

PROJECT  
SEVEN MILE WASTE FACILITY  
- CELL 1

CLIENT  
CITY OF KARRATHA

DRAWING LIST

DRAWING NUMBER	DRAWING TITLE
TW16001-G-001	PROJECT COVER SHEET
TW16001-G-010	EXISTING TOPOGRAPHY AND FEATURES
TW16001-G-011	OVERVIEW OF WORKS
TW16001-C-001	DEVELOPMENT OF LANDFILL - CELL 1
TW16001-C-002	LEACHATE COLLECTION AND MANAGEMENT - CELL 1
TW16001-G-901	LEACHATE COLLECTION SUMP & EXTRACTION DETAILS
TW16001-G-902	BUND AND BASAL LINING DETAILS
TW16001-P-901	LEACHATE RISING MAIN PIPING DETAILS
TW16001-P-902	SUB LANDFILL LEACHATE COLLECTION PIPING DETAILS

PRELIMINARY ONLY  
NOT FOR CONSTRUCTION



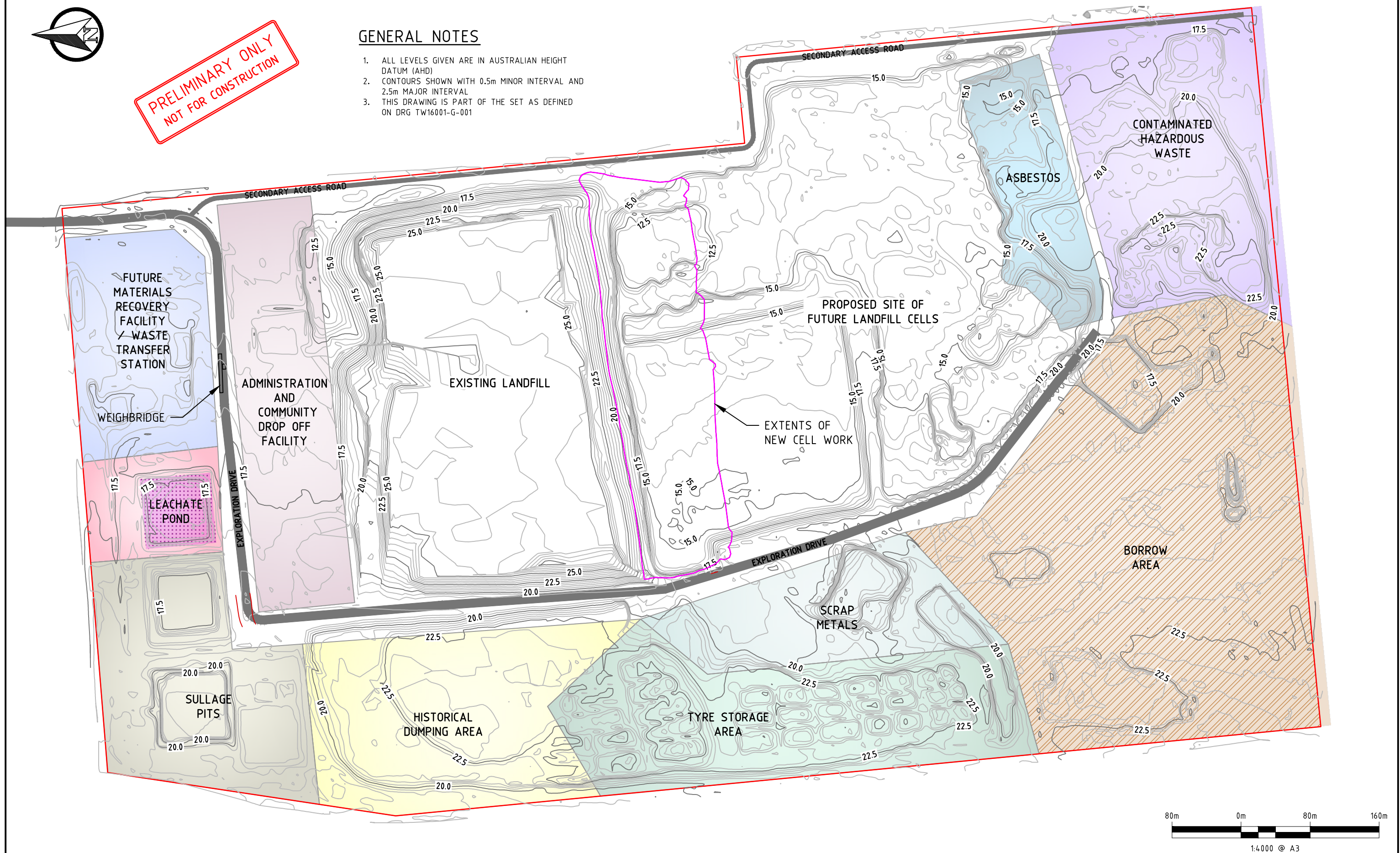




PRELIMINARY ONLY  
NOT FOR CONSTRUCTION

### GENERAL NOTES

1. ALL LEVELS GIVEN ARE IN AUSTRALIAN HEIGHT DATUM (AHD)
2. CONTOURS SHOWN WITH 0.5m MINOR INTERVAL AND 2.5m MAJOR INTERVAL
3. THIS DRAWING IS PART OF THE SET AS DEFINED ON DRG TW16001-G-001



#### NOTES

1. This drawing is the property of Talis Consultants Pty Ltd. It is a confidential document and must not be copied, used, or its contents divulged without prior written consent.
2. All levels refer to Australian Height Datum.
3. DO NOT SCALE, use figured dimensions only, if in doubt please contact Talis Consultants.

No.	Date	Drawn	Check	Amendment / Issue	App.
C	14.06.17	CDB	LM	ADDED CELL 2	
B	04.10.16	CDB	LM	RE-ISSUED FOR CLIENT REVIEW	
A	30.06.16	CDB	LM	ISSUED FOR CLIENT REVIEW	
No.	Date	Drawn	Check	Amendment / Issue	App.

Project:

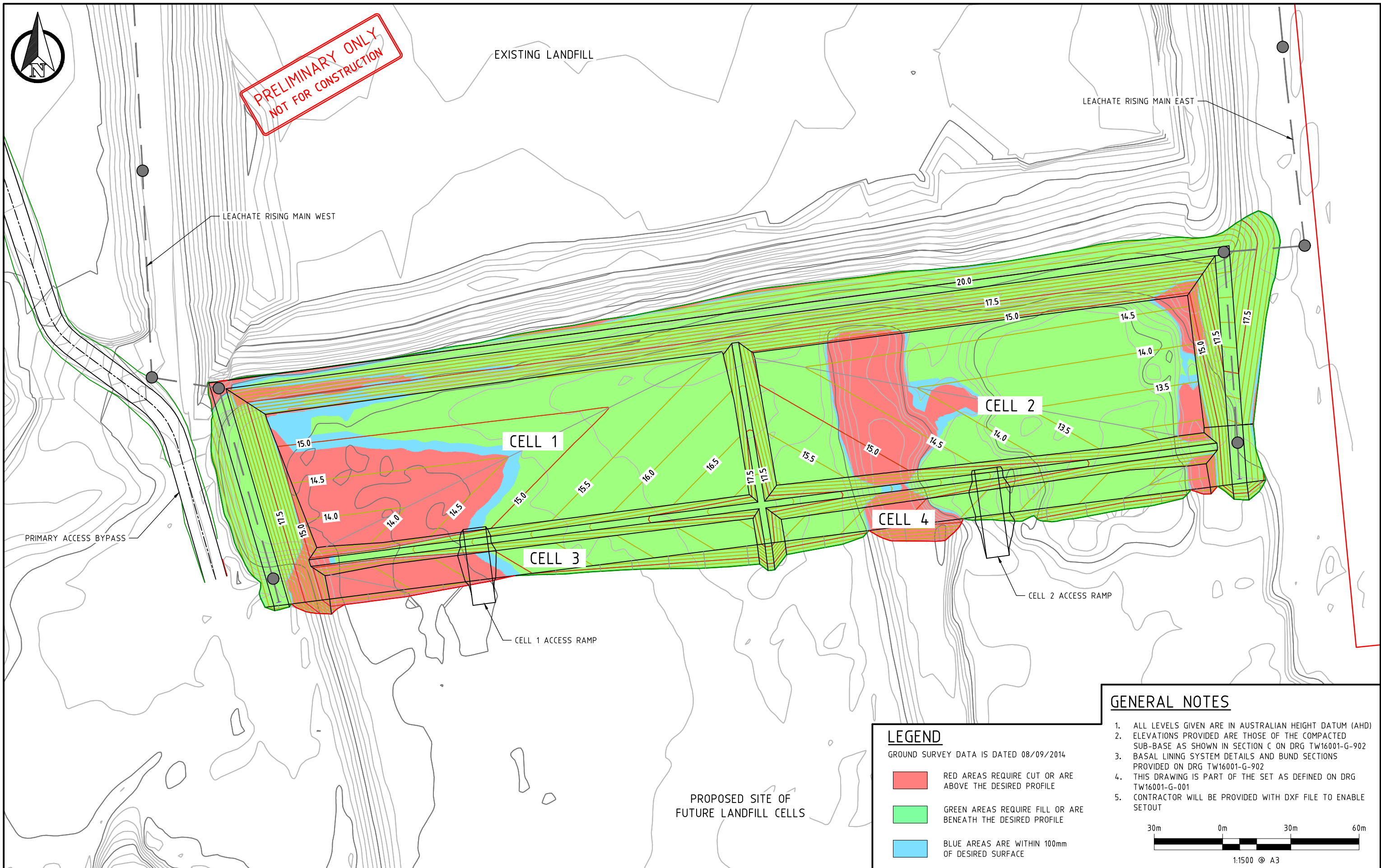
SEVEN MILE WASTE  
FACILITY - KARRATHA

Title:

EXISTING TOPOGRAPHY  
AND FEATURES

Drawn by:	CDB	Job No:	TW16001
Checked by:	LM	File No:	TW16001-G-010
Approved by:		Drg. No:	G-010
Scale:	1:4,000 @ A3	Rev:	C
Date:	14.06.2017		





GENERAL NOTES

- 1. ALL LEVELS GIVEN ARE IN AUSTRALIAN HEIGHT DATUM (AHD)
- 2. ELEVATIONS PROVIDED ARE THOSE OF THE COMPACTED SUB-BASE AS SHOWN IN SECTION C ON DRG TW16001-G-902
- 3. BASAL LINING SYSTEM DETAILS AND BUND SECTIONS PROVIDED ON DRG TW16001-G-902
- 4. THIS DRAWING IS PART OF THE SET AS DEFINED ON DRG TW16001-G-001
- 5. CONTRACTOR WILL BE PROVIDED WITH DXF FILE TO ENABLE SETOUT



LEGEND

- GROUND SURVEY DATA IS DATED 08/09/2014
- RED AREAS REQUIRE CUT OR ARE ABOVE THE DESIRED PROFILE
  - GREEN AREAS REQUIRE FILL OR ARE BENEATH THE DESIRED PROFILE
  - BLUE AREAS ARE WITHIN 100mm OF DESIRED SURFACE

NOTES

- 1. This drawing is the property of Talis Consultants Pty Ltd. It is a confidential document and must not be copied, used, or its contents divulged without prior written consent.
- 2. All levels refer to Australian Height Datum.
- 3. DO NOT SCALE, use figured dimensions only, if in doubt please contact Talis Consultants.

No.	Date	Drawn By	Amendment / Issue	App.
C	14.06.17	CDB	ADDED CELL 2	
B	04.10.16	CDB	RE-ISSUED FOR CLIENT REVIEW	
A	22.06.16	CDB	ISSUED FOR CLIENT REVIEW	

Project: SEVEN MILE WASTE FACILITY - KARRATHA

Title: DEVELOPMENT OF LANDFILL CELL 1 & 2

Drawn by:	CDB	Job No:	TW16001
Checked by:	LM	File No:	TW16001-C-001
Approved by:		Drg. No:	C-001
Scale:	1:1000 @ A3	Rev:	C
Date:	14.06.2017		



talisd  
delivering solutions

www.talisconsultants.com.au

ASSET MANAGEMENT  
CIVIL ENGINEERING  
ENVIRONMENTAL SERVICES  
SPATIAL INTELLIGENCE  
WASTE MANAGEMENT

Level 1 660 Newcastle Street,  
Leederville WA 6007  
PO Box 454, Leederville WA 6903

