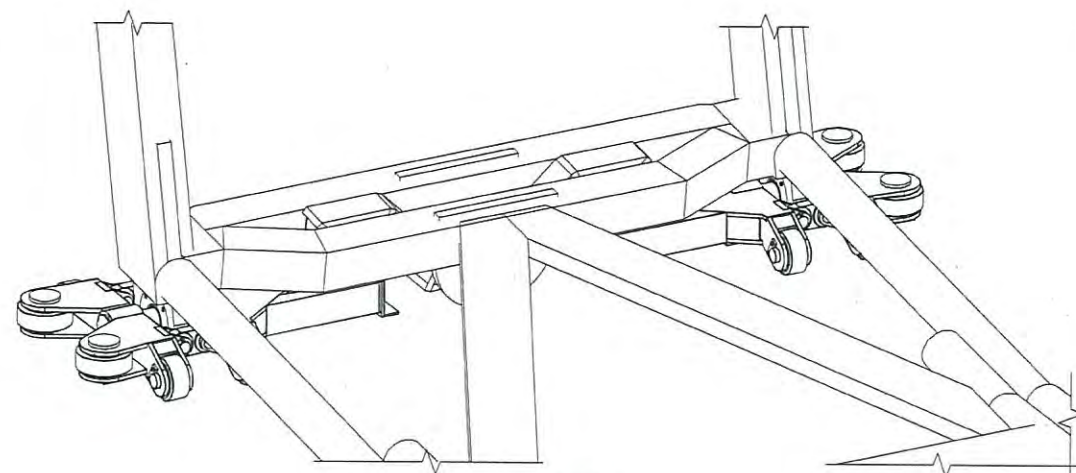
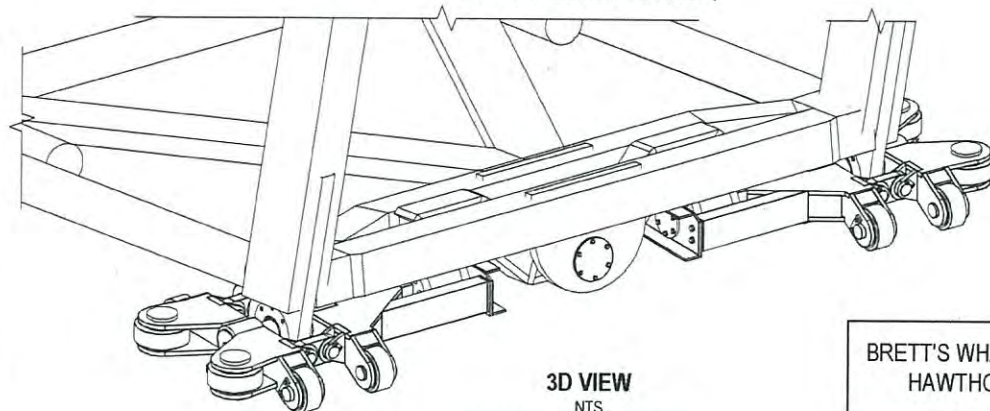
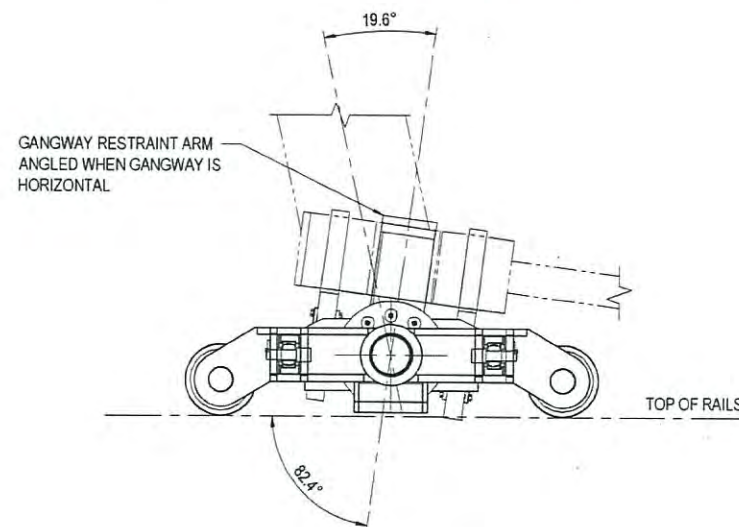




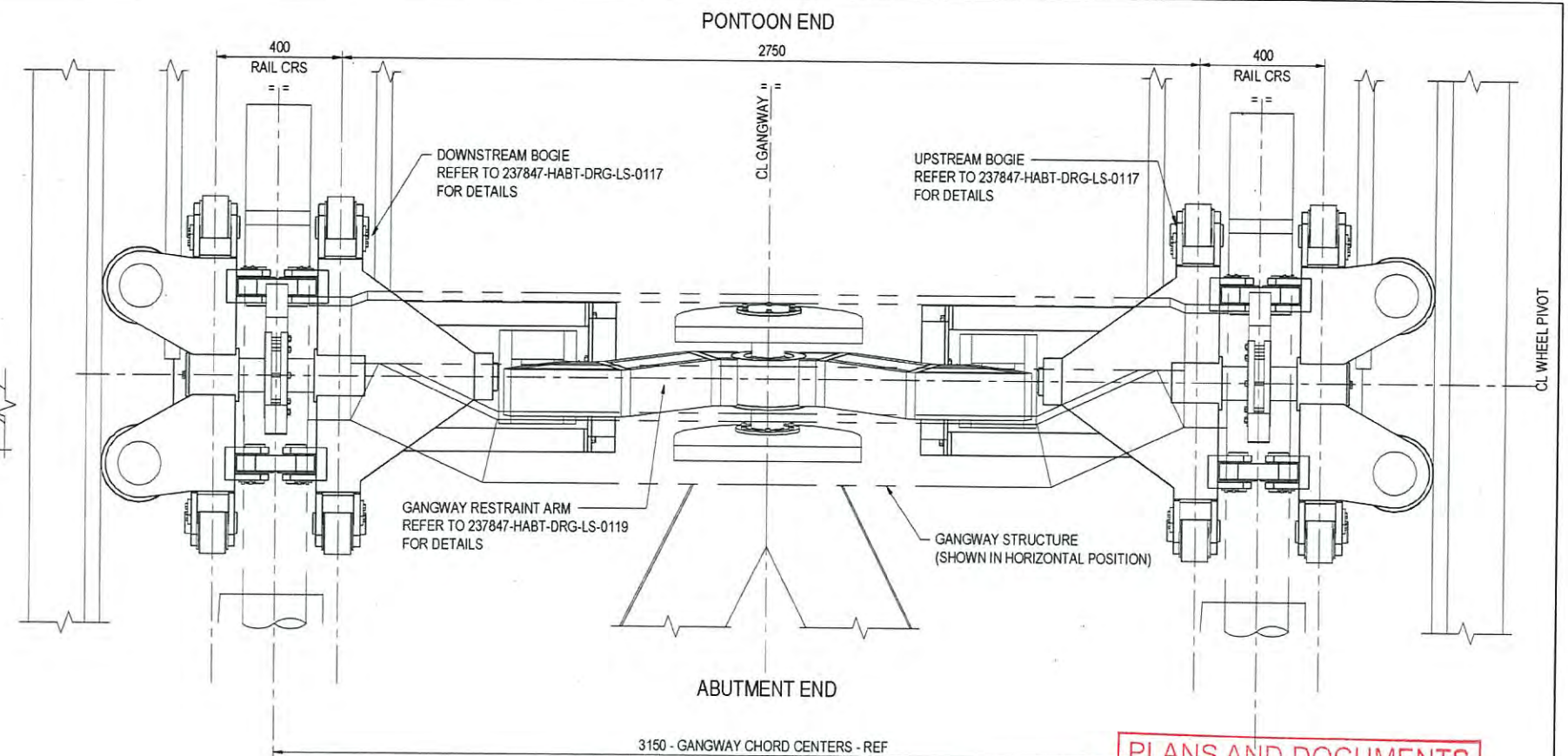
3D VIEW
NTS
(PONTOON REMOVED FOR CLARITY)



3D VIEW
NTS
(PONTOON REMOVED FOR CLARITY)



SECTION A
1:10
(GANGWAY SHOWN IN HORIZONTAL POSITION)



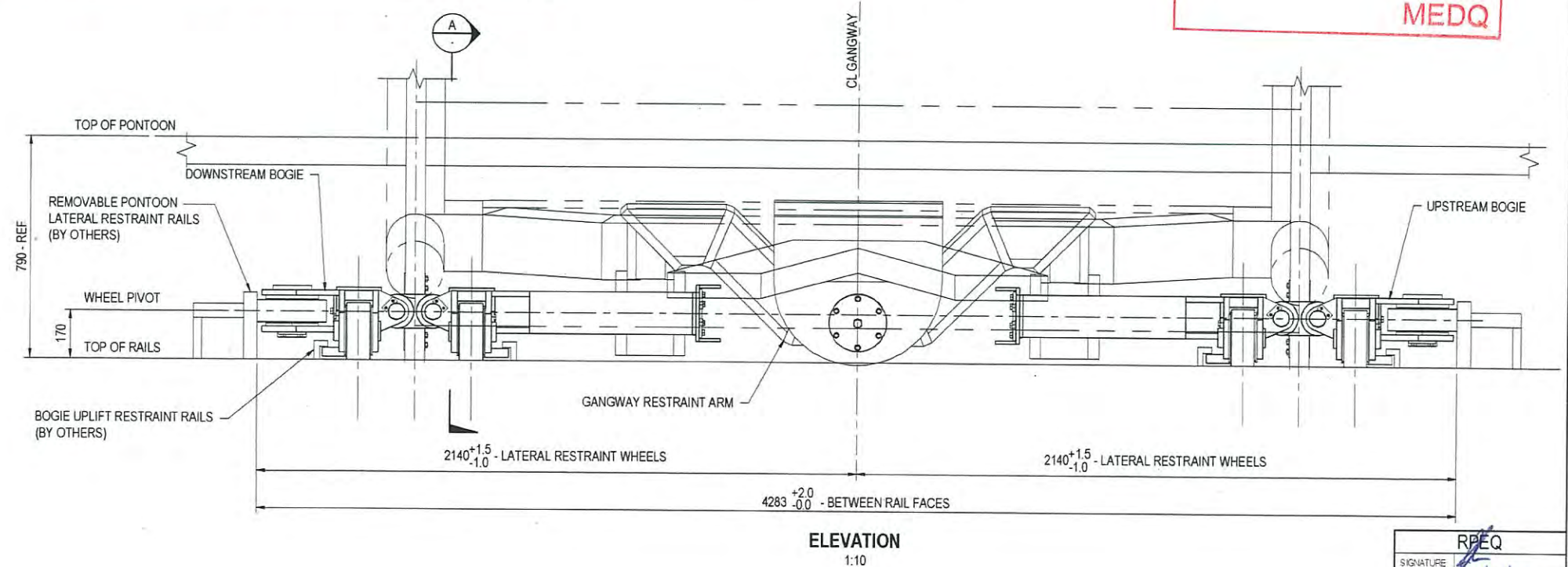
BRETT'S WHARF TERMINAL GEOMETRY SHOWN ON ALL DRAWINGS
HAWTHORNE TERMINAL TO BE OPPOSITE HAND AS NOTED

ASSEMBLY PLAN OF GANGWAY BOGIES
1:10
(GANGWAY SHOWN IN HORIZONTAL POSITION)

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

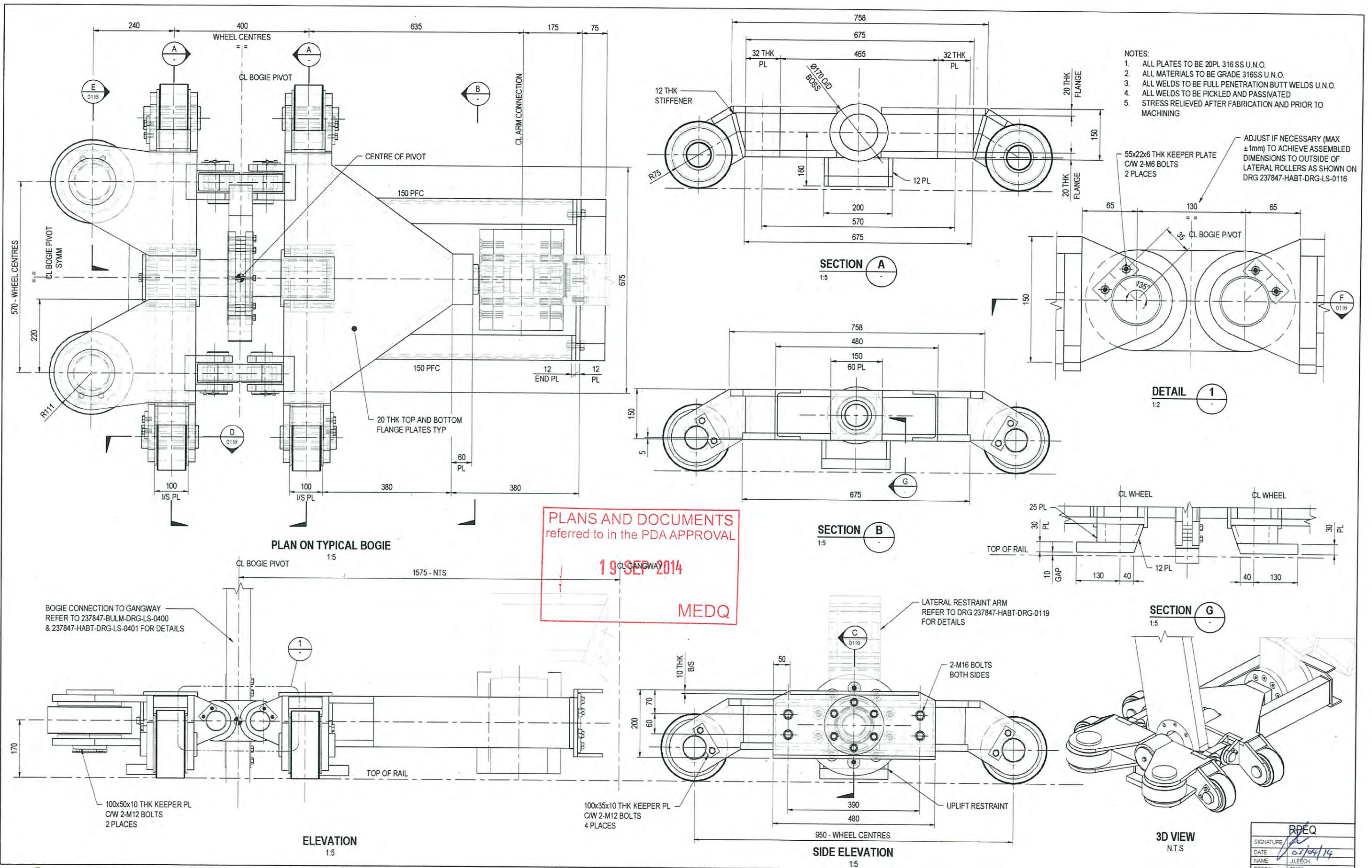
19 SEP 2014

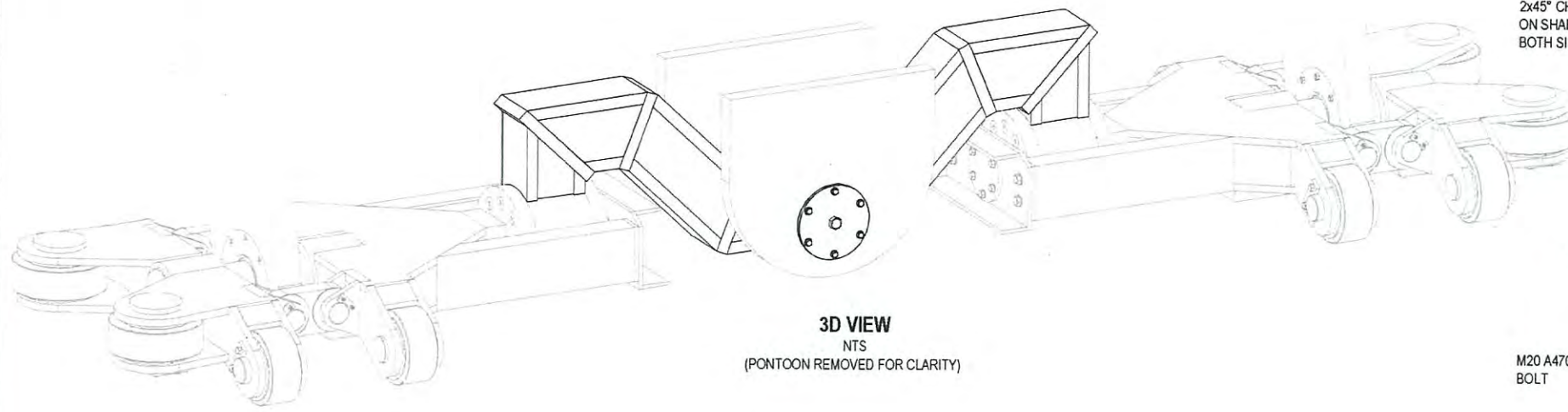
MEDQ



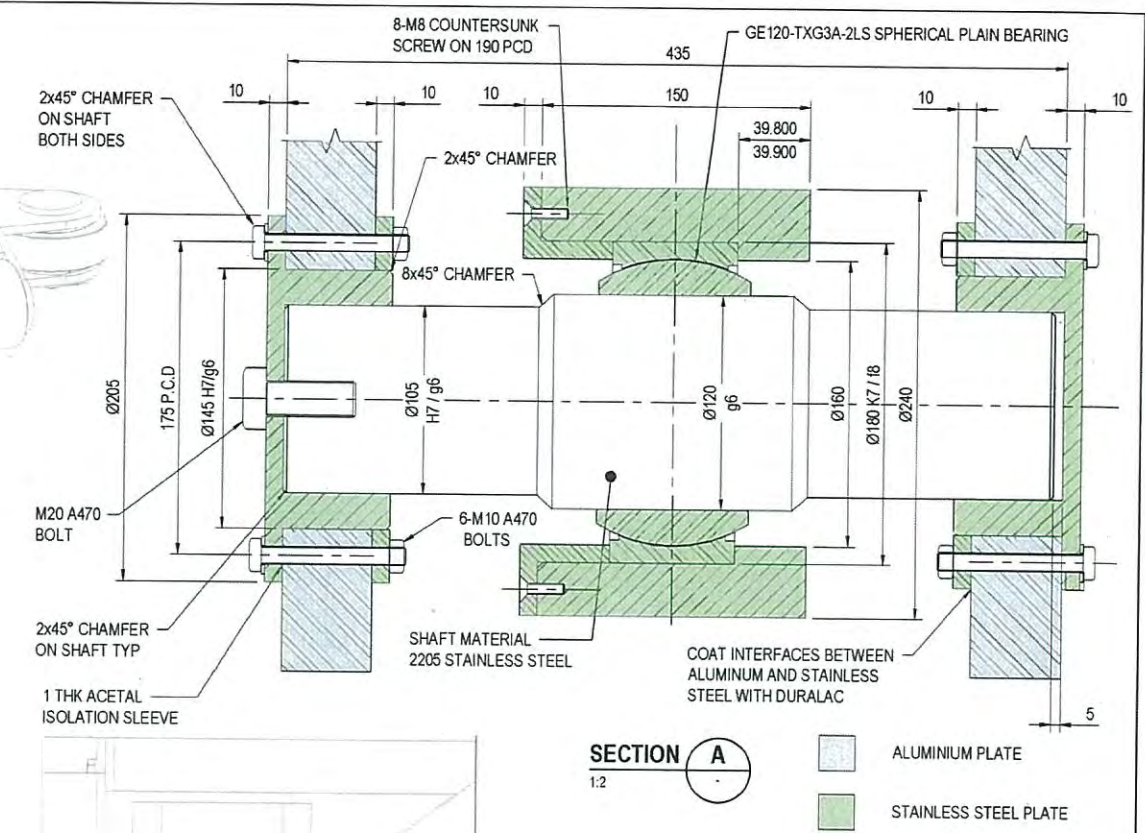
ELEVATION
1:10

RPEQ
SIGNATURE
DATE
NAME
RPEQ No





3D VIEW
NTS
(PONTOON REMOVED FOR CLARITY)



SECTION A
1:2

ALUMINIUM PLATE
STAINLESS STEEL PLATE

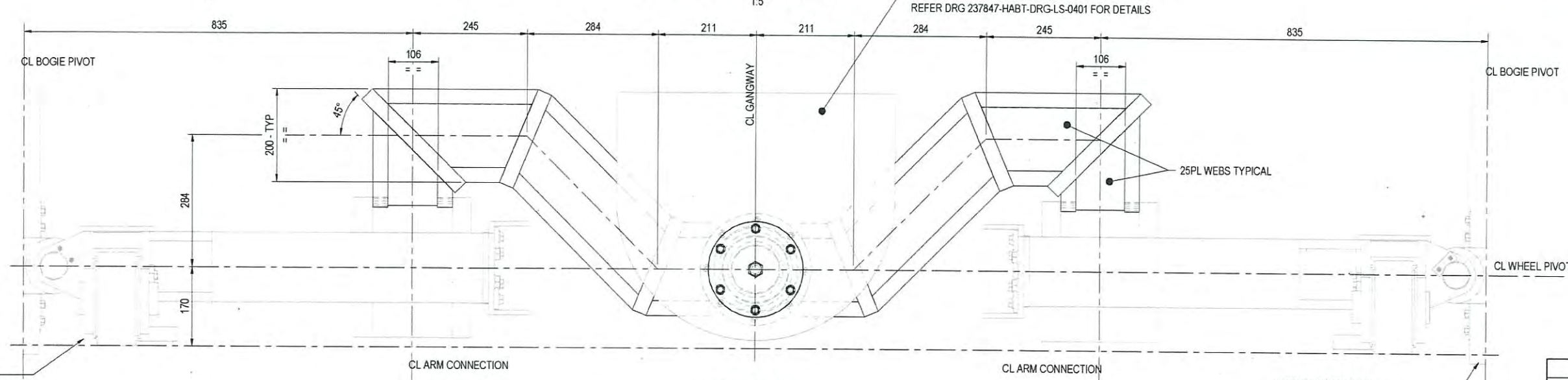
- NOTE:**
1. ALL PLATES TO BE 32PL 316 SS U.N.O.
 2. ALL MATERIALS TO BE GRADE 316SS U.N.O.
 3. ALL WELDS TO BE FULL PENETRATION BUTT WELDS U.N.O.
 4. ALL WELDS TO BE PICKLED AND PASSIVATED
 5. STRESS RELIEVED AFTER FABRICATION AND PRIOR TO MACHINING

