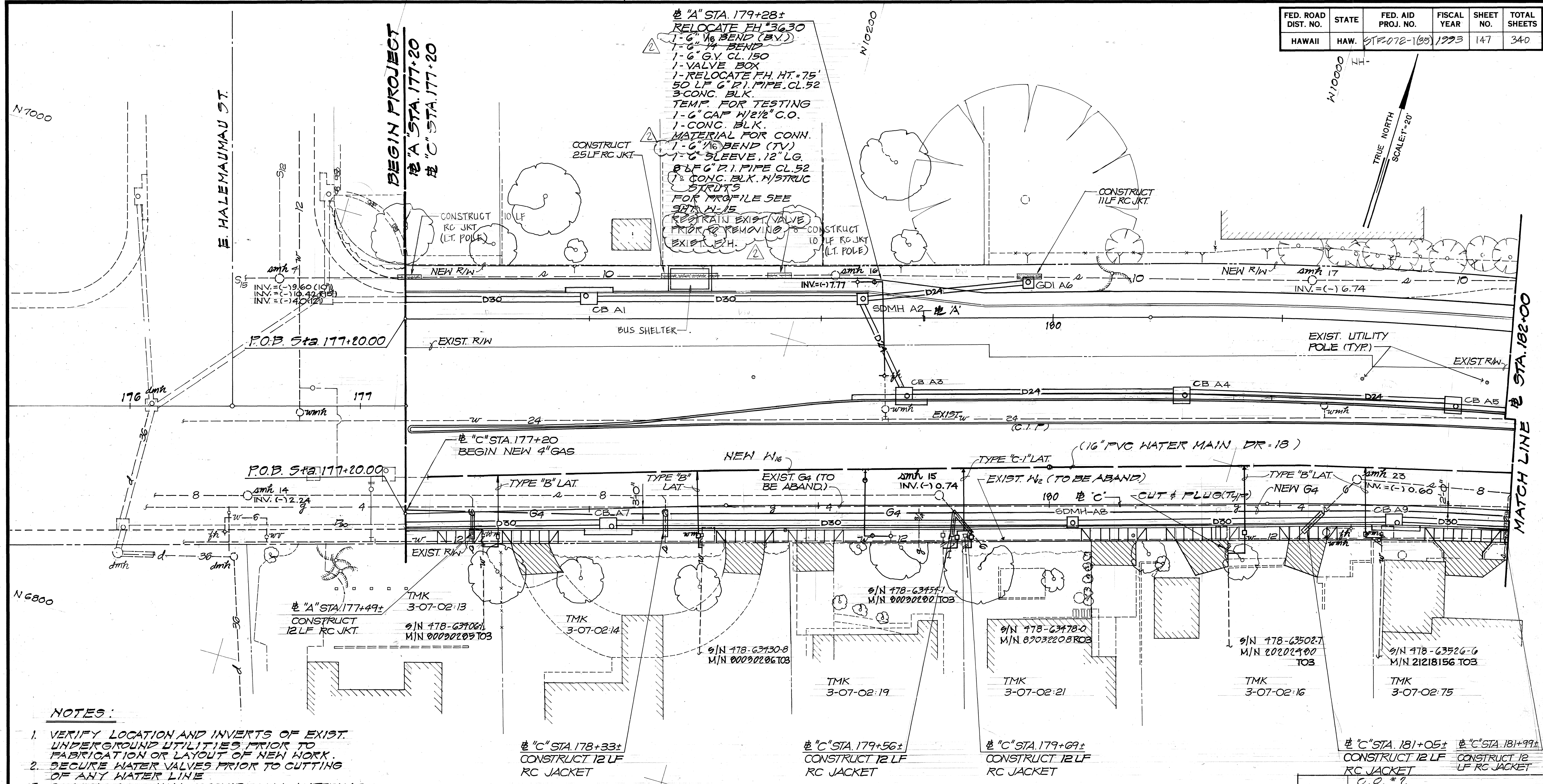


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-072-1(35)	1993	147	340



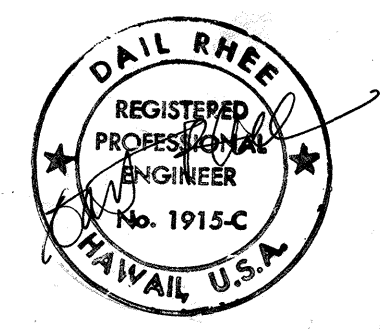
NOTES:

1. VERIFY LOCATION AND INVERTS OF EXIST. UNDERGROUND UTILITIES PRIOR TO FABRICATION OR LAYOUT OF NEW WORK.
2. SECURE WATER VALVES PRIOR TO CUTTING OF ANY WATER LINE
3. CONTRACTOR SHALL PROVIDE ALL MATERIALS FOR TESTING.
4. FOR ADDITIONAL NOTES, SEE PLAN SHEETS F1 & F2.
5. ALL METER BOXES SHALL BE TYPE "X" BOX UNLESS OTHERWISE NOTED.
6. FOR SMH ADJ. DETAIL, SEE SHT. F-20.
7. FOR ALL O/F SERVICES, INSTALL BLIND METER SPLICE TO ACCOMMODATE 1" METER AND ALL APPURTENANCES IN ACCORDANCE WITH BWS STANDARDS. N.I.C.

8. FOR EXIST. WATER METERS TO BE RELOCATED 5' OR LESS RE-USE EXIST VALVES.
9. O/F SERVICES ARE NOT TO BE RECONNECTED TO WATER MAIN UNLESS BLIND METER SPLICE IS CALLED OUT

DATE	
DESIGNED BY	
CHECKED BY	
NO.	

Approved: <i>Edwin A. Santos</i>	Date: 4/23/93	Approved: <i>A. M. ...</i>	Date: 11-17-93	Approved: <i>G. ...</i>	Date: 7/2/93
Gasco, Inc.		Chief, Planning and Engineering Board of Water Supply		Chief, Division of Wastewater Management Department of Public Works City and County of Honolulu	



6/30/93	C.O. #1
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
UTILITY PLAN SEWER, WATER & GAS	
KALANIANA'OLE HIGHWAY E. HALEMAUAMAU ST. TO KEAHOLE ST. F.A. PROJECT NO. STP-072-1(35)	
Scale:	Date: 10/1/92
SHEET No. F3 OF 20 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP072-1(35)	1993	146	340

"A" STA. 184+58 (9% 32' RT.)
CONNECT TO EXIST. 24" C.I.P.
INSTALL NEW F.H.
2-6" 1/8 BENDS
1-6" 1/4 BEND
1-6" G.V. CL. 150
1-VALVE BOX
1-TYPE "C-1" LATERAL
2-TYPE "X" METER BOXES
2-RELOCATE WATER METERS
1-F.H. HT. 4.5'
53' LF 6" D.I.P. CL. 52
4-CONC. BLKS.
MATERIALS FOR CONNECTION
1-24"x6" TAPPING SLEEVE
1-6" TAPPING VALVE, CL. 150
1-MODIFIED TYPE "A" MH, HT. 8'
10LF 6" D.I.P. CL. 52
1-6" SLEEVE, 12" LG.
1-CONC. BLK. 4" STRUC. STRUTS
TEMP. FOR TESTING
1-6" CAP 1 1/2" CO.
1-CONC. BLK.
FOR PROFILE, SEE SHT. W-15

"A" STA. 185+28
INSTALL TYPE "D-1" LAT.
2-TYPE "X" METER BOXES
2-RELOCATE WATER METERS
2-1 1/4" GATE VALVES
2-VALVE BOXES

S/N 480-52624-4
M/N 11961412 T04

S/N 480-52672-0
M/N 19388067 T06

S/N 480-52600-0
M/N 21960952 T04

"A" STA. 187+53
CONN. TO EXIST.
24" C.I.P. INSTALL
NEW F.H.

