

L1. STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED ASSUMING A DESIGN TRAFFIC LOADING OF 5×10^4 ESAL OVER A 20 YEAR DESIGN LIFE. REFER REPORT ON GEOTECHNICAL INVESTIGATION BY DOUGLAS PARTNERS PROPOSED VINCENTIA MARKET PLACE PROJECT 48846 JULY 2010.


C1. EXECUTE ALL CONCRETE WORK IN ACCORDANCE WITH A.S. 3600 AND THE STANDARDS REFERENCED THEREIN UNLESS OTHERWISE VARIED BY THE CONTRACT DOCUMENTS.

- C2. FORMWORK SHALL BE DESIGNED AND ERECTED IN ACCORDANCE WITH THE REQUIREMENTS AND RECOMMENDATIONS OF A.S. 3600 AND A.S. 3610. THE RESPONSIBILITY FOR THE ADEQUACY OF FORMWORK SHALL REST ENTIRELY WITH THE BUILDER.
- C3. REINFORCEMENT SHALL BE :
GRADE 500N IN ACCORDANCE WITH AS/NZS 4671.
GRADE 500 WELDED FABRIC IN ACCORDANCE WITH AS/NZS 4671.
- C4. ALL REINFORCEMENT SHALL BE SUPPORTED AND WIRED TOGETHER TO PREVENT DISPLACEMENT DURING CONSTRUCTION , BEYOND THE TOLERANCES SPECIFIED IN A.S. 3600.
- C5. REINFORCEMENT SHALL NOT BE HEATED OR WELDED ON SITE WITHOUT THE PROJECT ENGINEERS PRIOR APPROVAL.
- C6. MINIMUM CONCRETE COVER TO REINFORCEMENT SHALL BE:
40mm TOP, 50mm SIDE & BOTTOM
- C7. DO NOT EMBED ITEMS WITHIN THE REINFORCEMENT COVER, CAST IN ITEMS OR CHASES UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE PROJECT ENGINEER.
- C8. REINFORCEMENT NOTATION. (CIA STANDARD)
(NO. OFF|BAR TYPE|BAR DIA.) - (SHAPE) - (SPACING|LOCATION)

TYPE/GRADE:	SHAPE CODES			
L - GRADE 500F WIRE MESH	S			
R - GRADE 230R ROUND BAR.	L	T		HT
S - GRADE 230S DEFORMED BAR	H			
N - GRADE 500 DEFORMED BAR.	V	SH		XT
LOCATION:	U			
T - TOP	J			
B - BOTTOM	RC	SC		CT
H - HORIZONTAL	LL			
V - VERTICAL	CC	RT		LH
EW - EACH WAY	NS	AS		
EF - EACH FACE				
NF - NEAR FACE				
FF - FAR FACE				

