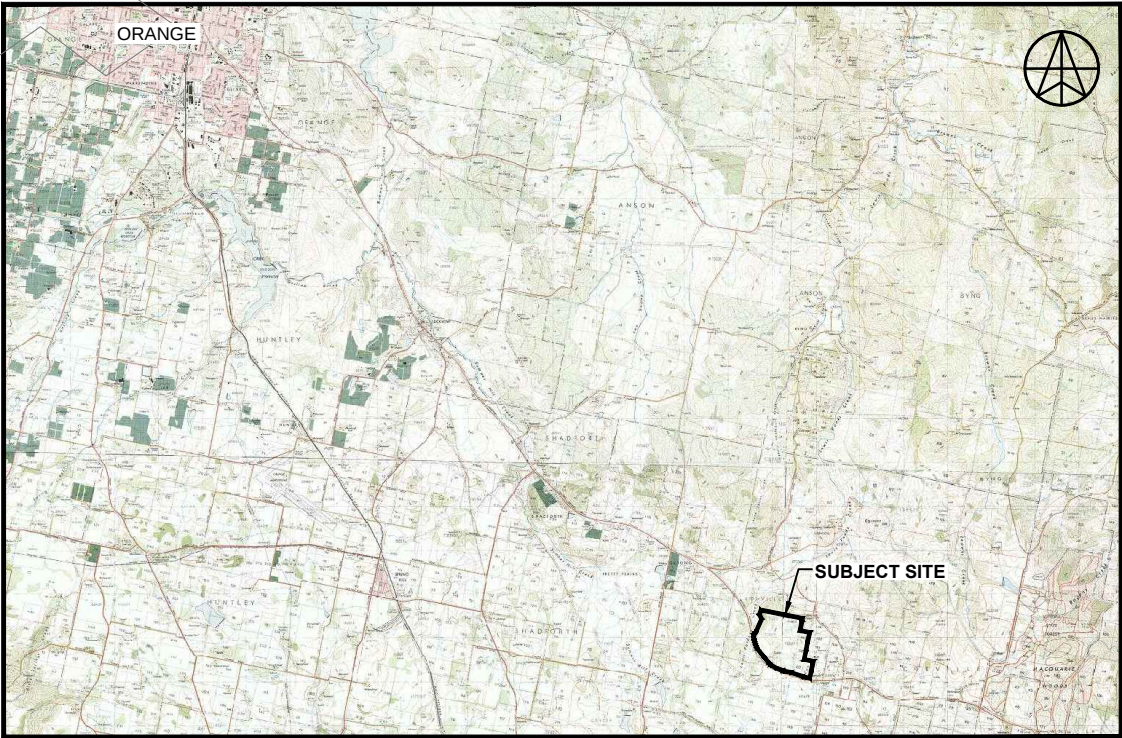


GUYONG HARD ROCK QUARRY
MITCHELL HIGHWAY, EAST GUYONG
HANSON CONSTRUCTION MATERIALS PTY LTD
INFRASTRUCTURE AREA AND ACCESS ROAD
BULK EARTHWORKS CONSTRUCTION PLANS

SCHEDULE OF DRAWINGS			
SHEET	TITLE	REV.	DATE
E01	TITLE SHEET, DRAWING LIST, AND SITE LOCALITY	B	26/10/2012
E02	BASE SURVEY	B	26/10/2012
E03	OVERALL LAYOUT PLAN	B	26/10/2012
E04	INFRASTRUCTURE AREA LAYOUT PLAN	B	26/10/2012
E05	INFRASTRUCTURE AREA TYPICAL SECTIONS	B	26/10/2012
E06	ACCESS ROAD PLAN AND LONGITUDINAL SECTION SHEET 1 OF 3	B	26/10/2012
E07	ACCESS ROAD PLAN AND LONGITUDINAL SECTION SHEET 2 OF 3	B	26/10/2012
E08	ACCESS ROAD PLAN AND LONGITUDINAL SECTION SHEET 3 OF 3	B	26/10/2012
E09	ACCESS ROAD CROSS SECTIONS SHEET 1 OF 4	B	26/10/2012
E10	ACCESS ROAD CROSS SECTIONS SHEET 2 OF 4	B	26/10/2012
E11	ACCESS ROAD CROSS SECTIONS SHEET 3 OF 4	B	26/10/2012
E12	ACCESS ROAD CROSS SECTIONS SHEET 3 OF 4	B	26/10/2012
E13	STOCK GRID DETAILS, ACCESS ROAD TYPICAL SECTION & PAVEMENT DETAILS	B	26/10/2012
E14	STORMWATER TYPICAL DETAILS	B	26/10/2012
E15	EROSION AND SEDIMENT CONTROL PLAN	B	26/10/2012
E16	EROSION AND SEDIMENT CONTROL FIGURES	B	26/10/2012



SITE LOCALITY
NOT TO SCALE

No.	DATE	DRAFTING CHECK	PM CHECK	DETAILS
A	28/09/12	MY	PPO	ISSUED TO CLIENT
B	26/10/12	MY	PPO	INFRASTRUCTURE AREA PAVEMENT THICKNESS REDUCED TO 300

CHECKED/APPROVED	NAME	DATE
APPROVED	PPO	26/10/2012
SURVEY	PDC	03/08/2012
DESIGNER	PPO	26/10/2012
DRAFTING	MY	26/10/2012

APPROVAL AUTHORITY

CLIENT	HANSON CONSTRUCTION MATERIALS PTY LTD
PROJECT	GUYONG HARD ROCK QUARRY INFRASTRUCTURE AREA AND ACCESS ROAD



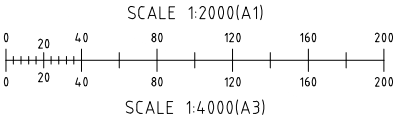
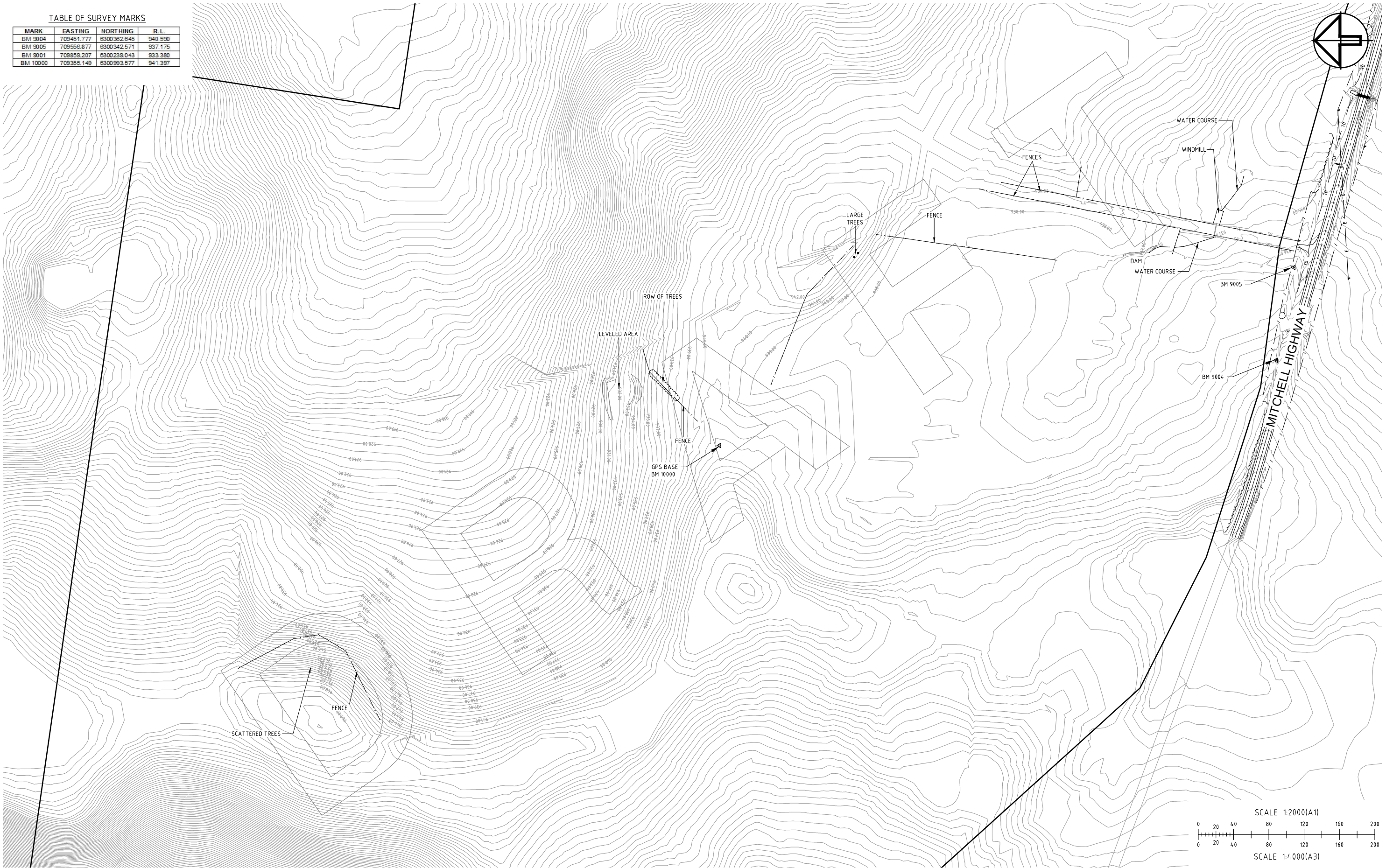
GEOLYSE
ORANGE
orange@geolyse.com
www.geolyse.com

154 PEISLEY STREET
P.O. BOX 1963
ORANGE, NSW 2800
Ph. (02) 6393 5000
Fx. (02) 6393 5050

DRAWING TITLE SHEET, DRAWING LIST, AND SITE LOCALITY			
PERMANENT MARK:	RL:	DATUM:	A.H.D.
PROJECT NUMBER: 211023	DRAWING SHEET: 09B_E01	ORIGINAL A1	REVISION
AUTOCAD FILE: 211023_09B_E01-E16.dwg	CIVIL3D FILE: 211023_02E_MASTER_DESIGN.dwg	STATUS: FOR REVIEW	SHEET E01 OF E16 B

TABLE OF SURVEY MARKS

MARK	EASTING	NORTHING	R.L.
BM 9004	709451.777	6300352.645	940.590
BM 9005	709556.877	6300342.571	937.175
BM 9001	709859.207	6300239.043	933.380
BM 10000	709355.149	6300993.577	941.397



No.	DATE	DRAFTING CHECK	PM CHECK	DETAILS
A	28/09/12	MY	PPD	ISSUED TO CLIENT
B	26/10/12	MY	PPD	INFRASTRUCTURE AREA PAVEMENT THICKNESS REDUCED TO 300

CHECKED/APPROVED	NAME	DATE
APPROVED	PPD	26/10/2012
SURVEY	PDC	03/08/2012
DESIGNER	PPD	26/10/2012
DRAFTING	MY	26/10/2012

APPROVAL AUTHORITY

CLIENT
HANSON CONSTRUCTION MATERIALS PTY LTD
PROJECT
GUYONG HARD ROCK QUARRY INFRASTRUCTURE AREA AND ACCESS ROAD



DRAWING			
PERMANENT MARK: _		RL: _	DATUM: A.H.D.
PROJECT NUMBER: 211023	DRAWING SHEET: 09B_E02	ORIGINAL A1	REVISION B
AUTOCAD FILE: 211023_09B_E01-E16.dwg	CIVIL3D FILE: 211023_02E_MASTER_DESIGN.dwg	STATUS: FOR REVIEW	
SHEET E02 OF E16			

CONSTRUCTION NOTES:

- ALL BULK EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 3798.
- LEVEL 1 SAMPLING AND TESTING AS DEFINED BY AS 3798 SHALL APPLY FOR ALL BULK EARTHWORKS OR AS DIRECTED BY THE SUPERINTENDENT.
- STRIP ALL FILL AND TOPSOIL TO EXPOSE NATURALLY OCCURRING SURFACE (APPROX. 200mm) AND STOCKPILE ONSITE FOR REUSE IN LANDSCAPING AND FUTURE REHABILITATION OF SITE.
- THE EXPOSED SUBGRADE SHALL BE PROOF ROLLED IN THE PRESENCE OF THE SUPERINTENDENT.
- ALL SOFT, WET OR UNSUITABLE MATERIAL TO BE REMOVED AS DIRECTED BY SUPERINTENDENT AND REPLACED WITH APPROVED MATERIAL WITH A MINIMUM CBR VALUE OF 10%.
- IMPORTED FILL SHALL BE CLEAN, WELL GRADED MATERIAL WITH A MINIMUM CBR VALUE OF 10% PROPOSED FILL MATERIALS SHALL BE ASSESSED BY THE SUPERINTENDENT TO DETERMINE SUITABILITY PRIOR TO USE AT THE SITE.
- ALL FILL LAYERS SHALL BE PLACED IN MAXIMUM 250mm THICK LAYERS OR AS APPROPRIATE TO THE SIZE AND TYPE OF MACHINERY BEING USED. FILL SHALL BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% RELATIVE STANDARD COMPACTION AT A MOISTURE RATIO BETWEEN 60%-90% OF THE OPTIMUM MOISTURE CONTENT.
- THE SEDIMENT BASIN SHALL BE OVER EXCAVATED TO ENABLE PLACEMENT OF A MINIMUM 300mm THICK CLAY LINER. CLAY MATERIAL FOR THE LINER SHALL BE SOURCED OFFSITE AND ASSESSED BY THE SUPERINTENDENT TO DETERMINE SUITABILITY PRIOR TO USE. THE CLAY LINER SHALL BE PLACED IN MAXIMUM 250mm THICK LAYERS OR AS APPROPRIATED TO THE SIZE AND TYPE OF MACHINERY USED. THE CLAY LINER SHALL BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% RELATIVE STANDARD COMPACTION AT A MOISTURE RATIO 80% -10% OF THE OPTIMUM MOISTURE CONTENT.
- THE BASE AND SUB-BASE PAVEMENT MATERIALS SHALL COMPLY WITH RMS SPECIFICATION 3051 OR AS APPROVED BY THE SUPERINTENDENT. THE PAVEMENT BASE, SUB-BASE AND SELECT SHALL BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 102% RELATIVE STANDARD COMPACTION AT A MOISTURE RATIO 60% - 90% OF THE OPTIMUM MOISTURE CONTENT.
- THE CONTRACTOR SHALL PROGRAM THE EARTHWORKS OPERATIONS 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 PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR NOT OBSERVING THESE REQUIREMENTS WILL BE RECTIFIED AT THE CONTRACTORS COST.
- EROSION AND SEDIMENTATION CONTROL SHALL BE IMPLEMENTED IN ACCORDANCE WITH SHEET E13 AND IN ACCORDANCE WITH THE LANDCOM "BLUE BOOK".
- ALL EXPOSED BATTERS SHALL BE TOPSOILED, SEEDED, AND FERTILISED IN ACCORDANCE WITH THE LANDSCAPE PLAN BY CORKERY & CO P/L.