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

19 SEP 2014

MEDQ

PLAN OF BOGIE RESTRAINT ARM
1:5



ELEVATION
1:5

UPSTREAM BOGIE
REFER DRG 237847-HABT-DRG-LS-0117
FOR DETAILS

DOWNSTREAM BOGIE
REFER DRG 237847-HABT-DRG-LS-0117
FOR DETAILS

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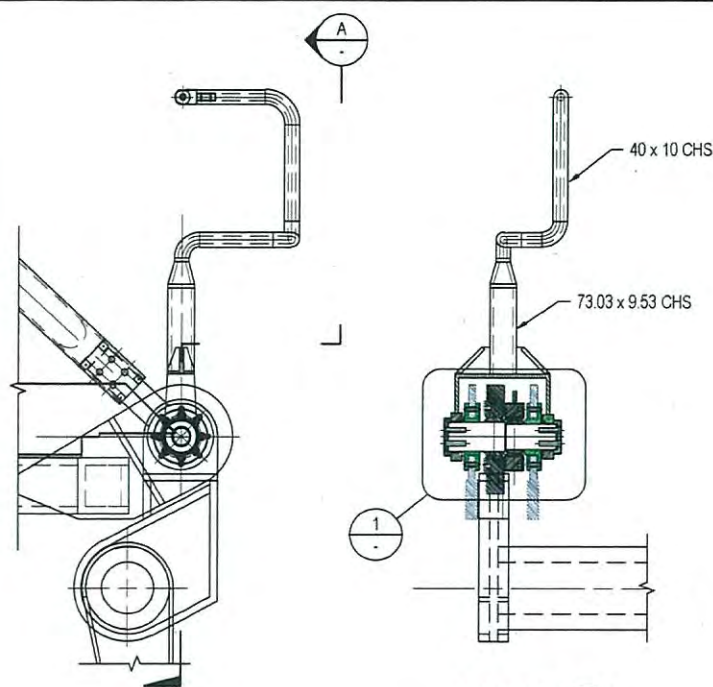
SUB-CONSULTANT
CLIENT
BRISBANE CITY

REV	DATE	REVISION DETAILS	APPROVED
1	02.04.14	ISSUED FOR CONSTRUCTION	ANILSEN

SCALE AS SHOWN	SIZE A1
DRAWN L.CHACZKO	DESIGNED D.HUNDSCHIEDT
VERIFIED L.WILLIAMS	FOR CONSTRUCTION PROJECT DIRECTOR DATE 02.04.14 ANILSEN

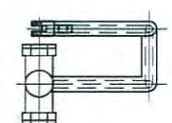
					RPEQ No	09606
PROJECT	BRETT'S WHARF, BULIMBA AND HAWTHORNE FERRY TERMINAL GANGWAYS - BRISBANE RIVER					
TITLE	HAWTHORNE AND BRETT'S WHARF TERMINALS 26M DISABLED ACCESS GANGWAY BOGIE RESTRAINT ARM DETAILS					
DRAWING No.	PROJECT No.	WBS	TYPE	DISC	NUMBER	REV
	237847	- HABT	- DRG	- LS	- 0119	- 1

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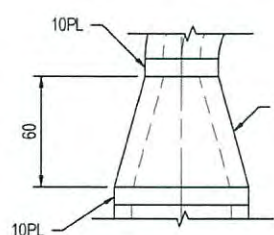


SECTION A
1:10

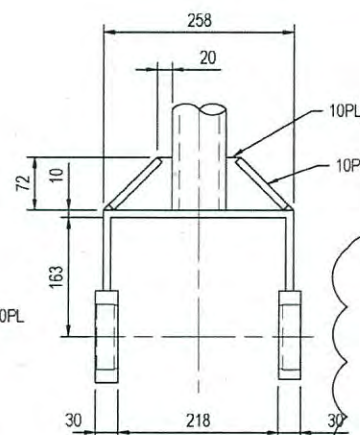
HANDRAIL CONNECTION ABUTMENT TO GANGWAY ASSEMBLY
1:10



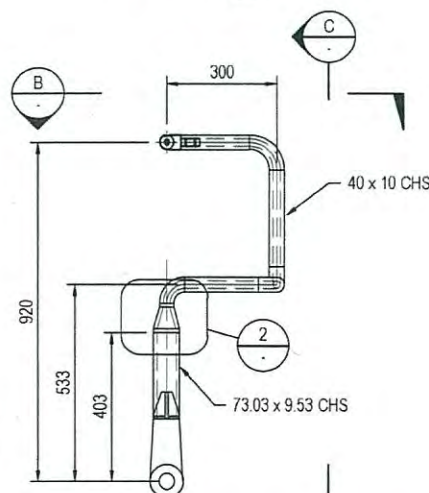
VIEW B
1:10



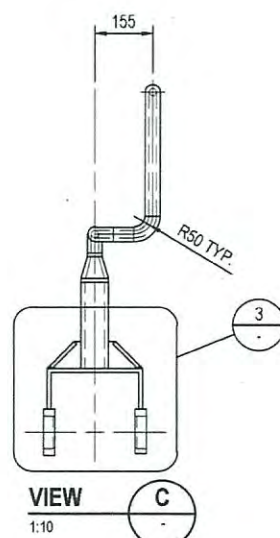
DETAIL 2
1:2



DETAIL 3
1:5

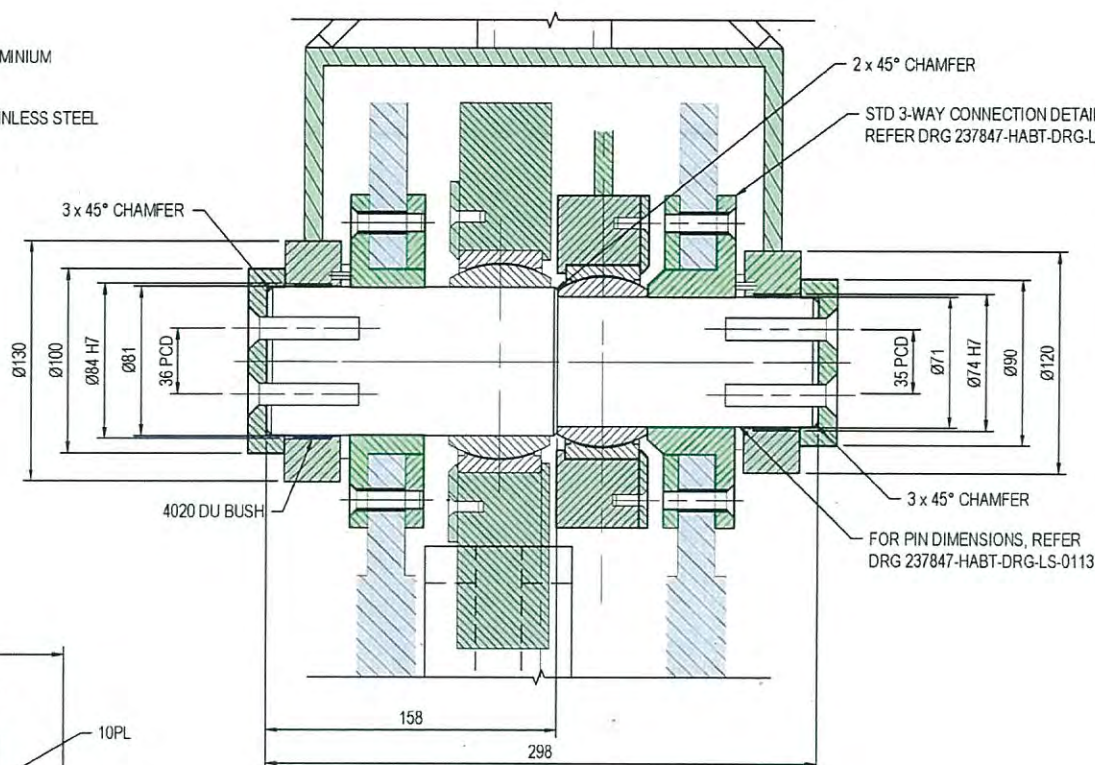


HANDRAIL CONNECTION ABUTMENT TO GANGWAY
1:10

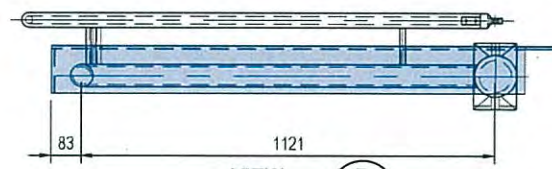


VIEW C
1:10

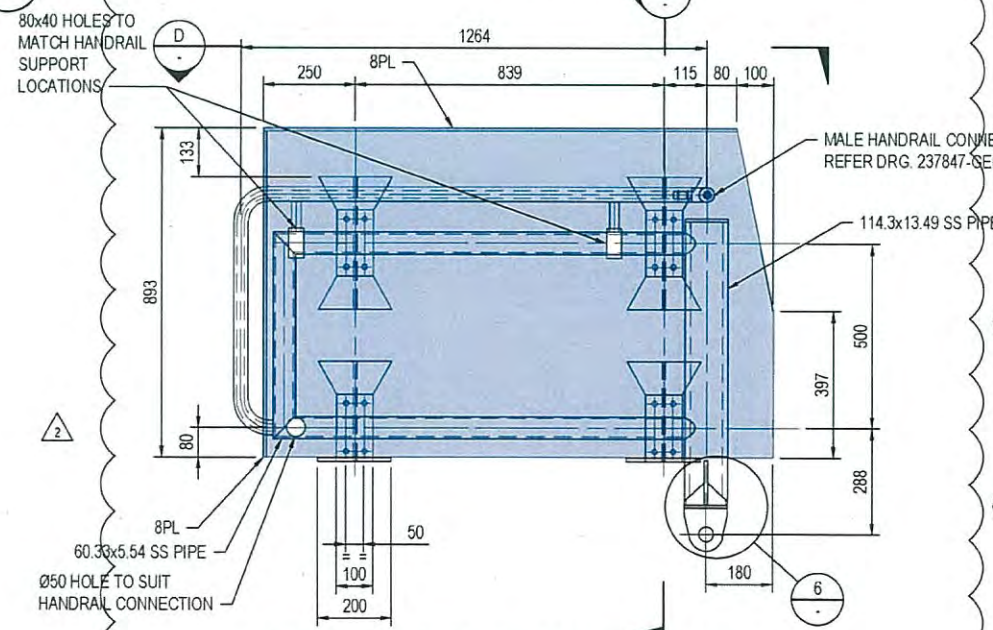
ALUMINIUM
STAINLESS STEEL



DETAIL 1
1:2

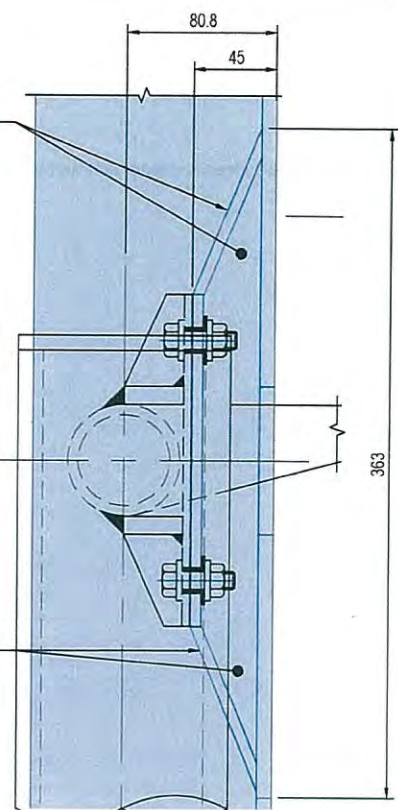


VIEW D
1:10

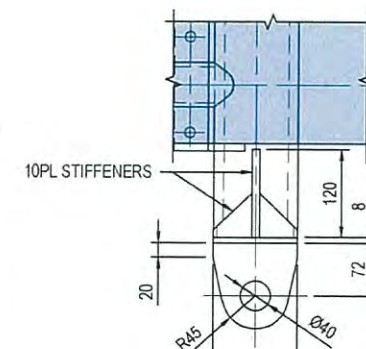


GANGWAY TO PONTOON HANDRAIL CONNECTION
1:10

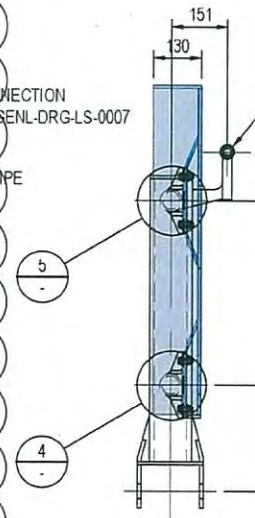
PLANS AND DOCUMENTS
referred to in the PDA APPROVAL
19 SEP 2014
MEDQ



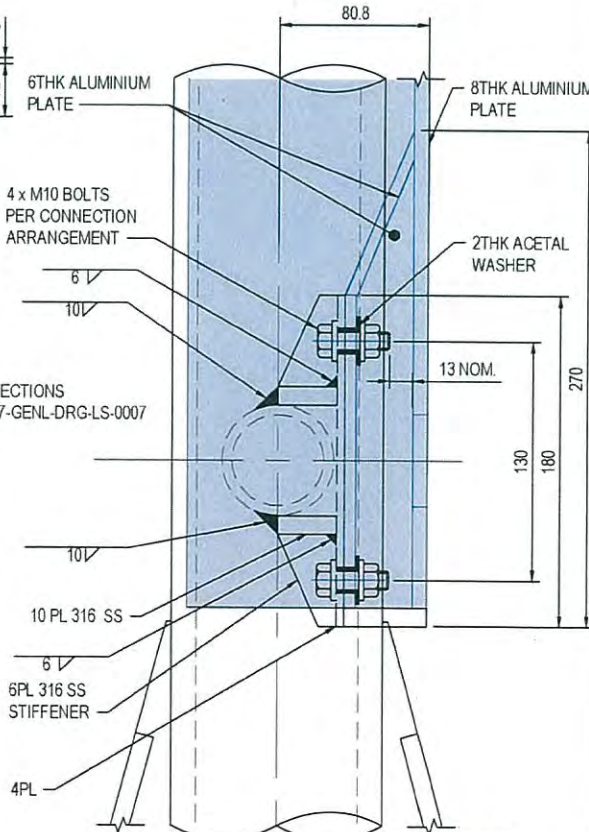
DETAIL 5
1:2 (FOR ALL OTHER DETAILS, REFER DETAIL 4)



DETAIL 6
1:5



SECTION E
1:10



DETAIL 4
1:2

- NOTES:
- ALL HANDRAILS TO BE 316 SS U.N.O.
 - ALL WELDS TO BE FULL PEN. BUTT U.N.O.

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SUB-CONSULTANT

CLIENT



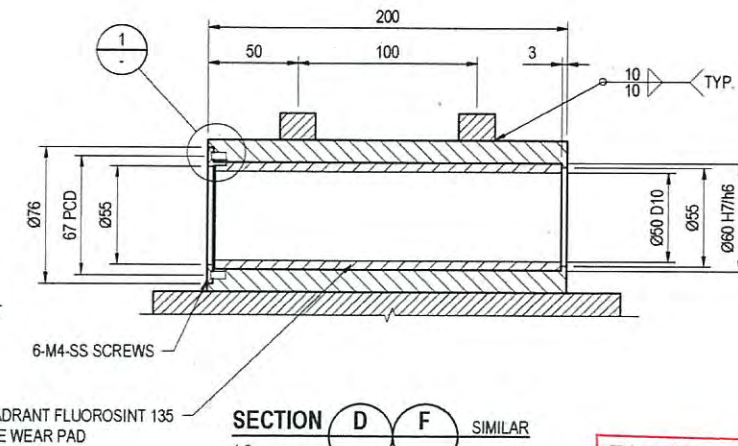
Dedicated to a better Brisbane

REV	DATE	REVISION DETAILS
2	09.05.14	GANGWAY TO PONTOON HANDRAIL MODIFIED
1	02.04.14	ISSUED FOR CONSTRUCTION

APPROVED	SCALE	SIZE
A.NILSEN	AS SHOWN	A1
A.NILSEN	DRAWN	
	N.BIRCH	
	DESIGNED	
	D.HUNDSCHIEDT	
	VERIFIED	
	L.WILLIAMS	

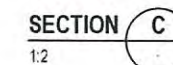
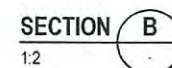
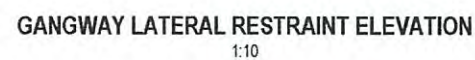
FOR CONSTRUCTION	PROJECT DIRECTOR	DATE
A.NILSEN		02.04.14

PROJECT	TITLE	DRAWING No.	PROJECT No.	WBS	TYPE	DISC	NUMBER	REV
BRETT'S WHARF, BULIMBA AND HAWTHORNE FERRY TERMINAL GANGWAYS - BRISBANE RIVER	HAWTHORNE AND BRETT'S WHARF TERMINALS 26M GANGWAY TO PONTOON HANDRAIL DETAIL	237847	HABT	DRG	LS	0120	-	2



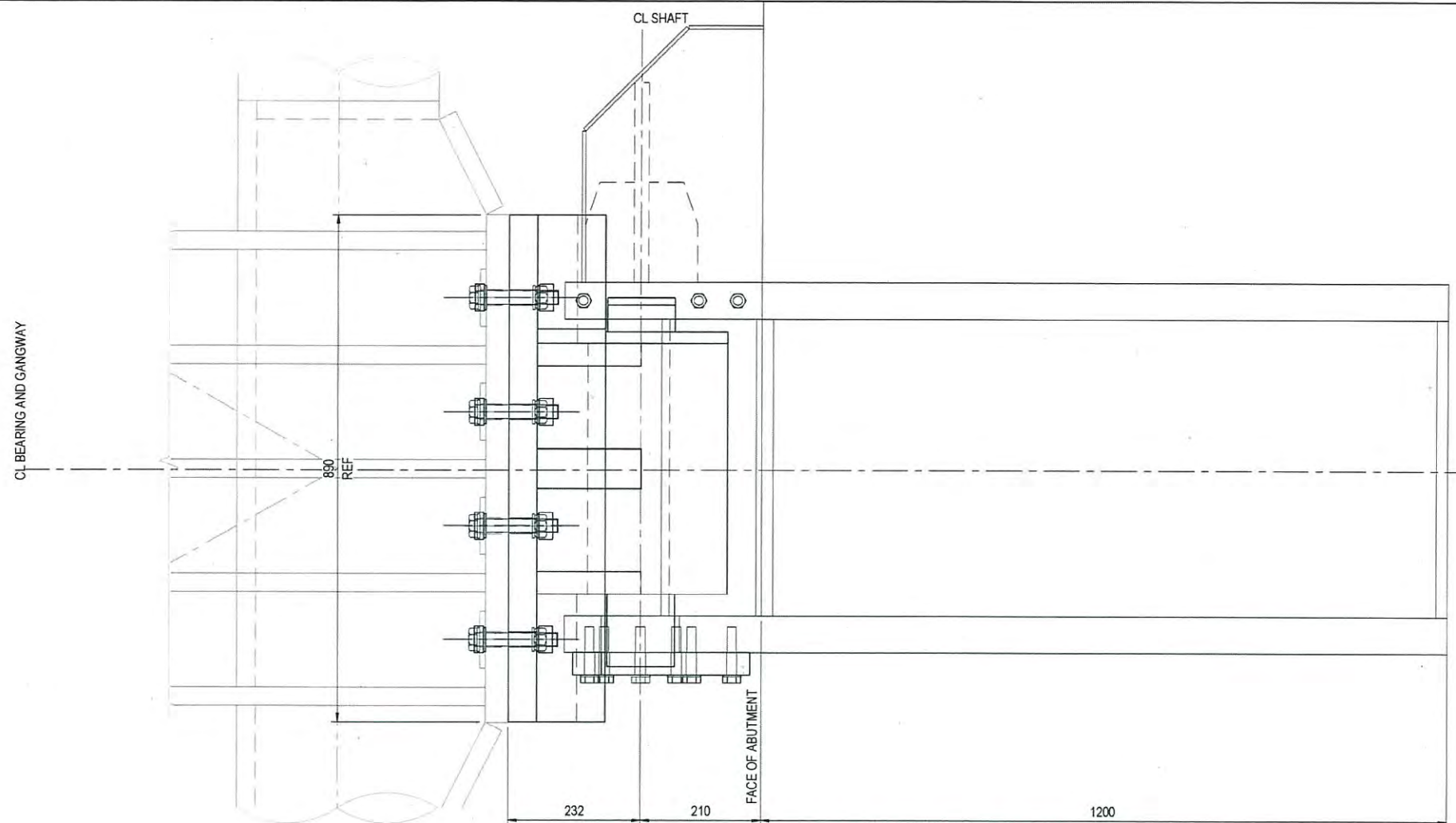
BRETT'S WHARF SHOWN OPPOSITE HAND TO HAWTHORNE TO
ENSURE LATERAL RESTRAINT IS ON DOWNSTREAM SIDE

