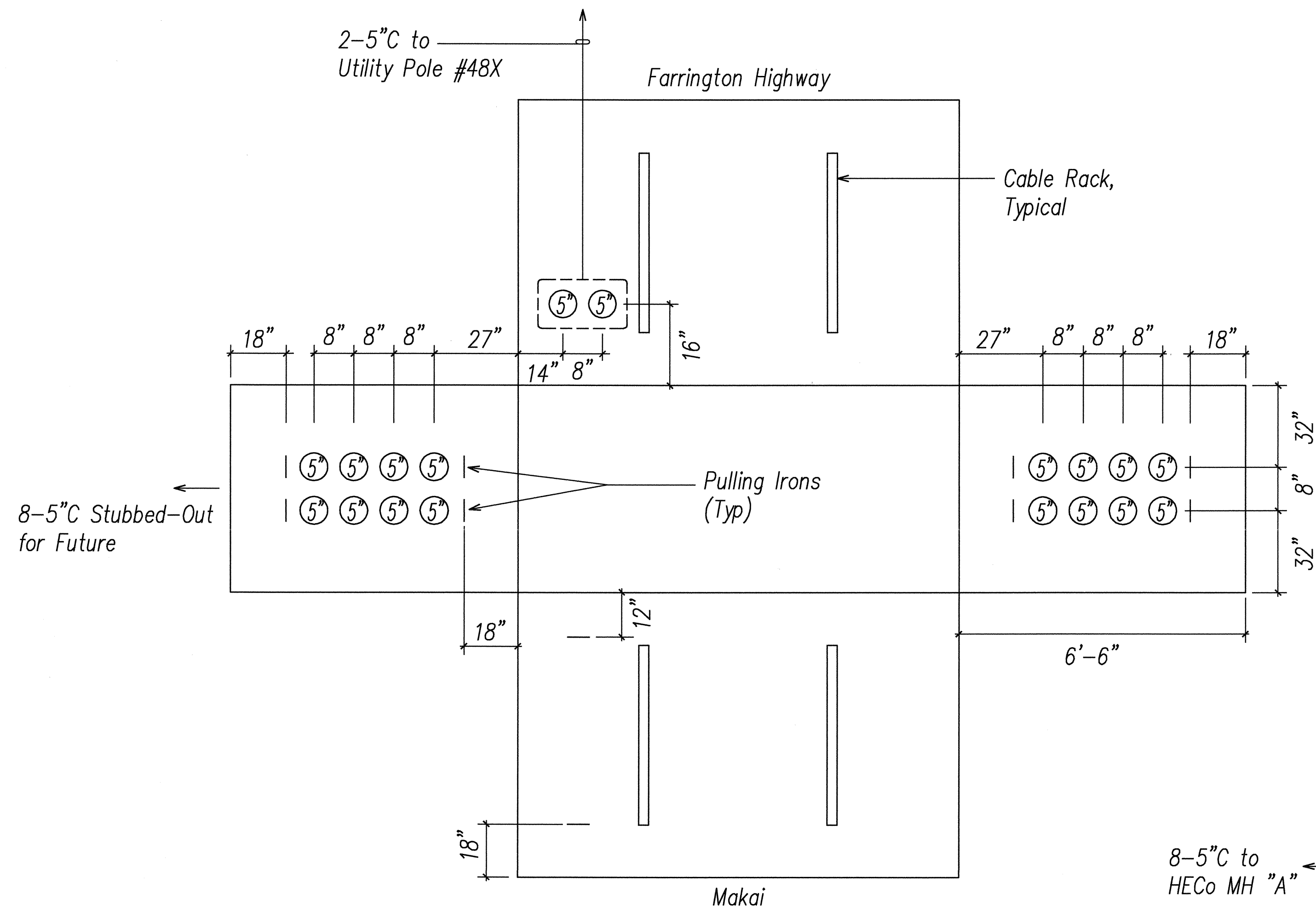
