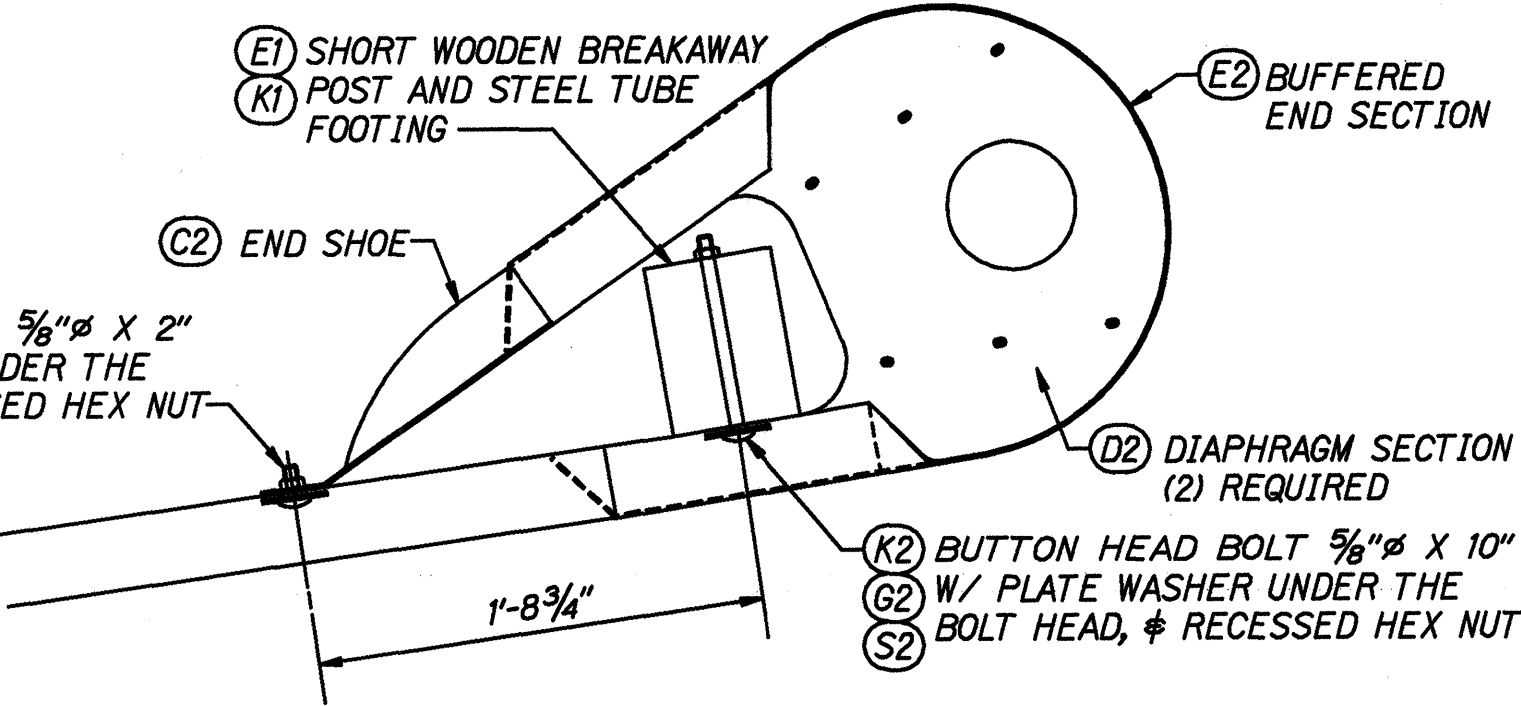


FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0460 (11)	1996	21	39

NOTES

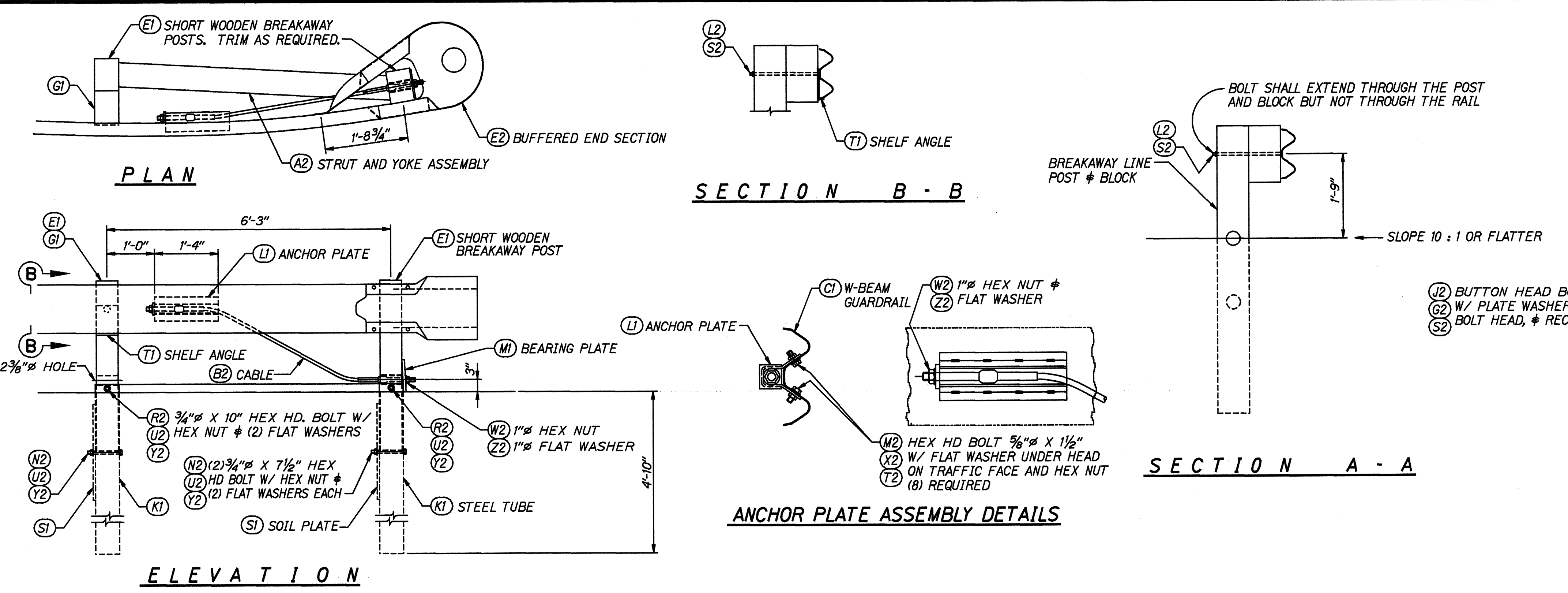
1. THE POST OFFSET DIMENSIONS ARE GIVEN TO THE CENTER OF THE TRAFFIC FACE OF THE BLOCKOUTS, EXCEPT AT THE FIRST POST, WHERE THE DIMENSION IS TO THE CENTER OF THE TRAFFIC FACE OF THE POST. OFFSET POINTS ARE TO BE LOCATED BY CHORD MEASUREMENTS AT THE BACK OF THE RAIL EQUAL TO THE NOMINAL POST SPACINGS SHOWN. POSTS ARE TO BE SET APPROXIMATELY RADIAL TO THE RAILING AT EACH POST LOCATION.



