

LOT RECONFIGURATION STAGE 2A - 11 LOTS

LOT 100 on SP 211943
HUNTER STREET, BLACKWATER

FOR
Mr. Colin Hodson & Sons

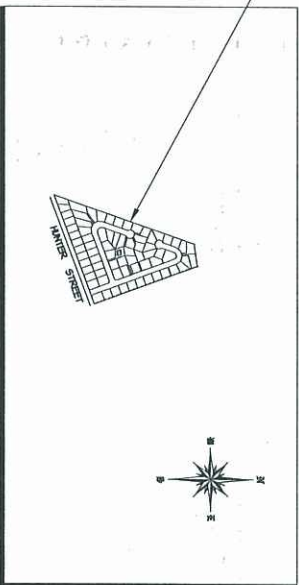
PLANS AND DOCUMENTS
referred to in the ULDA
APPROVAL dated 27/5/11

INDEX

DWG No.	REV. No.	DESCRIPTION
Q05-187-02B-00	B	INDEX & LOCALITY PLAN
Q05-187-02B-01	B	EARTHWORKS LAYOUT PLAN
Q05-187-02B-02	B	ROADWORKS & DRAINAGE LAYOUT PLAN
Q05-187-02B-03	B	SEWER RETICULATION LAYOUT PLAN, LONGITUDINAL SECTION & DETAILS
Q05-187-02B-04	B	WATER RETICULATION LAYOUT PLAN
Q05-187-02B-05	B	EROSION & SEDIMENT CONTROL LAYOUT PLAN

DEVELOPMENT SUMMARY

	AREA (ha)	LOTS
TOTAL SUBDIVISION:	5.804	14
- STAGE 2	0.102	11
- STAGE 1 (CONSTRUCTED)	2.861	36



LOCALITY PLAN
SCALE 1:10000 - A1
SCALE 1:20000 - A3

NOTES

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS.
2. BEFORE PROCEEDING WITH THE WORK, ANY DISCREPANCIES IN THE CONTRACT DOCUMENTS SHALL BE REF. FOR DECISION TO THE ENGINEER.
3. DO NOT SCALE FROM DRAWINGS. IF IN DOUBT, PLEASE ASK.
4. CONTRACTOR SHALL VERIFY ALL LOCATIONS OF SERVICES, ALL DIMENSIONS AND LEVELS PRIOR TO CONSTRUCTION.
5. ALL MATERIALS & WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND THE LOCAL AUTHORITY'S BY-LAWS.
5. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL RELEVANT APPROVALS PRIOR TO COMMENCEMENT OF WORKS.
6. SILT MANAGEMENT PLAN TO REMAIN IN PLACE UNTIL COMPLETION OF WORKS AND SATISFACTORY MAINTENANCE IS COMPLETED.

APPROVED
OPERATIONAL WORKS
CENTRAL HIGHLANDS REGIONAL COUNCIL
29/03/2011

APPROVED		NEIL MCKENZIE & ASSOCIATES PTY. LTD.	
THIS DRAWING REMAINS THE PROPERTY OF NEIL MCKENZIE & ASSOCIATES © Copyright		CONSULTING ENGINEERS	
14/899a SANDGATE ROAD CLAYFIELD QLD 4011 PHONE: (07) 3862 1886 FAX: (07) 3862 1397 EMAIL: mck@neilmckenzie.com.au		SCALE 1:10000 (A1) 1:5 1:20000 (A3) 1:50000 (A4)	
DATE 15/03/2011		JOB DESCRIPTION PROPOSED SUBDIVISION - STAGE 2A HUNTER STREET BLACKWATER	
DRAWING NUMBER Q05-187-02A-00		INDEX AND LOCALITY PLAN	
REVISION B			

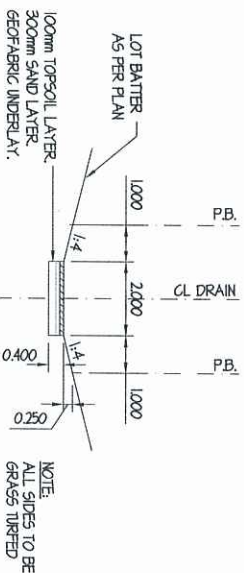
LEGEND

- | | |
|--|--|
| EXISTING CONTOURS
(0.25m INTERVALS) | |
| EXISTING TYPE 'M' KERB AND CHANNEL | |
| PROPOSED STORMWATER /
REAR ALLOTMENT DRAINAGE | |
| EXISTING STORMWATER /
REAR ALLOTMENT DRAINAGE | |
| PROPOSED SEWERAGE RETICULATION | |
| EXISTING SEWERAGE RETICULATION | |
| EXISTING WATER RETICULATION | |
| PROPOSED ROOFPATER DRAINAGE KERB ADAPTORS | |
| EXISTING ROOFPATER DRAINAGE KERB ADAPTORS | |
| SWALE DRAIN (REFER DETAIL) | |
| HEIGHT LEVEL AND POINT | |
- +61.2200

NOTES.

