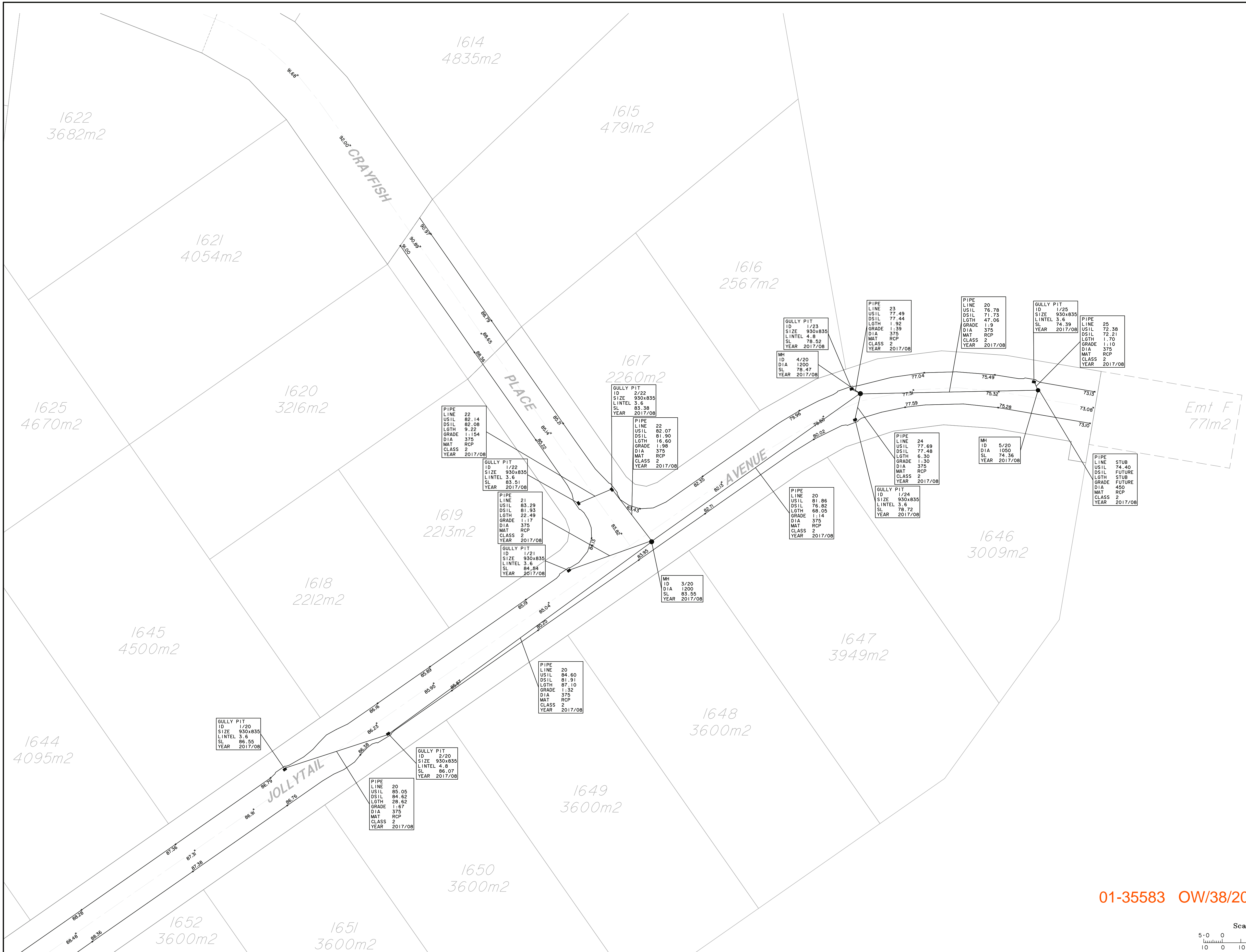
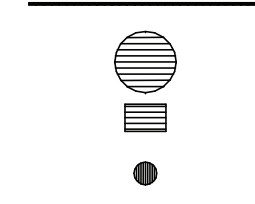


LEGEND:  
 New Drainage Line  
 New Drainage MH  
 New Drainage Pit  
 New Drainage HW



**LOGAN CITY COUNCIL**  
**ACCEPTED AS CONSTRUCTED DRAWING**  
 This is the accepted As Constructed Drawing for Development Application  
 OW/38/2016  
 It is accepted on the certification of the Surveyor/RPEQ. For the approved  
 As Constructed Drawing please refer to the Approved Design As  
 Constructed Drawing.

**01-35583 OW/38/2017**

Scale 1 : 500 @ A1 paper size - Lengths are : Metres.  
 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

MINOR AMENDMENTS	17/12/17	SPR	
MINOR AMENDMENTS	23/11/17	SPR	
REVISIONS	DATE	BY	CHKD

**IMPORTANT NOTE.**  
 This Plan has been prepared for Logan City Council for the purpose of recording the As Constructed details of a new service constructed under a specific Council Approval and should not be used for any other purpose. No report is made on any other service/s, nor any service/s that may exist before or be constructed after, the time of survey, or constructed under any other approval. The property boundaries, easements and lot numbers shown hereon may be proposed only and subject to registration by the Department of Natural Resources & Mines. All property information should be determined from the registered Survey Plans.

THIS NOTE IS AN INTEGRAL PART OF THIS PLAN.

**SCHLENCKER SURVEYING (QLD)**  
 Registered Surveyors  
 Rockhampton Brisbane Gold Coast

ABN: 38 909 833 411  
 Homebush QLD 4210.  
 Suite 106,  
 Homebush Professional Centre  
 3 Sir John Cayne Dr.,  
 Homebush QLD 4210.

Ph: (07) 5512 8144  
 Fax: (07) 5512 8150  
 Mob: 0423 546 909  
 EMAIL: mail@schlenker.com.au

Registered Surveyors' Certification:  
 I, Bruce Victor DALTON hereby certify that the vertical and horizontal locations, and dimensions shown on this plan are a true and correct record of the As Constructed information.

Signed: *B Dalton* Date: 15/07/2017  
 For and on behalf of Schlencker Surveying (Qld) Pty. Ltd.

Consulting Engineer's Certification:  
 1. I state that the works described on this drawing have been constructed under my supervision, and I or my authorised representatives have inspected the works at all stages of construction.  
 2. I certify that the works have been constructed in accordance with the development approval, the approved drawings, the Logan Planning Scheme 2006 and any relevant planning scheme policies and standards specifications.

3. I certify that the approved drawings have been carefully compared with the site works as to line, levels and dimensions, and this drawing has been accurately amended: all respects as to constitute a true record of the works.

Project Name: .....  
 Company: .....  
 Consultant: .....  
 RPEQ/CPEng Membership No.: .....

Signature: ..... Date: .....

SURVEYOR: PAN  
 DRAWN BY: SPR  
 JOB NO: 15159  
 LOCAL AUTHORITY: LOGAN  
 PARISH: STANLYN  
 COUNTY: STANLYN  
 LEVEL DATUM: AHD Der  
 LEVEL ORIGIN: PM61324  
 RL: 69.322

**AS CONSTRUCTED DRAINAGE**  
 Spring Mountain Estate, Stage 16B  
 GREENBANK  
 RL / 44 / 2008 / B  
 OW / 361 / 2016

SCALE: 1:500 (@A1) PLAN NO: 15159-27

SHEET: 1 OF 1



# PROPOSED RESIDENTIAL DEVELOPMENT

## SPRING MOUNTAIN ESTATE

### STAGE 16B

#### CIVIL ENGINEERING OPERATIONAL WORKS

FOR : PEET PTY LTD

#### STAGE 16B

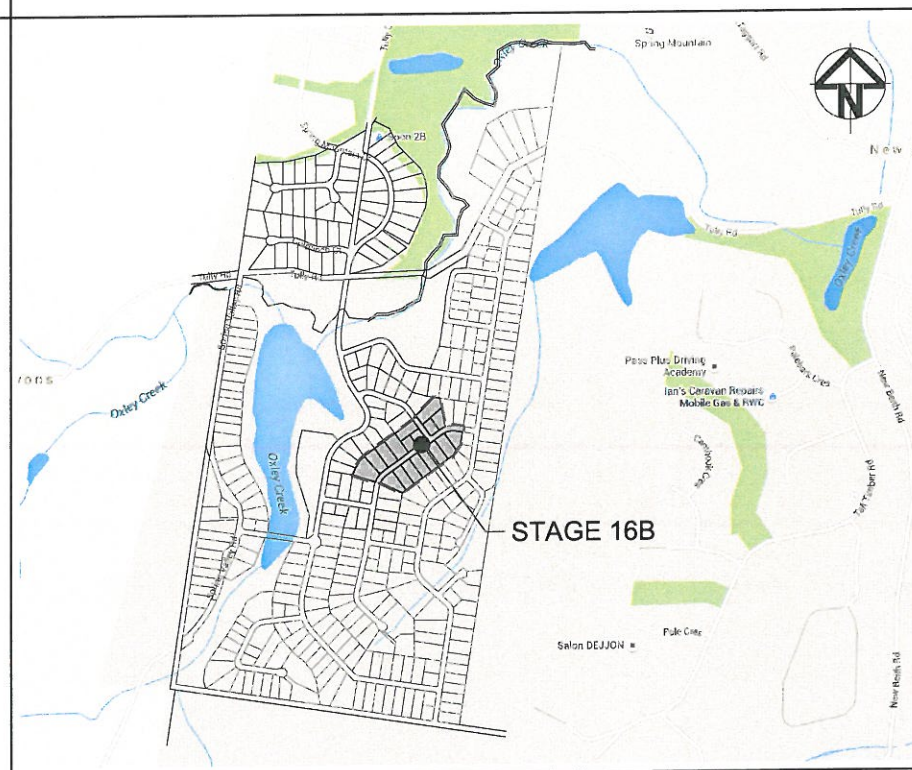
1. I state that the works described on this drawing have been constructed under my supervision, and I or my authorised representatives have inspected the works at all stages of construction.

2. I certify that the works have been constructed to my satisfaction and in accordance with the development approval, the approved drawings, the Logan Planning Scheme 2015 / Beaudesert Shire Planning Scheme 2007 and any relevant planning scheme policies and standard specifications.

3. I certify the approved drawings have been carefully compared with the works site as to line, levels and dimensions, and this drawing has been accurately amended in all respects as to constitute a true record of the works.

Project Name: Spring Mountain Estate Stage 16B  
 Company: PEET PTY LTD  
 Consultant: Sedgman Consulting  
 RPEQ/CPEng Membership No. 6554  
 Application Number: OW/38/2017

Signature: *[Signature]*  
 Date: 7/12/17



**SITE PLAN**  
 SCALE N.T.S  
 (SOURCED FROM GOOGLE MAPS)

**LEVELS & GRID**  
 LEVELS TO AHD  
 (AUSTRALIAN HEIGHT DATUM)  
 GRID ASSUMED LOCAL

DRAWING INDEX	
DWG No.	DESCRIPTION
A441-C-16B-0000	COVER SHEET, DRAWING INDEX & LOCALITY PLAN
A441-C-16B-0001	GENERAL NOTES
A441-C-16B-0002	KEY SHEET PLAN
A441-C-16B-0100	TYPICAL DETAILS
A441-C-16B-0200	BULK EARTHWORKS PLAN SHEET 1 OF 2
A441-C-16B-0201	BULK EARTHWORKS PLAN SHEET 2 OF 2
A441-C-16B-0202	EROSION & SEDIMENT CONTROL PLAN SHEET 1 OF 2
A441-C-16B-0203	EROSION & SEDIMENT CONTROL PLAN SHEET 2 OF 2
A441-C-16B-0204	EROSION & SEDIMENT CONTROL NOTES & DETAILS
A441-C-16B-0300	ROAD ALIGNMENT PLAN & TABLES
A441-C-16B-0301	ROADWORKS & DRAINAGE PLAN SHEET 1 OF 2
A441-C-16B-0302	ROADWORKS & DRAINAGE PLAN SHEET 2 OF 2
A441-C-16B-0303	CRAYFISH PL & JOLLYTAIL AVE LONGITUDINAL SECTIONS
A441-C-16B-0304	CRAYFISH PL CROSS SECTIONS
A441-C-16B-0305	JOLLYTAIL AVE CROSS SECTIONS SHEET 1 OF 2
A441-C-16B-0306	JOLLYTAIL AVE CROSS SECTIONS SHEET 2 OF 2
A441-C-16B-0307	INTERSECTION DETAILS
A441-C-16B-0308	MEDIAN SETOUT DETAILS
A441-C-16B-0400	STORMWATER CATCHMENT PLAN
A441-C-16B-0401	STORMWATER LONGITUDINAL SECTIONS
A441-C-16B-0402	STORMWATER CALCULATION TABLE
A441-C-16B-0600	WATER RETICULATION PLAN SHEET 1 OF 2
A441-C-16B-0601	WATER RETICULATION PLAN SHEET 2 OF 2

**LOGAN CITY COUNCIL**  
**APPROVED AS CONSTRUCTED DRAWING**  
 This is the approved As Constructed Drawing for  
 Development Application  
 OW/38/2017  
 CD Reference Number  
 1098 B

THIS DESIGN AND PLAN IS COPYRIGHT AND IS NOT TO BE USED OR REPRODUCED WHOLLY OR IN PART OR TO BE USED ON ANY PROJECT WITHOUT THE WRITTEN PERMISSION OF SEDGMAN CONSULTING PTY LTD DRAWING IS NOT TO BE SCALED

SCALE (AT ORIGINAL SHEET SIZE)	ORIGINAL SHEET SIZE
NOT TO SCALE	A1



PROJECT  
**SPRING MOUNTAIN ESTATE  
 STAGE 16B**

CLIENT

STAGE / PHASE **AS CONSTRUCTED**



LEVEL 1, 193 FERRY ROAD SOUTHPORT QLD 4215 AUSTRALIA  
 T 07 5558 4200 consult@sedgman.com www.sedgman.com/sedgman-consulting

TITLE <b>COVER SHEET, DRAWING INDEX &amp; LOCALITY PLAN</b>					
TASK	BY	INITIAL	DATE	APPROVED	RPEQ No
REVIEW	S.S.		19.12.16	DRAWING NUMBER	REVISION
DESIGN	K.E.		09.12.16	A441-C-16B-0000	AC
DRAWN	M.G.		09.12.16		

REV	DESCRIPTION	DRAWN	DATE
AC	AS CONSTRUCTED	H.H.	03.11.17
A	ORIGINAL ISSUE	M.G.	09.12.16



**GENERAL**

- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE FOLLOWING DOCUMENTS:
  - OTHER PROVIDED ENGINEERING DRAWINGS
  - TECHNICAL SPECIFICATIONS
  - SUPPLEMENTARY SPECIFICATIONS
  - WRITTEN INSTRUCTIONS
- ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT SPECIFICATION FOR THE WORKS TOGETHER WITH THE REQUIREMENTS OF ALL THE RELEVANT CODES OF PRACTICE REFERRED TO THEREIN AND THE REQUIREMENTS OF BEAUDESERT SHIRE COUNCIL STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND PROVISION OF ANY TEMPORARY BRACING, PROPPING ETC. TO DRAINAGE PIPES DURING CONSTRUCTION. STRUCTURES SHALL BE MAINTAINED IN A STABLE POSITION AND NO PART SHALL BE OVERSTRESSED.
- ALL LOCATIONS, ORIENTATION AND LEVELS SHALL BE VERIFIED ON SITE BEFORE COMMENCING ANY WORK. DISCREPANCIES SHALL BE REFERRED TO THE SITE SUPERINTENDENT.
- DO NOT OBTAIN DIMENSIONS FROM SCALING.
- NATURAL SURFACE LEVELS ON THE DRAWINGS ARE INDICATIVE ONLY.
- ANY PERMITS AND APPROVALS REQUIRED FOR CONSTRUCTION OF PERMANENT OR TEMPORARY WORKS SHALL BE OBTAINED BY THE CONTRACTOR.
- BEAUDESERT SHIRE COUNCIL (B.S.C.) STANDARD DETAILS ARE TO BE ADOPTED UNLESS STATED OTHERWISE.

**BULK EARTHWORKS**

- ALL EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH B.S.C. STANDARD SPECIFICATIONS AND AS3798, UNDER LEVEL 1 SUPERVISION.
- ALL NEW WORKS TO MATCH NEATLY WITH EXISTING.
- REFER TO SITE CROSS SECTIONS FOR BATTER GRADES. WHERE GRADES ARE NOT SPECIFIED--  
FILL - 1:6  
CUT - 1:4
- UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT, ALL FILL SHALL BE PLACED AT BETWEEN +2% AND -2% OF OPTIMUM MOISTURE CONTENT.
- AN RPEQ CERTIFIED ENGINEER SHALL INSPECT THE SUBGRADE DURING COMPACTION AND ANY WEAK SPOTS SHALL BE REMOVED AND REPLACED WITH MINIMUM CBR15 MATERIAL.
- ALL OF THE SITE SHALL BE KEPT FREE DRAINING DURING ALL PHASES OF THE PROJECT.
- ALL DISTURBED AREAS SHALL BE TOPSOILED (MINIMUM THICKNESS 100mm) AND BE GRASS SEEDDED UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL CONFIRM LOCATION OF ALL EXISTING SERVICES AND PROTECT THESE SERVICES DURING CONSTRUCTION. DAMAGED SERVICES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- NOTWITHSTANDING THE LIMITS AND FILLING SHOWN ON THE CROSS SECTIONS THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT DURING CONSTRUCTION AND SIMILARLY THE FINISHED SURFACE CONTOURS MAY BE ADJUSTED BY WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION.

**ROAD WORKS**

- NOTWITHSTANDING THE DETAILS SHOWN ON THE DRAWINGS ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH B.S.C. STANDARD SPECIFICATIONS AND DRAWINGS.
- SIDE DRAINS SHALL BE CONSTRUCTED UNDER ALL NEW KERB AS SPECIFIED WITHIN THESE DRAWINGS AND AS DIRECTED BY THE SUPERINTENDENT.
- FLUSHING POINTS SHALL BE PROVIDED FOR SIDE DRAINS AT THE REQUIRED SPACINGS IN ACCORDANCE WITH B.S.C. STANDARD DRAWINGS AND SPECIFICATIONS. GEOTECHNICAL TEST RESULTS ARE TO BE FORWARDED TO THE SUPERINTENDENT PRIOR TO BOXING. TESTS SHALL INCLUDE SOAKED C.B.R. AND/OR OTHER TESTS AS REQUESTED BY THE SUPERINTENDENT. THESE TESTS SHALL BE USED TO CONFIRM THE PAVEMENT DESIGN SHOWN ON THESE DRAWINGS AND BE IN ACCORDANCE WITH B.S.C. SPECIFICATIONS.
- THE PAVEMENT DESIGN ON THE DRAWINGS IS NOT FOR CONSTRUCTION UNTIL FINAL CBR TESTS ARE REVIEWED AND APPROVED BY THE SITE SUPERINTENDENT. CONSTRUCTION OF THE PAVEMENT TO THE DESIGN SHOWN ON THE DRAWINGS, PRIOR TO RECEIPT OF THE FINAL CBR TESTS, SHALL BE UNDERTAKEN AT THE CONTRACTORS OWN RISK.
- THE CONTRACTOR SHALL OBTAIN THE LOCATION OF ALL SERVICES AND PROTECT THESE SERVICES PRIOR TO WORKING IN THE VICINITY. ANY DAMAGE WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- WORKS TO ANY SERVICES SHOULD BE DONE IN CONSULTATION WITH THE APPROPRIATE SERVICE PROVIDER.
- TEMPORARY WARNING SIGNS TO BE ERECTED AS PER THE DEPARTMENT OF TRANSPORT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
- SEAL TO BE A.C. SURFACING - AS SPECIFIED.

**DRAINAGE**

- ALL DRAINAGE STRUCTURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING DOCUMENTS:
  - I.P.W.E.A.Q. STANDARD DRAWINGS AND SPECIFICATIONS,
  - MAIN ROADS STANDARD DRAWINGS AND SPECIFICATIONS,
  - B.S.C. DESIGN GUIDELINES, STANDARD DRAWINGS AND SPECIFICATIONS;
  - ANY MANUFACTURERS STANDARD DRAWINGS AND SPECIFICATIONS.
- ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT SPECIFICATION FOR THE WORKS TOGETHER WITH THE REQUIREMENTS OF ALL THE RELEVANT CODES OF PRACTICE REFERRED TO THEREIN AND THE REQUIREMENTS OF THE STATUTORY AUTHORITIES WHERE APPLICABLE.
- STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE ASSESSMENT OF CONSTRUCTION LOADS AND PROVISION OF ANY TEMPORARY BRACING, PROPPING, ETC. REQUIRED DURING CONSTRUCTION. STRUCTURES SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.
- PRECAST REINFORCED CONCRETE PIPES ARE TO BE MANUFACTURED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS 4058 AND AS 1992.
- ALL STORMWATER PIPES SHALL BE CLASS '2' RCP. UNLESS NOTED OTHERWISE.
- ALL PIPES UP TO AND INCLUDING Ø600 ARE TO BE SPIGOT & SOCKET RUBBER RING JOINTED. ALL PIPES ABOVE Ø600 ARE TO BE FLUSH JOINTED UNLESS NOTED OTHERWISE.
- HEADWALL END STRUCTURES TO BE PRECAST CONCRETE WITH CONCRETE APRONS (INCLUDING CUT OFF WALLS) UNLESS NOTED OTHERWISE. REFER TO I.P.W.E.A.Q. DRG. D-0080 & D-0081 AND DMR STD DRG 1304 FOR DETAILS.
- BACKFILL AND BEDDING TO PIPES TO BE IN ACCORDANCE WITH B.S.C. STANDARD DRAWINGS AND SPECIFICATIONS.
- UNSATISFACTORY FOUNDING MATERIAL FOR PIPES AND STRUCTURES SHALL BE REMOVED OR IMPROVED IN ACCORDANCE WITH B.S.C. AND MAIN ROADS SPECIFICATIONS.
- ALL TRENCH BACK FILL MATERIAL UNDER THE PAVEMENT SHALL BE CBR 15 OR APPROVED EQUIVALENT.
- STEEL GRATES AND FRAMES ARE TO BE FABRICATED FROM MILD STEEL AND HOT DIP GALVANISED. ALL GRATES ARE TO BE CLASS D (UNLESS NOTED OTHERWISE) AND BICYCLE SAFE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS 3996 UNLESS NOTED OTHERWISE.
- GRATE SUPPORT TO BE CONSTRUCTED LEVEL TO ENSURE THAT THE GRATE DOES NOT ROCK AFTER INSTALLATION.
- ALL LEVELS ARE APPROXIMATE ONLY AND ARE SUBJECT TO FULL DETAIL SURVEY OF THE EXISTING STRUCTURE.
- THE THICKNESS OF THE RIP-RAP PROTECTION SHALL BE TWICE THE D50 STONE SIZE SPECIFIED ON THE DRAWINGS.
1. THE STONE SHALL BE REASONABLY WELL GRADED THROUGHOUT THE RIP-RAP LAYER. STONE SIZE SHALL BE DEPENDANT ON THE D50 VALUE SPECIFIED ON THE DRAWINGS D10 SHALL BE 0.5xD50 AND D90 SHALL BE 1.35xD50 STONES SMALLER THAN THE SPECIFIED D10 ARE NOT TO EXCEED 20% BY WEIGHT OF EACH LOAD.
2. ROCK IS TO BE HARD, DENSE, DURABLE, RESISTANT TO WEATHERING AND ANGULAR IN SHAPE. IT SHALL BE FREE FROM OVERBURDEN, SPOIL SHALE AND ORGANIC MATTER. ROCK THAT IS LAMINATED, FRACTURED, POROUS OR OTHERWISE PHYSICALLY WEAK SHALL NOT BE USED.
3. AN APPROXIMATE GUIDE TO STONE SHAPE. THE BREADTH OR THICKNESS OF A SINGLE STONE SHOULD NOT BE LESS THAN ONE-THIRD ITS LENGTH. ROUND MATERIAL CAN BE USED AS RIP-RAP PROVIDED IT IS NOT PLACED ON SLOPES GREATER THAN 3H : 1V.

**ENVIRONMENTAL**

- WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHOULD BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES MUST BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
- WHERE POSSIBLE, TREE ROOTS SHALL BE TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHOULD BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT COUNCIL ARBORIST FOR FURTHER ADVICE.
- TOPSOIL AND SUBSOIL SHOULD BE STOCKPILED SEPARATELY.
- CARE SHOULD BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.
- SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
- APPROPRIATE SEDIMENT CONTROLS SHALL BE UTILISED TO PREVENT SEDIMENT ENTERING ANY NATURAL WATERCOURSE.
- NO SOIL SHALL BE STOCKPILED WITHIN 5m OF A NATURAL WATERCOURSE.
- ALL ENVIRONMENT PROTECTION MEASURES SHOULD BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING, COMMENCING.

