

FENCE:

Florida Building Code requires that all public pools shall be surrounded by a minimum 48" high fence. The fence shall be continuous around the perimeter of the pool area that is not otherwise blocked or obstructed by adjacent buildings or structures and shall adjoin with itself or abut to the adjacent members. Access through the barrier other than from doored exits of adjacent building(s) shall be through self-closing, self-latching, lockable gates of 48" minimum height with the latch located a minimum of 54" from the bottom of the gate or at least 3" below the top of the gate on pool side. Gates shall open outward away from the pool area.

RESTROOMS

Outside access to facilities shall be provided for bathers at outdoor pools and if they are not visible from any portion of the pool deck, signs shall be posted showing directions to the facilities. These directions shall be legible from any portion of the pool deck and the letters shall be a minimum of one inch high. Walkways shall be provided between the pool and the sanitary facilities, and shall be constructed of concrete or other nonabsorbant material having a smooth slip resistant finish for the first 15 feet of the walkway measured from the nearest pool water's edge.

Floors: smooth, non-slip, impervious, pitched to floor drains, cove wall to floor, no carpet, duckboard or footbaths. Provide permanent towel, tissue, soap dispensers and waste baskets. Label doors. Install hose bib w/ vacuum breaker, either in resorts or outside nearby. Water shall be from an approved potable source with air break. Diaper changing tables shall be provided at facilities that cater to families with small children.

NOTE: Restrooms are located within 200 FT walking distance of pool waters edge.
Mens Room will have a minimum: 1 Water Closet, 2 Urinal, 1 Lavatory.
Womens room will have a minimum: 5 Water Closet, 2 Lavatory.

GENERAL NOTES:

- Structure suitable when empty for ground water not higher than 6" above main drain.
- Permanent Tile depth markers, minimum 4" high with contrasting color, slip resistant flush on deck or top of beam not more than 2 feet from water edge and inside back of gutter (glazed) minimum 4" high.
- Permanent Red International *NO DIVE* Tiles, non-slip flush minimum 4" high, on top of the deck not more than 2 feet from water edge every 25 feet of perimeter maximum see detail.
- All equipment shall have NSF, UL, or appropriate approval.
- All electrical, grounding, wiring & bonding to comply with Chapter 27, Florida building code FBC2008, Chapter 27 Electrical, NEC Section 680.26(C). No overhead power within 10 feet. Electrician must certify compliance to engineer. NEC 680.26(C) requires that all parts specified in 680.26(B) shall be connected to an equipotential bonding grid with solid copper conductor, insulated, covered, or bare, not smaller than 8 AWG or rigid metal conduit of brass or other identified corrosion-resistant metal conduit. Connection shall be made by exothermic welding or by listed pressure connectors suitable for the purpose and are of stainless steel, brass, copper, or copper alloy.
- Pool make-up water is from an approved source with air gap.
- No direct connections between water and sanitary systems, minimum 3" gap.
- Vacuum breakers on all hose bibs in pool area.
- Minimum 7" vertical clearance above deck and pool water.
- No food or drink services to be within 12 feet of inner edge pool deck.
- Walkways between pool and sanitary facilities shall be impervious, slip resistant for the first 15 feet from pool water edge.
- If night swimming is allowed, overhead lighting shall provide at least 3 foot candles of illuminations at the water and wet deck level.
- Overhead illumination of 30 foot candles at floor level in equipment room.
- Owner to provide storage of chemicals under roof, protected from access by unauthorized persons.
- Owner to provide traffic barriers at deck if needed.
- Main drain(s) to meet ASME/ANSI A112 19-8-2007, NSF50, 64E-9 and comply with Virginia Graeme Baker Act.
- Feeders to be interlocked with recirculation pump.
- Pipe: PVC schedule 40 NSFpw
- Gauges: 2" minimum; 0-60 psi.
- Test Kit: Taylor 2006 or Equal
- All electric and ground to meet 2008 NEC or local code.
- Pool makeup water supply, auto and manual fills shall have air break.
- The equipment area or collector tank or chemical containers shall not be accessible to unauthorized individuals.
- Install new equipment and plumbing per manufacturers instructions.
- Plastic pipe subject to a period of prolonged sunlight exposure must be coated to protect it from ultraviolet light degradation
- ALL EQUIPMENT MUST BE LABELED AND EASILY READ, THIS INCLUDES THE FLOWMETER.
- All equipment (pumps, motors, pressure gauges, valves, auto and manual fills, piping, filters, flow indicators and flow meters) must be operating properly before calling this office and/or the Health Department for inspection.
- Lighting certification is not part of this submittal. Contact a Lighting or Electrical engineer for certification.
- Direct access to equipment is required.
- Pool and Bathhouse electrical outlets to be GFCI with trip points 10mA or less with cover.
- Pool chemicals to be stored away from other materials in a cool, dry, ventilated area with restricted access.
- Pool to have Shepherd's Hook, Straight Pole, Ring Buoy for safety equipment.
- The deck must not have pits and crevices more than $\frac{3}{16}$ " deep.
- A flow meter shall be provided with properly located and proper clearances upstream and down stream.
- A gate to the equipment area must be provide within 10' of the equipment area.
- The equipment room area must provide clearances for all equipment as prescribed by the manufacturer to allow normal maintenance and removal.
- All equipment meets NSF/ANSI Standards 50-2007.
- Recirculation pump must havea hair and lint strainer.
- All exposed PVC piping will be painted for UV protection.
- The plans meet FBC 2010.

ZERO ENTRY POOL

Capacity: 93,510 Gallons
Area: 3,780 Square Feet
Perimeter: 318 Feet
Design Flow Rate: 650 GPM
Unit Count: 866 units
POOL RECIRCULATION PUMP: PENTAIR EQK-1000, 10 HP, 520 GPM@50' (3 PHASE)
VACUUM PUMP: STARITE, P6EA6FL, 1.5 HP
FILTER: AQUAWORKS ATFSP11DE/50.0 CUSTOM VACUUM D.E. FILTER SYSTEM
FEATURE PUMP: PENTAIR EQK-500, 5 HP, 195 GPM@70'
CHEMICAL FEEDERS: STENNER 85M5 (CL)
STENNER 45M5 (pH)
FEATURE COLLECTOR TANK: 300 GALLON, AQUA WORKS 300

Valves: Proportional flow, ball globe, or butterfly for return line, main drain, gutter and heater by-pass or approved equal, otherwise gate.Feeders to be wired with failure proof interlock with the recirculation pump.

Pipe: PVC Schedule 40 NSFpw
Gutter: Pentair 542039 (2 $\frac{1}{2}$ "x6")
Flow Meter: Blue White CF 30600P
Vacuum Fitting: Hayward VAC-LOCK
Transformers: Area Lighting LG-300 / 12Volt.
Leaf Skimmer: LION 1010
Vacuum Head: RAINBOW 214
Brush: A&B 3004
Vacuum Hose: Plastiflex
Concrete: 3500 psi, 28 day
Steel: ASTM GR40, A615
Poles: (3) Jed, 16' Straight
Heater: (3) 400,000 BTU, GAS HEATERS STARITE MAX-E-THERM SR400

Level (Static) Line Grate: SP1019.
Main Drain: (2) Lawson Aquatics (18"x18") MLD-FDG1818-SECURE meet ASME/ANSI A112 19-8-2007 NSF50, 64E-9
Inlets: Hayward SP1425
Escutcheons: Frost 41661
Lights: Amerlite Series 300w / 12Volt, ground/NEC., Ch. 27, FBC 2010.
Life Ring: (2) 24" W/30' Throw Line, Jim Buey
Hook: (2) RAINBOW 153
Test Kit: Taylor K-2006
Ladder: Smith LFB 36B
Tread: 6" Maximum from wall, 3" Minimum from wall. Crossed Braced Stainless Steel, Slip Resistant Treads, 28" minimum above deck. Must have caps or bumpers that rest firmly against pool wall.

ADULT POOL

Capacity: 72,000 Gallons
Area: 2,635 Square Feet
Perimeter: 218 Feet
Design Flow Rate: 400 GPM
Unit Count: 534 units
POOL RECIRCULATION PUMP: PENTAIR EQ-750, 7.5 HP, 400 GPM@50' (SINGLE PHASE)
VACUUM PUMP: STARITE, P6EA6FL, 1.5 HP
FILTER: AQUAWORKS ATFSP11DE/40.0 CUSTOM, 45 GRID, 4.5 SF/EA, 202.5 SF, 405 GPM CAPACITY VACUUM D.E. FILTER SYSTEM
CHEMICAL FEEDERS: STENNER 85M5 (CL)
STENNER 45M5 (pH)

Valves: Proportional flow, ball globe, or butterfly for return line, main drain, gutter and heater by-pass or approved equal, otherwise gate.Feeders to be wired with failure proof interlock with the recirculation pump.

Pipe: PVC Schedule 40 NSFpw
Gutter: Pentair 540063 (2"x4")
Flow Meter: Blue White CF 30400P
Vacuum Fitting: Hayward VAC-LOCK
Transformers: Area Lighting LG-300 / 12Volt.
Leaf Skimmer: LION 1010
Vacuum Head: RAINBOW 214
Brush: A&B 3004
Vacuum Hose: Plastiflex
Concrete: 3500 psi, 28 day
Steel: ASTM GR40, A615
Poles: (3) Jed, 16' Straight
Heater: (3) 400,000 BTU, GAS HEATERS STARITE MAX-E-THERM SR400

Level (Static) Line Grate: SP1019.
Main Drain: (2) Lawson Aquatics (12"x12") MLD-FDG1212-SECURE meet ASME/ANSI A112 19-8-2007 NSF50, 64E-9
Inlets: Hayward SP1425
Escutcheons: Frost 41661
Lights: Amerlite Series 300w / 12Volt, ground/NEC., Ch. 27, FBC 2010.
Life Ring: (2) 24" W/30' Throw Line, Jim Buey
Hook: (2) RAINBOW 153
Test Kit: Taylor K-2006
Ladder: Smith LFB 36B
Tread: 6" Maximum from wall, 3" Minimum from wall. Crossed Braced Stainless Steel, Slip Resistant Treads, 28" minimum above deck. Must have caps or bumpers that rest firmly against pool wall.

TABLE OF CONTENT:

NOTES AND SPECIFICATIONS	1
SITE PLAN	2
ZERO ENTRY POOL PLUMBING PLAN	3
ZERO ENTRY POOL LAYOUT PLANS	4
ZERO ENTRY POOL STRUCTURAL PLANS	5
ZERO ENTRY POOL FEATURE DETAILS	6
ZERO ENTRY POOL PROFILES AND DETAILS	7
ZERO ENTRY POOL EQUIPMENT DETAILS	8
ADULT POOL PLUMBING PLAN	9
ADULT POOL LAYOUT PLANS	10
ADULT POOL PROFILES AND DETAILS	11
ADULT POOL EQUIPMENT DETAILS	12
ADA PLAN	13

POST ZERO ENTRY POOL RULE SIGN

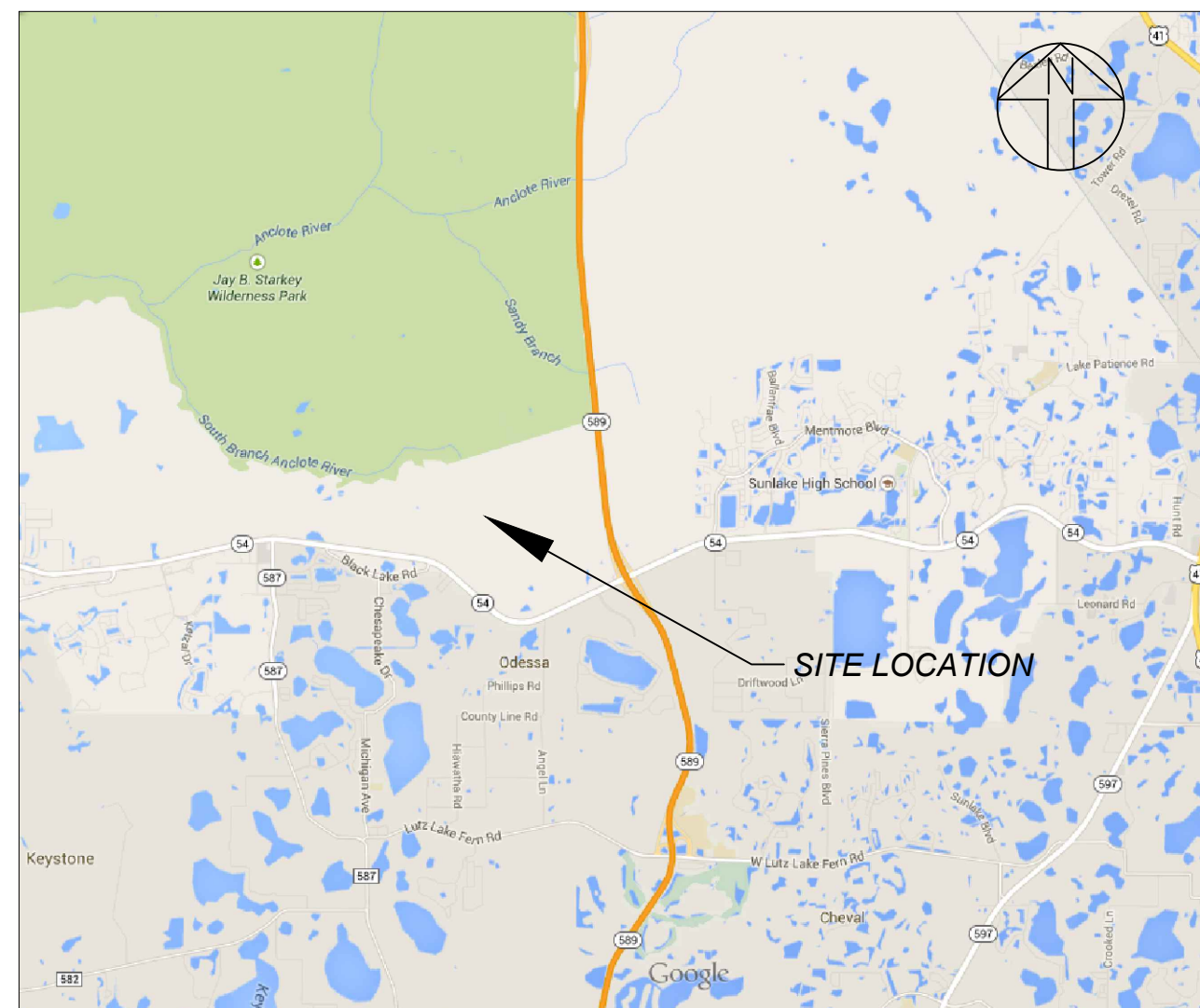
NO GLASS OR ANIMALS IN THE FENCED POOL AREA
NO FOOD OR BEVERAGES IN POOL OR ON POOL WET DECK
SHOWER BEFORE ENTERING POOL
DO NOT SWALLOW THE POOL WATER
MAX. MAIN POOL LOAD 130 PERSONS
NO DIVING
POOL HOURS DAWN a.m. TO DUSK p.m. (Untill lighting certified)

NOTE: Pool Rule Letters to be 1" high minimum except NO DIVING shall be 4" high minimum.

POST ADULT POOL RULE SIGN

NO GLASS OR ANIMALS IN THE FENCED POOL AREA
NO FOOD OR BEVERAGES IN POOL OR ON POOL WET DECK
SHOWER BEFORE ENTERING POOL
DO NOT SWALLOW THE POOL WATER
MAX. MAIN POOL LOAD 80 PERSONS
NO DIVING
POOL HOURS DAWN a.m. TO DUSK p.m. (Untill lighting certified)

NOTE: Pool Rule Letters to be 1" high minimum except NO DIVING shall be 4" high minimum.



LOCATION MAP -
NTS
ADDRESS: OFF ROUTE 54
ODESSA, FLORIDA
PASCO COUNTY

GB Collins Engineering P.A.
Certificate of Authorization 27934

Samuel A. Pikenore PE 55710 Phone: (727) 442-8463
1268 Rogers Street Clearwater, FL 33756 Fax: (727) 442-6988
gc_collins@verizon.net

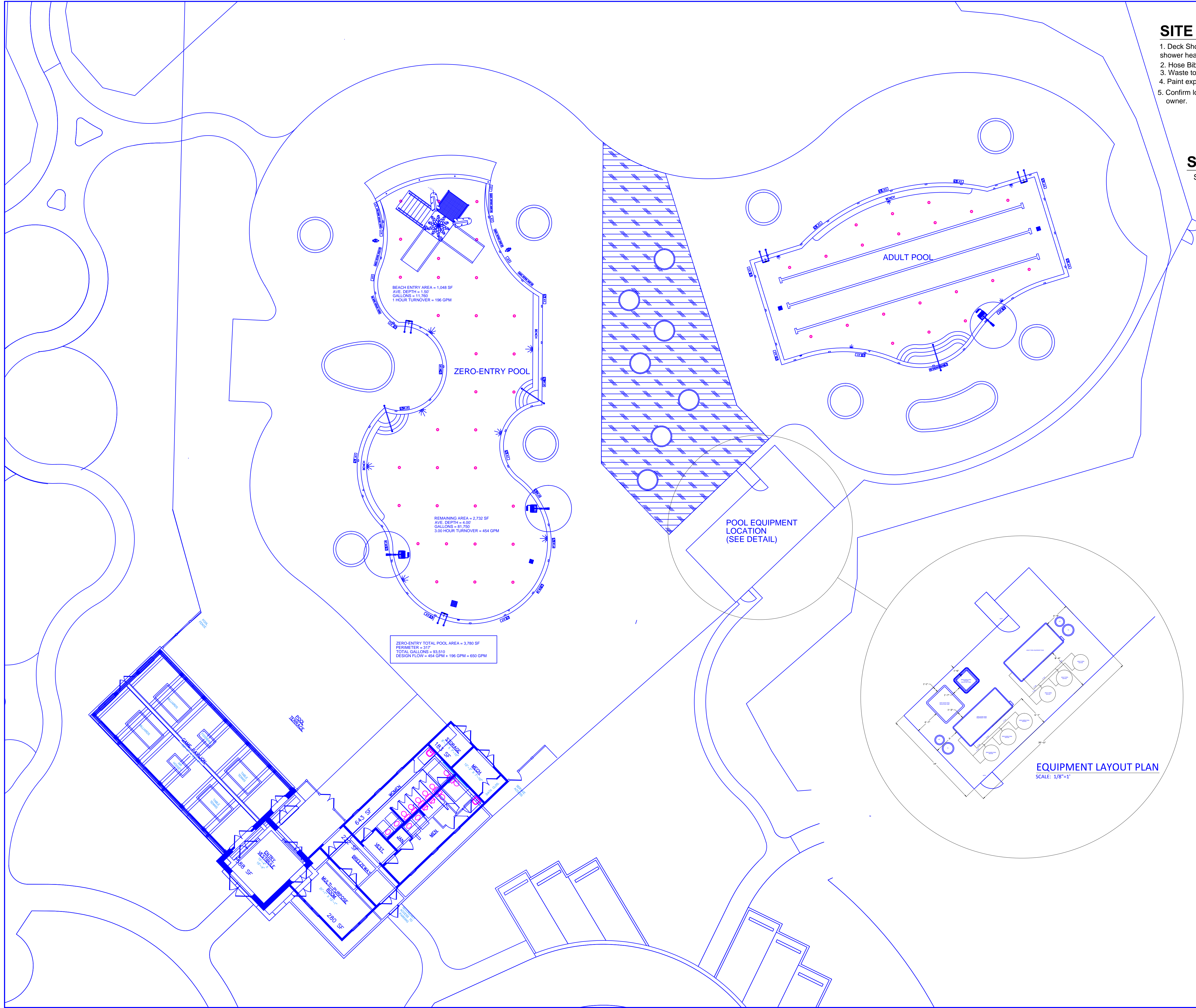
For: NNP - Bexley, LLC

Bexley Ranch Amenity
Zero Entry Pool and Adult Pool
Notes and Specifications

SAL 5/4/15

No.	Revision/Issue	Date

Sheet 1 of 13



BEACH ENTRY AREA = 1,048 SF
 AVE. DEPTH = 1.50'
 GALLONS = 11,760
 1 HOUR TURNOVER = 196 GPM

REMAINING AREA = 2,732 SF
 AVE. DEPTH = 4.00'
 GALLONS = 81,720
 3.00 HOUR TURNOVER = 454 GPM

ZERO-ENTRY TOTAL POOL AREA = 3,780 SF
 PERIMETER = 317'
 TOTAL GALLONS = 93,510
 DESIGN FLOW = 454 GPM + 196 GPM = 650 GPM

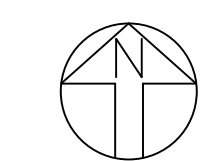
ADULT POOL

POOL EQUIPMENT LOCATION
 (SEE DETAIL)

EQUIPMENT LAYOUT PLAN
 SCALE: 1/8"=1'

SITE PLAN NOTES:

1. Deck Shower required within 20' of pool, shower head to min. 7' above deck.
2. Hose Bib with vacuum breaker required on deck.
3. Waste to storm or retention.
4. Paint exposed PVC.
5. Confirm locations and elevations with the owner.



