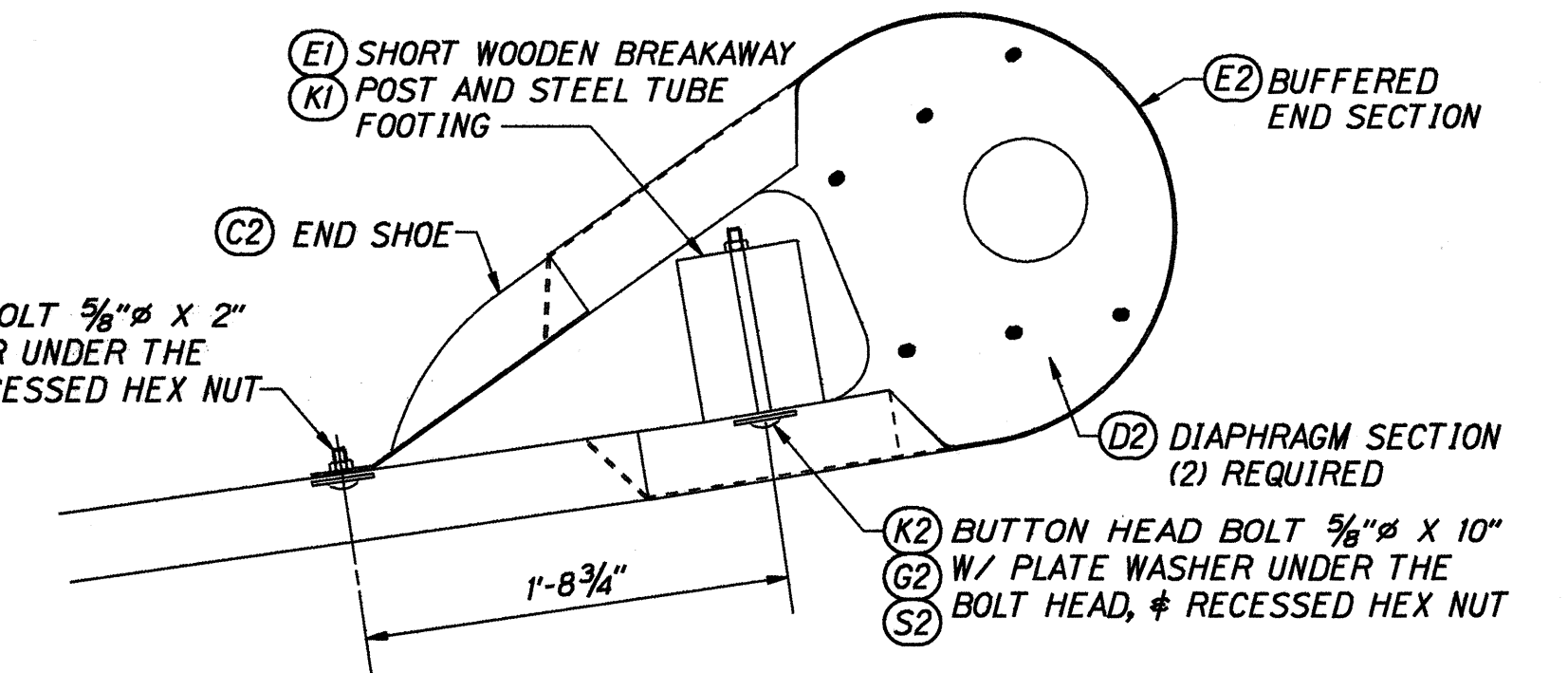


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-036-1(7)	1996	6	32

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

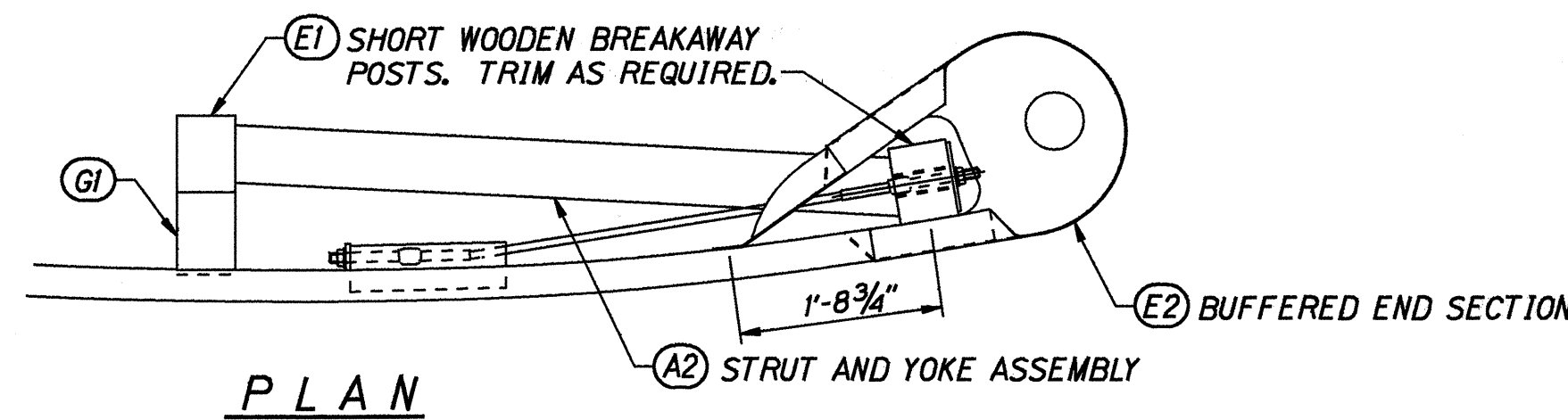
FIND NO.	DESCRIPTION
(A1)	GUARDRAIL, 12GA X 12'-6"
(B1)	GUARDRAIL, 12GA X 12'-6"
(C1)	GUARDRAIL, 12GA X 12'-6"
(D1)	BREAKAWAY LINE POST, TIMBER - 6" X 8" X 6'-0"
(E1)	BREAKAWAY POST, TIMBER - 5 1/2" X 7 1/2" X 3'-6 1/2"
(G1)	BLOCK, TIMBER - 5 1/2" X 7 1/2" X 1'-2"
(H1)	POST - W6 X 8.5 X 6'-0"
(J1)	BLOCK - W6 X 8.5 X 1'-2"
(K1)	SOIL TUBE - TS 8 X 6 X J88 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"

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.

