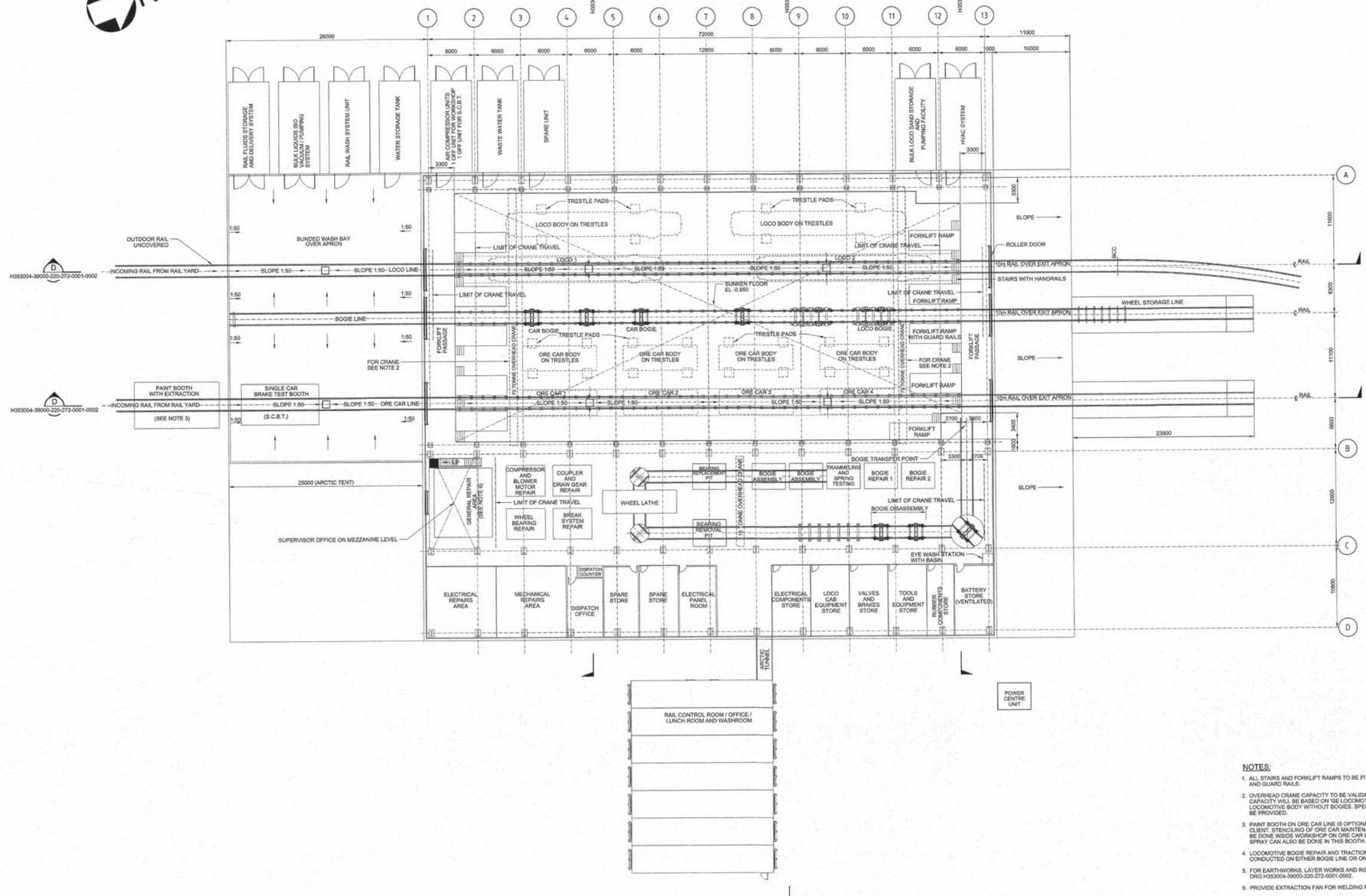


Attachment 11.6

Milne Port Rail Workshop Drawings

(6 Pages)



