



**WIAL-UNCOVERED CARPARK  
WELLINGTON**



**Project 147103.30**



# Drawing Index

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# Project Notes

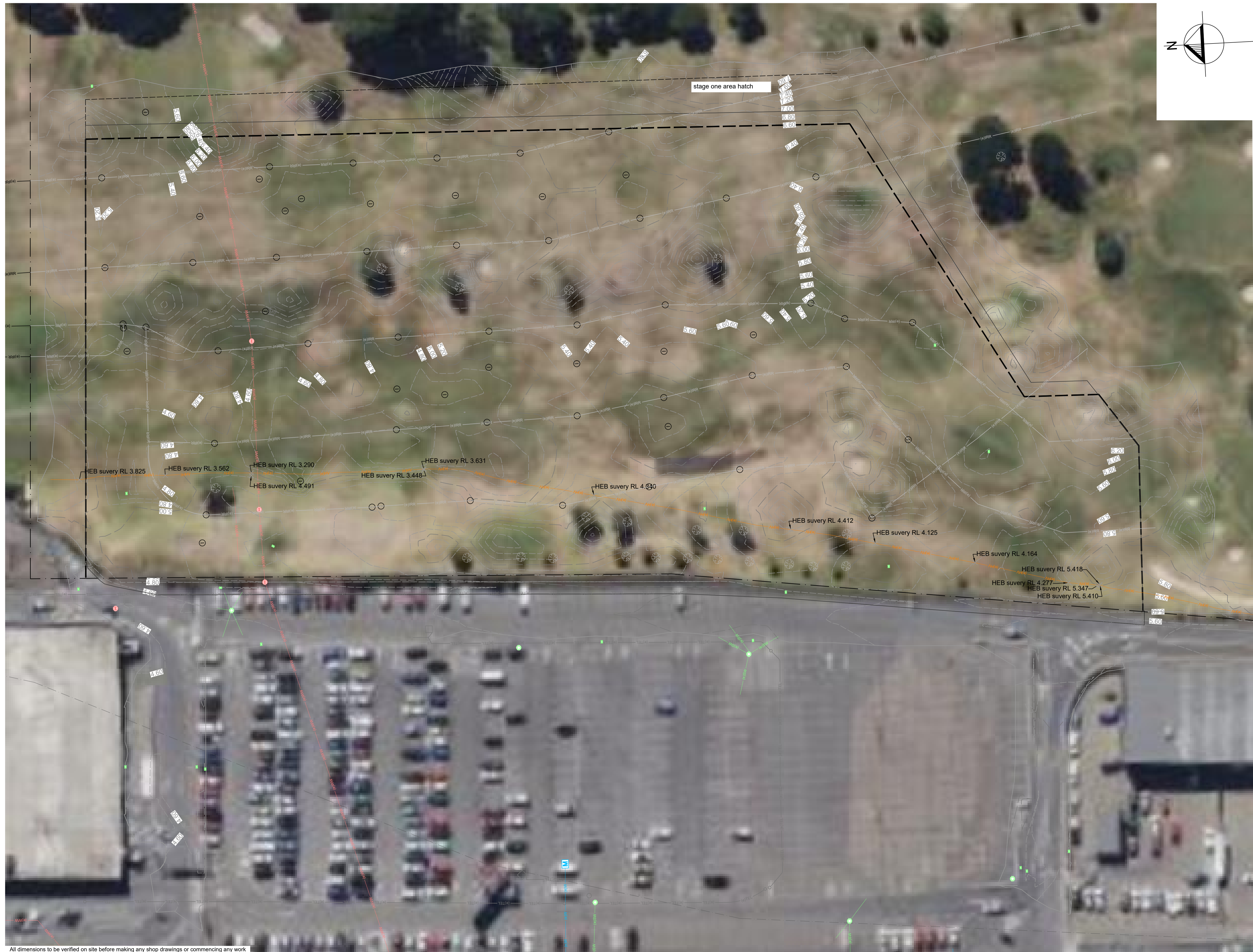
- 1 The contractor shall obtain all applicable codes, licenses, standards, specifications, etc. which are necessary to perform the proposed work at no additional cost to the owner.
- 2 Construction specifications have been issued with this project and must be used in conjunction with these drawings. Specifications take precedence over drawings if there is a discrepancy between them.
- 3 The contractor shall maintain one copy of the current and approved construction plans, specifications, resource consent and building consent at the job site at all times.
- 4 The contractor shall notify the Design Engineer immediately upon discovering any conflicts or other problems in conforming to the approved construction drawings, specifications or details for any element of the proposed improvements prior to proceeding with its construction.
- 5 Offsite and adjacent site data is for information purpose only.
- 6 Survey Information provided by Real Time Survey. Coordinates are in terms of NZGD 2000 Wellington Circuit. Levels are in terms of New Zealand Vertical Datum 2016.
- 7 Proposed site plan designed by Holmes NZ LP with input from the Client
- 8 Contractor shall reference "Miramar Golf Club Redevelopment" Geotechnical Report by PDP, dated 08/06/2023 as well as "WIAL Golf Course Carpark Investigation" by GHD, dated 28/02/2024.
- 9 Access to all adjacent properties and facilities shall be maintained at all times.
- 10 If hazardous material or suspect material is encountered the contractor shall notify the Client, Project Manager, and Design Engineer before continuing work.
- 11 All existing underground utility information (public and private) is indicative only and shown according to the best information available to the Design Engineer. The contractor shall contact all utility owners prior to beginning excavation or site grading. It shall be the contractor's responsibility for locating and protecting all utilities during construction and for coordinating with the appropriate utility company for any utility crossings required.
- 12 The contractor shall be responsible for the coordination of the installation or relocation of all utilities above and below grade (water, wastewater, stormwater, street lights, gas, electric, telecommunications, etc.).
- 13 Permission for any contractor or client proposed use, disturbance or access of offsite property, permanent or temporary, shall be obtained by the contractor in advance of the work.
- 14 The contractor shall provide written copy of any agreement or permit to use offsite property to the client prior to any use. The contractor shall not obligate the client to any stipulations unless the client becomes a party to the agreement.
- 15 Property boundaries shall be clearly indicated in order to delineate allowable limits of construction. No offsite disturbance allowed without adjacent property owner approval.
- 16 Boundary lines and easements indicated hereon reflect information proved by PDP. This plan may not include all information of record.
- 17 All work located within the road reserve shall be in accordance with the latest edition of the Wellington City Council Code of Practice.
- 18 All site work to be in accordance with the New Zealand Building Code and all other relevant standards.
- 19 All abandoned water, wastewater, and stormwater mains, manholes, stubs and accessories shall be abandoned per Wellington City Council specifications.
- 20 The contractor shall provide all required temporary traffic control in accordance with Council and NZTA standards.
- 21 Contractor shall be responsible for temporary erosion and sediment control during construction.
- 22 Contractor to check all set out dimensions and coordinate with the appropriate discipline.
- 23 Retaining walls designed by others.
- 24 Retaining wall elevations indicated are at the maximum wall height point of occurrence.
- 25 All landscaping and revegetation requirements by others.
- 26 All areas disturbed by construction and not paved at the completion of construction shall be reinstated to original conditions.
- 27 Dimensions shown on plans are horizontal distances as measured from centre of manhole to centre of manhole or from centre of waterline fitting to centre of fitting. These may vary due to field conditions.
- 28 Slope information provided for wastewater or stormwater pipe is calculated from centre of structure to centre of structure.
- 29 Existing water and wastewater service shutoffs shall be coordinated with existing customers and Council to minimize interruption of services.
- 30 Existing asphalt pavement shall be straight saw cut when access to underground utilities is required and to adjoin new asphalt pavement. Tack coat shall be applied to all exposed surfaces, including saw cuts, potholes, trenches and asphalt overlays. Refer to specification.
- 31 Contactor shall adjust lid levels of all manholes, valve covers, and rodding eyes to finished grade.

All dimensions to be verified on site before making any shop drawings or commencing any work

The copyright of this drawing remains with Holmes NZ LP

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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">B</th> <th style="width: 10%;">22/03/2024</th> <th style="width: 10%;">JXA</th> <th style="width: 70%;">Detail design</th> </tr> <tr> <th>Rev</th> <th>Date</th> <th>Appd</th> <th>Reason</th> </tr> </table>	B	22/03/2024	JXA	Detail design	Rev	Date	Appd	Reason								
B	22/03/2024	JXA	Detail design													
Rev	Date	Appd	Reason													
								<p><b>147103.30 C00-01</b></p>	<p><b>B</b></p>							





notes:

1. Refer to drawing C00-01 for project notes.
2. This drawing set contains colour. All reproduction to be in colour.

legend:

- Contours major (existing)
- Contours minor (existing)
- Site boundary (existing)
- Adjacent site boundary (existing)
- ⊙ Wastewater MH (existing)
- ⊙ Stormwater MH (existing)
- ⊙ Stormwater sump (existing)
- ⊙ Water meter (existing)
- Stormwater pipe (existing)
- Wastewater pipe (existing)
- Water pipe (existing)
- Power (existing)
- Irrigation lines (existing)
- ⊙ Tree (existing)

All dimensions to be verified on site before making any shop drawings or commencing any work

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A	22/03/2024	JA	Detail design

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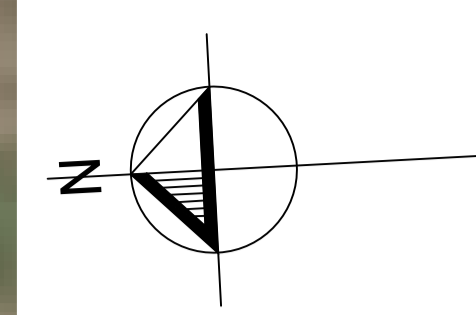
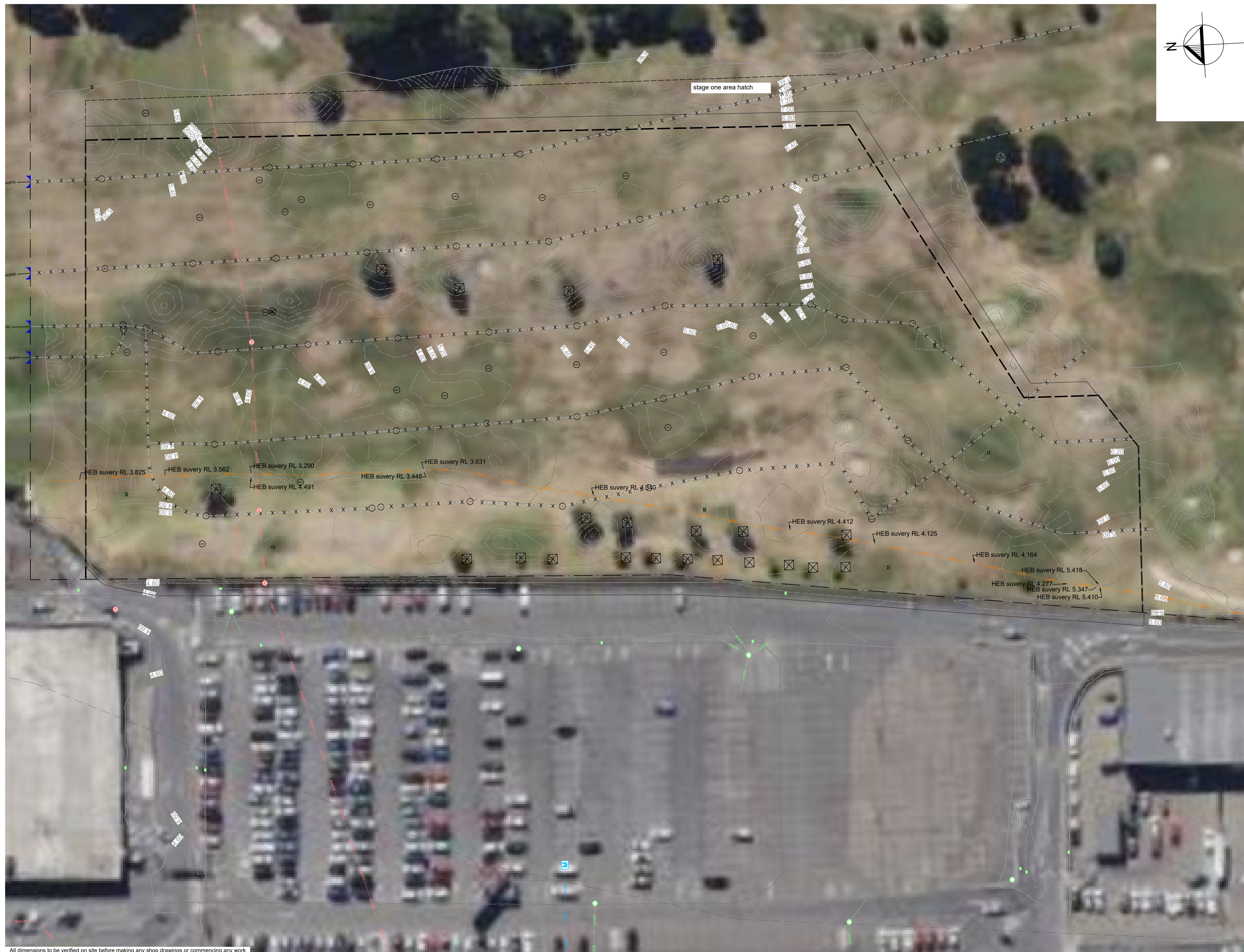
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WIAL-UNCOVERED CARPARK  
WELLINGTON

Sheet Title  
existing conditions  
plan

Drawn	DRL	Scale	1:400	(at A1)
Filename	147103.30 M-P-final levels.dwg			
Job No	Sheet No	Rev		
147103.30	C11-01	A		





- notes:
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- legend:
- Contours major (existing)
  - Contours minor (existing)
  - Site boundary (existing)
  - Adjacent site boundary (existing)
  - Wastewater MH (existing)
  - Stormwater MH (existing)
  - Stormwater sump (existing)
  - Water meter (existing)
  - Stormwater pipe (existing)
  - Wastewater pipe (existing)
  - Water pipe (existing)
  - Power (existing)
  - Irrigation lines (existing)
  - └─┘ End cap (proposed)
  - x x x x x Demolish existing services
  - Sump to be removed
  - Tree to be removed

All dimensions to be verified on site before making any shop drawings or commencing any work

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Rev	Date	Appd	Reason
A	22/03/2024	JA	Detail design

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**WIAL-UNCOVERED CARPARK  
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Sheet Title  
**stage one  
existing conditions  
demolishing plan**

Drawn	DRL	Scale	1:400	(at A1)
Filename	147103.30 M-P-final levels.dwg			
Job No	147103.30	Sheet No	C11-02	Rev
				A





notes:

1. Refer to drawing C00-01 for project notes.
2. This drawing set contains colour. All reproduction to be in colour.

legend:

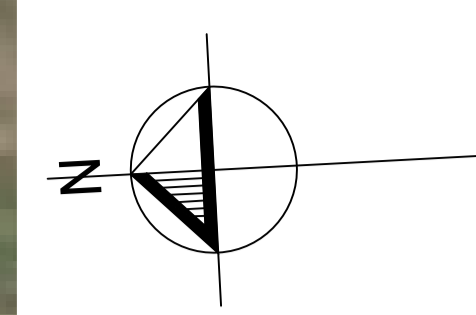
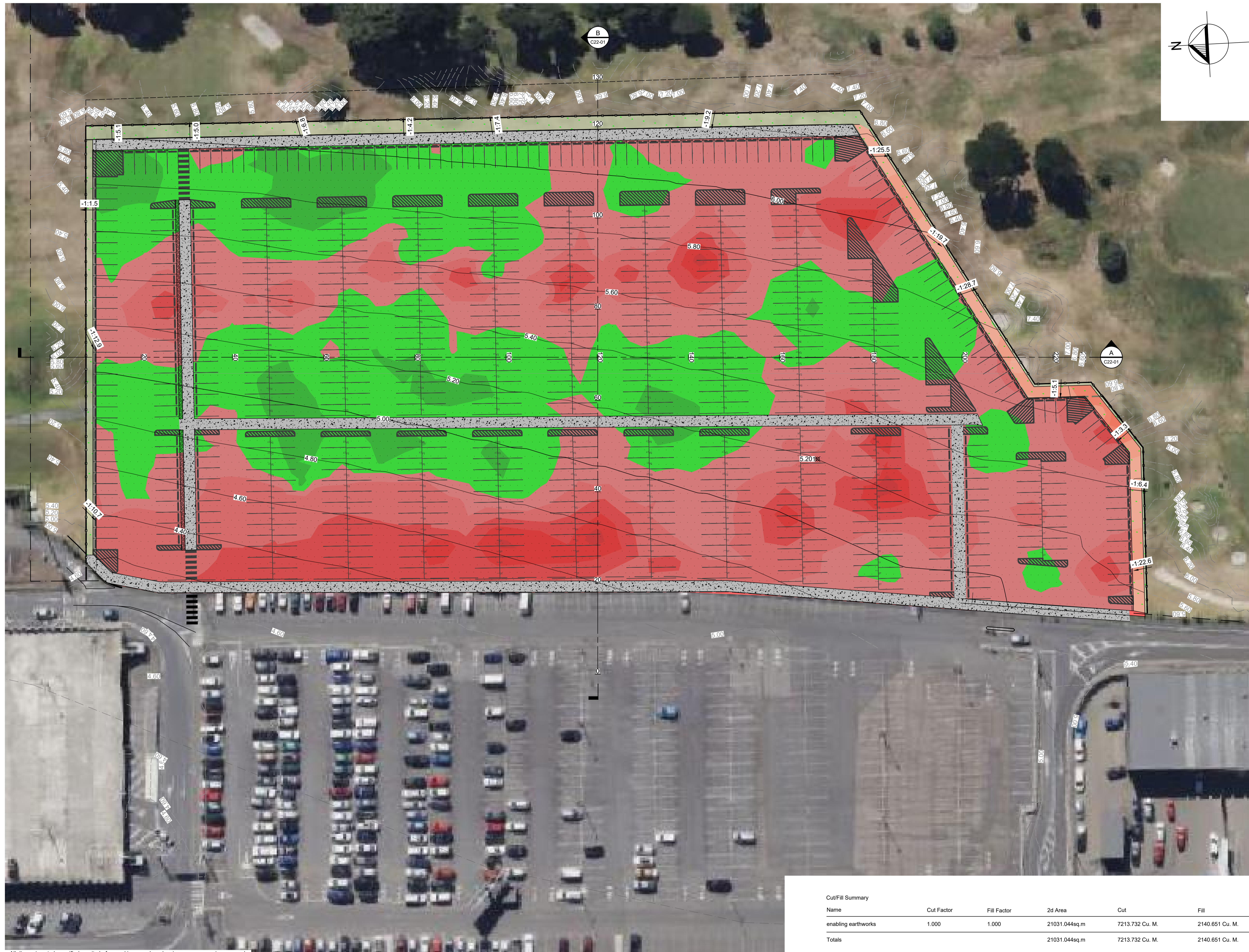
- Contours major (existing)
- Contours minor (existing)
- Contours major (proposed)
- Contours minor (proposed)
- Site boundary (existing)
- Adjacent site boundary (existing)
- Asphalt Traffic surface (Proposed)
- Concrete footpath (proposed)
- Landscaped areas, refer to Landscape Architect for details.
- Parking lines (Proposed)
- Parking numbers (Proposed)
- Parking bay lines (Proposed)
- 10.0:1 Earthworks (-gravity fall)
- Fence (proposed) refer to detail on C90-05

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A	22/03/2024	JXA	Detail design			stage one enabling earthworks contours and grading plan	Filename	147103.30 M-P-Earthworks.dwg	Job No	Sheet No	Rev
Rev	Date	Appd	Reason								
							147103.30 C20-01			A	





- notes:
1. Refer to drawing C00-01 for project notes.
  2. This drawing set contains colour. All reproduction to be in colour.
  3. Earthworks volumes based off final design levels -0.37m pavement build up.

