FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360A-01-97	1998	6	9

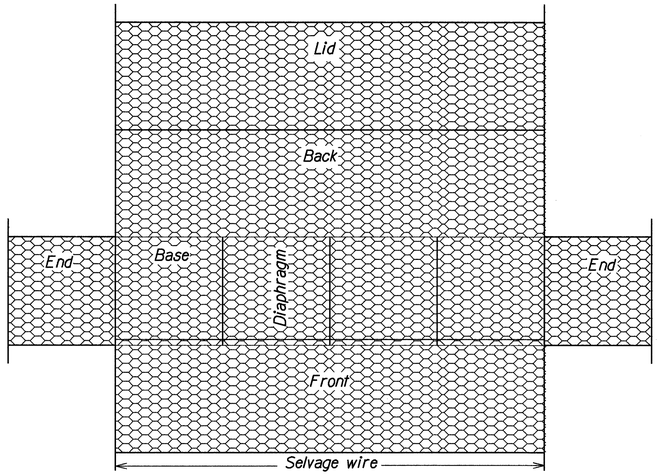
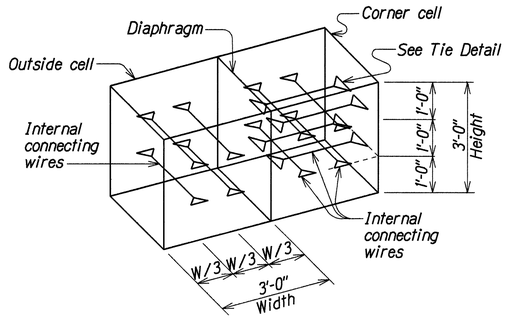


FIGURE 1
N.T.S.



INTERNAL CONNECTING WIRES
FIGURE 3
N.T.S.

ASSEMBLY PROCEDURE

1. Unpack and unfold the gabion flat on the ground. Stretch as much as possible, making sure all creases are in the correct position for forming the box. Stamp out all kinks and folds. (See Figure 1)
2. Lift the side and end panels into a vertical position to form a rectangular box. Assemble gabions so that they can be filled from the top when in position. The front panel extensions of selvage wires are bent and looped twice along the selvage wire of the top end panels. The end panel extensions of selvage wires are also looped twice along the selvage top of the front panel. Fasten the vertical edges with lacing wire, using the "2, 1, 2" lacing pattern. (See lacing detail) Raise and lace the diaphragm panels the same way.
3. Before filling with stones (see Specifications) each gabion should be tightly laced along each selvage wire to all adjacent gabions. Lace as many gabions together as posible before filling. Empty gabion units shall be set to line and grade as shownon the plans. A fence stretcher, block and tackle, come-along, etc. may be used to stretch the wire baskets and hold alignment during the filling process.
4. Internal connection wires shall be installed in all cells and cornercells. (See Figure 3 & 4) Gabions should be filled to the depth of the first tie wire, the connecting wires are placed and looped around three meshes of the gabion wall. (See tie detail) This process is repeated at the next tie level.
5. When the gabions are completely filled with stones, the lid is folded shut and laced to the ends, sides and diaphragms. (See lacing detail) Lacing adjacent lids in one operation is acceptable, provided that the lacing pattern is strictly followed. To obtain correct alignment of the top selvage wires and to insure that the selvage wires meet closely without gaps, it may be required to use a lever bar or other special tools.
6. Subsequent tiers of gabions should be built in the same manner. Adjoining gabions are laced together at all adjoining selvage edges. Empty gabions stacked on filled gabions are laced to the filled gabions at front, side and back. (See Figure 4)

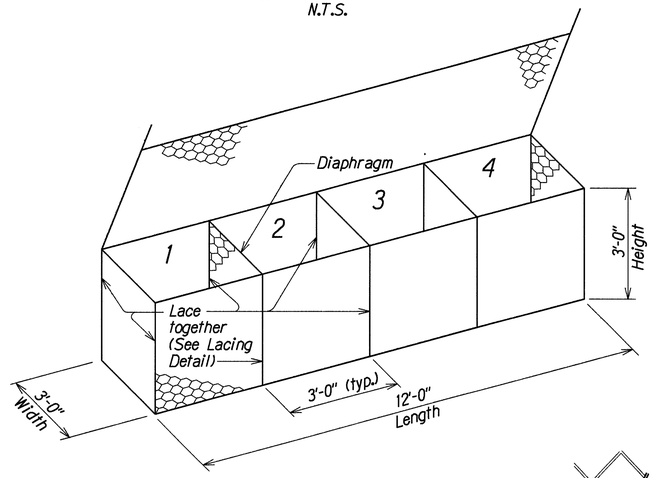


FIGURE 2
N.T.S.

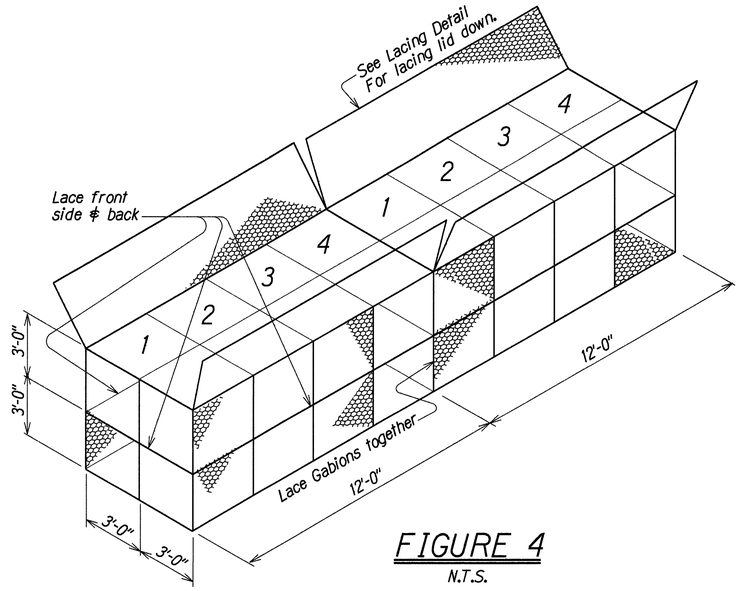
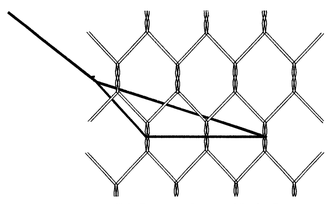
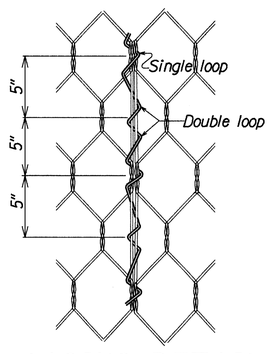


FIGURE 4
N.T.S.



TIE DETAIL
N.T.S.



LACING DETAIL
N.T.S.

ORIGINAL PLAN	SURVEY PLOTTED BY	chb	DATE	June 1998
	DRAWN BY			
	TRACED BY			
NOTE BOOK	DESIGNED BY	JFU		June 1998
	QUANTITIES BY	JFU		June 1998
N: gdv.dgn	CHECKED BY	JFU		June 1998

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GABION WALL
DETAILS AND ASSEMBLY PROCEDURE
HANA HIGHWAY
IMPROVEMENT IN THE VICINITY OF KEANAE (MP 16.13)
Project No. 360A-01-97

Scale: As Noted Date: June 1998

SHEET No. 01 OF 1 SHEETS