

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

19 DEC 2014

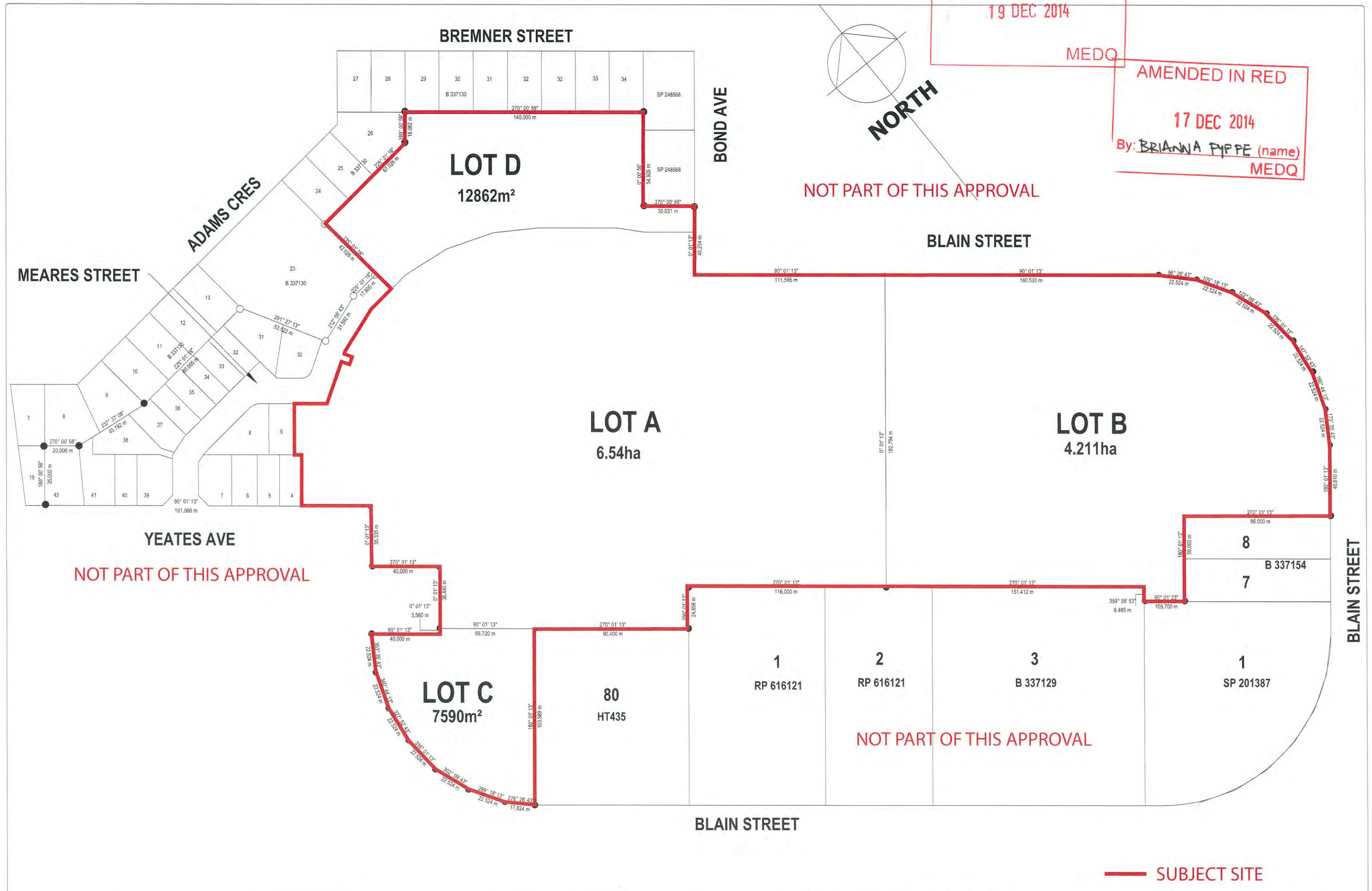
MEDQ

AMENDED IN RED

17 DEC 2014

By: BRIANNA PYFFE (name)
MEDQ

NOT PART OF THIS APPROVAL



— SUBJECT SITE

Rev.	Date	Revision Details	By	App.	Author	Client	Project
2	23.07.14	ISSUE FOR MCU & ROL	DFS				THE VILLAGE ON BLAIN
1	12.06.14	ISSUE FOR REVIEW	PW				



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Drawing Title	Drawn	Check	Drawing Scale	Page Size
PROPOSED MASTER LOTS FOR RE-SUBDIVISION OF LOT 100 ON SP255432	PW	12.06.14	1:1000	A1
			7109 - S002	2

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LEGEND

- Site Boundary
- Extent of proposed works (Stage 10)
- Existing drainage easement
- Open recreational space

