

LEGEND: STAGING PLAN

- STAGE 1
- STAGE 2

NOTES

- ALL NEW CROSSOVERS TO BE IN ACCORDANCE WITH COUNCIL REQUIREMENTS AND AUSTRALIAN STANDARDS AS2890.2.
- ALL PARKING SPACES & WHEELSTOPS TO COMPLY WITH AUSTRALIAN STANDARDS AS2890.1.
- ALL DISABLED PARKING SPACES IN ACCORDANCE WITH AUSTRALIAN STANDARD AS2890 (5.4m x 2.4m).
- SITE STORMWATER DRAINAGE IN ACCORDANCE TO LOCAL AUTHORITY & COUNCIL REQUIREMENTS.
- OUTDOOR LIGHTING WILL BE PROVIDED TO ILLUMINATE THE OUTDOOR AREAS OF THE SITE OUTSIDE OF DAYLIGHT HOURS IN ACCORDANCE WITH AS-4282.
- THE OUTDOOR LIGHTING WILL BE DESIGNED TO AVOID SAFETY/CLARE ISSUES FOR THE USERS OF THE ROAD RESERVE IN ACCORDANCE WITH AS-4282.

DEVELOPMENT ANALYSIS

BUILDING (G.L.A)	
WAREHOUSE	20,050 m²
WAREHOUSE OFFICE	198 m²
TOTAL	20,248 m²

EXTERNAL AREAS (APPROX)	
CANOPIES	1,985 m²
HARDSTAND	14,373 m²
TEMPORARY HARDSTAND	1,837 m²
LIGHT DUTY	1,623 m²
CONCRETE PAVING	435 m²

CAR PARKING	
CAR SPACES	67 No.
WAREHOUSE PARKING	1 PER 300m² GLA
PARKING REQUIRED	67 No.
TRUCK SPACES	8 No.

SITE COVERAGE	
TOTAL SITE AREA	58,790 m²
STAGE 1 BUILDING FOOTPRINT	20,248 m²
SITE COVERAGE	34.4 %

DISCLAIMER: ALL AREAS SHOWN ARE TO THE METHODOLOGY OUTLINES IN THE PROPERTY COUNCIL OF AUSTRALIA'S METHOD OF CALCULATION AND WILL DIFFER FROM NCC REQUIREMENTS.

FOR STAGE 2 DRAWINGS AND DETAILS REFER TO APPROVED DEVELOPMENT CONSENT DRAWINGS ref. DA17/0161

NO:	DATE:	REVISION:	BY:	CHK:
A	07.04.2022	RESPONSE TO COUNCIL	IK	JC

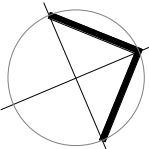
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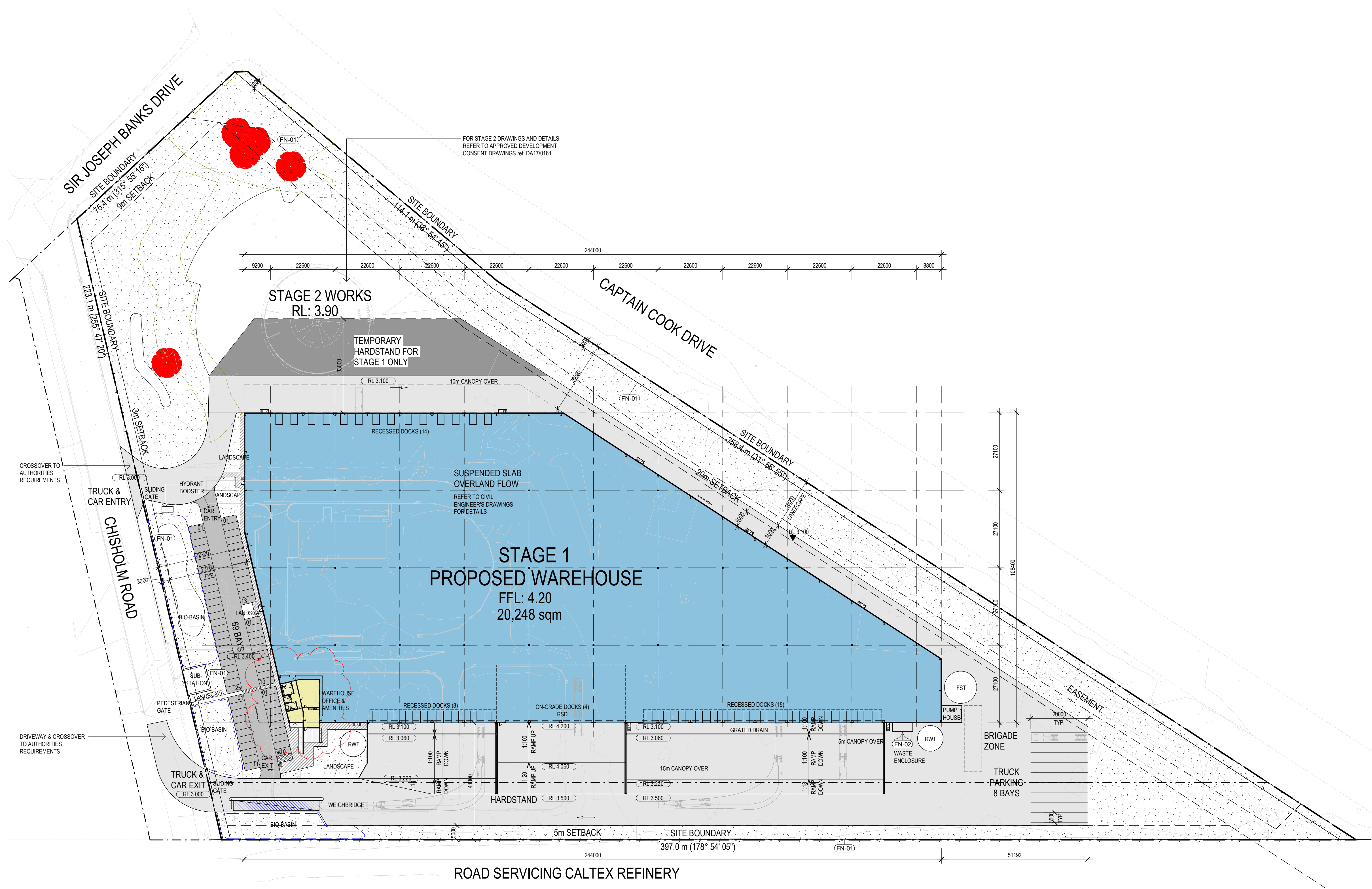
PROJECT:
PROPOSED INDUSTRIAL DEVELOPMENT
186-206 CAPTAIN COOK DRIVE, KURNELL

TITLE:
STAGING PLAN



DATE: JUNE, 2021
DRAWN BY: IO
SCALE: As indicated
SCALE:

JOB NO:	21221
DRAWING NO:	TP11
REVISION:	A



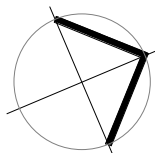
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A	02.09.2021	ISSUED FOR APPROVAL	JO	JC
B	07.04.2022	RESPONSE TO COUNCIL	IK	JC

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PROJECT:
PROPOSED INDUSTRIAL DEVELOPMENT
186-206 CAPTAIN COOK DRIVE, KURNELL

TITLE:
SITE PLAN



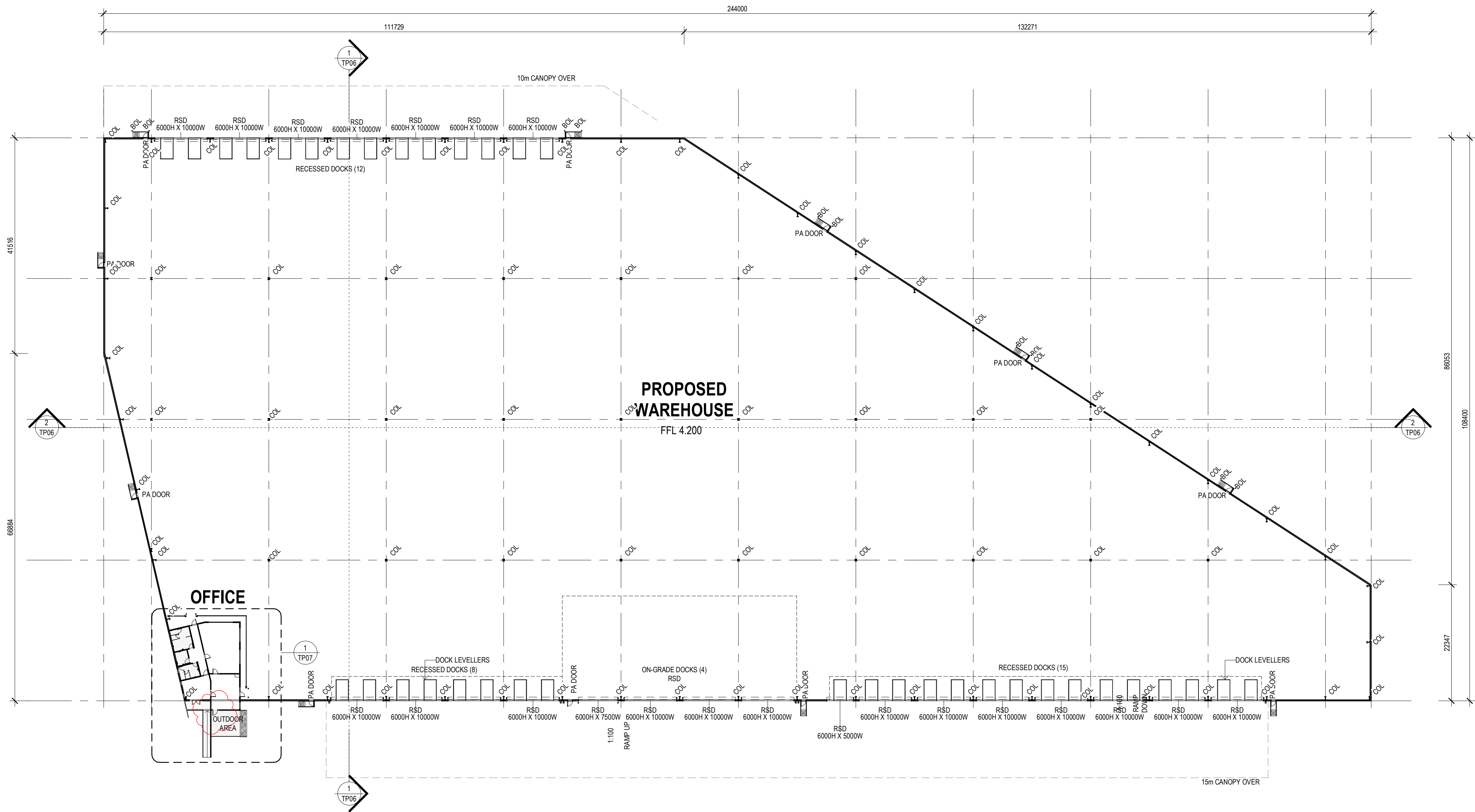
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DATE: JUNE, 2021
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SCALE: 1:750 @A1
SCALE:

JOB NO:	21221
DRAWING NO:	TP02
REVISION:	B





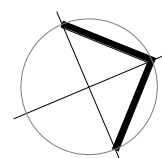
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PROJECT:
**PROPOSED INDUSTRIAL DEVELOPMENT
186-206 CAPTAIN COOK DRIVE, KURNELL**

TITLE:
WAREHOUSE PLAN



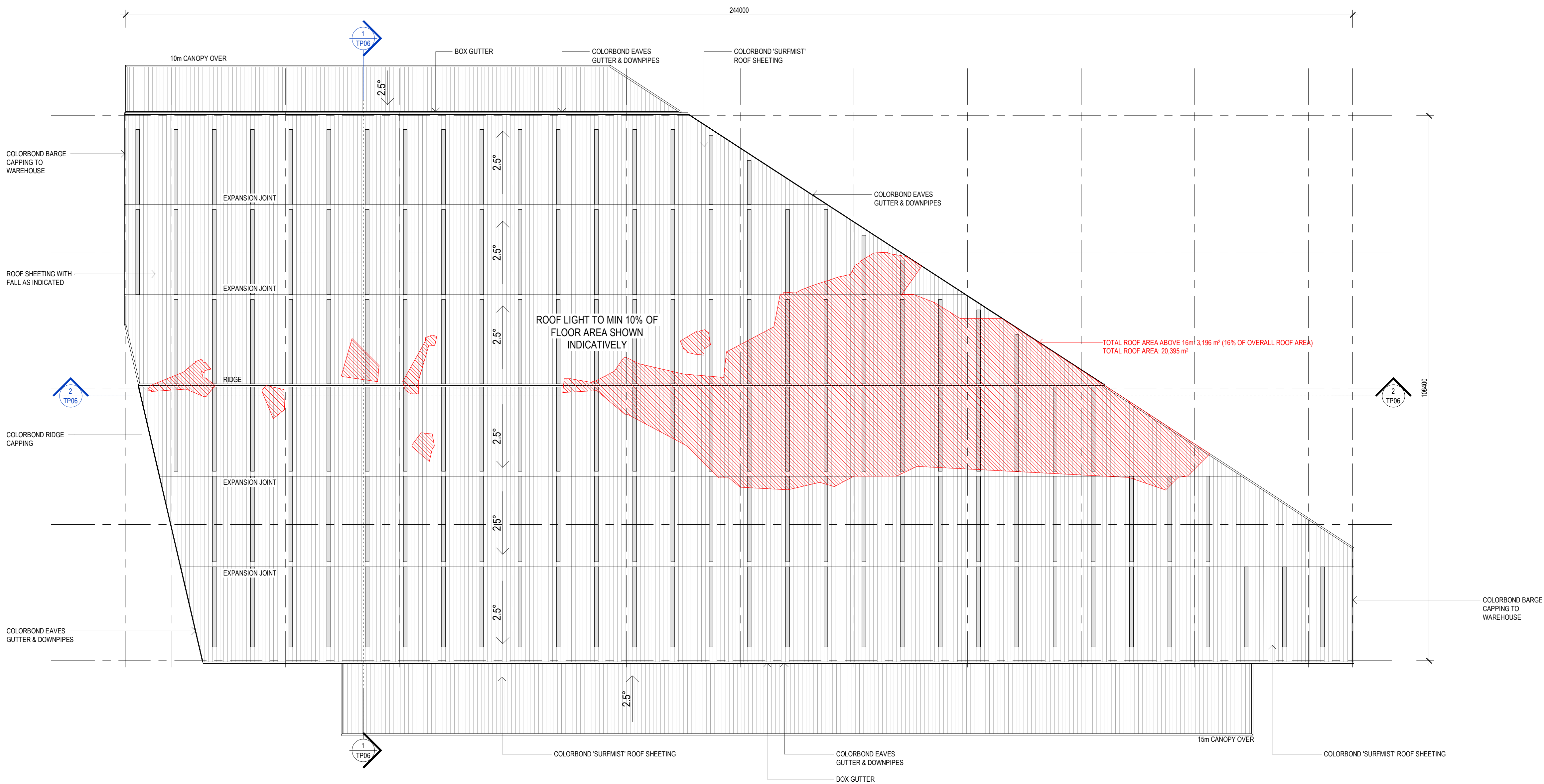
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DATE: JUNE, 2021
DRAWN BY: IO
SCALE: 1 : 500@A1
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JOB NO:	21221
DRAWING NO:	TP03
REVISION:	B

