

An aerial photograph of a property with a green overlay and a red boundary. The property is labeled '5 RP137101' and 'Mount Lindsay'. The green area covers most of the property, with some red patches. The red boundary follows the perimeter of the property. The surrounding area includes trees, a road, and a building.

1.	FOLLOWING DEMOLITION OF EXISTING STRUCTURES, ALL VEGETATION, SOILS CONTAINING ORGANIC AND DELETERIOUS MATERIAL, CONCRETE SLABS, CONCRETE BUILDING FOOTINGS AND PAVERMENT AREAS SHALL BE STRIPPED AND REMOVED FROM SITE.		
2.	ALL EXISTING TREE STUMPS AND ROOTS SHALL BE GRUBBED OUT TO A MINIMUM DEPTH OF 30 INCHES.		
3.	DEPRESSIONS FORMED BY REMOVAL OF UNDERGROUND ELEMENTS AND OR WEATHERED AREAS SHOULD BE CLEANED OUT AND FILLED WITH COMPACTED IMPORTED FILL MATERIAL.		
4.	REMOVED CONSTRUCTION MATERIALS SHALL BE RECORDED BY THE OWNER WITH A TIME OF AT LEAST 5 TIMES PER YEAR IN THE PRESENCE OF THE NOTARIZED GEOTECHNICAL TESTING ENGINEER. A REPERFORATED 12" DIA. HOLE SHALL BE DRILLED TO A MINIMUM DEPTH OF 30 INCHES. THE HOLE SHALL BE TREATED IF POSSIBLE, OR REMOVED TO COMPETENT MATERIAL AND REPLACED WITH COMPACTED IMPORTED FILL MATERIAL. CONTRACTOR TO PROVIDE A SUMMARY FOR REMOVAL OF UNDESIRABLE MATERIAL AND REPLACEMENT WITH REPERFORATED 12" DIA. HOLE TO A MINIMUM DEPTH OF 30 INCHES.		
5.	ALL SOFT, WET OR UNDESIRABLE MATERIAL IS TO BE REMOVED AND REPLACED WITH APPROVED FILL MATERIAL, OF THE SAME OR BETTER TYPE, TO THE SAME OR BETTER DEPTH. FILL MATERIAL IMPORTED FILL MATERIALS SATISFYING THE REQUIREMENTS LISTED BELOW TO NOTARIZED BULK EARTHMOVERS LOGS ON BULK EARTHMOVER PLANS.		
6.	MINIMUM FILL MATERIAL SHALL BE THE FOLLOWING:		
7.	FREE FROM ORGANICS AND LOOSELY APPROVED BY THE SUPERINTENDENT AND SHALL COMPLY WITH THE FOLLOWING:		
8.	FREE FROM ORGANICS AND LOOSELY APPROVED BY THE SUPERINTENDENT		
9.	MAXIMUM PARTICLE SIZE 10mm		
10.	PLASTICITY INDEX MAXIMUM 15% ALLOWABLE MATTER		
11.	LIQUID LIMIT, MAX. MAX OF 40%		
12.	FACTORIAL 10mm (MAX. MAX OF 40%)		
13.	MINIMUM 10mm (MAX. MAX OF 40%)		
14.	SHRINKAGE INDEX, MAX OF 15%		
15.	CONTRACTOR TO PROVIDE CERTIFICATION TO SUPERINTENDENT FROM DATA REGISTERED LAB.		
16.	ALL MATERIALS SHALL BE TESTED FOR ACTUAL OR POTENTIAL ACID SULFATE SOILS AND MEETS CURRENT REGULATIONS FOR THE CONTROL OF ACID SULFATE SOILS. ANY TESTS FOR ALL EXISTING FILL MATERIAL SHALL BE PLACED IN MAXIMUM 20mm thick LAYERS AND		
17.	TESTED AT OPTIMUM MOISTURE CONTENT $\pm 0.2\%$ AND TO MEET THE FOLLOWING MINIMUM COMPACTION VALUES:		
	LOCATION	CONSTRUCTIVE SOILS	CHEROKEE/LESSER SOILS
	BUILDING AREAS	98%	90%
	FOUNDATION SUPPORT AREAS	98%	90%
	FLOOR SLABS	98%	90%
	PAVERMENT AREAS	98%	90%
	TOP 30mm BELOW SUBGRADE LEVEL	98%	90%
	BELOW THE TOP 30mm	98%	90%
	LANDSCAPE AREAS	98%	90%

AMENDED IN RED

By: Anita Torbey Fuller

Date: 17 November 2020


Queensland
Government

CUT/FILL BANDS					
Number	MIN DEPTH	MAX DEPTH	BAND AREA	COLOUR	BAND VOLUME
1	-3.00	-2.00	157.62		36.26
2	-2.00	-1.00	1289.80		501.96
3	-1.00	0.00	18898.48		8098.60
4	0.00	1.00	17883.65		8760.04
5	1.00	2.00	1645.01		154.75

CUT AND FILL VOLUMES BASED VOLUMETRIC DIFFERENCE BETWEEN EXISTING SURFACE (BASED ON PROVIDED TOPOGRAPHIC DATA) AND PROPOSED FINISHED EXTERNAL GROUND LEVELS. CUT AND FILL VOLUMES HAVE NOT INCLUDED SITE STRIP OR BULKING AS A RESULT OF EARTHWORKS (THIS SHOULD BE CONSIDERED BY THE EARTHWORKS CONTRACTOR DURING THE TENDER STAGE).

