

NOTES

Diagram illustrating the Plan view of the tail section assembly. Key components and dimensions are labeled:

- E1** SHORT WOODEN BREAKAWAY POSTS. TRIM AS REQUIRED.
- G1** (Pointing to the breakaway posts).
- A2** STRUT AND YOKE ASSEMBLY.
- E2** BUFFERED END SECTION.
- Dimension: $1'-8\frac{3}{4}"$ (Length of the buffered end section).

P L A N

Technical drawing showing a bolted connection. The bolt passes through the post and block but not through the rail. The bolt shall extend through the post and block but not through the rail. The drawing includes a breakaway line for the post and block, and a dimension of 1'-9" for the height of the post. The slope is indicated as 10:1 or flatter.

SECTION A - A

SUMMARY OF COMPONENTS

6'-3"

1'-0" 1'-4"

(E1) GI

(LI) ANCHOR PLATE

(E1) SHORT WOODEN BREAKAWAY POST

(B) B

(T1) SHELF ANGLE

(B2) CABLE

(M1) BEARING PLATE

2 3/8" Ø HOLE

(R2) 3/4" Ø X 10" HEX HD. BOLT W/
(U2) HEX NUT & (2) FLAT WASHERS

(N2) (2) 3/4" Ø X 7 1/2" HEX
(U2) HD BOLT W/ HEX NUT &
(Y2) (2) FLAT WASHERS EACH

(W2) 1" Ø HEX NUT
(Z2) 1" Ø FLAT WASHER

(N2) (U2) (Y2)

(SI) SOIL PLATE

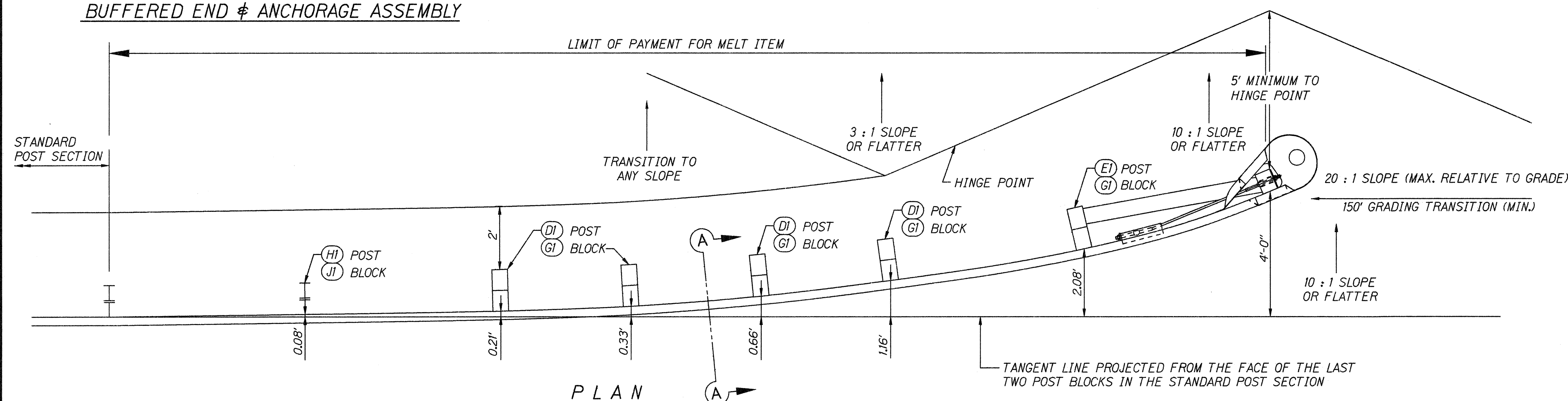
(K1) STEEL TUBE

4'-10"