S/N 480-52648
9F 1/23/64

S/N 480-52676-1
M/N 20163421 T03

"A" STA. 185+58
INSTALL TYPE "E-1" LAT.
1-TYPE "X" METER BOX
1-TYPE II METER BOX
2-RELOCATE WATER METERS
1-1" GATE VALVE
1-1 1/2" GATE VALVE
2-VALVE BOXES

"A" STA. 187+60
INSTALL TYPE "D-1" LAT.
2-TYPE "X" METER BOXES
(FOR FUTURE NTR. METER)
2-1" GATE VALVES
2-VALVE BOXES
FLOW = 50 gpm / METER

FOR LANDSCAPE
IRRIGATION FLOW
REQUIREMENTS
42 gpm
210 gpd

MATCH LINE

MATCH LINE

STA. 182+00

STA. 188+00

"C" STA. 182+35
CONSTRUCT 12 LF
RC JKT

S/N 478-63550-0
M/N 87023779 R02

TMK
3-07-02:05

S/N 478-63574-2
M/N 33016765 T04

TMK
3-07-02:04

S/N 478-63598-5
M/N 15286064 T04

TMK
3-07-02:03

S/N 478-63622-1
M/N 90036210 T03

TMK
3-07-02:78

S/N 478-63646-3
M/N 87030762 R03

TMK
3-07-02:02

S/N 478-63670-0
M/N 78030415 B03

TMK
3-07-02:18

TMK
3-07-02:77

TMK
3-07-02:76

S/N 478-63718-4
M/N 700-35484 T03

TMK
3-07-02:17

TMK
3-07-02:79
S/N 478-63742-1
M/N 82022235 R02

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UTILITY PLAN
SEWER, WATER & GAS

KALANIANA'OLE HIGHWAY
E. HALEMAUMAU ST. TO KEAHOE ST.
F.A. PROJECT NOSTP-072-1(35)

Scale: NH Date: 10/1/92
SHEET No. 146 OF 20 SHEETS

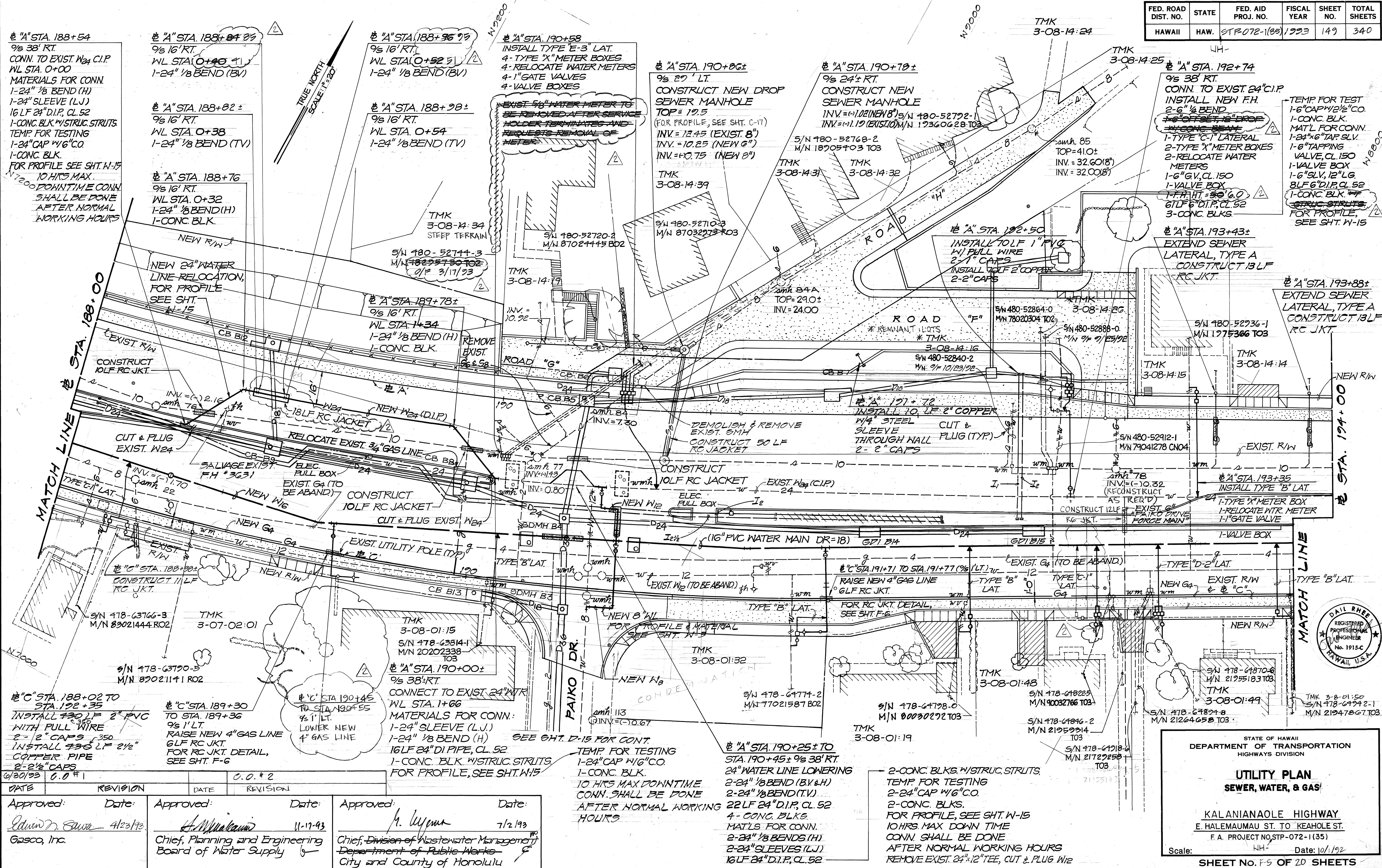


DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

Approved: <i>Edwin N. Sauer</i> 4/23/93 Gasco, Inc.	Approved: <i>H. M. [Signature]</i> 11-17-93 Chief, Planning and Engineering Board of Water Supply	Approved: <i>G. [Signature]</i> 7/2/93 Chief, Division of Wastewater Management Department of Public Works City and County of Honolulu
--	---	---

DATE	0.0. #2
DATE	0.0. #1
DATE	REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-072-1(35)	1993	149	340



