



1 officially adopt the latest version of the Hawaii Water Standards (See Exhibit A – Hawaii  
2 Standard) given this document was used to plan out the development of the water system over a  
3 twenty year period; and

4  
5 **WHEREAS**, GWA also seeks approval of a provision to the adoption of the latest  
6 version of the Hawaii Water Standards that grants the GWA General Manager the authority to  
7 modify and amend any sections within the Hawaii Water Standards that are not applicable to  
8 water system GWA operates and maintains ; and

9  
10 **WHEREAS**, GWA recognizes having water standards of its own is an appropriate  
11 document to have and as such GWA shall work to develop a draft “GWA Water Standards” and  
12 will provide the proposed Standards to the CCU on or before September 30, 2016, after which  
13 the proposed “GWA Water Standards” shall undergo appropriate reviews and approval to  
14 effectuate the “GWA Water Standards”; and

15  
16 **NOW BE IT THEREFORE RESOLVED**, the Consolidated Commission on Utilities  
17 does hereby approve the following:

- 18  
19 1. The recitals set forth above hereby constitute the findings of the CCU.  
20 2. The CCU approves the adoption of the latest version of the Hawaii Water  
21 Standard (See Exhibit A – Hawaii Standard) to be used by GWA for purposes of  
22 standardizing water infrastructure requirements and best practices for water utility  
23 development and improvements.  
24 3. The CCU further grants the GWA General Manager the authority to modify and  
25 amend any sections within the Hawaii Water Standards that are not applicable to  
26 water system GWA operates and maintains

27  
28 **RESOLVED**, that the Chairman certified and the Board Secretary attests to the adoption  
29 of this Resolution.

30 //

31 //

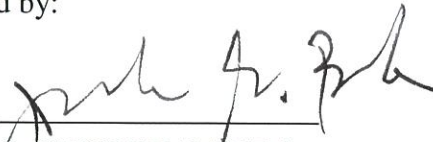
1 **DULY AND REGULARLY ADOPTED**, this 27<sup>th</sup> day of October, 2015

2  
3 Certified by:

4   
5 \_\_\_\_\_

6 **JOSEPH T. DUENAS**  
7 Chairperson

Attested by:

8   
9 \_\_\_\_\_

10 **J. GEORGE BAMBA**  
11 Secretary

12 I, J. George Bamba, Board Secretary of the Consolidated Commission on Utilities as  
13 evidenced by my signature above do hereby certify as follows:

14 The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular  
15 meeting by the members of the Guam Consolidated Commission on Utilities, duly and  
16 legally held at a place properly noticed and advertised at which meeting a quorum was  
17 present and the members who were present voted as follows:

18 AYES:

19 4

20 NAYS:

21 0

22 ABSTENTIONS:

23 0

24 ABSENT:

25 1



26 ///

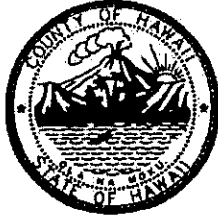
27 ///

28 ///

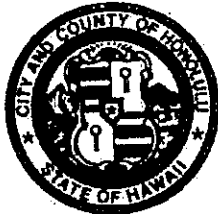
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# **WATER SYSTEM STANDARDS**