EARTHWORKS

- FOLLOWING DEMOLITION OF EXISTING STRUCTURES, ALL VEGETATION, SOILS CONTAINING ORGANIC AND DELETERIOUS MATERIAL, CONCRETE SLABS, CONCRETE BUILDING FOOTINGS AND PAVEMENT AREAS SHALL BE EXPOSED AND REMOVED FROM SITE.
- ALL EXISTING TREE STUMPS AND ROOTS SHALL BE GRUBBED OUT TO A MINIMUM DEPTH OF 750mm.
- DEPRESSIONS FORMED BY REMOVAL OF UNDERGROUND ELEMENTS AND/OR WEARWAYS AREAS SHOULD BE CLEANED OUT AND FILLED WITH COMPACTED IMPORTED FILL MATERIAL.
- EXPOSED CONSTRUCTION AREAS SHALL BE PROOF ROLLED USING A VEHICLE WITH A TARE OF AT LEAST 5 TONNES PER AXLE IN THE PRESENCE OF THE NOMINATED GEOTECHNICAL TESTING AUTHORITY AND A REPRESENTATIVE OF PROTEST. AREAS DEMONSTRATING EXCESSIVE MOVEMENT SHALL BE TREATED IF POSSIBLE, OR REMOVED TO COMPETENT MATERIAL AND REPLACED WITH COMPACTED IMPORTED FILL MATERIAL. CONTRACTOR TO ALLOW A PROVISIONAL SUM FOR REMOVAL OF UNSUITABLE MATERIAL AND REPLACEMENT WITH COMPACTED IMPORTED FILL MATERIAL. ALLOW A PROVISIONAL QUANTITY OF 100m³.
- ALL SOFT, WET OR UNSUITABLE MATERIAL IS TO BE REMOVED AND REPLACED WITH APPROVED MATERIAL, SATISFYING THE REQUIREMENTS LISTED BELOW FOR IMPORTED FILL MATERIAL.
- PLACE IMPORTED FILL MATERIAL SATISFYING THE REQUIREMENTS LISTED BELOW TO NOMINATED BULK EARTHWORKS LEVELS ON BULK EARTHWORKS PLAN.
- ALL IMPORTED FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE SUPERINTENDENT AND SHALL COMPLY WITH THE FOLLOWING:
 - FREE FROM ORGANIC AND PERISHABLE MATTER
 - MAXIMUM PARTICLE SIZE: 100mm
 - PLASTICITY INDEX: MAXIMUM 15%
 - LIQUID LIMIT: MAX OF 40%
 - FASSING: 10mm SIEVE, MAX 80%
 - MINIMUM CBR: 10%
 - SHRINKAGE INDEX: MAX OF 10%
- CONTRACTOR TO PROVIDE CERTIFICATION TO SUPERINTENDENT FROM A NATA REGISTERED LAB THAT THE FILL MATERIAL IS FREE OF ACTUAL OR POTENTIAL ACID SULFATE SOILS AND MEETS CURRENT DFI REGULATIONS FOR THE CONTROL OF RED IMPORTED FILL MATERIALS (RIFM).
- ALL ENGINEERED FILL MATERIAL SHALL BE PLACED IN MAXIMUM 300mm THICK LAYERS AND COMPACTED AT OPTIMUM MOISTURE CONTENT (+ OR -2%) TO ACHIEVE THE FOLLOWING MINIMUM COMPACTION VALUES:

LOCATION	COHESIVE SOILS	COHESIONLESS SOILS
BUILDING AREAS	98%	97%
FOUNDATION SUPPORT	98%	97%
FLOOR SLABS	98%	97%
PAVEMENT AREAS	98%	97%
TOP 300mm BELOW SUBGRADE LEVEL	98%	97%
BELOW THE TOP 300mm	98%	97%
LANDSCAPE AREAS	98%	97%

WHERE THE ABOVE VALUES ARE DETERMINED IN ACCORDANCE WITH AS 1289 S 1.1 (STANDARD COMPACTION) FOR COHESIVE SOILS AND AS 1289 S 1.1 (STANDARD METHOD) FOR COHESIONLESS SOILS.