DATE	REVISION

DATE	REVISION	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

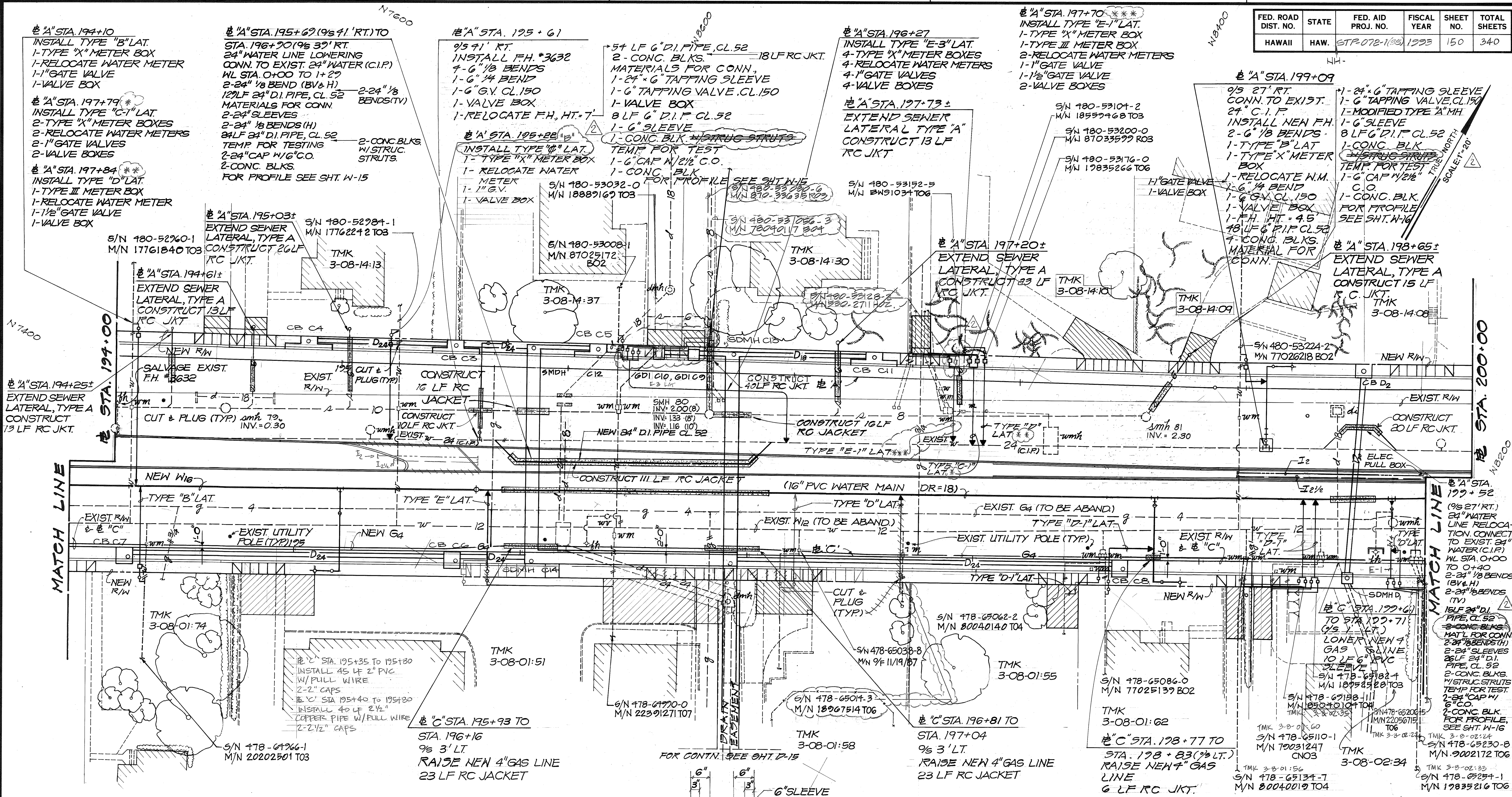
**UTILITY PLAN
SEWER, WATER, & GAS**

KALANIANA'OLE HIGHWAY
E. HALEMAUMAU ST. TO KEAHOLE ST.
F.A. PROJECT NO. STP-072-1(35)

Scale: NH Date: 10/1/92

SHEET No. 149 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-072-1(35)	1993	150	340

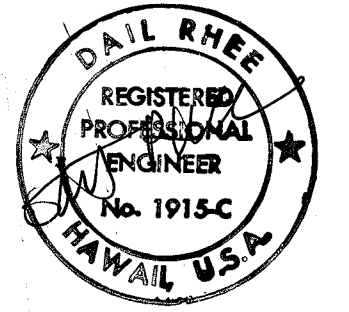
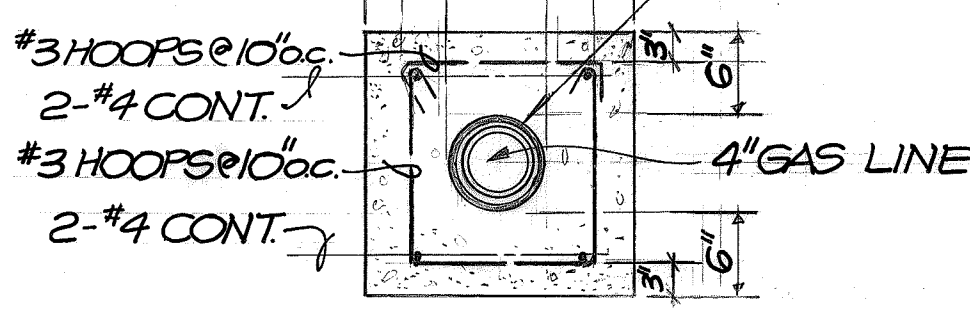


DATE	REVISION
0.0.*2	
6/30/93	0.0.*1

Approved: <i>[Signature]</i> Gasco, Inc.	Date: 4/23/93	Approved: <i>[Signature]</i> Chief, Planning and Engineering Board of Water Supply	Date: 11-17-93	Approved: <i>[Signature]</i> Chief, Division of Wastewater Management Department of Public Works City and County of Honolulu	Date: 7/2/93
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REINFORCED CONCRETE JACKET FOR 4" GAS LINE

NO SCALE



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**UTILITY PLAN
SEWER, WATER, & GAS**

KALANIANA'OLE HIGHWAY
E. KALEMAUMAU ST. TO KEAHOLE ST.
F.A. PROJECT NO. STP-072-1(35)

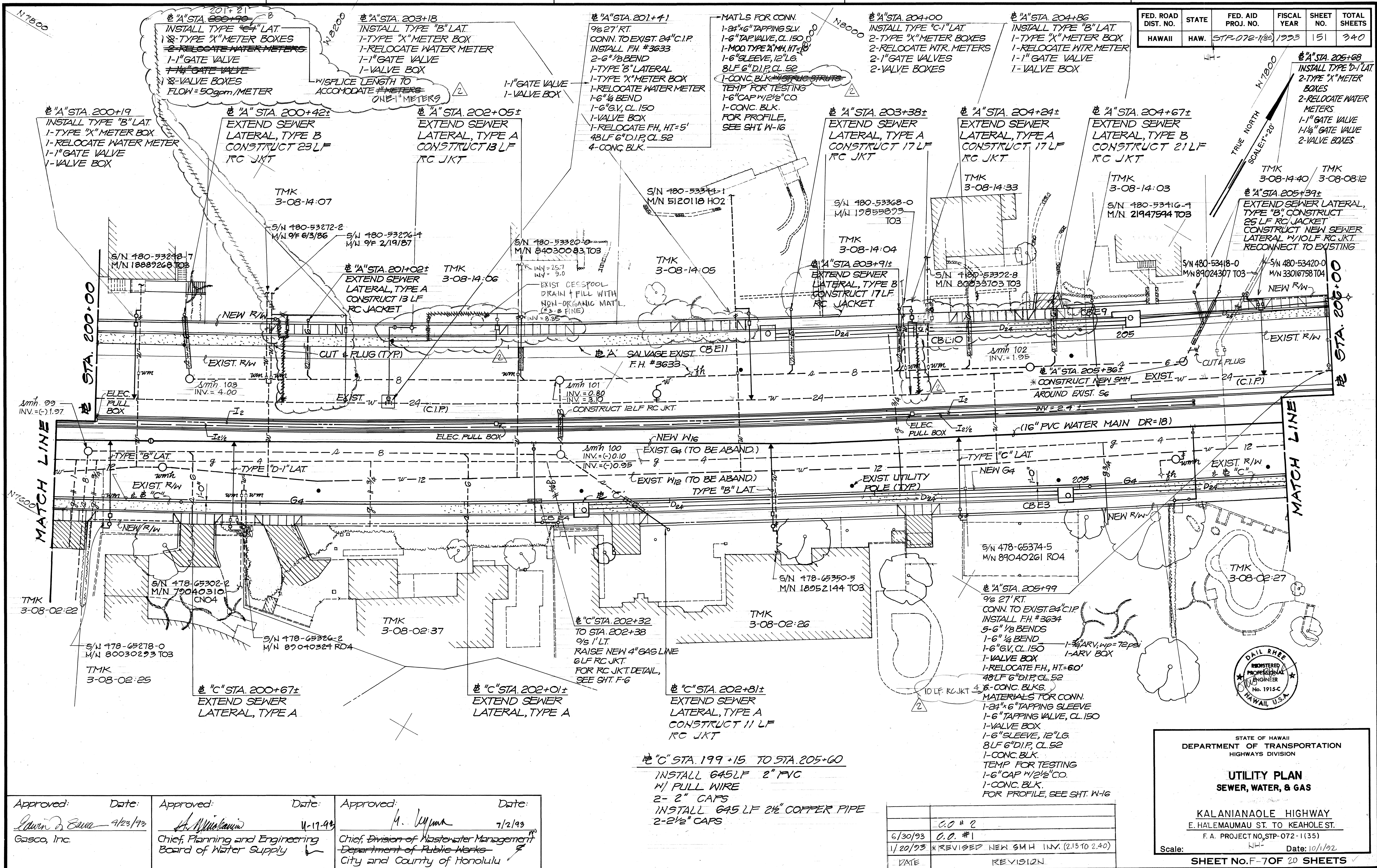
Scale: *[Blank]* Date: 10/1/92

SHEET No. P.C. OF 20 SHEETS

"AS-BUILT"

