Prepared by:





Prepared for:



LGA:



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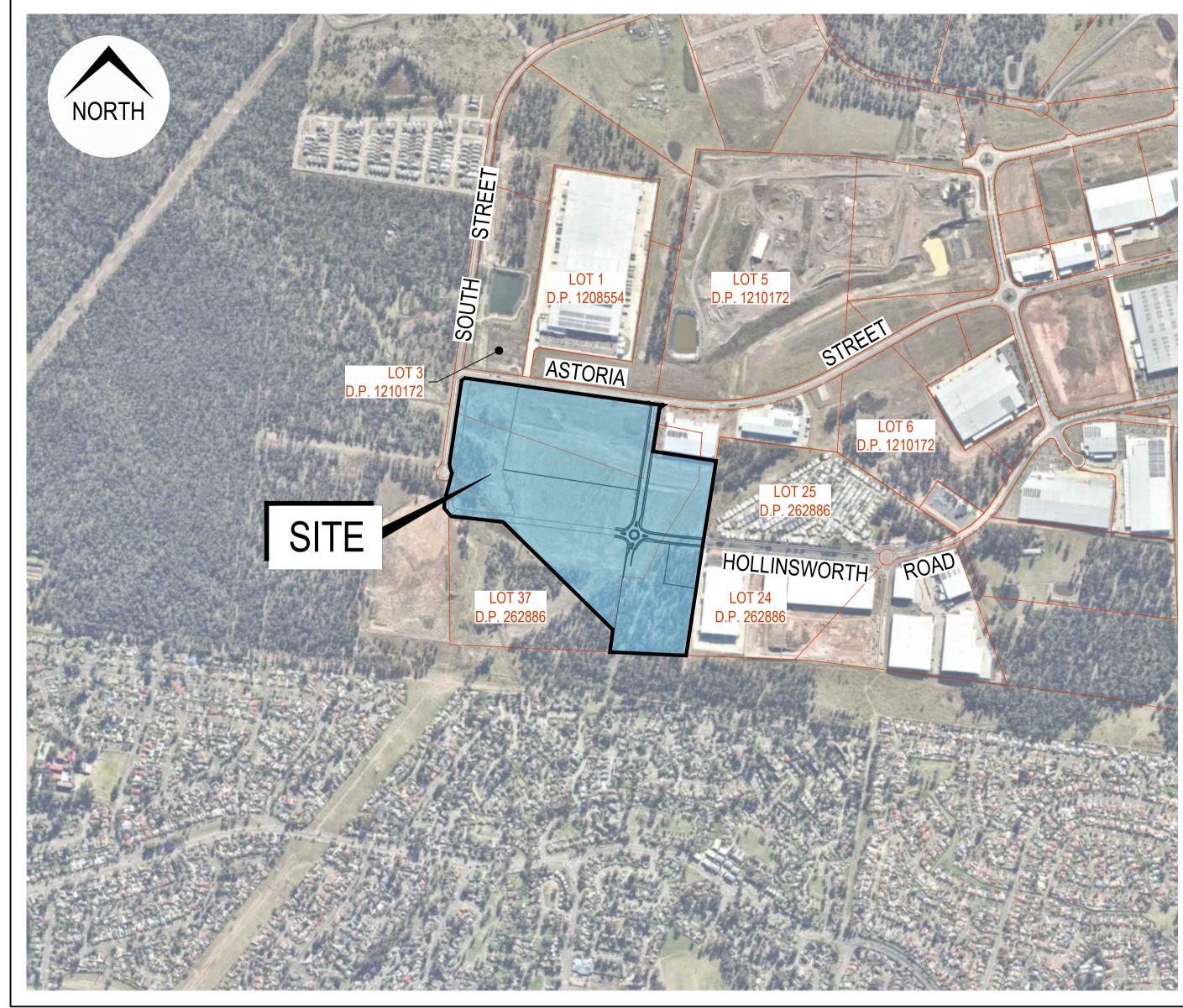
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SITE / LOCATION (Image courtesy of Nearmap 23.06.2020)

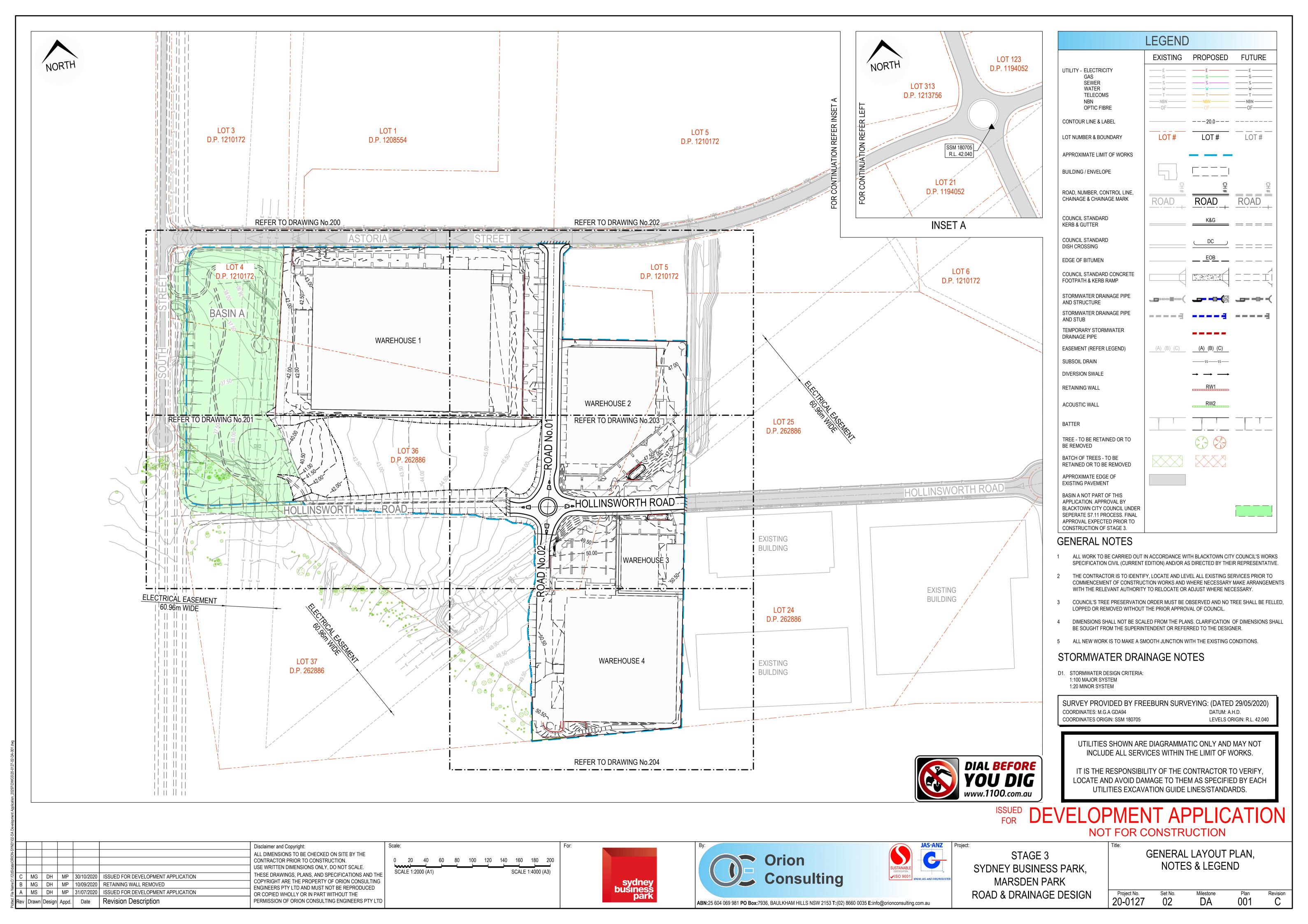
LOTS 4 & 5, D.P. 1210172 LOT 36, D.P. 262886

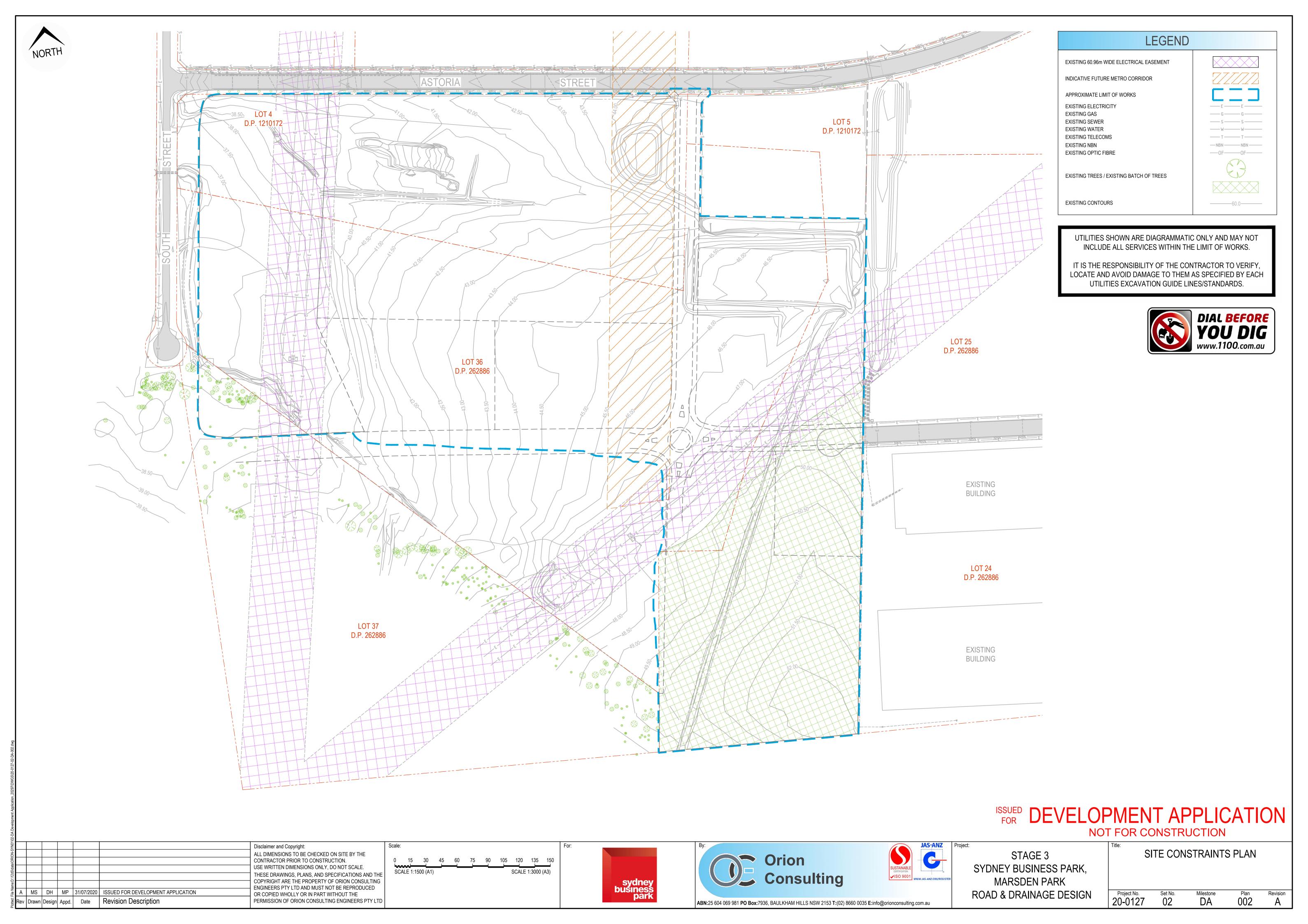
# STAGE 3, SYDNEY BUSINESS PARK, MARSDEN PARK

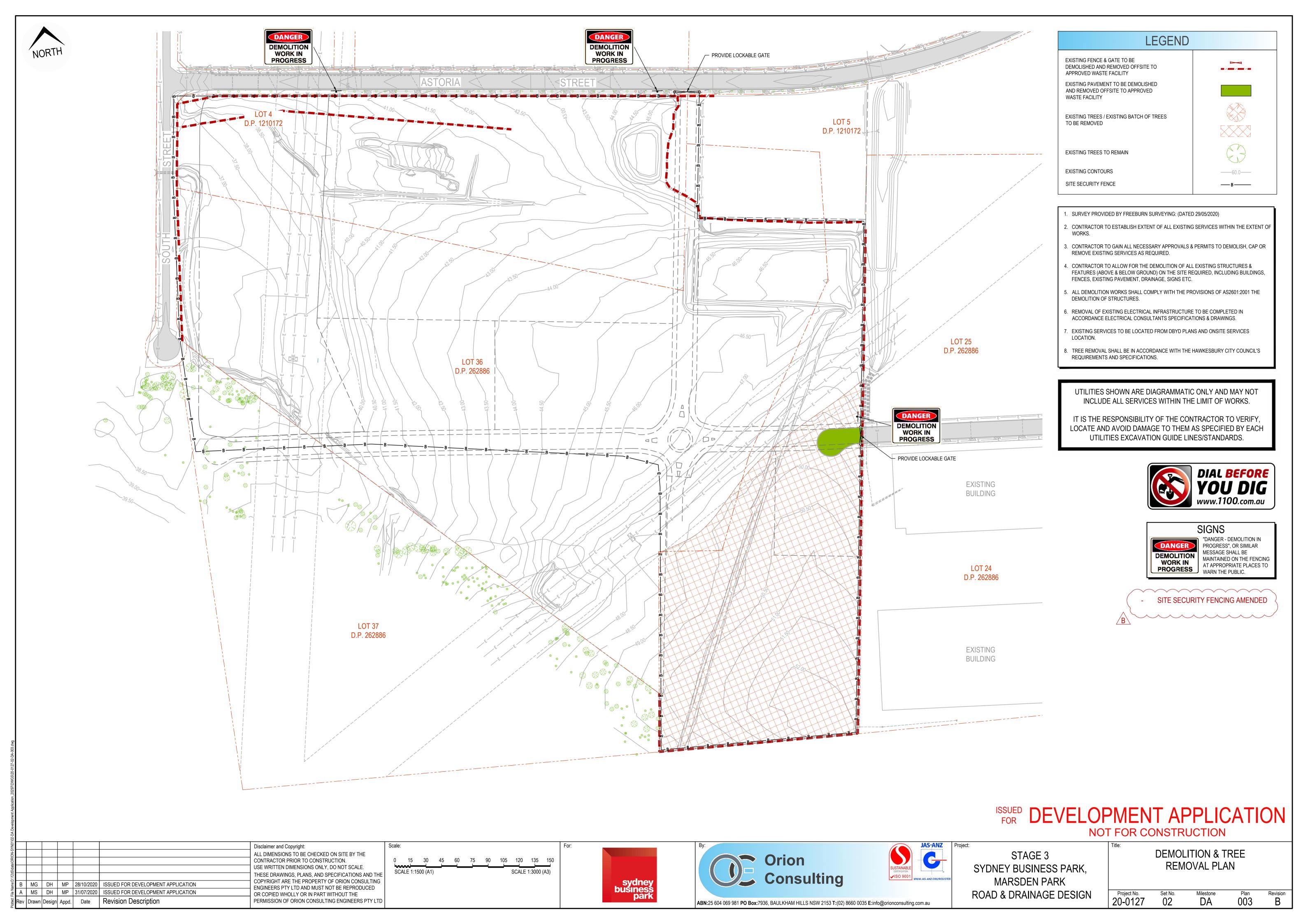
ROAD, DRAINAGE & BULK EARTHWORKS DESIGN

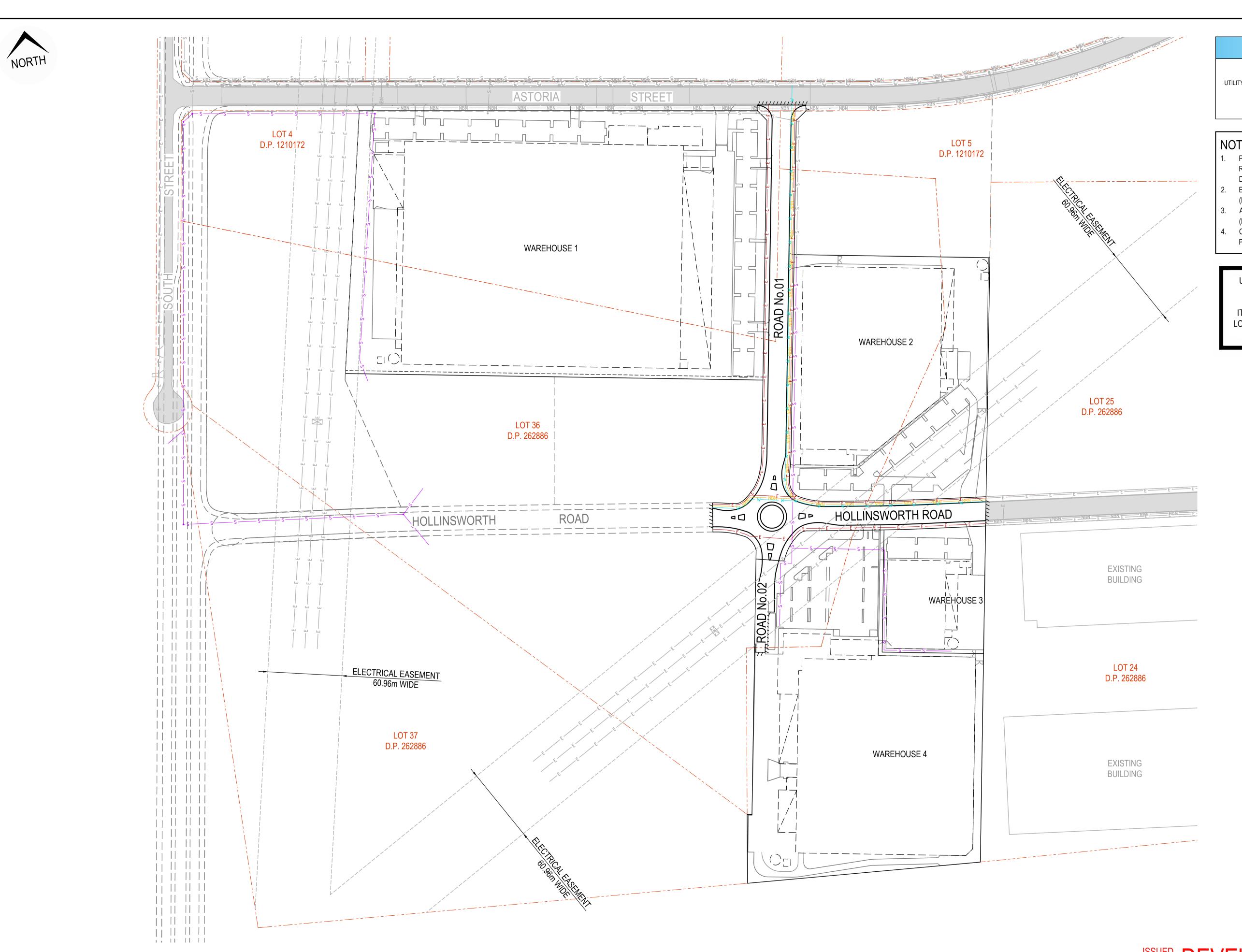
ISSUED DEVELOPMENT APPLICATION

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LEGEND EXISTING PROPOSED FUTURE UTILITY - ELECTRICITY SEWER 200 UPVC WATER

### NOTES:

- PLAN PROVIDED FOR INFORMATION PURPOSES ONLY.
  - REFER TO (CURRENT) APPROVED VERSION SERVICE PROVIDER DRAWINGS BY OTHERS
- EXISTING SERVICE INFORMATION PROVIDED BY UTILITY MAPPING (DATED: 02/03/2020)
- ADDITIONAL TELSTRA INFORMATION OBTAINED FROM DBYD (DATED: 25/06/2020)
- 4. OVERHEAD INFORMATION OBTAINED FROM SURVEY INFORMATION PROVIDED BY BLACKTOWN CITY COUNCIL (RECEIVED: 01/11/2017)

UTILITIES SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES/STANDARDS.



# FOR DEVELOPMENT APPLICATION

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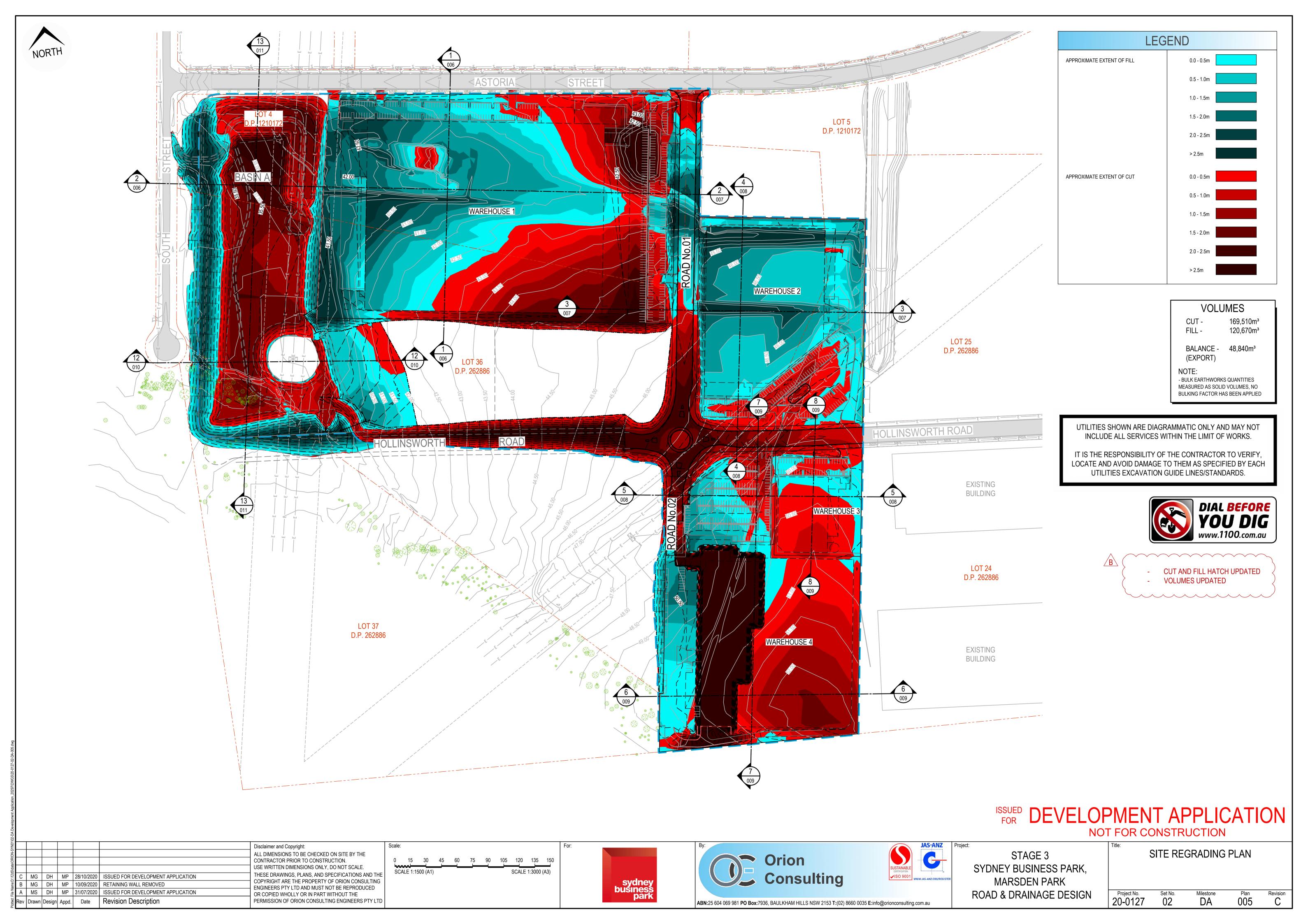


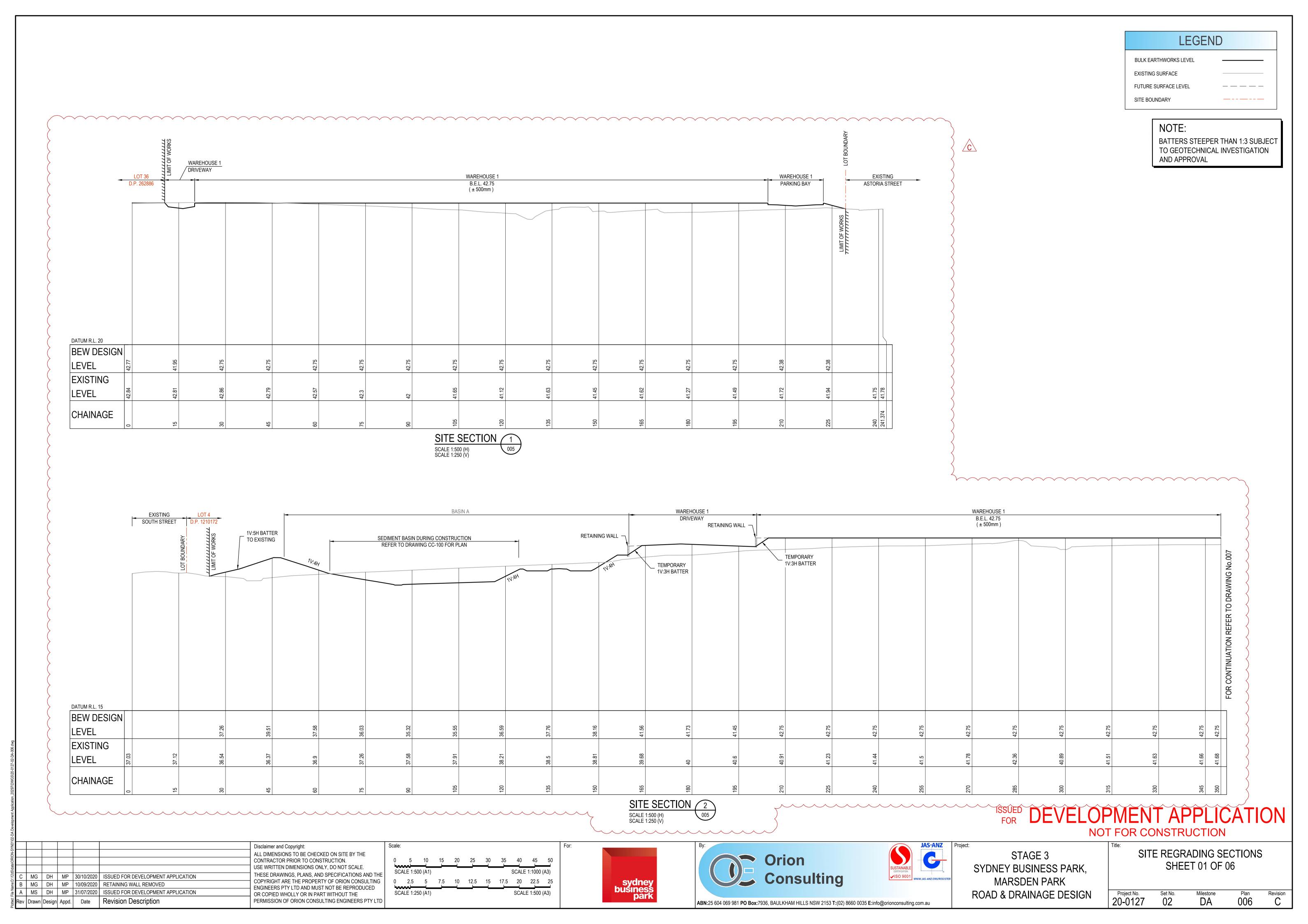




STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK **ROAD & DRAINAGE DESIGN**  COMBINED SERVICES PLAN

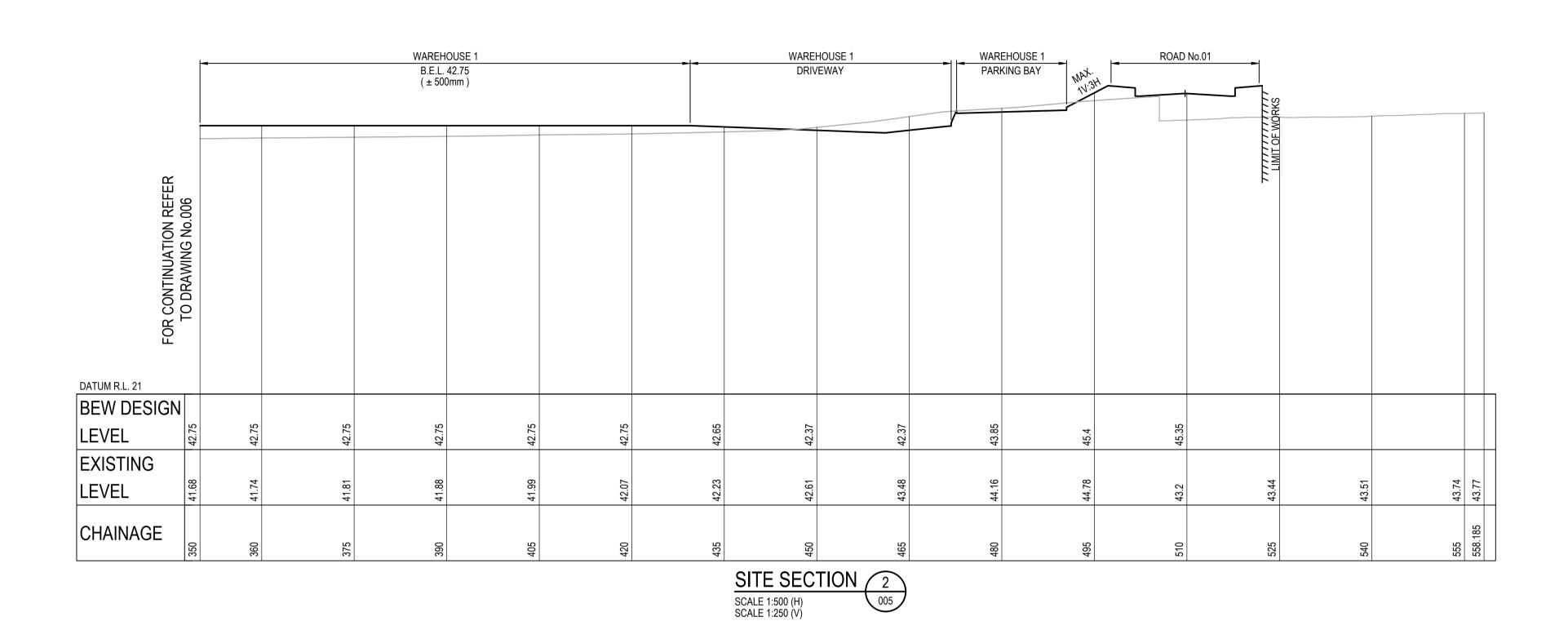
Project No. 20-0127 004





LEGEND BULK EARTHWORKS LEVEL EXISTING SURFACE FUTURE SURFACE LEVEL \_ \_ \_ \_ \_ SITE BOUNDARY \_\_\_\_\_

BATTERS STEEPER THAN 1:3 SUBJECT TO GEOTECHNICAL INVESTIGATION AND APPROVAL



2.4m HIGH ACOUSTIC WALL ON RETAINING WALL REFER TO PLAN 011 FOR -TYPICAL ACOUSTIC WALL DETAIL WAREHOUSE 1 WAREHOUSE 1 WAREHOUSE 1 ROAD No.01 WAREHOUSE 2 WAREHOUSE 2 B.E.L. 42.75 ( ± 500mm ) B.E.L. 47.5 ( ± 500mm ) DRIVEWAY PARKING BAY DRIVEWAY **TEMPORARY** FUTURE RETAINING WALL 1V:3H BATTER DATUM R.L. 22 BEW DESIGN LEVEL EXISTING LEVEL CHAINAGE

