

PRELIMINARY

23/05/24

EPW00390 BUNDABERG EAST LEVEE BUNDABERG



DRAWING LIST		
DRAWING NUMBER	DRAWING TITLE	REV
30034151-SMC-GPRW-S-DRG-0100	TITLE SHEET	1
30034151-SMC-GPRW-S-DRG-0101	GENERAL NOTES	1
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30034151-SMC-GPRW-S-DRG-0112	GENERAL ARRANGEMENT - CONSTRUCTION AREA 2	1
30034151-SMC-GPRW-S-DRG-0113	GENERAL ARRANGEMENT - CONSTRUCTION AREA 3	1
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30034151-SMC-GPRW-S-DRG-0115	GENERAL ARRANGEMENT - CONSTRUCTION AREA 5	1
30034151-SMC-GPRW-S-DRG-0116	GENERAL ARRANGEMENT - CONSTRUCTION AREA 6	1
30034151-SMC-GPRW-S-DRG-0120	GENERAL ARRANGEMENT - LANDSCAPING AREA 1	1
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30034151-SMC-GPRW-S-DRG-0122	GENERAL ARRANGEMENT - LANDSCAPING AREA 3	1
30034151-SMC-GPRW-S-DRG-0123	GENERAL ARRANGEMENT - LANDSCAPING AREA 4	1
30034151-SMC-GPRW-S-DRG-0124	GENERAL ARRANGEMENT - LANDSCAPING AREA 5	1
30034151-SMC-GPRW-S-DRG-0125	GENERAL ARRANGEMENT - LANDSCAPING AREA 6	1
30034151-SMC-GPRW-S-DRG-0130	GENERAL ARRANGEMENT - PILES AREA 1	1
30034151-SMC-GPRW-S-DRG-0131	GENERAL ARRANGEMENT - PILES AREA 2	1
30034151-SMC-GPRW-S-DRG-0132	GENERAL ARRANGEMENT - PILES AREA 3	1
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30034151-SMC-GPRW-S-DRG-0153	SECTIONS SHEET 4	1
30034151-SMC-CTYA-C-DRG-0201	CITY LEVEE WALL SITE PLAN AND LONG SECTION (CH 0-700)	1
30034151-SMC-CTYA-C-DRG-0202	CITY LEVEE WALL SITE PLAN AND LONG SECTION (CH 700 - 997.70)	1
30034151-SMC-SMLA-C-DRG-0203	SUGAR MILL LEVEE WALL SITE PLAN AND LONGSECTION	1
30034151-SMC-CTYA-C-DRG-0204	CITY CONTOUR PLAN	1
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SCALE 1:2500

PLAN
SCALE 1 : 2500

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INDEX	DATE	DESCRIPTION	DRAWN	CHECKED	PASSED	INITIALS	DATE
1	23/05/24	PRELIMINARY DESIGN	SJ	RT	RT		23/05/24

PRINCIPAL

1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA

PRINCIPAL CONSULTANT

Member of the Surlana Jurong Group

MANAGING CONTRACTOR

30034151
BUNDABERG EAST LEVEE
TITLE SHEET

PRINCIPAL DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS

SHEET OF SHEETS SCALE 1 : 2500

REVISION DATE 23/05/24 REVISION 1

DISCIPLINE CODE STRUCTURAL

DRAWING NO. 30034151- SMC- GPRW-S-DRG 0100

REVIT MODEL NAME: Bundaberg_East_Levee_EPW00390_SMC-GPRW-S-DRG-0100.rvt

23/05/2024 1:19:17 PM

PRELIMINARY

23/05/24

GENERAL NOTES

- 1. DRAWINGS TO BE READ IN CONJUNCTION WITH DRAWING XXXX, PROJECT SPECIFICATIONS, TMS 1434, TMS 1439 AND OTHER DRAWINGS.
2. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH STATUTORY AUTHORITY REQUIREMENTS, THE LATEST SPECIFICATIONS AND CURRENT VERSIONS OF AUSTRALIAN STANDARDS. WHERE CONFLICT EXISTS THE MOST STRINGENT CONDITIONS SHALL APPLY.
3. DURING CONSTRUCTION, ALL STRUCTURES SHALL BE MAINTAINED IN A SAFE AND STABLE CONDITION AND ENSURING THAT NO PART SHALL BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.
4. REGIONAL WIND SPEED
SITE REGION C
TERRAIN CATEGORY 1
ULTIMATE WIND SPEED 74 m/s
SERVICEABILITY WIND SPEED 47 m/s

REINFORCEMENT:

- 1. REINFORCEMENT SHOWN ON THE DRAWINGS IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY SHOWN IN TRUE PROJECTION.
2. REINFORCEMENT SYMBOLS INDICATE THE FOLLOWING :-
S - DENOTES: GRADE 250S HOT ROLLED DEFORMED, BARS TO AS 4671
R - DENOTES: GRADE 250R HOT ROLLED PLAIN BARS TO AS 4671
SL/RL- DENOTES: HARD-DRAWN WIRE REINFORCING FABRIC TO AS 4671
W - DENOTES: HARD-DRAWN PLAIN WIRE TO AS 4671
N - DENOTES: GRADE 500N HIGH YIELD DEFORMED, BARS TO AS 4671
3. REINFORCEMENT ABBREVIATIONS INDICATE THE FOLLOWING :-
EF ----- EACH FACE
NF ----- NEAR FACE
FF ----- FAR FACE
EW ----- EACH WAY
T or TOP ----- TOP
B or BTM ----- BOTTOM
4. MECHANICAL SPLICES SHALL ONLY BE USED WHERE APPROVED BY THE STRUCTURAL ENGINEER.
5. REINFORCEMENT SHALL NOT BE WELDED UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE DESIGNER.
6. REINFORCEMENT LAP LENGTHS SHALL BE AS SHOWN BELOW U.N.O.:-
N12 - 500mm
N16 - 700mm
N20 - 900mm
N24 - 1200mm
N28 - 1600mm

FOUNDATION NOTES:

- 1. BACKFILLING SHALL BE CARRIED OUT USING SELECT FILL COMPRISING WELL GRADED GRAVEL MATERIAL OR GRANULAR SAND AND MAXIMUM DRY DENSITY UNDER STANDARD COMPACTION IN ACCORDANCE WITH AS 1289 AND TMS 1437.
2. ANY AREAS OF SOFT OR UNSTABLE MATERIAL ARE TO BE REMOVED DOWN TO AN ACCEPTABLE FOUNDING MATERIAL AND REPLACED WITH FILL AS SPECIFIED, COMPACTED TO 100% STANDARD DENSITY TO AS 1289.5.1.1 U.N.O.
3. SELECT FILL TO BE AN APPROVED GRANULAR SAND OR GRAVEL MATERIAL HAVING A PLASTICITY INDEX NOT EXCEEDING '15' AND TO BE FREE OF ALL ORGANIC AND DELETERIOUS MATTER, 100% SHALL PASS A 37.5mm SIEVE U.N.O.
4. SITE PREPARATION FOR SLAB ON GRADE FOLLOWING EXCAVATION TO DESIGN SUBGRADE LEVELS AND STRIPPING OF ANY SUPERFICIAL SOLIDS CONTAINING ORGANIC MATTER SHOULD COMPRISE OF PROOF ROLLING SING LOADED SITE EQUIPMENT TO IDENTIFY ANY SOFT SPOTS. ANY SOFT AREAS SHALL BE EXCAVATED AND REPLACED WITH SELECT GRANULAR FILL CBR15 OR BETTER) AND COMPACTED IN LAYERS NO DEEPER THAN 150mmDEPTH. REFER NOTE TMS 1437 FOR COMPACTION CRITERIA.

CONCRETE:

- 1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600.
2. CONCRETE SHALL BE FROM AN APPROVED SOURCE AND SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING STANDARDS, U.N.O. :-
AS 3600 CONCRETE STRUCTURES
AS 3972 PORTLAND AND BLENDED CEMENTS
AS 4997-2005 - MARITIME STRUCTURES
AS 5100 - BRIDGE CODE FOR TECH SPECS ON MARINE GRADE CONCRETE AND REINFORCEMENT
AS 1379 SPECIFICATION AND SUPPLY OF CONCRETE
AS 2758.1 CONCRETE AGGREGATES
AS 1141 METHODS FOR SAMPLING AND TESTING AGGREGATES
AS 1478 CHEMICAL ADMIXTURES FOR CONCRETE
AS 1012 METHODS OF TESTING CONCRETE
AS 3582 SUPPLEMENTARY CEMENTITIOUS MATERIALS FOR USE WITH PORTLAND CEMENT TMS1439 TECHNICAL SPECIFICATION FOR CONCRETE STRUCTURES
3. CONCRETE SHALL BE SUPPLIED ON A PERFORMANCE BASIS TO THE CONCRETE GRADES NOTED ON THE DRAWINGS.
4. MAXIMUM CONCRETE SLUMP SHALL BE 100mm (+/- 15).
5. MAXIMUM AGGREGATE SIZE SHALL BE 20 mm.
6. ALL CONCRETE SHALL BE AS PER BELOW TABLE U.N.O.

Table with 2 columns: ITEM, CONCRETE. Rows include BLINDING (N15), LEVEE WALL/SLAB (S50), PILE (S50).

- 7. CONCRETE COVER TO REINFORCEMENT SHALL BE 65mm U.N.O. MAINTAIN COVER TO ALL REINFORCEMENT AT CHAMFERS, PENETRATIONS, CHASES AND THE LIKE.
8. SIZES OF CONCRETE ELEMENTS SHOWN ON THE DRAWINGS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
9. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF ANY STONE POCKETS OR VOIDS. CONCRETE SHALL BE VIBRATED BY MECHANICAL VIBRATORS DURING PLACEMENT.
10. ALL FORMED EXPOSED EDGES AND RE-ENTRANT CORNERS SHALL BE CHAMFERED OR FILLETED 20mm U.N.O.
11. NO PENETRATIONS, CHASES OR TEMPORARY FIXTURES OTHER THAN THOSE SHOWN ON THE DRAWINGS ARE PERMITTED IN THE CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
12. REINFORCEMENT AT PENETRATIONS SHALL BE TREATED THUS U.N.O.:
A. TRIM ALL MESH REINFORCEMENT TO MAINTAIN MINIMUM CLEAR COVER AROUND PENETRATION. INCLUDE 4 x n12 1000mm.
B. TRIMMER BARS DIAGONALLY PLACED AROUND PENETRATION. FOR GREATER THAN 100mm DIAMETER CONDUITS U.N.O.
13. CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN ON THE DRAWINGS OR SPECIFICALLY APPROVED BY THE DESIGNER. FURTHER, CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED SHALL BE CLEAN, FREE OF ALL LAITANCE, AND BE DAMPENED DOWN PRIOR TO COMMENCEMENT OF POURING NEW CONCRETE.
14. ALL CONCRETE INTERFACES ARE TO BE ROUGHENED TO 5mm AMPLITUDE ROUGHNESS TO ENSURE SATISFACTORY BOND BETWEEN INSITU CONCRETE AND PRECAST / EXISTING CONCRETE OR BETWEEN DIFFERENT POURS OF INSITU CONCRETE U.N.O. ALL CONCRETE SURFACES TO BE FREE OF LAITANCE.
15. ALL CONCRETE, INCLUDING SLABS ON GROUND & FOOTINGS, SHALL BE COMPACTED USING VIBRATION EQUIPMENT AS FOLLOWS :-
A. FOR SLABS USE IMMERSION TYPE VIBRATORS VERTICALLY, NO HORIZONTALLY, IN OVERLAPPING SPOT PATTERN AND/OR VIBRATING SCREED.
B. FOR ALL OTHER ELEMENTS USE IMMERSION TYPE VIBRATOR VERTICALLY.
VIBRATION IN EACH LOCATION SHOULD CONTINUE UNTIL AIR BUBBLES CEASE TO APPEAR (GENERALLY AFTER 20-30 SECONDS).
16. INITIAL CURING OF CONCRETE SHALL COMMENCE NO LATER THAN 2 HOURS AFTER FINISHING OPERATIONS HAVE BEEN COMPLETED. THE CONCRETE SHALL BE KEPT CONTINUOUSLY MOIST AT LEAST OVERNIGHT BY :-
A. PONDING OR CONTINUOUS SPRINKLING WITH WATER
B. USE OF AN ABSORPTIVE COVER KEPT CONTINUOUSLY WET
C. COATING WITH AN APPROVED SPRAYED MEMBRANE CURING COMPOUND.

- 17. FINAL CURING SHALL IMMEDIATELY FOLLOW INITIAL CURING AND SHALL BE CONTINUED FOR 7 DAYS. ONE OF THE FOLLOWING CURING METHODS SHALL BE ADOPTED FOR FINAL CURING :-
A. PONDING OR CONTINUOUS SPRINKLING WITH WATER.
B. USE OF AN APPROVED MOISTURE RETAINING COVERING SUCH AS HEAVY GAUGE CLEAR POLYTHENE SHEETING OR BUILDING PAPER, FIRMLY HELD AGAINST THE CONCRETE SURFACES TO PREVENT AIR CIRCULATION AT THE CONCRETE SURFACES. SUCH COVERS SHALL BE MAINTAINED UNDAMAGED DURING THE CURING PERIOD.
C. COATING WITH AN APPROVED SPRAYED MEMBRANE.
18. REFER TMS 1439 FOR CURING AND CONCRETE PLACEMENT DETAILS.
19. COMPLIANCE TESTING AND SAMPLING OF CONCRETE SHALL BE IN ACCORDANCE WITH AS 3600, AS1379 AND AS 1012.
20. CONCRETE SHALL NOT BE PLACED WHEN THE AMBIENT TEMPERATURE IS ABOVE 30°C OR BELOW 5°C AT THE TIME OF PLACEMENT UNLESS APPROVED OTHERWISE IN WRITING.
21. FORMWORK SHALL REMAIN IN PLACE FOR A PERIOD NOT LESS THAN THE RECOMMENDED STRIPPING TIMES LISTED IN AS 3600
22. CONCRETE TESTING AND QUALITY CONTROL SHALL BE CARRIED OUT AS SPECIFIED BELOW AND IN ACCORDANCE WITH AS 1012, AS 1379 AND AS3600.
A. SLUMP TESTING SAMPLES SHALL BE OBTAINED AT THE POINT OF CONCRETE PLACEMENT ON SITE AND THE TEST SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1012.
B. FOR THE COMPRESSION TEST SPECIMENS, RANDOM SAMPLING OF THE FRESH CONCRETE SHALL BE CARRIED OUT AND THE MINIMUM FREQUENCY OF SAMPLING OF CONCRETE SHALL BE AS FOLLOWS:
VOLUME OF CONCRETE (m³) No. OF SAMPLES
1-25 1
25-50 2
ADDITIONAL 50 1
C. FOR CRITICAL CONCRETE ELEMENTS OR SINGLE POUR IN EXCESS OF 10m³ OF CONCRETE, THE ABOVE FREQUENCIES MAY BE INCREASED AS DIRECTED BY THE SITE SUPERVISOR.
D. AT LEAST 3 TEST SPECIMENS SHALL BE PREPARED FROM EACH SAMPLE FOR ONE COMPRESSION TEST AT 7 DAYS AND 2 COMPRESSION TESTS AT 28 DAYS. ADDITIONAL SPECIMENS MAY BE REQUIRED IF THE CONCRETE STRENGTH NEEDS TO BE ASSESSED AT OTHER THAN 7 DAYS AND 28 DAYS.
E. ALL TEST RECORDS AND REPORTS SHALL BE MADE AVAILABLE WITH IN 2 DAYS OF TESTING.
F. A WRITTEN QUALITY CONTROL PROGRAM AND INSPECTION PROCEDURES SHALL BE SUBMITTED TO FULTON HOGAN OR QOU.
23. U.N.O., ALL FORMED CONCRETE SURFACES SHALL BE CLASS 2 FINISH AND CLASS 4 FOR CONCRETE WORK BELOW FINISHED GROUND LEVEL IN ACCORDANCE WITH AS 3610
24. ALL CONCRETE SLABS SHALL HAVE A BROOM FINISH PARALLEL TO THE FALL OF THE CONCRETE SLAB TOP SURFACE

STEELWORK:

- 1. ALL STEELWORK AND FABRICATION SHALL COMPLY WITH THE REQUIREMENTS OF TMS 1434, AS 4100 AND AS 1554 U.N.O.
2. ALL STEELWORK SHALL BE FABRICATED FROM MATERIAL COMPLYING WITH AS 3678 AND AS 3679.
3. THE FOLLOWING MINIMUM STEEL GRADES SHALL APPLY :-
STEEL MEMBER ----- GRADE
UB, UC, PFC, BRACING RODS ----- 300 PLUS
PLATES, CLEATS, STIFFENERS ----- 250
CHS, RHS, SHS ----- 350
4. ALL HD BOLTS SHALL BE STAINLESS STEEL U.N.O.
5. BOLTING PROCEDURES SHALL BE AS FOLLOWS:-
4.6/S COMMERCIAL AS 1111 SNUG TIGHTENED
8.8/S HIGH STRENGTH AS 1252 SNUG TIGHTENED
8.8/TF HIGH STRENGTH STRUCTURAL FRICTION TYPE JOINT AS 1252 FULLY TENSIONED
8.8/TB HIGH STRENGTH STRUCTURAL BEARING TYPE JOINT AS 1252 FULLY TENSIONED
6. ALL WELDS SHALL BE 6mm CONTINUOUS FILLET WELDS U.N.O.
7. ALL WELDS SHALL BE S.P. QUALITY U.N.O. MINIMUM WELD STRENGTH SHALL BE 480MPa
8. FOR WELDING SYMBOLS USED REFER TO AS 1101.

- 9. ALL WELDING, BOTH SHOP AND FIELD, SHALL BE UNDERTAKEN BY A QUALIFIED WELDER AND SHALL COMPLY WITH AS 1554.
10. WHERE NOTED, CPBW SHALL BE TAKEN TO MEAN COMPLETE PENETRATION FULL STRENGTH BUTT WELD.
11. U.N.O. ALL STRUCTURAL STEELWORK INCLUDING BOLTS OTHER THAN STAINLESS STEEL SHALL BE HOT DIP GALVANISED TO AS 4680 WITH HDG 600
12. CONNECTIONS WITH DISSIMILAR MATERIALS SHOULD BE SEPARATED WITH A NEOPRENE OR NYLON SEPARATOR
13. GRIND OFF ALL SHARP EDGES AFTER FABRICATION AND PRIOR TO ANY COATING

STAINLESS STEEL:

- 1. STAINLESS STEEL SHALL COMPLY WITH REQUIREMENTS OF THE TMS 1434.
2. ALL STAINLESS STEEL (SS) SHALL BE GRADE 316 UNLESS NOTED OTHERWISE. DUPLEX SS FOR GATES
3. ALL WELDS SHALL BE 6mm CONTINUOUS FILLET WELD, UNLESS NOTED OTHERWISE.
4. WELDING OF STAINLESS STEEL INCLUDING CLEANING, PICKLING AND PASSIVATION SHALL COMPLY WITH AS1554 06 AND AWRA 16 TECHNICAL NOTE
WELDING OF STAINLESS STEEL
5. STAINLESS STEEL ITEMS SHALL HAVE A SURFACE FINISH OF 2B OR BETTER WITH ACID PASSIVATION AFTER FABRICATION
6. ALL HD BOLTS SHALL BE GRADE 316 HAS-U SS BOLTS WITH HIT-RE 500 INJECTION. DUPLEX SS FOR GATES
7. ALL STRUCTURAL BOLTS SHALL BE GRADE 316 A4-80 U.N.O. DUPLEX SS FOR GATES

CHEMICAL ANCHORS

- 1. ALL ANCHORS MUST COMPLY WITH THE REQUIREMENTS OF SA TS 101:2015
2. ALL FASTENERS MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS USING THE TOOLS WHICH ARE INDICATED IN THE PRODUCT'S TEST REPORT
3. INSTALLATION SHALL BE PERFORMED BY AN 'AEFAC' CERTIFIED INSTALLER OR BY A PERSON TRAINED BY THE MANUFACTURER/ SUPPLIER OF THE SPECIFIED PRODUCT
4. ALL ANCHOR HOLES MUST BE HAMMER DRILLED
5. THE DESIGN ENGINEER MUST BE CONSULTED FOR THE APPROVAL OF AN ALTERNATE PRODUCT OR DRILLING METHOD
6. EPOXIES USED TO FIX CHEMICAL ANCHORS INTO SOLID CONCRETE SHALL BE HILTI HIT-RE 500 V3 U.N.O.
7. ALL ANCHOR STUDS SHALL BE FULLY THREADED STAINLESS STEEL A4-70 STUDS U.N.O.
8. WHERE CHEMICAL ANCHORS ARE TO BE USED, THE REINFORCEMENT SHALL BE REPOSITIONED LOCALLY SO AS TO AVOID CLASHES WITH THE ANCHOR INSTALLATION
9. REINFORCEMENT IS TO BE SCANNED PRIOR TO INSTALLATION OF CHEMICAL ANCHORS
10. ALL REINFORCEMENT EXPOSED DURING CORING IS TO BE COATED WITH TWO COATS OF ZINCRICH NITOPRIME.