- legend:
- Contours major (existing)
  - Contours minor (existing)
  - Contours major (proposed)
  - Contours minor (proposed)
  - Site boundary (existing)
  - Adjacent site boundary (existing)
  - Asphalt Traffic surface (Proposed)
  - Concrete footpath (proposed)
  - Landscaped areas, refer to Landscape Architect for details.
  - Parking lines (Proposed)
  - Parking numbers (Proposed)
  - Parking bay lines (Proposed)
  - 10:0:1 Earthworks (-gravity fall)
  - Fence (proposed) refer to detail on C90-05

Surface Analysis: Elevation Ranges			
Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1	Red	-3.838	-2.500
2	Red	-2.500	-2.000
3	Red	-2.000	-1.500
4	Red	-1.500	-1.000
5	Red	-1.000	-0.500
6	Red	-0.500	0.000
7	Green	0.000	0.500
8	Green	0.500	1.000

Cut/Fill Summary						
Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
enabling earthworks	1.000	1.000	21031.044sq.m	7213.732 Cu. M.	2140.651 Cu. M.	5073.080 Cu. M.<Cut>
<b>Totals</b>			<b>21031.044sq.m</b>	<b>7213.732 Cu. M.</b>	<b>2140.651 Cu. M.</b>	<b>5073.080 Cu. M.&lt;Cut&gt;</b>

All dimensions to be verified on site before making any shop drawings or commencing any work

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Rev	Date	Appd	Reason
B	22/03/2024	JXA	Detail design

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**WIAL-UNCOVERED CARPARK  
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Sheet Title  
**stage one  
enabling earthworks cut fill  
and volumes plan**

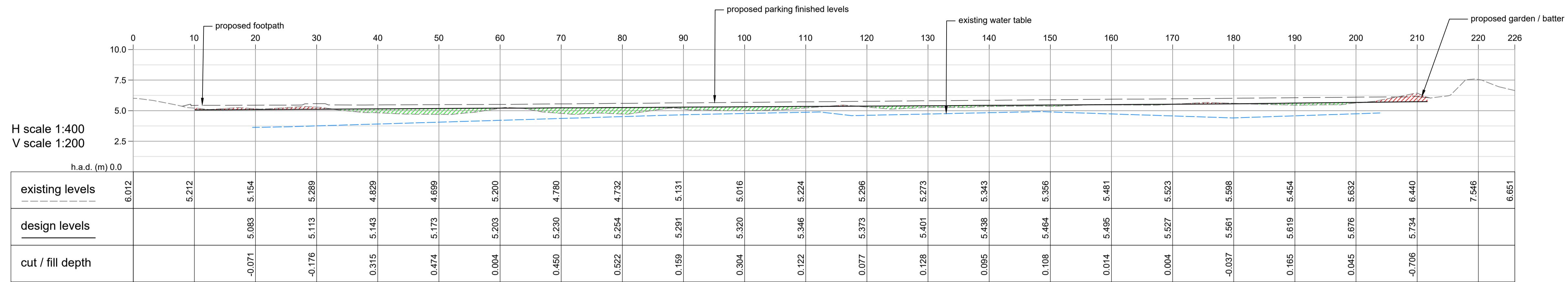
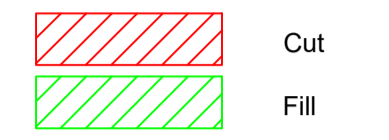
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Filename	147103.30 M-P-Earthworks.dwg			
Job No	Sheet No	Rev		
147103.30	C21-01	B		



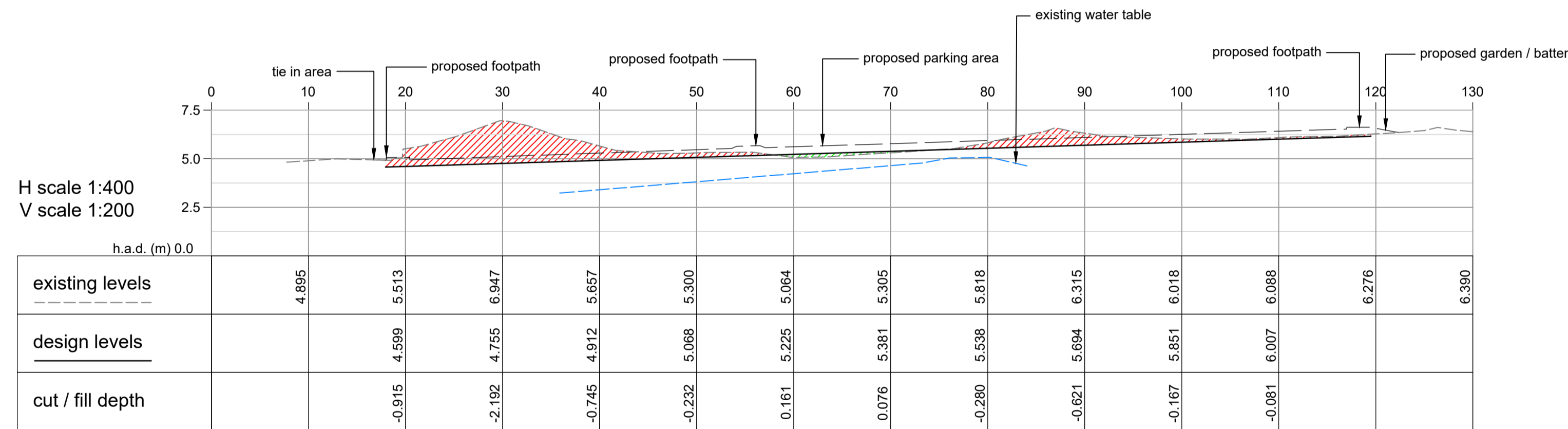
notes:

1. Refer to drawing C00-01 for project notes.
2.  This drawing set contains colour. All reproduction to be in colour.

legend:



A - cross section



B - cross section

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B	22/03/2024	JXA	Detail design
Rev	Date	Appd	Reason



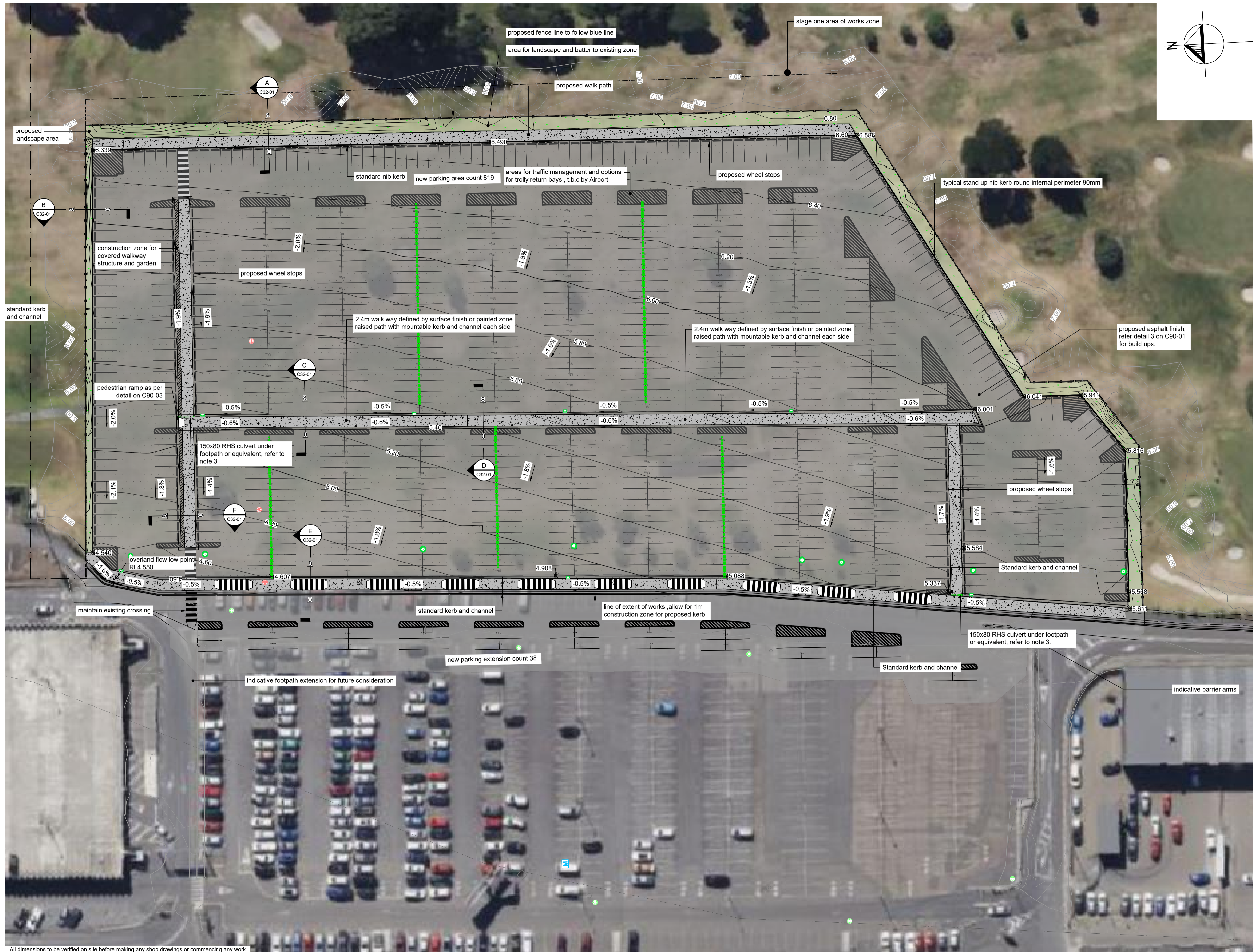
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WIAL-UNCOVERED CARPARK  
WELLINGTON

Sheet Title  
stage one  
enabling earthworks sections

Drawn	DRL	Scale	as shown	(at A1)
Filename	147103.30 M-P-Earthworks.dwg			
Job No	Sheet No	Rev		
147103.30	C22-01	B		





- notes:**
1. Refer to drawing C00-01 for project notes.
  2. This drawing set contains colour. All reproduction to be in colour.
  3. Refer C90-03 for Standard kerb and channel detail, Standard mountable kerb and channel detail, and Standard nib kerb detail.
  4. Install a 150x80mm galvanised RHS under pedestrian walkway to ensure flowline of kerb & channel is continued for overland flow.

- legend:**
- Contours major (existing)
  - Contours minor (existing)
  - Contours major (proposed)
  - Contours minor (proposed)
  - Site boundary (existing)
  - Adjacent site boundary (existing)
  - 3.6% → Trafficable surfaces (-gravity fall)
  - ⊗ 56.000 Spot height (design surface)
  - Stormwater MH (proposed)
  - Concrete channel drain (Proposed)
  - SW Standard back entry double sump (proposed), refer C90-02 for detail
  - Wastewater MH (existing)
  - Stormwater MH (existing)
  - Stormwater sump (existing)
  - Water meter (existing)
  - Asphalt Traffic surface (Proposed)
  - Concrete footpath (proposed)
  - Landscaped areas, refer to Landscape Architect for details.
  - Parking lines (Proposed)
  - Parking numbers (Proposed)
  - Parking bay lines (Proposed)
  - Pedestrian crossing (Proposed) refer C90-03 for details

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B	22/03/2024	JXA	Detail design

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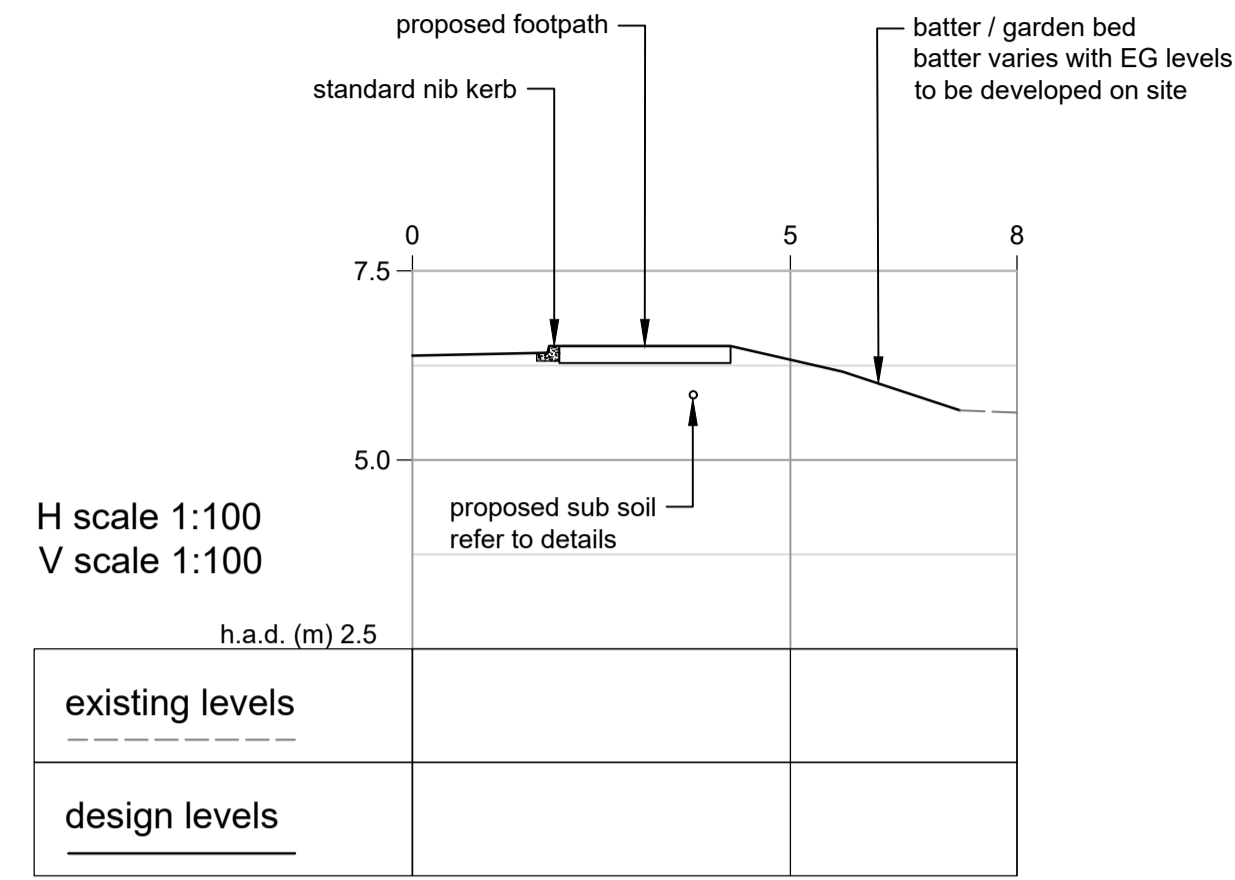
Sheet Title  
**stage one  
proposed surface finishes  
final contours and levels plan**

Drawn	DRL	Scale	1:400	(at A1)
Filename	147103.30 M-P-final levels.dwg			
Job No	Sheet No	Rev		
147103.30	C30-01	B		

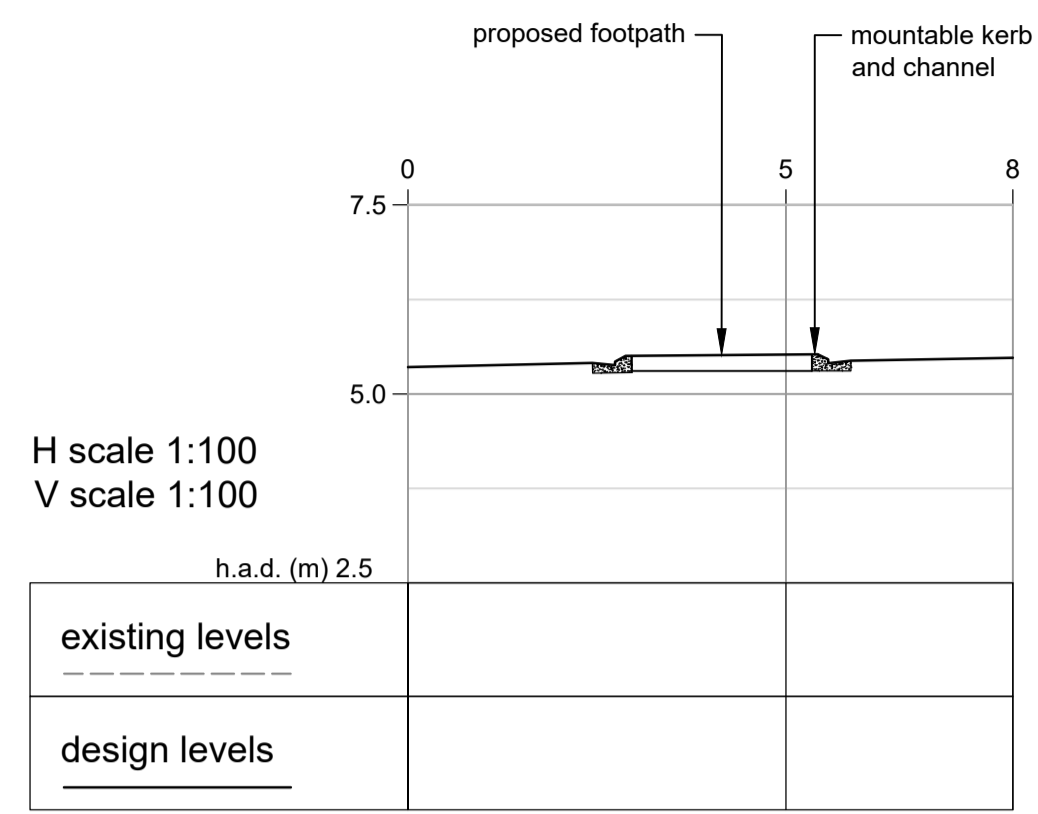


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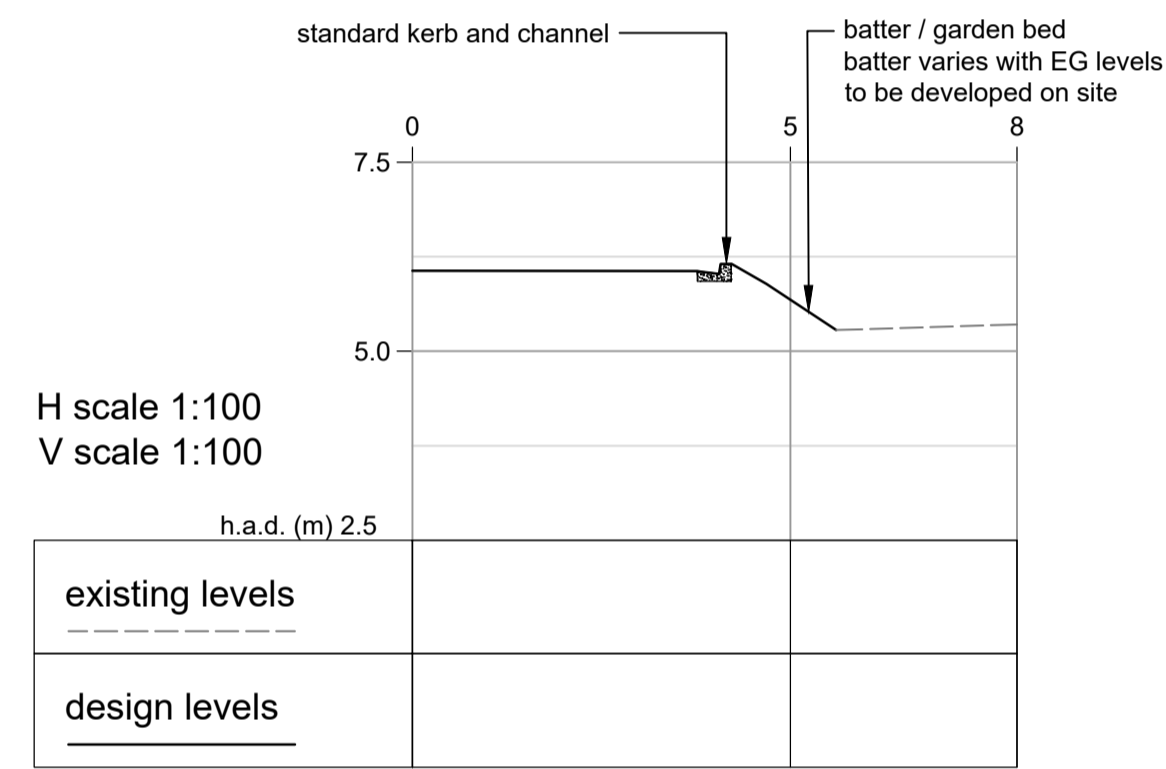
1. Refer to drawing C00-01 for project notes.
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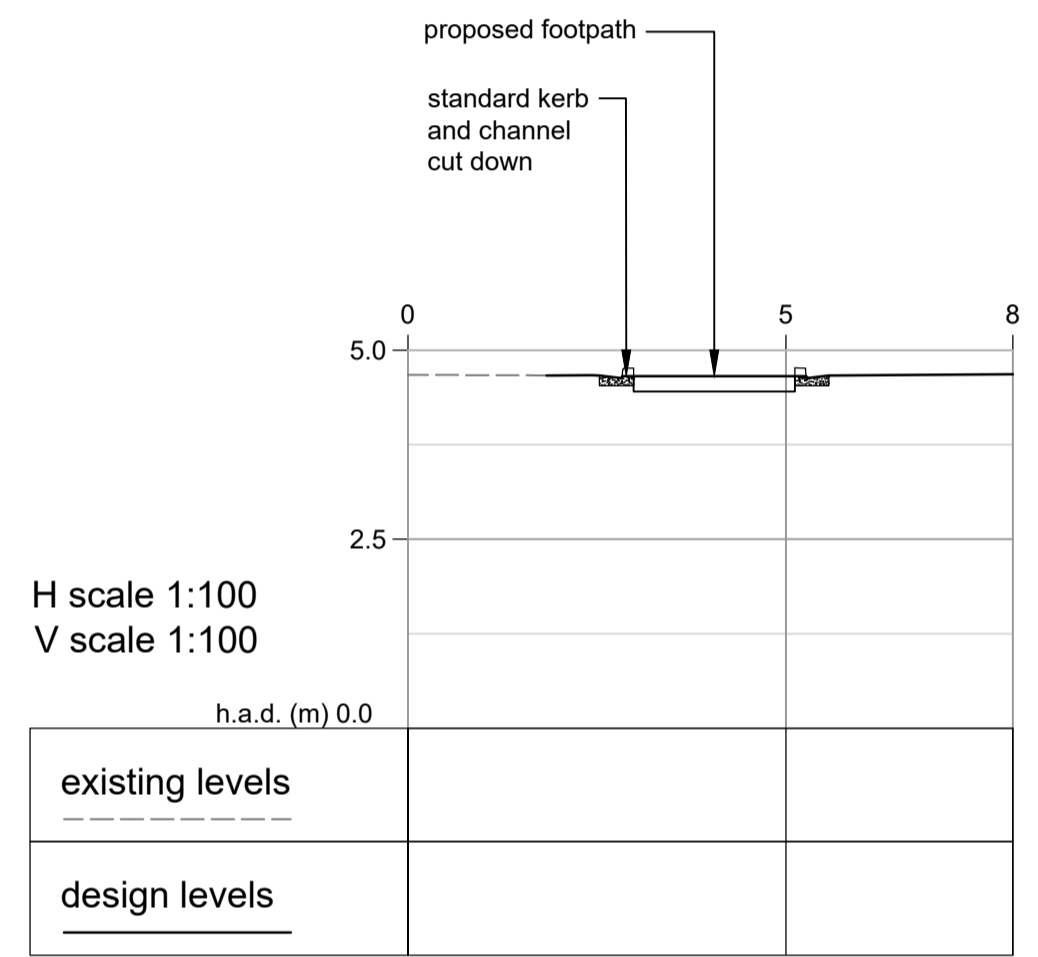
A - cross section