Site Plan
 SCALE: 3/32"=1'

SAL 5/4/15

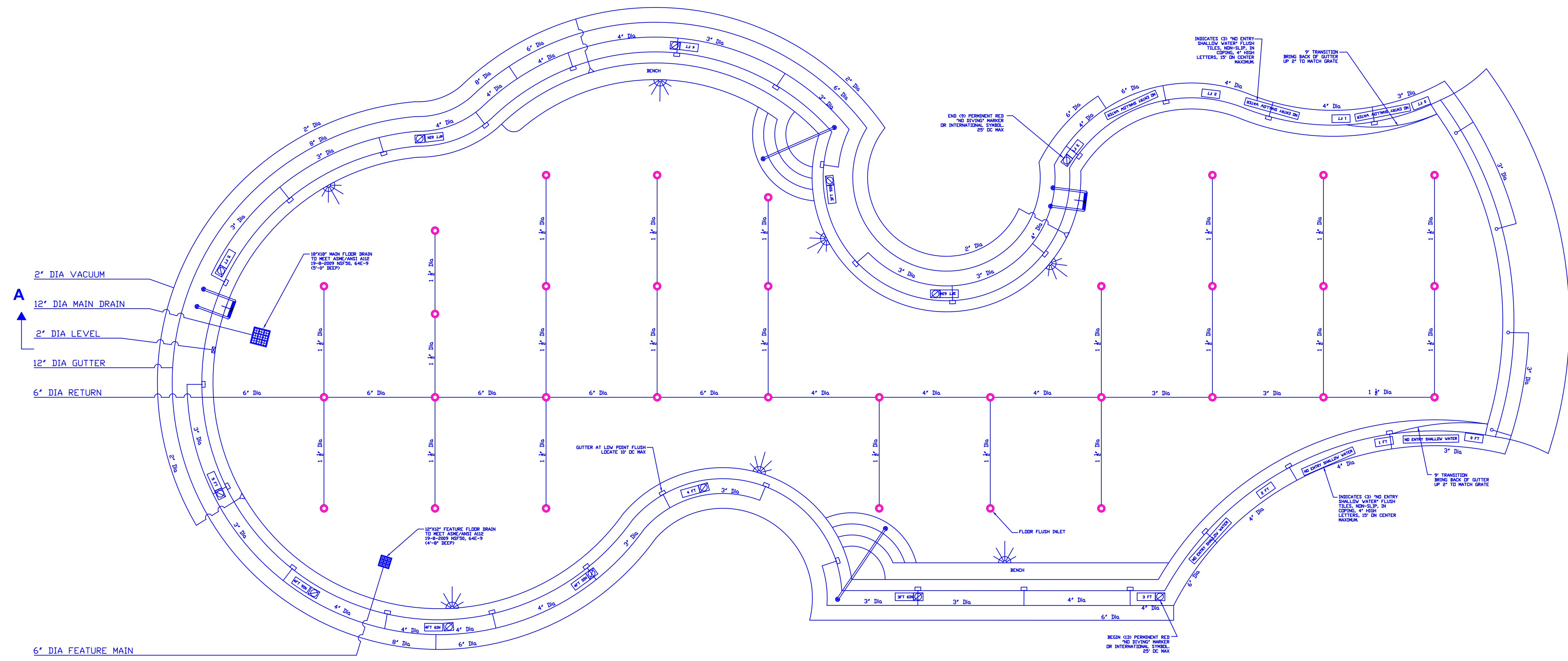
For: NNP - Bexley, LLC

Bexley Ranch Amenity
 Zero Entry Pool and Adult Pool
 Site Plan and Notes

No.	Revision/Issue	Date

GB Collins Engineering P.A.
 Certificate of Authorization 27934

Samuel A. Liberatore PE 53710
 1268 Rogers Street
 Clearwater, FL 33756
 Phone: (727) 442-8463
 Fax: (727) 442-6988
 gcollins@verizon.net



LEGEND

- (7) LIGHT(S)
- (2) MAIN DRAIN
- (33) FLOOR INLETS
- (1) LEVEL
- (30) GUTTERS (2 1/2" x 6")
- (4) GUTTERS/ GRATE DRFICE
- (3) VACUUM FITTINGS
- 4FT-6IN DEPTH MARKER(S)
- NO DIVING (9) "NO DIVING" MARKER(S)
- (2) LADDER(S)

POOL PLUMBING PLAN

SCALE: 3/16" = 1'

SAL 5/4/15

For: NNP - Bexley, LLC

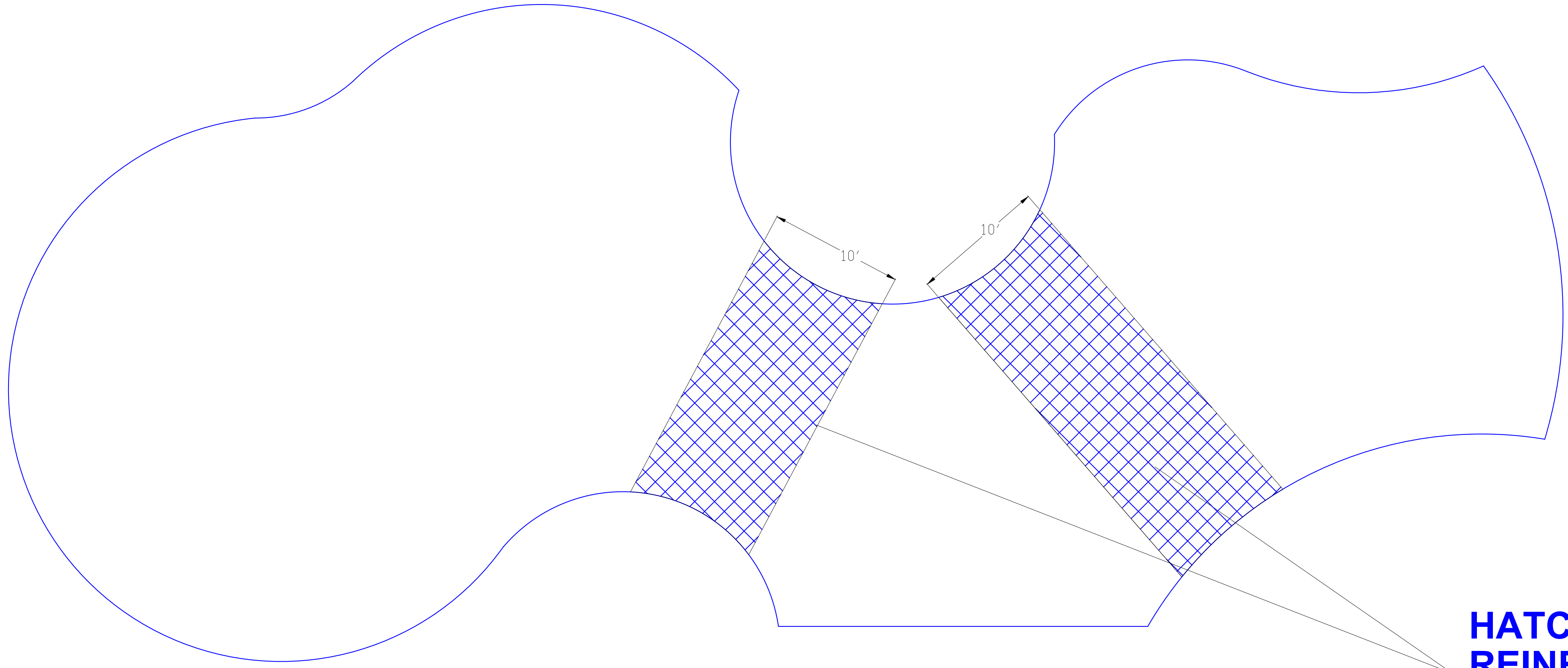
Bexley Ranch Amenity
 Zero Entry Pool and Adult Pool
 Zero Entry Pool Plumbing Plan

No.	Revision/Issue	Date

Sheet 3 of 13

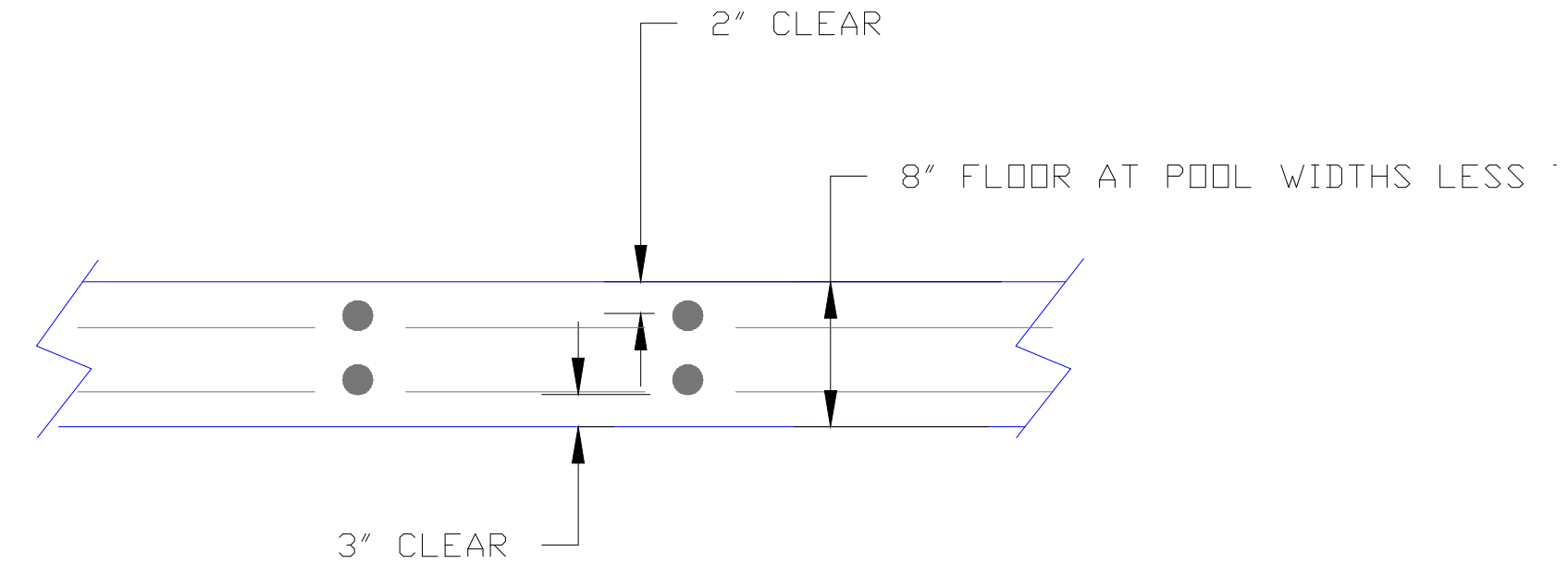
GB Collins Engineering PA
Certificate of Authorization 27934

Samuel A. Liberatoro PE 55740
 1268 Rogers Street Phone: (727) 442-8443
 Clearwater, FL 33756 Fax: (727) 442-6988
 g_b_collins@verizon.net



STRUCTURAL PLAN
SCALE: 3/16" = 1'

HATCHED AREAS TO BE REINFORCED
8" THICK WITH #3 BAR
6" O.C.E.W. OR (2) MATS
WITH #3 BAR 12"
O.C.E.W.
(SEE DETAIL)



NOTE:
USE 2 MATS, #3 BAR 12" O.C.E.W OR
USE 1 MAT, #3 BAR 6" O.C.E.W.

Reinforced Floor Detail
N.T.S.

SAL 5/4/15

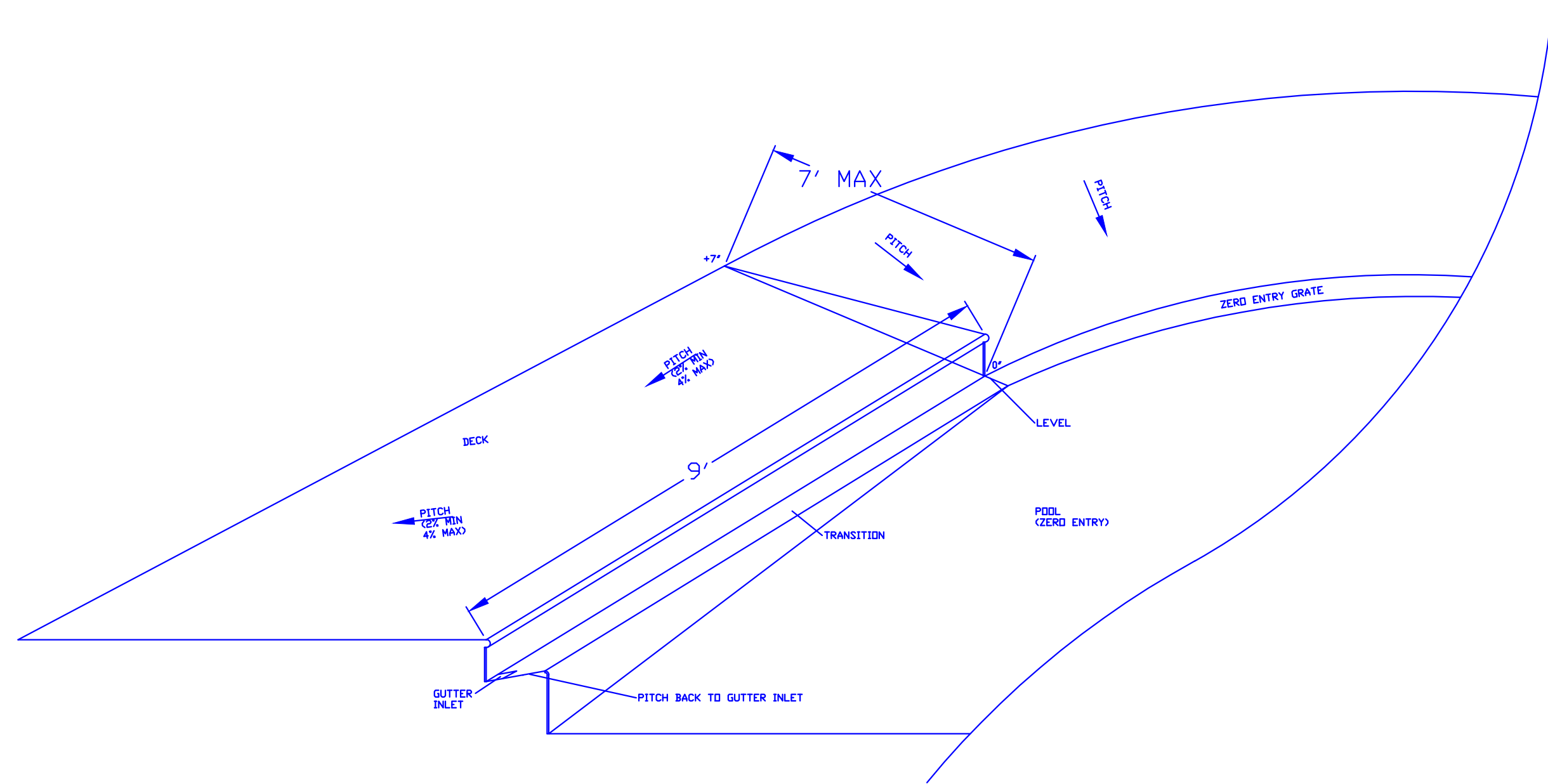
For: NNP - Bexley, LLC

Bexley Ranch Amenity
Zero Entry Pool and Adult Pool
Zero Entry Pool Structural Plan

GB Collins Engineering PA
Certificate of Authorization 27934

Samuel A. Liberatori PE 55740
1268 Rogers Street Phone: (727) 442-8443
Clearwater, FL 33756 Fax: (727) 442-6988
gfcollins@verizon.net

No.	Revision/Issue	Date

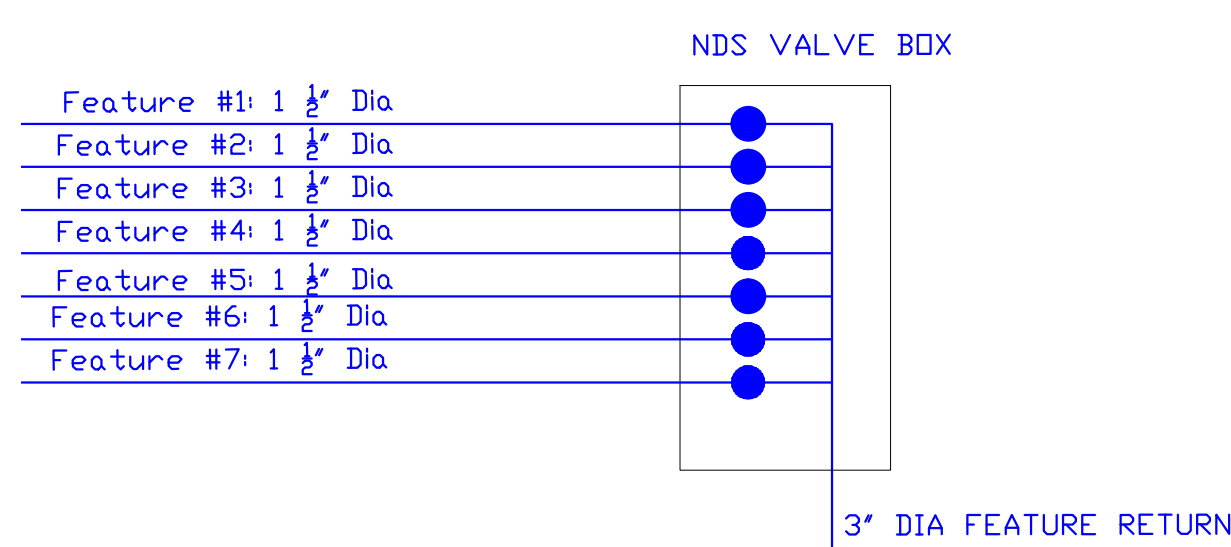


ISOMETRIC VIEW OF TRANSITION FOR ZERO ENTRY
N.T.S.

FEATURE FLOWS

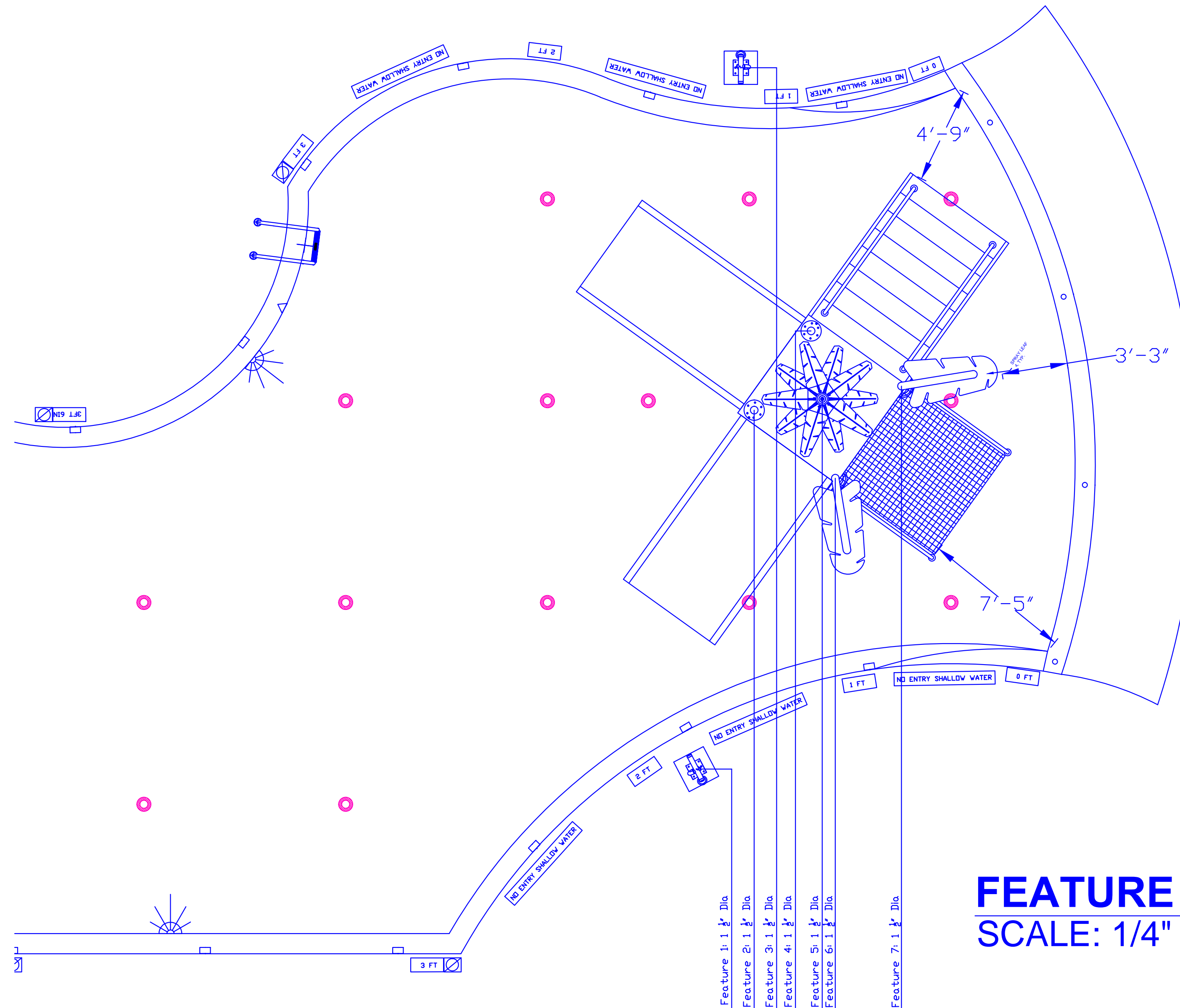
FEATURE	PIPE RETURN SIZE	FLOW
1. AQUA CANNON	1 1/2" DIA	10 GPM
2. AQUA POST	1 1/2" DIA	12 GPM
3. AQUA CANNON	1 1/2" DIA	10 GPM
4. AQUA POST	1 1/2" DIA	12 GPM
5. AQUA PALM	1 1/2" DIA	22 GPM
6. AQUA LEAF	1 1/2" DIA	20 GPM
7. AQUA LEAF	1 1/2" DIA	20 GPM
TOTAL		106 GPM

NOTE: Flow velocity through feature nozzles shall not exceed 20 feet per second.

