



Coachella Valley Water District  
Engineering Department

# Development Design Manual

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**DDM-U 10-01      Manual Update**  
**Subject:            Technical Changes**

Reference:    *Development Design Manual, Table of Contents, Section 1- General, Section 6 - Sanitation, Section 8 - Stormwater, Section 9 – Non-Potable, and Appendix A, B, F, K, and J*

Effective Date: March 19, 2010

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## **DEVELOPMENT DESIGN MANUAL UPDATES**

Development Design Manual Updates (DDM-U) are utilized to provide timely updates regarding DDM policies, procedures and design criteria. DDM-U are numbered according to calendar year and the order in which released.

### **DDM-U 10-01**

#### **PURPOSE**

The purpose of this DDM-U 10-01 is to make technical changes to various chapters in the *Development Design Manual (DDM)*. Other minor administrative changes have been made as well.

#### **USER-FRIENDLY FEATURES**

- The entire revised Development Design Manual is available at the Coachella Valley Water District (CVWD) Home Page on the Internet at: <http://www.cvwd.org/>. Under “Business Center” select “*Development Design Manual.*”

- To receive an electronic notification when new DDM-Us have been posted on the CVWD Web site, please subscribe to the DDM list server at:  
<http://www.cvwd.org/business/ddm.php>

SUMMARY OF CHANGES

<b>DDM Item</b>	<b>Change</b>
Table of Contents	Revised Table of Contents to reflect the changes made.
CVWD Contact List	Revised contacts.
Section 1 – General Information and Development Project Review & Approval Process	Corrected grammatical errors and added Improvement District 41 & 53 to Section 1.4.4 Annexations
Figure 1 – Flow Chart	Revised reference of “BOR” to “USBR.”  Minor revisions were made to section reference numbers.
Section 3.2 pages 3-1, 2	First paragraph added “....and/or map book and pages....”  Third paragraph corrected, “Reconveyence” to “Reconveyance”, “Plot” to “Plat”, added “....both Exhibits to be....”, and added “and are subject to the CVWD Standards for Legal Descriptions and Plats.”
Section 3.3 page 3-2	Second paragraph added “.... and/or map book and page....”.  Fourth paragraph corrected “plot” to “plat”, added “....both Exhibits to be....” and added “....and are subject to the CVWD Standards for Legal Descriptions and Plats.”
Section 3.4.2 page 3-3	First paragraph added “...and USBR....”  Under “Interference Examples” second bullet changed reference from “....CVWD....” to “....CVWD/USBR....”  Under “Non-Interference Examples” second bullet changed reference from “....CVWD....” to “....CVWD/USBR....”
Section 3.5.1 page 3-5	Second paragraph deleted “....Construction Encroachment Permit (Permanent and Construction)....” and inserted “....NIRL (See 3.4.2)....”  Third paragraph replaced “....Encroachment Permit” with the acronym “....EP....”
Section 3.5.2.3 page 3-6	5 <sup>th</sup> bullet replaced “Applicant enters into USBR Interim Agreement (Notice To Proceed)” with “Applicant executes a USBR Relocation Agreement/Grant of Easement”
Section 3.6.2	Replaced 4 <sup>th</sup> bullet with “Provide PTR and legal description and plat

