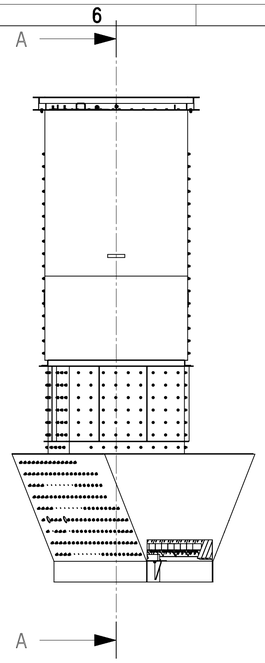
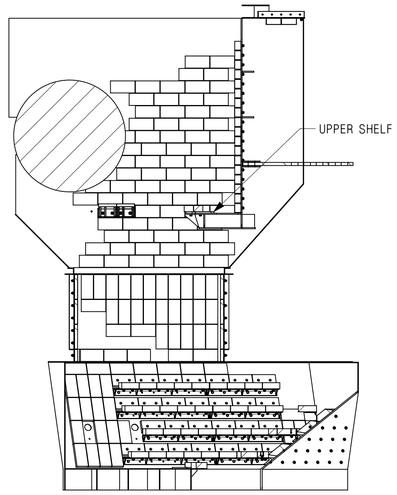
COMPONENT BILL OF MATERIALS - HEAD CHUTE (SHEET 2)						
ITEM	PART No.	MATERIAL	DESCRIPTION	QTY	EST. MASS [kg]	RIO TINTO REFERENCE
H1	RTK-T3	40/10 DUABLOCK	WALL LINER, 400X197	158	31.6	20675481
H2	RTK-ART RTK-ART-NH4	92/10 DUABLOCK NIHARD 4- 600	WALL LINER, 143X143	252	15.4	20700929 (DUABLOCK) 20700930 (NIHARD 4)
H3	BD299	DUABLOCK	BILLET LINER, 300X150	9	33.4	-
H4	RTK-WAF10	NIHARD 4-600	WAFFLE LINER	4	35.2	20675438
H5	BKA1323-6	LISTED - SEE PART DRAWING	BAFFLE PLATE ACESS	1	195.0	-
H6	BKA1323-5-001	1 INCH AR 400 OR BETTER	BAFFLE PLATE SHELF - REPAIR PLATE	1	142.8	-
H7	BKA1323-3	LISTED SEE PART DRAWING	BRACKET, WAFFLE LINER	2	38.6	-
H8	BKA1323-17	1/2 INCH A36 MILD STEEL PLATE	BACKING PLATE	2	16.2	-
			TOTAL:	429	9762.4	-

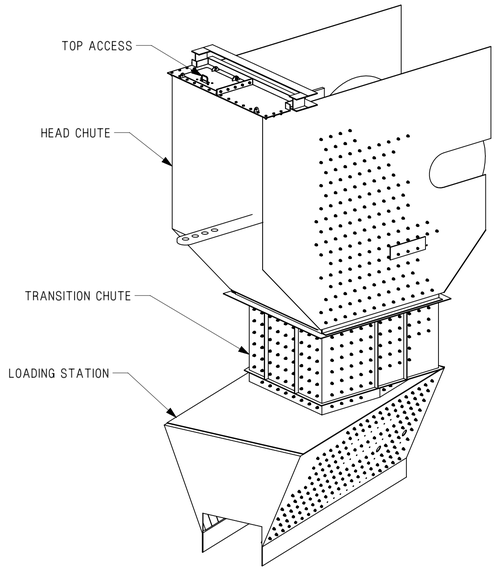
COMPONENT BILL OF MATERIALS - TRANSITION CHUTE (SHEET 3)						
ITEM	PART No.	MATERIAL	DESCRIPTION	QTY	EST. MASS [kg]	RIO TINTO REFERENCE
T1	RTK-T3	40/10 DUABLOCK	WALL LINER, 400X197	133	31.6	2067541
			TOTAL:	133	4202.8	-

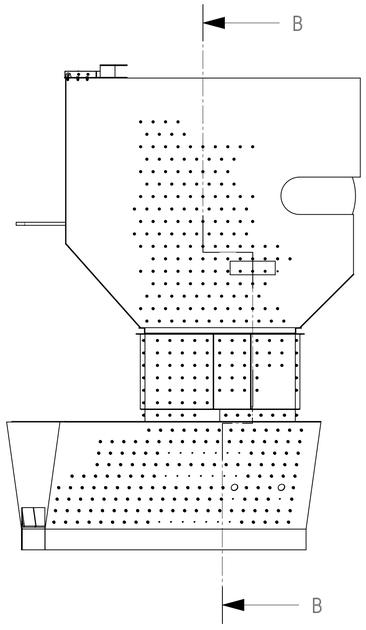
COMPONENT BILL OF MATERIALS - LOADING STATION (SHEET 4)						
ITEM	PART No.	MATERIAL	DESCRIPTION	QTY	EST. MASS [kg]	RIO TINTO REFERENCE
L1	BKA1323-14	SEE DRAWING	ASSEMBLY, LOADING V RENNOVATION	1	46.9	-
L2	BKA1323-18	SEE DRAWING	LINER SHELF, 4 BILLETS	10	27.6	-
L3	BKA1323-19	SEE DRAWING	LINER SHELF, 5 BILLETS, TYPE A	3	37.8	-
L4	BKA1323-20	SEE DRAWING	LINER SHELF, 5 BILLETS, TYPE B	3	37.8	-
L5	BD299	DUABLOCK	BILLET LINER, 300 X 150	73	33.3	-
L6	RTK-T3-NH4	NIHARD 4	WEAR LINER, WALL	54	30.8	20700932
L7	RTK-T3	40/10 DUABLOCK	WALL LINER, 400X197	60	31.6	20675481
			TOTAL:	204	6539.8	-

