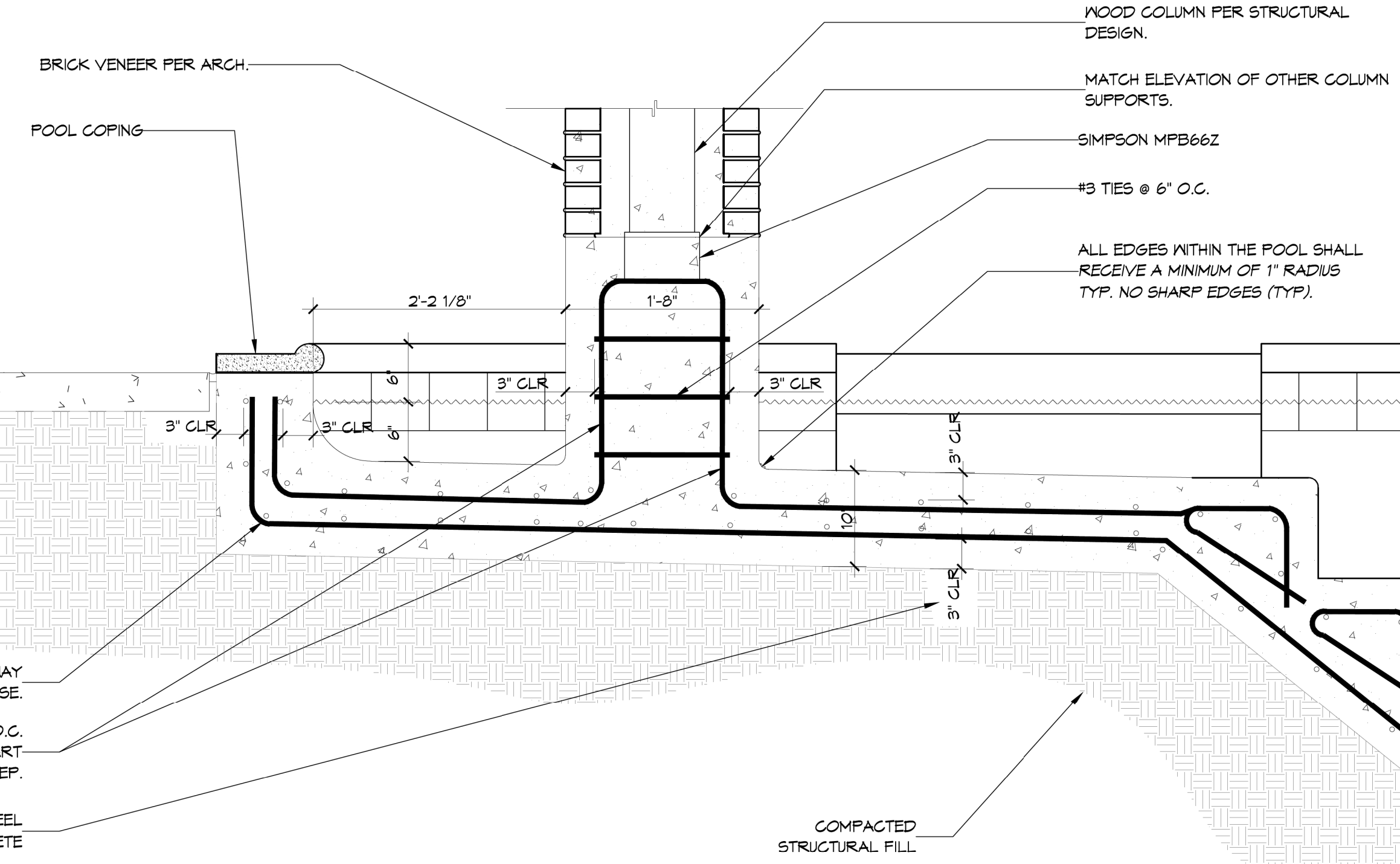
SHEET No: 2 of 6

PLAN NOTES

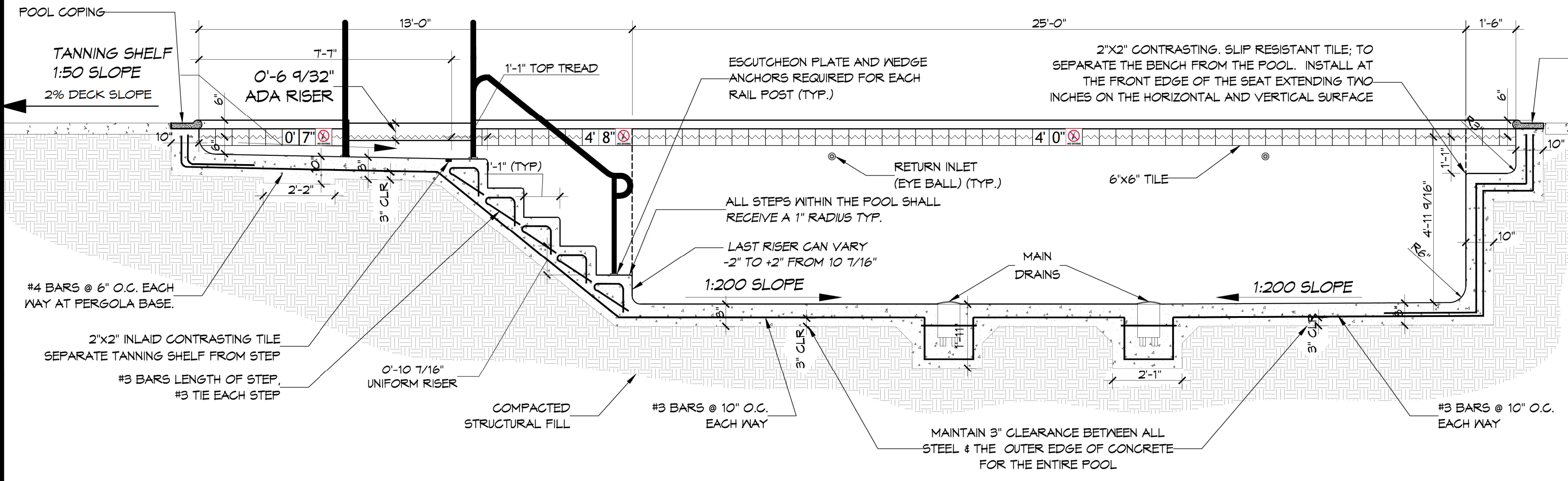
1. ALL SITE PREPARATION AND FOUNDATION CONSTRUCTION SHALL FOLLOW THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT DATED JANUARY 24, 2018 BY STRATUM ENGINEERING. IT IS RECOMMENDED THAT STRATUM ENGINEERING BE RETAINED FOR OBSERVATION AND TESTING OF CONSTRUCTION ACTIVITIES INVOLVED IN THE FOUNDATIONS AND RELATED ACTIVITIES OF THIS PROJECT.
2. THE GEOTECHNICAL ENGINEERING REPORT FROM STRATUM ENGINEERING STATES THAT GROUND WATER WAS ENCOUNTERED AT 12 FT BELOW GRADE THEREFORE Dewatering IS NOT EXPECTED.
3. THIS POOL HAS BEEN DESIGNED TO SUPPORT GRAVITY LOADS ONLY AND THEREFORE SHOULD NOT BE EMPTIED WHEN THE GROUND WATER LEVEL IS LESS THAN 10 FT BELOW THE SURFACE. IT IS RECOMMENDED THAT A PLACARD BE PLACED IN THE POOL EQUIPMENT AREA STATING THIS. IT IS RECOMMENDED THAT A 6" WELL CASING BE INSTALLED TO A DEPTH OF 10FT SO THAT TECHNICIANS CAN OBSERVE THE WATER DEPTH PRIOR TO EMPTYING THE POOL.
4. ANY FILL SHALL BE PLACED IN MAXIMUM LIFTS OF EIGHT (8) INCHES OF LOOSE MATERIALS AND SHALL BE COMPACTED WITHIN ONE (1) PERCENTAGE POINT BELOW AND THREE (3) PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT. IF WATER MUST BE ADDED, IT SHOULD BE UNIFORMLY APPLIED AND THOROUGHLY MIXED INTO THE SOIL BY DISKING OR SCARIFYING. THE FILL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 STANDARD PROCEDURES. ADEQUATE DRAINAGE SHOULD BE PROVIDED PRIOR TO AND DURING SITE WORK. THE SITE SHOULD BE GRADED TO PROMOTE RAPID RUNOFF.
5. THE POOL DECKING IS EXPECTED TO HAVE APPROXIMATELY 1 TO 1-1/2 FT OF FILL ADDED TO THE NATURAL GRADE. THE SITE SHALL BE STRIPPED OF ALL TOPSOIL WITH ORGANICS AND OTHER DELETERIOUS MATERIALS AS WELL AS UNDERCUTTING THE SURFICIAL SILTY SOIL AS NECESSARY TO PROVIDE A STABLE SUBGRADE. THE DEPTH OF STRIPPING IS EXPECTED TO BE APPROXIMATELY 6 TO 8 INCHES. HOWEVER, THE ACTUAL STRIPPING AND UNDERCUTTING DEPTHS SHOULD BE DETERMINED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER AT THE TIME OF CONSTRUCTION.
