

CODE COMPLIANCE & REQUIREMENTS

- THE SWIMMING POOL IS CLASSIFIED AS A CLASS C SEMI-PUBLIC POOL PER LAC TITLE 51 PART XXIV.
- PER LAC TITLE 51 PART XXIV.301.B, POOL SHALL HAVE WHITE PLASTER FINISH.
- PER LAC TITLE 51 PART XXIV.305.A, ALL WALLS SHALL BE VERTICAL AND PLUMB, WITH 1 ° TOLERANCE FROM PLUMB ALLOWED.
- PER LAC TITLE 51 PART XXIV.307.A.2, SLOPES SHALL BE CONSISTENT, AND NOT TO EXCEED 1 FT IN 12 FT. (SEE PAGE PL-1.1 FOR SLOPE DIRECTIONS, AND INDICATED MIN/MAXIMUM SLOPES FOR POOL AND DECK)
- PER LAC TITLE 51 PART XXIV.311.A, THE MINIMUM WATER DEPTH FOR THE POOL CAN BE IDENTIFIED AS 4'-0" PER PLAN SHEETS PL-1.1 AND PL-1.2. ALL WATER DEPTHS FOR THE POOL ARE SHOWN ON PLAN SHEETS PL-1.1 AND PL-1.2.
- PER LAC TITLE 51 PART XXIV.311.C, THE SHALLOW END AND DEEP END OF THE POOL IS IDENTIFIED WITH A 4" WIDE BAND OF 2X2 CONTRASTING DARK COLORED TILE, AND ROPE AND FLOAT LINE ATTACHED TO THE POOL WALLS WITH CUP ANCHORS.
- PER LAC TITLE 51 XXIV.315.A, THE POOL SYSTEM IS DESIGNED AT A 4 HOUR TURNOVER RUNNING 24 HOURS A DAY, RENDERING A COMPLETE SUPPLY OF CLEAN WATER 6 TIMES A DAY, SATISFYING THE CODE.
- PER LAC TITLE 51 XXIV.319.A, THE MAXIMUM BATHER LOAD IS 20 SQ. FT. OF WATER SURFACE AREA PER BATHER.
- PER LAC TITLE 51 XXIV. 323, ALL SURROUNDING POOL DECK (INCLUDING COPING IS TO MAINTAIN A MINIMUM OF 4 FT DEPTH OF POOL DECK. ALL COPING, AND FINISHED SURFACE OF POOL DECK SHALL RECEIVE A SLIP RESISTANT FINISH.
- PER LAC TITLE 51 XXIV. 323.A, POOL DECK IS CONSTRUCTED PER ACI STANDARD 302.1R-80.
- PER LAC TITLE 51 XXIV.325, ONE LADDER AND ONE HANDRAIL PROVIDE THE MINIMUM OF TWO MEANS OF ENTRY/EXIT, WITH A DISTANCE OF AT LEAST 75 LINEAR FEET SPACING OF POOL WALL.
- PER LAC TITLE 51 XXIV.327, ALL STEP TREAD DEPTHS ARE 12 INCHES, AND ALL RISERS ARE 10.25 INCHES PER SHEET PL-1.3 ON DETAIL 05, MEETING THE MINIMUM 10 INCH TREAD DEPTH, AND MEETING THE UNIFORM HEIGHT OF 12 INCHES MAXIMUM RISER HEIGHT.
- PER LAC TITLE 51 XXIV.329, POOL LADDER IS IN COMPLINACE AS SHOWN ON ALL PLAN VIEWS WITHIN PLAN SET, AND AS DETAILED ON PLAN SHEET, PL-1.3 ON DETAIL 06.
- PER LAC TITLE 51 XXIV.503.A, THE WATER VELOCITY FOR SUCTION PIPING, DOES NOT EXCEED 6 FEET PER SECOND, AND THE WATER VELOCITY FOR RETURN PIPING DOES NOT EXCEED 10 FEET PER SECOND. AS SHOWN ON PLAN SHEET PL-1.2, IN THE PIPE IDENTIFICATION LEGEND.
- PER LAC TITLE 51 XXIV.503.C.1, AN IMPACT FLOW METER IS REQUIRED ON TO MEASURE THE RATE OF FLOW THROUGH THE FILTER SYSTEM. SEE PLAN SHEET POOL SYSTEM SCHEMATIC, AND POOL EQUIPMENT LEGEND FOR LISTED FLOW METER REQUIRED.
- PER LAC TITLE 51 XXIV.511.A, ALL RETURN INLETS IN THE POOL ARE ¾" ADJUSTABLE EYEBALL INLETS, AS NOTED THROUGHOUT THE PLAN SET.
- PER LAC TITLE 51 XXIV.511.C, TWO MAIN DRAINS ARE TO BE PROVIDED AS SHOWN THROUGH OUT THE PLANS, AND IDENTIFIED ON PLAN SHEET PL-1.5. ALL MAIN DRAIN GRATES ARE TO BE WHITE COLORED, AND TO BE PROVIDED WITH A CONTRASTING COLORED FRAME SO AS TO EASILY BE IDENTIFIED, AND IN COMPLIANCE WITH LAC TITLE 51 XXIV.511.C.3
- PER LAC TITLE 51 XXIV.515.B, ONE SKIMMER FOR THE POOL SHALL BE PROVIDED FOR EVERY 500 SQUARE FOOT OF WATER SURFACE AREA. FOR THIS POOL DESIGN, A TOTAL WATER SURFACE AREA OF 796 SQUARE FEET IS ADDRESSED WITH THE PROVISION OF 2 SURFACE SKIMMERS.
- PER LAC TITLE 51 XXIV.701, DEPTH MARKERS ARE PROVIDED AS SLIP RESISTING, ON BOTH THE DECK, AND IN CORRESPONDING LOCATIONS WITHIN THE WATERLINE TILE BAND, AND ARE PLACED AND SPACED IN FULL COMPLIANCE WITH THE CODE REQUIREMENTS OF THE CURRENT CODE SPECIFICATION REFERENCED.
- PER LAC TITLE 51 XXIV, LIFE SAVING EQUIPMENT FOR THIS POOL SHALL BE PROVIDED, CONSISTING OF THE FOLLOWING; 12 STRONG POLE WITH BODY HOOK, ¼" DIAMETER MINIMUM THROWING ROPE AT 65'-0" MINIMUM (1.5 TIMES THE MAXIMUM WIDTH OF THIS POOL), AND TELEPHONE WITH POSTED NAMES AND NUMBERS OF EMERGENCY CONTACTS. (OWNER SHALL PROVIDE).
- PER LAC TITLE 51 XXIV, FRESH WATER SUPPLY IS IN COMPLIANCE AS DETAILED ON PLAN SHEET PL-1.3, DETAIL 03.
- PER LAC TITLE 51 XXIV, ALL ELECTRICAL REQUIREMENTS OF THE LATEST NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION AGENCY SHALL BE COMPLIED WITH.
- PER LAC TITLE 51 XXIV, POOL WILL EXCEED MINIMUM REQUIREMENT FOR UNDERWATER LIGHTING, ALLOWING THE OPTION OF POOL OPERATIONS AT NIGHT. SHOULD OWNER DECIDE TO OPERATE POOL AT NIGHT,

EXISTING POOL DECK LIGHTING SHALL NEED TO PROVIDE THE MINIMUM .6 WATTS PER SQUARE FOOT OF DECK AREA.

- EXISTING POOL EQUIPMENT ROOM IS TO BE ADEQUATELY VENTILATED AND IN FULL COMPLIANCE WITH LAC TITLE 51 XXIV.
- THIS CLASS C POOL IS TO SERVE THOSE RESIDENTS WHO LIVE IN THE APARTMENT COMPLEXES WHICH SURROUND THE POOL ONLY, AND THEREFORE THIS POOL REQUIRES NO BATHROOM OR SHOWER FACILITIES.
- PER LAC TITLE 51 XXIV, POOL RULES AND REGULATIONS SHALL BE POSTED IN A CONSPICUOUS PLACE TO INFORM POOL PATRONS.
- PER LAC TITLE 51 XXIV.733.A, POLE HOOK, ROPES WITH BUOYS, AND LIFESAVING EQUIPMENT ARE TO BE PROVIDED AND BE READILY ACCESSIBLE AND VISIBLE, ALONG WITH A FIRST AID KIT.
- PER LAC TITLE 51 XXIV.901.A, THE POOL SHALL HAVE A CHLORINE BROMINE FEEDER THAT IS NSF COMPLIANT. THE CHEMICAL FEEDER SAMPLES WATER BEFORE THE FILTER, AND RETURN CHEMICALLY TREATED WATER AFTER THE FILTER ON THE RETURN PIPING.
- PER LAC TITLE 51 XXIV.901.C, A TEST KIT IS TO BE PROVIDED FOR THE POOL WHICH TESTS Ph, CHLORINE OR BROMIDE RECIDUALS, CYANURIC ACID (IF USED), TOTAL ALKALINITY, AND CALCIUM HARDNESS. THE FOLLOWING LEVEL REQUIREMENTS ARE TO BE MET FOR THE POOL WATER...

CHLORINE .7 - 1.0 ppm
Ph 7.2 - 7.8

- PER THE LAC TITLE 51 XXIV CODE, AND THE LETTER OF INTENT/CLARIFICATION FOR SUNNING OR TANNING SHELVES FOR PUBLIC POOLS.....

- THE TANNING SHELF IS SHOWN TO BE 6" TO 7 " IN DEPTH, WITH A
- TOTAL DISTANCE NOT GREATER THAN 12" FROM TOP OF DECK TO
- ANY POINT ON THE SURFACE OF THE SUNNING OR TANNING SHELF
- SHALL BE A MAXIMUM OF 12".
- TANNING SHELF IS RECESSED MORE THAN THE MINIMUM 36" FROM
- NORMAL LOCATION OF POOL WALL.
- THE TANNING SHELF MEETS A WATER DEPTH GREATER THAN THE
- MINIMUM 3 FT REQUIRED.
- THE EDGE OF THE TANNING SHELF SHALL HAVE A 1 INCH RADIUS
- EDGE, WITH W SINGLE BAND OF 2X2 DARK CONTRASTING COLORED
- TILE ON THE TOP AND EDGE OF THE SHELF.
- RETURN INLETS ARE PROVIDED FOR THE TANNING SHELF TO
- ACCOMMODATE UP TO 100 SQ. FT. OF WATER SURFACE AREA EACH.
- TANNING SHELF SHALL HAVE A SLOPE OF ¼" MINIMUM PER FOOT.
- THE TANNING SHELF IS CONSTRUCTED AS PART OF INGRESS WITH
- STEPS LEADING INTO THE POOL, AND IS O HAVE A HAND RAIL THAT
- IS IN FULL COMPLIANCE WITH LAC TITLE 51 PART XXIV.

POOL CALCULATIONS

POOL RETURN HEAD LOSS CALCULATIONS

1.0" PIPE = $\frac{98}{100}$ = .98 FT.
1.5" PIPE = $\frac{44}{100}$ = .44 FT.
2.0" PIPE = $\frac{40}{100}$ = .40 FT.
2.5" PIPE = $\frac{20}{100}$ = .20 FT.
3.0" PIPE = $\frac{44}{100}$ = .44 FT.

TOTAL = 2.46 FT.

