

PART C - REFER DRAWING C04

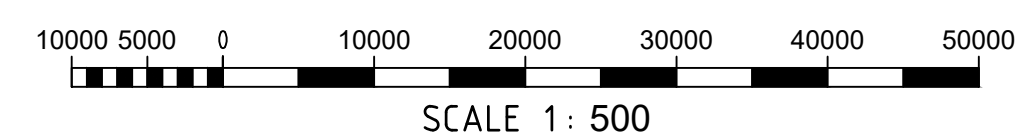
PART A - REFER DRAWING C02



LEGEND	
	SITE BOUNDARY
	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED STORMWATER DRAIN
	PROPOSED INLET PIT
	PROPOSED JUNCTION PIT
	PROPOSED STORMWATER DRAIN
	PROPOSED RETAINING WALL WITH CRASH BARRIER AS REQUIRED
PDP	PAVEMENT DRAINAGE FROM UPPER LEVEL
DP	ROOF DRAINAGE
I/O	INSPECTION OPENING
	OVERLAND FLOW PATHS FOR GREATER THAN DESIGN STORM

PART D - REFER DRAWING C05

PART B - REFER DRAWING C03



APPROVAL
ISSUE

REV No.	COMMENTS	DATE	INIT.
A	PRELIMINARY ISSUE	13.08.20	MA
B	APPROVAL ISSUE	21.08.20	MA
C	APPROVAL ISSUE	09.02.21	MA

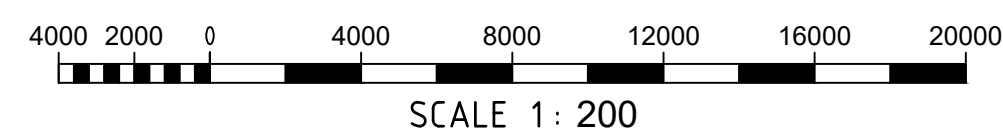
PROJECT:
WOOLWORTHS MARRICKVILLE
74 EDINBURGH ROAD,
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CLIENT:
WOOLWORTHS

Richmond+Ross PTY LIMITED
CONSULTING ENGINEERS
ABN 34 001 485 436

38 WILLOUGHBY ROAD,
CROWS NEST, NSW 2065
TEL : (02) 9490 9600
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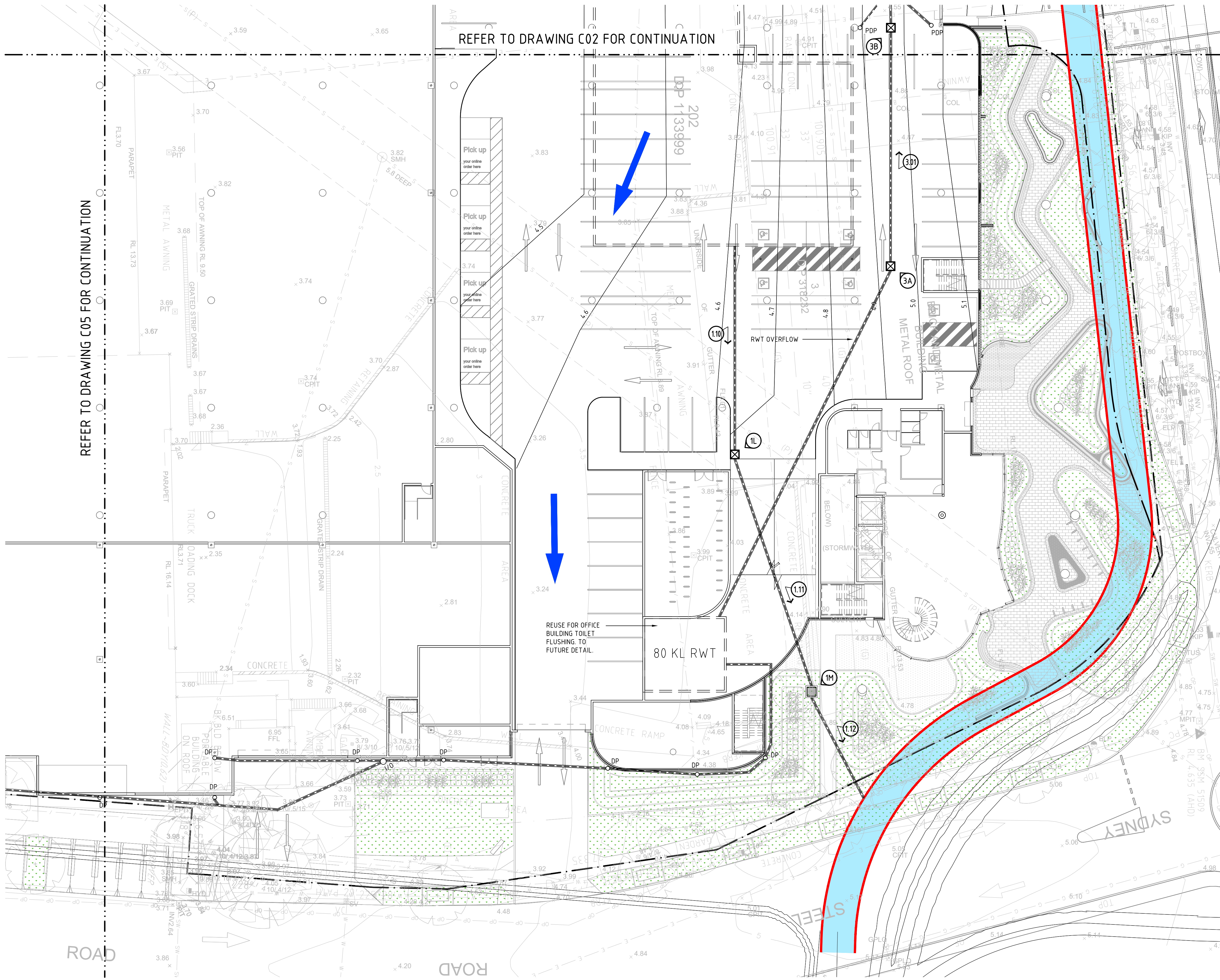
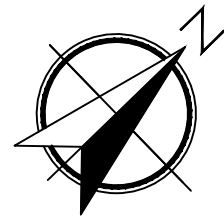
OVERALL STORMWATER PLAN GROUND LEVEL		
DATE:	AUGUST 2020	DRG.No.
SCALE:	1:500 @A1	C01
Project No.	190372	REV-C



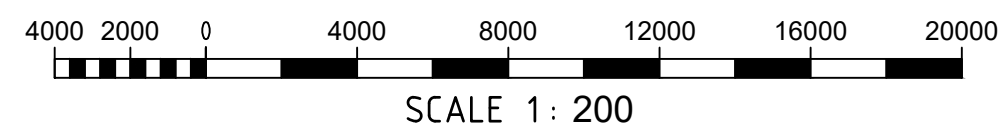
REV No.	COMMENTS	DATE	INITIALS
A	PRELIMINARY ISSUE	13.08.20	MA
B	APPROVAL ISSUE	21.08.20	MA
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DATE:	AUGUST 2020	DRG.No.
SCALE:	1:200 @A1	C02
Project No.	190372	REV-C



LEGEND	
	SITE BOUNDARY
	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED STORMWATER DRAIN
	PROPOSED INLET PIT
	PROPOSED JUNCTION PIT
	PROPOSED STORMWATER DRAIN
	PROPOSED RETAINING WALL WITH CRASH BARRIER AS REQUIRED
PDP	PAVEMENT DRAINAGE FROM UPPER LEVEL
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I/O	INSPECTION OPENING
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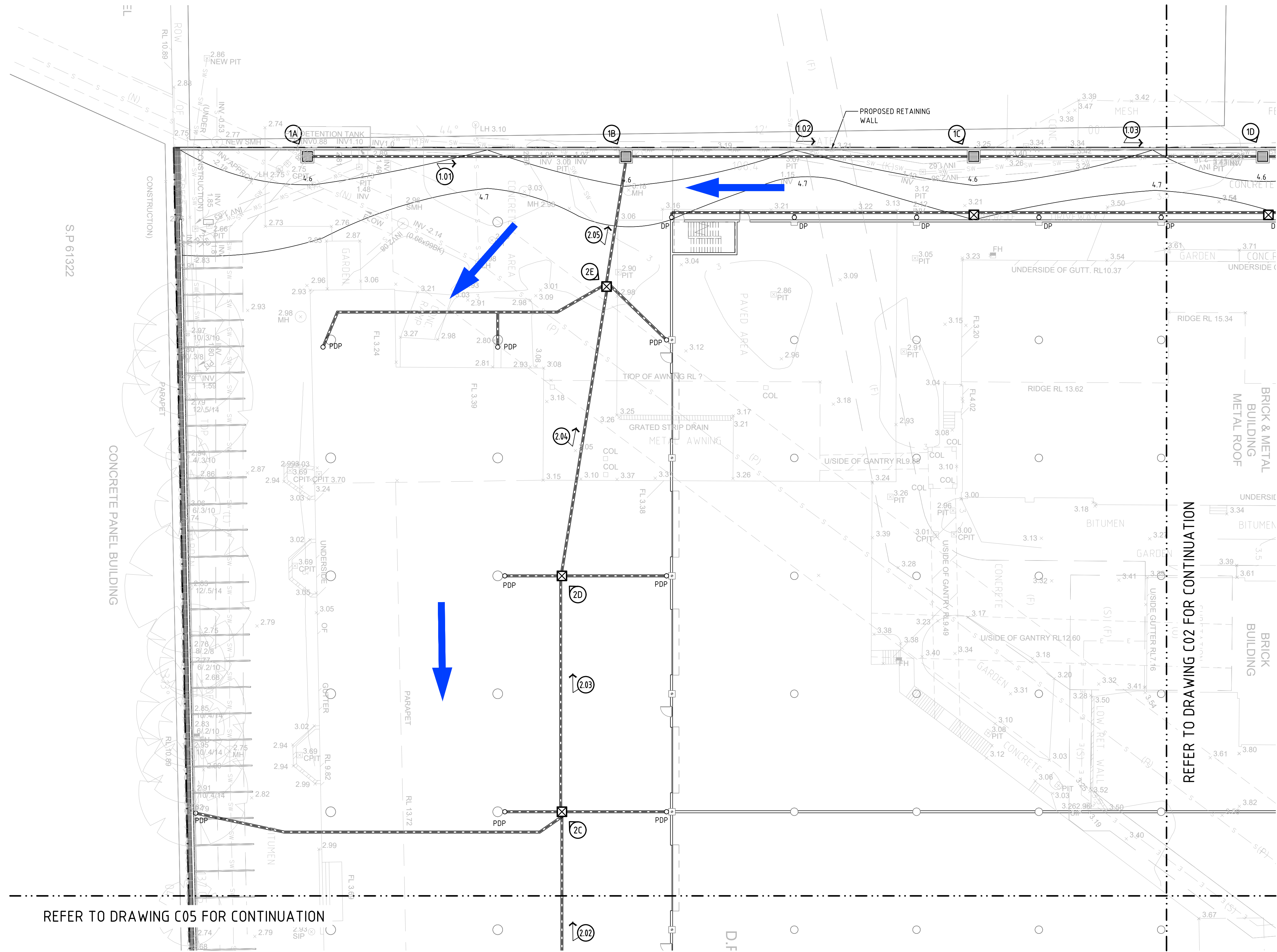
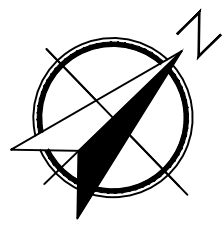
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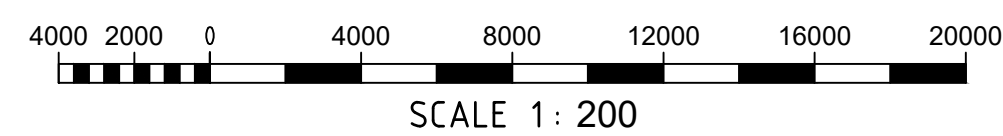
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STORMWATER PLAN GROUND LEVEL - PART B		
DATE:	AUGUST 2020	DRG.No.
SCALE:	1:200 @A1	C03
Project No.	190372	REV-C



