

**SURVEY NOTES:**

- GRID COORDINATE SYSTEM IN USE MGA 94 255. HEIGHT DATUM: AHD
- IMAGES FROM CLIENT SUPPLIED FILES:
  - BACKGROUND IMAGE "20210522-KP3A-CGG-AUS-PS4-L3" DATED 22.05.2021
  - BACKGROUND IMAGE FROM LIDER TILES SURVEYED 2020
  - BOMBAY TSF AND NEW TSF (BRUNSWICK WEST) "Bombay\_Dam\_Costerfield\_29\_Mar\_2022\_Aerial\_Survey\_Bombay\_Dam\_Costerfield\_22\_3\_29\_Aerial\_Mosaic" DATED 29.03.2022
  - BRUNSWICK TSF "Brunswick\_Dam\_Costerfield\_20\_May\_2022\_Aerial\_Survey\_Brunswick\_Dam\_Costerfield\_22\_5\_20\_Aerial\_Mosaic" DATED 20.05.2022

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**MANDALAY RESOURCES COSTERFIELD OPERATIONS**  
**COSTERFIELD GOLD MINE**

**BRUNSWICK WEST TAILINGS STORAGE FACILITY**  
**COSTERFIELD GOLD MINE LOCALITY PLAN**

DWG. No. **FIGURE 1**

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**SURVEY NOTES:**

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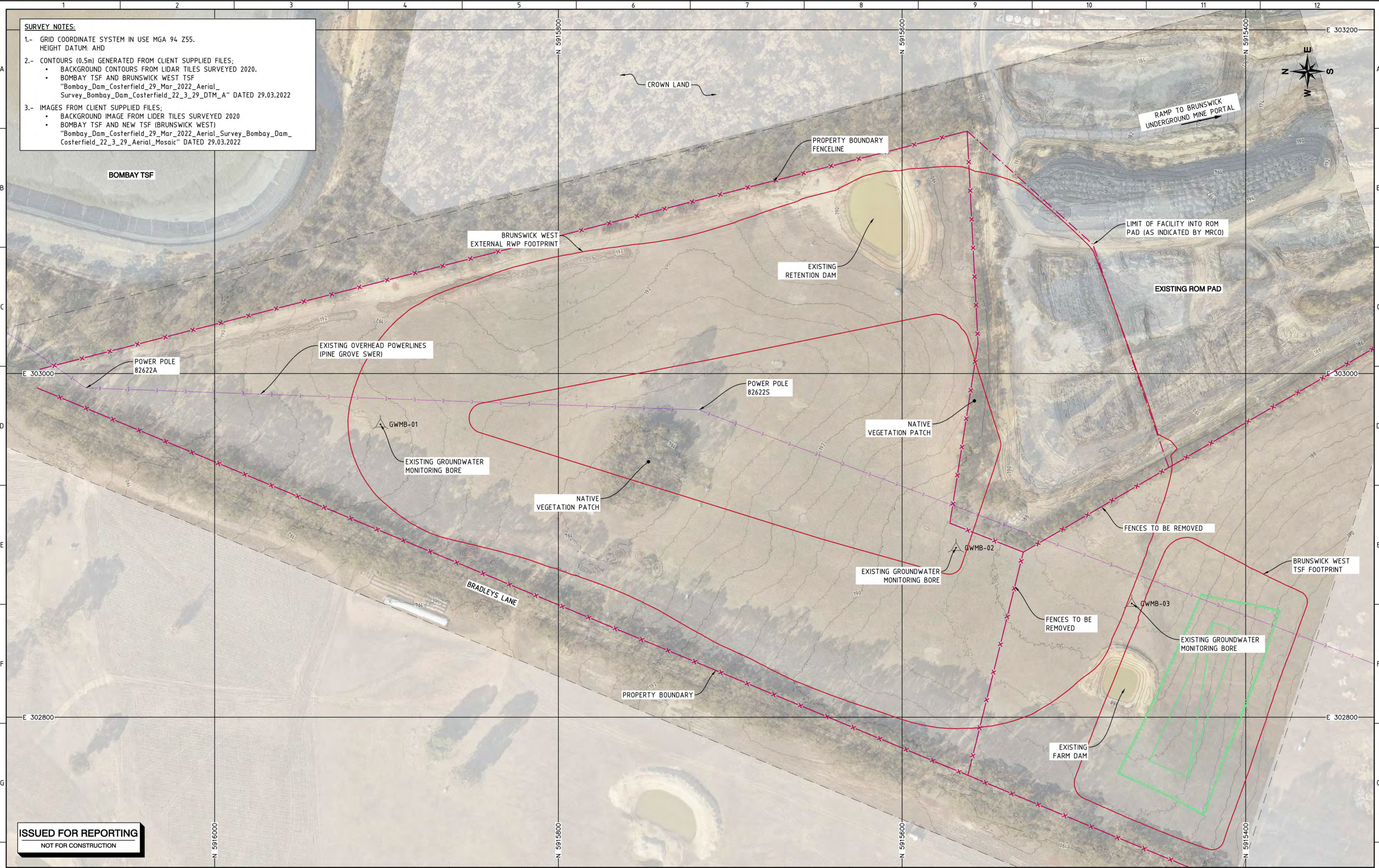
DWG. No.	FIGURE 2		
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**COSTERFIELD GOLD MINE**  
**BRUNSWICK WEST TAILINGS STORAGE FACILITY**  
**EXISTING CONDITIONS**

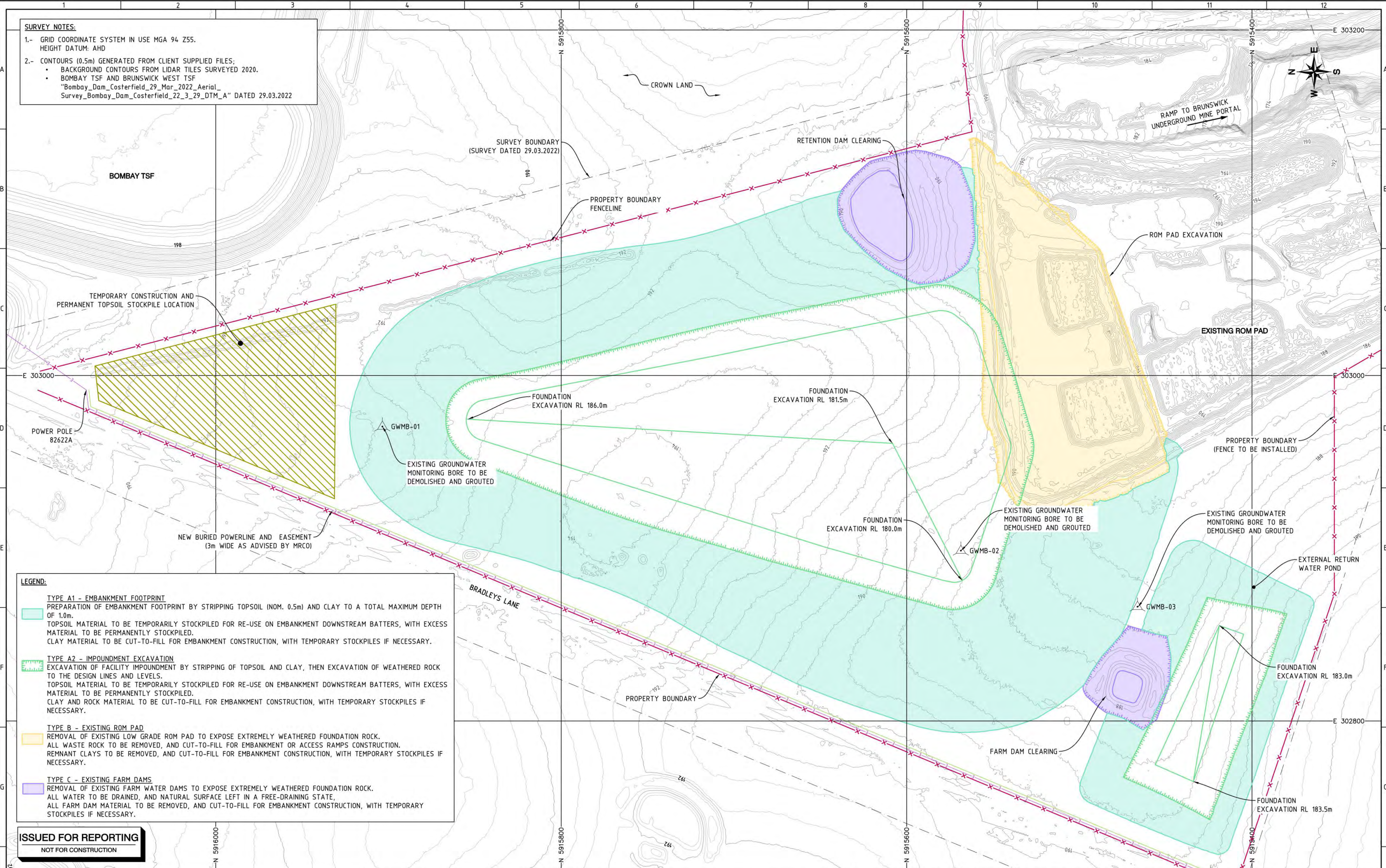
DWG. No. **FIGURE 3**  
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**LEGEND:**

**TYPE A1 - EMBANKMENT FOOTPRINT**  
PREPARATION OF EMBANKMENT FOOTPRINT BY STRIPPING TOPSOIL (NOM. 0.5m) AND CLAY TO A TOTAL MAXIMUM DEPTH OF 1.0m.  
TOPSOIL MATERIAL TO BE TEMPORARILY STOCKPILED FOR RE-USE ON EMBANKMENT DOWNSTREAM BATTERS, WITH EXCESS MATERIAL TO BE PERMANENTLY STOCKPILED.  
CLAY MATERIAL TO BE CUT-TO-FILL FOR EMBANKMENT CONSTRUCTION, WITH TEMPORARY STOCKPILES IF NECESSARY.