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PROJECT:
**PROPOSED INDUSTRIAL DEVELOPMENT
186-206 CAPTAIN COOK DRIVE, KURNELL**

TITLE:
ROOF PLAN


CLIENT:


DATE: JUNE, 2021
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SCALE: 1 : 500@A1

JOB NO:
21221

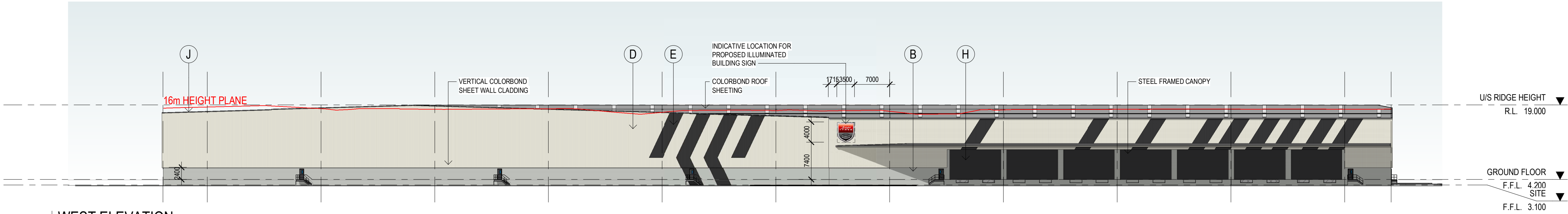
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REVISION:
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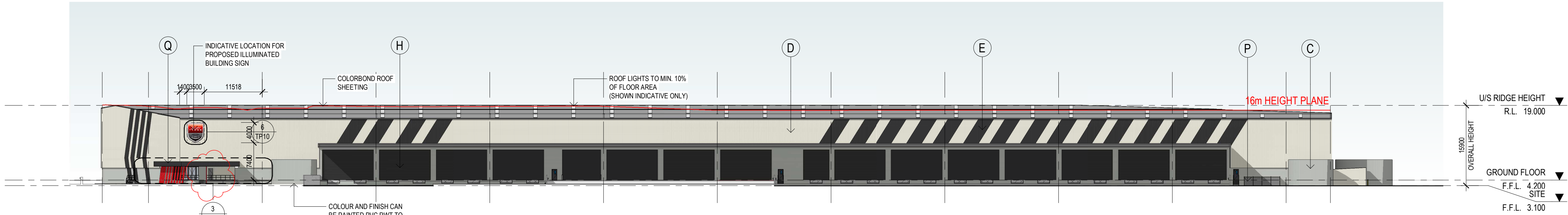


EXTERNAL FINISHES

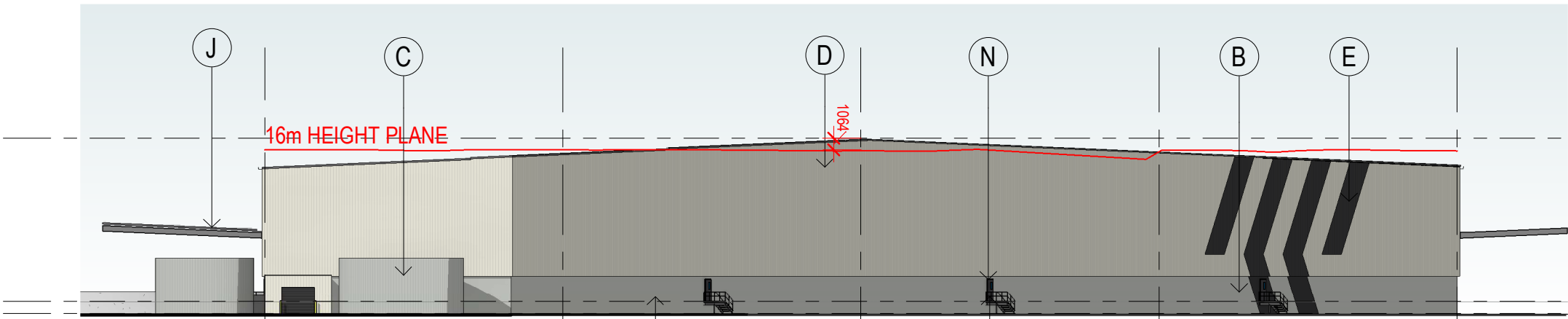
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C	PRECAST CONCRETE PANEL TEXTURE PAINT	COLORBOND MONUMENT
D	COLORBOND WALL CLADDING	COLORBOND SURFMIST
E	COLORBOND WALL CLADDING	COLORBOND MONUMENT
F	PRECAST CONCRETE PANEL TEXTURE PAINT	PANTONE 032C
G	ROOF CLADDING	COLORBOND SURFMIST
H	ROLLER SHUTTER DOOR CLADDING	COLORBOND MONUMENT
I	DOWNPipes/ GUTTERS	COLORBOND SURFMIST
J	BOLLARDS	SAFETY YELLOW
K	CANOPY CAPPING/FLASHING	COLORBOND MONUMENT
M	WINDOW FRAME	POWDERCOAT: MONUMENT
N	PA DOORS, PAINT	MONUMENT
O	SPRINKLER TANK	COLORBOND SHALE GREY
P	FENCE	BLACK VINYL COATED CYCLONE WIRE FENCE
Q	AWNING/CANOPIES	COLORBOND MONUMENT



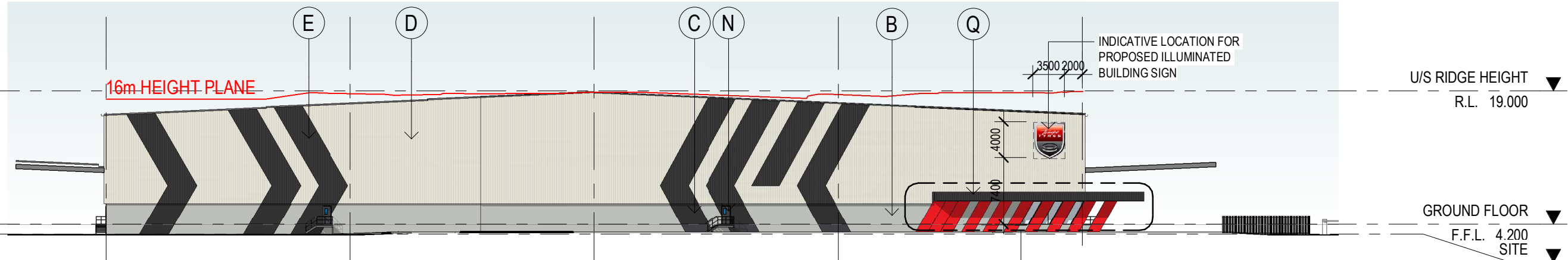
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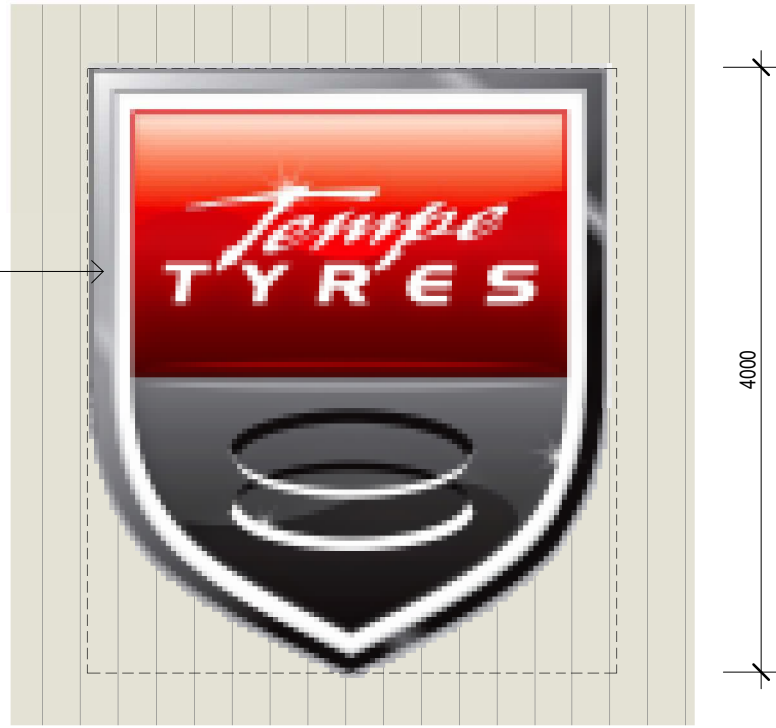
EAST ELEVATION
SCALE: 1 : 500



NORTH ELEVATION
SCALE: 1 : 500



SOUTH ELEVATION
SCALE: 1 : 500



ILLUMINATED BUILDING SIGN
SCALE: 1 : 50

PROJECT:
PROPOSED INDUSTRIAL DEVELOPMENT
186-206 CAPTAIN COOK DRIVE, KURNELL

TITLE:
ELEVATIONS

CLIENT:



DATE: JUNE, 2021
DRAWN BY: IO
SCALE: 1:500 @A1
SCALE:

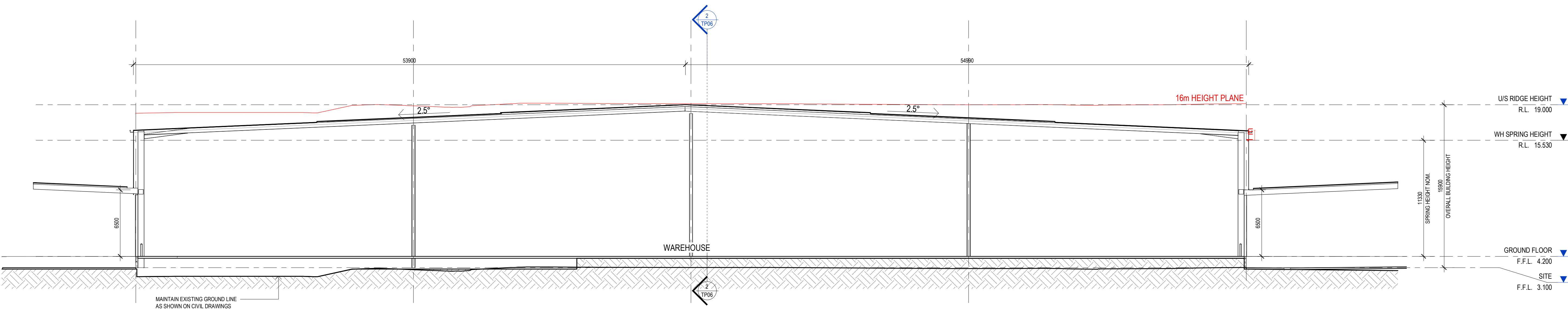
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REVISION:	B

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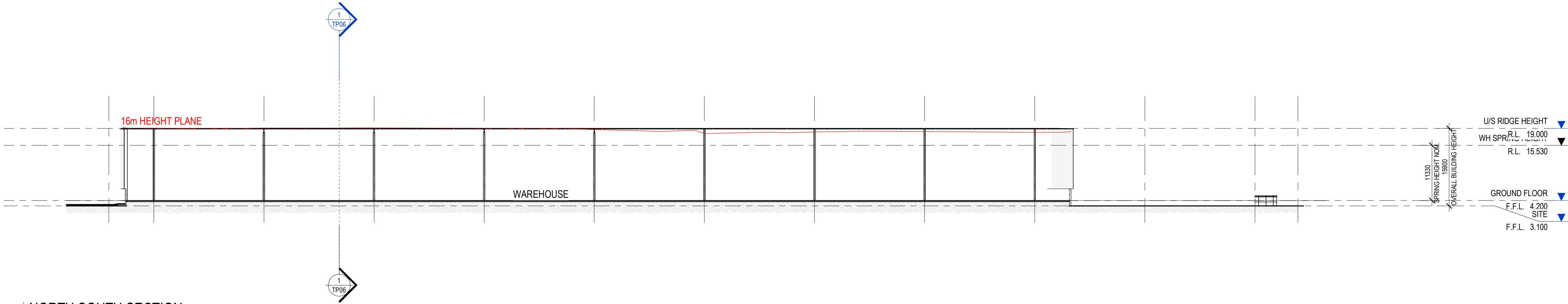
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EAST WEST SECTION
SCALE: 1 : 200



NORTH SOUTH SECTION
SCALE: 1 : 500

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PROJECT:
PROPOSED INDUSTRIAL DEVELOPMENT
186-206 CAPTAIN COOK DRIVE, KURNELL

TITLE:
SECTIONS

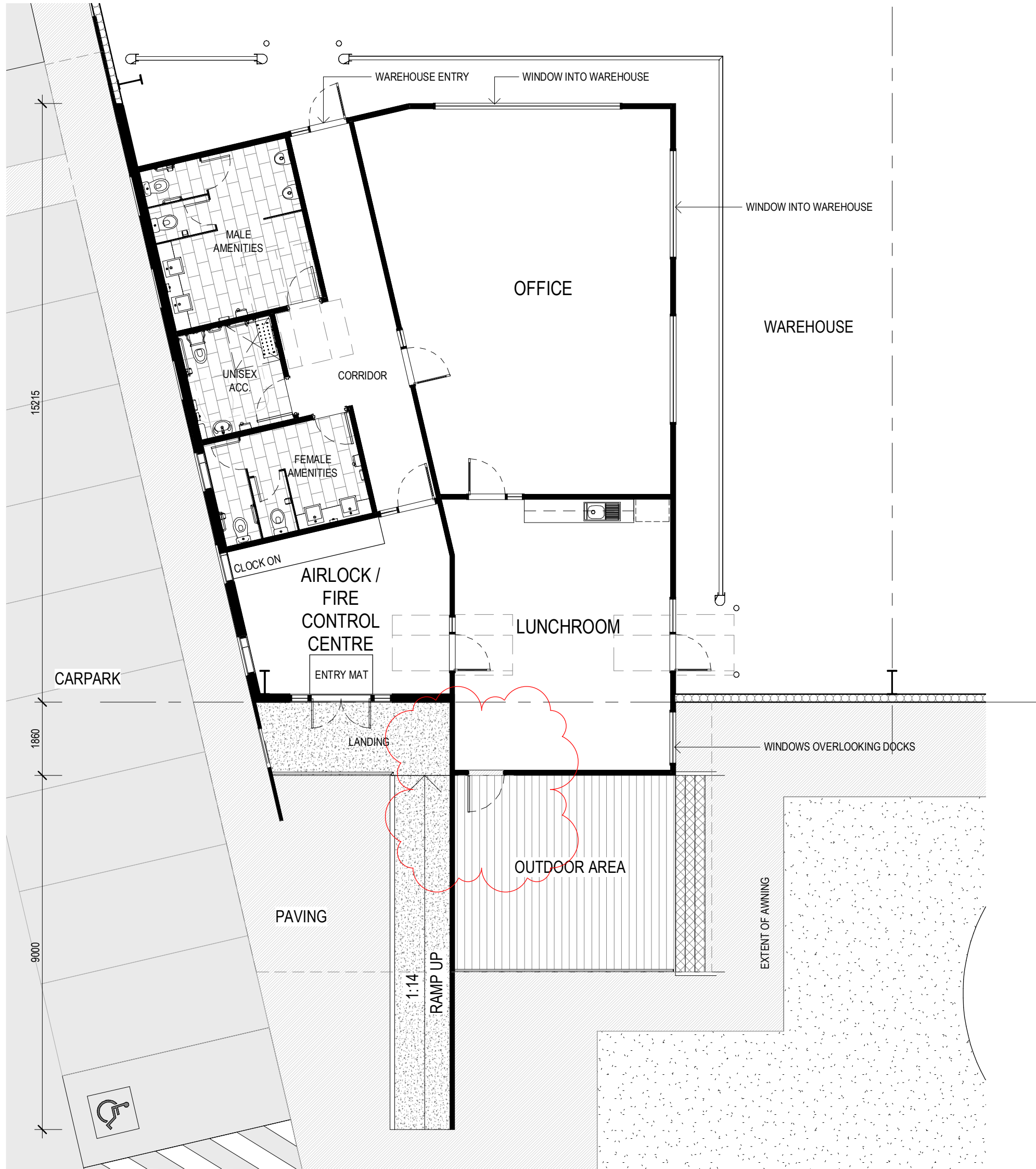
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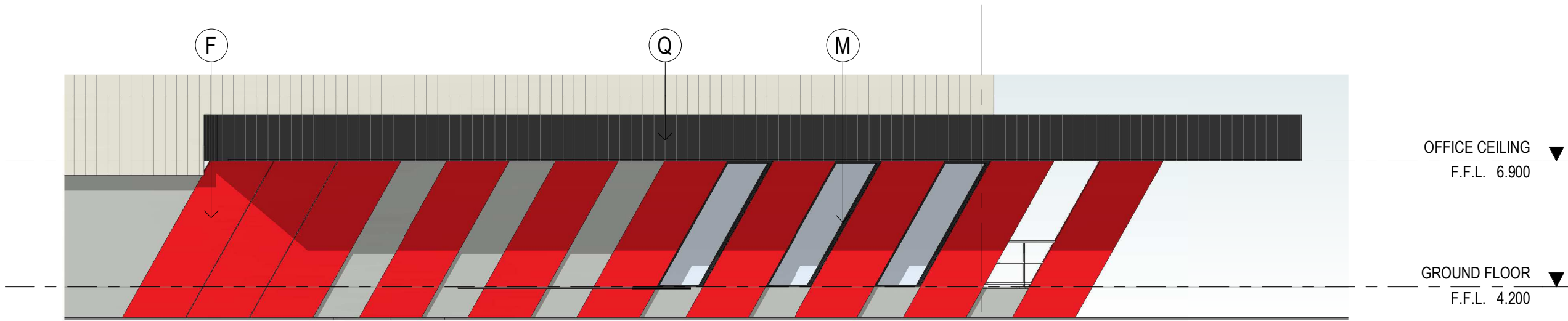
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DRAWN BY: IO
SCALE: @A1
SCALE:

JOB NO:	21221
DRAWING NO:	TP06
REVISION:	A

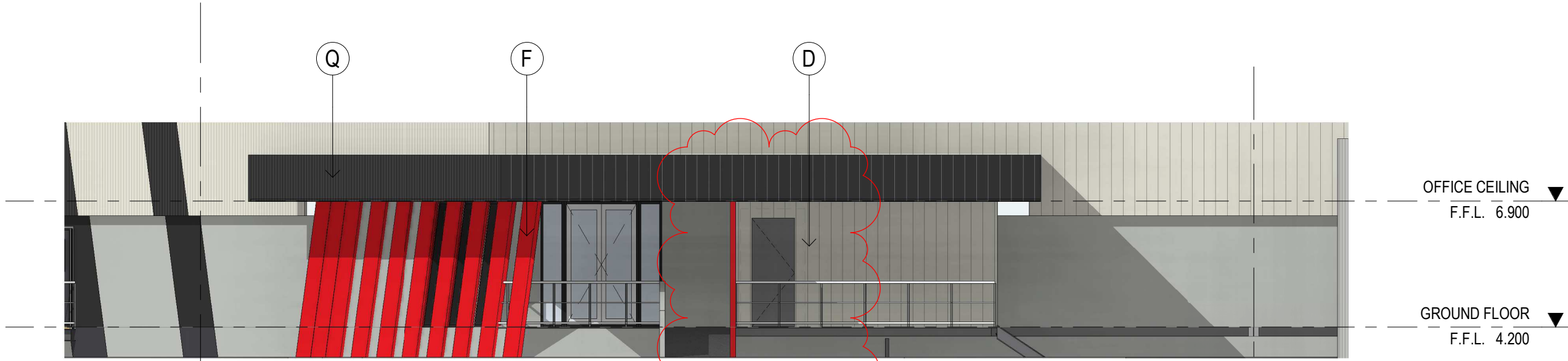




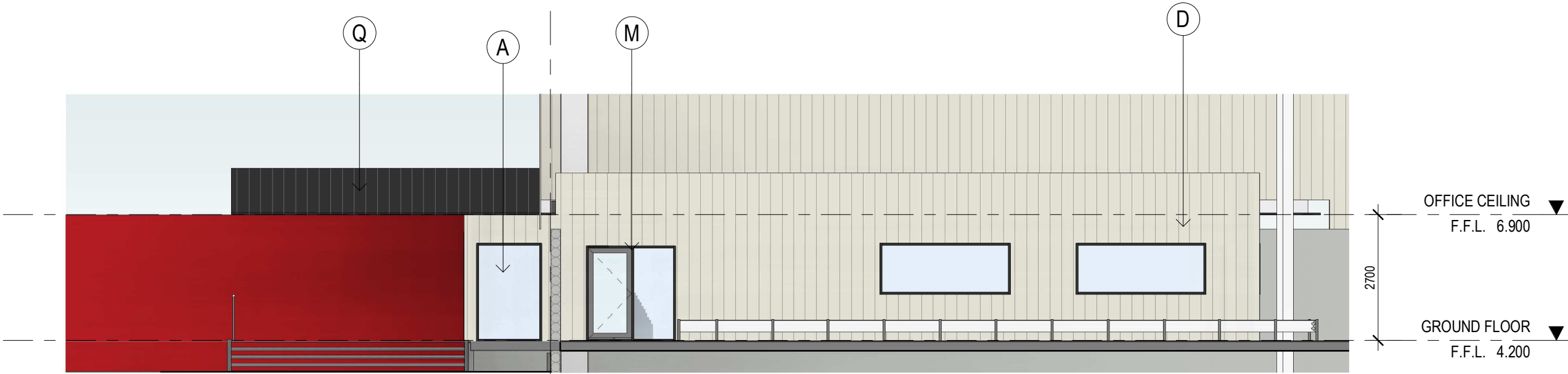
WAREHOUSE OFFICE PLAN
SCALE: 1 : 100



SOUTH ELEVATION - WAREHOUSE OFFICE
SCALE: 1 : 100



EAST ELEVATION - WAREHOUSE OFFICE
SCALE: 1 : 100



NORTH ELEVATION (INTERNAL)
SCALE: 1 : 100



WEST ELEVATION (INTERNAL)
SCALE: 1 : 100

EXTERNAL FINISHES

(A)	ALUMINIUM FRAMED GLAZING	NEUTRAL OR CLEAR
(B)	PRECAST CONCRETE PANEL TEXTURE PAINT	COLORBOND SHALE GREY
(C)	PRECAST CONCRETE PANEL TEXTURE PAINT	COLORBOND MONUMENT
(D)	COLORBOND WALL CLADDING	COLORBOND SURFMIST
(E)	COLORBOND WALL CLADDING	COLORBOND MONUMENT
(F)	PRECAST CONCRETE PANEL TEXTURE PAINT	PANTONE 032C
(G)	ROOF CLADDING	COLORBOND SURFMIST
(H)	ROLLER SHUTTER DOOR CLADDING	COLORBOND MONUMENT
(I)	DOWNPipes/ GUTTERS	COLORBOND SURFMIST
(J)	BOLLARDS	SAFETY YELLOW
(K)	CANOPY CAPPING/FLASHING	COLORBOND MONUMENT
(M)	WINDOW FRAME	POWDERCOAT: MONUMENT
(N)	PA DOORS, PAINT	MONUMENT
(O)	SPRINKLER TANK	COLORBOND SHALE GREY
(P)	FENCE	BLACK VINYL COATED CYCLONE WIRE FENCE
(Q)	AWNING/CANOPIES	COLORBOND MONUMENT

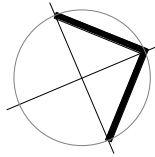
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A	02.09.2021	ISSUED FOR APPROVAL	IO	JC
B	07.04.2022	RESPONSE TO COUNCIL	IK	JC

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PROJECT:
PROPOSED INDUSTRIAL DEVELOPMENT
186-206 CAPTAIN COOK DRIVE, KURNELL

TITLE:
WAREHOUSE OFFICE
PLAN & ELEVATIONS



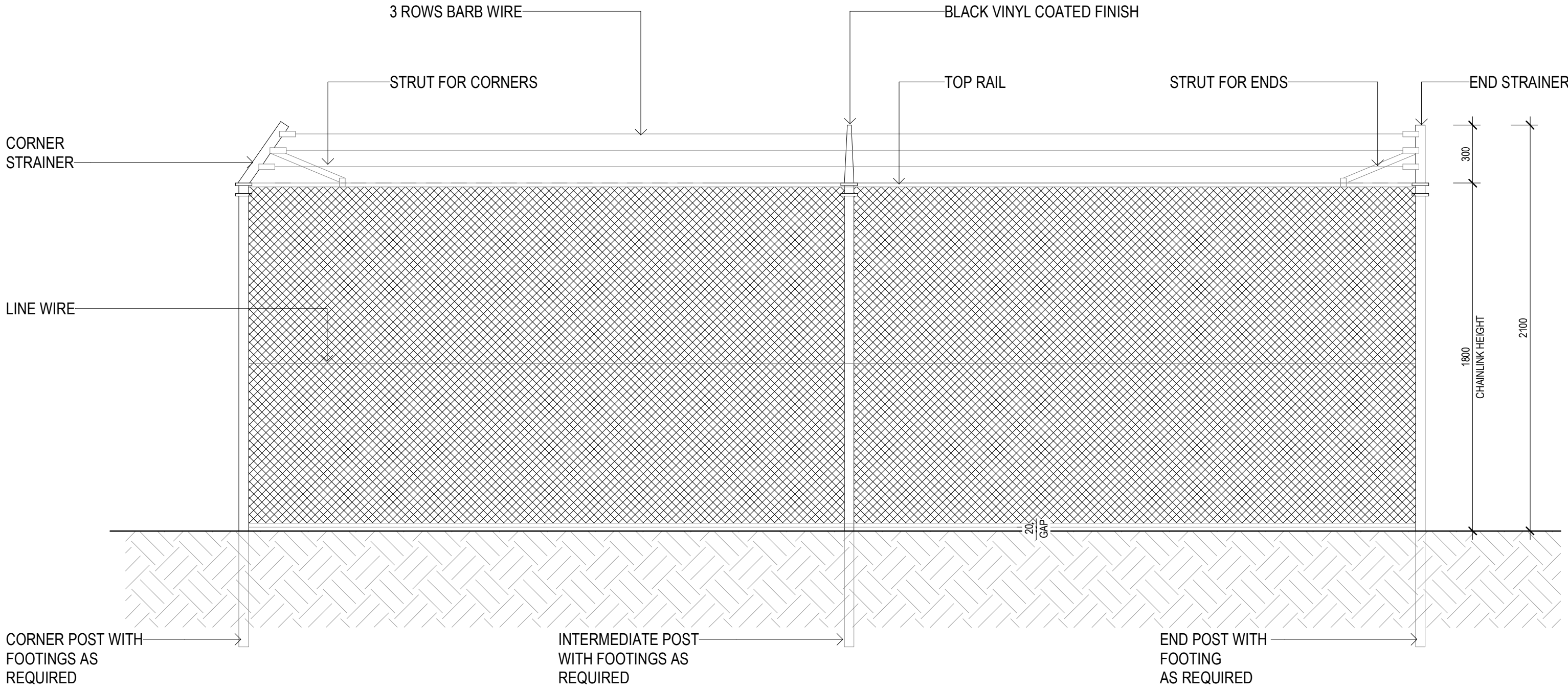
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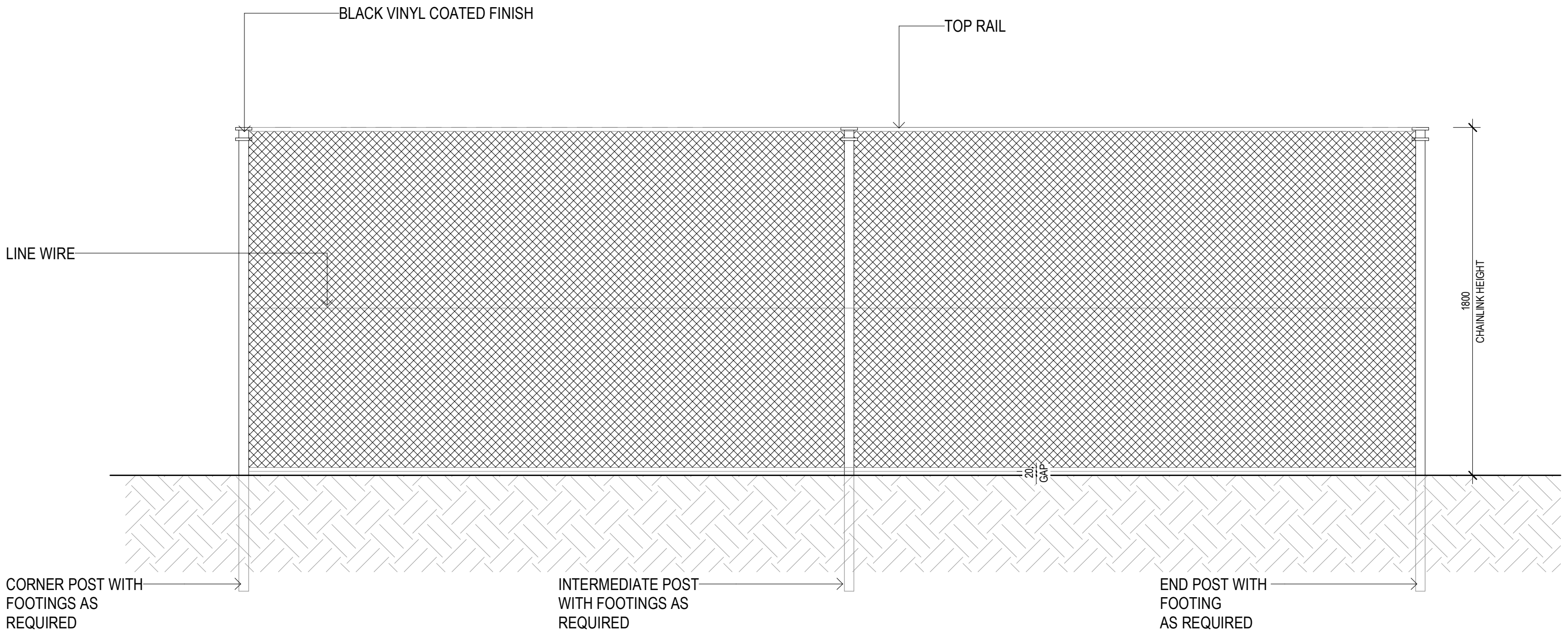
DATE: JUNE, 2021
DRAWN BY: IO
SCALE: 1:100 @A1
SCALE:

JOB NO:	21221
DRAWING NO:	TP07
REVISION:	B





Wire Fence Details (FN-01)
SCALE: 1 : 20



Waste Enclosure Wire Fence Details (FN-02)
SCALE: 1 : 20

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A	02.09.2021	ISSUED FOR APPROVAL	IO	JC

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PROJECT:
PROPOSED INDUSTRIAL DEVELOPMENT
186-206 CAPTAIN COOK DRIVE, KURNELL

TITLE:
FENCE DETAILS

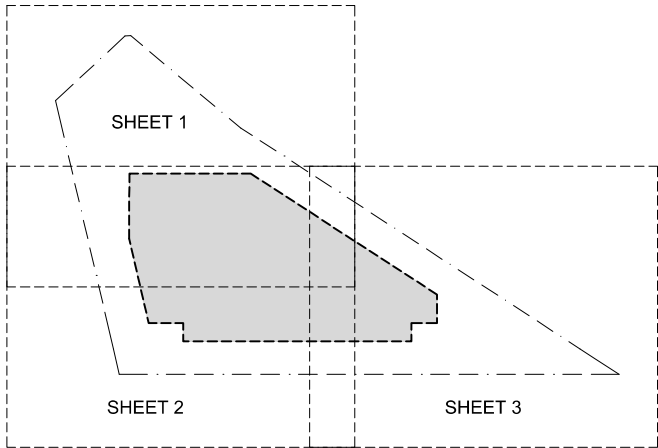
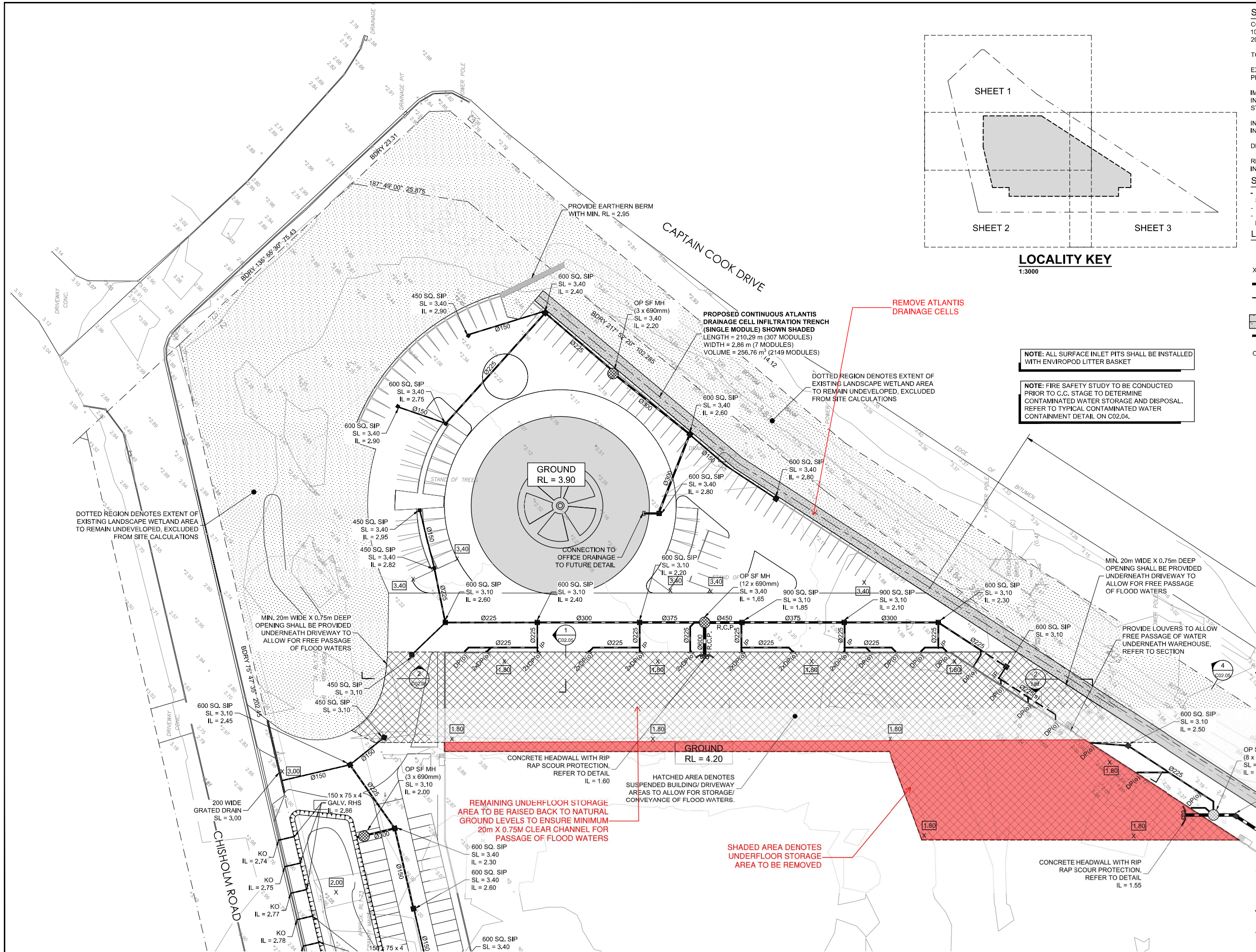
CLIENT:



DATE: JUNE, 2021
DRAWN BY: IO
SCALE: 1 : 20 @A1
SCALE:

JOB NO:	21221
DRAWING NO:	TP08
REVISION:	A





STORMWATER DESIGN SUMMARY	
COUNCIL: SUTHERLAND SHIRE COUNCIL	
100 YEAR, 5 MIN STORM	= 244 mm/hr
20 YEAR, 5 MIN STORM	= 191 mm/hr
TOTAL SITE AREA	= 5.88 ha
EXISTING IMPERVIOUS AREA	= 1.25 ha
PROPOSED IMPERVIOUS AREA	= 4.10 ha
IMPERVIOUS AREA DIRECTED TO INFILTRATION TRENCHES. INFILTRATION TRENCHES DESIGNED FOR UP TO 1% A.E.P STORM EVENT.	
INFILTRATION STORAGE REQUIRED	= 284.2 m³
INFILTRATION STORAGE CAPACITY	= 297.8 m³
DESIGN INFILTRATION RATE	= 54mm/hr (0.015l/s/hr)

REFER TO CALCULATION SHEET ON DWG C12.04 FOR INFILTRATION CALCULATIONS.

STORMWATER DRAINAGE NOTES

- ALL DRAINAGE LINES SHALL BE uPVC (CLASS SH) STORMWATER DRAINAGE PIPE, U.N.O.
- ALL DRAINAGE LINES SHALL BE LAID @ 1% FALL MIN. U.N.O.
- FIRST FLUSH RAINWATER DEVICES TO BE FITTED TO DRAINAGE LINES TO BUILDER'S DETAIL, TYPICAL

LEGEND	
	DENOTES DOWNPIPE OVER
	DENOTES DOWNPIPE OVER
	DENOTES DOWNPIPE OVER
	DENOTES DOWNPIPE OVER
	DENOTES DOWNPIPE OVER
	DENOTES DOWNPIPE OVER
	DENOTES DOWNPIPE OVER
	DENOTES DOWNPIPE OVER

NOTE: ALL SURFACE INLET PITS SHALL BE INSTALLED WITH ENVIPOD LITTER BASKET

NOTE: FIRE SAFETY STUDY TO BE CONDUCTED PRIOR TO C.G. STAGE TO DETERMINE CONTAMINATED WATER STORAGE AND DISPOSAL. REFER TO TYPICAL CONTAMINATED WATER CONTAINMENT DETAIL ON C02.04.

NOTE: DO NOT SCALE OFF DRAWINGS, REFER TO ARCHITECTURAL PLANS. VERIFY DIMENSIONS ON SITE

REV	DATE	DESCRIPTION	BY
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P1	25.08.21	ISSUED FOR COORDINATION	F.I.

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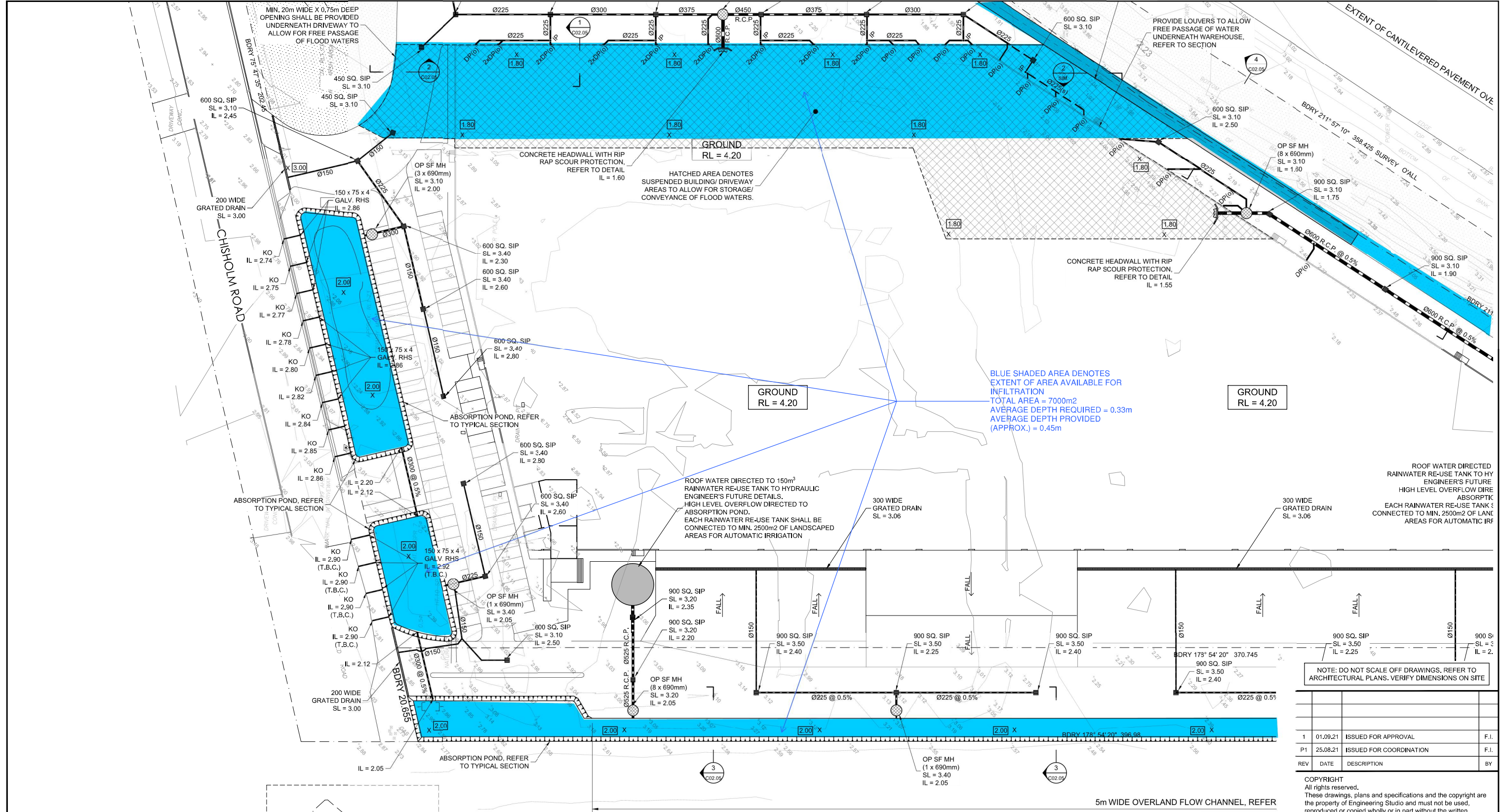
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PROPOSED WAREHOUSE
AT 186-206 CAPTAIN COOK DRIVE, KURNELL
FOR JSA STUDIO

STORMWATER DRAINAGE PLAN SHEET 1		
JOB NUMBER:	DWG NUMBER:	ORIGINAL SIZE:
16624	C02.01	A1
DESIGNED BY:	DATE:	
D.B.	OCTOBER 2016	
DRAWN BY:	SCALE:	
B.C.	1:400 U.N.O.	

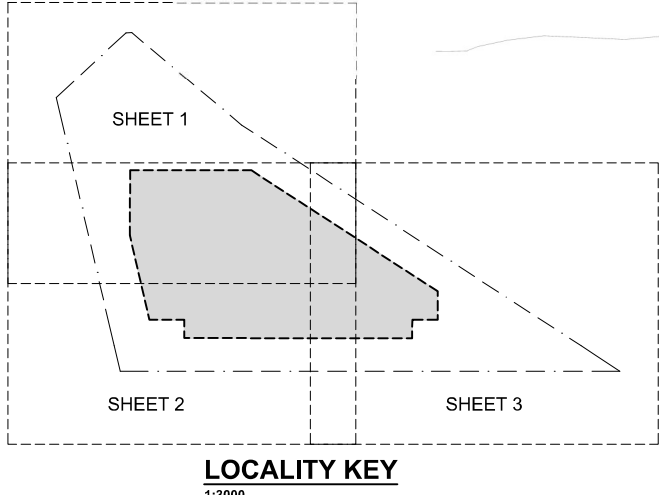


STORMWATER DRAINAGE NOTES

- ALL DRAINAGE LINES SHALL BE uPVC (CLASS SH) STORMWATER DRAINAGE PIPE, U.N.O.
- ALL DRAINAGE LINES SHALL BE LAID @ 1% FALL MIN. U.N.O.
- FIRST FLUSH RAINWATER DEVICES TO BE FITTED TO DRAINAGE LINES TO BUILDER'S DETAIL, TYPICAL

LEGEND

- Ø225 DOWN PIPE
- X 100.00 PROPOSED FINISHED SURFACE LEVEL
- PROPOSED BELOW GROUND PIPELINE
- SUBSOIL DRAINAGE LINE
- PROPOSED SURFACE INLET PIT
- DENOTES ABSORPTION TRENCH, REFER TO DETAIL
- SUSPENDED PIPELINE
- DENOTES STORMWATER 360 PRECAST STORMFILTER MANHOLE WITH STORMFILTER FULL FLOW ZPG CARTRIDGES TO MANUFACTURER'S SPECIFICATION



STORMWATER DRAINAGE PLAN - SHEET 2

1:400

NOTE: FIRE SAFETY STUDY TO BE CONDUCTED PRIOR TO C.C. STAGE TO DETERMINE CONTAMINATED WATER STORAGE AND DISPOSAL. REFER TO TYPICAL CONTAMINATED WATER CONTAINMENT DETAIL ON C02.04.

