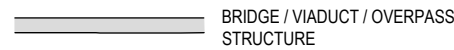
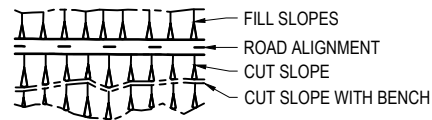
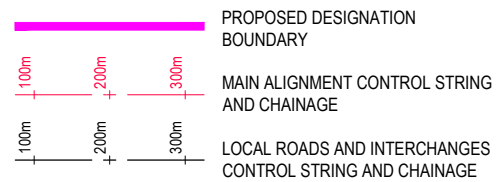


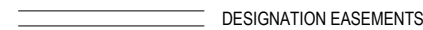
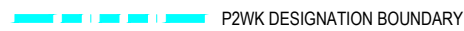
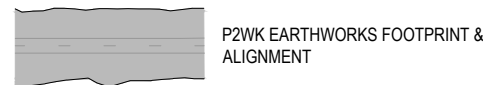
DRAWING NUMBER	DRAWING TITLE
<b>CONSTRUCTION WATER MANAGEMENT DRAWINGS</b>	
CW-001	CONSTRUCTION WATER MANAGEMENT - DRAWING INDEX, NOTES AND LEGEND
CW-011	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 1 OF 23
CW-012	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 2 OF 23
CW-013	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 3 OF 23
CW-014	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 4 OF 23
CW-015	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 5 OF 23
CW-016	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 6 OF 23
CW-017	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 7 OF 23
CW-018	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 8 OF 23
CW-019	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 9 OF 23
CW-020	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 10 OF 23
CW-021	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 11 OF 23
CW-022	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 12 OF 23
CW-023	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 13 OF 23
CW-024	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 14 OF 23
CW-025	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 15 OF 23
CW-026	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 16 OF 23
CW-027	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 17 OF 23
CW-028	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 18 OF 23
CW-029	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 19 OF 23
CW-030	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 20 OF 23
CW-031	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 21 OF 23
CW-032	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 22 OF 23
CW-033	CONSTRUCTION WATER MANAGEMENT - CONCEPT PLAN - SHEET 23 OF 23
CW-071	CONSTRUCTION WATER MANAGEMENT - CONCEPTUAL CONSTRUCTION YARD OUTLINE
CW-072	CONSTRUCTION WATER MANAGEMENT - TYPICAL CONCEPT DESIGN DETAILS - SHEET 1 OF 5
CW-073	CONSTRUCTION WATER MANAGEMENT - TYPICAL CONCEPT DESIGN DETAILS - SHEET 2 OF 5
CW-074	CONSTRUCTION WATER MANAGEMENT - TYPICAL CONCEPT DESIGN DETAILS - SHEET 3 OF 5
CW-075	CONSTRUCTION WATER MANAGEMENT - TYPICAL CONCEPT DESIGN DETAILS - SHEET 4 OF 5
CW-076	CONSTRUCTION WATER MANAGEMENT - TYPICAL CONCEPT DESIGN DETAILS - SHEET 5 OF 5
CW-081	SOIL DISPOSAL SITE ESTABLISHMENT CONCEPTUAL - METHODOLOGY STAGING PLAN - SHEET 1 OF 4
CW-082	SOIL DISPOSAL SITE ESTABLISHMENT CONCEPTUAL - METHODOLOGY STAGING PLAN - SHEET 2 OF 4
CW-083	SOIL DISPOSAL SITE ESTABLISHMENT CONCEPTUAL - METHODOLOGY STAGING PLAN - SHEET 3 OF 4
CW-084	SOIL DISPOSAL SITE ESTABLISHMENT CONCEPTUAL - METHODOLOGY STAGING PLAN - SHEET 4 OF 4
CW-086	INDICATIVE ESC MEASURES - BRIDGE 11 - PLAN AND ELEVATION - SHEET 1 OF 2
CW-087	INDICATIVE ESC MEASURES - BRIDGE 11 - PLAN AND ELEVATION - SHEET 2 OF 2

### LEGEND

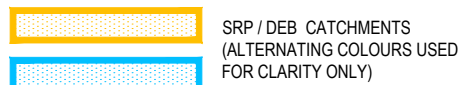
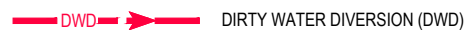
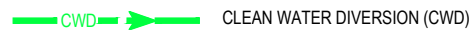
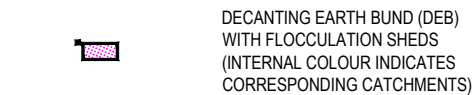
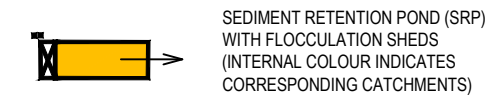
#### ROAD PLAN - INDICATIVE ALIGNMENT



#### EXISTING FEATURES



#### CONSTRUCTION WATER MANAGEMENT



### GENERAL NOTES

1. THE ALIGNMENT IS INDICATIVE ONLY.
2. ALL MEASUREMENTS ARE IN METRES UNLESS OTHERWISE STATED.
3. ALL NAMED ROADS ARE ASSUMED TO BE PUBLIC UNLESS STATED OTHERWISE.
4. AERIAL IMAGE FROM AUCKLAND COUNCIL AERIAL SURVEY, 2012.
5. DIGITAL TERRAIN MODEL IS COMBINED FROM AERIAL SURVEY (AUG 2010) & AUCKLAND COUNCIL LIDAR DATA TO NZTM PROJECTION.
6. EXISTING PROPERTY BOUNDARIES SOURCED FROM LINZ, MAY 2019 UPDATE.
7. ALL STREAMS WILL BE BRIDGED, CULVERTED AND/OR DIVERTED. REFER SW SERIES FOR INDICATIVE CULVERTS AND DIVERSION LOCATIONS.
8. ALL SOIL DISPOSAL SITE LOCATIONS AND SHAPES ARE INDICATIVE ONLY. ALL SOIL DISPOSAL SITE WORKS ARE TO OCCUR OUTSIDE OF ANY STREAM CHANNEL.
9. NO CULVERTS LONGER THAN 30m WILL BE LOCATED IN A SIGNIFICANT ECOLOGICAL AREA (SEA) AS IDENTIFIED IN THE AUCKLAND UNITARY PLAN.

### CONSTRUCTION WATER MANAGEMENT NOTES

1. THIS CONSTRUCTION WATER MANAGEMENT PLAN IS CONCEPTUAL ONLY AND IS TO BE UPDATED / AMENDED BY THE CONTRACTOR DURING THE CONSTRUCTION PHASE. STAGING OF WORKS MAY INVOLVE RELOCATION OF THE SEDIMENT RETENTION DEVICES AFTER EACH STAGE.
2. THE CONSTRUCTION WATER MANAGEMENT MEASURES SHOWN ON DRAWINGS CW-011 TO CW-033 ASSUME THE CONSTRUCTION STAGE WHEN CULVERTS AND PERMANENT STREAM DIVERSIONS ARE COMPLETED AND OPERATIONAL.
3. THE CONSTRUCTION WATER MANAGEMENT PLANS IN DRAWINGS CW-011 TO CW-087 INCLUSIVE, SHOW THE WATER MANAGEMENT CONCEPTS ADOPTED FOR THE 'FLAT FOCUS AREA' OF THE ASSESSMENT AND GENERALLY COVER THE ROAD SECTOR AS SHOWN ON DRAWING ES-011-031. THE PRINCIPLES PROVIDED IN THESE DRAWINGS ARE TO BE APPLIED TO OTHER SECTORS AS APPROPRIATE.
4. THE CONSTRUCTION WATER MANAGEMENT PLAN FOR SOIL DISPOSAL SITES ON DRAWINGS CW-081 TO CW-085, HAS BEEN PROVIDED AS AN EXAMPLE. THIS METHODOLOGY IS APPLIED TO ALL SOIL DISPOSAL SITES.

### LIST OF ACRONYMS

CЕСP - CONSTRUCTION EROSION AND SEDIMENT CONTROL PLAN  
 CIS - CONTAINER IMPOUNDMENT SYSTEM  
 WAR - WATER ASSESSMENT REPORT  
 CWD - CLEAN WATER DIVERSION  
 DEB - DECANTING EARTH BUND  
 DWD - DIRTY WATER DIVERSION  
 ESC - EROSION AND SEDIMENT CONTROL  
 MHWS - MEAN HIGH WATER SPRINGS  
 TP90 - TECHNICAL PUBLICATION 90  
 SRP - SEDIMENT RETENTION POND  
 SSF - SUPER SILT FENCE

0	ISSUED FOR RMA APPROVALS	WAS	JB*	BN*	07/19	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



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Approved BN*	Date JULY 2019		
Scale NTS	This Drawing must not be used for Construction unless signed as Approved		Original Size <b>A1</b>

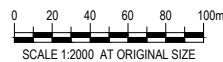
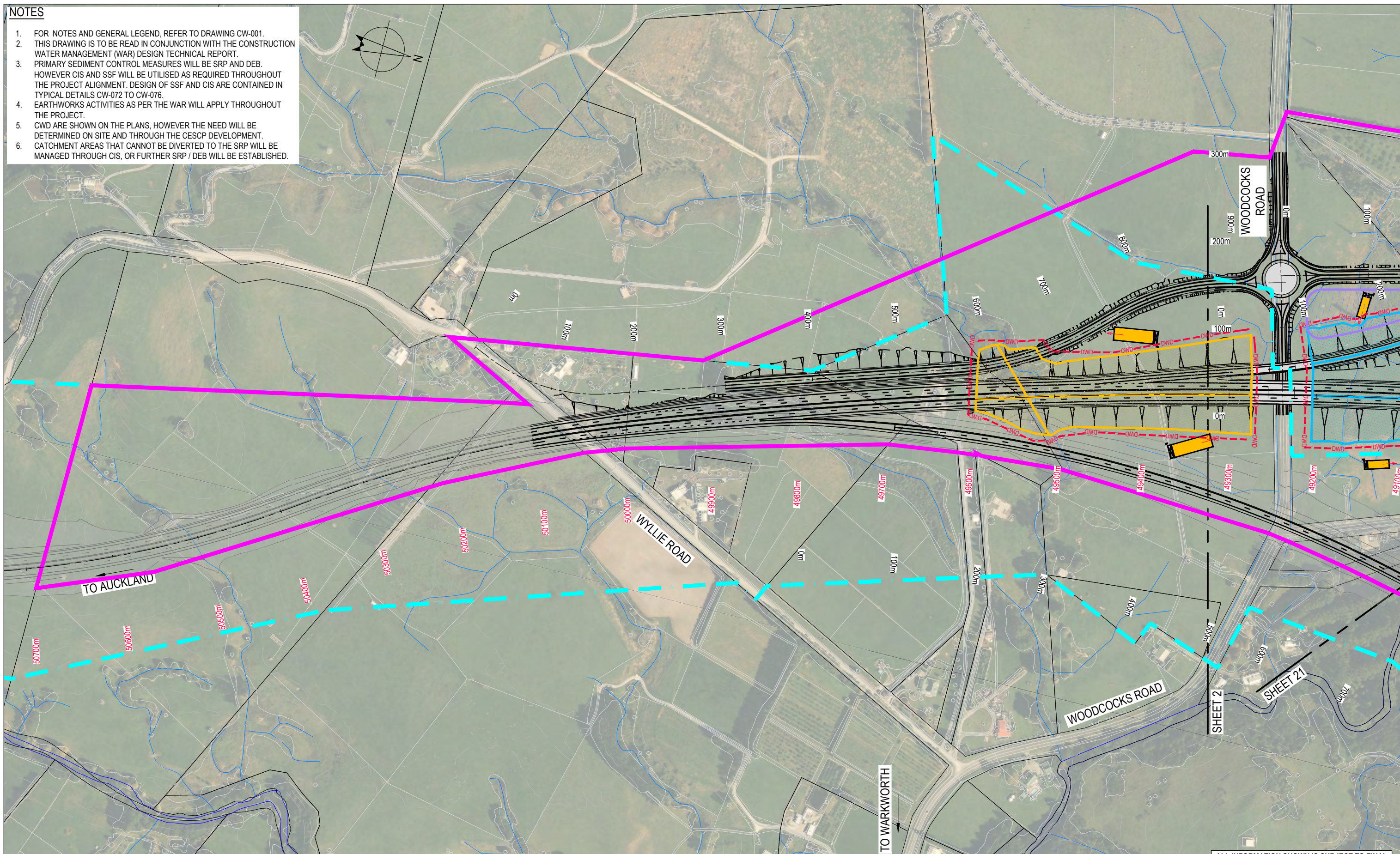
Project **WARKWORTH TO WELLSFORD PROJECT**