Total site area - 12.77ha
Extension Stage 10 area - approx. 14,050m²

Total landscape area - approx. 7610m²
Usable landscape space - approx. 720m²

Refer to Landscape Plans for extent of proposed landscape works

A	FOR APPROVAL	2014-07-14	JC	GT
ISSUE	AMENDMENT	DATE	DATE	DRAWN CHKD

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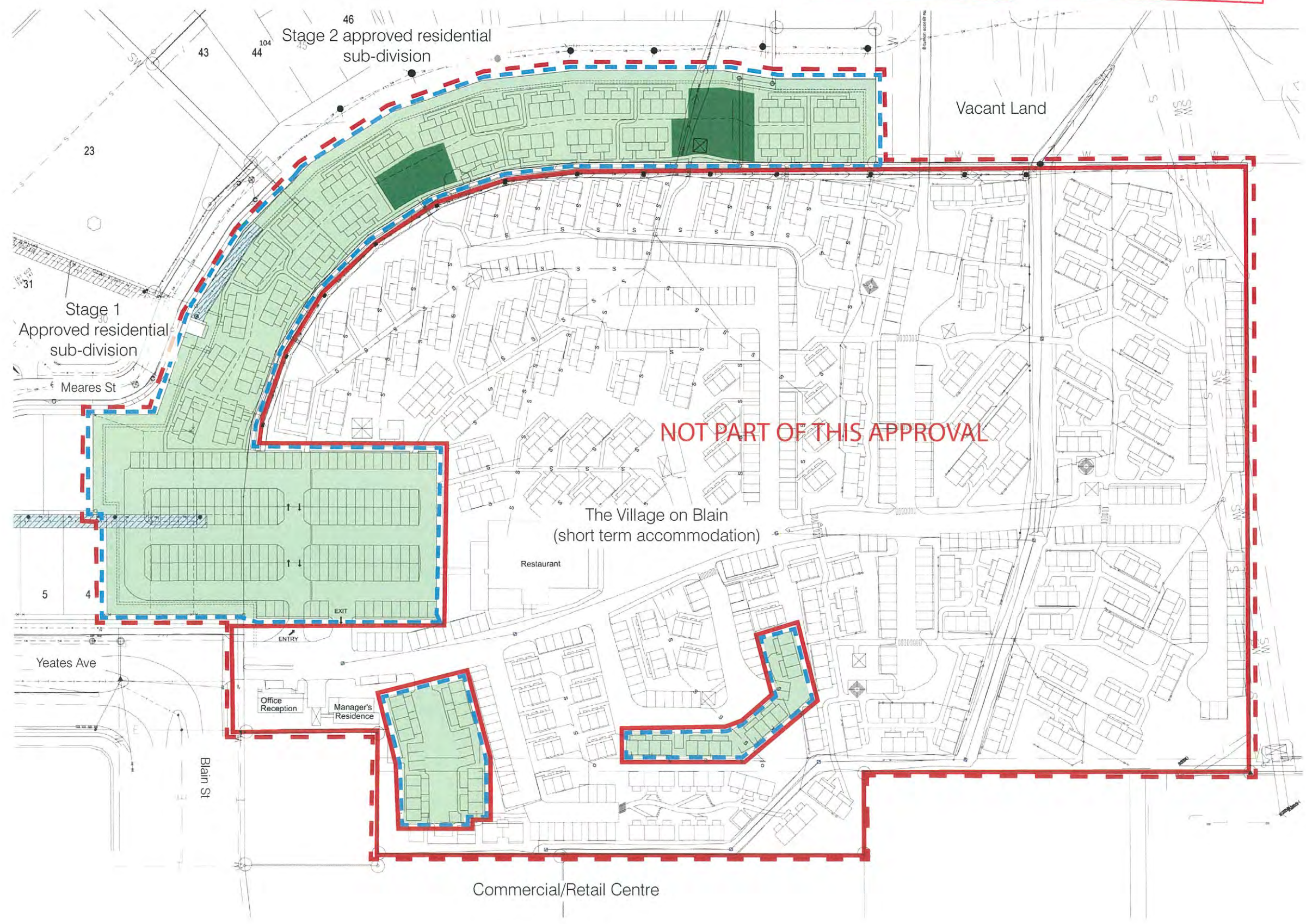
info@dfsgroup.com.au
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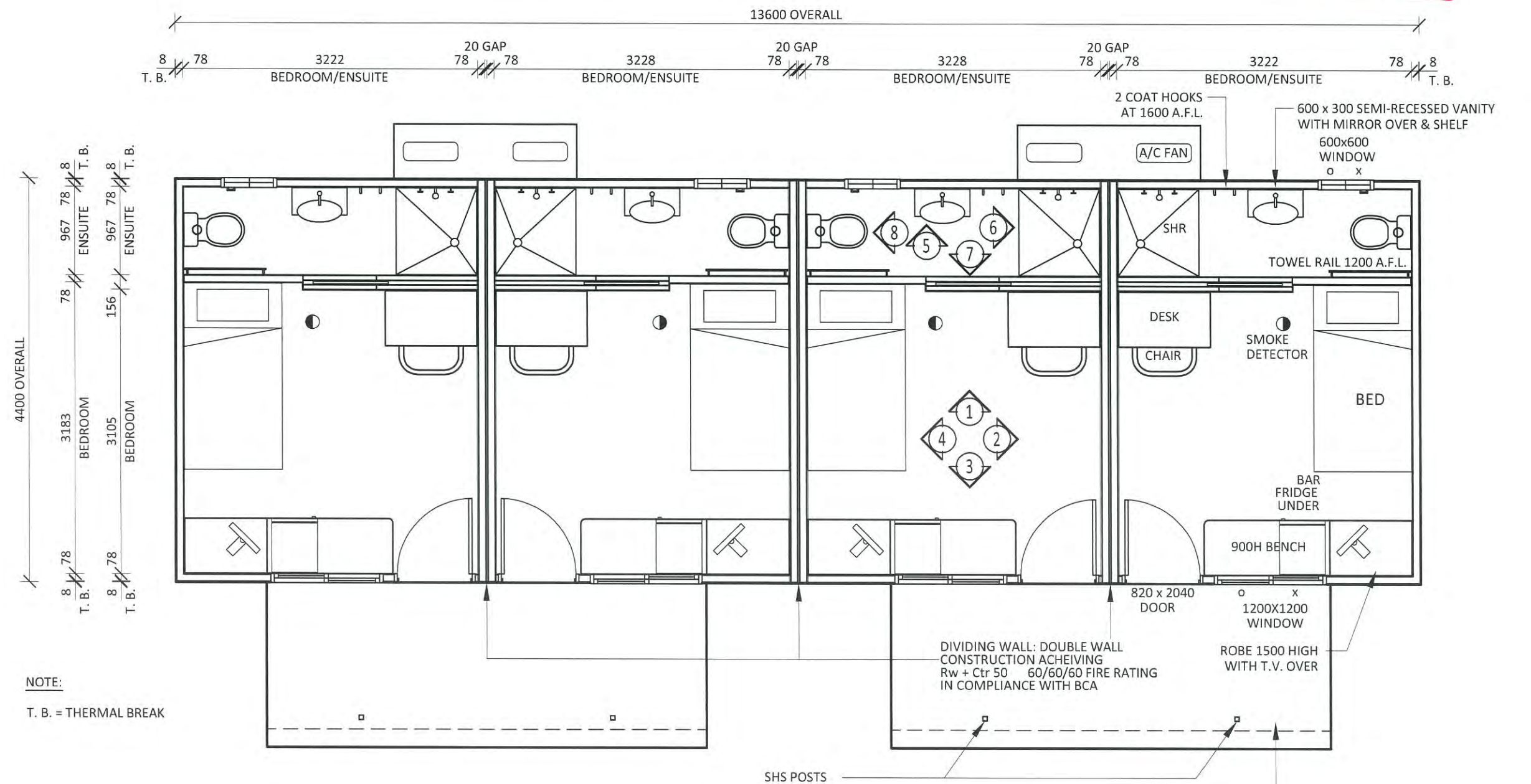
TOWN PLANNING
LANDSCAPE ARCHITECTURE
LIQUOR LICENSING
ENVIRONMENTAL