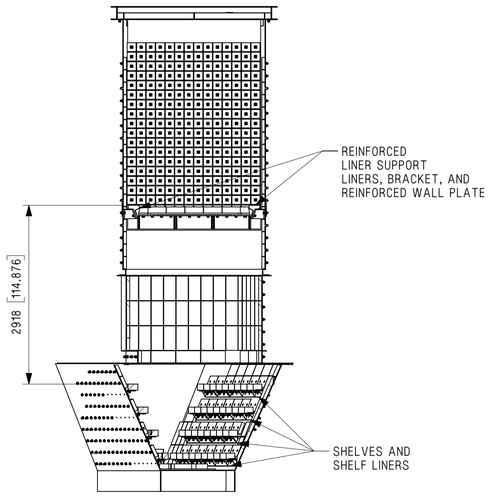




SECTION A-A







SECTION B-B

ABBREVIATIONS:

HDG - HOT DIP GALVANIZE
ZP - ZINC PLATE

NOTES UNLESS SPECIFIED OTHERWISE:

1. FOR ITEMS OVER 23KG (50 LBS) USE 2 PERSON LIFT OR USE A LIFTING AID.
2. ALL WELDS SHALL COMPLY WITH AWS D1.1
3. PACKAGE FASTENERS AS KITS AND MARK PACKAGING FOR EASY FIELD IDENTIFICATION.
4. BRADKEN CAN PROVIDE WORK INSTRUCTIONS.
5. UNITS: MM [CUSTOMARY]
6. ALL DIMENSIONS ARE REFERENCE EXCEPT FIELD MODIFICATIONS.

INSPECTION SPECIFICATIONS	GAUGE REQUIREMENTS	REFERENCE DRAWINGS	REV.

ORIGINAL ISSUE JOB # WR1168

REV	REVISION DESCRIPTION	JOB #	DRAWN BY	DATE	APPROVED	DATE
0	ORIGINAL ISSUE		BMATLOC	23/11/2022	NGARTHR	06/12/2022

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UNIGRAPHICS COMPUTER GENERATED DRAWING NO MANUAL REVISIONS

BRADKEN
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ABN 82 098 300 988

TITLE:
RIO TINTO - KUCC
C4-C6 TRANSFER STATION
GENERAL ARRANGEMENT
OVERVIEW

DRAWN: BMATLOC DATE: 23/11/2022
CHECKED: LGRAY DATE: 24/11/2022
APPROVED: NGARTHR DATE: 06/12/2022
SCALE: 1:50 DO NOT SCALE
APPROVED
ALL DIMENSIONS IN MILLIMETRES

DRAWING NO. BKA1353 | SHEET 1 OF 4 | SIZE A1 | REV 0

COMPONENT BILL OF MATERIALS						
ITEM	PART No.	MATERIAL	DESCRIPTION	QTY	EST. MASS [kg]	REFERENCE
H1	RTK-T3	40/10 DUABLOCK	WALL LINER, 400X197	158	31.6	BKA1002
H2	RTK-ART RTK-ART-NH4	92/10 DUABLOCK NIHARD 4- 600	WALL LINER, 143X143	252	15.4	BKA1050 BKA1068
H3	BD299	DUABLOCK	BILLET LINER, 300X150	9	33.4	-
H4	RTK-WAF10	NIHARD 4-600	WAFFLE LINER	4	35.2	BKA1033
H5	BKA1323-6	LISTED - SEE PART DRAWING	BAFFLE PLATE ACCESS	1	195.0	-
H6	BKA1323-5-001	1 INCH AR 400 OR BETTER	BAFFLE PLATE SHELF - REPAIR PLATE	1	142.8	-
H7	BKA1323-3	LISTED SEE PART DRAWING	BRACKET, WAFFLE LINER	2	38.6	-
H8	BKA1323-17	1/2 INCH A36 MILD STEEL PLATE	BACKING PLATE	2	16.2	-
			TOTAL:	429	9762.4	-

(H2) HARDWARE KIT (PER LINER) - HEAD CHUTE ART LINERS

DESCRIPTION	CLASS	COATING	QTY
3/4 UNC FLATHEAD CAPSCREW X 2.75 LONG	5	-	1
WASHER, 3/4 INCH	-	-	1
NUT, HEAVY HEX, 3/4-UNC, SELF LOCKING	-	-	1

