

GENERAL NOTES

GENERAL

- G01 FOR LEGEND OF DRAWINGS REFER TO THIS SHEET. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH TECHNICAL SPECIFICATION FOR PROPOSED CHANNEL WORKS CPA/138530 BUNDILLA PARADE, BERKLEY VALE AND WYONG COUNCIL'S ENGINEERING DESIGN AND ENGINEERING CONSTRUCTION SPECIFICATION AND TO THE REQUIREMENTS OF COUNCIL'S ENGINEER.
- G02 THE CONTRACTOR SHALL OBTAIN ALL LEVELS FROM ESTABLISHED BENCH MARKS ONLY AS SUPPLIED BY THE APPOINTED SURVEYORS.
- G03 SERVICES SHOWN ON THESE PLANS ARE LOCATED FROM INFORMATION PROVIDED BY THE RELEVANT AUTHORITIES AND FIELD INVESTIGATIONS AND ARE NOT GUARANTEED COMPLETE OR CORRECT. ALL SERVICE LOCATIONS ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- G04 VEHICULAR ACCESS AND ALL SERVICES TO BE MAINTAINED AT ALL TIMES TO AREAS AFFECTED BY CONSTRUCTION.
- G05 NO TREES TO BE REMOVED UNLESS APPROVAL IS GRANTED BY COUNCILS LANDSCAPE COMPLIANCE OFFICER.
- G06 MAKE SMOOTH JUNCTIONS AND TRANSITIONS WITH EXISTING WORKS
- G07 ALL RUBBISH, BUILDINGS, SHEDS, AND FENCES ARE TO BE REMOVED TO THE SATISFACTION OF COUNCILS ENGINEER.
- G08 ALL COORDINATES ARE BASED ON MGA94 (56) COORDINATES. ALL LEVELS ARE TO METRES AHD.
- G09 ALL WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH DEVELOPMENT APPLICATION CONDITIONS OF CONSENT ISSUED BY COUNCIL OR ANY OTHER STATUTORY CONDITIONS ISSUED BY A GOVERNMENT AUTHORITY

EARTHWORKS

- E01 EARTHWORKS ARE TO BE CARRIED OUT TO THE SATISFACTION OF THE COUNCIL ENGINEER. UNSUITABLE MATERIALS ARE TO BE REMOVED FROM CHANNEL PRIOR TO FILLING. THE CONTRACTOR IS TO ARRANGE AND MAKE AVAILABLE COMPACTION TESTING RESULTS FOR ALL AREAS THAT CONTAIN FILL IN EXCESS OF 200mm.
- E02 COMPACTION OF EARTHWORKS SHALL CONTINUE UNTIL A DRY DENSITY RATIO OF 95% FOR SITE FILLING HAS BEEN ACHIEVED IN ACCORDANCE WITH TEST METHOD AS1289.5.3.1 OR AS 5.1.1.
- E03 THE CONTROL TESTING OF EARTHWORKS SHALL BE IN ACCORDANCE WITH THE GUIDELINES IN AS3798 "GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS", WHERE IT IS PROPOSED TO USE TEST METHOD AS1298.5.9.2 TO DETERMINE THE FIELD DENSITY, A SAND REPLACEMENT METHOD SHALL BE USED TO CONFIRM THE RESULTS. SOIL TESTING SHALL BE PROVIDED AS REQUIRED IN THE TECHNICAL SPECIFICATION FOR PROPOSED CHANNEL WORKS CPA/138530 BUNDILLA PARADE, BERKLEY VALE AND WYONG COUNCIL'S ENGINEERING DESIGN AND ENGINEERING CONSTRUCTION SPECIFICATION. ALL TESTING RESULTS ARE TO BE SUBMITTED TO THE SUPERINTENDENT AS NOMINATED BY THE PRINCIPAL.
- E04 IN AREAS TO BE FILLED WHERE THE SLOPE OF THE NATURAL SURFACE EXCEEDS 1(V):3(H), BENCHES ARE TO BE CUT TO PREVENT SLIPPING OF THE PLACED FILL MATERIAL AS REQUIRED BY THE COUNCIL
- E05 ALL BATTERS ARE TO BE SCARIFIED TO A DEPTH OF 50mm TO ASSIST THE ADHESION OF TOP SOIL TO BATTERFACE.
- E06 PROVIDE MINIMUM 150mm AND MAXIMUM 300mm TOPSOIL ON FILLED AREAS AND ALL AREAS DISTURBED DURING CONSTRUCTION. TOPSOILED AREAS TO BE STABILISED WITH APPROVED VEGETATION A MAXIMUM OF 2 DAYS AFTER TOPSOILING AND ARE TO BE WATERED TO ENSURE GERMINATION.
- E07 THE CONTRACTOR SHALL CONTROL SEDIMENTATION, EROSION AND POLLUTION DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION' PROVIDED BY LANDCOM.
- E08 A 1-METRE WIDE, CONTINUOUS STRIP OF COUCH GRASS SHALL BE PLACED BEHIND THE BACK OF ALL KERBS AND OTHER CONCRETE STRUCTURES IMMEDIATELY AFTER THE COMPLETION OF THE FOOTPATH GRADING OR OTHER ELEMENTS AS APPLICABLE, SHALL BE MAINTAINED AND REPLACED AS A REQUIREMENT DURING THE CONSTRUCTION MAINTENANCE PERIOD.
- E09 ALL EXISTING TOPSOIL TO BE REUSED ON SITE IS TO BE TREATED WITH APPROPRIATE HERBICIDE (AS APPROVED) PRIOR TO REUSE.

