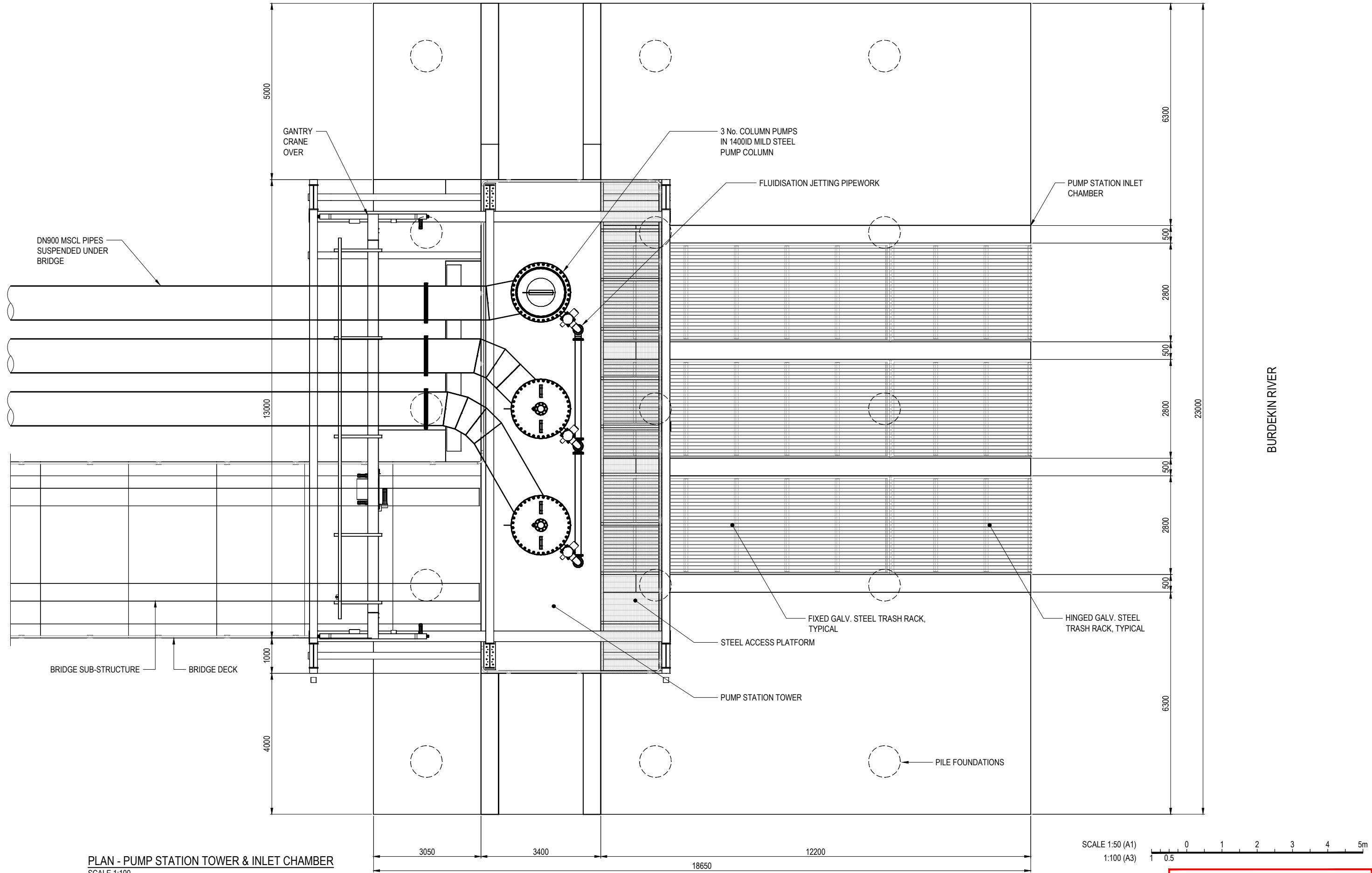




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A	09.05.19				PRELIMINARY ISSUE		

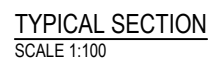
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444 Flinders St
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AUSTRALIA

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Web: www.jacobs.com

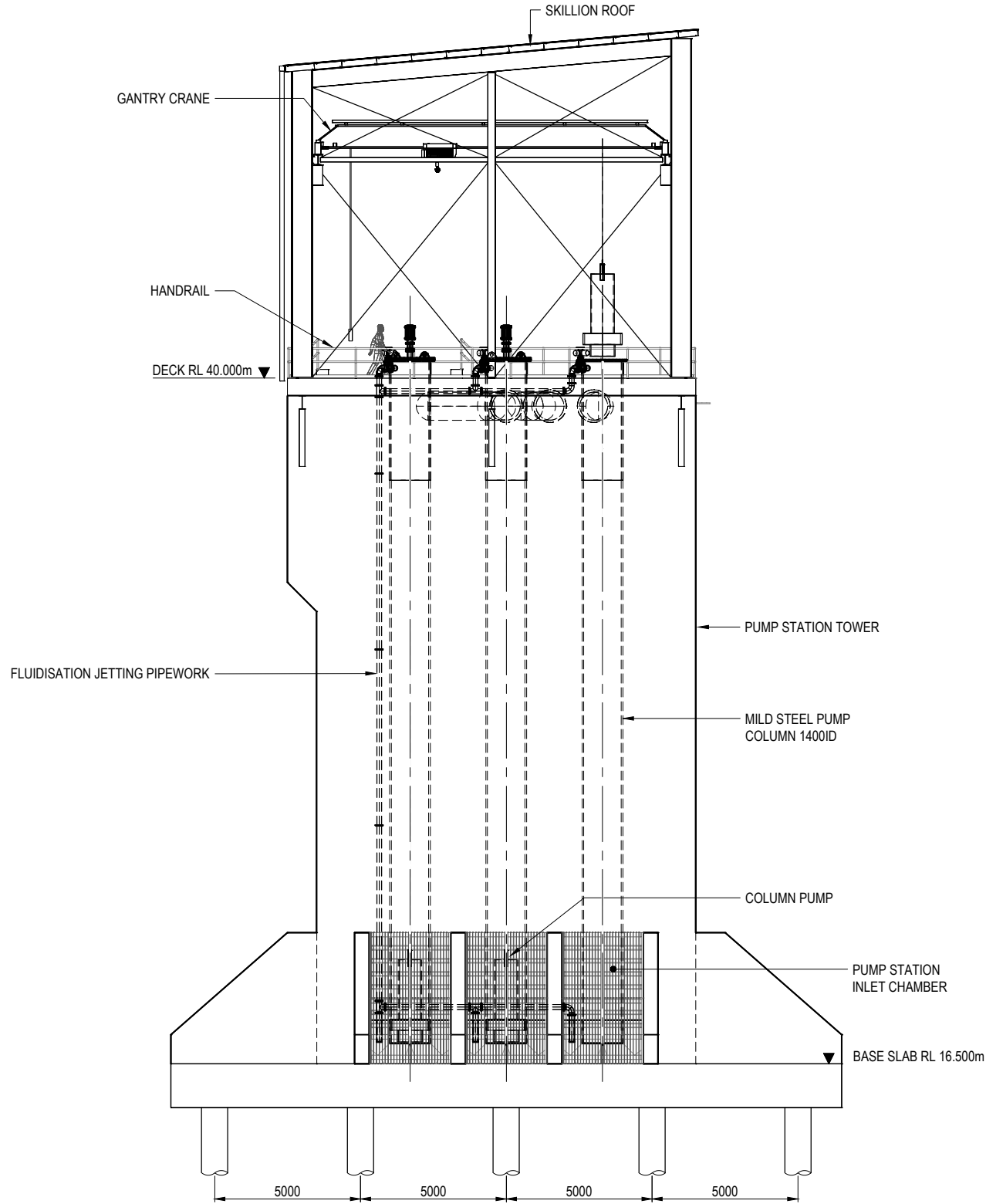
CLIENT DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES			
PROJECT HAUGHTON STAGE 2 PIPELINE			
DRAWN CBB	DRAWING CHECK	REVIEWED	APPROVED
DESIGNED	DESIGN REVIEW	DATE	DATE

TITLE CLARE PUMP STATIONS RIVER PUMP STATION PLAN - PUMP STATION TOWER AND CHAMBER			
SCALE AS SHOWN	DRAWING No. IH175200-0000-CI-DRG-2101	REV B	



CONCEPT DESIGN ISSUE

[illegible]



ELEVATION
SCALE 1:100

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

0 2 4 6 8 10m
2 1

CONCEPT DESIGN ISSUE

REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE
B	28.05.19	CBB	MV	LH	CONCEPT DESIGN ISSUE		
A	09.05.19				PRELIMINARY ISSUE		

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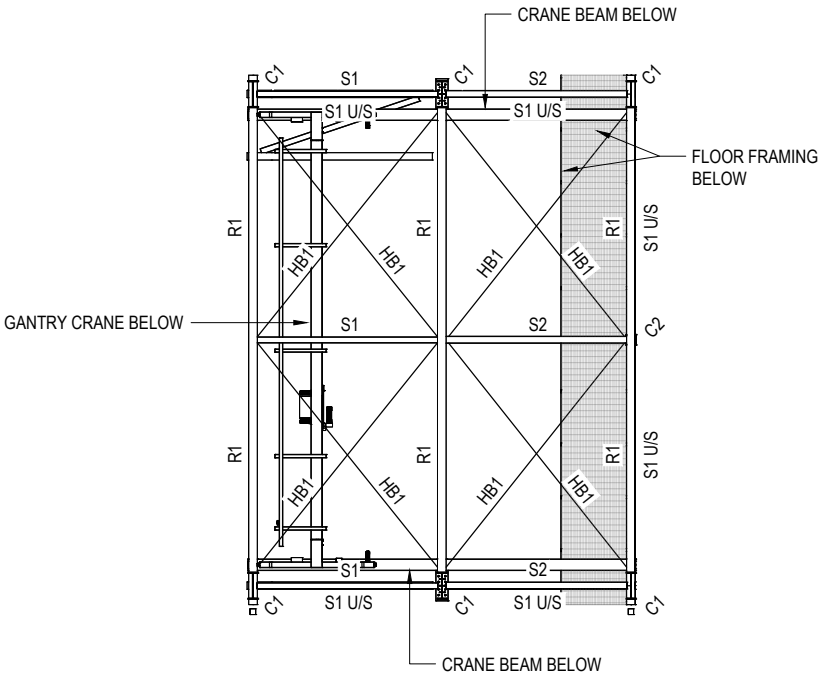
ABN 37 001 024 095 and ACN 001 024 095
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CLIENT DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES			
PROJECT HAUGHTON STAGE 2 PIPELINE			
DRAWN CBB	DRAWING CHECK	REVIEWED	APPROVED
DESIGNED	DESIGN REVIEW	DATE	DATE

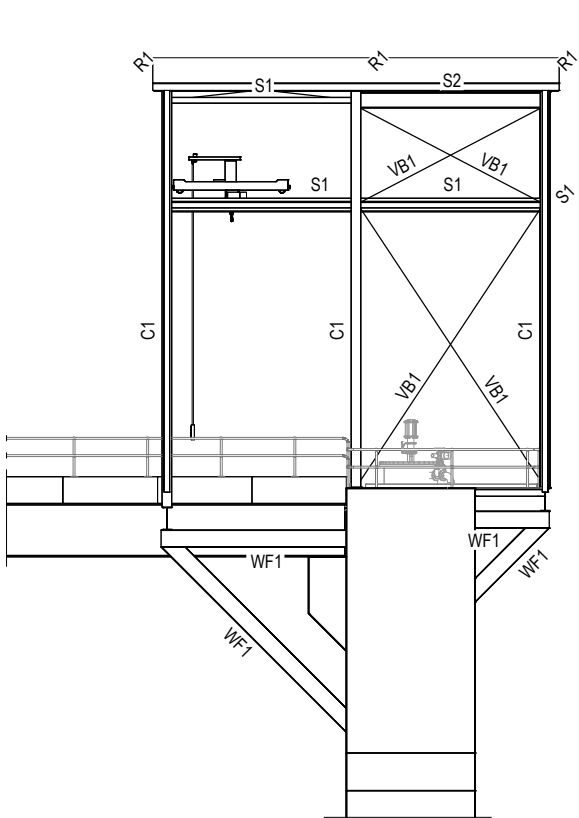
TITLE CLARE PUMP STATIONS RIVER PUMP STATION ELEVATION			REV B
SCALE AS SHOWN	DRAWING No. IH175200-0000-CI-DRG-2103		



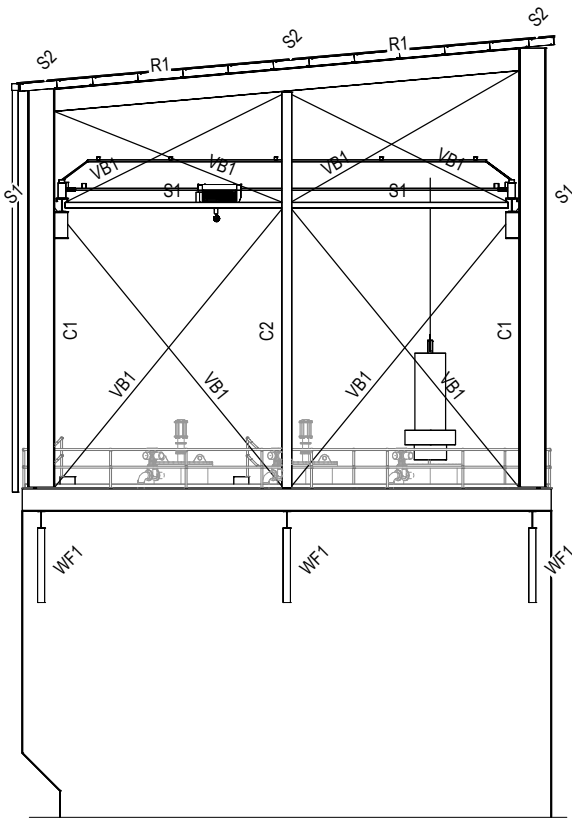
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PROJECT HAUGHTON STAGE 2 PIPELINE							
DRAWN CBB		DRAWING CHECK		REVIEWED		APPROVED	
DESIGNED		DESIGN REVIEW		DATE		DATE	
				SCALE AS SHOWN		DRAWING No IH175200-0000-CI-DRG-2104	
						REV B	