BULK EARTHWORKS QUANTITIES NOTES:

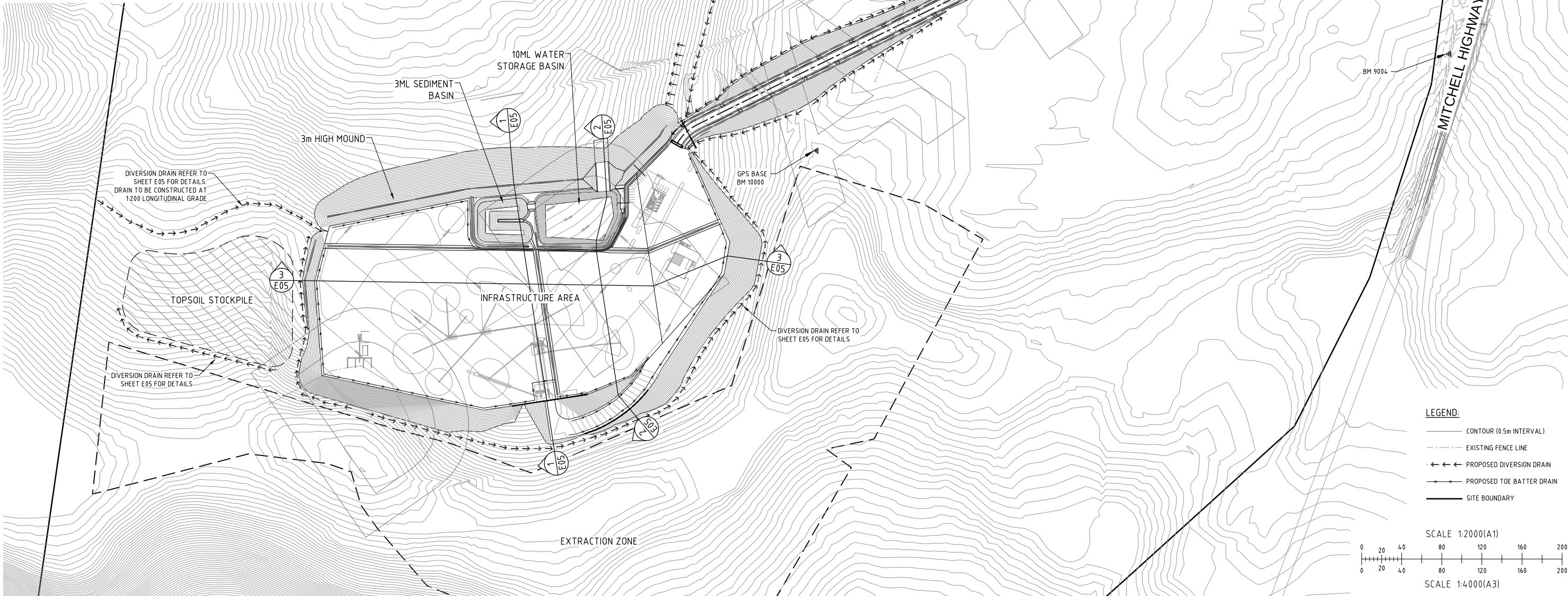
- EARTHWORKS QUANTITIES SHOWN BELOW ARE IN-SITU QUANTITIES AND DO NOT MAKE ALLOWANCE FOR ANY BULKING OR COMPACTION FACTORS.
- QUANTITIES HAVE BEEN CALCULATED BASED ON AN AVERAGE STRIPPING DEPTH OF 200mm.
- THESE QUANTITIES ARE PROVIDED AS A GUIDE ONLY AND ARE SUBJECT TO VERIFICATION ONSITE.

BULK EARTHWORKS QUANTITIES

Stripping (200mm)	29,500
Cut	183,300
Fill	200,300
Balance	-17,000
Pavement	27,200
Clay Liner	660

TABLE OF SURVEY MARKS

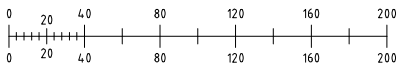
MARK	EASTING	NORTHING	R.L.
BM 9004	709461.777	8300362.645	940.690
BM 9005	709566.877	8300342.571	937.175
BM 9001	709869.207	8300239.043	933.380
BM 10000	709365.149	8300993.577	941.397



LEGEND:

- CONTOUR (0.5m INTERVAL)
- EXISTING FENCE LINE
- PROPOSED DIVERSION DRAIN
- PROPOSED TOE BATTER DRAIN
- SITE BOUNDARY

SCALE 1:2000(A1)



SCALE 1:4,000(A3)

No.	DATE	DRAFTING CHECK	PM CHECK	DETAILS
A	28/09/12	MY	PPD	ISSUED TO CLIENT
B	26/10/12	MY	PPD	INFRASTRUCTURE AREA PAVEMENT THICKNESS REDUCED TO 300

CHECKED/APPROVED	NAME	DATE
APPROVED	PPD	26/10/2012
SURVEY	PDC	03/08/2012
DESIGNER	PPD	26/10/2012
DRAFTING	MY	26/10/2012

APPROVAL AUTHORITY

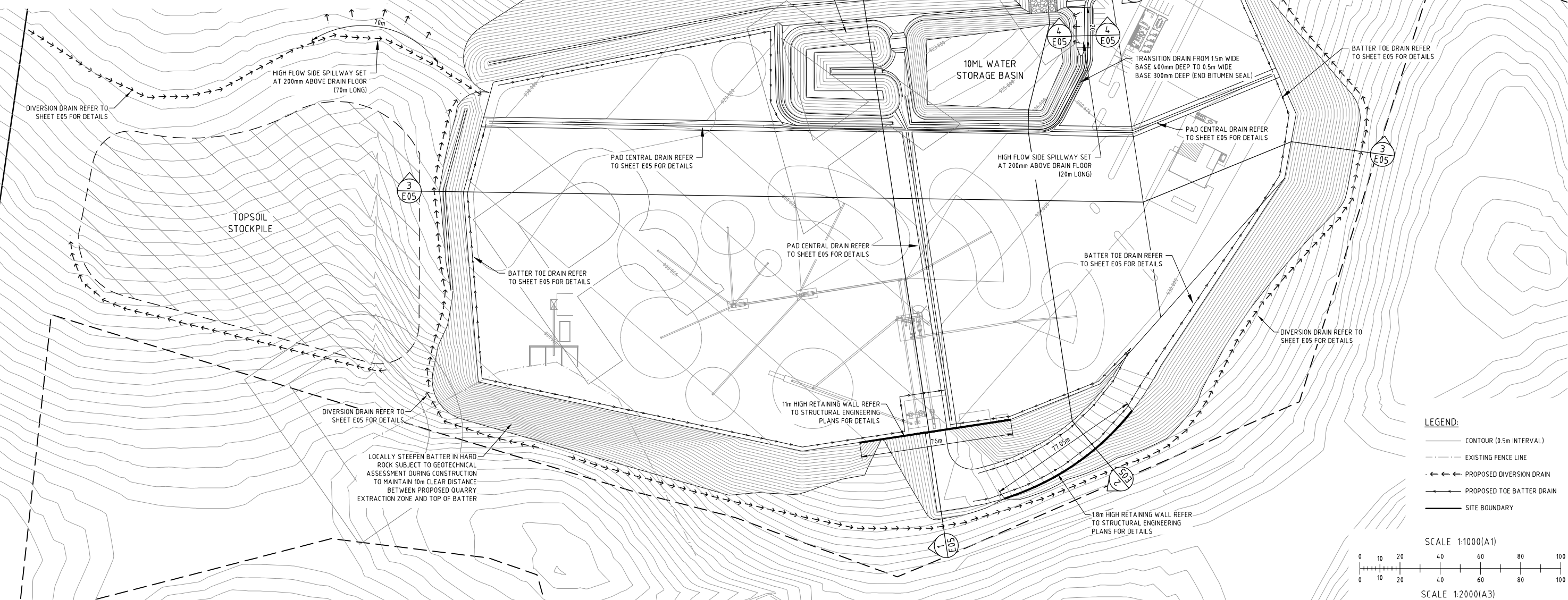
CLIENT
HANSON CONSTRUCTION MATERIALS PTY LTD
PROJECT
GUYONG HARD ROCK QUARRY INFRASTRUCTURE AREA AND ACCESS ROAD



DRAWING			
OVERALL LAYOUT PLAN			
PERMANENT MARK: -	RL: -	DATUM: A.H.D.	
PROJECT NUMBER: 211023	DRAWING SHEET: 09B_E03	ORIGINAL A1	
AUTOCAD FILE: 211023_09B_E03-E16.dwg	CIVIL3D FILE: 211023_09B_MASTER_DESIGN.dwg	REVISION	
STATUS: FOR REVIEW	SHEET E03 OF E16	B	

CONSTRUCTION NOTES:

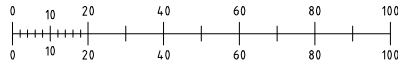
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- LEVEL 1 SAMPLING AND TESTING AS DEFINED BY AS 3798 SHALL APPLY FOR ALL BULK EARTHWORKS OR AS DIRECTED BY THE SUPERINTENDENT.
- STRIP ALL FILL AND TOPSOIL TO EXPOSE NATURALLY OCCURRING SURFACE (APPROX. 200mm) AND STOCKPILE ONSITE FOR REUSE IN LANDSCAPING AND FUTURE REHABILITATION OF SITE.
- THE EXPOSED SUBGRADE SHALL BE PROOF ROLLED IN THE PRESENCE OF THE SUPERINTENDENT.
- ALL SOFT, WET OR UNSUITABLE MATERIAL TO BE REMOVED AS DIRECTED BY SUPERINTENDENT AND REPLACED WITH APPROVED MATERIAL WITH A MINIMUM CBR VALUE OF 10%.
- IMPORTED FILL SHALL BE CLEAN, WELL GRADED MATERIAL WITH A MINIMUM CBR VALUE OF 10% PROPOSED FILL MATERIALS SHALL BE ASSESSED BY THE SUPERINTENDENT TO DETERMINE SUITABILITY PRIOR TO USE AT THE SITE.
- ALL FILL LAYERS SHALL BE PLACED IN MAXIMUM 250mm THICK LAYERS OR AS APPROPRIATE TO THE SIZE AND TYPE OF MACHINERY BEING USED. FILL SHALL BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% RELATIVE STANDARD COMPACTION AT A MOISTURE RATIO BETWEEN 60%-90% OF THE OPTIMUM MOISTURE CONTENT.
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- THE BASE AND SUB-BASE PAVEMENT MATERIALS SHALL COMPLY WITH RMS SPECIFICATION 3051 OR AS APPROVED BY THE SUPERINTENDENT. THE PAVEMENT BASE, SUB-BASE AND SELECT SHALL BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 102% RELATIVE STANDARD COMPACTION AT A MOISTURE RATIO 60% - 90% OF THE OPTIMUM MOISTURE CONTENT.
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- EROSION AND SEDIMENTATION CONTROL SHALL BE IMPLEMENTED IN ACCORDANCE WITH SHEET E13 AND IN ACCORDANCE WITH THE LANDCOM "BLUE BOOK".
- ALL EXPOSED BATTERS SHALL BE TOPSOILED, SEEDED, AND FERTILISED IN ACCORDANCE WITH THE LANDSCAPE PLAN BY CORKERY & CO P/L.



