## CAMEL LIFTING NOTES

LOADS:

1. "DRY" WEIGHT OF CAMEL (WITHOUT ANY WATER INSIDE): 105,000 POUNDS.
2. "GROSS" WEIGHT OF CAMEL (FILLED WITH WATER): 335,000 POUNDS.
3. MAXIMUM LIFT IF PROPER PROCEDURES ARE FOLLOWED (SEE BELOW): 120,000 POUNDS.

PROCEDURES FOR LOWERING/LIFTING CAMEL INTO/OUT OF THE WATER:

1. THESE NOTES APPLY TO LIFTING/LOWERING THE CAMEL INTO THE WATER DURING INITIAL INSTALLATION AND AFTER INITIAL INSTALLATION HAS TAKEN PLACE.

2. LOWERING THE CAMEL INTO THE WATER:

   2.1. CAMEL MUST BE LIFTED USING ALL 4 BUILT IN LIFTING LOCATIONS.

   2.2. PRIOR TO LOWERING THE CAMEL INTO THE WATER, ALL PLUGS FOR FLOODING/DRAINAGE HOLES AND ALL PLUGS FOR AIR EQUALIZATION HOLES ON THE CAMEL MUST BE OPENED.

   2.3. 4–50' LONG LIFTING SLINGS, ARRANGED DIAGONALLY, SHALL BE SECURED AND ATTACHED TO CRANE HOIST AT HEIGHT AS INDICATED.

   2.4. THE CAMEL SHALL BE LOWERED INTO THE WATER SLOWLY SUCH THAT THE GENERAL ORIENTATION OF THE CAMEL SHALL BE MAINTAINED WITH THE FLOTATION FOAM LOCATED "UP" AND THE BALLAST LOCATED "DOWN" FOR THE ENTIRE DURATION WHILE HOISTING THE CAMEL FROM THE BULKHEAD/PIER INTO THE WATER.

   2.5. CAP ALL FLOODING/DRAINAGE HOLES AND AIR EQUALIZATION HOLES.

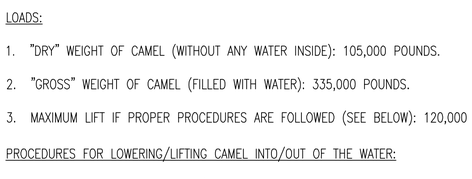
3. LIFTING THE CAMEL OUT OF THE WATER:

   3.1. CAMEL MUST BE LIFTED USING ALL 4 BUILT IN LIFTING LOCATIONS.

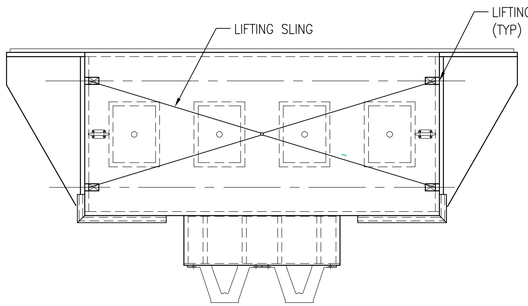
   3.2. PRIOR TO LIFTING THE CAMEL OUT OF THE WATER, ALL PLUGS FOR FLOODING/DRAINAGE HOLES AND ALL PLUGS FOR AIR EQUALIZATION HOLES ON THE CAMEL MUST BE OPENED.

   3.3. 4–50' LONG LIFTING SLINGS, ARRANGED DIAGONALLY, SHALL BE SECURED AND ATTACHED TO CRANE HOIST AT HEIGHT AS INDICATED.

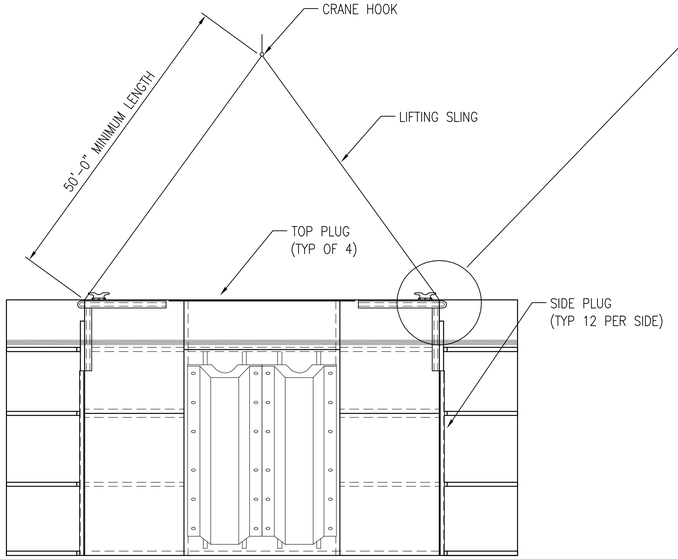
   3.4. THE CAMEL SHALL BE LIFTED OUT OF THE WATER SLOWLY TO ALLOW DRAINAGE DURING THE LIFT. (THE LOAD ON THE CRANE SHOULD NOT EXCEED 60 TONS.) TYPICAL LIFT RATE OF 2 FEET PER MINUTE MAXIMUM. PAUSE AT EACH SET OF DRAINAGE HOLES TO ALLOW DRAINAGE UP TO THAT LOCATION.