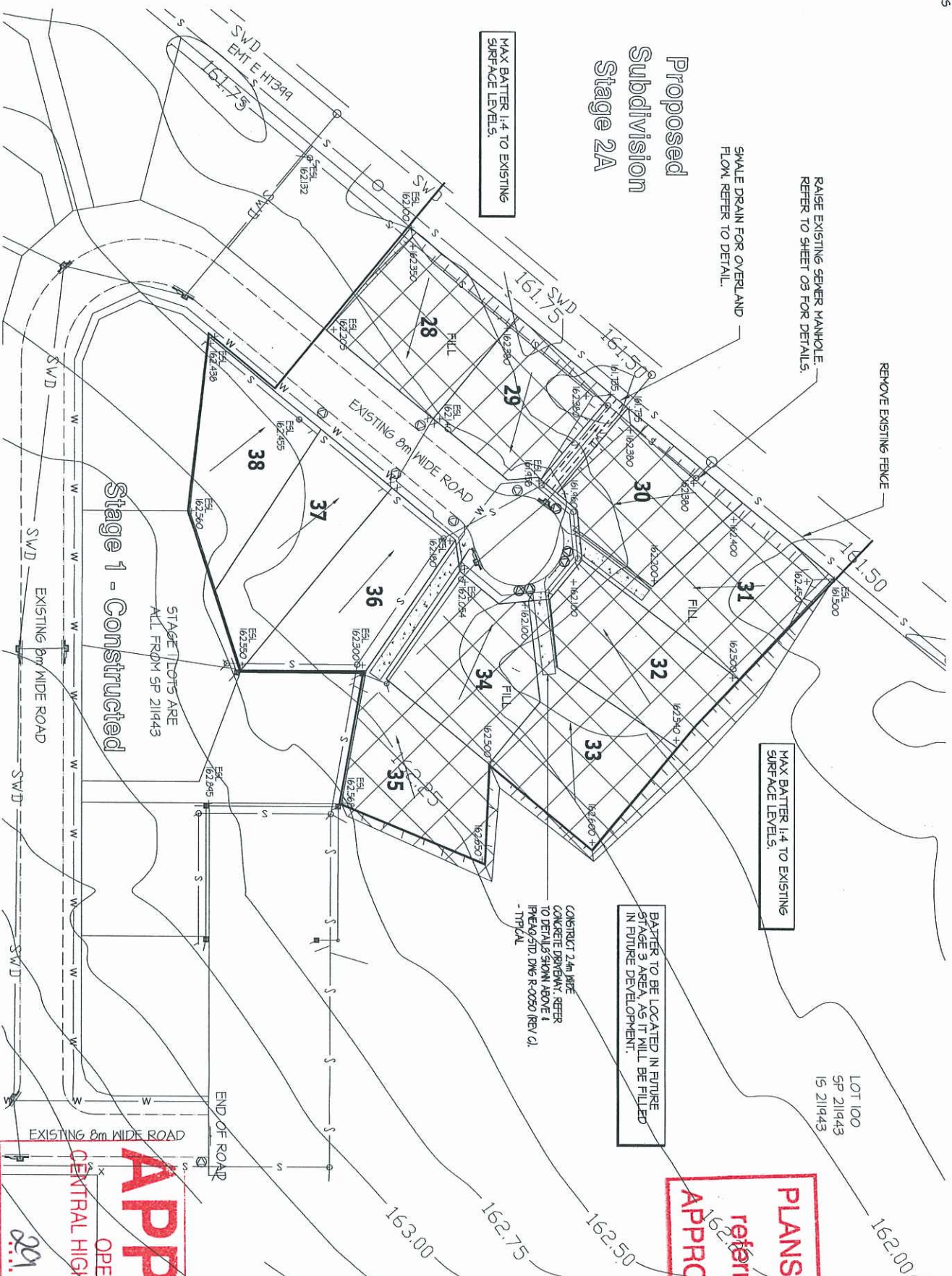
1. SITE PREPARATION AND EARTHWORKS IN THE BUILDING AREA SHALL COMPLY WITH A53780 OR AS OTHERWISE SPECIFIED.
2. MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT S.A.A. CODES AND THE CARPENTRY MANUAL DEVELOPMENT GUIDELINES.
3. THE CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS OF AUTHORITIES HAVING JURISDICTION OVER THE WORKS.
4. THESE DRAWINGS MUST NOT BE SCALED.
5. ALL DIMENSIONS AND REDUCED LEVELS MUST BE VERIFIED ON SITE BEFORE THE COMMENCEMENT OF ANY WORK.
6. SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER.
 1. ALL LEVELS SHOWN ARE TO THE AUSTRALIAN HEIGHT DATUM.
7. SERVICE INFORMATION SHOWN IS BASED ON PLANS SUPPLIED BY AUTHORITIES AND IS APPROXIMATE ONLY. PRIOR TO COMMENCEMENT OF ANY WORKS, THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND SERVICES AND COMPLY WITH ALL REQUIREMENTS OF THOSE AUTHORITIES.
8. UNLESS NOTED OTHERWISE, ALL VEGETATION SHALL BE STRIPPED TO A MINIMUM DEPTH OF 100mm OVER ALL PROPOSED PAVEMENT AND EXCAVATION AREAS.
9. PRIOR TO THE PLACEMENT OF ANY FILLS, PAVEMENTS OR BUILDINGS, THE EXPOSED SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 98% STANDARD COMPACTION IN ACCORDANCE WITH TEST TELL OF A.S. 1288 FOR THE TOP 300mm. ANY SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH SITE NON MATERIAL TO THE ENGINEERS APPROVAL AND COMPACTED IN ACCORDANCE WITH THE COMPACTION REQUIREMENTS SET OUT BELOW.
10. ALL FILL AND PAVEMENT MATERIALS SHALL BE COMPACTED IN 200mm MAXIMUM LOOSE THICKNESS LAYERS TO THE DENSITIES SPECIFIED:
 - ALL FILL: 100 % S.D.D.
11. GRADE EVERYWHERE BETWEEN FINISHED SURFACE SPOT LEVELS, FINISHED SURFACE CONTIGUOUS ARE SHOWN FOR CLARITY. WHERE FINISHED SURFACE LEVELS ARE NOT SHOWN, THE SURFACE SHALL BE GRADUED SMOOTHLY SO THAT IT WILL DRAIN AND MATCH ADJACENT SURFACES OR STRUCTURES.
12. GENERALITY FOR TREKKING WORKS THE CONTRACTOR MUST:
 - A. COMPLY WITH THE GENERAL PROVISIONS OF SECTION 21 OF THE OCCUPATIONAL HEALTH AND SAFETY ACT.
 - B. COMPLY WITH WITH THE OCCUPATIONAL HEALTH AND SAFETY CODE OF PRACTICE FOR SAFETY PRECAUTIONS IN TREKKING OPERATIONS.
13. AN APPROVED GEOTECHNICAL TESTING AUTHORITY (GTA) SHALL BE ENGAGED BY THE CONTRACTOR FOR THIS PROJECT AND REPORT DIRECTLY TO THE SUPERINTENDENT.
14. ANY STRUCTURES, PAVEMENTS OR SURFACES DAMAGED, DISTURBED OR MADE UNSATISFACTORY DUE TO CONSTRUCTION WORK SHALL BE REINTEGRATED TO THE SATISFACTION OF THE ENGINEER. NO EARTH MACHINERY TO LOAD ONTO EXISTING OR PROPOSED SERVICES.
15. SITE FILL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE GTA UNLESS OTHERWISE APPROVED IMPORTED FILL SHALL:
 - HAVE A MAXIMUM PARTICLE SIZE OF NOT GREATER THAN 15mm
 - HAVE A MINIMUM SOAKED CBR = 15
 - HAVE A MAXIMUM PLASTICITY INDEX OF 15
 - COMPLY WITH SECTION 4 OF A53780
 - BE APPROVED BY THE GTA PRIOR TO PLACEMENT
 - NOT BE LOOSE RUBBLE FROM BUILDING DEMOLITION WORKS
16. TESTING OF THE FILLING BY THE GTA IN ACCORDANCE WITH A53780 SECTION 8 IS REQUIRED. TESTING FREQUENCY SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF A53780.

