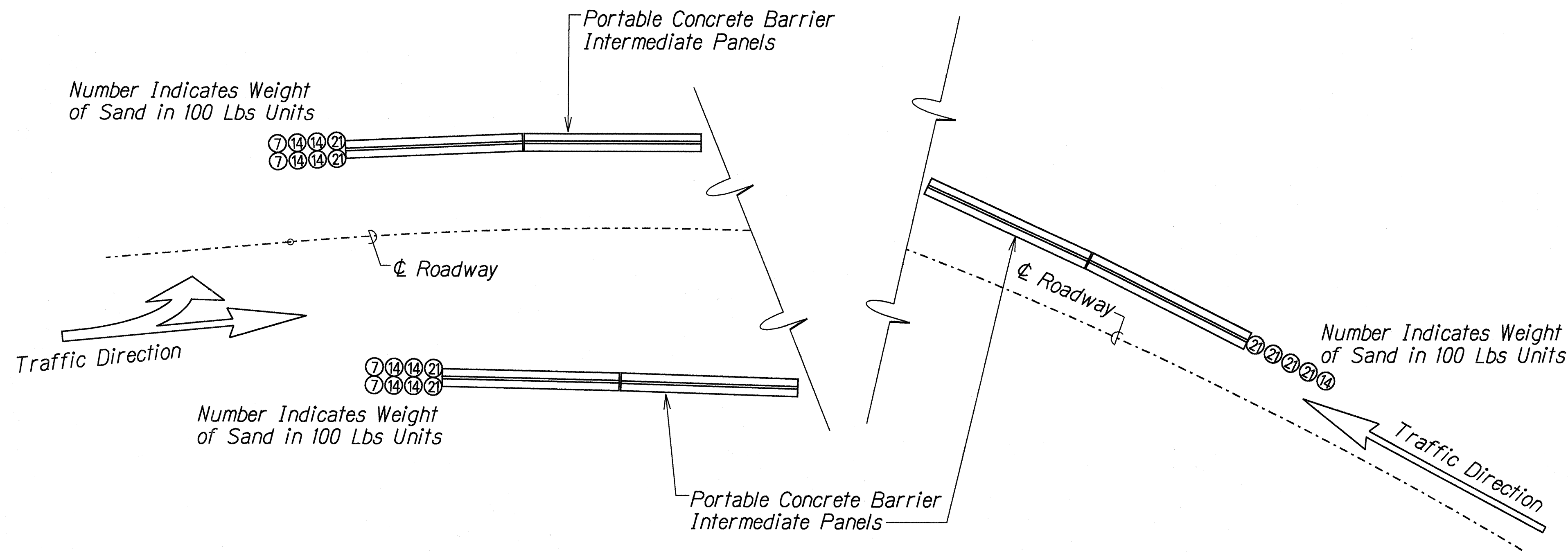
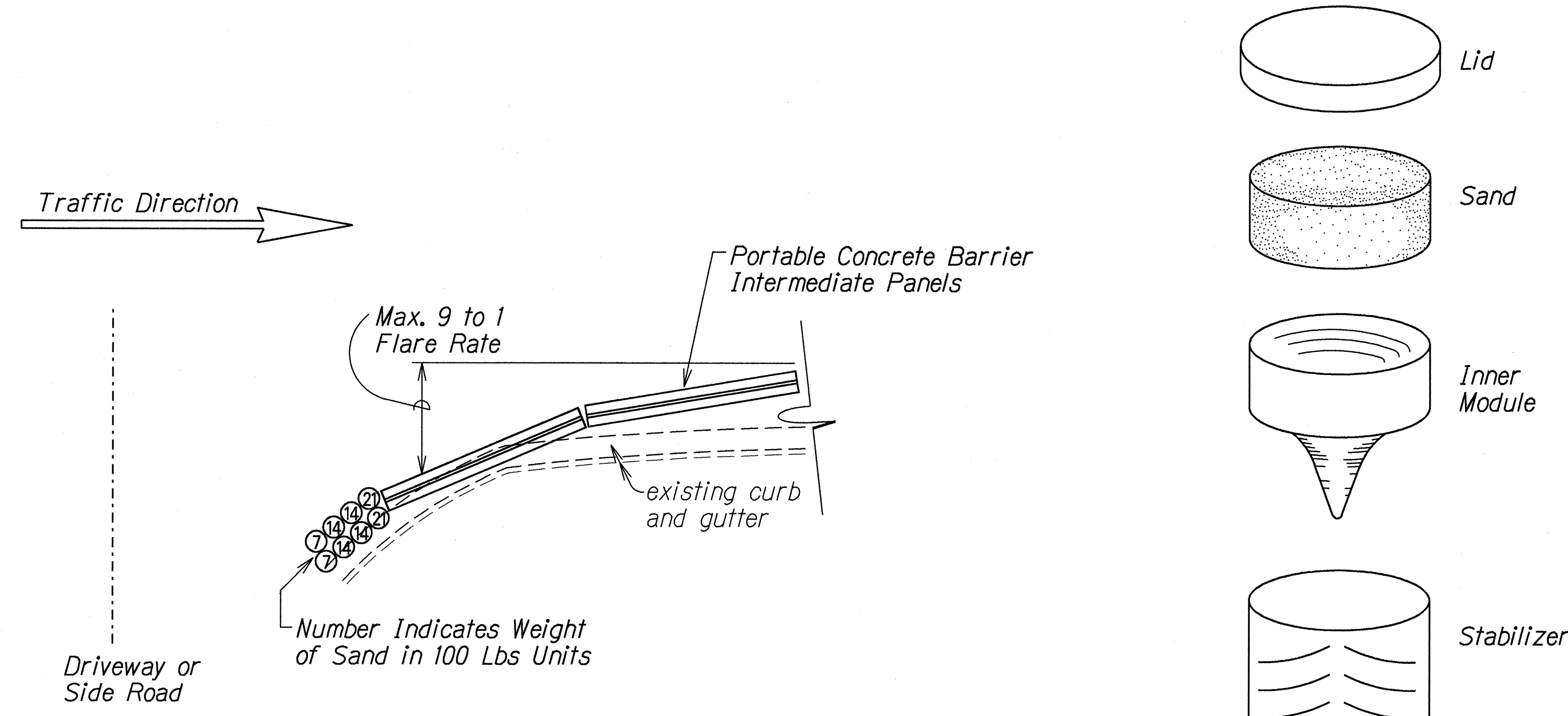