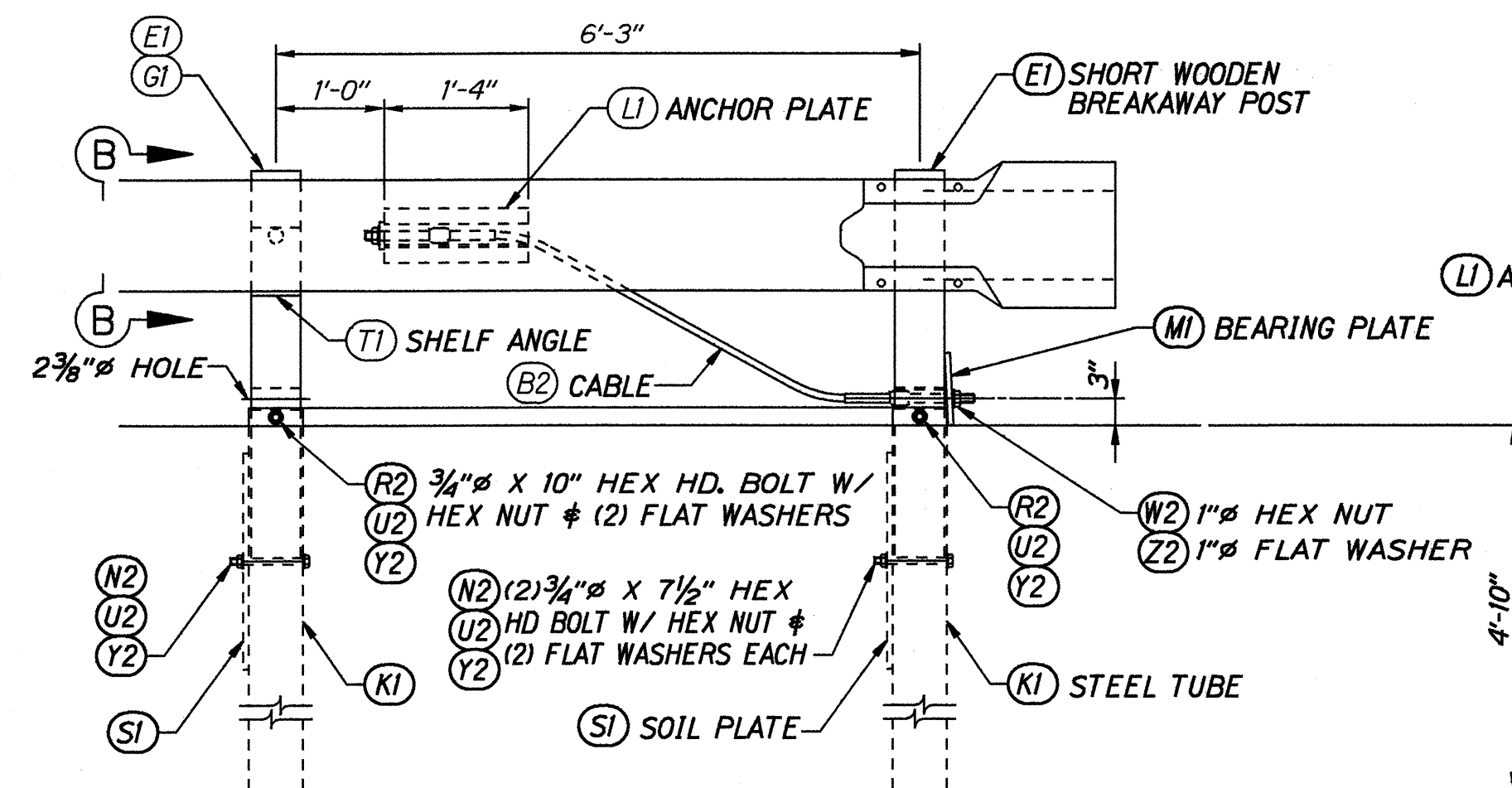
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MODIFIED ECCENTRIC LOADER
TERMINAL (MELT)
POST LAYOUT & ERECTION DETAILS
HANA HIGHWAY
GUARDRAIL & SHOULDER IMPROVEMENTS
Hookipa Park to Vicinity of Valley Isle Memorial Park
Fed. Aid Project No. STP-036-1(7)
Not to Scale
Date: July, 1995

