

EXISTING APPROVED PLANT.
MOD 21.
APPROVED PLANT YET
TO BE CONSTRUCTED.

PACKER
ADDITIONS
MN7323-002.

PROPOSED
BUFFER TANK
SEE DRAWING
MN6851-001.

MANILDRA
COMPLEX.

SHOALHAVEN
RIVER

PAPER MILL
SITE.

BOLONG ROAD

HANIGANS
LANE

POND 6

BVF

app. irrigation.

185M
SETBACK.

385M TO
BOUNDARY.

REV	ZONE	DETAILS	DRN	DATE	CHKD	APPD
P09	All	Was MOD 21.	P.C.	05-5-21	BH	
P08	All	Noise wall at packer amended.	P.C.	26-4-21	GH	
P07	All	Fermenters & car park ratio added.	P.C.	12-4-21	BH	
P06	All	Now MOD 22.	P.C.	18-3-21	JS	
P05	All	MOD 21 wording, setbacks & packing plant additions added.	P.C.	10-2-21	JS	
P04	CNO	BVF was pond 7.	P.C.	08-2-21	JS	
P03	A.L.L.	Rail extension & other additions removed.	P.C.	08-12-20	BH	

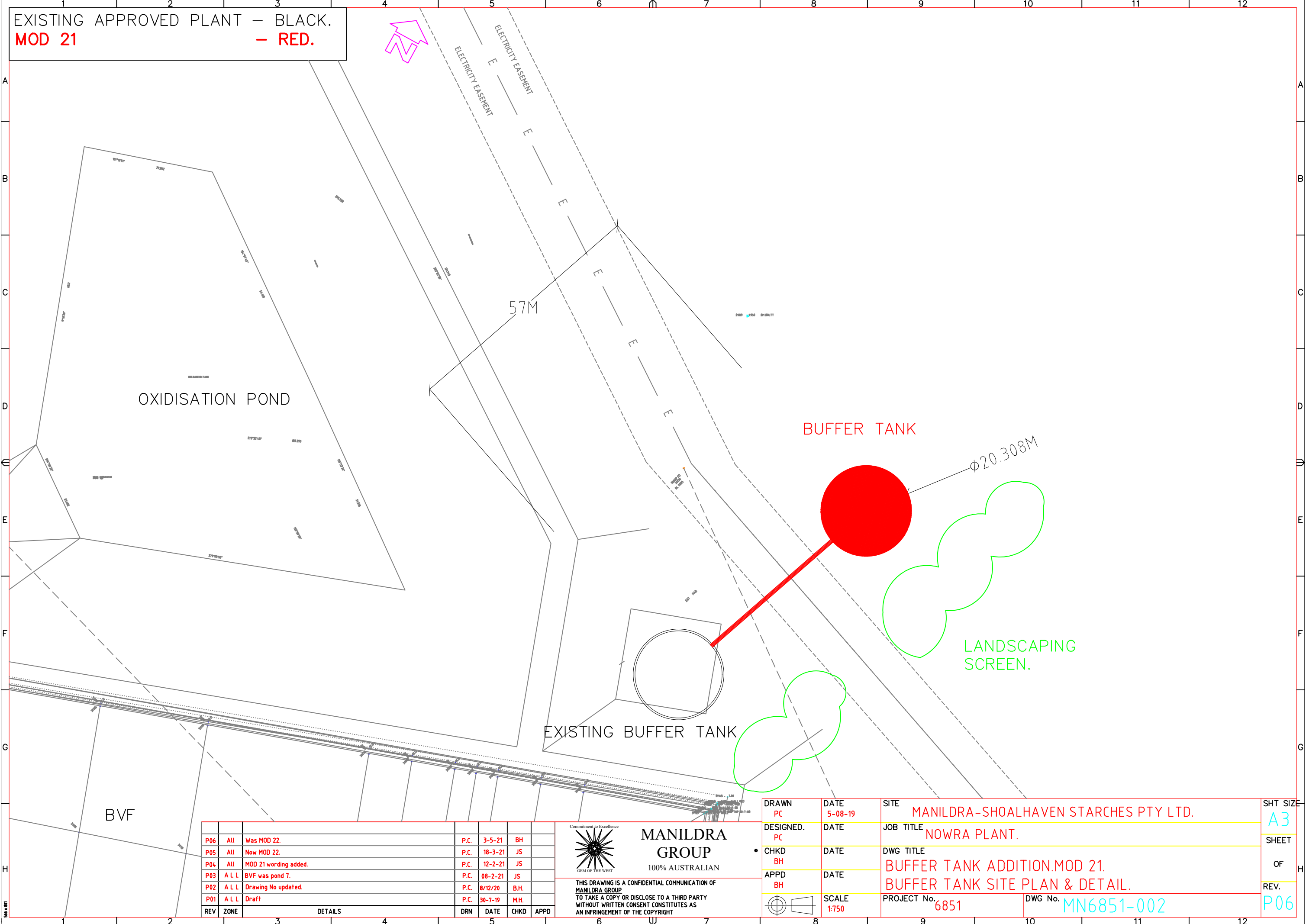


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DRAWN PC	DATE 5-08-19	SITE MANILDRA-SHOALHAVEN STARCHES PTY LTD.	SHT SIZE A3
DESIGNED. PC	DATE	JOB TITLE NOWRA PLANT.	SHEET OF
CHKD BH	DATE	DWG TITLE BUFFER TANK ADDITION.MOD 21.	REV. P09
APPD BH	DATE	PROJECT No. 6851	DWG No. MN6851-001
SCALE 1:7500			

EXISTING APPROVED PLANT — BLACK.
MOD 21 — RED.



P06	All	Was MOD 22.	P.C.	3-5-21	BH	
P05	All	Now MOD 22.	P.C.	18-3-21	JS	
P04	All	MOD 21 wording added.	P.C.	12-2-21	JS	
P03	A L L	BVF was pond 7.	P.C.	08-2-21	JS	
P02	A L L	Drawing No updated.	P.C.	8/12/20	B.H.	
P01	A L L	Draft	P.C.	30-7-19	M.H.	
REV	ZONE	DETAILS	DRN	DATE	CHKD	APPD



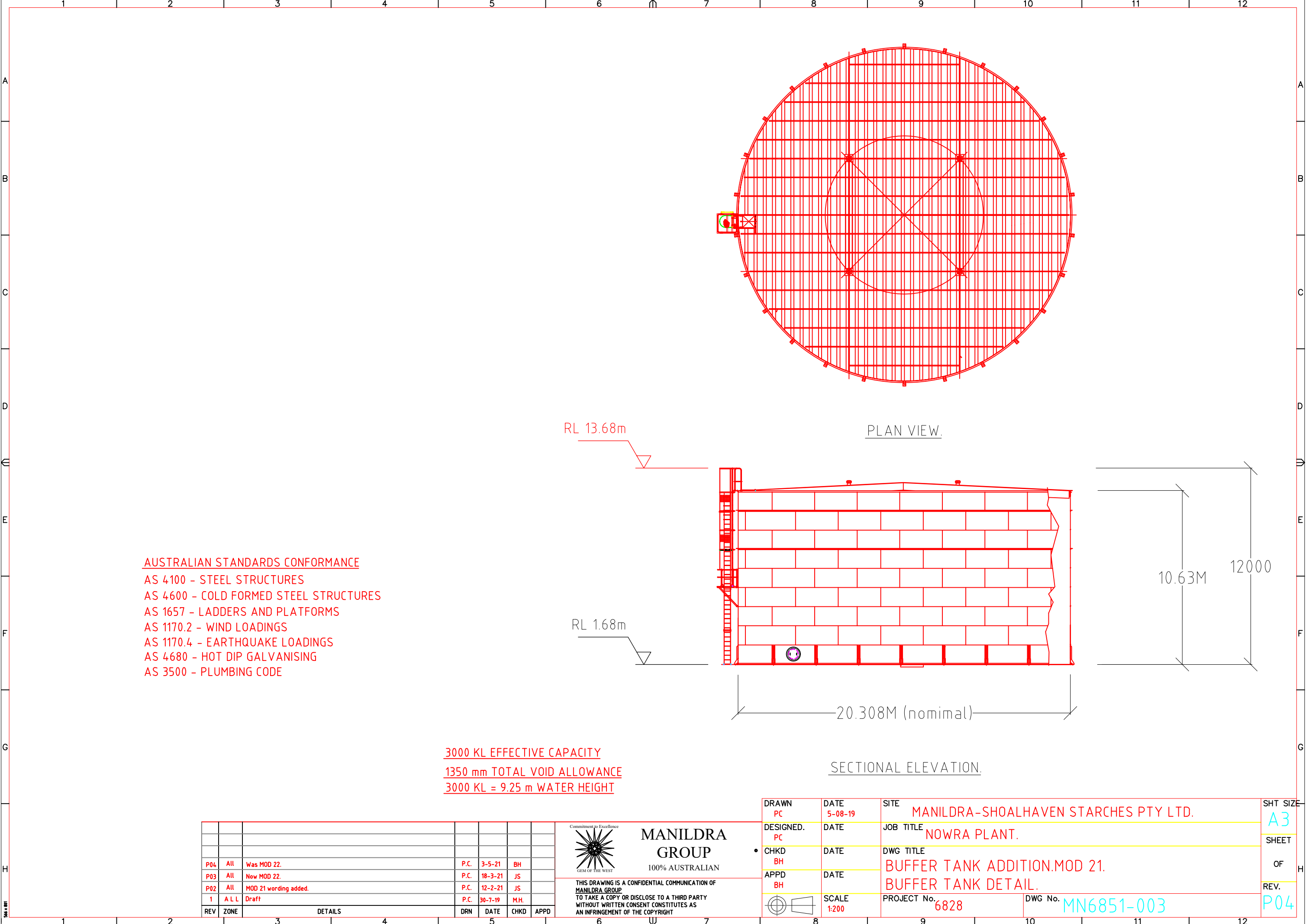
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DRAWN	PC	DATE	5-08-19
DESIGNED.	PC	DATE	
CHKD	BH	DATE	
APPD	BH	DATE	
SCALE	1:750		

DATE 5-08-19	SITE MANILDRA-SHOALHAVEN STARCHES PTY LTD.		
DATE	JOB TITLE NOWRA PLANT.		
DATE	DWG TITLE BUFFER TANK ADDITION.MOD 21.		
DATE	BUFFER TANK SITE PLAN & DETAIL.		
SCALE 1:750	PROJECT No. 6851	DWG No.	MN6851-002

SHT SIZE	A3
SHEET	OF
REV.	P06



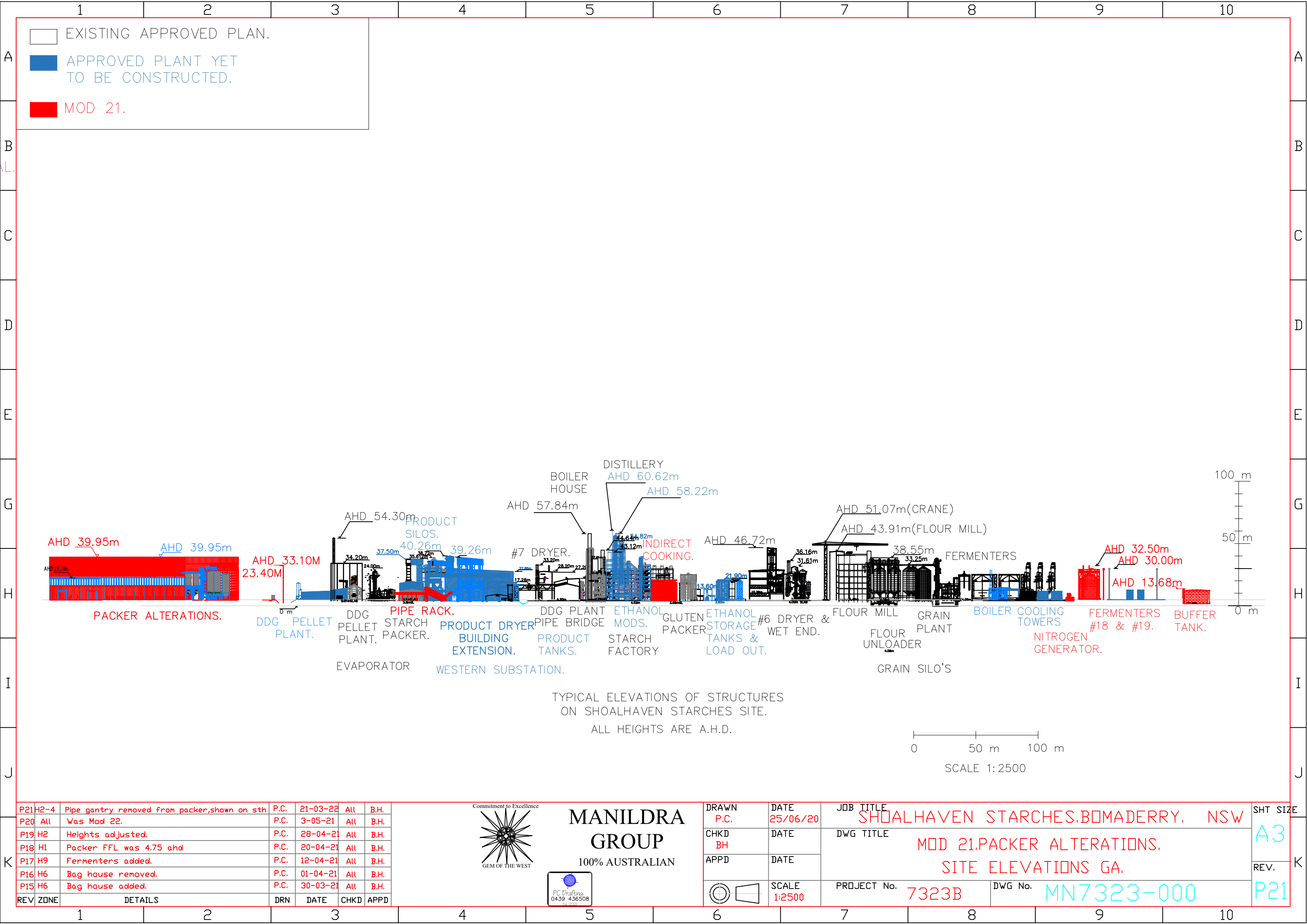
REV	ZONE	DETAILS	DRN	DATE	CHKD	APPD
P04	All	Was MOD 22.	P.C.	3-5-21	BH	
P03	All	Now MOD 22.	P.C.	18-3-21	JS	
P02	All	MOD 21 wording added.	P.C.	12-2-21	JS	
1	A L L	Draft	P.C.	30-7-19	M.H.	