SITE SECTION 3
SCALE 1:500 (H)
SCALE 1:250 (V)

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						USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.	SCALE 1:500 (A1) SCALE 1:1000 (A3)
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В	MG	DH	MP	28/10/2020	ISSUED FOR DEVELOPMENT APPLICATION	COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED	0 2.5 5 7.5 10 12.5 15 17.5 20 22.5 25
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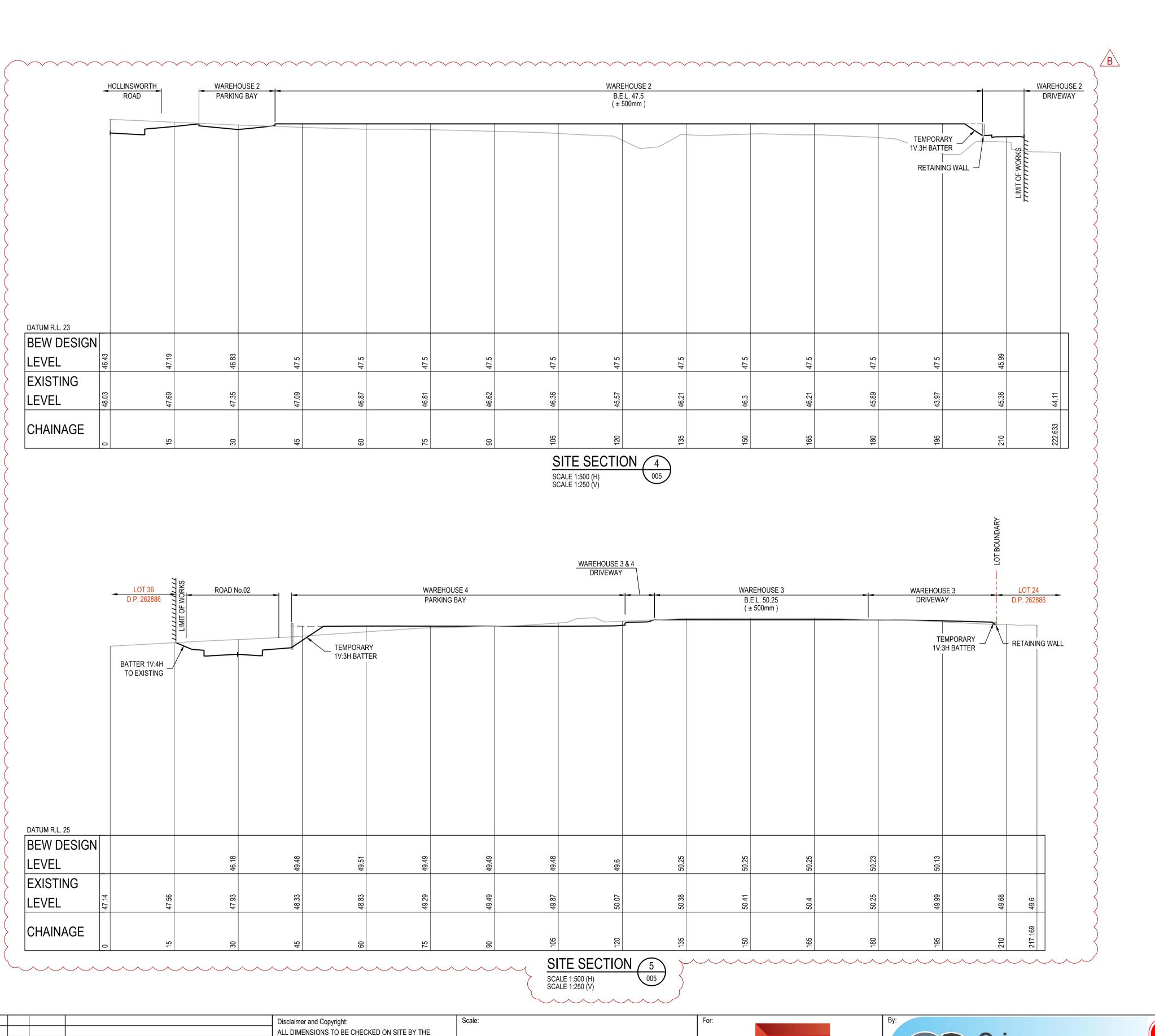






STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK **ROAD & DRAINAGE DESIGN**  SITE REGRADING SECTIONS SHEET 02 OF 06

Project No.	Set No.	Milestone	Plan	Revisi
20-0127	02	DA	007	C



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B MG DH MP 28/10/2020 ISSUED FOR DEVELOPMENT APPLICATION
A MS DH MP 31/07/2020 ISSUED FOR DEVELOPMENT APPLICATION

Revision Description

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BULK EARTHWORKS LEVEL

EXISTING SURFACE

FUTURE SURFACE LEVEL

SITE BOUNDARY

NOTE:

BATTERS STEEPER THAN 1:3 SUBJECT TO GEOTECHNICAL INVESTIGATION AND APPROVAL

# FOR DEVELOPMENT APPLICATION

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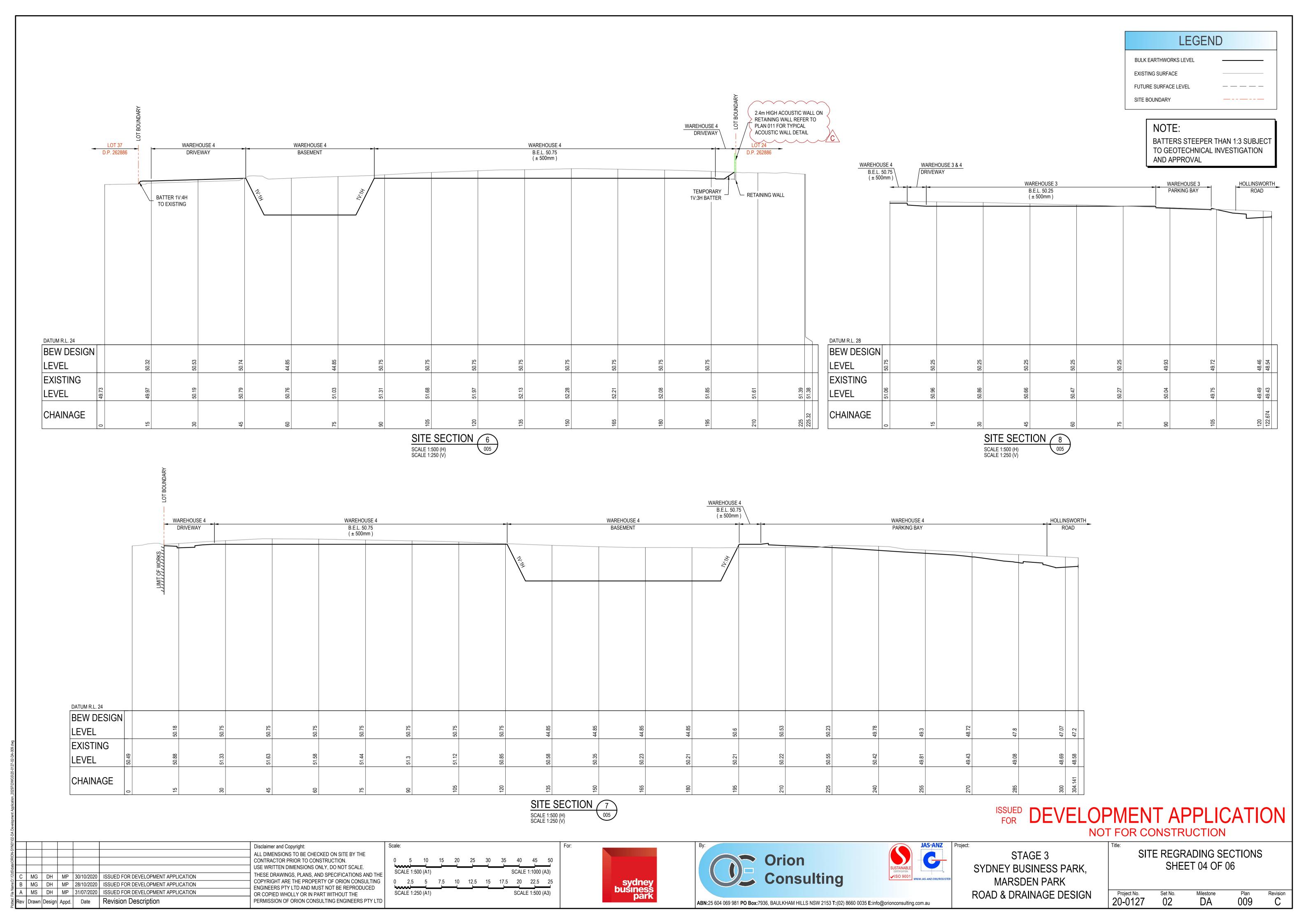
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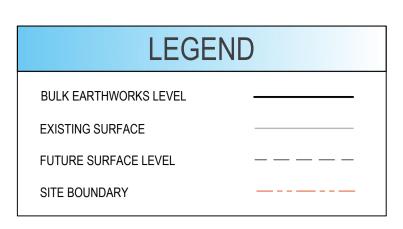


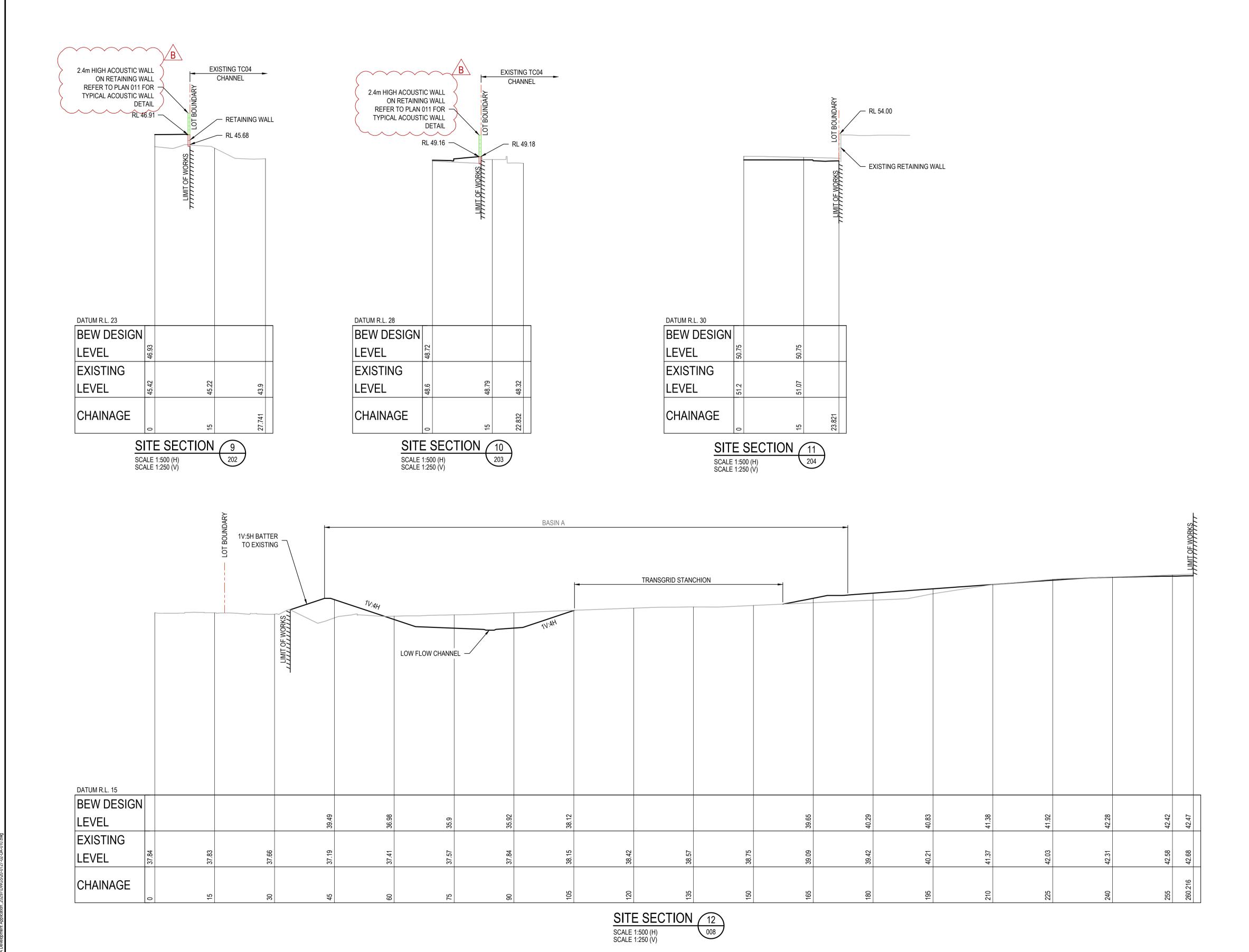
STAGE 3
SYDNEY BUSINESS PARK,
MARSDEN PARK
ROAD & DRAINAGE DESIGN

SITE REGRADING SECTIONS
SHEET 03 OF 06

Project No. Set No. Milestone Plan Revis 20-0127 02 DA 008 E







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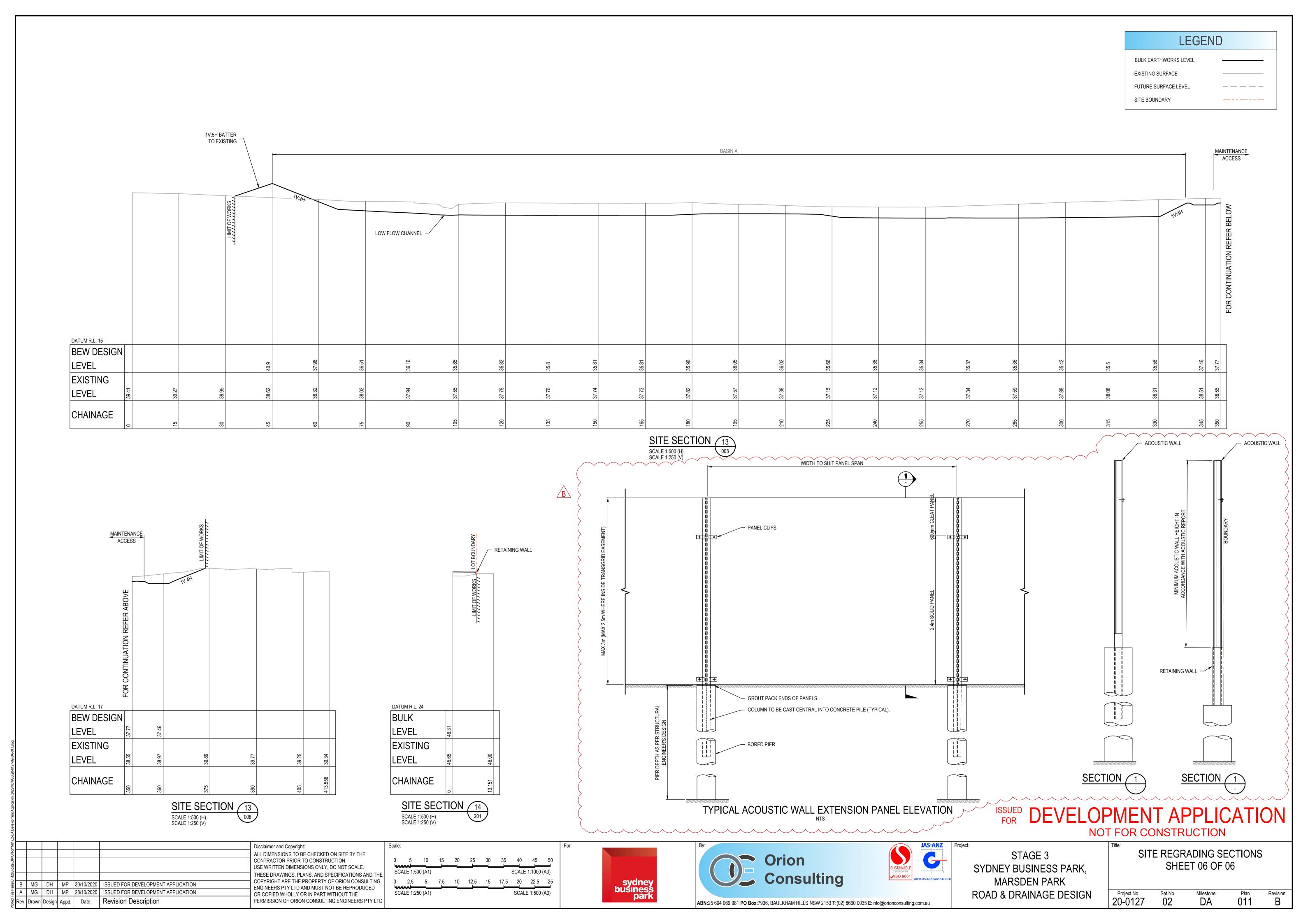
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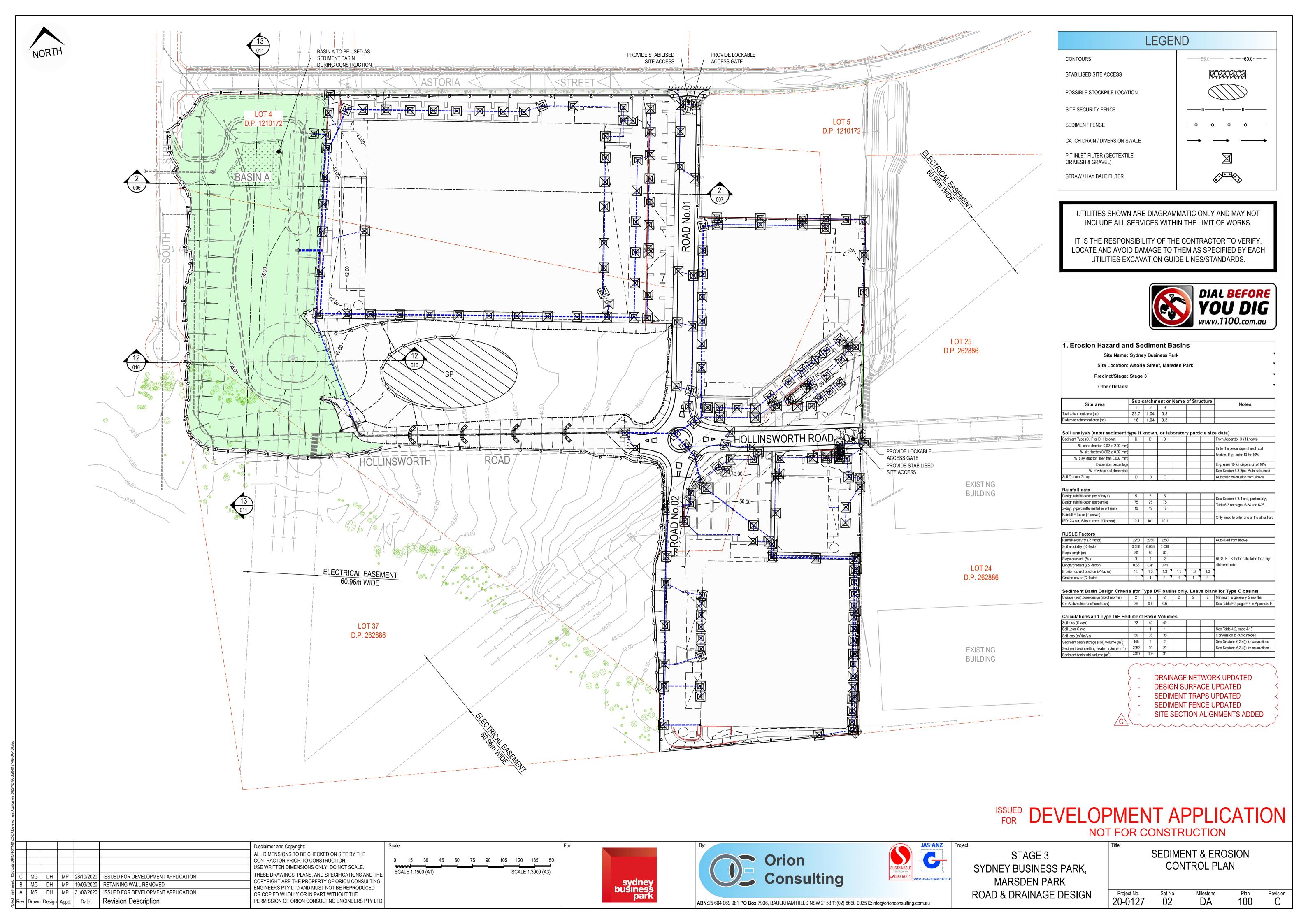




SITE REGRADING SECTIONS SHEET 05 OF 06

Project No.	Set No.	Milestone	Plan	Revisio
20-0127	02	DA	010	В





### **GENERAL NOTES:**

- I. ALL EROSION AND SEDIMENT CONTROL MEASURES. INCLUDING REVEGETATION AND STORAGE OF SOIL AND TOPSOIL. SHALL BE IMPLEMENTED TO THE REQUIREMENTS OF THE "ENVIRONMENT PROTECTION AUTHORITY".AND "DEPT OF LAND AND WATER CONSERVATION". MEASURES OUTLINED IN THE SEDIMENT & EROSION CONTROL PLAN MUST BE IMPLEMENTED PRIOR TO AND MAINTAINED DURING AND AFTER THE CONSTRUCTION WORKS.
- 2. TOPSOIL FROM ALL AREAS TO BE DISTURBED SHALL BE STOCKPILED AND LATER RESPREAD TO AID REVEGETATION IN THOSE AREAS.
- ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILIZED AS EARLY AS POSSIBLE DURING DEVELOPMENT.
- 4. ALL TAIL-OUT DRAINS SHALL BE GRASSED AND TRAPEZOIDAL IN SECTION. STRAW BALES SHALL BE PLACED AS A SEDIMENT CONTROL DEVICE WHERE REQUIRED.
- . VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING DEVELOPMENT CONFINING ACCESS WHERE POSSIBLE TO PROPOSED OR EXISTING ROAD ALIGNMENTS. AREAS TO BE LEFT UNDISTURBED SHALL BE MARKED OFF.
- 6. DISTURBANCE OF VEGETATION SHALL BE LIMITED TO FILL AREAS, ROADWAYS AND DRAINAGE LINES. NO LOT GRADING SHALL BE CARRIED OUT IN UNDISTURBED AREAS WITHOUT CONSULTATION WITH COUNCIL'S ENGINEER.
- ALL DISTURBED AREAS SHALL BE REVEGETATED WITHIN 14 WORKING DAYS
- FROM THE CONCLUSION OF LAND SHAPING. MINIMISE DUST BY WATERING WHEN REQUIRED

### STOCKPILE NOTES:

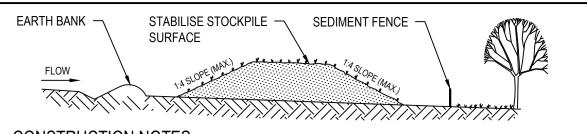
- 9. SPOIL AND TOPSOIL STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES AND AREAS WHERE WATER MAY CONCENTRATE.
- 10. IF STOCKPILES ARE TO BE IN PLACE FOR LONGER THAN 14 DAYS THEN THEY SHALL BE STABILIZED BY COVERING WITH A MULCH OR WITH TEMPORARY
- 11. FOLLOWING CONSTRUCTION, TOPSOIL SHALL BE RESPREAD TO A MINIMUM DEPTH OF 100mm ON THE BARE SOIL SURFACES AND REVEGETATE.
- 12. ALL STOCKPILES TO BE (MAX) 2m HIGH AND PROTECTED WITH SILT FENCE.

### **SPECIAL NOTES:**

- 13. LOCATION AND EXTENT OF SOIL AND WATER MANAGEMENT DEVICES IS DIAGRAMMATIC ONLY AND THE ACTUAL REQUIREMENTS SHALL BE CONFIRMED ON SITE.
- 14. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE GUIDELINES SET OUT IN "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION " -4TH EDITION AND THE ACCOMPANYING ROAD AND DRAINAGE PLANS.
- CONFORMITY WITH THIS PLAN SHALL IN NO WAY REDUCE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AGAINST WATER DAMAGE DURING THE COURSE OF THE CONTRACT.
- MANAGEMENT DEVICES SHALL BE MAINTAINED ON A REGULAR BASIS. WHERE CLEANING IS REQUIRED, THE SEDIMENT SHALL BE REMOVED TO A POINT NOMINATED BY THE ENGINEER.
- 17. PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS, AND AFTER THE ROAD CENTRELINES HAVE BEEN PEGGED AND/OR PERMANENTLY MARKED, THE SITE MUST BE INSPECTED BY COUNCIL'S REPRESENTATIVE AND THE APPLICANT'S REPRESENTATIVE TO IDENTIFY AND APPROPRIATELY
- a) THE TREES TO BE RETAINED. b) ALL TREES TO BE LEFT UNDISTURBED AND TO BE CORDONED OFF.
- 18. NO TREES SHALL BE REMOVED WITHOUT COUNCIL'S CLEARANCE.
- 19. MANAGEMENT DEVICES TO REMAIN UNTIL THE END OF THE MAINTENANCE PERIOD.

### SEDIMENTATION CONTROL DEVICES:

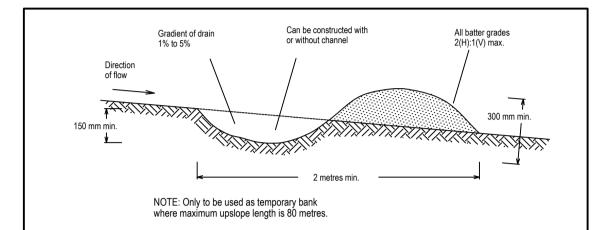
- 20. ALL STRAW BALES SHALL BE BOUND WITH WIRE. STRAW BALES SHALL BE PLACED END TO END IN A SINGLE ROW AND EMBEDDED INTO THE SOIL TO A DEPTH OF 100mm. EACH BALE SHALL BE SECURELY ANCHORED WITH TWO STEEL STAKES DRIVEN 450mm INTO THE GROUND AND LOCATED ON THE BALE CENTRE LINE.
- 21. SILT FENCES SHALL BE CONSTRUCTED BY STRETCHING A FILTER FABRIC (PROPEX OR SIMILAR) BETWEEN POSTS AT 2m (3m MAX) CENTRES. FABRIC SHALL BE BURIED 150mm ALONG ITS LOWER EDGE.



#### **CONSTRUCTION NOTES:**

- 1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION,
- CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
- CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS  $3.\ \ \$  Where there is sufficient area. Topsoil stockpiles shall be less than 2 metres in Height
- 4. ALL STOCKPILES ARE TO BE LOCATED AND PLACED IN ACCORDANCE WITH THE CONTRACTOR'S EROSION AND SEDIMENT CONTROL PLAN.
- 5. WHERE STOCKPILES ARE TEMPORARY (<14 DAYS) NO STABILISATION IS REQUIRED. REVIEW THE ADEQUACY OF SEDIMENT CONTROLS IF RAINFALL IS PREDICTED.
- 6. WHERE STOCKPILES ARE TEMPORARY (<14 DAYS) THE FOLLOWING ADDITIONAL CONTROLS ARE
- -MAXIMUM BATTER SLOPE REDUCED TO 1:4 -CONSTRUCT A CONTOUR DRAIN ON THE LOW SIDE OF THE STOCKPILE, AND DISCHARGING THROUGH
- A STRAW BALE OR 200mm HIGH GRAVEL DAM -ESTABLISH GRASS COVER TO SURFACE OF STOCKPILE WITHIN 14 DAYS, USING HYDROMULCH WITH A 75:25 MIX OF SEASONAL AND PERMANENT GRASS SEEDS, AND A STRAW MULCH THICKNESS OF NO
- CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE.