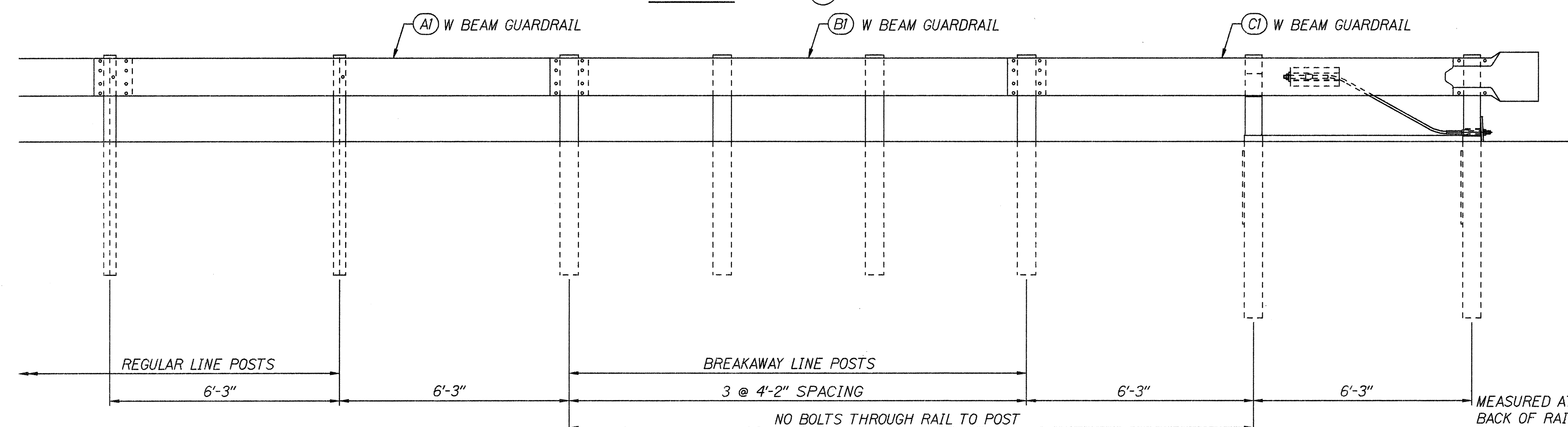
ELEVATION

BUFFERED END & ANCHORAGE ASSEMBLY

ANCHOR PLATE ASSEMBLY DETAILS



P L A N



E L E V A T I O N

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.

POST LAYOUT & ERECTION DETAILS

F.A. PROJECT NO. NH-011-2(33)

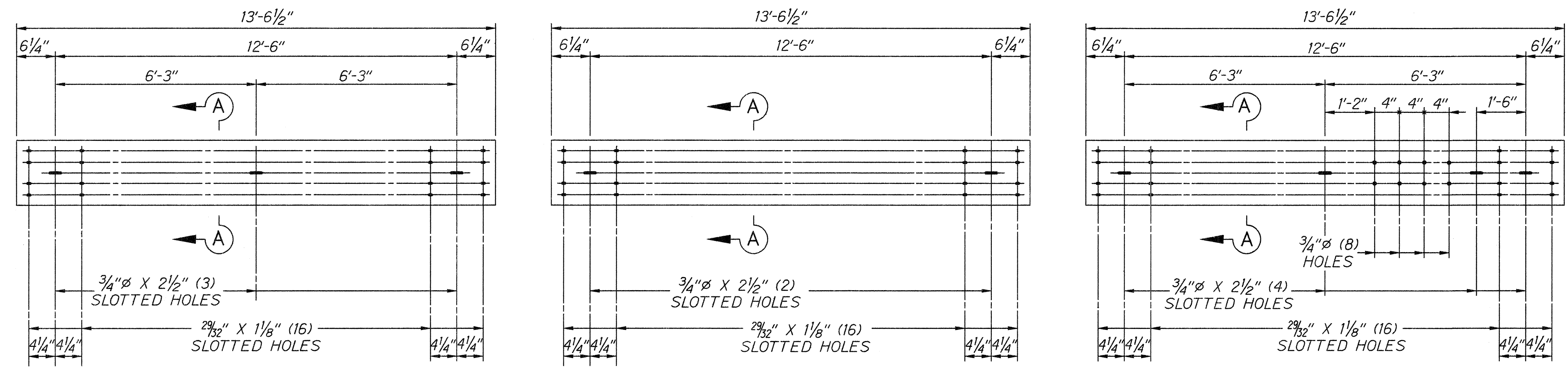
Not to Scale Date: April, 1996

SHEET No. 1 OF 3 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY <u>X</u>	_____
dd4 jason	DESIGNED BY <u>X</u>	_____
4n4nmd1	QUANTITIES BY _____	_____
	CHECKED BY _____	_____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-011-2(33)	1996	100	102

MATERIAL SCHEDULE					
FIND No.	PIECE MARK	MATERIAL	LENGTH FEET	WEIGHT INCHES	UNIT 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