Title **CONSTRUCTION WATER MANAGEMENT NOTES AND LEGEND**

Contract: **PA4156** Drawing No: **CW-001** Sheet: **1 OF 1** Rev: **0**

**NOTES**

1. FOR NOTES AND GENERAL LEGEND, REFER TO DRAWING CW-001.
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4. EARTHWORKS ACTIVITIES AS PER THE WAR WILL APPLY THROUGHOUT THE PROJECT.
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6. CATCHMENT AREAS THAT CANNOT BE DIVERTED TO THE SRP WILL BE MANAGED THROUGH CIS, OR FURTHER SRP / DEB WILL BE ESTABLISHED.



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No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



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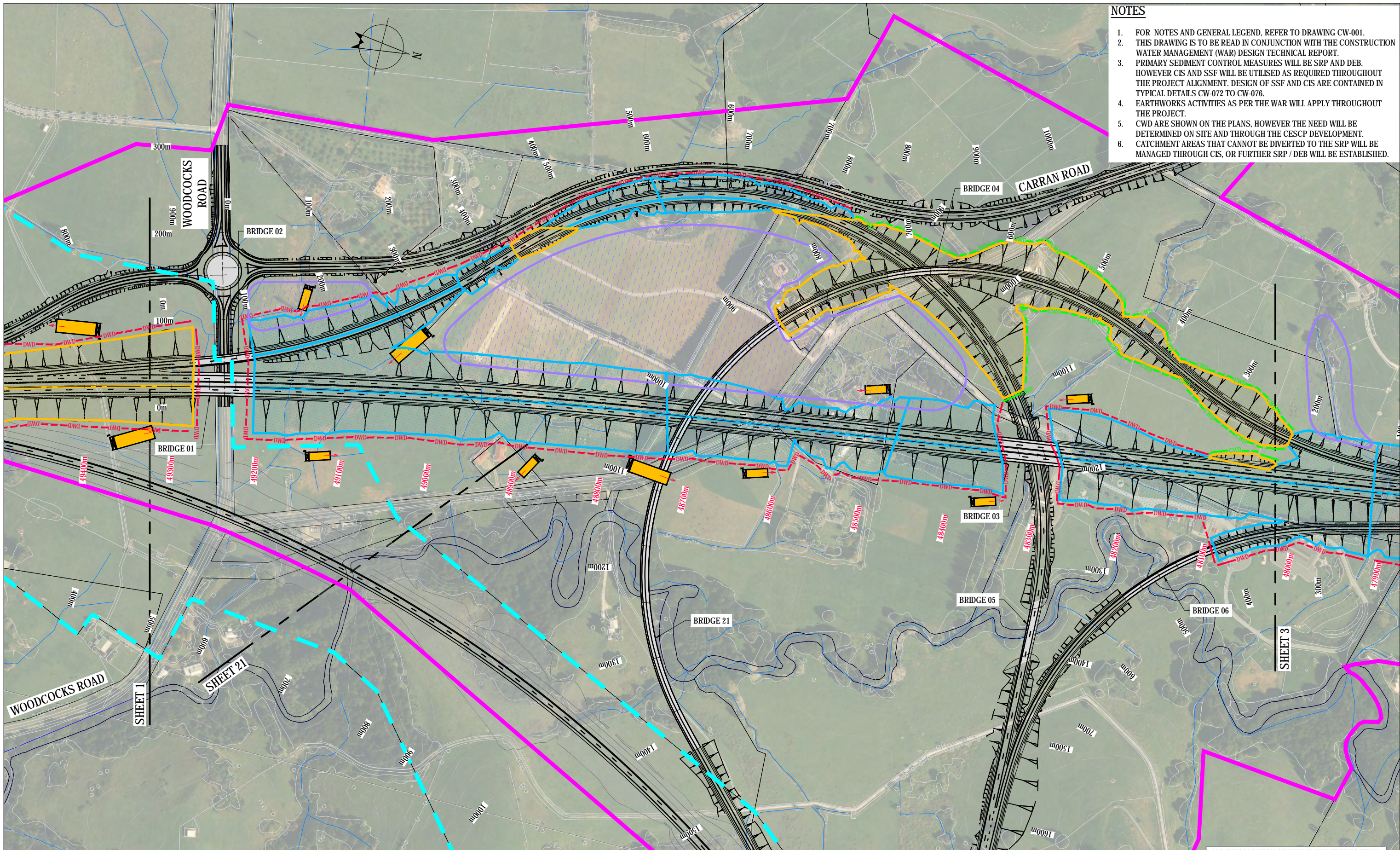
**FOR RMA APPROVALS**

Drawn WAS	Drafting TC* Check	Designed RP	Design TC* Check
Approved BN*	Date JULY 2019		
Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved		Original Size <b>A1</b>

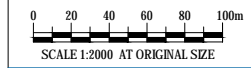
Project **WARKWORTH TO WELLSFORD PROJECT**

Title **CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN**

Contract: **PA4156** Drawing No: **CW-011** Sheet: **1 OF 23** Rev: **0**



- NOTES**
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  2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE CONSTRUCTION WATER MANAGEMENT (WAR) DESIGN TECHNICAL REPORT.
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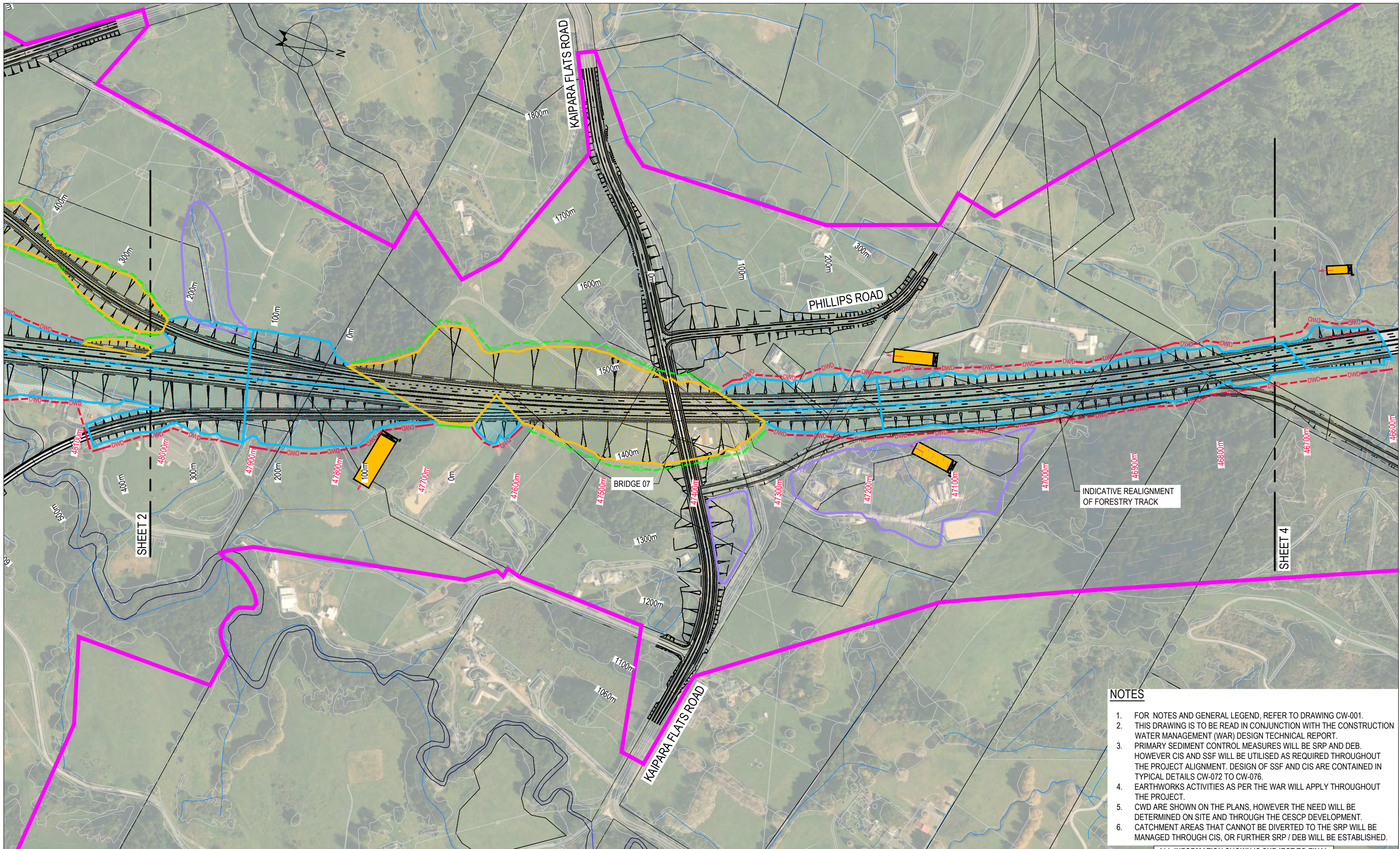
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No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



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Approved BN*	Date JULY 2019		Original Size
Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved		<b>A1</b>

Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>			
Title	<b>CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN</b>			
Contract:	PA4156	Drawing No:	CW-012	Sheet: 2 OF 23
Rev:	0			

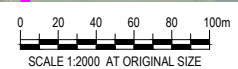


INDICATIVE REALIGNMENT OF FORESTRY TRACK

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No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