1.0" FITTINGS = $\frac{4.2}{100}$ = .042 FT.
1.5" FITTINGS = $\frac{6.6}{100}$ = .066 FT.
2.0" FITTINGS = $\frac{13.2}{100}$ = .132 FT.
2.5" FITTINGS = $\frac{13}{100}$ = .13 FT.
3.0" FITTINGS = $\frac{27.2}{100}$ = .272 FT.

TOTAL = .642 FT.

BALL VALVES = 7 FT.
CHECK VALVES = 5 FT.
DIRECTIONAL EYEBALL INLET FITTING = 2.66 * 7 EACH = 18.62 FT.
ELEVATION CHANGE = 2 FT.

TOTAL RETURN HEAD LOSS = 35.722 FT.

POOL SUCTION HEAD LOSS CALCULATIONS

2.0" PIPE = $\frac{62}{100}$ = .62 FT.
3.0" PIPE = $\frac{163}{100}$ = 1.63 FT.

TOTAL = 2.25 FT.

2.0" FITTINGS = $\frac{12.7}{100}$ = .127 FT.
3.0" FITTINGS = $\frac{40.4}{100}$ = .404 FT.

TOTAL = .531 FT.

FILTER = 13
MULTIPOINT VALVE = 9
SKIMMERS = 2X1.75 = 3.5 FT.
ELEVATION CHANGE = 4 FT.

TOTAL SUCTION HEAD LOSS = 32.281

TOTAL HEAD LOSS = 62.003 FT.

WATER SURFACE AREA = 796 SQ. FT.
MAIN ENTRANCE TANNING SHELF = 55 SQ. FT.
POOL VOLUME = 4,162 CU FT.
GALLONS = 31,127
SYSTEM DESIGNED AT A 4 HOUR TURNOVER

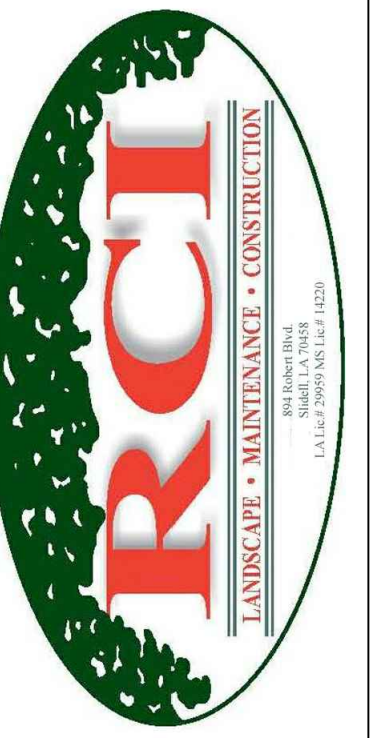
130 GPM FLOW RATE

POOL DECKING AREA = 3,125 SQ. FT.



POOL DATA

POOL AREA:	796 SQ. FT.
POOL VOLUME:	31,113 GALLONS
POOL DECK AREA:	3,125 SQ. FT.
POOL COPING PERIMETER:	133 LN. FT.
DESIGNED TURN OVER RATE:	4 HOURS
DESIGNED FLOW RATE:	130 GPM
TOTAL HEAD:	68 FT.
TOTAL BATHER LOAD:	39 BATHERS
POOL SHELL CONSTRUCTION:	EXISTING CONCRETE



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Pool Identification Plan

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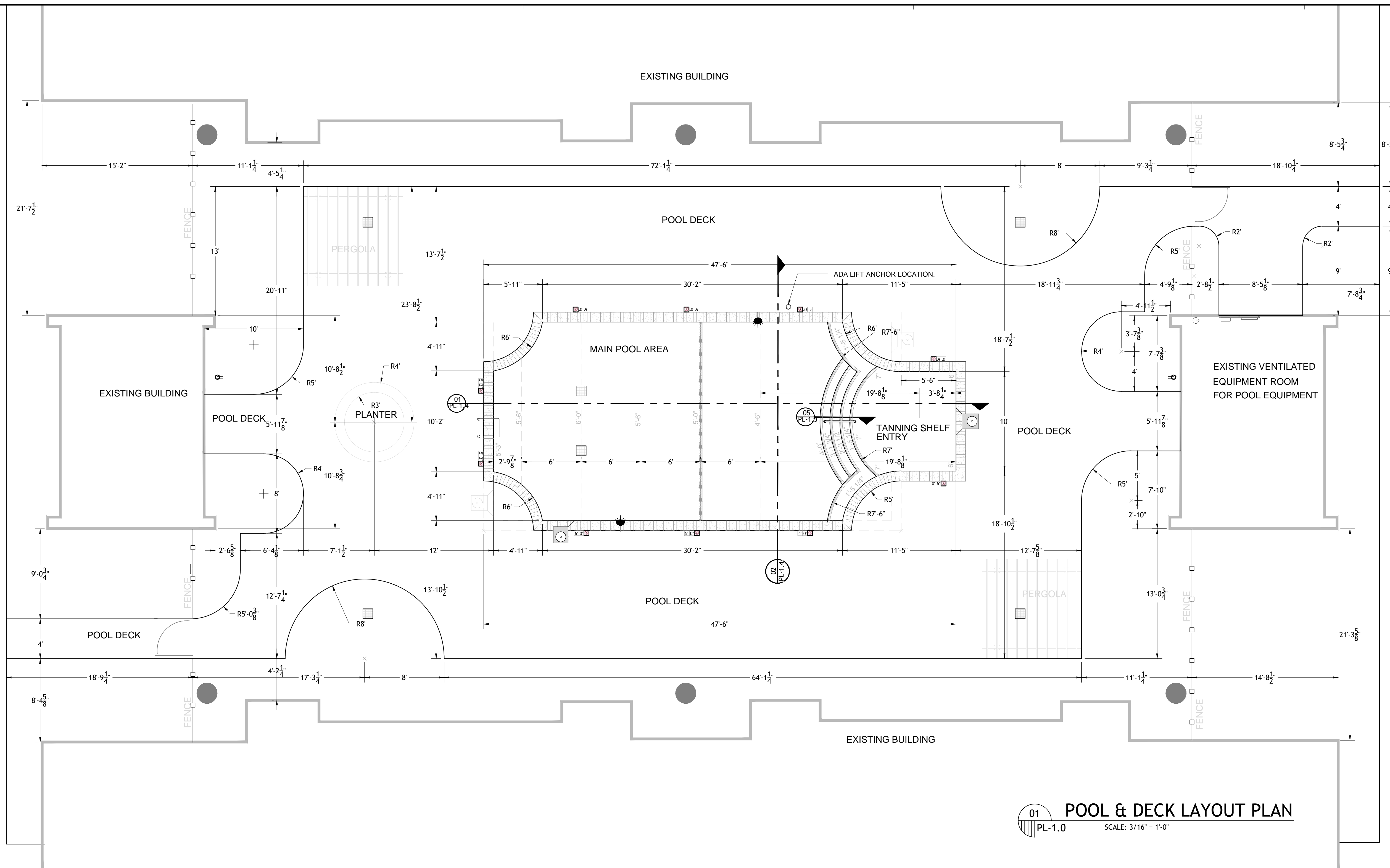
NOTES, CODE COMPLIANCE, & POOL CALCULATIONS

Drawing No.

G-1.0

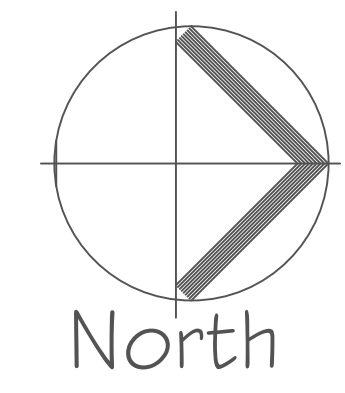
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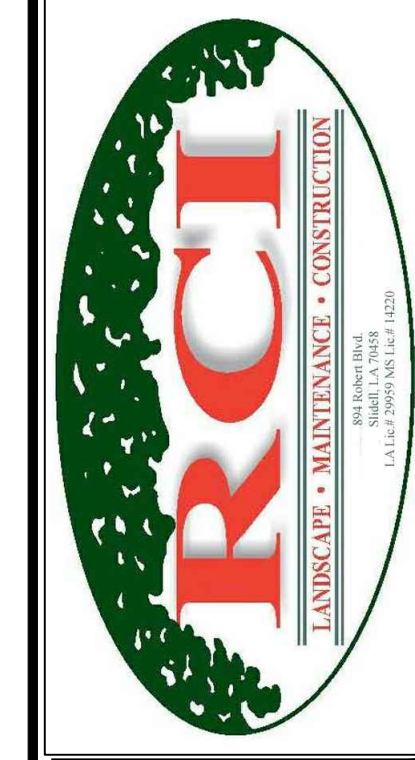


SYMBOL LEGEND	
	EXISTING LIGHTING FIXTURE
	EXISTING HOSE BIBB
	POOL LADDER
	HANDRAIL
	UNDERWATER POOL LIGHT
	DECK DEPTH MARKER AND 'NO DIVING SYMBOL'
	SKIMMER
	EXISTING DRAIN BASIN
	MAIN DRAIN
	ADA POOL ANCHOR
	RETURN INLET

01 POOL & DECK LAYOUT PLAN
 PL-1.0 SCALE: 3/16" = 1'-0"



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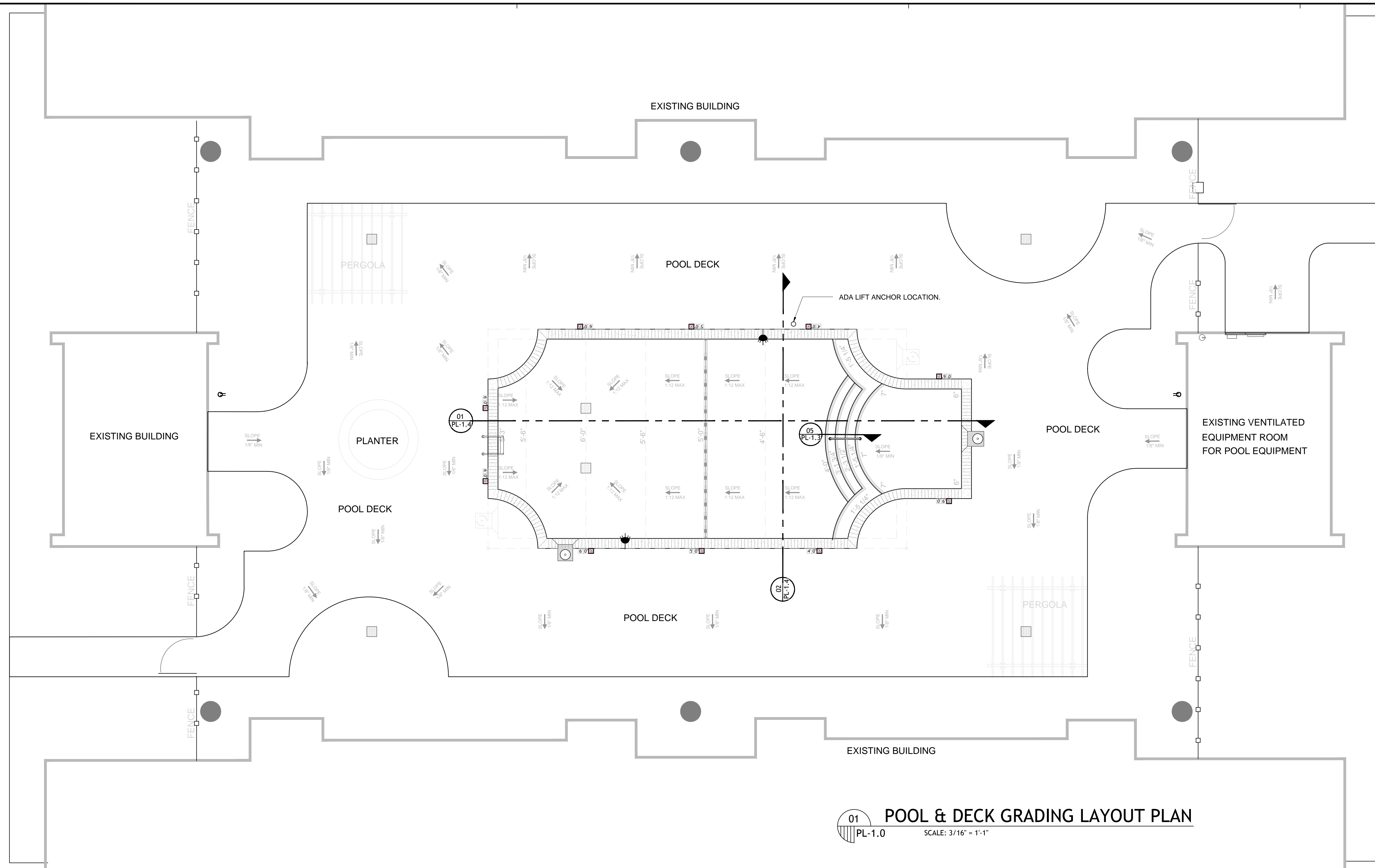
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POOL & DECK
 LAYOUT PLAN
 PLAN