ALUMINIUM:

- 1. ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH AS/NZS 1866
2. ALL MATERIALS SHALL BE IN ACCORDANCE WITH AS/NZS 1734, AS/NZS 1865, AS/NZS 1866 OR AS/NZS 1867.
3. FABRICATED ALUMINIUM HANDRAILS AND STAIRWAYS SHALL COMPLY WITH AS1657
4. ALL METALWORK CONNECTIONS NOT SHOWN BOLTED SHALL BE WELDED AS FOLLOWS:
BUTT WELDS SHALL BE QUALITY 'A' IN ACCORDANCE WITH AS 1665.
FILLET WELDS SHALL BE QUALITY 'B' IN ACCORDANCE WITH AS 1665.
WELDS SHALL BE CONTINUOUS 6mm FILLET OR FULL PENETRATION BUTT WELDS ALL ROUND USING FILLER ALLOY 5556.
ALL JOINTS SHALL BE FULLY SEAL WELDED U.N.O.
ALL FILLER SHALL BE 5183, 5356 OR 5556 ALLOY FILLER WIRE.
GRIND OFF ALL SHARP EDGES AFTER FABRICATION.
5. ALL ALUMINIUM SURFACES PLACED IN CONTACT WITH CONCRETE SHALL BE PAINTED WITH TWO HEAVY COATS OF ALKALI-RESISTANT BITUMINOUS PAINT.

RSWT: MDCS: NAME: Andrew Doco (Bundaberg) Levee/30034151-SMC-GPRWS-M03-RVT-0001.rvt

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Table with columns: INDEX, DATE, PRELIMINARY DESIGN, REVISIONS, DRAWN, CHECKED, PASSED, INITIALS, DATE. Includes revision history for 23/05/24.

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PRINCIPAL CONSULTANT logo for SMEC, Member of the Surbana Jurong Group.

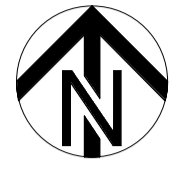
MANAGING CONTRACTOR logo for 30034151.

30034151 BUNDBERG EAST LEVEE GENERAL NOTES

Table with columns: PRINCIPAL, DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS, SHEET OF SHEETS, SCALE, REVISION DATE, REVISION, DISCIPLINE CODE, STRUCTURAL, DRAWING NO. 30034151-SMC-GPRWS-S-DRG 0101.

PRELIMINARY

23/05/24



PLAN- GENERAL ARRANGEMENT

SCALE 1 : 2000

PROJECT NAME: Bundaberg East Levee; PROJECT NO: 30034151; SHEET NO: S-DRG 0110; DATE: 23/05/24

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1	23/05/24	PRELIMINARY DESIGN	SJ	RT	RT		

PRINCIPAL

Queensland Government
1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA

PRINCIPAL CONSULTANT

SMC
Member of the Surlana Jurong Group

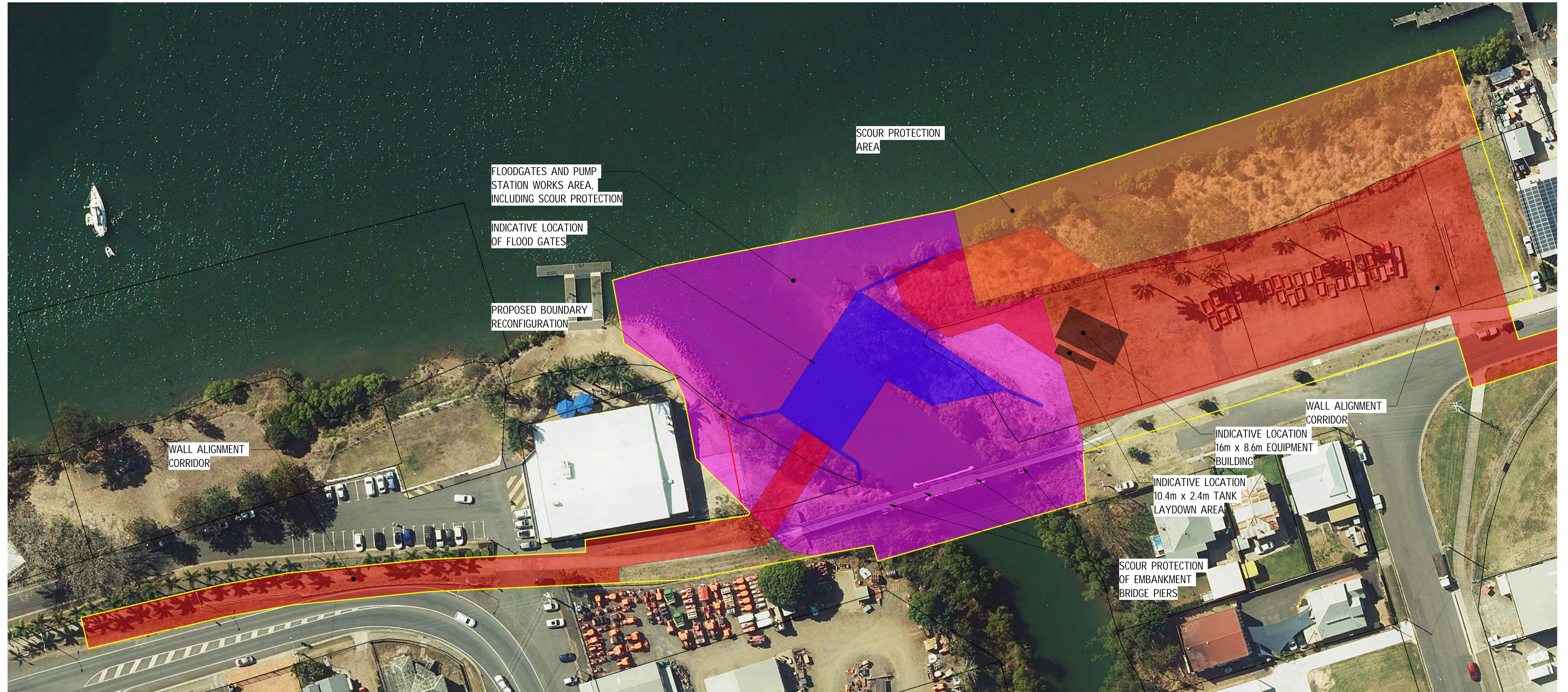
MANAGING CONTRACTOR

30034151
BUNDABERG EAST LEVEE
GENERAL ARRANGEMENT

PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS		
SHEET	OF	SHEETS	SCALE 1 : 2000
REVISION DATE	23/05/24	REVISION	1
DISCIPLINE CODE	STRUCTURAL		
DRAWING NO.	30034151- SMC- GPRW-S-DRG 0110		

PRELIMINARY

23/05/24



PLAN - GENERAL ARRANGEMENT CONSTRUCTION FOOTPRINT AREA 1

SCALE 1 : 500

LABELS LEGEND



CONSTRUCTION FOOTPRINT WALL AND ASSOCIATED WORKS



CONSTRUCTION FOOTPRINT WATER CROSSING



SCOUR PROTECTION



CREEK CROSSING WORKS



MID BOUNDARY

A1

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1	23/05/24			SJ	RT	RT		23/05/24



MANAGING CONTRACTOR

30034151
 BUNDABERG EAST LEVEE
 GENERAL ARRANGEMENT - CONSTRUCTION AREA 1

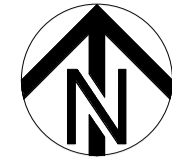
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SHEET OF	SHEETS	SCALE	As indicated
REVISION DATE	23/05/24	REVISION	1
DISCIPLINE CODE	STRUCTURAL		
DRAWING NO.	30034151- SMC- GPRW-S-DRG 0111		

REVIT MODEL NAME: Bundaberg East Levee; AutoCAD Docx: Bundaberg East Levee; 30034151-SMC-GPRW-S-DRG-0111.rvt

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PRELIMINARY

23/05/24



PLAN - GENERAL ARRANGEMENT CONSTRUCTION FOOTPRINT AREA 2
SCALE 1 : 500

LABELS LEGEND



CONSTRUCTION FOOTPRINT
WALL AND ASSOCIATED WORKS



MID BOUNDARY



CONSTRUCTION FOOTPRINT
WATER CROSSING



SCOUR PROTECTION



CREEK CROSSING WORKS

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1	23/05/24	PRELIMINARY DESIGN	SJ	RT	RT

DRAWN	CHECKED	PASSED	INITIALS	DATE
SJ	RT	RT		23/05/24



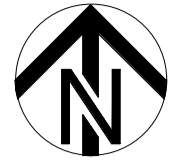
MANAGING CONTRACTOR

30034151
BUNDABERG EAST LEVEE
GENERAL ARRANGEMENT - CONSTRUCTION AREA 2

PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS		
SHEET OF	SHEETS	SCALE	As indicated
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DRAWING NO.	30034151- SMC- GPRW-S-DRG 0112		

PRELIMINARY

23/05/24



PLAN - GENERAL ARRANGEMENT CONSTRUCTION FOOTPRINT AREA 3

SCALE 1 : 500

LABELS LEGEND



CONSTRUCTION FOOTPRINT WALL AND ASSOCIATED WORKS



MID BOUNDARY



CONSTRUCTION FOOTPRINT WATER CROSSING



SCOUR PROTECTION



CREEK CROSSING WORKS

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MANAGING CONTRACTOR

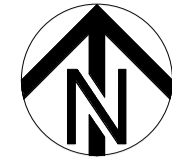
30034151
BUNDABERG EAST LEVEE
GENERAL ARRANGEMENT - CONSTRUCTION AREA 3

PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS		
SHEET	OF	SHEETS	SCALE As indicated
REVISION DATE	23/05/24	REVISION	1
DISCIPLINE CODE	STRUCTURAL		
DRAWING NO.	30034151- SMC- GPRW-S-DRG 0113		

REVIT MODEL NAME: Bundaberg_Levee/30034151_SMC-GPRW-S-DRG-001.rvt

PRELIMINARY

23/05/24



PLAN - GENERAL ARRANGEMENT CONSTRUCTION FOOTPRINT AREA 4
SCALE 1 : 500

LABELS LEGEND



CONSTRUCTION FOOTPRINT WALL AND ASSOCIATED WORKS



MID BOUNDARY



CONSTRUCTION FOOTPRINT WATER CROSSING



SCOUR PROTECTION



CREEK CROSSING WORKS

A1

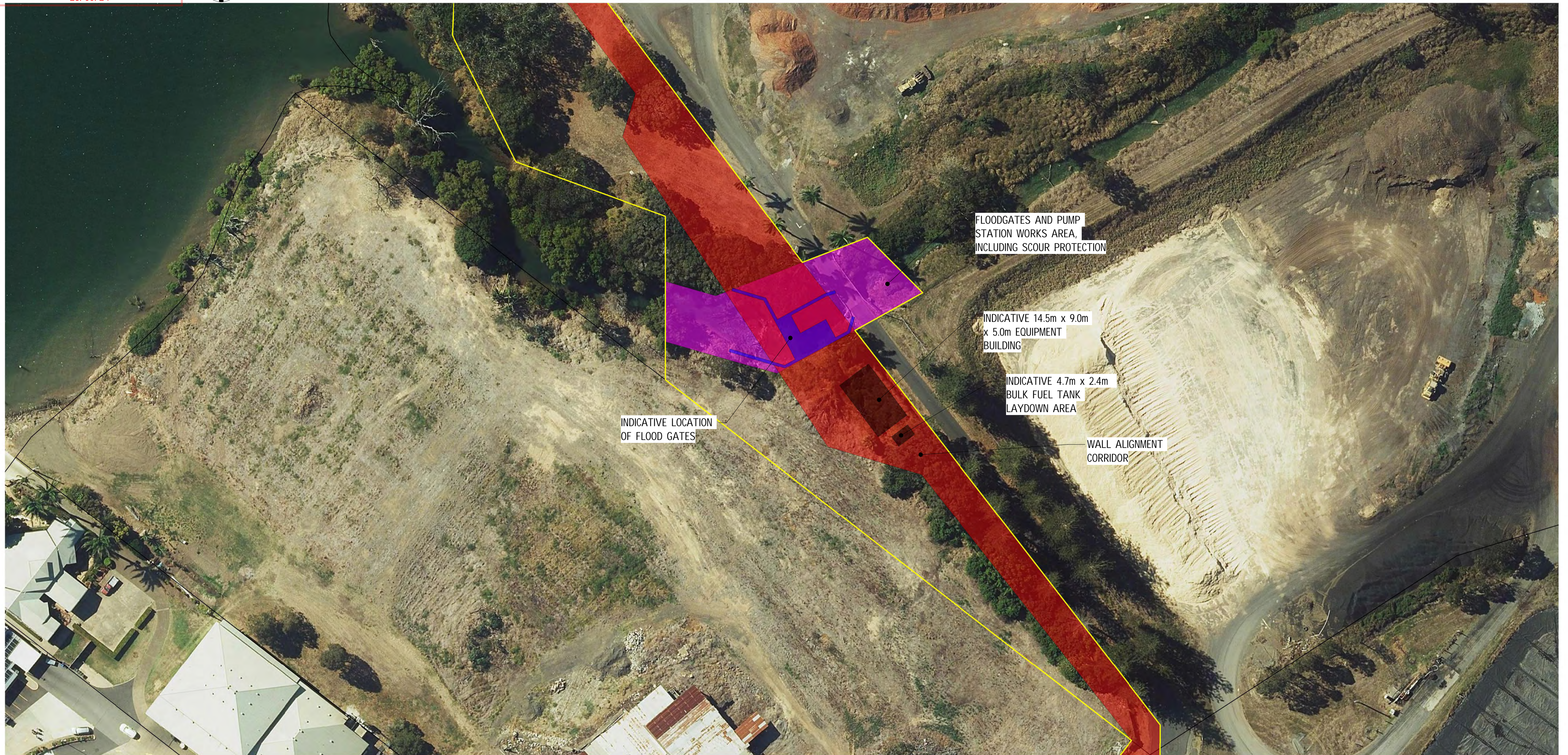
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1	23/05/24			SJ	RT	RT		





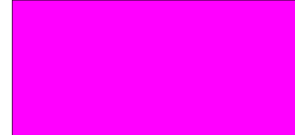


MANAGING CONTRACTOR

30034151
BUNDABERG EAST LEVEE
GENERAL ARRANGEMENT - CONSTRUCTION AREA 4

PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS		
SHEET OF	SHEETS	SCALE	As indicated
REVISION DATE	23/05/24	REVISION	1
DISCIPLINE CODE	STRUCTURAL		
DRAWING NO.	30034151- SMC- GPRW-S-DRG 0114		



LABELS LEGEND

	CONSTRUCTION FOOTPRINT WALL AND ASSOCIATED WORKS		MID BOUNDARY
	CONSTRUCTION FOOTPRINT WATER CROSSING		
	SCOUR PROTECTION		
	CREEK CROSSING WORKS		

PLAN - GENERAL ARRANGEMENT CONSTRUCTION FOOTPRINT AREA 5

SCALE 1 : 500

A1

INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE
1	23/05/24	PRELIMINARY DESIGN	SJ	RT	RT		23/05/24



MANAGING CONTRACTOR

30034151
BUNDABERG EAST LEVEE
GENERAL ARRANGEMENT - CONSTRUCTION AREA 5

PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS		
SHEET OF	SHEETS	SCALE	As indicated
REVISION DATE	23/05/24	REVISION	1
DISCIPLINE CODE	STRUCTURAL		
DRAWING NO.	30034151- SMC- GPRW-S-DRG 0115		

PRELIMINARY

23/05/24



WALL ALIGNMENT CORRIDOR

PLAN - GENERAL ARRANGEMENT CONSTRUCTION FOOTPRINT AREA 6

SCALE 1 : 500

LABELS LEGEND



CONSTRUCTION FOOTPRINT WALL AND ASSOCIATED WORKS



MID BOUNDARY



CONSTRUCTION FOOTPRINT WATER CROSSING



SCOUR PROTECTION



CREEK CROSSING WORKS

A1

INDEX	DATE	PRELIMINARY DESIGN	REVISIONS	DRAWN	CHECKED	PASSED
1	23/05/24			SJ	RT	RT

DRAWN	SJ	23/05/24
CHECKED	RT	23/05/24
PASSED	RT	23/05/24
INITIALS		DATE

PRINCIPAL

1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA

PRINCIPAL CONSULTANT

Member of the Surbana Jurong Group

MANAGING CONTRACTOR

30034151

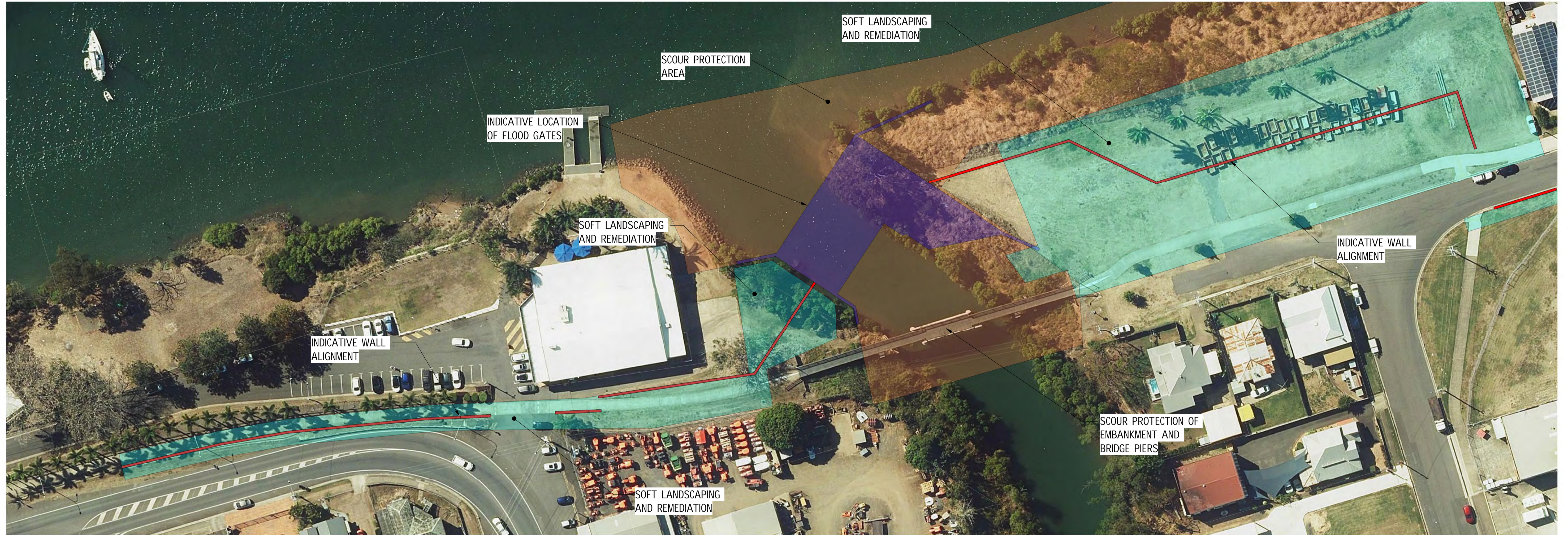
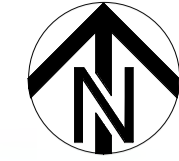
BUNDABERG EAST LEVEE
GENERAL ARRANGEMENT - CONSTRUCTION AREA 6

PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS
SHEET OF SHEETS	SCALE As indicated
REVISION DATE	REVISION 1
DISCIPLINE CODE	STRUCTURAL
DRAWING NO.	30034151- SMC- GPRW-S-DRG 0116

REVIT MODEL NAME: Bundaberg East Levee 30034151 SMC GPRW S-DRG 0116.rvt

PRELIMINARY

23/05/24



PLAN - GENERAL LANDSCAPING AREA 1

SCALE 1 : 500

LABELS LEGEND

 VISUAL AMENITY / LANDSCAPING AREA

 LEVEE WALL

 SCOUR PROTECTION

 CREEK CROSSING WORKS

NOTE:
GATES ACROSS DRIVEWAYS, ROADS AND FOOTPATHS ARE NOT SHOWN AS THESE WILL ONLY BE INSTALLED IN THE EVENT OF A PRESCRIBED EMERGENCY SITUATION.