LEGEND	
---	SITE BOUNDARY
16.0	EXISTING CONTOUR
16.0	PROPOSED CONTOUR
---	PROPOSED STORMWATER DRAIN
□	PROPOSED INLET PIT
⊗	PROPOSED JUNCTION PIT
---	PROPOSED STORMWATER DRAIN
---	PROPOSED RETAINING WALL WITH CRASH BARRIER AS REQUIRED
PDP	PAVEMENT DRAINAGE FROM UPPER LEVEL
DP	ROOF DRAINAGE
I/O	INSPECTION OPENING
→	OVERLAND FLOW PATHS FOR GREATER THAN DESIGN STORM



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C	APPROVAL ISSUE	09.02.21	MA

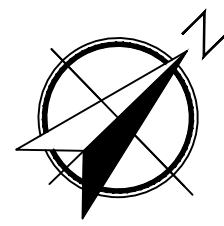
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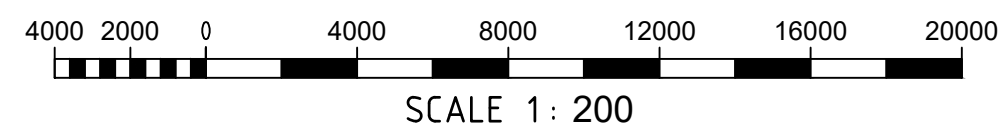
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STORMWATER PLAN GROUND LEVEL - PART C	
DATE: AUGUST 2020	DRG.No.
SCALE: 1:200 @A1	C04
Project No. 190372	REV-C



LEGEND	
	SITE BOUNDARY
	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED STORMWATER DRAIN
	PROPOSED INLET PIT
	PROPOSED JUNCTION PIT
	PROPOSED STORMWATER DRAIN
	PROPOSED RETAINING WALL WITH CRASH BARRIER AS REQUIRED
PDP	PAVEMENT DRAINAGE FROM UPPER LEVEL
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I/O	INSPECTION OPENING
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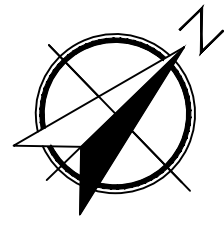
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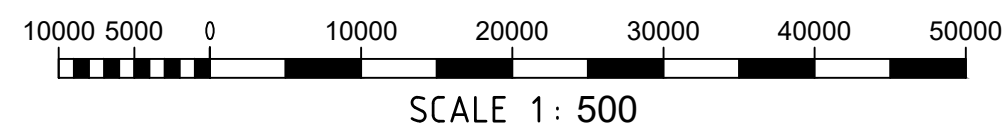
STORMWATER PLAN GROUND LEVEL - PART D		
DATE:	AUGUST 2020	DRG.No.
SCALE:	1:200 @A1	C05
Project No.	190372	REV-C



LEGEND

*

SLAB PIT WITH DOWNPIPE



APPROVAL

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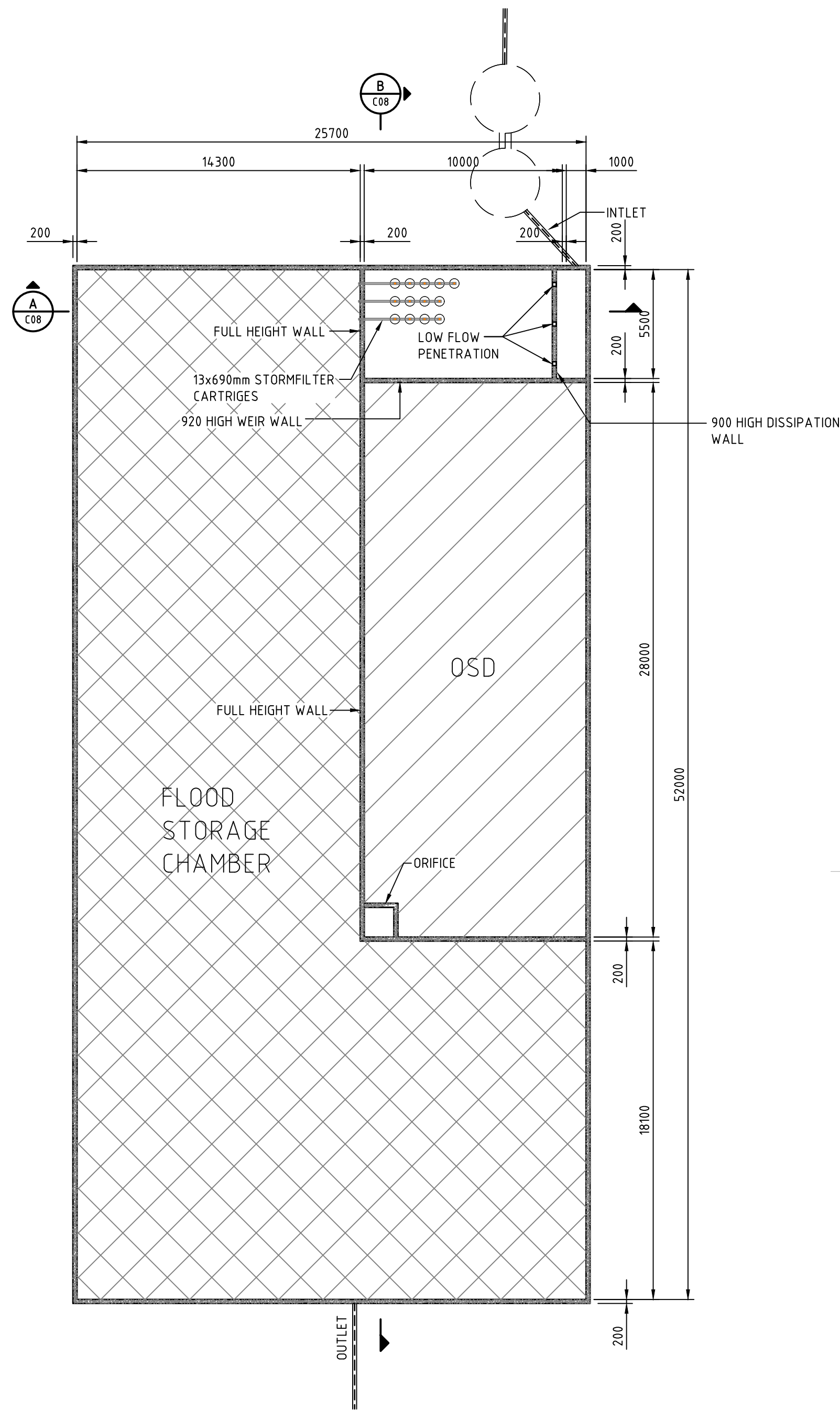
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STORMWATER PLAN ROOF LEVEL	
DATE: AUGUST 2020	DRG.No.
SCALE: 1:500 @A1	C06
Project No. 190372	REV-C



APPROVAL
ISSUE

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C	APPROVAL ISSUE	31.08.20	MA
D	APPROVAL ISSUE	09.02.20	MA

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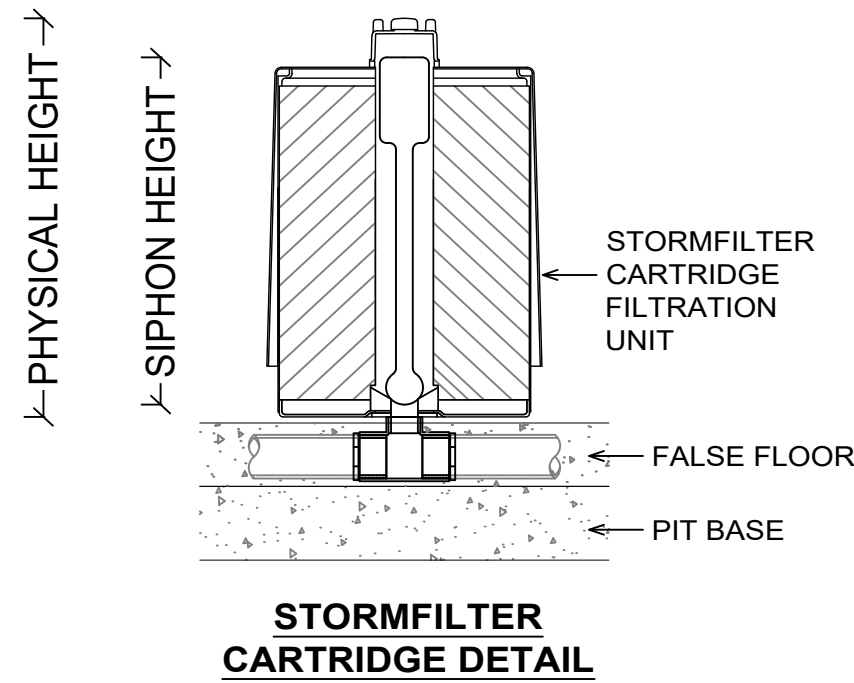
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OSD PLAN		
DATE:	AUGUST 2020	DRG.No.
SCALE:	AS SHOWN @A1	C07
Project No.	190372	REV-D

STORMFILTER DESIGN TABLE

- STORMFILTER TREATMENT CAPACITY VARIES BY NUMBER OF FILTER CARTRIDGES INSTALLED.
- THE STANDARD CONFIGURATION IS SHOWN. ACTUAL CONFIGURATION OF THE SPECIFIED STRUCTURE(S) PER CERTIFYING ENGINEER WILL BE SHOWN ON SUBMITTAL DRAWING(S).
- FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF-CLEANING. RADIAL MEDIA DEPTH SHALL BE 178mm.