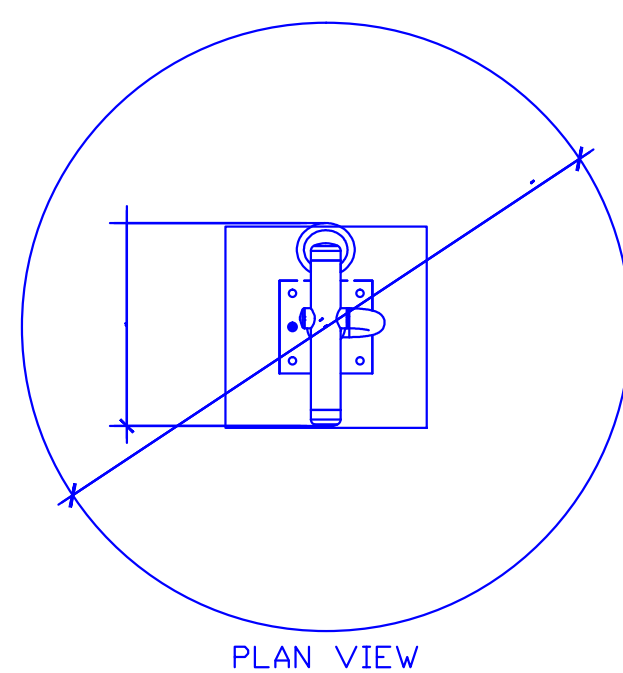


VALVE BOX DETAIL
SCALE: NTS

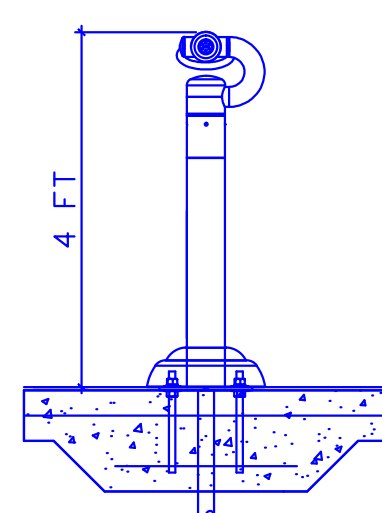
NOTE: VALVE BOX LOCATION TO BE DETERMINED BY OWNER AND CONTRACTOR



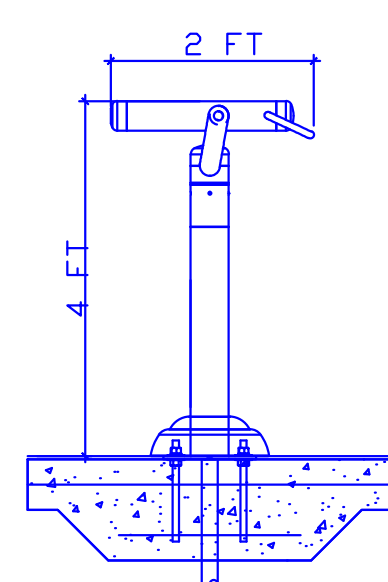
FEATURE PLAN
SCALE: 1/4" = 1'



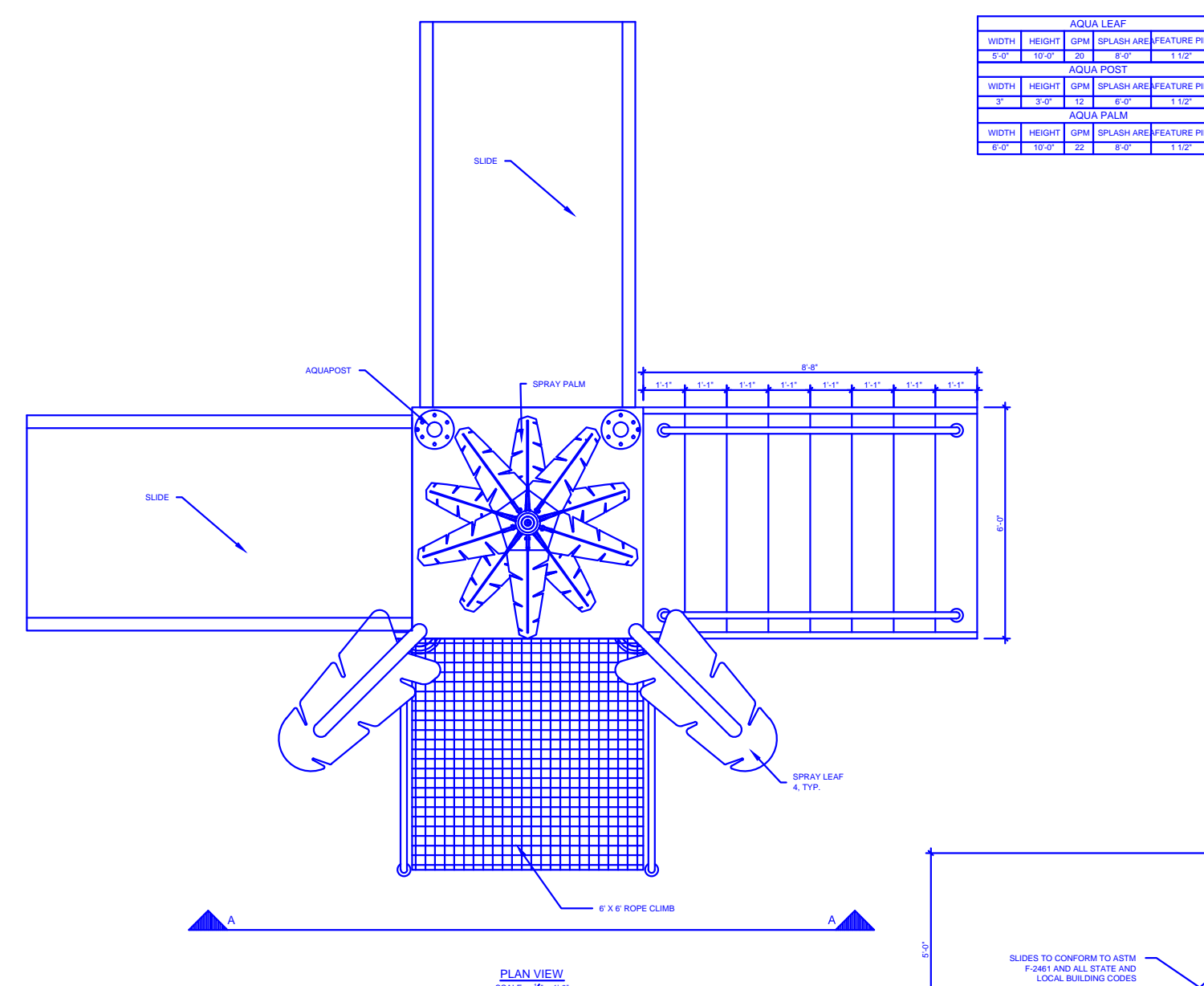
AQUA CANNON				
WIDTH	HEIGHT	GPM	SPLASH AREA	FEATURE PIPE
2'-0"	3'-6"	10	6'-0"	1 1/2"



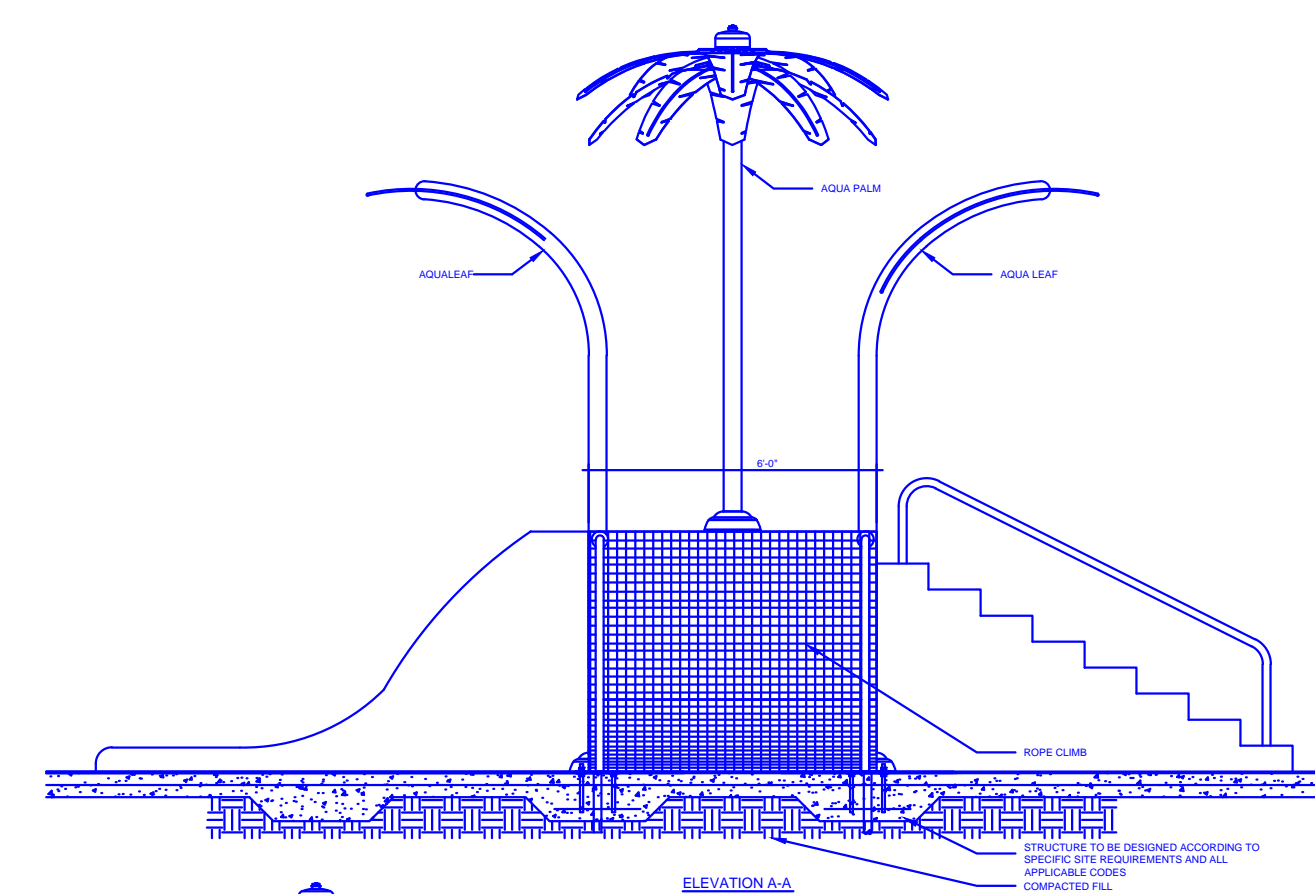
FRONT ELEVATION



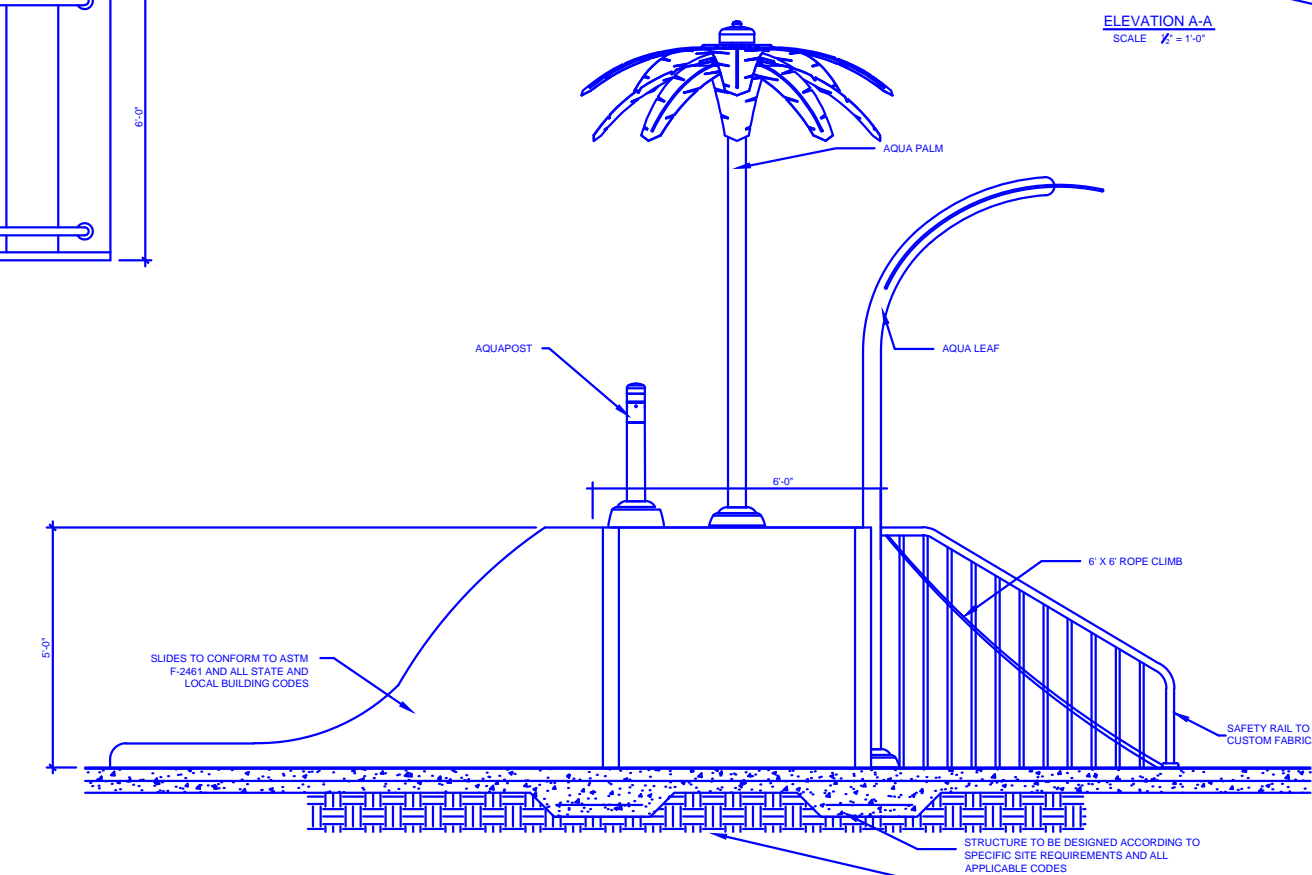
SIDE ELEVATION



PLAN VIEW
SCALE: 1/4" = 1'



ELEVATION A.A.
SCALE: 1/4" = 1'



ELEVATION B.B.
SCALE: 1/4" = 1'

SAL 5/4/15

For: NNP - Bexley, LLC

Bexley Ranch Amenity
Zero Entry Pool and Adult Pool
Zero Entry Pool Feature Details

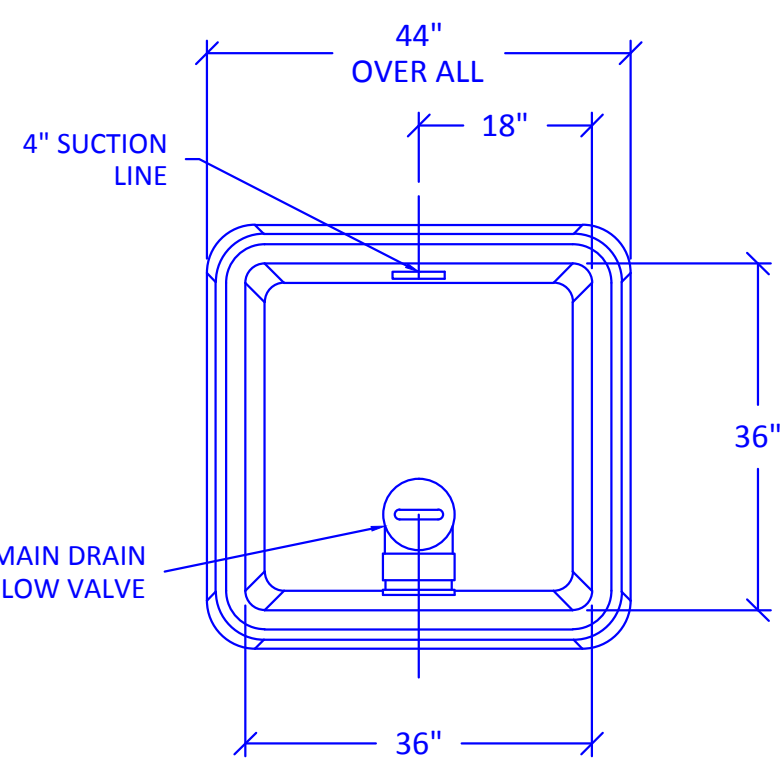
No.	Revision/Issue	Date

GB Collins Engineering PA
Certificate of Authorization 27934

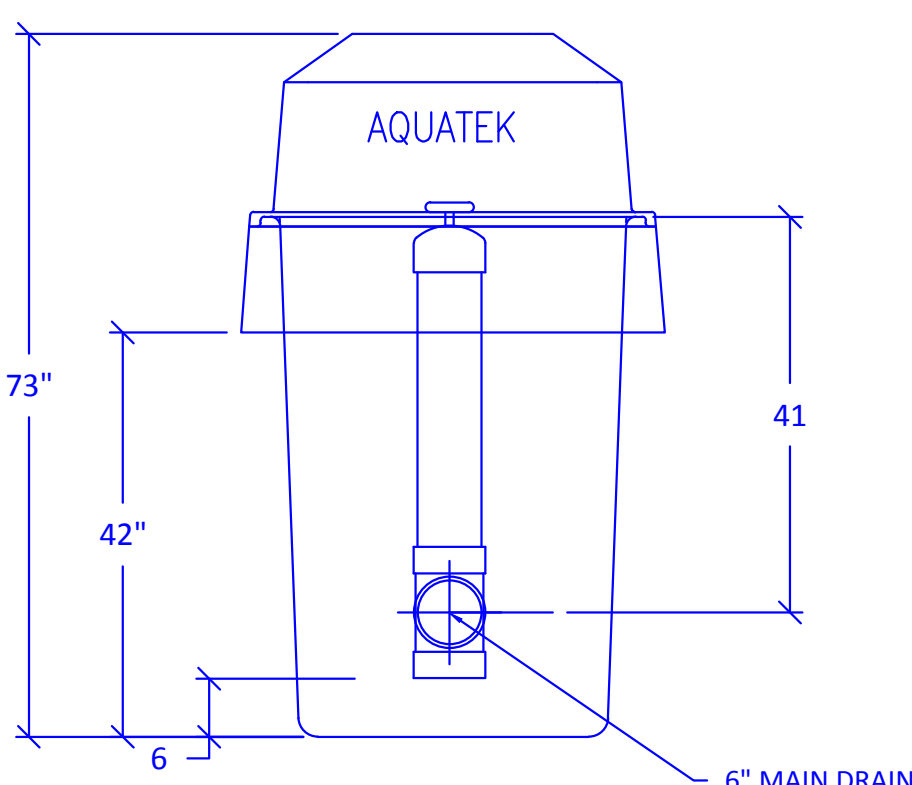
Samuel A. Liberatore PE 53710
1208 Rogers Street
Clearwater, FL 33756
Phone: (727) 442-8443
Fax: (727) 442-6988
gb_collins@verizon.net

NOTES:

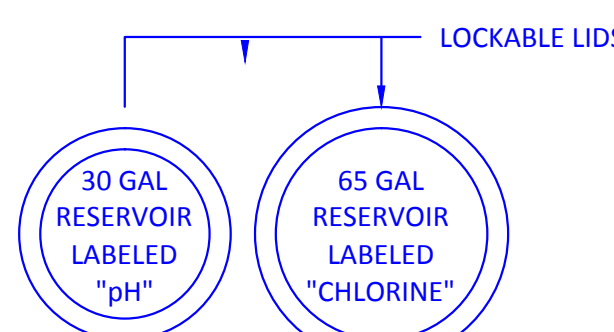
1. ALL PLASTIC PIPE SUBJECT TO PERIOD OF PROLONGED SUNLIGHT EXPOSURE MUST BE COATED TO PROTECT IT FROM ULTRAVIOLET LIGHT DEGRADATION.
2. EACH WASTE LINE SHALL HAVE A UNIQUE AIR GAP. WASTE LINES FROM DIFFERENT SOURCES (e.g. POOL, SPA, OVERFLOW, SUMP PUMP) SHALL NOT BE TIED TOGETHER, BUT MAY DISCHARGE INTO A COMMON SUMP OR RECEPTACLE AFTER THE AIR GAP.
3. THE WASTE LINE MUST BE CONNECTED TO A WASTE DISPOSAL SYSTEM ACCORDING TO LOCAL OR STATE CODES.
4. ALL COLLECTOR TANKS HAVE COVERED INTERSECTIONS AND SLOPE TO THE TANK DRAIN.



