



**Irvine Ranch  
Water District**

January 9, 2023

**Attention: IRWD Construction Manual Holders**

**Subject: IRWD Construction Manual 2023**

This letter provides notice of revisions made to the Irvine Ranch Water District (IRWD) Construction Manual. IRWD made modifications to several of the General Technical Specifications.

Holders of IRWD’s Construction Manual (Standard Drawings and General Technical Specifications) should completely replace the 2022 Construction Manual General Technical Specifications with the 2023 Construction Manual General Technical Specifications.

The latest Standard Drawings and General Technical Specifications can be accessed by going to <http://www.irwd.com>, clicking “Engineering” under the “Business” tab. At the “Engineering” page, the “Construction Manual” link can be selected. You can also select or type in the address below:

Construction Manual:

<http://www.irwd.com/images/pdf/doing-business/engineering/2023/IRWDConstructionManualJan2023.pdf>

Numerous changes were made to the General Technical Specifications. A track changes version of the updated specifications is available upon request. A list of the update sections is shown in the table below.

<b>Construction Manual</b>		
<b>Specification No.</b>	<b>Description</b>	<b>Revision Date</b>
01045	Existing Facilities	1/9/2023
02220	Structure Earthwork	1/9/2023
02223	Trenching, Backfilling, and Compacting	1/9/2023
03461	Precast Concrete Manholes & Bases	1/9/2023
09900	Painting and Coating	1/9/2023
15042	Hydrostatic Testing of Pressure Pipelines	1/9/2023
15043	Leakage & Infiltration Testing of Non-Pressure Pipelines	1/9/2023
15056	Ductile-Iron Pipe and Fittings	1/9/2023
15057	Copper Pipe and Fittings	1/9/2023
15076	Cement-Mortar Lined and Coated Steel Pipe	1/9/2023
15100	Manual Valves	1/9/2023

<b>Construction Manual</b>		
<b>Specification No.</b>	<b>Description</b>	<b>Revision Date</b>
16010	General Electrical Requirements	1/9/2023
16110	Raceways, Pull Boxes, and Fittings	1/9/2023
16120	Conductors and Cables	1/9/2023
16135	Cabinets and Enclosures	1/9/2023
16160	Panelboards	1/9/2023
16400	Service and Distribution	1/9/2023
16460	Transformers	1/9/2023
17000	General Instrumentation Control Requirements	1/9/2023
17110	Identification Tags	1/9/2023

In addition, the following electrical specifications were removed from the Construction Manual.

<b>Removed from Construction Manual</b>	
<b>Specification No.</b>	<b>Description</b>
16150	Electric Motors
16155	Low-Voltage Motor Control
16418	Variable Frequency Drives Below 100 HP
16443	Low-Voltage Switchboards
16500	Lighting
16620	Manual Transfer Switch
16625	Automatic Transfer Switch
16650	Telemetry Cable System
16700	Telephone Utility Equipment
17200	Miscellaneous Instrumentation Equipment
17300	PLC's and Programmable Operator Interfaces
17350	Telemetry and Control Systems – Communications Equipment
17360	Fiber-Optic Data Transmission System
17500	Uninterruptible Power Supply

If you have questions or suggestions for revisions to the General Technical Specifications, please contact Michael Lu, Chairman of the General Technical Specifications Committee, at (949) 453-5658 or [lumi@irwd.com](mailto:lumi@irwd.com).

Sincerely,



Kevin L. Burton, P.E.

Executive Director of Technical Services