

MANILDRA GROUP

100% AUSTRALIAN OWNED

PROPOSED PORT KEMBLA TERMINAL AND PIPELINE CORRIDOR

FORESHORE ROAD, PORT KEMBLA

SITE DRAWINGS

DRG. No.	DRAWING TITLE
20399-DA-P01	PROPOSED PIPELINE ROUTE & KEY PLAN
20399-DA-P02	PROPOSED SITE OPERATIONS
20399-DA-P03	PROPOSED PIPELINE ROUTE SHEET 1
20399-DA-P04	PROPOSED PIPELINE ROUTE SHEET 2
20399-DA-P05	PROPOSED PIPELINE ROUTE SHEET 3
20399-DA-A01	PROPOSED SITE LAYOUT
20399-DA-A02	TRUCK MOVEMENT SWEPT PATHS 25m B-DOUBLE
20399-DA-A03	TRUCK MOVEMENT SWEPT PATHS 30m A-DOUBLE
20399-DA-A04	PROPOSED TANK FARM LAYOUT
20399-DA-A05	PROPOSED TANK FARM ELEVATIONS
20399-DA-A06	TRUCK MOVEMENT SWEPT PATHS 19m NITROGEN TANKER
20399-DA-A07	TRUCK MOVEMENT SWEPT PATHS 12.5m FIRE SERVICE VEHICLE
20399-DA-A08	DEMOLITION PLAN
20399-DA-F01	PROPOSED SITE LOCATION FIRE SERVICES
20399-DA-F02	PROPOSED FIRE SERVICES AND MANIFEST LAYOUT
20399-DA-F03	PROPOSED BERTH FIRE PROTECTION SYSTEM
20399-DA-Y01	SITE SIGNAGE DRAWING

DETAIL DRAWINGS

DRG. No.	DRAWING TITLE
20399-DA-C01	CONCEPTUAL STOMWATER MANAGEMENT PLAN
20399-DA-C90	SECURITY FENCING DETAILS
20399-DA-L01	PROPOSED LANDSCAPING PLAN

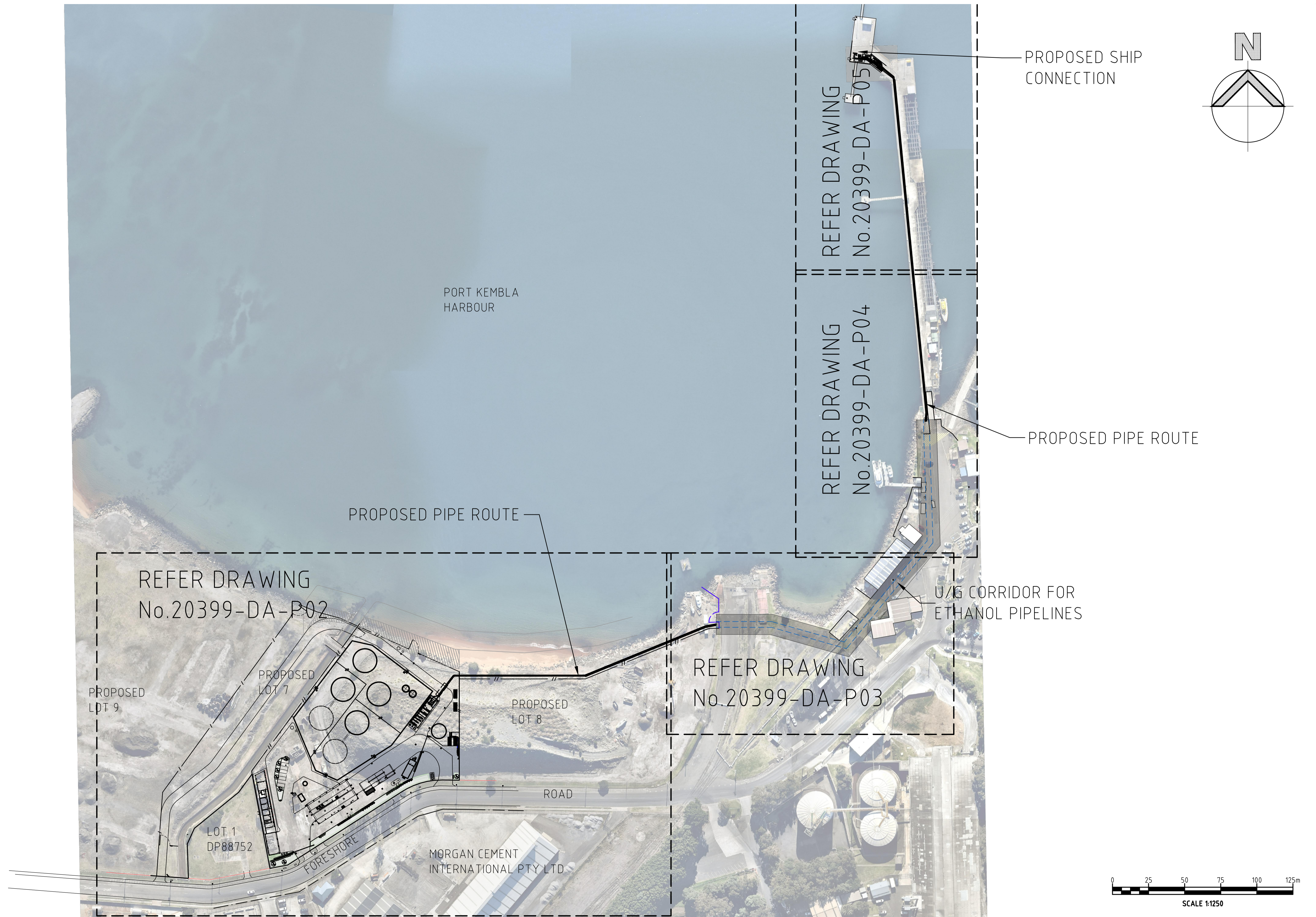
BUILDING DRAWINGS

DRG. No.	DRAWING TITLE
20399-DA-B01	SITE OFFICE & WORKSHOP FLOOR PLAN
20399-DA-B02	SITE OFFICE & WORKSHOP ELEVATIONS
20399-DA-B11	LOAD IN/OUT GANTRY FLOOR PLAN
20399-DA-B12	LOAD IN/OUT GANTRY ROOF PLAN
20399-DA-B13	LOAD IN/OUT GANTRY ELEVATIONS
20399-DA-B21	DRIVERS HUT PLAN & ELEVATIONS
20399-DA-B31	WASH BUND CANOPY PLANS
20399-DA-B32	WASH BUND CANOPY ELEVATIONS
20399-DA-B41	PUMP & PIG STATION PLANS
20399-DA-B42	PUMP & PIG STATION ELEVATIONS

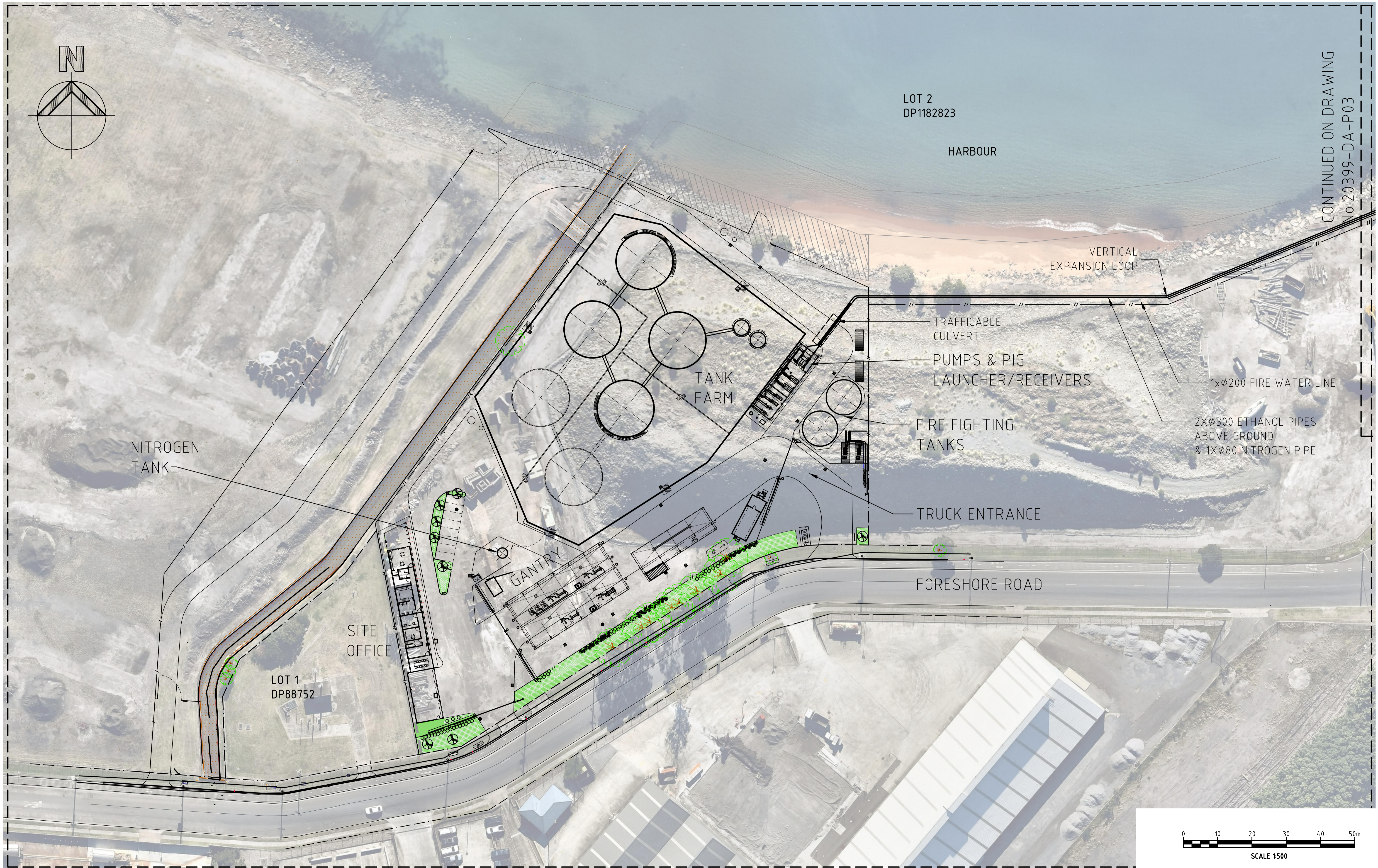
HAZARDOUS AREA DRAWINGS

DRG. No.	DRAWING TITLE
20399-DA-Z01	SITE HAZARDOUS AREAS
20399-DA-Z02	GANTRY HAZARDOUS AREAS
20399-DA-Z03	WHARF HAZARDOUS AREAS

PROJECT MANAGERS PLANNERS DESIGNERS ENGINEERS				REV	DATE	BY	DESCRIPTION	CHK	APP	PROJECT CLIENT	PROJECT DETAILS	DRAWING TITLE	STATUS		
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				B	26.07.21	LCC	PRELIMINARY ISSUE						DATE CREATED	ORIGINAL SCALE	SHEET
				C	29.07.21	LCC	D.A. ISSUE	BV	BP				24.06.21	N.T.S.	A1
				D	14.10.21	LCC	ADDED DRAWINGS						DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.		
				E	06.06.22	CC	REVISED DRAWINGS						DRAWING NO	REV	
												20399-DA-00	E		

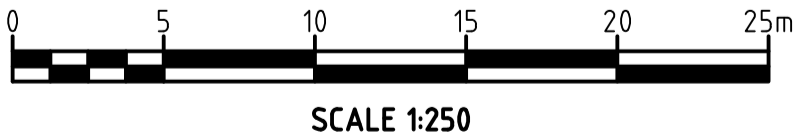


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				B	12.07.21	LCC	PRELIMINARY ISSUE						DATE CREATED	ORIGINAL SCALE	SHEET
				C	26.07.21	LCC	PRELIMINARY ISSUE						24.06.21	1:1250	A1
				D	29.07.21	LCC	APPROVAL						DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.		
				E	20.08.21	LCC	D.A. ISSUE	BV	BP				DRAWING NO	REV	
				F	14.10.21	CC	RE-ISSUE FOR D.A.	BV	BP				20399-DA-P01		
				G	03.11.21	LCN	REVISED FOR U/G ROUTE FOR D.A.	BV	BP				H		

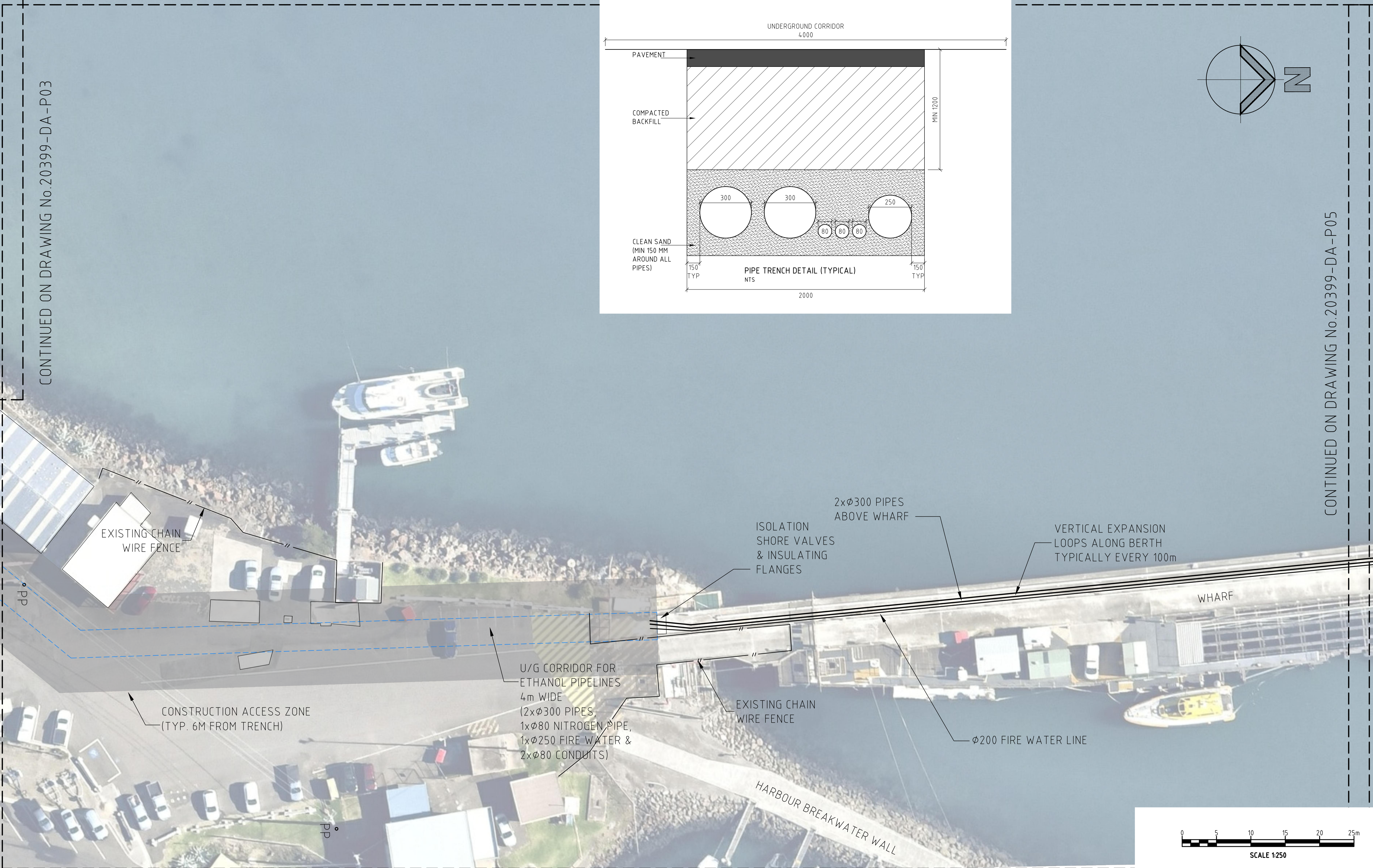


CONTINUED ON DRAWING
No: 20399-DA-P03

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				B	26.07.21	LCC	PRELIMINARY ISSUE						DATE CREATED	ORIGINAL SCALE	SHEET
				C	29.07.21	LCC	APPROVAL						24.06.21	1:500	A1
				D	20.08.21	LCC	D.A. ISSUE						DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.		
				E	14.10.21	CC	RE-ISSUE FOR D.A.						DRAWING NO	REV	
				F	10.03.22	HE	REVISED ROUTE DETAILS	BV BV BP BP					20399-DA-P02	F	



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	B	13.07.21	LCC	PRELIMINARY ISSUE						DATE CREATED	ORIGINAL SCALE	SHEET			
	C	26.07.21	LCC	PRELIMINARY ISSUE						24.06.21	1:250	A1			
	D	29.07.21	LCC	APPROVAL						DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.					
	E	20.08.21	LCC	D.A. ISSUE	BV	BP				DRAWING NO					
	F	14.10.21	CC	RE-ISSUE FOR D.A.	BV	BP				REV					
	G	03.11.21	LCN	REVISED TO U/G ROUTE FOR D.A.	BV	BP				20399-DA-P03					
												H			



CONTINUED ON DRAWING No.20399-DA-P03

CONTINUED ON DRAWING No.20399-DA-P05

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				B	13.07.21	LCC	PRELIMINARY ISSUE						DATE CREATED	ORIGINAL SCALE	SHEET
				C	26.07.21	LCC	PRELIMINARY ISSUE						24.06.21	1:250	A1
				D	29.07.21	LCC	APPROVAL						DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.		
				E	20.08.21	LCC	D.A. ISSUE	BV	BP				DRAWING NO	REV	
				F	14.10.21	CC	RE-ISSUE FOR D.A.	BV	BP						
				G	02.11.21	LCN	REVISED TO U/G ROUTE FOR D.A.	BV	BP				20399-DA-P04 H		

CONTINUED ON DRAWING No. 20399-DA-P04

VERTICAL EXPANSION
LOOPS ALONG BERTH
TYPICALLY EVERY 100m

2xØ300 ETHANOL
PIPES ABOVE
WHARF

WHARF

Ø200 FIRE WATER LINE

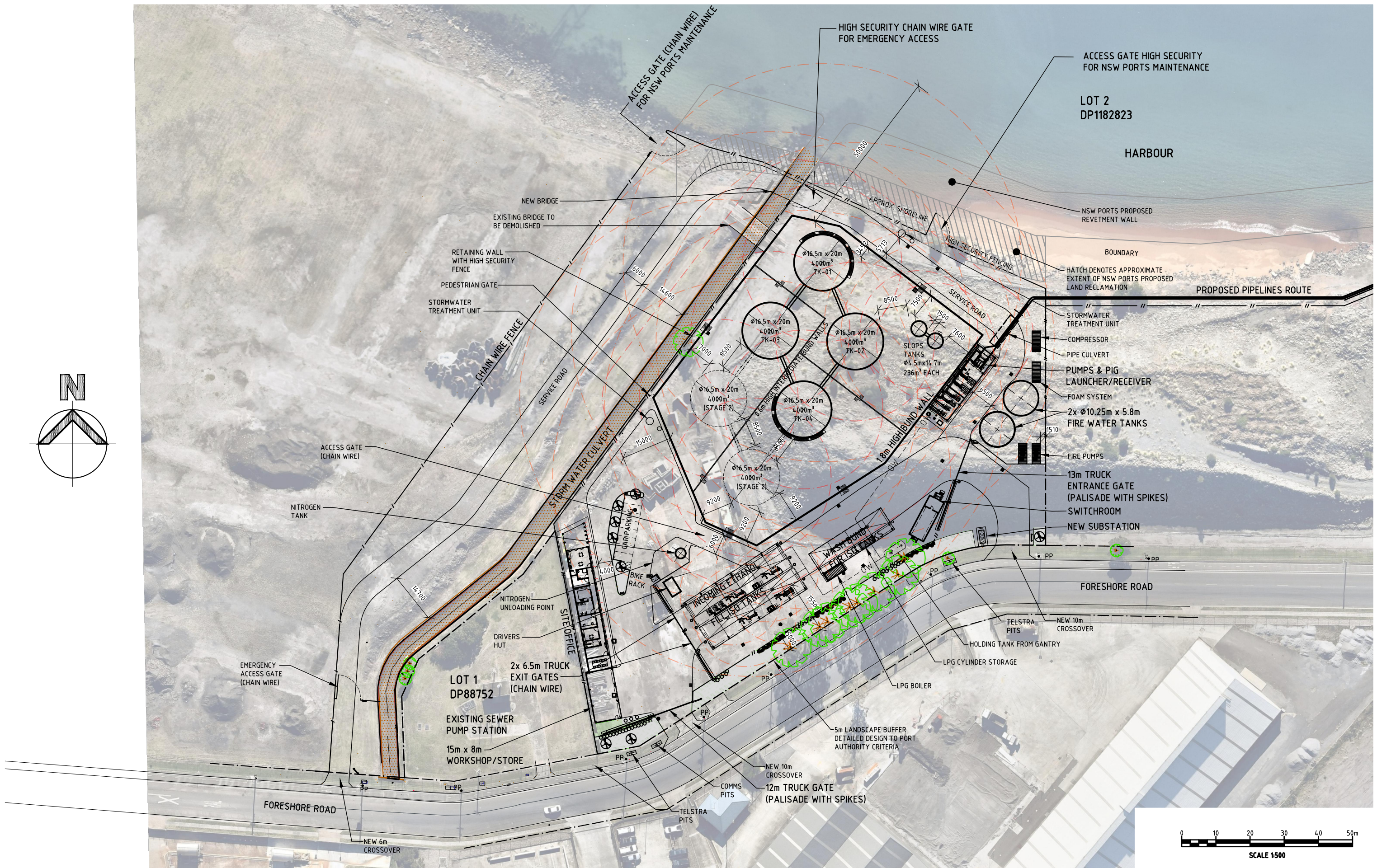
PROPOSED SHIPS
CONNECTION POINT

PROPOSED PIPING
PIG STATION

0 5 10 15 20 25m
SCALE 1:250



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	B	13.07.21	LCC	PRELIMINARY ISSUE							DATE CREATED 24.06.21	ORIGINAL SCALE 1:250	SHEET A1
	C	26.07.21	LCC	PRELIMINARY ISSUE							DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.		
	D	29.07.21	LCC	APPROVAL							DRAWING NO	REV	
	E	20.08.21	LCC	D.A. ISSUE	BV	BP					20399-DA-P05		
	F	14.10.21	CC	RE-ISSUE FOR D.A.	BV	BP					G		
	G	10.03.22	HE	REVISED ROUTE DETAILS	BV	BP							