- ALL EARTHWORKS OPERATIONS SHALL BE CARRIED OUT WITH LEVEL ENGINEERING SUPERVISION IN ACCORDANCE WITH APPENDIX B OF AS 3798. THE GEOTECHNICAL TESTING AUTHORITY SHALL BE FROM THE NOMINATED FIRM OF PROVIDERS WITHIN THE CIVIL SPECIFICATION. THE NOMINATED GEOTECHNICAL TESTING AUTHORITY SHALL PROVIDE CERTIFICATION AS NOTED IN THE GEOTECHNICAL REPORT THAT ALL GENERAL EARTHWORKS OPERATIONS HAVE BEEN CARRIED OUT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS AND THE CONTROLLED FILL IS SUITABLE FOR PURPOSE WITH A MINIMUM 150 kPa BEARING CAPACITY UNDER THE BUILDING. ALL CERTIFICATIONS RECOMMENDED IN SECTION 8 OF DOUGLAS PARTNERS REPORT, PROJECT NO. 30376.00 DATED MAY 2018 ARE TO BE PROVIDED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PROGRAMME THE EARTHWORKS OPERATION SO THAT THE WORKING AREAS ARE ADEQUATELY DRAINED DURING THE PERIOD OF CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS. ROLLER MARKS AND SIMILAR WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR NOT OBSERVING THESE REQUIREMENTS SHALL BE RECTIFIED BY THE CONTRACTOR AT THEIR COST. CONTRACTOR IS TO ALSO NOTE THAT THE EXISTING SOILS INCLUDING NATURAL SILT, SAND AND HIGH PLASTICITY CLAYS ARE LIKELY TO BE SUSCEPTIBLE TO SOFTENING WHEN WET. TO THE POINT WHERE THE SITE MAY BECOME UNWALKABLE. THE CONTRACTOR IS TO PROVIDE TEMPORARY HALL ROADS WHERE NECESSARY TO ALLOW ACCESS TO THE WORKS AREAS.
- TESTING OF THE SUBGRADE SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 3798 BY AN APPROVED NATA REGISTERED LABORATORY AT THE CONTRACTORS EXPENSE.
- ALL BASE AND SUBBASE MATERIALS SHALL BE PLACED IN MAXIMUM 150mm THICK LAYERS AND COMPACTED AT OPTIMUM MOISTURE CONTENT OF 1+ OR -2% TO ACHIEVE A DRY DENSITY IN ACCORDANCE WITH AS 1289 S 2.1 OF NOT LESS THAN THE FOLLOWING:

LAYER	MODIFIED DRY DENSITY
BASE COURSE	98% MODIFIED (AS 1289 S 2.1)
SUB-BASE COURSE	98% MODIFIED (AS 1289 S 2.1)

- CONTRACTOR TO ENSURE VIA THE APPROPRIATE SELECTION OF FILL MATERIAL AND EARTHWORKS THAT, UPON COMPLETION OF THE EARTHWORKS, THAT THE BUILDING PLATFORM HAS A CLASS 9 CLASSIFICATION IN ACCORDANCE WITH AS 2875.
- ANY SURPLUS EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF SITE AT AN APPROVED TIF SITE. CONTRACTOR TO ALLOW TO COMPLY WITH CURRENT DFI REGULATIONS FOR THE CONTROL OF RED IMPORTED FILL MATERIALS.
- ANY CONTAMINATED MATERIAL SHALL BE MANAGED AND DISPOSED OF ACCORDING TO THE CURRENT LOCAL COUNCIL AND EPA REQUIREMENTS INCLUDING CERTIFICATION.
- THE USE OF POTABLE WATER IS NOT PERMITTED IN ACTIVITIES ASSOCIATED WITH ROAD AND PAVEMENT CONSTRUCTION. THE COMPACTION OF FILL MATERIAL OR DUST SUPPRESSION CONTRACTOR TO UTILISE RECYCLED OR UNPOTABLE WATER FOR THESE ACTIVITIES WITHIN THE CONTRACT. USE OF RECYCLED WATER MUST BE IN ACCORDANCE WITH THE REQUIREMENTS OF COUNCIL.

AMENDED IN RED

By: Anita Torbey Fuller
Date: 17 November 2020



CUT/FILL BANDS

Number	MIN DEPTH	MAX DEPTH	BAND AREA	COLOR	BAND VOLUME
1	-2.00	-1.00	2587.05	Red	330.49
2	-1.00	0.00	18702.65	Dark Green	9892.95
3	0.00	1.00	13386.75	Light Green	8514.15
4	1.00	2.00	4468.34	Dark Green	3619.01
5	2.00	3.00	357.25	Dark Green	11.77

FILL = 12144.93 m³

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2020/1144

Date: 23 November 2020



CUT AND FILL VOLUMES BASED VOLUMETRIC DIFFERENCE BETWEEN EXISTING SURFACE (BASED ON PROVIDED TOPOGRAPHIC DATA) AND PROPOSED FINISHED EXTERNAL GROUND LEVELS. CUT AND FILL VOLUMES HAVE NOT INCLUDED SITE STRIP OR BULKING AS A RESULT OF EARTHWORKS (THIS SHOULD BE CONSIDERED BY THE EARTHWORKS CONTRACTOR DURING THE TENDER STAGE).