FEATURE TANK PLAN

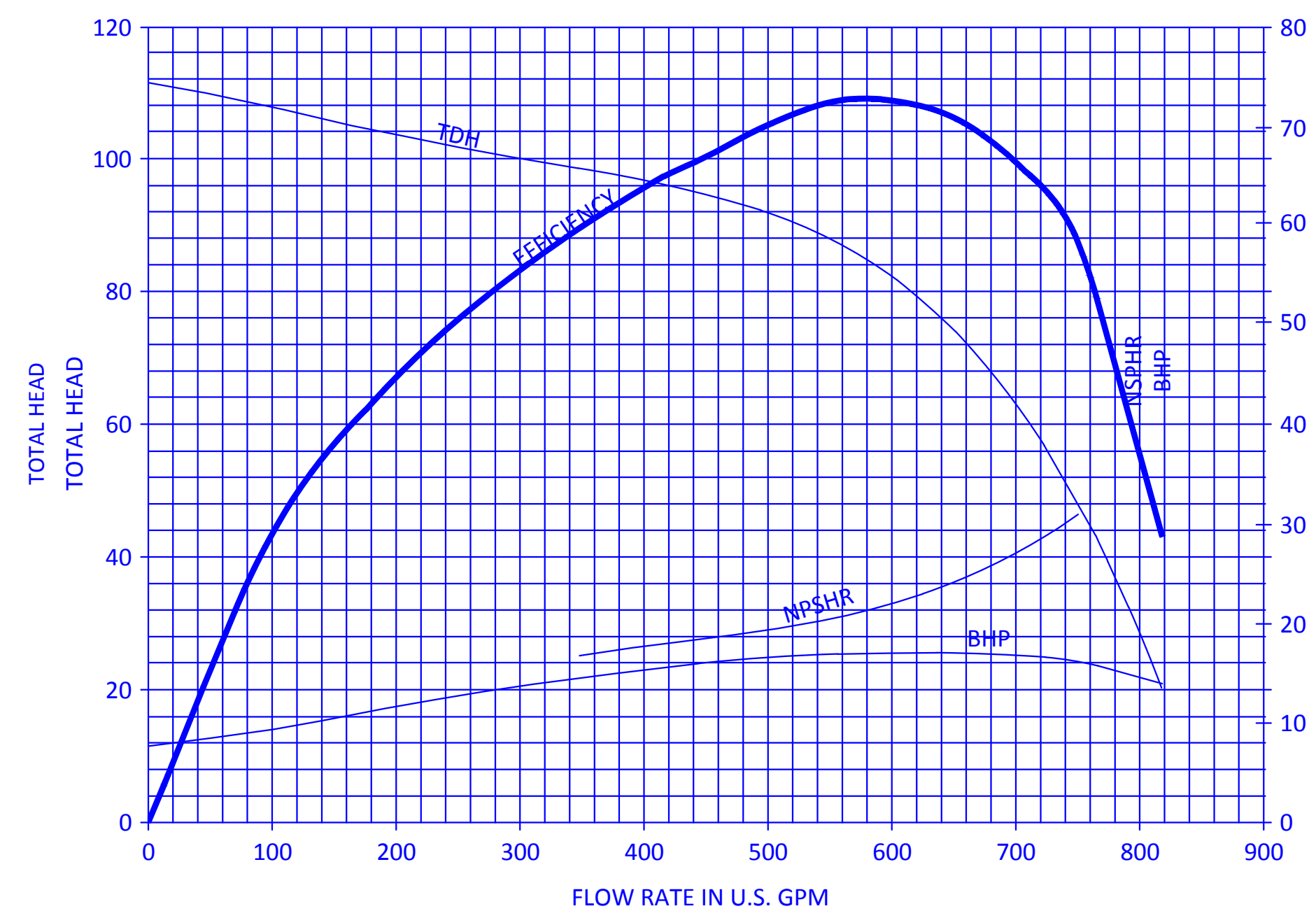


FEATURE TANK ELEVATION



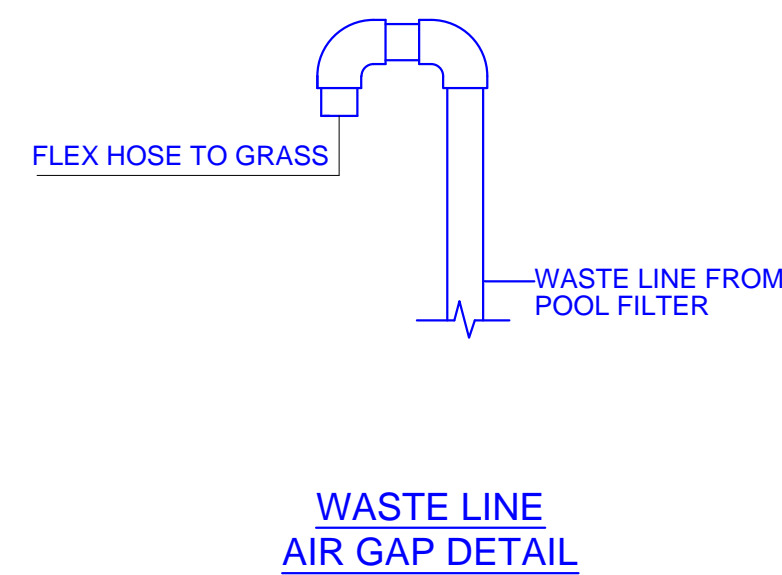
LOCKABLE LIDS

PENTAIR EQ SERIES PERFORMANCE CURVE EQ1500



RECIRCULATION PUMP CURVE

THESE PLANS HAVE BEEN PREPARED IN COMPLIANCE WITH THE 2010 FLORIDA BUILDING CODES.



WASTE LINE AIR GAP DETAIL

NOTES:

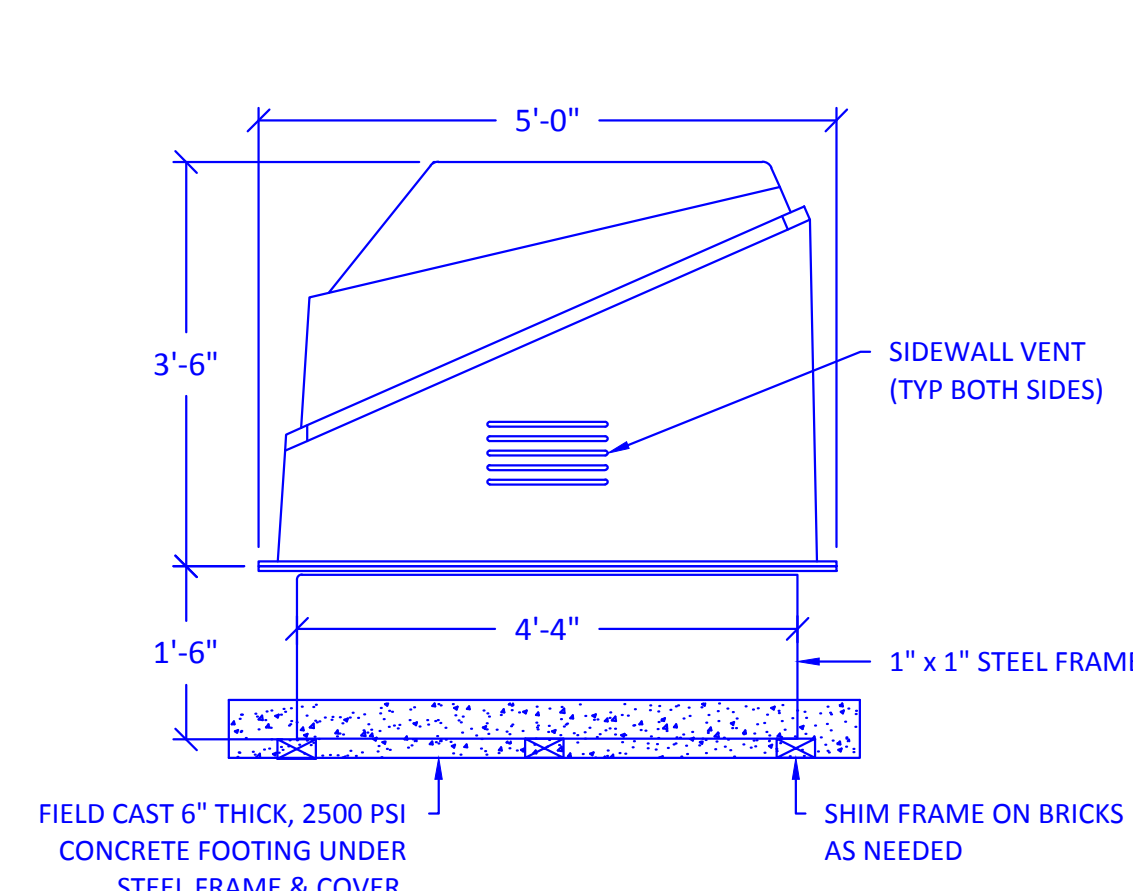
1. PLUMBING - ALL PIPE AND FITTINGS SHALL BE SCHEDULE 40 PVC PER ASTM D1785 AND N.S.F. APPROVED AND STAMPED FOR POTABLE WATER APPLICATIONS. JOINTS TO BE SOLVENT WELDED JOINTS PER ASTM D2855. ALL PLUMBING EQUIPMENT AND MATERIALS SHALL CONFORM TO THE FLORIDA BUILDING CODE, PLUMBING 2010
2. ELECTRICAL SYSTEM - ALL ELECTRICAL EQUIPMENT WIRING, INSTALLATION AND GROUNDING OF POOL COMPONENTS SHALL CONFORM WITH NATIONAL FIRE PROTECTION ASSOC. 70, NATIONAL ELECTRICAL CODE (N.E.C.), LATEST EDITION, AND ALL APPLICABLE LOCAL CODES AND SHALL BE CERTIFIED AS SUCH BY THE ELECTRICAL CONTRACTOR. CHEMICAL PUMPS TO BE ELECTRICALLY INTERLOCKED WITH RECIRCULATION PUMP.
3. EQUIPMENT - ALL PUMPS, FILTERS, AND DISINFECTION EQUIPMENT MUST BE TESTED AND APPROVED USING THE NSF/ANSI STANDARD 50-2007 AND LISTED APPROVED BY NSF.
4. THE FILTER ROOM FLOOR IS SLIP-RESISTANT AND SLOPED TO FLOOR DRAINS

PIPE AND VALVES CHART

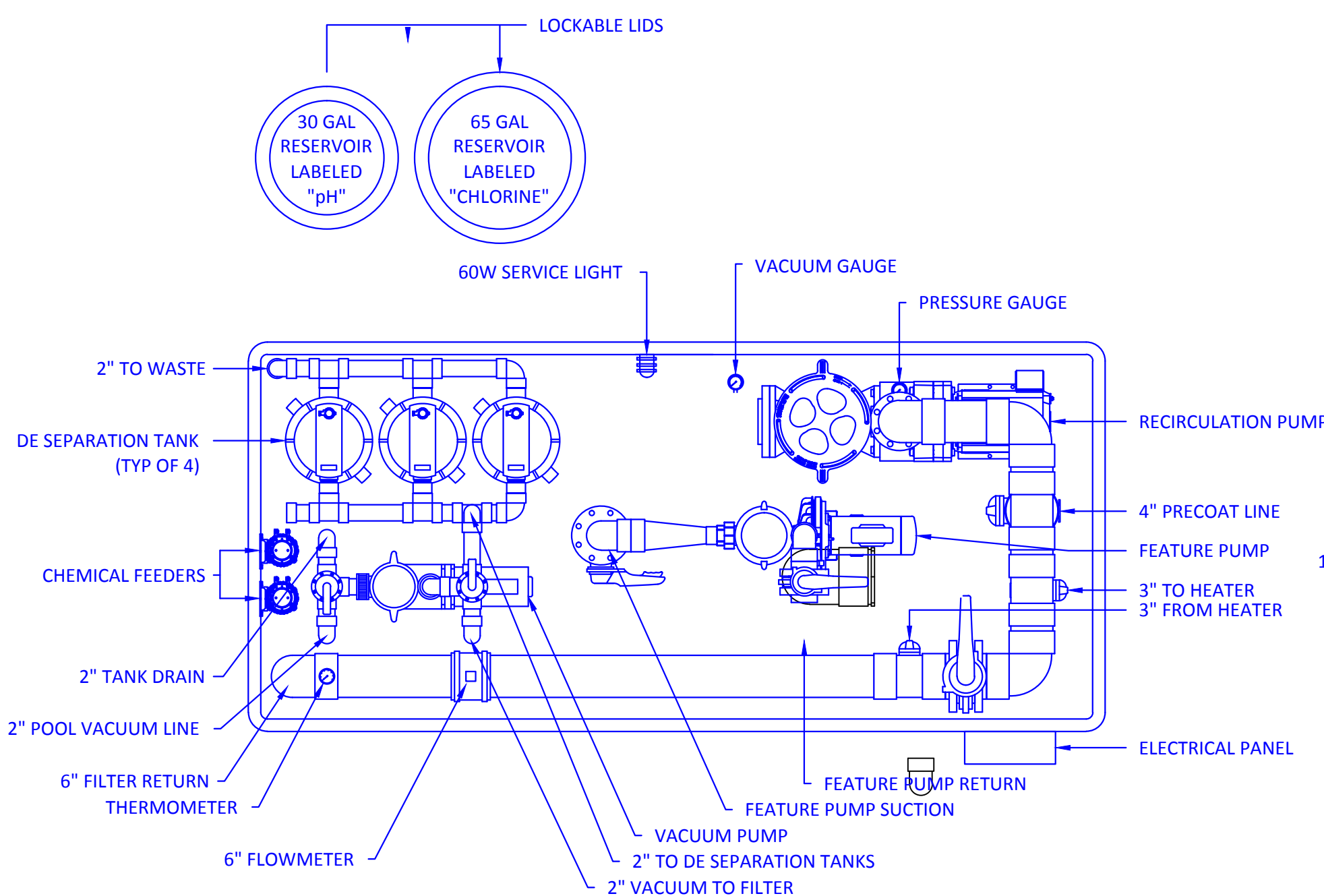
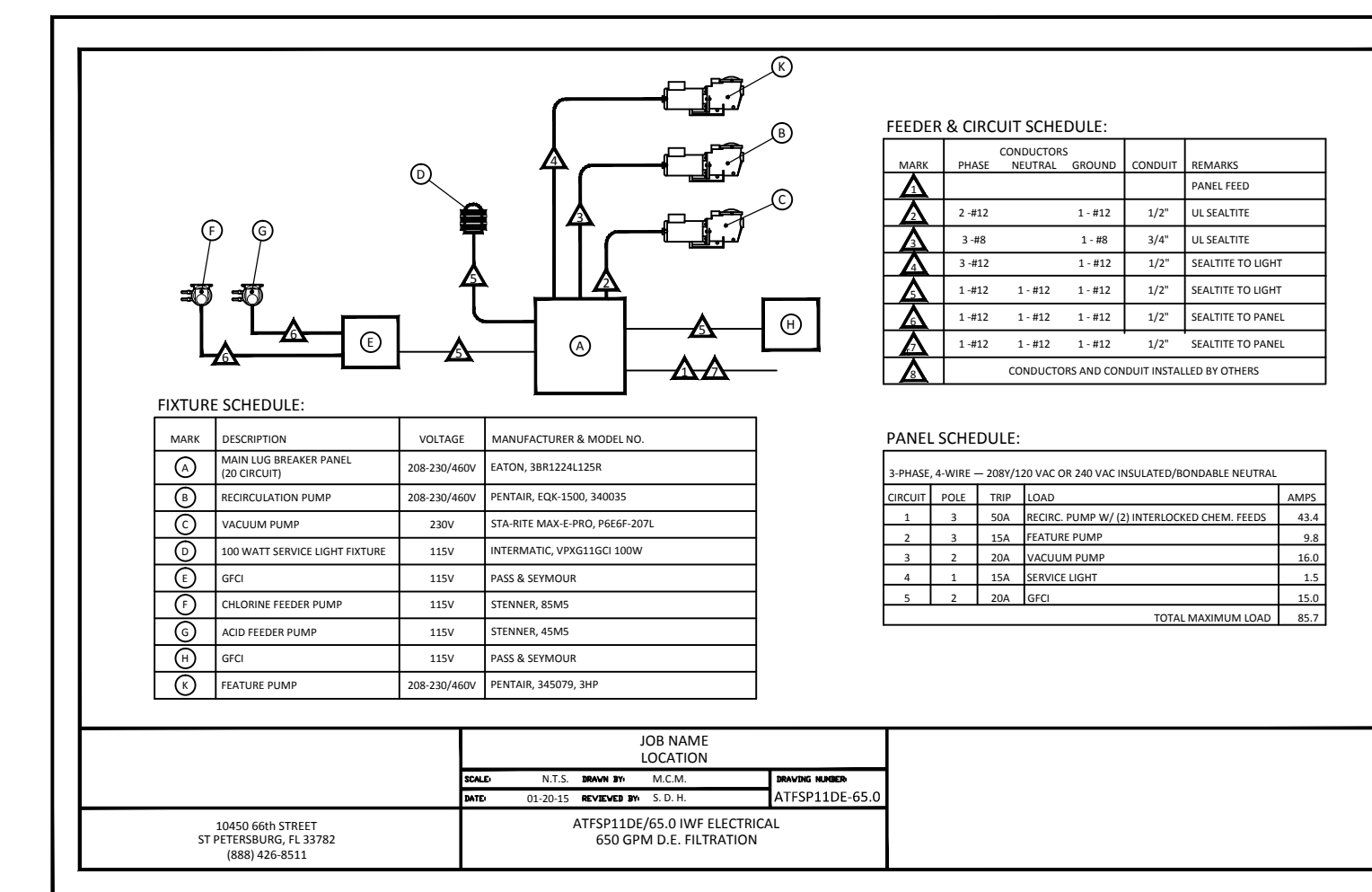
LINE FUNCTION	SIZE
FILTER TANK MAIN DRAIN	12"
GUTTER/SKIMMER	12"
STATIC LINE	2"
RECIRCULATION PUMP SUCTION	8"
RECIRCULATION RETURN	6"
VACUUM LINE TO POOL	2"
VACUUM TO FILTER	2"
VACUUM TO WASTE	2"
FILTER PRECOAT	4"
OVERFLOW	2"
TO HEATER	3"
FROM HEATER	3"
FEATURE MAIN DRAIN	6"
FEATURE SUCTION	4"
FEATURE RETURN	3"

VACUUM DE FILTER EQUIPMENT LIST

RECIRCULATION PUMP	PENTAIR EQ1500 WITH STRAINER, 15 HP, 650 GPM @ 50' TDH, 208-230/460V, 3Ø, MODEL 340035
VACUUM PUMP	PENTAIR MAX-E-PRO P6E6F-207L, 1.5 HP WITH INTEGRAL STRAINER, 230V, 1 Ø
FILTER TANK SIZE	AT1000, 1000 GALLON TOTAL CAPACITY 59"D 54"W 86"L
DE FILTER ELEMENTS	(73) - 13.5" x 24" ELEMENTS, 4.5 SQ FT EACH, 325 SQ FT TOTAL
WATER LEVEL CONTROL	AQUATEK HYDRAULIC VALVE W/ MANUAL FILL VALVE & RESERVOIR
CHLORINE FEEDER	85M5
CHLORINE RESERVOIR TANK	65 GALLON WITH LOCKABLE LID
pH FEEDER	45M5
pH RESERVOIR TANK	30 GALLON WITH LOCKABLE LID
SEPARATOR TANK(S)	(3) - PENTAIR PEN100, 100 SQ FT EA, 300 SQ FT TOTAL
FLOWMETER	6" BLUE/WHITE F-30600P, 250 TO 1,050 GPM RANGE
THERMOMETER	PRECISION INSTRUMENT CO B2B1-K WITH 1/2" NPT THERMOWELL
VACUUM GAUGE	WIKA, 0-30 IN HG, LIQUID FILLED, 1/4" NPT, 2" FACE DIAMETER
PRESSURE GAUGE	WIKA, 0-60 PSI, LIQUID FILLED, 1/4" NPT, 2" FACE DIAMETER
CHEMISTRY CONTROLLER	N/A
FEATURE PUMP	PENTAIR MAX-E-PRO P6E6H-209L, 3 HP WITH INTEGRAL STRAINER, 230V, 1 Ø
FEATURE TANK SIZE	AT215, 215 GALLON CAPACITY

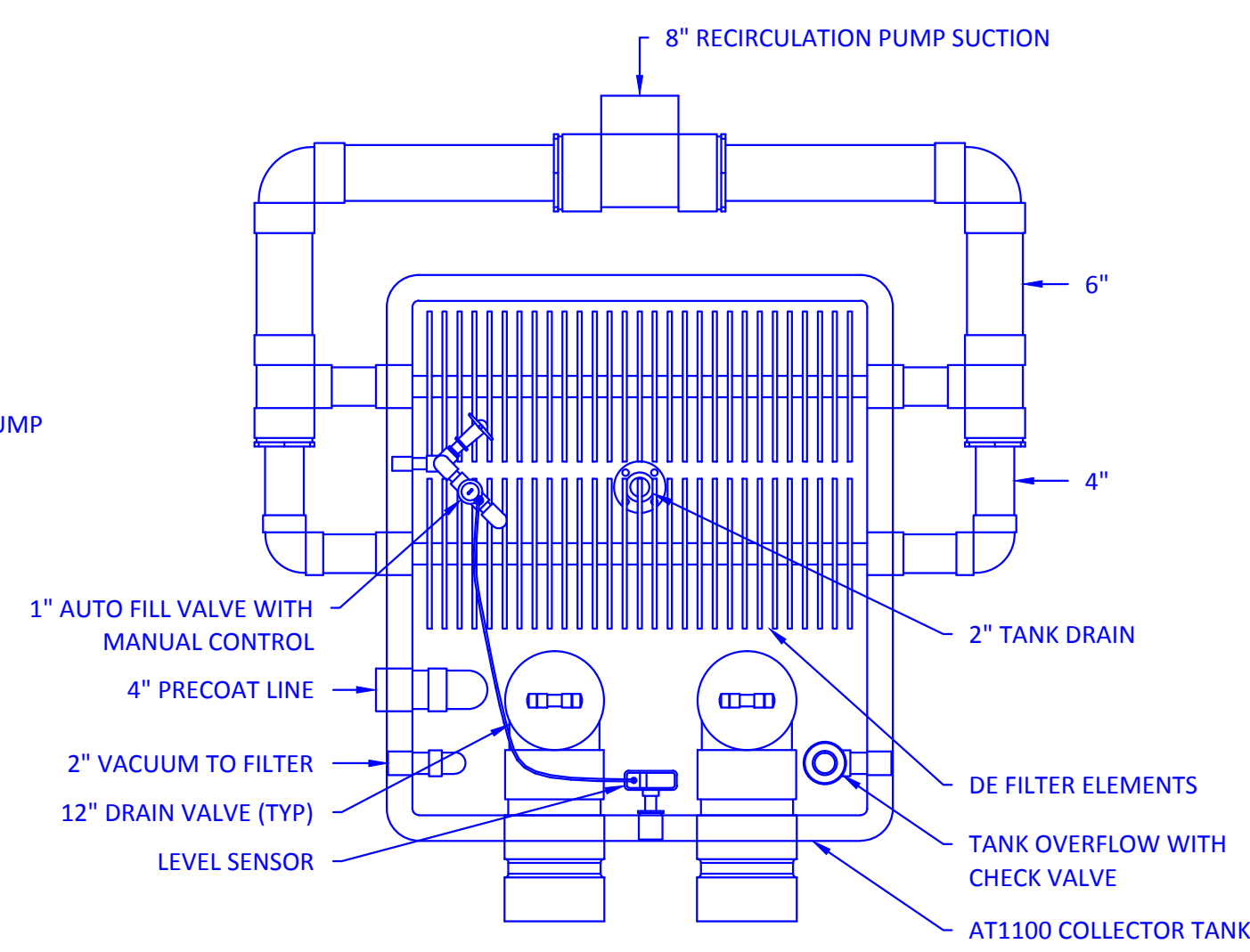


FILTER TANK SIDE ELEVATION



FILTER EQUIPMENT PLAN

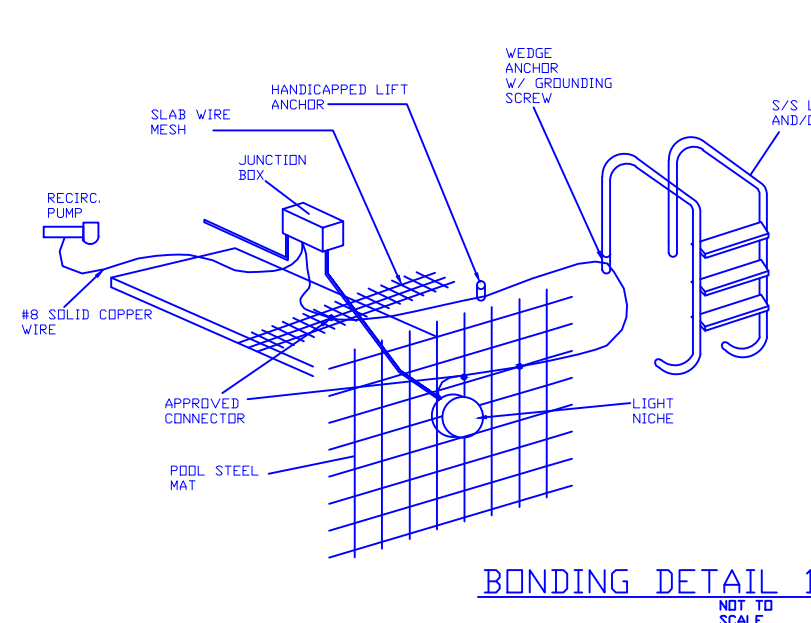
AWDE650./73 - FILTER SYSTEM



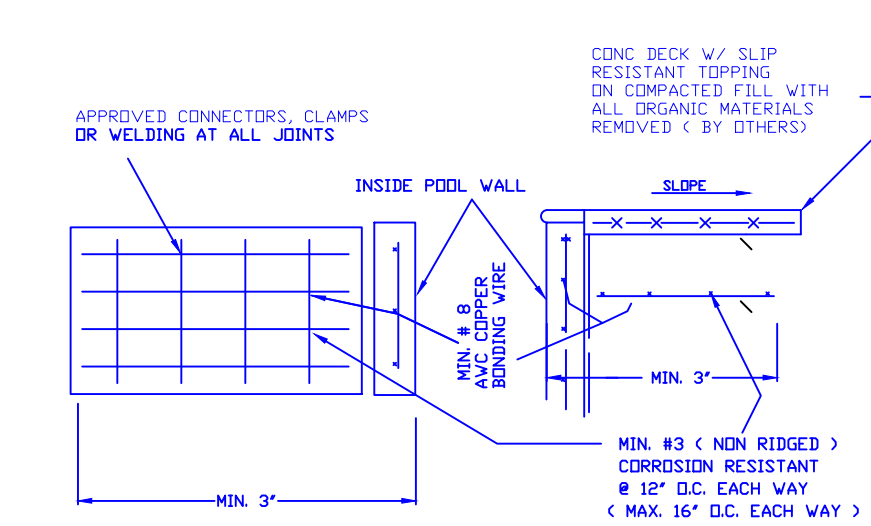
FILTER TANK PLAN VIEW

NOTE: ALL METAL LOCATED WITHIN 5 FEET OF POOL WATER SHALL BE BONDED.