PROJECT MANAGERS PLANNERS DESIGNERS ENGINEERS				PROJECT CLIENT				DRAWING TITLE		STATUS	
REV				DESCRIPTION				MANILDRA GROUP		D.A. ISSUE	
A				24.06.21 LCC PRELIMINARY ISSUE				PORT KEMBLA		DATE CREATED	
B				26.07.21 P PRELIMINARY ISSUE				BULK LIQUIDS FACILITY		ORIGINAL SCALE	
C				29.07.21 LCC D.A. ISSUE				FORESHORE ROAD		1:500	
D				14.10.21 LCN RE-ISSUE FOR DA				PORT KEMBLA, NSW		SHEET	
E				16.03.22 HE BOILER CHANGE TO LPG						A1	
F				09.05.22 CC NWSFR TRUCK ROAD						DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.	
										DRAWING NO	
										REV	
										20399-DA-A01	
										F	

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MANILDRA GROUP
100% AUSTRALIAN OWNED

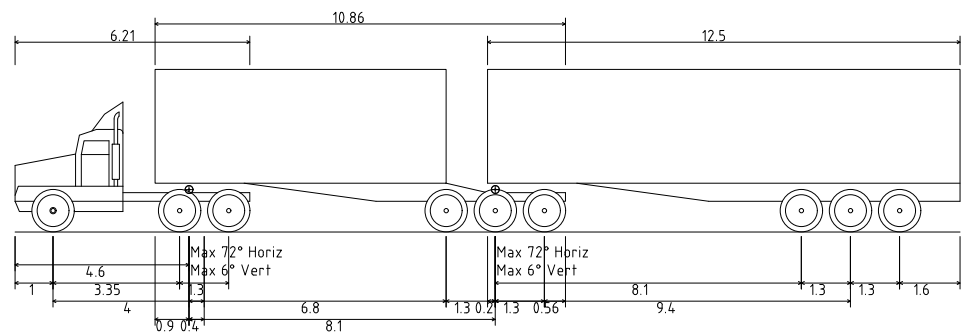
MANILDRA GROUP
PORT KEMBLA
BULK LIQUIDS FACILITY
FORESHORE ROAD
PORT KEMBLA, NSW

PROPOSED SITE LAYOUT

D.A. ISSUE

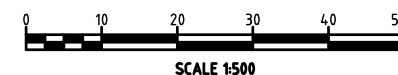
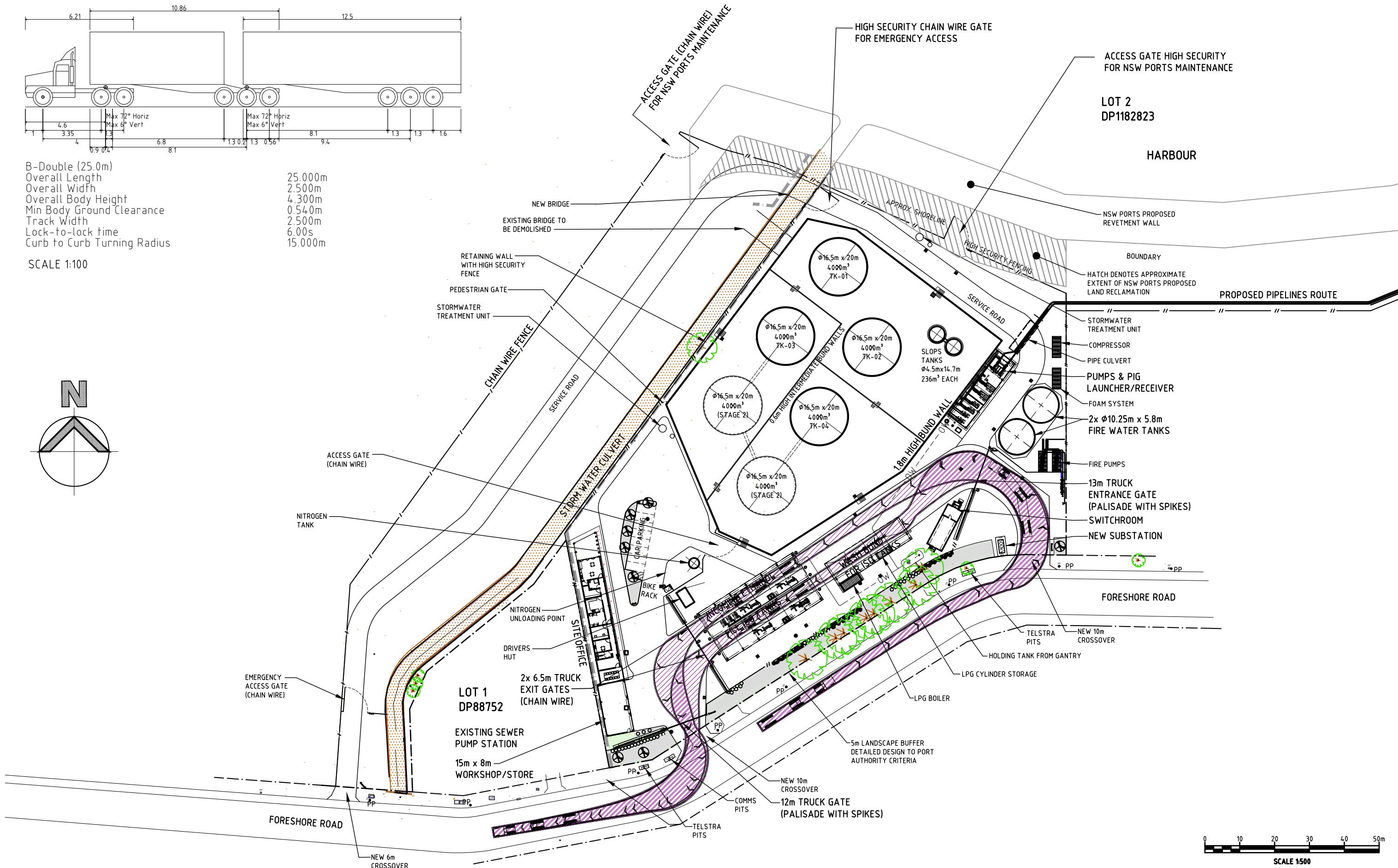
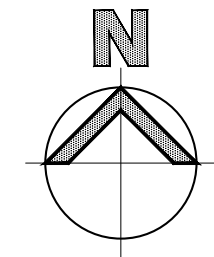
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DRAWING NO20399-DA-A01REV F

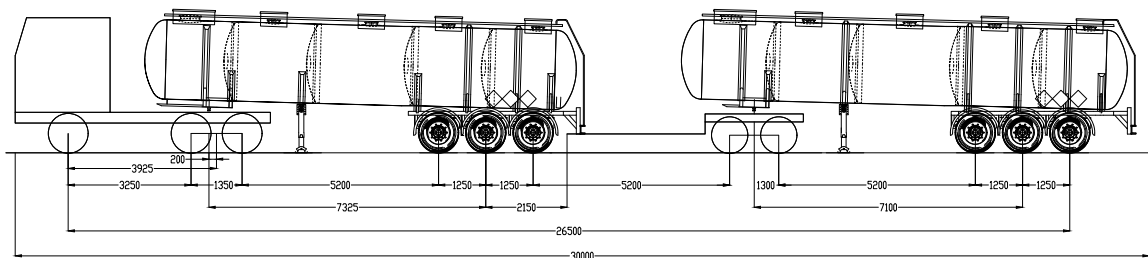


B-Double (25.0m)
 Overall Length 25.00m
 Overall Width 2.50m
 Overall Body Height 4.30m
 Min Body Ground Clearance 0.54m
 Track Width 2.50m
 Lock-to-lock time 6.00s
 Curb to Curb Turning Radius 15.00m

SCALE 1:100

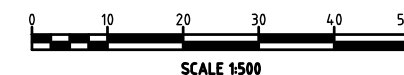
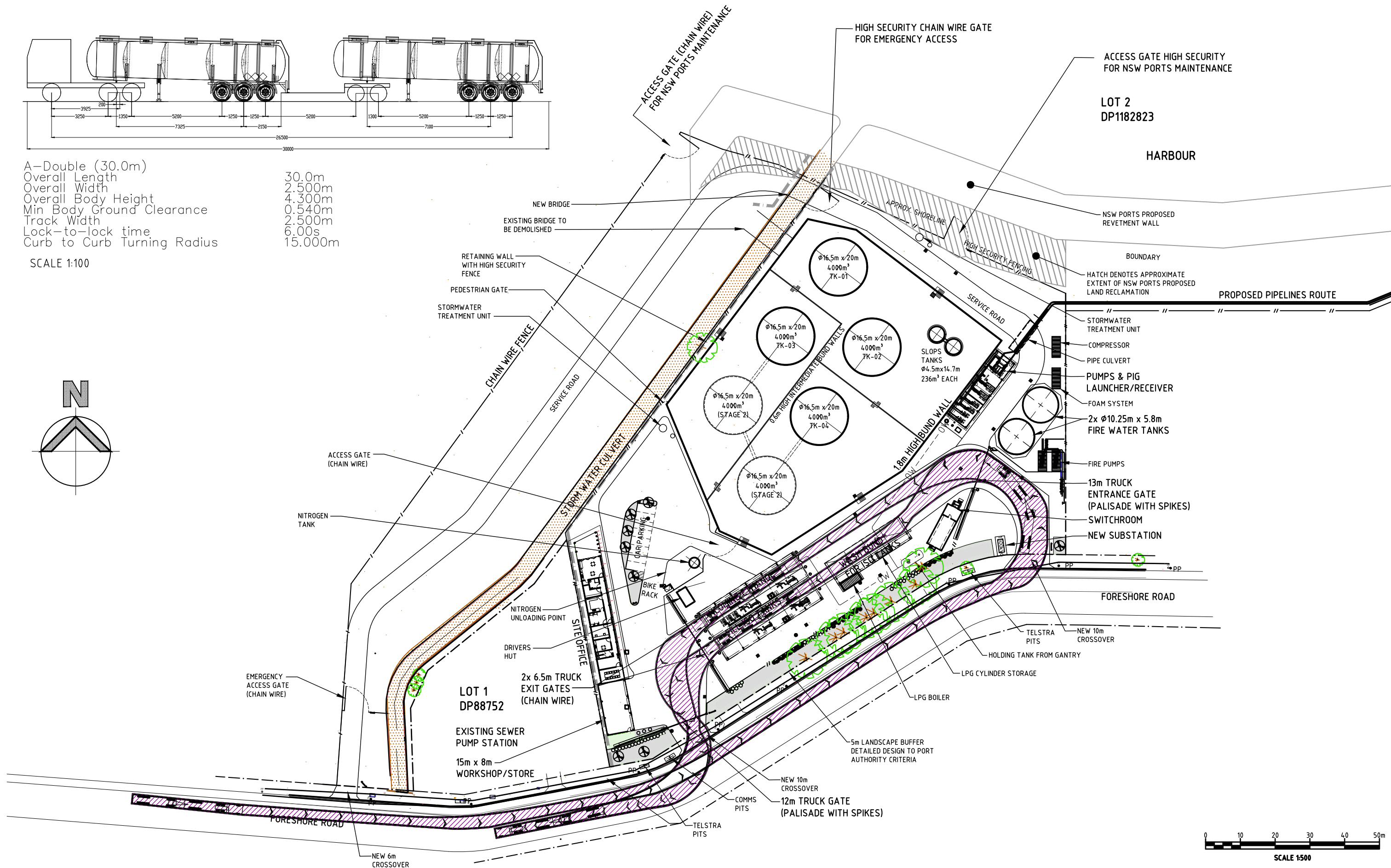
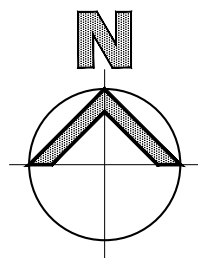


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				B	26.07.21	LCC	PRELIMINARY ISSUE							
				C	29.07.21	LCC	D.A. ISSUE							
				D	11.10.21	LCC	REVISED SITE BOUNDARIES							
				E	09.05.22	HE	BOILER CHANGE TO LPG, NSWFR TRUCK ROAD	BV	BP					

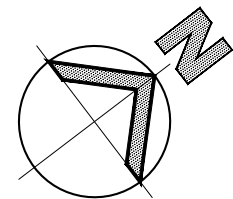
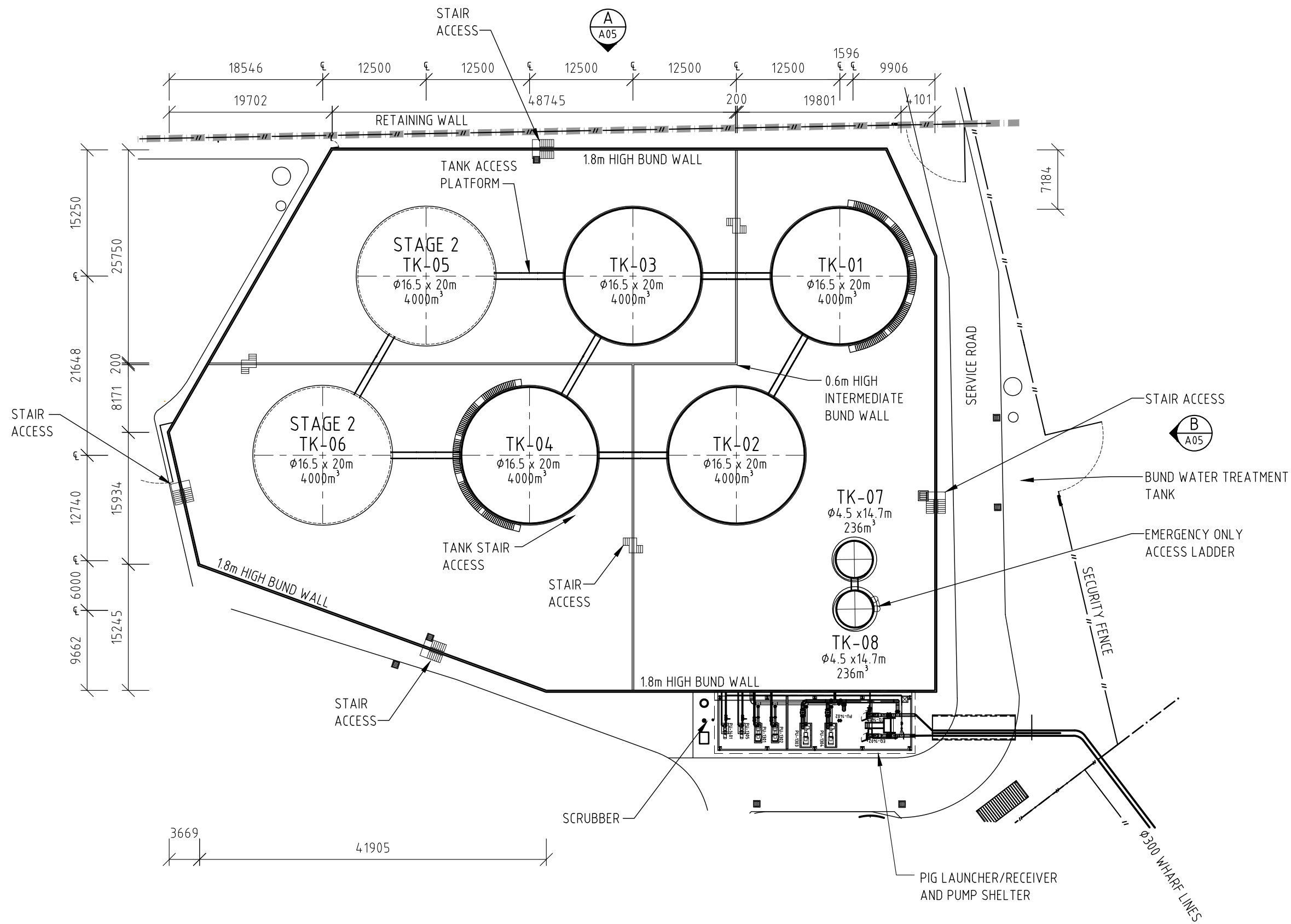


A-Double (30.0m)
 Overall Length 30.0m
 Overall Width 2.500m
 Overall Body Height 4.300m
 Min Body Ground Clearance 0.540m
 Track Width 2.500m
 Lock-to-lock time 6.00s
 Curb to Curb Turning Radius 15.000m