Client: City of Karratha

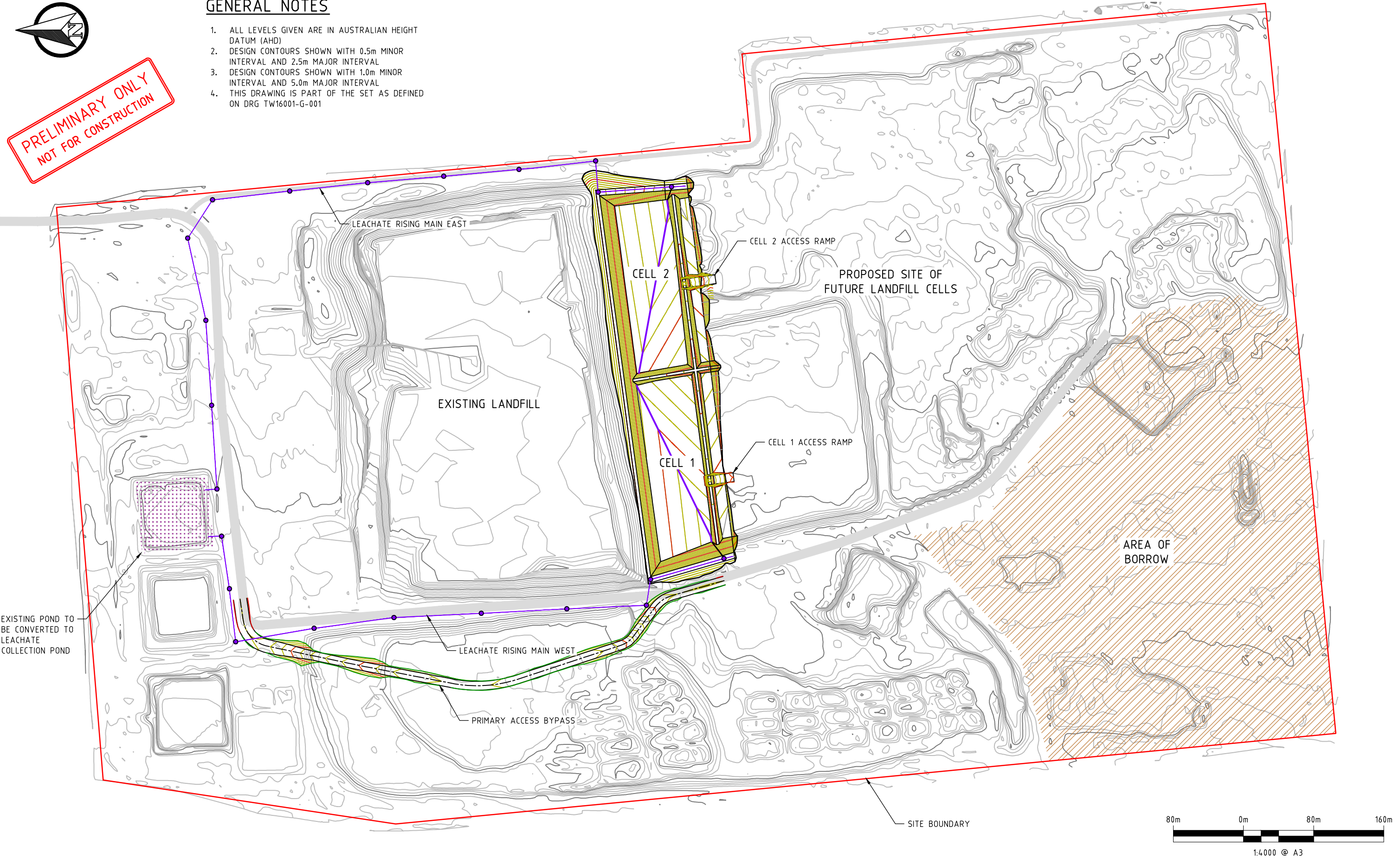




GENERAL NOTES

- 1. ALL LEVELS GIVEN ARE IN AUSTRALIAN HEIGHT DATUM (AHD)
- 2. DESIGN CONTOURS SHOWN WITH 0.5m MINOR INTERVAL AND 2.5m MAJOR INTERVAL
- 3. DESIGN CONTOURS SHOWN WITH 1.0m MINOR INTERVAL AND 5.0m MAJOR INTERVAL
- 4. THIS DRAWING IS PART OF THE SET AS DEFINED ON DRG TW16001-G-001

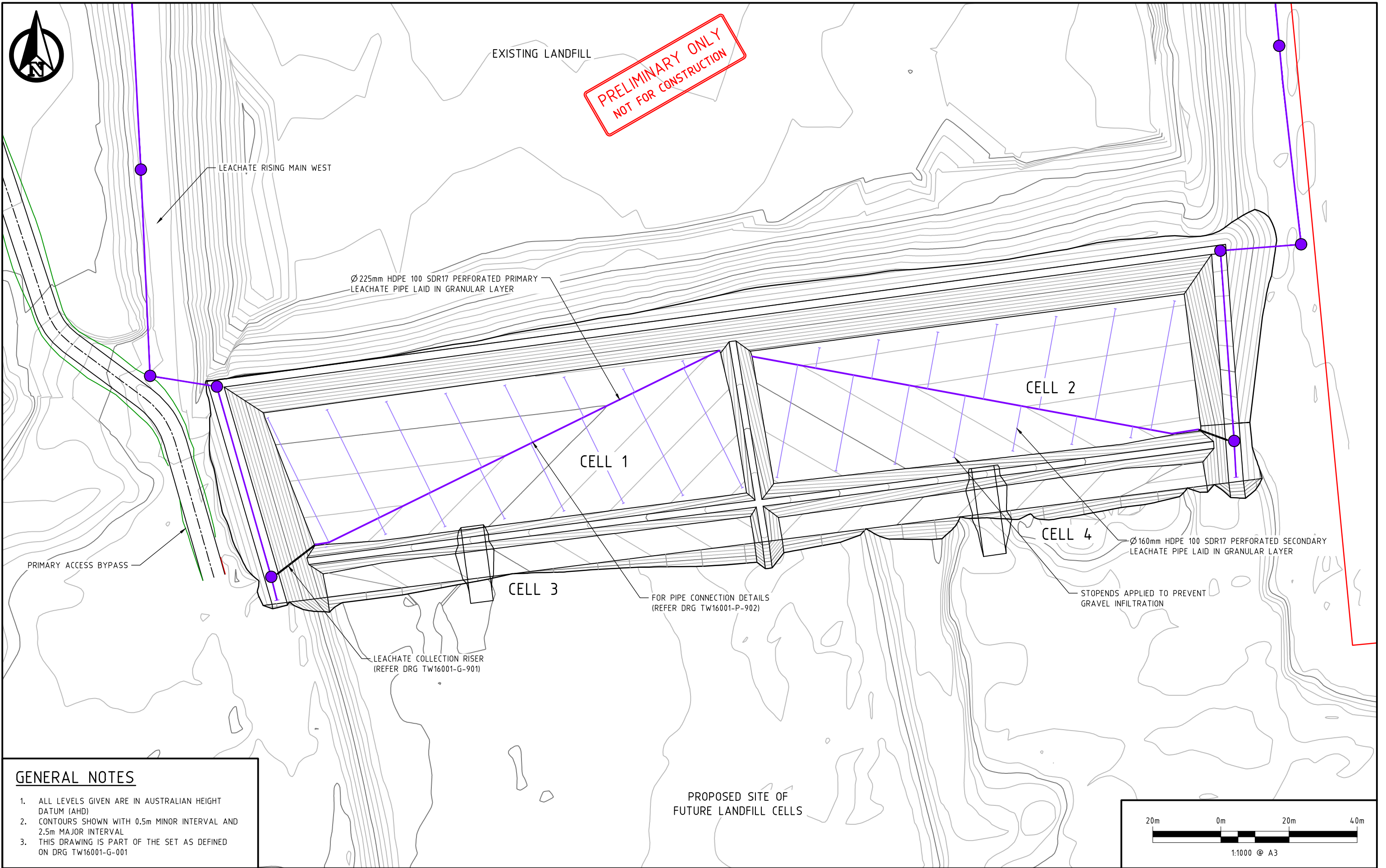
PRELIMINARY ONLY  
NOT FOR CONSTRUCTION



No.	Date	Drawn By	Amendment / Issue	App.
C	14.06.17	CDB	ADDED CELL 2	
B	04.10.16	CDB	RE-ISSUED FOR CLIENT REVIEW	
A	30.06.16	CDB	ISSUED FOR CLIENT REVIEW	


Drawn by:	CDB	Job No:	TW16001
Checked by:	LM	File No:	TW16001-G-011
Approved by:		Drg. No:	G-011
Scale:	1:4000 @ A3	Rev:	C
Date:	14.06.2017		





**GENERAL NOTES**

1. ALL LEVELS GIVEN ARE IN AUSTRALIAN HEIGHT DATUM (AHD)
2. CONTOURS SHOWN WITH 0.5m MINOR INTERVAL AND 2.5m MAJOR INTERVAL
3. THIS DRAWING IS PART OF THE SET AS DEFINED ON DRG TW16001-G-001




talisd  
delivering solutions

www.talisconsultants.com.au

ASSET MANAGEMENT  
CIVIL ENGINEERING  
ENVIRONMENTAL SERVICES  
SPATIAL INTELLIGENCE  
WASTE MANAGEMENT

Level 1 660 Newcastle Street,  
Leederville WA 6007  
PO Box 454, Leederville WA 6903

Client:



City of  
Karratha

NOTES

1. This drawing is the property of Talis Consultants Pty Ltd. It is a confidential document and must not be copied, used, or its contents divulged without prior written consent.
2. All levels refer to Australian Height Datum.
3. DO NOT SCALE, use figured dimensions only, if in doubt please contact Talis Consultants.