### **STOCKPILES**



Scale:

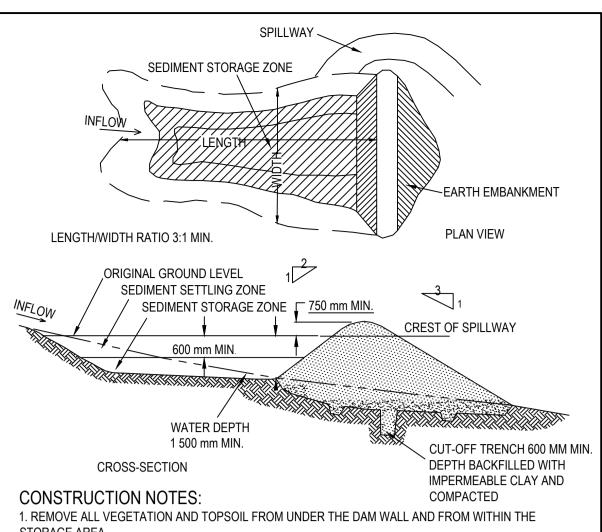
#### Construction Notes

- 1. Build with gradients between 1 percent and 5 percent
- 2. Avoid removing trees and shrubs if possible work around them. 3. Ensure the structures are free of projections or other irregularities that could impede water flow.
- 4. Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.
- 5. Ensure the banks are properly compacted to prevent failure.

6. Complete permanent or temporary stabilisation within 10 days of construction.

EARTH BANK (LOW FLOW)

SD 5-5



2. CONSTRUCT A CUT-OFF TRENCH 500 MM DEEP AND 1,200 MM WIDE ALONG THE CENTRELINE OF THE EMBANKMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST. 3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT AS SPECIFIED IN THE SWMP TO 95 PER CENT STANDARD PROCTOR DENSITY.

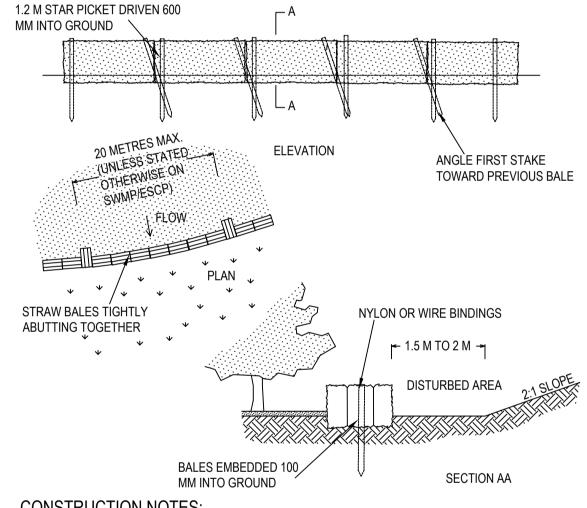
4. SELECT FILL FOLLOWING THE SWMP THAT IS FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR 5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100 MM TO HELP BOND

COMPACTED FILL TO THE EXISTING SUBSTRATE 6. SPREAD THE FILL IN 100 MM TO 150 MM LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT FOLLOWING THE SWMP.

7. CONSTRUCT THE EMERGENCY SPILLWAY. 8. REHABILITATE THE STRUCTURE FOLLOWING THE SWMP

### EARTH BASIN - WET

(APPLIES TO 'TYPE D' AND 'TYPE F' SOILS ONLY)



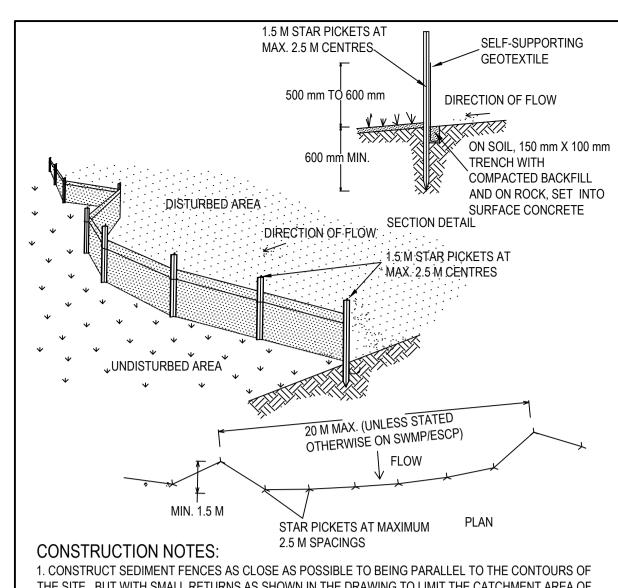
### **CONSTRUCTION NOTES:**

STRAW BALE FILTER

- 1. CONSTRUCT THE STRAW BALE FILTER AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE.
- 2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS
- BETWEEN BALES. STRAWS ARE TO BE PLACED PARALLEL TO GROUND. 3. ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE.
- 4. EMBED EACH BALE IN THE GROUND 75 mm TO 100 mm AND ANCHOR WITH TWO 1.2 METRE STAR PICKETS OR STAKES. ANGLE THE FIRST STAR PICKET OR STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE.DRIVE THEM 600 mm INTO THE GROUND AND, IF POSSIBLE, FLUSH WITH THE TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY PROTRUDE ABOVE THE BALES, ENSURE THEY ARE FITTED WITH SAFETY CAPS.
- 5. WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER, ENSURE THE BALES ARE PLACED 1 TO 2 METRES DOWNSLOPE FROM THE TOE.
- 6. ESTABLISH A MAINTENANCE PROGRAM THAT ENSURES THE INTEGRITY OF THE BALES IS RETAINED -

THEY COULD REQUIRE REPLACEMENT EACH TWO TO FOUR MONTHS.

SD 6-7



THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE

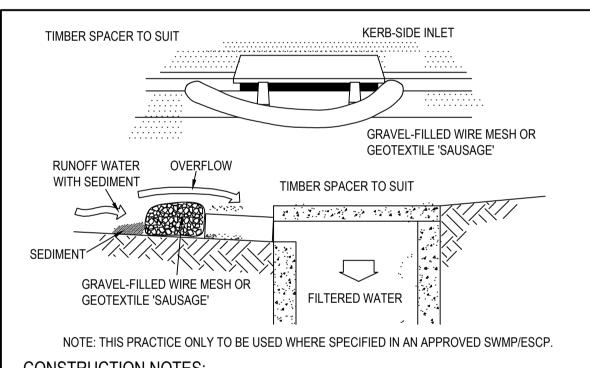
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE

3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5m INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH, ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS. 4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE

OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY. 5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAF 6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE

### SEDIMENT FENCE

SD 6-8

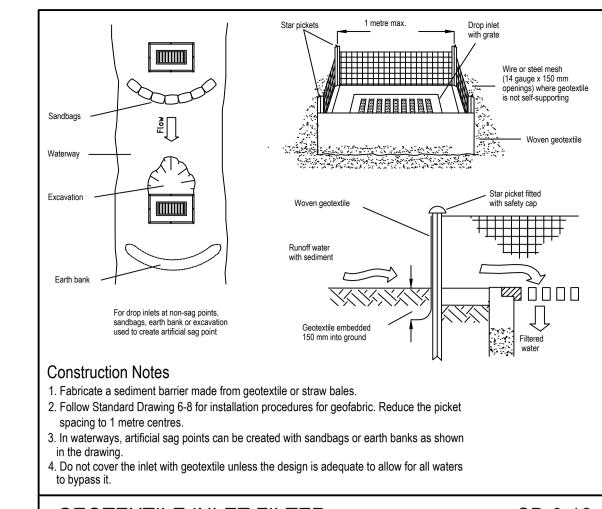


### CONSTRUCTION NOTES:

- 1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS. 2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE
- INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
- 3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH X 400mm WIDE. 4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB
- INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
- 5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
- 6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT
- PASS BETWEEN.

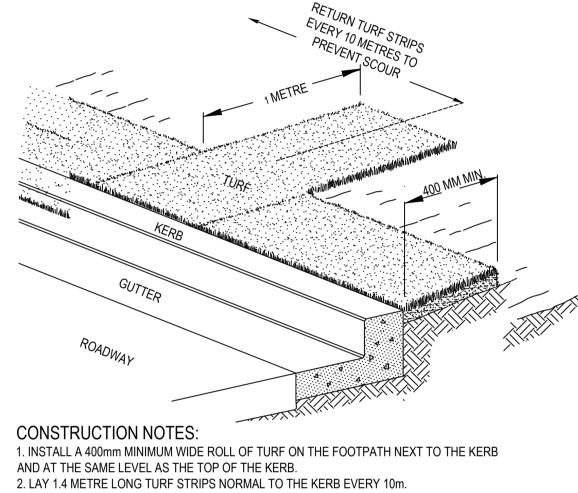
### MESH AND GRAVEL INLET FILTER

SD 6-11



GEOTEXTILE INLET FILTER

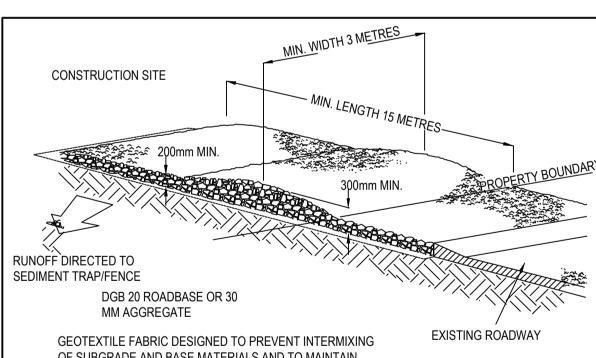
SD 6-12



3. REHABILITATE DISTURBED SOIL BEHIND THE TURF STRIP FOLLOWING THE ESCP/SWMP.

### KERBSIDE TURF STRIP

SD 6-13



OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE LAYERS. GEOFABRIC MAY BE A WOVEN OR NEEDLE-PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF 2500 N

**CONSTRUCTION NOTES:** 

1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE. 2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE. 3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE. 4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST

5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE

STABILISED SITE ACCESS

SD 6-14

# ISSUED DEVELOPMENT APPLICATION

NOT FOR CONSTRUCTION

SEDIMENT & EROSION **CONTROL NOTES** & DETAILS

20-0127

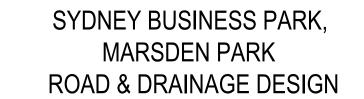
A | MS | DH | MP | 31/07/2020 | ISSUED FOR DEVELOPMENT APPLICATION ev Drawn Design Appd. Date

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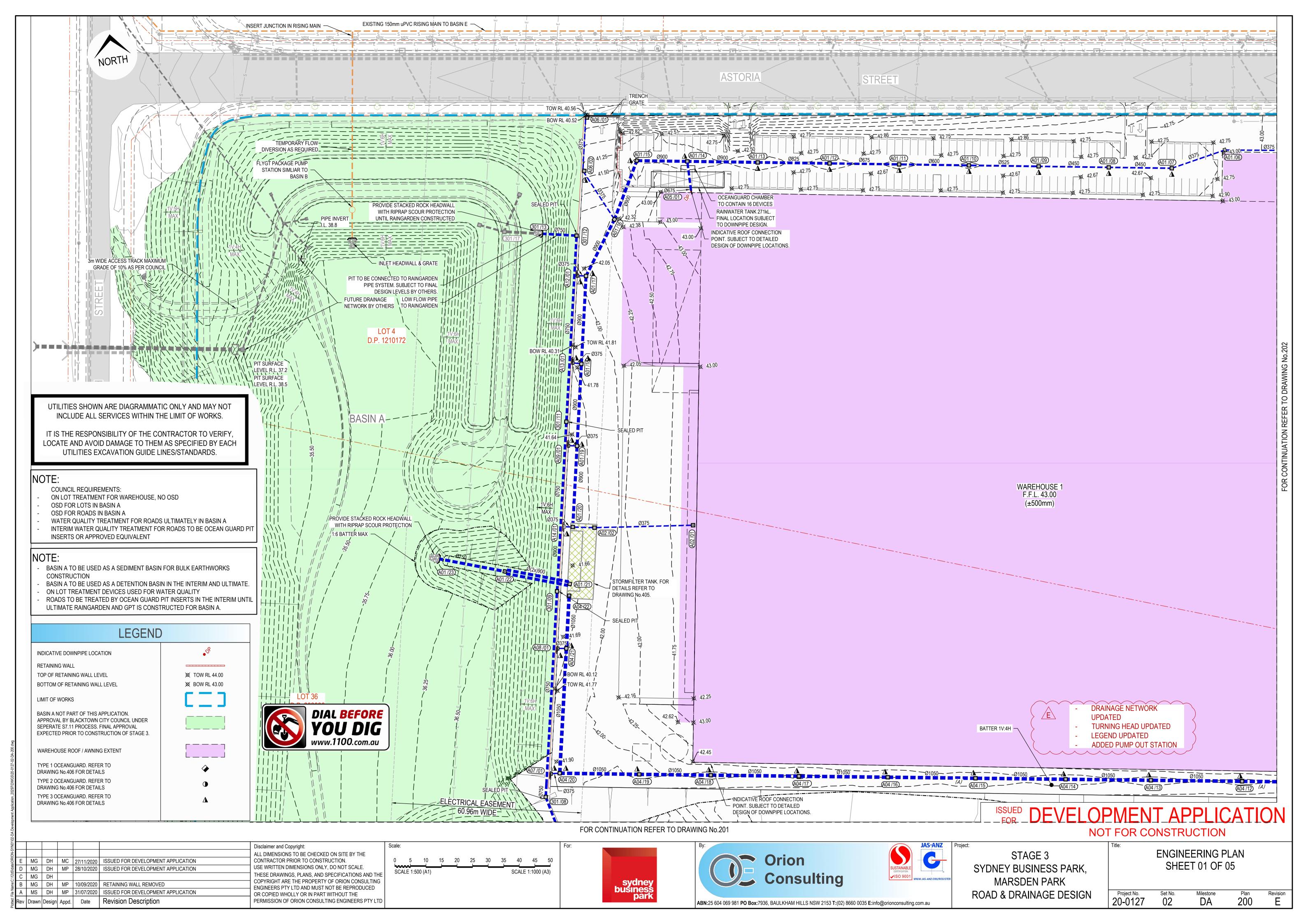
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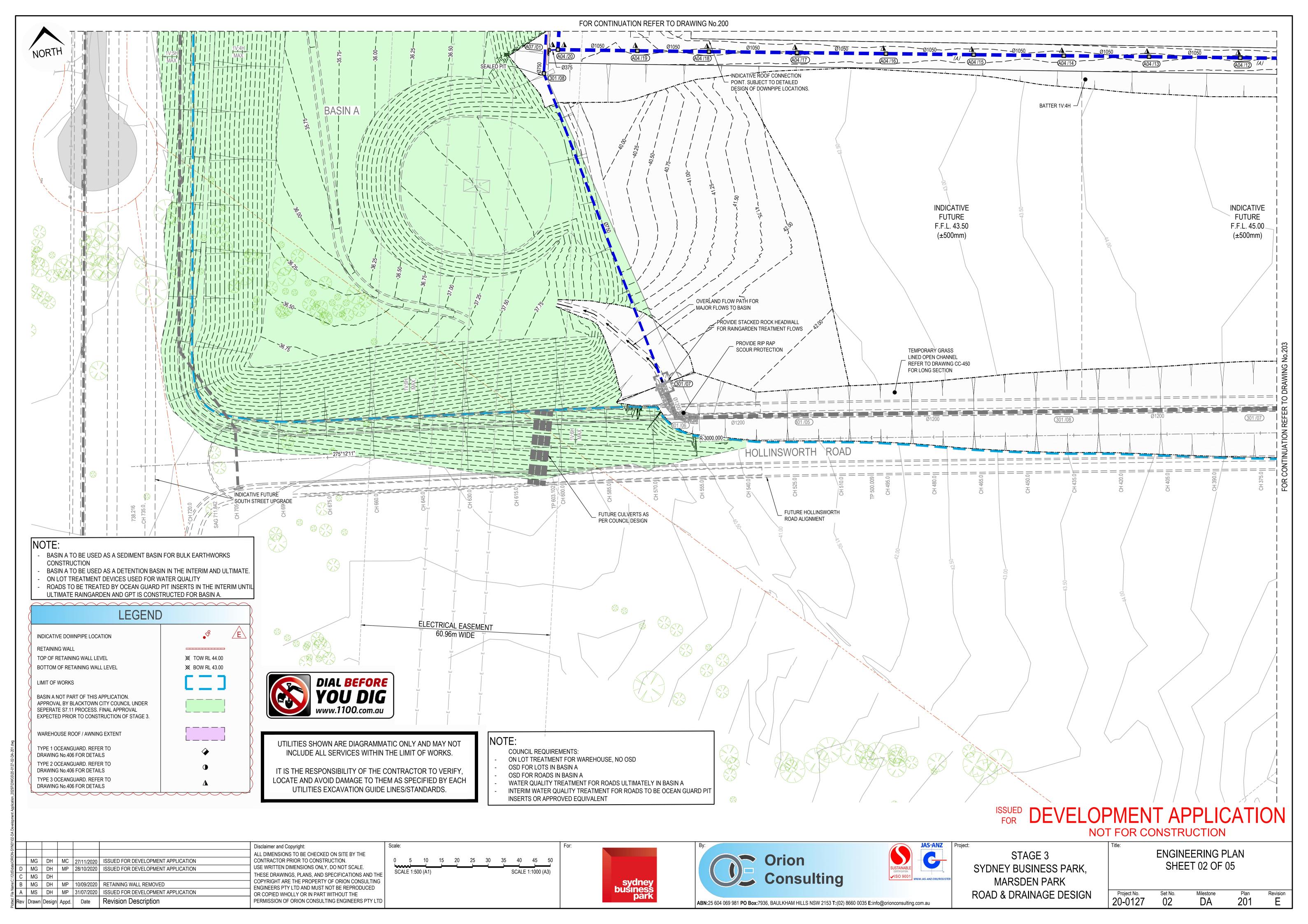
sydney business park