A1

INDEX	DATE	PRELIMINARY DESIGN	REVISIONS	DRAWN	CHECKED	PASSED
1	23/05/24	PRELIMINARY DESIGN		SJ	RT	RT

DRAWN	CHECKED	PASSED	INITIALS	DATE
SJ	RT	RT		23/05/24

PRINCIPAL



1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA

PRINCIPAL CONSULTANT



Member of the Surlana Jurong Group

MANAGING CONTRACTOR

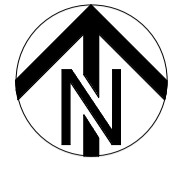
30034151
BUNDABERG EAST LEVEE
GENERAL ARRANGEMENT - LANDSCAPING AREA 1

PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS		
SHEET	OF	SHEETS	SCALE As indicated
REVISION DATE	23/05/24	REVISION	1
DISCIPLINE CODE	STRUCTURAL		
DRAWING NO.	30034151- SMC- GPRW-S-DRG 0120		

REVIT MODEL NAME: Bundaberg East Levee 30034151 SMC GPRW S-DRG 0120.rvt

PRELIMINARY

23/05/24



PLAN - GENERAL LANDSCAPING AREA 2

SCALE 1 : 500

LABELS LEGEND

 VISUAL AMENITY / LANDSCAPING AREA

 LEVEE WALL

 SCOUR PROTECTION

 CREEK CROSSING WORKS

NOTE:
GATES ACROSS DRIVEWAYS, ROADS AND FOOTPATHS ARE NOT SHOWN AS THESE WILL ONLY BE INSTALLED IN THE EVENT OF A PRESCRIBED EMERGENCY SITUATION.

SCALE 1:500 

A1

INDEX	DATE	PRELIMINARY DESIGN	REVISIONS	DRAWN	CHECKED	PASSED
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DRAWN	CHECKED	PASSED	INITIALS	DATE
SJ	RT	RT		23/05/24

PRINCIPAL



1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA

PRINCIPAL CONSULTANT



Member of the Surbana Jurong Group

MANAGING CONTRACTOR

30034151

BUNDABERG EAST LEVEE
GENERAL ARRANGEMENT - LANDSCAPING AREA 2

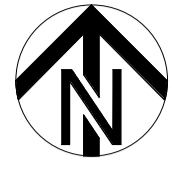
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REVIT MODEL NAME: Bundaberg East Levee 30034151 SMC GPRW S DRG 0121.rvt

23/05/2024 1:19:54 PM

PRELIMINARY

23/05/24



PLAN - GENERAL LANDSCAPING AREA 3
SCALE 1 : 500

LABELS LEGEND

 VISUAL AMENITY / LANDSCAPING AREA

 LEVEE WALL

 SCOUR PROTECTION

 CREEK CROSSING WORKS

NOTE:
GATES ACROSS DRIVEWAYS, ROADS AND FOOTPATHS ARE NOT SHOWN AS THESE WILL ONLY BE INSTALLED IN THE EVENT OF A PRESCRIBED EMERGENCY SITUATION.

SCALE 1:500 

A1

INDEX	DATE	DESCRIPTION	DRAWN	CHECKED	PASSED
1	23/05/24	PRELIMINARY DESIGN	SJ	RT	RT

DRAWN	CHECKED	PASSED	INITIALS	DATE
SJ	RT	RT		23/05/24

PRINCIPAL



1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA

PRINCIPAL CONSULTANT



Member of the Surbana Jurong Group

MANAGING CONTRACTOR

30034151

BUNDABERG EAST LEVEE
GENERAL ARRANGEMENT - LANDSCAPING AREA 3

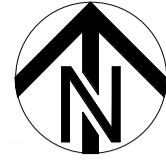
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DRAWING NO.	30034151- SMC- GPRW-S-DRG 0122

PROJECT MODEL NAME: Bundaberg East Levee 30034151 SMC GPRW S-DRG 0122 RVT 0001.rvt

23/05/2024 1:19:57 PM

PRELIMINARY

23/05/24



PLAN - GENERAL LANDSCAPING AREA 4

SCALE 1 : 500

LABELS LEGEND

VISUAL AMENITY / LANDSCAPING AREA

LEVEE WALL

SCOUR PROTECTION

CREEK CROSSING WORKS

NOTE: GATES ACROSS DRIVEWAYS, ROADS AND FOOTPATHS ARE NOT SHOWN AS THESE WILL ONLY BE INSTALLED IN THE EVENT OF A PRESCRIBED EMERGENCY SITUATION.



A1

INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED
1	23/05/24	PRELIMINARY DESIGN	SJ	RT	RT

DRAWN	SJ	23/05/24
CHECKED	RT	23/05/24
PASSED	RT	23/05/24
INITIALS	DATE	

PRINCIPAL

1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA

PRINCIPAL CONSULTANT

Member of the Surlana Jurong Group

MANAGING CONTRACTOR

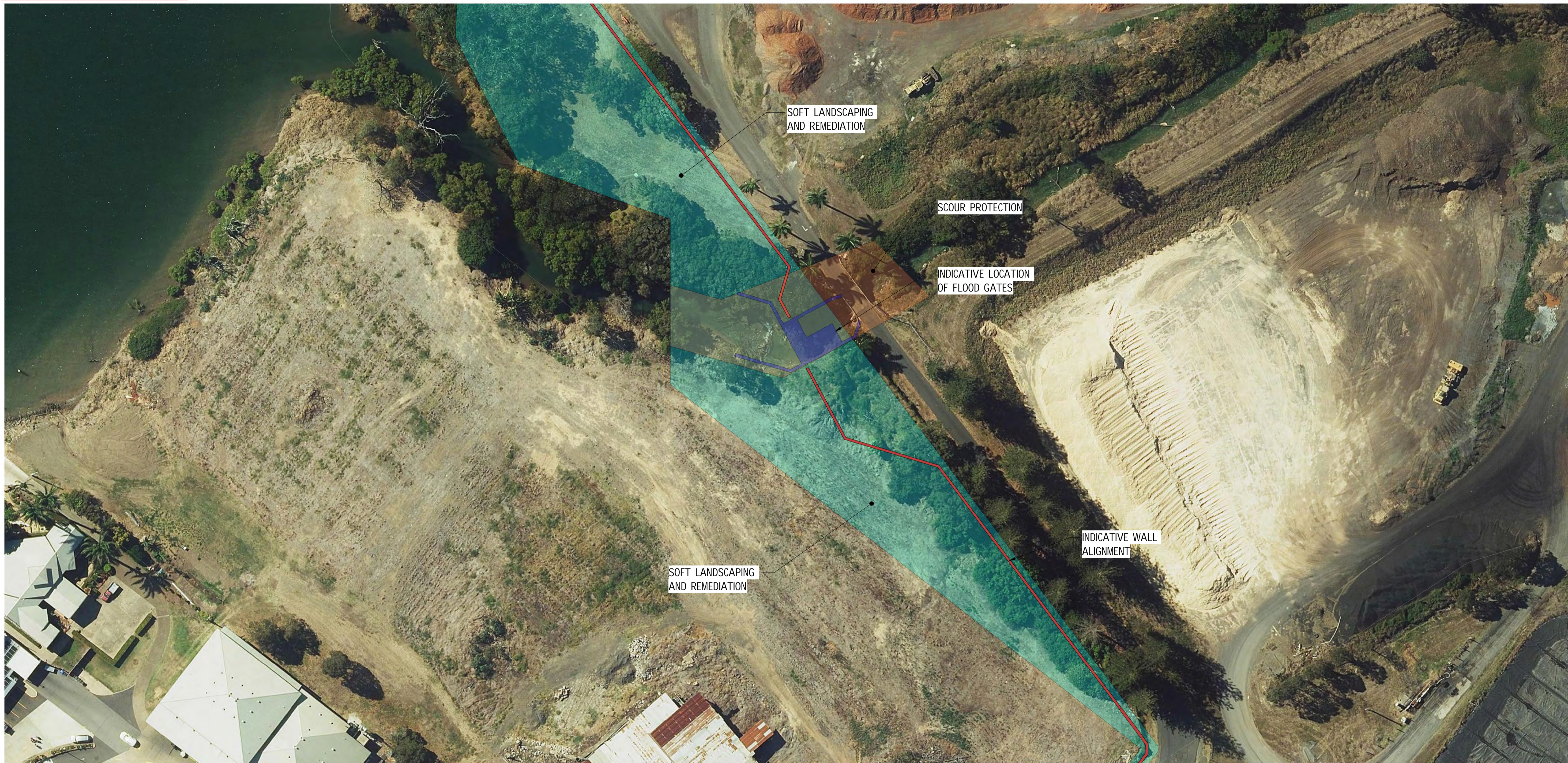
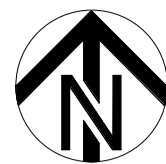
30034151

BUNDABERG EAST LEVEE
GENERAL ARRANGEMENT - LANDSCAPING AREA 4

PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS		
SHEET OF	SHEETS	SCALE	As indicated
REVISION DATE	23/05/24	REVISION	1
DISCIPLINE CODE	STRUCTURAL		
DRAWING NO.	30034151- SMC- GPRW-S-DRG 0123		

PRELIMINARY

23/05/24



LABELS LEGEND

- VISUAL AMENITY / LANDSCAPING AREA
- LEVEE WALL
- SCOUR PROTECTION
- CREEK CROSSING WORKS

NOTE:
GATES ACROSS DRIVEWAYS, ROADS AND FOOTPATHS ARE NOT SHOWN AS THESE WILL ONLY BE INSTALLED IN THE EVENT OF A PRESCRIBED EMERGENCY SITUATION.

PLAN - GENERAL LANDSCAPING AREA 5

SCALE 1 : 500



A1

INDEX	DATE	PRELIMINARY DESIGN	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE
1	23/05/24	PRELIMINARY DESIGN		SJ	RT	RT		

PRINCIPAL

1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA

PRINCIPAL CONSULTANT

Member of the Surbana Jurong Group

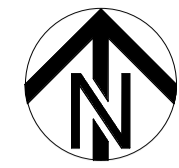
MANAGING CONTRACTOR

30034151

BUNDABERG EAST LEVEE
GENERAL ARRANGEMENT - LANDSCAPING AREA 5

PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS
SHEET OF SHEETS	SCALE As indicated
REVISION DATE	REVISION
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DISCIPLINE CODE	STRUCTURAL
DRAWING NO.	30034151- SMC- GPRW-S-DRG 0124

PROJECT MODEL NAME: Bundaberg East Levee 30034151 SMC GPRW S DRG 001.rvt



SOFT LANDSCAPING AND REMEDIATION

INDICATIVE WALL ALIGNMENT

LABELS LEGEND

- VISUAL AMENITY / LANDSCAPING AREA
- LEVEE WALL
- SCOUR PROTECTION
- CREEK CROSSING WORKS

NOTE:
GATES ACROSS DRIVEWAYS, ROADS AND FOOTPATHS ARE NOT SHOWN AS THESE WILL ONLY BE INSTALLED IN THE EVENT OF A PRESCRIBED EMERGENCY SITUATION.

PLAN - GENERAL LANDSCAPING AREA 6
SCALE 1 : 500



A1

INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE
1	23/05/24	PRELIMINARY DESIGN	SJ	RT	RT		

PRINCIPAL

1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA

PRINCIPAL CONSULTANT

Member of the Surlana Jurong Group

MANAGING CONTRACTOR

30034151

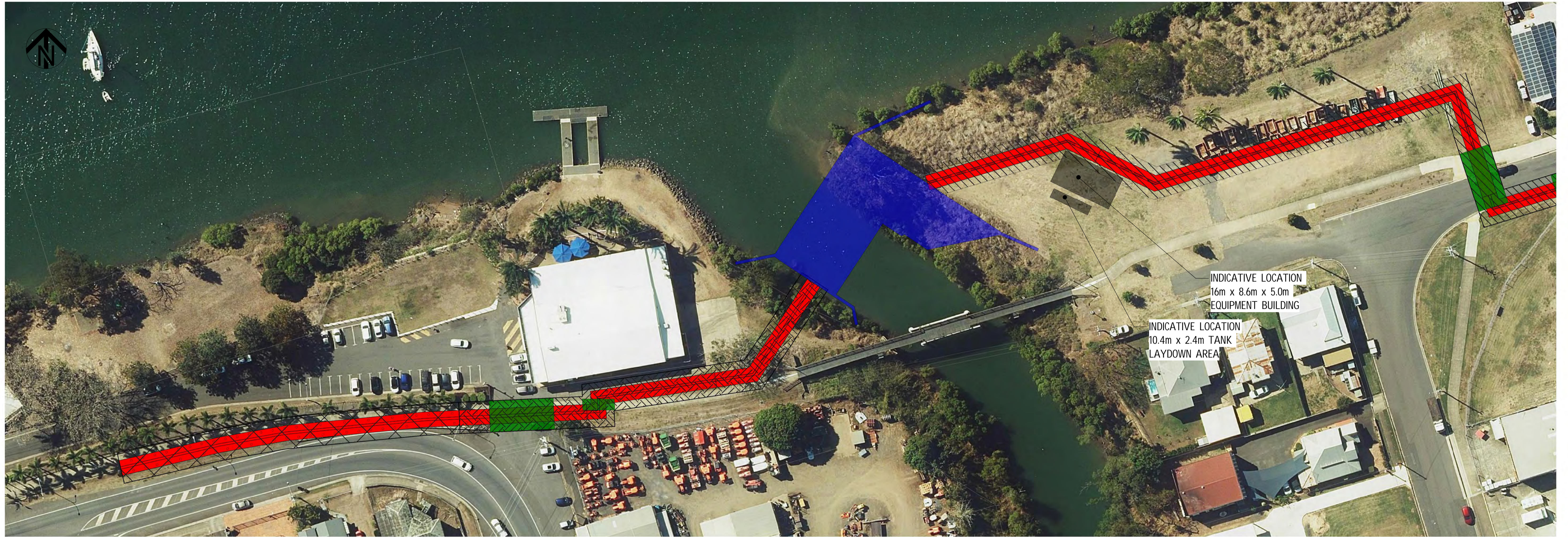
BUNDABERG EAST LEVEE
GENERAL ARRANGEMENT - LANDSCAPING AREA 6

PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS		
SHEET OF SHEETS	SCALE	As indicated	
REVISION DATE	23/05/24	REVISION	1
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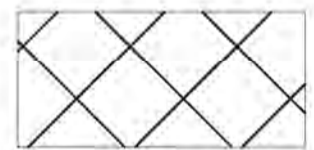
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23/05/24



PLAN - GENERAL ARRANGEMENT PILES AREA 1
SCALE 1 : 500

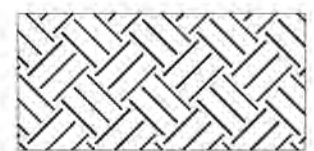
LABELS LEGEND



TEMPORARY BARRIER



PROPOSED DEPLOYABLE
STOP-LOG GATE LOCATION



ZONE 1



ZONE 2

SCALE 1:500

A1

INDEX	DATE	PRELIMINARY DESIGN	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE
1	23/05/24			SJ	RT	RT		23/05/24

PRINCIPAL

1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA

PRINCIPAL CONSULTANT

Member of the Surlana Jurong Group
SMC PROJECT No 30034151

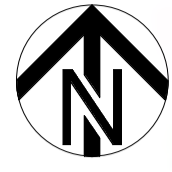
MANAGING CONTRACTOR

30034151
BUNDABERG EAST LEVEE
GENERAL ARRANGEMENT - PILES AREA 1
AND LONG SECTIONS

PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS		
SHEET OF	SHEETS	SCALE	As indicated
REVISION DATE	23/05/24	REVISION	1
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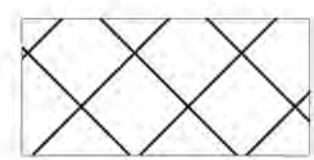
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23/05/24



PLAN - GENERAL ARRANGEMENT PILES AREA 2
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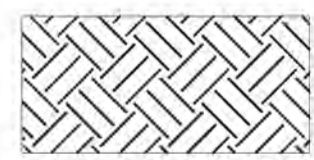
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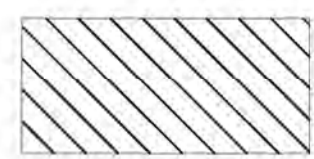
TEMPORARY BARRIER



PROPOSED DEPLOYABLE
STOP-LOG GATE LOCATION



ZONE 1



ZONE 2



A1

INDEX	DATE	PRELIMINARY DESIGN	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE
1	23/05/24			SJ	RT	RT		23/05/24