NOTE: ALL SURFACE INLET PITS SHALL BE INSTALLED WITH ENVIROPOD LITTER BASKET

NOTE: DO NOT SCALE OFF DRAWINGS, REFER TO ARCHITECTURAL PLANS. VERIFY DIMENSIONS ON SITE

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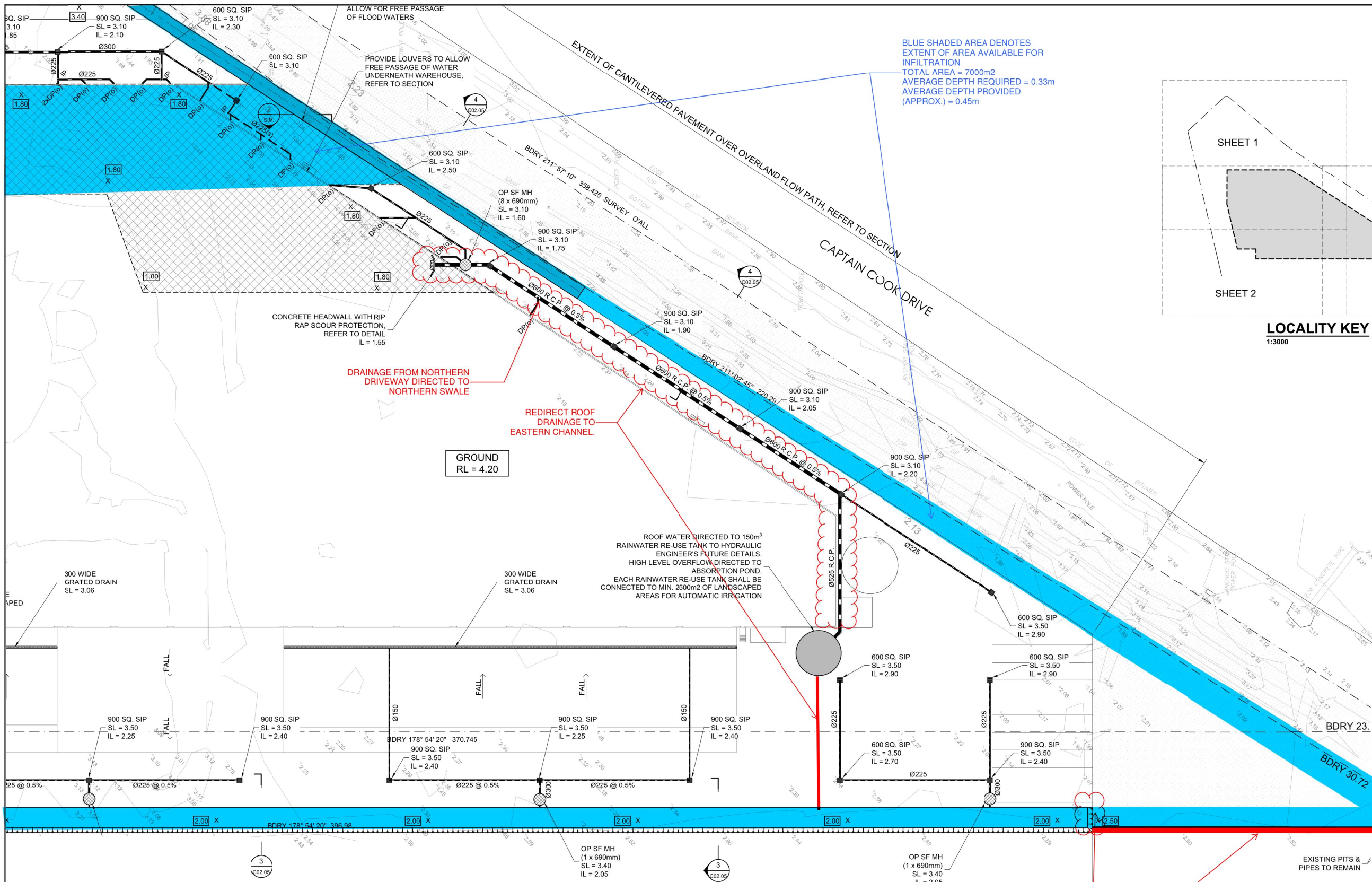
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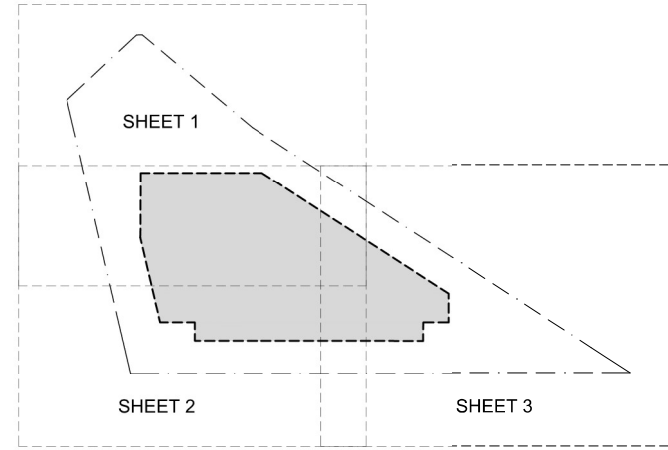
Postal Address
PO Box 7191
BAULKHAM HILLS NSW 2153

PROPOSED WAREHOUSE
AT 186-206 CAPTAIN COOK DRIVE, KURNELL
FOR JSA STUDIO

STORMWATER DRAINAGE PLAN SHEET 2		
JOB NUMBER: 16624	DWG NUMBER: C02.02	ORIGINAL SIZE: A1
DESIGNED BY: D.B.	DATE: OCTOBER 2016	
DRAWN BY: B.C.	SCALE: 1:400 U.N.O.	



BLUE SHADED AREA DENOTES
EXTENT OF AREA AVAILABLE FOR
INFILTRATION
TOTAL AREA = 7000m²
AVERAGE DEPTH REQUIRED = 0.33m
AVERAGE DEPTH PROVIDED
(APPROX.) = 0.45m



LOCALITY KEY
1:3000

- STORMWATER DRAINAGE NOTES**
- ALL DRAINAGE LINES SHALL BE uPVC (CLASS SH) STORMWATER DRAINAGE PIPE, U.N.O.
 - ALL DRAINAGE LINES SHALL BE LAID @ 1% FALL MIN, U.N.O.
 - FIRST FLUSH RAINWATER DEVICES TO BE FITTED TO DRAINAGE LINES TO BUILDER'S DETAIL, TYPICAL
- LEGEND**
- Ø225 DOWN PIPE
 - X 100.00 PROPOSED FINISHED SURFACE LEVEL
 - PROPOSED BELOW GROUND PIPELINE
 - SUBSOIL DRAINAGE LINE
 - PROPOSED SURFACE INLET PIT
 - DENOTES ABSORPTION TRENCH, REFER TO DETAIL
 - SUSPENDED PIPELINE
 - DENOTES STORMWATER 360 PRECAST STORMFILTER MANHOLE WITH STORMFILTER FULL FLOW ZPG CARTRIDGES TO MANUFACTURER'S SPECIFICATION

STORMWATER DRAINAGE PLAN - SHEET 3
1:400

- NOTE:** FIRE SAFETY STUDY TO BE CONDUCTED PRIOR TO C.C. STAGE TO DETERMINE CONTAMINATED WATER STORAGE AND DISPOSAL. REFER TO TYPICAL CONTAMINATED WATER CONTAINMENT DETAIL ON C02.04.
- NOTE:** ALL SURFACE INLET PITS SHALL BE INSTALLED WITH ENVIROPOD LITTER BASKET

REMOVE BATTER FROM END OF CHANNEL AND EXTEND BATTER ALONG EASTERN BOUNDARY TO DIRECT WATER TO DRAINAGE TO NORTH-EASTERN CORNER

NOTE: DO NOT SCALE OFF DRAWINGS, REFER TO ARCHITECTURAL PLANS. VERIFY DIMENSIONS ON SITE

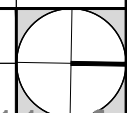
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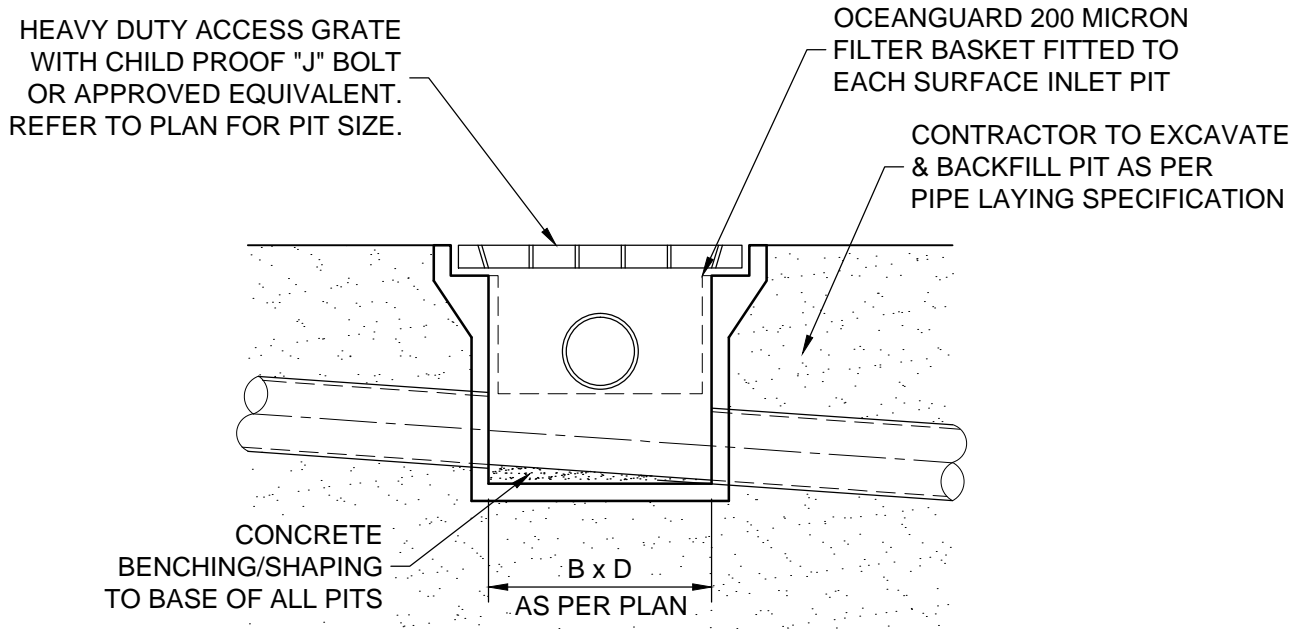
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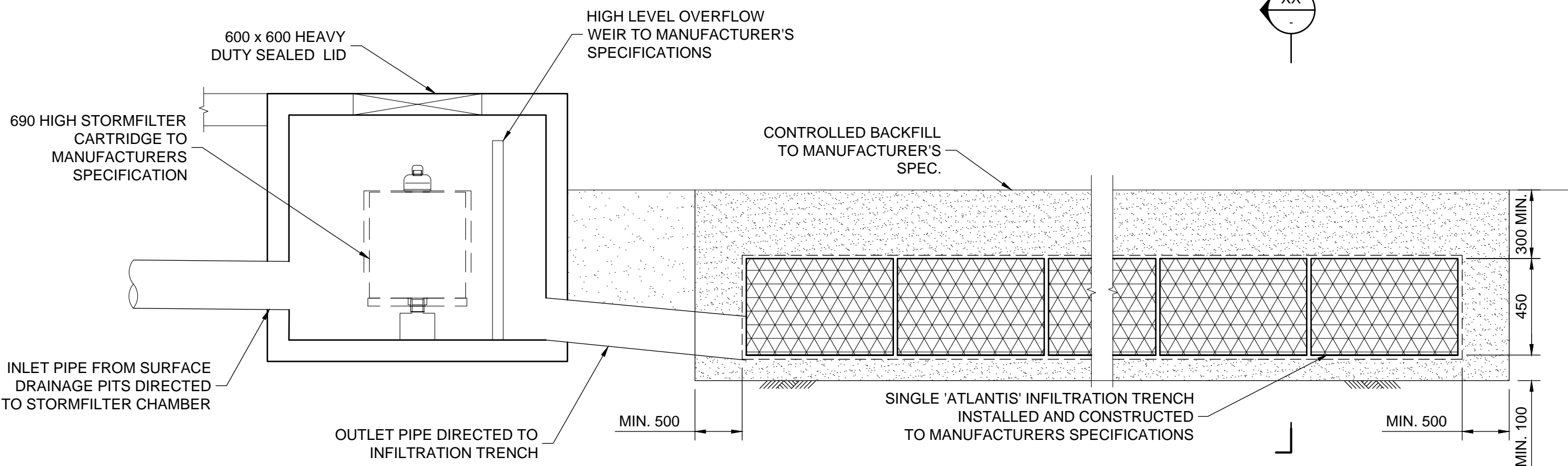
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BAULKHAM HILLS NSW 2115

PROPOSED WAREHOUSE AT 186-206 CAPTAIN COOK DRIVE, KURNELL FOR JSA STUDIO		
STORMWATER DRAINAGE PLAN SHEET 3		
JOB NUMBER: 16624	DWG NUMBER: C02.03	ORIGINAL SIZE: A1
DESIGNED BY: D.B.	DATE: OCTOBER 2016	
DRAWN BY: B.C.	SCALE: 1:400 U.N.O.	