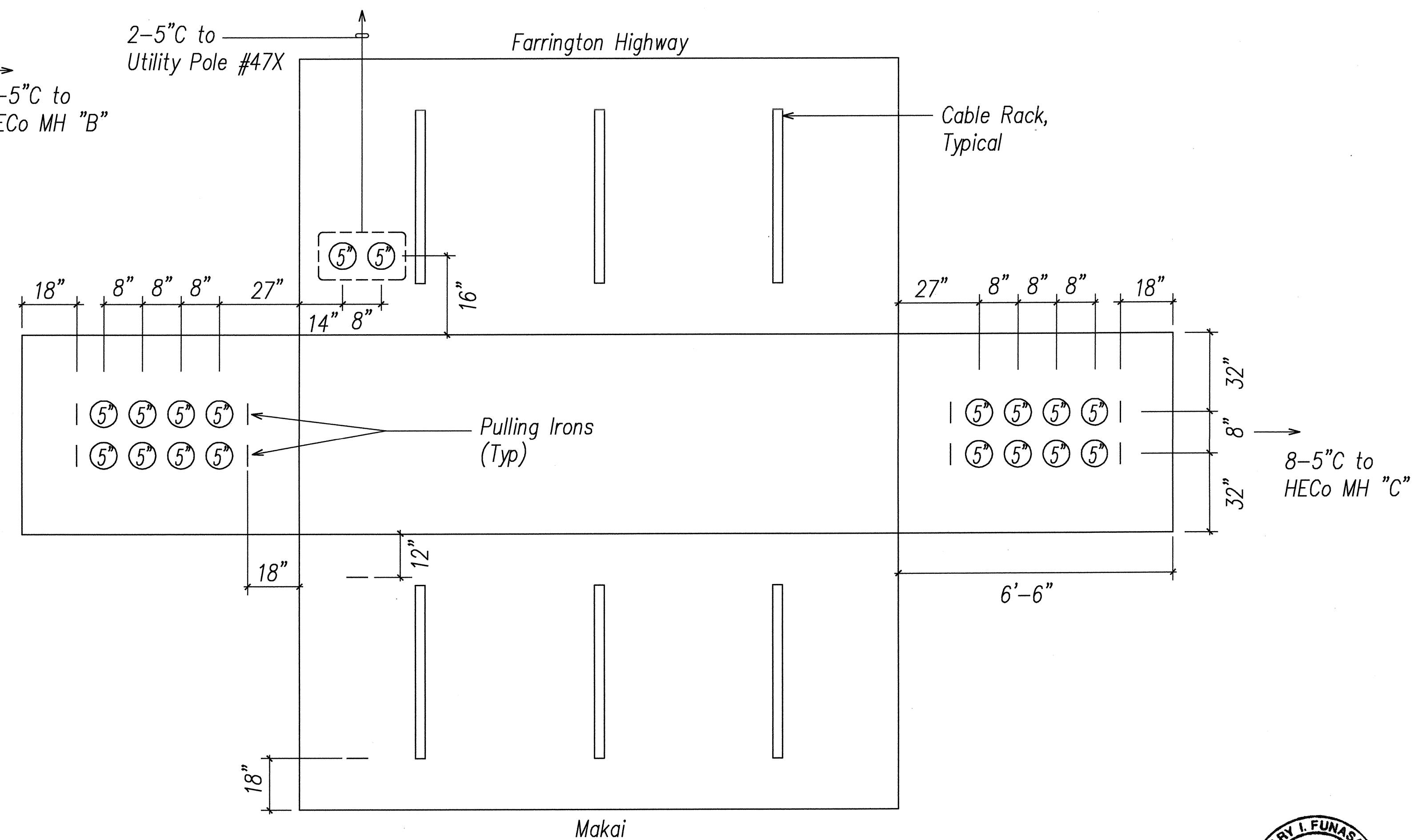


