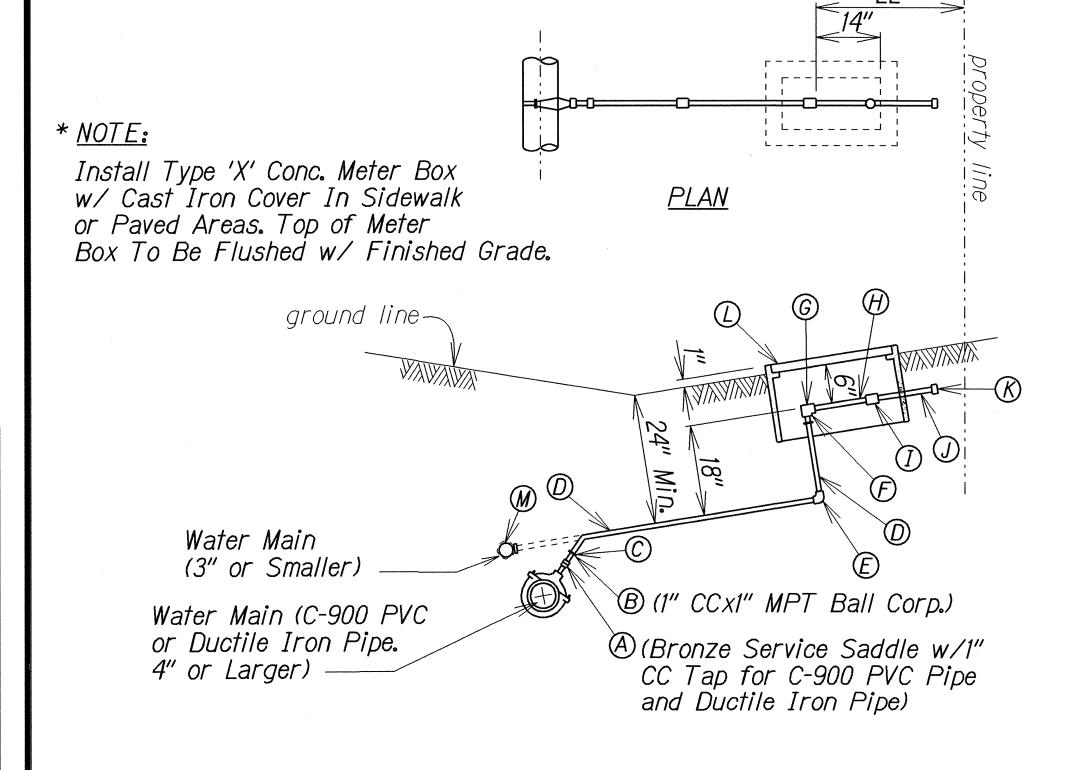
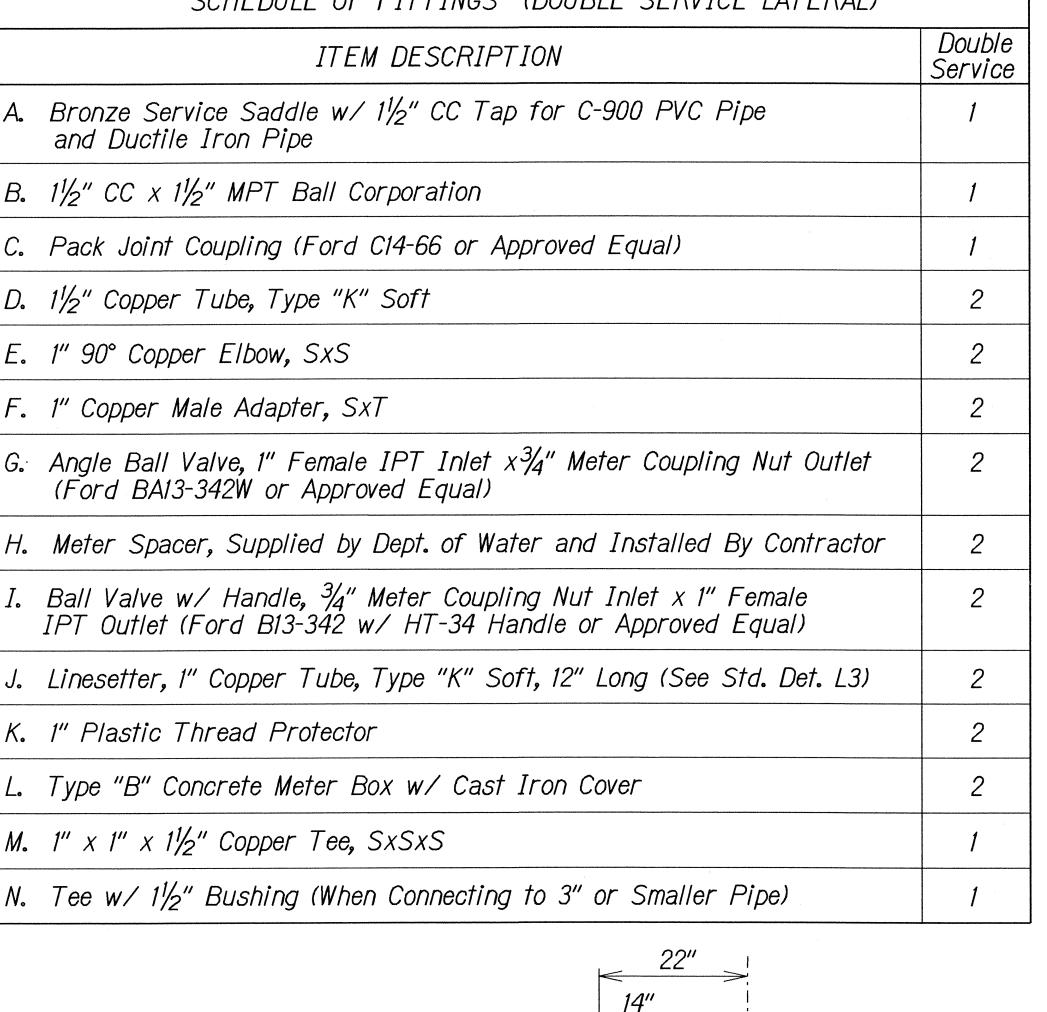
	SCHEDULE OF FITTINGS (SINGLE SERVICE LATERAL)		
	ITEM DESCRIPTION	Single Service	
A.	Bronze Service Saddle w/ 1" CC Tap for C-900 PVC Pipe and Ductile Iron Pipe	1	
B.	1" CC x 1" MPT Ball Corporation	1	
C.	Pack Joint Coupling (Ford C14-44 or Approved Equal)	1	
D.	1" Copper Tube, Type "K" Soft	1	
E.	1" 90° Copper Elbow, SxS	1	
F.	1" Copper Male Adapter, SxT	1	
G.	Angle Ball Valve, 1" Female IPT Inlet $x^3/4$ " Meter Coupling Nut Outlet (Ford BA13-342W or Approved Equal)	1	
H.	Meter Spacer, Supplied by Dept. of Water and Installed By Contractor	1	
I.	Ball Valve w/ Handle, ¾" Meter Coupling Nut Inlet x 1" Female IPT Outlet (Ford B13-342 w/ HT-34 Handle or Approved Equal)	1	
J.	Linesetter, 1" Copper Tube, Type "K" Soft, 12" Long (See Std. Det. L3)	1	
K.	1" Plastic Thread Protector	1	
· L.	Type "B" Concrete Meter Box w/ Cast Iron Cover	1	
M.	Tee w/ 1" Bushing (When Connecting to 3" or Smaller Pipe)	1	