NOTE: ALL SURFACE INLET PITS SHALL BE INSTALLED WITH ENVIROPOD LITTER BASKET



TYPICAL SURFACE INLET PIT DETAIL
1:20



TYPICAL OCEAN PROTECT STORMFILTER TREATMENT/ ATLANTIS INFILTRATION TRENCH DETAIL
1:20

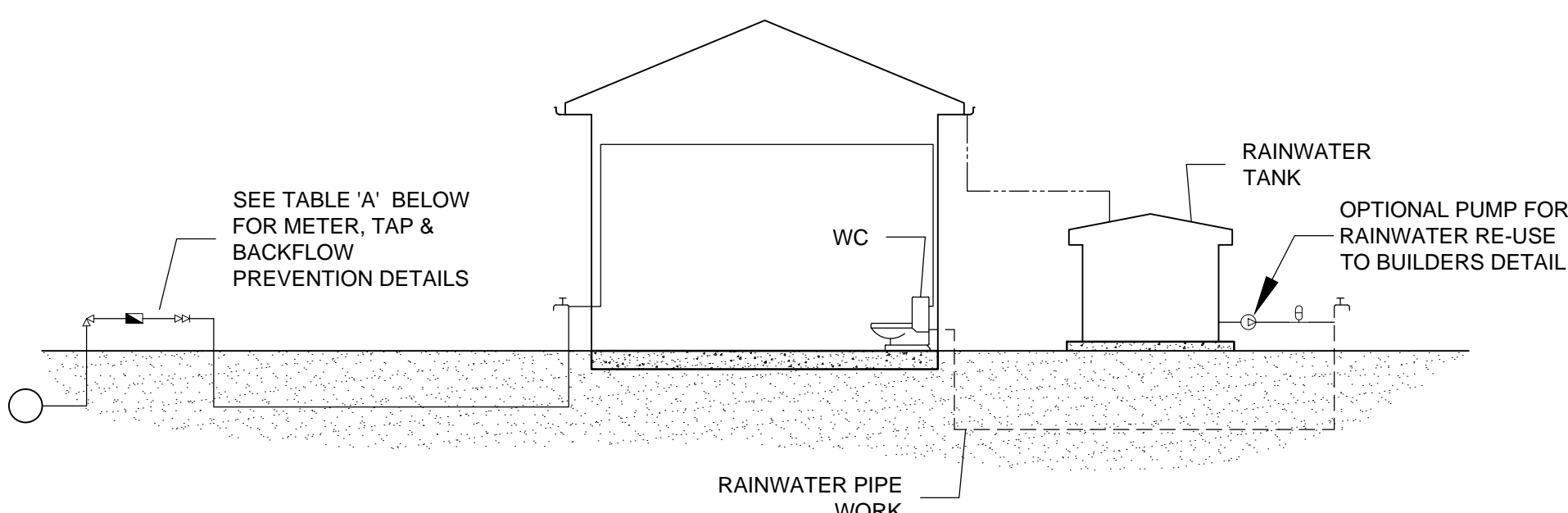
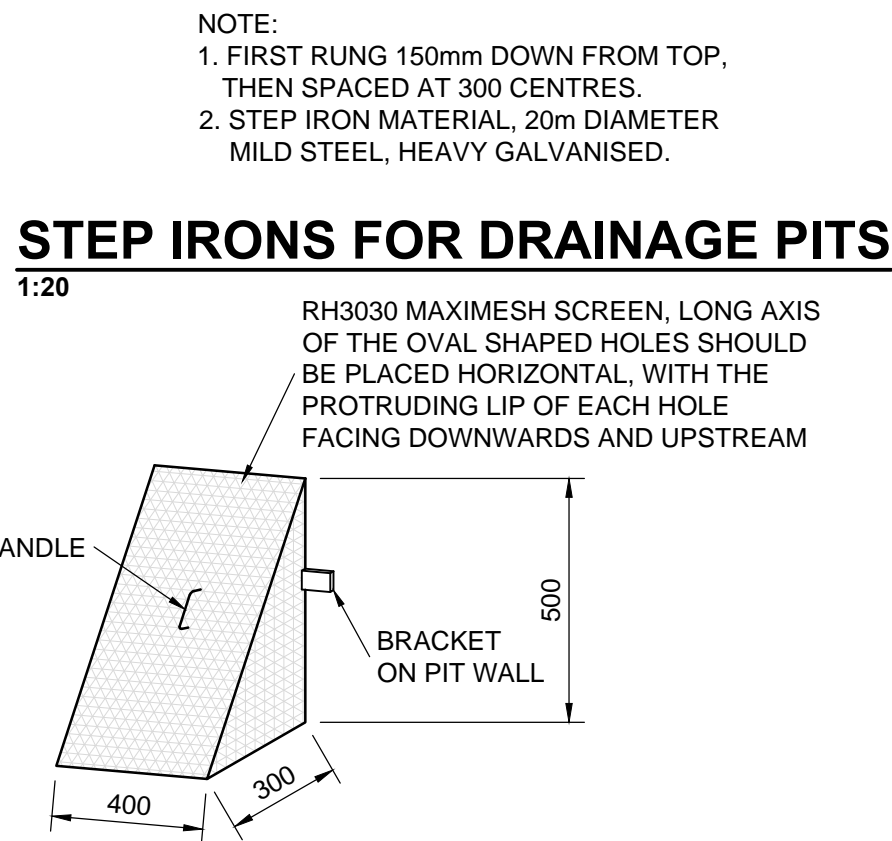
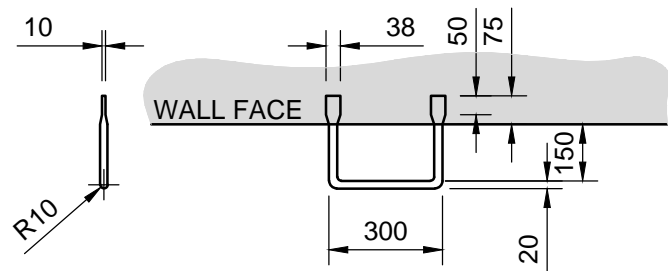


TABLE A			
RAINWATER TANK LOCATION	METER SIZE (mm)	TYPE OF TAP	TYPE OF BACKFLOW PREVENTION
ABOVE GROUND	20	BALL VALVE	DUAL CHECK VALVE (COMBINED WITH METER)
	25	BALL VALVE	DUAL CHECK VALVE
	> 32	BALL VALVE	DUAL CHECK VALVE
BELOW GROUND	20	BALL VALVE	TESTABLE DOUBLE CHECK VALVE
	25	BALL VALVE	TESTABLE DOUBLE CHECK VALVE
	> 32	BALL VALVE	TESTABLE DOUBLE CHECK VALVE

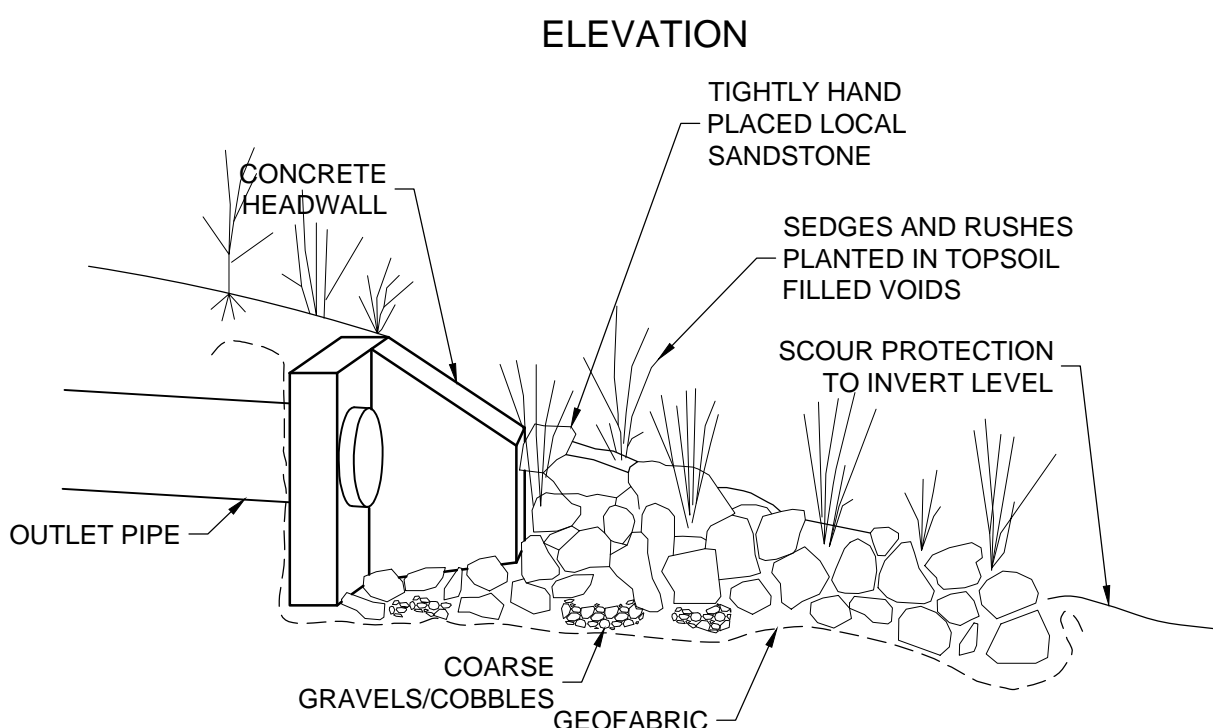
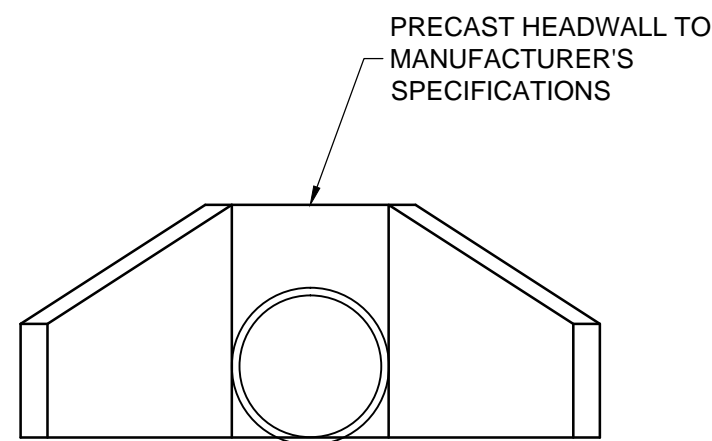
LEGEND	
	PRESSURE VESSEL
	METER
	BALL VALVE RIGHT ANGLE TYPE
	DUAL CHECK VALVE
	PUMP
	GARDEN TAP
	DRINKING WATER SUPPLY PIPES
	RAINWATER SUPPLY PIPES
	DOWN PIPES

- DIAGRAM NOTES:
- DRAWING TO BE READ IN CONJUNCTION WITH SYDNEY WATER PLUMBING REQUIREMENTS
 - FOR TANKS 10,000 LITRES OR LESS, COUNCIL DEVELOPMENT CONSENT IS NOT REQUIRED, IF THEIR CONDITIONS FOR INSTALLATION ARE FOLLOWED.
 - FOR TANKS GREATER THAN 10,000 LITRES COUNCIL DEVELOPMENT CONSENT IS GENERALLY REQUIRED.
 - FOR TANKS MORE THAN 10,000 LITRES APPROVAL IS REQUIRED FOR BUILDING OVER SEWERS.
 - SYDNEY WATER'S APPROVAL IS REQUIRED FOR ANY TOP UP FROM DRINKING WATER SUPPLY, REGARDLESS OF TANK SIZE. NO DIRECT CONNECTION IS ALLOWED BETWEEN THE DRINKING WATER SUPPLY AND THE RAINWATER TANK SUPPLY.
 - RAINWATER PIPEWORK IS SHOWN ON THE DIAGRAM AS SUPPLYING INTERNAL AND EXTERNAL RAINWATER USES. CUSTOMERS MAY WANT ONE OR THE OTHER.
 - ANY DESIGNED ACCESS LID INTO RAINWATER RE-USE TANK IS TO HAVE A LOCKABLE LID. IF THE LID IS DESIGNED TO BE ACCESSED BY A MAINTENANCE PERSON, IT MUST BE AT LEAST 600 mm x 900 mm IN SIZE.

DUAL DRINKING WATER & RAINWATER SUPPLY DIAGRAM
N.T.S.

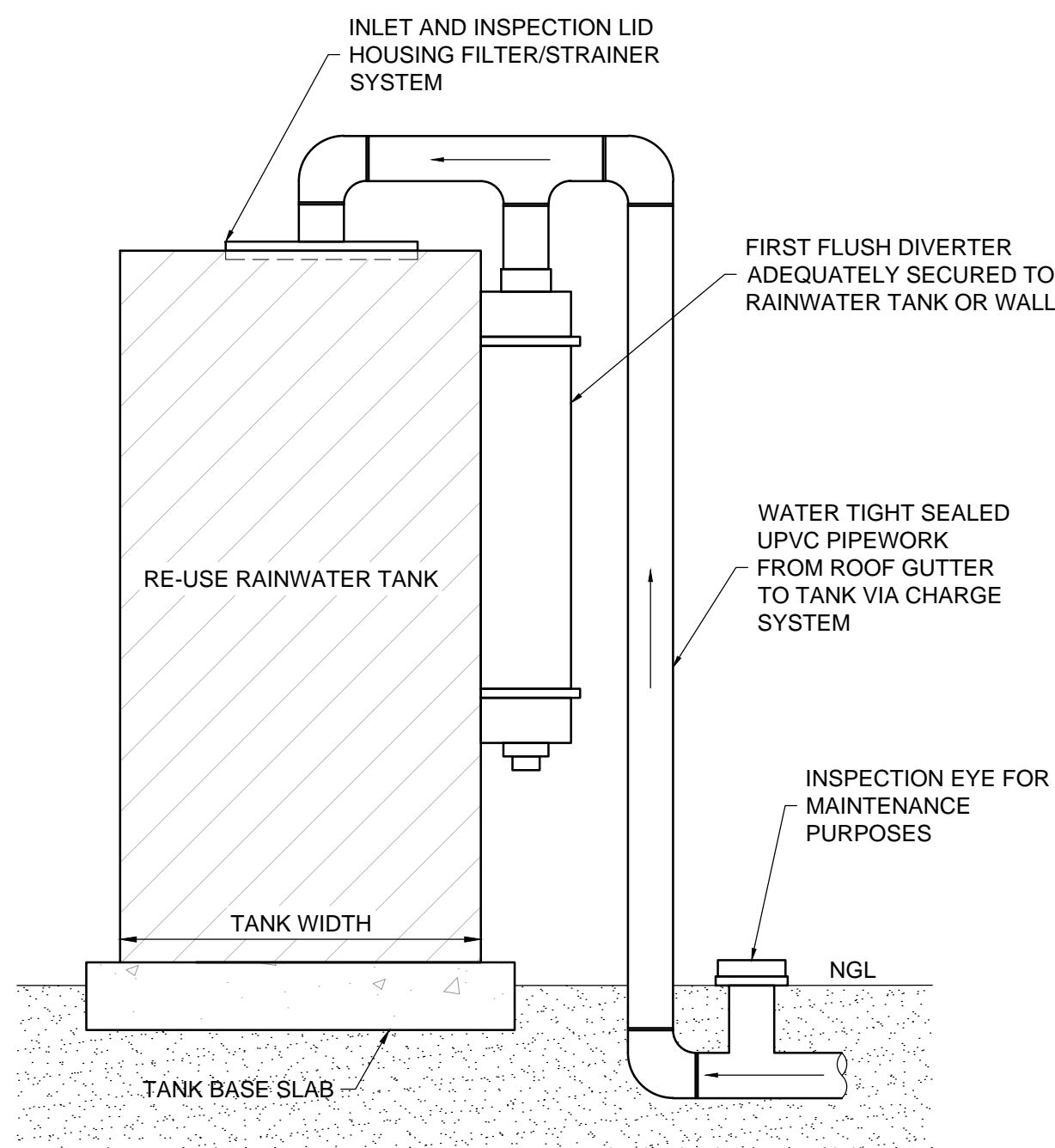


STANDARD TRASH SCREEN
NTS



TYPICAL HEADWALL OUTLET DETAIL
N.T.S.