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(2)	2007	304	331



HECO 6' X 11' MANHOLE "A"



HECO 6' X 14' MANHOLE "B"

Notes:

- 1 Manhole Shop Drawings and Structural Calculations shall be submitted to Utility Company(s) for review and approval prior to fabrication.

ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

LAST DATE OF REVISION: 02/21/2007  
BY: HAWAIIAN ELECTRIC COMPANY, INC.

A MANHOLE DIAGRAMS I  
E2.23 NOT TO SCALE

APPROVED BY:

HAWAIIAN ELECTRIC COMPANY, INC.

DATE

DATE	REVISION

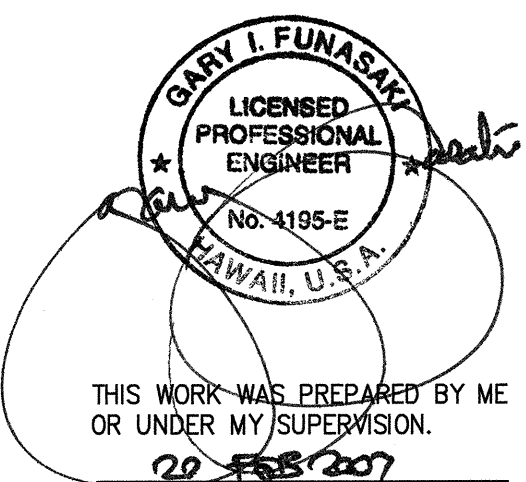
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

MANHOLE DIAGRAMS I

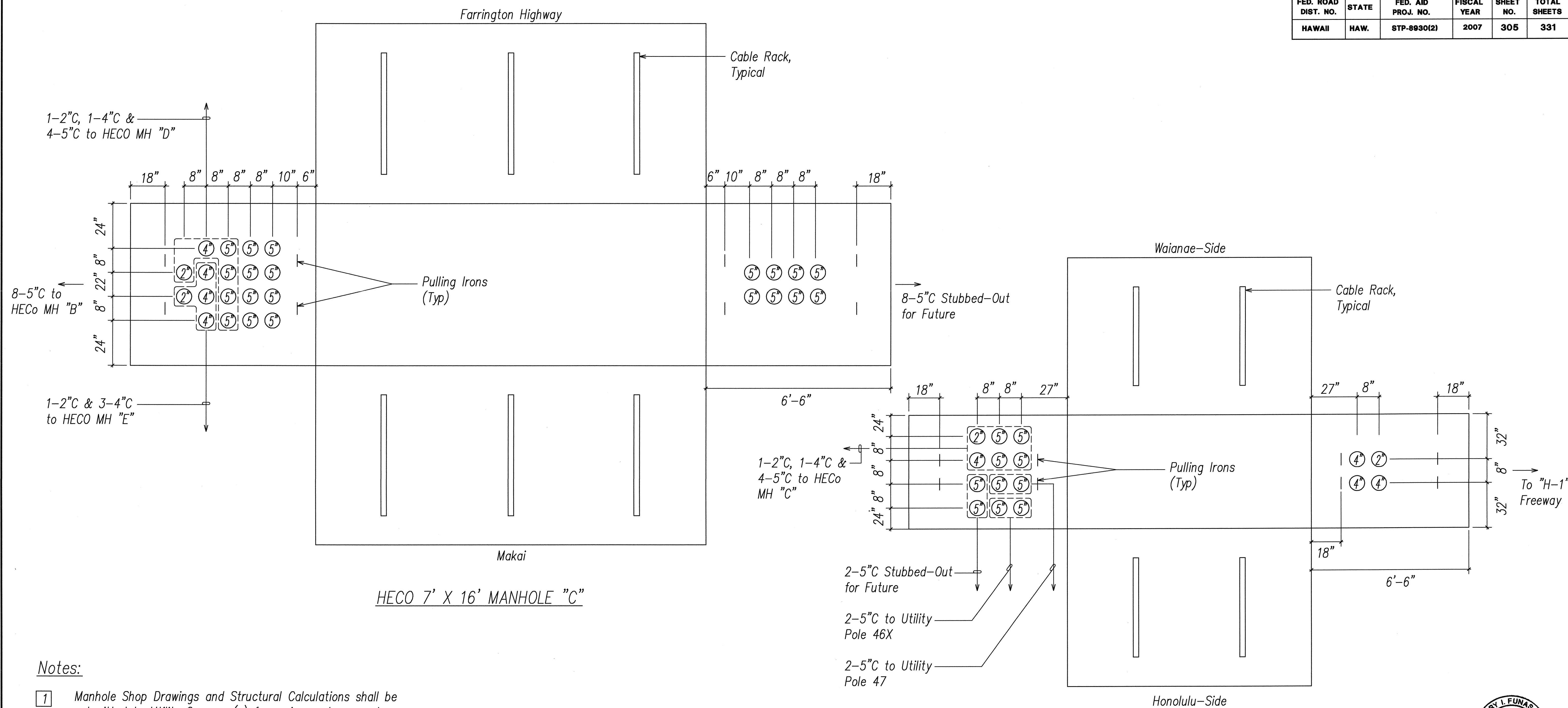
North-South Road  
Phase 1B  
F.A.I. Proj. No. STP-8930(2)

Scale: AS NOTED Date: Feb 21, 2007

SHEET No. E2.23 OF 62 SHEETS



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
HAWAII	HAW.	STP-8930(2)	2007	305	331



Notes:

- 1** Manhole Shop Drawings and Structural Calculations shall be submitted to Utility Company(s) for review and approval prior to fabrication.

ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
10.	CHECKED BY _____

AST SAVE: 02/20/07 @ 09:20:36 BY: RN PLOT SC 1'-0"=1'

**MANHOLE DIAGRAMS II**

APPROVED BY:

HAWAIIAN ELECTRIC COMPANY, INC.

DATE \_\_\_\_\_

DATE	REVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

## MANHOLE DIAGRAMS II

North-South Road

North-South Road  
Phase 1B  
F.A.I. Proj. No. STP-8930(2)

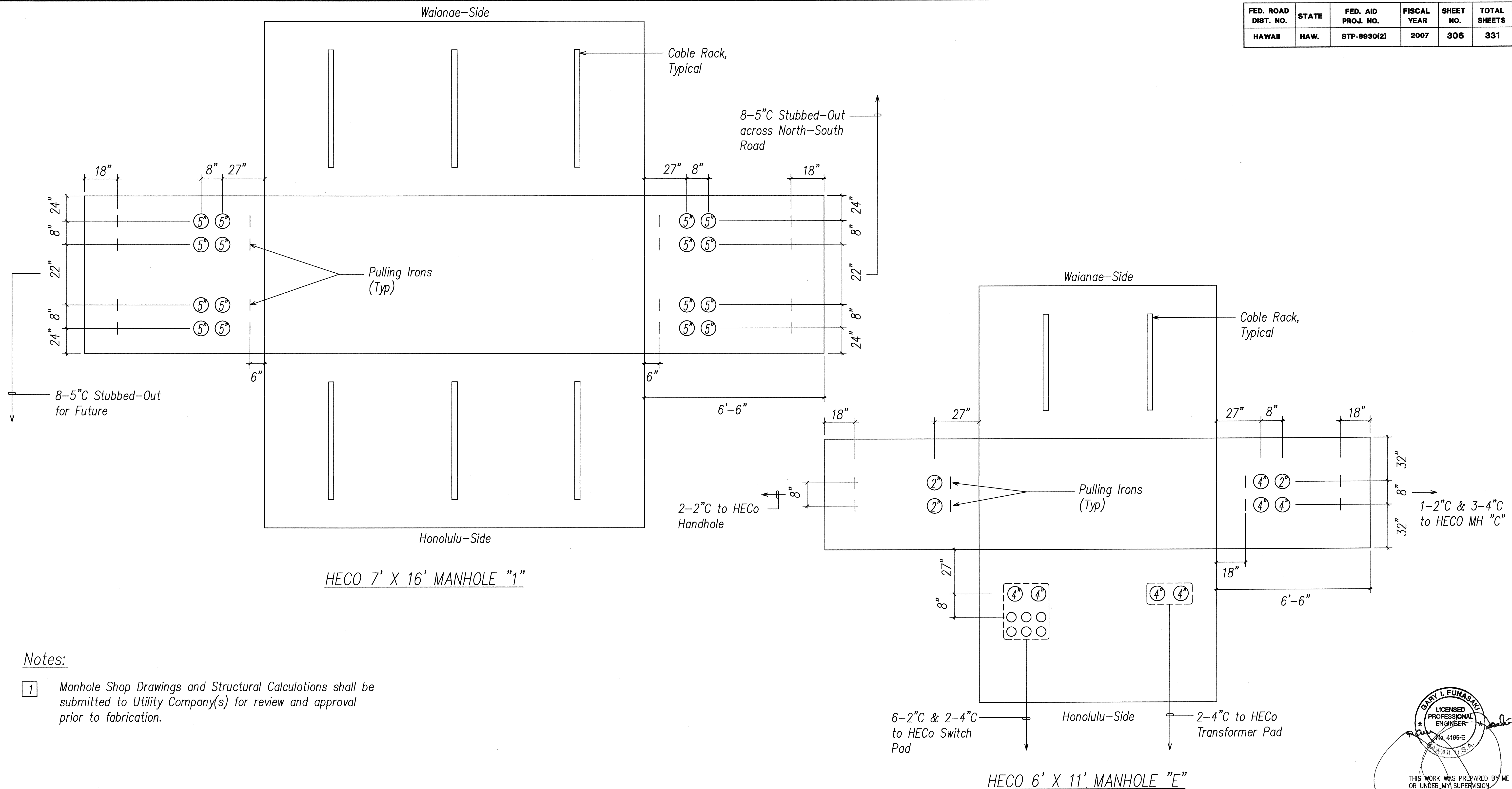
Scale: AS NOTED

Date: Feb 21, 2007

**SHEET No. E2.24 OF 62 SHEETS**

305

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(2)	2007	306	331



Notes:

- 1 Manhole Shop Drawings and Structural Calculations shall be submitted to Utility Company(s) for review and approval prior to fabrication.

DATE	
DESIGNED BY	
DRAWN BY	
CHECKED BY	
NOTED BY	
APPROVED BY	

LAST DATE: 02/21/2007  
 PROJECT: STP-8930(2) SHEET 306 OF 331  
 DRAWN BY: J. L. F. 10/25/06  
 CHECKED BY: J. L. F. 10/25/06  
 NOTED BY: J. L. F. 10/25/06  
 APPROVED BY: J. L. F. 10/25/06

**MANHOLE DIAGRAMS III**  
 NOT TO SCALE

APPROVED BY:

HAWAIIAN ELECTRIC COMPANY, INC.

DATE

DATE	REVISION

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**MANHOLE DIAGRAMS III**

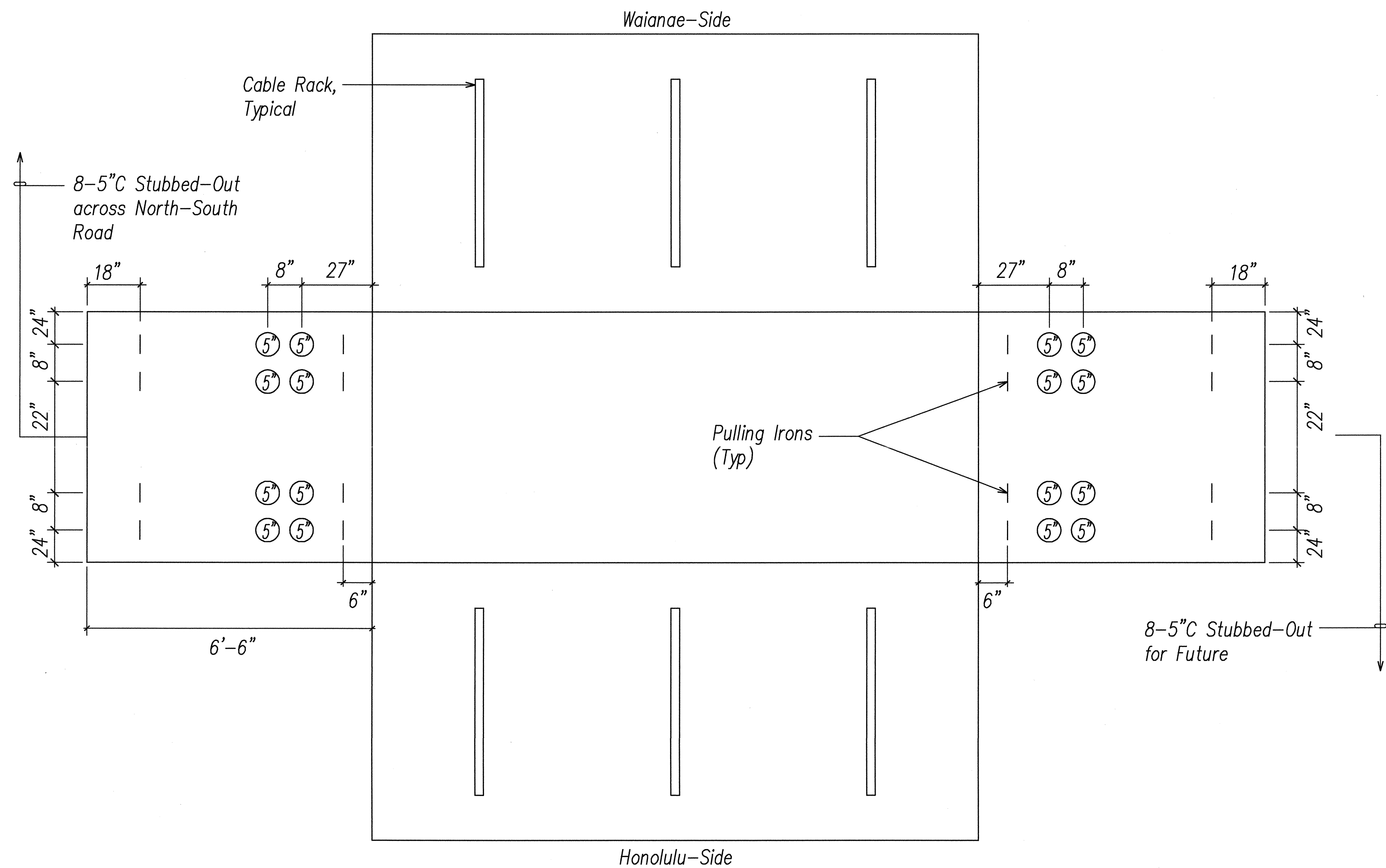
North-South Road  
 Phase 1B  
 F.A.I. Proj. No. STP-8930(2)