RAIL WORKSHOP FLOOR PLAN
SCALE 1:200

- NOTES:**
1. ALL STAIRS AND FORK LIFT RAMPS TO BE FITTED WITH HANDRAILS AND GUARD RAILS.
 2. OVERHEAD CRANE CAPACITY TO BE VALIDATED BY CONTRACTOR. CAPACITY WILL BE BASED ON THE LOCOMOTIVE WET WEIGHT FOR LOCOMOTIVE BODY WITHOUT BOGIES. SPECIFICATION SHEET WILL BE PROVIDED.
 3. PAINT BOOTH ON ORE CAR LINE IS OPTIONAL. IF NOT REQUIRED BY CLIENT, STENCILING OF ORE CAR MAINTENANCE CYCLES SHALL BE DONE INSIDE WORKSHOP ON ORE CAR LINE. LOCOMOTIVE BODY SPRAY CAN ALSO BE DONE IN THIS BOOTH.
 4. LOCOMOTIVE BOGIE REPAIR AND TRACTION MOTOR CHANGE TO BE CONDUCTED ON EITHER BOGIE LINE OR ON LOCO LINE.
 5. FOR EARTHWORKS, LAYER WORKS AND INSULATION REFER TO DRG H353004-39000-220-272-0001-0002.
 6. PROVIDE EXTRACTION FAN FOR WELDING FUMES.
 7. PROVIDE FOR WELDING RECEPTALS AND POWER HYDRANTS FOR 347V AND 600V HOOKUPS IN DETAILED DESIGN.
 8. TRESTLE PAD POSITIONS ARE INDICATED ON THE LOCOMOTIVE AND ORE CAR SPECIFICATION SHEETS, SUPPLIED WITH SCOPE OF WORK SPECIFICATION.
 9. EXACT POSITION TO BE DEFINED BY CONTRACTOR TX004 FOR FIBRE OPTIC CABLE CONNECTION. CONTRACTOR C0001 TO LEAVE 50m COILED FIBRE OPTIC CABLE AT THE POWER CENTRE UNIT FOR TX004 TO TERMINATE.
 10. EXACT POSITION FOR POWER CENTRE UNIT TO BE DETERMINED BY TX004 CONTRACTOR.

DRAWING No.	DRAWING TITLE
H3530004-39000-220-272-0001-0005	RAIL WORKSHOP - COMPRESSED AIR AND LOCO SAND - PIPING LAYOUT
H3530004-39000-220-272-0001-0006	RAIL WORKSHOP - DISTILLED WATER, OIL AND GREASE - PIPING LAYOUT
H3530004-39000-220-272-0001-0003	RAIL WORKSHOP - DRAINAGE AND PIPING
H3530004-39000-220-272-0001-0002	RAIL WORKSHOP - SECTIONS AND DETAILS

NOT FOR CONSTRUCTION

No.	DESCRIPTION	REVISIONS
2	APPROVED FOR BID	
1A	CLIENT REVIEW	
1	APPROVED FOR BID	
0	APPROVED FOR BID	

BY	CHKD	DATE	ROLE	NAME	SIGNATURE	DATE
GP	CG	2018/11/05	LEAD DISC. ENG.	P. BHULLA		
GP	CG	2018/10/20	AREA LEAD	F. VAN BULON		
EB	RG	2017/11/23	ENG. MANAGER	D. STANDER		
PS	JC	2017/02/07	AREA MANAGER	F. PITTMAN		