Drawing No.
PL-1.0
 Sheet No.
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01 POOL & DECK GRADING LAYOUT PLAN
 PL-1.0 SCALE: 3/16" = 1'-1"

SYMBOL LEGEND	
	EXISTING LIGHTING FIXTURE
	EXISTING HOSE BIBB
	POOL LADDER
	HANDRAIL
	UNDERWATER POOL LIGHT
	DECK DEPTH MARKER AND "NO DIVING SYMBOL"
	SKIMMER
	EXISTING DRAIN BASIN
	MAIN DRAIN
	ADA POOL ANCHOR
	RETURN INLET



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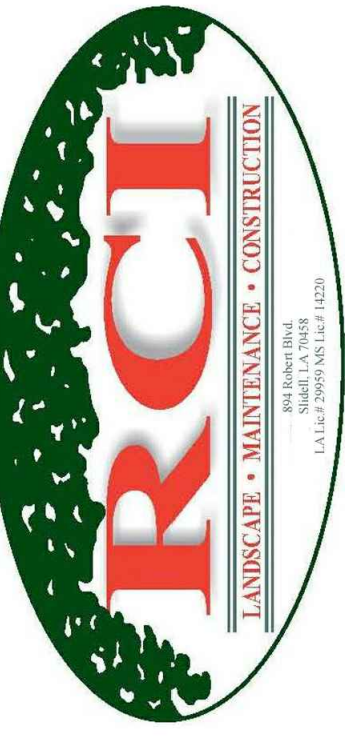
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POOL & DECK
 GRADING
 PLAN

Drawing No.
PL-1.1
 Sheet No.
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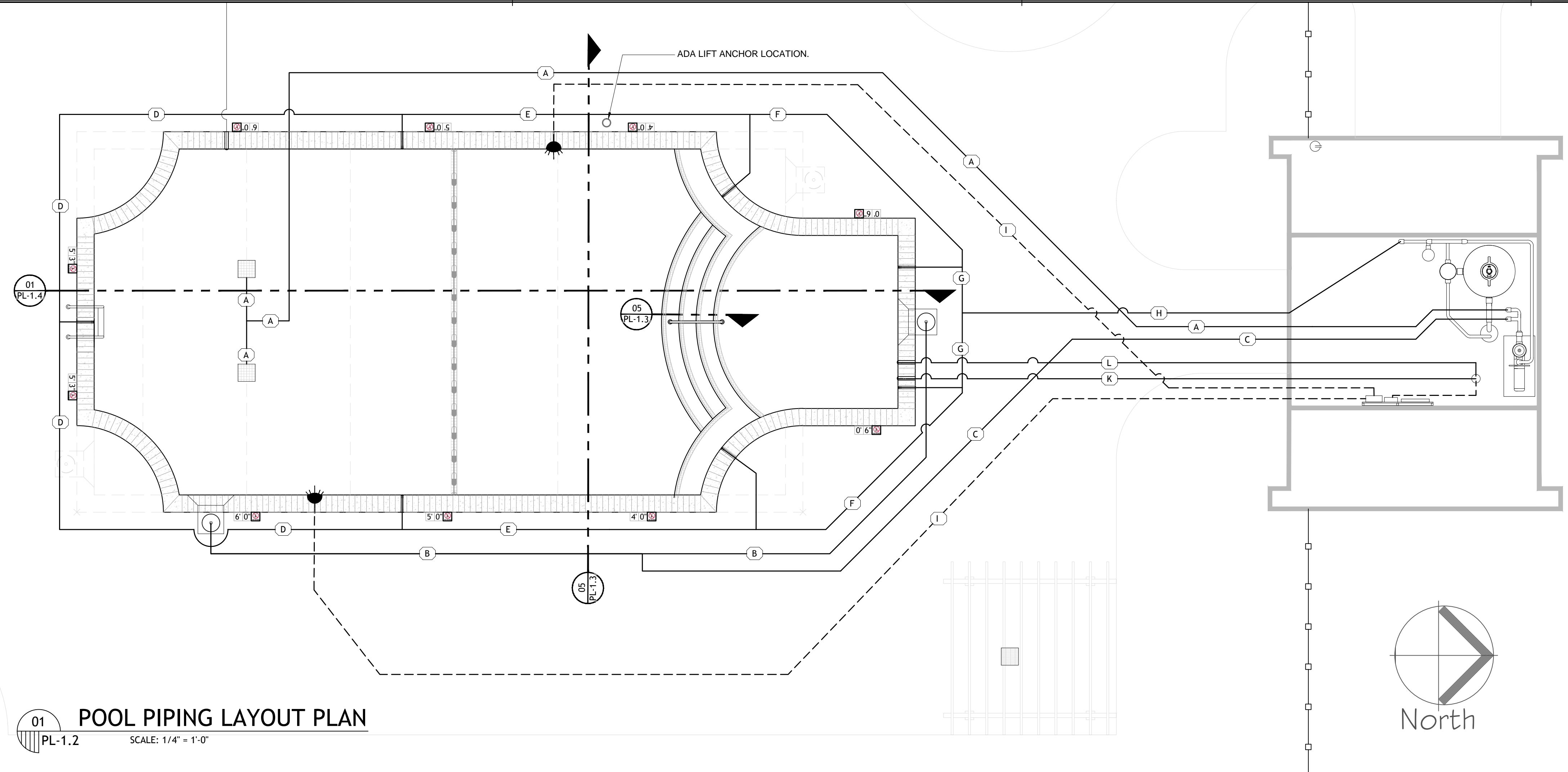
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POOL PIPING SCHEMATIC

Drawing No.

PL-1.2

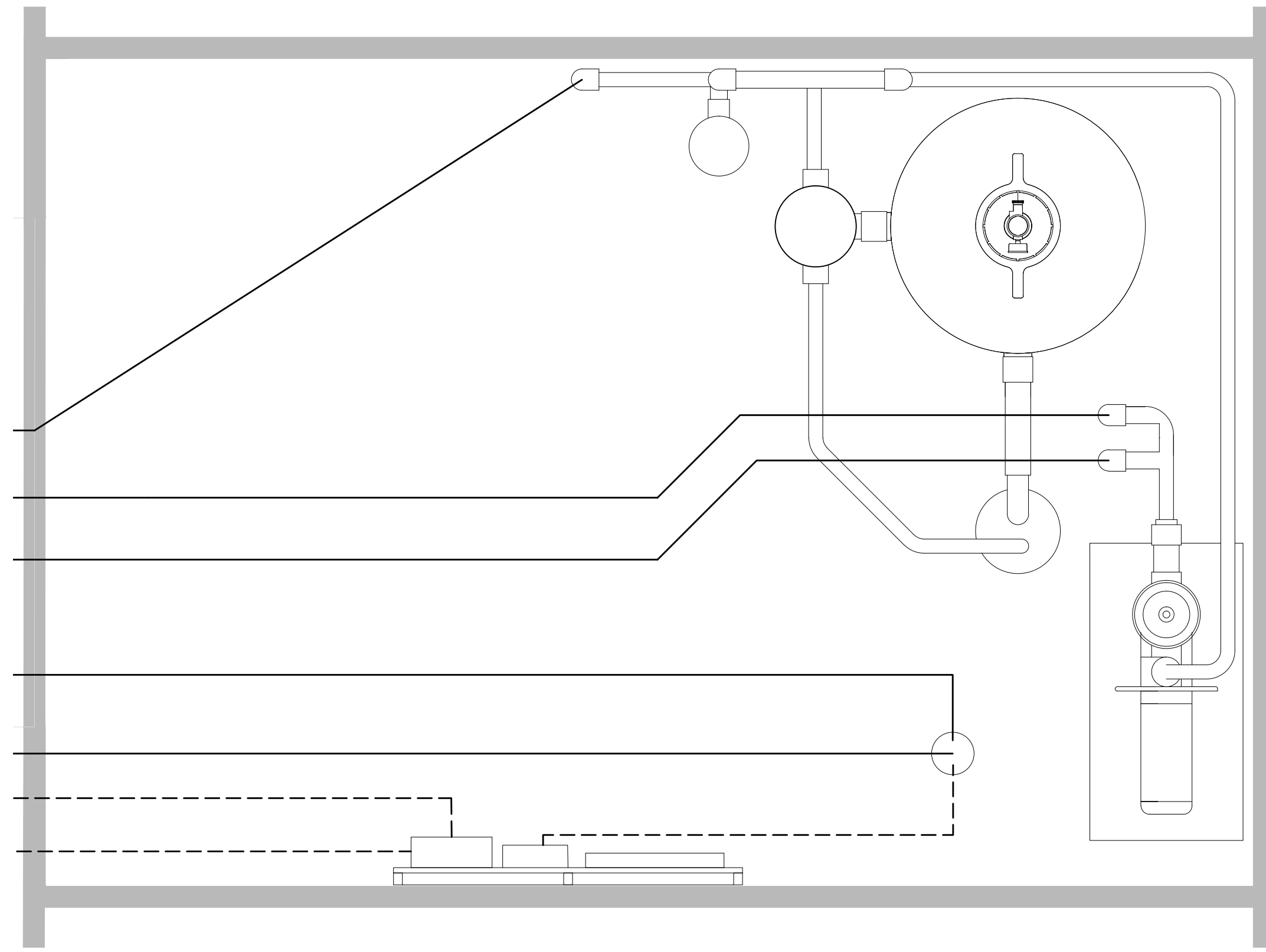
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01 POOL PIPING LAYOUT PLAN
PL-1.2 SCALE: 1/4" = 1'-0"