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DRAWN PC	DATE 5-08-19	SITE MANILDRA-SHOALHAVEN STARCHES PTY LTD.	SHT SIZE A3
DESIGNED. PC	DATE	JOB TITLE NOWRA PLANT.	SHEET
CHKD BH	DATE	DWG TITLE BUFFER TANK ADDITION.MOD 21.	OF
APPD BH	DATE	BUFFER TANK DETAIL.	REV.
SCALE 1:200	PROJECT No. 6828	DWG No. MN6851-003	P04



P21	H2-4	Pipe gantry removed from packer,shown on sth	P.C.	21-03-22	ALL	B.H.
P20	ALL	Was Mod 22.	P.C.	3-05-21	ALL	B.H.
P19	H2	Heights adjusted.	P.C.	28-04-21	ALL	B.H.
P18	H1	Packer FFL was 4.75 ahd	P.C.	20-04-21	ALL	B.H.
P17	H9	Fermenters added.	P.C.	12-04-21	ALL	B.H.
P16	H6	Bag house removed.	P.C.	01-04-21	ALL	B.H.
P15	H6	Bag house added.	P.C.	30-03-21	ALL	B.H.
REV	ZONE	DETAILS	DRN	DATE	CHKD	APPD

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GEM OF THE WEST

MANILDRA GROUP

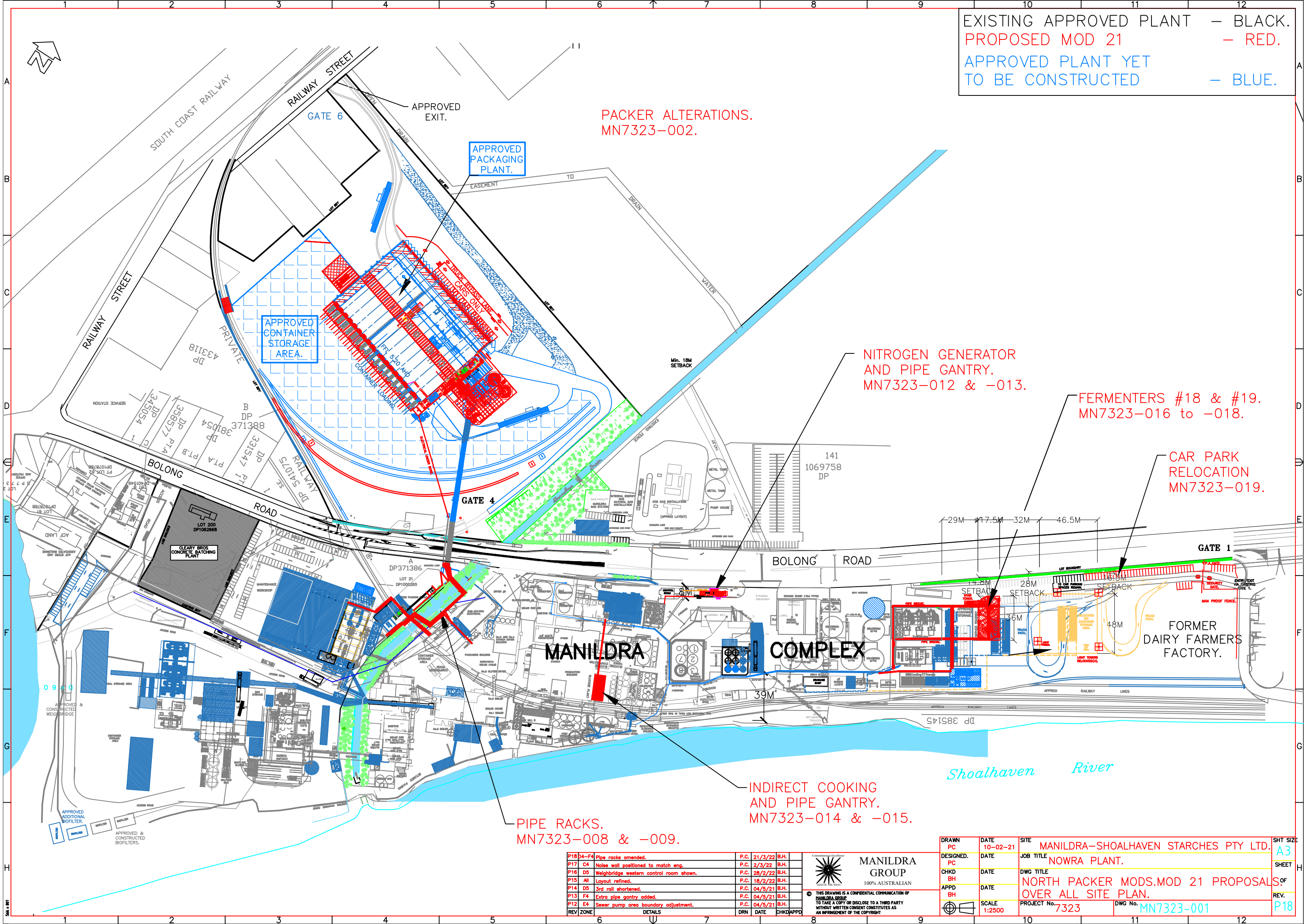
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PC Drafting
0439 436508
Est. 2002

DRAWN	DATE	JOB TITLE
P.C.	25/06/20	SHOALHAVEN STARCHES.BOMADERRY. NSW
CHKD	DATE	DWG TITLE
BH		MOD 21.PACKER ALTERATIONS.
APPD	DATE	SITE ELEVATIONS GA.
	SCALE	PROJECT No.
	1:2500	7323B
		DWG No.
		MN7323-000

SHT SIZE
A3
REV.
P21



EXISTING APPROVED PLANT — BLACK.
PROPOSED MOD 21 — RED.
APPROVED PLANT YET TO BE CONSTRUCTED — BLUE.

PACKER ALTERATIONS.
MN7323-002.

NITROGEN GENERATOR
AND PIPE GANTRY.
MN7323-012 & -013.

FERMENTERS #18 & #19.
MN7323-016 to -018.

CAR PARK
RELOCATION
MN7323-019.

INDIRECT COOKING
AND PIPE GANTRY.
MN7323-014 & -015.

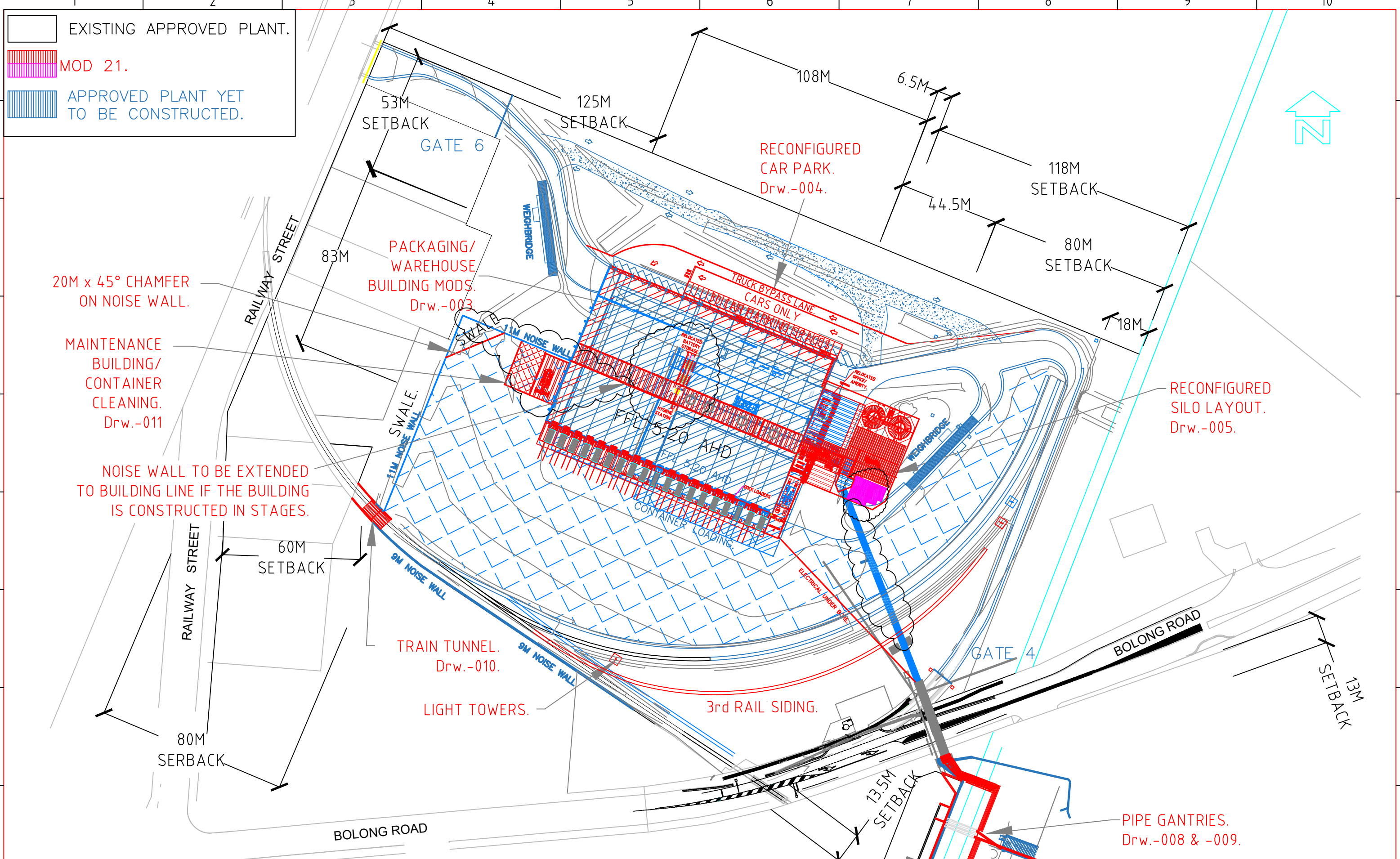
PIPE RACKS.
MN7323-008 & -009.

P18	D4-F4	Pipe racks amended.	P.C.	21/3/22	B.H.
P17	C4	Noise wall positioned to match eng.	P.C.	2/3/22	B.H.
P16	D5	Weightbridge western control room shown.	P.C.	28/2/22	B.H.
P15	A11	Layout refined.	P.C.	18/2/22	B.H.
P14	D5	3rd rail shortened.	P.C.	04/5/21	B.H.
P13	F4	Extra pipe gantry added.	P.C.	04/5/21	B.H.
P12	E4	Sewer pump area boundary adjustment.	P.C.	04/5/21	B.H.
REV	ZONE	DETAILS	DRN	DATE	CHKD/APPD

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DRAWN	PC	DATE	10-02-21	SITE	MANILDRA-SHOALHAVEN STARCHES PTY LTD.	SHT SIZE	A3
DESIGNED	PC	DATE		JOB TITLE	NOWRA PLANT.	SHEET	H
CHKD	BH	DATE		DWG TITLE	NORTH PACKER MODS.MOD 21 PROPOSALS.	REV.	P18
APPD	BH	DATE		PROJECT No.	7323	DWG No.	MN7323-001
SCALE	1:2500						



P24	D5	Noise wall noting added.	P.C.	25/3/22	D.W.		Commitment to Excellence  GEM OF THE WEST MANILDRA GROUP 100% AUSTRALIAN  PC Drafting. 0439 436508 18-000	P.C.		SHOALHAVEN STARCHES.		SHT SIZE
P23	D4	Maintenance building moved 1m south.	P.C.	23/3/22	D.W.			CHKD	DATE	DWG TITLE	A3	
P22	ALL	Layout refined.	P.C.	15/3/22	D.W.			GM	10/02/21	NORTH PACKER MOD 21. SITE PLAN .		
P21	ALL	Noise wall positioned to match eng.Plant/comp. room relo.	P.C.	2/3/22	D.W.			APPD	DATE			REV.
P20	ALL	Layout refined.	P.C.	28/2/22	D.W.				SCALE	PROJECT No.	DWG No.	P24
P19	ALL	Layout refined.	P.C.	18/2/22	D.W.				1:1500	7323-005WAE	MN7323-002	
P18	B7	Dimensions increased by 500mm.	P.C.	04/8/21	J.S.							
REV	ZONE	DETAILS	DRN	DATE	CHKD	APPD						

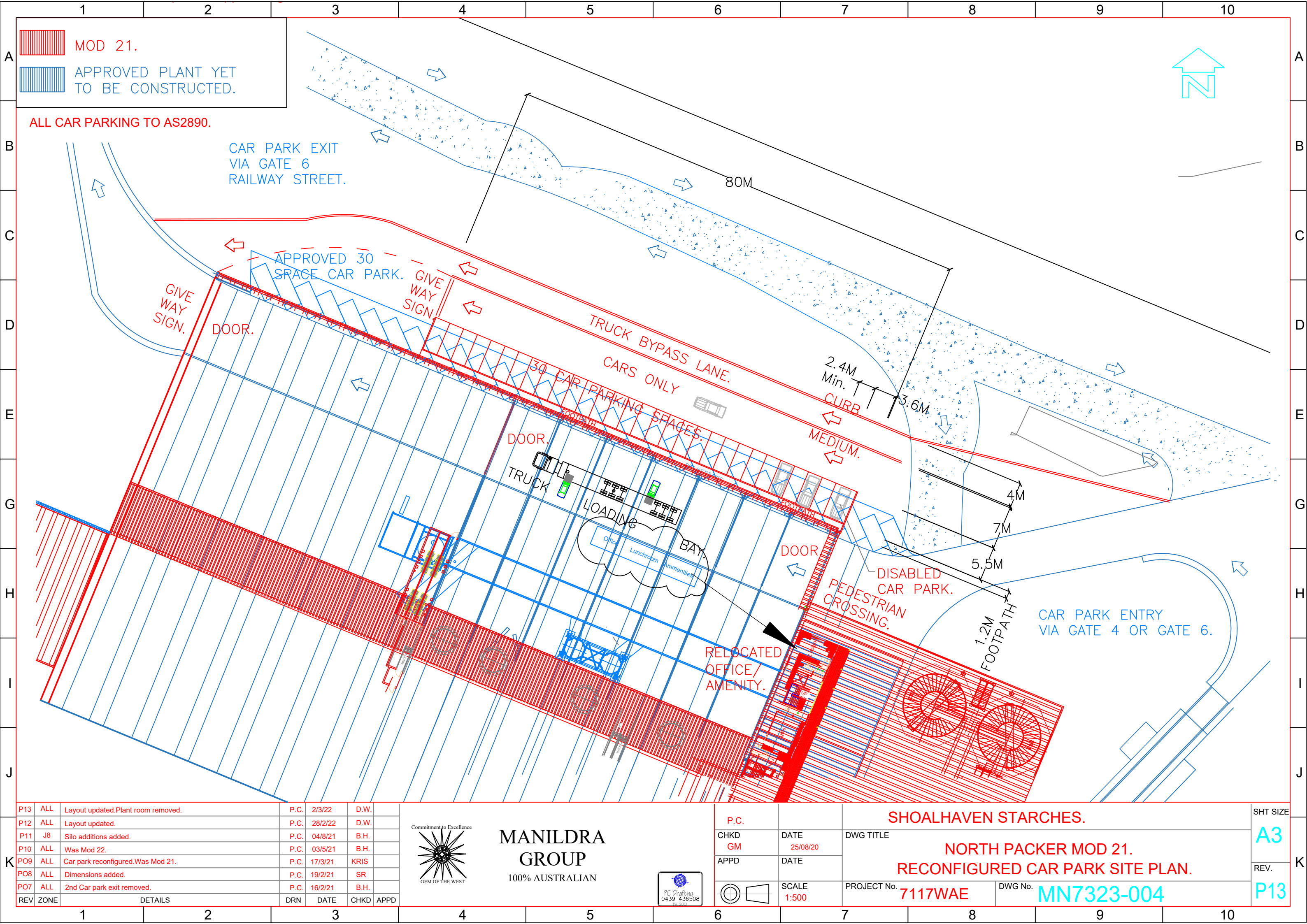
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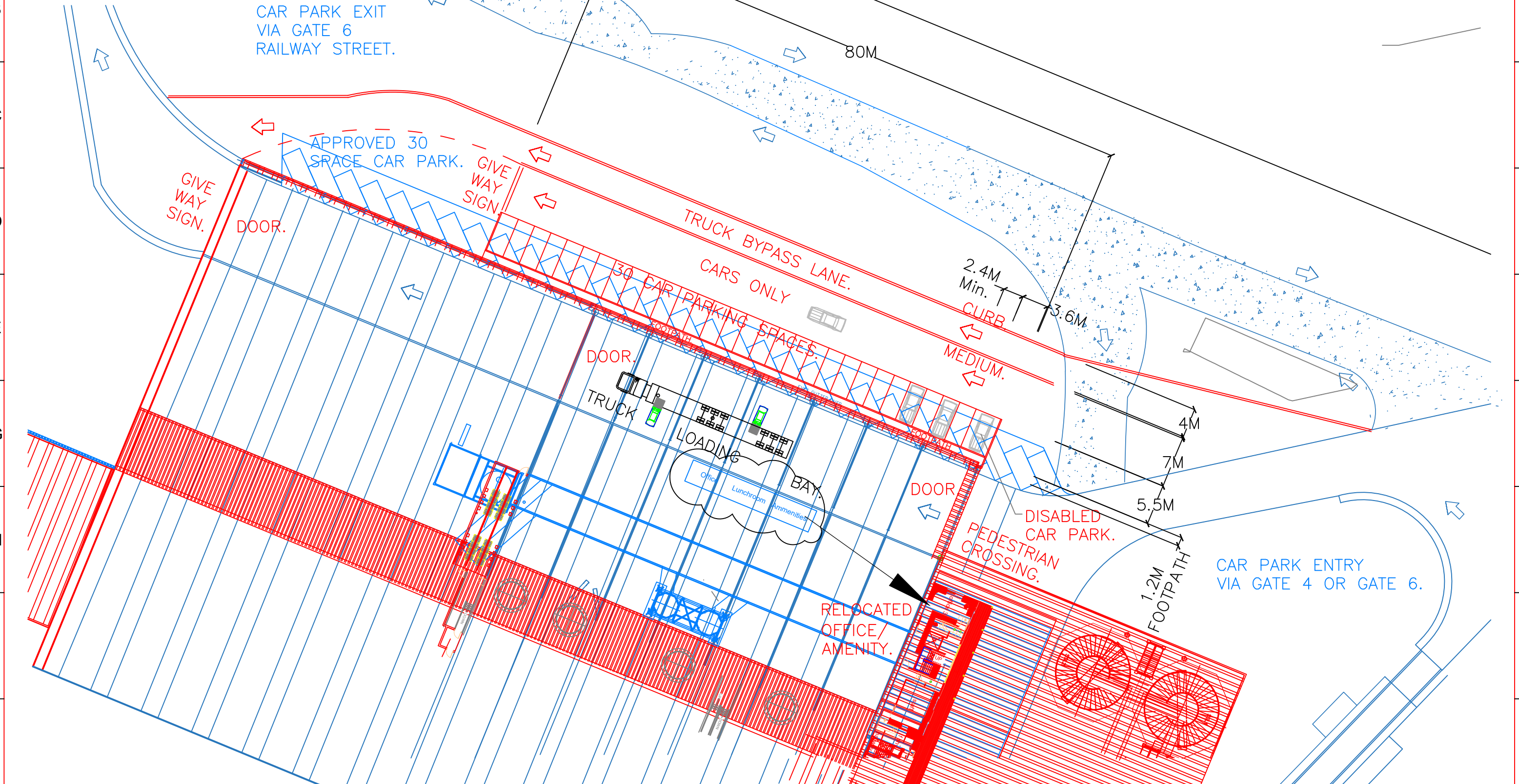
PC Drafting
0439 436508

