

PROPOSED INDUSTRIAL WAREHOUSE
65 HUNTINGWOOD DRIVE, HUNTINGWOOD
CIVIL ENGINEERING PACKAGE



DRAWING SCHEDULE	
DA1101	COVER PAGE & DRAWING SCHEDULE
DA1201	SPECIFICATION SHEET
DA1301	KEY PLAN
DA2101	CONCEPT SEDIMENT & EROSION CONTROL PLAN - STAGE 1
DA2102	CONCEPT SEDIMENT & EROSION CONTROL PLAN - STAGE 2
DA2701	CONCEPT SEDIMENT & EROSION CONTROL DETAILS
DA3101	CONCEPT BULK EARTHWORKS CONTOUR PLAN
DA3201	CONCEPT BULK EARTHWORKS CUT & FILL PLAN
DA3501	CONCEPT BULK EARTHWORKS SECTIONS
DA4101	CONCEPT SITEWORKS & STORMWATER MANAGEMENT PLAN SHEET 1
DA4102	CONCEPT SITEWORKS & STORMWATER MANAGEMENT PLAN SHEET 2
DA4103	CONCEPT SITEWORKS & STORMWATER MANAGEMENT PLAN SHEET 3
DA4104	CONCEPT SITEWORKS & STORMWATER MANAGEMENT PLAN SHEET 4
DA4111	CONCEPT SITEWORKS & STORMWATER MANAGEMENT BASEMENT (B2) PLAN
DA4301	CONCEPT STORMWATER WSUD CATCHMENT PLAN
DA4311	CONCEPT EXISTING OSD CATCHMENT PLAN
DA4312	CONCEPT PROPOSED OSD CATCHMENT PLAN
DA4701	CONCEPT STORMWATER DRAINAGE DETAILS SHEET 1
DA4702	CONCEPT STORMWATER DRAINAGE DETAILS SHEET 2
DA4711	CONCEPT STORMWATER DRAINAGE OSD TANK DETAILS SHEET 1
DA4712	CONCEPT STORMWATER DRAINAGE OSD TANK DETAILS SHEET 2

LOCALITY PLAN
NOT TO SCALE - COURTESY OF SIX MAPS

STATE SIGNIFICANT DEVELOPMENT APPLICATION

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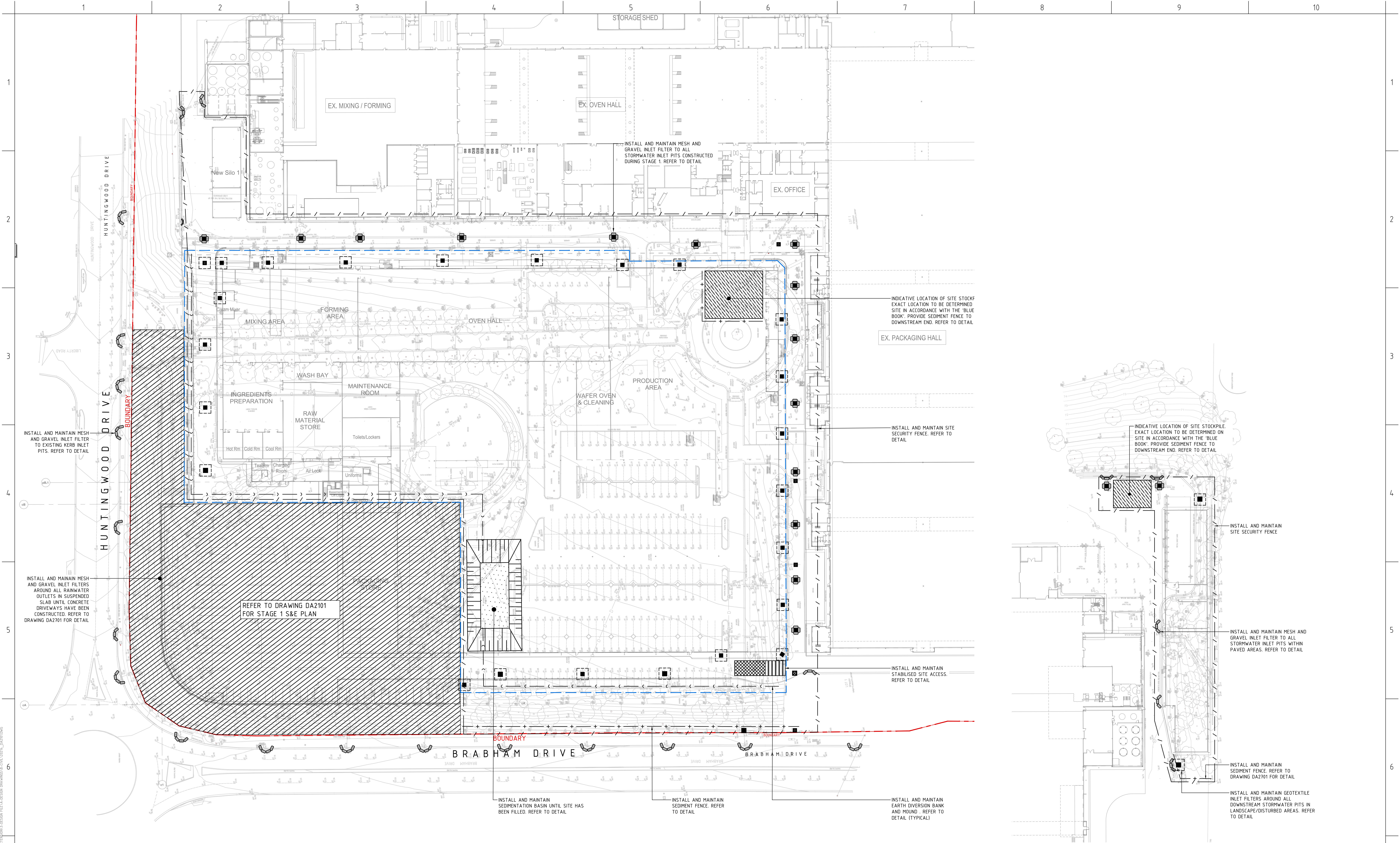
SHEET 4

SHEET 1

SHEET 2

STATE SIGNIFICANT DEVELOPMENT APPLICATION

IMPORTANT				NOTES			
DO NOT SCALE OFF THIS DRAWING. USE DIMENSIONS & DIMENSIONS ONLY.				DO NOT SCALE OFF THIS DRAWING. USE DIMENSIONS & DIMENSIONS ONLY.			
DRAWINGS TO BE READ IN CONJUNCTION WITH SPECIFICATION.				DRAWINGS TO BE READ IN CONJUNCTION WITH SPECIFICATION.			
THE INFORMATION ON THIS DRAWING REMAINS THE PROPERTY OF SPARKS + PARTNERS CONSULTING ENGINEERS. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF SPARKS + PARTNERS CONSULTING ENGINEERS.				THE INFORMATION ON THIS DRAWING REMAINS THE PROPERTY OF SPARKS + PARTNERS CONSULTING ENGINEERS. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF SPARKS + PARTNERS CONSULTING ENGINEERS.			
DATE		AMENDMENT		INIT		REV	
19.02.21		50% ISSUE		DD		1	
12.03.21		90% ISSUE		DD		2	
29.03.21		SSDA ISSUE		DD		3	
04.06.21		SSDA ISSUE		DD		4	
DATE		AMENDMENT		INIT		REV	



AS SHOWN

IMPORTANT

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- DRAWINGS TO BE READ IN CONJUNCTION WITH SPECIFICATION.
- THE INFORMATION ON THIS DRAWING REMAINS THE PROPERTY OF SPARKS + PARTNERS CONSULTING ENGINEERS. REPRODUCTION OF THE WHOLE OR PART OF THE DRAWING CONSTITUTES AN INFRINGEMENT OF COPYRIGHT.

REFERENCES

NORTH POINT

DATE	AMENDMENT	INIT	REV	DATE	AMENDMENT	INIT	REV
19.02.21	50% ISSUE	DD	1				
12.03.21	90% ISSUE	DD	2				
29.03.21	SSDA ISSUE	DD	3				
04.06.21	SSDA ISSUE	DD	4				

STRUCTURAL

MECHANICAL

ELECTRICAL

CIVIL

SPARKS AND PARTNERS CONSULTING ENGINEERS

CLIENT

BUILDER

FDC

PROJECT

PROPOSED INDUSTRIAL WAREHOUSE
65 HUNTINGWOOD DRIVE, HUNTINGWOOD
CIVIL ENGINEERING PACKAGE

ARCHITECT

hla architects

SPARKS + PARTNERS CONSULTING ENGINEERS
HYDRAULIC | CIVIL | FIRE

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https://sparksandpartners.com.au/

FPA
FIRE PROTECTION ASSOCIATION
CORPORATE MEMBER

DNV-GL
DESIGN VERIFICATION
CORPORATE MEMBER

HCAA

DRAWING TITLE

CIVIL DESIGN
CONCEPT SEDIMENT & EROSION
CONTROL PLAN - STAGE 1

DATE	DRAWN	DESIGNED	CHECKED	BB
FEB 2021 <td>MG<td>DD<td></td><td></td></td></td>	MG <td>DD<td></td><td></td></td>	DD <td></td> <td></td>		

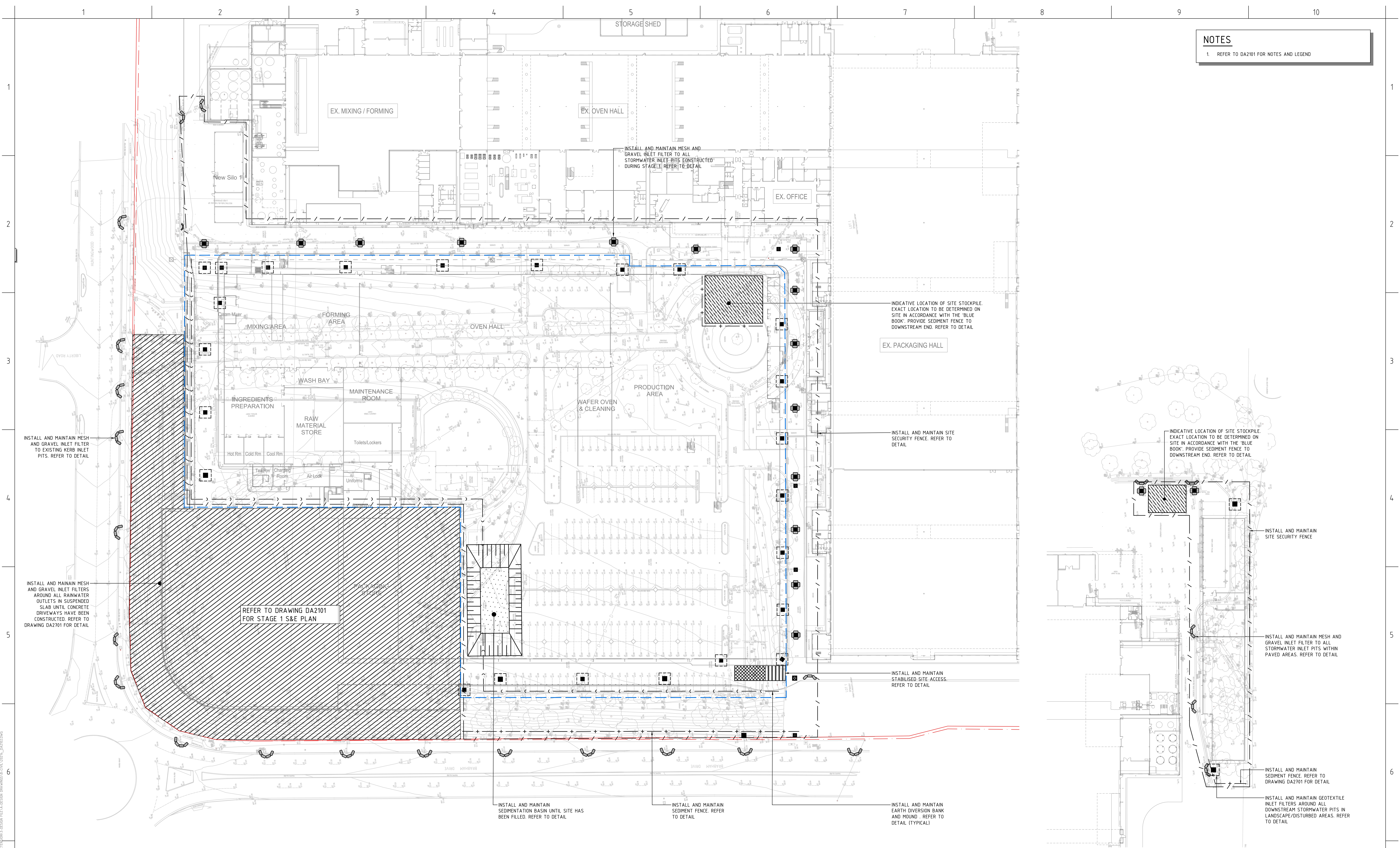
PROJECT No	SCALE	SIZE	REVISION
20214	1:500	B1	

DRAWING No

DA2101

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\\12 - PROJECTS\2021\2021 - 65 HUNTINGWOOD - MANUFACTURING EXTENSION - DESIGN FILE\A-DESIGN DRAWINGS\A-PLAN\A-PLAN_STAGE1.DWG