DRAWN	SJ	23/05/24
CHECKED	RT	23/05/24
PASSED	RT	23/05/24

PRINCIPAL

1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA

PRINCIPAL CONSULTANT

Member of the Surlana Jurong Group

MANAGING CONTRACTOR

30034151

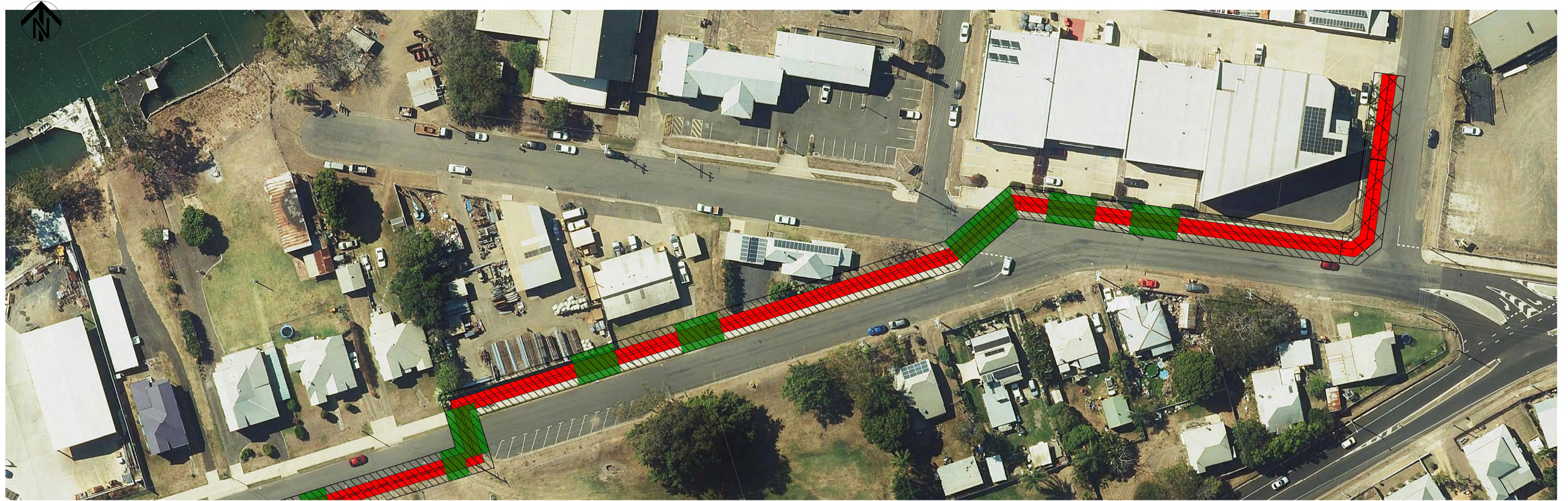
BUNDABERG EAST LEVEE
GENERAL ARRANGEMENT - PILES AREA 2

PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS		
SHEET	OF SHEETS	SCALE	As indicated
REVISION DATE	23/05/24	REVISION	1
DISCIPLINE CODE	STRUCTURAL		
DRAWING NO.	30034151- SMC- GPRW-S-DRG 0131		

REVIT MODEL NAME: Bundaberg East Levee; Autodesk Docs: Bundaberg East Levee; 30034151-SMC-GPRW-S-DRG-001.rvt





PRELIMINARY

23/05/24



PLAN - GENERAL ARRANGEMENT PILES AREA 3
SCALE 1 : 500

LABELS LEGEND

	TEMPORARY BARRIER		PROPOSED DEPLOYABLE STOP-LOG GATE LOCATION
	ZONE 1		
	ZONE 2		

SCALE 1:500



A1

INDEX	DATE	PRELIMINARY DESIGN	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE
1	23/05/24			SJ	RT	RT		23/05/24

PRINCIPAL



1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA

PRINCIPAL CONSULTANT



Member of the Surbana Jurong Group

MANAGING CONTRACTOR

30034151

BUNDABERG EAST LEVEE
GENERAL ARRANGEMENT - PILES AREA 3

PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS		
SHEET OF	SHEETS	SCALE	As indicated
REVISION DATE	23/05/24	REVISION	1
DISCIPLINE CODE	STRUCTURAL		
DRAWING NO.	30034151- SMC- GPRW-S-DRG 0132		

REVIT MODEL NAME: Autodesk Docs | Bundaberg | Level: 30034151 | SMC-GPRW-S-MD3-DRG-0001.rvt | 23/05/2024 1:20:20 PM

PRELIMINARY

23/05/24



PLAN - GENERAL ARRANGEMENT PILES AREA 4

SCALE 1 : 500

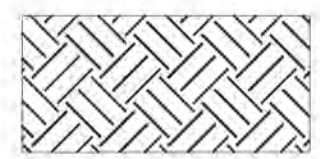
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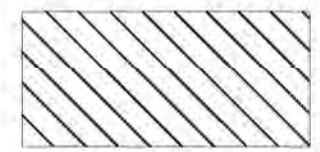
TEMPORARY BARRIER



PROPOSED DEPLOYABLE STOP-LOG GATE LOCATION



ZONE 1



ZONE 2



REVIT MODEL NAME: Autodesk Docs | Bundaberg Levee | 30034151-SMC-GPRW-S-DRG-001.rvt

A1

INDEX	DATE	PRELIMINARY DESIGN	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE
1	23/05/24			SJ	RT	RT		23/05/24

PRINCIPAL

1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA

PRINCIPAL CONSULTANT

Member of the Surbana Jurong Group

MANAGING CONTRACTOR

30034151

BUNDABERG EAST LEVEE
GENERAL ARRANGEMENT - PILES AREA 4

PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS		
SHEET OF SHEETS	SCALE	As indicated	
REVISION DATE	23/05/24	REVISION	1
DISCIPLINE CODE	STRUCTURAL		
DRAWING NO.	30034151-SMC-GPRW-S-DRG 0133		

PRELIMINARY

23/05/24



LABELS LEGEND



TEMPORARY BARRIER



PROPOSED DEPLOYABLE STOP-LOG GATE LOCATION



ZONE 1



ZONE 2

PLAN - GENERAL ARRANGEMENT PILES AREA 6

SCALE 1 : 500



A1

INDEX	DATE	PRELIMINARY DESIGN	REVISIONS	DRAWN	CHECKED	PASSED
1	23/05/24			SJ	RT	RT

DRAWN	SJ	23/05/24
CHECKED	RT	23/05/24
PASSED	RT	23/05/24
INITIALS		DATE

PRINCIPAL

1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA

PRINCIPAL CONSULTANT

Member of the Surbana Jurong Group

MANAGING CONTRACTOR

30034151

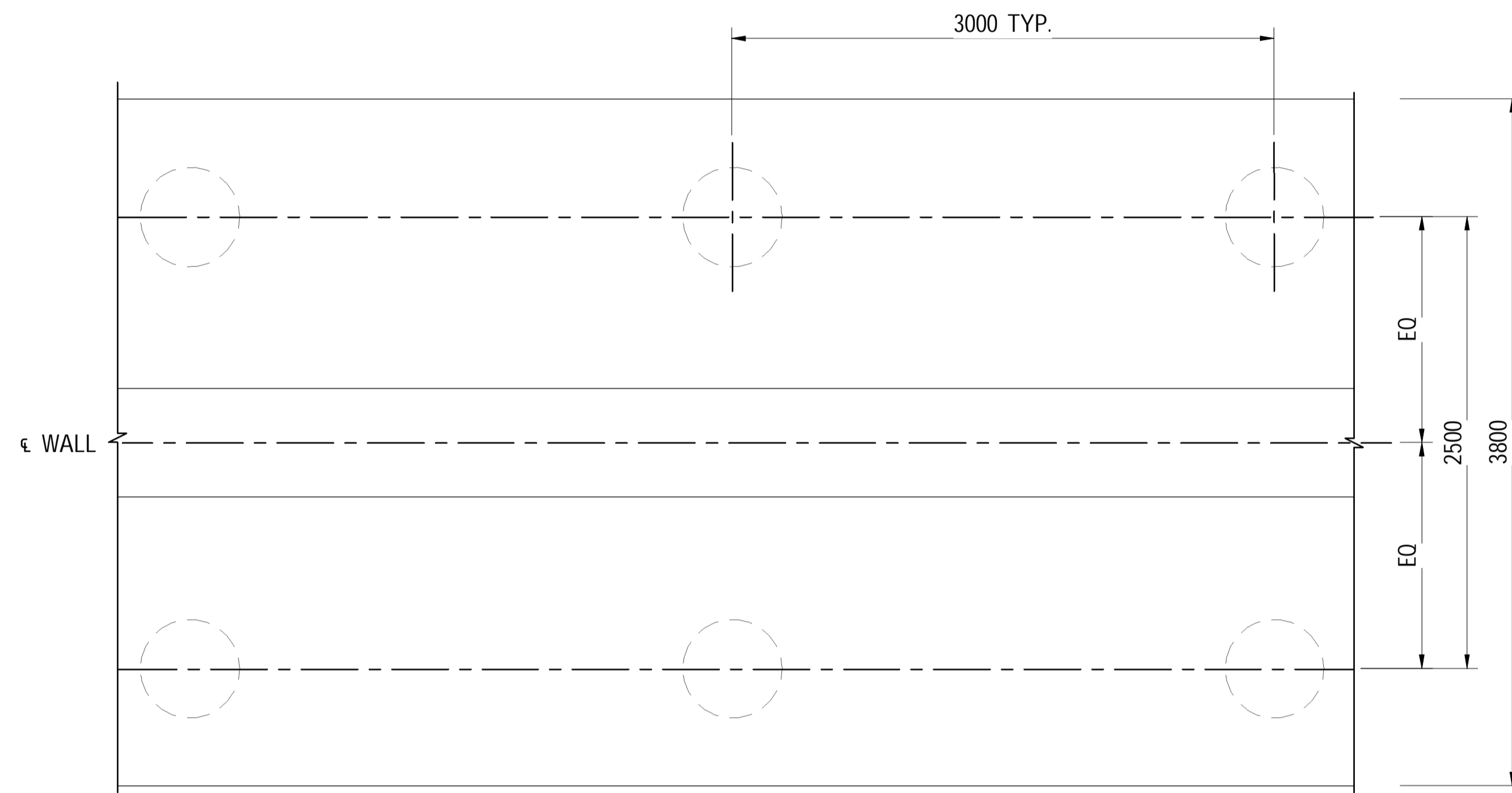
BUNDABERG EAST LEVEE
GENERAL ARRANGEMENT - PILES AREA 6

PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS	
SHEET	OF SHEETS	SCALE As indicated
REVISION DATE	23/05/24	REVISION 1
DISCIPLINE CODE	STRUCTURAL	
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REVIT MODEL NAME: Bundaberg East Levee 30034151 SMC GPRW S-DRG 0135.rvt

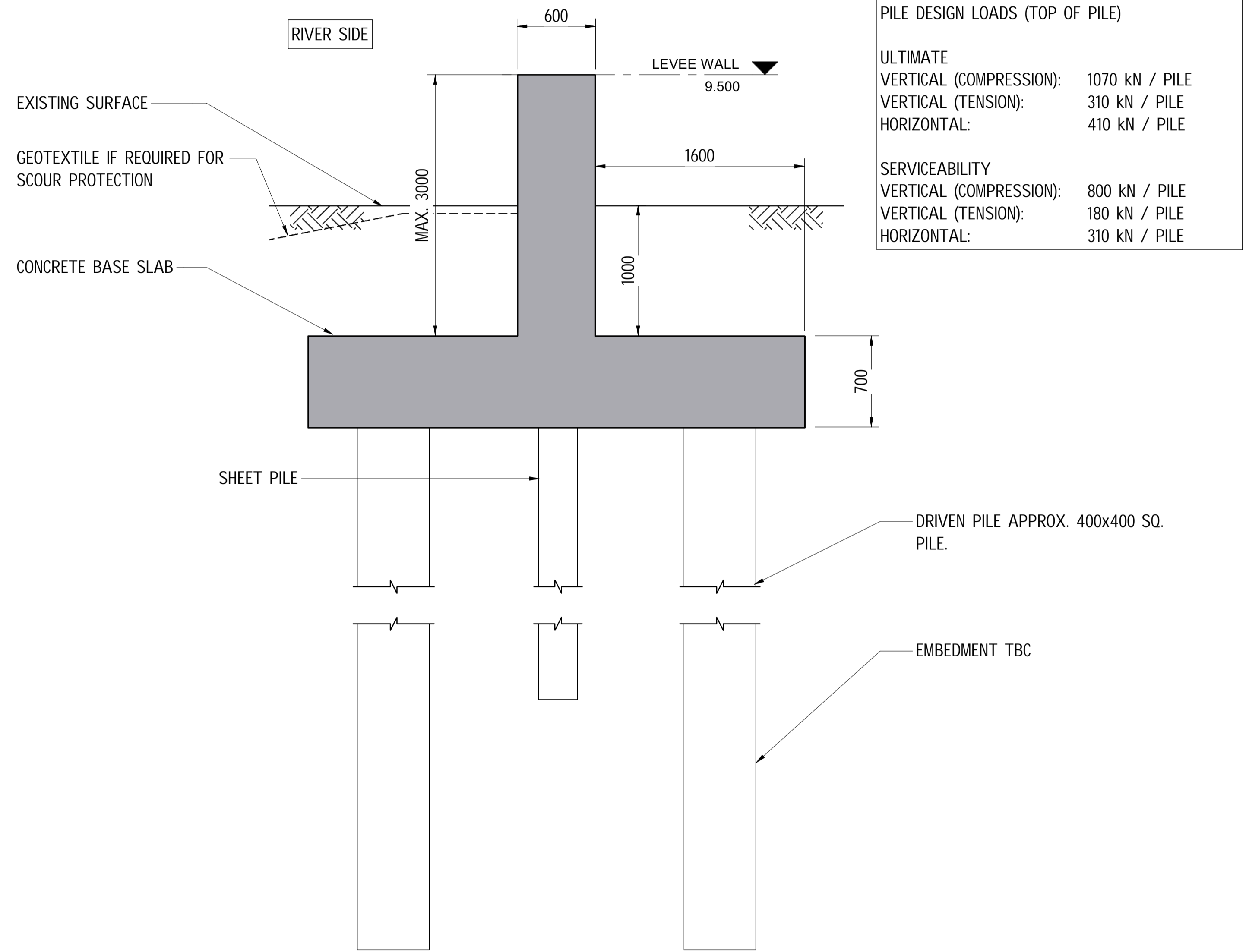
PRELIMINARY

23/05/24



ZONE 1 TYPE 2 PLAN
SCALE 1 : 25

WALL HEIGHT 1.0m - 2.0m
REINFORCEMENT 240 kg/m³



LEVEE WALL - ZONE 1 TYPE 2 - SECTION
SCALE 1 : 25

DESIGN ASSUMPTIONS:
ZONE 1 : MASS OF MOVING OBJECT - 20 TONNE
FLOW VELOCITY - 2.0 m/s
ZONE 2 : MASS OF MOVING OBJECT - 20 TONNE
FLOW VELOCITY - 1.3 m/s

SCALE 1:25

A1

INDEX	DATE	DESCRIPTION	DRAWN	CHECKED	PASSED	INITIALS	DATE
1	23/05/24	PRELIMINARY DESIGN	SJ	RT	RT		



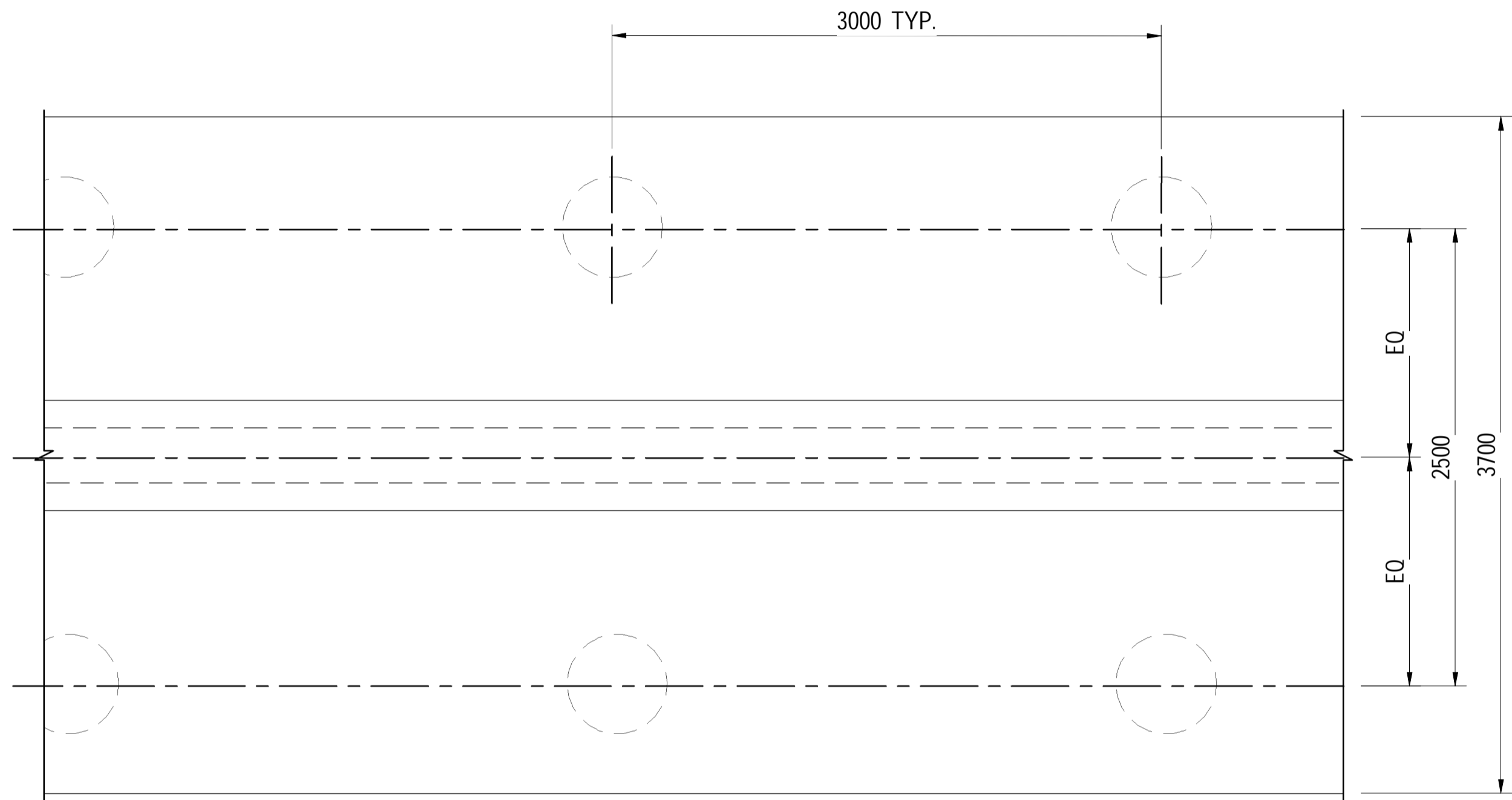
30034151
BUNDABERG EAST LEVEE
SECTIONS SHEET 2

PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS
SHEET OF SHEETS	SCALE 1 : 25
REVISION DATE	REVISION
23/05/24	1
DISCIPLINE CODE	STRUCTURAL
DRAWING NO.	30034151-SMC-GPRW-S-DRG 0151