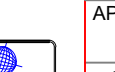


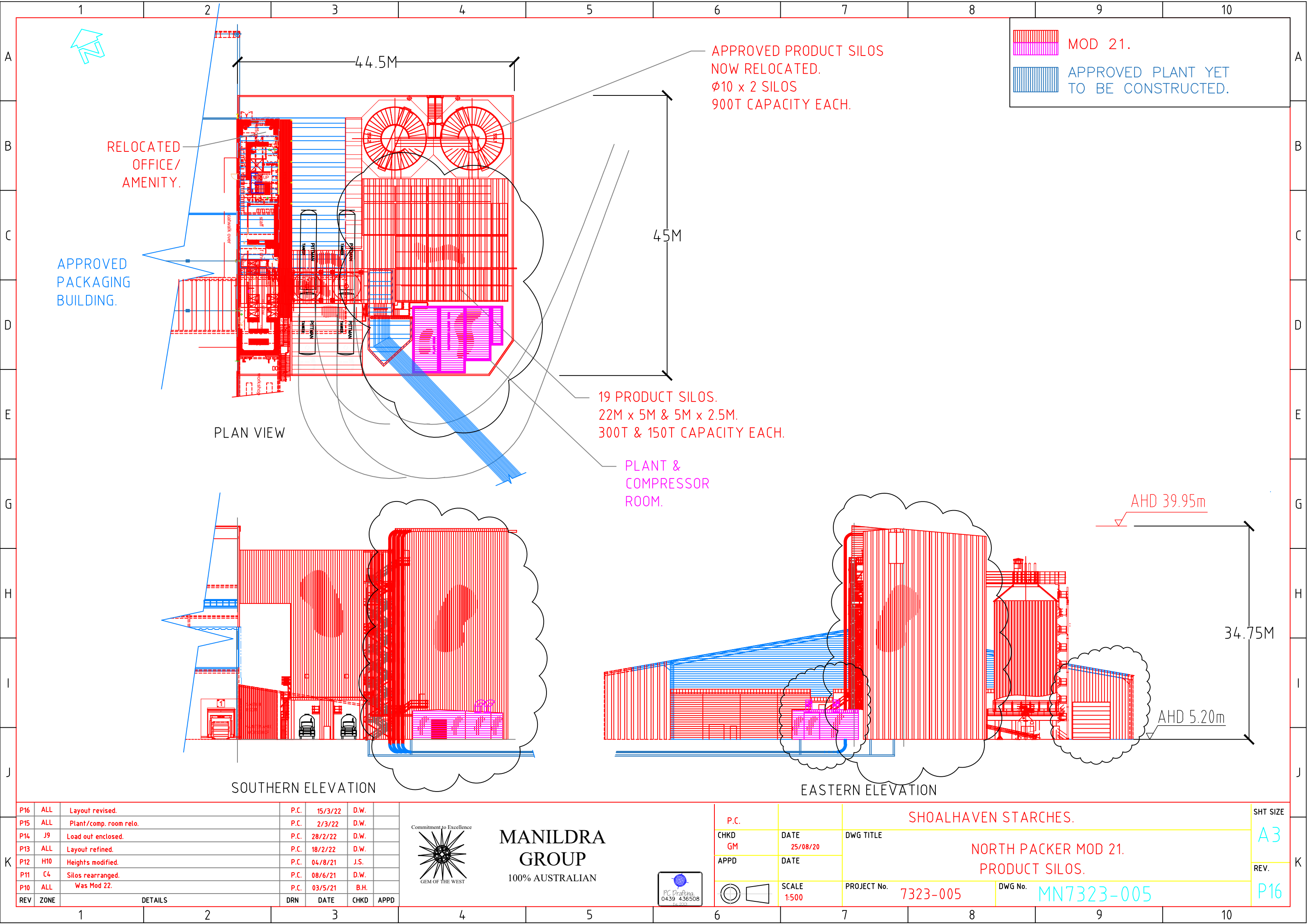
MOD 21.

APPROVED PLANT YET TO BE CONSTRUCTED.

ALL CAR PARKING TO AS2890.



P13	ALL	Layout updated.Plant room removed.	P.C.	2/3/22	D.W.	Commitment to Excellence  MANILDRA GROUP 100% AUSTRALIAN 	P.C.		SHOALHAVEN STARCHES.		SHT SIZE
P12	ALL	Layout updated.	P.C.	28/2/22	D.W.		CHKD	DATE	DWG TITLE	NORTH PACKER MOD 21. RECONFIGURED CAR PARK SITE PLAN.	A3
P11	J8	Silo additions added.	P.C.	04/8/21	B.H.		GM	25/08/20			
P10	ALL	Was Mod 22.	P.C.	03/5/21	B.H.		APPD	DATE			REV.
PO9	ALL	Car park reconfigured.Was Mod 21.	P.C.	17/3/21	KRIS			SCALE	PROJECT No.	DWG No.	P13
PO8	ALL	Dimensions added.	P.C.	19/2/21	SR			1:500	7117WAE	MN7323-004	
PO7	ALL	2nd Car park exit removed.	P.C.	16/2/21	B.H.						
REV	ZONE	DETAILS	DRN	DATE	CHKD	APPD					



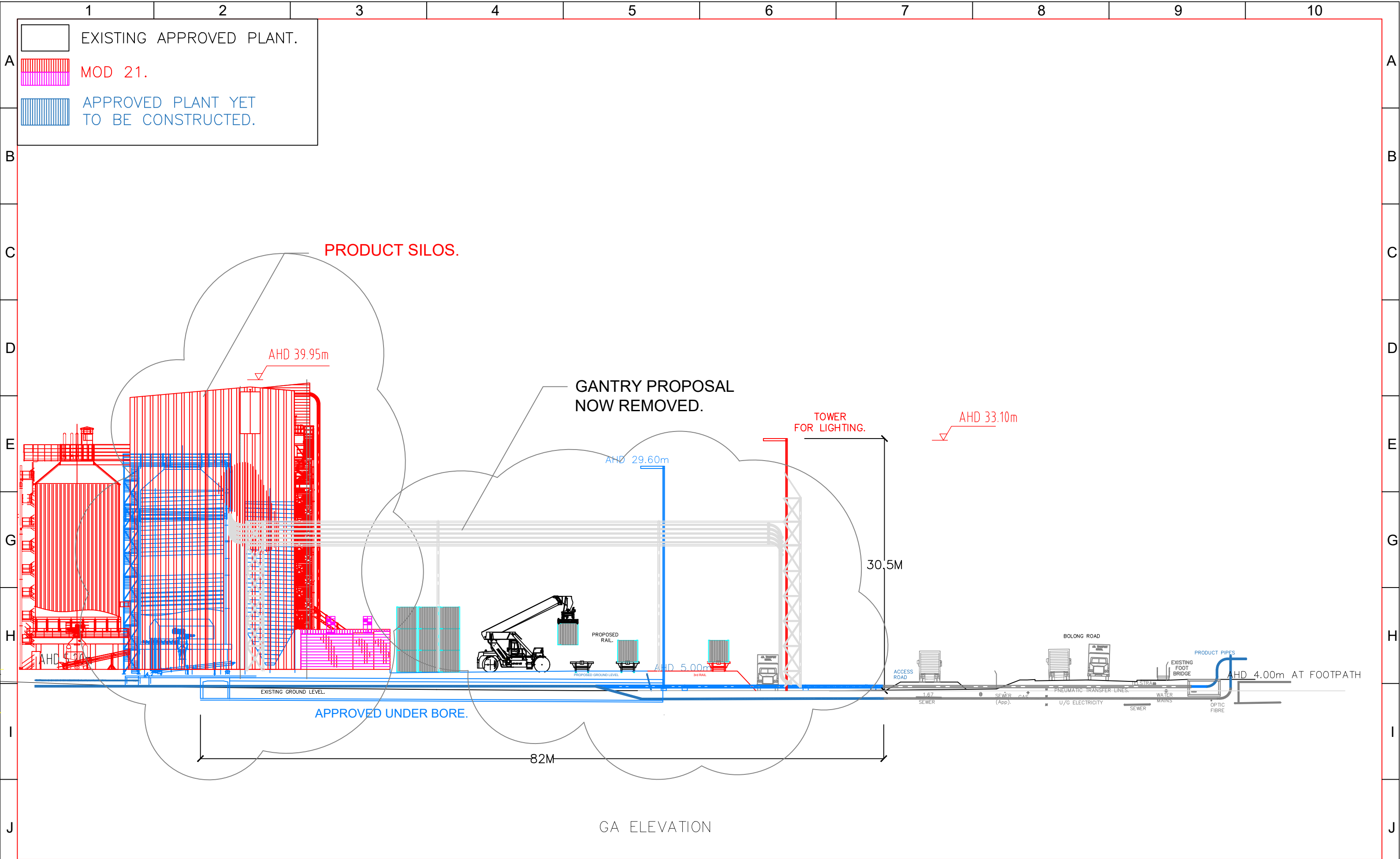
P16	ALL	Layout revised.	P.C.	15/3/22	D.W.	
P15	ALL	Plant/comp. room relo.	P.C.	2/3/22	D.W.	
P14	J9	Load out enclosed.	P.C.	28/2/22	D.W.	
P13	ALL	Layout refined.	P.C.	18/2/22	D.W.	
P12	H10	Heights modified.	P.C.	04/8/21	J.S.	
P11	C4	Silos rearranged.	P.C.	08/6/21	D.W.	
P10	ALL	Was Mod 22.	P.C.	03/5/21	B.H.	
REV	ZONE	DETAILS	DRN	DATE	CHKD	APPD



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P.C.	DATE	SHOALHAVEN STARCHES.		SHT SIZE
CHKD GM	25/08/20	DWG TITLE		A3
APPD	DATE	NORTH PACKER MOD 21. PRODUCT SILOS.		REV.
	SCALE 1:500	PROJECT No. 7323-005	DWG No. MN7323-005	P16



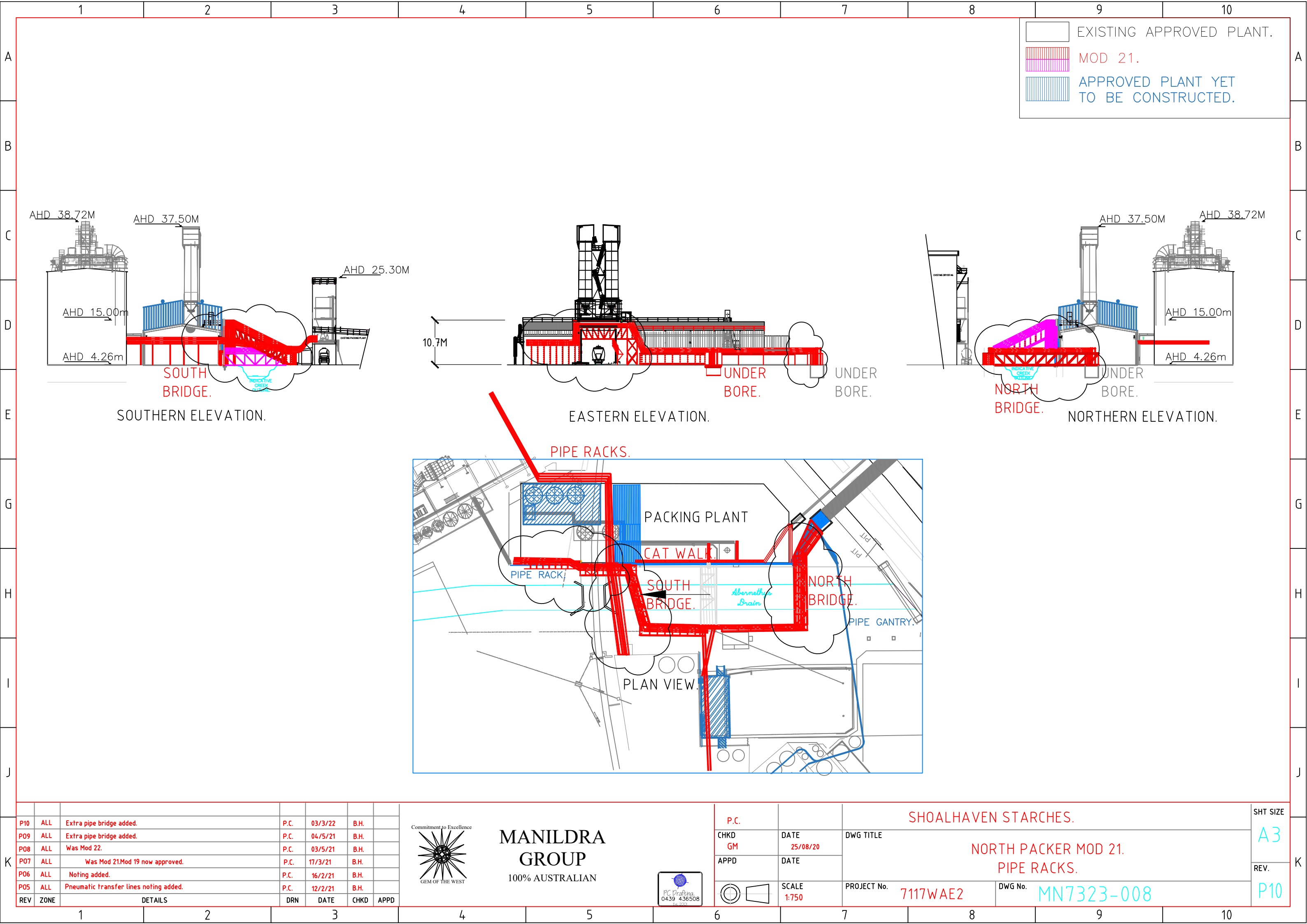
P12	ALL	Removed gantry shown ghosted.	P.C.	28/03/22	B.H.	
P11	ALL	Layout refined.	P.C.	17/03/22	B.H.	
P10	ALL	Was Mod 22.	P.C.	03/5/21	B.H.	
P09	ALL	Levels adjusted.	P.C.	28/4/21	B.H.	
P08	ALL	ALPacker FFL was 4.75.Reset out.	P.C.	20/4/21	B.H.	
P07	ALL	Now Mod 22.	P.C.	17/3/21	B.H.	
P06	ALL	Now Mod 21.	P.C.	10/2/21	B.H.	
REV	ZONE	DETAILS	DRN	DATE	CHKD	APPD