CONSTRUCT REINFORCED CONCRETE DRIVEWAY TO LOT5 31, 33 & 35, 5% SPECIFIED BELOW :-	
WIDTH	24.0m (LOT5)
DEPTH	125mm
SLUMP	50-80mm
FINISH	EXPOSED AGGREGATE
JUNTS	TOOLED JUNTS @ 4m CRS. MAX EXPANSION JUNTS @ 1km CRS. MAX
REINFORCING	1/ LAYER F12 WESH
CORNER	50mm TO TOP, BOTTOM & SIDES
CR02501665	GRADED TO INVERT OF CHANNEL



TYPICAL SWALE DRAIN SECTION

(SCALE 1:100)



NOTE:
1 IN 4 BATTEES TO BE TURED.
1 IN 6 BATTEES TO BE HYDROMULCHED.
1 IN 12 BATTEES TO BE GRASS SEEDED.

EARTHWORKS LAYOUT PLAN

(SCALE 1:500 - A1)

PLANS AND DOCUMENTS
referred to in the ULDA
APPROVAL dated 27/5/11

APPROVED
OPERATIONAL WORKS
CENTRAL HIGHLANDS REGIONAL COUNCIL

NEIL MCKENZIE & ASSOCIATES PTY. LTD.

CONSULTING ENGINEERS

FW: (U) 2602 139/
EMAIL: mail@neilmckenzie.com.au

SCALE	1500 1/400	DRS PERMIT PROPOSED SUBDIVISION - STAGE 2A HUNTER STREET BLACKWATER
BROWN	15	
CHECKED	N/A	
DESIGNED	N/A	
APPROVED	N/A	
DATE	MAY 10	
CLIENT		MR. COL. HODSON & SONS

DRAWING TITLE
EARTHWORKS LAYOUT PLAN

NUMBER 805-181-02A-01

B
NUMBER

EXISTING CONTROLS
(0.25m INTERVALS)

EXISTING TYPE "M" KEBB AND CHANNEL

PROPOSED STORMWATER /
REAR ALLOTMENT DRAINAGE

EXISTING STORMWATER /
REAR ALLOTMENT DRAINAGE

PROPOSED SEWERAGE RETICULATION

EXISTING SEWERAGE RETICULATION

EXISTING WATER RETICULATION

PROPOSED ROOFWATER DRAINAGE KEBB ADAPTORS

EXISTING ROOFWATER DRAINAGE KEBB ADAPTORS

1. SƠ MẠCH PỐT SHALL BE OF THE TYPES DESIGNATED ON THE DRAWINGS OR, IN LACK THEREOF, APPROVED BY THE SUPERINTENDENT.
2. PIPE TYPES AND CLASSES TO CORRELATE WITH THE FOLLOWING REQUIREMENTS:
 - PVC PIPE FOR LOW DENSITY RESIDENTIAL SHALL BE "N" ACCORDING WITH MS 1524, JUNE 1985, AND FITTINGS FOR SORGHAMITE 1. SUFFICIENT WATER PLANDINGS;
 - PVC PIPE FOR COMMERCIAL, INDUSTRIAL, RESIDENTIAL HIGH DENSITY RESIDENTIAL SHALL BE "N" ACCORDING WITH MS 1524 - PVC PIPE AND FITTINGS FOR SORGHAMITE 1. SUFFICIENT WATER PLANDINGS;
 - ALL JOINTS BE CLASS 5 PVC SHALL BE FORCED 15/16" WITHIN THE CLASS 5 PVC SPEC. CLASS 5/8";
 - ALL JOINTS BE CLASS 5 PVC SHALL BE FORCED 15/16" WITHIN THE CLASS 5 PVC SPEC. CLASS 5/8";
 - PIPE MANUFACTURERS' STANDARD R.C.L. JOINTS;
 - STEEL REINFORCED CONCRETE PIPE (MINIMUM CLASS 2, MAXIMUM CLASS 2, 1/2) SHALL BE USED FOR ALL JOINTS, JOINT TYPE: REEBER RING, FIBRE REINFORCED CONCRETE PIPE (MINIMUM CLASS 2, MAXIMUM CLASS 2, 1/2) SHALL BE USED FOR ALL JOINTS, JOINT TYPE: REEBER RING (SUFFICIENT).

