

ACCESS AND SAFETY

- 1. THE CONTRACTOR SHALL COMPLY WITH ALL STATUTORY AND INDUSTRIAL REQUIREMENTS FOR PROVISION OF A SAFE WORKING ENVIRONMENT INCLUDING TRAFFIC AND PEDESTRIAN CONTROL.
- 2. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES ACCESS TO ALL BUILDINGS ADJACENT THE WORKS IS NOT DISRUPTED.
- 3. WHERE NECESSARY THE CONTRACTOR SHALL PROVIDE SAFE PASSAGE OF VEHICLES AND/OR PEDESTRIANS THROUGH OR BY THE SITE.

GENERAL

- 1. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH PENRITH CITY COUNCIL GUIDELINES.
- 2. PENRITH CITY COUNCIL STANDARD DETAILS TO BE USED WHERE REQUIRED.
- 3. UTILITY ADJUSTMENTS AT DEVELOPERS EXPENSE.
- 4. CONDUITS TO BE PLACED WHERE REQUIRED BY THE RELEVANT AUTHORITIES.

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY CARDNO, BEING REGISTERED SURVEYORS AND SURVEY PREVIOUSLY PROVIDED BY LENDLEASE THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT CARDNO.

NOTES

- 1. THIS PLAN IS PREPARED FOR LENDLEASE FROM A COMBINATION OF FIELD SURVEY AND EXISTING RECORDS FOR THE PURPOSE OF DESIGNING NEW CONSTRUCTIONS ON THE LAND AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE.
- 2. VISIBLE SERVICES SHOWN HEREON HAVE BEEN LOCATED WHERE POSSIBLE BY FIELD SURVEY OR DIAL BEFORE YOU DIG INFORMATION. PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE, THE RELEVANT AUTHORITY SHOULD BE CONTACTED FOR POSSIBLE LOCATION OF FURTHER UNDERGROUND SERVICES AND DETAILED LOCATIONS OF ALL SERVICES.
- 3. SERVICES MARKED AS DYBD ARE BASED ON DIAL BEFORE YOU DIG DATA COLLECTED ON 08/07/2019.

LEGEND

	POWER POLE WITH LIGHT
	LIGHT POLE
	WATER METER
	SEWER MANHOLE
	SEWER LAMPHOLE
	UNCLASSIFIED PIT
	DRAINAGE PIT
	COMMUNICATIONS PIT
	CONTOUR MAJOR
	BOUNDARY SUBJECT
	BUILDING EDGE
	CROWN OF ROAD
	EDGE OF BITUMEN/FORMATION
	FENCE
	NATURAL SURFACE STRING
	TOE OF BANK
	TOP OF BANK
	DRAINAGE LINE
	SEWER
	POTABLE WATER (DYBD)
	ELECTIRCAL OVERHEAD LINE
	UNDERGROUND ELECTRICAL CONDUIT (DYBD)
	EXISTING OPTUS LINE (DYBD)
	EXISTING TELSTRA LINE (DYBD)
	EXISTING NBN LINE (DYBD)

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

- 1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONTROL OF EROSION AND SEDIMENTATION TO THE SATISFACTION OF COUNCIL, NSW OFFICE OF WATER AND OFFICE OF ENVIRONMENT AND HERITAGE. THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE DRAWINGS SHALL ONLY BE USED AS A GUIDE BY THE CONTRACTOR, AND SHALL REPRESENT THE MINIMUM REQUIREMENT ONLY.
- 2. THE CONTRACTOR SHALL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED OR AS OTHERWISE DIRECTED BY THE SUPERINTENDENT. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
 - a. LOCAL AUTHORITY REQUIREMENTS
 - b. EPA REQUIREMENTS
 - c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
- 3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
- 4. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
- 5. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

LAND DISTURBANCE

- 6. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
 - a. INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
 - b. CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
 - c. INSTALL SEDIMENT BASIN AS SHOWN ON PLAN (D). INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
 - d. 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.

EROSION CONTROL

- 7. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
- 8. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

SEDIMENT CONTROL

- 9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
- 10. 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.
- 11. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
- 12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.
- 13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
- 14. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:

OTHER MATTERS

- 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 NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

STORMWATER DRAINAGE NOTES

1. STORMWATER DESIGN CRITERIA:

- A. PUBLIC STORMWATER DESIGNED TO PENRITH COUNCIL'S STORMWATER MANAGEMENT POLICY, DESIGN GUIDELINES FOR ENGINEERING WORKS FOR SUBDIVISIONS AND DEVELOPMENTS, AND AUSTRALIAN RAINFALL AND RUNOFF 2016.
- B. ANNUAL EXCEEDANCE PROBABILITY:
 - 20% AEP PIPED DRAINAGE
 - 1% AEP OVERLAND FLOW
- 2. PIPES 375 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
- 3. PIPES 300 DIA AND LESS SHALL BE DWV GRADE (CLASS SN8) uPVC WITH SOLVENT WELDED JOINTS.
- 4. EQUIVALENT STRENGTH FRC PIPES MAY BE USED.
- 5. ALL PIPES ARE TO BE UNIFORMLY SUPPORTED ALONG THE LENGTH OF THE BARREL BY SUITABLE FILL MATERIAL. REFER TO BEDDING SUPPORT TYPE.
- 6. PIPES WITH SOCKETS SHALL BE LAID IN BEDDING WHERE SUITABLE RECESSES HAVE BEEN PROVIDED TO ENSURE PIPES DO NOT BEAR ON THEIR SOCKETS.
- 7. ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6, ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
- 8. PIPES TO BE INSTALLED TO TYPE HS1 SUPPORT IN ACCORDANCE WITH AS 3725 (2007) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75).
- 9. REFER TO AS/NZS 3725:2007 TABLE B1 FOR REQUIRED FILL DEPTHS ABOVE PIPE BARREL PRIOR TO USE OF COMPACTION MACHINERY OR TRAVERSING OF PIPES BY GENERAL SITE EQUIPMENT.
- 10. WHERE WORKING METHODS REQUIRE HIGHER CLASS PIPE, THE CONTRACTOR SHALL REFER TO AS 3725 (2007) TO DETERMINE THE APPROPRIATE PIPE CLASS. PROPOSED PIPE CLASS SHALL BE REVIEWED BY CARDNO PRIOR TO INSTALLATION.
- 11. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS/NZS 3500.3:2018.
- 12. PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY PENRITH CITY COUNCIL.
- 13. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
- 14. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
- 15. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- 16. GRATES AND COVERS SHALL CONFORM TO AS 3996 AND PENRITH CITY COUNCIL GUIDELINES.
- 17. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- 18. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.

EXISTING UNDERGROUND SERVICES NOTES

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE. CARDNO CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.

CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS. CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

SITeworks NOTES

- 1. ORIGIN OF LEVELS:- REFER SURVEY NOTES.
- 2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO CARDNO.
- 3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS AND SURFACES.
- 4. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- 5. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL. COMPACTED IN 150mm LAYERS TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
- 6. PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
- 7. ASPHALTIC CONCRETE SHALL CONFORM TO R.M.S. SPECIFICATION R116.
- 8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S. FORM 3051, AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m² OF BASECOURSE MATERIAL PLACED.
- 9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S. FORM 3051, AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m² OF SUB-BASE COURSE MATERIAL PLACED.
- 10. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH R.M.S. FORM 3051 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF CARDNO.
- 11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
- 12. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.