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P.C.		SHOALHAVEN STARCHES.		SHT SIZE
CHKD	GM	DATE	DWG TITLE	A3
APPD		DATE		REV.
		SCALE	PROJECT No.	P12
		1:400	7117WAE	
			DWG No.	
			MN7323-006	



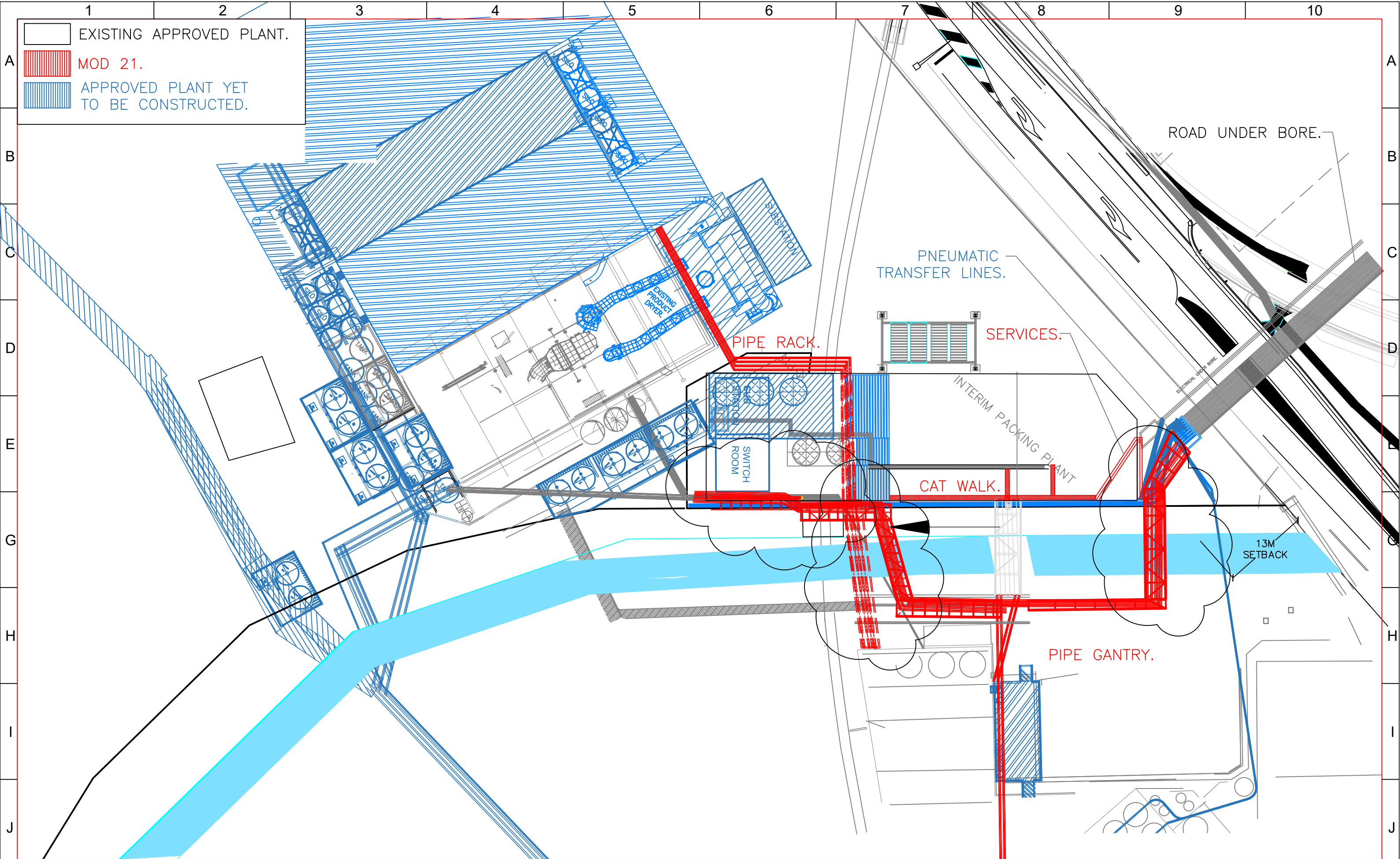
P10	ALL	Extra pipe bridge added.	P.C.	03/3/22	B.H.	
P09	ALL	Extra pipe bridge added.	P.C.	04/5/21	B.H.	
P08	ALL	Was Mod 22.	P.C.	03/5/21	B.H.	
P07	ALL	Was Mod 21.Mod 19 now approved.	P.C.	17/3/21	B.H.	
P06	ALL	Noting added.	P.C.	16/2/21	B.H.	
P05	ALL	Pneumatic transfer lines noting added.	P.C.	12/2/21	B.H.	
REV	ZONE	DETAILS	DRN	DATE	CHKD	APPD



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P.C.	DATE	SHOALHAVEN STARCHES.		SHT SIZE
CHKD GM	25/08/20	DWG TITLE		A3
APPD	DATE	NORTH PACKER MOD 21. PIPE RACKS.		REV.
SCALE 1:750	PROJECT No. 7117WAE2	DWG No. MN7323-008	P10	



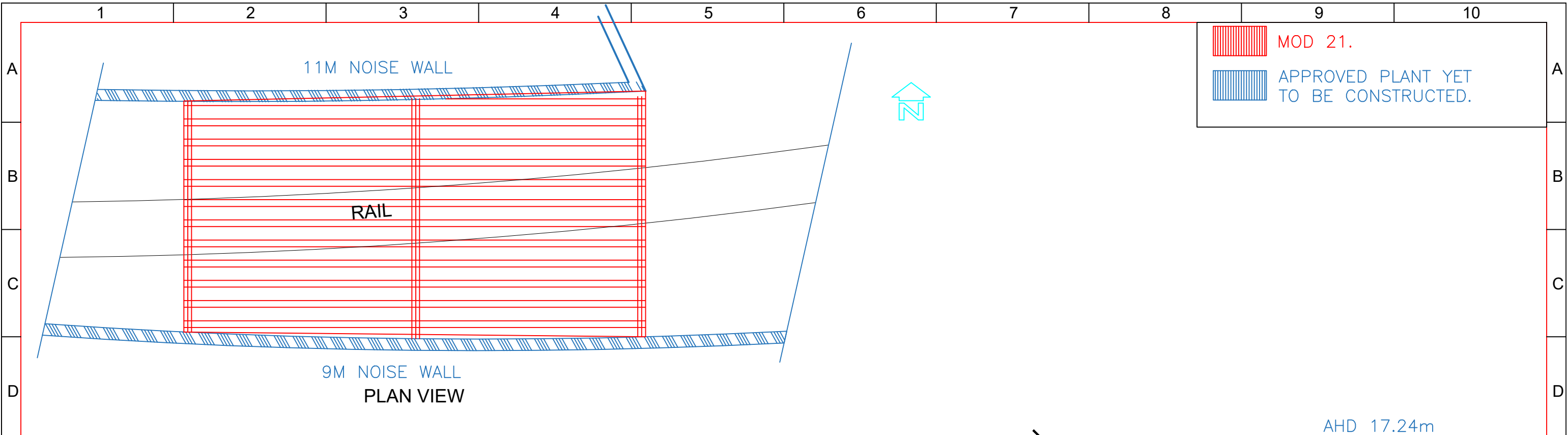
P11	ALL	Pipe bridge added & amended.	P.C.	03/3/22	B.H.	
P10	ALL	Extra pipe bridge added.	P.C.	04/5/21	B.H.	
PO9	ALL	Was Mod 22.	P.C.	03/5/21	B.H.	
PO8	ALL	Was Mod 21.Mod 19 now approved.	P.C.	17/3/21	B.H.	
PO7	ALL	Noting added.	P.C.	16/2/21	B.H.	
PO6	ALL	Pneumatic transfer lines noting added.	P.C.	12/2/21	B.H.	
REV	ZONE	DETAILS	DRN	DATE	CHKD	APPD



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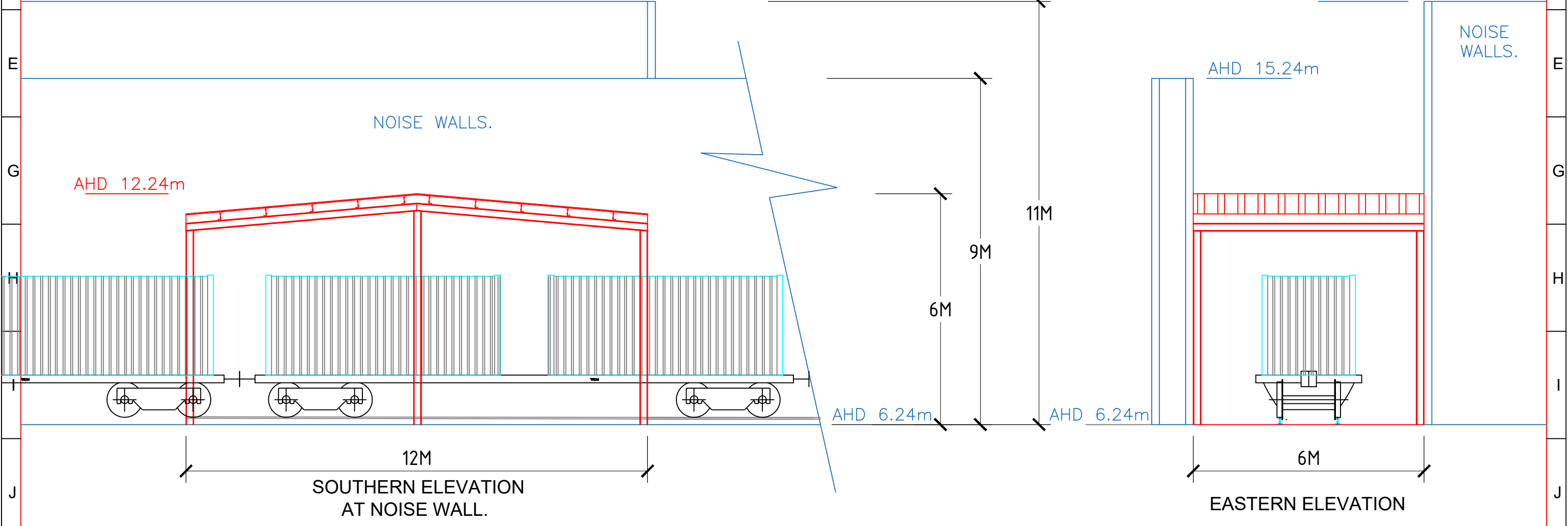


P.C.	DATE	SHOALHAVEN STARCHES.		SHT SIZE
CHKD GM	25/08/20	NORTH PACKER MOD 21.		A3
APPD	DATE	PIPE GANTRIES SITE PLAN.		REV.
	SCALE 1:500	PROJECT No. 7117	DWG No. MN7323-009	P11



MOD 21.

APPROVED PLANT YET TO BE CONSTRUCTED.



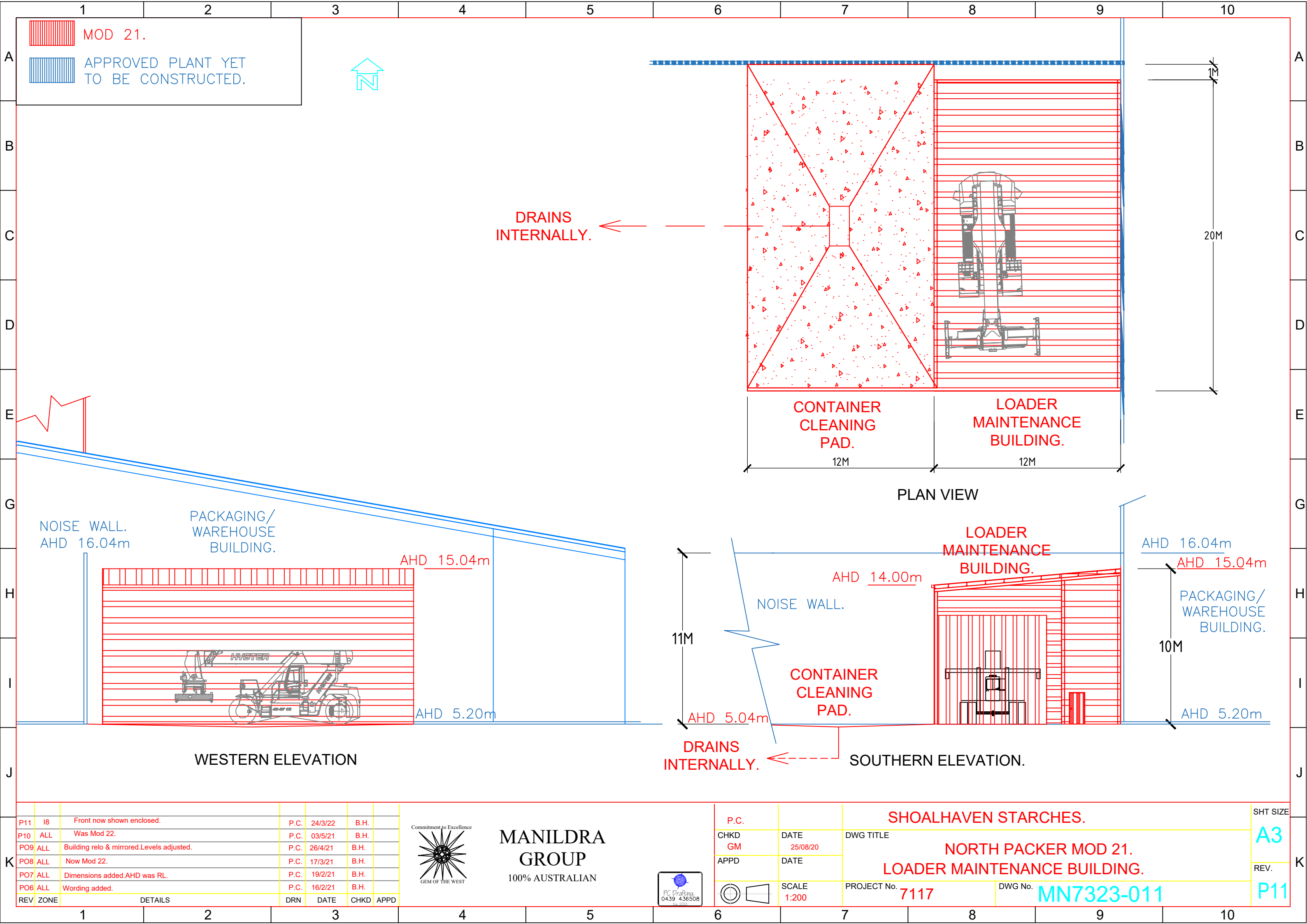
P10	ALL	Was Mod 22.	P.C.	03/5/21	B.H.	
PO9	ALL	Levels adjusted.	P.C.	26/4/21	B.H.	
PO8	ALL	Now Mod 22.	P.C.	17/3/21	B.H.	
PO7	ALL	Dimensions added.AHD was RL.	P.C.	18/2/21	B.H.	
PO6	ALL	At noise wall wording added.	P.C.	12/2/21	B.H.	
PO5	ALL	Now Mod 21.	P.C.	10/2/21	B.H.	
PO4	ALL	Levels raised 400mm.	P.C.	18/12/20	B.H.	
REV	ZONE	DETAILS	DRN	DATE	CHKD	APPD