**TYPE A2 - IMPOUNDMENT EXCAVATION**  
EXCAVATION OF FACILITY IMPOUNDMENT BY STRIPPING OF TOPSOIL AND CLAY, THEN EXCAVATION OF WEATHERED ROCK TO THE DESIGN LINES AND LEVELS.  
TOPSOIL MATERIAL TO BE TEMPORARILY STOCKPILED FOR RE-USE ON EMBANKMENT DOWNSTREAM BATTERS, WITH EXCESS MATERIAL TO BE PERMANENTLY STOCKPILED.  
CLAY AND ROCK MATERIAL TO BE CUT-TO-FILL FOR EMBANKMENT CONSTRUCTION, WITH TEMPORARY STOCKPILES IF NECESSARY.

**TYPE B - EXISTING ROM PAD**  
REMOVAL OF EXISTING LOW GRADE ROM PAD TO EXPOSE EXTREMELY WEATHERED FOUNDATION ROCK.  
ALL WASTE ROCK TO BE REMOVED, AND CUT-TO-FILL FOR EMBANKMENT OR ACCESS RAMPS CONSTRUCTION.  
REMNANT CLAYS TO BE REMOVED, AND CUT-TO-FILL FOR EMBANKMENT CONSTRUCTION, WITH TEMPORARY STOCKPILES IF NECESSARY.

**TYPE C - EXISTING FARM DAMS**  
REMOVAL OF EXISTING FARM WATER DAMS TO EXPOSE EXTREMELY WEATHERED FOUNDATION ROCK.  
ALL WATER TO BE DRAINED, AND NATURAL SURFACE LEFT IN A FREE-DRAINING STATE.  
ALL FARM DAM MATERIAL TO BE REMOVED, AND CUT-TO-FILL FOR EMBANKMENT CONSTRUCTION, WITH TEMPORARY STOCKPILES IF NECESSARY.

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**FOUNDATION PREPARATION PLAN**

DWG. No. **FIGURE 4**

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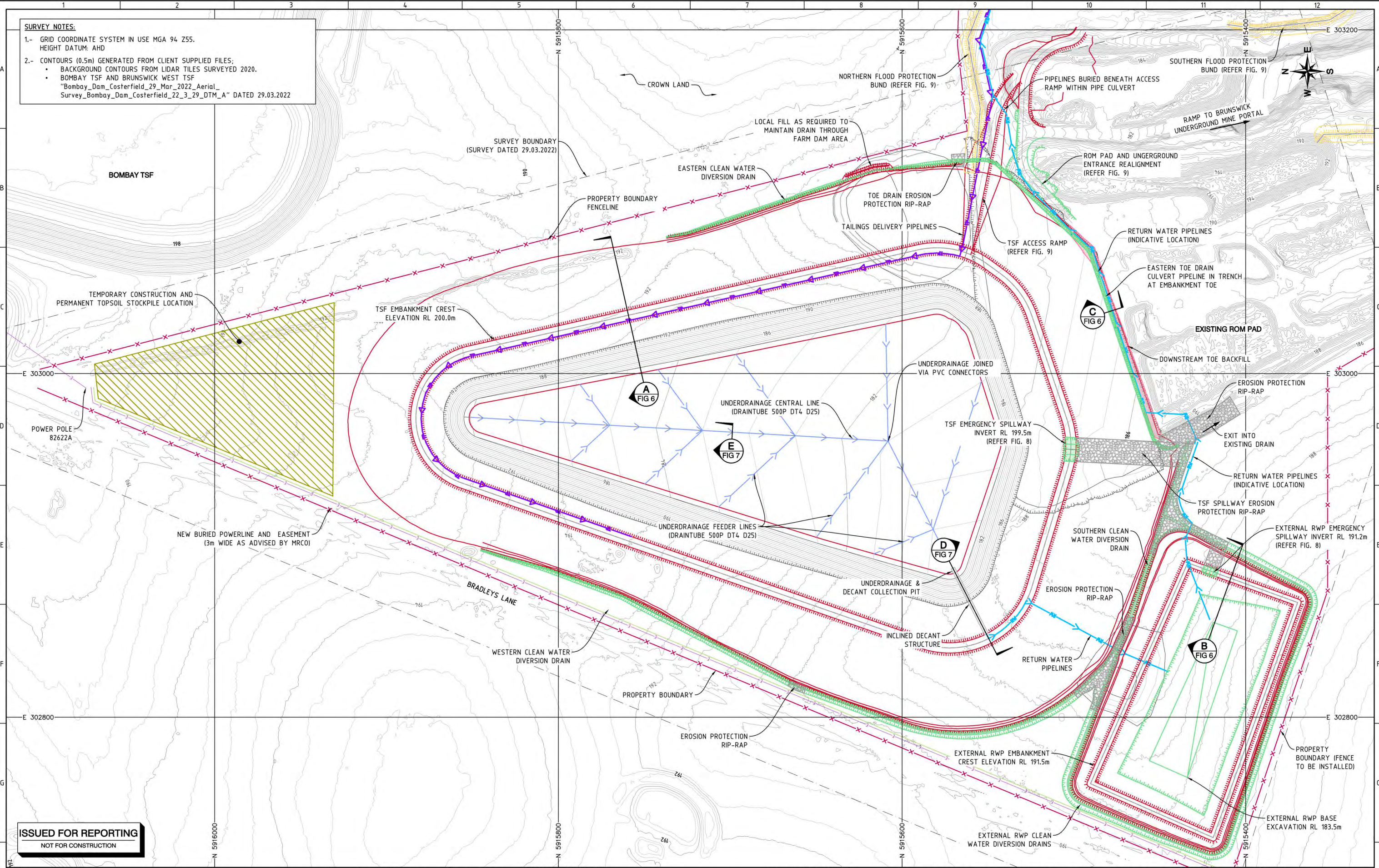
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**EMBANKMENT LAYOUT PLAN**