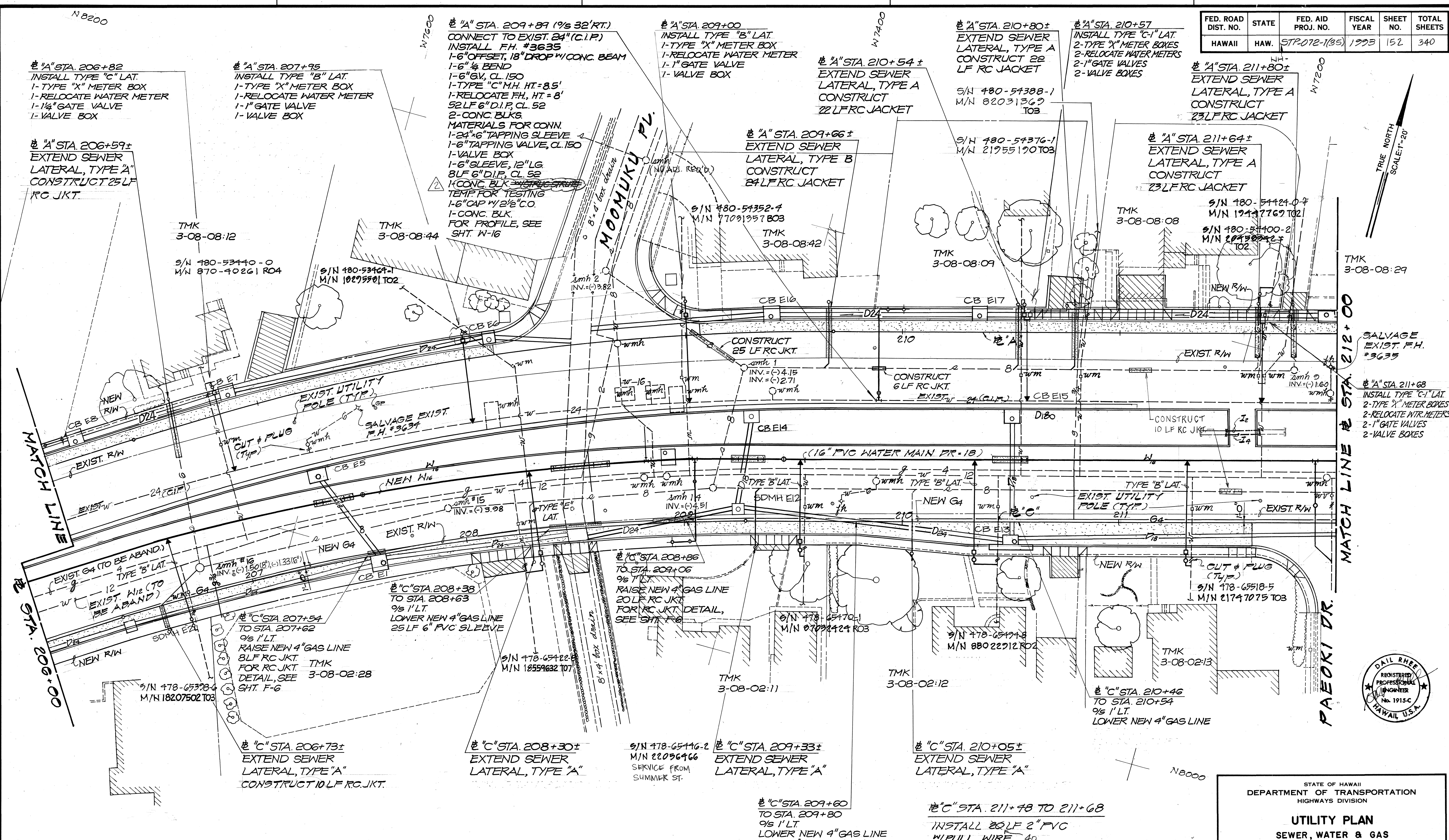
C.O. 150

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-072-1(35)	1993	151	340



C.O. ADD. 151

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-072-1(35)	1993	152	340



ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
NOTED BY	
CHECKED BY	
QUANTITIES BY	
NO.	

Approved: <i>[Signature]</i> Date: 11-23-93	Approved: <i>[Signature]</i> Date: 11-17-93	Approved: <i>[Signature]</i> Date: 7/2/93
Gasco, Inc.	Chief, Planning and Engineering Board of Water Supply	Chief, Division of Wastewater Management, Department of Public Works, City and County of Honolulu

DATE	REVISION
6/30/93	C.O.* 2
	C.O.* 1

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UTILITY PLAN
SEWER, WATER & GAS

KALANIANA'OLE HIGHWAY
E. HALEMAUMAU ST. TO KEAHOE ST.
F.A. PROJECT NO. STP-072-1(35)

Scale: 1"=40' Date: 10/1/92

SHEET NO. 152 OF 20 SHEETS

#A STA. 212+55
 96 32' RT.
 CONN. TO EXIST. 24" C.I.P.
 INSTALL NEW F.H.
 1-6" OFFSET, 18" DROP
 W/ CONC. BEAM
 1-6" 1/2 BEND
 1-6" G.V., CL. 150
 1-VALVE BOX
 1-F.H., HT. 4.5'
 53 LF 6" D.I.P., CL. 52
 2-CONC. BLKS.

MATERIALS FOR CONN.
 1-24" TAPPING SLEEVE
 1-6" TAPPING VALVE, CL. 150
 1-VALVE BOX
 1-6" SLEEVE, 12" LG.
 8 LF 6" D.I.P., CL. 52
 1-CONC. BLK. W/ STRUCT. STRUTS
 TEMP FOR TESTING
 1-6" CAP W/ 2" C.O.
 1-CONC. BLK.
 FOR PROFILE, SEE SHT. N-17

#A STA. 213+15±
 96 34' LT.
 RELOCATE EXIST. 92
 4-2" 1/8 BENDS
 25 LF 2" GAS PIPE

#A STA. 213+07± (96 30' LT.)
 24" WATER LINE LOWERING
 CONN. TO EXIST. 24" WATER
 24 LF 24" D.I. PIPE, CL. 52
 2-24" 1/8 BEND (BV#H)
 4-CONC. BLKS.
 MATERIALS FOR CONN.
 2-24" 1/8 BENDS (H)
 2-24" SLEEVES
 14 LF 24" D.I. PIPE, CL. 52
 TEMP FOR TESTING
 2-24" CAP W/ 6" C.O.
 2-CONC. BLKS.
 FOR PROFILE SEE SHT. N-16

#A STA. 214+12± (96 7.5' LT.)
 24" WATER LINE LOWERING
 CONN. TO EXIST. 24" WATER
 18 LF 24" D.I. PIPE, CL. 52
 2-24" 1/8 BEND (BV#H)
 4-CONC. BLKS.
 MATERIAL FOR CONN.
 2-24" 1/8 BENDS (H)
 2-24" SLEEVES
 16 LF 24" D.I. PIPE, CL. 52
 TEMP FOR TESTING
 2-24" CAP W/ 6" C.O.
 2-CONC. BLKS.
 FOR PROFILE SEE SHT. N-16

#A STA. 216+45
 INSTALL TYPE "D-1" LAT.
 2-TYPE "X" METER BOXES
 2-RELOCATE WTR. METERS
 2-1/2" GATE VALVES
 2-VALVE BOXES

#A STA. 216+91
 INSTALL TYPE "C-1" LAT.
 2-TYPE "X" METER BOXES
 2-RELOCATE WTR. METERS
 2-1" GATE VALVES
 2-VALVE BOXES

#A STA. 217+59±
 EXTEND SEWER
 LATERAL, TYPE A
 CONSTRUCT 25
 LF RC JACKET

#A STA. 217+89±
 EXTEND SEWER
 LATERAL, TYPE A
 CONSTRUCT 25
 LF RC JACKET

MATCH LINE @ STA. 212+00

MATCH LINE @ STA. 218+25

PAEOKI DR.