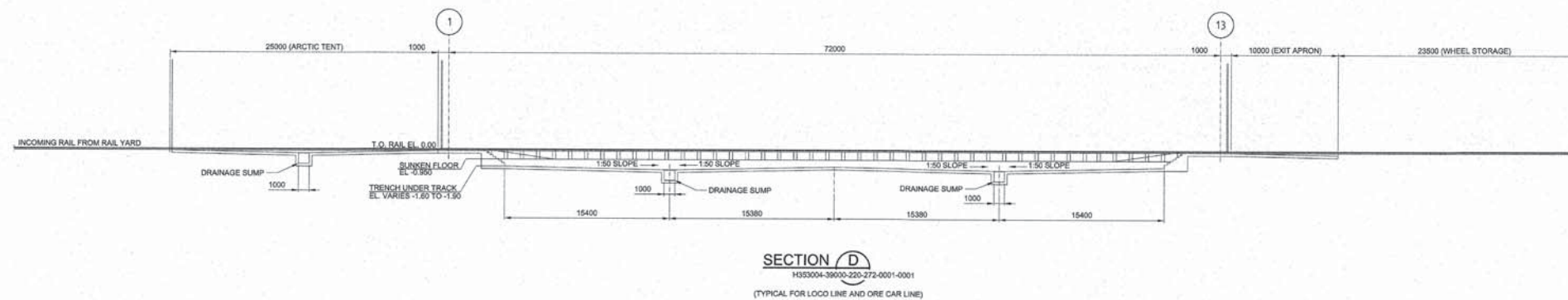
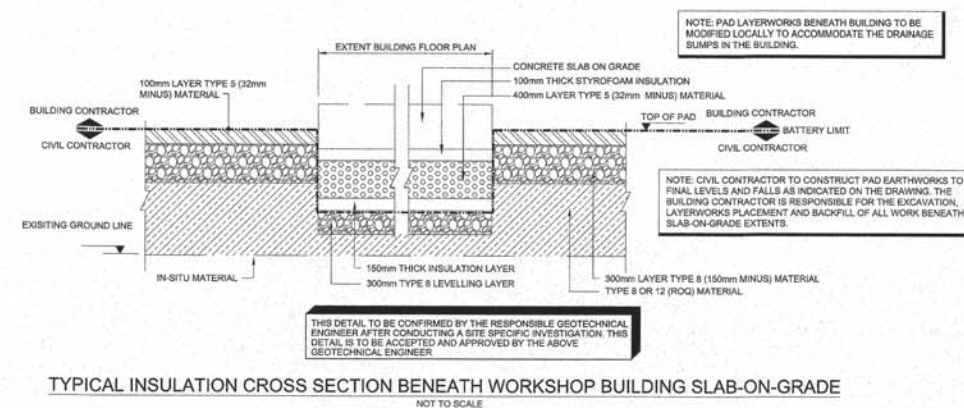
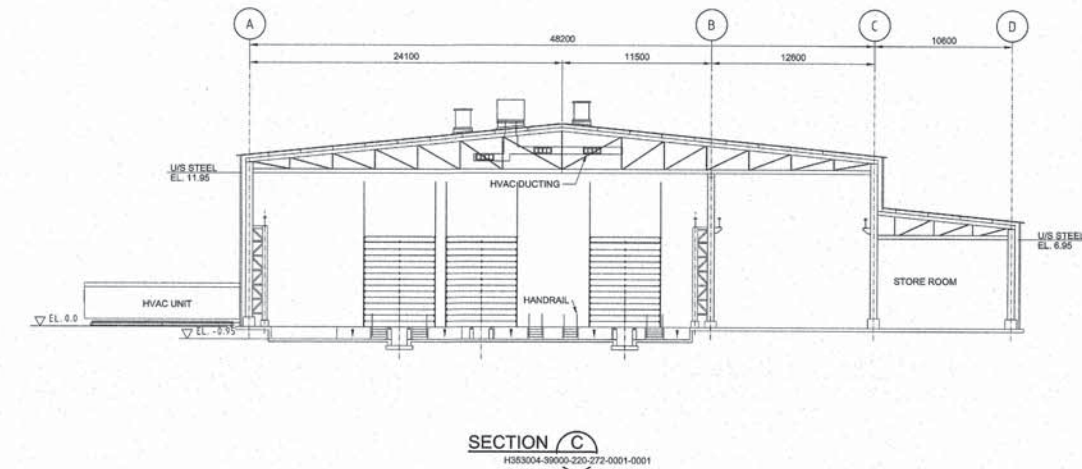
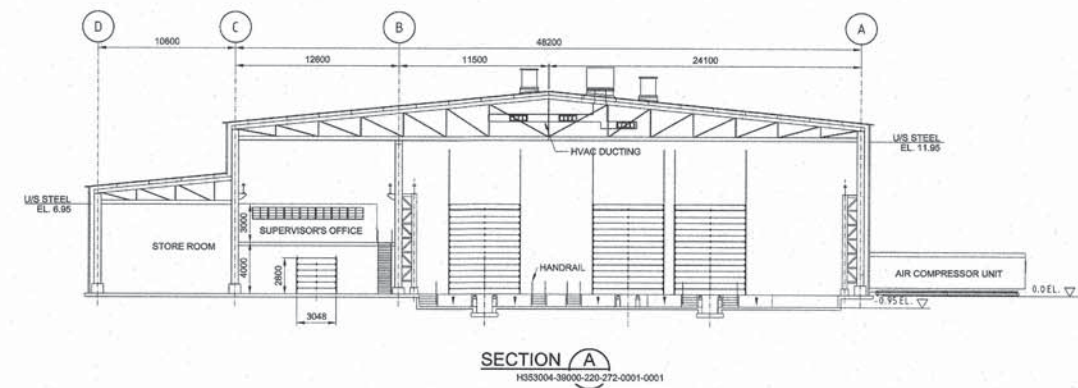
HATCH

Baffinland

MARY RIVER EXPANSION PROJECT
MILNE PORT

RAIL WORKSHOP
GENERAL ARRANGEMENT
FLOOR LAYOUT

DWG. No. H353004-39000-220-272-0001-0001
SCALE 1:200
REV 2
SHEET SIZE E



- NOTES:**
1. ALL STAIRS AND FORKLIFT RAMPS TO BE FITTED WITH HANDRAILS AND GUARD RAILS.
 2. OVERHEAD CRANE CAPACITY TO BE VALIDATED BY CONTRACTOR. CAPACITY WILL BE BASED ON G.W. LOCOMOTIVE WET WEIGHT FOR LOCOMOTIVE BODY WITHOUT BOGIES. SPECIFICATION SHEET WILL BE PROVIDED.
 3. HVAC SYSTEM TO BE DESIGNED BY SPECIALIST. HVAC ON DRAWING ONLY ILLUSTRATIVE.
 4. ALL STRUCTURAL WORK TO ENGINEER'S DESIGN.
 5. GEOTECHNICAL ENGINEER TO INVESTIGATE AND ACCEPT FOUNDING CONDITIONS AND DESIGN FOR FOUNDING. FOUNDING LAYERWORKS AND/OR DRAINAGE REQUIREMENTS AS WELL.