**WATER**

- NOTWITHSTANDING THE DETAILS SHOWN ON THE DRAWINGS ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SEQ WATER SUPPLY AND SEWERAGE DESIGN & CONSTRUCTION CODE.
- ALL WATER MAINS TO BE 150mm DIAMETER PVC-M PN 16 UNLESS NOTED OTHERWISE.
- ALL FITTINGS SHALL BE D.I.C.L. PN35 AND COMPLY WITH AS2280.
- ANCHOR BLOCKS SHALL BE INSTALLED AT ALL BENDS, JUNCTIONS AND DEAD ENDS.
- ROAD CROSSING BULKHEADS ARE TO BE PROVIDED AT ALL ROAD CROSSINGS IN ACCORDANCE WITH SEQ WS&S D&C CODE STANDARD DRAWINGS.
- WATER SERVICE TO BE PROVIDED TO ALL ALLOTMENTS IN ACCORDANCE WITH SEQ WS&S D&C CODE STANDARD DRAWINGS.
- ALIGNMENT OF WATER MAINS IS AS PER SEQ WS&S D&C CODE STANDARD UNLESS NOTED OTHERWISE.
- ALL TRENCH BACK FILL MATERIAL UNDER ROAD PAVEMENT SHALL BE CBR 15 OR APPROVED EQUIVALENT.
- ALL CONNECTIONS TO LIVE MAINS ARE BY LOGAN WATER AT DEVELOPERS EXPENSE.
- EMBEDMENT FOR NEW WATER MAINS WITHIN NEW ROAD RESERVES TO BE "TYPE C" IN ACCORDANCE WITH SEQ-WAT-1201-1 UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.

**SIGNAGE**

- FINAL SIGN LOCATIONS TO BE DETERMINED ON SITE BY THE SUPERINTENDENT.
- ALL TRAFFIC SIGNS TO BE SIZE 'B' UNLESS NOTED OTHERWISE.
- FOR GUIDE POST INSTALLATION AND DETAILS, REFER B.S.C. STANDARD DRAWING No.50420.
- FOR TRAFFIC SIGN SUPPORT DETAILS, REFER QUEENSLAND TRANSPORT STANDARD DRAWING No.'s 1363.
- ALL SIGN MATERIAL TO BE CLASS 1.
- ALL SIGNAGE, LINEMARKING & RRPMs ARE TO BE PREPARED IN ACCORDANCE WITH THE CURRENT QUEENSLAND TRANSPORT 'MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES' (M.U.T.C.D.).

**LINEMARKING**

- ALL LINEMARKING TO BE REFLECTORISED WHITE.
- FINAL SIGN LOCATIONS TO BE DETERMINED ON SITE BY THE SUPERINTENDENT.
- EXISTING LINEMARKING SUPERSEDED BY NEW LINEMARKING IS TO BE REMOVED BY ROUTING OR OTHER METHOD APPROVED BY QUEENSLAND TRANSPORT.
- COLOUR OF ALL REFLECTORISED PAVEMENT MARKERS TO BE WHITE EXCEPT AT EDGE LINES TO ONE WAY PAVEMENTS, WHICH SHALL BE AS FOLLOWS:  
RIGHT EDGE - WHITE  
LEFT EDGE - RED
- ALL TRAFFIC SIGNS TO BE SIZE 'B' UNLESS NOTED OTHERWISE.
- FOR GUIDE POST INSTALLATION AND DETAILS, REFER QUEENSLAND TRANSPORT STANDARD DRAWING No.1356
- FOR TRAFFIC SIGN SUPPORT DETAILS, REFER QUEENSLAND TRANSPORT STANDARD DRAWING No.'s 1360 & 1362.
- ALL ROUTE NAMES ON NEW GUIDE SIGNS TO BE BLACK LETTERING ON WHITE BACKGROUND U.N.O.
- ALL SIGN MATERIAL TO BE CLASS 1.
- DIRECTION SIGNS ARE SHOWN INDICATIVE ONLY. DETAILED DESIGNS ARE TO BE USED FOR ORDERING.
- ALL SIGNAGE, LINEMARKING & RRPMs ARE TO BE PREPARED IN ACCORDANCE WITH THE CURRENT QUEENSLAND TRANSPORT 'MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES' (M.U.T.C.D.).

**CONCRETE**

- COMPLY WITH AS3600 CONCRETE STRUCTURES.
- DESIGN AND CONSTRUCT FORMWORK IN ACCORDANCE WITH AS3610.
- PROVIDE QUALITY OF FINISHES OF FORMED SURFACES IN ACCORDANCE WITH AS3610 AND AS FOLLOWS UNO ON DRAWINGS:
  - EXPOSED SURFACES - CLASS 3
  - CONCEALED SURFACES - CLASS 4
  - IN CONTACT WITH GROUND - CLASS 5
- THE LISTED SIZE OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES. PROVIDE CHAMFERS, FILLETS REGLETS AND DRIP GROOVES AS SHOWN ON THE STRUCTURAL DRAWINGS.
- DO NOT MAKE ANY PENETRATIONS OR CHASES OR EMBED ANY ITEMS OTHER THAN THOSE SHOWN IN THE STRUCTURAL DRAWINGS WITHOUT APPROVAL OF THE ENGINEER.
- FORM CONSTRUCTION JOINTS ONLY WHERE APPROVED BY THE ENGINEER.
- REINFORCEMENT SYMBOLS
  - "S" DENOTES GRADE 250S HOT ROLLED DEFORMED BAR TO AS1302.
  - "Y" DENOTES GRADE 400Y HOT ROLLED DEFORMED BAR TO AS1302.
  - "R" DENOTES GRADE 250R HOT ROLLED PLAIN BAR TO AS1303.
  - "W" DENOTES HARD-DRAWN PLAIN WIRE TO AS1303.
  - "RF" & "L" DENOTES HARD-DRAWN RIBBED WIRE FABRIC TO AS1304.
  - "N" DENOTES GRADE 500N HOT ROLLED DEFORMED BAR TO AS1302.
- THE NUMBER FOLLOWING THE BAR SYMBOL IS THE BAR DIAMETER IN mm.  
PROVIDE COVER TO REINFORCEMENT AS FOLLOWS:
 

ELEMENT	COVER
PAVEMENTS	40mm TOP
CONCRETE IN CONTACT WITH GROUND	65mm
- SUPPORT REINFORCEMENT IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED BAR CHAIRS, SPACERS OR SUPPORT BARS SUITABLE FOR THE EXPOSURE CONDITIONS.
- LAP BAR REINFORCEMENT AS FOLLOWS UNO ON DRAWINGS:
 

N12	550mm	N28	1300mm
N16	750mm	N32	1500mm
N20	950mm	N36	1700mm
N24	1100mm	N42	1900mm
- BAR WITH MORE THAN 300mm OF CONCRETE UNDER THEM SHALL HAVE LAPS 1.25 TIMES THESE LENGTHS.
- LAP MESH REINFORCEMENT BY ONE COMPLETE MESH.
- DO NOT WELD OR SITE BEND REINFORCEMENT UNLESS SHOWN IN THE DRAWINGS OR OTHERWISE SPECIFIED BY THE ENGINEER.
- REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
- PROVIDE PREMIX CONCRETE FOR EACH ELEMENT AS FOLLOWS:
 

ELEMENT	GRADE/MAX AG	SLUMP
PAVEMENTS	N32	20mm
MASS CONCRETE	N20	20mm
- SAMPLE TEST AND ASSESS CONCRETE COMPLIANCE IN ACCORDANCE WITH PROJECT ASSESSMENT OF STRENGTH GRADE TO SECTION 20 AS3600.
- THE CONCRETE SHALL BE COMPACTED USING HIGH FREQUENCY VIBRATORS.
- ALL SLABS SHALL BE PLACED AT THE SAME TIME AS BEAMS OF WHICH THEY FORM PART.
- TRIM ALL PENETRATIONS LESS THAN 300mm WITH 2-N16 BARS EACH SIDE, EACH FACE AND DISPLACE REINFORCEMENT EACH SIDE.
- CURING OF ALL CONCRETE SURFACES SHALL COMMENCE IMMEDIATELY AFTER SURFACES ARE FINISHED AS SPECIFIED AND SHALL CONTINUE FOR A MINIMUM OF 7 DAYS.
- ADMIXTURES SHALL NOT BE USED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
- CEMENT SHALL BE TYPE A NORMAL CLASS PORTLAND CEMENT UNLESS NOTED OTHERWISE.
- MAXIMUM 56 DAY SHRINKAGE STRAIN TO BE 65 MICRONS WHEN TESTED IN ACCORDANCE WITH AS1012.
- MAXIMUM FLYASH CONTENT TO BE 10% MEASURED BY WEIGHT OF CEMENTITIOUS MATERIAL.

**STAGE 16B**

1. I state that the works described on this drawing have been constructed under my supervision, and I or my authorised representatives have inspected the works at all stages of construction.

2. I certify that the works have been constructed to my satisfaction and in accordance with the development approval, the approved drawings, the Logan Planning Scheme 2015 / Beaudesert Shire Planning Scheme 2007 and any relevant planning scheme policies and standard specifications.

3. I certify the approved drawings have been carefully compared with the works site as to line, levels and dimensions, and this drawing has been accurately amended in all respects as to constitute a true record of the works.

Project Name: Spring Mountain Estate Stage 16B  
Company: PEET PTY LTD  
Consultant: Sedgman Consulting  
RPEQ/CPEng Membership No. 6554  
Application Number: OW/38/2017

Signature: *[Signature]*  
Date: 7.12.17

**LOGAN CITY COUNCIL**  
**APPROVED AS CONSTRUCTED DRAWING**  
This is the approved As Constructed Drawing for  
Development Application  
**OW/38/2017**  
CD Reference Number  
**1098 B**

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SCALE (AT ORIGINAL SHEET SIZE)	ORIGINAL SHEET SIZE	<b>PEET</b>
N/A	A1	PROJECT
AC AS CONSTRUCTED	H.H. 03.11.17	SPRING MOUNTAIN ESTATE
A ORIGINAL ISSUE	M.G. 09.12.16	STAGE 16B
REV	DESCRIPTION	STAGE / PHASE
		AS CONSTRUCTED

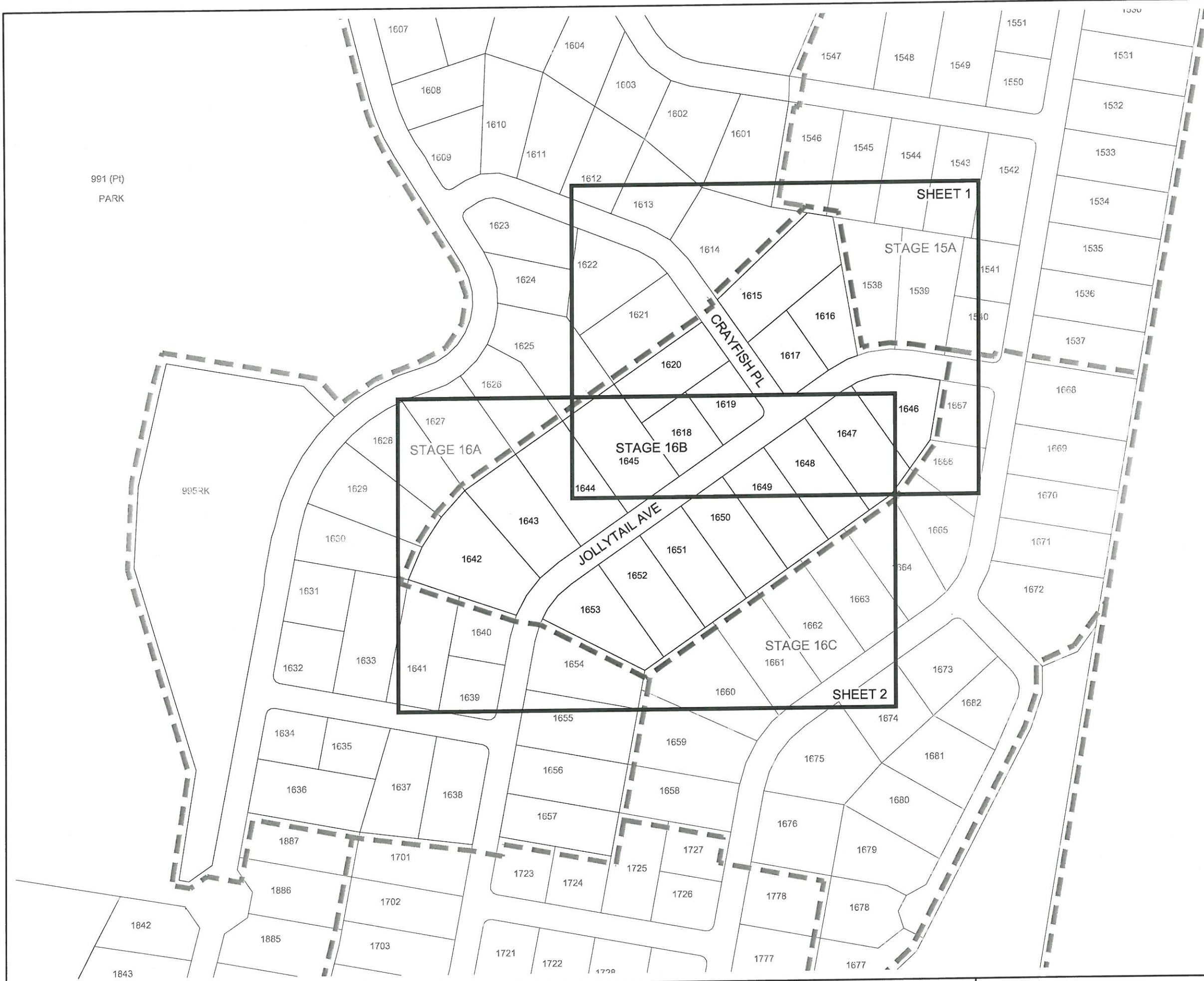
PROJECT	
SPRING MOUNTAIN ESTATE	
STAGE 16B	
STAGE / PHASE	
AS CONSTRUCTED	

**SEDGMAN**

LEVEL 1, 193 FERRY ROAD SOUTHPORT QLD 4215 AUSTRALIA  
T 07 5558 4200 [consult@sedgman.com](mailto:consult@sedgman.com) [www.sedgman.com/sedgman-consulting](http://www.sedgman.com/sedgman-consulting)

TITLE				
GENERAL NOTES				
TASK	BY	INITIAL	DATE	APPROVED
REVIEW	S.S.		19.12.16	RPEQ No
DESIGN	K.E.		09.12.16	DRAWING NUMBER
DRAWN	M.G.		09.12.16	A441-C-16B-001
				REVISION
				AC





**STAGE 16B**

1. I state that the works described on this drawing have been constructed under my supervision, and I or my authorised representatives have inspected the works at all stages of construction.

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Project Name: Spring Mountain Estate Stage 16B  
 Company: PEET PTY LTD  
 Consultant: Sedgman Consulting  
 RPEQ/CPEng Membership No. 6554  
 Application Number: OW/38/2017

Signature: *S.H.A.*  
 Date: 7/12/17

**LOGAN CITY COUNCIL**  
**APPROVED AS CONSTRUCTED DRAWING**  
 This is the approved As Constructed Drawing for  
 Development Application  
 OW/38/2017  
 CD Reference Number  
 1098 B

AC	AS CONSTRUCTED	H.H.	03.11.17
A	ORIGINAL ISSUE	M.G.	09.12.16
REV	DESCRIPTION	DRAWN	DATE

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CLIENT

**PEET**

SCALE (AT ORIGINAL SHEET SIZE)  
 30 15 0 15 30 45 60 1:1500

ORIGINAL SHEET SIZE  
**A1**

PROJECT  
**SPRING MOUNTAIN ESTATE  
 STAGE 16B**

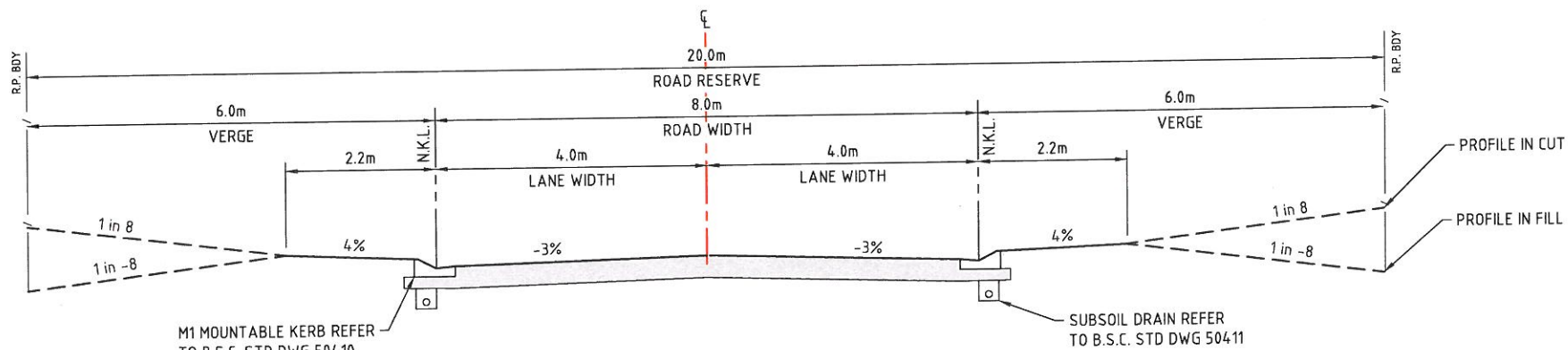
STAGE / PHASE  
**AS CONSTRUCTED**

**SEDGMAN**

LEVEL 1, 193 FERRY ROAD SOUTHPORT QLD 4215 AUSTRALIA  
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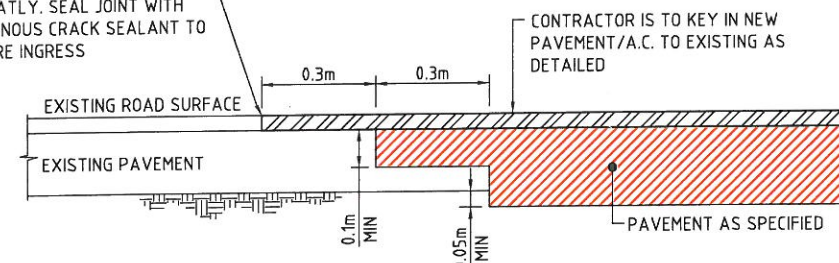
TITLE <b>KEY SHEET PLAN</b>		RPEQ No	
TASK	BY	INITIAL	DATE
REVIEW	S.S.		19.12.16
DESIGN	K.E.		09.12.16
DRAWN	M.G.		09.12.16
DRAWING NUMBER <b>A441-C-16B-0002</b>		REVISION <b>AC</b>	



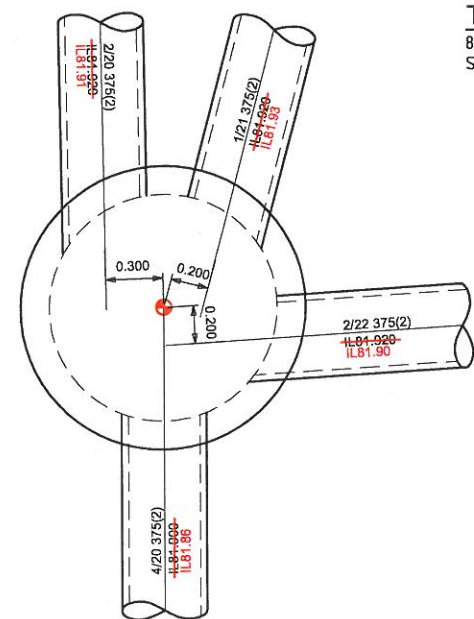


**TYPICAL SECTION (CRAYFISH PL & JOLLYTAIL AVE)**  
8m WIDE RESIDENTIAL ACCESS STREET - TWO WAY CROSSFALL  
SCALE 1:50

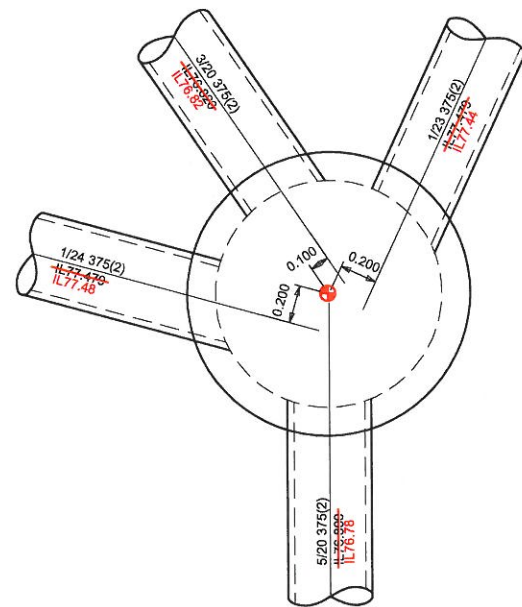
CONTRACTOR IS TO SAW CUT EXISTING A.C. AND MATCH IN NEATLY. SEAL JOINT WITH APPROVED BITUMINOUS CRACK SEALANT TO PREVENT MOISTURE INGRESS



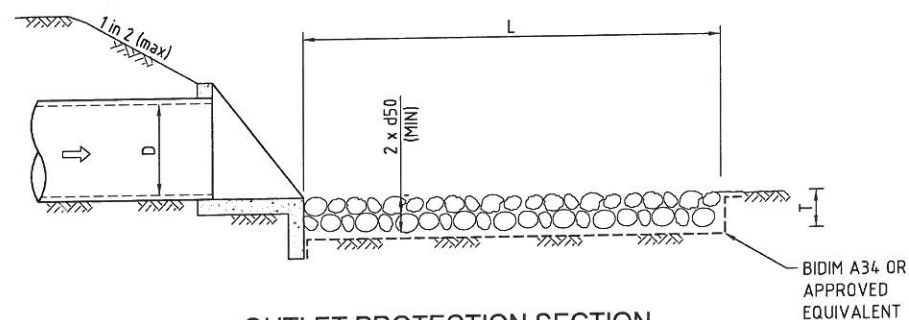
**CONNECTION TO EXISTING PAVEMENT**  
TYPICAL DETAIL  
SHOWING LONGITUDINAL CONSTRUCTION DETAIL FOR CONNECTION TO EXISTING PAVEMENT/A.C.  
N.T.S.



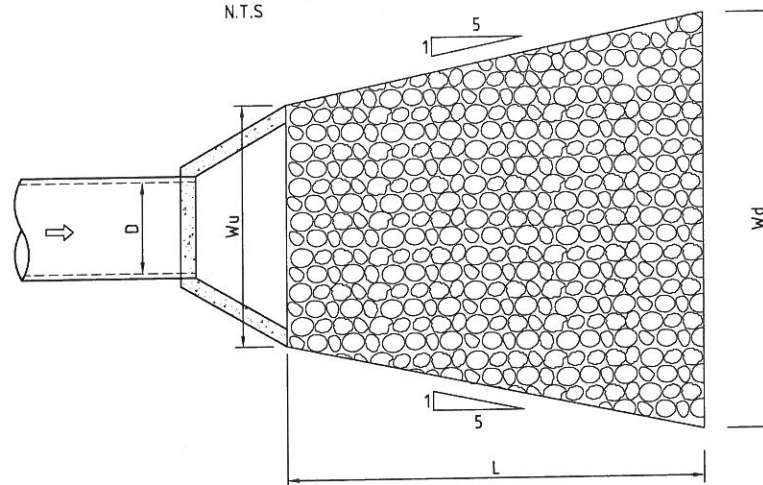
**MANHOLE 3/20 - Ø1200 SL-83.590**  
SCALE 1:20 **SL 83.55**



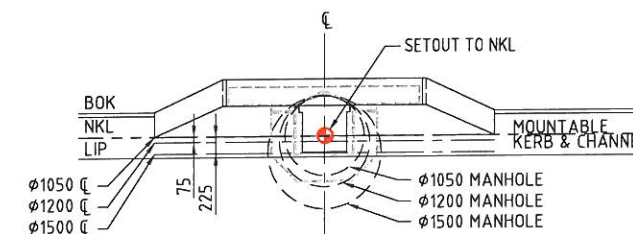
**MANHOLE 4/20 - Ø1200 SL-78.496**  
SCALE 1:20 **SL 78.47**



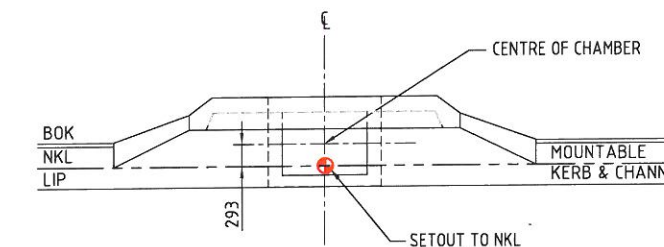
**OUTLET PROTECTION SECTION**  
N.T.S.