SCALE 1:100



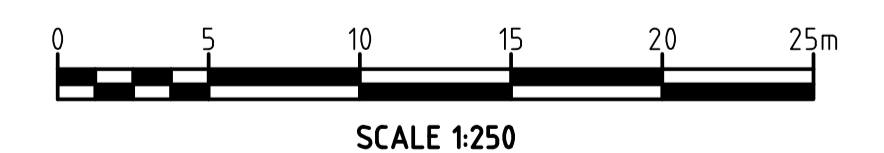
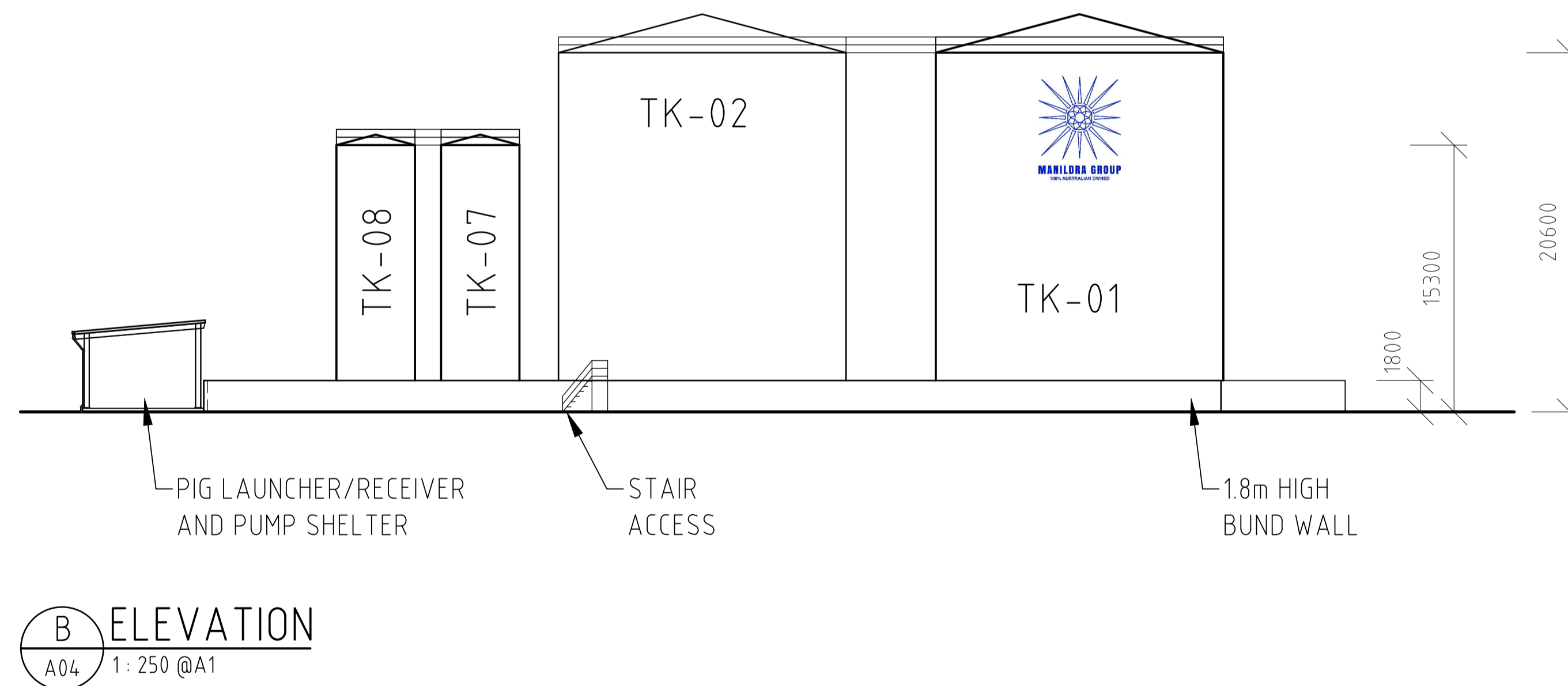
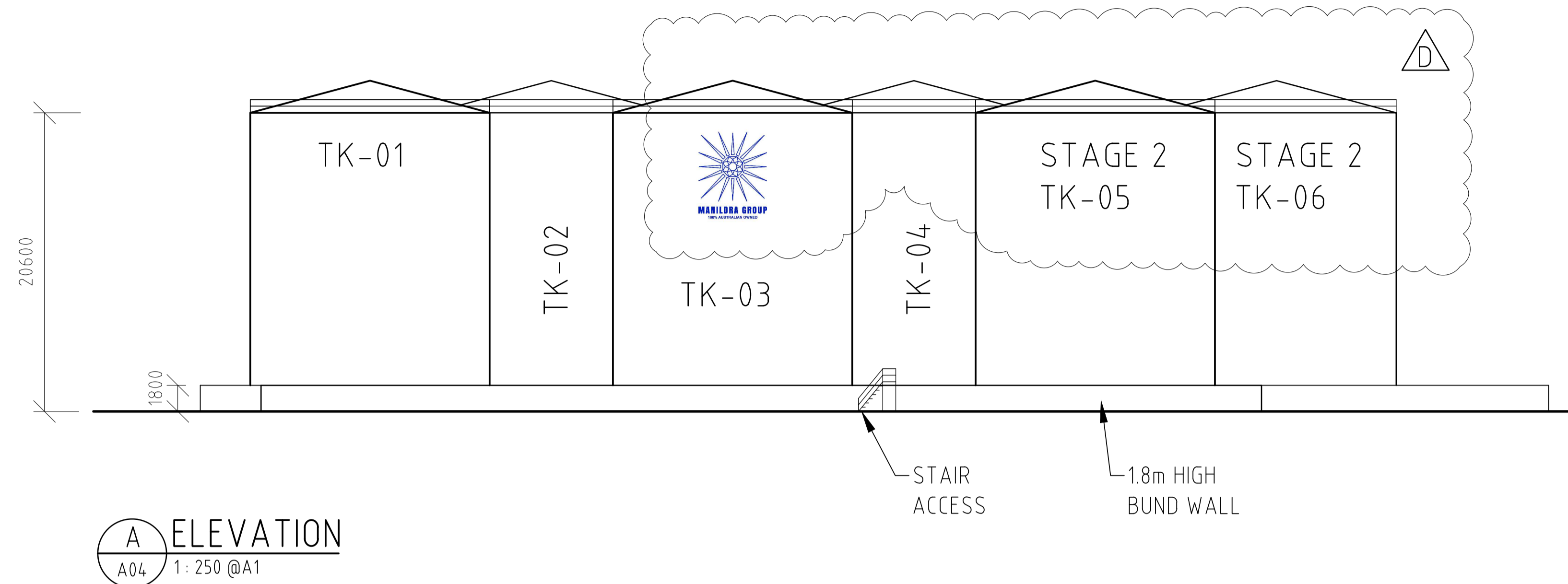
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				B	26.07.21	LCC	PRELIMINARY ISSUE						DATE CREATED	ORIGINAL SCALE
				C	29.07.21	LCC	D.A. ISSUE						25.06.21	1:500
				D	11.10.21	LCC	REVISED SITE BOUNDARIES						DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.	
				E	27.04.22	HE	BOILER CHANGE TO LPG, NSWFR TRUCK ROAD & ACCESS GATE MODIFIED	BV	BP				DRAWING NO	REV
				F	09.05.22	CC	ACCESS GATE MODIFIED	BV	BP				20399-DA-A03	F



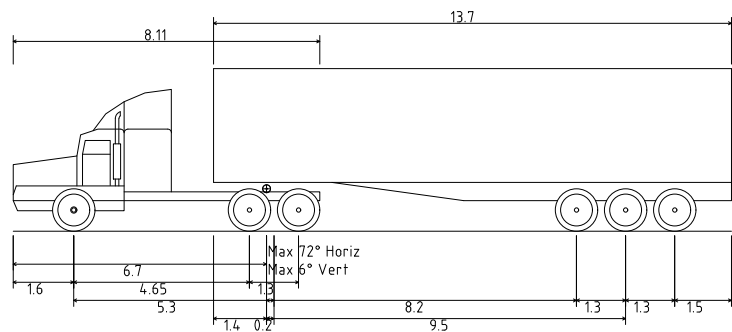
NOTE:
DIMENSIONS ARE TO INSIDE
OF BUND WALL



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	B	26.07.21	LCC	PRELIMINARY ISSUE									DATE CREATED	ORIGINAL SCALE	SHEET
	C	29.07.21	LCC	D.A ISSUE	BV	BP							05.07.21	1:250	A1
	D	11.10.21	LCC	STAGE 2 TANKS NOTED	BV	BP							DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.		
	E	27.04.22	HE	BOILER CHANGE TO LPG & NSWFR TRUCK ROAD MODIFIED	BV	BP							DRAWING NO	REV	
												20399-DA-A04			
												E			

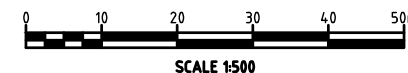
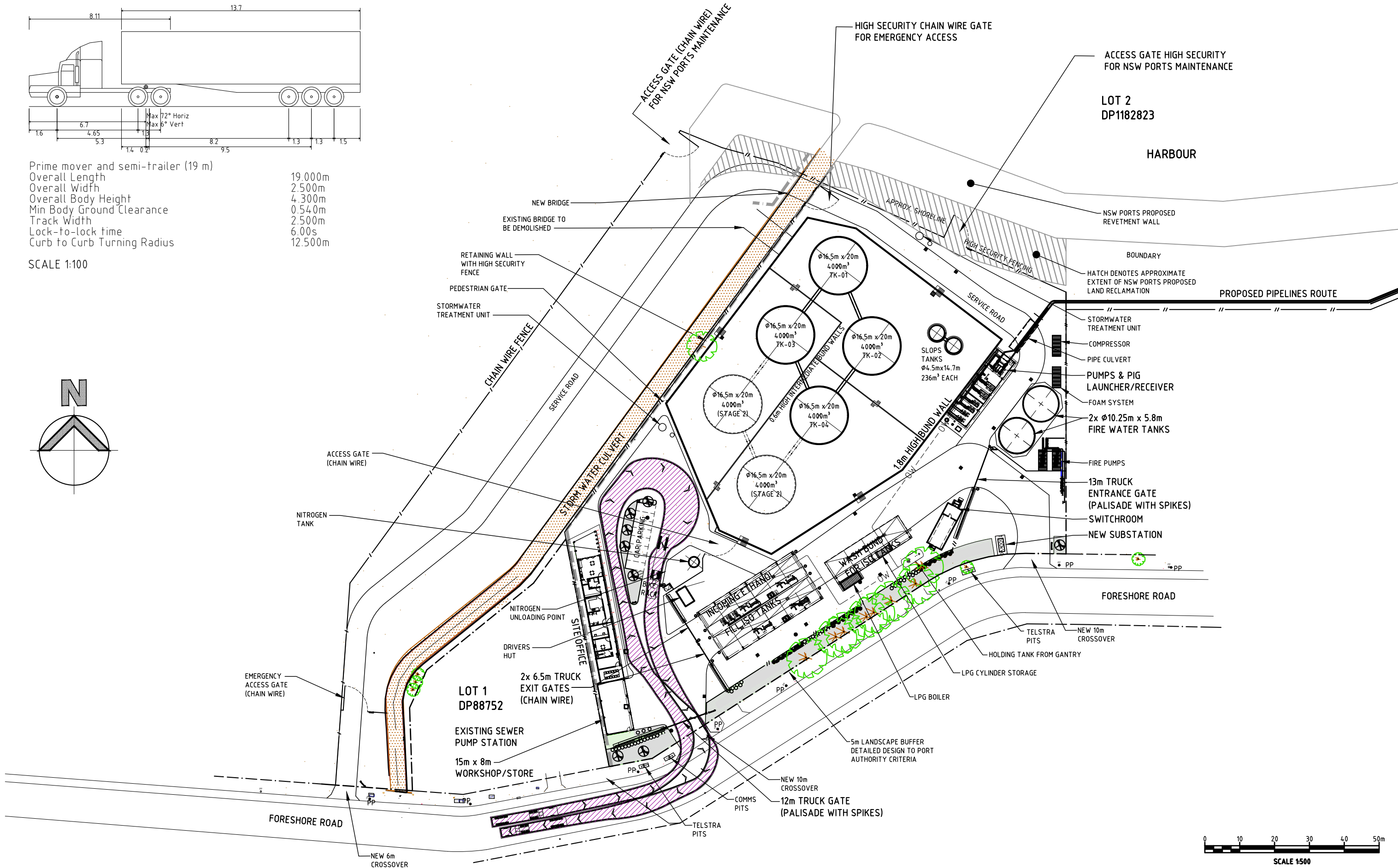
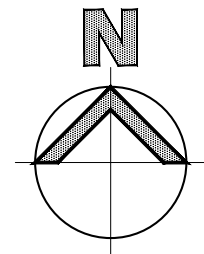


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				B	26.07.21	LCC	PRELIMINARY ISSUE							
				C	29.07.21	LCC	D.A. ISSUE	BV	BP				DATE CREATED ORIGINAL SCALE SHEET 05.07.21 1:250 A1	
				D	11.10.21	LCC	STAGE 2 TANKS NOTED						DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE. DRAWING NO REV 20399-DA-A05 D	

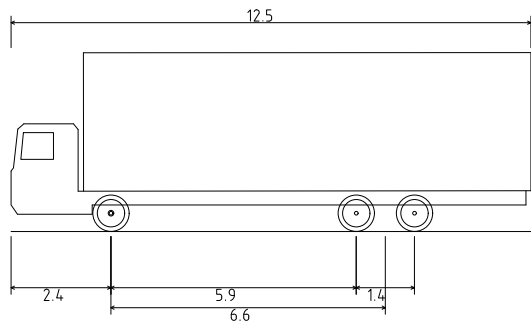


Prime mover and semi-trailer (19 m)
 Overall Length 19.000m
 Overall Width 2.500m
 Overall Body Height 4.300m
 Min Body Ground Clearance 0.540m
 Track Width 2.500m
 Lock-to-lock time 6.00s
 Curb to Curb Turning Radius 12.500m

SCALE 1:100

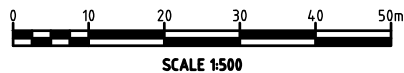
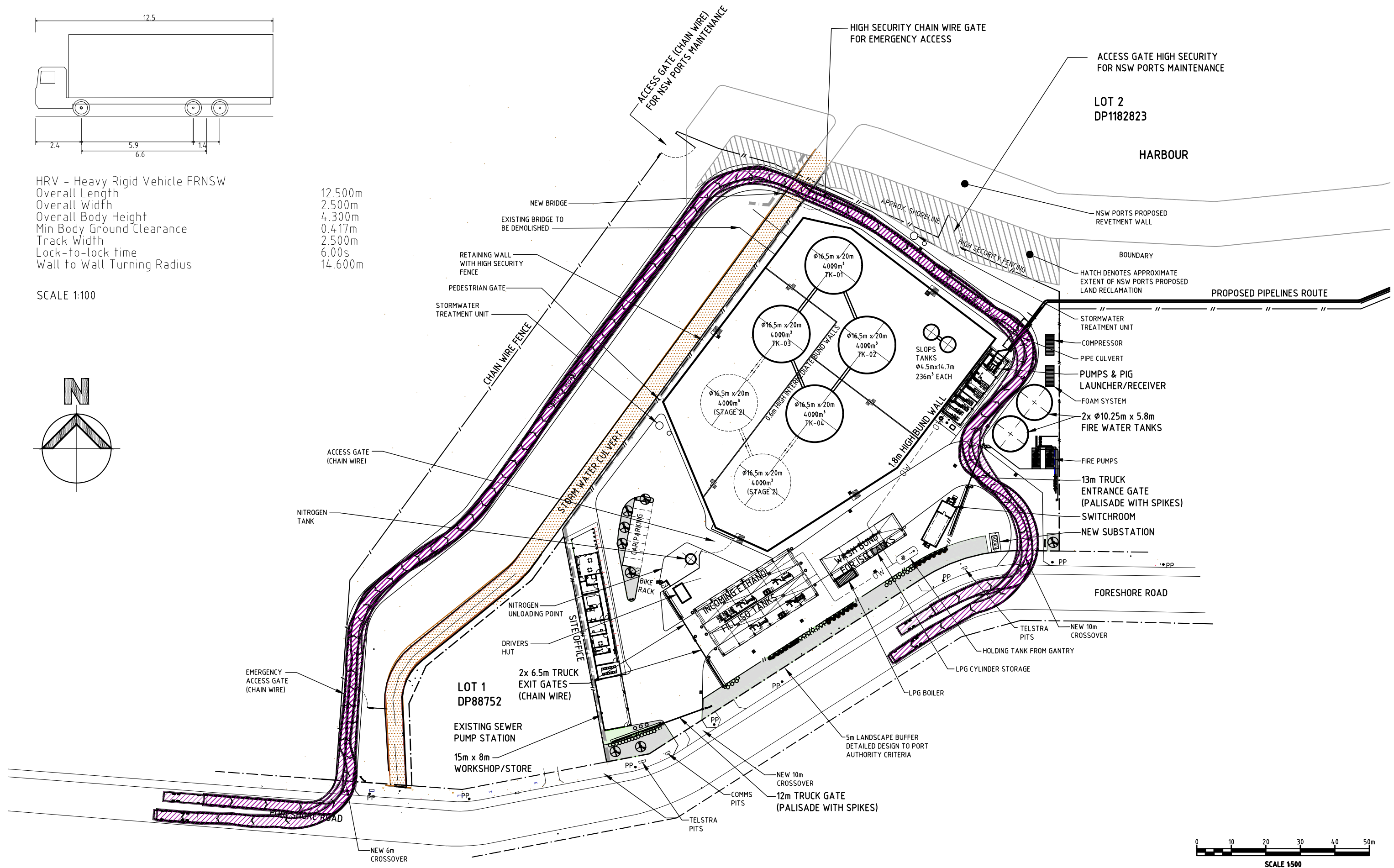
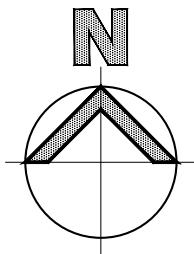


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				B	29.07.21	LCC	D.A. ISSUE	BV	BP					
				C	11.10.21	LCC	REVISED SITE BOUNDARIES	BV	BP					
				D	09.05.22	HE	BOILER CHANGE TO LPG, NSWFR TRUCK ROAD	BV	BP					



HRV - Heavy Rigid Vehicle FRNSW
Overall Length 12.500m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.417m
Track Width 2.500m
Lock-to-lock time 6.00s
Wall to Wall Turning Radius 14.600m

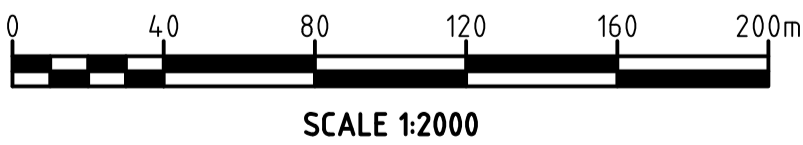
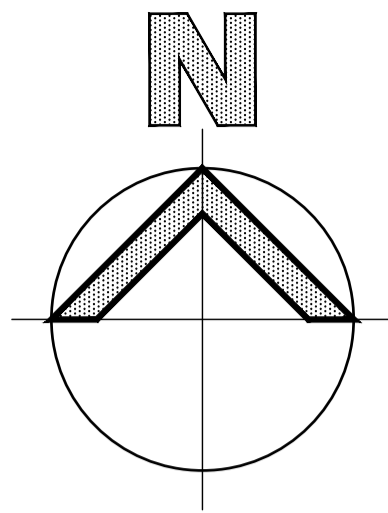
SCALE 1:100



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				B	11.10.21	LCC	REVISED SITE BOUNDARIES	BV	BP				DATE CREATED 11.08.21	ORIGINAL SCALE 1:500	SHEET A1
				C	09.05.22	HE	BOILER CHANGE TO LPG & FRNSW TRUCK ROAD	BV	BP				DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.		
												DRAWING NO 20399-DA-A07		REV B	



PROJECT MANAGERS PLANNERS DESIGNERS ENGINEERS				REV	DATE	BY	DESCRIPTION	CHK	APP	PROJECT CLIENT	PROJECT DETAILS	DRAWING TITLE	STATUS			
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	B	21.06.22	HE	UPDADTED SITE BOUNDARY	BV	BP				DATE CREATED	ORIGINAL SCALE	SHEET				
										11.10.21	1:500	A1				
	DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.															
	DRAWING NO												REV			
	20399-DA-A08												B			



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				B	14.10.21	LCC	WHARF AREA INCLUDED	BV	BP				DATE CREATED	ORIGINAL SCALE	SHEET
				C	21.06.22	HE	UPADTED SITE BOUNDARY	BV	BP				09.08.21	1:2000	A1
DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.												DRAWING NO	REV		
												20399-DA-F01	C		

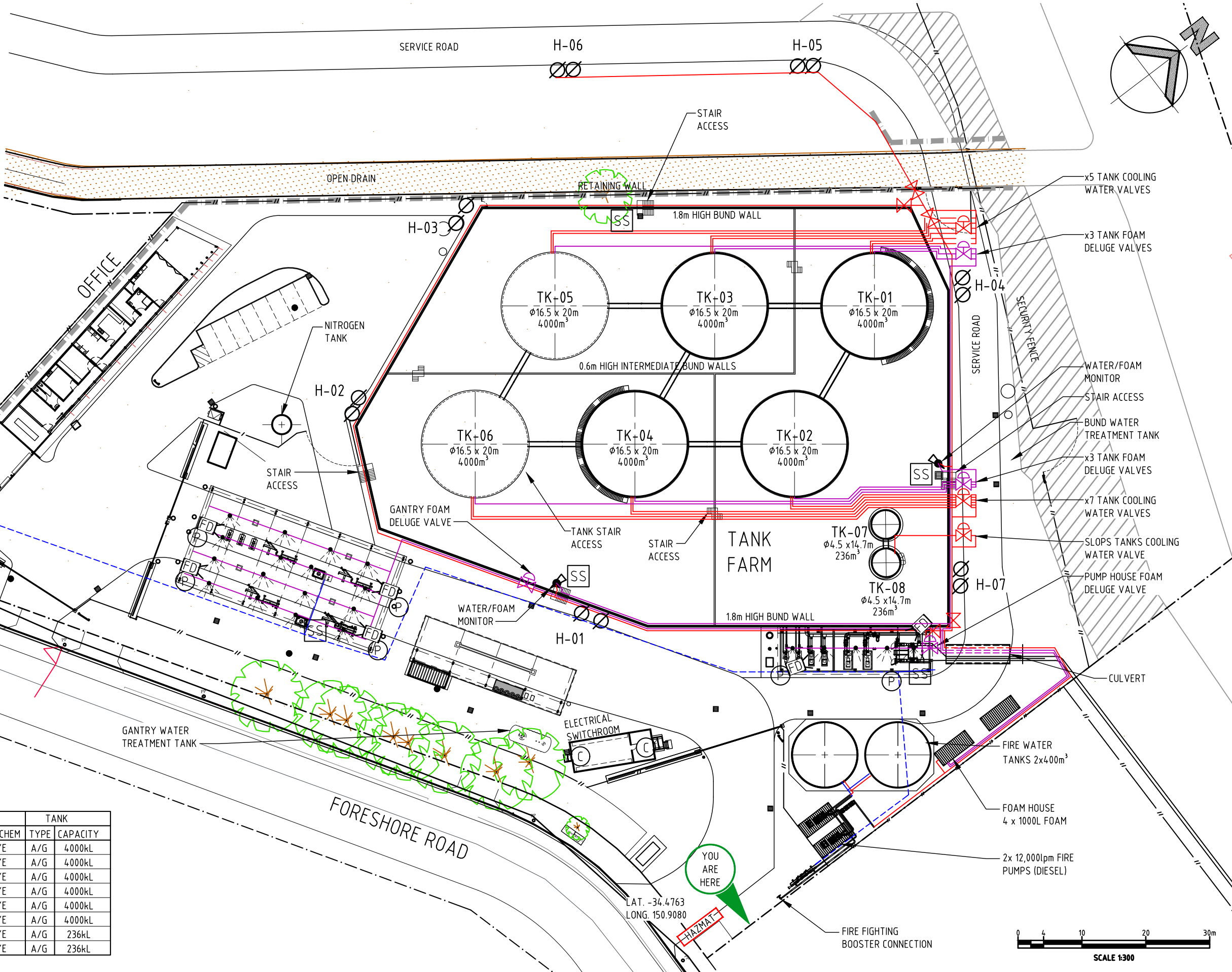
FIRE FIGHTING EQUIPMENT LEGEND	
	FIRE HYDRANT
	WATER/FOAM MONITOR
	9KG PORTABLE POWDER FIRE EXTINGUISHER
	5KG PORTABLE CO2 FIRE EXTINGUISHER
	PORTABLE FOAM FIRE EXTINGUISHER
	SAFETY SHOWER WITH EYE WASH
	ISOLATING GATE VALVE
	DELUGE CONTROL VALVE
	HAZMAT BOX
	FLAME DETECTOR
	SPRAY NOZZLE