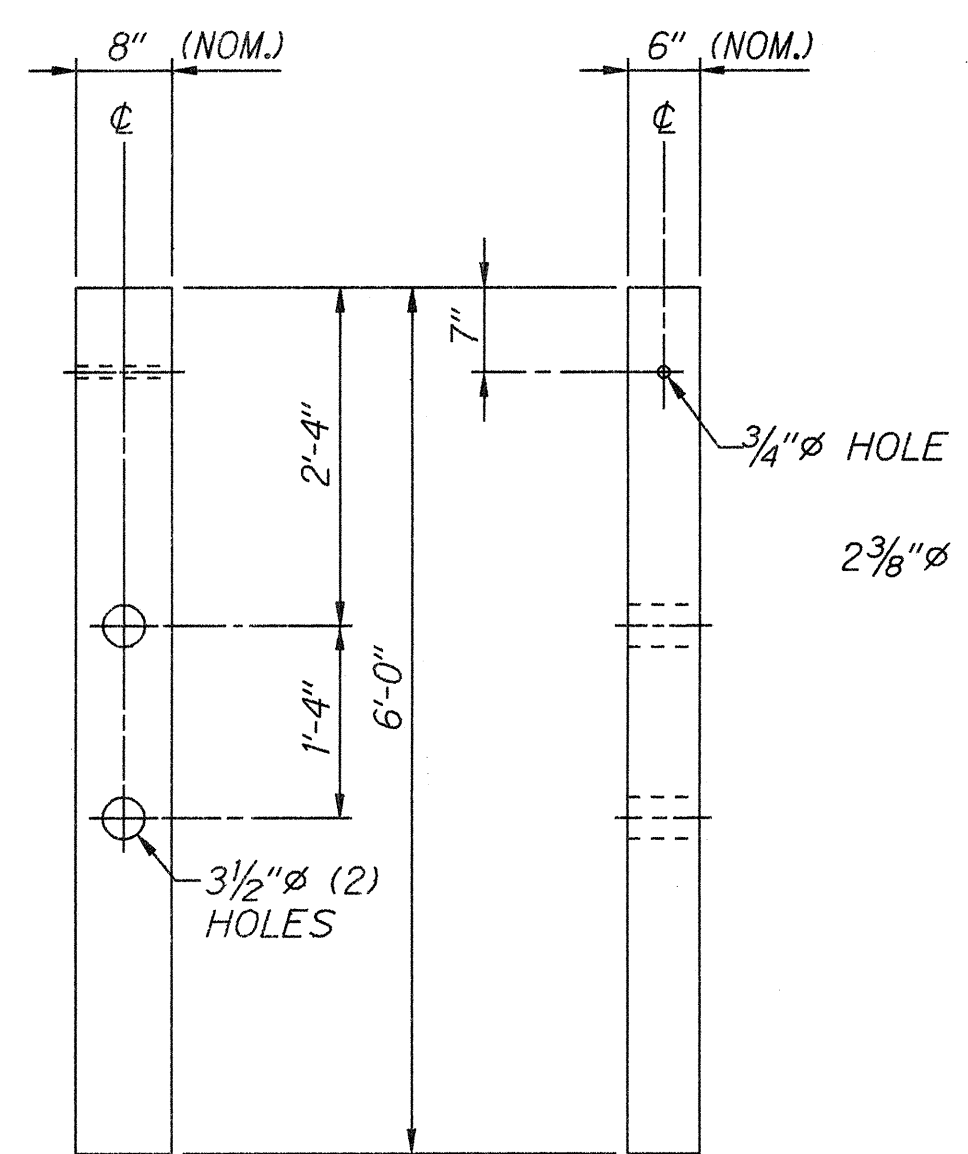


ONE - GUARDRAIL - A1

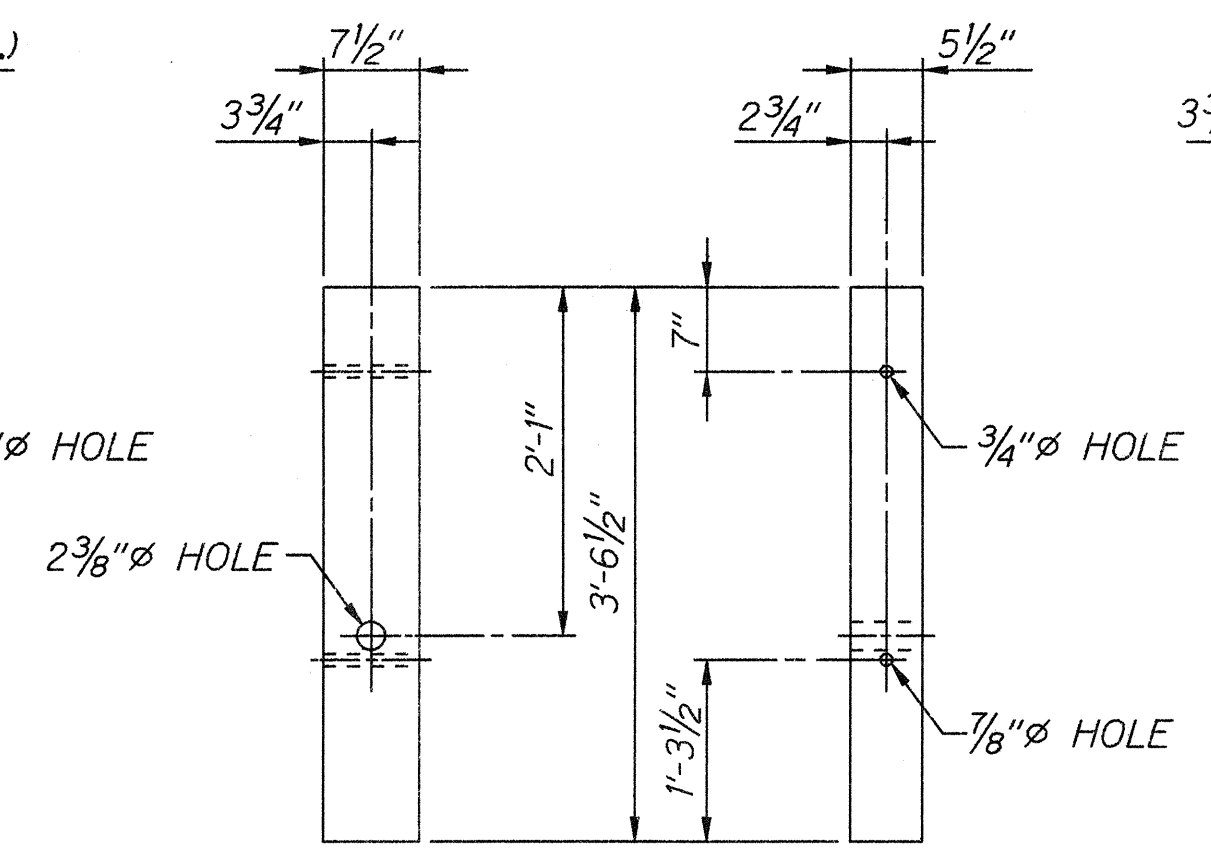
ONE - GUARDRAIL - B1

ONE - GUARDRAIL - C1

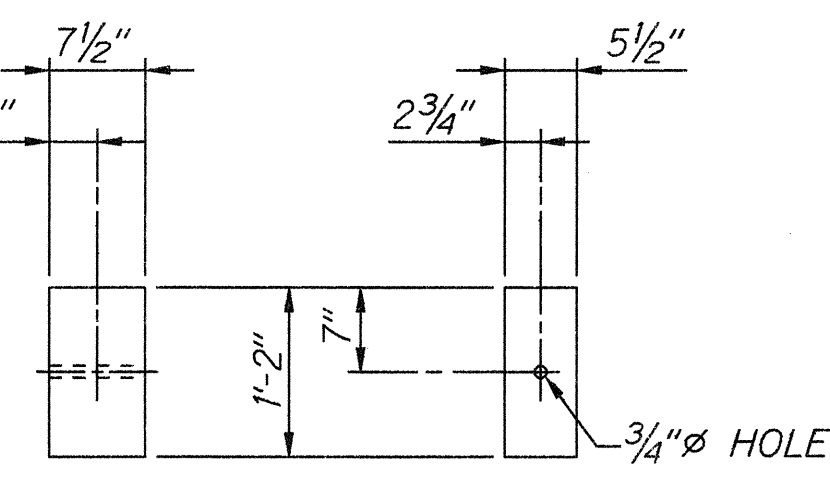
SECTION A - A