6. THE POOL SHALL BE EXCAVATED TO REMOVE ANY SOFT CLAY(S) AND REPLACED WITH ENGINEERED FILL ACCORDING TO THE RECOMMENDATIONS FROM STRATUM ENGINEERING.
7. THE POOL SHALL BE CONSTRUCTED UTILIZING A STEEL GRID MATRIX OF NUMBER 3 (#3) BAR SIZE STEEL DEFORMED REBAR, GRADE 60 CONFORMING TO ASTM A615, (REBAR WITH PROTRUSIONS TO PROVIDE A MECHANICAL BOND) SPACED 10" ON CENTERS, UNLESS SHOWN OTHERWISE, IN BOTH DIRECTIONS TO INSURE THE STRUCTURAL INTEGRITY OF THE POOL SHELL. ANY REINFORCING STEEL THAT IS PLACED WITH LESS THAN 3" CLEARANCE TO EITHER SOIL OR POOL WATER SHALL HAVE A FUSION-BONDED EPOXY COATING.
8. REINFORCING STEEL SHALL BE OVERLAPPED, ESPECIALLY AROUND CORNERS, SIDE TO BOTTOM, SIDE TO DECK, AND LINEAR EXTENSIONS SHALL BE A MINIMUM OF 18" OVERLAP AND SECURED IN SUCH A MANNER TO PREVENT MOVEMENT.
9. CARE SHALL BE TAKEN SO THAT REINFORCEMENT BARS SHALL BE FREE FROM MUD, OIL OR OTHER NONMETALLIC COATINGS THAT DECREASE THE CONCRETE/REBAR BOND.
10. POOL FACETS SUCH AS INLETS, OUTLETS, DRAINS, LIGHTING FIXTURES AND ADDITIONAL APPURTENANCES SHALL BE SUPPORTED BY DIAGONAL GRIDS (#4 REBAR) SUPERIMPOSED ON THE 12" GRID MATRIX. DIAGONAL GRIDS SHALL BE SECURED IN SUCH A MANNER AS TO PREVENT MOVEMENT.
11. THE CONCRETE SHELL OF THE POOL SHALL BE A SPRAY SHOTCRETE TYPE, EITHER WET-MIX OR DRY-MIX. (DRY-MIX TYPE IS COMMONLY REFERRED TO BY THE TRADEMARK NAME OF GUNITE.) THE THICKNESS OF THE BOTTOM SHALL BE A MINIMUM OF 8 INCHES, WALLS SHALL BE A MINIMUM OF 10 INCHES AND THE SURROUNDING DECK, (A MINIMUM OF 4' FROM THE POOL EDGE) SHALL BE 4" THICK REINFORCED CONCRETE.

COMPRESSIVE STRENGTH FOR POOL SHELL, SHALL MEET ASTM C109 / ASTM C39 :

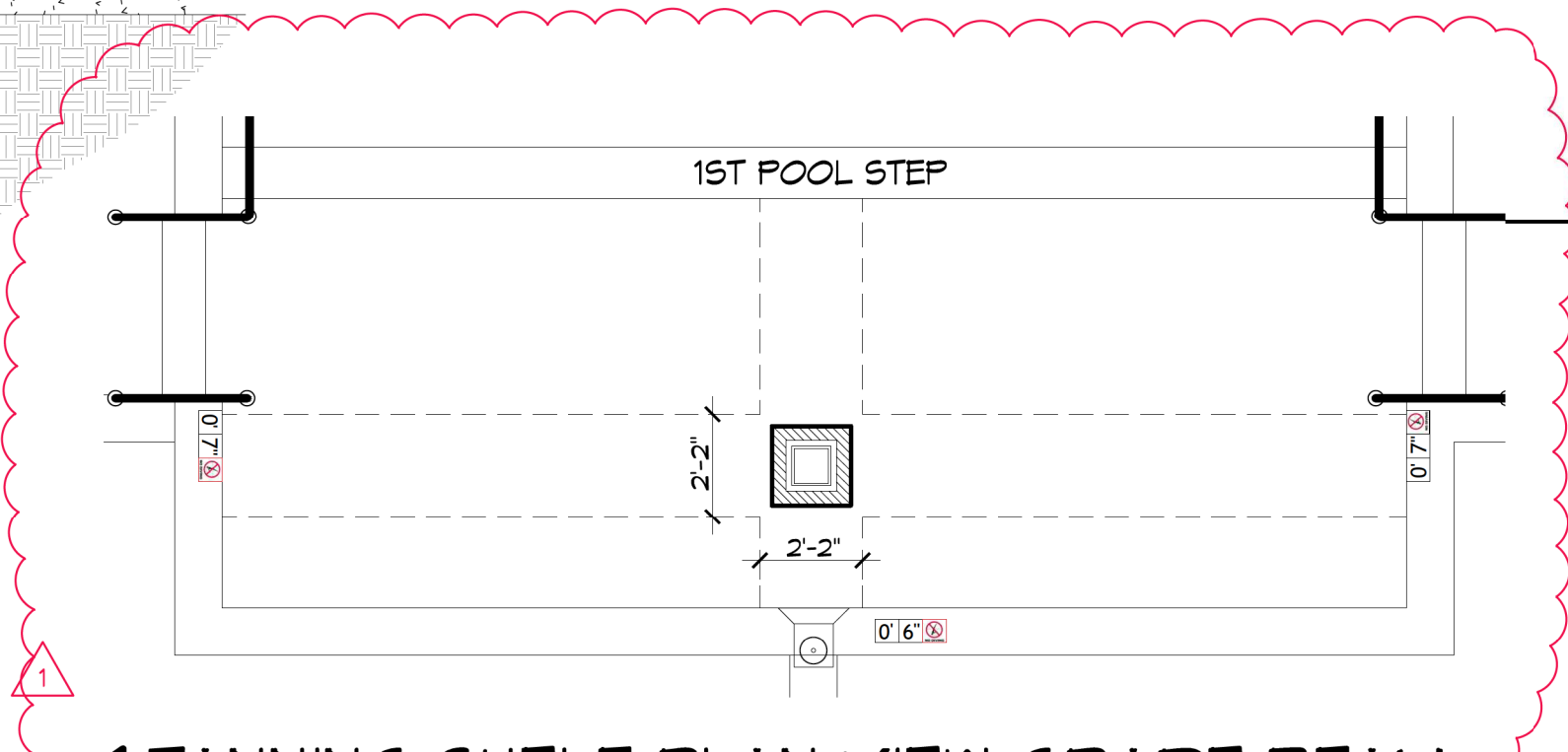
	SHOTCRETE FINE	SHOTCRETE MS FINE	SHOTCRETE MS COARSE	SHOTCRETE MS FINE W/POLYPROPYLENE FIBER	SHOTCRETE MS COARSE W/STEEL FIBERS
1 DAY	1500 PSI (10.3 MPa)	1750 psi (12.1 MPa)	1750 psi (12.1 MPa)	1750 psi (12.1 MPa)	2500 psi (17.2 MPa)
7 DAYS	3050 PSI (21.0 MPa)	3500 PSI (24.1 MPa)	3500 PSI (24.1 MPa)	3500 PSI (24.1 MPa)	4000 PSI (27.6 MPa)
28 DAYS	5075 PSI (35.0 MPa)	5500 PSI (37.9 MPa)	5500 PSI (37.9 MPa)	5500 PSI (37.9 MPa)	7000 PSI (48.3 MPa)