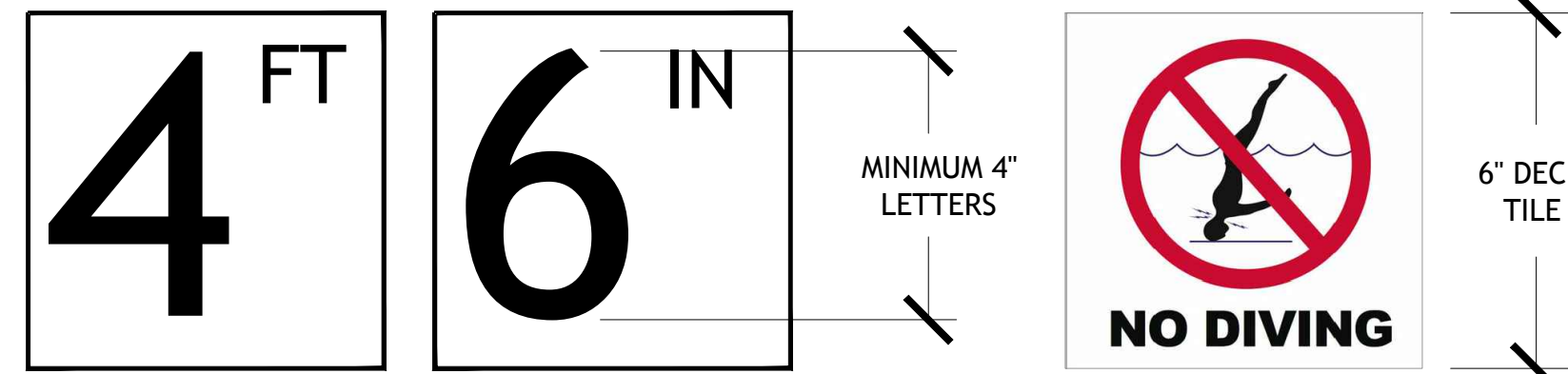
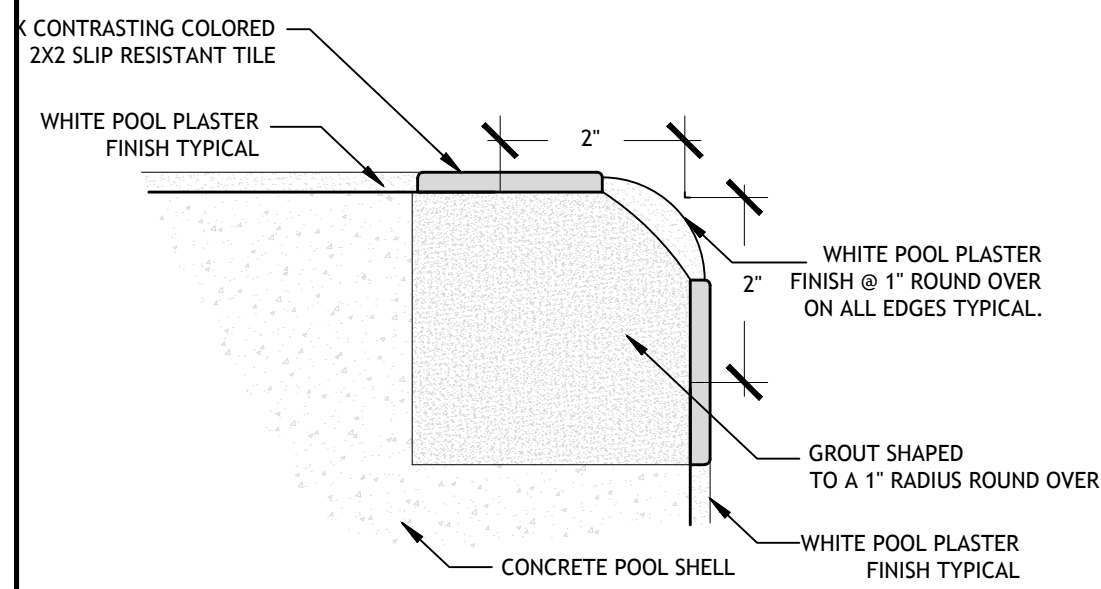
PIPE IDENTIFICATION LEGEND					
IDENTIFICATION	PLAN ID	SIZE	TYPE	FLOW RATE	VELOCITY
MAIN DRAIN SUCTION	A	3.0"	SCH 40 PVC	130 GPM	5.90 FPS
SKIMMER SUCTION	B	2.5"	SCH 40 PVC	65 GPM	4.25 FPS
SKIMMER SUCTION	C	3.0"	SCH 40 PVC	130 GPM	5.90 FPS
INLET RETURN	D	1.0"	SCH 40 PVC	18.57 GPM	7.59 FPS
INLET RETURN	E	1.5"	SCH 40 PVC	37.14 GPM	6.74 FPS
INLET RETURN	F	2.0"	SCH 40 PVC	55.72 GPM	5.69 FPS
INLET RETURN	G	2.5"	SCH 40 PVC	74.29 GPM	4.86 FPS
INLET RETURN	H	3.0"	SCH 40 PVC	130 GPM	5.90 FPS
ELECTRICAL CONDUIT	I	1.0"	CONDUIT	N/A	N/A
OVERFLOW LINE	J	1.5"	SCH 40 PVC	N/A	N/A
WL SAMPLE LINE	K	1.0"	SCH 40 PVC	N/A	N/A
SENSOR LINE	L	2.0"	SCH 40 PVC	N/A	N/A

POOL DATA	
POOL AREA:	796 SQ. FT.
POOL VOLUME:	31,113 GALLONS
POOL DECK AREA:	3,125 SQ. FT.
POOL COPING PERIMETER:	133 LN. FT.
DESIGNED TURN OVER RATE:	4 HOURS
DESIGNED FLOW RATE:	130 GPM
TOTAL HEAD:	66 FT.
TOTAL BATHER LOAD:	39 BATHERS
POOL SHELL CONSTRUCTION:	EXISTING CONCRETE



02 EQUIPMENT ROOM BLOWUP
PL-1.2 SCALE: 3/4" = 1'-0"





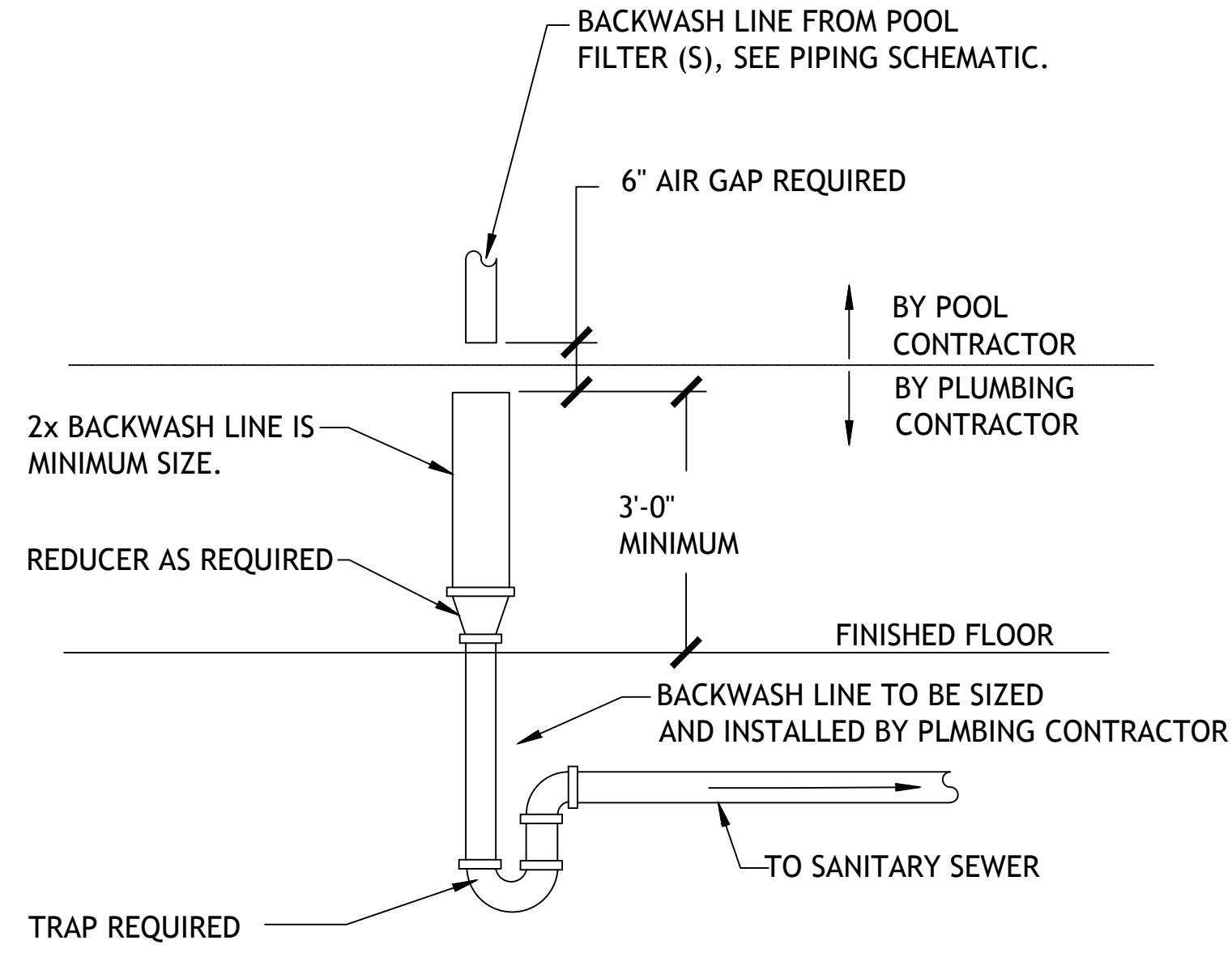
DEPTH MARKERS
MARKER REQUIREMENTS:

- DEPTH MARKERS BOTH SHOWING FEET AND INCHES
- "NO DIVING" SYMBOL MARKER WITH EACH DEPTH MARKER.