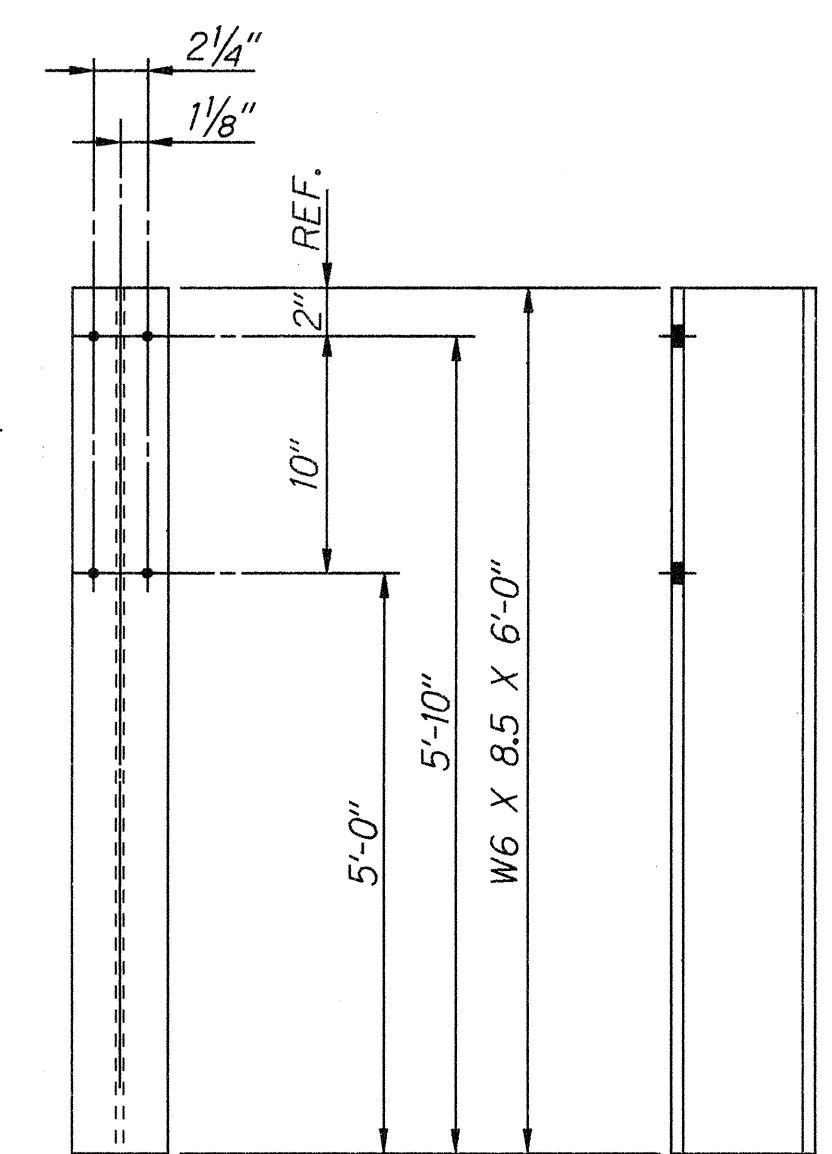
4 - WOOD POST - D1



2 - WOOD POST - E1

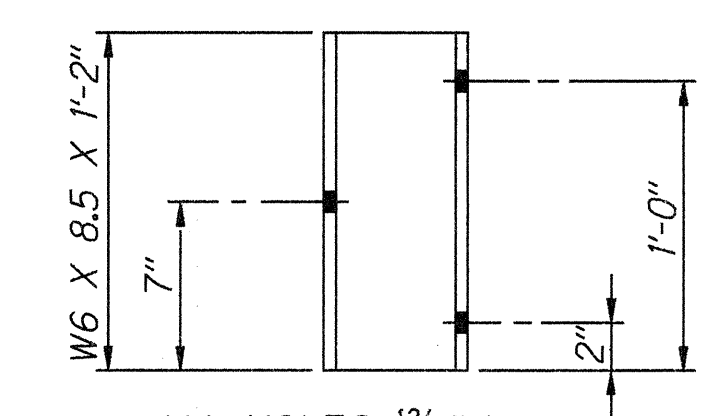


5 - WOOD BLOCK - G1



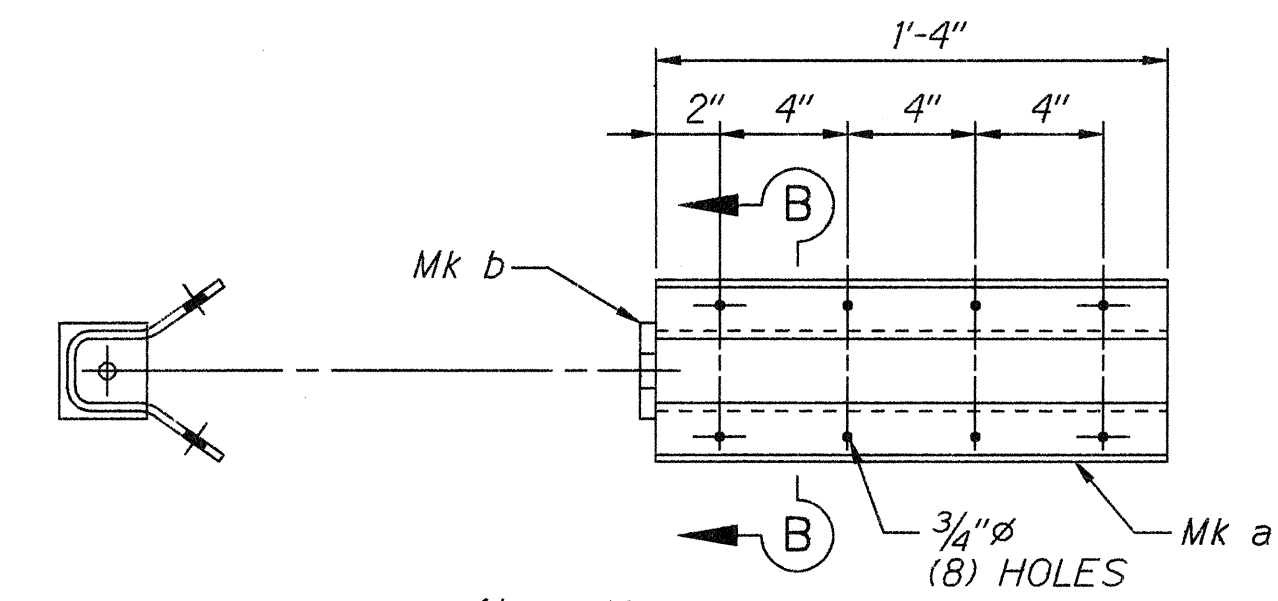
