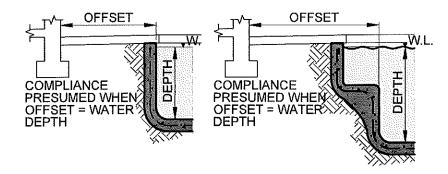


TYPICAL RESIDENTIAL POOL / SPA SCHEMATIC PLAN

721

FBC NO LONGER REQUIRES EXCAVATIONS OUT OF THE "ANGLE OF REPOSE PLUS 1 FT". THE CURRENT REQUIREMENT IN 7TH ED (2020) FBC, SECTION 1804.1 STATES THAT "EXCAVATIONS SHALL NOT REMOVE VERTICAL OR LATERAL SUPPORT FROM ANY FOUNDATION." THEREFORE THE FOLLOWING IS REQUIRED:



"ANGLE OF REPOSE" OR SEE CONTRACTOR PLAN

- WHEN THE POOL DECK DISTANCE IS EQUAL TO OR GREATER THAN WATER DEPTH, NO MITIGATION OF THE SHELL STRUCTURE IS REQUIRED, AND NO SHORING OR FOUNDATION SUPPORT INITIALLY REQUIRED.
- WHEN THE POOL DECK DISTANCE IS LESS THAN THE WATER DEPTH. THE ENGINEER SHALL PROVIDE A MITIGATION SPECIFICATION, EITHER TO PROTECT THE FOUNDATION DURING EXCAVATION OR STRENGTHEN THE SHELL FROM STRUCTURE LOADS
- IF DURING EXCAVATION, SOIL CONDITIONS APPEAR TO LEAD TO LOSS OF FOUNDATION SUPPORT. THE CONTRACTOR SHALL CEASE **EXCAVATION AND CONTACT THE ENGINEER FOR MITIGATION** SPECIFICATIONS.
- IF AFTER EXCAVATION THE CONTRACTOR OR INSPECTOR FIND A LOSS OR THREATENED LOSS OF SOIL SUPPORT AT THE FOUNDATION, CONTACT THE ENGINEER FOR A MITIGATION SPECIFICATION.

NOTES:

• THIS PLAN IS SCHEMATIC & PIPING SHALL BE CONNECTED TO PROVIDE A FUNCTIONING SYSTEM

 POOL PIPING SHALL HOLD A STATIC WATER OR AIR PRESSURE NOT LESS THAN 35 PSI FOR 15 MINUTES, PER R4501.12.1

 POOLS SHALL HAVE PUMPS SELECTED TO PROVIDE MINIMUM 12 HR. TURNOVER & MAXIMUM 6 HOUR TURNOVER.

DETERMINE PIPE SIZING FROM ATTACHED ANSI WORK SHEETS.

SPA PIPING DETERMINED FROM ATTACHED WORK SHEETS.

 DUAL MAIN DRAINS SHALL HAVE A MINIMUM SEPARATION OF 3 FT, UNLESS ONE IS LOCATED ON A VERTICAL WALL OR A SINGLE UNBLOCKABLE DRAIN IS USED.

ALL SUCTION COVERS SHALL MEET ANSI/APSP/ICC-16 2017

• ALL PIPING SHALL BE NSF-PW APPROVED & MEET THE REQUIREMENTS OF 7TH ED. (2020) FBC.

 ELECTRICAL EQUIPMENT, WIRING, &
 INSTALLATION SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE 2017 EDITION.

 BONDING OF POOL STEEL & LIGHT TO FOOTING STEEL SHALL BE CONTINUED TO & INCLUDE ALL PUMPS & HEATERS.

• TEMPORARY FENCING SHALL BE INSTALLED & MAINTAINED UNTIL PERMANENT CHILD SAFETY FEATURES ARE INSTALLED.

• THERE SHALL BE A PASSING ELECTRICAL & CHILD SAFETY FINAL INSPECTION PRIOR TO FILLING THE POOL OR SPA WITH WATER.