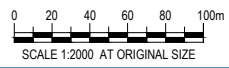
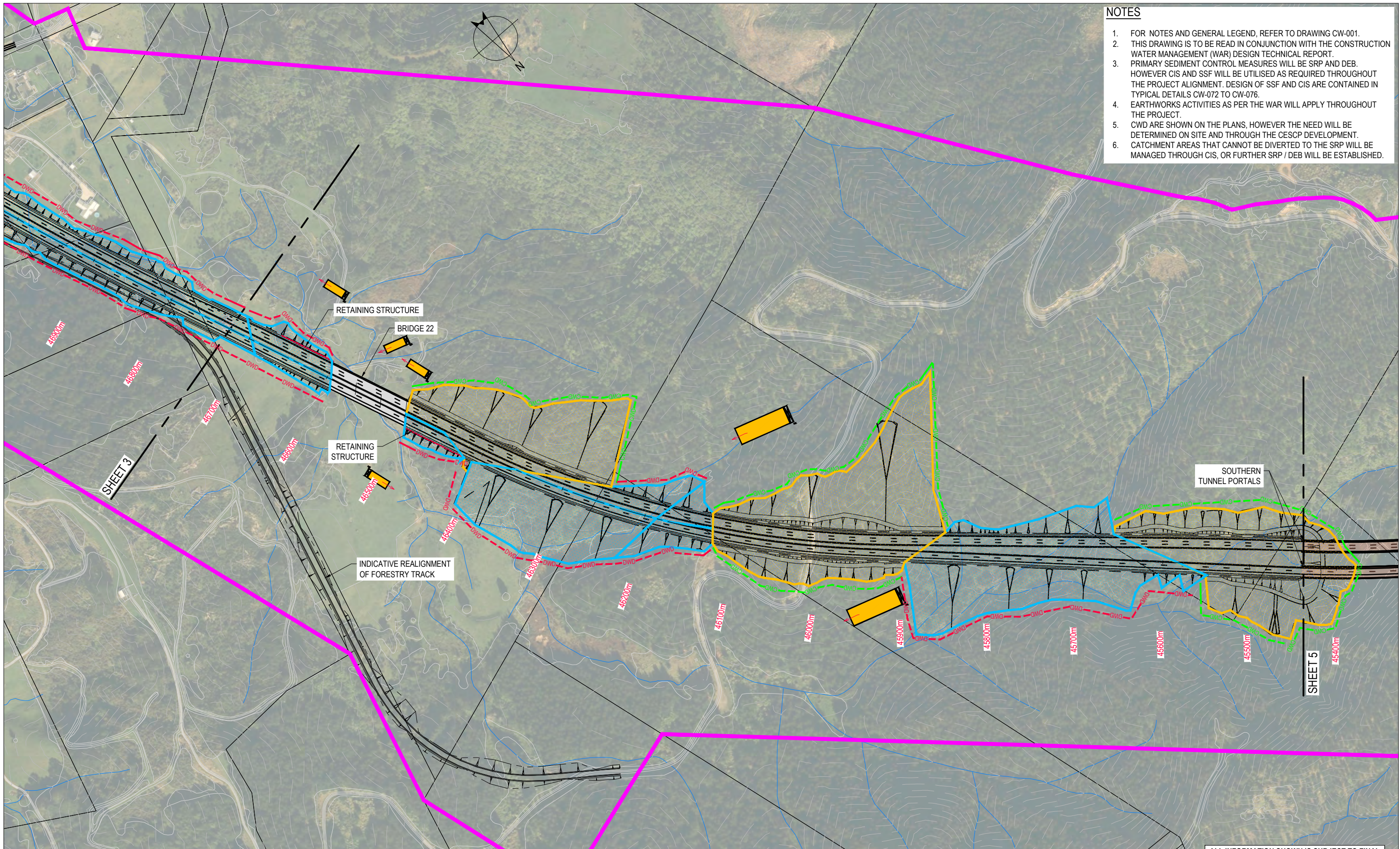
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Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>			
Title	<b>CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN</b>			
Contract:	<b>PA4156</b>	Drawing No:	<b>CW-013</b>	Sheet: <b>3 OF 23</b>
Rev:	<b>0</b>			

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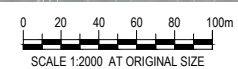
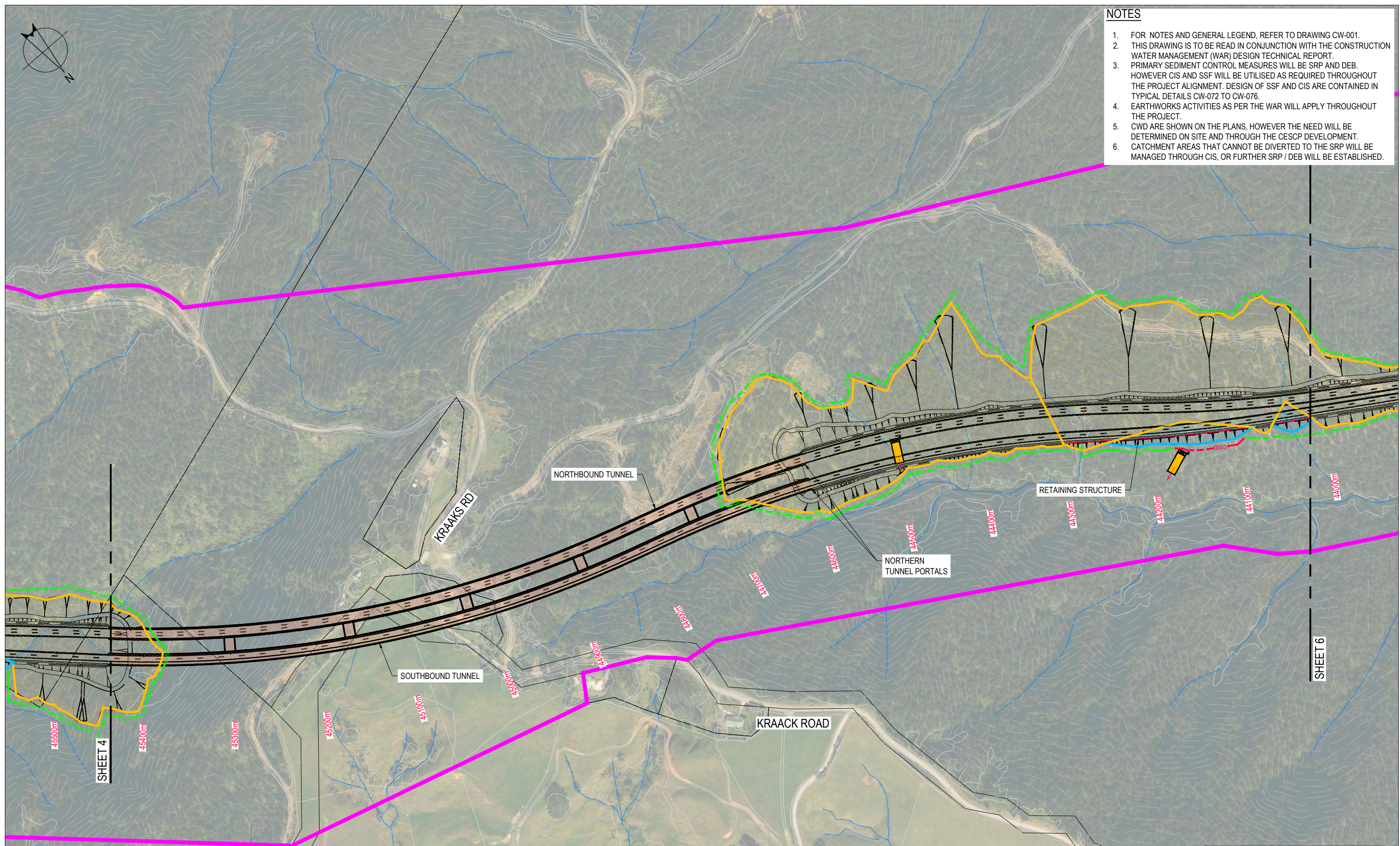
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Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>			
Title	<b>CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN</b>			
Contract:	<b>PA4156</b>	Drawing No:	<b>CW-014</b>	Sheet: <b>4 OF 23</b>
Rev:	<b>0</b>			



- NOTES**
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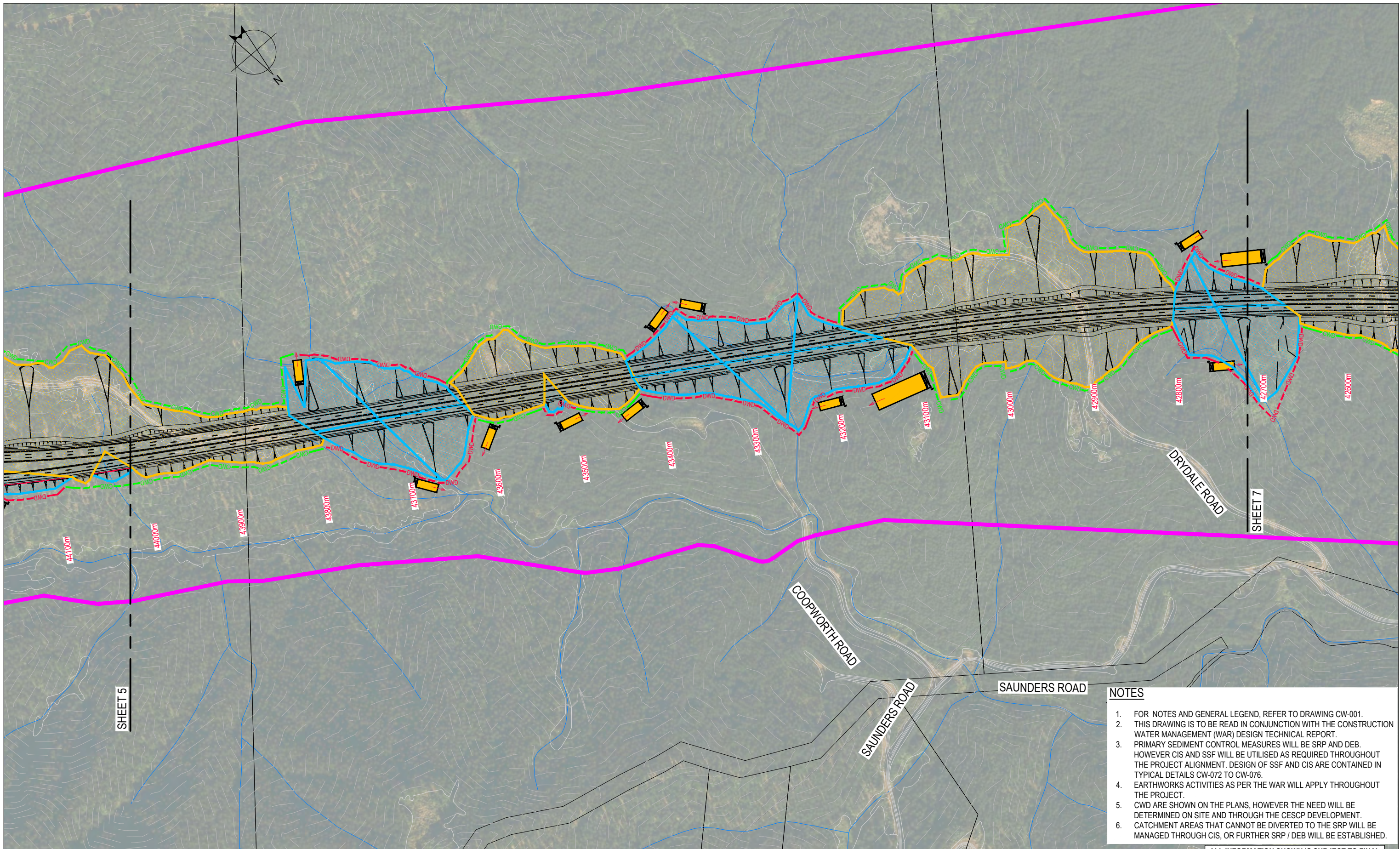
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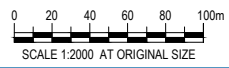
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Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>			
Title	<b>CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN</b>			
Contract:	<b>PA4156</b>	Drawing No:	<b>CW-015</b>	Sheet: <b>5 OF 23</b>
Rev:	<b>0</b>			