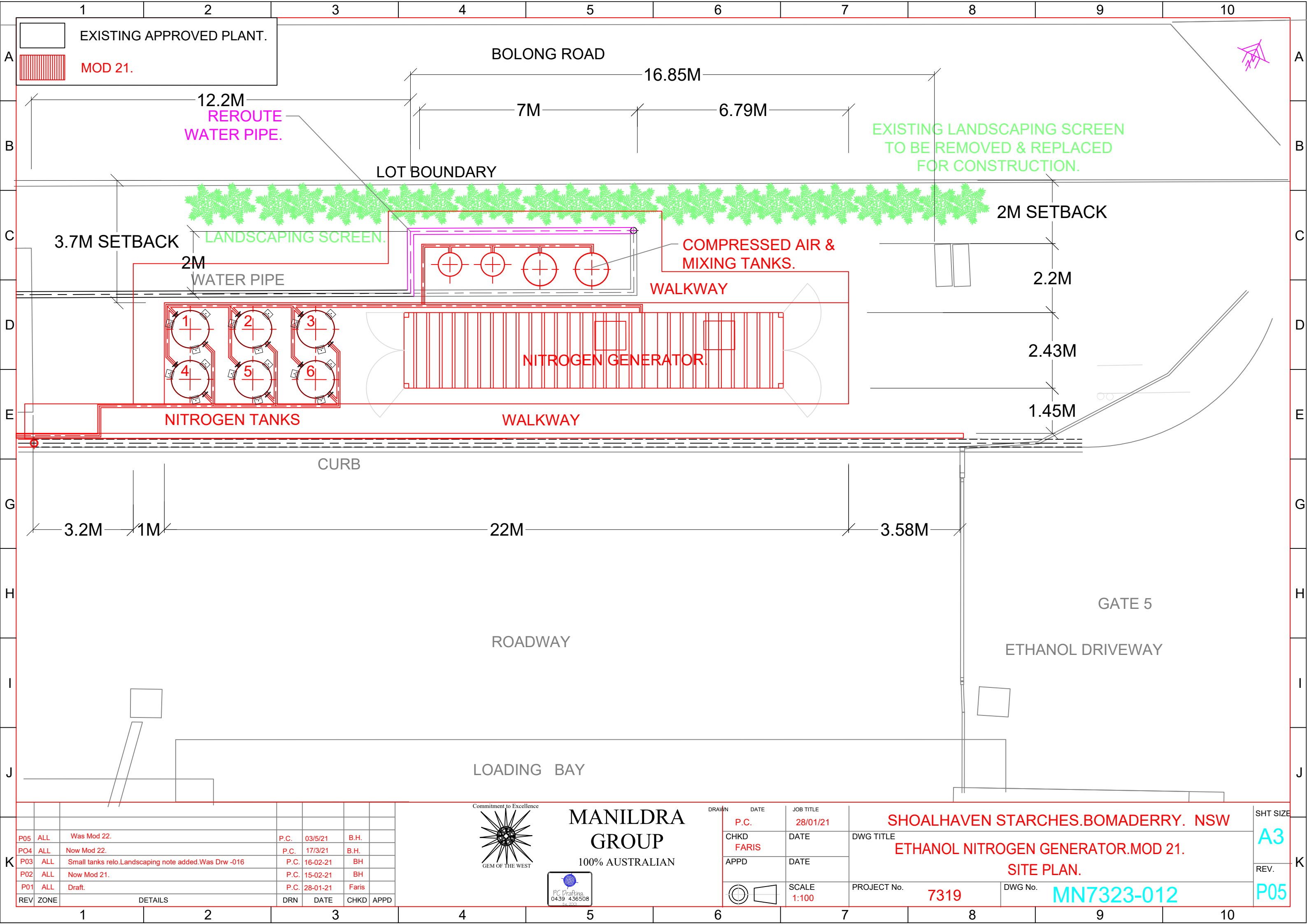


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P.C.		SHOALHAVEN STARCHES.		SHT SIZE
CHKD	DATE	DWG TITLE		A3
GM	25/08/20	NORTH PACKER MOD 21.		REV.
APPD	DATE	RAIL TUNNEL.		P10
	SCALE	PROJECT No.	DWG No.	
	1:100	7117	MN7323-010	





EXISTING APPROVED PLANT.

MOD 21.

REV	ZONE	DETAILS	DRN	DATE	CHKD	APPD
P05	ALL	Was Mod 22.	P.C.	03/5/21	B.H.	
PO4	ALL	Now Mod 22.	P.C.	17/3/21	B.H.	
P03	ALL	Small tanks relo.Landscaping note added.Was Drw -016	P.C.	16-02-21	BH	
P02	ALL	Now Mod 21.	P.C.	15-02-21	BH	
P01	ALL	Draft.	P.C.	28-01-21	Faris	

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GEM OF THE WEST

MANILDRA GROUP

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PC Drafting

0439 436508

Est. 2002

DRAWN

DATE

JOB TITLE

CHKD

DATE

DWG TITLE

APPD

DATE

PROJECT No.

SCALE

DWG No.

SHT SIZE

REV.

SHOALHAVEN STARCHES.BOMADERRY. NSW

ETHANOL NITROGEN GENERATOR.MOD 21.

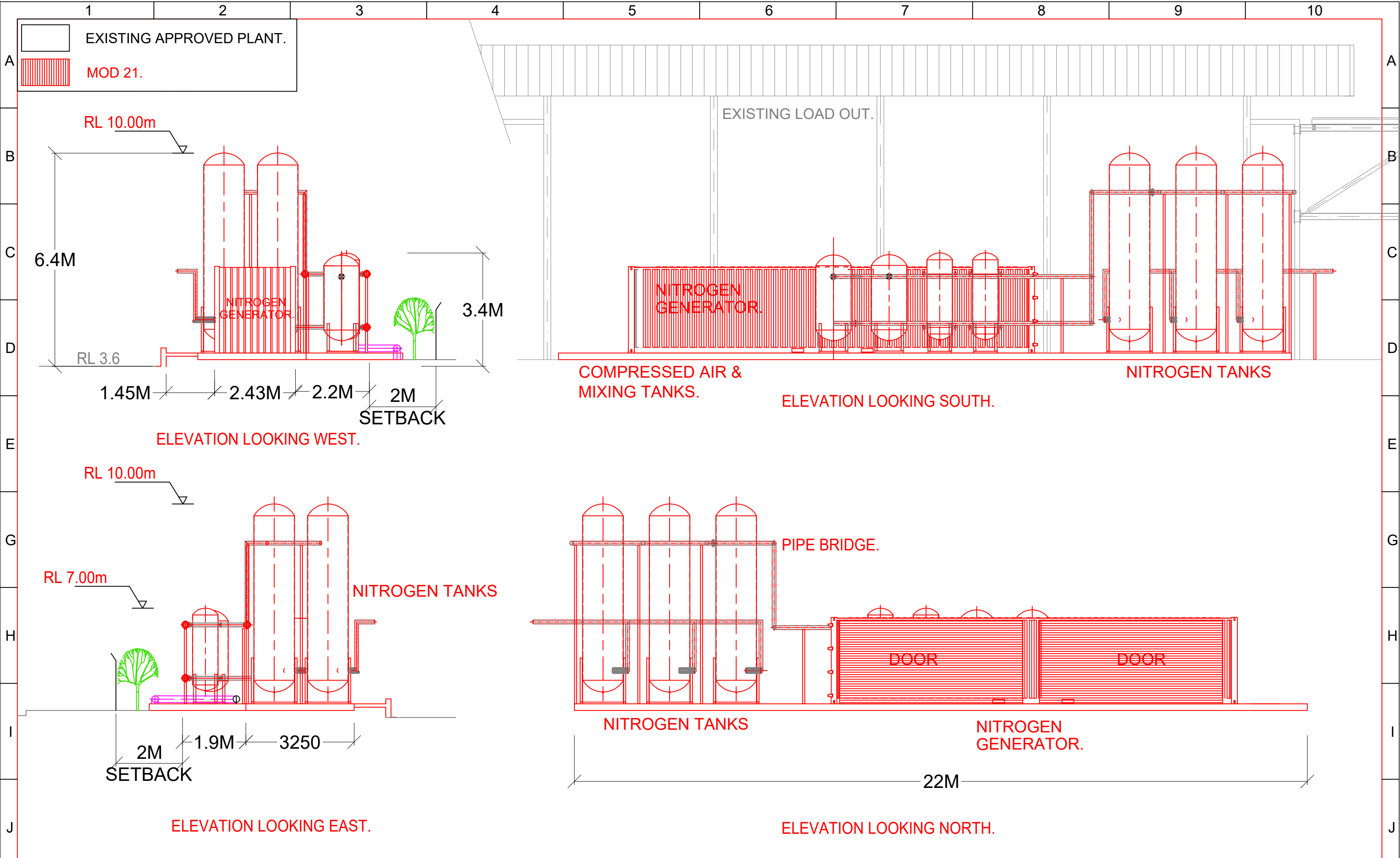
SITE PLAN.

7319

MN7323-012

A3

P05



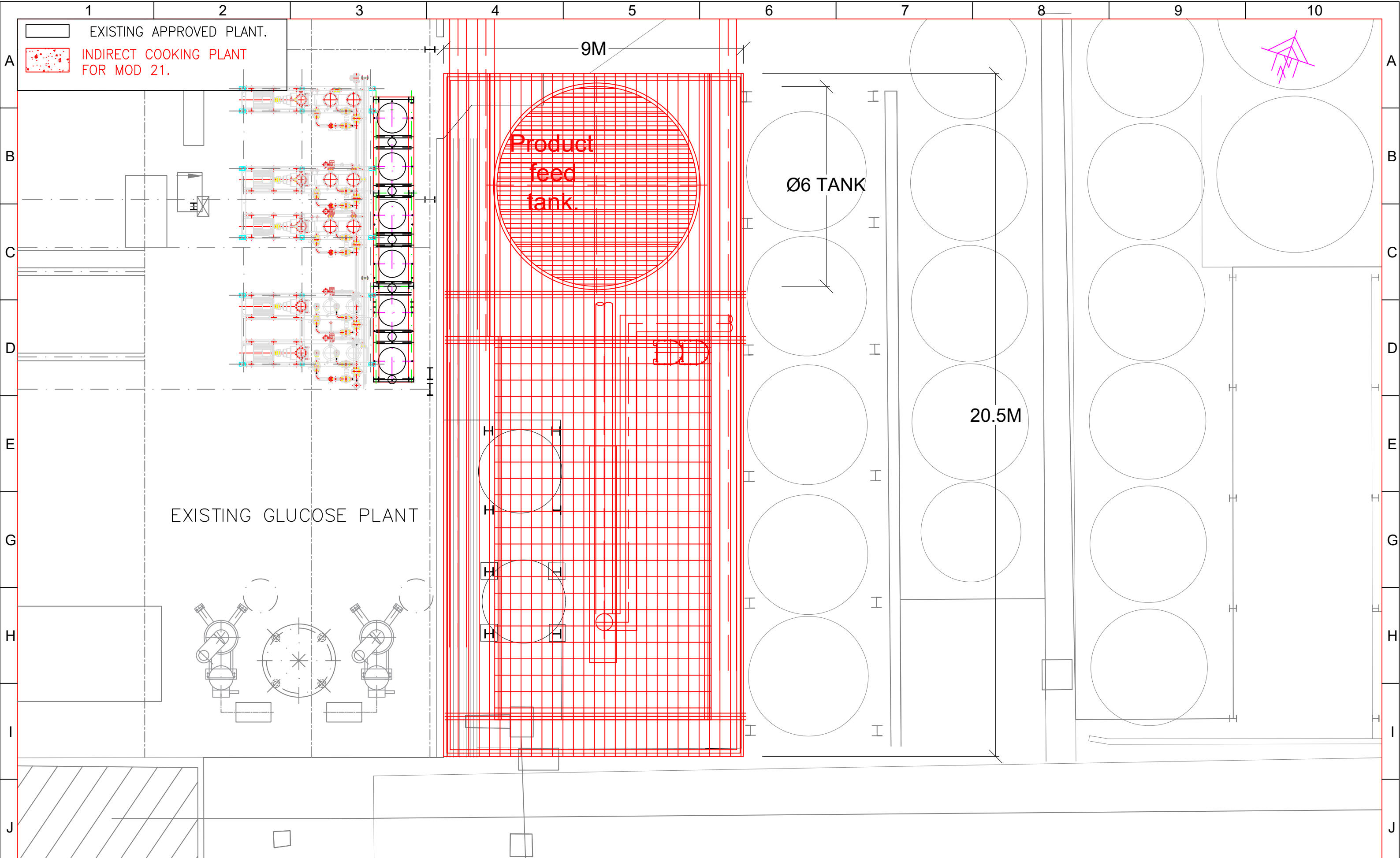
REV	ZONE	DETAILS	DRN	DATE	CHKD	APPD
P05	ALL	Was Mod 22.	P.C.	03/5/21	B.H.	
PO4	ALL	Now Mod 22.	P.C.	17/3/21	B.H.	
P03	ALL	Small tanks relo.Was Drw -017	P.C.	16-02-21	BH	
P02	ALL	Now Mod 21.	P.C.	15-02-21	BH	
P01	ALL	Draft.	P.C.	28-01-21	Faris	



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DRAWN	DATE	JOB TITLE	PROJECT No.	DWG No.	SHT SIZE
P.C.	28/01/21	SHOALHAVEN STARCHES.BOMADERRY. NSW	7319	MN7323-013	A3
CHKD FARIS	DATE	DWG TITLE			REV.
APPD	DATE				
	SCALE 1:100				