DATE	
SURVEY PLOTTED BY	
DRAWN BY	
CHECKED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

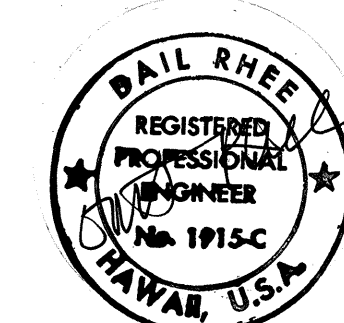
N8000

Approved: <i>Edwin D. Evans</i>	Date: 4/23/93	Approved: <i>H. Williams</i>	Date: 11-17-93	Approved: <i>G. Wynn</i>	Date: 7/2/93
Gasco, Inc.		Chief, Planning and Engineering Board of Water Supply		Chief, Division of Wastewater Management Department of Public Works City and County of Honolulu	

#C STA. 217+92
 INSTALL 100 LF 2" COPPER
 1-2" 1/2 BEND
 1-2" CAP
 #C STA. 217+85
 INSTALL 100 LF 1" PVC
 W/ PULL WIRE
 1-1" CAP

#C STA. 216+27
 TO STA. 216+33
 96 7' LT.
 RAISE NEW 4" GASLINE
 6 LF RC JKT.
 FOR RC JKT. DETAIL,
 SEE SHT. F-6

#A STA. 216+05
 96 31' RT.
 CONN. TO EXIST. 24" C.I.P.
 INSTALL F.H. #3636
 1-6" 1/2 BEND
 1-6" G.V., CL. 150
 1-VALVE BOX
 1-RELOCATE F.H., HT. 6.5'
 52 LF 6" D.I.P., CL. 52
 2-CONC. BLKS.
 MATERIALS FOR CONNECTION
 1-24" TAPPING SLEEVE
 1-6" TAPPING VALVE, CL. 150
 1-VALVE BOX
 1-6" SLEEVE, 12" LG.
 8 LF 6" D.I.P., CL. 52
 1-CONC. BLK. W/ STRUCT. STRUTS
 TEMP FOR TESTING
 1-6" CAP W/ 2" C.O.
 1-CONC. BLK.
 FOR PROFILE, SEE SHT. N-17

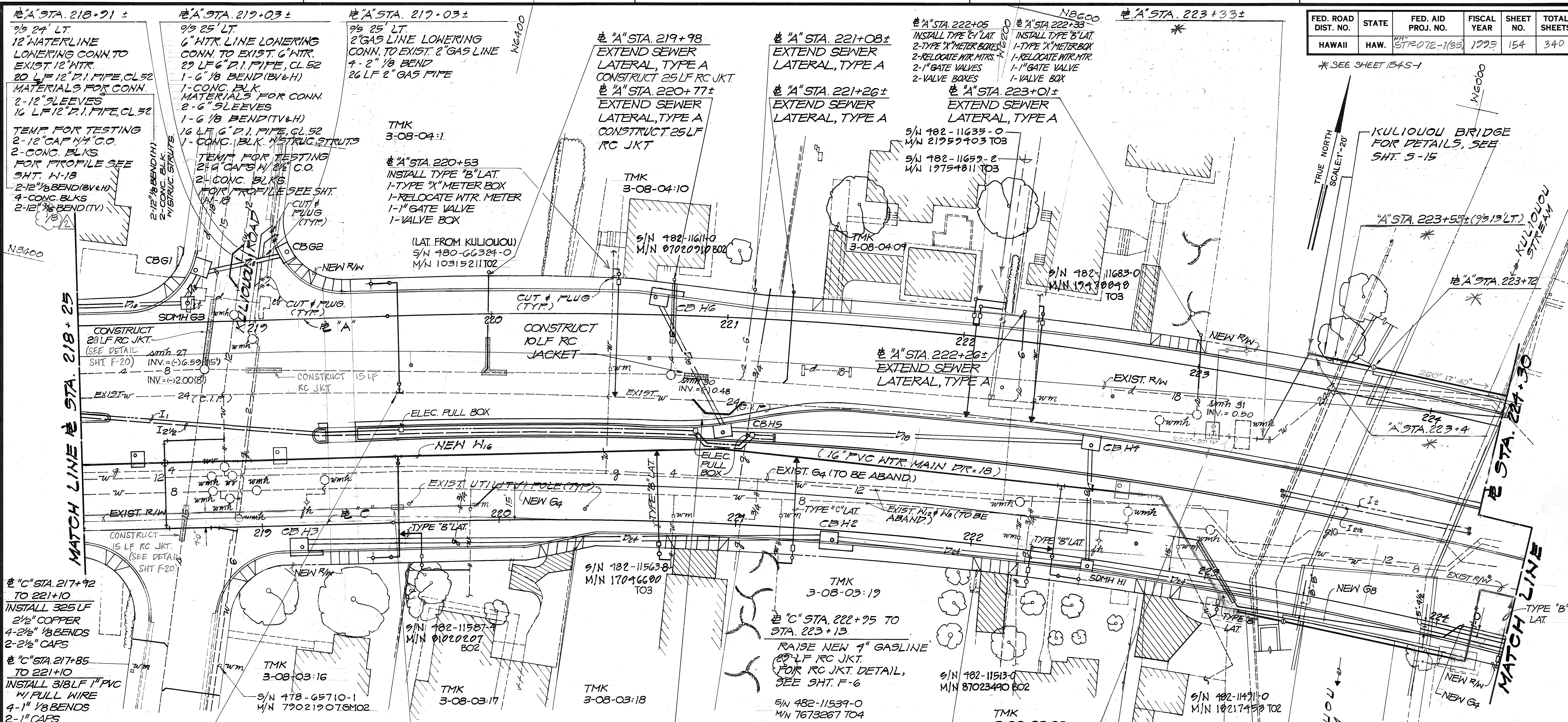


6/30/93	C.O. #2
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
UTILITY PLAN SEWER, WATER, & GAS	
KALANIANA'OLE HIGHWAY E. HALEMAUMAU ST. TO KEAHOE ST. F.A. PROJECT NO. STP-072-1 (35)	
Scale: NH	Date: 10/1/92
SHEET NO. 153 OF 20 SHEETS	

C.O. 153

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-072-1(35)	1993	154	340

*SEE SHEET 154S-1



MATCH LINE STA. 218+25
 STA. 218+21 ±
 2 1/2\"/>

STA. 219+03 ±
 2 1/2\"/>

STA. 219+03 ±
 2 1/2\"/>

STA. 219+98
 EXTEND SEWER
 LATERAL, TYPE A
 CONSTRUCT 25 LF RC JKT.
 STA. 220+77 ±
 EXTEND SEWER
 LATERAL, TYPE A
 CONSTRUCT 25 LF
 RC JKT