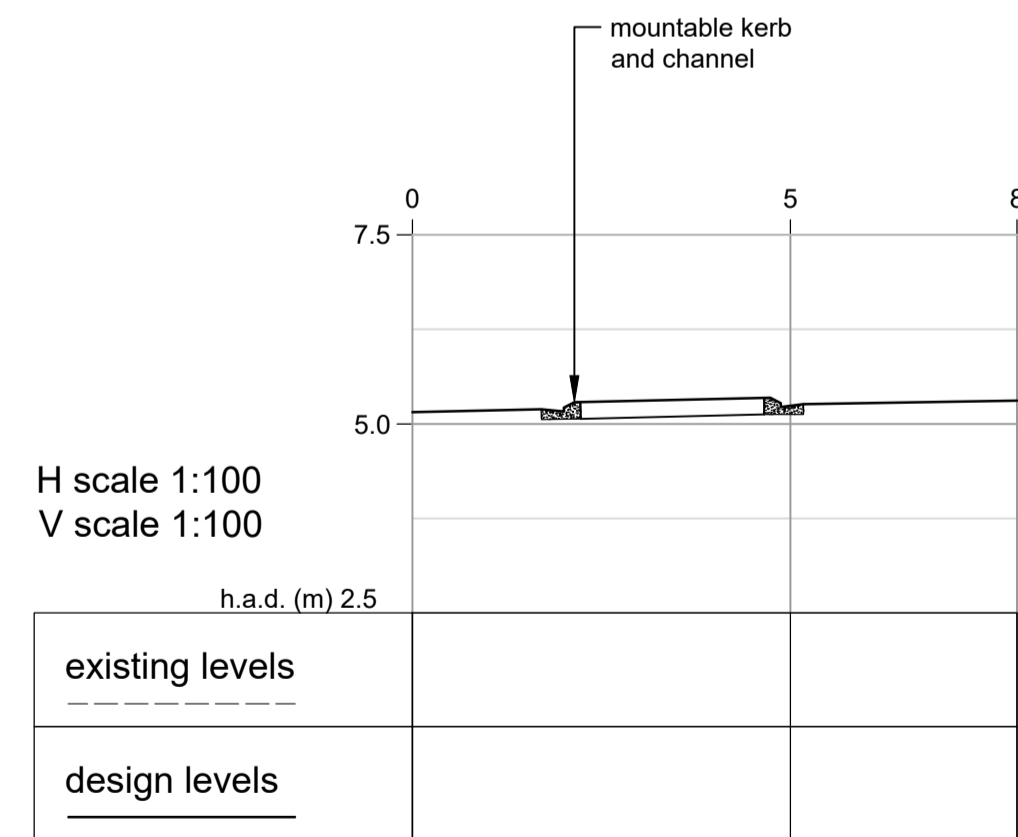
D - cross section



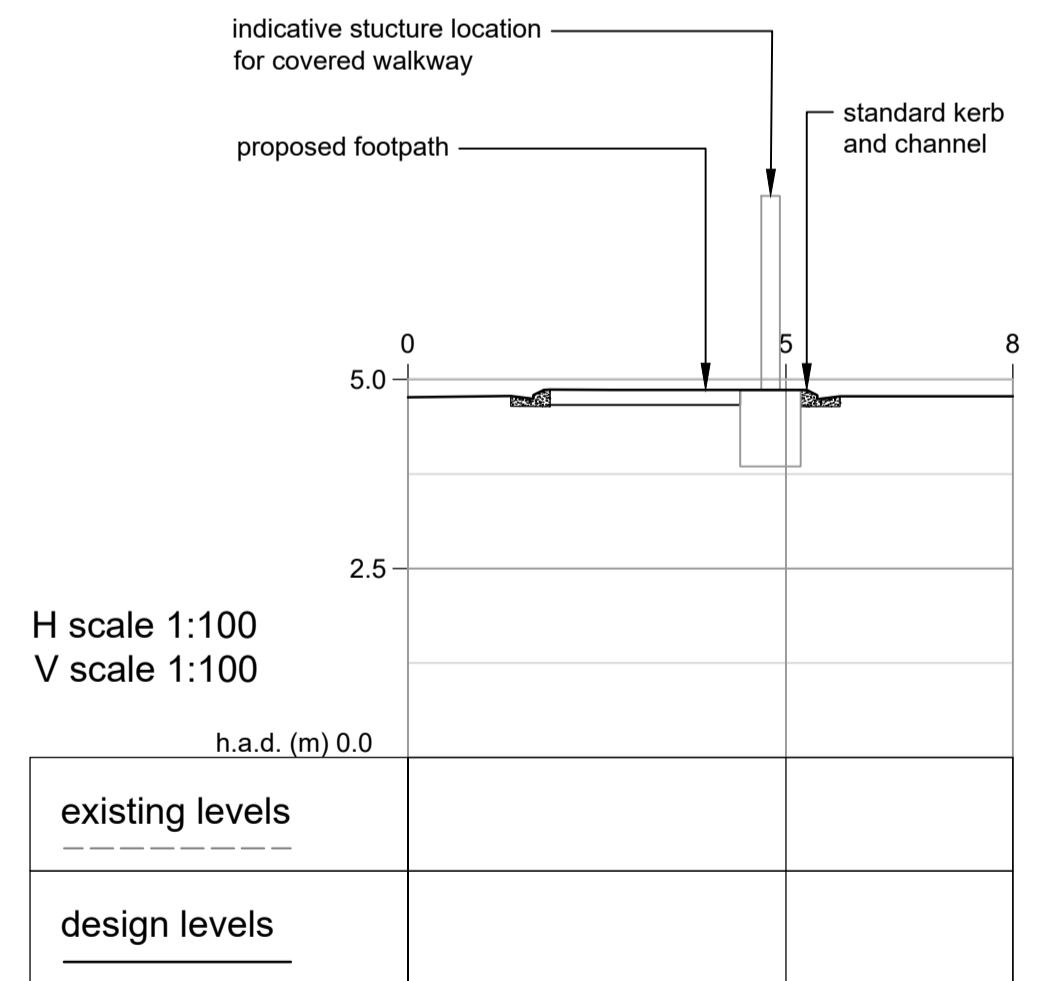
B - cross section



E - cross section



C - cross section



F - cross section

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Rev	Date	Appd	Reason



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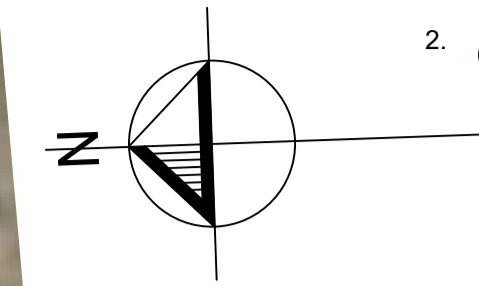
Sheet Title  
stage one  
sections

Drawn	DRL	Scale	as shown	(at A1)
Filename	147103.30 M-P-final levels.dwg			
Job No	Sheet No	Rev		
147103.30	C32-01	A		



notes:

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legend:

- Site boundary (existing)
- Adjacent site boundary (existing)
- Wastewater MH (existing)
- Wastewater MH (proposed)
- Stormwater MH (existing)
- Stormwater sump (existing)
- Stormwater MH (proposed)
- SW Standard back entry double sump (proposed), refer C90-02 for detail
- Fire hydrant (existing)
- Backflow preventer (existing)
- Stormwater pipe (existing)
- Wastewater pipe (existing)
- Water pipe (existing)
- Power (existing)
- Stormwater pipe (proposed)
- 1000 subsoil (proposed) Refer C90-03 for details.
- Overland flow path (proposed)
- Overland flow path (existing)
- Irrigation lines (existing)
- SW360 treatment device, refer to STORMWATER360 for details




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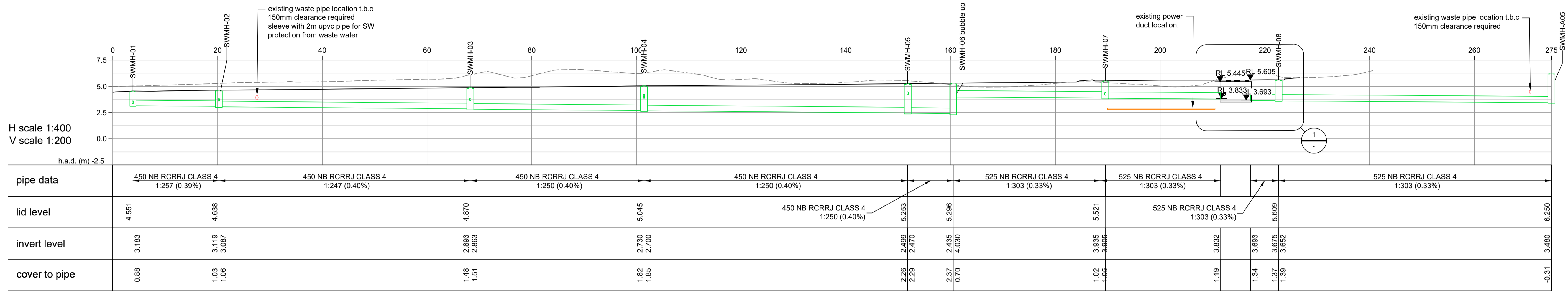
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<table border="1"> <thead> <tr> <th>Rev</th> <th>Date</th> <th>Appd</th> <th>Reason</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>22/03/2024</td> <td>JXA</td> <td>Detail design</td> </tr> </tbody> </table>						Rev	Date	Appd	Reason	B	22/03/2024	JXA	Detail design	stage one proposed overall services plan		Filename	147103.30 M-P-Services.dwg		Job No
Rev	Date	Appd	Reason																
B	22/03/2024	JXA	Detail design																
							Sheet No			Rev	B								

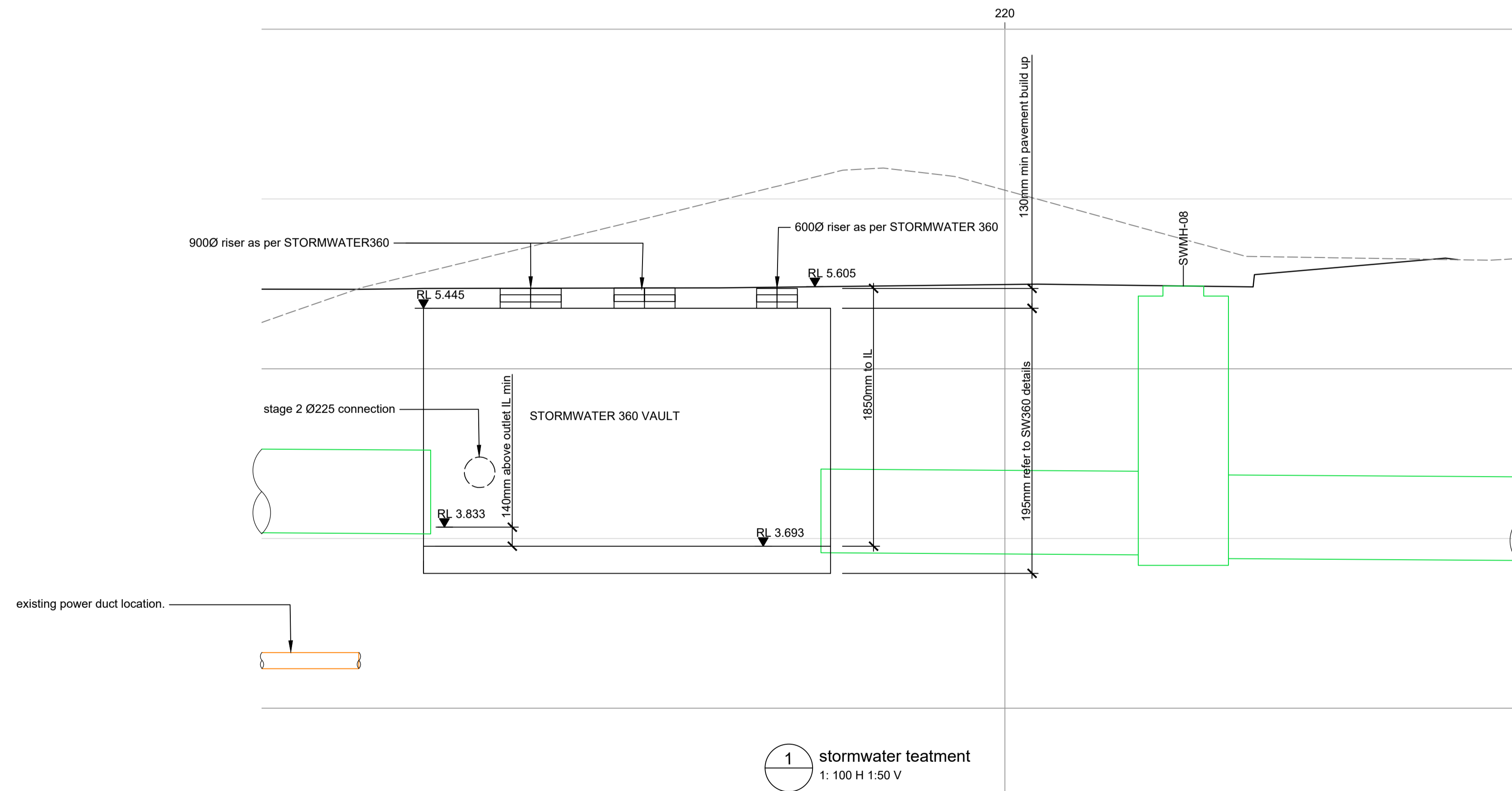


notes:

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SW 01 - longitudinal section



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B	22/03/2024	JXA	Detail design

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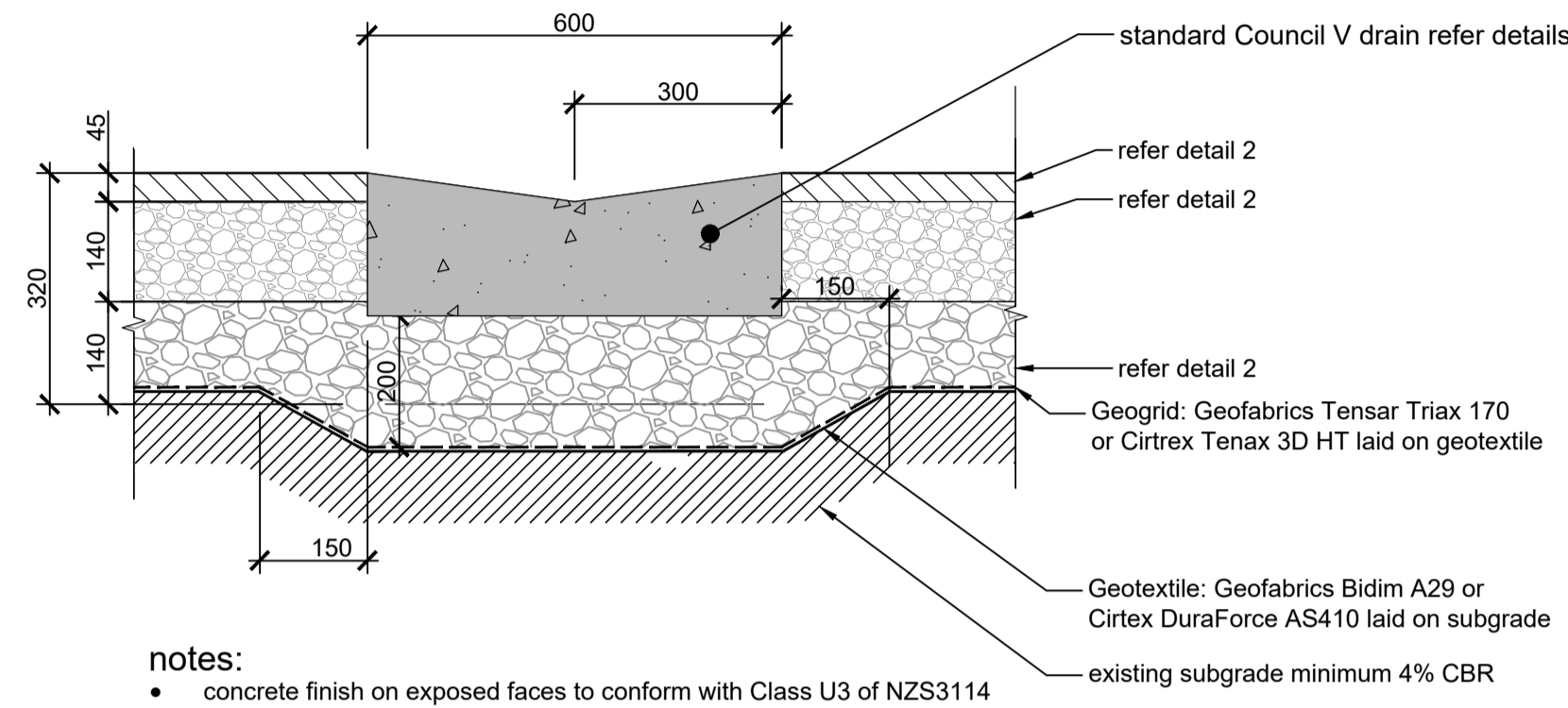
Sheet Title  
stage one  
proposed stormwater  
longitudinal sections

Drawn	DRL	Scale	as shown	(at A1)
Filename	147103.30 M-P-Services.dwg	Job No	Sheet No	Rev
147103.30 C51-01				B



notes:

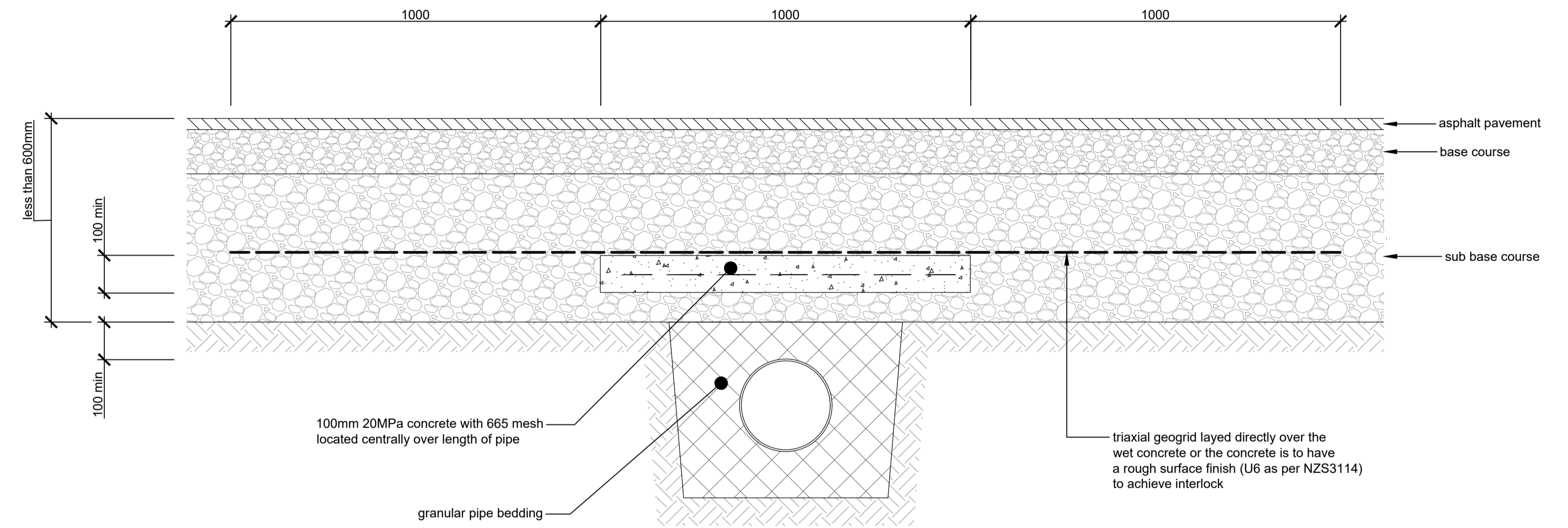
1. Refer to drawing C00-01 for project notes.
2.  This drawing set contains colour. All reproduction to be in colour.



notes:

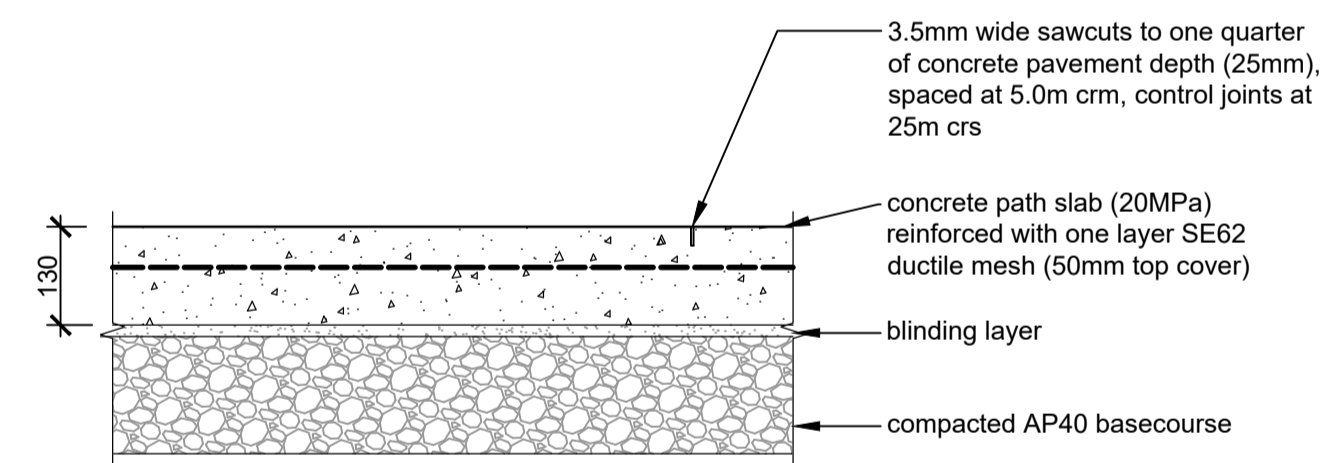
- concrete finish on exposed faces to conform with Class U3 of NZS3114
- existing subgrade minimum 4% CBR

