Daahoud Owners Manual

James M Harrison, Artist

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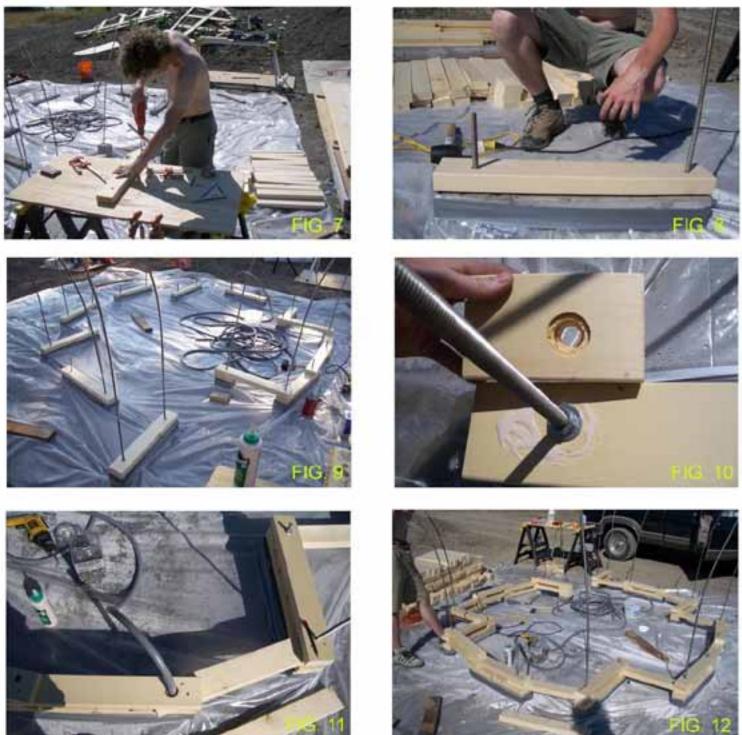
These images show the builing of the footing for Daahoud. Figure 1 - Forming the slab. Figure 2- template used to transfer location of concrete 'teeth' that will support wood sculpture. Fig 3- Formwork for 'teeth' being located- note hole in center of slab fro drainage. Fig 4- detail showing rebar, threaded rod, and conduit being located. Fig 5- completed footing covered with dirt. Note conduit for lighting, anchor bolts, and threaded rods for wind shear. Refer to Engineer's Report for details. Fig 6- Plastic sheeting covering the work area and carefully cut around each 'tooth'

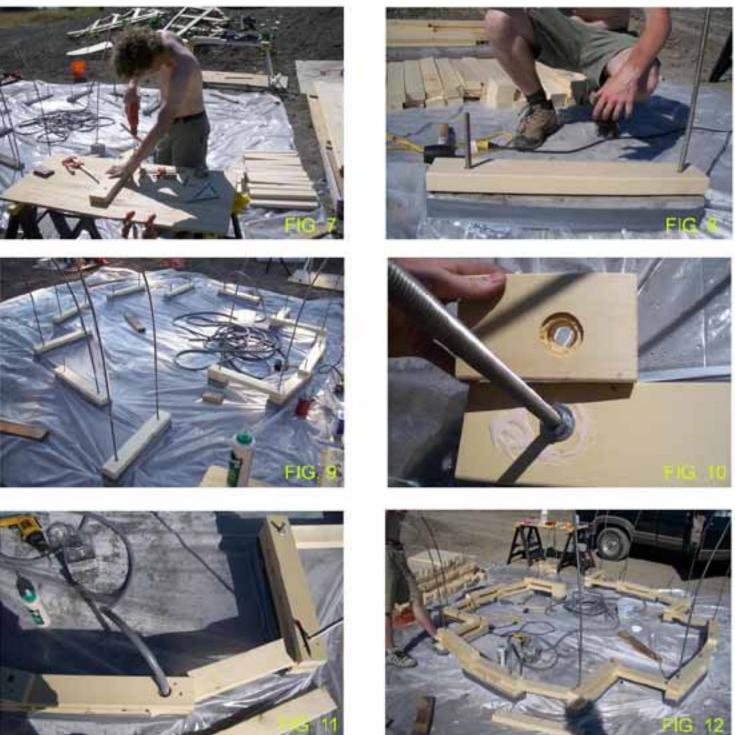
Conservator's Report and Construction Photos for DAAHOUD-A sculpture by James Harrrison- built July 29th-Sept 5th, 2004

