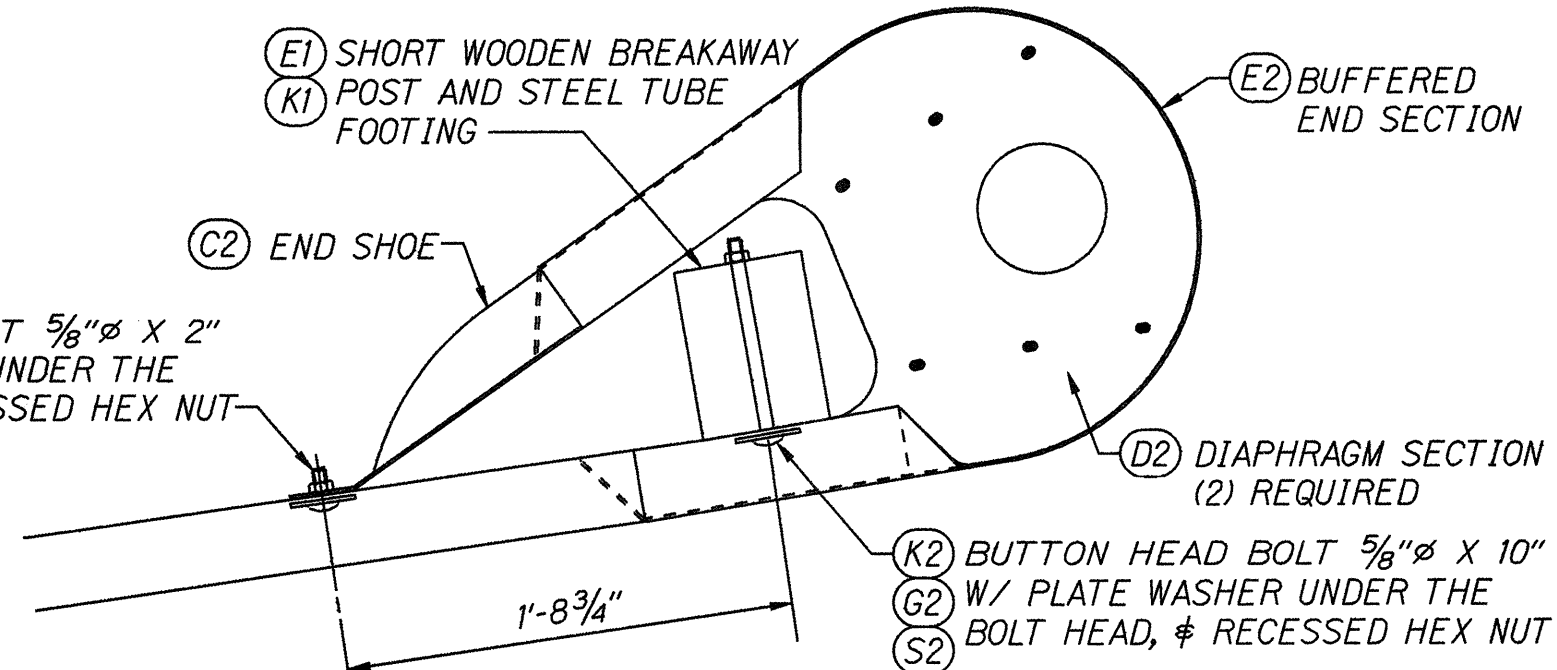


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-019-2(32)	1995	24	26

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.

