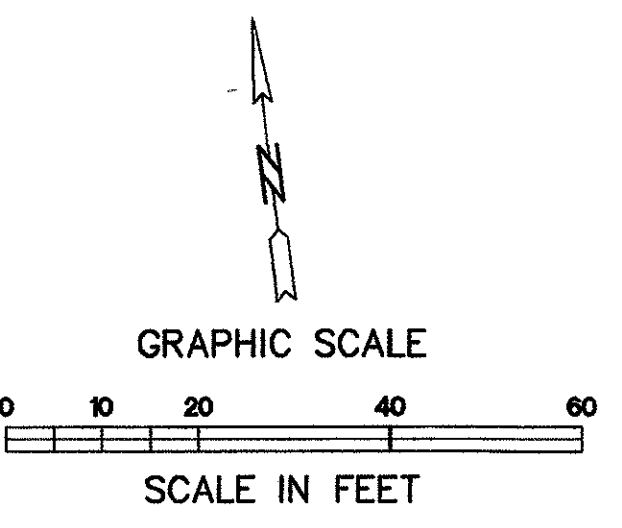




STA 0+27.12 O/S 41.10' LT
KALANIANA'OLE HWY (STATE) R=

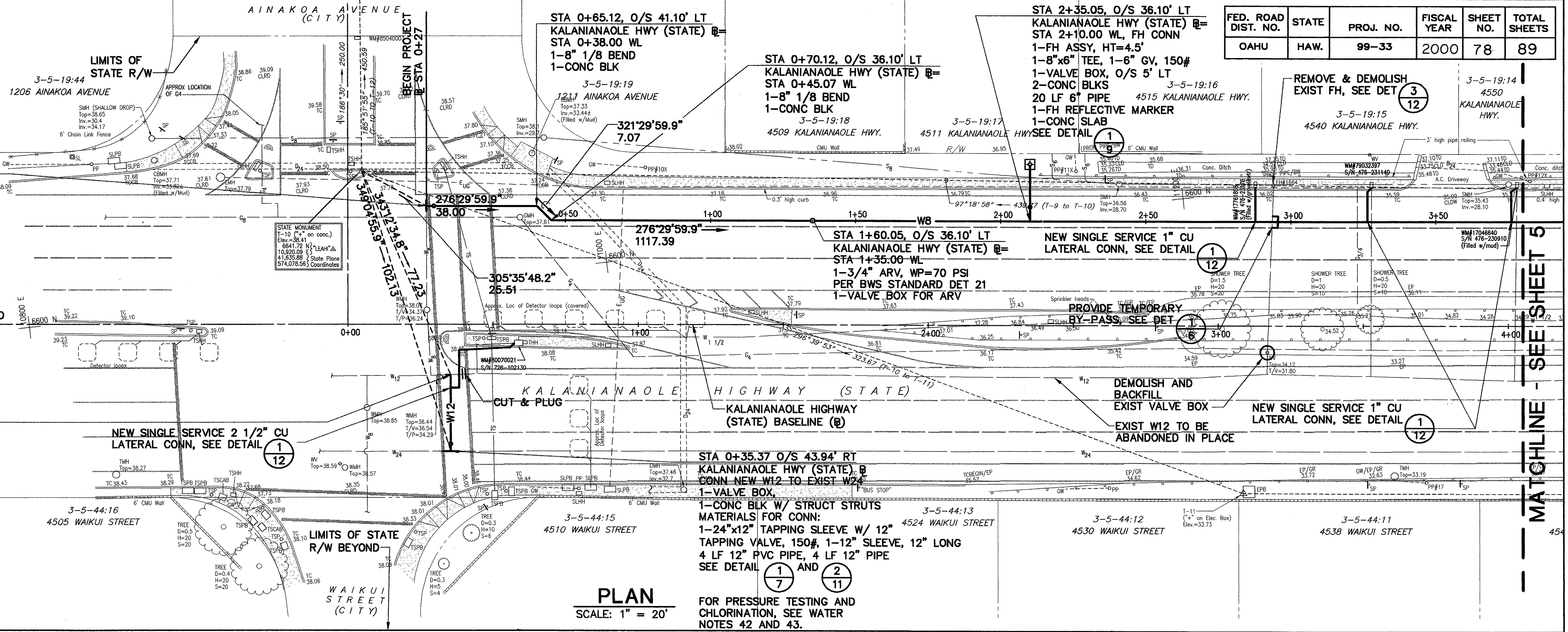
STA 0+00.00 BEGIN 8" WATERLINE
CONN NEW W8 TO EXIST W8
1-VALVE BOX,
1-CONC BLK W/ STRUCT STRUTS.
MATERIALS FOR CONN:
1-8"x8" TAPPING SLEEVE W/
8" TAPPING VALVE, 150#
1-8" SLEEVE, 12" LONG
4 LF 8" PVC PIPE, 4 LF 8" PIPE
TEMPORARY FOR TESTING:
1-8" CAP TAPPED WITH 2 1/2" CO
1-CONC BLK
SEE DETAIL (1) (11)