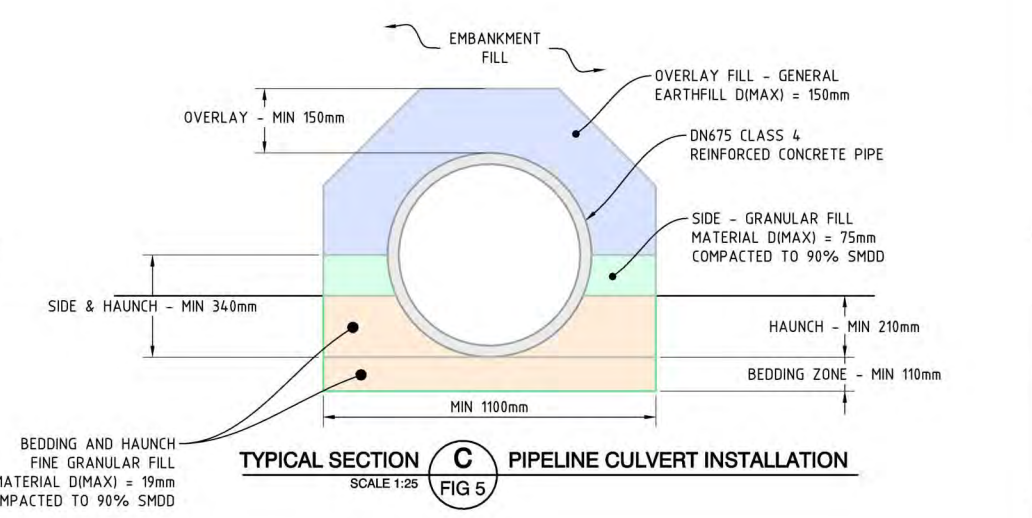
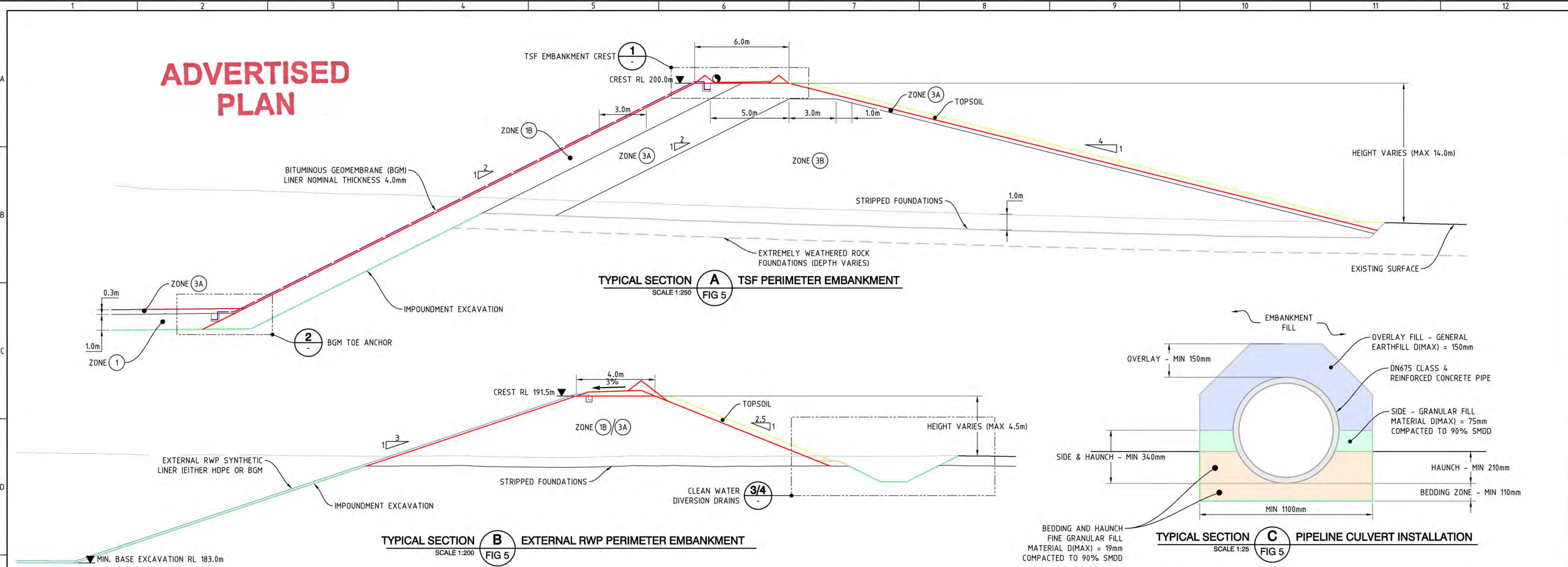
DWG. No. **FIGURE 5**  
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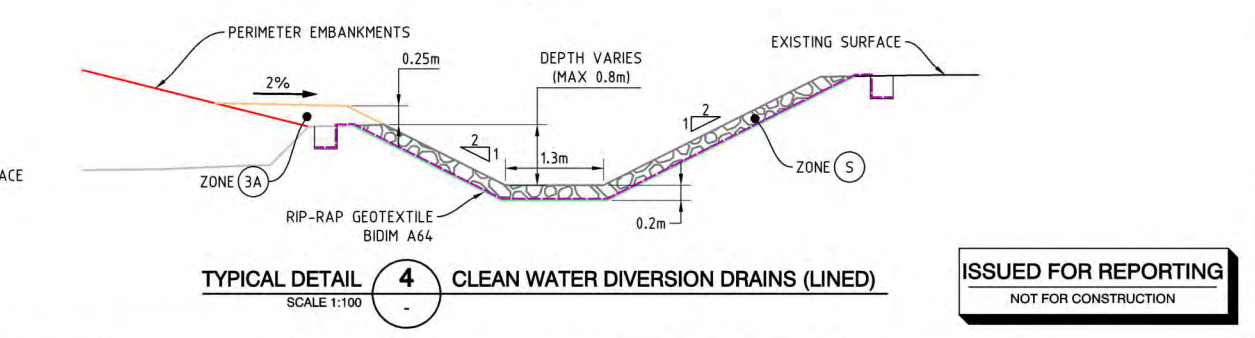
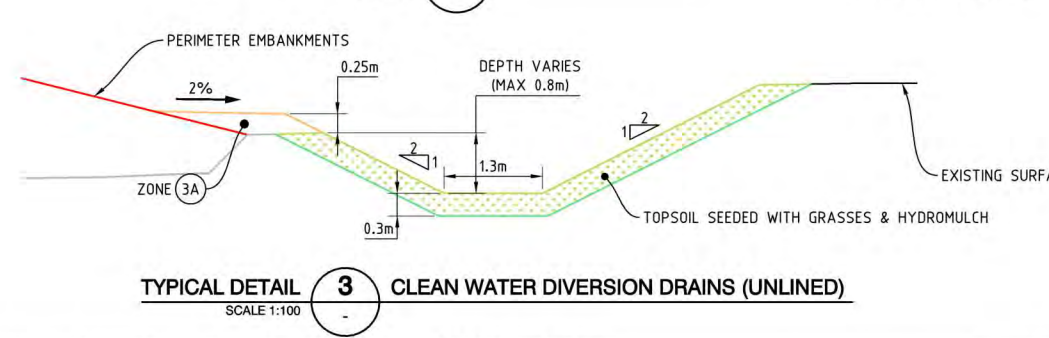
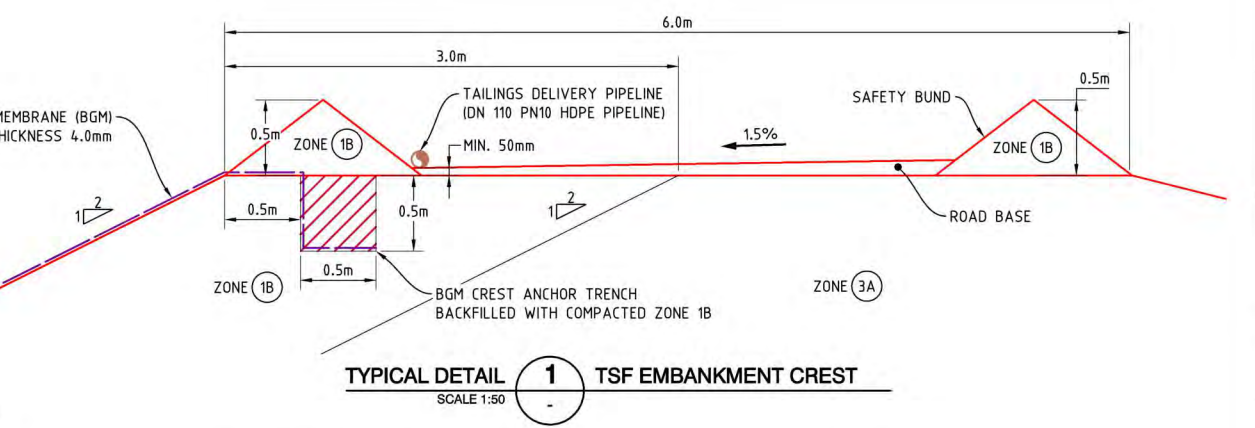
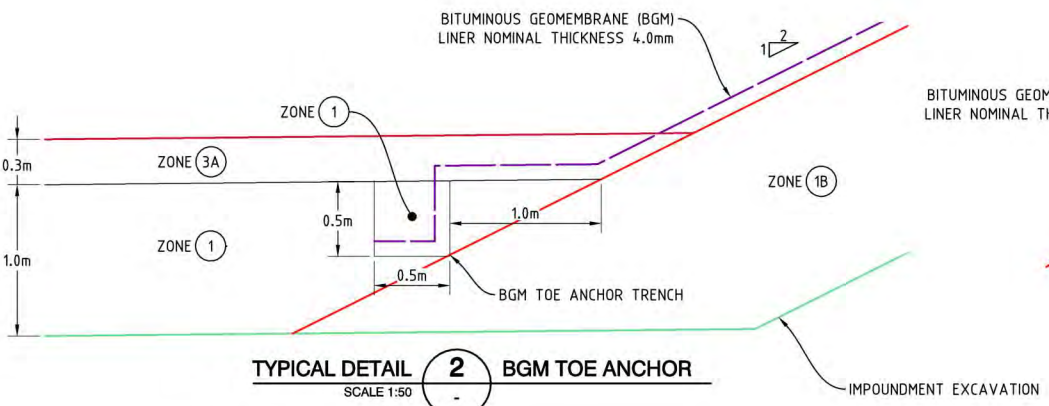
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MATERIAL ZONE DESCRIPTIONS	
ZONE	DESCRIPTION
1	COMPACTED CLAY LINER. GRAVELLY CLAY. MATERIAL WON FROM IMPOUNDMENT EXCAVATION AND EMBANKMENT FOUNDATION STRIPPING. MATERIAL PLACED IN 250mm (LOOSE) LAYERS AND COMPACTED TO MIN. 98% STANDARD COMPACTION AND -2% TO +2% OMC
1B	BGM EARTHFILL SUBGRADE. GRAVELLY CLAY TO CLAYEY GRAVEL. MATERIAL WON FROM IMPOUNDMENT EXCAVATION AND EMBANKMENT FOUNDATION STRIPPING. MATERIAL PLACED IN 300mm (LOOSE) LAYERS AND COMPACTED TO MIN. 98% STANDARD COMPACTION. BATTER SLOPE WITH MAXIMUM ASPERITIES OF LESS THAN 30mm
3A	TRANSITION FILL. RESIDUAL, EXTREMELY & HIGHLY WEATHERED SILTSTONE, WITH GRAVELS, SAND AND CLAYS. MATERIAL WON FROM UPPER IMPOUNDMENT EXCAVATION INTO ROCK. MATERIAL PLACED IN 300mm (LOOSE) LAYERS AND COMPACTED WITH VIBRATORY PADFOOT ROLLER (CONTRACTOR TO DETERMINE EQUIPMENT SIZING AND NUMBER OF PASSES WITH FIELD TRIALS)
3B	ROCKFILL. HIGHLY TO SLIGHTLY WEATHERED SILTSTONE, WITH GRAVELS AND SANDS. MATERIAL WON FROM LOWER IMPOUNDMENT EXCAVATION INTO ROCK, AND FROM STOCKPILE WHERE REQUIRED. MATERIAL PLACED IN 600mm (LOOSE) LAYERS AND COMPACTED WITH VIBRATORY PADFOOT ROLLER (CONTRACTOR TO DETERMINE EQUIPMENT SIZING AND NUMBER OF PASSES WITH FIELD TRIALS)
S	EROSION PROTECTION RIP-RAP. MODERATELY WEATHERED TO FRESH ROCK. MATERIAL SCREENED FROM ZONE 3B MATERIAL. PLACED LOOSE IN A SINGLE LAYER WITHIN EXCAVATION



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**BRUNSWICK WEST TAILINGS STORAGE FACILITY**  
**EMBANKMENT SECTIONS AND DETAILS**