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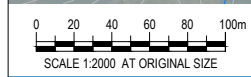
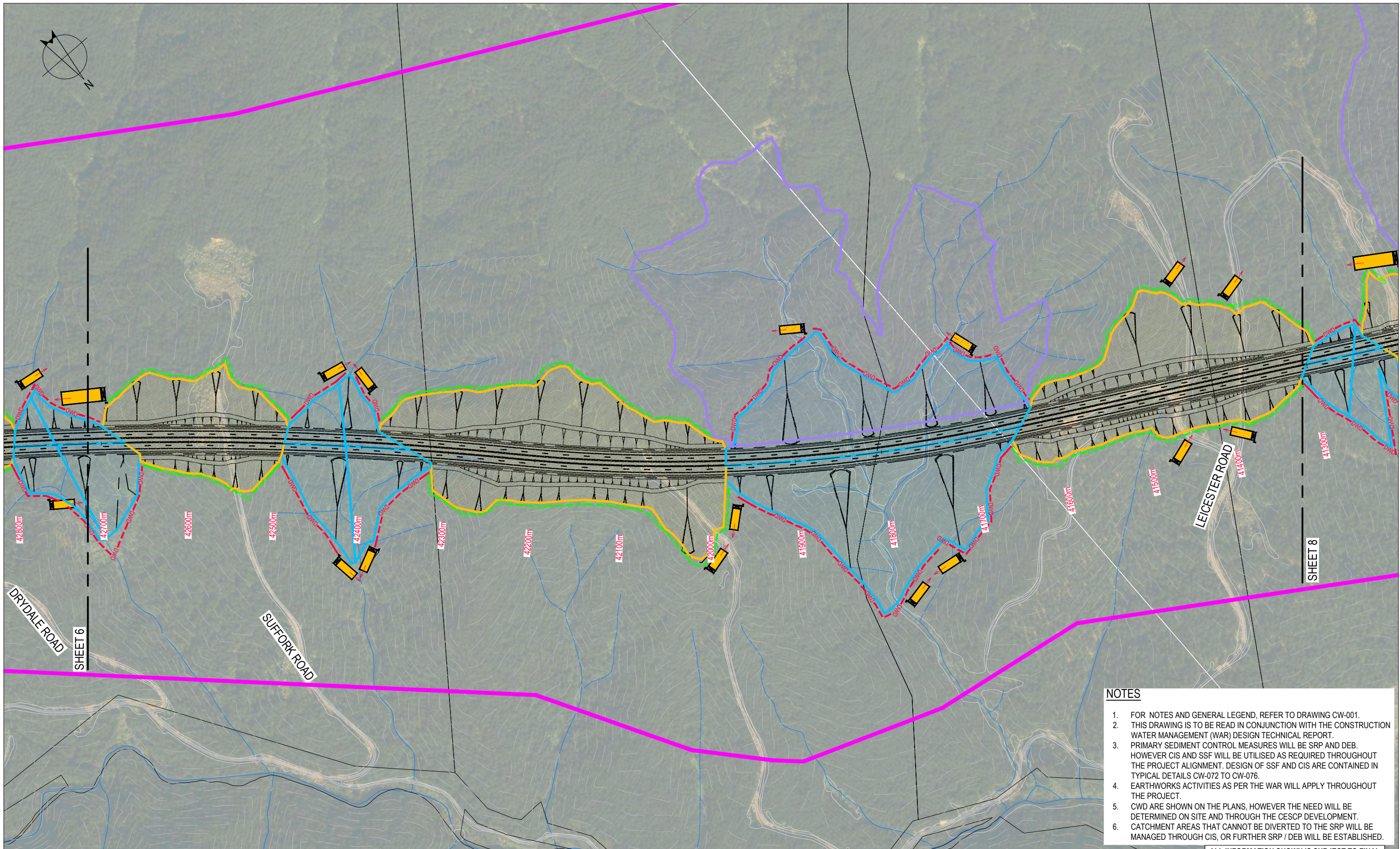
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Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>			
Title	<b>CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN</b>			
Contract:	<b>PA4156</b>	Drawing No:	<b>CW-016</b>	Sheet: <b>6 OF 23</b>
Rev:	<b>0</b>			



- NOTES**
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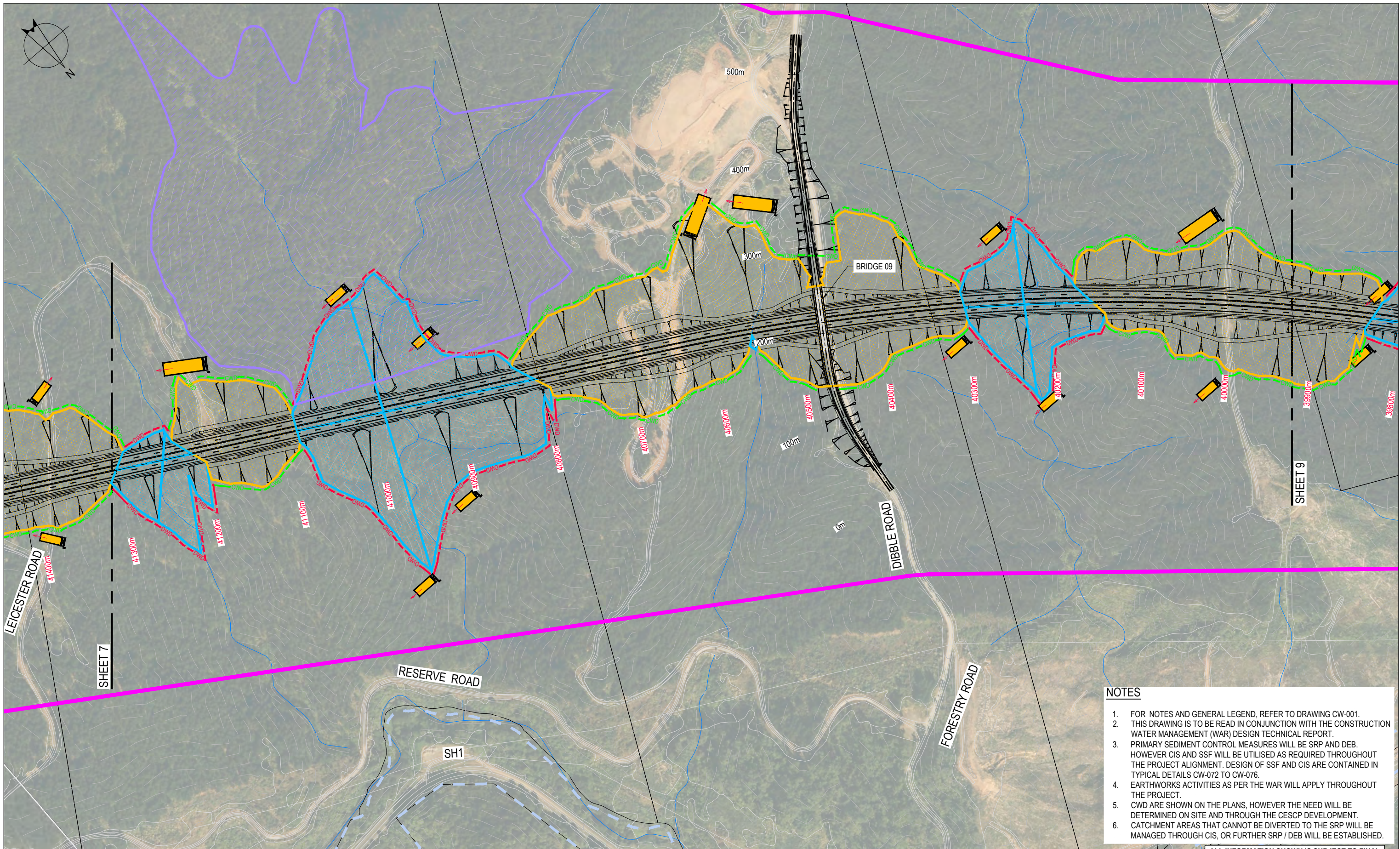


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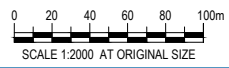
Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>		
Title	<b>CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN</b>		
Contract:	<b>PA4156</b>	Drawing No:	<b>CW-017</b>
Sheet:	<b>7 OF 23</b>	Rev:	<b>0</b>





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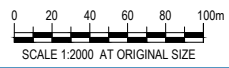
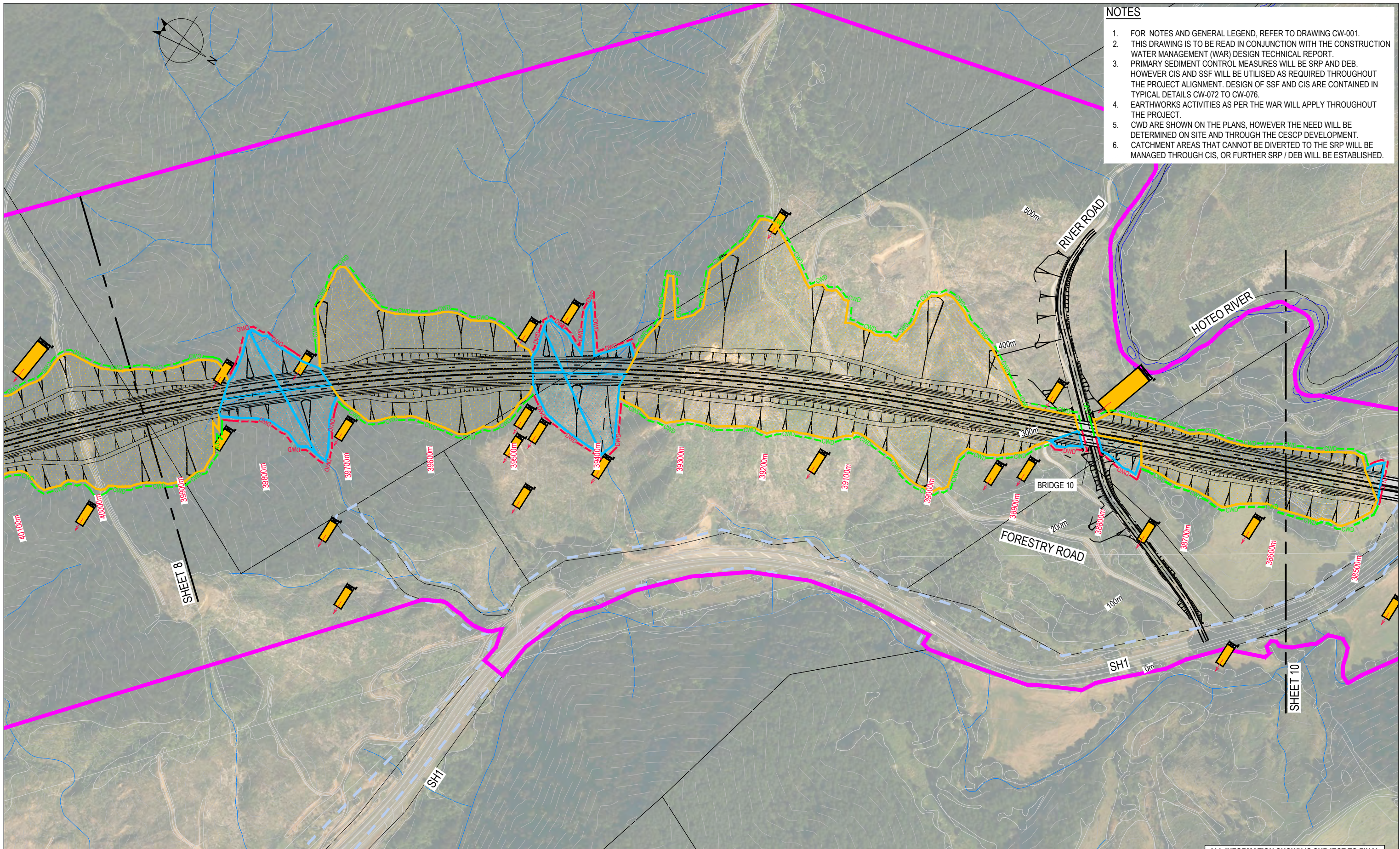
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Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>			
Title	<b>CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN</b>			
Contract:	<b>PA4156</b>	Drawing No:	<b>CW-018</b>	Sheet: <b>8 OF 23</b>
Rev:	<b>0</b>			

