

DA ISSUE
THIS DRAWING IS NOT FOR CONSTRUCTION

RPD:
 LOT 1 & ON RP97821
 PARISH OF BRIBIE
 COUNCIL: SUNSHINE COAST
 SITE AREA: 1672m²

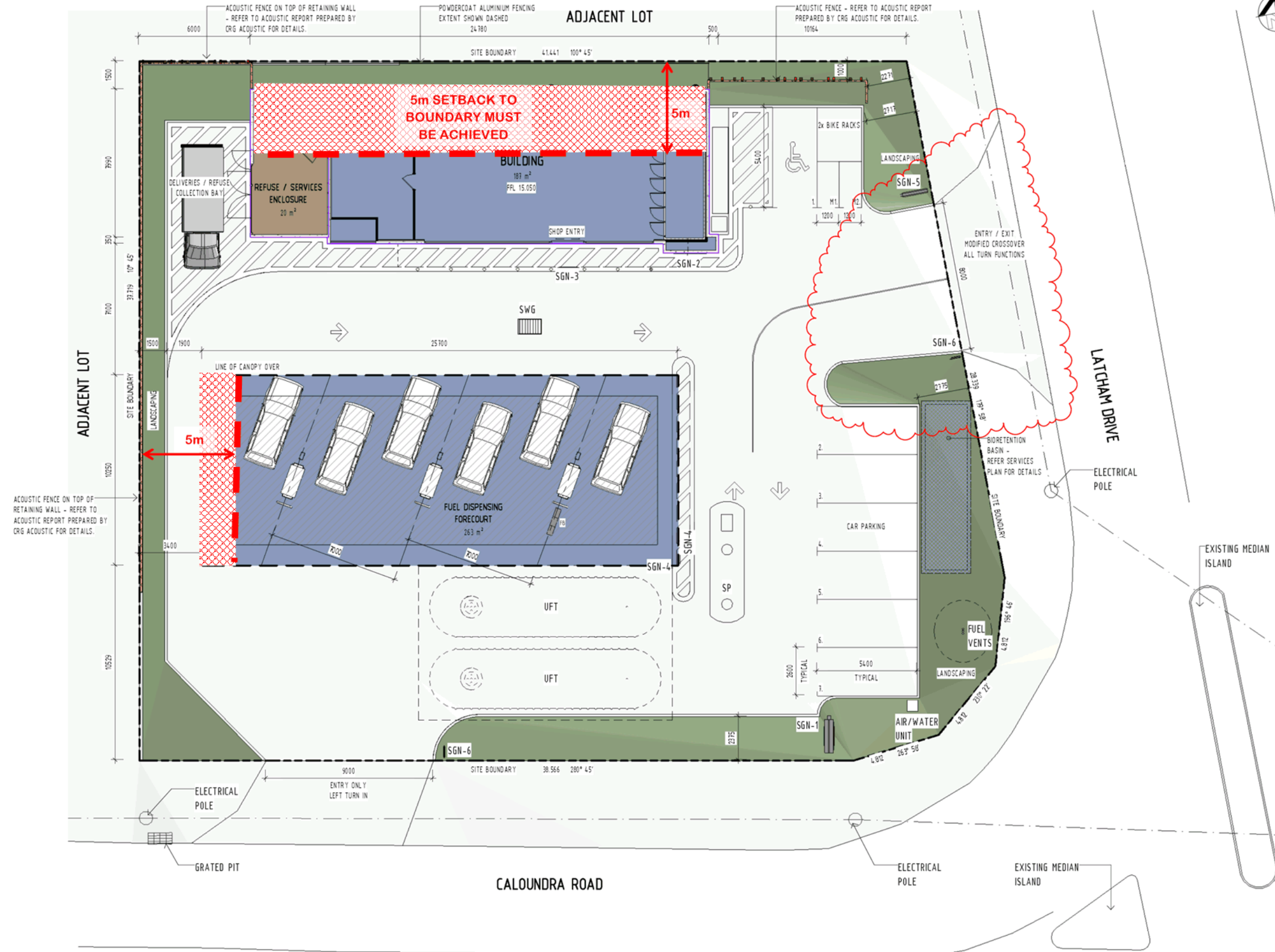
DEVELOPMENT ASSESSMENT:

BUILDING AREAS:
 - SERVICE STATION - 187m²
 - FUEL DISPENSING FORECOURT - 263m²
 - REFUSE ENCLOSURE - 20m²

TOTAL AREA: - 207m²
 (EXCLUDED FUEL DISPENSING FORECOURT)

CAR PARKING:
 TOTAL CAR PARKING REQUIRED: - 8
 (1 SPACE/25m² OF GFA, 187m² = 7.5 SPACES)
 TOTAL CAR PARKING PROVIDED: - 7
 TOTAL MOTORBIKE PARKING PROVIDED: - 2

LEGEND	
FB	FILL BOX - REFER FUEL ENG. FOR DETAIL
SGN-1	MAIN PYLON SIGNAGE TO FUEL RETAILER'S STANDARDS
SGN-2	BLADE SIGNAGE TO FUEL RETAILER'S STANDARDS
SGN-3	FASCIA SIGNAGE TO FUEL RETAILER'S STANDARDS
SGN-4	FASCIA SIGNAGE TO FUEL RETAILER'S STANDARDS
SGN-5	PRICE BOARD SIGNAGE TO FUEL RETAILER'S STANDARDS
SGN-6	DIRECTIONAL SIGNAGE TO FUEL RETAILER'S STANDARDS
SP	SPELL PURCEPTOR - REFER CIVIL ENG. FOR DETAIL
SWG	STORMWATER GULLY - REFER CIVIL ENG. FOR DETAIL
UFT	UNDERGROUND FUEL TANK