NOTE: JUNCTION BOXES TO BE LOCATED ALONG THE EDGE OF DECK AND 12" ABOVE COPING



BONDING DETAIL 1



BONDING DETAIL

DECK BONDING GRID MUST COMPLY WITH N.E.C. CODE (ARTICLE 680.26 (C))

SAL 5/4/15

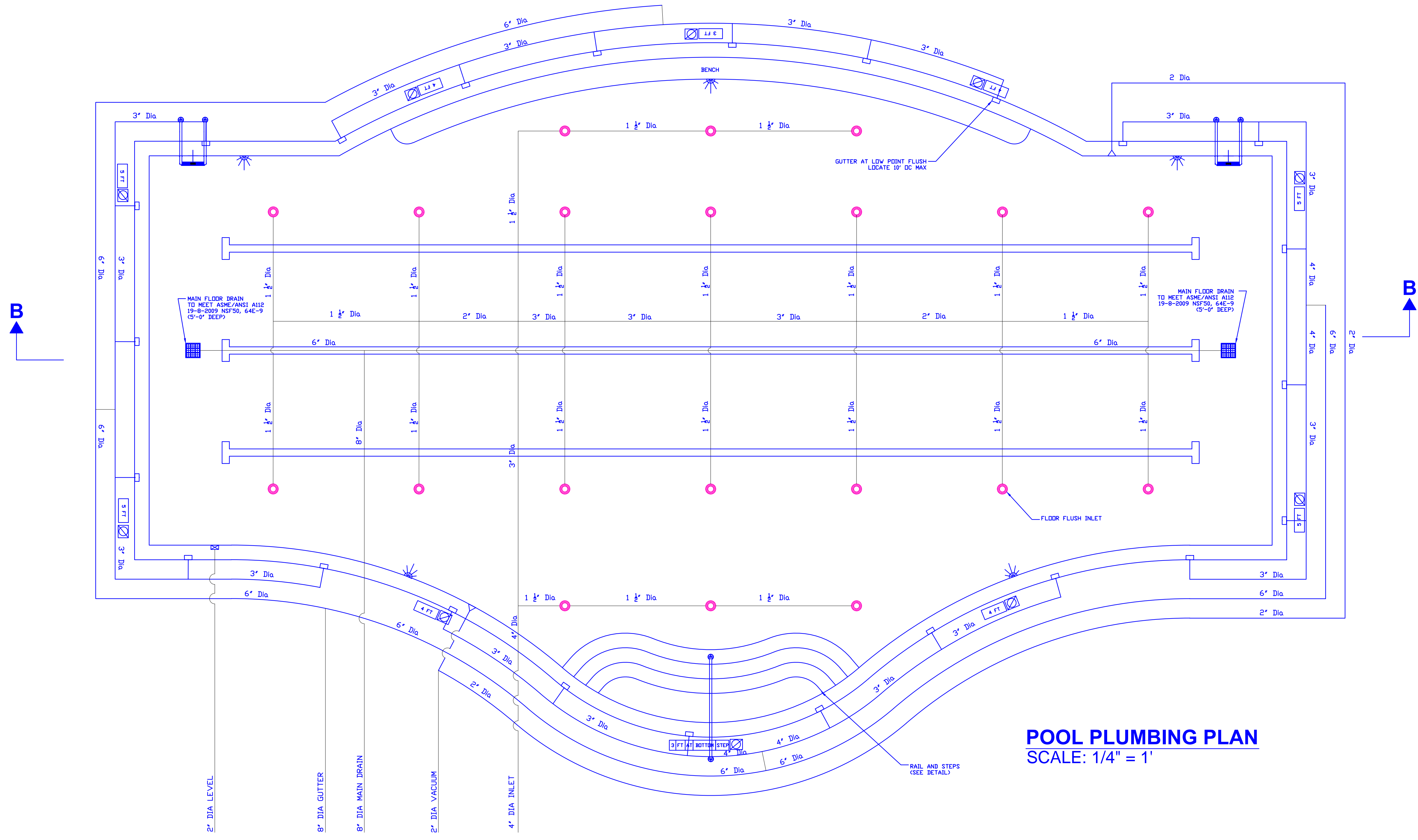
For: **NNP - Bexley, LLC**

**Bexley Ranch Amenity
Zero Entry Pool and Adult Pool
Zero Entry Pool Equipment Details**

No.	Revision/Issue	Date

GB Collins Engineering PA
Certificate of Authorization 27934

Samuel J. Liberatori PE 55740
1208 Regent Street Phone: (727) 442-8443
Clearwater, FL 34756 Fax: (727) 442-6988
gb_collins@verizon.net



- LEGEND**
- (5) LIGHT(S)
 - (2) MAIN DRAIN
 - (20) FLOOR INLETS
 - (1) LEVEL
 - (24) GUTTERS
 - (2) VACUUM FITTINGS
 - (MFT-6IN) DEPTH MARKER(S)
 - (10) "NO DIVING" MARKER(S)
 - (2) LADDER(S)

POOL PLUMBING PLAN
SCALE: 1/4" = 1'

SAL 5/4/15

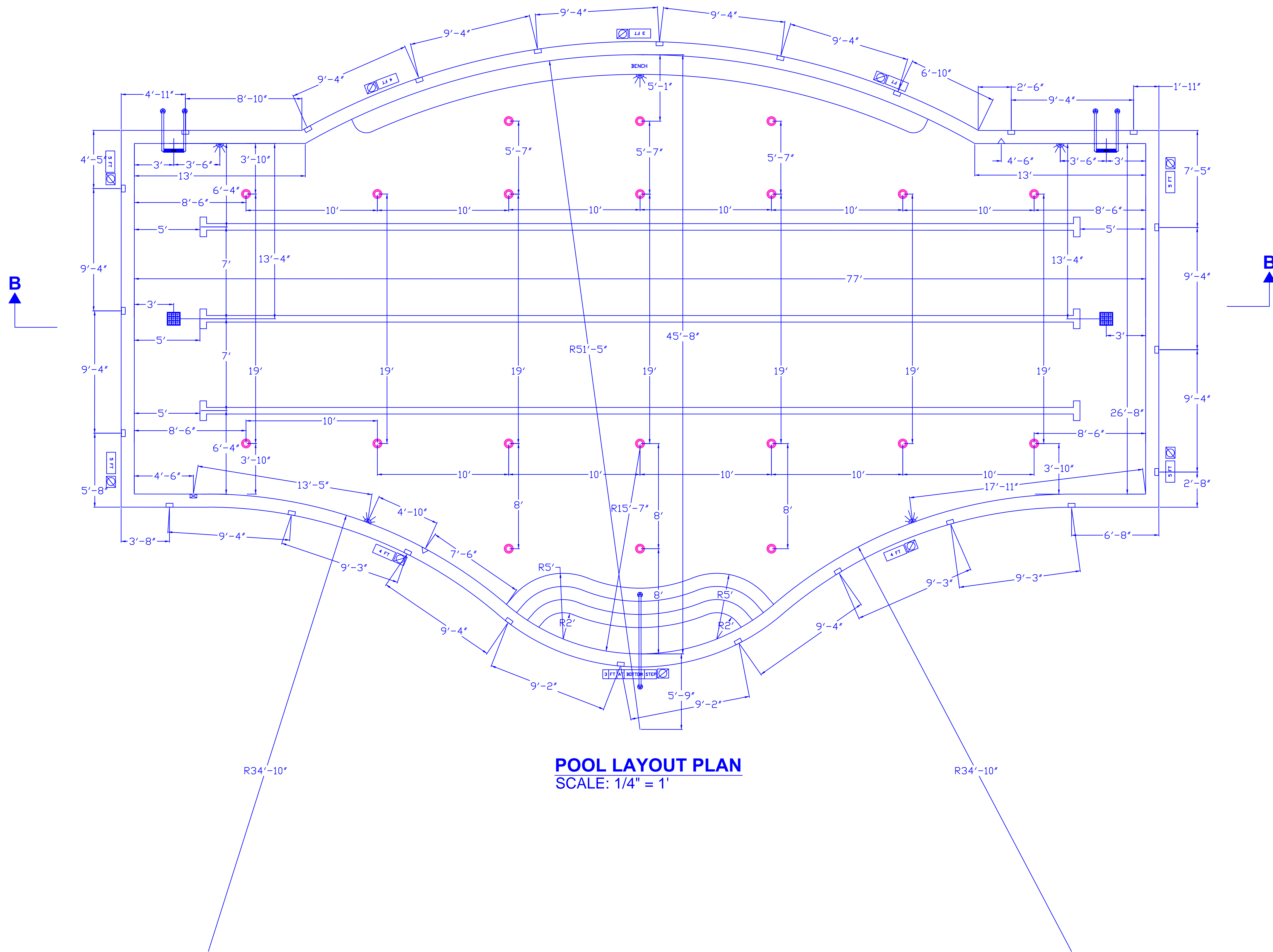
For: NNP - Bexley, LLC

Bexley Ranch Amenity
Zero Entry Pool and Adult Pool
Adult Pool Plumbing Plan

No.	Revision/Issue	Date

GJB Collins Engineering PA
Certificate of Authorization 27934

Samuel A. Liberatori PE 55740
1268 Rogers Street Phone: (727) 442-8443
Clearwater, FL 33756 Fax: (727) 442-6988
gjb_collins@verizon.net



POOL LAYOUT PLAN
SCALE: 1/4" = 1'

- LEGEND**
- (5) LIGHT(S)
 - (2) MAIN DRAIN
 - (20) FLOOR INLETS
 - (1) LEVEL
 - (24) GUTTERS
 - (2) VACUUM FITTINGS
 - DEPTH MARKER(S)
 - (10) "NO DIVING" MARKER(S)
 - (2) LADDERS(S)

SAL 5/4/15

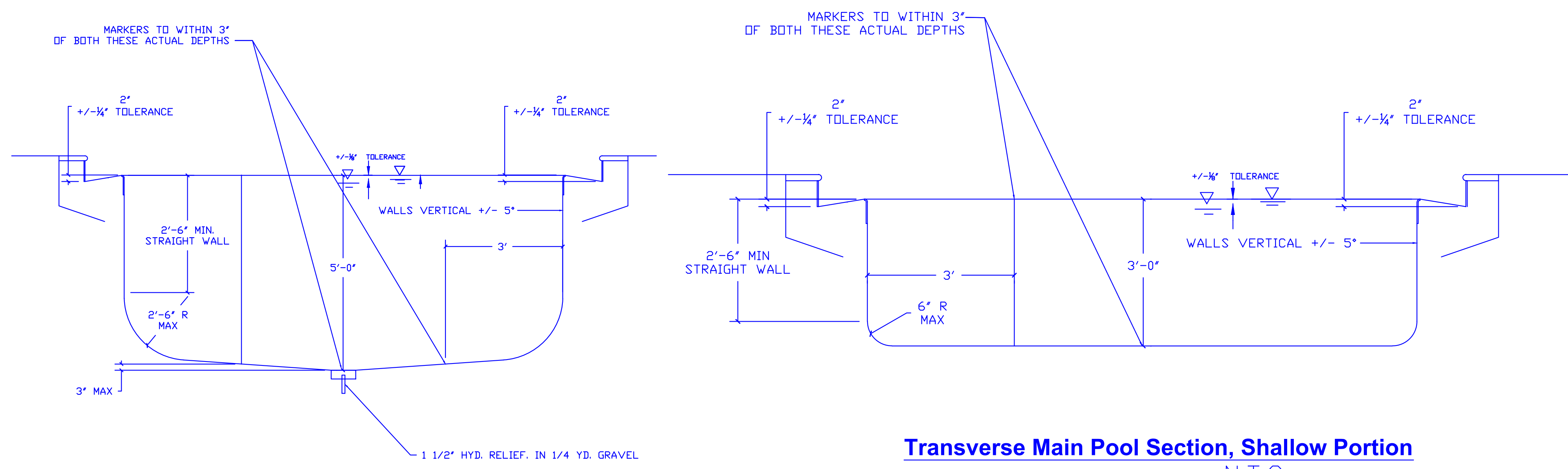
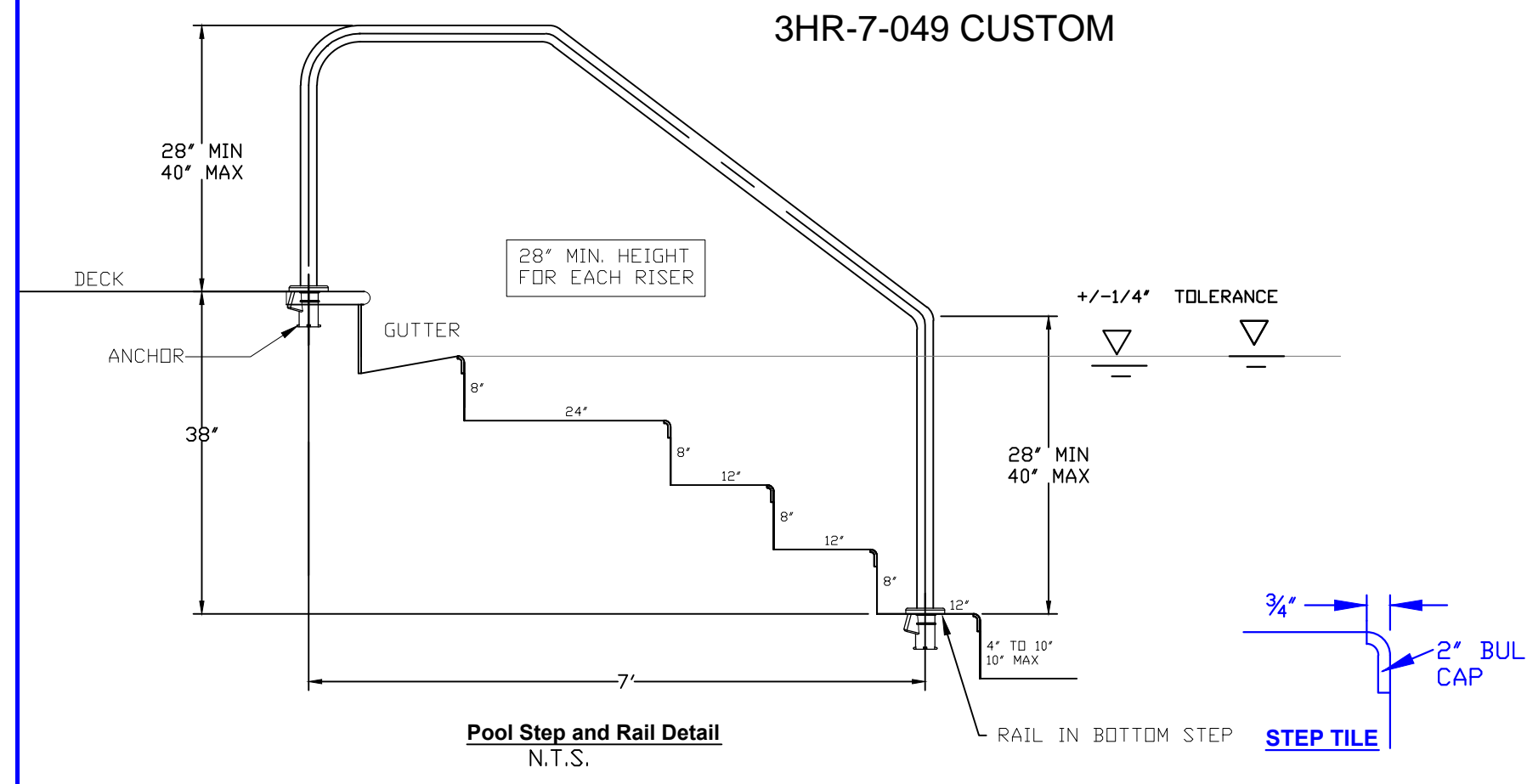
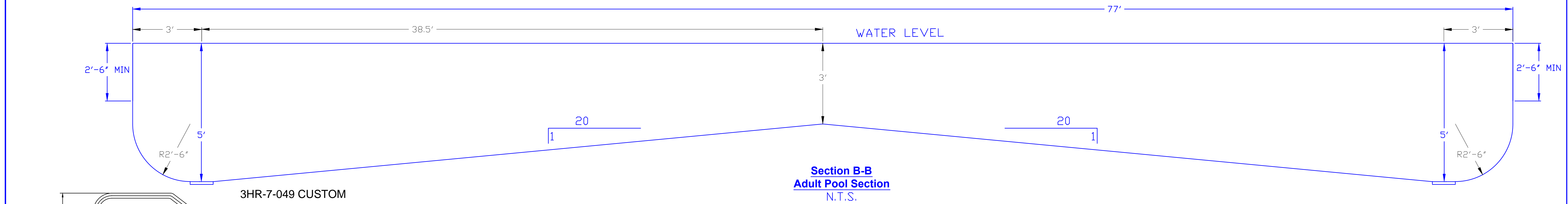
For: NNP - Bexley, LLC