**OUTLET PROTECTION PLAN**  
N.T.S.

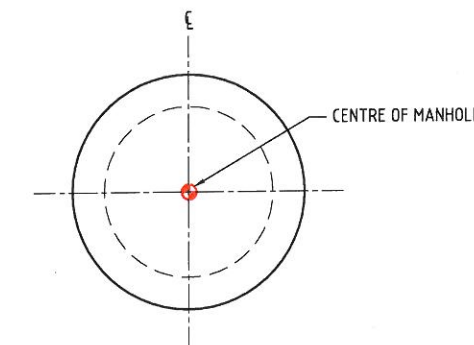


**TYPICAL DETAIL MOUNTABLE KERB & CHANNEL DRAINWAY SIDE INLET GULLY**  
SCALE 1:50



**TYPICAL DETAIL MOUNTABLE KERB & CHANNEL SIDE INLET GULLY (CAST IN-SITU)**  
SCALE 1:50

⊕ DENOTES GIVEN STRUCTURE SETOUT LOCATION



**STD SETOUT DETAIL - MANHOLE**  
N.T.S.

**STAGE 16B**

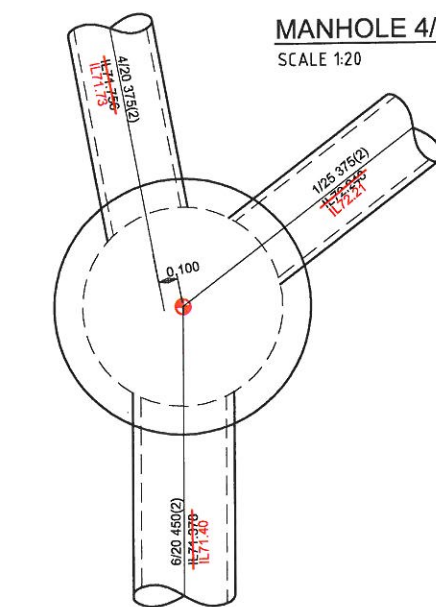
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Project Name: Spring Mountain Estate Stage 16B  
Company: PEET PTY LTD  
Consultant: Sedgman Consulting  
RPEQ/CPEng Membership No. 6554  
Application Number: OW/38/2017

Signature: *[Signature]*  
Date: 7/12/17



**MANHOLE 5/20 - Ø1050 SL-73.789**  
SCALE 1:20 **SL 74.36**

**ROCK GRADATION TABLE**

SMALLEST DIMENSIONS IN (mm)					% OF ROCK SMALLER THAN SIZE SHOWN
200d <sub>50</sub>	300d <sub>50</sub>	400d <sub>50</sub>	500d <sub>50</sub>	600d <sub>50</sub>	
380	525	630	750	850	100
300	450	550	650	750	50-70
200	300	400	500	600	35-50
75	100	130	150	175	2-10

**OUTLET PROTECTION TABLE**

OUTLET No.	PIPE Ø	VELOCITY	LENGTH OF PROTECTION	WIDTH OF PROTECTION		APPX. AREA OF ROCK (m <sup>2</sup> )	NOMINAL ROCK SIZE	THICKNESS OF PROTECTION
	D	V	L	Wu	Wd			
5A/20 (OUTLET)	450	4.97m/s	5.40m	1.66m	3.82m	14.80	0.6m	1.2m

**LOGAN CITY COUNCIL**  
**APPROVED AS CONSTRUCTED DRAWING**  
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Development Application  
OW/38/2017  
CD Reference Number  
1098 B

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SCALE	(AT ORIGINAL SHEET SIZE)	ORIGINAL SHEET SIZE
AS SHOWN		A1

CLIENT  
**PEET**

PROJECT  
**SPRING MOUNTAIN ESTATE STAGE 16B**

STAGE / PHASE  
**AS CONSTRUCTED**

**SEDGMAN**

LEVEL 1, 193 FERRY ROAD SOUTHPORT QLD 4215 AUSTRALIA  
T 07 5558 4200 consult@sedgman.com www.sedgman.com/sedgman-consulting

TITLE <b>TYPICAL DETAILS</b>					
TASK	BY	INITIAL	DATE	APPROVED	RPEQ No
REVIEW	S.S.		19.12.16		
DESIGN	K.E.		09.12.16		
DRAWN	M.G.		09.12.16		
DRAWING NUMBER <b>A441-C-16B-0100</b>				REVISION	<b>AC</b>



**STAGE 16B**

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 Company: PEET PTY LTD  
 Consultant: Sedgman Consulting  
 RPEQ/CPEng Membership No. 6554  
 Application Number: OW/38/2017

Signature: *[Signature]*  
 Date: 7/12/17

**LEGEND**

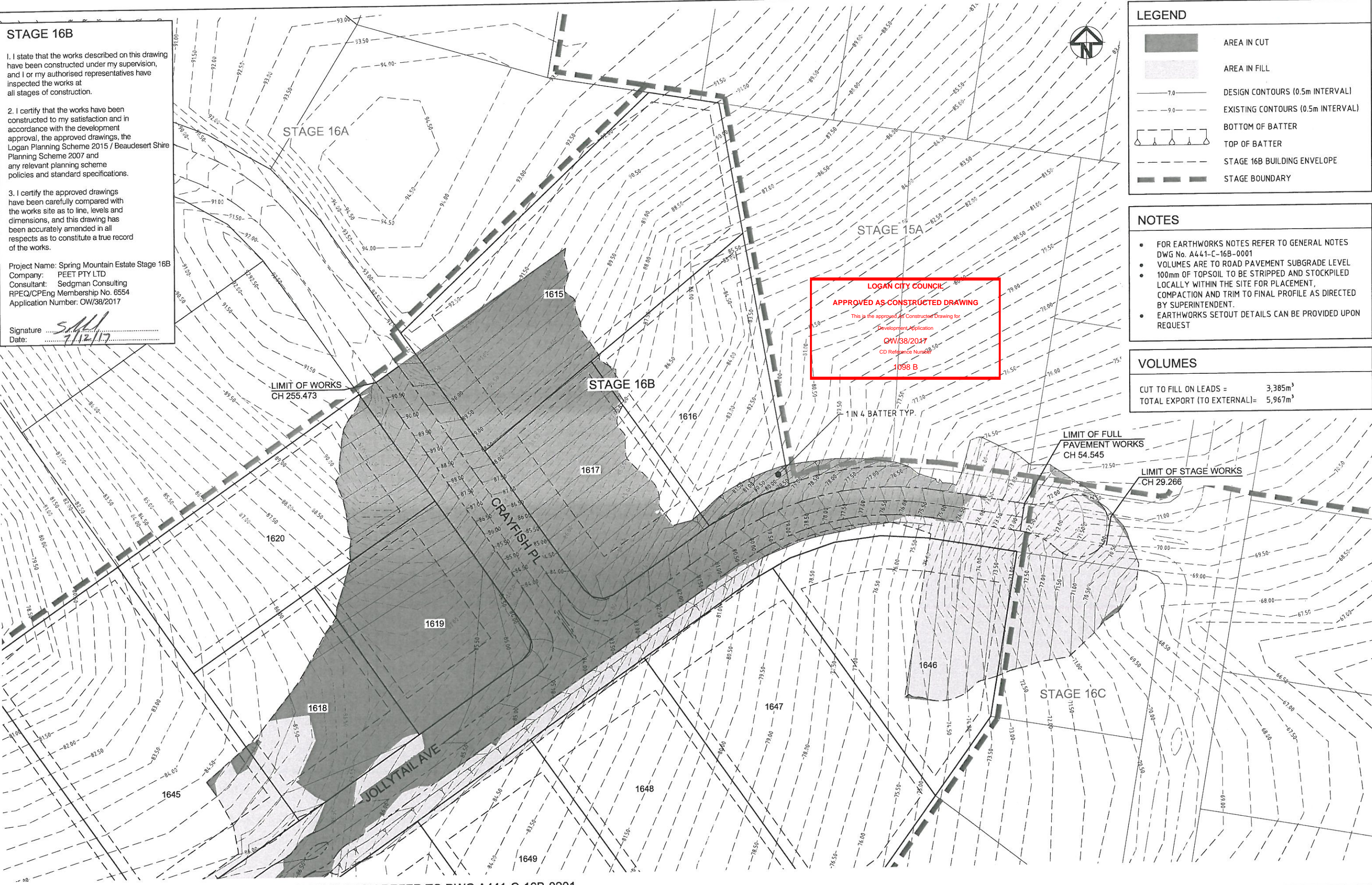
- AREA IN CUT
- AREA IN FILL
- DESIGN CONTOURS (0.5m INTERVAL)
- EXISTING CONTOURS (0.5m INTERVAL)
- BOTTOM OF BATTER
- TOP OF BATTER
- STAGE 16B BUILDING ENVELOPE
- STAGE BOUNDARY

**NOTES**

- FOR EARTHWORKS NOTES REFER TO GENERAL NOTES DWG No. A441-C-16B-0001
- VOLUMES ARE TO ROAD PAVEMENT SUBGRADE LEVEL
- 100mm OF TOPSOIL TO BE STRIPPED AND STOCKPILED LOCALLY WITHIN THE SITE FOR PLACEMENT, COMPACTION AND TRIM TO FINAL PROFILE AS DIRECTED BY SUPERINTENDENT.
- EARTHWORKS SETOUT DETAILS CAN BE PROVIDED UPON REQUEST

**VOLUMES**

CUT TO FILL ON LEADS = 3,385m<sup>3</sup>  
 TOTAL EXPORT (TO EXTERNAL)= 5,967m<sup>3</sup>



FOR CONTINUATION REFER TO DWG A441-C-16B-0201

REV	DESCRIPTION	DRAWN	DATE
AC	AS CONSTRUCTED	H.H.	03.11.17
B	UPDATED EXISTING SURVEY	G.S.	23.05.17
A	ORIGINAL ISSUE	M.G.	09.12.16

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SCALE (AT ORIGINAL SHEET SIZE)  
 SCALE 10 0 10 20 1:500

ORIGINAL SHEET SIZE  
**A1**

CLIENT

PROJECT  
**SPRING MOUNTAIN ESTATE  
 STAGE 16B**

STAGE / PHASE **AS CONSTRUCTED**

LEVEL 1, 193 FERRY ROAD SOUTHPORT QLD 4215 AUSTRALIA  
 T 07 5558 4200 consult@sedgman.com www.sedgman.com/sedgman-consulting

TITLE  
**BULK EARTHWORKS PLAN  
 SHEET 1 OF 2**

TASK	BY	INITIAL	DATE	APPROVED	RPEQ No
DESIGN	K.E.		09.12.16		
DRAWN	M.G.		09.12.16		

DRAWING NUMBER	REVISION
A441-C-16B-0200	AC





**STAGE 16B**

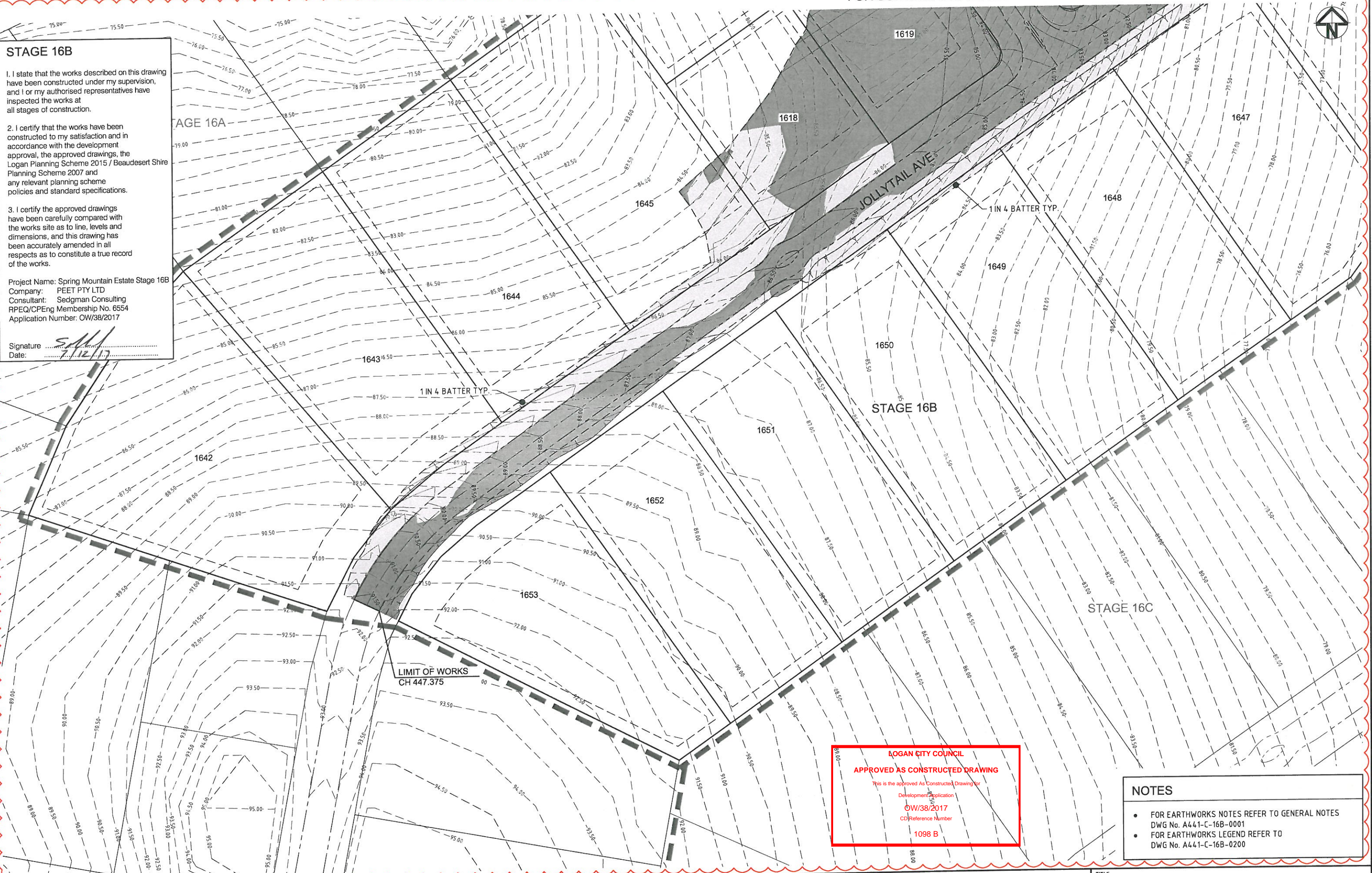
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Project Name: Spring Mountain Estate Stage 16B  
 Company: PEET PTY LTD  
 Consultant: Sedgman Consulting  
 RPEQ/CPEng Membership No. 6554  
 Application Number: OW/38/2017

Signature: *[Signature]*  
 Date: 7.12.17



**LOGAN CITY COUNCIL**  
 APPROVED AS CONSTRUCTED DRAWING  
 This is the approved As Constructed Drawing for  
 Development Application  
 OW/38/2017  
 CD Reference Number  
 1098 B

- NOTES**
- FOR EARTHWORKS NOTES REFER TO GENERAL NOTES DWG No. A441-C-16B-0001
  - FOR EARTHWORKS LEGEND REFER TO DWG No. A441-C-16B-0200

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CLIENT  
**PEET**  
 ORIGINAL SHEET SIZE  
**A1**

PROJECT  
**SPRING MOUNTAIN ESTATE  
 STAGE 16B**  
 STAGE / PHASE **AS CONSTRUCTED**

**SEDGMAN**  
 LEVEL 1, 193 FERRY ROAD SOUTHPORT QLD 4215 AUSTRALIA  
 T 07 5558 4200 consult@sedgman.com www.sedgman.com/sedgman-consulting

TITLE					
<b>BULK EARTHWORKS PLAN</b>					
<b>SHEET 2 OF 2</b>					
TASK	BY	INITIAL	DATE	APPROVED	RPEQ No
REVIEW	S.S.		19.12.16		
DESIGN	K.E.		09.12.16		
DRAWN	M.G.		09.12.16		
DRAWING NUMBER				<b>A441-C-16B-0201</b>	REVISION
					<b>AC</b>

REV	DESCRIPTION	DRAWN	DATE
AC	AS CONSTRUCTED	H.H.	03.11.17
B	UPDATED EXISTING SURVEY	G.S.	23.05.17
A	ORIGINAL ISSUE	M.G.	09.12.16



**STAGE 16B**

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 Consultant: Sedgman Consulting  
 RPEQ/CPEng Membership No. 6554  
 Application Number: OW/38/2017

Signature: *[Signature]*  
 Date: 7/12/17

**LEGEND**

- 5.0 DESIGN CONTOURS (0.5m INTERVAL)
- 5.0 EXISTING CONTOURS (0.5m INTERVAL)
- STORMWATER PIPE
- SILT FENCE
- GULLY PIT SEDIMENT BARRIER
- SAND BAG CHECK DAM
- VEHICLE SHAKEDOWN
- DIRECTION OF OVERLAND FLOW
- 1m WIDE TURF BEHIND KERB
- AREAS TOPSOILED & SEEDED

**NOTES**

FOR EROSION & SEDIMENT CONTROL NOTES & DETAILS REFER TO DWG. No. A441-C-16B-0204

**CONCEPT ONLY**

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ADEQUATE SEDIMENT & EROSION CONTROL DURING ALL PHASES OF CONSTRUCTION TO THE SATISFACTION OF BOTH THE SUPERINTENDENT AND COUNCIL.

**LOGAN CITY COUNCIL**  
**APPROVED AS CONSTRUCTED DRAWING**  
 This is the approved As Constructed Drawing for  
 Development Application  
 OW/38/2017  
 CD Reference Number  
 1098-B



FOR CONTINUATION REFER TO DWG A441-C-16B-0203

REV	DESCRIPTION	DRAWN	DATE
AC	AS CONSTRUCTED	H.H.	03.11.17
B	UPDATED EXISTING SURVEY	G.S.	23.05.17
A	ORIGINAL ISSUE	M.G.	09.12.16

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SCALE (AT ORIGINAL SHEET SIZE)  
 SCALE 10 0 10 20 1:500

ORIGINAL SHEET SIZE  
**A1**

CLIENT

**PEET**

PROJECT  
**SPRING MOUNTAIN ESTATE  
 STAGE 16B**

STAGE / PHASE  
**AS CONSTRUCTED**

**SEDGMAN**

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TITLE  
**EROSION & SEDIMENT CONTROL PLAN  
 SHEET 1 OF 2**

TASK	BY	INITIAL	DATE	APPROVED	RPEQ No
REVIEW	S.S.		19.12.16		
DESIGN	K.E.		09.12.16		
DRAWN	M.G.		09.12.16		

DRAWING NUMBER: **A441-C-16B-0202**

REVISION: **AC**





**STAGE 16B**

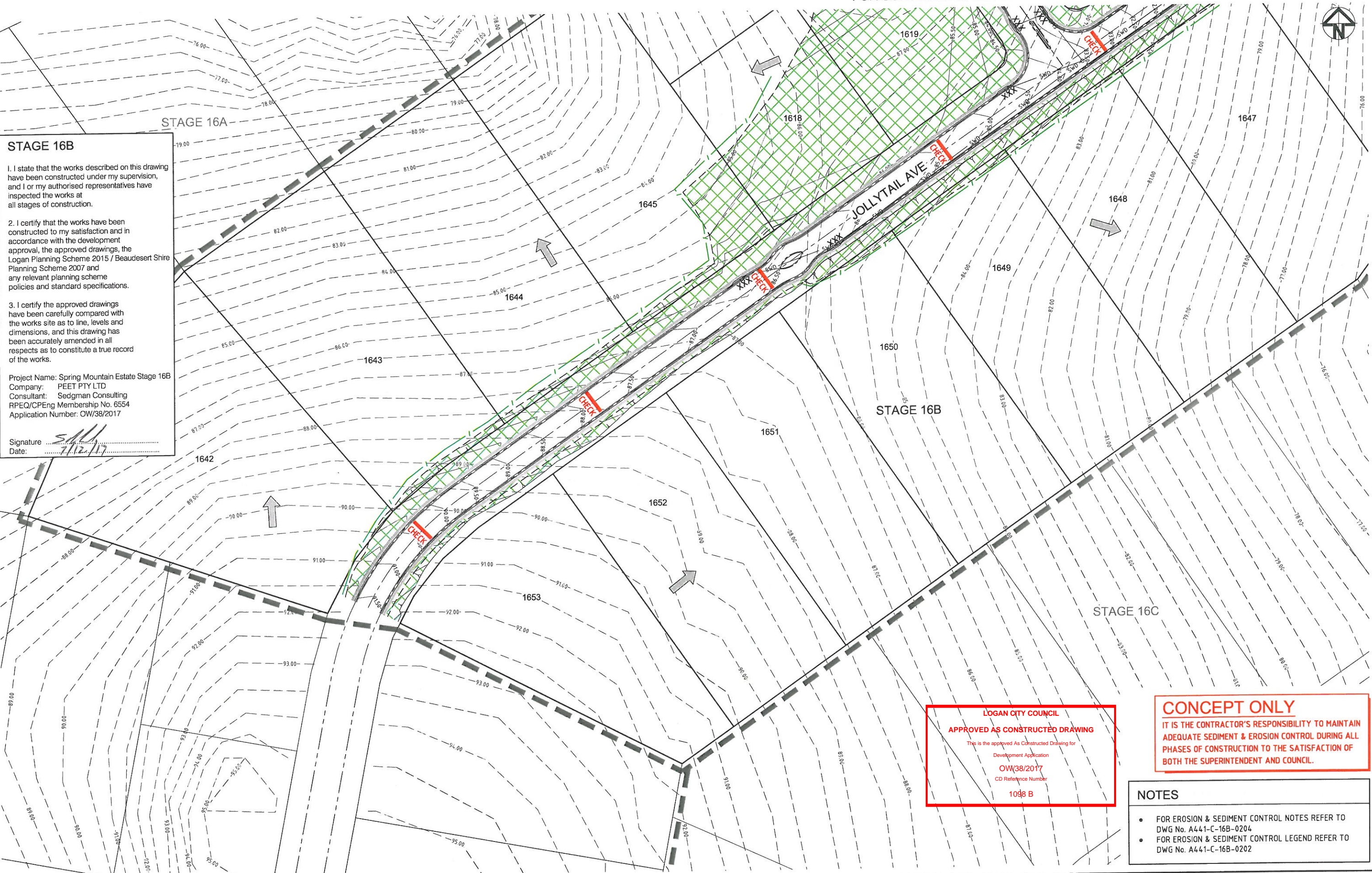
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Project Name: Spring Mountain Estate Stage 16B  
 Company: PEET PTY LTD  
 Consultant: Sedgman Consulting  
 RPEQ/CPEng Membership No. 6554  
 Application Number: OW/38/2017

Signature: *[Signature]*  
 Date: 12/12/17



LOGAN CITY COUNCIL  
**APPROVED AS CONSTRUCTED DRAWING**  
 This is the approved As Constructed Drawing for  
 Development Application  
 OW/38/2017  
 CD Reference Number  
 1098 B

**CONCEPT ONLY**  
 IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN  
 ADEQUATE SEDIMENT & EROSION CONTROL DURING ALL  
 PHASES OF CONSTRUCTION TO THE SATISFACTION OF  
 BOTH THE SUPERINTENDENT AND COUNCIL.

- NOTES**
- FOR EROSION & SEDIMENT CONTROL NOTES REFER TO DWG No. A441-C-16B-0204
  - FOR EROSION & SEDIMENT CONTROL LEGEND REFER TO DWG No. A441-C-16B-0202

REV	DESCRIPTION	DRAWN	DATE
AC	AS CONSTRUCTED	H.H.	03.11.17
B	UPDATED EXISTING SURVEY	G.S.	23.05.17
A	ORIGINAL ISSUE	M.G.	09.12.16

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SCALE (AT ORIGINAL SHEET SIZE)  
 SCALE 10 0 10 20 1:500

ORIGINAL SHEET SIZE  
**A1**

CLIENT  
**PEET**

PROJECT  
**SPRING MOUNTAIN ESTATE  
 STAGE 16B**

STAGE / PHASE **AS CONSTRUCTED**

**SEDGMAN**

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TITLE  
**EROSION & SEDIMENT CONTROL PLAN  
 SHEET 2 OF 2**

TASK	BY	INITIAL	DATE	APPROVED	RPEQ No
REVIEW	S.S.		19.12.16		
DESIGN	K.E.		09.12.16		
DRAWN	M.G.		09.12.16		

DRAWING NUMBER **A441-C-16B-0203** REVISION **AC**



# SILT MANAGEMENT PROGRAM

PHASE	DESCRIPTION
ALL WORKS	SILT FENCES TO BE ERECTED ALONG TOE OF FILL BATTERS OR AS DIRECTED BY SUPERINTENDENT.
SEWER/WATER STORMWATER/SERVICES,	EXCAVATED MATERIAL TO BE PLACED ON HIGH SIDE OF TRENCH IN ORDER TO PROTECT PIPE WORK AND DIRECT SURFACE FLOW AWAY FROM EXCAVATIONS.
ROADWORKS	MEASURES ARE TO BE TAKEN TO PREVENT SILT INGRESS TO STORMWATER SYSTEM.
MAINTENANCE PERIOD	EROSION CONTROL MEASURES ARE TO BE INSPECTED AFTER MAJOR EVENTS (> 25mm). ANY REPAIRS REQUIRED ARE TO BE EFFECTED IMMEDIATELY.