BULK EARTHWORKS NOTES

- 1. ORIGIN OF LEVELS:- REFER SURVEY NOTES
- 2. REFER TO GEOTECHNICAL REPORT PREPARED BY DOUGLAS PARTNERS PROVIDED BY LENDLEASE FOR SITE PREPARATION REQUIREMENTS
- 3. STRIP ALL TOPSOIL/ORGANIC MATERIAL FROM CONSTRUCTION AREA AND REMOVE FROM SITE OR STOCK PILE AS DIRECTED BY SUPERINTENDENT.
- 4. EXCAVATED MATERIAL TO BE USED AS STRUCTURAL FILL PROVIDED THE PLACEMENT MOISTURE CONTENT OF THE MATERIAL IS +/- 2% OF THE OPTIMUM MOISTURE CONTENT.
- 5. COMPACT FILL AREAS AND SUBGRADE TO NOT LESS THAN:

LOCATION	STANDARD DRY DENSITY (AS 1289 5.1.1.)
UNDER ROADS AND CARPARKS	98%
UNDER BUILDING SLABS	100%
LANDSCAPED AREAS	98%
- 6. FOR NON COHESIVE MATERIAL, COMPACT TO NOT LESS THAN 75% DENSITY INDEX
- 7. BEFORE PLACING FILL, PROOF ROLL EXPOSED SUBGRADE WITH AN 8 TO 10 TONNE (MIN) DEADWEIGHT THREE POINT STEEL WHEELED ROLLER TO DETECT THEN REMOVE SOFT SPOTS (AREAS WITH MORE THAN 2mm MOVEMENT UNDER ROLLER).
- 8. EARTHWORKS ARE TO BE INSPECTED AND TESTED BY AN INDEPENDENT GEOTECHNICAL TESTING AUTHORITY TO LEVEL 1 RESPONSIBILITY AS DEFINED IN AS 3798.
- 9. FILLING TO BE PLACED IN MAXIMUM 250mm - LOOSE LAYERS AND COMPACTED AS SPECIFIED.
- 10. NO FILLING SHALL TAKE PLACE TO EXPOSED SUBGRADE UNTIL THE AREA HAS BEEN PROOF ROLLED IN THE PRESENCE OF GEOTECHNICAL ENGINEER AND APPROVAL GIVEN IN WRITING THAT FILLING CAN PROCEED.

SEDIMENT AND EROSION CONTROL LEGEND

	TEMPORARY STABILISED SITE ACCESS AND TRUCK WASH DOWN
	STRAW BALE SEDIMENT FILTER
	SITE FENCE
	SEDIMENT FENCE
	DIVERSION BANK AND CHANNEL
	GEOTEXTILE FILTER FABRIC DROP INLET SEDIMENT TRAP
	SANDBAG SEDIMENT TRAP FOR KERB INLET ON GRADE
	MESH AND GRAVEL INLET FILTER
	INDICATIVE STOCKPILE LOCATIONS
	SITE ENTRANCE
	TEMPORARY SEDIMENT BASIN

ROOF WATER KERB OUTLETS

- 1. KERB OUTLETS TO BE PROVIDED IN ACCORDANCE WITH PENRITH CITY COUNCILS CIVIL WORKS SPECIFICATION AT EACH LOT WHERE INTERALLOTMENT DRAINAGE IS NOT PROVIDED
- 2. KERB OUTLETS ARE TO BE CONSTRUCTED AT THE SAME TIME KERBS ARE POURED.
- 3. ALIGNMENT OF KERB OUTLET PIPE TO BE ADJUSTED ON SITE TO AVOID SERVICE CLASHES.

TELSTRA - DUTY OF CARE NOTE

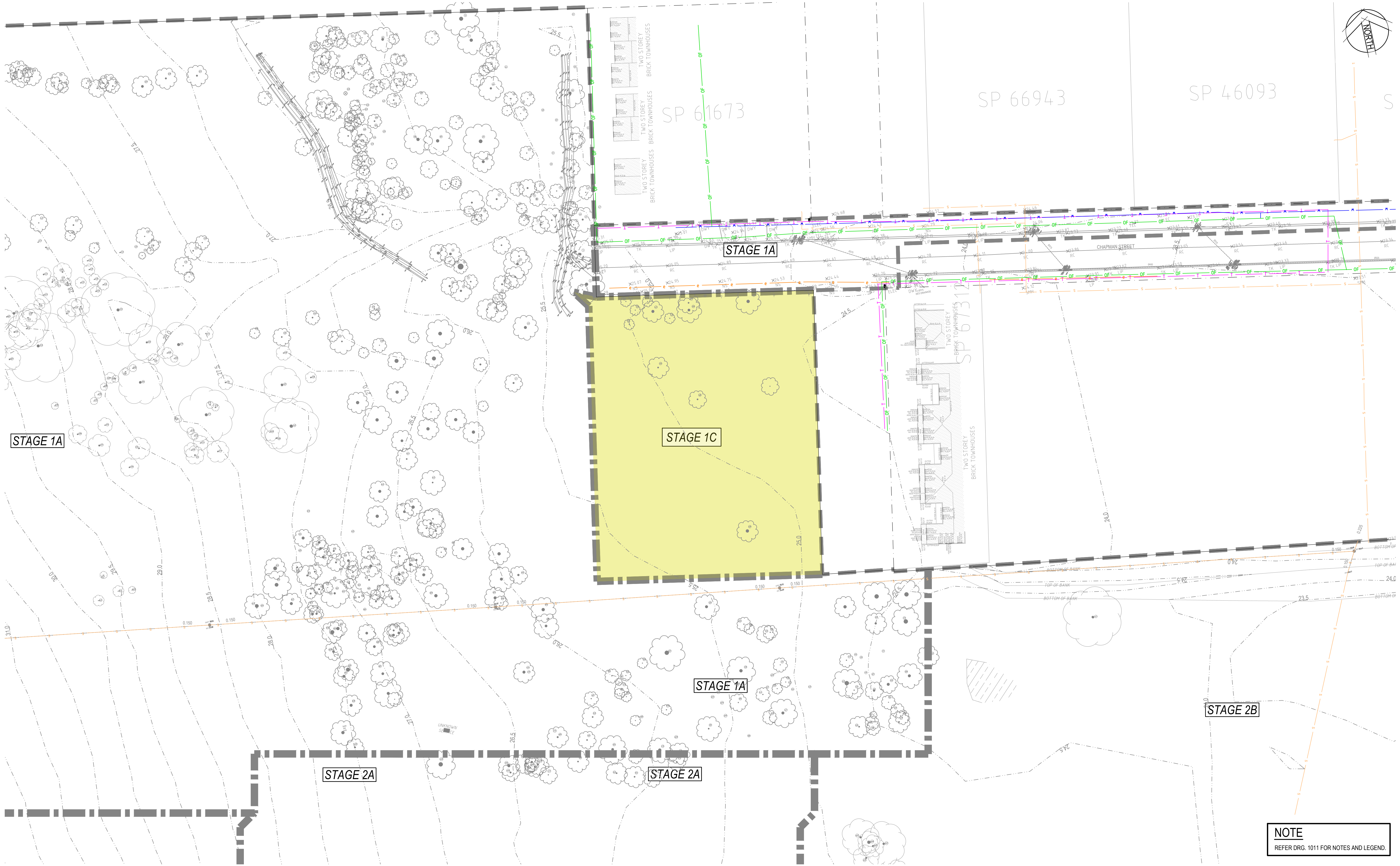
TELSTRA'S PLANS SHOW ONLY THE PRESENCE OF CABLES AND PLANT. THEY ONLY SHOW THEIR POSITION RELATIVE TO ROAD BOUNDARIES, PROPERTY FENCES ETC. AT THE TIME OF INSTALLATION AND TELSTRA DOES NOT WARRANT OR HOLD OUT THAT SUCH PLANS ARE ACCURATE. THEREAFTER DUE TO CHANGES THAT MAY OCCUR OVER TIME. DO NOT ASSUME DEPTH OR ALIGNMENT OF CABLES OR PLANT AS THESE VARY SIGNIFICANTLY. THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR TELSTRA CABLES AND PLANT. BEFORE USING MACHINE EXCAVATORS TELSTRA PLANT MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG POTHOLING TO IDENTIFY ITS LOCATION TELSTRA WILL SEEK COMPENSATION FOR DAMAGES CAUSED TO ITS PROPERTY AND LOSSES CAUSED TO TELSTRA AND ITS CUSTOMERS.

