



**CONCRETE NOTES**

1. CODES AND STANDARDS (LATEST EDITION WITH CURRENT AMENDMENTS): ACI 301-"SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI 318-"BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". COMPLY WITH APPLICABLE PROVISIONS, UNLESS OTHERWISE INDICATED.
2. ALL CONCRETE TO BE 4000 PSI @ 28 DAYS. 3/4" AGGREGATE. MAXIMUM WATER/CEMENT RATIO = 0.45, SLUMP 1" MINIMUM AND 3" MAXIMUM. USE A MID-RANGE WATER REDUCER IF A HIGHER SLUMP IS DESIRED. 6% AIR ENTRAINMENT FOR ALL WALLS, FOOTINGS, AND EXTERIOR SLABS. NO ENTRAINMENT AIR FOR INTERIOR SLABS.
3. CALCIUM CHLORIDE AND/OR MATERIALS CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.
4. CONCRETE CURING: USE WET BURLAP METHOD WITH POLYETHYLENE COVER. PROVIDE MINIMUM 7 DAY WET CURE. CONFORM TO ACI 302-IR GUIDE FOR CONCRETE SLAB AND FLOOR CONSTRUCTION.
5. CONCRETE SLAB CONTROL JOINTS: MAX. 10'-0"x10'-0" SQUARES, RATIO CAN BE 1:1.5 MAX.
6. PROVIDE 3-#4x3'-0" BARS AT A 45 DEGREE ANGLE AT ALL INSIDE CORNERS IN SLAB (RE-ENTRANT CORNER).
7. NO CONCRETE TO BE PLACED ON FROZEN GROUND.
8. COMPLY WITH ACI 305 FOR ALL HOT WEATHER CONCRETE PLACEMENTS.
9. COMPLY WITH ACI 306 FOR ALL COLD WEATHER CONCRETE PLACEMENTS.
10. REINFORCEMENT ASTM A615, GRADE 60; NEW DEFORMED BARS.
11. REINFORCEMENT SHALL HAVE THE FOLLOWING MINIMUM CONCRETE COVER UNLESS OTHERWISE NOTED:
  - A. CONCRETE DEPOSITED ON GROUND: 3"
  - B. CONCRETE EXPOSED TO THE GROUND OR WEATHER: 2"
  - C. CONCRETE NOT EXPOSED TO THE GROUND OR WEATHER: 2"
12. ALL REINFORCEMENT TO BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE "ACI MANUAL OF STANDARD PRACTICE" (ACI-315), LATEST EDITION.
13. ALL LAP SPLICES SHALL BE CONSIDERED CLASS B TENSION LAP SPLICES UNLESS OTHERWISE NOTED.
14. ALL SLABS-ON-GRADE TO SHALL BE REINFORCED WITH #6-1.4xW1.4, UNLESS OTHERWISE NOTED. PROVIDE CONCRETE BRICK SEATS (NOT CLAY) @ 3'-0" O.C. EACH WAY FOR SUPPORT.
15. SLAB REINFORCEMENT TO BE LOCATED AT MID-DEPTH OF CONCRETE SLABS UNLESS OTHERWISE NOTED.
16. CHAMFER ALL EXPOSED CONCRETE EDGES 1/4".
17. ALL WOOD NAILERS AND/OR SILLS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED #2 GRADE SOUTHERN PINE OR BETTER.
18. WATERPROOF (WATERSTOP) BETWEEN ALL BASEMENT FOUNDATION WALLS AND FOOTINGS, AND AT CONTROL JOINTS BETWEEN CONCRETE PLACEMENTS WITH A STRIP OF BENTONITE MANUFACTURED BY AMERICAN COLLOID CORPORATION, ARLINGTON HEIGHTS, IL, UNDER THE TRADE NAME RX102.
19. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING AND/OR BRACING REQUIRED UNTIL ALL CONCRETE HAS REACHED ITS FULL DESIGN STRENGTH.
20. REINFORCING OR ADDITIONAL ENGINEERING AS REQUIRED BY SITE CONDITIONS AND/OR LOCAL BUILDING CODES IS RESPONSIBILITY OF THE BUILDER AND/OR OWNER.