NOTES

1. REFER TO DA2101 FOR NOTES AND LEGEND

AS SHOWN

7

19.02.21 50% ISSUE

12.03.21 90% ISSUE

29.03.21 SSDA ISSUE

04.06.21 SSDA ISSUE

DATE

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STRUCTURAL

MECHANICAL

ELECTRICAL

CIVIL

SPARKS AND PARTNERS CONSULTING ENGINEERS

CLIENT

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PROJECT

PROPOSED INDUSTRIAL WAREHOUSE

65 HUNTINGWOOD DRIVE, HUNTINGWOOD

CIVIL ENGINEERING PACKAGE

ARCHITECT

hlc architects

SPARKS+PARTNERS

CONSULTING ENGINEERS

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DATE

DESIGN

SCALE

AS SHOWN

20214

DA2102

4

DRAWING TITLE

CIVIL DESIGN

CONCEPT SEDIMENT & EROSION

CONTROL PLAN - STAGE 2

DATE

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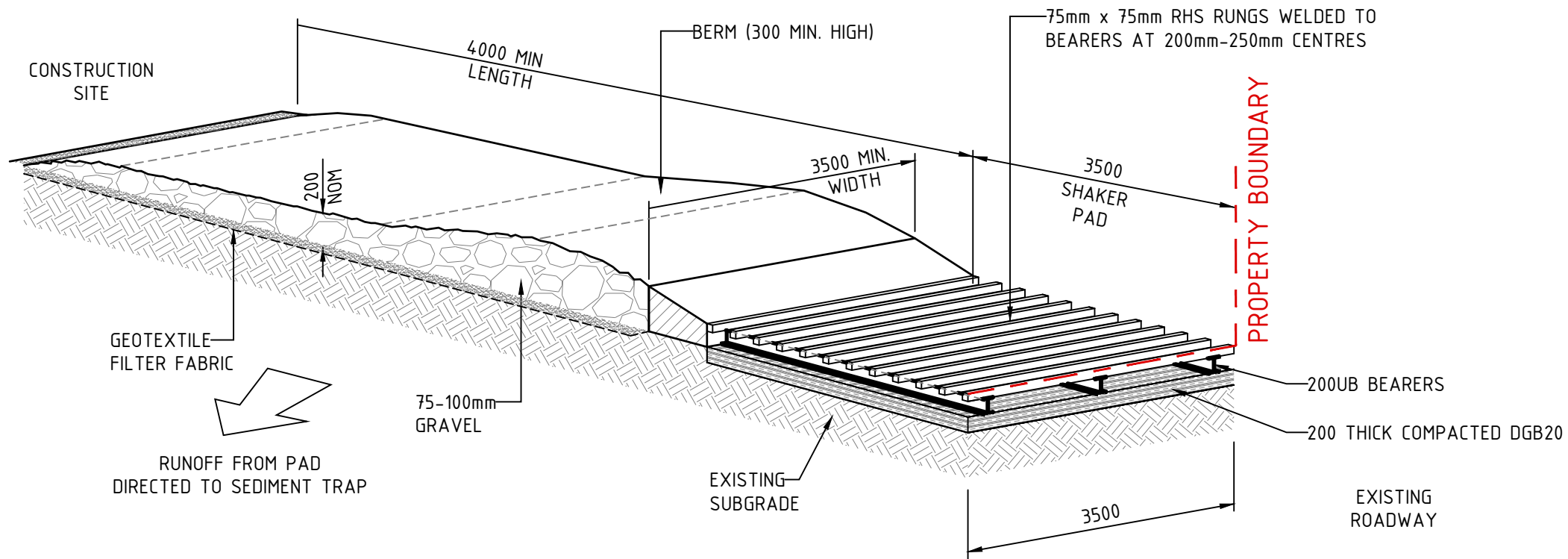
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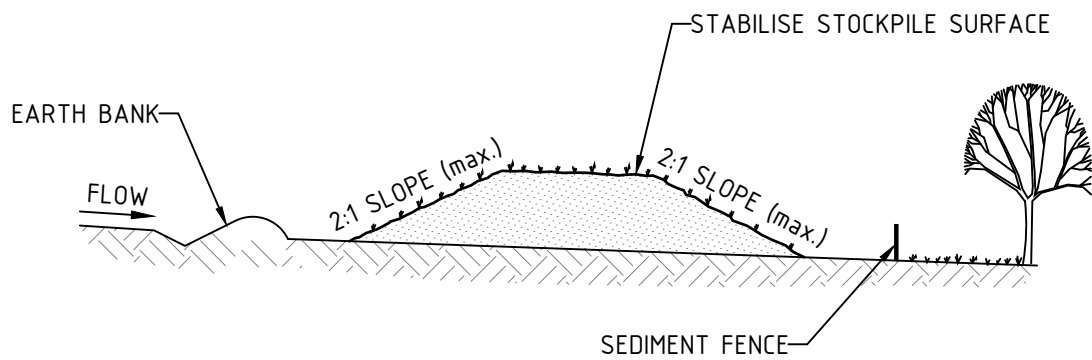
STATE SIGNIFICANT DEVELOPMENT APPLICATION



STABILISED SITE ACCESS WITH SHAKER PAD
NOT TO SCALE

MAINTENANCE

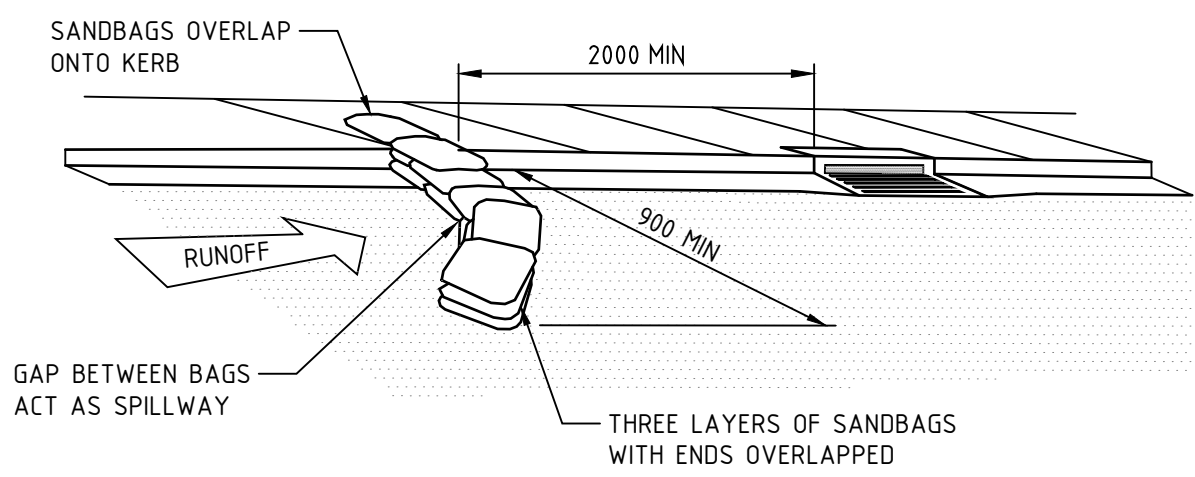
- THE TEMPORARY ACCESS SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY.
- THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL GRAVEL AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.
- INSTALL BARRIER ON EITHER SIDE OF SHAKER PAD TO ENSURE VEHICLES ARE GUIDED ON TO THE PAD.
- INVERT OF SHAKER PAD TO BE DRAINED VIA AGRICULTURAL PIPE WRAPPED IN GEOTEXTILE FABRIC.



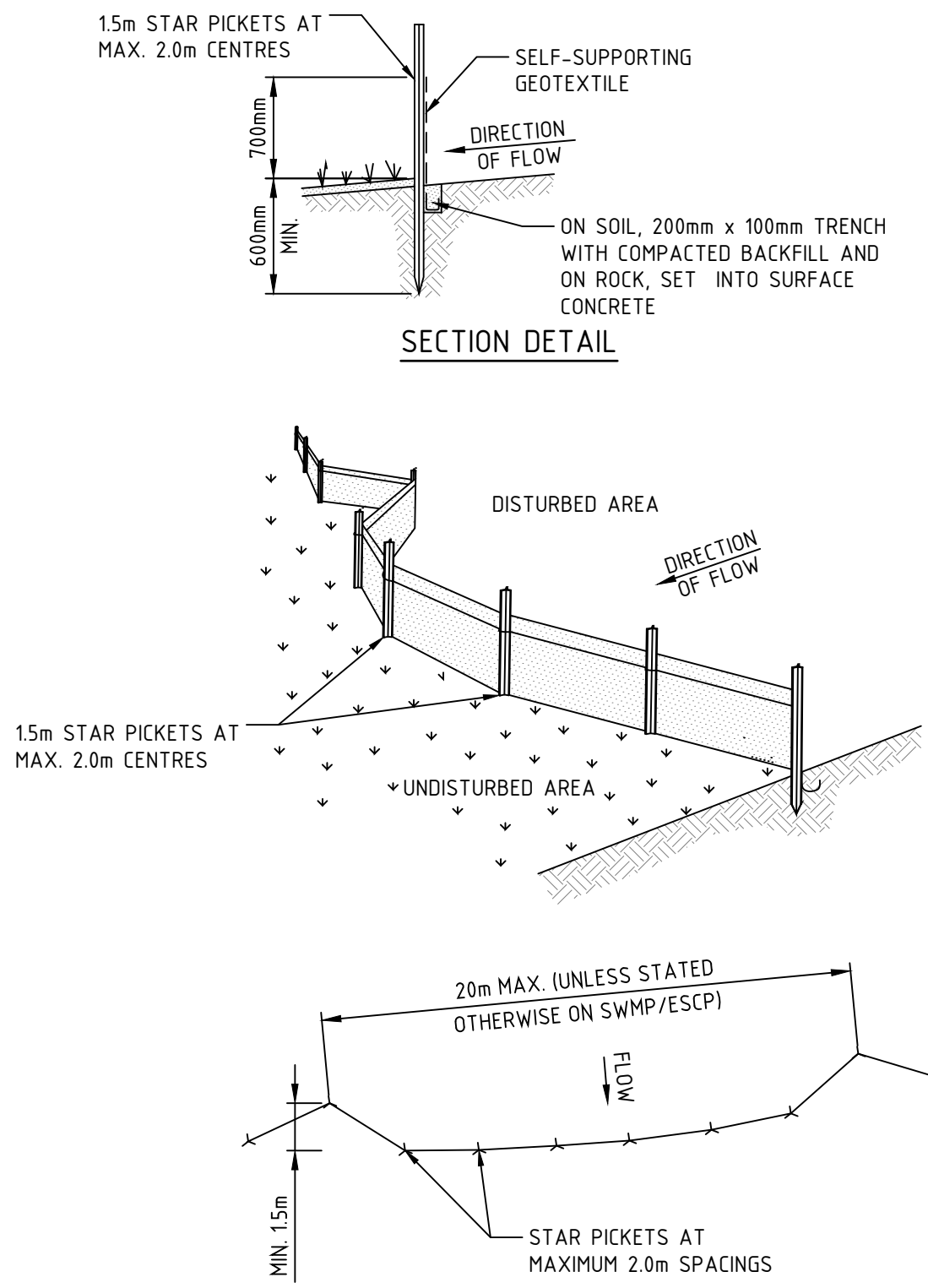
STOCKPILE
NOT TO SCALE

NOTES:

- 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.
- WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
- CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.



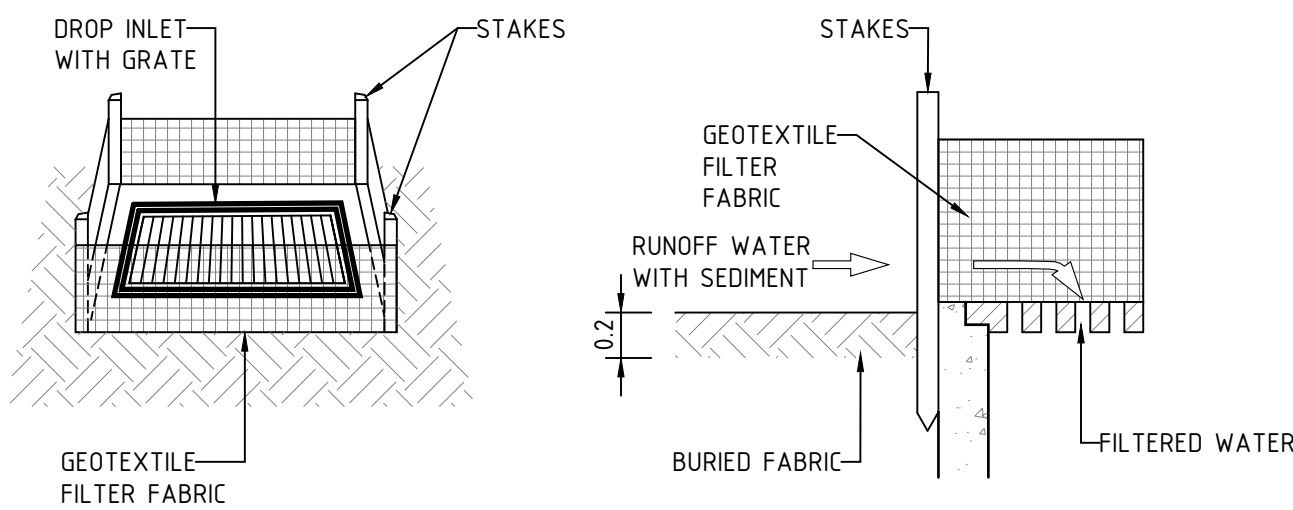
SEDIMENT TRAP FOR KERB INLET
(ON GRADE - SANDBAG)
NOT TO SCALE



SEDIMENT FENCE
NOT TO SCALE

NOTES:

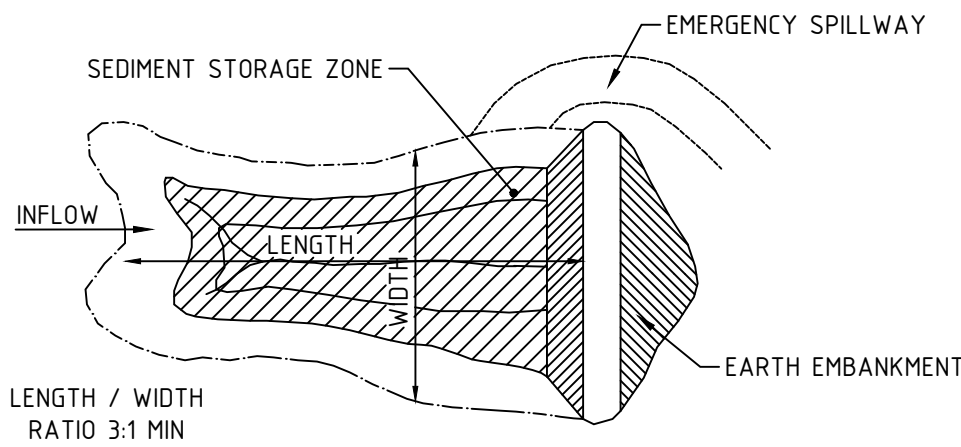
- CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50L/s IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
- CUT A 200mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
- DRIVE 15m LONG STAR PICKETS INTO GROUND AT 2.0m INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
- 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.
- JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
- BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.