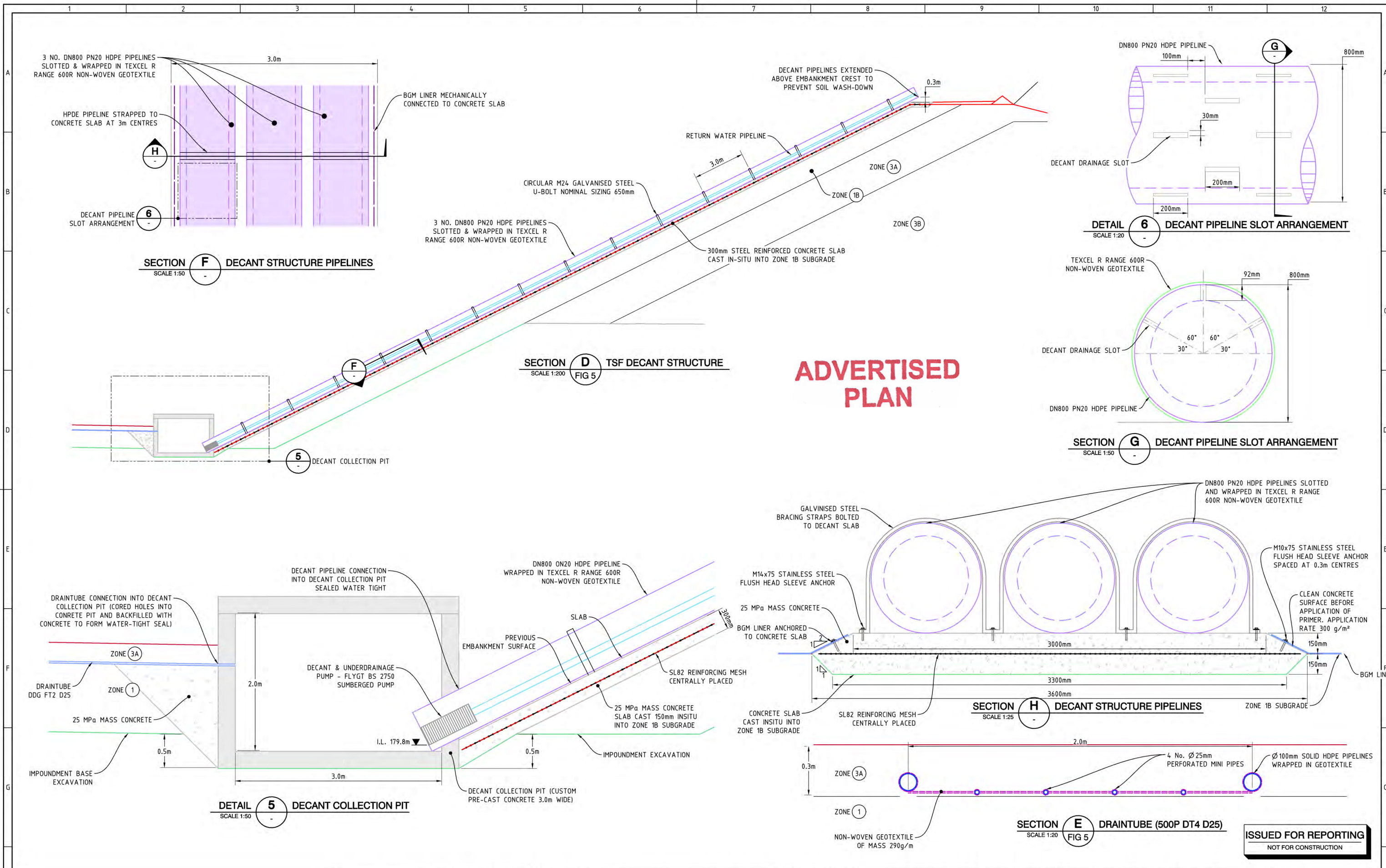
DWG. No. **FIGURE 6**

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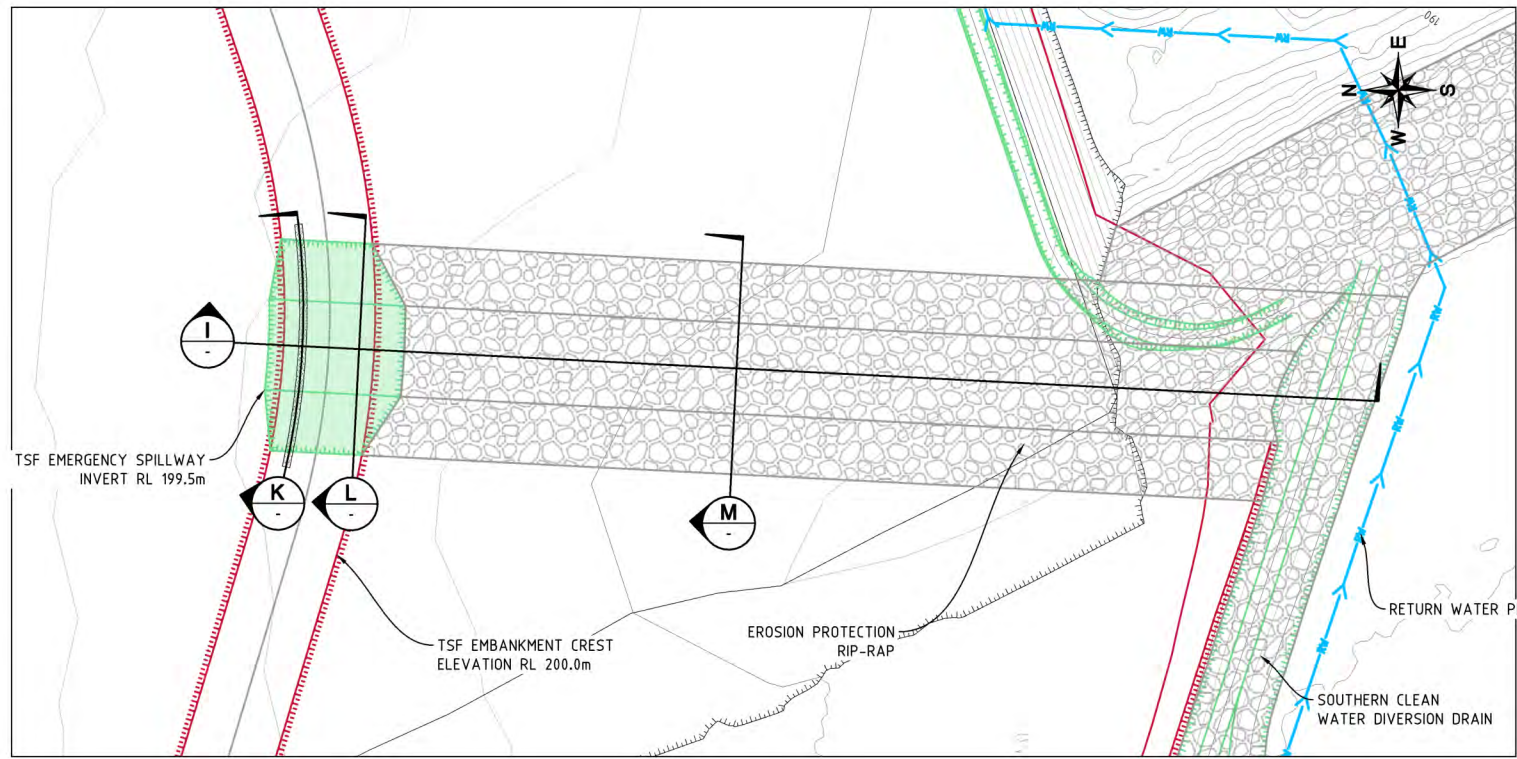
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**DECANT STRUCTURE SECTIONS AND DETAILS**