PROPOSED WORKS LEGEND

	EXTENT OF WORK
	STAGE BOUNDARY
	PROPOSED CONTOUR
	BATTER
	STRUCTURAL RETAINING WALL
	KERB & GUTTER REFER PENRITH CITY COUNCIL STANDARD DETAIL.
	VEHICULAR CROSSING REFER PENRITH CITY COUNCIL STANDARD DETAIL.
	KERB RAMP AS PER COUNCIL STANDARDS
	SITE FENCE
	FLOW DIRECTION STORMWATER PIPE PIPE DIAMETER
	DRAINAGE CAP
	CONCRETE HEADWALL
	KERB INLET WITH LINTEL.
	JUNCTION PIT
	GRATED INLET PIT
	SCOUR PROTECTION
	TREES TO BE RETAINED
	TREES TO BE REMOVED.
	APZ BOUNDARY
	BOLLARD

DATE PLOTTED: 19 February, 2020 5:24 PM BY: HAYDEN DAVENPORT

XREFs: XR-80219053-CI-BOUNDARY; XR-80219053-CI-SURVEY; XR-80219053-CI-EXISTING SERVICES; XR-80219053-CI-CONTROL; XR-80219053-CI-EXIST CONTOURS-500
CAD File: N:\Projects\80219053-Chapman St Werrington\Drawings\Build\003 STAGE 1C\DA003-1C-CI-1051 EXISTING SERVICES AND SURVEY PLAN - STAGE 1C.dwg



NOTE
REFER DRG. 1011 FOR NOTES AND LEGEND.

Rev.	Date	Description	Des.	Verif.	Appd.
1	17/02/2020	REVISION IN PROGRESS			



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Drawn TPB	Date 12/02/2020
Checked PL	Date 19/02/2020
Designed HLD	Date 12/02/2020
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Approved ALG	Date 12/02/2020

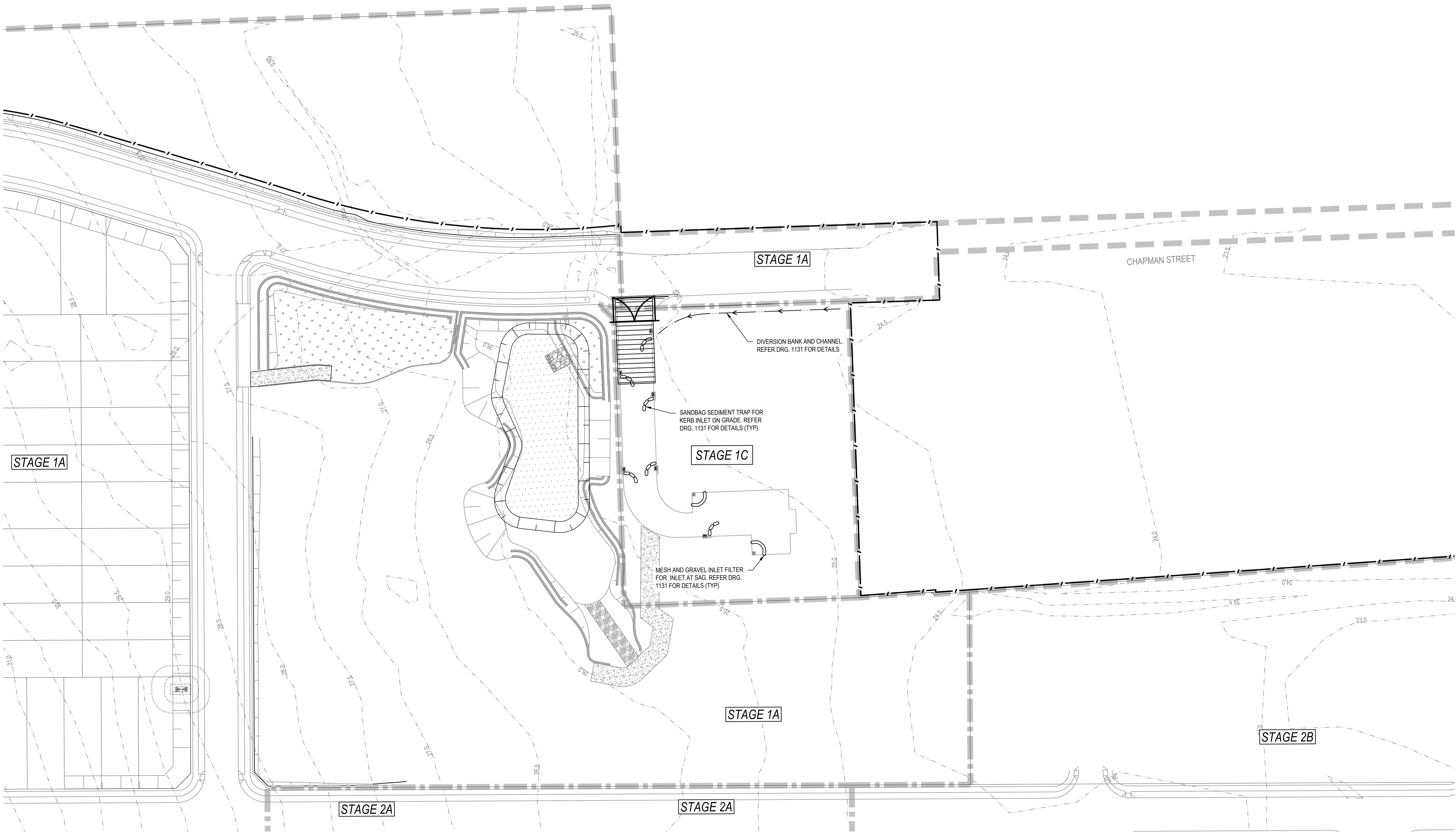
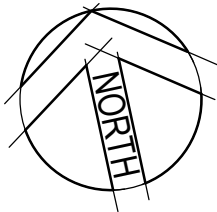
Client LENLEASE COMMUNITIES	Project CHAPMAN STREET WERRINGTON - STAGE 1C
CIVIL WORKS DEVELOPMENT APPLICATION	EXISTING SERVICES AND SURVEY PLAN

Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES	Datum A.H.D	Date FEB' 2020	Scale 1:500	Size A1
Drawing Number 80219053-DA003-1C-CI-1051	Revision 1			

XREFs: XR-80219053-CI-BOUNDARY; XR-80219053-CI-LOT LAYOUT; XR-80219053-CI-STORMWATER; XR-80219053-CI-ROAD; XR-80219053-CI-SITEWORKS; XR-80219053-CI-CONTROL; XR-80219053-CI-OSD-PLAN; XR-80219053-CI-EXIST CONTOURS-500; XR-80219053-CI-SED-EROS; XR-80219053-CI-ROUNDABOUT; XR-80219053-CI-SURVEY; XR-80219053-CI-SED-EROS-STAGE 1C; XR-80219053-
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NOTE

REFER DRG. 1011 FOR NOTES AND LEGEND.