LEGEND:

- CONTOUR (0.5m INTERVAL)
- EXISTING FENCE LINE
- PROPOSED DIVERSION DRAIN
- PROPOSED TOE BATTER DRAIN
- SITE BOUNDARY

SCALE 1:1000(A1)



No.	DATE	DRAFTING CHECK	PM CHECK	DETAILS
A	28/09/12	MY	PPD	ISSUED TO CLIENT
B	26/10/12	MY	PPD	INFRASTRUCTURE AREA PAVEMENT THICKNESS REDUCED TO 300

CHECKED/APPROVED	NAME	DATE
APPROVED	PPD	26/10/2012
SURVEY	PDC	03/08/2012
DESIGNER	PPD	26/10/2012
DRAFTING	MY	26/10/2012

APPROVAL AUTHORITY

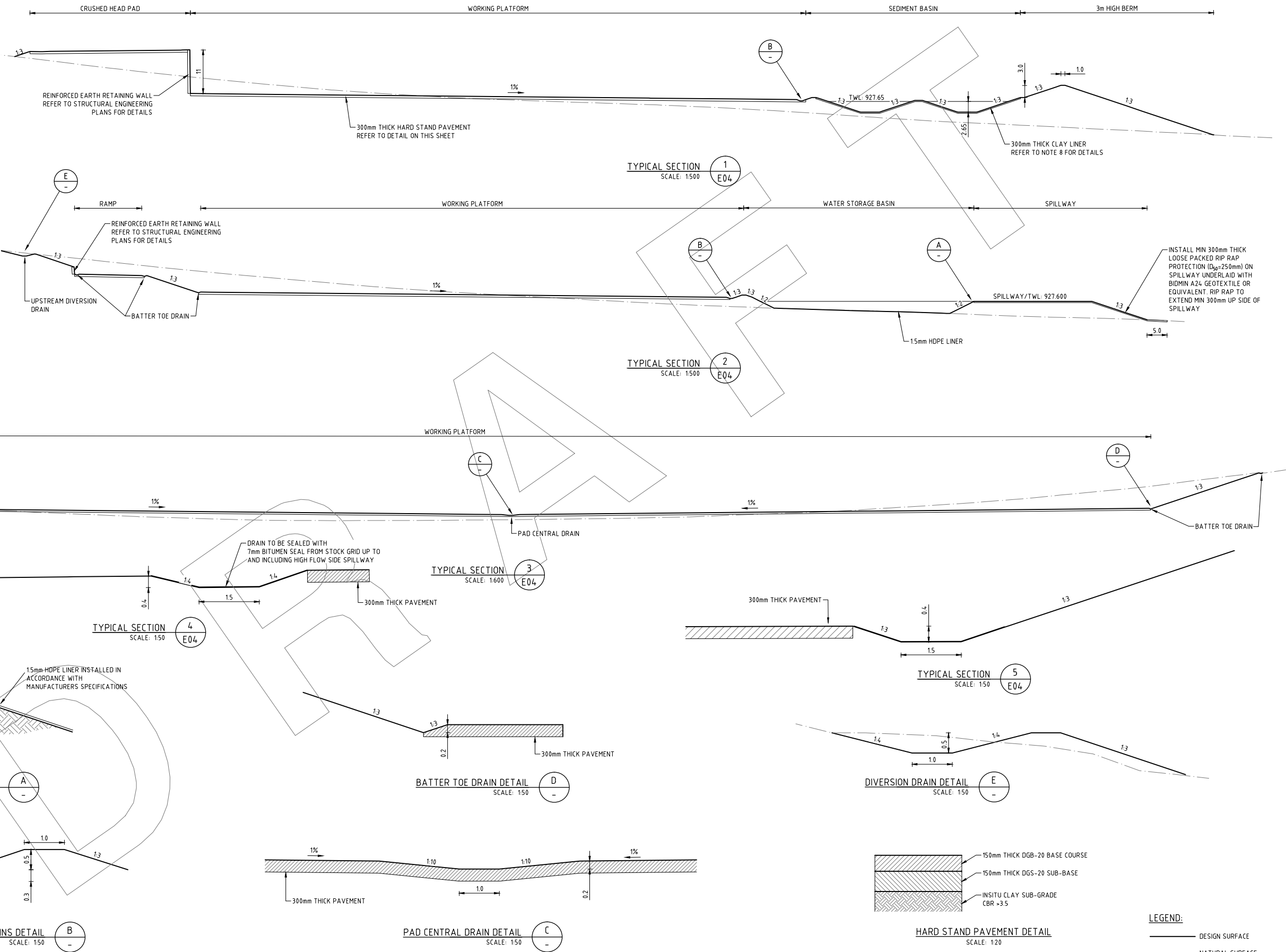
CLIENT
HANSON CONSTRUCTION MATERIALS PTY LTD
PROJECT
GUYONG HARD ROCK QUARRY INFRASTRUCTURE AREA AND ACCESS ROAD



DRAWING INFRASTRUCTURE AREA LAYOUT PLAN			
PERMANENT MARK: -	RL: -	DATUM: A.H.D.	
PROJECT NUMBER: 211023	DRAWING SHEET: 09B_E04	ORIGINAL A1	
AUTOCAD FILE: 211023_09B_E04-E16.dwg	CIVIL3D FILE: 211023_09B_MASTER_DESIGN.dwg	REVISION B	
STATUS: FOR REVIEW	SHEET E04 OF E16		

CONSTRUCTION NOTES:

- ALL BULK EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 3798.
- LEVEL 1 SAMPLING AND TESTING AS DEFINED BY AS 3798 SHALL APPLY FOR ALL BULK EARTHWORKS OR AS DIRECTED BY THE SUPERINTENDENT.
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No.	DATE	DRAFTING CHECK	PM CHECK	DETAILS
A	28/09/12	MY	PPD	ISSUED TO CLIENT
B	26/10/12	MY	PPD	INFRASTRUCTURE AREA PAVEMENT THICKNESS REDUCED TO 300

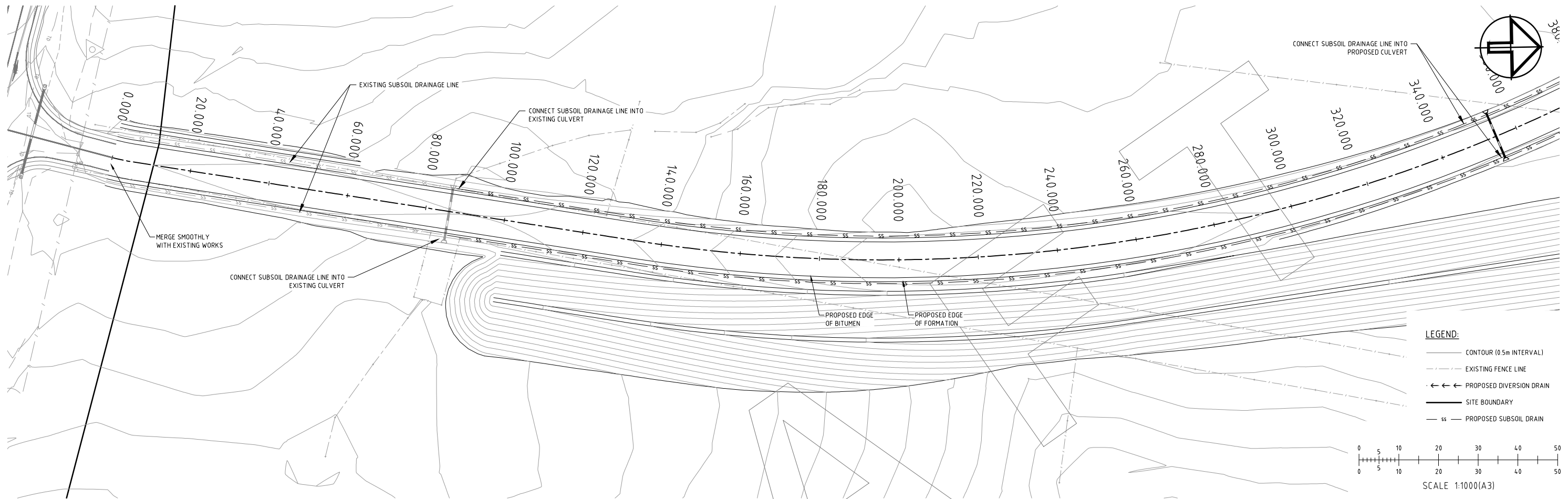
CHECKED/APPROVED	NAME	DATE
APPROVED	PPD	26/10/2012
SURVEY	PDC	03/08/2012
DESIGNER	PPD	26/10/2012
DRAFTING	MY	26/10/2012

APPROVAL AUTHORITY

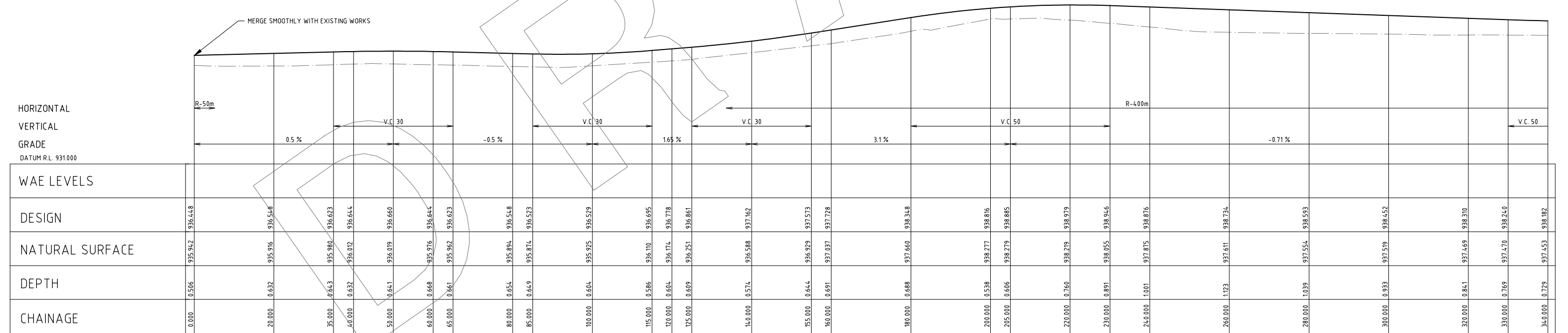
CLIENT
HANSON CONSTRUCTION MATERIALS PTY LTD
PROJECT
GUYONG HARD ROCK QUARRY INFRASTRUCTURE AREA AND ACCESS ROAD



DRAWING				INFRASTRUCTURE AREA TYPICAL SECTIONS	
PERMANENT MARK:	RL:	DATUM:	A.H.D.		
PROJECT NUMBER:	211023	DRAWING SHEET:	09B_E05	ORIGINAL	A1
AUTOCAD FILE:	211023_09B_E01-E16.dwg	CIVIL3D FILE:	211023_09B_MASTER_DESIGN.dwg	REVISION	B
STATUS:	FOR REVIEW	SHEET E05 OF E16			



NOTE:
FOR ROAD TYPICAL SECTION AND PAVEMENT DETAILS REFER TO SHEET E15



LONGITUDINAL SECTION - DESIGN ACCESS RD CENTRELINE

SCALE HORIZONTAL 1:500
VERTICAL 1:100

LEGEND:
—— DESIGN SURFACE
- - - - NATURAL SURFACE

No.	DATE	DRAFTING CHECK	PM CHECK	DETAILS
A	28/09/12	MY	PPO	ISSUED TO CLIENT
B	26/10/12	MY	PPO	INFRASTRUCTURE AREA PAVEMENT THICKNESS REDUCED TO 300

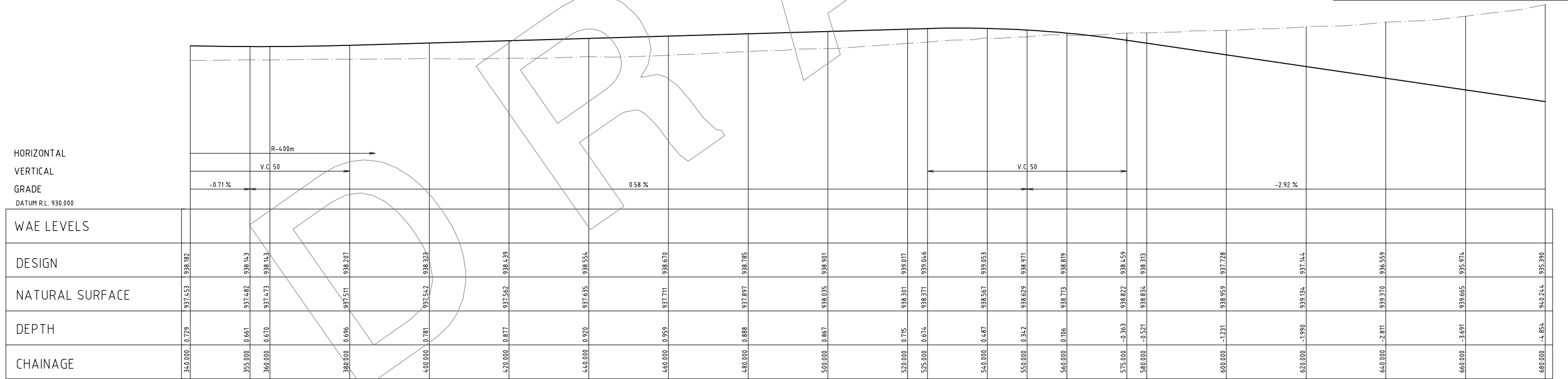
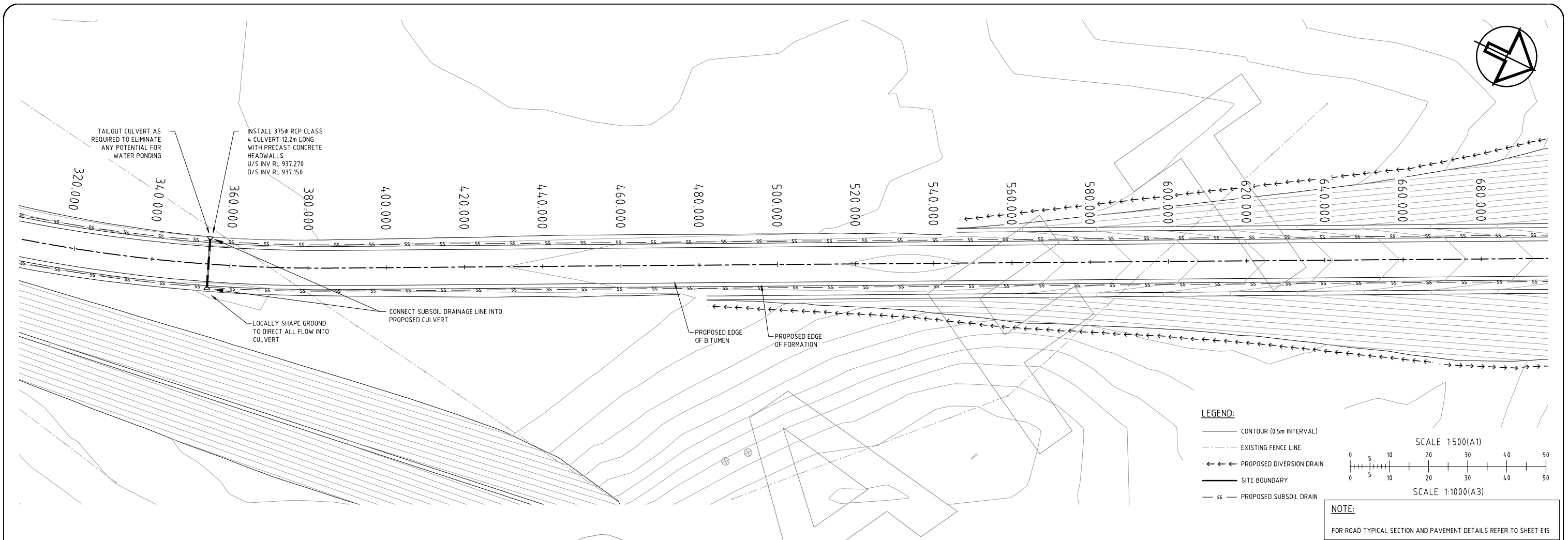
CHECKED/APPROVED	NAME	DATE
APPROVED	PPO	26/10/2012
SURVEY	PDC	03/08/2012
DESIGNER	PPO	26/10/2012
DRAFTING	MY	26/10/2012

