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Date: Jan 15, 2010

**DESCRIPTION OF CONSTRUCTION
SPECIFICATIONS FOR "POOL SHAPE 7
SWIMMING POOL AND SPA**

DATE:

CUSTOMER:

ATTN: Please bid the following work for;

RE:

Pool Dimensions:

Width	17'0"
Length	33'0"
Surface Area	570 sq' ft.
Perimeter	100 lf. (including spa)
Depth	3'6" – 7'0"

Spa Dimensions:

Maximum Width	7'0"
Maximum Length	7'0"
Surface Area	40 sq' ft.
Depth	3'6"
Wall Length	10'0"
Wall Thickness	11"

Owner responsible for all Permits, Engineering, Inspection requests. Fence, Gate and Alarm requirements.

Standard Bobcat Excavation Requirements: (Minimum access requirements 74"0'):

1. **Owner** responsible for contacting *Underground Service Alert* to identify utilities.
2. Access wall of fence to be removed by: _____ Replaced by: _____
3. Layout pool per site plans and specifications for approval by **Buyer**.
4. $\frac{1}{2}$ **hour pre grade for forms ONLY**
5. Shallow end ramp
6. **All stumps, trunks, limbs, sod, extra grading and concrete at additional cost if necessary.**
7. All excavated soil hauled off site day of excavation only.

Special Notes:

- Hard rock areas may require a breaker or rock splitting and will require a pre Bid per job/or hourly basis
- Water table areas may require a mini excavator and will require a pre-bid per Hour basis.
- Water tables require over excavation and $\frac{3}{4}$ " rock floor, a pre-bid required per load delivered and installed.
- Excavator not responsible for cave-in of soil due to water table or rainfall.
- Excavator not responsible for replacing or replanting landscaping.
- Excavator not responsible for damage to utilities. driveways, structures, walls, sidewalks, concrete, sprinklers or sewer lines.
- Owner is responsible for soils analysis and geology reports if/as required.
- Owner approved layout, elevation on day of excavation.
- Additional work required because of existence of conditions described under "Responsibility of Buyer" and any required soils or engineering reports are at sole expense of Buyer.

STEEL REINFORCING: Contractor responsible to furnish all necessary materials and labor to install reinforcing steel in swimming pool and/or spa according to engineering provided and local building codes.

8. Owner to provide appropriate engineering from Pool Engineering, Inc. for pool construction.
9. 7'0" x 7'0" attached spa
10. Double curtain spa wall / Elevated + 12"
11. Two 5' loveseat per plan
12. 12' baja entry / extended second step
13. Two (2) underwater pool lights
14. 10' x 6" raised bond beam
15. 50' x 12" raised bond beam
16. Surcharge raised bond beam per detail #11 as required
17. Notch raised bond beam for one 18" sheer descent
18. Expansive soils schedule standard plan detail #1
- 19. Special engineering at addition cost if required.**

PLUMBING OUTLINE INCLUDES: Contractor responsible to furnish all necessary materials and labor to install plumbing in swimming pool and/or spa according to UPC code and local building codes.

21. Auto fill line (MP Style) with PVB valve from nearest hose bib
22. One (1) pool surface skimmer with 2 ½" suction
23. 2 ½" main drain from deep end of pool to skimmer
24. Install separate suction line for pool cleaner with Jandy valve
25. Three (3) pool returns, one continuous loop for efficient water circulation and jandy valve to sheer descent
26. 2 ½" spa suction, 2 ½" return and 2" air line thru jets / common manifold
27. Eight (8) standard spa jets installed at various elevations
28. 2" spa bypass with Jandy valve for spillway
29. Two (2) Light niches (1 in pool , 1 in spa)
30. 2" polyethylene gas line run, tie into existing per plan to heater
31. Connect gas line at meter and heater, leave in off position until start up
32. Two (2) ¾" gas line risers for barbeque and fire pit per plan
33. Set pool equipment on placed slabs
34. Install "IntelliChlor[®]" salt chlorinator
35. All bonding required

ELECTRICAL OUTLINE INCLUDES: Contractor responsible to furnish all necessary materials and labor to install electrical for swimming pool and/or spa according to UEC code and local building codes.