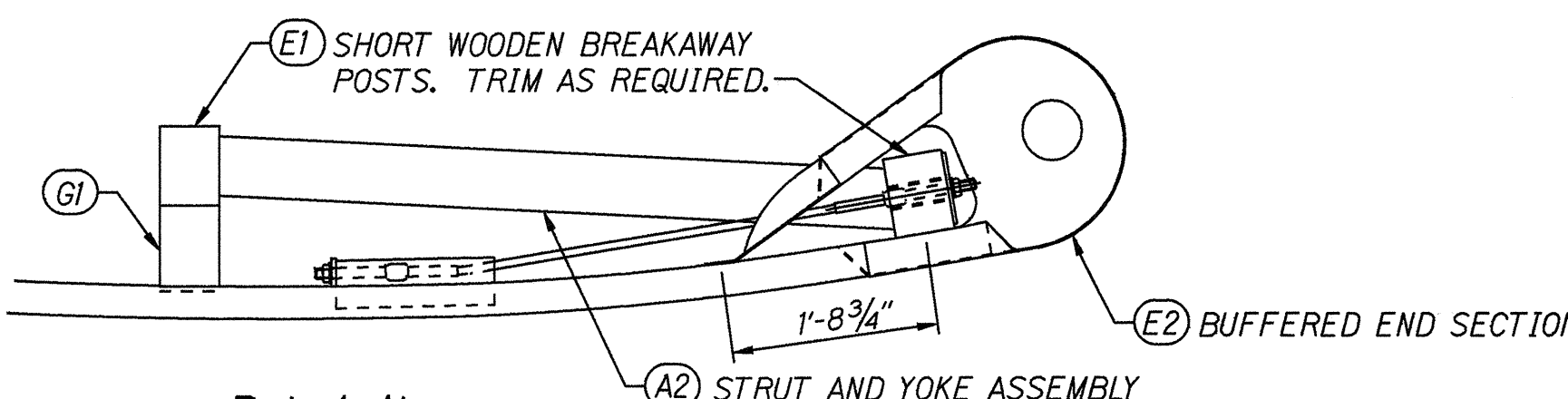


BUFFERED END ASSEMBLY

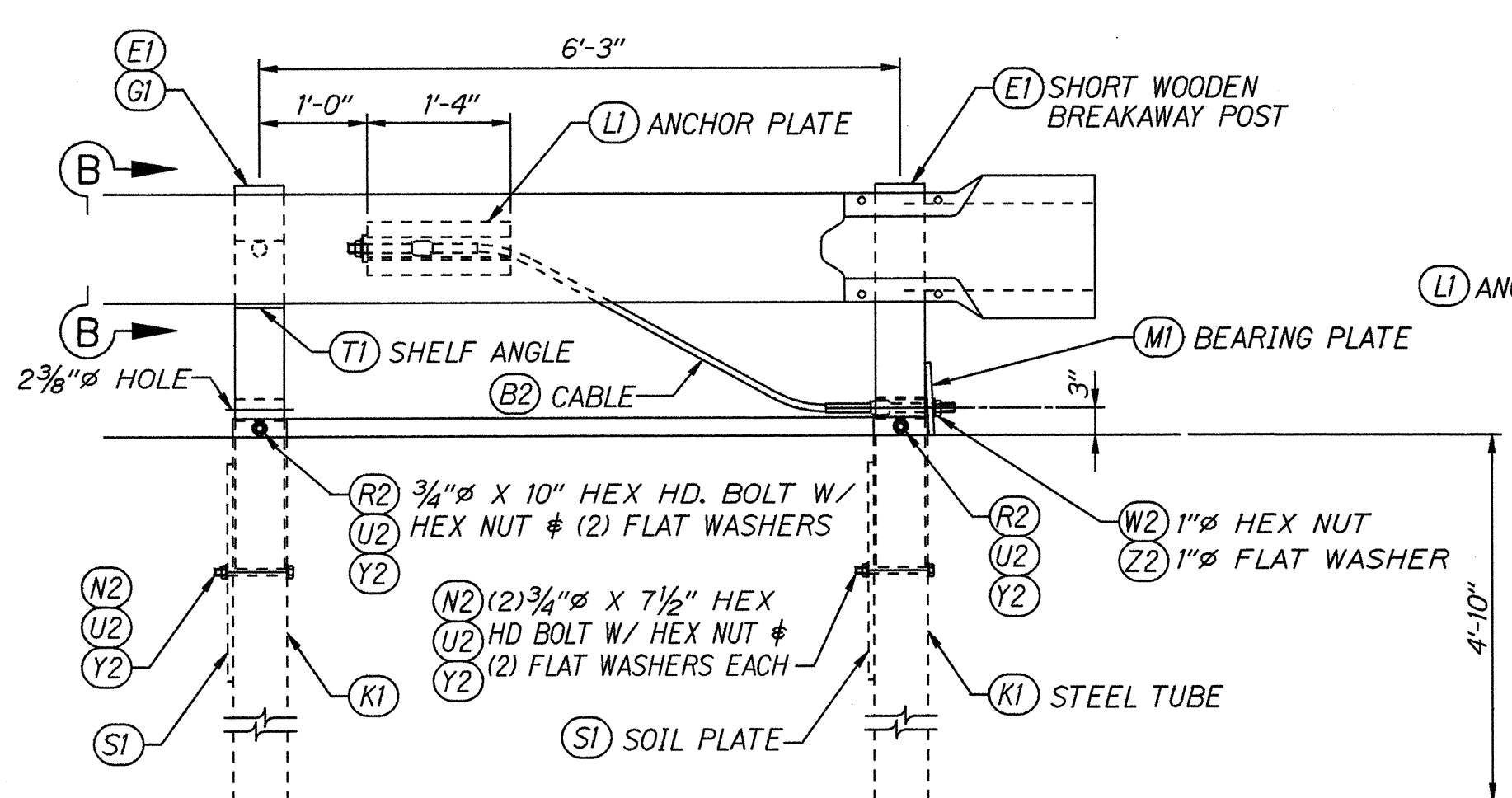
SUMMARY OF COMPONENTS

FIND NO.	DESCRIPTION
(A)	GUARDRAIL, 12GA X 12'-6"
(B)	GUARDRAIL, 12GA X 12'-6"
(C)	GUARDRAIL, 12GA X 12'-6"
(D)	BREAKAWAY LINE POST, TIMBER - 6" X 8" X 6'-0"
(E)	BREAKAWAY POST, TIMBER - 5 1/2" X 7 1/2" X 3'-6 1/2"
(G)	BLOCK, TIMBER - 5 1/2" X 7 1/2" X 1'-2"
(H)	POST - W6 X 8.5 X 6'-0"
(J)	BLOCK - W6 X 8.5 X 1'-2"
(K)	SOIL TUBE - TS 8 X 6 X .188 X 5'-0"
(L)	CABLE ANCHOR BRACKET
(M)	BEARING PLATE
(R)	PIPE SPACER
(S)	SOIL PLATE
(T)	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"

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.