Bexley Ranch Amenity
Zero Entry Pool and Adult Pool
Adult Pool Layout Plan

No.	Revision/Issue	Date

GB Collins Engineering PA
Certificate of Authorization 27934

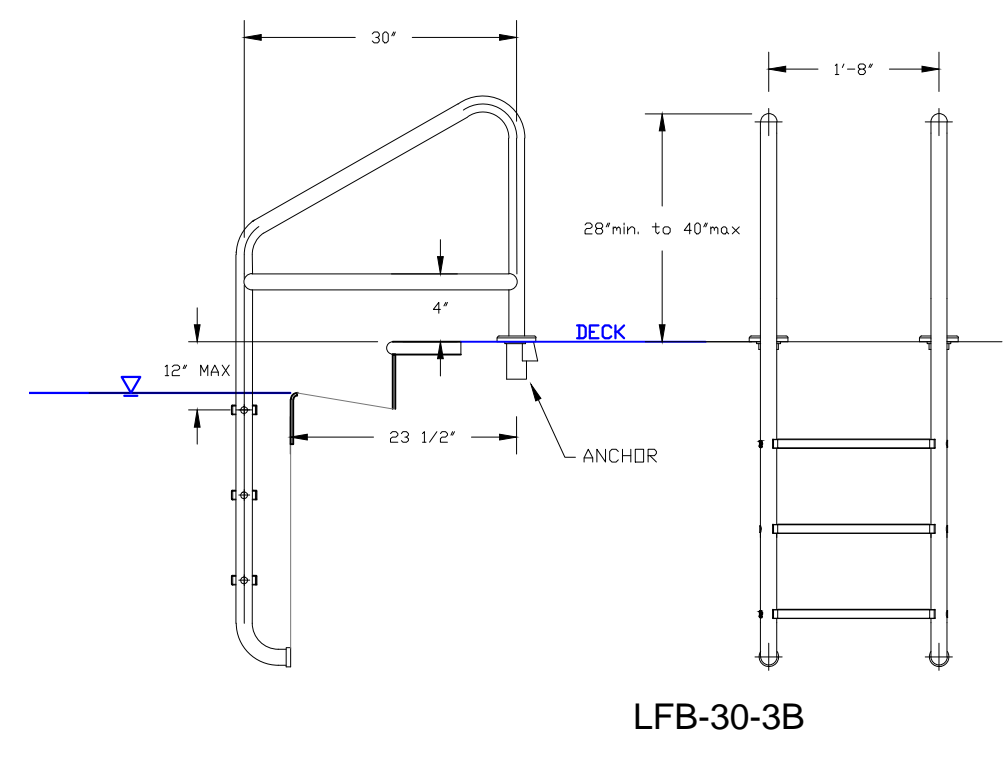
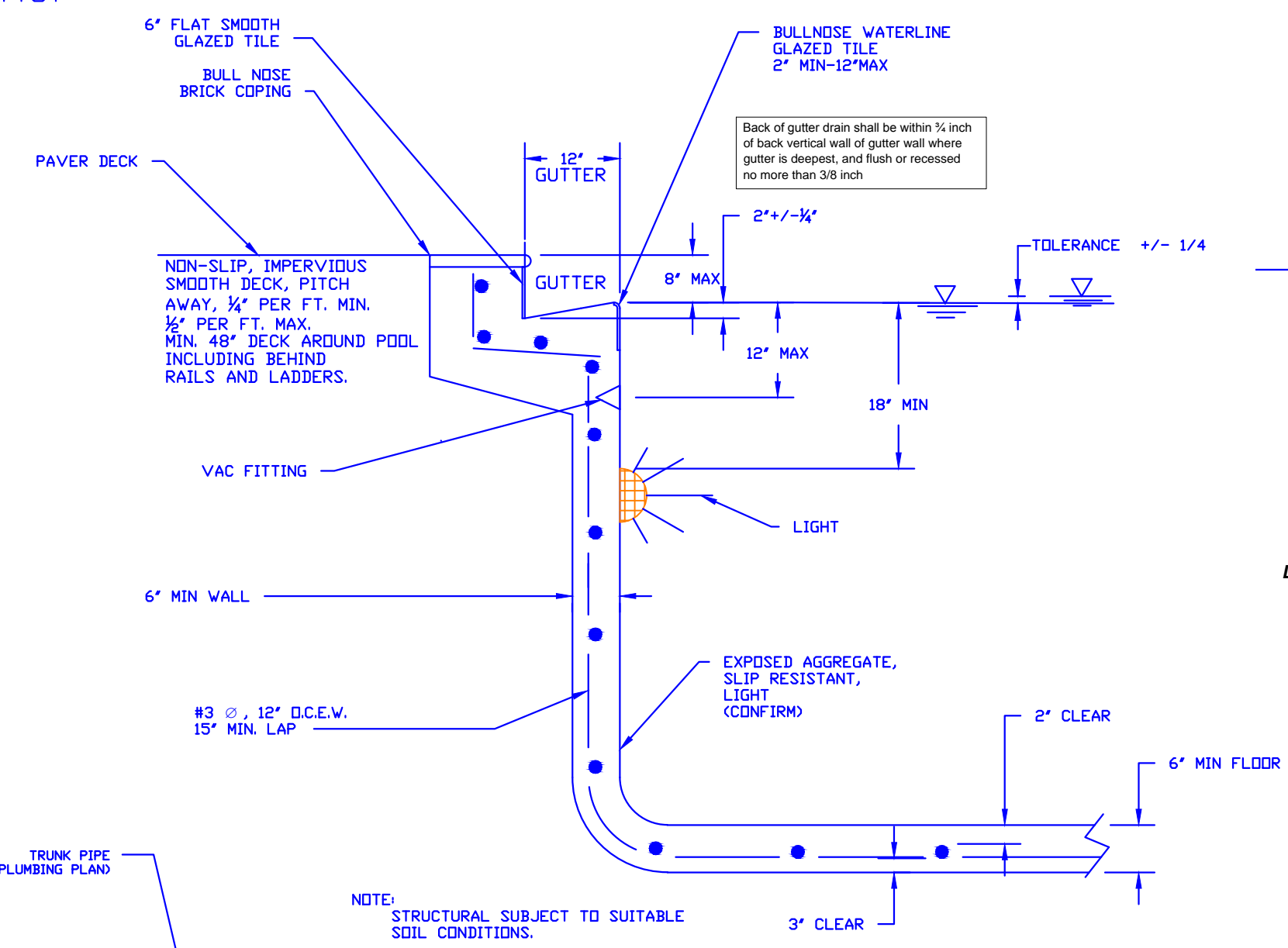
Samuel A. Liberatori PE 55740
1268 Rogers Street
Clearwater, FL 33756
Phone: (727) 442-8443
Fax: (727) 442-6988
gbcollins@verizon.net



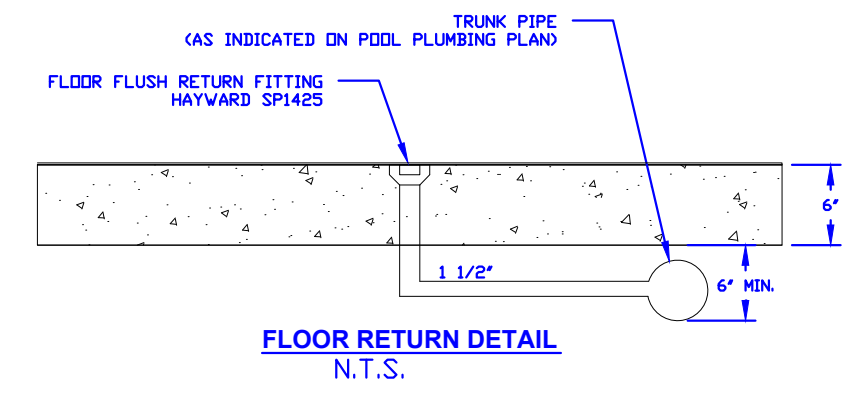
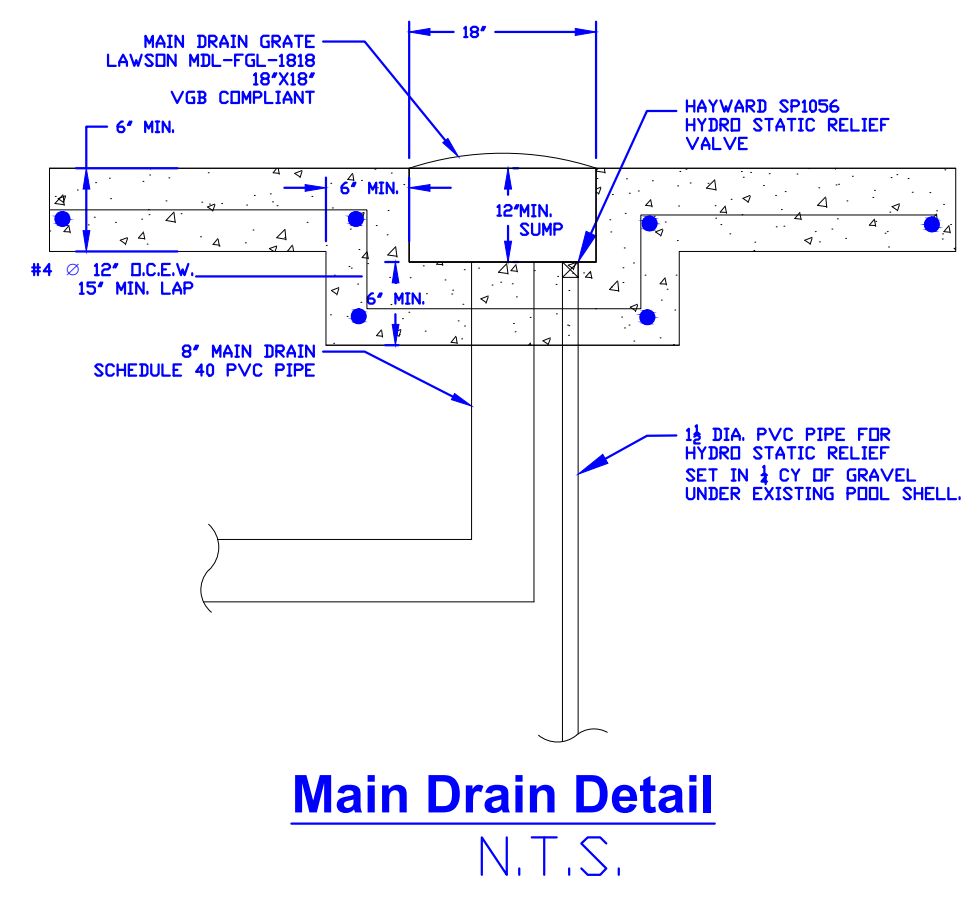
NOTE:
 1. ALL STEP TILE SHALL BE SLIP RESISTANT, MUNSELL, COLOR VALUE FROM 0 TO 4, (DARK) AND CONTINUOUS AROUND ENTIRE STEP.
 2. INTERMEDIATE STEPS SHALL BE UNIFORM IN WIDTH AND HEIGHT.
 3. ALL SLIP RESISTANT TILE SHALL HAVE A COEFFICIENT OF FRICTION OF AT LEAST 0.6 AS MEASURED USING ASTM C 1028.

Transverse Main Pool Section, Shallow Portion
N.T.S.

Transverse Pool Section, Deep Portion
N.T.S.



Ladder Custom: S.R. Smith Custom, Stainless Steel
 Tread: 6" Maximum from wall, 3" Minimum from wall.
 Cross Braced, Slip Resistant Treads, 28" minimum / 36" max above deck.
 Frame, 1.9" OD x .065", Type 304 Stainless Steel, with white rubber bumpers.
 Steps, acrylic plastic and have a slip resistant top surface.
 Escutcheon, (p/n EP-100F), stainless steel.
 Anchor Assembly: AS-100B (see spec sheet for SRS-908)



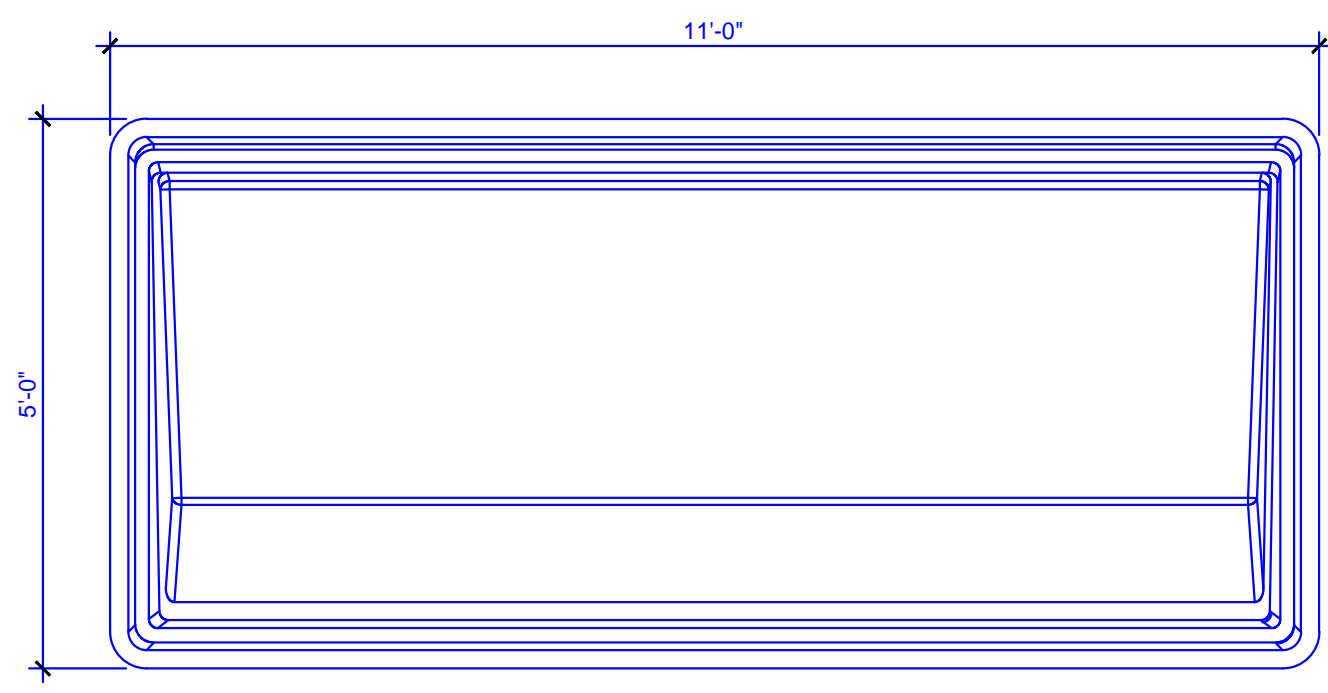
Gutter, Wall and Floor Detail
N.T.S.

Main Drain Detail
N.T.S.

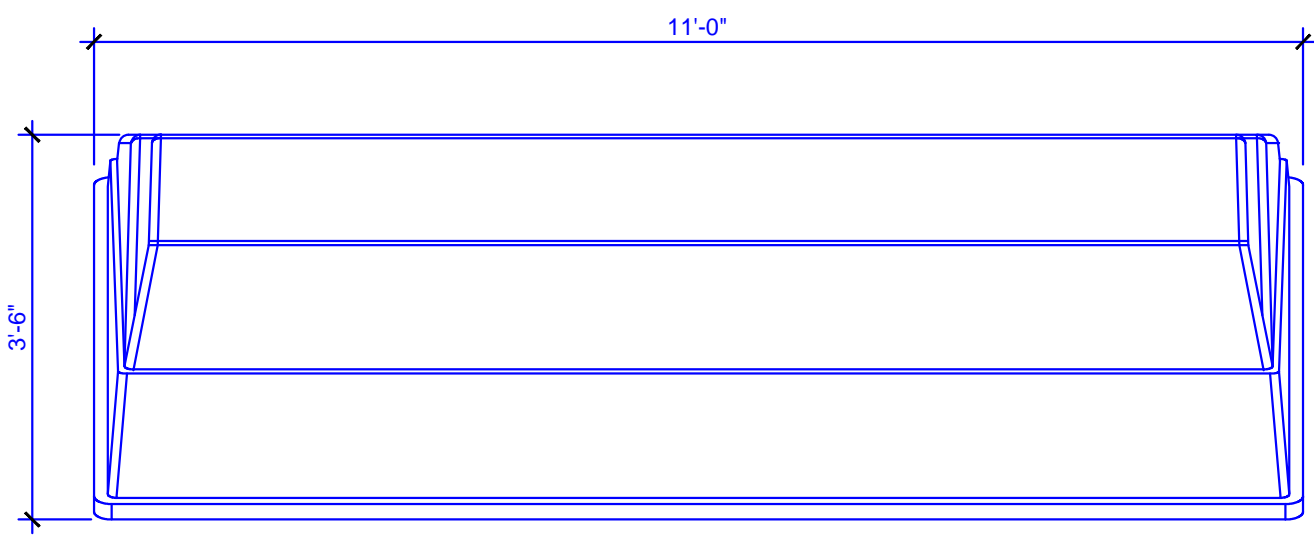
GB Collins Engineering PA
Certificate of Authorization 27934
 Samuel A. Liberatore PE 55740
 1208 Rogers Street Phone: (727) 442-8443
 Clearwater, FL 33756 Fax: (727) 442-6988
 gb_collins@verizon.net

For: **NNP - Bexley, LLC**
Bexley Ranch Amenity
Zero Entry Pool and Adult Pool
Adult Pool Profiles and Details