- C9. REINFORCEMENT SPLICE & COG LENGTHS:
MINIMUM REINFORCEMENT LAPS/SPLICE LENGTHS (l_1) UNLESS NOTED OTHERWISE

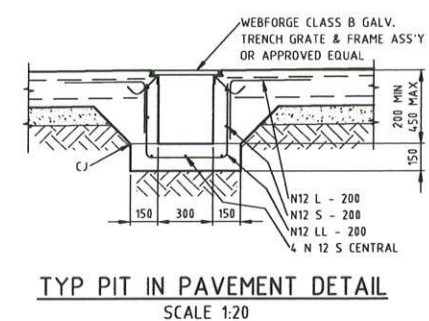
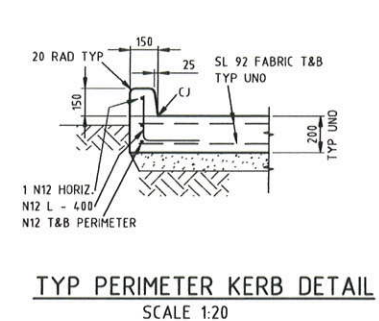
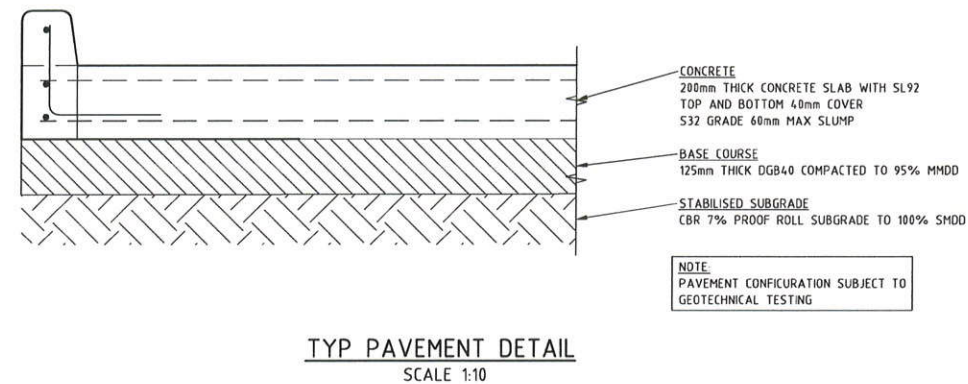
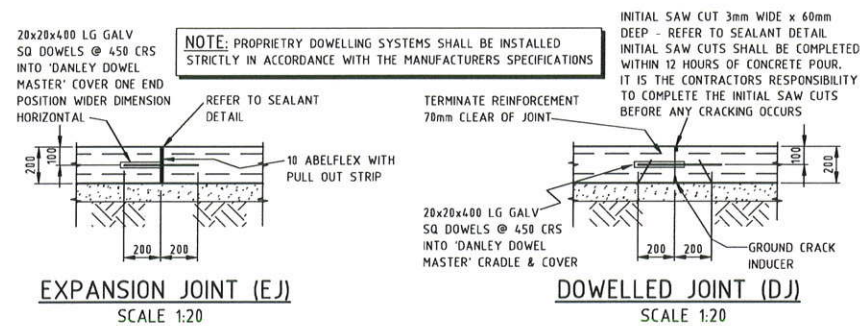
	SLABS/BEAMS	COLUMNS/WALLS
N12	500mm	400mm
N16	600mm	500mm
N20	700mm	600mm




MINIMUM REINFORCEMENT COG LENGTHS (L₁) UNLESS NOTED OTHERWISE

N12	300mm
N16	300mm
N20	350mm

- C10. DETAILS OF ALL CONCRETE MIXES TO BE PROVIDED FOR ACCEPTANCE PRIOR TO COMMENCEMENT OF CONSTRUCTION. THIS TO INCLUDE DETAILS OF QUANTITY & TYPE OF CEMENT, AGGREGATE & ADMIXTURES.
- C11. THE CONTRACTOR SHALL SEEK & OBTAIN ACCEPTANCE OF METHODS FOR PLACING, FINISHING AND CURING CONCRETE INCLUDING THE FOLLOWING:
- READY MIXED CONCRETE SUPPLIER
 - HANDLING, PLACING, COMPACTION AND FINISHING METHODS AND EQUIPMENT
 - TEMPERATURE CONTROL METHODS
 - CURING AND PROTECTION METHODS
- C12. READY MIXED CONCRETE SUPPLY SHALL BE IN ACCORDANCE WITH AS 1379 BY THE BATCH PRODUCTION PROCESS.
- DO NOT ADD WATER AT SITE WITHOUT THE PRIOR APPROVAL OF THE ENGINEER
- C13. CONSOLIDATE ALL CONCRETE WITH HIGH SPEED IMMERSION VIBRATORS. DO NOT USE VIBRATORS TO MOVE CONCRETE ACROSS FORMS.
- TENDERERS SHALL ALLOW TO HAVE A STANDBY MEANS OF PLACING CONCRETE IN THE EVENT OF A CONCRETE PUMP BREAKDOWN DURING THE MAIN POUR.
- C14. CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON DRAWINGS.
- C15. ALL CONCRETE SHALL BE S32 GRADE UNLESS NOTED OTHERWISE - MAX SLUMP = 60mm (PUMPING PERMITTED IF PLASTICISERS USED - MAX SLUMP = 80mm)
- C16. TESTING AND ASSESSMENT OF CONCRETE AND CONCRETE MATERIALS SHALL BE CARRIED OUT BY AN ORGANISATION REGISTERED WITH THE NATIONAL ASSOCIATION OF TESTING AUTHORITIES (AUSTALIA (NATA) TO PREFORM THE SPECIFIED TESTING.
- TEST RECORDS: FOR EACH REQUIRED TEST MAINTAIN THE RECORDS AND REPORTS OF TEST RESULTS REQUIRED BY A.S. 1012.
- C17. WHERE THE ENGINEERS ARE ENGAGED TO INSPECT REINFORCEMENT AND/OR SUPERVISE A CONCRETE POUR, A MINIMUM OF 24 HOURS NOTICE SHALL BE GIVEN AND ALL PREPARATORY WORK SHALL HAVE BEEN COMPLETED.