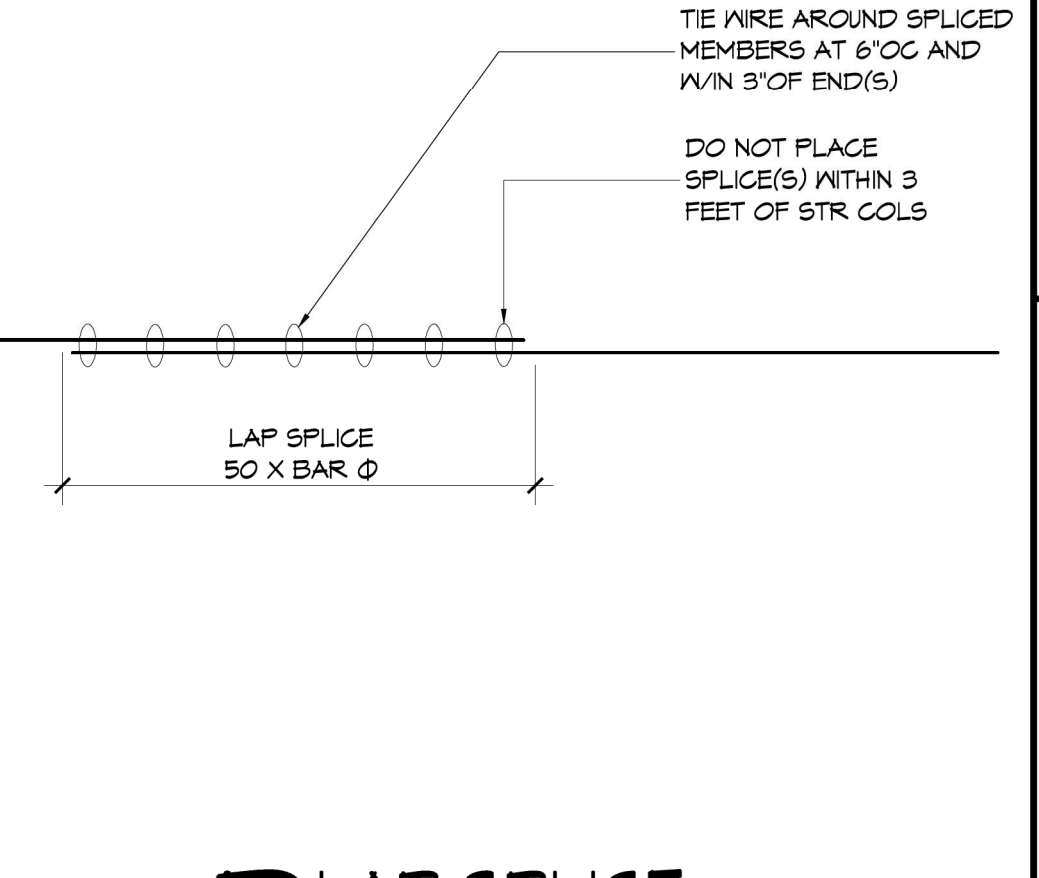
**C TANNING SHELF PERGOLA BASE SECTION**  
SCALE: 1" = 1'-0"



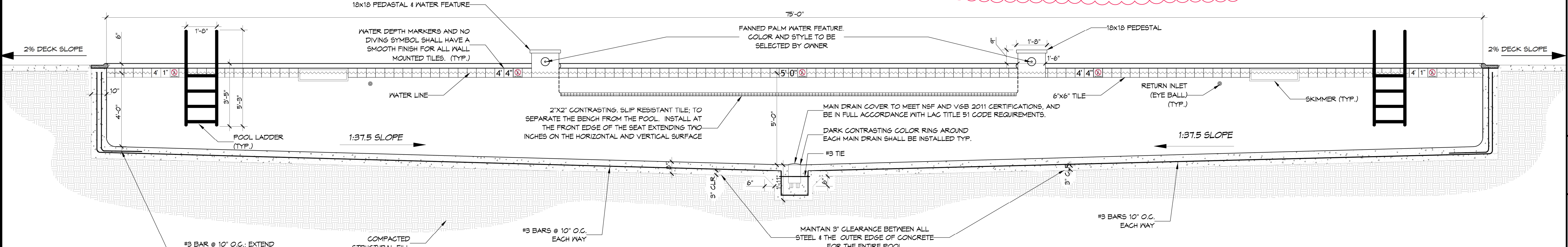
**B POOL CROSS SECTION**  
SCALE: 3/8" = 1'-0"