SHEET No. 1 OF 3 SHEETS

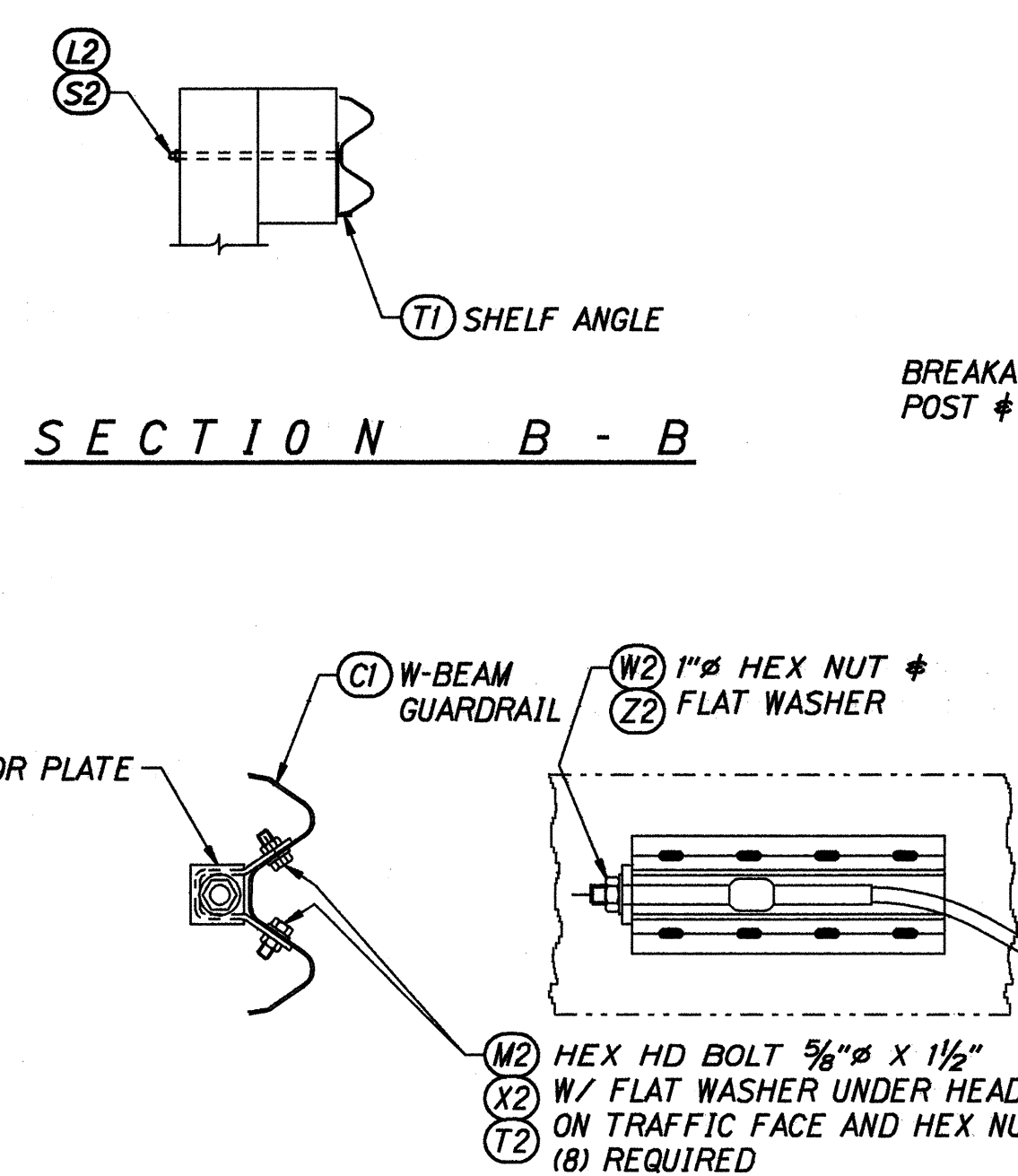


PLAN



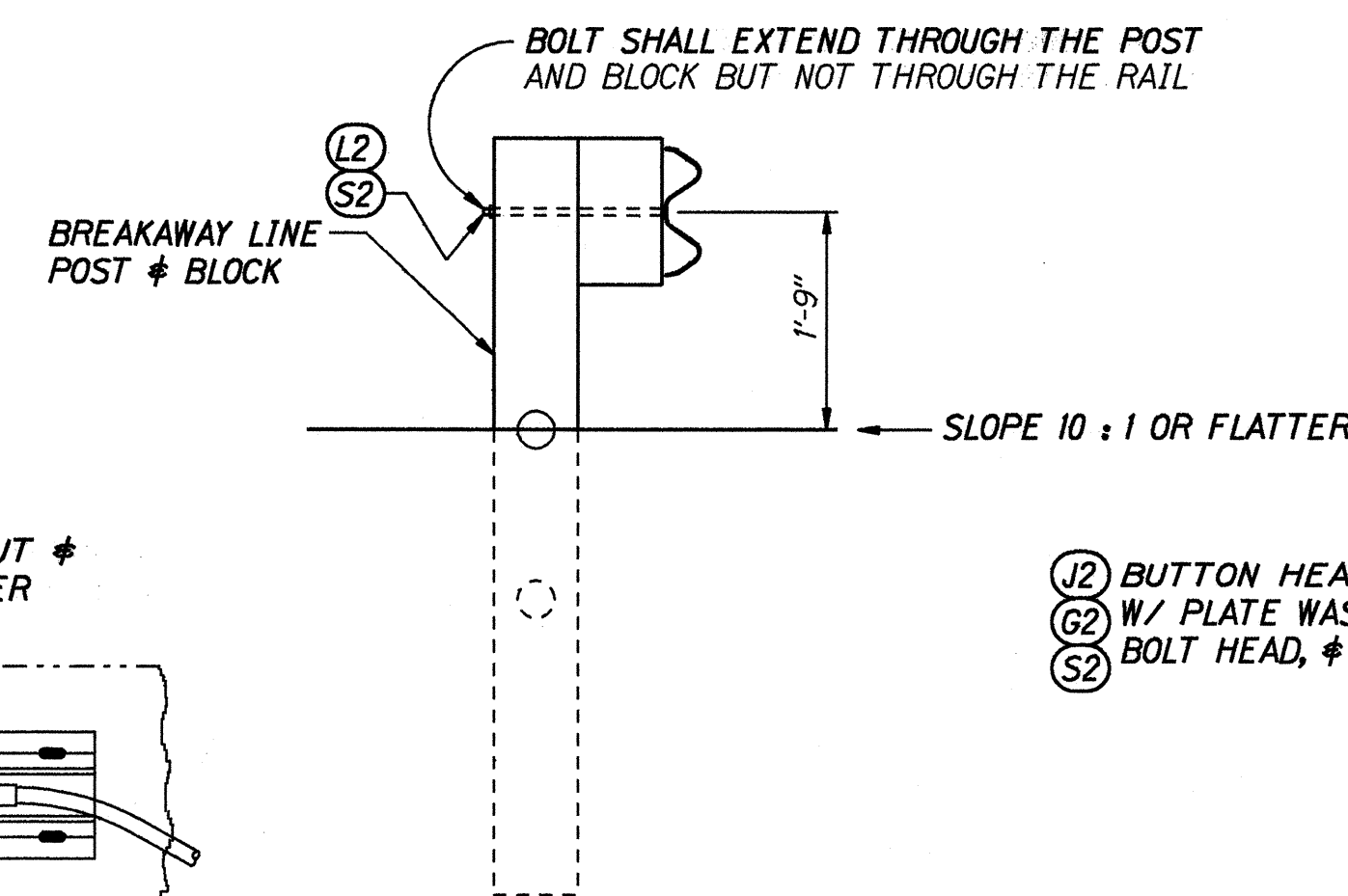
ELEVATION

BUFFERED END & ANCHORAGE ASSEMBLY

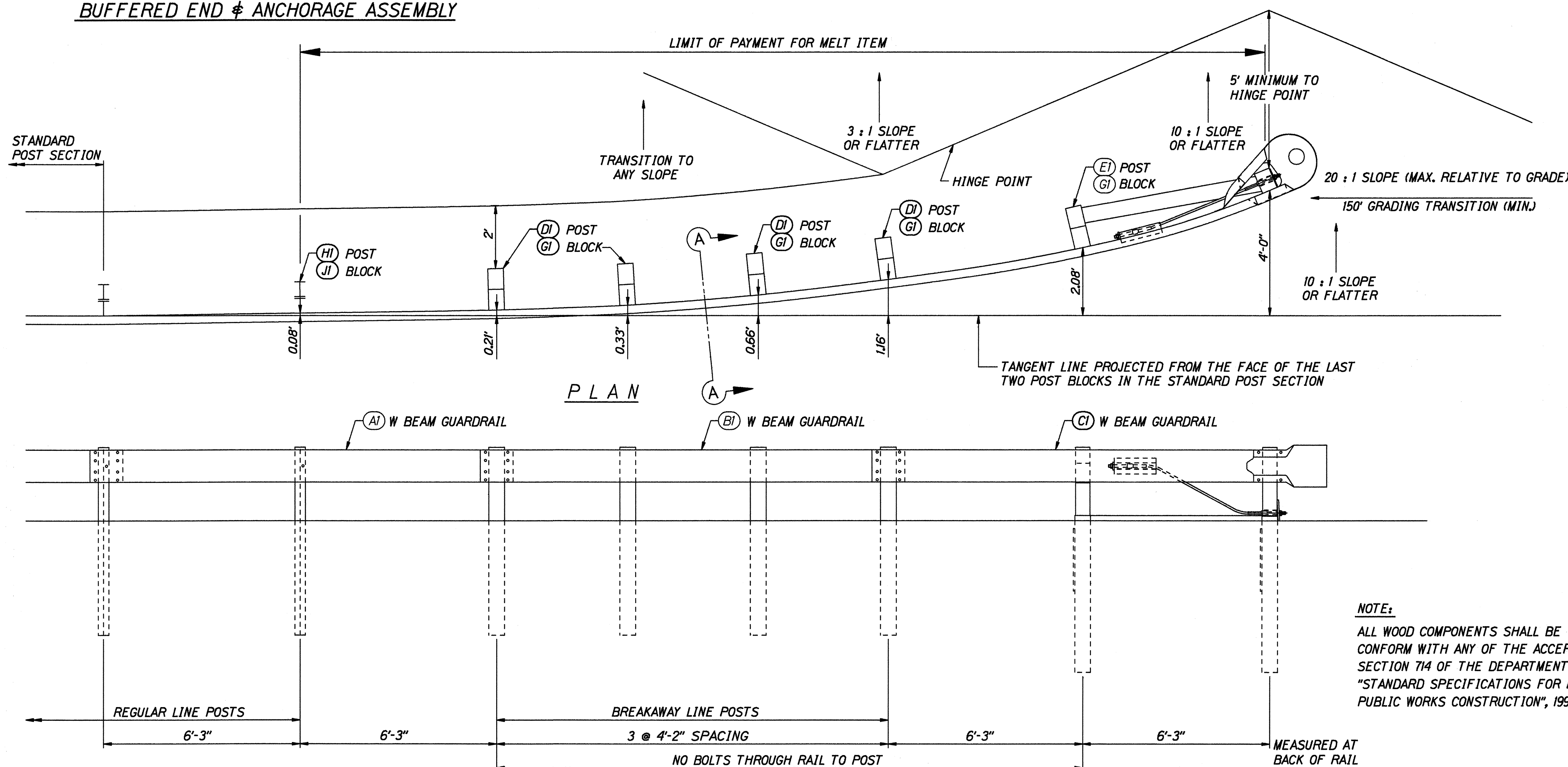


SECTION N - B - B

ANCHOR PLATE ASSEMBLY DETAILS