CONSULTING ENGINEER



- commercial / industrial / retail
- fast food restaurant design
- travel centre / service stations

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Revision and approvals				
Rev	Date	By	Description	Appr
P2	18/11/15	JW	TOWN PLANNING COMMENTS	
P3	20/11/15	JW	PRELIMINARY ISSUE	
P4	25/11/15	JW	PRELIMINARY ISSUE	
A	08/12/15	JW	ISSUE FOR DEVELOPMENT APPROVAL	
B	19/02/16	JW	RESPONSE TO COUNCIL INFORMATION REQUEST	
C	29/02/16	JW	RESPONSE TO COUNCIL INFORMATION REQUEST	

Project Description
PROPOSED SERVICES STATION
55 CALOUNDRA RD, CALOUNDRA

Scale (A1)
 1:100

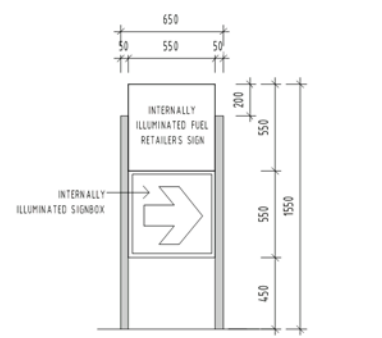
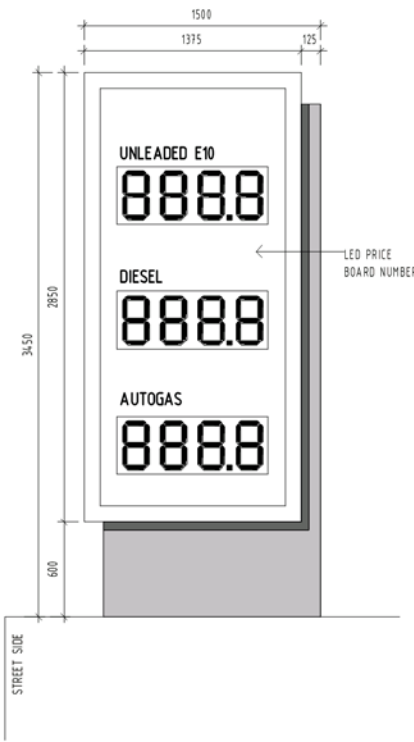
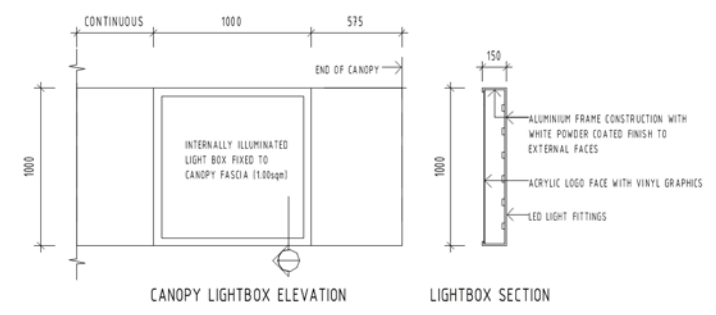
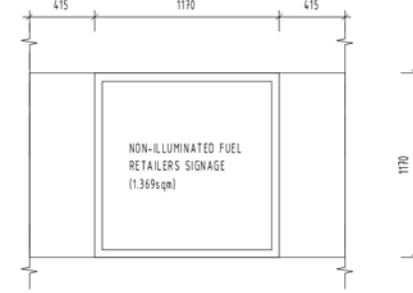
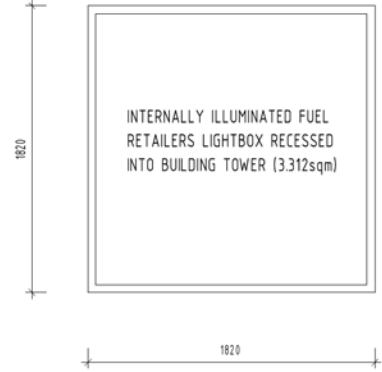
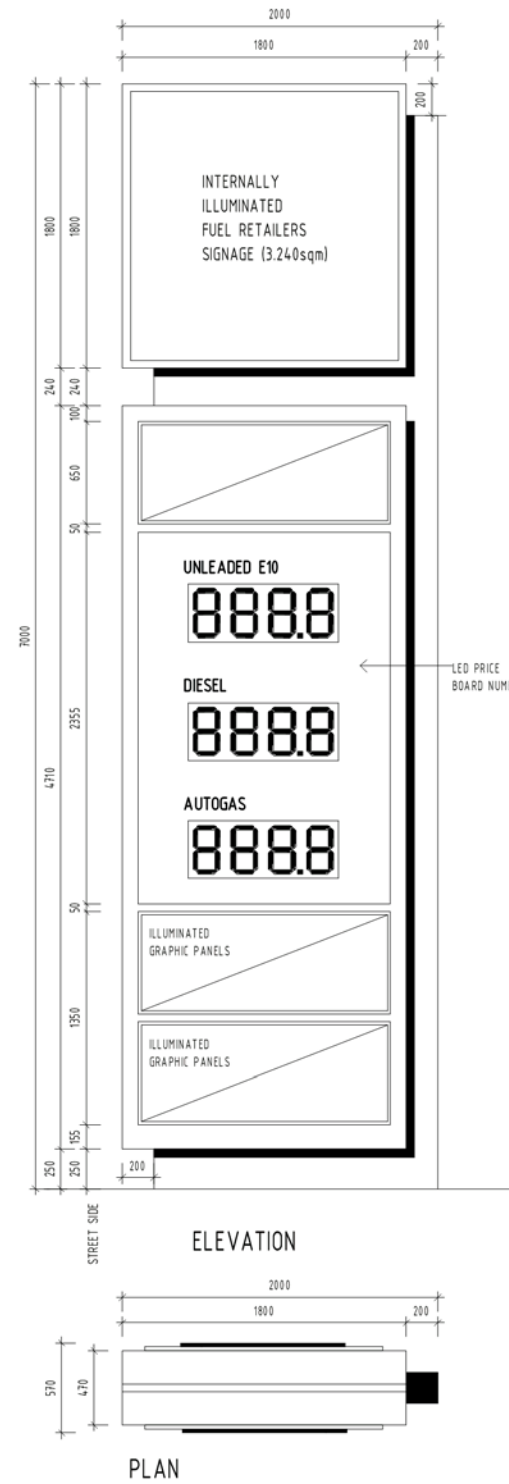
Date
 NOV - 2015