No.	Date	Drawn By	Amendment / Issue	App.
C	14.06.17	CDB	ADDED CELL 2	
B	04.10.16	CDB	RE-ISSUED FOR CLIENT REVIEW	
A	30.06.16	CDB	ISSUED FOR CLIENT REVIEW	

Project:

SEVEN MILE WASTE  
FACILITY - KARRATHA

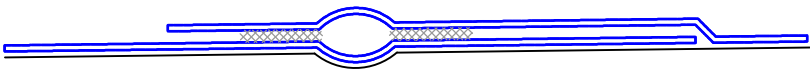
Title:

LEACHATE COLLECTION  
AND MANAGEMENT  
LANDFILL CELL 1 & 2

Drawn by:	CDB	Job No:	TW16001
Checked by:	LM	File No:	TW16001-C-002
Approved by:		Drg. No:	C-002
Scale:	1:1000 @ A3	Rev:	C
Date:	14.06.2017		

JOINT DETAIL:

JOINT BETWEEN HDPE LINER ON SIDE SLOPES AND LINER ON CELL FLOOR.  
JOINT TO BE FORMED ON CELL FLOOR  
A MINIMUM OF 1.5m IN FROM BOTTOM OF SIDE SLOPE

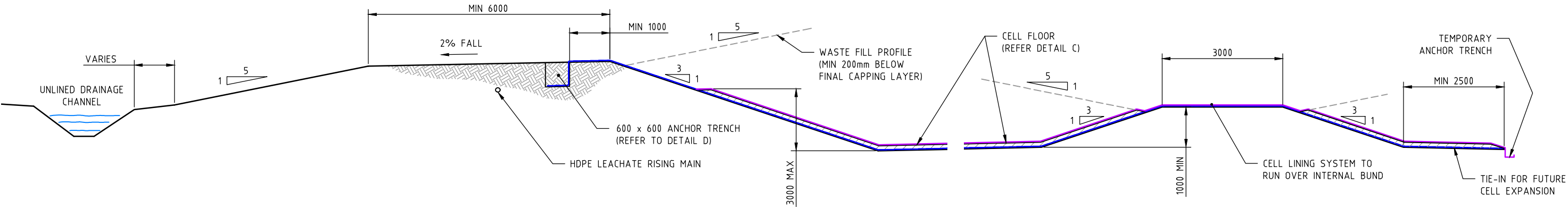


PRELIMINARY ONLY  
NOT FOR CONSTRUCTION

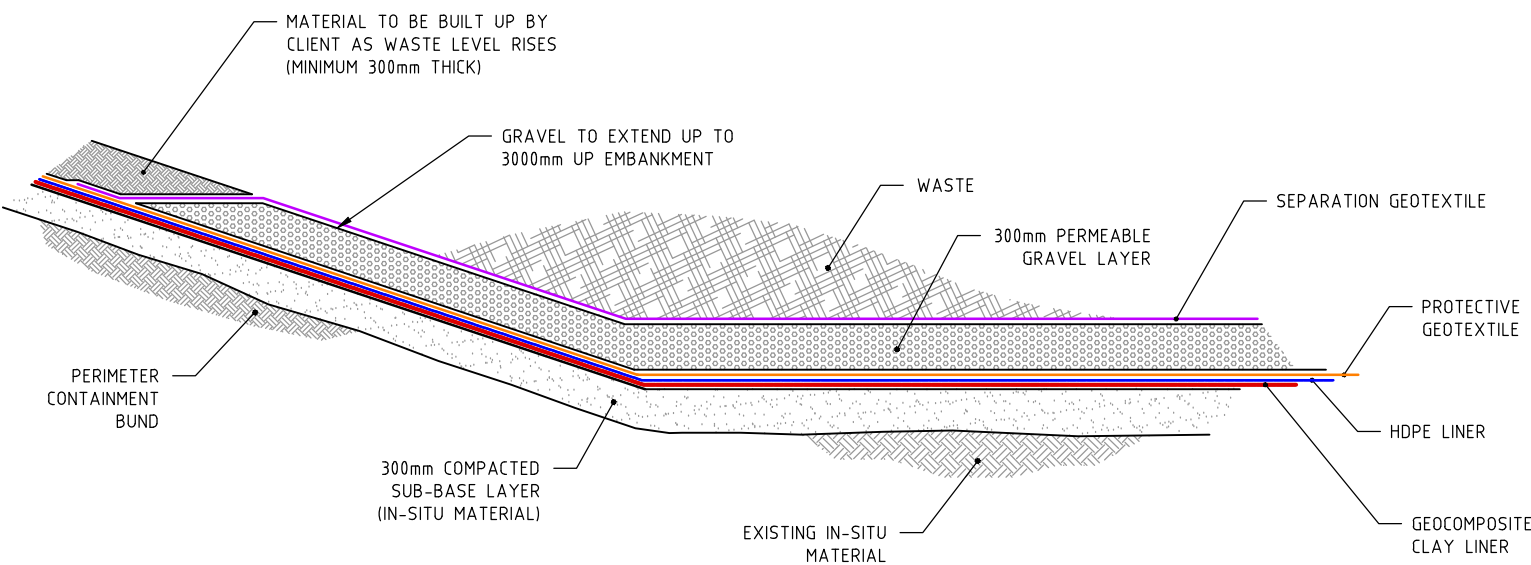
LEGEND

- LINER - HDPE (HIGH DENSITY)
- LINER - GCL (CLAY COMPOSITE)
- GEOTEXTILE - PROTECTIVE LAYER
- GEOTEXTILE - SEPARATION LAYER

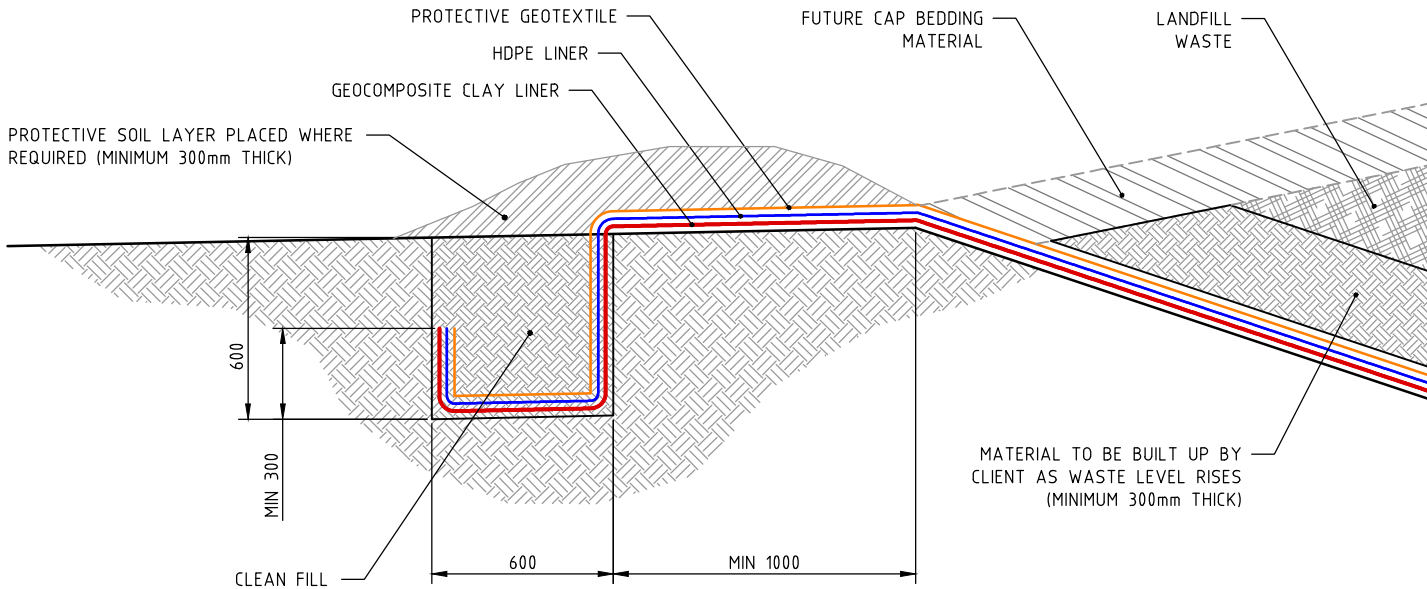
A TYPICAL DETAIL - FUSION WELD WITH TEST CHANNEL  
SCALE: NTS



B TYPICAL SECTION - CONTAINMENT BUND  
SCALE: NTS



C TYPICAL SECTION - BASAL CELL LINING  
SCALE: NTS



D TYPICAL DETAIL - ANCHOR TRENCH  
SCALE: NTS



ASSET MANAGEMENT  
CIVIL ENGINEERING  
ENVIRONMENTAL SERVICES  
SPATIAL INTELLIGENCE  
WASTE MANAGEMENT  
Level 1 660 Newcastle Street,  
Leederville WA 6007  
PO Box 454, Leederville WA 6903