PLAN - STEEL MARKING
SCALE 1:100



ELEVATION - STEEL MARKING
SCALE 1:100

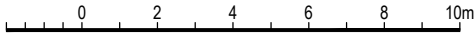


END ELEVATION - STEEL MARKING
SCALE 1:100

STEEL MEMBER SCHEDULE

MARK NUMBER	MEMBER	MEMBER SIZE
C1	COLUMN	700WB150
C2	COLUMN	250UC89.5
R1	ROOF BEAM	610UB101
S1	STRUT	150x9 SHS
S2	STRUT	410UB59.7
HB1	ROOF BRACING	90x6 EA
VB1	WALL BRACING	125x10 EA
WF1	WELDED FRAME	2x460UB82.1

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



CONCEPT DESIGN ISSUE

REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE
B	28.05.19	CBB	MV	LH	CONCEPT DESIGN ISSUE		
A	09.05.19				PRELIMINARY ISSUE		

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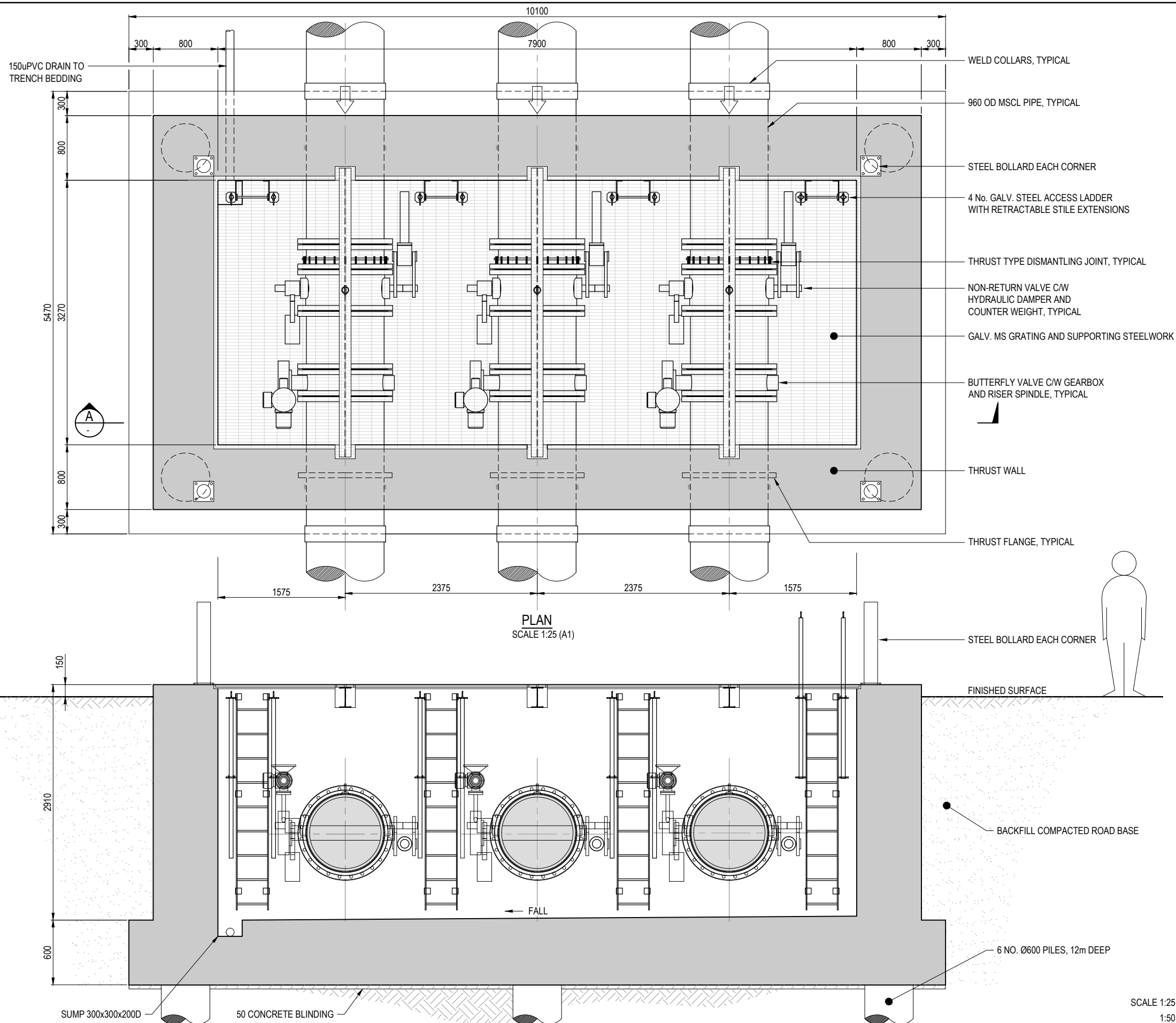
CLIENT	DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES
PROJECT	HAUGHTON STAGE 2 PIPELINE
DRAWN	CBB
DESIGNED	
DRAWING CHECK	
DESIGN REVIEW	
REVIEWED	
APPROVED	
DATE	

TITLE
CLARE PUMP STATIONS
RIVER PUMP STATION
STEEL MARKING GENERAL ARRANGEMENT

SCALE
AS SHOWN

DRAWING No
IH175200-0000-CI-DRG-2105

REV
B



NOTES

1. S40 GRADE CONCRETE FOR LIQUID RETAINING STRUCTURE.
2. ASSUMED GEOTECHNICAL PARAMETERS -
VERY STIFF TO HARD CLAY FOUNDING MATERIAL.
SKIN FRICTION = 50 KPa
BASE BEARING = 900 KPa
3. INDICATIVE PILE DETAILS -
0.6m DIAMETER
12m DEPTH
4. WALL REINFORCEMENT RATE 220 kg/m². (59.3 m³)
5. BASE SLAB REINFORCEMENT RATE 220 kg/m². (44.2 m³)
6. PILE REINFORCEMENT RATE 300 kg/m². (3.4 m³ EACH)

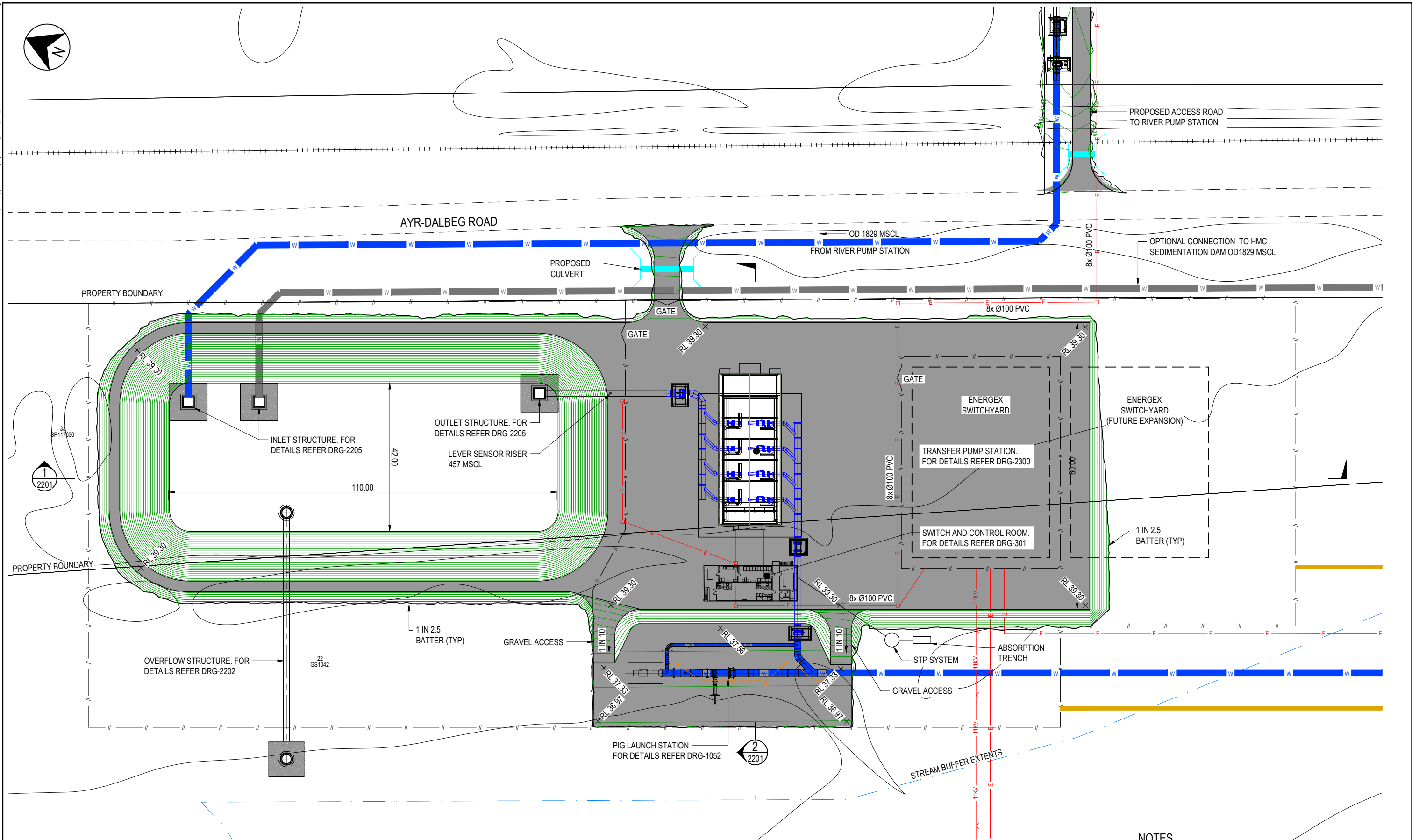
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B	28.05.19	CBB	MV	LH	CONCEPT DESIGN ISSUE		
A	09.05.19				PRELIMINARY ISSUE		

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CLIENT	DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES
PROJECT	HAUGHTON STAGE 2 PIPELINE
DRAWN	CBB
DESIGNED	DESIGN REVIEW
REVIEWED	DATE
APPROVED	DATE

TITLE	CLARE PUMP STATIONS RIVER PUMP STATION VALVE PIT DETAILS
SCALE	AS SHOWN
DRAWING No	IH175200-0000-CI-DRG-2106
REV	B



NOTES
1. FOR GENERAL NOTES AND LEGEND REFER DRG-2002.

SCALE 1:500 (A1)
1:1000 (A3)