CARTRIDGE NAME / SIPHON HEIGHT (mm)	690	460	310
CARTRIDGE PHYSICAL HEIGHT (mm)	840	600	600
TYPICAL WEIR HEIGHT [H] (mm)	920	690	540
CARTRIDGE FLOW RATE FOR ZPG MEDIA (L/s)	1.6	1.1	0.7
CARTRIDGE FLOW RATE FOR PSORB MEDIA (L/s)	0.9	0.46	0.39



STORMFILTER
CARTRIDGE DETAIL

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	[]
NUMBER OF CARTRIDGES REQ'D	[]
SIPHON HEIGHT (310 / 460 / 690)	[]
MEDIA TYPE (ZPG / PSORB)	[]
WATER QUALITY FLOW RATE (L/S)	[]

DIMENSION A	[]
DIMENSION B	[]

TOTAL CARTRIDGE BAY AREA (A x B)
TO MATCH AREA REQUIRED BY MUSIC
MODELLING OR COUNCIL SPECIFIC
REQUIREMENTS

GENERAL NOTES

1. INLET AND OUTLET PIPES TO BE IN ACCORDANCE WITH APPROVED PLANS.
2. A HIGH FLOW BYPASS ARRANGEMENT OR DISSIPATION STRUCTURE MAY BE REQUIRED TO MINIMISE RE-SUSPENSION OF SOLIDS OR ANY SIGNIFICANT INERTIAL FORCES ON THE CARTRIDGES.
3. ALL WATER QUALITY TREATMENT DEVICES REQUIRE PERIODIC MAINTENANCE. REFER TO OPERATION AND MAINTENANCE MANUAL FOR GUIDELINES AND ACCESS REQUIREMENTS.
4. SITE SPECIFIC PRODUCTION DRAWING WILL BE PROVIDED ON PLACEMENT OF ORDER.
5. THE INVERT LEVEL OF THE INLET PIPE MUST BE GREATER THAN THE RL OF THE FALSE FLOOR WITHIN THE CARTRIDGE CHAMBER.
6. CONCRETE STRUCTURE AND ACCESS COVERS DESIGNED AND PROVIDED BY OTHERS. ACCESS COVERS TO BE A MINIMUM 900 X 900 ABOVE CARTRIDGES. OH&S REGARDING ACCESS COVERS AND TANK ACCESS TO BE ASSESSED BY OTHERS ON SITE.
7. THE STRUCTURE THICKNESSES SHOWN ARE FOR REPRESENTATIONAL PURPOSES.
8. DRAWINGS NOT TO SCALE.

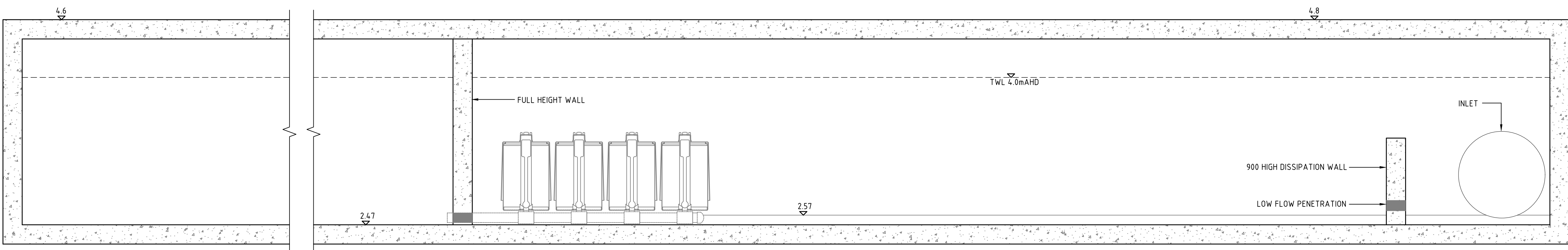
INSTALLATION NOTES

1. UNDERDRAIN AND FALSE FLOOR INSTALLED BY OCEAN PROTECT.

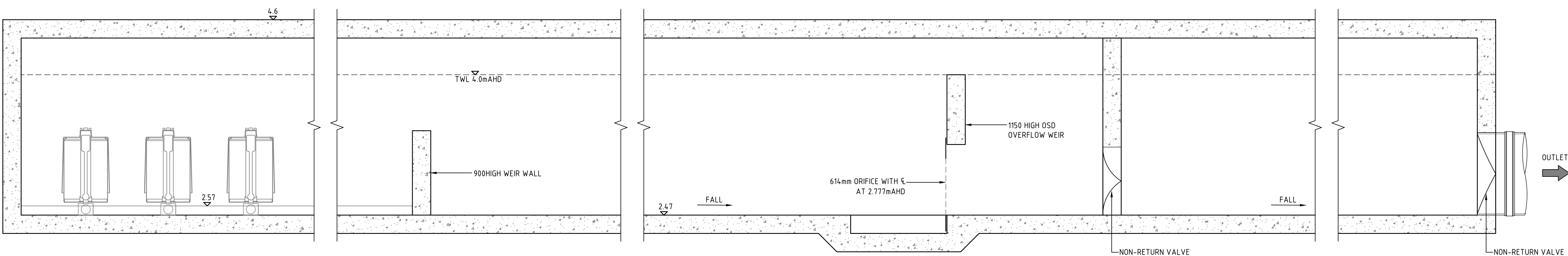


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OCEAN PROTECT
STORMFILTER SYSTEM
DETENTION TANK ARRANGEMENT
SPECIFICATION DRAWING



A SECTION
SCALE 1:25



B SECTION
SCALE 1:25



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OSD SECTIONS			
DATE:	AUGUST 2020	DRG.No.	C08
SCALE:	AS SHOWN @A1	REV	C
Project No.	190372		

STORMWATER RUNOFF CALCULATIONS

USING FORMULA $Q = 0.000278 CAI$
WHERE Q = DISCHARGE IN LITRES PER SECOND
 C = A RUNOFF COEFFICIENT (SEE TABLE)
 A = CATCHMENT AREA IN SQ.M.
 I = RAINFALL INTENSITY IN MILLIMETRES PER HOUR
 $100 I_s$ = 236 MM/HR FOR 100 YEAR RETURN PERIOD

LINE	CATCHMENT AREA (SQM) (OVERLAND FLOWS)			FLOW INTO LINE FROM CATCHMENT (L/S)			TOTAL FLOW (L/S)	MINIMUM PIPE REQUIREMENT		
	ROOF	PAVE'T	L'SCAPE	ROOF	PAVE'T	L'SCAPE		SIZE (ØMM)	GRADE (V:H)	CAPACITY (L/S)
1.01		175			10.33		10.33	150	1:51	33.24
1.02		200			11.81		451.12	600	1:194	494.60
1.03		190			11.22		462.34	600	1:196	491.54
1.04		260			15.35		477.69	600	1:200	486.75
1.05							477.69	600	1:192	497.30
1.06		380			22.44		500.13	675	1:186	688.34
1.07		550			32.48		532.61	675	1:188	685.03
1.08	6950			455.98			1624.55	900	1:150	1629.24
1.09							1624.55	900	1:133	1728.57
1.10							1624.55			
1.11							1624.55			
1.12							1624.55			
2.01		3030			178.91		178.91	450	1:167	250.48
2.02		1155			68.20		247.11	450	1:167	250.48
2.03		1210			71.45		318.56	525	1:175	366.57
2.04		1320			77.94		396.50	525	1:130	425.75
2.05		550			32.48		428.98	600	1:183	508.56
3.01	8600			564.23			564.23	600	1:100	689.89
3.02		805			47.53		611.76	600	1:100	689.89
3.03		410			24.21		635.97	600	1:100	689.89

LINE SCHEDULE

TAG	UPSTREAM INVERT	SIZE	MATERIAL	LENGTH (m)	GRADE (ACTUAL)	DOWNSTREAM INVERT	NOTES
1.01	4.050	150	uPVC	28.0	1:51	3.500	
1.02	3.480	600	RCP	31.0	1:194	3.320	
1.03	3.300	600	RCP	25.5	1:196	3.170	
1.04	3.150	600	RCP	26.0	1:200	3.020	
1.05	3.000	600	RCP	23.0	1:192	2.880	
1.06	2.860	675	RCP	13.0	1:186	2.790	
1.07	2.770	675	RCP	15.0	1:188	2.690	
1.08	2.670	900	RCP	3.0	1:150	2.650	
1.09	2.570	900	RCP	4.0	1:133	2.540	
1.10	2.530	900	RCP	21.0	1:525	2.490	
1.11	2.470	900	RCP	24.0	1:480	2.420	
1.12	2.400	900	RCP	12.0	1:600	2.380	
2.01	4.110	450	RCP	5.0	1:167	4.080	
2.02	4.060	450	RCP	20.0	1:167	3.940	
2.03	3.920	525	RCP	21.0	1:175	3.800	
2.04	3.780	525	RCP	26.0	1:130	3.580	
2.05	3.560	600	RCP	11.0	1:183	3.500	
3.01	3.900	600	RCP	23.0	1:100	3.670	
3.02	3.650	600	RCP	4.0	1:100	3.250	
3.03	3.230	600	RCP	7.0	1:100	3.160	
4.01	3.850	450x900	RCP	22.0	1:200	3.740	
4.02	3.720	450x900	RCP	26.0	1:200	3.590	