- LEGEND:
- POTABLE WATER A/G
 - POTABLE WATER BURIED
 - FIREWATER A/G
 - FIREWATER BURIED
 - FOAM A/G
 - FOAM BURIED

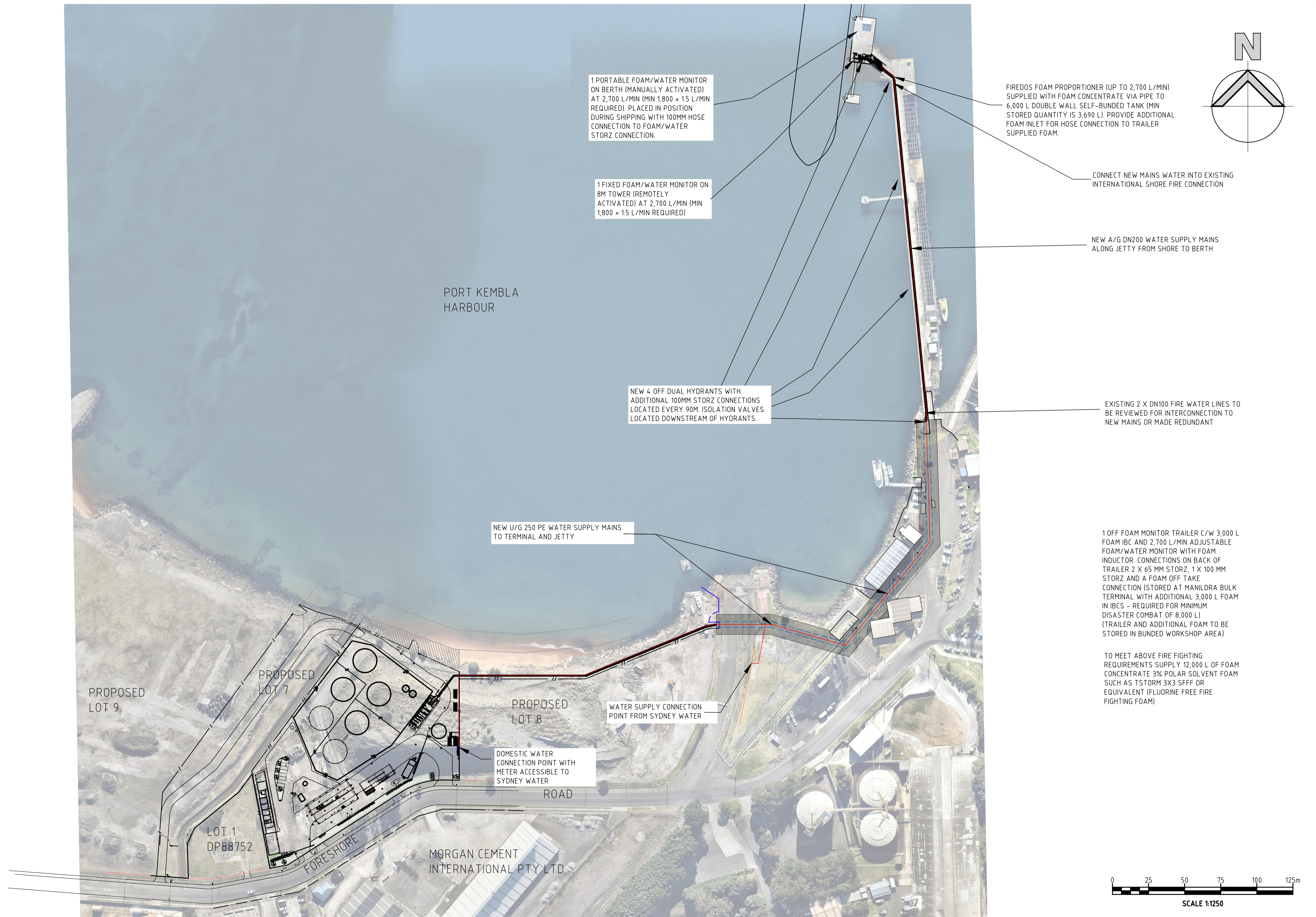
- NOTES:
- MAXIMUM LENGTH OF PIPING BETWEEN HYDRANTS MUST BE LESS THAN 60m
 - POTABLE WATER AND BURIED FIREWATER LINE ROUTE SHOWN INDICATIVE ONLY.
 - ALL DELUGE CONTROL VALVES MOUNTED EXTERNALLY BEHIND BUND WALL.

BULK STORAGE

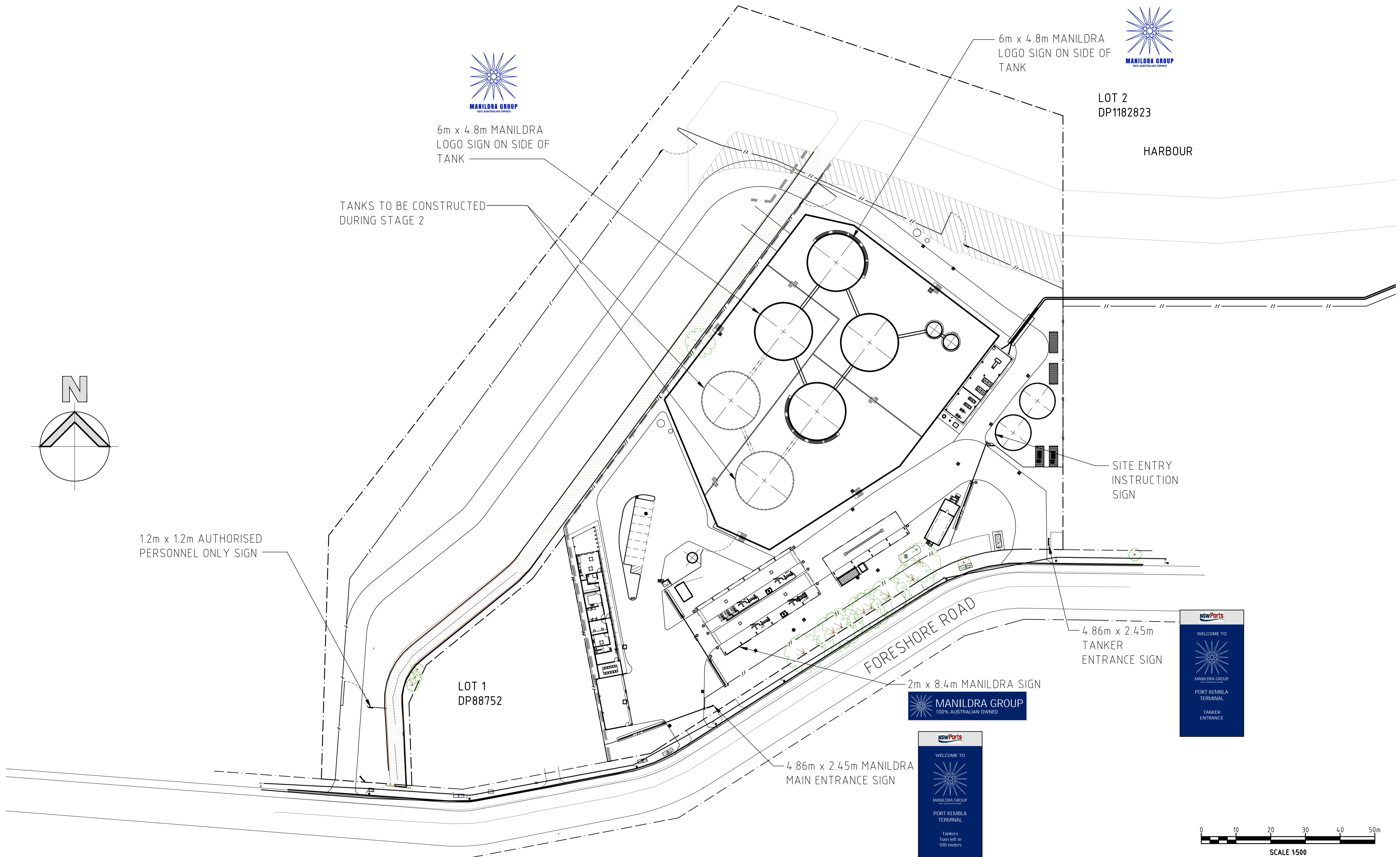
TANK No.	DANGEROUS GOODS						TANK	
	NAME	CLASS	SUB RISK/s	UN No.	PG	HAZCHEM	TYPE	CAPACITY
TK-0100	ETHANOL	3	N/A	1170	II	2YE	A/G	4000kL
TK-0200	ETHANOL	3	N/A	1170	II	2YE	A/G	4000kL
TK-0300	ETHANOL	3	N/A	1170	II	2YE	A/G	4000kL
TK-0400	ETHANOL	3	N/A	1170	II	2YE	A/G	4000kL
TK-0500	ETHANOL	3	N/A	1170	II	2YE	A/G	4000kL
TK-0600	ETHANOL	3	N/A	1170	II	2YE	A/G	4000kL
TK-0700	SLOPS	3	N/A	1170	II	2YE	A/G	236kL
TK-0800	SLOPS	3	N/A	1170	II	2YE	A/G	236kL



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	B	14.10.21	LCC	RE-ISSUE FOR D.A.	BV	BP					DATE CREATED	ORIGINAL SCALE	SHEET		
	C	27.10.21	LCN	SECONDARY ISSUE FOR DA	BV	BP					06.08.21	1:300	A1		
	D	06.06.21	CC	REVISED SAFETY SHOWERS	BV	BP					DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.				
												DRAWING NO		REV	
												20399-DA-F02		D	



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	B	06.06.22	CC	REVISED FOR ENHANCED FIRE REQUIREMENTS	BV	BP			DATE CREATED	ORIGINAL SCALE	SHEET					
	C	23.06.22	HE	FOAM STORAGE NOTED AS BUNDED	BV	BP			29.06.21	1:1250	A1					
DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.													DRAWING NO		REV	
													20399-DA-F03		C	



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	B	11.10.21	LCC	MAIN SIGNS TO MATCH PORT'S BLADE SIGNS	BV	BP						DATE CREATED 18.08.21	ORIGINAL SCALE 1:500	SHEET A1					
	DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.																		
	DRAWING NO												REV						
	20399-DA-Y01												B						

STORMWATER CATCHMENT LEGEND:

- MAIN COMPOUND BUND/CATCHMENT
- HOLDING TANK CATCHMENT
- TREATED CATCHMENT
- UNTREATED CATCHMENT
- ISO TANKS WASH BUND CATCHMENT
- PUMPS & PIG LAUNCHER BUND CATCHMENT

DRAINAGE & GRADING LEGEND:

- UNDERGROUND STORMWATER DRAINAGE
- UNDERGROUND RAINWATER
- UNDERGROUND VALVED CONTROLLED DRAINAGE
- UNDERGROUND DRAINAGE TO HOLDING TANK
- PROPERTY BOUNDARY
- PROPOSED RETAINING WALL
- EXISTING MINOR CONTOURS (0.2m INTERVALS)
- EXISTING MAYOR CONTOURS (1m INTERVALS)
- PUMP DISCHARGE TO SLOPS TANKS (INDICATIVE ONLY)
- PUMPED DISCHARGE TO HUMES HUMEGARD
- SECURITY FENCE
- GP STORMWATER GULLY PIT
- GP1 STORMWATER/ETHANOL SPILLS GULLY PIT
- VP COLLECTION PIT
- DP DOWNPIPE
- MH STORMWATER MANHOLE
- TD TRENCH DRAIN
- RWT RAINWATER TANKS FOR IRRIGATION PURPOSES
- (1000) APPROXIMATE RETAINING WALL HEIGHT
- DIRECTION OF SURFACE FALL
- HT HOLDING TANK
- PS MAIN COLLECTION CHAMBER
- WS WET SCRUBBER TANK IN A CONCRETE SURFACED BUNDED AREA WITH A VALVED PIT
- HW PROPOSED HEADWALL

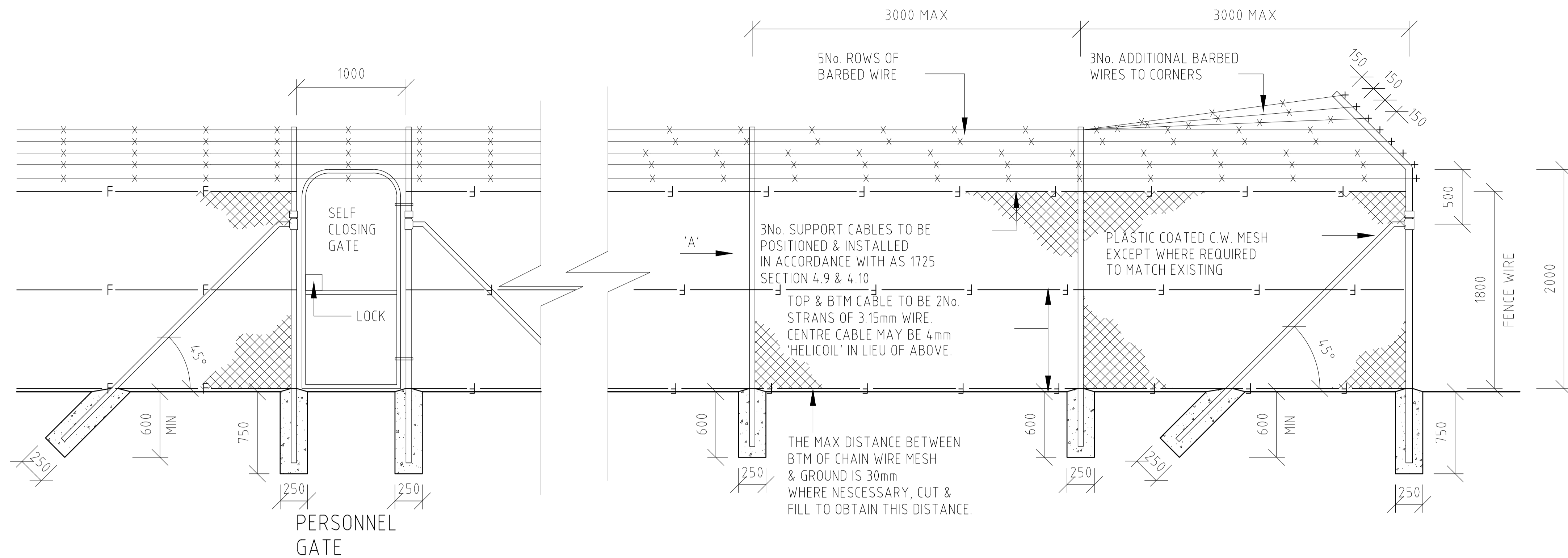


NAME: JUAN D. AVELLA DATE: 05.10.2021

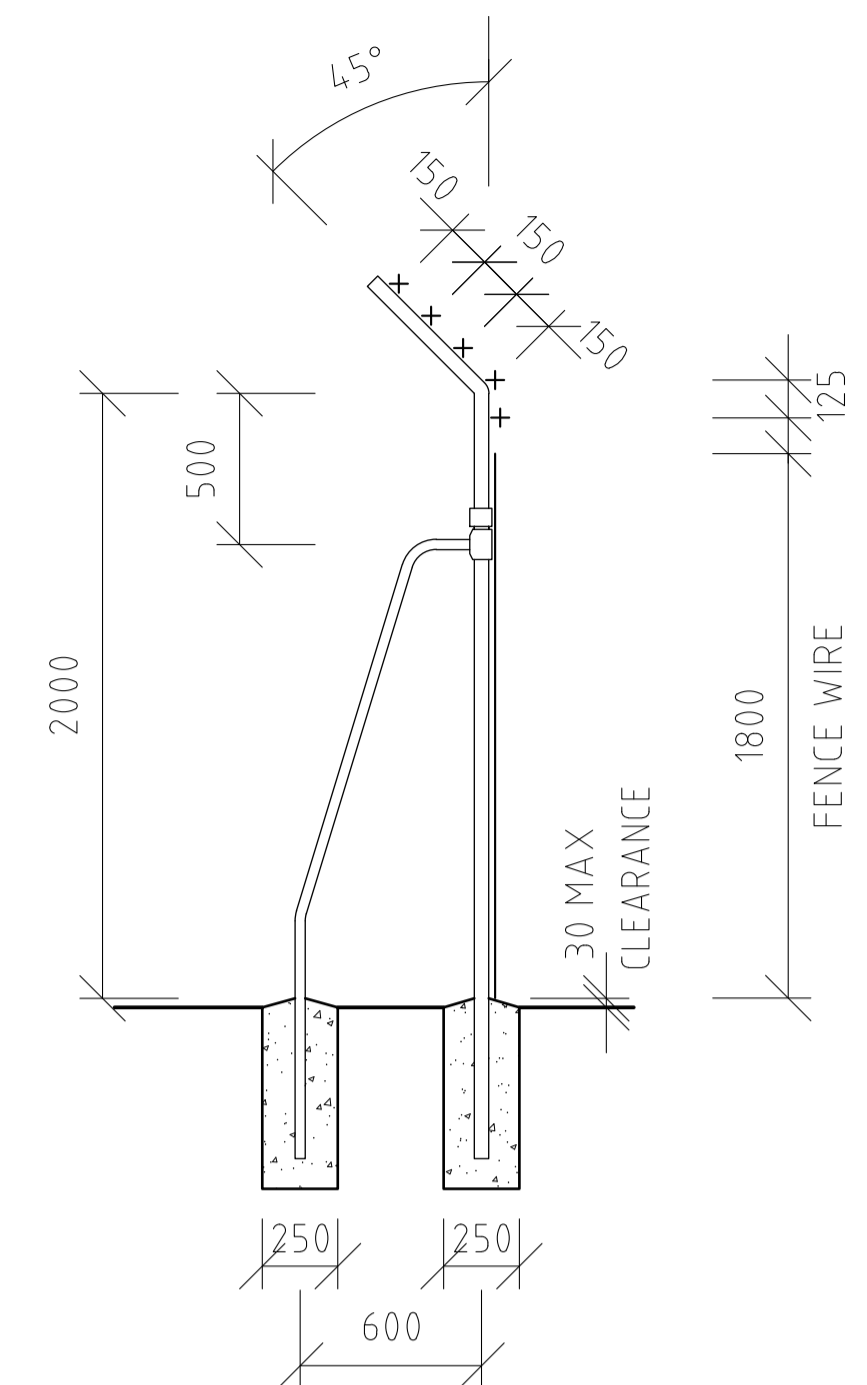
PROFESSIONAL QUALIFICATION: MIEAust, CPEng, NER

SIGNATURE:

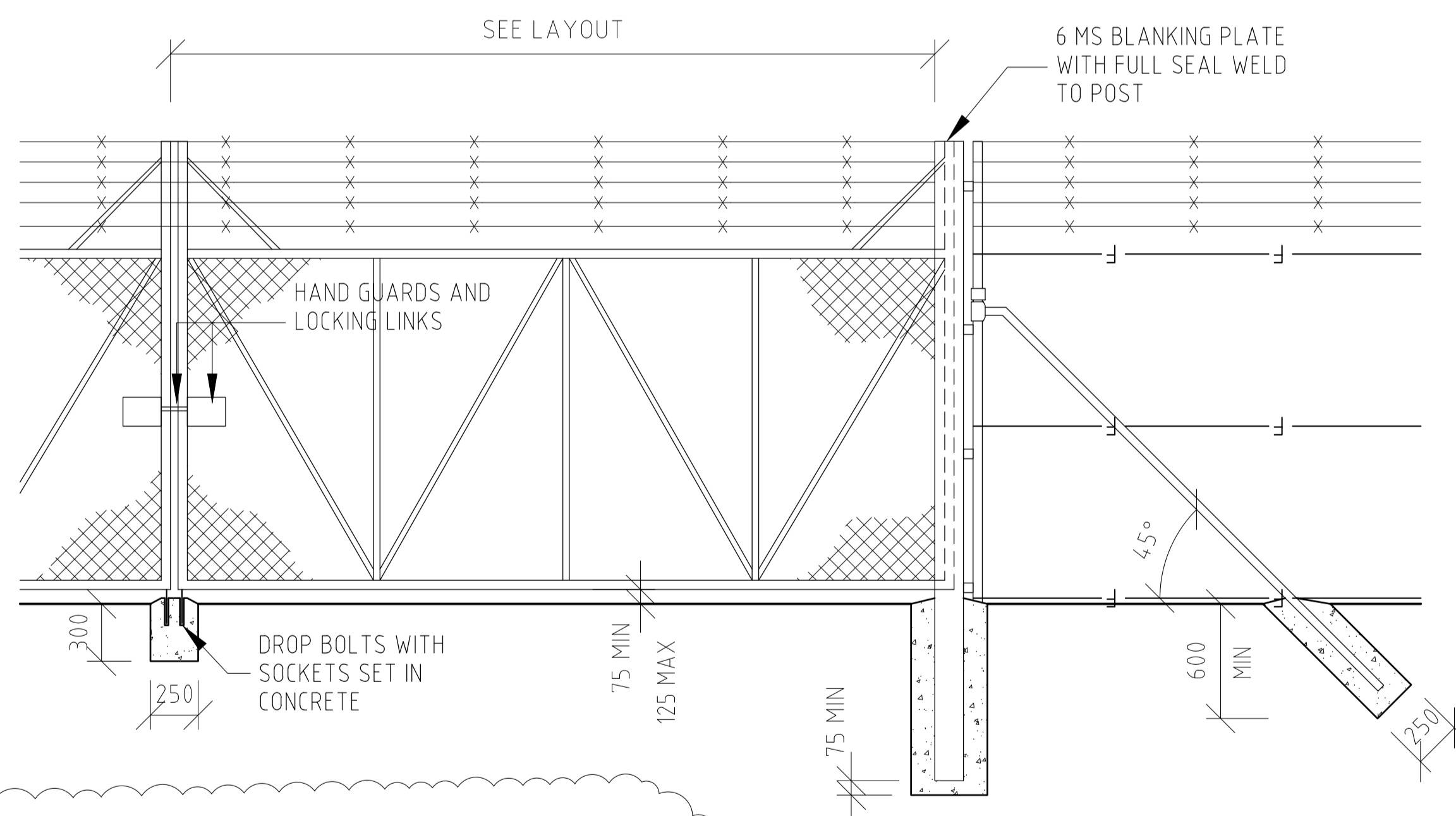
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				B	19.07.2021	LS	DRAINAGE SYSTEM REVISED						DATE CREATED	ORIGINAL SCALE	SHEET
				C	18.08.2021	LS	D.A. ISSUE						14.05.2021	1:1000	A3
				D	05.10.2021	LS	TREATMENT AREAS UPDATED. DIVERSION DRAIN/SWALE ADDED						DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.		
				E	07.10.2021	LS	HUMES HUMEGARD ADDED INSTEAD OF SPEL VORTCEPTOR						DRAWING NO	REV	
				F	12.10.2021	LS	TREATMENT AREA EXTENDED TO NORTH BOUNDARY						20399-DA-C01	F	



CORNER AND INTERMEDIATE PANELS



VERTICAL BRACE
VIEW 'A'

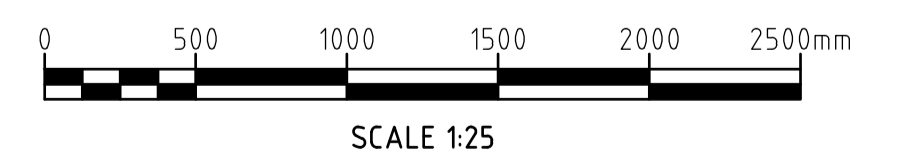


LARGE GATES
INTERNAL & EMERGENCY ACCESS ONLY

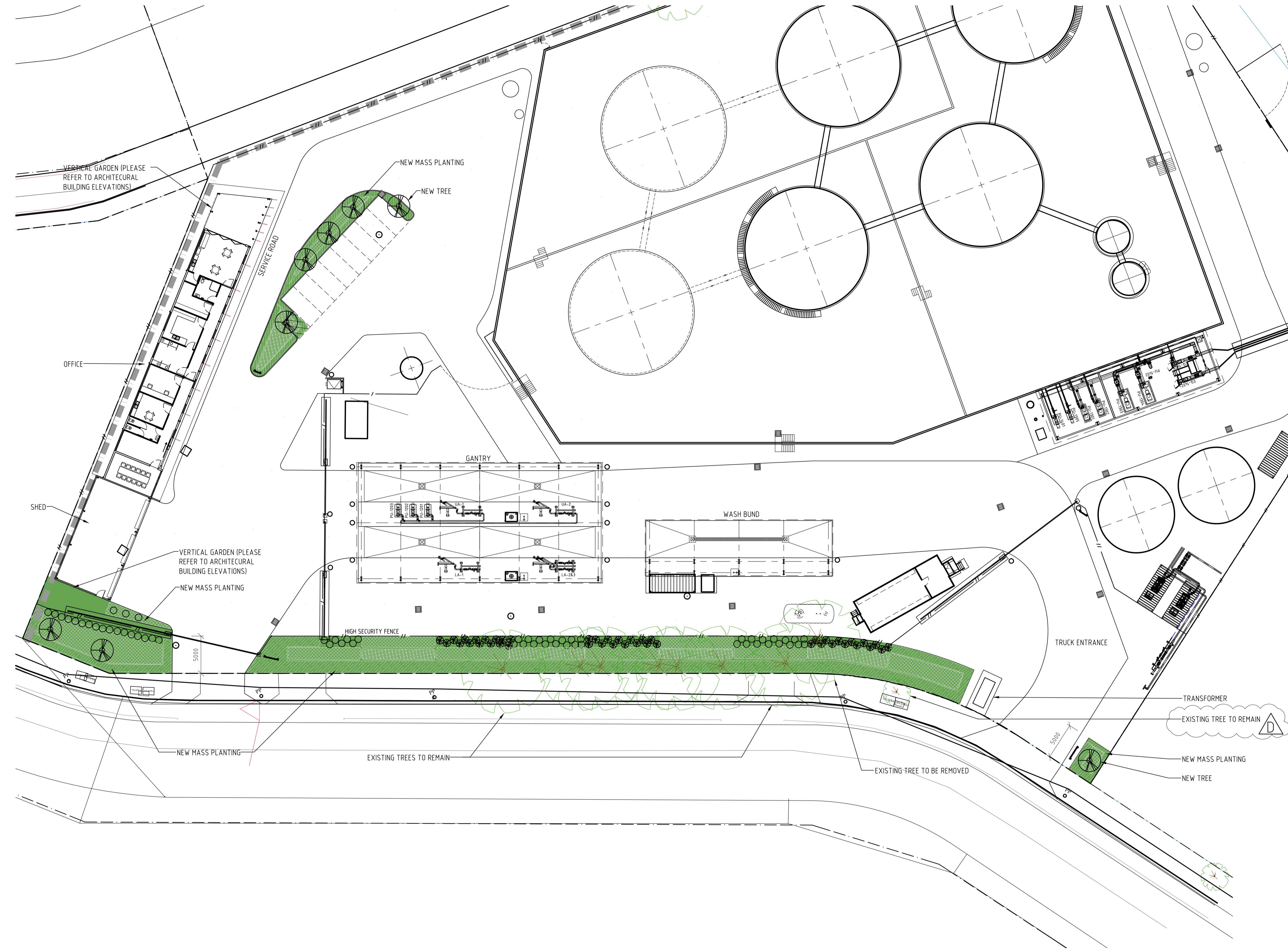
NOTE:
PALISADE GATES WITH SPIKES (MAIN TRUCK ENTRY/EXIT)

GATES										
GATE OPENING	NOMINAL LEAF WIDTH	TYPE	GALVANISED MEDIUM WEIGHT PIPE							
			OUTER FRAME TUBE	INNER FRAME TUBE	DIAGONAL BRACING		TOP DIAGONAL BRACING FOR WIRE	GATE POST	GATE POST FOOTING	
			N.B.	N.B.	O.D.	TYPE	N.B.	N.B.	N.B.	DEPTH
1000	1000		25	25	-		15	50	250	750
6000	3000		32	25	-		15	80	400	1000
6000 - 8000	3000 - 4000		32	25	25 x 5	GALV. CARB. STEEL FLAT	15	100	400	1000
8000 - 10000	4000 - 5000		40	25	26.9	2.6	15	150	400	1000
10000 - 12000	5000 - 6000		40	25	26.9	2.6	15	152 x 4.9 SHS	400	1000
FENCES										
GALVANISED STEEL PIPE										
CORNER POST			50 N.B. MEDIUM PIPE							
INTERMEDIATE POST			40 N.B. LIGHT PIPE							
DIAGONAL STAYS AND BRACES			32 N.B. LIGHT PIPE							
VERTICAL BRACES			25 N.B. LIGHT PIPE							

- NOTES:
- ALL FENCE COMPONENTS TO BE PAINTED BLACK
 - CHAIN WIRE TO BE BLACK PLASTIC COATED



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	A	25.06.21	LCC	PRELIMINARY ISSUE			 <p>MANILDRA GROUP 100% AUSTRALIAN OWNED</p>	MANILDRA GROUP PORT KEMBLA BULK LIQUIDS FACILITY FORESHORE ROAD PORT KEMBLA, NSW	SECURITY FENCING DETAILS	D.A. ISSUE			
	B	29.07.21	LCC	D.A. ISSUE	BV	BP				DATE CREATED	ORIGINAL SCALE	SHEET	
	C	11.10.21	LCC	UPDATED NOTES	BV	BP				25.06.21	1:25	A1	
	DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.											DRAWING NO	
											20399-DA-C90		C



NOTE:

1. RAIN WATER TANKS ARE PROVIDED FROM ROOFS OF TRUCK GRANTRY AND OFFICE BUILDING. AUTOMATIC WATER SPRINKLER/DRIPPER SYSTEM INSTALLED TO ALL LANDSCAPED AREAS SHOWN.

2. NEW MASS PLANTING SPECIES AS SHOWN OR ALTERNATIVES FROM SPECIFIED LIST IN PORT KEMBLA DEVELOPMENTS CODE.

AREA:

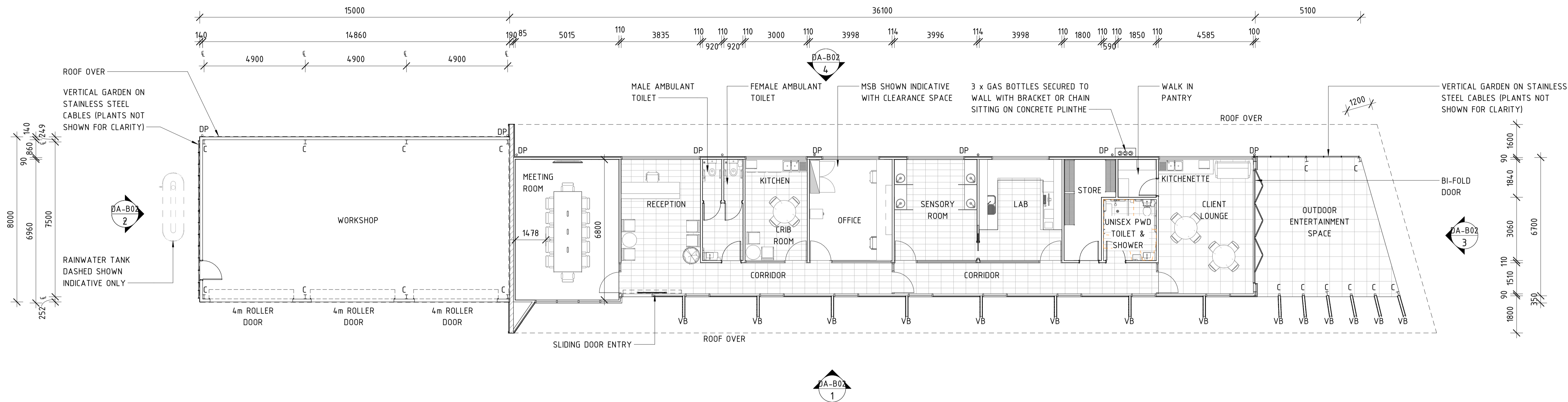
PROPOSED LANDSCAPING AREA : 710 m² (APPROX.)


- LEGEND
- LANDSCAPED AREAS
 - FLAX LILLY (DIANELLA CAERULEA)
 - TUSOCK GRASS (POA LABILLARDIEN)
 - DUNE FAN FLOWER (SCAEVOLA CAENDULACEA)
 - BEACH LILLY (CRINUM PEDUNCULATUM)
 - AUSTRALIAN INDIGO (INDIGOFERA AUSTRALIS)
 - LILLY PILLY (SYZGIUM SMITHII)
 - EXISTING TREE TO BE RETAINED
 - EXISTING TREE TO BE REMOVED
 - VERTICAL GARDEN (TBC)

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				B	29.07.21	LCC	D.A. ISSUE	BV	BP				DATE CREATED	ORIGINAL SCALE	SHEET
				C	16.08.21	SA	D.A. ISSUE						05.07.21	1:250	A1
				D	14.10.21	LCC	TREE TO REMAIN						DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.		
												DRAWING NO		REV	
												20399-DA-L01		D	

- NOTES:
- NOT TO BE USED FOR TENDER OR CONSTRUCTION. EXTERIOR FINISHES & COLOURS ARE INDICATIVE ONLT AND TO BE CONFIRMED AT DETAIL DESIGN STAGE
 - INTERNAL FIT-OUT TO BE COMPLETED AT DETAIL DESIGN STAGE

- LEGEND:
- DP DOWNPIPE
C STEEL COLUMN (SIZE TBC BY ENGINEER A DETAIL DESIGN STAGE)
VB VERTICAL BLADE






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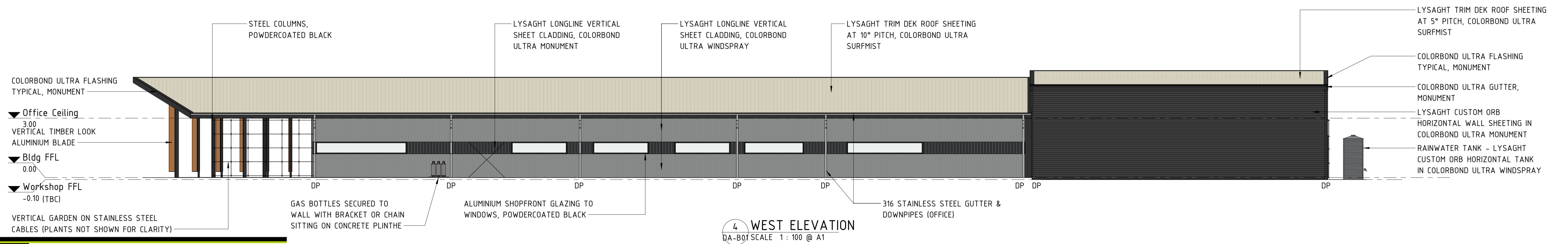
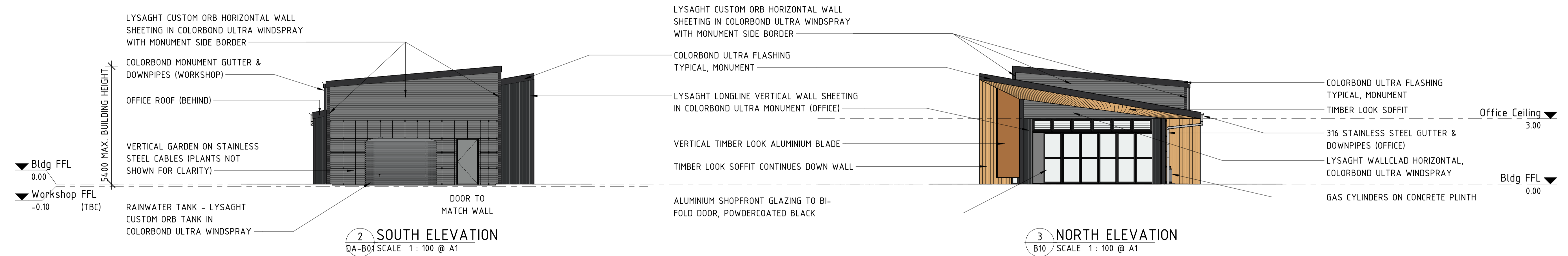
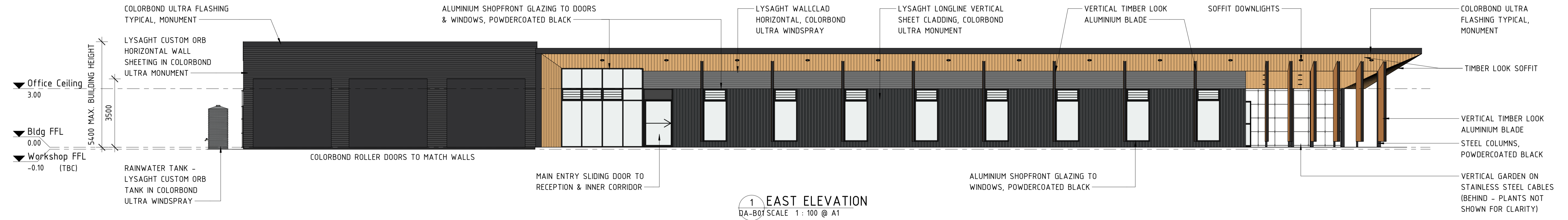
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REV	DATE	BY	DESCRIPTION	CHK	APP	PROJECT CLIENT	PROJECT DETAILS	DRAWING TITLE	STATUS		
A	23.06.21	LCC	PRELIMINARY ISSUE			 MANILDRA GROUP 100% AUSTRALIAN OWNED	MANILDRA GROUP PORT KEMBLA BULK LIQUIDS FACILITY FORESHORE ROAD PORT KEMBLA, NSW	SITE OFFICE & WORKSHOP FLOOR PLAN	PRELIMINARY ISSUE		
B	28.07.21	MG	DA ISSUE						DATE CREATED	ORIGINAL SCALE	SHEET
C	10.08.21	MG	PRELIMINARY ISSUE						23.06.21	1 : 100	A1
D	13.08.21	MG	DA ISSUE						DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.		
E	22.12.21	MG	PRELIMINARY ISSUE FOR REVIEW						DRAWING NO	REV	
F	18.05.22	MG	DA ISSUE	PS PS					20399-DA-B01	F	

- NOTES:
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 - INTERNAL FIT-OUT TO BE COMPLETED AT DETAIL DESIGN STAGE
 - MEMBER SIZING, FRAMING, STRUCTURAL & ARCHITECTURAL DETAILS TO BE PROVIDED ON CONSTRUCTION ISSUE DRAWINGS
- LEGEND:
- DP DOWNPIPE





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REV	DATE	BY	DESCRIPTION	CHK	APP	PROJECT CLIENT	PROJECT DETAILS	DRAWING TITLE	STATUS
A	23.06.21	LCC	PRELIMINARY ISSUE				MANILDRA GROUP	SITE OFFICE & WORKSHOP	PRELIMINARY ISSUE
B	28.07.21	MG	DA ISSUE				PORT KEMBLA		
C	13.08.21	MG	DA ISSUE	PS			BULK LIQUIDS FACILITY	ELEVATIONS	
D	14.10.21	MG	DA ISSUE	PS			FORESHORE ROAD		
E	22.12.21	MG	PRELIMINARY ISSUE FOR REVIEW	PS			PORT KEMBLA, NSW		
F	18.05.22	MG	DA ISSUE						