STA 0+35.37 O/S 17.43' RT
KALANIANA'OLE HWY (STATE) R=

CONN NEW W12 TO EXIST W12
1-CONC BLK W/ STRUCT STRUTS
MATERIALS FOR CONN:
1-12" 1/4 BEND,
1-12" SLEEVE, 12" LONG
4 LF 12" PVC PIPE,
4 LF 12" PIPE
SEE DETAIL (1) AND (2) (7) (11)

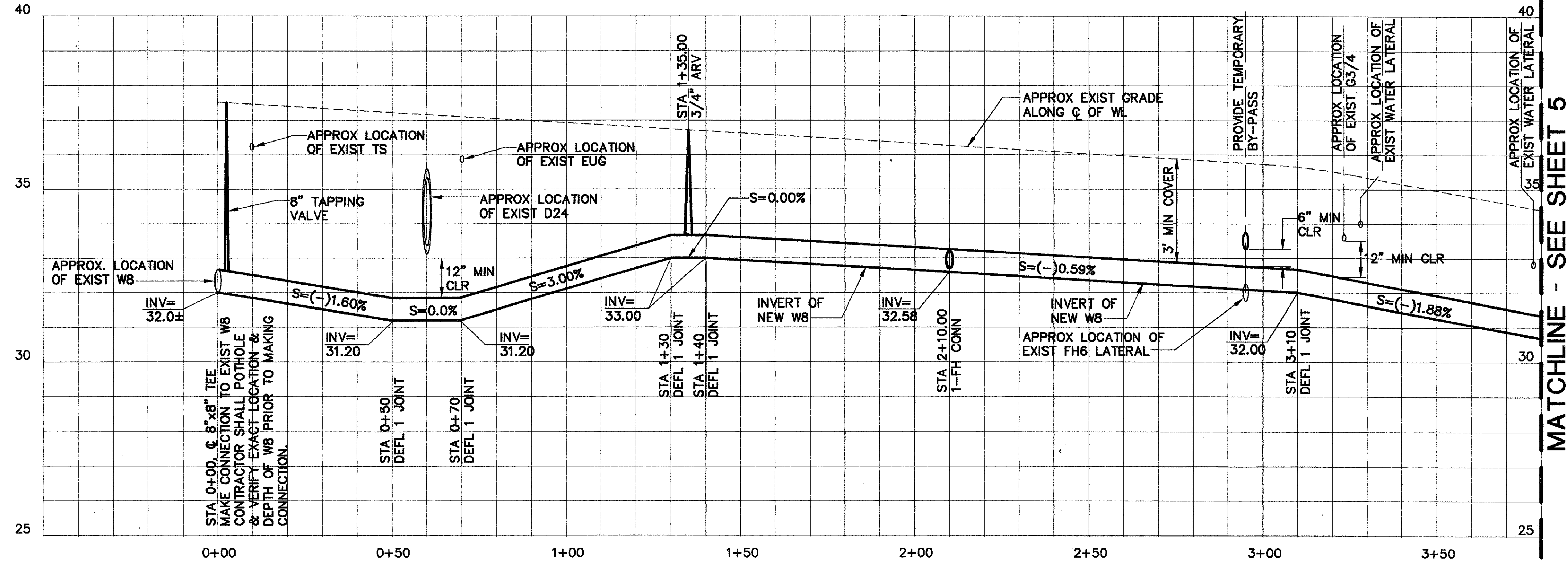
FOR PRESSURE TESTING AND
CHLORINATION, SEE WATER
NOTES 42 AND 43.