STA. 221+08 ±
 EXTEND SEWER
 LATERAL, TYPE A
 STA. 221+26 ±
 EXTEND SEWER
 LATERAL, TYPE A

STA. 222+05
 INSTALL TYPE 'C' LAT.
 2-TYPE 'X' METER BOXES
 2-RELOCATE WTR. MTR.
 2-1\"/>

STA. 222+33
 INSTALL TYPE 'B' LAT.
 1-TYPE 'X' METER BOX
 1-RELOCATE WTR. MTR.
 1-1\"/>

KULIOUOULU BRIDGE
 FOR DETAILS, SEE
 SHT. 5-15
 STA. 223+55 ± (9 1/2\"/>

STA. 217+92
 TO 221+10
 INSTALL 325 LF
 2 1/2\"/>

STA. 217+85
 TO 221+10
 INSTALL 318 LF 1\"/>

STA. 219+54
 TO STA. 219+60
 9 1/2\"/>

STA. 220+87 TO 221+07
 9 1/2\"/>

STA. 222+25 TO
 STA. 223+13
 RAISE NEW 4\"/>

STA. 223+10
 SEE SHT. 154S-1
 FOR REVISION

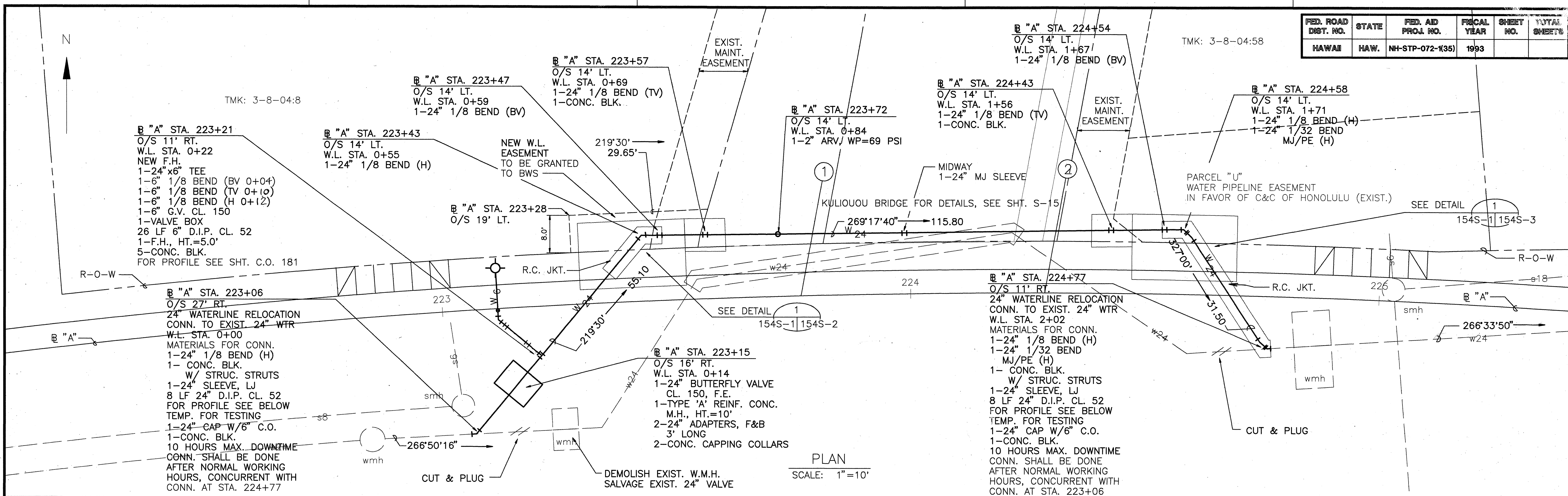
STA. 223+20 TO STA. 224+10
 INSTALL 90 LF 2\"/>

Approved: <i>David J. Sauer</i> 4/23/93	Approved: <i>H. M. ...</i> 11-17-93	Approved: <i>G. ...</i> 7/2/93
Gasco, Inc.	Chief, Planning and Engineering Board of Water Supply	Chief, Division of Wastewater Management Department of Public Works City and County of Honolulu

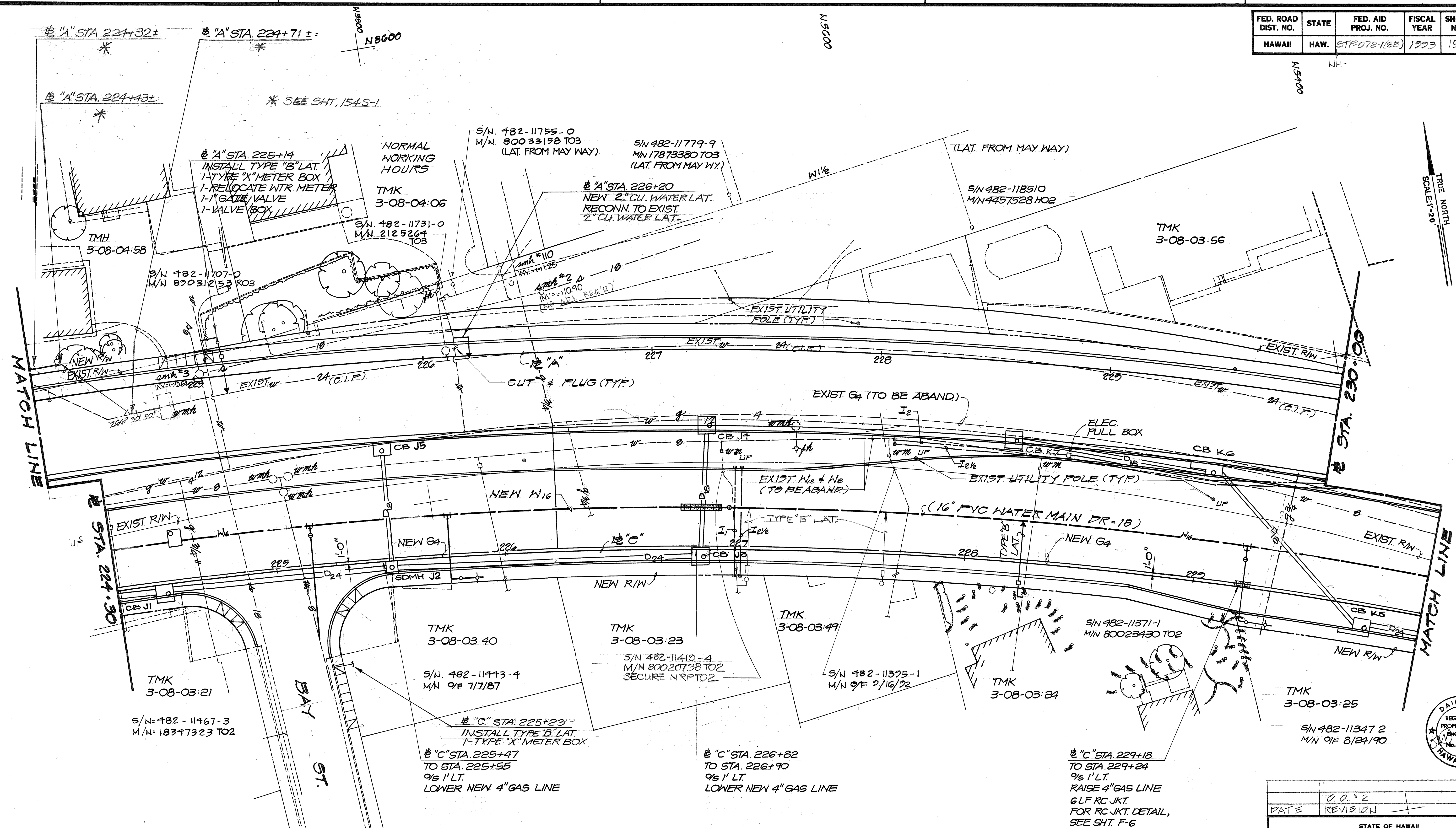
DATE	REVISION
6/30/93	0.0 #1
	0.0 #2

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
UTILITY PLAN
 SEWER, WATER & GAS
 KALANIANA'OLE HIGHWAY
 E. HALEMAUMAU ST. TO KEAHOE ST.
 F.A. PROJECT NO. STP-072-1 (35)
 Scale: *NH* Date: *10/1/92*
 SHEET No. *154* OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993		