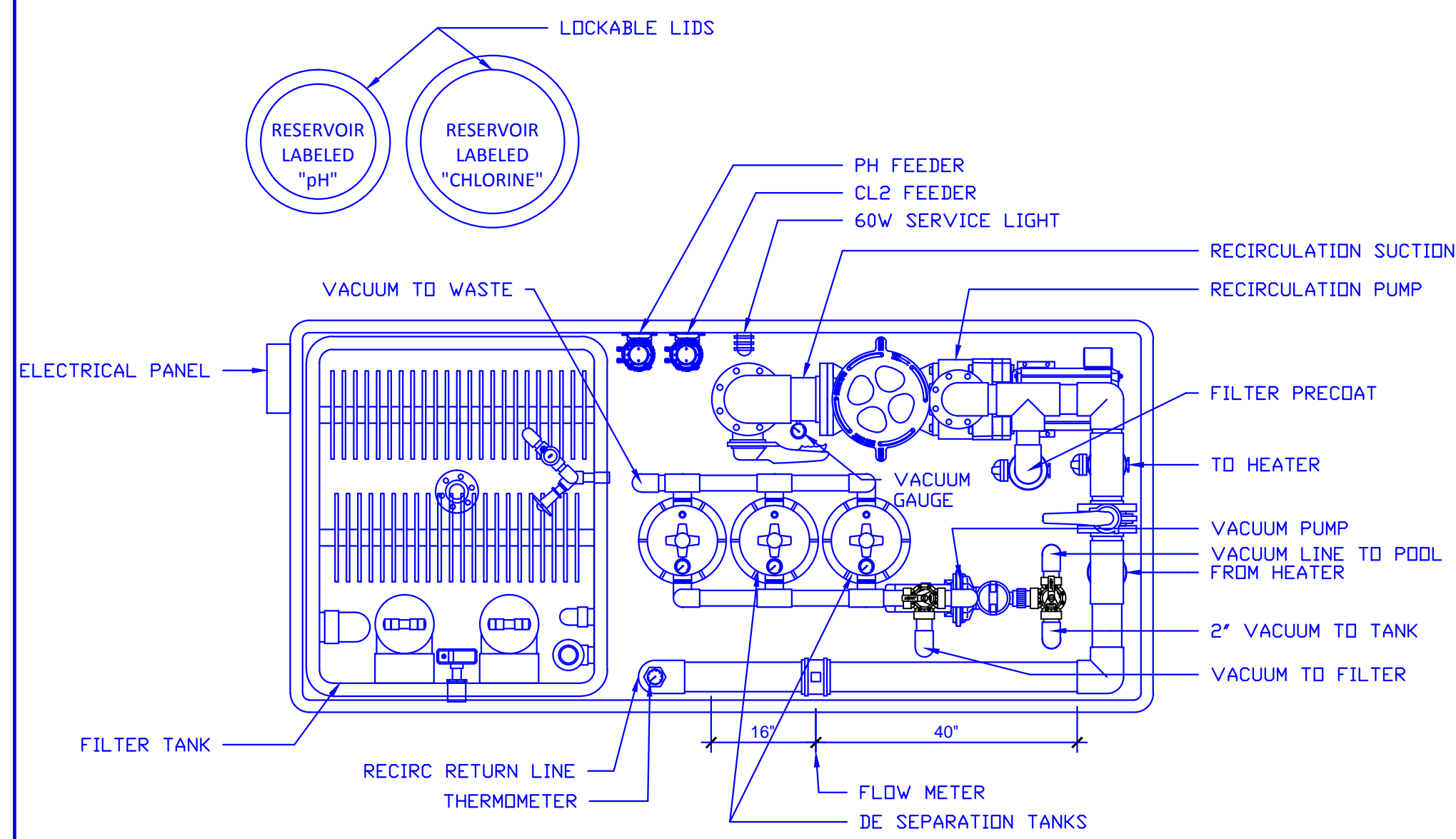
No.	Revision/Issue	Date



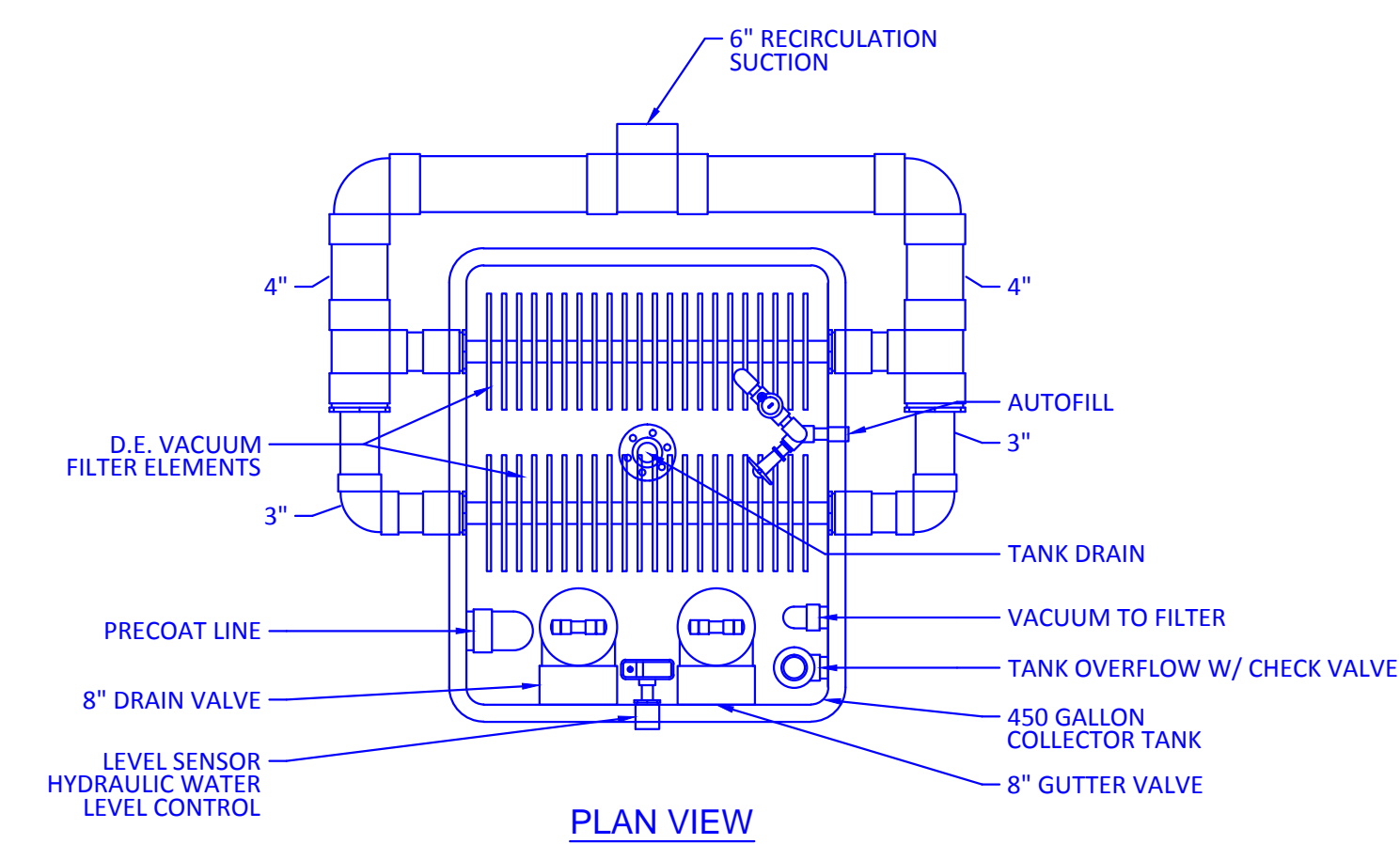
TOP VIEW



LID FRONT VIEW



EQUIPMENT PLAN
5'x11' CABINET - INTERNAL FILTER TANK

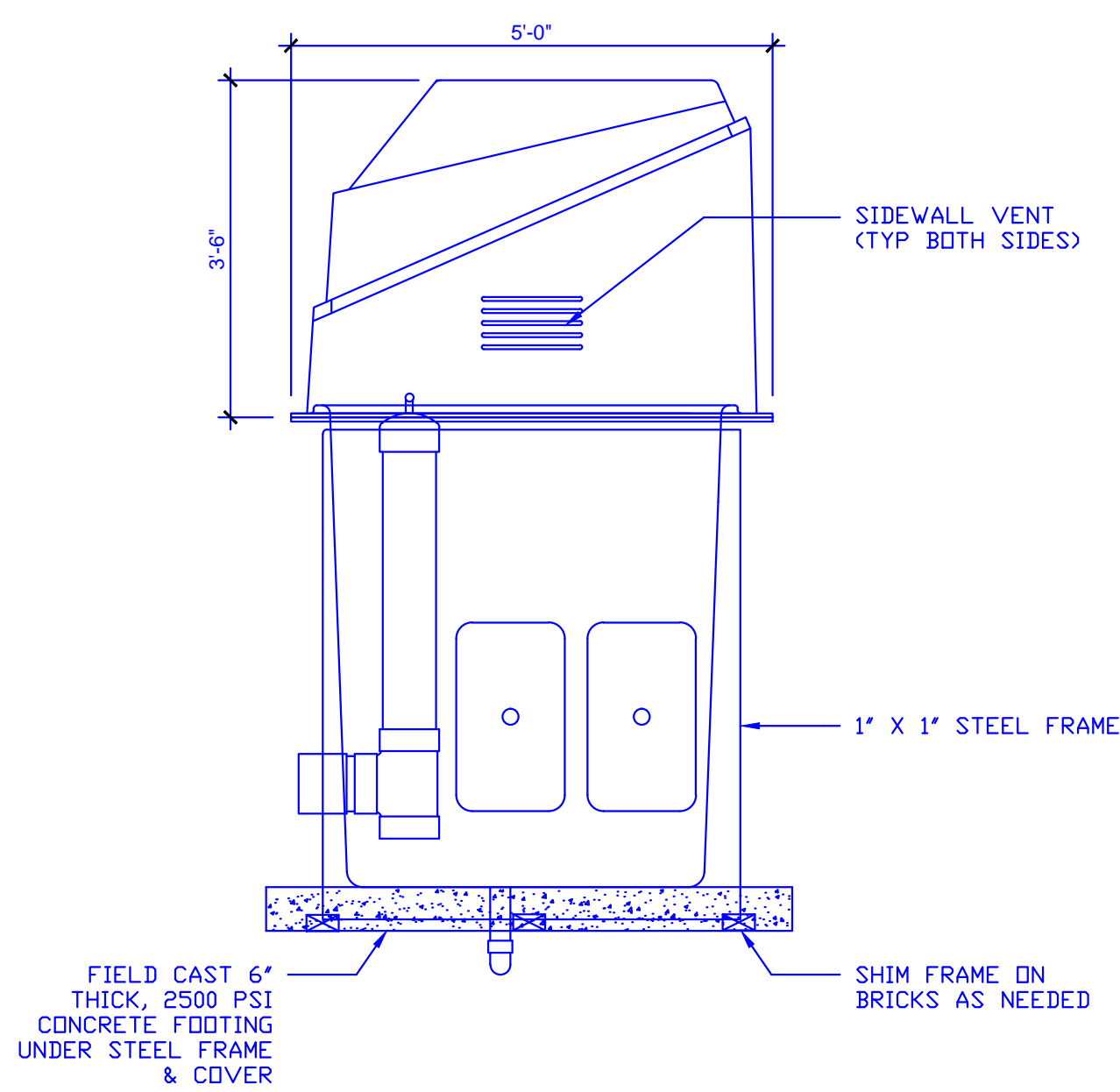
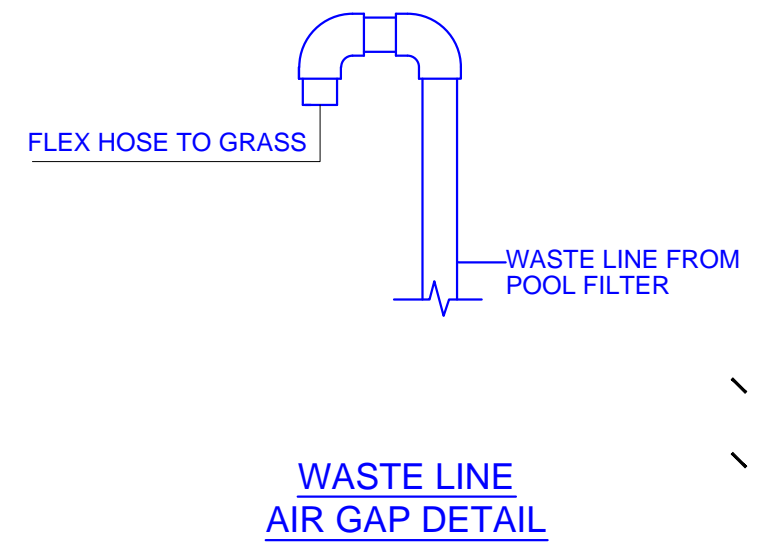
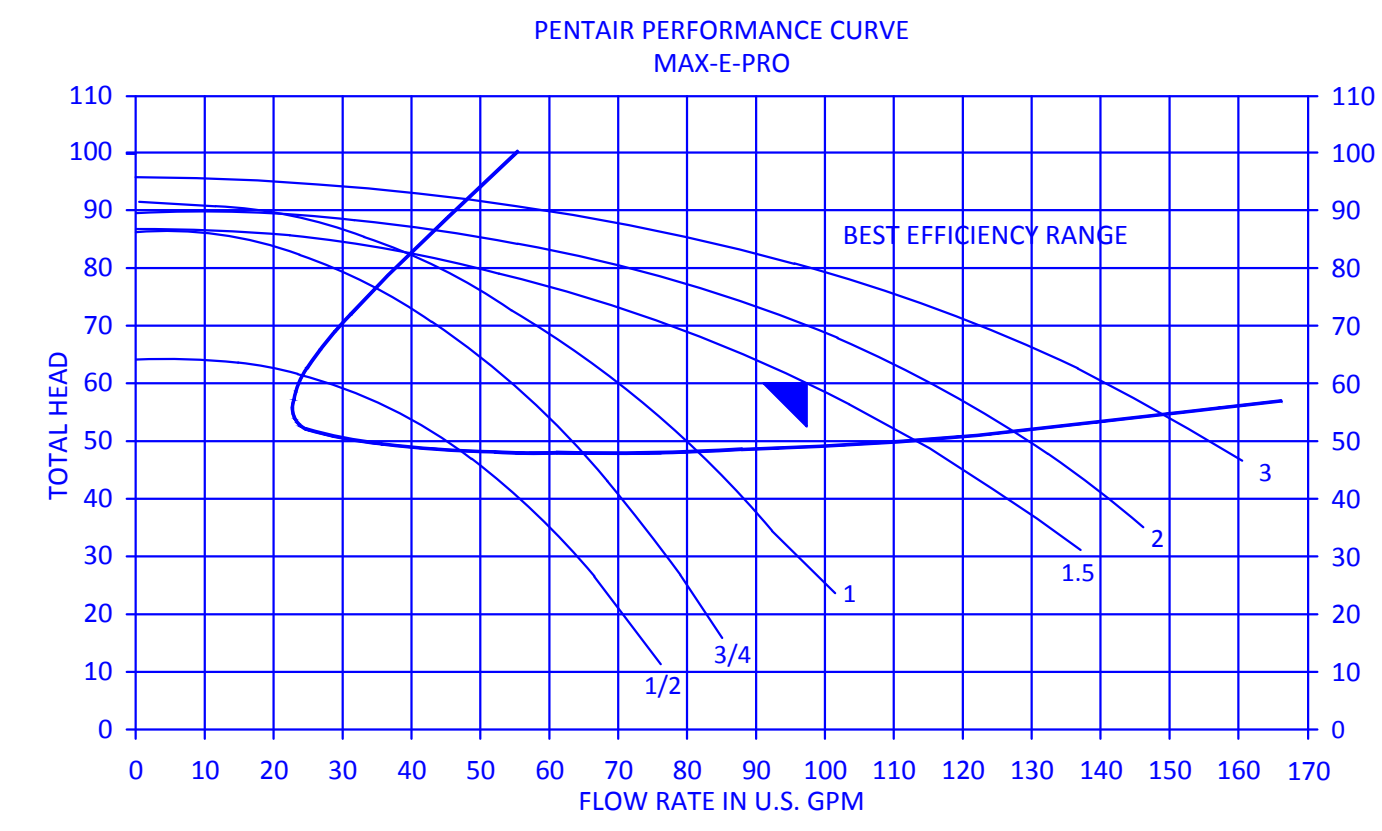
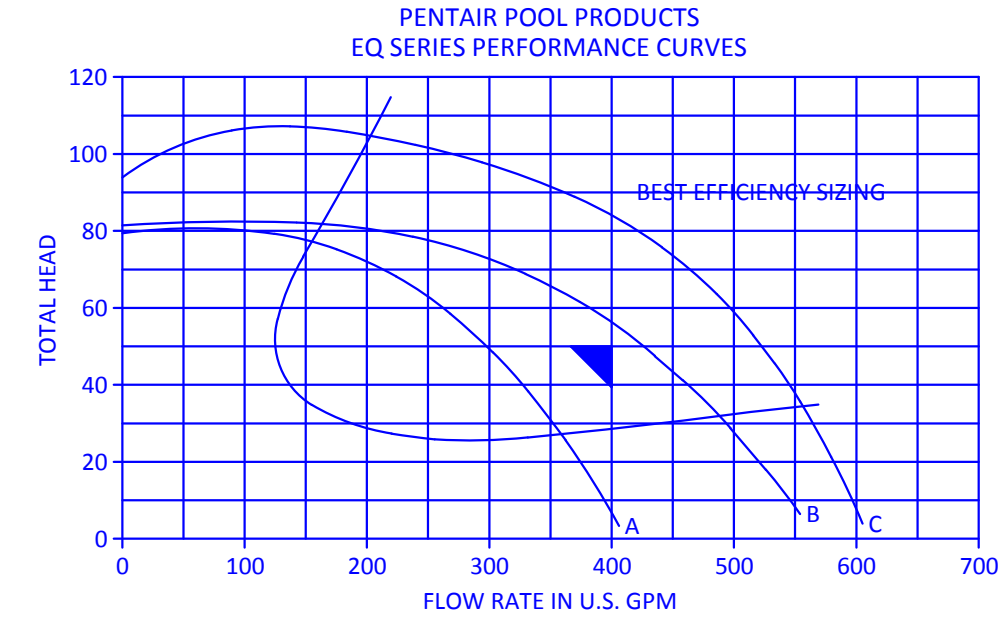


FILTER TANK ID

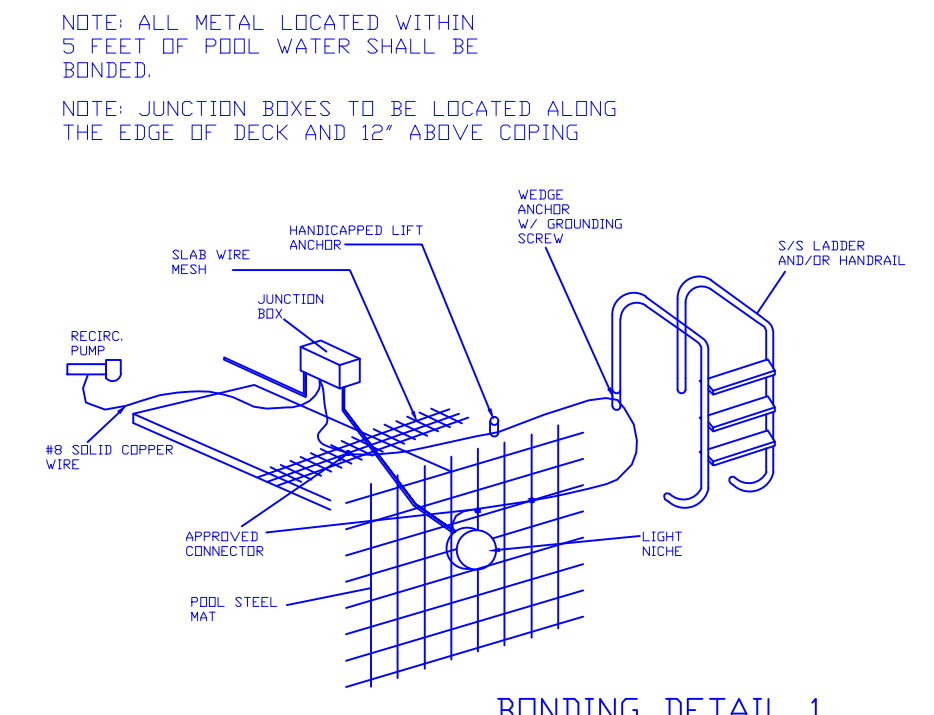
- NOTES:**
1. PLUMBING - ALL PIPE AND FITTINGS SHALL BE SCHEDULE 40 PVC PER ASTM D1785 AND N.S.F. APPROVED AND STAMPED FOR POTABLE WATER APPLICATIONS. JOINTS TO BE SOLVENT WELDED JOINTS PER ASTM D2855. ALL PLUMBING EQUIPMENT AND MATERIALS SHALL CONFORM TO THE FLORIDA BUILDING CODE, 2010 PLUMBING
 2. ELECTRICAL SYSTEM - ALL ELECTRICAL EQUIPMENT WIRING, INSTALLATION AND GROUNDING OF POOL COMPONENTS SHALL CONFORM WITH NATIONAL FIRE PROTECTION ASSOC. 70, NATIONAL ELECTRICAL CODE (N.E.C.), LATEST EDITION, AND ALL APPLICABLE LOCAL CODES AND SHALL BE TESTED AND APPROVED BY MANUFACTURE CHEMICAL PUMPS TO BE ELECTRICALLY INTERLOCKED WITH RECIRCULATION PUMP.
 3. EQUIPMENT - ALL PUMPS, FILTERS, AND DISINFECTION EQUIPMENT SHALL BE TESTED AND APPROVED BY MANUFACTURE USING THE NSF/ANSI STANDARD 50-LATEST AND LISTED APPROVED BY NSF.
 4. THE FILTER ROOM FLOOR IS SLIP-RESISTANT AND SLOPED TO FLOOR DRAINS
 5. ALL PLASTIC PIPE SUBJECT TO PERIOD OF PROLONGED SUNLIGHT EXPOSURE MUST BE COASTED TO PROTECT IT FROM ULTRAVIOLET LIGHT DEGRADATION.
 6. EACH WASTE LINE SHALL HAVE A UNIQUE AIR GAP. WASTE LINES FROM DIFFERENT SOURCES (E.G. POOL, SPA, OVERFLOW, SUMP PUMP) SHALL NOT BE TIED TOGETHER, BUT MAY DISCHARGE TO A COMMON SUMP OR RECEPTACLE AFTER THE AIR GAP.
 7. THE WASTE LINE MUST BE CONNECTED TO A WASTE DISPOSAL SYSTEM ACCORDING TO LOCAL OR STATE CODES.
 8. ALL COLLECTOR TANKS HAVE COVED INTERSECTIONS AND SLOPE TO THE TANK DRAIN.

AWDE400/45 EQUIPMENT LIST	
RECIRCULATION PUMP	PENTAIR EQ-750, 340032, 7.5 HP, SELF PRIMING W/ STRAINER, 400 GPM @ 50' TDH, 230V, 1φ, 30.4A
VACUUM PUMP	STA-RITE MAX-E-PRO W/ STRAINER, 1.5 HP P66F-207L, SELF PRIMING, 97 GPM @ 60' TDH, 230V, 1φ, 10.4A
FILTER TANK SIZE	AT450, 450 GALLON CAPACITY
DE FILTER ELEMENTS	(45) - 13.5" x 24" ELEMENTS, 4.5 SQ. FT EACH, 202.5 SQ. FT. TOTAL
(3) SEPARATOR TANKS	DE SEPARATION TANK, 80 SQ. FT. EACH, 240 SQ. FT. TOTAL
WATER LEVEL CONTROL	AQUATEK HYDRAULIC VALVE W/ MANUAL FILL VALVE & RESERVOIR
CHLORINE FEEDER	STENNER 85MS, 85 GPD CAPACITY, 110V
CHLORINE RESERVOIR TANK	MIN. 50 GALLON WITH LOCKABLE LID
pH FEEDER	STENNER 45MS, 50 GPD CAPACITY, 110V
pH RESERVOIR TANK	MIN. 30 GALLON WITH LOCKABLE LID
FLOWMETER	BLUE/WHITE F-30400P, 4", 125 TO 500 GPM RANGE
THERMOMETER	PRECISION INSTRUMENT CO B2B1-K WITH 1/2" NPT THERMOWELL 30 TO 240°F RANGE
VACUUM GAUGE	WIKA, 0-30 IN HG, LIQUID FILLED, 1/4" NPT, 2" FACE DIAMETER
PRESSURE GAUGE	WIKA, 0-60 PSI, LIQUID FILLED, 1/4" NPT, 2" FACE DIAMETER
CHEMISTRY CONTROLLER	

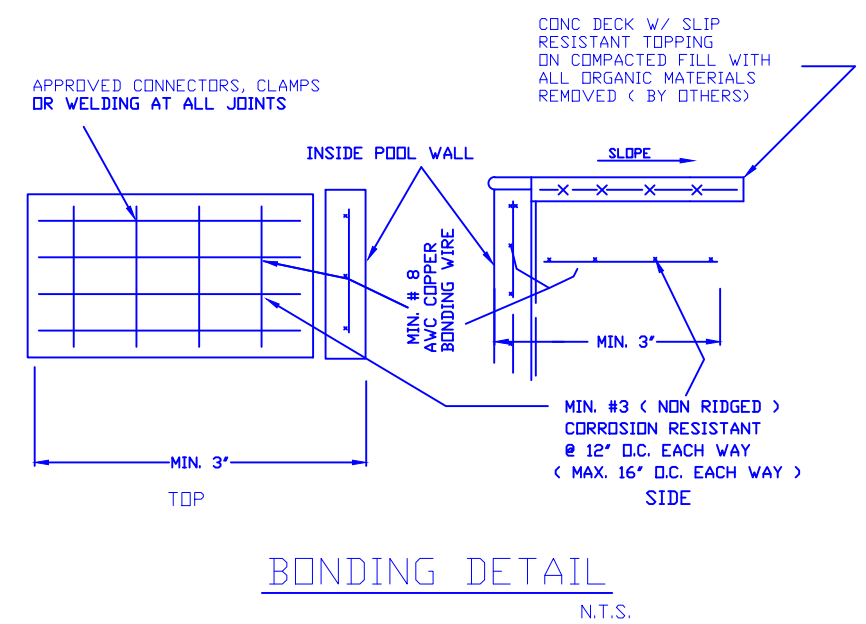
PIPE AND VALVES CHART	
LINE FUNCTION	SIZE
MAIN DRAIN	8"
GUTTER	8"
STATIC LINE	2"
RECIRCULATION PUMP SUCTION	6"
RECIRCULATION RETURN	4"
FILTER PRECOAT	3"
VACUUM LINE TO POOL	2"
TANK DRAIN	2"
VACUUM TO FILTER TANK	2"
VACUUM TO WASTE	2"
FRESH WATER FILL LINE	1"
OVERFLOW	2"
TO HEATER	3"
FROM HEATER	3"



SIDE ELEVATION

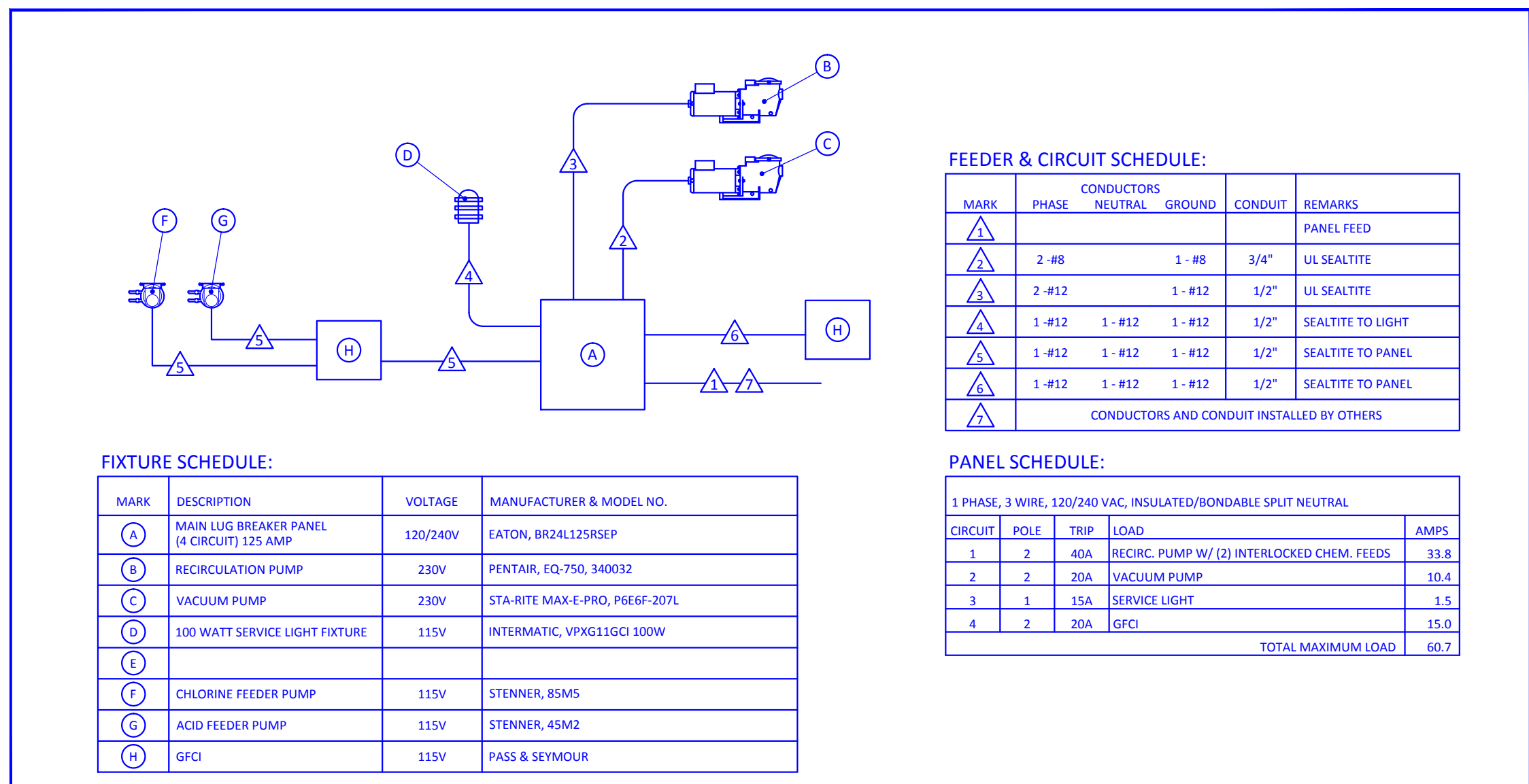


BONDING DETAIL 1
SCALE



BONDING DETAIL
N.T.S.