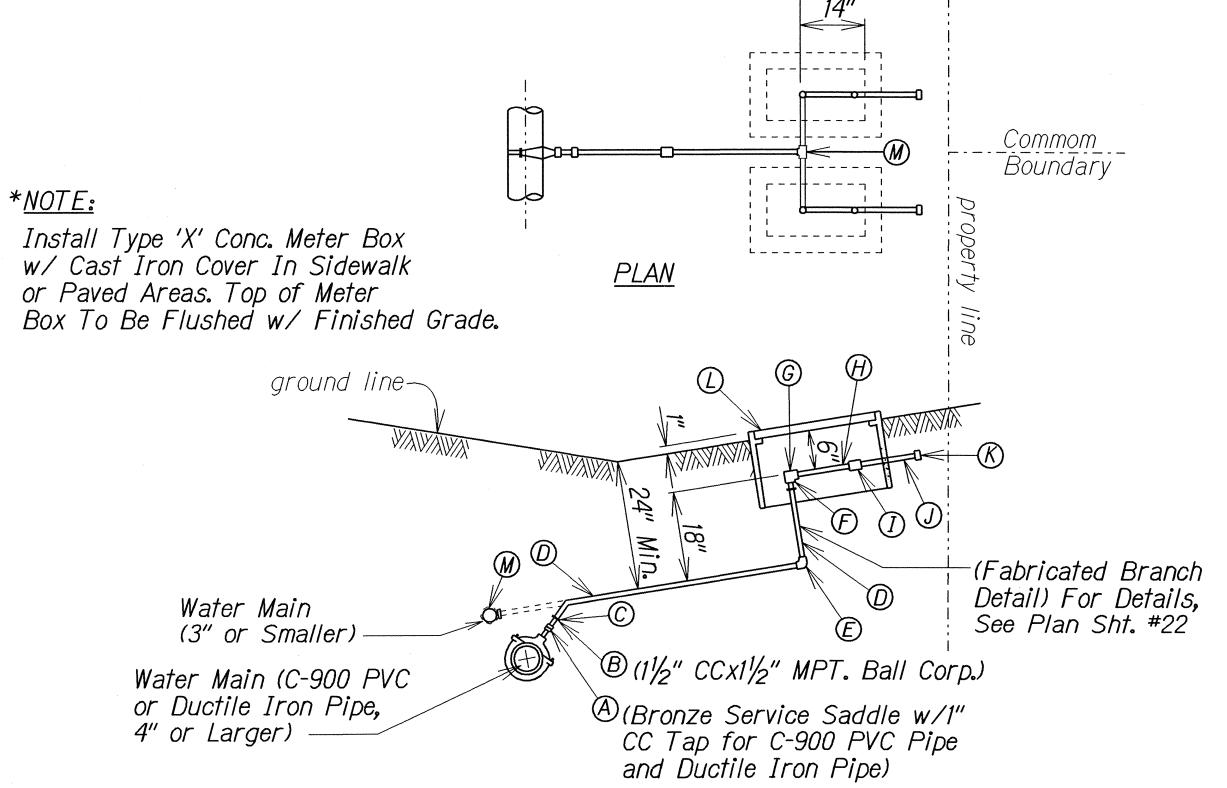


<u>PROFILE</u>

SINGLE SERVICE LATERAL N.T.S.

	SCHEDULE OF FITTINGS (DOUBLE SERVICE LATERAL)	
	ITEM DESCRIPTION	Double Service
A.	Bronze Service Saddle w/ 1½" CC Tap for C-900 PVC Pipe and Ductile Iron Pipe	1
B.	1½" CC x 1½" MPT Ball Corporation	1
C.	Pack Joint Coupling (Ford C14-66 or Approved Equal)	1
D.	1½" Copper Tube, Type "K" Soft	2
E.	1" 90° Copper Elbow, SxS	2
F.	1" Copper Male Adapter, SxT	2
G.	Angle Ball Valve, 1" Female IPT Inlet $x^3/4$ " Meter Coupling Nut Outlet (Ford BA13-342W or Approved Equal)	2
Н.	Meter Spacer, Supplied by Dept. of Water and Installed By Contractor	2
I.	Ball Valve w/ Handle, $\frac{3}{4}$ " Meter Coupling Nut Inlet x 1" Female IPT Outlet (Ford B13-342 w/ HT-34 Handle or Approved Equal)	2
J.	Linesetter, 1" Copper Tube, Type "K" Soft, 12" Long (See Std. Det. L3)	2
K.	1" Plastic Thread Protector	2
* L.	Type "B" Concrete Meter Box w/ Cast Iron Cover	2
M.	1" x 1" x 1½" Copper Tee, SxSxS	1
N.	Tee w/ 1½" Bushing (When Connecting to 3" or Smaller Pipe)	1





<u>PROFILE</u>

DOUBLE SERVICE LATERAL

APPROVED:

Manager & Chief Engineer
Department of Water

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

STANDARD WATER DETAILS

KUHIO HIGHWAY

Pedestrian Facilities and ADA Compliance at Various Locations

Federal-Aid Project No. CMAQ-056-1(47) Not to Scale Date: Mar. 2003

SHEET No. 1 OF 2

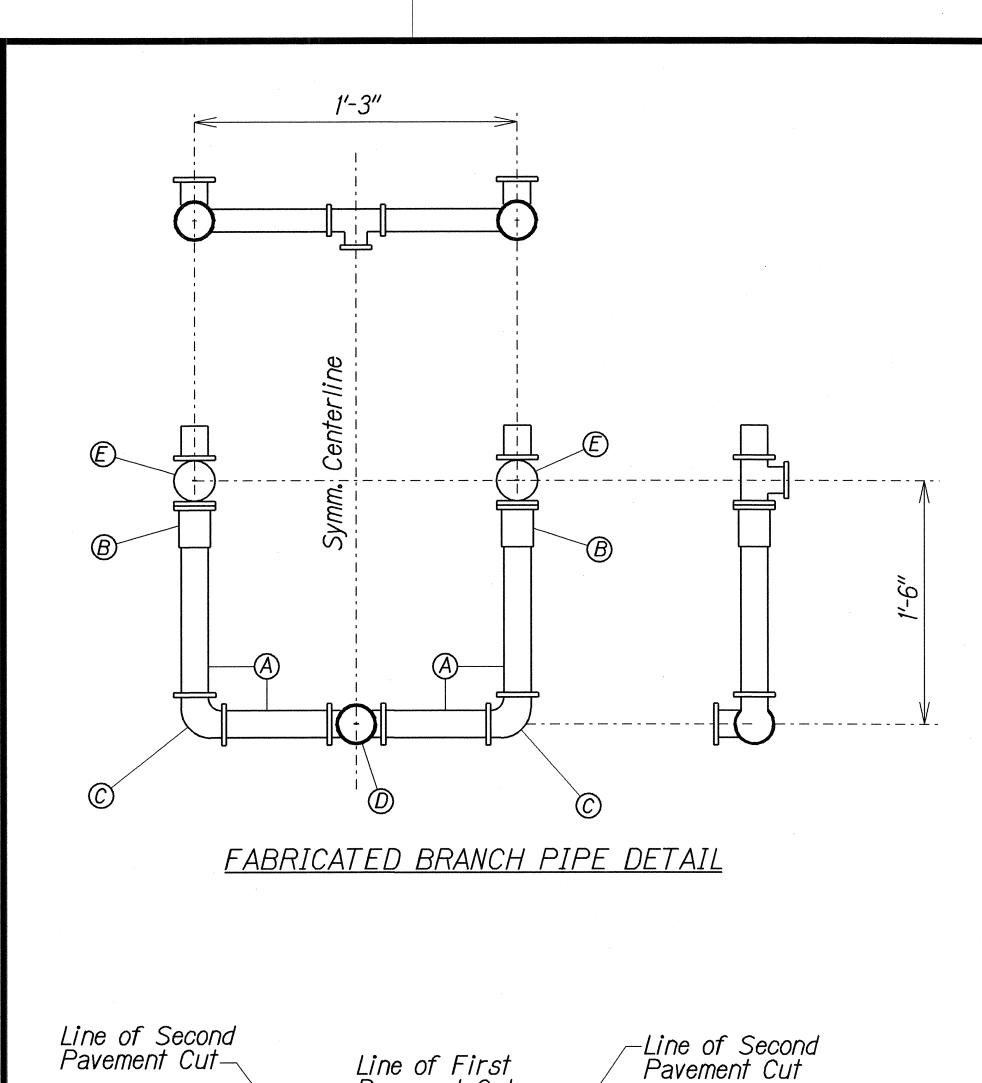
SHEETS

SURVEY PLOTTEI
DRAWN BY J. KE
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

