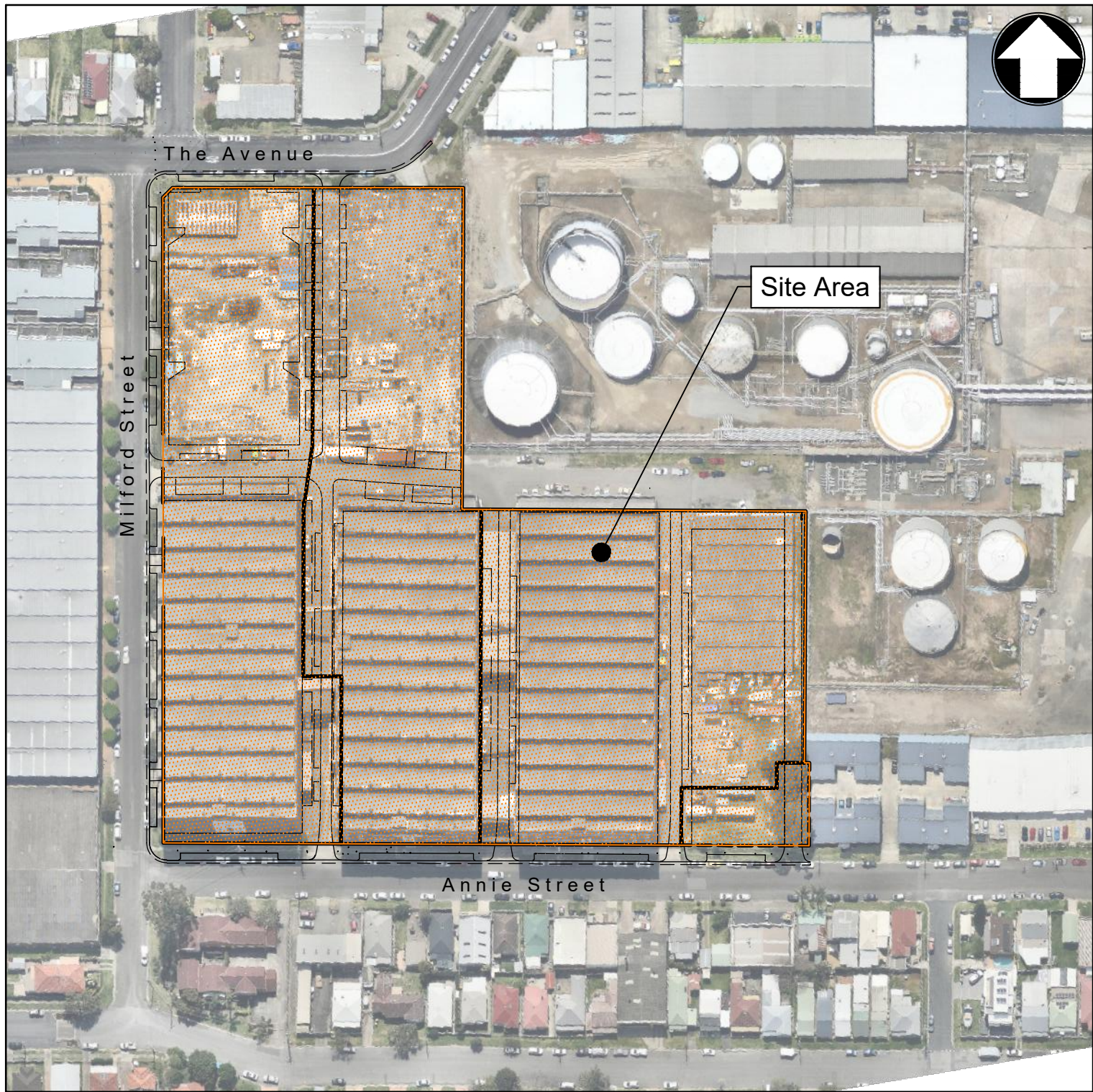




Locality Plan



Wickham Woolstores
33, 49 and 57 Annie Street, Wickham
Civil Works

Development Application Drawings

Drawing List

Drawing Number

MMD-366163-C-DR-00-DA-1001
MMD-366163-C-DR-00-DA-1002
MMD-366163-C-DR-00-DA-1003
MMD-366163-C-DR-00-DA-1010
MMD-366163-C-DR-00-DA-1012
MMD-366163-C-DR-00-DA-1013
MMD-366163-C-DR-00-DA-1014
MMD-366163-C-DR-00-DA-1015
MMD-366163-C-DR-00-DA-1016
MMD-366163-C-DR-00-DA-1020
MMD-366163-C-DR-00-DA-1021
MMD-366163-C-DR-00-DA-1030
MMD-366163-C-DR-00-DA-1035
MMD-366163-C-DR-00-DA-1040
MMD-366163-C-DR-00-DA-1041
MMD-366163-C-DR-00-DA-1042
MMD-366163-C-DR-00-DA-1043
MMD-366163-C-DR-00-DA-1044
MMD-366163-C-DR-00-DA-1050
MMD-366163-C-DR-00-DA-1051
MMD-366163-C-DR-00-DA-1060
MMD-366163-C-DR-00-DA-1061
MMD-366163-C-DR-00-DA-1070

Drawing Title

Cover Sheet
General Notes Sheet
Legends Sheet
General Arrangement Plan
Siteworks Grading Plan - Sheet 1
Siteworks Grading Plan - Sheet 2
Siteworks Grading Plan - Sheet 3
Siteworks Grading Plan - Sheet 4
Siteworks Grading Plan - Sheet 5
Typical Road Cross Sections - Sheet 1
Typical Road Cross Sections - Sheet 2
Soil and Water Management Plan
Soil and Water Management Notes and Details
Stormwater Management Plan - Sheet 1
Stormwater Management Plan - Sheet 2
Stormwater Management Plan - Sheet 3
Stormwater Management Plan - Sheet 4
Stormwater Management Plan - Sheet 5
Road Longitudinal Sections - Sheet 1
Road Longitudinal Sections - Sheet 2
Siteworks and Stormwater Drainage Details Sheet 1
Siteworks and Stormwater Drainage Details Sheet 2
Above Ground Detention Basin Plan and Section

Council Drawing List

Drawing Number

A1100
A1200
A1201
A1300
A2000
A2003
A2100
A2101
A2102
A2200
A2205

Drawing Title

Kerb Detail for Flexible Road Pavements
Standard Extruded Kerb and Gutter Profiles
Footway Kerb Ramps
Driveway Crossing Standard Design Details
Stormwater Pipe Installation Details
Subsoil Drainage for Road Pavements
Junction Pit with Square Cast Iron Cover Type JP1 and JP2
Junction Pit with Square Cast Iron Cover Type JP3
Junction Pit with Square Cast Iron Cover Type JP4
Kerb Inlet Pit On-Grade and Sag with One Piece Precast Top
Inlet Pit - Non Trafficable

MMD-366163-C-DR-00-DA-1001 P3
Date: 03.07.17

General Notes	
GN1	All work to be carried out in accordance with Newcastle City Council's standards and to the requirements of Council.
GN2	No work to be carried out on adjoining properties without written permission of property owner or responsible authority.
GN3	No trees are to be removed except for those noted on plan without written permission from Council.
GN4	All workmanship and materials shall comply with the National Construction Code of Australia and the relevant current Australian Standards.
GN5	Any discrepancies, omissions or errors shall be reported to the Superintendent for clarification before proceeding with the work.
GN6	Do NOT scale measurements from the drawings.
GN7	All compaction works for footpaths and pavements shall be done without the use of any form of vibrating machines or plant.

Siteworks Notes	
SN1	Datum : Australian Height Datum (AHD) Origin of levels : SSM 11297, RL1.019 (AHD) Origin of co-ordinates : Mapping Grid Of Australia (MGA) Survey prepared by : Monteath & Powys Pty Ltd Suite 405, 486 Pacific Hwy, St Leonards Phone No. (61) 2 94362410
SN2	The contractor must verify all dimensions and existing levels on site prior to commencement of work, and report any discrepancies to the superintendent.
SN3	All existing services (including any not shown on the plans) must be accurately located in position and level prior to any excavation. Any discrepancies shall be reported to the superintendent. minimum service clearances shall be maintained from the relevant service authority.
SN4	The contractor shall arrange for all setting out by a registered surveyor.
SN5	It is the contractors responsibility to notify the Department of Land and Property Information NSW, of any survey marks that will be destroyed in the construction of works. Contact Head Office on 1300 052 637 www.lpi.nsw.gov.au and http://scims.lpi.nsw.gov.au/status_report_frames.html
SN6	The contractor shall obtain all regulatory authority approvals at their own expense.
SN7	Where new works about existing, the contractor must ensure that a smooth and even profile, free from abrupt changes is obtained.
SN8	All disturbed areas shall be restored to their original condition, unless specified otherwise.
SN9	Excavated trenches shall be compacted to the same density as the adjacent natural material. Any subsidence's during the period to be rectified as directed by the superintendent.
SN10	Any existing trees which form part of the final landscaping plan will be protected from construction activities in accordance with the landscape architect's details and / or by - Protecting them with barrier fencing or similar materials installed outside the drip line, ensuring that nothing is nailed to them, prohibiting paving, grading, sediment wash or placing of stockpiles within the drip line except under the following conditions - Encroachment only occurs on one side and no closer to the trunk than either 1.5m or half the distance between the outer edge of the drip line and the trunk, which ever is the greater, a drainage system that allows air and water to circulate through the root zone (eg a gravel bed) is placed under all fill layers of more than 300mm care is taken not to cut roots unnecessarily nor to compact the soil around them.
SN11	Receptors for concrete and mortar slurries, paints, acid washings, light-weight waste materials and litter are to be emptied as necessary. Disposal of waste shall be in a manner approved by the superintendent or as specified in the works contract.

Existing Services Notes	
ES1	Existing services have been plotted from supplied data and as such their accuracy cannot be guaranteed. It is the responsibility of the contractor to establish the location and level of all existing services prior to the commencement of any work. Any discrepancies shall be reported to the superintendent.
ES2	The contractor shall allow for the capping off, excavation and removal if required of all redundant existing services in areas affected by works within the contract area, as shown on the drawings unless directed otherwise by the superintendent.
ES3	The contractor shall ensure that at all times services to all buildings not affected by the works are not disrupted.
ES4	If required, the contractor shall construct temporary services to maintain existing supply to buildings remaining in operation during works to the satisfaction and approval of the superintendent. Once diversion is complete and commissioned the contractor shall remove all such temporary services and make good to the satisfaction of the superintendent and the relevant service authority.
ES5	Interruption to supply of existing services shall be done so as not to cause any inconvenience to the principal. The contractor is to gain approval from the superintendent for time of interruption - the contractor is responsible for all liaison.
ES6	All branch gas and water services under driveways and brick paving shall be located in Ø80mm uPVC sewer grade conduits extending a minimum of 500mm beyond the edge of paving.
ES7	Clearance and cover requirements shall be obtained from the relevant service authority before commencement of works and shall be adhered to at all times.
ES8	Care is to be taken when excavating near existing services. No mechanical excavations are to be undertaken over telecom or electrical services. Hand excavate in these areas only.

Earthworks Notes											
EW1	All work shall comply with AS3798 (2007) - Guidelines on earthworks for commercial and residential developments.										
EW2	All work shall comply with the project geotechnical report -										
EW3	Strip topsoil to expose naturally occurring engineering material and stockpile on site for reuse as directed by the superintendent.										
EW4	All soft, wet or unsuitable material to be removed as directed by the superintendent and replaced with approved fill material.										
EW5	All fill material shall be from a source approved by the superintendent and shall comply with the following - a) free from organic and perishable matter, b) maximum particle size 75mm, and c) plasticity index - between 2% and 15%.										
EW6	All fill material shall be placed in maximum 200mm thick layers and compacted at optimum moisture content (+ or - 2%) to achieve a dry density determined in accordance with AS1289.5.1.1 - 2003 - methods of testing soils for engineering purposes of not less than the following standard minimum dry density - <table><tr><th>location</th><th>standard dry density</th></tr><tr><td>under building slabs</td><td>98%</td></tr><tr><td>vehicular paved areas</td><td>100%</td></tr><tr><td>non-vehicular paved areas</td><td>98%</td></tr><tr><td>landscaped areas</td><td>95%</td></tr></table>	location	standard dry density	under building slabs	98%	vehicular paved areas	100%	non-vehicular paved areas	98%	landscaped areas	95%
location	standard dry density										
under building slabs	98%										
vehicular paved areas	100%										
non-vehicular paved areas	98%										
landscaped areas	95%										
EW7	The contractor shall program the earthworks operation so that the working areas are adequately drained during the period of construction. The surface shall be graded and sealed off to remove depressions, roller marks and similar which would allow water to pond and penetrate the underlying material. any damage resulting from the contractor not observing these requirements shall be rectified by the contractor at their own expense.										
EW8	Testing of the fill material shall be carried out by an approved NATA registered laboratory at the contractors expense.										
EW9	Where the subgrade is unable to support construction equipment, or it is not possible to compact overlying pavement layers, only because of the subgrade moisture content, then the contractor shall condition or replace the material at the contractors discretion and expense.										
EW10	Earthworks calculations are volumetric only and do not allow for bulking of excavated material. It is the contractors responsibility to make allowances for these items as part of the tender / works.										
EW11	No allowance has been made for footings or foundations, retaining walls or trenching. It is the contractors responsibility to make allowances for these items as part of the tender / works.										

Stormwater Notes	
SW1	For residential subdivisions and public roads - All Ø375mm to Ø600mm drainage pipes shall be class 2 approved spigot and socket reinforced concrete pipes with rubber ring joints (UNO). All Ø675mm or larger drainage pipes shall be class 3 approved spigot and socket reinforced concrete pipes with rubber ring joints (UNO). All uPVC drainage pipes in footways or accessways shall be DWV grade class SN8 in accordance with AS/NZS 1260:2009 - PVC-u pipes and fittings for drain, waste and vent application. heavy duty uPVC pipes to be in accordance with AS/NZS 1254 : 2010 - PVC pipes and fittings for storm and surface water applications may be used within allotments.
SW2	Equivalent strength fibrous reinforced concrete (F.R.C.) and / or High density polyethylene (H.D.P.E.) may be used subject to approval by the superintendent.
SW3	All pipe junctions up to and including Ø450mm and tapers, shall be via purpose made fittings (UNO).
SW4	Minimum grade to stormwater lines to be 1% (UNO).
SW5	Contractor to supply and install all fittings and specials including various pipe adaptors to ensure proper connection between dissimilar pipework.
SW6	All connections to existing drainage pits shall be made in a tradesman-like manner and the internal wall of the pit at the point of entry shall be cement rendered to ensure a smooth finish with no protrusions.
SW7	All in-situ concrete pits to be 32Mpa minimum at 28 days.
SW8	Pits and pipes in areas of salinity hazard shall have increased cover to any reinforcement.
SW9	Precast concrete pits may be installed in lieu of cast in-situ pits, when pipe junctions are accommodated within the overall dimensions of the pit, and approved by the superintendent.
SW10	Pits deeper than 1000mm shall have step irons installed in accordance with the local or statutory authority requirements.
SW11	Bedding shall be type H2 (UNO) for pipes not under pavements, and type HS2 for pipes under pavements in accordance with AS/NZS 3725 : 2007 - design for installation of buried concrete pipes.
SW12	Backfill trench with sand or approved granular backfill to 300mm (min) above the pipe. Where the pipe is under pavements backfill remainder of trench to pavement subgrade with sand or approved gravel sub-base compacted in 150mm layers to 98% standard maximum dry density. The contractor is to ensure compaction equipment is appropriate for the pipe class used.
SW13	Where stormwater lines pass under floor slabs DWV grade uPVC rubber ring joints are to be used (UNO).
SW14	Where subsoil drainage lines pass under floor slabs and vehicular pavements, unslotted uPVC DWV grade class SN8 pipe shall be used.
SW15	Provide 3m length of Ø100mm subsoil drainage line or 200 'Nylex' strip drain surrounded with 150mm of 20mm blue metal or gravel, and wrapped in 'Bidum' A24 geotextile filter fabric or approved equivalent, at invert of incoming upstream pipe on each pit.
SW16	All pipes where minimum 400mm cover has not been achieved, are to be either concrete encased or upgraded to a higher class of concrete.
SW17	If water quality systems require modification versus buoyancy forces of groundwater (worst-case groundwater to be advised combined with assumption of "empty system" following maintenance.
SW18	Currently water quality systems are designed to B2 concrete exposure classification, TBA if higher design criteria required (full redesign if so) - all stainless steel internal components have been upgraded to '316' marine grade.
SW19	Advice of tail water levels in pipelines to be confirmed for each location to determine if modifications required to avoid equalisation across system.

Concrete Notes							
<u>General</u>							
CN1	Use "AS3972 - 2010 - General purpose and blended cements - Type GP" cement (UNO).						
CN2	All concrete shall be subject to project control sample and testing to AS3600 - 2009 - concrete structures.						
CN3	Consolidate all concrete, including footings and slabs on ground with mechanical vibrators.						
CN4	Cure all concrete as follows - - keep surfaces continuously wet for 3 days, then - prevent moisture loss for the next 4 days using polythene sheeting or wet hessian protected from wind and traffic, and then allow drying out. - curing compounds may be used provided that they comply with AS3799 and they do not affect floor finishes. - PVA-based curing compounds are NOT acceptable.						
CN5	Fix reinforcement as shown on drawings. The type and grade is indicated by a symbol as shown below - <table><tr><td>N</td><td>hot rolled deformed bar, grade 500</td></tr><tr><td>R</td><td>plain round bar, grade 250</td></tr><tr><td>SL / RL</td><td>hard drawn wire fabric square or rectangular</td></tr></table> following this symbol a numeral indicates the specified diameter.	N	hot rolled deformed bar, grade 500	R	plain round bar, grade 250	SL / RL	hard drawn wire fabric square or rectangular
N	hot rolled deformed bar, grade 500						
R	plain round bar, grade 250						
SL / RL	hard drawn wire fabric square or rectangular						
CN6	Provide bar supports or spacers to provide concrete cover as detailed to all reinforcement.						
<u>Concrete Pavements</u>							
CN7	Concrete mix parameters - maximum aggregate size 20mm flexural strength at 28 days = 3.5 MPa, F'c= 32 MPa, (UNO) flexural strength at 90 days = 3.85 MPa max water/cement ratio = 0.55 max shrinkage limit = 650 micron strains (AS1012.13-1992) min cement content = 300kg/m³ cement to be type "SL" (normal cement) to AS3972-2010 slump = 80mm						
CN8	Early age saw cutting ('softcut') or similar shall be used for initial saw cut. It is to be performed as soon as the concrete has hardened sufficiently, to prevent excessive chipping, spalling, or tearing regardless of time or weather conditions.						
CN9	Joint layout shall be as detailed on the plans.						
CN10	Provide 10mm wide expansion joints between all buildings, other structures and pavements.						
CN11	Bond breaker to be two (2) uniform coats of bitumen emulsion all over the exposed surface and on end.						
CN12	Dowels and tie bars to meet strength requirements of structural grade steel in accordance with AS ISO 1302 - 2005 - geometrical product specifications. Dowels and tie bars shall be - straight, to length specified, all dowels to be hot dip galvanised, sawn to length not cropped.						
CN13	Dimensions of sealant reservoir dependant on the sealant type adopted. Superintendent approval to be obtained for sealant and reservoir dimensions and detail proposed by the contractor. Refer to plans for typical arrangement and sealant.						
CN14	Prior to the placement of concrete in the adjacent slab, 'Ableflex' filler shall be adhered to the already cast and cleaned concrete face using an approved waterproof adhesive. Adhesive shall be liberally applied to the full face of the concrete slab to be covered by the filler, and on the full face of the filler to be adhered.						
CN15	The base course shall be kept moist (not wet) by sprinkling with water immediately prior to pouring the concrete.						
CN16	All work to be finished to satisfy its intended use as shown on the plans, and / or in accordance with the specification.						
<u>Kerbing Notes</u>							
CN17	All concrete kerbs to have a minimum characteristic compressive strength F'c=25MPa (UNO).						
CN18	All kerbs, dish drains, etc. to be constructed on 75mm minimum base course.(UNO on the Drawings)						
CN19	Kerb expansion joints shall be formed from 10mm 'Ableflex' (or approved equivalent) for the full depth of the section.						
CN20	Expansion joints shall be located at drainage pits, tangent points of curves and elsewhere at 12m maximum spacing (UNO).						
CN21	Tooled joints shall be min 3mm wide and located at maximum 3m spacing.						
CN22	Integral kerb joints shall match the location of the pavement jointing.						

Asphaltic Concrete Notes											
<u>General</u>											
AC1	Asphaltic concrete mix design, manufacture, placing and compaction shall be in accordance with RMS Specification R116-Asphalt (dense graded and open graded) and AS2150-2005 - Hot Mix Asphalt - A Guide To Good Practice. Annexure R116/1 to be completed by subcontractor and submitted for approval by superintendent 7 days prior to AC works.										
AC2	Mineral filler to comply with AS2150 - 2005 - Hot Mix Asphalt - A Guide to Good Practice.										
<u>Mix proportions</u>											
AC3	Job mix - 7mm nominal size aggregate. Minimum bitumen content (%) by (mass of total mass) - 5.1%.										
AC4	Mix stability - between 16kn and 36kn as determined by RMS test method T601 - Compaction of test specimens of dense grade bituminous mixtures and T603 - Stability of dense grade bituminous mixtures.										
AC5	Air voids in compacted mix - between 4% of volume and 7% of the mix. Voids filled in binder. 65-80% of air voids in the total mineral aggregate filled by binder in accordance with RMS test method T601 - Compaction of test specimens of dense grade bituminous mixtures. T605 - Maximum density of bituminous plant mix and T606 - Bulk density of compacted dense graded bituminous mixtures.										
<u>Pavement preparation</u>											
AC6	The existing surface to be sealed, shall be dry and broomed before commencement of work to ensure complete removal of all superficial foreign and loose matter.										
AC7	All depressions or uneven areas are to be tack-coated and brought up to general level of pavement with asphaltic concrete before laying of main course.										
<u>Tack coat</u>											
AC8	The whole of the area to be sheeted with asphaltic concrete shall be lightly and evenly coated with rapid setting bitumen. Application rate for residual bitumen shall be 0.15 to 0.30 litres/square metre. Application shall be by means of a mechanical sprayer with spray bar.										
<u>Spreading</u>											
AC9	All asphaltic concrete shall be spread with a self propelled paving machine.										
AC10	The asphaltic concrete shall be laid at a mix temperature as shown below - <table><tr><th>road surface temp in shade (°c)</th><th>mix temperatures (°c)</th></tr><tr><td>5 - 10</td><td>not permitted</td></tr><tr><td>10 - 15</td><td>150</td></tr><tr><td>15 - 25</td><td>145</td></tr><tr><td>25+</td><td>140</td></tr></table>	road surface temp in shade (°c)	mix temperatures (°c)	5 - 10	not permitted	10 - 15	150	15 - 25	145	25+	140
road surface temp in shade (°c)	mix temperatures (°c)										
5 - 10	not permitted										
10 - 15	150										
15 - 25	145										
25+	140										
AC11	Asphaltic concrete shall not be laid when the road surface is wet or when cold winds chill the mix to adversely affect temperature of mix during spreading and compaction operations.										
AC12	The minimum compacted thickness is 50mm in two (2) layers.										
<u>Joints</u>											
AC13	The number of joints both longitudinal and transverse shall be kept to a minimum.										
AC14	The density and surface finish at joints shall be similar to those of the remainder of the layer.										
<u>Compaction</u>											
AC15	All compaction shall be undertaken using self propelled rollers.										
AC16	Initial rolling shall be completed before the mix temperature falls below 105°C.										
AC17	Secondary rolling shall be completed before the mix temperature falls below 60°C.										
AC18	Minimum characteristic value of relative compaction of a lot when tested in accordance with AS2150 - 2005 - Hot mix asphalt - a guide to good practice shall be 95%.										
<u>Finished pavement properties</u>											
AC19	Finished surfaces shall be smooth, dense and true to shape and shall not vary more than 10mm from the specified plan level at any point and shall not deviate from the bottom of a 3m straight edge laid in any direction by more than 5mm.										

Linemarking Notes	
LM1	All linemarking works to be in accordance with either the current Australian standard AS1742.2-2009-Manual Uniform Traffic Control Devices, or as shown on the plans or as directed by the superintendent.
LM2	The scope of work shall include all pavement markings to roads and carparks.
LM3	The work carried out and testing performed shall comply with the current, relevant Australian standards and RMS standards where necessary.
LM4	All markings shall be spotted out and verified by the contractors representative prior to application.
LM5	Paint shall be applied at a wet thickness of between 0.35mm - 0.45mm.
LM6	Paint shall only be applied to clean and dry surfaces.
LM7	All longitudinal lines shall be applied by a self-propelled machine.
LM8	Linemarking removal shall be carried out by grinding or sandblasting. Removal by burning will not be permitted.
LM9	The extent of linemarking to be eradicated shall be confirmed on site prior to removal. Any markings incorrectly removed shall be reinstated at the contractor's expense.
LM10	All markings shall be completed in a workmanlike manner and be straight, smooth and with even curves. Any non-conforming work, shall be removed and reinstated at the direction of the superintendent at the contractor's expense.
LM11	Linemarking on AC pavements to be provided no sooner than 7-10 days once the asphalt has set.

Existing services and features	
E1.	The Contractor shall allow for the capping off, excavation and removal if required, of all existing services in areas affected by works within the contract area and as shown on the drawings, unless directed otherwise by the Superintendent.
E2.	Prior to commencement of any works the Contractor shall gain approval of his programme for the relocation/construction of temporary services.
E3.	Contractor shall construct temporary services to maintain existing supply to buildings remaining in operation during works to the satisfaction and approval of the superintendent. Once diversion is complete and commissioned the Contractor shall remove all such temporary services and make good to the satisfaction of the Superintendent.
E4.	Interruption to supply of existing services shall be done so as not to cause any inconvenience to the principal. Contractor to gain approval of Superintendent for time of interruption.