1 Cast in situ concrete V-drain  
1: 10



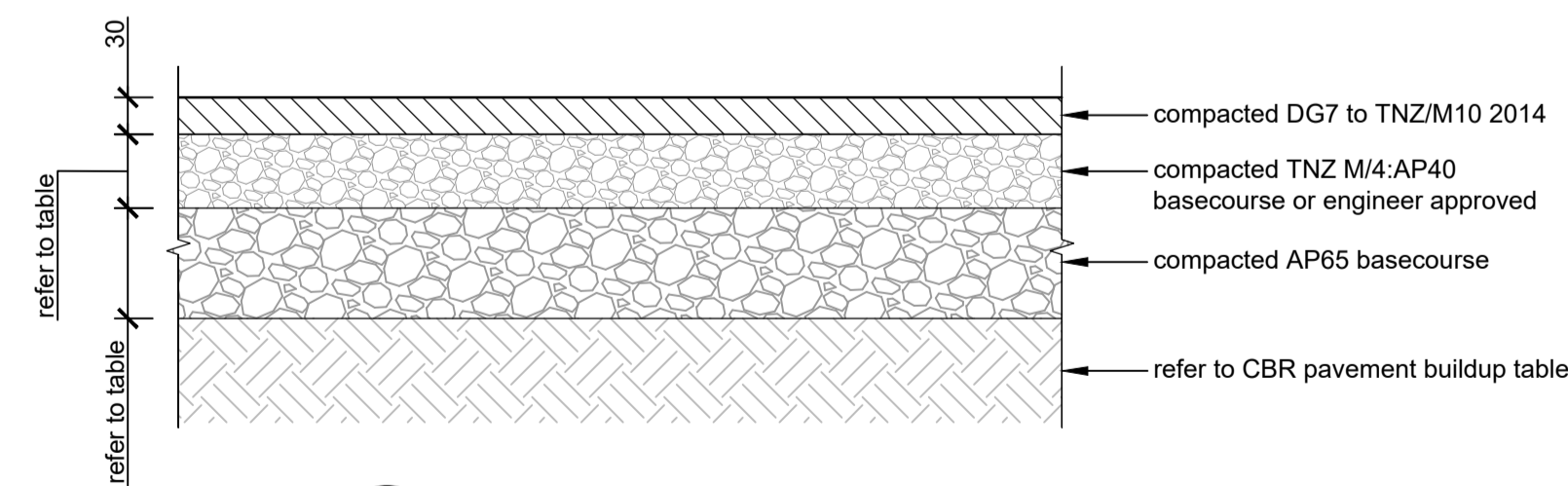
2 concrete capping detail  
1: 10

AC Pavement Buildup Table				
AC and Sub-base thickness (mm)				
	CBR (4%)	CBR (7%)	CBR (10%)	CBR (15%)
DG7	30	30	30	30
AP40	140	140	260	220
AP65	320	200		

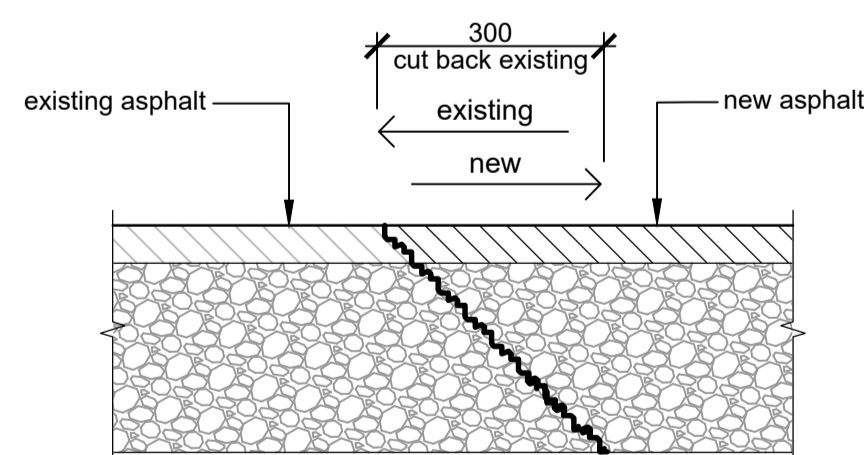


6 typical concrete footpath  
1: 10

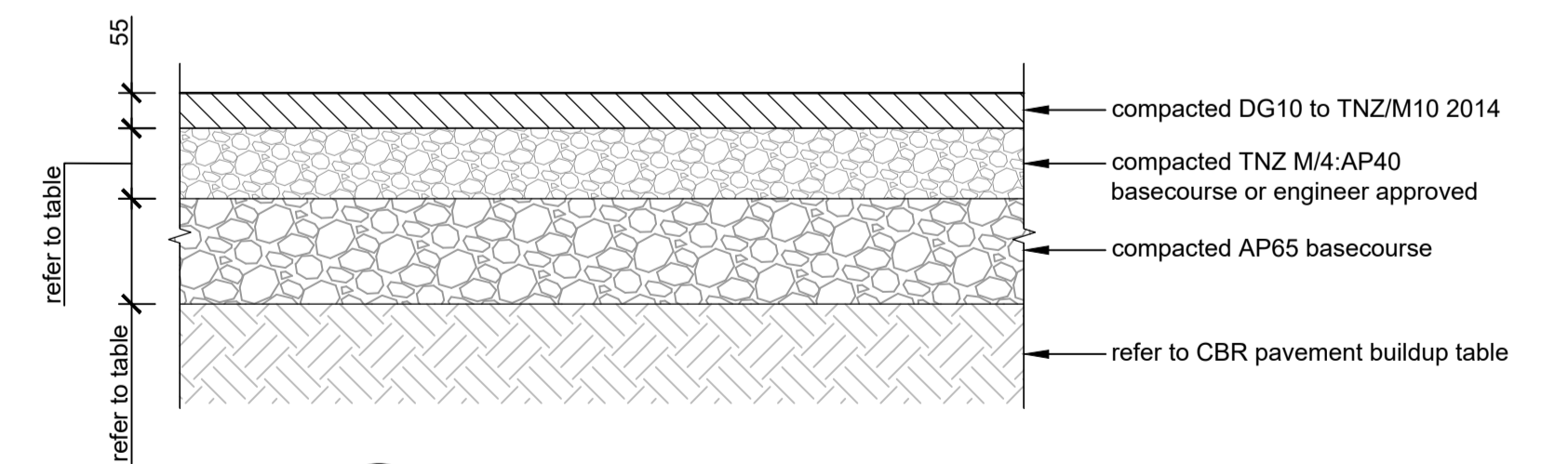
Heavy Vehicle Trafficable AC Pavement Buildup Table			
AC and Sub-base thickness (mm)			
	CBR (4%)	CBR (7%)	CBR (>7%)
DG10	55	55	55
AP40	160	160	160
AP65	380	220	200



3 typical asphalt build up  
1: 10



4 typical asphalt tie-in detail  
1: 10



5 typical build up for road widening - stage 2  
1: 10

All dimensions to be verified on site before making any shop drawings or commencing any work

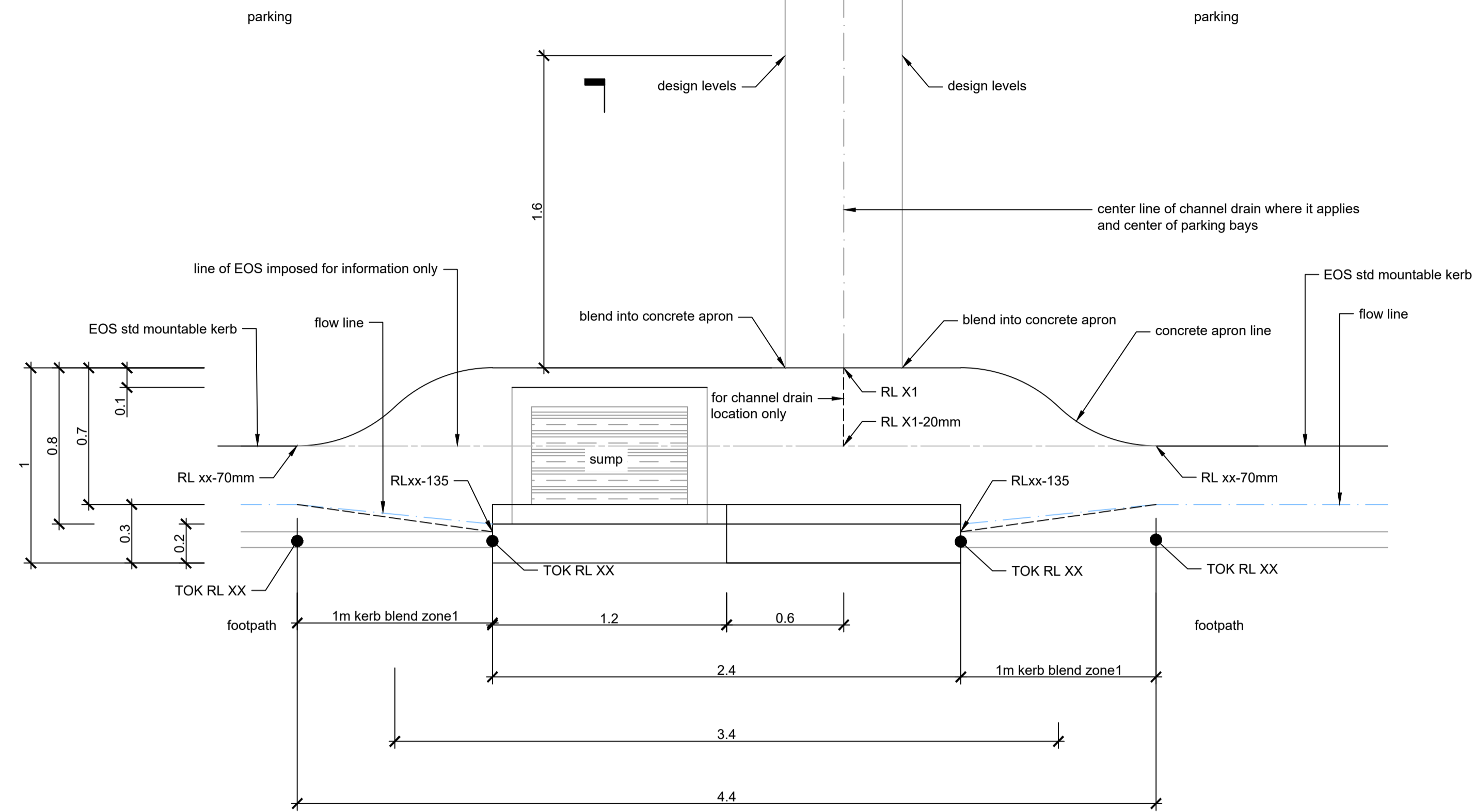
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						details		Filename 147103.30 M-P-Details.dwg	
						Job No		Sheet No	
						147103.30 C90-01		Rev	
								A	

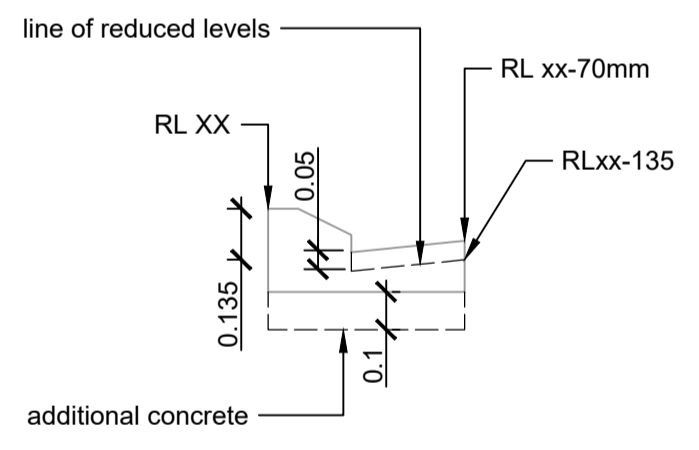
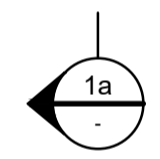


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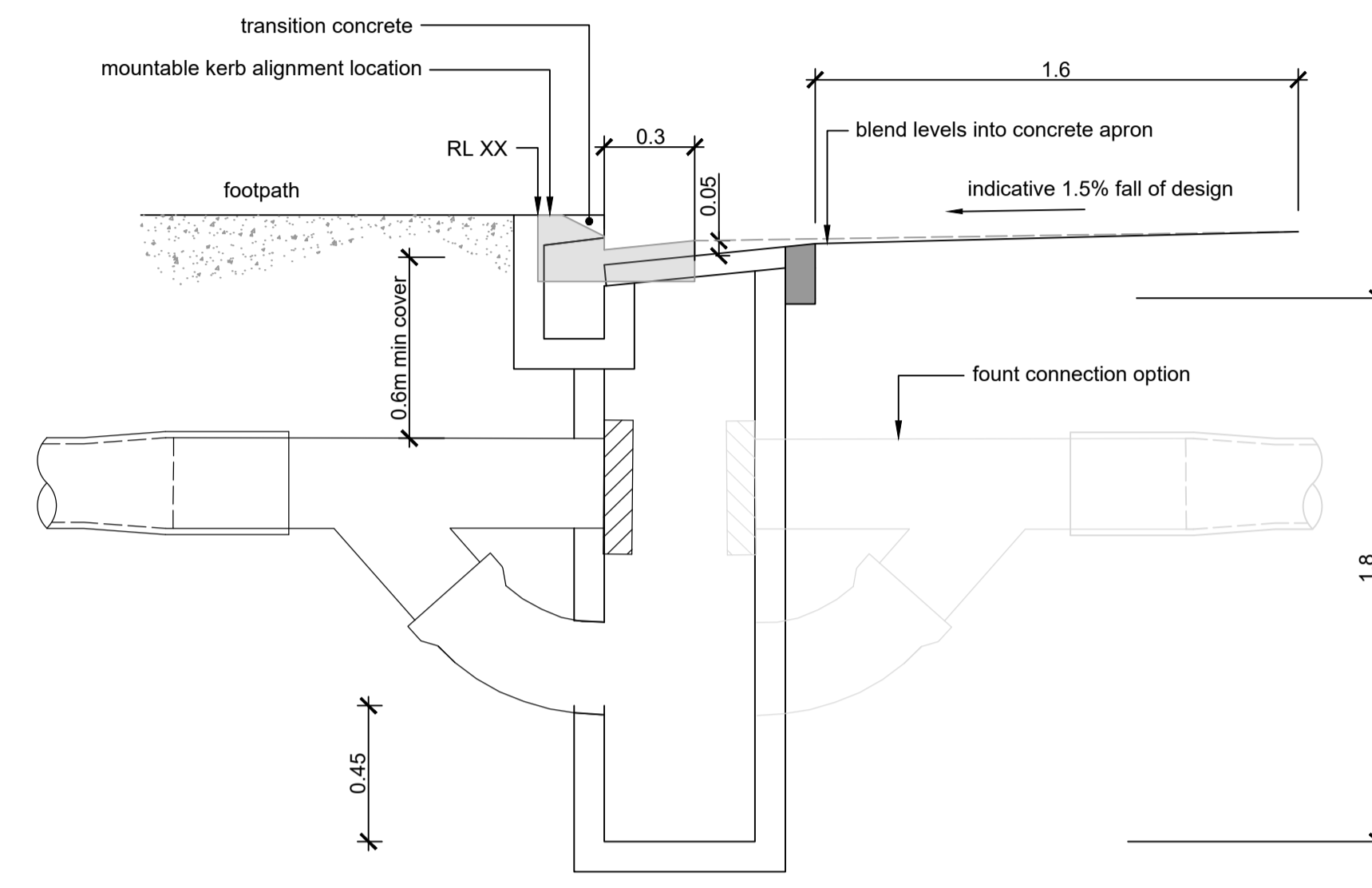
1. Refer to drawing C00-01 for project notes.
2. This drawing set contains colour. All reproduction to be in colour.
3. Refer to HUMES for MAX PIT product details.



1 HUMES MAX PIT plan view  
1:20



1a kerb set out  
n.t.s



1a section view  
1:20

**SURFACE WATER** Acceptable Solution E1/A51

**Figure 8: Type-one Surface Water Sump**  
Paragraph 3.7.2

**3.7.4** Inspection chambers or access chambers (see Figures 11 and 12) shall be provided where changes in both gradient and direction occur and where either is greater than 22.5°.

**3.7.5** Where the depth to the invert of the drain exceeds 1.0 m, an inspection chamber is not acceptable and an access chamber shall be used.

**3.7.6 Drain under buildings**  
Any drain laid under a building shall be run in a straight line from one side to the other.

**3.7.7** Access to a drain laid under a building shall be provided immediately outside the building. These points of access shall be located within 2.0 m of an exterior wall.

**3.7.8** Under a building the only acceptable inlets to a drain are from sealed roof-water downpipes. Access shall be provided to the drain via a sealed access point in the downpipe immediately above ground floor level.

**Figure 9: Type-two Surface Water Sump**  
Paragraph 3.7.2

**Figure 10: Typical Building Point**  
Paragraph 3.7.8

**38** September 1999 DEPARTMENT OF BUILDING AND HOUSING

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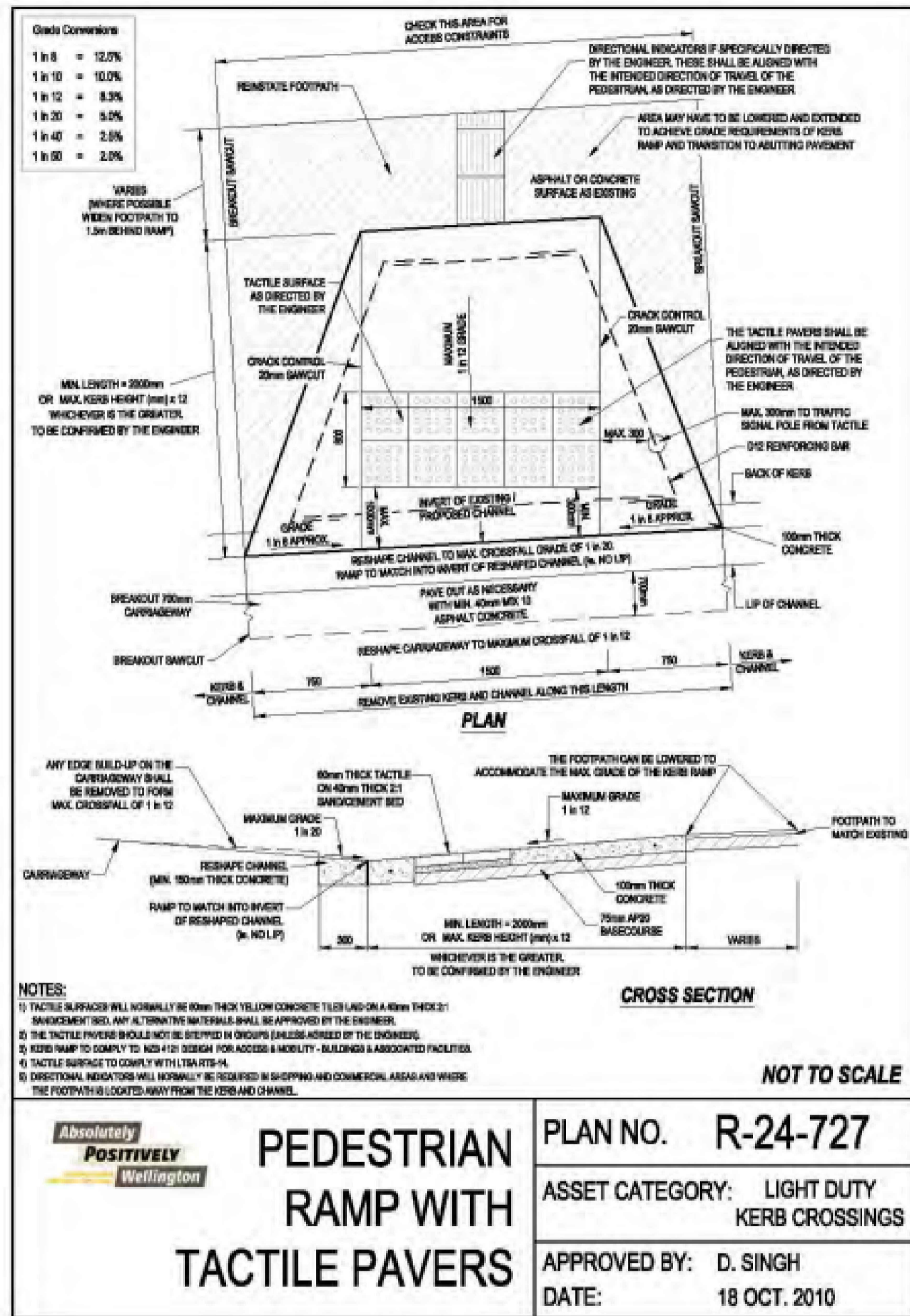
WIAL-UNCOVERED CARPARK  
WELLINGTON