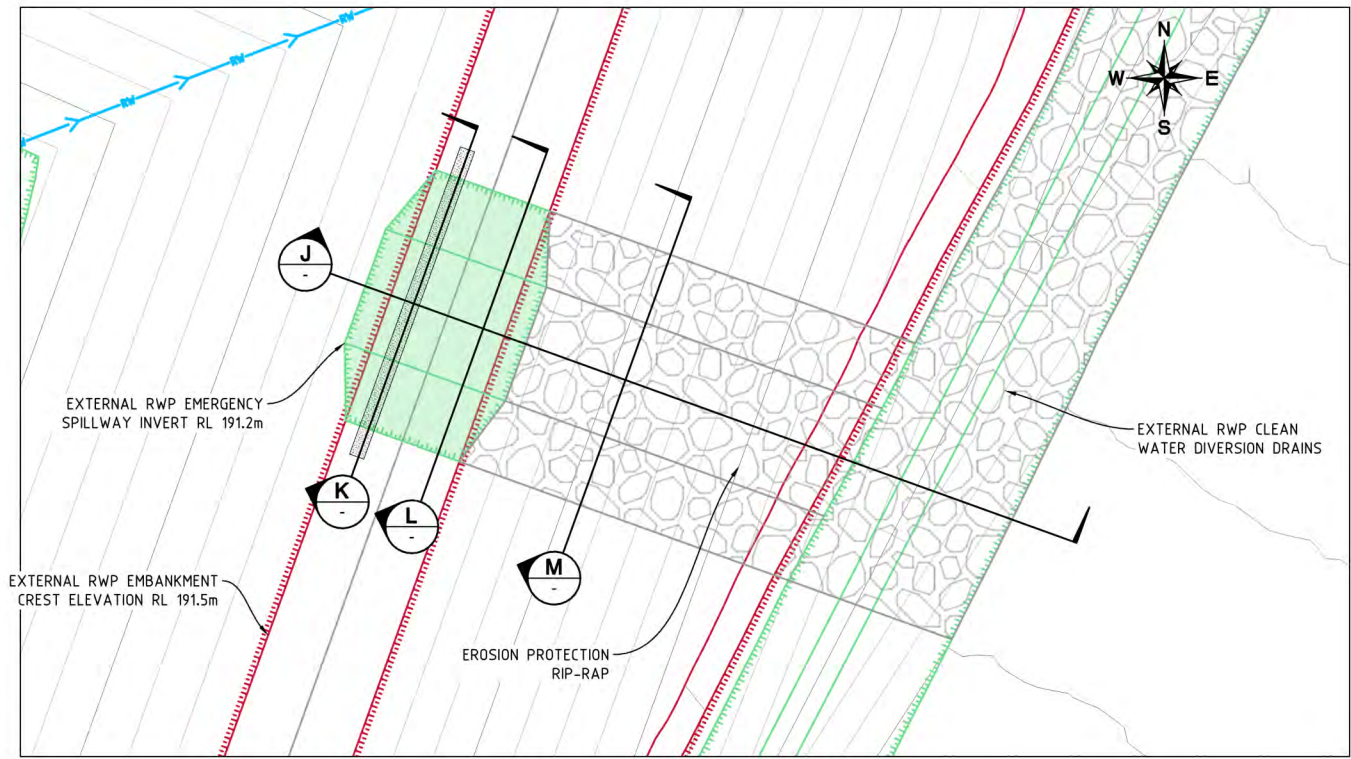
DWG. No. **FIGURE 7**

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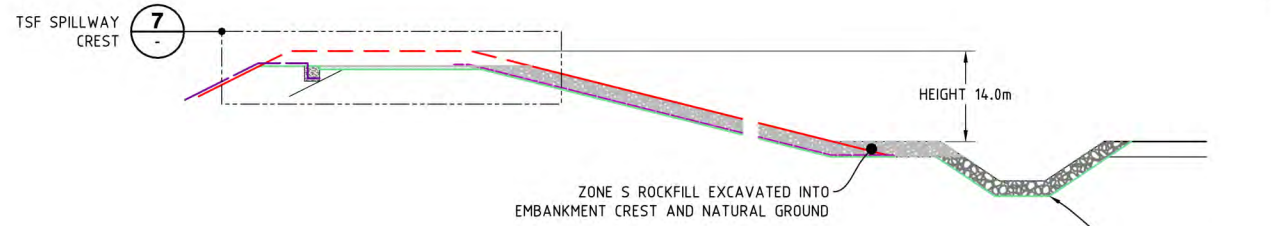




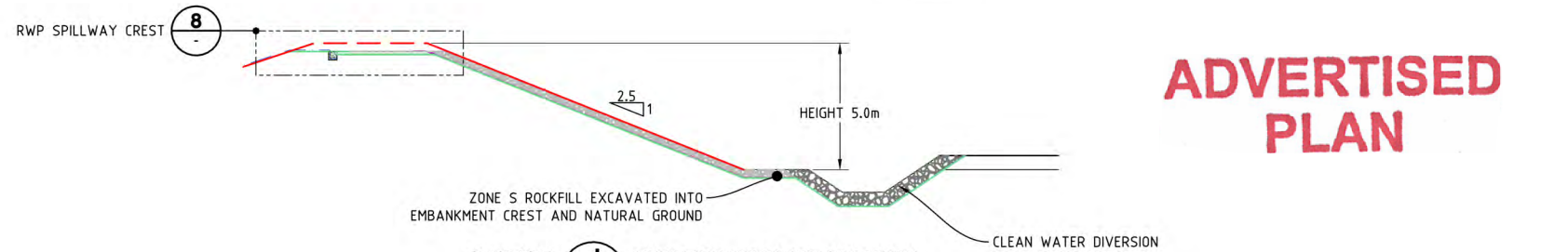
**TSF EMERGENCY SPILLWAY**  
SCALE 1:500



**EXTERNAL RWP EMERGENCY SPILLWAY**  
SCALE 1:250

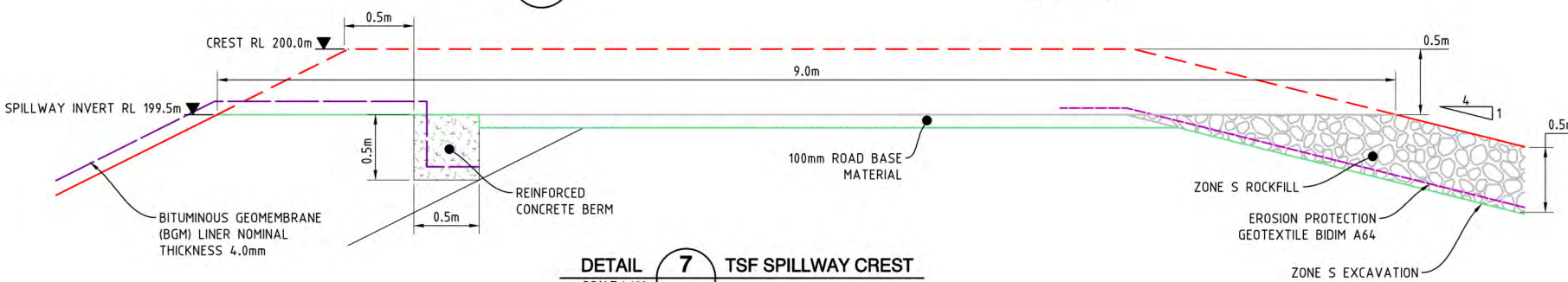


**SECTION I TSF EMBANKMENT SPILLWAY**  
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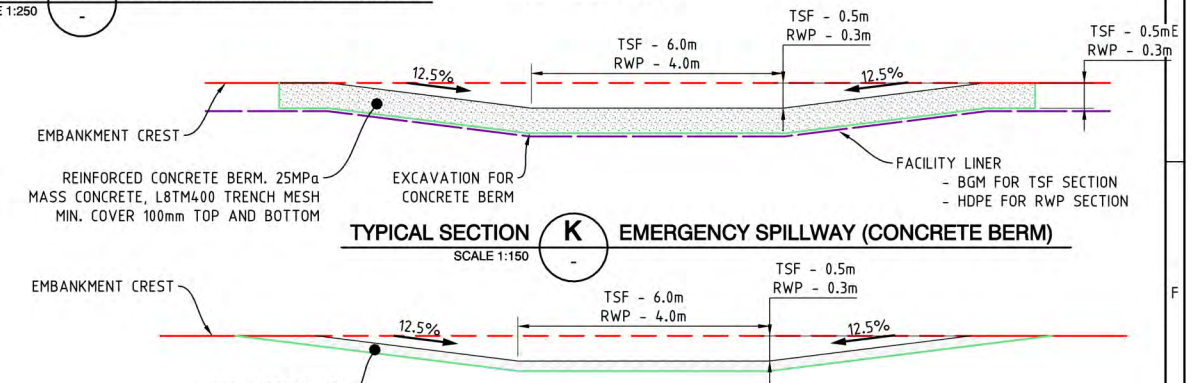


**SECTION J RWP EMBANKMENT SPILLWAY**  
SCALE 1:250

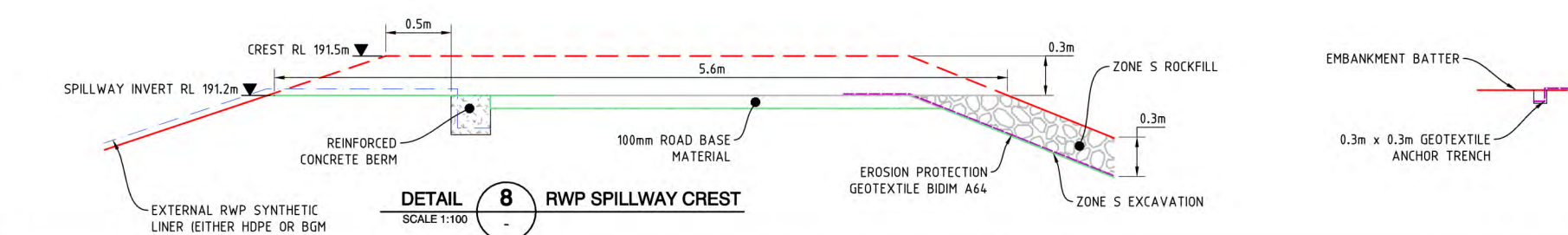
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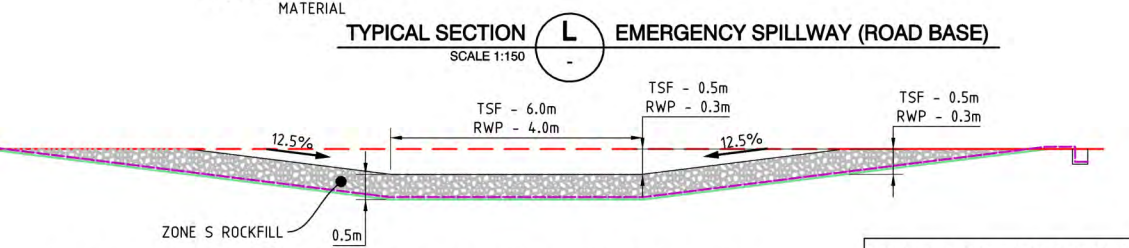
**DETAIL 7 TSF SPILLWAY CREST**  
SCALE 1:100