• POOL SHALL MEET THE APPLICABLE CRITERIA IN ANSI/APSP 3,4,5,6, 7 & 15 STANDARDS ADOPTED IN 7TH ED. (2020)

 REGARDLESS OF THE CRITERIA HERE, THE PROJECT SHALL COMPLY WITH ALL SECTIONS OF THE 7TH ED. (2020) FBC -RESIDENTIAL, BUILDING, MECHANICAL, PLUMBING & GAS CODES, AS APPLICABLE RESPECTIVELY & AMENDED

SEE INFORMATION ATTACHED TO THIS PERMIT PACKAGE FOR SITE SPECIFIC **DETAILS SHOWING ANSI 7 & 15 AND FBC COMPLIANCE**

NOTE TO REVIEWER: **DETAILED TDH CALCULATIONS ARE REQUIRED TO DETERMINE ANSI 7-**SUCTION ENTRAPMENT **COMPLIANCE**

> COMPLIES WITH 7TH ED. (2020) FBC, ALL VÒLUMES

SIGNED FROM MONTHS 12 ONL ALID FOR USE IN: VARIOUSA JURISDICTIONS

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2

SECTIONS L POOL/SPA ESCAPES, TYPICAL PLAN & S FOR RESIDENTIAL SOUTHERN

MINT KINA DIE

TONAL ENGINEER

VERSION: 21-Dec-20

REV. DATI PROJ.NO.: **KE_RSTD**

SHEET

BY:

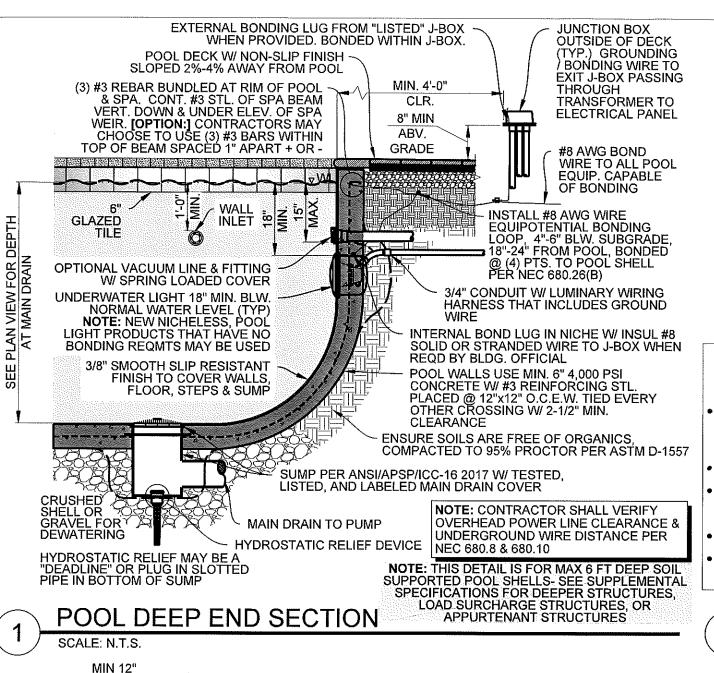
SHEET 1 OF 2

PROXIMITY TO STRUCTURE

SCALE: N.T.S.

6"

SCALE: N.T.S.



BENCH OR OTHER METHOD REQUIRED WHEN WATER **DEPTH EXCEEDS 5 FT**

THIS DETAIL

(2020) FBC

COMPLIES WITH

CHAPTER 454.2.1.18

BOTH 7TH ED.

& ANSI / APSP /

CONTAINS ALL

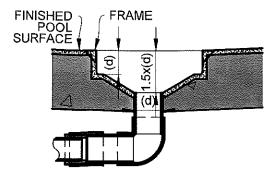
REQUIREMENTS

STATED IN THOSE

ICC-5 2011 &

RELATED

CODES.