Sheet Title  
details

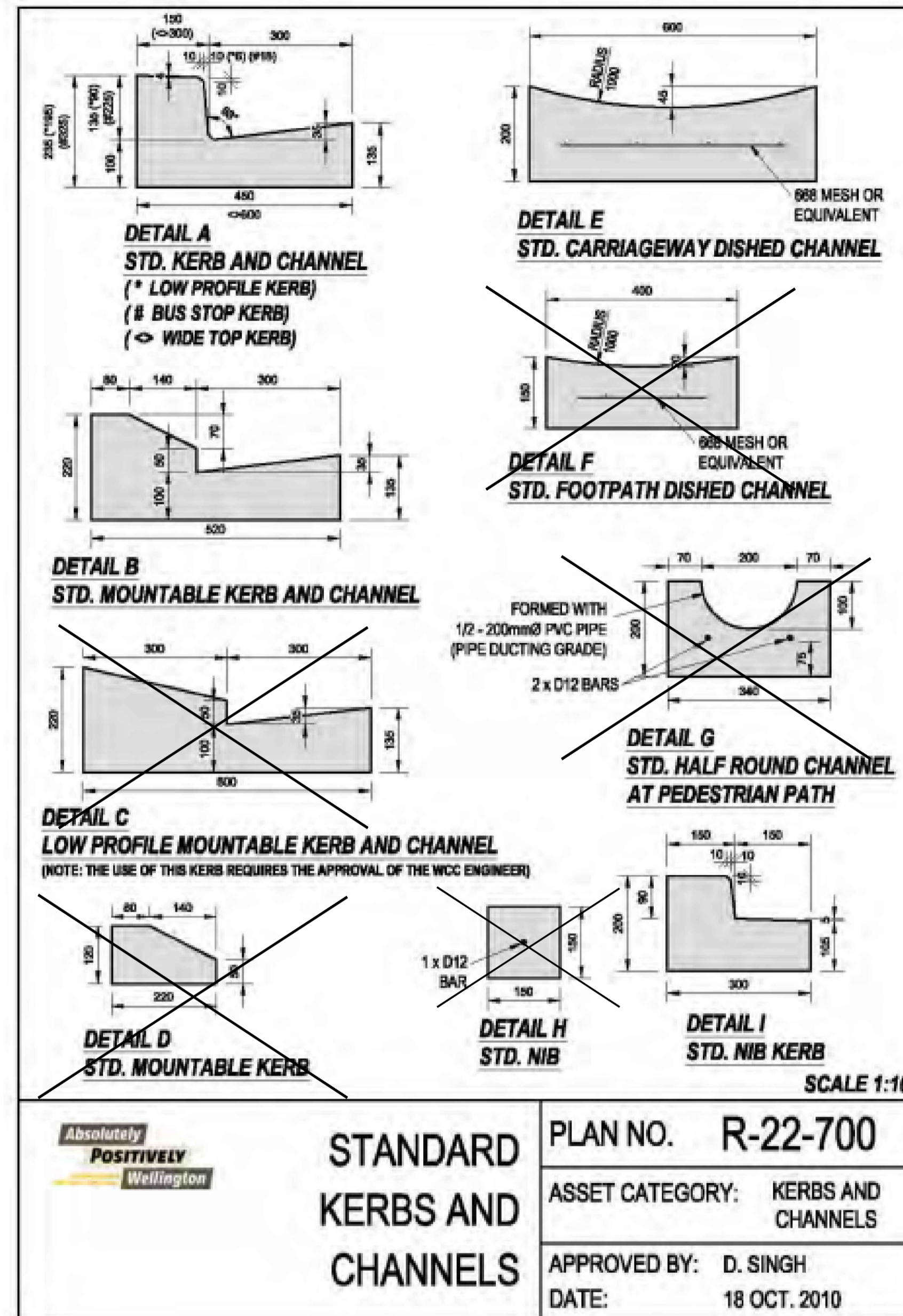
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Filename	147103.30 M-P-Details.dwg			
Job No	147103.30	Sheet No	C90-02	Rev
				A



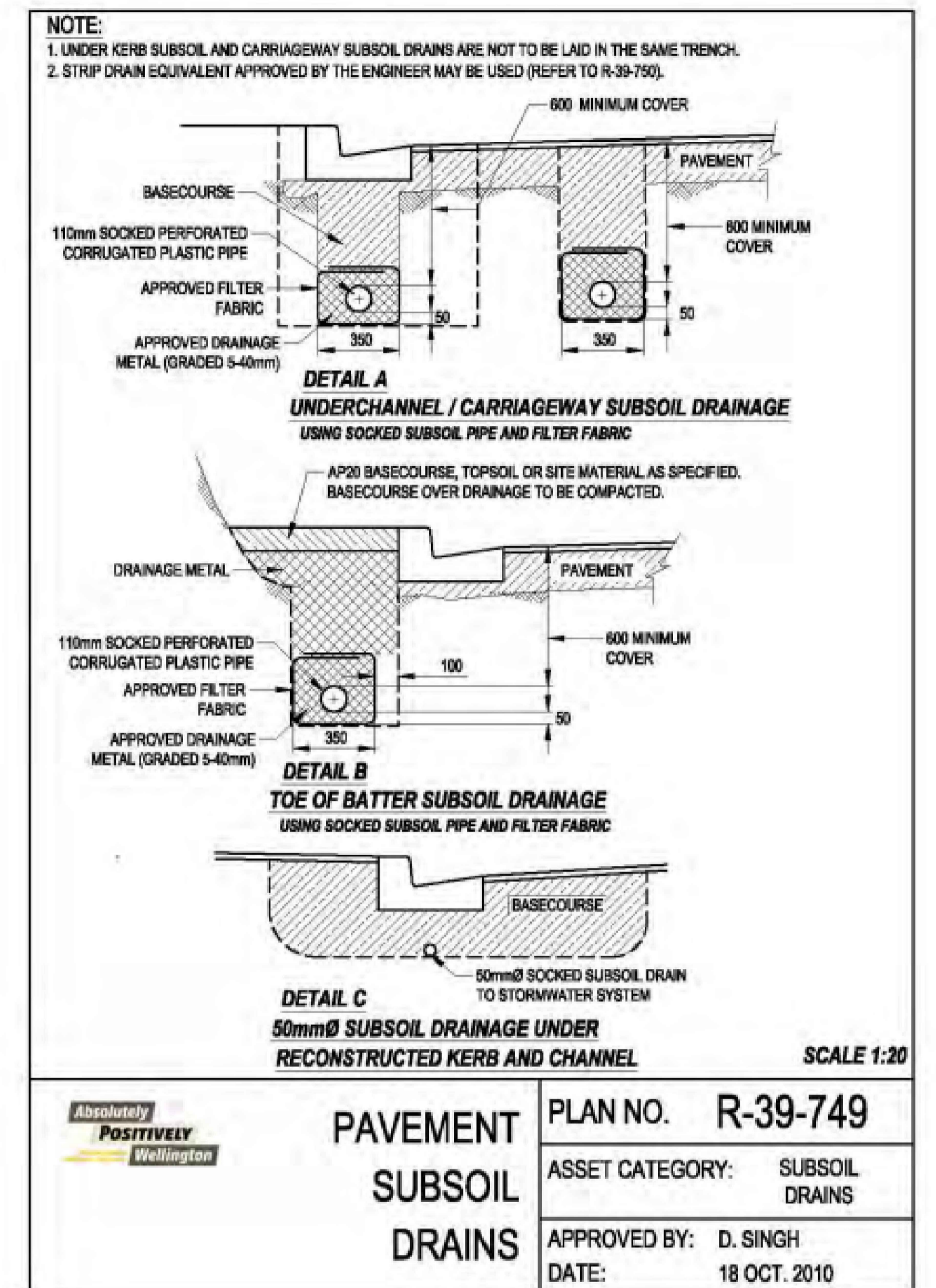
Drwg R -24-727 Pedestrian Ramp with Tactile Pavers



Drwg R -22-700 Standard Kerbs and Channels



Drwg R -39-749 Pavement Subsoil Drains



notes:

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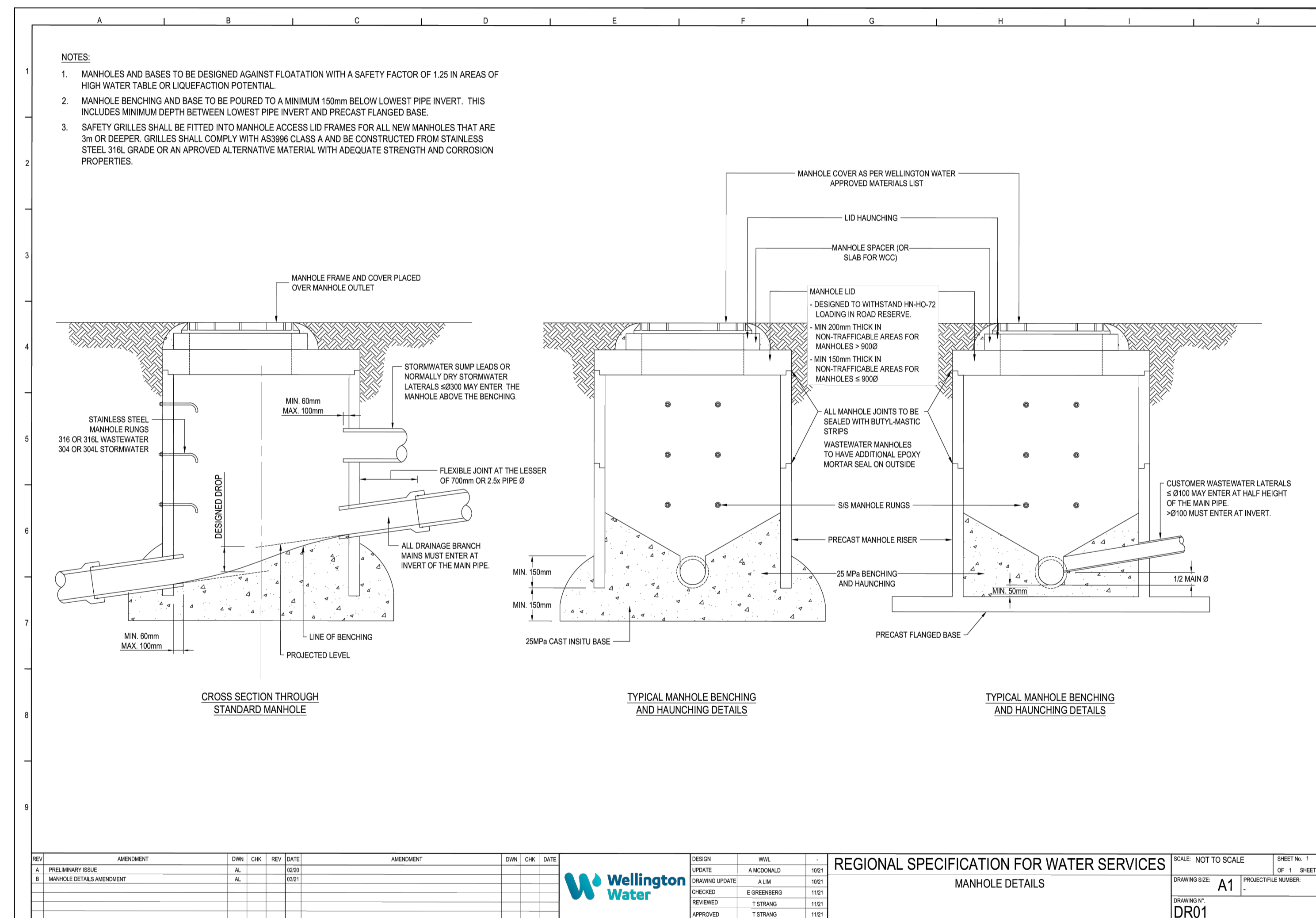
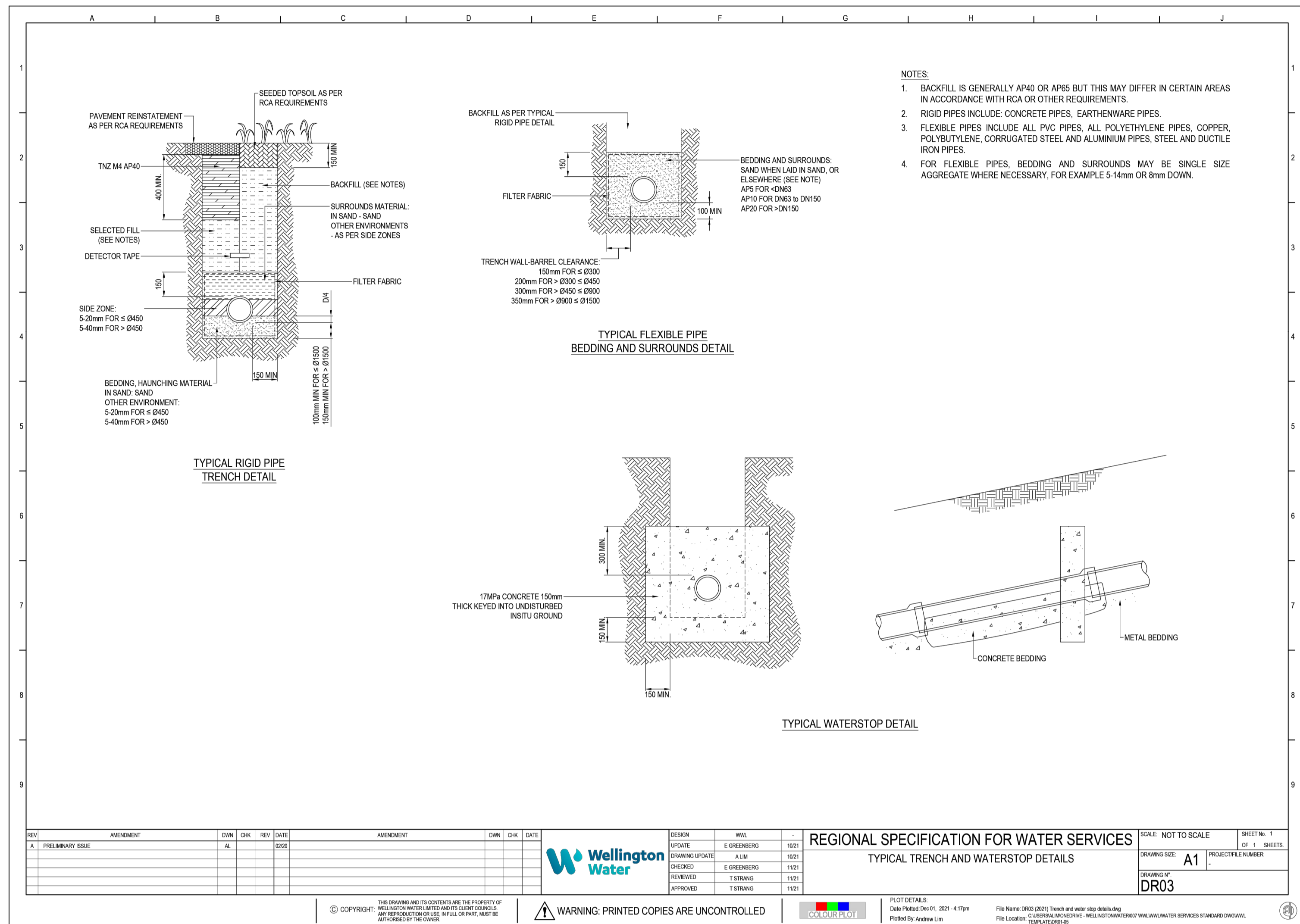
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147103.30	C90-03	A		





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Design	WEL	Rev	Date
UPDATE	E GREENBERG	1021	
DRAWING UPDATE	A LM	1021	
CHECKED	E GREENBERG	1101	
REVIEWED	T STRANG	1101	
APPROVED	T STRANG	1101	



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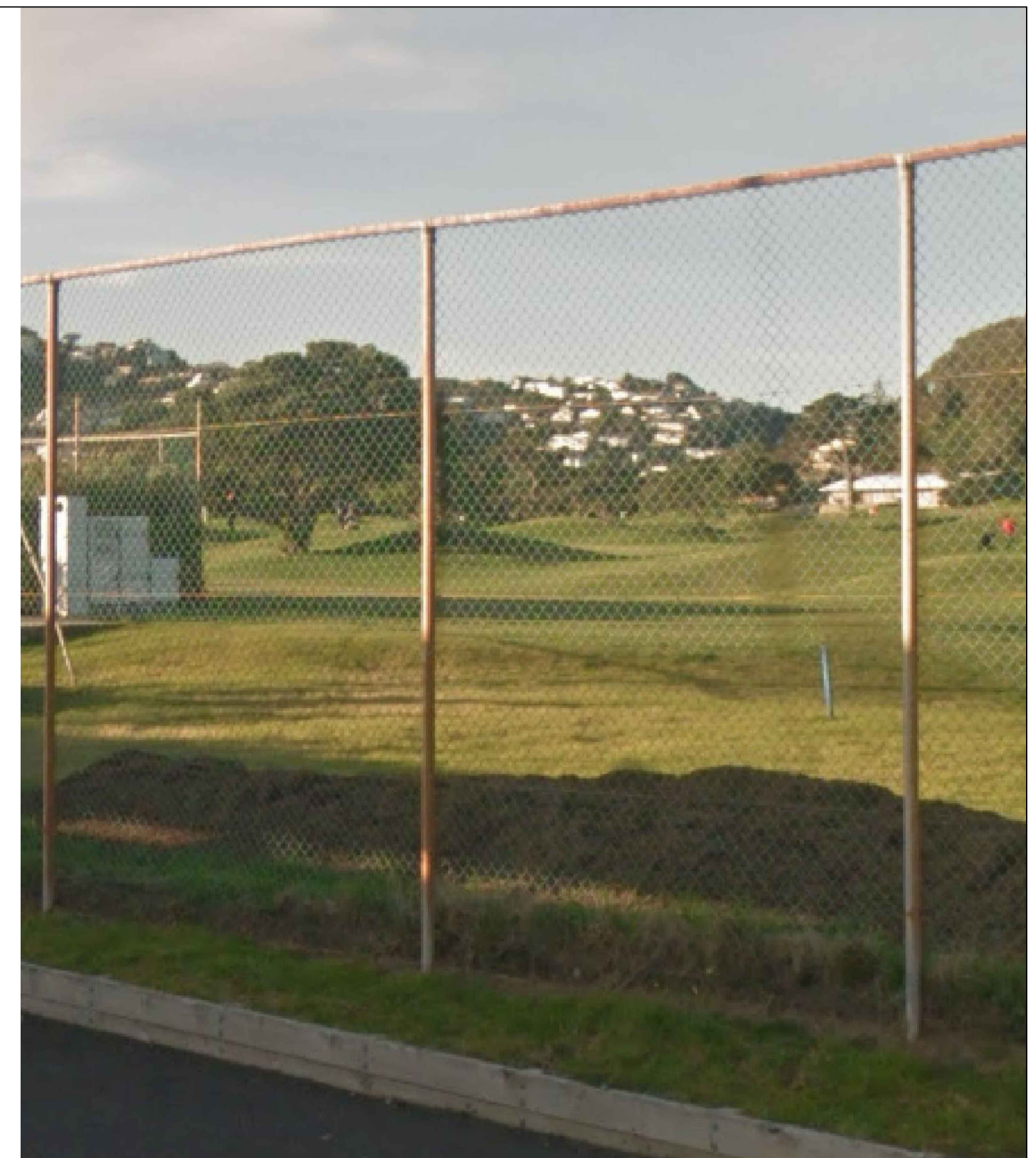
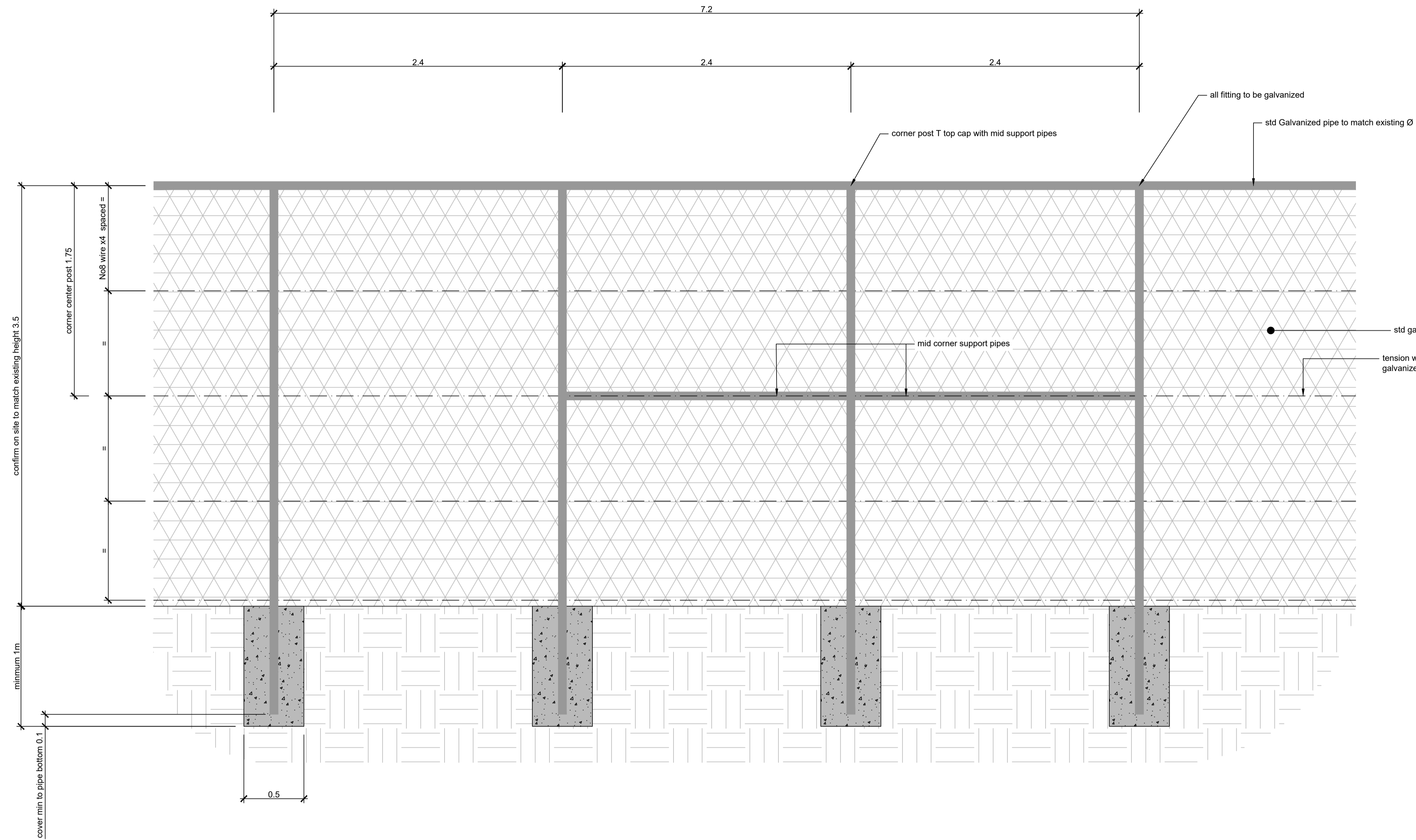
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WELLINGTON**

