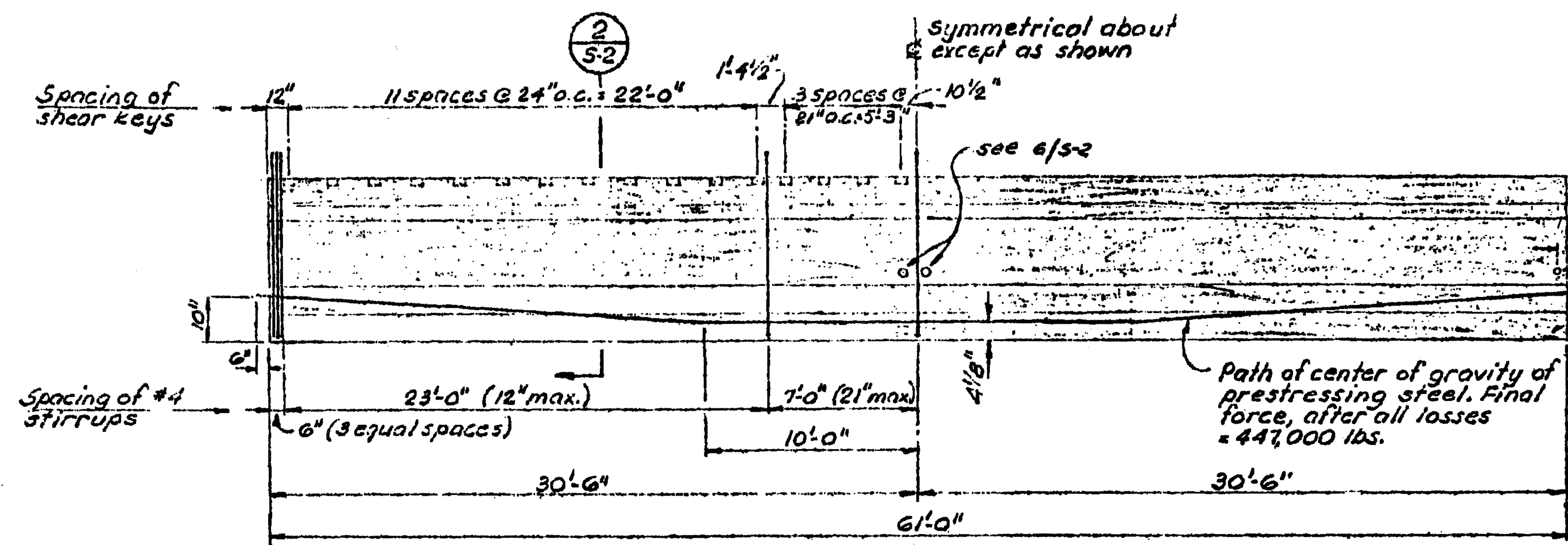
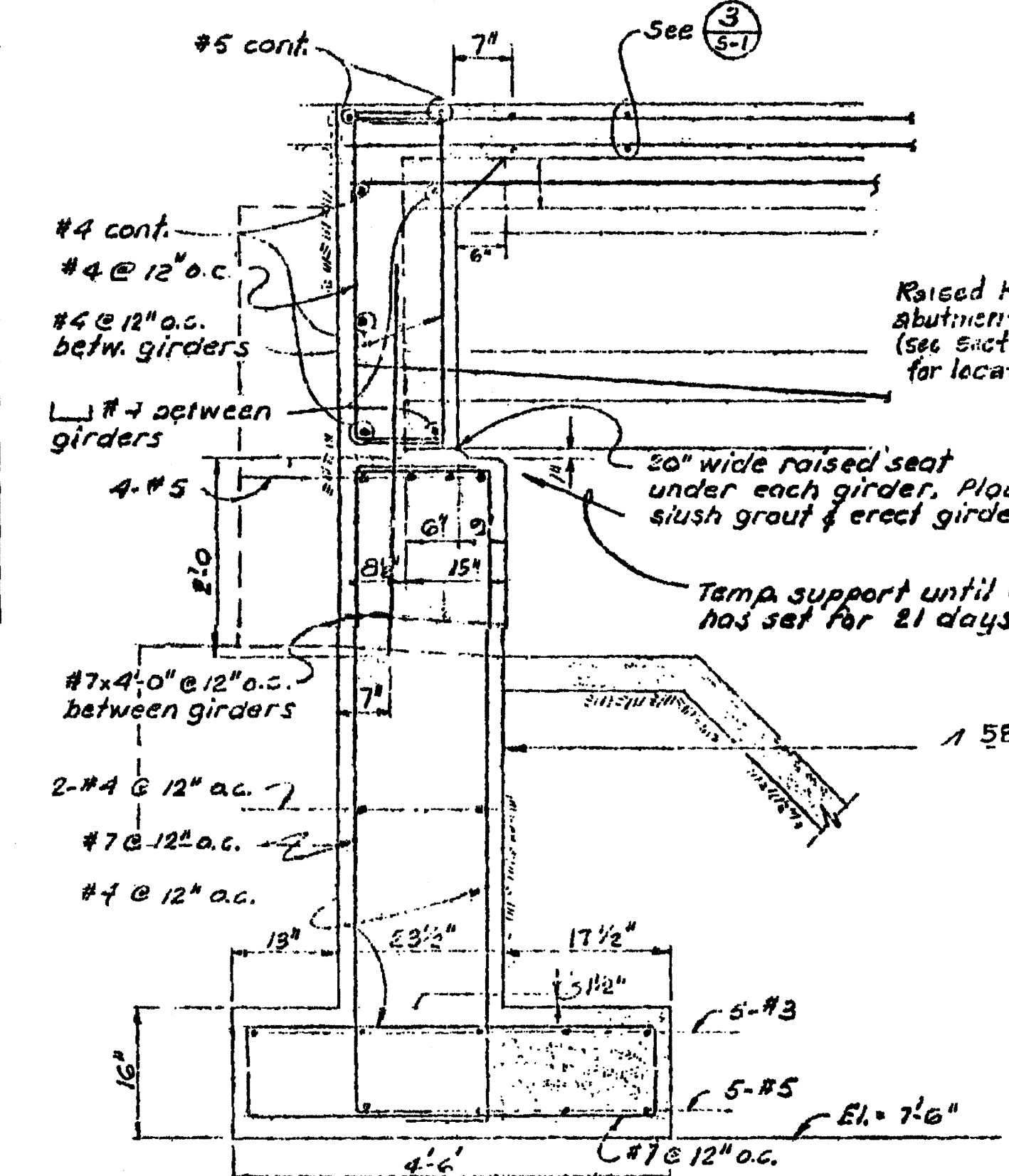
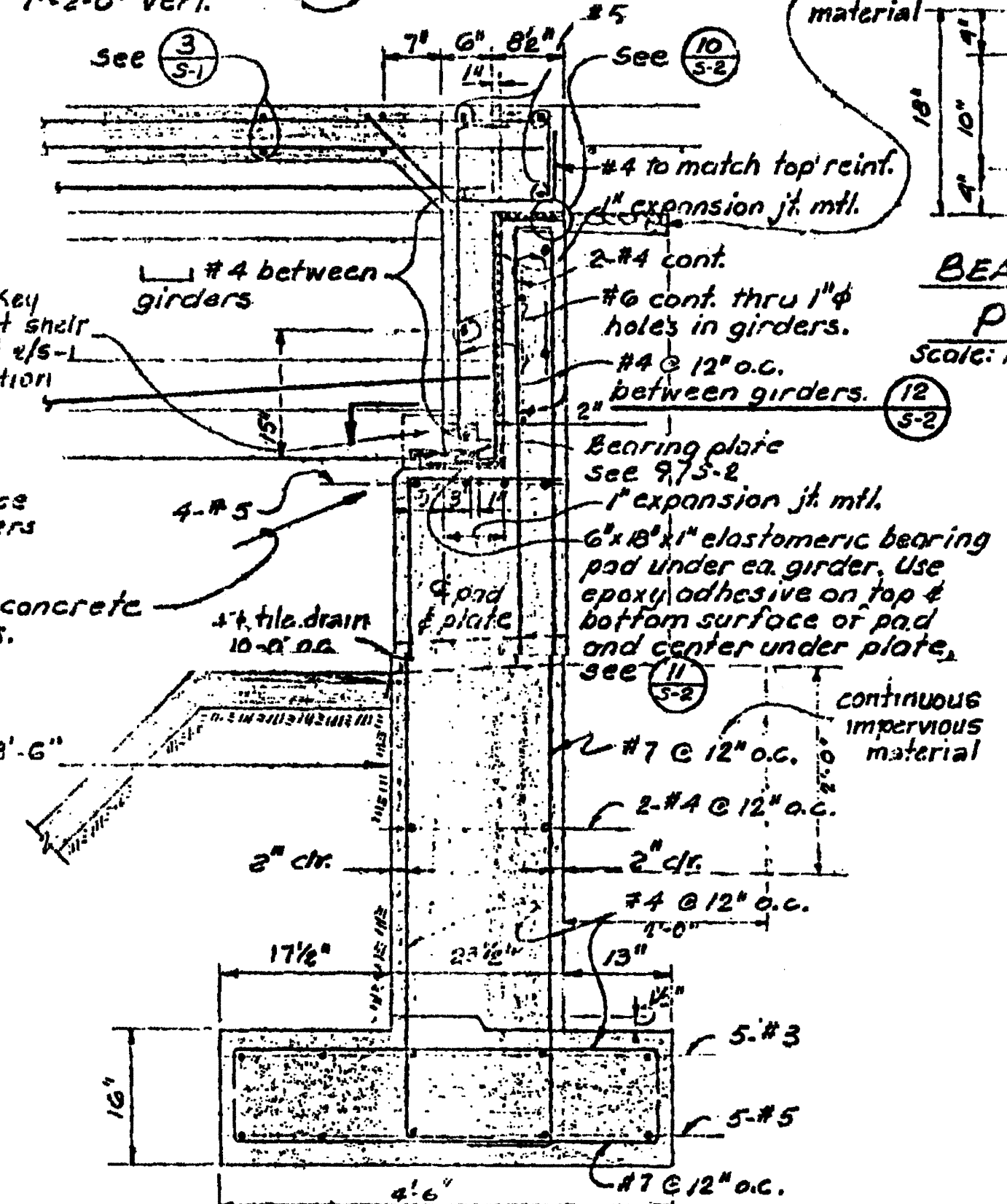