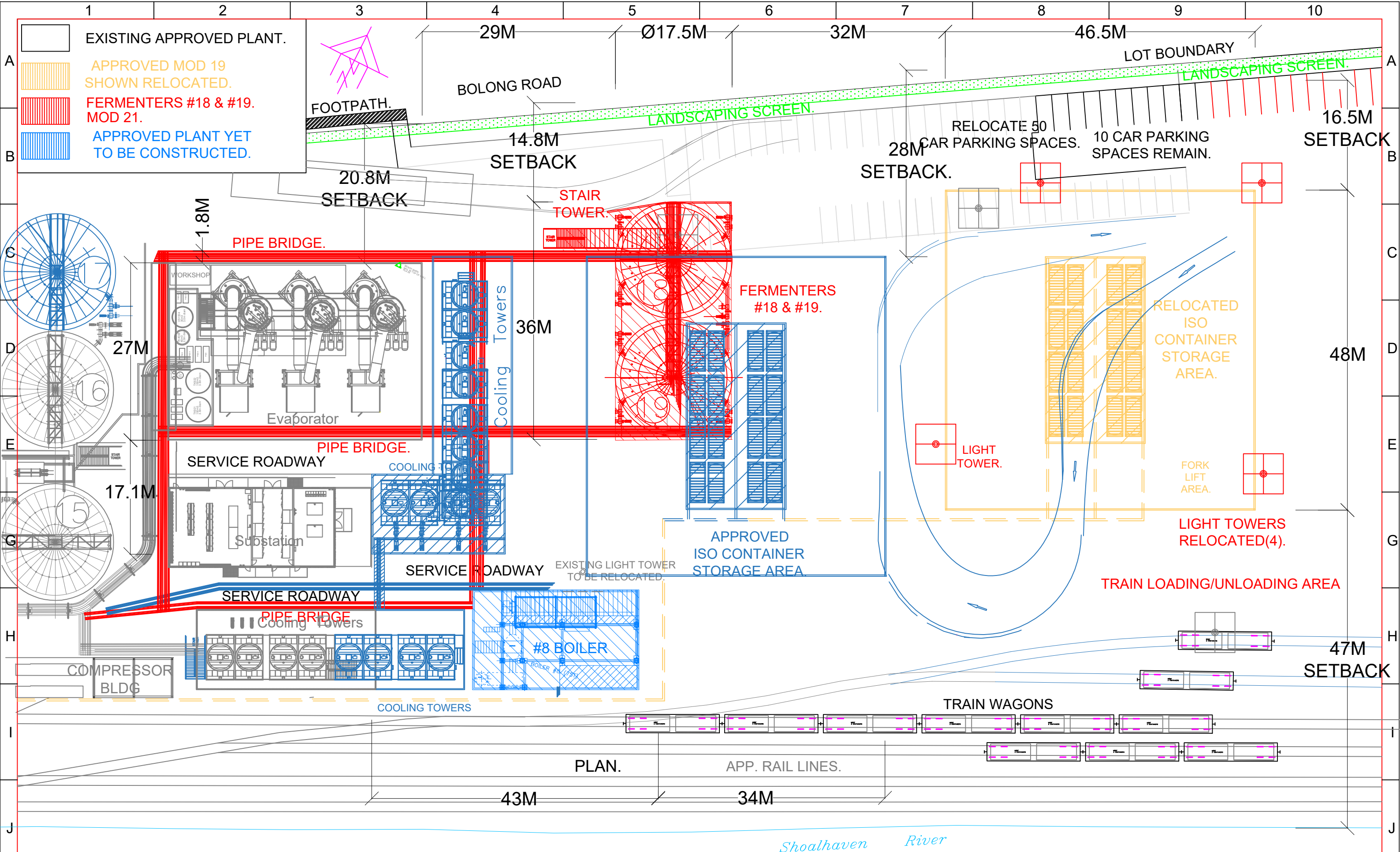
P08	ALL	Was Mod 22.	P.C.	3/5/21	B.H.	
P07	ALL	Now Mod 22.	P.C.	17/3/21	B.H.	
P06	ALL	Notes added.	P.C.	12-02-21	K.L.	
P05	ALL	MOD 21.	P.C.	10-02-21	K.L.	
P04	ALL	Proposal finalised.	P.C.	05-02-21	K.L.	
P03	ALL	Original layout.	P.C.	04-02-21	K.L.	
P02	ALL	Footprint narrowed and heightened.	P.C.	04-02-21	K.L.	
REV	ZONE	DETAILS	DRN	DATE	CHKD	APPD



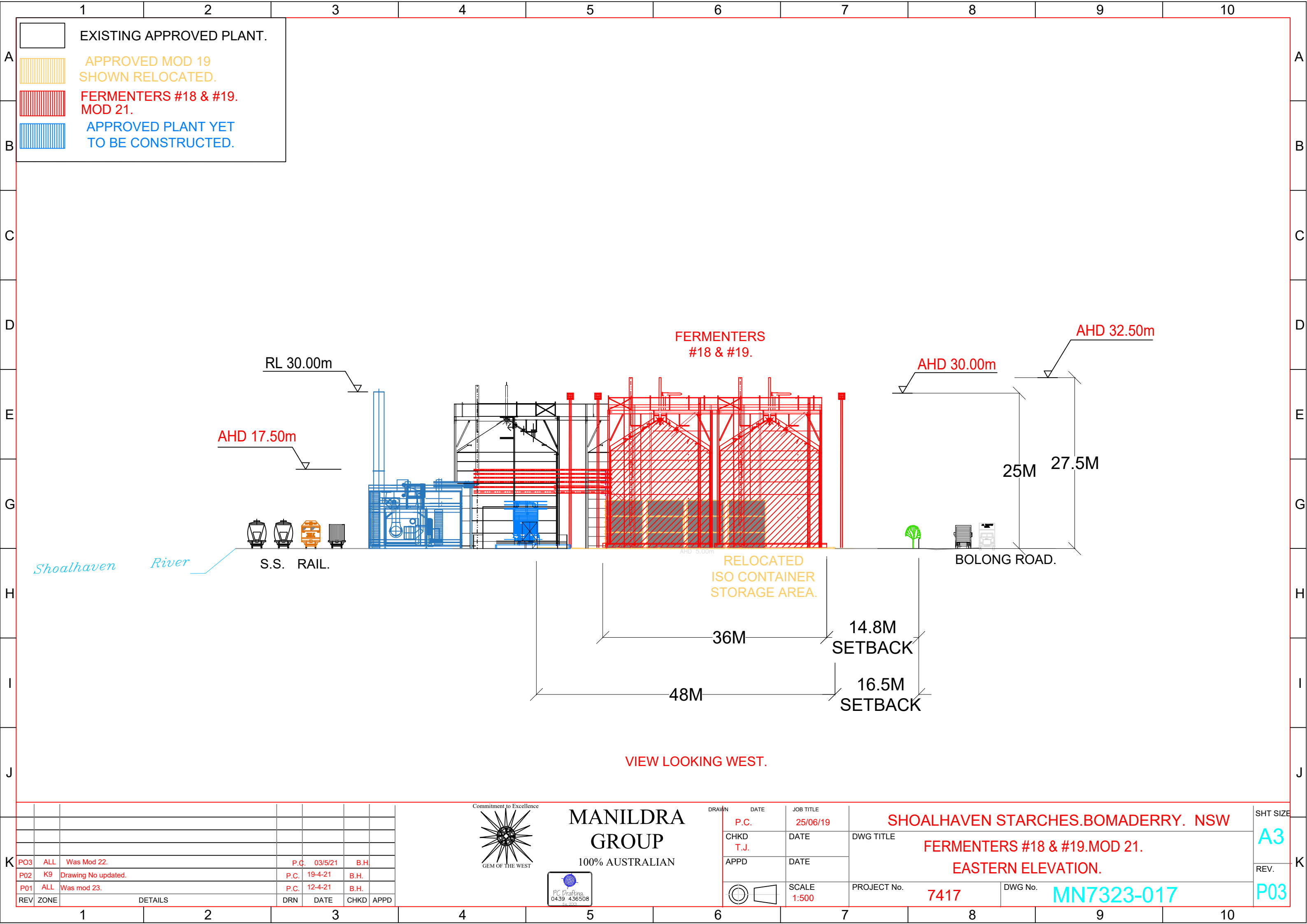
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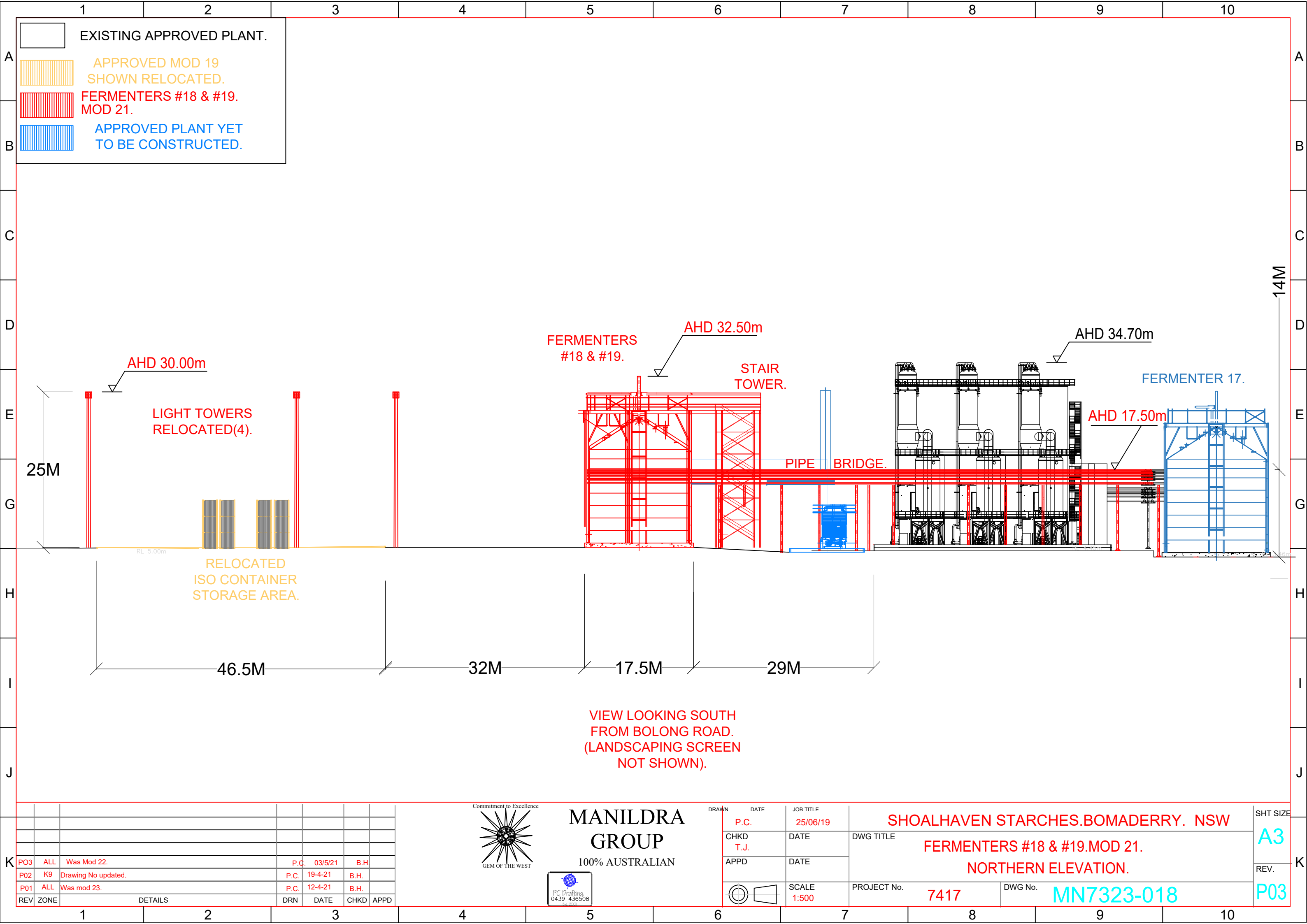


DRAWN	DATE	JOB TITLE	SHT SIZE		
P.C.	28/01/21	SHOALHAVEN STARCHES.BOMADERRY. NSW	A3		
CHKD	DATE	DWG TITLE	REV.		
AT		INDIRECT COOKING MOD 21.	P08		
APPD	DATE	PROJECT No.			
		7320			
	SCALE	DWG No.			
	1:100	MN7323-015			



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REV	ZONE	DETAILS	DRN	DATE	CHKD	APPD
PO3	ALL	Was Mod 22.	P.C.	03/5/21	B.H.	
P02	K9	Drawing No updated.	P.C.	19-4-21	B.H.	
P01	ALL	Was mod 23.	P.C.	12-4-21	B.H.	



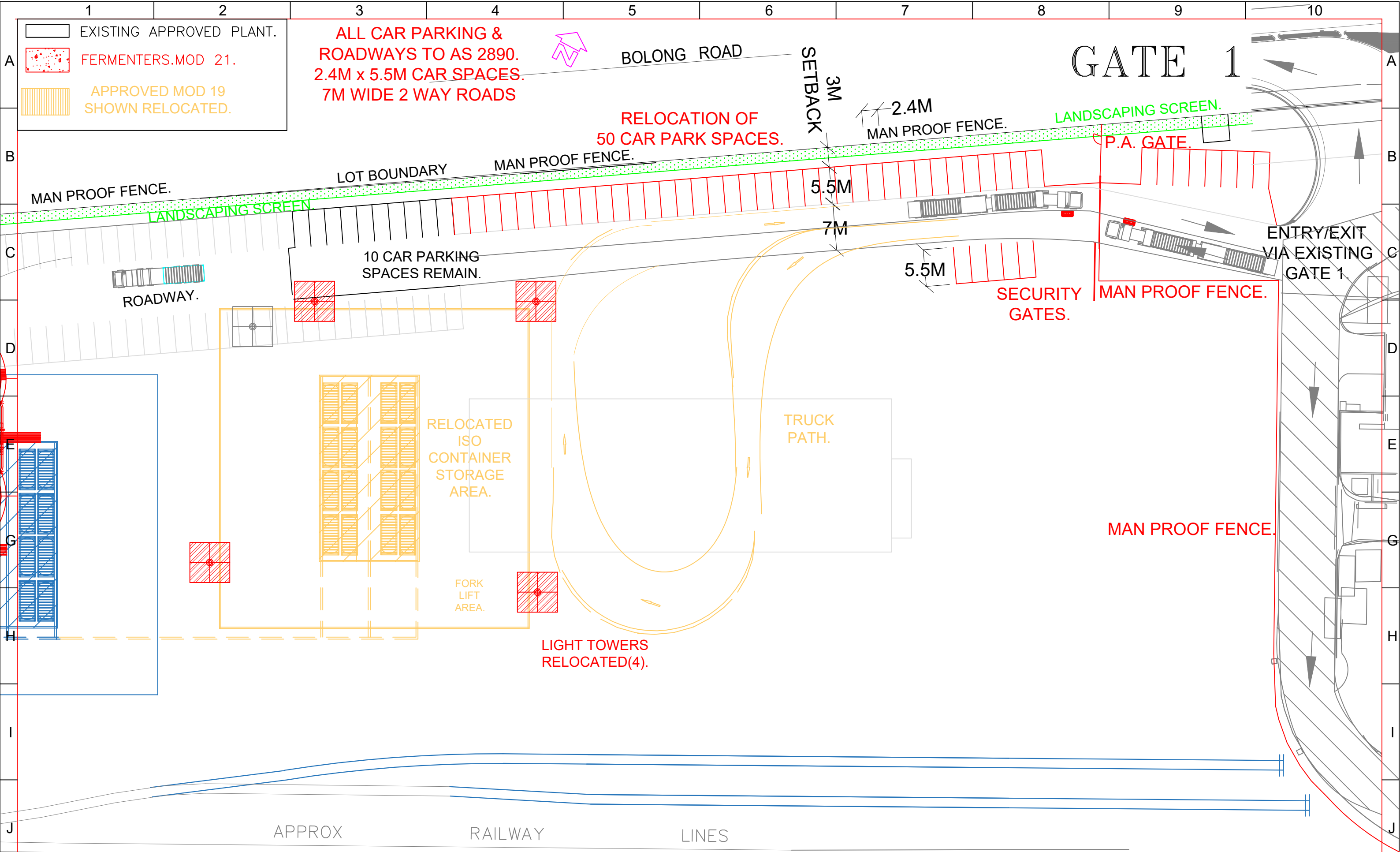
MANILDRA
GROUP
100% AUSTRALIAN



DRAWN	DATE	JOB TITLE
P.C.	25/06/19	SHOALHAVEN STARCHES.BOMADERRY. NSW
CHKD	DATE	DWG TITLE
T.J.		FERMENTERS #18 & #19.MOD 21.
APPD	DATE	NORTHERN ELEVATION.
	SCALE	PROJECT No.
	1:500	7417

DWG TITLE	PROJECT No.	DWG No.
SHOALHAVEN STARCHES.BOMADERRY. NSW	7417	MN7323-018

SHT SIZE	REV.
A3	P03



REV	ZONE	DETAILS	DRN	DATE	CHKD	APPD
PO4	ALL	Was Mod 22.	P.C.	03/5/21	B.H.	
P03	ALL	Car park re-spaced. Drawing No updated.	P.C.	15-4-21	B.H.	
P02	ALL	PA gate added.	P.C.	12-4-21	B.H.	
P01	ALL	Was Mod 23.	P.C.	12-4-21	B.H.	