 **NSW GOVERNMENT
Planning**

Issued under the Environmental Planning and Assessment Act 1979


Approved Section 75W Modification Application

No. 3 granted on the 8 AUG 2011

in respect to MP. 06-0025

Signed J. Phillips

Sheet No. 43 of 48

REV	DATE	BY	APP.	DETAILS	DRAWING STATUS			SCALE: (on A1 Original)	 278 KEIRA STREET, WOLLONGONG, NSW 2500 Ph: (02) 4228 4133 Facsimile: (02) 4228 6811 ACN 003 936 981 <i>This drawing is subject to COPYRIGHT. It remains the property of Forbes Rigby Pty Ltd</i>	PROJECT TITLE	DRAWING TITLE				
					DESIGN BY	CSH	14/07/10	AS NOTED		VINCENTIA DISTRICT CENTRE SHOPPING CENTRE PA	CONCRETE PAVEMENT NOTES AND DETAILS PLAN				
					DRAWN BY	CJG	14/07/10				VINCENTIA				
					DRAFTING CHECK	PJS	16/07/10				for				
					DESIGN CHECK	MAK	16/07/10				FABCOT PTY LTD				
					FINAL APPROVAL	MAK	16/07/10	HEIGHT DATUM AHD			Project No.	Com No.	Drawing No.	REV	
					PRELIMINARY			MODIFICATION #3 ISSUE MARCH 2011			104016	46	46889	PO	



Issued under the Environmental Planning and Assessment Act 1979

Approved Section 75W Modification Application

No. 3 granted on the 8 AUG 2011

PROVIDE VEHICLE RUMBLE
GRID & STABILIZER ACCESS
TO MOON CREEK ROAD

Signed.

Sheet No. 44 of 48

RETAIN TEMPORARY SEDIMENT DETENTION BASIN AS DIRECTED FOR DURATION OF STAGE 2A WORKS (MIN VOLUME 2,000 m3). FOLLOWING ALL UPSTREAM CONSTRUCTION WORKS THE SEDIMENT DETENTION BASIN WILL BE REFORMED INTO A WETLAND POND.

CONSTRUCT TEMPORARY SEDIMENT
DETENTION BASIN SPILLWAY AND
TRANSITION TO NATURAL DRAINAGE
PATH WITH SCOUR PROTECTION TO
PREVENT EROSION.