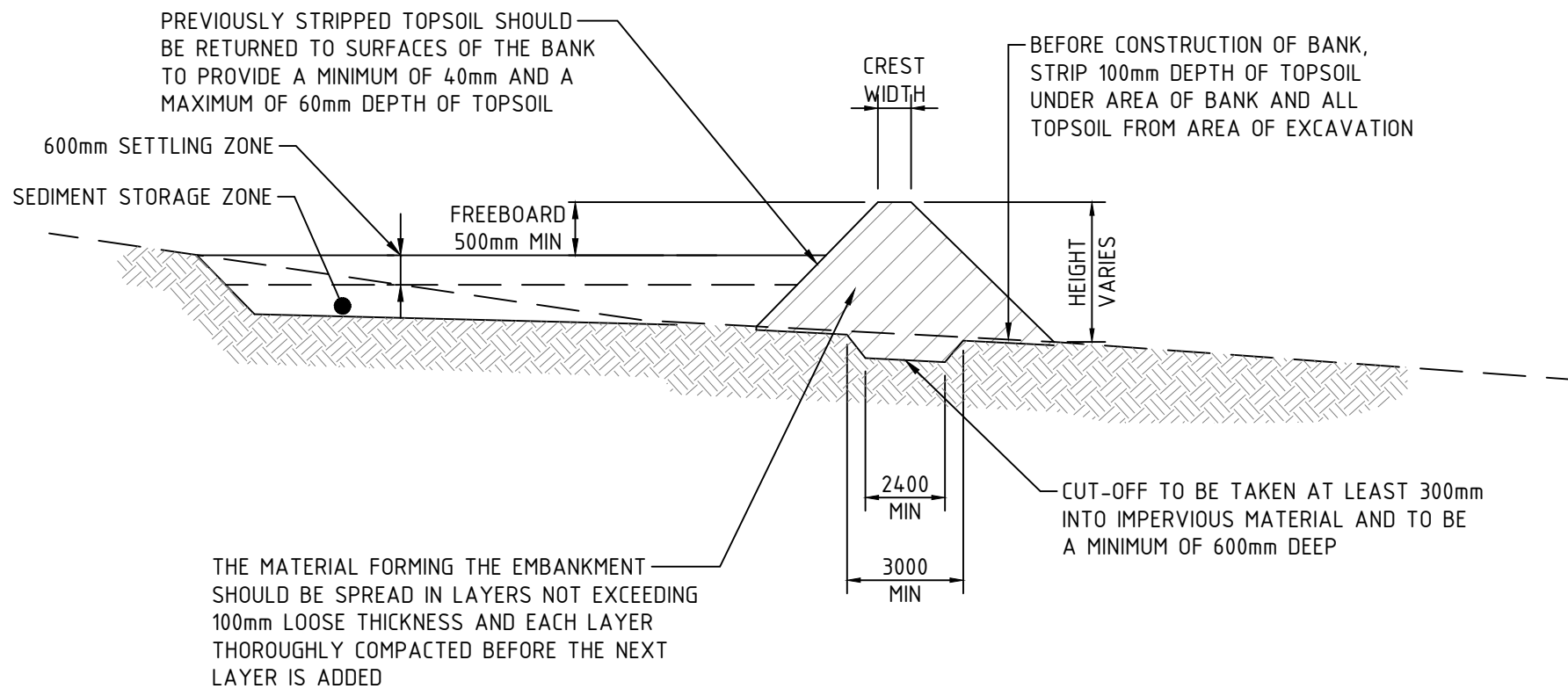
GEOTEXTILE INLET FILTER DROP INLET SEDIMENT TRAP
NOT TO SCALE

NOTES:

- FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
- CUT A 200mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
- DRIVE 10m LONG STAR PICKETS INTO GROUND AT THE FOUR CORNERS OF PIT WALLS. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
- 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.
- JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
- BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.



SEDIMENT BASIN WET (TYPICAL) CROSS PLAN - TYPE D AND F SOILS
NTS



SEDIMENT BASIN WET (TYPICAL) CROSS SECTION - TYPE D AND F SOILS
NTS

CONSTRUCTION NOTES:

- REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA.
- CONSTRUCT A CUT-OFF TRENCH 500mm DEEP AND 1200mm WIDE ALONG THE CENTERLINE OF THE EMBANKMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST.
- MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIAL WITH EQUIPMENT AS SPECIFIED IN THE SWMP TO 95% STANDARD PROCTOR DENSITY.
- SELECT FILL FOLLOWING THE SWMP THAT IS FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL.
- PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100mm TO HELP BOND COMPACTED FILL TO THE EXISTING SUBSTRATE.
- SPREAD THE FILL IN 100mm TO 150mm LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT FOLLOWING THE SWMP.
- CONSTRUCT THE EMERGENCY SPILLWAY.
- REHABILITATE THE STRUCTURE FOLLOWING THE SWMP.

SEDIMENT BASIN NOTES:

SEDIMENT BASIN CATCHMENT AREA	= 5.4Ha
REQUIRED SETTLING ZONE	= 917m³
REQUIRED STORAGE ZONE	= 458m³
REQUIRED BASIN VOLUME	= 1375m³
BASE DIMENSION	= 23m (L) x 10m (W)
TOP DIMENSION	= 39m (L) x 19m (W)
MAX SIDE SLOPE	= 1V:1H
BASIN STORAGE VOLUME PROVIDED	= 1404m³
DESIGN STORM	= 80th PERCENTILE

STATE SIGNIFICANT DEVELOPMENT APPLICATION

AS SHOWN	DATE	AMENDMENT	INIT	REV	DATE	AMENDMENT	INIT	REV
REPORT ONLY	19.02.21	50% ISSUE	DD	1				
DO NOT SCALE OFF THIS DRAWING. USE DIMENSIONS & ARCHITECTURAL DRAWINGS ONLY.	12.03.21	90% ISSUE	DD	2				
DRAWINGS TO BE READ IN CONJUNCTION WITH SPECIFICATION.	29.03.21	SSDA ISSUE	DD	3				
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REFERENCES								

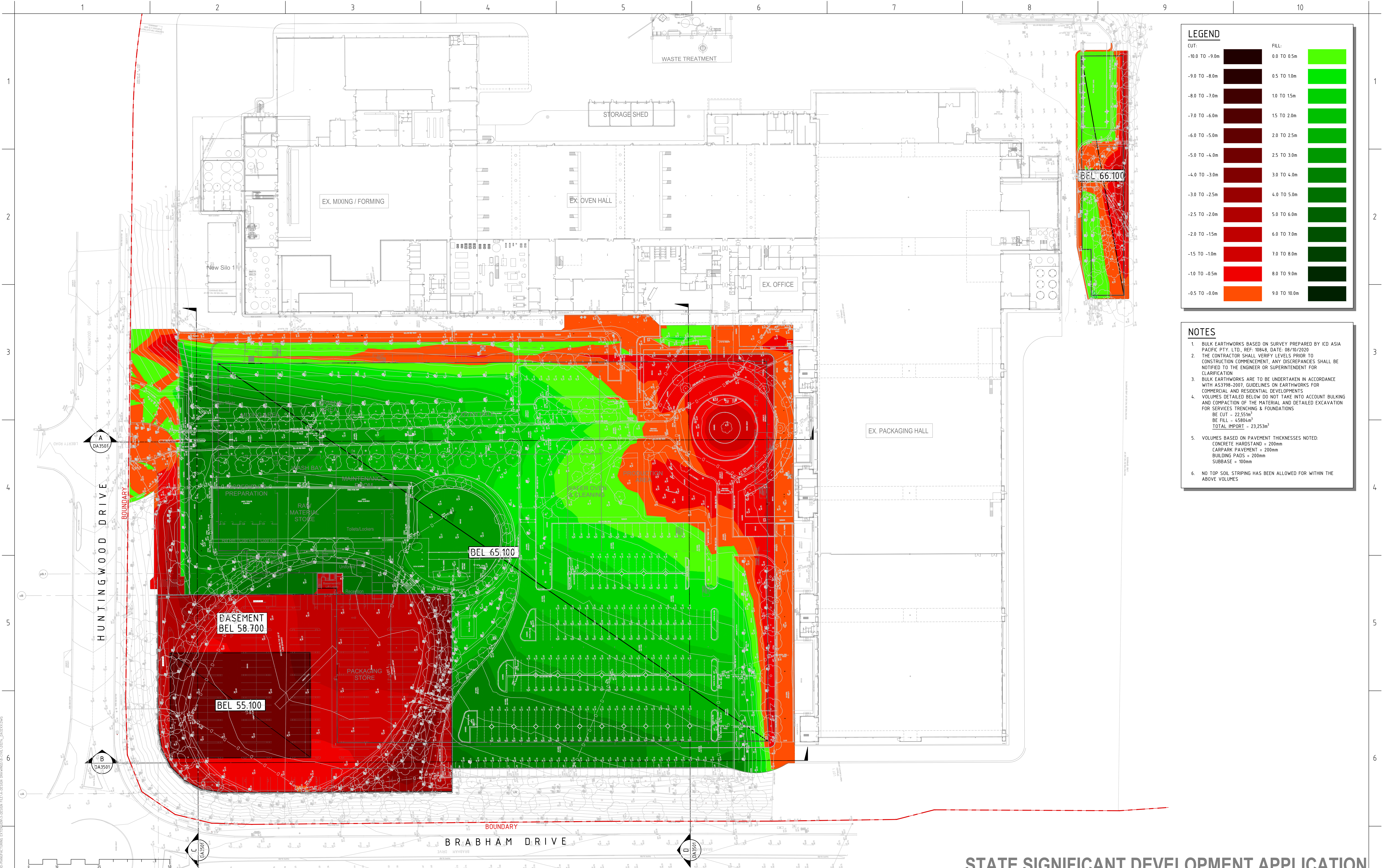
STRUCTURAL	-
MECHANICAL	-
ELECTRICAL	-
CIVIL	SPARKS AND PARTNERS CONSULTING ENGINEERS

CLIENT	
BUILDER	FDC

PROJECT	PROPOSED INDUSTRIAL WAREHOUSE 65 HUNTINGWOOD DRIVE, HUNTINGWOOD CIVIL ENGINEERING PACKAGE
ARCHITECT	hlc architects

SPARKS + PARTNERS CONSULTING ENGINEERS HYDRAULIC CIVIL FIRE	Level 1, 91 George Street Parramatta NSW 2150 P 02 9691 5033 F 02 9691 3898 E admin@sparksandpartners.com.au https://sparksandpartners.com.au/
FPA Fire Protection Australia CORPORATE MEMBER	DNV-GL DESIGN CERTIFICATION CORPORATE MEMBER
HCAA	

DRAWING TITLE	CIVIL DESIGN CONCEPT SEDIMENT & EROSION CONTROL DETAILS
DATE	FEB 2021
SCALE	MG
DESIGNED	DD
CHECKED	BB
PROJECT NO	20214
DRAWING NO	DA2701
REVISION	4



LEGEND		
CUT:		FILL:
-10.0 TO -9.0m		0.0 TO 0.5m
-9.0 TO -8.0m		0.5 TO 1.0m
-8.0 TO -7.0m		1.0 TO 1.5m
-7.0 TO -6.0m		1.5 TO 2.0m
-6.0 TO -5.0m		2.0 TO 2.5m
-5.0 TO -4.0m		2.5 TO 3.0m
-4.0 TO -3.0m		3.0 TO 4.0m
-3.0 TO -2.5m		4.0 TO 5.0m
-2.5 TO -2.0m		5.0 TO 6.0m
-2.0 TO -1.5m		6.0 TO 7.0m
-1.5 TO -1.0m		7.0 TO 8.0m
-1.0 TO -0.5m		8.0 TO 9.0m
-0.5 TO -0.0m		9.0 TO 10.0m