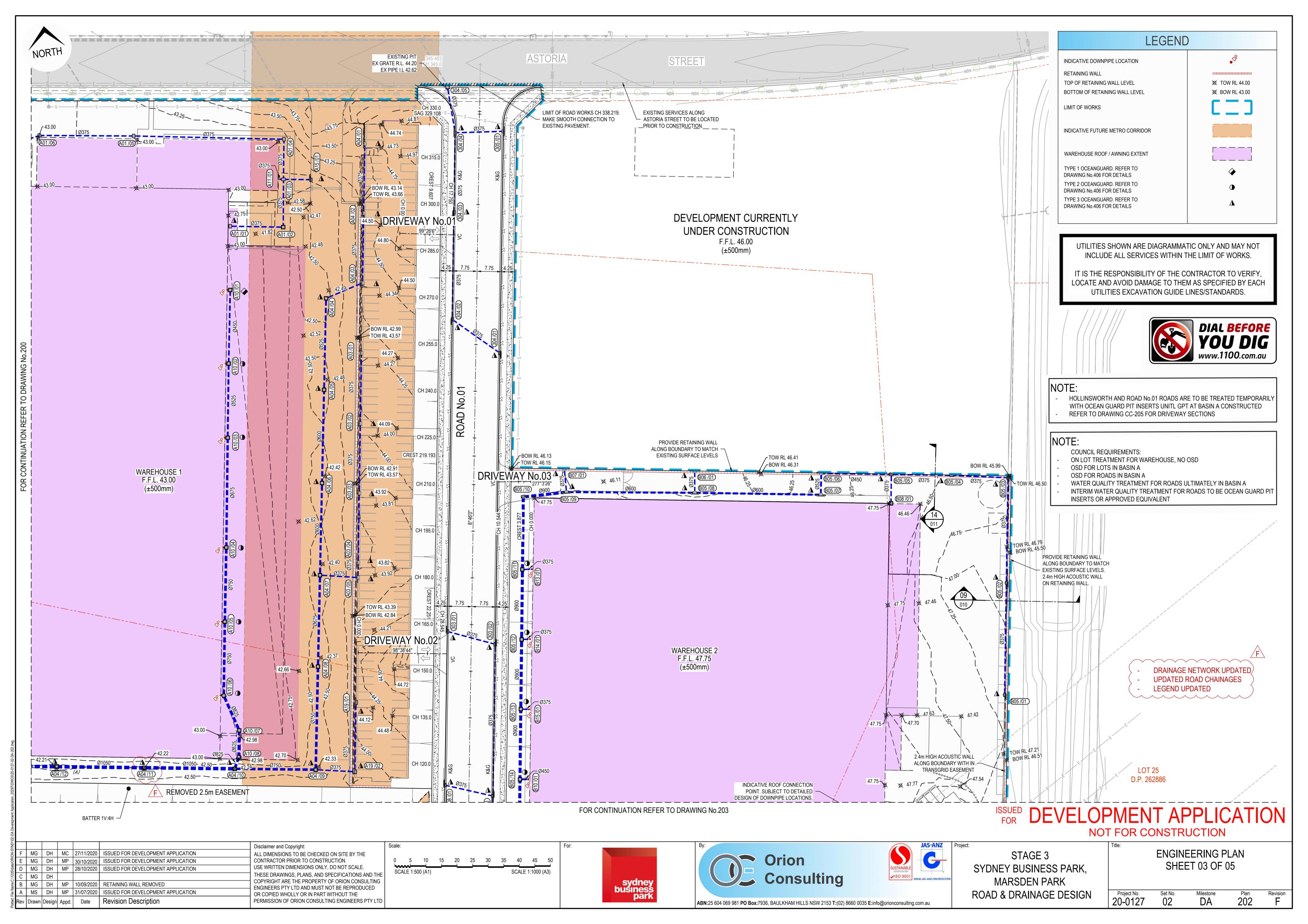


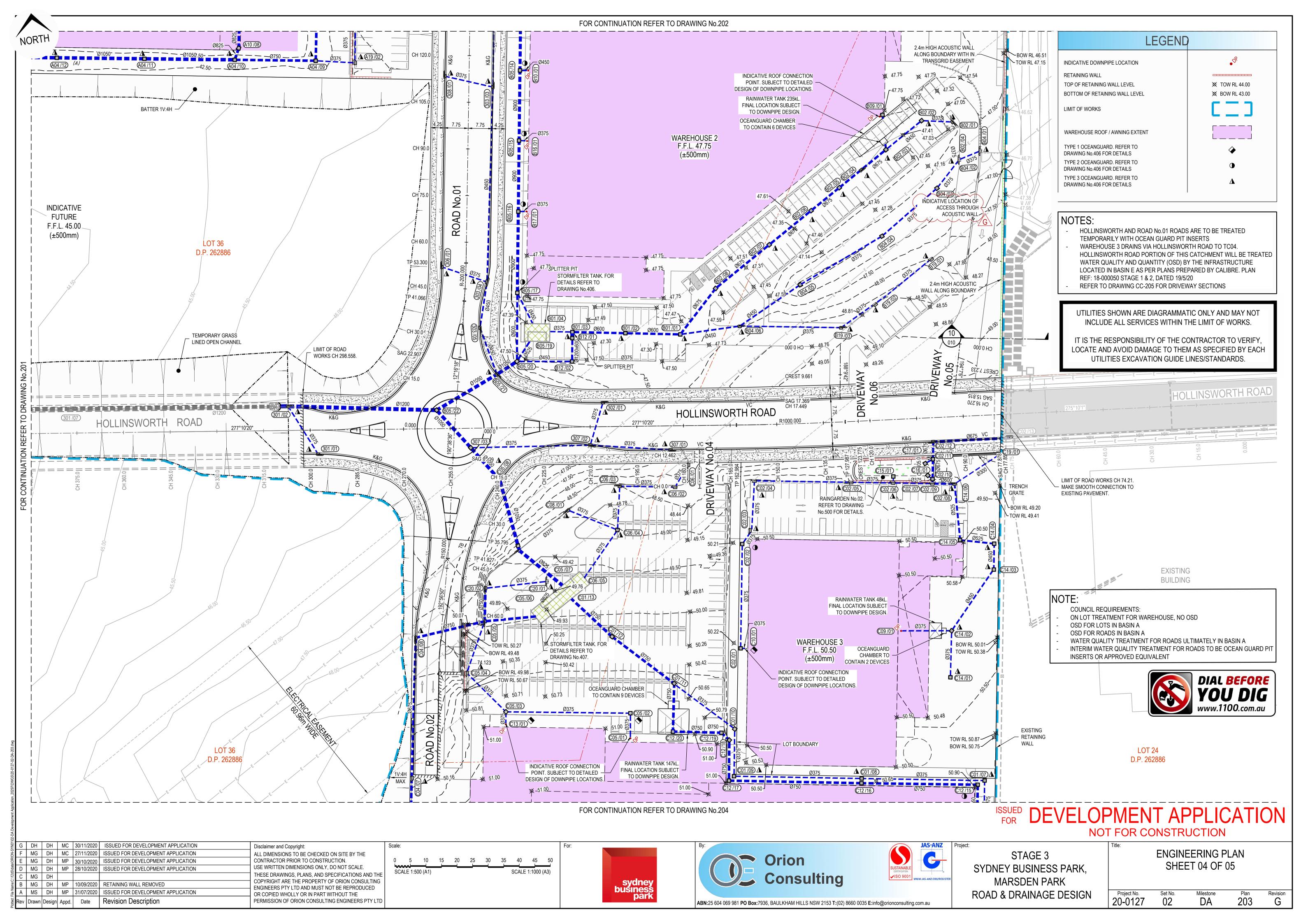


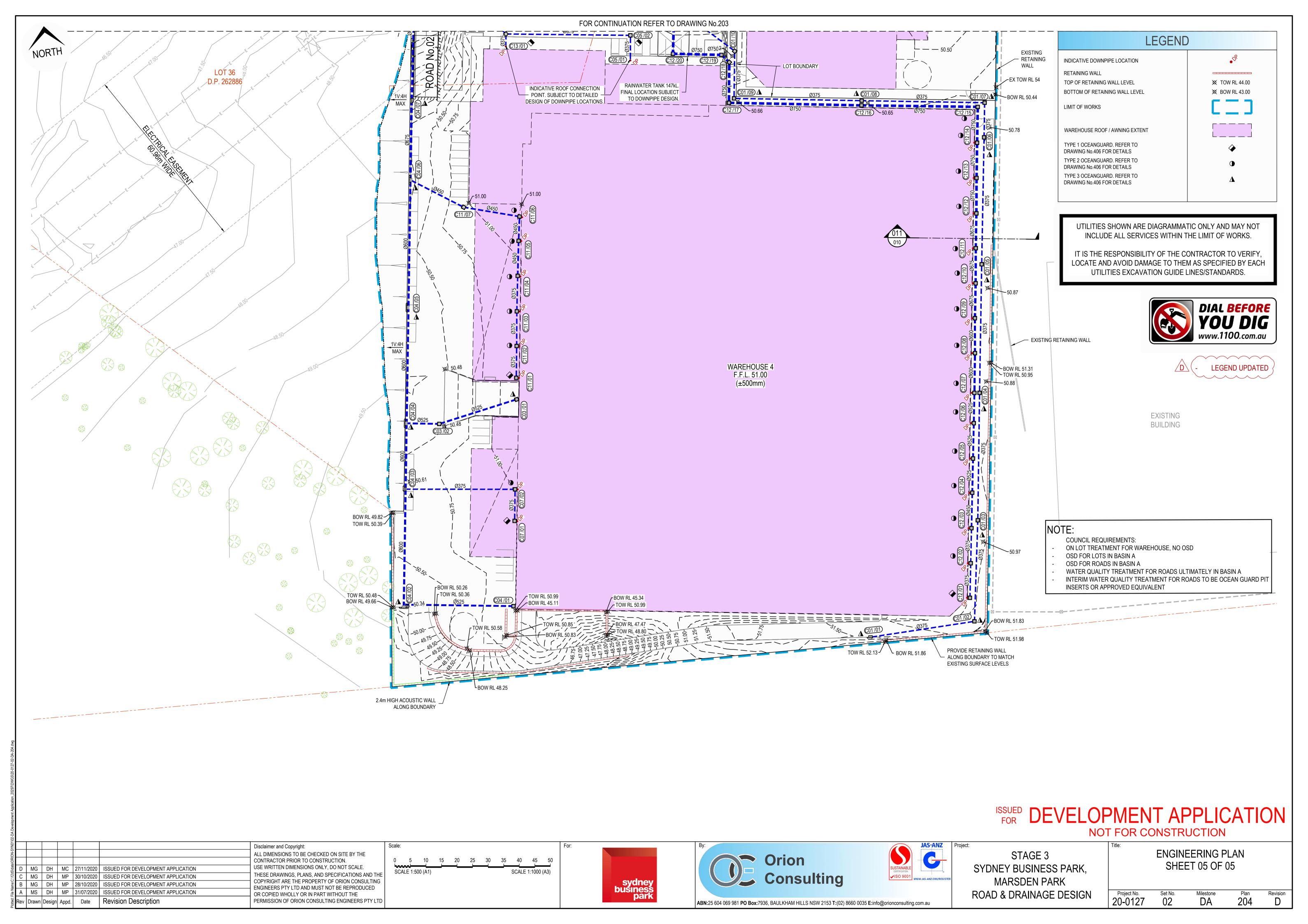
STAGE 3

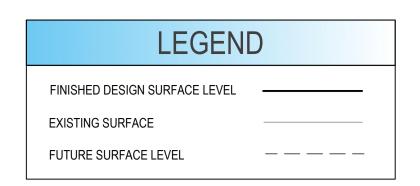


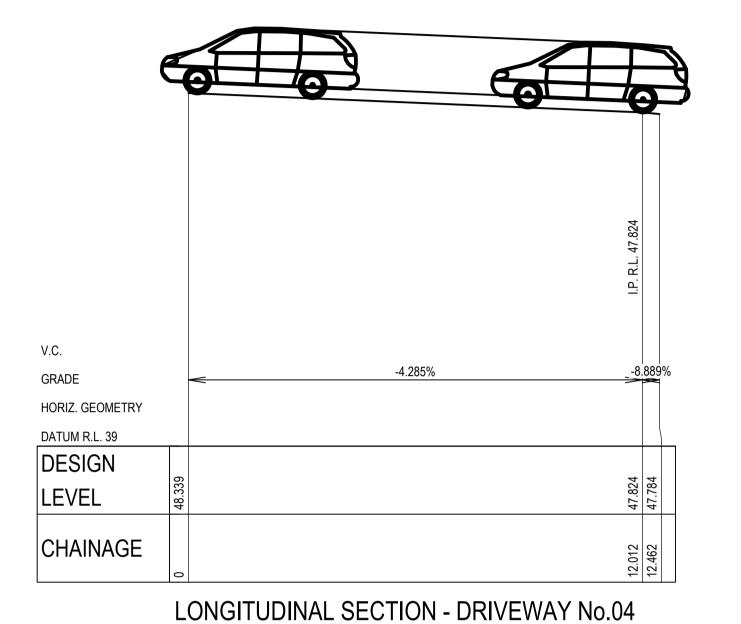






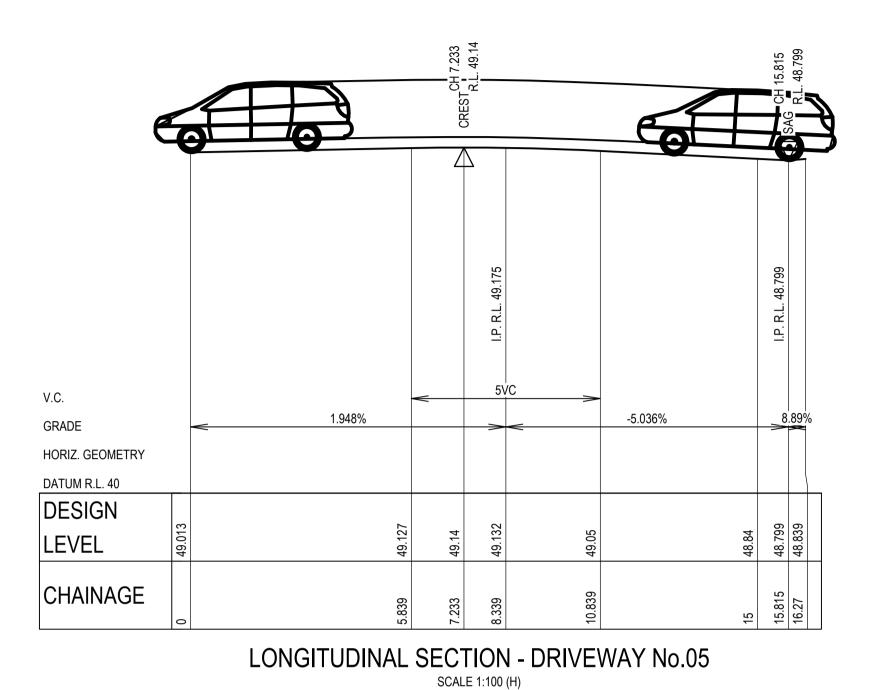




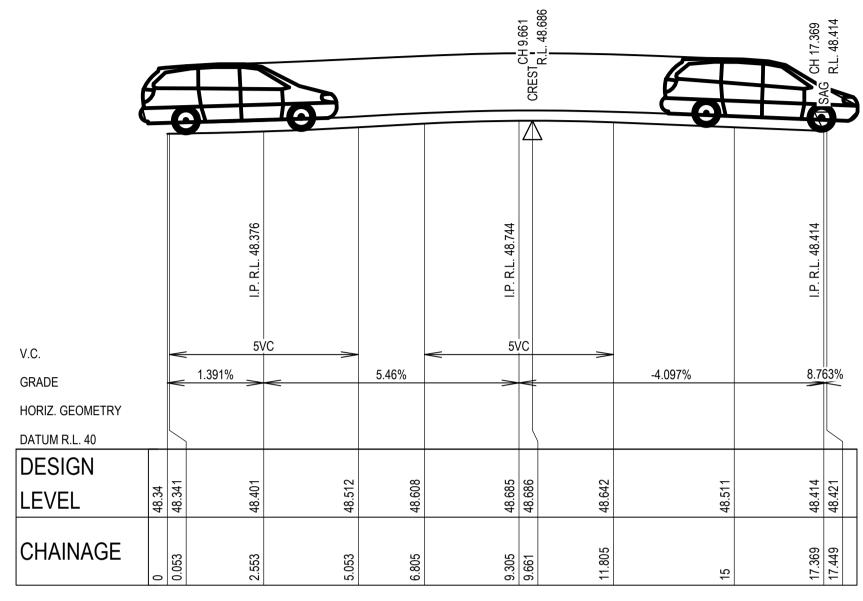


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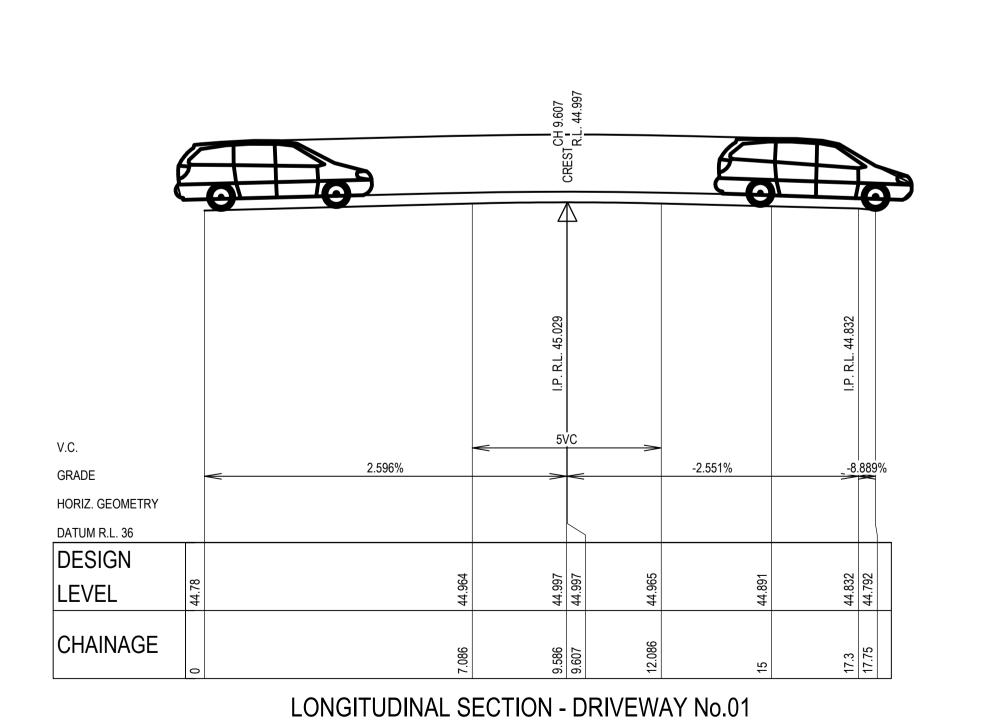


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LONGITUDINAL SECTION - DRIVEWAY No.06

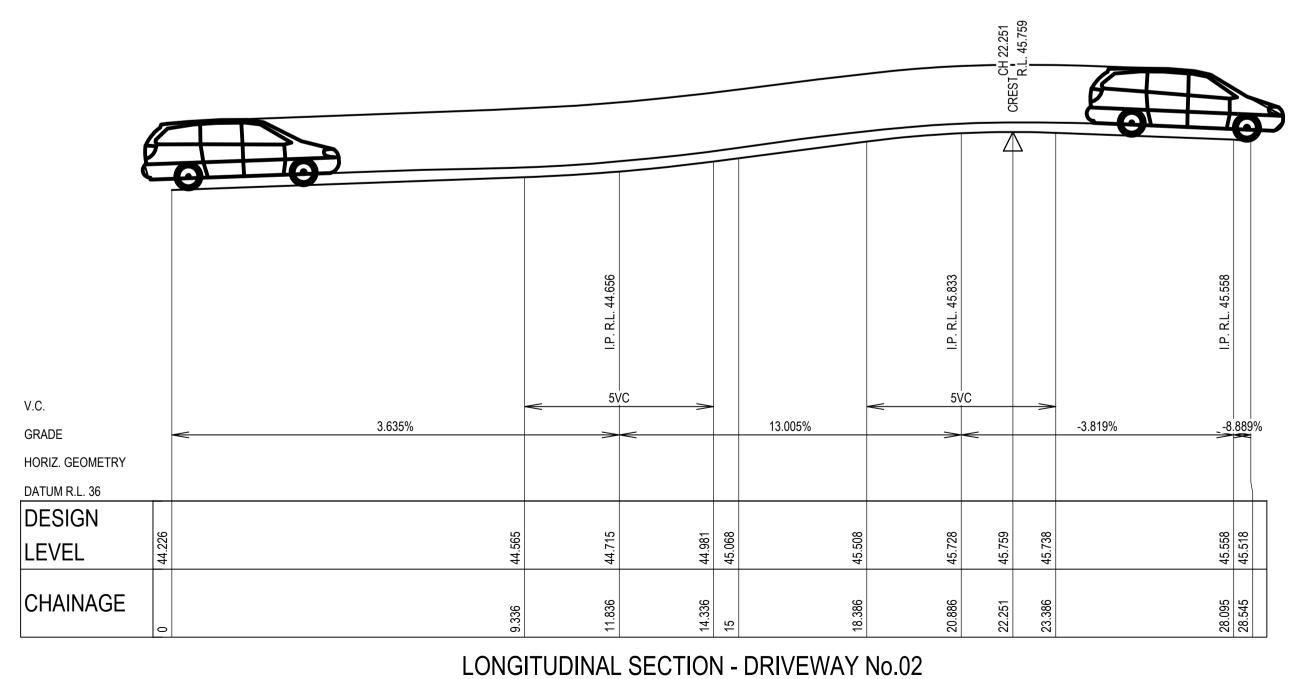
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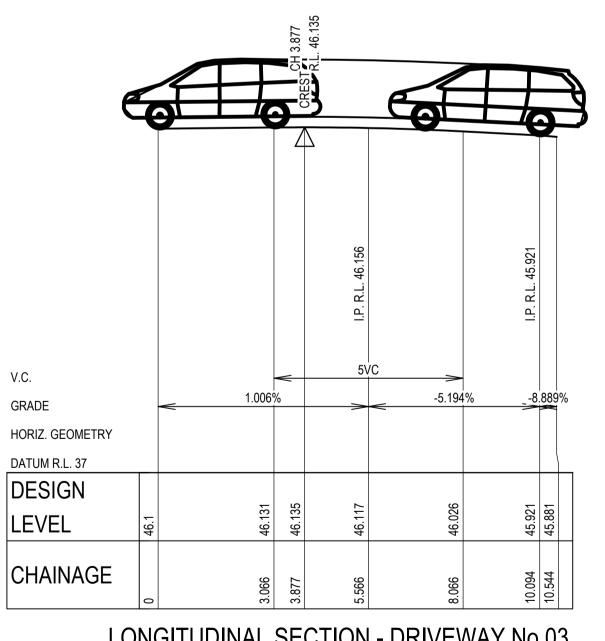


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SCALE 1:100 (V)

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LONGITUDINAL SECTION - DRIVEWAY No.03

SCALE 1:100 (H)

SCALE 1:100 (V)

# FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION

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SCALE 1:100 (V)

Project:

STAGE 3
SYDNEY BUSINESS PARK

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STAGE 3
SYDNEY BUSINESS PARK,
MARSDEN PARK
ROAD & DRAINAGE DESIGN

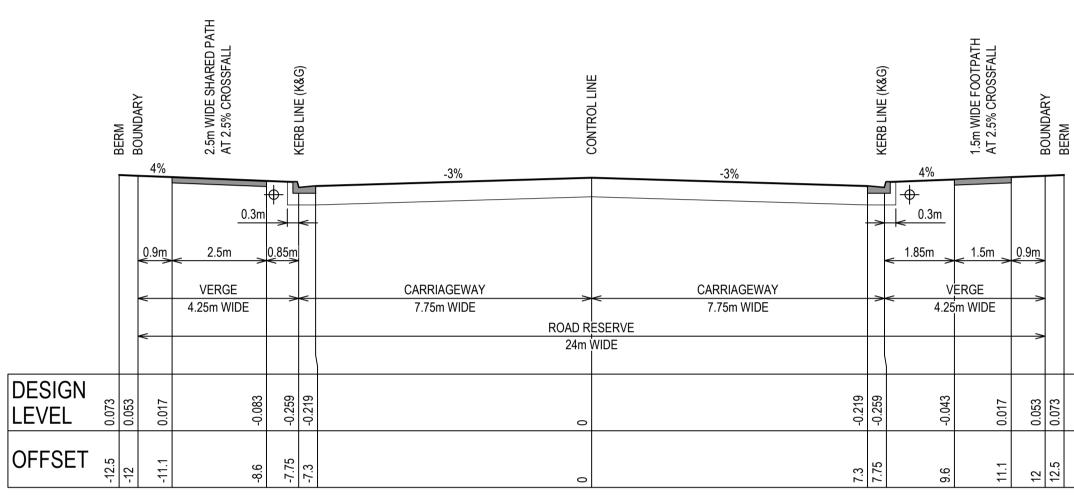
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Project No. 20-0127	Set No.	Milestone DA	Plan 205	Revision		

LEGEND

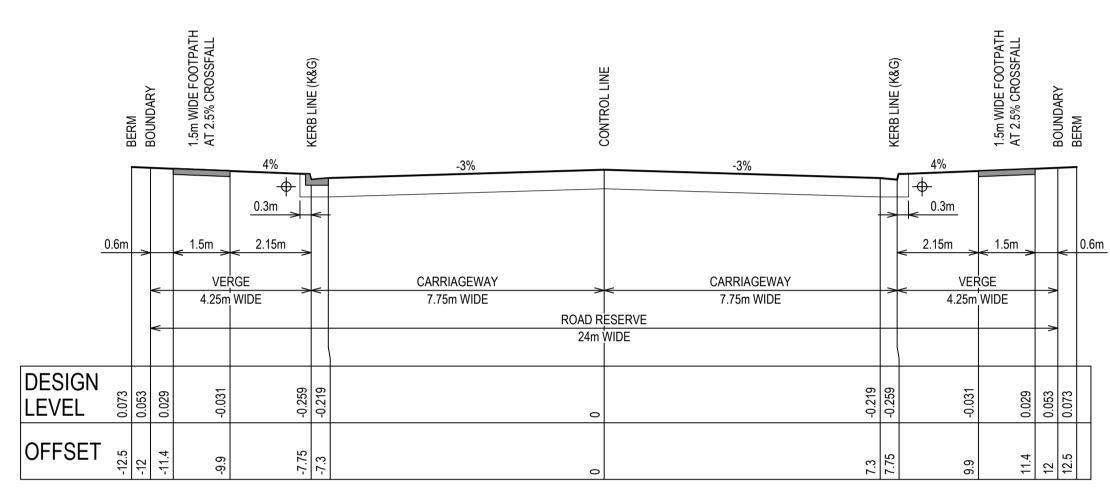
SUBSOIL DRAIN TO BE LAID BELOW ALL KERBS WHERE NO STORMWATER PIPE IS SHOWN

NOTE:

- FOOTPATH AND KERBS TO BE CONSTRUCTED TO BLACKTOWN CITY COUNCIL STANDARDS



TYPICAL CROSS SECTION - HOLLINSWORTH ROAD SCALE 1:100



TYPICAL CROSS SECTION - ROAD No.01 & 02 SCALE 1:100

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SCALE 1:100 (A1) SCALE 1:200 (A3)



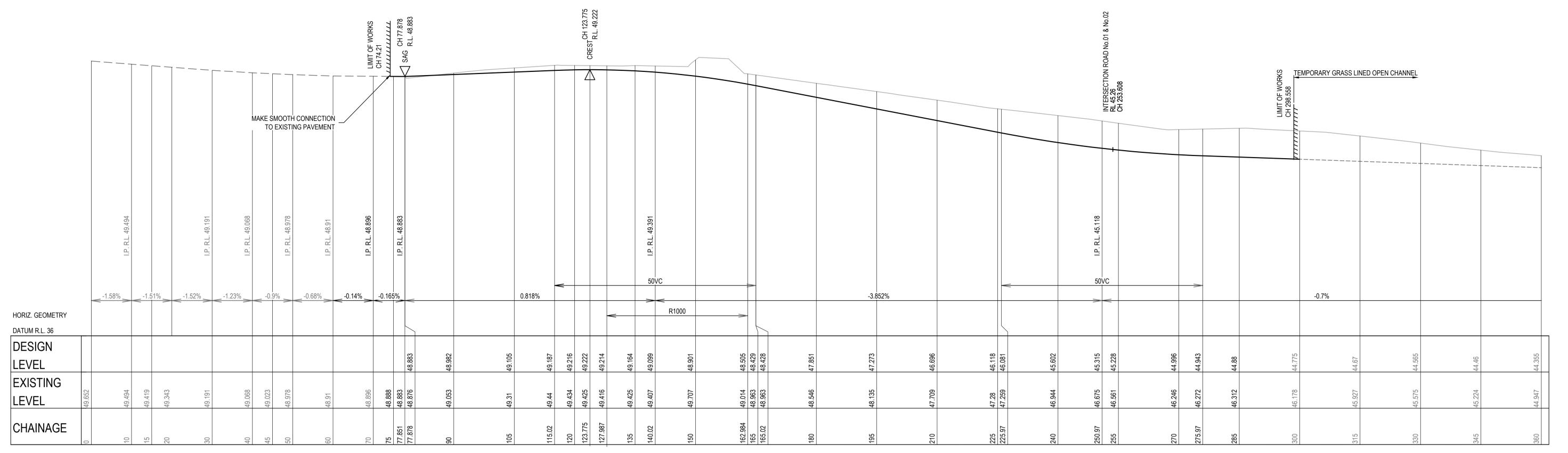




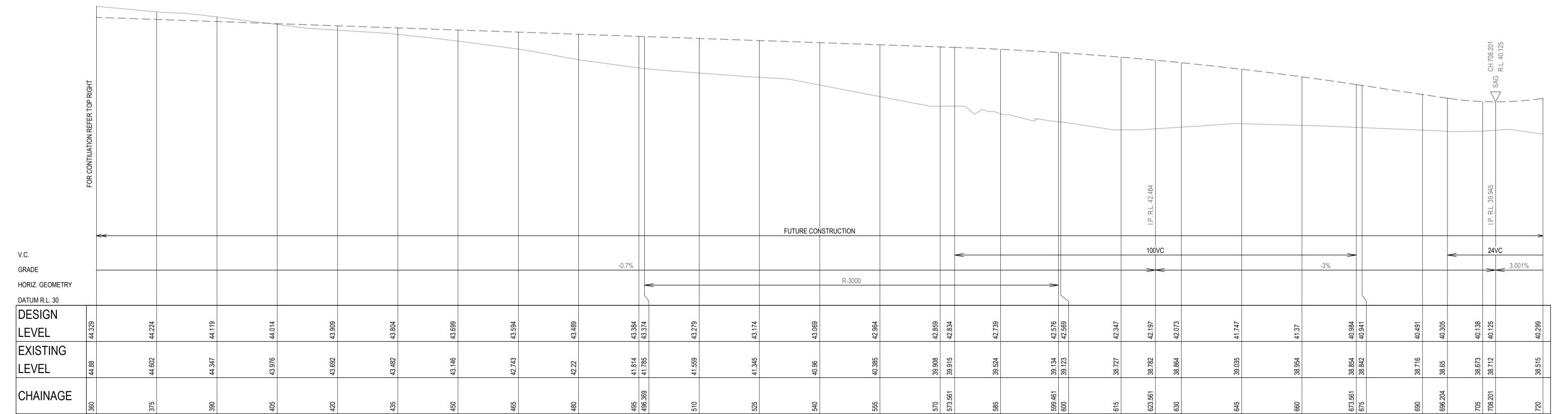
STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK ROAD & DRAINAGE DESIGN TYPICAL ROAD CROSS **SECTIONS & DETAILS** 

Project No. 20-0127

LEGEND					
FINISHED DESIGN SURFACE LEVEL					
EXISTING SURFACE					
FUTURE SURFACE LEVEL					



LONGITUDINAL SECTION - HOLLINSWORTH ROAD SCALE 1:500 (H)



LONGITUDINAL SECTION - HOLLINSWORTH ROAD SCALE 1:500 (H) SCALE 1:100 (V)

FOR DEVELOPMENT APPLICATION

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	Rev	Drawn	Design	Appd.	Date	Revision Description

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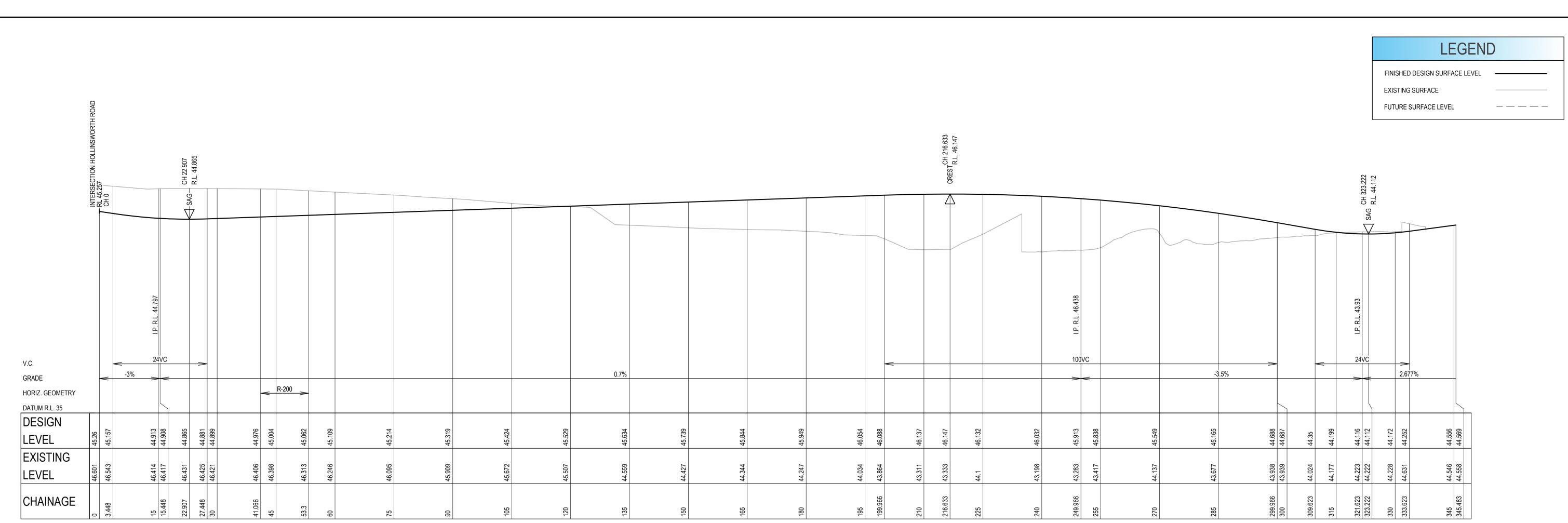




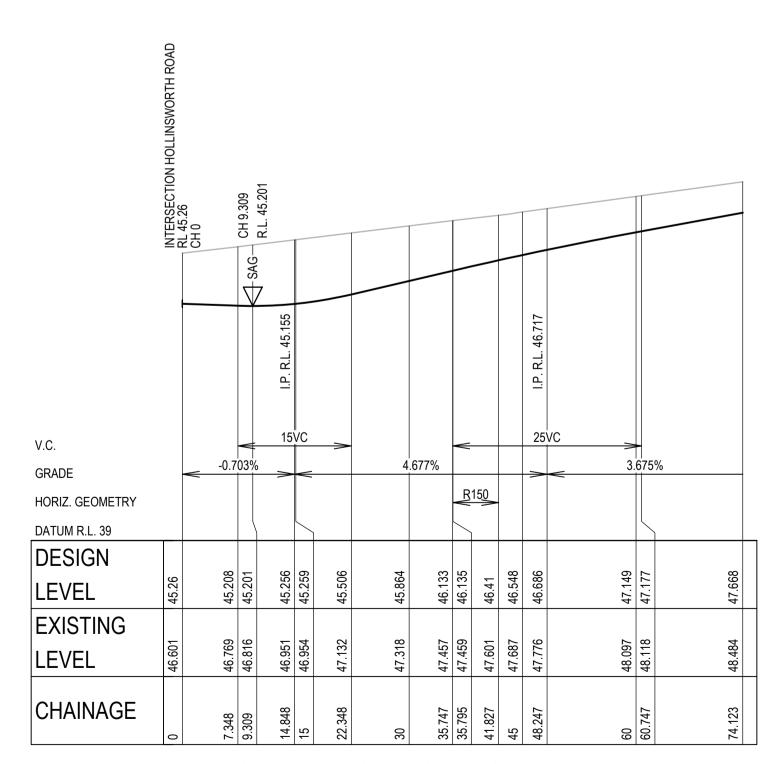


STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK ROAD & DRAINAGE DESIGN

Title:		ONG SECT ET 01 OF (		
Project No. 20-0127	Set No. <b>02</b>	Milestone DA	Plan <b>301</b>	Rev



LONGITUDINAL SECTION - ROAD No.01 SCALE 1:500 (H) SCALE 1:100 (V)



### LONGITUDINAL SECTION - ROAD No.02 SCALE 1:500 (H)

C MG DH MP 28/10/2020 ISSUED FOR DEVELOPMENT APPLICATION
B MG DH

A MS DH MP 31/07/2020 ISSUED FOR DEVELOPMENT APPLICATION

Revision Description

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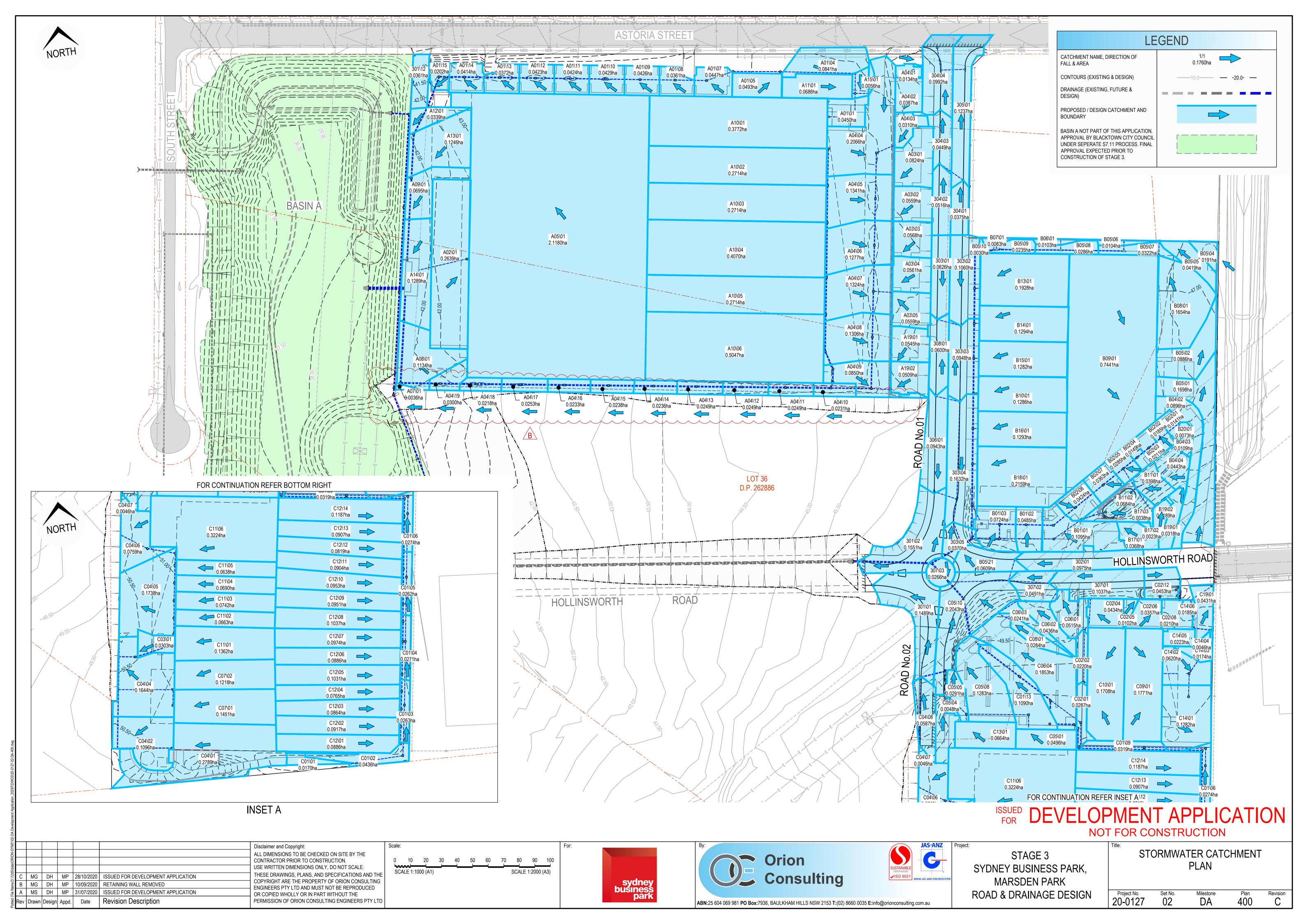