(H1) HARDWARE KIT (PER LINER) - HEAD CHUTE WALL LINERS

DESCRIPTION	CLASS	COATING	QTY
NUT, HEAVY HEX, 3/4-UNC, SELF LOCKING	5	-	2
WASHER, 3/4 INCH	-	-	2

(H4) HARDWARE KIT (PER LINER) - LINER TO SUPPORT

DESCRIPTION	CLASS	COATING	QTY
FLATHEAD CAP SCREW 3/4 UNC X 2.75 LONG	8	-	2
ASTM F436 HARDENED WASHER, 3/4 INCH	-	-	2
NUT, HEAVY HEX, 3/4-UNC, SELF LOCKING	GRADE C	HDG	2

(H3) HARDWARE KIT (PER LINER) - 300X150 BILLET LINERS

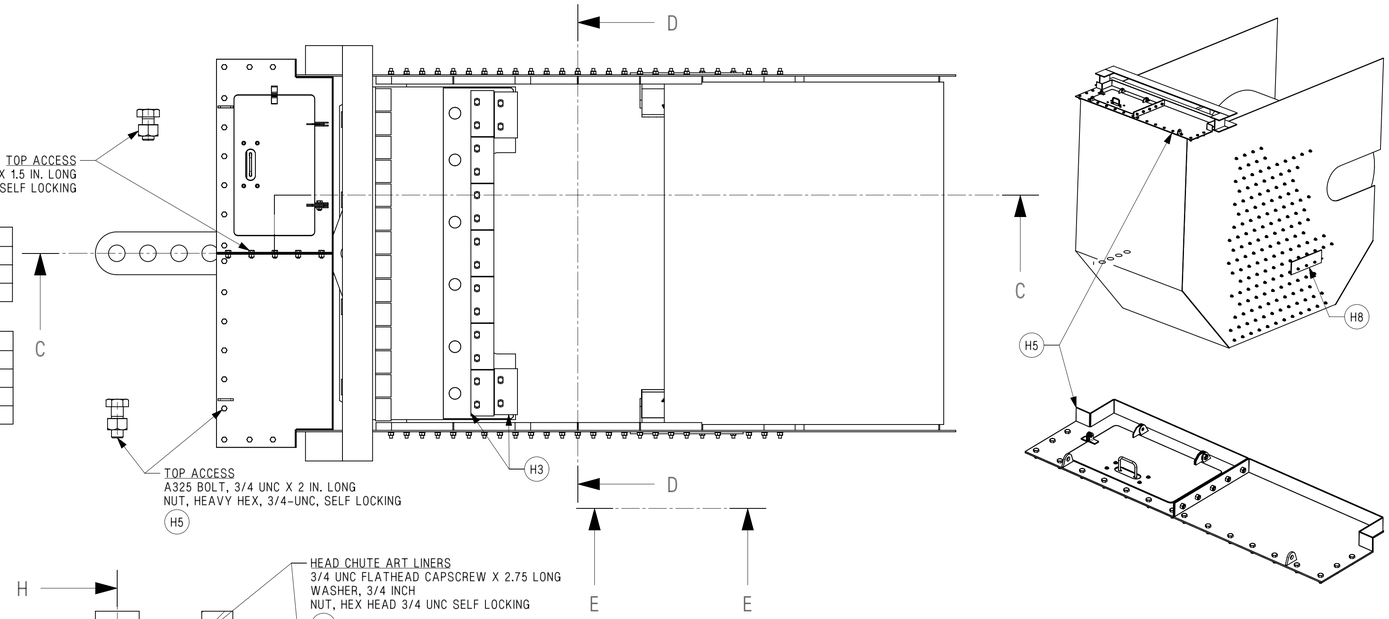
DESCRIPTION	CLASS	COATING	QTY
3/4 UNC HEAVY HEX BOLT, 2 IN. LONG	8	-	2
WASHER, 3/4 INCH	-	-	2
NUT, HEAVY HEX, 3/4-UNC, SELF LOCKING	-	-	2

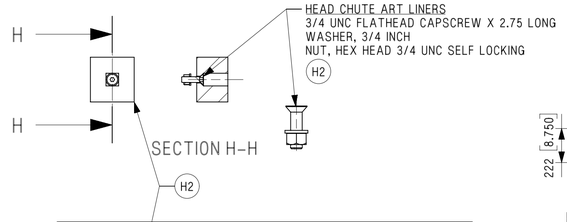
(H7)(H8) HARDWARE KIT (PER BRACKET) - LINER SUPPORT TO STRUCTURE

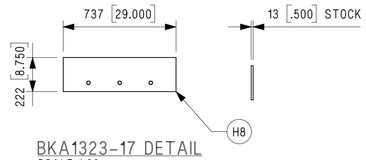
DESCRIPTION	CLASS	COATING	QTY
3/4 UNC X 2.75 LONG, STRUCTURAL BOLT	A325	TYPE 3	3
WASHER 3/4 INCH	F436	-	3
NUT, HEAVY HEX, 3/4-UNC, SELF LOCKING	GRADE C	ZP	3