Drawing Title
PROP. SITE PLAN

Job Number - Drawing Number
 15064

Revision
 D

DA ISSUE
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 3. ANY DISCREPANCIES IN SCHEDULES SHOULD BE IDENTIFIED TO THE AUTHOR NOTED.
 4. ALL AREAS ARE GROSS AREAS, UNLESS NOTED OTHERWISE.

CONSULTING ENGINEER

verve Building Design & Concepts
 PH 0412 354 763
 257 BUNYA ROAD, ARANA HILLS, QLD, 4454
 E: gavin@verved.com.au

commercial / industrial / retail
 fast food restaurant design
 travel centre / service stations
 project concept to completion

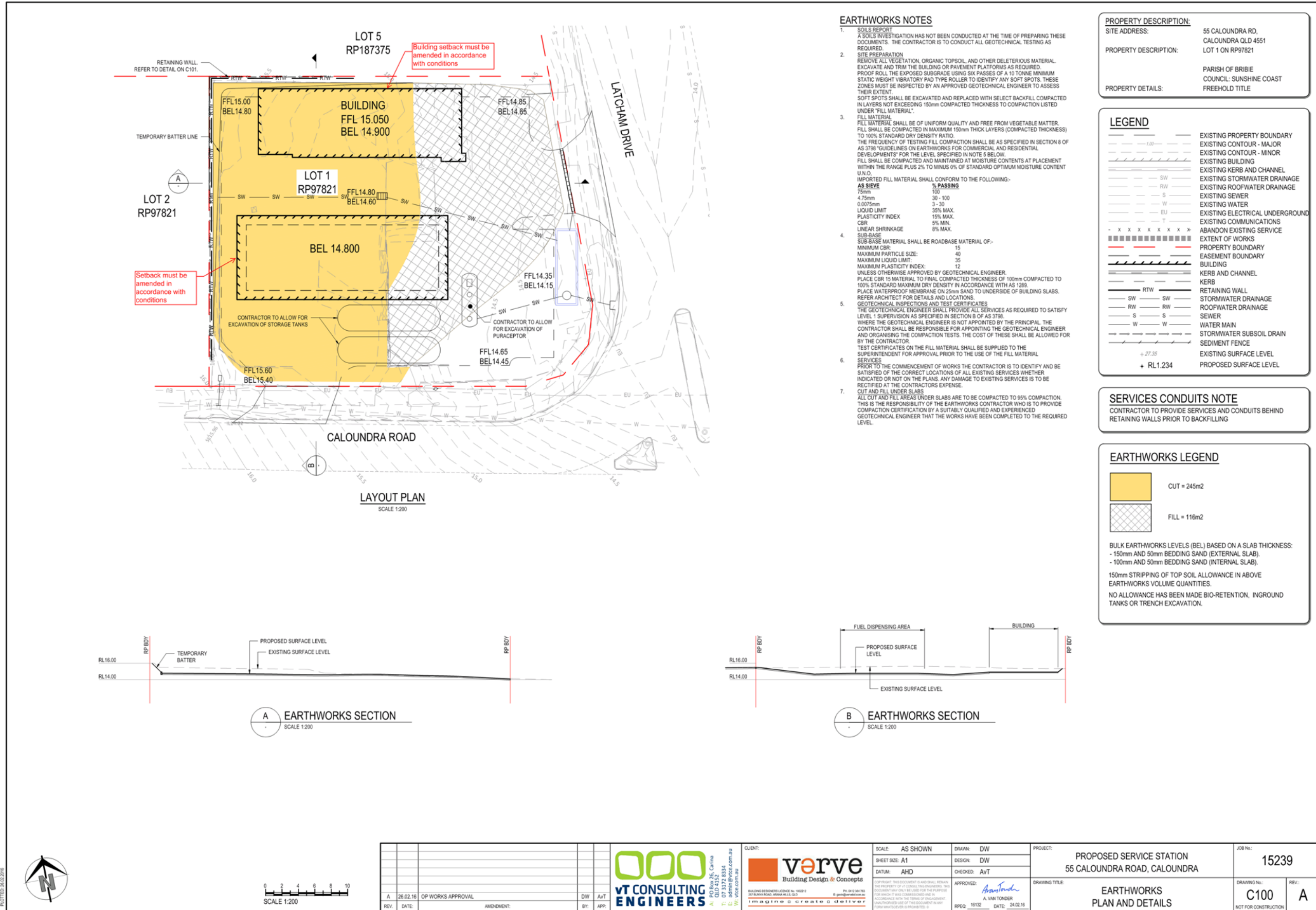
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Revision and approvals				
Rev	Date	By	Description	Appr
P1	20.11.15	JW	PRELIMINARY ISSUE	
P2	25.11.15	JW	PRELIMINARY ISSUE	
A	08.12.15	JW	ISSUE FOR DEVELOPMENT APPROVAL	