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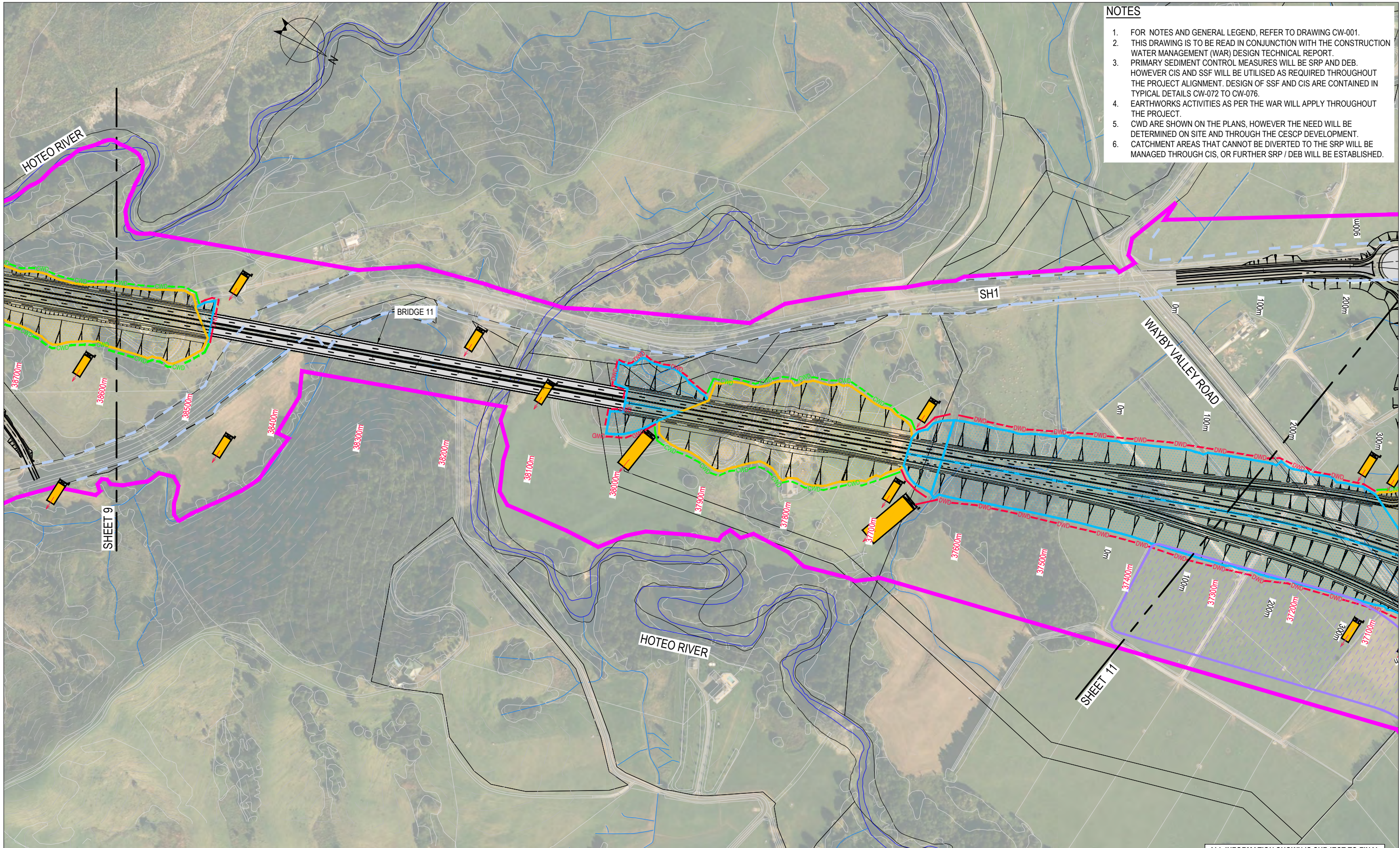
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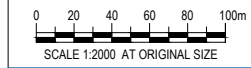
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Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>			
Title	<b>CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN</b>			
Contract:	<b>PA4156</b>	Drawing No:	<b>CW-019</b>	Sheet: <b>9 OF 23</b>
Rev:	<b>0</b>			



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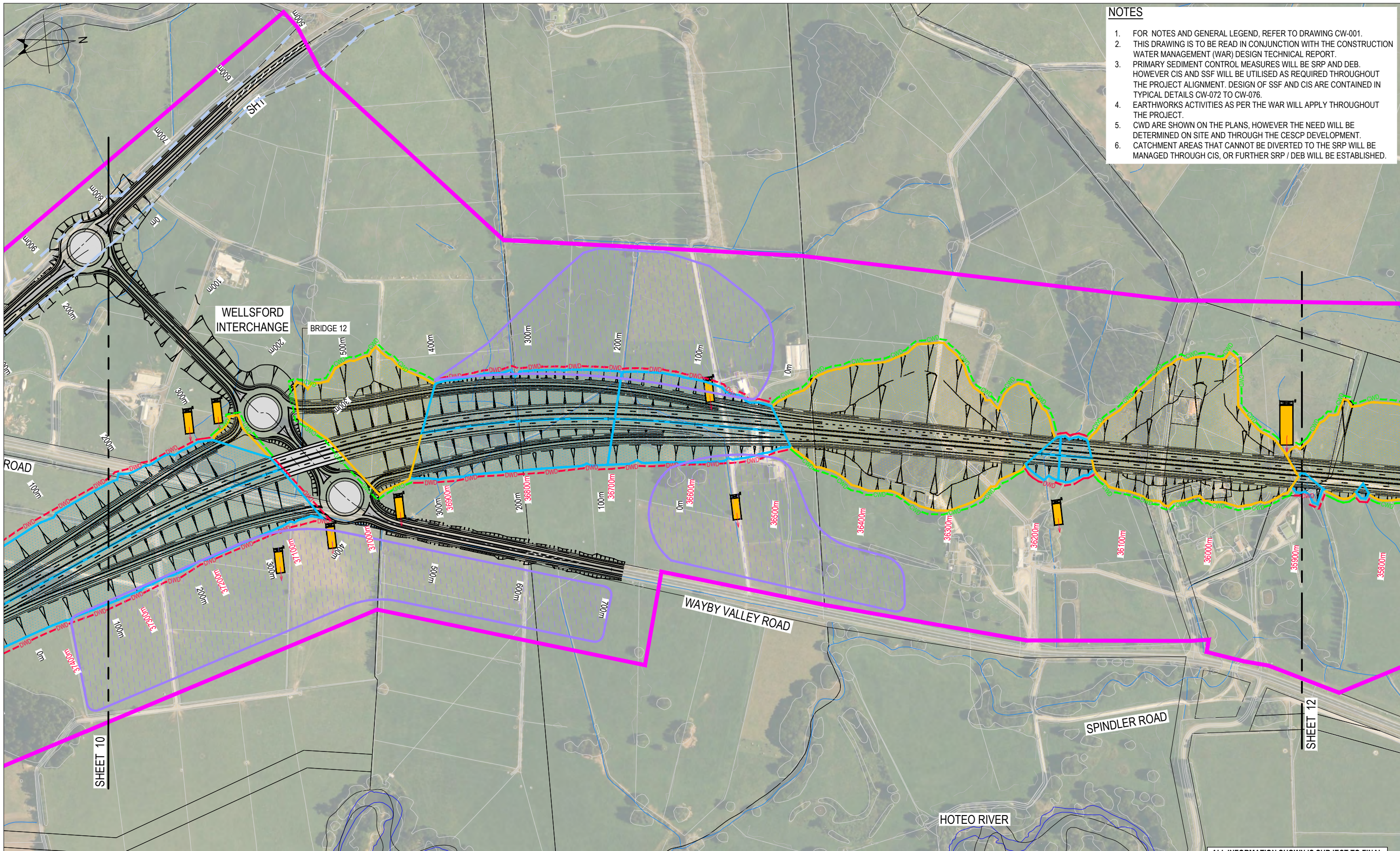
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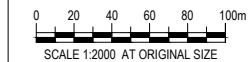
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Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>			
Title	<b>CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN</b>			
Contract:	<b>PA4156</b>	Drawing No:	<b>CW-020</b>	Sheet: 10 OF 23
Rev:	<b>0</b>			