(H5) HARDWARE KIT (PER ASSEMBLY) - TOP ACCESS
SEE BKA1323-6 FOR COMPLETE FASTENER LIST

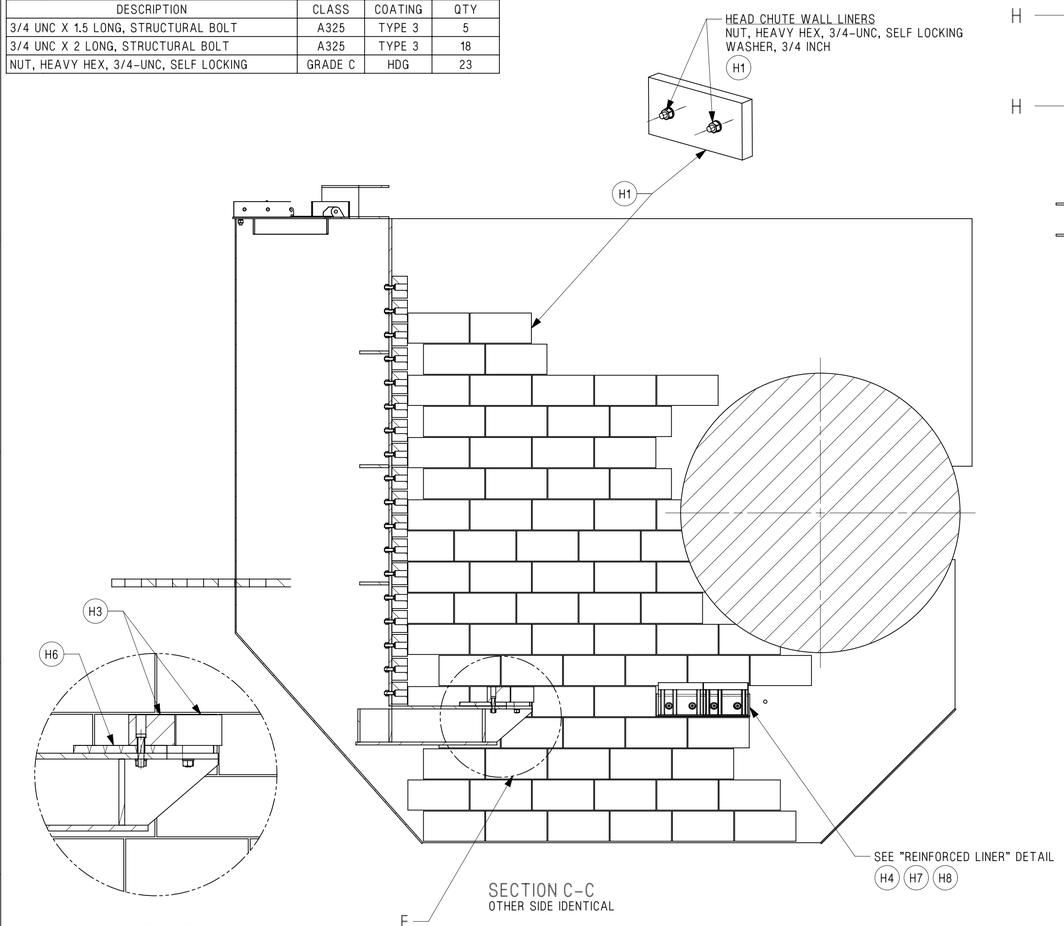
DESCRIPTION	CLASS	COATING	QTY
3/4 UNC X 1.5 LONG, STRUCTURAL BOLT	A325	TYPE 3	5
3/4 UNC X 2 LONG, STRUCTURAL BOLT	A325	TYPE 3	18
NUT, HEAVY HEX, 3/4-UNC, SELF LOCKING	GRADE C	HDG	23





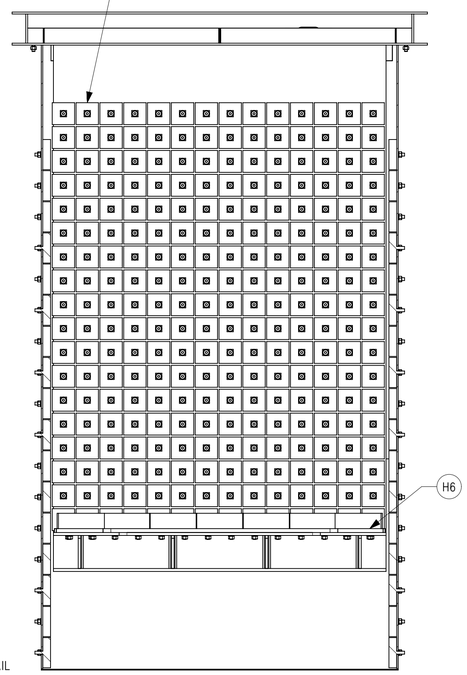


BKA1323-17 DETAIL
SCALE 1:20
ALL DIMENSIONS
REFERENCE ONLY
(H8)