PROVIDE RETURNS IN THE SEDIMENT
FENCE EVERY 20m IN ACCORDANCE
WITH THE BLUE BOOK

CONSTRUCT TEMPORARY PIPED EXTENSION OF CULVERT TO BYPASS UPSTREAM CLEAN WATER FLOWS AROUND TEMPORARY SEDIMENT BASIN. TEMPORARY PIPE TO DISCHARGE TO NATURAL DRAINAGE PATH DOWNSTREAM OF POND WITH APPROPRIATE SCOUR PROTECTION TO PREVENT EROSION.

CONSTRUCT TEMPORARY DIVERSION DRAIN
TO COLLECT WATER FROM DISTURBED
AREA AND DIRECT TO SEDIMENT BASIN

CONSTRUCT TEMPORARY DIVERSION DRAIN
TO COLLECT WATER FROM DISTURBED
AREA AND DIRECT TO SEDIMENT BASIN

CONSTRUCT CULVERT TO CONVEY UPSTREAM CLEAN WATER FLOWS BENEATH ROAD AND AWAY FROM TEMPORARY SEDIMENT BASIN FOR THE DURATION OF CONSTRUCTION WORKS. CONTRACTOR TO CONSTRUCT TEMPORARY PIPE DISCHARGE SCOUR PROTECTION TO PREVENT EROSION.

PROVIDE RETURNS IN THE SEDIMENT
FENCE EVERY 20m IN ACCORDANCE
WITH THE BLUE BOOK

PROVIDE VEHICLE RUMBLE
GRID & STABILISED SITE
ACCESS TO THE WOOL ROAD

CONSTRUCT TRANSITION OF EXISTING DRAINAGE
PATH TO CENTRAL BOARDWALK DRAINAGE
STRUCTURE. CENTRAL BOARDWALK DRAINAGE
CHANNEL AND PIPE TO CONVEY CLEAN WATER
RUNOFF FROM UPSTREAM OF SITE FOR
DURATION OF WORKS.

CONSTRUCT TEMPORARY DIVERSION
MOUND AS PER DETAIL ON DRG 46829
TO DIVERT ALL CLEAN WATER AWAY
FROM CONSTRUCTION WORKS.

NAVAL COLLEGE RD

CONSTRUCT TEMPORARY DIVERSION
MOUND AS PER DETAIL ON DRG 46829
TO DIVERT ALL CLEAN WATER AWAY
FROM CONSTRUCTION WORKS

THE WOOL RD

STAGING OF THE WORKS

IMPLEMENTATION - STAGE 1B WORKS:

1. CONSTRUCT STABILISED SITE ACCESS.
2. INSTALL OF SEDIMENT FENCE TO PERIMETER OF SITE AND AS INDICATED ON SWMP.
3. CONSTRUCT TEMPORARY CLEAN WATER PIPED DIVERSION AS EXTENSION OF STAGE 1 CULVERT TO WETLAND. TEMPORARY PIPE EXTENSION TO BYPASS SEDIMENT BASIN.
4. CONSTRUCT SEDIMENT BASIN OF MINIMUM VOLUME 2,000m³.
5. CONSTRUCT TEMPORARY CLEAN AND DIRTY WATER EARTH DRAINS AND ROCK CHECK DAMS AS INDICATED ON SWMP.









REMOVAL:

1. ENSURE ALL SOILS ARE STABILISED TO THE SATISFACTION OF THE SUPERINTENDENT.
2. REMOVE SEDIMENT FROM SEDIMENT BASIN AND CONVERT INTO CONSTRUCTED WETLAND.
3. COMMISSION STAGE 1B PIPED STORMWATER SYSTEM COMPONENTS.
4. REMOVE REMAINING TEMPORARY EARTH DRAINS AND ROCK CHECK DAMS.
5. DECOMMISSION OTHER TEMPORARY SOIL CONSERVATION WORKS.