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-072-1(35)	1993	155	340



SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	

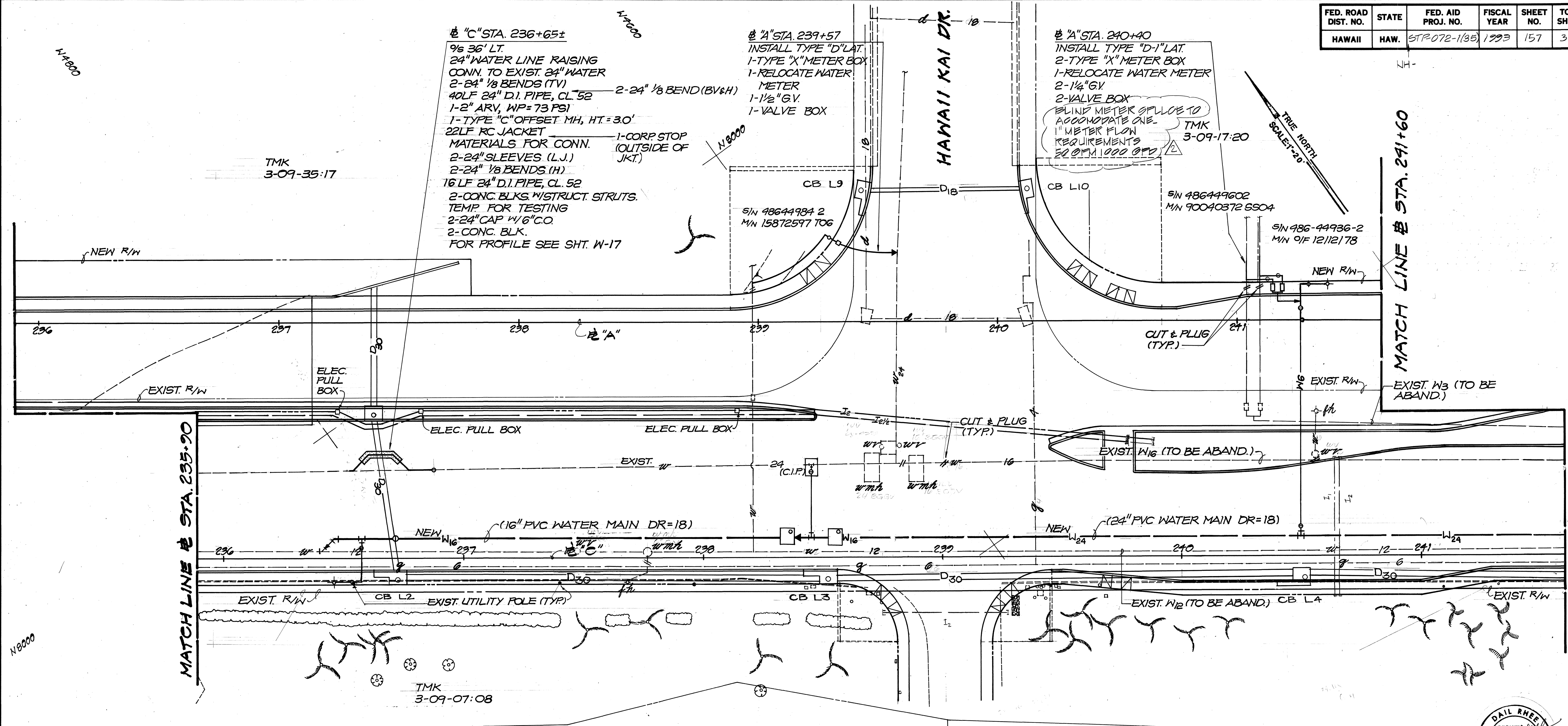
Approved: <i>Edwin B. Sauer</i>	Date: 4/23/93	Approved: <i>[Signature]</i>	Date: 4-17-93	Approved: <i>[Signature]</i>	Date: 7/2/93
Gasco, Inc.		Chief, Planning and Engineering Board of Water Supply		Chief, Division of Wastewater Management Department of Public Works City and County of Honolulu	

"C" STA. 227+00
 INSTALL 50 LF 1" PVC
 W/ PULL WIRE
 2 - 1" CAPS
 INSTALL 50 LF 2 1/2"
 COPPER PIPE
 2 - 2 1/2" CAPS

"C" STA. 227+55 TO STA. 231+85
 INSTALL 430 LF 2" PVC
 W/ PULL WIRE
 2 - 2" CAPS
 INSTALL 430 LF 2 1/2" COPPER PIPE
 2 - 2 1/2" CAPS

O.O. #2
 DATE REVISION
 STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
 UTILITY PLAN
 SEWER, WATER, & GAS
 KALANIANAʻOLE HIGHWAY
 E. HALEMAUAU ST. TO KEAHOLE ST.
 F.A. PROJECT NO. STP-072-1 (35)
 Scale: Date: 10/1/92
 SHEET No. 110 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-072-1(35)	1993	157	340



DATE	
DESIGNED BY	
TRACED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NO.	

"C" STA. 233+30 TO STA. 239+90
 INSTALL 600 LF 2" PVC
 W/ PULL WIRE 670
 4-2" 1/8 BEND
 2-2" CAP
 INSTALL 600 LF 2 1/2" COPPER PIPE
 2-2 1/2" CAP 670

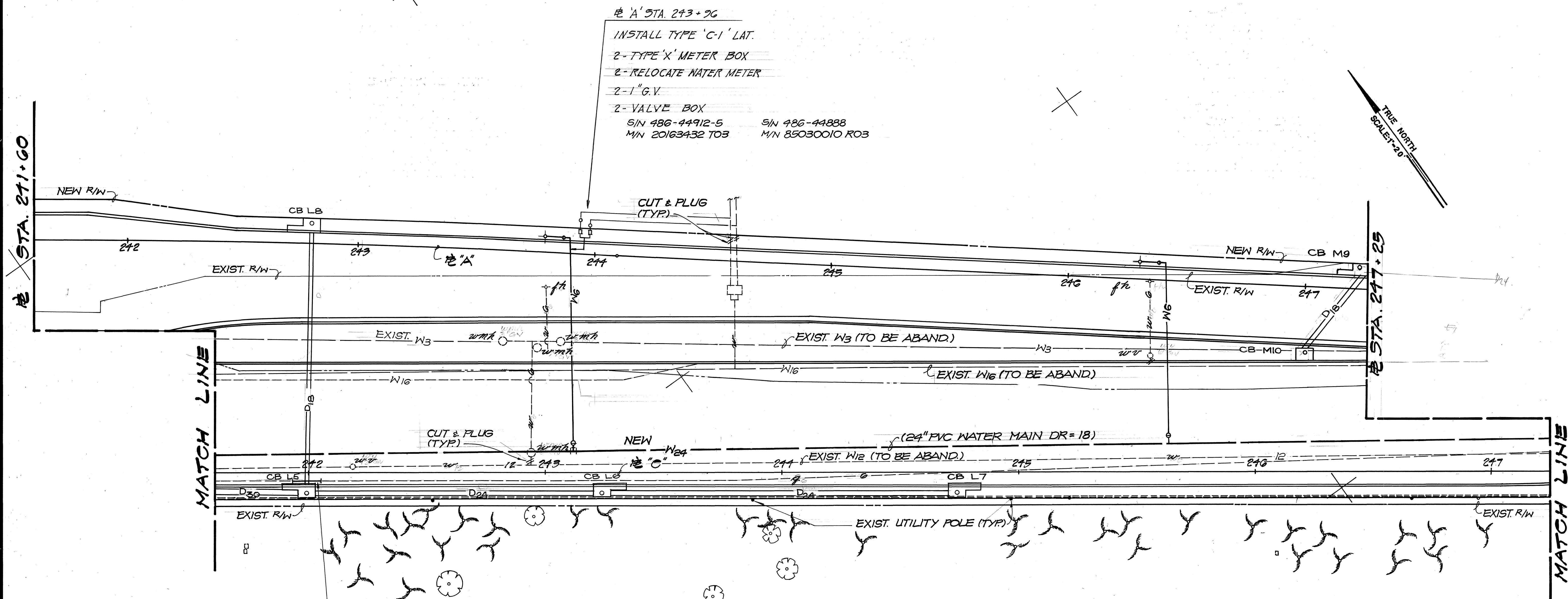
"C" STA. 238+75 TO STA. 239+27
 INSTALL 52 LF 2" COPPER PIPE
 2-2" CAP
 "C" STA 240+65
 INSTALL 60 LF 1" PVC WITH PULL WIRE
 2-1" CAP
 INSTALL 60 LF 2" COPPER PIPE
 2-2" CAP