MEDQ

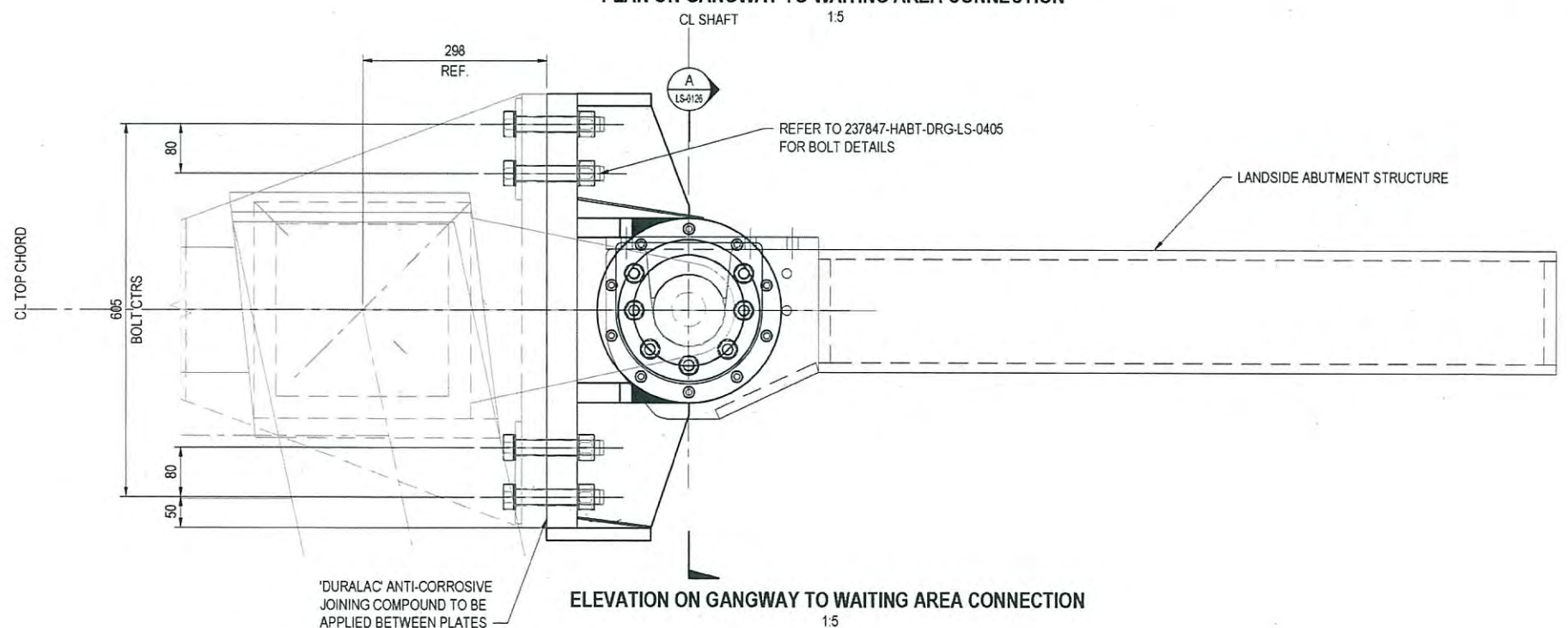


WALKWAY NOT SHOWN FOR CLARITY

RPEQ	
SIGNATURE	<i>[Signature]</i>
DATE	05/4/14
NAME	J L ESOCH
RPEQ No.	0808



PLAN ON GANGWAY TO WAITING AREA CONNECTION



ELEVATION ON GANGWAY TO WAITING AREA CONNECTION

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

19 SEP 2014

MEDQ

- NOTES:
1. ALL MATERIALS TO BE GR 316 SS U.N.O.
 2. ALL WELDS TO BE FULL PENETRATION BUTT WELDS U.N.O.
 3. ALL WELDS TO BE PICKLED AND PASSIVATED

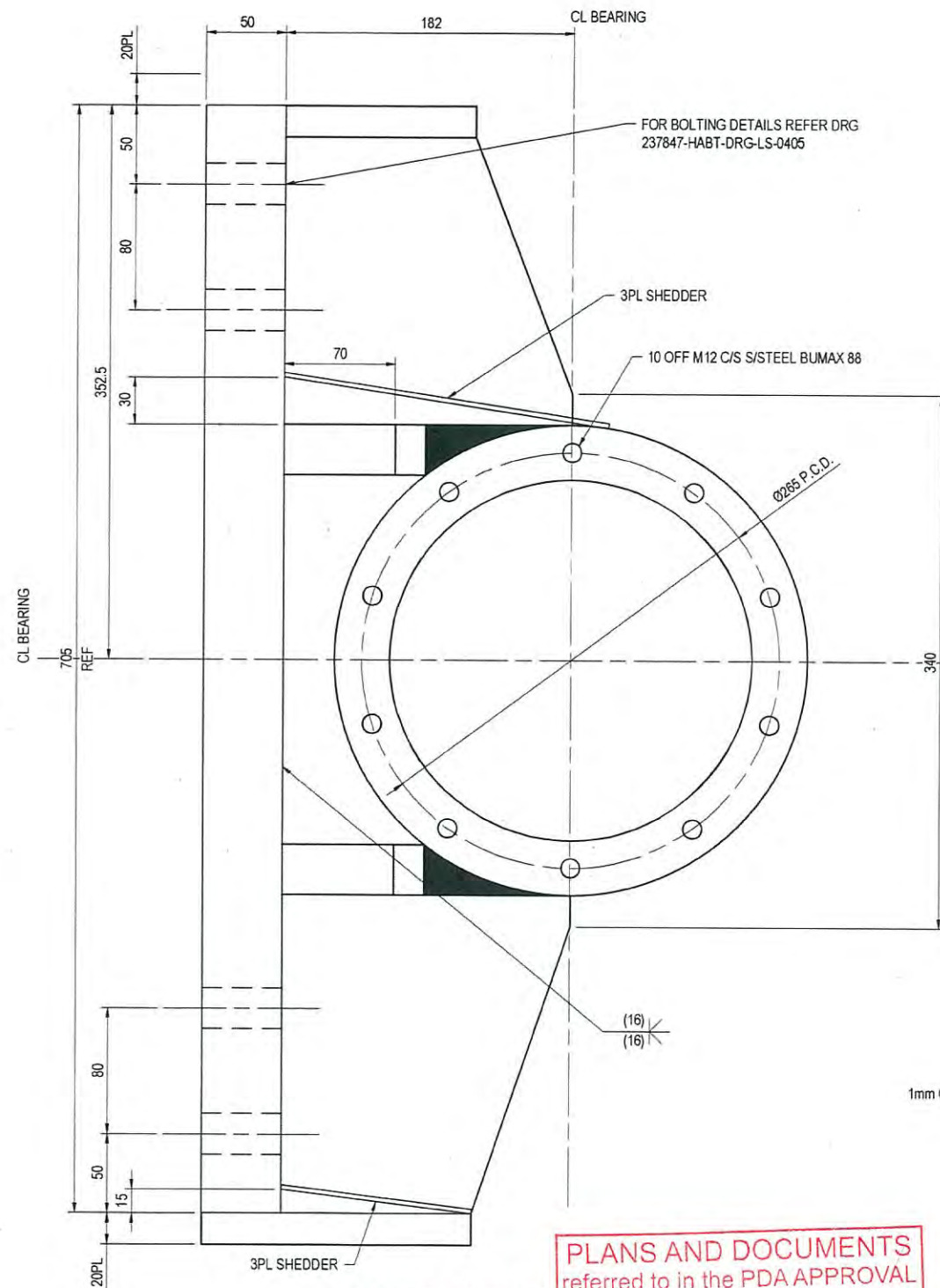
SIGNATURE	RPEQ
DATE	19/09/14
NAME	J. LEBCH
RPEQ No.	09026

REV	DATE	REVISION DETAILS
1	02.04.14	ISSUED FOR CONSTRUCTION

APPROVED	SCALE	SIZE
	AS SHOWN	A1
	DRAWN	
	K.CHEONG	
	DESIGNED	
	D.HUNDSCHIEDT	
	VERIFIED	
	L.WILLIAMS	

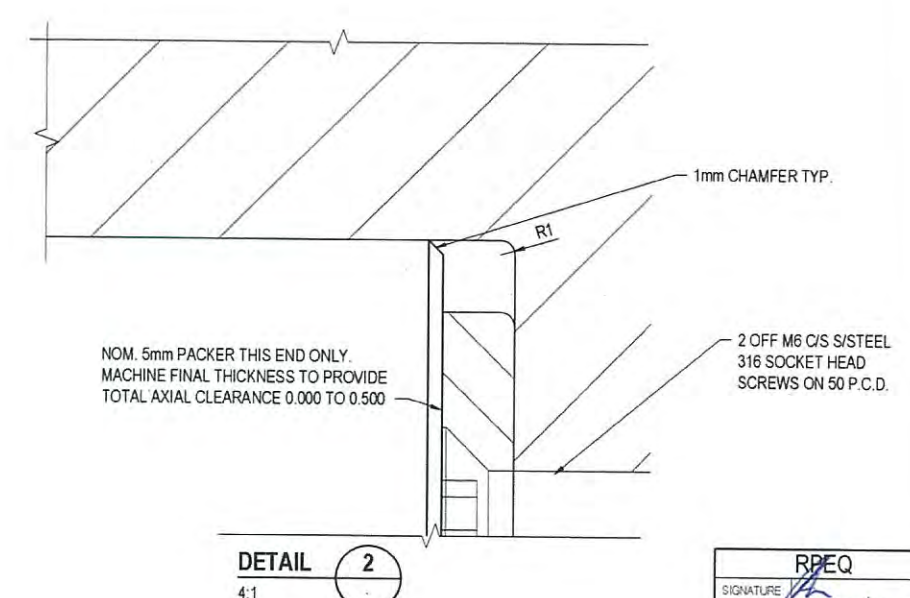
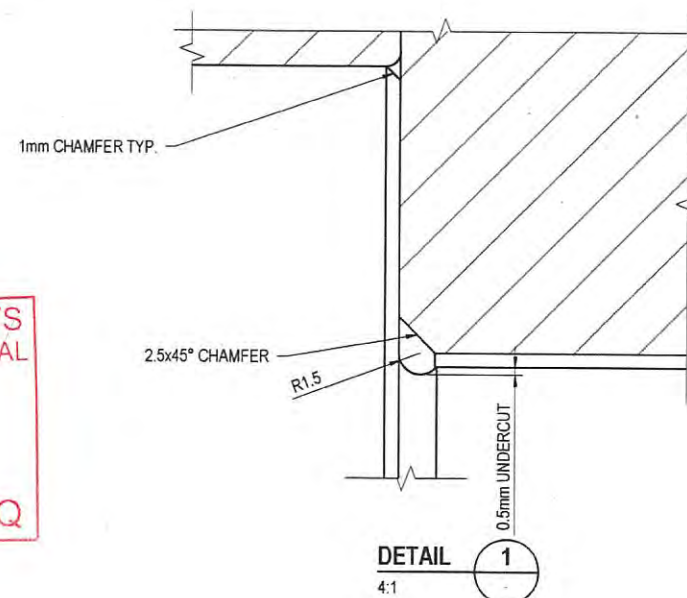
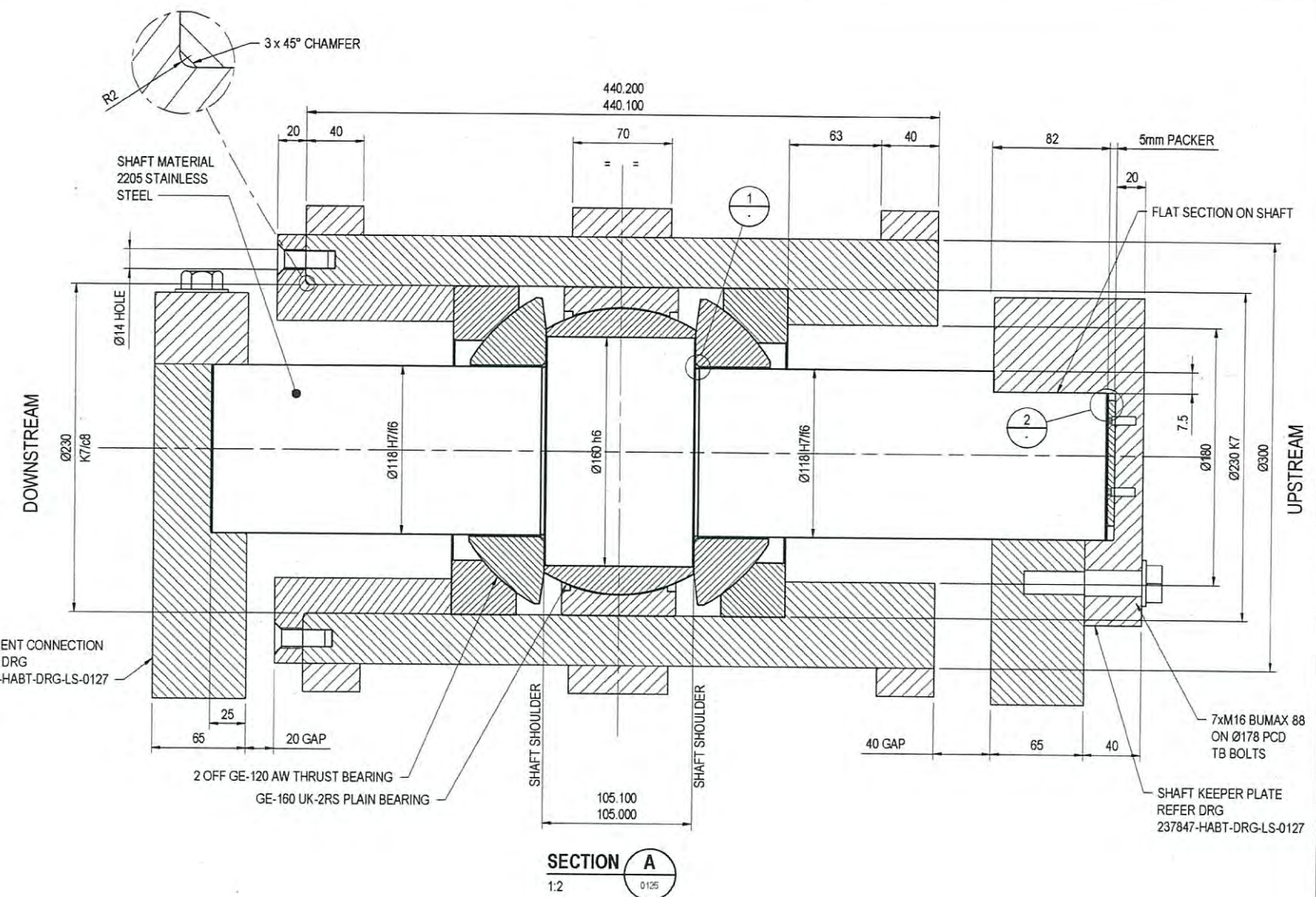
FOR CONSTRUCTION
APPROVED
PROJECT DIRECTOR
A.NILSEN
DATE
02.04.14
A.NILSEN

PROJECT	BRITTS WHARF, BULIMBA AND HAWTHORNE FERRY TERMINAL GANGWAYS - BRISBANE RIVER
TITLE	HAWTHORNE AND BRITTS WHARF TERMINALS LATCH CONNECTION GENERAL ARRANGEMENT
DRAWING No.	237847
PROJECT No.	237847
WBS	HABT
TYPE	DRG
DISC	LS
NUMBER	0125
REV	1



ELEVATION ON GANGWAY SIDE CONNECTION

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL
19 SEP 2014
MEDQ



- NOTES:
1. ALL MATERIALS TO BE GR 316 SS U.N.O.
 2. ALL WELDS TO BE FULL PENETRATION BUTT WELDS U.N.O.
 3. ALL WELDS TO BE PICKLED AND PASSIVATED

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REV DATE REVISION DETAILS

REV	DATE	REVISION DETAILS
1	02.04.14	ISSUED FOR CONSTRUCTION

APPROVED

A.NILSEN

SCALE AS SHOWN

DRAWN K.CHEONG
DESIGNED D.HUNDSCHIEDT
VERIFIED L.WILLIAMS

FOR CONSTRUCTION

APPROVED PROJECT DIRECTOR	DATE 02.04.14
A.NILSEN	

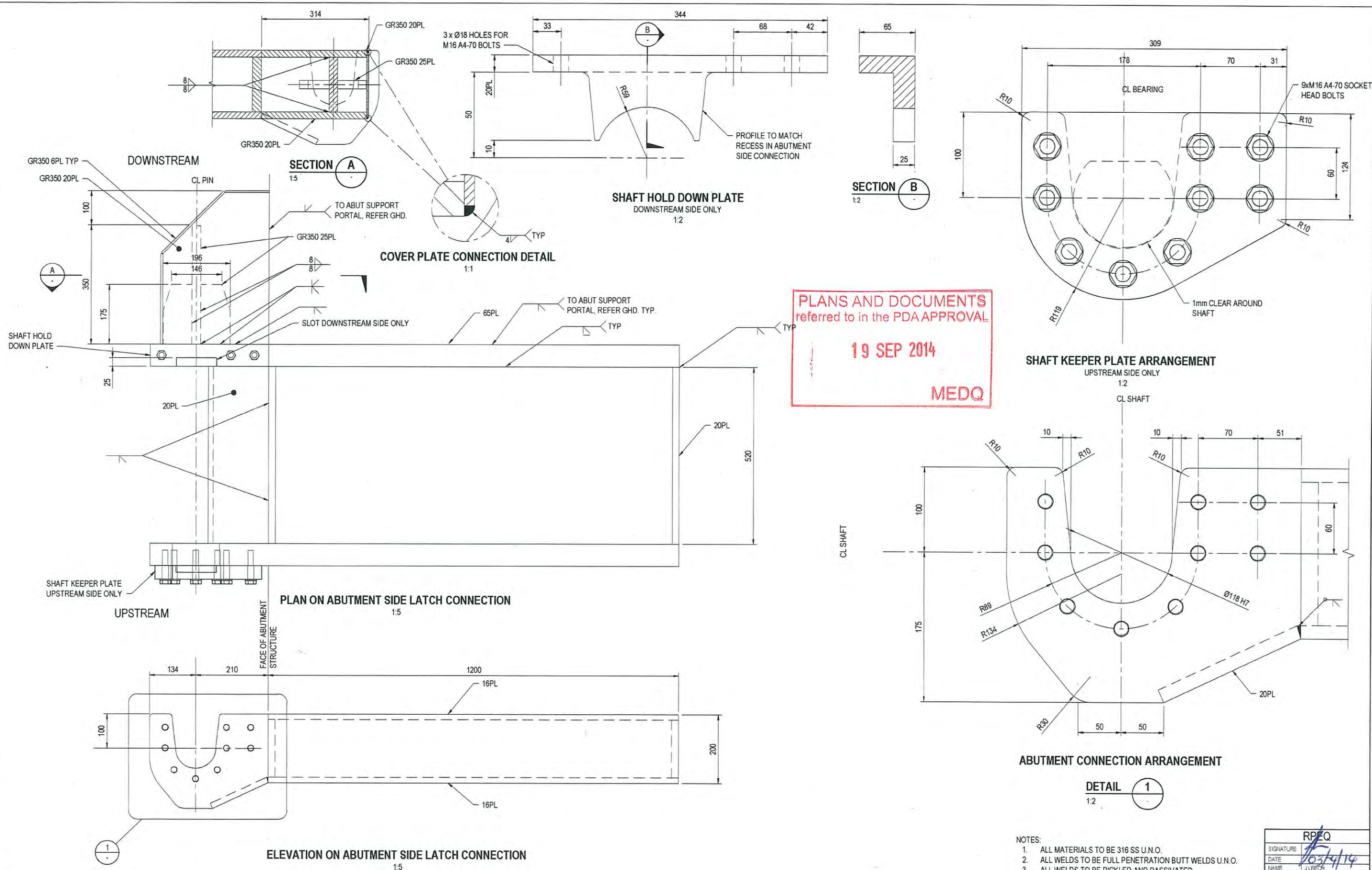
PROJECT

TITLE

BRETTS WHARF, BULIMBA AND HAWTHORNE
FERRY TERMINAL GANGWAYS - BRISBANE RIVER
HAWTHORNE AND BRETTS WHARF TERMINALS
LATCH CONNECTION DETAILS
SHEET 1 OF 2

DRAWING No.	PROJECT No.	WEB	TYPE	DISC	NUMBER	REV
237847	HABT	DRG	LS	0126	1	

RREQ
SIGNATURE J. LEECH
DATE 03/04/14
NAME J. LEECH
RREQ No. 09026



- NOTES:
1. ALL MATERIALS TO BE 316 SS U.N.O.
 2. ALL WELDS TO BE FULL PENETRATION BUTT WELDS U.N.O.
 3. ALL WELDS TO BE PICKLED AND PASSIVATED

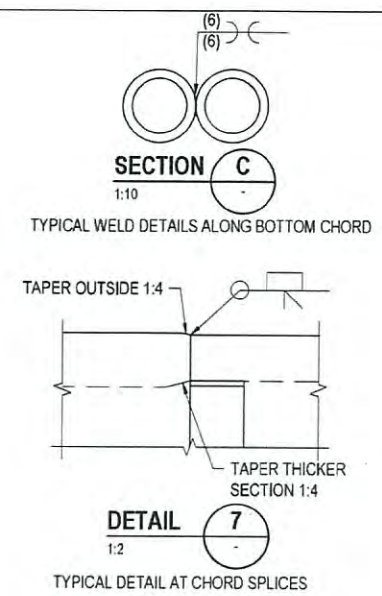
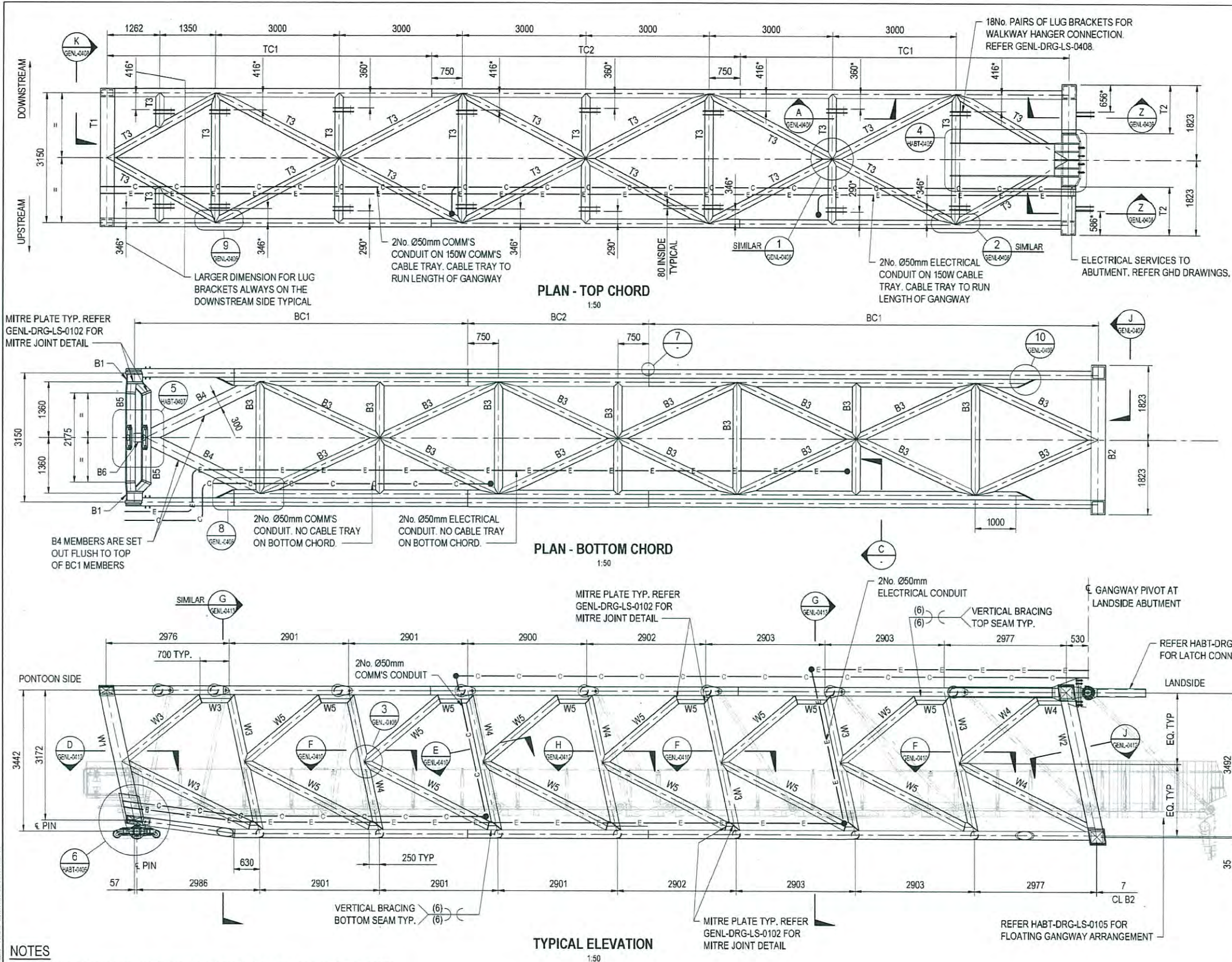
RPEQ	
SIGNATURE	
DATE	10/3/14
NAME	J. LEECH
RPEQ No	09636