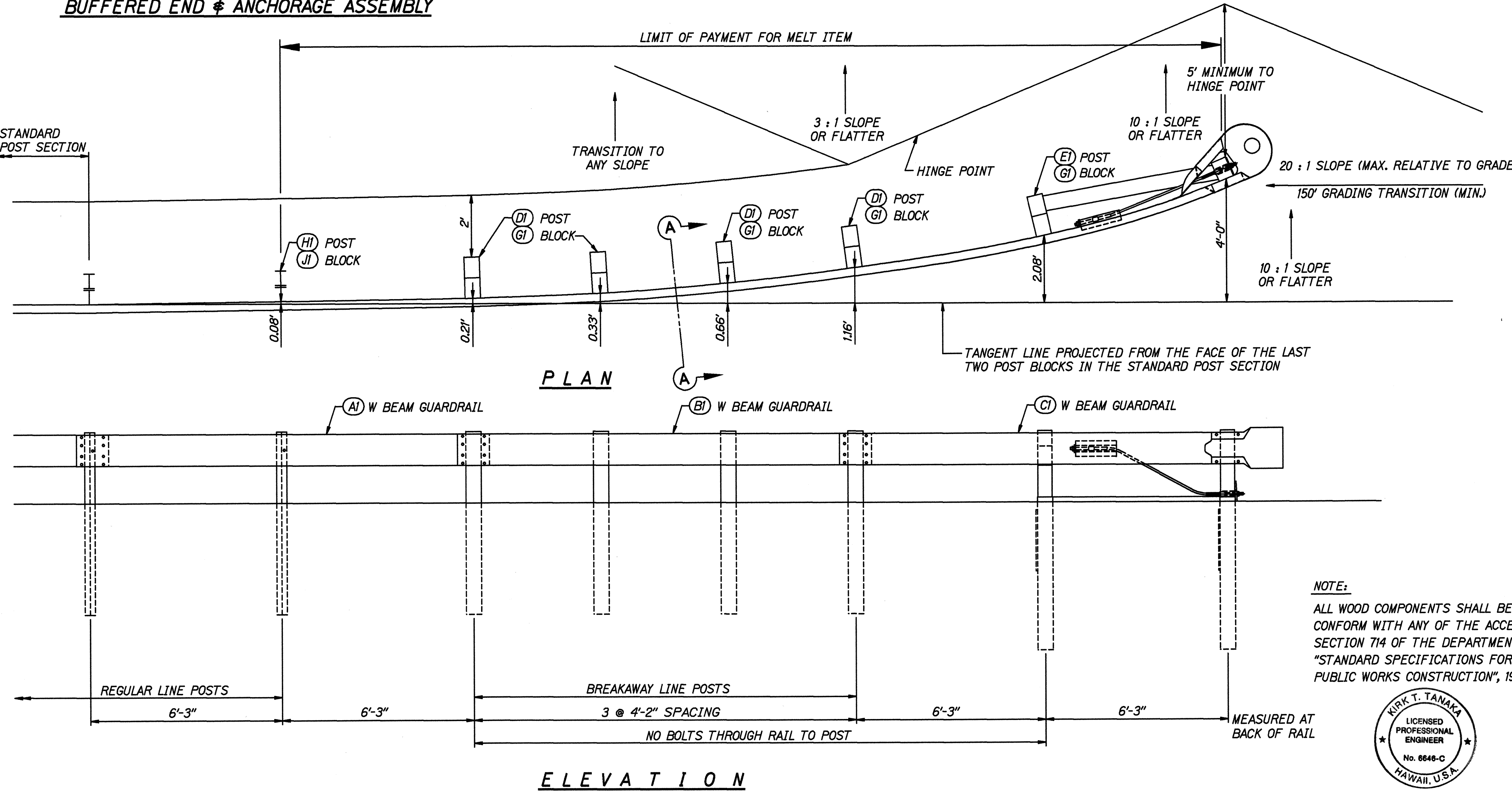
BUFFERED END ASSEMBLY

SUMMARY OF COMPONENTS

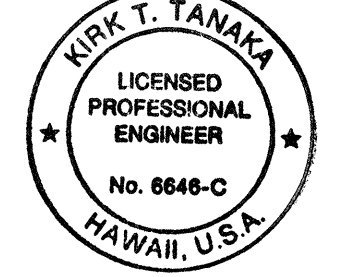
FIND NO.	DESCRIPTION
(A1)	GUARDRAIL, 12GA X 12'-6"
(B1)	GUARDRAIL, 12GA X 12'-6"
(C1)	GUARDRAIL, 12GA X 12'-6"
(D1)	BREAKAWAY LINE POST, TIMBER - 6" X 8" X 6'-0"
(E1)	BREAKAWAY POST, TIMBER - 5 1/2" X 7 1/2" X 3'-6 1/2"
(G1)	BLOCK, TIMBER - 5 1/2" X 7 1/2" X 1'-2"
(H1)	POST - W6 X 8.5 X 6'-0"
(J1)	BLOCK - W6 X 8.5 X 1'-2"
(K1)	SOIL TUBE - TS 8 X 6 X .188 X 5'-0"
(L1)	CABLE ANCHOR BRACKET
(M1)	BEARING PLATE
(R1)	PIPE SPACER
(S1)	SOIL PLATE
(T1)	SHELF ANGLE
(A2)	STRUT & YOKE ASSEMBLY
(B2)	CABLE ASSEMBLY
(C2)	END SHOE
(D2)	DIAPHRAGM PLATE
(E2)	BUFFERED END SECTION
(G2)	WASHER, PLATE
(H2)	BOLT, SPLICE 5/8" X 1 1/4"
(J2)	BOLT, POST 5/8" X 2"
(K2)	BOLT, POST 5/8" X 10"
(L2)	BOLT, POST 5/8" X 18"
(M2)	BOLT, HEX 5/8" X 1 1/2"
(N2)	BOLT, HEX 3/4" X 7 1/2"
(R2)	BOLT, HEX 3/4" X 10"
(S2)	NUT, HEX, RECESSED 5/8"
(T2)	NUT, HEX 5/8"
(U2)	NUT, HEX 3/4"
(W2)	NUT, HEX 1"
(X2)	WASHER, FLAT 5/8"
(Y2)	WASHER, FLAT 3/4"
(Z2)	WASHER, FLAT 1"



BUFFERED END & ANCHORAGE ASSEMBLY



NOTE:
ALL WOOD COMPONENTS SHALL BE TREATED TO CONFORM WITH ANY OF THE ACCEPTED METHODS IN SECTION 714 OF THE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND PUBLIC WORKS CONSTRUCTION", 1994.