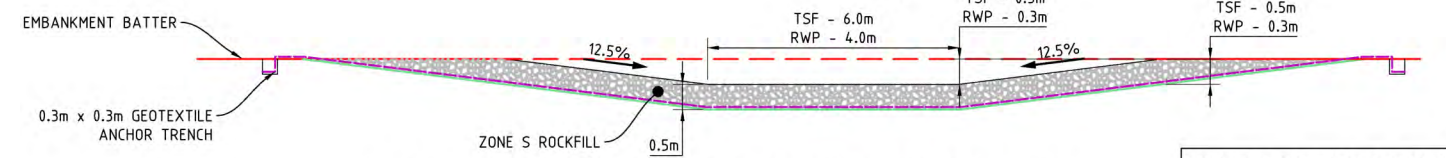
**TYPICAL SECTION K EMERGENCY SPILLWAY (CONCRETE BERM)**  
SCALE 1:150



**DETAIL 8 RWP SPILLWAY CREST**  
SCALE 1:100



**TYPICAL SECTION L EMERGENCY SPILLWAY (ROAD BASE)**  
SCALE 1:150



**TYPICAL SECTION M EMERGENCY SPILLWAY (OUTLET CHANNEL)**  
SCALE 1:150

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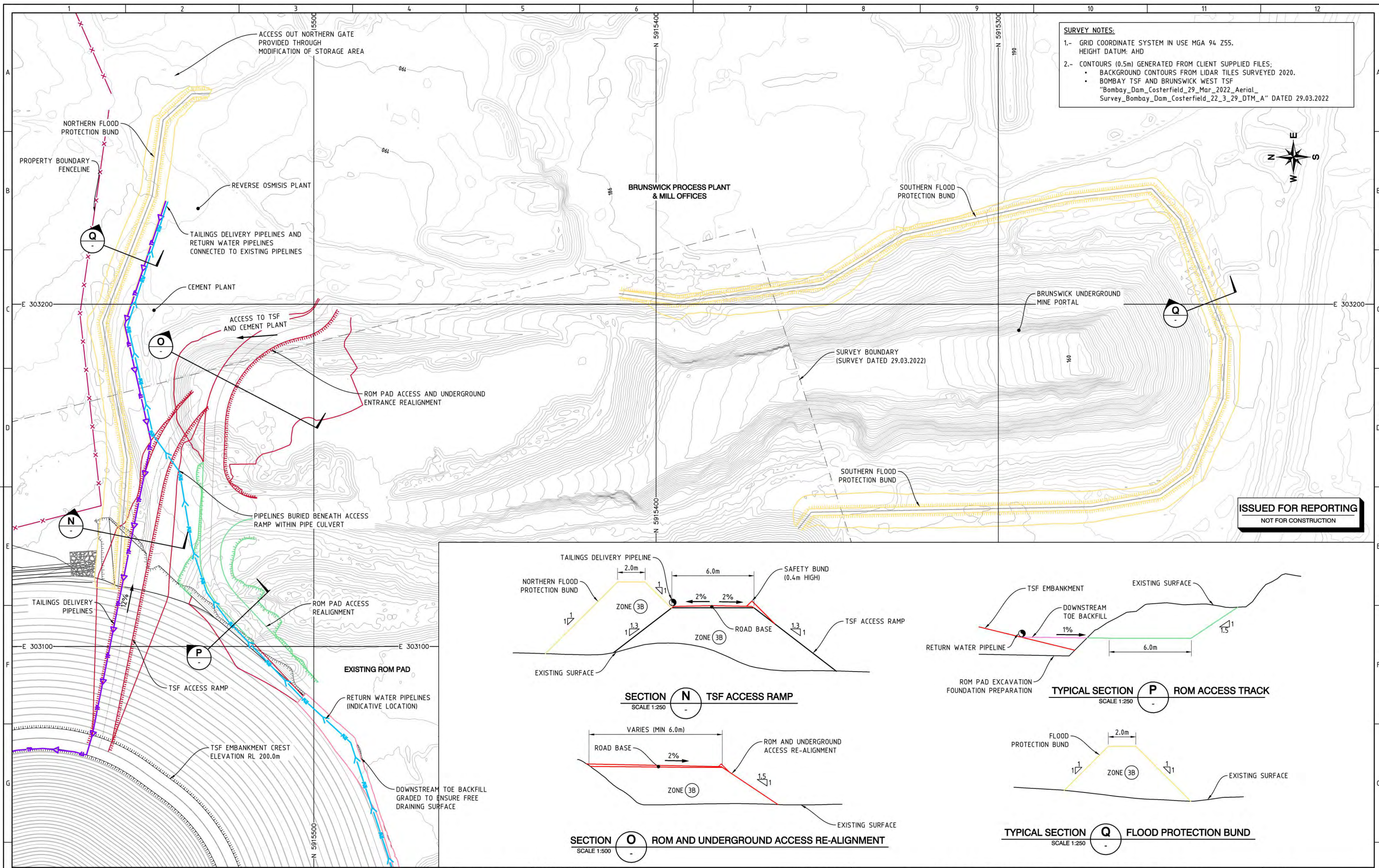
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**COSTERFIELD GOLD MINE**

**BRUNSWICK WEST TAILINGS STORAGE FACILITY**  
**EMERGENCY SPILLWAY SECTIONS AND DETAILS**

DWG. No. **FIGURE 8**

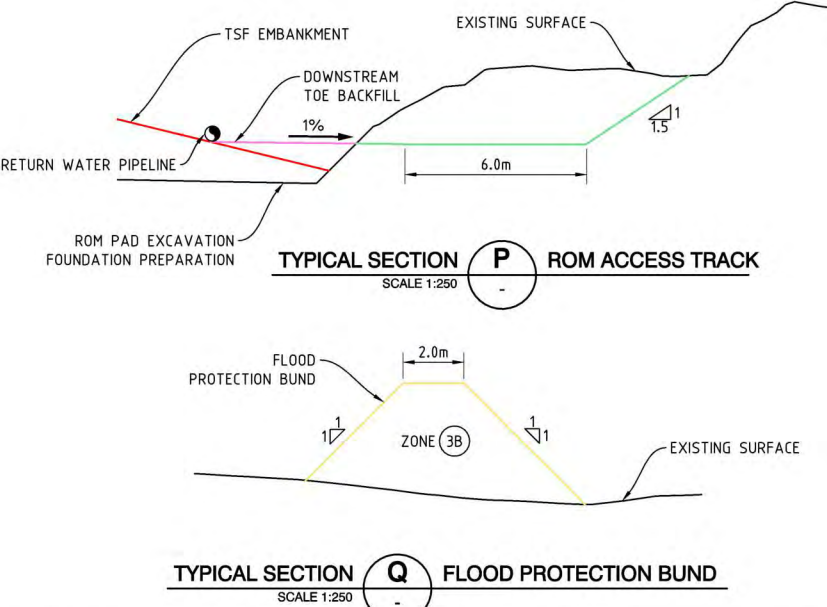
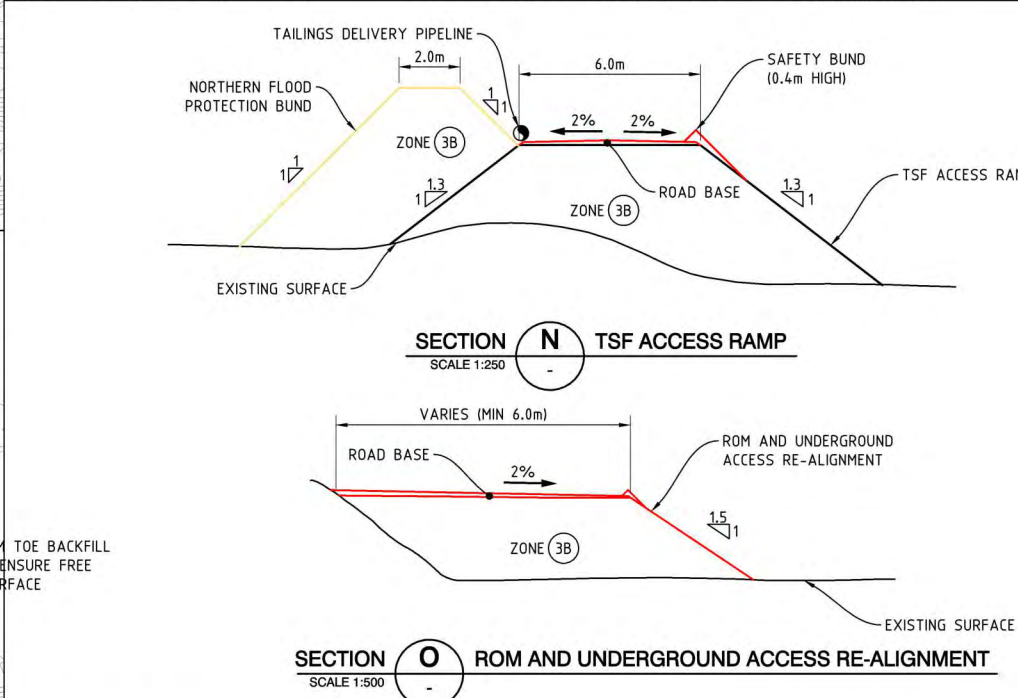
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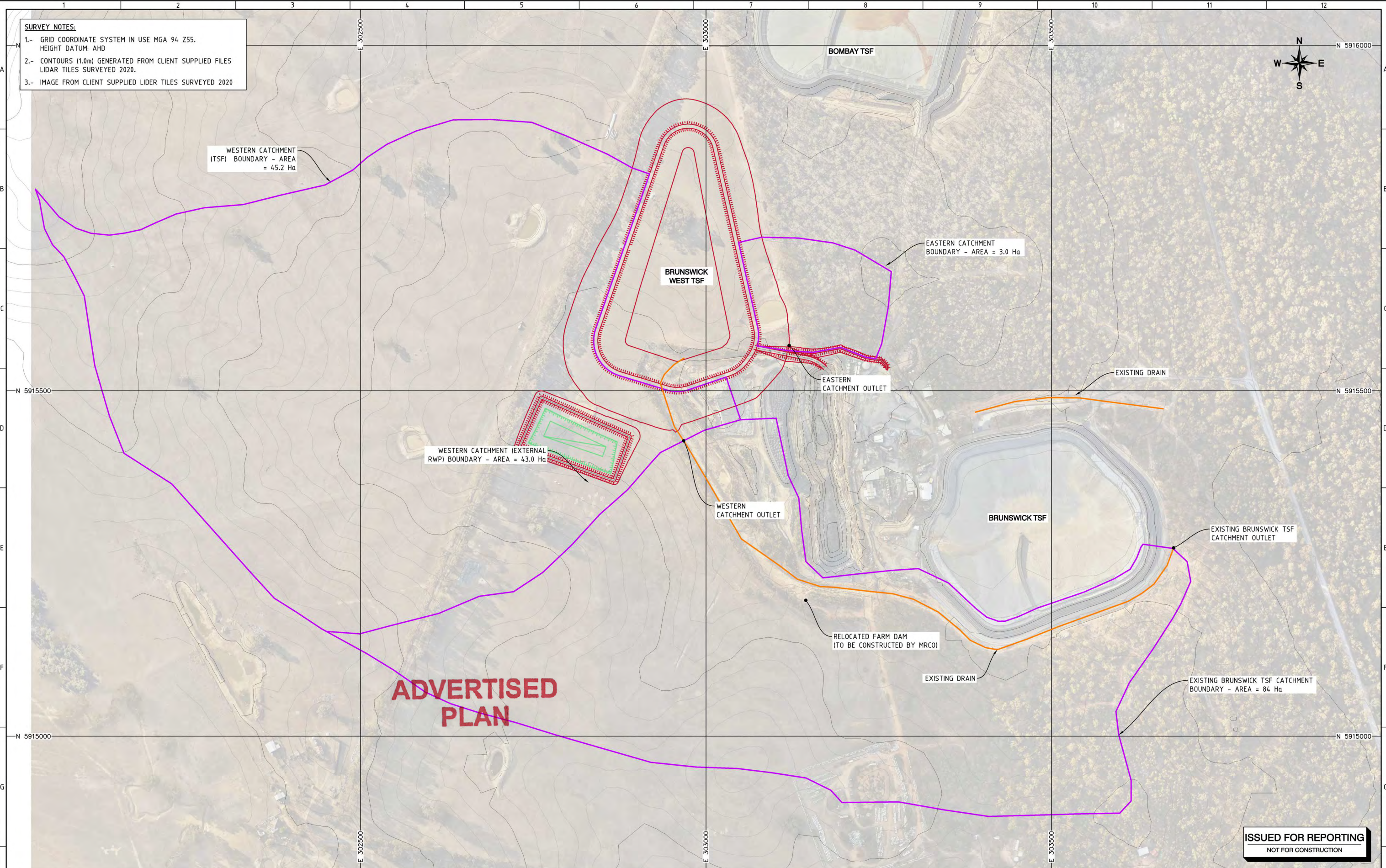
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**FLOOD PROTECTION MEASURES AND FACILITY ACCESS**