1500 MAX (LINELESS, 1500M OTHER WISED)

1000 BEND

500 RUN

INSPECTION POINT (1000)

ROOFWATER PIPE

RP BODY

600

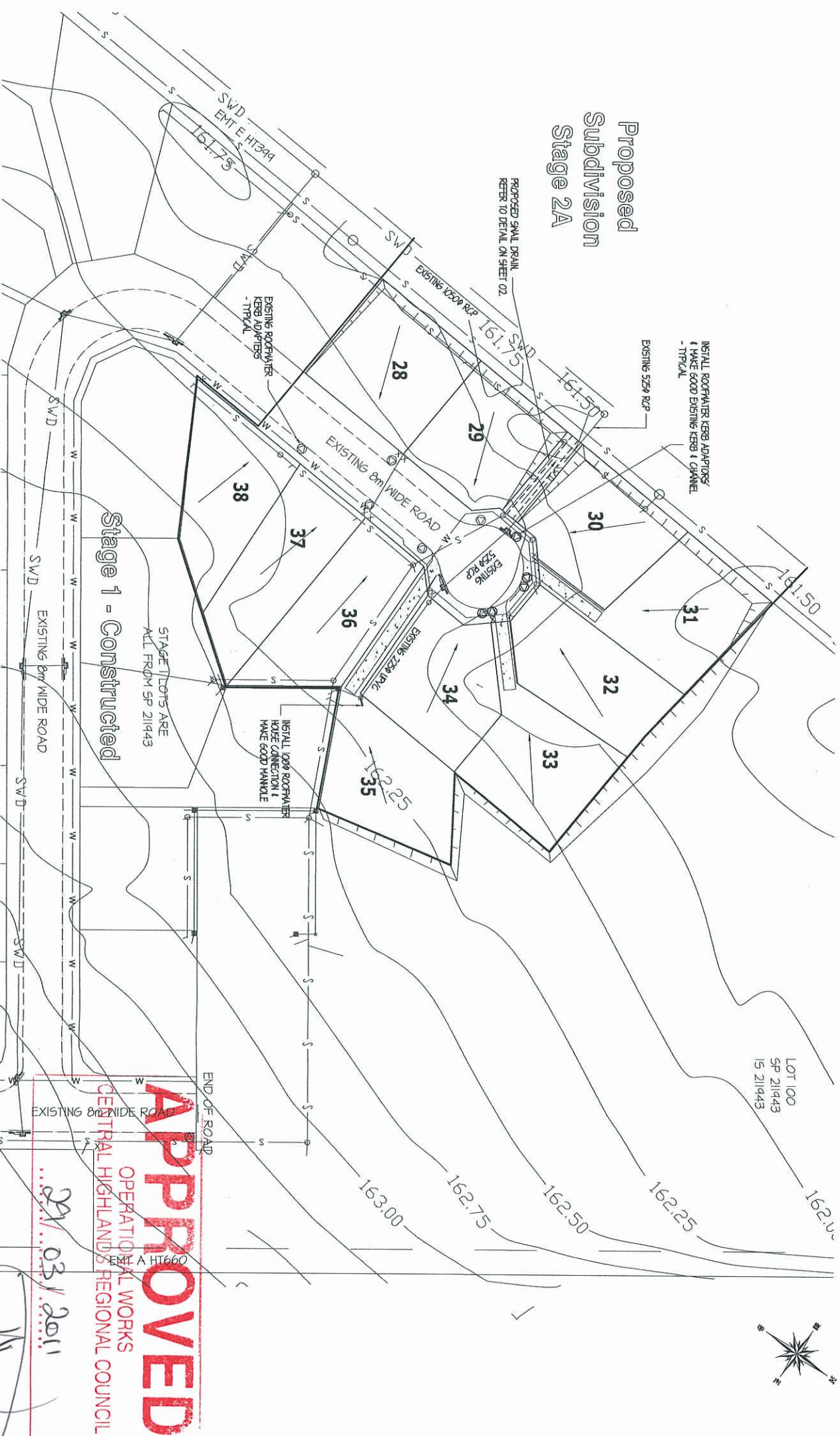
* WHERE THE JUNCTION AND LO ARE WITHIN THE SAME LOT THE LO MAY BE INCORPORATED INTO THE JUNCTION. IF THE JUNCTION AND LO ARE IN A DIFFERENT LOT TO THE ONE BEING SERVED THE LO IS TO BE 300MM CLEAR OF THE BONDWATER WITHIN THE LOT BEING SERVED.

*NOTE: ADD GYPSUM IN SWALE DRAIN @ THE RATE OF 150 GRAMS / SQ. M TO ALLEVIATE THE DISPERSION OF SOILS WITHIN THE PROPOSED SWALE DRAIN.

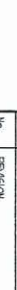
* NOTE: ALL STORMWATER OUTLETS TO HAVE A MIN. OF 6m2 OF CEMENT STONE PITCHING FOR SCOUR PROTECTION, CONFIRMATION OF LOCATION & EXTENT OF SCOUR PROTECTION TO BE CONFIRMED WITH SUPERINTENDENT

***NOTE:** ALL ROADWORKS, INCLUDING PAVEMENT, KERB & CHANNEL, UNDER ROAD DRAINAGE & SIGNAGE HAVE BEEN CONSTRUCTED. WHERE MODIFICATIONS REQUIRED, AS DETAILED, MAKE GOOD EXISTING INFRASTRUCTURE.

