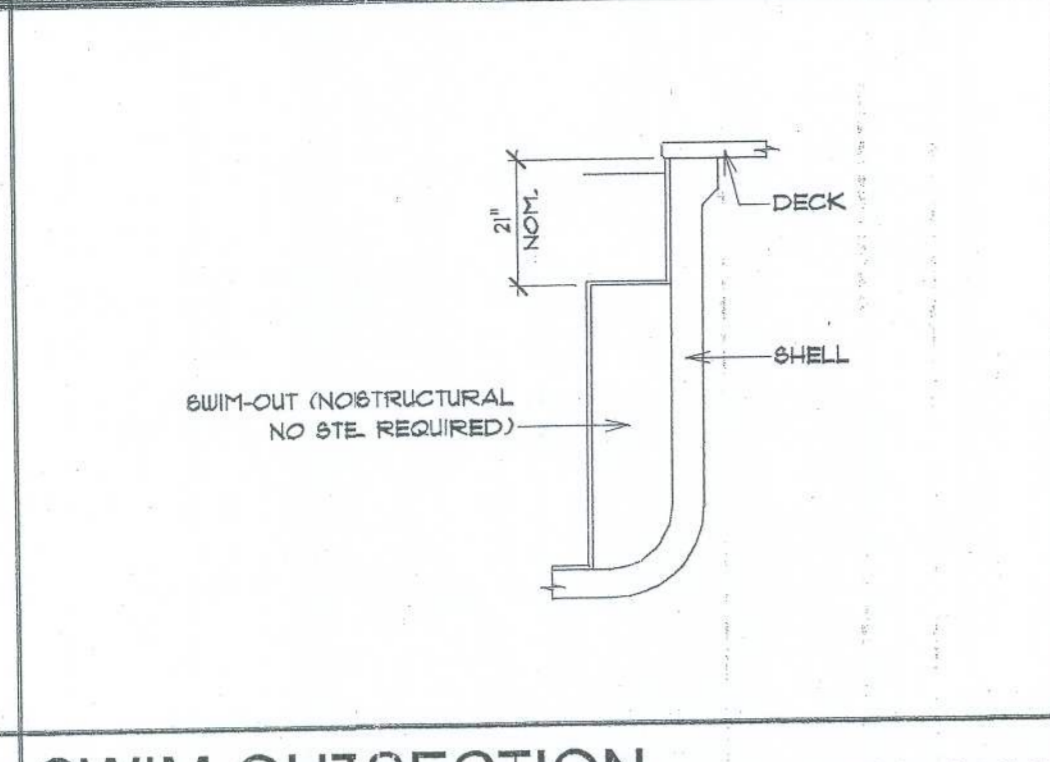
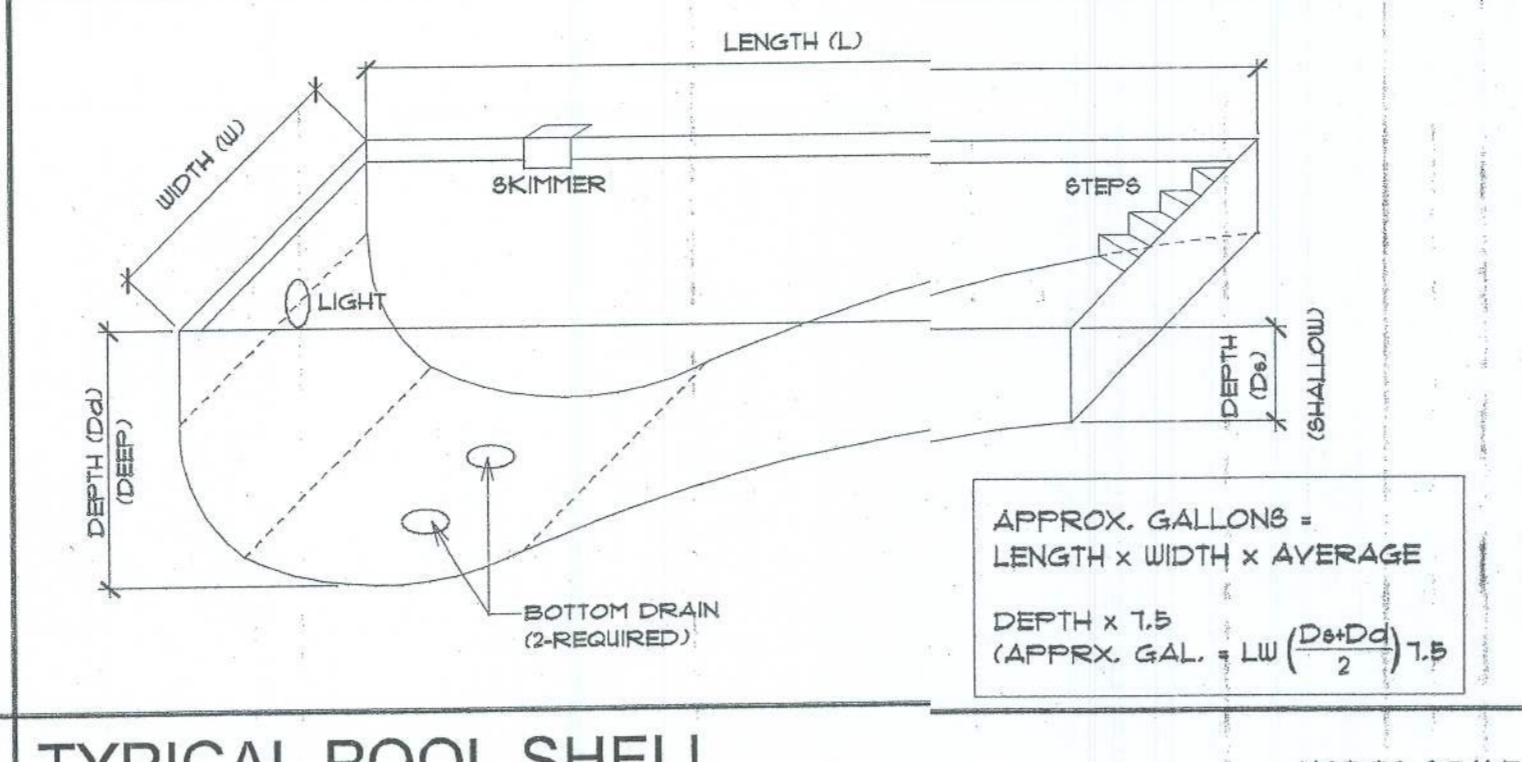


