

Breakaway End Post PB620

BCT Cable

Anchor Assy

3/4" Dia. x 10" Hex Head Bolt <u>B341004</u> \$ 3/4" Nut <u>N030</u> w/(2) Washers <u>W030</u>

Soil Tube S730

Ground Strut

Hex Nut N100 \$ Washer W100

Bearing Plate E750

PARTIAL VIEW OF POST 1

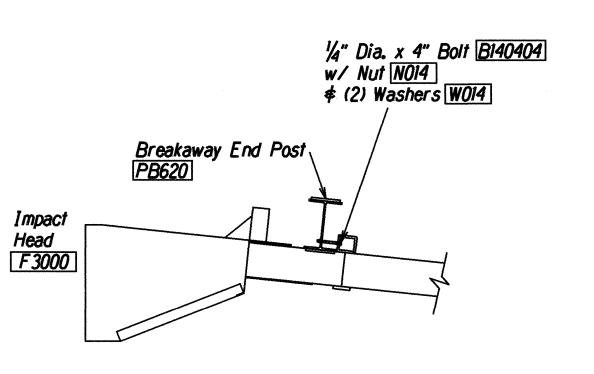
5%" Dia. x 7½"

Hex Head Bolt B580754

H.G.R. Nut N050

GENERAL NOTES

- 1. Breakaway posts are required with the FLEAT Terminal.
- 2. All bolts, nuts, cable assemblies, cable anchors and bearing plates shall be galvanized.
- 3. The soil tubes shall not protrude more than 4" above ground (measured along a 5' cord). Site grading may be necessary to meet this requirement.
- 4. The soil tubes may be driven with an approved driving head. Soil tubes should not be driven with the post in the tube. If the tubes are placed in drilled holes, the backfill material must be satisfactorily compacted to prevent settlement.
- 5. When rock is encountered during excavation, a 12" Dia. post hole, 20" deep may be used if approved by the engineer. Granular material will be placed in the bottom of the hole approx. 2 ½" deep to provide drainage. The soil tubes will be field cut to length, placed in the hole and backfilled with adequately compacted material excavated from the hole.
- 6. The breakaway cable assembly must be taut. A locking device, (vice grips or channel lock pliers) should be used to prevent the cable from twisting when tightening nuts.



IMPACT HEAD CONNECTING DETAIL

5⁄8" Dia. x 11⁄4" <u>B580122</u> w/H.G.R. Nut <u>N050</u> \$ (1) Washer <u>W050</u>

under Nut only

Ground Strut

¾" Dia. x 10" Hex Head Bolt [B341004] \$ ¾" Nut [N030] w/ (2) Washer [W030]

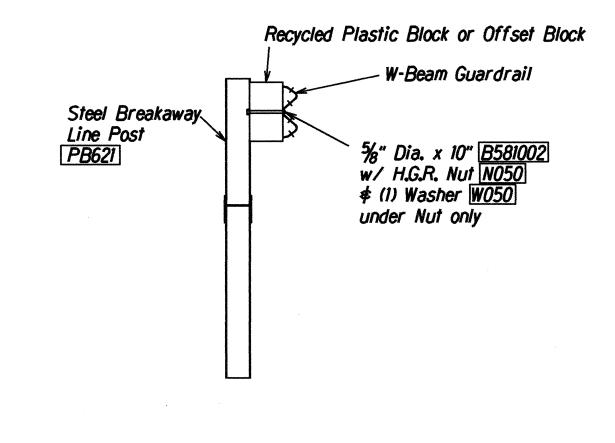
¹/₈" Dia. x 7½" Hex Head Bolt <u>B580754</u> **\$** H.G.R. Nut <u>N050</u>

Steel Breakaway End Post PB620

Soil Tube E730

SECTION A-A

(@ Post #2)



SECTION B-B (Typical @ Post 3 - 7) NOTE: RAIL NOT BOLTED @ POST #3

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11BC-01-01M	2001	29	68

ITEM NO.	QTY	BILL OF MATERIALS				
F3000	1	IMPACT HEAD				
F1303	1	W-BEAM GUARDRAIL END SECTION, 12 GA.				
F1304	1	W-BEAM GUARDRAIL CENTER SECTION, 12 GA.				
G1203	1	W-BEAM GUARDRAIL, 12 GA.				
<i>S</i> 730	2	*FOUNDATION SOIL TUBE, 6" x 8" x 72"				
E750	1	BEARING PLATE				
S760	1	CABLE ANCHOR BOX				
E770	1	BCT CABLE ANCHOR ASSEMBLY				
E780	1	GROUND STRUT				
PB620	2	STEEL BREAKAWAY END POST				
PB621	5	STEEL BREAKAWAY LINE POST				
	5	RECYCLED PLASTIC BLOCKOUT OR OFFSET BLOCK				
		HARDWARE				
B580122	<i>2</i> 5	5/8" Dia. x 11/4" SPLICE BOLT, POST #2				
B580754	2	%" Dia. x 7½" HEX BOLT				
B341004	2	3/4" Dia. x 10" HEX BOLT				
B581002	5	%" Dia. x 10" H.G.R. BOLT (POST 3 THRU 7)				
N050	32	5%" Dia. H.G.R. NUT (SPLICE 24, SOIL TUBES 2, POST 2 THRU 7, 6)				
NO30	2	¾" Dia. HEX NUT				
W050	6	H.G.R. WASHER				
W030	4	3/4" ID WASHER				
N100	2	1" ANCHOR CABLE HEX NUT				
W100	2	1" ANCHOR CABLE WASHER				
B140404	2	1/4" x 4" HEX BOLT				
N014	2	1/4" HEX NUT				
W014	4	1/4" WASHER				
SB58A	8	CABLE ANCHOR BOX SHOULDER BOLT				
N055A	8	1/2" A325 STRUCTURAL NUT				
W050A	16	11/16" OD x 1/16" ID A325 STR. WASHER				
Foundation Tube Options For Posts 1 & 2						

Foundation Tube Options For Posts 1 \$ 2

*6'-0" Split Foundation Tubes S730

*6'-0" Solid Foundation Tubes E731 *5'-0" Foundation Tubes S735 W/Soil

Plates SP600 *4'-6" Foundation Tubes E735 W/Soil Plates SP600

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

FLEAT-350

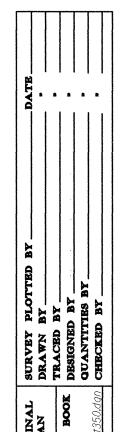
FLARED ENERGY ABSORBING TERMINAL

HAWAII BELT ROAD RESURFACING
HONOKUA TO PAHOEHOE
PROJECT NO. 11BC-01-01M

Scale: N.T.S.

Date: March, 2001

SHEET No. 1 OF 1 SHI



29