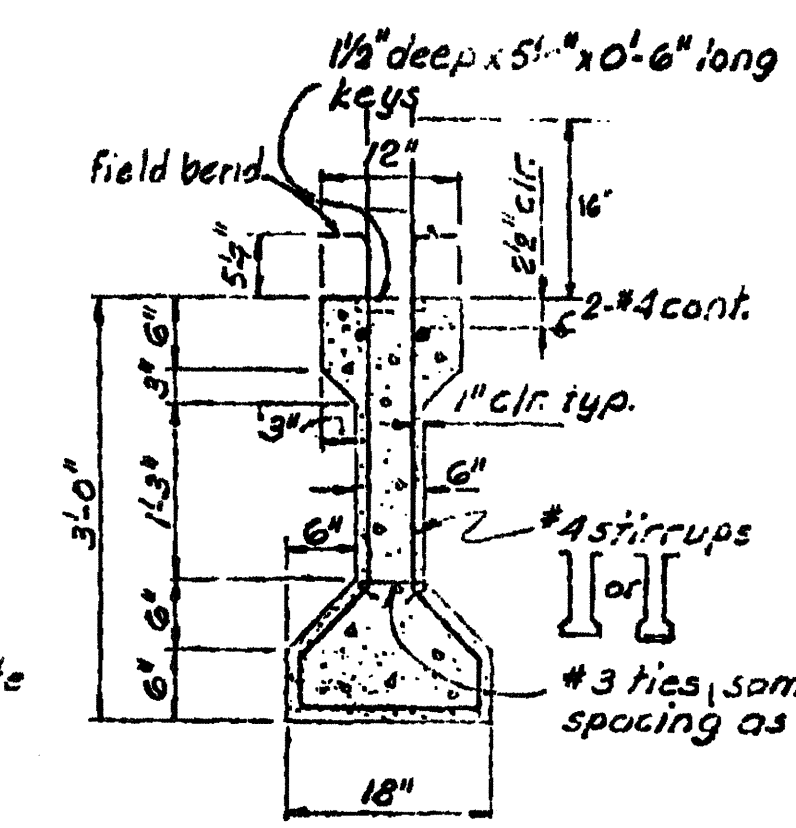
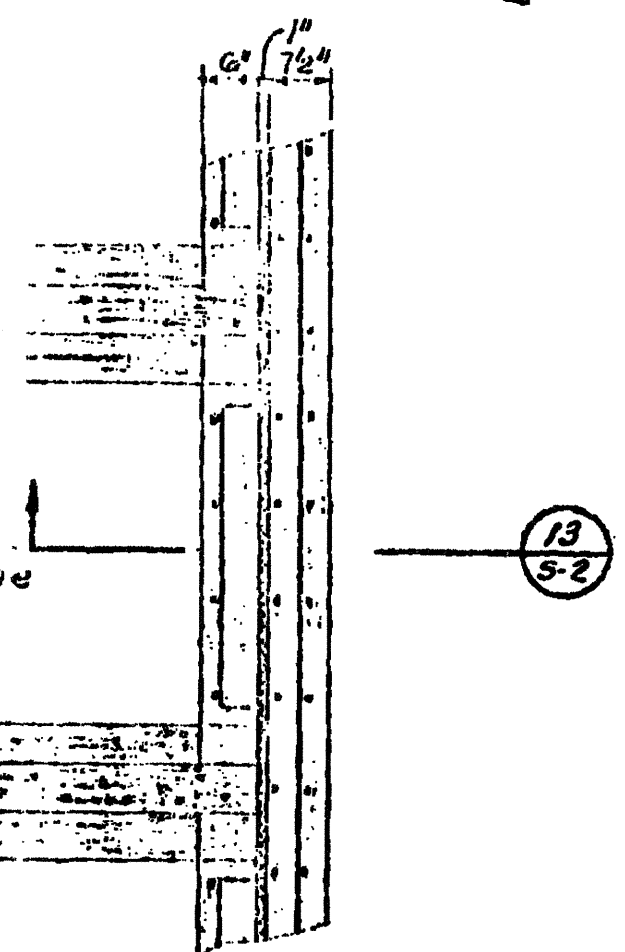
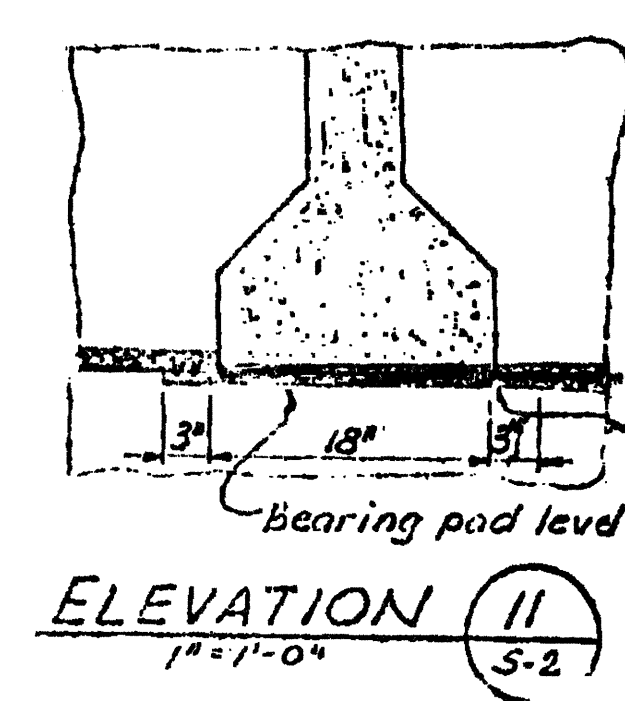
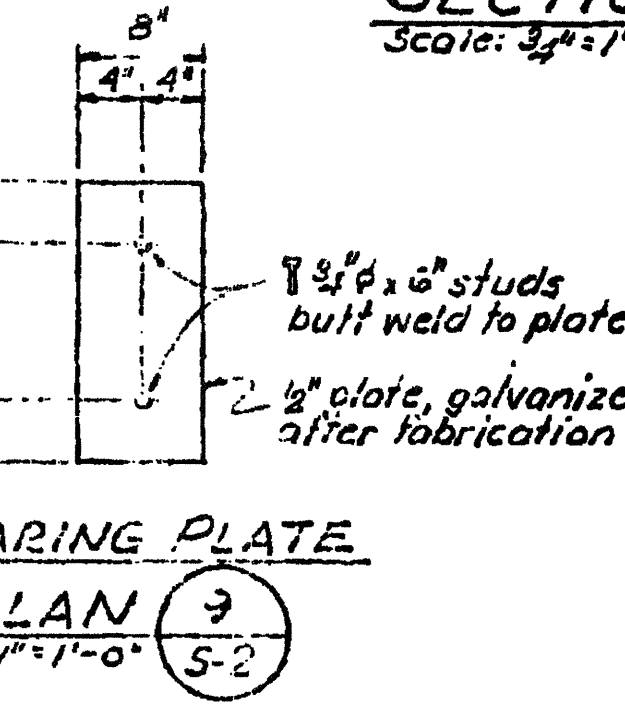
ELEVATION 1
Scale: 1" = 3'-0" horiz.
1" = 2'-0" vert.