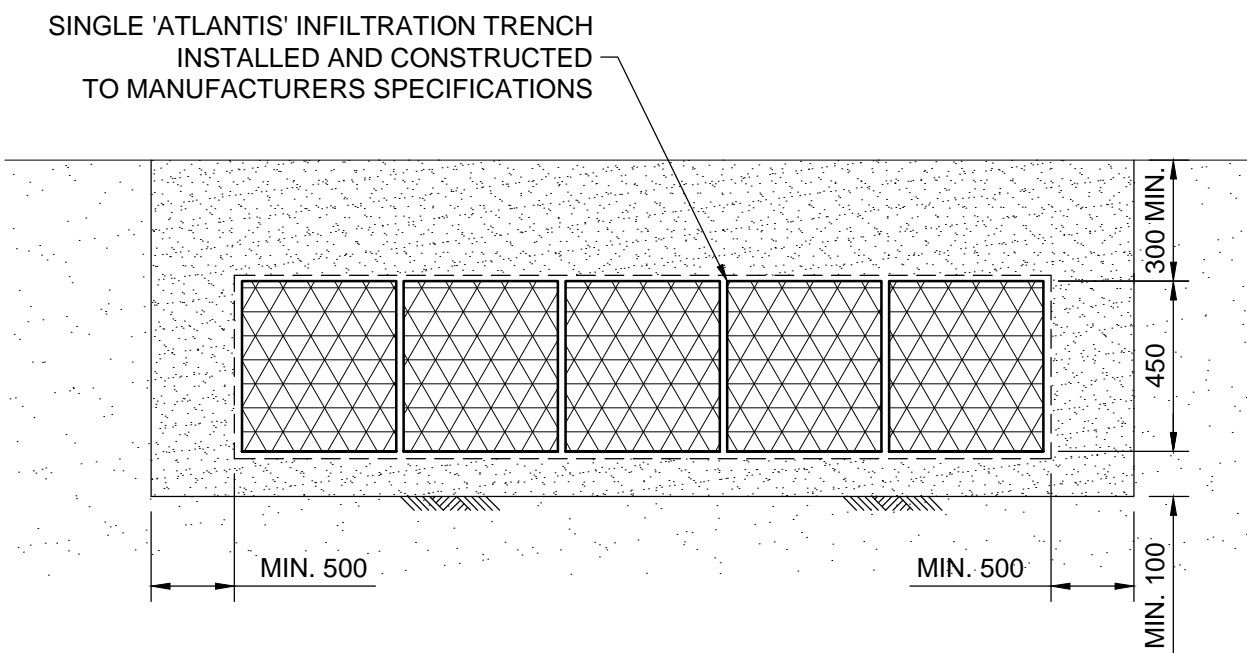
- INSTALLATION PROCEDURES
- EXCAVATE PIT ALLOWING FOR TANK DIMENSIONS AND AT LEAST 500mm TO EACH SIDE AND 500mm TO THE SURFACE. ENSURE THE BASE IS LEVEL USING A 100mm BASE OF SAND.
 - INSTALL AUSDRAIN ENVIROSUMP ADJACENT TO THE PIT AND CONNECT DOWN PIPES IN THE TOP OF THE ENVIROSUMP.
 - PLACE GEOTEXTILE FABRIC INSIDE THE PIT AND ALLOW FOR AT LEAST 150mm OVERLAP AT EACH SEAM.
 - PLACE THE TANK MODULES ON TOP OF AND BESIDE ONE ANOTHER ENSURING THE 450mm SIDE IS IN THE UPRIGHT POSITION AND SECURE USING AUSDRAIN CONNECTOR PINS.
 - CONNECT THE ENVIROSUMP AND OVERFLOW PIPE TO THE MODULAR TANK USING AUSDRAIN 150mm PIPE CONNECTORS. REDUCERS MAY BE NEEDED FOR 90mm AND 100mm CONNECTORS.
 - CONNECT PVC PIPES TO THE TANK AND SECURE ALL SEAMS AND FABRIC AROUND PIPE CONNECTIONS USING ADHESIVE TAPE.
 - BACK-FILL WITH WASHED COURSE RIVER SAND (2.0mm TO 0.5mm PARTICULAR SIZE) INCLUDING 100mm ABOVE THE TANK AND LAY 400mm OF CLEAN TOPSOIL AVOIDING CLAY ELEMENTS ABOVE THE SAND PROFILE. WHEN INSTALLED UNDER A DRIVEWAY THE MINIMUM COVER IS 200mm PROVIDED A 150mm REINFORCED PAVEMENT IS USED.
 - ONCE INSTALLED, SECTION OFF THE TANK AREA TO PREVENT HEAVY TRAFFIC FROM DAMAGING THE MODULES DURING CONSTRUCTION WORKS.



TYPICAL FIRST FLUSH DETAIL
N.T.S.

COUNCIL: Sutherland Council									
Absorption Trench									
Inflow/Outflow Data									
Imperious Area						40750.00	m2		
C						1.00			
ARI						100.00	years		
Advised Absorption Rate									
0.015 L/m2/s									
Absorption Trench Dimensions									
Trench Dimensions									
Length	210.3	m	Absorption Ponds						
Width	2.86	m	Surface Area		2780	m			
Thickness	0	m	Height		0.45	m			
Height	0.45	m	Volume		1251000	L			
Drainage Cell Volume	1220.96	L/m							
Rainwater Tank									
Storage Volume						300000	L		
Adopted 1/3 Storage						100000	L		
Subfloor Absorption									
Area						4569	m ²		
Ponding Depth						0.3	m		
Volume						1370700	L		
ARI	Storm (min)	Intensity (mm/hr)	Outflow Adsorption (Litres)	Inflow Rate (l/s)	Storm Inflow Volume (l)	Required Storage (l)	Available Storage (l)	Suitability	
1 in 100	6	226	57465.3	2560.2	921686.8	864221.4	2978467.9	OK	
1 in 100	10	187	95775.6	2118.4	1271057.7	1175282.1	2978467.9	OK	
1 in 100	15	155	143663.3	1755.9	1580325.8	1436662.4	2978467.9	OK	
1 in 100	30	107	287326.7	1212.1	2181869.1	1894542.4	2978467.9	OK	
1 in 100	45	83.7	430990.0	948.2	2560127.7	2129137.7	2978467.9	OK	
1 in 100	60	70.3	574653.3	796.4	2867016.8	2292363.5	2978467.9	OK	
1 in 100	90	55	861980.0	623.1	3364564.5	2502584.5	2978467.9	OK	
1 in 100	120	46.3	1149306.6	524.5	3776468.8	2627162.1	2978467.9	OK	
1 in 100	180	36.7	1723959.9	415.8	4490164.3	2766204.3	2978467.9	OK	
1 in 100	270	29.4	2585939.9	333.1	5395538.0	2809598.1	2978467.9	OK	

INFILTRATION TRENCH CALCULATIONS



SECTION XX
1:20

NOTE: DO NOT SCALE OFF DRAWINGS. REFER TO ARCHITECTURAL PLANS. VERIFY DIMENSIONS ON SITE

REV	DATE	DESCRIPTION	BY
1	01.09.21	ISSUED FOR APPROVAL	F.I.
P1	25.08.21	ISSUED FOR COORDINATION	F.I.

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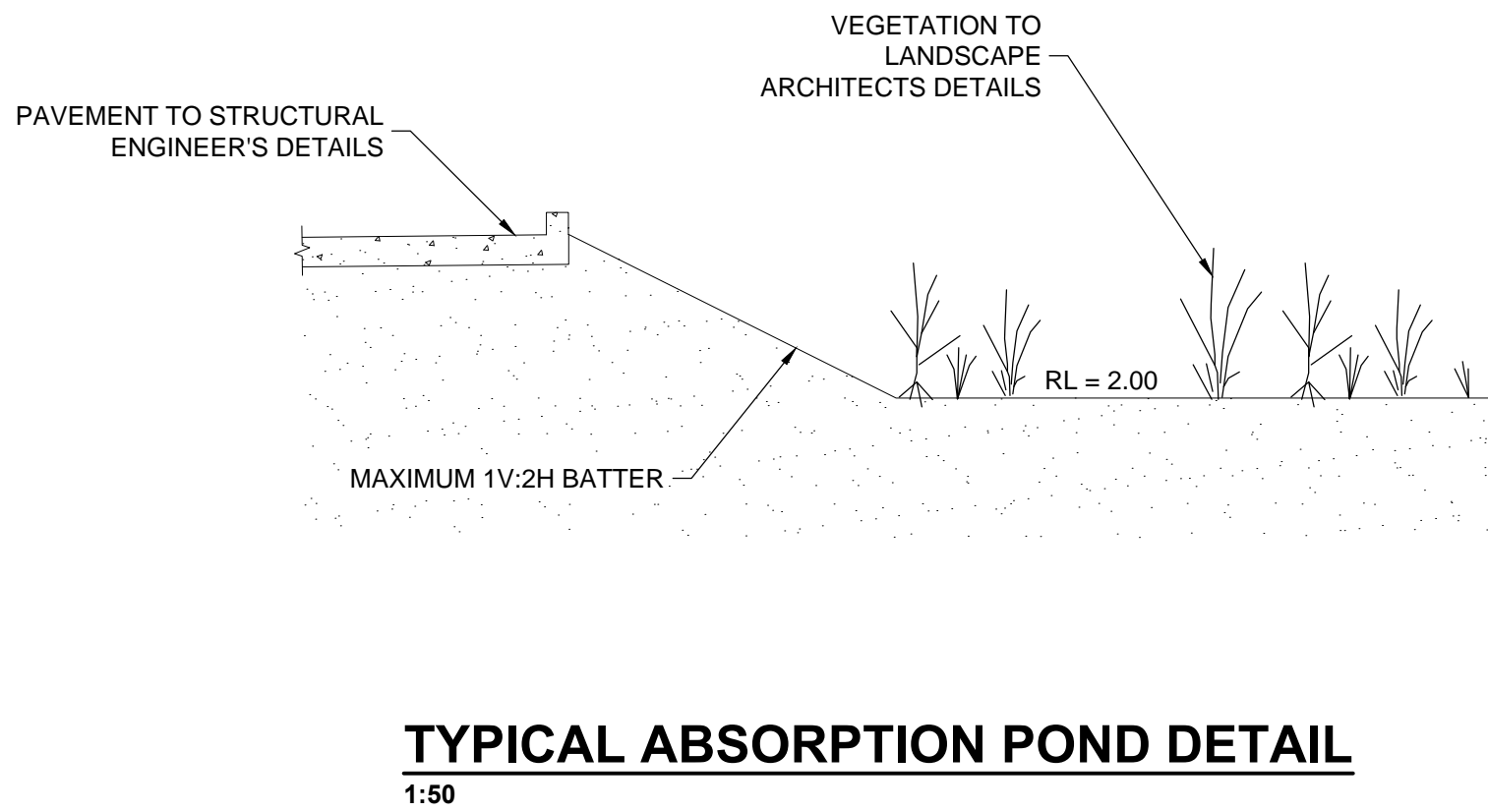
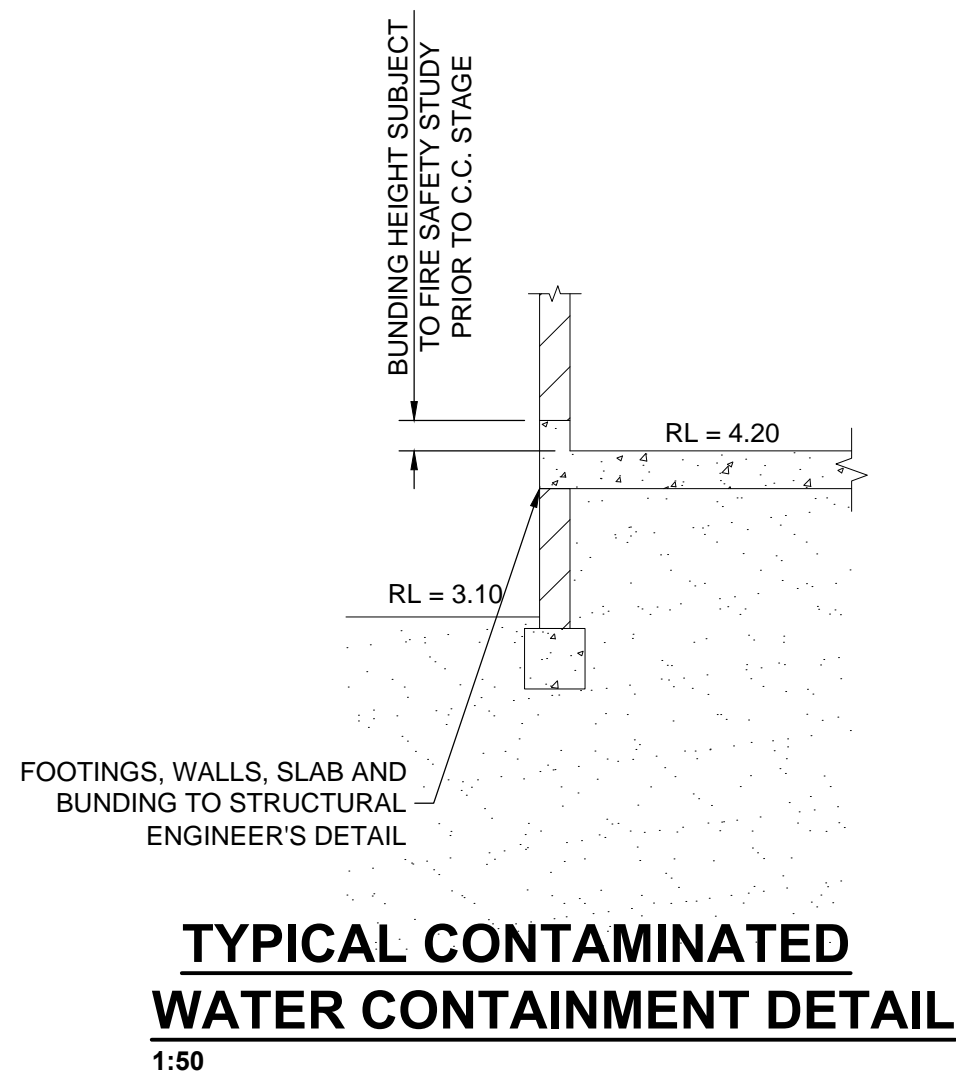
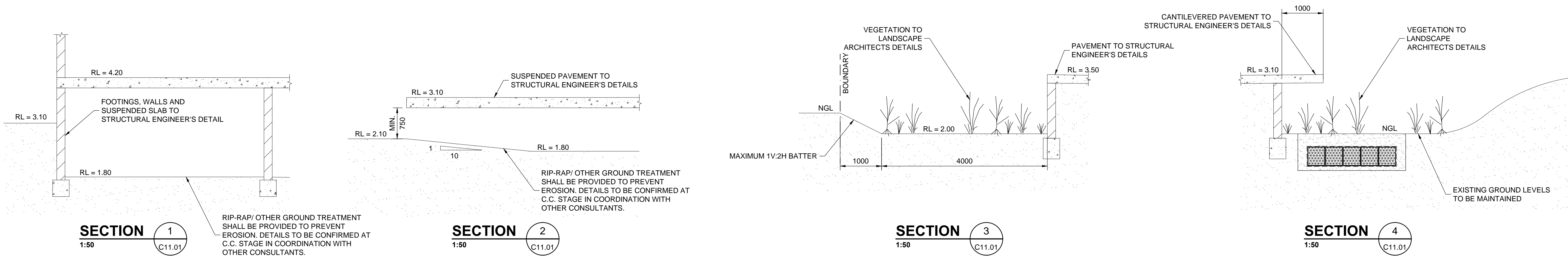
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BAULKHAM HILLS NSW 2153

PROPOSED WAREHOUSE
AT 186-206 CAPTAIN COOK DRIVE, KURNELL
FOR JSA STUDIO

STORMWATER DETAILS SHEET

JOB NUMBER:	DWG NUMBER:	ORIGINAL SIZE:
16624	C02.04	A1
DESIGNED BY:	DATE:	
D.B.	OCTOBER 2016	
DRAWN BY:	SCALE:	
B.C.	1:20 U.N.O.	