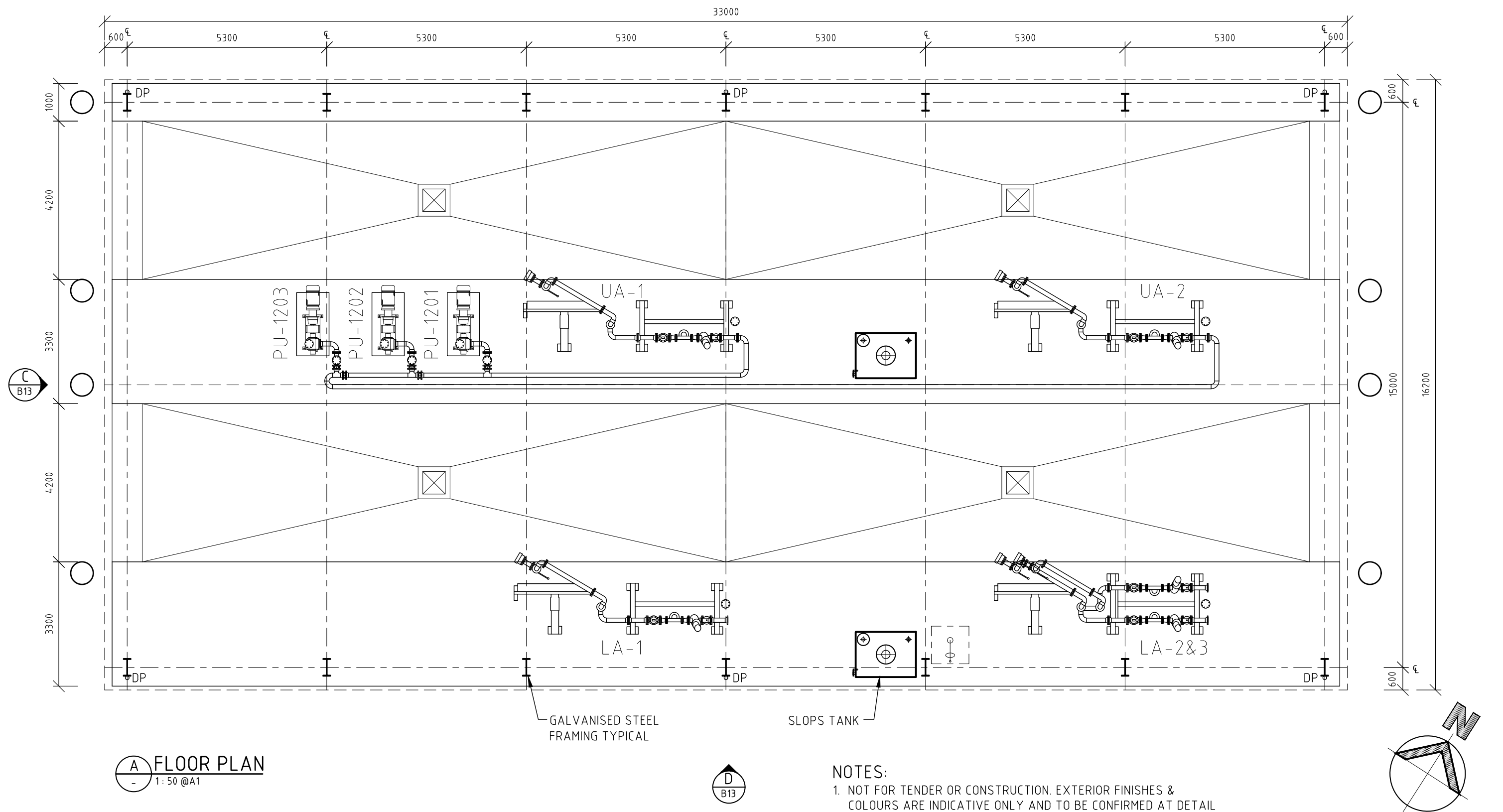


MANILDRA GROUP
100% AUSTRALIAN OWNED

MANILDRA GROUP
PORT KEMBLA
BULK LIQUIDS FACILITY
FORESHORE ROAD
PORT KEMBLA, NSW

SITE OFFICE & WORKSHOP
ELEVATIONS

DATE CREATED	ORIGINAL SCALE	SHEET
23.06.21	1 : 100	A1
DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.		
DRAWING NO	REV	
20399-DA-B02	F	

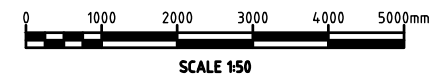


A FLOOR PLAN
1: 50 @A1

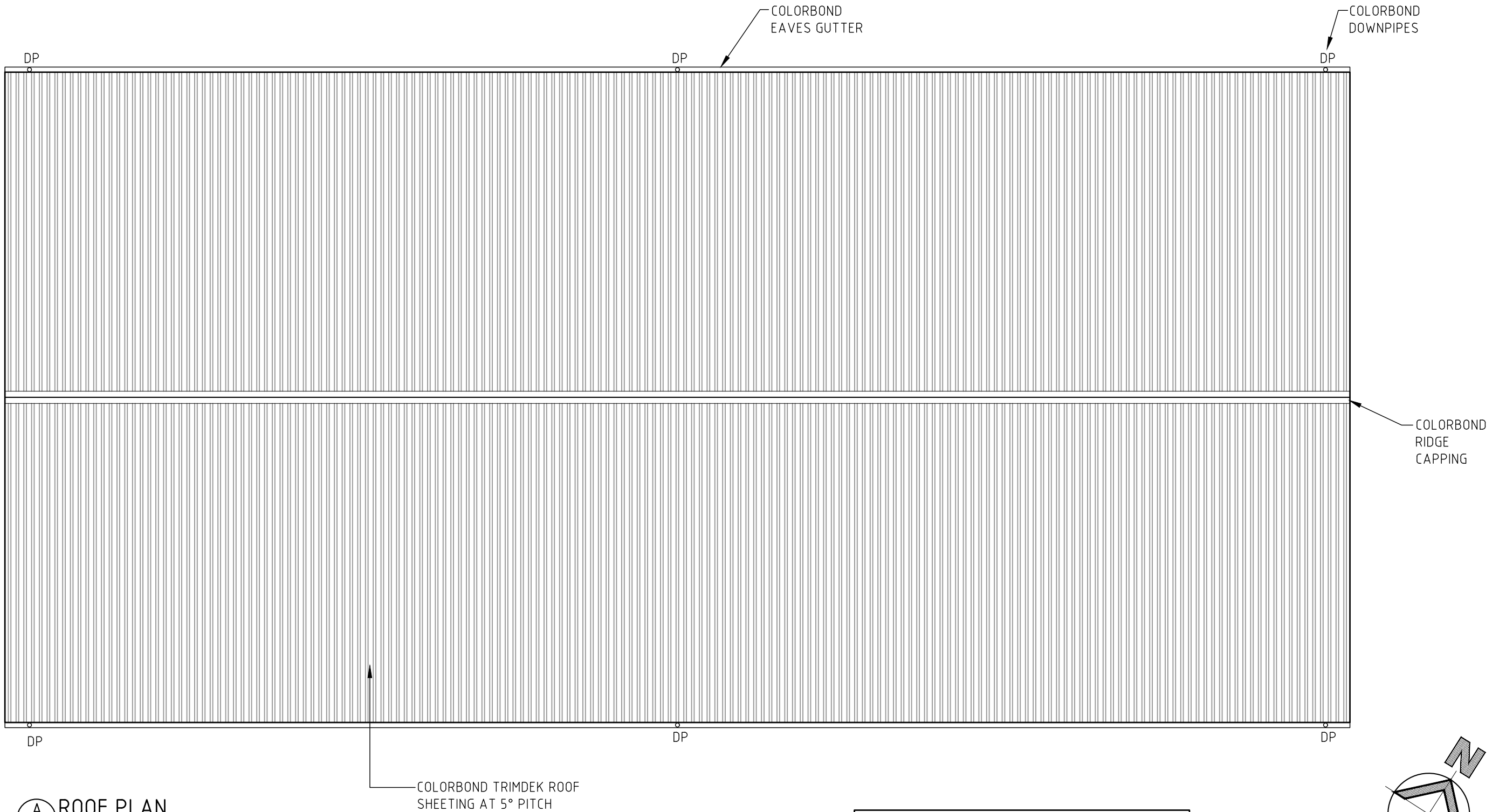
D
B13

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2. FULL EQUIPMENT AND PIPEWORK DETAILS OMITTED FOR CLARITY.
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4. COVERING ROOF TO BE PROVIDED OVER FULL EXTENT OF GANTRY BUILDING AREA. STORMWATER DETAILS TO BE PROVIDED ON CONSTRUCTION ISSUE DRAWINGS.



PROJECT MANAGERS PLANNERS DESIGNERS ENGINEERS				REV	DATE	BY	DESCRIPTION	CHK	APP	PROJECT CLIENT	PROJECT DETAILS	DRAWING TITLE	STATUS		
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				B	29.07.21	LCC	D.A. ISSUE						DATE CREATED 23.06.21	ORIGINAL SCALE 1:50	SHEET A1
				C	18.05.22	MG	D.A. ISSUE						DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.		
				D	23.05.22	MG	D.A. ISSUE						DRAWING NO 20399-DA-B11	REV D	

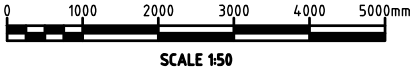


A ROOF PLAN
1: 50 @A1

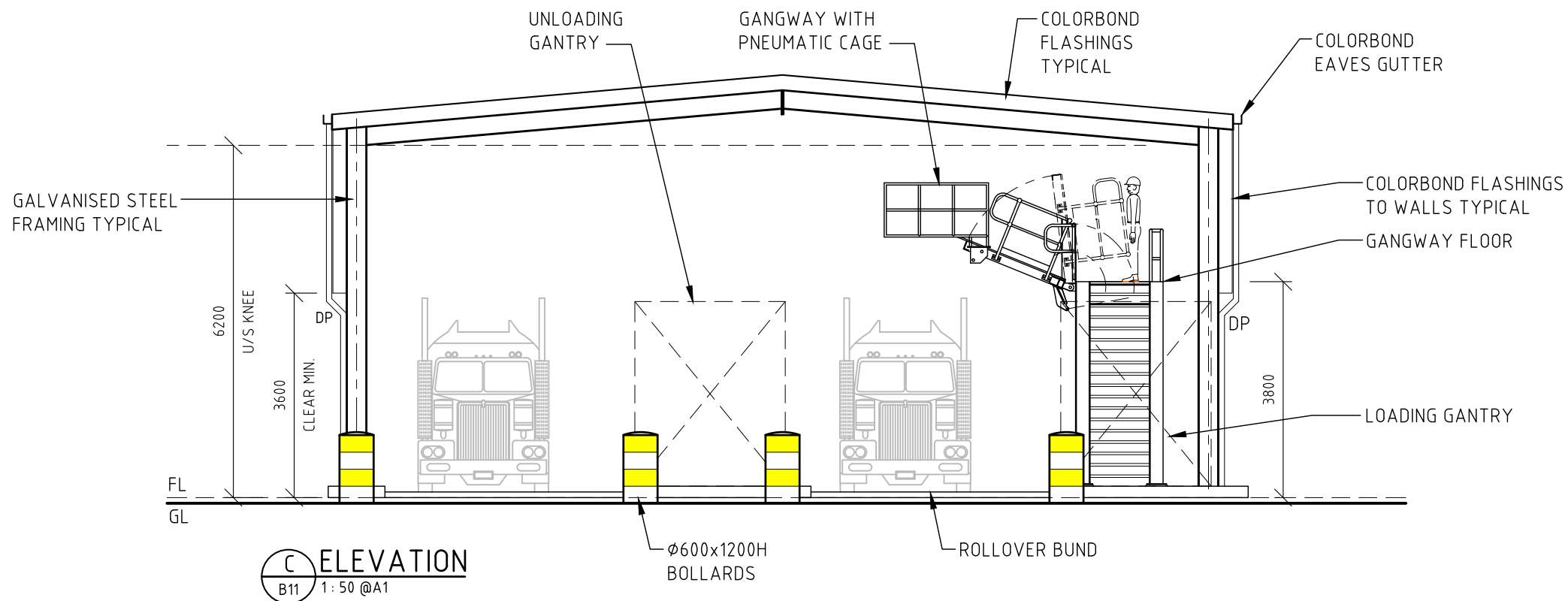
LEGEND
DP DOWNPIPE

NOTES:
1. NOT FOR TENDER OR CONSTRUCTION. EXTERIOR FINISHES & COLOURS ARE INDICATIVE ONLY AND TO BE CONFIRMED AT DETAIL DESIGN STAGE

COLOURS	
ROOF	COLORBOND ULTRA SURFMIST
ROOF RIDGE CAPPING	COLORBOND ULTRA MONUMENT
EAVES	COLORBOND ULTRA MONUMENT
GUTTERS	COLORBOND ULTRA MONUMENT
WALLS	COLORBOND ULTRA MONUMENT
DOWNPIPES	COLORBOND ULTRA MONUMENT



PROJECT MANAGERS PLANNERS DESIGNERS ENGINEERS				REV	DATE	BY	DESCRIPTION	CHK	APP	PROJECT CLIENT	PROJECT DETAILS	DRAWING TITLE	STATUS			
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	B	29.07.21	LCC	D.A. ISSUE	BV	BP				DATE CREATED	ORIGINAL SCALE	SHEET				
	C	18.05.22	MG	D.A. ISSUE	BV	BP				23.06.21	1:50	A1				
DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.													DRAWING NO		REV	
20399-DA-B12													C			

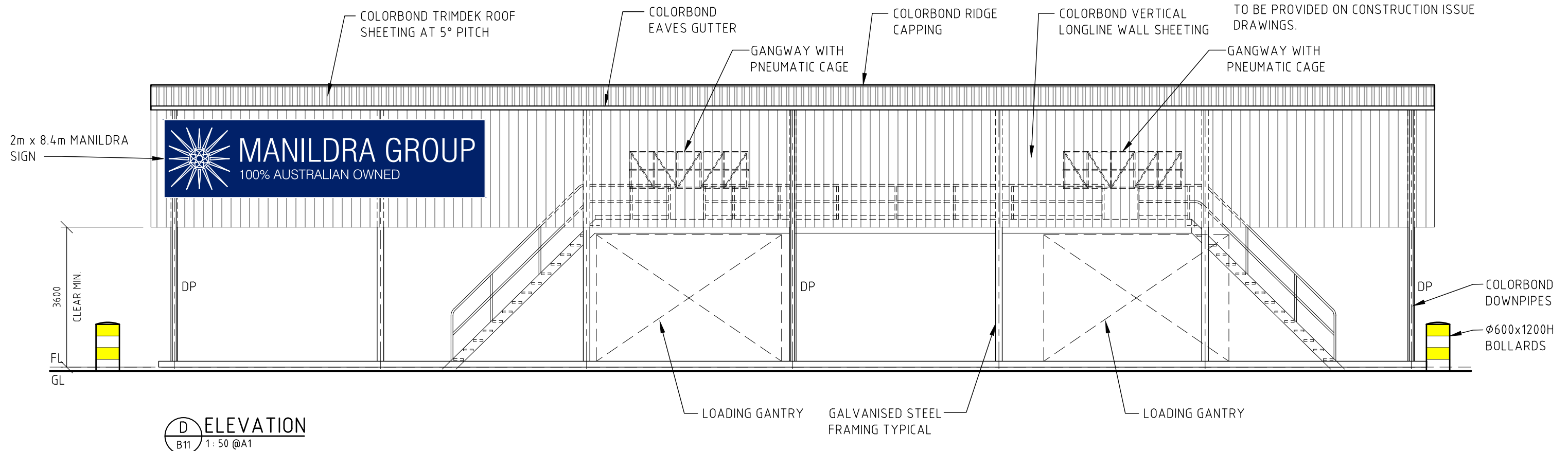


COLOURS	
ROOF	COLORBOND ULTRA SURFMIST
ROOF RIDGE CAPPING	COLORBOND ULTRA MONUMENT
EAVES	COLORBOND ULTRA MONUMENT
GUTTERS	COLORBOND ULTRA MONUMENT
WALLS	COLORBOND ULTRA MONUMENT
DOWNPipes	COLORBOND ULTRA MONUMENT

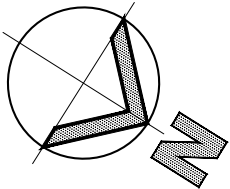
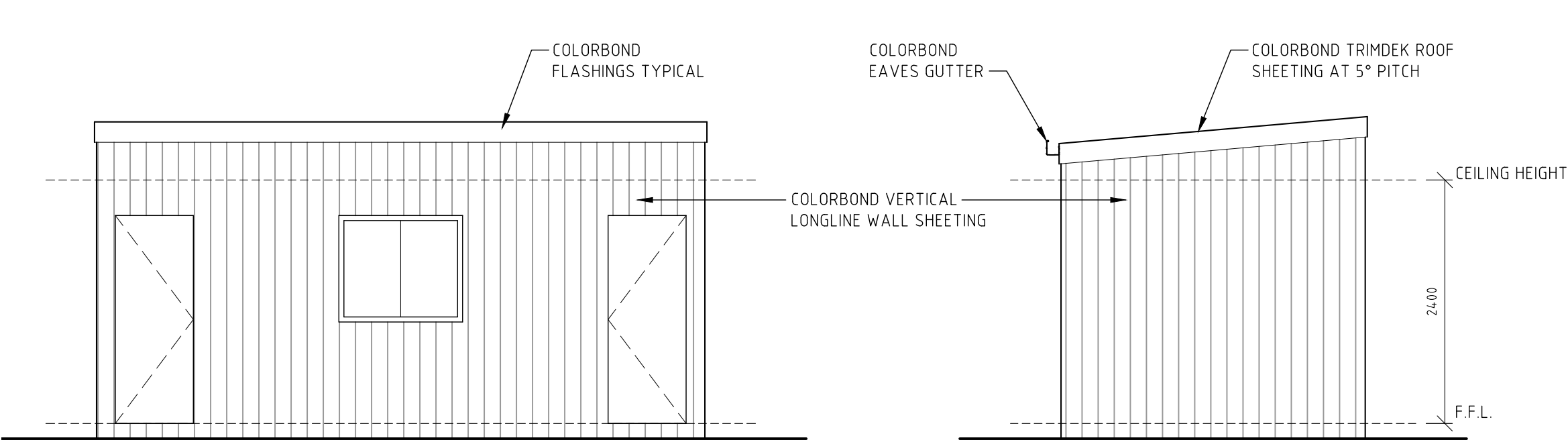
NOTE:
PIPE PENETRATIONS TO OCCUR THROUGH WALL SHEETING POSITIONS YET TO BE DETERMINED

LEGEND
DP DOWNPIPE

- NOTES:**
1. NOT FOR TENDER OR CONSTRUCTION. EXTERIOR FINISHES & COLOURS ARE INDICATIVE ONLY AND TO BE CONFIRMED AT DETAIL DESIGN STAGE
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 4. COVERING ROOF TO BE PROVIDED OVER FULL EXTENT OF GANTRY BUILDING AREA. STORMWATER DETAILS TO BE PROVIDED ON CONSTRUCTION ISSUE DRAWINGS.



PROJECT MANAGERS PLANNERS DESIGNERS ENGINEERS										REV	DATE	BY	DESCRIPTION	CHK	APP	PROJECT CLIENT	PROJECT DETAILS	DRAWING TITLE	STATUS	
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	B	29.07.21	LCC	D.A. ISSUE	BV	BP														
	C	11.10.21	LCC	MEZZANINE LEVEL ADDED	BV	BP														
	D	18.05.22	MG	D.A. ISSUE	BV	BP														
	E	23.05.22	MG	D.A. ISSUE	BV	BP														
														DATE CREATED 23.06.21		ORIGINAL SCALE 1:50	SHEET A1			
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																DRAWING NO 20399-DA-B13		REV E		



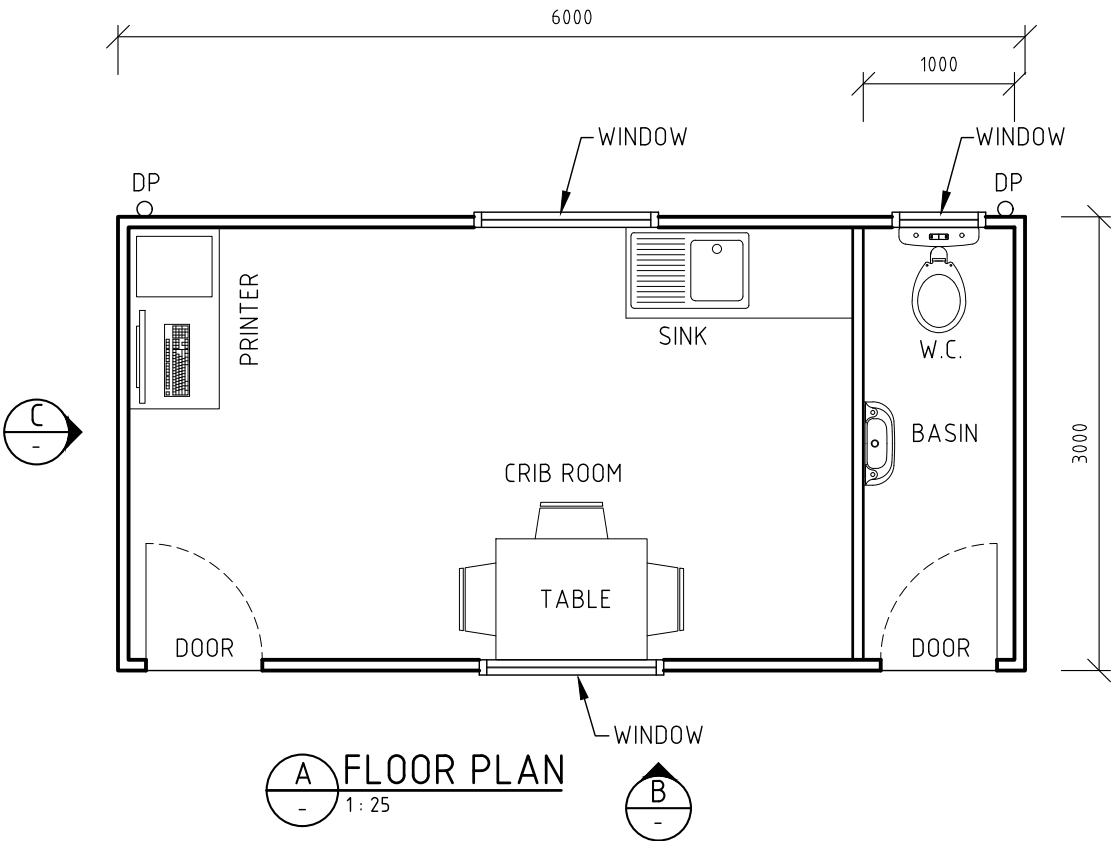
LEGEND
DP DOWNPIPE

- NOTES:
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 2. STRUCTURAL AND ARCHITECTURAL DETAILS TO BE PROVIDED ON CONSTRUCTION ISSUE DRAWINGS.