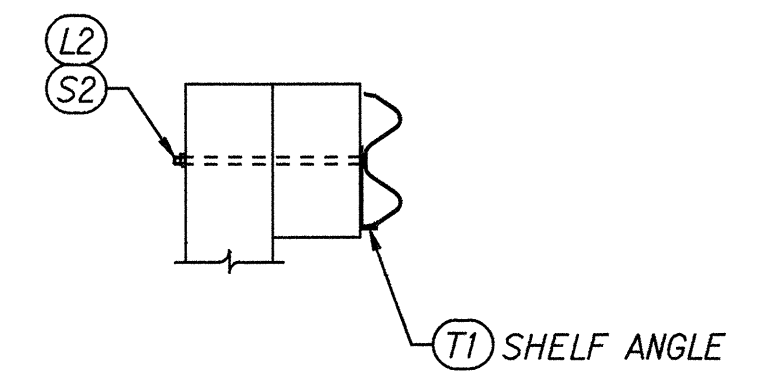


PLAN

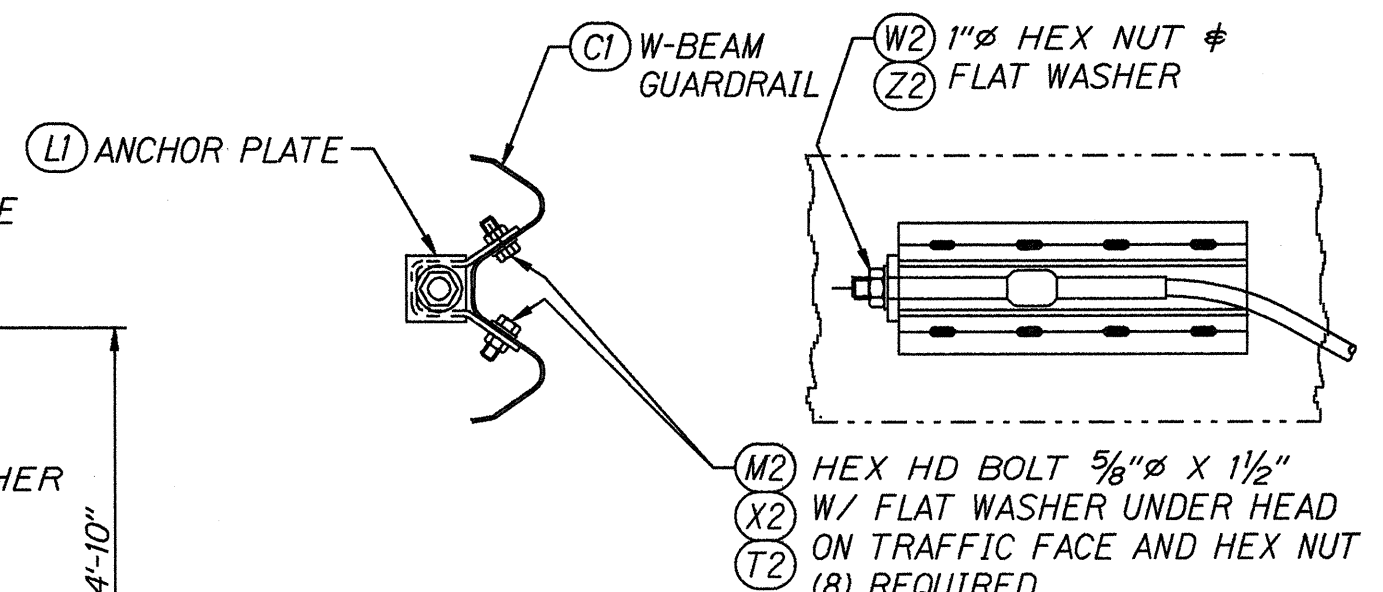


ELEVATION

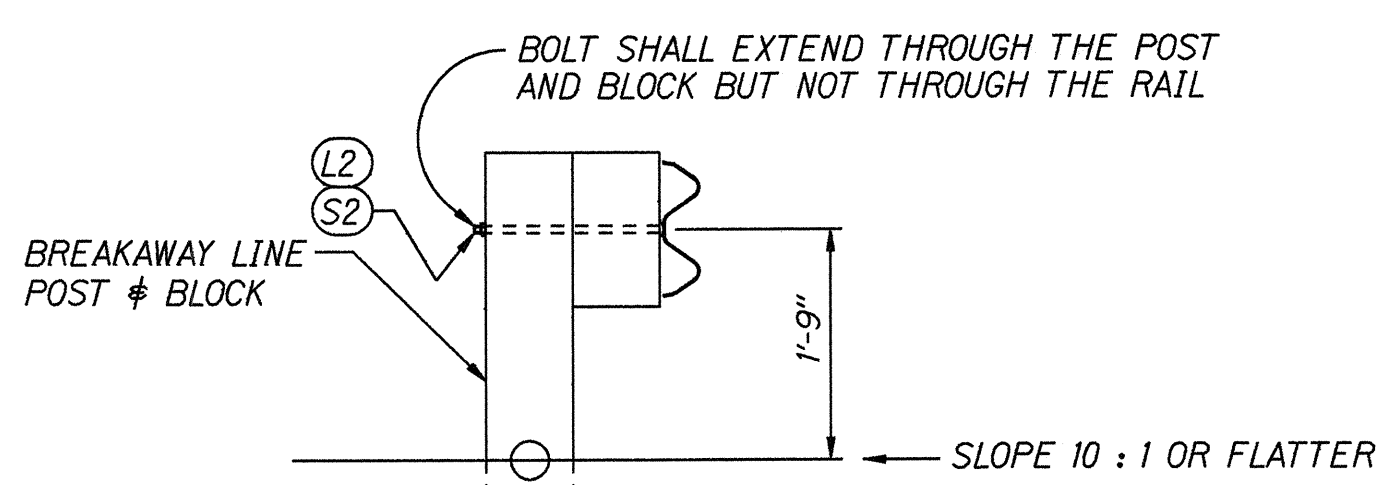
BUFFERED END & ANCHORAGE ASSEMBLY



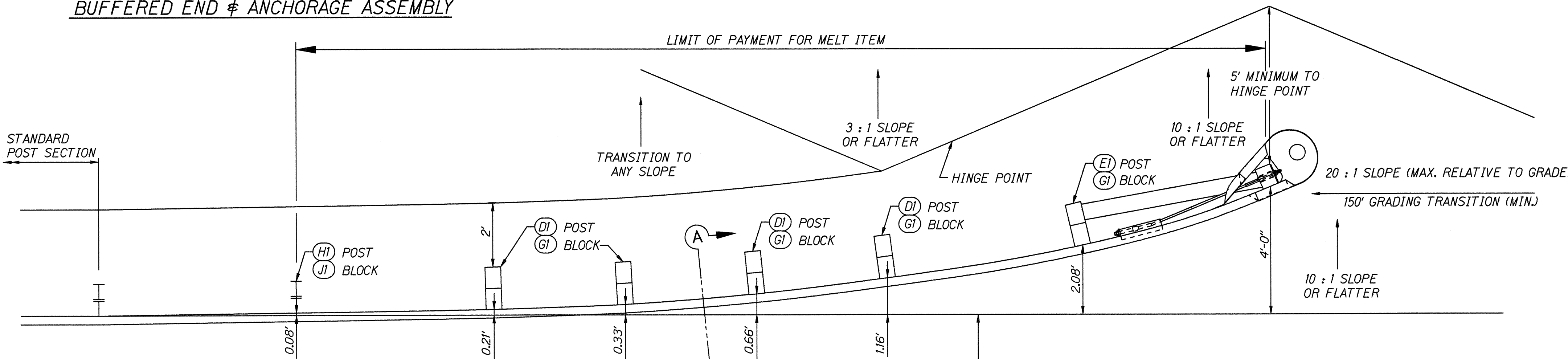
SECTION N - B - B



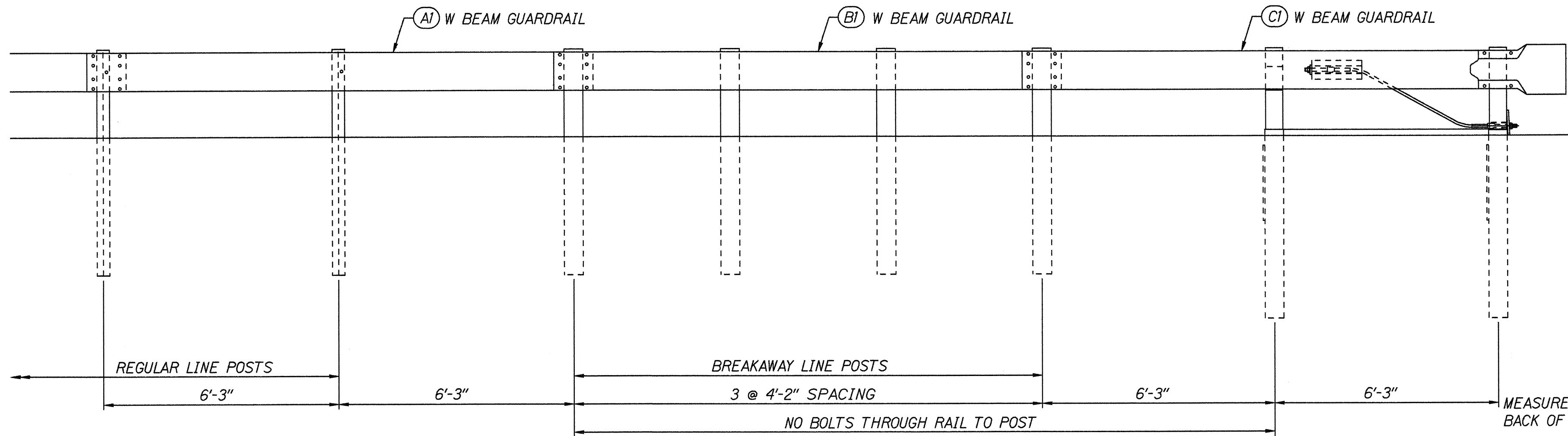
ANCHOR PLATE ASSEMBLY DETAILS



SECTION N - A - A



PLAN



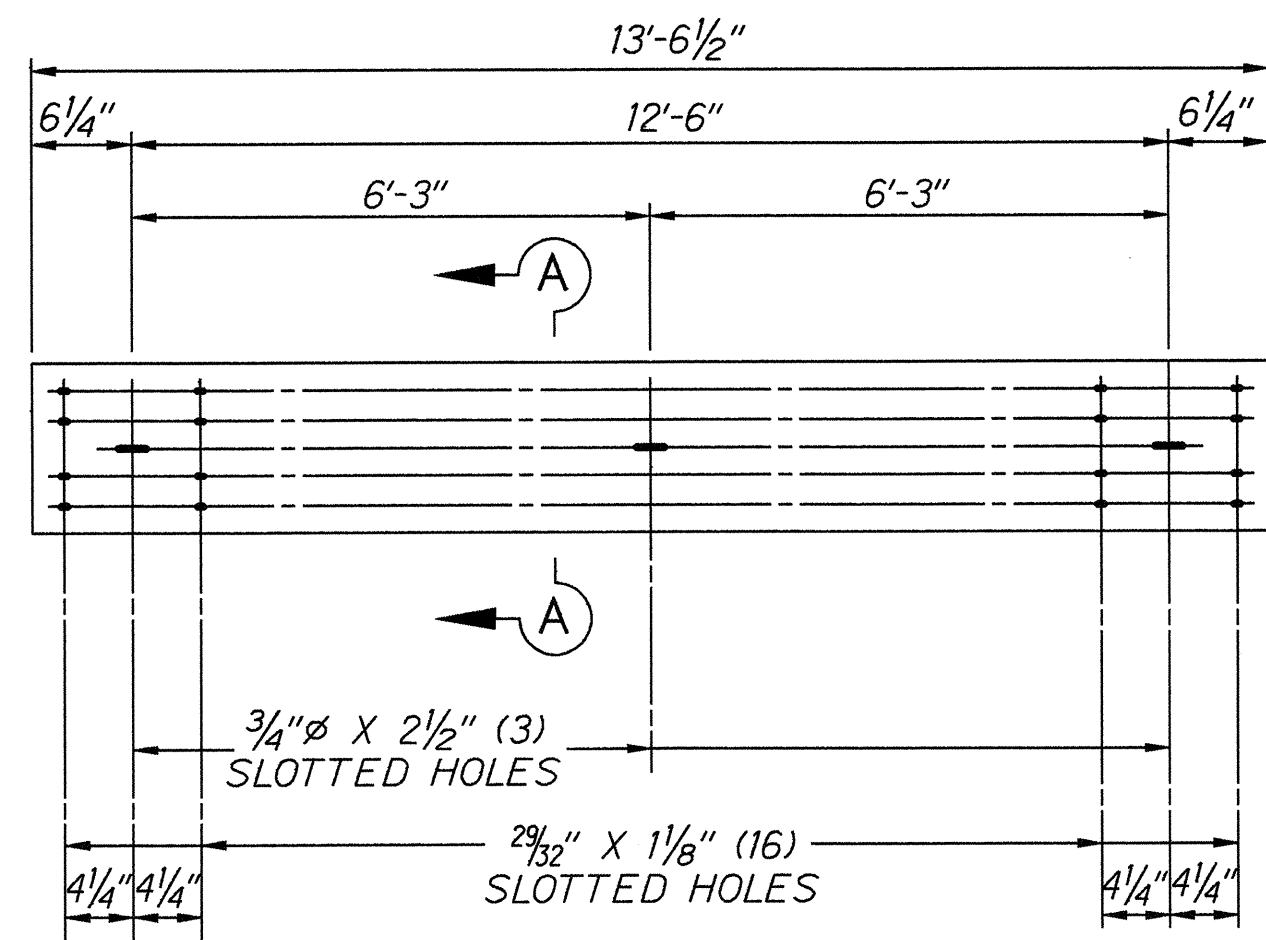
ELEVATION

DATE	10/1/94
DESIGNED BY	delm
CHECKED BY	delm