SECTION A - A

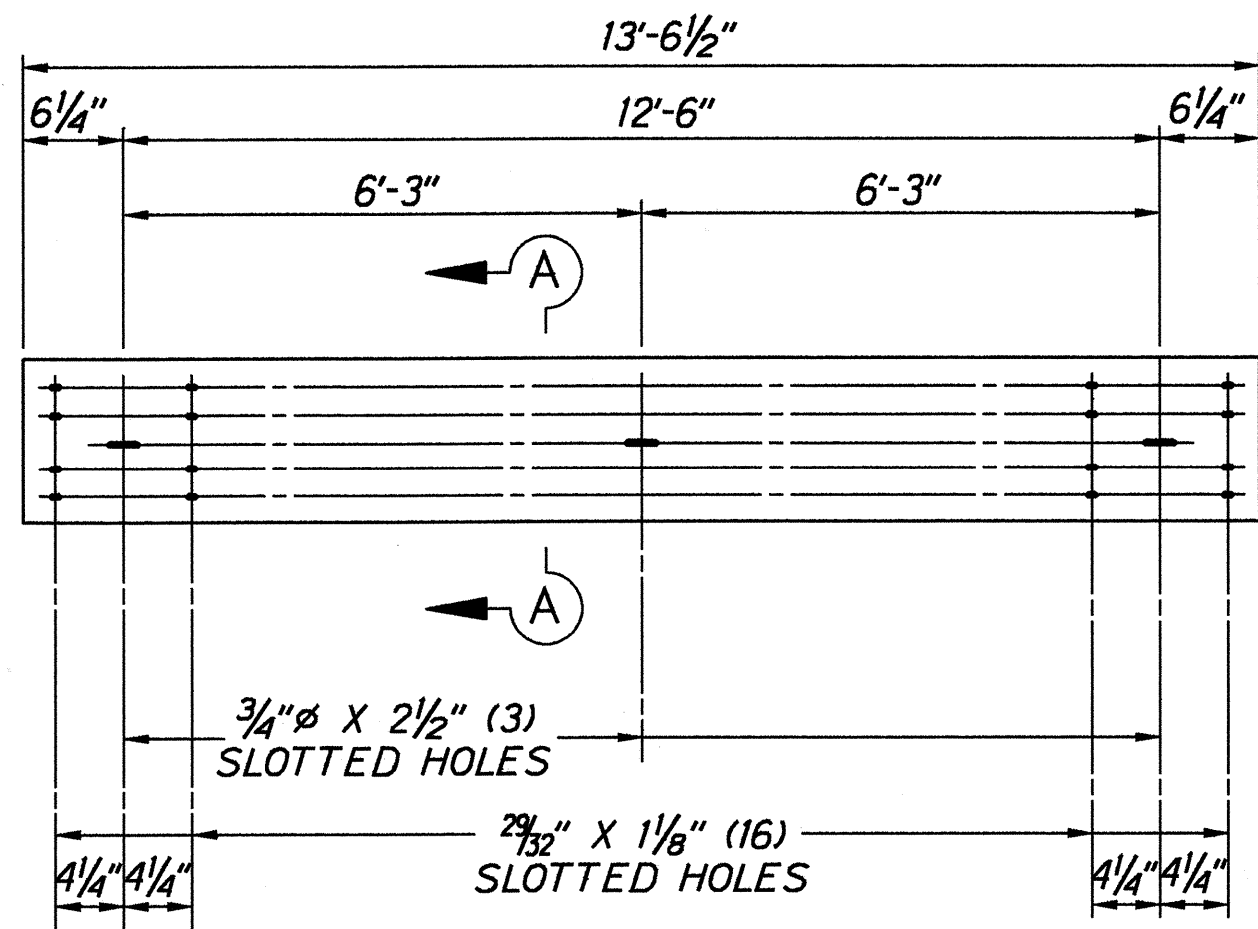


ELEVATION

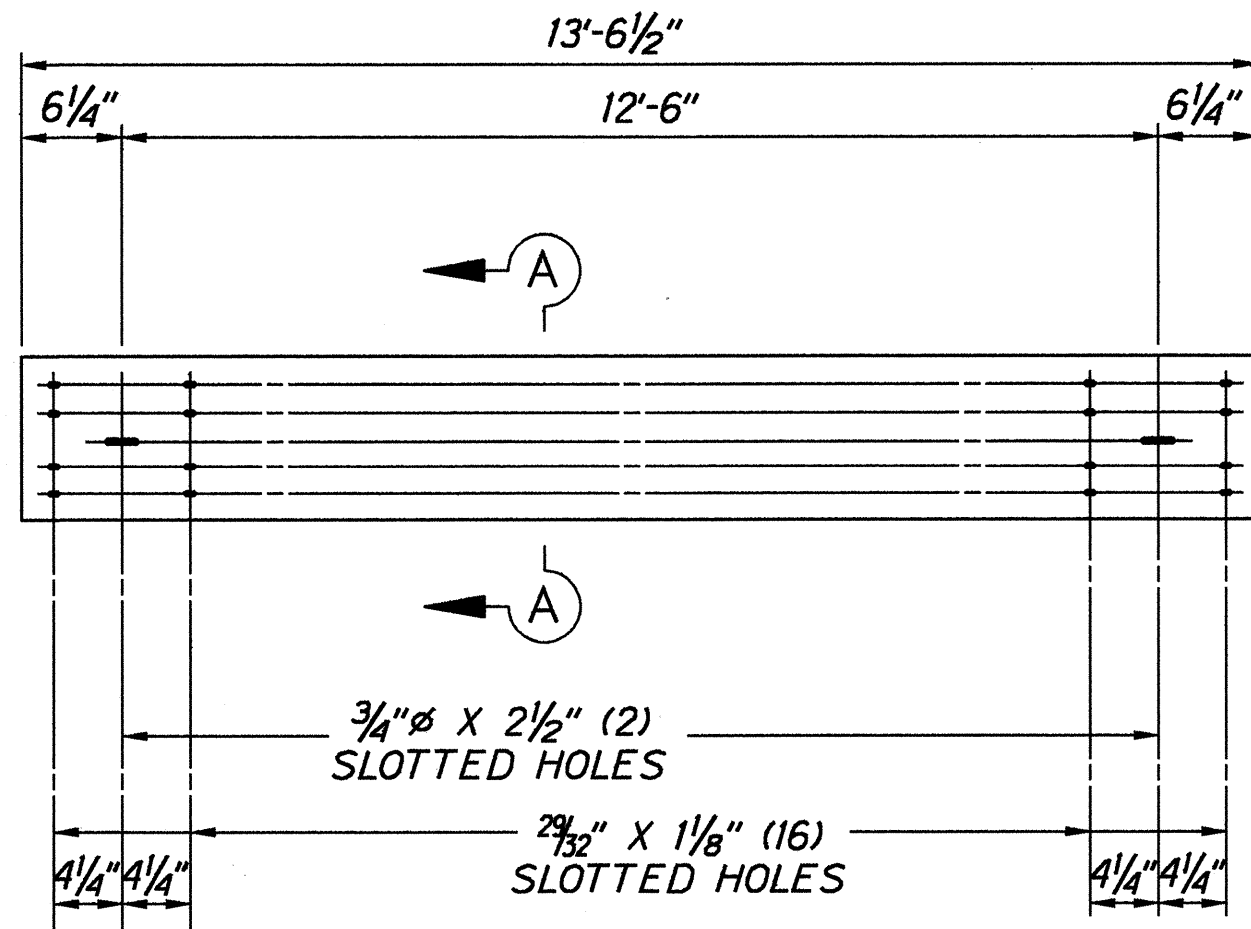
ORIGINAL	DATE
DESIGNED BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
DATE	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-036-1(7)	1996	7	32