SECTION 7
Scale: 3/4" = 1'-0"



SECTION 8
Scale: 3/4" = 1'-0"



Note: Prestressing steel not shown. See 3/5-2

TYPE II AASHTO GIRDER

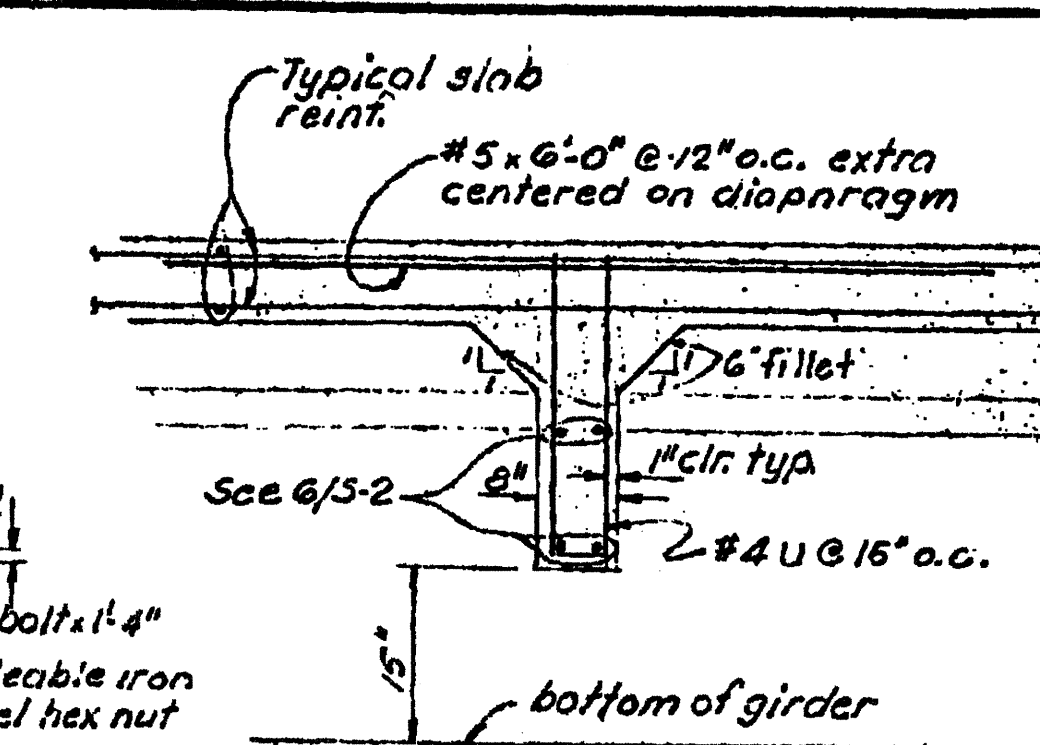
SECTION 2
Scale: 3/4" = 1'-0"

PRESTRESSING STRAND CLEARANCES

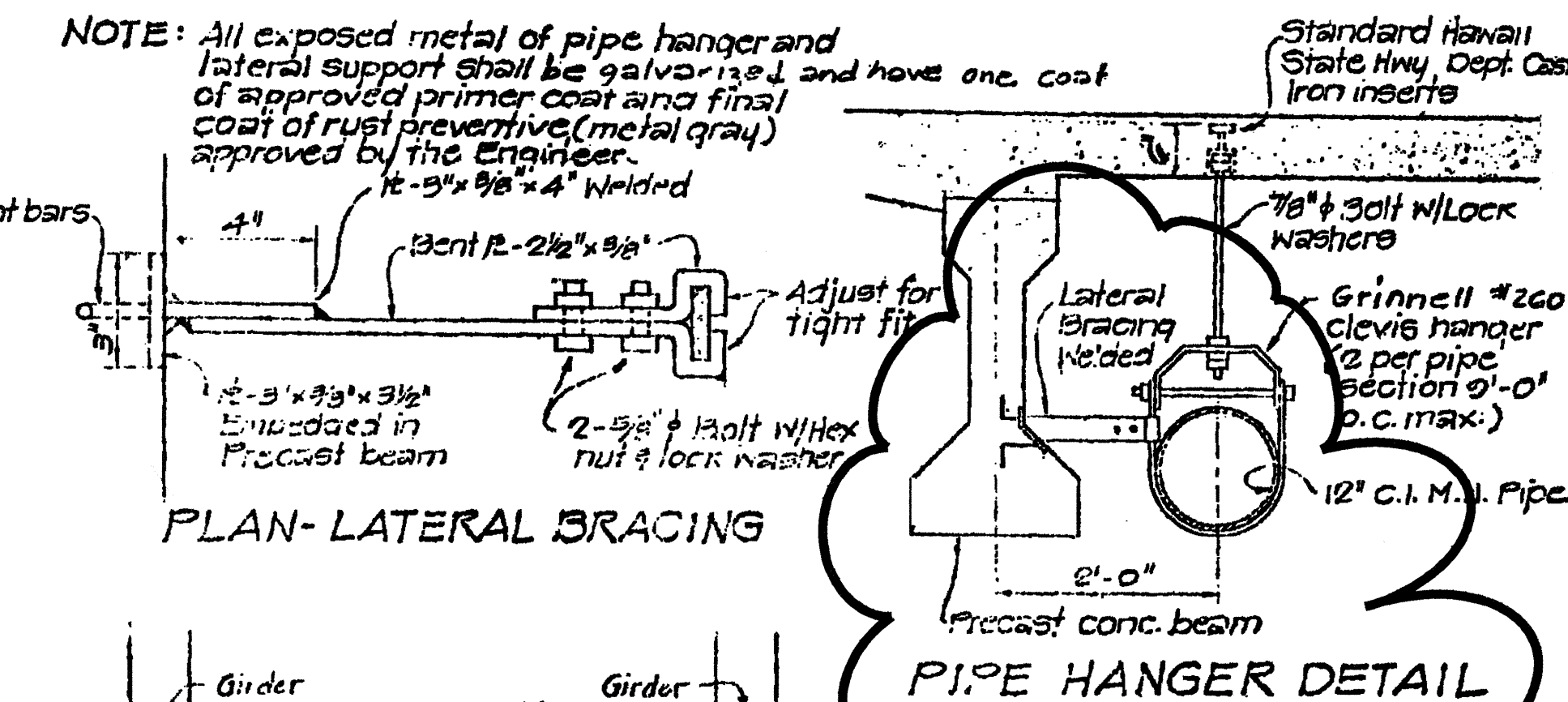
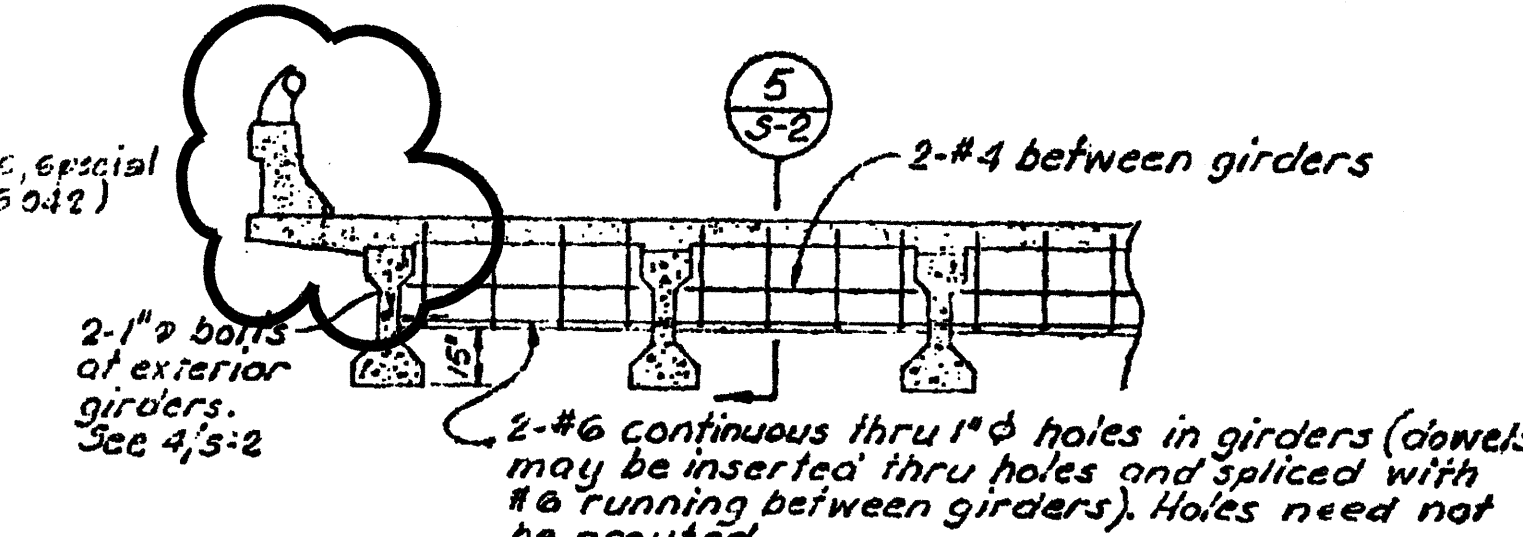
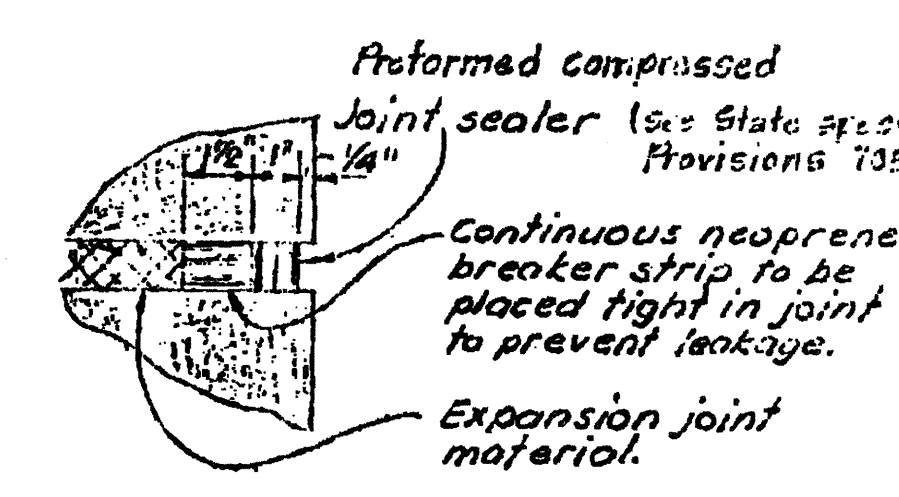
DETAIL 3
Scale: 3/4" = 1'-0"