## GENERAL NOTES

- THE CONTRACTOR IS TO TAKE ALL NECESSARY PRECAUTIONS TO CONTROL EROSION AND DOWNSTREAM SEDIMENTATION DURING ALL STAGES OF CONSTRUCTION INCLUDING THE MAINTENANCE PERIOD.
- ALL SEDIMENT CONTROL DEVICES SHALL BE MONITORED, CLEANED AND/OR REPAIRED WHENEVER THE ACCUMULATED SEDIMENT REDUCES THE CAPACITY BY 50%.
- ALL PERIMETER BANK/SWALE SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
- THE EXTENT OF GRASSING SHALL BE DETERMINED BY THE SUPERINTENDENT AND SHALL BE SEEDED, AS SPECIFIED, WITHIN SEVEN DAYS OF FINAL TRIMMING.
- EXTENT AND POSITION OF SILT FENCE CONTROL MEASURES TO BE DETERMINED ON SITE BY SUPERINTENDENT. MEASURES SHOWN ON THIS DRAWING ARE MINIMUM REQUIREMENTS ONLY.
- SCOUR PROTECTION AND SILT MANAGEMENT MEASURES TO BE PROVIDED AT STORMWATER OUTLET HEADWALLS.
- PROVISION TO BE MADE FOR DIRT/SAND REMOVAL FROM CONSTRUCTION VEHICLES PRIOR TO TRAVEL ON PUBLIC ROADS. METHOD TO BE APPROVED BY SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORK.
- ANY SILT OR SEDIMENT CAUSED BY THE MOVEMENT OF CONSTRUCTION TRAFFIC ON EXISTING ROADS IS TO BE REMOVED DAILY.
- THE APPLICANT SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL PROCEDURES DURING CONSTRUCTION AND MAINTENANCE STAGES OF THE DEVELOPMENT AND SHALL TAKE ALL NECESSARY ACTIONS TO COMPLY WITH THE POLICY OBJECTIVES OF THE BEAUDESERT SHIRE COUNCIL PLANNING SCHEME.
- THE CONTRACTOR IS TO BE RESPONSIBLE FOR THE DAILY REMOVAL OF SILT FOR THE DURATION OF THE CONSTRUCTION AND MAINTENANCE PERIOD, THAT HAS BEEN BLOWN, WASHED OR TRACKED FROM THE SITE ONTO COUNCIL ROADS OR INTO COUNCIL DRAINAGE SYSTEMS, WATERCOURSES AND ANY PRIVATE PROPERTY.
- THE CONTRACTOR IS TO BE RESPONSIBLE FOR THE CONTROL OF DUST EMANATING FROM THE SITE AT ALL TIMES, INCLUDING ON WEEKENDS AND PUBLIC HOLIDAYS, FOR THE DURATION OF THE CONSTRUCTION AND MAINTENANCE PERIOD.
- ALL RUBBISH, WASTE MATERIALS, OILS AND FUELS ARE TO BE CONTAINED APPROPRIATELY. OIL AND FUEL SPILLS ARE NOT TO ENTER ANY DRAINAGE SYSTEM OR WATERCOURSE.
- THE CONTRACTOR IS TO ENSURE THAT NO SILT REACHES THE DOWNSTREAM WATER COURSE AND IS TO PROVIDE ADEQUATE PROTECTION TO PREVENT THIS OCCURRING.
- WHERE TOPSOIL STOCKPILES ARE TO REMAIN IN PLACE FOR A PERIOD OF MORE THAN 14 DAYS WITH A SUITABLE QUICK STRIKING CEREAL GRASS. THE UPHILL SIDE AND A SEDIMENT FENCE ON THE

### STAGE 16B

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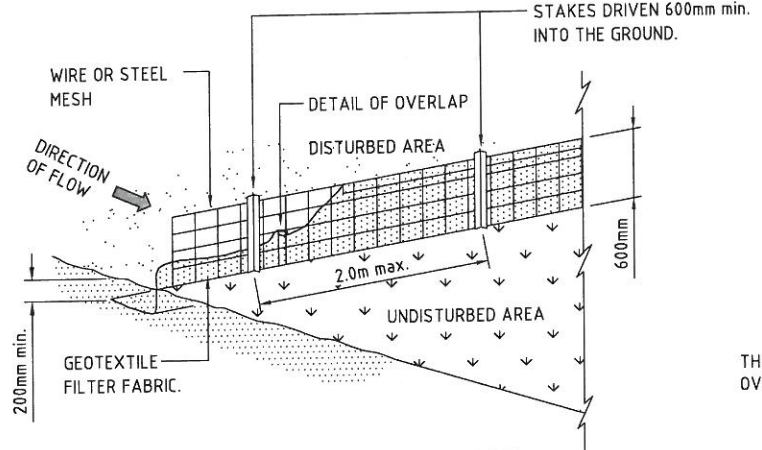
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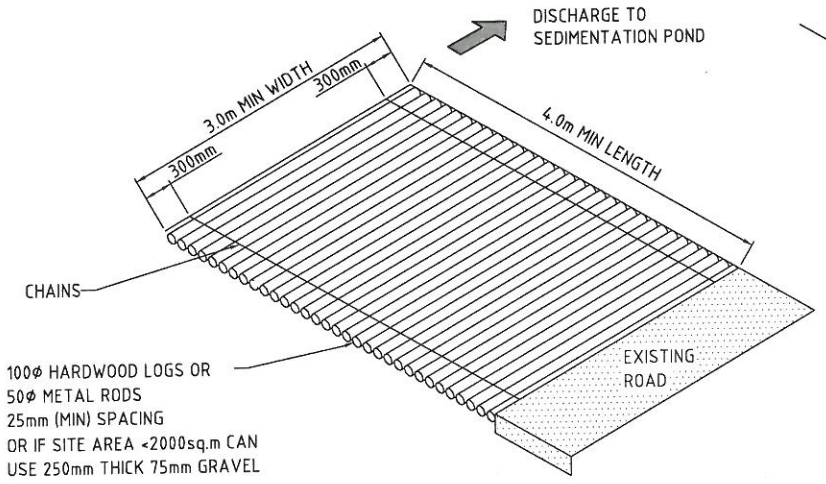
Project Name: Spring Mountain Estate Stage 16B  
 Company: PEET PTY LTD  
 Consultant: Sedgman Consulting  
 RPEQ/CPEng Membership No. 6554  
 Application Number: OW/38/2017

Signature: *[Signature]*  
 Date: 7/12/17

DRAINAGE AREA 0.6ha. MAX. SLOPE GRADIENT 1 : 2 MAX.  
 SLOPE LENGTH 60m MAX.

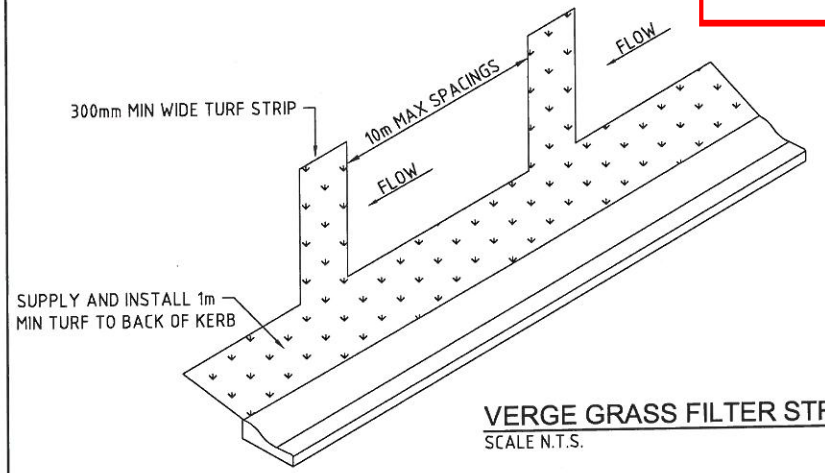


**GEOTEXTILE SEDIMENT FENCE**  
 SCALE N.T.S.

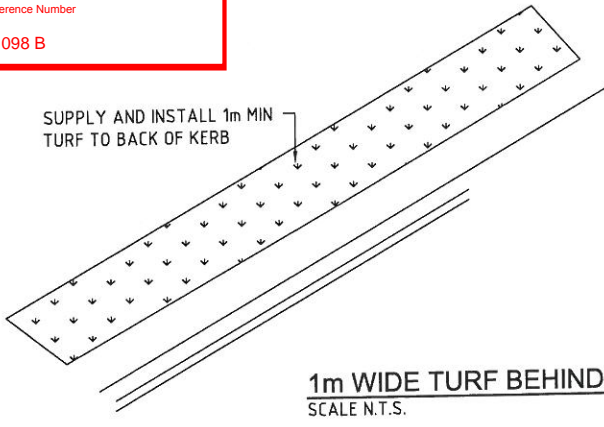


**METAL GRID SHAKE DOWN (OR APPROVED EQUIVALENT)**  
 SCALE N.T.S.

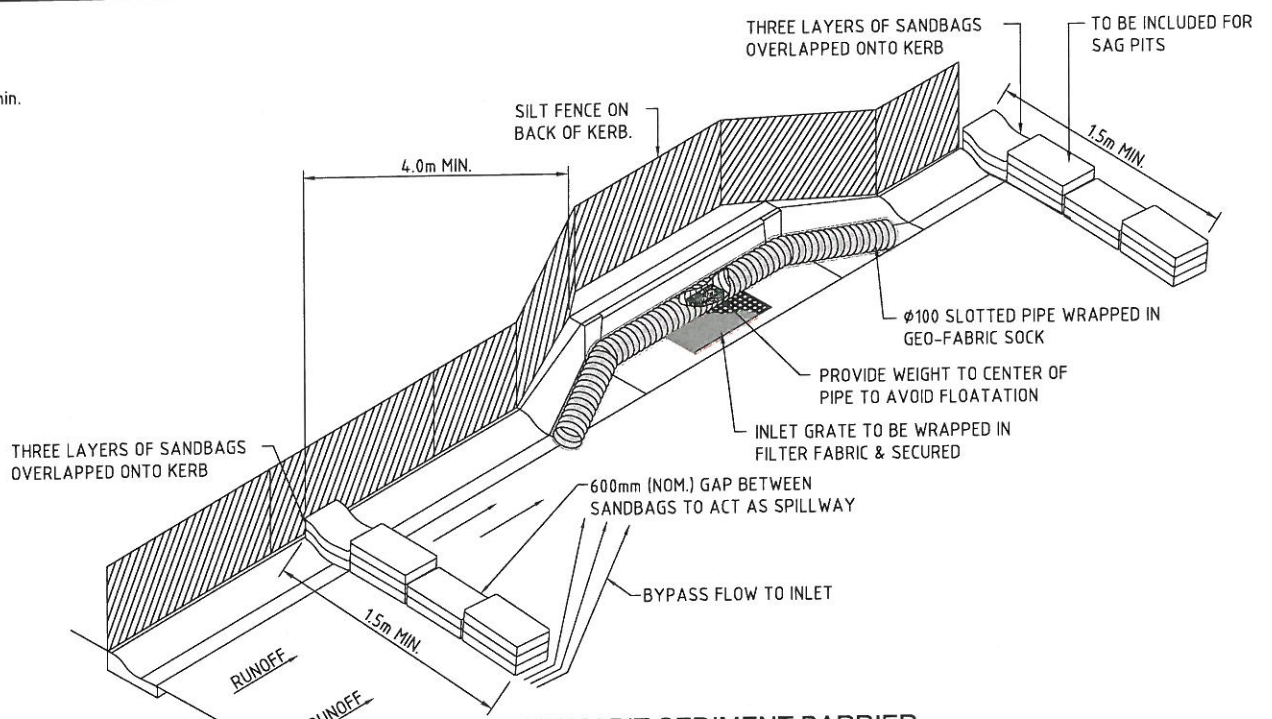
**LOGAN CITY COUNCIL**  
**APPROVED AS CONSTRUCTED DRAWING**  
 This is the approved As Constructed Drawing for  
 Development Application  
**OW/38/2017**  
 CD Reference Number  
**1098 B**



**VERGE GRASS FILTER STRIPS**  
 SCALE N.T.S.

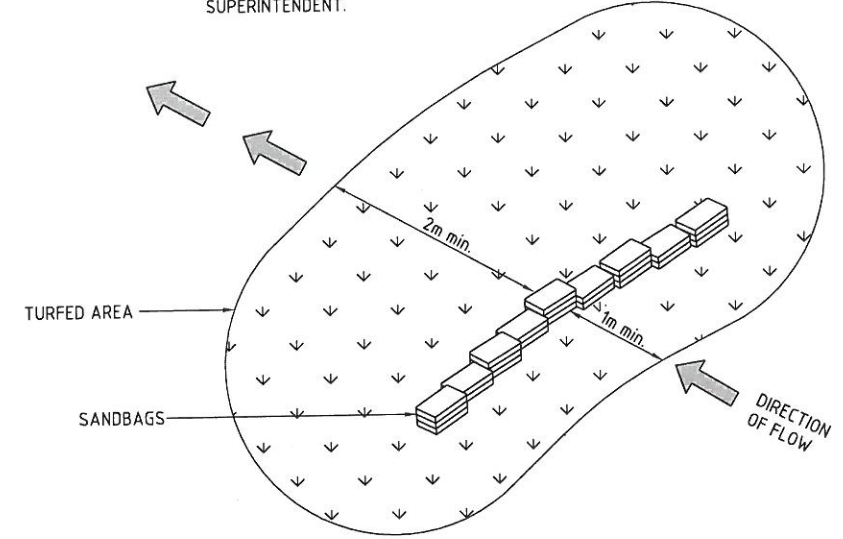


**1m WIDE TURF BEHIND KERB**  
 SCALE N.T.S.



**GULLY PIT SEDIMENT BARRIER**  
 SCALE N.T.S.

PROVIDE SAND BAGS ACROSS FLOW PATH. PROVIDE TURF AROUND SAND BAGS, TO A MINIMUM OF 1m IN FRONT AND 2m BEHIND. EXTENT TO BE DETERMINED ON SITE BY SUPERINTENDENT.



**SAND BAG CHECK DAM**  
 SCALE N.T.S.

THIS DESIGN AND PLAN IS COPYRIGHT AND IS NOT TO BE USED OR REPRODUCED WHOLLY OR IN PART OR TO BE USED ON ANY PROJECT WITHOUT THE WRITTEN PERMISSION OF SEDGMAN CONSULTING PTY LTD. DRAWING IS NOT TO BE SCALED.

SCALE	(AT ORIGINAL SHEET SIZE)	ORIGINAL SHEET SIZE
	NOT TO SCALE	A1

CLIENT

**PEET**

PROJECT

**SPRING MOUNTAIN ESTATE STAGE 16B**

STAGE / PHASE **AS CONSTRUCTED**

**SEDGMAN**

LEVEL 1, 193 FERRY ROAD SOUTHPORT QLD 4215 AUSTRALIA  
 T 07 5558 4200 consult@sedgman.com www.sedgman.com/sedgman-consulting

TITLE						ROE No	
EROSION & SEDIMENT CONTROL NOTES & DETAILS						DRAWING NUMBER	
TASK	BY	INITIAL	DATE	APPROVED	REVISION		
DESIGN	K.E.		09.12.16				
DRAWN	M.G.		09.12.16				
A441-C-16B-0204						AC	



**STAGE 16B**

1. I state that the works described on this drawing have been constructed under my supervision, and I or my authorised representatives have inspected the works at all stages of construction.

2. I certify that the works have been constructed to my satisfaction and in accordance with the development approval, the approved drawings, the Logan Planning Scheme 2015 / Beaudesert Shire Planning Scheme 2007 and any relevant planning scheme policies and standard specifications.

3. I certify the approved drawings have been carefully compared with the works site as to line, levels and dimensions, and this drawing has been accurately amended in all respects as to constitute a true record of the works.

Project Name: Spring Mountain Estate Stage 16B  
 Company: PEET PTY LTD  
 Consultant: Sedgman Consulting  
 RPEQ/CPEng Membership No. 6554  
 Application Number: OW/38/2017

Signature: *[Signature]*  
 Date: 7/12/17

**LOGAN CITY COUNCIL**  
**APPROVED AS CONSTRUCTED DRAWING**  
 This is the approved As Constructed Drawing for  
 Development Application  
**OW/38/2017**  
 CD Reference Number  
**1098 B**

**LEGEND**

	NOMINAL KERB LINE
	ROAD CENTRE LINE
	STAGE 16B LOT BOUNDARY
	EXISTING NOMINAL KERB LINE
	EXISTING ROAD CENTRE LINE
	EXISTING LOT BOUNDARY
	FUTURE NOMINAL KERB LINE
	FUTURE ROAD CENTRE LINE
	FUTURE LOT BOUNDARY
	STAGE BOUNDARY

**NOTES**

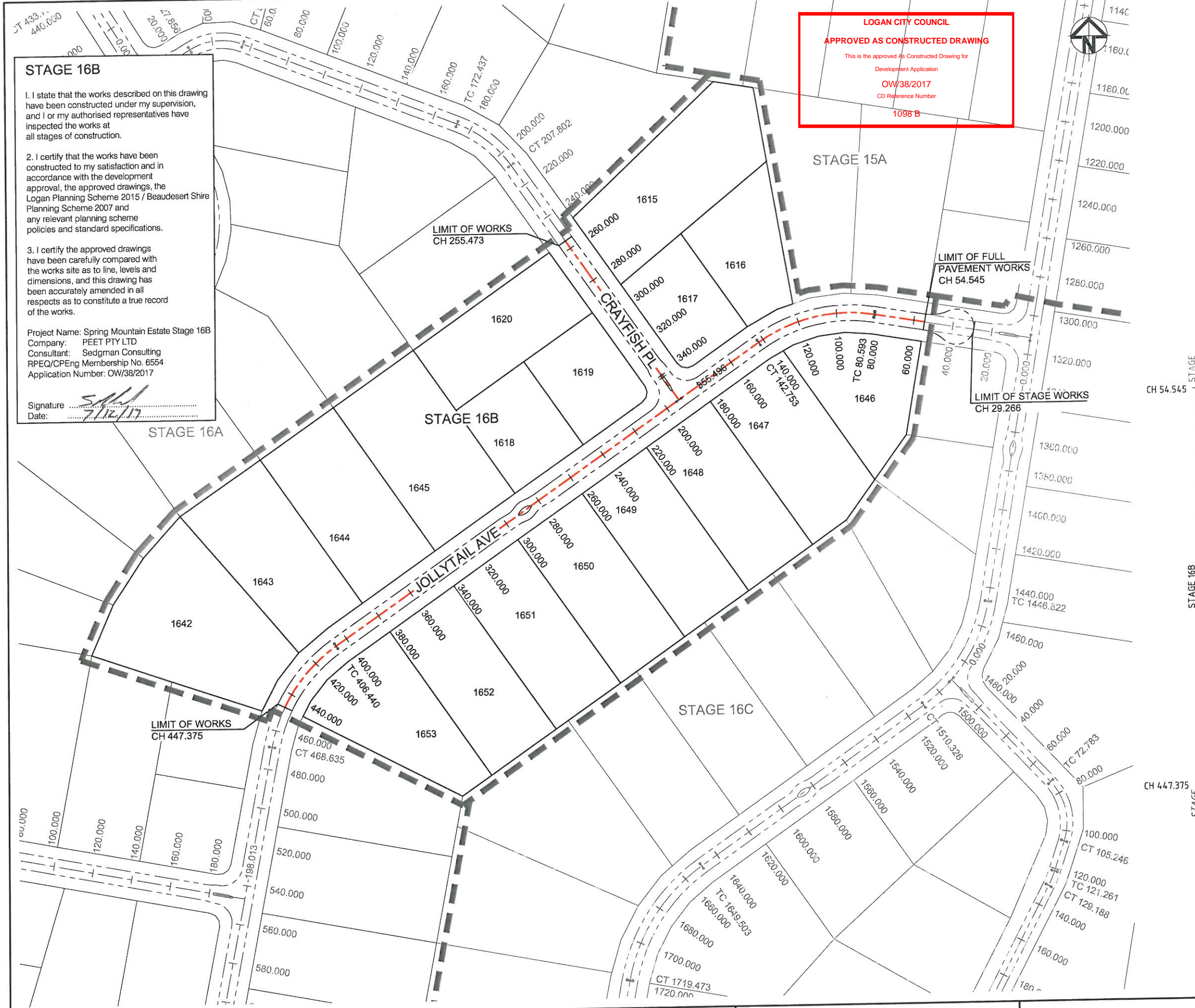
- FOR ROAD ALIGNMENT NOTES REFER TO GENERAL NOTES DWG No. A441-C-16B-0001

**CONTROL LINE "JOLLYTAIL AVE"**

PT	Chainage	Easting	Northing	Level	Bearing	Radius	A.Length	D.Angle
	4.000	492624.184	6930408.498	71.092	279°35'20"			
	54.545	492609.842	6930410.921	72.805	279°35'20"			
	60.000	492604.463	6930411.830	73.386	279°35'20"			
	80.000	492584.742	6930415.161	75.242	279°35'20"			
TC	80.593	492584.158	6930415.260	75.294	279°35'20"			
	100.000	492564.819	6930416.152	76.972	265°42'23"			
IP2	111.673	492551.871	6930420.714	77.982		-80.000	62.160	44°31'07"
	120.000	492545.269	6930412.184	78.702	251°21'57"			
	140.000	492527.309	6930403.503	80.425	237°02'31"			
CT	142.753	492525.026	6930401.966	80.652	235°04'13"			
	160.000	492510.886	6930392.091	81.965	235°04'13"			
	180.000	492494.488	6930380.640	83.253	235°04'13"			
	200.000	492478.091	6930369.188	84.288	235°04'13"			
	220.000	492461.694	6930357.737	85.070	235°04'13"			
	240.000	492445.297	6930346.285	85.599	235°04'13"			
	260.000	492428.900	6930334.834	85.947	235°04'13"			
	280.000	492412.503	6930323.382	86.287	235°04'13"			
	300.000	492396.106	6930311.931	86.627	235°04'13"			
	320.000	492379.709	6930300.480	86.967	235°04'13"			
	340.000	492363.312	6930289.028	87.300	235°04'13"			
	360.000	492346.915	6930277.577	87.937	235°04'13"			
	380.000	492330.518	6930266.125	88.640	235°04'13"			
	400.000	492314.120	6930254.674	89.487	235°04'13"			
TC	406.440	492308.841	6930250.986	89.783	235°04'13"			
	420.000	492298.433	6930242.320	90.407	225°21'31"			
IP3	437.538	492281.978	6930232.226	91.214		-80.000	62.196	44°32'39"
	440.000	492286.098	6930226.643	91.327	211°02'04"			
	447.375	492282.592	6930220.157	91.666	205°45'09"			
	460.000	492278.025	6930208.401	92.240	196°42'38"			

**CONTROL LINE "CRAYFISH PL"**

PT	Chainage	Easting	Northing	Level	Bearing
	240.000	492418.069	6930468.144	91.659	145°04'13"
	255.473	492426.928	6930455.458	90.959	145°04'13"
	260.000	492429.520	6930451.747	90.681	145°04'13"
	280.000	492440.972	6930435.349	89.154	145°04'13"
	300.000	492452.423	6930418.952	87.171	145°04'13"
	320.000	492463.874	6930402.555	84.961	145°04'13"
	340.000	492475.326	6930386.158	83.545	145°04'13"
IP4	355.496	492484.199	6930373.453	83.932	145°04'13"



REV	DESCRIPTION	DRAWN	DATE
AC	AS CONSTRUCTED	H.H.	03.11.17
B	UPDATED EXISTING SURVEY	G.S.	23.05.17
A	ORIGINAL ISSUE	M.G.	09.12.16

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SCALE (AT ORIGINAL SHEET SIZE)  
 SCALE 1:1000

ORIGINAL SHEET SIZE  
**A1**

CLIENT  
**PEET**

PROJECT  
**SPRING MOUNTAIN ESTATE  
 STAGE 16B**

STAGE / PHASE  
**AS CONSTRUCTED**

**SEDGMAN**

LEVEL 1, 193 FERRY ROAD SOUTHPORT QLD 4215 AUSTRALIA  
 T 07 5558 4200 consult@sedgman.com www.sedgman.com/sedgman-consulting

TITLE  
**ROAD ALIGNMENT PLAN & TABLES**

TASK	BY	INITIAL	DATE	APPROVED	RPEQ No
REVIEW	S.S.		19.12.16		
DESIGN	K.E.		09.12.16		
DRAWN	M.G.		09.12.16		

DRAWING NUMBER  
**A441-C-16B-0300**

REVISION  
**AC**



**STAGE 16B**

1. I state that the works described on this drawing have been constructed under my supervision, and I or my authorised representatives have inspected the works at all stages of construction.