P3	03.07.17	JN	Issued for DA	SR	JG
P2	23.06.17	DRC	Issued for Review	SR	JG
P1	07.06.17	DRC	Issued for Review (Work in Progress)	SR	JG
Rev	Date	Drawn	Description	Ch'k'd	App'd



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Client
Investec

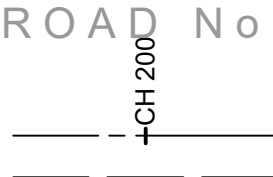
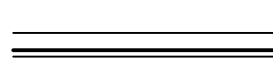
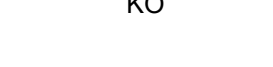
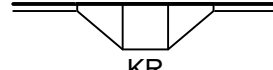
Title
**Wickham Wool Stores
Development Application
General Notes Sheet**

Designed	P.Cavanagh		Eng check	J.Gilligan	
Drawn	D.Chapman		Coordination	A.Zou	
Dwg check	A.Singh		Approved	J.Gilligan	
Scale at A1	NTS		Status	PRE	
			Rev	P3	
			Sec	STD	
Drawing Number MMD-366163-C-DR-00-DA-1002					

Survey Legend

	Existing boundary, bearing and distance
	Existing road name
	Existing building
	Existing kerb and spot levels
	Existing fence
	Existing spot level
	Existing earth batter
	Existing tree, level, trunk diameter, height and spread
	Existing electricity (underground)
	Existing electricity (overhead)
	Existing gas
	Existing sewer
	Existing stormwater drainage
	Existing water
	Existing telecommunications (underground)
	Existing high pressure petroleum oil line
	Existing electricity pit, pole, pole with light and light pole
	Existing gas valve
	Existing sewer pit and maintenance hole
	Existing stormwater grate, maintenance hole and pit
	Existing water hydrant, stop valve and valve
	Existing telecommunications pit and pillar
	Existing maintenance hole (unspecified)
	Existing pole (unspecified)
	Existing pit (unspecified)
	Existing traffic signal

Stormwater Drainage Legend	
	Stormwater drainage structure / pit number
	Construct junction pit in accordance with Newcastle City Council Standard drawings A2100, A2101 and A2102
	Construct surface inlet pit with butterfly grate
	Construct surface inlet pit with butterfly grate
	Construct kerb inlet pit with lintel in accordance with Newcastle City Council Standard drawing A2200
	Proposed stormwater drainage line with pipe size
	Downpipe connection
	Above ground detention basin Refer to drawing 1070 for details
	Construct swale formation
	Humegard (Refer to drawing 1040 to 1044 for details)
	Humeceptor (Refer to drawing 1040 to 1044 for details)

Civil Works Legend	
	Road name / number
	Design control line and chainage Sawcut existing pavement
	Construct kerb and gutter in accordance with Newcastle City Council Standard drawing A1200.
	Construct dish crossing in accordance with Newcastle City Council Standard drawing A1200.
	Construct kerb only in accordance with Newcastle City Council Standard drawing A1200.
	Construct dish gutter in accordance with Newcastle City Council Standard drawing A1200.
	Construct vehicular crossing in accordance with Newcastle City Council Standard drawing A1300.
	Construct kerb ramp in accordance with Newcastle City Council Standard drawing A1300.
	Construct retaining wall. Details to be confirmed during detailed design stage
● G10.00	Proposed grade level
● IL10.00	Proposed invert level
● P10.00	Proposed finished surface level

Pavement Legend

	Road Pavement Details to be confirmed by project Geotechnical Engineer at detailed design stage.
	Hardscape Pavement Details to be confirmed by project Geotechnical Engineer at detailed design stage.
	Softscape Areas Details to be confirmed by project Landscape Architect at detailed design stage.
	Pavement Reinstatement Refer to drawing 1061 for details.

All pavements are indicative only. To be confirmed by Geotechnical Engineer. All works in accordance with Newcastle City Council requirements.

P3	03.07.17	JN	Issued for DA	SR	JG
P2	23.06.17	DRC	Issued for Review	SR	JG
P1	07.06.17	DRC	Issued for Review (Work in Progress)	SR	JG
Rev	Date	Drawn	Description	Ch'kd	App'd

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Title	Wickham Wool Stores Development Application Legends Sheet
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Designed	P.Cavanagh		Eng check	J.Gilligan	
Drawn	D.Chapman		Coordination	A.Zou	
Dwg check	A.Singh		Approved	J.Gilligan	
Scale at A1	Status		Rev	Sec	
NTS	PRE		P3	STD	
Drawing Number					
MMD-366163-C-DR-00-DA-1003					

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Note
Bollards and wheel stops to be provided throughout the site. Refer to Architects plans for details.

Make smooth connection to existing verge levels.
Verge works are subject to future refinement during detailed design stage.

Existing sewer to be demolished and removed. In accordance with service providers requirements.

Existing Ø350 high pressure liquid petroleum oil product line to be retained and protected in accordance with service providers requirements.

Existing overhead power and telecommunication lines to be relocated below ground. In accordance with service providers requirements.

Demolish and remove existing vehicular crossing and driveway pavement

For continuation refer to Dwg No 1015

For continuation refer to Dwg No 1013

Plan
1:200

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1:200



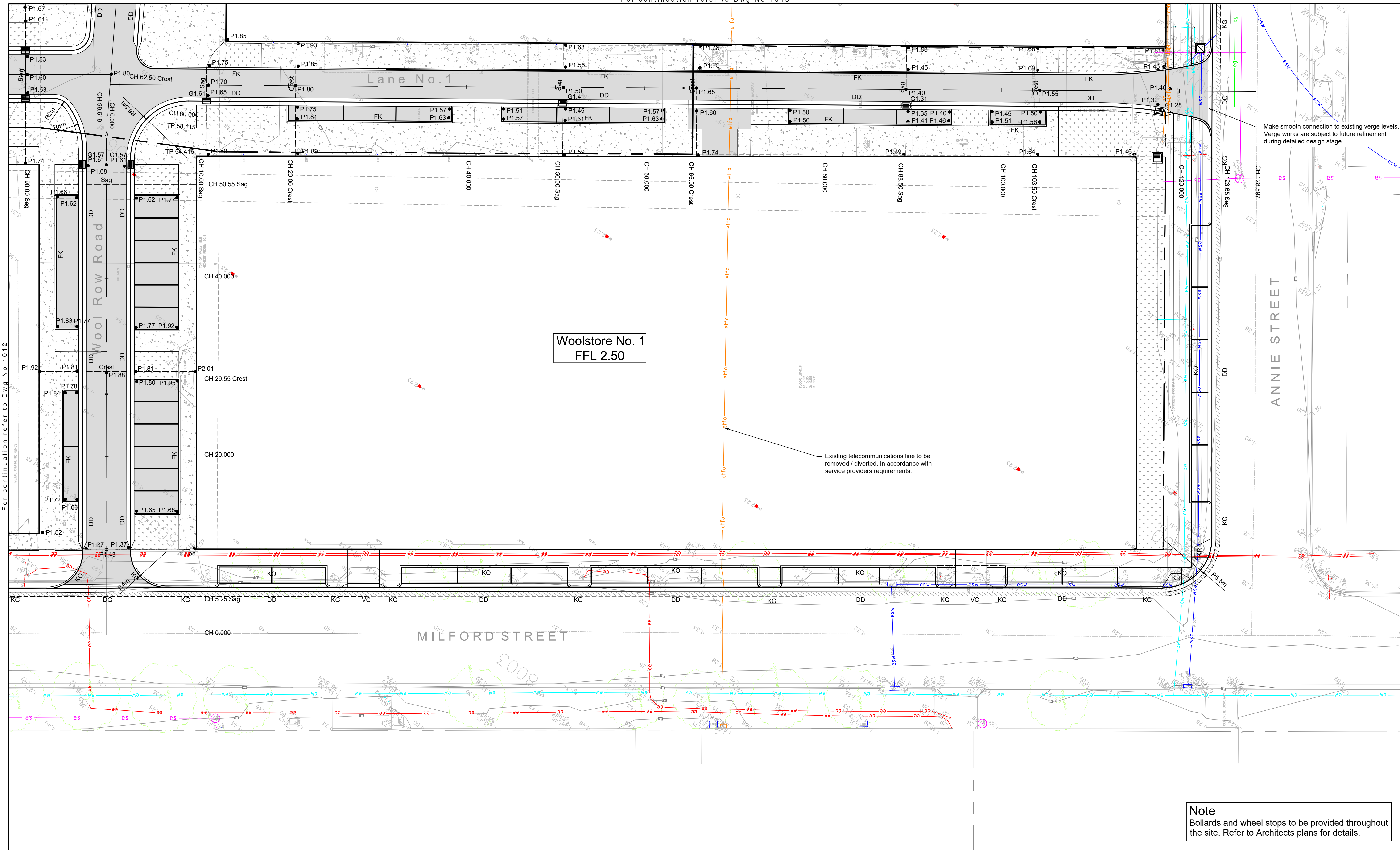
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Client
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Title
Wickham Wool Stores
Development Application
Siteworks Grading Plan
Sheet 1

Designed	P.Cavanagh	Eng check	J.Gilligan
Drawn	D.Chapman	Coordination	A.Zou
Dwg check	A.Singh	Approved	J.Gilligan
Scale at A1	Status	Rev	Sec
1:200	PRE	P2	STD
Drawing Number MMD-366163-C-DR-00-DA-1012			

For continuation refer to Dwg No 1015



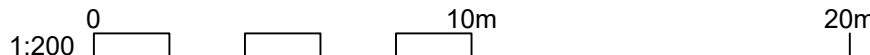
Note
Bollards and wheel stops to be provided throughout the site. Refer to Architects plans for details.

Plan
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P2	03.07.17	JN	Issued for DA	SR	JG
P1	23.06.17	DRC	Issued for Review	SR	JG



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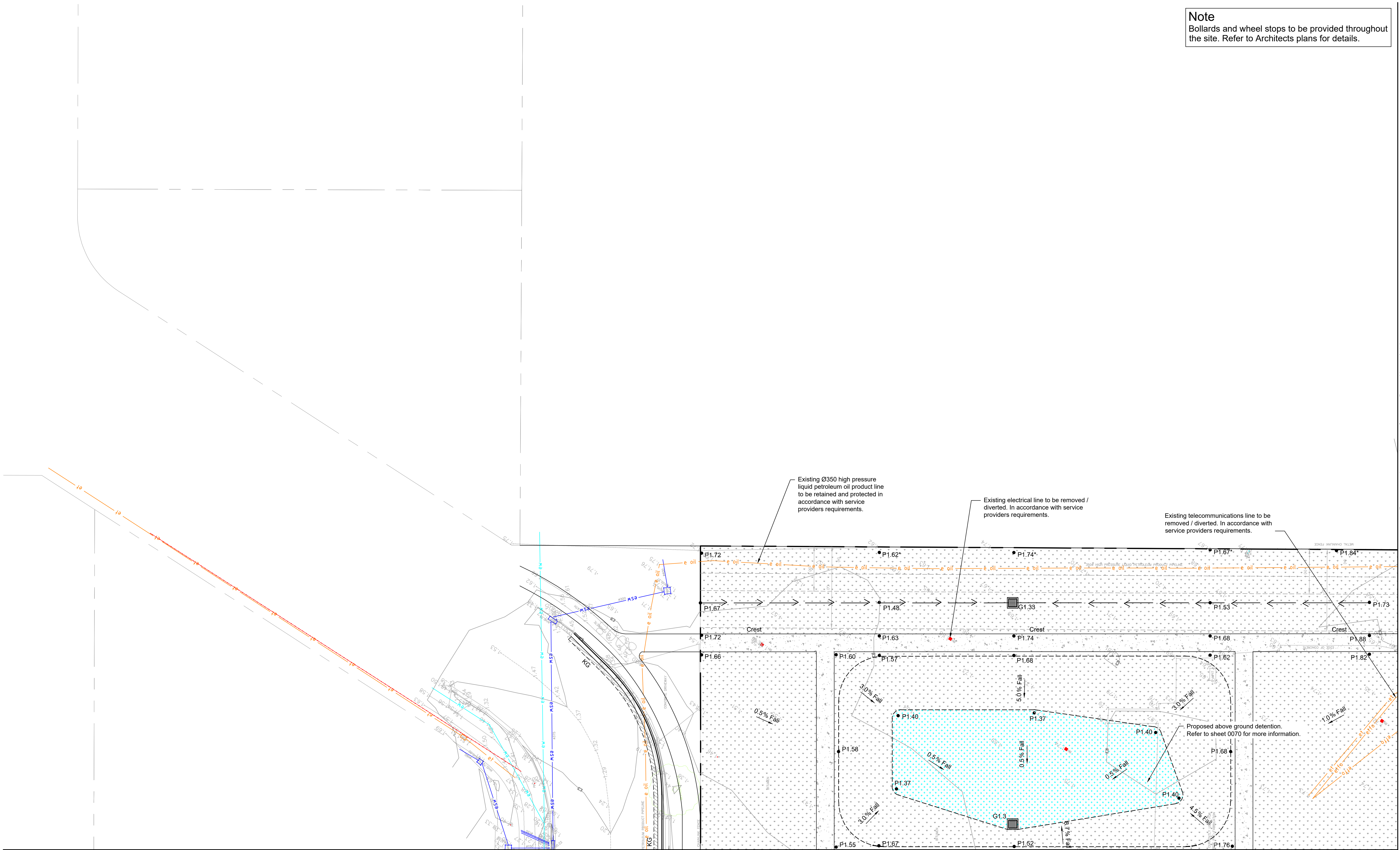
Title
**Wickham Wool Stores
Development Application
Sitereorks Grading Plan
Sheet 2**

Designed	P.Cavanagh	Eng check	J.Gilligan
Drawn	D.Chapman	Coordination	A.Zou
Dwg check	A.Singh	Approved	J.Gilligan
Scale at A1	Status	Rev	Sec
1:200	PRE	P2	STD
Drawing Number MMD-366163-C-DR-00-DA-1013			

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Note
Bollards and wheel stops to be provided throughout the site. Refer to Architects plans for details.

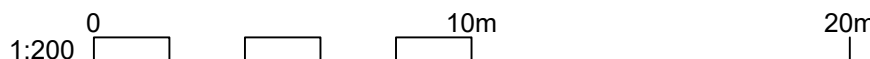


For continuation refer to Dwg No 1012

Plan

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Title
**Wickham Wool Stores
Development Application
Siteworks Grading Plan
Sheet 3**

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Dwg check	A.Singh	Approved	J.Gilligan
Scale at A1	Status	Rev	Sec
1:200	PRE	P2	STD
Drawing Number MMD-366163-C-DR-00-DA-1014			

Note
Bollards and wheel stops to be provided throughout the site. Refer to Architects plans for details.

Woolstore No. 3
FFL 2.50

Existing electrical substation to be retained / removed.
In accordance with service providers requirements.

Existing Ø350 high pressure
liquid petroleum oil product line
to be retained and protected in
accordance with service
providers requirements.

Potential service conflicts. To be investigated
further during detail design stage.

Make smooth connection to existing verge levels.
Verge works are subject to future refinement
during detailed design stage.

Transition from proposed levels to
existing over 2.5m. Make smooth
connection with existing (typ).

Existing telecommunications line to be
removed / diverted. In accordance with
service providers requirements.

Woolstore No. 2
FFL 2.50

Plan

1:200

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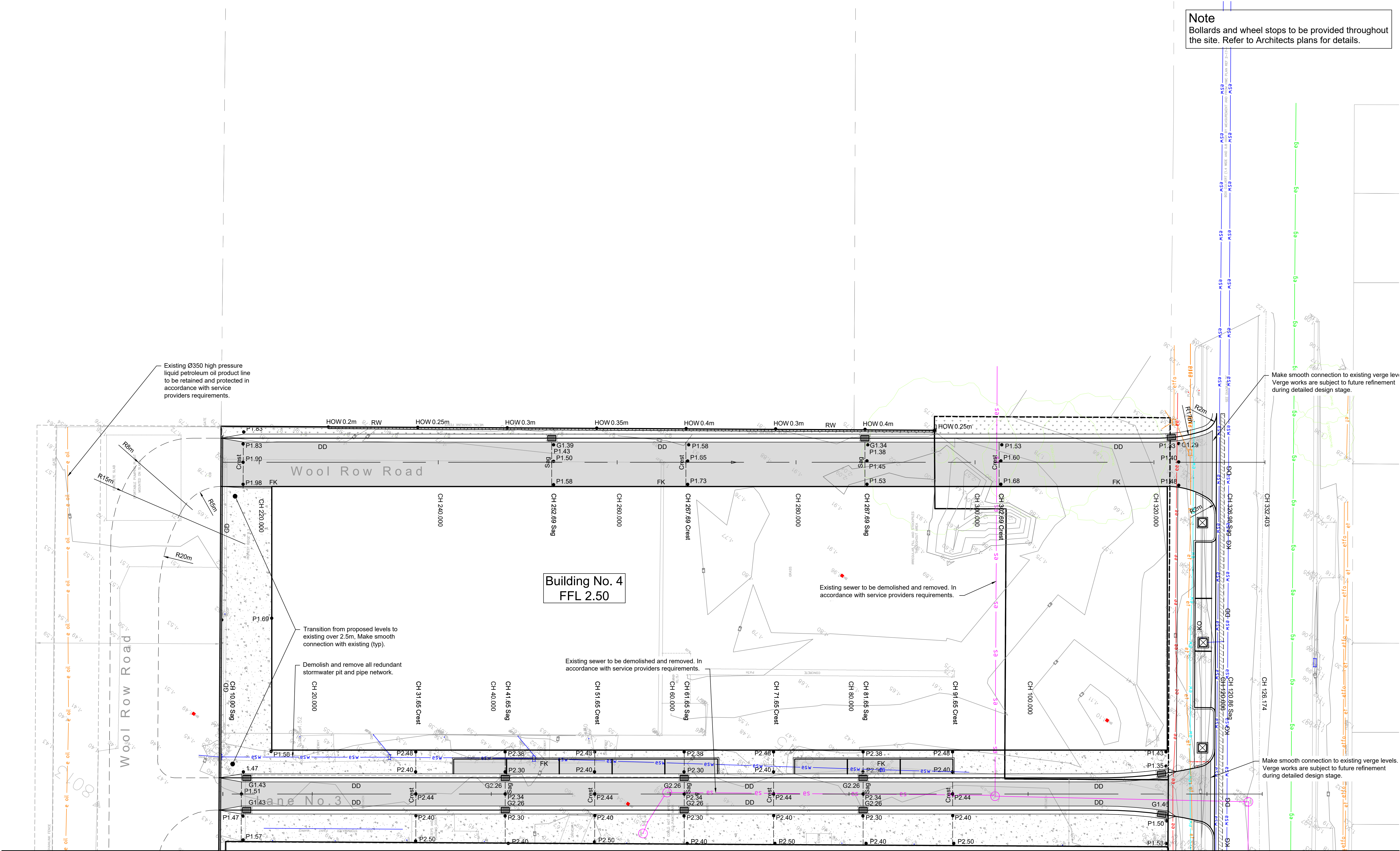
Client
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Title
**Wickham Wool Stores
Development Application
Siteworks Grading Plan
Sheet 4**

Preliminary - Not for Construction

Designed	P.Cavanagh	Eng check	J.Gilligan
Drawn	D.Chapman	Coordination	A.Zou
Dwg check	A.Singh	Approved	J.Gilligan
Scale at A1	Status	Rev	Sec
1:200	PRE	P2	STD
Drawing Number MMD-366163-C-DR-00-DA-1015			

Note
Bollards and wheel stops to be provided throughout the site. Refer to Architects plans for details.