ALL HOLES 1 3/16" (4) REQUIRED

ONE - POST - H1

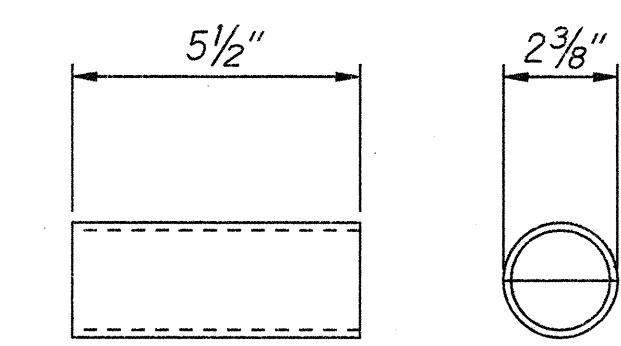


ALL HOLES 1 3/16" (6) REQD. @ 2 1/4" GA

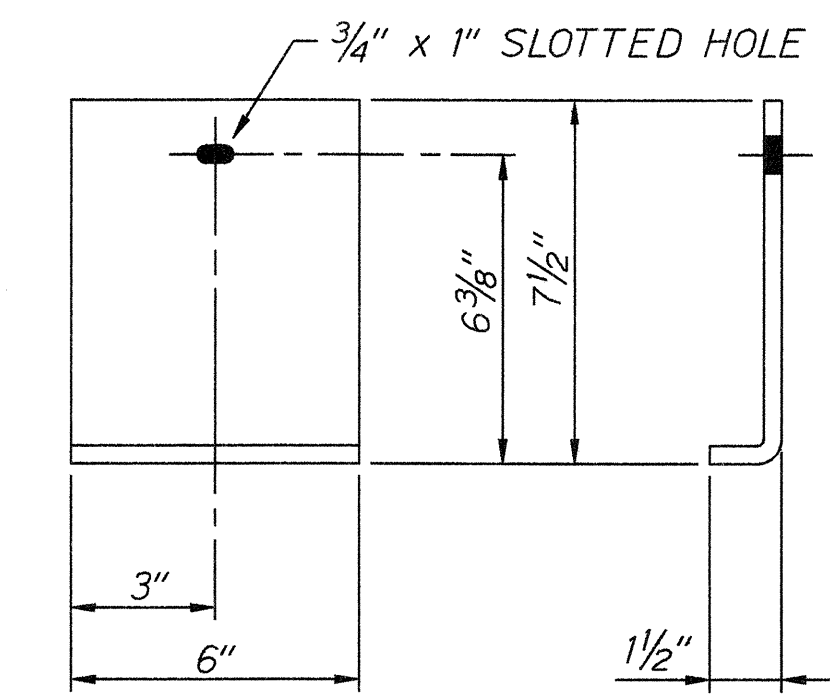
ONE - BLOCK - J1