INSERT ASSEMBLY

DETAIL 4
Scale: 3/4" = 1'-0"

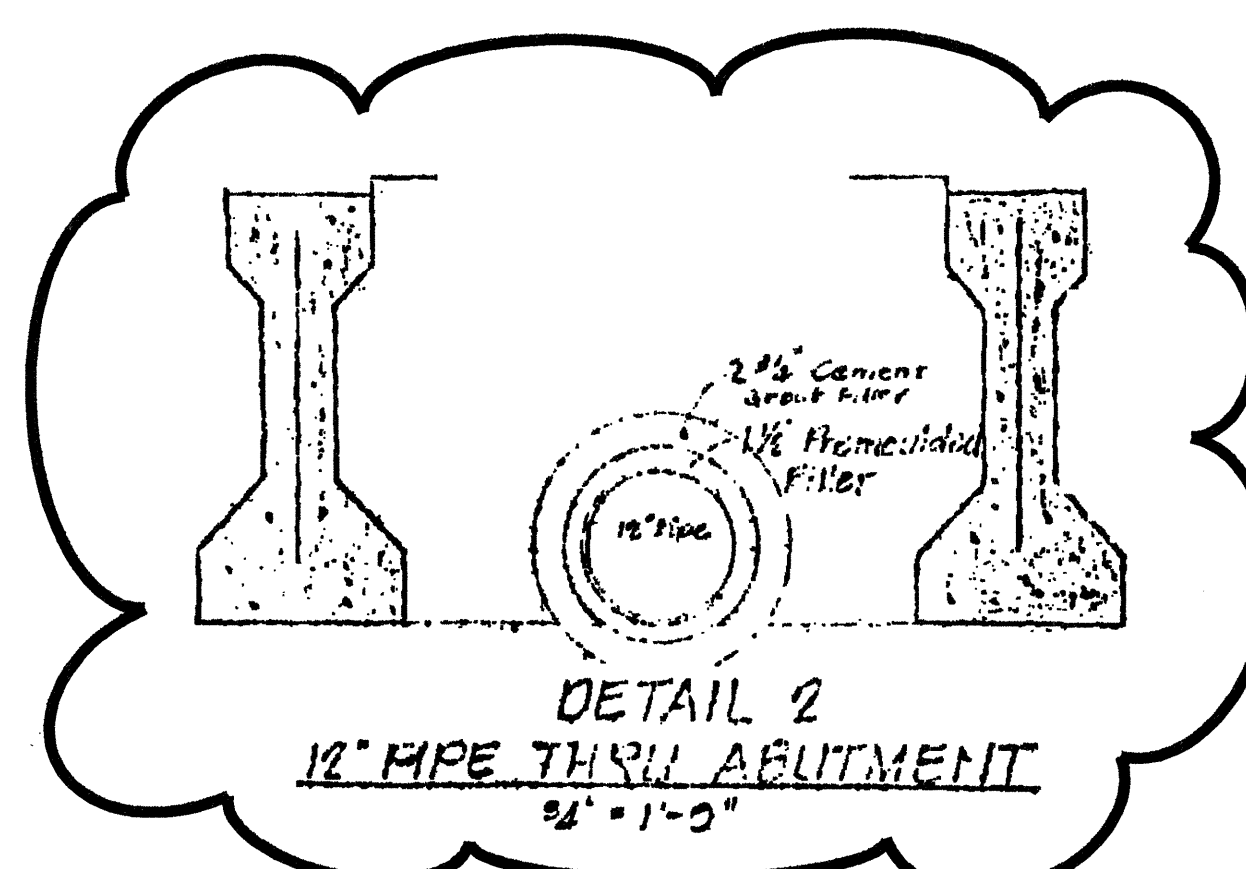


SECTION 5
Scale: 3/4" = 1'-0"



PLAN-LATERAL BRACING

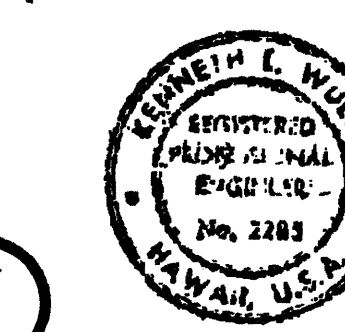
DETAIL 2 RAISED KEY SECTION
Scale: 1/4" = 1'-0"



12" PIPE THRU ABUTMENT
Scale: 1/2" = 1'-0"

This Drawing Is In Part Original Contract Plans Of Existing Bridge, For Information And Guidance Only. Drawings Are Not To Scale.