CONCEPT DESIGN ISSUE

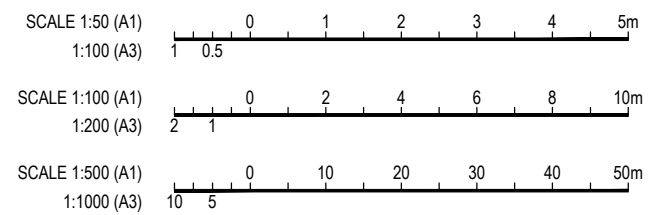
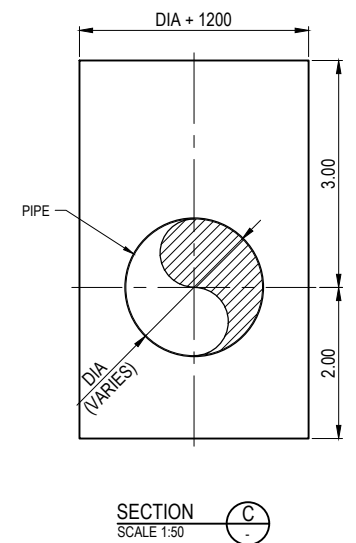
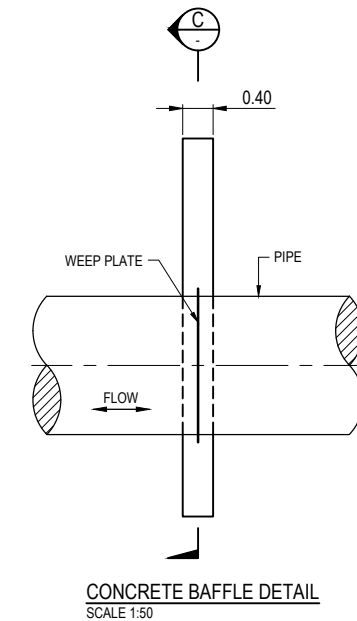
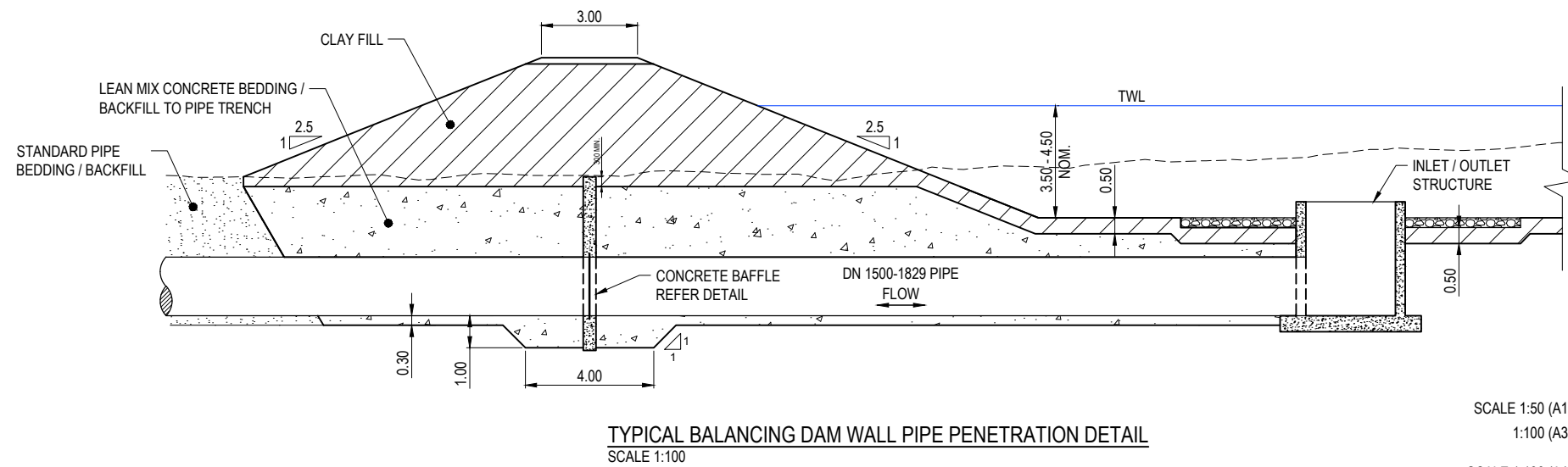
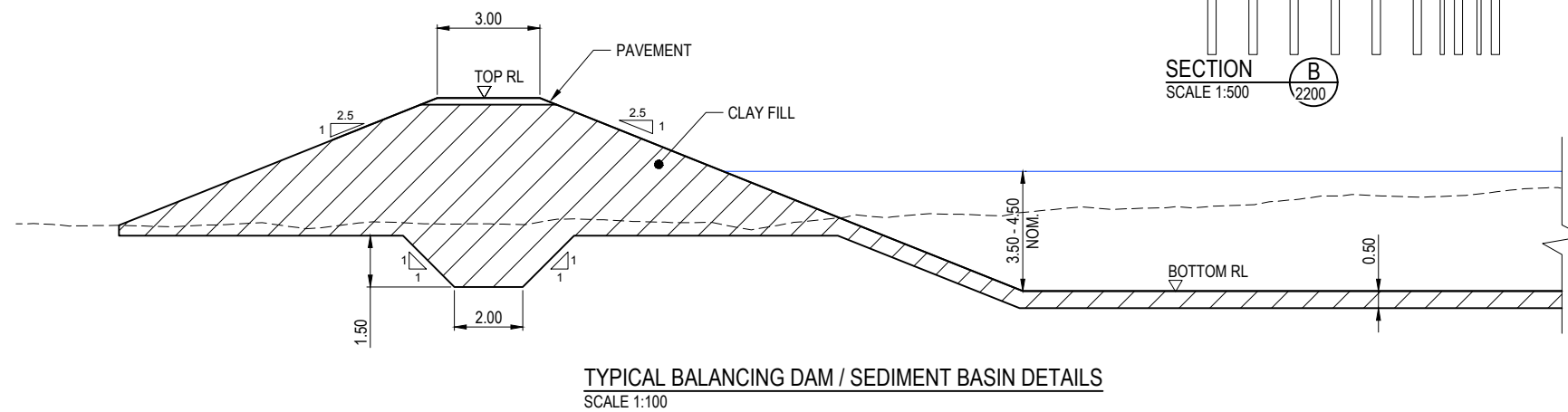
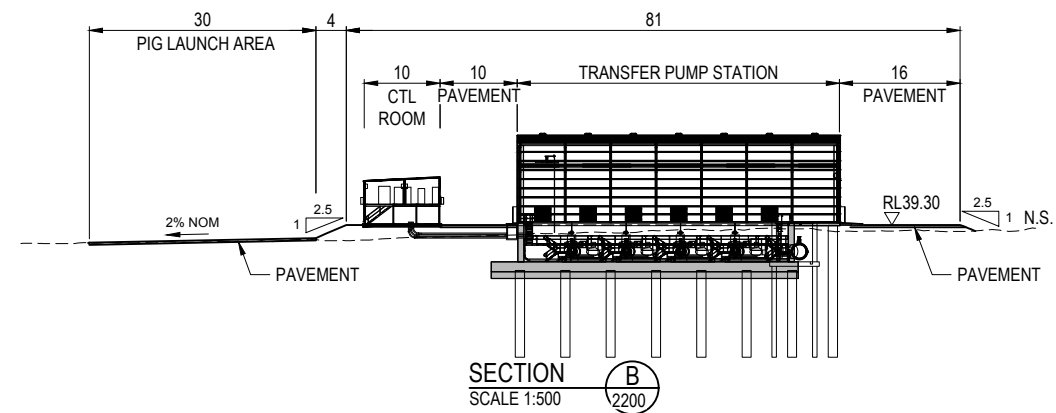
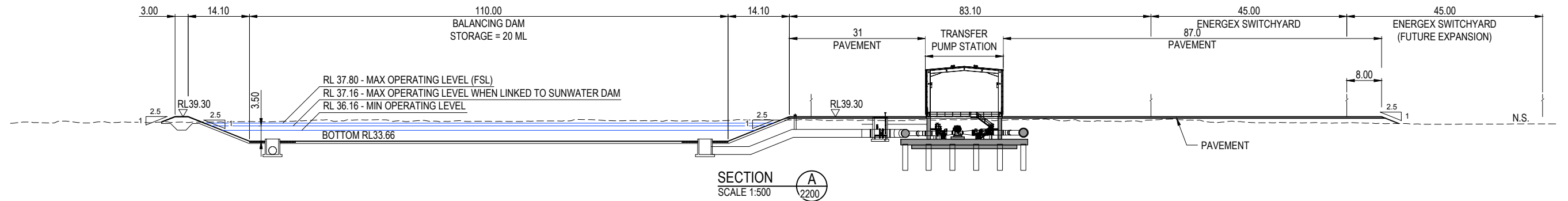
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A	09.05.19				PRELIMINARY ISSUE		

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CLIENT	DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES
PROJECT	HAUGHTON STAGE 2 PIPELINE
DRAWN	TAB
DESIGNED	DESIGN REVIEW
REVIEWED	DATE
APPROVED	DATE

TITLE	CLARE PUMP STATIONS SEDIMENTATION DAM GENERAL ARRANGEMENT
SCALE	AS SHOWN
DRAWING No.	IH175200-0000-CI-DRG-2200
REV	B



CONCEPT DESIGN ISSUE

REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE
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A	09.05.19				PRELIMINARY ISSUE		

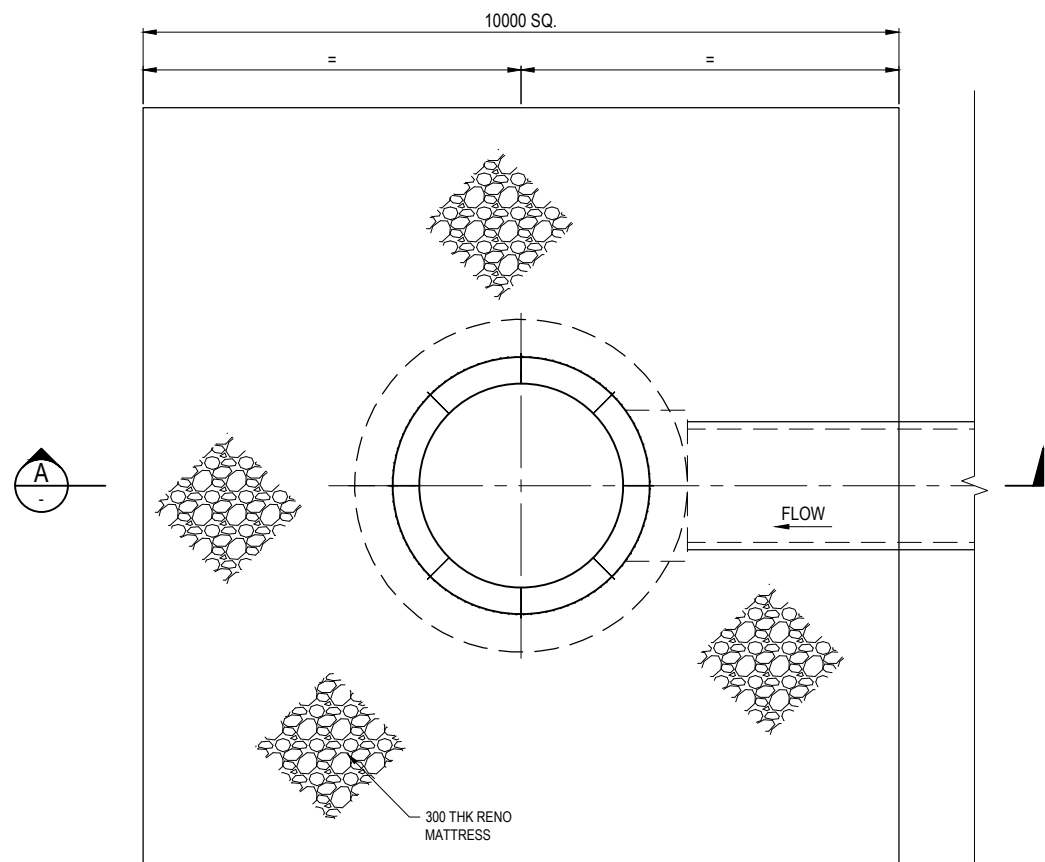
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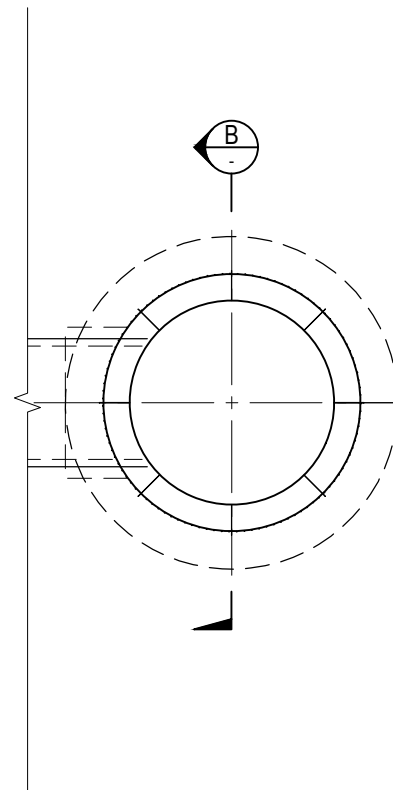
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CLIENT	DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES
PROJECT	HAUGHTON STAGE 2 PIPELINE
DRAWN	TAB
DESIGNED	DESIGN REVIEW
REVIEWED	DATE
APPROVED	DATE