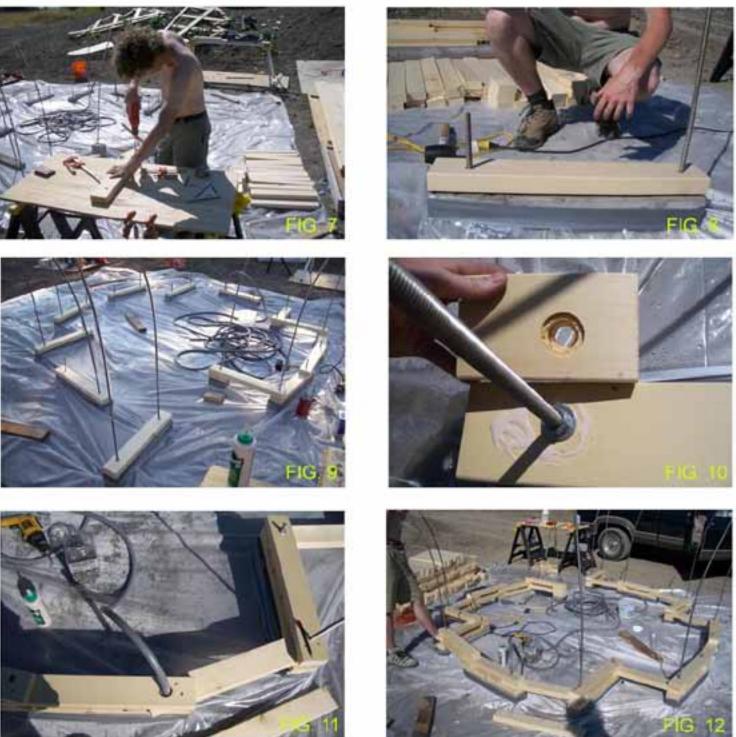
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bolted down and drilled out for nut and rod. Each layer glued down with Titebond III brand exterior wood glue, and additionally held by 2 #9 SS wood screws each end of each board. Fig 11- Location of conduit inside of boards. Fig 12- Three layers completed

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Figure 7- Drilling of the first board to fit over threaded tie down rods. All Lumber Alaskan Yellow Cedar, 2x4 x 2ft long. Fig 8- Placing of the first board. Fig 9- One and a half layers complete. Fig 10- Detail of threaded rod with first lumber layer