CHECKED

TITLE
Proposal Plan
Extension Stage 10
PROJECT
Village on Blain
FOR
Pantex Pty Ltd
AT
Blackwater

SCALE
1:600@A1; 1:1200@A3
DRAWING NO
PP-01 [A]
PROJECT NO
14057





TERRACE FLOOR PLAN

A	16.06.14	ISSUED FOR REVIEW	PW	
Rev	Date	Description	By	App.

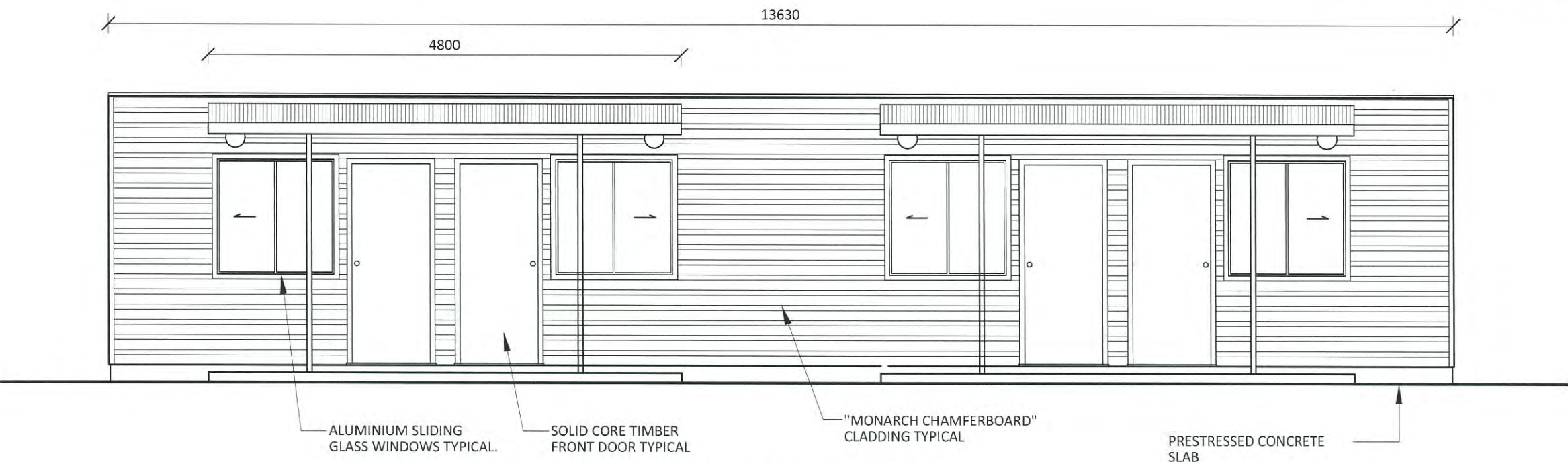
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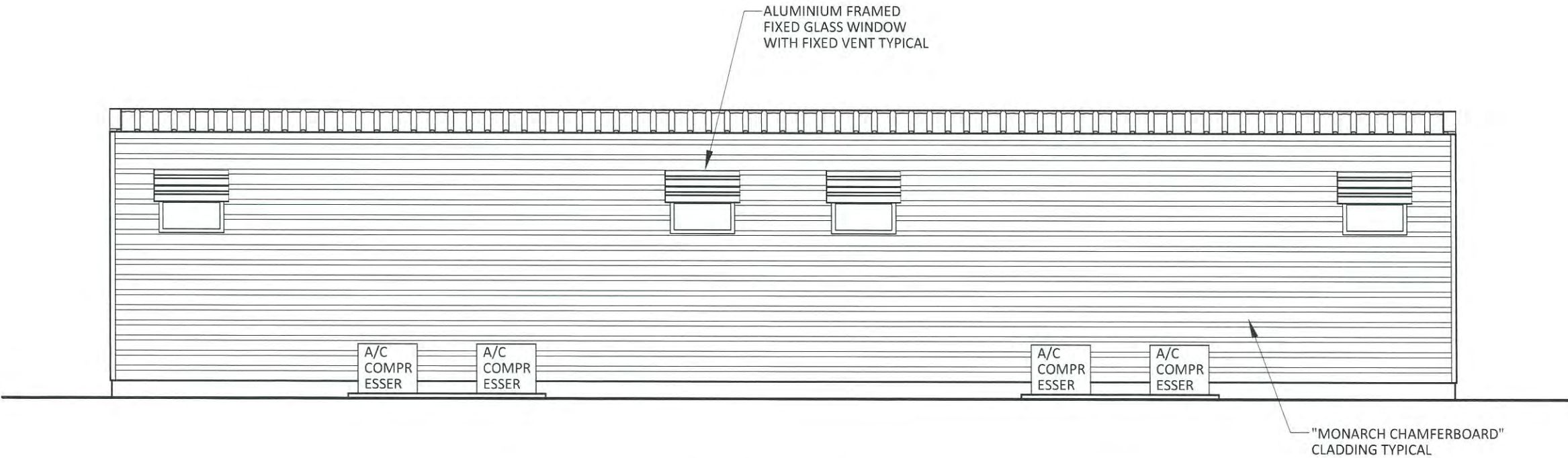
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Date	16.06.14
Scale	1:50
Page Size	A3

PLANS AND DOCUMENTS