TITLE	CLARE PUMP STATIONS SEDIMENTATION DAM TYPICAL SECTIONS
SCALE	AS SHOWN
DRAWING No.	IH175200-0000-CI-DRG-2201
REV	B

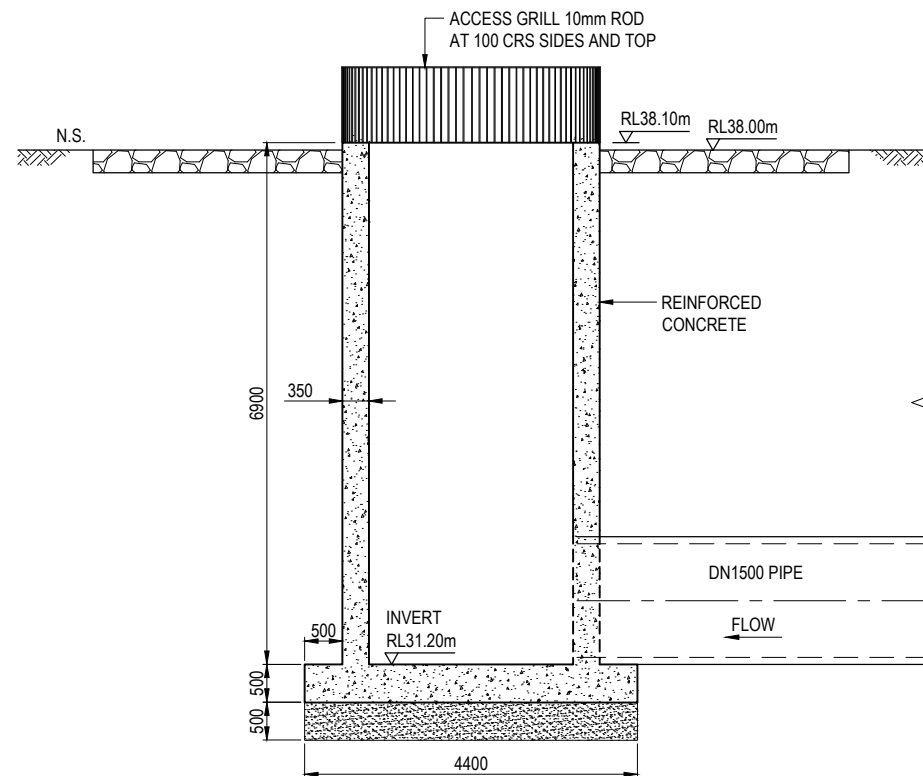


OVERFLOW OUTLET STRUCTURE
SCALE 1:50

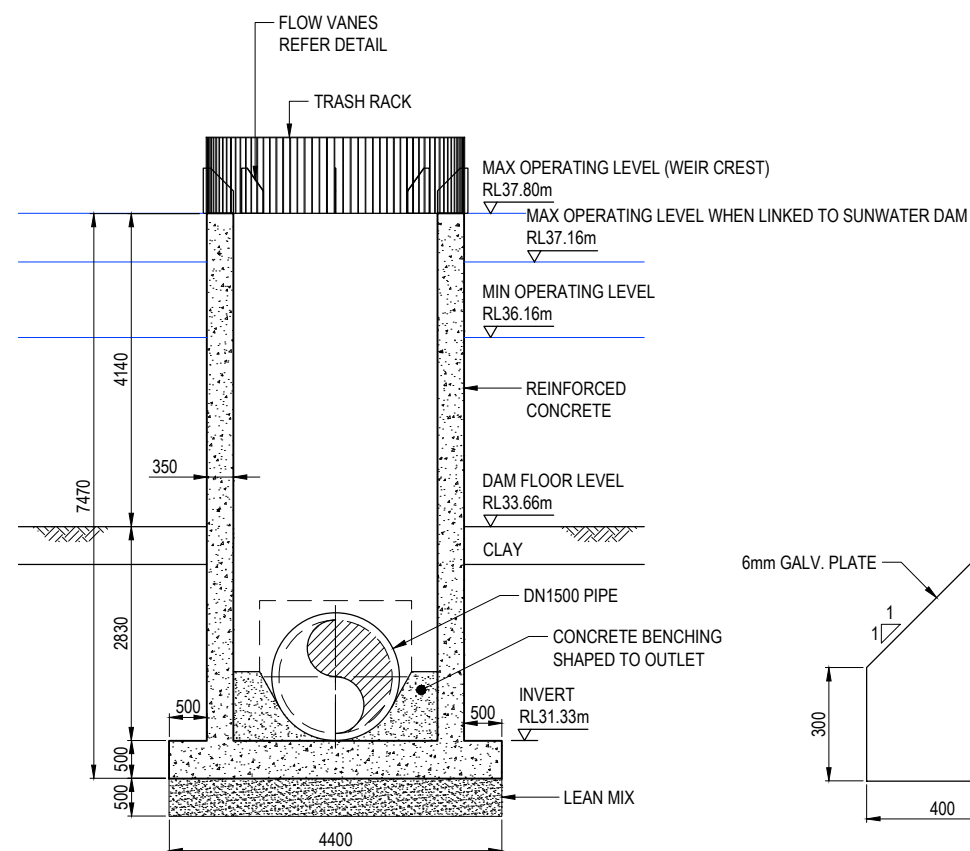


OVERFLOW INLET STRUCTURE

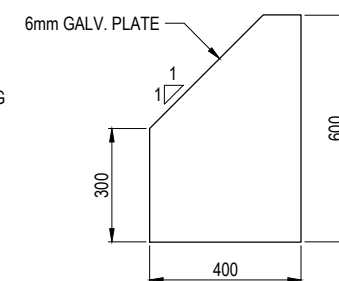
SCALE 1:50



SECTION A
SCALE 1:50



SECTION B
SCALE 1:50



TYPICAL FLOW VANE DETAIL
SCALE 1:10

CONCEPT DESIGN ISSUE

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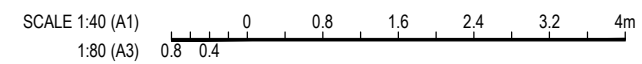
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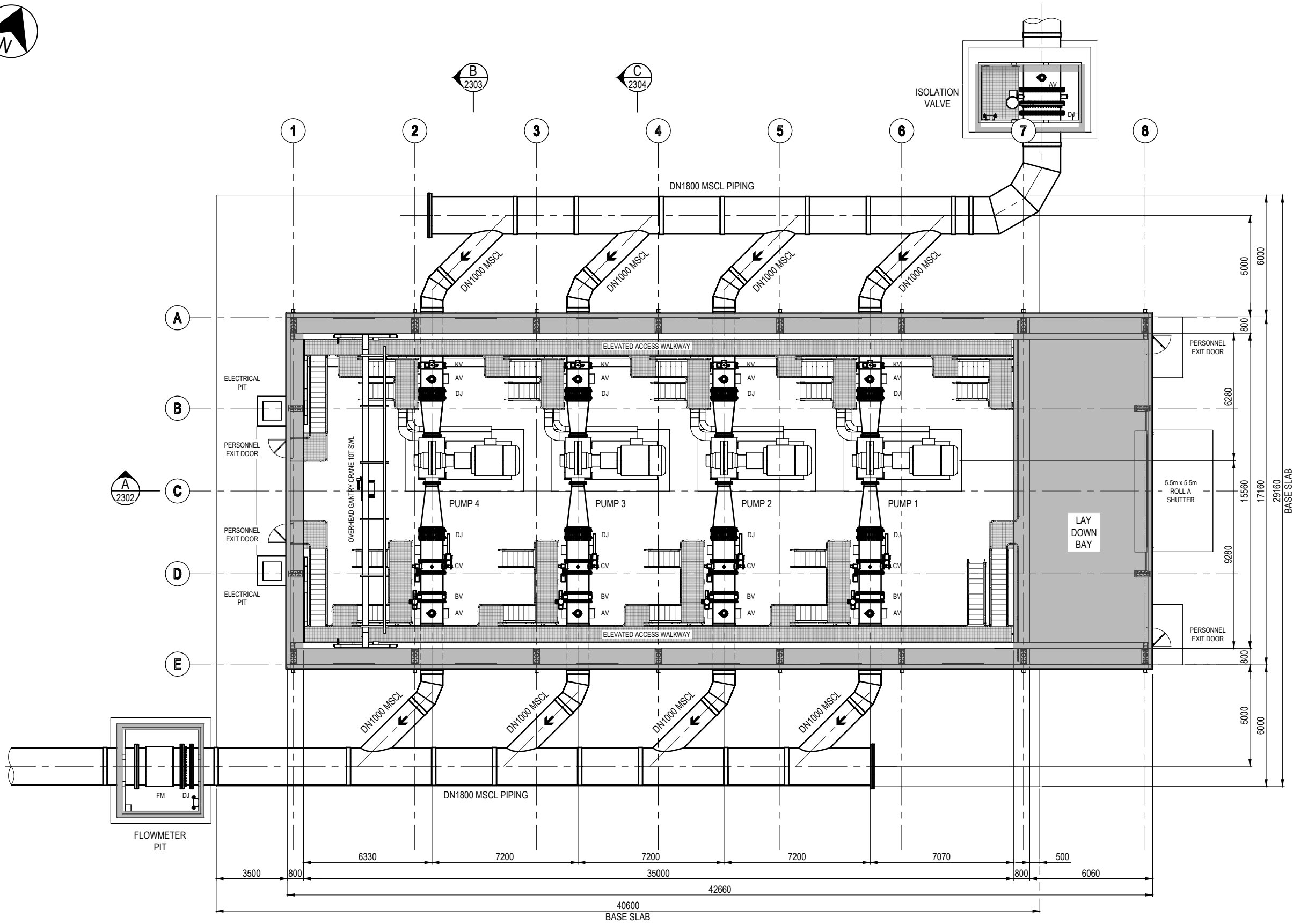
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CLIENT DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES				TITLE CLARE PUMP STATIONS SEDIMENTATION DAM TYPICAL DETAILS - OVERFLOW DETAILS			
PROJECT HAUGHTON STAGE 2 PIPELINE							
DRAWN TAB	DRAWING CHECK	REVIEWED	APPROVED	SCALE: AS SHOWN DRAWING No: IH175200-0000-CI-DRG-2202 REV B			
DESIGNED	DESIGN REVIEW	DATE	DATE				



CONCEPT DESIGN ISSUE

[illegible]



PLAN
SCALE 1:100

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

CONCEPT DESIGN ISSUE

REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE
B	28.05.19	CBB	MV	LH	CONCEPT DESIGN ISSUE		
A	09.05.19				PRELIMINARY ISSUE		

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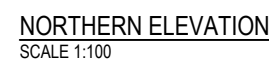
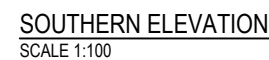
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PROJECT	HAUGHTON STAGE 2 PIPELINE		
DRAWN	DRAWING CHECK	REVIEWED	APPROVED
CBB			
DESIGNED	DESIGN REVIEW	DATE	DATE

TITLE
CLARE PUMP STATIONS
TRANSFER PUMP STATION
GENERAL ARRANGEMENT

SCALE
AS SHOWN

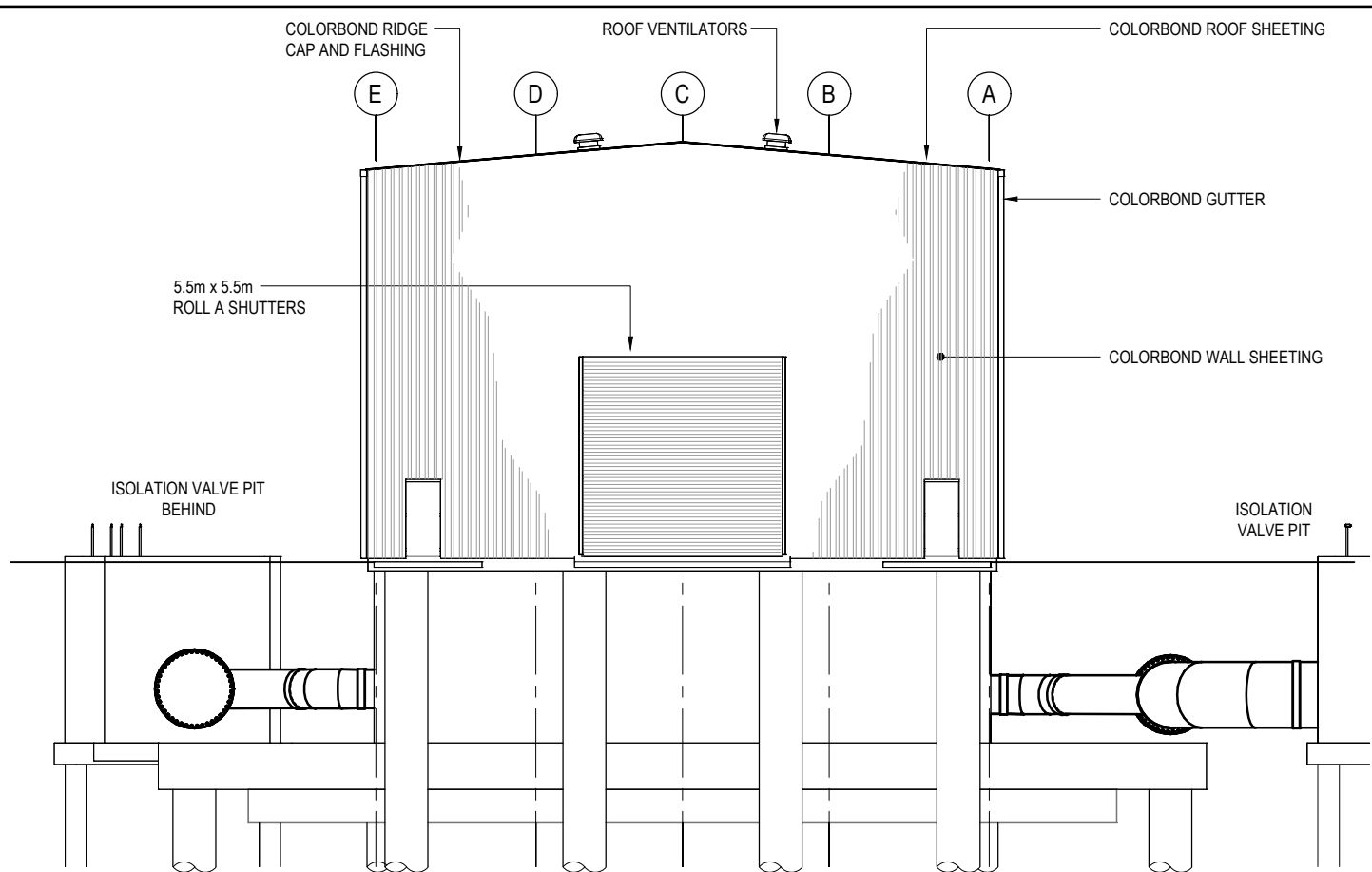
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IH175200-0000-CI-DRG-2300