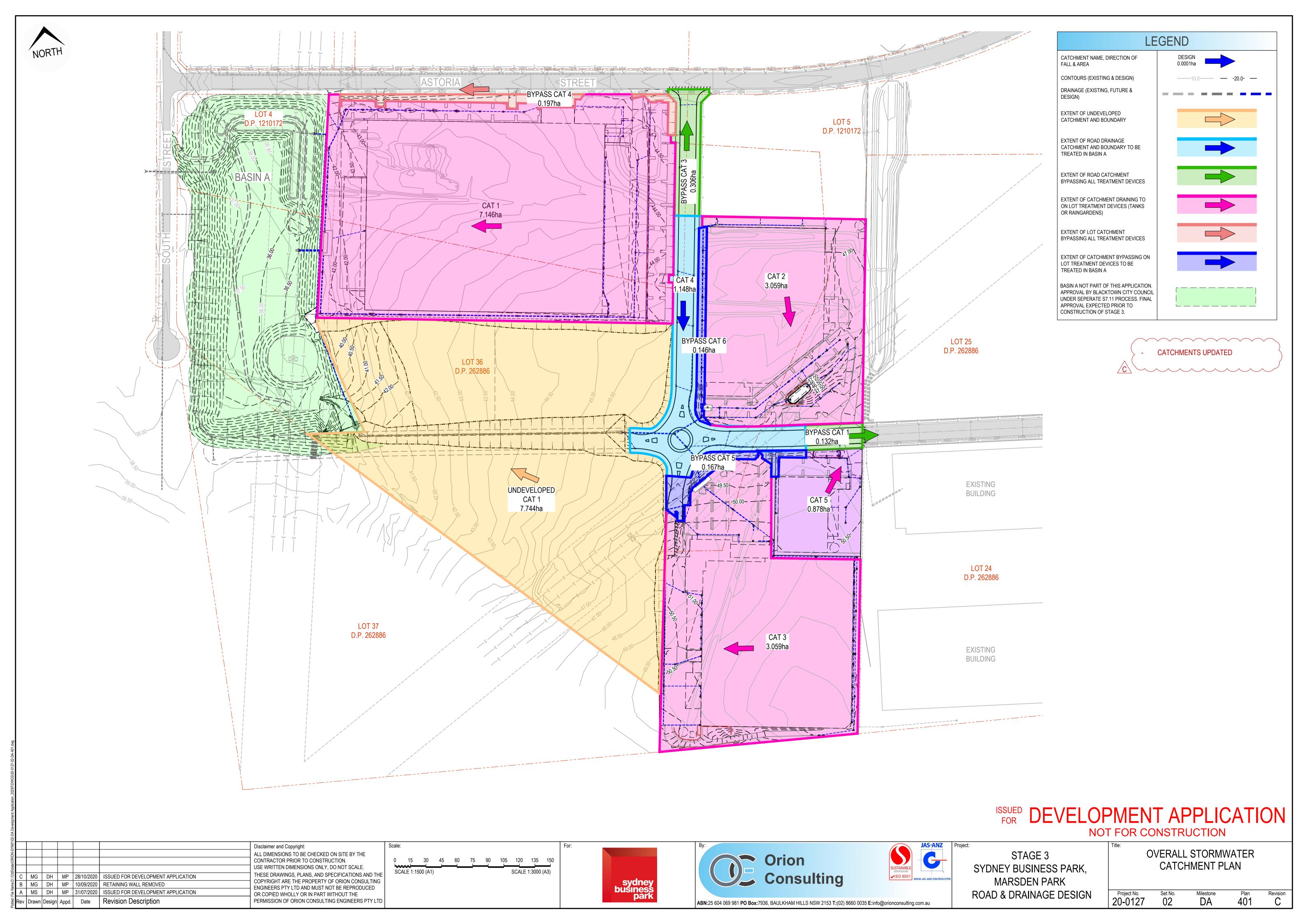
STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK **ROAD & DRAINAGE DESIGN** 

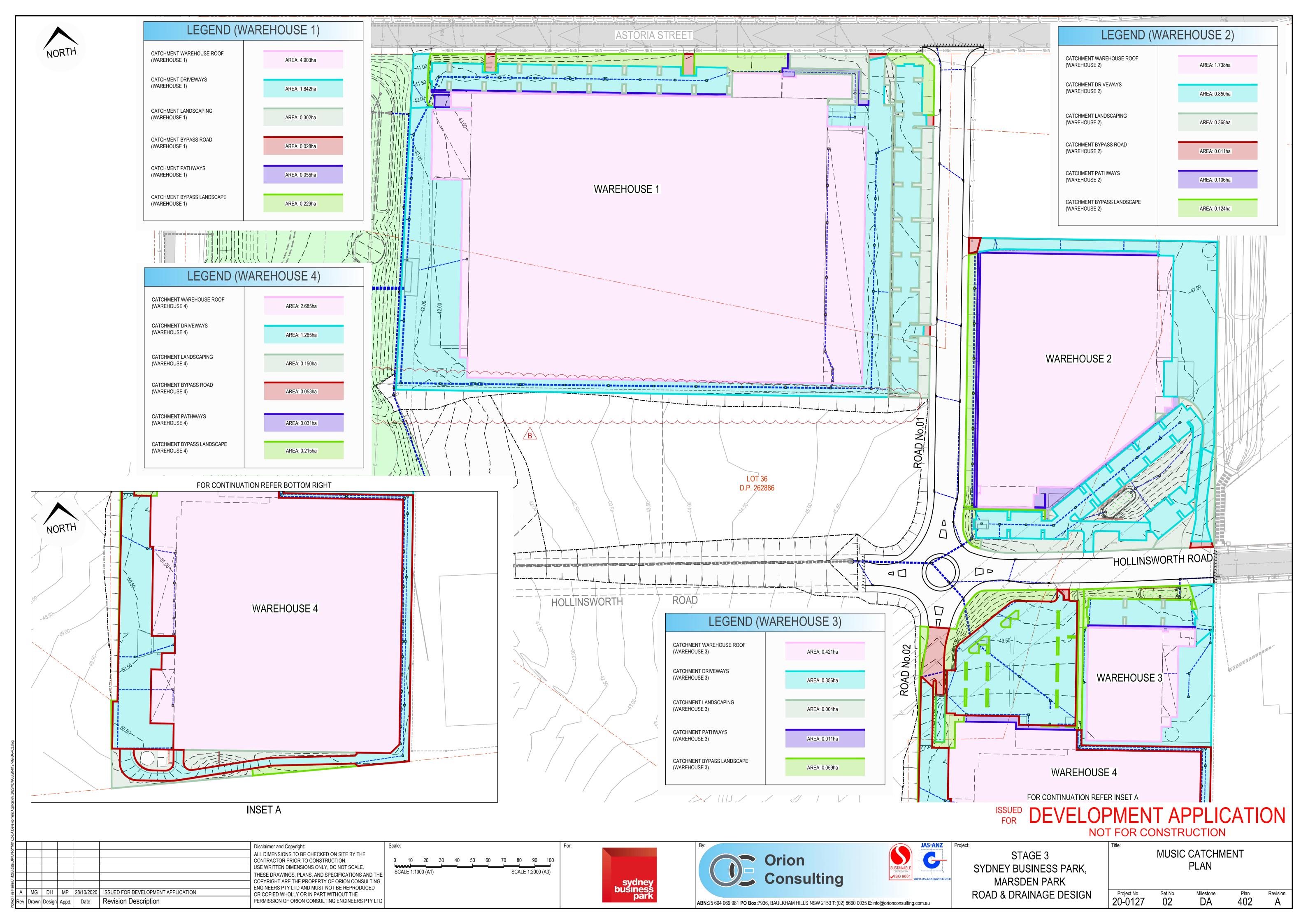
NOT FOR CONSTRUCTION ROAD LONG SECTIONS SHEET 02 OF 02

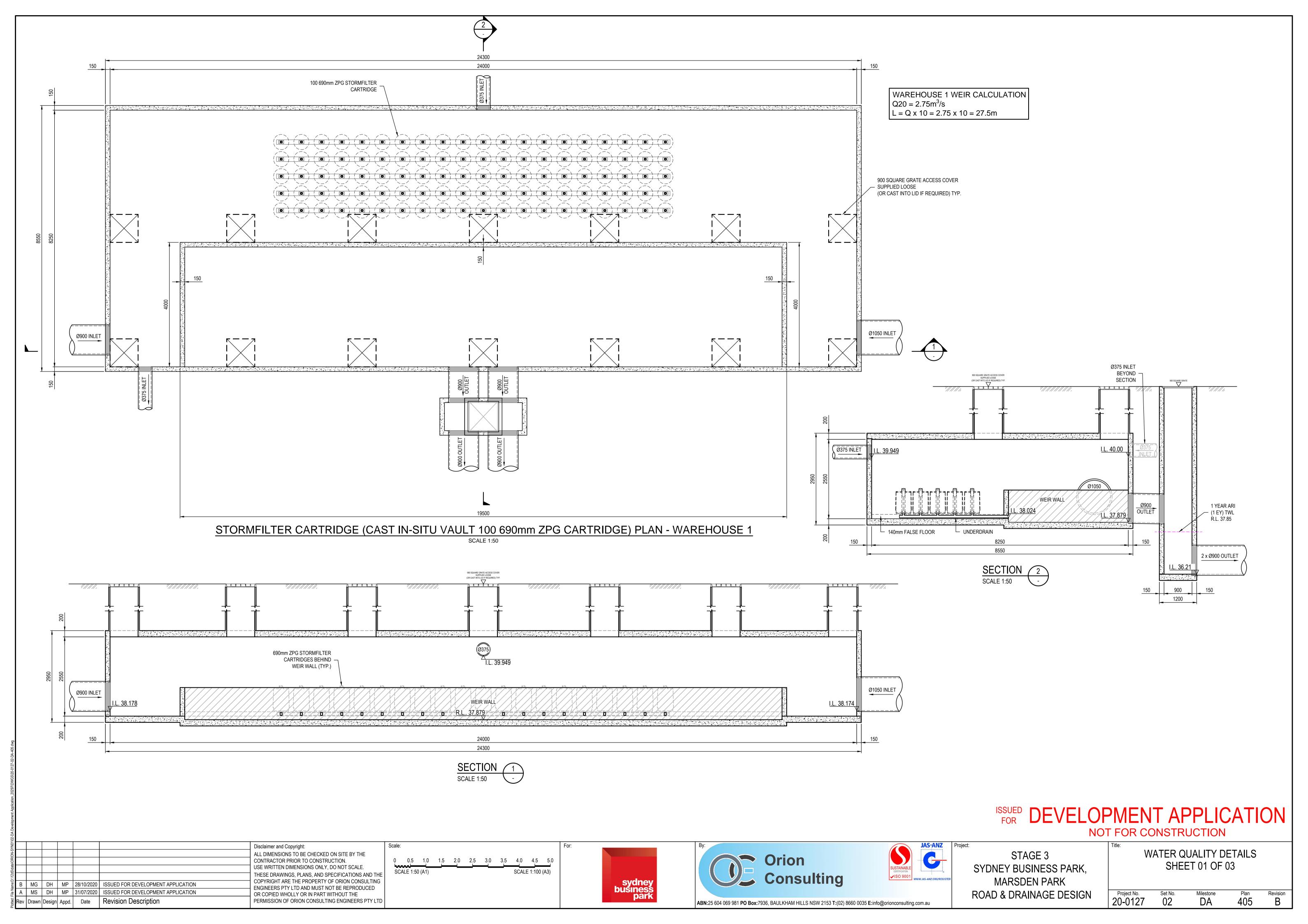
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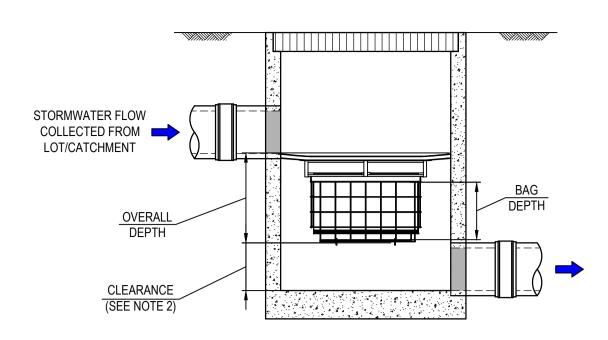
FOR DEVELOPMENT APPLICATION



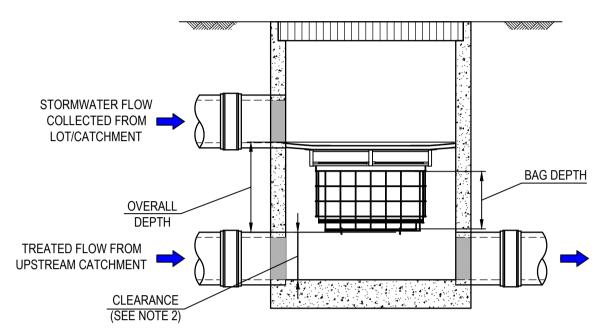




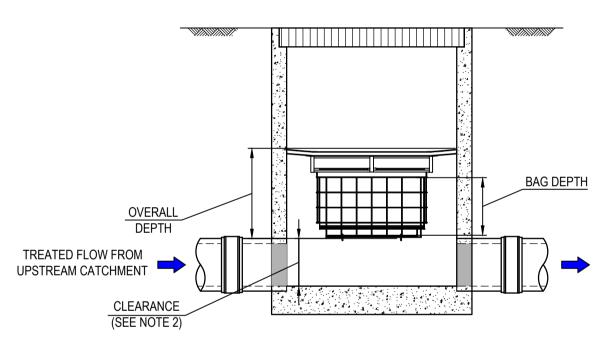




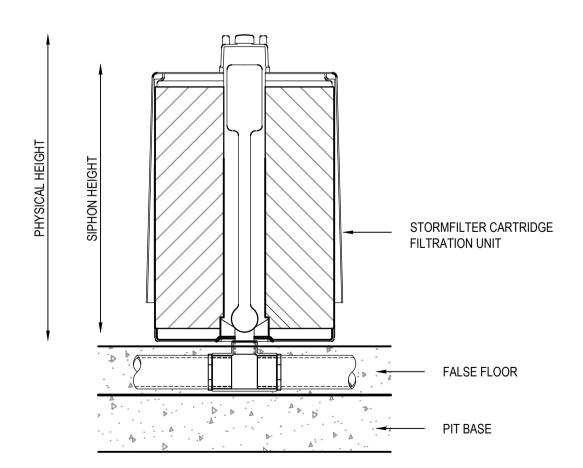
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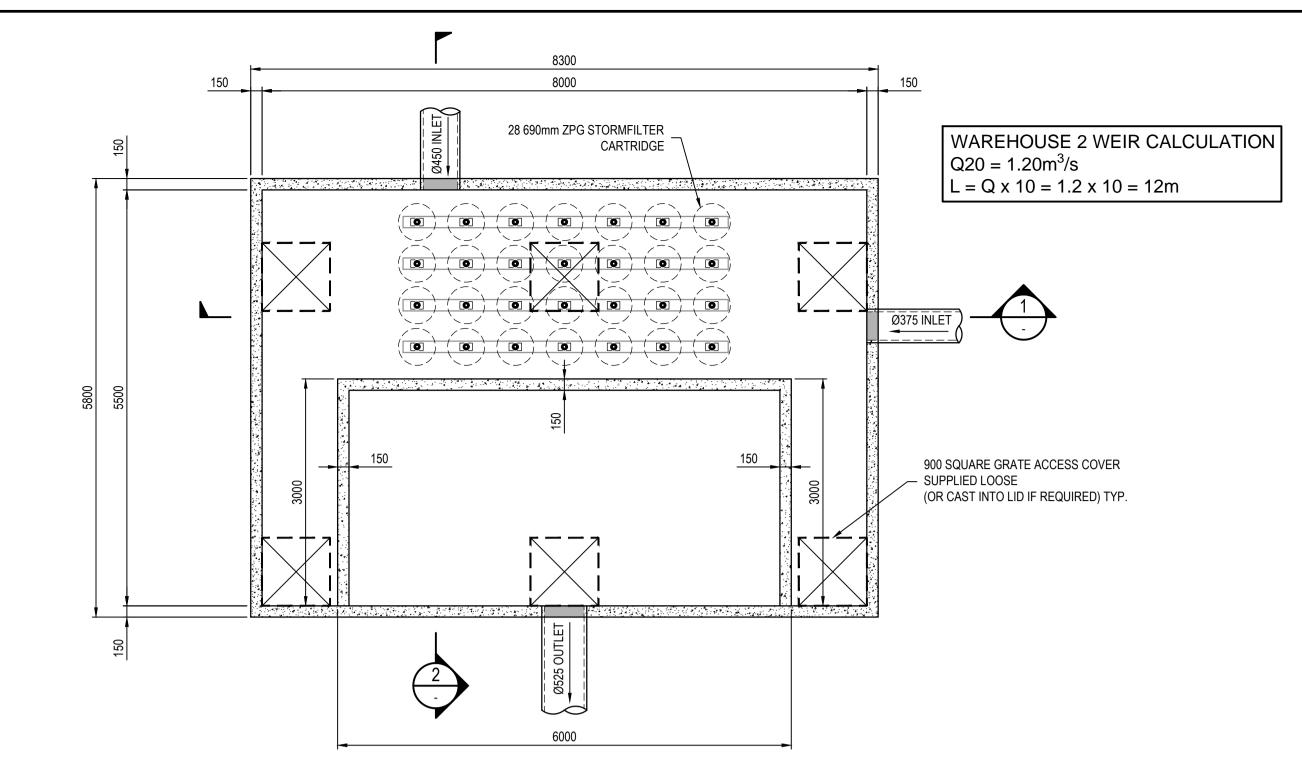
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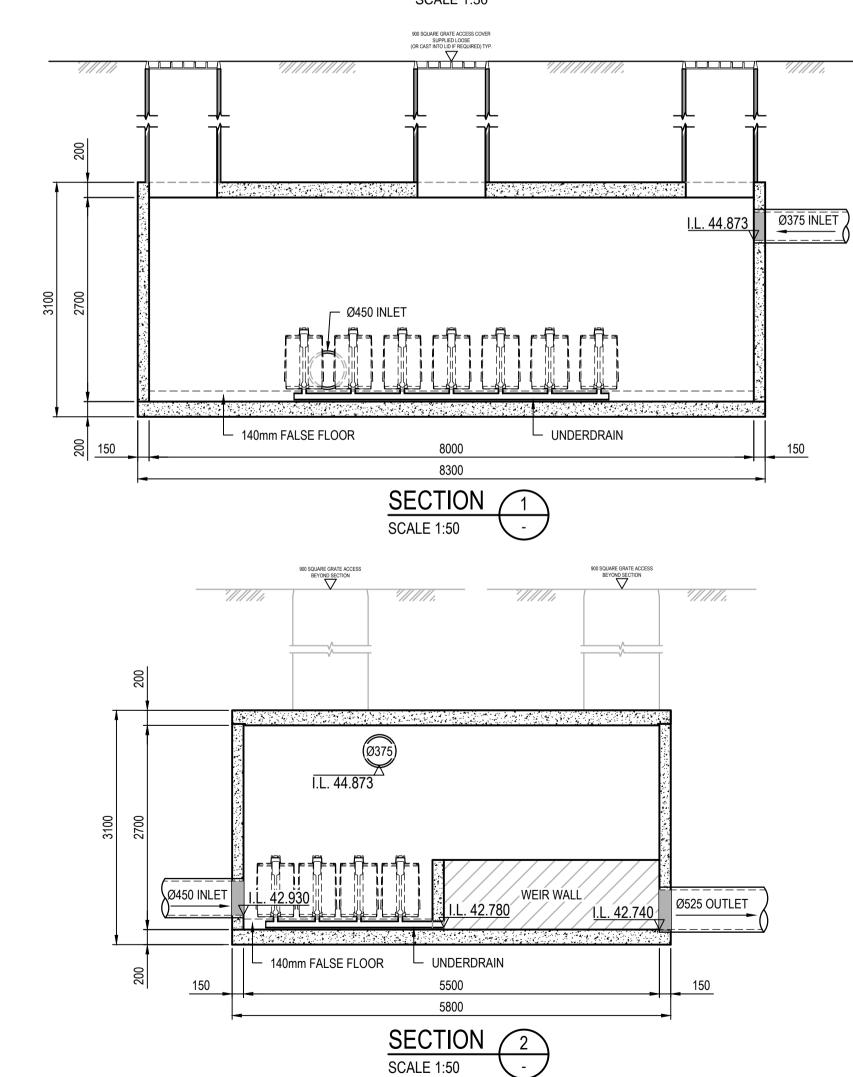
TYPE 3 OCEANGUARD CONFIGURATION



### STORMFILTER CARTRIDGE DETAIL SCALE: N.T.S.



### STORMFILTER CARTRIDGE (CAST IN-SITU VAULT 28 690mm ZPG CARTRIDGE) PLAN - WAREHOUSE 2



# FOR DEVELOPMENT APPLICATION

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B MG DH MP 28/10/2020 ISSUED FOR DEVELOPMENT APPLICATION A MS DH MP 31/07/2020 ISSUED FOR DEVELOPMENT APPLICATION Revision Description

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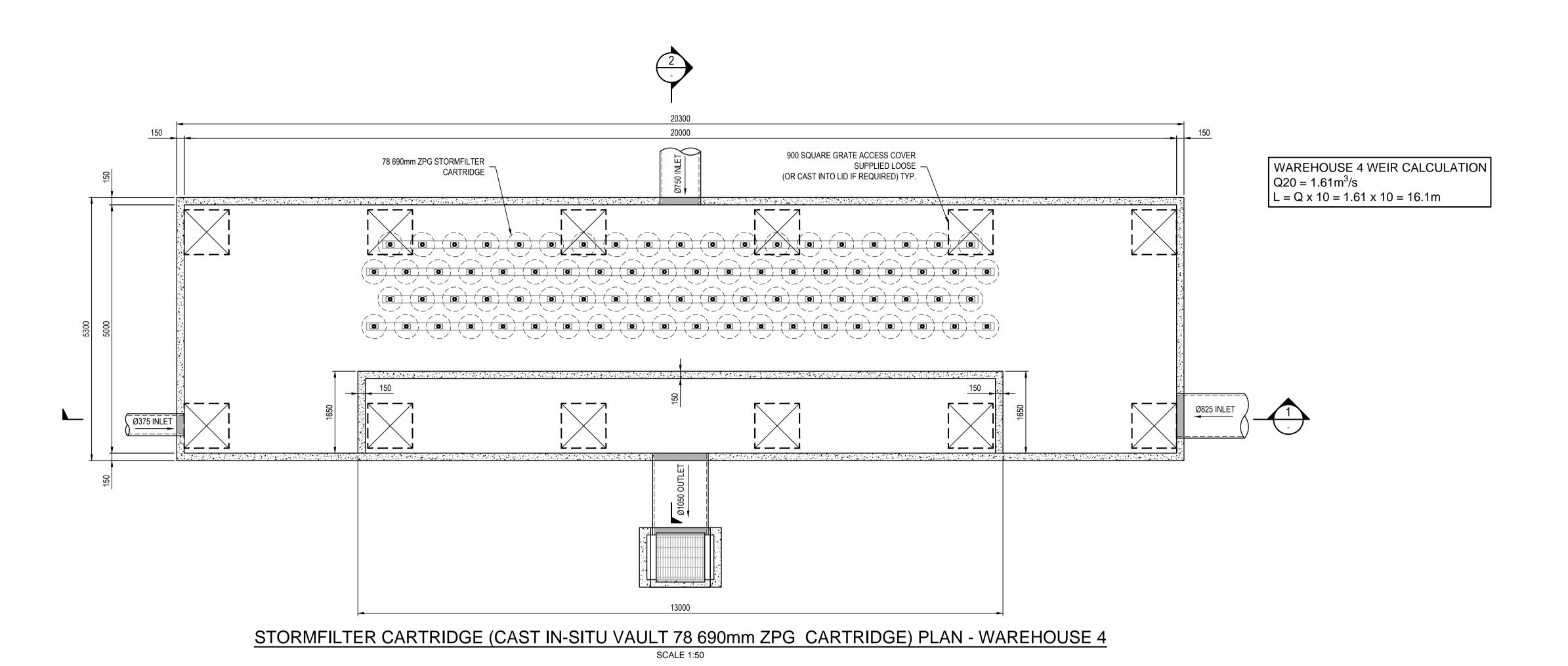


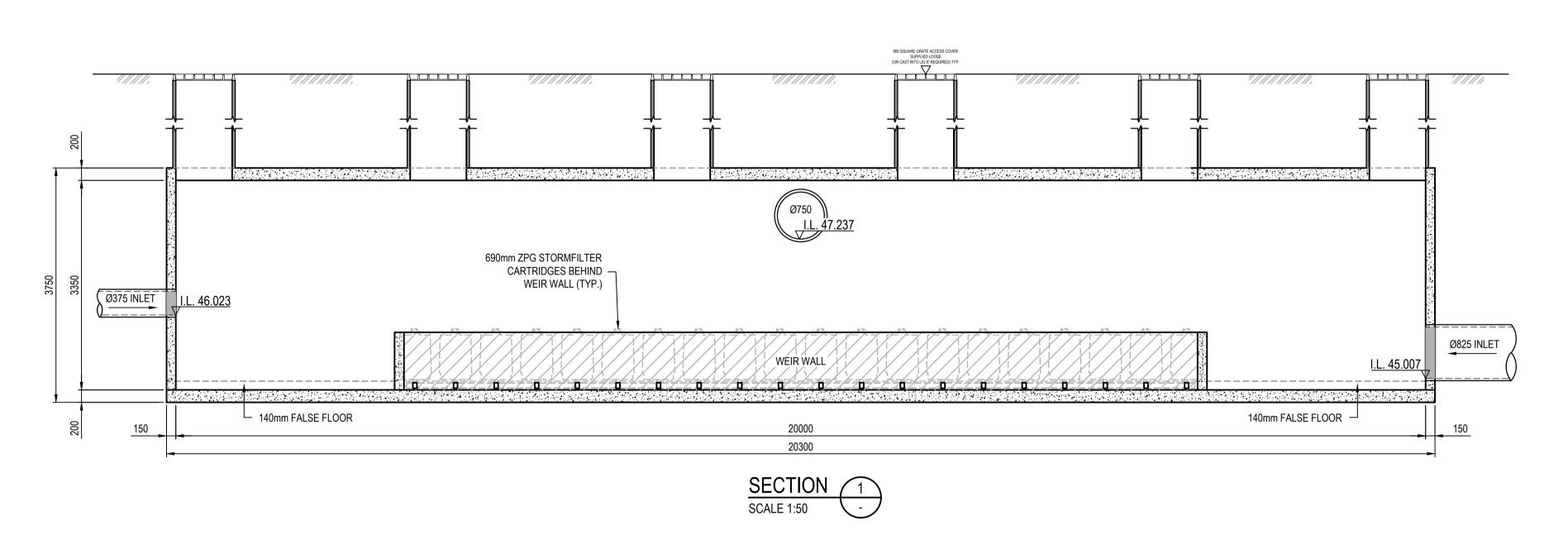


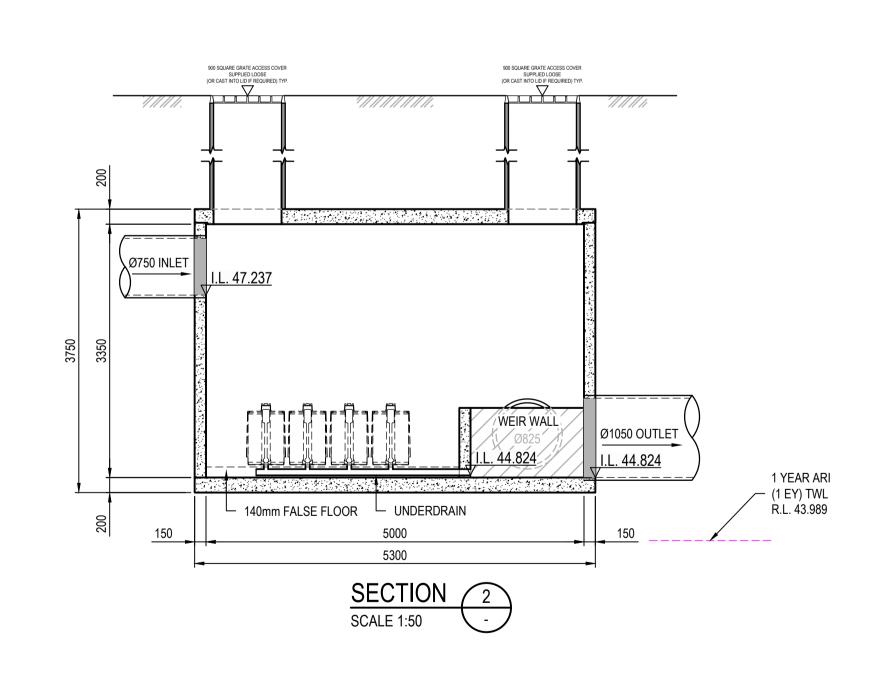


STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK **ROAD & DRAINAGE DESIGN** 