PIT SCHEDULE

TAG	TYPE	SIZE	RL TOP	IL	COVER	NOTES
1.A	INLET	450x450	4.500	4.050	CLASS D GRATE	
1.B	INLET	600x900	4.500	3.480	CLASS D GRATE	
1.C	INLET	600x900	4.500	3.300	CLASS D GRATE	
1.D	INLET	900x900	4.500	3.150	CLASS D GRATE	
1.E	JUNCTION	900x900	4.550	3.000	CLASS D SEALED LID	
1.F	INLET	1200x1200	4.500	2.860	CLASS D GRATE	
1.G	INLET	1200x1200	4.500	2.770	CLASS D GRATE	
1.H	JUNCTION	1200x1200	4.750	2.670	CLASS D SEALED LID	
1.J	HUMECEPTOR	STC 40	4.750	2.570	CLASS D SEALED LID	
1.K	OSD + FLOOD CHAMBER	TBC	4.650	2.530		ACCESS HATCHES TO BE PROVIDED AT THE DETAILED DESIGN STAGE.
1.L	JUNCTION	1200x1200	4.720	2.470		
1.M	INLET	1200x1200	5.100	2.400	CLASS D GRATE	
2.A	JUNCTION	600x600	4.860	4.110	CLASS D SEALED LID	
2.B	JUNCTION	600x600	4.860	4.060	CLASS D SEALED LID	
2.C	JUNCTION	600x900	4.860	3.920	CLASS D SEALED LID	
2.D	JUNCTION	600x900	4.860	3.780	CLASS D SEALED LID	
2.E	JUNCTION	900x900	4.860	3.560	CLASS D SEALED LID	
3.A	JUNCTION	600x900	4.950	3.900	CLASS D SEALED LID	
3.B	JUNCTION	900x900	4.950	3.650	CLASS D SEALED LID	
3.C	JUNCTION	900x900	4.950	3.230	CLASS D SEALED LID	
4.A	KERB INLET PIT	1200X1200 WITH 2.4M LINTEL	4.300	3.850	CLASS D GRATE	
4.B	JUNCTION	900x900	4.520	3.720	CLASS D SEALED LID	

STORMWATER DISPOSAL PHILOSOPHY

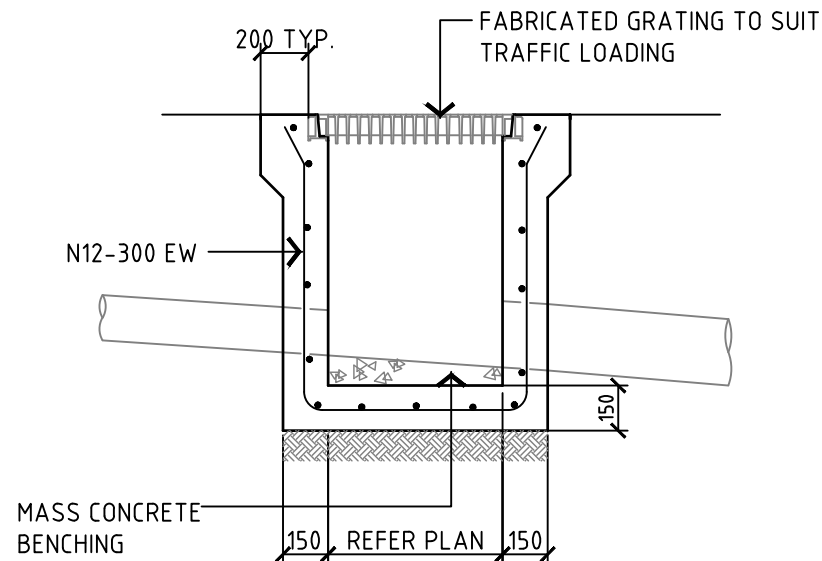
- COLLECT ALL SITE RUNOFF FROM SURFACE GRADES, SUMPS AND UNDERGROUND DRAINS PRIOR TO DISCHARGE TO EXISTING OUTFALL.
- ROOF RUNOFF TO BE DIRECTED INTO SITE STORMWATER SYSTEM.
- UNDERCANOPY RUNOFF TO BE COLLECTED SEPARATELY AND DIRECTED TO CPS UNIT PRIOR TO DISCHARGE TO SYSTEM. SYSTEM APPROVAL TO BE OBTAINED FROM RELEVANT AUTHORITY.
- ON-SITE UNDERGROUND DRAINAGE HAS BEEN DESIGNED FOR 1 IN 100 YEAR FLOWS, TO CONNECT INTO COUNCIL SYSTEM VIA EXISTING OUTFALL.

GENERAL NOTES

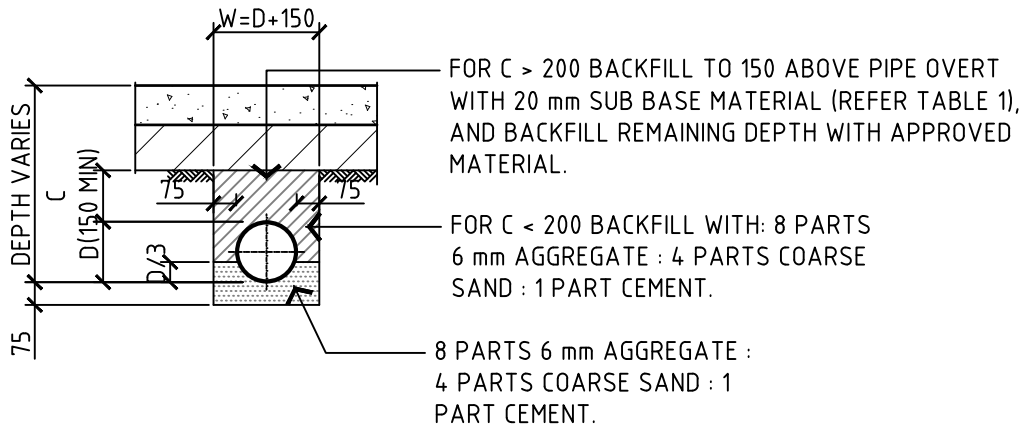
- FIT STEP IRONS TO PITS DEEPER THAN 1000 EXCLUDING CPS PIT.
- ALL GRATES TO BE WELDED CONSTRUCTION SUPPLIED COMPLETE WITH H.D. BOLTS AND FRAMES. PROVIDE FLATTENED EXPANDED METAL TO ALL GRATES
- ALL PIT COVERS & GRATES TO BE SECURELY BOLTED DOWN.
- ALL UPVC PIPES TO HAVE SOLVENT WELDED JOINTS.

STORMWATER NOTES

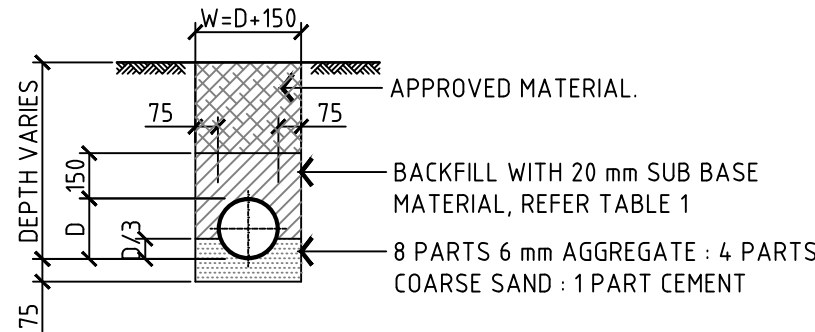
- THIS IS A STORMWATER DRAINAGE PLAN ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT INFORMATION.
- ALL DRAINAGE LAYOUTS, LEVELS & DETAILS ARE DIAGRAMMATIC AND INDICATIVE ONLY.
- DRAINAGE LAYOUTS SHOWN ARE DIAGRAMMATIC ONLY. NOTE ONLY MAJOR LINES ARE SHOWN.
- ALL PIPES TO BE 150 DIA UPVC LAID AT 1.0% MIN GRADE. UPVC PIPES TO BE SOLVENT WELDED JOINTS U.N.O.
- ALL PITS AND COVERS TO PROPRIETARY PRECAST ITEMS. COVER LEVELS TO MATCH SURFACE. ALL PITS IN ROADWAYS TO BE TO CURRENT RTA REQUIREMENTS.
- ALL GRATED DRAINS TO HAVE BASE GRADED 1.0% MIN WITH HEEL GUARD TYPE GRATES.
- IT IS THE BUILDERS RESPONSIBILITY TO LAY ALL PIPES IN ACCORDANCE WITH ALL RELEVANT AUTHORITY REQUIREMENTS (EG. COUNCIL, EPA, SYDNEY WATER).
- FIT STEP IRONS TO PITS DEEPER THAN 1000 EXCLUDING CPS PITS



TYPICAL CONCRETE STORMWATER DRAINAGE PIT
SCALE 1:25



STORMWATER PIPE BEDDING DETAIL UNDER PAVEMENT
SCALE 1:25



STORMWATER PIPE BEDDING DETAIL UNDER GROUND
SCALE 1:25

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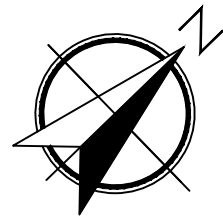
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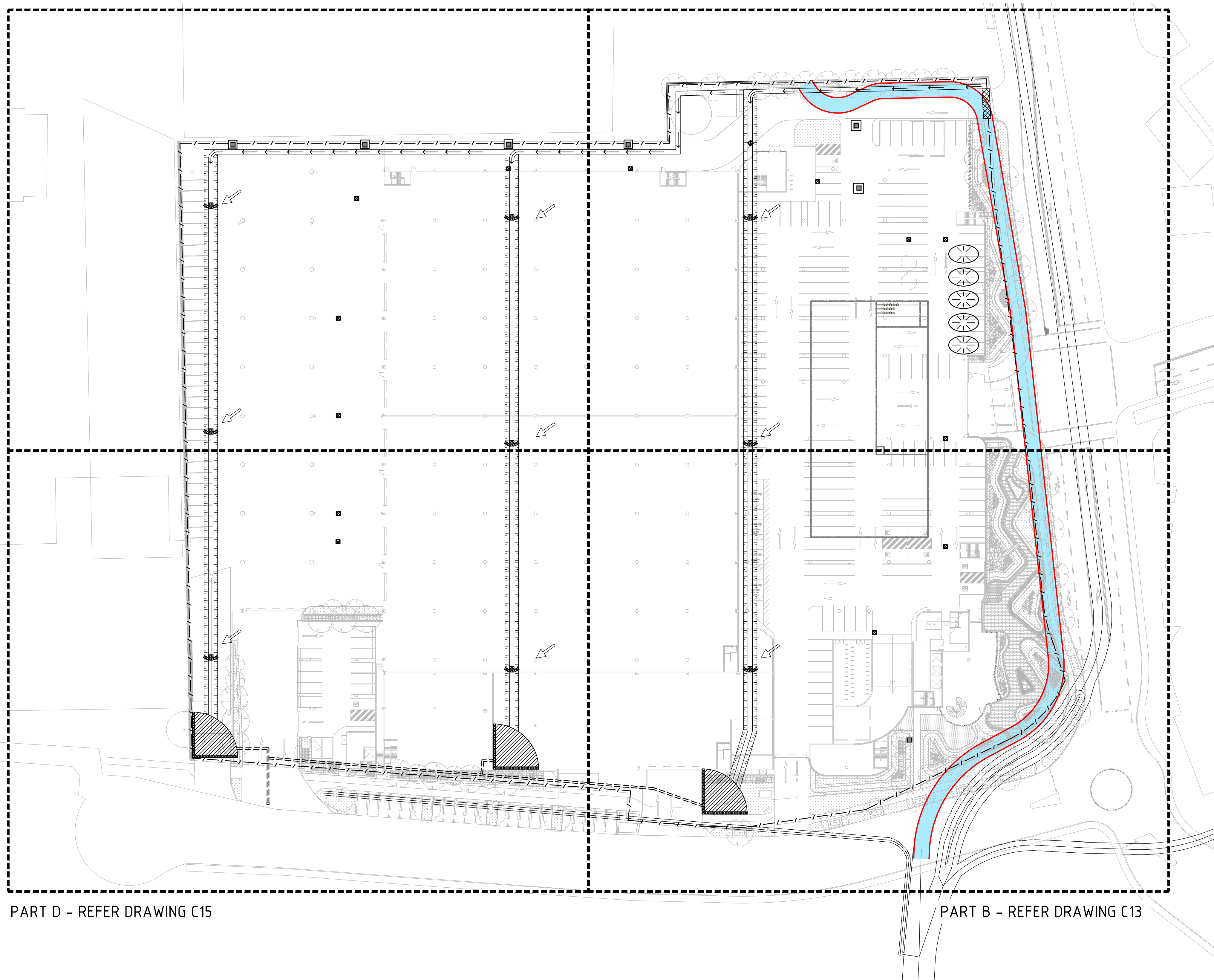
STORMWATER SCHEDULE
AND DETAILS