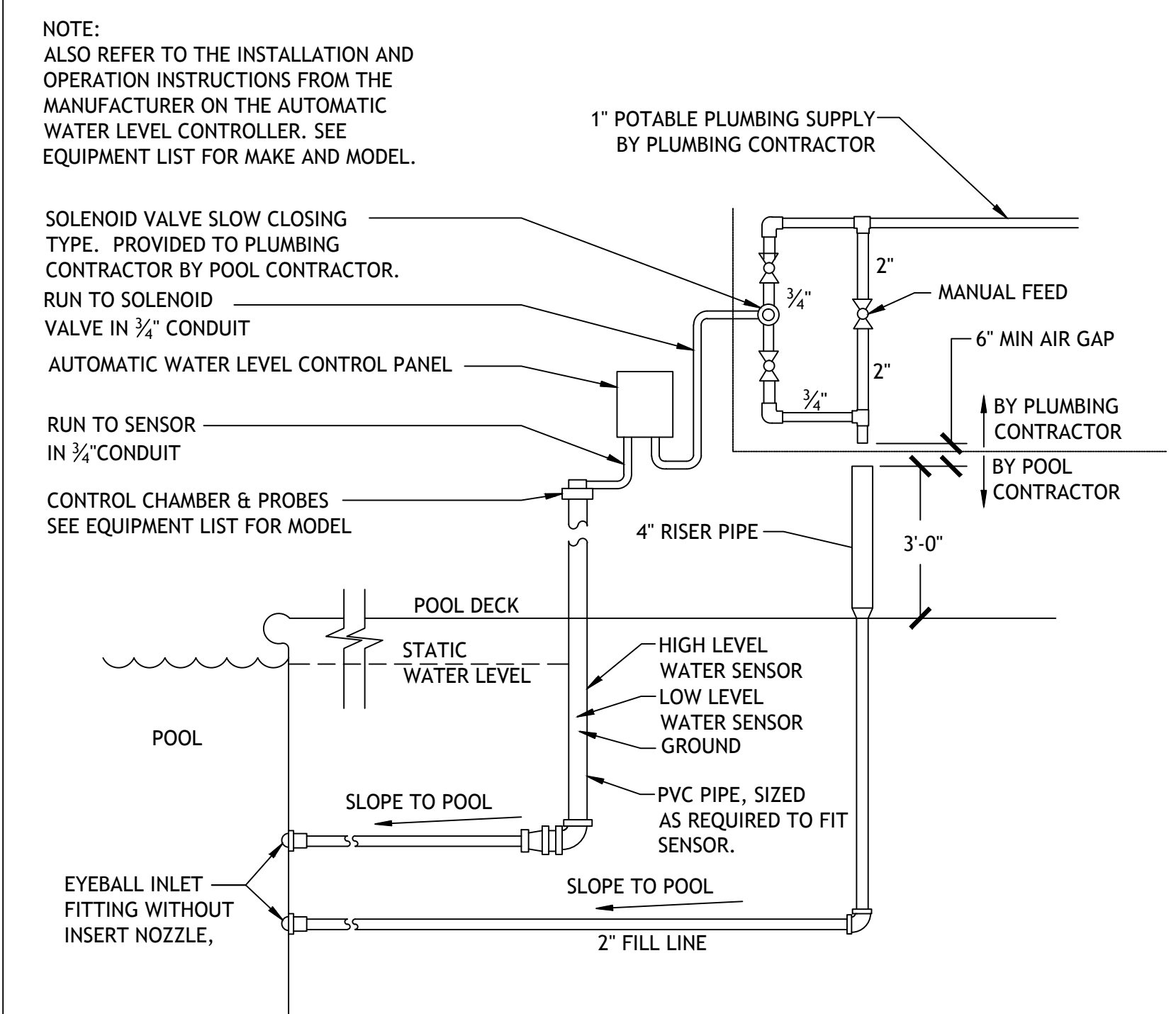
NOTES:

- 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.
- DECK TILES TO BE WITHIN 18" OF THE POOL WATER SURFACE
- DECK TILES TO BE POSITIONED TO BE READ WHILE STANDING ON THE DECK FACING THE WATER.
- DEPTH MARKERS TO BE IN ENGLISH.
- NUMERICAL COLOR OF LETTERING TO BE BLACK, ON WHITE BACKGROUND.
- "NO DIVING" INTERNATIONAL SYMBOL MARKER TO BE PLACED AT EVERY LOCATION WHERE A DEPTH MARKER IS LOCATED.
- ALL DECK DEPTH MARKERS & NO DIVING SYMBOLS ARE TO HAVE A SLIP RESISTANT FINISH TYPICAL.
- POOL WALL DEPTH MARKERS & NO DIVING SYMBOLS ARE TO HAVE A SMOOTH FINISH.