SPECIFIED PVC PIPE SIZE MIN. SUMP DEPTH

1.5x(d) MIN. LEDGE DEPTH

FOR FIELD BUILT SUMPS SEE PRODUCT INSTALLATION INSTRUCTIONS

DRAIN COVERS & SUMPS a.k.a. SUCTION OUTLET FITTING

ASSEMBLIES (SOFA)
ANSI/APSP/ICC-16 2017
FOLLOW THE PRODUCT SPECIFICATIONS
AND/OR INSTALLATION INSTRUCTIONS
FOR MIN./MAX. SUMP DIMENSIONS, DRAIN
COVER/GRATE, AND FRAME FASTENING MEETING MFGR'S SOFA CERTIFICATION. DO NOT USE POWER TOOLS TO INSTALL
FASTENERS

FIELD MODIFICATIONS TO ANY SOFA NOT AUTHORIZED BY MFGR INSTALLATION INSTRUCTIONS SHALL VOID THE SOFA CERTIFICATION
HAND CHECK COVER/GRATE SNUGNESS

TO SUMP/FRAME AFTER INSTALLATION SOFA COMPONENTS HELD IN PLACE BY

INTERIOR FINISH OF THE POOL SHALL BE FREE OF DETERIORATION AND VOIDS



NOTES:

APPROVED PRODUCT SPECIFICATION MAY DIFFER FROM FIELD BUILT SUMPS SHOWN ON THIS PAGE

ADDITIONAL STRUCTURAL NOTES:

USE MINIMUM ASTM A815 GRADE 40 STEEL

 LAP #3 BARS MINIMUM 15" LAP #5 BARS MINIMUM 25"

 6" SHELL THICKNESS AND 2-1/2" **CONCRETE COVERAGE ARE MINIMUMS**

USE 4,000 PSI CONCRETE
 CONTRACTOR / OWNER REQUIRED TO:

• CONTACT ENGINEER IF POOL NOT PLACED ON UNDISTURBED AND DE-WATERED EARTH THAT CAN MEET 2,000 PSF BEARING CAPACITY.

•• WHEN BURIED DEBRIS IS **ENCOUNTERED OR QUESTIONABLE** CONDITIONS ARE INDICATED AT THE WORK SITE PRIOR / DURING CONSTRUCTION, A SUBSURFACE CONSULTANT SHALL CONDUCT BORING(S) IN THE AREA OF THE POOL TO CONFIRM SOIL BEARING CAPACITY CLEAR OF BURIED DEBRIS, & VERIFYING GROUND WATER LEVEL

• ALL MODIFIED SOILS & EARTH FILL UNDER PERSPECTIVE POOL AREA SHALL MEET A SOIL DENSITY AND COMPACTION MINIMUM OF 95% MODIFIED PROCTOR WITHOUT SETTLEMENT.

3" L VERT. W/ MIN. (2) #3 BARS CONT. @ TOP #3 BARS @ 12"O.C. HORIZ., TYP. U.N.O.

FIELD BUILT SUMP

SCALE: N.T.S.

NOTE: THIS DETAIL IS FOR MAX 6 FT DEEP SOIL SUPPORTED POOL SHELLS- SEE SUPPLEMENTAL SPECIFICATIONS FOR DEEPER STRUCTURES, LOAD SURCHARGE STRUCTURES, OR APPURTENANT STRUCTURES

POOL BEAM 8"x12" OPTION

COMPLIES WITH 7TH ED. (2020) FBC, ALL VOLUMES

WENT KIMES THE TO STONAL ENGINEERS

SIGNED

MONTHS FROM DATE

12

ONLY

VALID

THIS DOCUMENT

DRAWING: 01-Jan-21

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FOR

SOUTHERN ESCAPES,

USE IN: VARIOUS

SHEET

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SHEET 2 OF 2

TYPICAL SECTIONS RESIDENTIAL POOL/SPA

PLACE FOOTING STRUCTURE COMPACTED FILL MEETING

BENCH SECTION SCALE: N.T.S.

MAY VARY

MIN. 6" CONCRETE

SHELL & STEEL

ACCORDING TO

SPECIFICATIONS

SHOOT TO

EARTH

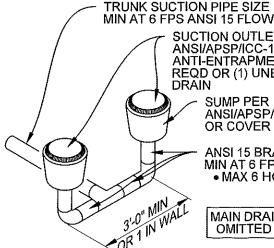
ON UNDISTURBED EARTH

95% MODIFIED PROCTOR

MEETING 2,000 PSF OR

UNDISTURBED

STANDARD .