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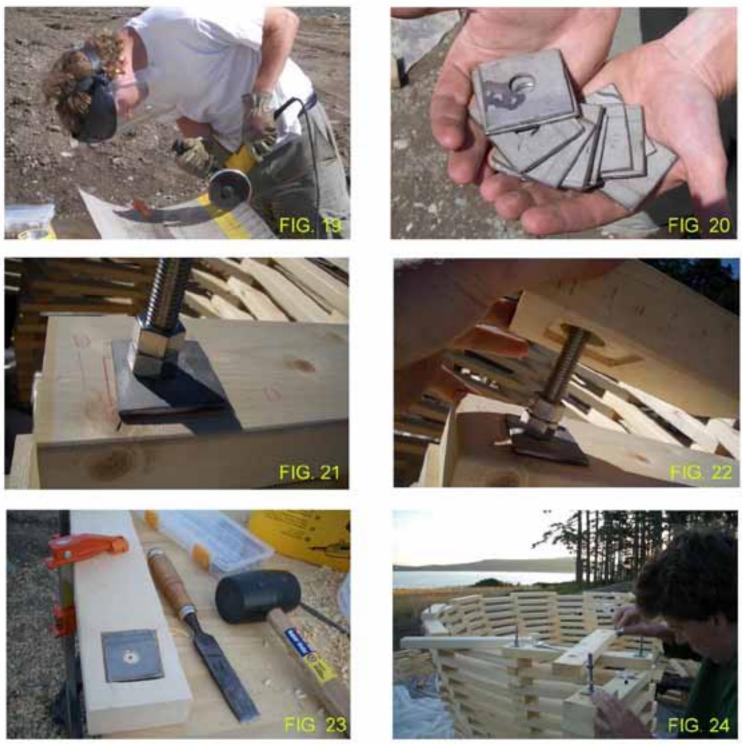
Figure 13 Footprint of sculpture now clearly visible. Fig 14- Benches installed at layer 9 & 10. Fig 15- Electrician installing transformer under bench for low voltage lighting. Fig 16- SS Washers and nuts installed with Loctite at the 3 ft level, and every 2-3 levels thereafter up to the final big washers at the 4.5 ft level. Fig 17- Sculpture beginning to show flare. Fig 18- Sculpture at entry.

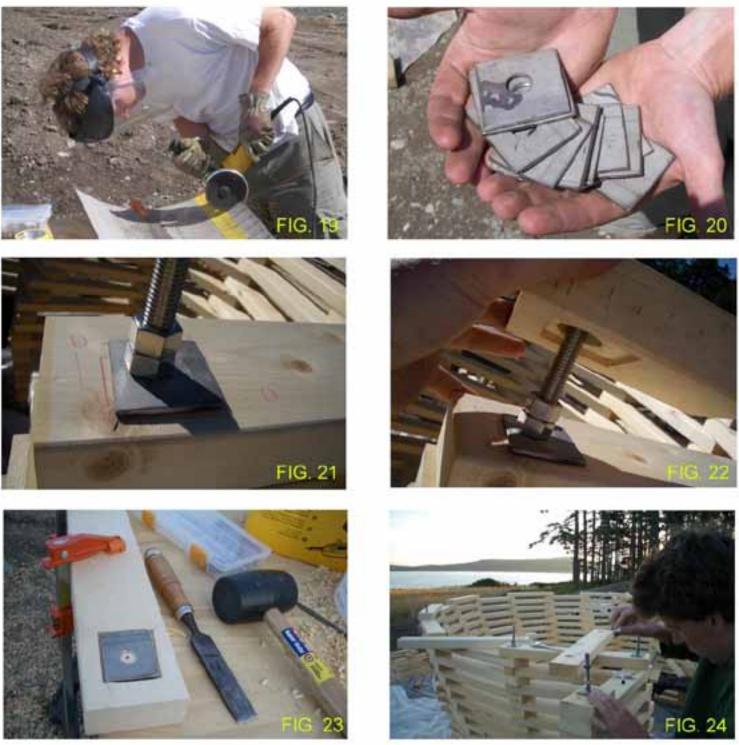
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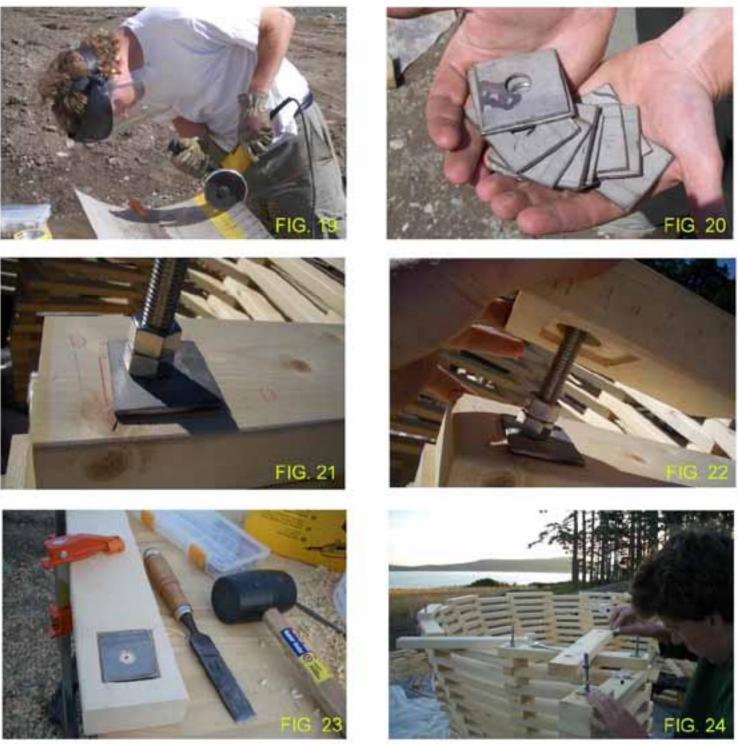


