Digital Asset Information & Modelling

DIGITAL ENGINEERING PROJECT SPECIFIC INFORMATION TEMPLATE

Version: 1

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Watercare

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More information
If you have further queries, contact the Watercare Enterprise Model team

DOCUMENT CONTROL

Document owner

Role	Interface and Improvement Manager
Organisation	Watercare Services Limited

Version History

Version	Section	Description of revision	Date
0.1	N/A	The first draft shared for review and comment	16/12/2022
1	All Sections	Document revised	23/01/2024

Approvers / Reviewers

Name	Title	Role
Farzam Farzadi	Value Realisation Digital Programme Lead	Author
Waldo Strydom	Principal Asset Lifecycle Engineer	Reviewer
Tuan Hawke	Interface and Improvement Manager	Reviewer / Approver

Table of Contents

1. Purpose

1.1 Background

The **Digital Engineering Project Specific Information Template** has been developed to capture and document all project-specific processes, information, workflows, and requirements, and as well as any deviations from the *Watercare Digital Engineering Execution Plan*.

The Digital Engineering Manager of each project will be responsible for developing and updating this document during the design, construction and handover stages of the project.

This document is one in a suite of Watercare documents which relate to Digital Engineering. It is assumed that the reader is familiar with the content of these documents shown below.

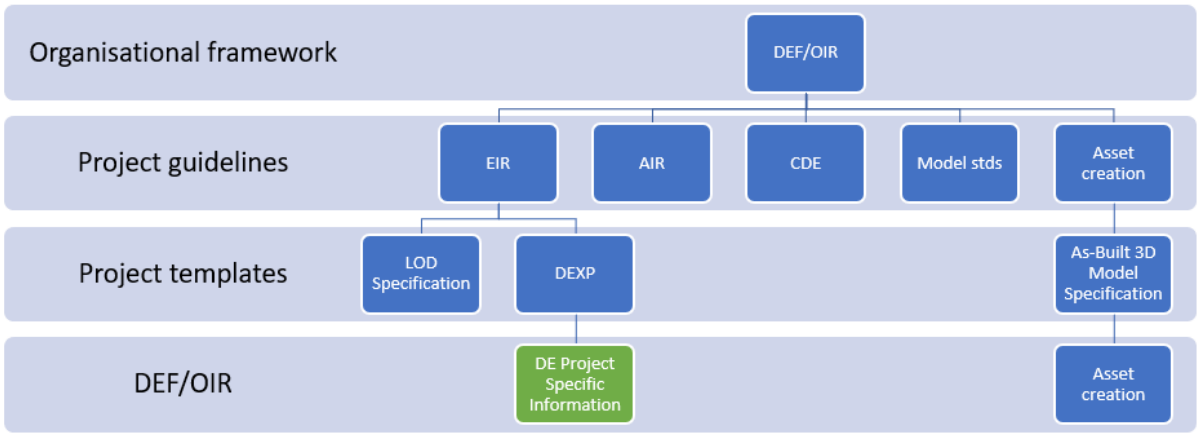


Figure 1 - Watercare Digital Delivery Documents

1.1.1 Updates to this document

This document will be reviewed regularly and in accordance with Watercare documentation and governance policies. The document owner is responsible for managing future updates. Any feedback or proposed changes should be sent to the document owner who will be responsible for revising, correcting, or updating this document.

The Document Owner commits to undertake the following:

- The updates are validated by those whom they affect. Changes to this plan may affect other plans.
- The changes will then be built into the next formal review process and an updated version will be identified.
- Seek approval from the Watercare Enterprise Model leadership group and Watercare Operations, Strategy and Planning, and Digital representatives regarding proposed changes to the document.
- Consult with and inform digital representatives of all contracted partners regarding proposed changes to the document.
- Takes responsibility for updating the controlled document status, communicating the changes, and circulating the revised plan.

1.2 Compliance requirements

This document needs to be utilised in conjunction with Watercare standards and the other Digital Engineering documents listed in Section 1.3.