- NOTES**
- BULK EARTHWORKS BASED ON SURVEY PREPARED BY ICD ASIA PACIFIC PTY. LTD., REF: 10848, DATE: 08/10/2020
 - THE CONTRACTOR SHALL VERIFY LEVELS PRIOR TO CONSTRUCTION COMMENCEMENT, ANY DISCREPANCIES SHALL BE NOTIFIED TO THE ENGINEER OR SUPERINTENDENT FOR CLARIFICATION
 - BULK EARTHWORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH ASS3798-2007, GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS
 - VOLUMES DETAILED BELOW DO NOT TAKE INTO ACCOUNT BULKING AND COMPACTION OF THE MATERIAL AND DETAILED EXCAVATION FOR SERVICES TRENCHING & FOUNDATIONS
BE CUT = 22,551m³
BE FILL = 4,5804m³
TOTAL IMPORT = 23,253m³
 - VOLUMES BASED ON PAVEMENT THICKNESSES NOTED:
CONCRETE HARSTAND = 200mm
CARPARK PAVEMENT = 200mm
BUILDING PADS = 200mm
SUBBASE = 100mm
 - NO TOP SOIL STRIPING HAS BEEN ALLOWED FOR WITHIN THE ABOVE VOLUMES

IMPORTANT:

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REFERENCES

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04.06.21	SSDA ISSUE	DD	4				

STRUCTURAL

MECHANICAL

ELECTRICAL

CIVIL

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CLIENT

BUILDER

FDC

PROJECT

PROPOSED INDUSTRIAL WAREHOUSE
65 HUNTINGWOOD DRIVE, HUNTINGWOOD
CIVIL ENGINEERING PACKAGE

ARCHITECT

hla architects

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CONSULTING ENGINEERS
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FPA
FIRE PROTECTION ASSOCIATION
CORPORATE MEMBER

DNV-GL
DESIGN VERIFICATION
CORPORATE MEMBER

HCAA

DRAWING TITLE

CIVIL DESIGN
CONCEPT BULK EARTHWORKS CUT
& FILL PLAN

DATE	DRAWN	DESIGNED	CHECKED	BB
FEB 2021	MG	DD		

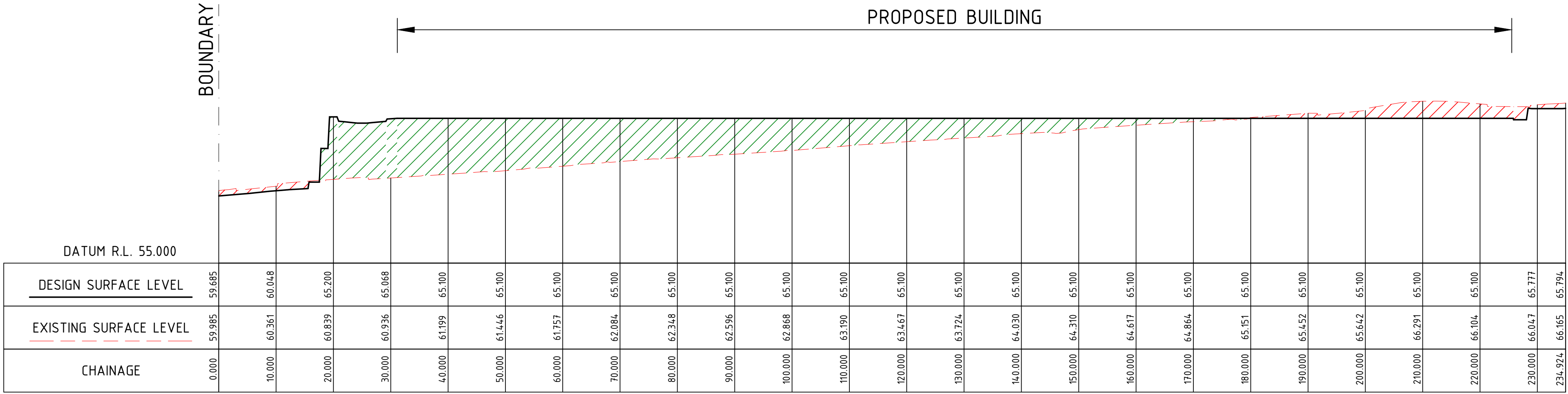
PROJECT No	DRAWING No	REVISION
20214	DA3201	4

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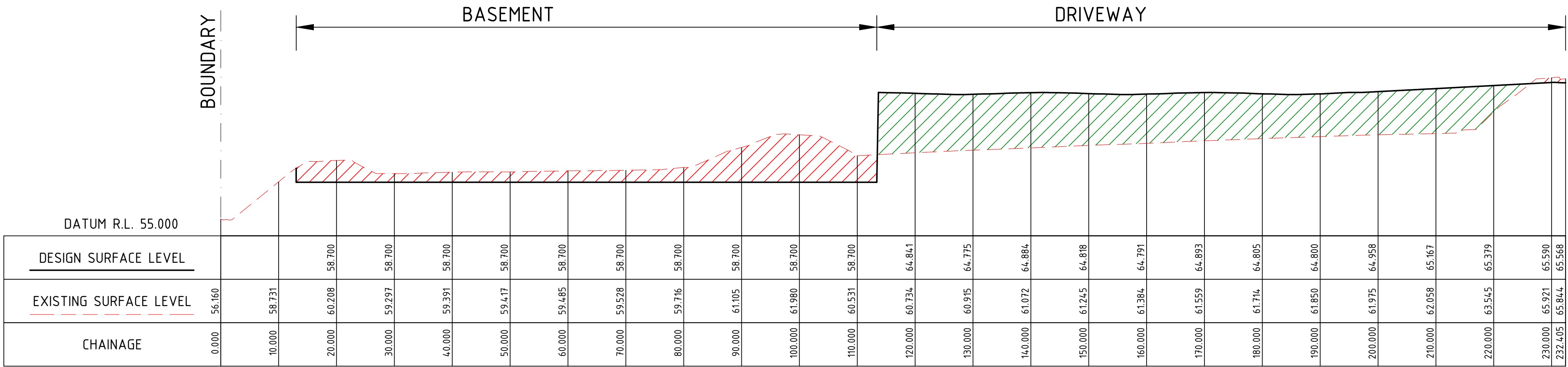
LEGEND

CUT AREA

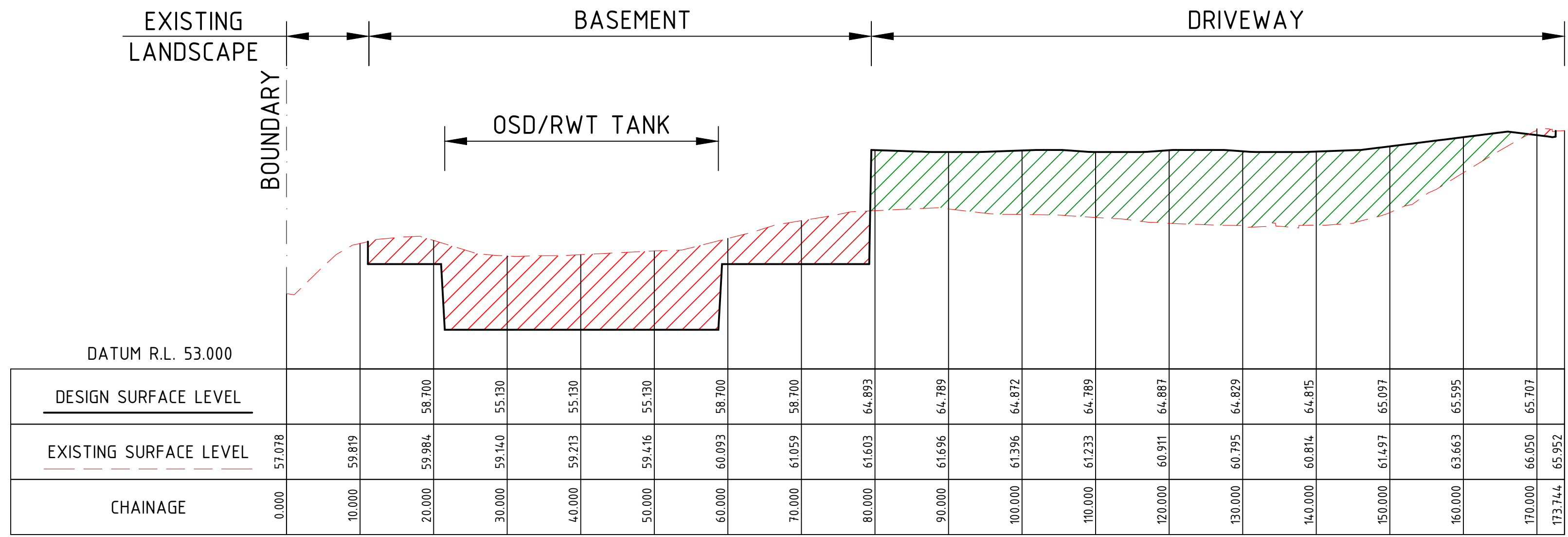
FILL AREA



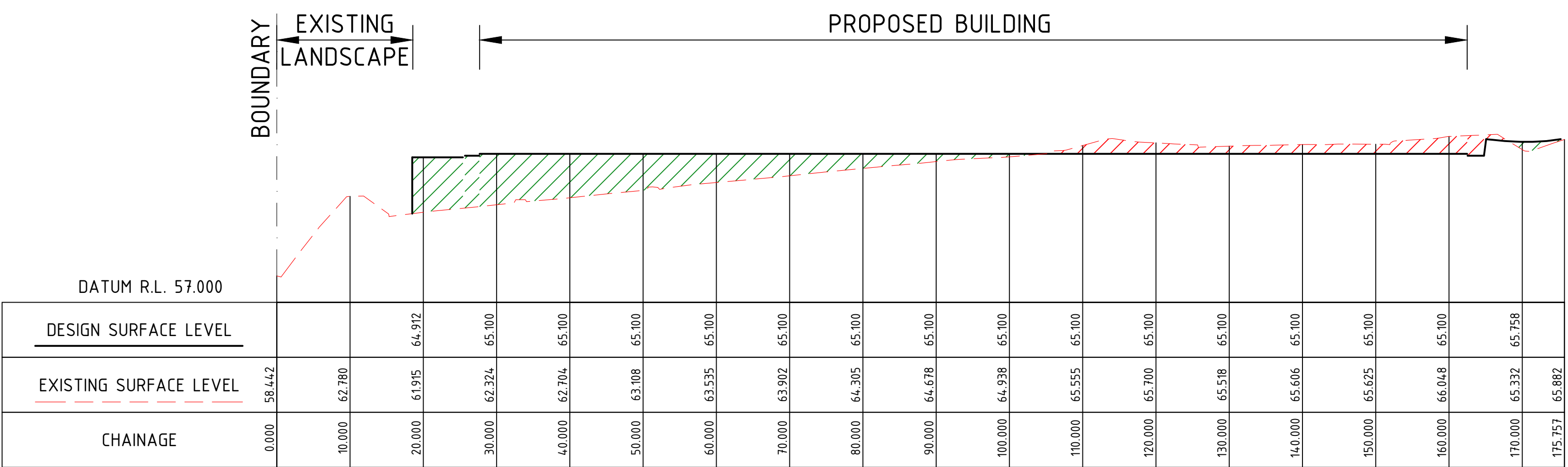
BULK EARTHWORKS - SECTION A
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:200



BULK EARTHWORKS - SECTION B
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:200



BULK EARTHWORKS - SECTION C
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:200



BULK EARTHWORKS - SECTION D
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:200

STATE SIGNIFICANT DEVELOPMENT APPLICATION

AS SHOWN	NORTH POINT	DATE	AMENDMENT	INIT	REV	DATE	AMENDMENT	INIT	REV
REPORT FOR		19.02.21	50% ISSUE	DD	1				
• DO NOT SCALE OFF THIS DRAWING. USE DIMENSIONS & ARCHITECTURAL DRAWING ONLY		12.03.21	90% ISSUE	DD	2				
• DRAWINGS TO BE READ IN CONJUNCTION WITH SPECIFICATION		29.03.21	SSDA ISSUE	DD	3				
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REFERENCES									

STRUCTURAL
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ELECTRICAL
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PROJECT
PROPOSED INDUSTRIAL WAREHOUSE
65 HUNTINGWOOD DRIVE, HUNTINGWOOD
CIVIL ENGINEERING PACKAGE

ARCHITECT
hla architects

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https://sparksandpartners.com.au/
FPA
Fire Protection Association of Australia
COMPLYING MEMBER
DNV-GL
DESIGN VERIFICATION
202001
HCAA

DRAWING TITLE CIVIL DESIGN CONCEPT BULK EARTHWORKS SECTIONS			
DATE FEB 2021	DRAWN SCALE AS SHOWN	DESIGNED MG	CHECKED DD
PROJECT NO 20214	DRAWING NO DA3501	SIZE B1	REVISION 4



— STORMWATER JUNCTION PIT.
REFER TO DRAWING DA4701 FOR
PIT SCHEDULE (TYPICAL)

- JUNCTION PITS TO BE CONSTRUCTED OVER EXISTING DRAINAGE PIPES TO INTERCEPT STORMWATER RUNOFF FROM ADJACENT BUILDING DIVERT IT AROUND THE NEW BUILDING