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FRONT ELEVATION
SCALE 1:50



REAR ELEVATION
SCALE 1:50

Rev	Date	Description	By	App.
A	16.06.14	ISSUED FOR REVIEW	PW	



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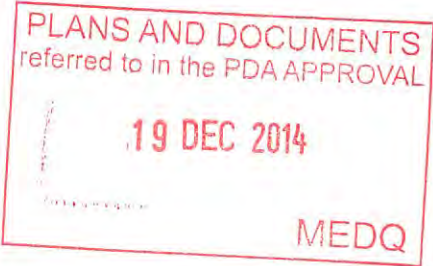
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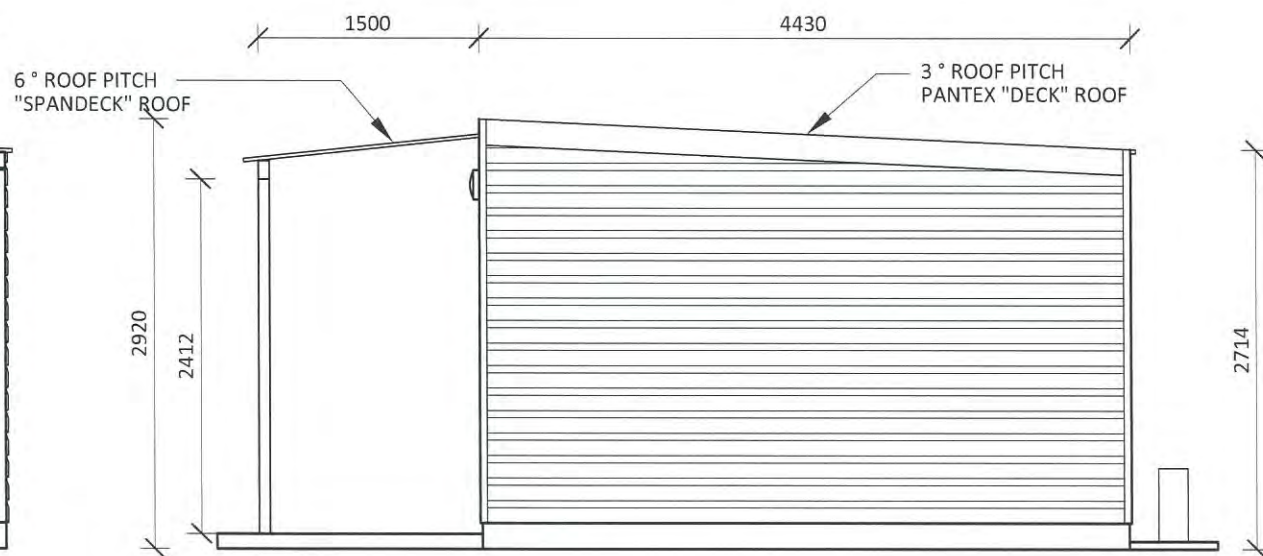
Project	
THE VILLAGE ON BLAIN EXPANSION PROJECT BLACKWATER	
Client	
BAV TRUST	
Drawing Title	
FRONT & REAR ELEVATIONS OF ACCOMMODATION MODULES	
Drawing Number	Rev
7109 - A102	A