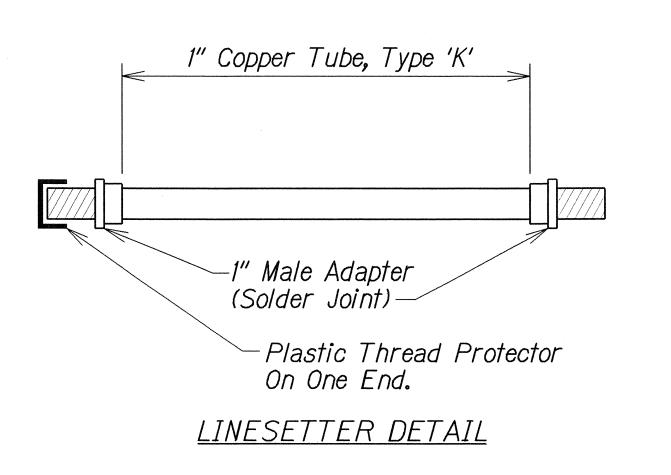
DD2-Highway Design Section

9/25/03

Date



PAVEMENT AREA



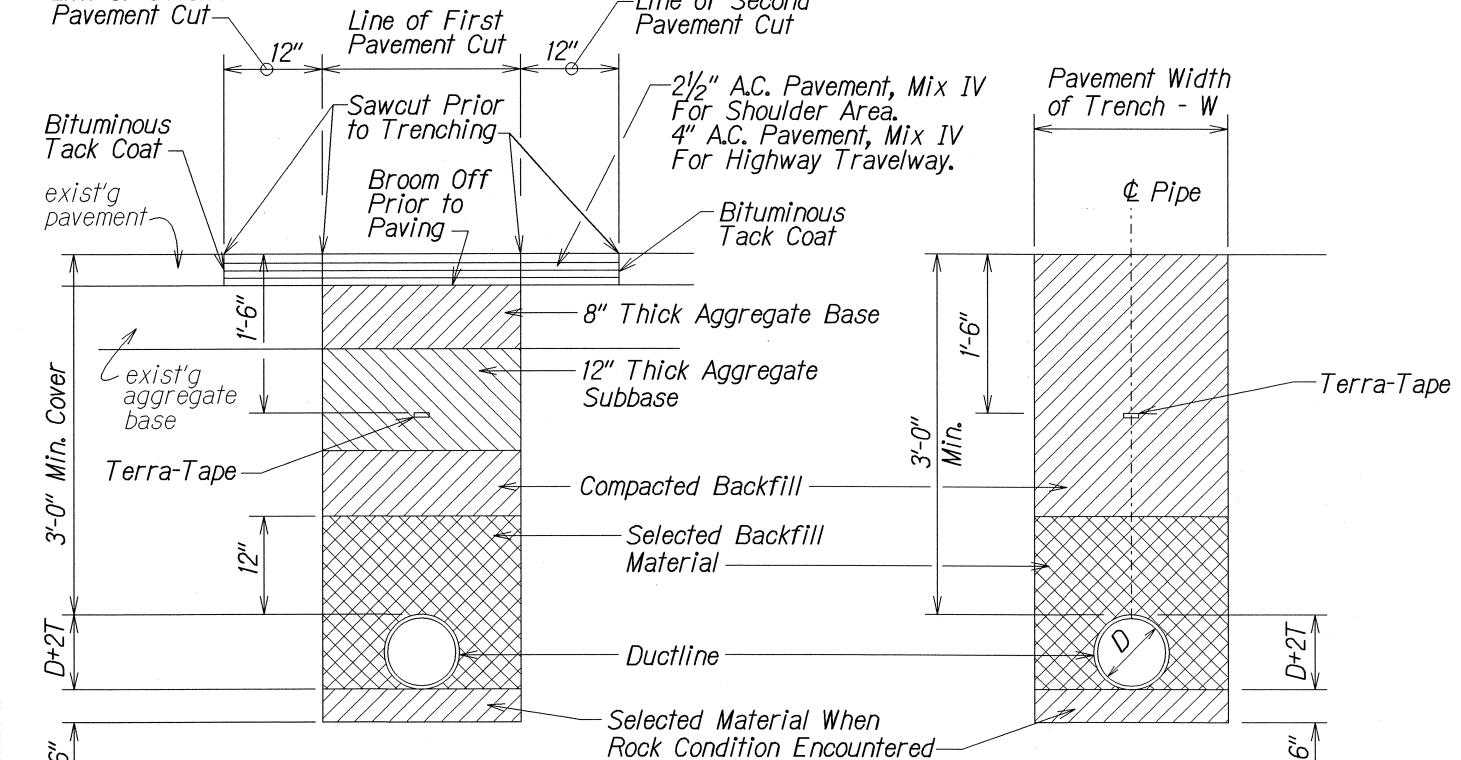
FABRICATED BRANCH PIPE AND LINESETTER DETAIL Not to Scale