- STORMWATER INLET PIT. REFER
TO DRAWING DA4701 FOR PIT
SCHEDULE (TYPICAL)

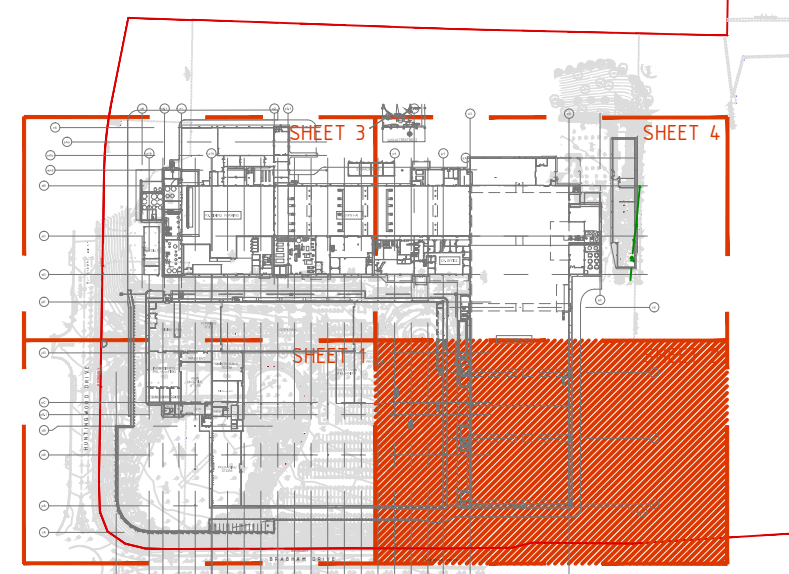
TEMPORARY DIVERSION LINE TO BE
CONSTRUCTED. DIVERSION LINE TO BE
PARTIAL DEMOLISHED UPON COMPLETION
OF OSD TANK AND OUTLET TO
HUNTINGWOOD DRIVE

TEMPORARY DIVERSION LINE TO
DISCHARGE INTO EXISTING KERB
W/LET PIT WITHIN BRABHAM DRIVE

BRABHAM DRIVE

NOTES

1. REFER TO DA4101 FOR LEGEND AND NOTES



KEY PLAN
SCALE: 1:5000@B1

STATE SIGNIFICANT DEVELOPMENT APPLICATION

STRUCTURAL
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MECHANICAL
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ELECTRICAL
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CIVIL

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CLIENT

BUL08

PROJECT
PROPOSED INDUSTRIAL WAREHOUSE
65 HUNTINGWOOD DRIVE, HUNTINGWOOD
CIVIL ENGINEERING PACKAGE

ARCH

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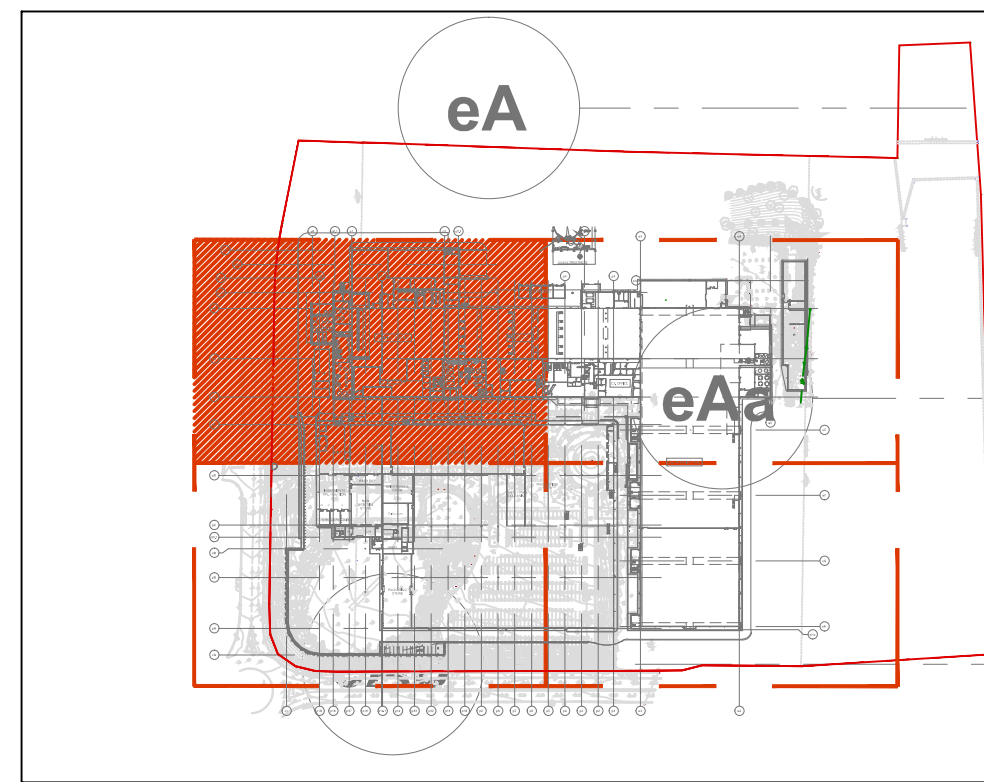




DRAWING TITLE

CIVIL DESIGN
CONCEPT SITEWORKS &
STORMWATER MANAGEMENT PLAN
SHEET 2

DATE FEB 2021	DRAWN MG	DESIGNED DD	CHECKED B
PROJECT No 2020-11-11	SCALE 1:250	SIZE B1	REVISION
DRAWING No 2020-11-11			



KEY PLAN
SCALE: 15000@BT

NOTES

1. REFER TO DA4101 FOR LEGEND AND NOTES

HUNTINGWOOD DRIVE

MAXIMUM 1 IN 3 LANDSCAPE BATTER
STORMWATER JUNCTION PIT
REFER TO DRAWING DA4101
FOR PIT SCHEDULE (TYPICAL)

New Silo 1

EX. MIXING / FORMING

EX. OVEN HALL

STORAGE SHED

NEW STORAGE SHED DRAINAGE TO CONNECT
TO EXISTING SITE DRAINAGE SYSTEM

SILLO ROOF TO CONNECT TO
EXISTING SITE DRAINAGE SYSTEM

NEW CONCRETE DISH DRAIN TO BE CONSTRUCTED
IN PLACE OF EXISTING GUTTER TO MAINTAIN
EXISTING UPSTREAM DRAINAGE CONDITIONS

LIMIT OF WORKS

FORMING
AREA

MIXING AREA

OVEN HALL

REFER DA4104 FOR CONTINUATION

REFER DA4101 FOR CONTINUATION

STATE SIGNIFICANT DEVELOPMENT APPLICATION

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29.03.21	SSDA ISSUE	DD	3				
04.06.21	SSDA ISSUE	DD	4				
17.12.21	SSDA ISSUE	DD	5				

STRUCTURAL
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MECHANICAL
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ELECTRICAL
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CIVIL
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CLIENT
BUILDER



PROJECT
PROPOSED INDUSTRIAL WAREHOUSE
65 HUNTINGWOOD DRIVE, HUNTINGWOOD
CIVIL ENGINEERING PACKAGE

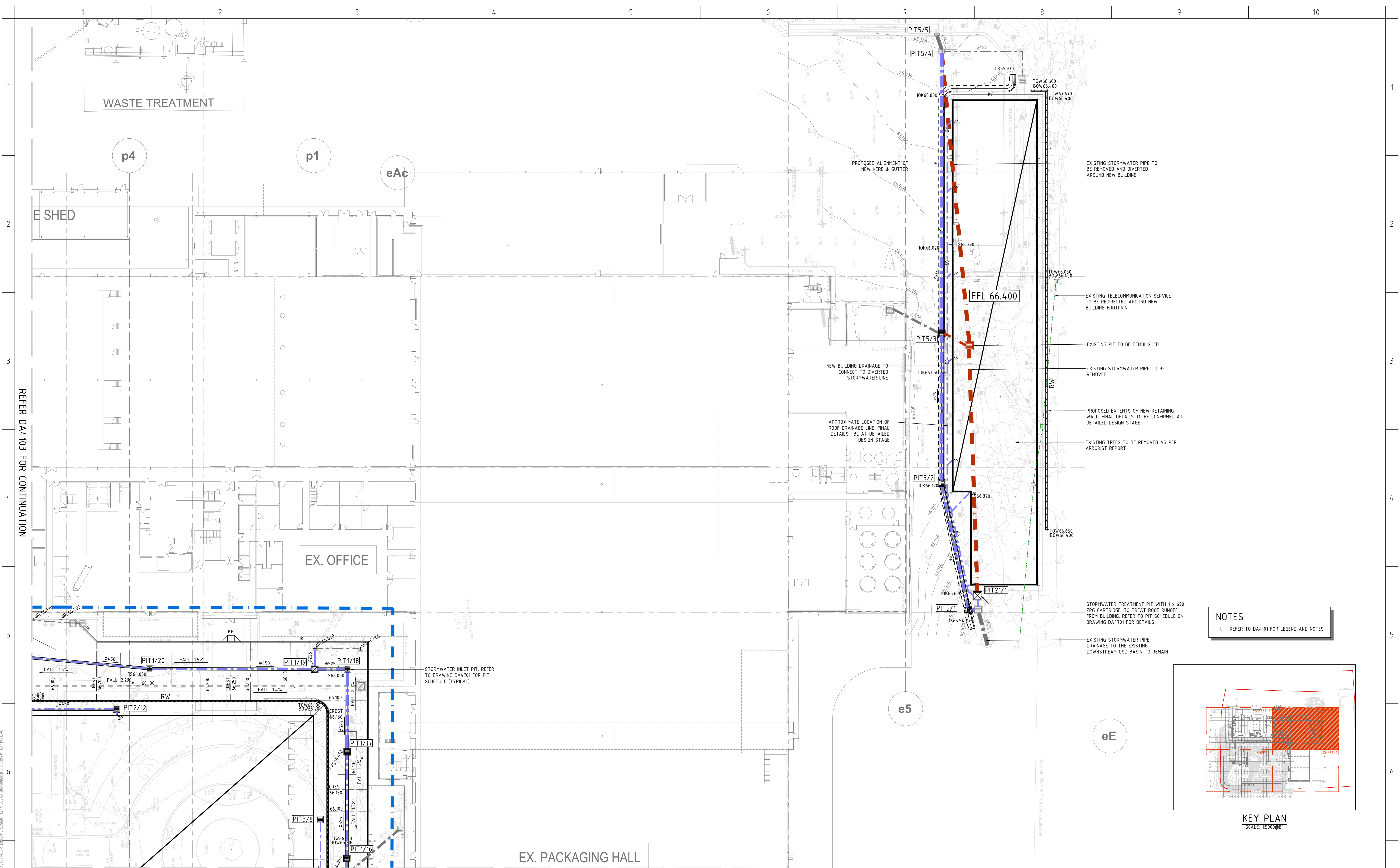


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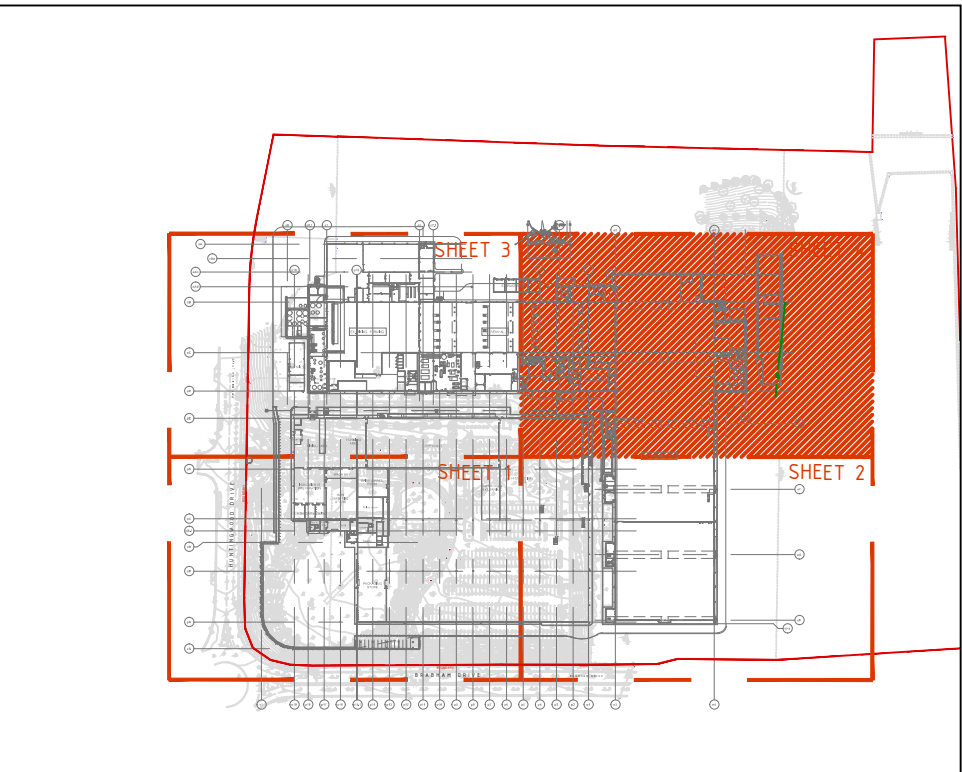