SEDIMENT AND EROSION CONTROL NOTES

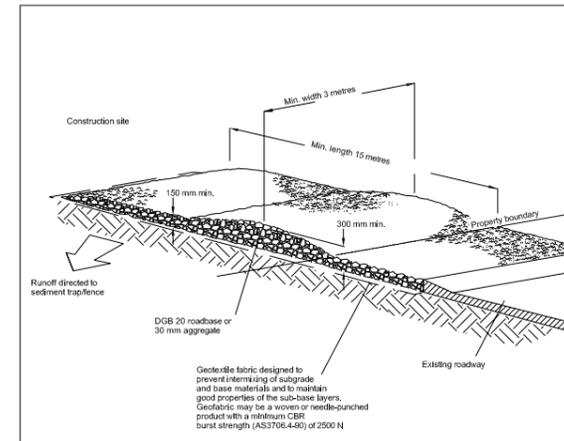
- S01 THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO THE COMMENCEMENT OF ANY WORKS BEING CARRIED OUT. ALL SOIL AND EROSION MEASURES SHALL BE MAINTAINED AND KEPT IN PLACE FOR THE FULL DURATION OF THE WORKS AND SHALL ONLY BE REMOVED AT FINAL STABILISATION OF THE WORKS. WHERE IT IS NECESSARY TO UNDERTAKE STRIPPING IN ORDER TO CONSTRUCT A SEDIMENT CONTROL DEVICE ONLY SUFFICIENT GROUND SHALL BE STRIPPED TO ALLOW CONSTRUCTION.
- S02 ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED AS INDICATED ON THESE DRAWINGS. LOCATION AND EXTENT OF SOIL AND WATER MANAGEMENT DEVICES IS DIAGRAMMATIC ONLY AND THE ACTUAL REQUIREMENTS SHALL BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT.
- S03 CONFORMITY WITH THIS PLAN SHALL IN NO WAY REDUCE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AGAINST WATER DAMAGE DURING THE COURSE OF THE CONTRACT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ANY NECESSARY CONTROL IS IN PLACE EVEN THOUGH SUCH CONTROL MAY NOT BE SHOWN ON THE PLAN.
- S04 THE CONTRACTOR SHALL INFORM ALL SUBCONTRACTORS AND ALL EMPLOYEES OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSTREAM AREAS
- S05 THE CONTRACTOR SHALL REGULARLY MAINTAIN SEDIMENT AND EROSION CONTROL STRUCTURES AND DESILT SUCH STRUCTURES PRIOR TO THE REDUCTION IN CAPACITY OF 30% DUE TO ACCUMULATED SEDIMENT. THE SEDIMENT SHALL BE DISPOSED OF ON SITE IN A MANNER APPROVED BY THE ENGINEER.
- S06 THE CONTRACTOR SHALL TEMPORARILY REHABILITATE WITHIN TEN (10) DAYS ANY DISTURBED AREAS PROVIDING A MINIMUM 60% COVER. FINAL REHABILITATION IS TO BE PROVIDED WITHIN A FURTHER 60 DAYS WITH A MINIMUM 70% COVER.
- S07 ALL BATTERS AND DISTURBED LAND TO BE REVEGETATED AS SPECIFIED IN THE LANDSCAPE DRAWINGS. LANDSCAPE DESIGN PROPOSED THE HYDROMULCHING WITH SELECTED LOCAL NATIVE SEEDS, DROUGHT RESISTANT, AS AGREED WITH THE LOCAL COUNCIL AND ADDITIONAL TEMPERATURE QUICK GROW SEED COVER CROP MIX:
JAPANESE MILLET - 35KG/HA (SEP-MAR)
ECLIPSE RYE - 25 KG/HA