APPROVAL AUTHORITY

CLIENT
HANSON CONSTRUCTION MATERIALS PTY LTD
PROJECT
GUYONG HARD ROCK QUARRY INFRASTRUCTURE AREA AND ACCESS ROAD

GEOLYSE
ORANGE
orange@geolyse.com
www.geolyse.com
154 PEISLEY STREET
P.O. BOX 1963
ORANGE, NSW 2800
Ph. (02) 6393 5000
Fx. (02) 6393 5050

DRAWING ACCESS ROAD PLAN AND LONGITUDINAL SECTION SHEET 1 OF 3			
PERMANENT MARK: -	RL: -	DATUM: A.H.D.	
PROJECT NUMBER: 211023	DRAWING SHEET: 09B_E06	ORIGINAL A1	
AUTOCAD FILE: 211023_09B_E06-E16.dwg	CIVIL3D FILE: 211023_02E_MASTER_DESIGN.dwg	REVISION B	
STATUS: FOR REVIEW	SHEET E06 OF E16		



LONGITUDINAL SECTION - DESIGN ACCESS RD CENTRELINE

SCALE HORIZONTAL 1:500
VERTICAL 1:100

LEGEND:

DESIGN SURFACE
NATURAL SURFACE

No.	DATE	DRAFTING CHECK	PM CHECK	DETAILS
A	28/09/12	MY	PPO	ISSUED TO CLIENT
B	26/10/12	MY	PPO	INFRASTRUCTURE AREA PAVEMENT THICKNESS REDUCED TO 300

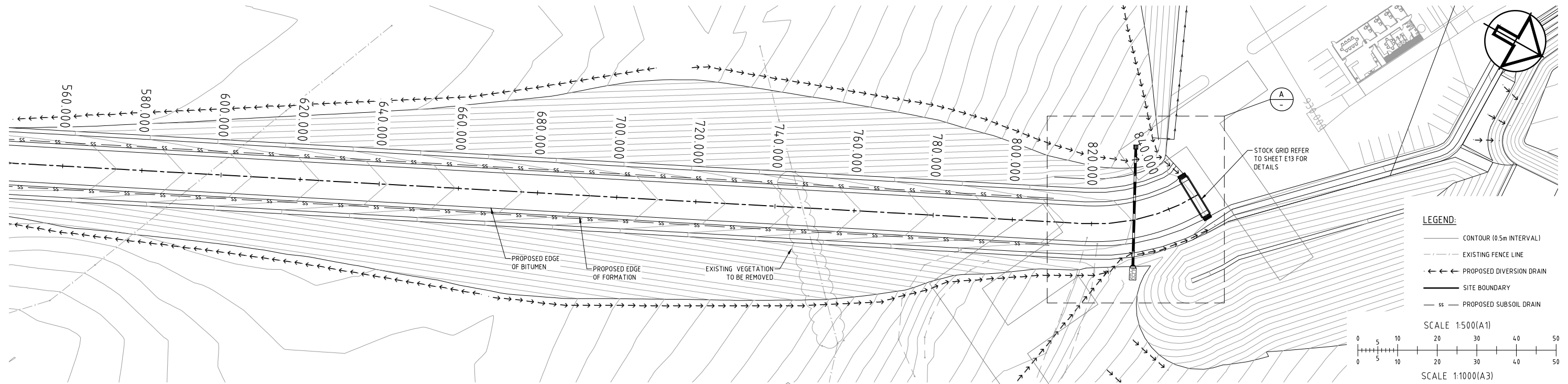
CHECKED/APPROVED	NAME	DATE
APPROVED	PPO	26/10/2012
SURVEY	PDC	03/08/2012
DESIGNER	PPO	26/10/2012
DRAFTING	MY	26/10/2012

APPROVAL AUTHORITY

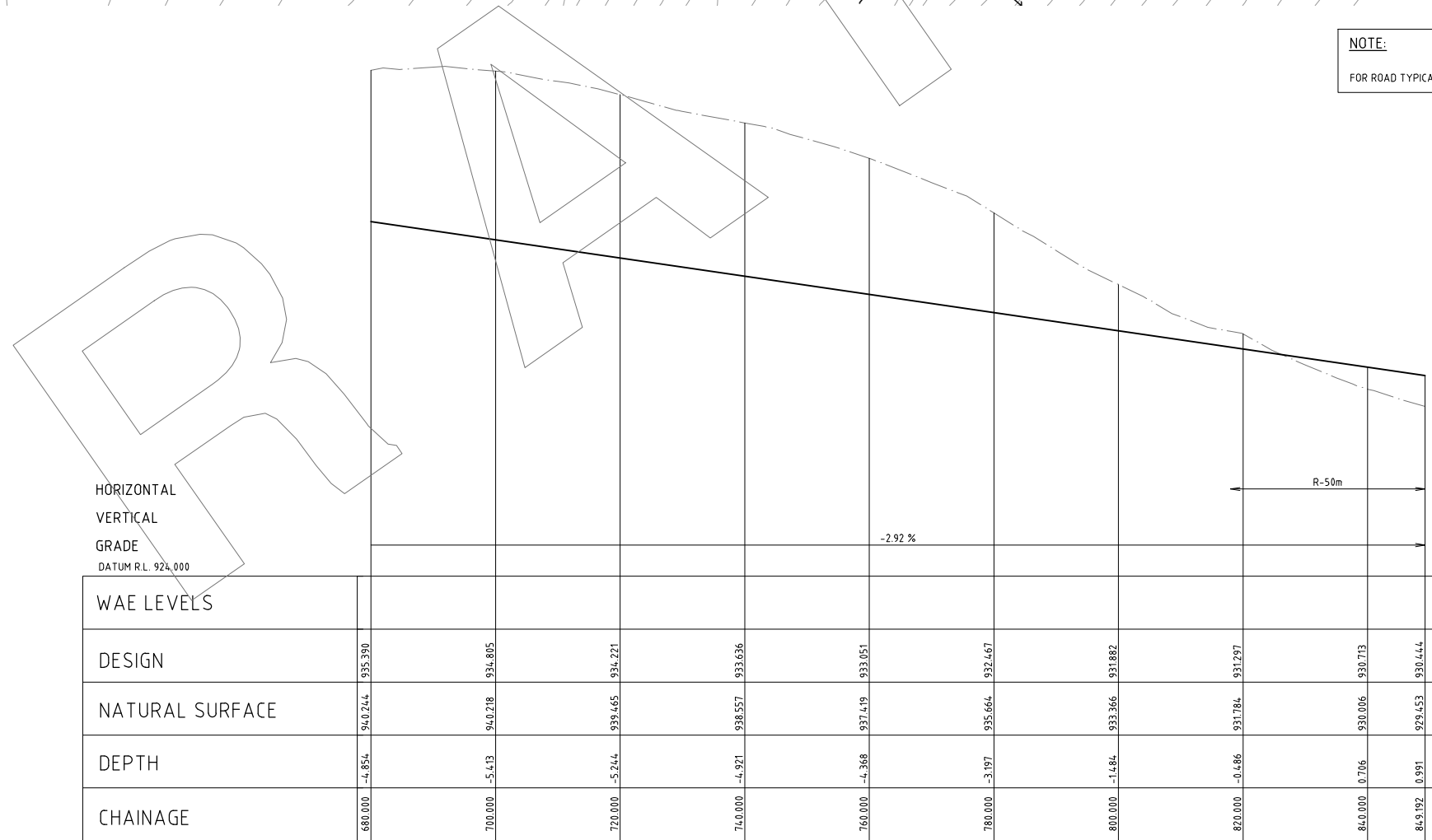
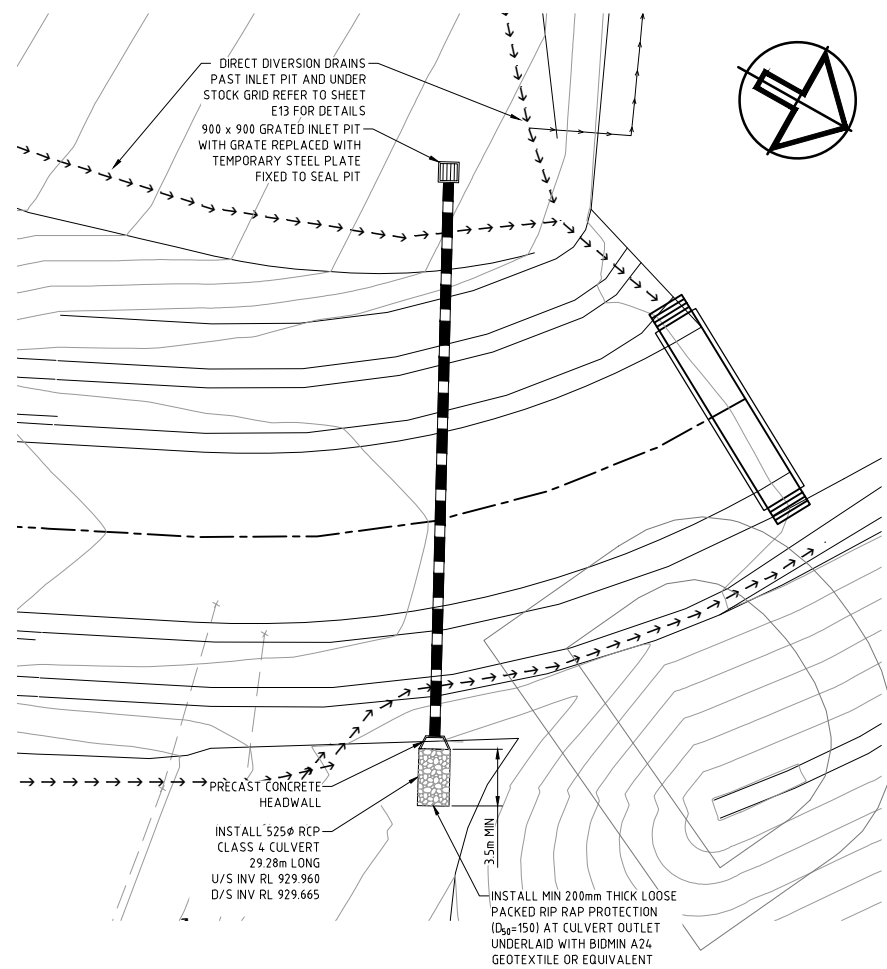
CLIENT
HANSON CONSTRUCTION MATERIALS PTY LTD
PROJECT
GUYONG HARD ROCK QUARRY INFRASTRUCTURE AREA AND ACCESS ROAD

GEOLYSE
ORANGE
orange@geolyse.com
www.geolyse.com
154 PEISLEY STREET
P.O. BOX 1963
ORANGE, NSW 2800
Ph. (02) 6393 5000
Fx. (02) 6393 5050

DRAWING ACCESS ROAD PLAN AND LONGITUDINAL SECTION SHEET 2 OF 3			
PERMANENT MARK:	RL:	DATUM:	A.H.D.
PROJECT NUMBER:	DRAWING SHEET:	ORIGINAL	A1
211023	09B_E07	REVISION	B
AUTOCAD FILE:	CIVIL3D FILE:		
211023_09B_E07-E16.dwg	211023_02E_MASTER_DESIGN.dwg		
STATUS: FOR REVIEW	SHEET E07 OF E16		



NOTE:
FOR ROAD TYPICAL SECTION AND PAVEMENT DETAILS REFER TO SHEET E15



LONGITUDINAL SECTION - DESIGN ACCESS RD CENTRELINE

SCALE HORIZONTAL 1:500

VERTICAL 1:100

LEGEND:
— DESIGN SURFACE
--- NATURAL SURFACE

No.	DATE	DRAFTING CHECK	PM CHECK	DETAILS
A	28/09/12	MY	PPO	ISSUED TO CLIENT
B	26/10/12	MY	PPO	INFRASTRUCTURE AREA PAVEMENT THICKNESS REDUCED TO 300

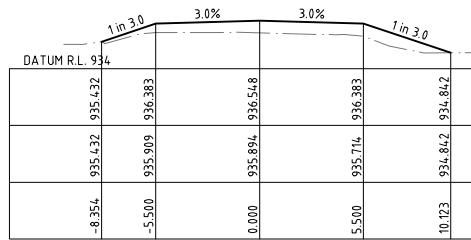
CHECKED/APPROVED	NAME	DATE
APPROVED	PPO	26/10/2012
SURVEY	PDC	03/08/2012
DESIGNER	PPO	26/10/2012
DRAFTING	MY	26/10/2012

APPROVAL AUTHORITY

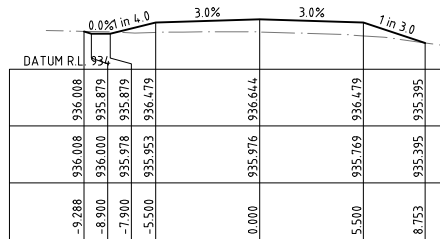
CLIENT
HANSON CONSTRUCTION MATERIALS PTY LTD
PROJECT
GUYONG HARD ROCK QUARRY INFRASTRUCTURE AREA AND ACCESS ROAD