NOTES

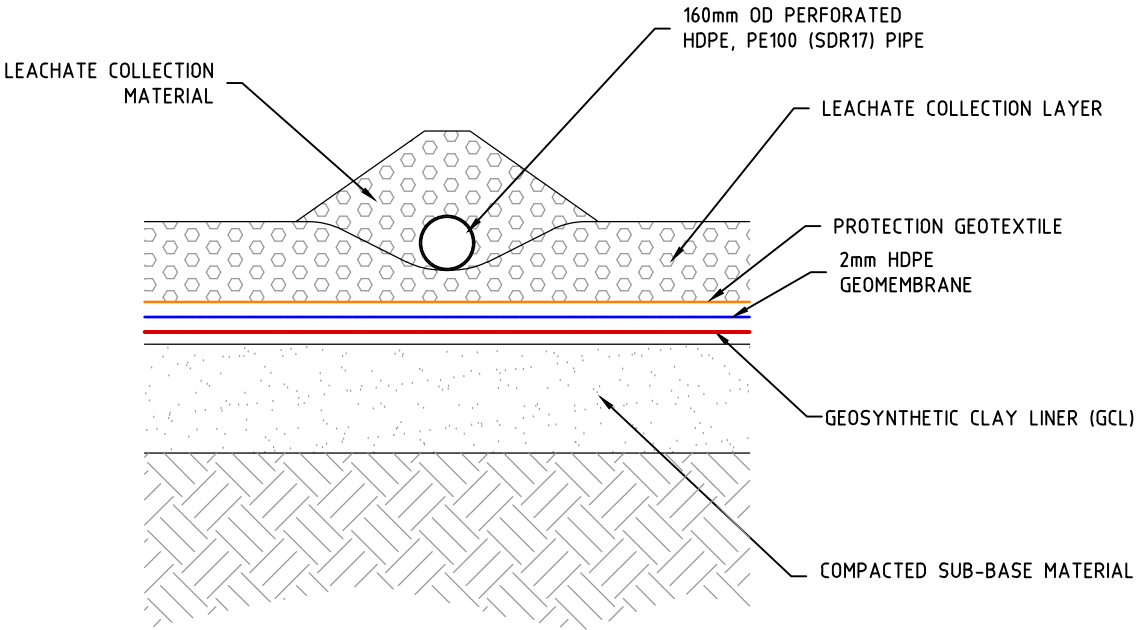
- This drawing is the property of Talis Consultants Pty Ltd. It is a confidential document and must not be copied, used, or its contents divulged without prior written consent.
- All levels refer to Australian Height Datum.
- DO NOT SCALE, use figured dimensions only, if in doubt please contact Talis Consultants.

No.	Date	Amendment / Issue	App.
C	14.06.17	GR LN	LEACHATE COLLECTION MATERIALS
B	04.10.16	GR LN	RE-ISSUED FOR CLIENT REVIEW
A	15.07.16	GR LN	ISSUED FOR CLIENT REVIEW

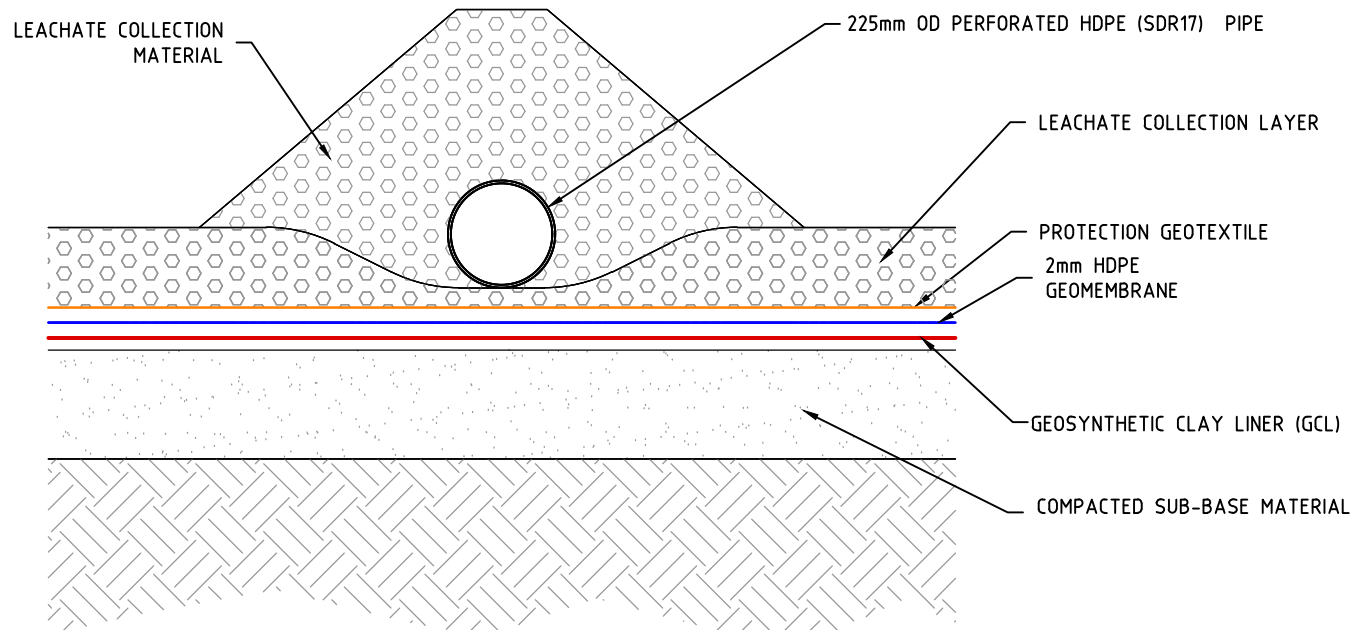
Project: SEVEN MILE WASTE FACILITY - KARRATHA