Sheet Title  
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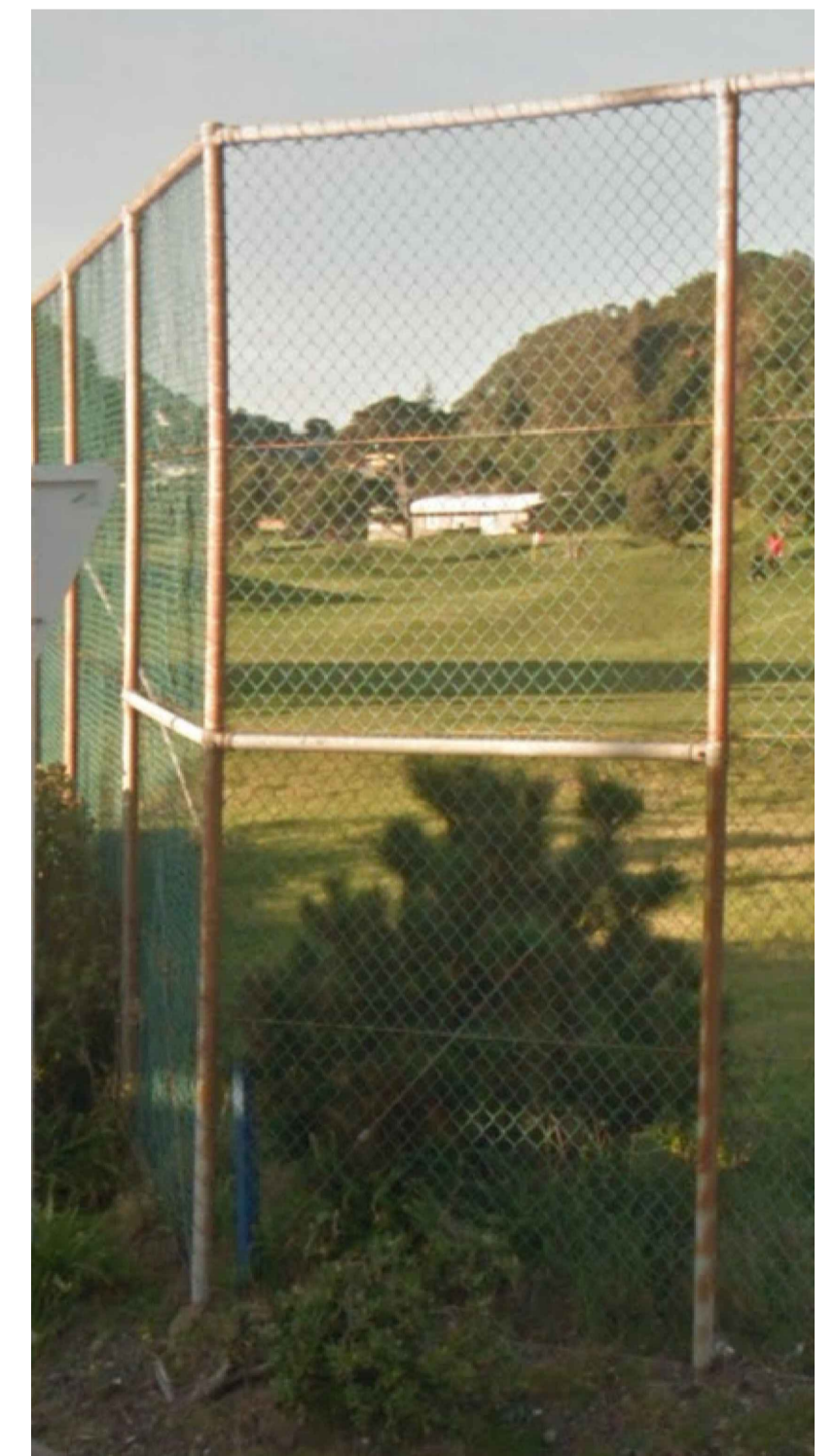
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Job No	Sheet No	Rev		
147103.30	C90-04	A		






existing section of fence photo



existing corner section of fence photo

notes:

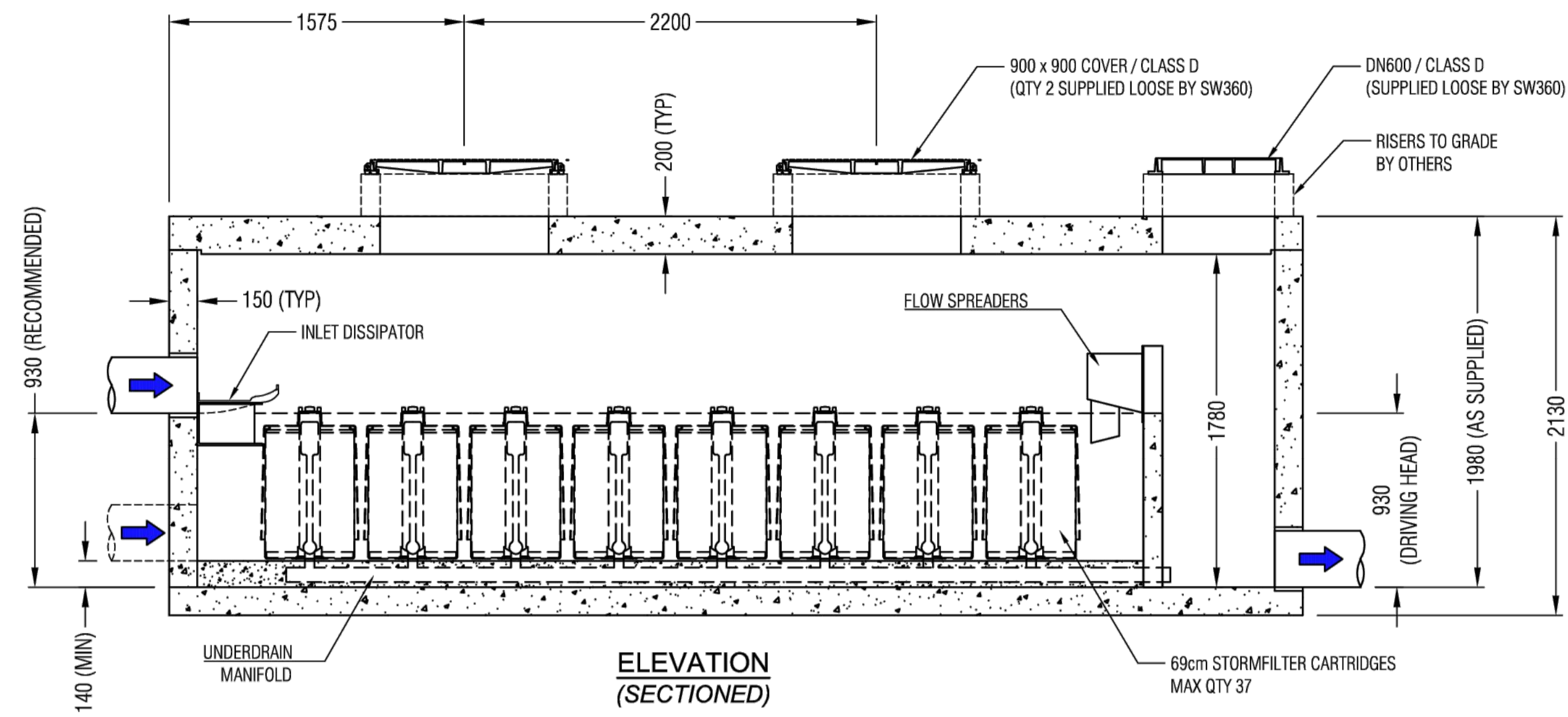
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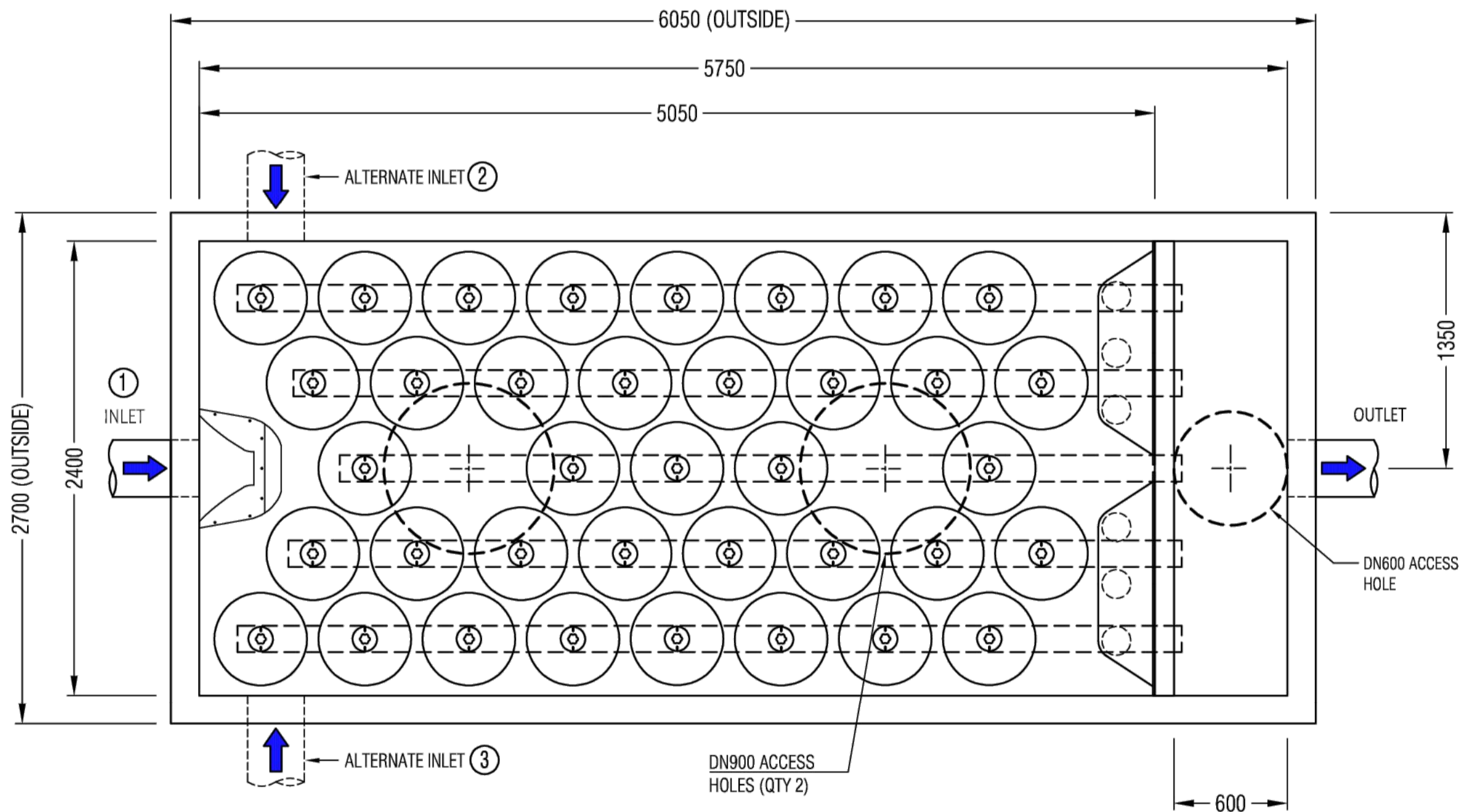
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Rev	Date	Appd	Reason								

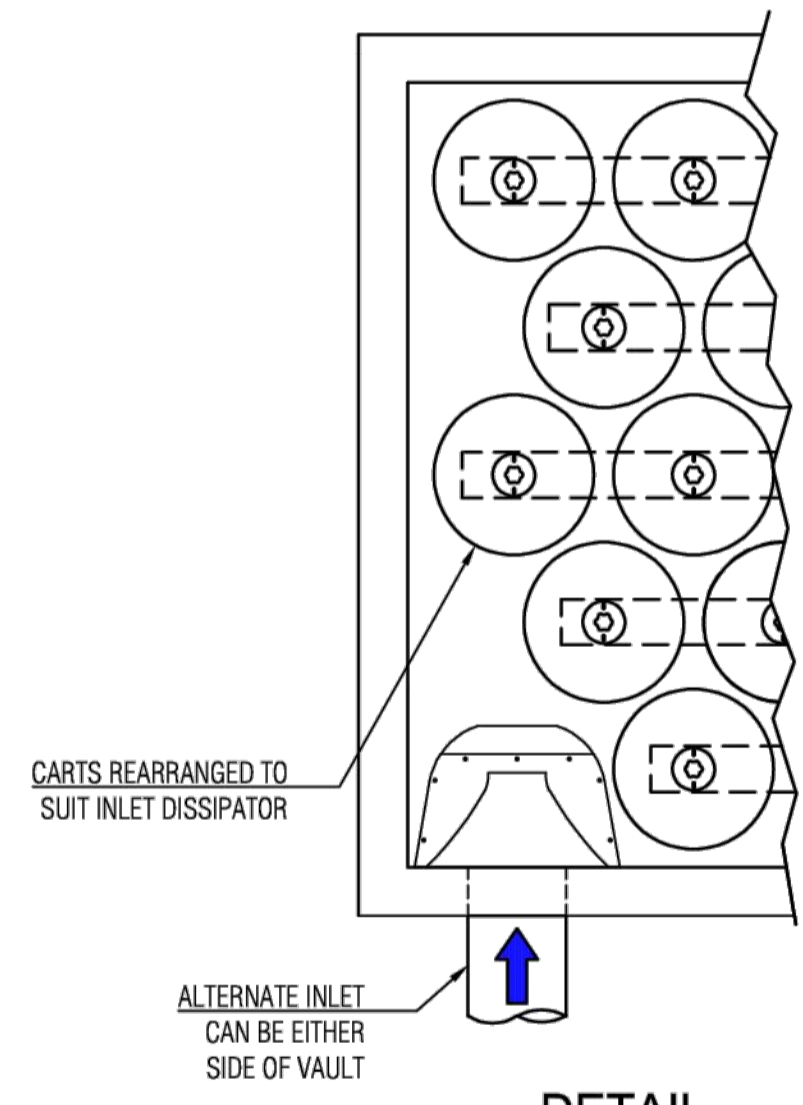




ELEVATION  
(SECTIONED)



PLAN VIEW  
(LID OMITTED)



DETAIL  
(ALTERNATE INLET)

**TO BE COMPLETED BY CUSTOMER / CONTRACTOR**

COMPANY :		P.O. NUMBER :	
SITE ADDRESS :			
SITE CONTACT & PHONE :			
PREFERRED DELIVERY DATE (TBC SW360) :			
STORMFILTER REFERENCE (IF APPLICABLE) :			
INLET PIPE Ø :	PIPE MATERIAL :	CORE DRILL Ø :	INLET (IL) :
OUTLET PIPE Ø :	PIPE MATERIAL :	CORE DRILL Ø :	OUTLET (IL) :
INLET ORIENTATION :	1 2 3	LID LEVEL (RL) :	DTI :
COMPLETED BY :	SIGNED :		DATE :

**TO BE COMPLETED BY SW360**

SW360 PRODUCT CODE :				
MEDIA TYPE (CIRCLE ONE) :	PERLITE	ZPG	OTHER :	
CARTRIDGE QTY (STATE) :				PRE-INSTALLATION (Y/N) :
SP FLOW RATE (CIRCLE ONE) :	FULL (Ø 27.6 ID) BLACK/MUSTARD	3 QTR (Ø 24.0 ID) WHITE/OPAL	HALF (Ø 19.7 ID) GREEN	OTHER :
ACCESS COVERS (CIRCLE ONE) :	AS DRAWN - YES or NO			OTHER :
COMPLETED BY :	SIGNED :		DATE :	

**APPROX WEIGHTS**

VAULT WEIGHT: **22600 Kg** (EMPTY)  
 VAULT WEIGHT: **24450 Kg** (WITH 37 X ZPG CARTS FITTED)  
 LID WEIGHT : **8000 Kg**

**NOTES**

- SW360 TO CONFIRM WEIGHTS AND LIFTING DETAILS PRIOR TO DELIVERY.
- UNIT SUPPLIED WITH INLET & OUTLET HOLES PRE-CORED.
- INLET AND OUTLET PIPES BY OTHERS.
- SEALING / GROUTING OF CONCRETE LID AND PIPES BY CONTRACTOR, ENSURING LOCAL CODES AND REGULATIONS ARE COMPLIED WITH.
- ANY RISERS REQUIRED TO INCREASE THE DEPTH TO INVERT (DTI) FROM THAT AS DRAWN TO BE SUPPLIED BY THE CONTRACTOR. CONTACT **0800STORMWATER** FOR DETAILS.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION RELATED EROSION RUNOFF.
- BACKFILL, BEDDING AND BUOYANCY DESIGN BY ENGINEER OF RECORD
- QTY OF CARTRIDGES BY ENGINEER OF RECORD.
- CONCRETE VAULT AND LID DESIGNED AND MANUFACTURED TO HN-HO-72
- DESIGN CHECK REQUIRED WHEN COVER ABOVE LID EXCEEDS 1.0M.
- OTHER CONFIGURATIONS ARE POSSIBLE. FOR REQUIREMENTS OUTSIDE OF DRAWING SPECIFICATIONS PLEASE CONTACT **0800STORMWATER**.



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 www.stormwater360.co.nz

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STORMFILTER®  
 CARTRIDGE FILTRATION SYSTEM  
 37 x 69cm CARTRIDGE VAULT  
 GENERAL ARRANGEMENT

SCALE : N.T.S. DRG No : SF-V-69-5824-20

JOB NO :		REV	REVISION DETAIL	DATE
PROJECT :		0	APPROVED	24/09/20
DRN :	G.S. 25/06/20			
CKD :	K.J. 08/09/20			

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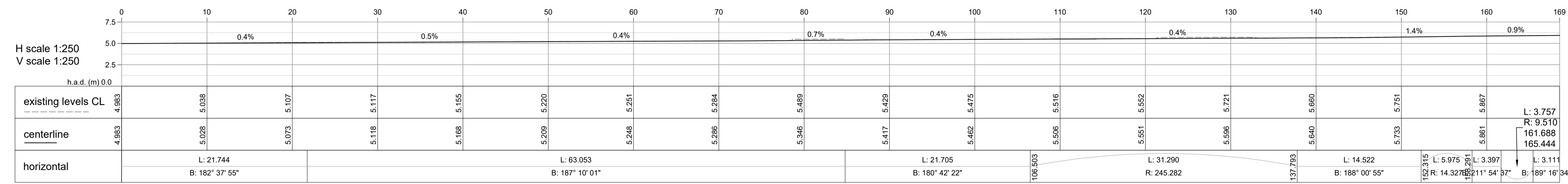
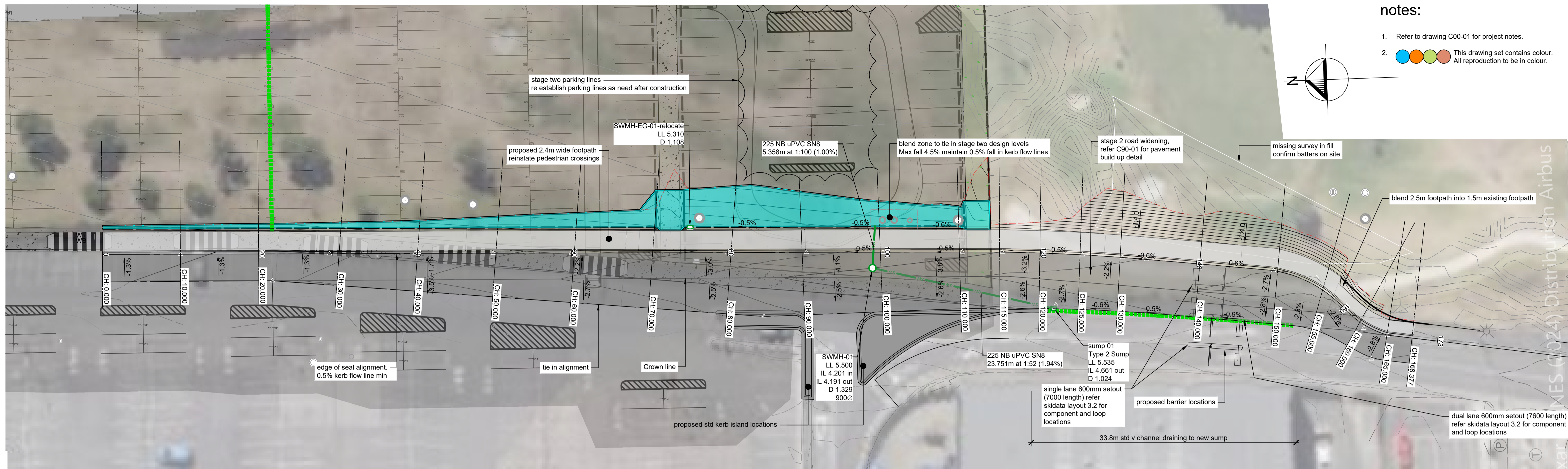
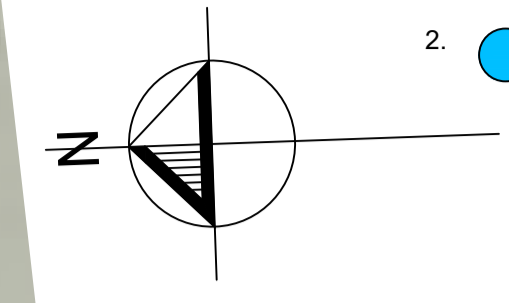
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147103.30	C90-06	A		