**1 TANNING SHELF PLAN VIEW GRADE BEAM PERGOLA COLUMN**  
SCALE: 1/4" = 1'-0"



**D LAP SPLICE**  
SCALE: 1" = 1'-0"



**A POOL CROSS SECTION**  
SCALE: 3/8" = 1'-0"

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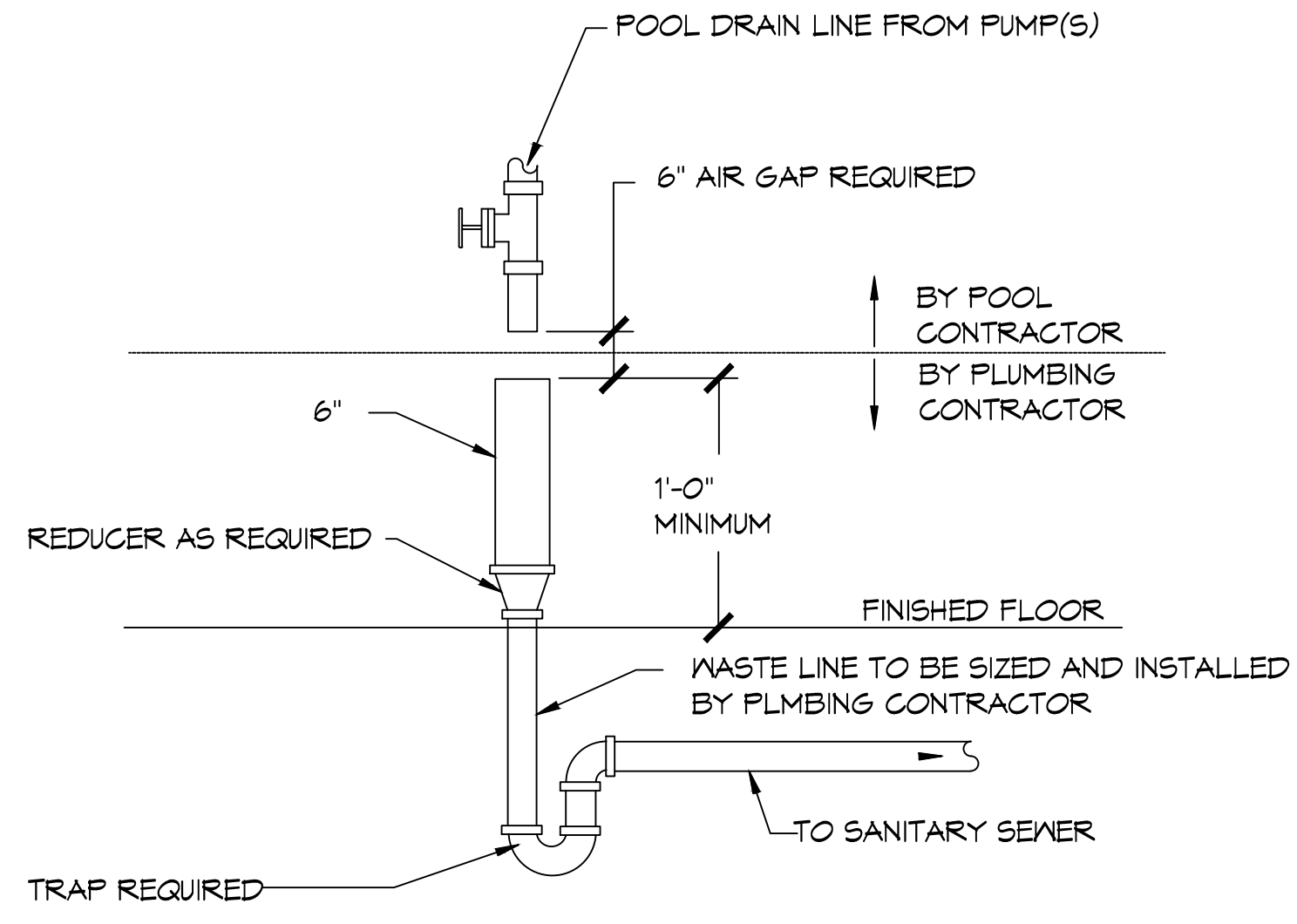
REVISIONS

#	DESCRIPTION	DATE
1	Add Plan View of Pergola Column Grade Beam	5/29/2018

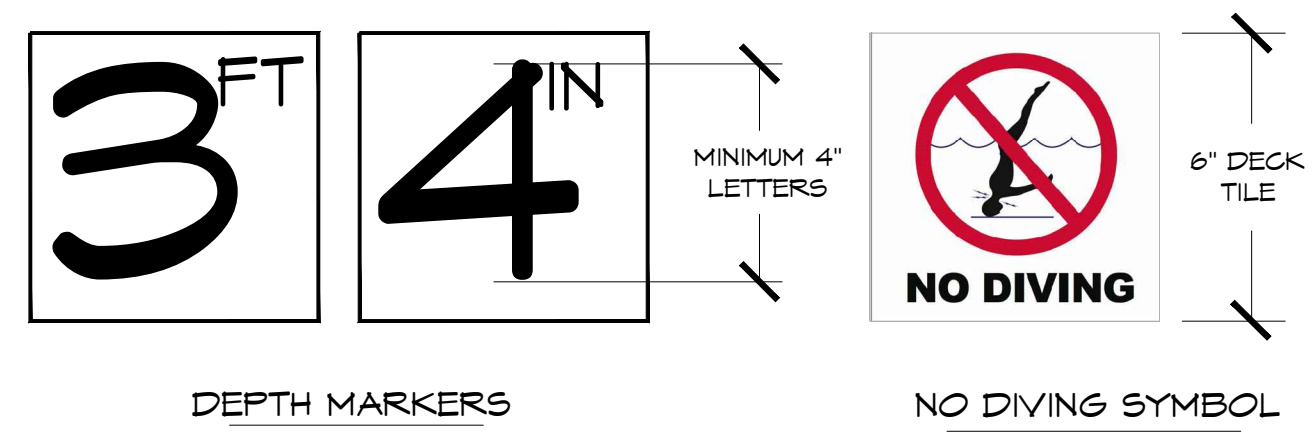


NEW POOL  
**TERRABELLA POOL**  
SHEET TITLE:  
POOL CROSS SECTIONS  
DRAWING NUMBER:  
**PL-1.2**  
SHEET No: 3 of 6

DATE: 1/24/2018  
JOB No: 2594  
DRAWN BY: [?]  
CHECKED BY: [?]  
SCALE: [?]