GEOLYSE
ORANGE
orange@geolyse.com
www.geolyse.com
154 PEISLEY STREET
P.O. BOX 1963
ORANGE, NSW 2800
Ph. (02) 6393 5000
Fx. (02) 6393 5050

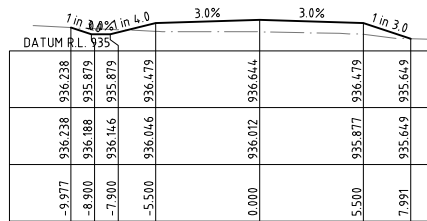
DRAWING ACCESS ROAD PLAN AND LONGITUDINAL SECTION SHEET 3 OF 3			
PERMANENT MARK: -	RL: -	DATUM: A.H.D.	
PROJECT NUMBER: 211023	DRAWING SHEET: 09B_E08	ORIGINAL A1	
AUTOCAD FILE: 211023_09B_E08-E16.dwg	CIVIL3D FILE: 211023_02E_MASTER_DESIGN.dwg	REVISION	
STATUS: FOR REVIEW	SHEET E08 OF E16	B	



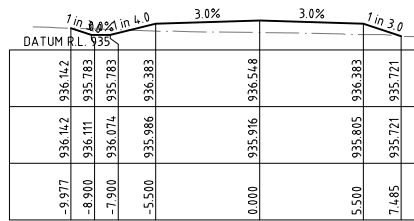
CH 80.000



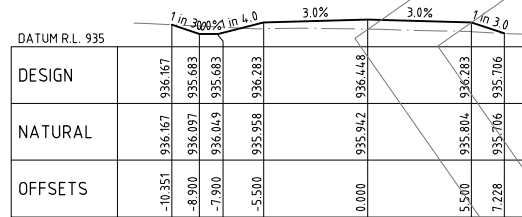
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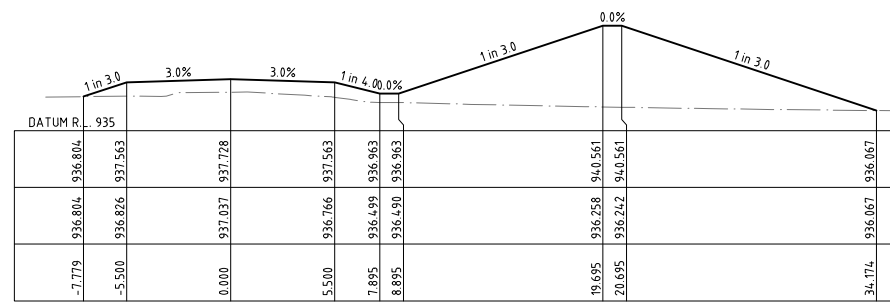
CH 40.000



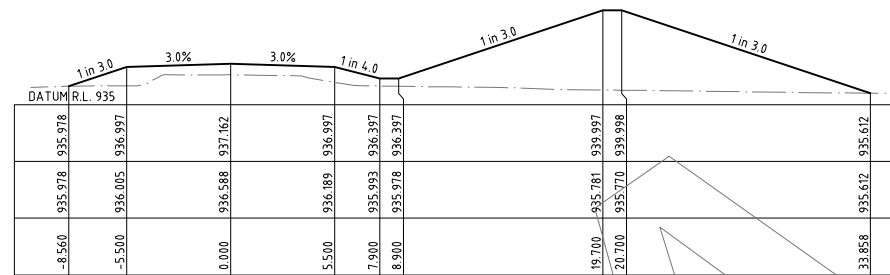
CH 20.000



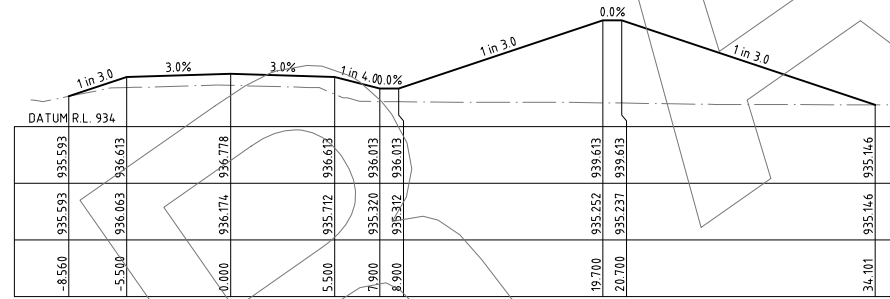
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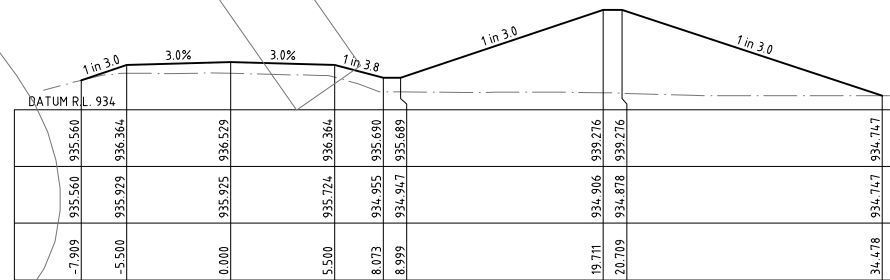
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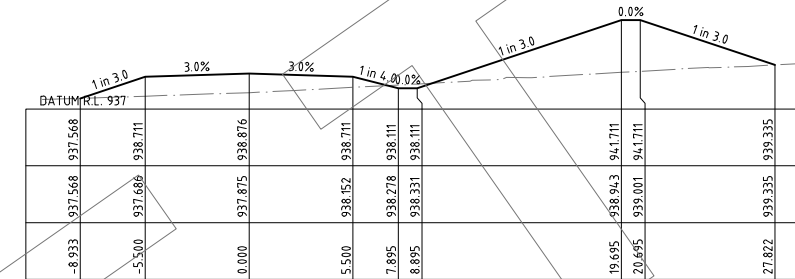
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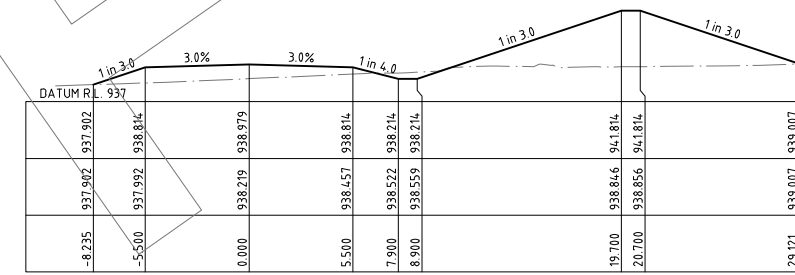
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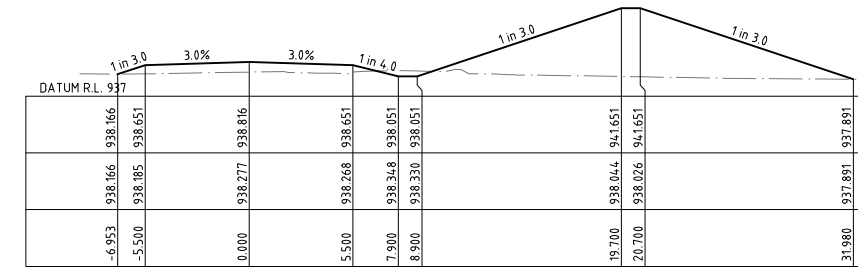
CH 100.000



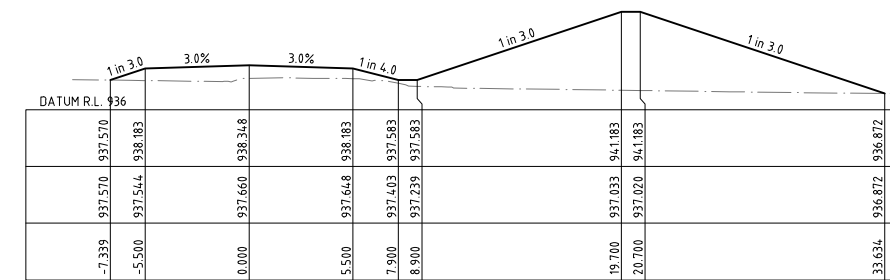
CH 240.000



CH 220.000



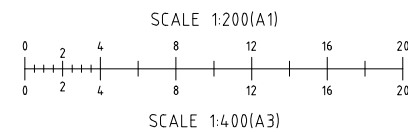
CH 200.000



CH 180.000

LEGEND:

- DESIGN SURFACE
- NATURAL SURFACE



No.	DATE	DRAFTING CHECK	PM CHECK	DETAILS
A	28/09/12	MY	PPO	ISSUED TO CLIENT
B	26/10/12	MY	PPO	INFRASTRUCTURE AREA PAVEMENT THICKNESS REDUCED TO 300

CHECKED/APPROVED	NAME	DATE
APPROVED	PPO	26/10/2012
SURVEY	PDC	03/08/2012
DESIGNER	PPO	26/10/2012
DRAFTING	MY	26/10/2012

APPROVAL AUTHORITY

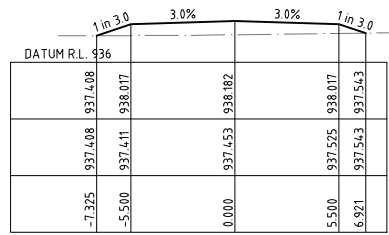
CLIENT	HANSON CONSTRUCTION MATERIALS PTY LTD
PROJECT	GUYONG HARD ROCK QUARRY INFRASTRUCTURE AREA AND ACCESS ROAD



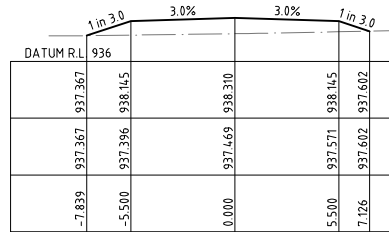
GEOLYSE
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154 PEISLEY STREET
P.O. BOX 1963
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Ph. (02) 6393 5000
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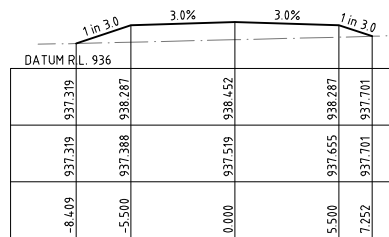
DRAWING			
ACCESS ROAD		CROSS SECTIONS SHEET 1 OF 4	
PERMANENT MARK: -	RL: -	DATUM: A.H.D.	
PROJECT NUMBER: 211023	DRAWING SHEET: 09B_E09	ORIGINAL A1	
AUTOCAD FILE: 211023_09B_E09-E16.dwg	CIVIL3D FILE: 211023_09B_MASTER_DESIGN.dwg	REVISION	
STATUS: FOR REVIEW	SHEET E09 OF E16		B



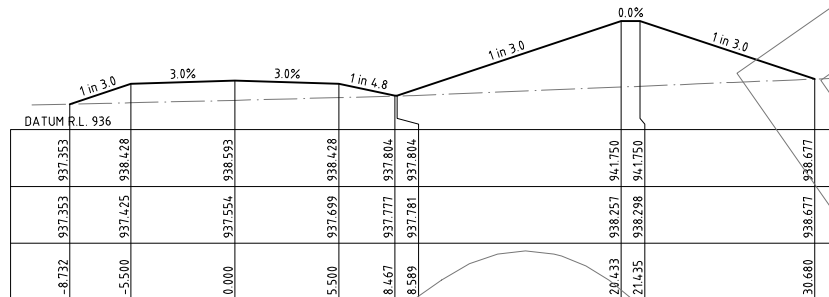
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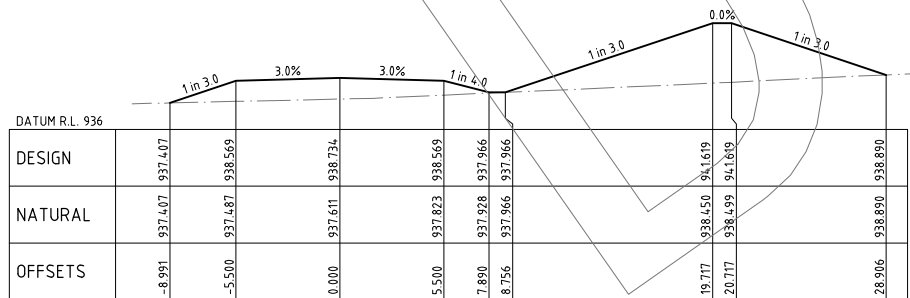
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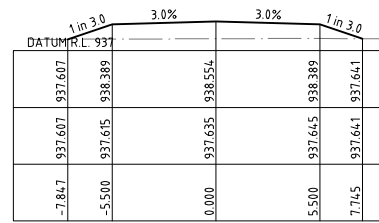
CH 300.000