1.3 Watercare Supporting documentation

- Level of Development Specification – January 2024
- Digital Engineering Execution Plan – January 2024
- As-Built Model Specification – January 2024

2. Introduction

Refer to the Watercare *Digital Engineering Execution Plan* for all general requirements and procedures. The purpose of this document is to capture and clarify project-specific digital engineering processes, information, workflows, and requirement, and any deviations from the *Watercare Digital Engineering Execution Plan*.

3. General

3.1 Project Information

Table 1 - Project Information

Details	
Project Name and Code	Fill column as required
Project Identification No.	
Project Location	

3.2 Project Key Team Members

Table 2 - Key Project Contacts

Project Role	Name	Company	Email
Watercare Project Manager	Fill Column as required	Fill Column as required	Fill Column as required
SPP Design Lead			
SPP Digital Engineering Manager			
SPP Digital Engineering Coordinator			
SPP Process - Design Lead			
SPP Process Engineer			
SPP Process – Design Digital Engineering Lead			
SPP Services – Design Lead			
SPP Services Engineer			

Project Role	Name	Company	Email
SPP Services - Digital Engineering Lead			
DDP Design Lead			
DDP Digital Engineering Manager			
DDP Process - Design Lead			
DDP Process Engineer			
DDP Process – Design Digital Engineering Lead			
CP Construction Lead			
DP Digital Engineering Manager			