SECTION C-C
OTHER SIDE IDENTICAL

DETAIL F
SEE BKA1323-5-001 DETAIL



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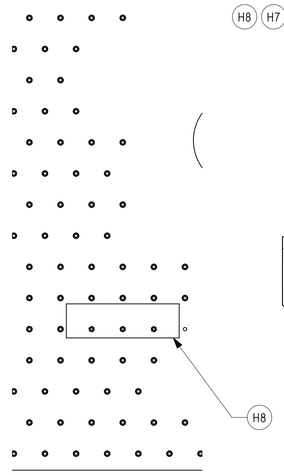

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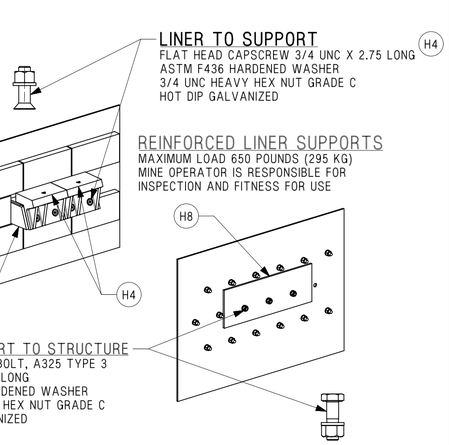

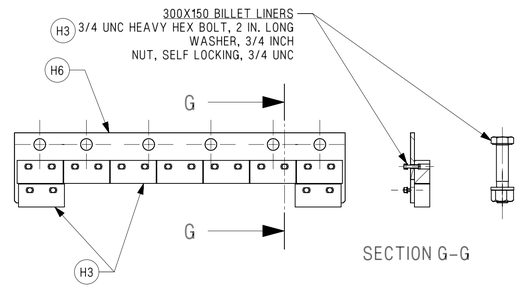

SECTION G-G

(H6) BKA1323-5-001 WITH LINERS
BKA1323-5-001 INSTALLATION IS A ONE-TIME MODIFICATION
CONTACT BRADKEN FOR INSTALLATION GUIDANCE

INSPECTION SPECIFICATIONS	GAUGE REQUIREMENTS	REFERENCE DRAWINGS	REV.

ORIGINAL ISSUE
JOB # WR1168
REVISION

REV	REVISION DESCRIPTION	JOB #	DRAWN BY	DATE	APPROVED	DATE
0	ORIGINAL ISSUE		BMATLOC	23/11/2022	NGARTHR	06/12/2022

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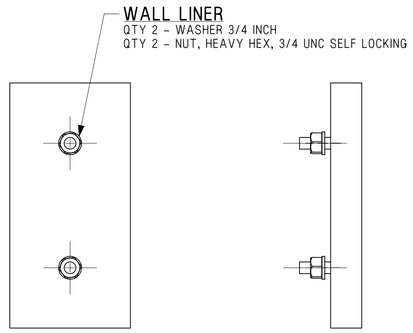
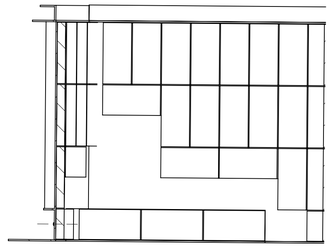
TITLE:
RIO TINTO - KUCC
C4-C6 TRANSFER STATION
GENERAL ARRANGEMENT
HEAD CHUTE

DRAWN: BMATLOC DATE: 23/11/2022
CHECKED: LGRAY DATE: 24/11/2022
APPROVED: NGARTHR DATE: 06/12/2022
SCALE: 1:50 DO NOT SCALE
APPROVED
ALL DIMENSIONS IN MILLIMETRES
DRAWING NO. BKA1353
SHEET 2 OF 4
SIZE A1
REV 0

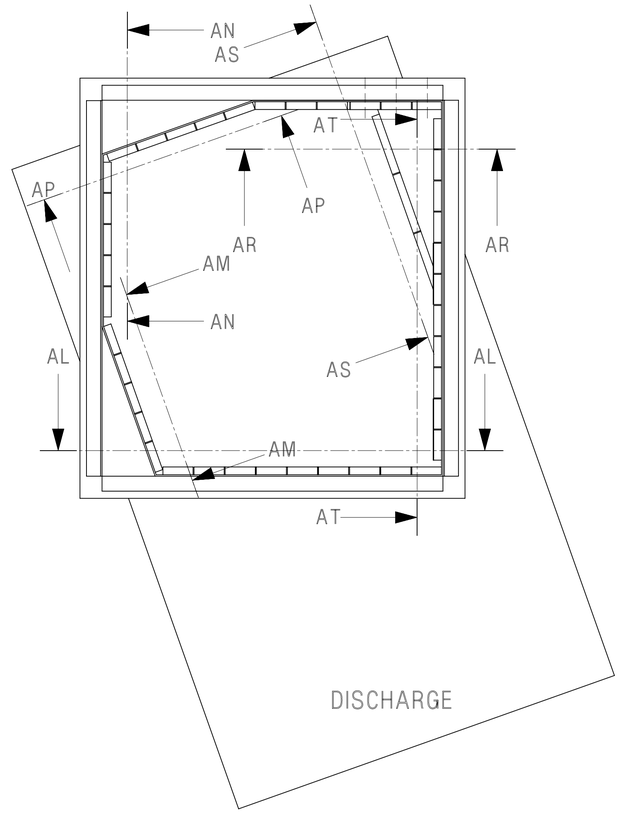
PRINTED BY: BMATLOCK; DATE: 28/01/2023 8:13:28 AM