REV
B

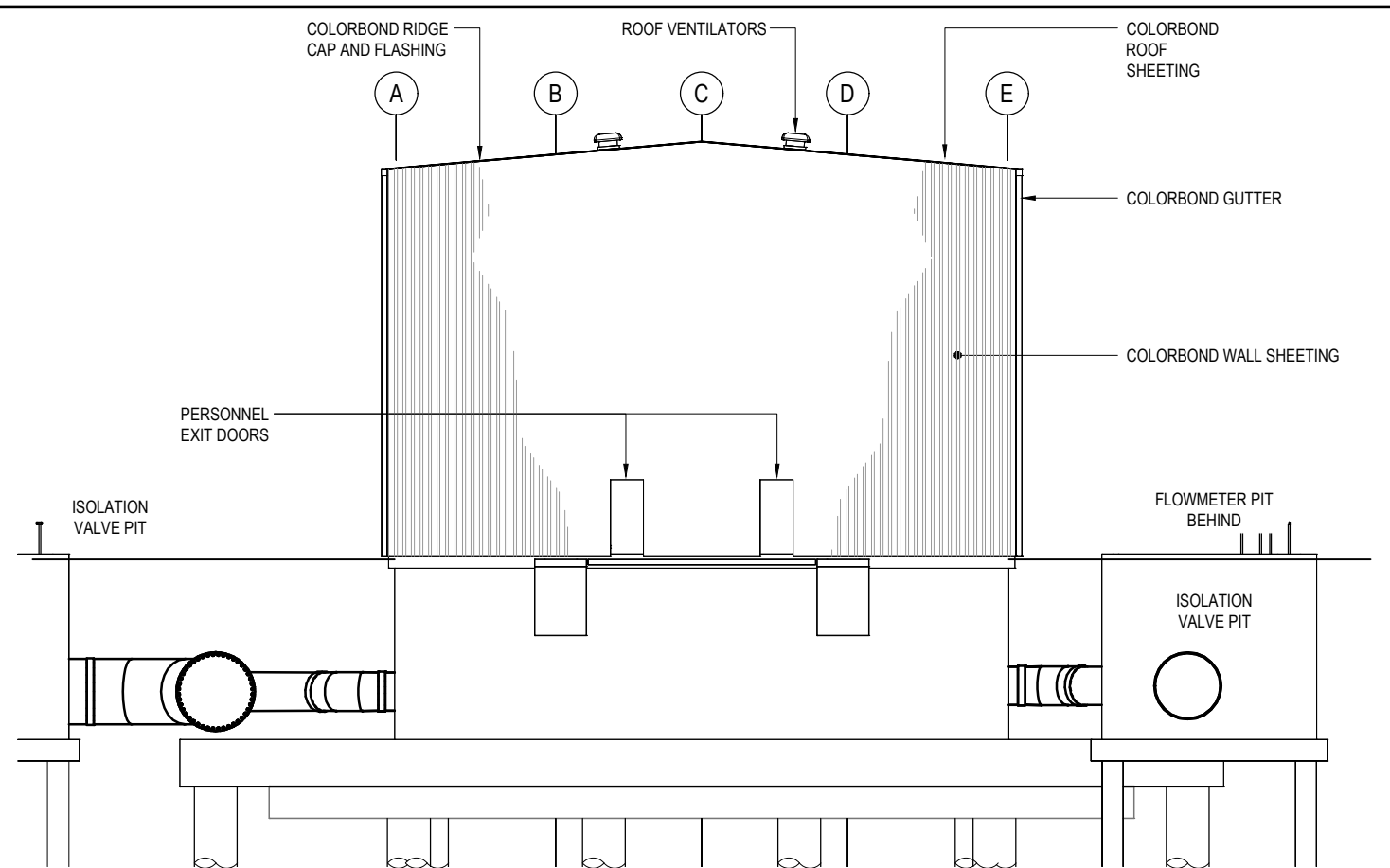


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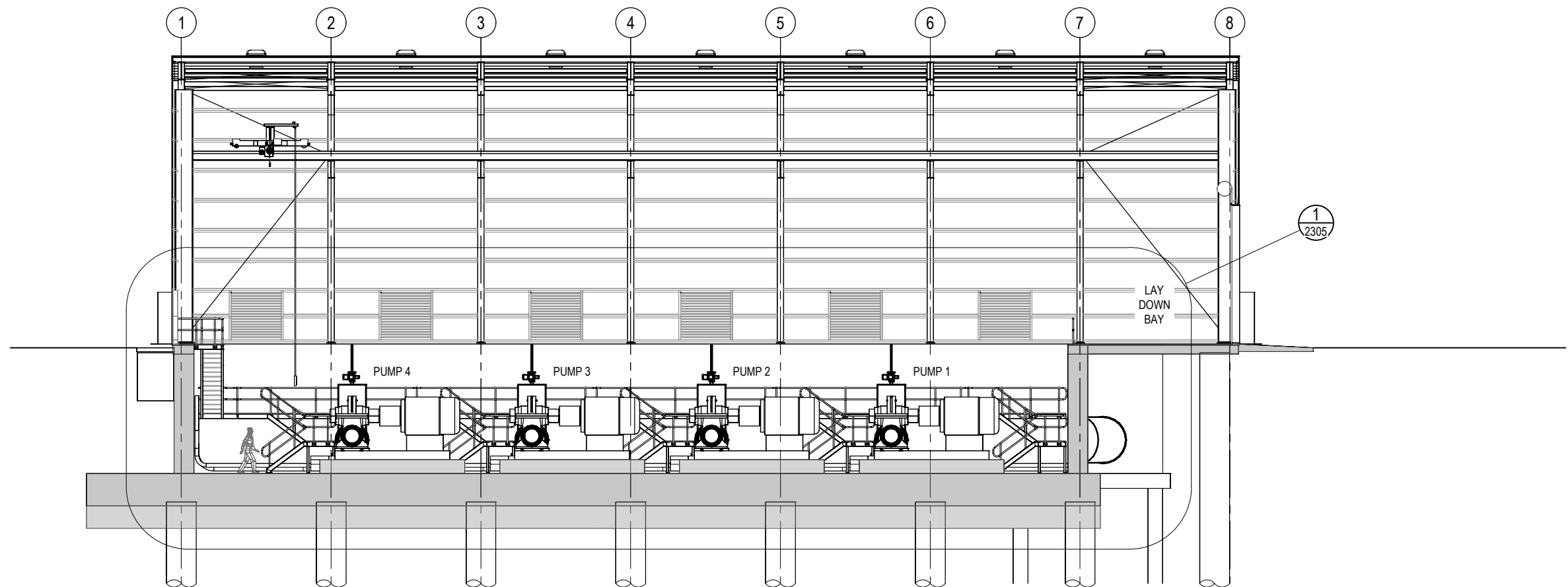
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EASTERN ELEVATION
SCALE 1:100



WESTERN ELEVATION
SCALE 1:100



SECTION A-A
SCALE 1:100 (A1)
2300

SCALE 1:100 (A1)
1:200 (A3)
0 2 4 6 8 10m
2 1

CONCEPT DESIGN ISSUE

REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE
B	28.05.19	CBB	MV	LH	CONCEPT DESIGN ISSUE		
A	09.05.19				PRELIMINARY ISSUE		

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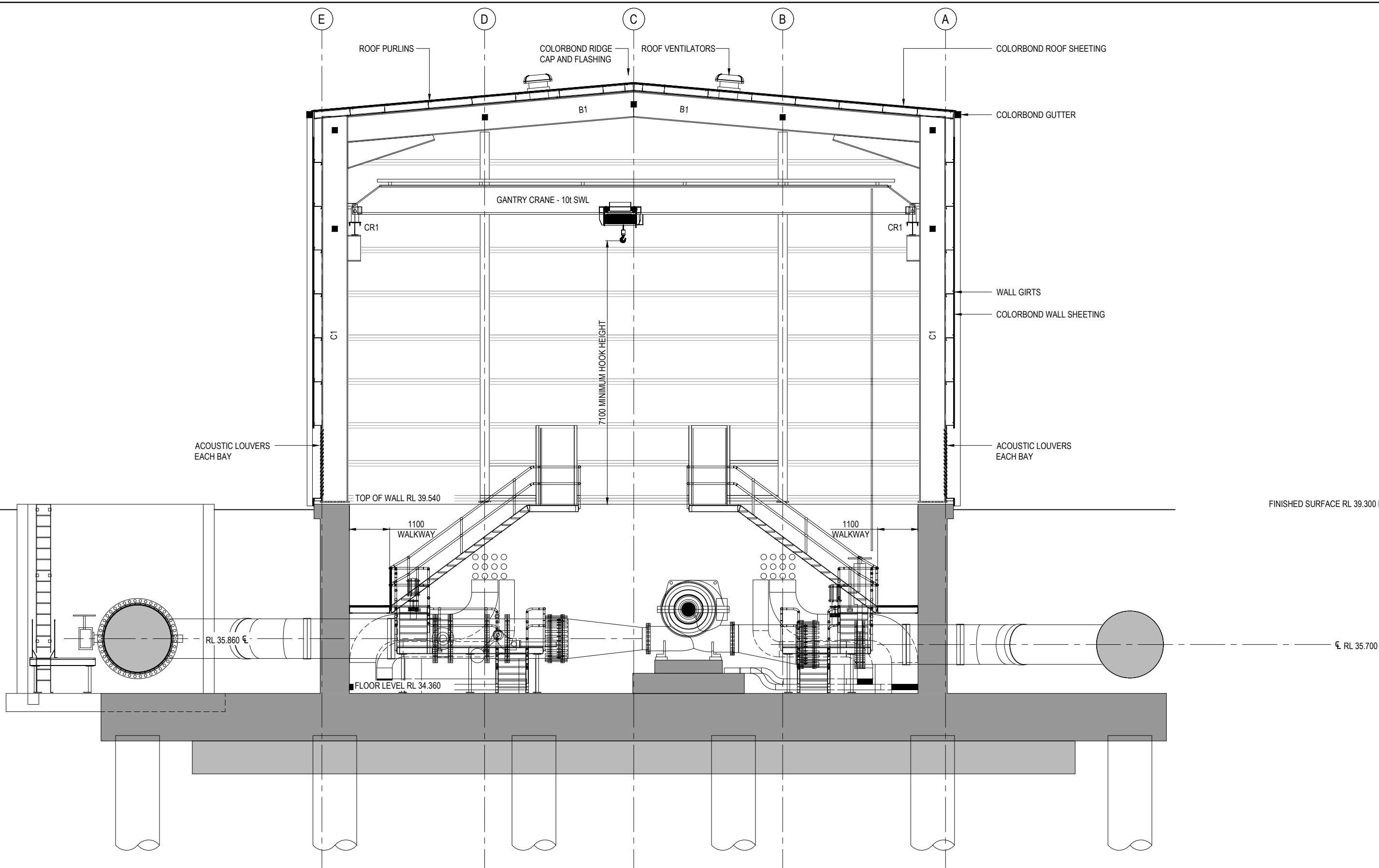
ABN 37 001 024 095 and ACN 001 024 095
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PROJECT	HAUGHTON STAGE 2 PIPELINE
DRAWN	CBB
DESIGNED	DESIGN REVIEW
REVIEWED	DATE
APPROVED	DATE

TITLE
CLARE PUMP STATIONS
TRANSFER PUMP STATION
ELEVATIONS - SHEET 2

SCALE
AS SHOWN
DRAWING No
IH175200-0000-CI-DRG-2302

REV
B



SECTION B
SCALE 1:50 (A1)

SCALE 1:50 (A1)
1:100 (A3)

CONCEPT DESIGN ISSUE

REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE
B	28.05.19	CBB	MV	LH	CONCEPT DESIGN ISSUE		
A	09.05.19				PRELIMINARY ISSUE		

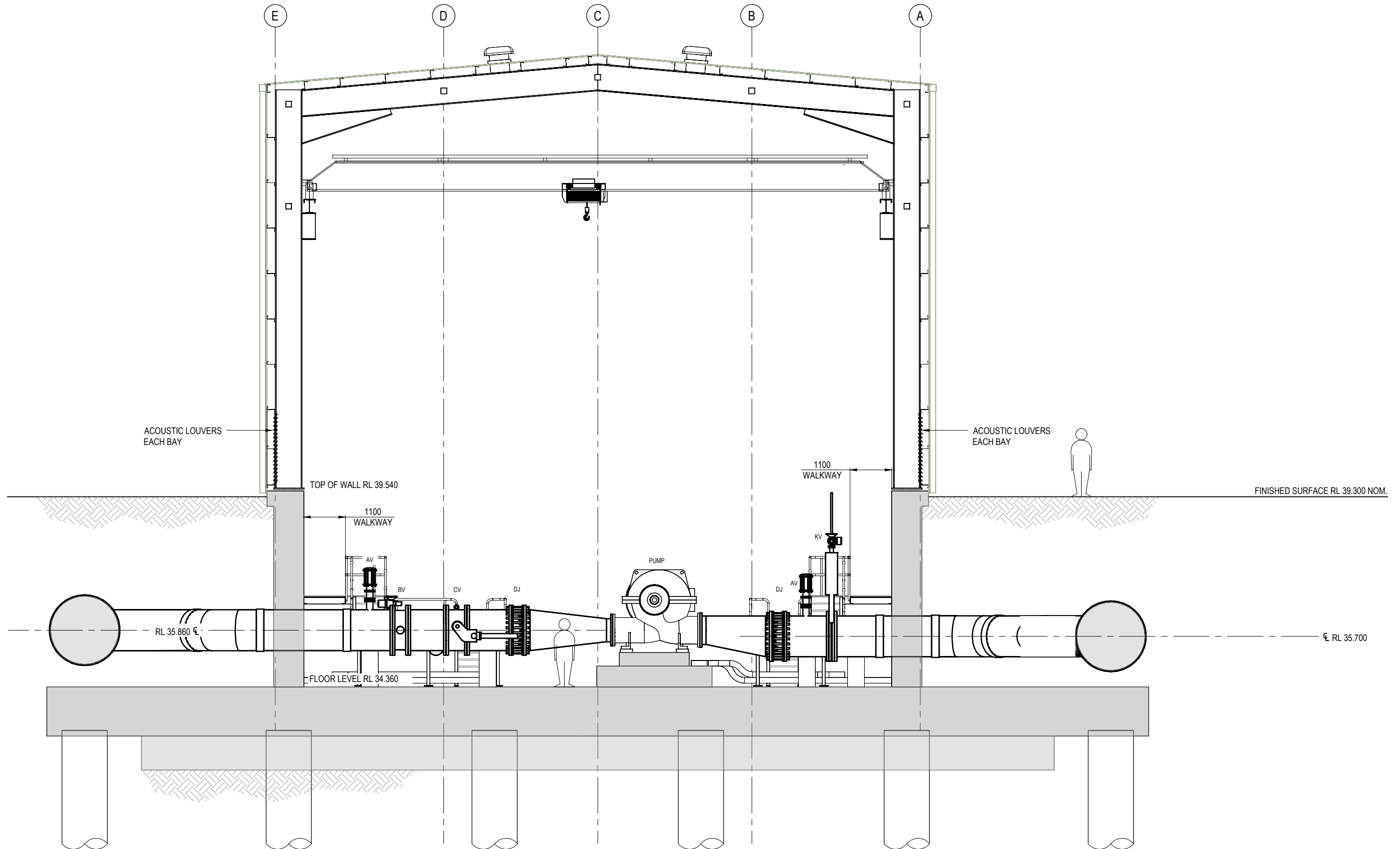
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PROJECT		HAUGHTON STAGE 2 PIPELINE	
DRAWN	DRAWING CHECK	REVIEWED	APPROVED
CBB			
DESIGNED	DESIGN REVIEW	DATE	DATE

TITLE			
CLARE PUMP STATIONS			
TRANSFER PUMP STATION			
SECTIONS - SHEET 1			
SCALE	DRAWING No		REV
AS SHOWN	IH175200-0000-CI-DRG-2303		B