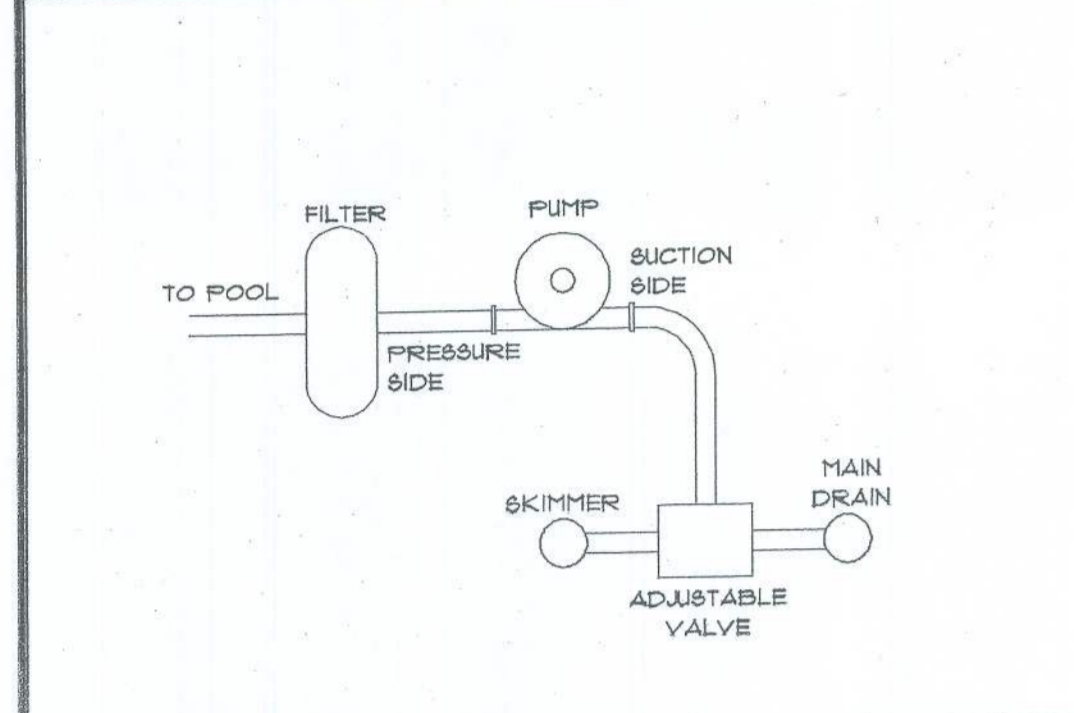
STEPS SECTION NOT TO SCALE



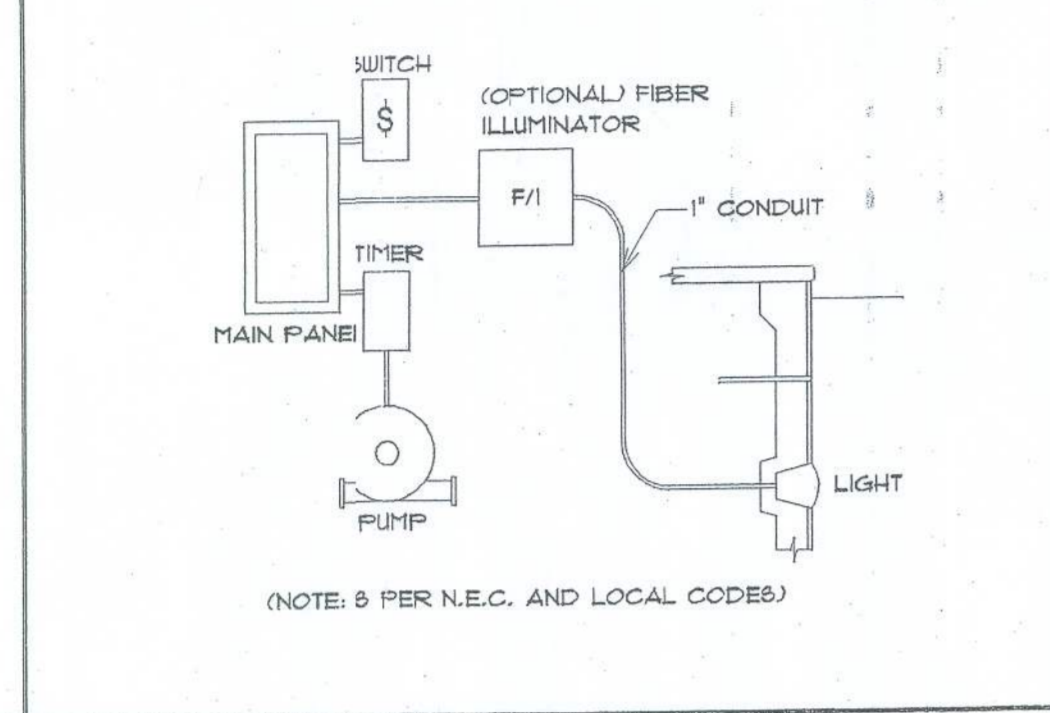
SWIM-OUTSECTION NOT TO SCALE



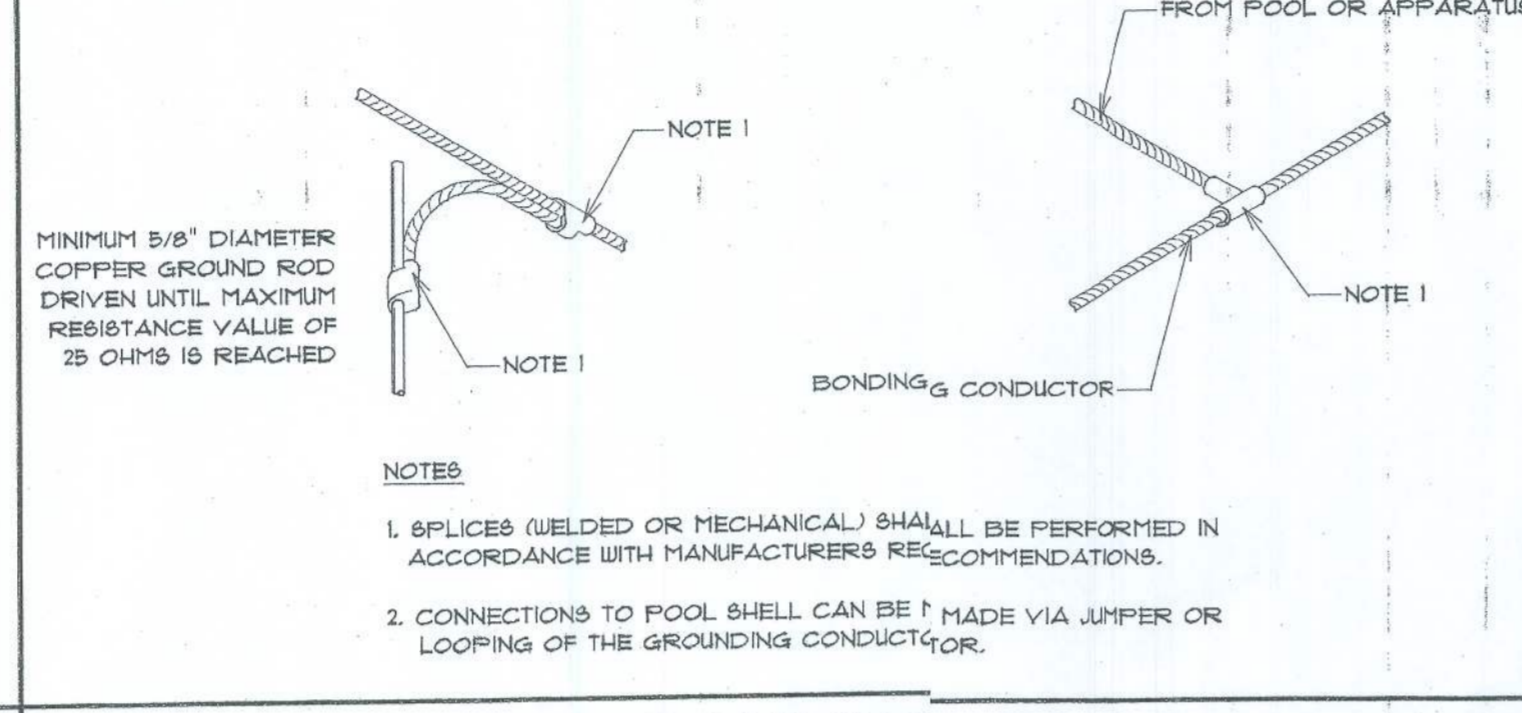
TYPICAL POOL SHELL NOT TO SCALE