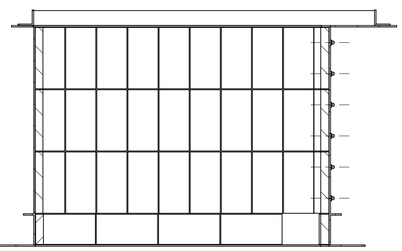
COMPONENT BILL OF MATERIALS - TRANSITION CHUTE (SHEET 3)						
ITEM	PART No.	MATERIAL	DESCRIPTION	QTY	EST. MASS [kg]	RIO TINTO REFERENCE
T1	RTK-T3	40/10 DUABLOCK	WALL LINER, 400X197	133	31.6	2067541
			TOTAL:	133	4202.8	-





SECTION AS-AS





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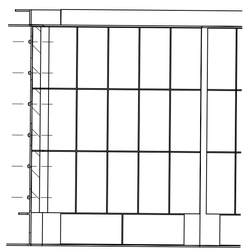

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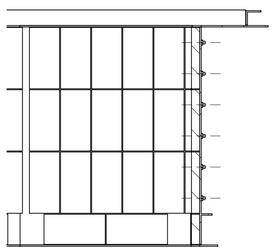

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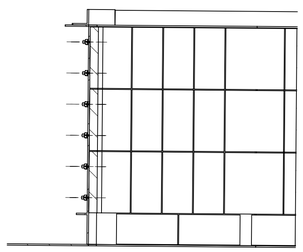

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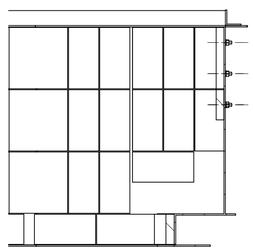

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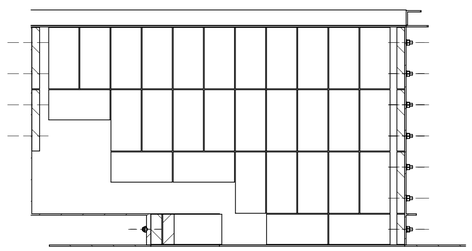

SECTION AT-AT

INSPECTION SPECIFICATIONS	GAUGE REQUIREMENTS	REFERENCE DRAWINGS	REV.

ORIGINAL ISSUE JOB # WR1168

REV	REVISION DESCRIPTION	JOB #	DRAWN BY	DATE	APPROVED	DATE
0	ORIGINAL ISSUE		BMATLOC	23/11/2022	NGARTHR	06/12/2022

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TITLE:

RIO TINTO - KUCC
C4-C6 TRANSFER STATION
GENERAL ARRANGEMENT
TRANSITION CHUTE

DRAWN: BMATLOC	DATE: 23/11/2022	APPROVED	ALL DIMENSIONS IN MILLIMETRES
CHECKED: LGRAY	DATE: 24/11/2022		
APPROVED: NGARTHR	DATE: 06/12/2022		
SCALE: 1:10	DO NOT SCALE		

DRAWING NO.	SHEET	SIZE	REV
BKA1353	3 OF 4	A1	0

COMPONENT BILL OF MATERIALS						
ITEM	PART No.	MATERIAL	DESCRIPTION	QTY	EST. MASS [kg]	REFERENCE
L1	BKA1323-14	SEE DRAWING	ASSEMBLY, LOADING V RENNOVATION	1	46.9	BKA1323-14
L2	BKA1323-18	SEE DRAWING	LINER SHELF, 4 BILLETS	10	27.6	BKA1323-18
L3	BKA1323-19	SEE DRAWING	LINER SHELF, 5 BILLETS, TYPE A	3	37.8	BKA1323-19
L4	BKA1323-20	SEE DRAWING	LINER SHELF, 5 BILLETS, TYPE B	3	37.8	BKA1323-20
L5	BD299	DUABLOCK	BILLET LINER, 300 X 150	73	33.3	-
L6	RTK-T3-NH4	NIHARD 4	WEAR LINER, WALL	54	30.8	BKA1040
L7	RTK-T3	40/10 DUABLOCK	WALL LINER, 400X197	60	31.6	-
			TOTAL:	204	6539.8	-

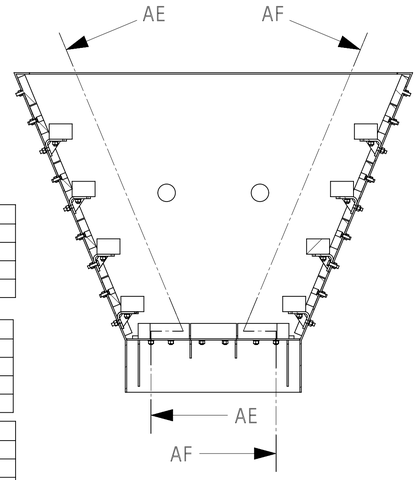
L6 HARDWARE KIT (PER LINER) - RTK-T3-NH4 WALL LINER			
DESCRIPTION	CLASS	COATING	QTY
FLATHEAD CAPSCREW, 3/4 UNC X 2.25 INCH LONG	8	ZP	2
WASHER 3/4 INCH	-	-	2
NUT, HEAVY HEX, 3/4 UNC SELF LOCKING	-	ZP	2