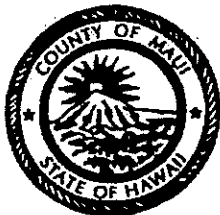
**DEPARTMENT OF WATER SUPPLY  
COUNTY OF HAWAII**



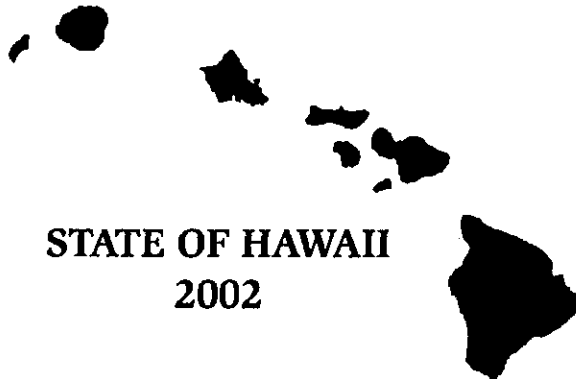
**BOARD OF WATER SUPPLY  
CITY AND COUNTY OF HONOLULU**



**DEPARTMENT OF WATER  
COUNTY OF KAUAI**



**DEPARTMENT OF WATER SUPPLY  
COUNTY OF MAUI**



**STATE OF HAWAII  
2002**

# WATER SYSTEM STANDARDS

PLANNING

MATERIALS

CONSTRUCTION

APPROVED MATERIAL LIST AND  
STANDARD DETAILS



MILTON D. PAVAO  
MANAGER  
DEPARTMENT OF WATER SUPPLY  
COUNTY OF HAWAII



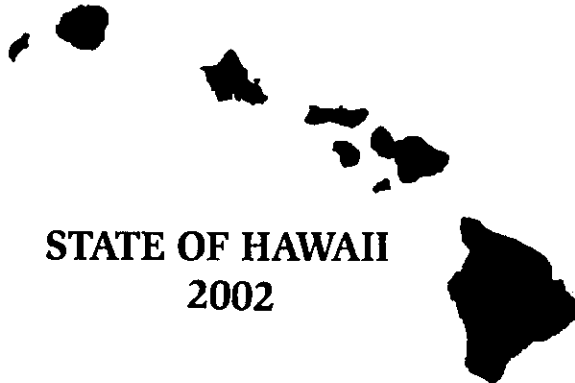
ERNEST Y.W. LAU  
MANAGER AND CHIEF ENGINEER  
DEPARTMENT OF WATER  
COUNTY OF KAUAI



CLIFFORD S. JAMILE  
MANAGER AND CHIEF ENGINEER  
BOARD OF WATER SUPPLY  
CITY & COUNTY OF HONOLULU



DAVID CRADDICK  
DIRECTOR  
DEPARTMENT OF WATER SUPPLY  
COUNTY OF MAUI



STATE OF HAWAII  
2002

## Amendments to the 2002 Water System Standards

<b>Description</b>	<b>WSS Section Modified</b>	<b>Approval Date</b>
Plastic Pipe	Division 200, Section 204 Plastic Pipe; Division 300, Section 302 Water Mains and Appurtenances, Sub-sections 302.14 Plastic Pipe & 302.15 Fittings and Specials	4/23/2015
Water Main Clearances	Division 100, Section 102 Mains, Sub-section 102.01 Location	4/23/2015
3/4" Meter Splice Length	Division 400, Section 403 Standard Details	12/9/2014
Approved Material <i>Christy's</i>	Division 400, Section 402, Sub-section I Pipes and Hydrants	9/19/2014
Approved Material <i>Clow Valve Company</i>	Division 400, Section 402, Sub-section IV Fire Hydrants	6/20/2014
Brass Products - Lead Free	Division 200, Section 211 Brass Products & Division 400, Section 402, Sub-section III Service Laterals, Fittings and Appurtenances	10/22/2013
Approved Material <i>Jensen Precast</i>	Division 400, Section 402, Sub-section III Service Laterals, Fittings and Appurtenances	1/4/2013
Rescinding Approval for Polyethylene (PE) Pipe	Division 200, Section 208 - Service Laterals and Appurtenances, 208.03 Plastic Tubing	12/14/2012
Brass Products	Division 200, Section 211 Brass Products & Division 400, Section 402, Sub-section III Service Laterals, Fittings and Appurtenances	6/5/2012
Approved Material <i>Aarmorcast</i>	Division 400, Section 402, Sub-section III Service Laterals, Fittings and Appurtenances	5/14/2012
Approved Material <i>Romac</i>	Division 400, Section 402 Sub-section I Pipes and Appurtenances	11/9/2011
Approved Material <i>IPEX</i>	Division 400, Section 402 Sub-section I Pipes and Appurtenances	9/14/2011
Rescinding Approval for Concrete Cylinder Pipe	Division 200, Section 203 Concrete Cylinder Pipe and Fittings	7/15/2011
Rescinding Approved Material <i>Royal Pipe Systems</i>	Division 400, Section 402 Sub-Section I Pipes and Appurtenances	4/29/2011
Approved Material <i>METCO</i>	Division 400, Section 402 Sub-section I Pipes and Appurtenances	11/4/2010
Approved Material <i>Advance products and Systems</i>	Division 400, Section 402 Sub-section I Pipes and Appurtenances	5/6/2010