36. Install "Pentair" Power center sub panel (equipment supplied by H.O.)
37. Install conduit and wire from main to pool and spa lights
38. 220V circuit for circulation pump
39. 220V circuit for booster pump
40. 220V circuit for electronic heater ignition
41. 110V GFCI protected circuit for pool and spa lights
42. 110V GFCI protected circuit at barbeque location and near access pad
43. 110V GFCI protected circuit for three (3) lamp lights (lamps and install by H.O.)
44. Install ground wire and potting compound for two (2) Pool light niches per plan
45. Install necessary electrical conduits and wire pool equipment
46. Pull and wire all lights to J-box and verify illumination

EQUIPMENT OUTLINE INCLUDES: Owner responsible to furnish all necessary equipment for swimming pool and/or spa.

46. 400,000 BTU Pentair electronic heater
47. "Pentair" Intelli-touch Power center sub panel, spa side control and valve actuators.
48. 48sq' "Pentair" cartridge filter
49. Pentair IntelliFlo VS SVRS pool circulation pump
50. Pentair 2 HP wisperflow spa booster pump
51. Pentair "The IntelliChlor[®] Salt Chlorinator" system

- 52. Jandy "Navigator" pool vac, hose kit and vac lock
- 53. One (1) 18" extended lip convex 9'R sheer descent
- 54. One (1) 500w standard underwater pool light
- 55. One (1) 100w standard underwater spa light

GUNITE POOL AND SPA OUTLINE INCLUDES: Contractor responsible to furnish all necessary materials and labor to apply "Gunite" for swimming pool and/or spa according to superior industry standards and per required engineering.

- 53. 2000psi Gunite
- 54. Tarp all walls, fences and structures
- 55. Insure weep hole at lowest level. Provide for umbrella cup on Baja ledge.
- 56. Provide two locations at depth break for future rope rings
- 57. All steps and seat nose edge to be radius for pebble plaster
- 58. Remove all rebound for pool, not to be used as step fill
- 59. Re adjust pressure to house if increased by contractor
- 60. Break up all placed rebound, NO REBOUND USED IN POOL, including steps.

TILE, COPING, MASONRY OUTLINE INCLUDES: Contractor responsible to furnish all necessary materials and labor to install tile, coping and masonry for swimming pool and/or spa according to superior building standards and local building codes.

- 61. 6" band water line tile and 6",12" raised bond beam (tile and grout by owner)
- 62. Apply two coats thorseal on spa and all raised bond beams
- 63. 12" raised fire pit stucco face, cap to match coping
- 64. 110 Lineal feet washed finish coping swimming Pool/spa, fire pit and steps.
(Bid optional Quartzsite placed stone coping).
- 65. Flexible mastic joint between coping and decks, color coordinate decking.
- 66. 4' high stucco face equipment screen wall, color and texture to match house
- 67. Three (3) 18" dia. Poured base per plan for future lights, stub ¾" conduit in center

GRADING, DECKING & MASTIC OUTLINE INCLUDES: Contractor responsible to furnish all necessary materials and labor to grade, install decking, drains and mastic for swimming pool and/or spa according to superior building standards and local building codes.

- 68. All trash including rebound, drywall and pool forms removed
- 69. Shade with sand and back fill all trenches and fine grade for decks
- 70. Compact gas line trench to 98% compaction
- 71. 100' of 3" deck drains and down spouts tied into existing & rain gutters
- 72. Install drain heads outside decks as necessary
- 73. All drain lines ran to street / Core curb as necessary
- 74. All excess soil hauled offsite
- 75. Verify fill line and maintain 35psi on equipment and 15psi on gas lines at all times
- 76. Compact and install 2" gravel sub base for all decking and walkways
- 77. Verify drain elevations and locations per site requirements

78. Tie #3 rebar at 18" o.c. throughout new decks and walkways
79. All required bonding from pool to deck steel
80. Install surface skimmer ring in deck, Lid color to coordinate concrete color
81. Install expansion foam on foundation, coping and walls as necessary
82. Install plastic securely over coping for protection during decking pour
83. Pour 1200 (est) square feet 6 ½ sack mix standard 3½ inch thick natural concrete
84. Install 40' 36" high slumpstone wall w/mud roll cap

PLASTER POOL AND SPA OUTLINE INCLUDES: Contractor responsible to furnish all necessary materials and labor to apply plaster to swimming pool and/or spa according to superior industry standards and local building codes.

85. Install plastic securely over coping and decks for protection during application
86. Prepare and seal all light niches, inlet and outlet pipes
87. Install aim flows, rope rings and main drain covers. (color to compliment plaster choice.)
88. Supply and Install umbrella holder in Baja step, (color to compliment plaster choice.)
89. Apply "Pebble Coat" mini rock color choice by owner
90. Provide final clean up.