B ELEVATION
1 : 25

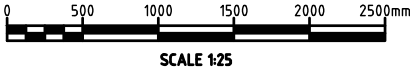
C ELEVATION
1 : 25

COLOURS	
ROOF	COLORBOND ULTRA SURFMIST
ROOF RIDGE CAPPING	COLORBOND ULTRA MONUMENT
EAVES	COLORBOND ULTRA MONUMENT
GUTTERS	COLORBOND ULTRA MONUMENT
WALLS	COLORBOND ULTRA MONUMENT
DOWNPIPES	COLORBOND ULTRA MONUMENT
STANDARD EXTERIOR DOOR	MATCH COLORBOND ULTRA MONUMENT

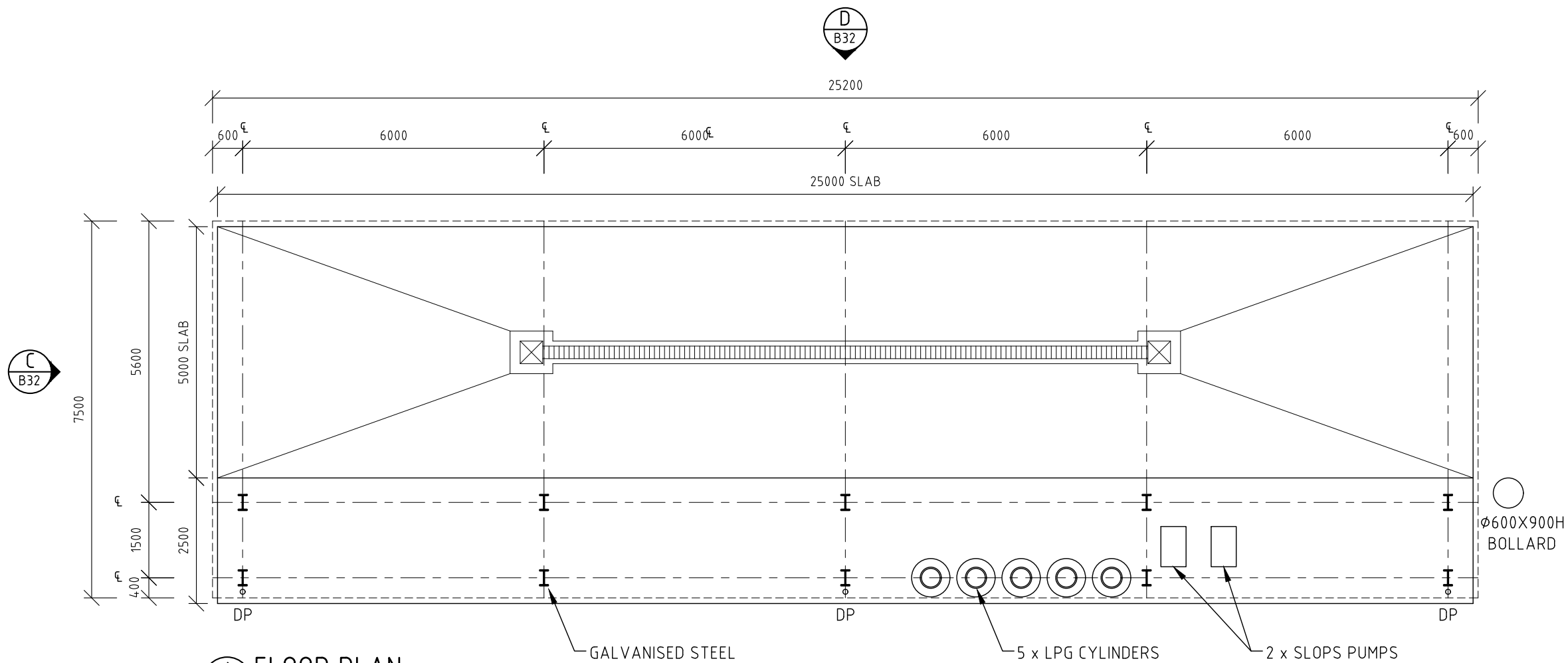


A FLOOR PLAN
1 : 25

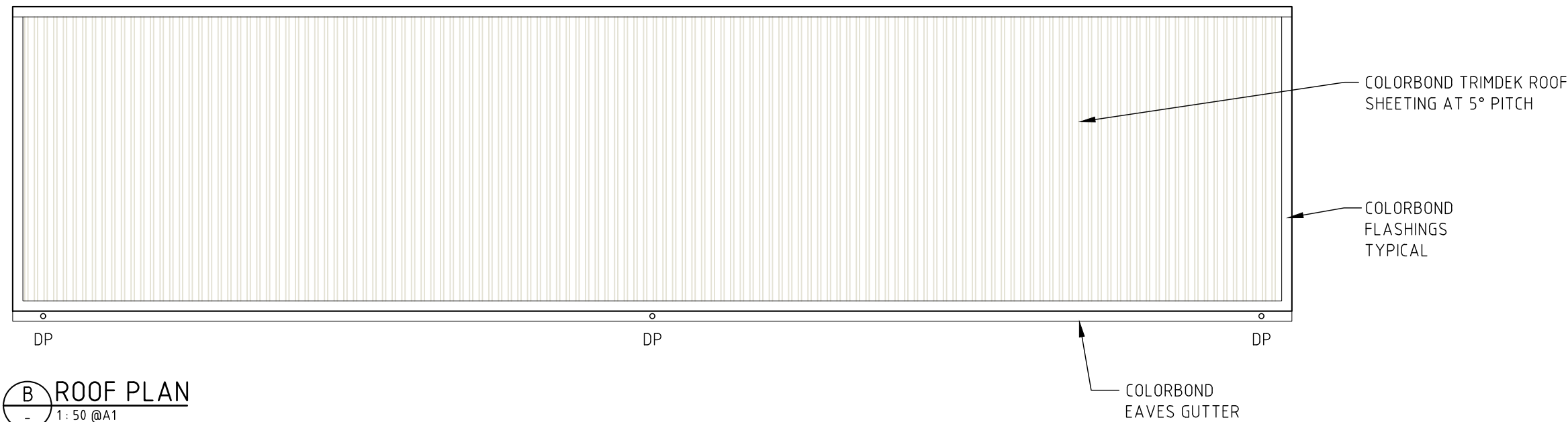
B



PROJECT MANAGERS PLANNERS DESIGNERS ENGINEERS				REV	DATE	BY	DESCRIPTION	CHK	APP	PROJECT CLIENT	PROJECT DETAILS	DRAWING TITLE	STATUS		
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	B	18.05.22	MG	D.A. ISSUE	BV	BP					DATE CREATED 17.08.21	ORIGINAL SCALE 1:25	SHEET A1		
	C	23.05.22	MG	BUILDING DIMENSIONS MODIFIED TO STANDARD CONTAINER							DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.				
												DRAWING NO	REV		
												20399-DA-B21		C	



A FLOOR PLAN
1: 50 @A1



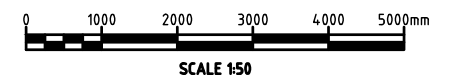
B ROOF PLAN
1: 50 @A1

LEGEND:
DP DOWNPIPE

NOTES:

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COLOURS	
ROOF	COLORBOND ULTRA SURFMIST
ROOF RIDGE CAPPING	COLORBOND ULTRA MONUMENT
EAVES	COLORBOND ULTRA MONUMENT
GUTTERS	COLORBOND ULTRA MONUMENT
DOWNPIPES	COLORBOND ULTRA MONUMENT



PROJECT MANAGERS PLANNERS DESIGNERS ENGINEERS				REV	DATE	BY	DESCRIPTION	CHK	APP	PROJECT CLIENT	PROJECT DETAILS	DRAWING TITLE	STATUS	
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	B	29.07.21	LCC	D.A. ISSUE	BV	BP						DATE CREATED	ORIGINAL SCALE	SHEET
	C	14.10.21	LCC	RE-ISSUE FOR D.A.	BV	BP						25.06.21	1:50	A1
	D	18.05.22	MG	D.A. ISSUE	BV	BP						DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.		
	E	23.05.22	MG	D.A. ISSUE	BV	BP						DRAWING NO	REV	
												20399-DA-B31	E	

COLORBOND TRIMDEK ROOF SHEETING AT 5° PITCH

COLORBOND EAVES GUTTER

ROOF PITCH 5°

GANGWAY WITH PNEUMATIC CAGE

GALVANISED STEEL FRAMING TYPICAL

GANGWAY FLOOR

6200
U/S KNEE BRACE

3800

FL
GL

C ELEVATION
B31 1: 50 @A1

GANGWAY WITH PNEUMATIC CAGE

COLORBOND RIDGE CAPPING

GANGWAY WITH PNEUMATIC CAGE

COLORBOND FLASHING TYPICAL

GALVANISED STEEL FRAMING TYPICAL

FL
GL

D ELEVATION
B31 1: 50 @A1

LEGEND:

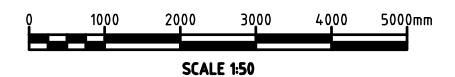
DP DOWNPIPE

NOTES:

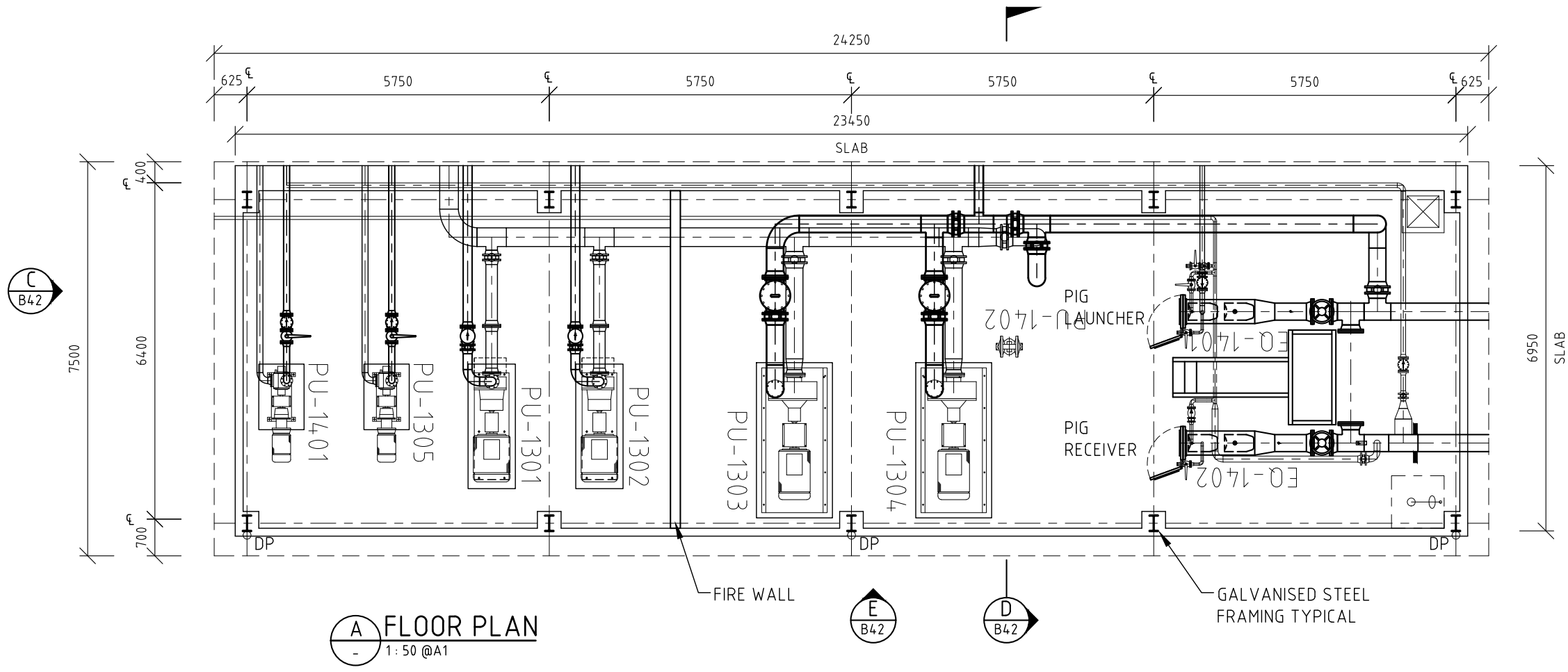
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COLOURS

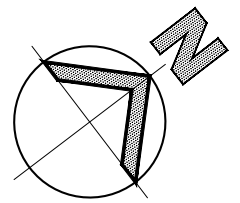
ROOF	COLORBOND ULTRA SURFMIST
ROOF RIDGE CAPPING	COLORBOND ULTRA MONUMENT
EAVES	COLORBOND ULTRA MONUMENT
GUTTERS	COLORBOND ULTRA MONUMENT
DOWNPIPES	COLORBOND ULTRA MONUMENT



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	B	29.07.21	LCC	D.A. ISSUE	BV	BP				DATE CREATED	ORIGINAL SCALE	SHEET									
	C	11.10.21	LCC	MEZZANINE LEVEL ADDED	BV	BP				25.06.21	1:50	A1									
	D	18.05.22	MG	D.A. ISSUE	BV	BP				DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.											
	E	23.05.22	MG	D.A. ISSUE	BV	BP				DRAWING NO	REV										
														20399-DA-B32				E			

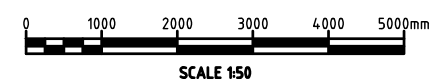
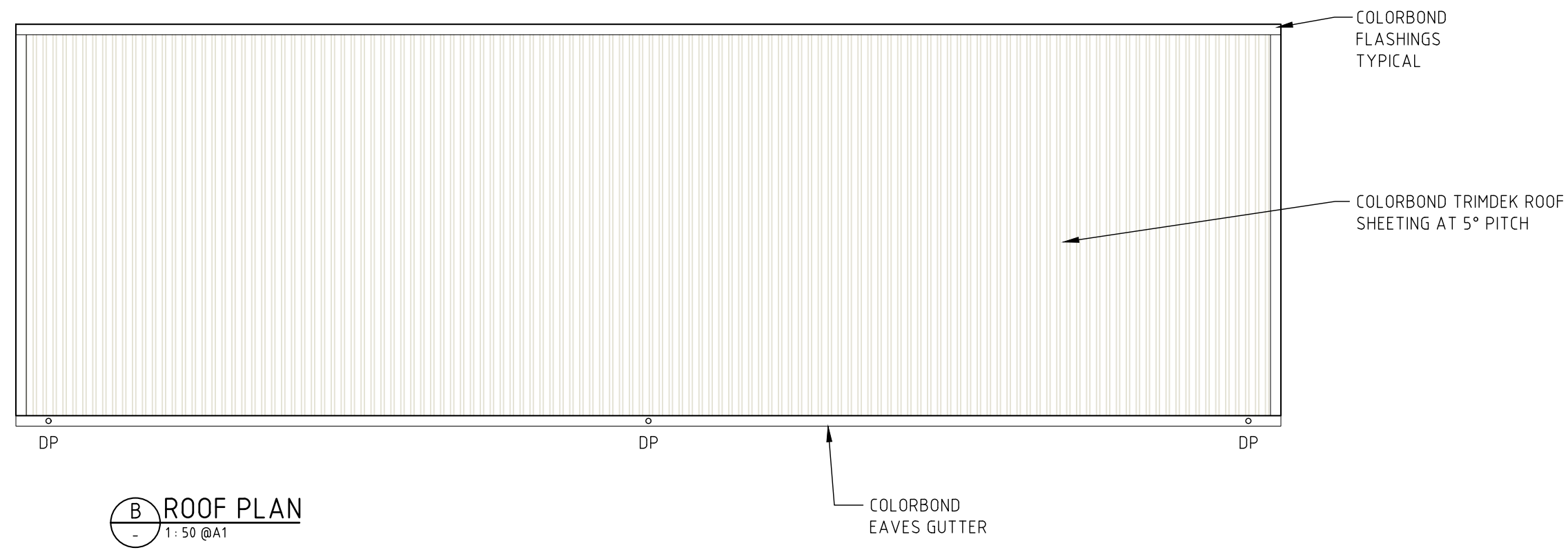


LEGEND:
DP DOWNPIPE

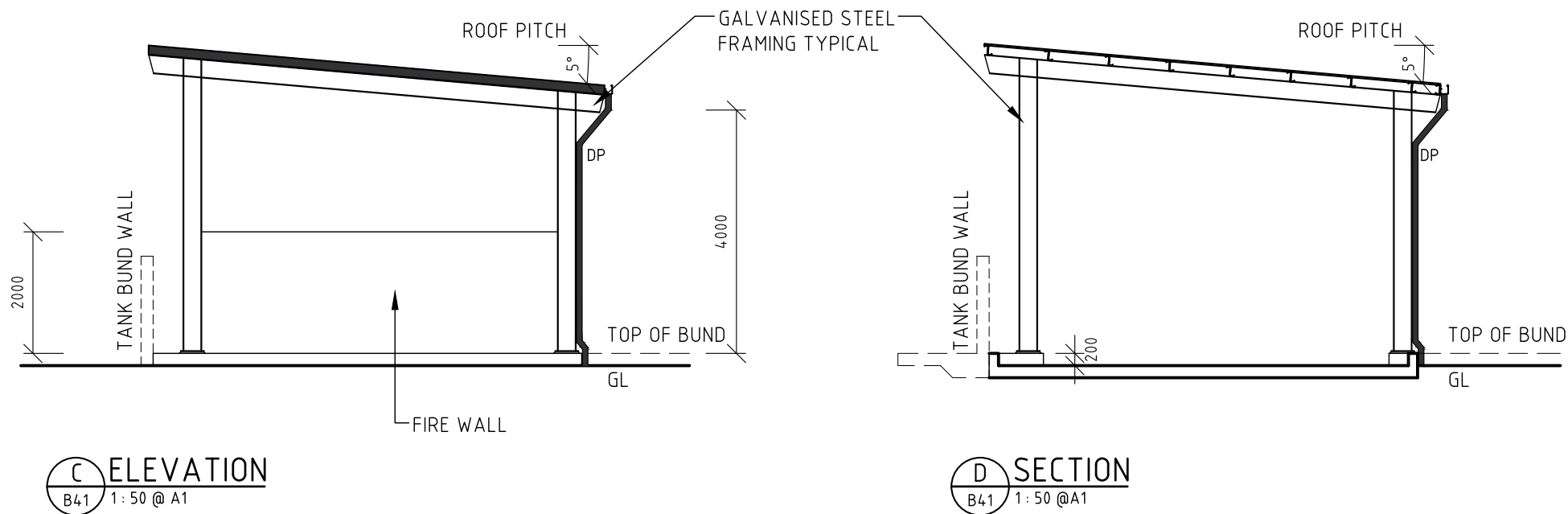


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COLOURS	
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ROOF RIDGE CAPPING	COLORBOND ULTRA MONUMENT
EAVES	COLORBOND ULTRA MONUMENT
GUTTERS	COLORBOND ULTRA MONUMENT
DOWNPIPES	COLORBOND ULTRA MONUMENT