Project Description
PROPOSED SERVICES STATION
 55 CALOUNDRA RD, CALOUNDRA

Scale: 1:20
 Date: NOV - 2015
 Drawn: JW
 Approved By: GN

Drawing Title SIGNAGE DETAILS	
Job Number - Drawing Number 15061 DA10	Revision A



EARTHWORKS NOTES

- SOILS REPORT**
 A SOILS INVESTIGATION HAS NOT BEEN CONDUCTED AT THE TIME OF PREPARING THESE DOCUMENTS. THE CONTRACTOR IS TO CONDUCT ALL GEOTECHNICAL TESTING AS REQUIRED.
- SITE PREPARATION**
 REMOVE ALL VEGETATION, ORGANIC TOPSOIL, AND OTHER DELETERIOUS MATERIAL. EXCAVATE AND TRIM THE BUILDING OR PAVEMENT PLATFORMS AS REQUIRED. PROOF ROLL THE EXPOSED SUBGRADE USING SIX PASSES OF A 10 TONNE MINIMUM STATIC WEIGHT VIBRATORY PAD TYPE ROLLER TO IDENTIFY ANY SOFT SPOTS. THESE ZONES MUST BE INSPECTED BY AN APPROVED GEOTECHNICAL ENGINEER TO ASSESS THEIR EXTENT.
 SOFT SPOTS SHALL BE EXCAVATED AND REPLACED WITH SELECT BACKFILL COMPACTED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS TO COMPACTION LISTED UNDER 'FILL MATERIAL'.
- FILL MATERIAL**
 FILL MATERIAL SHALL BE OF UNIFORM QUALITY AND FREE FROM VEGETABLE MATTER. FILL SHALL BE COMPACTED IN MAXIMUM 150mm THICK LAYERS (COMPACTED THICKNESS) TO 100% STANDARD DRY DENSITY RATIO.
 THE FREQUENCY OF TESTING FILL COMPACTION SHALL BE AS SPECIFIED IN SECTION 8 OF AS 3788 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS' FOR THE LEVEL SPECIFIED IN NOTE 5 BELOW.
 FILL SHALL BE COMPACTED AND MAINTAINED AT MOISTURE CONTENTS AT PLACEMENT WITHIN THE RANGE PLUS 2% TO MINUS 0% OF STANDARD OPTIMUM MOISTURE CONTENT U.N.O.
 IMPORTED FILL MATERIAL SHALL CONFORM TO THE FOLLOWING:-

AS SIEVE	% PASSING
75mm	100
4.75mm	30 - 100
0.075mm	3 - 30
LIQUID LIMIT	30% MAX.
PLASTICITY INDEX	15% MAX.
CBR	5% MIN.
LINEAR SHRINKAGE	8% MAX.

 SUB-BASE
 SUB-BASE MATERIAL SHALL BE ROADBASE MATERIAL OF:-
 MINIMUM CBR: 15
 MAXIMUM PARTICLE SIZE: 40
 MAXIMUM LIQUID LIMIT: 25
 MAXIMUM PLASTICITY INDEX: 12
 UNLESS OTHERWISE APPROVED BY GEOTECHNICAL ENGINEER.
 PLACE CBR 15 MATERIAL TO FINAL COMPACTED THICKNESS OF 100mm COMPACTED TO 100% STANDARD DRY DENSITY IN ACCORDANCE WITH AS 1289.
 PLACE WATERPROOF MEMBRANE ON 25mm SAND TO UNDERSIDE OF BUILDING SLABS. REFER ARCHITECT FOR DETAILS AND LOCATIONS.
- GEOTECHNICAL INSPECTIONS AND TEST CERTIFICATES**
 THE GEOTECHNICAL ENGINEER SHALL PROVIDE ALL SERVICES AS REQUIRED TO SATISFY LEVEL 1 SUPERVISION AS SPECIFIED IN SECTION 8 OF AS 3788.
 WHERE THE GEOTECHNICAL ENGINEER IS NOT APPOINTED BY THE PRINCIPAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPOINTING THE GEOTECHNICAL ENGINEER AND ORGANISING THE COMPACTION TESTS. THE COST OF THESE SHALL BE ALLOWED FOR BY THE CONTRACTOR.
 TEST CERTIFICATES ON THE FILL MATERIAL SHALL BE SUPPLIED TO THE SUPERINTENDENT FOR APPROVAL PRIOR TO THE USE OF THE FILL MATERIAL.
- SERVICES**
 PRIOR TO THE COMMENCEMENT OF WORKS THE CONTRACTOR IS TO IDENTIFY AND BE SATISFIED OF THE CORRECT LOCATIONS OF ALL EXISTING SERVICES WHETHER INDICATED OR NOT ON THE PLANS. ANY DAMAGE TO EXISTING SERVICES IS TO BE RECTIFIED AT THE CONTRACTORS EXPENSE.
- CUT AND FILL UNDER SLABS**
 ALL CUT AND FILL AREAS UNDER SLABS ARE TO BE COMPACTED TO 95% COMPACTION. THIS IS THE RESPONSIBILITY OF THE EARTHWORKS CONTRACTOR WHO IS TO PROVIDE COMPACTION CERTIFICATION BY A SUITABLY QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER THAT THE WORKS HAVE BEEN COMPLETED TO THE REQUIRED LEVEL.