DATE:	AUGUST 2020	DRG.No.
SCALE:	1:25 @A1	C09
Project No.	190372	REV-C



PART C - REFER DRAWING C14

PART A - REFER DRAWING C12



LEGEND:

SEDIMENT FENCE

SEDIMENT TRAP

GRAVEL BAG

CONSTRUCTION ENTRY/EXIT

HAY BALE FENCE/WALL
(TYP. 2 BALES WIDE)

HAY BALE SILT
RETENTION DAM

STOCK PILE LOCATION

CATCH DRAIN

TEMPORARY PUMP OUT
LINE

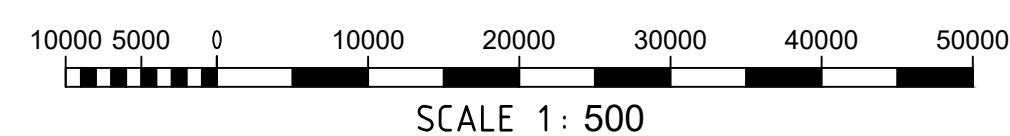
OVERLAND FLOW PATH

PROPOSED HAY BALE
FILTER

EARTH BANK

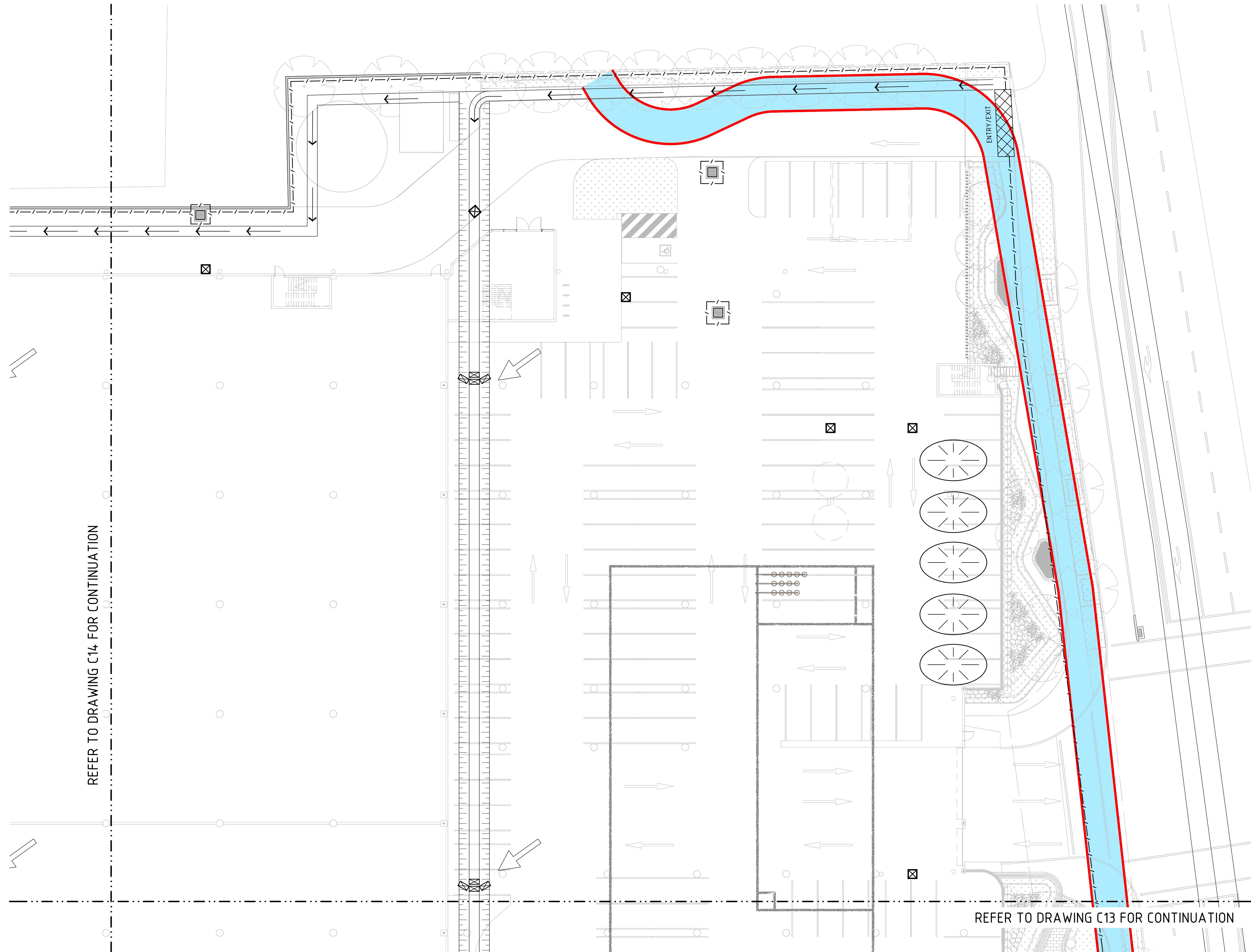
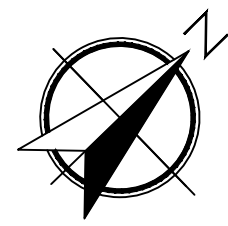
EROSION AND SEDIMENTATION
CONTROL NOTES

1. BUILDER SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE BOUNDARIES. TIE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG.HUMES PROPEX SILT STOP) STANDING 300 ABOVE GROUND AND EXTENDING 150 BELOW GROUND.
2. EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.
3. NO PARKING OR STOCKPILING OF MATERIALS IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
4. GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
5. ROOF DRAINAGE, IF APPLICABLE, IS TO BE CONNECTED TO THE STORMWATER SYSTEM AS SOON AS PRACTICAL.
6. BUILDER SHALL CHECK ALL EROSION AND SEDIMENT CONTROL MEASURES EVERYDAY THERE IS ACTIVITY ON SITE AND AFTER EVERY STORM EVENT.
7. EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED BEFORE COMMENCEMENT OF WORKS. DISTURBED SURFACES ARE TO BE TREATED AS DETAILED WITH LINING INSTALLED AS SPECIFIED IN DETAIL



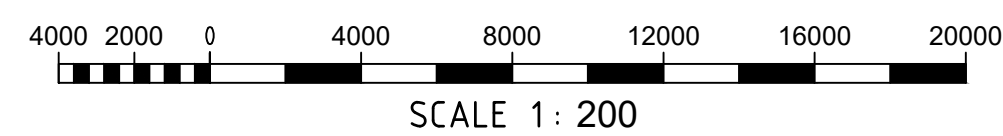
APPROVAL
ISSUE

REV No.	COMMENTS	DATE	INIT.	PROJECT: WOOLWORTHS MARRICKVILLE 74 EDINBURGH ROAD, MARRICKVILLE, NSW 2204	Richmond+Ross CONSULTING ENGINEERS ABN 34 001 485 436 38 WILLOUGHBY ROAD, CROWS NEST, NSW 2065 TEL : (02) 9490 9600 FAX : (02) 9438 1224	OVERALL EROSION AND SEDIMENT CONTROL PLAN	
A	APPROVAL ISSUE	21.08.20	MA			DATE: AUGUST 2020	DRG.No.
B	APPROVAL ISSUE	09.02.21	MA			SCALE: 1:500 @A1	C11
						Project No. 190372	REV-B
				CLIENT: WOOLWORTHS			



LEGEND:

- SEDIMENT FENCE
- SEDIMENT TRAP
- GRAVEL BAG
- CONSTRUCTION ENTRY/EXIT
- HAY BALE FENCE/WALL (TYP. 2 BALES WIDE)
- HAY BALE SILT RETENTION DAM
- STOCK PILE LOCATION
- CATCH DRAIN
- TEMPORARY PUMP OUT LINE
- OVERLAND FLOW PATH
- PROPOSED HAY BALE FILTER
- EARTH BANK



APPROVAL
ISSUE

REV No.	COMMENTS	DATE	INIT.
A	APPROVAL ISSUE	21.08.20	MA
B	APPROVAL ISSUE	09.02.21	MA

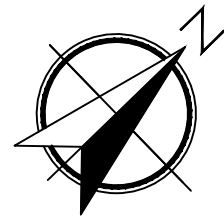
PROJECT:
WOOLWORTHS MARRICKVILLE
74 EDINBURGH ROAD,
MARRICKVILLE, NSW 2204

CLIENT:
WOOLWORTHS

Richmond+Ross PTY LIMITED
CONSULTING ENGINEERS
ABN 34 001 485 436

38 WILLOUGHBY ROAD,
CROWS NEST, NSW 2065
TEL : (02) 9490 9600
FAX : (02) 9438 1224

EROSION AND SEDIMENT CONTROL PLAN - PART A		
DATE:	AUGUST 2020	DRG.No.
SCALE:	1:200 @A1	C12
Project No.	190372	REV-B



REFER TO DRAWING C12 FOR CONTINUATION

REFER TO DRAWING C15 FOR CONTINUATION

LEGEND:

SEDIMENT FENCE

SEDIMENT TRAP

GRAVEL BAG

CONSTRUCTION ENTRY/EXIT

HAY BALE FENCE/WALL
(TYP. 2 BALES WIDE)

HAY BALE SILT
RETENTION DAM

STOCK PILE LOCATION

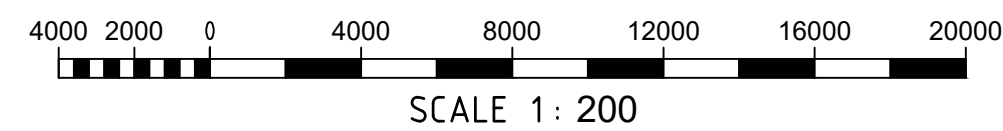
CATCH DRAIN

TEMPORARY PUMP OUT
LINE

OVERLAND FLOW PATH

PROPOSED HAY BALE
FILTER

EARTH BANK



APPROVAL
ISSUE

REV No.	COMMENTS	DATE	INIT.
A	APPROVAL ISSUE	21.08.20	MA
B	APPROVAL ISSUE	09.02.21	MA

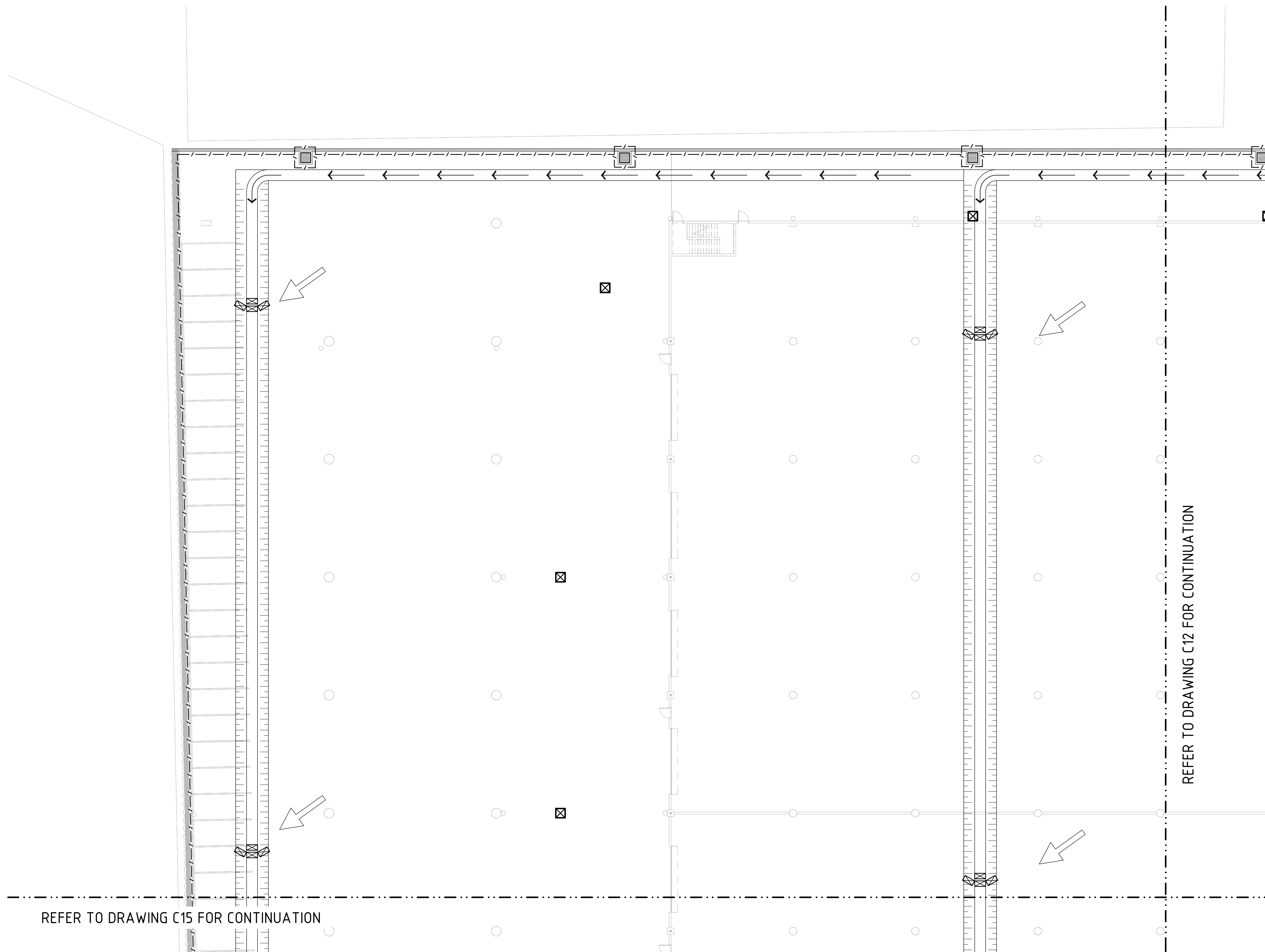
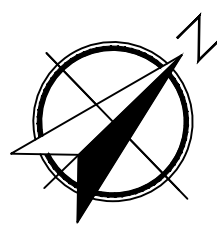
PROJECT:
WOOLWORTHS MARRICKVILLE
74 EDINBURGH ROAD,
MARRICKVILLE, NSW 2204

CLIENT:
WOOLWORTHS

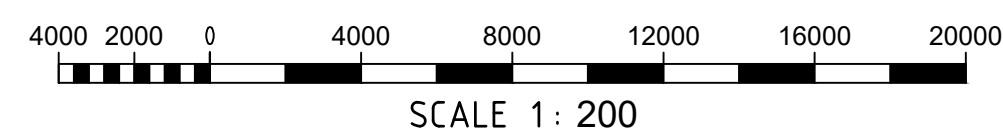
Richmond+Ross PTY LIMITED
CONSULTING ENGINEERS
ABN 34 001 485 436

38 WILLOUGHBY ROAD,
CROWS NEST, NSW 2065
TEL : (02) 9490 9600
FAX : (02) 9438 1224

EROSION AND SEDIMENT CONTROL PLAN - PART B	
DATE: AUGUST 2020	DRG.No.
SCALE: 1:200 @A1	C13
Project No. 190372	REV-B



LEGEND:	
	SEDIMENT FENCE
	SEDIMENT TRAP
	GRAVEL BAG
	CONSTRUCTION ENTRY/EXIT
	HAY BALE FENCE/WALL (TYP. 2 BALES WIDE)
	HAY BALE SILT RETENTION DAM
	STOCK PILE LOCATION
	CATCH DRAIN
	TEMPORARY PUMP OUT LINE
	OVERLAND FLOW PATH
	PROPOSED HAY BALE FILTER
	EARTH BANK



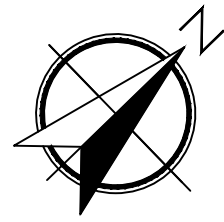
APPROVAL
ISSUE

REV No.	COMMENTS	DATE	INIT.
A	APPROVAL ISSUE	21.08.20	MA
B	APPROVAL ISSUE	09.02.21	MA

PROJECT: WOOLWORTHS MARRICKVILLE 74 EDINBURGH ROAD, MARRICKVILLE, NSW 2204
CLIENT: WOOLWORTHS

Richmond+Ross PTY LIMITED CONSULTING ENGINEERS ABN 34 001 485 436
38 WILLOUGHBY ROAD, CROWS NEST, NSW 2065 TEL : (02) 9490 9600 FAX : (02) 9438 1224

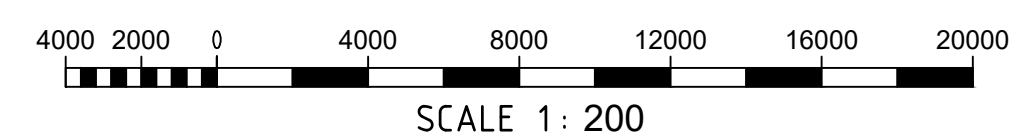
EROSION AND SEDIMENT CONTROL PLAN - PART C			
DATE:	AUGUST 2020	DRG.No.	C14
SCALE:	1:200 @A1	REV-B	
Project No.	190372		



REFER TO DRAWING C14 FOR CONTINUATION

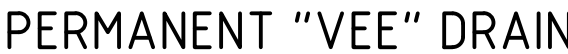
REFER TO DRAWING C13 FOR CONTINUATION

LEGEND:	
	SEDIMENT FENCE
	SEDIMENT TRAP
	GRAVEL BAG
	CONSTRUCTION ENTRY/EXIT
	HAY BALE FENCE/WALL (TYP. 2 BALES WIDE)
	HAY BALE SILT RETENTION DAM
	STOCK PILE LOCATION
	CATCH DRAIN
	TEMPORARY PUMP OUT LINE
	OVERLAND FLOW PATH
	PROPOSED HAY BALE FILTER
	EARTH BANK