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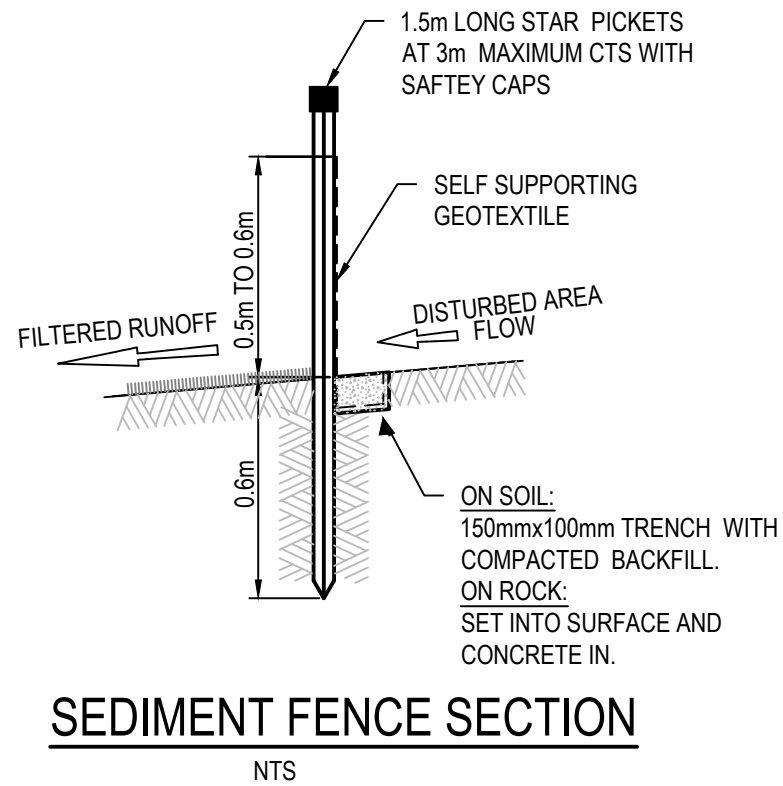
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Drawn	TPB	Date	12/02/2020
Checked	PL	Date	19/02/2020
Designed	HLD	Date	12/02/2020
Verified	ALG	Date	12/02/2020
Approved			
ALG			12/02/2020

Client	LENLEASE COMMUNITIES
Project	CHAPMAN STREET WERRINGTON - STAGE 1C
	CIVIL WORKS
	DEVELOPMENT APPLICATION
Title	EROSION AND SEDIMENTATION CONTROL PLAN

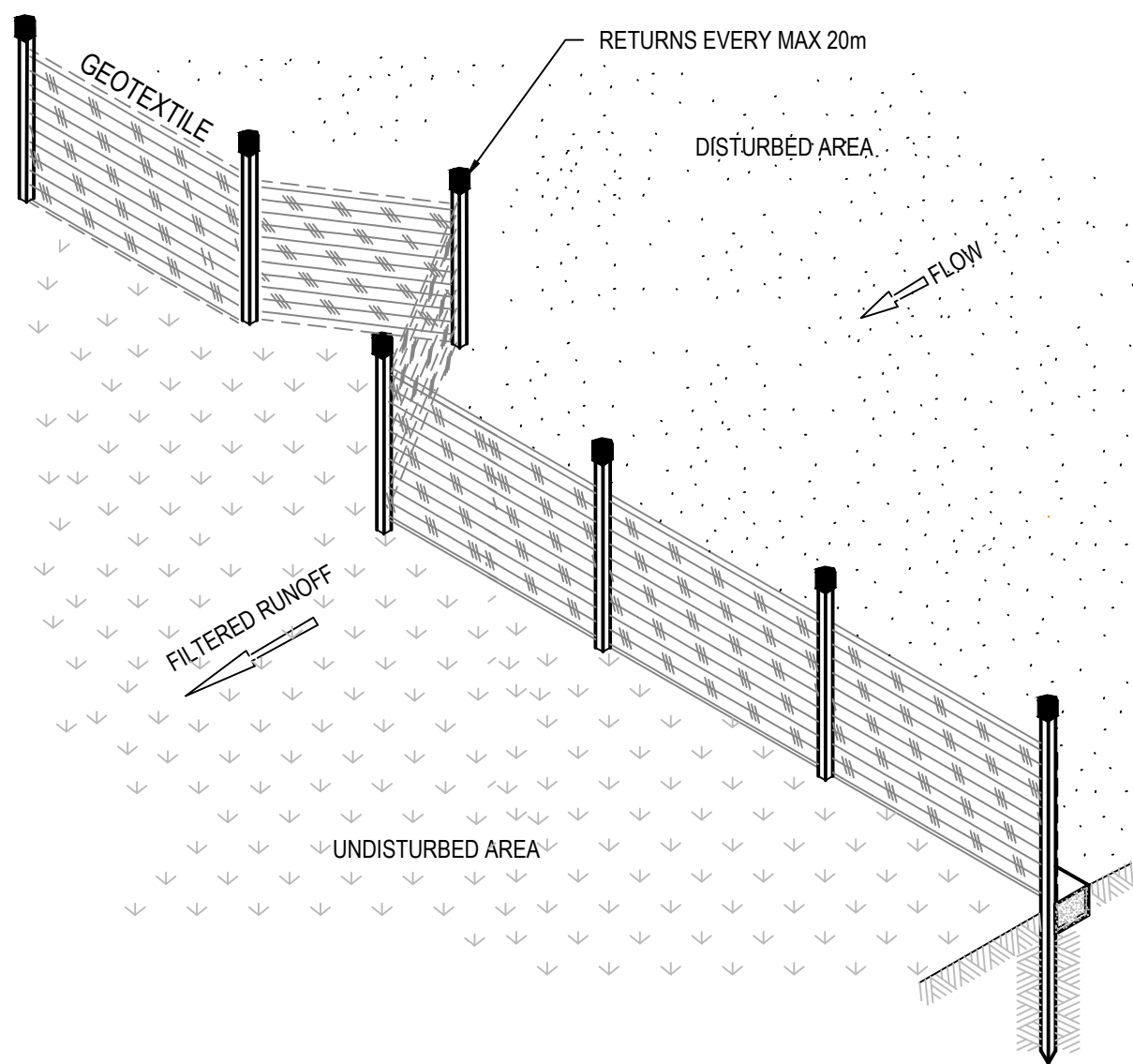
Status				
FOR APPROVAL				
NOT TO BE USED FOR CONSTRUCTION PURPOSES				
Datum	Date	Scale	Size	
A.H.D	FEB' 2020	1:500	A1	
Drawing Number			Revision	
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DATE PLOTTED: 19 February, 2020 5:24 PM BY: HAYDEN DAVENPORT