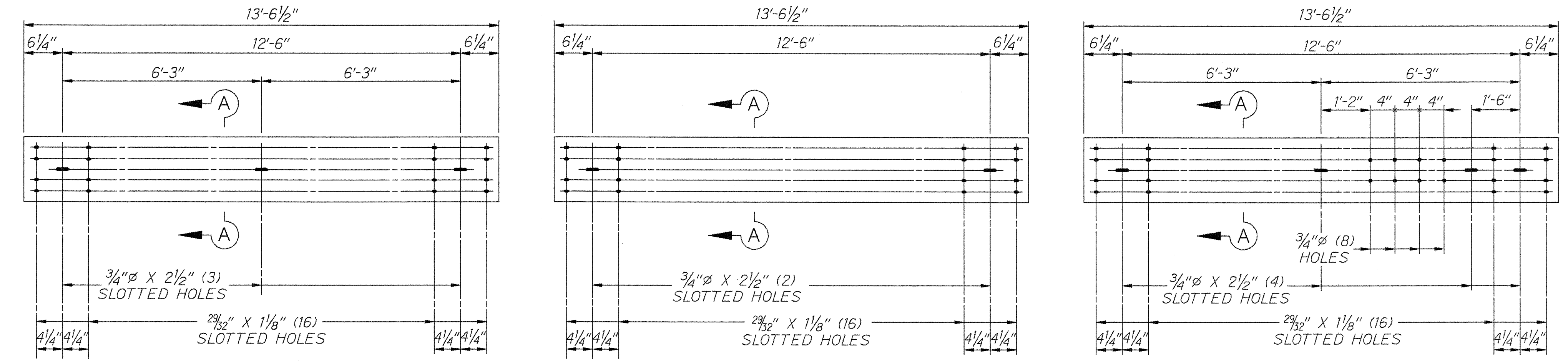
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
R. T. Tanaka
R. T. TANAKA ENGINEERS, INC.
CIVIL ENGINEERING - LAND SURVEYING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**MODIFIED ECCENTRIC LOADER
TERMINAL (MELT)**
POST LAYOUT & ERECTION DETAILS
MAUNALOA HIGHWAY RESURFACING
KAUNAKAKAI WHARF TO HOOLEHUA
FEDERAL AID PROJECT NO. STP-0460 (11)
Not to Scale Date: MAY, 1996
SHEET No. 1 OF 3 SHEETS