2. I certify that the works have been constructed to my satisfaction and in accordance with the development approval, the approved drawings, the Logan Planning Scheme 2015 / Beaudesert Shire Planning Scheme 2007 and any relevant planning scheme policies and standard specifications.

3. I certify the approved drawings have been carefully compared with the works site as to line, levels and dimensions, and this drawing has been accurately amended in all respects as to constitute a true record of the works.

Project Name: Spring Mountain Estate Stage 16B  
 Company: PEET PTY LTD  
 Consultant: Sedgman Consulting  
 RPEQ/CPEng Membership No. 6554  
 Application Number: OW/38/2017

Signature: *[Signature]*  
 Date: 11/12/17

REMOVE EXISTING TEMPORARY CUL-DE-SAC, GUIDE POSTS & SIGNAGE. SAW CUT AND JOIN NEATLY TO EXISTING PAVEMENT. REFER TO DWG A441-C-16B-0100 FOR DETAIL

LIMIT OF WORKS  
 CH 255.473

CREST  
 W5-11A  
 45  
 Km/h  
 W8-2A (45)

CONNECT ROOFWATER DRAINAGE FOR LOT 1619 INTO PIT 1/21

SLOW POINT  
 W5-33  
 25  
 Km/h  
 W8-2A (25)

SOAKAGE TRENCH (TYPICAL). REFER TO A441-C-16B-0302 FOR DETAIL. TO BE LOCATED MIN. 3m FROM LOT BOUNDARIES.

PROVIDE 3m WIDE "TYPE 3" 32 MPA EXPOSED AGGREGATE CONCRETE DRIVEWAY CROSSOVER, TO EXTEND 2m PAST PROPERTY BOUNDARY. REFER TO B.S.C. STD DWG 50413 FOR DETAILS. FINAL LOCATIONS TO BE CONFIRMED ONSITE PRIOR TO CONSTRUCTION.

CONSTRUCT KERB ADAPTORS FOR FUTURE LOTS AS PART OF STAGE 16B WORKS

LIMIT OF FULL PAVEMENT WORKS  
 CH 54.545

LIMIT OF STAGE WORKS  
 CH 29.266

PROVIDE ROCK SCOUR PROTECTION TO TEMPORARY HEADWALL REFER TO DWG No. A441-C-16B-0100 FOR DETAILS

CONSTRUCT 9m RADIUS TEMPORARY CUL-DE-SAC WITH 20m TURNOUTS. PROVIDE PRIME AND 7mm SEAL OVER 150mm CBR45 MATERIAL. PROVIDE 2m WIDE TEMPORARY SWALE TO DIVERT FLOW & 2m<sup>2</sup> OF Ø100 ROCK OVER BIDIM A34 AT KERB ENDS (TYP.)

FULL EXTENT OF SWALE DRAIN TO BE TURF LINED

TYPICAL SECTION  
 TEMPORARY SWALE DRAIN  
 NTS

FOR CONTINUATION REFER TO DWG A441-C-16B-0302

LOGAN CITY COUNCIL  
 APPROVED AS CONSTRUCTED DRAWING  
 This is the approved As Constructed Drawing for  
 Development Application  
 OW/38/2017  
 PD Reference Number  
 1098 B

**LEGEND**

- MOUNTABLE KERB & CHANNEL
- STORMWATER PIPE, MANHOLE & STRUCTURE LABEL.
- DESIGN CONTOURS (0.5m INTERVAL)
- EXISTING CONTOURS (0.5m INTERVAL)
- INDICATIVE KERB ADAPTER LOCATION
- STAGE 16B WATER RETICULATION
- EXISTING STORMWATER
- EXISTING WATER RETICULATION
- STREET NAME SIGN & GIVEWAY SIGN
- STAGE BOUNDARY

**NOTES**

- FOR ROADWORKS NOTES REFER TO GENERAL NOTES DWG No. A441-C-16B-0001
- BUILDING ENVELOPES TO BE FINALISED PRIOR TO PLAN SEALING

REV	DESCRIPTION	DRAWN	DATE
AC	AS CONSTRUCTION	H.H.	03.11.17
C	DRIVEWAYS ADDED	K.E.	06.06.17
B	UPDATED EXISTING SURVEY	G.S.	23.05.17
A	ORIGINAL ISSUE	M.G.	09.12.16

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SCALE (AT ORIGINAL SHEET SIZE)  
 10 0 10 20 1500

ORIGINAL SHEET SIZE  
**A1**

CLIENT

PROJECT  
**SPRING MOUNTAIN ESTATE  
 STAGE 16B**

STAGE / PHASE  
**AS CONSTRUCTED**

LEVEL 1, 193 FERRY ROAD SOUTHPORT QLD 4215 AUSTRALIA  
 T 07 5558 4200 consult@sedgman.com www.sedgman.com/sedgman-consulting

TASK	BY	INITIAL	DATE	APPROVED	RPEQ No
REVIEW	S.S.		19.12.16		
DESIGN	K.E.		09.12.16		
DRAWN	M.G.		09.12.16		

TITLE  
**ROADWORKS & DRAINAGE PLAN  
 SHEET 1 OF 2**

DRAWING NUMBER  
**A441-C-16B-0301**

REVISION  
**AC**



**STAGE 16B**

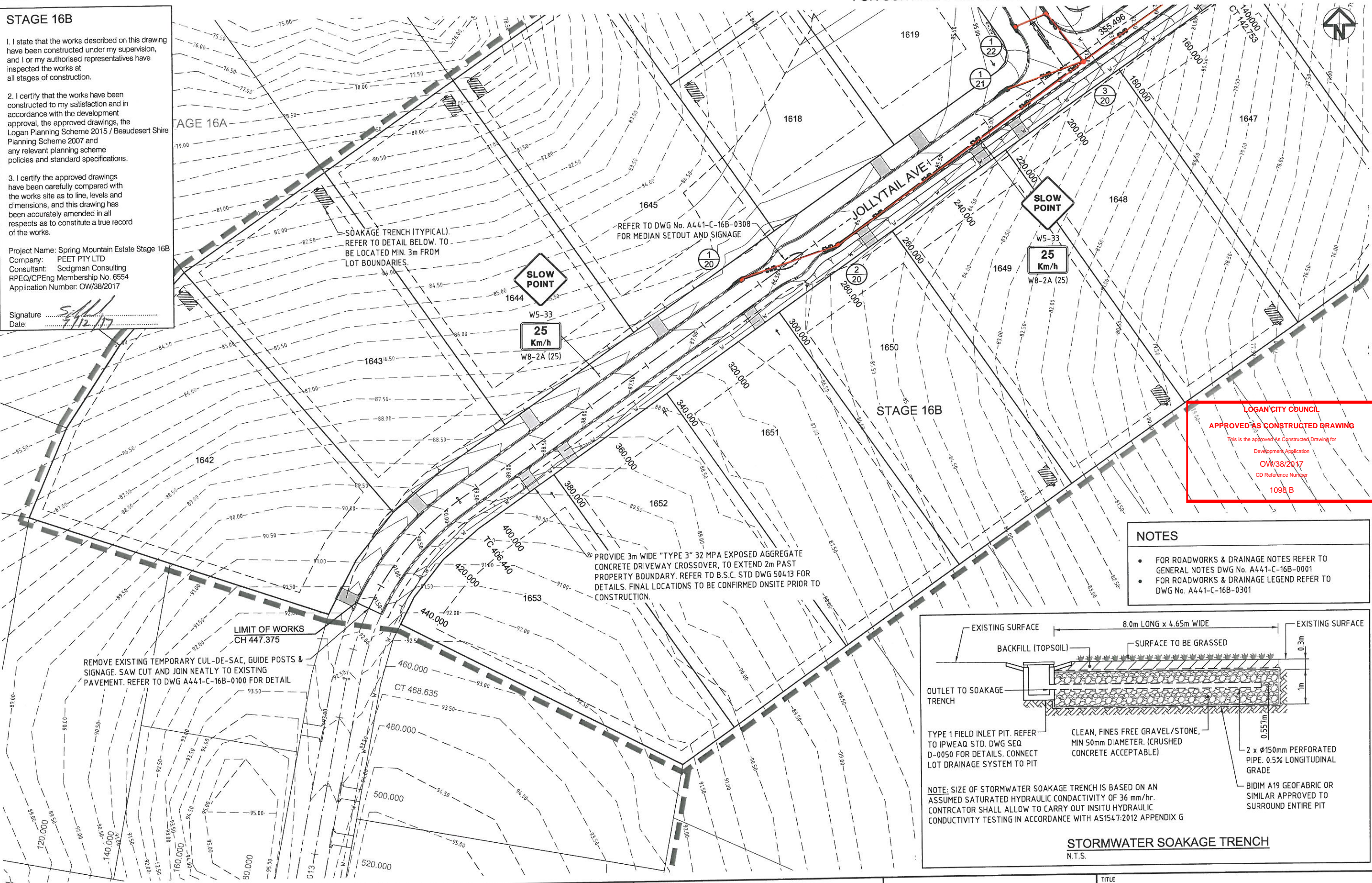
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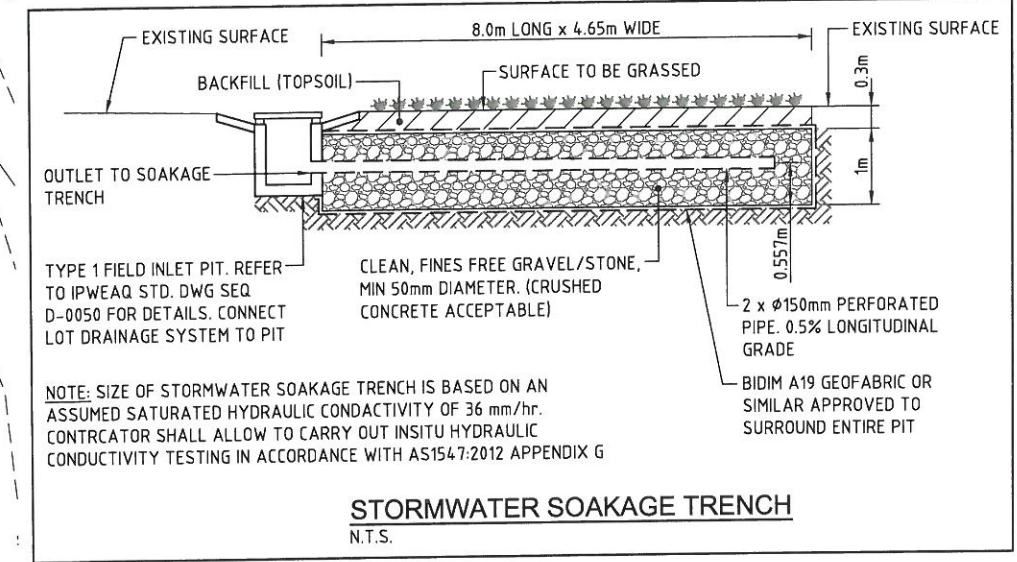
Project Name: Spring Mountain Estate Stage 16B  
 Company: PEET PTY LTD  
 Consultant: Sedgman Consulting  
 RPEQ/CPEng Membership No. 6554  
 Application Number: OW/38/2017

Signature: *S. Hill*  
 Date: 2/12/17



**LOGAN CITY COUNCIL**  
**APPROVED AS CONSTRUCTED DRAWING**  
 This is the approved As Constructed Drawing for  
 Development Application  
**OW/38/2017**  
 CD Reference Number  
**1098 B**

- NOTES**
- FOR ROADWORKS & DRAINAGE NOTES REFER TO GENERAL NOTES DWG No. A441-C-16B-0001
  - FOR ROADWORKS & DRAINAGE LEGEND REFER TO DWG No. A441-C-16B-0301



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REV	DESCRIPTION	DRAWN	DATE
AC	AS CONSTRUCTED	H.H.	03.11.17
C	DRIVEWAYS ADDED	K.E.	06.06.17
B	UPDATED EXISTING SURVEY	G.S.	23.05.17
A	ORIGINAL ISSUE	M.G.	09.12.16

SCALE (AT ORIGINAL SHEET SIZE)  
 SCALE 10 0 10 20 1500

ORIGINAL SHEET SIZE  
**A1**

CLIENT  
**PEET**

PROJECT  
**SPRING MOUNTAIN ESTATE  
 STAGE 16B**

STAGE / PHASE  
**AS CONSTRUCTED**

**SEDGMAN**

LEVEL 1, 193 FERRY ROAD SOUTHPORT QLD 4215 AUSTRALIA  
 T 07 5558 4200 consult@sedgman.com www.sedgman.com/sedgman-consulting

TITLE  
**ROADWORKS & DRAINAGE  
 PLAN SHEET 2 OF 2**

TASK	BY	INITIAL	DATE	APPROVED	RPEQ No
REVIEW	S.S.		19.12.16		
DESIGN	K.E.		09.12.16		
DRAWN	M.G.		09.12.16		

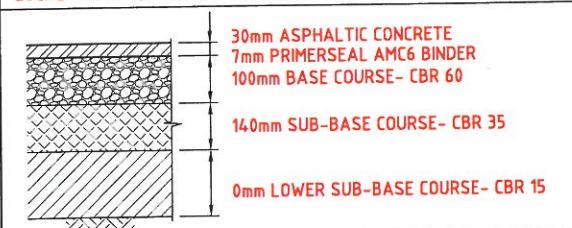
DRAWING NUMBER  
**A441-C-16B-0302**

REVISION  
**AC**



**CRAYFISH PL - PAVEMENT SPECIFICATION**

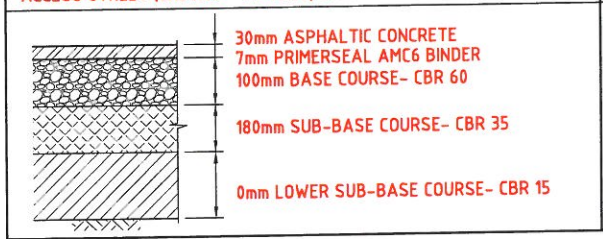
LOCAL ACCESS (CH240.00 - CH340.00) - CBR 8



NOTE:  
1. ROAD PAVEMENT LAYER DEPTHS WERE SUBJECT TO (4 DAY SOAKED) SUBGRADE CBR TESTING IN ACCORDANCE WITH DEPT. OF MAIN ROADS MATERIALS TESTING MANUAL AND B.S.C. DESIGN AND CONSTRUCTION MANUAL

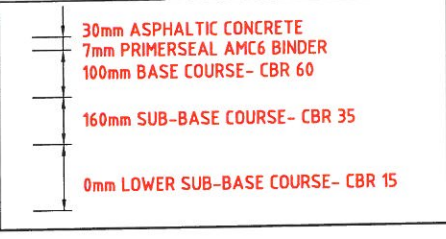
**JOLLYTAIL AVE - PAVEMENT SPECIFICATION**

ACCESS STREET (CH54.00 - CH170.00; CH400.00-CH450.00) - CBR 7

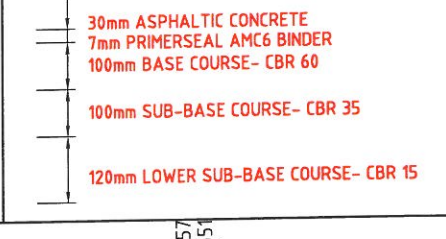


NOTE:  
1. ROAD PAVEMENT LAYER DEPTHS WERE SUBJECT TO (4 DAY SOAKED) SUBGRADE CBR TESTING IN ACCORDANCE WITH DEPT. OF MAIN ROADS MATERIALS TESTING MANUAL AND B.S.C. DESIGN AND CONSTRUCTION MANUAL

ACCESS STREET (CH170.00 - CH240.00) - CBR 8



ACCESS STREET (CH240.00 - CH400.00) - CBR 6



**STAGE 16B**

1. I state that the works described on this drawing have been constructed under my supervision, and I or my authorised representatives have inspected the works at all stages of construction.  
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Project Name: Spring Mountain Estate Stage 16B  
Company: PEET PTY LTD  
Consultant: Sedgman Consulting  
RPEQ/CPEng Membership No. 6554  
Application Number: OW/38/2017

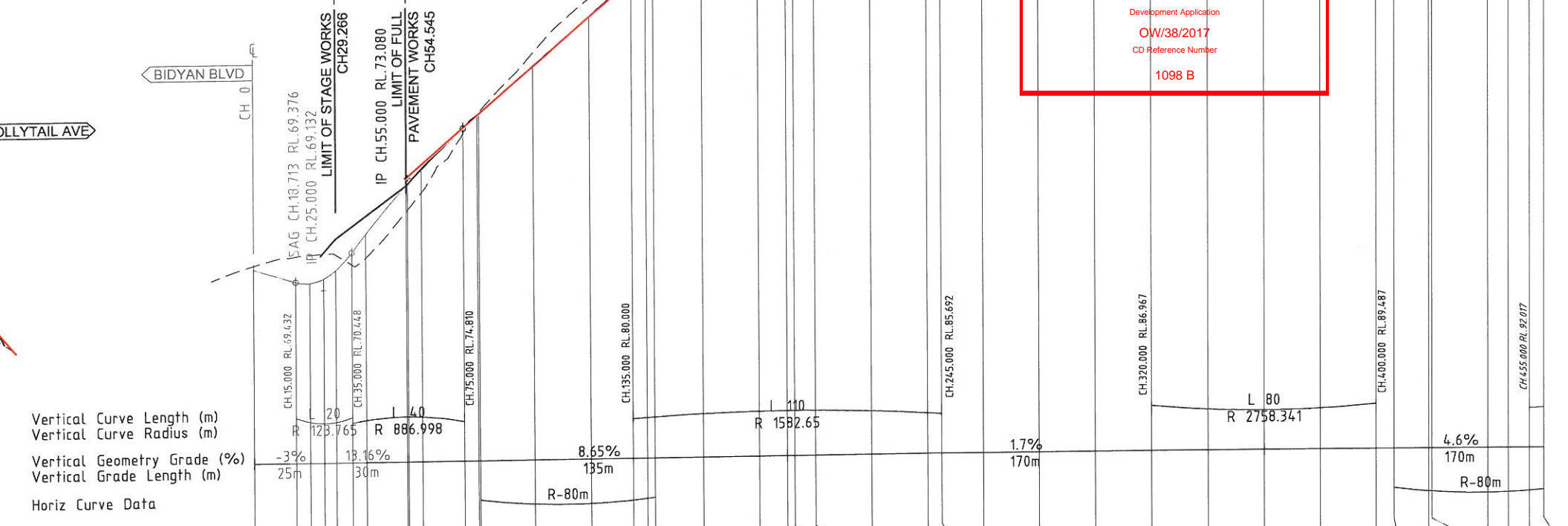
Signature: *[Signature]*  
Date: *[Date]*

Vertical Curve Length (m)  
Vertical Curve Radius (m)  
Vertical Geometry Grade (%)  
Vertical Grade Length (m)  
Horiz Curve Data

DATUM R.L.74.000	
EXISTING SURFACE LEVELS	93.402, 92.619, 91.912, 91.659, 90.114, 90.234, 88.738, 86.914, 86.513, 85.759, 85.320, 84.916, 84.128
CUT / FILL DEPTH	-1.407, -0.960, -0.954, -0.978, -0.961, -1.147, -1.567, -1.953, -2.104, -2.102, -1.775, -1.306, -0.196
DESIGN SURFACE LEVELS	94.994, 94.576, 94.554, 94.540, 94.552, 94.513, 94.547, 94.561, 94.559, 94.583, 94.570, 94.583, 94.568, 94.573
ROAD CONTROL LINE CHAINAGES	220.000, 240.000, 255.473, 260.000, 280.000, 280.752, 300.000, 320.000, 325.000, 335.000, 340.000, 345.000, 355.496

CRAYFISH PL LONGITUDINAL SECTION

**TEMPORARY CUL-DE-SAC JOLLYTAIL AVE**  
FOR DETAILS REFER TO DWG No. A441-C-16B-0307



DATUM R.L.60.000	
VOLUMES	CUT: 0, 4, 98, 260, 298, 186, 128, 36, 48, 24, 3, 15, 31, 0, 2, 13, 14, 9, 4, 26; FILL: 287, 829, 4, 0, 1, 16, 23, 30, 53, 81, 101, 94, 65, 139, 97, 63, 77, 95, 109, 32
EXISTING SURFACE LEVELS	70.018, 70.329, 70.385, 70.415, 70.381, 70.031, 70.251, 71.827, 71.932, 72.549, 74.640, 75.313, 75.379, 77.463, 79.361, 80.602, 80.897, 81.067, 82.316, 83.454, 83.991, 84.128, 84.441, 84.945, 85.415, 85.496, 85.635, 86.323, 86.326, 86.661, 87.242, 87.861, 88.435, 89.243, 89.493, 90.098, 90.187, 91.397, 91.917, 92.362, 92.693
CUT / FILL DEPTH	-0.136, -0.897, -1.002, -0.879, -0.554, 0.841, 0.928, 0.923, 0.836, 0.170, -0.071, -0.086, -0.490, -0.658, -0.602, -0.472, -0.415, -0.351, -0.202, -0.189, -0.196, -0.153, 0.125, 0.184, 0.197, 0.312, -0.035, 0.301, 0.306, 0.138, 0.076, 0.205, 0.244, 0.291, 0.256, -0.070, -0.250, -0.345, -0.453
DESIGN SURFACE LEVELS	69.882, 69.432, 69.383, 69.536, 69.826, 70.448, 71.092, 72.805, 73.507, 74.815, 75.000, 75.289, 76.756, 78.705, 80.000, 80.420, 80.762, 80.877, 81.957, 83.253, 83.742, 83.983, 84.273, 84.746, 85.070, 85.502, 85.702, 85.987, 86.287, 86.627, 86.979, 87.389, 87.840, 88.337, 88.862, 89.415, 89.985, 90.553, 91.116, 91.676, 92.234, 92.791, 93.348
ROAD CONTROL LINE CHAINAGES	0.000, 15.000, 20.000, 25.000, 29.266, 35.000, 40.000, 54.545, 60.000, 75.000, 80.000, 80.593, 100.000, 120.000, 135.000, 140.000, 142.753, 160.000, 180.000, 190.000, 192.551, 200.000, 220.000, 240.000, 245.000, 260.000, 280.000, 300.000, 320.000, 340.000, 360.000, 380.000, 400.000, 406.440, 418.865, 420.000, 440.000, 447.375, 455.000, 460.000

JOLLYTAIL AVE LONGITUDINAL SECTION

**LOGAN CITY COUNCIL**  
**APPROVED AS CONSTRUCTED DRAWING**  
This is the approved As Constructed Drawing for  
Development Application  
OW/38/2017  
CD Reference Number  
1098 B

AC	AS CONSTRUCTED	H.H.	03.11.17
B	UPDATED EXISTING SURVEY	G.S.	23.05.17
A	ORIGINAL ISSUE	M.G.	09.12.16
REV	DESCRIPTION	DRAWN	DATE

CLIENT: PEET

PROJECT: SPRING MOUNTAIN ESTATE STAGE 16B

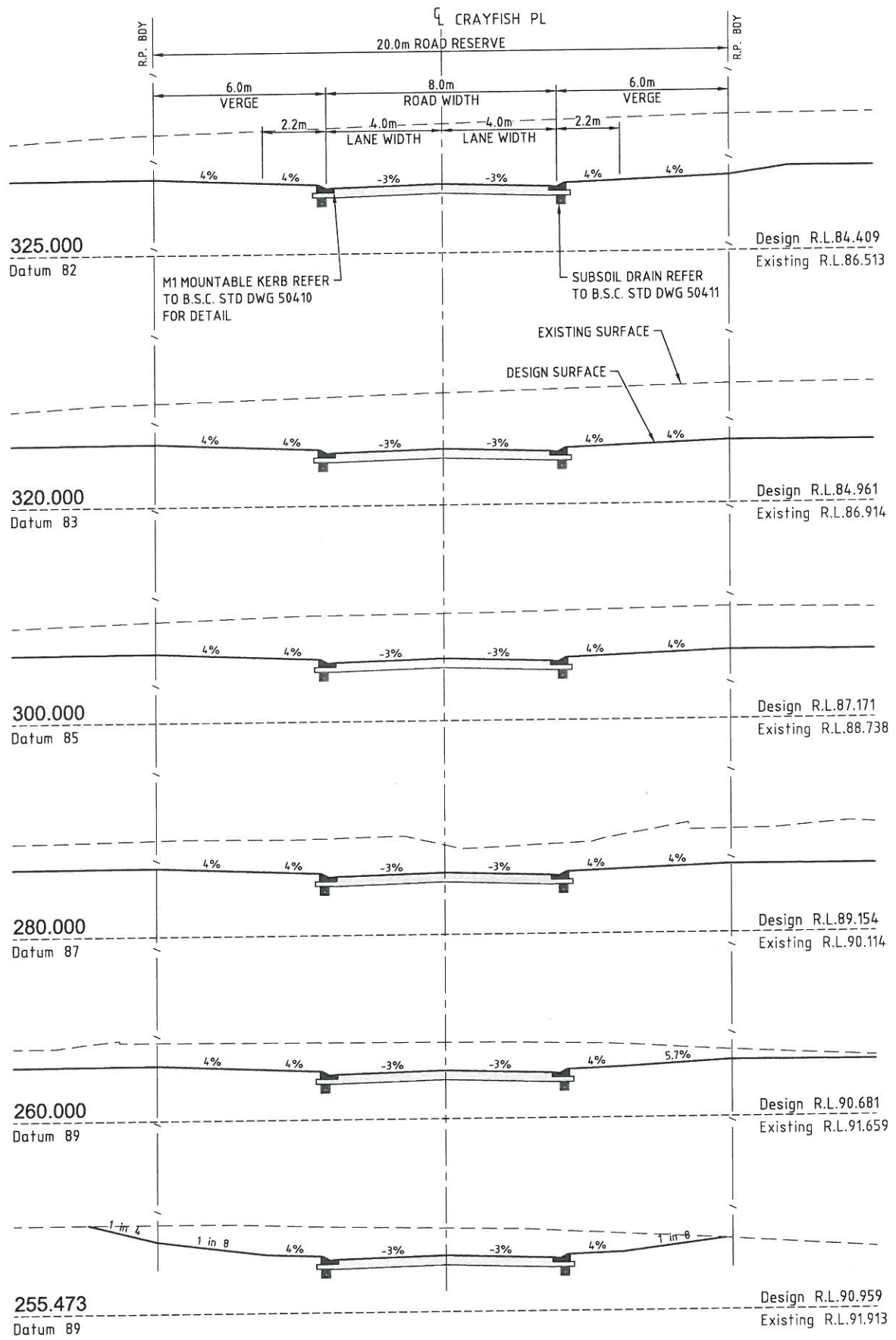
STAGE / PHASE: AS CONSTRUCTED

SEDGMAN

LEVEL 1, 193 FERRY ROAD SOUTHPORT QLD 4215 AUSTRALIA  
T 07 5558 4200 consult@sedgman.com www.sedgman.com/sedgman-consulting

TITLE	CRAYFISH PL & JOLLYTAIL AVE LONGITUDINAL SECTIONS			
TASK	BY	INITIAL	DATE	APPROVED
REVIEW	S.S.		19.12.16	RPEQ No
DESIGN	K.E.		09.12.16	DRAWING NUMBER
DRAWN	M.G.		09.12.16	A441-C-16B-0303
REVISION				





**STAGE 16B**

1. I state that the works described on this drawing have been constructed under my supervision, and I or my authorised representatives have inspected the works at all stages of construction.