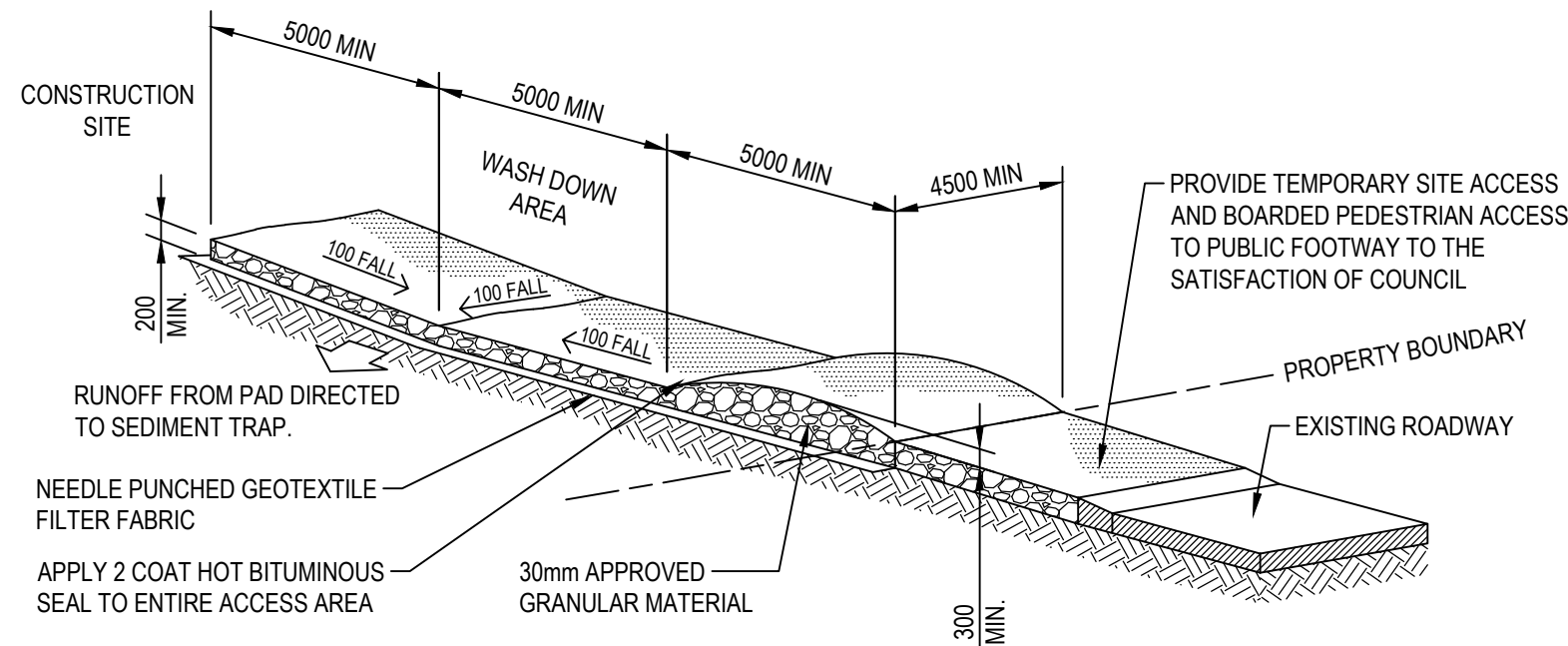
SEDIMENT FENCE SECTION

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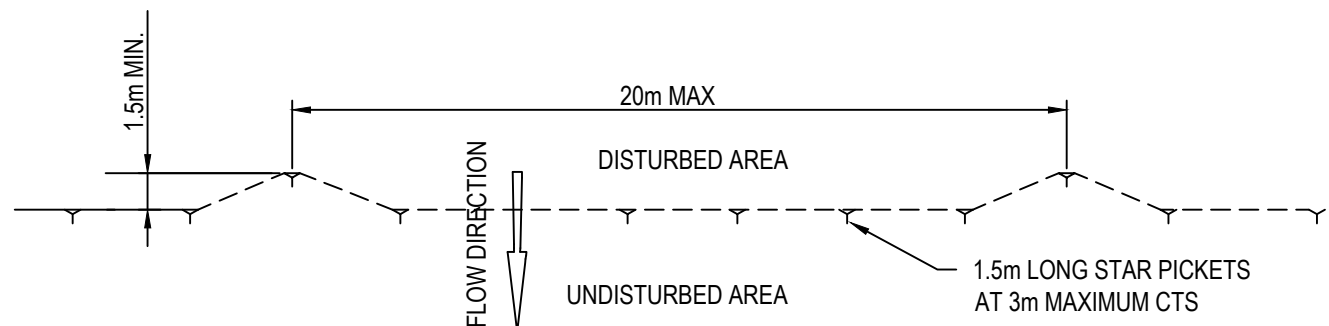
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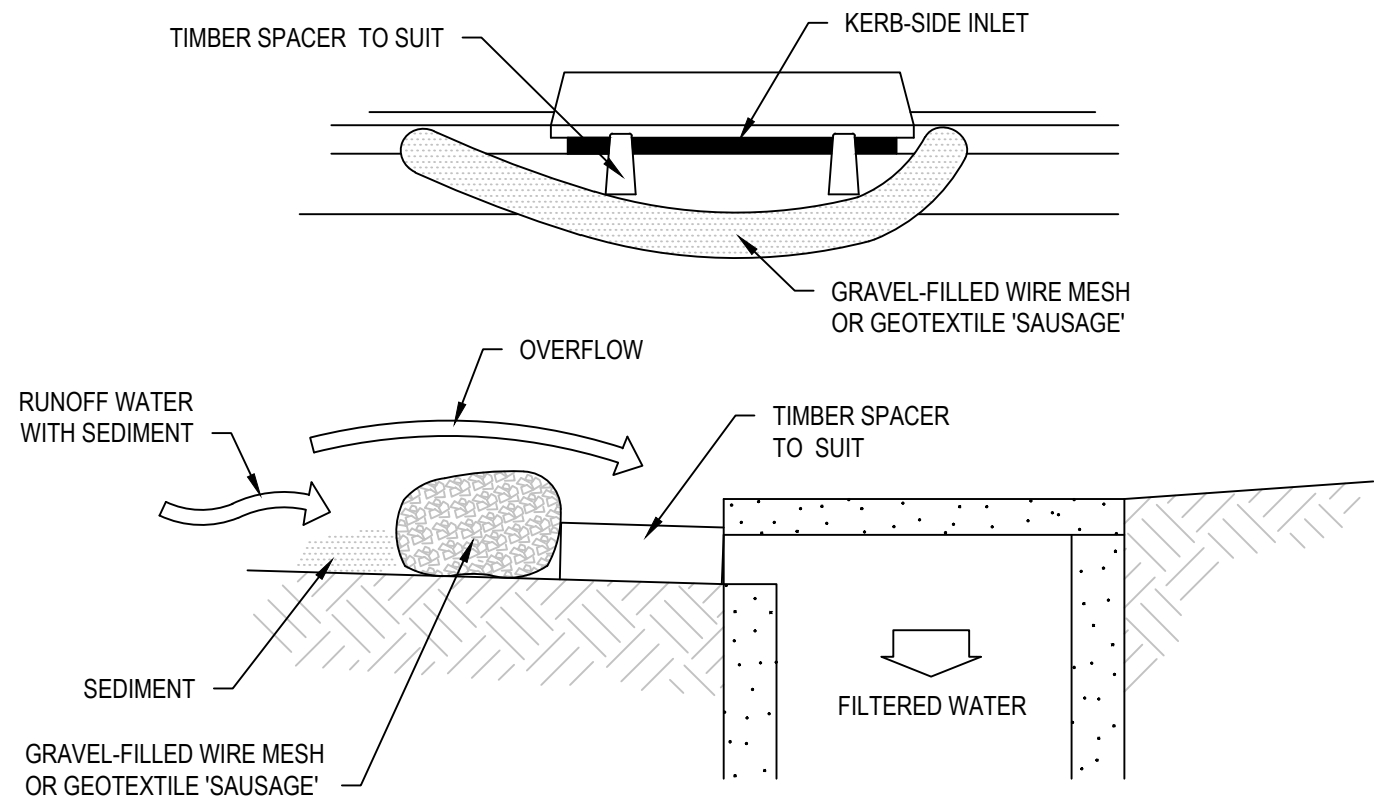
STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA

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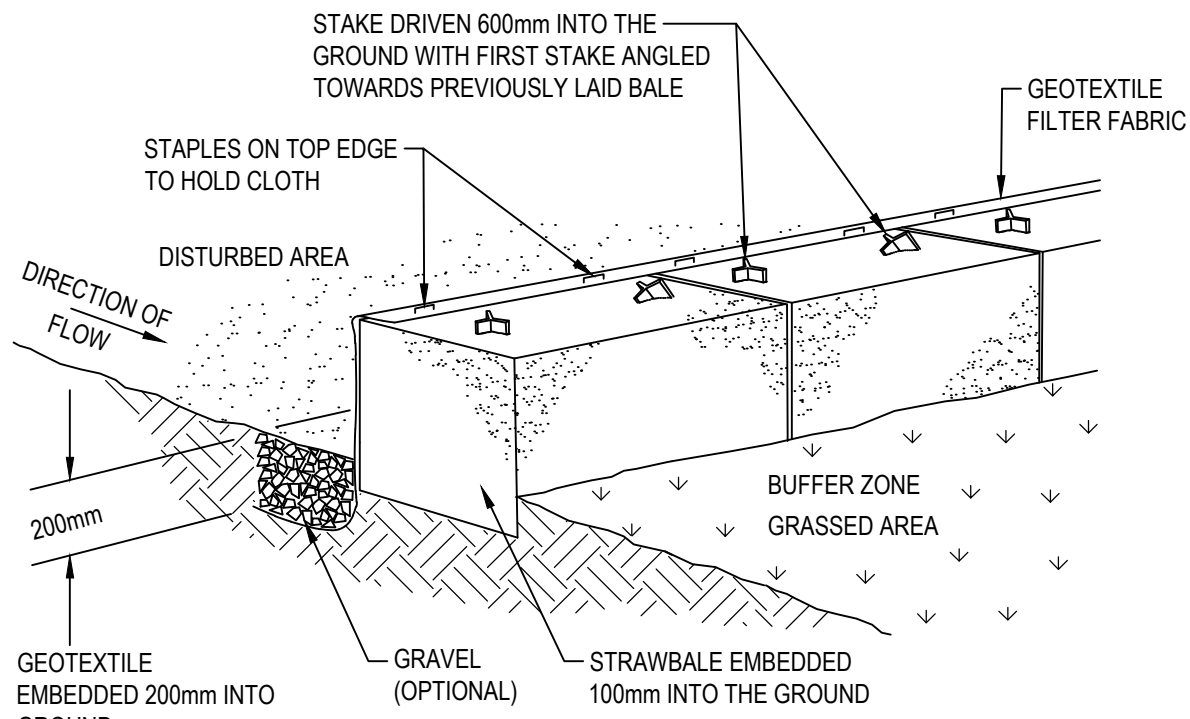
SEDIMENT FENCE PLAN