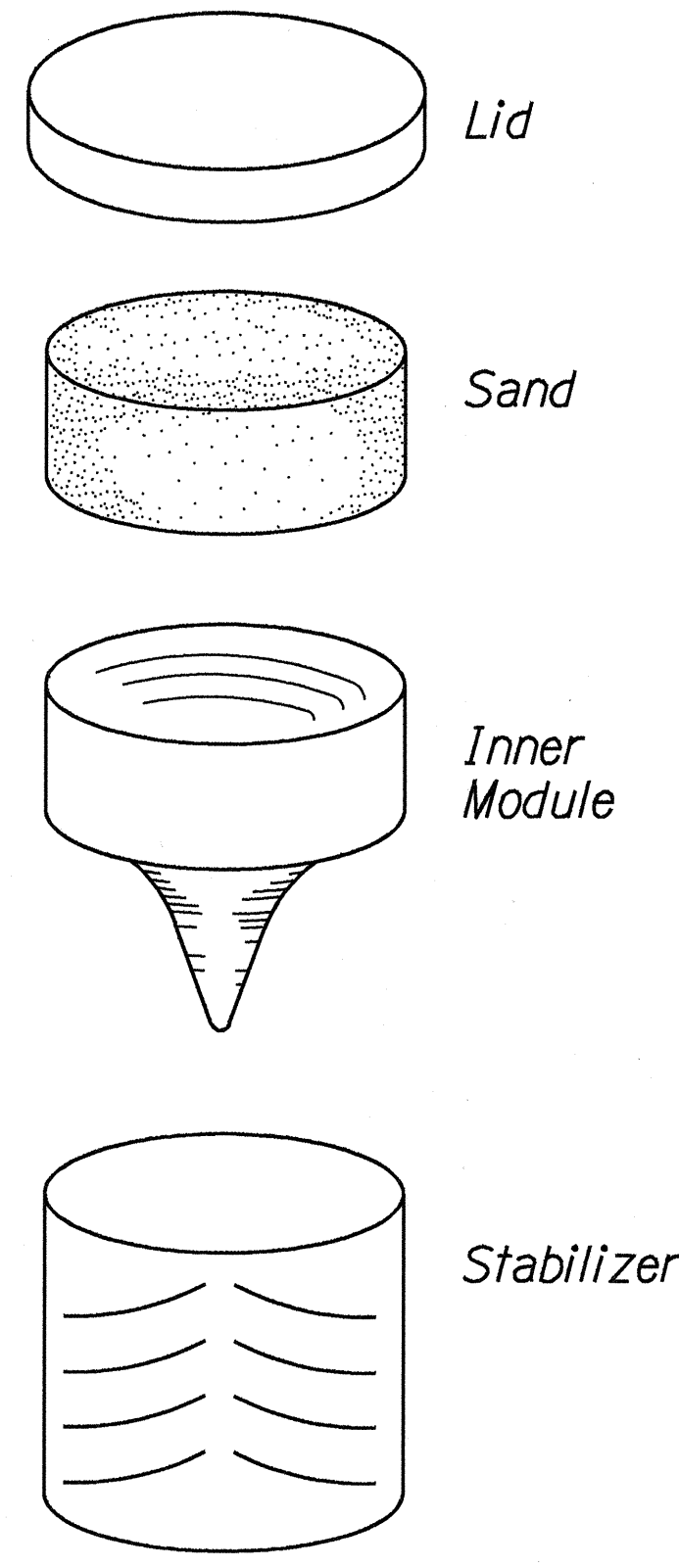
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-083-1(27)	1998	17	58