REV	DATE	REVISION DETAILS
1	02.04.14	ISSUED FOR CONSTRUCTION

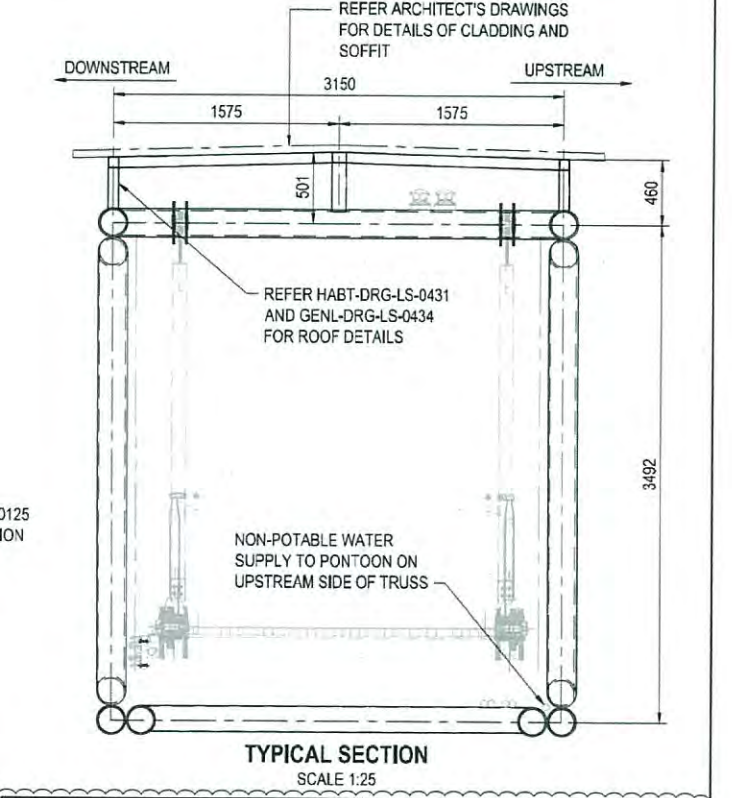
APPROVED	SCALE	SIZE
	AS SHOWN	A1
DRAWN		
K.CHEONG		
DESIGNED		
D.HUNDSCHIEDT		
VERIFIED		
L.WILLIAMS		

FOR CONSTRUCTION	APPROVED	DATE
	PROJECT DIRECTOR	02.04.14

PROJECT	BRETTS WHARF, BULIMBA AND HAWTHORNE FERRY TERMINAL GANGWAYS - BRISBANE RIVER
TITLE	HAWTHORNE AND BRETTS WHARF TERMINALS LATCH CONNECTION DETAILS
SHEET	2 OF 2
DRAWING No	237847
PROJECT No	
WBS	HABT
TYPE	DRG
DISC	LS
NUMBER	0127
REV	1



GANGWAY TRUSS MEMBER SCHEDULE	
MEMBER	ALUMINIUM SIZE
TC1	203.2 x 25.4 CHS
TC2	205.6 x 30 CHS
T1	350 x 205 x 32 RHS
T2	350 x 32 SHS
T3	200 x 12 CHS
BC1	203.2 x 25.4 CHS
BC2	205.6 x 30 CHS
B1	370 x 205 x 32 RHS
B2	350 x 32 SHS
B3	200 x 12 CHS
B4	300 x 90 x 20 RHS
B5	205 x 205 x 20 SHS
B6	205 x 205 x 10 SHS
W1	350 x 205 x 32 RHS
W2	350 x 32 SHS
W3	205.6 x 30 CHS
W4	203.2 x 25.4 CHS
W5	203.2 x 19.05 CHS



- NOTES**
- ALL GANGWAY MEMBERS AND PLATEWORK, INCLUDING ROOF, TO BE ALUMINIUM. REFER MARINE NOTES FOR GRADE.
 - REFER DRAWINGS GENL-DRG-LS-0100 TO 0101 FOR MARINE NOTES.
 - ALL SERVICES SHALL BE EXTERNAL OF TRUSS STRUCTURE. NO PENETRATIONS SHALL BE MADE IN CLOSED SECTIONS.
 - DIMENSIONS MARKED WITH * ARE TAKEN TO THE OUTSIDE OF PLATE.
 - HAWTHORNE GANGWAY SHOWN ON THIS DRAWING, BRETT'S WHARF TO BE OPPOSITE HAND.

BRETT'S WHARF/HAWTHORNE GANGWAY STRUCTURE LOADING PARAMETERS:

LIVE LOADS

- DISTRIBUTED LOAD: 5kPa
- MAX WHEEL LOAD: 4.5kN

WIND LOAD: DETERMINED IN ACCORDANCE WITH AS 1170.2 USING THE FOLLOWING PARAMETERS

- REGION B
- AVERAGE RECURRENCE INTERVAL (R) 500 YEARS
- TERRAIN CATEGORY 2
- PEAK GUST FOR THE DESIGN OF FIXED ELEMENTS (VR) 57m/s

FLOOD LEVEL AND CURRENT FLOW SPEED

BRETT'S WHARF:

- Q500 DESIGN FLOOD LEVEL 4.2m AHD (INCLUDING 1.0m UNCERTAINTY ALLOWANCE)
- Q500 DESIGN STEADY STATE PEAK SURFACE VELOCITY 4.5m/s

HAWTHORNE:

- Q500 DESIGN FLOOD LEVEL 5.1m AHD (INCLUDING 1.0m UNCERTAINTY ALLOWANCE)
- Q500 DESIGN STEADY STATE PEAK SURFACE VELOCITY 5.4m/s

FLOATING OBJECT IMPACT LOADING

- 5t AT MIDSPAN

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MEDD

BRISBANE CITY

REV	DATE	REVISION DETAILS	APPROVED
2	14.05.14	ISSUED FOR CONSTRUCTION - LOADING PARAMETERS ADDED	ANILSEN
1	02.04.14	ISSUED FOR CONSTRUCTION	ANILSEN

RPEQ

SIGNATURE: *[Signature]*

DATE: 14.05.14

NAME: RICHARD WOOLLARD

RPEQ No: 13790

SCALE: AS SHOWN

SIZE: A1

DRAWN: N.BANKS

DESIGNED: M.LAMBKIN

VERIFIED: R.WOOLLARD

FOR CONSTRUCTION

APPROVED PROJECT DIRECTOR: *[Signature]*

DATE: 14.05.14

ANILSEN

PROJECT: BRETT'S WHARF, BULIMBA AND HAWTHORNE FERRY TERMINAL GANGWAYS - BRISBANE RIVER

TITLE: HAWTHORNE AND BRETT'S WHARF TERMINALS GANGWAY EXTERNAL STRUCTURE STRUCTURAL ARRANGEMENT

DRAWING No: 237847

PROJECT No: 237847

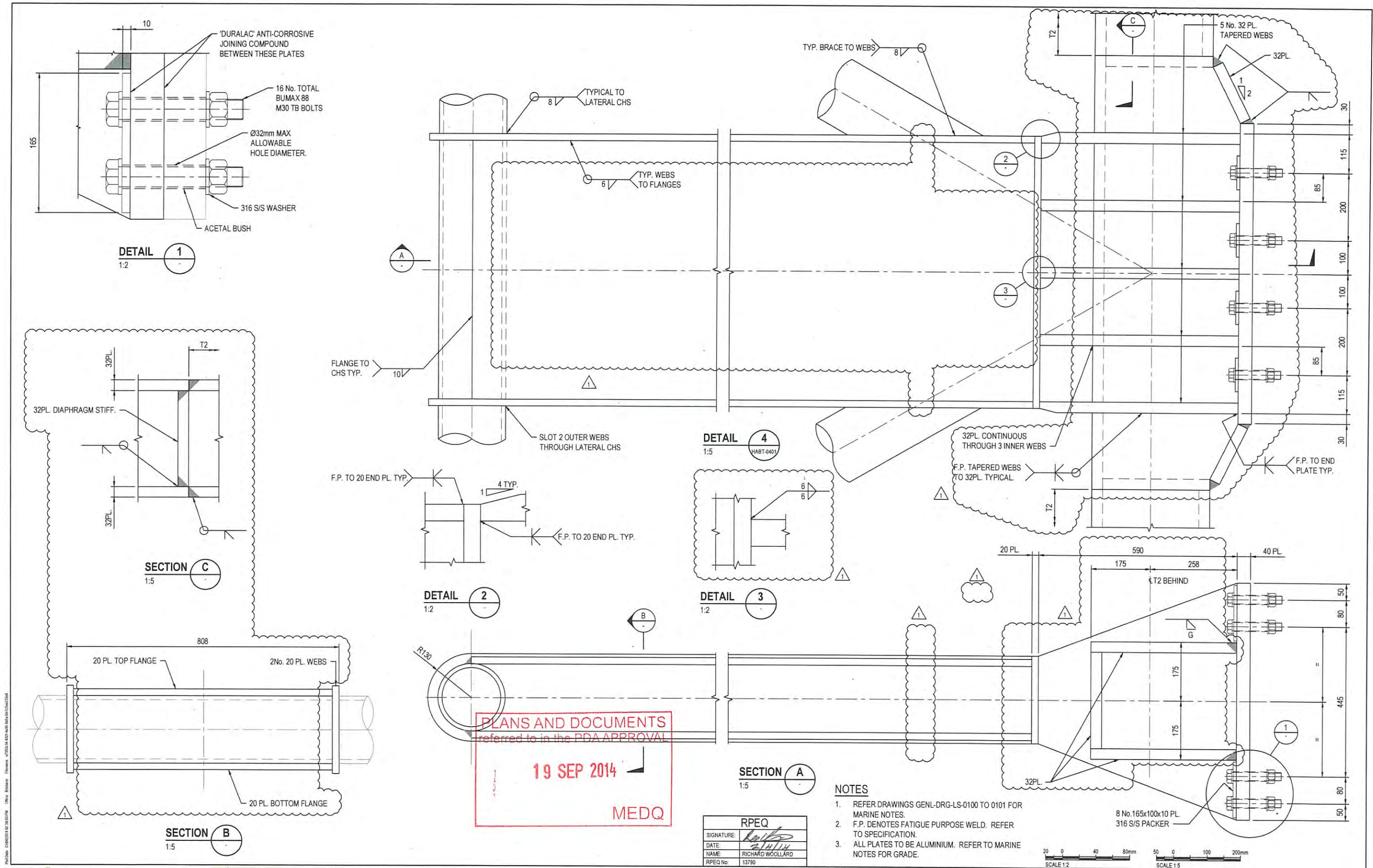
WBS: HABT

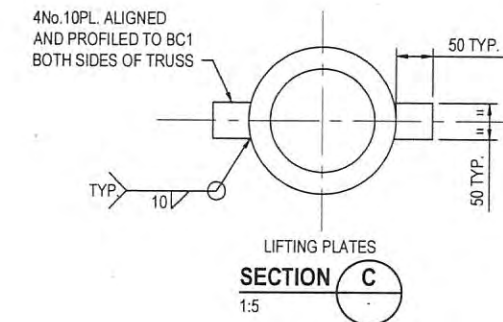
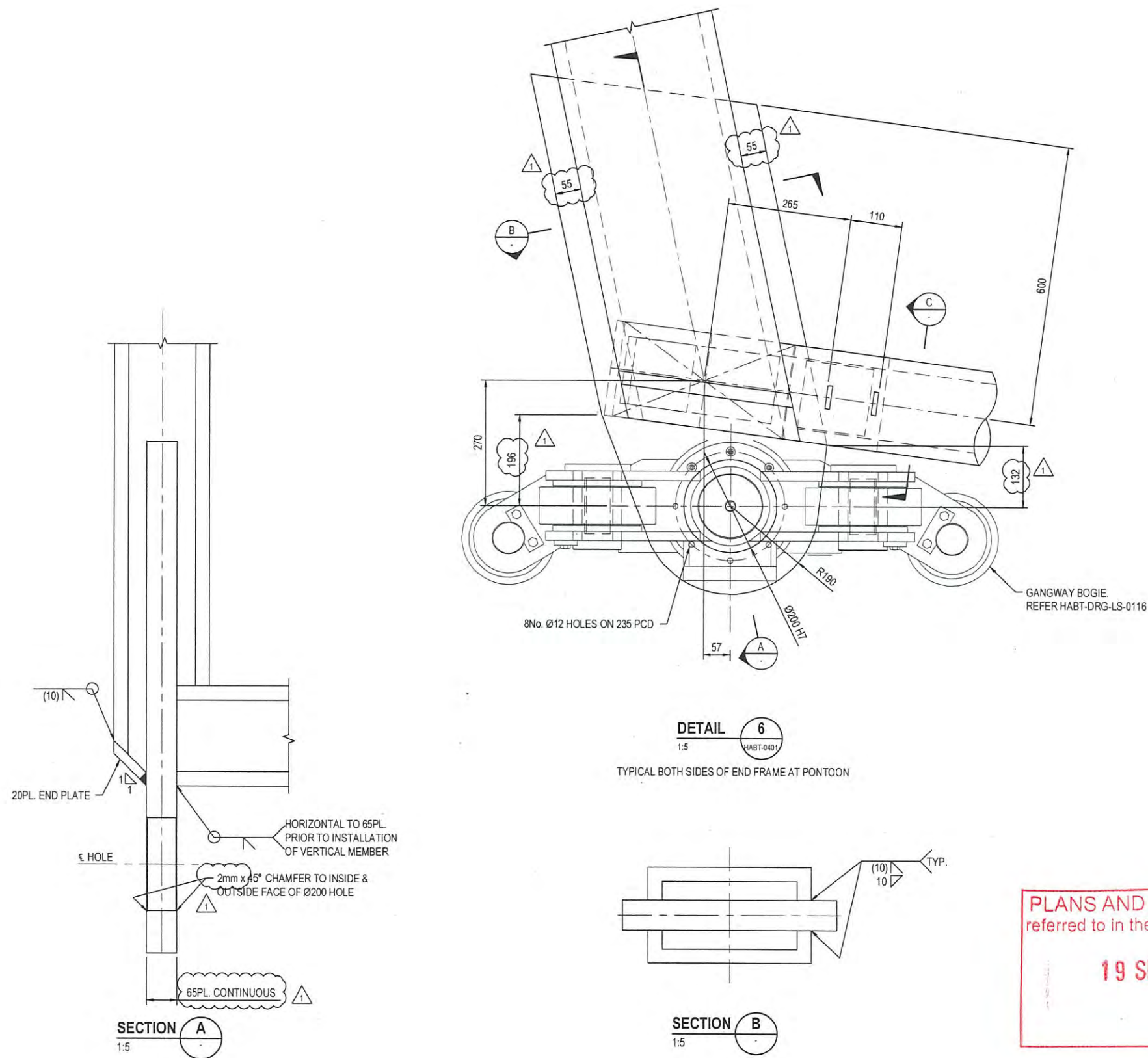
TYPE: DRG

DISC: LS

NUMBER: 0401

REV: 2





NOTE: LIFTING PLATES INTENDED TO GUIDE SOFT SLING FOR MAINTENANCE PURPOSES

RPEQ	
SIGNATURE	<i>Richard Woollard</i>
DATE	21/01/14
NAME	RICHARD WOOLLARD
RPEQ No.	13790

NOTES

1. REFER DRAWINGS GENL-DRG-LS-0100 TO 0101 FOR MARINE NOTES.
2. ALL PLATES TO BE ALUMINIUM. REFER TO MARINE NOTES FOR GRADE.

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

19 SEP 2014

MEDQ

50 0 100 200mm
SCALE 1:5

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CLIENT



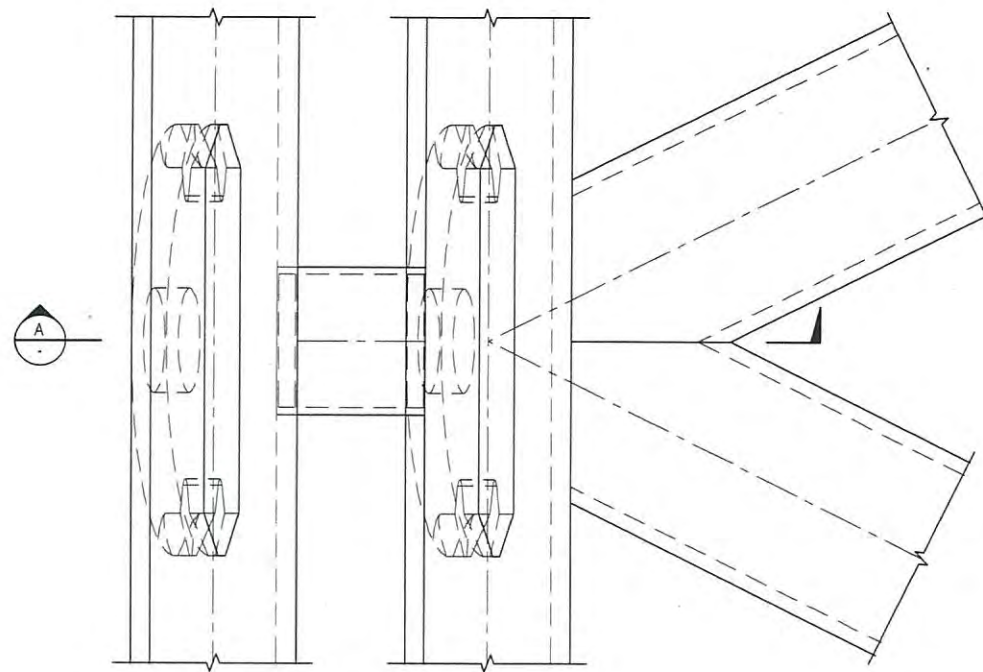
Dedicated to a better Brisbane

REV	DATE	REVISION DETAILS
1	02.04.14	ISSUED FOR CONSTRUCTION

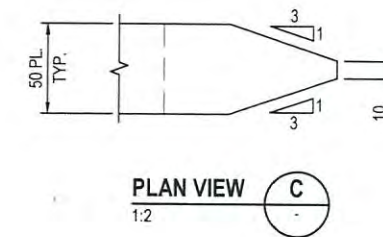
APPROVED	SCALE	SIZE
	1:5	A1
DRAWN D. MULLER		
DESIGNED M. LAMBKIN		
VERIFIED R. WOOLLARD		

FOR CONSTRUCTION	
APPROVED PROJECT DIRECTOR <i>A. NILSEN</i>	DATE 02.04.14
A. NILSEN	

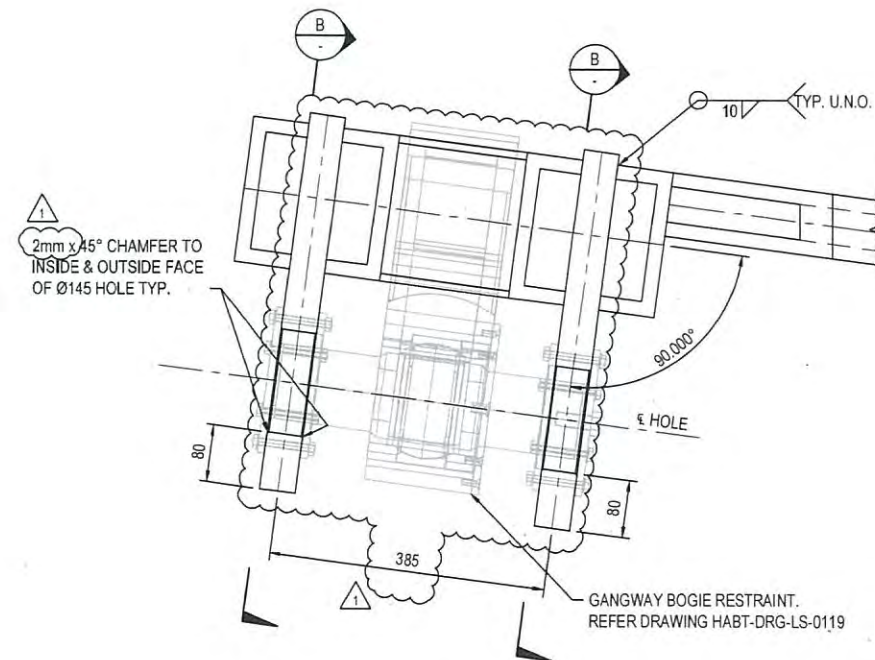
PROJECT	BRETTS WHARF, BULIMBA AND HAWTHORNE FERRY TERMINAL GANGWAYS - BRISBANE RIVER
TITLE	HAWTHORNE AND BRETTS WHARF TERMINALS GANGWAY EXTERNAL STRUCTURE DETAILS - SHEET 2
DRAWING No.	237847
PROJECT No.	237847
YRS	HABT
TYPE	DRG
DISC	LS
NUMBER	0406
REV	1



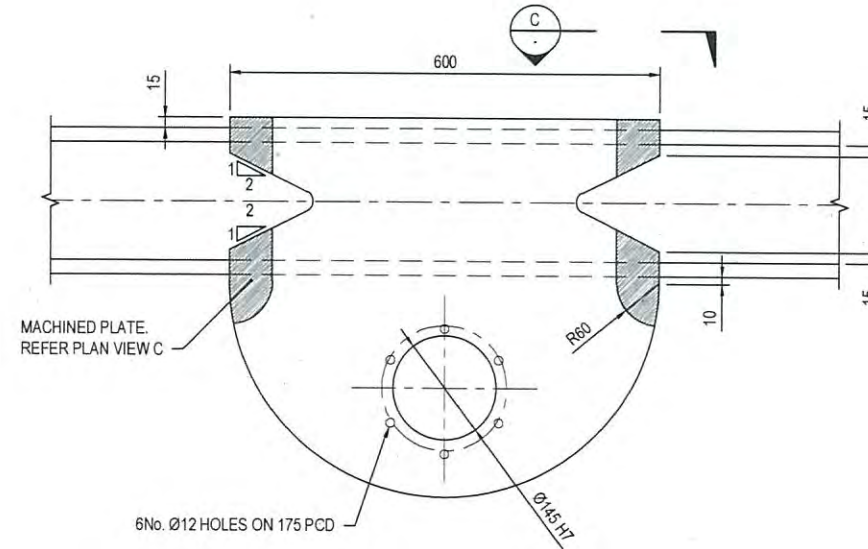
DETAIL 5
1:5



PLAN VIEW C
1:2



SECTION A
1:5



SECTION B
1:5

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

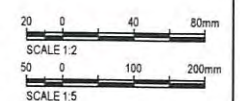
19 SEP 2014

MEDQ

RPEQ	
SIGNATURE:	<i>[Signature]</i>
DATE:	21/9/14
NAME:	RICHARD WOOLLARD
RPEQ No:	13790

NOTES

1. REFER DRAWINGS GENL-DRG-LS-0100 TO 0101 FOR MARINE NOTES.
2. ALL PLATES TO BE ALUMINIUM. REFER TO MARINE NOTES FOR GRADE.