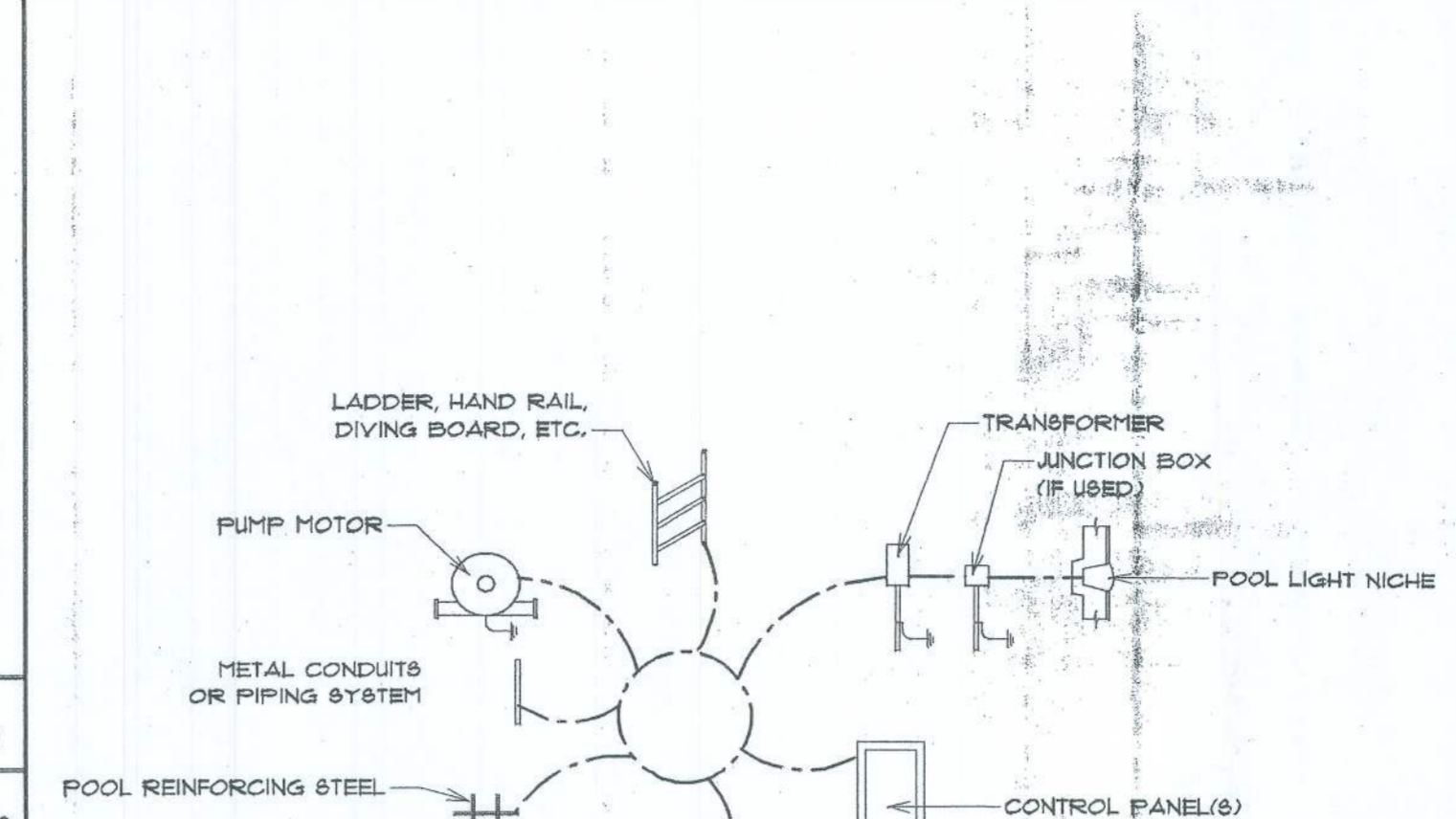
TYPICAL PLUMBING DIAGRAM



TYPICAL WIRING DIAGRAM

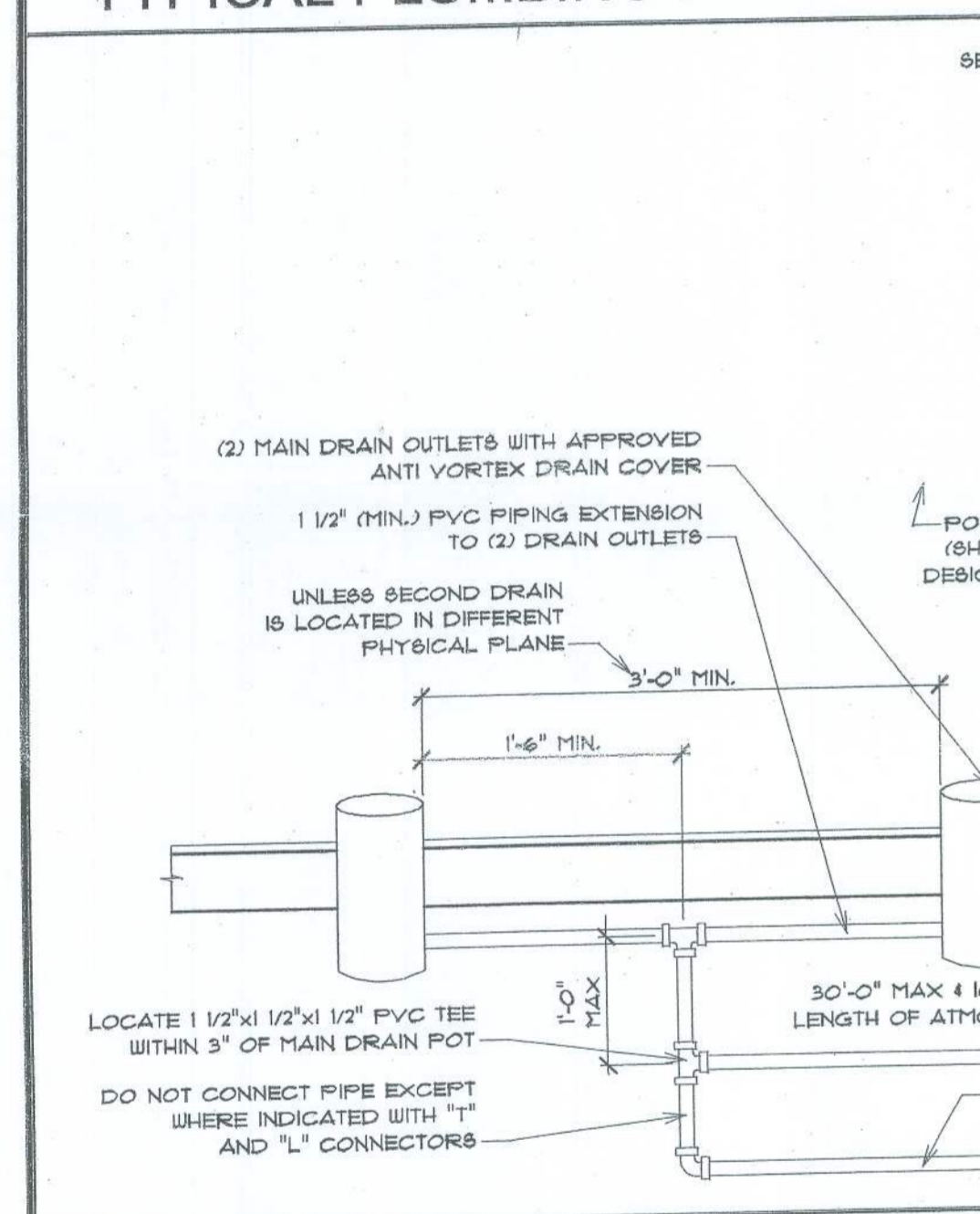


TYPICAL BONDING TYPES

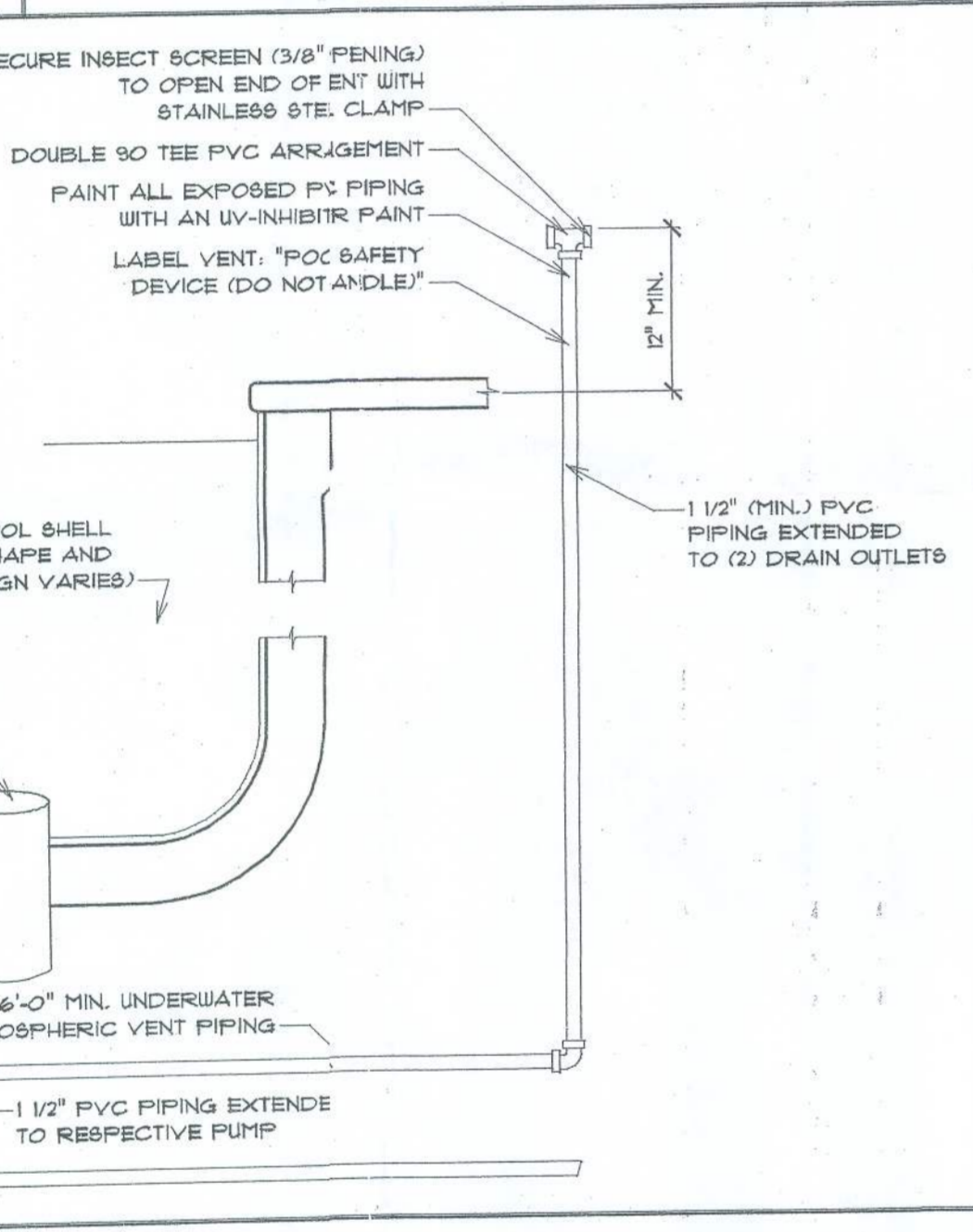


THE EQUIPOTENTIAL BONDING OF ALL CONDUCTIVE POOL SHELLS, PERIMETER SURFACES, METALLIC COMPONENTS, UNDERWATER LIGHTING, METAL FITTINGS, ELECTRICAL EQUIPMENT, AND METAL WIRING/CONDUITS SHALL BE IN ACCORDANCE WITH NEC 680.26, OR, AS ACCEPTED BY THE AUTHORITY HAVING JURISDICTION (AHJ)