DWG. No. **FIGURE 9**  
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**ADVERTISED PLAN**



**SURVEY NOTES:**  
 1.- GRID COORDINATE SYSTEM IN USE MGA 94 Z55.  
 HEIGHT DATUM: AHD  
 2.- CONTOURS (1.0m) GENERATED FROM CLIENT SUPPLIED FILES  
 LIDAR TILES SURVEYED 2020.  
 3.- IMAGE FROM CLIENT SUPPLIED LIDER TILES SURVEYED 2020



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0	FOR EXTERNAL REVIEW	11.10.22	AC	CN	CN
A	FOR CLIENT REVIEW	15.09.22	AC	CN	CN


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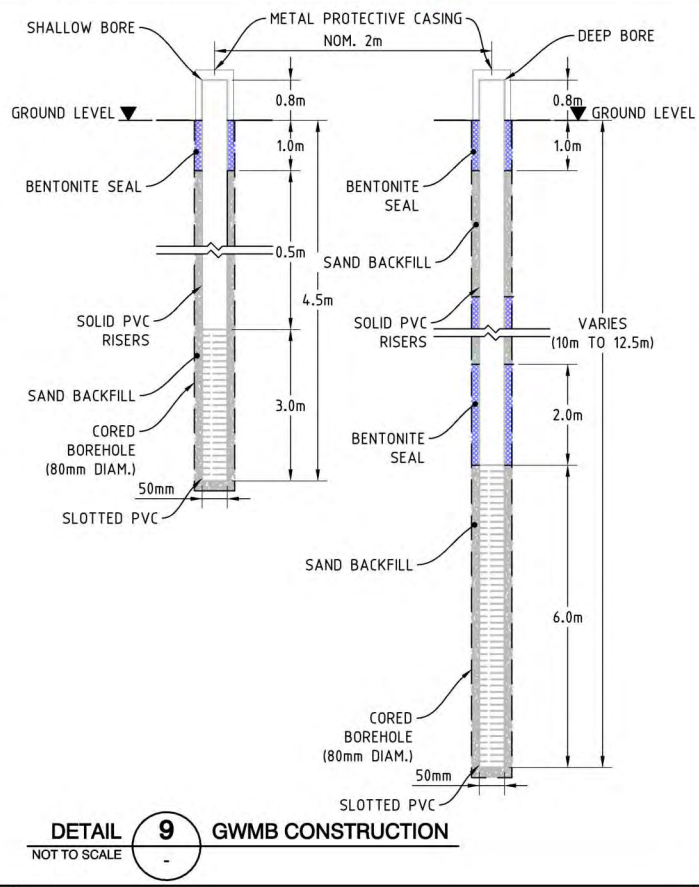
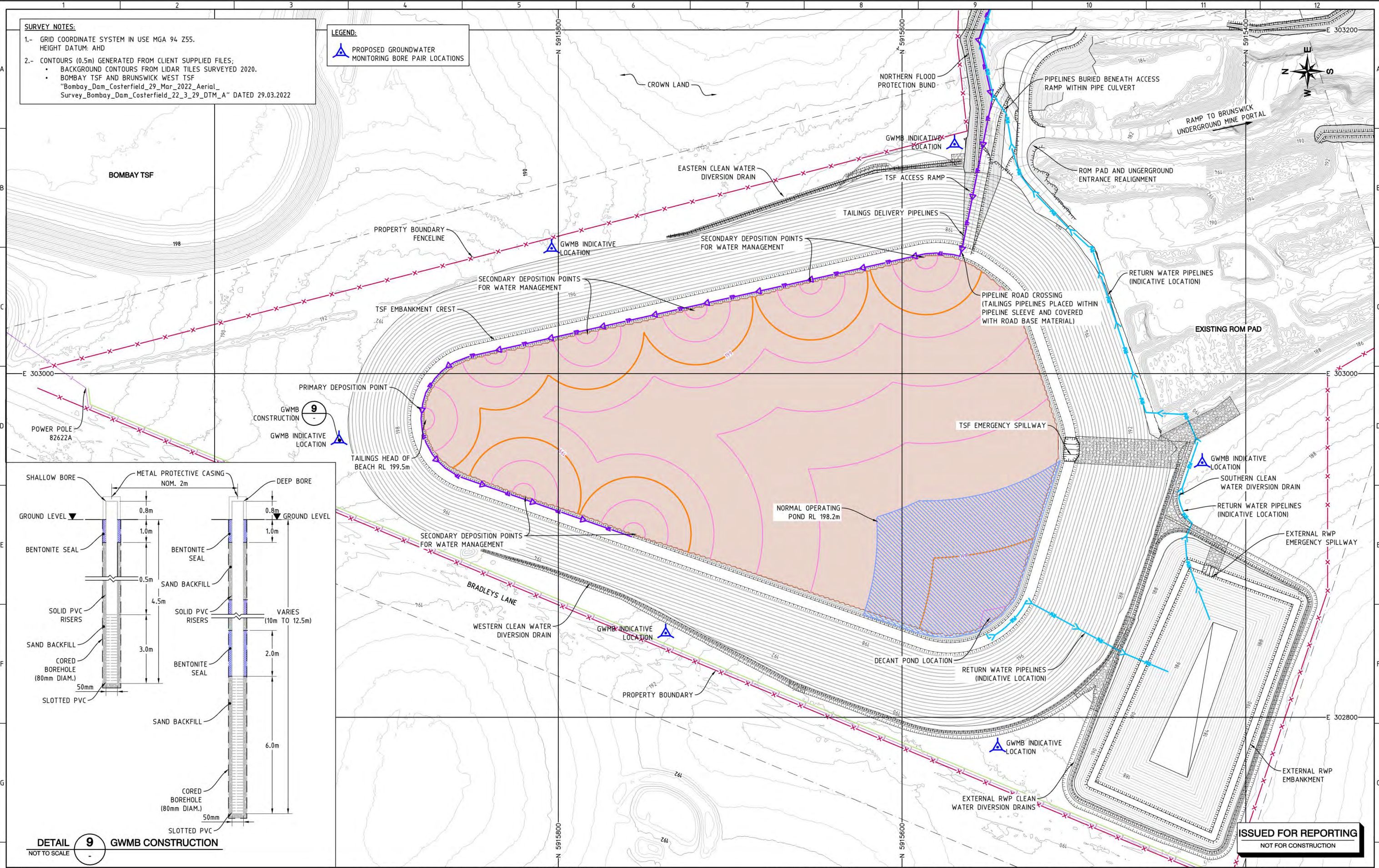
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**COSTERFIELD GOLD MINE**  
**BRUNSWICK WEST TAILINGS STORAGE FACILITY**  
**CATCHMENT AREAS**

DWG. No.	<b>FIGURE 10</b>		
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 "Bombay\_Dam\_Costerfield\_29\_Mar\_2022\_Aerial\_Survey\_Bombay\_Dam\_Costerfield\_22\_3\_29\_DTM\_A" DATED 29.03.2022