Scale: AS NOTED Date: Feb 21, 2007

**SHEET No. E2.25 OF 62 SHEETS**

GARY L. FUNASAKI  
 LICENSED PROFESSIONAL ENGINEER  
 No. 4195-E  
 HAWAII  
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION  
 20 FEB 2007

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(2)	2007	307	331



HECO 7' X 16' MANHOLE "2"

Notes:

- 1 Manhole Shop Drawings and Structural Calculations shall be submitted to Utility Company(s) for review and approval prior to fabrication.

ORIGINAL PLAN	DATE
NOTED BY	
DESIGNED BY	
DRAWN BY	
CHECKED BY	
APPROVED BY	

A MANHOLE DIAGRAMS IV  
E2.26 NOT TO SCALE

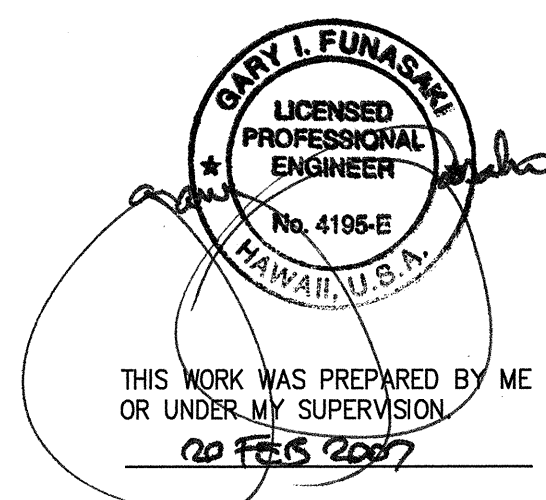
APPROVED BY:

HAWAIIAN ELECTRIC COMPANY, INC.