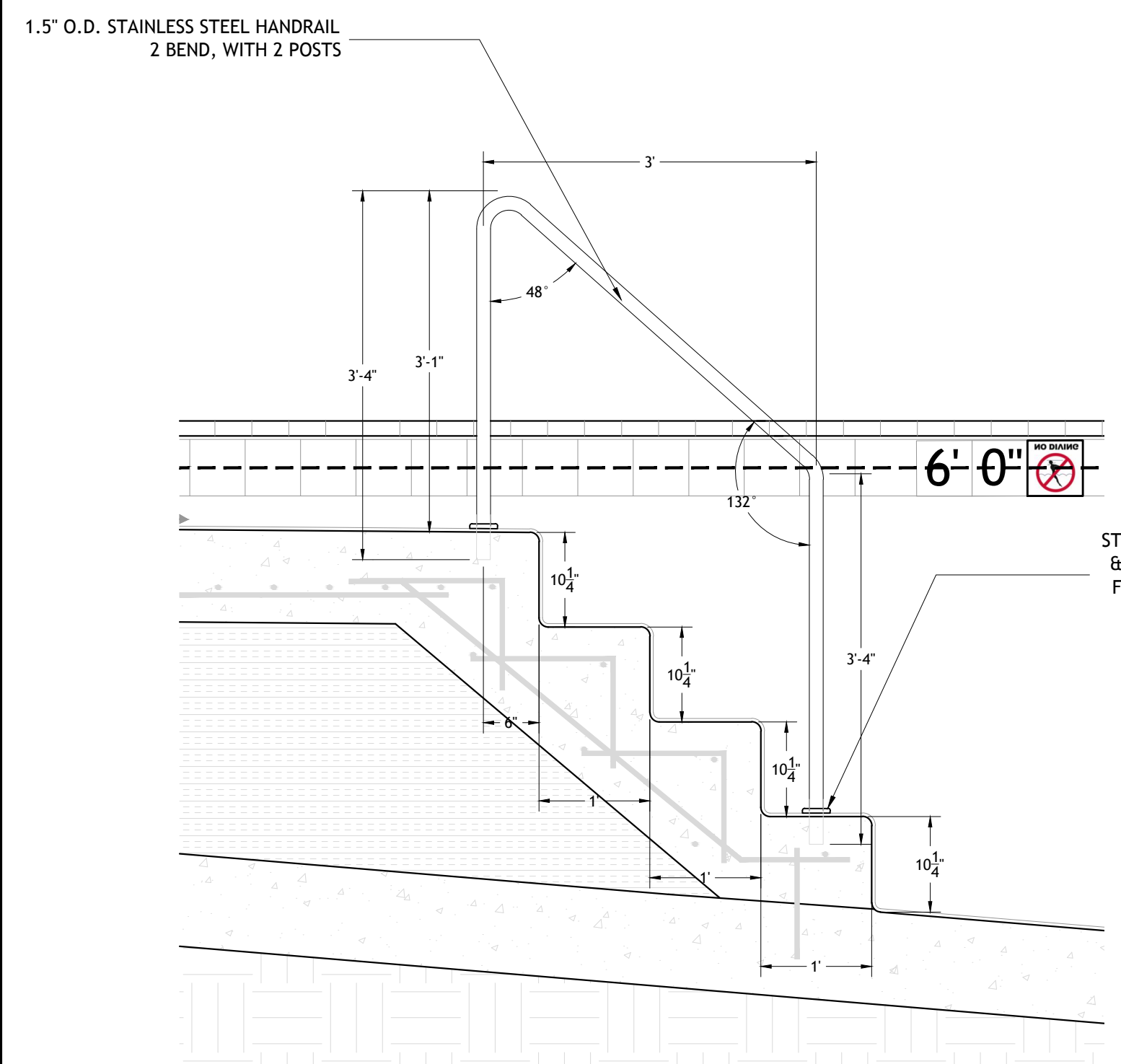
01 DEPTH MARKERS & TILE DETAILS
 PL-1.3 NOT TO SCALE



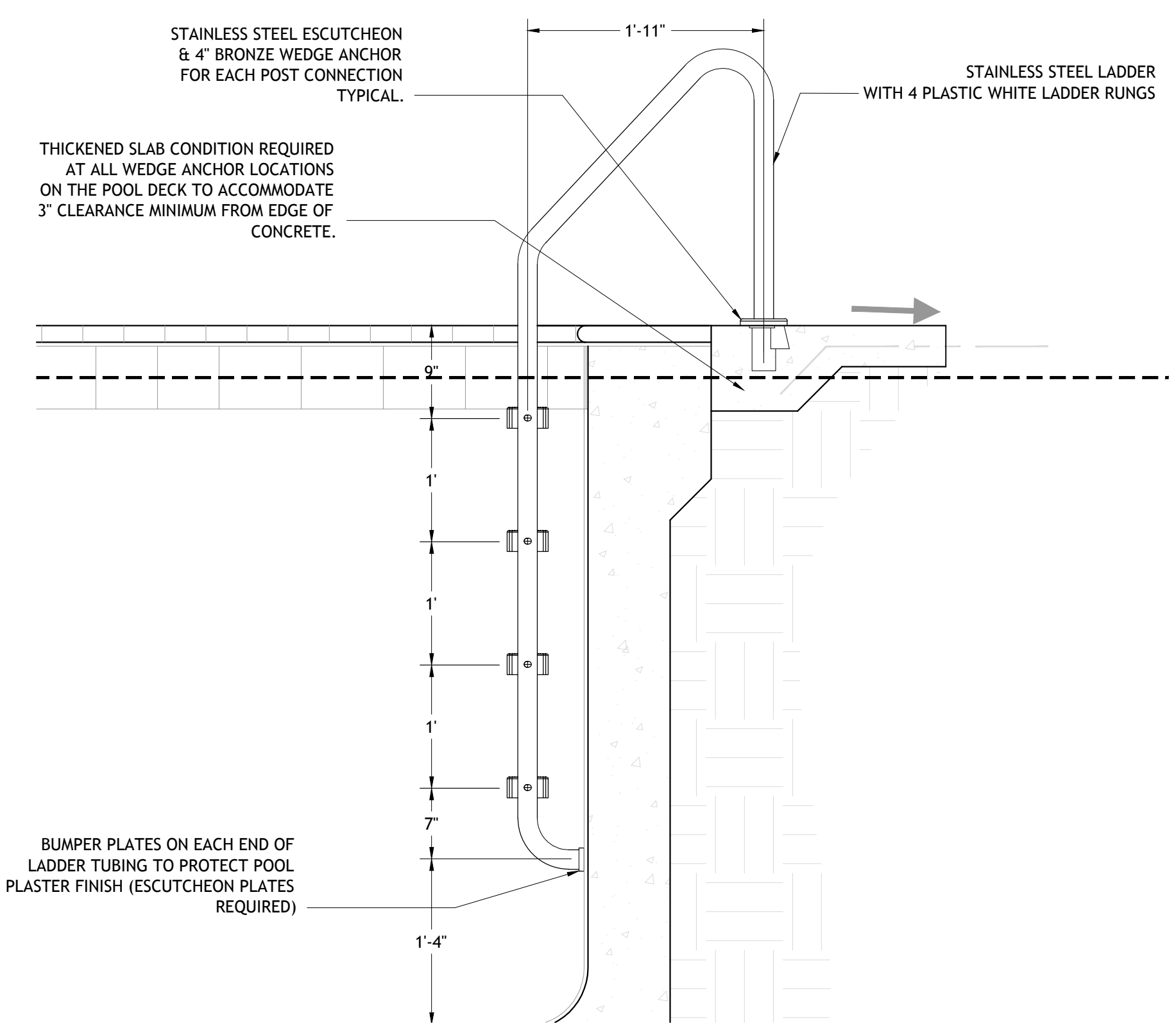
02 BACKWASH TYPICAL DETAIL
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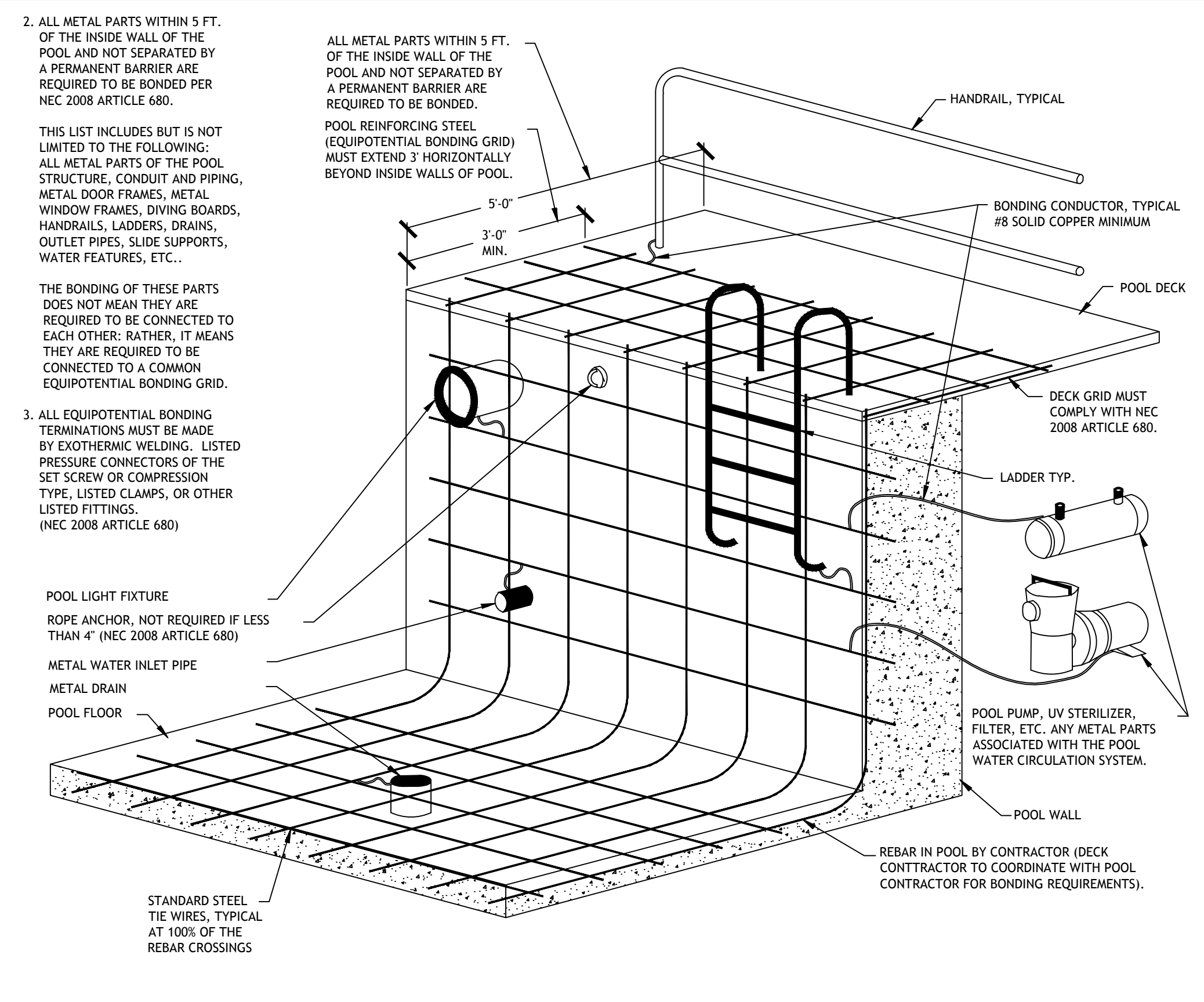
03 AUTOFILL TYPICAL DETAIL
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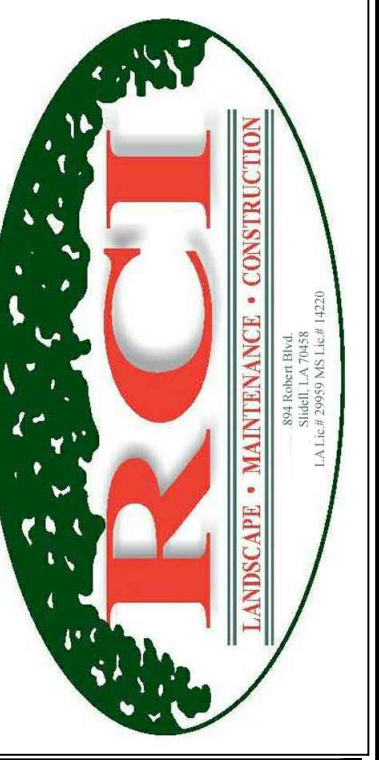
05 WET LEDGE ENTRY HANDRAIL DETAIL
 PL-1.3 SCALE: 1" = 1'-0"



05 LADDER DETAIL
 PL-1.3 NOT TO SCALE



06 TYPICAL GROUNDING & BONDING DETAIL
 PL-1.3 NOT TO SCALE



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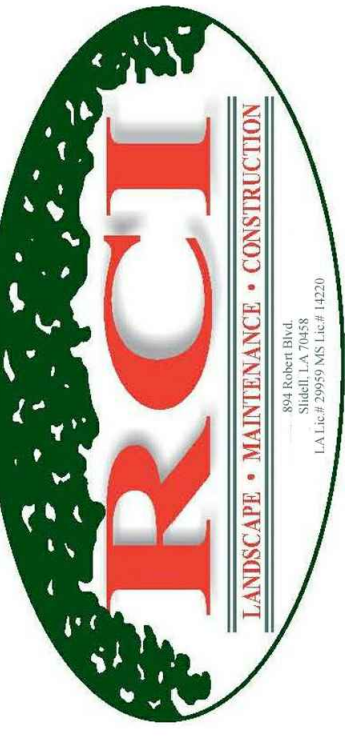
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POOL DETAILS
 Drawing No.



PL-1.3
 Sheet No. 5 of 7





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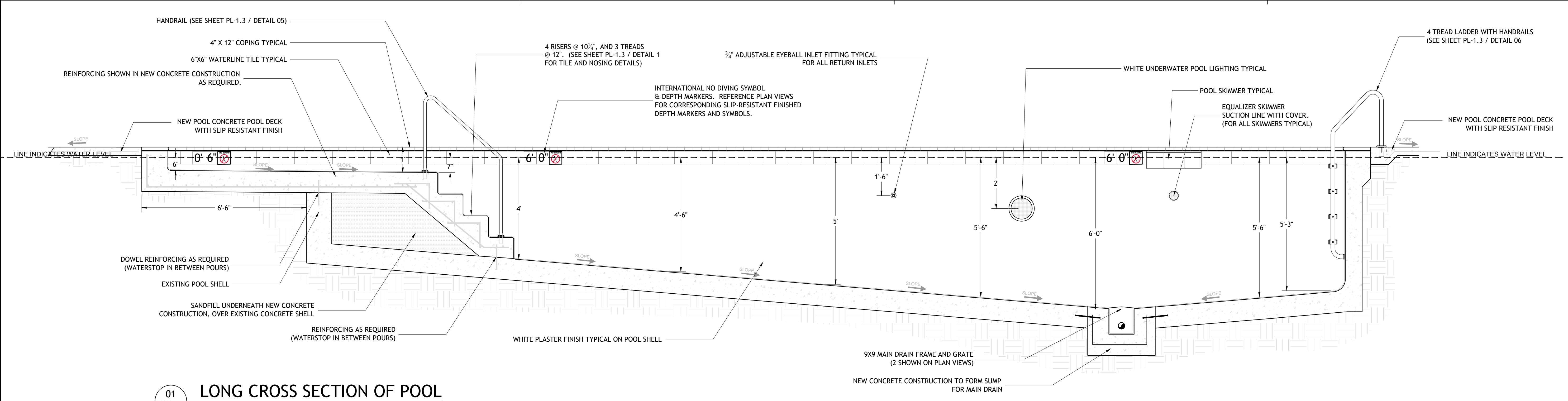
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POOL SECTIONS

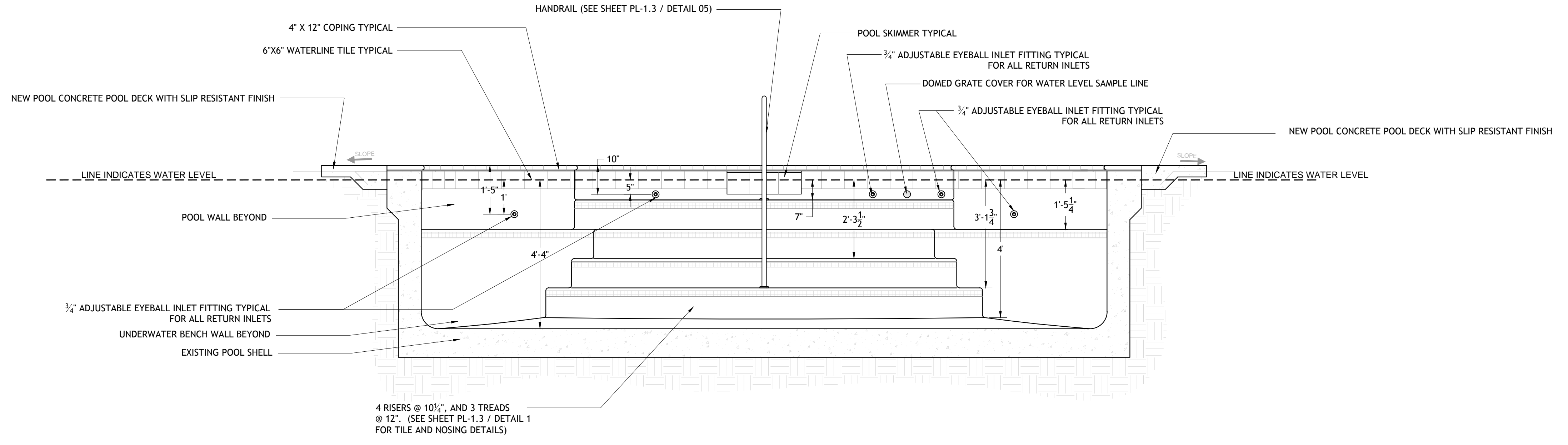
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PL-1.4

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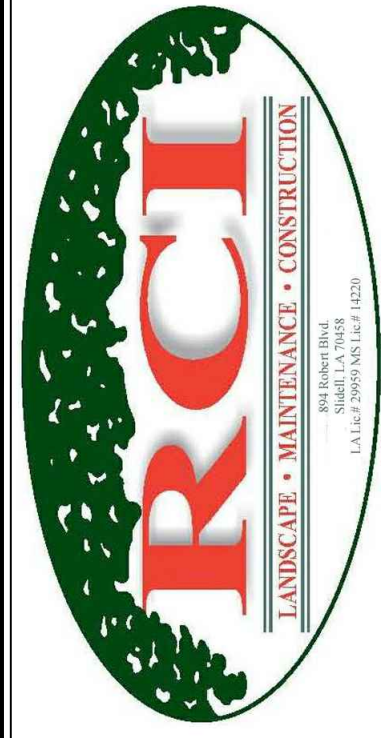


01 LONG CROSS SECTION OF POOL
PL-1.4 SCALE: 1/2" = 1'-0"



02 SHORT CROSS SECTION
PL-1.4 SCALE: 1/2" = 1'-0"





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Pool Identification Plan

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Contact: Rod Roto 985-643-2427
Project No:

Revisions:

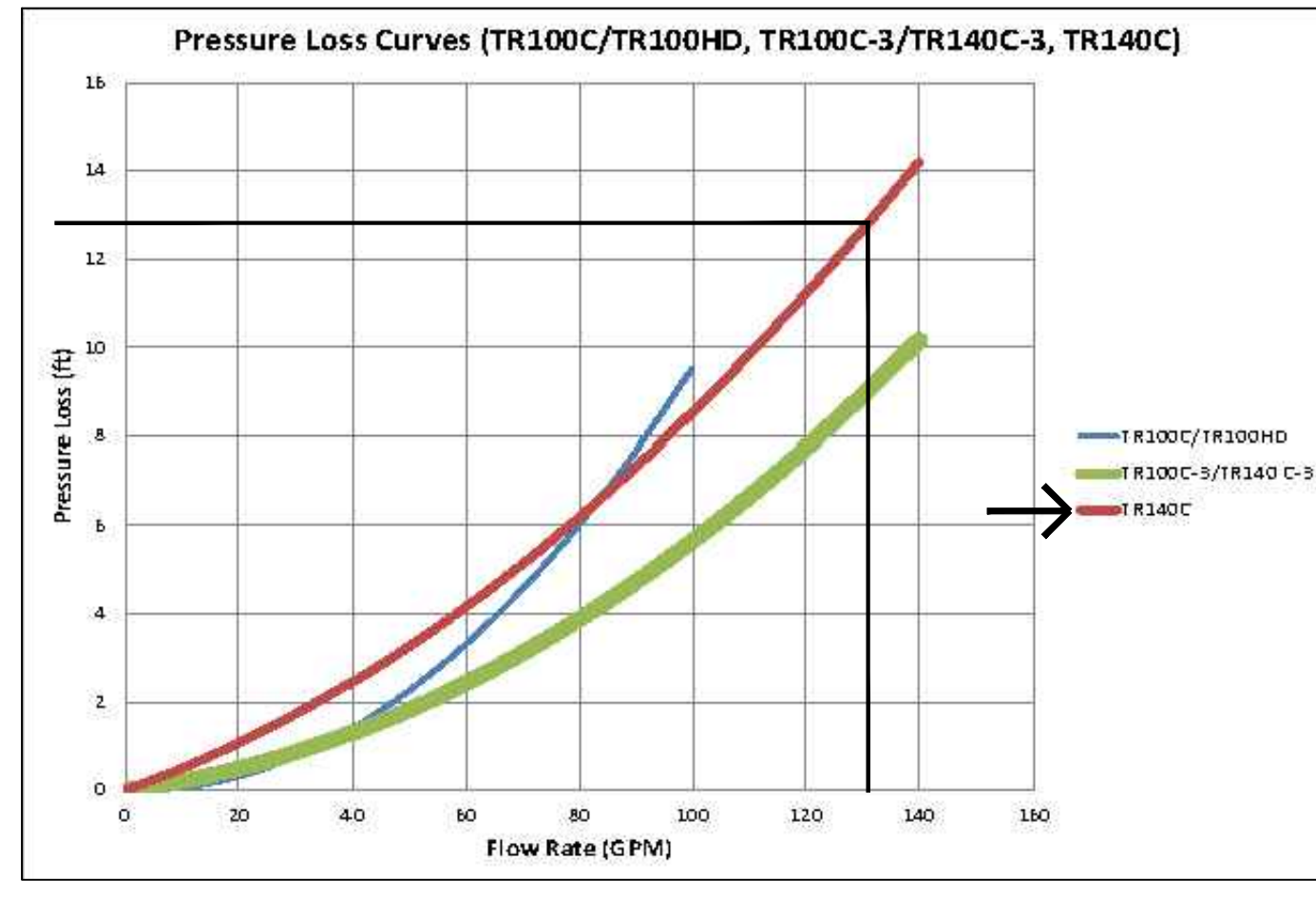
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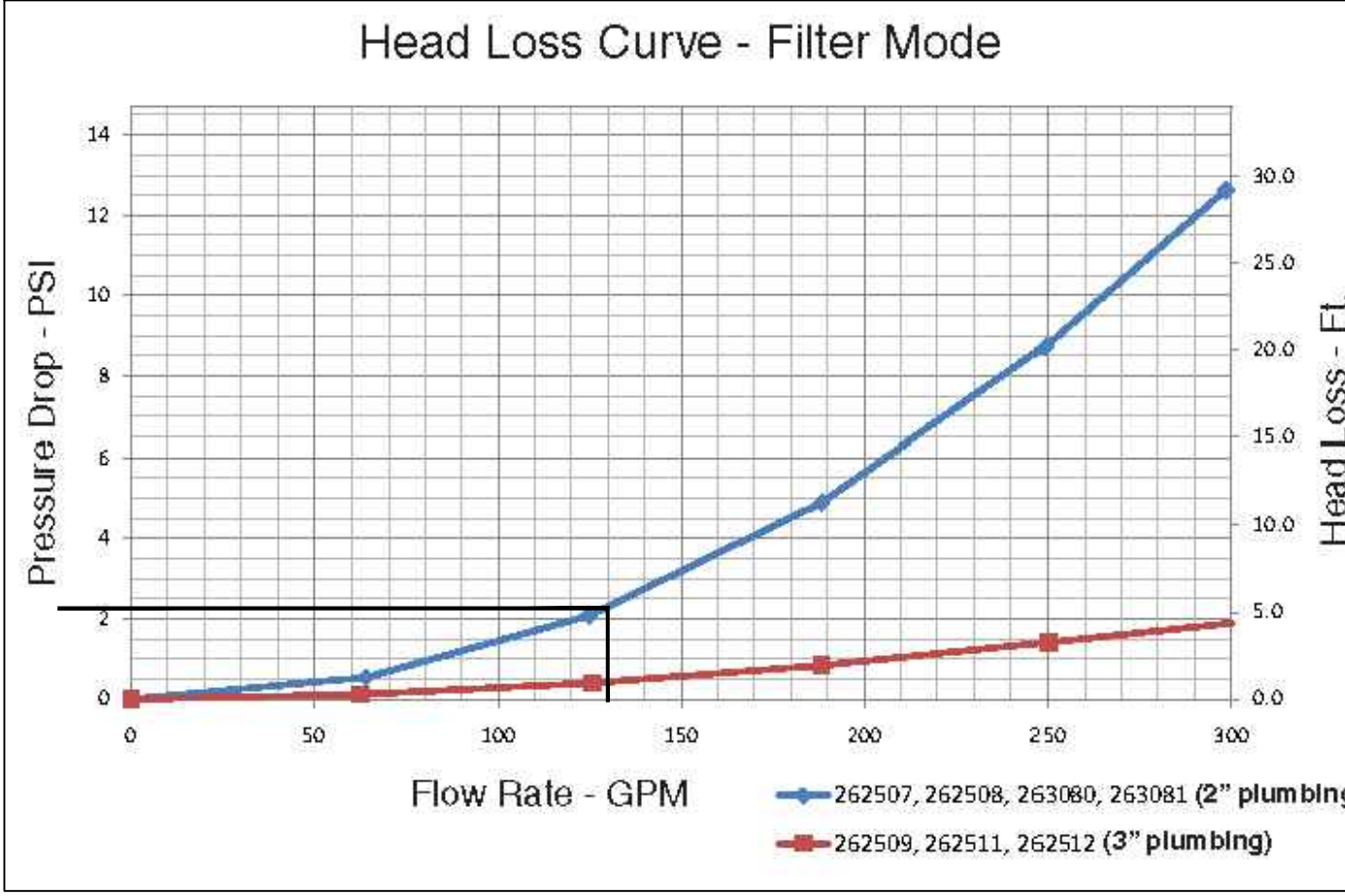
POOL SYSTEMS SCHEMATIC, CURVES, & CUT SHEETS

Drawing No.

