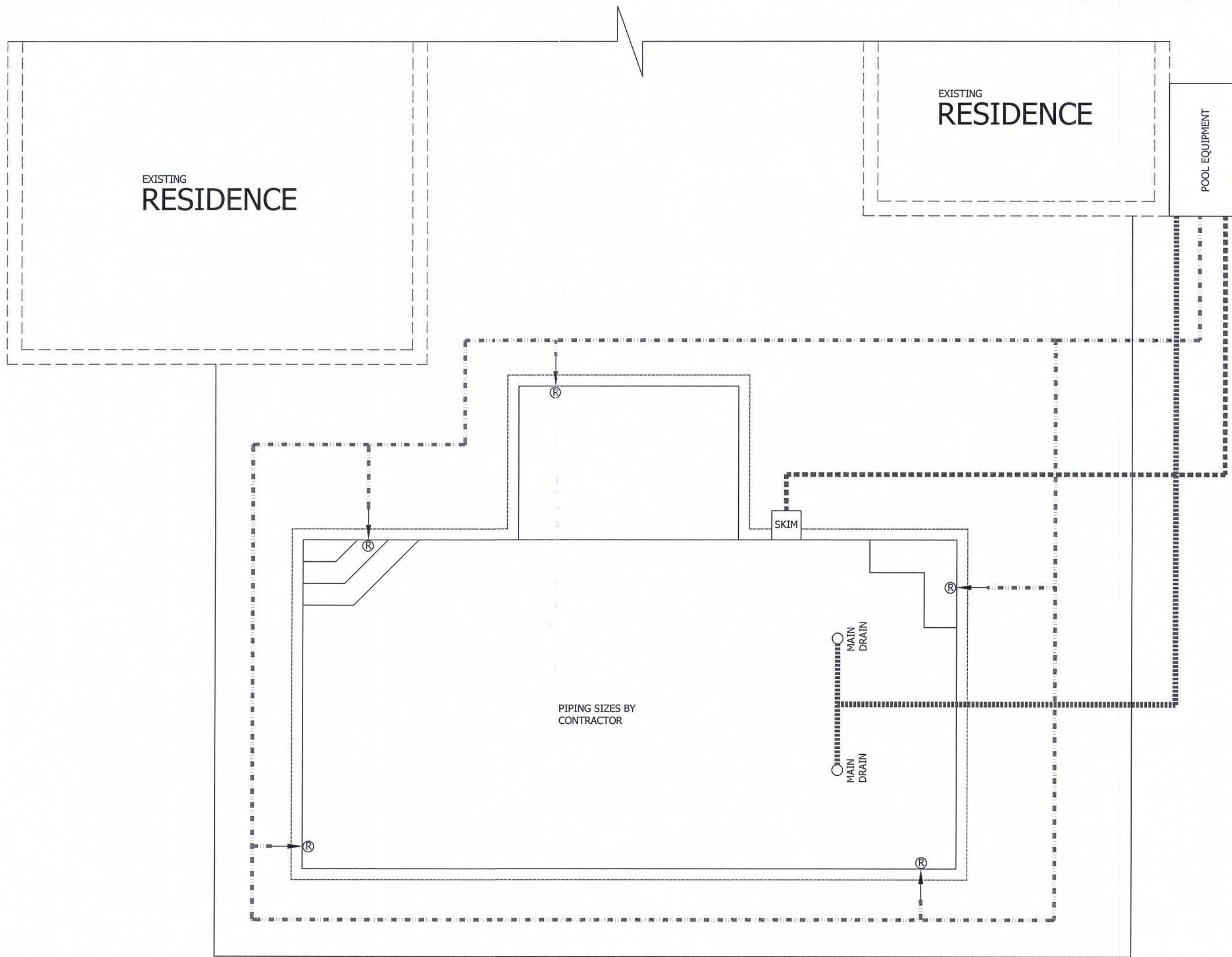


DIMENSIONING PLAN



PIPING PLAN

EQUIPOTENTIAL BONDING GRID:

ALL METAL PARTS SPECIFIED IN 680.26(B) MUST BE BONDED TO AN EQUIPOTENTIAL BONDING GRID WITH A SOLID COPPER CONDUCTOR NOT SMALL THAN 8 AWG. THE TERMINATION OF THE BONDING CONDUCTOR MUST BE MADE BY EXOTHERMIC WELDING, LISTED PRESSURE CONNECTORS, OR LISTED CLAMPS THAT ARE LABELED AS SUITABLE FOR THE PURPOSE. THE EQUIPOTENTIAL BONDING GRID MUST EXTEND UNDER PAVED WALKING SURFACES FOR 3 FEET HORIZONTALLY FROM THE WATER (680.26(C)).