WATER QUALITY DETAILS SHEET 02 OF 03 Project No. 20-0127 406





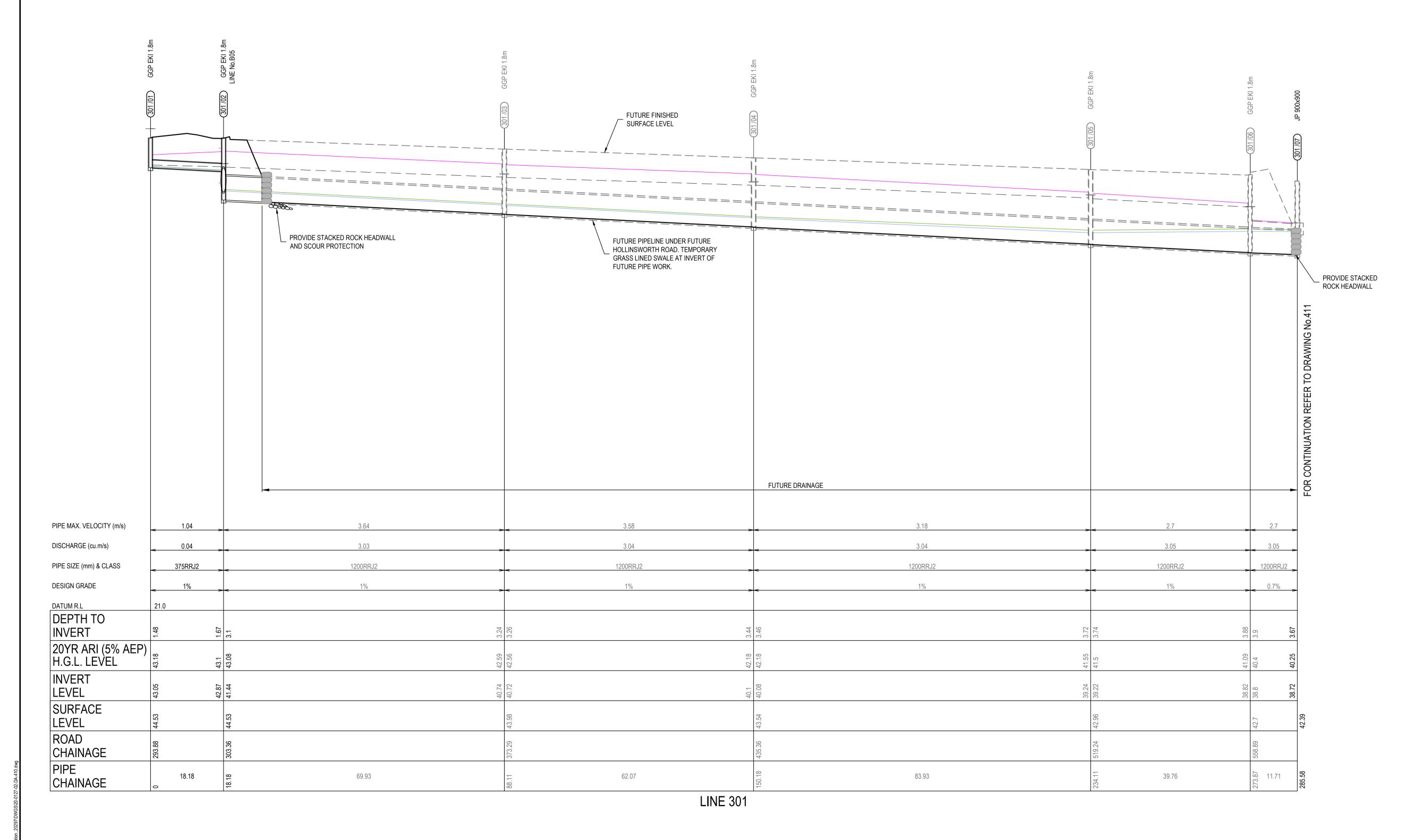


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PROPOSED PIPE ————	LEG	END
FINISHED DESIGN SURFACE LEVEL  FUTURE PIT & PIPES  6 MONTH HGL LEVEL  1 YEAR HGL LEVEL  1:20 YR ARI YEAR HGL LEVEL	FINISHED DESIGN SURFACE LEVEL FUTURE PIT & PIPES 6 MONTH HGL LEVEL 1 YEAR HGL LEVEL 100 YEAR HGL LEVEL	



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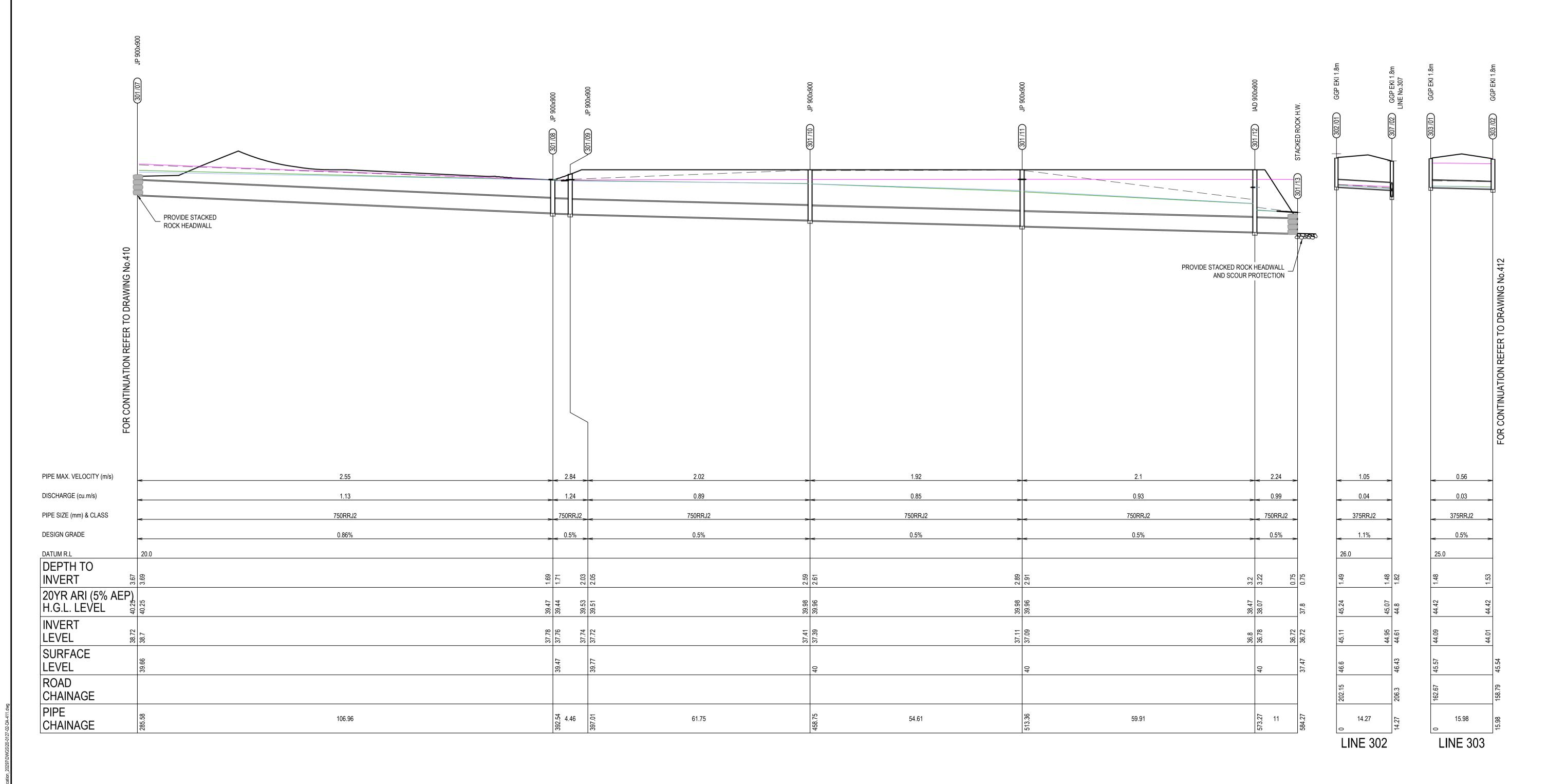


STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK **ROAD & DRAINAGE DESIGN**  DRAINAGE LONG SECTIONS SHEET 01 OF 17

Project No.	Set No.	Milestone	Plan	Revis
20-0127	02	DA	410	<u>E</u>



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PROPOSED PIPE FINISHED DESIGN SURFACE LEVEL FUTURE PIT & PIPES 6 MONTH HGL LEVEL 1 YEAR HGL LEVEL 100 YEAR HGL LEVEL 1:20 YR ARI YEAR HGL LEVEL	



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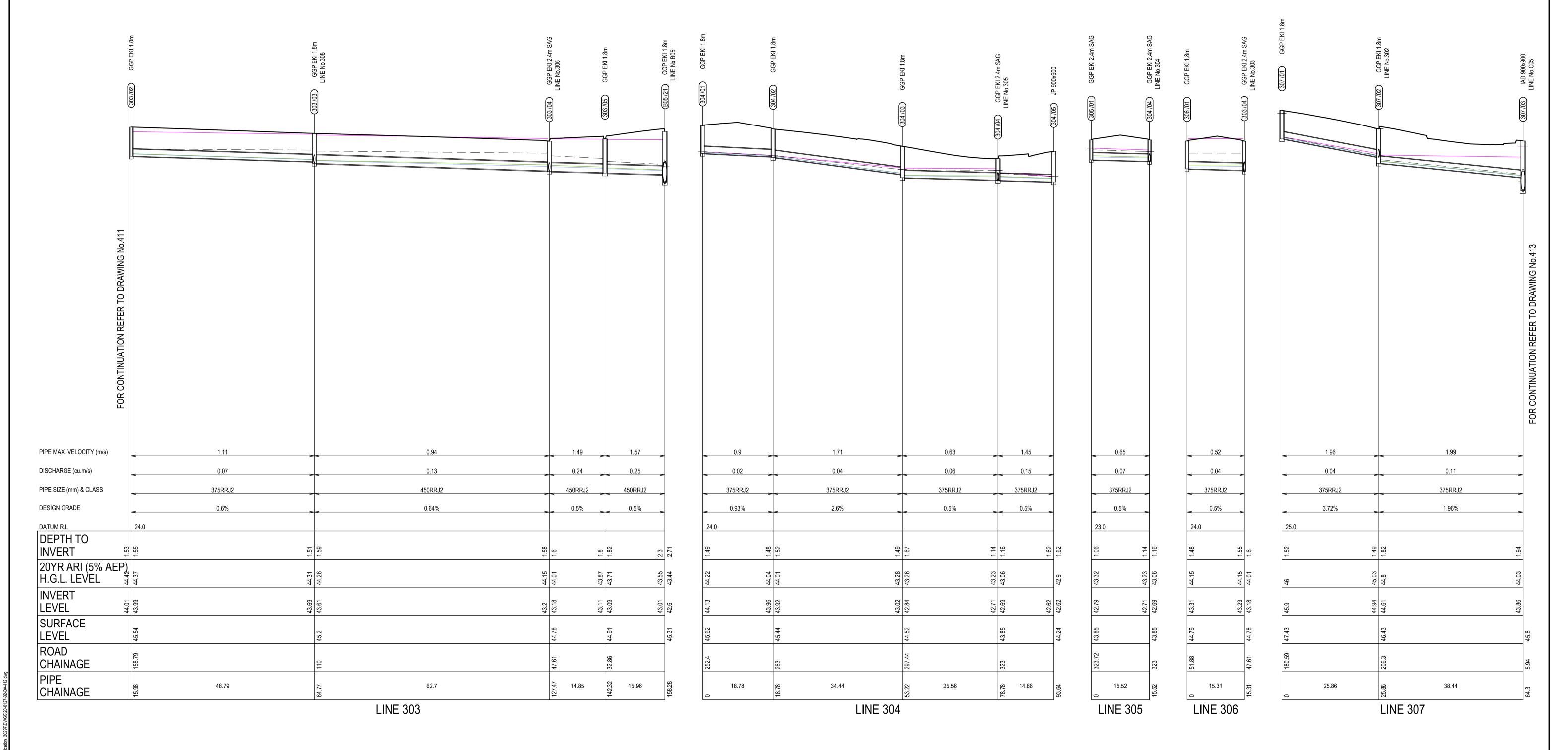


STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK ROAD & DRAINAGE DESIGN

DRAINAGE LONG SECTIONS SHEET 02 OF 17 Project No. 20-0127

DRAINAGE LONG SECTIONS

LEG	END
PROPOSED PIPE FINISHED DESIGN	
SURFACE LEVEL FUTURE PIT & PIPES	
6 MONTH HGL LEVEL	
100 YEAR HGL LEVEL	
1:20 YR ARI YEAR HGL LEVEL	



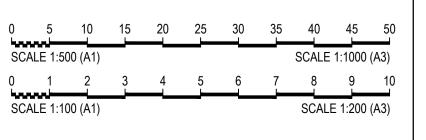
### FOR DEVELOPMENT APPLICATION

Project No. 20-0127

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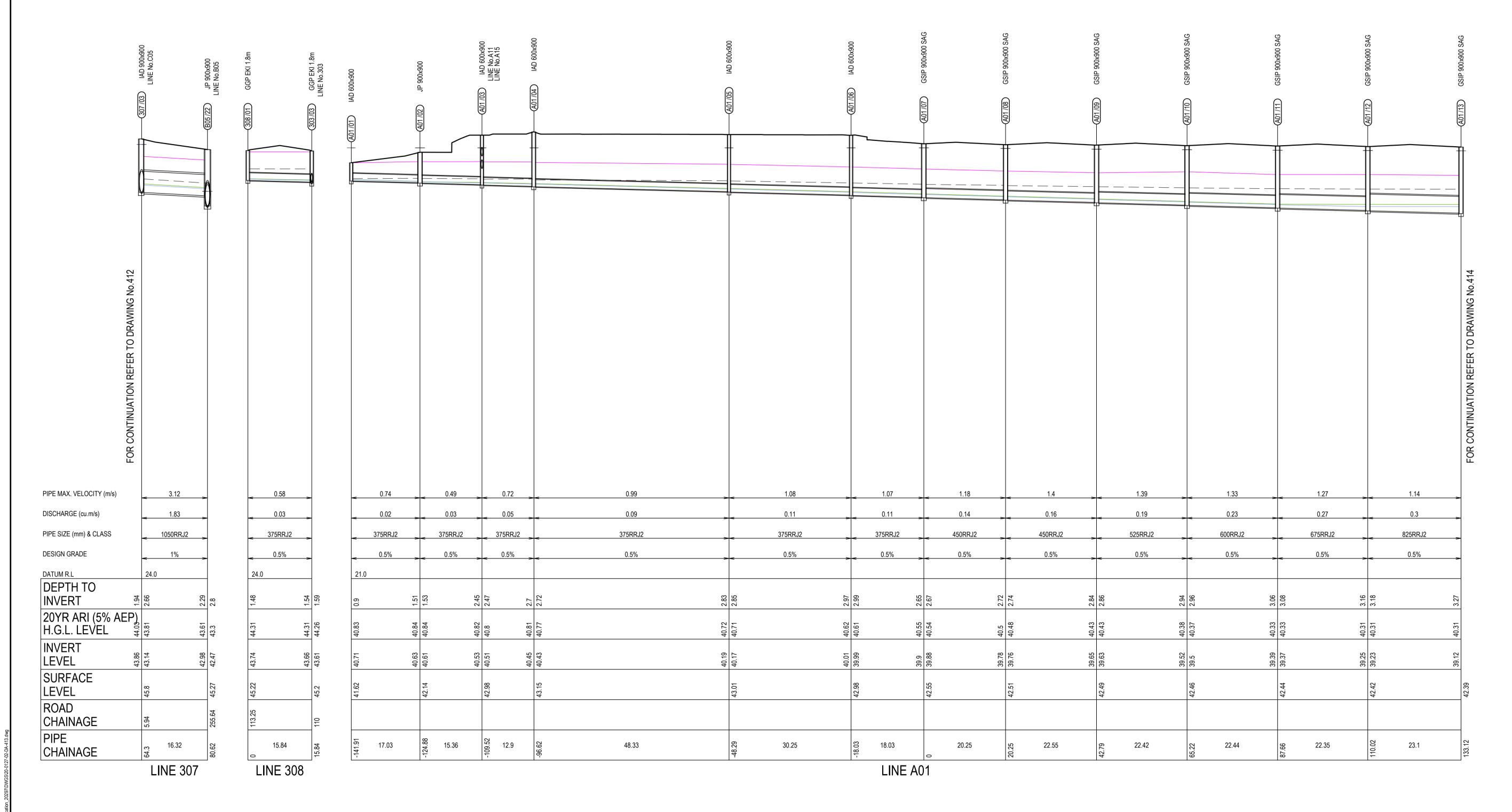


STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK ROAD & DRAINAGE DESIGN DRAINAGE LONG SECTIONS SHEET 03 OF 17

Plan **412** 



LEG	END
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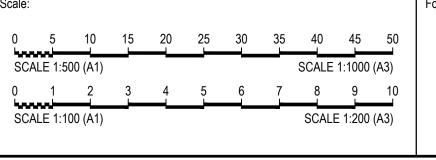


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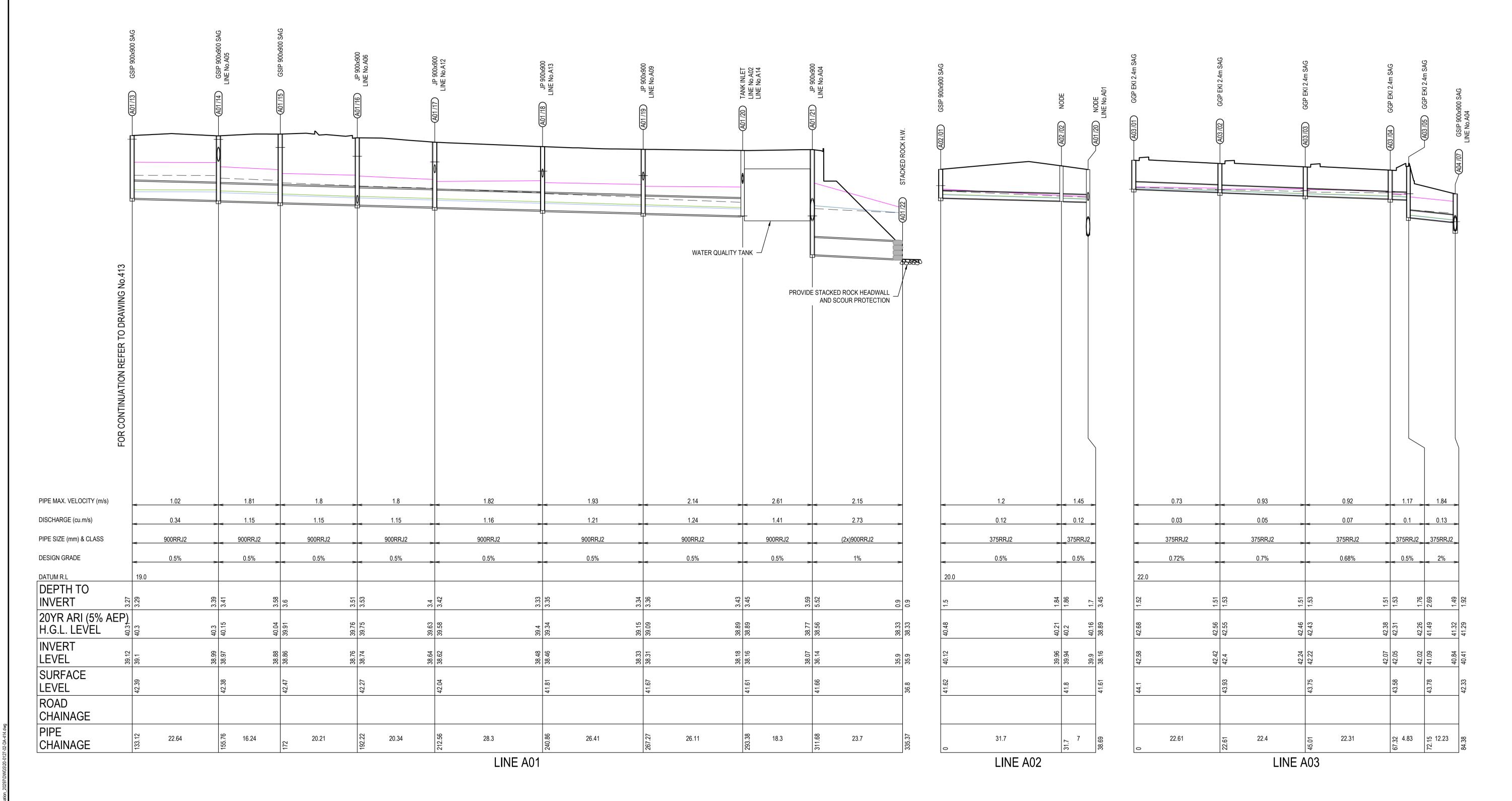


STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK **ROAD & DRAINAGE DESIGN**  DRAINAGE LONG SECTIONS SHEET 04 OF 17

	Project No. 20-0127	Set No. <b>02</b>	Milestone DA	Plan <b>413</b>	Revis
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LEG	END
PROPOSED PIPE FINISHED DESIGN SURFACE LEVEL FUTURE PIT & PIPES 6 MONTH HGL LEVEL 1 YEAR HGL LEVEL 100 YEAR HGL LEVEL 1:20 YR ARI YEAR HGL LEVEL	
1.20 TIVAIN TEARTIOL LEVEL	



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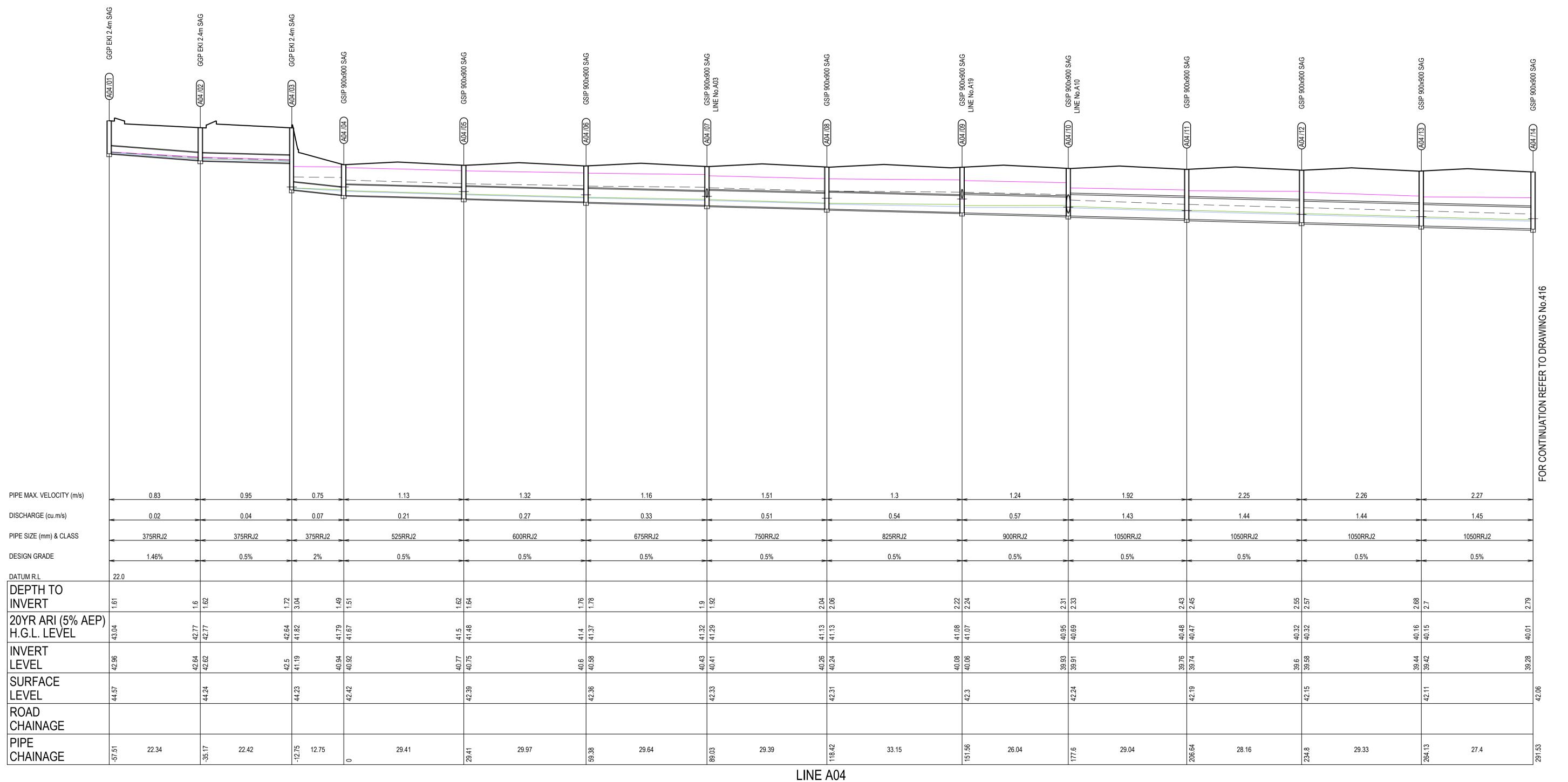


STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK **ROAD & DRAINAGE DESIGN**  DRAINAGE LONG SECTIONS SHEET 05 OF 17

Project No.	Set No.	Milestone	Plan	Revis
20-0127	02	DA	414	Е
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LEGE	END
PROPOSED PIPE FINISHED DESIGN SURFACE LEVEL FUTURE PIT & PIPES 6 MONTH HGL LEVEL 1 YEAR HGL LEVEL 100 YEAR HGL LEVEL 1:20 YR ARI YEAR HGL LEVEL	



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	Project:	JAS-ANZ	
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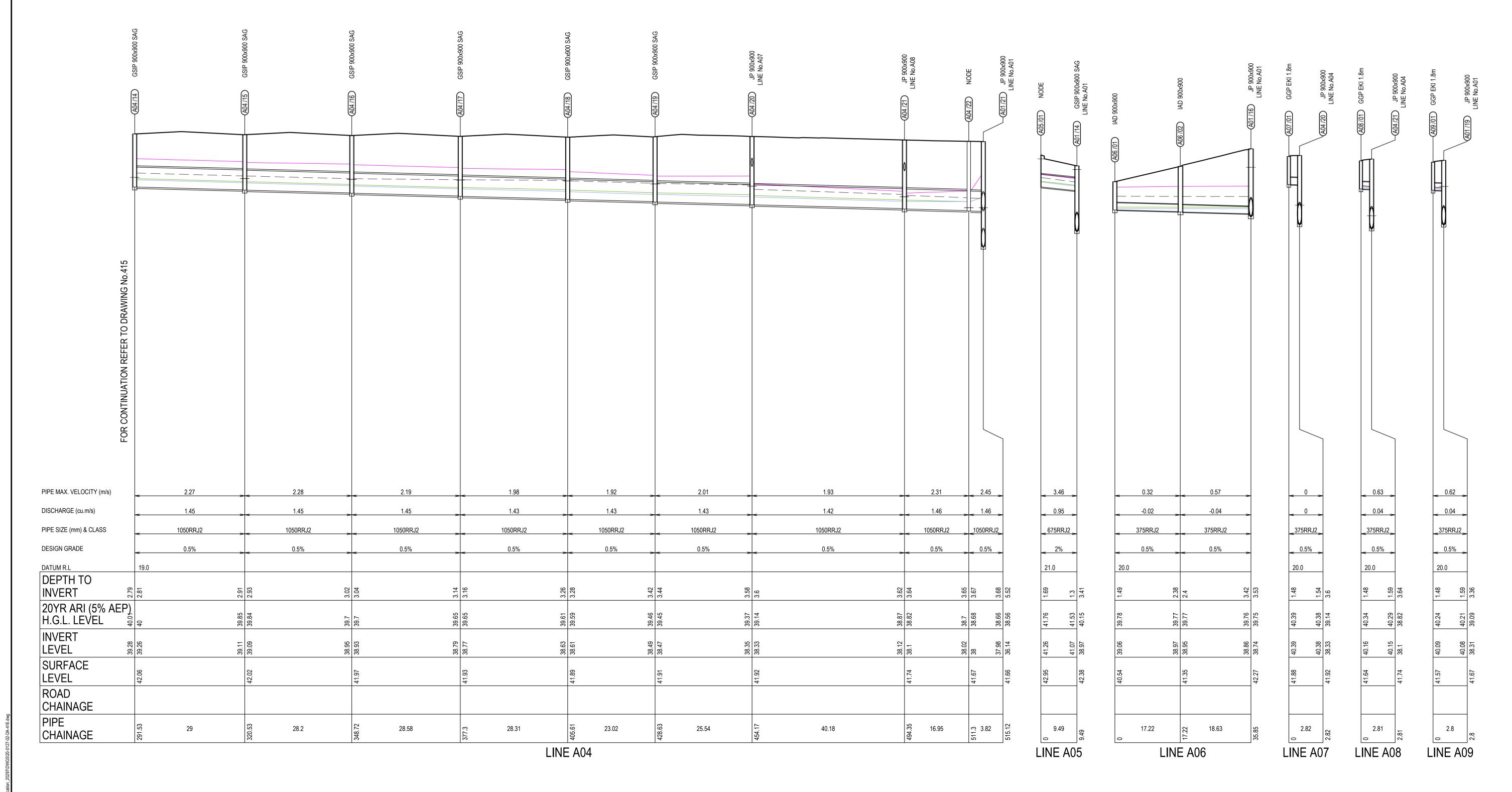
AGE 3 SINESS PARK, EN PARK **ROAD & DRAINAGE DESIGN** 

SHEET 06 OF 17						
Project No. 20-0127	Set No. <b>02</b>	Milestone DA	Plan <b>415</b>			

DRAINAGE LONG SECTIONS



PROPOSED PIPE FINISHED DESIGN SURFACE LEVEL  FUTURE PIT & PIPES  6 MONTH HGL LEVEL  1 YEAR HGL LEVEL  1:20 YR ARI YEAR HGL LEVEL	<b>-</b>



Project No. 20-0127

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STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK ROAD & DRAINAGE DESIGN DRAINAGE LONG SECTIONS SHEET 07 OF 17