DECK BONDING GRID MUST COMPLY WITH N.E.C. CODE (ARTICLE 680.26 (C))



MARK	DESCRIPTION	VOLTAGE	MANUFACTURER & MODEL NO.
A	MAIN LUG BREAKER PANEL (4 CIRCUITS) 125 AMP	120/240V	EATON, BR24L125RSEP
B	RECIRCULATION PUMP	230V	PENTAIR, EQ-750, 340032
C	VACUUM PUMP	230V	STA-RITE MAX-E-PRO, P66F-207L
D	100 WATT SERVICE LIGHT FIXTURE	115V	INTERMATIC, VPXG11GCI 100W
E			
F	CHLORINE FEEDER PUMP	115V	STENNER, 85MS
G	ACID FEEDER PUMP	115V	STENNER, 45M2
H	GFCI	115V	PASS & SEYMOUR

FEEDER & CIRCUIT SCHEDULE:					
MARK	PHASE	CONDUCTORS NEUTRAL	GROUND	CONDUIT	REMARKS
A				3/4"	PANEL FEED
B	2-#8		1-#8	3/4"	UL SEALTITE
C	2-#12		1-#12	1/2"	UL SEALTITE
D	1-#12	1-#12	1-#12	1/2"	SEALTITE TO LIGHT
E	1-#12	1-#12	1-#12	1/2"	SEALTITE TO PANEL
F	1-#12	1-#12	1-#12	1/2"	SEALTITE TO PANEL
CONDUCTORS AND CONDUIT INSTALLED BY OTHERS					

PANEL SCHEDULE:				
1 PHASE, 3 WIRE, 120/240 VAC, INSULATED/BONDABLE SPLIT NEUTRAL				
CIRCUIT	POLE	TRIP	LOAD	AMPS
1	2	40A	RECIRC. PUMP W/ (2) INTERLOCKED CHEM. FEEDS	33.8
2	2	20A	VACUUM PUMP	10.4
3	1	15A	SERVICE LIGHT	1.5
4	2	20A	GFCI	15.0
TOTAL MAXIMUM LOAD				60.7

SAL 5/4/15

For: NNP - Bexley, LLC

Bexley Ranch Amenity
Zero Entry Pool and Adult Pool
Adult Pool Equipment Details

No.	Revision/Issue	Date

Sheet 12 of 13

AQUAWORX USA

10450 66th STREET
ST PETERSBURG, FL 33782
(888) 426-8511

SCALE: N.T.S. DRAWN BY: M.C.M. DRAWING NUMBER: ATFSP11DE-390E
DATE: 01.22.14 REVIEWED BY: S.D.H.

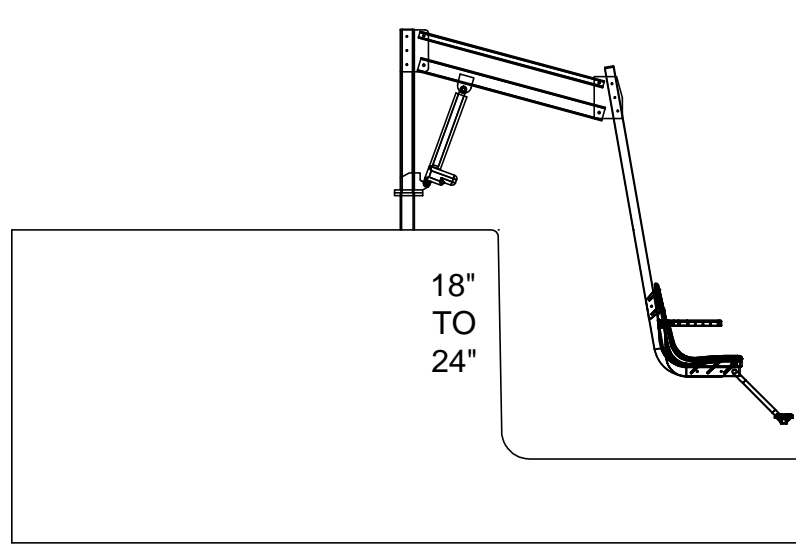
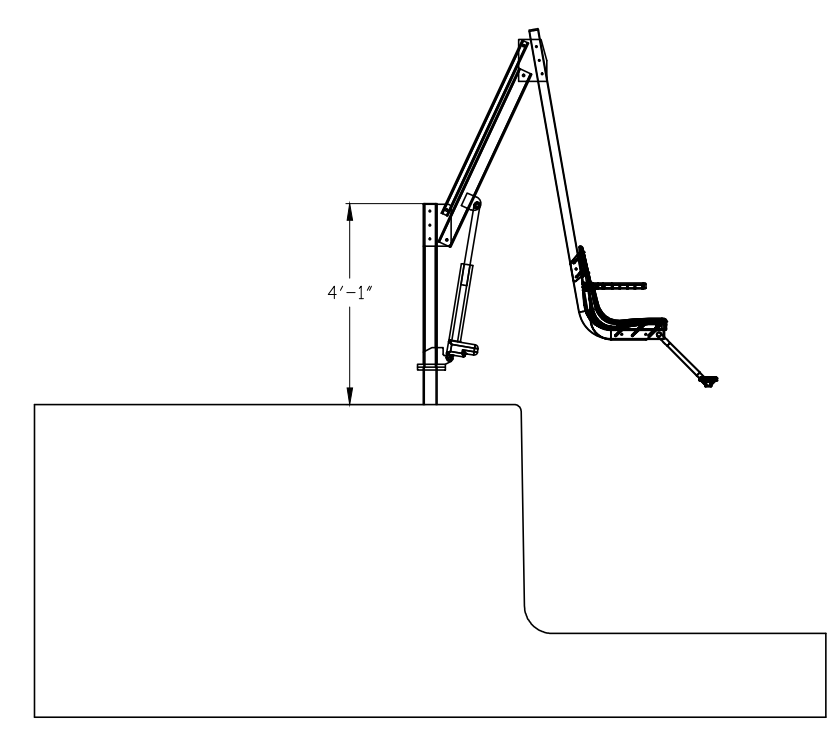
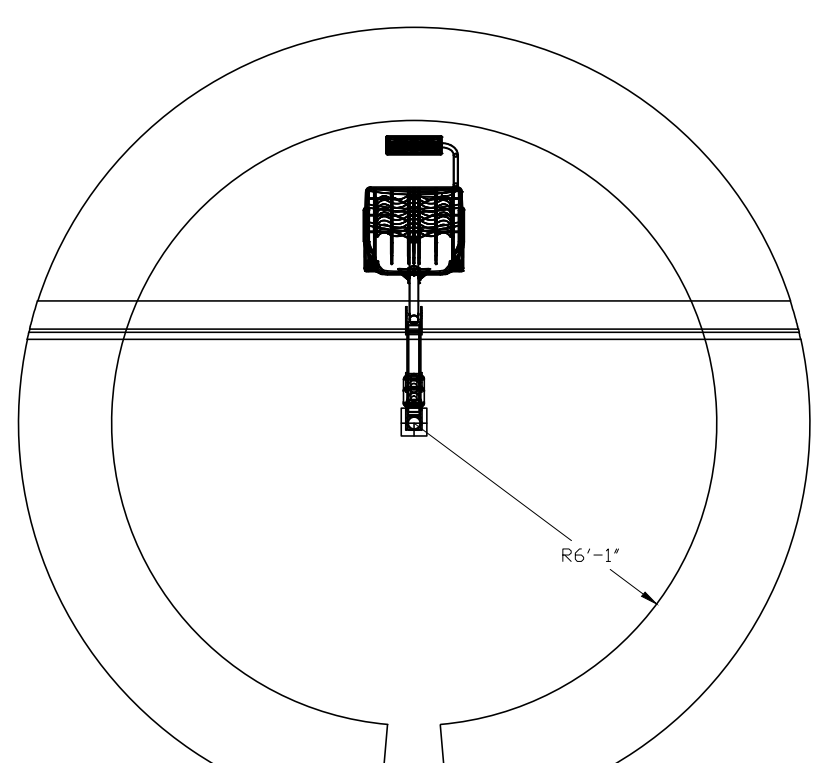
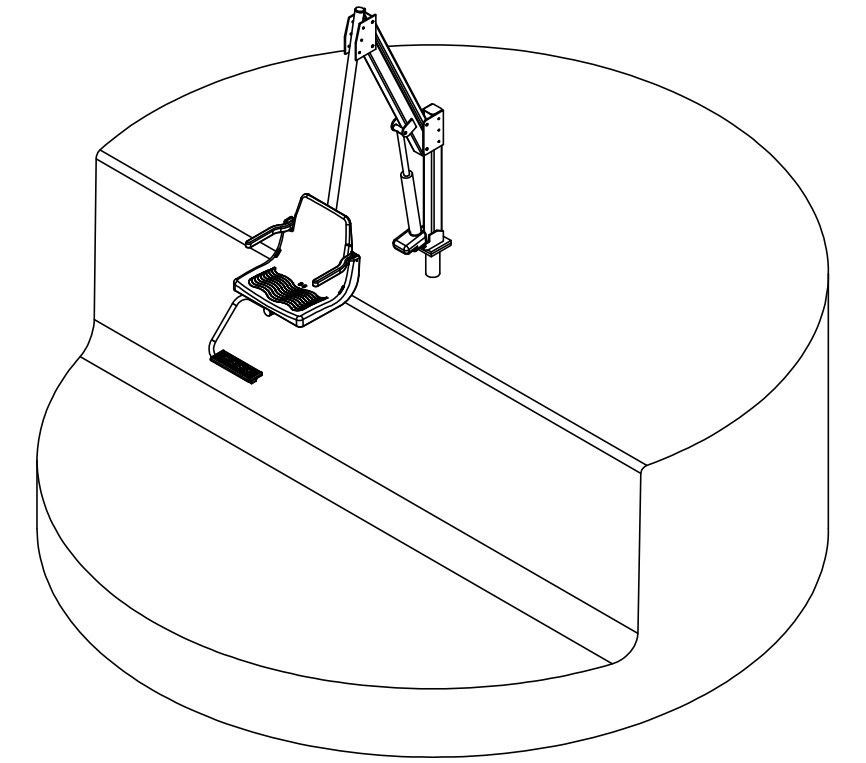
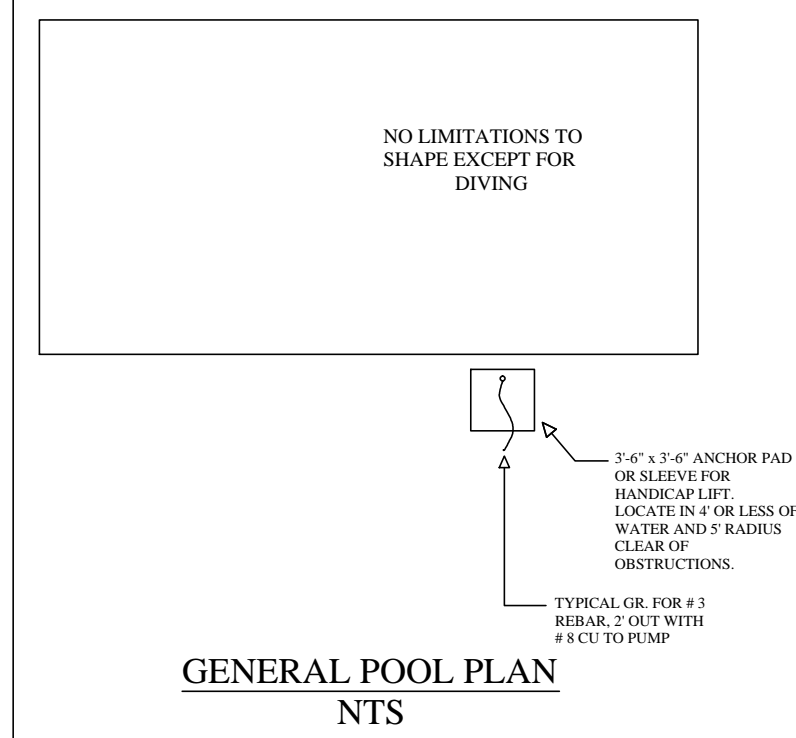
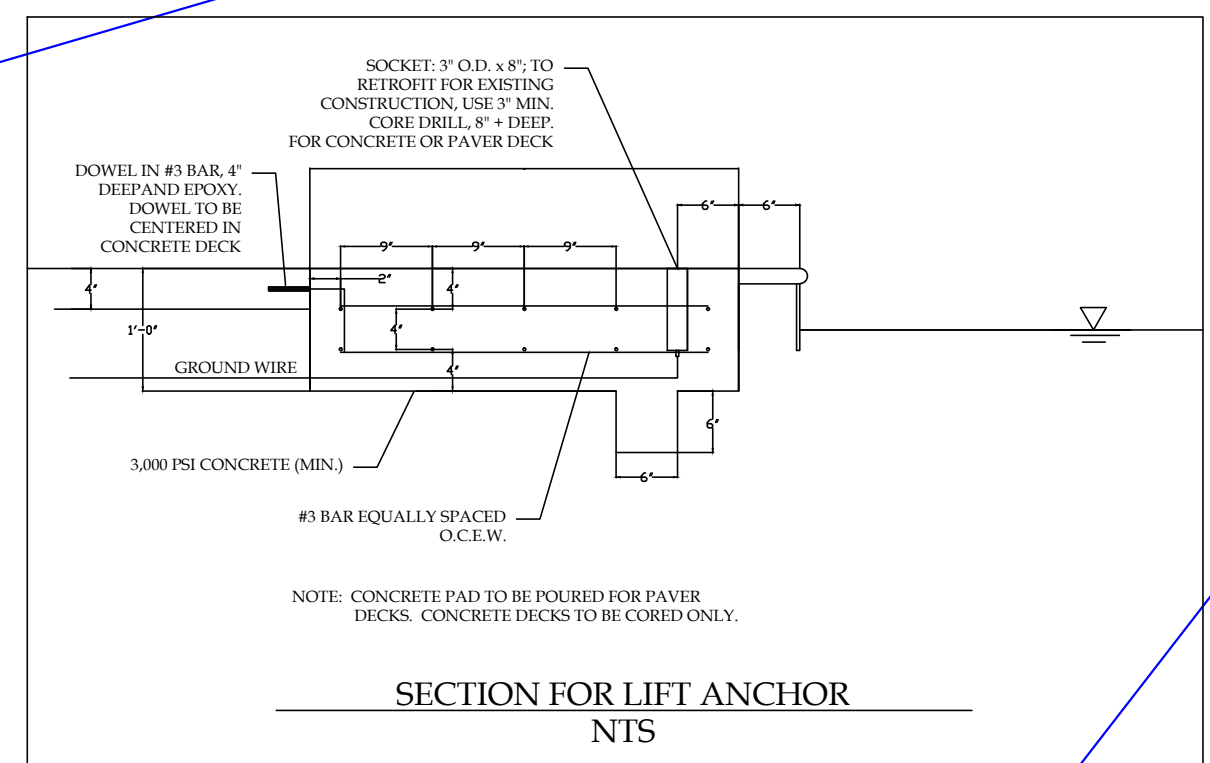
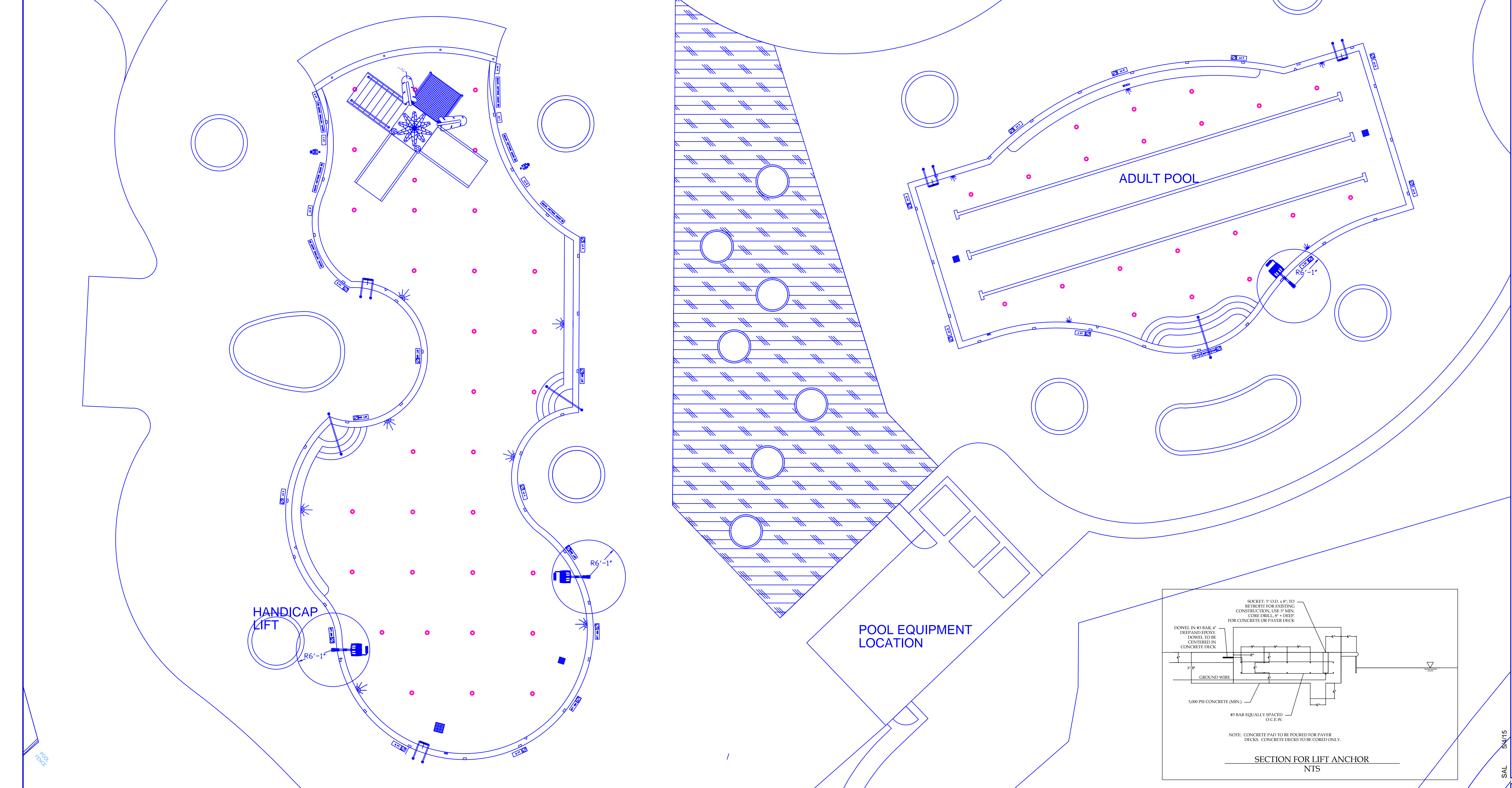
ATFSP8DE/39.0 ELECTRICAL
390 GPM D.E. FILTER SYSTEM

GB Collins Engineering PA
Certificate of Authorization 27934

Samuel G. Liberatori PE 55740
1208 Regan Street Phone: (727) 442-8443
Clearwater, FL 33756 Fax: (727) 442-6988
gb_collins@verizon.net

For: NNP - Bexley, LLC

Bexley Ranch Amenity
 Zero Entry Pool and Adult Pool
 ADA Lift Location and Details



GENERAL DESIGN REQUIREMENTS
 DESIGN, CONSTRUCTION AND WORKMANSHIP SHALL BE IN CONFORMITY WITH THE REQUIREMENTS OF ANS/NSPI 3, ANS/NSPI 4, ANS/NSPI 5, AND ANS/NSPI 6 AND ANS/APSP 7 BASED ON THE POOL TYPE.
ELECTRICAL REQUIREMENTS:
 -WIRING AND BONDING AND ALL ELECTRICAL TO COMPLY WITH CHAPTER 27, FLORIDA BUILDING CODE 2010 AND NEC 2008.
 -NO OUTLET OR OVERHEAD POWER WITHIN 10' IF WITHIN 15' PROTECT BY GFI, TRANSFORMER MIN. 10' FROM POOL, 8" ABOVE WATER, J BOX 4' FROM POOL, BRASS TO J BOX OR TRANSFORMER WHICH EVER IS FIRST EXCEPT WHERE PVC IS APPROVED.

FLORIDA BUILDING CODE R4101
 THE POOL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL DETAIL DESIGN REQUIREMENTS FOR EACH INDIVIDUAL POOL IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, AND ALL CONSTRUCTION SHALL MEET ALL APPLICABLE CODES INCLUDING PLUMBING, ELECTRICAL AND GAS. IT HAS BEEN CERTIFIED THAT THESE DESIGN REQUIREMENTS ARE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE R4101, 424.2-2010, ANS/NSPI 3, ANS/NSPI 4, ANS/NSPI 5, ANS/NSPI 6 AND ANS/APSP 7 AND ADA REQUIREMENTS

GLOBAL LIFT CORP - MODEL R-375
 1 (866) 712-0606

No.	Revision/Issue	Date