For continuation refer to Dwg No 1015

Plan

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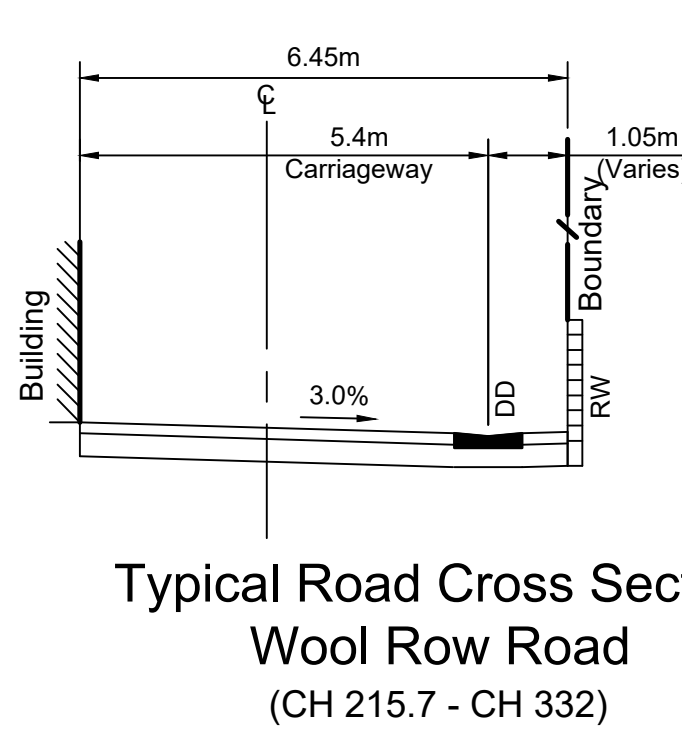
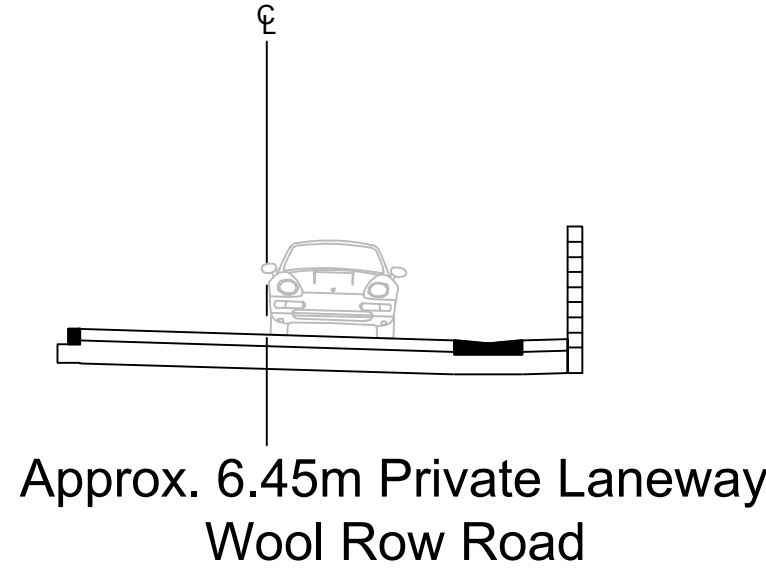
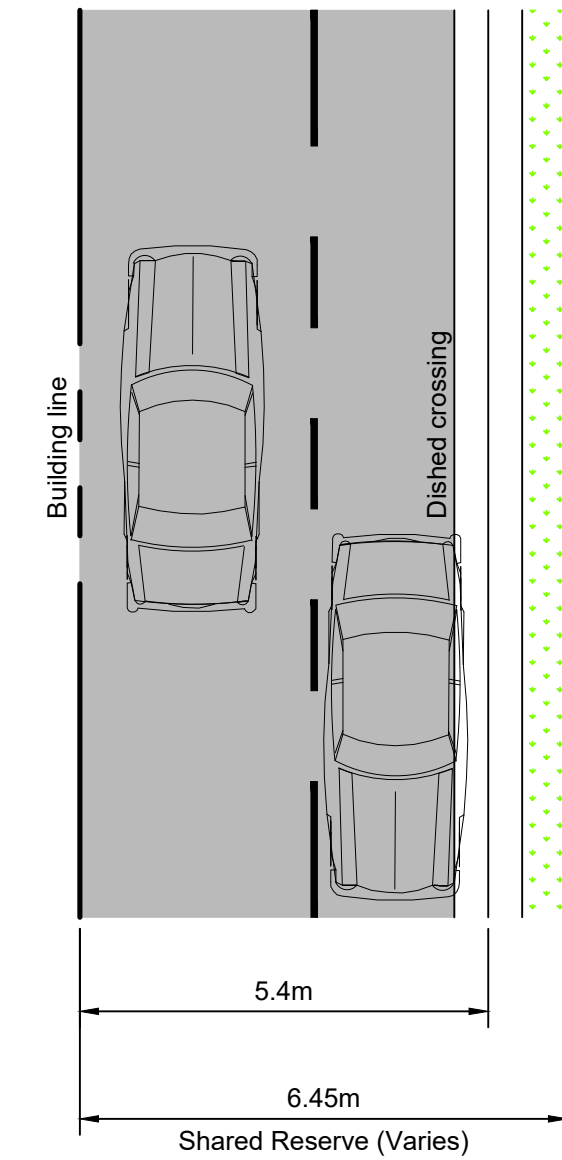
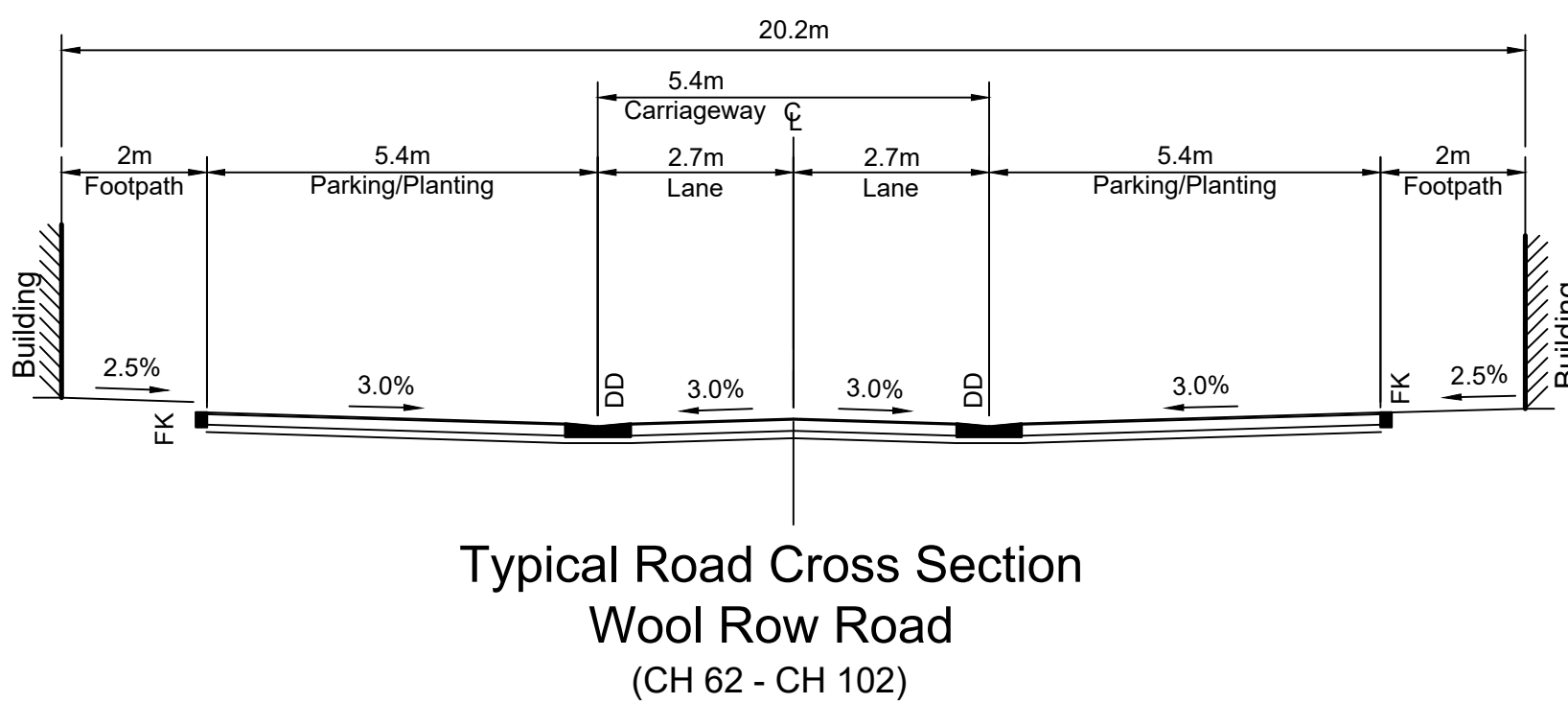
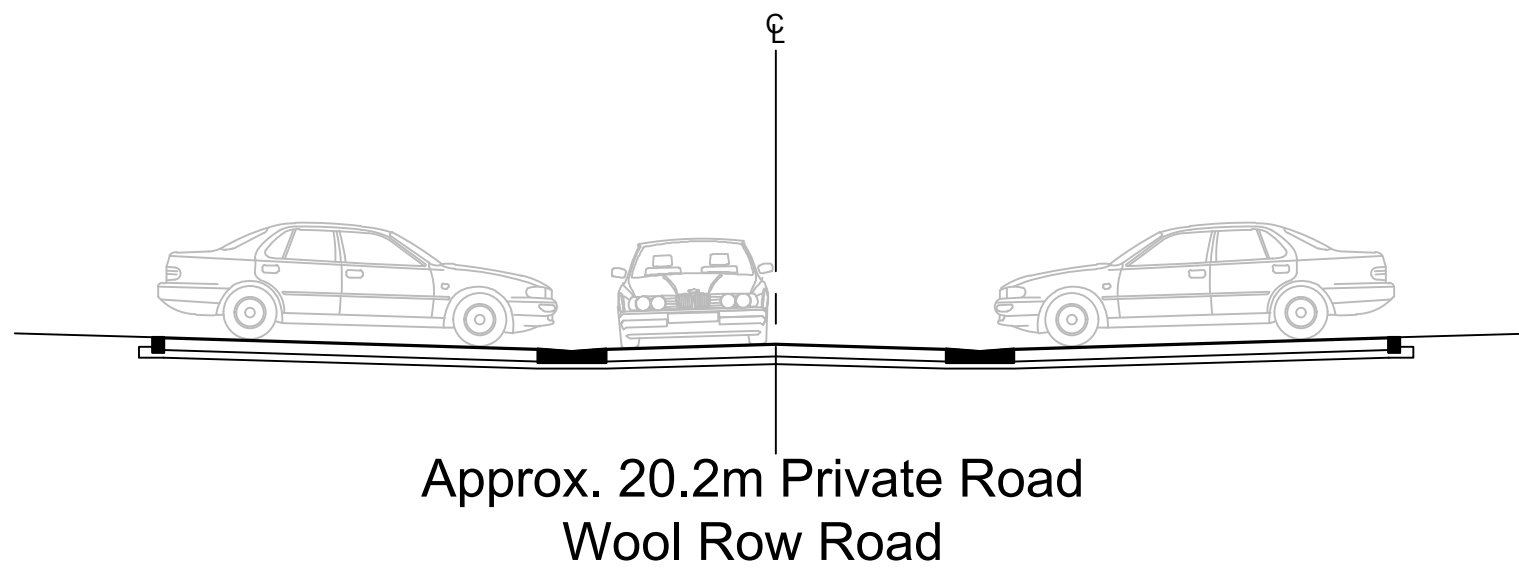
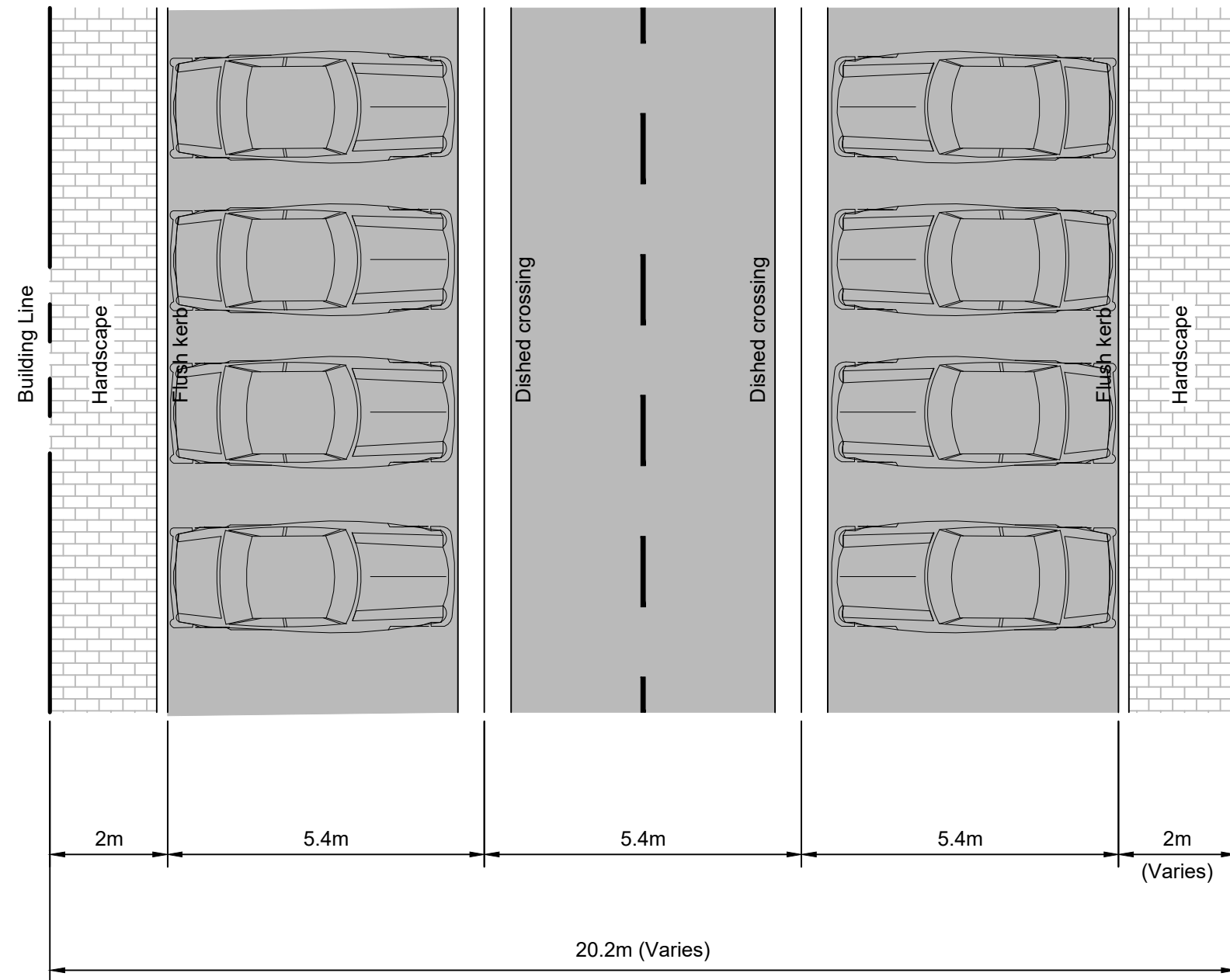
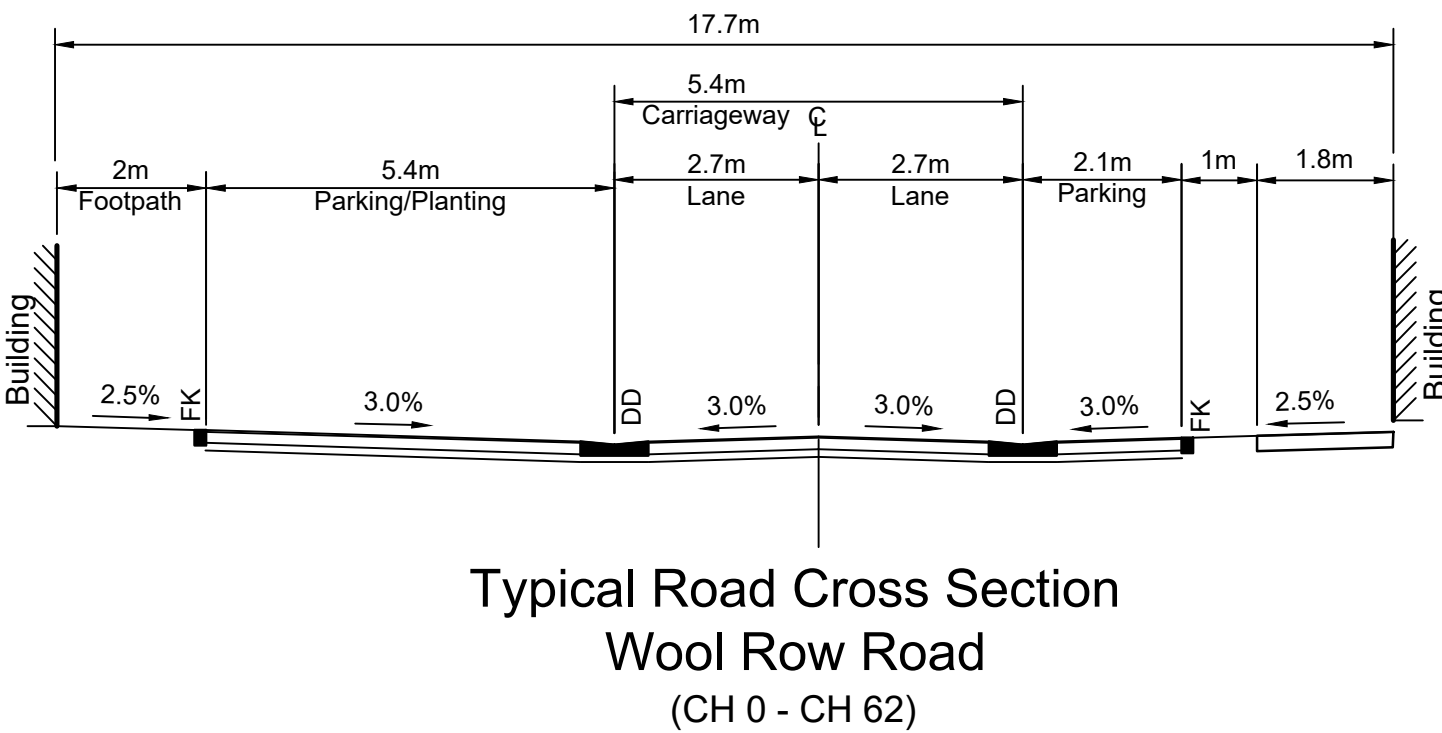
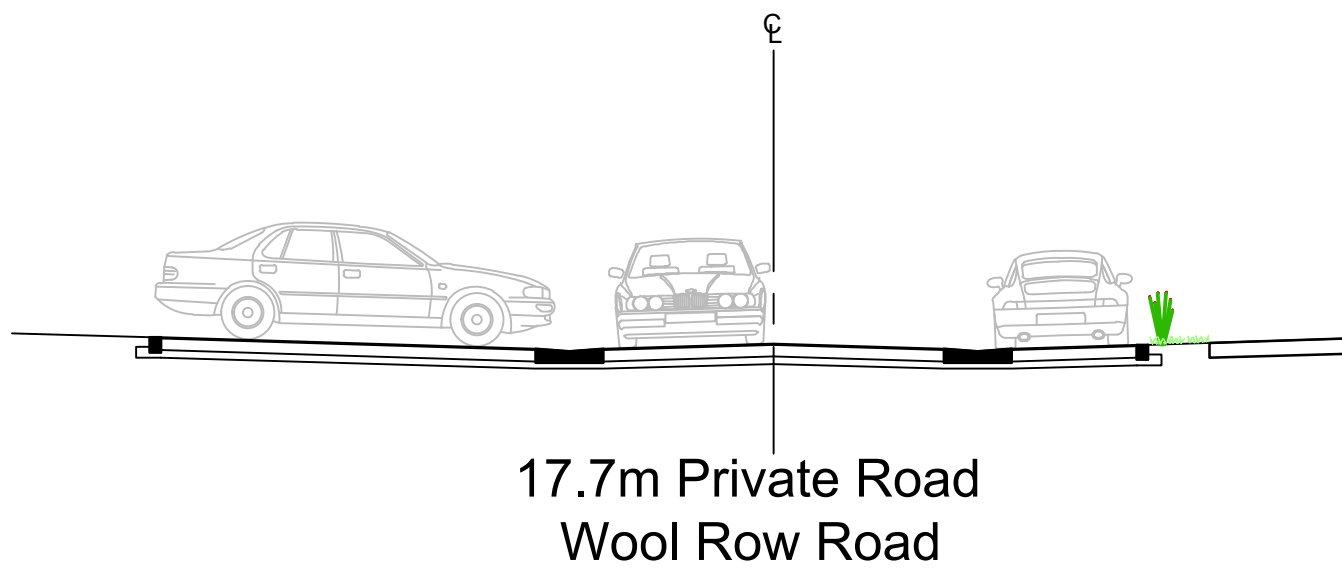
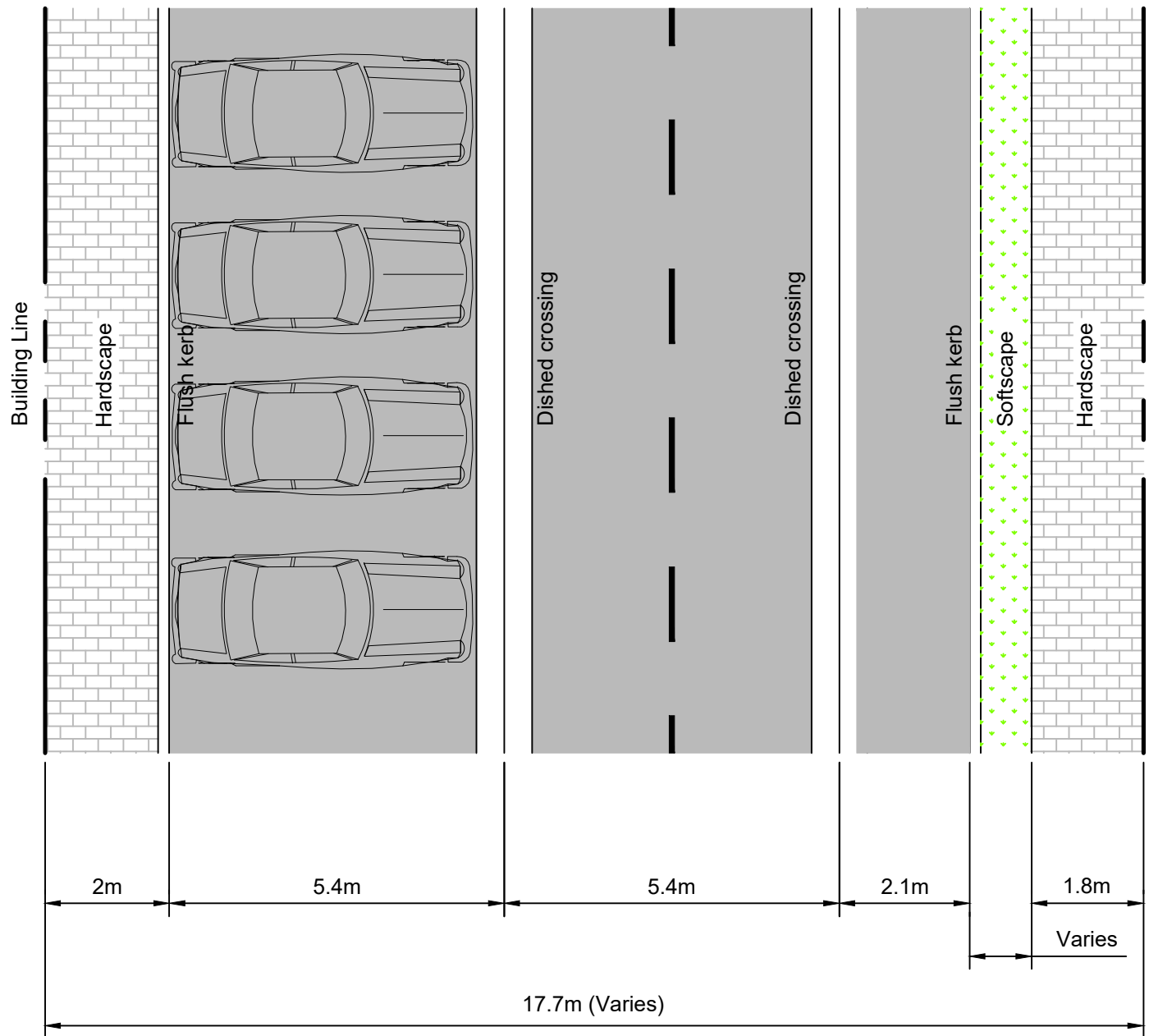
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Title
**Wickham Wool Stores
Development Application
Sitereorks Grading Plan
Sheet 5**

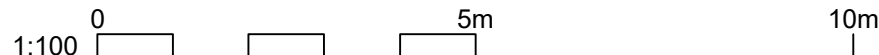
Preliminary - Not for Construction

Designed	P.Cavanagh	Eng check	J.Gilligan
Drawn	D.Chapman	Coordination	A.Zou
Dwg check	A.Singh	Approved	J.Gilligan
Scale at A1	Status	Rev	Sec
1:200	PRE	P2	STD
Drawing Number MMD-366163-C-DR-00-DA-1016			



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P2	23.06.17	DRC	Issued for Review	SR	JG
P1	07.06.17	DRC	Issued for Review (Work in Progress)	SR	JG



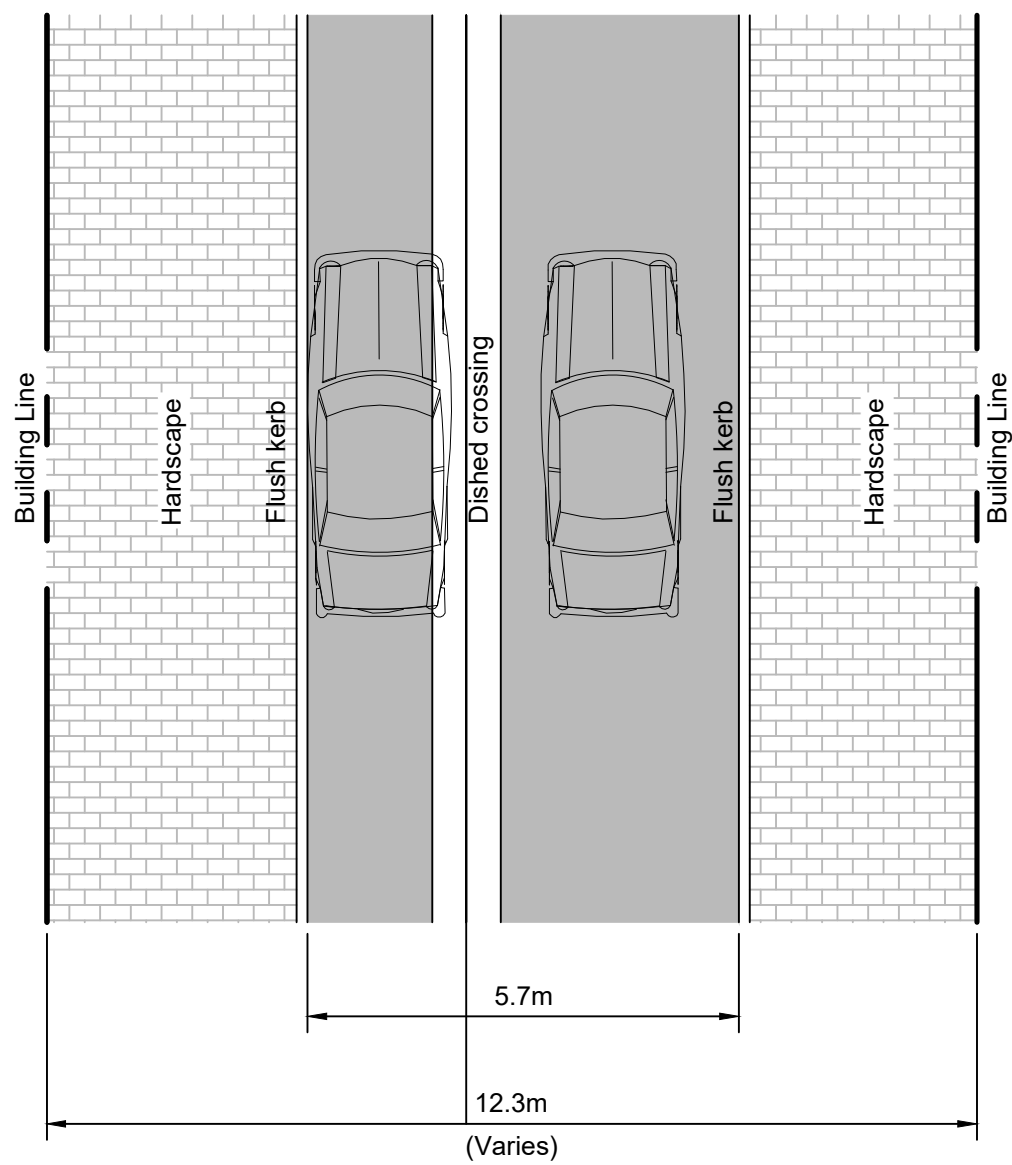
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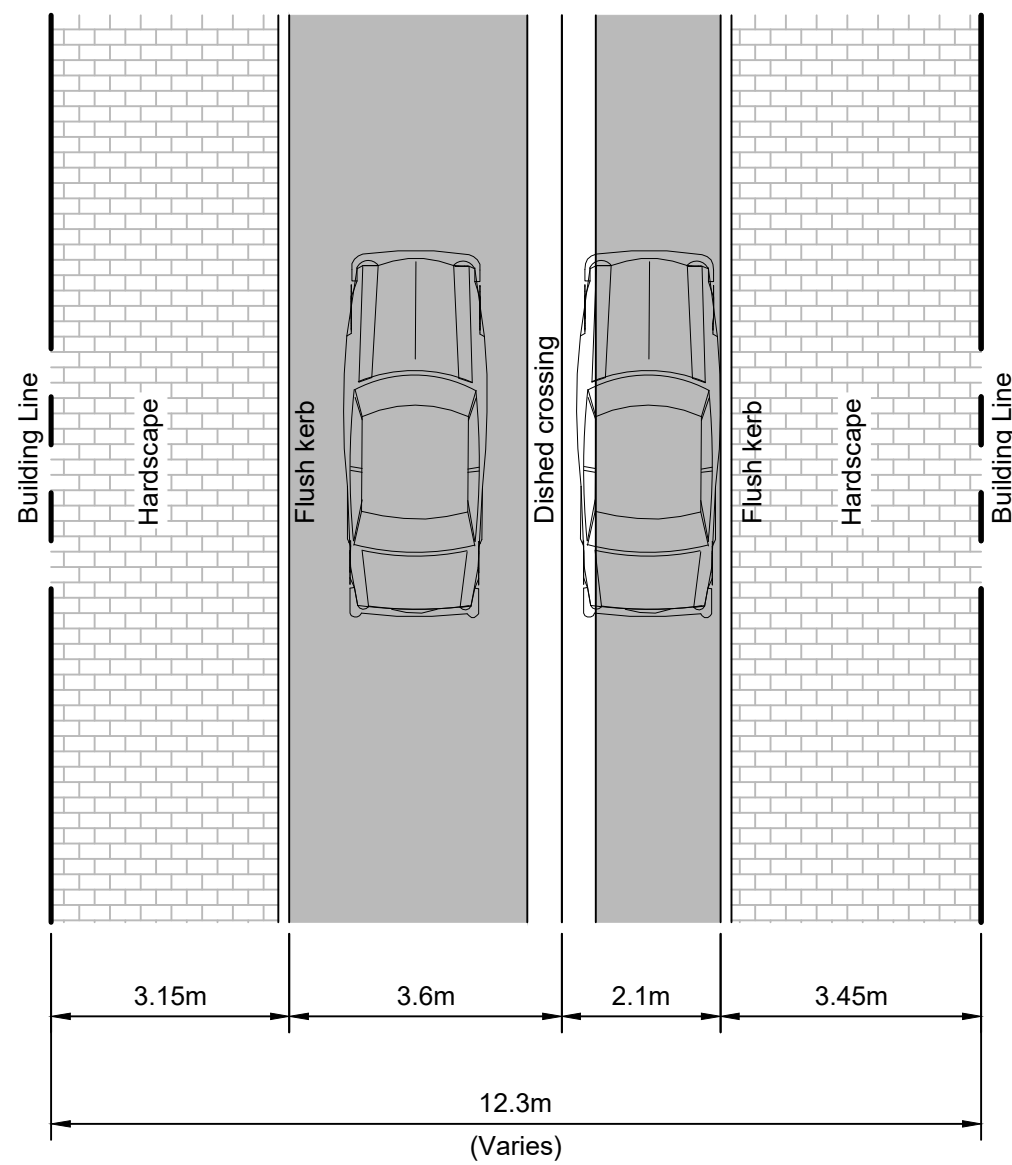
Title
Wickham Wool Stores
Development Application
Typical Road Cross Sections
Sheet 1