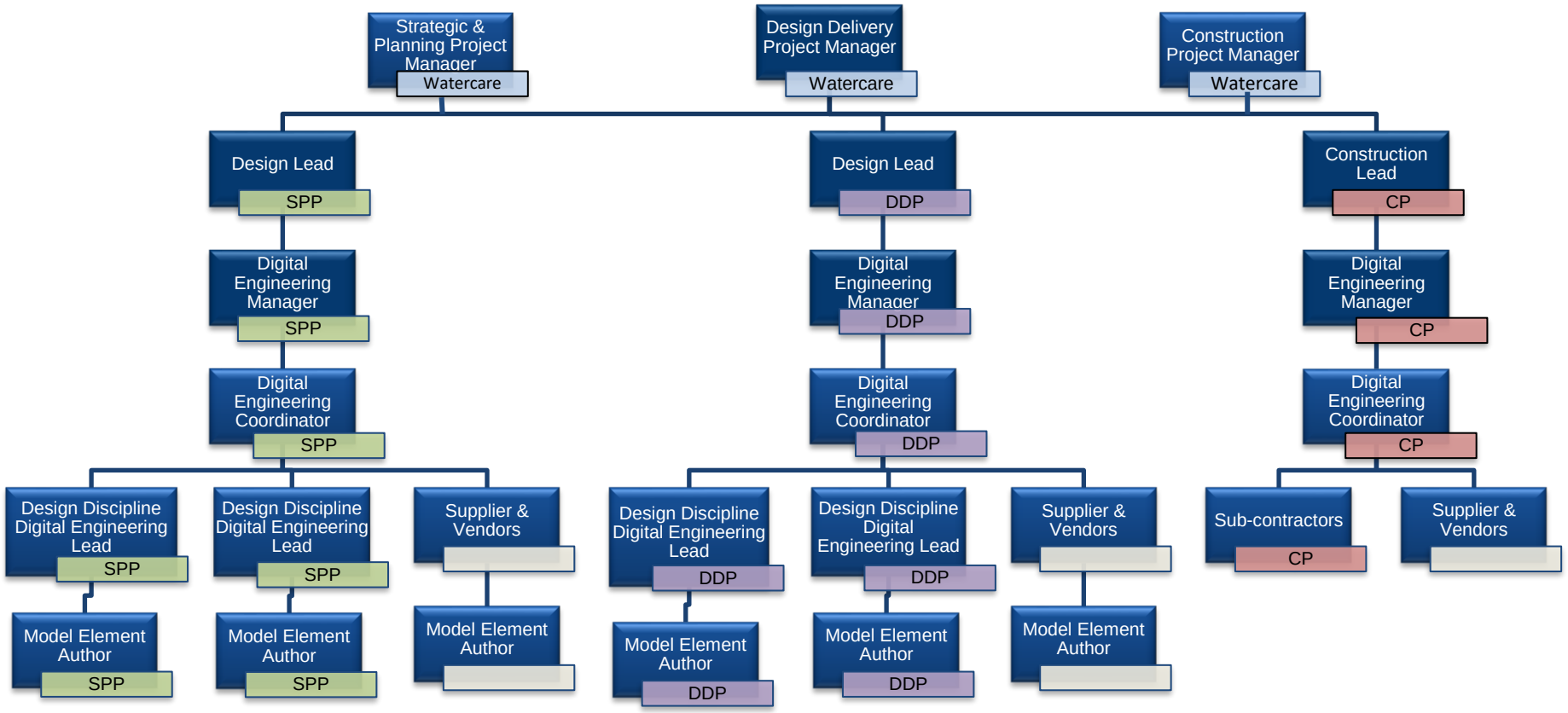
3.3 Project Schedule

Table 3 - Project Schedule

Project Phase	Programme Duration Date	Digital Engineering Meetings
Feasibility & Optioneering	Fill column as required	Fill column as required
Concept Design		
Developed Design		
Detailed Design		
Fabrication		
Construction		
Handover		

4. Project Organisation Chart

Update the org chart based on project key team members



5. Technical – Collaboration

5.1 Autodesk Construction Cloud (ACC) Access

For access to the project Autodesk Construction Cloud (ACC) site, please contact one of the following Administrators:

Table 4 - ACC Main Point of Contact

Stages	Project Role	Name	Contact
Feasibility & Optioneering and Concept Design	SPP Digital Engineering Manager	TBC upon appointment	TBC upon appointment
Feasibility & Optioneering and Concept Design	SPP Digital Engineering Coordinator		
Developed Design and Detailed Design	DDP Digital Engineering Manager		
Developed Design and Detailed Design	DDP Digital Engineering Coordinator		

6. Technical – Modelling

The agreed modelling units for this project will be metric millimetres.

The model location and orientation will be as follows:

Table 5 - Survey Datums

	Details
Geodetic Datum	New Zealand Transverse Mercator (NZTM)
Vertical Datum	New Zealand Vertical Datum 2016 (NZVD 2016)
Project Site Model - Base Point	
Northing	0 - TBC upon appointment
Easting	0
Elevation	0
Angle to True North	0°
Project Site Model - Survey Point	
Northing	0 - TBC upon appointment
Easting	0
Elevation	0

[Project specific model naming, model structure and variations from WSL standards to be added here]

7. Project Specific Processes and Workflows

[Project-specific digital engineering processes, information, workflows, and requirements to be inserted here]

8. Project Specific Supplier Requirements and Workflows

[Project-specific details to be inserted here if applicable]

9. Project Specific Level of Development and Information

[Project-specific details to be inserted here if applicable]

10. Project Specific Digital Engineering and BIM Deliverables

[Project-specific details to be inserted here]

11. Standard Terms and Definitions

Table 6 - Standard Terms and Definitions

Terms	Definitions
Appointing Party	From ISO 19650. The client or employer. The organisation that is commissioning the project or owns the asset.
As-Built	Describing or representing the actual appearance, condition, structure, and location of a constructed asset
Autodesk Construction Cloud	A software used to manage construction documents.
Building Information Modelling (BIM)	A coordinated set of processes, supported by technology, that add value through the sharing of structured information for assets.
Common Data Environment	A single source of information for any given project, used to collect, manage and disseminate all relevant approved project documents for multi-disciplinary teams in a managed process
Level of Development	A scale used to describe the level of completeness to which a model element can be relied on at different times during model development.

11.1 Acronyms

Table 7 - Acronyms

Acronyms	Definitions
ACC	Autodesk Construction Cloud
BIM	Building Information Modelling
CP	Construction Partner
DDP	Design and Delivery Partner
SPP	Strategic and Planning Partner
NZTM	New Zealand Transverse Mercator