L5 HARDWARE KIT (PER LINER) - BD299 SHELF LINER			
DESCRIPTION	CLASS	COATING	QTY
3/4 UNC HEAVY HEX BOLT, 2.75 IN. LONG	8	ZP	2
WASHER, 3/4 INCH	-	-	2
NUT, HEAVY HEX, 3/4 UNC SELF LOCKING	-	ZP	2

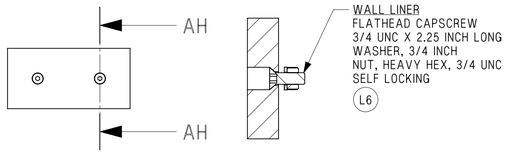
L2 HARDWARE KIT (PER SHELF) - SHELF TO STRUCTURE			
DESCRIPTION	CLASS	COATING	QTY
3/4 UNC HEAVY HEX BOLT, 2 IN. LONG	8	ZP	6
WASHER 3/4 INCH	-	-	6
NUT, HEAVY HEX, 3/4 UNC SELF LOCKING	-	ZP	6

L5 HARDWARE KIT (PER LINER) - BD299 LOADING V			
DESCRIPTION	CLASS	COATING	QTY
3/4 UNC HEAVY HEX BOLT, 2.5 IN. LONG	8	ZP	2
WASHER 3/4 INCH	-	-	2
NUT, HEAVY HEX, 3/4 UNC SELF LOCKING	-	ZP	2

L3 L4 HARDWARE KIT (PER SHELF) - SHELF TO STRUCTURE			
DESCRIPTION	CLASS	COATING	QTY
3/4 UNC HEAVY HEX BOLT, 2 IN. LONG	8	ZP	8
WASHER 3/4 INCH	-	-	8
NUT, HEAVY HEX, 3/4 UNC SELF LOCKING	-	ZP	8