SECTION C
SCALE 1:50 (A1) 2300

SCALE 1:50 (A1)
1:100 (A3) 1 0.5 1 2 3 4 5m

CONCEPT DESIGN ISSUE

REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE
B	28.05.19	CBB	MV	LH	CONCEPT DESIGN ISSUE		
A	09.05.19				PRELIMINARY ISSUE		

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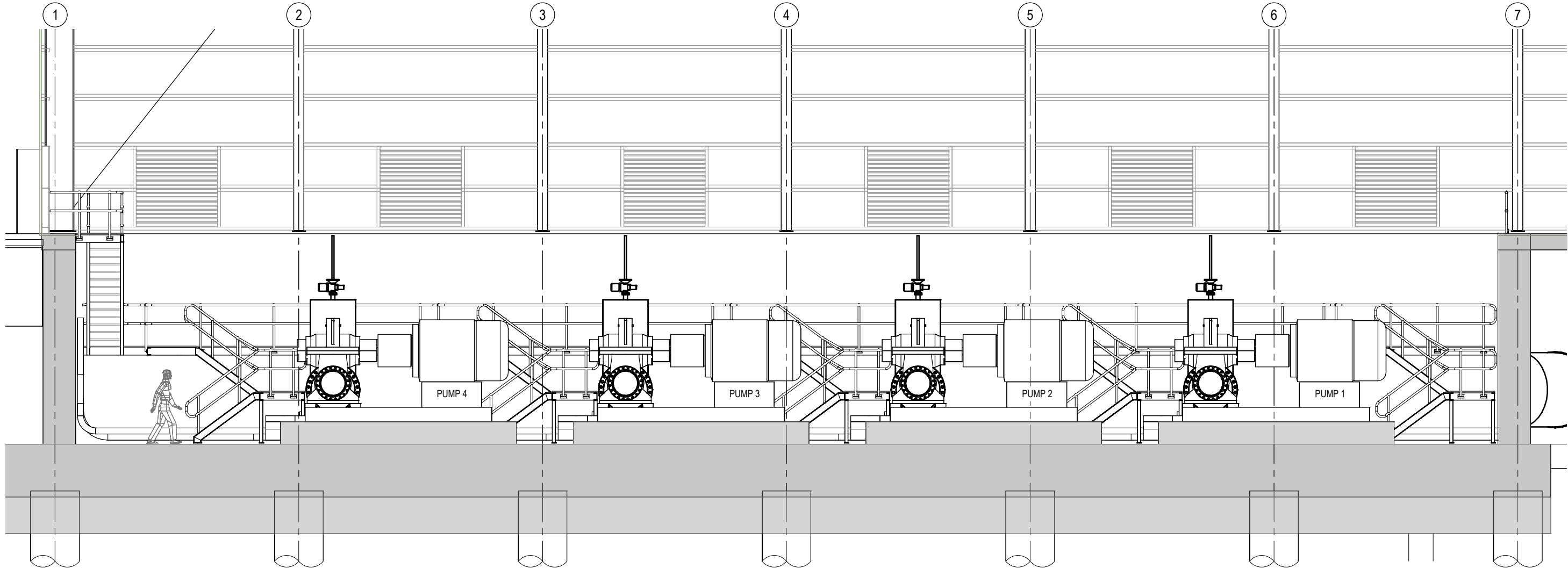
ABN 37 001 024 095 and ACN 001 024 095
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CLIENT	DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES		
PROJECT	HAUGHTON STAGE 2 PIPELINE		
DRAWN	DRAWING CHECK	REVIEWED	APPROVED
CBB			
DESIGNED	DESIGN REVIEW	DATE	DATE

TITLE
CLARE PUMP STATIONS
TRANSFER PUMP STATION
SECTIONS - SHEET 2

SCALE AS SHOWN
DRAWING No. IH175200-0000-CI-DRG-2304

REV B



DETAIL
SCALE 1:50 (A1) 1/2302

SCALE 1:50 (A1)
1:100 (A3) 1 0.5 0 1 2 3 4 5m

CONCEPT DESIGN ISSUE

REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE
B	28.05.19	CBB	MV	LH	CONCEPT DESIGN ISSUE		
A	09.05.19				PRELIMINARY ISSUE		

JACOBS

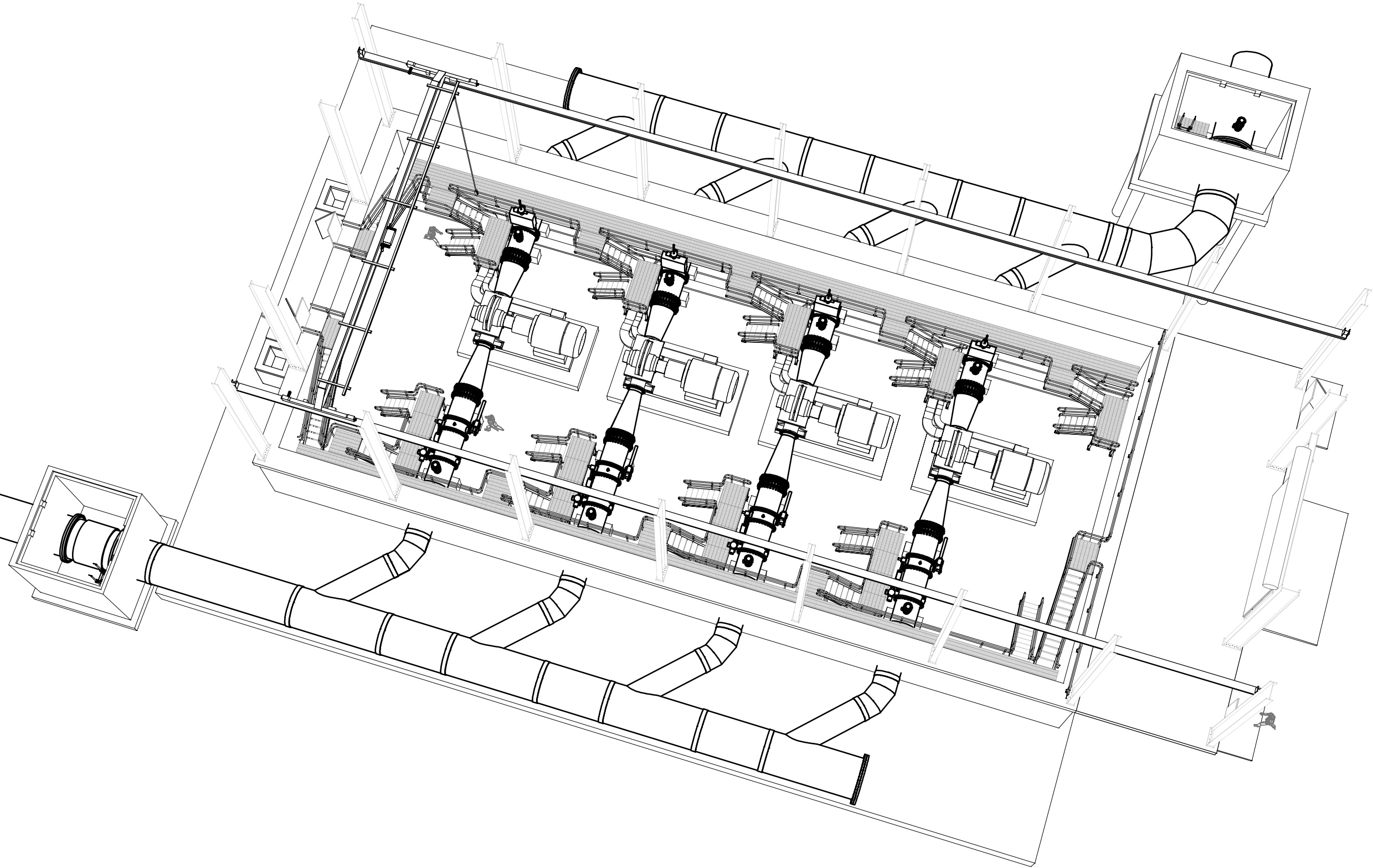
ABN 37 001 024 095 and ACN 001 024 095
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Web: www.jacobs.com

CLIENT DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES			
PROJECT HAUGHTON STAGE 2 PIPELINE			
DRAWN CBB	DRAWING CHECK	REVIEWED	APPROVED
DESIGNED	DESIGN REVIEW	DATE	DATE

TITLE
CLARE PUMP STATIONS
TRANSFER PUMP STATION
DETAILS - SHEET 1

SCALE AS SHOWN
DRAWING No. IH175200-0000-CI-DRG-2305

REV B



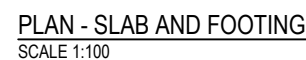
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REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE
B	28.05.19	CBB	MV	LH	CONCEPT DESIGN ISSUE		
A	09.05.19				PRELIMINARY ISSUE		

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CLIENT DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES				TITLE CLARE PUMP STATIONS TRANSFER PUMP STATION PICTORIAL			
PROJECT HAUGHTON STAGE 2 PIPELINE							
DRAWN CBB		DRAWING CHECK	REVIEWED	APPROVED		SCALE AS SHOWN DRAWING No IH175200-0000-CI-DRG-2306	REV B
DESIGNED		DESIGN REVIEW	DATE	DATE			

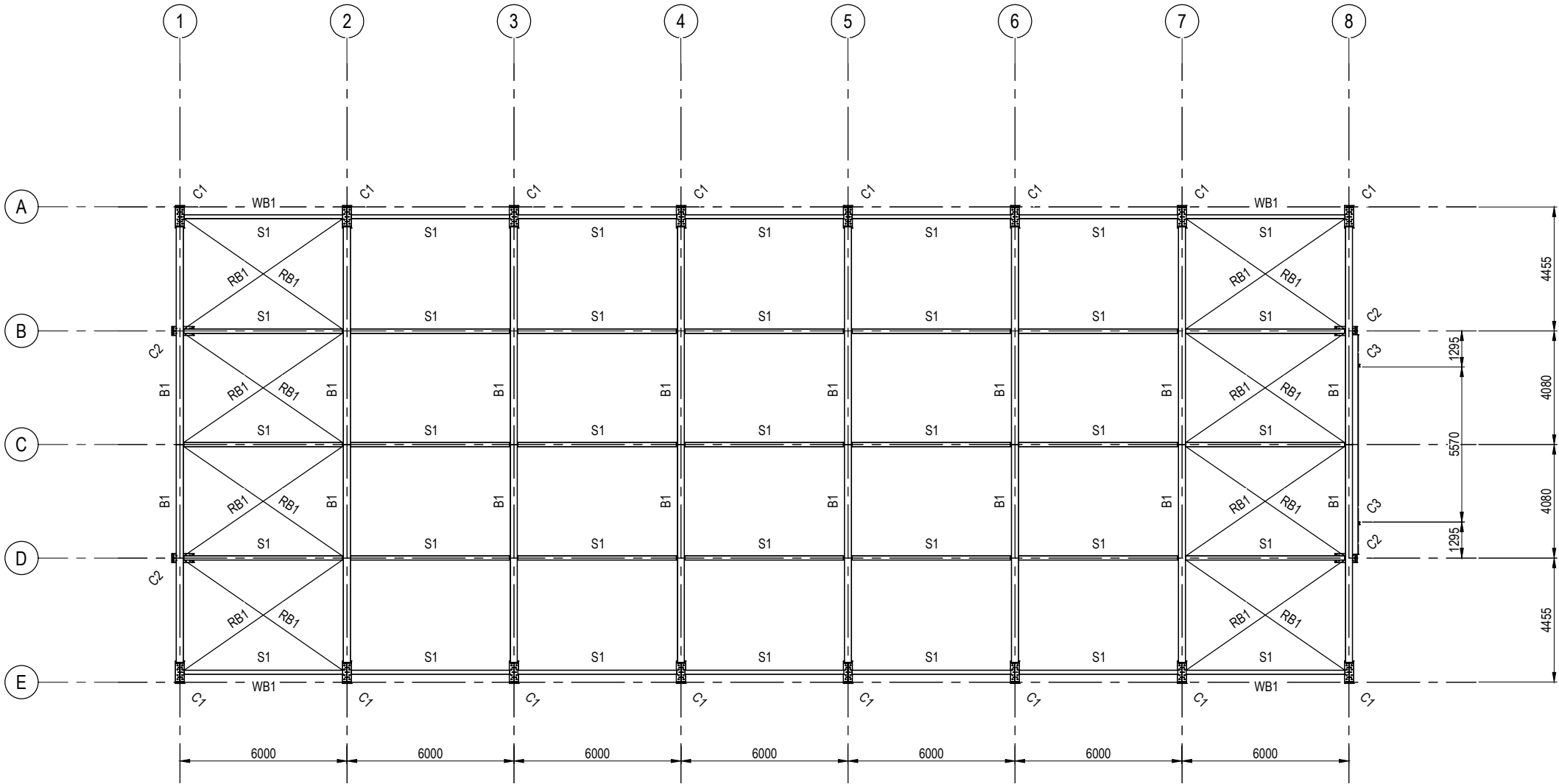


1. S40 GRADE CONCRETE FOR LIQUID RETAINING STRUCTURE.
2. ASSUMED GEOTECHNICAL PARAMETERS -
VERY STIFF TO HARD CLAY FOUNDING MATERIAL.
SKIN FRICTION = 50 KPa
BASE BEARING = 900 KPa
3. INDICATIVE PILE DETAILS -
1.2m DIAMETER
15m DEPTH
4. WALL REINFORCEMENT RATE 175 kg/m³.
5. BASE SLAB REINFORCEMENT RATE 100 kg/m³.
6. PILE REINFORCEMENT RATE 300 kg/m³.