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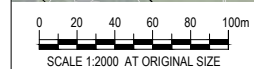
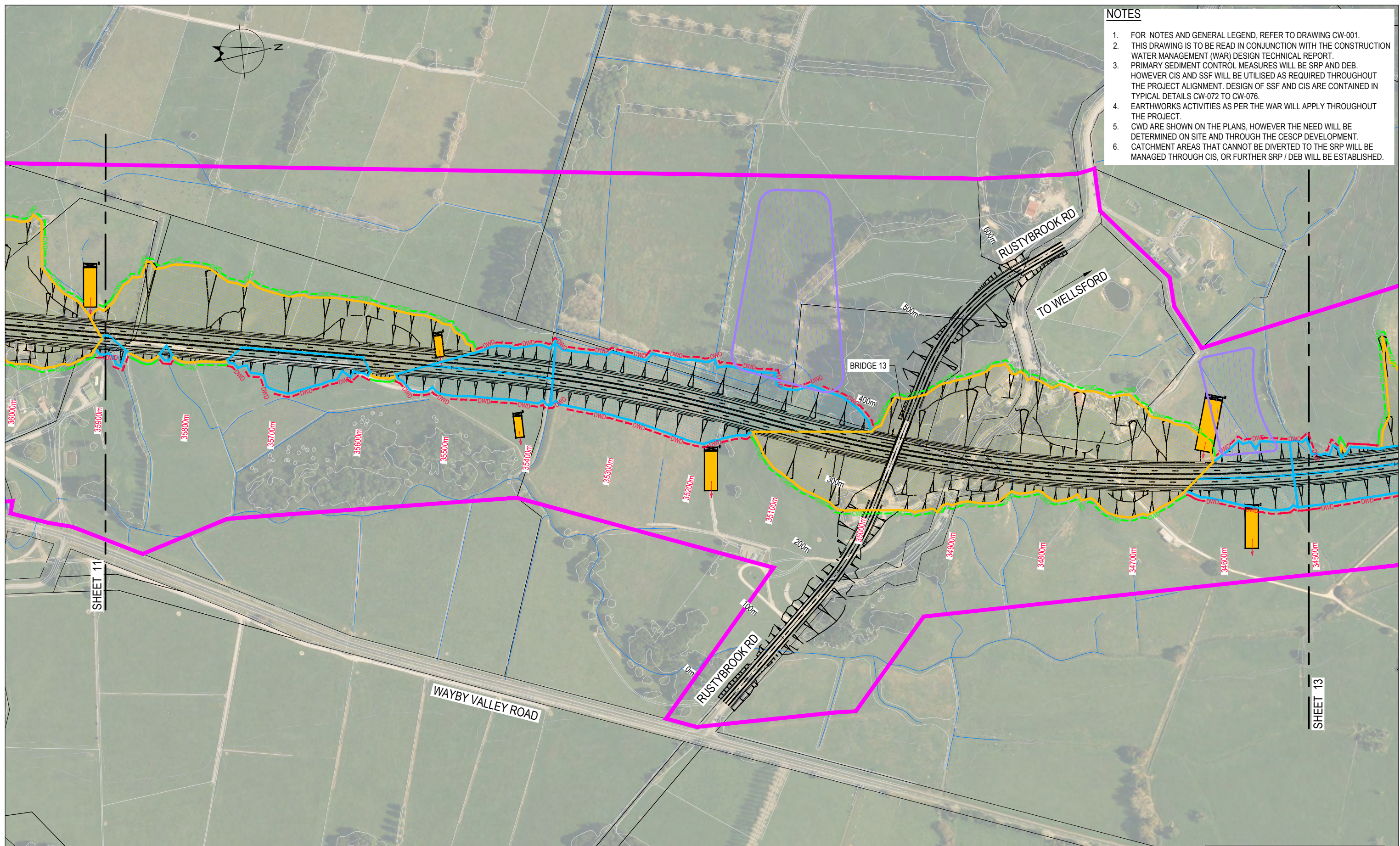


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Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>			
Title	<b>CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN</b>			
Contract:	<b>PA4156</b>	Drawing No:	<b>CW-021</b>	Sheet: 11 OF 23
Rev:	<b>0</b>			

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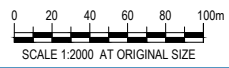
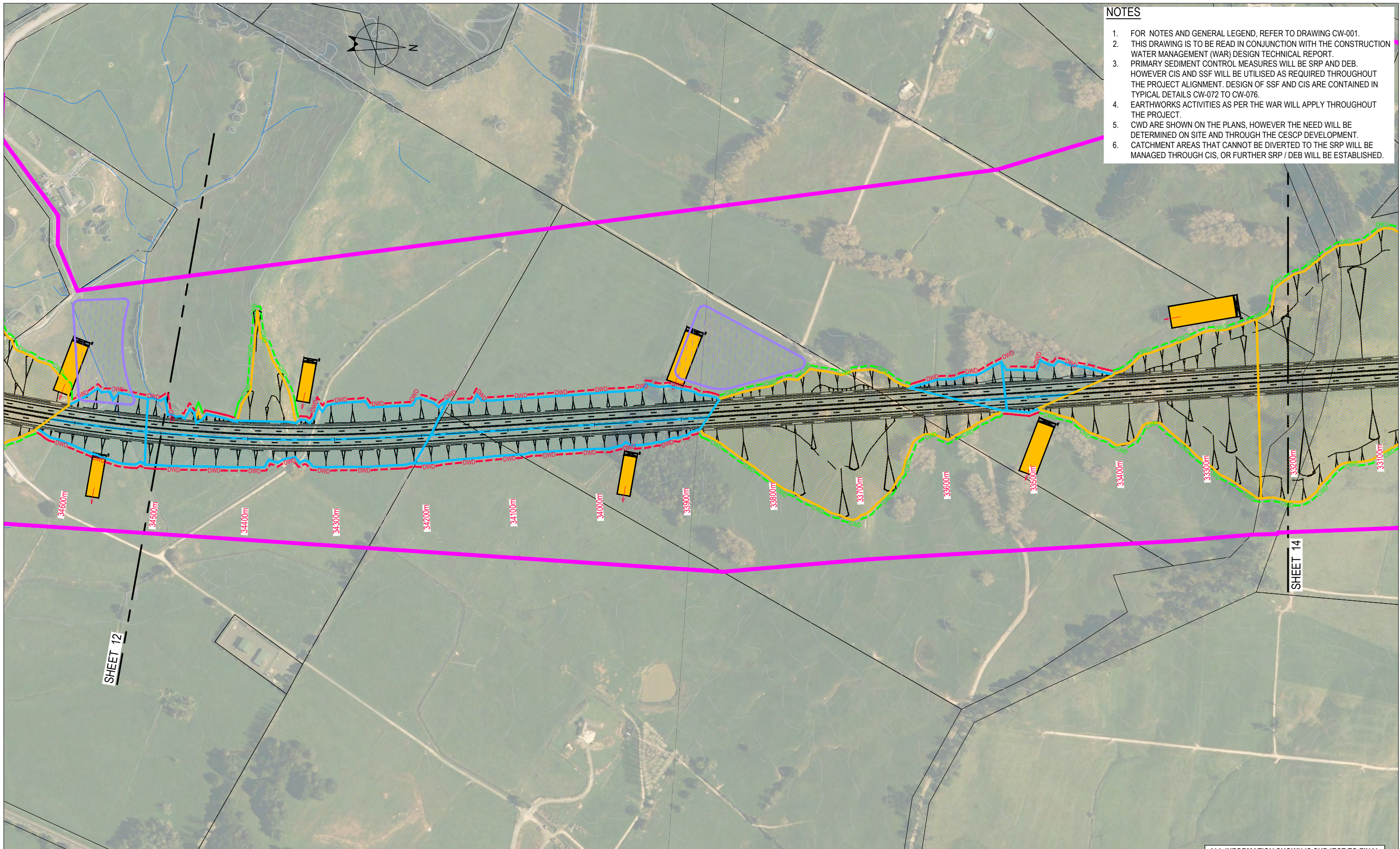
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Title	<b>CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN</b>		
Contract:	<b>PA4156</b>	Drawing No:	<b>CW-022</b>
Sheet:	<b>12 OF 23</b>	Rev:	<b>0</b>

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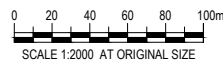
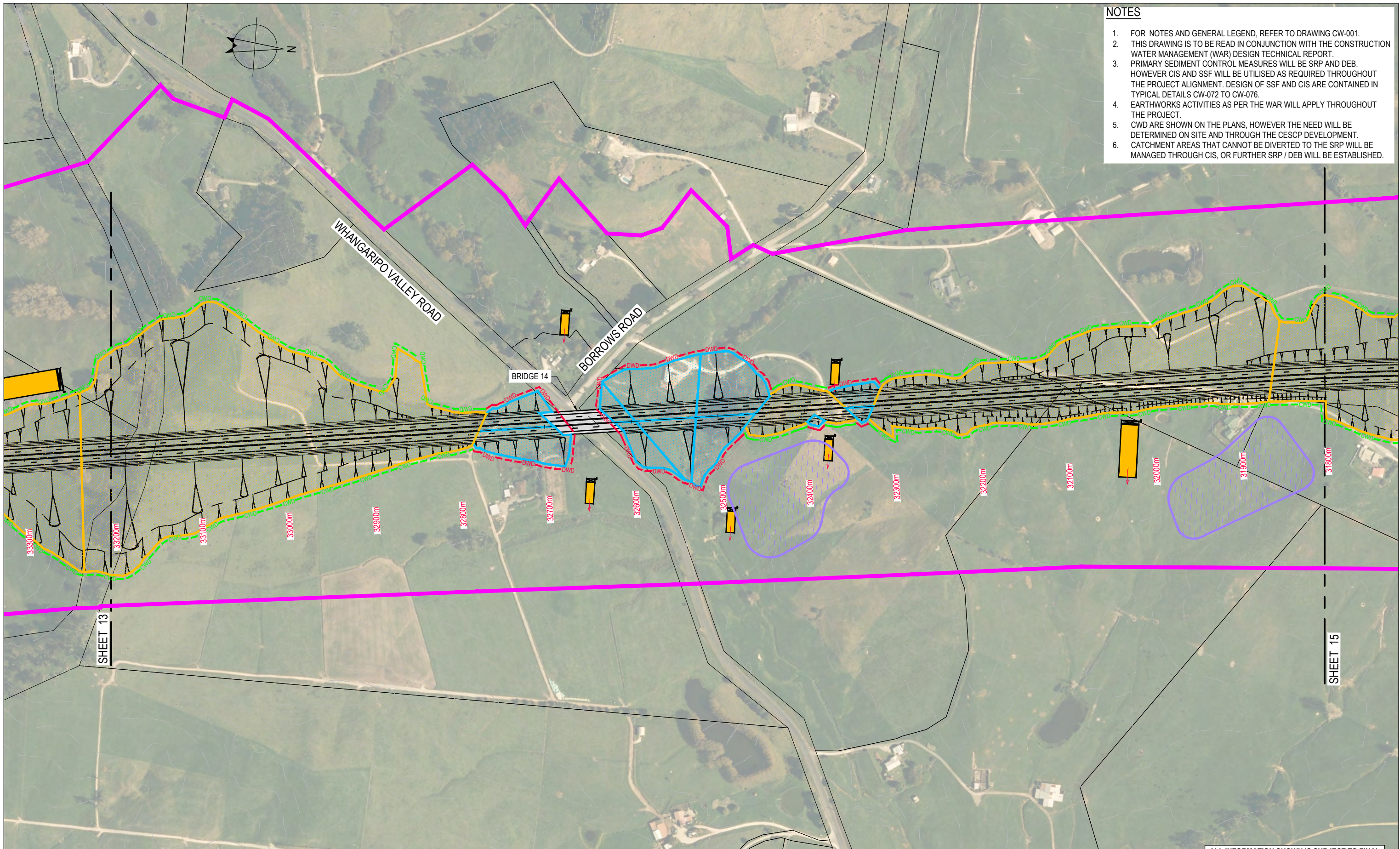
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Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>		
Title	<b>CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN</b>		
Contract:	<b>PA4156</b>	Drawing No:	<b>CW-023</b>
Sheet:	<b>13 OF 23</b>	Rev:	<b>0</b>