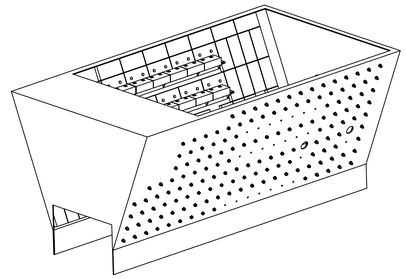


SECTION AD-AD

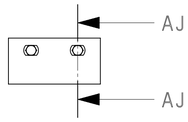


SECTION AH-AH

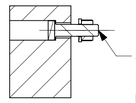
L6 RTK-T3-NH4 DETAIL



PICTORIAL VIEW
DISCHARGE END NEAR SIDE
SCALE 5:200

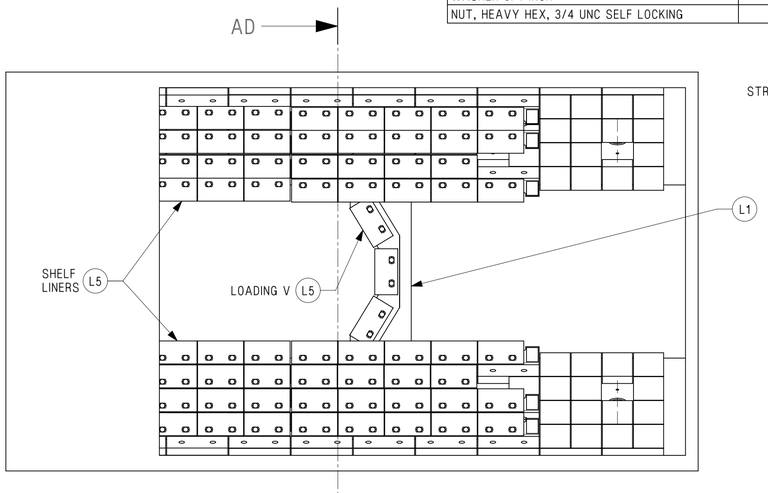


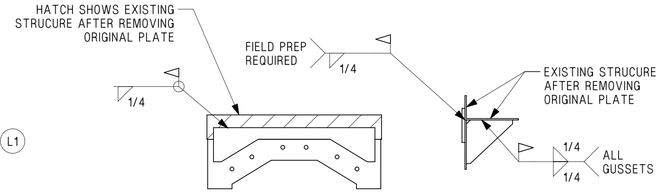
L5 BD299 DETAIL
SHELF LINERS

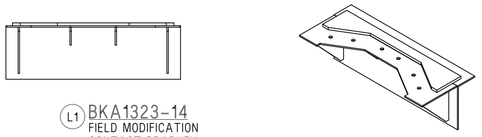


SHELF LINERS
3/4 UNC HEAVY HEX BOLT, 2.75 IN. LONG
WASHER, 3/4 INCH
NUT, HEAVY HEX, 3/4 UNC
SELF LOCKING
L5

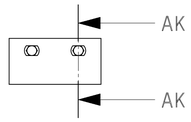
SECTION AJ-AJ



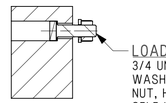




L1 BKA1323-14
FIELD MODIFICATION
CONTACT BRADKEN

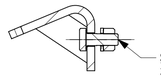


L5 BD299 DETAIL
LOADING V LINERS



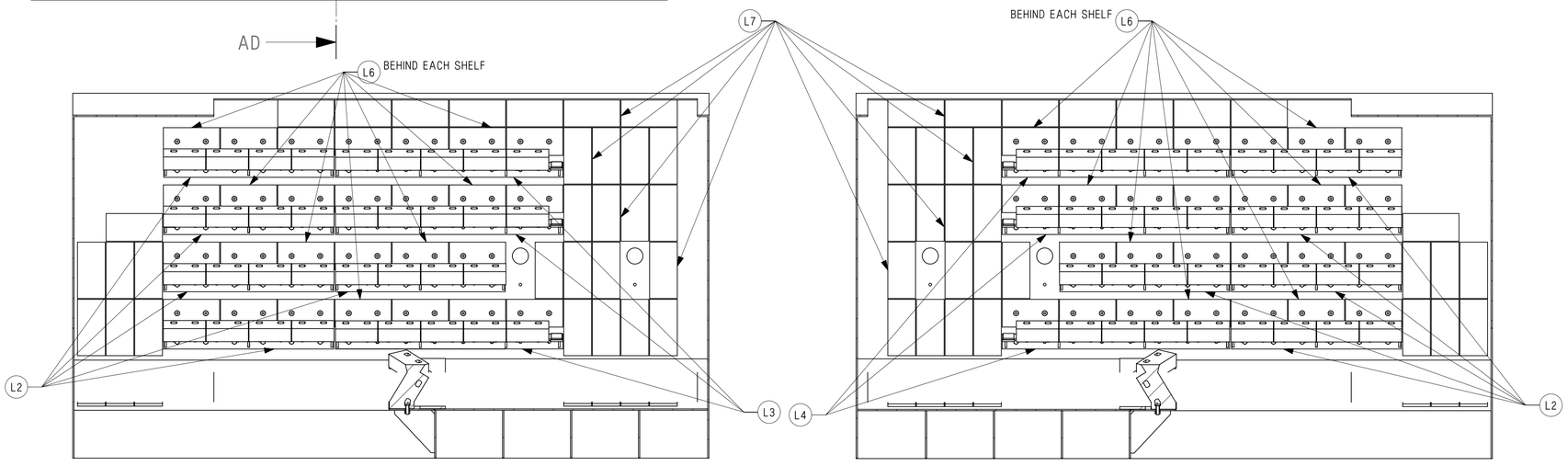
LOADING V
3/4 UNC HEAVY HEX BOLT, 2.5 IN. LONG
WASHER, 3/4 INCH
NUT, HEAVY HEX, 3/4 UNC
SELF LOCKING
L5

SECTION AK-AK



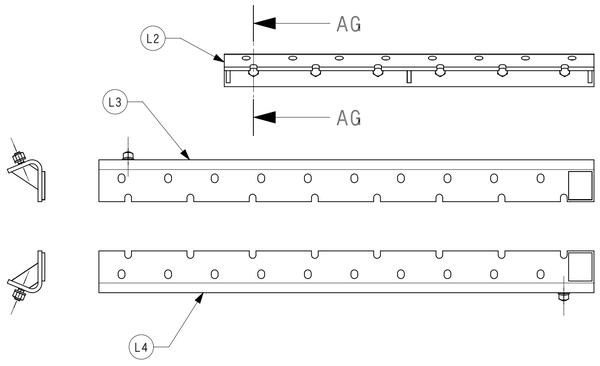
SHELVES TO STRUCTURE
3/4 UNC HEAVY HEX BOLT, 2 IN. LONG
WASHER, 3/4 INCH
NUT, HEAVY HEX, 3/4 UNC
SELF LOCKING
L2 L3 L4

SECTION AG-AG
SHELF FASTENER DETAIL



SECTION AE-AE

SECTION AF-AF



INSPECTION SPECIFICATIONS	GAUGE REQUIREMENTS	REFERENCE DRAWINGS	REV.

REV	REVISION DESCRIPTION	JOB #	DRAWN BY	DATE	APPROVED	DATE
0	ORIGINAL ISSUE		BMATLOC	23/11/2022	NGARTHR	06/12/2022

ORIGINAL ISSUE JOB # WR1168
REVISION

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TITLE:
RIO TINTO - KUCC
C4-C6 TRANSFER STATION
GENERAL ARRANGEMENT
LOADING STATION

DRAWN: BMATLOC DATE: 23/11/2022
CHECKED: LGRAY DATE: 24/11/2022
APPROVED: NGARTHR DATE: 06/12/2022
SCALE: 1:20 DO NOT SCALE
APPROVED
ALL DIMENSIONS IN MILLIMETRES

DRAWING NO. BKA1353
SHEET 4 OF 4
SIZE A1
REV 0