DRAWING TITLE
CIVIL DESIGN
CONCEPT SITEWORKS &
STORMWATER MANAGEMENT PLAN
SHEET 3

DATE	DRAWN	DESIGNED	CHECKED
FEB 2021	MG	DD	BB
PROJECT No	SCALE	SIZE	REVISION
20214	1:250	B1	
	DRAWING No	DA4103	5



NOTES
1. REFER TO DA4101 FOR LEGEND AND NOTES



KEY PLAN
SCALE: 1:5000@B1

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REFERENCES

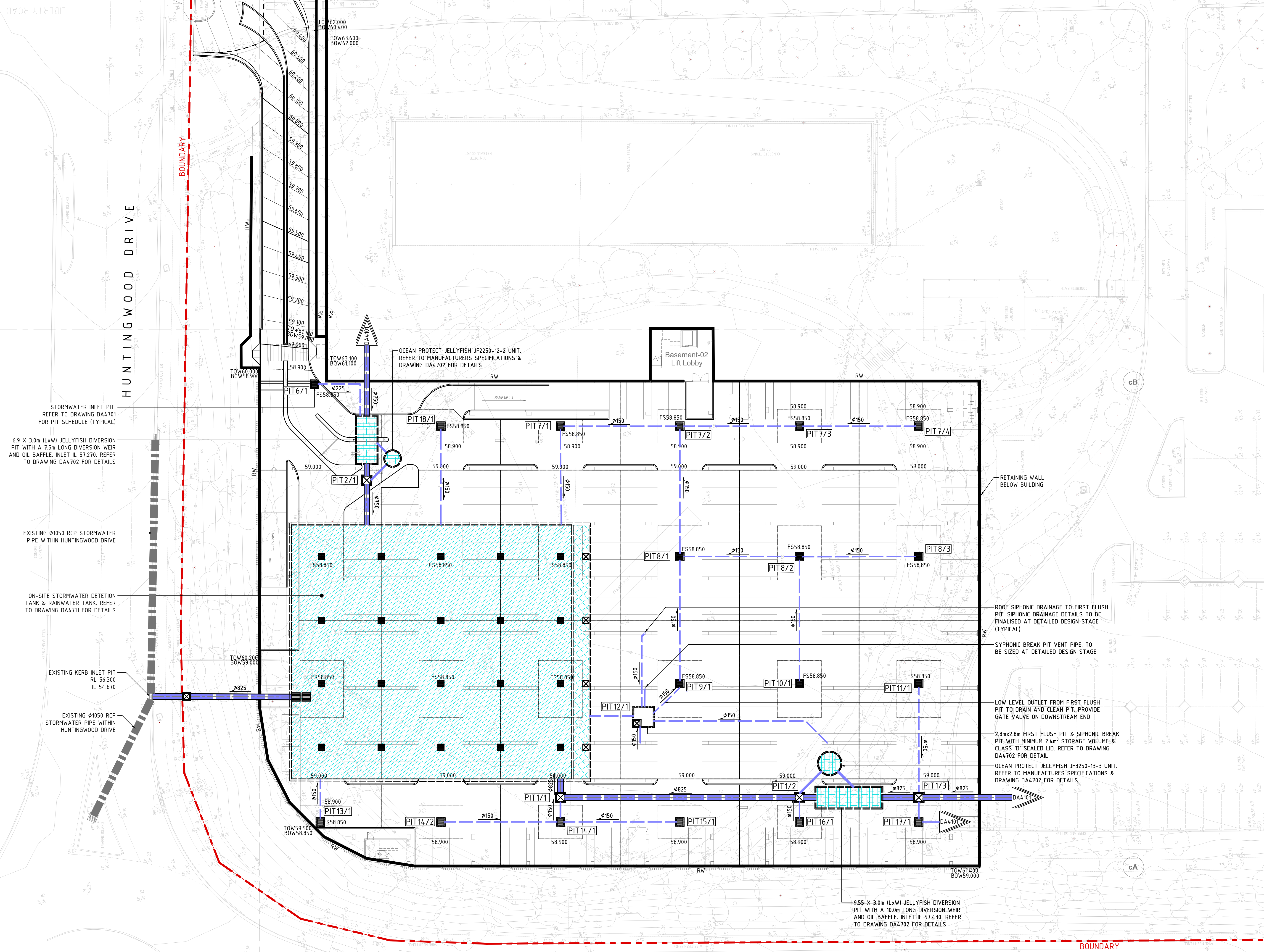
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12.03.21	90% ISSUE
29.03.21	SSDA ISSUE
04.06.21	SSDA ISSUE
17.12.21	SSDA ISSUE

DATE	AMENDMENT	INIT	REV	DATE	AMENDMENT	INIT	REV
19.02.21	50% ISSUE	DD	1				
12.03.21	90% ISSUE	DD	2				
29.03.21	SSDA ISSUE	DD	3				
04.06.21	SSDA ISSUE	DD	4				
17.12.21	SSDA ISSUE	DD	5				

EX. PACKAGING HALL
REFER DA4102 FOR CONTINUATION

STATE SIGNIFICANT DEVELOPMENT APPLICATION

STRUCTURAL -	CLIENT FDC	PROJECT PROPOSED INDUSTRIAL WAREHOUSE 65 HUNTINGWOOD DRIVE, HUNTINGWOOD CIVIL ENGINEERING PACKAGE	SPARKS+PARTNERS CONSULTING ENGINEERS HYDRAULIC CIVIL FIRE Level 1, 91 George Street Parramatta NSW 2150 P 02 9891 5033 F 02 9891 3898 E admin@sparksandpartners.com.au https://sparksandpartners.com.au/	DRAWING TITLE CIVIL DESIGN CONCEPT SITEWORKS & STORMWATER MANAGEMENT PLAN SHEET 4
MECHANICAL -	BUILDER hla architects	ARCHITECT hla architects	FPA Fire Protection Association CORPORATE MEMBER	DATE FEB 2021
ELECTRICAL -			DNV-GL Designated Engineering Organisation CORPORATE MEMBER	DRAWN MG
CIVIL SPARKS AND PARTNERS CONSULTING ENGINEERS			HCAA	DESIGNED DD
				CHECKED BB
				REVISION
				PROJECT NO 20214
				DRAWING NO DA4104
				REVISION 5



STATE SIGNIFICANT DEVELOPMENT APPLICATION

DATE	AMENDMENT	INIT	REV	DATE	AMENDMENT	INIT	REV
19.02.21	50% ISSUE	DD	1				
12.03.21	90% ISSUE	DD	2				
29.03.21	S&DA ISSUE	DD	3				
04.06.21	S&DA ISSUE	DD	4				
10.09.21	S&DA ISSUE	DD	5				
17.12.21	S&DA ISSUE	DD	6				

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CIVIL

SPARKS AND PARTNERS CONSULTING ENGINEERS

CLIENT

BUIL 08



PROJECT	PROPOSED INDUSTRIAL WAREHOUSE 65 HUNTINGWOOD DRIVE, HUNTINGWOOD CIVIL ENGINEERING PACKAGE
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ARCH

hlc architects

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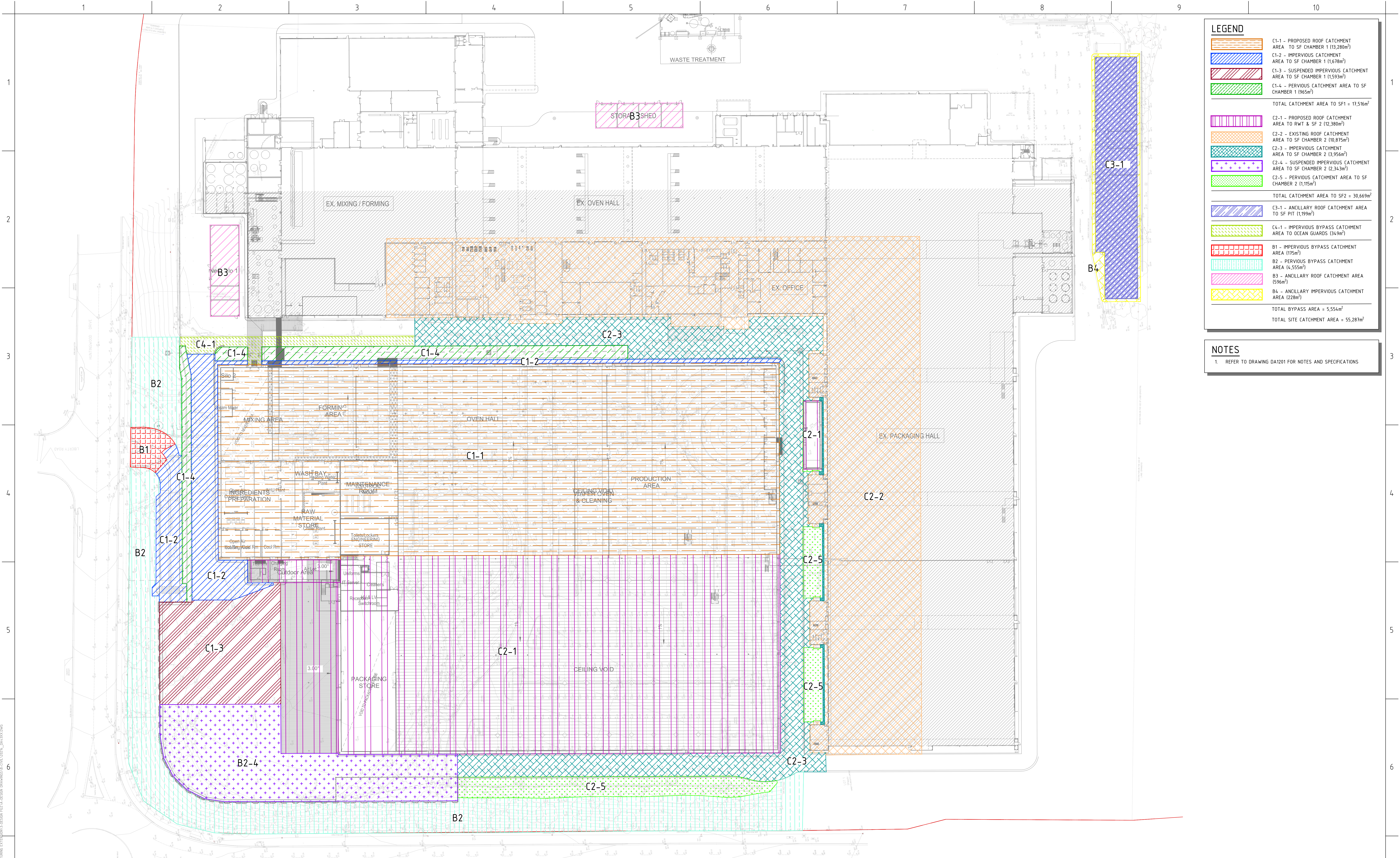




DRAWING TITLE

CIVIL DESIGN
CONCEPT SITEWORKS &
STORMWATER MANAGEMENT
BASEMENT (B2) PLAN

DATE FEB 2021	DRAWN MG	DESIGNED DD	CHECKED BB
PROJECT No 20214	SCALE 1:250	SIZE B1	REVISION 6
DRAWING No DA4111			



LEGEND

C1-1 - PROPOSED ROOF CATCHMENT AREA TO SF CHAMBER 1 (13,200m²)

C1-2 - IMPERVIOUS CATCHMENT AREA TO SF CHAMBER 1 (1,618m²)

C1-3 - SUSPENDED IMPERVIOUS CATCHMENT AREA TO SF CHAMBER 1 (1,593m²)

C1-4 - PERVIOUS CATCHMENT AREA TO SF CHAMBER 1 (965m²)

TOTAL CATCHMENT AREA TO SF1 = 17,516m²

C2-1 - PROPOSED ROOF CATCHMENT AREA TO RW1 & SF 2 (12,380m²)

C2-2 - EXISTING ROOF CATCHMENT AREA TO SF CHAMBER 2 (10,875m²)

C2-3 - IMPERVIOUS CATCHMENT AREA TO SF CHAMBER 2 (3,956m²)

C2-4 - SUSPENDED IMPERVIOUS CATCHMENT AREA TO SF CHAMBER 2 (2,343m²)

C2-5 - PERVIOUS CATCHMENT AREA TO SF CHAMBER 2 (1,115m²)

TOTAL CATCHMENT AREA TO SF2 = 30,669m²

C3-1 - ANCILLARY ROOF CATCHMENT AREA TO SF PIT (1,199m²)

C4-1 - IMPERVIOUS BYPASS CATCHMENT AREA TO OCEAN GUARDS (34.9m²)

B1 - IMPERVIOUS BYPASS CATCHMENT AREA (195m²)

B2 - PERVIOUS BYPASS CATCHMENT AREA (4,555m²)

B3 - ANCILLARY ROOF CATCHMENT AREA (596m²)

B4 - ANCILLARY IMPERVIOUS CATCHMENT AREA (228m²)

TOTAL BYPASS AREA = 5,554m²

TOTAL SITE CATCHMENT AREA = 55,287m²

NOTES

1. REFER TO DRAWING DA1201 FOR NOTES AND SPECIFICATIONS

IMPORTANT

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REFERENCES

19.02.21 50% ISSUE

12.03.21 90% ISSUE

29.03.21 SSDA ISSUE

04.06.21 SSDA ISSUE

10.09.21 SSDA ISSUE

17.12.21 SSDA ISSUE

DATE	AMENDMENT	INIT	REV	DATE	AMENDMENT	INIT	REV
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04.06.21	SSDA ISSUE	DD	4				
10.09.21	SSDA ISSUE	DD	5				
17.12.21	SSDA ISSUE	DD	6				