Designed	P.Cavanagh	Eng check	J.Gilligan
Drawn	D.Chapman	Coordination	A.Zou
Dwg check	A.Singh	Approved	J.Gilligan
Scale at A1	Status	Rev	Sec
1:500	PRE	P3	STD
Drawing Number MMD-366163-C-DR-00-DA-1020			

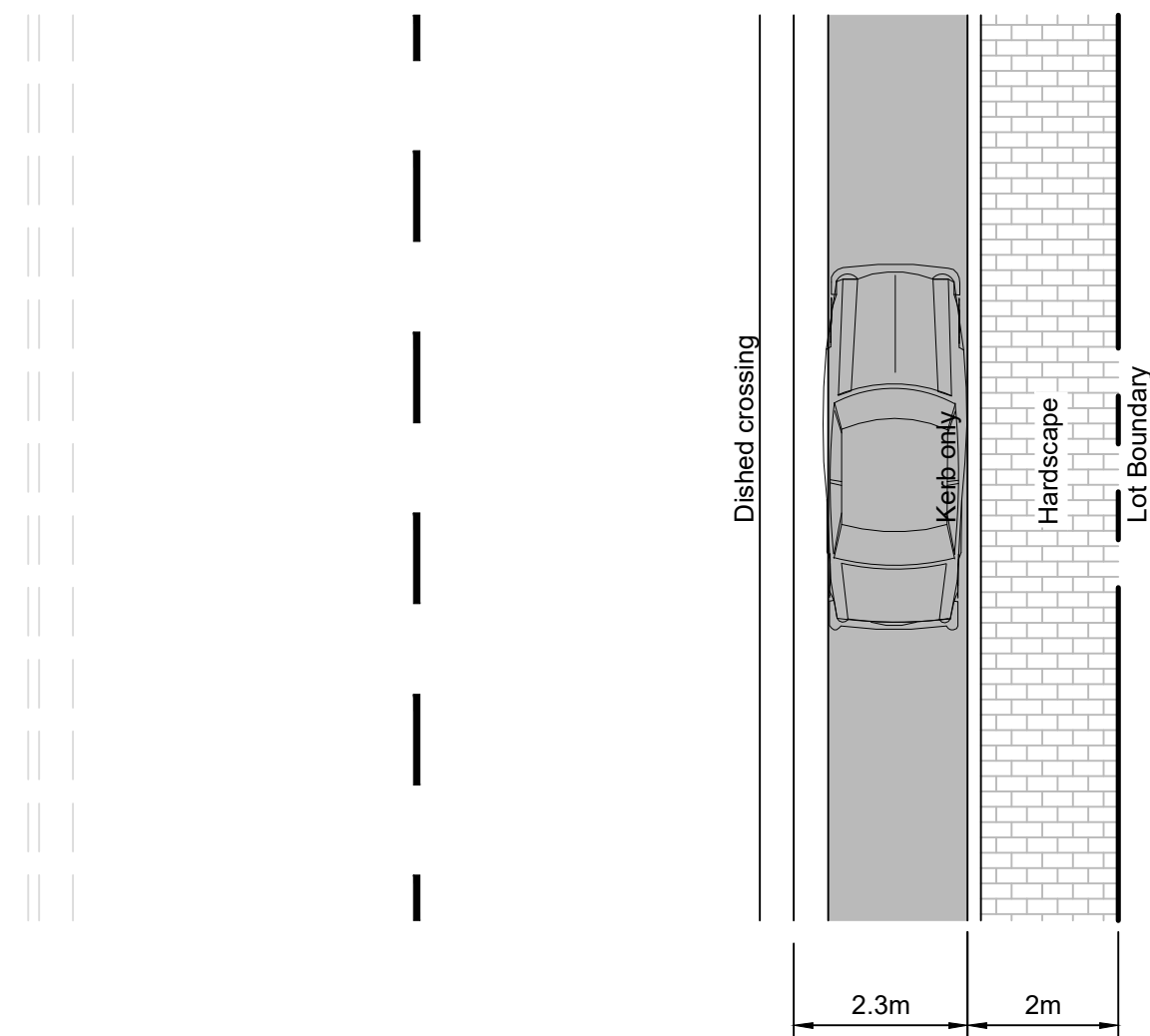
Preliminary - Not for Construction



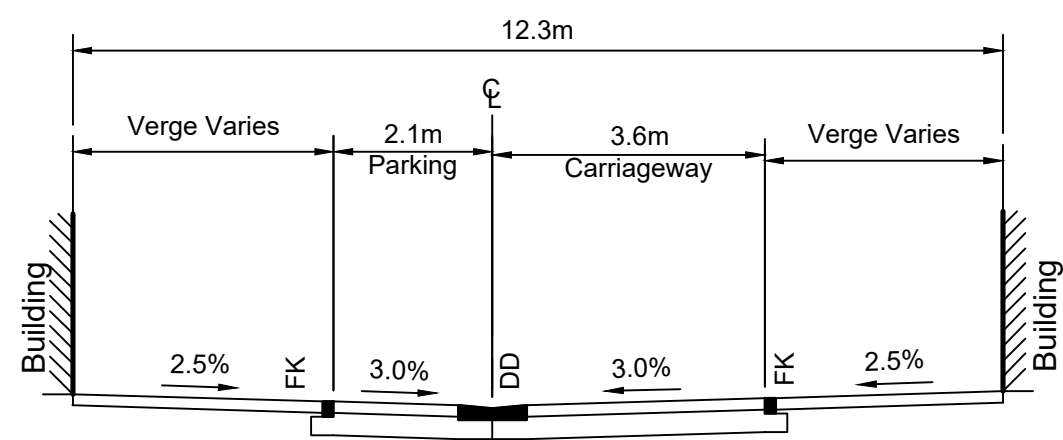
Approx. 12.3m Private Laneway / Shareway
Lane No. 1



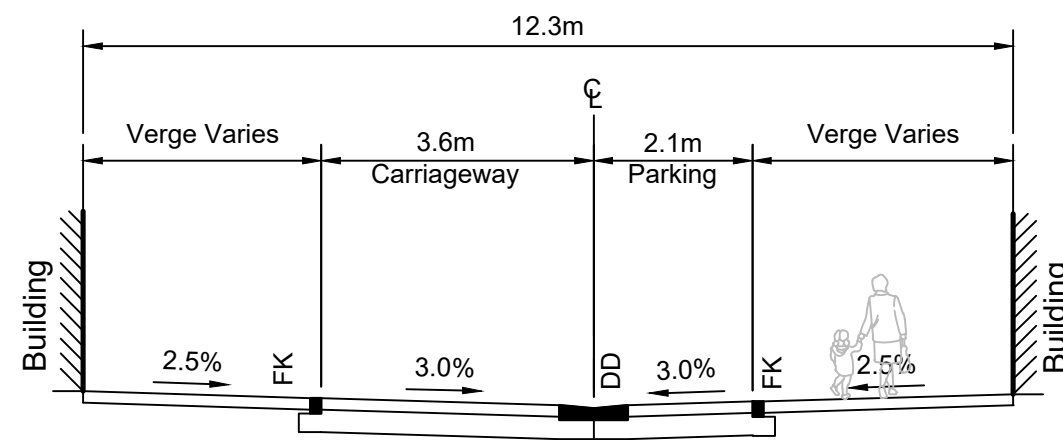
Approx. 12.3m Private Laneway / Shareway
Lane No. 2 and No. 3



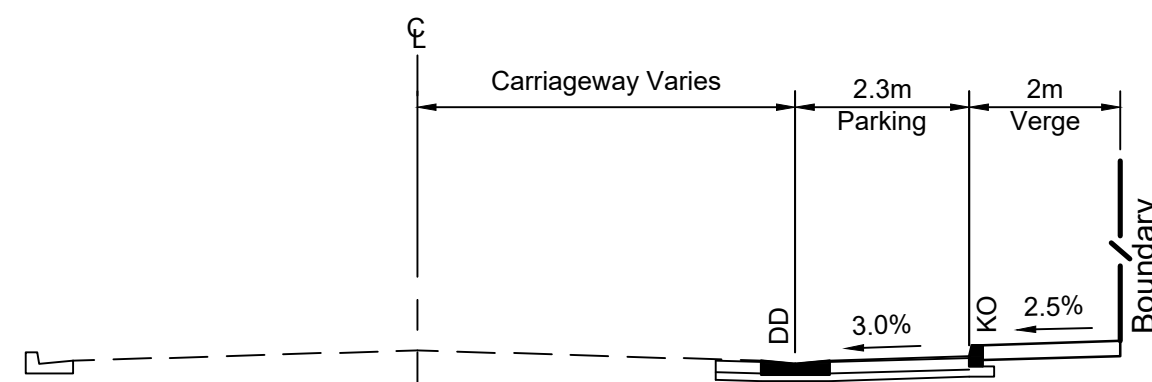
Parallel Parking and Verge Construction
Milford Street



Typical Road Cross Section
Lane No. 1



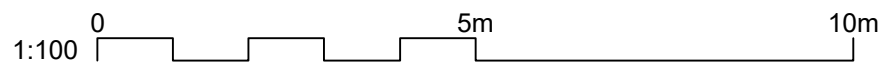
Typical Road Cross Section
Lane No. 2 and No. 3



Typical Road Cross Section
Milford Street

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P2	23.06.17	DRC	Issued for Review	SR	JG
P1	07.06.17	DRC	Issued for Review (Work in Progress)	SR	JG



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Client
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Title
**Wickham Wool Stores
Development Application
Typical Road Cross Sections
Sheet 2**

Designed	P.Cavanagh	Eng check	J.Gilligan
Drawn	D.Chapman	Coordination	A.Zou
Dwg check	A.Singh	Approved	J.Gilligan
Scale at A1	1:500	Status	PRE
Rev	P3	Sec	STD
Drawing Number	MMD-366163-C-DR-00-DA-1021		

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Soil and Water Management Legend

- Construct temporary sediment fence
- Install sandbag sediment traps
- Install sediment trap for drop inlet
- Construct temporary stabilised site entry with shaker grid
- Construct temporary sediment basin
- Construct temporary diversion bank

Note

This plan is a concept only. It is created to highlight some of the sediment and erosion control measures which may appear. The contractor is responsible for the final design and ensuring all measures are taken to protect the environment.

Construct temporary sediment basin. Refer detail on drawing 1021 (typ)

Sediment storage to be provided in accordance with Landcom's "Managing Urban Stormwater: Soils and Construction" Sediment basin volume to be confirmed during detailed design stage

Construct temporary sediment basin. Refer detail on drawing 1021 (typ)

Sediment storage to be provided in accordance with Landcom's "Managing Urban Stormwater: Soils and Construction" Sediment basin volume to be confirmed during detailed design stage

Install sandbag sediment trap for stormwater drainage pit. Refer detail on drawing 1021 (typ)

Install temporary sediment fence around perimeter of site. Refer detail on drawing 1021 (typ)

Construct temporary sediment trap for drop inlet (geotextile filter fabric). Refer detail on drawing 1021 (typ)

Construct temporary stabilised site entry with shaker grid. Refer detail on drawing 1021 (typ)

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Title
**Wickham Wool Stores
Development Application
Soil and Water Management Plan**

Designed	P.Cavanagh	Eng check	J.Gilligan
Drawn	D.Chapman	Coordination	A.Zou
Dwg check	A.Singh	Approved	J.Gilligan
Scale at A1	NTS	Status	PRE
Rev	P3	Sec	STD
Drawing Number MMD-366163-C-DR-00-DA-1030			

Soil and Water Management Notes

General Instructions

SWM01 These plans present a conceptual soil and water management plan (SWMP) only and shows a possible way of managing soil and erosion. The contractor shall be responsible for the establishment and management of the site and preparing a detailed plan and obtaining approval from the relevant authority prior to the commencement of any works.

SWM02 This plan is to be read in conjunction with the engineering plans and any other plans, written instructions, specification or documentation that may be issued and relating to development of the subject site.

SWM03 The contractor will ensure that all soil and water management works are consistent with 'Managing Urban Stormwater - Soils and Construction' - also known as 'The Blue Book'.

SWM04 All builders and sub-contractors shall be informed of their responsibilities in minimising the potential for soil erosion and pollution to downslope lands and waterways.

Erosion Control

SWM05 Water shall be prevented from entering the permanent drainage system until sediment concentration is less than or equal to 50mg/L, ie the catchment area has been permanently landscaped and / or any likely sediment has been filtered through an approved structure.

SWM06 Any sand used in the concrete curing process (spread over the surface) will be removed as soon as possible and within 10 working days from placement.

SWM07 Acceptable receptors will be constructed for concrete and mortar slurries, paints, acid washings, light-weight waste materials and litter.

SWM08 'Sediment' fencing will be installed as indicated on the plans and at the direction of site superintendent to ensure containment of sediment. The sediment fencing will outlet or overflow under stabilised conditions into the sediment basin, to safely convey water into a suitable filtering system should the pores in the fabric block.

SWM09 Stockpiles should not be located within 5m of trees and hazard areas, including likely areas of concentrated or high velocity flows such as waterways, drainage lines, paved areas and driveways. Where they are within 5m from such areas, special sediment control measures should be taken to minimise possible pollution to downstream waters. Measures should also be applied to prevent the erosion of the stockpile.

SWM10 All cut and fill batters are to be seeded and mulched within 14 days of completion of formation.

SWM11 Any existing trees which form part of the final landscaping plan will be protected from construction activities by-

- a. Protecting them with barrier fencing or similar materials installed outside the drip line,
- b. Ensuring that nothing is nailed to them,
- c. Prohibiting paving, grading, sediment wash or placing of stockpiles within the drip line except under the following conditions,

(i) Encroachment only occurs on one side and no closer to the trunk than either 1.5 metres or half the distance between the outer edge of the drip line and the trunk, which ever is the greater,

(ii) A drainage system that allows air and water to circulate through the root zone (e.g. a gravel bed) is placed under all fill layers of more than 300 millimetres depth

(iii) Care is taken.

SWM12 During windy weather, large disturbed unprotected areas should be kept moist (not wet) by sprinkling with water to keep dust under control.

SWM13 Temporary protection from erosive forces will be undertaken on lands where final shaping has not been completed but works are unlikely to proceed for periods of two months or more (eg. on topsoil stockpiles). This may be achieved with a vegetative cover. A recommended listing of plant species for temporary cover is -

- i) autumn/winter sowing
 - oats/ryecorn at 20 kg/ha
 - japanese millet at 10 kg/ha
- ii) spring/summer sowing
 - japanese millet at 20 kg/ha
 - oats/ryecorn at 10 kg/ha

SWM14 Diversion banks / channels will be rehabilitated as soon as possible and within 5 working days from their final shaping. Other than in the winter months, suitable materials include turf grasses such as Couch or Kikuyu. During winter, or at other times when temporary rehabilitation (more than 3 months) is required, it is suggested that hessian cloth is used but only if tacked with appropriate pegs and an anionic bitumen emulsion. Foot and vehicular traffic should be kept away from these areas.

SWM15 Undertake site development works in accordance with the engineering plans. Where possible, phase development so that land disturbance is confined to areas of workable size.

Construction Sequence

SWM16 Where practical, the soil erosion hazard on the site should be kept as low as possible. To this end, works should be undertaken in the FOLLOWING SEQUENCE -

- (i) Install inlet sediment traps to all gully pits fronting the site,
- (ii) Install a 1.8m chain wire fence around the boundaries and attach hessian cloth or similar to it on the windward side (ties at the top, centre and bottom and at 1m intervals or as instructed by the superintendent),
- (iii) Install geofabric sediment fence and sediment traps around all permanent stormwater reticulation structures as shown on the plan,
- (iv) Construct stabilised construction entrance as shown on the plan or to location as determined by superintendent,
- (v) Install diversion banks along the boundary where required, rehabilitate disturbed lands downslope from the basins within 20 working days,
- (vi) Ensure that the sediment basin is directed onto a turfed area and drains to a suitable location. A temporary stormwater line may be necessary to convey the flows to this location. Construct diversion channels at the boundary to drain into the sediment basin as shown on plans,
- (vii) At completion stabilise site and decommission sediment basin and all erosion control devices.

SWM17 Temporary soil and water management structures will be removed only after the lands they are protecting are rehabilitated.

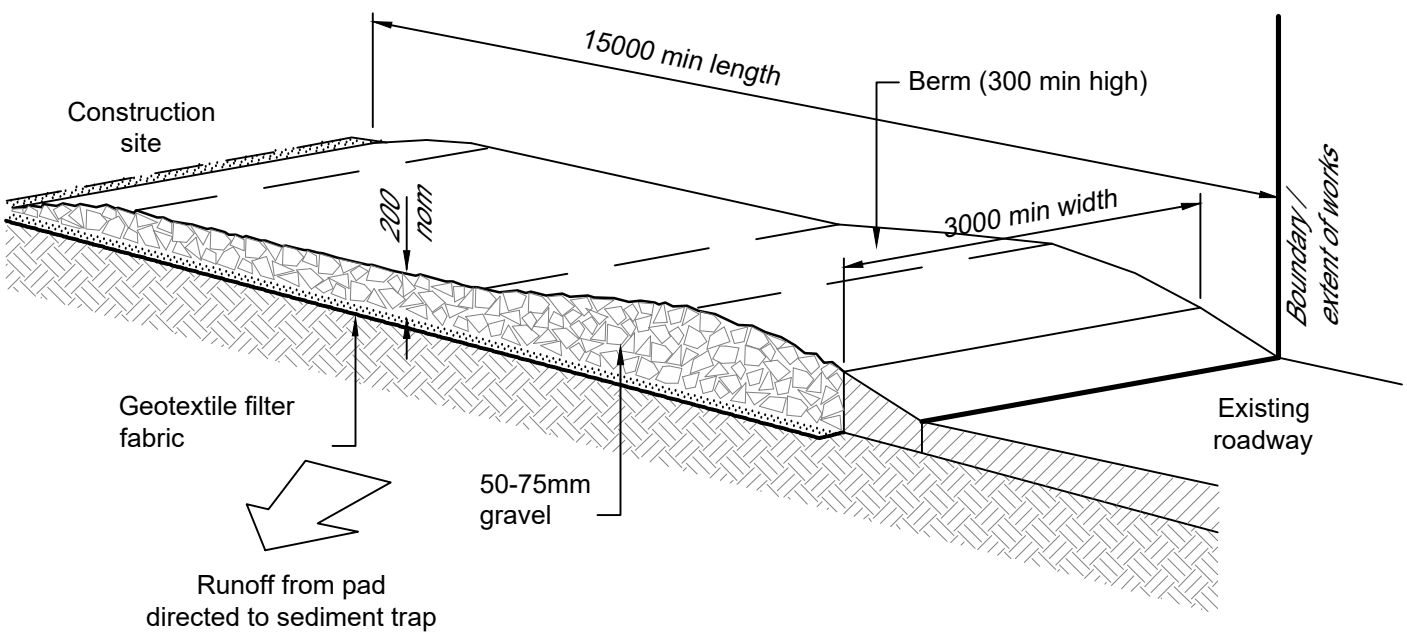
SWM18 Final site landscaping will be undertaken as soon as possible and within 20 working days from completion of construction activities.

Site Inspection and Maintenance

SWM19 At least weekly and after every rain fall event, the contractor will inspect the site and ensure that -

- (i) Drains and all sediment control devices operate effectively and initiate repair or maintenance as required,
- (ii) Receptors for concrete and mortar slurries, paints, acid washings, light-weight waste materials and litter are to be emptied as necessary. Disposal of waste shall be in a manor approved by the superintendent,
- (iii) Spilled sand (or other materials) is removed from hazard areas, including likely areas of concentrated or high velocity flows such as waterways, gutters, paved areas and driveways,
- (iv) Sediment is removed from basins and / or traps when less than 20m³ of trapping capacity remain per 1000m² of disturbed lands, and / or less than 500mm depth remains in the settling zone. Any collected sediment will be disposed in areas where further pollution to down slope lands and waterways is unlikely,
- (v) Rehabilitated lands have effectively reduced the erosion hazard and initiate upgrading or repair as appropriate.

SWM20 The contractor shall provide all monitoring control and testing.

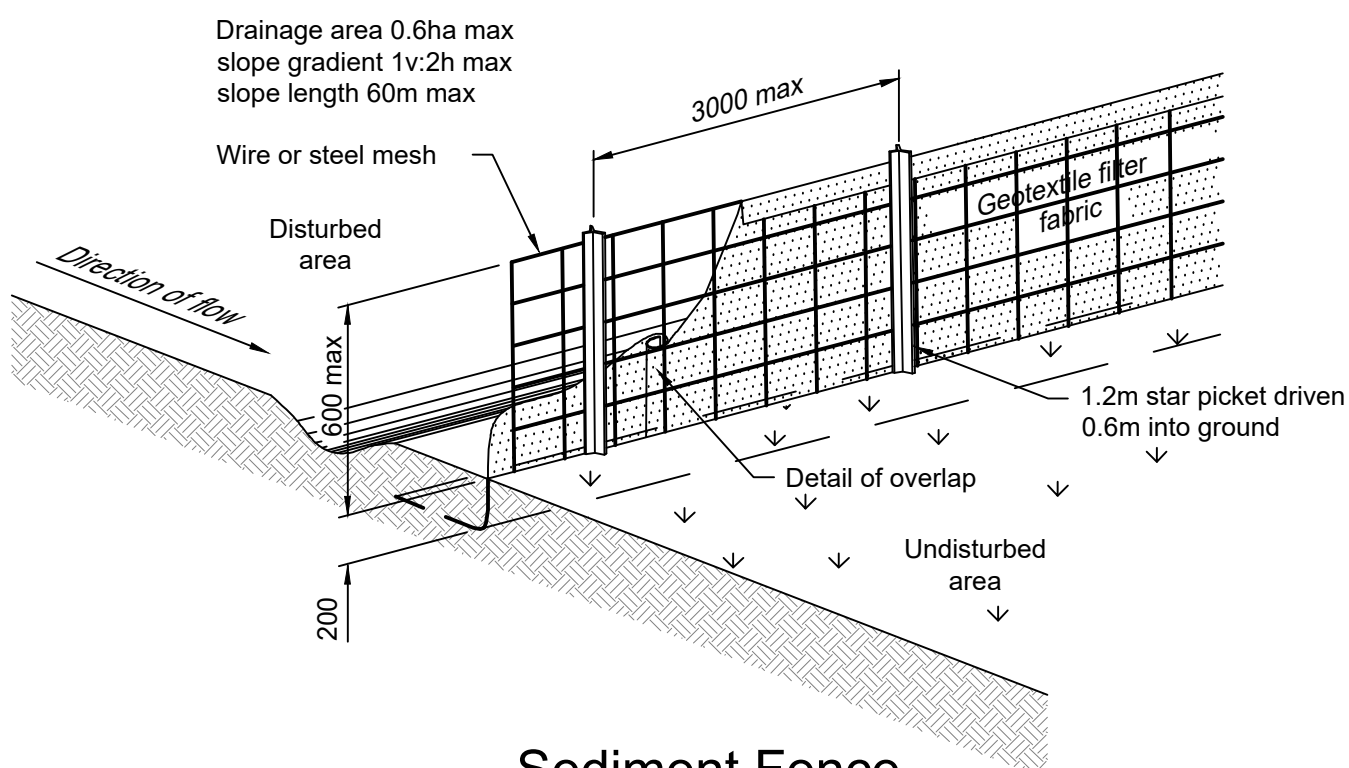


Temporary Site Entrance

NTS

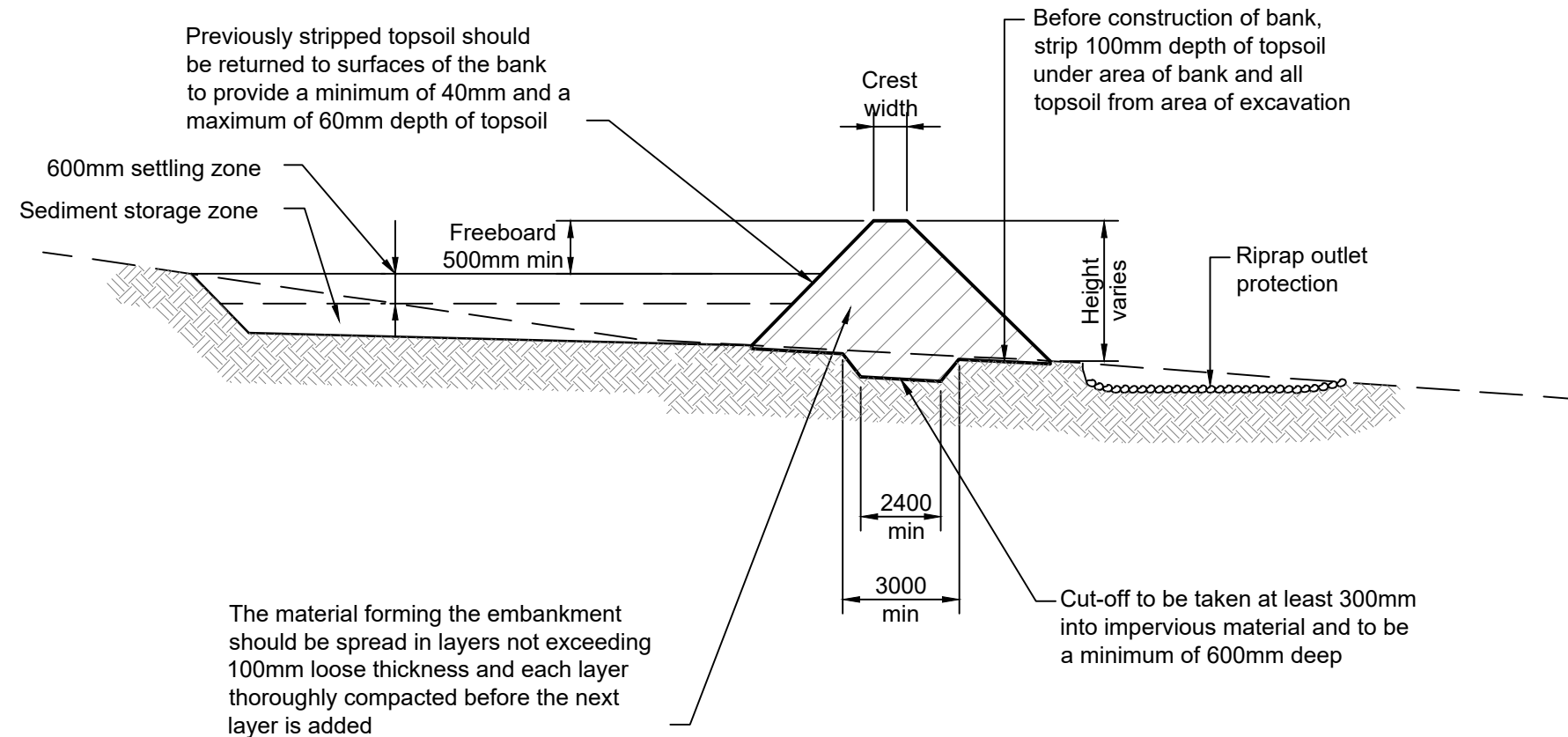
Maintenance

- The temporary access shall be maintained in a condition that prevents tracking or flowing of sediment onto public rights of way,
- This may require periodic top dressing with additional gravel as conditions demand and repair and/or cleanout of any measures used to trap sediment,
- All sediment spilled, dropped, washed or tracked onto public rights of way must be removed immediately.