REV	DATE	REVISION DETAILS	APPROVED
1	02.04.14	ISSUED FOR CONSTRUCTION	A.NILSEN

SCALE	SIZE
AS SHOWN	A1
DRAWN	D.MULLER
DESIGNED	M.LAMBKIN
VERIFIED	R.WOOLLARD

FOR CONSTRUCTION	
APPROVED	DATE
PROJECT DIRECTOR	02/04/14
A.NILSEN	

PROJECT	BRETTS WHARF, BULIMBA AND HAWTHORNE FERRY TERMINAL GANGWAYS - BRISBANE RIVER
TITLE	HAWTHORNE AND BRETTS WHARF TERMINALS GANGWAY EXTERNAL STRUCTURE DETAILS - SHEET 3
DRAWING No.	237847
PROJECT No.	237847
WBS	HABT
TYPE	DRG
DESC	LS
NUMBER	0407
REV	1

GANGWAY TRUSS ROOF MEMBER SCHEDULE	
MEMBER	ALUMINIUM SIZE
C1	101.6 x 76.2 x 3.5 RHS
C2	75 x 3 SHS
TB1	101.6 x 76.2 x 3.5 RHS
TB2	100 x 4.5 SHS
TB3	100 x 3 SHS
TB4	100 x 50 x 3 RHS
TB5	75 x 3 SHS
TB6	75 x 2.25 SHS
TB7	75 x 50 x 4 RHS

NOTES

1. ALL GANGWAY ROOF MEMBERS AND PLATEWORK TO BE ALUMINIUM. SEE MARINE NOTES FOR GRADE.
2. REFER DRAWINGS GENL-DRG-LS-0100 TO 0101 FOR MARINE NOTES.
3. REFER HABT-DRG-LS-0401 FOR GANGWAY EXTERNAL TRUSS.
4. WELDS TO ROOF FRAMING TO BE 6CFW ALL ROUND UNO.

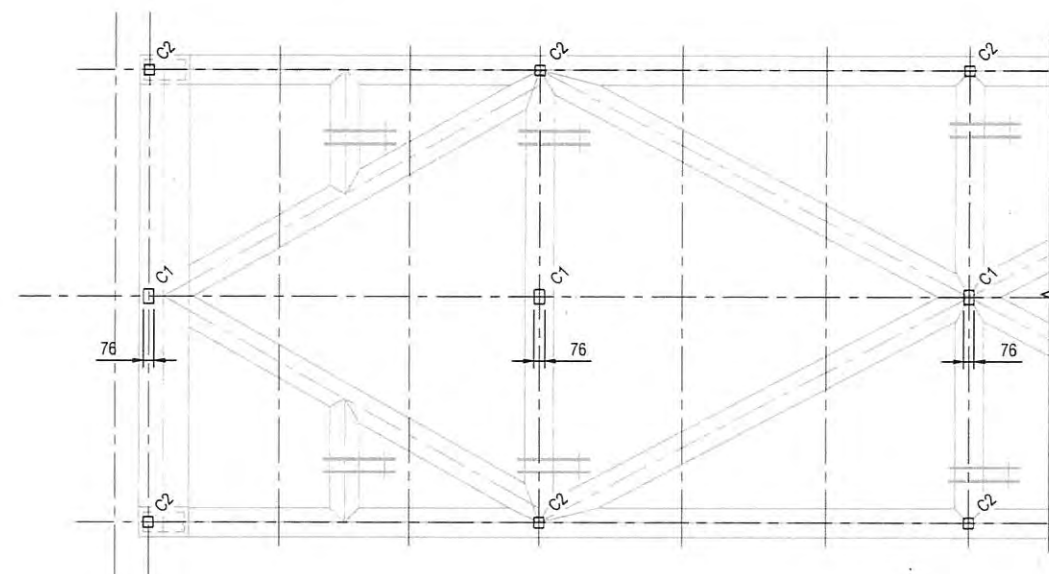
PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

19 SEP 2014

MEDQ

250 0 500 1000mm
SCALE 1:25

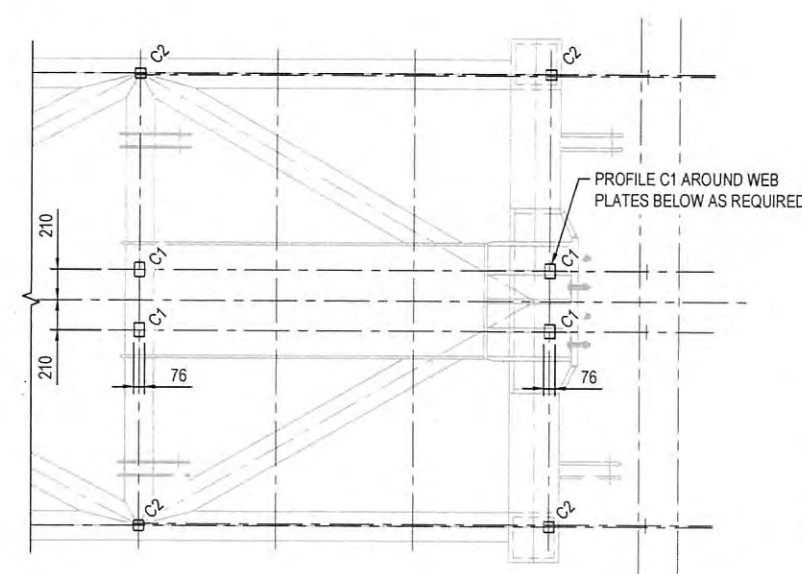
RPEQ	
SIGNATURE	<i>[Signature]</i>
DATE	02/04/14
NAME	RICHARD WOOLLARD
RPEQ No	13790



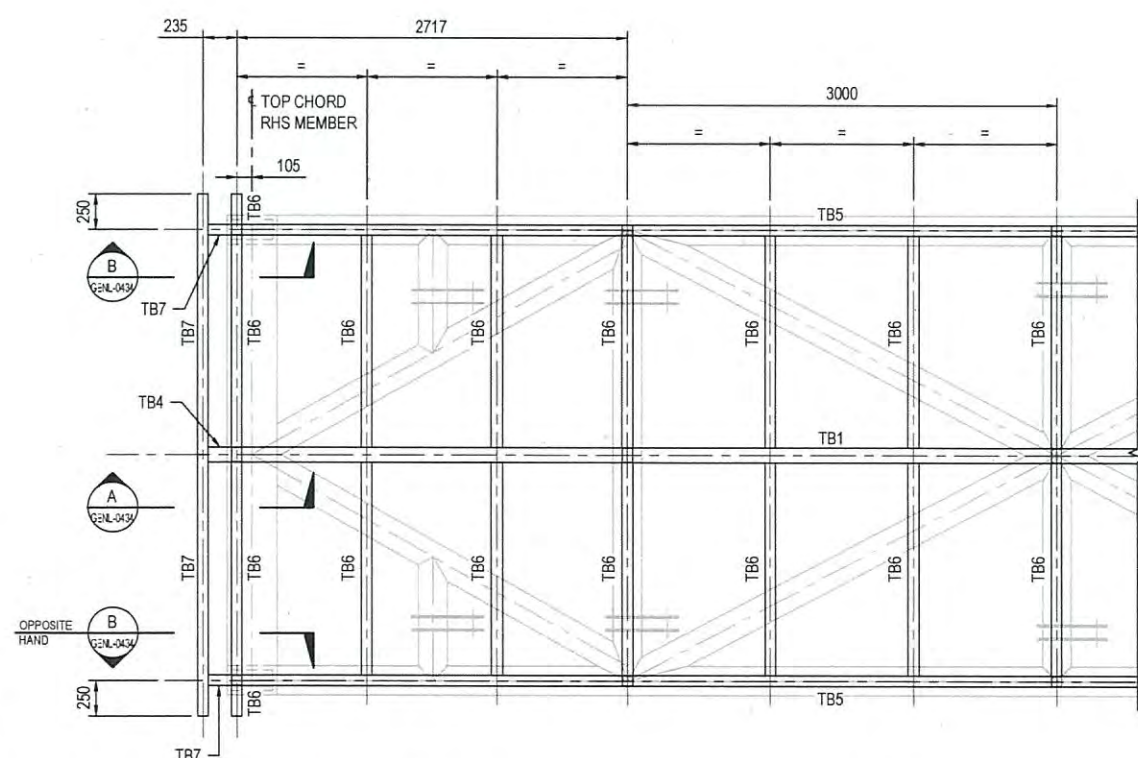
PONTOON END BAY

TYPICAL BAY

PLAN ON GANGWAY TOP CHORD LEVEL SHOWING ROOF STUB COLUMN ARRANGEMENT



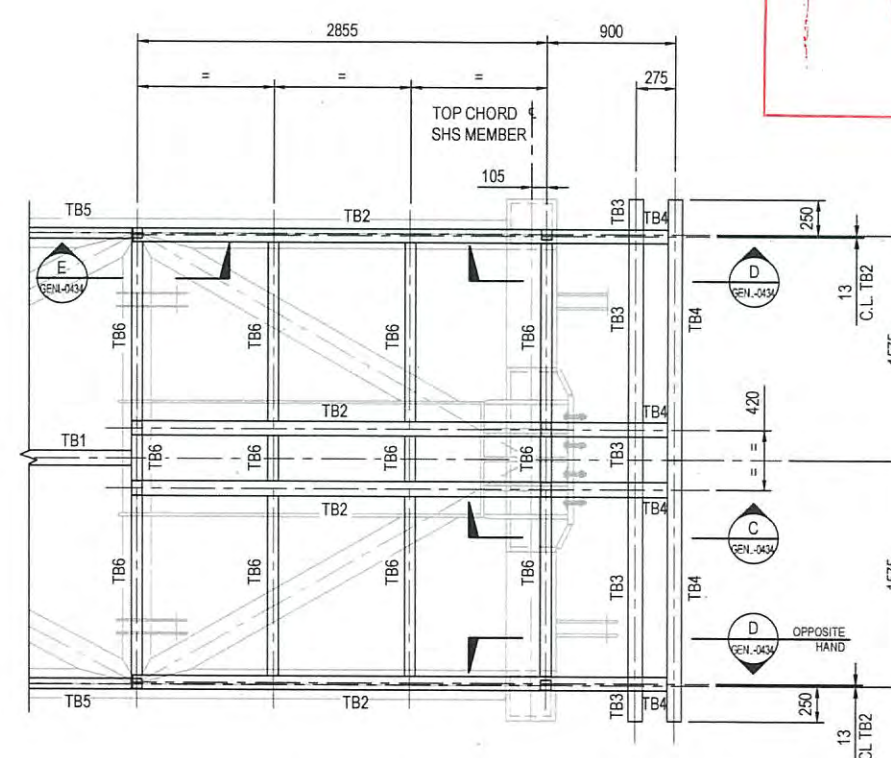
ABUTMENT END BAY



PONTOON END BAY

TYPICAL BAY

PLAN ON GANGWAY ROOF FRAMING MEMBERS



ABUTMENT END BAY

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SUB-CONSULTANT

CLIENT



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REV	DATE	REVISION DETAILS	APPROVED
1	02.04.14	ISSUED FOR CONSTRUCTION	A.NILSEN

SCALE	1:25
SIZE	A1

DRAWN	D.MULLER
DESIGNED	M.LAMBKIN
VERIFIED	R.WOOLLARD

FOR CONSTRUCTION	APPROVED
PROJECT DIRECTOR	DATE 02.04.14
A.NILSEN	

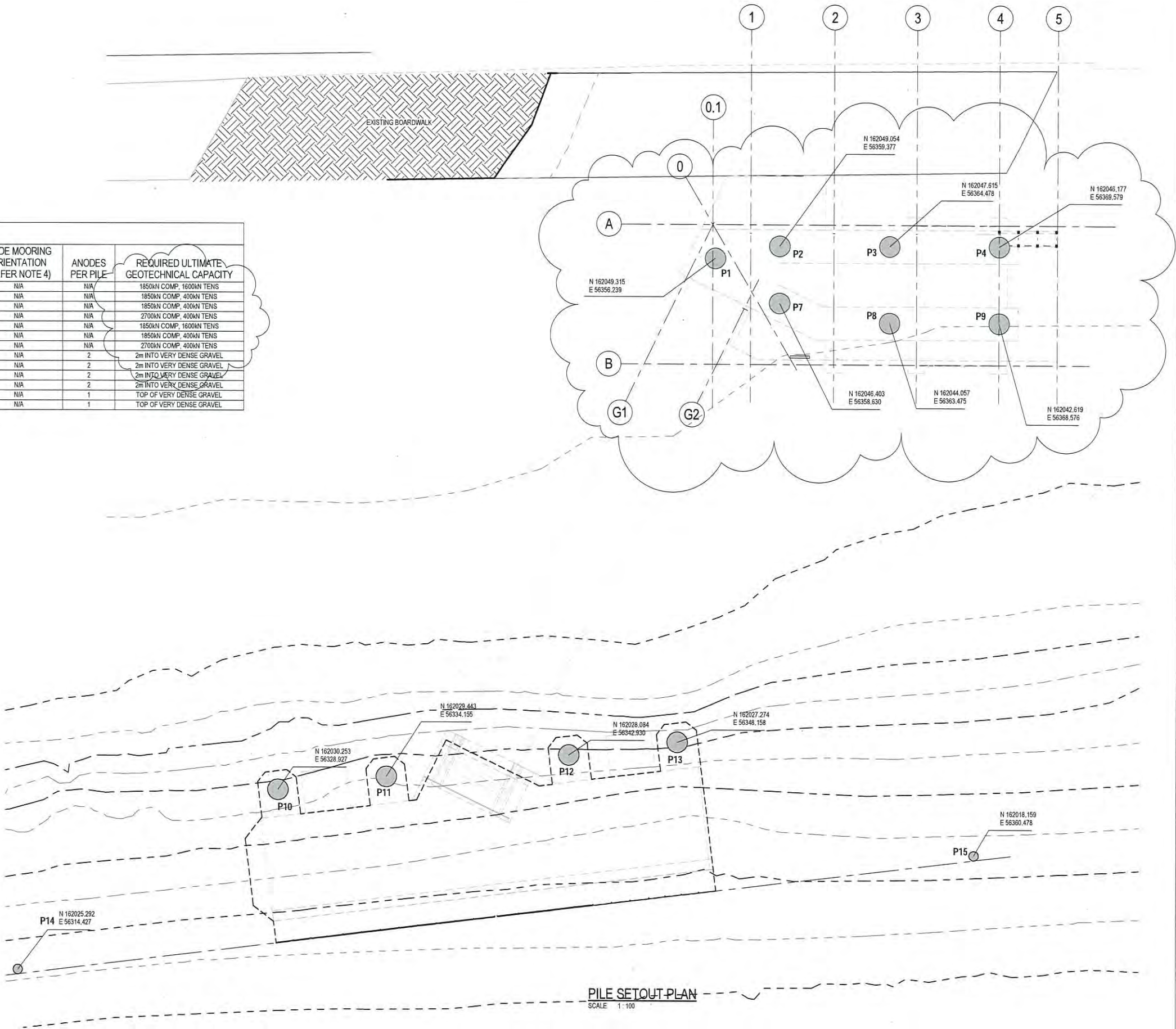
PROJECT	BRETT'S WHARF, BULIMBA AND HAWTHORNE FERRY TERMINAL GANGWAYS - BRISBANE RIVER
TITLE	HAWTHORNE AND BRETT'S WHARF TERMINALS GANGWAY EXTERNAL STRUCTURE ROOF FRAMING PLAN
DRAWING No.	237847
PROJECT No.	13790
WBS	HABT
TYPE	DRG
DISC	LS
NUMBER	0431
REV	1

NOTES

- 1. FOR MARINE NOTES REFER DRG. 41-27289-01-M001
- 2. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD). ALL COORDINATES ARE TO BCSG.
- 3. ALL PILES SHALL BE GRADE 350 STEEL AND PAINTED TO 1m BELOW BED LEVEL IN ACCORDANCE WITH SPECIFICATION
- 4. ALL PILE ORIENTATIONS SHALL BE BASED ON CLOCKWISE ROTATION FROM THE NORTH POINT.
- 5. ALL PILES SHALL BE VERTICAL.
- 6. REQUIRED ULTIMATE GEOTECHNICAL CAPACITIES HAVE BEEN CALCULATED USING $\phi_g = 0.7$ COMP, 0.5 TENS

PILE SCHEDULE										
PILE No.	PILE TYPE	PILE DIAMETER (mm)	WALL THICKNESS (mm)	CUT-OFF LEVEL (m)	EST. TOE LEVEL (m)	EST. BED LEVEL (m)	FENDER ORIENTATION (REFER NOTE 4)	SLIDE MOORING ORIENTATION (REFER NOTE 4)	ANODES PER PILE	REQUIRED ULTIMATE GEOTECHNICAL CAPACITY
P1	TYPE A	1000	20.0	0.775	-15.000	-0.9	N/A	N/A	N/A	1850kN COMP, 1600kN TENS
P2	TYPE A	1000	20.0	0.775	-15.000	-0.9	N/A	N/A	N/A	1850kN COMP, 400kN TENS
P3	TYPE A	1000	20.0	0.775	-15.000	-0.9	N/A	N/A	N/A	1850kN COMP, 400kN TENS
P4	TYPE A	1000	20.0	0.775	-15.000	-0.9	N/A	N/A	N/A	2700kN COMP, 400kN TENS
P7	TYPE A	1000	20.0	0.775	-15.000	-0.9	N/A	N/A	N/A	1850kN COMP, 1600kN TENS
P8	TYPE A	1000	20.0	0.775	-15.000	-0.9	N/A	N/A	N/A	1850kN COMP, 400kN TENS
P9	TYPE A	1000	20.0	0.775	-15.000	-0.9	N/A	N/A	N/A	2700kN COMP, 400kN TENS
P10	TYPE B	1000	20.0	6.000	-15.000	-3.2	N/A	N/A	2	2m INTO VERY DENSE GRAVEL
P11	TYPE B	1000	20.0	6.000	-15.000	-3.3	N/A	N/A	2	2m INTO VERY DENSE GRAVEL
P12	TYPE B	1000	20.0	6.000	-15.000	-3.5	N/A	N/A	2	2m INTO VERY DENSE GRAVEL
P13	TYPE B	1000	20.0	6.000	-15.000	-3.2	N/A	N/A	2	2m INTO VERY DENSE GRAVEL
P14	TYPE C	457	12.7	4.000	-13.000	-4.9	180	N/A	1	TOP OF VERY DENSE GRAVEL
P15	TYPE C	457	12.7	4.000	-13.000	-5.2	180	N/A	1	TOP OF VERY DENSE GRAVEL

* P5 & P6 REMOVED FROM DESIGN



PLANS AND DOCUMENTS referred to in the PDA APPROVAL

19 SEP 2014

MEDQ

0	ISSUED FOR CONSTRUCTION	CEH	ME*	POK*	14.03.14	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date

Plot Date: 10/05/2014 8:52:23 AM

Cad File No: C:\Users\chughes2\Documents\41-27289-Bretts Wharf_Site_Model_chughes2.rvt

0 1000 2000 3000 4000 5000mm
SCALE 1:100 AT ORIGINAL SIZE



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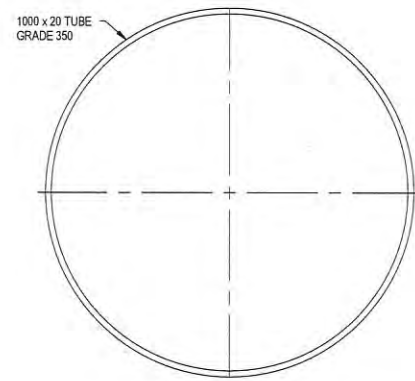
Drawn	C. HUGHES	Designed	M. EAST
Drafting Check	N. WATTS*	Design Check	B. GILES*
Approved	P. O'KEEFE		B. GILES*
Date	14.03.14		RPEQ 10749
Scale	As indicated		This Drawing must not be used for Construction unless signed as Approved

Client **BRISBANE CITY COUNCIL**
Project **BRETTS WHARF CityCat TERMINAL**

PILE SETOUT PLAN & SCHEDULE

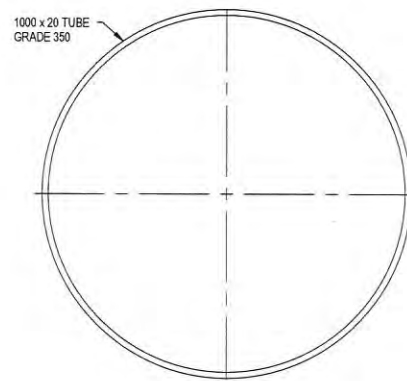
Original Size **A1** Drawing No: **41-27289-03-M100**