REVIT MODEL NAME: Bundaberg East Levee 30034151-SMC-GPRW-S-DRG 0151.rvt

PRELIMINARY

23/05/24

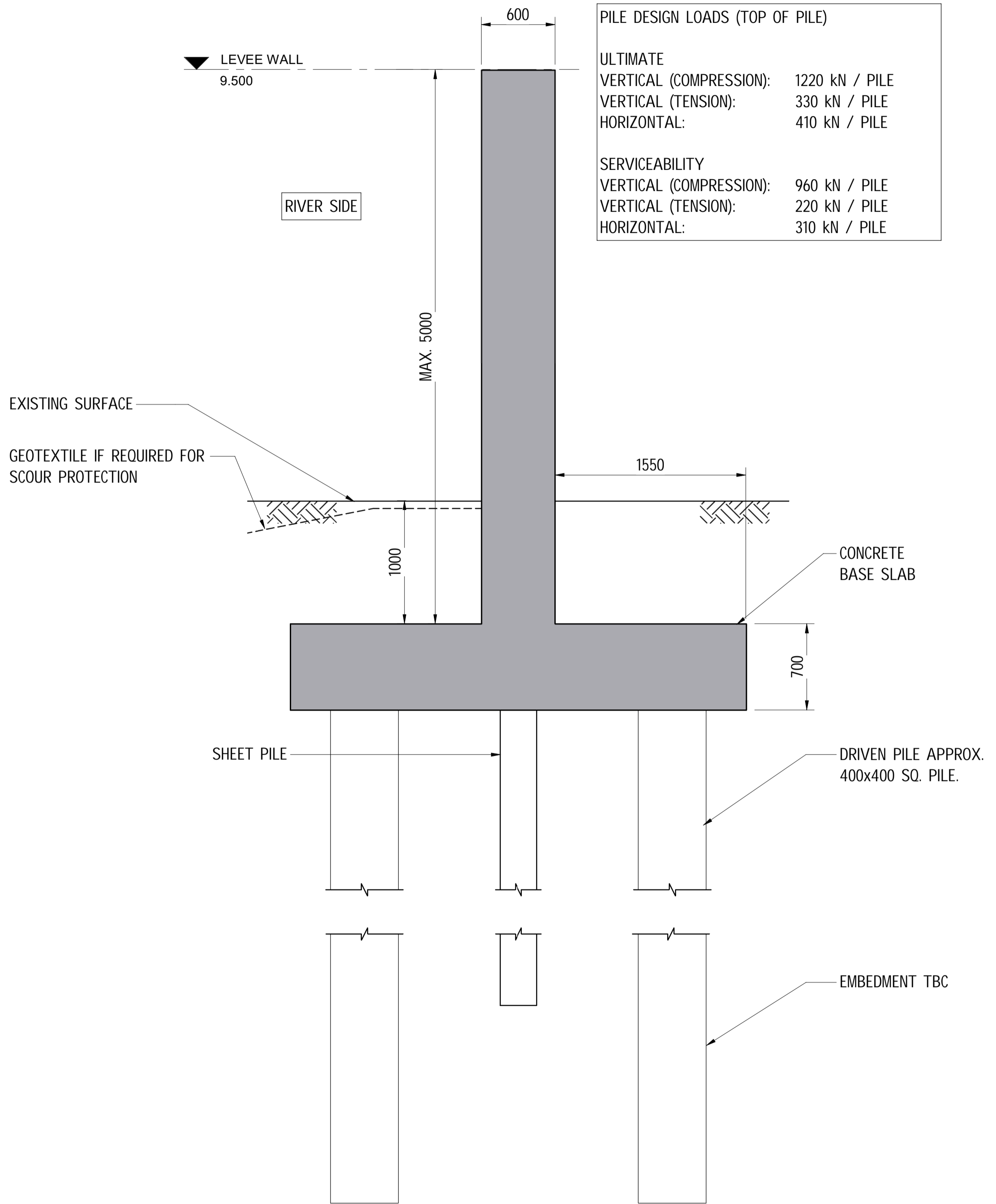


ZONE 2 TYPE 1 PLAN

SCALE 1 : 25
WALL HEIGHT 2.5m - 4.0m
REINFORCEMENT 220 kg/m³

DESIGN ASSUMPTIONS:
 ZONE 1 : MASS OF MOVING OBJECT - 20 TONNE
 FLOW VELOCITY - 2.0 m/s
 ZONE 2 : MASS OF MOVING OBJECT - 20 TONNE
 FLOW VELOCITY - 1.3 m/s

SCALE 1:25
 0.25 0 0.50 1.00



LEVEE WALL - ZONE 2 TYPE 1 - SECTION

SCALE 1 : 25

A1

INDEX	DATE	DESCRIPTION	DRAWN	CHECKED	PASSED	INITIALS	DATE
1	23/05/24	PRELIMINARY DESIGN	SJ	RT	RT		



MANAGING CONTRACTOR

30034151

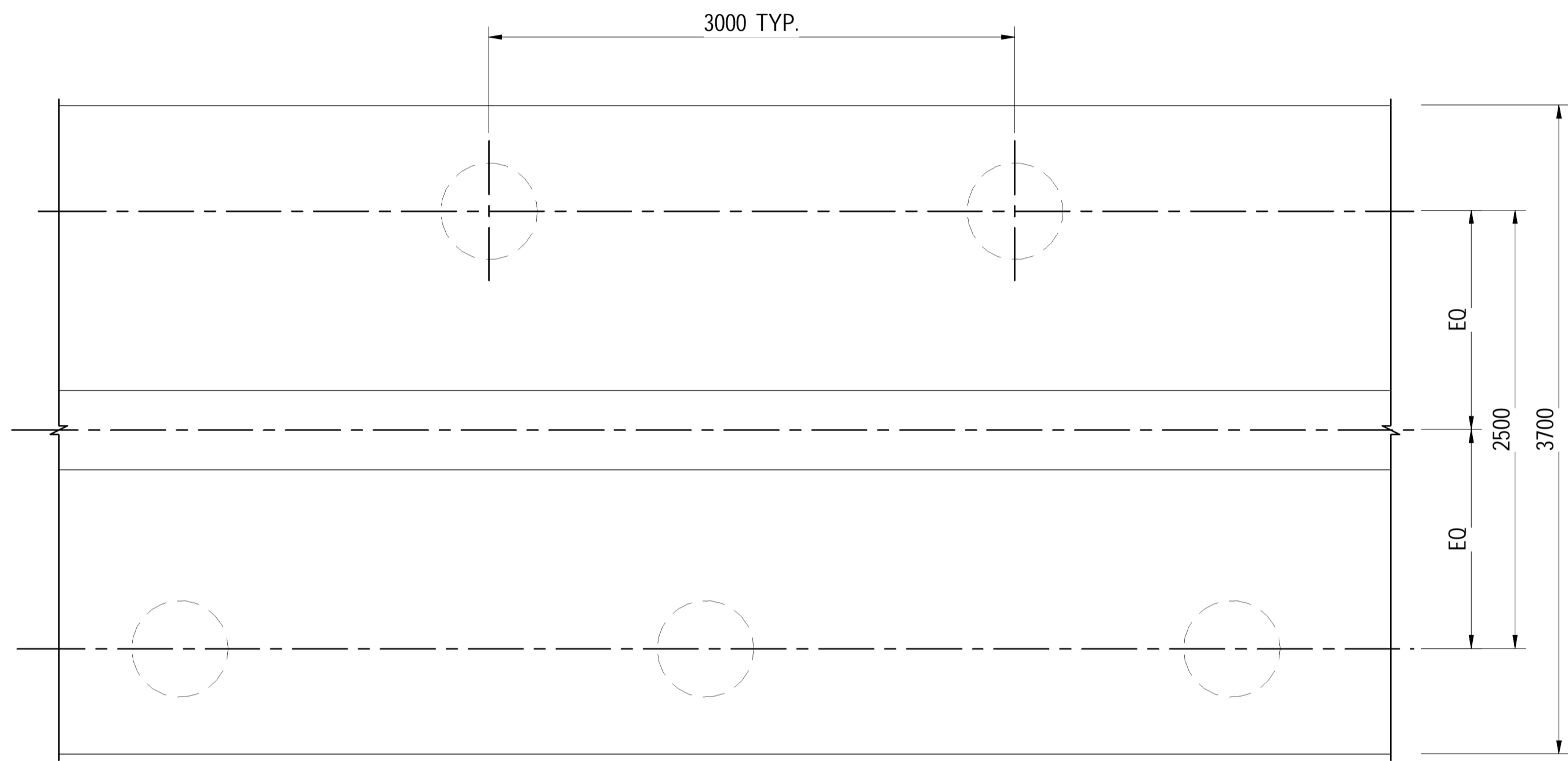
BUNDABERG EAST LEVEE
SECTIONS SHEET 3

PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS		
SHEET OF SHEETS	SCALE	1 : 25	
REVISION DATE	23/05/24	REVISION	1
DISCIPLINE CODE	STRUCTURAL		
DRAWING NO.	30034151-SMC-GPRW-S-DRG 0152		

REVIT MODEL NAME: Bundaberg Levee 30034151-SMC-GPRW-S-DRG 0152.rvt

PRELIMINARY

23/05/24



ZONE 2 TYPE 2 PLAN

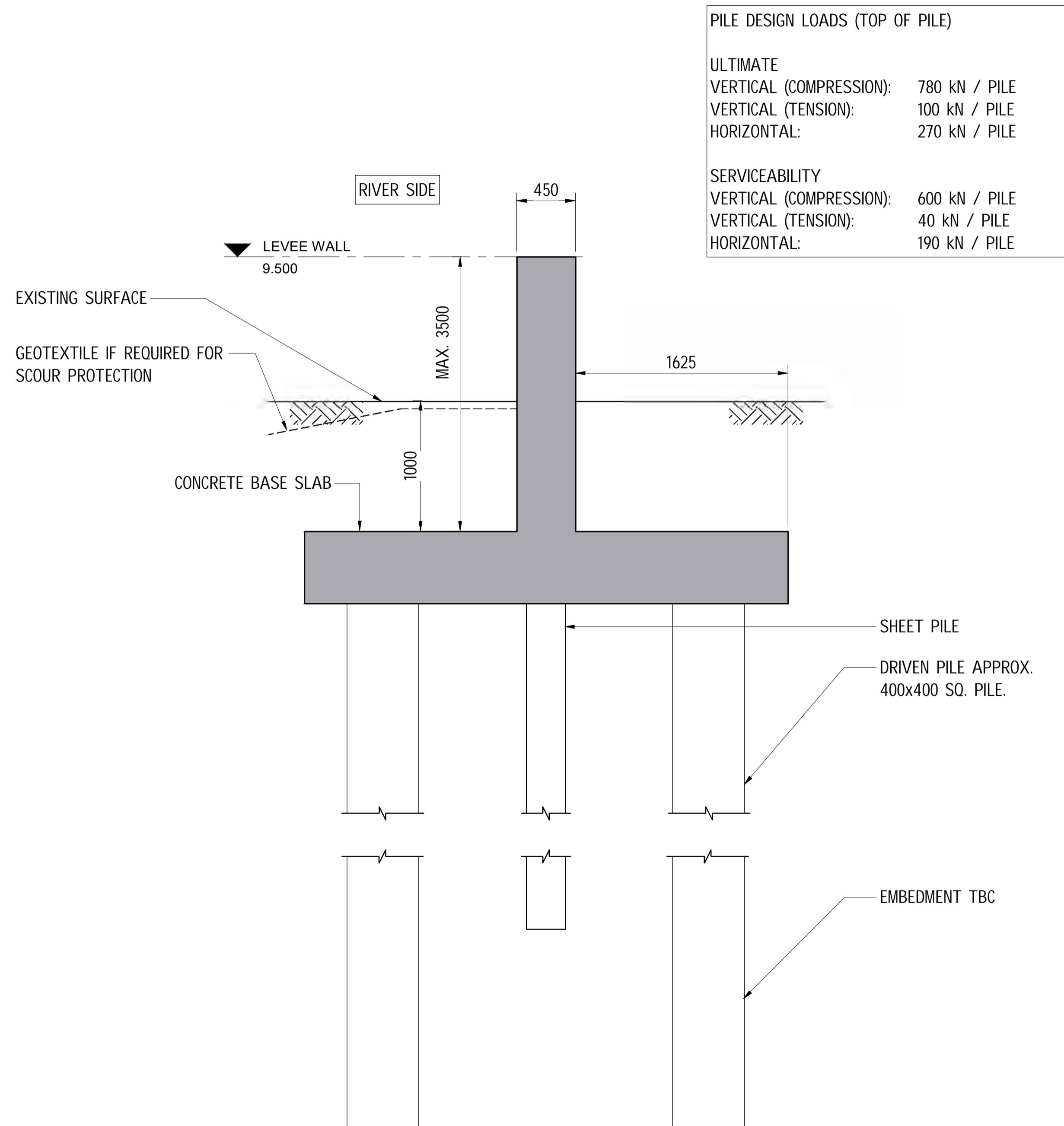
SCALE 1 : 25

WALL HEIGHT 1.0m - 2.5m

REINFORCEMENT 230 kg/m³

DESIGN ASSUMPTIONS:
 ZONE 1 : MASS OF MOVING OBJECT - 20 TONNE
 FLOW VELOCITY - 2.0 m/s
 ZONE 2 : MASS OF MOVING OBJECT - 20 TONNE
 FLOW VELOCITY - 1.3 m/s

SCALE 1:25
 0.25 0 0.50 1.00



PILE DESIGN LOADS (TOP OF PILE)	
ULTIMATE	
VERTICAL (COMPRESSION):	780 kN / PILE
VERTICAL (TENSION):	100 kN / PILE
HORIZONTAL:	270 kN / PILE
SERVICEABILITY	
VERTICAL (COMPRESSION):	600 kN / PILE
VERTICAL (TENSION):	40 kN / PILE
HORIZONTAL:	190 kN / PILE

LEVEE WALL - ZONE 2 TYPE 2 - SECTION

SCALE 1 : 25

A1

INDEX	DATE	DESCRIPTION	DRAWN	CHECKED	PASSED	INITIALS	DATE
1	23/05/24	PRELIMINARY DESIGN	SJ	RT	RT		

PRINCIPAL

 1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA

PRINCIPAL CONSULTANT

 Member of the Surlana Jurong Group

MANAGING CONTRACTOR

30034151
 BUNDABERG EAST LEVEE
 SECTIONS SHEET 4

PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS
SHEET OF SHEETS	SCALE 1 : 25
REVISION DATE	REVISION 1
DISCIPLINE CODE	STRUCTURAL
DRAWING NO.	30034151-SMC-GPRW-S-DRG 0153

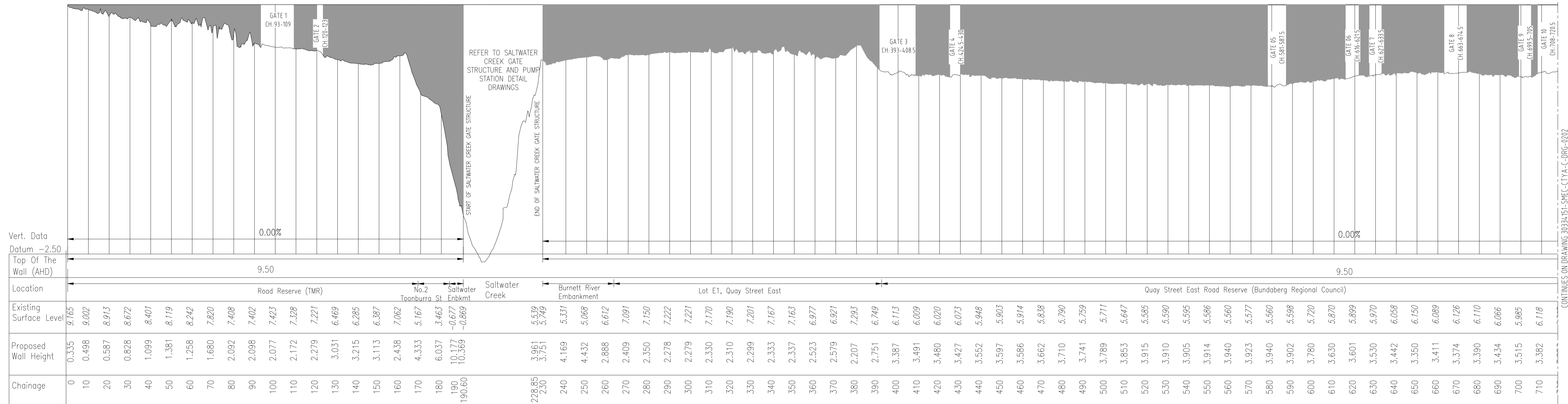
REVIT MODEL NAME: Bundaberg East Levee - 30034151-SMC-GPRW-S-DRG 0153.rvt

PRELIMINARY

23/05/24



WALL PLAN VIEW
CH 0.00 - CH 700.00
1:1000



WALL LONG SECTION
CH 0.00 - CH 700.00
1:1000

COORDINATE DATUM NOTE:

HORIZONTAL COORDINATES(E,N) SUPPLIED ARE MAPPING GRID OF AUSTRALIA(MGA), ZONE 56 BASED ON THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION AND THE GEOCENTRIC DATUM OF AUSTRALIA 2020.

A1

INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE
1	23/05/24	PRELIMINARY DESIGN	RB	RT	RT		
REVISIONS			DRAWN	CHECKED	PASSED	INITIALS	DATE

PRINCIPAL

Queensland Government
 1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA

PRINCIPAL CONSULTANT

SMC
 Member of the Surbana Jurong Group
 SMC PROJECT No 30034151

MANAGING CONTRACTOR
 30034151

30034151
 BUNDABERG EAST LEVEE
 PRELIMINARY DESIGN
 CITY LEVEE WALL SITE PLAN AND LONGSECTION
 (CH: 0-700.00)

PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS
SHEET 3 OF 7 SHEETS	SCALE 1:1000
REVISION DATE 23/05/2024	REVISION 1
DISCIPLINE CODE C	
DRAWING NO. 30034151-SMC-CTYA-C-DRG-0201	

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CONTINUES ON DRAWING 30034151-SMC-CTYA-C-DRG-0202

PRELIMINARY

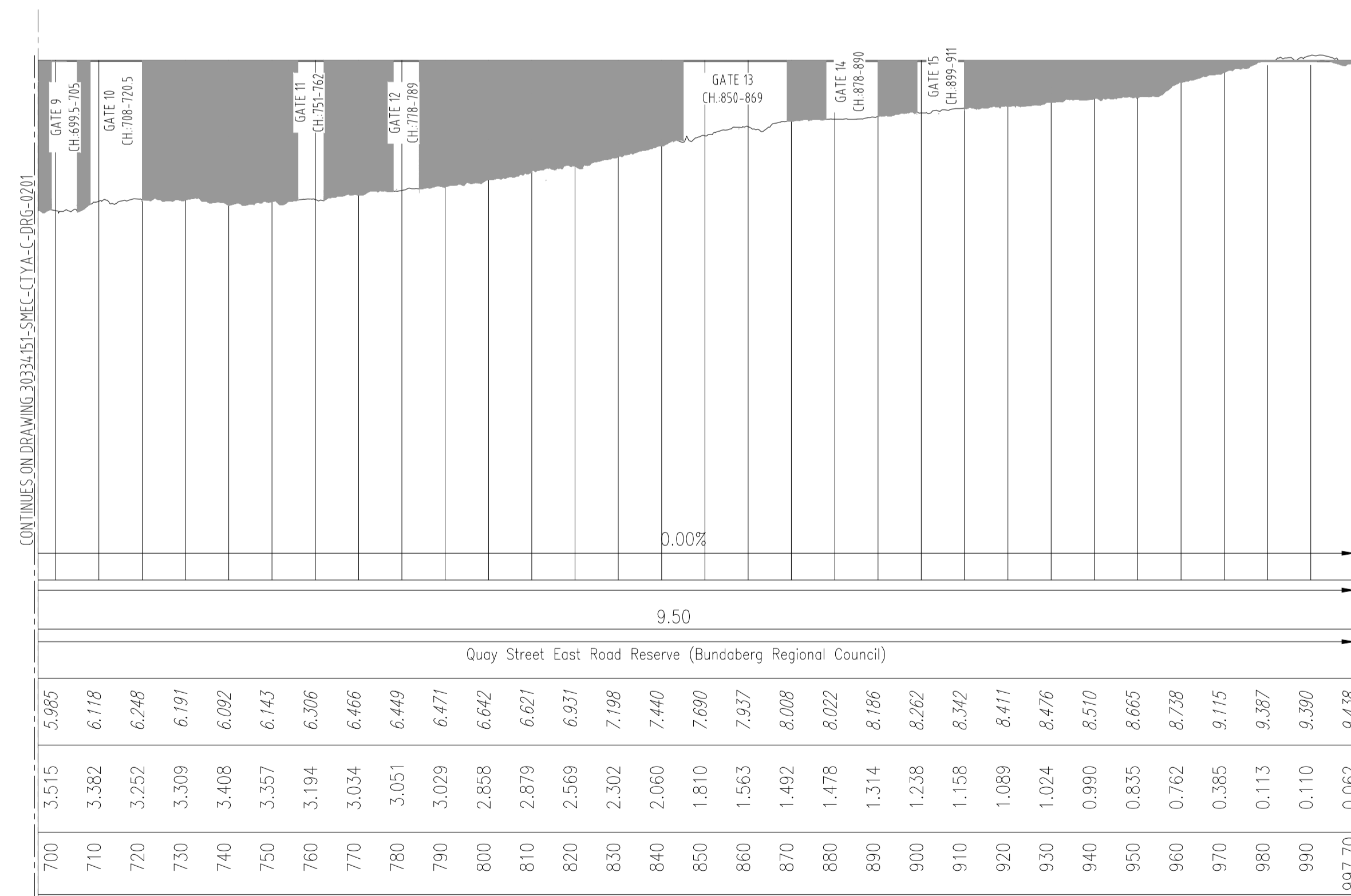
23/05/24



LEGEND

- PROPOSED DEPLOYABLE STOP LOG GATE LOCATION
- PROPOSED GATE No.
- LEVEE WALL ALIGNMENT
- x - LEVEE WALL CHAINAGE

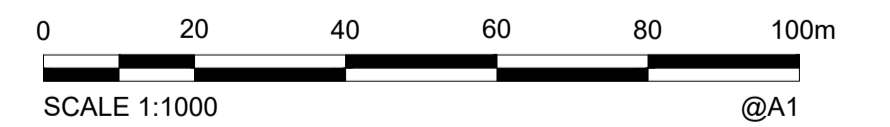
WALL PLAN VIEW
CH 700.00 - CH 1011.56
1:1000



WALL LONG SECTION
CH 700.00 - CH 1011.56
1:1000

COORDINATE DATUM NOTE:

HORIZONTAL COORDINATES(E,N) SUPPLIED ARE MAPPING GRID OF AUSTRALIA(MGA), ZONE 56 BASED ON THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION AND THE GEOCENTRIC DATUM OF AUSTRALIA 2020.