NOTE: RESTRAIN EXIST 12" GV
PRIOR TO CONN



PLAN
SCALE: 1" = 20'

FOR PRESSURE TESTING AND
CHLORINATION, SEE WATER
NOTES 42 AND 43.



PROFILE
SCALE: HORIZ 1" = 20'
VERT 1" = 2'

APPROVED:

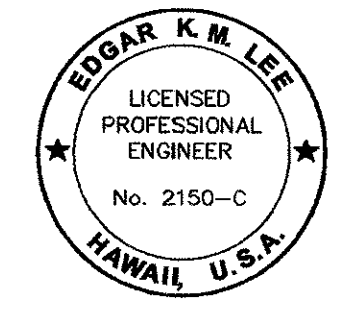
Michael J. Lee
CHIEF, PLANNING AND ENGINEERING DIVISION
BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

7/13/99
DATE

Dennis M. Williams
CHIEF, WASTEWATER BRANCH, DPP
CITY AND COUNTY OF HONOLULU
(FOR EFFECT ON CITY SEWERS ONLY)

7/16/99
DATE

ENGINEERING DESIGN GROUP
1525 YOUNG STREET
HONOLULU, HAWAII 96826



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WATER PLAN AND PROFILE

**KALANIANA'OLE HIGHWAY
8-INCH WATER MAIN
AINAKOA AVENUE TO LAUKAHI STREET
JOB 99-33**

Scale: As Shown Date: May 1999
SHEET No. 4 OF 12 SHEETS

Edgar K.M. Lee
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

KALANI HIGH SCHOOL

3-5-20:04

**STA 17+18.55, O/S 42.68' RT
KALANIANAʻOLE HWY (STATE) R**
1-FH ASSY, HT=5.5'
1-VALVE BOX
1-CONC BLK W/ STRUCT STRUTS
6 LF 6" PIPE, 1-CONC BLK
1-FH REFLECTIVE MARKER
1-CONC SLAB
MATERIALS FOR CONN:
1-24"x6" TAPPING SLEEVE W/
6" TAPPING VALVE, 150#
4 LF 6" PVC PIPE, 4 LF 6" PIPE
1-6" SLEEVE, 12" LONG
SEE DETAIL AND

FOR PRESSURE TESTING AND CHLORINATION SEE WATER NOTES 42 & 43

GRAPHIC SCALE
SCALE IN FEET
0 10 20 40 60

STA 19+30.61, O/S 12.80' LT
1-8" 1/8 BEND
1-CONC BLK

APPROX LIMITS OF EXIST CONC JACKET

CUT & PLUG

DEMOLISH AND BACKFILL EXIST MANHOLE. SALVAGE CAST IRON FRAMES AND COVERS

EXIST W12 TO BE ABANDONED IN PLACE

REMOVE AND DEMOLISH EXIST FH SEE DETAIL

NEW MULTIPLE SERVICE 2 1/2" CU LATERAL CONN, TYP, SEE DETAIL

NEW SINGLE SERVICE 1 1/2" CU LATERAL CONN-SEE DETAIL

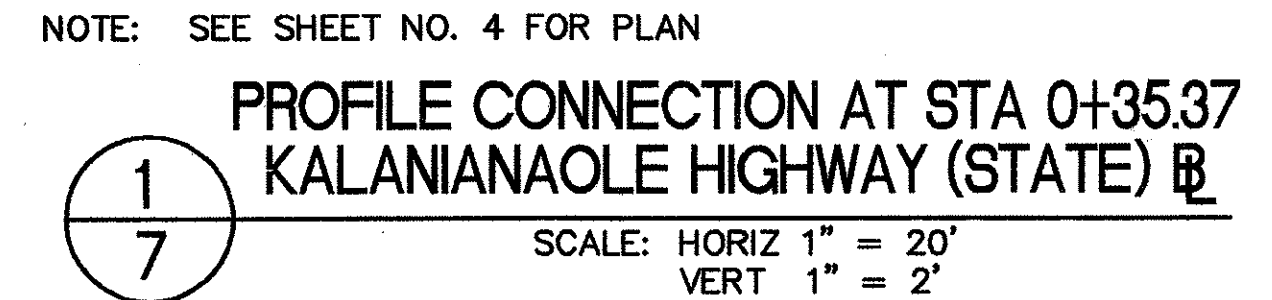
CONNECT TO EXIST 2 1/2" CU LATERAL

APPROX LOCATION OF EXIST 2 1/2" LATERAL

LIMITS OF STATE R/W BEYOND

PLAN
SCALE: 1" = 20'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
OAHU	HAW.	99-33	2000	81	89