2. I certify that the works have been constructed to my satisfaction and in accordance with the development approval, the approved drawings, the Logan Planning Scheme 2015 / Beaudesert Shire Planning Scheme 2007 and any relevant planning scheme policies and standard specifications.

3. I certify the approved drawings have been carefully compared with the works site as to line, levels and dimensions, and this drawing has been accurately amended in all respects as to constitute a true record of the works.

Project Name: Spring Mountain Estate Stage 16B  
Company: PEET PTY LTD  
Consultant: Sedgman Consulting  
RPEQ/CPEng Membership No. 6554  
Application Number: OW/38/2017

Signature: *S.M.H.*  
Date: 7/12/17

**LOGAN CITY COUNCIL**  
**APPROVED AS CONSTRUCTED DRAWING**  
This is the approved As Constructed Drawing for  
Development Application  
OW/38/2017  
CD Reference Number  
1098 B

REV	DESCRIPTION	DRAWN	DATE
AC	AS CONSTRUCTED	H.H.	03.11.17
B	UPDATED EXISTING SURVEY	G.S.	23.05.17
A	ORIGINAL ISSUE	M.G.	09.12.16

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SCALE (AT ORIGINAL SHEET SIZE)  
SCALE 1 0 1 2 3 4 5 1:100

ORIGINAL SHEET SIZE  
**A1**

CLIENT  
**PEET**

PROJECT  
**SPRING MOUNTAIN ESTATE  
STAGE 16B**

STAGE / PHASE  
**AS CONSTRUCTED**

**SEDGMAN**

LEVEL 1, 193 FERRY ROAD SOUTHPORT QLD 4215 AUSTRALIA  
T 07 5558 4200 consult@sedgman.com www.sedgman.com/sedgman-consulting

TASK	BY	INITIAL	DATE	APPROVED	RPEQ No
REVIEW	S.S.		19.12.16		
DESIGN	K.E.		09.12.16		
DRAWN	M.G.		09.12.16		

TITLE  
**CRAYFISH PL CROSS SECTIONS**

DRAWING NUMBER	REVISION
<b>A441-C-16B-0304</b>	<b>AC</b>



**LOGAN CITY COUNCIL**  
**APPROVED AS CONSTRUCTED DRAWING**  
 This is the approved As Constructed Drawing for  
 Development Application  
 OW/38/2017  
 CD Reference Number  
 1098 B

**STAGE 16B**

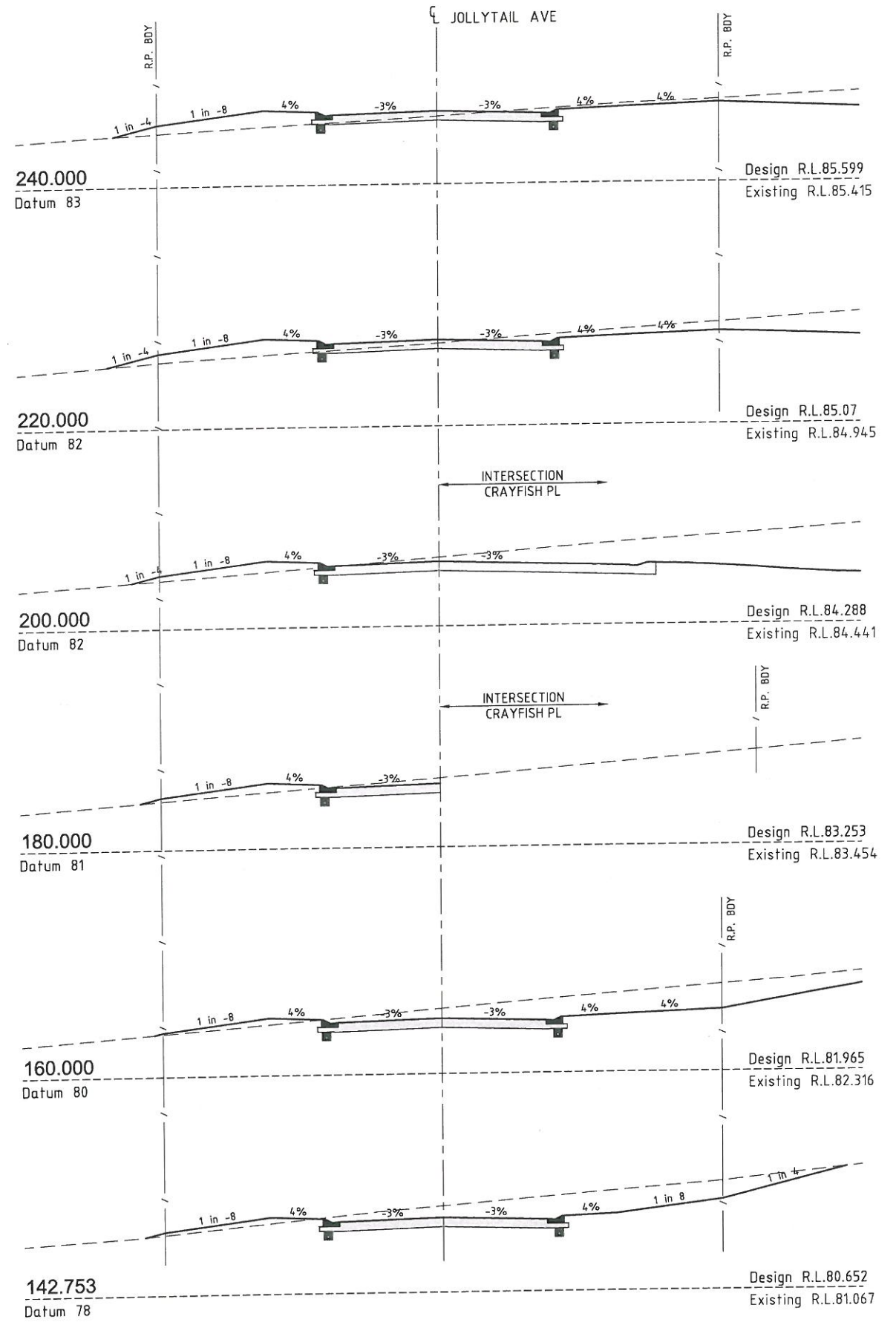
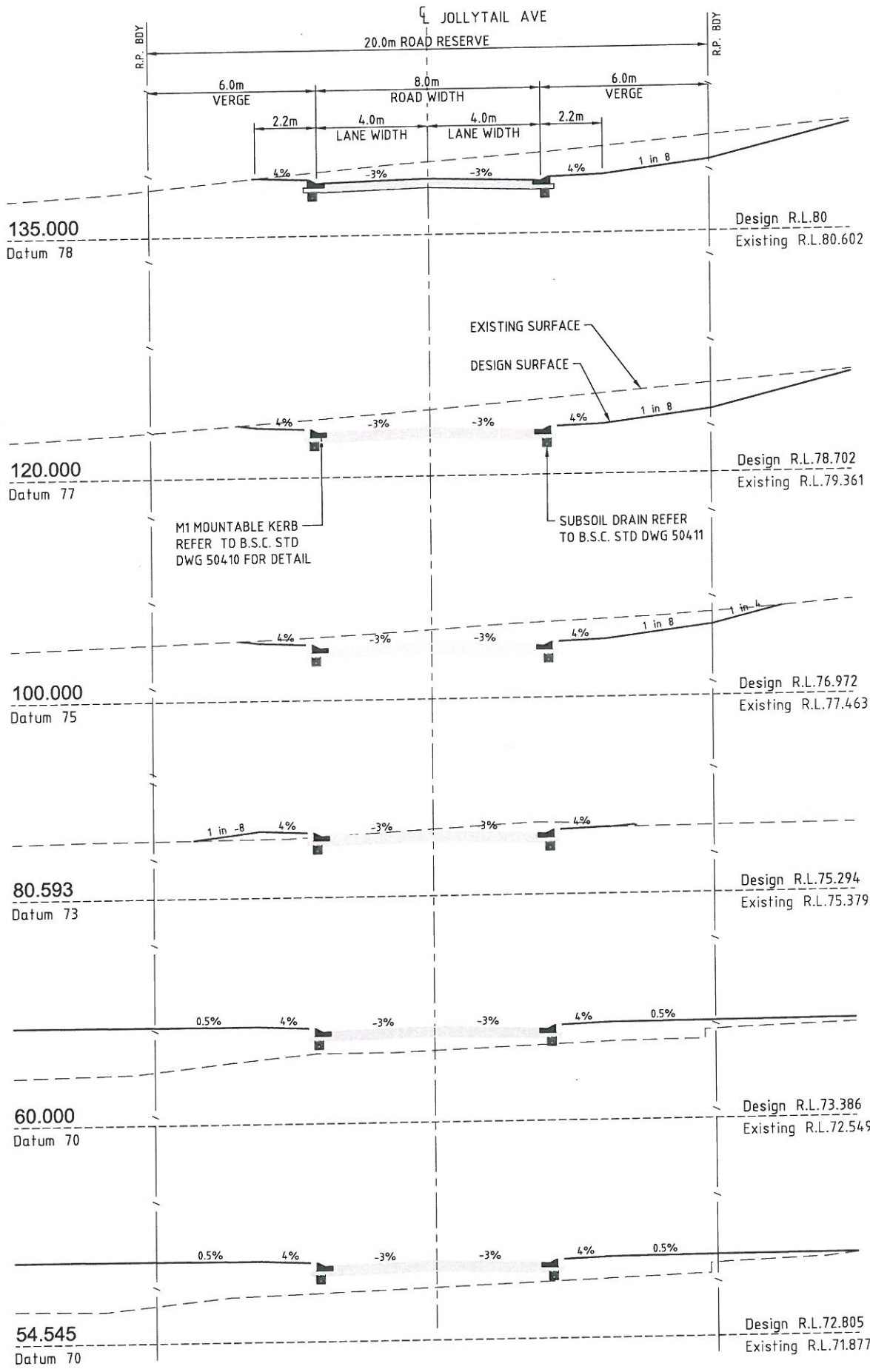
1. I state that the works described on this drawing have been constructed under my supervision, and I or my authorised representatives have inspected the works at all stages of construction.

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Project Name: Spring Mountain Estate Stage 16B  
 Company: PEET PTY LTD  
 Consultant: Sedgman Consulting  
 RPEQ/CPEng Membership No. 6554  
 Application Number: OW/38/2017

Signature: *[Signature]*  
 Date: 11/12/17



REV	DESCRIPTION	DRAWN	DATE
AC	AS CONSTRUCTED	H.H.	03.11.17
B	UPDATED EXISTING SURVEY	G.S.	23.05.17
A	ORIGINAL ISSUE	M.G.	09.12.16

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CLIENT: PEET

PROJECT: SPRING MOUNTAIN ESTATE STAGE 16B

SCALE (AT ORIGINAL SHEET SIZE): 1:100

ORIGINAL SHEET SIZE: A1

CLIENT: PEET

PROJECT: SPRING MOUNTAIN ESTATE STAGE 16B

STAGE / PHASE: AS CONSTRUCTED

**SEDGMAN**

LEVEL 1, 193 FERRY ROAD SOUTHPORT QLD 4215 AUSTRALIA  
 T 07 5550 4200 consult@sedgman.com www.sedgman.com/sedgman-consulting

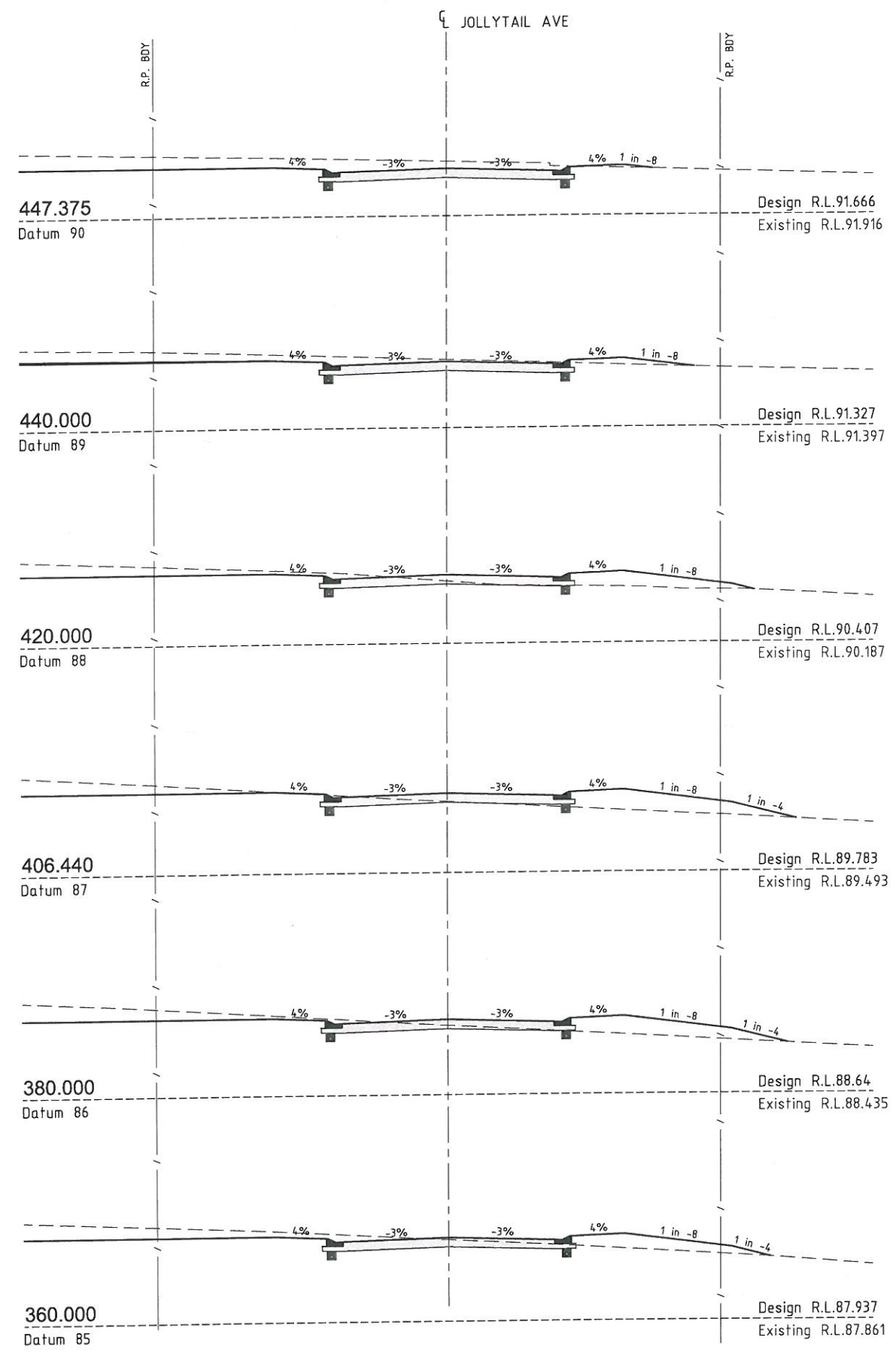
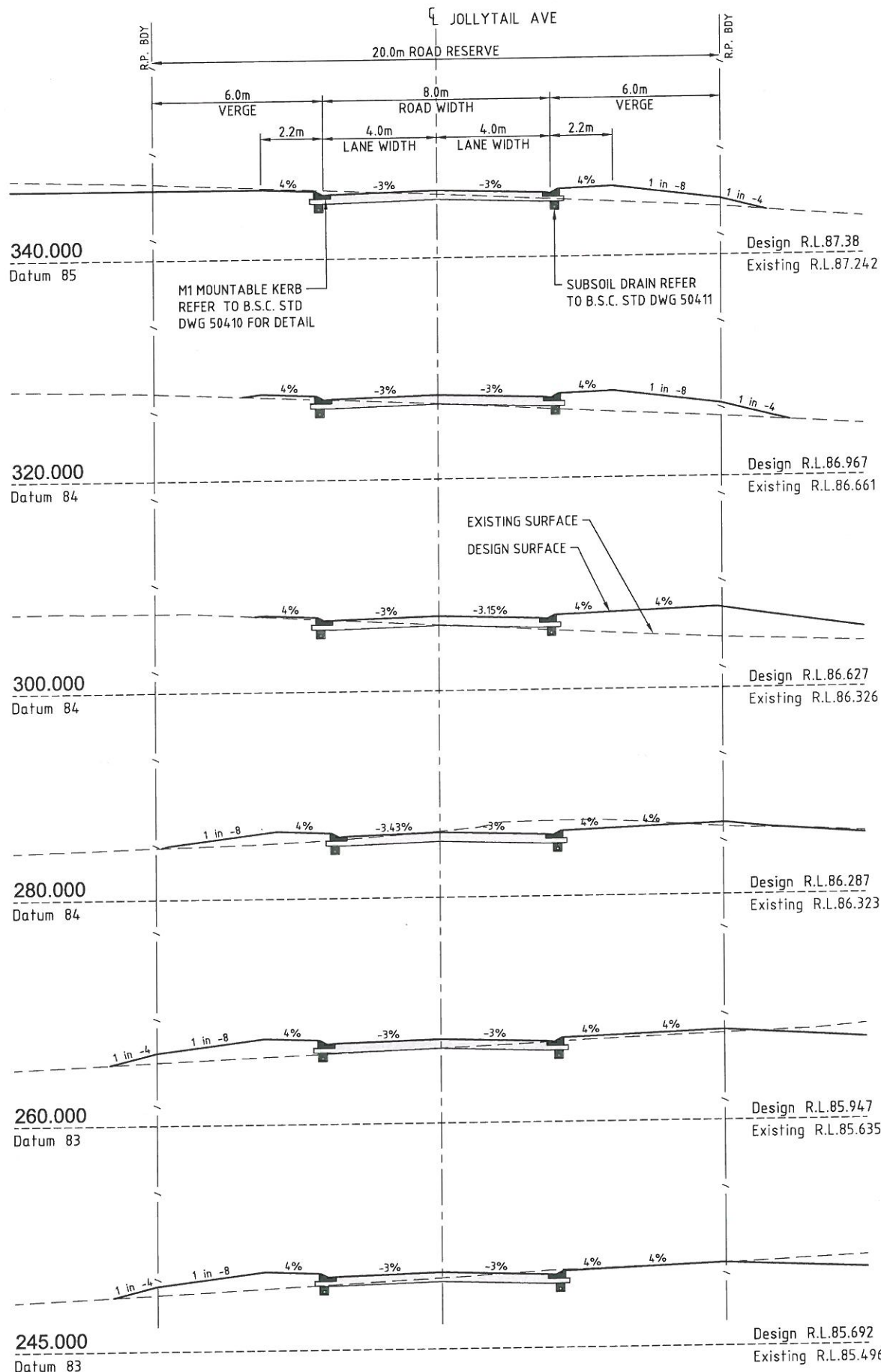
TITLE: JOLLYTAIL AVE CROSS SECTIONS SHEET 1 OF 2

TASK	BY	INITIAL	DATE	APPROVED	RPEQ No
REVIEW	S.S.		19.12.16		
DESIGN	K.E.		09.12.16		
DRAWN	M.G.		09.12.16		

DRAWING NUMBER: A441-C-16B-0305

REVISION: AC





**LOGAN CITY COUNCIL**  
**APPROVED AS CONSTRUCTED DRAWING**  
This is the approved As Constructed Drawing for  
Development Application  
OW/38/2017  
CD Reference Number  
1098 B

**STAGE 16B**

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Project Name: Spring Mountain Estate Stage 16B  
Company: PEET PTY LTD  
Consultant: Sedgman Consulting  
RPEQ/CPEng Membership No. 6554  
Application Number: OW/38/2017

Signature: *[Signature]*  
Date: 9/12/17

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SCALE (AT ORIGINAL SHEET SIZE)  
SCALE 1 0 1 2 3 4 5 1:100

REV	DESCRIPTION	DRAWN	DATE
AC	AS CONSTRUCTED	H.H.	03.11.17
B	UPDATED EXISTING SURVEY	G.S.	23.05.17
A	ORIGINAL ISSUE	M.G.	09.12.16