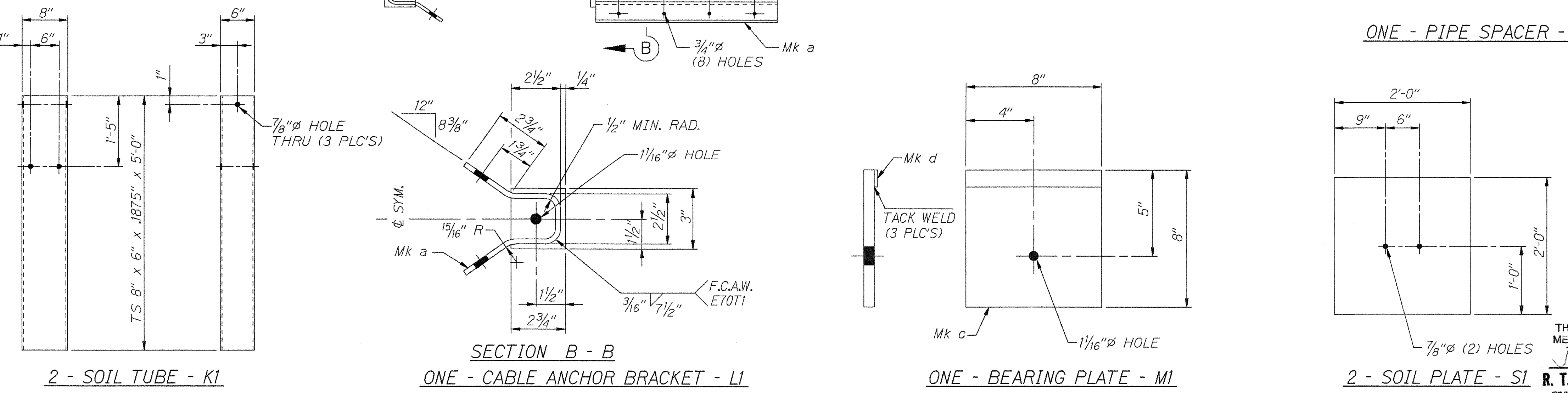
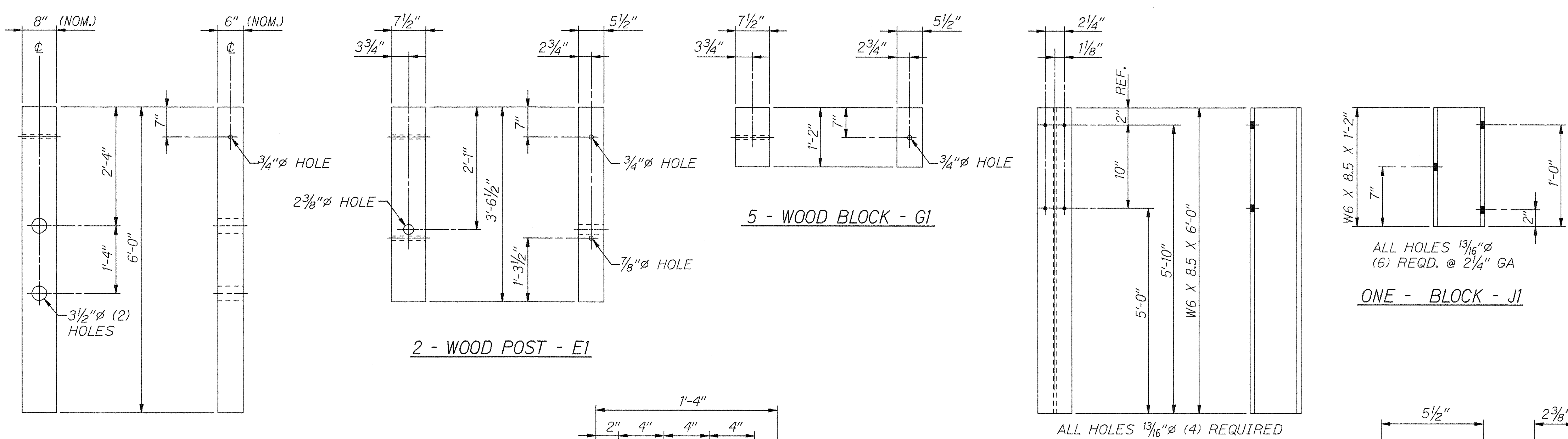
DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
REVISIONS	

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0460 (11)	1996	22	39

MATERIAL SCHEDULE					
FIND	PIECE No.	MATERIAL	LENGTH FEET	INCHES	WEIGHT
A1		GUARDRAIL, W-BEAM			95.0
		12 GA. W-BEAM GUARDRAIL	12	6	89.0
B1		GUARDRAIL, W-BEAM			95.0
		12 GA. W-BEAM GUARDRAIL	12	6	89.0
C1		GUARDRAIL, W-BEAM			95.0
		12 GA. W-BEAM GUARDRAIL	12	6	89.0
D1		BREAKAWAY LINE POST			88.0
		TIMBER POST 6 X 8	6	0	352.0
E1		BREAKAWAY POST, SHORT			44.6
		TIMBER POST 5 1/2 X 7 1/2	3	6 1/2	89.2
G1		BLOCK			16.8
		TIMBER BLOCK 5 1/2 X 7 1/2	1	2	84.0
H1		POST			54.9
		W6 X 8.5	6	0	52.0
J1		BLOCK			11.0
		W6 X 8.5	1	2	10.1
K1		SOIL TUBE			88.9
		TS 8 X 6 X .1875	5	0	170.8
L1		CABLE ANCHOR BRACKET			19.3
a		PL 1/4 X 12 3/8	1	4	17.6
b		PL 1/2 X 2 3/4	0	3	1.17
M1		BEARING PLATE			11.9
c		PL 5/8 X 8	0	8	11.3
d		PL 3/16 X 1	0	8	0.4
R1		POST SLEEVE			1.76
		PIPE 2" STD	0	5 1/2	1.67
S1		SOIL PLATE			84.8
		PL 1/4 X 24	2	0	40.8
T1		SHELF ANGLE			3.7
		PL 1/4 X 6	0	8 1/2	3.61



SECTION A - A



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Not to Scale Date: MAY, 1996
SHEET No. 2 OF 3 SHEETS