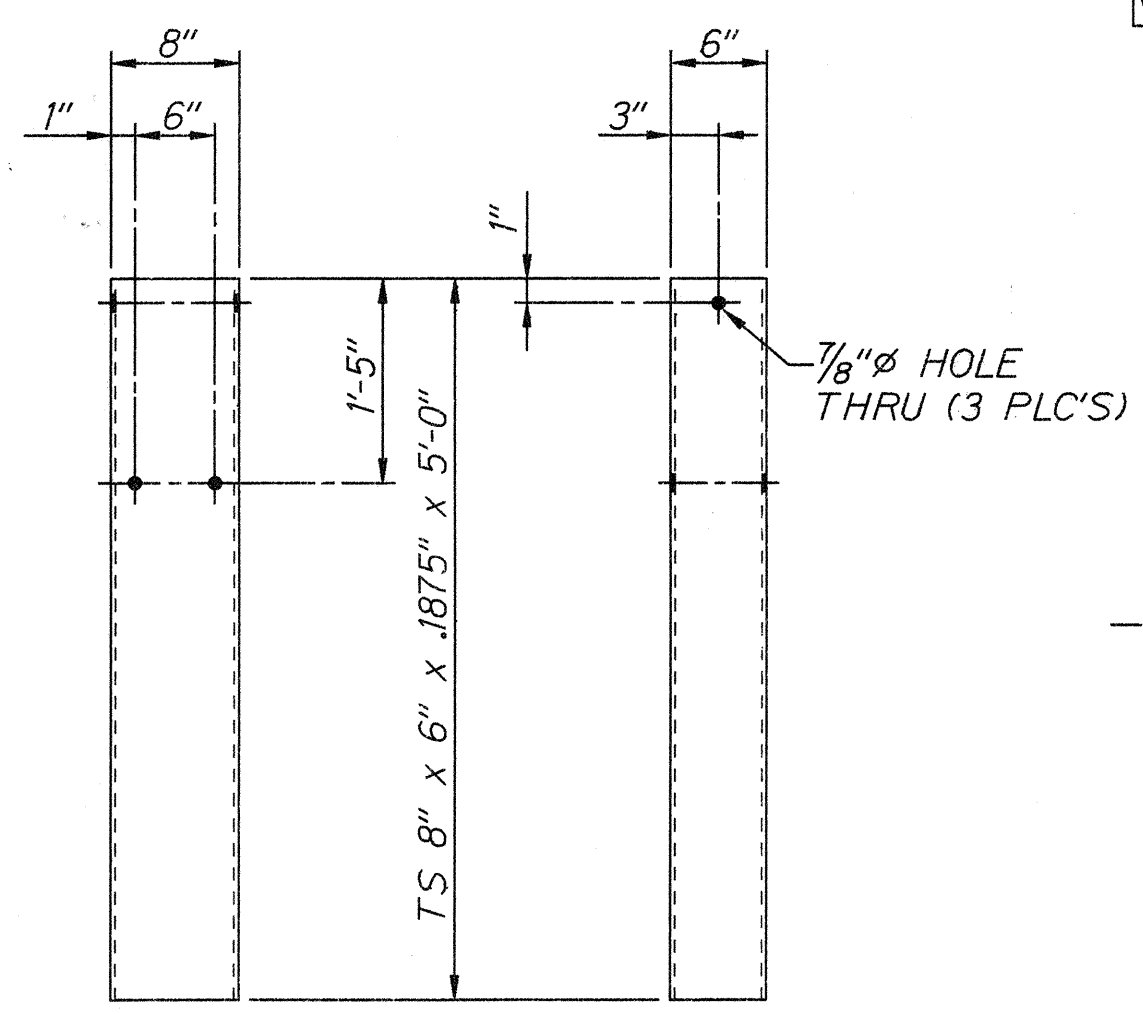
ONE - CABLE ANCHOR BRACKET - L1



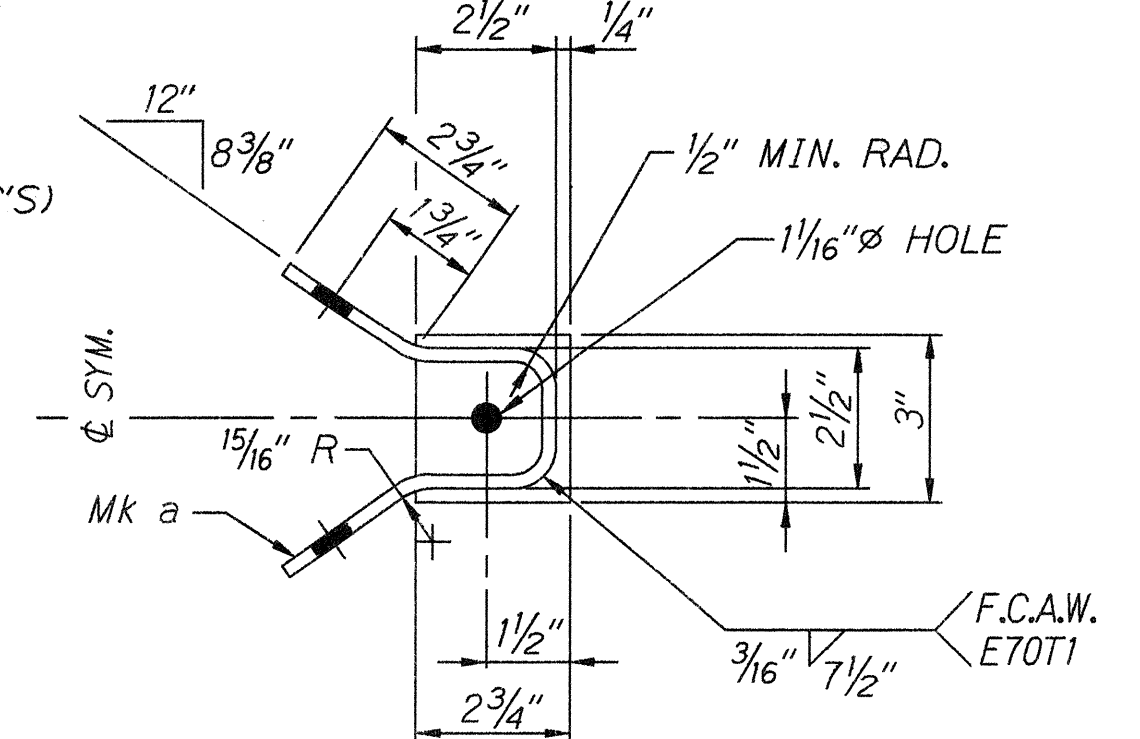
ONE - PIPE SPACER - R1



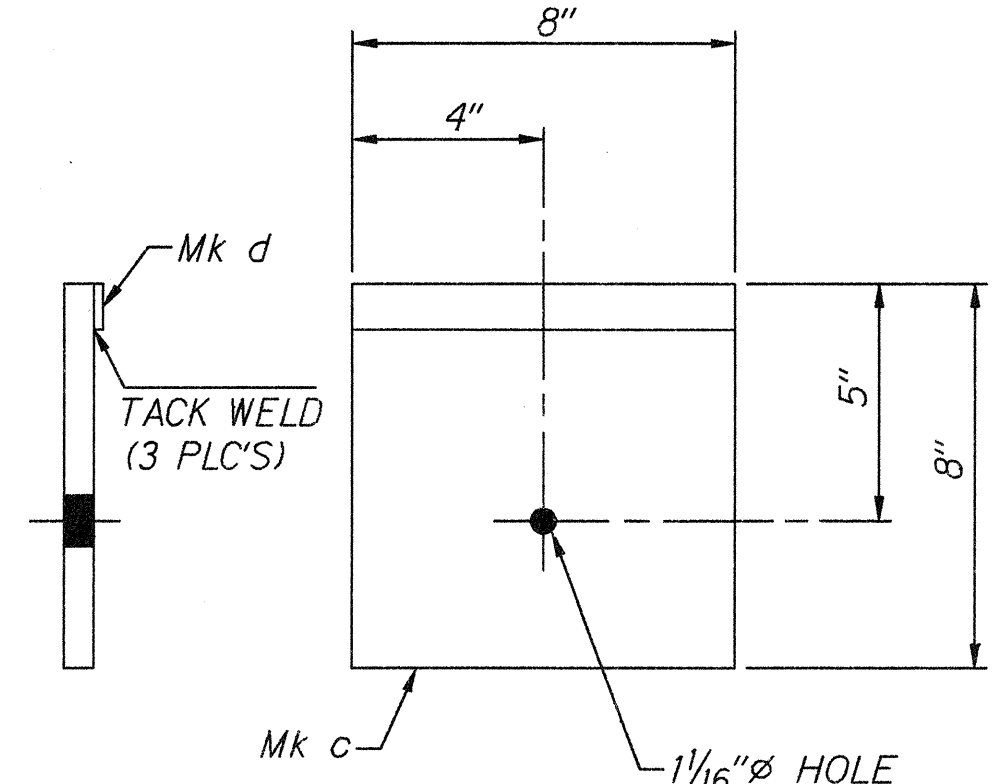
ONE - SHELF ANGLE - T1