<p>pages 3-7,8</p>	<p><i>(Exhibits A &amp; B, both Exhibits to be prepared by a CA Licensed Surveyor and are subject to the CVWD Standards for Legal Descriptions and Plats) for easement to be Quitclaimed. Examples of these documents are located in Appendix F.</i></p> <p>7<sup>th</sup> bullet added, “....See Section 3.7 for CVWD Compensation For ROW.”</p>
<p>Section 3.6.3 page 3-8</p>	<p>Replaced 2<sup>nd</sup> bullet with “Once mylars are approved by CVWD, submit written request along with PTR and legal description and plat (Exhibits A &amp; B, both Exhibits to be prepared by a CA Licensed Surveyor and are subject to the CVWD Standards for Legal Descriptions and Plats) for the new easement and easement to be Quitclaimed. Examples of these documents are located in Appendix F.”</p> <p>Inserted after 5<sup>th</sup> bullet as 6<sup>th</sup> bullet “Applicant executes a Grant of Easement and obtains a Subordination Agreement, if applicable.”</p> <p>Minor revisions to remaining bullets.</p>
<p>Section 3.7 page 3-8, 9</p>	<p>Minor revisions to bullet 1. “Sale of CVWD’s Fee Title Land”</p> <p>Bullet to 2. “Leasing of CVWD Fee Title Land” added new sub-bullet “Dog Park \$4,000/year (0.50 acres)”</p>
<p>Section 6.6.6 page 6-10</p>	<p>Under “Grease Interceptors” updated section and clarified CVWD’s responsibilities in plan review and approval of Grease Interceptors.</p>
<p>Section 6.6.7 page 6-10</p>	<p>Under “Oil/Sand Interceptors” updated section and clarified CVWD’s responsibilities in plan review and approval of Oil/Sand Interceptors.</p>
<p>Section 6.6.7.1 page 6-10</p>	<p>New section added for “Lint Interceptors.”</p>
<p>Section 8.1.3 page 8-2</p>	<p>Minor revisions.</p>
<p>Section 8.4 page 8-5</p>	<p>Added in 1<sup>st</sup> paragraph “....or that may impact....”</p>
<p>Section 8.4.3 page 8-6, 7</p>	<p>Added in 1<sup>st</sup> paragraph reference to “Project” or “Projects”</p> <p>First paragraph under “Bridge and/or Low Flow Crossings of CVWD stormwater facilities” added “....and no increase of upstream water levels. CVWD may relax the “no rise” standard for projects with a substantial upstream freeboard.”</p> <p>Second paragraph under “Bridge and/or Low Flow Crossings of CVWD stormwater facilities” added “....hydraulic conditions and....” and removed “....and other hydraulic parameters....”</p>

<p>Section 8.5.3 page 8-9</p>	<p>Revised 1<sup>st</sup> paragraph “<i>Flood Hazard Identification</i>” in description of following section.</p> <p>Revised 1<sup>st</sup> &amp; 2<sup>nd</sup> paragraphs under “<i>Riverine Hazard Studies</i>” to further explain flood hazard assessment.</p> <p>Moved section under “<i>Alluvial Fan and Other Hazard Studies</i>” and mirror revisions to the topic of “<i>Alluvial Fan and Other Hazard Studies</i>” from section 8.5.4 to 8.5.3.</p> <p>Added new paragraph describing “<i>Stage 3</i>” analysis.</p> <p>Added new paragraph “<i>Coastal or Lakeshore Hazard Studies</i>”.</p>
<p>Section 8.5.4 page 8-10</p>	<p>Revised section number from 8.5.5 to 8.5.4 and made minor revisions under “<i>Hydrologic Analysis</i>”.</p>
<p>Section 8.5.5 page 8-10, 11 and 12</p>	<p>Revised section number and heading from “<i>8.5.6 Hydraulic Analysis Standards</i>” to “<i>8.5.5 Hydraulic Analysis</i>”.</p> <p>Minor changes to 1<sup>st</sup> bullet on pg 8-11.</p> <p>Added to 5<sup>th</sup> bullet on pg 8-11 “<i>....resulting from flows crossing the toe of an alluvial fan or from the valley floor....</i>” and “<i>Flood hazards from overflow of the WWR/CVSC or other stormwater channels be defined by detailed studies by CVWD or by the developer, where required.</i>”</p> <p>Added to the 6<sup>th</sup> bullet on pg 8-11, 12 “<i>....is not exposed to flood hazards from overtopping of a stormwater channel,....</i>” and minor revisions.</p>
<p>Section 8.5.6 page 8-12</p>	<p>Revised section number from 8.5.7 to 8.5.6 “<i>Flood Hazard Zoning</i>”.</p>
<p>Section 8.5.7 page 8-12</p>	<p>Revised section number from 8.5.8 to 8.5.7 “<i>Flood Hazard Mitigation</i>” and made minor revisions.</p>
<p>Section 8.5.8 page 8-13</p>	<p>Revised section number from 8.5.9 to 8.5.8 “<i>Sediment Hazard Mitigation</i>”.</p>
<p>Section 8.5.9</p>	<p>Revised section number from 8.5.10 to 8.5.9 “<i>Long Term and Post Storm Operation &amp; Maintenance Plans</i>”.</p>
<p>Section 8.7 page 8-14</p>	<p>Updated list of references.</p>