Commitment to Excellence



GEM OF THE WEST

MANILDRA GROUP

100% AUSTRALIAN

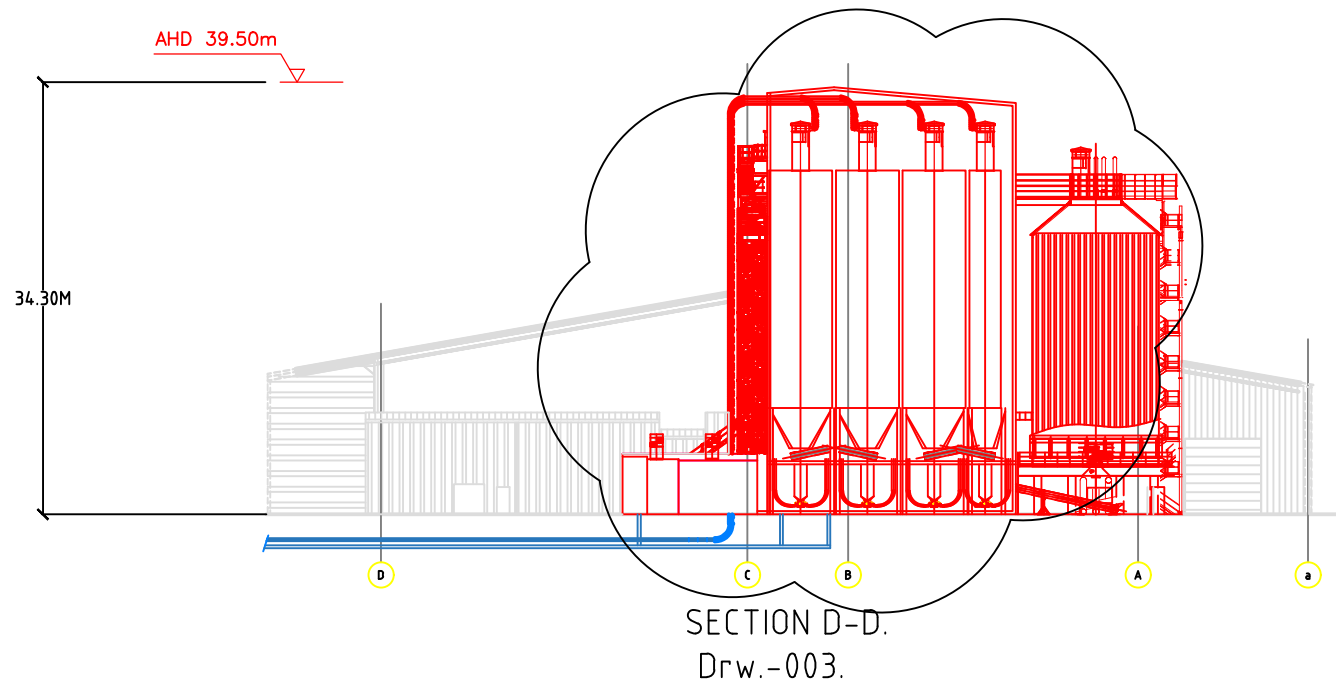
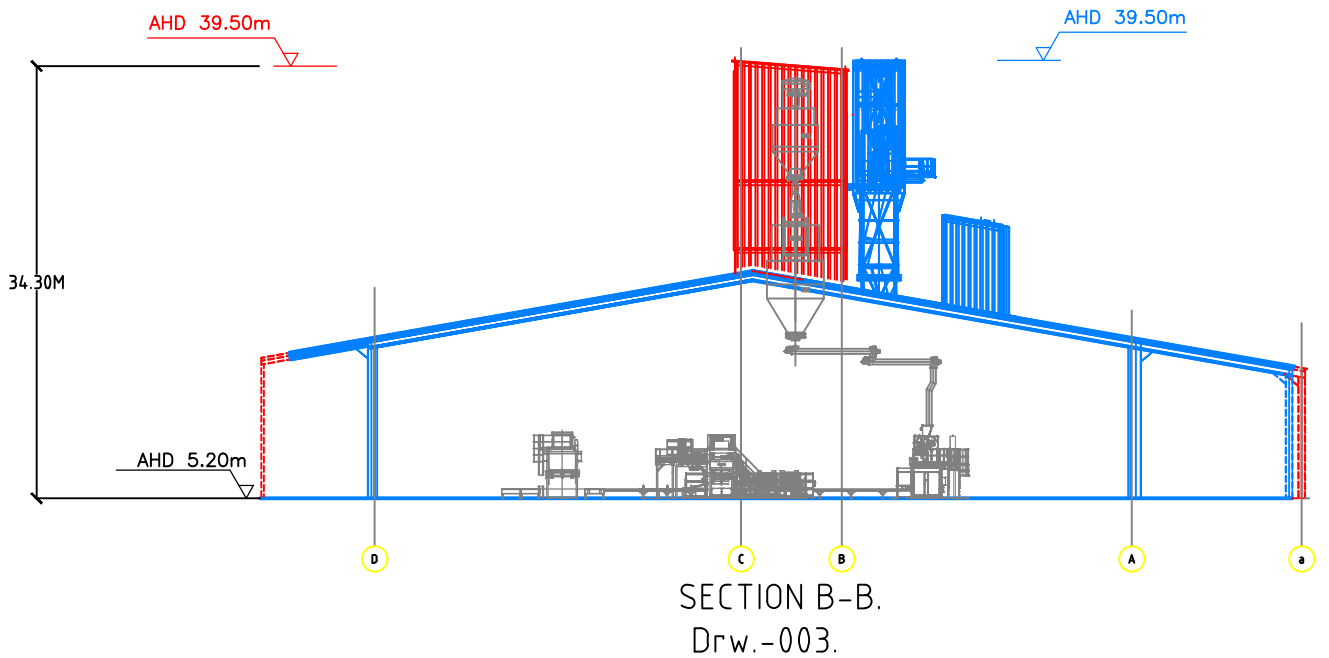
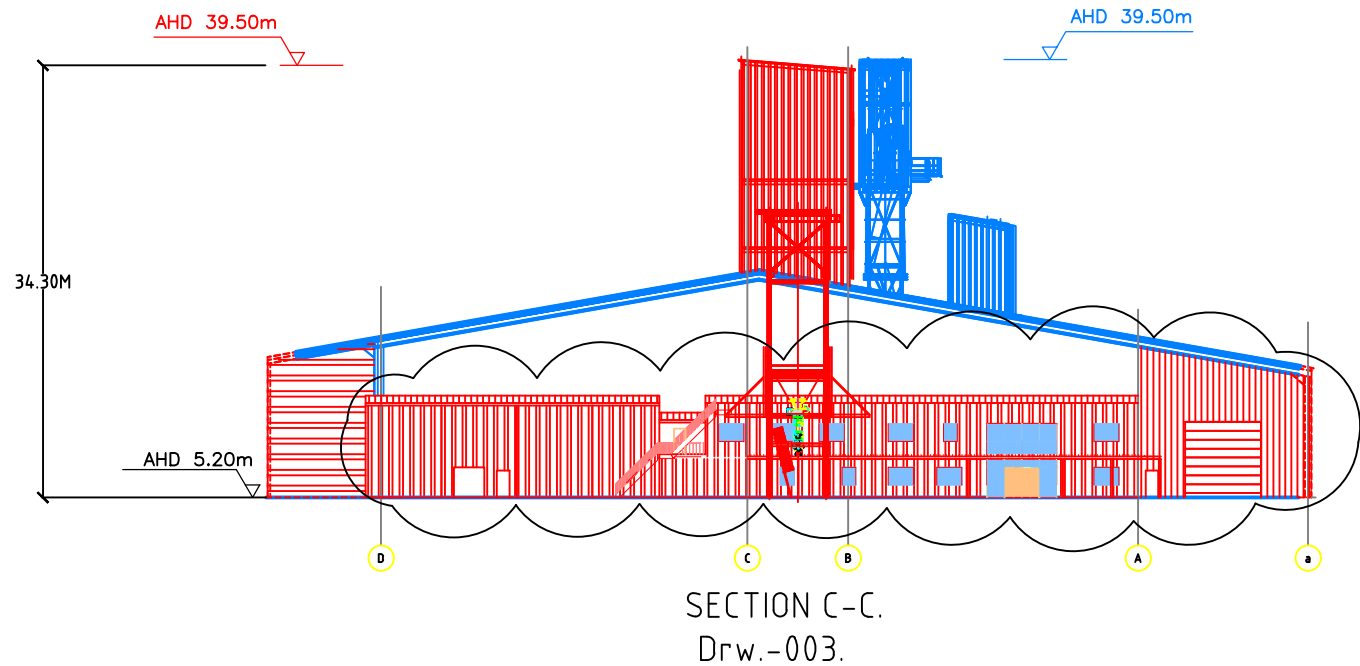
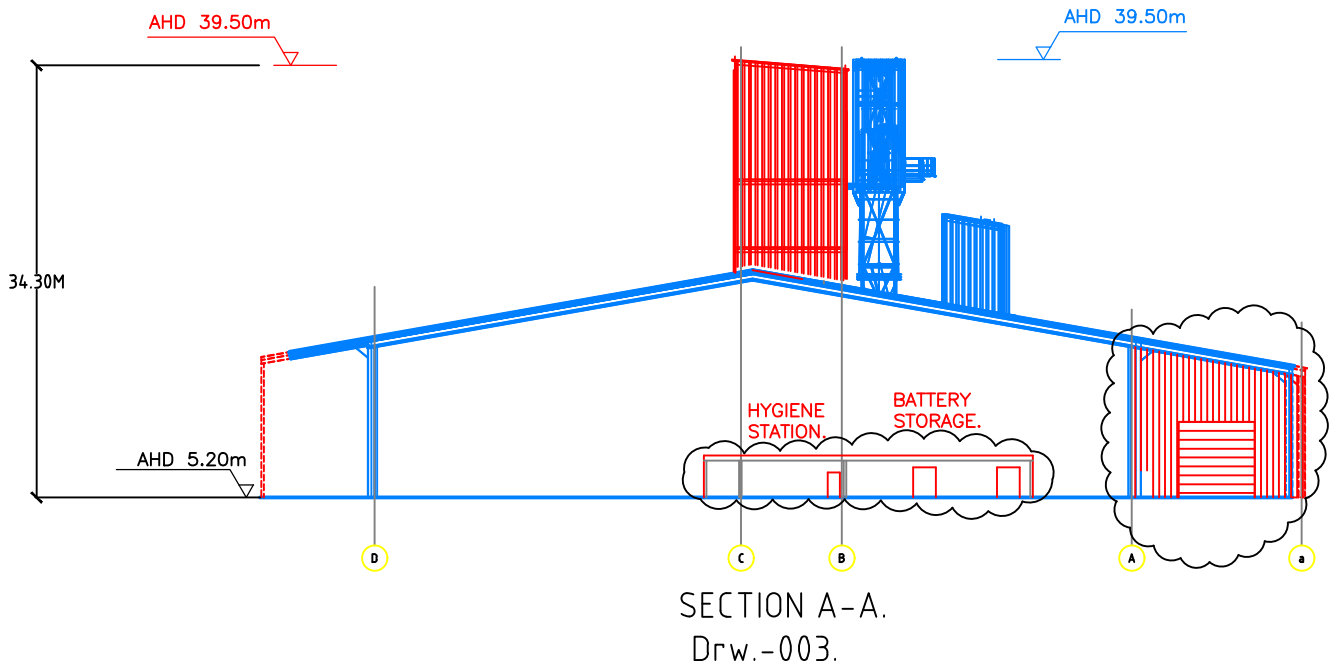


PC Drafting
0439 436508
Est. 2002

P.C.	01/12/20	SHOALHAVEN STARCHES.BOMADERRY. NSW		SHT SIZE
CHKD BH	DATE	DWG TITLE		A3
APPD	DATE	FERMENTERS.MOD 21.		REV.
		CAR PARK SITE PLAN VIEW.		P04
SCALE 1:500	PROJECT No. 7417	DWG No. MN7323-019		

MOD 21.

APPROVED PLANT YET
TO BE CONSTRUCTED.



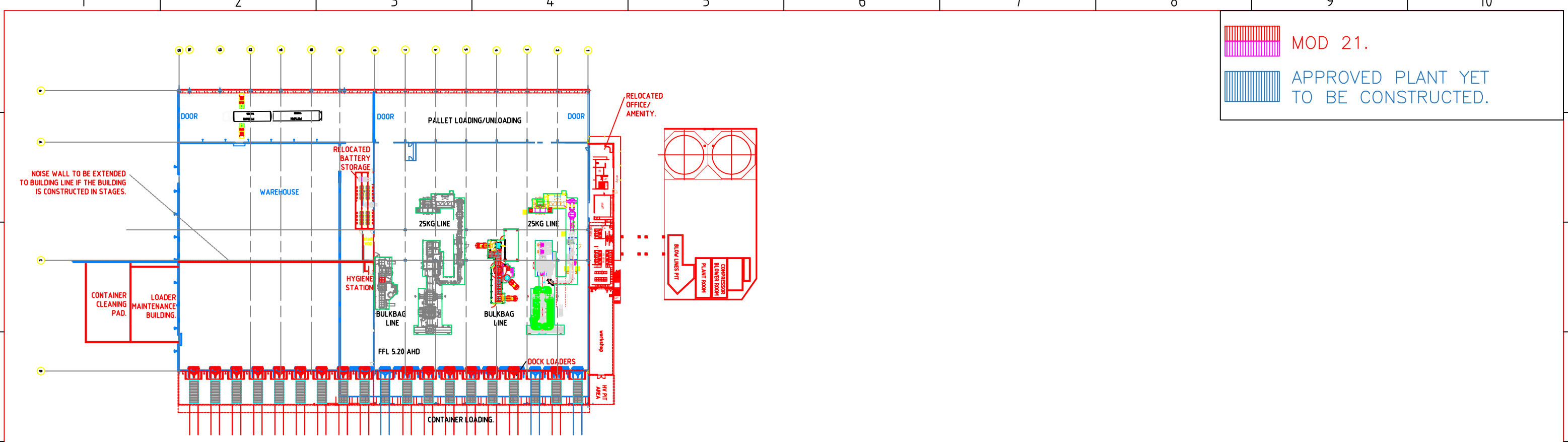
REV	ZONE	DETAILS	DRN	DATE	CHKD	APPD
P02	ALL	Other elevations added.	P.C.	18/3/22	D.W.	
P01	ALL	This drawing added to mod 21.	P.C.	08/8/21	B.H.	