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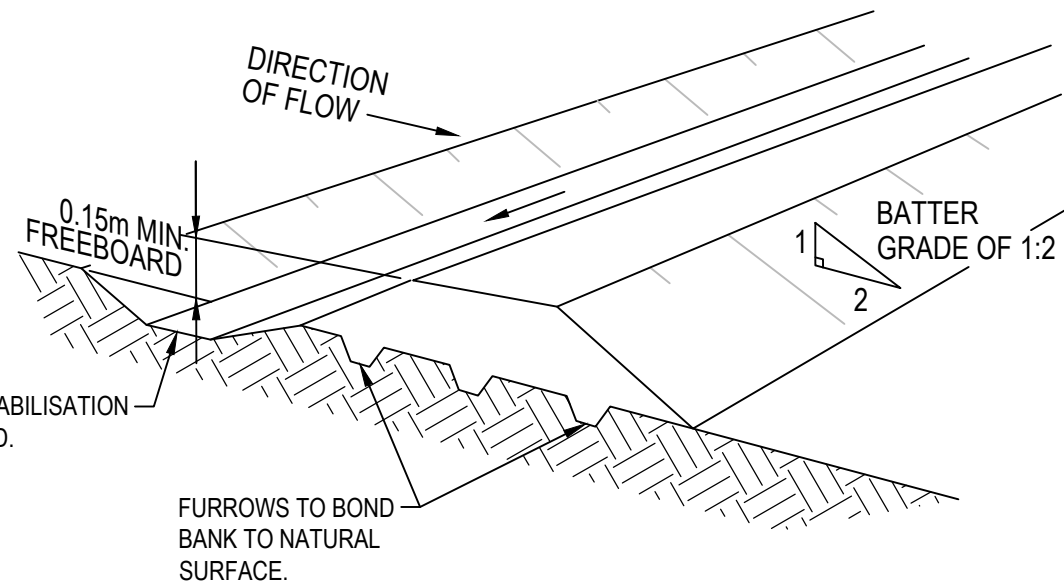
MESH AND GRAVEL INLET FILTER

NTS



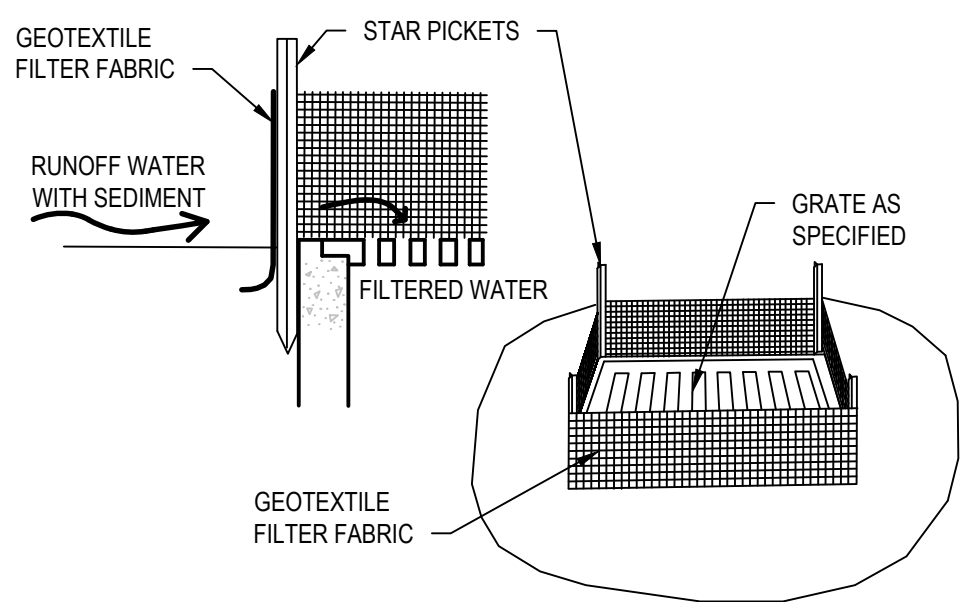
STRAWBALE AND GEOTEXTILE SEDIMENT FILTER

NTS



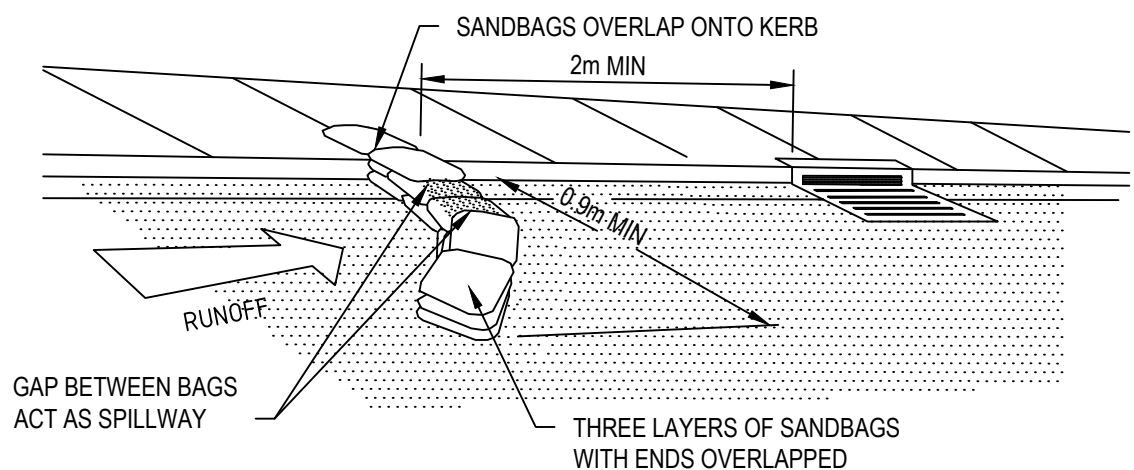
DIVERSION BANK AND CHANNEL

NTS



GEOTEXTILE FILTER PIT SURROUND

NTS



SANDBAG SEDIMENT TRAP
FOR KERB INLET ON GRADE

NTS

XREF's: CAD File: N:\Projects\802\CY19053 - Chapman St Werrington\Drawings\Build\003 STAGE 1C\DA\Drawings\802 19053-DA003-1C-1131 EROSION AND SEDIMENTATION CONTROL DETAILS - STAGE 1C.dwg

Rev.	Date	Description	Des.	Verif.	Appd.
1	17/02/2020	REVISION IN PROGRESS		HLD	ALG