Areas Designated For Removal Of Existing Structures



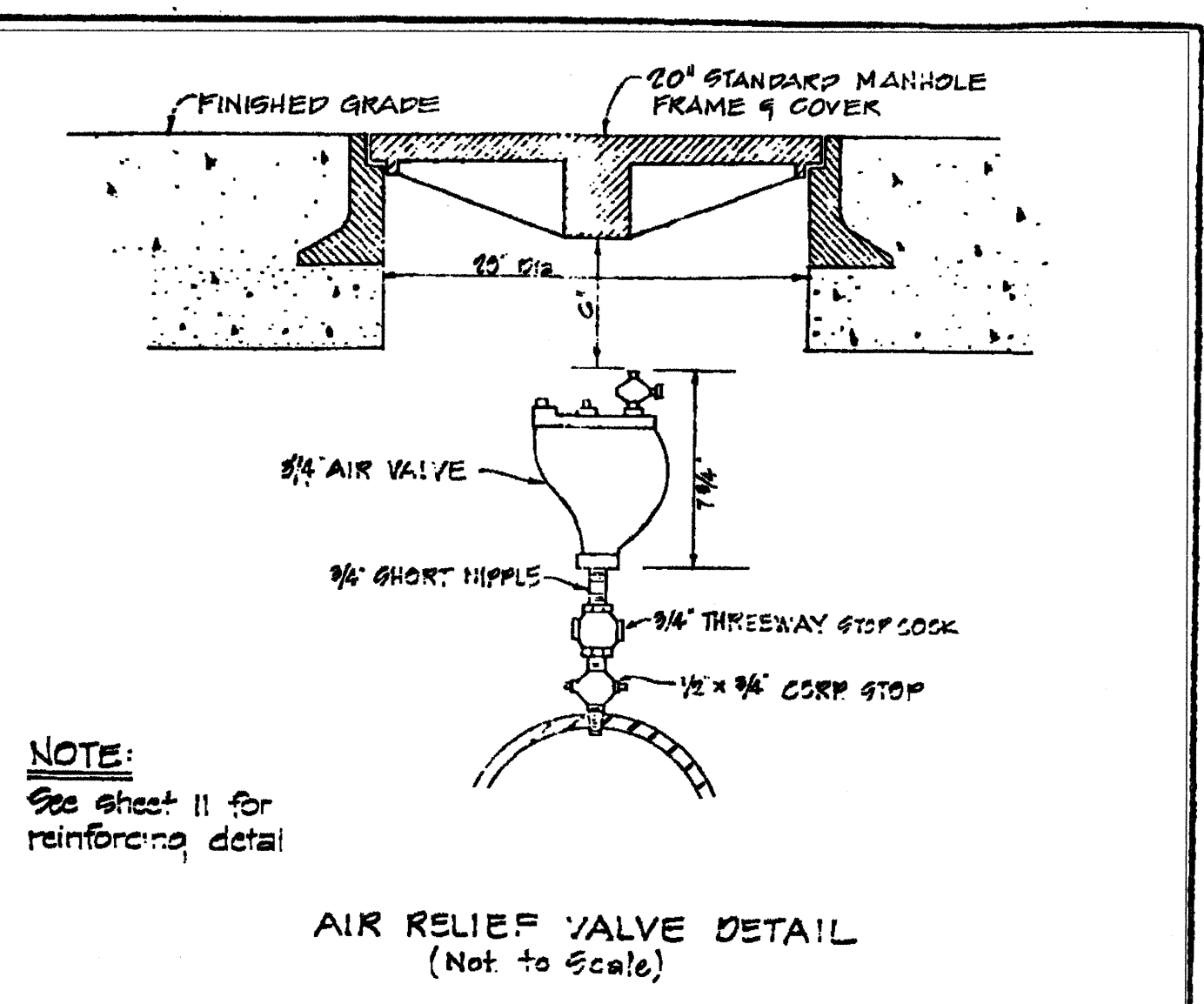
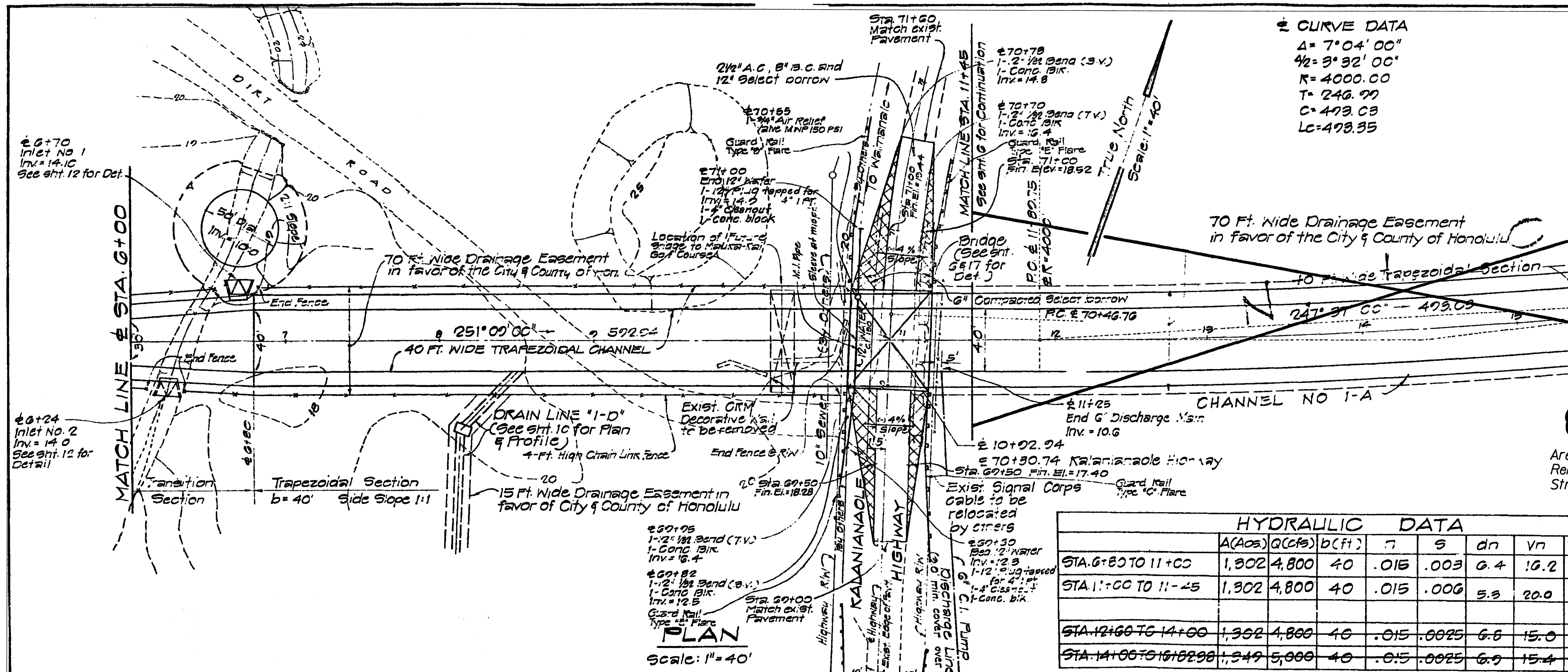
PARK, WILSEY & HAM
HAWAII-KAI SHOPPING CENTER, HONOLULU HAWAII
HAWAII KAI RESORT DIVISION
OFF-SITE DRAINAGE

MAUNALUA, HONOLULU, OAHU, HAWAII
DEVELOPER: HAWAII-KAI, A PROJECT FOR KAISER AETNA
OWNER: TRUSTEES OF BERNICE P. BISHOP ESTATE
TAX MAP KEY: 3-9-10 §11