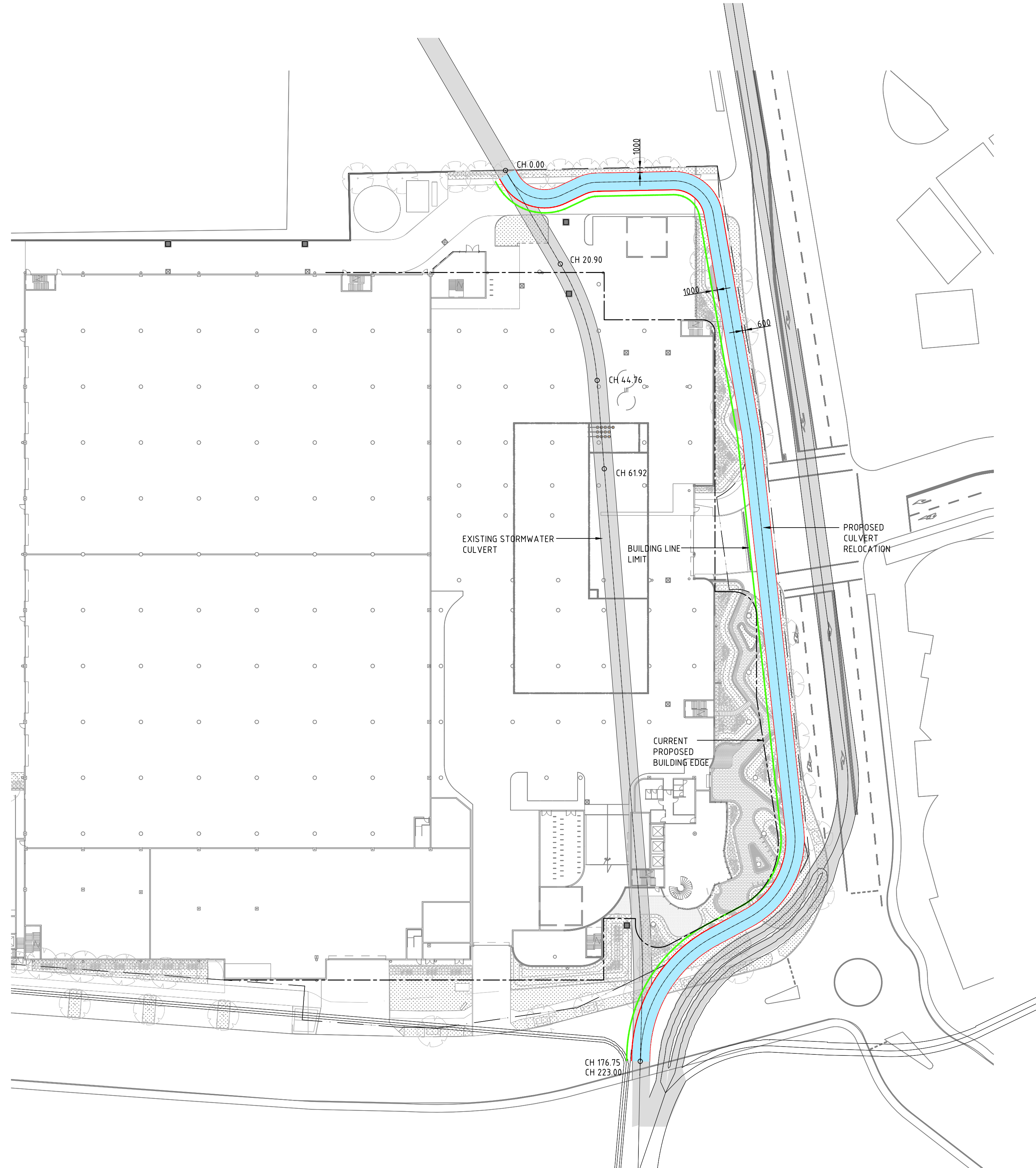
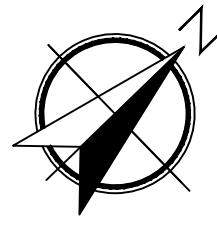


APPROVAL
ISSUE

REV No.	COMMENTS	DATE	INIT.	PROJECT: WOOLWORTHS MARRICKVILLE 74 EDINBURGH ROAD, MARRICKVILLE, NSW 2204	Richmond+Ross CONSULTING ENGINEERS ABN 34 001 485 436 38 WILLOUGHBY ROAD , CROWS NEST, NSW 2065 TEL : (02) 9490 9600 FAX : (02) 9438 1224	EROSION AND SEDIMENT CONTROL PLAN - PART D		
A	APPROVAL ISSUE	21.08.20	MA			DATE:	AUGUST 2020	DRG.No.
B	APPROVAL ISSUE	09.02.21	MA			SCALE:	1:200 @A1	C15
						Project No.	190372	REV-B
				CLIENT: WOOLWORTHS				



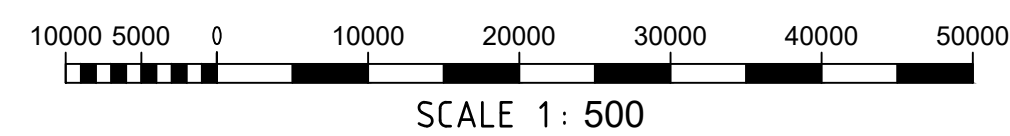
PRELIMINARY
ISSUE



LEGEND

- EXISTING STORMWATER CULVERT
- PROPOSED STORMWATER CULVERT
- BUILDING LINE LIMIT (1m FROM OUTSIDE FACE OF CULVERT)
- CURRENT PROPOSED BUILDING LIMIT

NOTE:
DETAILS OF EXISTING CULVERT BASED ON PUBLICLY PUBLISHED INFORMATION.



APPROVAL
ISSUE

REV No.	COMMENTS	DATE	INIT.
A	APPROVAL ISSUE	09.02.21	MA

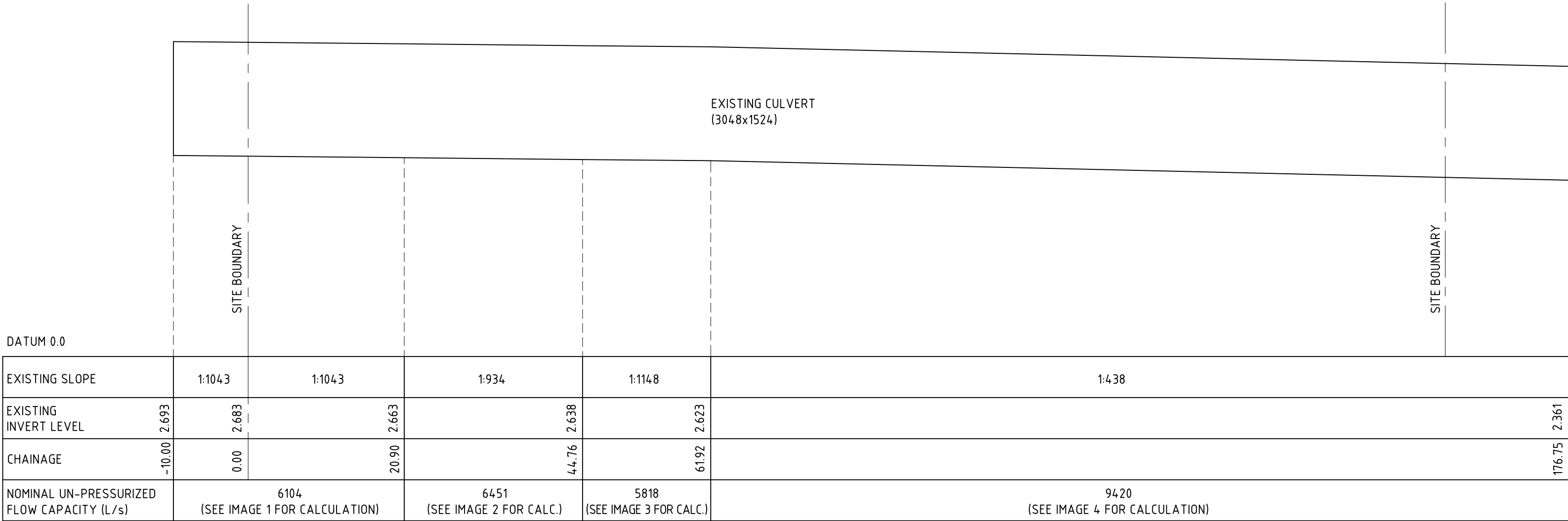
PROJECT:
WOOLWORTHS MARRICKVILLE
74 EDINBURGH ROAD,
MARRICKVILLE, NSW 2204

CLIENT:
WOOLWORTHS

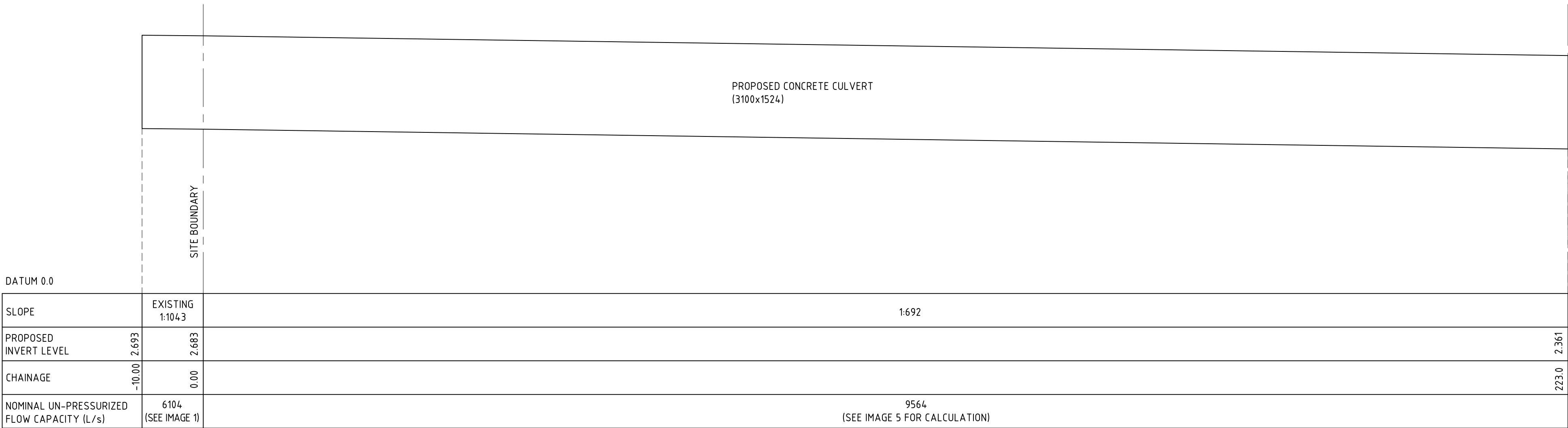
Richmond+Ross PTY LIMITED
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38 WILLOUGHBY ROAD,
CROWS NEST, NSW 2065
TEL : (02) 9490 9600
FAX : (02) 9438 1224

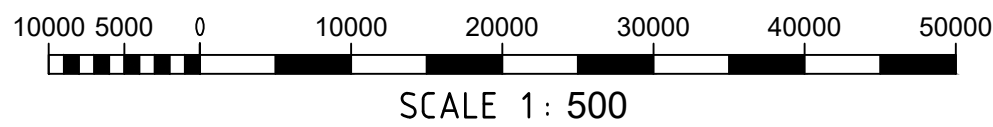
PROPOSED CULVERT RELOCATION	
DATE:	AUGUST 2020
SCALE:	1:500 @A1
Project No.	190372
DRG.No.	C20
REV-A	



01 EXISTING CULVERT LONG SECTION
SCALE 1:500H, 1:50V



02 PROPOSED CULVERT LONG SECTION
SCALE 1:500H, 1:50V



APPROVAL
ISSUE

REV No.	COMMENTS	DATE	INIT.
A	APPROVAL ISSUE	09.02.21	MA

PROJECT:
WOOLWORTHS MARRICKVILLE
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MARRICKVILLE, NSW 2204

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CROWS NEST, NSW 2065
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FAX : (02) 9438 1224

CULVERT LONG SECTION

DATE:	AUGUST 2020	DRG.No.
SCALE:	1:500 @A1	C21
Project No.	190372	REV-A

NOTE:
DETAILS OF EXISTING CULVERT
BASED ON PUBLICLY
PUBLISHED INFORMATION.