QUANTITIES BY	delm
NOTED BY	delm
ORIGINAL PLAN	

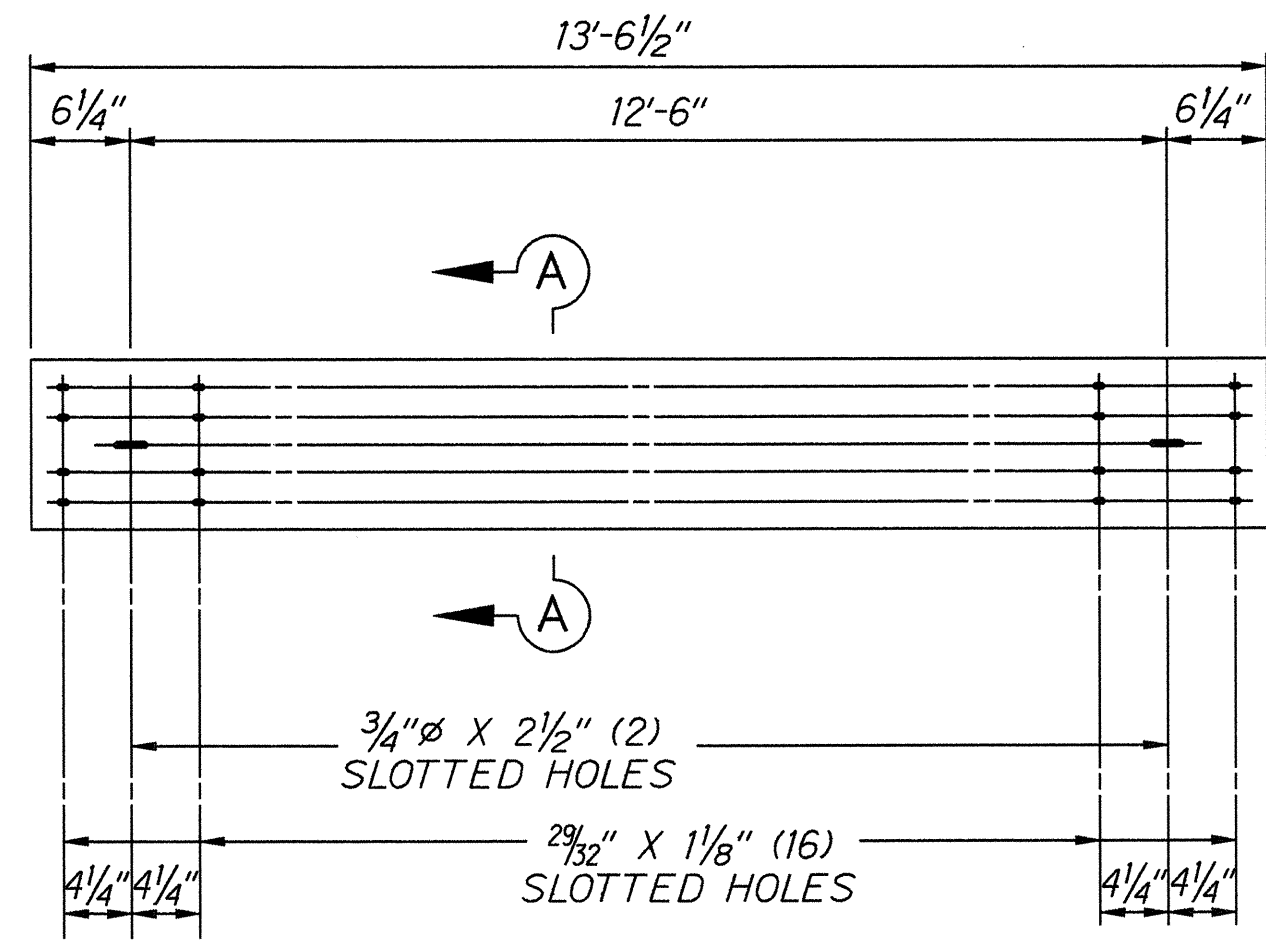
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**MODIFIED ECCENTRIC LOADER
TERMINAL (MELT)**
POST LAYOUT & ERECTION DETAILS
KAMEHAMEHA AVENUE RESURFACING
WAILOA BRIDGE TO KUHIO WHARF
F.A. PROJECT NO. STP-019-2(32)
Not to Scale Date: April, 1995
SHEET No. 1 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-019-2(32)	1995	25	26