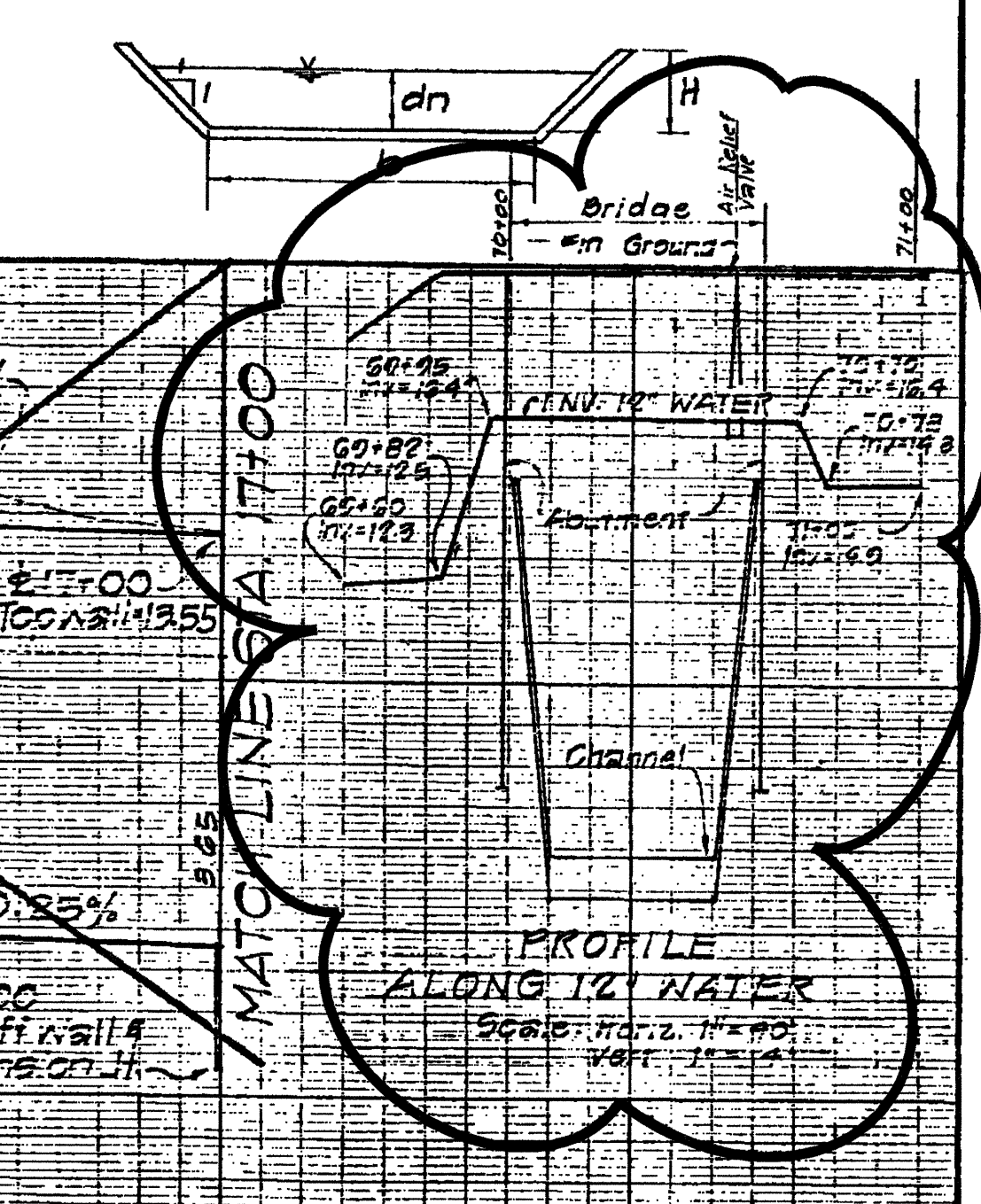
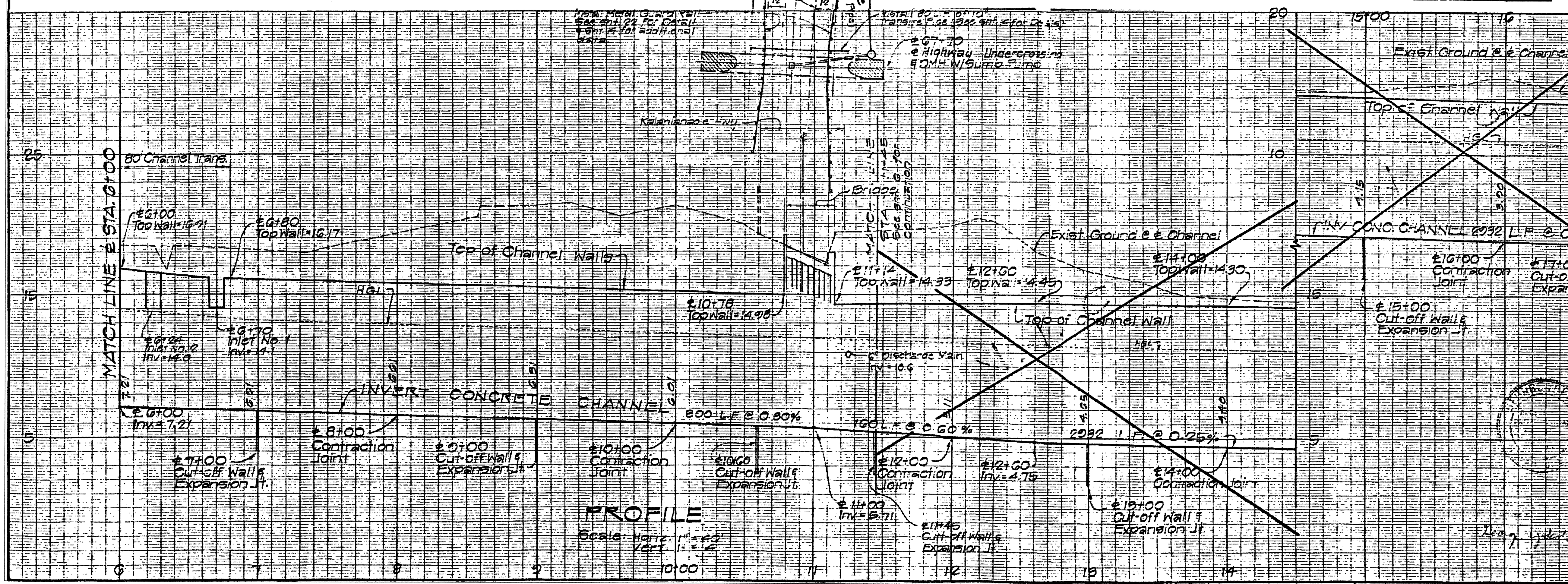
BRIDGE CROSSING @ CHANNEL

Approved: *R. K. K.* DATE: 7-2-71
Asst. Engr. THOMAS K. B.W.S.

Sht. ES2 of 4 Sheets



This Drawing Is In Part Original Contract Plans Of Existing Bridge, For Information And Guidance Only. Drawings Are Not To Scale.



PARK, WILSEY & HAM
HAWAII KAI SHOPPING CENTER HONOLULU, HAWAII

HAWAII KAI RESORT DIVISION

OFF-SITE DRAINAGE

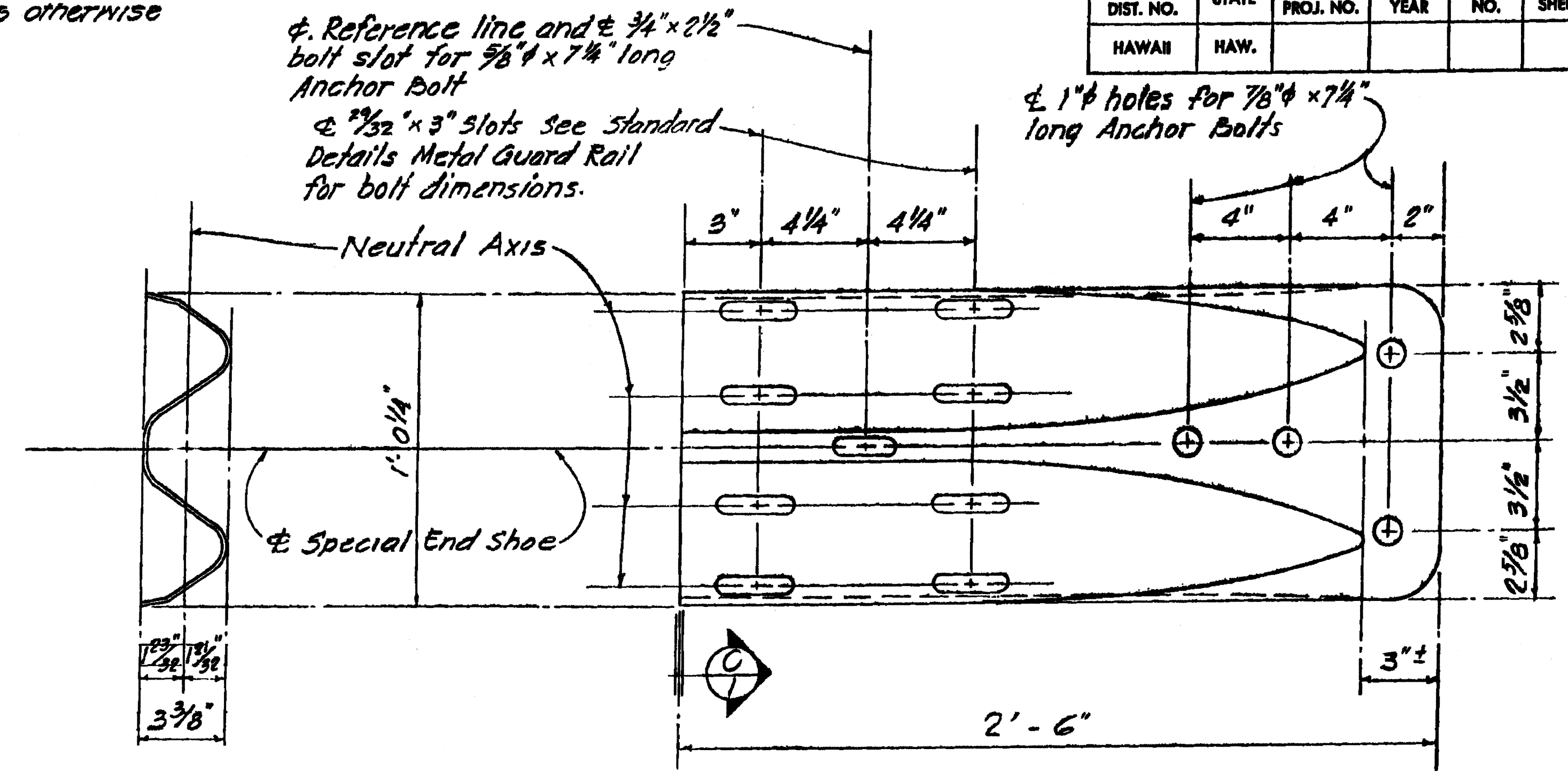
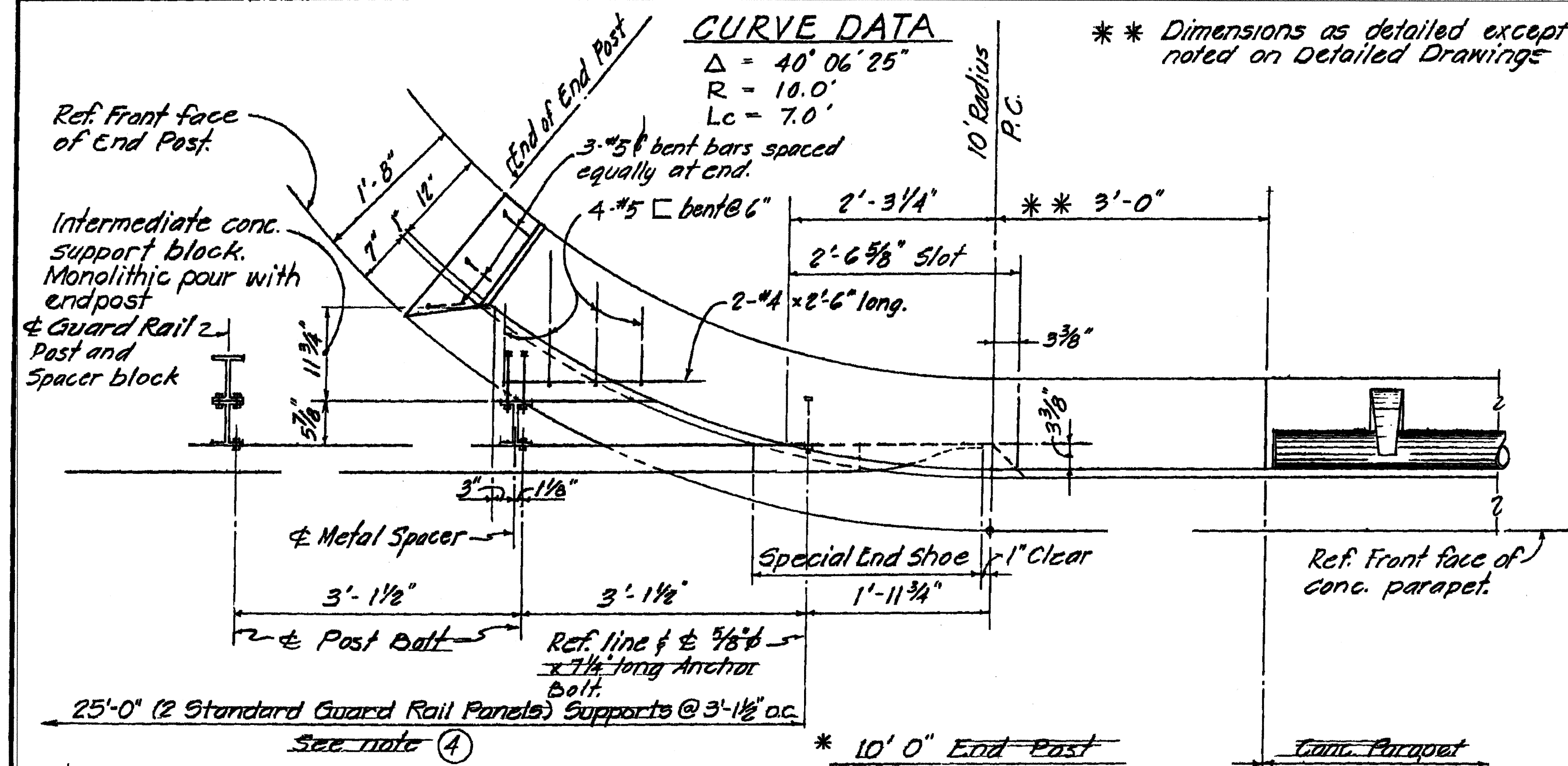
MAUNALUA, HONOLULU, OAHU, HAWAII
 DEVELOPER: HAWAII KAI, A PROJECT OF KAISER AETNA
 OWNER: TRUSTEES OF BERNICE F. BISHOP ESTATE
 TAX MAP KEY: 5-2-10 5-11