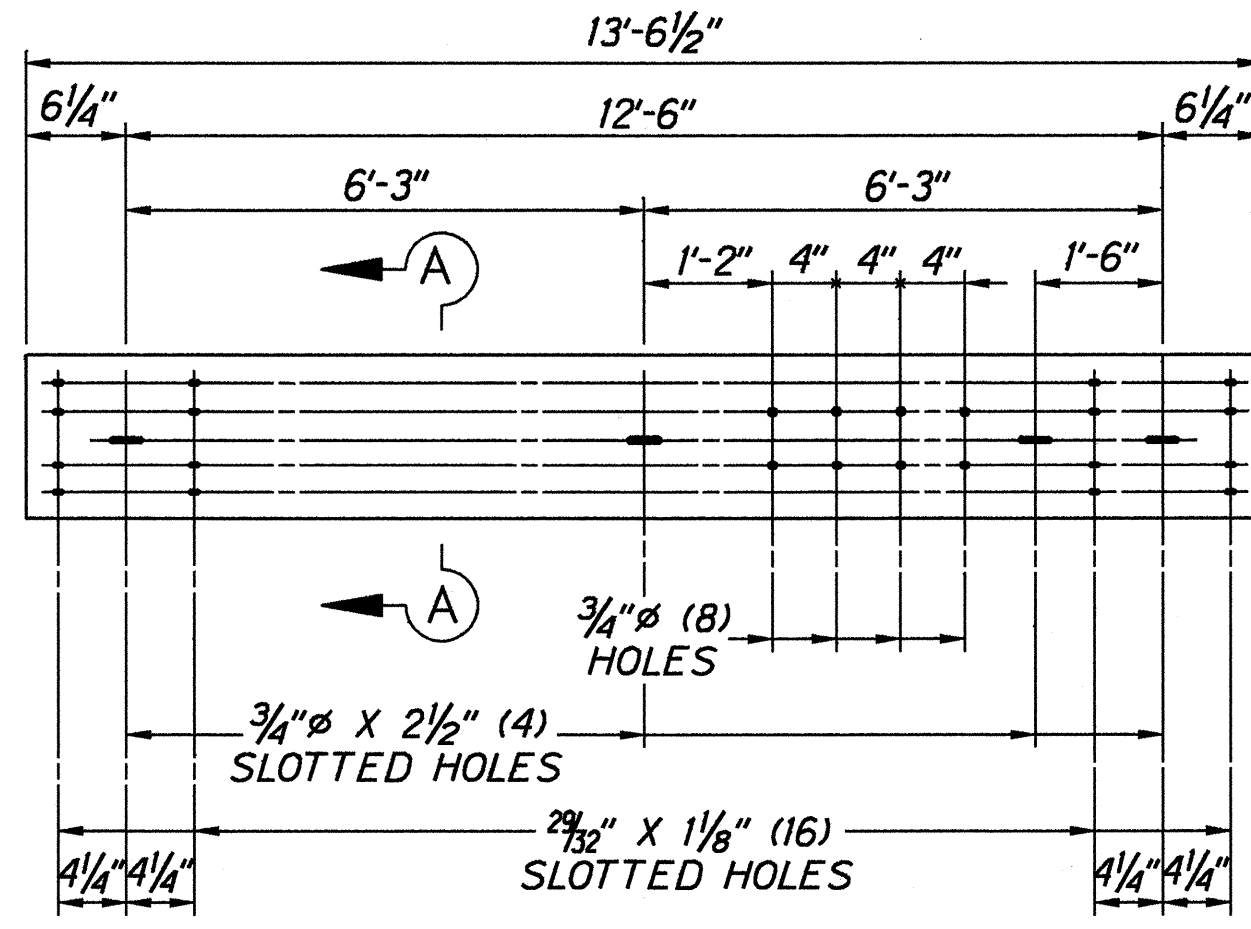
MATERIAL SCHEDULE					
FIND No.	PIECE MARK	MATERIAL	LENGTH FEET	WEIGHT INCHES	REMARKS
AI		GUARDRAIL, W-BEAM			AI23
		12 GA. W-BEAM GUARDRAIL	12	6	MI80
BI		GUARDRAIL, W-BEAM			AI23
		12 GA. W-BEAM GUARDRAIL	12	6	MI80
CI		GUARDRAIL, W-BEAM			AI23
		12 GA. W-BEAM GUARDRAIL	12	6	MI80
DI		BREAKAWAY LINE POST			88.0
		TIMBER POST 6 X 8	6	0	MI68
EI		BREAKAWAY POST, SHORT			44.6
		TIMBER POST 5 1/2 X 7 1/2	3	6 1/2	MI68
GI		BLOCK			16.8
		TIMBER BLOCK 5 1/2 X 7 1/2	1	2	MI68
HI		POST			54.9
		W6 X 8.5	6	0	A36
JI		BLOCK			11.0
		W6 X 8.5	1	2	A36
KI		SOIL TUBE			88.9
		TS 8 X 6 X J875	5	0	A500B
LI		CABLE ANCHOR BRACKET			19.3
		PL 1/4 X 12 3/8	1	4	A36
		PL 1/2 X 2 3/4	0	3	A36
MI		BEARING PLATE			11.9
		PL 5/8 X 8	0	8	A36
		PL 3/16 X 1	0	8	A36
RI		POST SLEEVE			1.76
		PIPE 2" STD	0	5 1/2	A53
SI		SOIL PLATE			84.8
		PL 1/4 X 24	2	0	A36
TI		SHELF ANGLE			3.7
		PL 1/4 X 6	0	8 1/2	A36