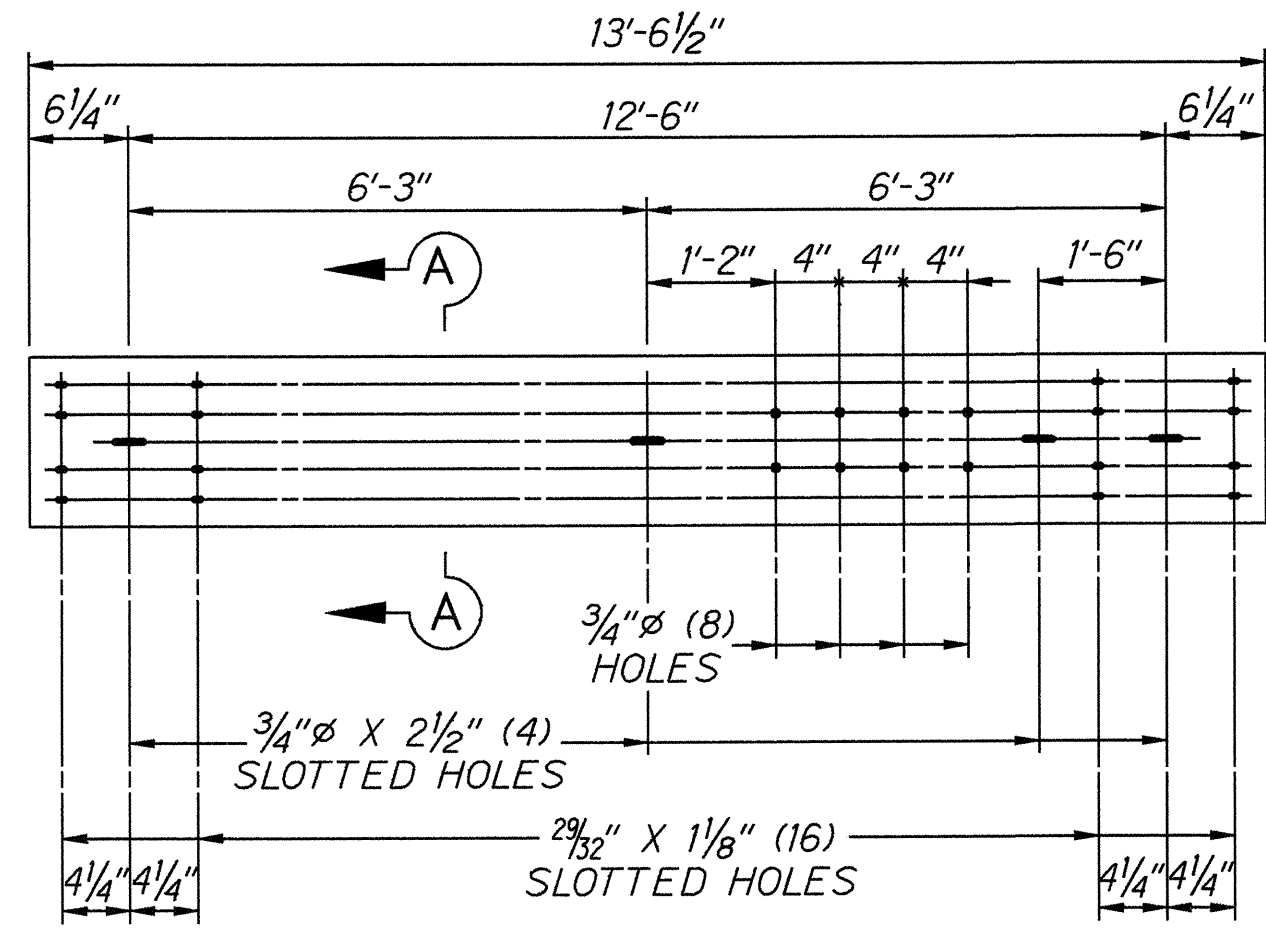
MATERIAL SCHEDULE					
FIND No.	PIECE MARK	MATERIAL	LENGTH FEET	WEIGHT INCHES	UNIT WEIGHT
AI		GUARDRAIL, W-BEAM			95.0
		12 GA. W-BEAM GUARDRAIL	12	6	89.0
BI		GUARDRAIL, W-BEAM			95.0
		12 GA. W-BEAM GUARDRAIL	12	6	89.0
CI		GUARDRAIL, W-BEAM			95.0
		12 GA. W-BEAM GUARDRAIL	12	6	89.0
DI		BREAKAWAY LINE POST			88.0
		TIMBER POST 6 X 8	6	0	352.0
EI		BREAKAWAY POST, SHORT			44.6
		TIMBER POST 5 1/2 X 7 1/2	3	6 1/2	89.2
GI		BLOCK			16.8
		TIMBER BLOCK 5 1/2 X 7 1/2	1	2	84.0
HI		POST			54.9
		W6 X 8.5	6	0	52.0
JI		BLOCK			11.0
		W6 X 8.5	1	2	10.1
KI		SOIL TUBE			88.9
		TS 8 X 6 X .1875	5	0	170.8
LI		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
MI		BEARING PLATE			11.9
	c	PL 5/8 X 8	0	8	11.3
	d	PL 3/16 X 1	0	8	0.4
RI		PIPE SLEEVE			1.76
		PIPE 2" STD	0	5 1/2	1.67
SI		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 - AI