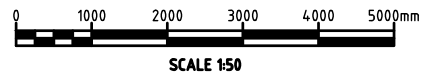
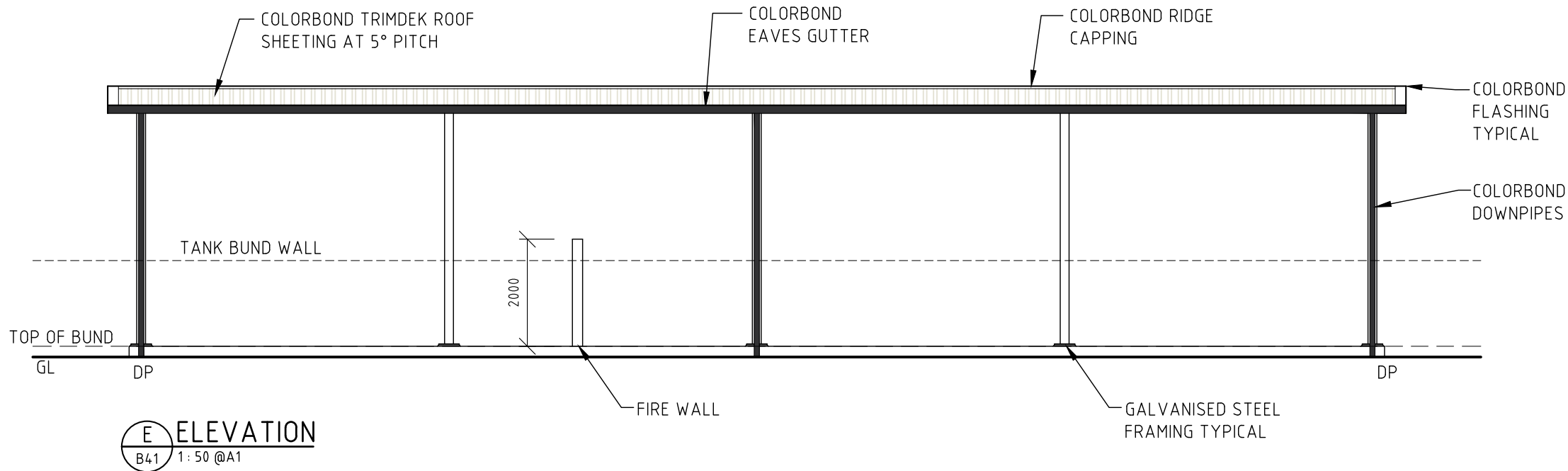
PROJECT MANAGERS PLANNERS DESIGNERS ENGINEERS				REV	DATE	BY	DESCRIPTION	CHK	APP	PROJECT CLIENT	PROJECT DETAILS	DRAWING TITLE	STATUS				
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				B	26.07.21	LCC	PRELIMINARY ISSUE	BV	BP								
				C	29.07.21	LCC	D.A. ISSUE	BV	BP								
				D	18.05.22	MG	D.A. ISSUE	BV	BP								
				E	23.05.22	MG	D.A. ISSUE	BV	BP								
												DRAWING NO		REV			
												20399-DA-B41		E			



LEGEND:
DP DOWNPIPE

- NOTES:
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 4. COVERING ROOF TO BE PROVIDED OVER FULL EXTENT OF PUMP & PIG STATION AREA. STORMWATER DETAILS TO BE PROVIDED ON CONSTRUCTION ISSUE DRAWINGS.

COLOURS	
ROOF	COLORBOND ULTRA SURFMIST
ROOF RIDGE CAPPING	COLORBOND ULTRA MONUMENT
EAVES	COLORBOND ULTRA MONUMENT
GUTTERS	COLORBOND ULTRA MONUMENT
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PROJECT MANAGERS PLANNERS DESIGNERS ENGINEERS				REV	DATE	BY	DESCRIPTION	CHK	APP	PROJECT CLIENT	PROJECT DETAILS	DRAWING TITLE	STATUS		
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				B	26.07.21	LCC	PRELIMINARY ISSUE	BV	BP				DATE CREATED	ORIGINAL SCALE	SHEET
				C	29.07.21	LCC	D.A. ISSUE	BV	BP				01.07.21	1:50	A1
				D	18.05.22	MG	D.A. ISSUE	BV	BP				DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.		
				E	23.05.22	MG	D.A. ISSUE	BV	BP				DRAWING NO	REV	
												20399-DA-B42		E	

CHAIN WIRE FENCE
HIGH SECURITY FENCING
BUND WALL
PROPERTY BOUNDARY

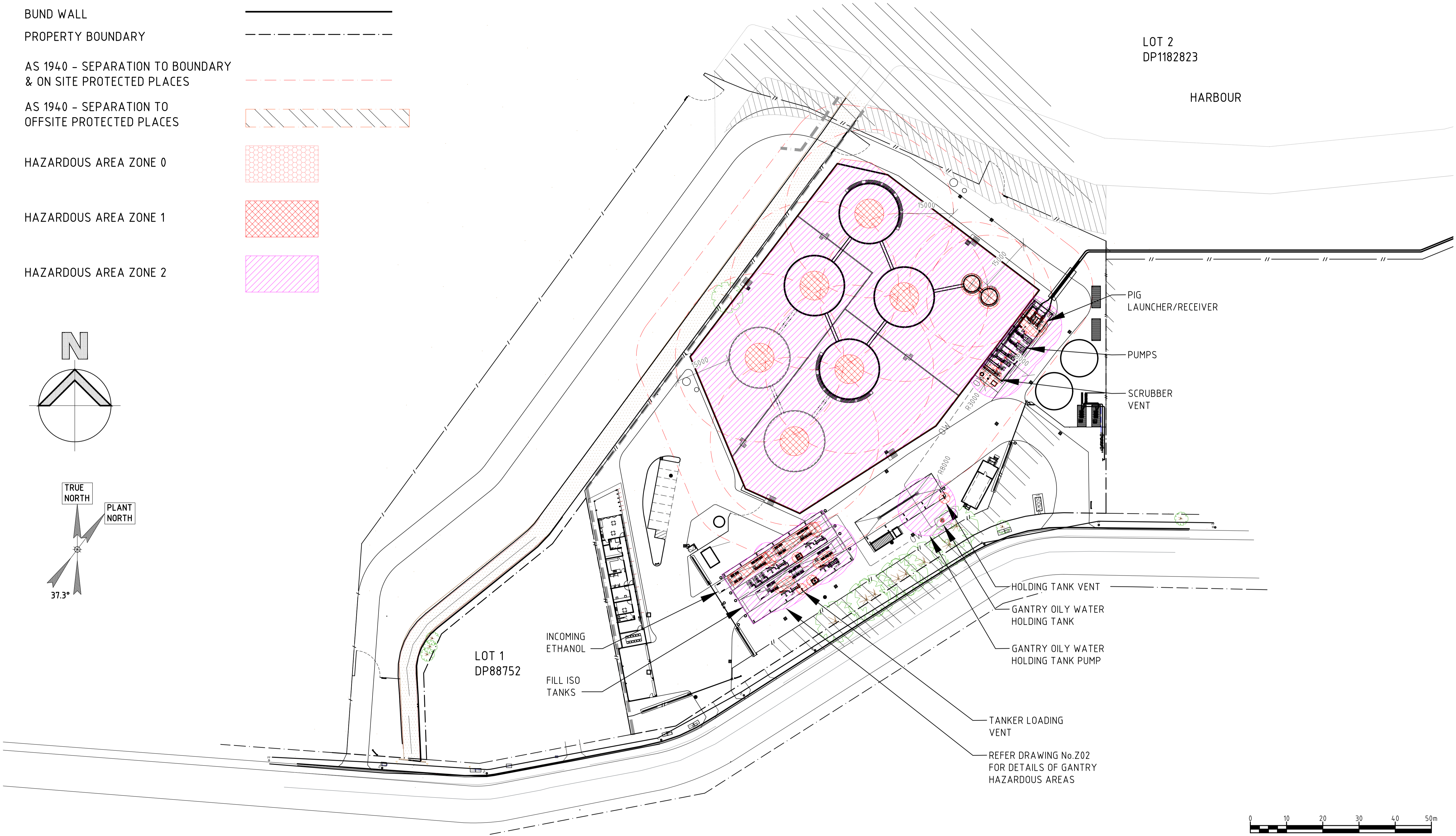
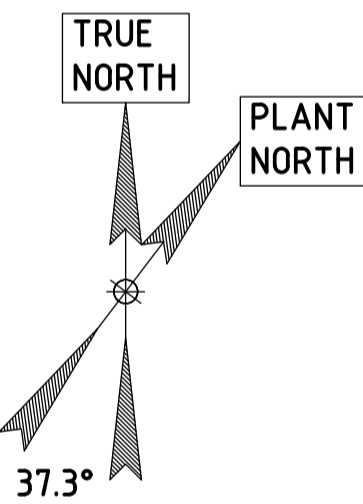
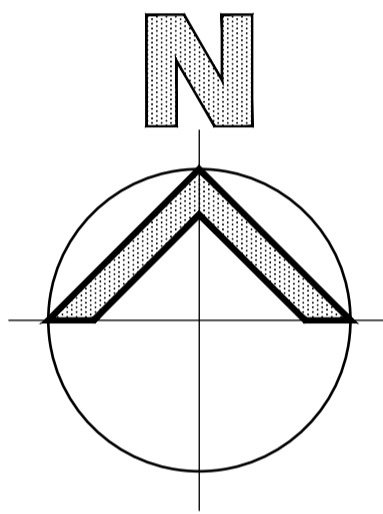
AS 1940 - SEPARATION TO BOUNDARY
& ON SITE PROTECTED PLACES

AS 1940 - SEPARATION TO
OFFSITE PROTECTED PLACES

HAZARDOUS AREA ZONE 0

HAZARDOUS AREA ZONE 1

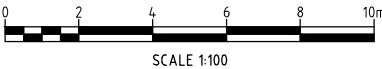
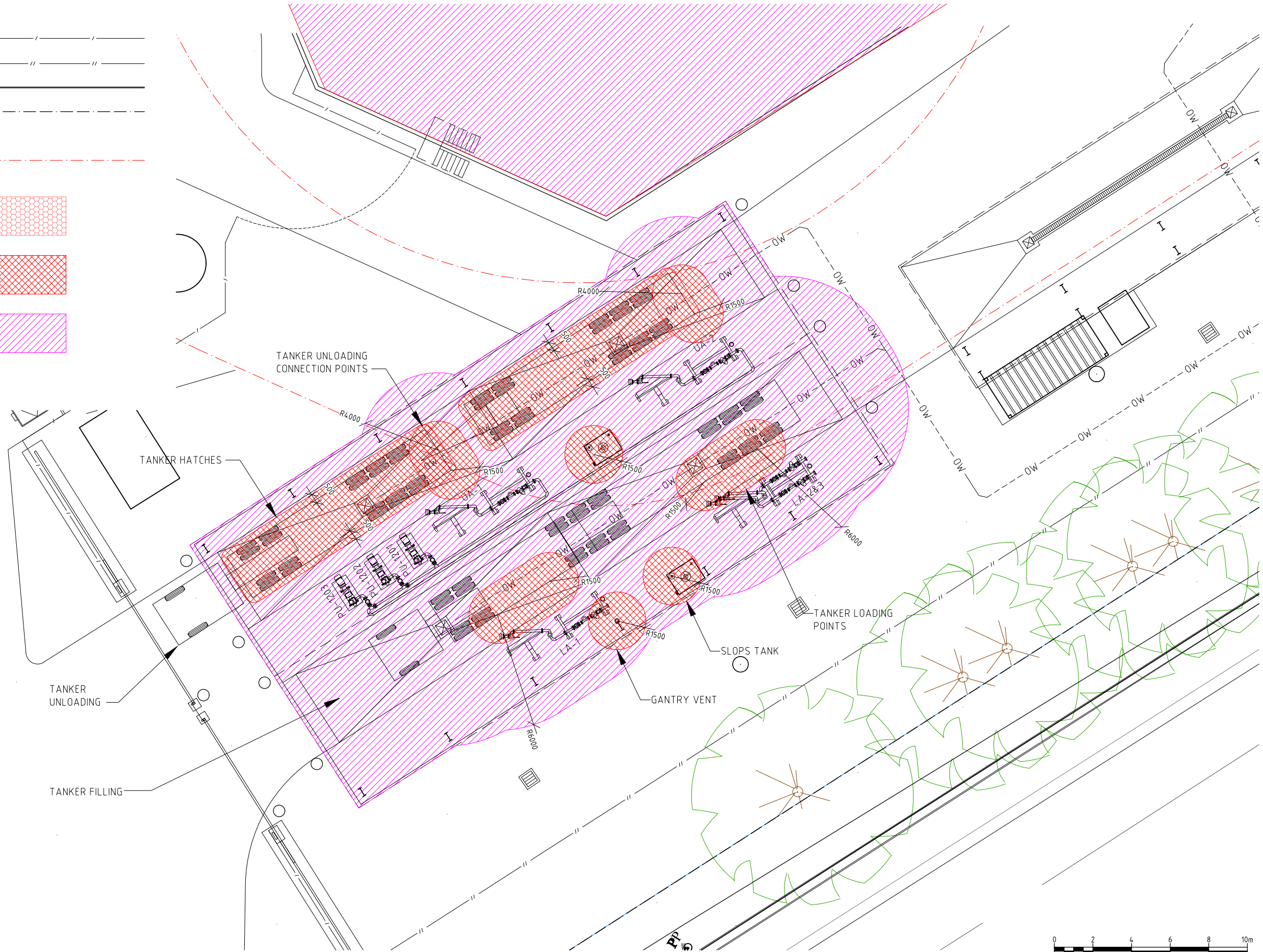
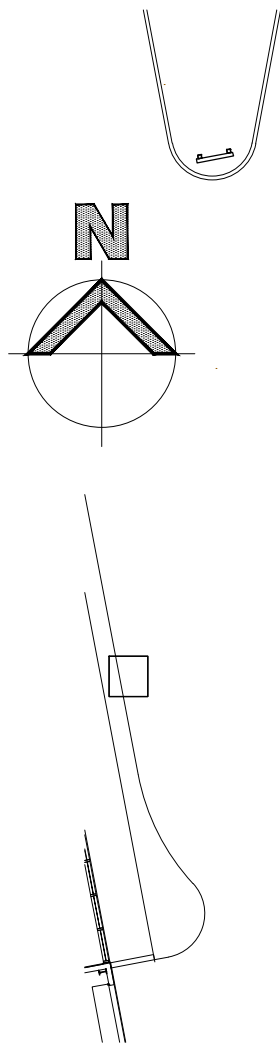
HAZARDOUS AREA ZONE 2



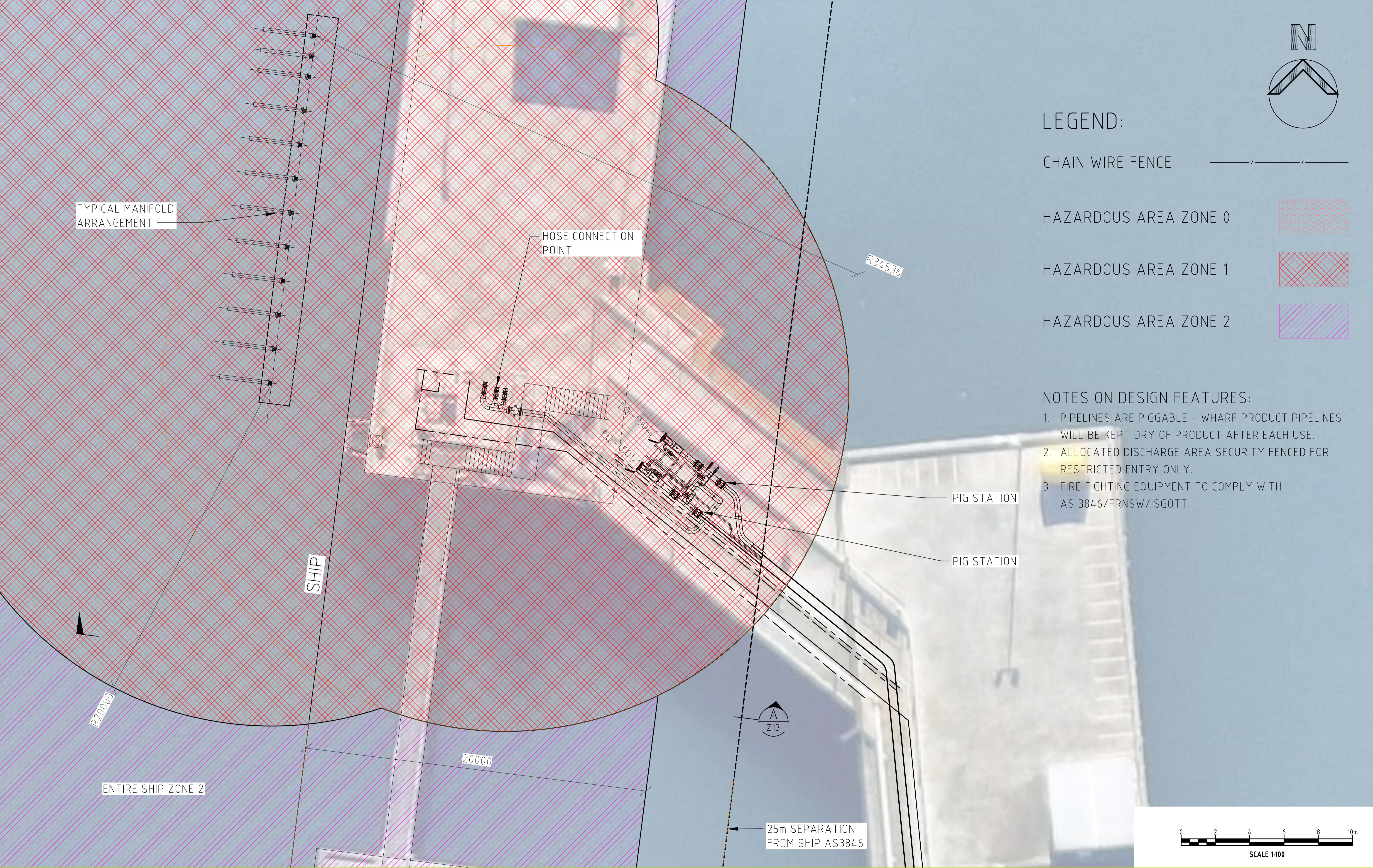
PROJECT MANAGERS PLANNERS DESIGNERS ENGINEERS				REV	DATE	BY	DESCRIPTION	CHK	APP	PROJECT CLIENT	PROJECT DETAILS	DRAWING TITLE	STATUS						
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	B	29.07.21	LCC	D.A. ISSUE								DATE CREATED	ORIGINAL SCALE	SHEET					
	DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.																		
	DRAWING NO												REV						
	20399-DA-Z01												B						

CHAIN WIRE FENCE
HIGH SECURITY FENCING
BUND WALL
PROPERTY BOUNDARY
AS 1940 - SEPARATION TO BOUNDARY
& ON SITE PROTECTED PLACES

HAZARDOUS AREA ZONE 0
HAZARDOUS AREA ZONE 1
HAZARDOUS AREA ZONE 2



PROJECT MANAGERS PLANNERS DESIGNERS ENGINEERS				REV	DATE	BY	DESCRIPTION	CHK	APP	PROJECT CLIENT	PROJECT DETAILS	DRAWING TITLE	STATUS	
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	B	29.07.21	LCC	D.A. ISSUE	BV	BP						DATE CREATED	ORIGINAL SCALE	SHEET
	C	14.10.21	LCC	RE-ISSUE FOR D.A.	BV	BP						29.06.21	1:100	A1
	DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.													DRAWING NO
													20399-DA-Z02	C



LEGEND:

- CHAIN WIRE FENCE
- HAZARDOUS AREA ZONE 0
- HAZARDOUS AREA ZONE 1
- HAZARDOUS AREA ZONE 2

NOTES ON DESIGN FEATURES:

- PIPELINES ARE PIGGABLE - WHARF PRODUCT PIPELINES WILL BE KEPT DRY OF PRODUCT AFTER EACH USE.
- ALLOCATED DISCHARGE AREA SECURITY FENCED FOR RESTRICTED ENTRY ONLY.
- FIRE FIGHTING EQUIPMENT TO COMPLY WITH AS 3846/FRNSW/ISGOTT.

PROJECT MANAGERS PLANNERS DESIGNERS ENGINEERS				REV	DATE	BY	DESCRIPTION	CHK	APP	PROJECT CLIENT	PROJECT DETAILS	DRAWING TITLE	STATUS		
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				B	29.07.21	LCC	D.A. ISSUE	BV	BB				DATE CREATED	ORIGINAL SCALE	SHEET
													29.06.21	1:100	A1
				DO NOT SCALE THIS DRAWING. CONFIRM ALL DIMENSIONS ON SITE.											
												DRAWING NO		REV	
												20399-DA-Z03		B	