**B DETAIL**  
SCALE: N.T.S.  
POOL EQUIPMENT DRAIN

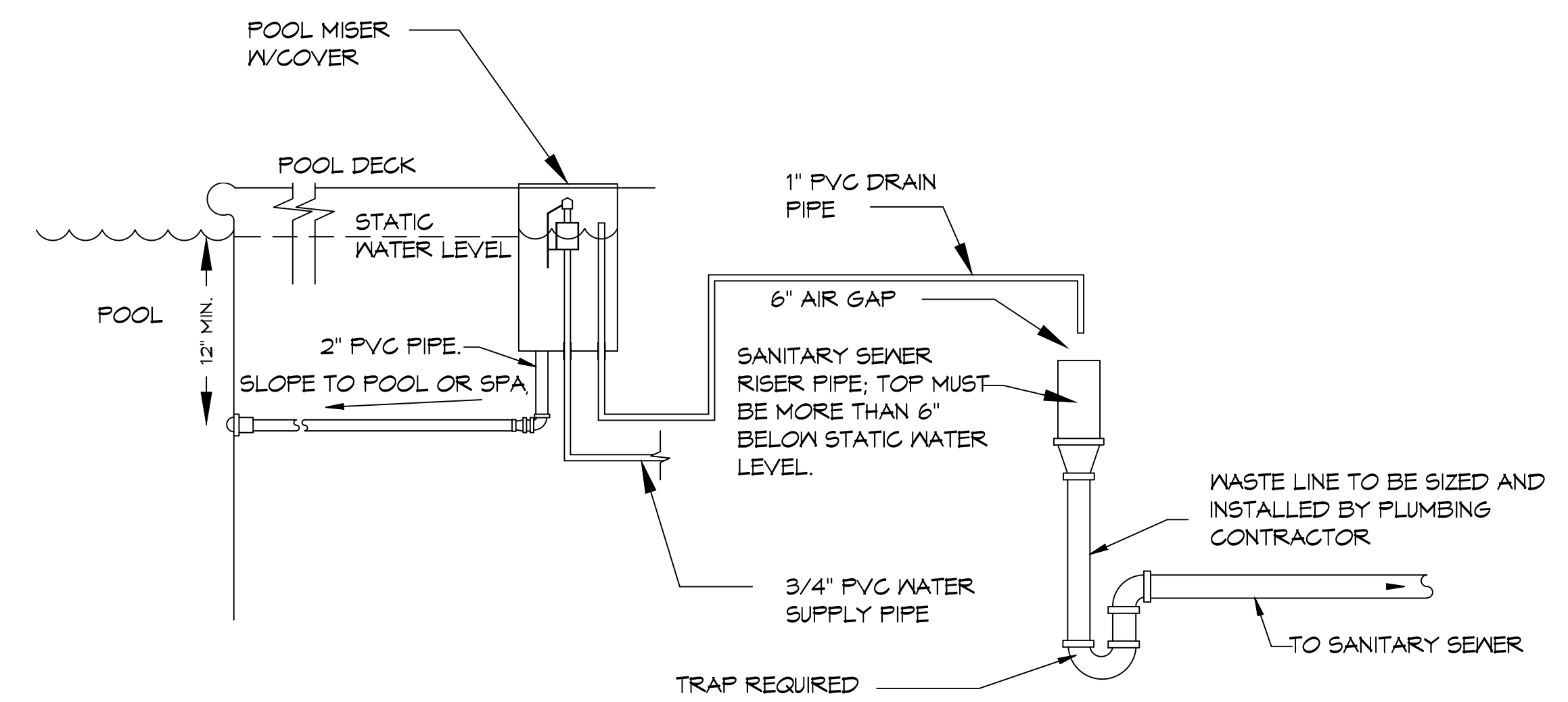


**DEPTH MARKERS**  
**NO DIVING SYMBOL**

MARKER REQUIREMENTS:  
 1. DEPTH MARKERS BOTH SHOWING FEET AND INCHES  
 2. NO DIVING SYMBOL MARKER WITH EACH DEPTH MARKER.

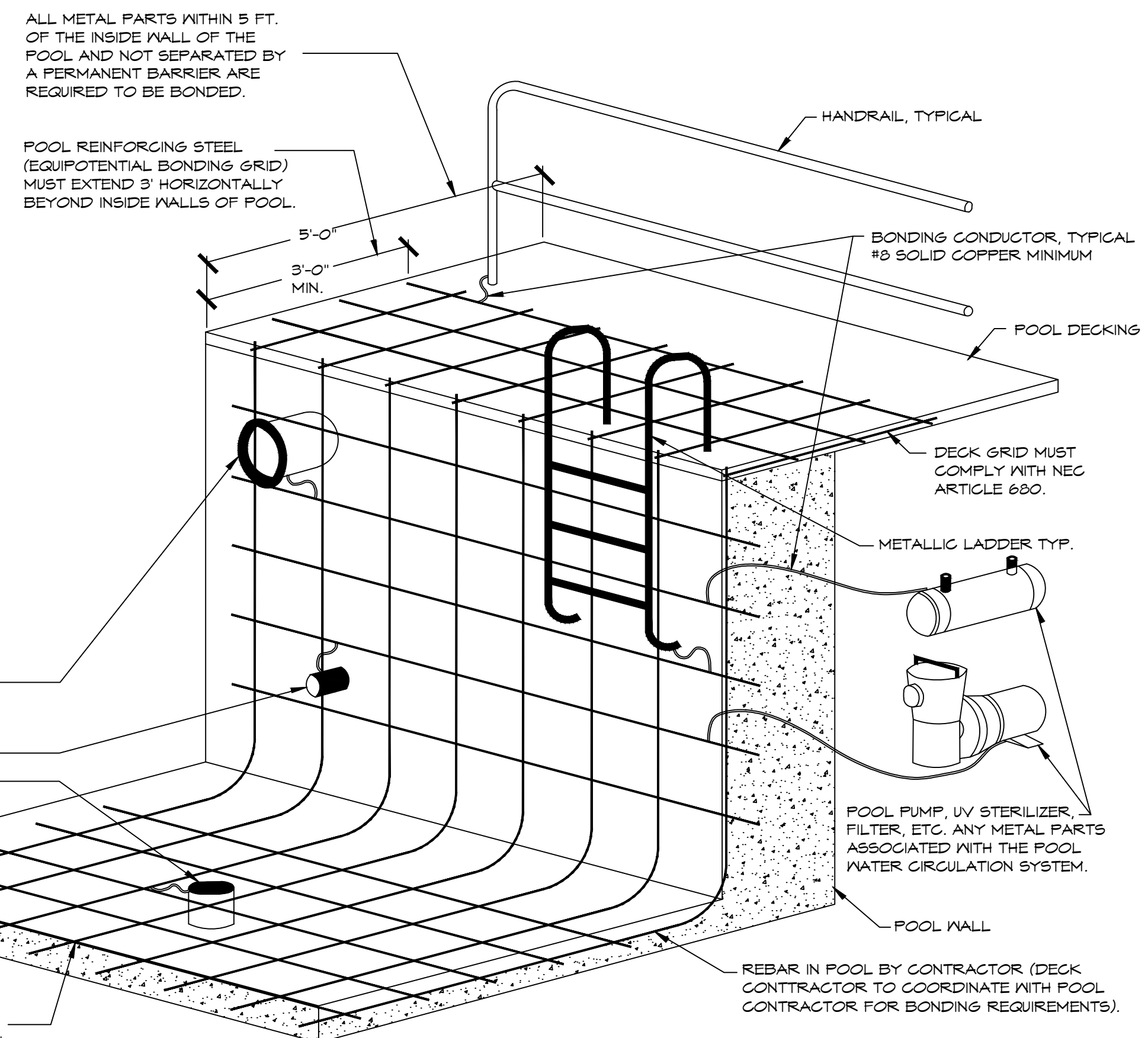
NOTES:  
 1. DEPTH MARKERS SHALL BE PLACED ON THE DECK WITH SPACING NOT TO EXCEED 25'-0", NO MORE THAN 2 FOOT OF CHANGE IN SLOPE, AND TO ALSO PLACE A CORRESPONDING DEPTH MARKER IN DUPLICATE ON THE POOL WALL.  
 2. DECK TILES TO BE WITHIN 18" OF THE POOL WATER SURFACE  
 3. DECK TILES TO BE POSITIONED TO BE READ WHILE STANDING ON THE DECK FACING THE WATER.  
 4. DEPTH MARKERS TO BE IN ENGLISH.  
 5. NUMERICAL COLOR OF LETTERING TO BE BLACK, ON WHITE BACKGROUND.  
 6. "NO DIVING" INTERNATIONAL SYMBOL MARKER TO BE PLACED AT EVERY LOCATION WHERE A DEPTH MARKER IS LOCATED.  
 7. ALL DECK DEPTH MARKERS & NO DIVING SYMBOLS ARE TO HAVE A SLIP RESISTANT FINISH TYPICAL.  
 8. POOL WALL DEPTH MARKERS & NO DIVING SYMBOLS ARE TO HAVE A SMOOTH FINISH.