Plan **416** 

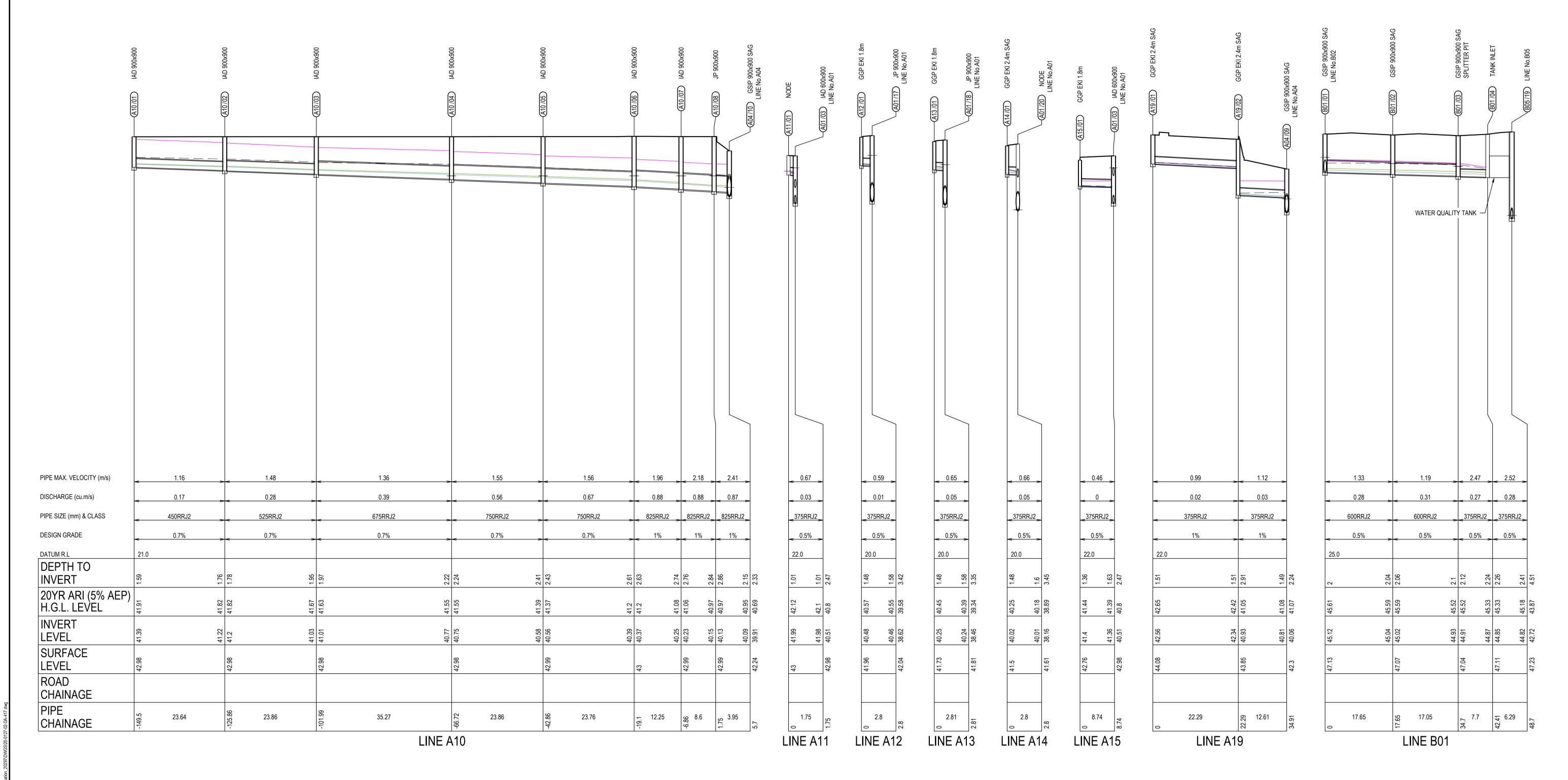


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FUTURE PIT & PIPES						
6 MONTH HGL LEVEL						
1 YEAR HGL LEVEL						

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100 YEAR HGL LEVEL

1:20 YR ARI YEAR HGL LEVEL



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Project No. 20-0127

DRAINAGE LONG SECTIONS

SHEET 08 OF 17

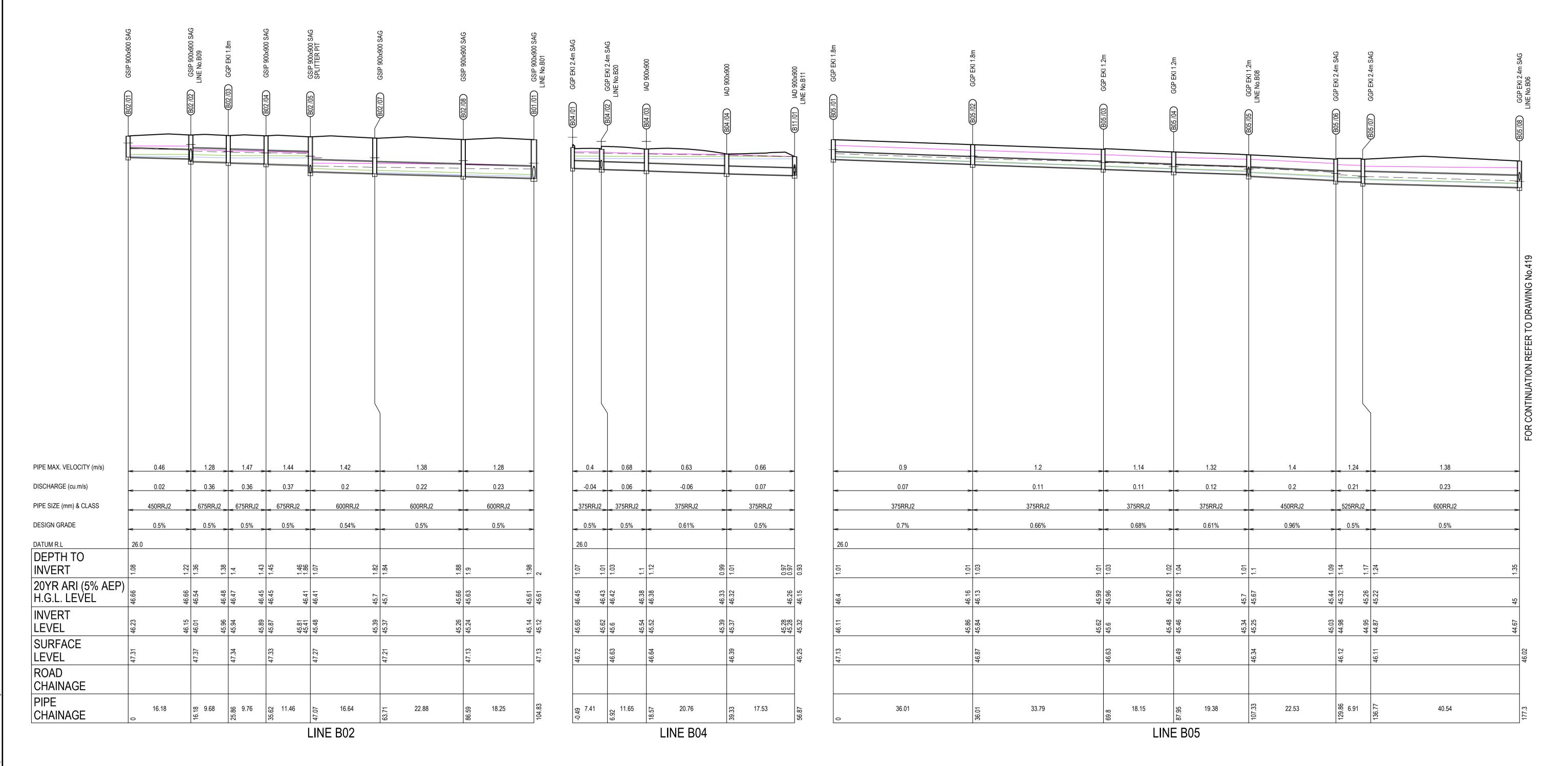
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Orion Consulting STAGE 3 0 5 10 15 20 25 30 35 40 45 50 SYDNEY BUSINESS PARK, SCALE 1:1000 (A3) MARSDEN PARK sydney business park SCALE 1:200 (A3) **ROAD & DRAINAGE DESIGN** 

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au



PROPOSED PIPE  FINISHED DESIGN SURFACE LEVEL  FUTURE PIT & PIPES  6 MONTH HGL LEVEL  1 YEAR HGL LEVEL  100 YEAR HGL LEVEL  1:20 YR ARI YEAR HGL LEVEL	LEG	END
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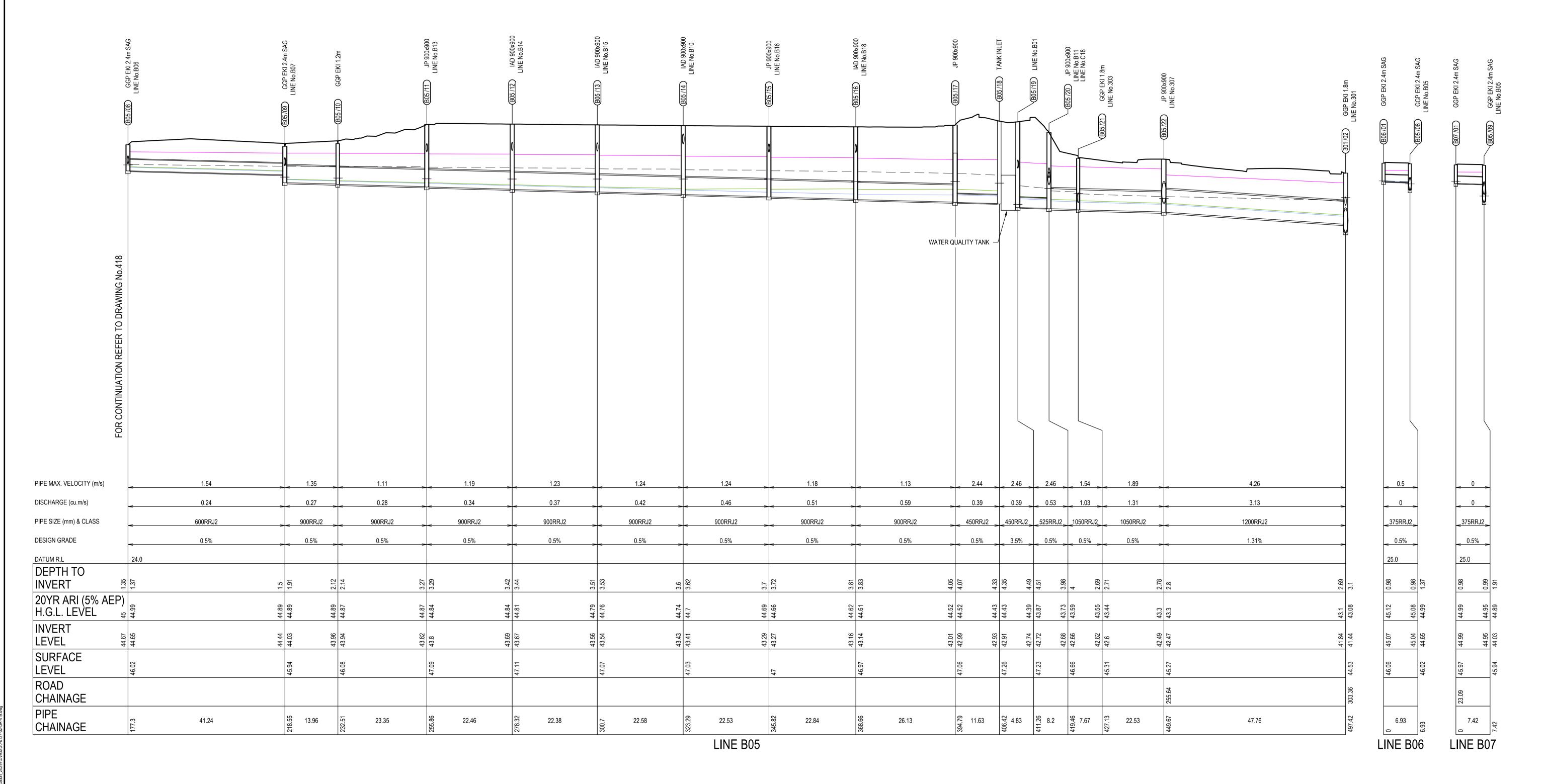


# ISSUED DEVELOPMENT APPLICATION

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PROPOSED PIPE FINISHED DESIGN SURFACE LEVEL  FUTURE PIT & PIPES  6 MONTH HGL LEVEL  1 YEAR HGL LEVEL  1:20 YR ARI YEAR HGL LEVEL	- -



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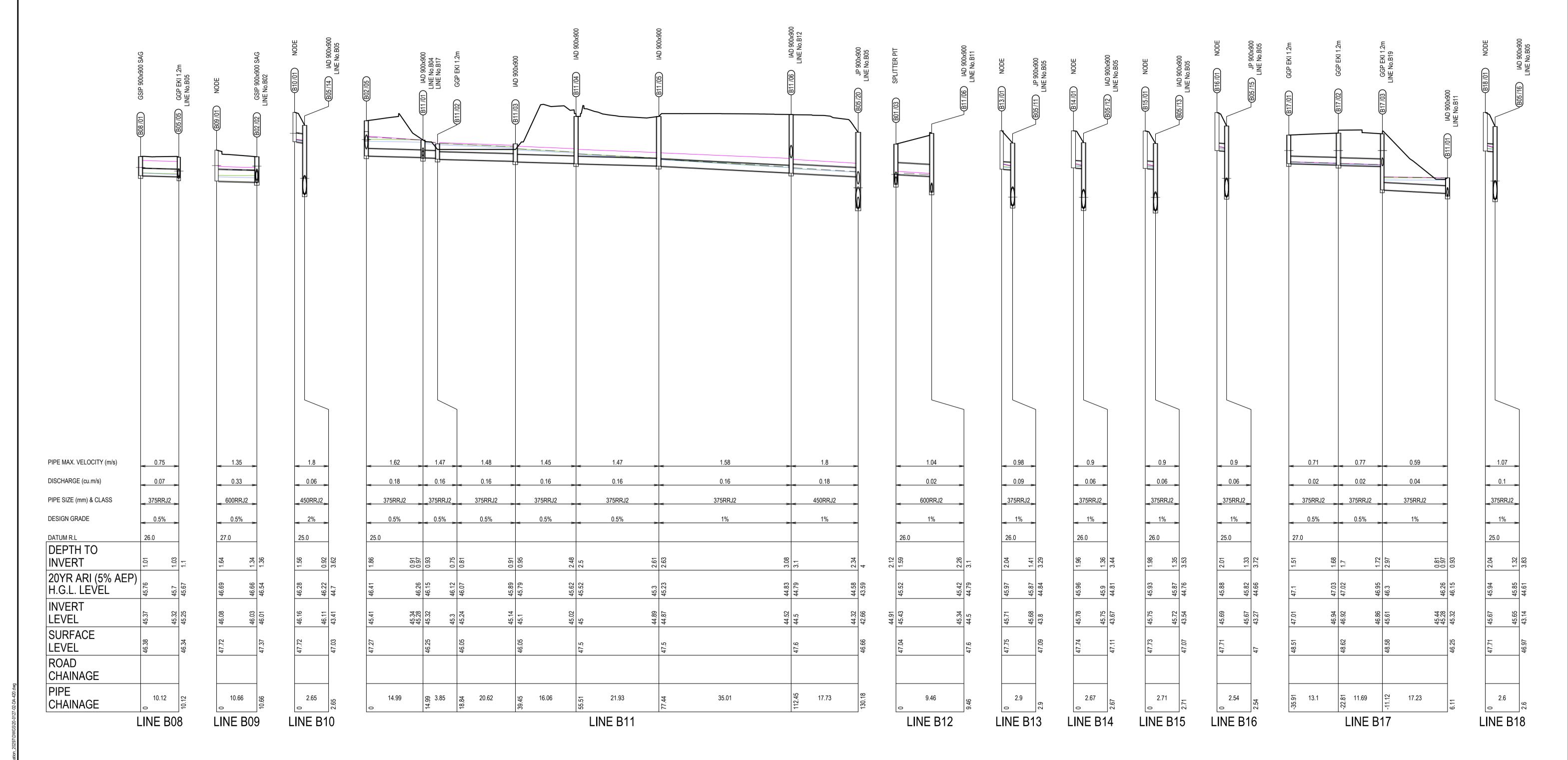




STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK **ROAD & DRAINAGE DESIGN**  DRAINAGE LONG SECTIONS SHEET 10 OF 17

Project No.	Set No.	Milestone	Plan	Rev
20-0127	02	DA	419	

LEG	END
PROPOSED PIPE FINISHED DESIGN SURFACE LEVEL FUTURE PIT & PIPES 6 MONTH HGL LEVEL 1 YEAR HGL LEVEL 100 YEAR HGL LEVEL	
1:20 YR ARI YEAR HGL LEVEL	



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Project No. 20-0127

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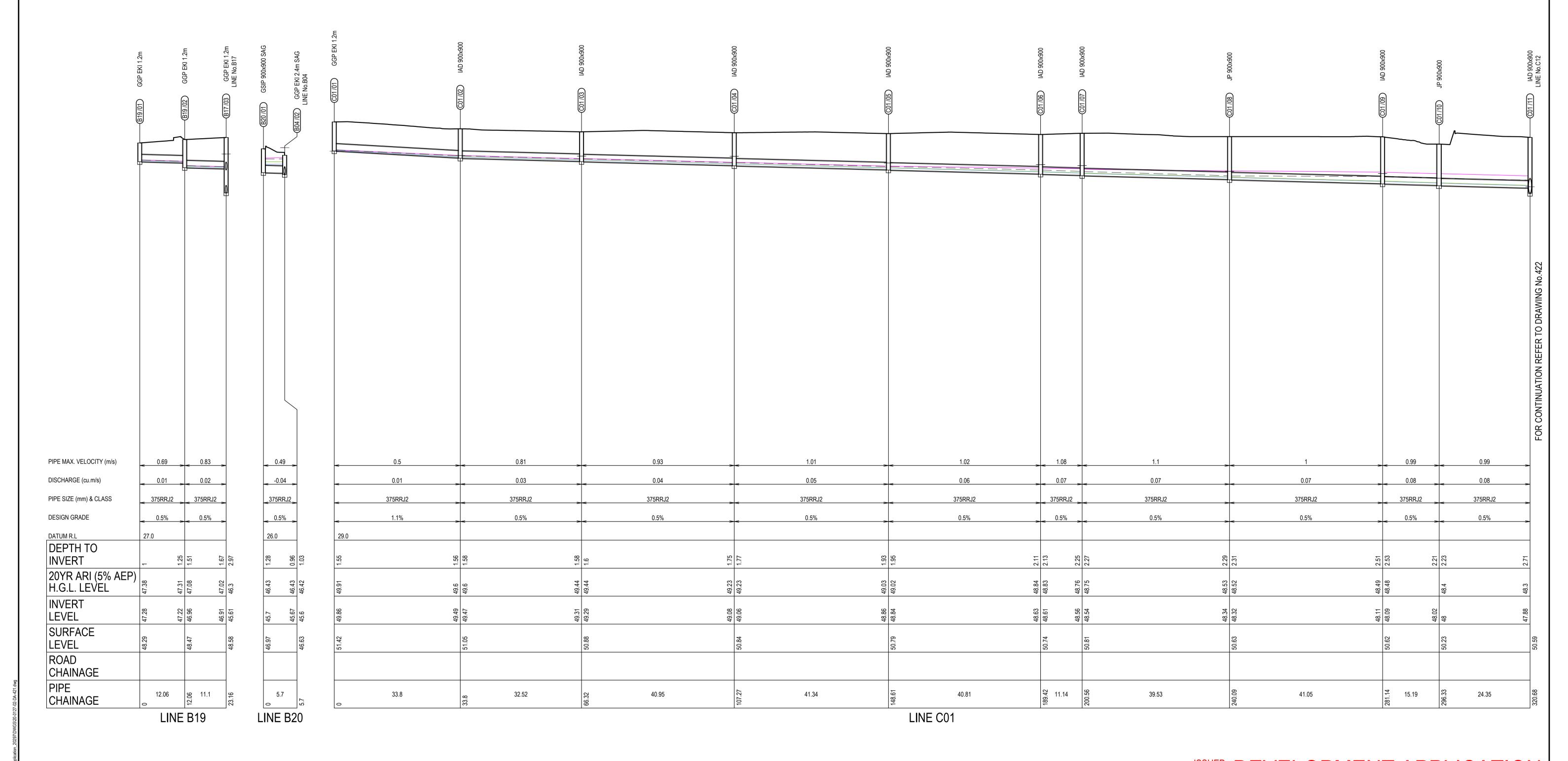
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au

STAGE 3 BUSINESS PARK, RSDEN PARK **ROAD & DRAINAGE DESIGN**  DRAINAGE LONG SECTIONS **SHEET 11 OF 17** 

420



LEG	END
PROPOSED PIPE FINISHED DESIGN SURFACE LEVEL FUTURE PIT & PIPES 6 MONTH HGL LEVEL 1 YEAR HGL LEVEL 100 YEAR HGL LEVEL	
1:20 YR ARI YEAR HGL LEVEL	



Project No. 20-0127

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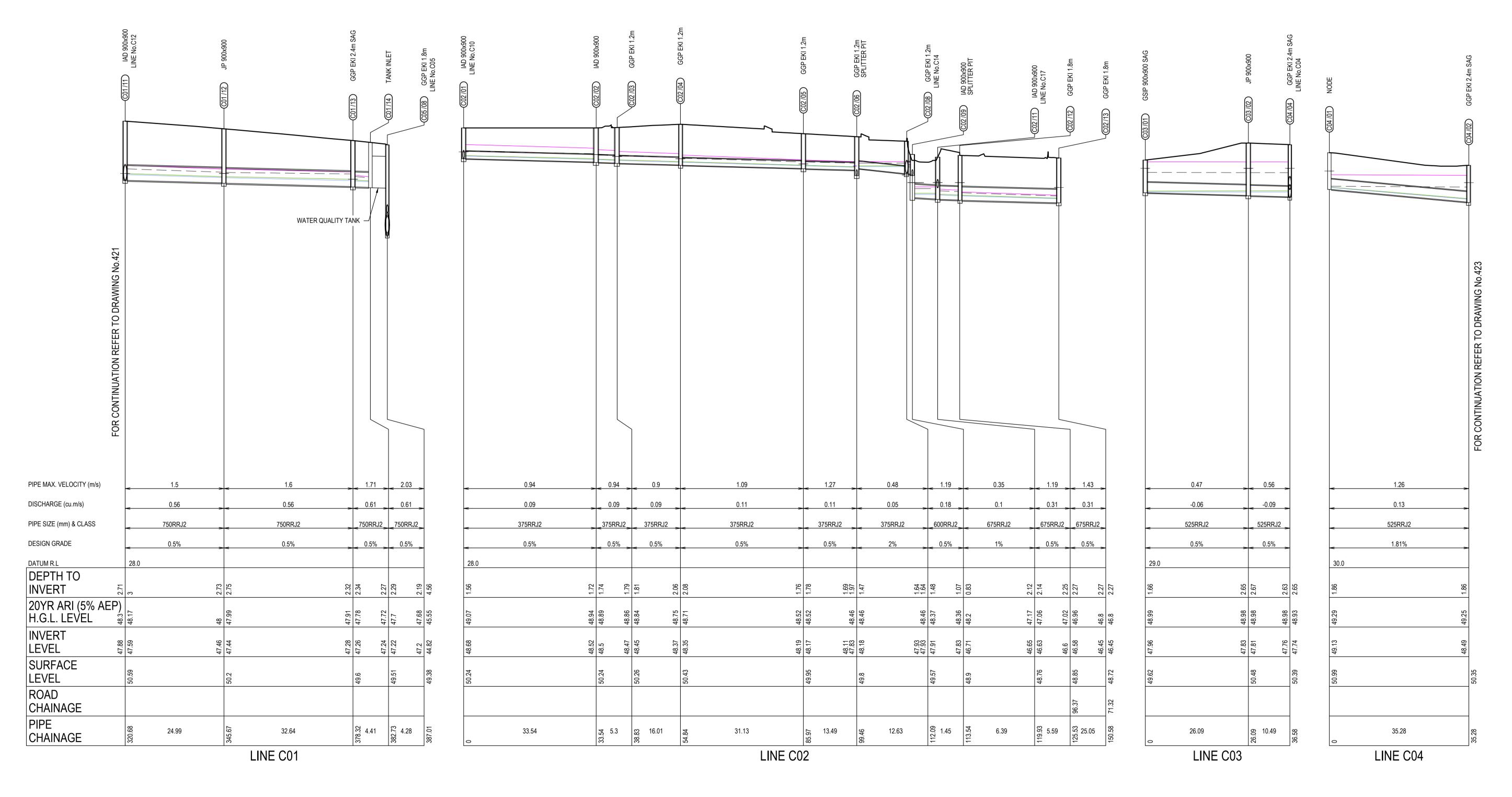


STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK ROAD & DRAINAGE DESIGN DRAINAGE LONG SECTIONS **SHEET 12 OF 17** 

421



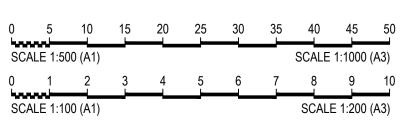
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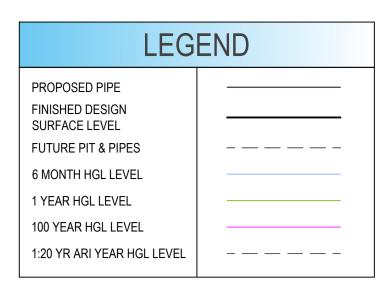


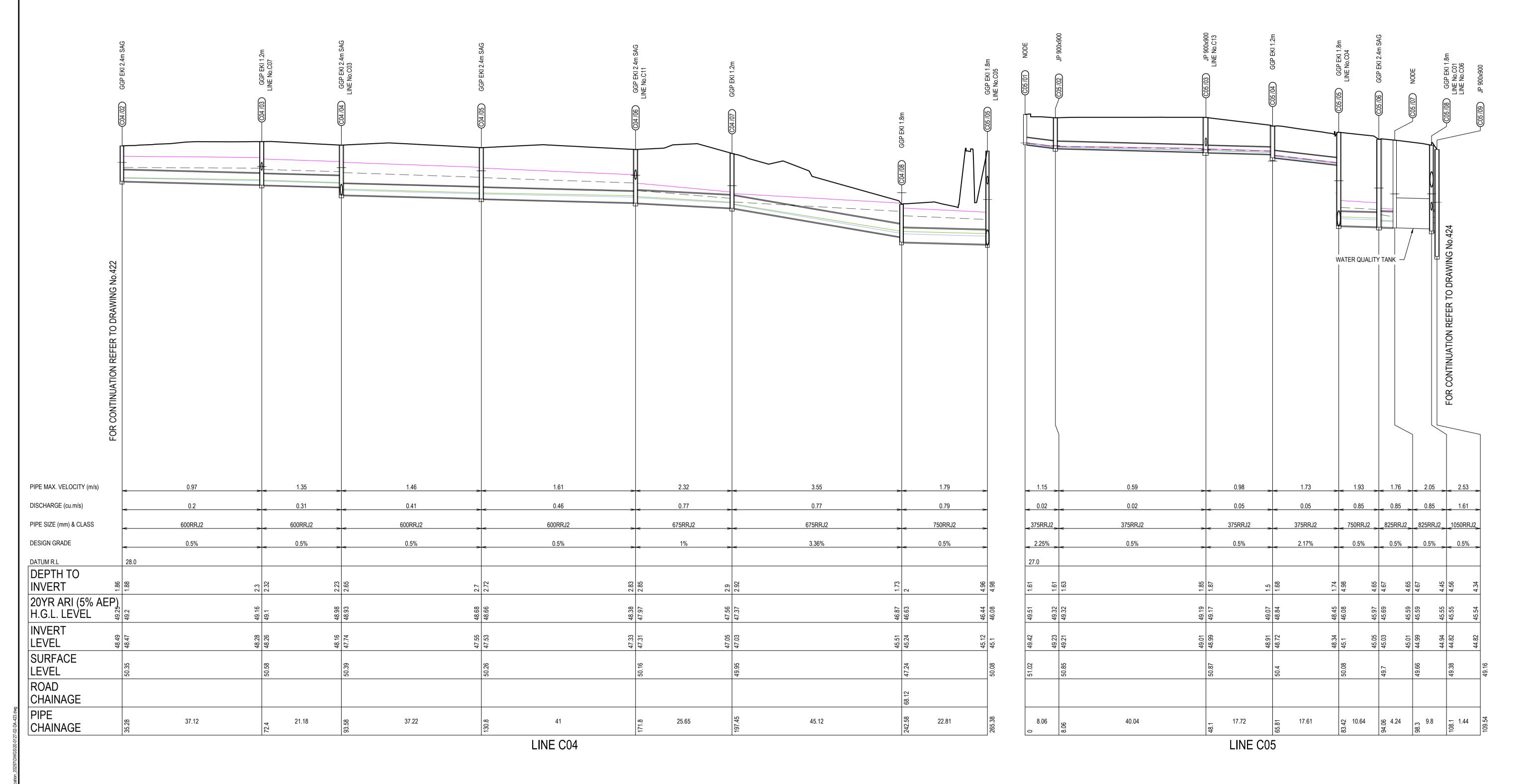


STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK **ROAD & DRAINAGE DESIGN**  DRAINAGE LONG SECTIONS **SHEET 13 OF 17** 