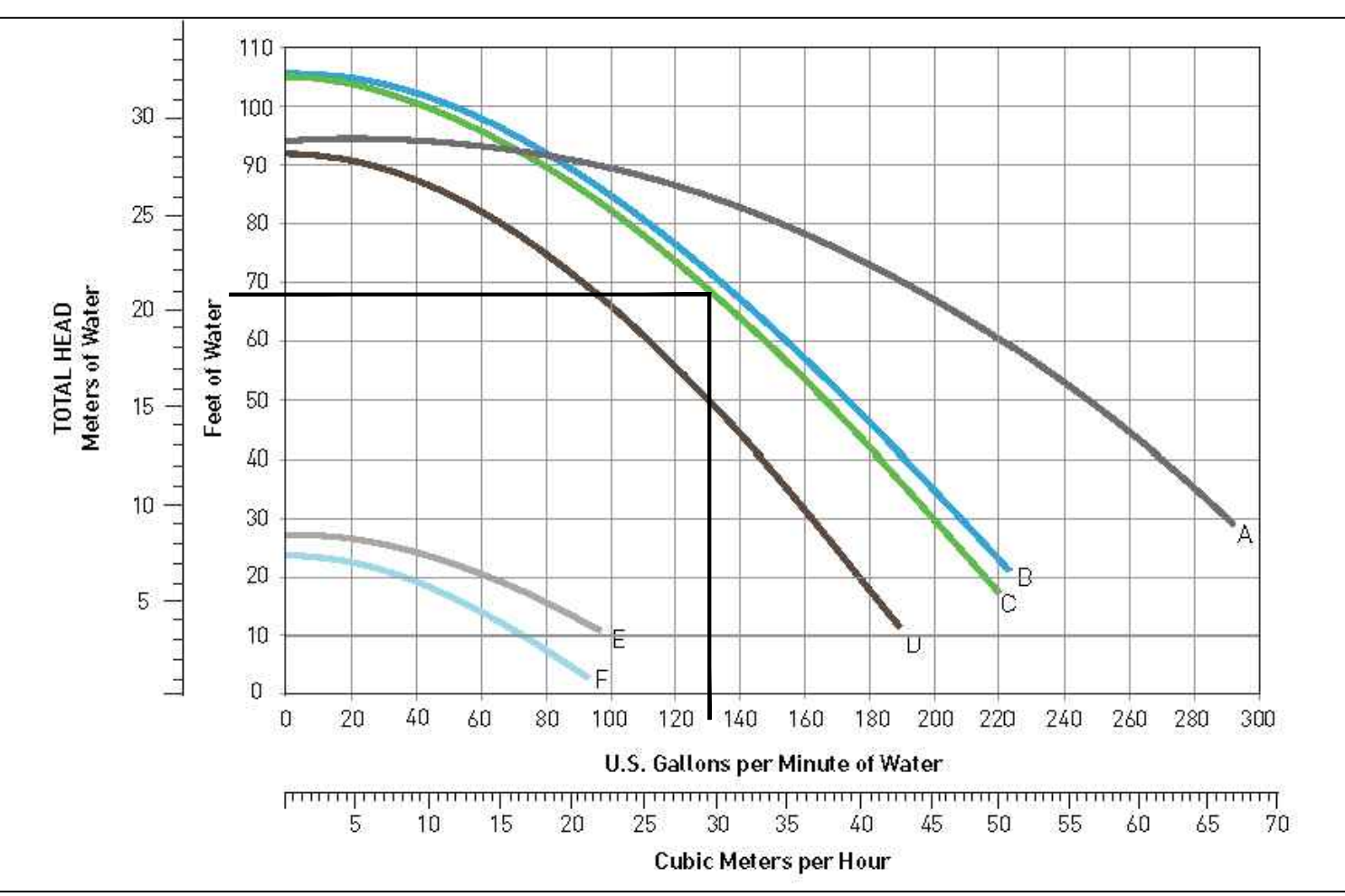
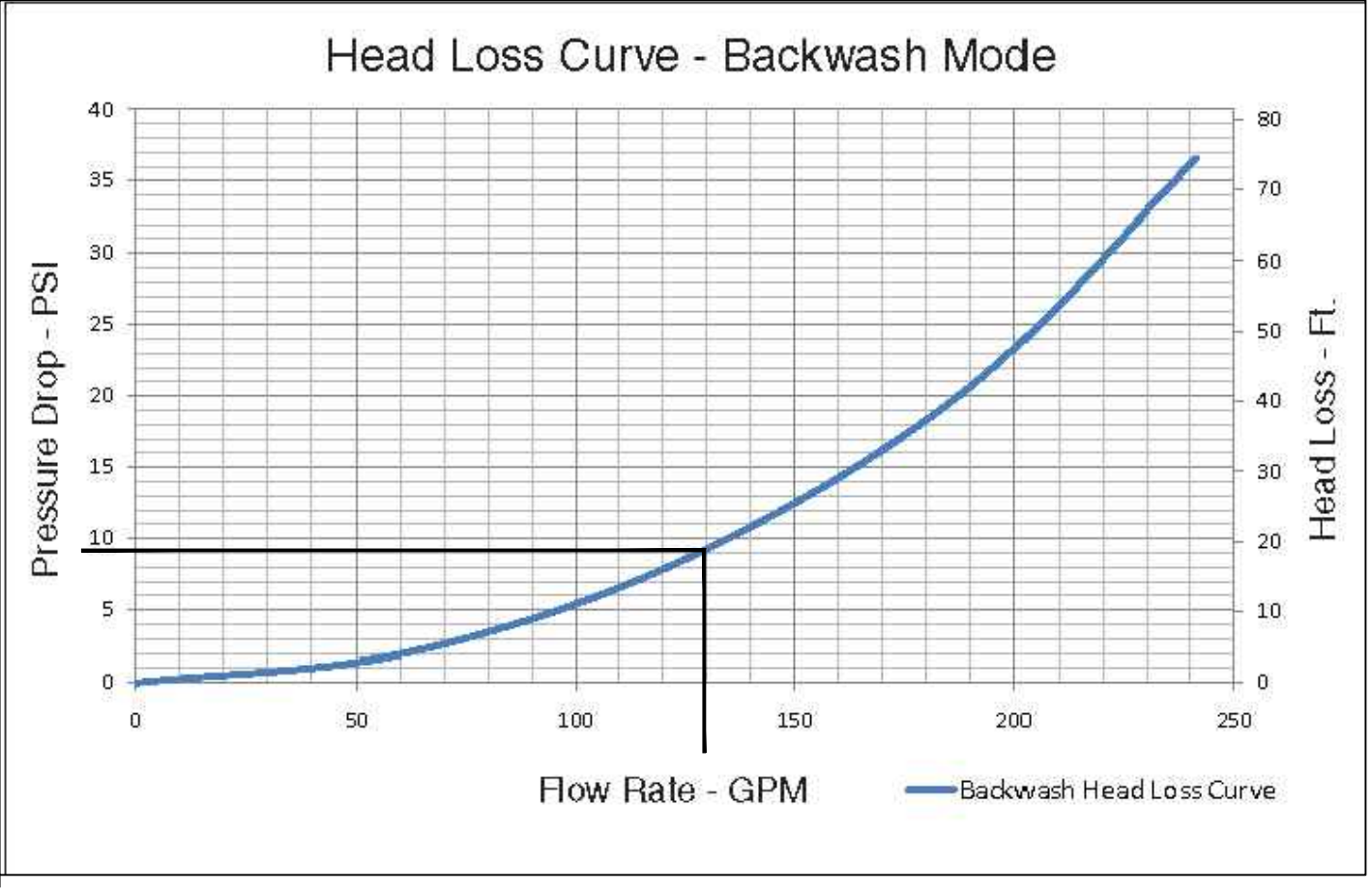
PL-1.5
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7 of 7



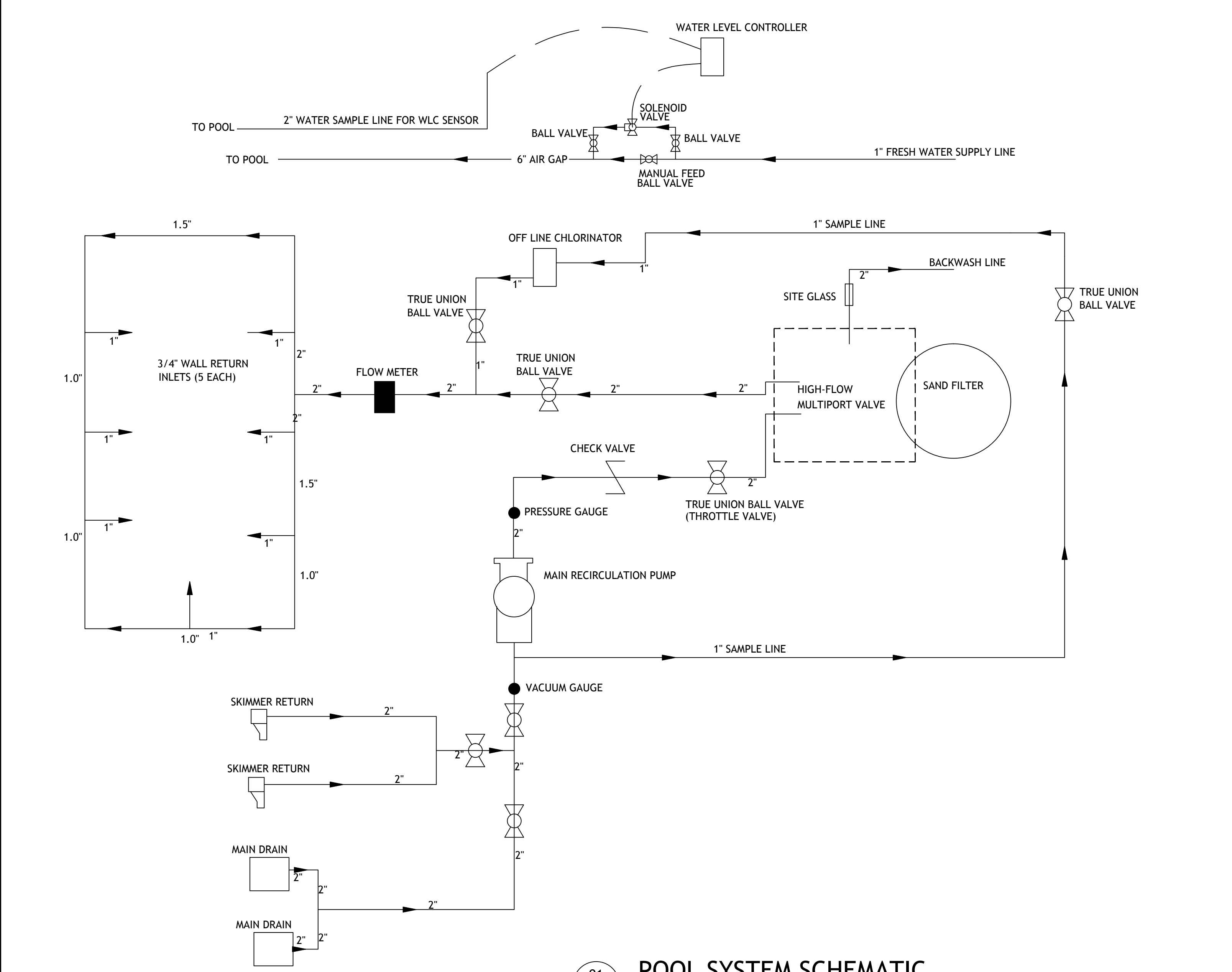
02 FILTER CURVES
PL-1.5 SCALE: NOT TO SCALE



03 FLOFLUX VALVE CURVES
PL-1.5 SCALE: NOT TO SCALE



07 MAIN PUMP CURVE
PL-1.5 SCALE: NOT TO SCALE



01 POOL SYSTEM SCHEMATIC
PL-1.5 SCALE: NOT TO SCALE

POOL EQUIPMENT LEGEND

QTY	DESCRIPTION
1	TR140C SAND FILTER BY PENTAIR
1	WHISPERFLO 3HP PUMP XF-12 EFFICIENCY
1	FLO-FLUX MULTI-PORT VALVE (TO ACCEPT 3" PIPING)
2	9"X9" FRAME & GRATE
2	PLASTIC LIGHT NICHE FOR 500 WATT POOL LIGHT
2	500 W WHITE POOL LIGHT W/ 150" CHORD
1	BLUE-WHITE IMPACT FLOW METER
1	RAINBOW CHLORINATOR MODEL #320 BY PENTAIR
8	SP14190 HAYWARD 3/4" DIRECTIONAL EYEBALL
10	HAY-25-1504 SP1022S INLET SLIP FITTING
2	HAY-25-1507 SP1026 GRATE INSERT (FOR SKIMMER EQ LINES)
1	HAY-25-1500 SP1019 GUTTER DRAIN (FOR OVERFLOW INLET)1
1	IEVELOR - WATER LEVEL CONTROLLER MODEL K-1100
1	TRUE-UNION BALL VALVES FOR PIPE SIZE 1" - 3"
1	SCH 40 PVC PIPE FOR ALL SUCTION, RETURN, AND EQUIPMENT ROOM PIPING
1	ADA POOL LIFT ANCHOR
1	PORTABLE POOL LIFT W/ ANCHOR KIT
1	CUSTOM 1.50" O.D. HANDRAIL (2 BEND, TWO POST)
1	4 TREAD STAINLESS STEEL LADDER WITH 4 PLASTIC WHITE TREADS
4	4" WEDGE ANCHORS FOR HANDRAIL AND LADDER
4	1.5" O.D. ESCUTCHEONS FOR HANDRAIL AND LADDER
1	6X6 WATERLINE TILE
1	2X2 TILE FOR 4" DEPTH BAND
1	2X2 KEYSTONE TILE FOR STEPS, TANNING LEDGES, AND UNDERWATER BENCHES
1	6X6 DEPTH MARKERS, BLACK LETTERING ON WHITE BACKGROUND (SLIP RESISTANT FINISH)
1	6X6 INTERNATIONAL "NO DIVING" SYMBOL
1	WHITE PLASTER
2	STAINLESS STEEL CUP ANCHOR
1	ROPE WITH BUOYS, AND HOOKS ON ENDS

Standard Plus Ladder

SRSmith

4 Tread Stainless Steel Ladder with 4 Plastic White Treads

SRSmith

04 S.S. 4 TREAD LADDER
PL-1.5 SCALE: NOT TO SCALE

2-bend Stair Rails

SRSmith

Handrail with 2 bends

SRSmith

05 S.S. HANDRAIL
PL-1.5 SCALE: NOT TO SCALE

Waterway Technical Bulletin TUB2009

640-479X V

Part Number: 640-479X V

Description: Grate & Frame 9" x 9"

UL 2088

Waterway

06 MAIN DRAIN FRAME & GRATE
PL-1.5 SCALE: NOT TO SCALE

CERTIFICATION OF COMPLIANCE

9" x 9" GRATE & FRAME

Part Number: 640-479X V

UL 2088

Waterway