Figure 19- Fabricating 2" square stainless steel washers for final tie-off. Fig 20- Finished washers. Fig 21 Washers shown in final position with double nut. Fig 22- Mortice and hole for washer and nut shown. Fig 23. Cutting the mortice in board above to receive washer. Fig 24- Assistant shown applying epoxy to threads to lock double nuts in place.

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Figure 37- View from, ahem, underneath showing artist on scaffolding. Fig 38- view showing artist, scaffolding, and staging of material. Fig 39- doorway closing at level 82. Fig 40- transition from "Gothic Squinches" to "Baroque Drunken Flourish"or in other words, from the 'points' to the 'crown' of the sculpture- the topmost layer where the lighting is located. Fig 41- conduit at topmost squinch layer. Low voltage lighting electrical cord branches out laterally from this point, roughly layer 90. Fig 42- Hole packed with closed cell foam and then covered with 4 mil black plastic for water proofing, prior to being covered with roughly 20 more layers of lumber.

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Figure 43- Installing the last board and signing the sculpture. Fig 44- view of 'squinches and 'flourish' from inside. Fig 45low voltage electrical line branching horizontally into crown of sculpture. Fig 46. Light # 1. Fig 47 Lights 2 and 3 Fig 48 "Step Light" undernath bench. Note location of transformer under bench. There are a total of four lights in the sculpture, 3 in the 'crown' and one under the bench next to the entry. Lights are lamped with 20W Halogen bulbs- refer to Lighting Specifications for details.

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FIG. 54

Figure 49- Applying the finish- Penofin Brand UV blocking Marine Oil- Refer to attached specs. Oil was applied to each surface of each board by careful hand rubbing using a spray bottle and narrow painting pad. Fig 50- Applying finsh to outside of sculpture. Fig 51- note location of irrigation lines - located around sculpture and pointing away from sculpture. Fig 52- Extra Penofin, scaffolding, and extra bench replacement boards located in 'boat tent' adjacent to maintenance building. Fig 53- Ground cover for inside to be Corsican Mint (not installed at time of this photo) Fig 54- DONE!