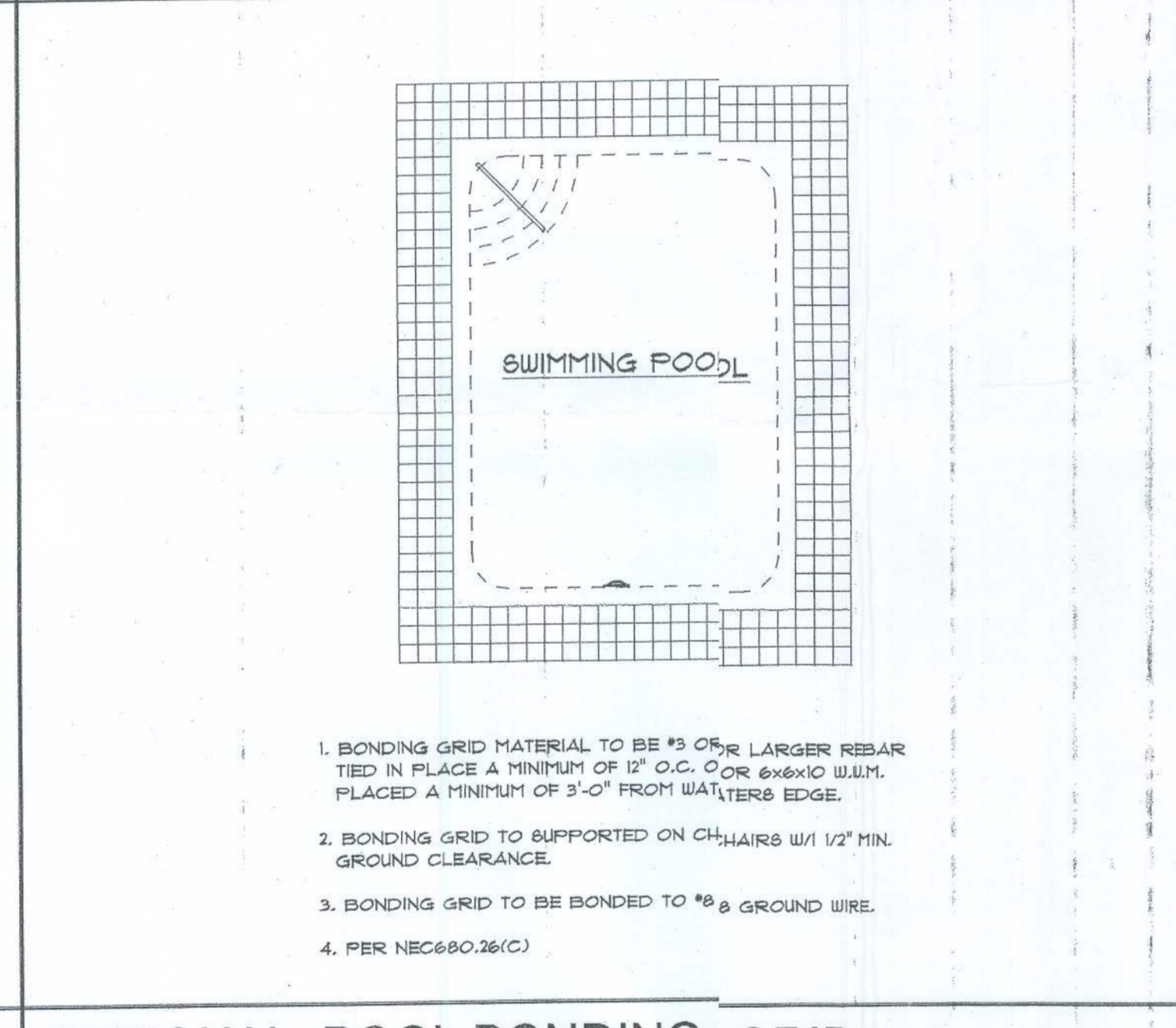
TYPICAL POOL BONDING SCHEMATIC NOT TO SCALE



DUAL MAIN DRAIN ATMOSPHERIC VENT SCALE: 1/2" = 1'-0"