FLOCCULATION

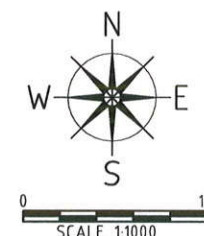
1. WATERS IN SEDIMENT BASINS WILL BE FLOCCULATED AND DISCHARGED WHEN ONE QUARTER OF THE BASINS ARE OCCUPIED.
2. BASIN STORAGE CAPACITY IS TO BE MAINTAINED AT ALL TIMES WITHIN 5 DAYS OF A RAINFALL EVENT.
3. WATER IS TO BE TESTED BY FILLING A CLEAR PLASTIC 65mm DIAMETER SOFT DRINK BOTTLE WITH THE WATER AND HELD UP TO THE LIGHT, IF SEEING VERY CLEARLY THROUGH THE SAMPLE IS NOT POSSIBLE, IT IS PROBABLY ABOVE 50mg/L OF SUSPENDED SOLIDS AND THEREFORE REQUIRES TREATMENT.
4. WATERS WILL BE TREATED WITH GYPSUM WHERE THEY CONTAIN MORE THAN 50mg/L OF SUSPENDED SOLIDS.
5. DOSE WATER IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, TYPICALLY 30kg PER 10003 OF WATER.
6. FOLLOWING FLOCCULATION, ANOTHER CLEAR BOTTLE TEST AND APPROVAL FROM THE SUPERINTENDENT, WATER IS TO BE PUMPED OUT OF THE SEDIMENT BASIN AND DISCHARGED VIA THE SCOUR PROTECTION IMMEDIATELY DOWNSTREAM OF THE SEDIMENT BASIN.

LEGEND



-  SILT FENCE (REFER TO DETAIL ON DWG 46829)
 TEMPORARY EARTH DRAIN (CLEAN WATER)
 TEMPORARY EARTH DRAIN (DIRTY WATER)
 BOARDWALK DRAINAGE CHANNEL CLEAN WATER DIVERSION
 PIPED CLEAN WATER DIVERSION
 ROCK CHECK DAM (REFER TO DETAIL ON DWG 46829)
 ROCK CHECK DAM (SILT FENCE LINED)
 NOMINATED STOCKPILE AREA