- RED CLOVER 5KG/HA AND LATER
RYE CORN 35KG/HA (FROM APRIL TO AUGUST ONLY)
ADDITIVES:
FERTILISER - POULTRY MANURE PELLETS 300KG/HA
WOOD FIBRE MULCH - 2T/HA
BINDER - GRANULAR GUAR GUM - 40KG/HA.
- S08 THE CONTRACTOR SHALL PROVIDE WATERING OF THE VEGETATED BATTERS FOR MAINTENANCE PERIOD, TO LANDSCAPE ARCHITECT SPECIFICATIONS. PLANT, MACHINERY AND VEHICLES SHALL NOT BE DRIVEN OVER GRASSED AREAS UNLESS ON AN APPROVED HAULAGE ROUTE.
- S09 ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS QUICKLY AS POSSIBLE TO MINIMISE RISK OF EROSION.
- S10 SITE ACCESS SHALL BE RESTRICTED TO THE NOMINATED POINTS.
- S11 DUST AND SITE DISTURBANCE MUST BE KEPT TO A MINIMUM ALWAYS. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS MUST BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO REDUCE WIND EROSION. ERECT BARRIER FENCING TO MINIMISE LAND DISTURBANCE BY PREVENTING VEHICULAR AND PEDESTRIAN ACCESS TO AREAS BEING REHABILITATED AND LANDS THAT DO NOT NEED TO BE DISTURBED BY THIS PROJECT.
- S12 STOCKPILE TOPSOILS, SUBSOILS AND OTHER MATERIALS SEPARATELY.
- S13 TOPSOIL SHALL BE STORED IN LOW MOUNDS NO MORE THAN 2 METRES HIGH AND RE-USED WITHIN TWO MONTHS TO MAINTAIN ACTIVE POPULATIONS OF BENEFICIAL SOIL MICROBES AND SEED.
- S14 PLACE ALL STOCKPILES AT LEAST FIVE METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS, ESPECIALLY EARTH BANKS AND ROADS. IF NECESSARY, EARTH BANKS OR DRAINS WILL BE CONSTRUCTED TO DIVERT LOCALISED RUN-ON.
- S15 TURN TOPSOIL STOCKPILES OVER TO AERATE THEM AT MONTHLY INTERVALS. ENSURE VEGETATION IS NOT INCORPORATED INTO THE SOIL.
- S16 AVOID REVERSING THE SOIL PROFILE MATERIALS DURING FILL OPERATIONS REPLACE DISTURBED SOILS IN THEIR ORIGINAL ORDER.
- S17 ON COMPLETION OF MAJOR EARTHWORKS AND BEFORE ADDING TOPSOIL, LEAVE DISTURBED LANDS WITH A LOOSE SURFACE. ALTERNATELY, DISTURBED AREAS PREVIOUSLY COMPACTED BY CONSTRUCTION WORKS WILL BE RIPPED TO MORE THAN 50mm ALONG THE CONTOUR BEFORE APPLYING TOPSOIL (REFER REPLACING TOPSOIL STANDARD DETAIL).
- S18 PROVIDING MATERIALS ARE AVAILABLE, SPREAD TOPSOIL TO A MINIMUM DEPTH OF 150mm IN REVEGETATION AREAS ON SLOPES OF 4(H):1(V) OR LESS, TO A DEPTH OF 75 TO 100mm IN REVEGETATION AREAS STEEPER THAN 4:1 AND TO A DEPTH OF 400MM IN THE LOW-FLOW CHANNEL BED PLANTING MEDIA WHERE NO RIP-RAP IS TO BE PROVIDED.
- S19 LEAVE TOPSOIL IN A SCARIFIED OR ROUGH CONDITION ONCE REPLACED TO HELP MOISTURE INFILTRATION AND REDUCE SOIL EROSION.
- S20 ENSURE SOIL IS THOROUGHLY SOAKED TO A DEPTH OF 75mm (RAIN OR IRRIGATION) IMMEDIATELY BEFORE PLANTING.
- S21 HANDLE TOPSOIL ONLY WHEN IT IS MOIST (NOT WET OR DRY) TO AVOID DECLINE OF SOIL STRUCTURE
- S22 THE CONTRACTOR SHALL MAINTAIN A LOG BOOK DETAILING: RECORDS OF ALL RAINFALL CONDITION OF SOIL AND WATER MANAGEMENT STRUCTURES AN APPLICATION OF FLOCCULATING AGENTS TO SEDIMENT BASIN VOLUMES OF ALL WATER DISCHARGED FROM SEDIMENT BASINS ANY ADDITIONAL REMEDIAL WORKS REQUIRED.
- S23 THE LOG BOOK SHALL BE MAINTAINED ON A WEEKLY BASIS AND BE MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. THE ORIGINAL LOG BOOK SHALL BE ISSUED TO THE PROJECT MANAGER AT THE COMPLETION OF WORKS
- S24 ALL EMBANKMENTS TO BE STABILISED AS PER LANDSCAPE DETAILS.
- S25 A SELF AUDITING PROGRAM SHOULD BE ESTABLISHED BASED ON A CHECK SHEET DEVELOPED FOR THE SITE. A SITE INSPECTION USING THE CHECK SHEET SHOULD BE MADE BY THE SITE MANAGER AT LEAST WEEKLY, IMMEDIATELY BEFORE SITE CLOSURE AND IMMEDIATELY FOLLOWING RAINFALL EVENTS THAT CAUSE RUNOFF.
- S26 UNDERTAKE THE SELF AUDIT BY:
 - LOCATIONS WHERE VEHICLES ENTER AND LEAVE THE SITE.
 - WALKING AROUND THE SITE SYSTEMATICALLY (E.G. CLOCKWISE)
 - RECORDING THE CONDITION OF EVERY BMP EMPLOYED
 - RECORDING MAINTENANCE REQUIREMENTS (IF ANY) FOR EACH BMP
 - RECORDING THE VOLUMES OF SEDIMENT REMOVED FROM THE SEDIMENT
 - RETENTION SYSTEMS WHERE APPLICABLE
 - RECORDING THE SITE WHERE SEDIMENT IS DISPOSED
 - FORWARDING A SIGNED DUPLICATE OF THE COMPLETED CHECK SHEET TO THE PROJECT MANAGER/DEVELOPER/SITE OPERATOR FOR THEIR INFORMATION
- S27 IN PARTICULAR, INSPECT:
 - LOCATIONS WHERE VEHICLES ENTER AND LEAVE THE SITE.
 - ALL INSTALLED EROSION AND SEDIMENT CONTROL MEASURES, ENSURING THEY ARE OPERATING CORRECTLY
 - AREAS THAT MIGHT SHOW WHETHER SEDIMENT OR OTHER POLLUTANTS ARE LEAVING THE SITE OR HAVE POTENTIAL TO DO SO
 - ALL DISCHARGE POINTS, TO ASSESS WHETHER THE EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING IMPACTS TO THE RECEIVING WATERS
- S28 A SITE INSPECTION USING THE CHECK SHEET WILL BE MADE BY THE SITE MANAGER AT LEAST WEEKLY, IMMEDIATELY BEFORE SITE CLOSURE, AND IMMEDIATELY FOLLOWING RAINFALL EVENTS GREATER THAN 5mm IN 24 HOURS.
- S29 TEMPORARILY CAP PIT OUTLET AND ALLOW EXISTING PIT TO SURCHARGE. CHANNEL PIT SURCHARGE OVER EXISTING CARRIAGEWAY USING DIVERSION BUNDS.