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Project	
THE VILLAGE ON BLAIN EXPANSION PROJECT BLACKWATER	
Client	
BAV TRUST	
Drawing Title	
END ELEVATION & SECTIONS OF ACCOMMODATION MODULES	
Drawing Number	Revised
7109 - A103	A

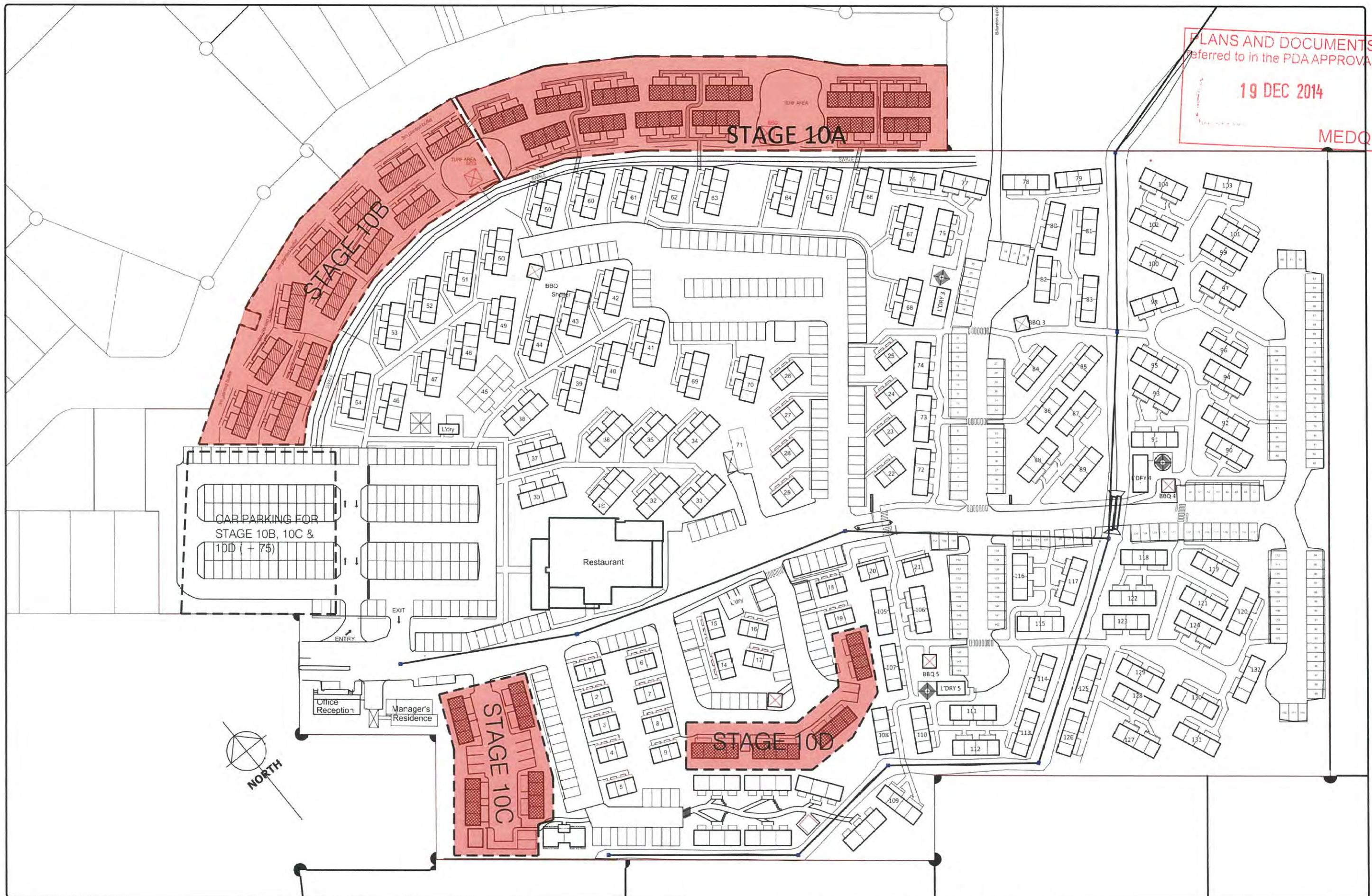


TYPICAL END ELEVATION

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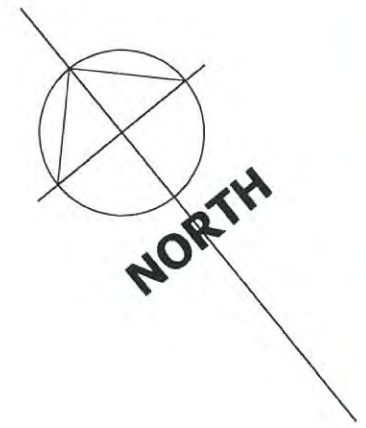
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By: BRIANNA FIFE (name)
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BREMNER STREET



NOT PART OF THIS APPROVAL

STAGE 10A

BOND AVE

ADAMS CRES

INTERIM CAR PARK
FOR STAGE 10A
(Plus 27, less 2)

90° 01' 13"
111.595 m

Rev	Date	Revision Details	By	App
1	18.12.2014			

THE VILLAGE ON BLAIN



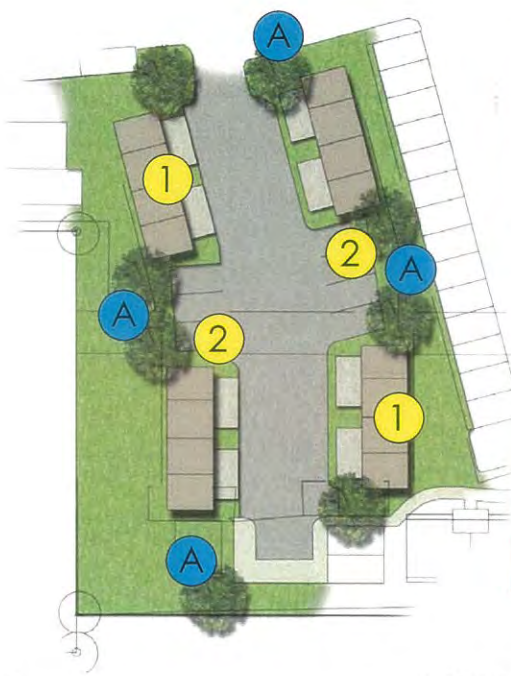
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PROPOSED STAGE 10A
OF STAGING PLAN

Author A/JF 8-12-2014 1:500 A1
Drawing Number 7109 - S004 1

REPLACEMENT OF EXISTING UNITS IN PREVIOUS STAGE



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PLAN A 1:350@A1; 1:700@A3



PLAN B 1:350@A1; 1:700@A3

- LEGEND
- 1 Proposed accommodation buildings