THE EQUIPOTENTIAL BONDING GRID MUST BE FORMED FROM EITHER OR BOTH OF:

THE STRUCTURAL REINFORCING STEEL OF A CONCRETE PERMANENTLY INSTALLED POOL, OUTDOOR SPA, OR OUTDOOR HOT TUB, TIED TOGETHER BY THE USUAL STEEL TIE WIRES.

THE METAL WALLS OF A PERMANENTLY INSTALLED POOL, OUTDOOR SPA, OR OUTDOOR HOT TUB

THE EQUIPOTENTIAL BONDING GRID CAN BE CONSTRUCTED WITH 8 AWG BARE SOLID COPPER CONDUCTORS BONDED TO EA OTHER AT ALL POINTS OF CROSSING BY EXOTHERMIC WELDING, LISTED PRESSURE CONNECTORS OF THE SET SCREW OR COMPRESSION TYPE, LISTED CLAMPS, OR OTHER LISTED FITTINGS (250.8).

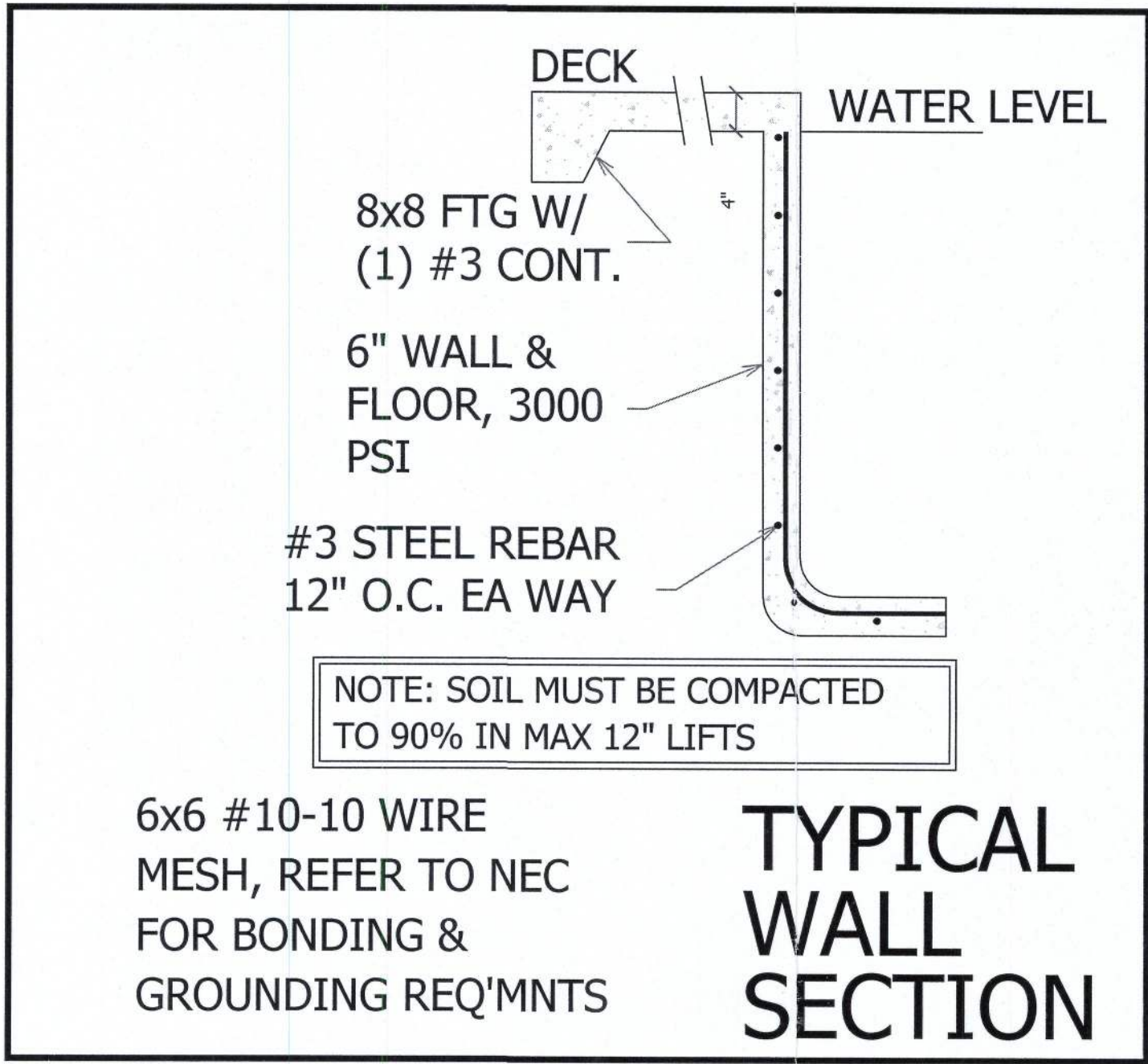
THE EQUIPOTENTIAL BONDING GRID MUST COVER THE CONTOUR OF THE PERMANENTLY INSTALLED POOL, OUTDOOR SPA OR HOT TUB AND DECK EXTENDING 3 FEET HORIZONTALLY FROM THE WATER. THE EQUIPOTENTIAL BONDING GRID MUST BE ARRANGED IN A 1-FOOT BY 1-FOOT NETWORK OF 8 AWG CONDUCTORS, WITH A TOLERANCE OF 4 INCHES.

