

PEAKS ISLAND- CAST IN PLACE CONCRETE FOOTINGS STEPS & PROCEDURES

- *DIGGING OF HOLES*
 - Location of Footings will be determined by plans and specifications and field measurements
 - All holes for the footings are to be hand dug to minimize soil disruption
 - All Holes will be dug to a minimum depth of 48” below grade, or until ledge is encountered, whichever comes first
 - Holes will be dug at a diameter of 12”
 - At approximately 36” depth, holes were “belled-out” to a diameter of 18” for a depth of 8”
 - Bottoms of holes are to be hand tamped before concrete is added
- *POURING OF FOOTINGS*
 - Concrete will be mixed in a powered mixer on site
 - Pre-mixed bags of concrete and aggregate will be used
 - Aggregate contained concrete sand and 3/8” pea stone
 - Water will be added until mix reached an approximate 2-3” slump
 - Concrete mix meets or exceeds ASTM C387 standards, with a 4,000 PSI strength at 28 days
 - Concrete will be poured into the holes from a maximum height of 48” to minimize separation
 - Approximately 12” of concrete will be added to the hole and then 36” of sono-tube was placed on top, leveled and dirt will be back filled around
 - Back fill will be compacted every 6”
 - Once approximately half of the sono-tube is filled, the concrete will be hand vibrated for 10 seconds
 - Remaining concrete will be added, vibrated and screen level
 - Approximately 3.3 80lb bags of sakrete was used per hole, at an average of 2.18 cubic feet(or .08 cubic yards)
 - 1/2” Galvanized Concrete Wedge Anchor Bolts will be added