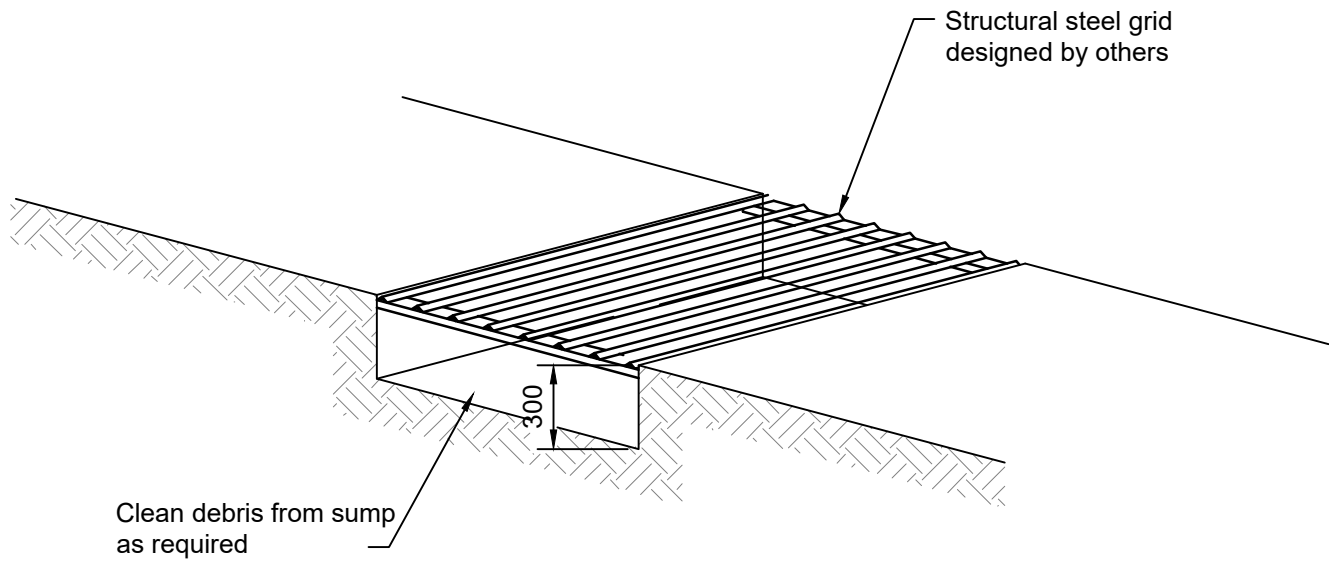
Sediment Fence (Geotextile Filter Fabric)

NTS



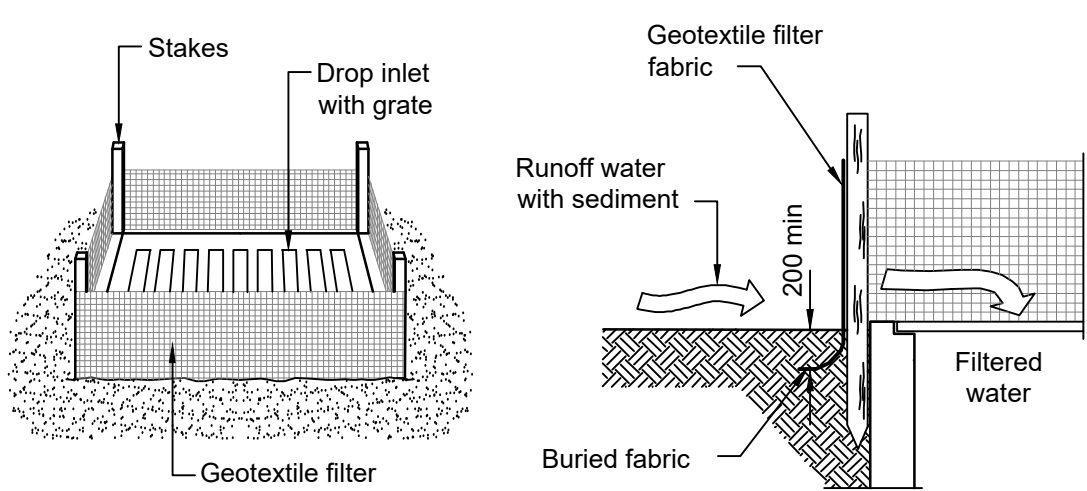
Sediment Basin (Typical) Cross Section - Type D and F Soils

NTS



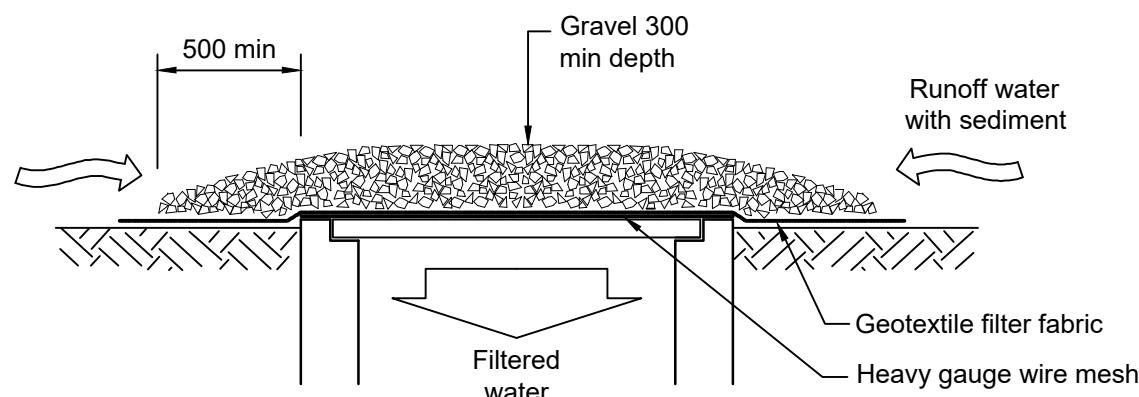
Shaker Pad

NTS



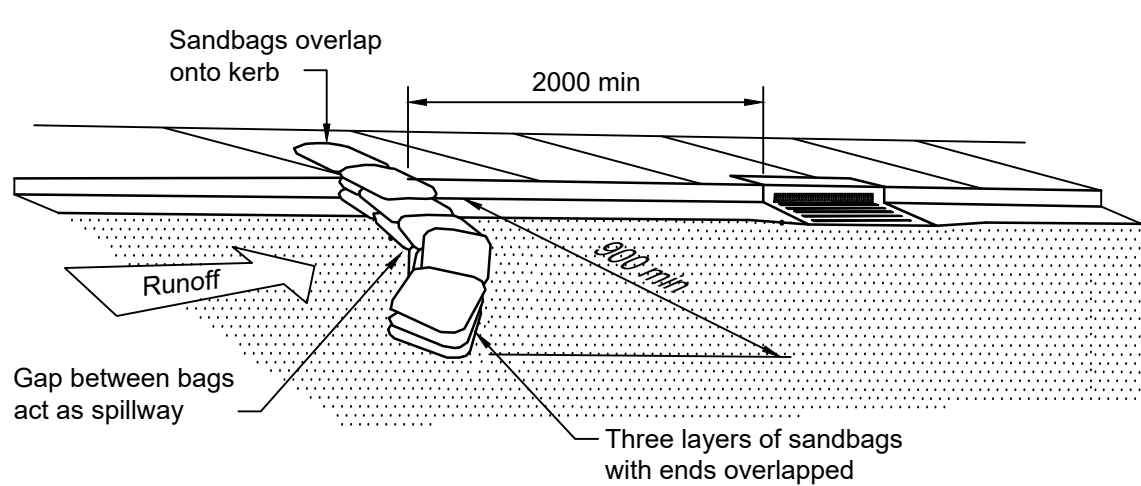
Sediment Trap for Drop Inlet (Geotextile Filter Fabric)

NTS



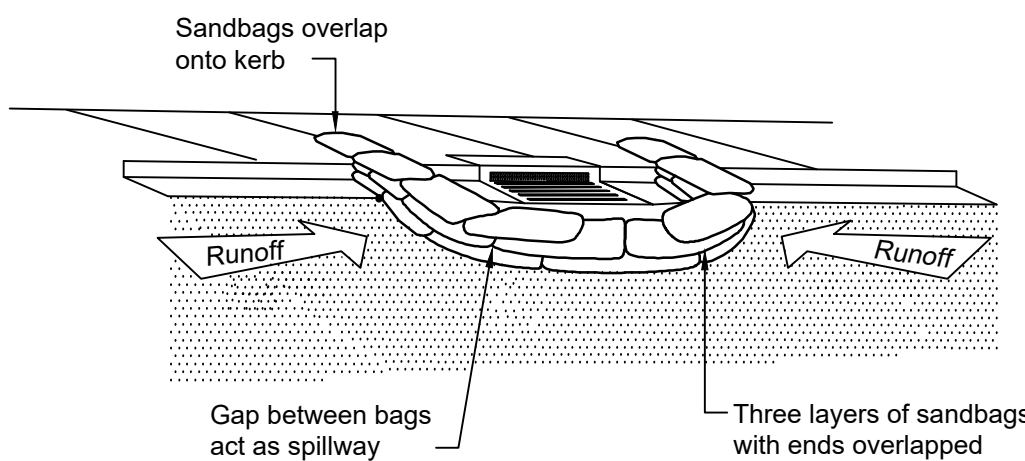
Sediment Trap for Drop Inlet (Wire Mesh and Gravel)

NTS



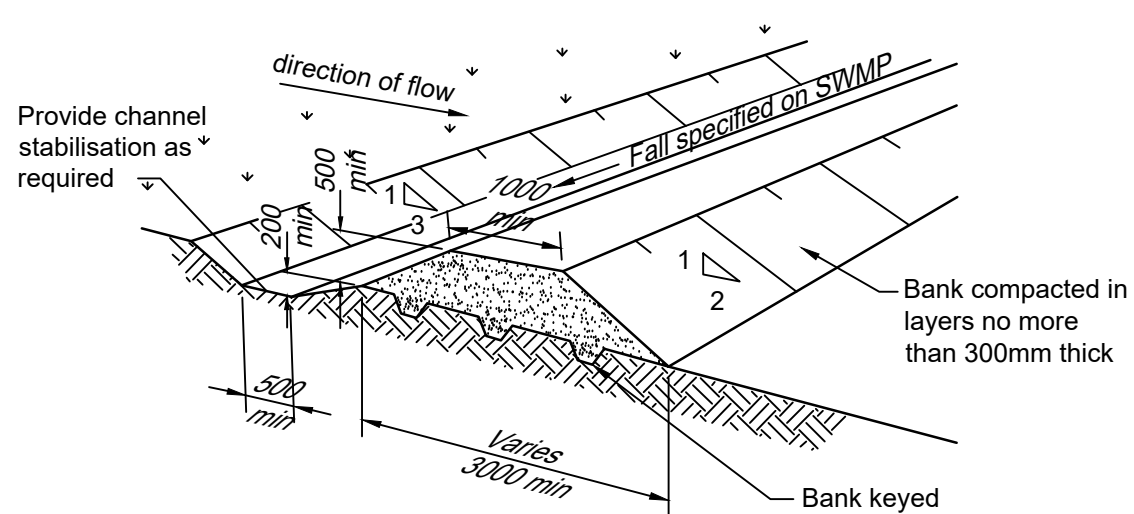
Sediment Trap for Kerb Inlet (On Grade - Sandbag)

NTS



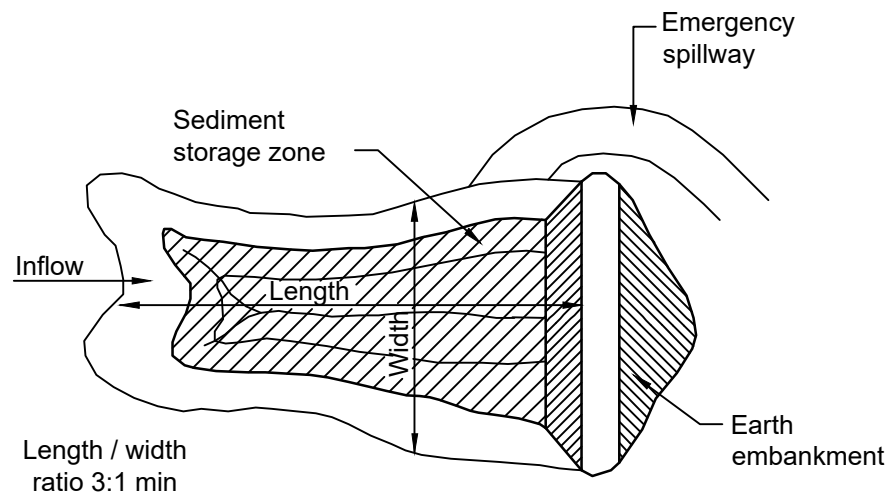
Sediment Trap for Kerb Inlet (at Low Point - Sandbag)

NTS



Diversion Bank and Channel

NTS



Sediment Basin (Typical) Plan - Type D and F Soils

NTS

Note

This plan is a concept only. It is created to highlight some of the sediment and erosion control measures which may appear. The contractor is responsible for the final design and ensuring all measures are taken to protect the environment.

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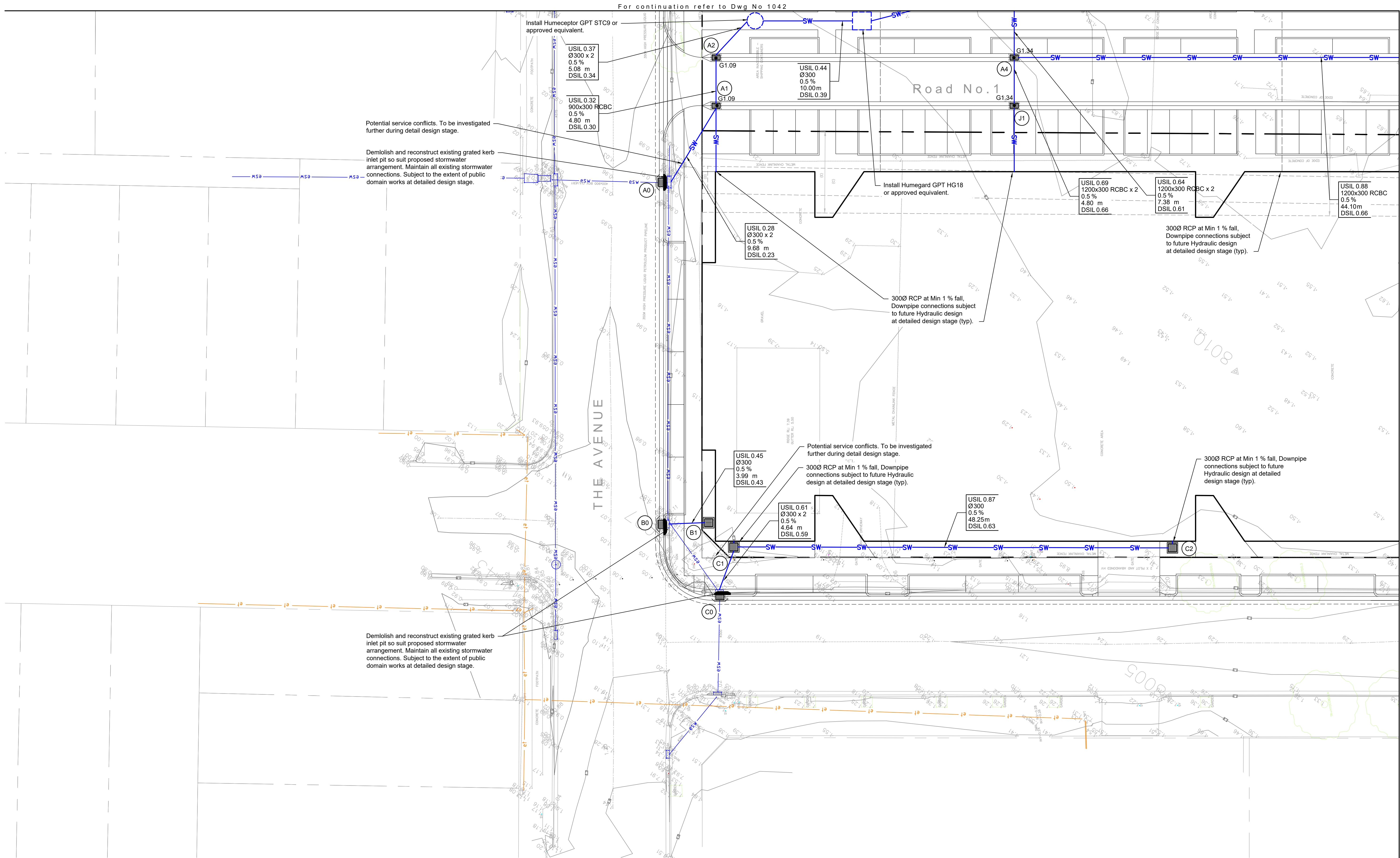
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Title
**Wickham Wool Stores
Development Application
Soil and Water Management
Notes and Details**

Designed	P.Cavanagh	Eng check	J.Gilligan
Drawn	D.Chapman	Coordination	A.Zou
Dwg check	A.Singh	Approved	J.Gilligan
Scale at A1	Status	Rev	Sec
NTS	PRE	P3	STD
Drawing Number MMD-366163-C-DR-00-DA-1035			

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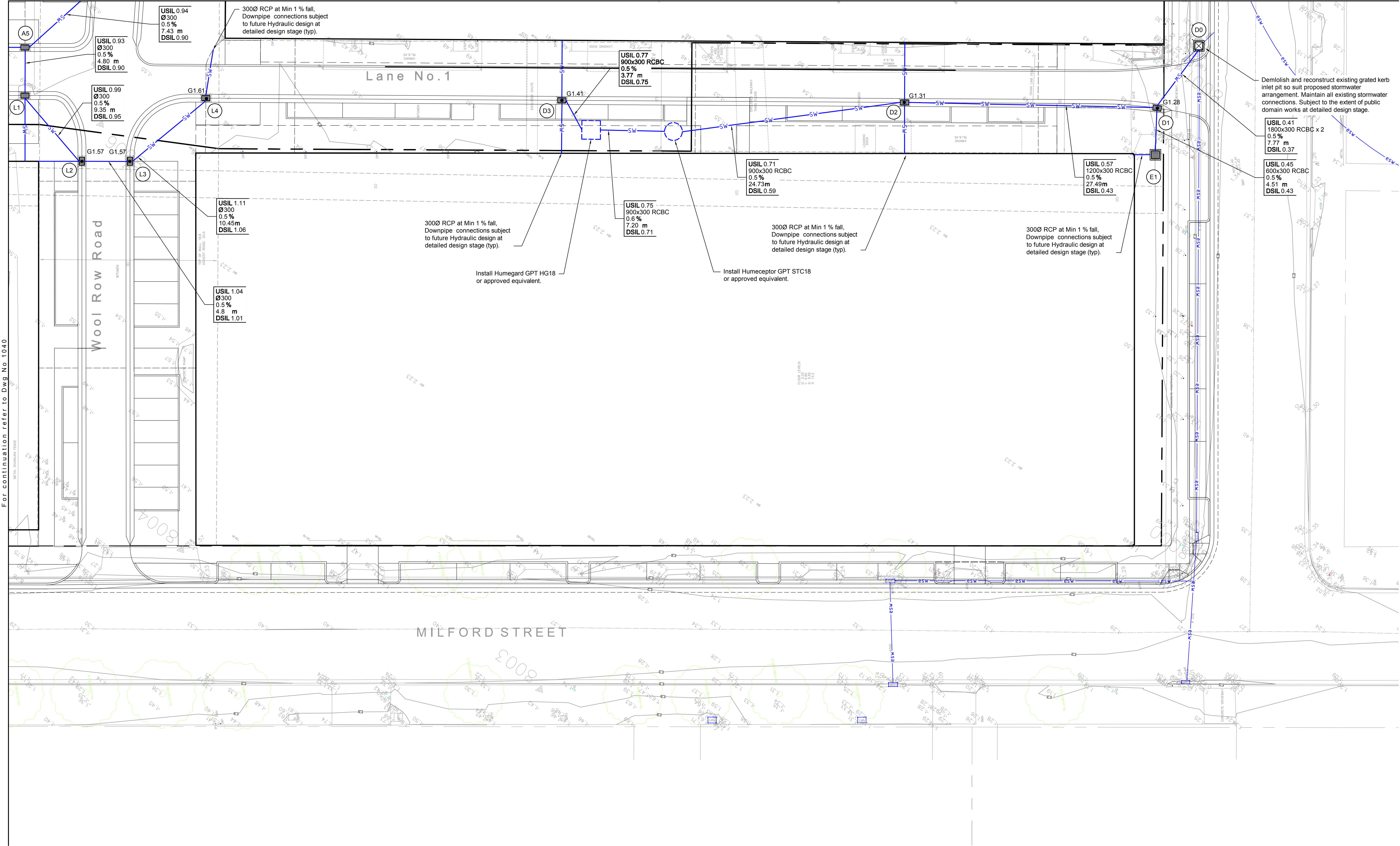
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Title
**Wickham Wool Stores
Development Application
Stormwater Management Plan
Sheet 1**

Designed	P.Cavanagh	Eng check	J.Gilligan
Drawn	D.Chapman	Coordination	A.Zou
Dwg check	A.Singh	Approved	J.Gilligan
Scale at A1	Status	Rev	Sec
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Drawing Number MMD-366163-C-DR-00-DA-1040			



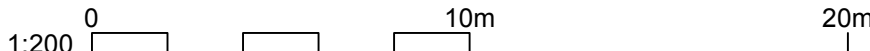
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Plan
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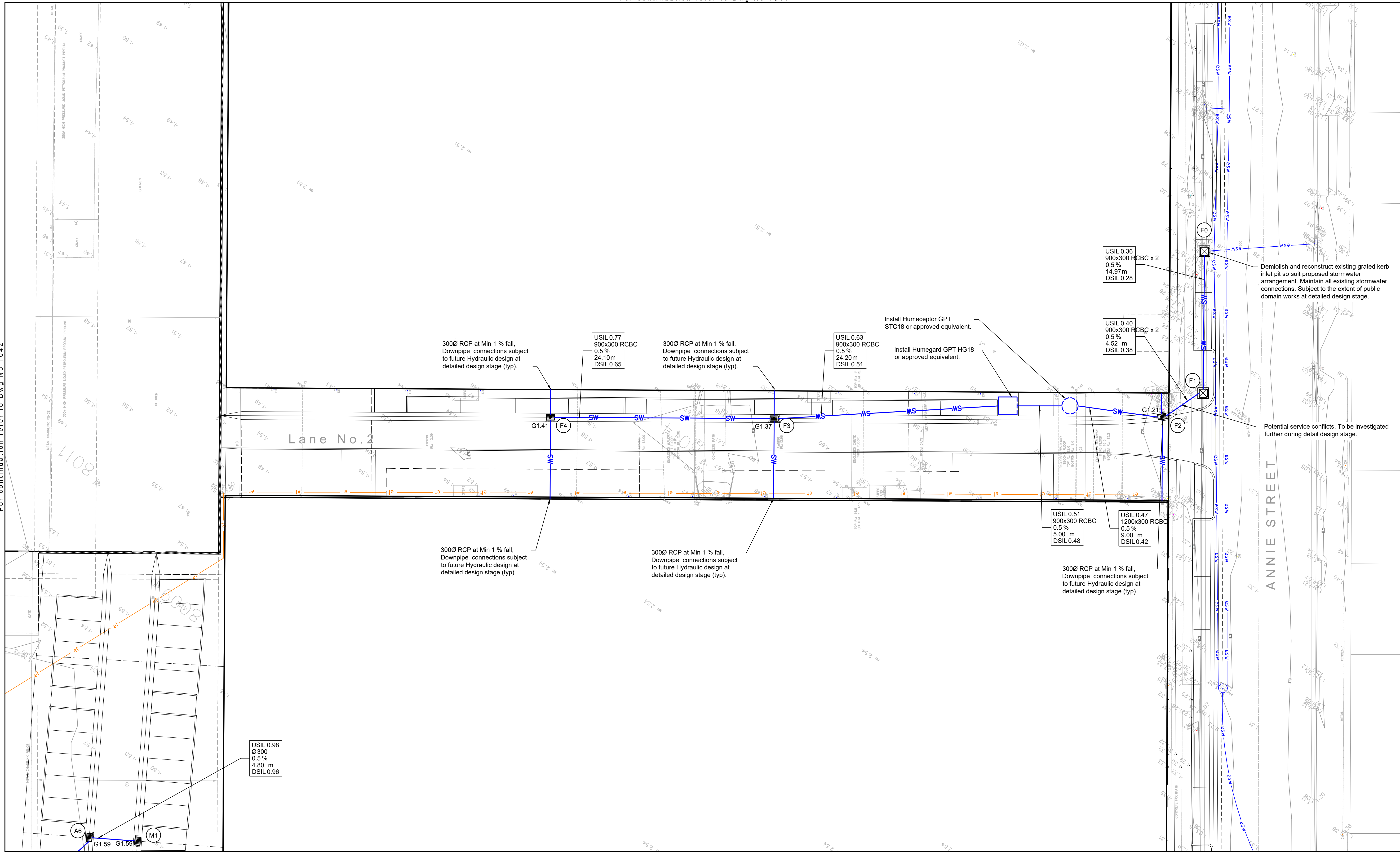
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Title
**Wickham Wool Stores
Development Application
Stormwater Management Plan
Sheet 2**