A1

INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE
	23/05/24	PRELIMINARY DESIGN	RB	RT	RT		

PRINCIPAL

1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA

PRINCIPAL CONSULTANT

Member of the Stantec Group
SMEC PROJECT No 30034151

MANAGING CONTRACTOR

30034151
BUNDABERG EAST LEVEE
PRELIMINARY DESIGN
CITY LEVEE WALL SITE PLAN AND LONGSECTION
(CH:700-997.70)

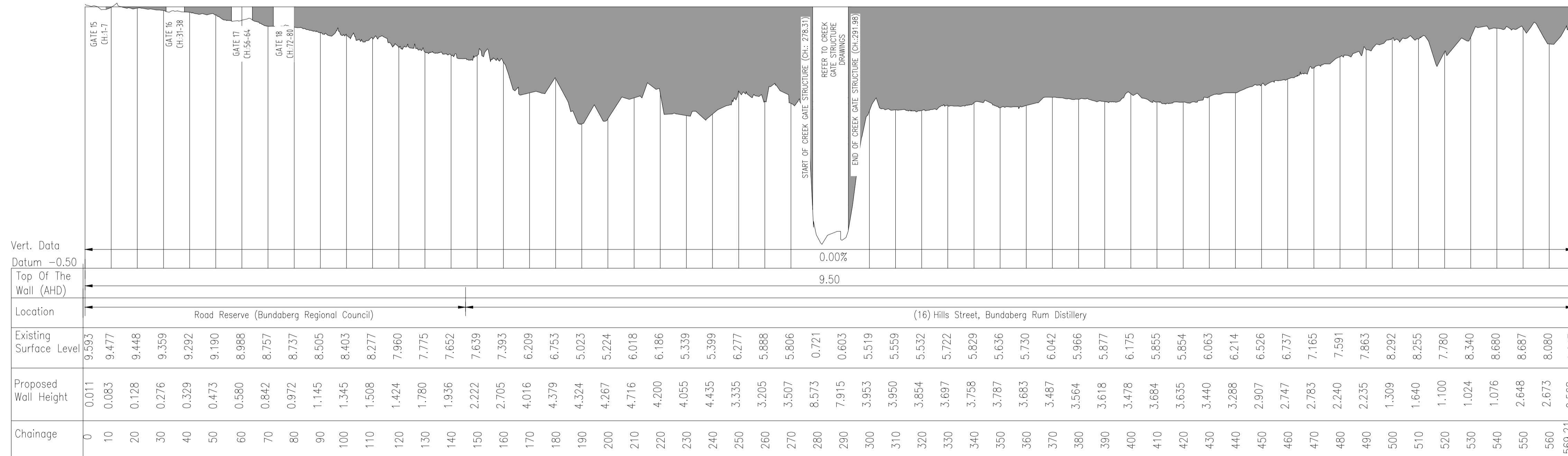
PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS		
SHEET 6 OF 7 SHEETS	SCALE 1:1000	REVISION	1
REVISION DATE	23/05/2024		
DISCIPLINE CODE	C		
DRAWING NO.	30034151-SMEC-CTYA-C-DRG-0202		

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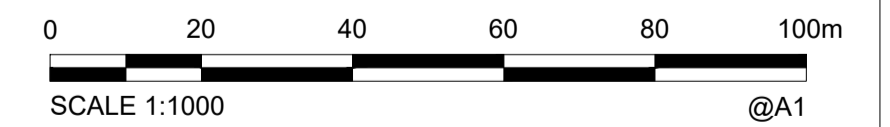


LEGEND	
	- PROPOSED DEPLOYABLE STOP LOG GATE LOCATION
xx	- PROPOSED GATE No.
	- LEVEE WALL ALIGNMENT
x	- LEVEE WALL CHAINAGE

WALL PLAN VIEW
CH 0.00- CH 569.21
1:1000



WALL LONG SECTION
CH 0.00- CH 569.21
1:1000



COORDINATE DATUM NOTE:

HORIZONTAL COORDINATES(E,N) SUPPLIED ARE MAPPING GRID OF AUSTRALIA(MGA), ZONE 56 BASED ON THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION AND THE GEOCENTRIC DATUM OF AUSTRALIA 2020.

A1

INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE
1	23/05/24	PRELIMINARY DESIGN	RB	RT	RT		

PRINCIPAL

1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA

PRINCIPAL CONSULTANT

Member of the Surbana Jurong Group
SMC PROJECT No 30034151

MANAGING CONTRACTOR

30034151
BUNDABERG EAST LEVEE
PRELIMINARY DESIGN
SUGAR MILL LEVEE WALL SITE PLAN AND LONGSECTION

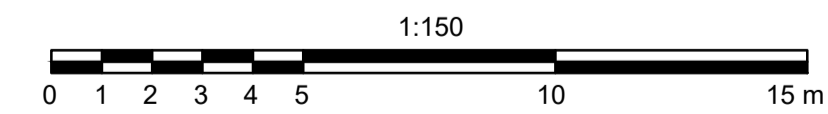
PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS		
SHEET 5 OF 7 SHEETS	SCALE 1:1000	REVISION	1
REVISION DATE	23/05/2024		
DISCIPLINE CODE	C		
DRAWING NO.	30034151-SMC-SMLA-C-DRG-0203		



COORDINATE DATUM NOTE:
 HORIZONTAL COORDINATES(E,N) SUPPLIED ARE MAPPING GRID OF AUSTRALIA(MGA), ZONE 56 BASED ON THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION AND THE GEOCENTRIC DATUM OF AUSTRALIA 2020.

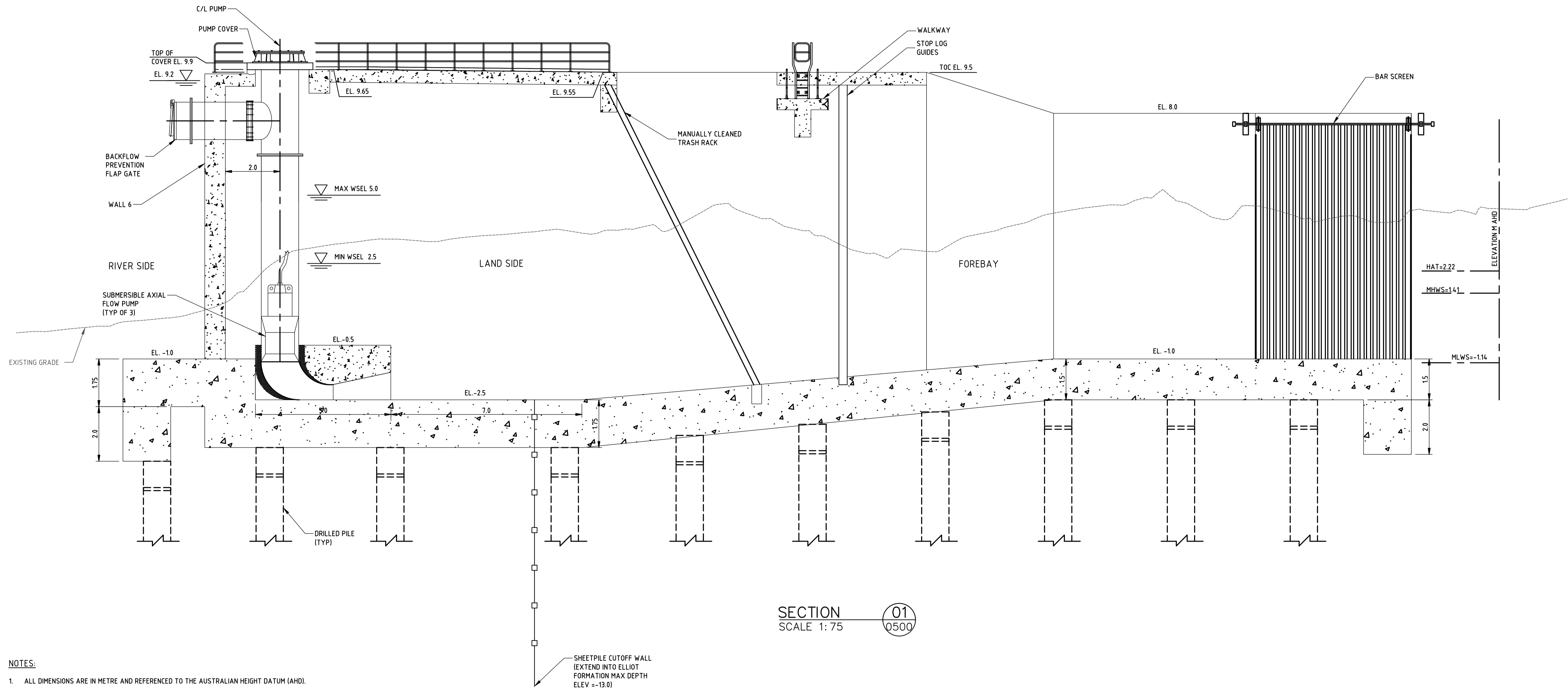
PLAN
 SCALE 1:150

- NOTES:**
- ALL DIMENSIONS ARE IN METRE AND REFERENCED TO THE AUSTRALIAN HEIGHT DATUM (AHD).
 - FLAP GATES TO BE PROVIDED ON THE RIVER SIDE OF PUMP DISCHARGE PIPES.
 - POSITION OF CONTROL BUILDING AND FUEL STORAGE TANK IS INDICATIVE AND SUBJECT TO CHANGE.



PRELIMINARY

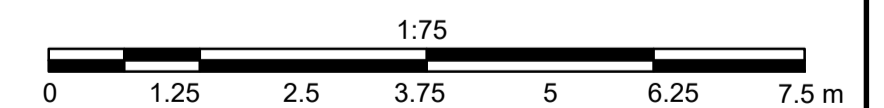
A1							PRINCIPAL 1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA	PRINCIPAL CONSULTANT Member of the Surbana Jurong Group SMEC PROJECT No 30034151	 cdmsmith.com	30034151 BUNDABERG EAST LEVEE SALTWATER CREEK PUMP STATION AND AND FLOOD GATE MECHANICAL PLAN	PRINCIPAL DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS
	INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE	SHEET OF SHEETS	SCALE AS SHOWN	REVISION 0
							DISCIPLINE CODE	M	DRAWINGS NO 30034151-CDMS-SCPS-M-DRG-0500		



SECTION 01
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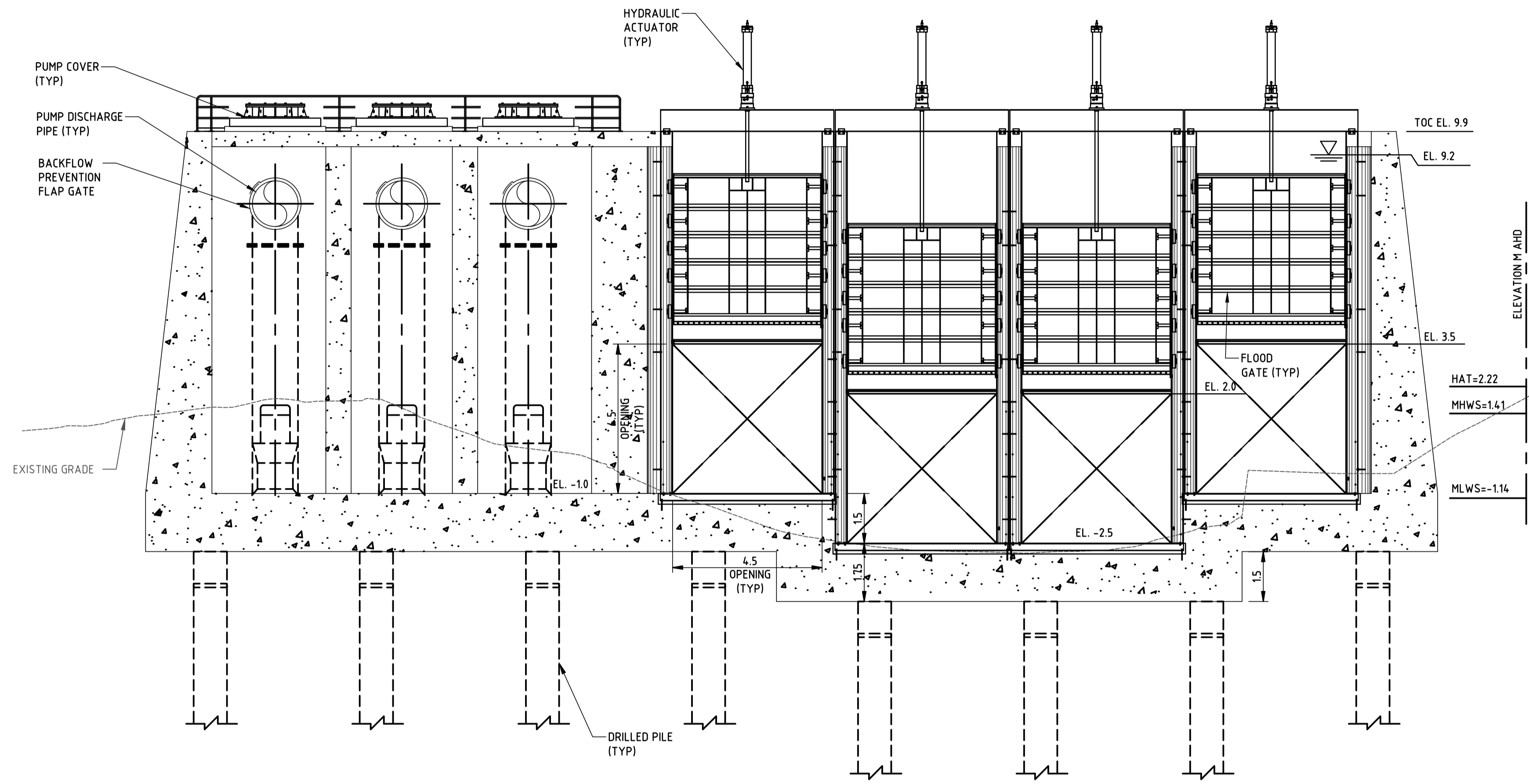
- NOTES:**
1. ALL DIMENSIONS ARE IN METRE AND REFERENCED TO THE AUSTRALIAN HEIGHT DATUM (AHD).
 2. FLAP GATES TO BE PROVIDED ON THE RIVER SIDE OF PUMP DISCHARGE PIPES.
 3. WSEL = WATER SURFACE ELEVATION
 4. HAT = HIGH ASTRONOMICAL TIDE
 5. MHWS = MEAN HIGH WATER SPRING
 6. MLWS = MEAN LOW WATER SPRING

COORDINATE DATUM NOTE:
HORIZONTAL COORDINATES(E,N) SUPPLIED ARE MAPPING GRID OF AUSTRALIA(MGA), ZONE 56 BASED ON THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION AND THE GEOCENTRIC DATUM OF AUSTRALIA 2020.