PLAN & PROFILE CHANNEL NO. 1-A

APPROVED DATE APPROVED DATE

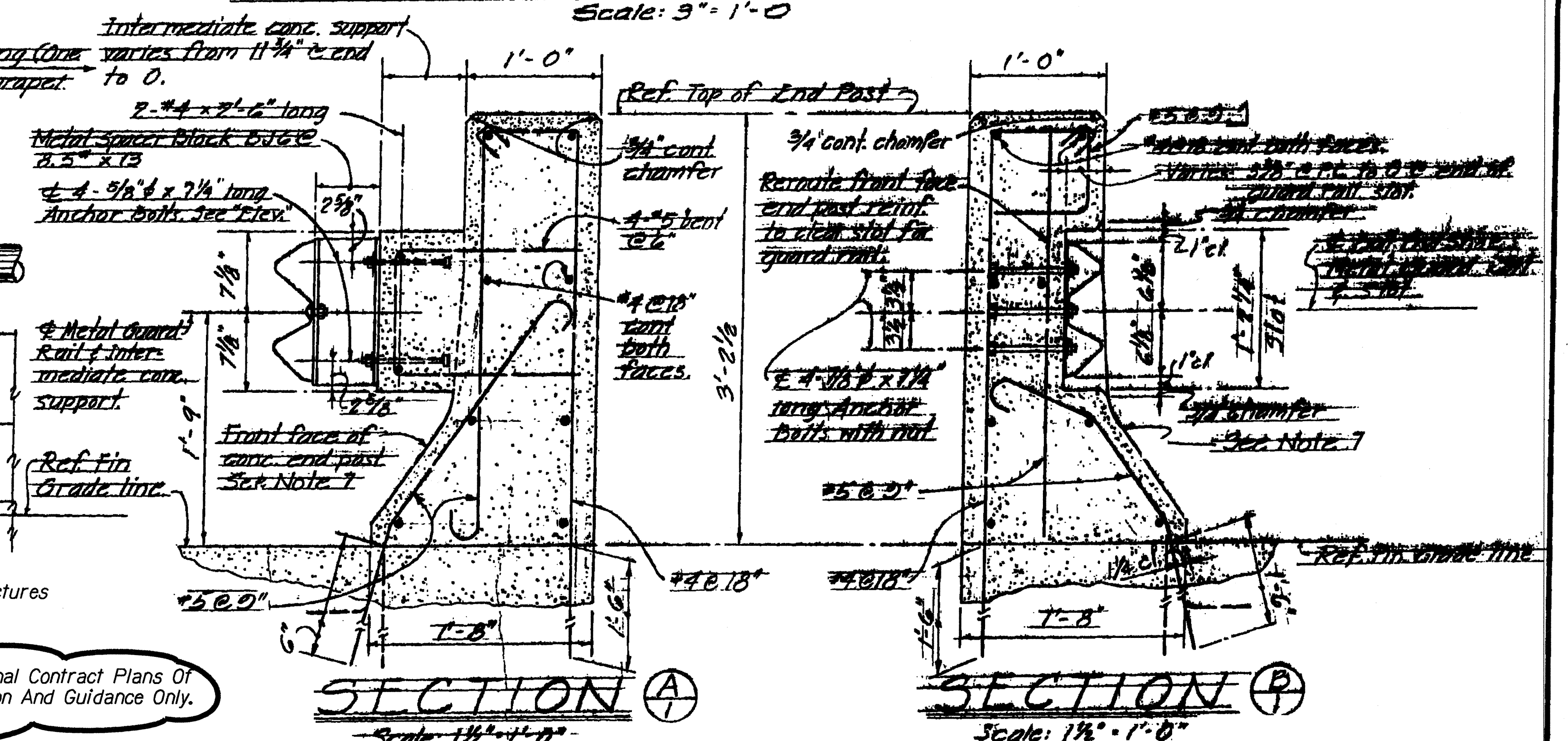
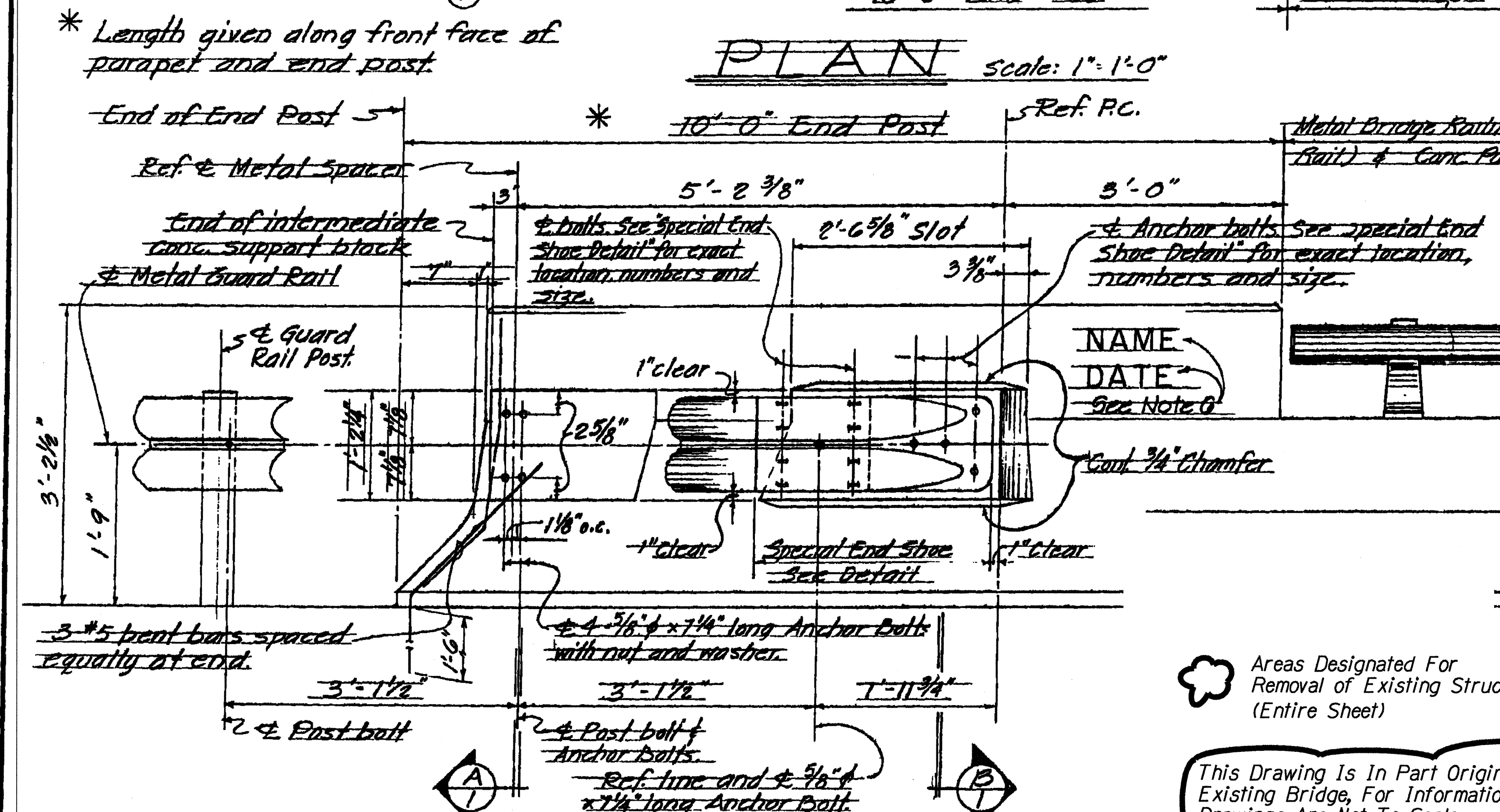
Sh. ES3 of 4 Sheets