TEMPORARY CRASH ATTENUATOR FOR PORTABLE CONCRETE BARRIER TERMINAL PANEL
Not to Scale



TEMPORARY CRASH ATTENUATOR FOR PORTABLE CONCRETE BARRIER TERMINAL PANEL AT DRIVEWAY OR SIDE ROAD
Not to Scale



- Notes:
1. Standard size of stabilizer: 36" diameter top, 32" diameter base with 35 3/4" height.
 2. Standard weights of modules are 200, 400, 700 and 1400 pounds.
 3. Design vehicle weights are 2250 pounds and 4500 pounds. (1021 kg and 2041 kg respectively.)
 4. Design initial impact speed is 45 m.p.h. (72.45 km/h)
 5. Payment for relocation of temporary Inertial Barriers for the different construction phases shall be incidental to Contract Item Nos. 649.1000 and 649.2000, Temporary Portable Concrete Barrier Inertial System (8 Units) and (5 Units) respectively.

CONTAINER DETAIL
Not to Scale

ORIGINAL	SURVEY PLOTTED BY	DATE
PLAN	DRAWN BY G. Athanasia / J.M.	11-12-97
NOTE BOOK	TRACED BY J. E. L. / J.M.	
HEAVY DETAIL	QUANTITIES BY N. Hendriks	
CHECKED BY		