**SILLS AND ANCHOR BOLTS:**

1. ANCHOR BOLTS AT WOOD FRAMED WALLS:
  - A. STANDARD ZINC COATED 5/8" DIA. SIMPSON TITEN HD ANCHORS (SCREW TYPE), NO EXCEPTION.
  - B. SPACE ANCHORS @ 2'-8" O.C.; EXCEPT SPACE @ 1'-4" O.C. MAXIMUM AT SHEAR WALL "SW2" AND LOCATE WITHIN 4" MINIMUM / 12" MAXIMUM FROM EACH END OF EACH SECTION AND ALSO AT ALL DOOR JAMBS AND CORNERS.
  - C. ANCHORS TO EXTEND A MINIMUM OF 6" INTO CONCRETE OR MASONRY.
  - D. PROVIDE STANDARD GALVANIZED WASHER BETWEEN ALL ANCHOR BOLT NUTS AND BEARING PLATES. (SEE ITEM E BELOW)
  - E. PROVIDE SIMPSON STRONG-TIE BPS/8-3 HOT DIPPED GALVANIZED (HDG) BEARING PLATE BETWEEN ALL ANCHOR BOLT NUT/WASHER AND SILL PLATE.
2. PROVIDE (1) 2x6 PT SILL ALL FRAMED WALL LOCATIONS.
3. PROVIDE (1) 2x6 PT SILL AT 1ST FLOOR LEDGER FOUNDATION WALL BONDOUT WITH ANCHOR SPACING @ 4'-0" O.C.
4. ANCHOR BOLTS ARE BY BUILDER.

**FOUNDATION NOTES**

1. ALL FOUNDATIONS HAVE BEEN DESIGNED BASED ON AN ASSUMED SOIL BEARING PRESSURE OF 1,500psf.
2. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 4'-6" BELOW FINISHED GRADE.
3. SUBGRADE EXCAVATIONS TO BE KEPT DRY.
4. THE BOTTOM OF ALL INTERIOR FOOTINGS SHALL BEAR ON UNDISTURBED NATIVE SOIL, COMPACTED STRUCTURAL FILL, COMPACTED CRUSHED STONE, OR CLEANSOUND DURABLE LEDGE.
5. BEFORE PLACING CONCRETE FOR SLABS, EXISTING SOIL MATERIALS SHALL BE REMOVED AND REPLACED WITH A MINIMUM OF 6" OF COMPACTED STRUCTURAL FILL TO THE APPROPRIATE ELEVATION. STRUCTURAL FILL TO BE COMPACTED TO MINIMUM 95% OF ITS MAXIMUM DRY DENSITY, PER ASTM D1557. OPTION: USE 3/4" CRUSHED STONE AND COMPACT TO 100% OF ITS DRY RODDED WEIGHT PER ASTM.
6. IF ADEQUATE SOIL BEARING IS NOT ENCOUNTERED AT THE INDICATED BOTTOM OF FOOTING FOUNDATION, THE CONTRACTOR IS TO REPORT TO THE ENGINEER BEFORE PROCEEDING WITH THAT PART OF WORK.
7. ALL EXISTING FILL, ORGANIC, WASTE, TOPSOIL, FROZEN MATERIALS, AND DELETERIOUS MATTER SHALL BE REMOVED FROM BELOW FOOTINGS AND SLABS AND REPLACED WITH COMPACTED STRUCTURAL FILL.
8. DO NOT PLACE BACKFILL AGAINST BASEMENT FOUNDATION WALLS UNTIL THE FIRST FLOOR STRUCTURE HAS BEEN CONSTRUCTED.
9. SEE FOUNDATION PLAN FOR ALL TOP OF WALL AND SHELF ELEVATIONS.
10. ALL DRAINAGE FILL TO BE 3/4" WASHED CRUSHED STONE.
11. ALL DRAINAGE PIPE TO BE SLOPED POSITIVELY AT LEAST 2% AND EXTEND TO DAYLIGHT AT GRADE, UNLESS OTHERWISE NOTED ON PLANS.
12. PROVIDE RIGID DRAINAGE PROTECTION BOARD AT ALL FOUNDATION WALLS WITH WATERPROOFING SYSTEM PRIOR TO BACKFILLING WALLS.

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