GENERAL NOTES

1. ALL SURFACE WATER AND EROSION AND SEDIMENT CONTROL MEASURES AS DETAILED ON THE APPROVED MANAGEMENT PLANS MUST BE IN PLACE BEFORE THE COMMENCEMENT OF CONSTRUCTION AND CONTINUE TO OPERATE AFTER COMPLETION OF THE CONSTRUCTION UNTIL THE VEGETATION IS ESTABLISHED.
2. MEASURES USED TO MANAGE EROSION AND SEDIMENT CONTROL WILL INCLUDE:
 - a. AN OSO BASIN TO POND DIRTY RUNOFF FROM DISTURBED AREAS AND EXISTING UPSTREAM CATCHMENT. SEDIMENT WILL SETTLE OUT OF SUSPENSION IN THIS POND.
 - b. SEDIMENT CONTROL FENCES TO FILTER RUNOFF FROM DISTURBED AREAS AND STOCKPILES.
 - c. CHECK DAMS TO FILTER LARGER FLOWS OF SEDIMENT LADEN RUNOFF TO TRAP SEDIMENT.
 - d. HAY BALE SEDIMENT TRAPS TO RECEIVE SMALLER FLOWS OF SEDIMENT LADEN RUNOFF TO TRAP SEDIMENT.
3. ALL SITE RUNOFF SHOULD BE DISCHARGED INTO GRASSED FIELDS, SEDIMENTATION TRAPS, OR CHECK DAMS DOWN SLOPE OF DISTURBED AREAS TO COLLECT, CONVEY AND TREAT SEDIMENT-LADEN RUNOFF.
4. SILT FENCES SHOULD BE INSTALLED ON THE DOWNSLOPE SIDE OF ALL STOCKPILES.
5. MEASURES SHALL BE TAKEN TO MINIMISE THE RISK OF EROSION TO DISTURBED AREAS. BARE AREAS SHOULD BE STABILISED WITHIN 14 DAYS OF THE COMPLETION OF CONSTRUCTION ACTIVITIES. TEMPORARY STABILISATION TECHNIQUES SUCH AS EROSION MATTING, SEDIMENT SCREENS, HAY BALE ENERGY DISSIPATORS, MULCHING, HYDROSEEDING AND GRASS SPECIES ESTABLISHMENT SHOULD BE IMPLEMENTED ON DISTURBED AREAS AS REQUIRED.
6. WEEKLY INSPECTION AND MAINTENANCE OF ALL WORKS AND REHABILITATED AREAS SHALL BE UNDERTAKEN.
7. WETLAND VEGETATION SHALL OCCUR AS SOON AS PRACTICAL AFTER CONSTRUCTION.
8. FOLLOWING SUCCESSFUL REVEGETATION AND AFTER INSPECTION BY THE SUPERINTENDENT'S WATER QUALITY REPRESENTATIVE, TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED. THIS MAY INVOLVE CLEANING AND REMOVAL OF DIVERSION WORKS, SEDIMENT TRAPS AND CHECK DAMS.
9. EROSION AND SEDIMENT CONTROL STRUCTURES TO BE INSPECTED WEEKLY AND IMMEDIATELY AFTER EVERY STORM AND RUNOFF EVENT TO CHECK THEY ARE OPERATING SATISFACTORILY AND TO SCHEDULE ANY MAINTENANCE WORK AND REPAIRS THAT MAY BE REQUIRED. WEEKLY MAINTENANCE WILL INCLUDE:
 - a. SEDIMENT REMOVAL FROM DRAINS AND CHECK DAMS.
 - b. REPLACEMENT AS REQUIRED.
 - c. DESIGN TO BE CHECKED AND PLANS SUBMITTED TO COUNCIL CONFIRMING ADEQUACY OF ANY UPGRADE OR ADDITIONAL CONTROLS REQUIRED IF IN PLACE MEASURES ARE INADEQUATE.
10. WATER CART TO BE AVAILABLE ON SITE FOR DUST REDUCTION PURPOSES AS REQUIRED.
11. ANY INCIDENTS ON SITE LIKELY TO CAUSE POLLUTION (FUEL, CHEMICALS, STORMWATER ETC) MUST BE REPORTED IMMEDIATELY TO THE SUPERINTENDENT.
12. ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH "MANAGING STORMWATER, SOIL & CONSTRUCTION" PRODUCED BY THE NSW DEPARTMENT OF HOUSING. (THE BLUE BOOK)
13. THIS PLAN SHOWS TYPICAL SOIL & WATER MANAGEMENT MEASURES THAT WILL BE REQUIRED BUT IS NOT INTENDED TO LIMIT THE CONTRACTOR TO ANY PARTICULAR CONSTRUCTION METHODOLOGY.
14. ANY REVEGETATED AREAS WHICH FAIL TO ESTABLISH WITHIN THREE MONTHS MUST BE RE-SOWN.
15. EARTHWORKS AND TRENCHING TO BE STAGED TO KEEP WORK AREAS TO A MANAGEABLE SIZE
16. EXCAVATED MATERIAL FROM TRENCHES TO BE STOCKPILED UPHILL OF TRENCH UNTIL BACKFILLING
17. PUBLIC ROADS TO BE KEPT CLEAR OF DEBRIS AT ALL TIMES. CONTRACTOR TO PROVIDE SHAKER PAD FOR VEHICLES ENTERING/LEAVING SITE.
18. HAYBALE SEDIMENT BARRIERS AND SEDIMENT TRAPS ARE TO BE PROVIDED AROUND ALL PITS DURING AND FOLLOWING CONSTRUCTION. BARRIERS AND TRAPS CAN BE REMOVED UPON SUCCESSFUL REVEGETATION UPSTREAM AS DIRECTED BY THE SUPERINTENDENT.