OPTIONAL POOL BONDING GRID NOT TO SCALE

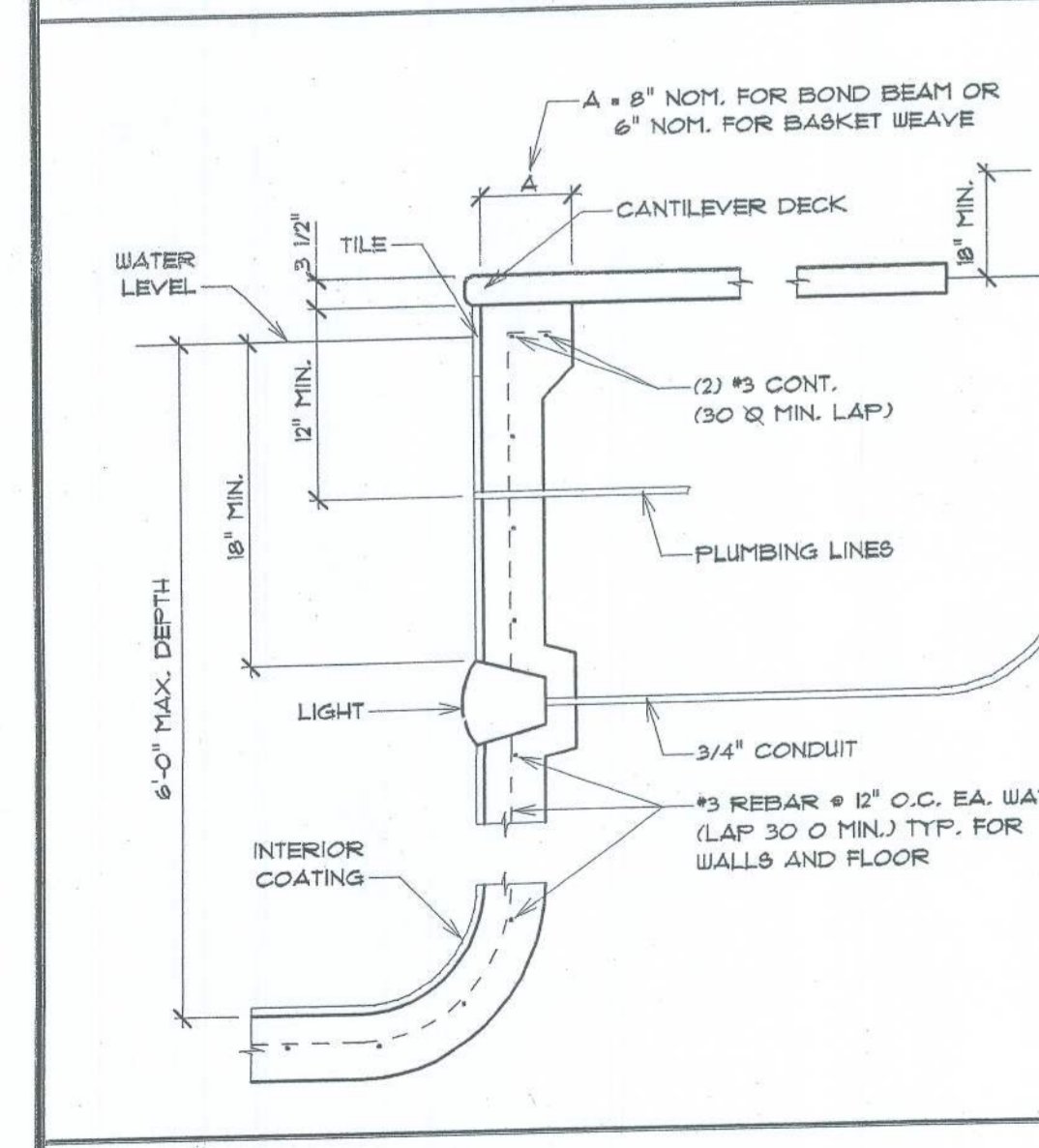


TYPICAL POOL BONDING PLAN NOT TO SCALE

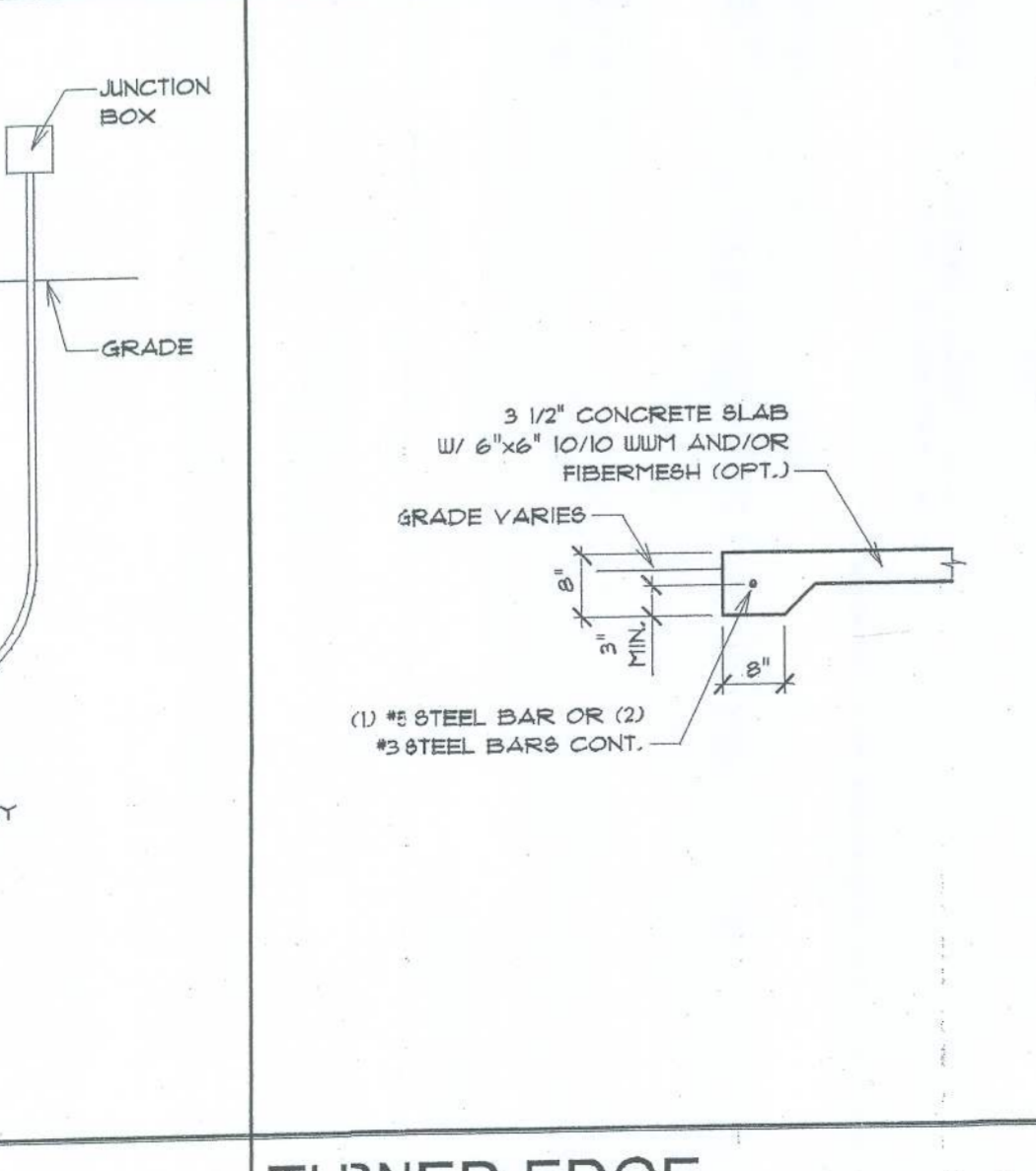
POOL BONDING NOTES

AMERICAN NATIONAL STANDARDS INSTITUTE
ANSI/NFPA - 3 1999 PERMANENTLY INSTALLED RESIDENTIAL SPAS
ANSI/NFPA - 5-03 STANDARD FOR RESIDENTIAL INGROUND SWIMMING POOLS
AMERICAN NATIONAL STANDARDS INSTITUTE
AMERICAN SOCIETY OF MECHANICAL ENGINEERS
2008 NATIONAL ELECTRICAL CODE
2004 FLORIDA RESIDENTIAL CODE - SECTION R4101.6