Rev: 0



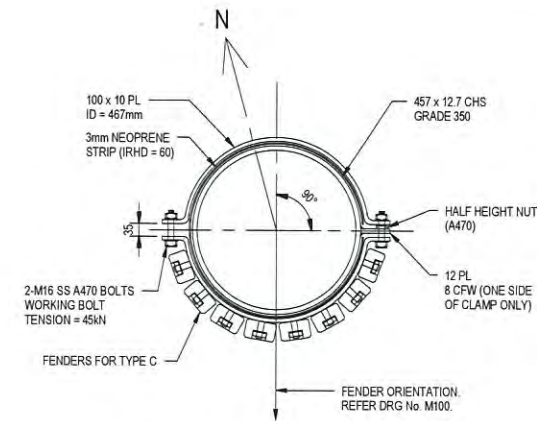
TYPICAL PILE DETAIL TYPE A

SCALE 1:10



TYPICAL PILE DETAIL TYPE B

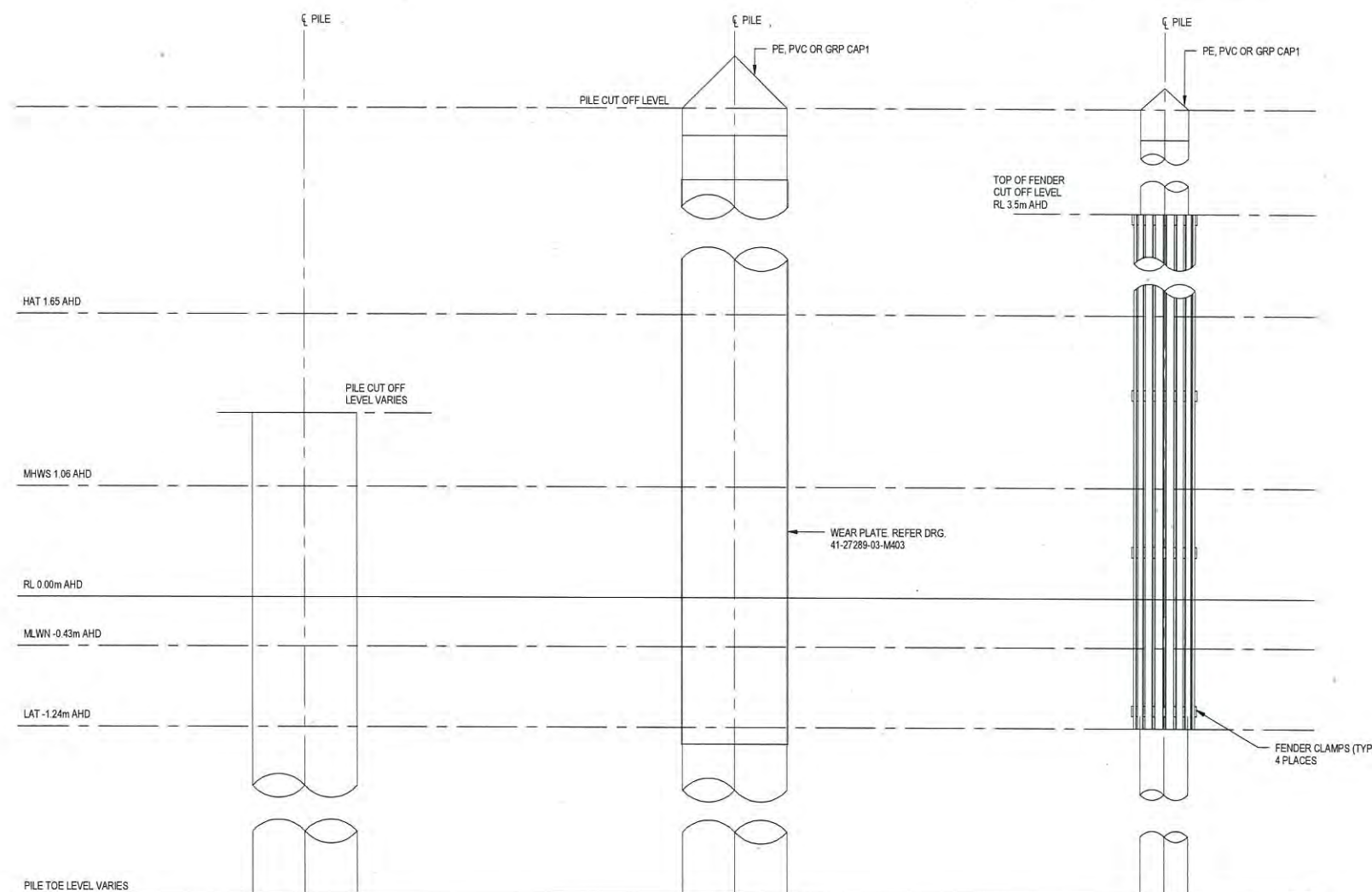
SCALE 1:10



TYPICAL PILE DETAIL TYPE C

SCALE 1:10

NOTES:
1. REFER TO SCHEDULE FOR FENDERS' ORIENTATION



NOTES TYPE A

- FOR MARINE NOTES REFER DRG. 41-27289-03-M001
- ALL PILES SHALL BE PAINTED AS PER THE SPECIFICATION DOWN TO 1m BELOW BED LEVEL.
- ALL PILES SHALL HAVE ALUMINIUM ANODES UNO. REFER TO PILE SCHEDULE, DRG. 41-27289-03-M100 & M103 (DETAILS) SPECIFICATION.
- ALL BOLTS SHALL BE S.S. 316 CLASS A470 IN ACCORDANCE WITH AS 4673.
- PILES P1-P9 SHALL BE MADE ELECTRICALLY CONTINUOUS BY WELDING REINFORCEMENT AS SHOWN ON DRG. 41-27289-03-M103.

TYPE B

TYPE C

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

19 SEP 2014

MEDQ

0	ISSUED FOR CONSTRUCTION		CEH	MAE*	POK*	14.03.14
No.	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date

0 100 200 300 400 500 mm
SCALE 1:10 AT ORIGINAL SIZE


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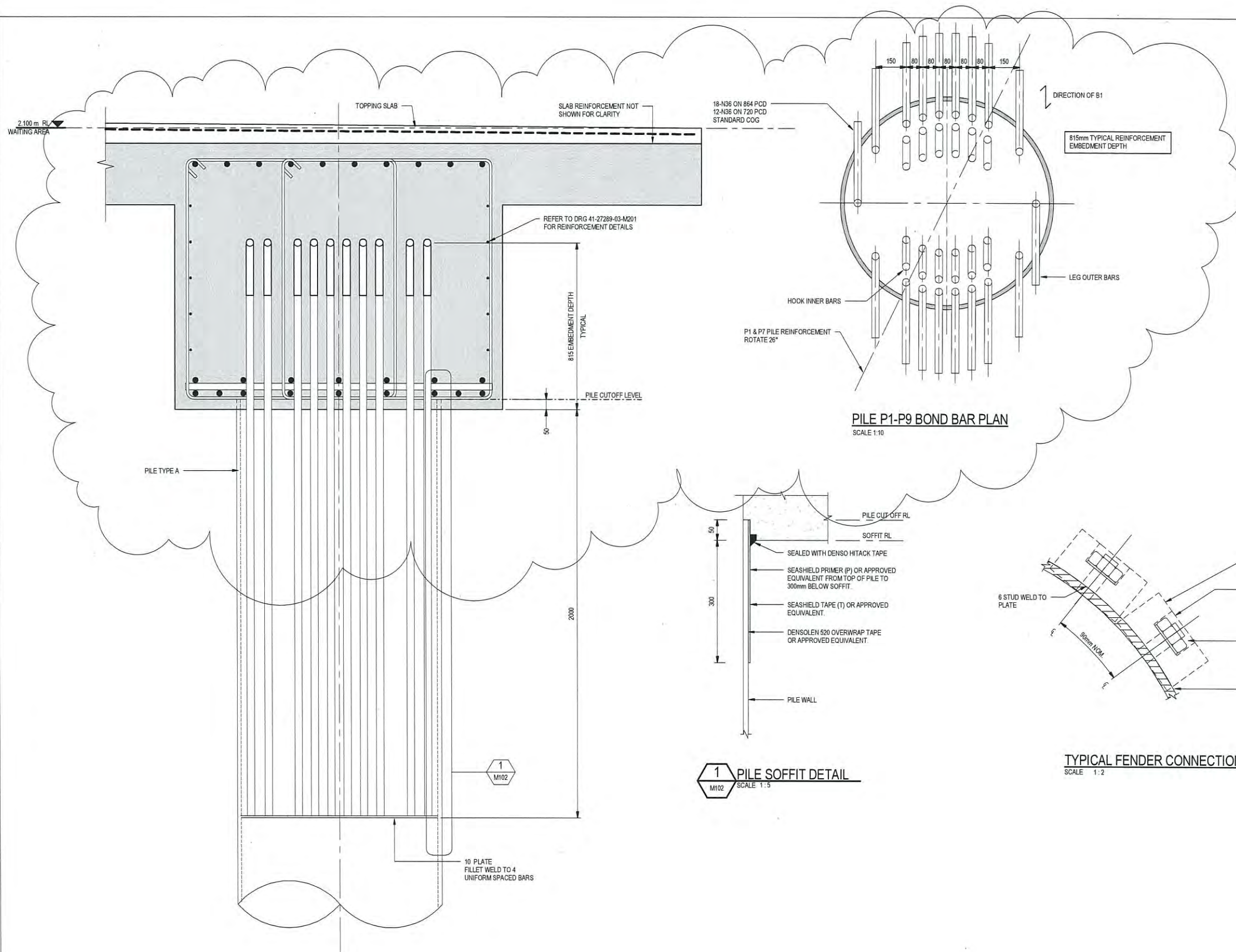
Drawn	T. HAGENSON	Designed	A. PIETROBON
Drafting Check	M. MOHR*	Design Check	B. GILES*
Approved	P. O'KEEFE		R. WALLIS*
Date	14.03.14		RPEQ No. 949
Scale	As indicated		This Drawing must not be used for Construction unless signed as Approved

Client **BRISBANE CITY COUNCIL**
Project **BRETTS WHARF CityCat TERMINAL**

Title **PILE ELEVATIONS**

Original Size **A1** Drawing No: **41-27289-03-M101**

Rev: 0



PILE P1-P9 BOND BAR PLAN
SCALE 1:10

PILE P1-P4 & P6-P9 BOND BAR ELEVATION
SCALE 1:10

1 PILE SOFFIT DETAIL
SCALE 1:5

TYPICAL FENDER CONNECTION DETAIL
SCALE 1:2

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

19 SEP 2014

MEDQ

NOTES

- FOR MARINE NOTES REFER DRG. 41-27289-03-M001
- ALL PILES SHALL BE PAINTED AS PER THE SPECIFICATION DOWN TO 1m BELOW BED LEVEL.
- ALL PILES SHALL HAVE ALUMINIUM ANODES UNO. REFER TO PILE SCHEDULE, DRG. 41-27289-03-M100 & M103 (DETAILS) SPECIFICATION.
- ALL BOLTS SHALL BE S S 316 CLASS A470 IN ACCORDANCE WITH AS 4673.
- PILES P1-P9 SHALL BE MADE ELECTRICALLY CONTINUOUS BY WELDING REINFORCEMENT AS SHOWN ON DRG. 41-27289-03-M103.

0	ISSUED FOR CONSTRUCTION		CEH	MAE*	POK*	14.03.14
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date

0 100 200 300 400 500 mm
SCALE 1:10 AT ORIGINAL SIZE

0 50 100 150 200 250 mm
SCALE 1:5 AT ORIGINAL SIZE

0 20 40 60 80 100 mm
SCALE 1:2 AT ORIGINAL SIZE



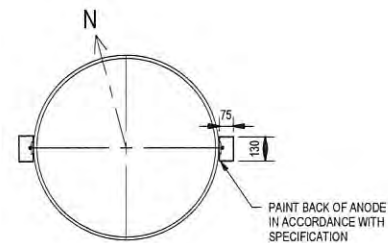
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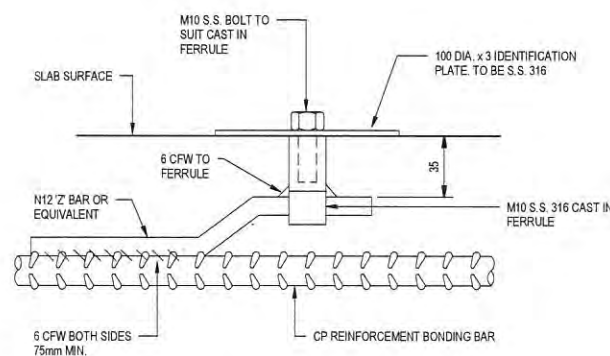
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Drafting Check	N. WATTS*	Design Check	B. GILES*
Approved	P. O'KEEFE		B. GILES
Date	14.03.14	RPEQ No.	10749
Scale	As indicated	This Drawing must not be used for Construction unless signed as Approved	

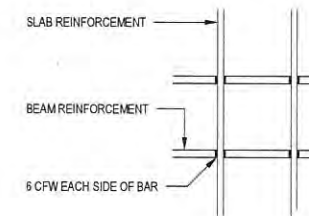
Client	BRISBANE CITY COUNCIL
Project	BRETT'S WHARF CityCat TERMINAL
Title	PILE DETAILS
Original Size	A1
Drawing No.	41-27289-03-M102
Rev.	0



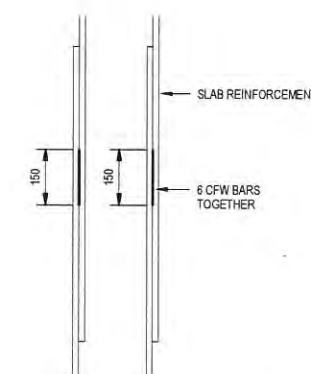
TYPICAL PILE PLAN



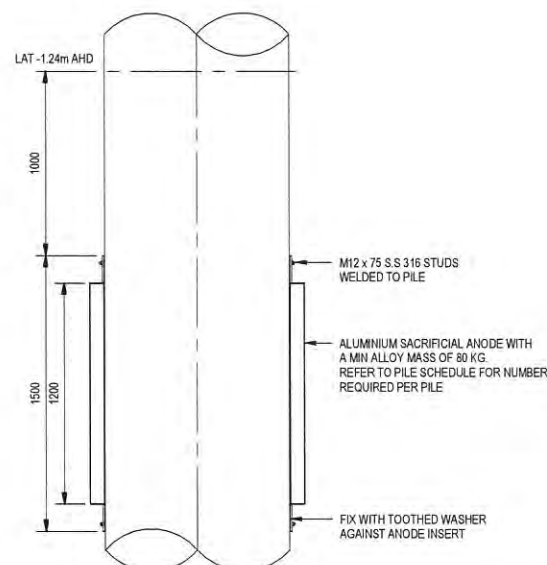
CP TEST POINT DETAIL
SCALE 1:2



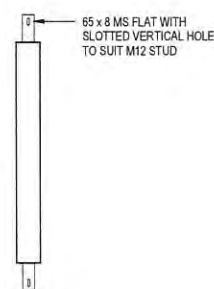
CROSS CONNECTION
SCALE 1:10



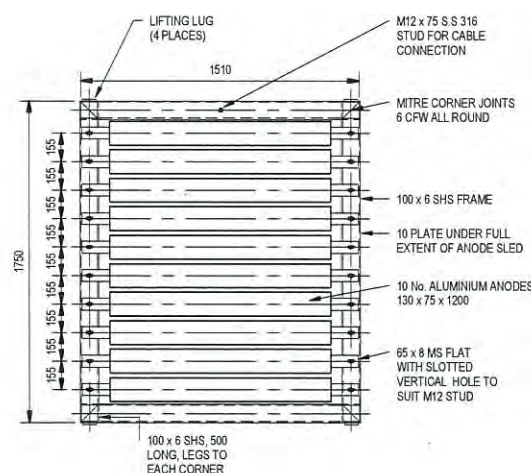
BAR LAP CONNECTION
SCALE 1:10



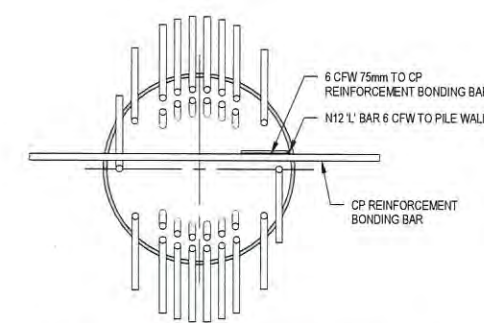
TYPICAL PILE ELEVATION



TYPICAL ANODE ELEVATION



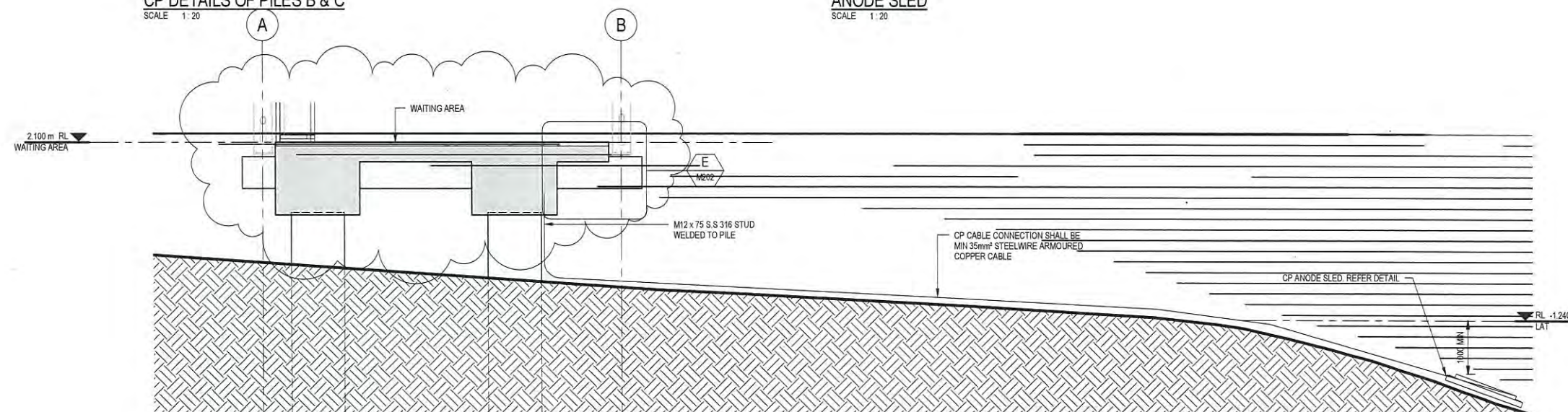
ANODE SLED
SCALE 1:20



PILE TO BONDING BAR CONNECTION
SCALE 1:20

NOTES MOUNTING FACE OF ANODE TO BE PAINTED AS PER THE PILE PAINTING SPECIFICATION

CP DETAILS OF PILES B & C
SCALE 1:20



ANODE SLED LOCATION
SCALE 1:50

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

19 SEP 2014

MEDQ

NOTES

- REFER TO DRG. 41-27289-03-M001 FOR MARINE NOTES
- REFER TO DRG. 41-27289-03-M100 FOR REQUIRED No. OF ANODES PER PILE
- APPLY PROTECTIVE COATING TO THE BACK OF THE ANODE IN ACCORDANCE WITH THE SPECIFICATION
- ALL PILES SUPPORTING THE CONCRETE WAITING AREA AND FIXED WALKWAY SHALL BE MADE ELECTRICALLY CONTINUOUS BY WELDING.
- CONNECT CP CABLE TO STUDS VIA SUITABLY SIZED CRIMP LUG. FULLY ENCAPSULATE CONNECTIONS AFTER TERMINATING.