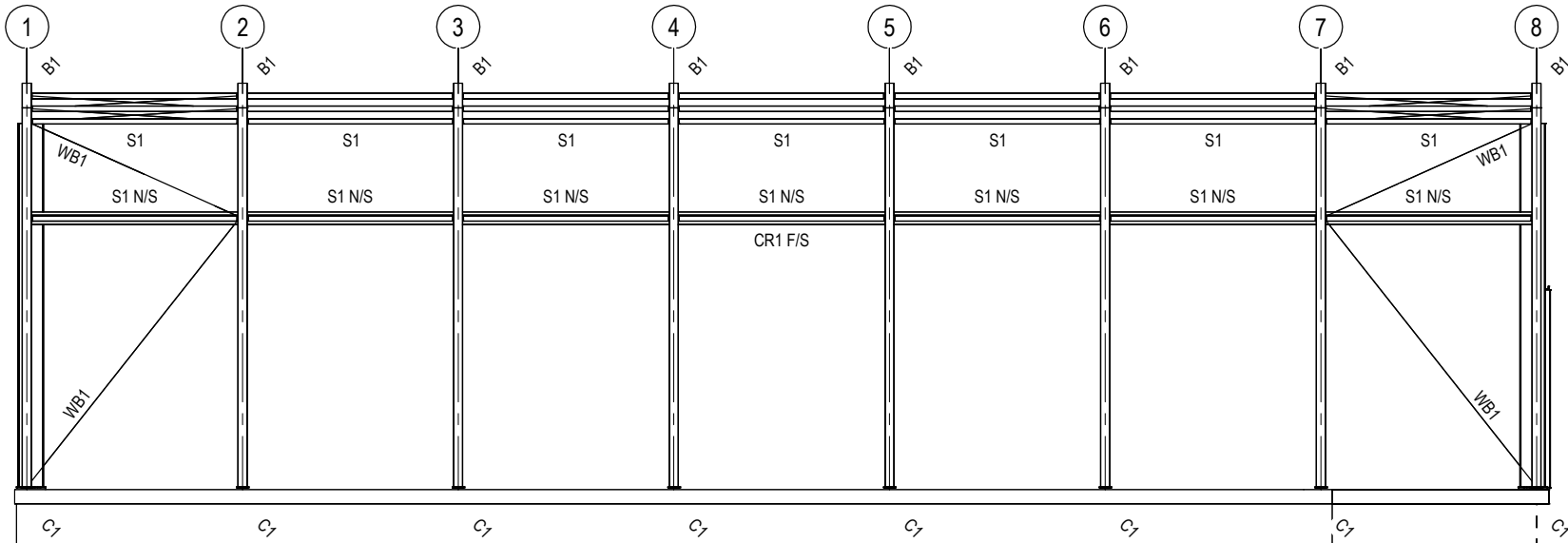
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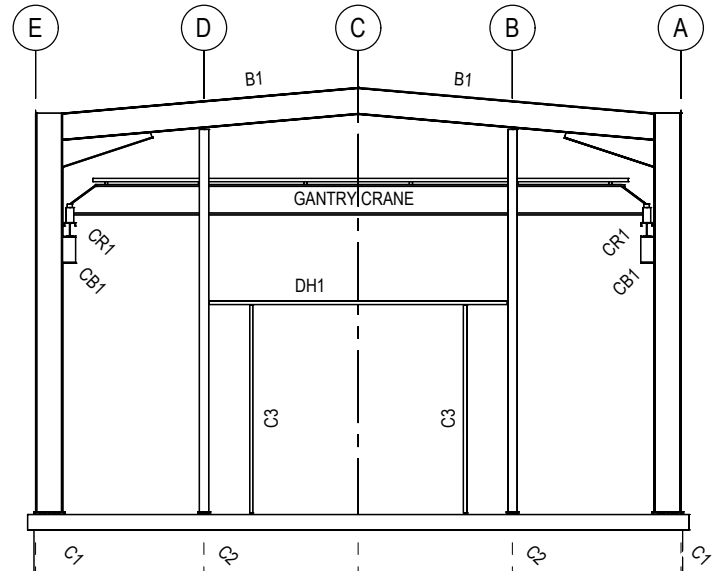
 ABN 37 001 024 095 and ACN 001 024 095 Jacobs Group (Australia) Pty Ltd 444 Flinders St Melbourne, QLD 4810 AUSTRALIA	CLIENT DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES PROJECT HAUGHTON STAGE 2 PIPELINE				TITLE CLARE PUMP STATIONS TRANSFER PUMP STATION SLAB AND FOOTING GENERAL ARRANGEMENT	
	DRAWN	DRAWING CHECK	REVIEWED	APPROVED	SCALE	REV
	DESIGNED	DESIGN REVIEW	DATE	DATE	AS SHOWN	
					DRAWING No IH175200-0000-CI-DRG-2307	B



PLAN - STEEL MARKING
SCALE 1:100



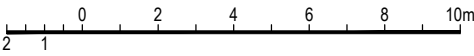
ELEVATION - STEEL MARKING
SCALE 1:100



END ELEVATION - STEEL MARKING
SCALE 1:100

STEEL MEMBER SCHEDULE		
MARK NUMBER	MEMBER	MEMBER SIZE
C1	COLUMN	700WB150
C2	END WALL COLUMN	700WB150
C3	ROLL A SHUTTER COLUMN	300X90 PFC
CB1	CORBEL	700WB150
CR1	CRANE RAIL	310UC158
B1	ROOF BEAM	700WB150
S1	STRUT	150x6 SHS
RB1	ROOF BRACING	90x90x6 EA
WB1	WALL BRACING	150x9 SHS
DH1	DOOR HEAD	300x90 PFC

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



CONCEPT DESIGN ISSUE

REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE
B	28.05.19	CBB	MV	LH	CONCEPT DESIGN ISSUE		
A	09.05.19				PRELIMINARY ISSUE		

JACOBS

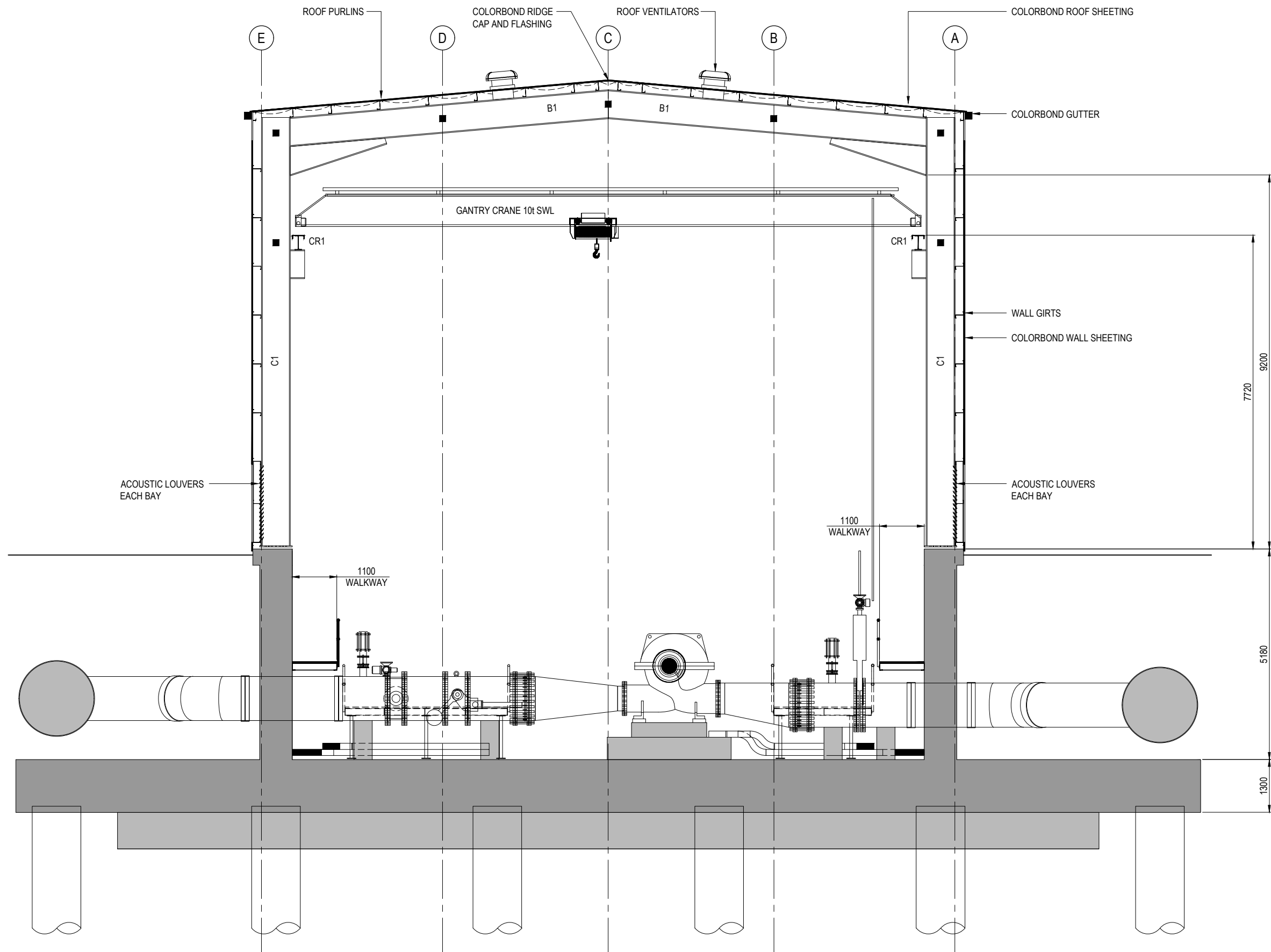
ABN 37 001 024 095 and ACN 001 024 095
Jacobs Group (Australia) Pty Ltd
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Web: www.jacobs.com

CLIENT DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES			
PROJECT HAUGHTON STAGE 2 PIPELINE			
DRAWN CBB	DRAWING CHECK	REVIEWED	APPROVED
DESIGNED	DESIGN REVIEW	DATE	DATE

TITLE
CLARE PUMP STATIONS
TRANSFER PUMP STATION
STEEL MARKING GENERAL ARRANGEMENT

SCALE AS SHOWN
DRAWING No. IH175200-0000-CI-DRG-2308

REV B



TYPICAL SECTION
SCALE 1:50 (A1)

SCALE 1:50 (A1)
1:100 (A3)

CONCEPT DESIGN ISSUE

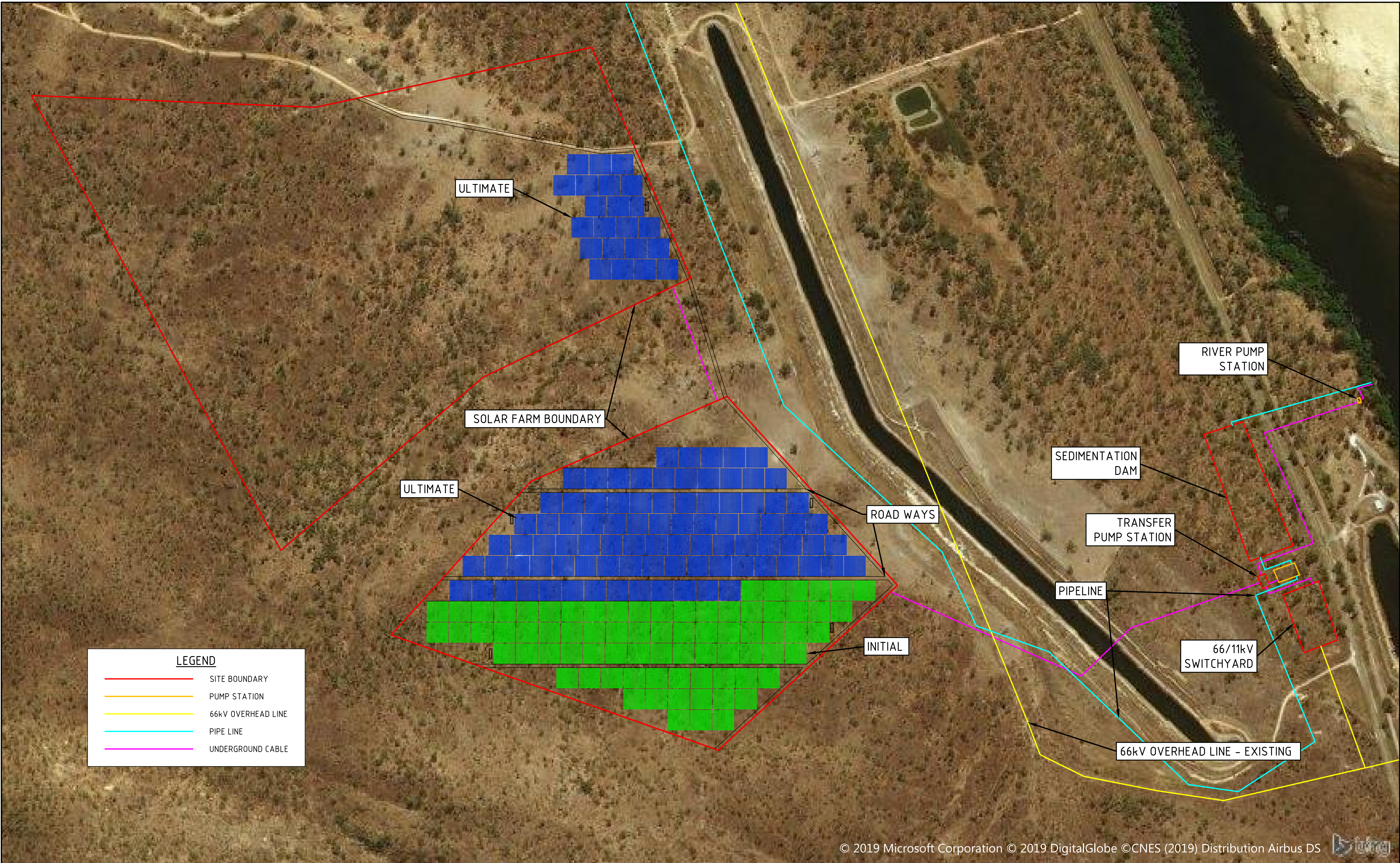
REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE
B	28.05.19	CBB	MV	LH	CONCEPT DESIGN ISSUE		
A	09.05.19				PRELIMINARY ISSUE		