**C DETAIL**  
SCALE: N.T.S.  
POOL DRAIN

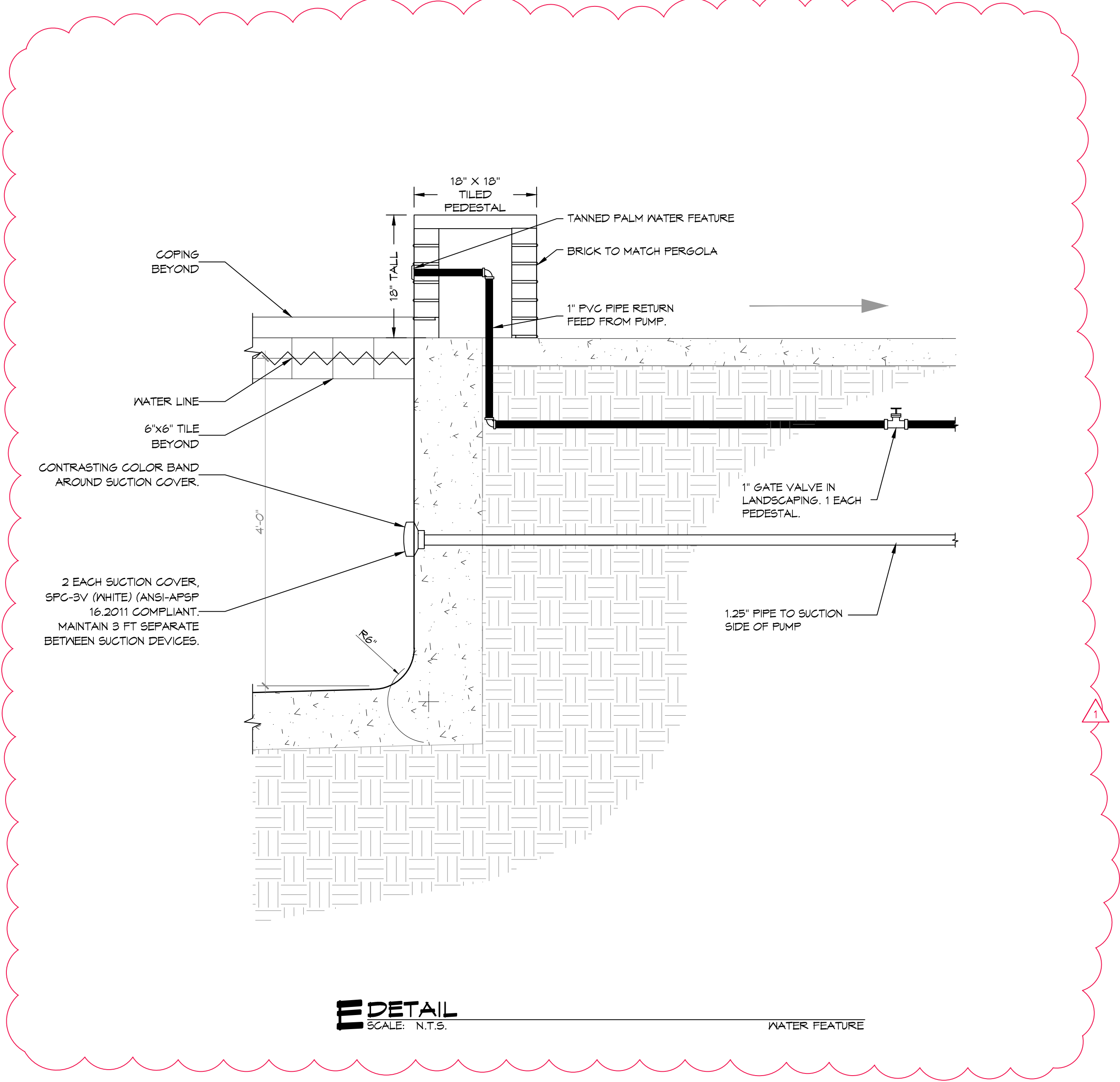


**D DETAIL**  
SCALE: N.T.S.  
POOL WATER FEED & OVERFLOW

- NOTES:
1. ANY AND ALL METAL PARTS ASSOCIATED WITH THE POOL WATER CIRCULATION SYSTEM (I.E. PUMPS) SHALL BE BONDED PER NEC ARTICLE 680.
  2. ALL METAL PARTS WITHIN 5 FT. OF THE INSIDE WALL OF THE POOL AND NOT SEPARATED BY A PERMANENT BARRIER ARE REQUIRED TO BE BONDED PER NEC ARTICLE 680.
  3. ALL EQUIPOTENTIAL BONDING TERMINATIONS MUST BE MADE BY EXOTHERMIC WELDING. LISTED PRESSURE CONNECTORS OF THE SET SCREW OR COMPRESSION TYPE, LISTED CLAMPS, OR OTHER LISTED FITTINGS. (NEC ARTICLE 680)



**A DETAIL**  
SCALE: N.T.S.  
SECTION



**E DETAIL**  
SCALE: N.T.S.  
WATER FEATURE

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REVISIONS	DATE
1 Revised Water Feature Detail	3/16/2018

SEAL:

NEW POOL  
**TERRABELLA POOL**

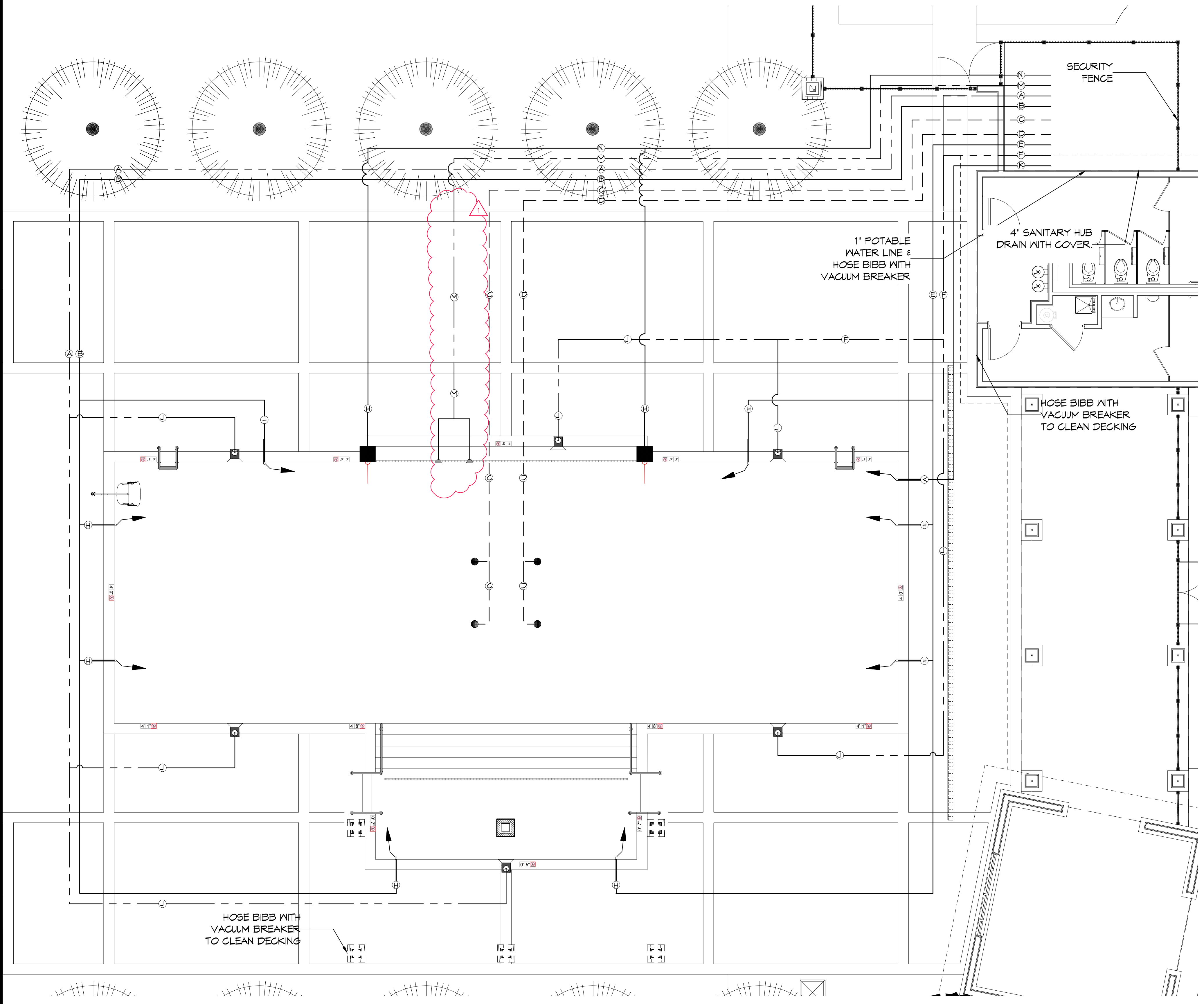
PROJECT ADDRESS: 2934 DATE: 1/24/2018  
 DRAWN BY: PEP CHECKED BY: BM

SHEET TITLE:  
Details

DRAWING NUMBER:  
**PL-2.1**

SHEET No: 4 of 6

FILE NAME: C:\Users\jason\Documents\General\Terrabella\PL-3.1 Pool Piping Plan.dwg  
 PLOT DATE: 3/16/2018 11:25:30 AM  
 PLOT SCALE: 3/16"=1'-0"