CLIENT

**PEET**

ORIGINAL SHEET SIZE  
**A1**

PROJECT

**SPRING MOUNTAIN ESTATE  
STAGE 16B**

STAGE / PHASE **AS CONSTRUCTED**

**SEDGMAN**

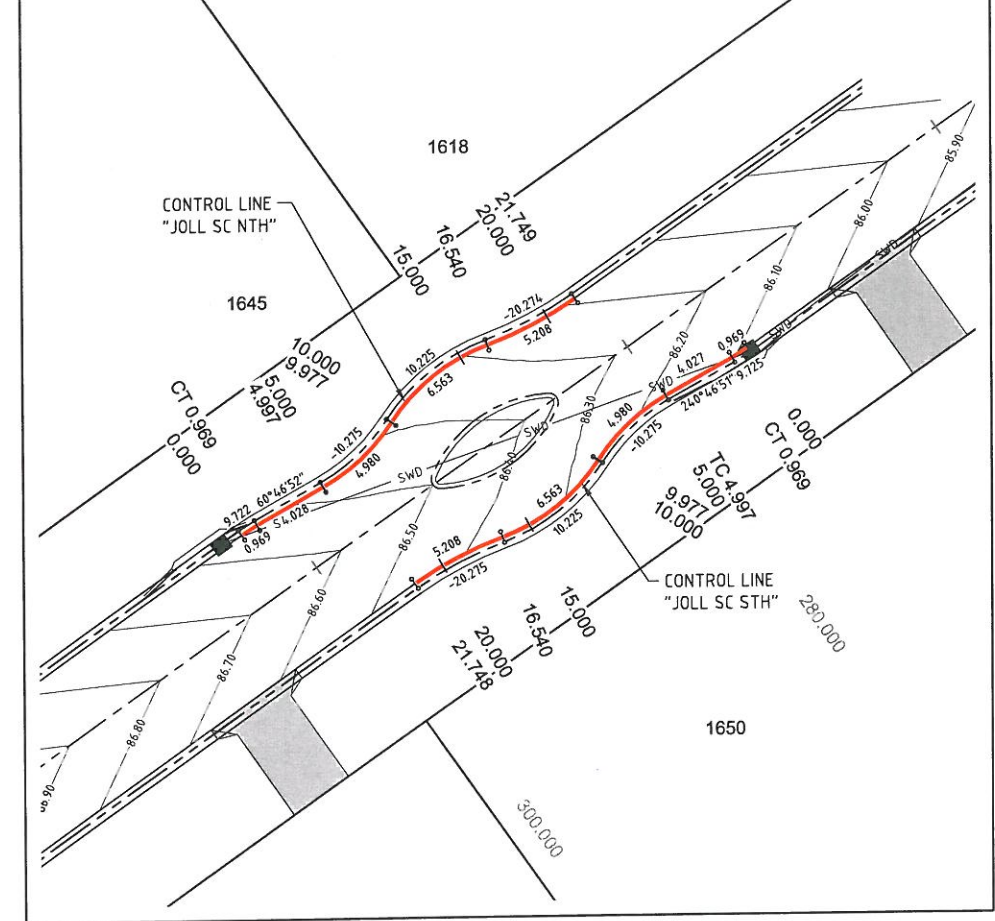
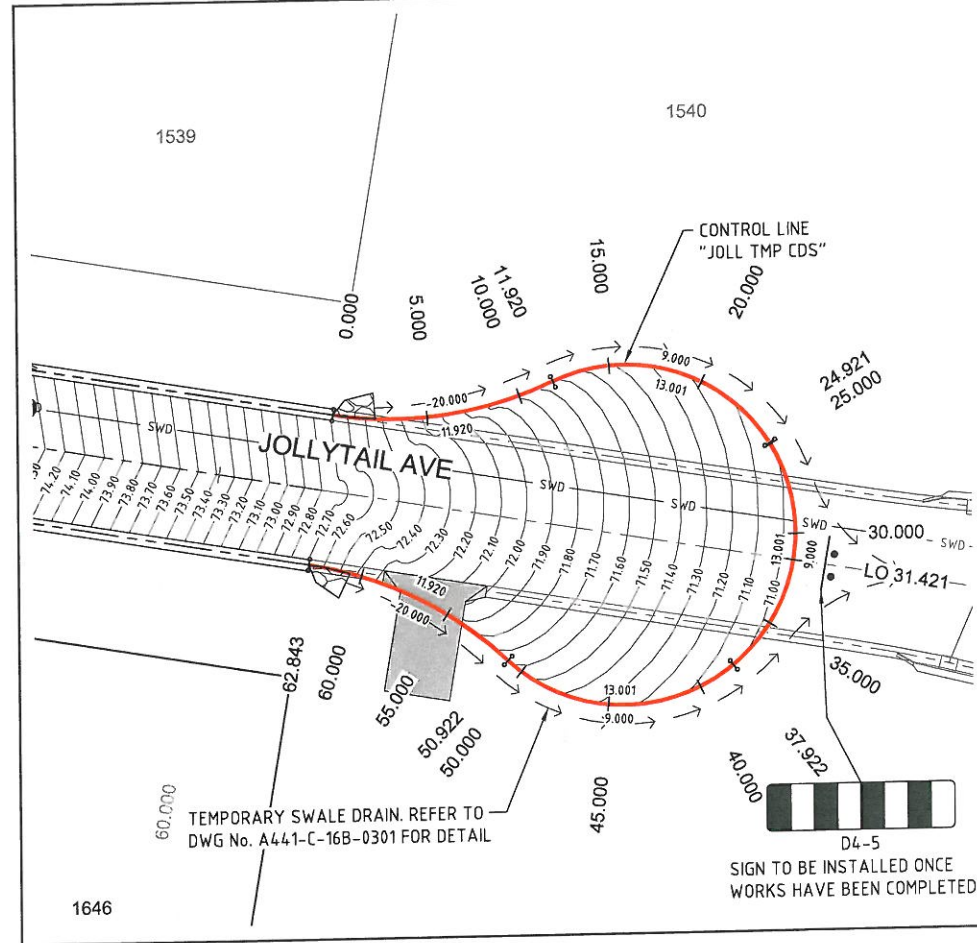
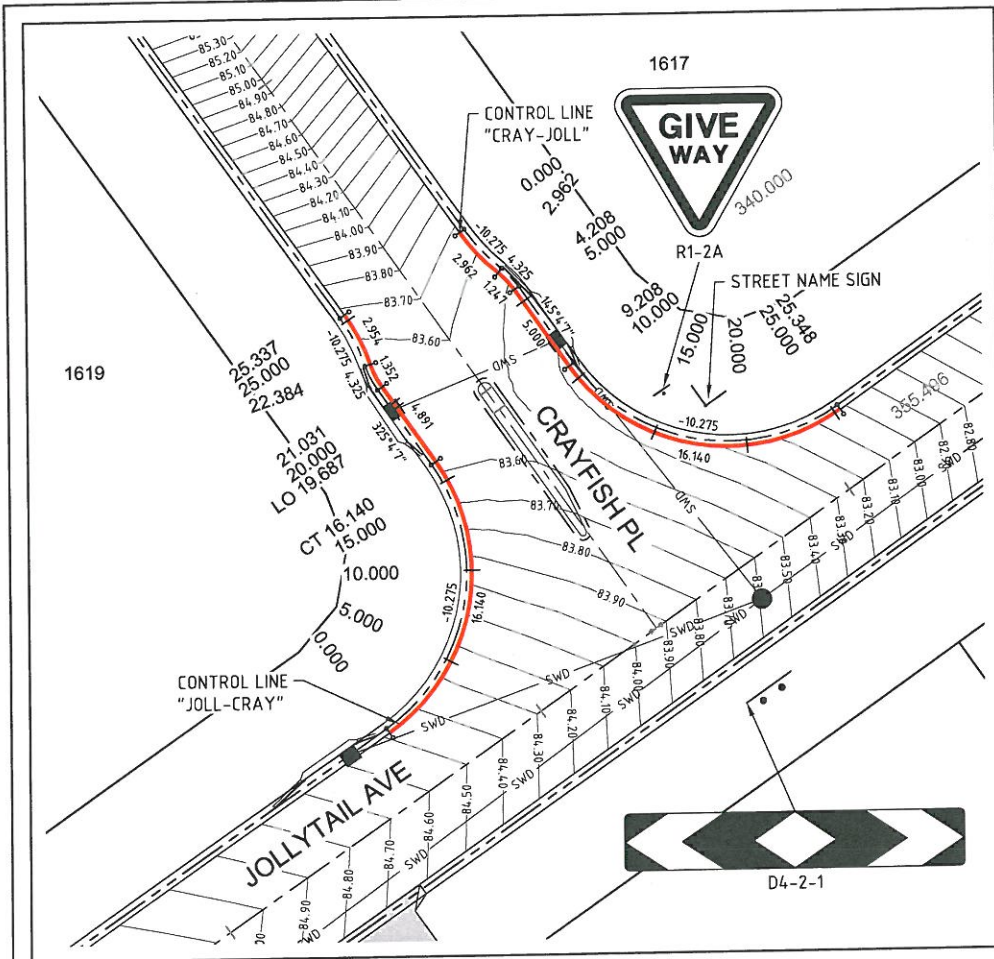
LEVEL 1, 193 FERRY ROAD SOUTHPORT QLD 4215 AUSTRALIA  
T 07 5558 4200 consult@sedgman.com www.sedgman.com/sedgman-consulting

TITLE  
**JOLLYTAIL AVE CROSS SECTIONS  
SHEET 2 OF 2**

TASK	BY	INITIAL	DATE	APPROVED	RPEQ No
REVIEW	S.S.		19.12.16		
DESIGN	K.E.		09.12.16		
DRAWN	M.G.		09.12.16		

DRAWING NUMBER **A441-C-16B-0306** REVISION **AC**





CONTROL LINE "CRAY-JOLL"									
PT	Chainage	Easting	Northing	Level	Bearing	Radius	A.Length	D.Angle	
IP1	0.000	492473.998	6930394.566	83.676	145°04'13"				
IP2	1.481	492474.851	6930393.343	83.597		-10.275	2.962	16°30'55"	
IP3	2.962	492476.018	6930392.414	83.531			4.325	124.7	16°30'51"
IP4	3.585	492476.508	6930392.023	83.506					
IP5	4.208	492476.868	6930391.508	83.484					
IP6	5.000	492477.321	6930390.859	83.458	145°04'07"				
IP7	9.208	492479.731	6930387.409	83.379					
IP8	10.000	492480.209	6930386.778	83.374	140°39'12"				
IP9	15.000	492484.177	6930383.818	83.348	112°46'19"				
IP10	17.278	492485.614	6930378.985	83.326		-10.275	16.140	89°59'54"	
IP11	20.000	492489.070	6930383.058	83.262	84°53'27"				
IP12	25.000	492493.749	6930384.674	83.041	57°00'35"				
IP13	25.348	492494.038	6930384.868	83.021	55°04'13"				

CONTROL LINE "JOLL-CRAY"								
PT	Chainage	Easting	Northing	Level	Bearing	Radius	A.Length	D.Angle
IP1	0.000	492470.098	6930368.149	84.485	55°04'13"			
IP2	5.000	492473.354	6930371.878	84.249	27°11'21"			
IP3	8.070	492478.522	6930374.033	84.073		-10.275	16.140	90°00'06"
IP4	10.000	492474.489	6930376.697	83.950	359°18'29"			
IP5	15.000	492473.238	6930381.488	83.623	331°25'36"			
CT	16.140	492472.639	6930382.457	83.575	325°04'07"			
SAG	19.687	492470.608	6930385.364	83.509	325°04'07"			
IP6	20.000	492470.429	6930385.621	83.510	325°04'07"			
IP7	21.031	492469.838	6930386.467	83.519				
IP8	21.708	492469.434	6930387.015	83.531		4.325	1.352	17°54'44"
CC	22.384	492469.218	6930387.662	83.547	341°32'24"			
IP9	23.860	492468.747	6930389.073	83.600		-10.275	2.954	16°28'12"
IP10	25.000	492468.084	6930390.012	83.656	326°57'01"			
IP11	25.337	492467.896	6930390.292	83.675	325°04'11"			

CONTROL LINE "JOLL TMP CDS"								
PT	Chainage	Easting	Northing	Level	Bearing	Radius	A.Length	D.Angle
IP1	0.000	492610.508	6930414.865	72.670	99°35'20"			
IP2	5.000	492615.491	6930414.654	72.166	85°15'54"			
IP3	5.960	492616.566	6930413.842	72.079		-20.000	11.920	34°08'55"
IP4	10.000	492620.371	6930415.682	71.749	70°56'28"			
IP5	11.920	492622.153	6930416.395	71.612				
IP6	15.000	492625.117	6930417.176	71.419	85°02'53"			
IP7	18.420	492629.365	6930419.691	71.243		9.000	13.001	82°45'56"
IP8	20.000	492629.963	6930416.237	71.176	116°52'44"			
CC	24.921	492633.543	6930412.951	71.022	148°12'22"			
IP9	25.000	492633.584	6930412.884	71.021	148°42'36"			
IP10	30.000	492634.893	6930408.124	70.952	180°32'27"			
IP11	31.421	492637.721	6930406.211	70.949		9.000	13.001	82°45'56"
IP12	35.000	492633.495	6930403.391	70.971	212°22'19"			
CC	37.922	492631.561	6930401.218	71.022	230°58'18"			
IP13	40.000	492629.810	6930400.106	71.077	244°12'10"			
IP14	44.422	492625.401	6930396.224	71.243		9.000	13.001	82°45'56"
IP15	45.000	492624.948	6930399.259	71.270	276°02'02"			
IP16	50.000	492620.369	6930401.104	71.550	307°51'54"			
CC	50.922	492619.671	6930401.707	71.612	313°44'14"			
IP17	55.000	492616.459	6930404.20	71.918	302°03'21"			
IP18	56.883	492615.233	6930405.95	72.079		-20.000	11.920	34°08'55"
IP19	60.000	492611.936	6930406.306	72.373	287°43'55"			
IP20	62.843	492609.176	6930406.977	72.670	279°35'19"			

**STAGE 16B**

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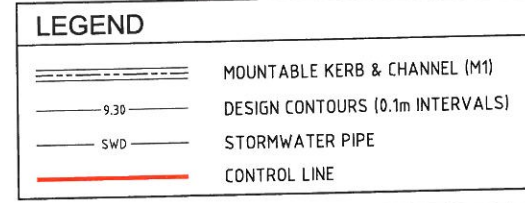
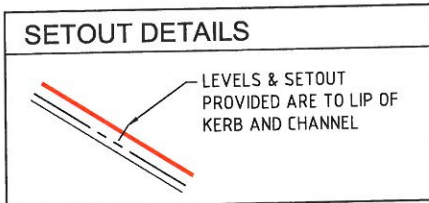
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Project Name: Spring Mountain Estate Stage 16B  
 Company: PEET PTY LTD  
 Consultant: Sedgman Consulting  
 RPEQ/CPEng Membership No. 6554  
 Application Number: OW/38/2017

Signature: *[Signature]*  
 Date: *[Date]*

CONTROL LINE "JOLL SC NTH"								
PT	Chainage	Easting	Northing	Level	Bearing	Radius	A.Length	D.Angle
IP1	0.000	492392.138	6930313.704	86.553	55°04'10"			
IP2	0.485	492392.536	6930313.981	86.545		9.722	0.969	5°42'42"
CT	0.969	492392.959	6930314.218	86.537	60°46'52"			
IP3	4.997	492396.474	6930316.184	86.449				
IP4	5.000	492396.477	6930316.186	86.469	60°45'47"			
IP5	7.487	492398.691	6930317.424	86.427		-10.275	4.980	27°46'17"
IP6	9.977	492400.075	6930319.554	86.386				
IP7	10.000	492400.088	6930319.573	86.386	33°08'21"			
IP8	13.259	492401.927	6930322.405	86.332		10.225	6.563	36°46'44"
IP9	15.000	492403.717	6930322.940	86.303	61°09'25"			
IP10	16.540	492405.117	6930323.579	86.277				
IP11	19.145	492407.574	6930324.484	86.233		-20.274	5.208	14°43'07"
IP12	20.000	492408.246	6930325.045	86.219	60°00'44"			
IP13	21.749	492409.721	6930325.983	86.189	55°04'11"			

CONTROL LINE "JOLL SC STH"								
PT	Chainage	Easting	Northing	Level	Bearing	Radius	A.Length	D.Angle
IP1	0.000	492418.863	6930323.281	86.088	235°04'13"			
IP2	0.485	492418.465	6930323.003	86.096		9.725	0.969	5°42'38"
CT	0.969	492418.042	6930322.766	86.104	240°46'51"			
TC	4.997	492414.527	6930320.800	86.172	240°46'51"			
IP3	5.000	492414.524	6930320.799	86.172	240°45'45"			
IP4	7.487	492412.310	6930319.560	86.214		-10.275	4.980	27°46'14"
IP5	9.977	492410.927	6930317.430	86.255				
IP6	10.000	492410.914	6930317.411	86.256	213°08'24"			
IP7	13.259	492409.075	6930316.580	86.310		10.225	6.563	36°46'41"
IP8	15.000	492407.285	6930314.044	86.339	241°09'27"			
IP9	16.540	492405.885	6930313.405	86.364				
IP10	19.144	492403.427	6930312.501	86.408		-20.275	5.208	14°43'05"
IP11	20.000	492402.755	6930311.940	86.423	240°00'40"			
IP12	17.48	492401.281	6930311.001	86.452	235°04'13"			



**LOGAN CITY COUNCIL**  
**APPROVED AS CONSTRUCTED DRAWING**  
 This is the approved As Constructed Drawing for  
 Development Application  
**OW/38/2017**  
 CD Reference Number  
**1098 B**

AC	AS CONSTRUCTED	H.H.	03.11.17
B	UPDATED EXISTING SURVEY	G.S.	23.05.17
A	ORIGINAL ISSUE	M.G.	09.12.16
REV	DESCRIPTION	DRAWN	DATE

CLIENT

ORIGINAL SHEET SIZE: A1

PROJECT

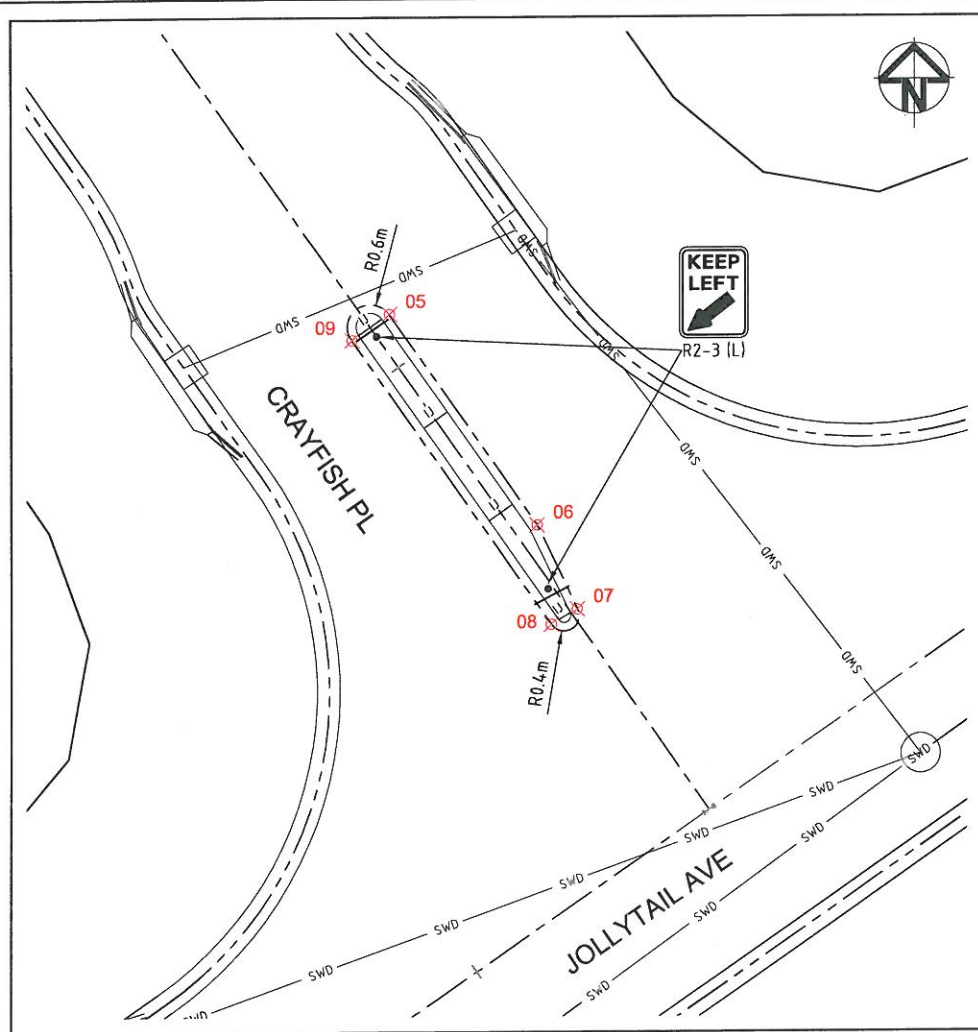
**SPRING MOUNTAIN ESTATE STAGE 16B**

STAGE / PHASE: **AS CONSTRUCTED**

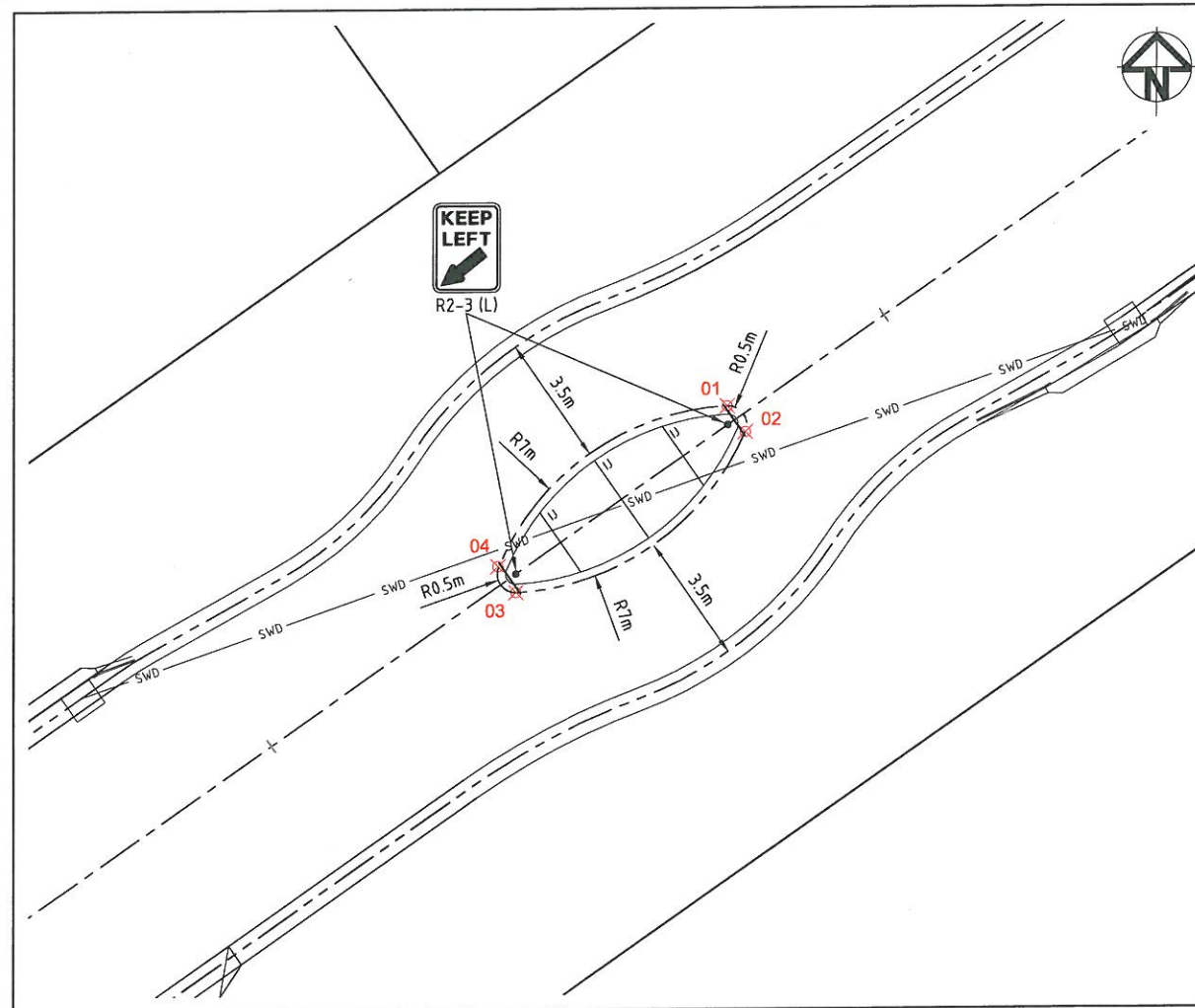
LEVEL 1, 193 FERRY ROAD SOUTHPORT QLD 4215 AUSTRALIA  
 T 07 5558 4200 [consult@sedgman.com](mailto:consult@sedgman.com) [www.sedgman.com/sedgman-consulting](http://www.sedgman.com/sedgman-consulting)

TITLE				<b>INTERSECTION DETAILS</b>	
TASK	BY	INITIAL	DATE	APPROVED	RPEQ No
REVIEW	S.S.		19.12.16		
DESIGN	K.E.		09.12.16		
DRAWN	M.G.		09.12.16		
DRAWING NUMBER				<b>A441-C-16B-0307</b>	
REVISION				AC	





**JOLLYTAIL AVE & CRAYFISH PL - TRAFFIC ISLAND**  
SCALE 1:100



**JOLLYTAIL AVE - SPEED CONTROL ISLAND**  
SCALE 1:100

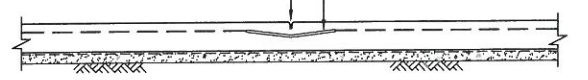
LEGEND	
	MOUNTABLE KERB & CHANNEL
	SEMI-MOUNTABLE KERB
	STORMWATER PIPE
	KERB SETOUT POINT
	SIGN POST

NOTES	
•	FOR ROADWORKS NOTES REFER TO GENERAL NOTES DWG No. A441-C-16B-0001

MEDIAN SETOUT POINTS		
POINTS	EASTING	NORTHING
01	492408.318	6930320.976
02	492408.803	6930320.282
03	492402.683	6930316.009
04	492402.199	6930316.702
05	492475.76	6930386.588
06	492479.669	6930380.991
07	492480.734	6930378.759
08	492480.045	6930378.357
09	492474.776	6930385.901

30 DEEP x 6 WIDE TOOL JOINT. 5 RADIUS TO TOOLED EDGES. SAW CUT WITHIN 24 hrs. OF PLACING CONCRETE. FILL WITH A JOINT FILLER AS SPECIFIED.