Title: BUND AND BASAL LINING DETAILS

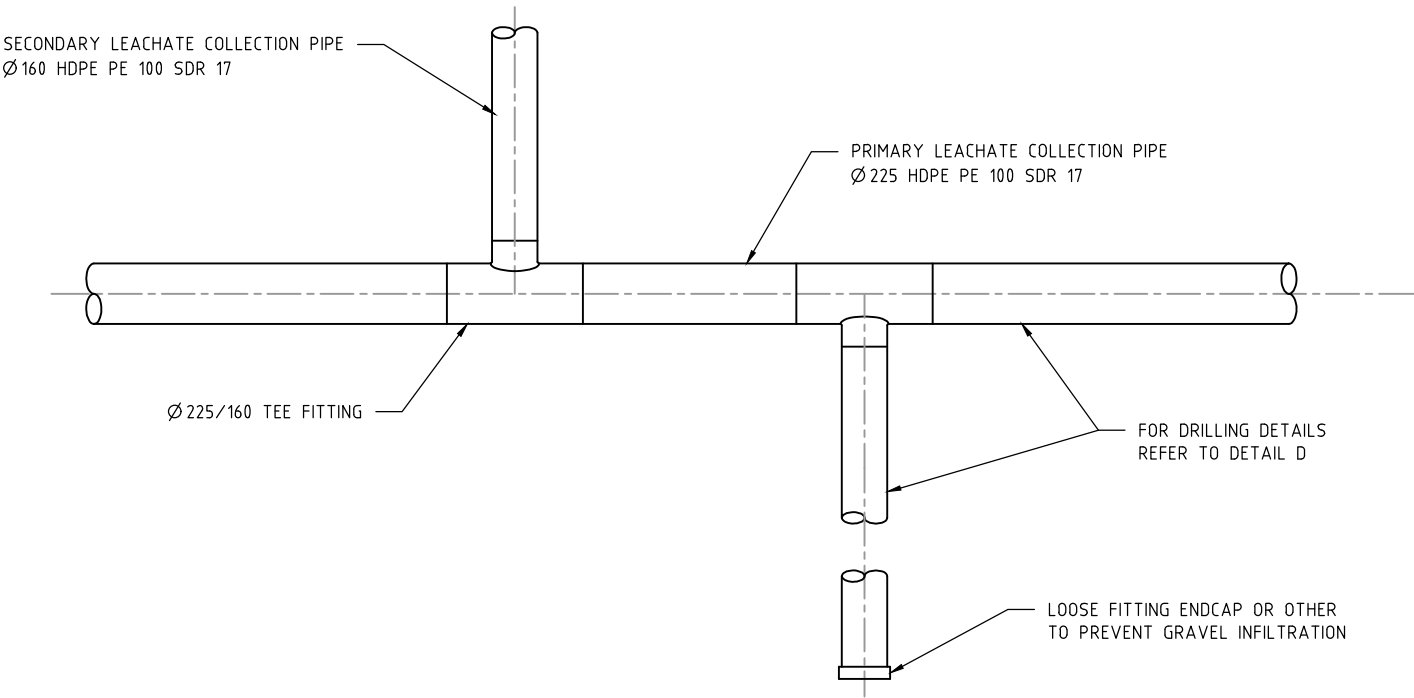
Drawn by:	CDB	Job No:	TW16001
Checked by:	LM	File No:	TW16001-G-902
Approved by:		Org. No:	G-902
Scale:	NTS	Rev:	C
Date:	14.06.17		