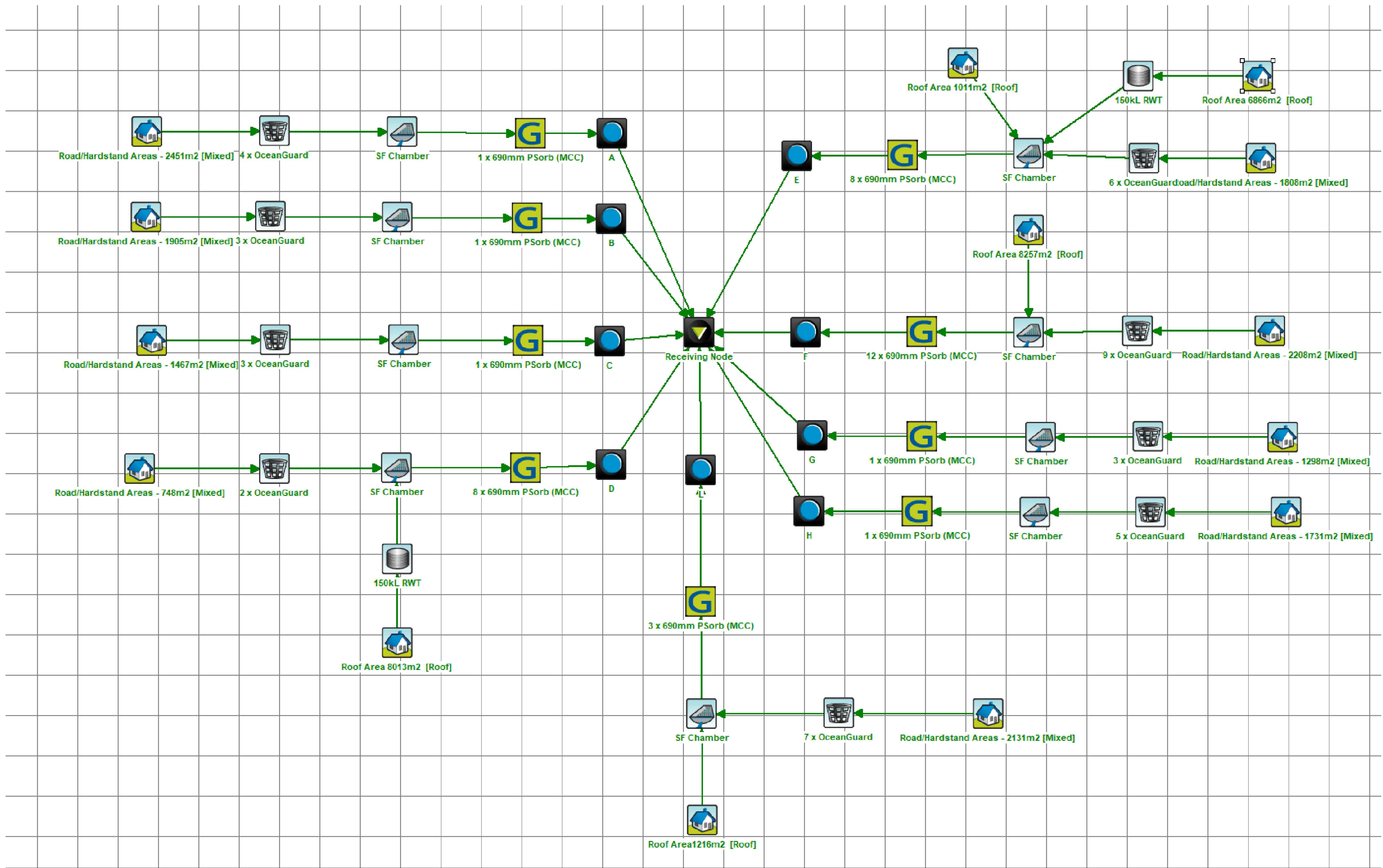


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P1	25.08.21	ISSUED FOR COORDINATION		F.I.
REV	DATE	DESCRIPTION		BY
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PROPOSED WAREHOUSE AT 186-206 CAPTAIN COOK DRIVE, KURNELL FOR JSA STUDIO				
STORMWATER DETAILS SHEET 2				
JOB NUMBER:	DWG NUMBER:	ORIGINAL SIZE:		
16624	C02.05	A1		
DESIGNED BY:	DATE:			
D.B.	OCTOBER 2016			
DRAWN BY:	SCALE:			
B.C.	1:20 U.N.O.			

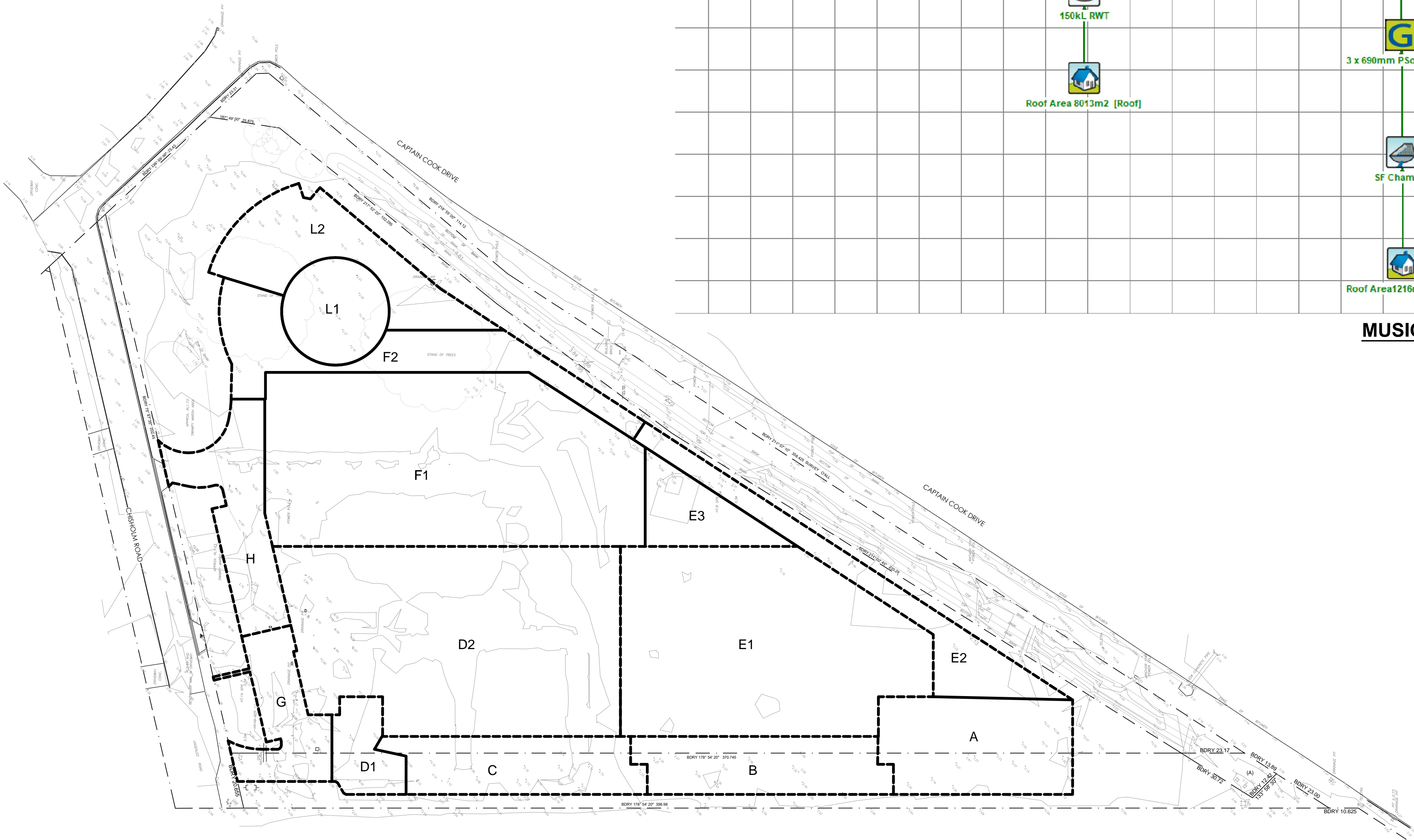
CATCHMENT TREATMENT EFFECTIVENESS

	POST DEVELOPMENT (UNTREATED)	POST DEVELOPMENT (TREATED)	% REDUCTION	COUNCIL TARGETS %
TOTAL SUSPENDED SOLIDS (Kg/yr)	5150	644	87.5	80
TOTAL PHOSPHOROUS (kg/yr)	10.7	4.22	60.7	40
TOTAL NITROGEN (kg/yr)	74.50	43.1	42.2	40
GROSS POLLUTANTS (Kg/yr)	872	0	100	90

A MUSIC MODEL HAS BEEN PREPARED TO DETERMINE EFFECTIVENESS OF WATER QUALITY TREATMENT DEVICES.
AN ELECTRONIC COPY OF THE MUSIC MODEL IS AVAILABLE ON REQUEST.



MUSIC MODEL



WATER QUALITY CATCHMENT PLAN
1:1000

NOTE: DO NOT SCALE OFF DRAWINGS. REFER TO ARCHITECTURAL PLANS. VERIFY DIMENSIONS ON SITE

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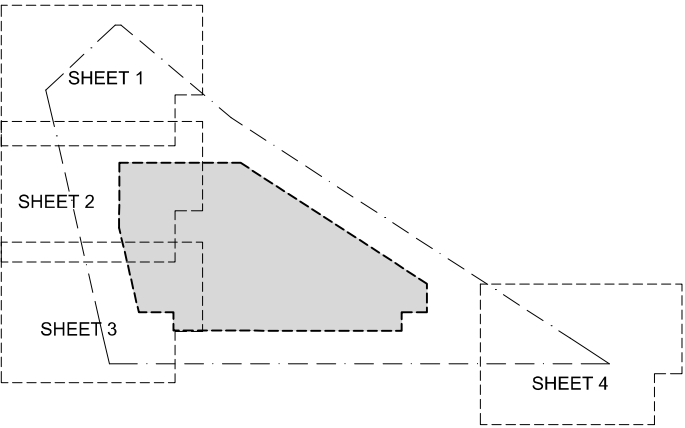
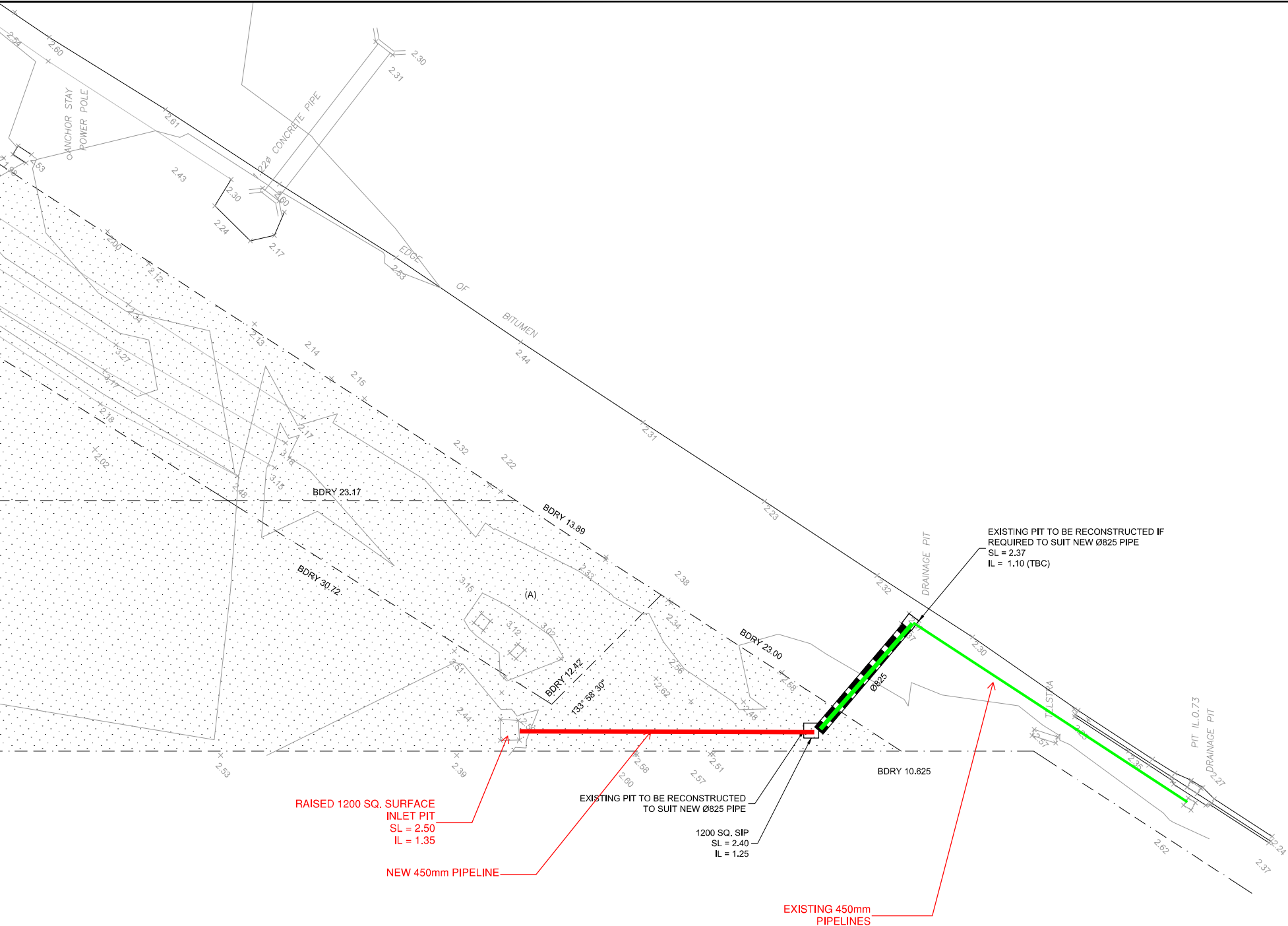


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BAULKHAM HILLS NSW 2153

PROPOSED WAREHOUSE
AT 186-206 CAPTAIN COOK DRIVE, KURNELL
FOR JSA STUDIO

MUSIC DESIGN

JOB NUMBER: 16624	DWG NUMBER: C02.06	ORIGINAL SIZE: A1
DESIGNED BY: D.B.	DATE: OCTOBER 2016	
DRAWN BY: B.C.	SCALE: 1:1000 U.N.O.	



LOCALITY KEY
1:3000

NOTE: DILAPIDATION REVIEW SHALL BE COMPLETED PRIOR TO CONSTRUCTION, WITH ANY PAVEMENT DAMAGED DURING CONSTRUCTION TO BE REPAIRED/ REPLACED

NOTE: SERVICES SCAN SHALL BE UNDERTAKEN PRIOR TO DETAILED DESIGN STAGE TO LOCATE ALL PUBLIC SERVICE INFRASTRUCTURE. SERVICES TO BE ADJUSTED/ RELOCATED AS REQUIRED.

NOTE: RECONSTRUCT EXISTING DAMAGED/ CRACKED KERB & GUTTER IN ACCORDANCE WITH COUNCIL'S PUBLIC DOMAIN TECHNICAL MANUAL SERIES 5 SHEET 01.

LEGEND

- X 100.00 PROPOSED FINISHED SURFACE LEVEL
- PROPOSED BELOW GROUND PIPELINE

NOTE: DO NOT SCALE OFF DRAWINGS. REFER TO ARCHITECTURAL PLANS. VERIFY DIMENSIONS ON SITE

REV	DATE	DESCRIPTION	BY
C	11.11.21	REVISED SIGNAGE	F.I.
B	08.11.21	RE-ISSUED FOR COUNCIL APPROVAL	F.I.
A	28.10.21	ISSUED FOR COUNCIL APPROVAL	F.I.

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PROPOSED FRONTAGE WORKS
AT 186-206 CAPTAIN COOK DRIVE, KURNELL
FOR JSA STUDIO

FRONTAGE WORKS LAYOUT
PLAN - SHEET 4

JOB NUMBER: 16624	DWG NUMBER: C11.04	ORIGINAL SIZE: A1
DESIGNED BY: F.I.	DATE: OCTOBER 2021	
DRAWN BY: F.I.	SCALE: 1:400 U.N.O.	

FRONTAGE WORKS LAYOUT PLAN - SHEET 4
1:200