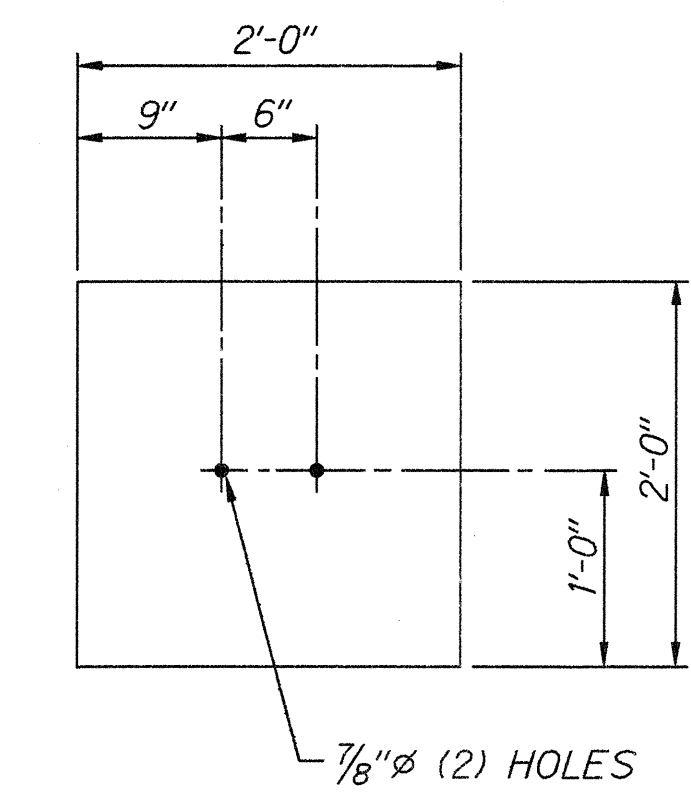
2 - SOIL TUBE - K1



SECTION B - B



ONE - BEARING PLATE - M1



2 - SOIL PLATE - S1

DESIGNED BY	DATE
DRAWN BY	1/1/96
CHECKED BY	
NOTED BY	
APPROVED BY	
ORIGINAL PLAN	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
MODIFIED ECCENTRIC LOADER
TERMINAL (MELT)
COMPONENT DETAILS
F.A. PROJECT NO. NH-011-2(33)
Not to Scale Date: April, 1996
SHEET No. 2 OF 3 SHEETS