F		
H3630004-30000-220-272-0001-0005	RAIL WORKSHOP - COMPRESSED AIR AND LOCO SAND - PIPING LAYOUT	
H3630004-30000-220-272-0001-0004	RAIL WORKSHOP - DISTILLED WATER, OIL AND GREASE - PIPING LAYOUT	
H3630004-30000-220-272-0001-0003	RAIL WORKSHOP - DRAINAGE AND PIPING	
H3630004-30000-220-272-0001-0001	RAIL WORKSHOP - FLOOR LAYOUT	
DRAWING No.		DRAWING TITLE
	REFERENCE DRAWINGS	

NOT FOR CONSTRUCTION

REG. PROFESSIONAL

0	APPROVED FOR BID
A	CLIENT REVIEW
No.	DESCRIPTION
	REVISION

THIS DRAWING WAS PREPARED BY HATCH FOR THE EXCLUSIVE USE OF SANFORD AND BARNES OF POLAND AND ITS USE IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT BETWEEN HATCH AND THE CLIENT. INCLUDING ANY LIMITATIONS ON LIABILITY CONTAINED THEREIN. THIS DRAWING AND ITS CONTENTS REMAIN THE INTELLECTUAL PROPERTY OF HATCH SUBJECT TO CLIENTS PAYMENT-FEE, NONCANCELLATION, PERFORMANCE, AND NON-EXCLUSIVE LICENSE TO USE. HATCH DOES NOT WARRANT OR GUARANTEE FOR PURCHASER OF THE PROJECT, INCLUDING CONSTRUCTION, COMPLETION, MAINTENANCE, EXTENSION, REINSTATEMENT AND REPAIR OF THE PROJECT. THIS DRAWING AND THE INFORMATION CONTAINED HEREIN SHALL BE TREATED AS CONFIDENTIAL FOR ALL OTHER PURPOSES AND SHALL NOT BE MODIFIED WITHOUT THE WRITTEN CONSENT OF HATCH.

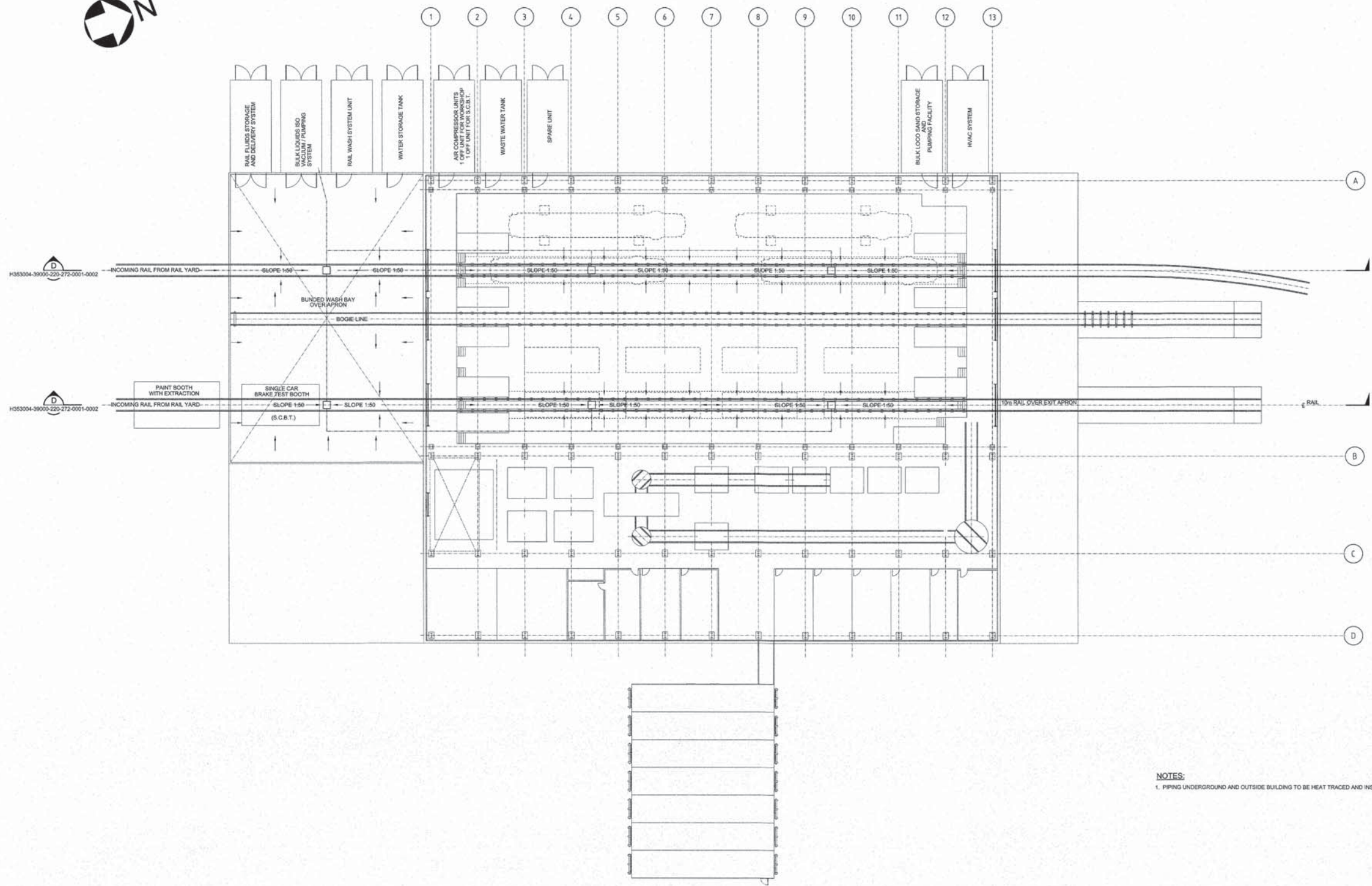
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DRAFTSPERSON DESIGNER CHECKER DESIGN COORD. RESP. ENG. LEAD DISC. ENG. AREA LEAD ENG. MANAGER AREA MANAGER ROLE	G MEADES G MEADES C GOMBA B VORSTER C GOMBA P RIALA F VAN BIJON D STANGER F PITTMAN NAME	NR        SIGNATURE	21/06/2017 01/11/2017 07/11/2017 07/11/2017 12/11/2017 09/11/2017 DATE
DRAWING APPROVAL STATUS: _____ Approved for Plot			