PIPE SCHEDULE					
PIPE ID	DESCRIPTION	SIZE	TYPE	FLOW RATE	VELOCITY
A & F	MAIN SKIMMER SUCTION	2.5 INCH	SCH 40 PVC	60 GPM	5.2 FPS
B & E	MAIN RETURN LINE	2.0 INCH	SCH 40 PVC	79 GPM	8.1 FPS
C & D	MAIN DRAIN	2.0 INCH	SCH 40 PVC	19 GPM	1.9 FPS
H	INDIVIDUAL RETURN LINE	1.5 INCH	SCH 40 PVC	20 GPM	3.6 FPS
J	INDIVIDUAL SKIMMER	2.0 INCH	SCH 40 PVC	20 GPM	2.0 FPS
K	FILL LINE	2.0 INCH	SCH 40 PVC	N/A	N/A
G	NOT USED				
M	WATER FEATURE SUCTION	1.25 IN	SCH 40 PVC	25 GPM	5.5 FPS
N	WATER FEATURE RETURN	1.25 IN	SCH 40 PVC	25 GPM	5.5 FPS

NOTE: WATER VELOCITY FOR DISCHARGING PIPE SHALL NOT EXCEED 10FPS, AND THE VELOCITY FOR THE SUCTION PIPING SHALL NOT EXCEED 6 FPS.

SYMBOL IDENTIFICATION LEGEND	
	ADA POOL LIFT PER CODE
	SKIMMER (NSF CERTIFIED - VGB 2011 COMPLIANT)
	MAIN DRAIN (NSF CERTIFIED - VGB 2011 COMPLIANT)
	WALL INLET FITTING FOR SENSOR
	ADJUSTABLE EYEBALL WALL INLET
	MAIN DRAIN (VGB AND NSF COMPLIANT)
	1.90" O.D. S.S. HANDRAIL PER CODE
	1.90" O.D. S.S. LADDER PER CODE
	DEPTH MARKERS PER CODE
	UNDER WATER POOL LIGHTING

**1 POOL PIPING PLAN**  
 SCALE: 3/16" = 1'-0"

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#	DESCRIPTION	DATE
1	Issue/Revised: Estimate Submittal	3/16/2018



**NEW POOL**  
**TERRABELLA POOL**  
 [PROJECT ADDRESS]  
 JOB No: 25394  
 DATE: 1/24/2018  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]

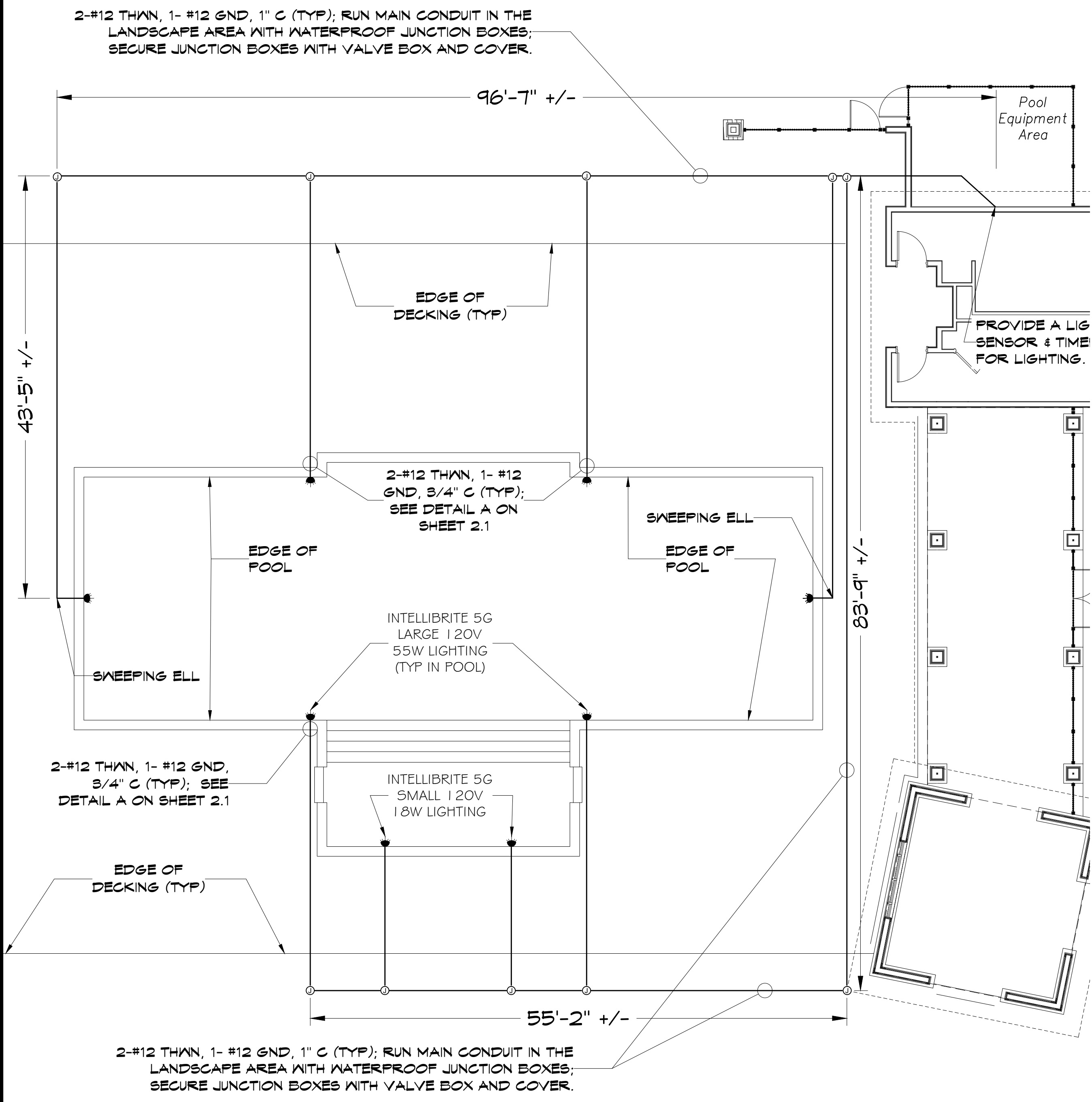
SHEET TITLE:  
 POOL PIPING PLAN  
 DRAWING NUMBER:  
**PL-3.1**  
 SHEET No: 5 of 6