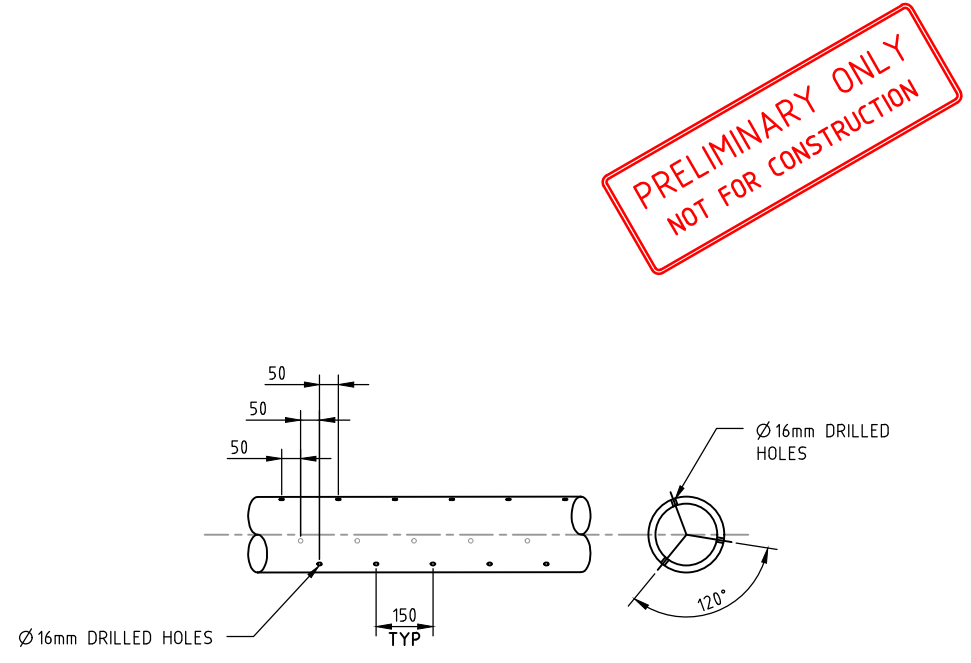
**A** TYPICAL SECTION THROUGH SECONDARY LEACHATE DRAIN  
SCALE: NTS



**B** TYPICAL SECTION THROUGH PRIMARY LEACHATE DRAIN  
SCALE: NTS



**C** TYPICAL DETAIL - LEACHATE COLLECTION PIPES  
SCALE: NTS



**D** TYPICAL SECTION - LEACHATE COLLECTION DRILLING  
SCALE: NTS

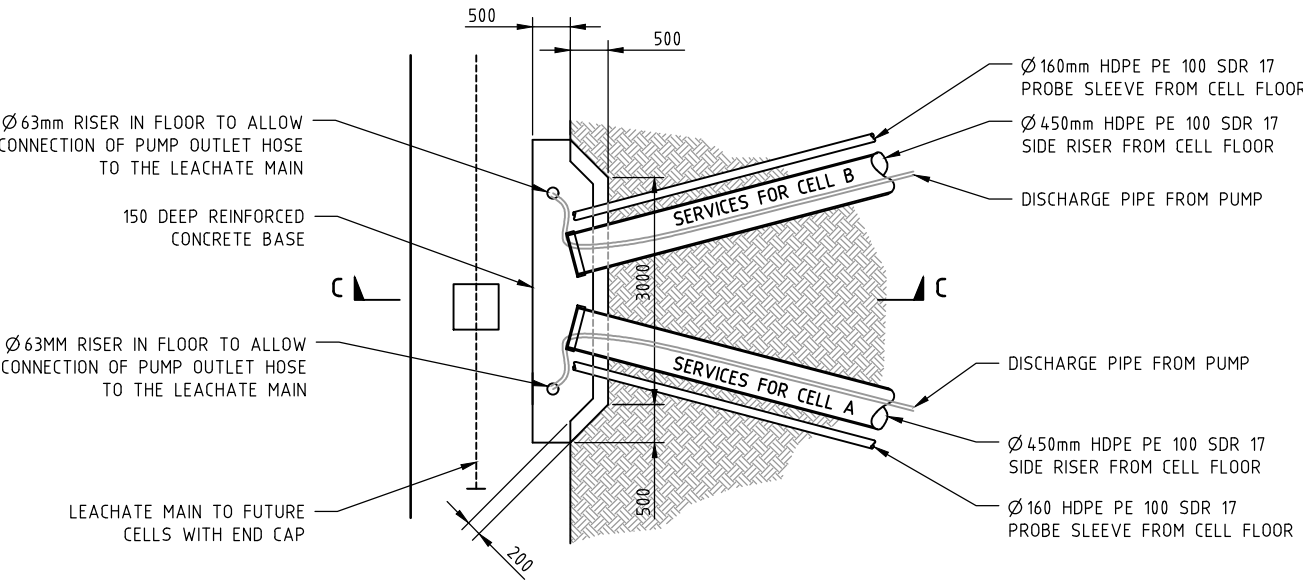
**PRELIMINARY ONLY  
NOT FOR CONSTRUCTION**



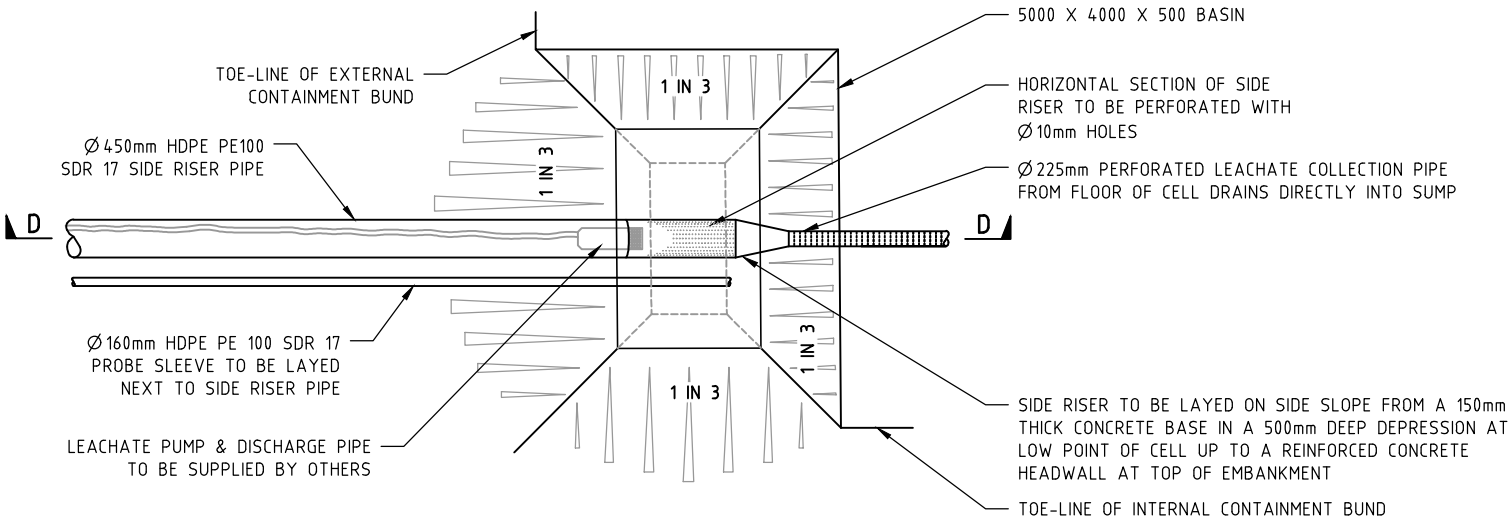
PRELIMINARY ONLY  
NOT FOR CONSTRUCTION

LEGEND

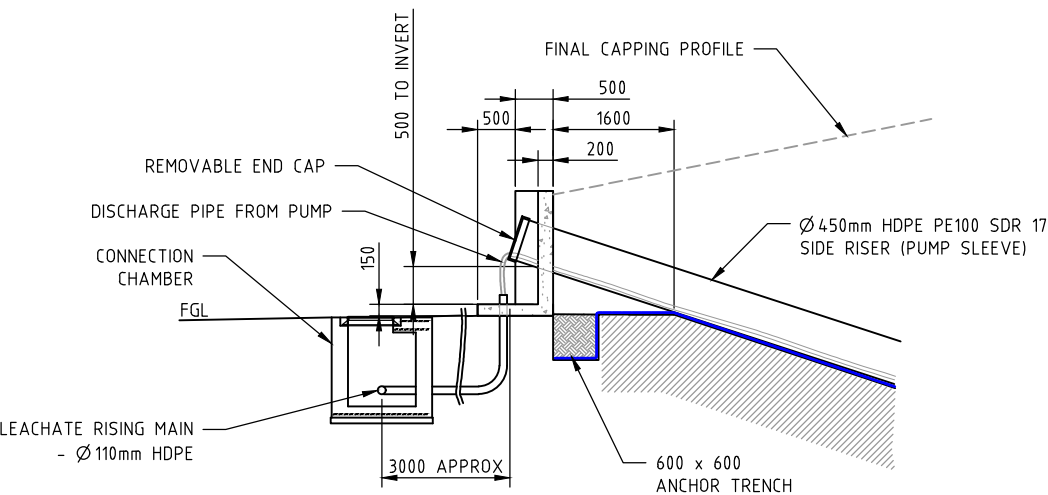
- LINER - HDPE (HIGH DENSITY)
- LINER - GCL (CLAY COMPOSITE)
- GEOTEXTILE - PROTECTIVE LAYER
- GEOTEXTILE - SEPARATION LAYER



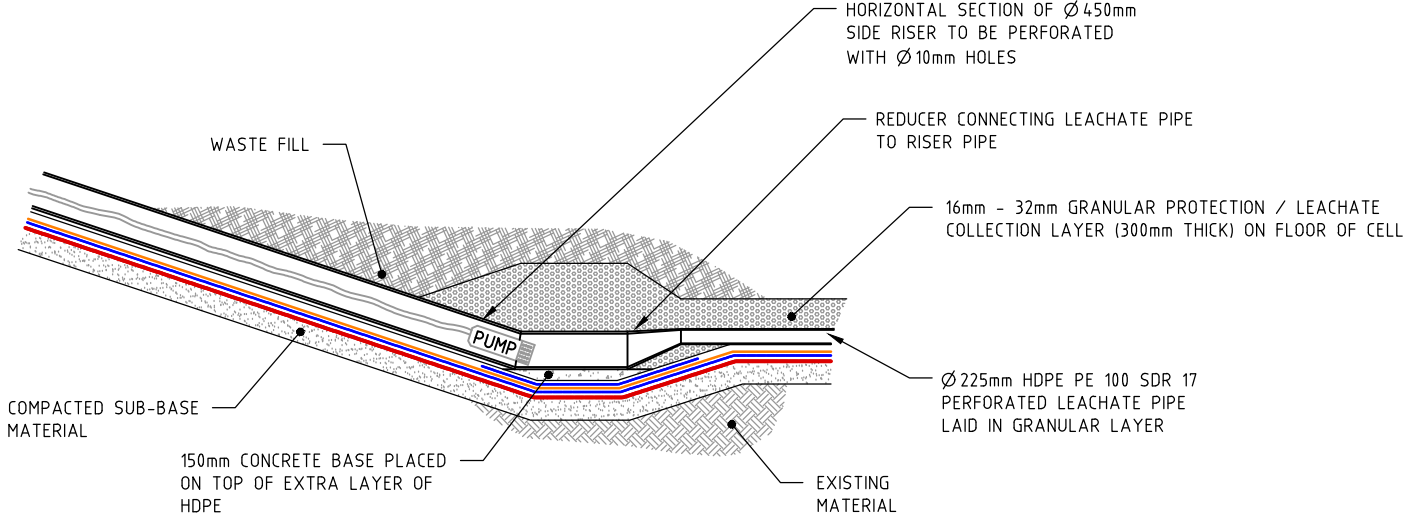
A TYPICAL PLAN - SIDE RISER HEADWALL  
SCALE: NTS



B TYPICAL PLAN - LEACHATE COLLECTION SUMP  
SCALE: NTS



C TYPICAL SECTION - SIDE RISER HEADWALL  
SCALE: NTS



D TYPICAL SECTION - LEACHATE COLLECTION SUMP  
SCALE: NTS



ASSET MANAGEMENT  
CIVIL ENGINEERING  
ENVIRONMENTAL SERVICES  
SPATIAL INTELLIGENCE  
WASTE MANAGEMENT  
Level 1 660 Newcastle Street,  
Leederville WA 6007  
PO Box 454, Leederville WA 6903



NOTES  
1. This drawing is the property of Talis Consultants Pty Ltd. It is a confidential document and must not be copied, used, or its contents divulged without prior written consent.  
2. All levels refer to Australian Height Datum.  
3. DO NOT SCALE, use figured dimensions only, if in doubt please contact Talis Consultants.