	 Baffinland
8	MARY RIVER EXPANSION PROJECT

RAIL WORKSHOP GENERAL ARRANGEMENT SECTIONS AND DETAILS

SCALE 1:200 OR AS NOTED	DWG. No. H353004-39000-220-272-0001-0002	REV 0
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FILES



RAIL WORKSHOP FLOOR PLAN
SCALE 1:200

NOTES:
1. PIPING UNDERGROUND AND OUTSIDE BUILDING TO BE HEAT TRACED AND INSULATED.

DRAWING No.	DRAWING TITLE
H353004-39000-220-272-0001-0005	RAIL WORKSHOP - COMPRESSED AIR AND LOCO SAND - PIPING LAYOUT
H353004-39000-220-272-0001-0004	RAIL WORKSHOP - DISTILLED WATER, OIL AND GREASE - PIPING LAYOUT
H353004-39000-220-272-0001-0002	RAIL WORKSHOP - SECTIONS AND DETAILS
H353004-39000-220-272-0001-0001	RAIL WORKSHOP - FLOOR LAYOUT

NOT FOR CONSTRUCTION

0 APPROVED FOR BID
A CLIENT REVIEW

REG. PROFESSIONAL
No.

BY CHK'D DATE

DESCRIPTION
REVISIONS

HATCH

DRAFTSPERSON	G MEADES	NR	22/10/2019
DESIGNER	G MEADES	NR	22/10/2019
CHECKER	C GOMBA	07/11/2019	
DESIGN COORD.	B VORSTER	07/11/2019	
RESP. ENG.	C GOMBA	17/11/2019	
LEAD DISC. ENG.	L GRESSE	21/11/2019	
AREA LEAD	F VAN BILJON	21/11/2019	
ENG. MANAGER	D STANGER	12/11/2019	
AREA MANAGER	F PITTMAN	12/11/2019	