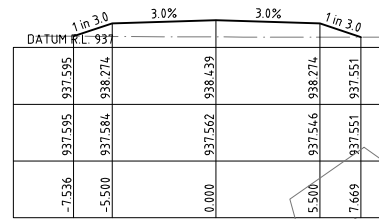
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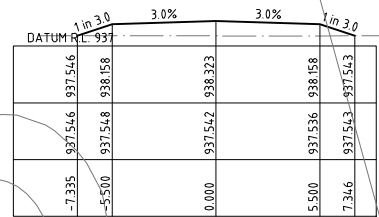
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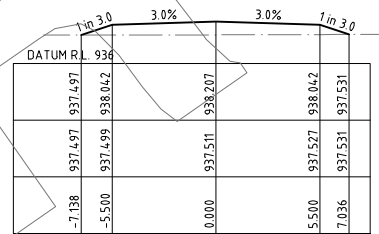
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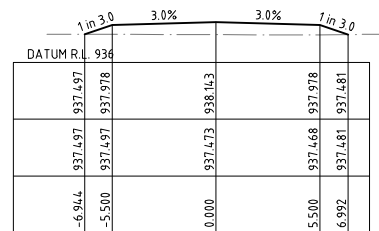
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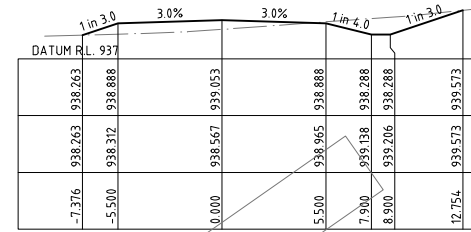
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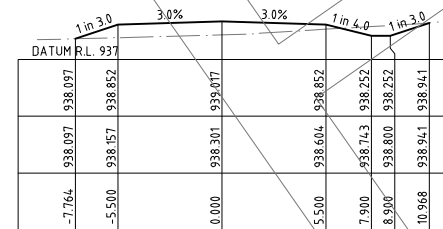
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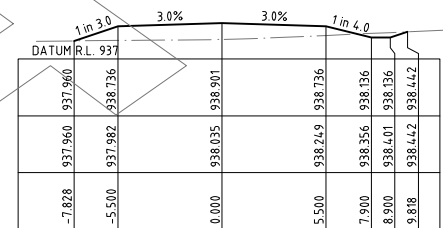
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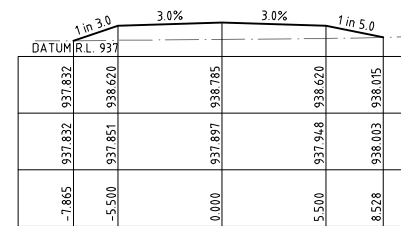
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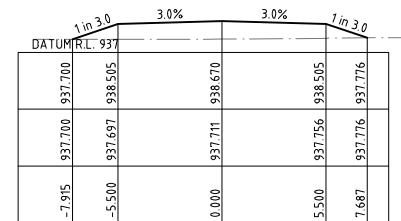
CH 520.000



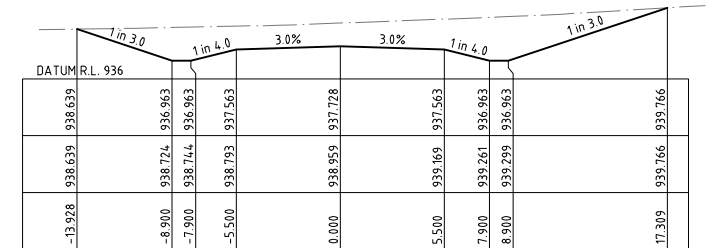
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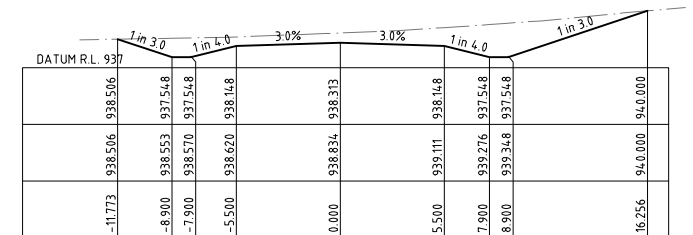
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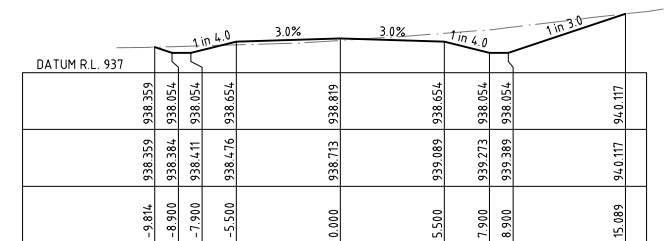
CH 460.000



CH 600.000



CH 580.000



CH 560.000

LEGEND:

DESIGN SURFACE
NATURAL SURFACE

SCALE 1:200(A1)



SCALE 1:400(A3)

No.	DATE	DRAFTING CHECK	PM CHECK	DETAILS
A	28/09/12	MY	PPO	ISSUED TO CLIENT
B	26/10/12	MY	PPO	INFRASTRUCTURE AREA PAVEMENT THICKNESS REDUCED TO 300

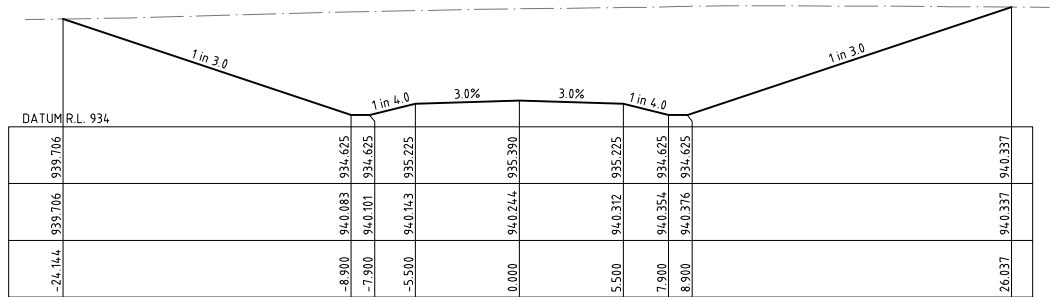
CHECKED/APPROVED	NAME	DATE
APPROVED	PPO	26/10/2012
SURVEY	PDC	03/08/2012
DESIGNER	PPO	26/10/2012
DRAFTING	MY	26/10/2012

APPROVAL AUTHORITY

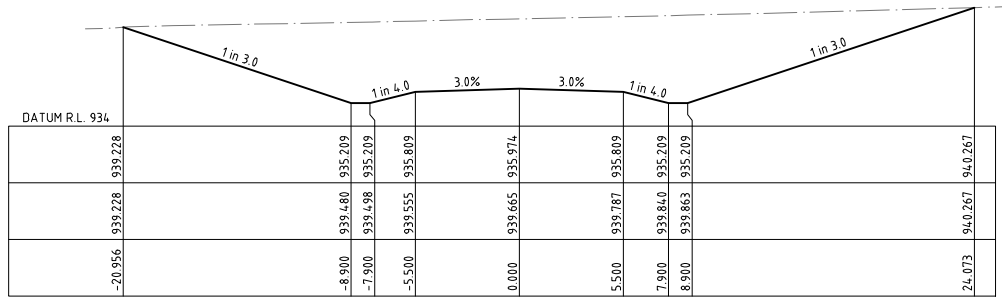
CLIENT
HANSON CONSTRUCTION MATERIALS PTY LTD
PROJECT
GUYONG HARD ROCK QUARRY INFRASTRUCTURE AREA AND ACCESS ROAD



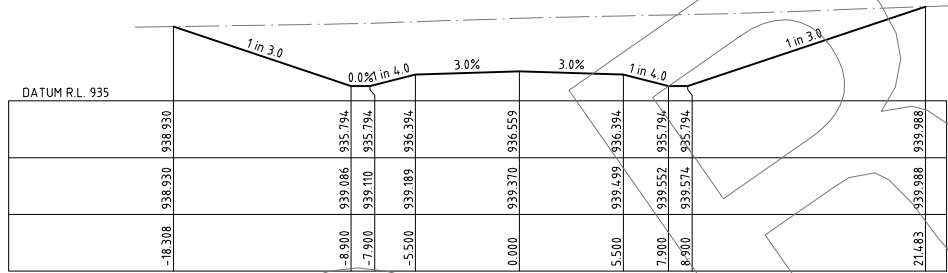
DRAWING			
ACCESS ROAD		CROSS SECTIONS SHEET 2 OF 4	
PERMANENT MARK:	RL:	DATUM:	A.H.D.
PROJECT NUMBER:	211023	DRAWING SHEET:	09B_E10
AUTOCAD FILE:	211023_09B_E10_MASTER.DWG	CIVIL3D FILE:	211023_09B_E10_MASTER.DWG
STATUS:	FOR REVIEW	SHEET	E10 OF E16



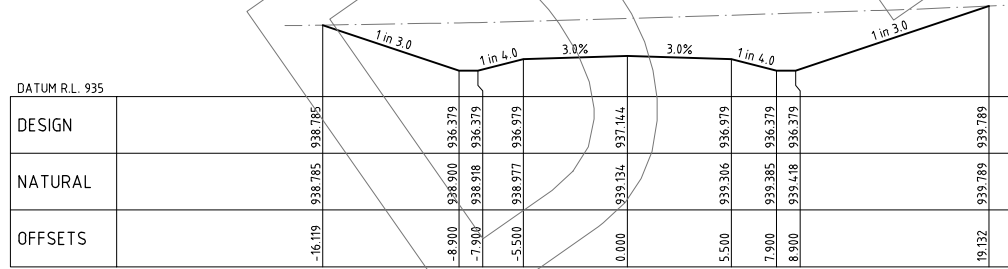
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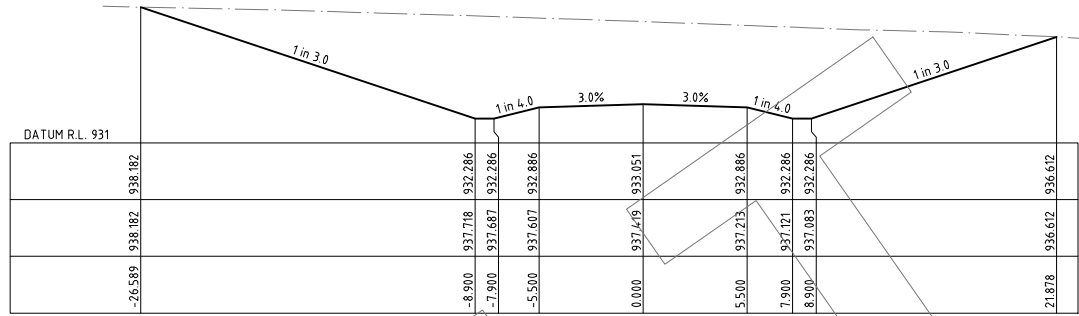
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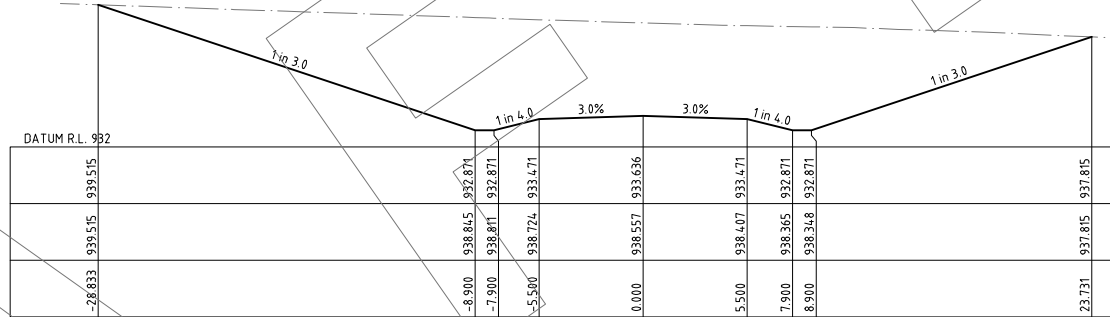
CH 640.000



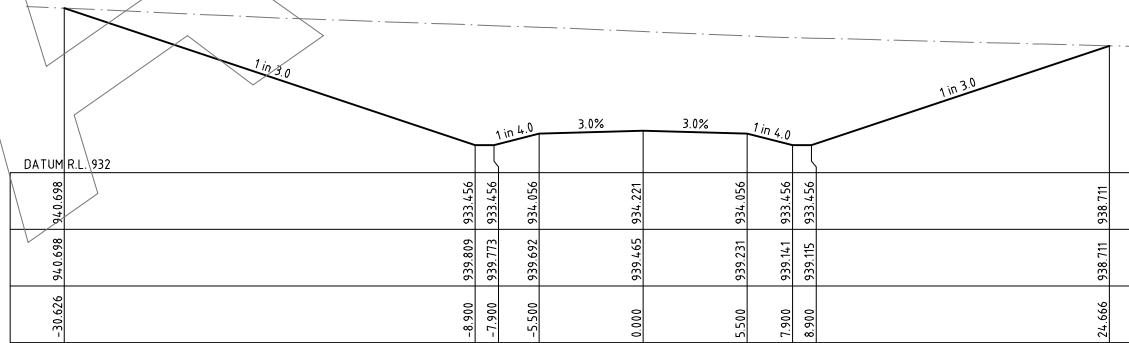
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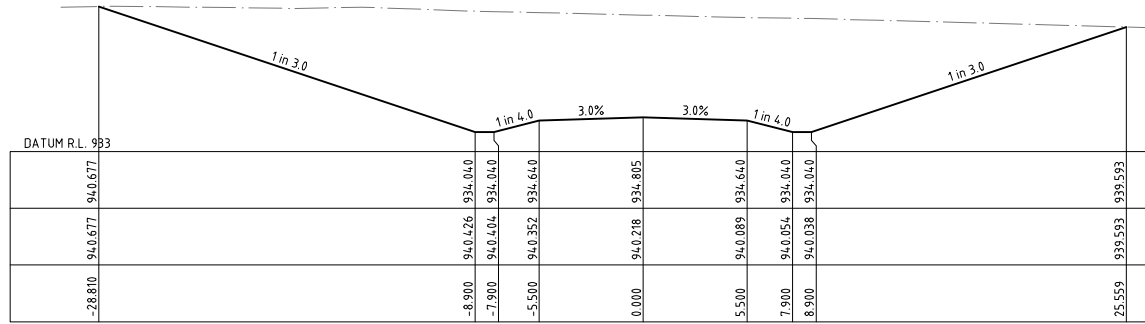
CH 760.000



CH 740.000



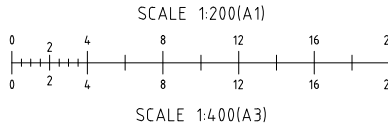
CH 720.000



CH 700.000

LEGEND:

- DESIGN SURFACE
- NATURAL SURFACE



No.	DATE	DRAFTING CHECK	PM CHECK	DETAILS
A	28/09/12	MY	PPO	ISSUED TO CLIENT
B	26/10/12	MY	PPO	INFRASTRUCTURE AREA PAVEMENT THICKNESS REDUCED TO 300