0	ISSUED FOR CONSTRUCTION		CEH	MAE*	POK*	14.03.14
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



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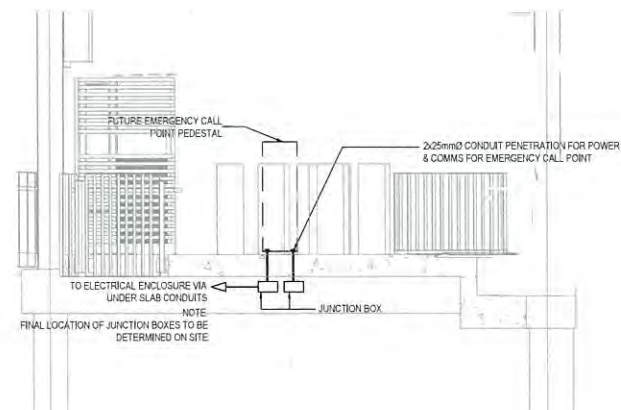
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Drawn	T. HAGENSON	Designed	A. PIETROBON
Drafting Check	M. MOHR*	Design Check	B. GILES*
Approved	P. O'KEEFE		R. WALLIS*
Date	14.03.14		RPEQ No. 949
Scale	As indicated		This Drawing must not be used for Construction unless signed as Approved

Client	BRISBANE CITY COUNCIL
Project	BRETT'S WHARF CityCat TERMINAL
Title	PILE CATHODIC PROTECTION DETAILS
Original Size	A1
Drawing No:	41-27289-03-M103
Rev:	0

	SINGLE 10A, 250V, SWITCHED SOCKET OUTLET, DOUBLE MODULE, & FLAT PINS, IP66 MOUNT 300mm AFFL
	DISTRIBUTION BOARD
	POWER CIRCUIT TAG
	COMMUNICATIONS CONDUIT, 1x250 FOR FUTURE SPEAKERS, 1x320 FOR FUTURE CCTV CAMERAS
	ELECTRICAL CONDUIT, 1x500 UNLESS OTHERWISE SHOWN
	SLAB PENETRATION FOR 2x25mm Ø CONDUITS
	600mm WIDE CABLE TRAY BELOW FLOOR LEVEL, REFER TO MARINE DRAWINGS FOR DETAILS

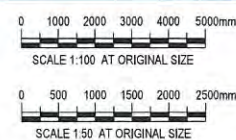
JB	☐	(294mmx294mmx180mm) IP67 ENCLOSURE COMPLETE WITH ACCESSORIES MOUNTED ON UNDERSIDE OF SLAB
JBX	☐	(101mmx101mmx91mm) IP67 JUNCTION BOX COMPLETE WITH ACCESSORIES MOUNTED ON UNDERSIDE OF SLAB

[illegible]

MEDQ

SCALE 1 : 100

1	REVISIONS AS CLOUDED		CH	MAE*	POK* ¹ 06.05.14
0	FOR CONSTRUCTION		JAW	MAE*	POK* ² 14.03.14
No.	Revision	Note : * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director Date



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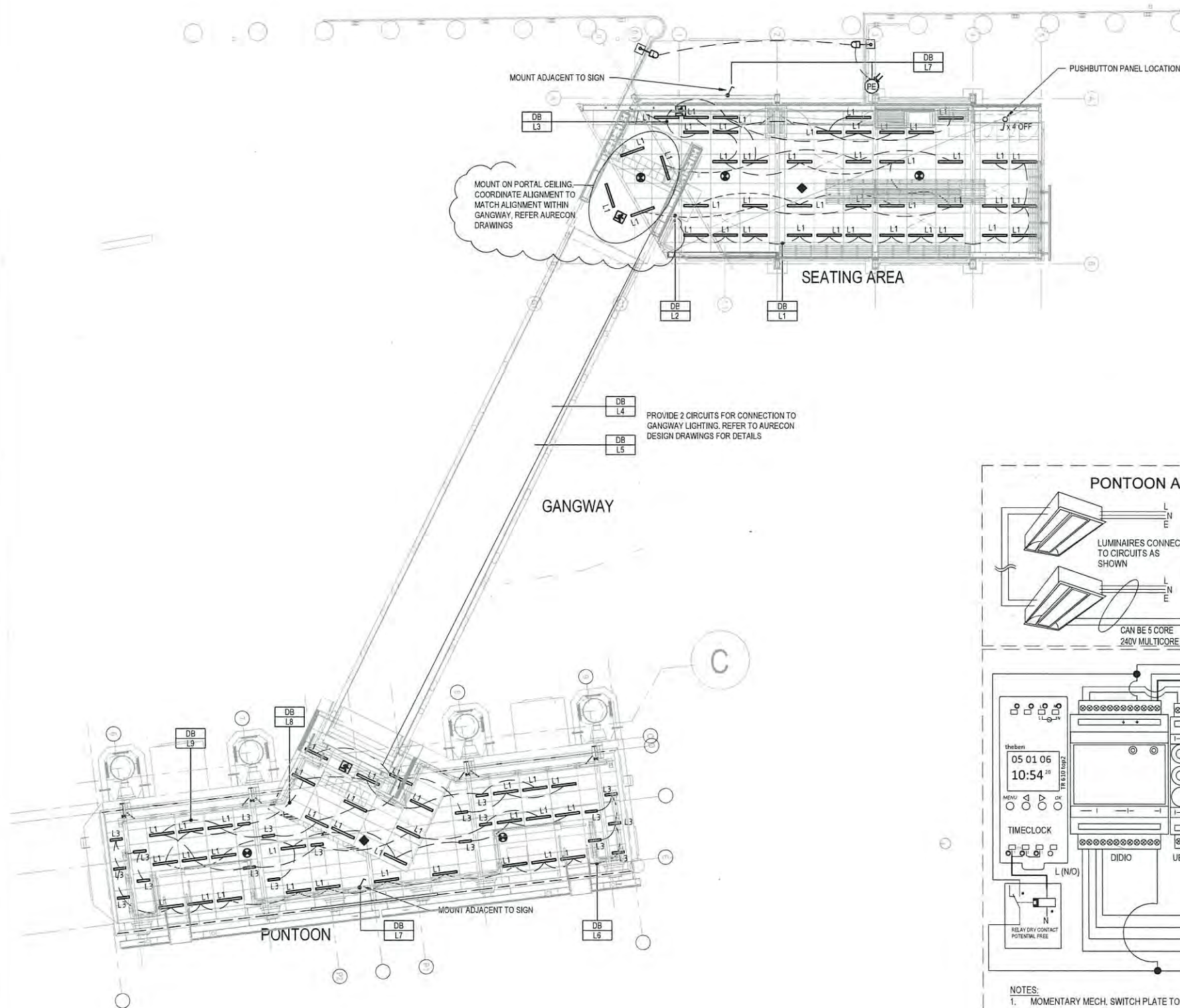
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Drawn	G.L/C. HICKLING	Designer	L.ALIX/J.WOLSKI
Drafting Check	*J.WOLSKI	Design Check	*P.PILLAI
Approved (Project Director)	*P. O'KEEFE	*P.KNIGHT	
Date	14.03.14	RPEQ No. 4123	
Scale	1:100@A1	This Drawing must not be used for Construction unless signed as Approved	

Client	BRISBANE CITY COUNCIL
Project	BRETT'S WHARF CityCat TERMINAL
Title	ELECTRICAL SERVICES POWER & COMMUNICATIONS LAYOUT

Original Size **A1** Drawing No: **41-27289-03-E001**

Lev: 1



PROPOSED LAYOUT
SCALE 1:100

LEGEND

- L1 MEGABAY MLE-VXT10-V-C4-U VIENTO, IP66 20W/M LED LUMINAIRE RECESSED MOUNT
- L3 MEGABAY MLE-VXT5-V-C4-U VIENTO, IP66 12W/M LED LUMINAIRE RECESSED MOUNT
- BEGA 7982 COMPLETE WITH 5.5m POLE, BASE MOUNTED ON STRUCTURAL BRACKET AS DETAILED ON ARCHITECTURAL DRAWING, 70W METAL HALIDE, POWDER COATED FINISH, COLOUR TO BE ADVISED BY THE ARCHITECT.
- DB L1 LIGHT SWITCH, WALL MOUNTED
- DB L2 LIGHTING CIRCUIT TAG
- DB L3 LIGHTING SWITCH WIRING
- DB L4 LIGHTING CIRCUIT WIRING
- LED EMERGENCY EXIT LUMINAIRE, SURFACE MOUNTED, SINGLE SIDED PICTORIAL DIFFUSER, IP65, VANDAL RESISTANT
- LED EMERGENCY LUMINAIRE, SURFACE MOUNTED, IP65, VANDAL RESISTANT, CO. C90 = D20
- DAYLIGHT HARVESTING DEVICE

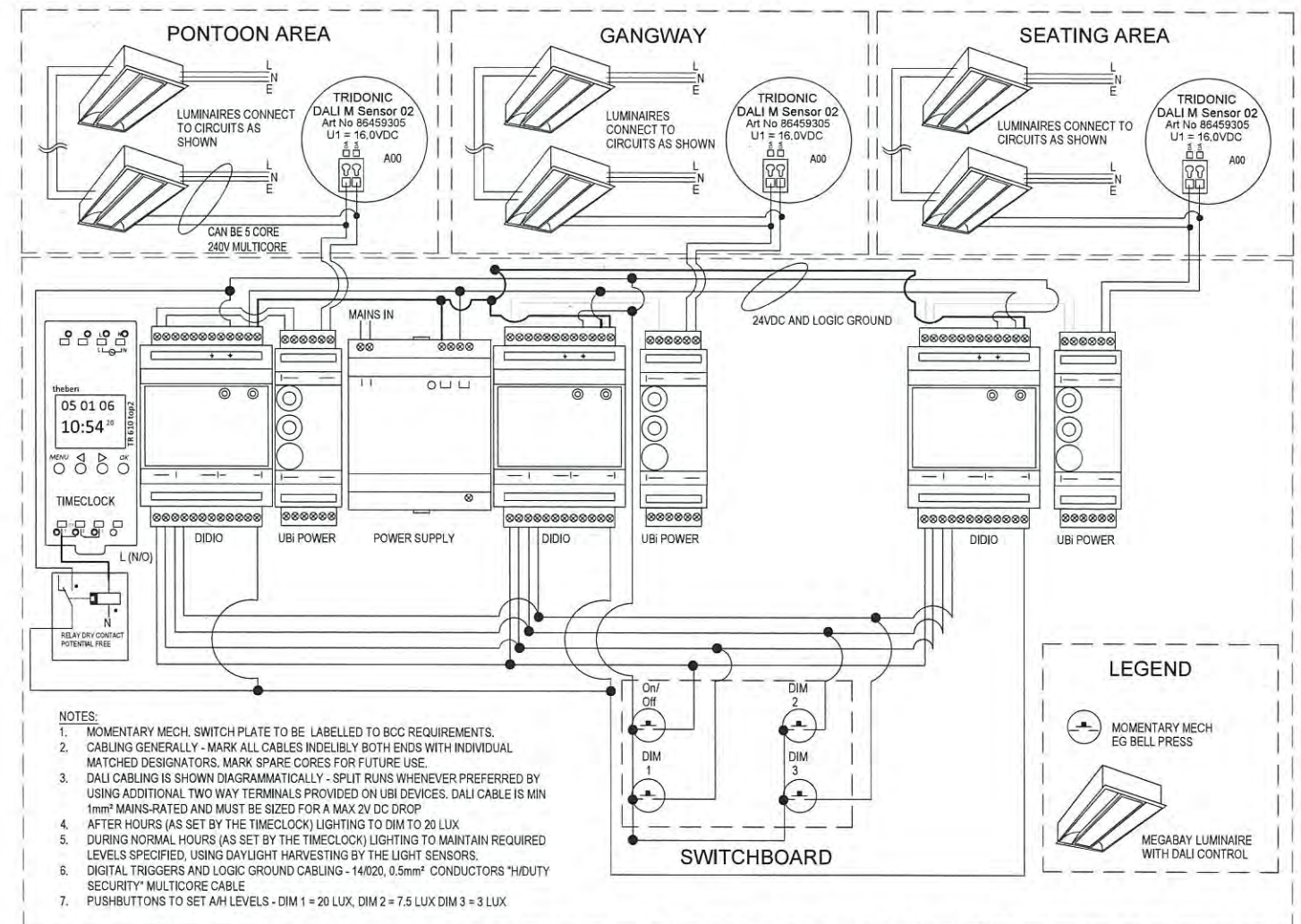
NOTES

- A. SEPARATE ALL DISSIMILAR METALS FROM EACH OTHER BY INSERTING DURABLE ELECTRICALLY INSULATING MATERIAL AT EVERY CONTACT POINT. SEPARATION METHODS MAY INCLUDE WASHERS AND SLEEVES ON BOLTS, INSERTS BETWEEN MATING SURFACES AND OTHER METHODS AS APPROVED.
- B. IN ADDITION, PREVENT CONTACT OF ALUMINUM WITH ANY CONCRETE, CEMENT, GROUT OR OTHERWISE ALKALINE SURFACES.

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

19 SEP 2014

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NOTES:

1. MOMENTARY MECH. SWITCH PLATE TO BE LABELLED TO BCC REQUIREMENTS.
2. CABLING GENERALLY - MARK ALL CABLES INDELIBLY BOTH ENDS WITH INDIVIDUAL MATCHED DESIGNATORS. MARK SPARE CORES FOR FUTURE USE.
3. DALI CABLING IS SHOWN DIAGRAMMATICALLY - SPLIT RUNS WHENEVER PREFERRED BY USING ADDITIONAL TWO WAY TERMINALS PROVIDED ON UBI DEVICES. DALI CABLE IS MIN 1mm² MAINS-RATED AND MUST BE SIZED FOR A MAX 2V DC DROP.
4. AFTER HOURS (AS SET BY THE TIMECLOCK) LIGHTING TO DIM TO 20 LUX
5. DURING NORMAL HOURS (AS SET BY THE TIMECLOCK) LIGHTING TO MAINTAIN REQUIRED LEVELS SPECIFIED, USING DAYLIGHT HARVESTING BY THE LIGHT SENSORS.
6. DIGITAL TRIGGERS AND LOGIC GROUND CABLING - 14/020, 0.5mm² CONDUCTORS *H/DUTY SECURITY* MULTICORE CABLE
7. PUSHBUTTONS TO SET AM LEVELS - DIM 1 = 20 LUX, DIM 2 = 7.5 LUX DIM 3 = 3 LUX

LIGHTING CONTROL SCHEMATIC

1	LIGHTING IN PORTAL ADJUSTED	CH	*MAE	*POK	06.05.14
0	FOR CONSTRUCTION	JAW	MAE*	POK*	14.03.14
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing			
		Drawn	Job Manager	Project Director	Date

0 1000 2000 3000 4000 5000mm
SCALE 1:100 AT ORIGINAL SIZE



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Drawn	G.L.C. HICKLING	Designer	L.A.L.I.X./J.WOLSKI	Client	BRISBANE CITY COUNCIL
Drafting Check	*J.WOLSKI	Design Check	*P.PILLAI	Project	BRETT'S WHARF CityCat TERMINAL
Approved	*P.O'KEEFE (Project Director)		*P.KNIGHT	Title	ELECTRICAL SERVICES LIGHTING LAYOUT
Date	14.03.14		RPEQ No. 4123	Original Size	A1
Scale	1:100@A1		This Drawing must not be used for Construction unless signed as Approved	Drawing No:	41-27289-03-E002

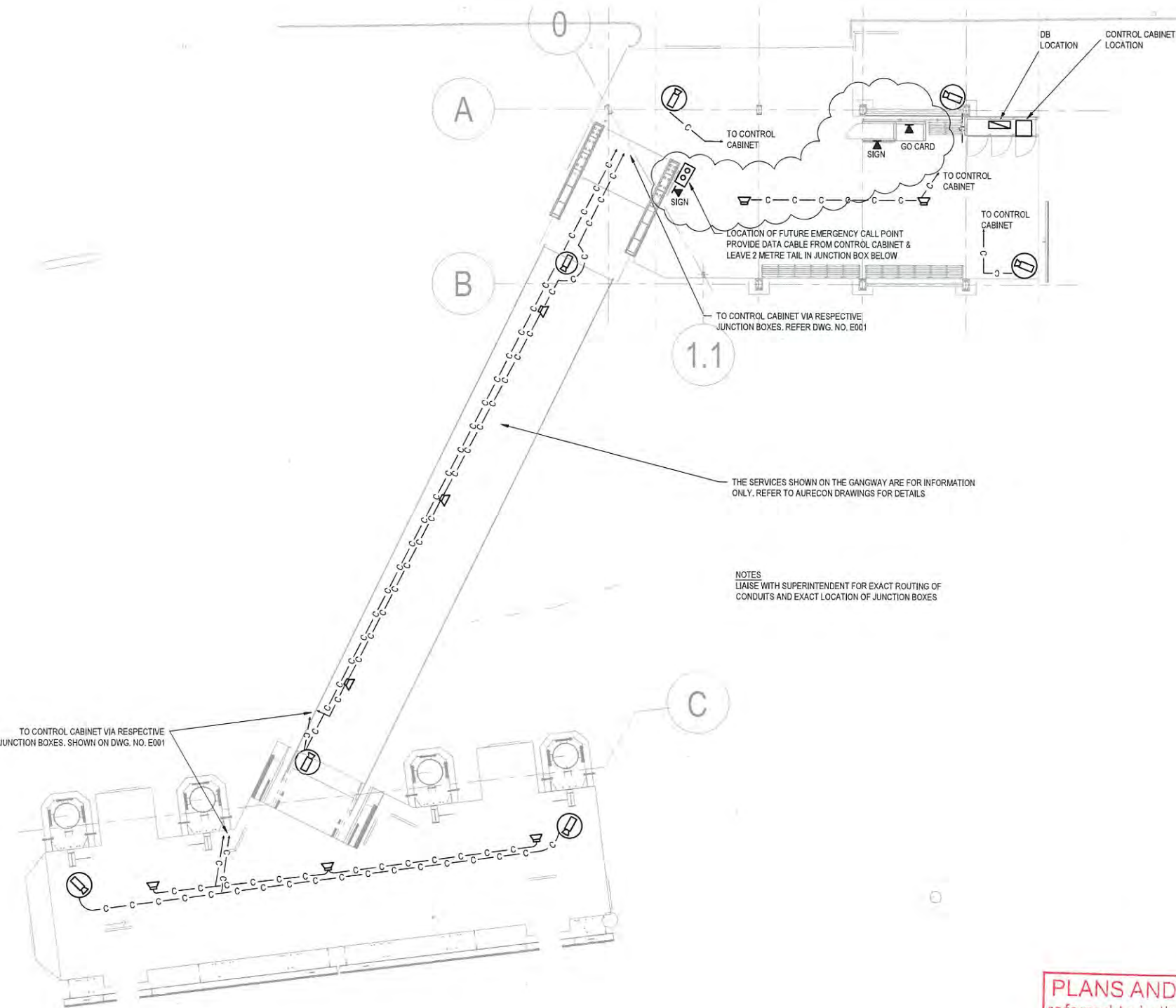
Rev: 1

LEGEND

- PROVIDE IP67 JUNCTION BOX (101mmX101mmX91mm) FOR FUTURE CEILING MOUNTED SPEAKER. CABLING BY OTHERS. CONTRACTOR TO PROVIDE COMPLETE CONDUIT ROUGHING-INS AS SHOWN
- PROVIDE CEILING MOUNTED JUNCTION BOX FOR FUTURE CCTV CAMERA. IP67 (101mmX101mmX91mm) CABLING BY OTHERS. CONTRACTOR TO PROVIDE COMPLETE CONDUIT ROUGHING-INS AS SHOWN
- DOUBLE DATA OUTLET RJ45 COMPLETE WITH CAT 6 DATA CABLE (PROVIDE EXTRA SLACK) TO CONTROL CABINET IN ELECTRICAL ENCLOSURE AS SHOWN. 300mm AFFL
- SLAB PENETRATION FOR 2x25mmØ CONDUITS
- COMMUNICATIONS CONDUIT 1x25mmØ FOR FUTURE SPEAKERS, 1x32mmØ FOR FUTURE CAMERAS

NOTES

- A. SEPARATE ALL DISSIMILAR METALS FROM EACH OTHER BY INSERTING DURABLE ELECTRICALLY INSULATING MATERIAL AT EVERY CONTACT POINT. SEPARATION METHODS MAY INCLUDE WASHERS AND SLEEVES ON BOLTS, INSERTS BETWEEN MATING SURFACES AND OTHER METHODS AS APPROVED.
- B. IN ADDITION, PREVENT CONTACT OF ALUMINUM WITH ANY CONCRETE, CEMENT, GROUT OR OTHERWISE ALKALINE SURFACES.



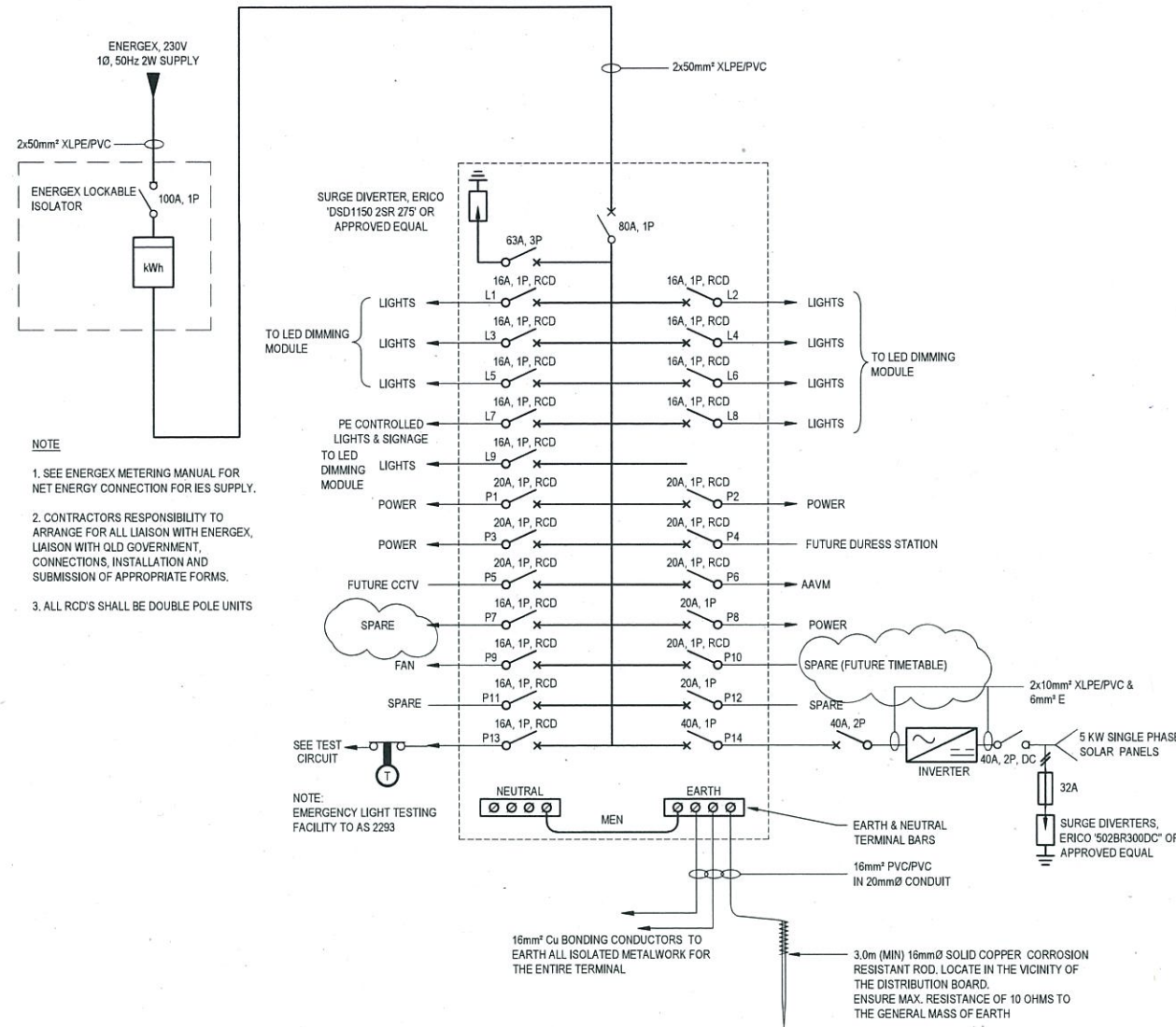
CCTV, FIRE & COMMUNICATION SYSTEM LAYOUT

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

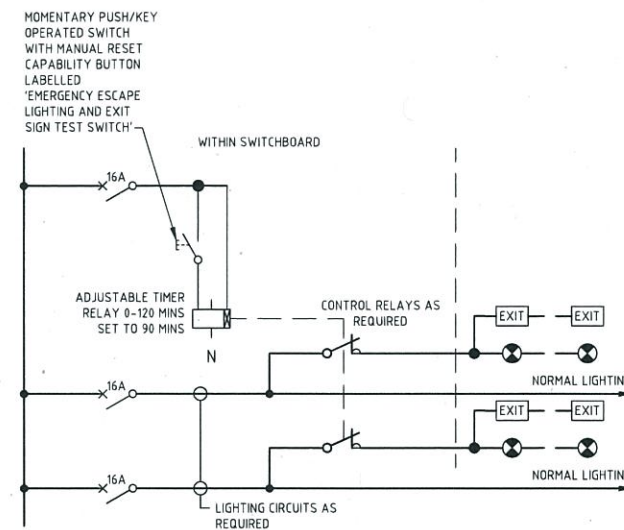
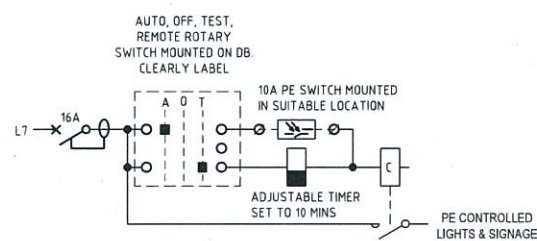
19 SEP 2014