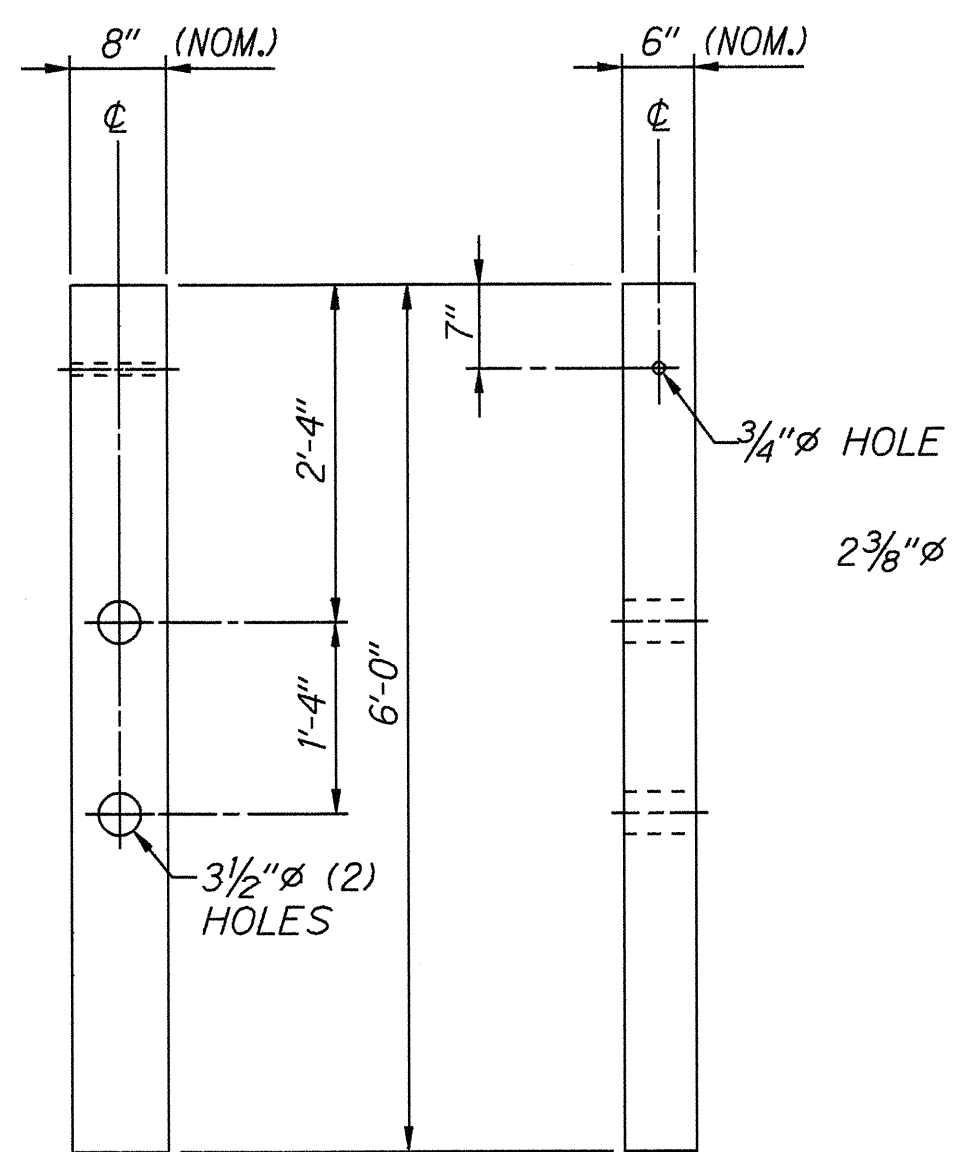


ONE - GUARDRAIL - BI

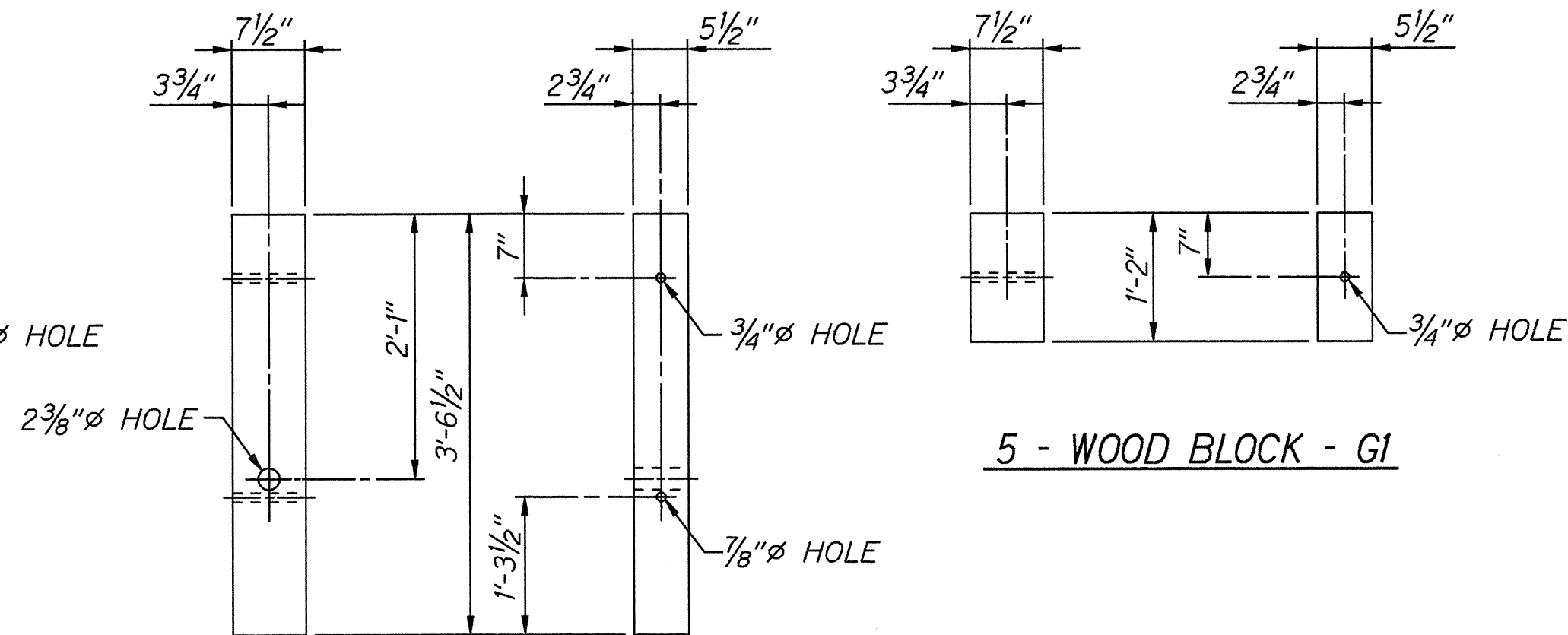


ONE - GUARDRAIL - CI

SECTION A - A

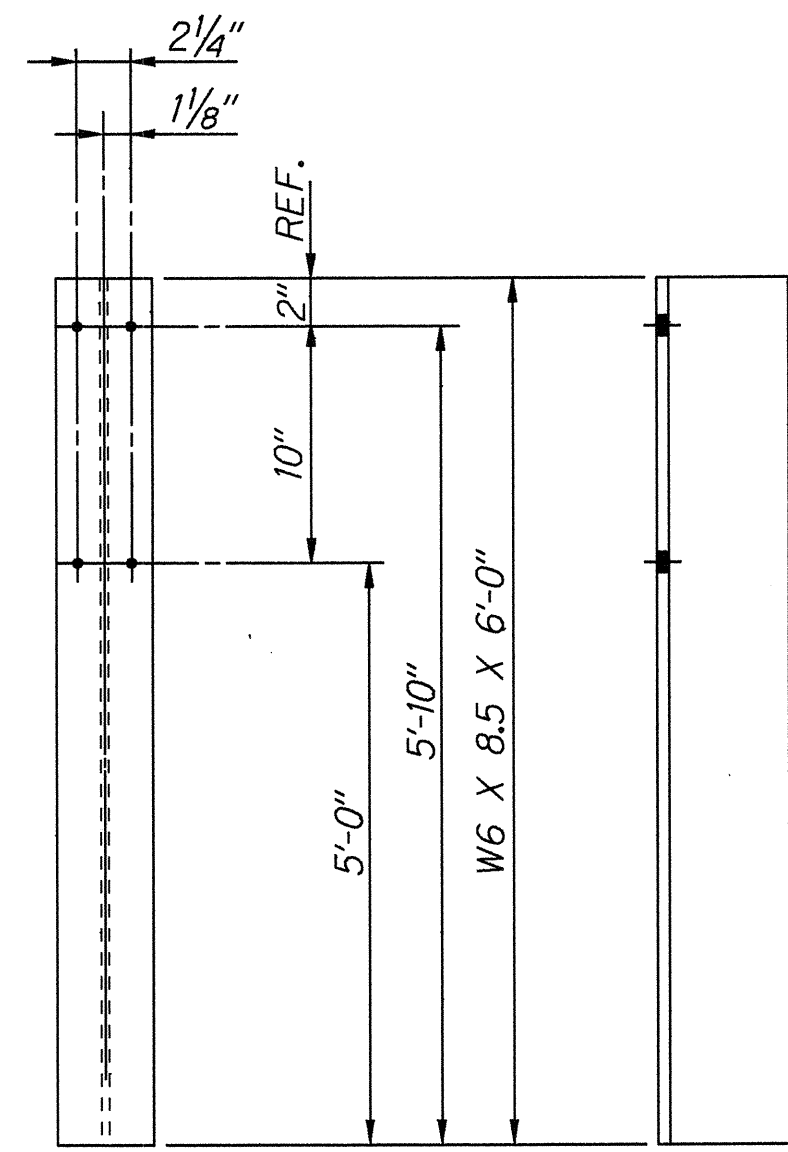


4 - WOOD POST - DI

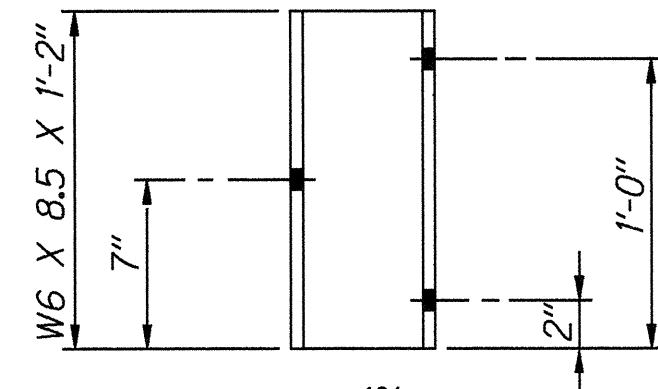


5 - WOOD BLOCK - GI

2 - WOOD POST - EI

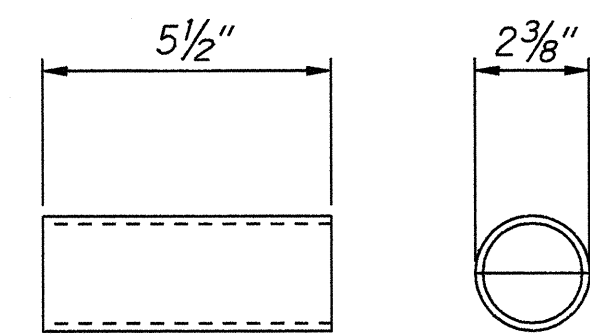


ONE - POST - HI

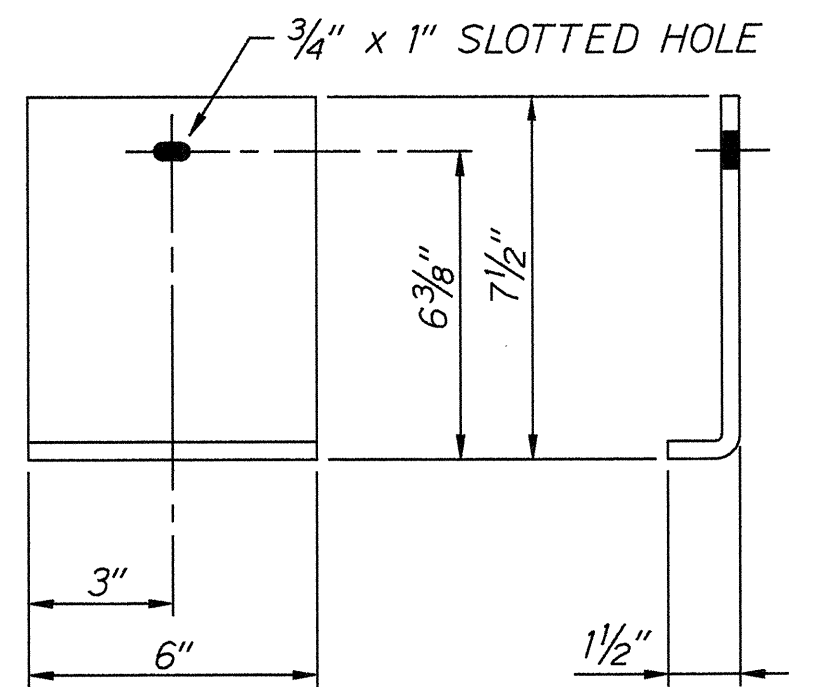