**LEGEND:**  
 PROPOSED GROUNDWATER MONITORING BORE PAIR LOCATIONS



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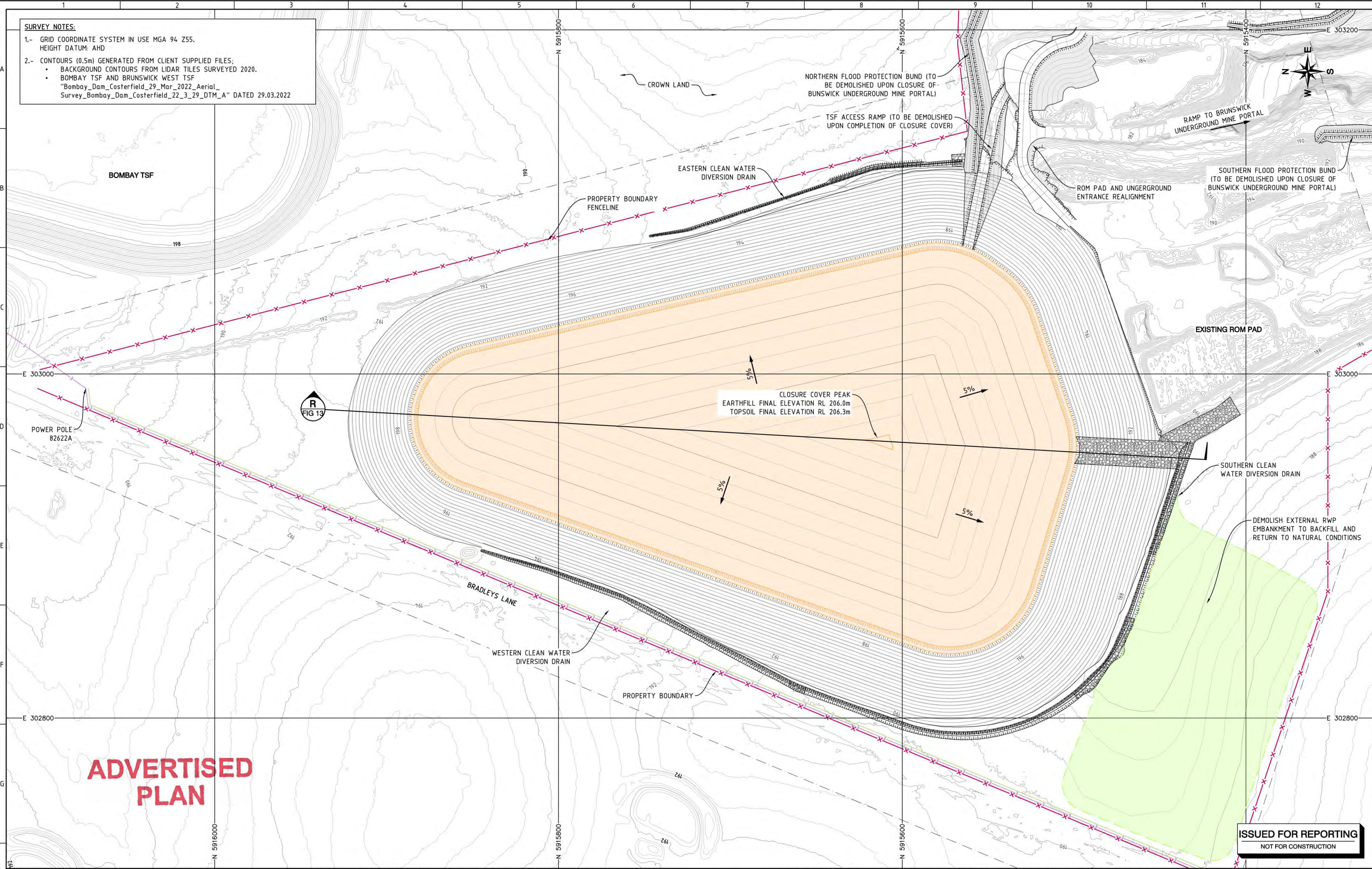
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**CONDITIONS AT END OF FILLING & INSTRUMENTATION PLAN**

DWG. No. **FIGURE 11**  
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 BACKGROUND CONTOURS FROM LIDAR TILES SURVEYED 2020.  
 • BOMBAY TSF AND BRUNSWICK WEST TSF  
 "Bombay\_Dam\_Costerfield\_29\_Mar\_2022\_Aerial\_Survey\_Bombay\_Dam\_Costerfield\_22\_3\_29\_DTM\_A" DATED 29.03.2022



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A	FOR CLIENT REVIEW	13.09.22	AC	CN	CN

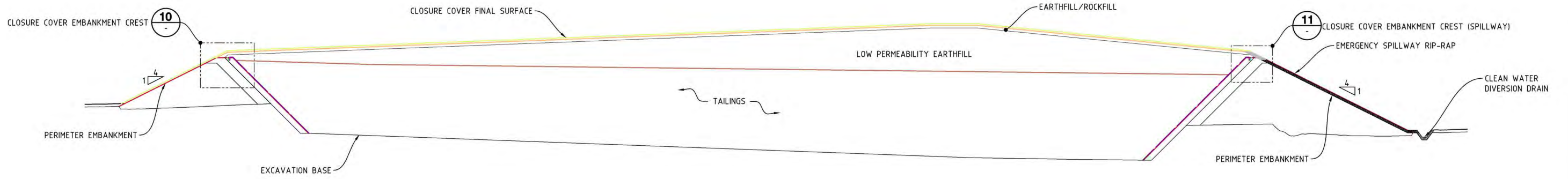
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**BRUNSWICK WEST TAILINGS STORAGE FACILITY**  
**FACILITY CLOSURE LAYOUT PLAN**

DWG. No. **FIGURE 12**

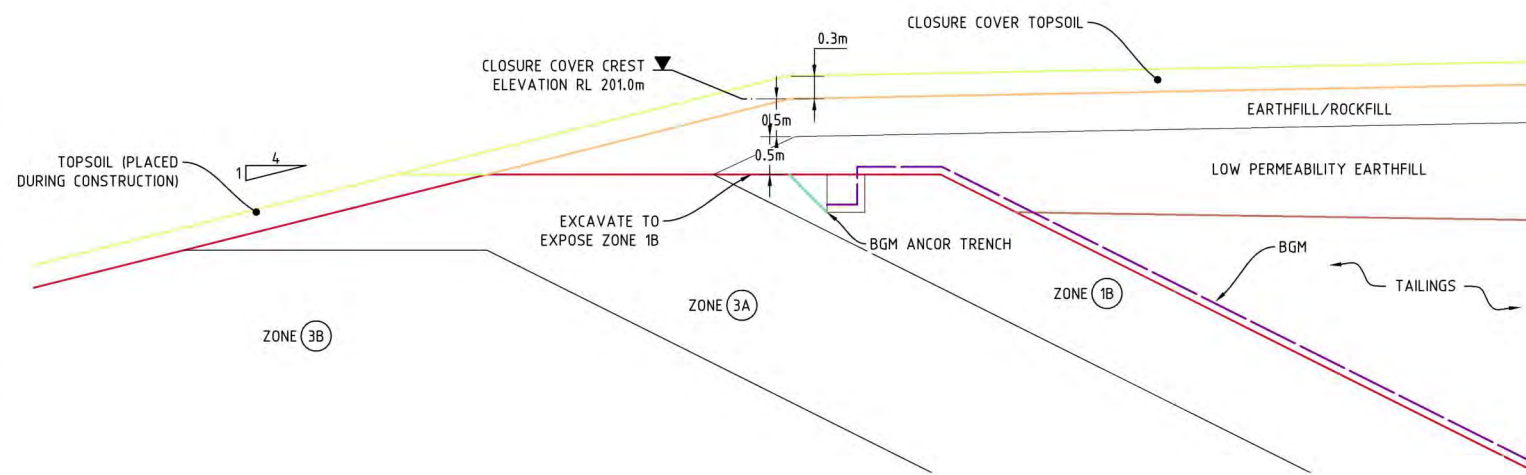
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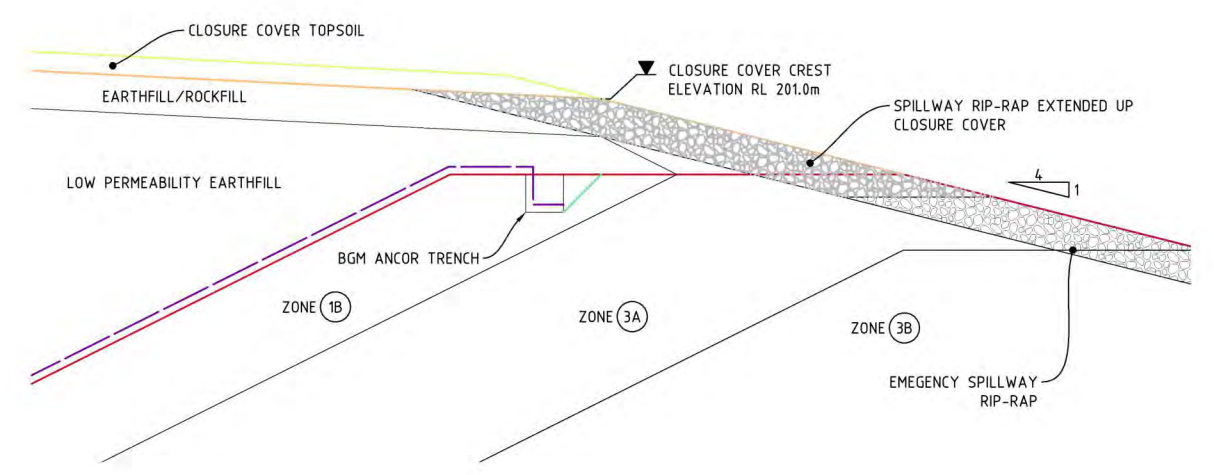


**SECTION R CLOSURE CONCEPT**  
 SCALE 1:1,500 (H)  
 1:500 (V)  
**FIG 12**

# ADVERTISED PLAN



**DETAIL 10 CLOSURE COVER EMBANKMENT CREST**  
 SCALE 1:100



**DETAIL 11 CLOSURE COVER EMBANKMENT CREST (SPILLWAY)**  
 SCALE 1:100

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**FACILITY CLOSURE SECTIONS AND DETAILS**

DWG. No. **FIGURE 13**

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