PROPERTY DESCRIPTION:
 SITE ADDRESS: 55 CALOUNDR A RD, CALOUNDR A QLD 4551
 LOT 1 ON RP97821
 PARISH OF BRIBIE
 COUNCIL: SUNSHINE COAST
 FREEHOLD TITLE

LEGEND

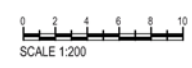
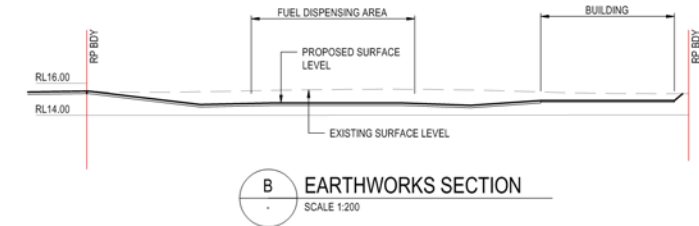
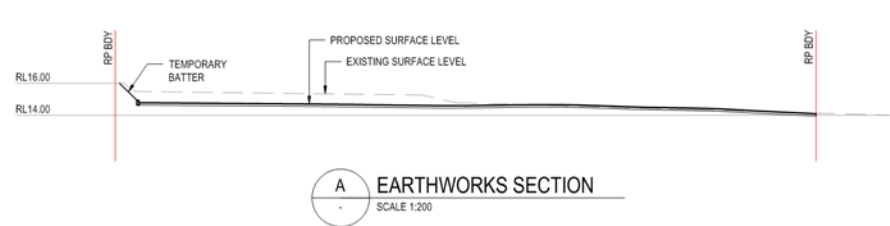
---	EXISTING PROPERTY BOUNDARY
---	EXISTING CONTOUR - MAJOR
---	EXISTING CONTOUR - MINOR
---	EXISTING BUILDING
---	EXISTING KERB AND CHANNEL
---	EXISTING STORMWATER DRAINAGE
---	EXISTING ROOFWATER DRAINAGE
---	EXISTING SEWER
---	EXISTING WATER
---	EXISTING ELECTRICAL UNDERGROUND
---	EXISTING COMMUNICATIONS
---	ABANDON EXISTING SERVICE
---	EXTENT OF WORKS
---	PROPERTY BOUNDARY
---	EASEMENT BOUNDARY
---	BUILDING
---	KERB AND CHANNEL
---	KERB
---	RETAINING WALL
---	STORMWATER DRAINAGE
---	ROOFWATER DRAINAGE
---	SEWER
---	WATER MAIN
---	STORMWATER SUBSOIL DRAIN
---	SEDIMENT FENCE
---	EXISTING SURFACE LEVEL
---	PROPOSED SURFACE LEVEL

SERVICES CONDUITS NOTE
 CONTRACTOR TO PROVIDE SERVICES AND CONDUITS BEHIND RETAINING WALLS PRIOR TO BACKFILLING

EARTHWORKS LEGEND

[Yellow Box]	CUT = 245m ²
[Cross-hatched Box]	FILL = 116m ²

BULK EARTHWORKS LEVELS (BEL) BASED ON A SLAB THICKNESS:
 - 150mm AND 50mm BEDDING SAND (EXTERNAL SLAB),
 - 100mm AND 50mm BEDDING SAND (INTERNAL SLAB).
 150mm STRIPPING OF TOP SOIL ALLOWANCE IN ABOVE EARTHWORKS VOLUME QUANTITIES.
 NO ALLOWANCE HAS BEEN MADE BIO-RETENTION, INGROUNDED TANKS OR TRENCH EXCAVATION.



REV	DATE	DESCRIPTION	BY	APP
A	26.02.16	OP WORKS APPROVAL	DW	AVT

VT CONSULTING ENGINEERS
 PO Box 26, Carina
 QLD 4152
 T: 07 5533 3333
 E: admin@vtce.com.au
 W: vtce.com.au

verve
 Building Design & Concepts
 BUILDING DESIGNER LICENSE NO. 100010
 307 BALNA ROAD, ARANA HILLS QLD
 PH: 0413 84 161
 E: gordon@verve.com.au
 imagine create deliver

SCALE: AS SHOWN	DRAWN: DW
SHEET SIZE: A1	DESIGN: DW
DATUM: AHD	CHECKED: AVT
APPROVED: <i>[Signature]</i>	DATE: 24.02.16

PROJECT: PROPOSED SERVICE STATION
 55 CALOUNDR A ROAD, CALOUNDR A

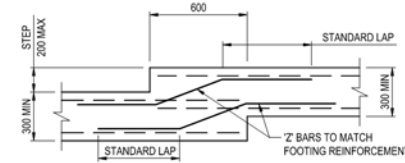
JOB No.: 15239
 DRAWING No.: C100
 REV: A