LEGEND

PROPOSED	DESCRIPTION	EXISTING	FUTURE
	ROAD PAVEMENT		
	BATTERS		
	CONCRETE PATHWAY		
	CONTOURS		
	REINFORCED CONCRETE STORMWATER PIPELINE		
	COMMON DRAINAGE LINE, PIT & SLOPE JUNCTION		
	STORMWATER DRAINAGE PIT		
	DRAINAGE PIT LINE No. 3 DRAINAGE PIT No. 17		
	HEADWALL		
	SLOPE JUNCTION		
	LIMIT OF CONSTRUCTION		
	CATCHMENT BOUNDARY		
	TREES TO BE REMOVED		

THIS DRAWING HAS BEEN REDUCED



Construction Notes

1. Strip the topsoil, level the site and compact the subgrade.
2. Cover the area with needle-punched geotextile.
3. Construct a 150 mm thick pad over the geotextile using road base or 30 mm aggregate.
4. Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres wide.
5. Where a sediment fence joins onto the stabilised access, construct a hump in the stabilised access to divert water to the sediment fence

STABILISED SITE ACCESS

N.T.S.

PRELIMINARY

ISSUE	DATE	DESCRIPTION	BY	VER	APP
01	05/02/10	PRELIMINARY	GW	TE	
		ISSUE DESCRIPTION			

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY SUPERINTENDANT PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.



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Sydney
Canberra
Brisbane
Melbourne
Singapore

APPROVAL	
BY:	
SIGN:	
DATE:	

Client:	MERITON APARTMENTS PTY. LTD.
Project:	14-18 BOONDAH ROAD WARRIWOOD

Drawing:		NOTES & LEGEND	
Drawn by:	KT	Scale:	
Design by:	GW	Project No:	X08066
Drawing No:	002	Issue:	01