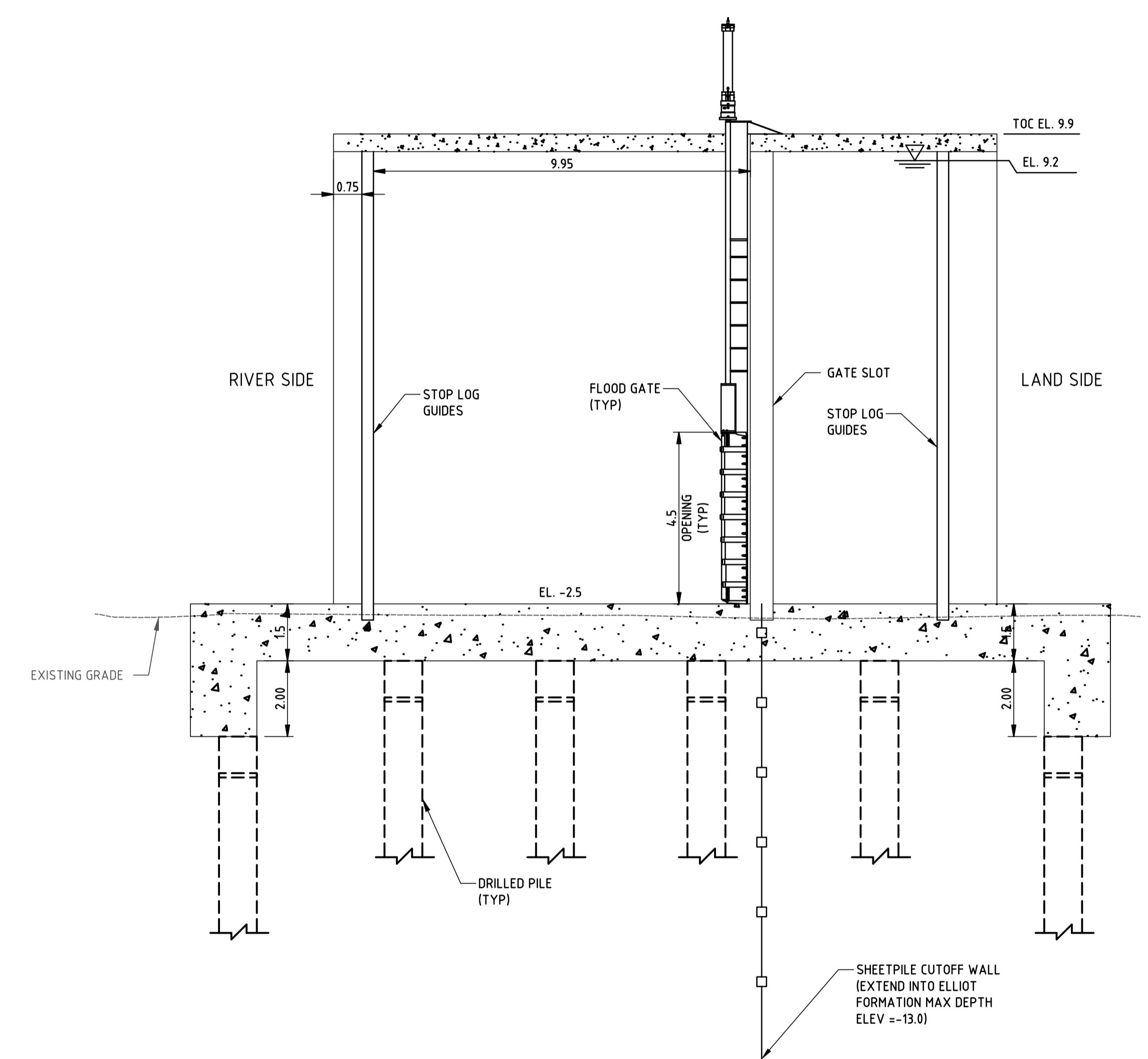


PRELIMINARY

A1							 Queensland Government <small>1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA</small>	 SMEC <small>Member of the Surbana Jurong Group</small> <small>SMEC PROJECT No 30034151</small>	 CDM Smith <small>cdmsmith.com</small>	30034151 BUNDABERG EAST LEVEE SALTWATER CREEK PUMP STATION AND AND FLOOD GATE MECHANICAL SECTION-1	PRINCIPAL DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS
	DRAWN	SBB	18/05/2024	CHECKED	CSIMMG	18/05/2024	PASSED	CSF/KAH	18/05/2024	SHEET OF SHEETS REVISION DATE DISCIPLINE CODE DRAWINGS NO	SCALE AS SHOWN REVISION 0 M 30034151-CDMS-SCPS-M-DRG-0501
INDEX	DATE	REVISIONS				DRAWN	CHECKED	PASSED	INITIALS	DATE	



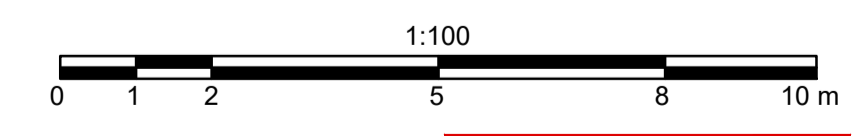
SECTION 02
SCALE 1:100



SECTION 03
SCALE 1:100

- NOTES:
1. ALL DIMENSIONS ARE IN METRE AND REFERENCED TO THE AUSTRALIAN HEIGHT DATUM (AHD).
 2. FLAP GATES TO BE PROVIDED ON THE RIVER SIDE OF PUMP DISCHARGE PIPES.
 3. WSEL = WATER SURFACE ELEVATION
 4. HAT = HIGH ASTRONOMICAL TIDE
 5. MHWS = MEAN HIGH WATER SPRING
 6. MLWS = MEAN LOW WATER SPRING

COORDINATE DATUM NOTE:
HORIZONTAL COORDINATES(E,N) SUPPLIED ARE MAPPING GRID OF AUSTRALIA(MGA), ZONE 56 BASED ON THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION AND THE GEOCENTRIC DATUM OF AUSTRALIA 2020.



PRELIMINARY

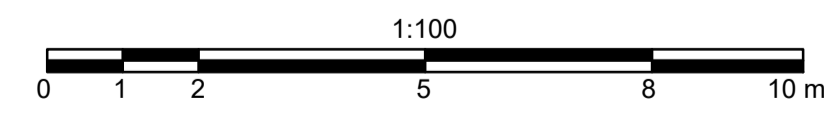
A1	INDEX						 1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA	 PRINCIPAL CONSULTANT	 cdmsmith.com	30034151	PRINCIPAL DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS
	REVISIONS									BUNDABERG EAST LEVEE SALTWATER CREEK PUMP STATION AND AND FLOOD GATE MECHANICAL SECTION-2	
INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE	SMEC PROJECT No 30034151		REVISION DATE REVISION 0	
DRAWINGS NO: 30034151-CDMS-SCPS-M-DRG-0502											

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COORDINATE DATUM NOTE:
 HORIZONTAL COORDINATES(E,N) SUPPLIED ARE MAPPING GRID OF AUSTRALIA(MGA), ZONE 56 BASED ON THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION AND THE GEOCENTRIC DATUM OF AUSTRALIA 2020.

- NOTES:**
- ALL DIMENSIONS ARE IN METRE AND REFERENCED TO THE AUSTRALIAN HEIGHT DATUM (AHD).
 - FLAP GATES TO BE PROVIDED ON THE RIVER SIDE OF PUMP DISCHARGE PIPES.
 - POSITION OF CONTROL BUILDING AND FUEL STORAGE TANK IS INDICATIVE AND SUBJECT TO CHANGE.



PRELIMINARY

PLAN
 SCALE 1:100

A1	INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE

PRINCIPAL

1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA

PRINCIPAL CONSULTANT

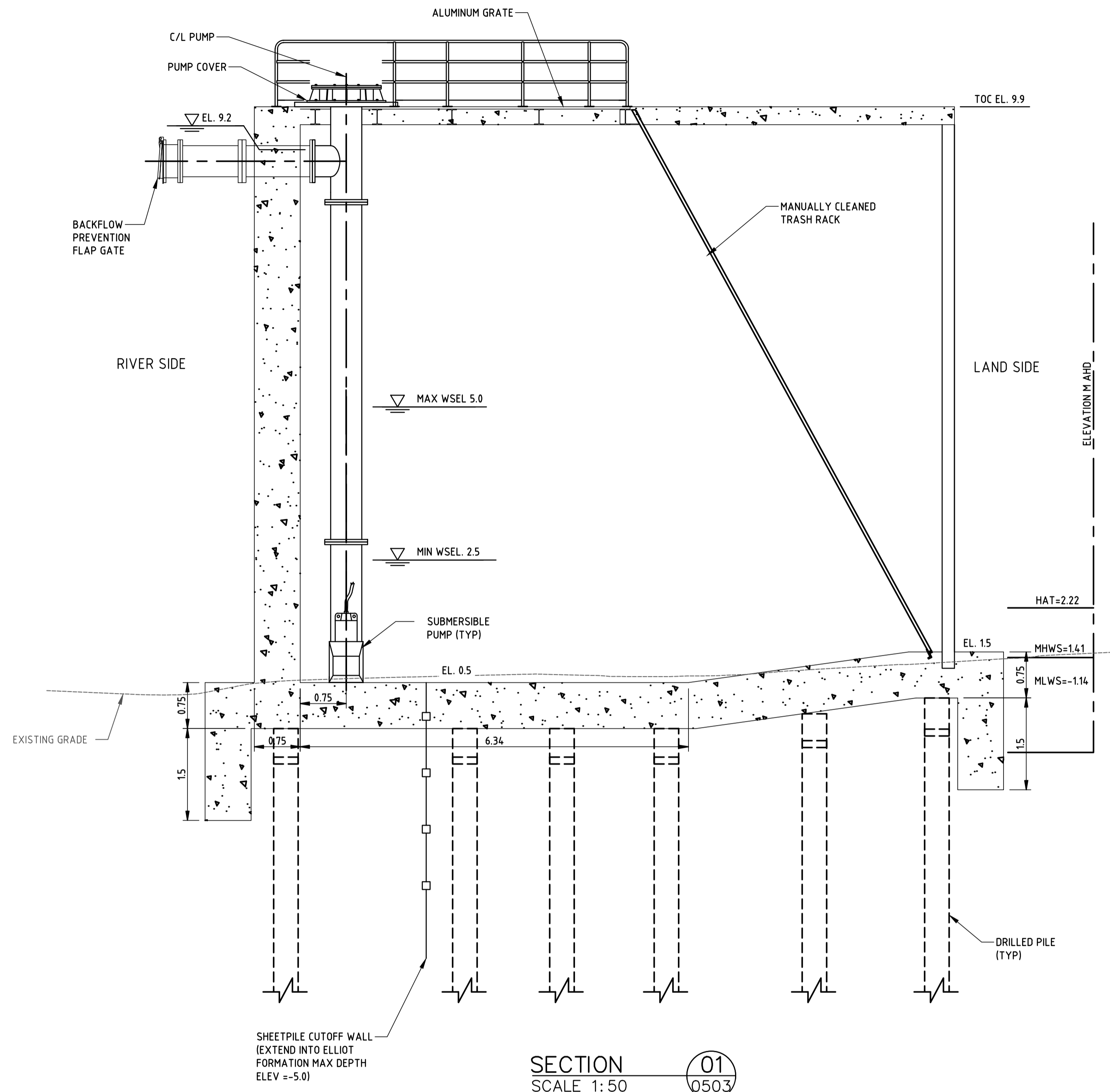
Member of the Surbana Jurong Group
 SMEC PROJECT No 30034151

cdmsmith.com

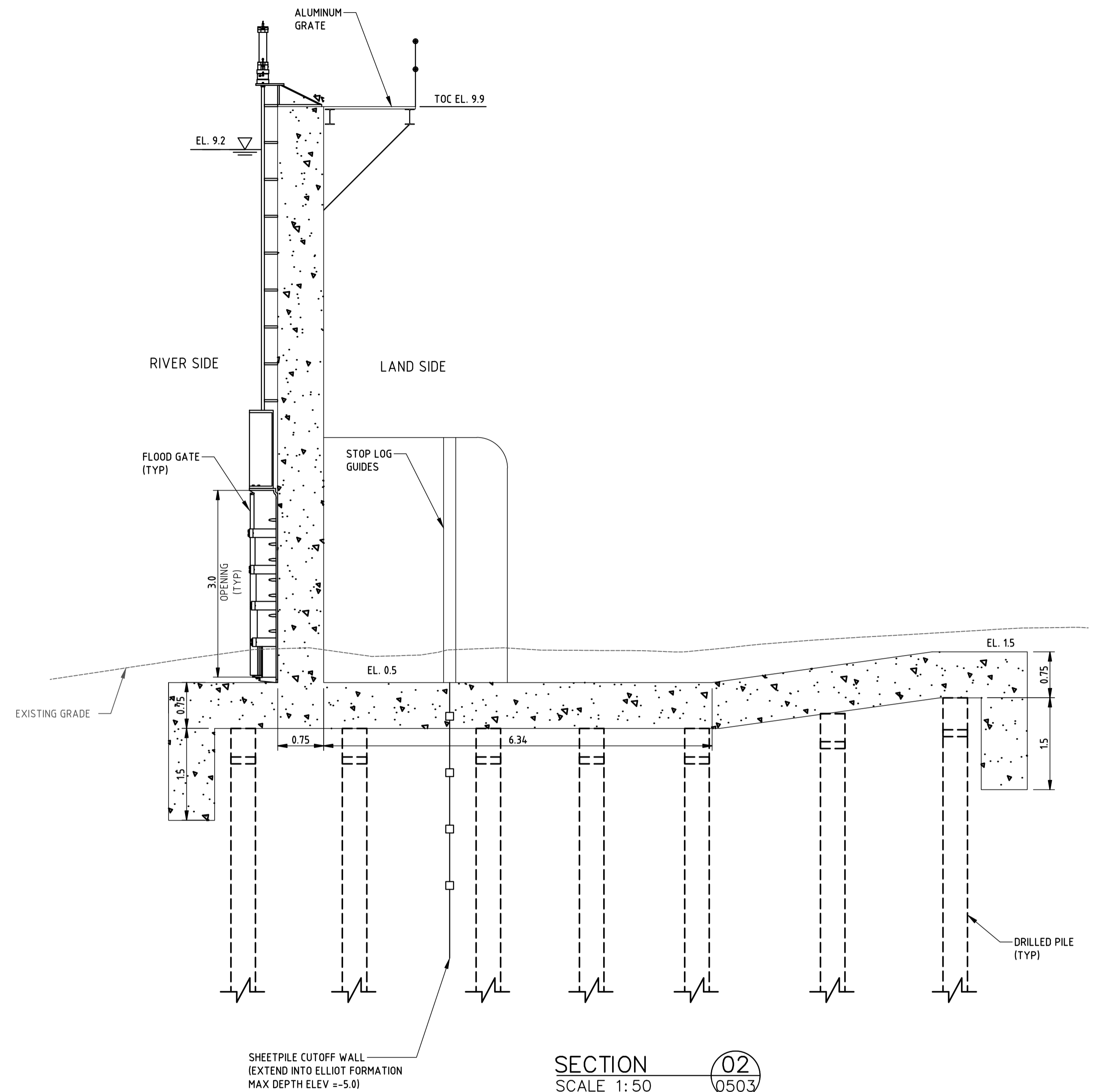
30034151

BUNDABERG EAST LEVEE
 DISTILLERY CREEK PUMP STATION
 AND FLOOD GATE MECHANICAL PLAN

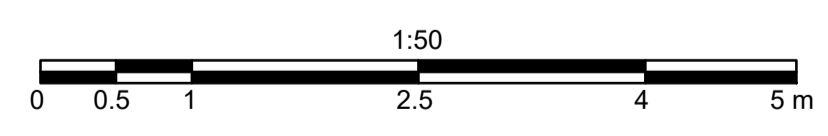
PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS
SHEET OF	SHEETS SCALE AS SHOWN
REVISION DATE	REVISION 0
DISCIPLINE CODE	M
DRAWING NO	30034151-CDMS-DCPS-M-DRG-0503



SECTION 01
SCALE 1:50
0503



SECTION 02
SCALE 1:50
0503

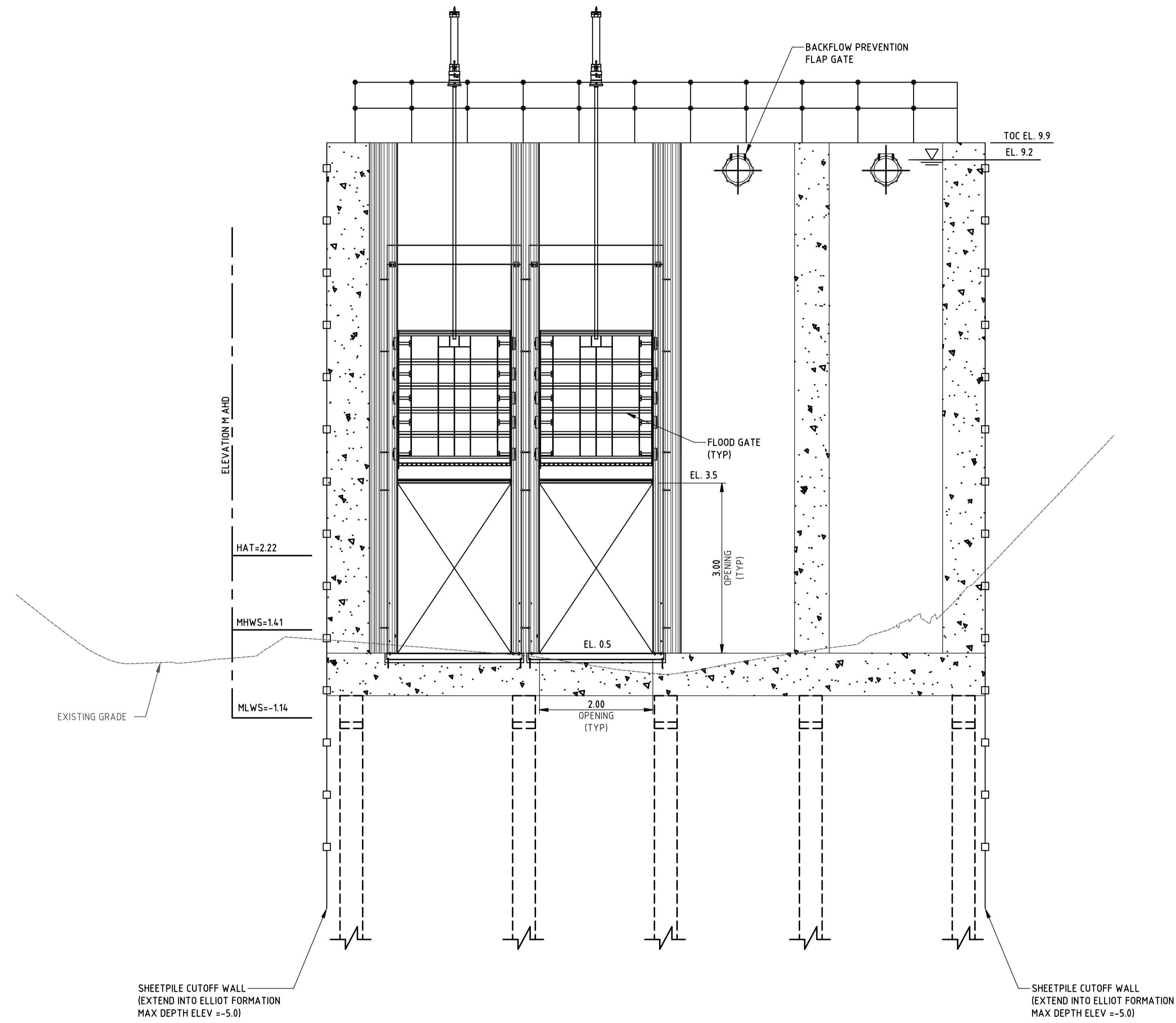


- NOTES:**
1. ALL DIMENSIONS ARE IN METRE AND REFERENCED TO THE AUSTRALIAN HEIGHT DATUM (AHD).
 2. FLAP GATES TO BE PROVIDED ON THE RIVER SIDE OF PUMP DISCHARGE PIPES.
 3. WSEL = WATER SURFACE ELEVATION
 4. HAT = HIGH ASTRONOMICAL TIDE
 5. MHWS = MEAN HIGH WATER SPRING
 6. MLWS = MEAN LOW WATER SPRING

COORDINATE DATUM NOTE:
HORIZONTAL COORDINATES(E,N) SUPPLIED ARE MAPPING GRID OF AUSTRALIA(MGA), ZONE 56 BASED ON THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION AND THE GEOCENTRIC DATUM OF AUSTRALIA 2020.