FABRIC- CUT EVERY SECOND WIRE CROSSING JOINT AND DEPRESS FABRIC TO MAINTAIN COVER.

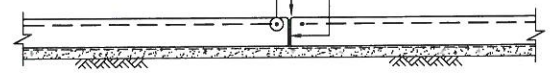


**TYPICAL TOOL JOINT (T.J.) DETAIL**  
SCALE 1:20

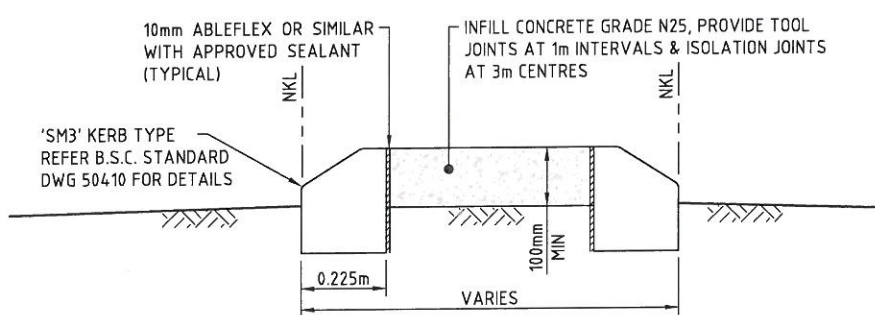
1N12 CONTINUOUS EACH SIDE. 4.0 EDGE COVER LAP 450 AS REQUIRED.

5mm RADIUS TOOLED EDGES.

10mm THICK ABELFLEX



**TYPICAL ISOLATION JOINT (I.J.) DETAIL**  
SCALE 1:20



**TYPICAL MEDIAN DETAIL**  
SCALE 1:10

**LOGAN CITY COUNCIL**  
**APPROVED AS CONSTRUCTED DRAWING**

This is the approved As Constructed Drawing for  
Development Application  
**OW/38/2017**  
CD Reference Number  
**1098 B**

**STAGE 16B**

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Project Name: Spring Mountain Estate Stage 16B  
Company: PEET PTY LTD  
Consultant: Sedgman Consulting  
RPEQ/CPEng Membership No. 6554  
Application Number: OW/38/2017

Signature: *[Signature]*  
Date: *[Date]*

REV	DESCRIPTION	DRAWN	DATE
AC	AS CONSTRUCTED	H.H.	03.11.17
A	ORIGINAL ISSUE	M.G.	09.12.16

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SCALE (AT ORIGINAL SHEET SIZE)	AS SHOWN
ORIGINAL SHEET SIZE	A1

CLIENT

PROJECT

**SPRING MOUNTAIN ESTATE STAGE 16B**

STAGE / PHASE **AS CONSTRUCTED**

LEVEL 1, 193 FERRY ROAD SOUTHPORT QLD 4215 AUSTRALIA  
T 07 5558 4200 [consult@sedgman.com](mailto:consult@sedgman.com) [www.sedgman.com/sedgman-consulting](http://www.sedgman.com/sedgman-consulting)

TASK				APPROVED	RPEQ No
REVIEW	BY	INITIAL	DATE	APPROVED	RPEQ No
DESIGN	K.E.		09.12.16		
DRAWN	M.G.		09.12.16		
DRAWING NUMBER				A441-C-16B-0308	
TITLE				MEDIAN SETOUT DETAILS	



**STAGE 16B**

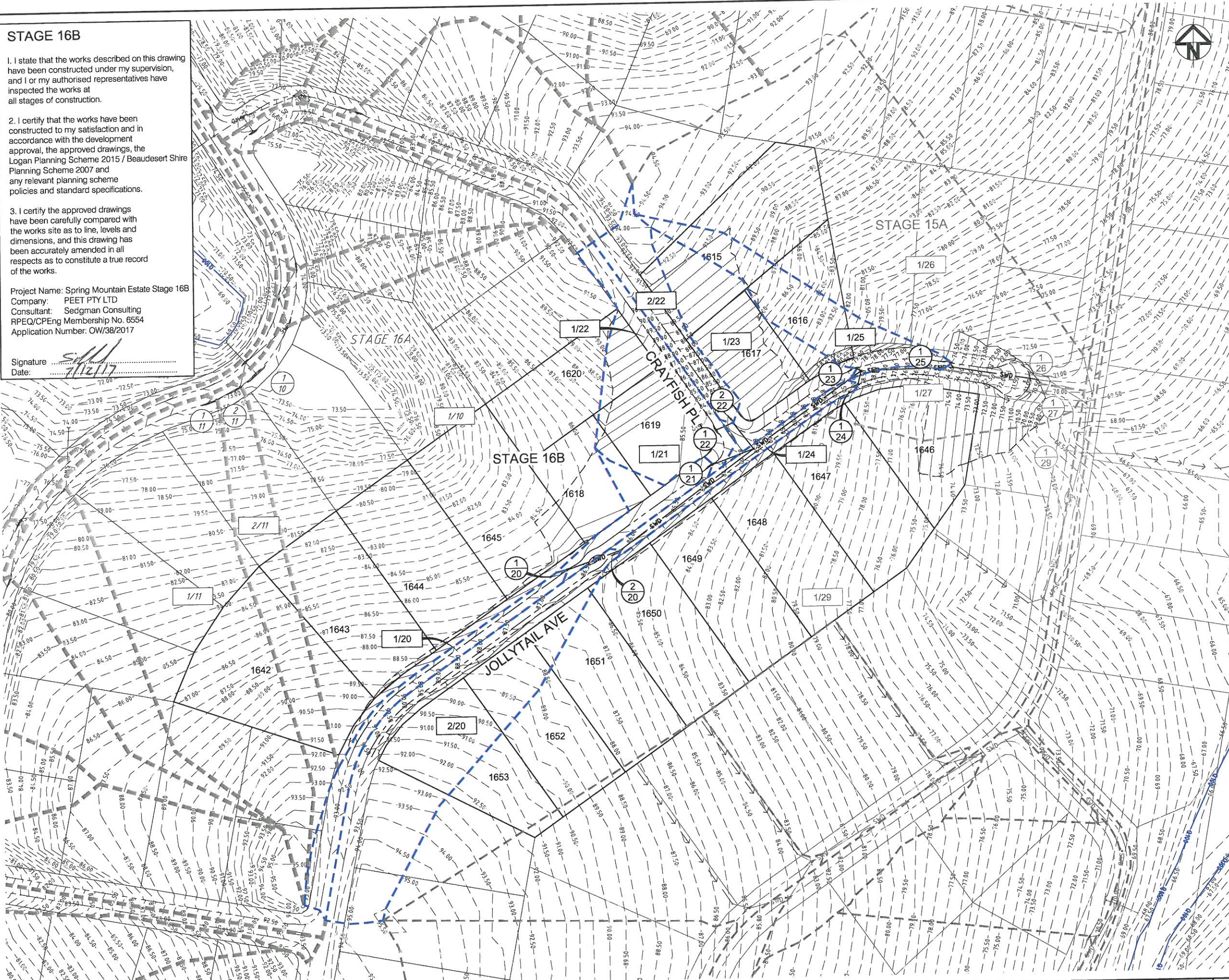
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Project Name: Spring Mountain Estate Stage 16B  
 Company: PEET PTY LTD  
 Consultant: Sedgman Consulting  
 RPEQ/CPEng Membership No. 6554  
 Application Number. OW/38/2017

Signature: *[Signature]*  
 Date: *[Date]*



**LEGEND**

- NOMINAL KERB LINE
- EXISTING CONTOURS (0.5m INTERVAL)
- DESIGN CONTOURS (0.5m INTERVAL)
- STORMWATER PIPE
- CATCHMENT LABEL
- STRUCTURE LABEL
- FUTURE CATCHMENT LABEL
- FUTURE STRUCTURE LABEL
- EXISTING CATCHMENT LABEL
- EXISTING STRUCTURE LABEL
- CATCHMENT BOUNDARY
- EASEMENT BOUNDARY
- EXISTING STORMWATER
- FUTURE STORMWATER
- LOT BOUNDARY
- ROAD CENTRE LINE
- BOTTOM OF BATTER
- TOP OF BATTER

**CATCHMENT TABLE**

CATCHMENT	AREA (Ha)	CATCHMENT	AREA (Ha)
1/10	3.392ha	2/22	0.215ha
1/11	1.480ha	1/23	0.459ha
2/11	0.415ha	1/24	0.095ha
1/20	0.187ha	1/25	0.321ha
2/20	0.872ha	1/26	1.975ha
1/21	0.130ha	1/27	0.353ha
1/22	0.448ha		

**NOTES**

- FOR STORMWATER NOTES REFER TO GENERAL NOTES DWG No. A441-C-16B-0001

**LOGAN CITY COUNCIL**  
**APPROVED AS CONSTRUCTED DRAWING**  
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SCALE (AT ORIGINAL SHEET SIZE)  
 SCALE 10 0 10 20 1:500

CLIENT  
**PEET**  
 ORIGINAL SHEET SIZE  
**A1**

PROJECT  
**SPRING MOUNTAIN ESTATE  
 STAGE 16B**  
 STAGE / PHASE  
**AS CONSTRUCTED**

**SEDGMAN**  
 LEVEL 1, 193 FERRY ROAD SOUTHPORT QLD 4215 AUSTRALIA  
 T 07 5558 4200 consult@sedgman.com www.sedgman.com/sedgman-consulting

TITLE  
**STORMWATER CATCHMENT PLAN**

TASK	BY	INITIAL	DATE	APPROVED	RPEQ No
REVIEW	S.S.		19.12.16		
DESIGN	K.E.		09.12.16		
DRAWN	M.G.		09.12.16		

DRAWING NUMBER: **A441-C-16B-0400** REVISION: **AC**

REV	DESCRIPTION	DRAWN	DATE
AC	AS ONSTRUCTED	H.H.	03.11.17
B	UPDATED EXISTING SURVEY	G.S.	23.05.17
A	ORIGINAL ISSUE	M.G.	09.12.16



**STRUCTURE CO-ORDINATES**

**STRUCTURE NAME**

**STRUCTURE DESCRIPTION**

**STAGE 16B**

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2. I certify that the works have been constructed to my satisfaction and in accordance with the development approval, the approved drawings, the Logan Planning Scheme 2015 / Beaudesert Shire Planning Scheme 2007 and any relevant planning scheme policies and standard specifications.

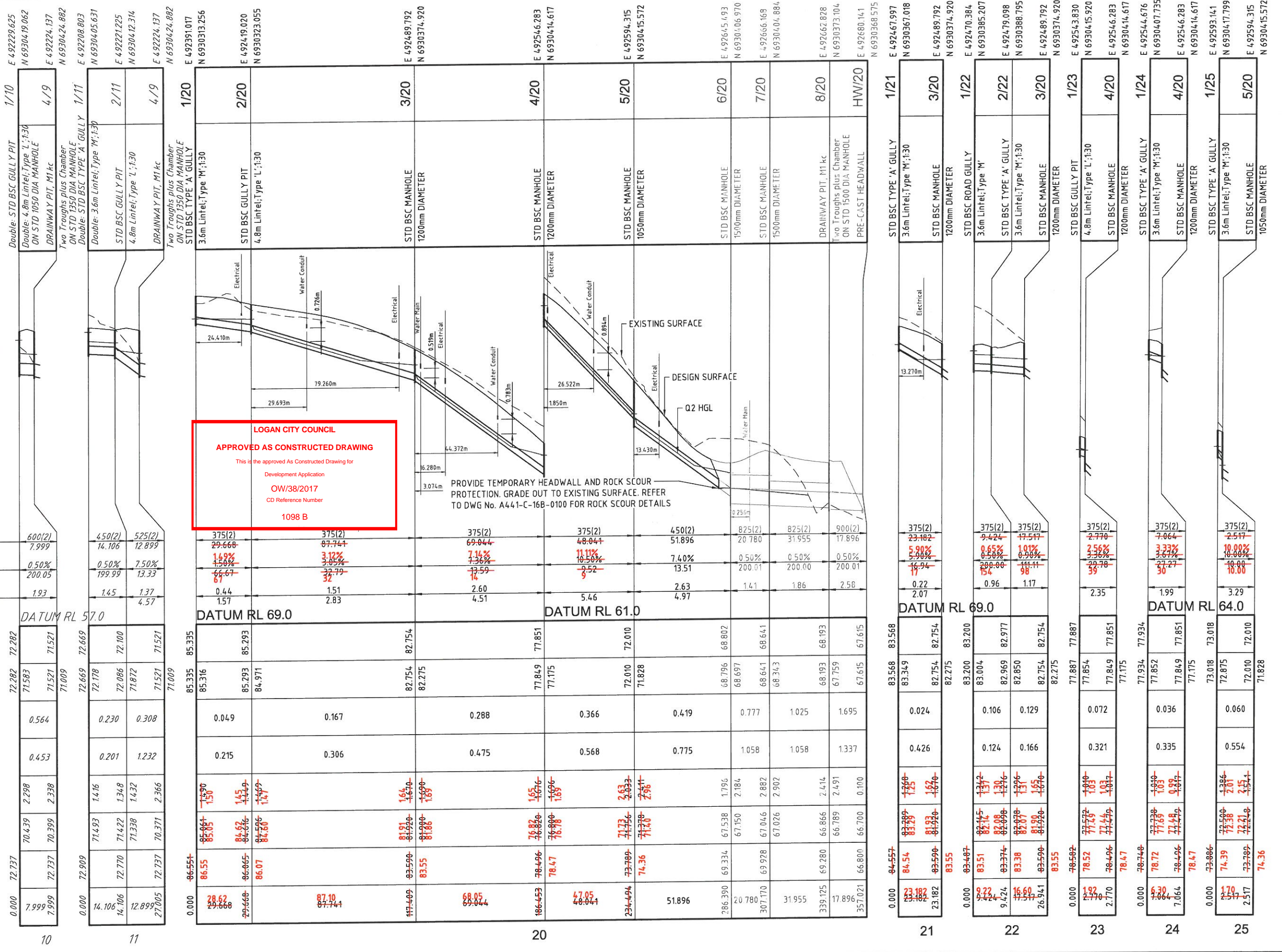
3. I certify the approved drawings have been carefully compared with the works site as to line, levels and dimensions, and this drawing has been accurately amended in all respects as to constitute a true record of the works.

Project Name: Spring Mountain Estate Stage 16B  
 Company: PEET PTY LTD  
 Consultant: Sedgman Consulting  
 RPEQ/CPEng Membership No. 6554  
 Application Number: OW/38/2017

Signature: *[Signature]*  
 Date: 7/12/17

PIPE SIZE (mm Class)	600(2)
PIPE LENGTH (m)	7.999
PIPE GRADE %	0.50%
PIPE SLOPE 1 in X	200.05
FULL PIPE FLOW VELOCITY (m/s)	1.93
PART FULL FLOW VELOCITY (m/s)	

WATER LEVEL IN STRUCTURE	
HYDRAULIC GRADE LEVEL	
PIPE FLOW (Cumecs)	
PIPE CAPACITY AT GRADE (Cumecs)	
DEPTH TO INVERT	
INVERT LEVEL OF DRAIN	
DESIGN SURFACE LEVEL	
RUNNING CHAINAGE	



**LOGAN CITY COUNCIL**  
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TASK	BY	INITIAL	DATE	APPROVED	RPEQ No																						
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DRAWN	M.G.		09.12.16																								



DESIGN ARI	STRUCTURE No.	DRAIN SECTION	SUB-CATCHMENTS CONTRIBUTING	TIME	SUB-CATCHMENT RUNOFF										INLET DESIGN										DRAIN DESIGN										HEADLOSSES										PART FULL										DESIGN LEVELS									
					tc	I	C10	C	A	CxA	+CA	Q	Qg	Qb	tc	I	+CA	Qt	Qm	Qs	Qp	L	S	V	T	V2/Zg	Ku	hu	Kl	hl	Kw	hw	Sf	hf	Vp	OBVERT LEVELS	DRAIN SECTION H.G.L.	UPSTREAM H.G.L.	LAT. H.G.L.	W.S.E.	SURFACE OR K&C INVERT LEVEL	STRUCTURE No.																						
2	100	1/20	1/20	1/20	7.50	127	0.75	0.187	0.140	0.187	4.9	132	132	904	83	49	29.668	150	375(2)	0.44	0.49	0.010	1.00	0.019	Upstream HGL 85.436 below outlet pipe obv 85.436 Set Kp no 1	1.00	0.019	0.08	0.023	0.122	1.57	85.436	85.316	85.293	85.335	85.335	86.551	1/20																										
2	100	2/20	2/20	1/20,2/20 (1/21 x 0.2)	15.70	93	0.62	0.872	0.541	0.768	14.0	403	403	904	347	167	87.741	3.05	375(2)	1.51	0.97	0.116	2.77	0.322	2.77	0.322	0.91	0.796	0.198	2.83	84.971	84.971	85.293	85.293	85.293	86.065	2/20																											
2	100	1/22	1/22	1/22	6.10	137	0.62	0.448	0.278	0.394	106	301	301	106	106	9.424	106	0.50	375(2)	0.96	0.16	0.047	4.19	0.196	4.19	0.196	0.37	0.035	82.520	82.473	83.004	82.969	83.200	83.200	83.200	83.487	1/22																											
2	100	2/22	2/22	1/22,2/22	10.00	113	0.62	0.215	0.133	0.189	4.2	120	120	369	84.9	24.0	17.517	0.90	375(2)	1.17	0.25	0.070	1.71	0.119	Interval val for S/Do 2.40 Kw 1.82 CHART 42 S/Do 2.5 K0 1.25 K0.5 1.82 K 1.66 S/Do 2.0 K0 1.35 K0.5 2.14 K 1.89 Interpolated for S/Do 2.40 Kw 1.71	1.82	0.127	0.55	0.096	82.453	82.295	82.754	82.969	82.977	83.374	2/22																												
2	100	1/21	1/21	1/21	10.80	109	0.62	0.130	0.080	0.114	74	24	24	70	1369	46	23.182	5.90	375(2)	0.22	0.39	0.002	1.00	0.219	Upstream HGL 83.568 below outlet pipe obv 83.664 Set Kp no 1	1.00	0.219	0.02	0.004	0.060	2.07	83.664	83.349	83.568	83.568	84.557	1/21																											
2	100	3/20	3/20	1/20,2/20,1/22,2/22,1/21	11.80	105	0.62	0.459	0.284	0.404	83	239	239	1596	557	288	69.044	7.36	375(2)	2.60	0.44	0.345	1.39	0.479	Eqv 2/20 & 1/21 and 2/22 Vel1 1.342 Vel2 0.944 Eq Dia 552 Angle 211 Flow 0.288 CHART 50 Du/D0 1.47 alpha 0 K'w 0.05 Vu 1.20 WSE 0.34 Ku 0.98 Kw 0.99 Interpolated Ku= 1.39 Kw= 1.39	1.39	0.479	2.69	1.860	0.211	4.51	82.275	82.275	82.754	82.754	83.590	3/20																											
2	100	1/23	1/23	1/23	11.80	105	0.62	0.459	0.284	0.404	83	239	239	1596	557	288	69.044	7.36	375(2)	0.65	0.05	0.022	1.00	0.033	Upstream HGL 77.887 below outlet pipe obv 77.947 Set Kp no 1	1.00	0.033	0.17	0.005	0.121	2.35	77.947	77.854	77.887	77.887	78.582	1/23																											
2	100	1/24	1/24	1/24	6.30	135	0.75	0.095	0.071	0.095	27	36	36	2039	36	36	7.064	3.67	375(2)	0.33	0.12	0.006	1.00	0.082	Upstream HGL 77.934 below outlet pipe obv 78.113 Set Kp no 1	1.00	0.082	0.04	0.003	0.083	1.59	78.113	77.854	77.934	77.934	78.748	1/24																											
2	100	4/20	4/20	1/20,2/20,1/22,2/22,1/21,1/23,1/24	17.11	89	1.527	1.251	1.087	2039	721	366	48.041	10.50	375(2)	3.31	0.24	0.558	1.21	0.674	0.058	1.21	0.674	Dhv/Div 1.1 Dhv/Do 1.08 Dhv/Do 0.83 H 2.36 Low vel latr 1/23 Div 375 Qlv 0.061 Div/Do 1.00 Qlv/Do 0.17 L -0.02 H-L 2.38 No grate flow H-L -0.2 -2.18 K'w above for stepped pipes as grate flow grate flow decreased by 0.051 from 1/23 grate flow decreased by 0.024 from 1/24	1.21	0.676	4.36	2.097	0.219	5.46	77.175	77.175	77.849	77.849	77.851	78.496	4/20																											
2	100	1/25	1/25	1/25	12.90	101	0.62	0.199	0.283	161	2069	101	60	2.510	10.00	375(2)	0.54	0.04	0.015	9.65	0.143	0.015	9.65	0.143	Upstream HGL 72.875 below outlet pipe obv 72.875 Set Kp no 1	9.65	0.143	0.12	0.003	0.083	3.29	72.875	72.875	73.018	73.018	73.886	1/25																											
2	100	5/20	5/20	1/20 to 1/24, 1/25	17.35	89	1.726	1.224	2092	805	419	51896	7.40	450(2)	2.63	0.33	0.353	0.51	0.182	0.353	0.51	0.182	0.182	2.16	1.122	0.236	4.97	71.828	71.828	72.010	72.010	73.789	5/20																															
2	100	1/11	1/11	1/11	17.20	89	0.917	1.302	655	820	425	230	14.106	0.50	450(2)	1.45	0.16	0.107	4.58	0.491	0.107	4.58	0.491	Upstream HGL 71.872 below outlet pipe obv 71.872 Set Kp no 1	4.58	0.491	0.65	0.092	71.943	71.872	72.086	72.669	72.669	72.909	1/11																													
2	100	2/11	2/11	1/11,2/11	15.40	94	1.174	1.667	833	562	526	308	12.899	7.50	525(2)	1.37	0.16	0.096	2.24	0.214	0.096	2.24	0.214	Interp val for S/Do 1.43 Kw 2.38 CHART 38 S/Do 2.0 K0 2.07 K0.5 1.83 K 1.93 S/Do 1.5 K0 2.44 K0.5 2.27 K 2.20 Interp val for S/Do 1.43 Kw 2.24	2.38	0.228	0.47	0.060	0.102	4.57	71.872	71.872	72.086	72.100	72.770	2/11																												
2	100	1/10	1/10	1/10	14.60	96	2.103	2.965	1617	564	7.999	0.50	600(2)	1.93	0.07	0.190	3.68	0.699	0.190	3.68	0.699	0.190	3.68	0.699	Upstream HGL 71.049 below outlet pipe obv 71.049 Set Kp no 1	3.68	0.699	0.77	0.062	71.049	71.049	71.521	72.282	72.282	72.737	1/10																												

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**STAGE 16B**

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 Application Number: OW/38/2017

Signature: *[Signature]*  
 Date: *[Date]*

**CALCULATION TABLE**  
 Q2 MINOR Q100 MAJOR

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CLIENT: <b>SPRING MOUNTAIN ESTATE STAGE 16B</b> PROJECT: <b>AS CONSTRUCTED</b>	SCALE: (AT ORIGINAL SHEET SIZE) ORIGINAL SHEET SIZE: <b>A1</b>	LEVEL 1, 193 FERRY ROAD SOUTHPORT QLD 4215 AUSTRALIA T 07 5558 4200 consult@sedgman.com www.sedgman.com/sedgman-consulting	TASK: BY INITIAL DATE APPROVED RPEQ No REVIEW: S.S. 19.12.16 DRAWING NUMBER REVISION DESIGN: K.E. 09.12.16 A441-C-16B-0402 DRAWN: M.G. 09.12.16
AS CONSTRUCTED H.H. 03.11.17 UPDATED EXISTING SURVEY G.S. 23.05.17 ORIGINAL ISSUE M.G. 09.12.16	<b>N/A</b>	<b>AS CONSTRUCTED</b>	<b>AC</b>