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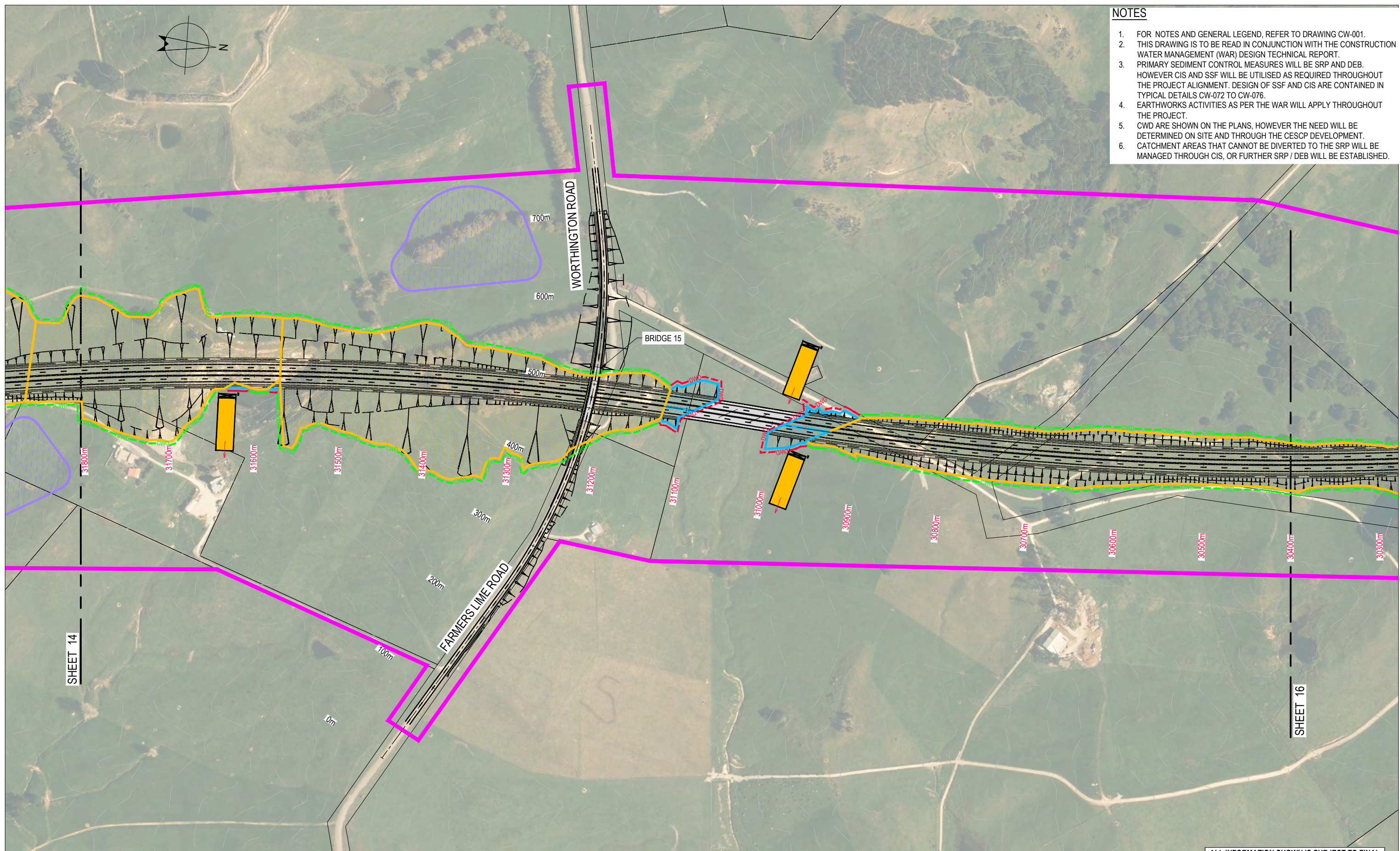
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Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>		
Title	<b>CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN</b>		
Contract:	<b>PA4156</b>	Drawing No:	<b>CW-024</b>
Sheet:	<b>14 OF 23</b>	Rev:	<b>0</b>



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SHEET 14

SHEET 16

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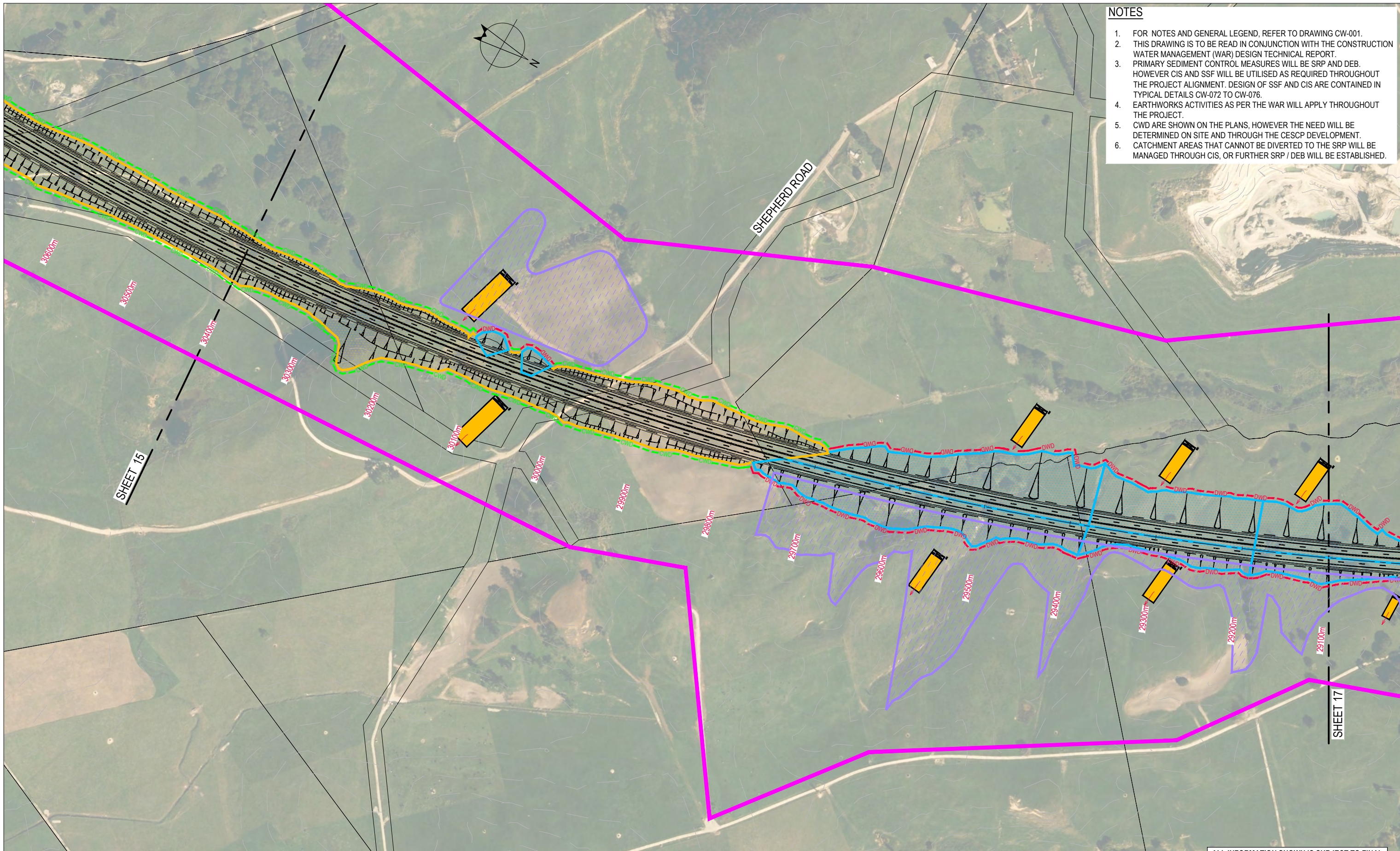


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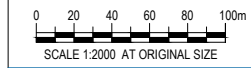
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Drawn WAS	Drafting TC*	Designed RP	Design TC*
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Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>			
Title	<b>CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN</b>			
Contract:	<b>PA4156</b>	Drawing No:	<b>CW-025</b>	Sheet: 15 OF 23
Rev:	<b>0</b>			





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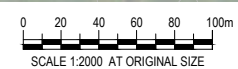
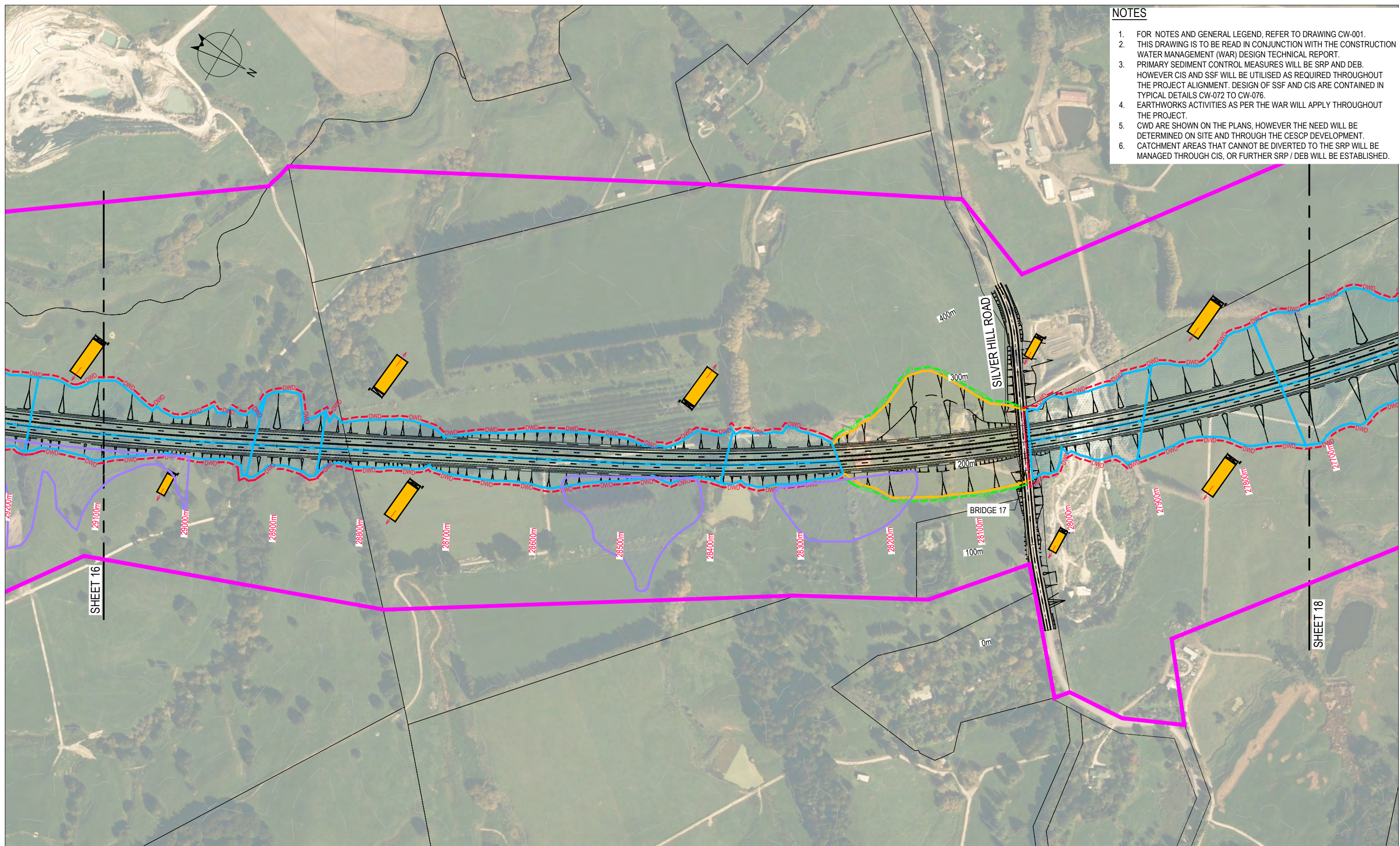