DRAWING APPROVAL STATUS: Approved for Bid

Baffinland

MARY RIVER EXPANSION PROJECT
MILNE PORT

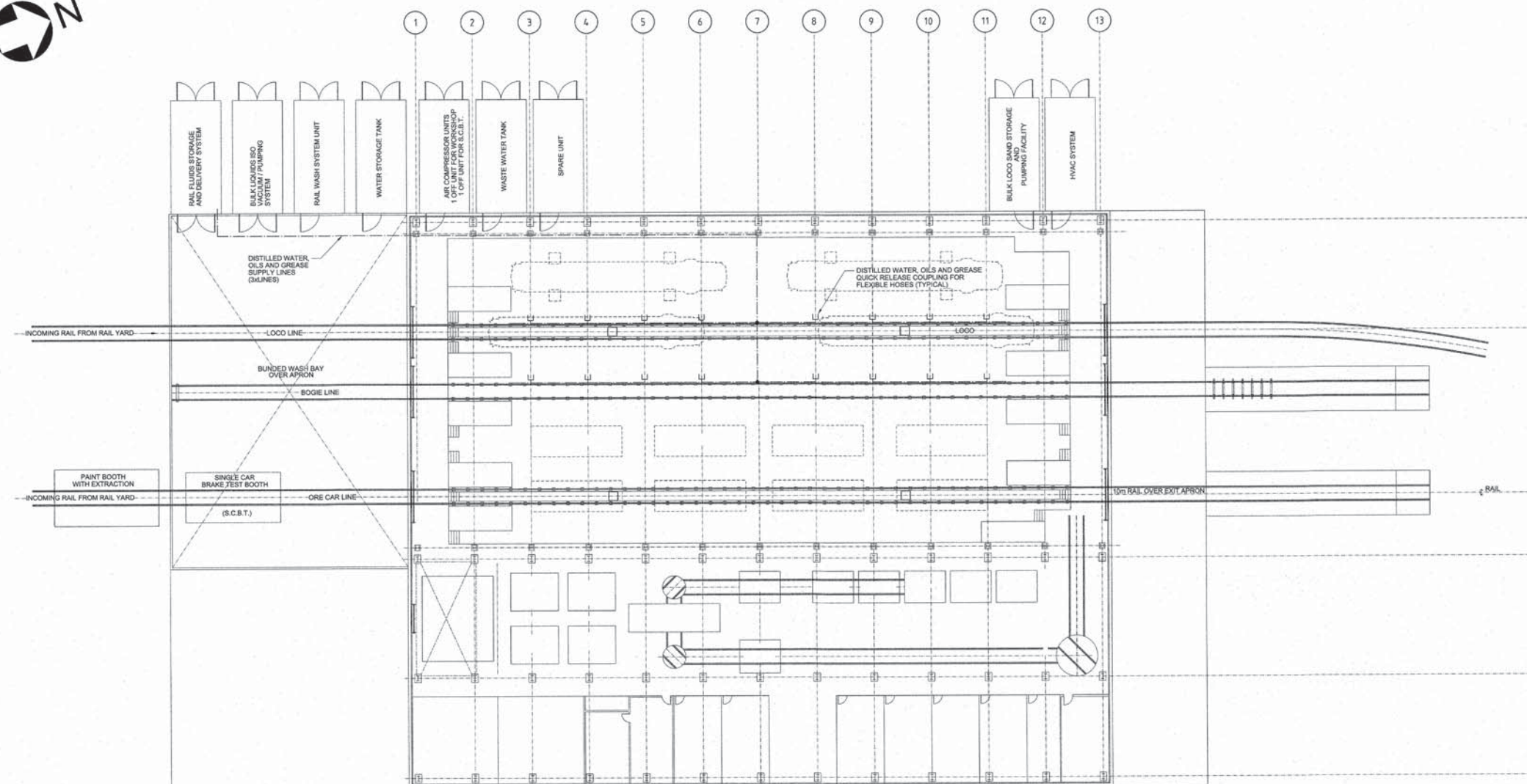
RAIL WORKSHOP
GENERAL ARRANGEMENT
DRAINAGE AND PIPING

SCALE
1:200
OR AS NOTED

DWG. No.
H353004-39000-220-272-0001-0003

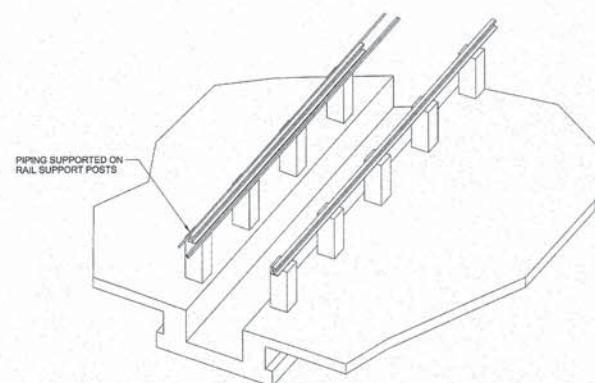
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NOTES:

1. PIPING UNDERGROUND AND OUTSIDE BUILDING TO BE HEAT TRACED AND INSULATED



PROPOSED PIPE SUPPORT
SKETCH



RAIL WORKSHOP FLOOR PLAN

NOT FOR CONSTRUCTION

HATCH

Baffinland

MARY RIVER EXPANSION PROJECT
MILNE PORT

RAIL WORKSHOP
DISTILLED WATER, OIL AND GREASE
PIPING LAYOUT

DWG. No.

H3530004-36000-220-272-0001-0005	RAIL WORKSHOP - COMPRESSED AIR AND LOCO SAND - PIPING LAYOUT
H3530004-36000-220-272-0001-0003	RAIL WORKSHOP - DRAINAGE AND PIPING
H3530004-36000-220-272-0001-0002	RAIL WORKSHOP - SECTIONS AND DETAILS
H3530004-36000-220-272-0001-0001	RAIL WORKSHOP - FLOOR LAYOUT
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REFERENCE DRAWINGS