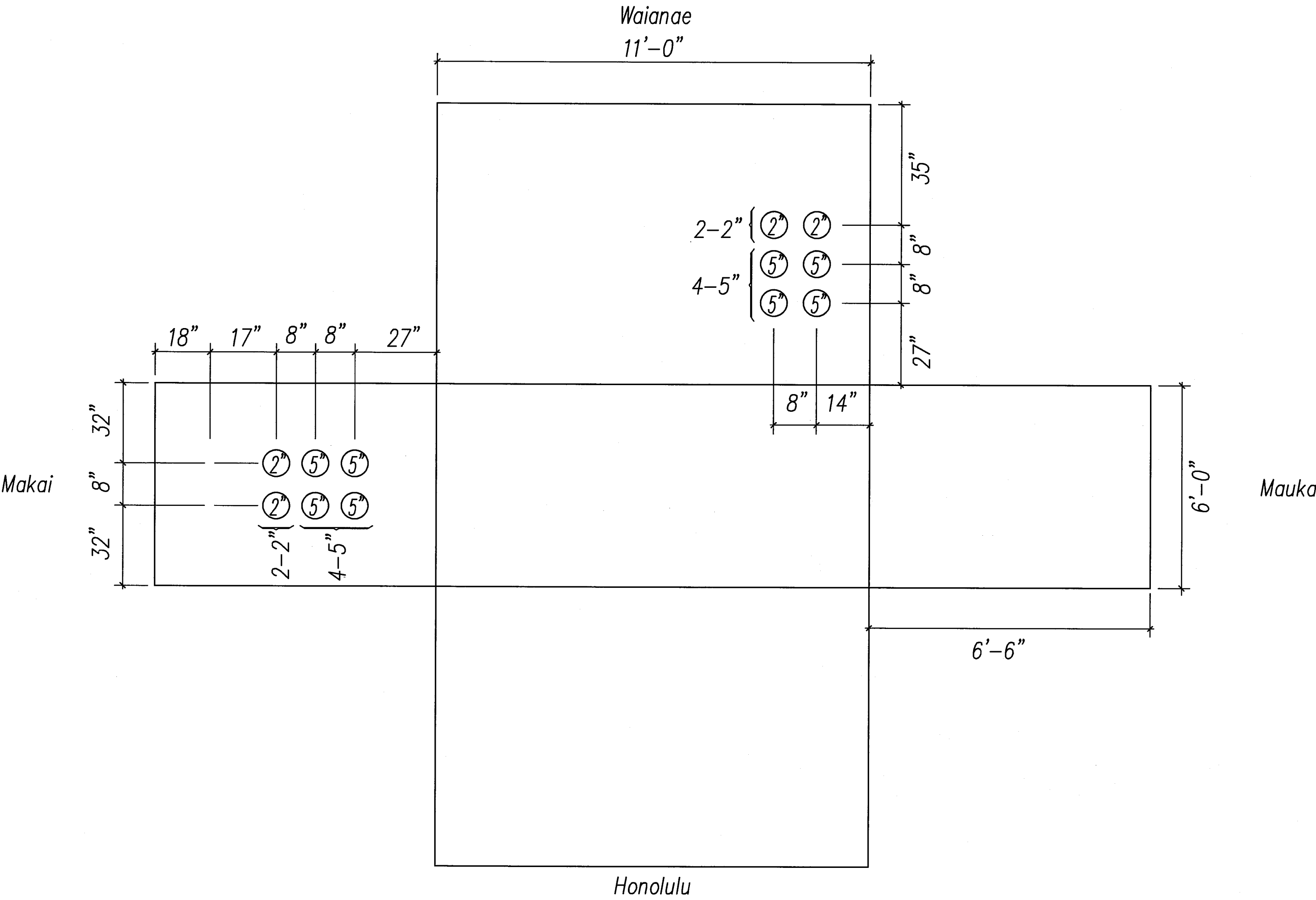
DATE

DATE	REVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**MANHOLE DIAGRAMS IV**  
  
North-South Road  
Phase 1B  
F.A.I. Proj. No. STP-8930(2)  
  
Scale: AS NOTED Date: Feb 21, 2007  
**SHEET No. E2.26 OF 62 SHEETS**



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(2)	2007	CO 307S-2	331



HECO 6' X 11' MANHOLE "F"

- Notes:
- 1 Manhole Shop Drawings and Structural Calculations shall be submitted to Utility Company(s) for review and approval prior to fabrication.

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

LAST SAVE: 06/09/08 @ 08:21:10 BY: SJ, PLOT SC: 1'-0"=1'  
Z:\ACAD\PROJECTS\2147\22-288-2747\_Bulwer\0408

A MANHOLE DIAGRAMS V  
E2.26B NOT TO SCALE

GARY I. FUNASAKI  
LICENSED PROFESSIONAL ENGINEER  
No. 4106-E  
HAWAII, U.S.A.  
THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION.  
1 July 2008  
SIGNATURE DATE OF LICENSE EXPIRATION APRIL 30, 2010

**Community Planning and Engineering, Inc.**  
Engineering Design | Construction Management | Infrastructure Planning  
100 Alakea Street, Sixth Floor Honolulu, Hawaii

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**MANHOLE DIAGRAMS V**

North-South Road  
Phase 1B  
F.A.I. Proj. No. STP-8930(2)

Scale: AS NOTED Date:

SHEET No. E2.26B OF 62 SHEETS