Approved Material <i>Garlock</i>	Division 400, Section 402 Sub-section I Pipes and Appurtenances	1/19/2010
Approved Material <i>North American Pipe Corporation</i>	Division 400, Section 402 Sub-section I Pipes and Appurtenances	11/10/2009
Approved Material <i>Multi Fittings</i>	Division 400, Section 402 Sub-section I Pipes and Appurtenances	10/27/2009
Approved Material <i>Diamond Plastics</i>	Division 400, Section 402 Sub-section I Pipes and Appurtenances	8/14/2009
FM Meter & Box Standard Details	Division 400, Section 403 Standard Details	5/18/2009
Approved Material <i>Polytubes</i>	Division 400, Section 402, Subsection III Service Laterals, Fittings and Appurtenances	2/24/2009
Minimum Utility Depth	Division 100, Section 102 Mains, Sub-section 102.03 Cover & Division 400, Section 403 Standard Details	12/31/2008
Approved Material <i>American R/D</i>	Division 400, Section 402 Sub-section II Valves and Appurtenances	12/18/2008
Approved Material <i>Aarmorcast</i>	Division 400, Section 402, Sub-section III Service Laterals, Fittings and Appurtenances	12/4/2008 amended 5/18/2012
Distance between main valves	Division 100, Section 103 Sub-section 103.01 Location, Type, Working Pressure	10/21/2008
Nuts and bolts for flanged joints and fire hydrant break-off bolts	Division 200, Section 202.04 Flanged Joint and Section 206.1 General	3/18/2008
Approved Material <i>Sigma Corporation</i>	Division 400, Section 402 Sub-section I Pipes and Appurtenances	10/31/2007
Approved Material <i>Star Pipe Products, Inc.</i>	Division 400, Section 402 Sub-section I Pipes and Appurtenances	5/4/2007
Electronic Markers	New requirement	8/25/2006
Approved Material <i>Pratt &amp; Lambert</i>	Division 400, Section 402 Sub-section V Paints and Coatings	1/27/2004
Cathodic protection	Division 500, Section 1.2 (Part 2), Table 3	10/15/2003
Approved Material <i>Tripac Fasteners &amp; NSS Industries</i>	Division 400, Section 402 Sub-section I Pipes and Appurtenances	8/12/2003
Nuts and bolts for mechanical joints	Division 200, Section 202.02 Mechanical Joint	7/22/2003
Approved Material <i>Romac</i>	Division 400, Section 402 Sub-section I Pipes and Appurtenances	6/20/2003
Approved Material <i>Sherwin Williams</i>	Division 400, Section 402 Sub-section V Paints and Coatings	5/23/2003

Rescinded 4/29/2011 <del>Approved Material</del> <del>Royal Pipe Systems</del>	Division 400, Section 402 Sub-section I Pipes and Appurtenances	5/19/2003
Approved Material <i>FSC Coatings</i>	Division 400, Section 402 Sub-section V Paints and Coatings	5/12/2003
Dis-approved Material <i>Powerseal</i>	Division 400, Section 402 Sub-section I Pipes and Appurtenances	3/24/2003
Approved Material <i>James Jones</i>	Division 400, Section 402 Sub-section III Service Laterals, Fittings and Appurtenances	11/27/2002
Approved Materials for Globe Valves	Division 400, Section 402 Sub-section II Valves and Appurtenances	11/22/2002
Approved Material <i>PPG Industries</i>	Division 400, Section 402 Sub-section V Paints and Coatings	7/11/2002