ONE - GUARDRAIL - AI

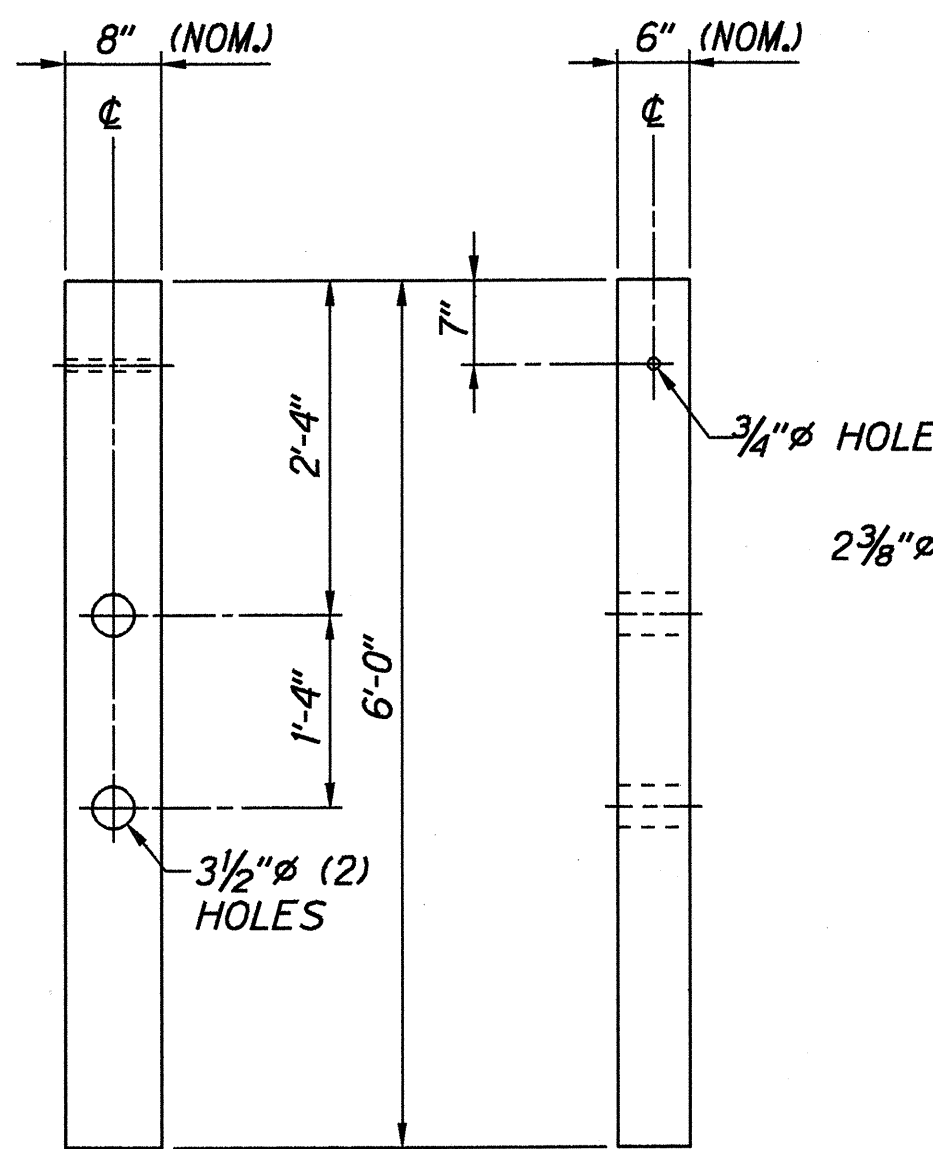


ONE - GUARDRAIL - BI

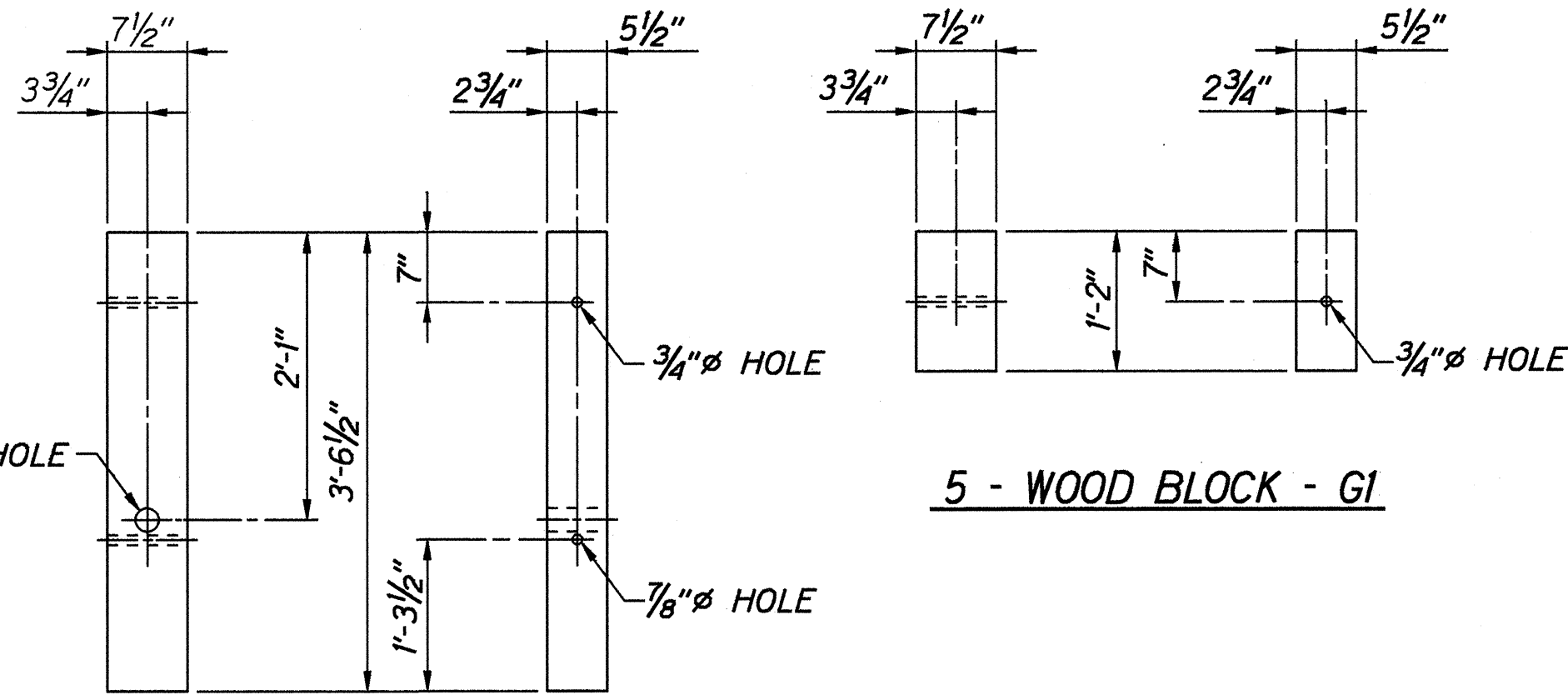


ONE - GUARDRAIL - CI

SECTION A - A

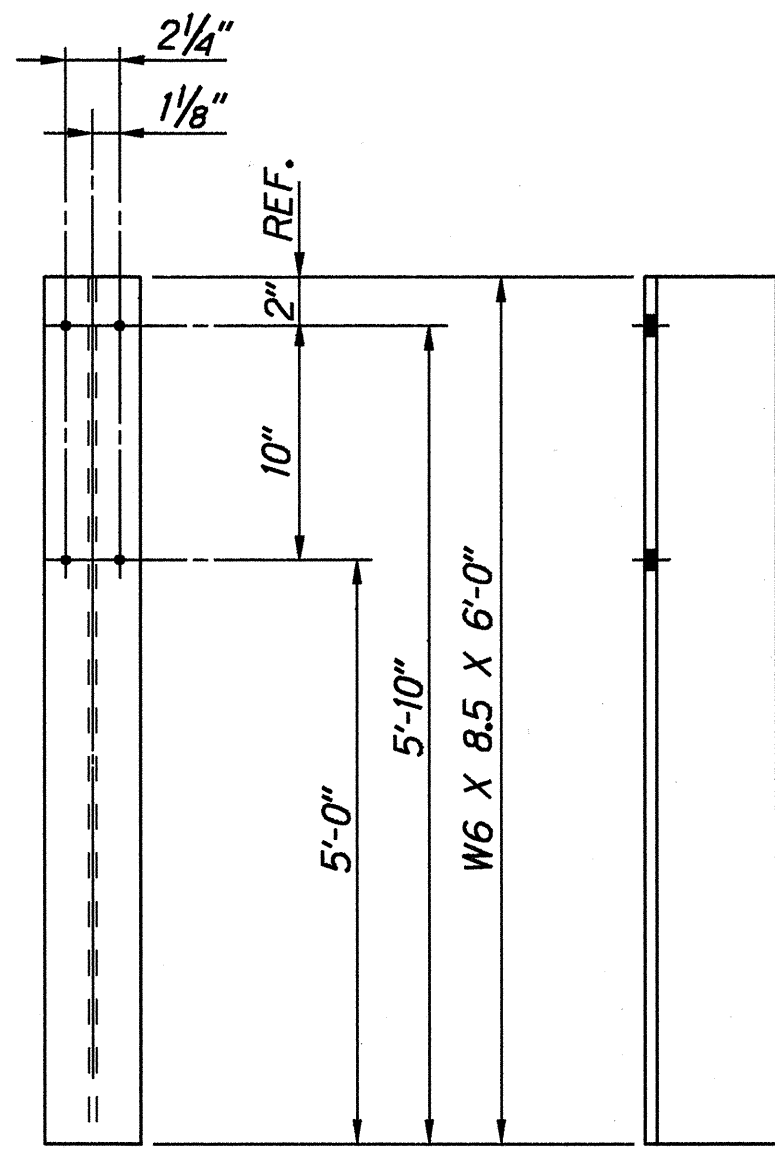


4 - WOOD POST - DI

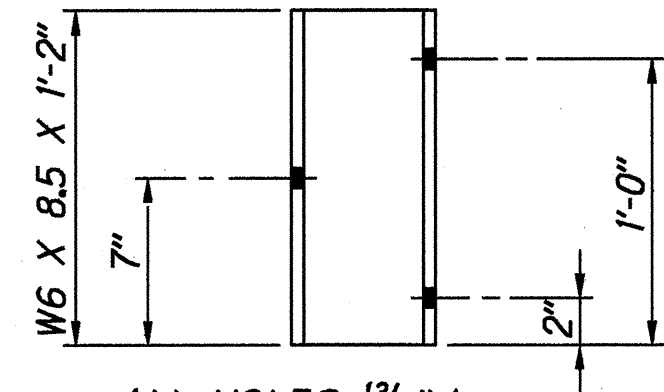


2 - WOOD POST - EI

5 - WOOD BLOCK - GI

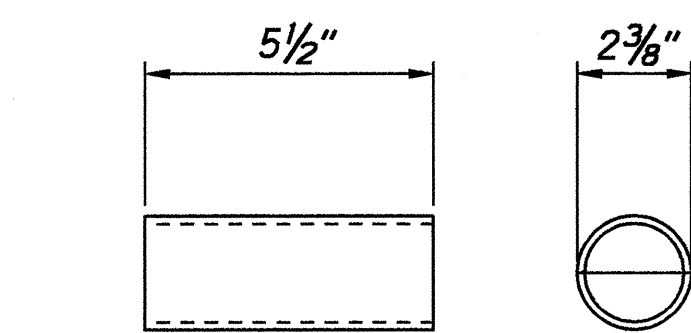


ONE - POST - HI