PLANS AND DOCUMENTS
referred to in the ULDA
APPROVAL dated 27 / 5 / 11



LAYOUT PLAN
(SCALE 1:500 - A1)

		APPROVED			
					
		MIE M.A. R.P.E.A. 2001 N.P.E.C.E.			
B	FOR CONCL. APPROVAL	16/12/0	15		
A	ERRATA/WORKS	14/02/0	25		
NO.	REVISION	DATE	DATE	THIS DRAWING REMAINS THE PROPERTY OF NEIL MCKENZIE & ASSOCIATES © Copyright	
NEIL MCKENZIE & ASSOCIATES PTY. LTD. C O N S U L T I N G E N G I N E E R S 14/6996 SANGACIE ROAD GLAITFIELD OLD 40111 VIC 3002 PH: 03 9321 1986 FAX: (07) 3862 1387 E-MAIL: neilm@neilmckenzie.com.au					
SCALE		1:500		JOB DESCRIPTION	
DRAWN		J.S.		PROPOSED SUBDIVISION - STAGE 2A	
CHECKED		J.S.		HINTER STREET	
DESIGNED		N.M.		RODFOUR STREET	
APPROVED		N.M.		BLACKWATER	
DATE		MAY '02		CLIENT	
				MR COL HODGSON & SONS	
DRAWING NUMBER		G005-181-02A-02		DRAWING TITLE	
REVISION NUMBER		B		ROADWORKS & DRAINAGE LAYOUT PLAN	

[illegible]

WORK TO BE CARRIED OUT: EXCAVATION, SAFE SHORING & ASSOCIATED WORKS BY CONTRACTOR)								
NO.	DESCRIPTION	TA6	DIA	MH TYPE	FSL	ILL	DEPTH	LID TYPE
(1/A)	COUNCIL TO BREAK INTO EXISTING MH 1/2 AND INSTALL FORMED STUD (TEMPORARY PILEDED).	1/2	50	C/R	161.450	59.480	1.918	○
(1/B)	CONTRACTOR TO LAY LINE 1, INSTALL HOSE CONNECTIONS AND RAISE EXISTING MANHOLE 1/1 TO NEW SURFACE LEVEL..	1/7	50	C/R	161.910	60.182	1.728	○
		2/7	50	C/R	162.040	60.342	1.748	○
		E/7	50	END	162.100	60.596	1.504	○
		1/1	50	C/R	162.350	59.618	2.732	○
(1/C)	COUNCIL TO REMOVE TEMPORARY PILES IN MH 1/2 AFTER SUCCESSFUL ON MAINTENANCE INSPECTION.	1/2	50	C/R	161.450	59.480	1.918	○

1. ALL SEWER CONTRIBUTION, TO BE IN ACCORDANCE WITH THE SEWERAGE CODE OF AUSTRALIA NGA 02-2002 V2.3, AND THE CARPINCORN MUNICIPAL DEVELOPMENT GUIDELINES – DRAINAGE & SPECIFICATIONS.
2. ALL PIPES TO BE 450 IUPAC CLASS 500 RRI, UNLESS SHOWN OTHERWISE ON SEWERAGE PLAN SECTIONS.
3. ALL MANHOLES SHALL BE 1500MM DIA WITH CLASS B MANHOLE LIDS USED IN THE REAR OF PROPERTIES & CLASS D LIDS IN RAFTICABLE AREAS AND ALL PROPERTY FRONTAGE LIDS.
4. FINISHED SURFACE LEVELS SHOWN ON SEWER LONG SECTIONS ARE INDICATIVE ONLY. ALL MANHOLE TOPS SHALL BE COMPLETED AFTER FINAL TRIMMING OF SURROUNDING EXISTENCES AND SHALL BE 150MM ABOVE THE FINISHED SURFACE LEVEL OF THE GROUND ADJACENT TO THE MANHOLE.
5. ALL MANHOLES SHALL BE CONTRIBUTED IN ACCORDANCE WITH THE CARPINCORN MUNICIPAL DEVELOPMENT GUIDELINES DWS 50-5 SERIES, PRECAST MANHOLES APPROVED BY THE DEPT OF LOCAL GOVT MAY BE USED WITH THE APPROVAL OF THE COUNCIL ENGINEER.
6. ALLOTMENTS SHALL BE SERVED BY 150 DIA HOUSE CONNECTIONS & 150MM COVER.
7. ALL HOUSE CONNECTIONS AT FRONT OF ALLOTMENTS TO HAVE A MINIMUM OF 3000MM COVER.
8. BEDDING OF SEWERS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE SEWERAGE CODE OF AUSTRALIA NGA 02-2002 V2.3.
9. SEWER ALIGNMENTS TO BE AS FOLLOWS:
 1. 15M OFF FRONT AND REAR
 2. BOUNDARIES 1.0M OFF SIDE BOUNDARIES
 3. 2.0M OFF REAR ADJACENT TO RIMFATER (I/N/O).
 4. HOS TO BE LOCATED 1M UPSTREAM OF THE ALLOTMENT BOUNDARY AND IN ACCORDANCE WITH THE CARPINCORN MUNICIPAL DEVELOPMENT GUIDELINES.
 5. ALL WORK OR CONNECTIONS ASSOCIATED WITH LIDE SEWERS TO BE CARRIED OUT BY THE CONTRACTOR UNDER COUNCIL SUPERVISION.
10. SEWER HOSE CONNECTIONS TO EXTEND 1.0M BEYOND ROOFMASTER PIPE.
11. DICI PIPE SHALL BE USED WHERE THERE IS LESS THAN 3000MM SEPARATION TO WATER, ROOFMASTER DRAINS AND ROAD DRAINAGE RETICULATION.

HOSE CONNECTIONS HAVE BEEN DESIGNED TO CONTROL ALL OF THE BLOCK AT A GRADE OF 10' IN A 10' DEPTH OF PROPERTY LIMITED BY THE 10' DEPTH OF THE FINISHED COVER IS REQUIRED TO SERVE THE BLOCK.

THE CONTRACTOR IS TO NOTIFY THE SUPERVISING ENGINEER OF ANY DISCREPANCIES BETWEEN THE DESIGN PLANS AND THE CONDITIONS ON SITE PRIOR TO COMMENCEMENT OF ANY PILE LAYING.

ALL WATER AND SEWER CONSTRUCTION WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORKPLACE HEALTH AND SAFETY ACT 1985.