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CLIENT DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES			
PROJECT HAUGHTON STAGE 2 PIPELINE			
DRAWN CBB	DRAWING CHECK	REVIEWED	APPROVED
DESIGNED	DESIGN REVIEW	DATE	DATE

TITLE CLARE PUMP STATIONS TRANSFER PUMP STATION STEELWORK TYPICAL SECTION			
SCALE AS SHOWN	DRAWING No. IH175200-0000-CI-DRG-2309	REV B	



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SCALE 1:2500 0 50 100 150 200 250m

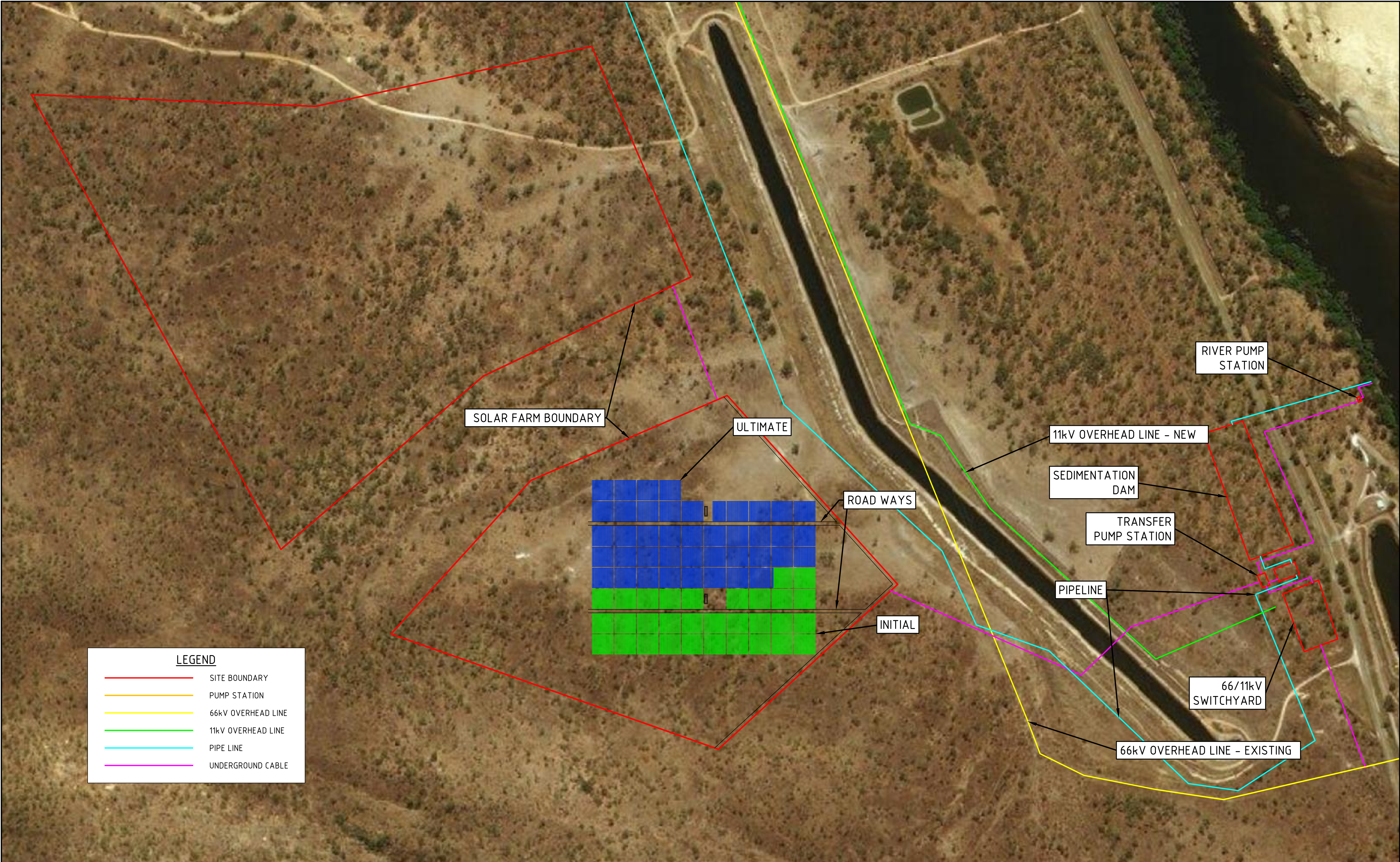
CONCEPT DESIGN - NOT FOR CONSTRUCTION

A	11/04/19	E.P.	E.B.	E.B.	PRELIMINARY CONCEPT DESIGN				
REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE		

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CLIENT DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES				TITLE HAUGHTON PIPELINE STAGE 2 OPTION 1 SOLAR FARM - INITIAL AND ULTIMATE GENERAL ARRANGEMENT	
PROJECT HAUGHTON PIPELINE STAGE 2 PUMP STATION CONCEPT DESIGN				SCALE 1:2500	REV A
DRAWN E. PALMER	DRAWING CHECK E. BORTOLUSSI	REVIEWED	APPROVED	DRAWING No IH175200-052-EE-DRG-001	
DESIGNED E. PALMER	DESIGN REVIEW E. BORTOLUSSI	DATE	DATE		



LEGEND

SITE BOUNDARY

PUMP STATION

66kV OVERHEAD LINE

11kV OVERHEAD LINE

PIPE LINE

UNDERGROUND CABLE

SCALE 1:2500 0 50 100 150 200 250m

CONCEPT DESIGN - NOT FOR CONSTRUCTION

A	11/04/19	E.P	E.B	E.B	PRELIMINARY CONCEPT DESIGN				
REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE		

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CLIENT DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES				TITLE HAUGHTON PIPELINE STAGE 2 OPTION 2 SOLAR FARM - INITIAL AND ULTIMATE SOLAR FARM GENERAL ARRANGEMENT	
PROJECT HAUGHTON PIPELINE STAGE 2 PUMP STATION CONCEPT DESIGN				SCALE 1:2500	REV A
DRAWN E. PALMER	DRAWING CHECK E. BORTOLUSSI	REVIEWED	APPROVED	DRAWING No IH175200-052-EE-DRG-002	
DESIGNED E. PALMER	DESIGN REVIEW E. BORTOLUSSI	DATE	DATE		

[illegible]



A	11/04/19	E.P	E.B	E.B	PRELIMINARY CONCEPT DESIGN				
REV	DATE	DRAWN	REVD	APPD	REVISION			DRAWING NUMBER	REFERENCE DRAWING TITLE



CLIENT DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES				TITLE HAUGHTON PIPELINE STAGE 2 OPTION 2 PUMP STATION - INITIAL AND ULTIMATE SINGLE LINE DIAGRAM			
PROJECT HAUGHTON PIPELINE STAGE 2 PUMP STATION CONCEPT DESIGN							
DRAWN E. PALMER		DRAWING CHECK E. BORTOLUSSI		REVIEWED		APPROVED	
DESIGNED E. PALMER		DESIGN REVIEW E. BORTOLUSSI		DATE		DATE	
						SCALE N.T.S	
						DRAWING No IH175200-052-EE-DRG-202	
						REV A	

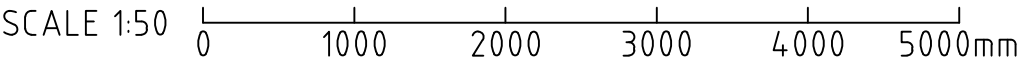


CONCEPT DESIGN - NOT FOR CONSTRUCTION

- ## NOTES
- SWITCHROOM DIMENSIONS ARE INDICATIVE MINIMUM REQUIREMENTS BASED ON STATED ASSUMPTIONS AND ARE TO BE CONFIRMED BY THE DESIGNER.
- ## BASIC CONSTRUCTION ASSUMPTIONS
- BUILDING EXTERNAL FLOOR, WALL, ROOF AND INTERNAL PARTITION WALL: 2hr FIRE RATED.
 - HVAC PROVIDED WITH SPLIT UNIT A/C, (N-1) COOLING CAPACITY.
 - FIRE DETECTION AND SUPPRESSION IN ACCORDANCE WITH PRINCIPAL'S REQUIREMENTS.
 - INTERNAL / EXTERNAL LIGHTING, INTERNAL EMERGENCY LIGHTING AND INTERNAL POWER OUTLETS IN ACCORDANCE WITH NCC AND AUSTRALIAN STANDARDS.
 - BUILDING ON PIER FOUNDATIONS WITH SUPPORTING STEEL STRUCTURE WITH HEIGHT TO FACILITATE HV CABLE BOTTOM ENTRY AND CABLE MINIMUM BENDING RADIUS.
 - DOORS WITH APPROPRIATE WEATHER SEALS, DOUBLE DOORS WITH ONE DOOR LEAF WITH 'CRASH BAR' OPENING MECHANISM.
 - ADEQUATE LANDING AND REMOVABLE HAND RAILS AND FIXED STAIRS AT EACH DOUBLE DOOR.

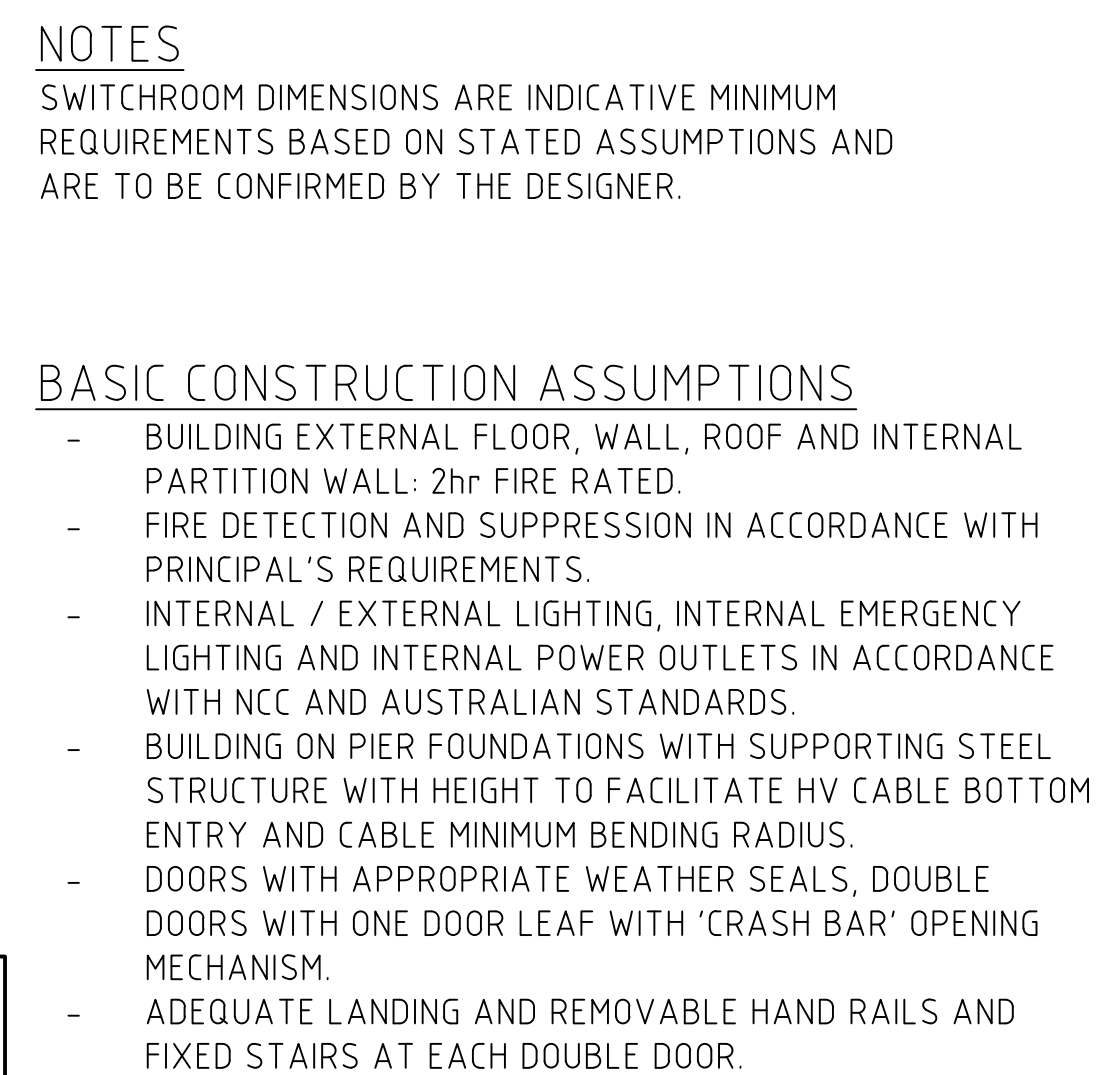
BASIC CONSTRUCTION ASSUMPTIONS

[illegible]



PLAN
SCALE 1:50

[illegible]



SCALE 1:25

0 500 1000 1500 2000 2500mm

TITLE		HAUGHTON PIPELINE STAGE 2 - OPTION 1 & 2 RIVER PUMP STATION INTAL AND ULTIMATE SWITCHROOM GENERAL ARRANGEMENT
SCALE	DRAWING No	
1:50	IH175200-052-EE-DRG-303	REVISION

A	11/04/19	E.P	E.B	E.B	PRELIMINARY CONCEPT DESIGN				
REV	DATE	DRAWN	REVD	APPD	REVISION			DRAWING NUMBER	REFERENCE DRAWING TITLE

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	PROJECT		HAUGHTON PIPELINE STAGE 2 PUMP STATION CONCEPT DESIGN				
	DRAWN	DRAWING CHECK	REVIEWED	APPROVED	SCALE 1:50	DRAWING No IH175200-052-EE-DRG-303	REV A
	E. PALMER	E. BORTOLUSSI	DATE	DATE			
DESIGNED	DESIGN REVIEW						
E. PALMER	E. BORTOLUSSI						