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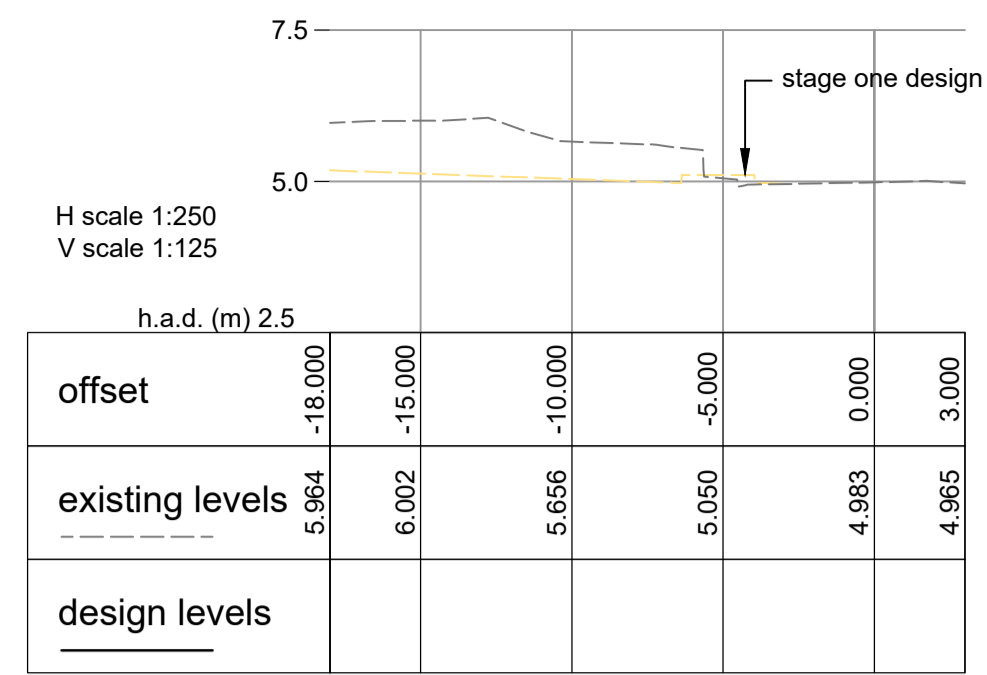
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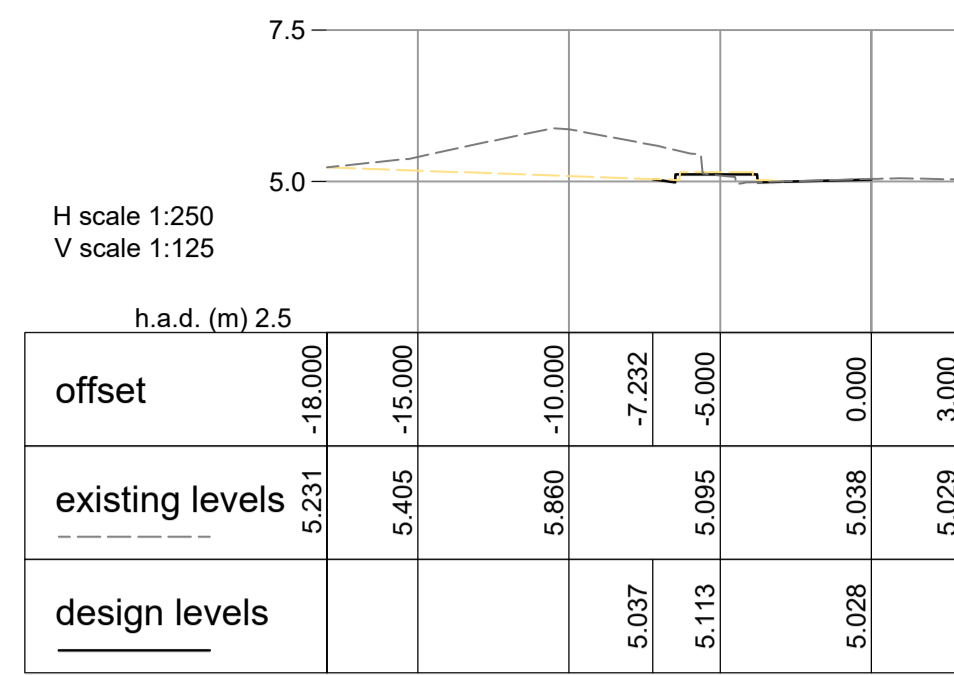