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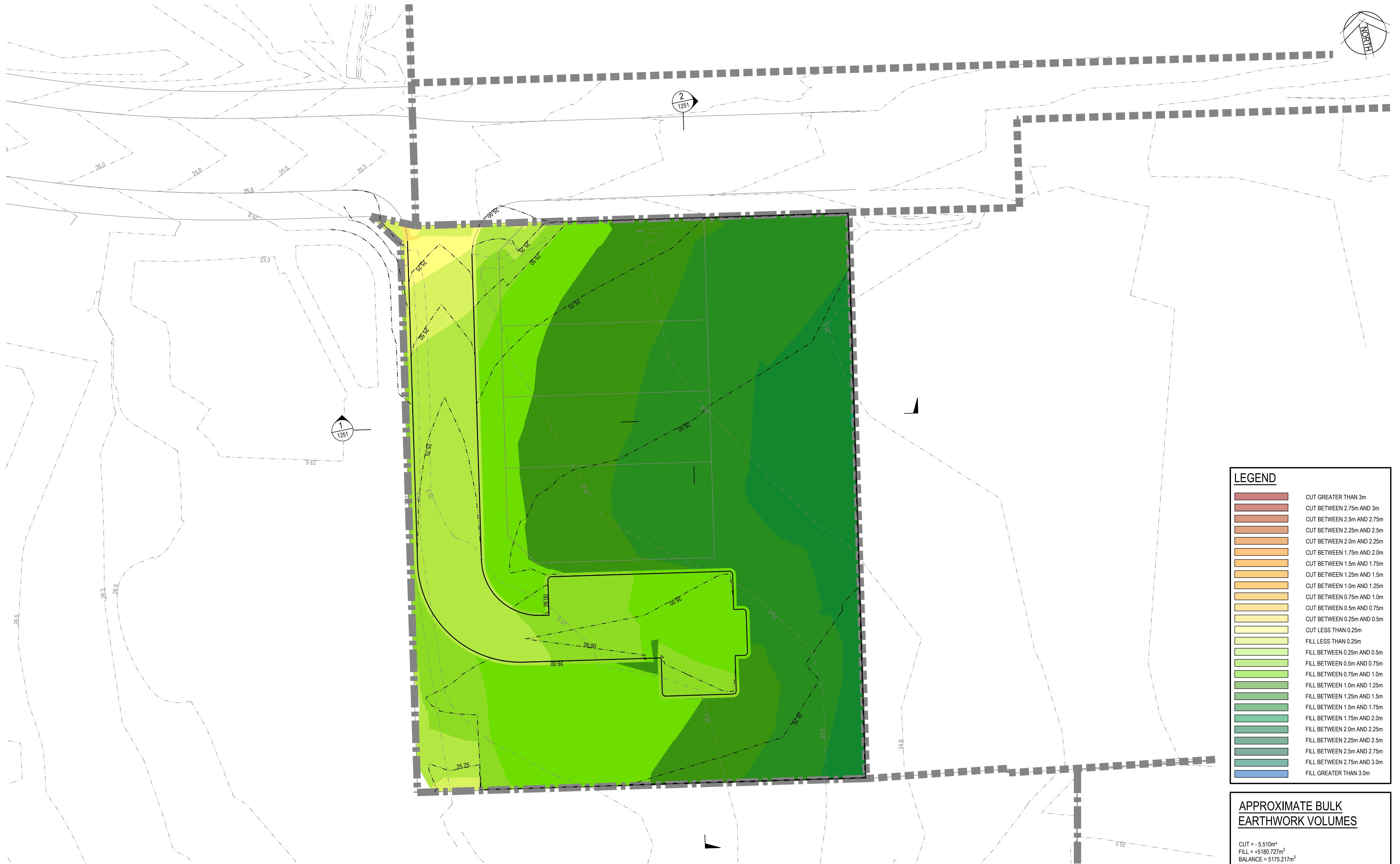


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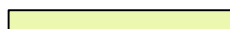
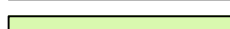
Drawn	TPB	Date	12/02/2020
Checked	PL	Date	19/02/2020
Designed	HLD	Date	12/02/2020
Verified	ALG	Date	12/02/2020
Approved	ALG	Date	12/02/2020

Client	LENLEASE COMMUNITIES
Project	CHAPMAN STREET WERRINGTON - STAGE 1C
Title	CIVIL WORKS DEVELOPMENT APPLICATION EROSION AND SEDIMENTATION CONTROL DETAILS

Status				FOR APPROVAL			
NOT TO BE USED FOR CONSTRUCTION PURPOSES							
Datum		Date		Scale		Size	
A.H.D		FEB' 2020		AS SHOWN		A1	
Drawing Number						Revision	
80219053-DA003-1C-CI-1131						1	

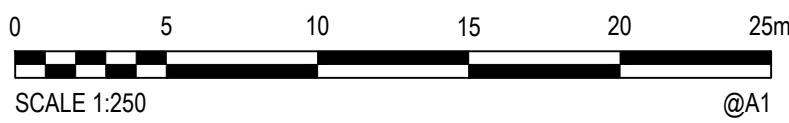


LEGEND

	CUT GREATER THAN 3m
	CUT BETWEEN 2.75m AND 3m
	CUT BETWEEN 2.5m AND 2.75m
	CUT BETWEEN 2.25m AND 2.5m
	CUT BETWEEN 2.0m AND 2.25m
	CUT BETWEEN 1.75m AND 2.0m
	CUT BETWEEN 1.5m AND 1.75m
	CUT BETWEEN 1.25m AND 1.5m
	CUT BETWEEN 1.0m AND 1.25m
	CUT BETWEEN 0.75m AND 1.0m
	CUT BETWEEN 0.5m AND 0.75m
	CUT BETWEEN 0.25m AND 0.5m
	CUT LESS THAN 0.25m
	FILL LESS THAN 0.25m
	FILL BETWEEN 0.25m AND 0.5m
	FILL BETWEEN 0.5m AND 0.75m
	FILL BETWEEN 0.75m AND 1.0m
	FILL BETWEEN 1.0m AND 1.25m
	FILL BETWEEN 1.25m AND 1.5m
	FILL BETWEEN 1.5m AND 1.75m
	FILL BETWEEN 1.75m AND 2.0m
	FILL BETWEEN 2.0m AND 2.25m
	FILL BETWEEN 2.25m AND 2.5m
	FILL BETWEEN 2.5m AND 2.75m
	FILL BETWEEN 2.75m AND 3.0m
	FILL GREATER THAN 3.0m

APPROXIMATE BULK EARTHWORK VOLUMES

CUT = - 5.510m³
FILL = +5180.727m³
BALANCE = 5175.217m³

[illegible]

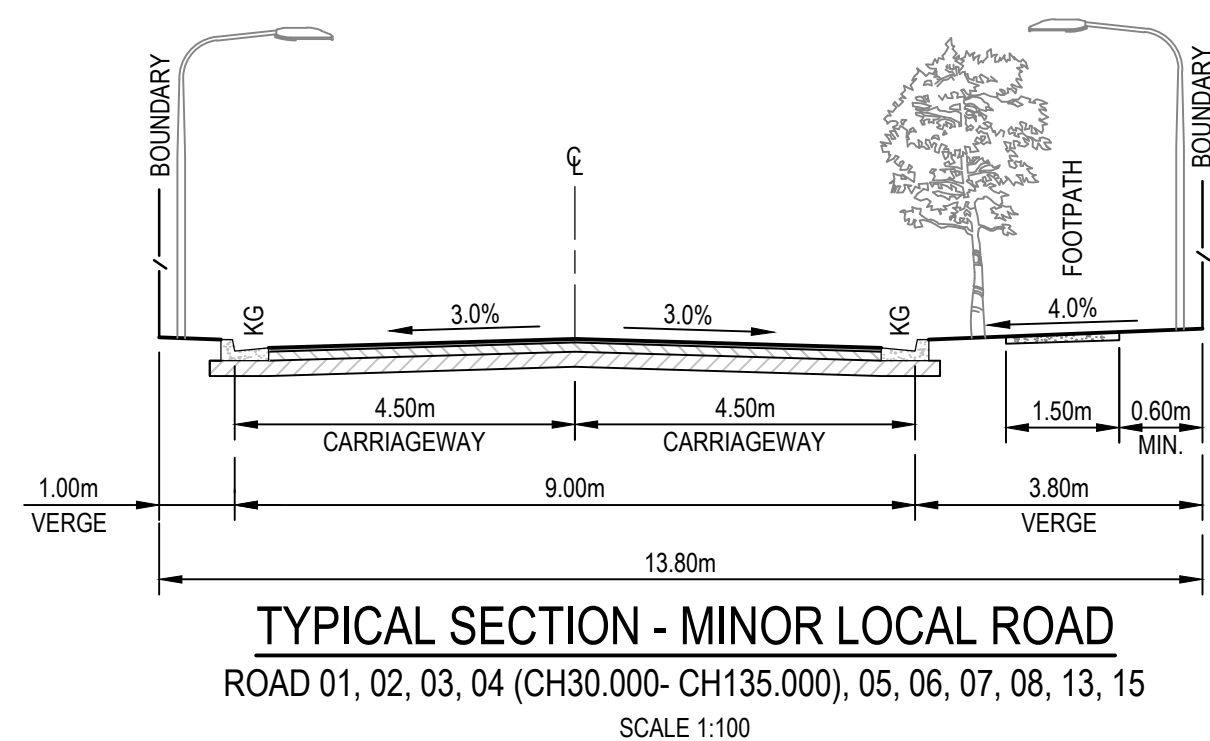
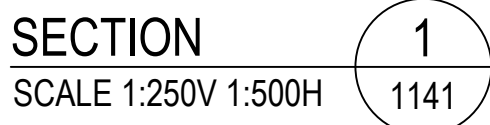
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Verified	Date
ALG	12/02/2020
Approved	
ALG	12/02/2020