CHECKED/APPROVED	NAME	DATE
APPROVED	PPO	26/10/2012
SURVEY	PDC	03/08/2012
DESIGNER	PPO	26/10/2012
DRAFTING	MY	26/10/2012

APPROVAL AUTHORITY

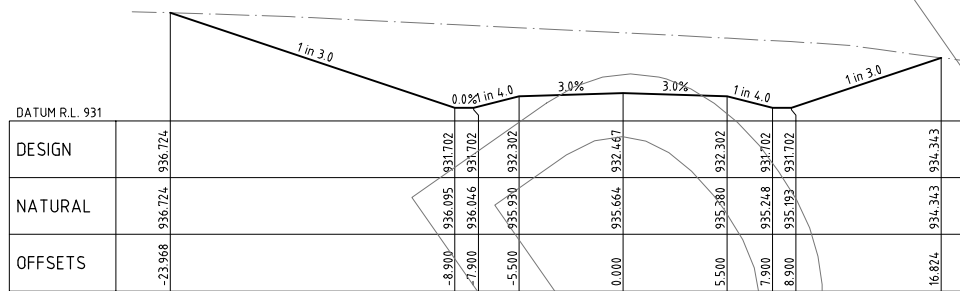
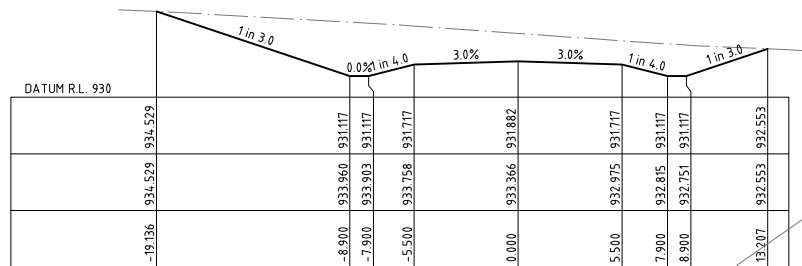
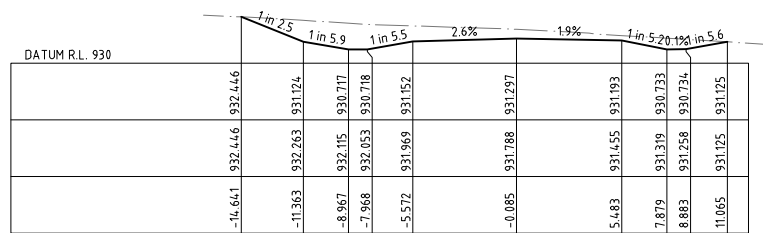
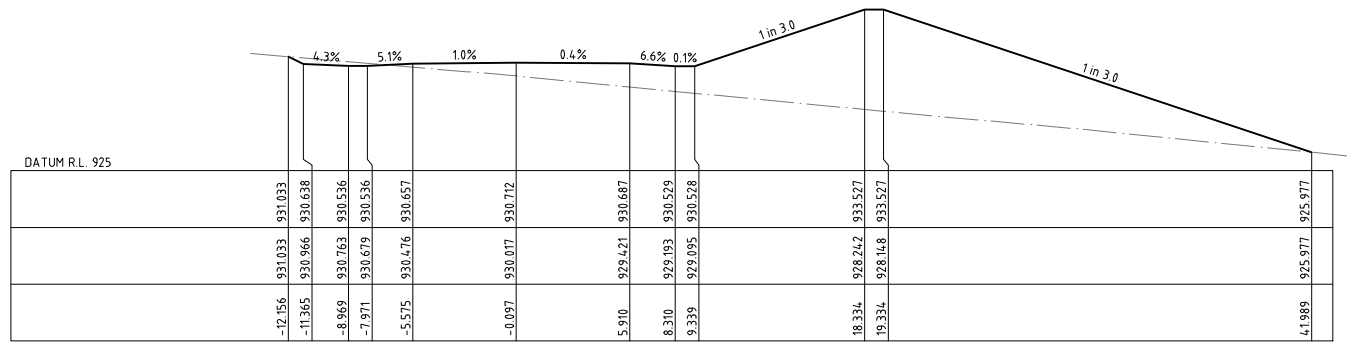
CLIENT	HANSON CONSTRUCTION MATERIALS PTY LTD
PROJECT	GUYONG HARD ROCK QUARRY INFRASTRUCTURE AREA AND ACCESS ROAD



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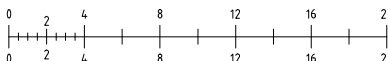
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ACCESS ROAD		CROSS SECTIONS SHEET 3 OF 4	
PERMANENT MARK: -	RL: -	DATUM: A.H.D.	REVISION
PROJECT NUMBER: 211023	DRAWING SHEET: 09B_E11	ORIGINAL A1	REVISION
AUTOCAD FILE: 211023_09B_E11.dwg	CIVIL3D FILE: 211023_02E_MASTER_DESIGN.dwg	STATUS: FOR REVIEW	SHEET E11 OF E16



LEGEND:

- DESIGN SURFACE
- NATURAL SURFACE

SCALE 1:200(A1)



SCALE 1:400(A3)

No.	DATE	DRAFTING CHECK	PM CHECK	DETAILS
A	28/09/12	MY	PPO	ISSUED TO CLIENT
B	26/10/12	MY	PPO	INFRASTRUCTURE AREA PAVEMENT THICKNESS REDUCED TO 300

CHECKED/APPROVED	NAME	DATE
APPROVED	PPO	26/10/2012
SURVEY	PDC	03/08/2012
DESIGNER	PPO	26/10/2012
DRAFTING	MY	26/10/2012

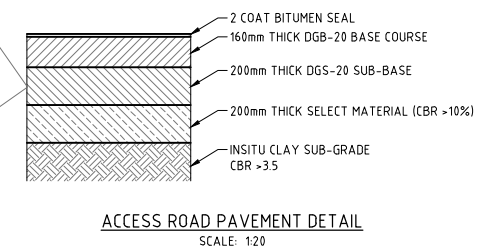
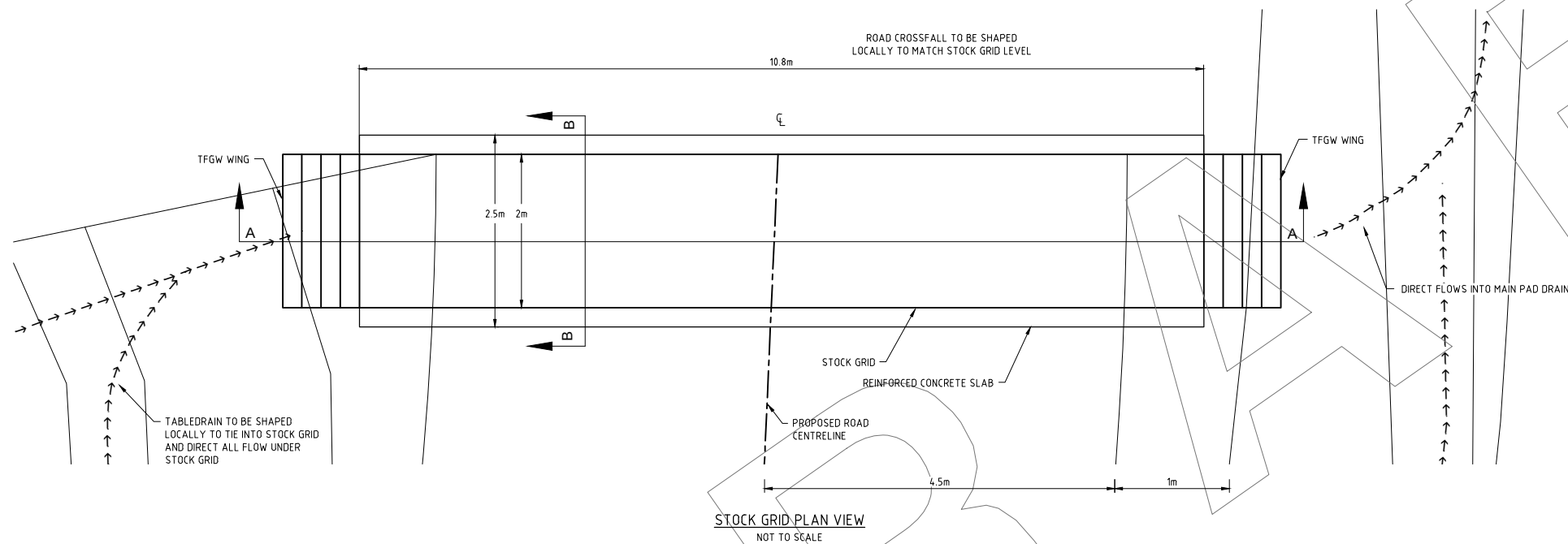
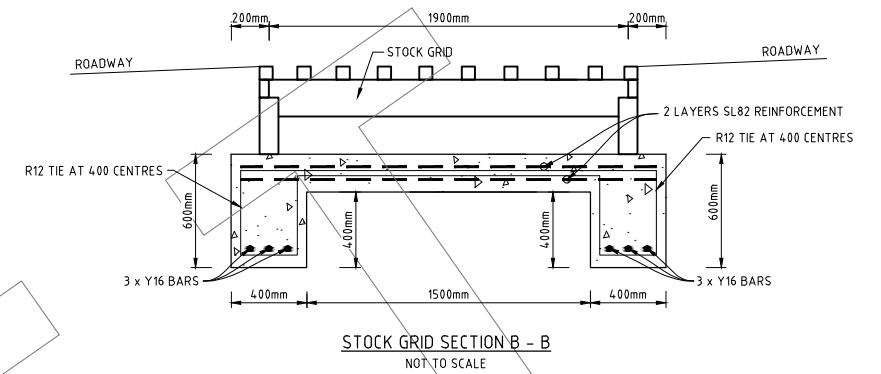
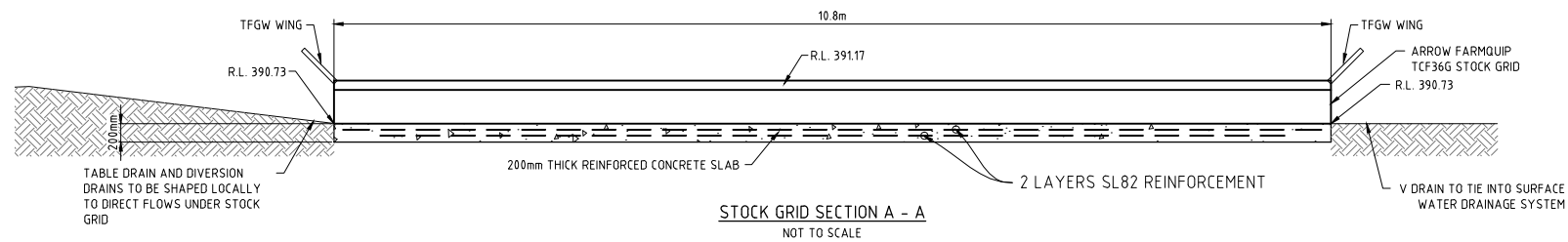
APPROVAL AUTHORITY

CLIENT
HANSON CONSTRUCTION MATERIALS PTY LTD

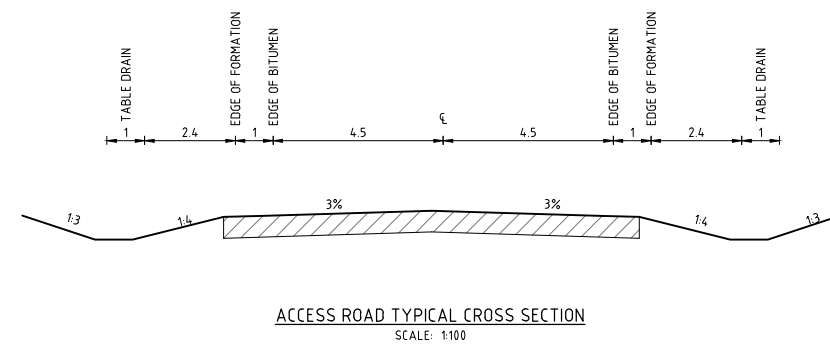
PROJECT
GUYONG HARD ROCK QUARRY INFRASTRUCTURE AREA AND ACCESS ROAD



DRAWING			
ACCESS ROAD CROSS SECTIONS SHEET 4 OF 4			
PERMANENT MARK: -	RL: -	DATUM: A.H.D.	
PROJECT NUMBER: 211023	DRAWING SHEET: 09B_E12	ORIGINAL A1	
AUTOCAD FILE: 211023_09B_E12.dwg	CIVIL3D FILE: 211023_09B_MASTER_DESIGN.dwg	REVISION	
STATUS: FOR REVIEW	SHEET E12 OF E16		B



PAVEMENT DESIGN BASED ON
GEOTECHNICAL INVESTIGATION AND
PAVEMENT DESIGN REPORT BY MACQUARIE
GEOTECH DATED 21 AUGUST 2012



No.	DATE	DRAFTING CHECK	PM CHECK	DETAILS
A	28/09/12	MY	PPO	ISSUED TO CLIENT
B	26/10/12	MY	PPO	INFRASTRUCTURE AREA PAVEMENT THICKNESS REDUCED TO 300

CHECKED/APPROVED	NAME	DATE
APPROVED	PPO	26/10/2012
SURVEY	PDC	03/08/2012
DESIGNER	PPO	26/10/2012
DRAFTING	MY	26/10/2012

APPROVAL AUTHORITY

CLIENT
**HANSON CONSTRUCTION
MATERIALS PTY LTD**
PROJECT
**GUYONG HARD ROCK QUARRY
INFRASTRUCTURE AREA
AND ACCESS ROAD**



DRAWING: STOCK GRID DETAILS, ACCESS ROAD TYPICAL SECTION AND PAVEMENT DETAILS			
PERMANENT MARK: -	RL: -	DATUM: A.H.D.	
PROJECT NUMBER: 211023	DRAWING SHEET: 09B_E13	ORIGINAL: A1	
AUTOCAD FILE: 211023_09B_E13.dwg	CIVIL3D FILE: 211023_09B_MASTER_DESIGN.dwg	REVISION: B	
STATUS: FOR REVIEW		SHEET E13 OF E16	