Project No.	Set No.	Milestone	Plan	Revis
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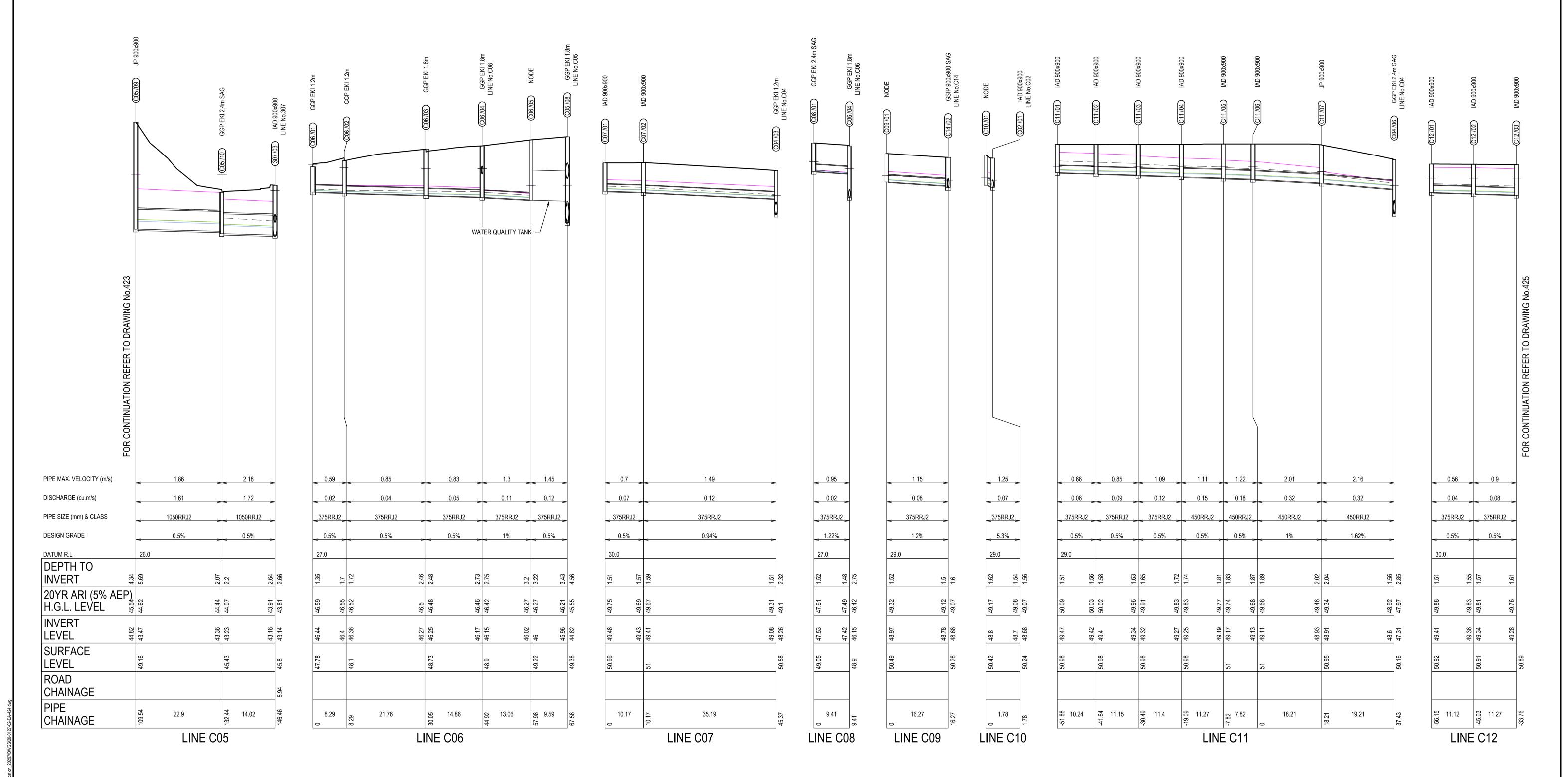




STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK **ROAD & DRAINAGE DESIGN** 

DRAINAGE LONG SECTIONS SHEET 14 OF 17 Project No. 20-0127 Plan **423** 

LEG	END
PROPOSED PIPE FINISHED DESIGN SURFACE LEVEL FUTURE PIT & PIPES 6 MONTH HGL LEVEL 1 YEAR HGL LEVEL 100 YEAR HGL LEVEL 1:20 YR ARI YEAR HGL LEVEL	

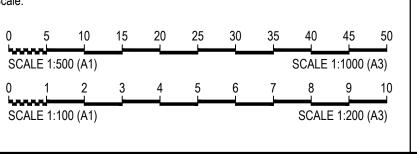


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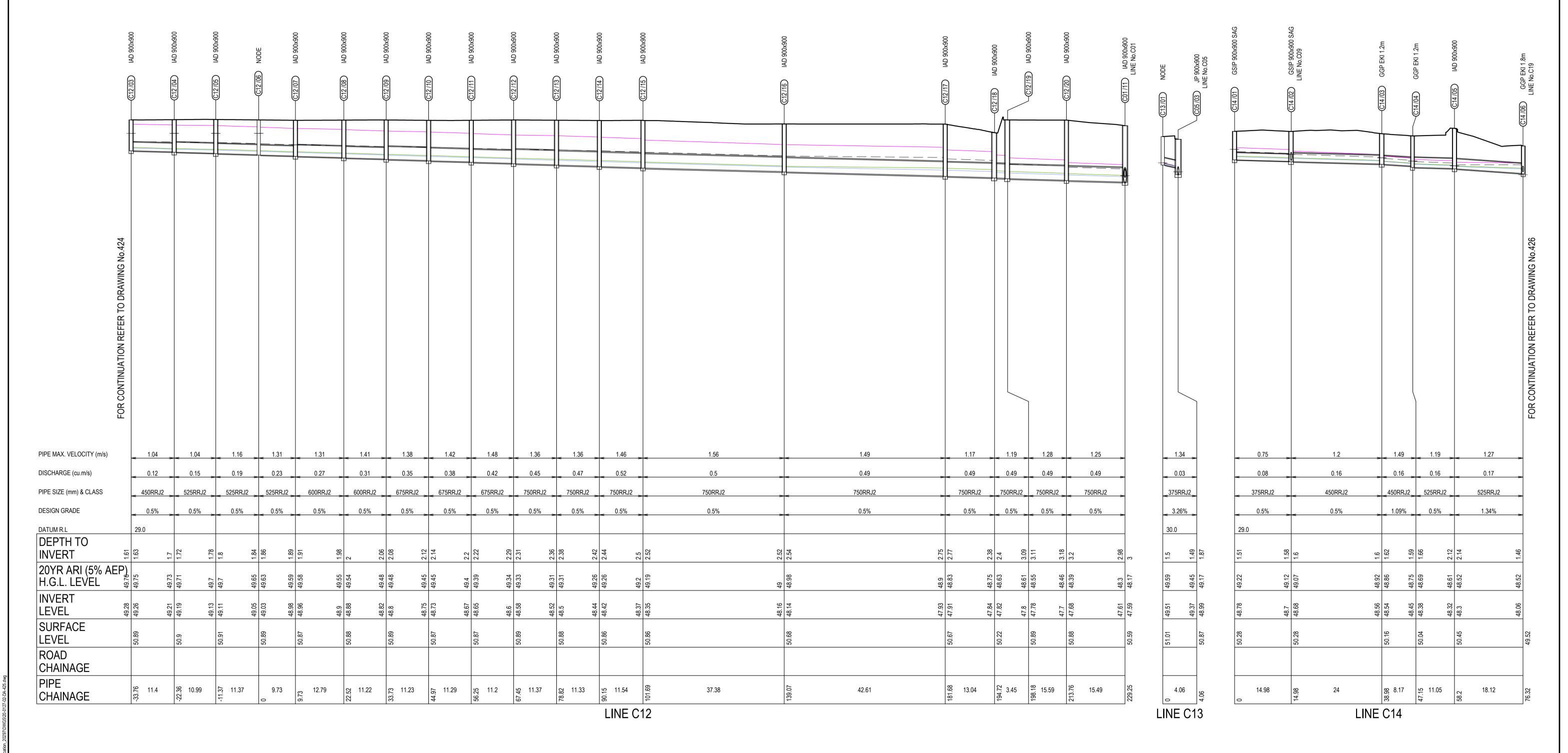




STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK **ROAD & DRAINAGE DESIGN**  DRAINAGE LONG SECTIONS **SHEET 15 OF 17** 

424

LEG	END
PROPOSED PIPE FINISHED DESIGN	
SURFACE LEVEL FUTURE PIT & PIPES	
6 MONTH HGL LEVEL 1 YEAR HGL LEVEL	
100 YEAR HGL LEVEL 1:20 YR ARI YEAR HGL LEVEL	



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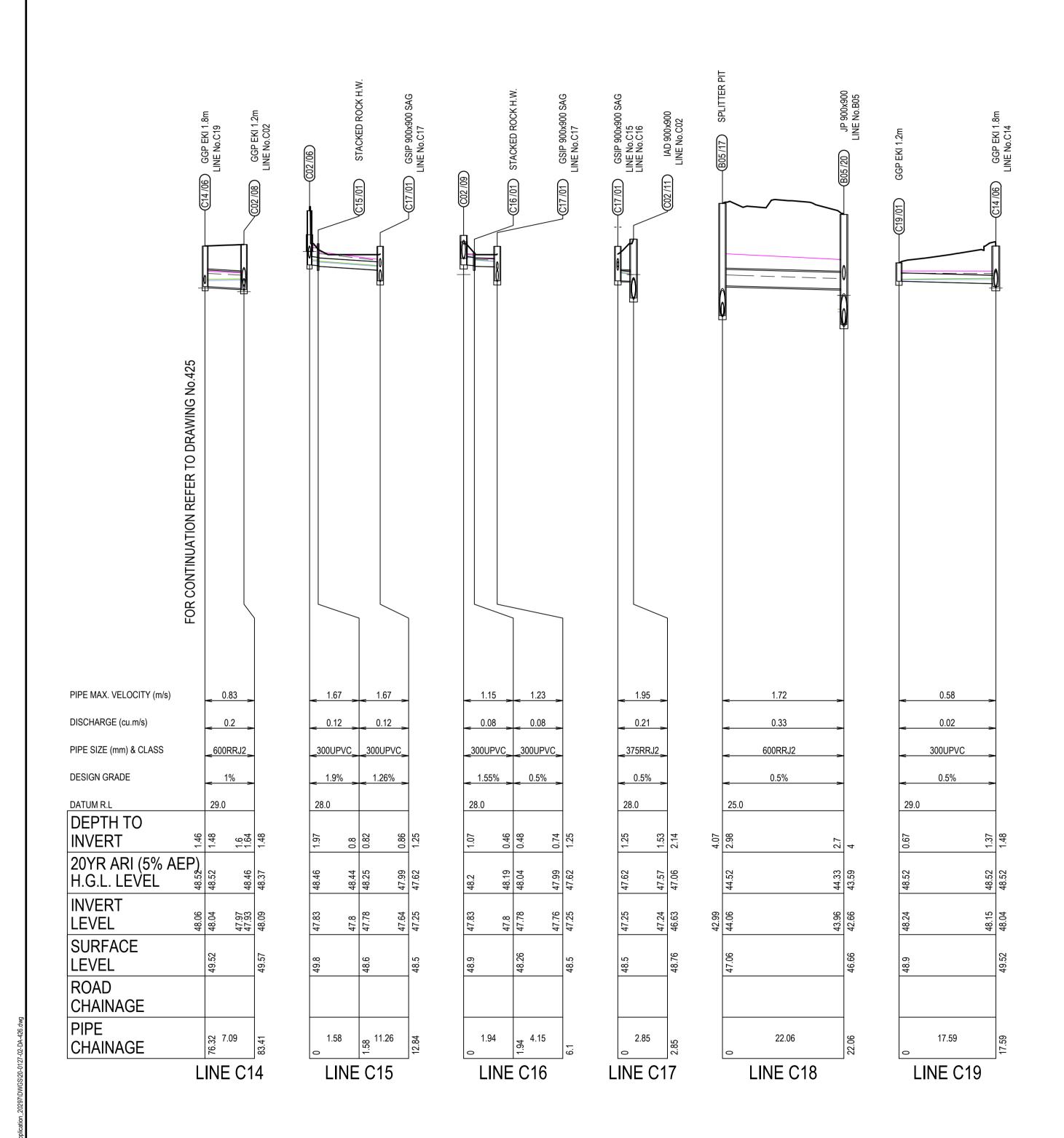




STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK **ROAD & DRAINAGE DESIGN**  DRAINAGE LONG SECTIONS SHEET 16 OF 17

Project No.	Set No.	Milestone	Plan	Re
20-0127	02	DA	425	

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PROPOSED PIPE FINISHED DESIGN	
SURFACE LEVEL	
FUTURE PIT & PIPES	
6 MONTH HGL LEVEL	
1 YEAR HGL LEVEL	
100 YEAR HGL LEVEL	
1:20 YR ARI YEAR HGL LEVEL	



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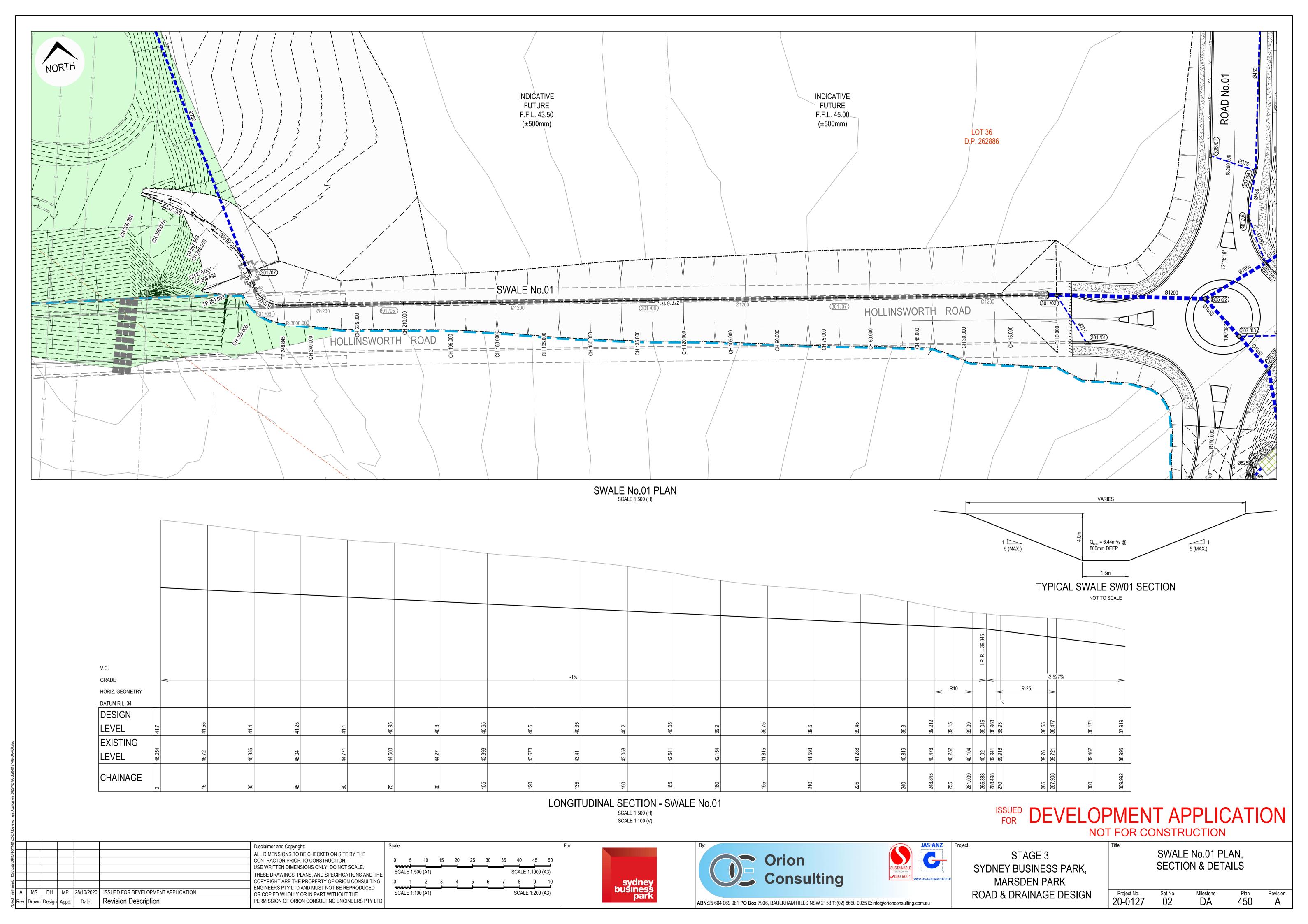




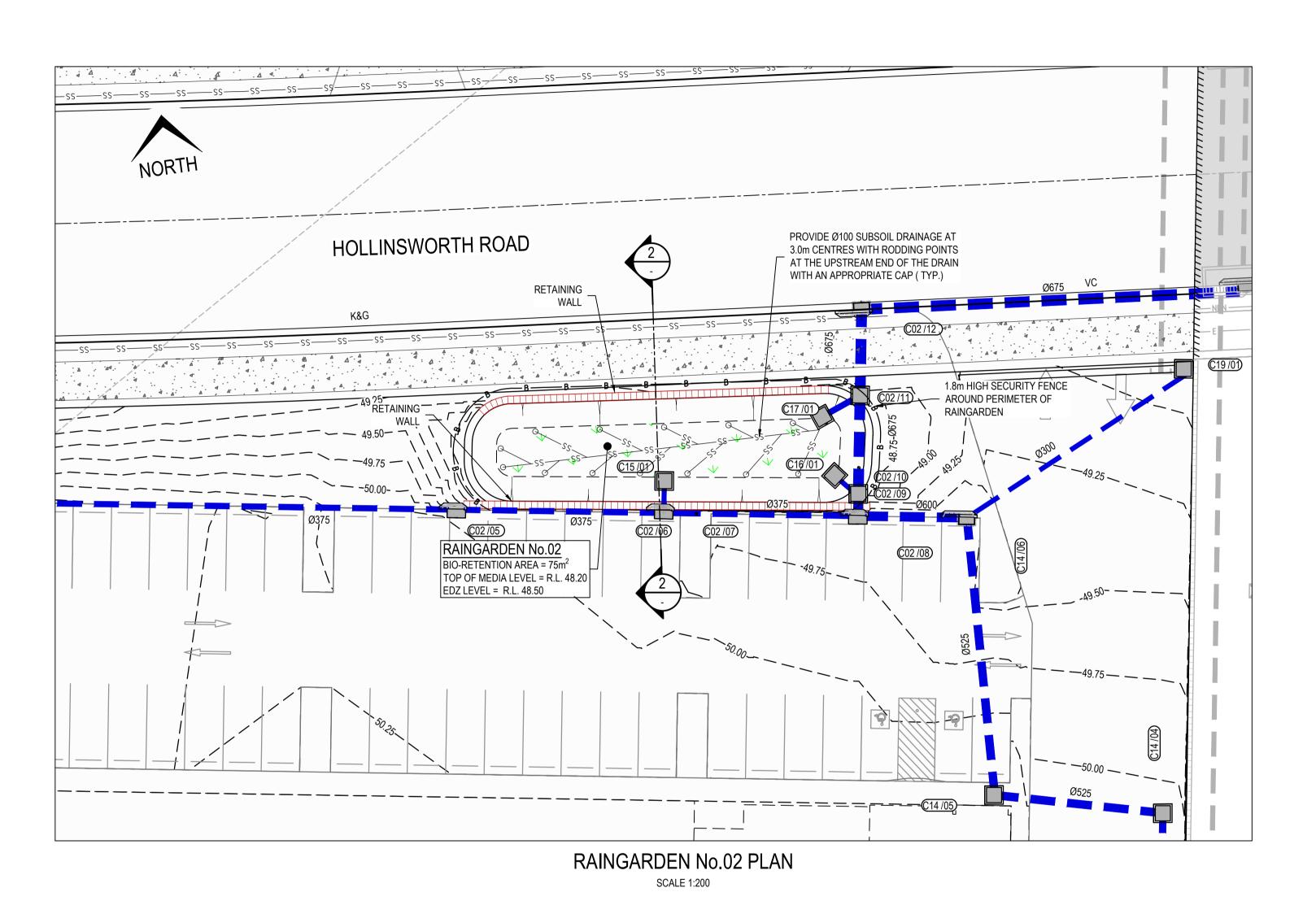


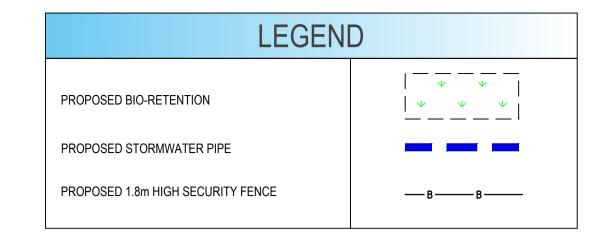
STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK **ROAD & DRAINAGE DESIGN**  DRAINAGE LONG SECTIONS SHEET 17 OF 17

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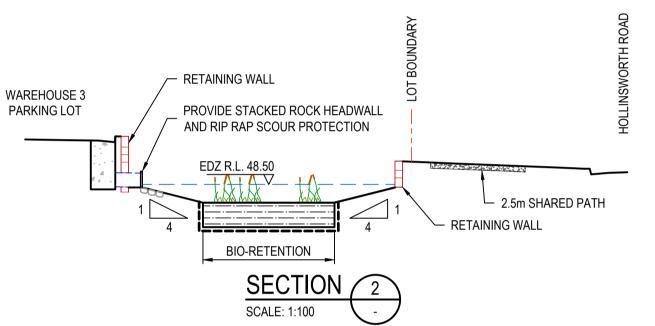






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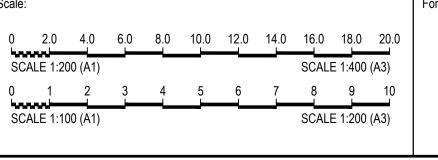
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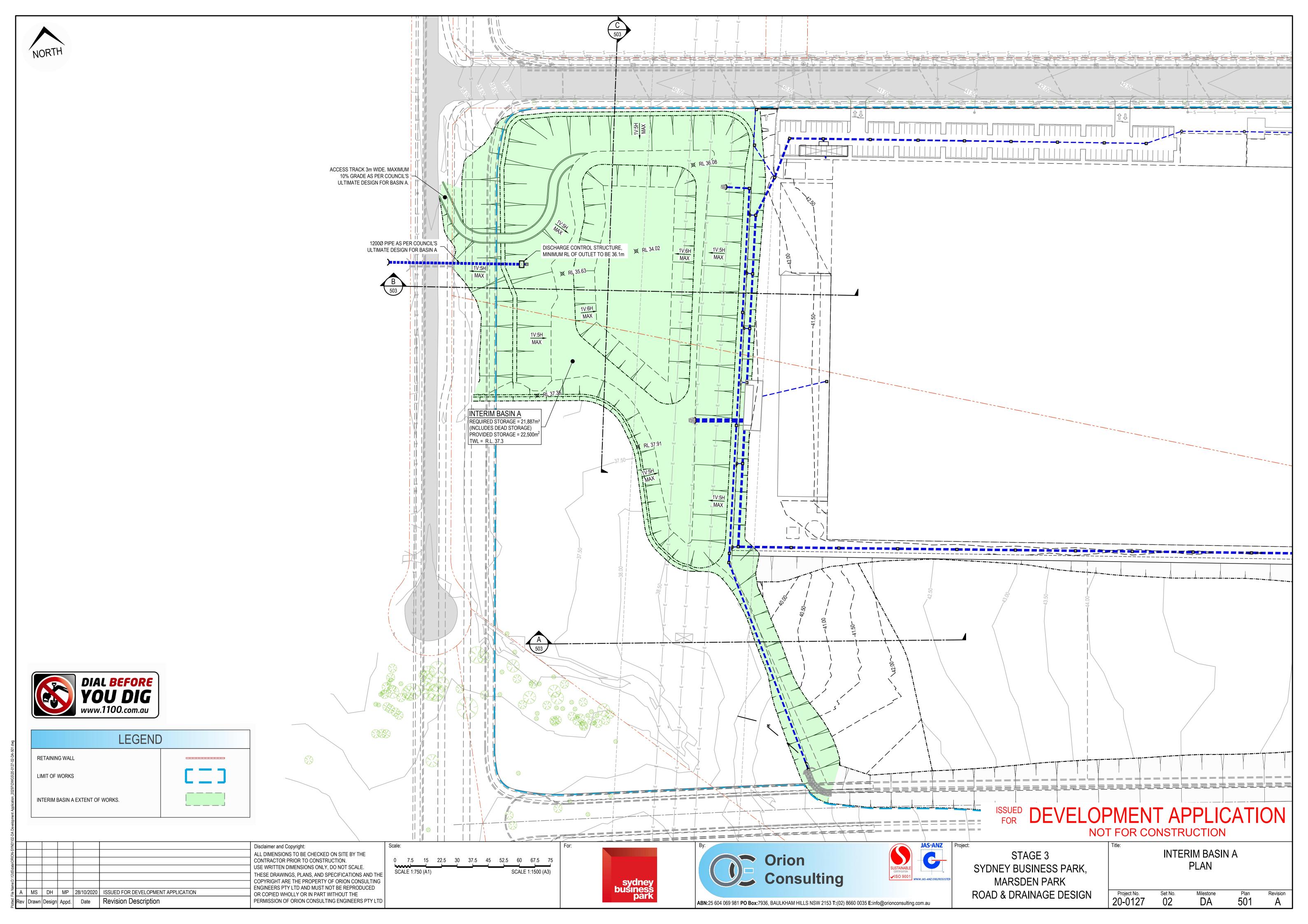


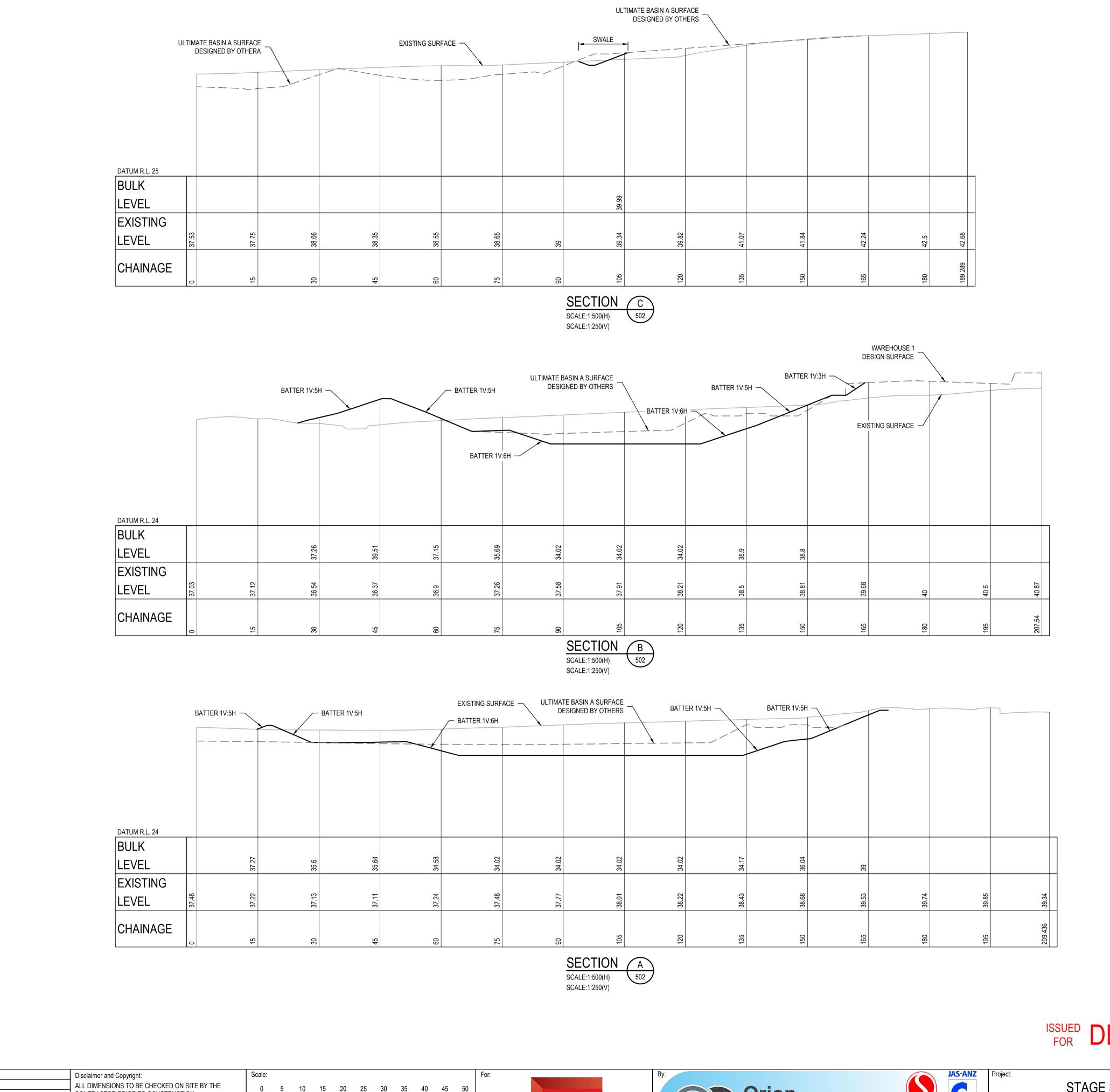




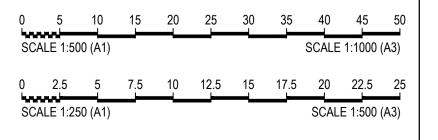


STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK ROAD & DRAINAGE DESIGN RAINGARDEN No.01 & 02, PLAN, SECTION & DETAILS





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STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK ROAD & DRAINAGE DESIGN

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