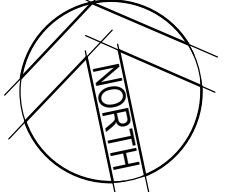
Client	LENLEASE COMMUNITIES
Project	CHAPMAN STREET WERRINGTON - STAGE 1C CIVIL WORKS DEVELOPMENT APPLICATION
Title	CUT AND FILL PLAN

Status			
FOR APPROVAL			
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Date	Date	Scale	Size
A.H.D	FEB' 2020	1:250	A1
Drawing Number			Revision
80219053-DA003-1C-CI-1141			1



Drawn	Date
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HLD	17/02/2020
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ALG	17/02/2020
Approved	
ALG	17/02/2020

Status				
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Date	Date	Scale	Size	
A.H.D	FEB' 2020	AS SHOWN	A1	
Drawing Number				Revision
80219053-DA003-1C-CI-1251				TU



0 5 10 15 20 25m
SCALE 1:250 @A1



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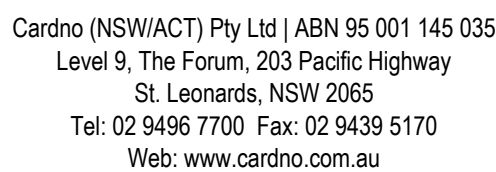
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Client	LENLEASE COMMUNITIES
Project	CHAPMAN STREET WERRINGTON - STAGE 1C CIVIL WORKS DEVELOPMENT APPLICATION
Title	SITEWORKS AND STORMWATER PLAN

Status				FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES	
Date	Date	Scale	Size		
A.H.D	FEB' 2020	1:250	A1		
Drawing Number				Revision	
80219053-DA003-1C-CI-1301				1	



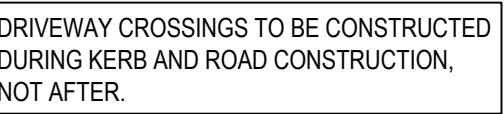
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Client	LENDLEASE COMMUNITIES
Project	CHAPMAN STREET WERRINGTON - STAGE 1C CIVIL WORKS DEVELOPMENT APPLICATION
Title	ROAD LONG SECTION

Status			
FOR APPROVAL			
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Date	Date	Scale	Size
A.H.D	FEB' 2020	AS SHOWN	A1
Drawing Number			Revision
80219053-DA003-1C-CI-1351			1

1. DRAINAGE PITS TO BE LOCATED MINIMUM 1.0m FROM EDGE OF DRIVEWAY.
2. LAYBACKS TO BE CONSTRUCTED ON PRIMARY DRIVEWAY FRONTAGE FOR CORNER LOTS UNLESS OTHERWISE NOTED ON ENGINEERING PLAN.
3. REFER TO PENRITH CITY COUNCIL SPECIFICATIONS FOR DETAILS (SD1004).
4. WATER SERVICES TO BE LOCATED WITHIN 0.6m ENVELOPE FROM SIDE BOUNDARY



1. FINAL SERVICES ALLOCATION TO BE COORDINATED WITH SERVICES AUTHORITIES

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Verified	Date
ALG	17/02/2020
Approved	
ALG	17/02/2020

Client	LENLEASE COMMUNITIES
Project	CHAPMAN STREET WERRINGTON - STAGE 1C CIVIL WORKS DEVELOPMENT APPLICATION
Title	ROAD TYPICAL DETAILS

Status				FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES	
Date/Time	Date	Scale	Size		
A.H.D	FEB' 2020	AS SHOWN	A1		
Drawing Number				Revision	
80219053-DA003-1C-CI-1601				1	



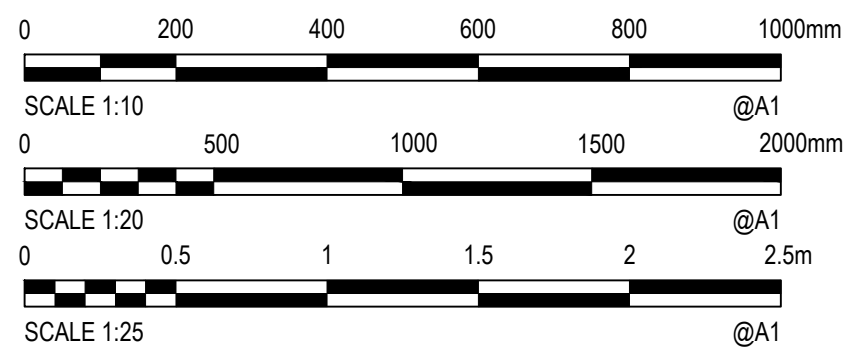
TYPICAL DETAILS OF STORMWATER PIPE OR CULVERT ALIGNMENTS THROUGH STORMWATER PITS
STORMWATER PIPE OR CULVERT ALIGNMENTS NOT SHOWN SHOULD BE CONSTRUCTED SIMILARLY
IN ORDER TO STREAMLINE FLOWS FROM UPSTREAM TO DOWNSTREAM AND MINIMISE HEADLOSS.



SCALE 1:20

1. ALL PITS EXCEEDING 1.0m DEPTH TO BE FITTED WITH STEP IRONS TO COUNCIL SPECIFICATION. REFER PCC STANDARD DRAWING SD3001 FOR DETAILS.
2. CONSTRUCT 1m APRON AROUND PIT IN ACCORDANCE WITH PCC STANDARD DRAWING SD2002.
3. ALL GRATES TO BE WELDOK OR EQUIVALENT HEAVILY GALVANISED STEEL GRATE WITH HINGED ENTRY AND LOCK DOWN "J" BOLT TO MANUFACTURERS DETAIL. ALL GRATES TO BE CLASS "N".
4. ALL GRATES TO BE CONSTRUCTED IN ACCORDANCE WITH PCC STANDARD DRAWING SD2002.

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Drawn TPB	Date 17/02/2020	Client LENLEASE COMMUNITIES			
Checked PL	Date 19/02/2020	Project CHAPMAN STREET WERRINGTON - STAGE 1C CIVIL WORKS DEVELOPMENT APPLICATION		Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES	
Designed HLD	Date 17/02/2020				
Verified ALG	Date 17/02/2020	Title STORMWATER DRAINAGE DETAILS		Datum A.H.D	
Approved				Date FEB' 2020	Scale AS SHOWN
				Size A1	
		Drawing Number 80219053-DA003-1C-CI-2201			Revision 1
ALG	17/02/2020				