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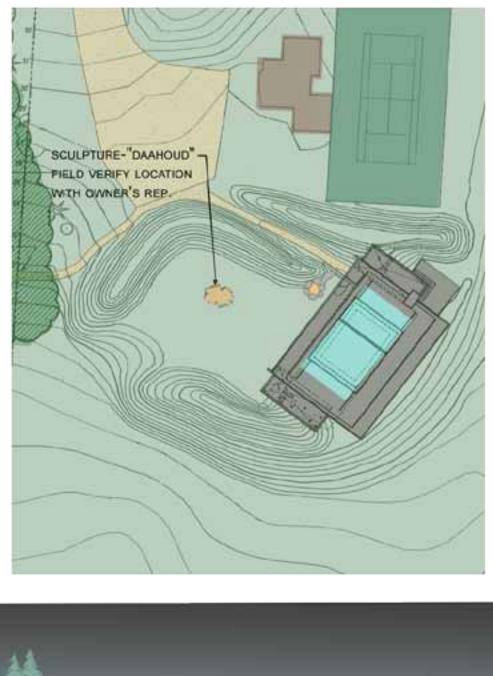
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CURIOUS FACTS- Daahoud is 116 layers tall, for a total height of 14'-6". It is designed of course to look much taller. Each board is the same length- 24", which is based on the shoulder width of the average adult human. Daahoud is named after the fabulous piano work of Oscar Peterson on the album, 'The Will to Swing'. It was first built in tribute to the birth of the artist's son. The inspiration for the sculpture came via the artist's fascination with Persian Masonry. The artist was looking for ways to translate these masonry techniques into the materials of the Northwest. In addition to each unit being the same length, there are also the same number of units on each layer- 10. The idea was to see how much deformation would be possible from a unit material. Therefore the sculpture is very rational. There are 1116 pieces- (not counting the benches and end pieces). There are over 4400 stainless steel screws hidden in the piece (as well as glue at each end of each board). The piece was built in excess of what is necessary to withstand an 80 mph wind. There are 11 Threaded rods 4.5 feet long embedded within the sculpture that attach it to the foundation. Four study models were constructed to study the structure prior to it's being built. The piece is designed to fit somewhere in the nether realm between sculpture and architecture, by employing characteristics of each discipline.





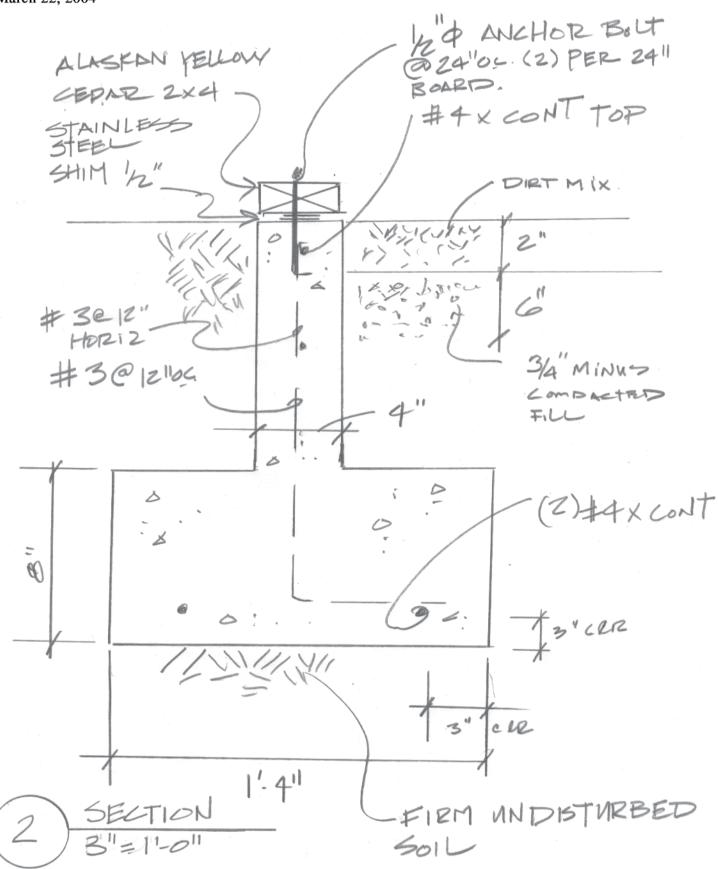
SITE PLAN AND SECTION FOR DAAHOUD REBUILD- SCALE APPROXIMATE

JAMES HARRISON- ARTIST 1875 SE BELMONT PORTLAND OR 97214 503 493-0887

Grummel Engineering

RE: DAAHOUD Sculpture Rebuild Project # 24004

March 22, 2004



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