ALL HOLES 1 3/16" (6) REQD. @ 2 1/4" GA

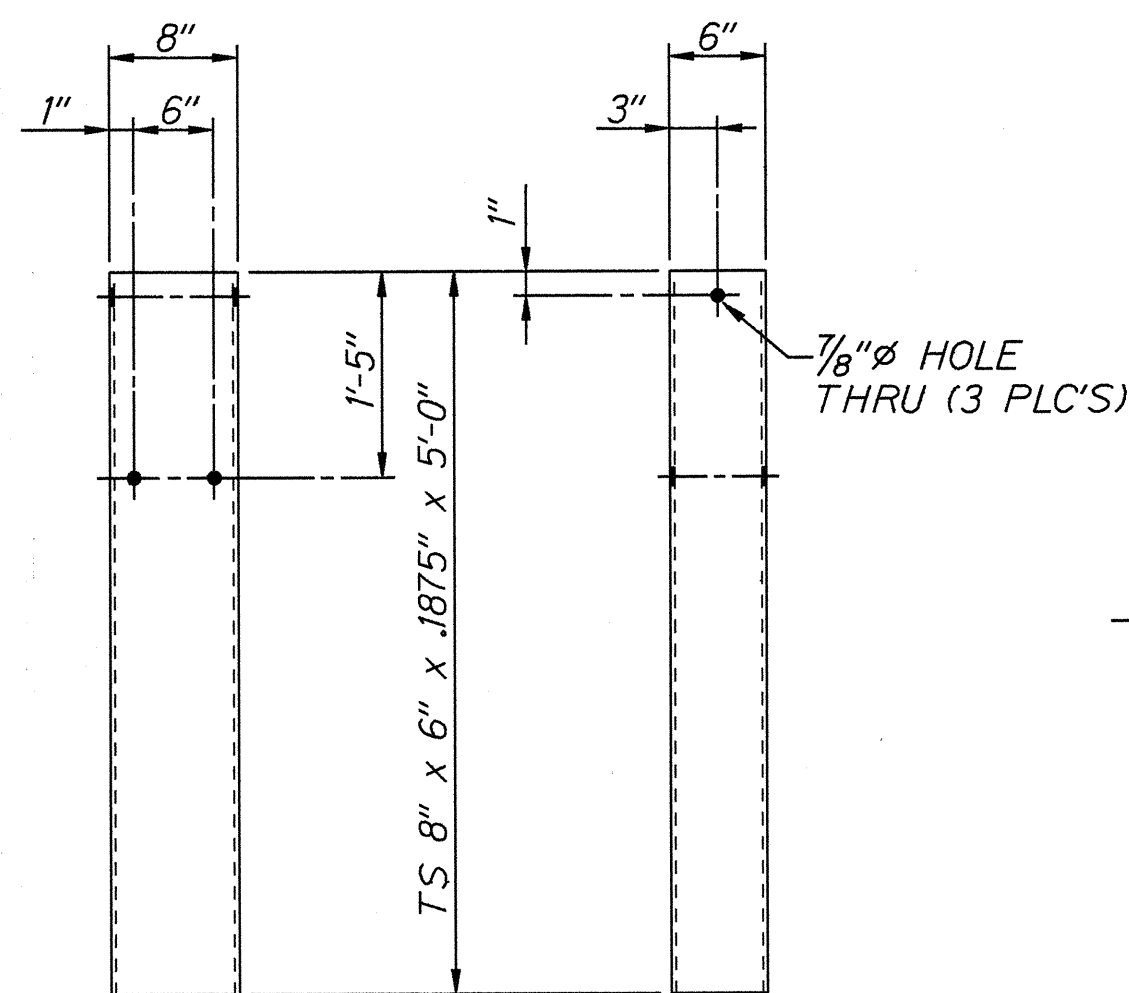
ONE - BLOCK - JI



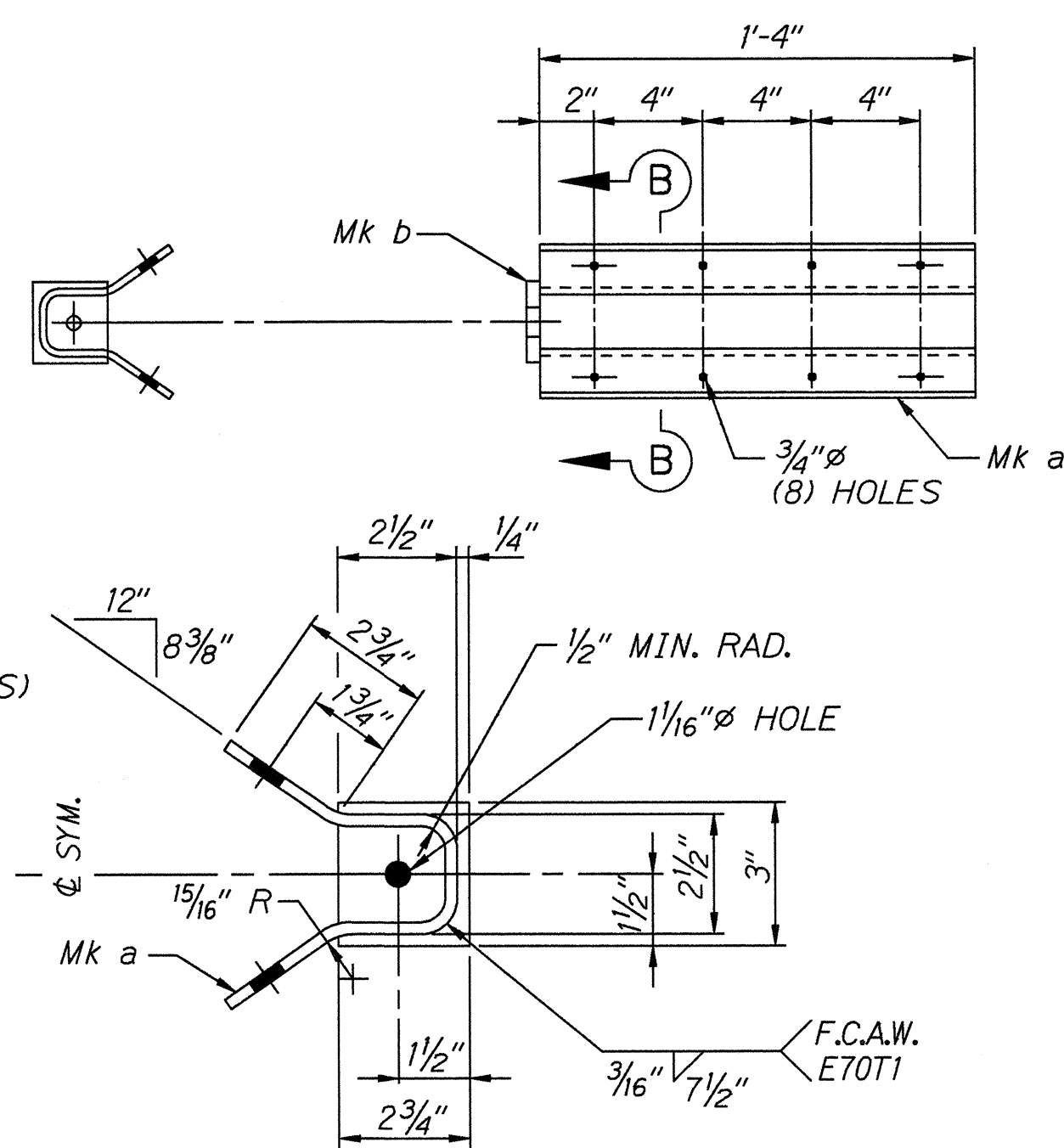
ONE - PIPE SPACER - RI



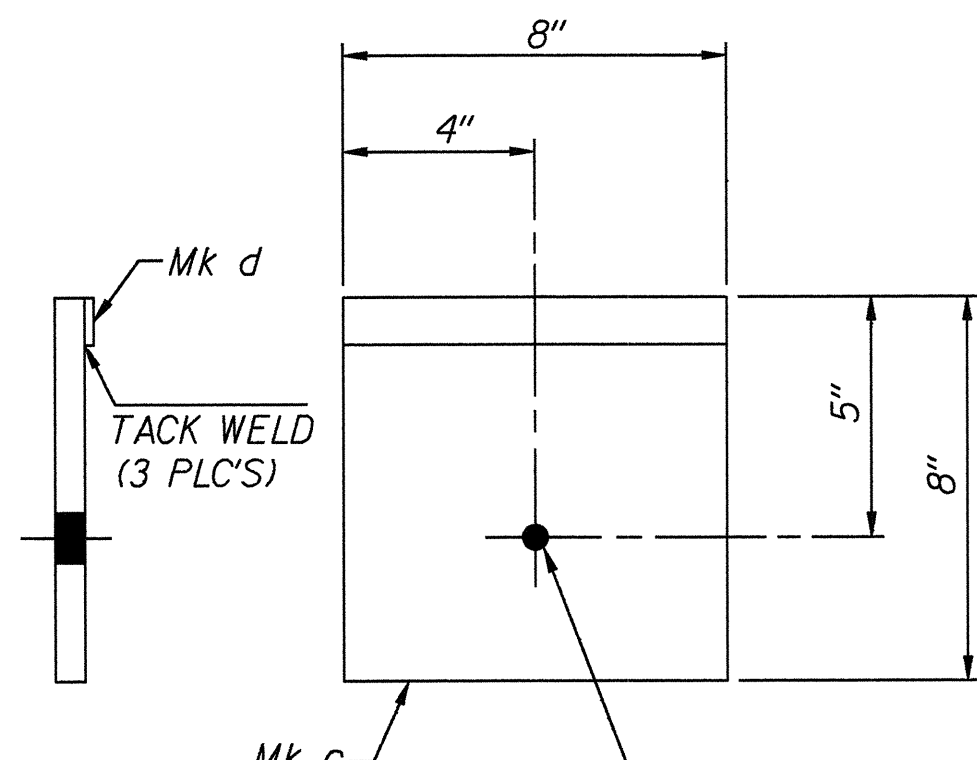
ONE - SHELF ANGLE - T1



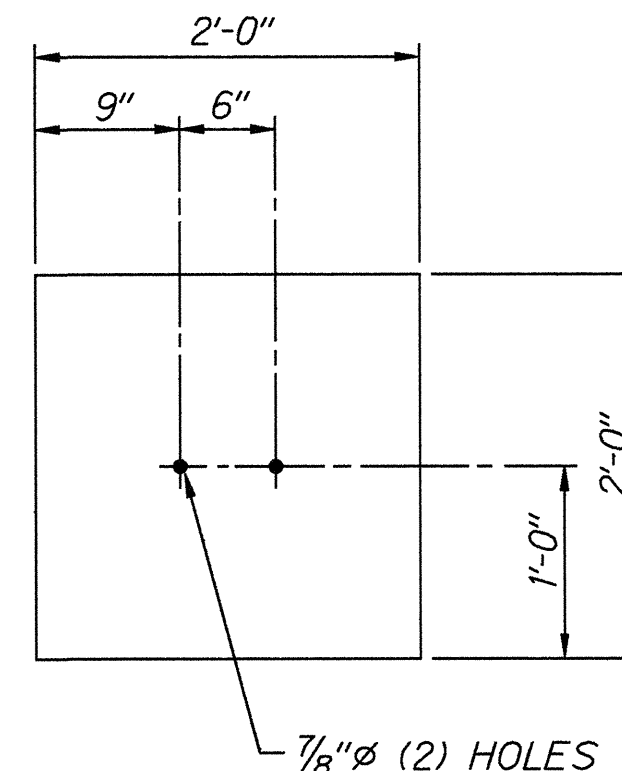
2 - SOIL TUBE - KI



ONE - CABLE ANCHOR BRACKET - LI



ONE - BEARING PLATE - MI



2 - SOIL PLATE - SI

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
QUANTITIES BY	DESIGNED BY	
CHECKED BY	REVIEWED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**MODIFIED ECCENTRIC LOADER
TERMINAL (MELT)**

COMPONENT DETAILS

KAMEHAMEHA AVENUE RESURFACING
WALOHA BRIDGE TO KUHIO WHARF
F.A. PROJECT NO. STP-019-2(32)

Not to Scale Date: April, 1995

SHEET No. 2 OF 3 SHEETS