Michael Fuku 7/13/99
 AS CHIEF, PLANNING AND ENGINEERING DIVISION DATE
 BOARD OF WATER SUPPLY
 CITY AND COUNTY OF HONOLULU

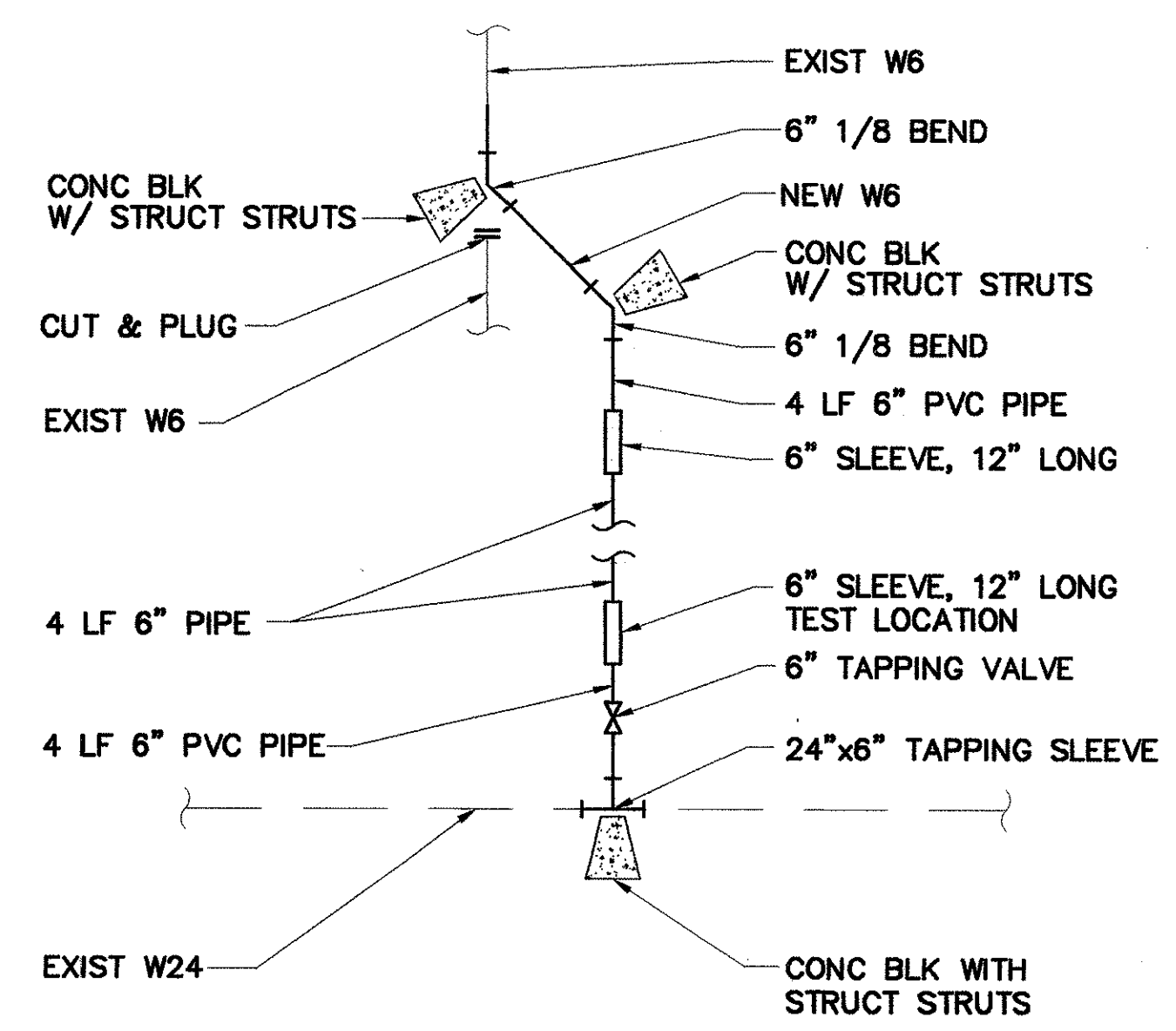
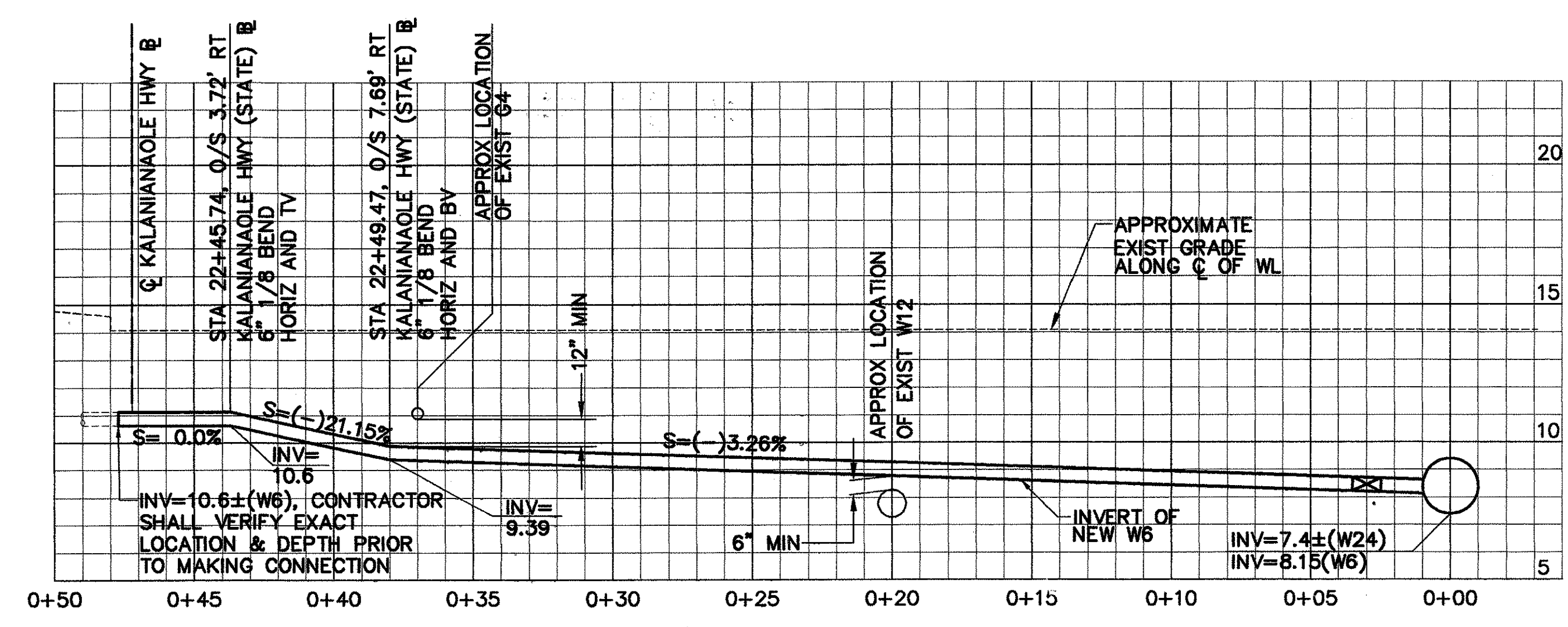