CONTACT YOUR NEAREST OFFICE OF THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION.

FINISHED SURFACE LEVEL 5 SHOWN ON LONG SECTIONS ARE INDICATIVE ONLY. ALL MANHOLE TOPS SHALL BE COMPLETED AFTER FINAL TRAINING OF SURROUNDING EXISTING WORKS AND SHALL BE 10mm ABOVE THE FINISHED SURFACE LEVEL OF THE GROUND ADJACENT TO THE MANHOLE.

EXISTING CONTOURS
(0.25m INTERVALS)

EXISTING TYPE III KERB AND CHANNEL

PROPOSED STORMWATER /
REAR ALLOTMENT DRAINAGE

EXISTING STORMWATER /
REAR ALLOTMENT DRAINAGE

PROPOSED SEWERAGE RETICULATION

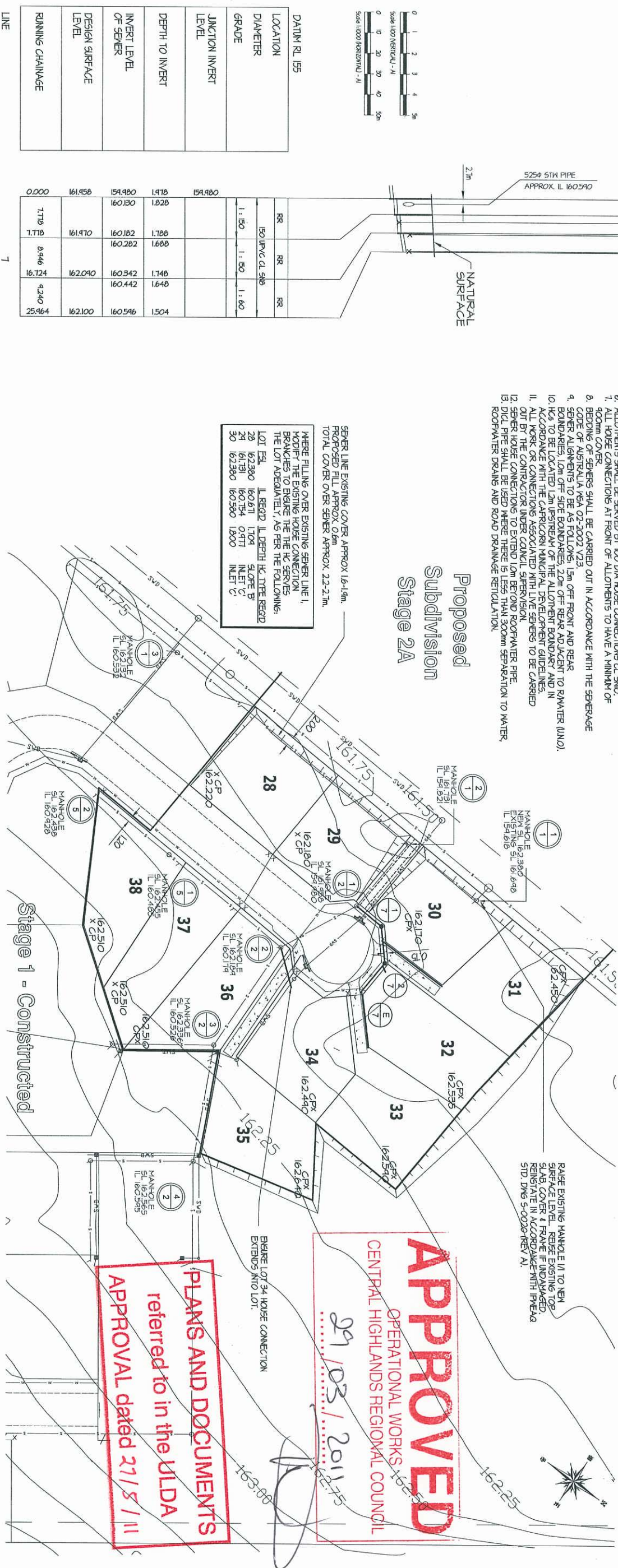
EXISTING SEWERAGE RETICULATION

EXISTING WATER RETICULATION

FINISHED SURFACE LEVEL
AT ALLOTMENT CONTROL

PROPOSED SEWER TAG

EXISTING SEWER TAG



B	FOR COMPL. APPROVAL	16/12/10	15.
A	EARTHWORKS	14/10/10	15.
No.	REVISION	DATE	DRAWN

NEIL MCKENZIE & ASSOCIATES PTY. LTD.
CONSULTING ENGINEERS

SCALE	1:500	JOB DESCRIPTION PROPOSED SUBDIVISION - STAGE 2A HUNTER STREET BLACKWATER
DRAWN	J.S.	
CHECKED	N.H.	
DESIGNED	N.H.	
APPROVED	N.H.	
DATE	MAY 10	CLIENT MR. COL HODGSON & SONS

DRAWING TITLE
SEWER RETICULATION LAYOUT PLAN
LONGITUDINAL SECTION & DETAILS

DRAWING
LAYER

Q05-187-02A-03

REVISION NUMBER	B
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LEGEND

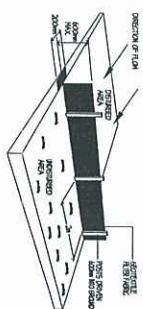
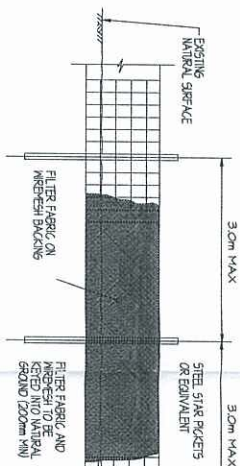
- EXISTING CONTOURS (0.25m INTERVALS)
- EXISTING TYPE 'M' KERB AND CHANNEL
- PROPOSED STORMWATER / REAR ALLOTMENT DRAINAGE
- EXISTING STORMWATER / REAR ALLOTMENT DRAINAGE
- PROPOSED SEWERAGE RETICULATION
- EXISTING SEWERAGE RETICULATION
- EXISTING WATER RETICULATION
- SEDIMENT CONTROL FENCING.
- GULLY PROTECTION SAND BAGS OR APPROVED EQUIVALENT.