EARTHWORKS
 PLAN AND DETAILS

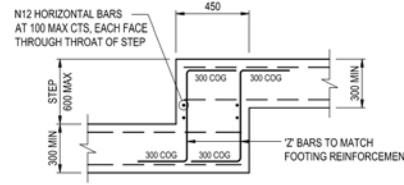
NOT FOR CONSTRUCTION

PROPERTY DESCRIPTION:	
SITE ADDRESS:	55 CALOUNDRA RD. CALOUNDRA QLD 4551
PROPERTY DESCRIPTION:	LOT 1 ON RP97821
PROPERTY DETAILS:	PARISH OF BRIBIE COUNCIL: SUNSHINE COAST FREEHOLD TITLE

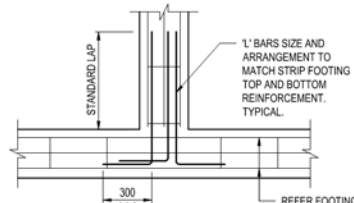
BAR DIAMETER (mm)	LAP LENGTH (mm)
N10	400
N12	500
N16	750
N20	1000



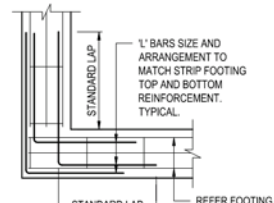
RETAINING WALL STEP FOOTING DETAIL
(200 MAX STEP IN FOOTING)
SCALE 1:20



RETAINING WALL STEP FOOTING DETAIL
(400 MAX STEP IN FOOTING)
SCALE 1:20

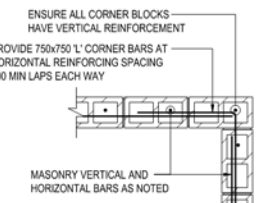


INTERNAL JUNCTION

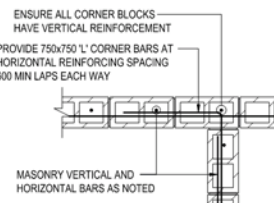


EXTERNAL CORNER

STRIP FOOTING JUNCTION DETAILS
SCALE 1:20

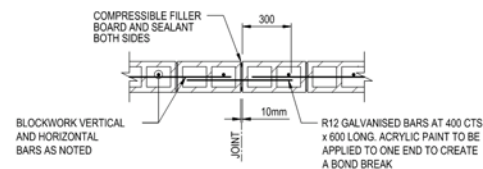


PLAN - CORNER



PLAN - INTERSECTION

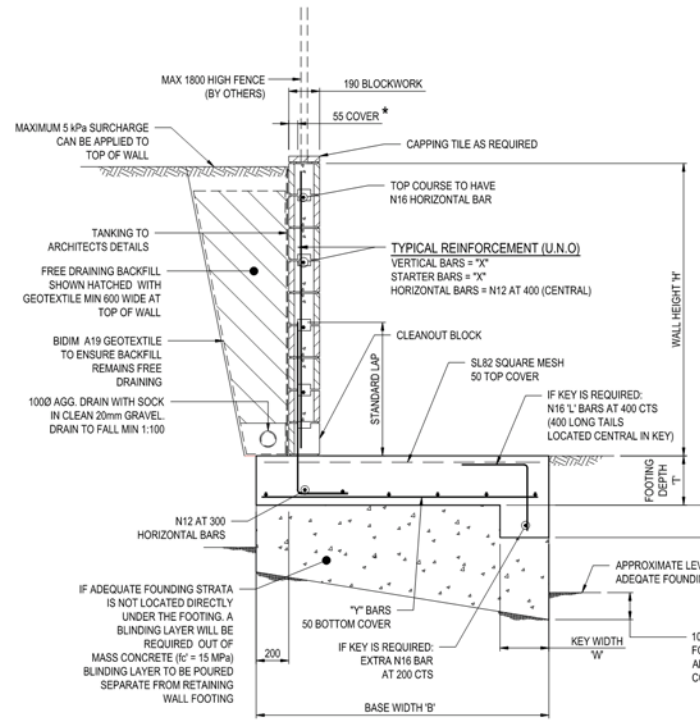
TYPICAL BLOCKWORK INTERSECTION DETAILS
SCALE 1:20



VCJ - VERTICAL CONTROL JOINT IN RETAINING WALL
REFER PLAN FOR LOCATIONS - LOCATED AT 8 METRE STRAIGHT RUN
SCALE 1:20

RETAINING WALL NOTES:

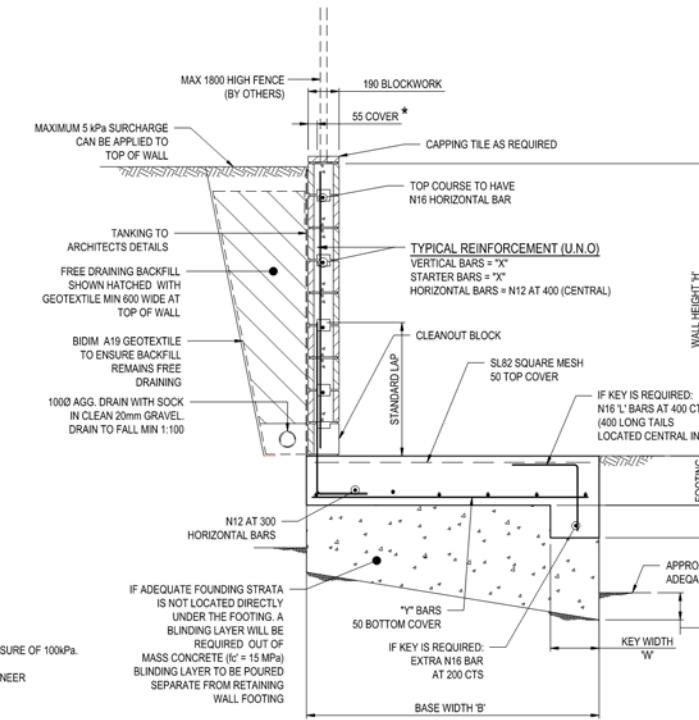
- ALL BARS IN BLOCKWORK TO HAVE 55mm COVER FROM THE RETAINED EARTH FACE.
- RETAINING WALLS HAVE BEEN DESIGNED FOR A MINIMUM SAFE ALLOWABLE BEARING CAPACITY OF FOUNDING MATERIAL OF 100 kPa DIRECTLY UNDER THE FOOTING THAT SHALL BE CONFIRMED ONSITE BY A RECOGNISED GEOTECHNICAL ENGINEER PRIOR TO CASTING OF CONCRETE BUILDER TO COORDINATE FOOTING INSPECTION WITH BOTH THE GEOTECHNICAL ENGINEER AND STRUCTURAL ENGINEER.
- IT IS CRITICAL TO CONSTRUCT BLOCK WALLS WITH THE CORRECT COVER TO REINFORCEMENT. STARTER BAR LOCATIONS ARE TO BE CONFIRMED BY SURVEY PRIOR TO CONCRETING AND SECURELY TIED IN THEIR CORRECT POSITION.
- LONGITUDINAL DRAINS SHALL BE 300mm x 50mm STRIP DRAINS OR 100mm DIAMETER uPVC SLOTTED AGRICULTURAL PIPE ENCASED IN AN APPROVED GEOFABRIC DRAINS SHALL OUTLET TO LOCATIONS APPROVED BY THE LOCAL AUTHORITY AT 25m MAXIMUM INTERVALS AND SHALL BE LAID AT A LONGITUDINAL GRADE OF 1 IN 100 MAXIMUM. WHERE SUCH OUTLETS ARE NOT ACHIEVABLE, WEEPHOLES SHALL BE PROVIDED AS SPECIFIED. THE INVERTS OF DRAINS SHALL MATCH WEEPHOLE INVERTS TO ALLOW DIRECT DISCHARGE VIA THE WEEPHOLES. ALL CONNECTIONS SHALL BE MADE USING STANDARD MANUFACTURERS FITTINGS.
- WEEPHOLES WHERE REQUIRED SHALL BE A VERTICAL WALL JOINT VOID OF MORTAR ON THE LOWER HALF OF THE JOINT (100mm HIGH MIN), SPACED AT 1200mm MAXIMUM. POSITIONED 1 IN 250 MAXIMUM. WHERE SUCH OUTLETS ARE NOT ACHIEVABLE, WEEPHOLES AT A CONSTANT HEIGHT OF APPROXIMATELY 100mm ABOVE FINISHED GROUND LEVELS SHALL BE PROVIDED. PROVISIONS SHALL BE MADE TO REMOVE ANY WEEPHOLE DISCHARGE FROM FACE OF WALLS.
- A FILTER DRAINAGE LAYER SHALL BE PROVIDED FOR THE FULL HEIGHT OF AND LENGTH OF WALLS AND SHALL BE AN APPROVED CELLULAR DRAINAGE SYSTEM WITH GEOFABRIC FIXED TO ONE SIDE ADJACENT TO BACKFILL MATERIAL. ALTERNATIVELY A 300mm THICK LAYER OF PERMEABLE FILTER SAND/ GRAVEL MAY BE USED, SEPARATED FROM THE BACKFILL MATERIAL WITH AN APPROVED GEOFABRIC.
- BACKFILL SHALL BE FREE DRAINING, NON-PLASTIC, PREDOMINANTLY GRANULAR MATERIAL WITH A MINIMUM FRICTION ANGLE OF 30° AND 27° WHERE FOUNDING MATERIALS ARE SAND OR OTHER MATERIALS RESPECTIVELY.
- PROF WALLS WHERE NECESSARY TO ENSURE STABILITY. BACKFILL IS NOT TO BE PLACED BEHIND THE WALL UNTIL AT LEAST 7 DAYS AFTER WALL CONSTRUCTION AND CROUTING.
- THE MINIMUM SPECIFICATIONS FOR GEOFABRIC SHALL BE 'BIDIM A19'. ALTERNATIVES SHALL BE APPROVED BY THE SUPERVISING ENGINEER PRIOR TO THE CONSTRUCTION OF ANY WORKS. GEOFABRIC TO BE INSTALLED ON ONE SIDE ADJACENT TO RETAINED MATERIAL AND FREE DRAINING GRANULAR BACKFILL.
- ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH AS3700.
- ALL BLOCKS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 15MPa U.N.O. (REFER AS4455)
- ALL MORTAR SHALL BE GRADE M4 CLASSIFICATION IN REFERENCE TO AS3700. ALL MORTAR SHALL CONSIST OF PORTLAND CEMENT, HYDRATED LIME AND SAND IN THE PROPORTIONS OF 1:0.5:4.5 BY VOLUME RESPECTIVELY.
- MORTAR JOINT THICKNESS SHALL BE 10mm THICK WITH A TOLERANCE OF +3mm OR -3mm. FACE SHELLS SHALL BE FULLY BEDDED IN MORTAR.
- ELEMENT MAX SIZE AGGREGATE CONCRETE GRADE SLUMP
- BLOCK WORK 10mm 25 Mpa 230mm
- FOOTING 20mm 25 Mpa 100mm
- ALL BLOCKWORK CORES ARE TO BE FILLED WITH CONCRETE
- PLACE CONCRETE IN MAX 1500mm HIGH INCREMENTS AND FULLY VIBRATE OR ROD BEFORE PLACING THE NEXT 1500mm. CONTINUE TO ADEQUATELY ROD OR COMPACT EACH ADDITIONAL 1500mm LAYER SO THAT EACH SUCCEEDING LAYER IS BLENDED INTO THE PRECEDING ONE BY THE COMPACTION PROCESS.
- CHASES AND HOLES SHALL NOT BE MADE IN BLOCKWORK WITHOUT THE APPROVAL OF THE ENGINEER.
- PROVIDE CLEAN OUT HOLE AT BOTTOM OF ALL FILLED CORES
- CONTROL JOINTS IN BLOCKWORK TO BE LOCATED AT 8m CENTRES.
- PRIVATE RETAINING WALLS INCLUDING FOOTINGS ARE TO BE CONTAINED WHOLLY WITHIN PRIVATE PROPERTY AND SUBJECT SITE.
- RETAINING WALLS 1000mm OR HIGHER ARE TO HAVE A HAND RAIL INSTALLED TO ARCHITECTURAL DETAILS AND FOOTING SIZED FOR MIN 1200mm HIGH FENCE ABOVE WALL