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Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>			
Title	<b>CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN</b>			
Contract:	<b>PA4156</b>	Drawing No:	<b>CW-026</b>	Sheet: 16 OF 23
Rev:	<b>0</b>			

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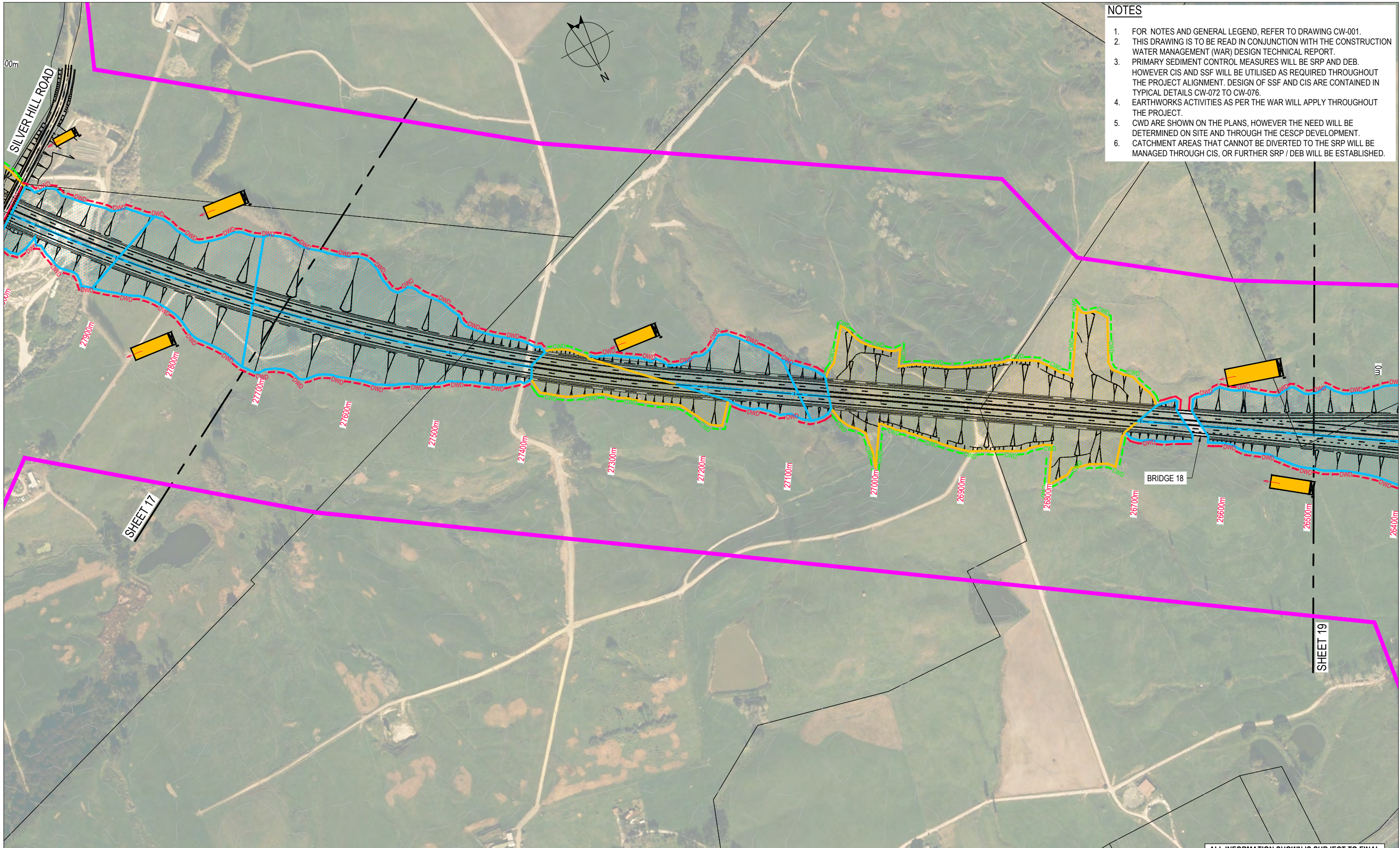
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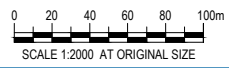
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Approved BN*	Date JULY 2019		
Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved		Original Size <b>A1</b>

Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>		
Title	<b>CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN</b>		
Contract:	<b>PA4156</b>	Drawing No:	<b>CW-027</b>
Sheet:	<b>17 OF 23</b>	Rev:	<b>0</b>



- NOTES**
1. FOR NOTES AND GENERAL LEGEND, REFER TO DRAWING CW-001.
  2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE CONSTRUCTION WATER MANAGEMENT (WAR) DESIGN TECHNICAL REPORT.
  3. PRIMARY SEDIMENT CONTROL MEASURES WILL BE SRP AND DEB. HOWEVER CIS AND SSF WILL BE UTILISED AS REQUIRED THROUGHOUT THE PROJECT ALIGNMENT. DESIGN OF SSF AND CIS ARE CONTAINED IN TYPICAL DETAILS CW-072 TO CW-076.
  4. EARTHWORKS ACTIVITIES AS PER THE WAR WILL APPLY THROUGHOUT THE PROJECT.
  5. CWD ARE SHOWN ON THE PLANS, HOWEVER THE NEED WILL BE DETERMINED ON SITE AND THROUGH THE CESP DEVELOPMENT.
  6. CATCHMENT AREAS THAT CANNOT BE DIVERTED TO THE SRP WILL BE MANAGED THROUGH CIS, OR FURTHER SRP / DEB WILL BE ESTABLISHED.



ALL INFORMATION SHOWN IS SUBJECT TO FINAL DESIGN AND THE DETAILS MAY CHANGE. AREAS AND MEASUREMENTS ARE SUBJECT TO SURVEY

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
0	ISSUED FOR RMA APPROVALS		WAS	JB*	BN*	07/19



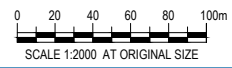
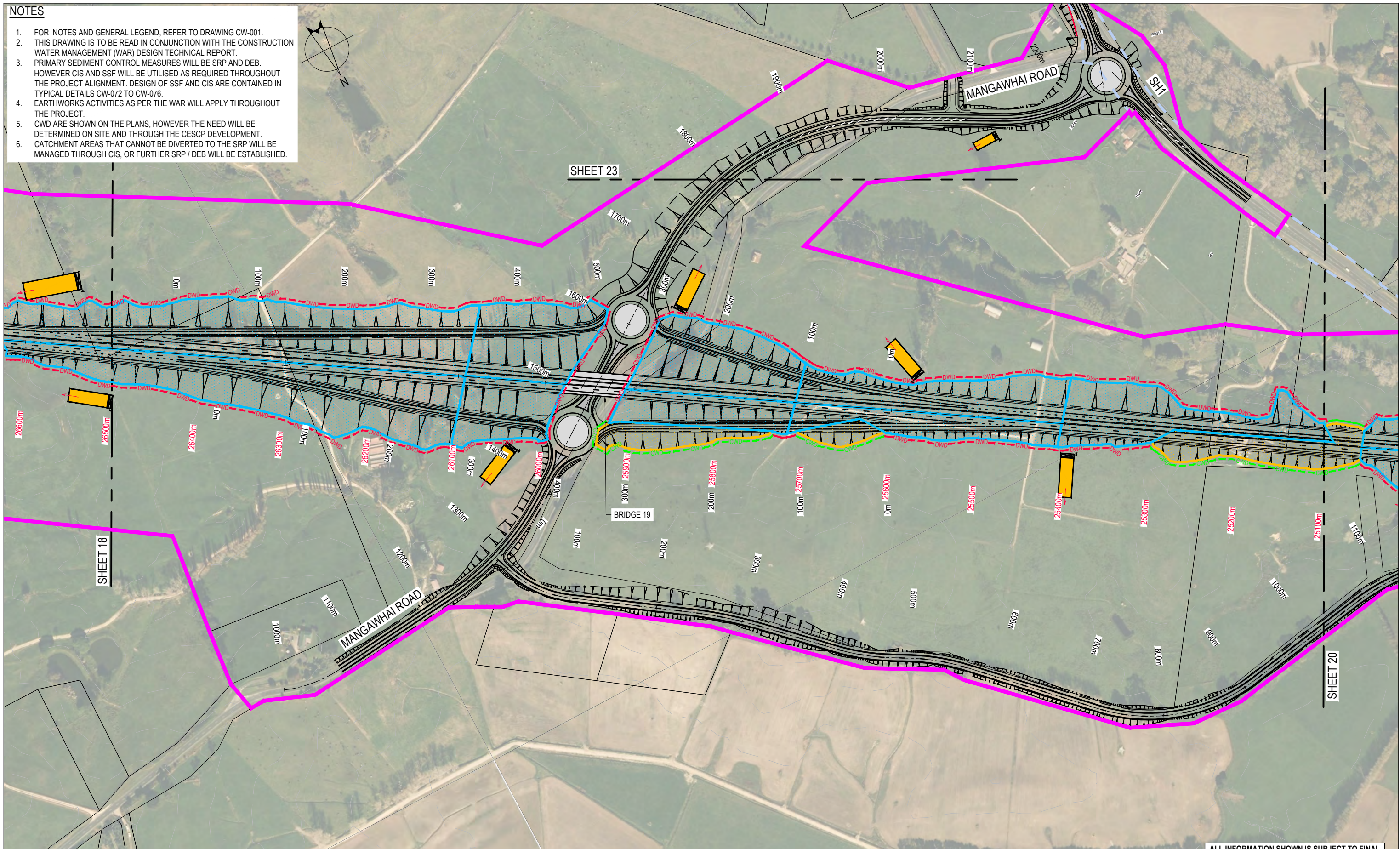
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Drawn WAS	Drafting Check TC*	Designed RP	Design Check TC*
Approved BN*	Date JULY 2019		
Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved		Original Size <b>A1</b>

Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>			
Title	<b>CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN</b>			
Contract:	<b>PA4156</b>	Drawing No:	<b>CW-028</b>	Sheet: 18 OF 23
Rev:	<b>0</b>			

**NOTES**

1. FOR NOTES AND GENERAL LEGEND, REFER TO DRAWING CW-001.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE CONSTRUCTION WATER MANAGEMENT (WAR) DESIGN TECHNICAL REPORT.
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FOR RMA APPROVALS			
Drawn WAS	Drafting TC* Check	Designed RP	Design TC* Check
Approved BN*	Date JULY 2019		
Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved		Original Size <b>A1</b>

Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>			
Title	<b>CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN</b>			
Contract:	<b>PA4156</b>	Drawing No:	<b>CW-029</b>	Sheet: 19 OF 23
Rev:	<b>0</b>			