PRELIMINARY

A1	INDEX						 1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA	 Member of the Surbana Jurong Group	 cdmsmith.com	30034151 BUNDABERG EAST LEVEE DISTILLERY CREEK PUMP STATION AND FLOOD GATE MECHANICAL SECTION-1 & 2	PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS		
	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS					DATE	SHEET OF SHEETS	SCALE AS SHOWN	REVISION DATE
													DRRAWINGS NO	30034151-CDMS-SCPS-M-DRG-0504



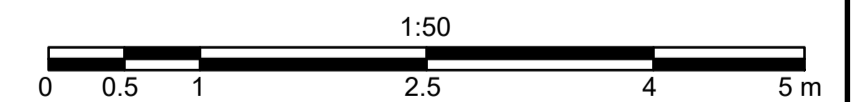
SECTION 03
SCALE 1:50 Q503

NOTES:

1. ALL DIMENSIONS ARE IN METRE AND REFERENCED TO THE AUSTRALIAN HEIGHT DATUM (AHD).
2. FLAP GATES TO BE PROVIDED ON THE RIVER SIDE OF PUMP DISCHARGE PIPES.
3. WSEL = WATER SURFACE ELEVATION
4. HAT = HIGH ASTRONOMICAL TIDE
5. MHWS = MEAN HIGH WATER SPRING
6. MLWS = MEAN LOW WATER SPRING

COORDINATE DATUM NOTE:

HORIZONTAL COORDINATES(E,N) SUPPLIED ARE MAPPING GRID OF AUSTRALIA(MGA), ZONE 56 BASED ON THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION AND THE GEOCENTRIC DATUM OF AUSTRALIA 2020.



PRELIMINARY

A1	INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE	PRINCIPAL 1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA	PRINCIPAL CONSULTANT Member of the Surbana Jurong Group SMEC PROJECT No 30034151	 cdmsmith.com	30034151 BUNDABERG EAST LEVEE DISTILLERY CREEK PUMP STATION AND FLOOD GATE MECHANICAL SECTION-3	PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS		
													SHEET OF SHEETS	SCALE AS SHOWN	REVISION DATE	REVISION 0
													DISCIPLINE CODE	M	DRAWINGS NO	30034151-CDMS-SCPS-M-DRG-0505

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CONSTRUCTION SEQUENCE

THE FOLLOWING SEQUENCE OF CONSTRUCTION DEPICTS ONE LOGICAL SEQUENCE OF CONSTRUCTION. FINAL MEANS AND METHODS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

1. INSTALL EROSION AND SEDIMENT CONTROL TO REMAIN IN CONFORMANCE WITH ALL APPLICABLE REGULATIONS.
2. CLEAR AND GRUB AND THEN EXCAVATE ENTIRE BASE SLAB AND WINGWALL AREAS TO REMOVE EXISTING SUBSURFACE ROCK FILL AND SUNKEN BOAT RAMP TO ALLOW FOR SHEETPILES TO BE DRIVEN AND PILES INSTALLED. ROCK MUST ALSO BE REMOVED TO FACILITATE INSTALLATION OF TEMPORARY COFFERDAM SHEETPILES.
3. INSTALL TEMPORARY SHEETPILE ON EASTERN BANK AND EXCAVATE CREEK TO ENLARGE WATERWAY PROVIDING ADDITIONAL AREA FOR FISH PASSAGE TO CONFORM WITH QUEENSLAND WATERWAY BARRIER WORKS AFTER COFFERDAM IS INSTALLED.
4. INSTALL COFFERDAM AS SHOWN USING TEMPORARY SHEETPILES AND DEWATER INSIDE THE COFFERDAM TO FACILITATE CONSTRUCTION IN THE DRY. USE WELLPOINTS AND SUMPS, DESIGNED BY A RPEQ, TO MAINTAIN A DEWATERED EXCAVATION.
5. INSTALL TEMPORARY SHEETPILE AT REAR OF WESTERN WALL TO FACILITATE EXCAVATION ALONG WITH TEMPORARY WORKING PLATFORM(S) WITHIN THE COFFERDAM AS NEEDED TO ACCESS CONSTRUCTION AREAS.
6. INSTALL PERMANENT SHEETPILE CUTOFF WALLS WITHIN THE CHANNEL. LONGITUDINAL SHEETPILE SHOWN ALONG EASTERN FACE OF CENTER WALL SHALL REMAIN TO ACT AS A SUBSURFACE CUTOFF ALLOWING FOR THE EASTERN PORTION OF THE IMPROVEMENTS TO BE CONSTRUCTED IN THE DRY.
7. INSTALL PILES AND CONSTRUCT WALLS, GATES, AND BASE SLAB WORKING FROM THE CENTER OF THE CHANNEL BACK TO THE WESTERN SHORE.
8. BACKFILL BEHIND OUTER STRUCTURAL WALL THEN REMOVE COFFERDAM.
9. CONSTRUCT SHEETPILE WINGWALLS FROM SHORE.
10. REMOVE EROSION AND SEDIMENT CONTROLS AFTER FINAL STABILIZATION IS COMPLETE AND PROGRESS TO CONSTRUCT EASTERN PORTION OF STRUCTURE AS SHOWN ON SHEET DRG-0507.

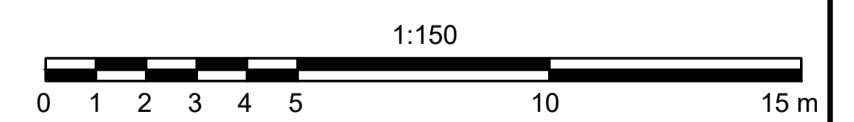
NOTES:

1. ALL DIMENSIONS ARE IN METRE AND REFERENCED TO THE AUSTRALIAN HEIGHT DATUM (AHD).
2. AT NO TIME SHALL THE ENTIRE CHANNEL BE OBSTRUCTED. CHANNEL TO REMAIN UNOBSTRUCTED TO ALLOW FOR FISH PASSAGE THROUGHOUT CONSTRUCTION.
3. CONTRACTOR SHALL STRICTLY OBSERVE PROPERTY BOUNDARIES AND SHALL NOT TRAVEL OR PERFORM WORK ON OFFSITE PROPERTIES WITHOUT THE APPROPRIATE PERMISSIONS AND EASEMENTS IN PLACE.
4. THE PEDESTRIAN BRIDGE LOCATED UPSTREAM OF THE PROPOSED IMPROVEMENTS IS A HERITAGE STRUCTURE. WORK SHALL IN NO WAY IMPACT OR CAUSE DAMAGE TO THIS STRUCTURE.

PLAN
SCALE 1:150

COORDINATE DATUM NOTE:

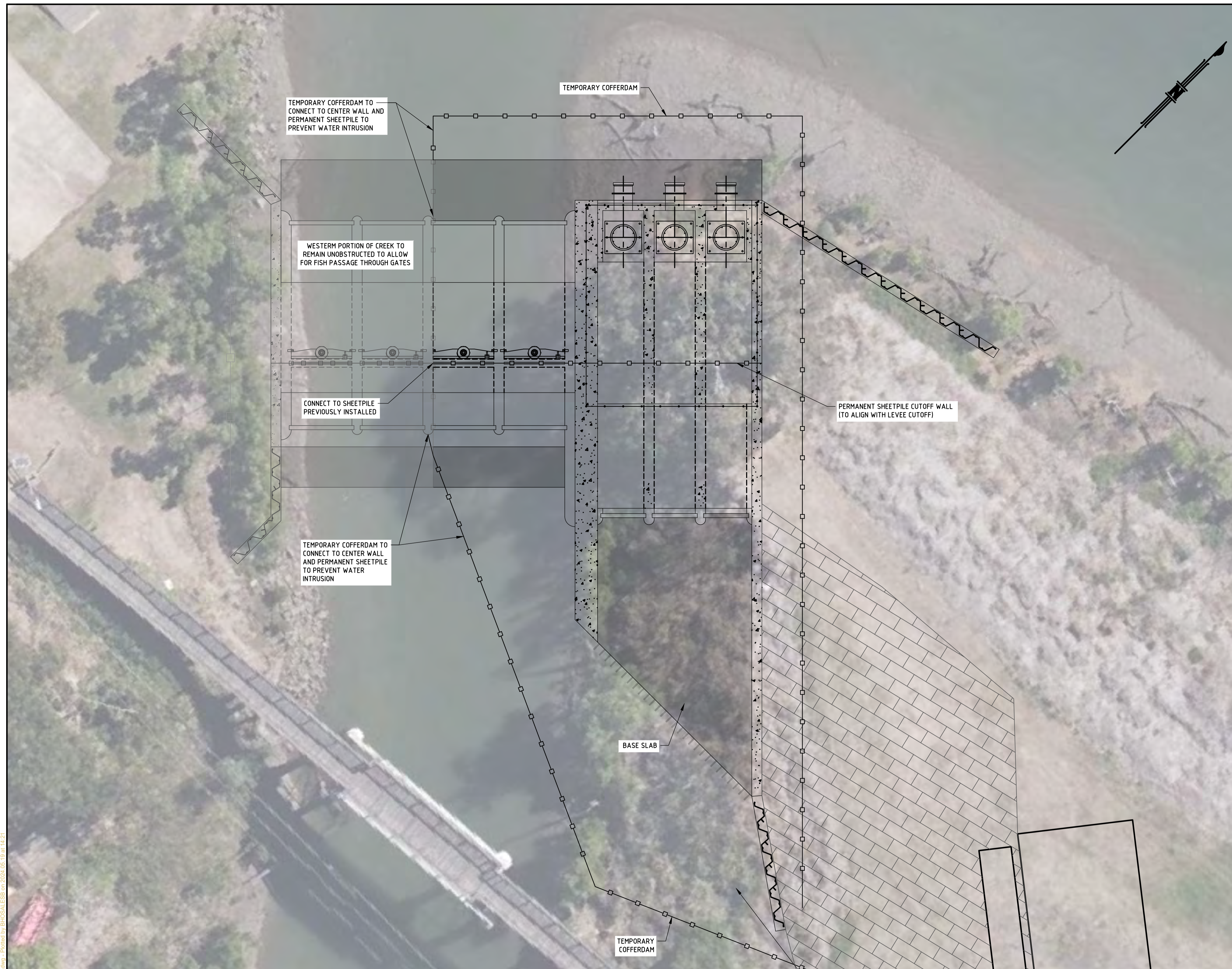
HORIZONTAL COORDINATES(E,N) SUPPLIED ARE MAPPING GRID OF AUSTRALIA(MGA), ZONE 56 BASED ON THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION AND THE GEOCENTRIC DATUM OF AUSTRALIA 2020.



PRELIMINARY

A1	INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE	 <small>1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA</small>	 <small>Member of the Surbana Jurong Group</small>	 <small>cdmsmith.com</small>	30034151	PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS	
				DRAWN	SBB	18/05/2024						BUNDABERG EAST LEVEE SALTWATER CREEK PUMP STATION AND AND FLOOD GATE WATERWAY BARRIER WORKS - PHASE 1 : WEST	SHEET OF SHEETS	SCALE AS SHOWN	
				CHECKED	SMN	18/05/2024							REVISION DATE	REVISION	0
				PASSED	SLW	18/05/2024							DISCIPLINE CODE	M	
													DRAWINGS NO	30034151-CDMS-SCFG-M-DRG-0506	

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CONSTRUCTION SEQUENCE

THE FOLLOWING SEQUENCE OF CONSTRUCTION DEPICTS ONE LOGICAL SEQUENCE OF CONSTRUCTION. FINAL MEANS AND METHODS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

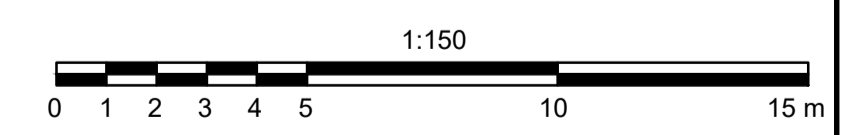
1. INSTALL EROSION AND SEDIMENT CONTROL TO REMAIN IN CONFORMANCE WITH ALL APPLICABLE REGULATIONS.
2. CLEAR AND GRUB AND THEN EXCAVATE ENTIRE BASE SLAB AND WINGWALL AREAS TO REMOVE EXISTING SUBSURFACE ROCK FILL TO ALLOW FOR SHEETPILES TO BE DRIVEN AND PILES INSTALLED. ROCK MUST ALSO BE REMOVED TO FACILITATE INSTALLATION OF TEMPORARY COFFERDAM SHEETPILES.
3. INSTALL COFFERDAM AS SHOWN USING TEMPORARY SHEETPILES AND DEWATER INSIDE THE COFFERDAM TO FACILITATE CONSTRUCTION IN THE DRY. USE WELLPOINTS AND SUMPS, DESIGNED BY A RPEQ, TO MAINTAIN A DEWATERED EXCAVATION.
4. INSTALL PERMANENT SHEETPILE CUTOFF WALLS WITHIN THE CHANNEL. LONGITUDINAL SHEETPILE INSTALLED PREVIOUSLY ALONG EASTERN FACE OF CENTER WALL SHALL ACT AS A SUBSURFACE CUTOFF ALLOWING FOR THE EASTERN PORTION OF THE IMPROVEMENTS TO BE CONSTRUCTED IN THE DRY.
5. INSTALL PILES AND CONSTRUCT WALLS, PUMPS & BASE SLAB WORKING FROM THE CENTER OF THE CHANNEL BACK TO THE WESTERN SHORE.
6. BACKFILL BEHIND OUTER STRUCTURAL WALL THEN REMOVE COFFERDAM.
7. CONSTRUCT SHEETPILE WINGWALLS FROM SHORE.
8. REMOVE EROSION AND SEDIMENT CONTROLS AFTER FINAL STABILIZATION IS COMPLETE.

NOTES:

1. ALL DIMENSIONS ARE IN METRE AND REFERENCED TO THE AUSTRALIAN HEIGHT DATUM (AHD).
2. AT NO TIME SHALL THE ENTIRE CHANNEL BE OBSTRUCTED. CHANNEL TO REMAIN UNOBSTRUCTED TO ALLOW FOR FISH PASSAGE THROUGHOUT CONSTRUCTION.
3. CONTRACTOR SHALL STRICTLY OBSERVE PROPERTY BOUNDARIES AND SHALL NOT TRAVEL OR PERFORM WORK ON OFFSITE PROPERTIES.
4. THE PEDESTRIAN BRIDGE LOCATED UPSTREAM OF THE PROPOSED IMPROVEMENTS IS A HERITAGE STRUCTURE. WORK SHALL IN NO WAY IMPACT OR CAUSE DAMAGE TO THIS STRUCTURE.

PLAN
SCALE 1:150

COORDINATE DATUM NOTE:
HORIZONTAL COORDINATES(E,N) SUPPLIED ARE MAPPING GRID OF AUSTRALIA(MGA), ZONE 56 BASED ON THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION AND THE GEOCENTRIC DATUM OF AUSTRALIA 2020.



PRELIMINARY

A1	INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE	<p>1 WILLIAM STREET, BRISBANE, QLD, 4000, AUSTRALIA</p>	<p>PRINCIPAL CONSULTANT</p> <p>Member of the Surbana Jurong Group</p> <p>SMC PROJECT No 30034151</p>	<p>cdmsmith.com</p>	<p>30034151</p> <p>BUNDABERG EAST LEVEE</p> <p>SALTWATER CREEK PUMP STATION AND AND FLOOD GATE</p> <p>WATERWAY BARRIER WORKS - PHASE 2 : EAST</p>	PRINCIPAL	DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS	
				DRAWN	SBB	18/05/2024							SHEET OF SHEETS	SCALE AS SHOWN	
				CHECKED	SMN	18/05/2024							REVISION DATE	REVISION 0	
				PASSED	SLW	18/05/2024							DISCIPLINE CODE	M	
										DRAWING NO: 30034151-CDMS-SCFG-M-DRG-0507					

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CONSTRUCTION SEQUENCE

THE FOLLOWING SEQUENCE OF CONSTRUCTION DEPICTS ONE LOGICAL SEQUENCE OF CONSTRUCTION. FINAL MEANS AND METHODS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

1. INSTALL EROSION AND SEDIMENT CONTROL TO REMAIN IN CONFORMANCE WITH ALL APPLICABLE REGULATIONS.
2. CLEAR AND GRUB AND THEN EXCAVATE ENTIRE BASE SLAB AND WINGWALL AREAS TO REMOVE EXISTING SUBSURFACE ROCK FILL TO ALLOW FOR SHEETPILES TO BE DRIVEN AND PILES INSTALLED. ROCK MUST ALSO BE REMOVED TO FACILITATE INSTALLATION OF TEMPORARY COFFERDAM SHEETPILES.
3. INSTALL COFFERDAM AS SHOWN USING TEMPORARY SHEETPILES AND DEWATER INSIDE THE COFFERDAM TO FACILITATE CONSTRUCTION IN THE DRY. USE WELLPOINTS AND SUMPS, DESIGNED BY A RPEQ, TO MAINTAIN A DEWATERED EXCAVATION.
4. INSTALL PERMANENT SHEETPILE CUTOFF WALLS WITHIN THE CHANNEL. LONGITUDINAL SHEETPILE INSTALLED PREVIOUSLY ALONG SOUTHEASTERN FACE OF CENTER WALL SHALL ACT AS A SUBSURFACE CUTOFF ALLOWING FOR THE NORTHWESTERN PORTION OF THE IMPROVEMENTS TO BE CONSTRUCTED IN THE DRY.
5. INSTALL PILES AND CONSTRUCT WALLS, PUMPS AND BASE SLAB WORKING FROM THE CENTER OF THE CHANNEL BACK TO THE SOUTHEASTERN SHORE.
6. BACKFILL BEHIND OUTER STRUCTURAL WALL THEN REMOVE COFFERDAM.
7. CONSTRUCT SHEETPILE WINGWALLS FROM SHORE.
8. REMOVE EROSION AND SEDIMENT CONTROLS AFTER FINAL STABILIZATION IS COMPLETE.

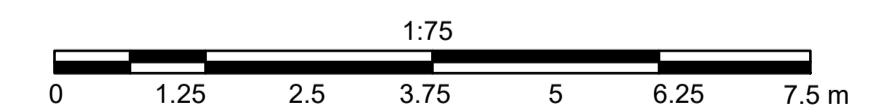
NOTES:

1. ALL DIMENSIONS ARE IN METRE AND REFERENCED TO THE AUSTRALIAN HEIGHT DATUM (AHD).
2. AT NO TIME SHALL THE ENTIRE CHANNEL BE OBSTRUCTED. CHANNEL TO REMAIN UNOBSTRUCTED TO ALLOW FOR FISH PASSAGE THROUGHOUT CONSTRUCTION.
3. CONTRACTOR SHALL STRICTLY OBSERVE PROPERTY BOUNDARIES AND SHALL NOT TRAVEL OR PERFORM WORK ON OFFSITE PROPERTIES.

PLAN
SCALE 1: 75

COORDINATE DATUM NOTE:

HORIZONTAL COORDINATES(E,N) SUPPLIED ARE MAPPING GRID OF AUSTRALIA(MGA), ZONE 56 BASED ON THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION AND THE GEOCENTRIC DATUM OF AUSTRALIA 2020.



PRELIMINARY

A1							<small>PRINCIPAL</small> 	<small>PRINCIPAL CONSULTANT</small> 		30034151 BUNDABERG EAST LEVEE DISTILLERY CREEK PUMP STATION AND AND FLOOD GATE WATERWAY BARRIER WORKS - PHASE : 2 SOUTHEAST	<small>PRINCIPAL</small> DEPARTMENT OF HOUSING, LOCAL GOVERNMENT, PLANNING AND PUBLIC WORKS
	<small>INDEX</small> <small>DATE</small>	<small>REVISIONS</small>					<small>DRAWN</small> <small>CHECKED</small> <small>PASSED</small>	<small>INITIALS</small> <small>DATE</small>	<small>MEMBER OF THE SURBANA JURONG GROUP</small> <small>SMEC PROJECT No 30034151</small>	<small>CDMSMITH.COM</small>	<small>SHEET OF SHEETS</small> <small>SCALE AS SHOWN</small>
										<small>DISCIPLINE CODE</small> M	<small>DRAWINGS NO.</small> 30034151-CDMS-DCFG-M-DRG-0509

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