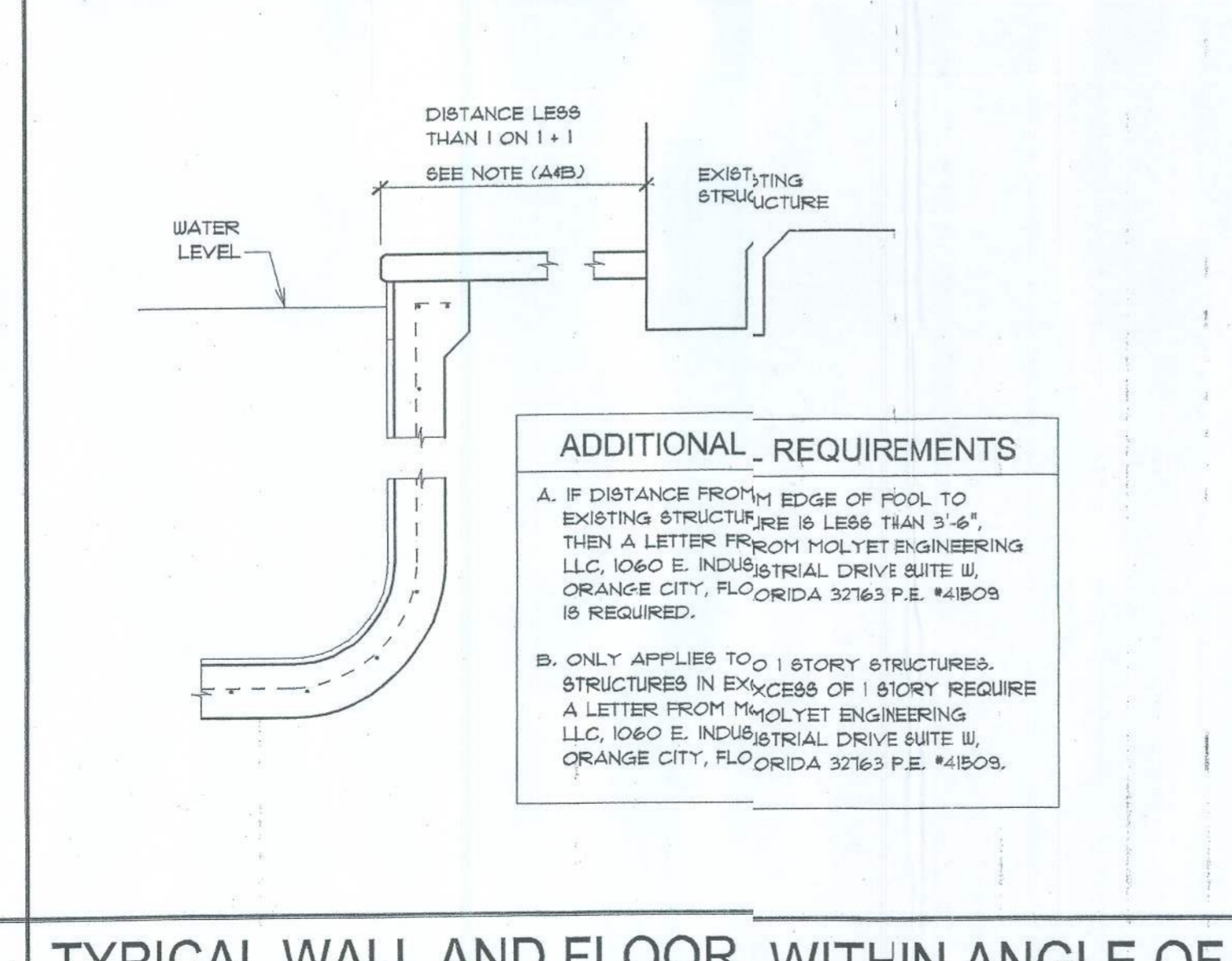
POOL BONDING NOTES



SECTION DETAIL SCALE: 1/2" = 1'-0"



TURNED EDGE SCALE: 1/2" = 1'-0"



TYPICAL WALL AND FLOOR WITHIN ANGLE OF REPOSE NOT TO SCALE

DETAIL NOTES

SHORING REQUIRED PRIOR TO EXCAVATION PRIOR TO APPLICATION OF SHOTCRETE/GUNITE. THE CONTRACTOR MUST PLACE ALL STEEL IN THE POOL WALL AT NO MORE THAN 6 INCHES ON CENTER IN BOTH DIRECTIONS IN THE CRITICAL AREA. THIS STEEL SHALL EXTEND 18" INTO COVER/BOTTOM. THE POOL SHELL WALL SHALL BE CONSTRUCTED AT 6" THICKNESS. STEEL MAT AND SHELL WALL SHALL BE EXTENDED ALONG THE CRITICAL AREA AND TO A POINT WHICH IS GREATER THAN THE MINIMUM REQUIRED DISTANCE AS DETERMINED BY THE 1 ON 1 + 1 RULE.

ADDITIONAL REQUIREMENTS

A. IF DISTANCE FROM EDGE OF POOL TO EXISTING STRUCTURE IS LESS THAN 3'-6", THEN A LETTER FROM MOLYET ENGINEERING LLC, 1060 E. INDUSTRIAL DRIVE SUITE 111, ORANGE CITY, FLORIDA 32763 P.E. #41809 IS REQUIRED.

B. ONLY APPLIES TO 1 STORY STRUCTURES. STRUCTURES IN EXCESS OF 1 STORY REQUIRE A LETTER FROM MOLYET ENGINEERING LLC, 1060 E. INDUSTRIAL DRIVE SUITE 111, ORANGE CITY, FLORIDA 32763 P.E. #41809.

SHELL NOTE

THIS FORMING METHOD ONLY APPLIES WHEN SHORING IS REQUIRED FOR ANGLE OF REPOSE VIOLATION

TYPICAL WALL AND FLOOR WITHIN ANGLE OF REPOSE NOT TO SCALE

1. BONDING CONDUCTOR SHALL BE #8 AWG BARE SOLID COPPER WIRE BURIED TO A MINIMUM DEPTH OF 4"-6" BELOW SUBGRADE, AND 18"-24" FROM INSIDE WALL OF POOL OR SPA.

2. ALL UNDERGROUND OR UNDER SLAB CONNECTIONS SHALL BE BY LISTED MEANS PER NEC 250.8. BONDING CABLES UNDER SLAB SHALL BE PLACED AT THE BOTTOM OF EXCAVATION.

3. WHEN REBAR IS UTILIZED FOR THE CONSTRUCTION OF PLANTERS AND FOOTERS ADJACENT TO THE POOL (WITHIN 5') THIS REBAR SHALL BE BONDED USING #8 AWG BARE SOLID COPPER CONDUCTOR BY LISTED MEANS PER NEC 250.8 TO THE BONDING CONDUCTOR.

4. LOCATION OF COPPER BONDING CONDUCTOR, BONDING JUMPERS, AND CONNECTIONS SHOWN ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL FIELD ROUTE TO DETERMINE EXACT LOCATION. BONDING CONDUCTOR SHALL CONFORM TO THE SHAPE OF THE POOL WHILE MAINTAINING SMOOTH RADIAL CURVES - NO 90 DEGREE RADII SHALL BE PERMITTED.