Designed	P.Cavanagh	Eng check	J.Gilligan
Drawn	D.Chapman	Coordination	A.Zou
Dwg check	A.Singh	Approved	J.Gilligan
Scale at A1	1:200	Status	PRE
Drawing Number	MMD-366163-C-DR-00-DA-1041	Rev	P3
		Sec	STD

For continuation refer to Dwg No 1044

For continuation refer to Dwg No 1042



For continuation refer to Dwg No 1041

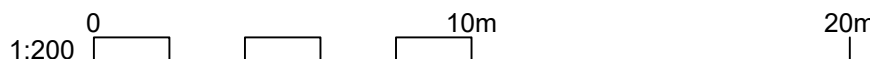
Plan

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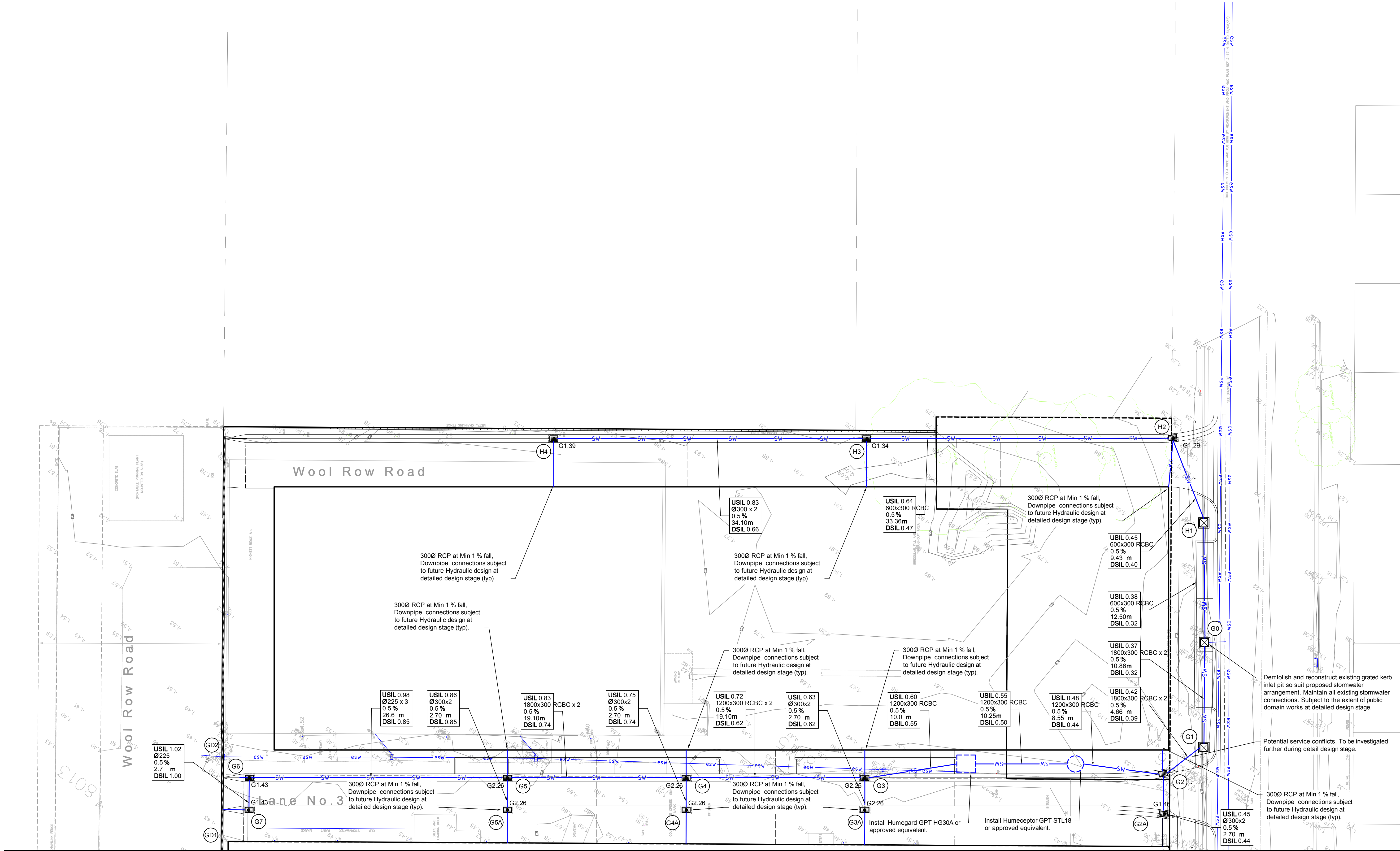
Title
**Wickham Wool Stores
Development Application
Stormwater Management Plan
Sheet 4**

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Designed	P.Cavanagh	Eng check	J.Gilligan
Drawn	D.Chapman	Coordination	A.Zou
Dwg check	A.Singh	Approved	J.Gilligan
Scale at A1	Status	Rev	Sec
1:200	PRE	P3	STD
Drawing Number	MMD-366163-C-DR-00-DA-1043		

This plan may be prepared using COLOUR and may be incomplete if copied to black and white.

\\mottmac\projects\sydney\Projects\366xxx\366163\04 Working\01 CAD\Civil\Drawings\DA\Stage 1\MMD-366163-C-DR-00-DA-1043-1049.dwg Jul 3, 2017 - 9:27AM sin59925



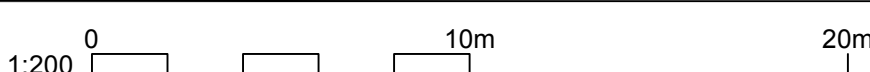
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Plan

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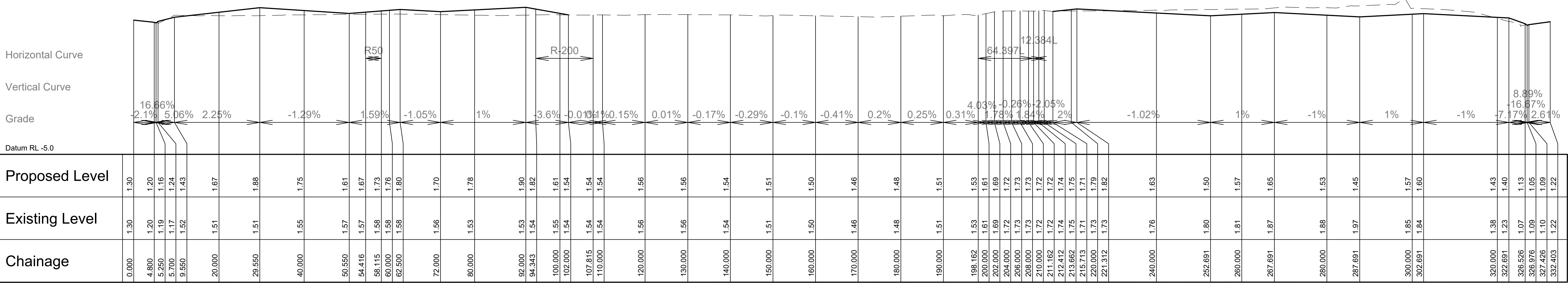
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Title
**Wickham Wool Stores
Development Application
Stormwater Management Plan
Sheet 5**

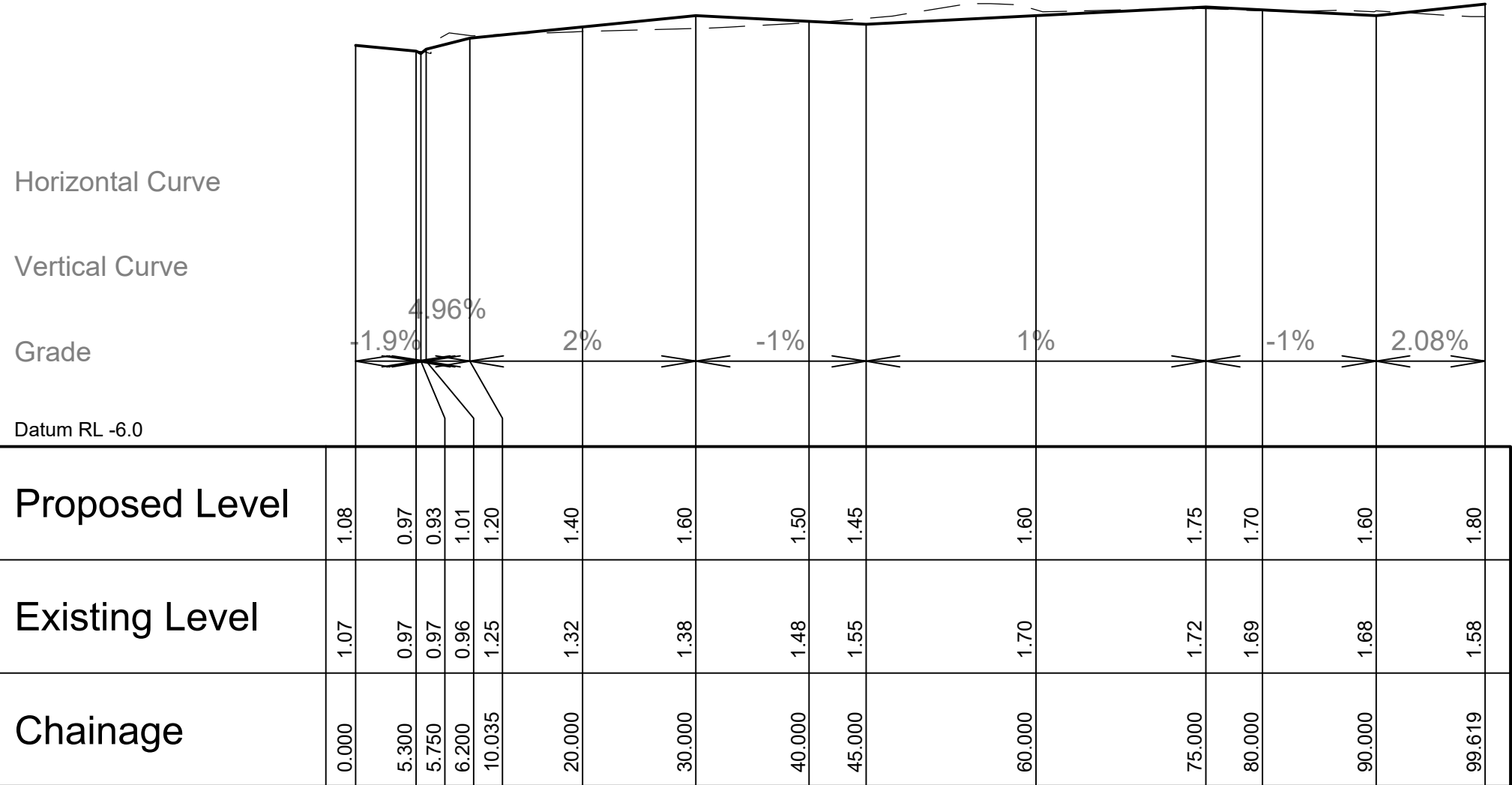
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Drawn	D.Chapman	Coordination	A.Zou
Dwg check	A.Singh	Approved	J.Gilligan
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Drawing Number	MMD-366163-C-DR-00-DA-1044		

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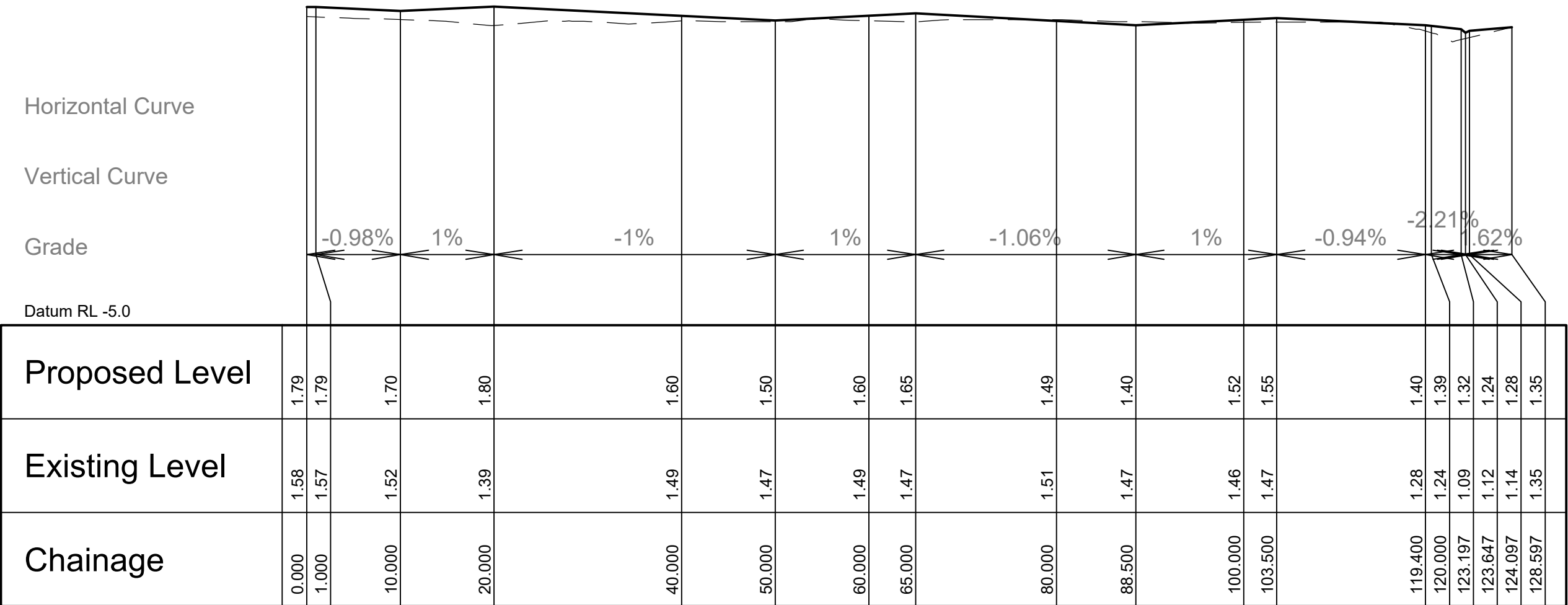
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Longitudinal Section Along Wool Row Road



1:500 Hor - 1:100 Ver

Longitudinal Section Along Road No. 1

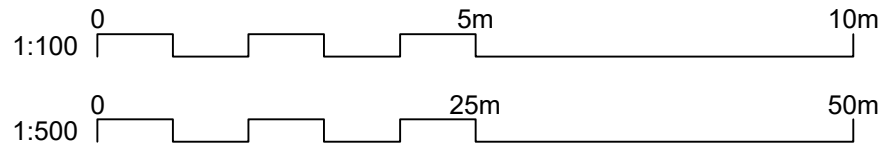


1:500 Hor - 1:100 Ver

Longitudinal Section Along Lane No. 1

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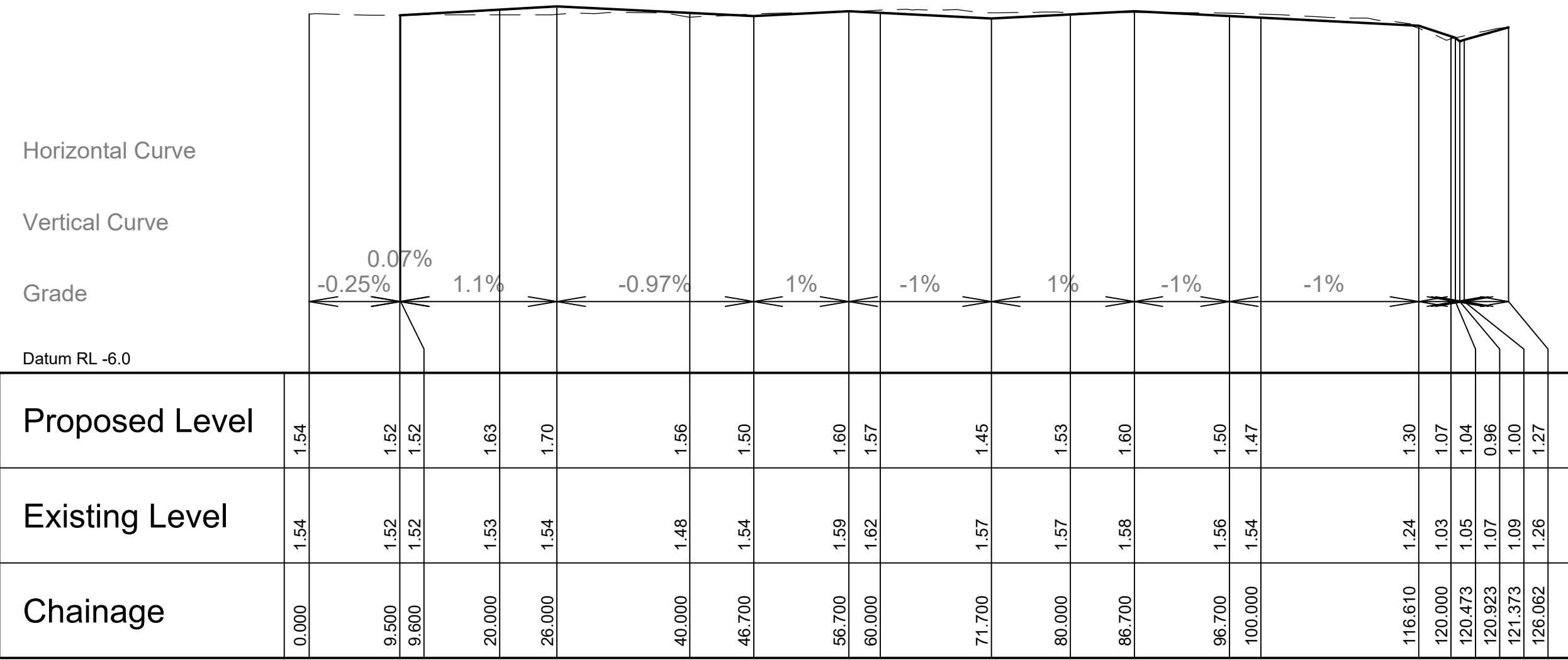


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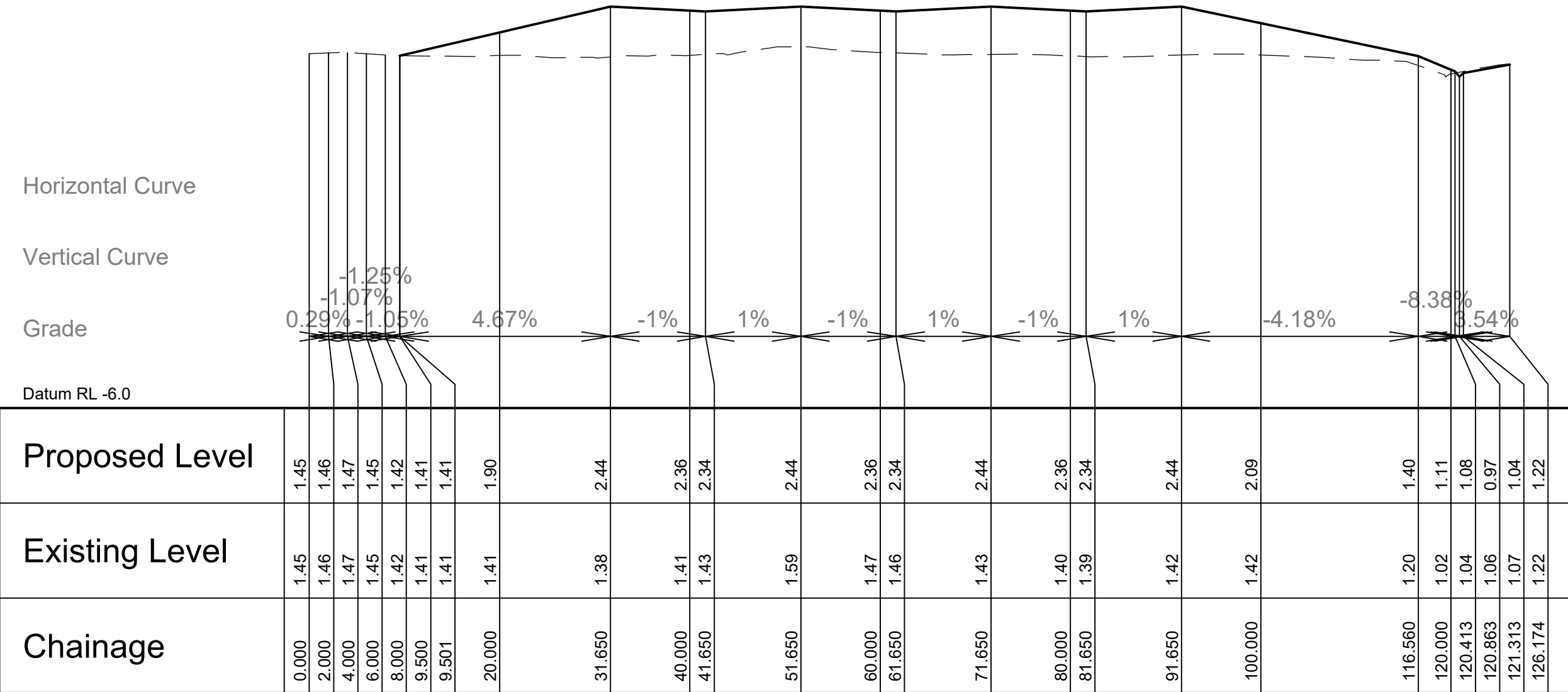
Title
Wickham Wool Stores
Development Application
Road Longitudinal Sections
Sheet 1

Designed	P.Cavanagh	Eng check	J.Gilligan
Drawn	D.Chapman	Coordination	A.Zou
Dwg check	A.Singh	Approved	J.Gilligan
Scale at A1 1:100,500	Status PRE	Rev P3	Sec STD
Drawing Number MMD-366163-C-DR-00-DA-1050			



1:500 Hor - 1:100 Ver

Longitudinal Section Along Lane No. 2

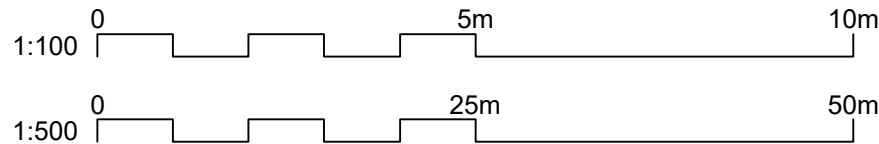


1:500 Hor - 1:100 Ver

Longitudinal Section Along Lane No. 3

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Rev	Date	Drawn	Description	Ch'k'd	App'd

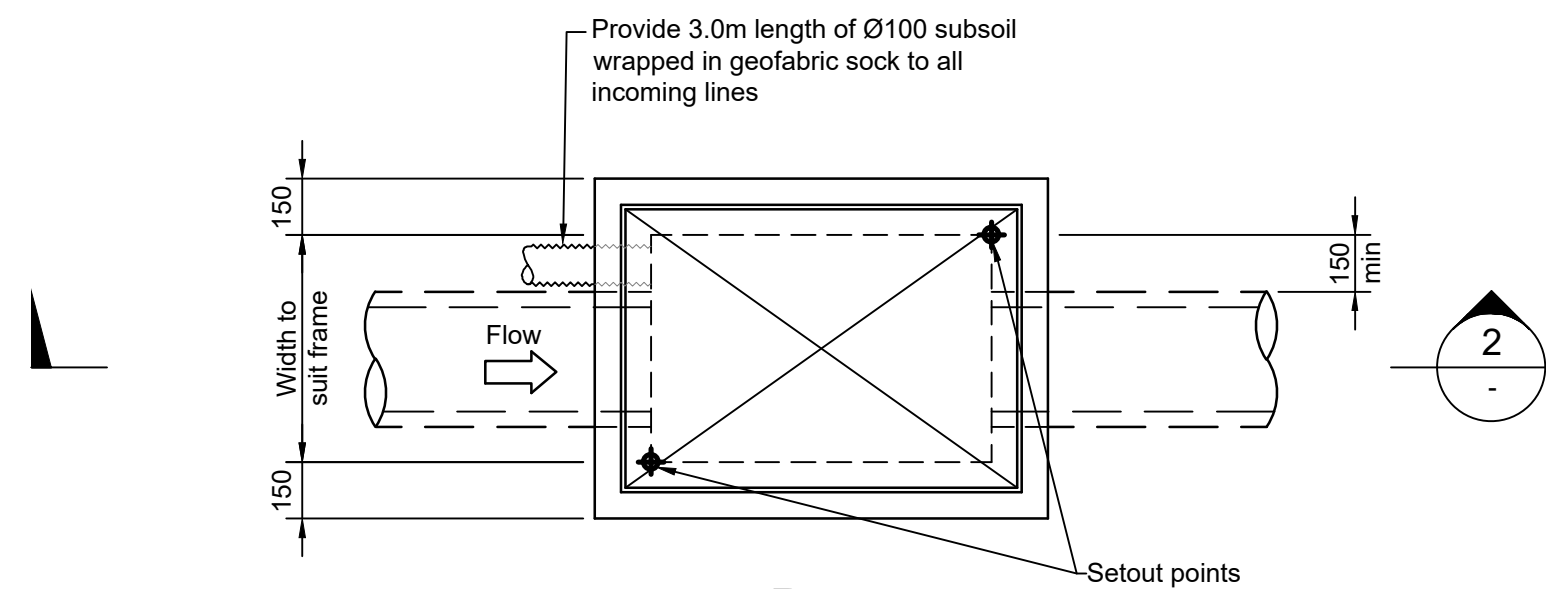


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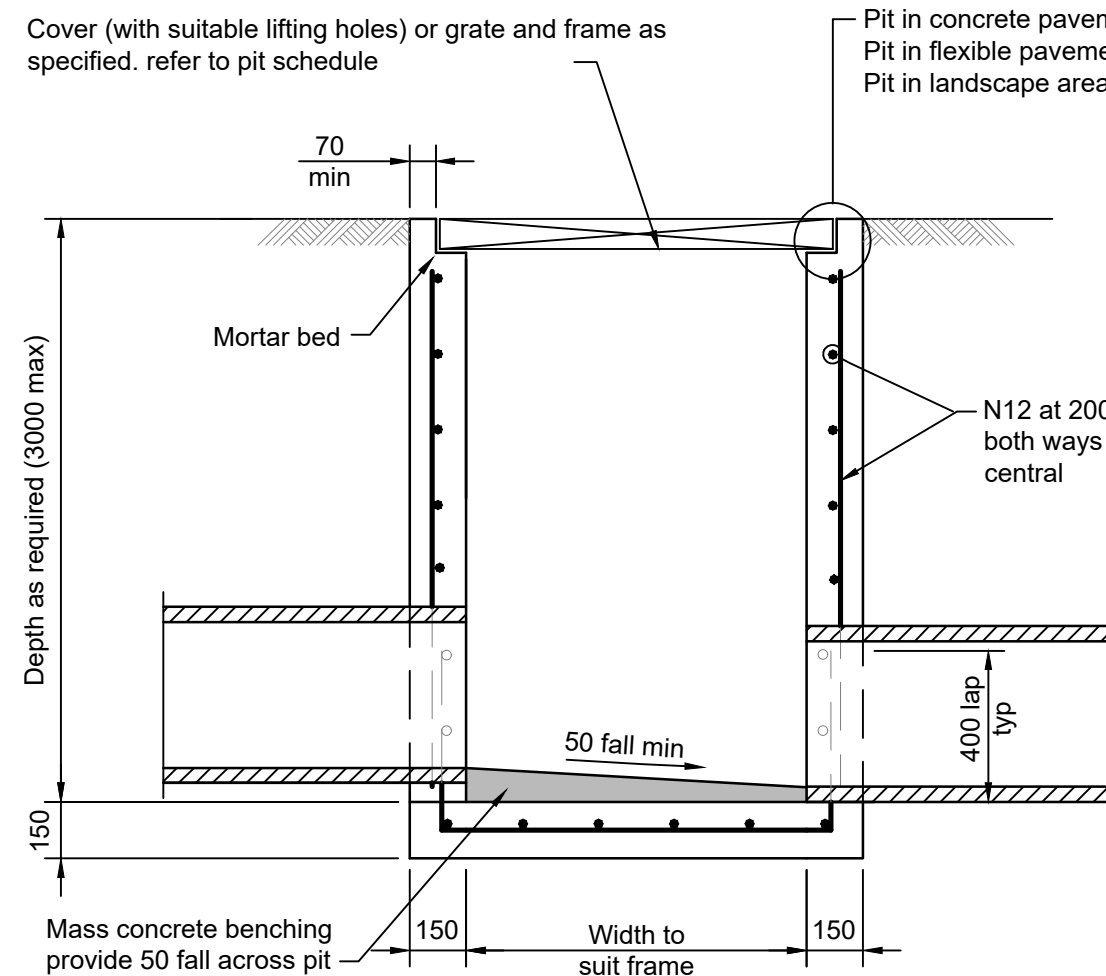
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Title
Wickham Wool Stores
Development Application
Road Longitudinal Sections
Sheet 2