NOT FOR CONSTRUCTION

REV	DATE	BY	APP.	DETAILS	DRAWING STATUS			MODIFICATION #3 ISSUE MARCH 2011	SCALE: (on A1 Original)	 	PROJECT TITLE VINCENTIA DISTRICT CENTRE SHOPPING CENTRE PA VINCENTIA for FABCOT PTY LTD	DRAWING TITLE SOIL AND WATER MANAGEMENT PLAN SHEET 1 OF 2					
					DESIGN BY	MAK	16/07/10		1:1000					Project No. 104016	Com No. 46	Drawing No. 46890	REVISION NO. P0
					DRAWN BY	AJM	16/07/10										
					DRAFTING CHECK	CJG	16/07/10										
					DESIGN CHECK	MAK	16/07/10										
					FINAL APPROVAL	MAK	16/07/10		HEIGHT DATUM AHD								
					PRELIMINARY												



Approved Section 75W Modification Application

in respect to MP...06-0025

Signed.....*A. Phua*

Sheet No. 45 of 48

CONSTRUCT TEMPORARY DIVERSION DRAIN
TO COLLECT WATER FROM DISTURBED
AREA AND DIRECT TO SEDIMENT BASIN

CONSTRUCT TEMPORARY SEDIMENT
DETENTION BASIN SPILLWAY AND
TRANSITION TO NATURAL DRAINAGE
PATH WITH SCOUR PROTECTION TO
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RETAIN TEMPORARY SEDIMENT DETENTION BASIN AS DIRECTED FOR DURATION OF STAGE 2A WORKS (MIN VOLUME 2,000 m3). FOLLOWING ALL UPSTREAM CONSTRUCTION WORKS THE SEDIMENT DETENTION BASIN WILL BE REFORMED INTO A WETLAND POND.

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BOARDWALK DRAINAGE CHANNEL TO
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DURATION OF CONSTRUCTION WORKS

CONSTRUCT TEMPORARY PIPED EXTENSION OF CULVERT TO BYPASS UPSTREAM CLEAN WATER FLOWS AROUND TEMPORARY SEDIMENT BASIN. TEMPORARY PIPE TO DISCHARGE TO NATURAL DRAINAGE PATH DOWNSTREAM OF POND WITH APPROPRIATE SCOUR PROTECTION TO PREVENT EROSION.

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IMPLEMENTATION - STAGE 1B WORKS:

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REMOVAL:

1. ENSURE ALL SOILS ARE STABILISED TO THE SATISFACTION OF THE SUPERINTENDENT.
2. REMOVE SEDIMENT FROM SEDIMENT BASIN AND CONVERT INTO CONSTRUCTED WETLAND.
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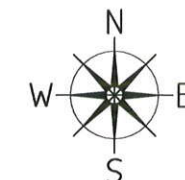
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 TEMPORARY EARTH DRAIN (DIRTY WATER)
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REV	DATE	BY	APP.	DETAILS	DRAWING STATUS		
					DESIGN BY	MAK	16/07/10
					DRAWN BY	AJM	16/07/10
					DRAFTING CHECK	CJG	16/07/10
					DESIGN CHECK	MAK	16/07/10
					FINAL APPROVAL	MAK	16/07/10
					PRELIMINARY		

MODIFICATION
#3 ISSUE
MARCH 2011

SCALE:
(on A1 Original)

1:1000

HEIGHT DATUM
AHD



LEVEL 1, BURELLI STREET, WOLLONGONG, NSW 2500
Ph: (02) 4228 4133 Facsimile: (02) 4228 6811 ACN 003 936 981
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PROJECT TITLE
VINCENTIA DISTRICT CENTRE
SHOPPING CENTRE PA
VINCENTIA
for
FABCOT PTY LTD

DRAWING TITLE
SOIL AND WATER
MANAGEMENT PLAN
SHEET 2 OF 2

Project No. 104016	Com No. 46	Drawing No. 46891	RE PC
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