NOTE:
 * STARTER BARS MUST HAVE THE SAME COVER AS THE VERTICAL BARS.
 ALL VERTICAL BARS TO HAVE 55mm COVER FROM SOIL FACE

WALL HEIGHT 'H'	HEIGHT OF 190 BLOCKS	BLOCKWORK 'X' BARS	FOOTING 'Y' BARS	FOOTING DEPTH 'T'	KEY DEPTH 'D'	KEY WIDTH 'W'	FOOTING WIDTH 'B'		
							WITHOUT FENCE	1200 MAX HIGH FENCE	1800 MAX HIGH FENCE
800	800	N12 - 400	N12 - 400	250	-	-	700	900	1100
1000	1000	N12 - 400	N12 - 400	250	-	-	850	1050	1250
1200	1200	N12 - 400	N12 - 400	250	-	-	1050	1150	1350
1400	1400	N16 - 400	N16 - 400	300	250	300	1150	1350	1500
1600	1600	N16 - 400	N16 - 400	300	250	300	1400	1500	1650
1800	1800	N16 - 200	N16 - 400	300	400	300	1550	1650	1800
2000	2000	N16 - 200	N16 - 200	300	400	300	1850	1900	2000

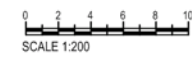
RTW DETAIL (800 TO 1400 HIGH MAX)
SCALE 1:20



NOTE:
 * STARTER BARS MUST HAVE THE SAME COVER AS THE VERTICAL BARS.
 ALL VERTICAL BARS TO HAVE 55mm COVER FROM SOIL FACE

WALL HEIGHT 'H'	HEIGHT OF 190 BLOCKS	BLOCKWORK 'X' BARS	FOOTING 'Y' BARS	FOOTING DEPTH 'T'	KEY DEPTH 'D'	KEY WIDTH 'W'	FOOTING WIDTH 'B'		
							WITHOUT FENCE	1200 MAX HIGH FENCE	1800 MAX HIGH FENCE
800	800	N12 - 400	N12 - 400	250	-	-	900	1200	1450
1000	1000	N12 - 400	N12 - 400	250	-	-	1100	1400	1600
1200	1200	N12 - 400	N12 - 400	250	-	-	1300	1550	1750
1400	1400	N16 - 400	N16 - 400	300	250	300	1500	1700	1800
1600	1600	N16 - 400	N16 - 400	300	250	300	1750	1900	2100
1800	1800	N16 - 200	N16 - 400	300	400	300	2000	2100	2300
2000	2000	N16 - 200	N16 - 200	300	400	300	2200	2350	2500

RTW DETAIL (800 TO 1400 HIGH MAX)
SCALE 1:20



REV.	DATE	DESCRIPTION	BY	APP.
A	26.02.16	OP WORKS APPROVAL	DW	AVT

VT CONSULTING ENGINEERS
 PO Box 26, Carina
 QLD 4152
 07 3172 8334
 www.vtce.com.au

verve
 Building Design & Concepts
 No. 462 3rd Fl
 217 BARRA ROAD, WARRA HILLS QLD
 07 5522 9999
 www.verve.com.au

SCALE: AS SHOWN	DRAWN: DW	PROJECT: PROPOSED SERVICE STATION 55 CALOUNDRA ROAD, CALOUNDRA	JOB No.: 15239
SHEET SIZE: A1	DESIGN: DW	DRAWING TITLE: RETAINING WALL DETAILS	DRAWING No.: C101
DATUM: AHD	CHECKED: AvT	APPROVED: <i>A. Van Tonder</i> A. VAN TONDER	REV.: NOT FOR CONSTRUCTION
DATE: 24.02.16	DATE: 24.02.16		