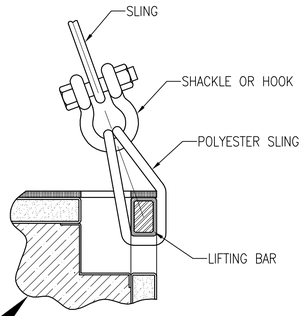

PLACEMENT OF SIGNS

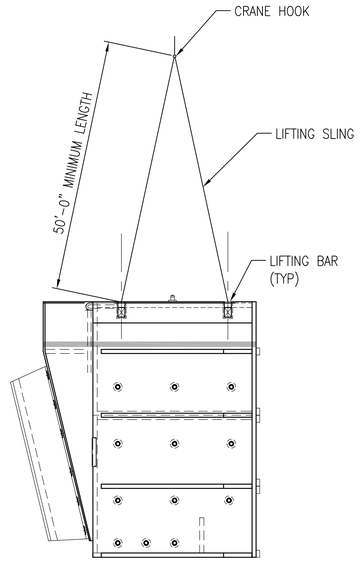



UPPER PLAN



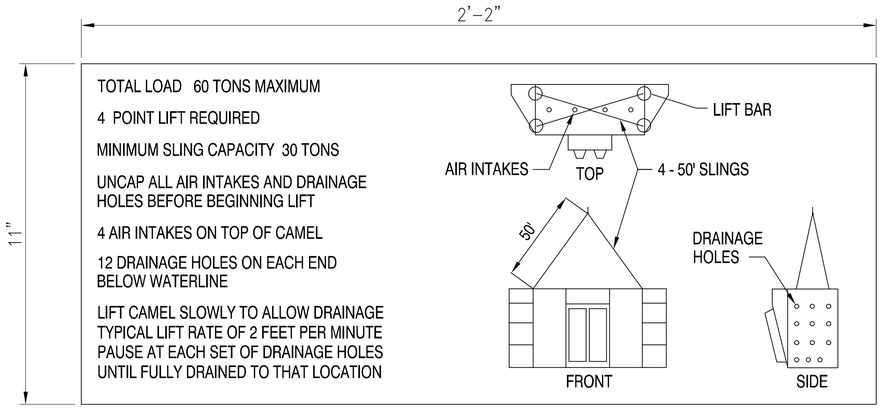

FRONT ELEVATION



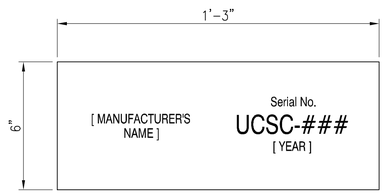




SIDE ELEVATION

CAMEL LIFTING SCHEMATICS




LIFTING PROCEDURES AND DIAGRAM SIGN




I. D. PLATE

NOTES: 1. SERIAL NO. SHALL BE "UCSC–###" W/NUMBERS PROVIDED BY CONTRACTING OFFICER.

2. ATTACH SIGNS IN A PERMANENT AND WEATHERPROOF MANNER.

GRAPHIC SCALE
0 2' 4' 6' 10'
SCALE: 3/16" = 1'-0"

| ITM | DESCRIPTION | DATE | APPR |
|---|---|---|---|
| | | | |

NAVFAC

Composite Advantage

WR&A
801 South Caroline Street, Baltimore, MD 21231
WHITMAN, REQUARDT & ASSOCIATES, LLP
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE
DES MHL DRW MHL CHK JBS
PM/DM
BRANCH MANAGER
CHIEF ENG/ARCH
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVFAC LANT
COMPOSITE SUBMARINE CAMEL
LIFTING/LOWERING PROCEDURES

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO. N66540-09-C-0029
NAVFAC DRAWING NO. 14019610
SHEET 4 OF 9
S-002
DRAWFORM REVISION: 10 MARCH 2009

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