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.				



SECTION ⑦ ELEVATION
SPECIAL END SHOE DETAILS

Scale: 3" = 1'-0"



 Areas Designated For
Removal of Existing Structures
(Entire Sheet)

This Drawing Is In Part Original Contract Plans Of Existing Bridge, For Information And Guidance Only. Drawings Are Not To Scale.

NOTES:

- ① ~~All Anchor Bolts shall be High Strength bolts conforming to the requirements of ASTM A325.~~
- ② ~~All Shoe assembly, including anchor bolts, nuts and washers, shall be galvanized.~~
- ③ ~~Special End Shoe shall be fabricated from 10 gage steel conforming to the requirements of AASMO 100.~~
- ④ ~~First 25'-0" of guard rail adjoining "Special End Shoe" shall be galvanized steel.~~
- ⑤ ~~Anchor Bolt length given from under bolt head.~~
- ⑥ ~~Place name of structure as shown. For location, see "Plan" on Contract Drawing. Date shown will be year structure is completed. Letter size and detail see standard Drawing DB-100.~~
- ⑦ ~~Front face of End Post to match front face of typical conc. parapet.~~

NO.	REVISION	APPROVED BY	DATE
1	Note 2 revised; 3'-1 1/2" post spacing extended to 25'-0". Note 6, 7 added.	H F	2-29-

APPROVAL RECOMMENDED:
Paul T. Yamashita
BRIDGE DESIGN ENGINEER

1-23-70
DATE

APPROVED *Paul T. Yamasaki*
 ASSISTANT CHIEF, ENGINEERING

1-28-76
DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

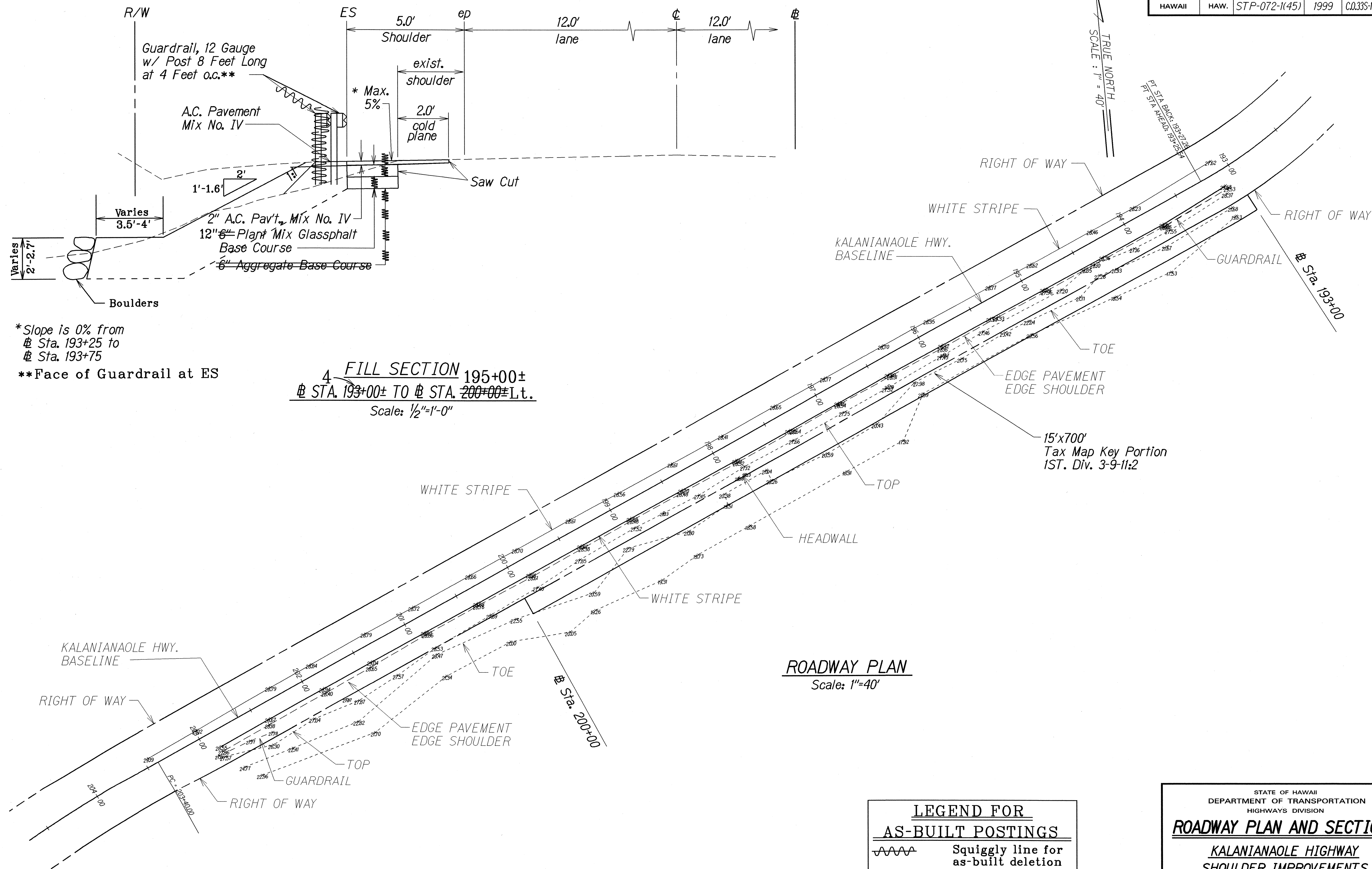
METAL GUARD RAIL CONNECTION

ONE RAIL COMBINATION TYPE END POST

Scale: AS SHOWN Date:

SHEET No. 54 OF 4 SHEETS DB

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-072-1(45)	1999	C.O.33S-1	33



"AS-BUILT"

C.O.33S-1