STRUCTURAL

-

MECHANICAL

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ELECTRICAL

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CIVIL

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PROJECT

PROPOSED INDUSTRIAL WAREHOUSE
65 HUNTINGWOOD DRIVE, HUNTINGWOOD
CIVIL ENGINEERING PACKAGE

ARCHITECT

hlc architects

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https://sparksandpartners.com.au/

SPARKS+PARTNERS

CONSULTING ENGINEERS
HYDRAULIC | CIVIL | FIRE

FPA

Fire Protection Association of Australia

DNV-GL

Design & Verify

HCAA

Hydro-Catchment & Assessment Australia

DATE

FEB 2021

DRAWN

MG

DESIGNED

DD

CHECKED

BB

PROJECT No

20214

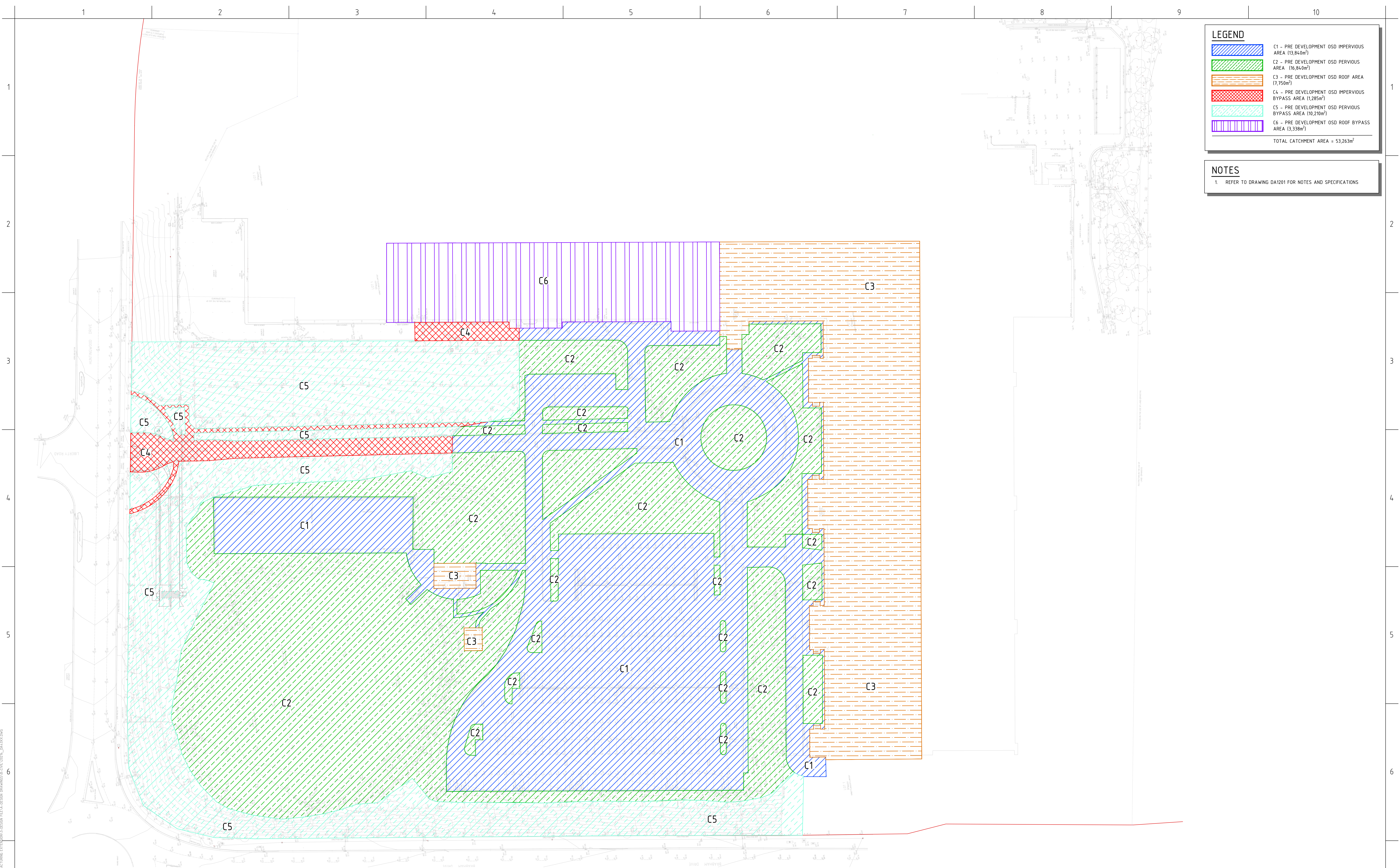
DRAWING No

DA4301

REVISION

6

STATE SIGNIFICANT DEVELOPMENT APPLICATION



LEGEND	
	C1 - PRE DEVELOPMENT OSD IMPERVIOUS AREA (13,840m²)
	C2 - PRE DEVELOPMENT OSD PERVIOUS AREA (16,840m²)
	C3 - PRE DEVELOPMENT OSD ROOF AREA (7,750m²)
	C4 - PRE DEVELOPMENT OSD IMPERVIOUS BYPASS AREA (1,285m²)
	C5 - PRE DEVELOPMENT OSD PERVIOUS BYPASS AREA (10,210m²)
	C6 - PRE DEVELOPMENT OSD ROOF BYPASS AREA (3,338m²)
TOTAL CATCHMENT AREA = 53,263m²	

NOTES	
1. REFER TO DRAWING DA1201 FOR NOTES AND SPECIFICATIONS	

IMPORTANT

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REFERENCES

DATE	AMENDMENT	INIT	REV	DATE	AMENDMENT	INIT	REV
17.12.21	SSDA ISSUE	DD	1				

STRUCTURAL
-

MECHANICAL
-

ELECTRICAL
-

CIVIL
SPARKS AND PARTNERS CONSULTING ENGINEERS

CLIENT

BUILDER

FDC

PROJECT
PROPOSED INDUSTRIAL WAREHOUSE
65 HUNTINGWOOD DRIVE, HUNTINGWOOD
CIVIL ENGINEERING PACKAGE

ARCHITECT

hla architects

SPARKS+PARTNERS
CONSULTING ENGINEERS
HYDRAULIC | CIVIL | FIRE

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FPA
FIRE PROTECTION ASSOCIATION
CORPORATE MEMBER

DNV-GL
DESIGN VERIFICATION
CORPORATE MEMBER

HCAA
HYDRAULIC CONSULTANTS ASSOCIATION
CORPORATE MEMBER

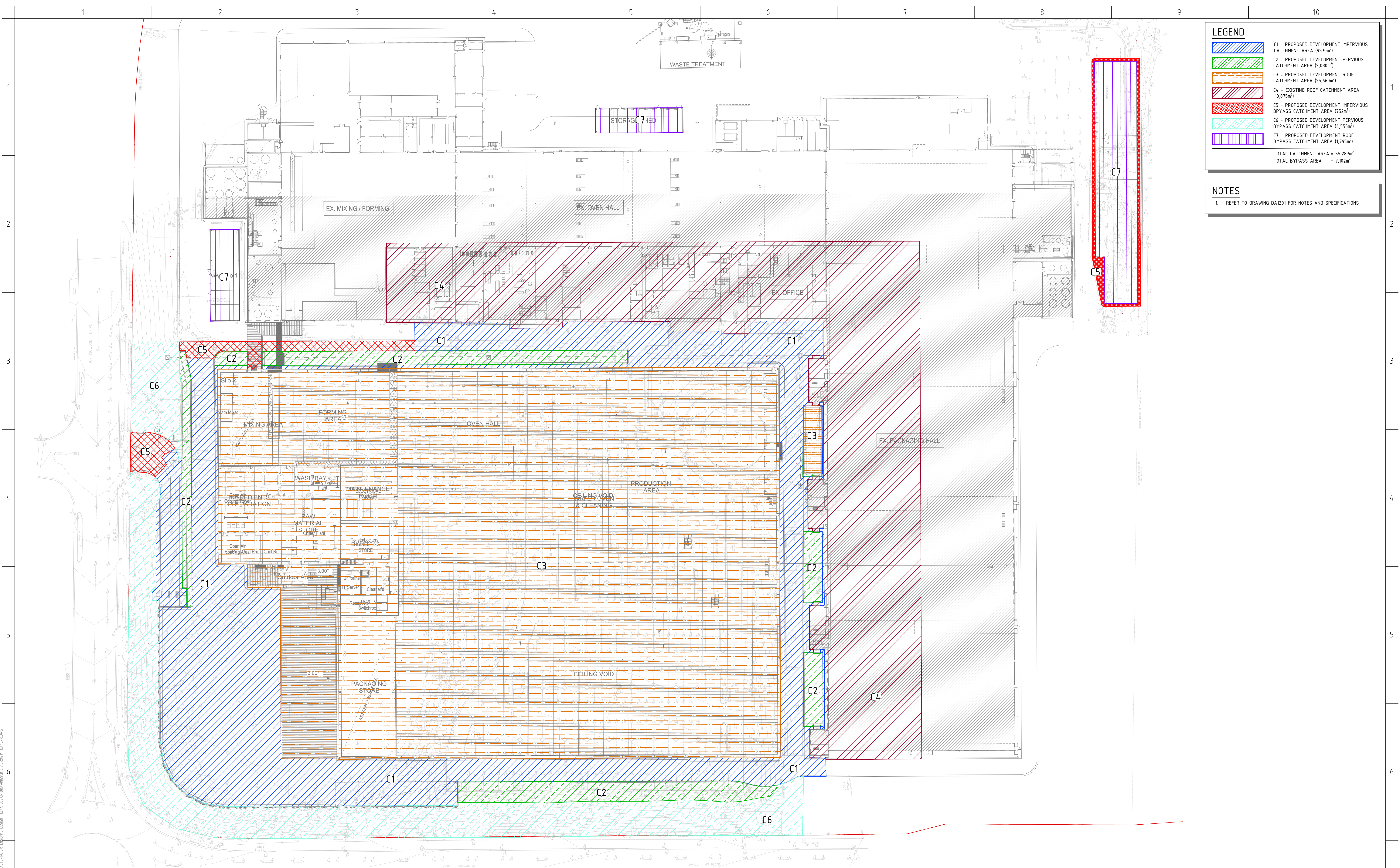
DRAWING TITLE
CIVIL DESIGN
CONCEPT EXISTING OSD
CATCHMENT PLAN

DATE	DRAWN	DESIGNED	CHECKED
FEB 2021	MG	DD	BB
PROJECT NO	SCALE	SIZE	REVISION
20214	1:500	B1	

DRAWING No

DA4311

1



LEGEND

C1 - PROPOSED DEVELOPMENT IMPERVIOUS CATCHMENT AREA (9570m²)

C2 - PROPOSED DEVELOPMENT PERVIOUS CATCHMENT AREA (2,080m²)

C3 - PROPOSED DEVELOPMENT ROOF CATCHMENT AREA (25,660m²)

C4 - EXISTING ROOF CATCHMENT AREA (10,875m²)

C5 - PROPOSED DEVELOPMENT IMPERVIOUS BYPASS CATCHMENT AREA (752m²)

C6 - PROPOSED DEVELOPMENT PERVIOUS BYPASS CATCHMENT AREA (4,555m²)

C7 - PROPOSED DEVELOPMENT ROOF BYPASS CATCHMENT AREA (1,195m²)

TOTAL CATCHMENT AREA = 55,281m²

TOTAL BYPASS AREA = 7,102m²

NOTES

1. REFER TO DRAWING DA1201 FOR NOTES AND SPECIFICATIONS

0 10 20 30 40 50

1:500

NORTH POINT

IMPORTANT:

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REFERENCES:

DATE	AMENDMENT	INIT	REV	DATE	AMENDMENT	INIT	REV
17.12.21	SSDA ISSUE	DD	1				

STRUCTURAL

-

MECHANICAL

-

ELECTRICAL

-

CIVIL

SPARKS AND PARTNERS CONSULTING ENGINEERS

CLIENT

BUILDER

ARCHITECT

PROJECT

PROPOSED INDUSTRIAL WAREHOUSE
65 HUNTINGWOOD DRIVE, HUNTINGWOOD
CIVIL ENGINEERING PACKAGE

CONSULTING ENGINEERS
HYDRAULIC | CIVIL | FIRE
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https://sparksandpartners.com.au/

FIRE PROTECTION ASSOCIATION
CORPORATE MEMBER

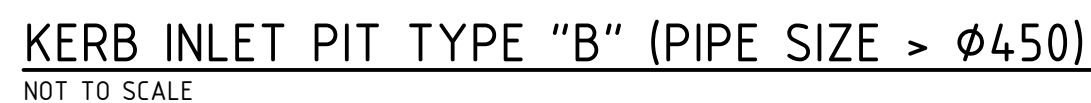
DNV-GL
QUALITY SYSTEM CERTIFIED
ISO 9001

HCAA

DRAWING TITLE

CIVIL DESIGN
CONCEPT PROPOSED OSD
CATCHMENT PLAN

DATE	DRAWN	DESIGNED	CHECKED	BB
FEB 2021	SCALE	MG	DD	REVISION
20214	PROJECT No	1:500	SIZE	B1
	DRAWING No	DA4312		1





3



4



6



STRUCTURAL
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MECHANICAL
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ELECTRICAL
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CIVIL