 - 2 New car parking and kerbs
- refer to Engineer
 - A Proposed open space areas with turf
& shade trees

SUGGESTED PLANT PALETTE

Tree Species

Botanical Name

Acacia salicina
Brachychiton rupestris
Corymbia leichhardtii
Delonix regia
Hibiscus tiliaceus
Eucalyptus shirleyi
Eucalyptus ficifolia 'Summer Red'
Melaleuca bracteata
Melaleuca leucadendra
Tabebuia argentea
Yucca elephantipes

Common Name

Sally Wattle
Bottle Tree
Rusty Jacket
Poinciana
Cotton Tree
Shirley's Silver-leaved Ironbark
Eucalyptus Summer Red (hybrid)
Black Tea Tree
Weeping Tea Tree
Silver Trumpet Tree
Soft-tipped Yucca

Shrub Species

Botanical Name

Acacia holosericea
Buddleia davidii
Callistemon 'Injune'
Callistemon 'Pink Alma'
Callistemon viminalis
Callistemon viminalis 'Captain Cook'
Callistemon 'Dawson River'
Callistemon viminalis 'Rose Opal'
Callistemon viminalis 'Wilderness White'
Eremophila bignoifolia
Eremophila glabra
Eremophila maculata
Grevillea 'Honey Gem'
Hibiscus heterophyllus
Hibiscus rosa-sinensis 'Psyche'
Hibiscus rosa-sinensis 'Snowflake'
Melaleuca bracteata 'Revolution Green'
Melaleuca linariifolia 'Snow Storm'
Melaleuca trichostachya
Syzygium australe 'Captain Cook'