Approved: <i>Edmund P. Sam</i> 4/23/93 Gasco, Inc.	Approved: <i>A. M. Williams</i> 11-17-93 Chief, Planning and Engineering Board of Water Supply	Approved: <i>H. Uyama</i> 7/2/93 Chief, Division of Wastewater Management Department of Public Works City and County of Honolulu
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DATE	REVISION
6/30/93	0.0 #1
	0.0 #2

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
 UTILITY PLAN
 SEWER, WATER, & GAS
 KALANIANA'OLE HIGHWAY
 E. HALEMAUMAU ST. TO KEAHOE ST.
 F.A. PROJECT NO. STP-072-1 (35)
 Scale: 1" = 10' Date: 10/1/92
 SHEET No. 157 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STR072-1(35)	1993	158	340



E 'A' STA. 243+96
 INSTALL TYPE 'C-1' LAT.
 2- TYPE 'X' METER BOX
 2- RELOCATE WATER METER
 2- 1" G.V.
 2- VALVE BOX
 S/N 486-44912-5 S/N 486-44888
 M/N 20163432 T03 M/N 85030010 R03

E "C" STA. 241+94 TO
 STA. 242+06
 9/5 3' RT.
 LOWER EXIST. 6" GAS LINE
 4- 6" 1/8 BEND
 12 LF 6" GAS PIPE

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

Approved: <i>Edwin D. Sawa</i> 4/23/93 Gasco, Inc.	Approved: <i>St. M. M. M.</i> 11-11-93 Chief, Planning and Engineering Board of Water Supply	Approved: <i>R. Lyons</i> 7/2/93 Chief, Division of Wastewater Management Department of Public Works City and County of Honolulu
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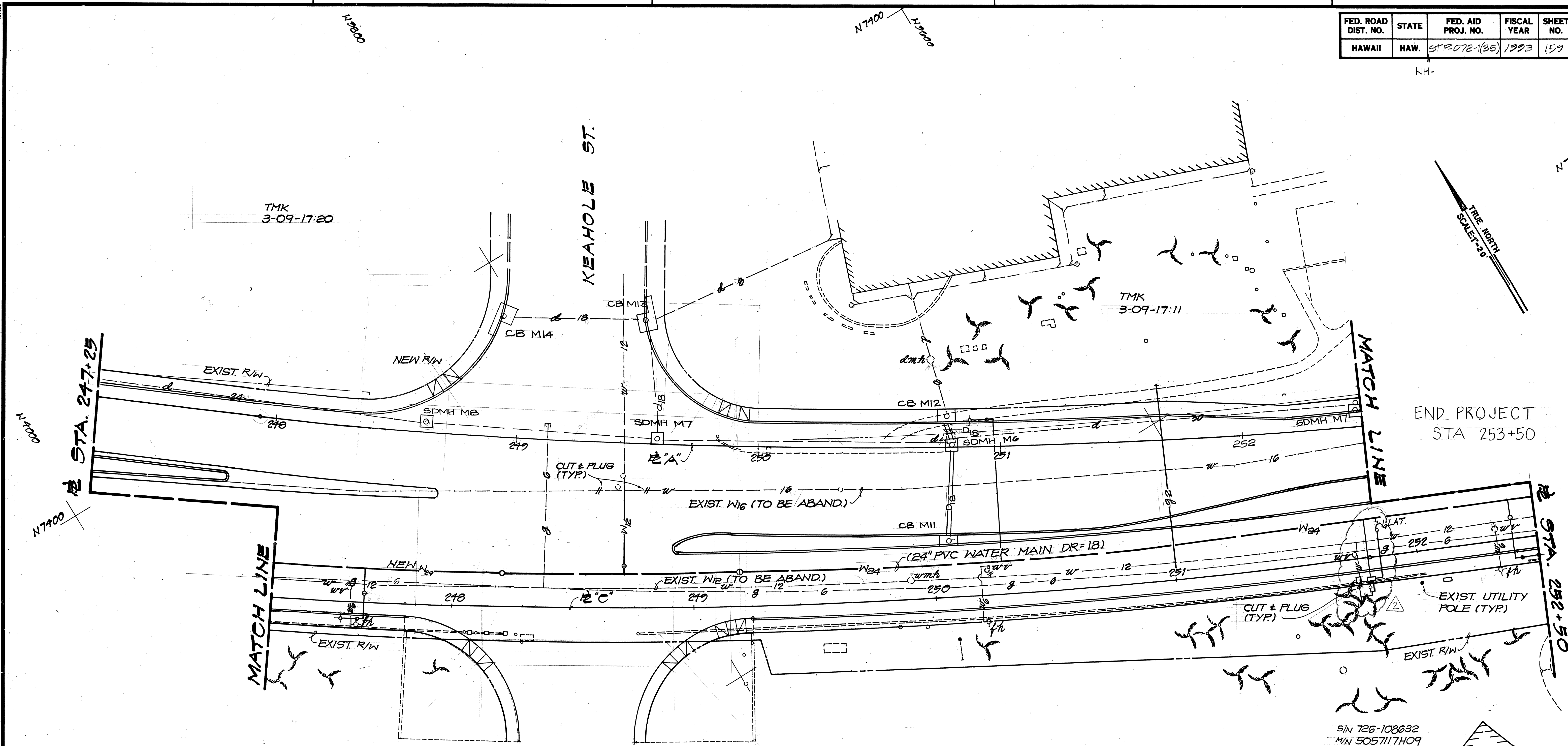
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

 UTILITY PLAN
 SEWER, WATER, & GAS

 KALANIANA'OLE HIGHWAY
 E. HALEMAUMAU ST. TO KEAHOE ST.
 F.A. PROJECT NO. STP-072-1 (35)
 Date: 10/1/92
 SHEET NO. 14 OF 20 SHEETS

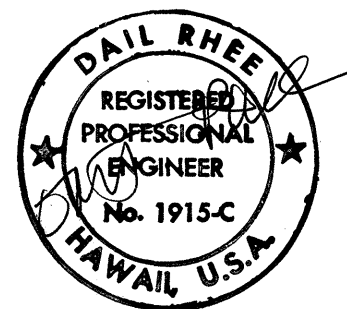
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-072-1(35)	1993	159	340

NH-



SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
CHECKED BY	
NOTE BOOK	
NO.	

Approved: <i>Edward D. Sauer</i> 4/23/93 Gasco, Inc.	Approved: <i>H. M. Kamae</i> 4-17-93 Chief, Planning and Engineering Board of Water Supply	Approved: <i>M. Uyama</i> 7/2/93 Chief, Division of Wastewater Management Department of Public Works City and County of Honolulu
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DATE	0.0 * 2
REVISION	
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
UTILITY PLAN SEWER, WATER, & GAS	
KALANIANA'OLE HIGHWAY E. HALEMAUMAU ST. TO KEAHOLE ST.	
F. A. PROJECT NO. STP-072-1 (35)	
Scale: NH-	Date: 10/1/92
SHEET NO. 159 OF 20 SHEETS	