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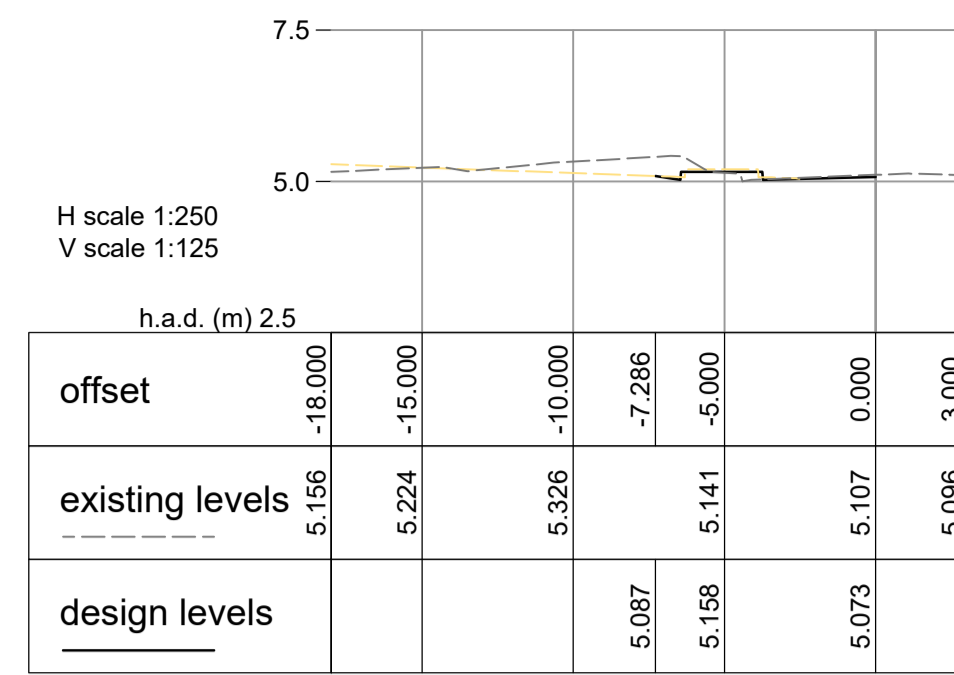
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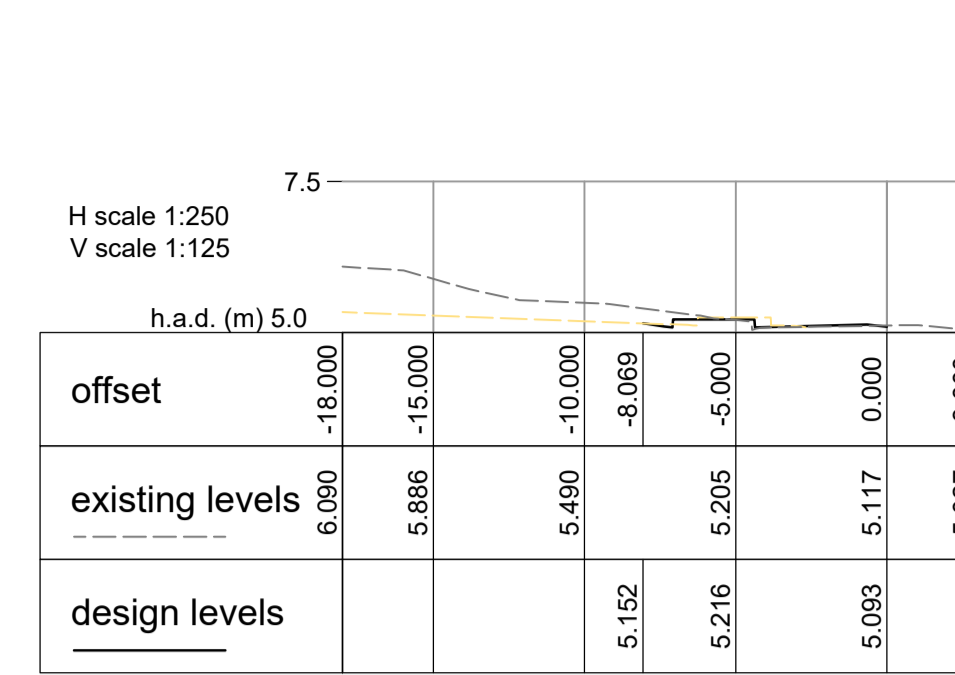
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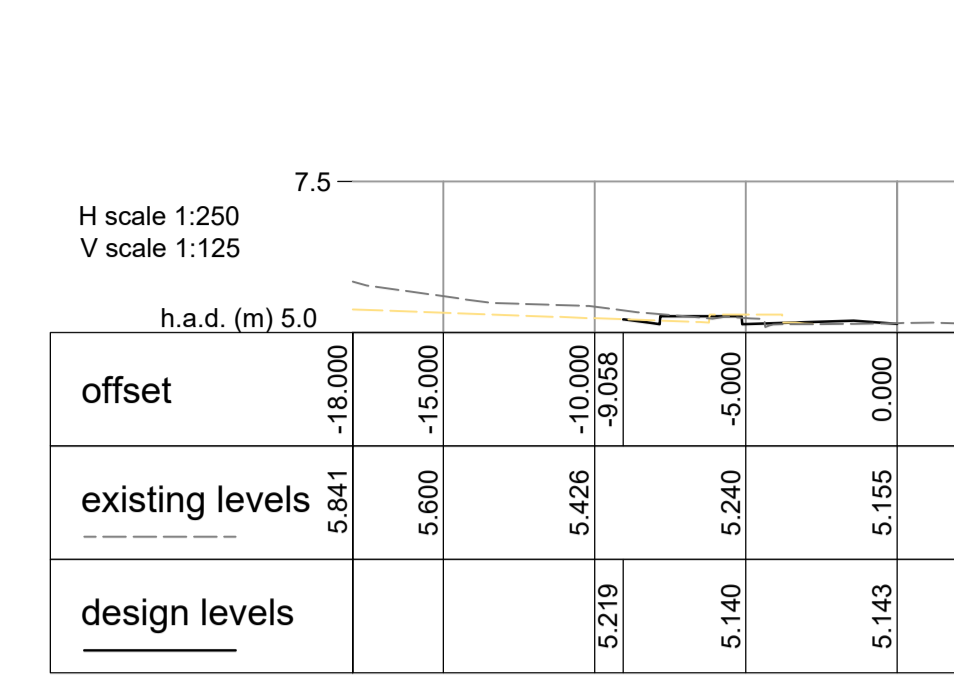
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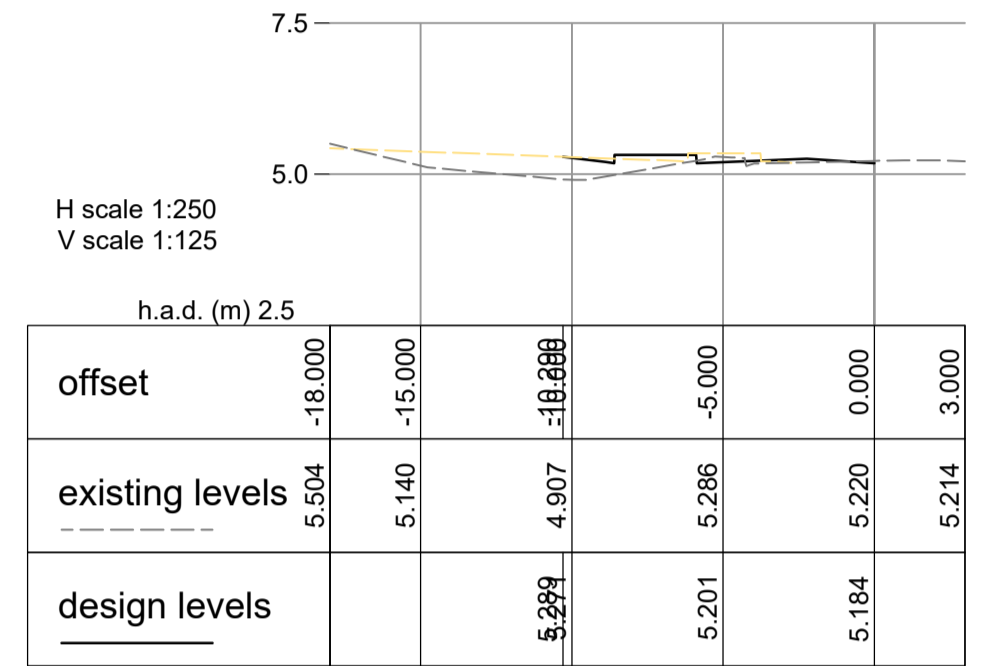
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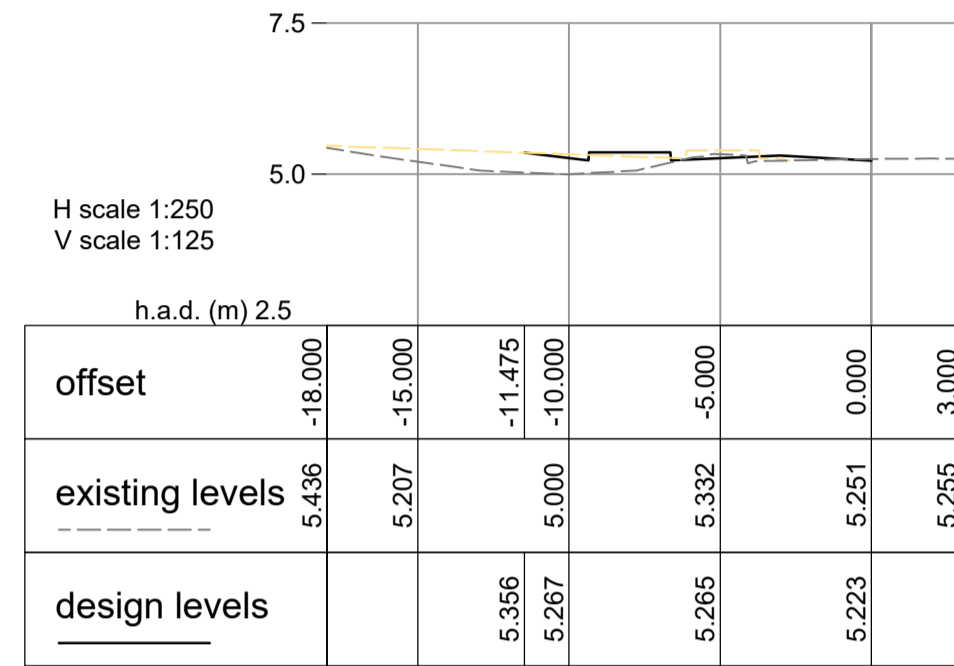
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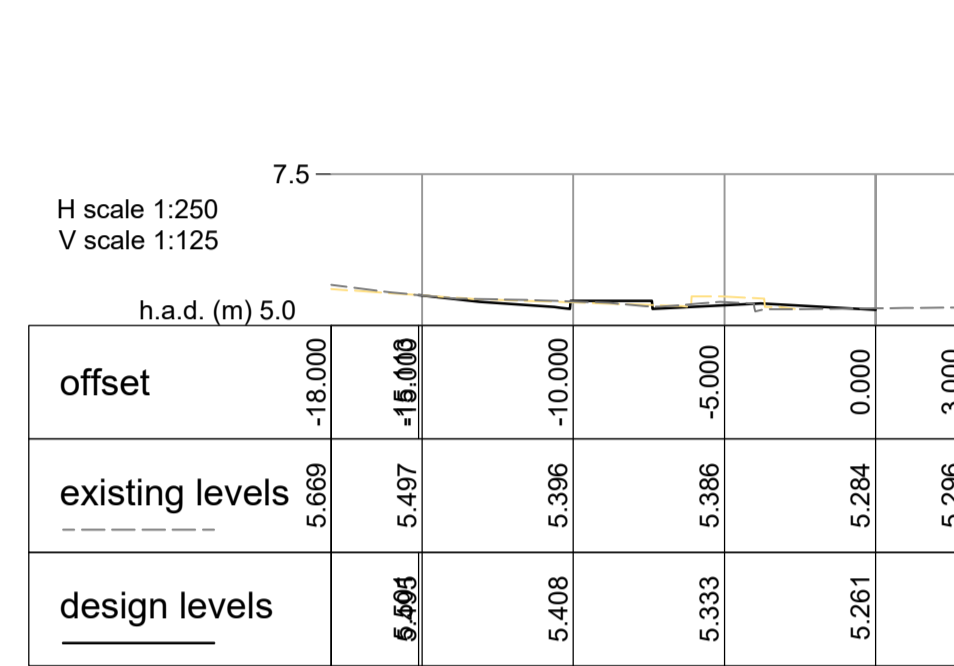
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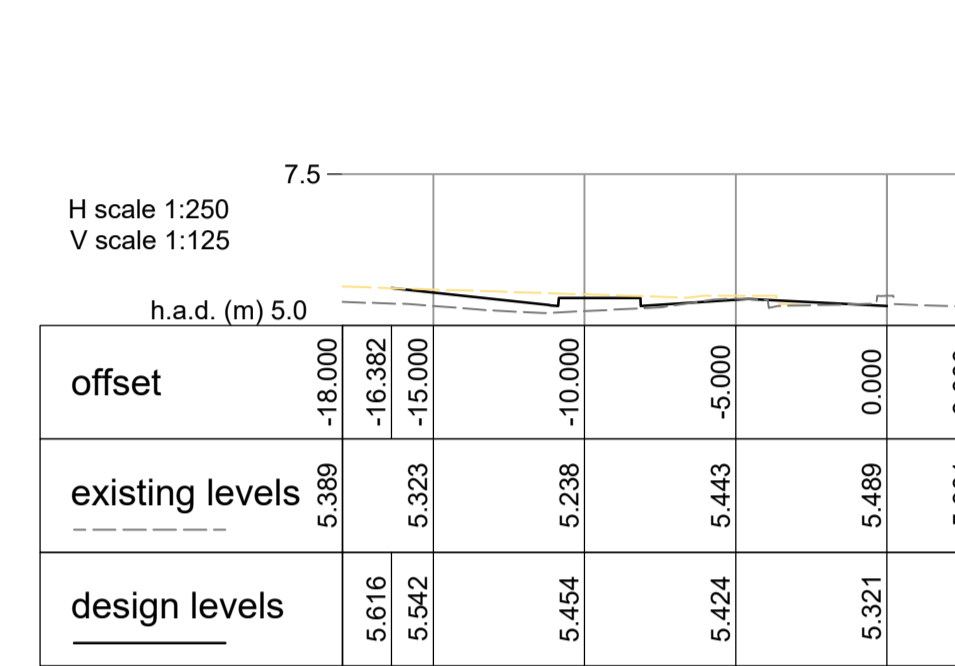
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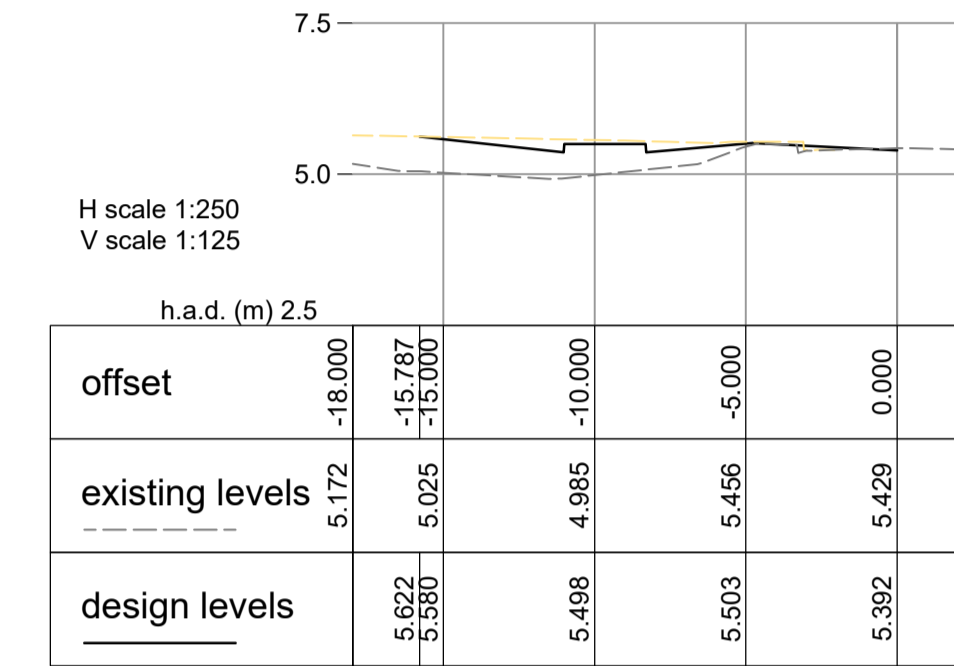
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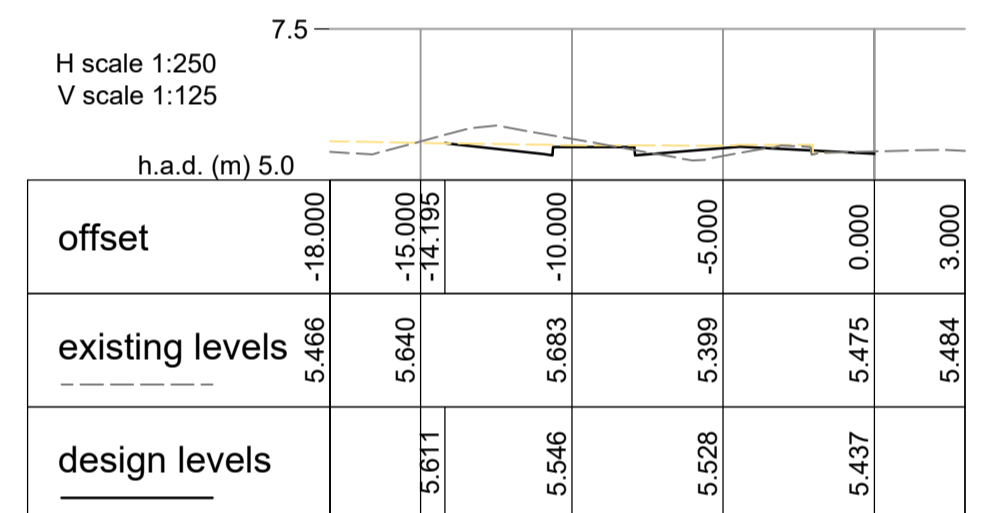
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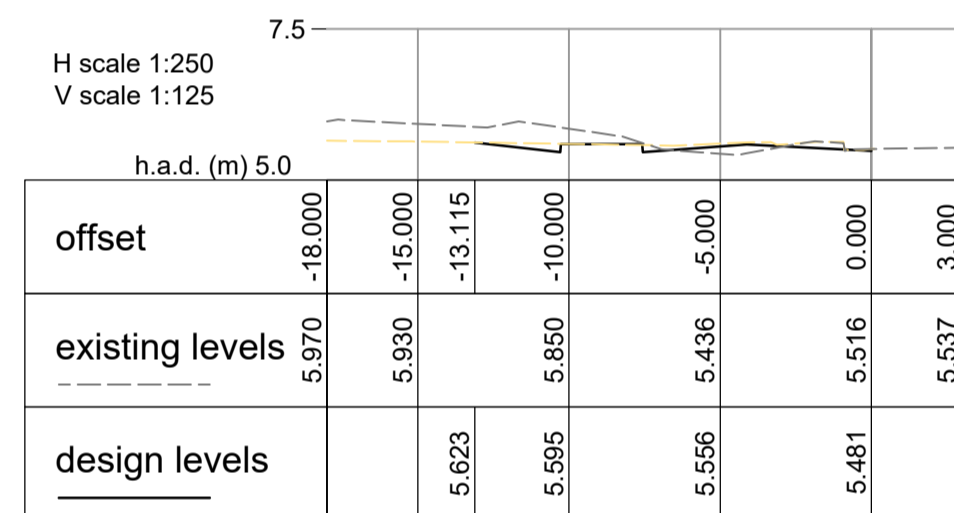
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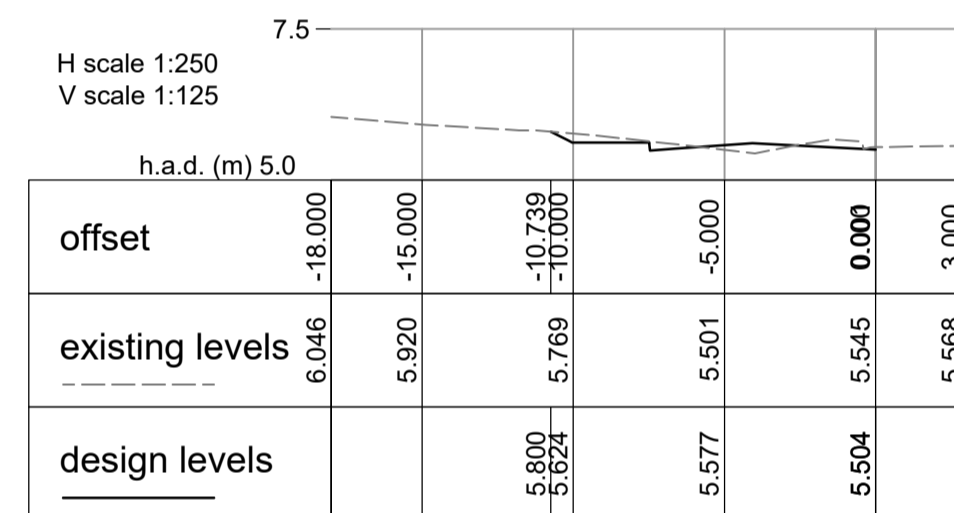
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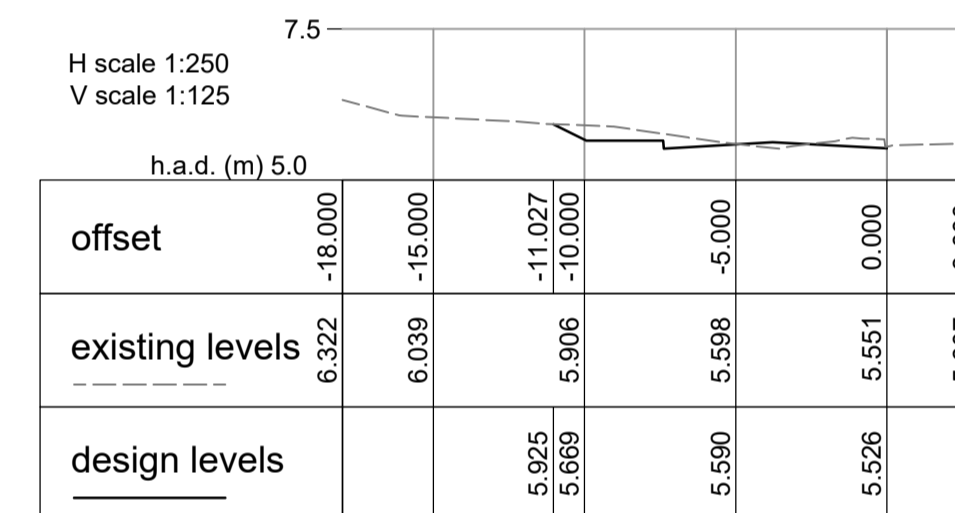
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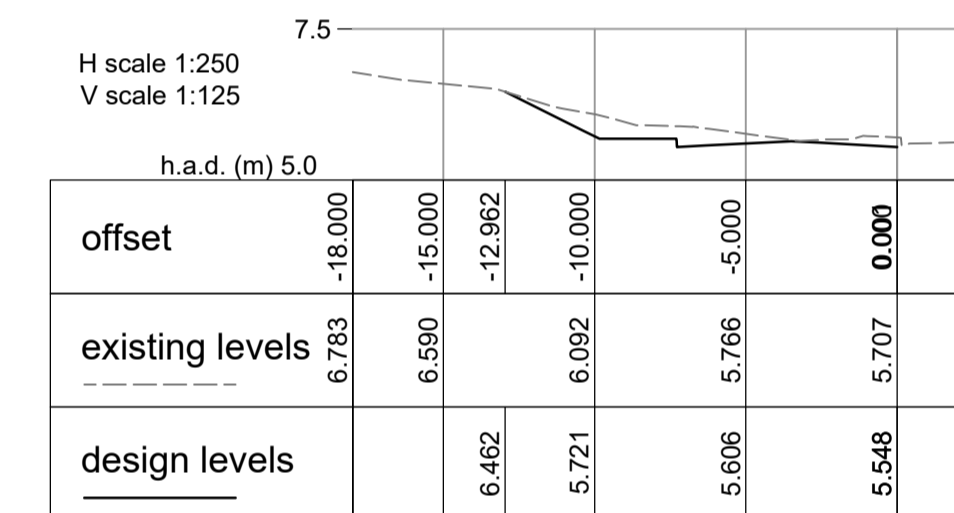
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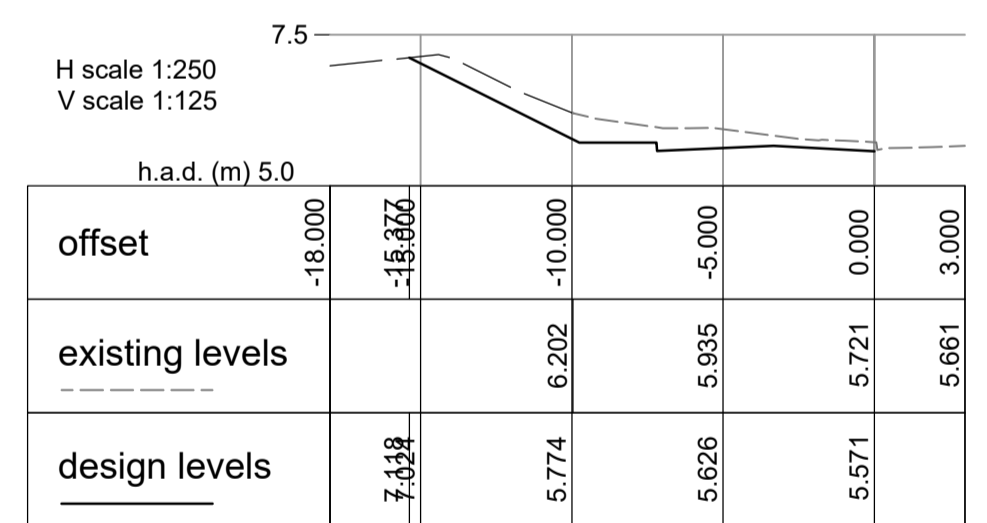
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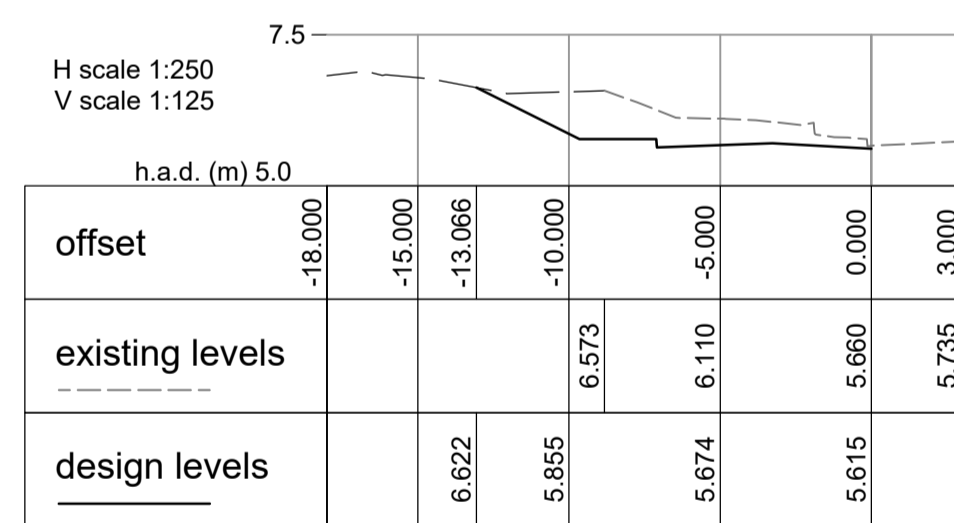
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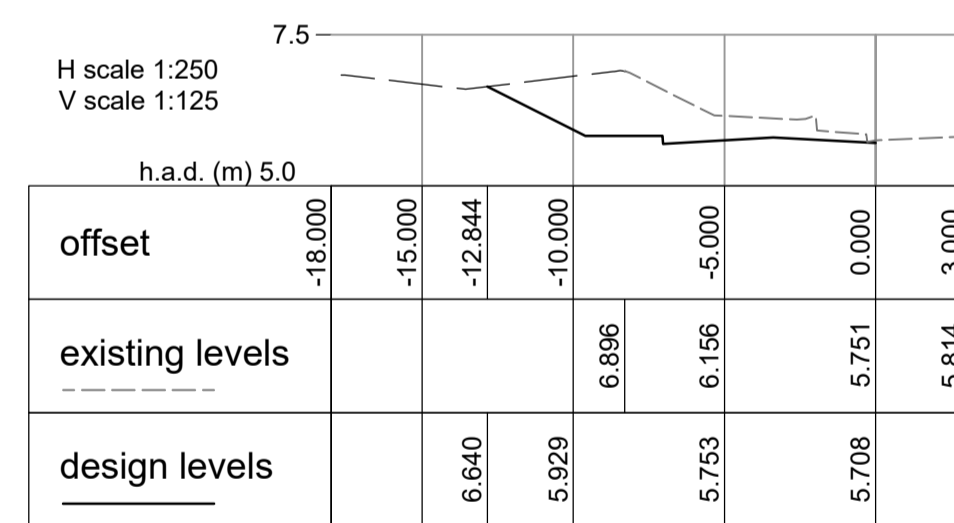
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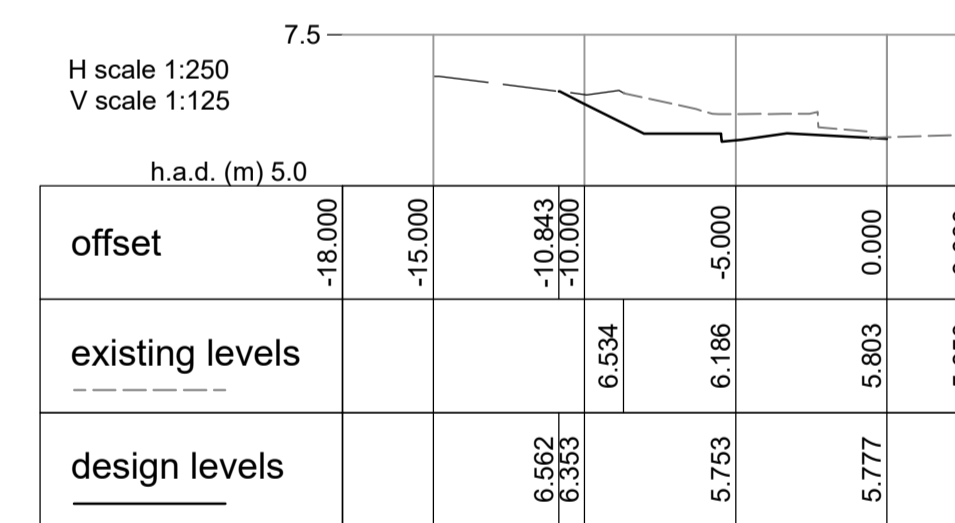
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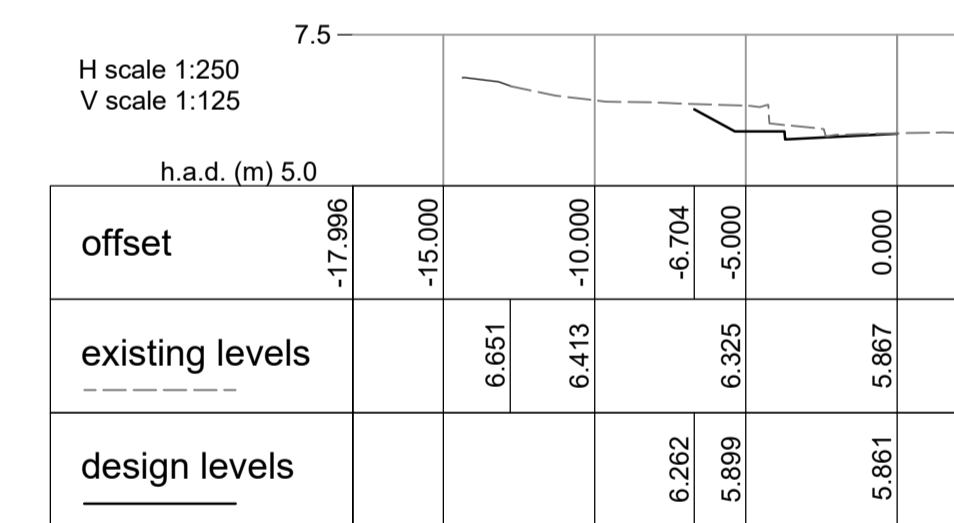
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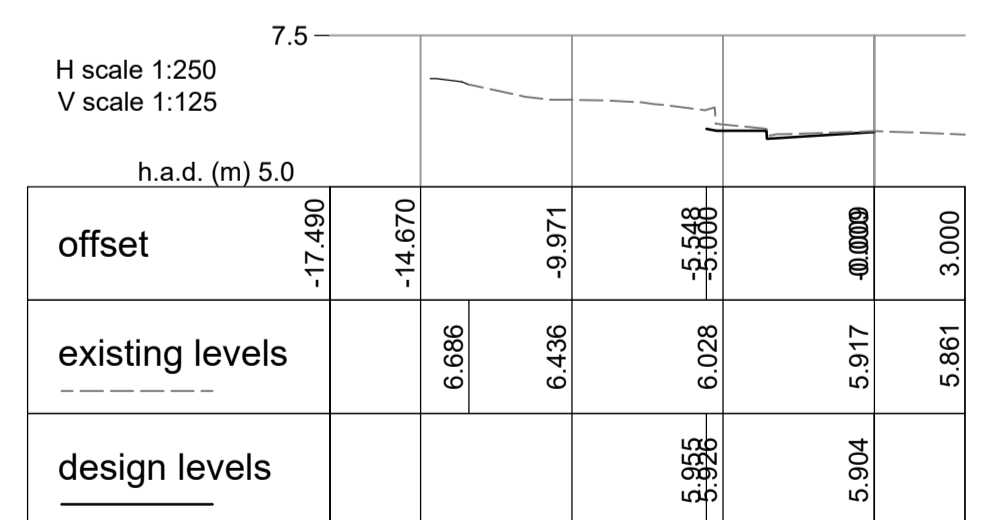
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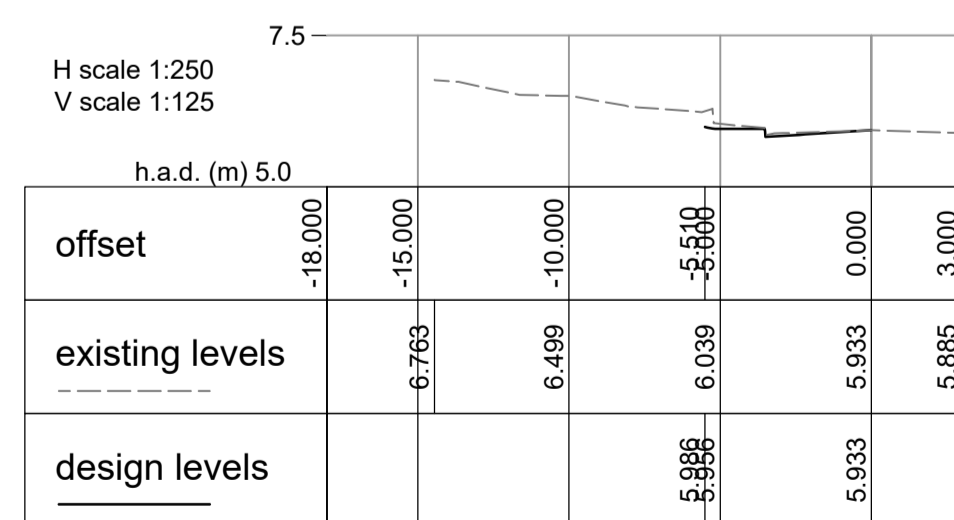
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Chainage 165.000



Chainage 168.377

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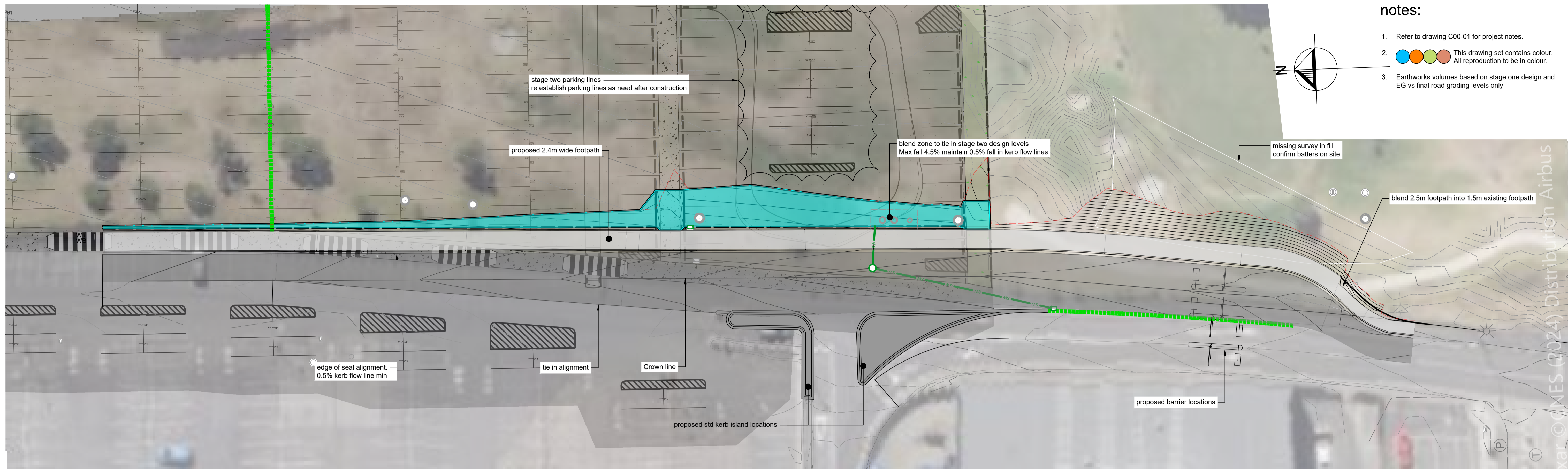
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Sheet Title  
stage two  
cross sections

Drawn	DRL	Scale	as shown	(at A1)
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Job No	Sheet No	Rev		
147103.30	C103-01	A		





- notes:
1. Refer to drawing C00-01 for project notes.
  2. This drawing set contains colour. All reproduction to be in colour.
  3. Earthworks volumes based on stage one design and EG vs final road grading levels only

Surface Analysis: Elevation Ranges			
Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1		-1.076	-0.600
2		-0.600	-0.300
3		-0.300	0.000
4		0.000	0.100
5		0.100	0.200

Cut/Fill Summary						
Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
basic earthworks	1.000	1.000	1942.557sq.m	263.769 Cu. M.	16.189 Cu. M.	247.580 Cu. M.<Cut>
Totals			1942.557sq.m	263.769 Cu. M.	16.189 Cu. M.	247.580 Cu. M.<Cut>

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Sheet Title  
 stage two  
 earthwork voulmes plan

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