## POOL ACCENT LIGHTING LEGEND

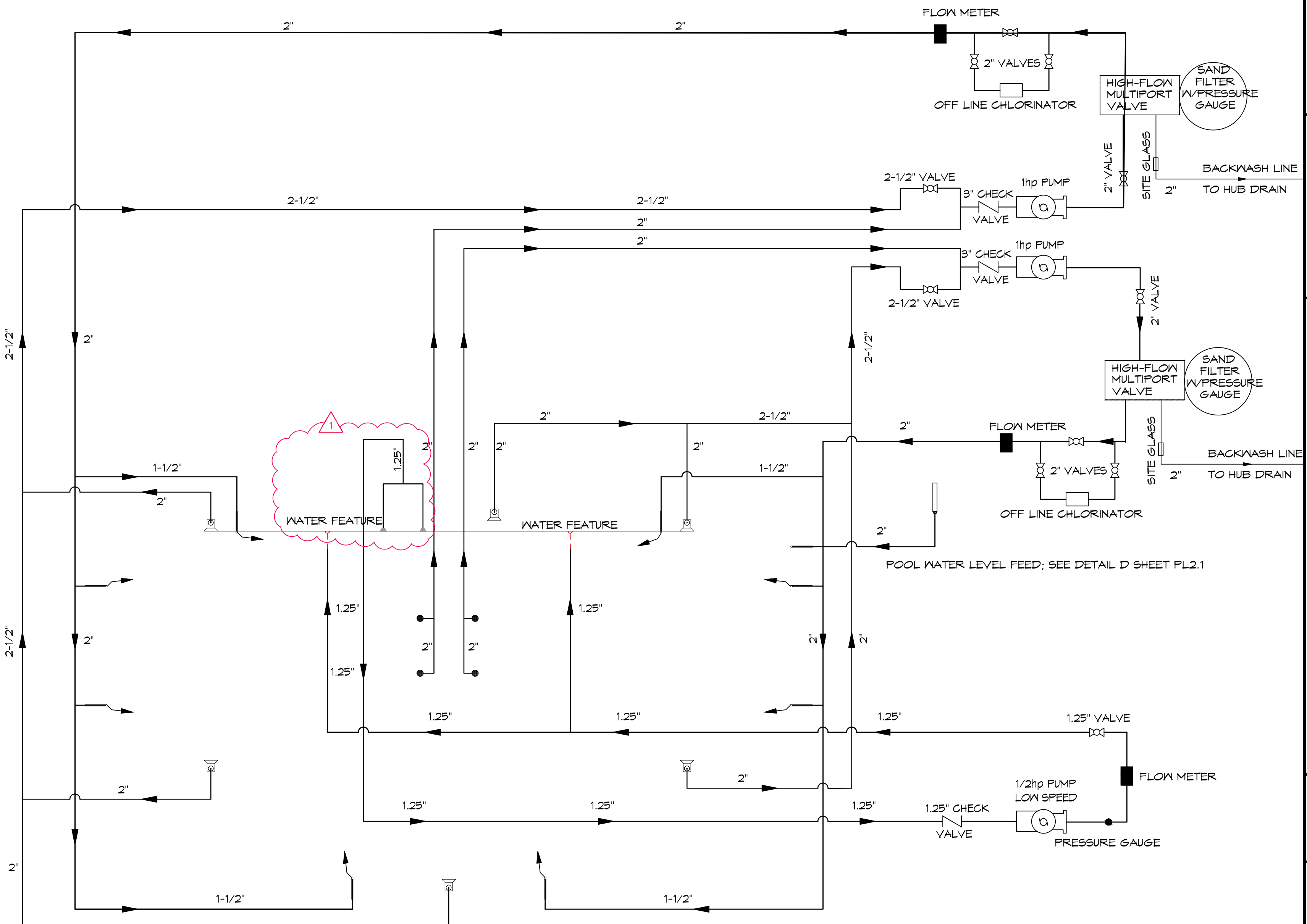
QTY	DESCRIPTION
1	LIGHTING - THIS DESIGN IS BASED ON INTELLIBRITE 5G LARGE 120V 55W LIGHTING (EQUIVALENT TO 500 W). SUITABLE SUBSTITUTES ARE ACCEPTABLE IF THE LED OR FIBER-OPTICS FIXTURE(S) ARE SPECIFICALLY MANUFACTURED FOR INSTALLATION IN A POOL, DESIGNED FOR UNDERWATER POOL USE AND HAVE A UL LISTING FOR SUCH OPERATION. EACH FIXTURE SHALL OPERATE AT LOW VOLTAGE AND SHOULD DRAW NOT MORE THAN 100 WATTS EACH. EACH FIXTURE SHALL BE CAPABLE OF LIGHTING A MINIMUM OF EIGHTEEN (18) FEET OF WATER (THROW DISTANCE). EACH FIXTURE NICHE SHALL BE CONSTRUCTED OF STAINLESS STEEL AISI 316 HOUSING AND SUPPORT HARDWARE. EACH FIXTURE SHALL BE WARRANTED FOR A PERIOD OF 2 YEARS.
6	INTELLIBRITE 5G LARGE 120V 55W LIGHTING
2	INTELLIBRITE 5G SMALL 120V 18W LIGHTING

## POOL EQUIPMENT LEGEND

QTY	DESCRIPTION
2	PENTAIR TRITON TR100 FIBERGLASS SAND FILTER W/PRESSURE GAUGE & HI FLOW BACKWASH VALVE
2	PENTAIR SUPERFLO 1 HP PUMP
1	PENTAIR SUPERFLO 1/2 HP PUMP OPERATING AT LOW SPEED
2	F-30200P BLUE-WHITE 2.0" PVC PIPE IMPACT FLOW METER
2	PENTAIR RAINBOW CHLORINATOR MODEL #300
1	POOL MISER - WATER LEVEL CONTROLLER
2	AUTOMATED pH CONTROLLER; HAYWARD HCC 1000
7	SURFACE SKIMMER; HAYWARD SP10712
4	MAIN DRAIN SUMP AND GRATE ASSEMBLY; WATERWAY 674-2510 & 640-1817 or OTHER ASSEMBLY(S) THAT MEETS VGB REQUIREMENTS ANSI-APSP 16.2011
2	SIDEWALL DRAIN FOR WATER FEATURE; AQUASTAR 6" ROUND HOCKEY PUCK SUMPLESS SUCTION OUTLET COVER or OTHER ASSEMBLY(S) THAT MEETS VGB REQUIREMENTS ANSI-APSP 16.2011
8	1" DIRECTIONAL EYEBALL RETURN; HAYWARD SP1414E & SP10225
10	TRUE-UNION BALL VALVES FOR PIPE SIZES 2"
2	TRUE-UNION BALL VALVES FOR PIPE SIZES 2-1/2"
	SCH 40 PVC PIPE FOR ALL SUCTION, RETURN, AND EQUIPMENT PIPING
1	GLOBAL SUPERIOR S-3505A LIFT
1	TAYLOR TEST KIT K-2006 (DPD METHOD OF TESTING FOR CHLORINE RESIDUALS)
	6X6 DEPTH MARKERS, 4" BLACK LETTERING ON WHITE BACKGROUND (SLIP RESISTANT FINISH)
	6X6 INTERNATIONAL "NO DIVING" SYMBOL
	LIFE SAVING EQUIPMENT
1	12FT. LONG STRONG POLE WITH SHEPARD'S HOOK (LIFESAVING HOOK)
1	60 FT. THROWING ROPE AND RING BUOY
1	TELEPHONE WITH POSTED EMERGENCY NAMES AND NUMBERS.



**2 POOL LIGHTING PLAN**  
SCALE: 1/8" = 1'-0"



**1 POOL ONE-LINE DIAGRAM**  
SCALE: 1/8" = 1'-0"

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REVISIONS	DATE	DESCRIPTION
1	3/16/2018	Revised Water Feature Suction

SEAL:

**NEW POOL**  
**TERRABELLA POOL**  
[PROJECT ADDRESS]  
JOB No: 2334 DATE: 1/24/2018  
DRAWN BY: [ ] CHECKED BY: [ ]

SHEET TITLE:  
**ONE-LINE DIAGRAMS**  
DRAWING NUMBER:  
**PL-3.2**  
SHEET No: 6 of 6