Designed	P.Cavanagh	Eng check	J.Gilligan
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Dwg check	A.Singh	Approved	J.Gilligan
Scale at A1	Status	Rev	Sec
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Drawing Number MMD-366163-C-DR-00-DA-1051			



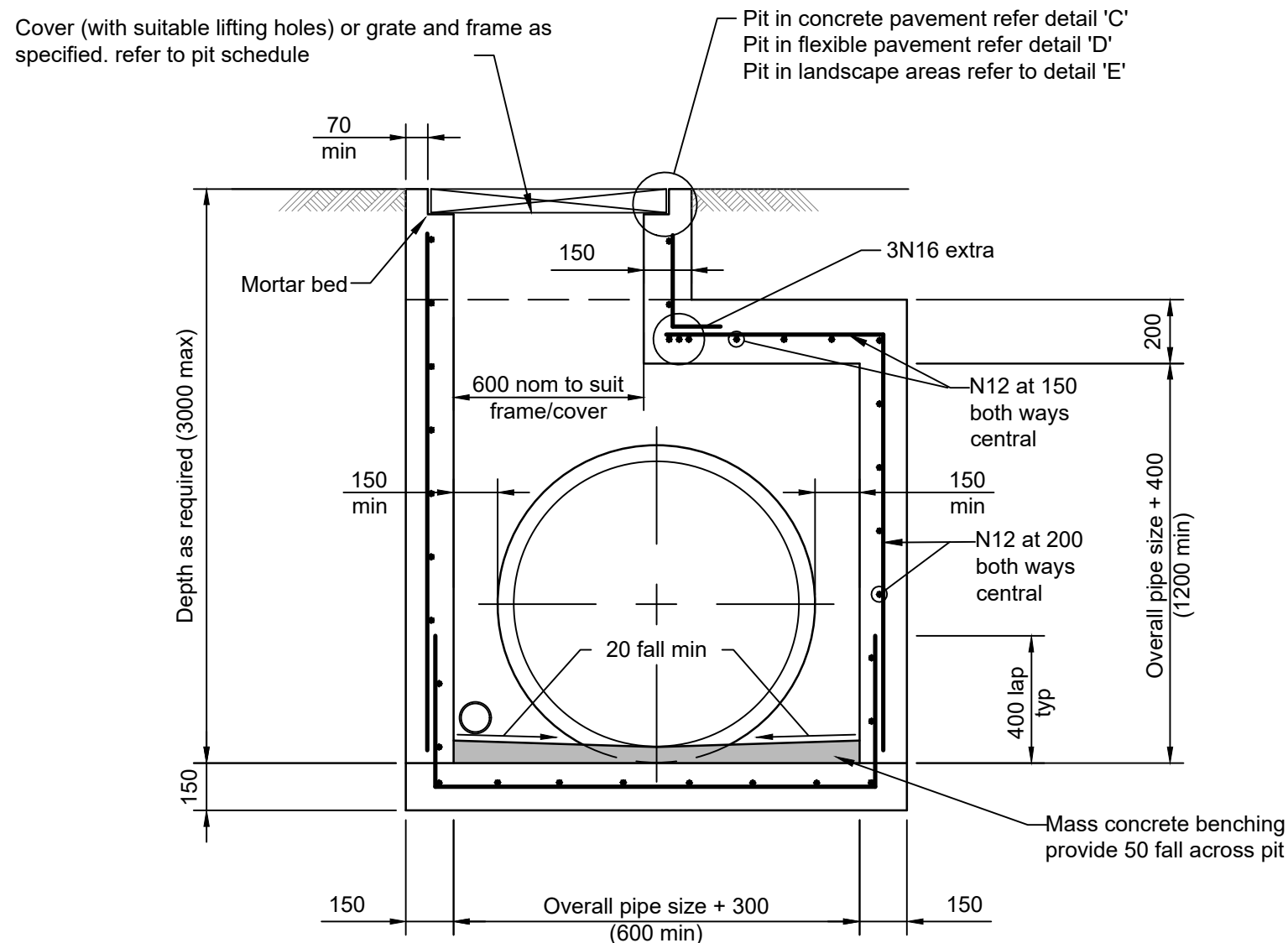
Plan
1:20



Section
1:20

Surface inlet / Junction pit
(pipe sizes ≤ Ø450)

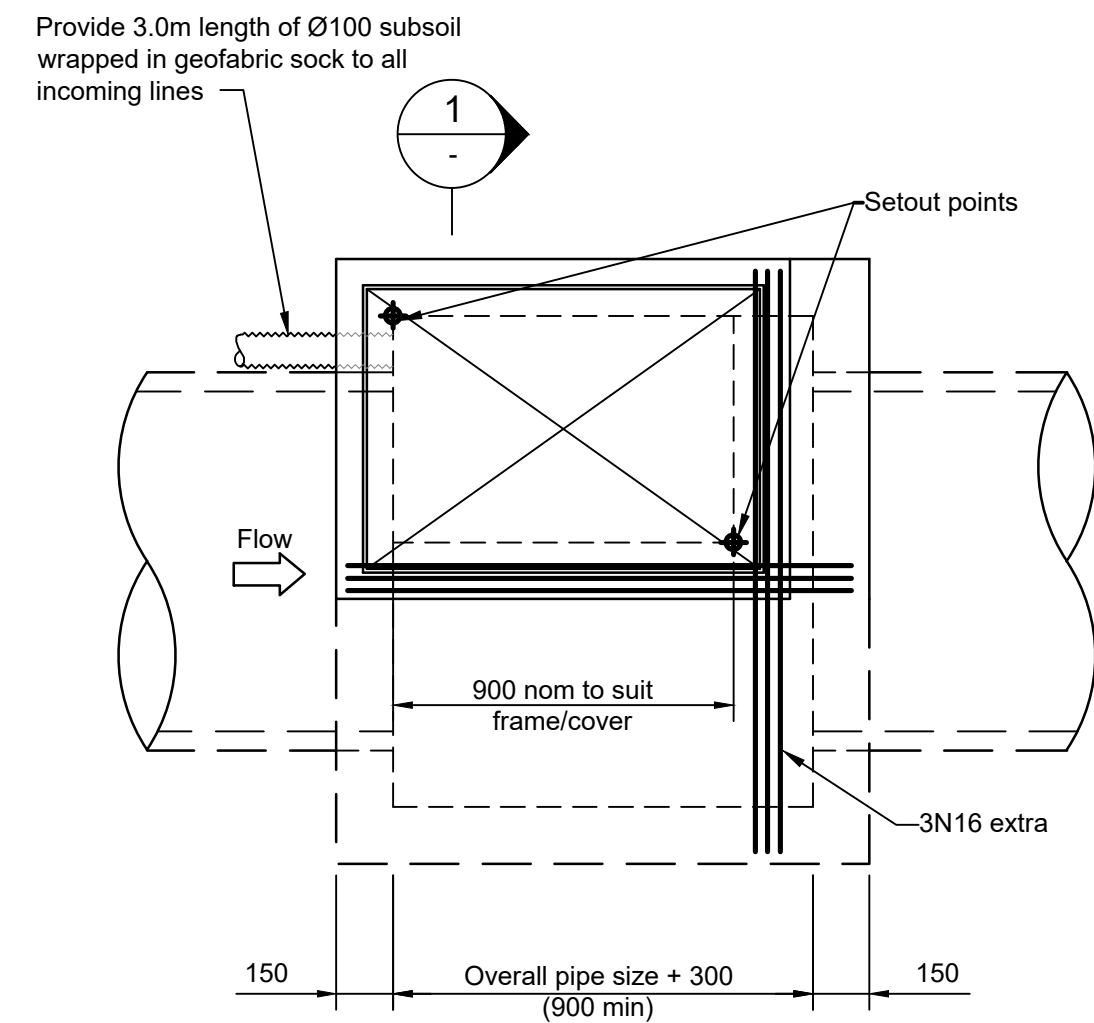
Pit Type A



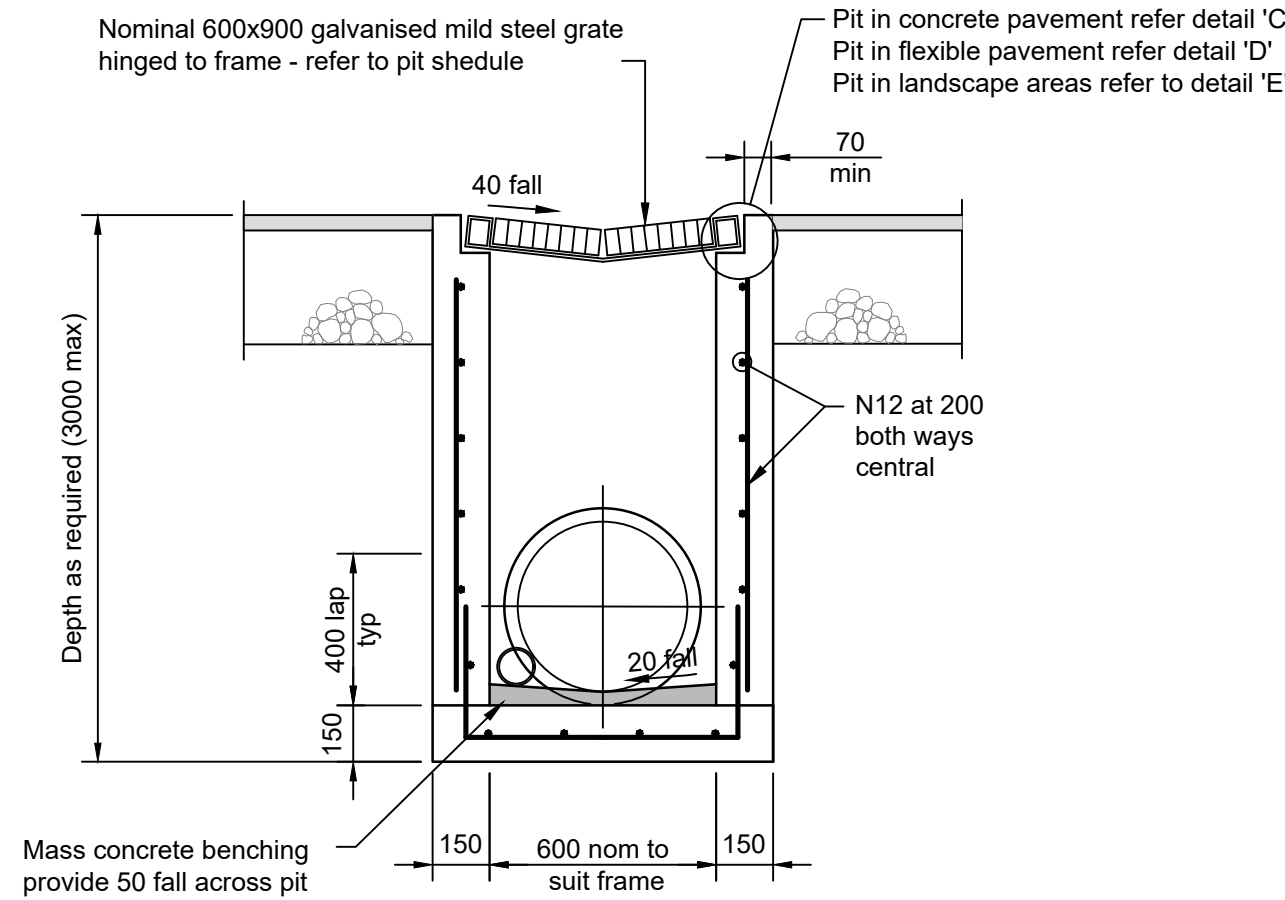
Section
1:20

Surface inlet / junction pit
(pipe sizes > Ø450)

Pit Type B



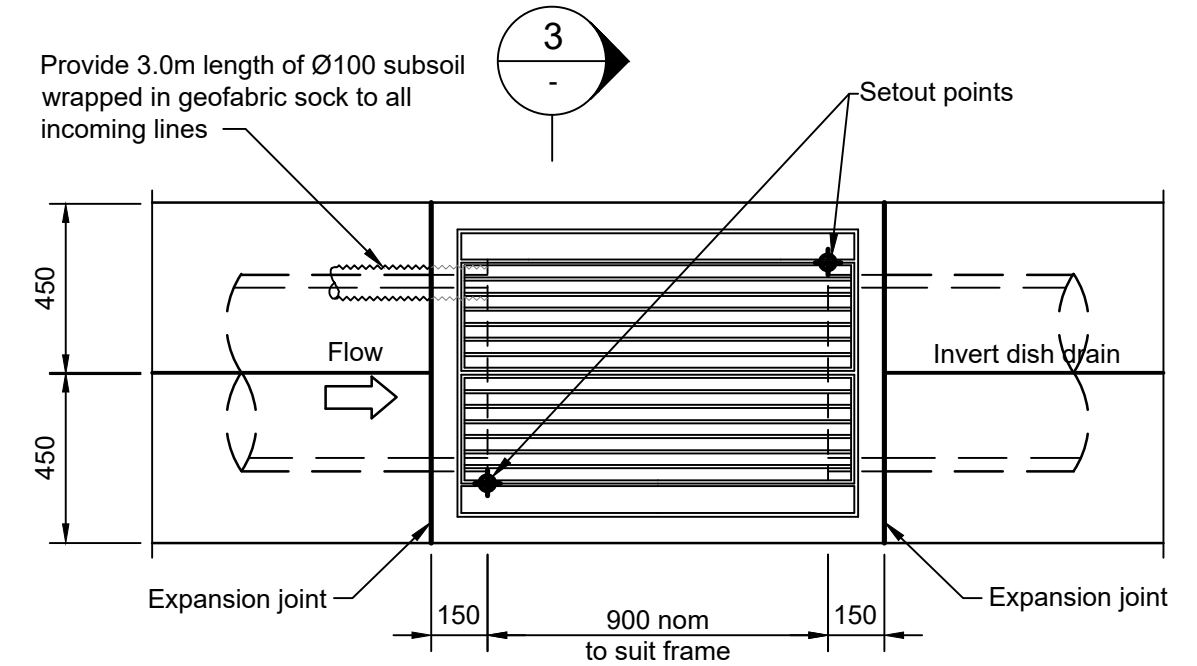
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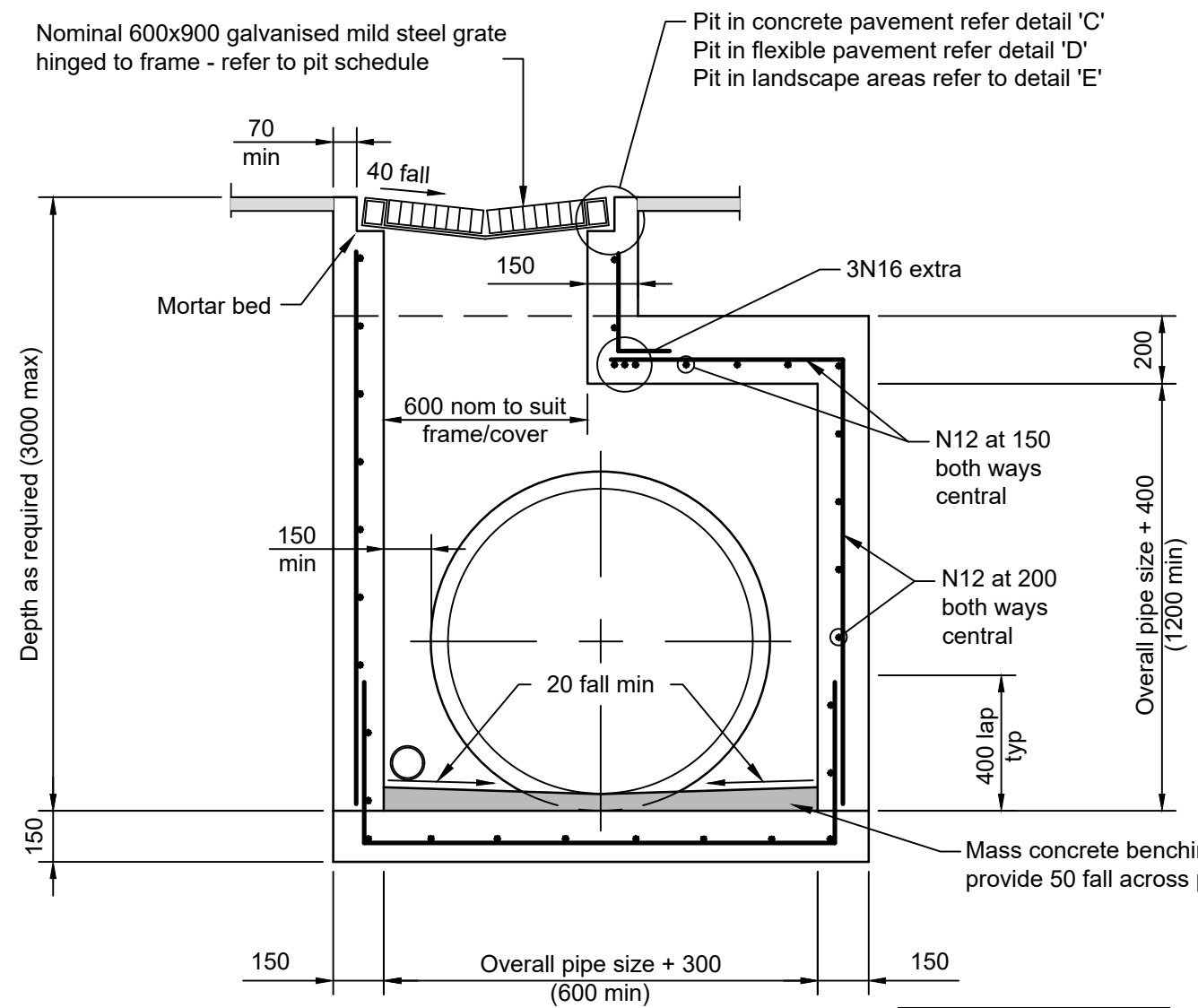
Section
1:20

Surface inlet / junction pit
in dish drain
(pipe sizes ≤ Ø450)

Pit Type C



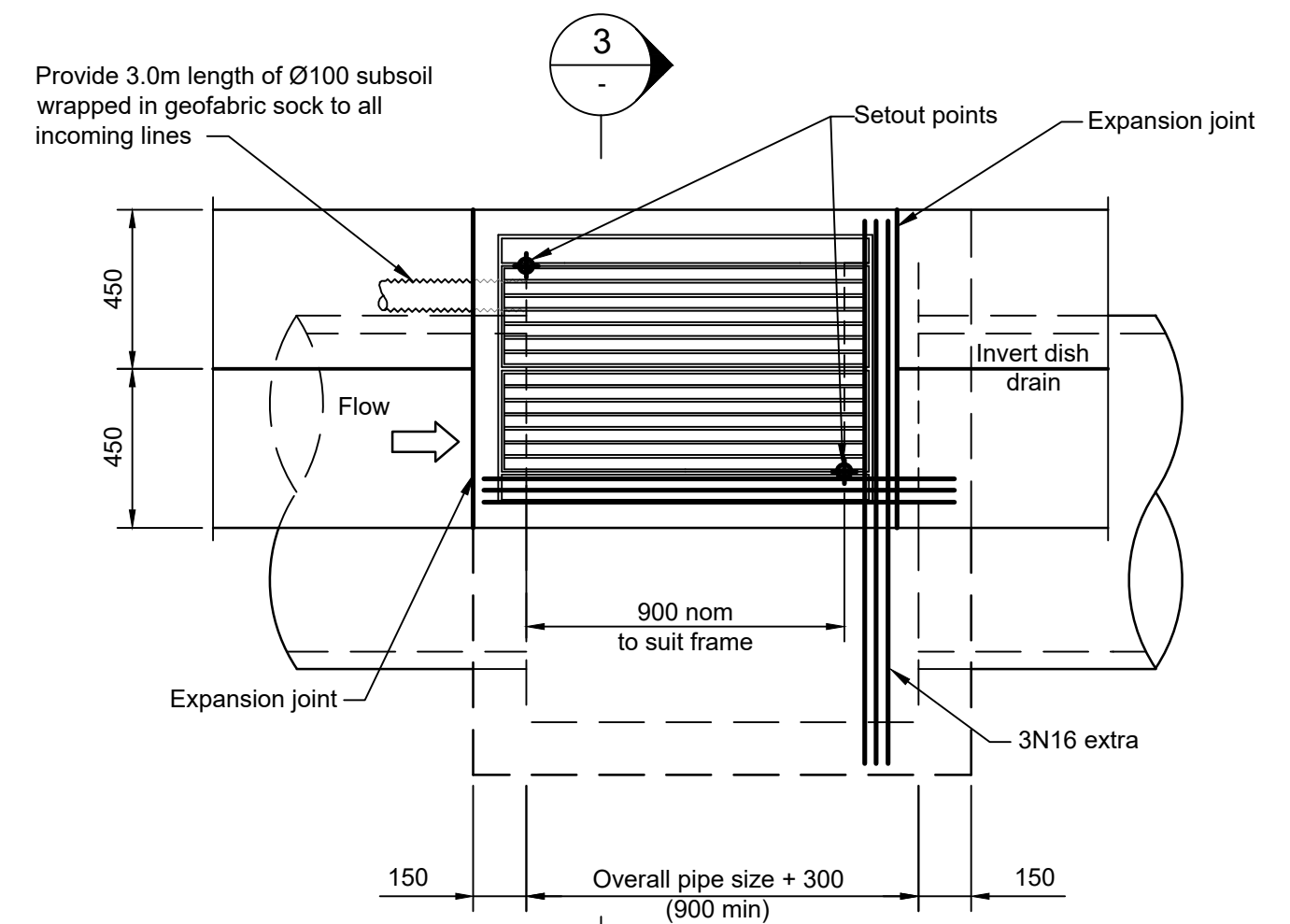
Plan
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Section
1:20

Surface inlet / junction pit
in dish drain
(pipe sizes > Ø450)