REG. PROFESSIONAL

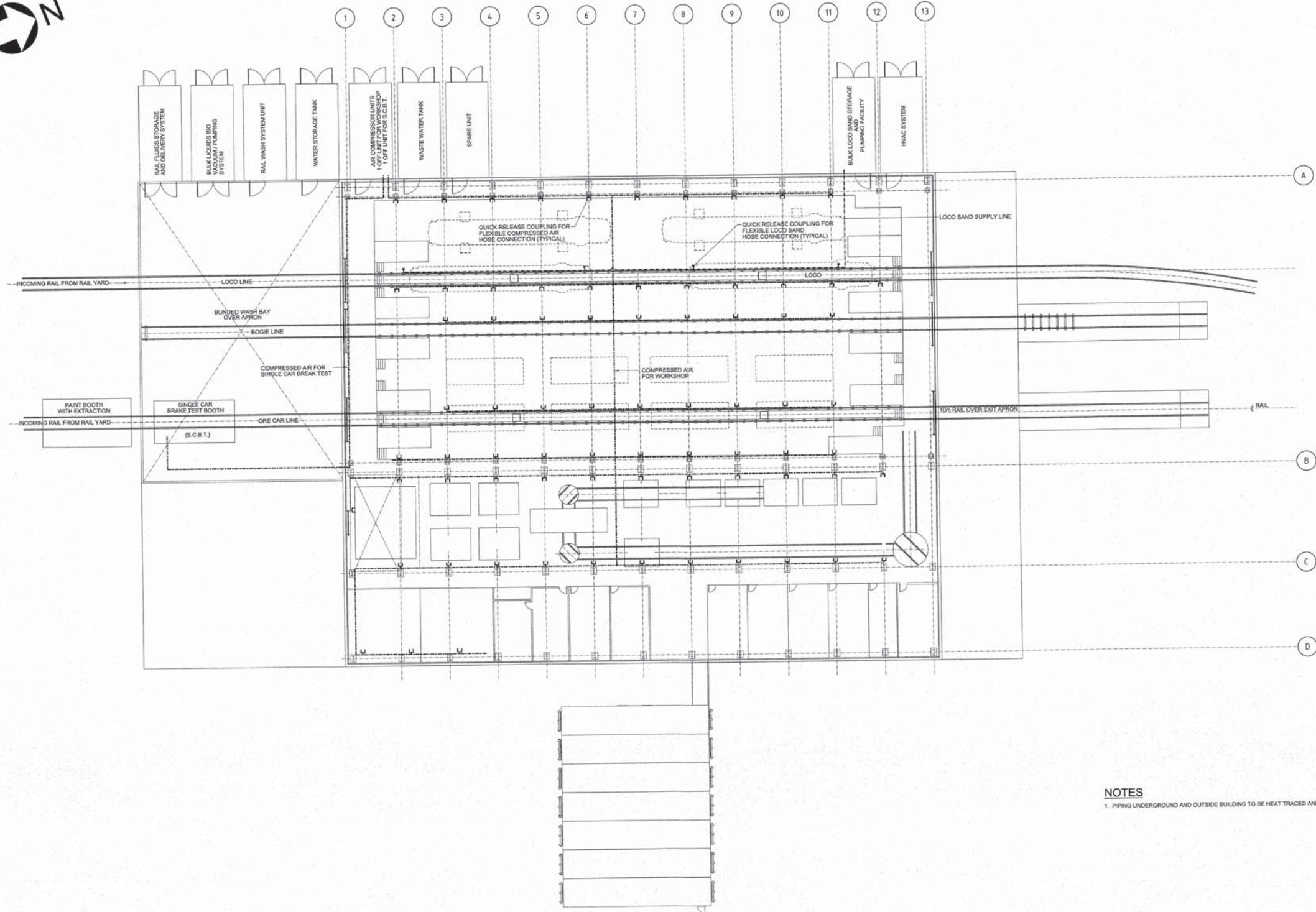
REVISIONS

DRAWING APPROVAL STATUS:	Approved for Bid
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1:200
OR AS NOTED

1-0004

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	\$OATES	



RAIL WORKSHOP FLOOR PLAN

NOTES
1. PIPING UNDERGROUND AND OUTSIDE BUILDING TO BE HEAT TRACED AND INSULATED.

DRAWING No.	DRAWING TITLE
H3530004-39000-220-272-0001-0004	RAIL WORKSHOP - DISTILLED WATER, OIL AND GREASE - PIPING LAYOUT
H3530004-39000-220-272-0001-0003	RAIL WORKSHOP - DRAINAGE AND PIPING
H3530004-39000-220-272-0001-0002	RAIL WORKSHOP - SECTIONS AND DETAILS
H3530004-39000-220-272-0001-0001	RAIL WORKSHOP - FLOOR LAYOUT

NOT FOR CONSTRUCTION

No.	DESCRIPTION	REVISIONS
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A	CLIENT REVIEW	