5. RESISTANCE OF THE GROUND SYSTEM SHALL NOT EXCEED 25 OHMS.

6. WHERE REQUIRED BY THE AHJ (NOT BY NEC), ALL GROUND RODS SHALL BE 5/8" COPPER CLAD STEEL, 6' LONG AND DRIVEN TO A DEPTH OF 18" BELOW FINISHED GRADE, MINIMUM. AND WHERE USED, SHALL BE BONDED USING #8 AWG BARE SOLID COPPER CONDUCTOR BY LISTED MEANS PER NEC 250.8 TO THE BONDING CONDUCTOR.

7. SPECIAL CASES MAY INCLUDE, BUT ARE NOT LIMITED TO, VANISHING EDGE POOLS, POOLS WITH PERIMETERS OF VARYING (VERTICAL) GRADES, DIMINISHED PERIMETER SURFACES LIKE EDGE PLANTERS, STOP RETAINING WALLS, AND ZERO-LOT LINES. IN THESE CASES, THE BONDING CONDUCTOR SHALL BE INSTALLED IN ACCORDANCE WITH NEC 680.26, NOTE 1 (ABOVE), AND DIRECTION FROM THE AUTHORITY HAVING JURISDICTION (AHJ). THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE BONDING WITH THE AHJ IN THE DETERMINATION OF ITS APPLICATION OF THE NEC.

8. COPPER BONDING CONDUCTOR SHALL BE BONDED TO THE POOL AND SPA REBAR AS SHOWN. 4 LOCATIONS, MINIMUM AT EACH SEPARATE BODY OF WATER, USING A #8 AWG BARE SOLID COPPER CONDUCTOR. FOR NON-CONDUCTIVE POOL SHELLS, BONDING AT 4 POINTS SHALL NOT BE REQUIRED.

9. COPPER BONDING CONDUCTOR SHALL BE BONDED TO THE EQUIPMENT GROUND OF THE POOL PUMP MOTOR AND OTHER ELECTRICAL COMPONENTS AS REQUIRED BY NEC 680.26 (VERIFY LOCATIONS) USING #8 AWG BARE SOLID COPPER WIRE.

10. COPPER BONDING CONDUCTOR SHALL BE BONDED TO ALL METALLIC COMPONENTS OF THE POOL AND SPA, AND METAL STRUCTURES, INCLUDING, BUT NOT LIMITED TO, ALL HANDRAILS, DIVING BOARDS, AND LADDER GRABRAILS IN THE POOL AND SPA AND INCLUDE ALL METAL WIRING AND ALL FIXED METAL PARTS THAT ARE WITHIN 5' HORIZONTALLY OF THE INSIDE WALL OF THE POOL (SPA) AND 12' VERTICALLY ABOVE THE MAXIMUM WATER LEVEL OF THE POOL USING #8 AWG BARE SOLID COPPER WIRE.

11. ALL POOL AND SPA LIGHTING NICHES SHALL BE BONDED TO POOL AND SPA REBAR PER NEC 680.26. THE COPPER BONDING CONDUCTOR SHALL BE BONDED TO THE REBAR AT BOTH THE POOL AND THE SPA, PER NOTE B, ABOVE, WHICH SHALL IN TURN PROVIDE BONDING OF THE LUMINAIRE NICHES.

12. ELECTRICAL CONTRACTOR SHALL CALL FOR THE INSPECTION OF THE BONDING OF THE POOL AND ITS PERIMETER SURFACES PRIOR TO COVER-UP OF THESE AREAS.

APPLICABLE CODES

AMERICAN NATIONAL STANDARDS INSTITUTE
ANSI/NFPA - 3 1999 PERMANENTLY INSTALLED RESIDENTIAL SPAS
ANSI/NFPA - 5-03 STANDARD FOR RESIDENTIAL INGROUND SWIMMING POOLS
AMERICAN NATIONAL STANDARDS INSTITUTE
AMERICAN SOCIETY OF MECHANICAL ENGINEERS
2008 NATIONAL ELECTRICAL CODE
2004 FLORIDA RESIDENTIAL CODE - SECTION R4101.6

GENERAL NOTES

1. POOL MUST MEET CODE SETBACK REQUIREMENTS.

2. COMPACTION TEST IS NOT REQUIRED EXCEPT WHEN POOL IS PLACED ON FILL. (COMPACTION SHALL BE 95% OF SOIL DENSITY)

3. REINFORCING STEEL BARS - ASTM A15-58T & A305-58T TO BE GROUND.

4. ALL REINFORCING BARS, POOL & METAL DECK EQUIPMENT TO BE GROUND.

5. WALLS & FLOOR - PNEUMATICALLY PLACED OR MACHINE MIXED CONCRETE. (GRADE A, 2500 P.S.I. @ 28 DAYS) WALLS & FLOOR: 6" THICK (MIN.)

6. 3 1/2" THICK CONCRETE DECKING AROUND POOL TO BE REINFORCED WITH 6x6 WELDED WIRE MESH AND/OR FIBER MESH AND/OR #3 REBAR (MIN.) AT 24" O.C.

7. SEE PUMP & FILTER DATA SHEET FOR HYDRAULIC REQ.

8. ANY VARIATION OF STANDARD POOL CRITERIA MUST BE ACCOMPANIED BY LETTER FROM A LICENSED ENGINEER.

9. CONSTRUCTION MUST ADHERE TO FLORIDA RESIDENTIAL CODE SECTION R4101 REGARDING BARRIER REQ.

10. ALL POOLS EXCEEDING 8' OF DEPTH WILL REQUIRE SUPPLEMENTAL ENGINEERING.

11. NO DIVING BOARDS OR SLIDES

12. APPLIES TO BOTH POOLS AND SPAS

13. SYSTEM IS DESIGNED AND TESTED AT 60 GAL./MIN., 6 FEET PER SECOND.

14. THESE PLANS MAY BE USED FOR MASTER FILE PURPOSES.

15. THIS DESIGN HAS BEEN TESTED TO BE IN COMPLIANCE WITH FLORIDA RESIDENTIAL CODE SECTION R4101.6.3 MAXIMUM VACUUM DOES NOT EXCEED 4 1/2" OF MERCURY AND IS RELEASED IN LESS THAN 3 SECONDS.

16. THIS ENGINEERING EXPIRES ON 7.8.09 OR UNTIL SUPERCEDED BY NEW CODE, WHICHEVER OCCURS FIRST.

GENERAL NOTES

Molyet Engineering LLC
Bryan A. Molyet P.E. (FL 041959)
Civil Engineer, License No. 00000002
1000 East Colonial Avenue, Suite 100
Orlando, FL 32817

RESIDENTIAL DESIGN

SWIMMING POOL
Pool Contractor: *Entravase Pool Company of Leesville*

License No. TSI No.

DATE: December 03, 2007
DRAWN BY: T.J.B.

SHEET NO: **P-1**