No.	Date	Drawn By	Checked By	Amendment / Issue	App.
B	04.10.16	CDB	LM	RE-ISSUED FOR CLIENT REVIEW	
A	14.06.16	CDB	SC	ISSUED FOR CLIENT REVIEW	

Project: SEVEN MILE WASTE FACILITY - KARRATHA

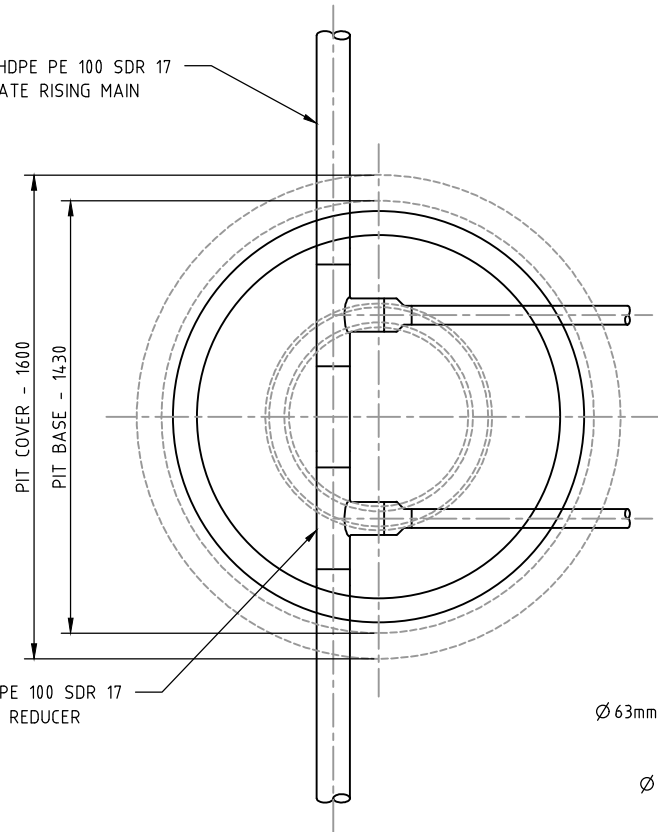
Title: LEACHATE COLLECTION SUMP AND EXTRACTION DETAILS

Drawn by:	CDB	Job No:	TW16001
Checked by:	LM	File No:	TW16001-G-901
Approved by:		Drg. No:	G-901
Scale:	NTS	Rev:	B
Date:	04.10.2016		



Ø 110/110mm HDPE PE 100 SDR 17  
TEE WITH Ø 110/63 REDUCER

Ø 110 HDPE PE 100 SDR 17  
LEACHATE RISING MAIN



A

TYPICAL LEACHATE RISING MAIN CONNECTION  
SCALE: NTS

Ø 63mm NUT AND TAIL COUPLING  
Ø 63mm NON-RETURN VALVE

TRAFFICABLE PIT COVER  
WITH ACCESS LID SIMILAR  
TO ROCLA MRWARTC

MORTAR FILLET ALL AROUND  
Ø 1200 PIT SIMILAR TO ROCLA  
CPO PIT CP1200600A

COMPACTED BEDDING  
OF INSITU MATERIAL

PIT BASE PLATE SIMILAR TO  
ROCLA PIT BASE PB1200

CONCRETE HEAD WALL FOR SIDE RISER  
(REFER TO TW16001-G-901)

Ø 63mm HDPE PE 100 SDR 17  
RISER

90° ELBOW FITTING

C

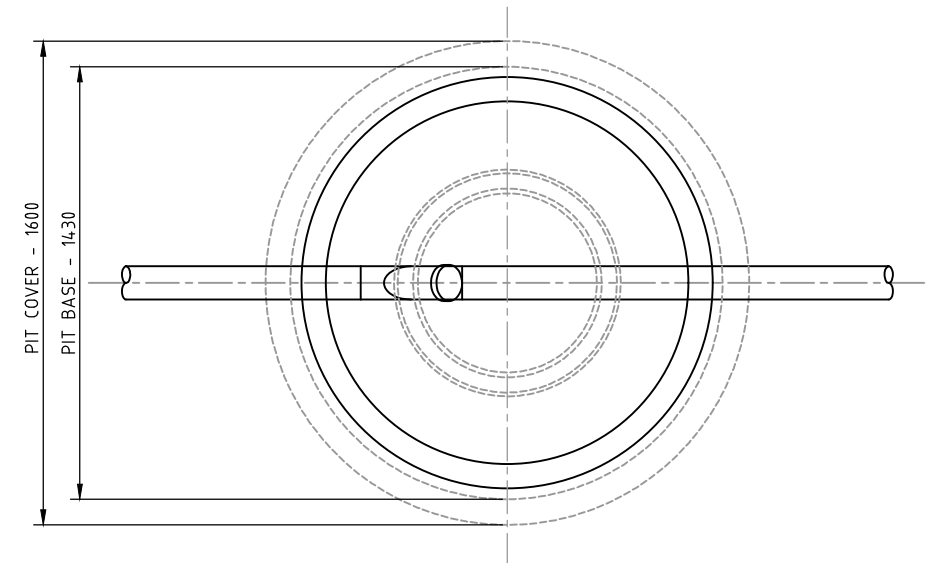
TYPICAL DETAIL - LEACHATE RISING MAIN TRENCHING  
SCALE: NTS

BACKFILL WITH EXCAVATED  
MATERIAL AND COMPACT

BEDDING SAND AS  
PER SPECIFICATION

Ø 100 SERVICE CONDUITS

Ø 110 HDPE PE 100 SDR 17  
LEACHATE RISING MAIN



Ø 1200 PIT SIMILAR TO ROCLA  
CPO PIT CP1200600A

45° TEE USED AS  
RODDING POINT

COMPACTED BEDDING  
OF INSITU MATERIAL

PIT BASE PLATE SIMILAR TO  
ROCLA PIT BASE PB1200

MORTAR FILLET  
ALL AROUND  
REMOVABLE  
ACCESS CAP

TRAFFICABLE PIT COVER  
WITH ACCESS LID SIMILAR  
TO ROCLA MRWARTC

B

TYPICAL LEACHATE MAIN RODDING POINT  
SCALE: NTS

PRELIMINARY ONLY  
NOT FOR CONSTRUCTION

NOTES

1. This drawing is the property of Talis Consultants Pty Ltd. It is a confidential document and must not be copied, used, or its contents divulged without prior written consent.
2. All levels refer to Australian Height Datum.
3. DO NOT SCALE, use figured dimensions only, if in doubt please contact Talis Consultants.

No.	Date	Drawn By	Amendment / Issue	App.
C	14.06.17	GR/LH	ADDED SERVICE CONDUITS	
B	04.10.16	GR/LH	RE-ISSUED FOR CLIENT REVIEW	
A	15.07.16	GR/LH	ISSUED FOR CLIENT REVIEW	

Project:	SEVE MILE WASTE FACILITY - KARRATHA
----------	-------------------------------------

Title:	LEACHATE RISING MAIN PIPING DETAILS
--------	-------------------------------------

Drawn by:	CDB	Job No:	TW16001
Checked by:	LM	File No:	TW16001-P-901
Approved by:		Dr. No:	P-901
Scale:	NTS	Rev:	C
Date:	14.06.2017		