SILT MANAGEMENT NOTES

- WORKS TO BE CARRIED OUT IN ACCORDANCE WITH D.S.C. BY-LAW NO.28
- AND CARBON MUNICIPAL DEVELOPMENT GUIDELINES
- CONSTRUCTION IS TO BE MANAGED SUCH THAT AREAS NOT REQUIRED FOR SEDIMENT CONTROL PURPOSES ARE TO BE LEFT UNDISTURBED WHERE POSSIBLE
- SEDIMENT CONTROL DESIGN MEASURES SHOULD BE SET IN PLACE PRIOR TO ANY CONSTRUCTION COMMENCING.
- THE CONTRACTOR IS TO MAINTAIN A CLEAN CUT ALL STRUCTURES IN ACCORDANCE WITH CARBON MUNICIPAL DEVELOPMENT GUIDELINES
- SEDIMENT FENCE TO BE PLACED TO THE REAR OF THE 200mm DIA. THE NETTING CULVERS ARE TO BE PLACED IN A CIRCLE EXTENSION FROM THE FRONT OF THE KERB & BACK ONTO THE FOOTPATH BEHIND.
- ALTERNATIVELY USE 50 DIA PERFORATED PIPE ENCLOSED IN A GEO-TEXTILE SOCK TO PREVENT SEDIMENT ENTERING INLETS.
- ONCE TRENCHES ARE BACKFILLED THEY ARE TO BE IMMEDIATELY TOP-DRESSED & SEEDED OR TURFED.
- PROVIDE FENCING OF ALL DISTURBED AREAS TO BE CARRIED OUT WITHIN 7 DAYS OF FINISHING
- PROVIDE SAND BAGS ON THE UPSTREAM SIDE OF STORMWATER GULLIES AND MANHOLES PRIOR TO THEIR CONSTRUCTION.
- BOOM TURF TO BE PLACED ON FOOTPATH AT BACK OF ALL NEW KERBS & CHANNEL & AROUND PROPERTY FITS.
- 400mm TURF TO EXIST OF DRIVEWAYS.
- PROVIDE 6 m2 STONE/CHIP TO ALL INLETS.
- PRIOR TO GRAVEL CULVERS BEING PLACED AS PER NOTE 5, CUT OFF FROM THE STORMWATER SYSTEM.
- SEDIMENT CONTROL MEASURES TO BE MAINTAINED IN GOOD WORKING ORDER
- SEDIMENT RESIDUE TO BE WASHED ONTO PAVEMENT SURFACES OR CONTAINED WITHIN TEMPORARY SEDIMENT DAPS CREATED FROM BUND WALLS OR TIGHTLY STACKED SANDBAGS. WHEN DRY, THE SEDIMENT RESIDUE TO BE SHOVELLED INTO A WASTE DISPOSAL BIN.
- ACCIDENTAL SPILLS OF SOIL OR OTHER MATERIALS ONTO THE ROAD OR GULLIES TO BE REMOVED VIA APPROPRIATE DISPOSAL AS INCIDENTS OCCUR.
- ROADS AND GULLIES TO BE KEPT CLEAR OF SEDIMENT TO BE COLLECTED TO AVOID ANY SPILLS ARE TO BE COVERED AND DISPOSED OF TO AN APPROPRIATE OFF-SITE DISPOSAL AREA.
- MAINTENANCE
- EVERY DAY AND AFTER EACH RAIN EVENT INSPECT, CLEAN AND REPAIR IF REQUIRED, THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.
- REMOVAL
- REMOVE TEMPORARY CONTROL MEASURES ONLY WHEN ALL LANDSCAPED AREAS ARE FULLY DEVELOPED.

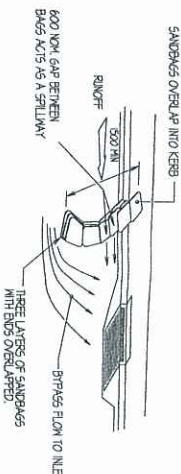
INSTALLATION SEQUENCE :

- INSTALL SEDIMENT FENCES ALONG THE LONG SIDE OF THE SITE
- DIVERT UP-SLOPE WATER AROUND THE WORK SITE AND STABILISE ANY CHANNELS
- STOCKPILE TOPSOIL WITHIN THE SEDIMENT CONTROLLED ZONE
- STABILISE EXPOSED EARTH BANKS (E.G. VEGETATION EROSION CONTROL MATS)
- INSTALL ON-SITE WASTE RECEPTILES (E.G. MINI-SKIPS, BINS, WIND-PROOF LITTER RECEPTORS)
- COMMENCE BUILDING ACTIVITIES
- MAINTAIN ALL CONTROL MEASURES IN GOOD WORKING ORDER
- REVEGETATE OR OTHERWISE STABILISE THE SITE



SEDIMENT FENCE

- MAINTENANCE PROGRAM FOR SILT FENCES
- REGULAR INSPECTIONS WILL BE REQUIRED TO CONTROL DAMAGE CAUSED BY ON SITE VEHICLES OR MOVEMENT OF STOCKPILES.
 - INSPECTED AFTER EACH SIGNIFICANT RAIN THAT RESULTS IN EXCESSIVE SEDIMENT DEPOSITIONS.
 - REMOVE EXCESS SEDIMENT DEPOSITIONS.
 - INVESTIGATE THE SOURCE OF ANY EXCESSIVE SEDIMENT. REFER DWP.
- NOTE: SILT MANAGEMENT
- SILT FENCES ARE TO BE ENCLOSED HERE CONTINUING DURING CONSTRUCTION REPAIR THE CONTROL OF ANY EXCESSIVE SILT DEPOSITION ON THE SITE IS DIRECTED BY THE SUPERVISOR.