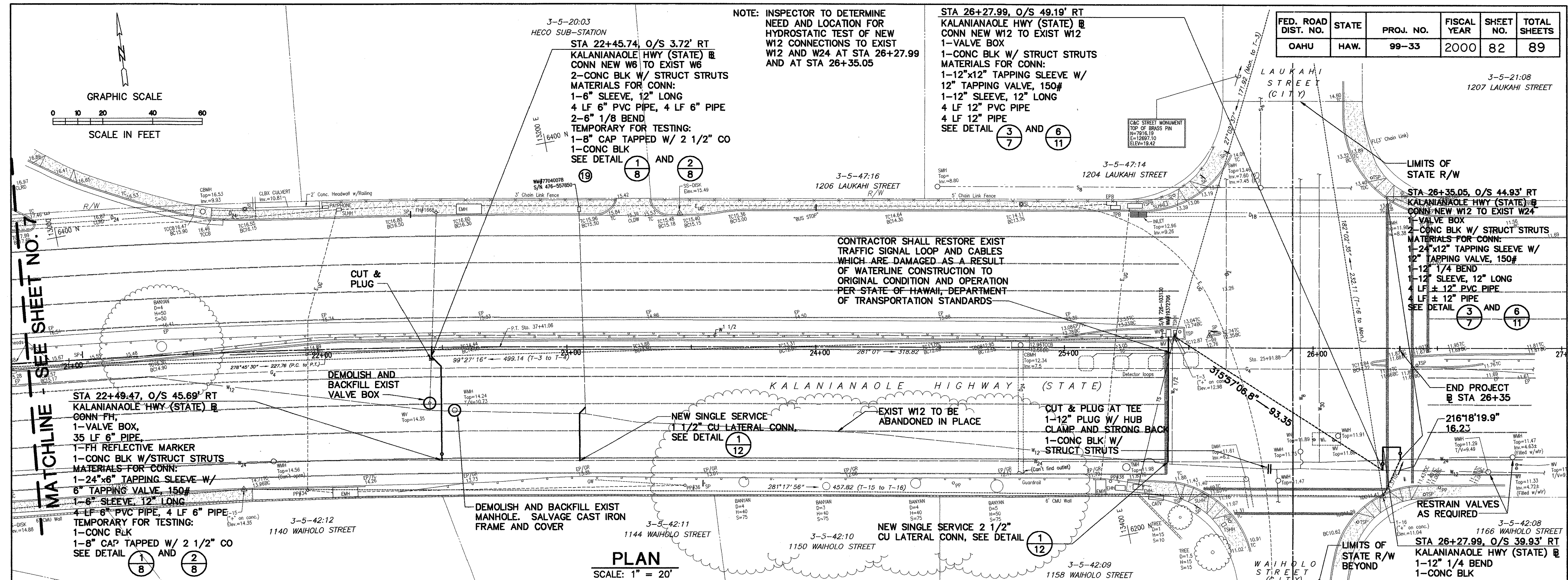
Dennis M. Nickerson 7/16/99
 CHIEF, WASTEWATER BRANCH, DPP DATE
 CITY AND COUNTY OF HONOLULU
 (FOR EFFECT ON CITY SEWERS ONLY)