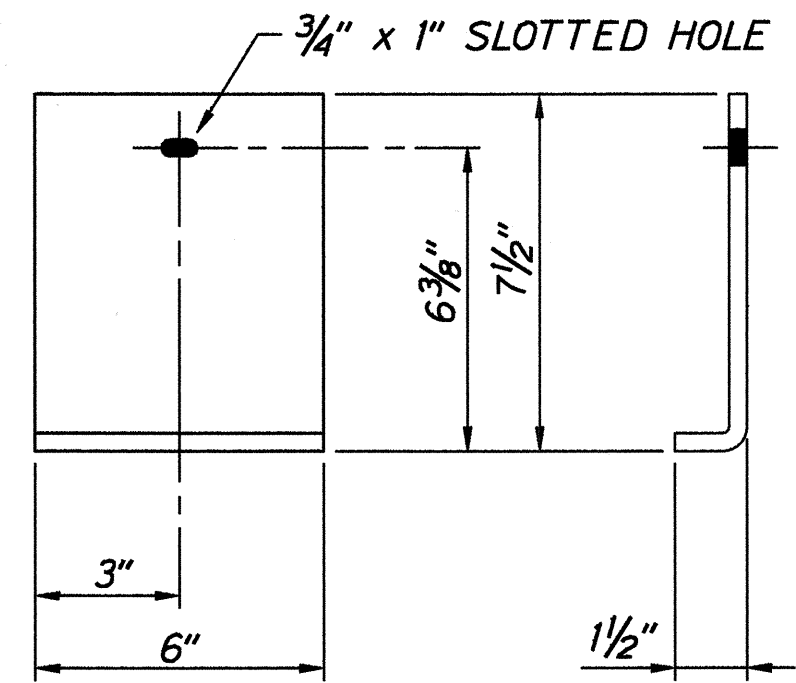


ALL HOLES 1 3/16" (6) REQD. @ 2 1/4" GA

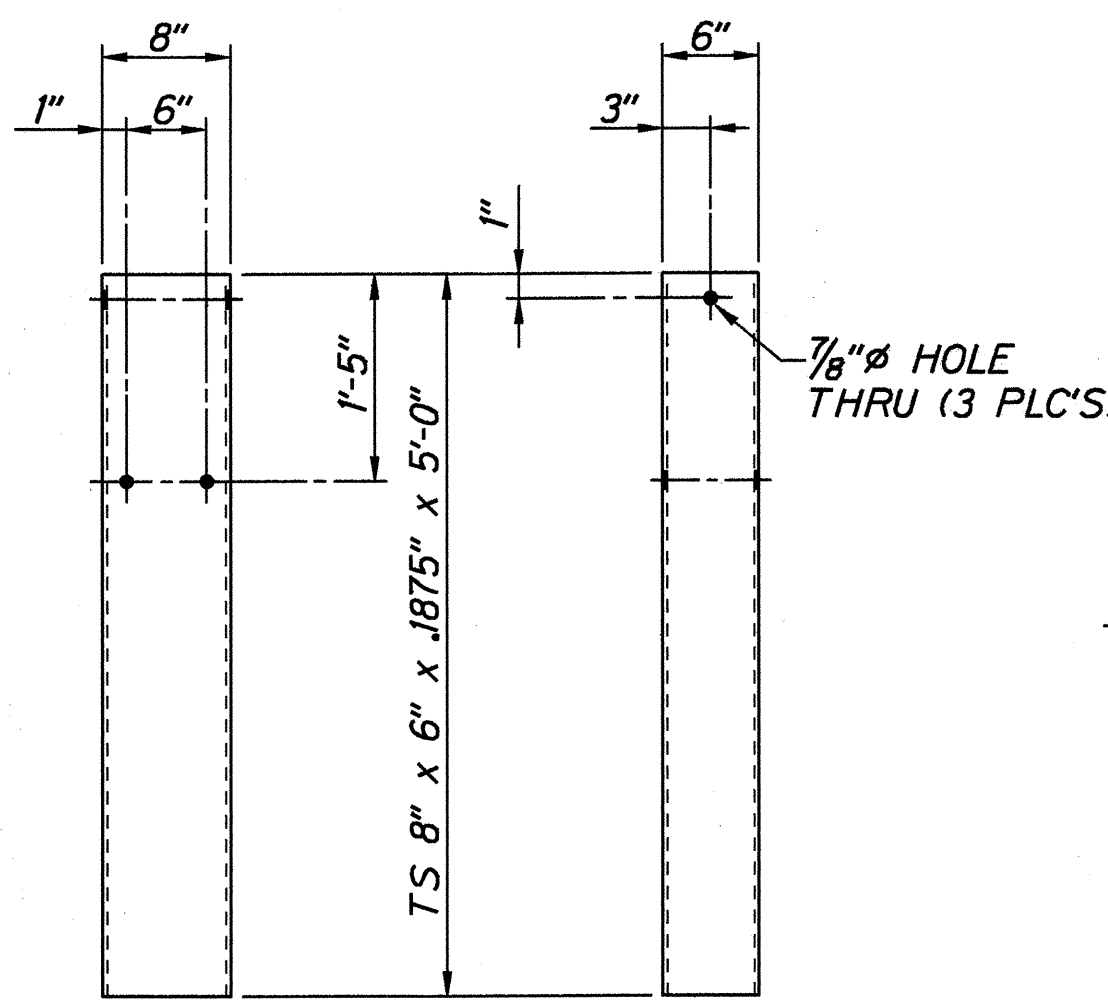
ONE - BLOCK - JI



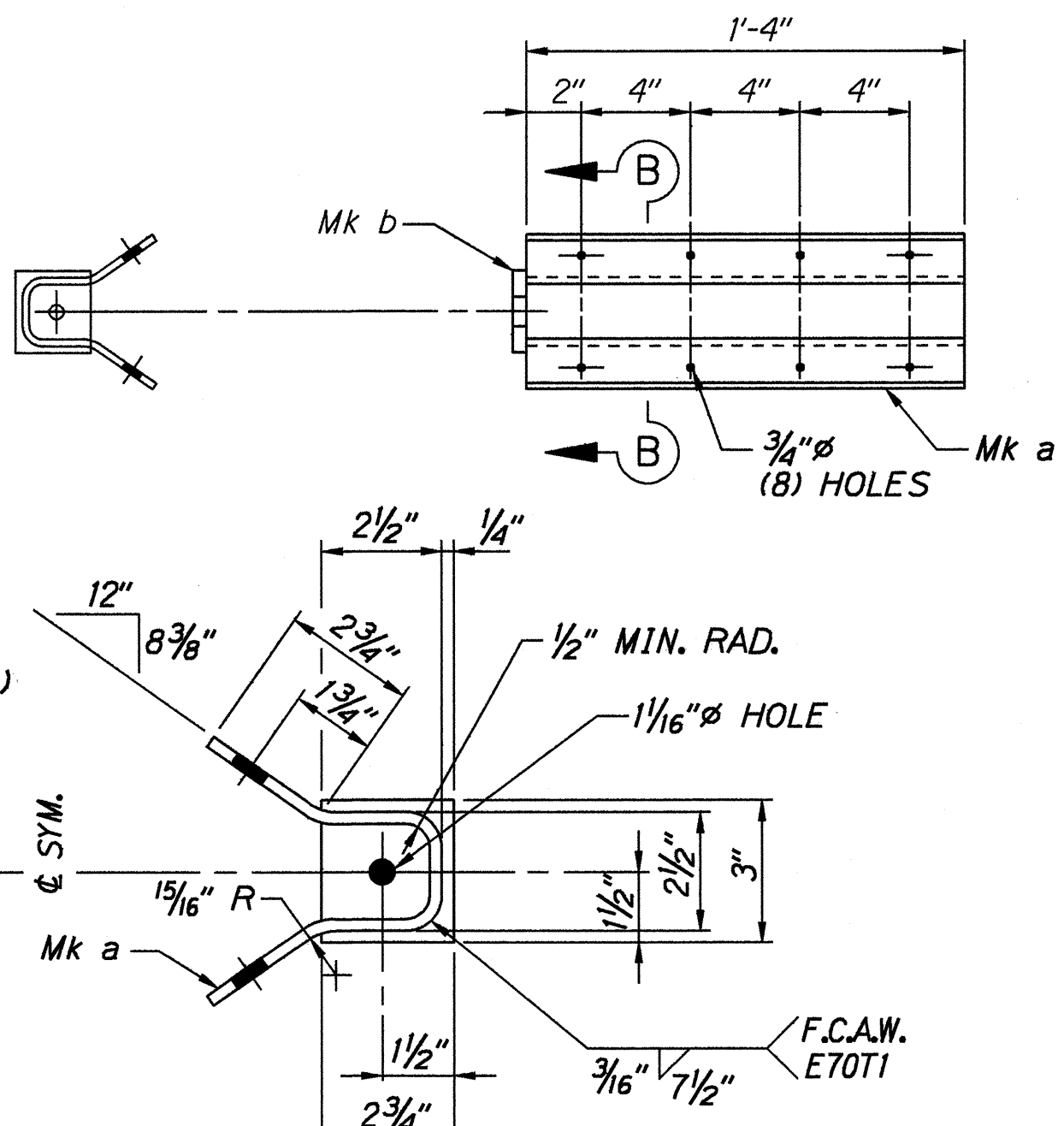
ONE - PIPE SPACER - RI



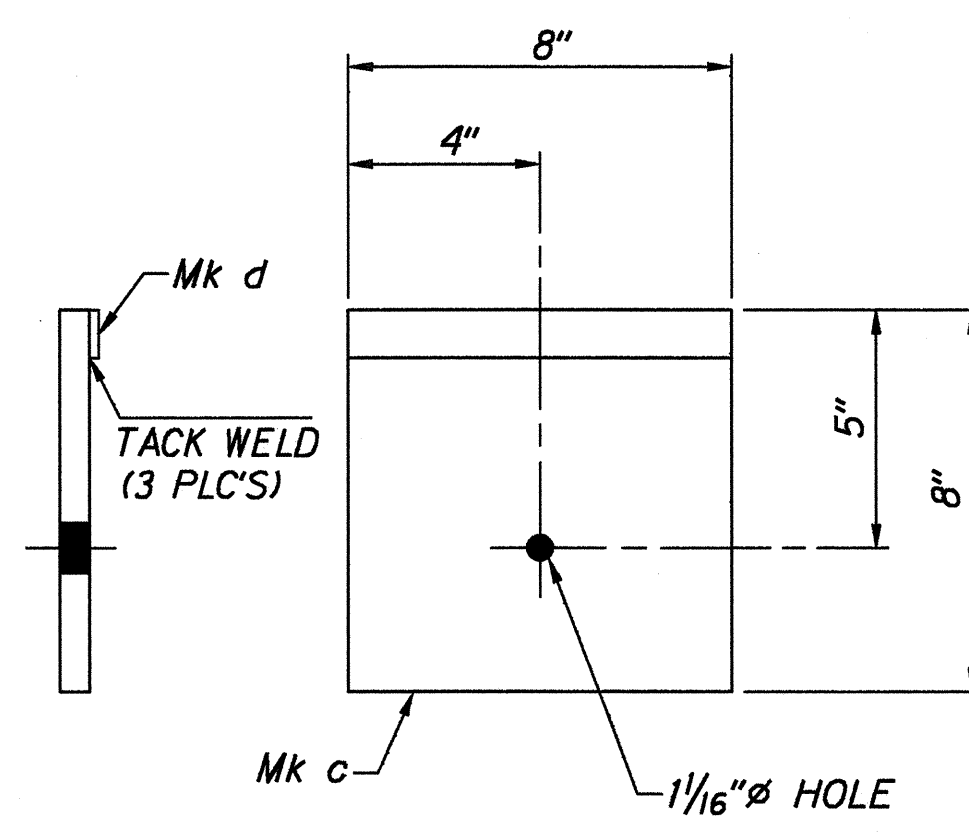
ONE - SHELF ANGLE - TI



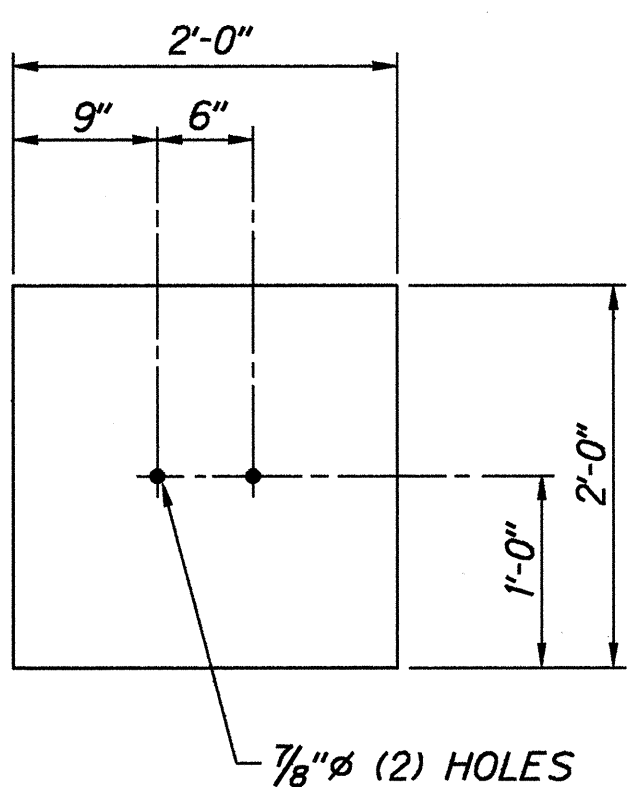
2 - SOIL TUBE - KI



SECTION B - B
ONE - CABLE ANCHOR BRACKET - LI



ONE - BEARING PLATE - MI



2 - SOIL PLATE - SI

ORIGINAL PLAN	DATE
SURVEY PLACED BY	
DRAWN BY	
DESIGNED BY	
CHECKED BY	
QUANTITIES BY	
DATE	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
MODIFIED ECCENTRIC LOADER
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Hookipa Park to Vicinity of Valley Isle Memorial Park
Fed. Aid Project No. STP-036-1(7)
Not to Scale Date: July, 1995
SHEET No. 2 OF 3 SHEETS