SUCTION OUTLETS W/ ANSI/APSP/ICC-16 2017 ANTI-ENTRAPMENT COVER, (2) REQD OR (1) UNBLOCKABLE DRAIN SUMP PER ANSI/APSP/ICC-16 2017 OR COVER MFR. SPECS ANSI 15 BRANCH PIPE SIZE MIN AT 6 FPS AT FLOW BY: • MAX 6 HOUR TURNOVER

> MAIN DRAINS MAY BE OMITTED ENTIRELY

BRANCH PIPING

SCALE: N.T.S

OTHERWISE

5 | OPTIONAL



TDH CALCULATOR

STEP 1 POOL SPECIFICATIONS

STEP 2 SELECT E

STIEP 3

STEP 3 OF 3: TDH CALCULATION

Selected Components

| ool Volume (gallons): | 16500.00 gallons | Suction Lift: | 1.50 ft |
|-----------------------|------------------|-------------------|-----------|
| urn Over (hours): | 8.00 hours | | |
| Filtration Flow Rate: | 36.00 GPM | Maximum Flow Rate | 90.00 GPM |

2

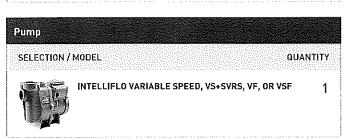
Components SELECTION QUANTITY INTELLICHLOR IC - 40 2" X 2,5" 2 WAY VALVE 8 MAIN DRAIN CLEAN AND CLEAR RP

3/4 INCH RETURN

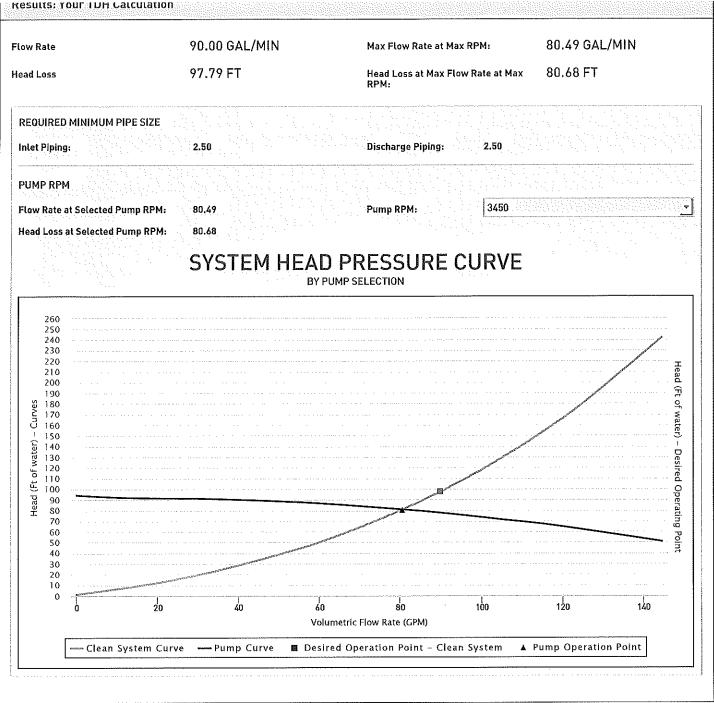
2" X 2.5" 3 WAY VALVE

MASTERTEMP

NO IMAGE AVAILABLE



| ction Lift: | 1.50 ft | |
|---|--------------------------------|------------------|
| faximum Flow Rate | 90.00 GPM | |
| | EC |)[C |
| Piping | | |
| MAXIMUM PIPE VELOCITY (FT/SEC) (CONSULT YOUR LOCAL CODE) | | 8 8 |
| TOTAL PIPING LENGTHS [FT] | INLET 400.0 DISCHARGE 400.0 | |
| SELECTION | QUANTIT | , |
| 90 DEGREE ELBOW | INLET 1 DISCHARGE 1 | 3 |
| TEE THROUGH | | 2 |
| CHECK VALVE | | T T |
| TEE BRANCH | INLET DISCHARGE | 2 |
| | | - I AAAT AAAATAA |



BACK



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