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KALANIANA'OLE HIGHWAY
8-INCH WATER MAIN
AINAKOA AVENUE TO LAUKAHU STREET
JOB 99-33

Scale: As Shown Date: May 1999
SHEET No. 7 OF 12 SHEETS

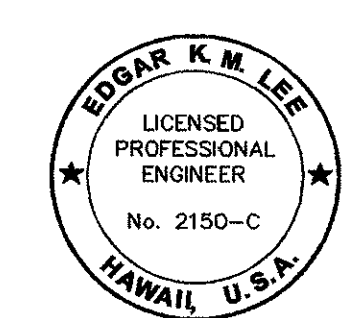


APPROVED:

Michael Tule
CHIEF, PLANNING AND ENGINEERING DIVISION
BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU
7/13/99
DATE

Dennis M. Williams
CHIEF, WASTEWATER BRANCH, DRP
CITY AND COUNTY OF HONOLULU
(FOR EFFECT ON CITY SEWERS ONLY)
7/16/99
DATE

ENGINEERING DESIGN GROUP
1525 YOUNG STREET
HONOLULU, HAWAII 96826



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
WATER PLAN AND PROFILE
KALANIANAʻOLE HIGHWAY
8-INCH WATER MAIN
ANAKOA AVENUE TO LAUKAHI STREET
JOB 99-33
Scale: As Shown Date: May 1999
SHEET No. 8 OF 12 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	