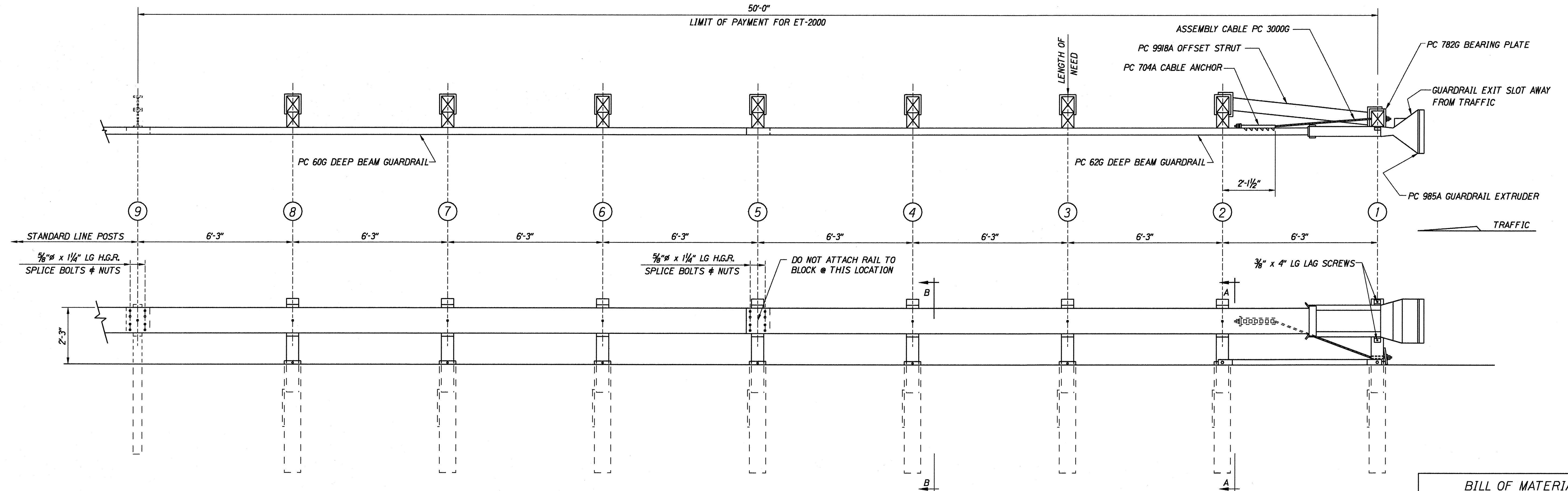
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

INERTIAL BARRIER DETAILS
KAMEHAMEHA HIGHWAY
REPLACEMENT OF MALAEKAHANA BRIDGE
Federal Aid Project No. BR-083-1(27)