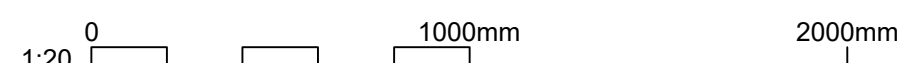
Pit Type D



Plan
1:20

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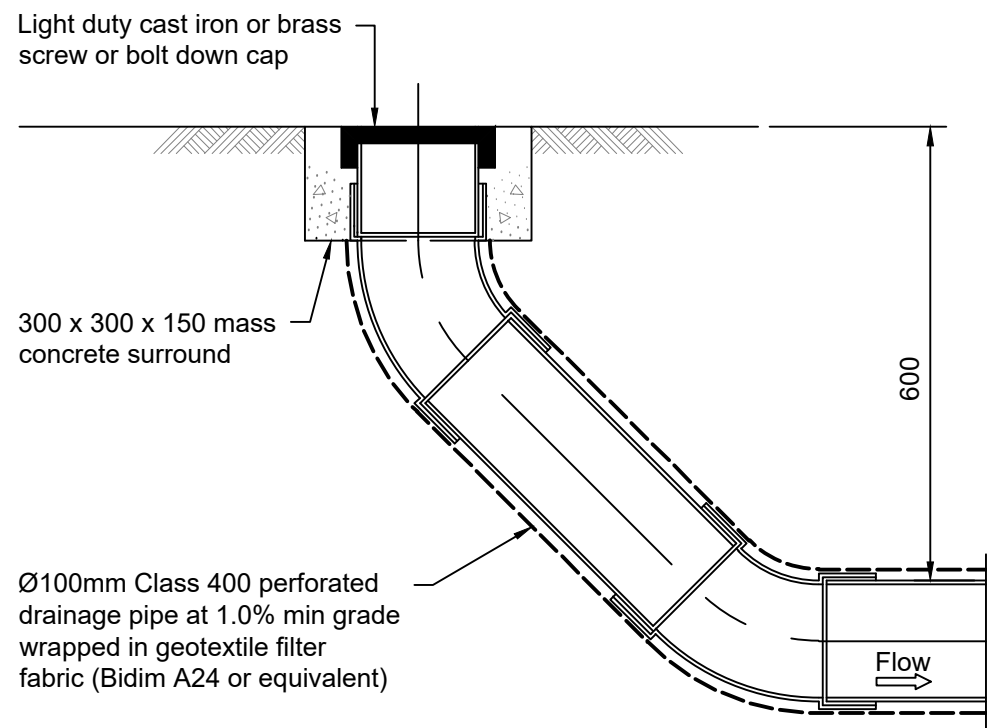
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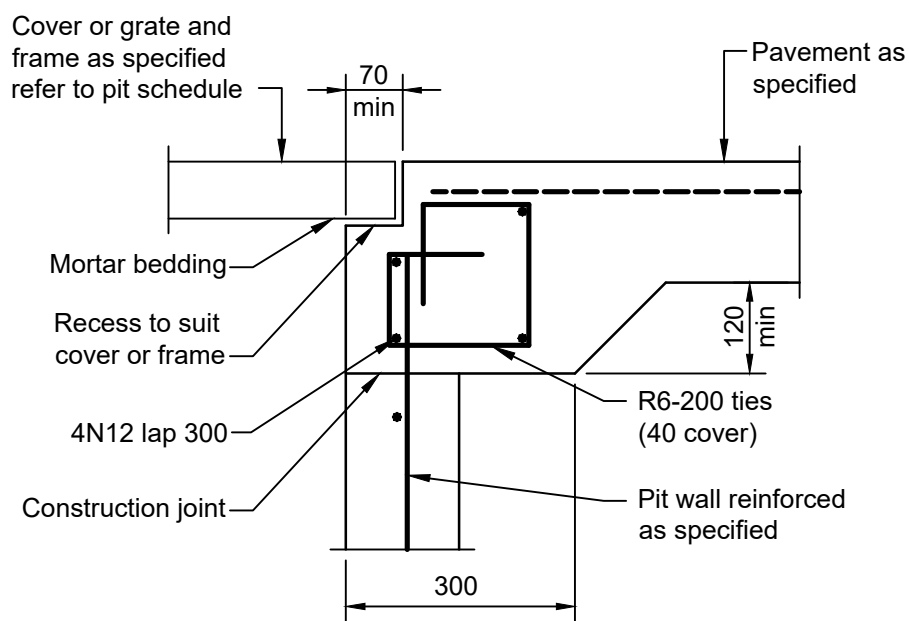
Title
**Wickham Wool Stores
Development Application
Siteworks and Stormwater Drainage
Details Sheet 1**

Designed	P.Cavanagh	Eng check	J.Gilligan
Drawn	D.Chapman	Coordination	A.Zou
Dwg check	A.Singh	Approved	J.Gilligan
Scale at A1	1:20	Status	PRE
Rev	P3	Sec	STD
Drawing Number	MMD-366163-C-DR-00-DA-1060		

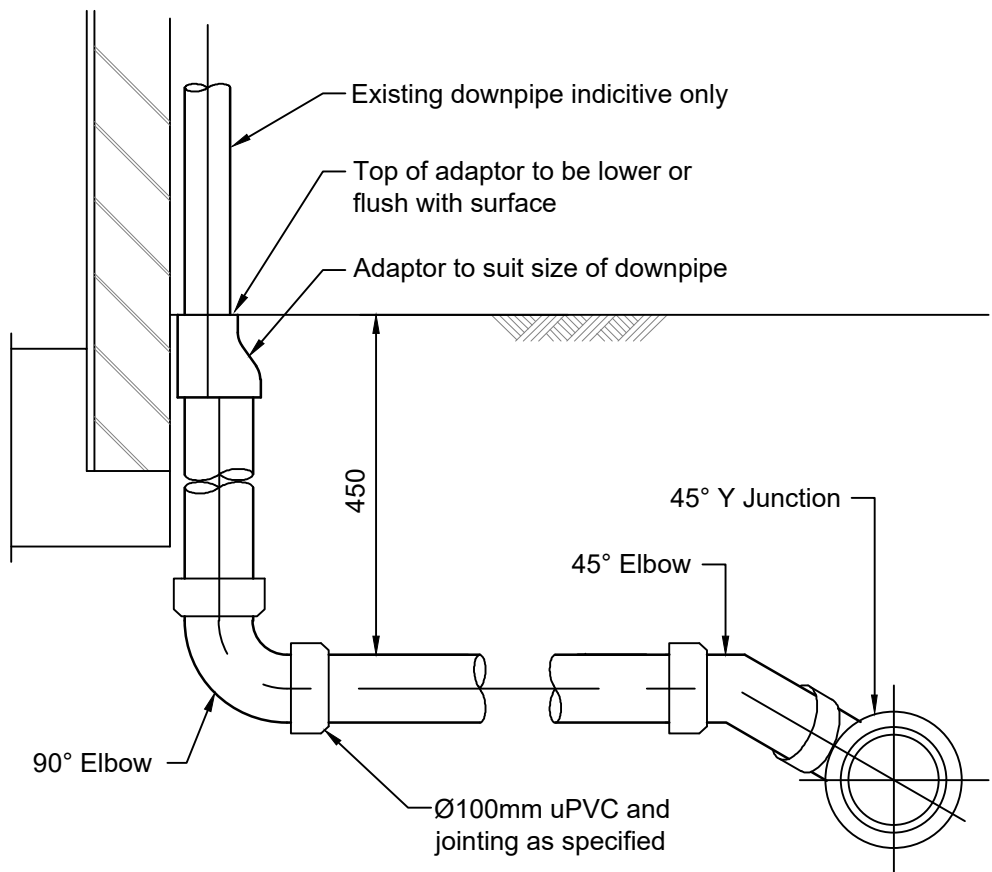
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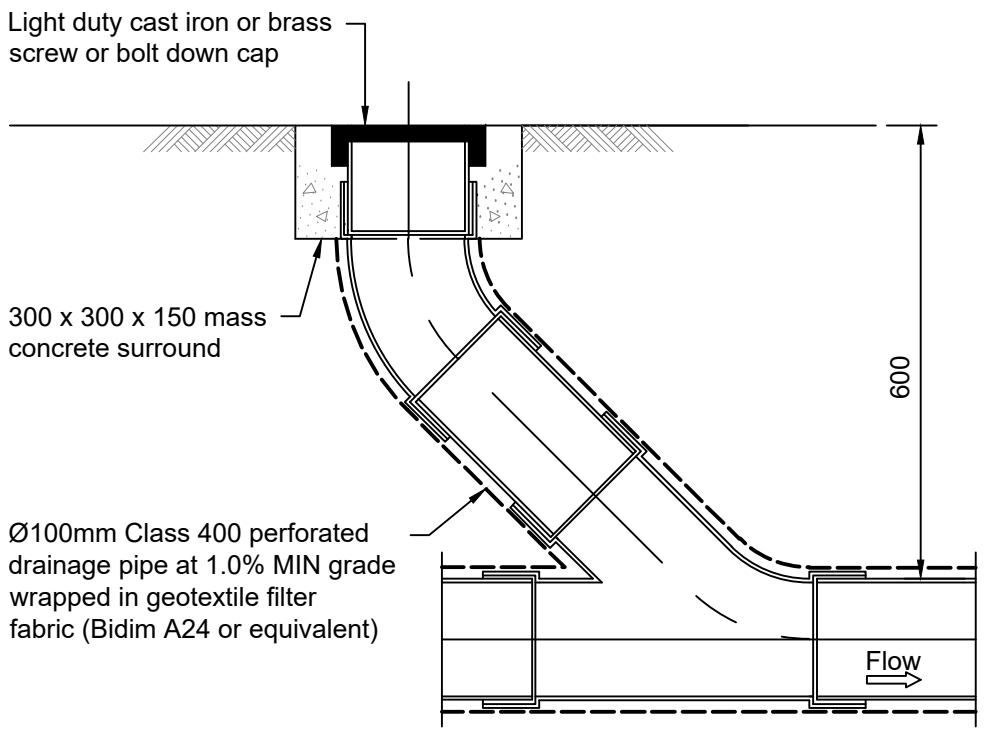
High End Riser (HER)
1:10



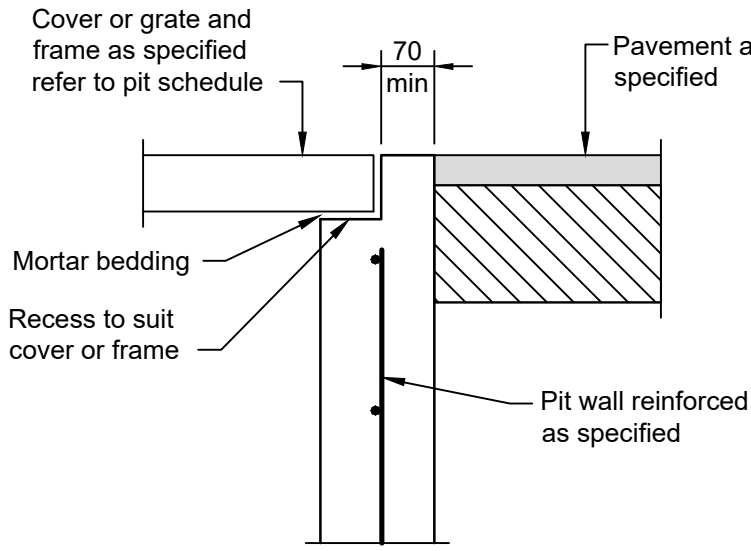
Detail 'C'
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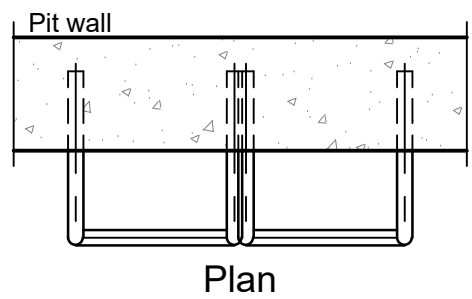
uPVC Downpipe Connection
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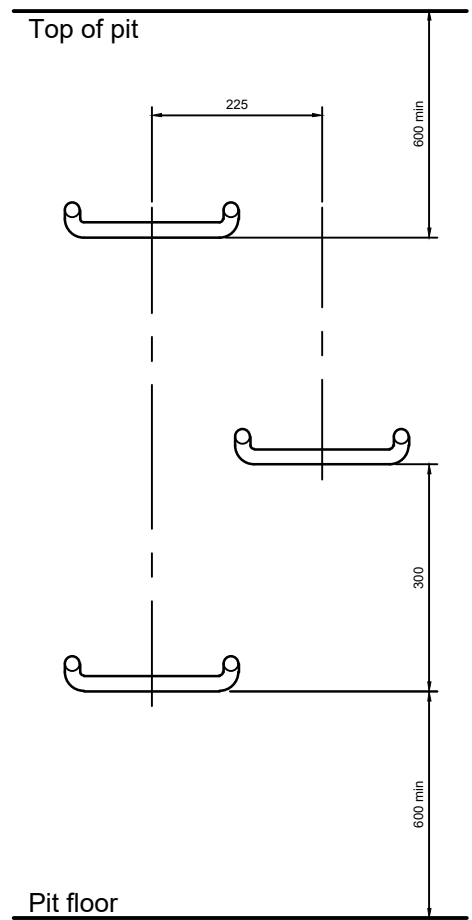
Intermediate Riser (IR)
1:10



Detail 'D'
1:10

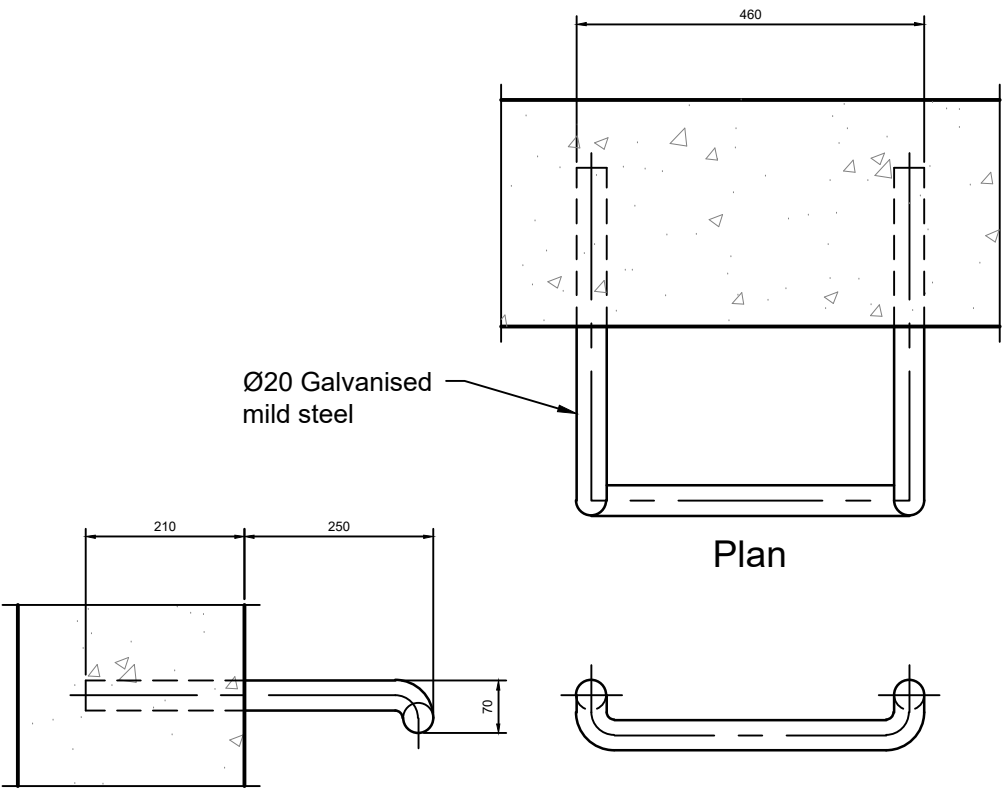


Plan



Elevation

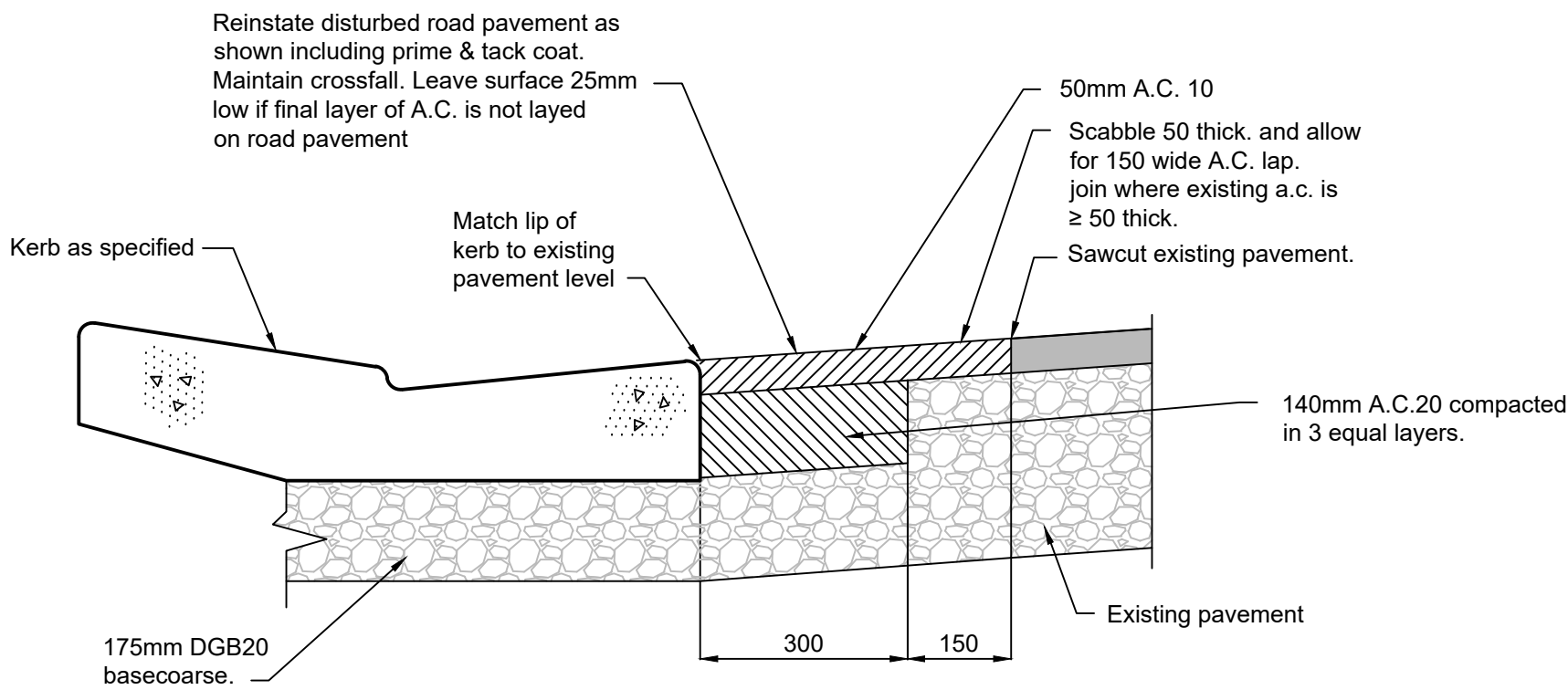
Step Iron
Placement to Pit Wall
1:10



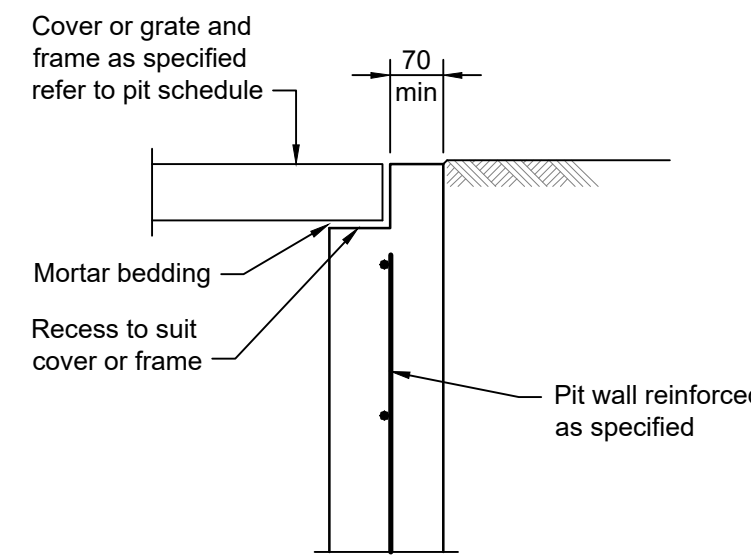
Side Elevation

Front Elevation

Step Iron Detail
1:10



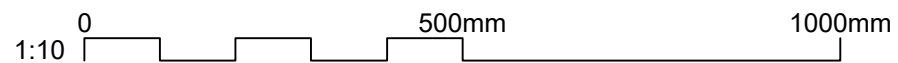
Pavement Reinstatement
1:10



Detail 'E'
1:10

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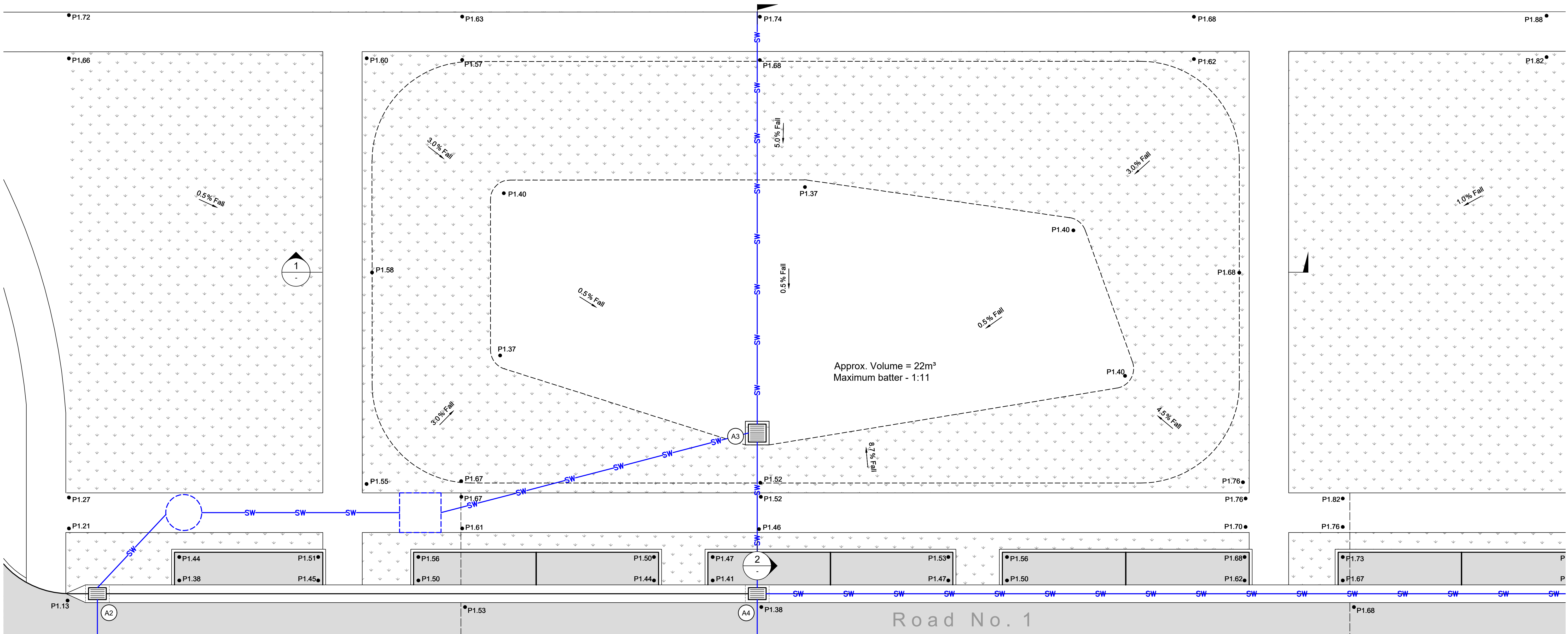
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Title
**Wickham Wool Stores
Development Application
Siteworks and Stormwater Drainage
Details Sheet 2**

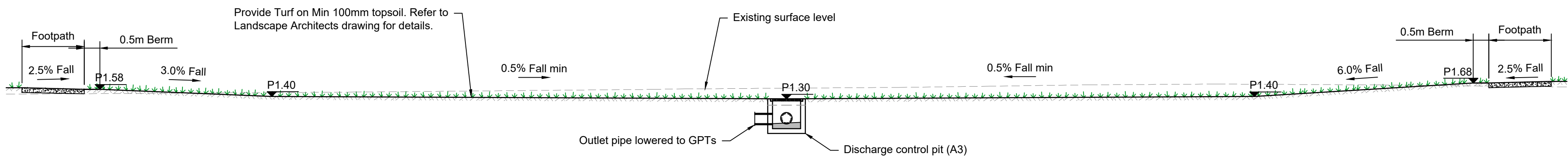
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Drawn	D.Chapman	Coordination	A.Zou
Dwg check	A.Singh	Approved	J.Gilligan
Scale at A1	Status	Rev	Sec
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Drawing Number MMD-366163-C-DR-00-DA-1061			

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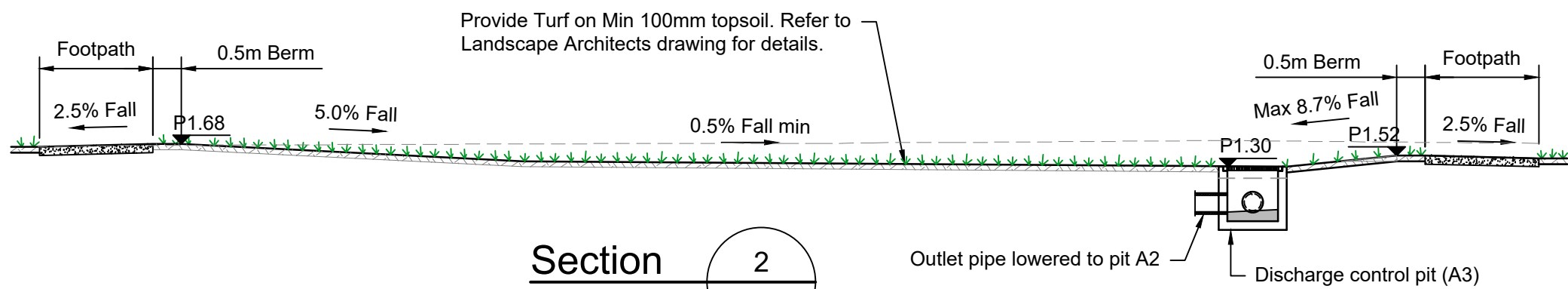
Plan

1:100



Section 1

1:100

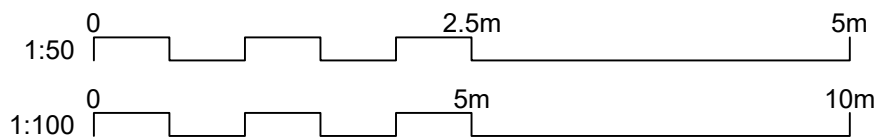


Section 2

1:100

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Title
**Wickham Wool Stores
Development Application
Above Ground Detention Basin
Plan and Section**

Designed	P.Cavanagh	Eng check	J.Gilligan
Drawn	D.Chapman	Coordination	A.Zou
Dwg check	A.Singh	Approved	J.Gilligan
Scale at A1	Status	Rev	Sec
1:50,100	PRE	P3	STD
Drawing Number MMD-366163-C-DR-00-DA-1070			

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