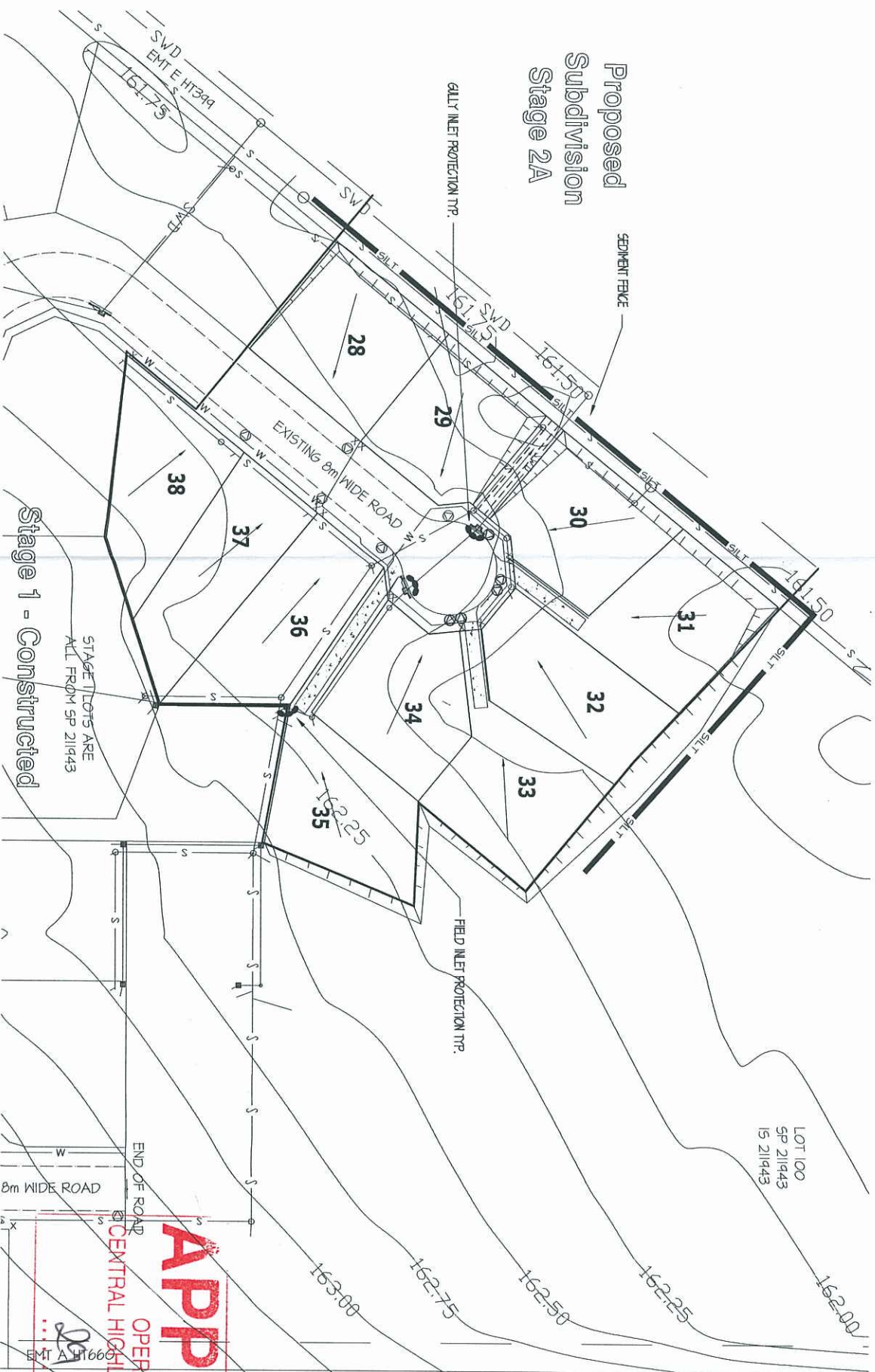
GULLY INLET PROTECTION DETAIL

- MAINTENANCE PROGRAM FOR GULLY INLET PROTECTION
- SAND BAGS TO BE PLACED AT ALL GULLY FITS WITHIN SEVEN DAYS OF SEALING ROADWAY AND PLACING TOPSOIL ON ADJACENT FOOTPATH/ALLOTMENTS. SAND BAGS TO REMAIN IN POSITION UNTIL ADJACENT FOOTPATH/ALLOTMENTS HAVE APPROXIMATELY 60% GRASS COVERAGE.
 - REGULAR INSPECTIONS AFTER EACH RAINFALL EVENT TO ENSURE THAT THE PROTECTION DEVICE IS STILL IN PLACE AND ANY EXCESSIVE SEDIMENT DEPOSITIONS ARE TO BE REMOVED.

PLANS AND DOCUMENTS

referred to in the ULDA

APPROVAL dated 27 / 5 / 11



EROSION & SEDIMENT CONTROL

LAYOUT PLAN

Scale 1:500 - A1

APPROVED

OPERATIONAL WORKS

03 / 2011

03 / 2011

NEIL MCKENZIE & ASSOCIATES PTY. LTD.
CONSULTING ENGINEERS
14/5999 SANDGATE ROAD
CLAYFIELD, QLD 4011
PHONE: (07) 3862 1886
FAX: (07) 3862 1397
EMAIL: neilm@neilmckenzie.com.au

SCALE	1:500
DESIGNED	NS
CHECKED	NS
APPROVED	NS
DATE	NS

DRAWING TITLE	EROSION & SEDIMENT CONTROL LAYOUT PLAN
DRAWING NUMBER	Q05-187-02A-05
REVISION NUMBER	B