EXCEPTION: THE EQUIPOTENTIAL BONDING GRID SHALL NOT BE REQ'D TO BE INSTALLED UNDER THE BOTTOM OR VERTICALLY ALONG THE WALLS OF VINYL LINED POLYMER WALL, FIBERGLASS COMPOSITE, OR OTHER POOLS CONSTRUCTED OF NON-CONDUCTIVE MATERIALS.

ANY METAL PARTS OF THE POOL, INCLUDING METAL STRUCTURAL SUPPORTS, SHALL BE BONDED IN ACCORDANCE WITH 680.26(B). POURED CONCRETE, PNEUMATICALLY-APPLIED CONCRETE, AND CONCRETE BLOCK SHALL BE CONSIDERED CONDUCTIVE MATERIAL

NOTE: IF ANY PART OF THE POOL ENCROACHES UPON THE ANGLE OF REPOSE, PLACE STEEL @ 6" o.c. EA WAY IN AREAS OF QUESTION

- NOTES:
1. ALL WORK IS TO COMPLY WITH ALL APPLICABLE CODES & ORDINANCES.
 2. CONSTRUCTED OF 3000 PSI CONCRETE OR EQUAL WITH #3 REBAR 12" O.C. EACH WAY, TIED AT EVERY OTHER INTERSECTION. MIN COVER FOR REBAR IS 2.5" MIN OVERLAP IS 18".
 - 3.N/A
 4. ASSUMED SOIL BEARING = 2 KSF
 5. CIRCULATION SYSTEMS, COMPONENTS, & EQUIPMENT SHALL COMPLY W/ NSF 50.
 6. INSTALL CONTROL JOINTS @ 20'-0" ON CENTER IN POOL DECKING.
 7. PLANS TO CONFORM TO NEC 2014
 8. FBC RESIDENTIAL 2017 6th EDITION APSP10
 9. CONCRETE STAIRS ARE 12" TREAD WIDTH AND 10" MAXIMUM HEIGHT
 10. ALL CONSTRUCTION SHALL COMPLY WITH ANSI 5-03, 2014 NEC ARTICLE 680, & ANSI-NSPI 3-99 IN-GROUND SPA CONSTR.
 - *11. ENGINEERS DESIGN IS FOR STRUCTURAL ONLY. DESIGN OF PIPING/EQUIPMENT ETC.
- POOLS MUST COMPLY w/ R4501.6.1 CONFORMANCE STANDARD DESIGN CONSTRUCTION AND WORKMANSHIP SHALL BE IN CONFORMANCE w/ THE REQUIREMENTS OF ANSI / NSPI 3; ANSI / NSPI 4; ANSI / NSPI 5; ANSI / NSPI 6; ANSI / APSP 7; ANSI / APSP 15 2010
- BY POOL CONTRACTOR
- FENCE REQUIREMENTS:
1. MINIMUM 48" HEIGHT
 2. 2" MAX VERTICAL CLEARANCE BETWEEN GRADE & BARRIER BOTTOM.
 3. MAX OPENING SHALL NOT ALLOW PASSAGE OF 4" SPHERE.
 4. FENCE POSTS WILL BE LOCATED ON POOL-SIDE OF FENCE.
 5. GATE WILL BE SELF-LOCKING WITH APPROVED LOCKING DEVICE.



Riddle Consulting Engineers, Inc.

structural civil mechanical

Paul D. Riddle, P.E.
Senior Engineer
COA: 00004759

Paul A. Riddle, Jr.
Structural Engineer

ADDRESS 1720 SE CITY HWY 484
BELLEVUE, FL 34420
PHONE (352) 245-7041
FAX (352) 245-9458
WEBSITE WWW.RIDDLEENGINEERING.COM

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ENGINEER'S SEAL

Aug 14 2019 10:21 AM

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PAUL D. RIDDLE, P.E.
P.E. 36989

REVISIONS, NOTES

A CUSTOM POOL DESIGN FOR
THE CAUDRUS RESIDENCE
AQUATIC ART

CONTACT INFORMATION

DRAWN: JASON R. RIDDLE

DATE 8/14/2019

SHEET DATA

SCALE 1/4" = 1'-0"

1 OF 1

JOB NUMBER 219 0376