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hlc architects



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FPA
AUSTRALIA
Fire Protection Association Australia
CORPORATE MEMBER

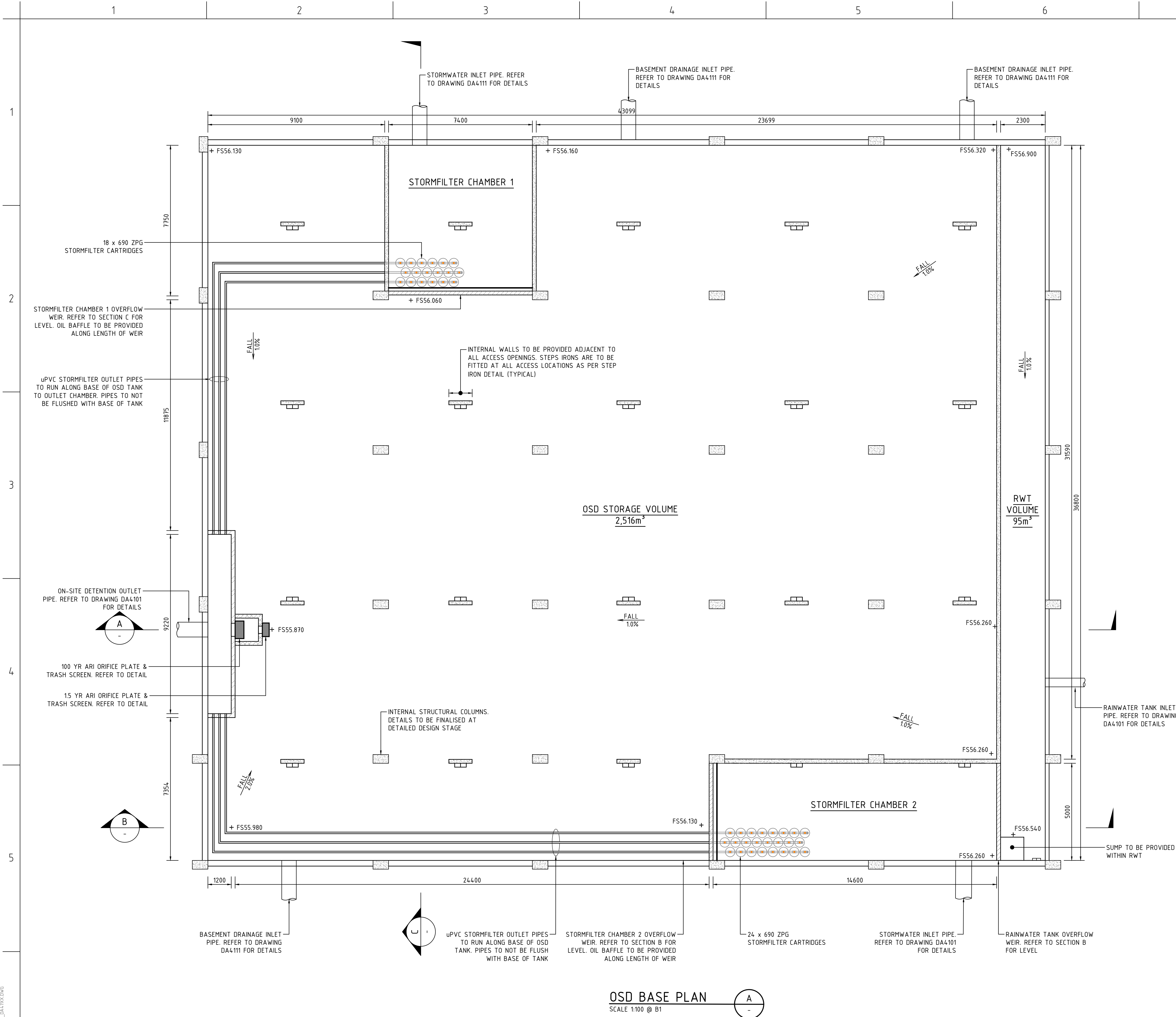


QUALITY SYSTEM CERTIFICATION
DNV-GL



HCAA
HYDRAULIC CONSULTANTS ASSOCIATION OF AUSTRALIA

DATE	DRAWN	DESIGNED	CHECKED
FEB 2021	MG	DD	
PROJECT No	SCALE	SIZE	REVISION
20214	AS SHOWN	B1	
	DRAWING No	DA4702	

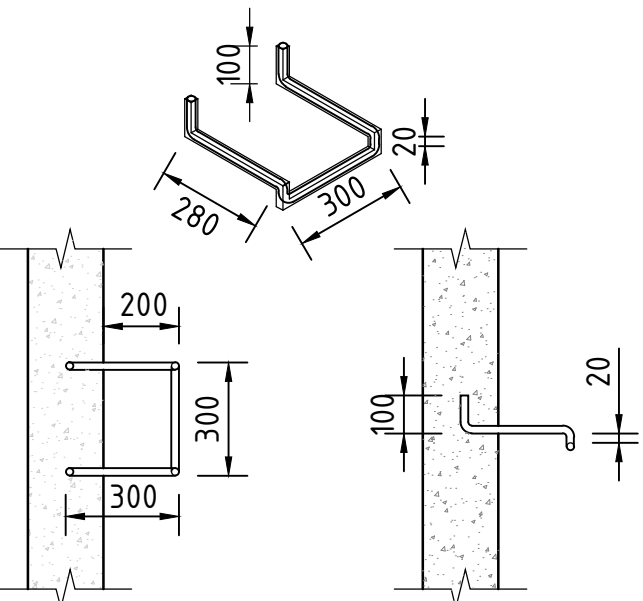


CONFINED SPACE WARNING SIGN TO BE LOCATED AT EACH PIT ENTRANCE OF UNDERGROUND TANK INCLUDING CONTROL PIT.

COLOURS: "DANGER" AND BACKGROUND WHITE
ELLIPTICAL AREA RED
RECTANGLE CONTAINING ELLIPSE BLACK
OTHER LETTERING AND BORDER BLACK

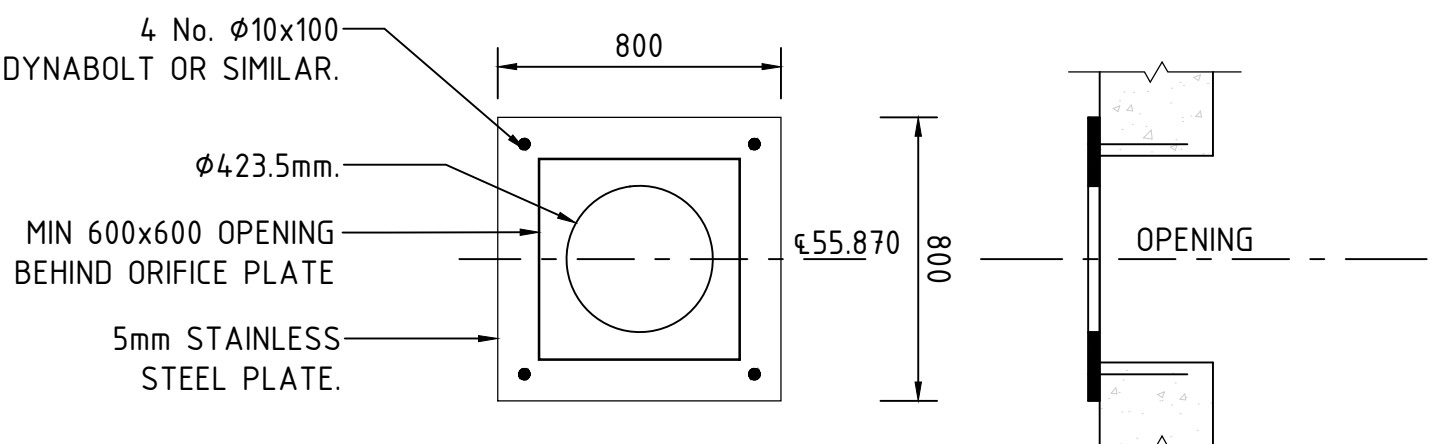
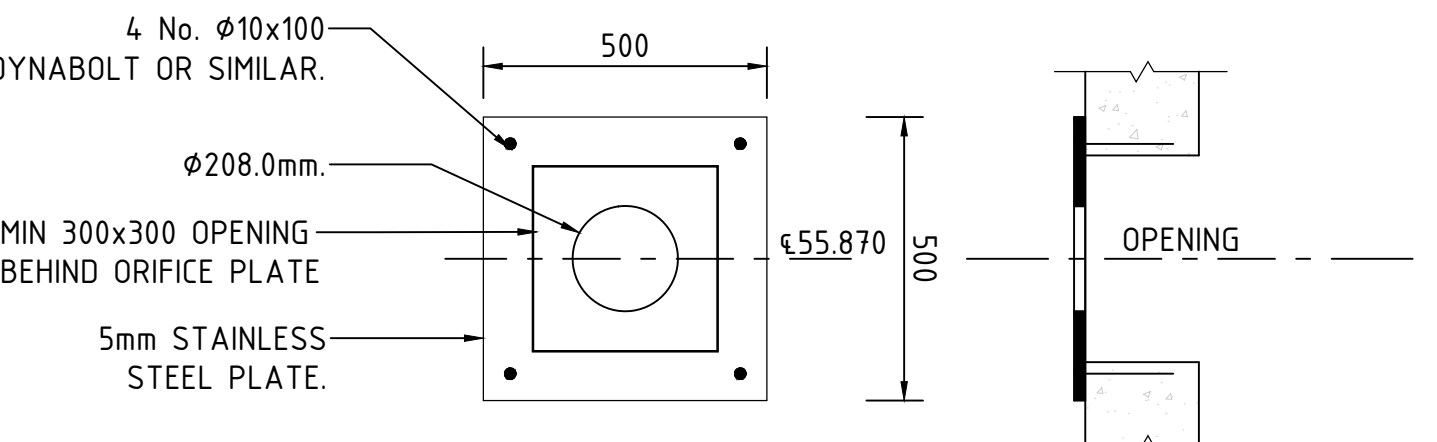
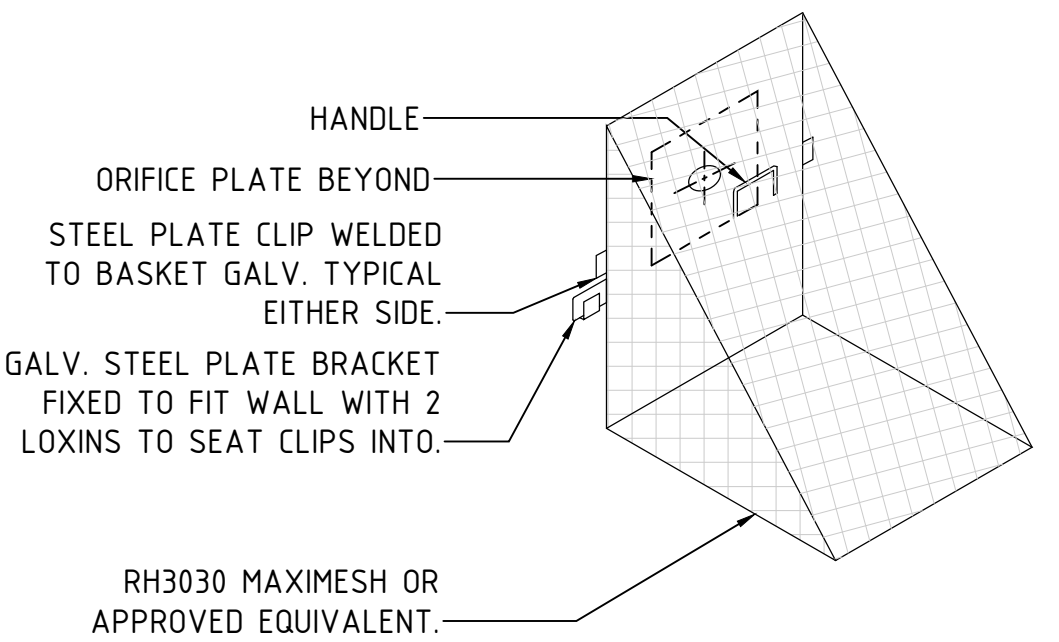
MATERIAL: POLYPROPYLENE

CONFINED SPACE WARNING SIGN
NOT TO SCALE



NOTES:
1. CORNERS: SQUARE
2. COLOURS: ETCHED AND FILLED BLACK LEGEND ON A NATURAL SILVER BACKGROUND
3. CONSTRUCTED FROM ALUMINIUM 0.9mm MILL
4. THIS SIGN SHALL BE PLACED IN A VISIBLE LOCATION NEAR A DISCHARGE CONTROL PIT OR AT THE ACCESS TO ONE.
5. SIGN FIXED USING HILTI CHEMSETS OR EPOXY

OSD SIGN
NOT TO SCALE



STATE SIGNIFICANT DEVELOPMENT APPLICATION

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STRUCTURAL
-
MECHANICAL
-
ELECTRICAL
-
CIVIL

SPARKS AND PARTNERS CONSULTING ENGINEERS

BUI, CE

ARCHIT

DATE FEB 2021	DRAWN MG	DESIGNED DD	CHECKED BB
PROJECT No 2021-01	SCALE AS SHOWN	SIZE B1	REVISION
DRAWING No 2021-01-01		2	

STATE SIGNIFICANT DEVELOPMENT APPLICATION