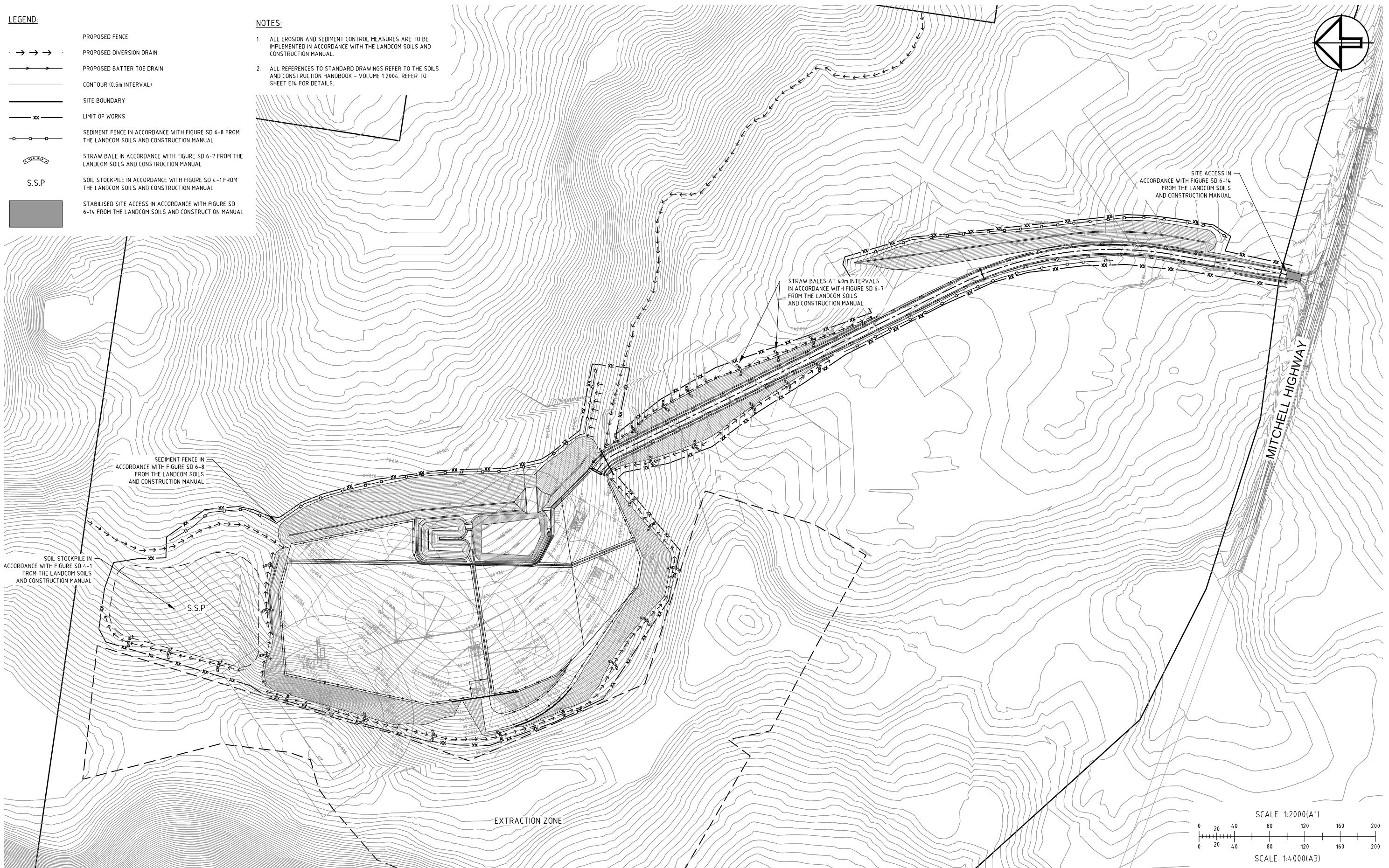
DRAWING			
STORMWATER TYPICAL DETAILS			
PERMANENT MARK: -	RL: -	DATE: A.H.D.	
PROJECT NUMBER: 211023	DRAWING SHEET: 09B_E14	ORIGINAL A1	
AUTOCAD FILE: 211023_09B_E14.dwg	CIVIL 3D FILE: 211023_02E_MASTER_DESIGN.dwg		
STATUS: FOR REVIEW		SHEET E14 OF E16	
		B	

LEGEND:

- → → →
→ → → →
—
—
— xx —
—
—
S.S.P
- PROPOSED FENCE
PROPOSED DIVERSION DRAIN
PROPOSED BATTER TOE DRAIN
CONTOUR (0.5m INTERVAL)
SITE BOUNDARY
LIMIT OF WORKS
SEDIMENT FENCE IN ACCORDANCE WITH FIGURE SD 6-8 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL
STRAW BALE IN ACCORDANCE WITH FIGURE SD 6-7 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL
SOIL STOCKPILE IN ACCORDANCE WITH FIGURE SD 4-1 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL
STABILISED SITE ACCESS IN ACCORDANCE WITH FIGURE SD 6-14 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL

NOTES:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IMPLEMENTED IN ACCORDANCE WITH THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
2. ALL REFERENCES TO STANDARD DRAWINGS REFER TO THE SOILS AND CONSTRUCTION HANDBOOK - VOLUME 12004. REFER TO SHEET E14 FOR DETAILS.



No.	DATE	DRAFTING CHECK	PM CHECK	DETAILS
A	28/09/12	MY	PPD	ISSUED TO CLIENT
B	26/10/12	MY	PPD	INFRASTRUCTURE AREA PAVEMENT THICKNESS REDUCED TO 300

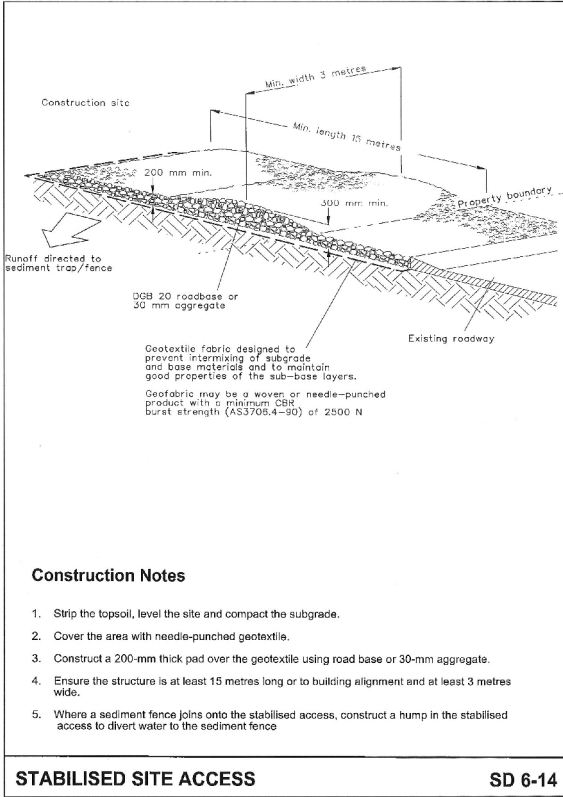
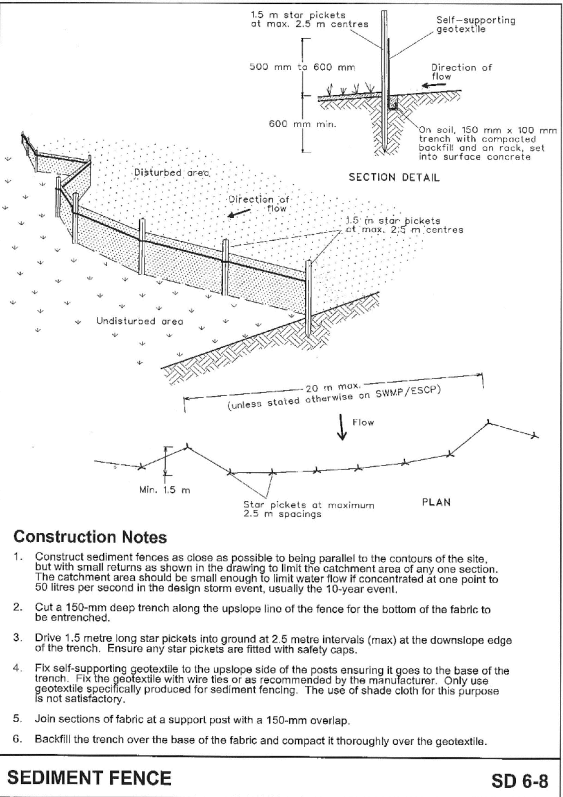
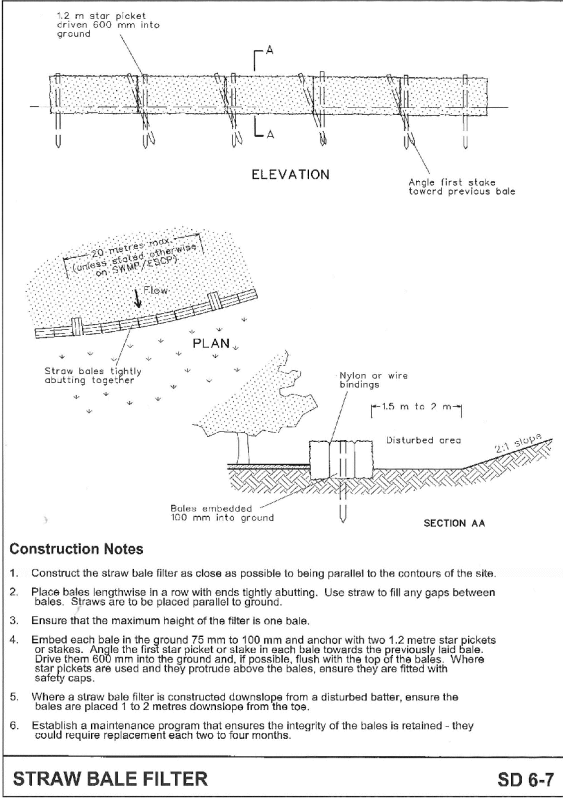
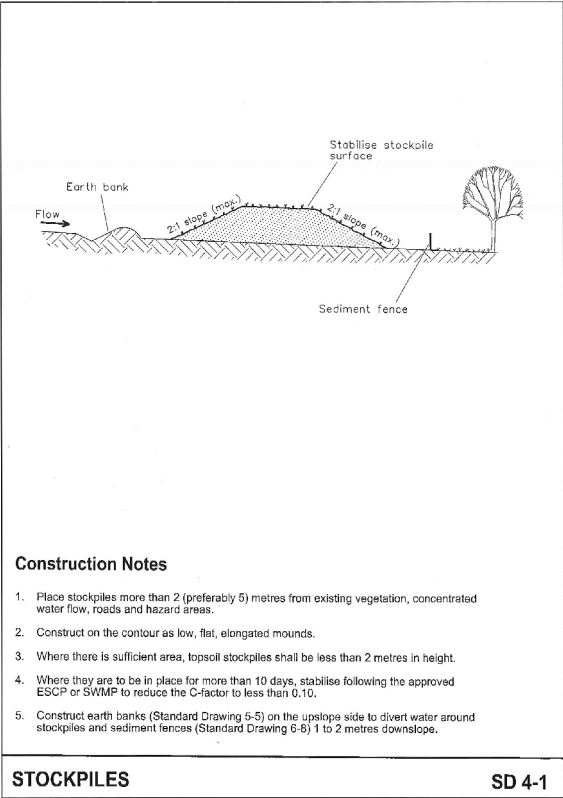
CHECKED/APPROVED	NAME	DATE
APPROVED	PPD	26/10/2012
SURVEY	PDC	03/08/2012
DESIGNER	PPD	26/10/2012
DRAFTING	MY	26/10/2012

APPROVAL AUTHORITY

CLIENT
HANSON CONSTRUCTION MATERIALS PTY LTD
PROJECT
GUYONG HARD ROCK QUARRY INFRASTRUCTURE AREA AND ACCESS ROAD



DRAWING EROSION AND SEDIMENTATION CONTROL PLAN			
PERMANENT MARK:	RL:	DATUM:	A.H.D.
PROJECT NUMBER:	211023	DRAWING SHEET:	09B_E15
AUTOCAD FILE:	211023_09B_E15.dwg	CIVIL3D FILE:	211023_09B_MASTER.DESIGN.dwg
STATUS:	FOR REVIEW	SHEET	E15 OF E16
ORIGINAL	A1	REVISION	B



No.	DATE	DRAFTING CHECK	PM CHECK	DETAILS
A	28/09/12	MY	PPO	ISSUED TO CLIENT
B	26/10/12	MY	PPO	INFRASTRUCTURE AREA PAVEMENT THICKNESS REDUCED TO 300

CHECKED/APPROVED	NAME	DATE
APPROVED	PPO	26/10/2012
SURVEY	PDC	03/08/2012
DESIGNER	PPO	26/10/2012
DRAFTING	MY	26/10/2012

APPROVAL AUTHORITY

CLIENT	HANSON CONSTRUCTION MATERIALS PTY LTD
PROJECT	GUYONG HARD ROCK QUARRY INFRASTRUCTURE AREA AND ACCESS ROAD

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DRAWING EROSION AND SEDIMENTATION CONTROL FIGURES			
PERMANENT MARK:	RL:	DATUM:	A.H.D.
PROJECT NUMBER:	211023	DRAWING SHEET:	09B_E16
AUTOCAD FILE:	211023_09B_E01-E16.dwg	CIVIL3D FILE:	211023_02E_MASTER_DESIGN.dwg
STATUS:	FOR REVIEW	SHEET	E16 OF E16
			REVISION
			A1
			B