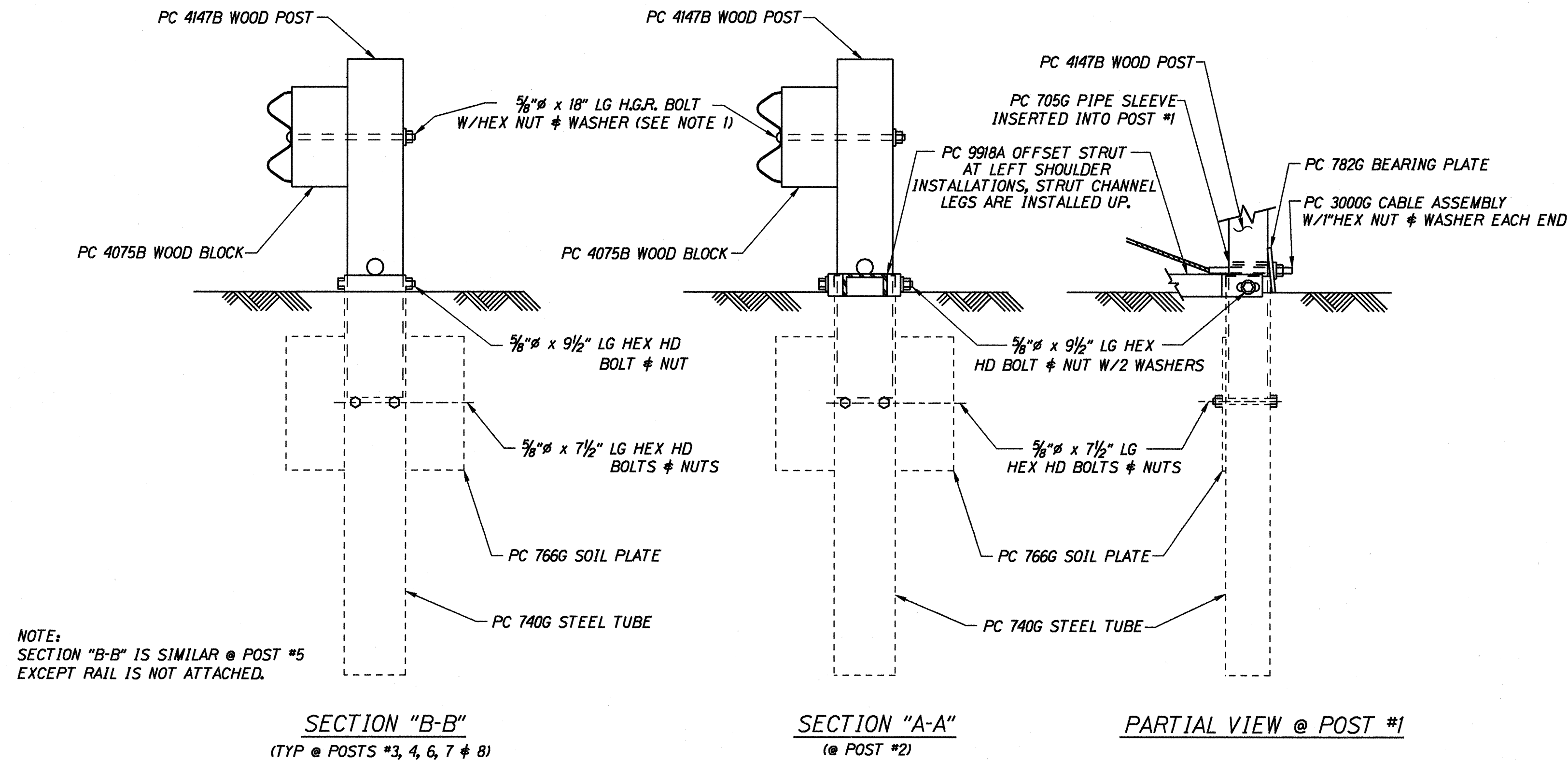
Scale: As Shown
Date: Feb., 1998

SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-083-1(27)	1998	17S-1	58



BILL OF MATERIAL		
PC	QTY	DESCRIPTION
60G	1	12/25/6'3/S (GUARDRAIL)
62G	1	12/25/6'3/S ANC (GUARDRAIL)
704A	1	CABLE ANCHOR BRACKET
705G	1	2" x 5 1/2" PIPE
740G	8	46 TUBE SLEEVE
766G	8	1/4" x 18" x 24" SOIL PLATE
782G	1	5/8" x 8" x 8" BEARING PLATE
985A	1	ET-2000 EXTRUDER
3300G	11	5/8" WASHER
3340G	47	5/8" HEX NUT
3360G	16	5/8" x 1 1/4" SPLICE BOLT
3478G	16	5/8" x 7 1/2" HEX HD BOLT
3497G	8	5/8" x 9 1/2" HEX HD BOLT
3580G	7	5/8" x 18" POST BOLT
3900G	2	1" WASHER
3910G	2	1" HEX NUT
4075B	7	WD BLOCK 1'2 6" x 8" DR
4147B	8	WD 3'9 POST 5 1/2 x 7 1/2
4228G	2	3/8" x 4" LAG SCREW
9918A	1	6'3 STRUT



NOTE: THE 5/8" FLAT WASHER IS USED UNDER THE NUT, BEHIND THE POST ONLY. NO WASHER IS USED AT THE RAIL.

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	11-5-97
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NOTED BY	
REVISION	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ET-2000 DETAIL

KAMEHAMEHA HIGHWAY
REPLACEMENT OF MALAEKAHANA BRIDGE
Federal Aid Project No. BR-083-1(27)

Scale: As Shown Date: Feb., 1998

SHEET No. 1 OF 1 SHEETS