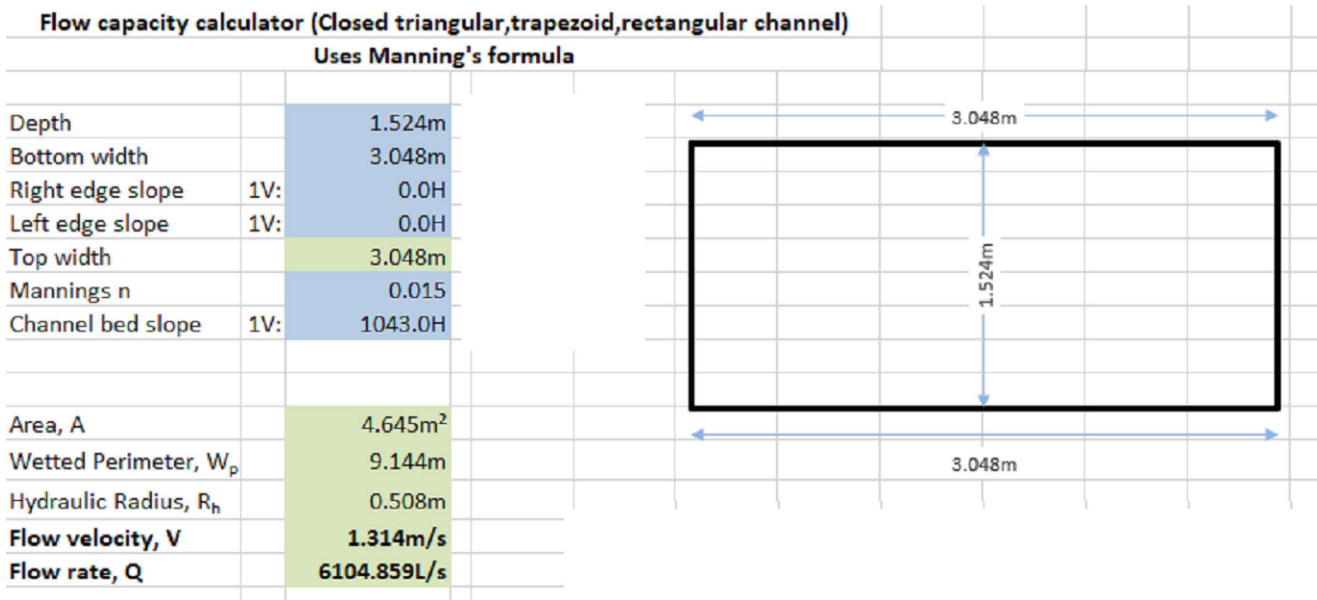


IMAGE 1

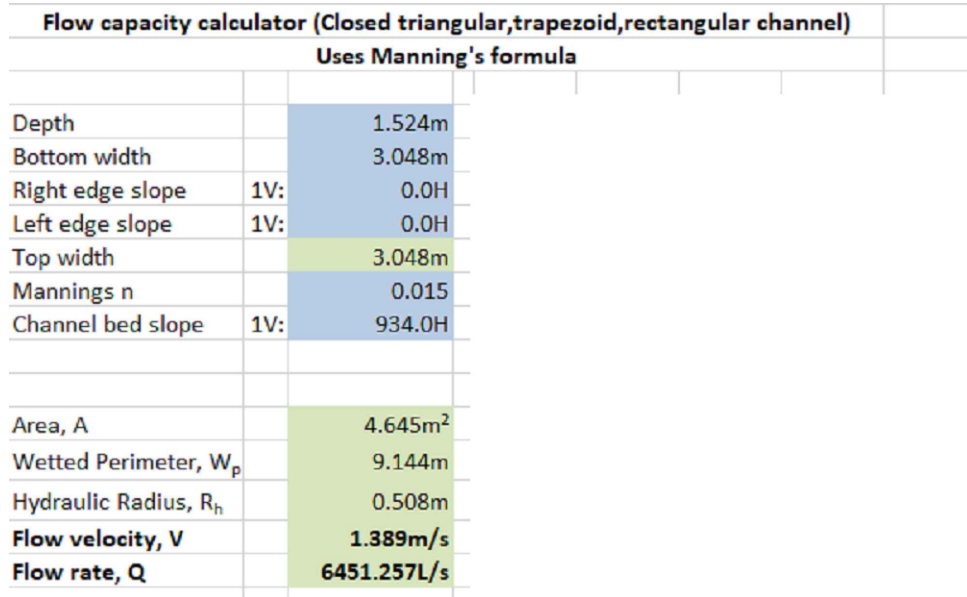


IMAGE 2

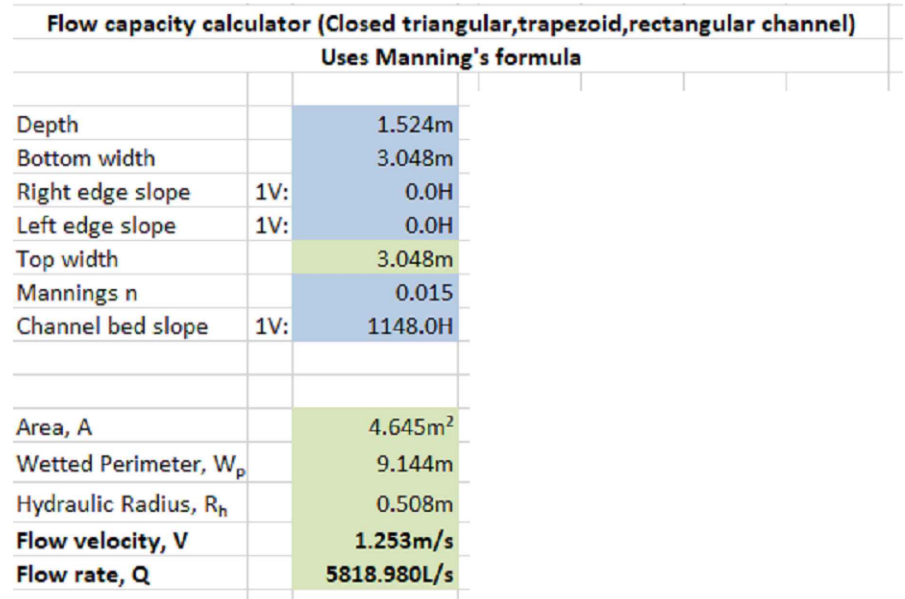


IMAGE 3

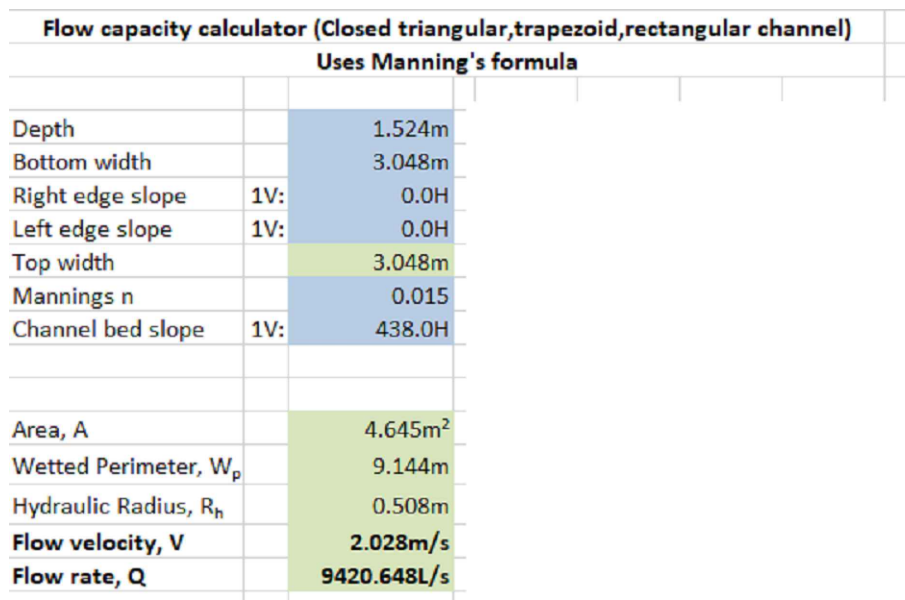


IMAGE 4

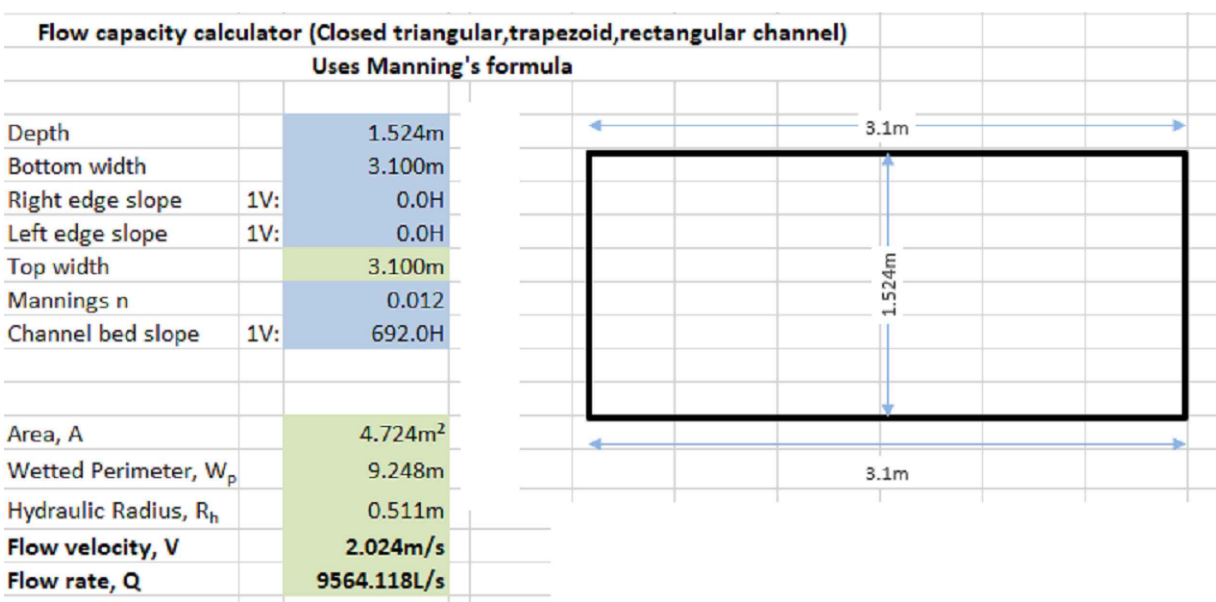


IMAGE 5