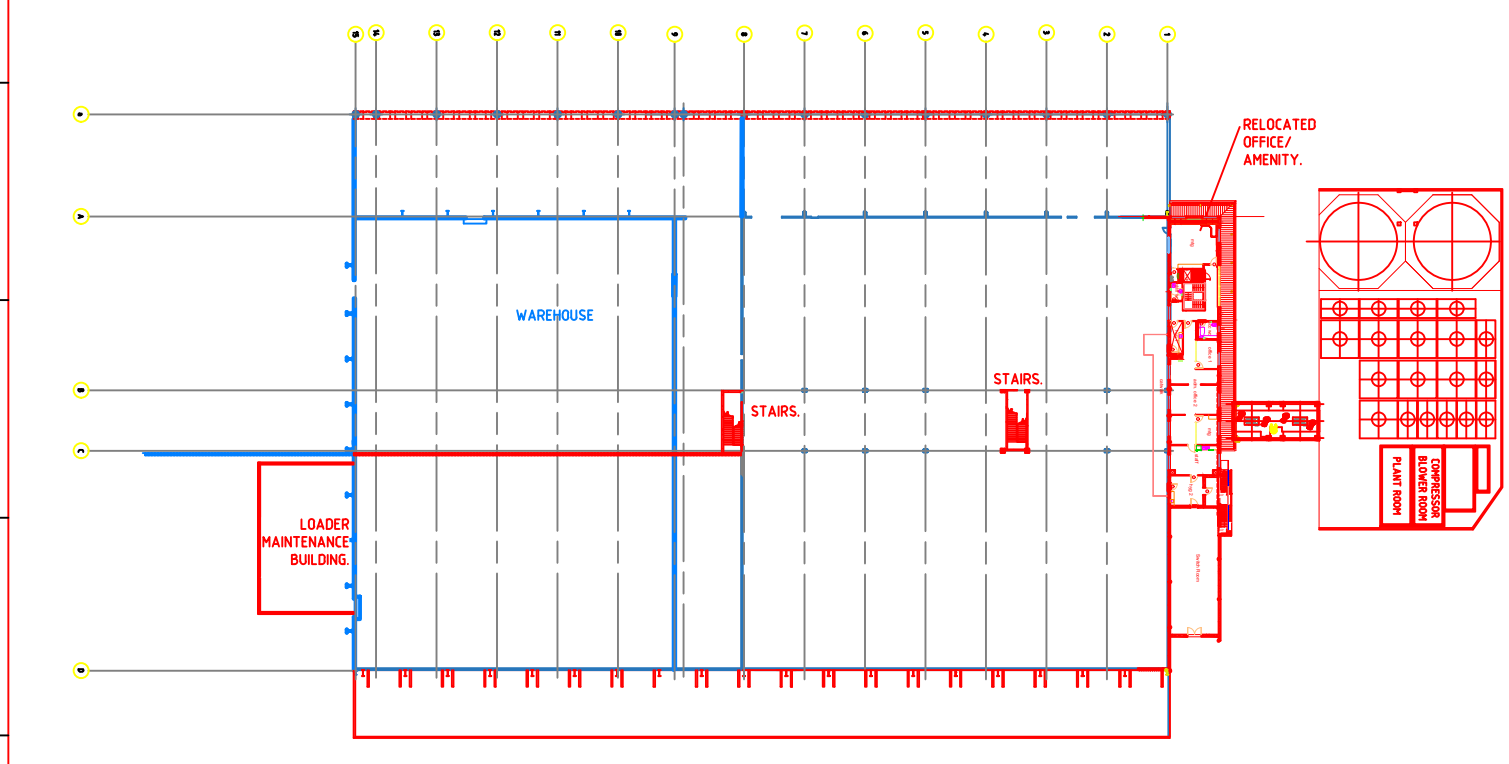
**MANILDRA
GROUP**
100% AUSTRALIAN



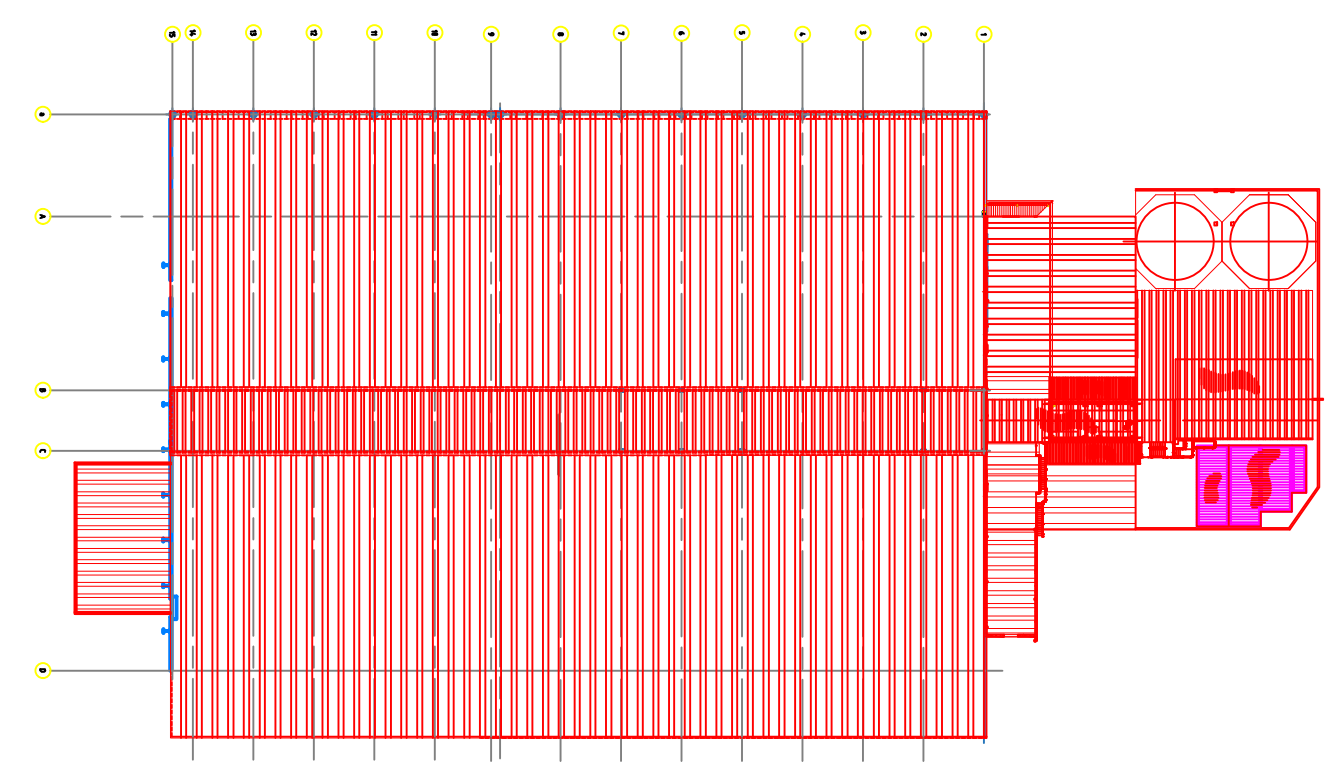
P.C.	DATE	SHOALHAVEN STARCHES.		SHT SIZE
CHKD JS	25/08/20	NORTH PACKER MOD 21.		A3
APPD	DATE	SECTIONAL ELEVATIONS.		REV.
	SCALE	PROJECT No.	DWG No.	P02
	1:600	7323-020	MN7323-020	



PLAN VIEW AT
AROUND 5.20 A.H.D.



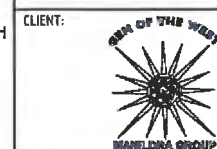
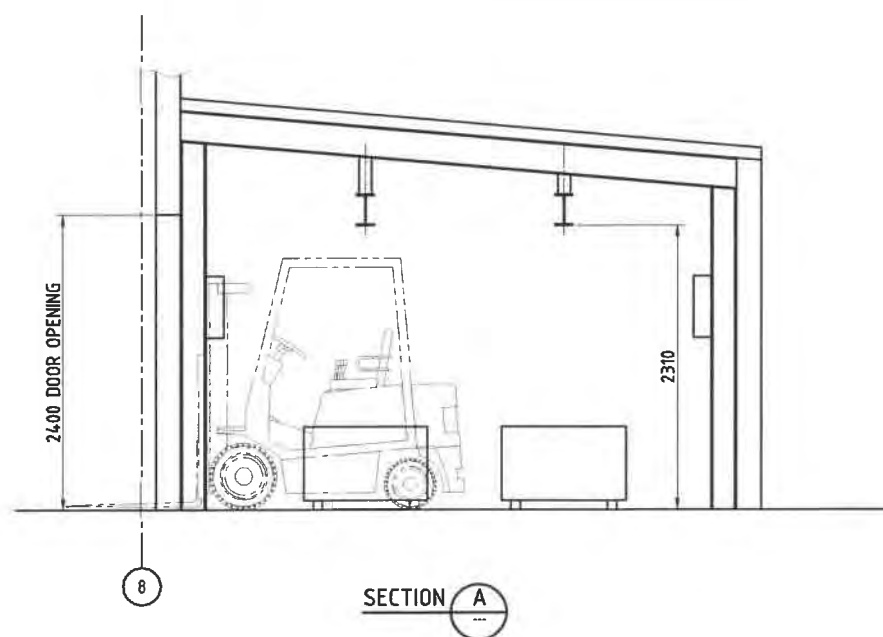
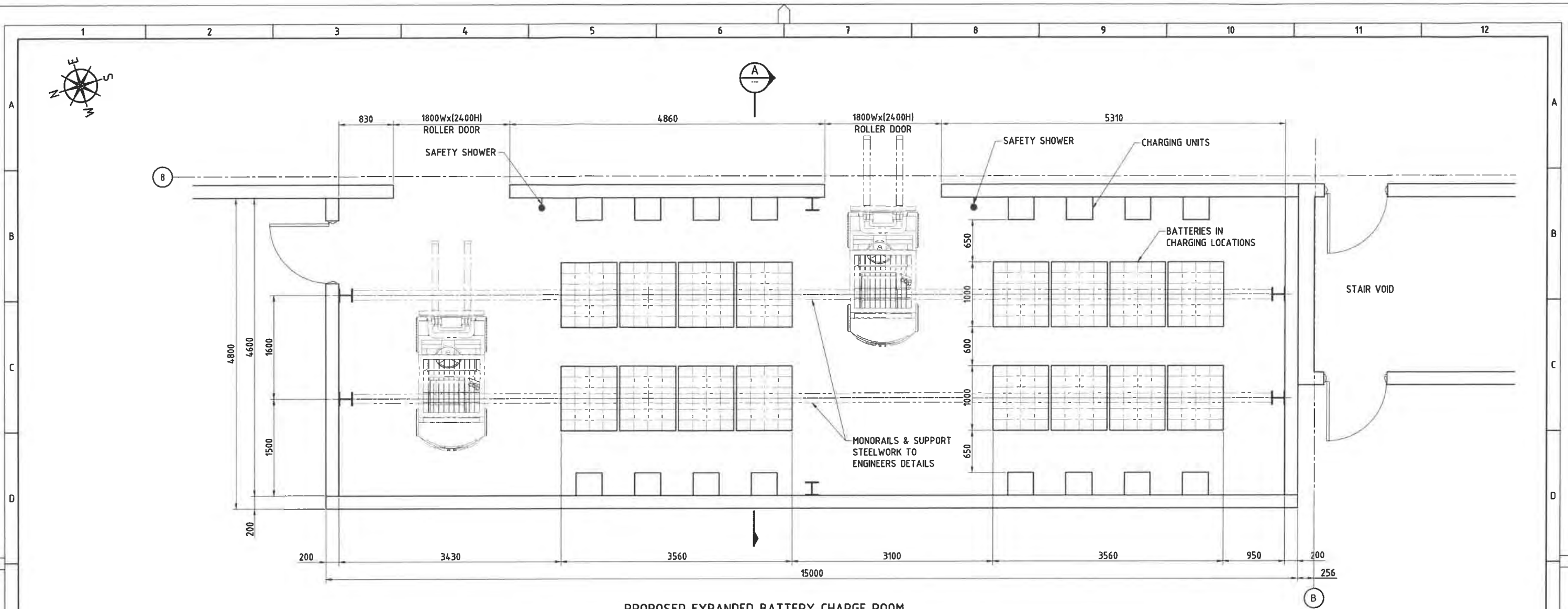
PLAN VIEW AT
AROUND 12.20 A.H.D.



ROOF PLAN.

							Commitment to Excellence  MANILDRA GROUP 100% AUSTRALIAN	P.C.			SHOALHAVEN STARCHES.			SHT SIZE																	
								CHKD GM	DATE 25/08/20	DWG TITLE NORTH PACKER MOD 21. PACKAGING/WAREHOUSE BUILDING PLAN VIEWS.			A3																		
								APPD	DATE				REV.																		
									SCALE 1:1000	PROJECT No. 7117WAE2	DWG No. MN7323-021	P01																			
P11	ALL	First drawn.		P.C.	23/3/22	D.W.		PC Drafting 0439 436508 10/200																							
REV	ZONE	DETAILS			DRN	DATE	CHKD	APPD																							
		1			2			3			4			5			6			7			8			9			10		

MOD 21.		PROJECT No. 7323
NORTH PACKER MODIFICATIONS TO APPROVAL. NITROGEN GENERATOR. INDIRECT COOKING. FERMENTERS 18 & 19. BUFFER TANK.		25/03/22
Drawing No.	REV.	
MN7323-000	P21	SITE ELEVATIONS.
MN7323-001	P18	DA SITE PLAN.
MN7323-002	P24	SITE PLAN.
MN7323-003	P19	PACKAGING WAREHOUSE BUILDING.
MN7323-004	P13	CAR PARK.
MN7323-005	P16	PRODUCT SILOS.
MN7323-006	P12	TRANSFER LINES GANTRY ELEVATION.
MN7323-007	P11	THIS DRAWING REMOVED FROM PROPOSAL.
MN7323-008	P10	PIPE GANTRIES.
MN7323-009	P11	PIPE GANTRIES SITE PLAN.
MN7323-010	P10	RAIL TUNNEL.
MN7323-011	P11	LOADER MAINTENANCE BUILDING.
MN7323-012	P05	NITROGEN GENERATOR.SITE PLAN.
MN7323-013	P05	NITROGEN GENERATOR.ELEVATIONS.
MN7323-014	P08	INDIRECT COOKING GA.
MN7323-015	P08	INDIRECT COOKING SITE PLAN.
MN7323-016	P03	FERMENTERS SITE PLAN.
MN7323-017	P03	FERMENTERS EASTERN ELEVATION.
MN7323-018	P03	FERMENTERS NORTHERN ELEVATION.
MN7323-019	P04	CAR PARK SITE PLAN.
MN7323-020	P02	SECTIONAL ELEVATION.
MN7323-021	P01	PACKER BUILDING PLAN VIEWS.
MN6851-001	P09	BUFFER TANK SITE PLAN.
MN6851-002	P06	BUFFER TANK PLAN VIEW.
MN6851-003	P04	BUFFER TANK DETAIL.
BUILDING DETAIL	-	BUILDING/OFFICE DETAIL.
GANTRY.	-	GANTRY/PIPE DETAIL.
TRUCK LOAD OUT	H	TRUCK LOAD OUT AREA DETAIL.
19042-DE-004	D	BATTERY ROOM.



REV	DESCRIPTION	DATE	DRN	CKD	REV	DESCRIPTION	DATE	DRN	CKD
					D	SHEET 2 ADDED ELEVATIONS ADDED	30.11.21	AJ	DW
					C	SHEET 1 REMOVED	14.10.21	AJ	DW
					B	SECTION VIEW ADDED	1.10.21	AJ	DW



DRAWN BY:	A.JACKMAN	17.09.2021
APPROVED BY:	A.REID	17.09.2021
SCALE:	1:30	
FOXENG No:	FOX19042	

DRAWING TITLE:
**MANILDRA SHOALHAVEN STARCHES
 PACKING BUILDING
 36A BOLONG RD, BOMADERRY
 BATTERY ROOM
 ARRANGMENT**

DRAWING No.	19042-DE-004
SHEET No.	SHEET 1 OF 1
SIZE:	A1
REV:	D