Common Name

Lamb's Tail Wattle
Butterfly Bush
Injune Bottlebrush (hybrid)
Pink Alma Bottlebrush (hybrid)
Weeping Bottlebrush
Captain Cook Bottlebrush (hybrid)
Dawson River Bottlebrush (hybrid)
Rose Opal Bottlebrush (hybrid)
Wilderness White Bottlebrush (hybrid)
Weeping Emu Bush
Silver Emu Bush
Spotted Emu Bush
Honey Gem Grevillea (hybrid)
Native Rosella
Yepoon Red (hybrid)
Snowflake Hibiscus (hybrid)
Melaleuca Revolution Green (hybrid)
Melaleuca Snow Storm (hybrid)
Tea Tree
Syzygium Captain Cook

Groundcover & Climber Species

Botanical Name

Acalypha wilkesiana 'Inferno'
Acalypha wilkesiana
Bougainvillea 'Bambino'
Bougainvillea 'Smartie Pants'
Callistemon comboyensis
Callistemon 'Little John'
Callistemon 'Rocky Rambler'
Dianella caerulea
Juniperus horizontalis
Lomandra longifolia
Melaleuca bracteata 'Golden Gem'
Pennisetum alopecuroides 'Nafay'
Rhoeo discolor
Vitex ovata

Common Name

Acalypha wilkesiana Inferno (hybrid)
Hedging Acalypha
Bambino Bougainvillea (hybrid)
Bougainvillea Smartie Pants (hybrid)
Cliff Bottlebrush
Dwarf Bottlebrush (hybrid)
Prostate Bottlebrush (hybrid)
Flax Lily
Creeping Juniper
Mat Rush
Melaleuca bracteata 'Golden Gem' (hybrid)
Pennisetum 'Nafay' (hybrid)
Moses-in-the-cradle
Creeping Vitex

MATERIALS SCHEDULE

- BBQ Colorbond roof structure with electrical BBQ to match existing.
- Fence Type 1 Nom.1.8m high timber paling 'Lap & Cap' fence. Posts and rails to be HWD. Palings to be treated pine.
- Fence Type 2 Nom.1.8m high timber paling 'Lap & Cap' fence with translucent Perspex panels at regular intervals.



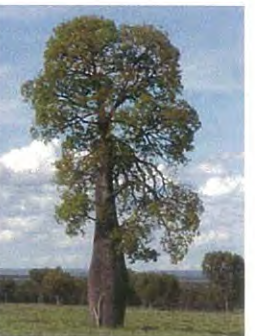
Acacia salicina



Acalypha wilkesiana



Bougainvillea 'Bambino'



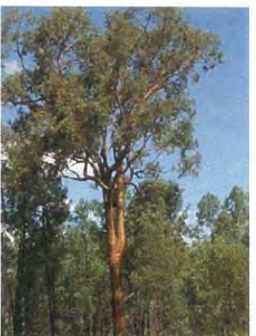
Brachychiton rupestris



Buddleia davidii



Callistemon 'Injune'



Corymbia leichhardtii



Delonix regia



Dianella caerulea



Eremophila glabra



Eucalyptus 'Summer Red'



Grevillea 'Honey Gem'