<p>Section 9.1 page 9-1,2</p>	<p>Minor changes to 2<sup>nd</sup> paragraph.</p> <p>Minor changes to 3<sup>rd</sup> paragraph and removed <i>“The canal water is also reinforced with on site wells. In some locations, recycled water and canal water are blended to fulfill non-potable water needs in the area, eg. WRP 7 area.”</i></p> <p>Minor changes to 4<sup>th</sup> paragraph.</p> <p>Added to 5<sup>th</sup> paragraph <i>“....(for connection to the canal water delivery system see Section 7)</i></p> <p>The bullets after 5<sup>th</sup> paragraph have been revised.</p>
<p>Table 9.1 page 9-1</p>	<p>Within table 9.1 <i>“Water Reclamation Plants (WRP’s) &amp; Non-Potable Water”</i> removed rows for WRP 1,2, &amp; 4, added column for <i>“Non-potable Pumping Capacity”</i> and minor revision to table footnotes 1 &amp; 2 and added footnote 3 <i>“<sup>3</sup>WRP-10 is the endpoint for the Mid-Valley pipeline where canal water is blended with disinfected tertiary recycled water to serve 9.5 golf courses.”</i></p>
<p>Section 9.2 page 9-2</p>	<p>Revised 1<sup>st</sup> paragraph under <i>“Water Code Sections 32600 – 32603”</i> to clarification description.</p> <p>Replaced 2<sup>nd</sup> bullet <i>(The CVWD Board will enforce the use of non-potable water when following conditions are met:”</i></p> <p>Added to 2<sup>nd</sup> sub-bullet <i>“...is of adequate quality for...”</i> and deleted <i>“...meets water quality for...”</i></p> <p>Minor changes to 4<sup>th</sup> bullet.</p>
<p>Section 9.3 page 9-3</p>	<p>Added to 2<sup>nd</sup> paragraph <i>“Non-potable water customers are required to maintain and have a back up source of water equal to one hundred percent of its peak irrigation water demands, as the non-potable water delivery is an interruptible supply.”</i></p>
<p>Section 9.4 page 9-3</p>	<p>Under 1<sup>st</sup> bullet <i>“OSHA Safety Purple”</i> was replaced with <i>“Pantone 512”</i>.</p>
<p>Section 9.5 Pages 9-3, 4 &amp; 5</p>	<p>Added bullets 1 thru 8 under <i>“Connection to CVWD Non-Potable Water System”</i> that covers the topics of regulatory requirements, permitting, CVWD agreement, plans, plan submittal &amp; approval, designated non-potable <i>“Use Site Supervisor”</i> and <i>As-Built</i> plans.</p>
<p>Section 9.9 page 9-6</p>	<p>Added in 1<sup>st</sup> paragraph <i>“All materials must meet California Department of Public Health statues and regulations related to the use of recycled water.”</i></p>
<p>Appendix A, Bill of Sale CVWD-</p>	<p>Minor revisions made to forms.</p>

<p>181A,B,C,D, &amp; F,        Plan Check Submittal        Application CVWD-        545 and        Petition for        Annexation CVWD-        203</p>	<p>Revised the Table of Contents to reflect the changes made.</p>
<p>Appendix B,        Standard &amp; Special        Agreements forms        CVWD-14a, b, c, &amp; d</p>	<p>Minor revisions made to forms.         Revised the Table of Contents to reflect the changes made.</p>
<p>Appendix F        Right-of-Way</p>	<p>Revised the Table of Contents to reflect the changes made.         Revised the following:   <i>“Right of Use Application Checklist”</i>  <i>“Form 299 Application”</i>  <i>“Pipeline Easement Exhibit A &amp; B”</i>  <i>“Subordination Agreement (CVWD-743)”</i>         Removed <i>“Preliminary Change of Ownership Report”</i>         Revised <i>“Grant of Easement/Pipeline(s)(CVWD-580)”</i>         Added the following:   <i>“Grant Deed (CVWD-581)”</i>  <i>“Permanent EP Example”</i>  <i>“Construction EP Example”</i>  <i>“Temporary EP Example”</i>  <i>“Standards for Legal Descriptions and Plats”</i>  <i>“Resolution No. 2007-100 (Right-of-Way Encroachment Policy)”</i>  <i>“Resolution No. 2006-198 (Disposal of Surplus Real Estate Policy)”</i>  <i>“Substitution of Trustee and Partial Reconveyance (CVWD-755)”</i>  <i>“Title Insurance Steps”</i>  <i>“NIRL Example”</i></p>
<p>Appendix K,        Stormwater</p>	<p>Minor revisions made to Guidelines K-1 to K-7         Revised standard stormwater details.</p>