UNPAVED AREA

FED. ROAD DIST. NO. FISCAL SHEET TOTAL PROJ. NO. HAW. | CMAQ-056-1(47) | 2003 22

SCHEDULE OF COPPER FITTINGS		
ITEM DESCRIPTION	Single Service	Double Service
A. 1" Copper Tube, Type 'K'	1	1
B. 1" Copper Male Adapter	1	2
C. 1" x 90° Elbow (Cast Solder)	1	2
D. 1" x 1" x 1½" Tee, (Cast Solder)	1	1
E. Angle Valve, 1" Female IPT, Inlet 3/4" Meter Coupling Nut Outlet (Ford BA13-342W or Approved Equal)	1	2

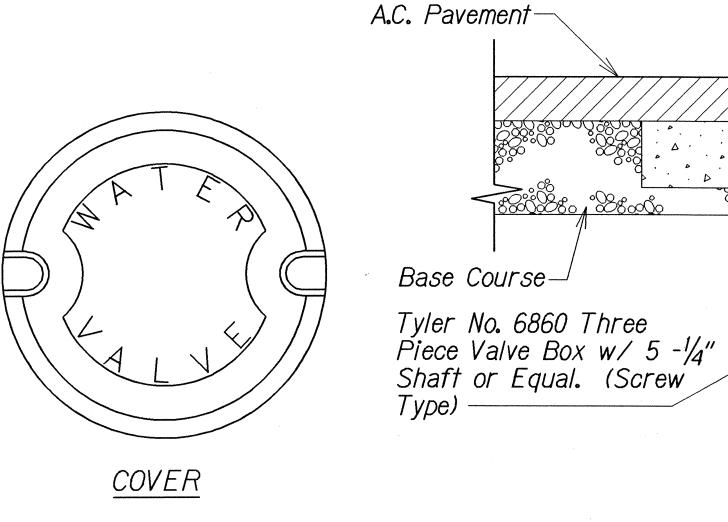
Pavement Area



TYPICAL TRENCH RESTORATION (FOR WORK WITHIN

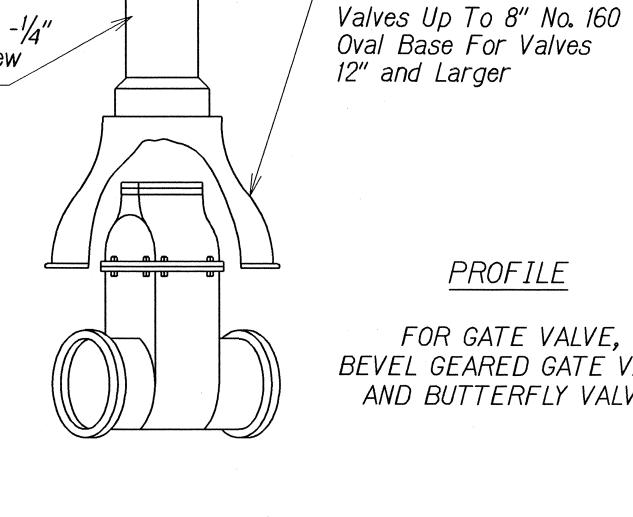
STATE HIGHWAY RIGHT-OF-WAY)

Not to Scale



GENERAL NOTES:

- 1. Pavement Area: 2" 0" Dia. or
- 2' 0" x 2' 0" Square x 4" 2. Non-pavement Area: 3' 0" Dia. or 3' - 0" x 3' - 0" Square x 4" Thick Conc. Settlement Slab.
- 3. Cover To Be Drop Lid Cover.



PROFILE

ground line

─No. 6 Round Base for

12" and Larger

Non-Pavement Area

FOR GATE VALVE, BEVEL GEARED GATE VALVE, AND BUTTERFLY VALVES

CAST IRON VALVE BOX DETAILS

Not to Scale

APPROVED:

4/25/03 Warke Dinateri Manager & Chief Engineer Date Department of Water

STATE OF HAWAII **DEPARTMENT OF TRANSPORTATION** HIGHWAYS DIVISION

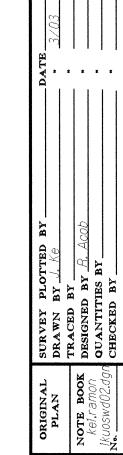
STANDARD WATER DETAILS

KUHIO HIGHWAY Pedestrian Facilities and ADA Compliance

at Various Locations

Federal-Aid Project No. CMAQ-056-1(47) Not to Scale Date: March 2003

SHEET No. 2 OF 2 SHEETS



DD2-Highway Design Section