BY	CHKD	DATE
GPM	CG	2018/11/05
GPM	CG	2018/10/29

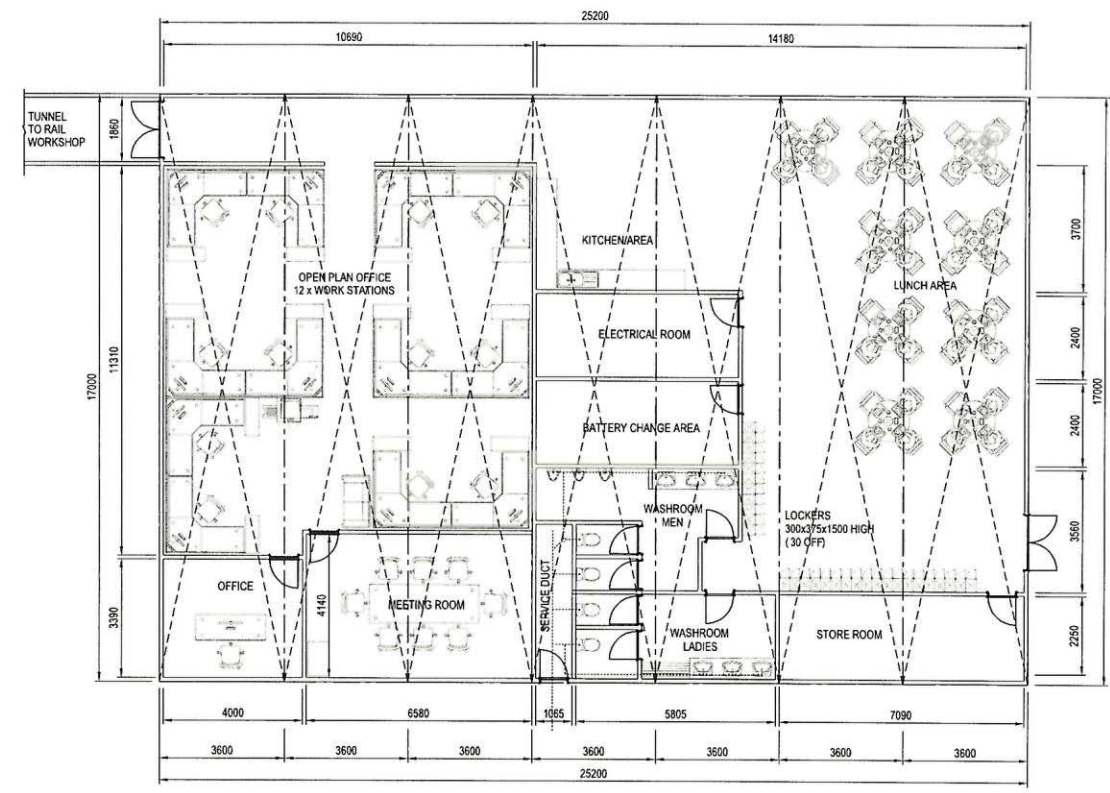
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DESIGNER	GP MEADES		NR 23/09/2018
CHECKER	C GOMBA		21/11/2018
DESIGN COORD.	B VORSTER		07/11/2018
RESP. ENG.	C GOMBA		07/11/2018
LEAD DISC. ENG.	L GRESSE		24/11/18
AREA LEAD	F VAN BELJON		07/11/18
ENG. MANAGER	D STANGER		07/11/18
AREA MANAGER	F PITTMAN		07/11/2018

DRAWING APPROVAL STATUS: Approved for Bid

HATCH	
MARY RIVER EXPANSION PROJECT MILNE PORT	
RAIL WORKSHOP COMPRESSED AIR AND LOCO SAND PIPING LAYOUT	
SCALE: 1:200 OR AS NOTED	DWG. No: H353004-39000-220-272-0001-0005
REV 0	SHEET SIZE: F

REVISIONS
SHEET SIZE: F

DWG. No. H353004-39000-220-272-0002-0001



PLAN
SCALE 1:100

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DRAFTSPERSON A VAN NIEKERK NR 18/11/17		BAFFINLAND IRON MINES LP	
DESIGNER A AQUIL NR 20/11/2017		MARY RIVER PROJECT	
CHECKER R GOOSEN 20/11/2017		MILNE PORT RAIL MAINTENANCE WORKSHOP	
DESIGN COORD. 20/11/2017		RAIL OFFICE TX003	
RESP. ENG. 20/11/2017		FLOOR LAYOUT	
LEAD DISC. ENG. 20/11/2017		SCALE 1:100	
AREA MANAGER F VAN BILJON 20/11/2017		DWG. No. H353004-39000-220-272-0002-0001	
PROJ. MANAGER 20/11/2017		REV 0	
CLIENT FAY PITTMAN 20/11/2017		SHEET SIZE: D	
DRAWING APPROVAL STATUS: Not Started			

NAME	
SIGNATURE	
ENG REG NUMBER	
REVISION DATE	
ORIGINAL DATE	
REG. PROFESSIONAL	

0	APPROVED FOR BID.	AN	AA	20/11/2017
No.	DESCRIPTION	BY	CHK'D	DATE
REVISIONS				

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DRAWING No. H353004-00000-224-272-0031-0001		DRAWING TITLE PORT YARD LINES AND TRIANGLE					
REFERENCE DRAWINGS							