MEDQ

					0 1000 2000 3000 4000 5000mm SCALE 1:100 AT ORIGINAL SIZE				 Dedicated to a better Brisbane		 145 Ann St Brisbane QLD 4000 Australia GPO Box 668 Brisbane QLD 4001 T 61 7 3316 3000 F 61 7 3316 3333 E bne@mail@ghd.com W www.ghd.com		DO NOT SCALE Conditions of Use. This document may only be used by GHD's client (and any other person who GHD has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose.		Drawn T.B.C. HICKLING Designer L.ALIX/J.WOLSKI		Client Project Title	BRISBANE CITY COUNCIL BRETT'S WHARF CityCat TERMINAL ELECTRICAL SERVICES CCTV & COMMUNICATION SYSTEM LAYOUT	
1	ADJUSTED FOR SIGNS RELOCATION	CH	MAE*	POK*	06.05.14								Drafting Check J.WOLSKI Design Check P.PILLAI Approved P.O'KEEFE (Project Director) P.KNIGHT Date 14.03.14 RPEQ No. 4123	This Drawing must not be used for Construction unless signed as Approved					
0	FOR CONSTRUCTION ISSUE	JAW	MAE*	POK*	14.03.14									Scale AS SHOWN			Original Size A1	Drawing No: 41-27289-03-E003	Rev: 1
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing			Drawn	Job Manager	Project Director	Date											



SWITCHBOARD & METERING SCHEMATIC



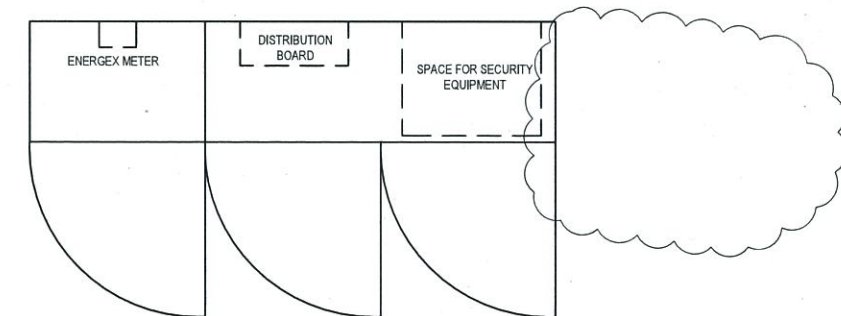
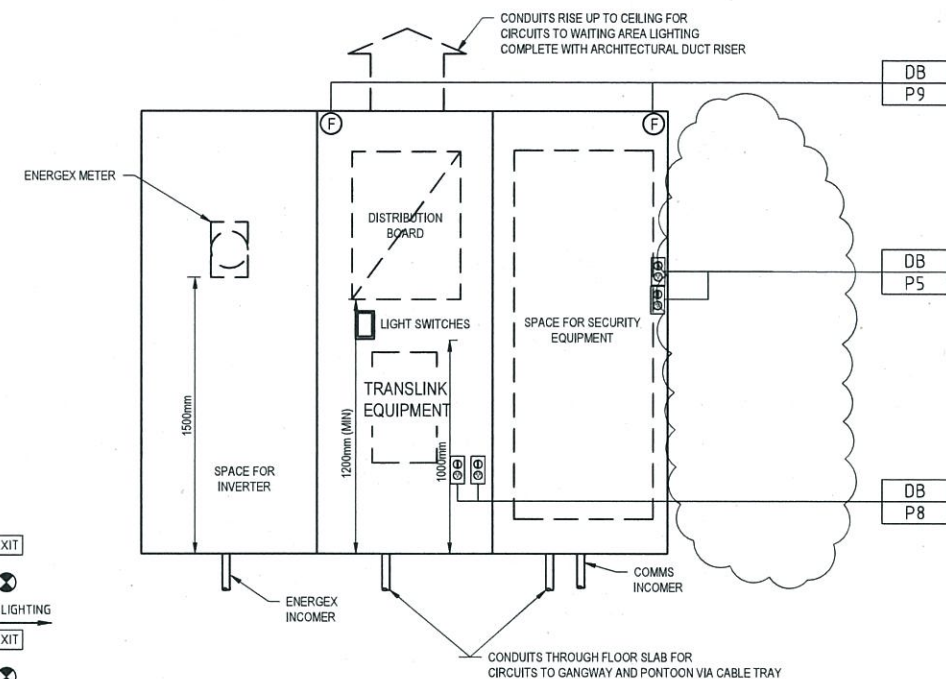
LIGHTING CONTROL SCHEMATIC

REFER TO DRAWINGS 41-22279-03-E002 FOR DETAILS

LEGEND

10a SSO, 3 FLAT PINS IP66

VENTILATION FAN, MOUNT IN TOP OF ENCLOSURE WITH ISOLATOR ADJACENT, 100 US. STATIC PRESSURE 23 Pa. FANS DIRECT 'DCF220-4E'. SUPPLIED BY PACIFIC HVAC OR APPROVED EQUAL. PROVIDE A TEMPERATURE SENSOR TO CONTROL THE FANS. ON AT 34°C - OFF AT 30°C. MOUNT WITHIN THE CUPBOARD AT 1200 AFL.



NOTES

- SEPARATE ALL DISSIMILAR METALS FROM EACH OTHER BY INSERTING DURABLE ELECTRICALLY INSULATING MATERIAL AT EVERY CONTACT POINT. SEPARATION METHODS MAY INCLUDE WASHERS AND SLEEVES ON BOLTS, INSERTS BETWEEN MATING SURFACES AND OTHER METHODS AS APPROVED.
- IN ADDITION, PREVENT CONTACT OF ALUMINIUM WITH ANY CONCRETE, CEMENT, GROUT OR OTHERWISE ALKALINE SURFACES.

PLANS AND DOCUMENTS referred to in the PDA APPROVAL

19 SEP 2014

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1	ADJUSTED FOR PUMP REMOVAL		CH	*MAE	*POK	06.05.14
0	ISSUE FOR CONSTRUCTION		JAW	*ME	*POK	14.03.14
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

Plot Date: 6 May 2014 - 1:00 PM

Plotted by: Clay Hickling

Cad File No: G:\41\27289\CADD\Drawings\41-27289-03-E004.dwg



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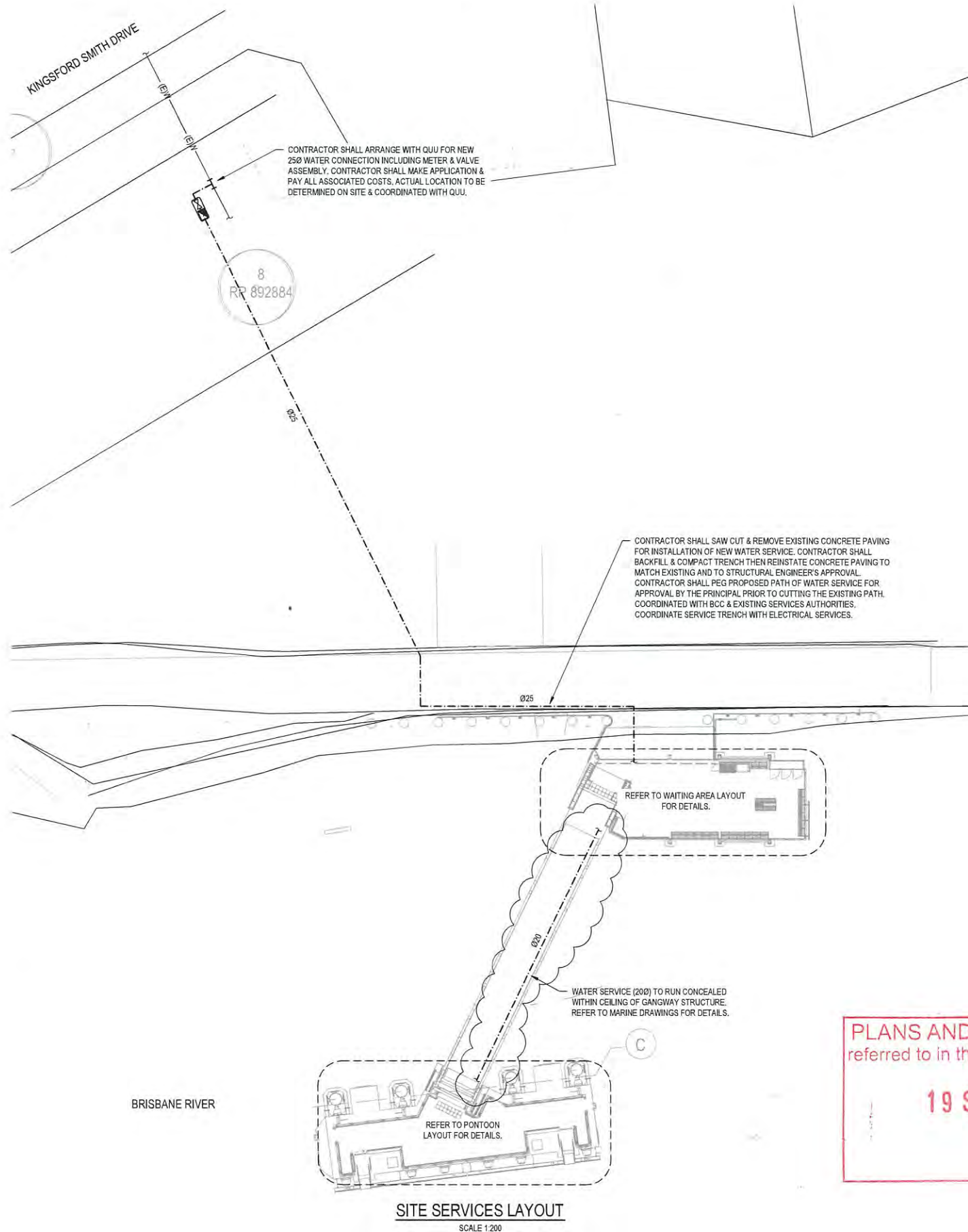
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Drawn	T. BELL	Designer	L. ALIX/J. WOLSKI
Drafting Check	*J. WOLSKI	Design Check	*P. PILLAI
Approved	*P. O'KEEFE (Project Director)		*P. KNIGHT
Date	14.03.14	RPEQ No.	4123
Scale	NTS	This Drawing must not be used for Construction unless signed as Approved	

Client **BRISBANE CITY COUNCIL**
Project **BRETTS WHARF CityCat TERMINAL**
Title **ELECTRICAL SERVICES SCHEMATICS & DETAILS**

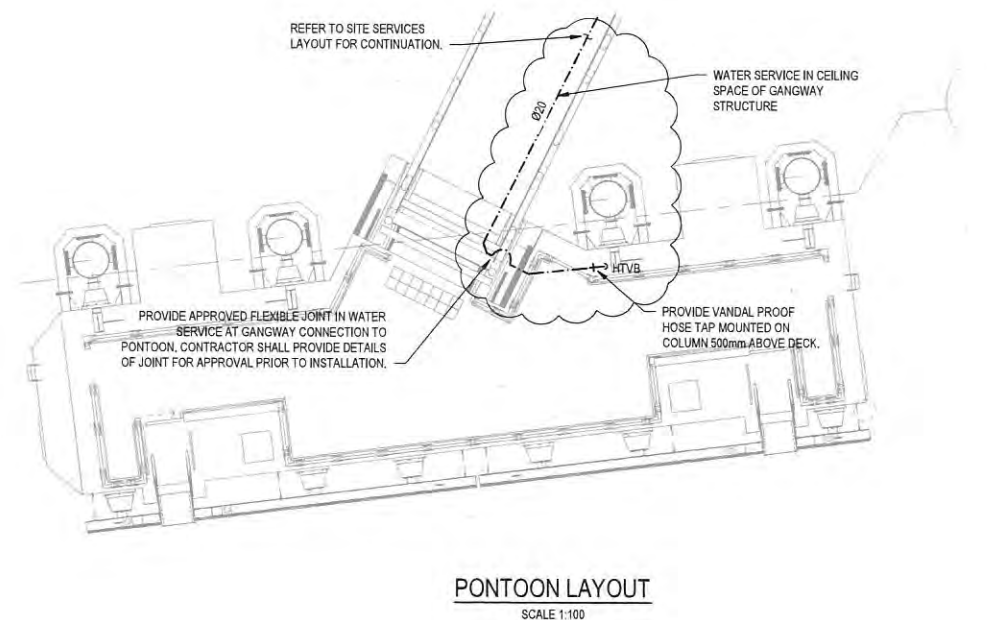
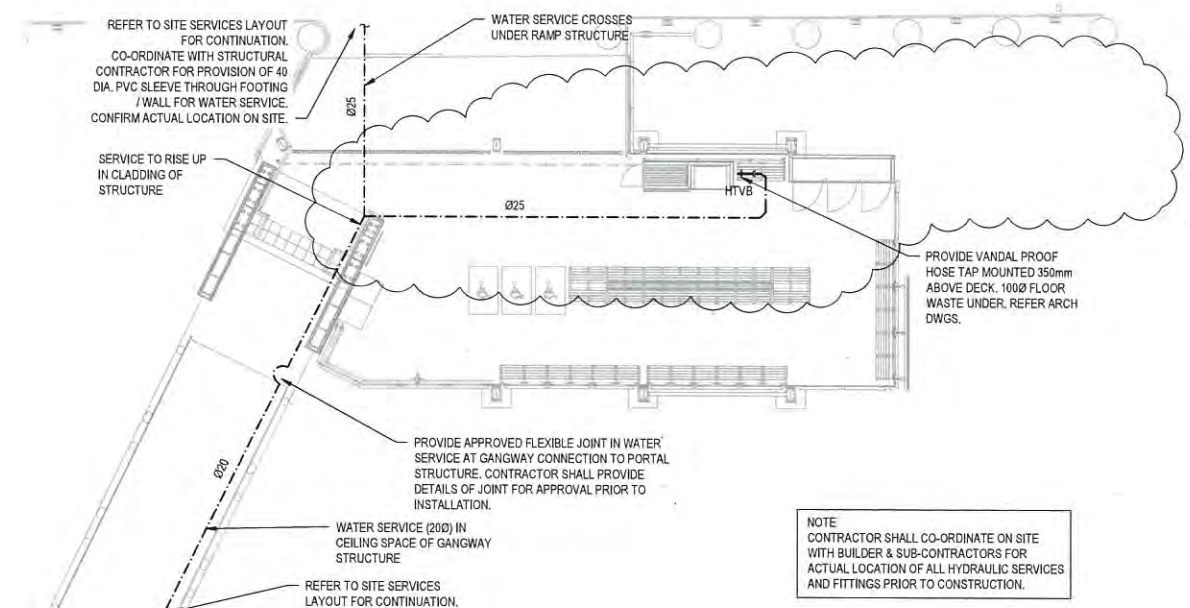
Original Size **A1** Drawing No: **41-27289-03-E004**

Rev: 1



- NOTES**
- POTABLE COLD WATER SERVICE - MDPE TO AS/NZS 4130 CLASS PE80B SDR11 PN12.5 BLUE STRIPE - FUSION WELDED JOINTS
 - POTABLE COLD WATER SERVICE - MDPE TO AS/NZS 4130 CLASS PE80B SDR11 PN12.5 GREEN STRIPE - FUSION WELDED JOINTS
 - ALL HYDRAULIC SERVICES CLIPS & FIXINGS SHALL BE 316 SS.
 - ALL HYDRAULIC SERVICE PIPES & FITTINGS SHALL BE FIXED IN ACCORDANCE WITH THE PIPE MANUFACTURER'S SPECIFICATION FOR THIS FACILITY.
 - ALL HYDRAULIC SERVICES VALVES SHALL BE STAINLESS STEEL. RP20 SHALL BE WATTS/SMC OR EQUIVALENT.

HOSE TAP SCHEMATIC
NOT TO SCALE

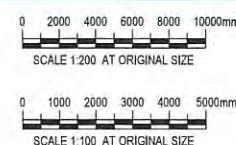


PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

19 SEP 2014

MEDQ

No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
1		WATER TANK REMOVED	CEH	*MAE	*POK	06.05.14
0		ISSUED FOR CONSTRUCTION	CH	*ME	*POK	14.03.14



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Drawn	T. RICHTERS	Designer	T. RICHTERS
Drafting	* M. STEWART	Design	* G. MESSINIS
Check		Check	
Approved	* P. O'KEEFE (Project Director)		* G. MESSINIS
Date	14.03.14		QBSA 1005601
Scale	AS SHOWN		This Drawing must not be used for Construction unless signed as Approved

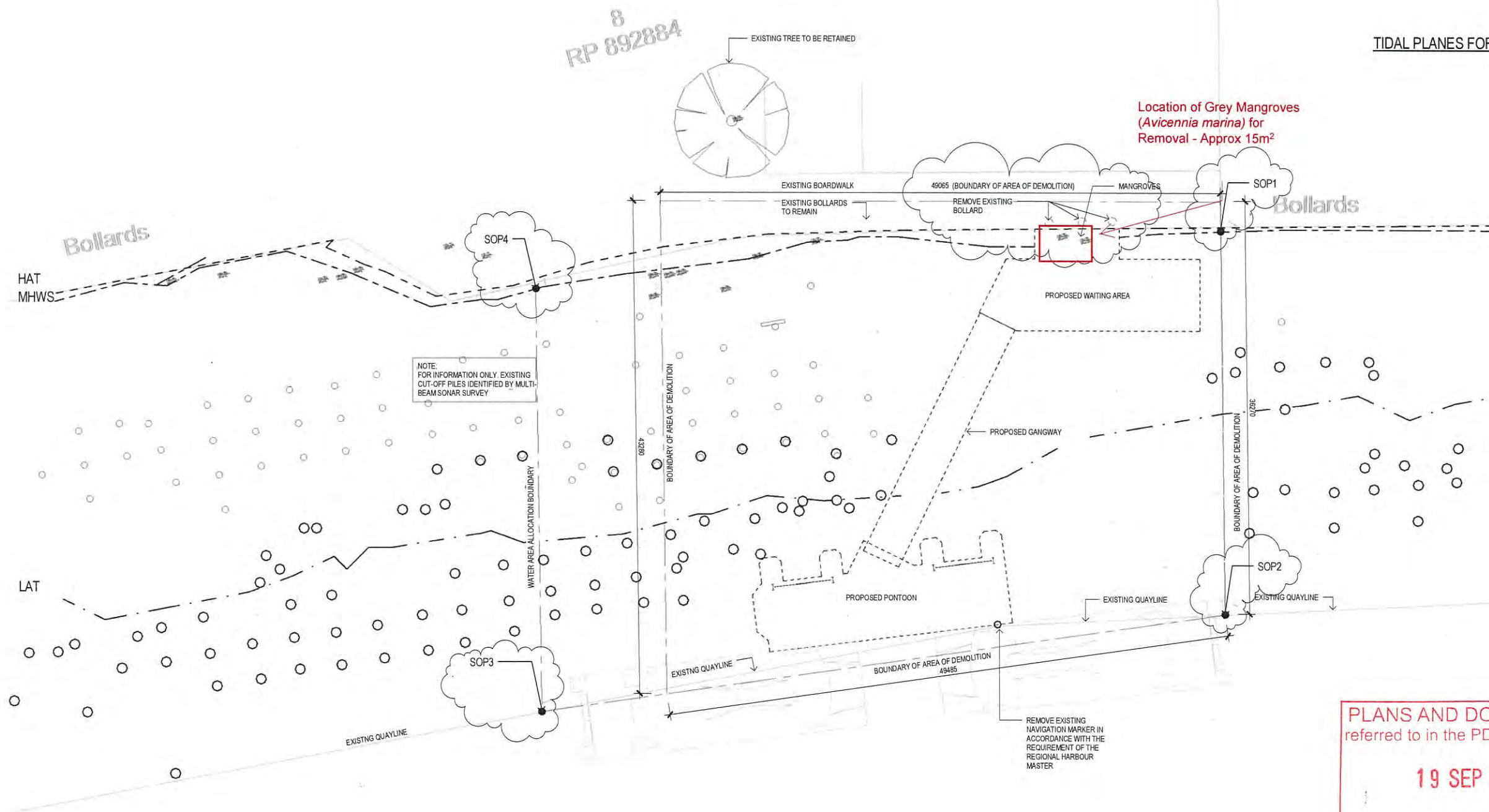
Client	BRISBANE CITY COUNCIL
Project	BRETT'S WHARF CityCat TERMINAL
Title	HYDRAULIC SERVICES ROOF WATER DRAINAGE & WATER SERVICES LAYOUT
Original Size	A1
Drawing No:	41-27289-03-H302
Rev:	1

LEGEND

- HIGHEST ASTRONOMICAL TIDE
- MEAN HIGH WATER SPRINGS
- LOWEST ASTRONOMICAL TIDE
- CONTOUR LINES

	AHD	LAT
HAT	1.65	2.89
MHWS	1.06	2.30
AHD	0.0	1.24
MLWS	-0.85	0.39
LAT	-1.24	0.0

TIDAL PLANES FOR 2013 TIDE TABLES



PLANS AND DOCUMENTS referred to in the PDA APPROVAL

19 SEP 2014

MEDQ

DEMOLITION PLAN
SCALE 1:200

No	Revision	Note	Drawn	Checked	Approved	Date
1	REVISIONS AS CLOUDED		B.L	MAE*	POK*	30.04.14
0	ISSUE FOR CONSTRUCTION		C.H	MAE*	POK*	14.03.14

0 2000 4000 6000 8000 10000mm
SCALE 1:200 AT ORIGINAL SIZE

NOTE:
ALL LEVELS TO AHD



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Drawn	BL / C. HICKLING	Designed	GRK/L. CARTER
Drafting Check	*L. CLEM	Design Check	*R. WILLIAMS
Approved	P.O'KEEFE		*R. WALLIS*
Date	14.03.14		RPEQ No. 949
Scale	As indicated		This Drawing must not be used for Construction unless signed as Approved

Client **BRISBANE CITY COUNCIL**
Project **BRETT'S WHARF CityCat TERMINAL**
Title **Mangrove Location Plan - Marked up by Nell Mitchell - Brisbane City Council - 15/07/2014**

Original Size **A1** Drawing No: **41-27289-03-A003** Rev: 2