Hibiscus rosa-sinensis



Juniperus horizontalis



Lomandra longifolia



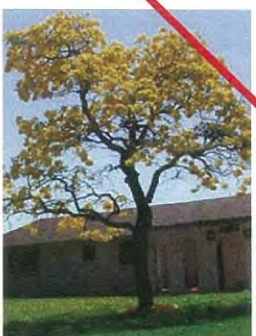
Melaleuca bracteata



Pennisetum alopecuroides



Rhoeo discolor



Tabebuia argentea

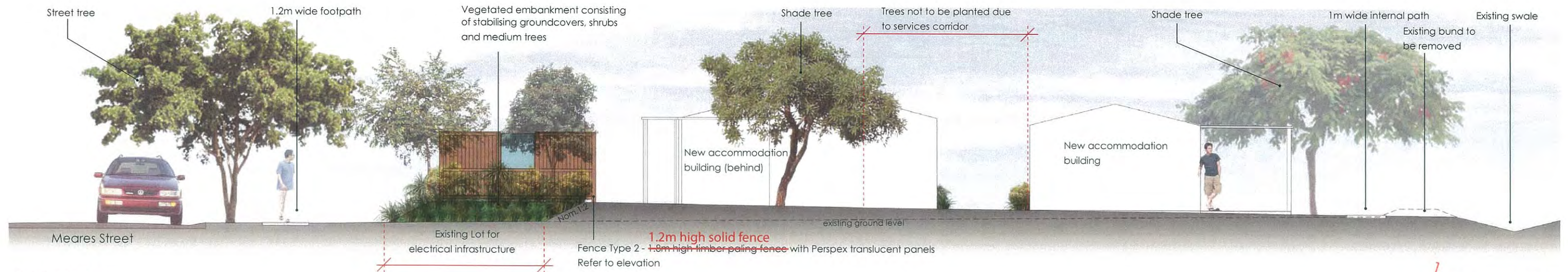


Vitex ovata



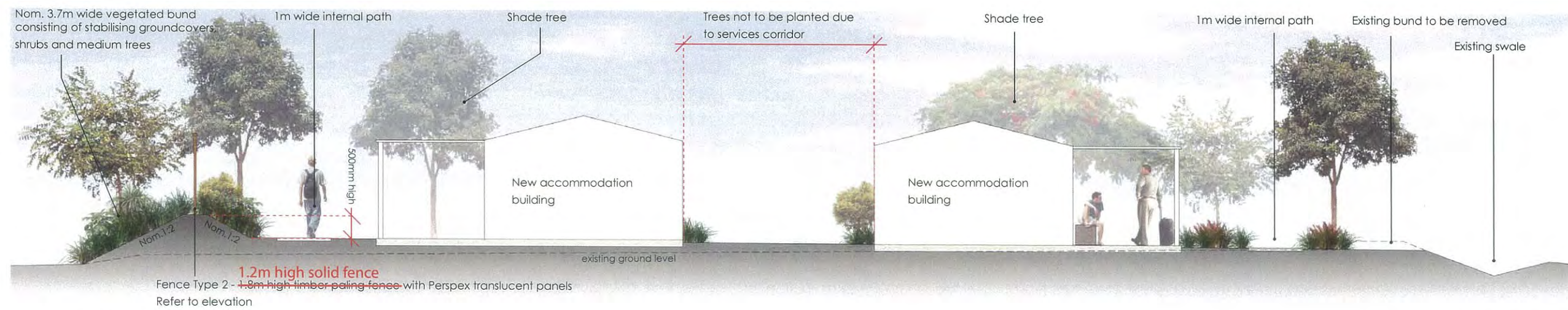
Village on Blain - Extension Stage 10 Landscape Concept Plan





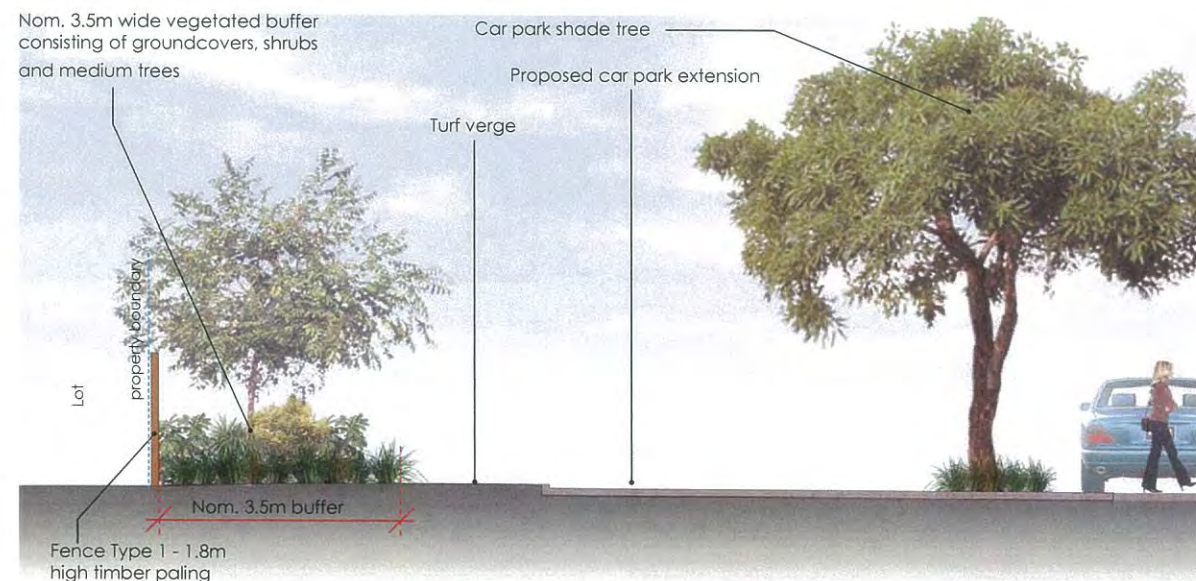
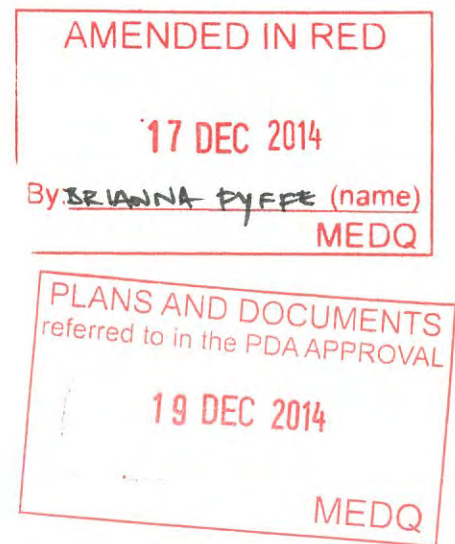
SECTION A-A

1:50@A1; 1:100@



SECTION B-B

1:50@A1; 1:100@A3



SECTION C-C

1:50@A1; 1:100@A3



TYPICAL FENCE TYPE 2 ELEVATION - 1200mm high solid fence

1:20@A1; 1:40@A3

Village on Blain - Extension Stage 10

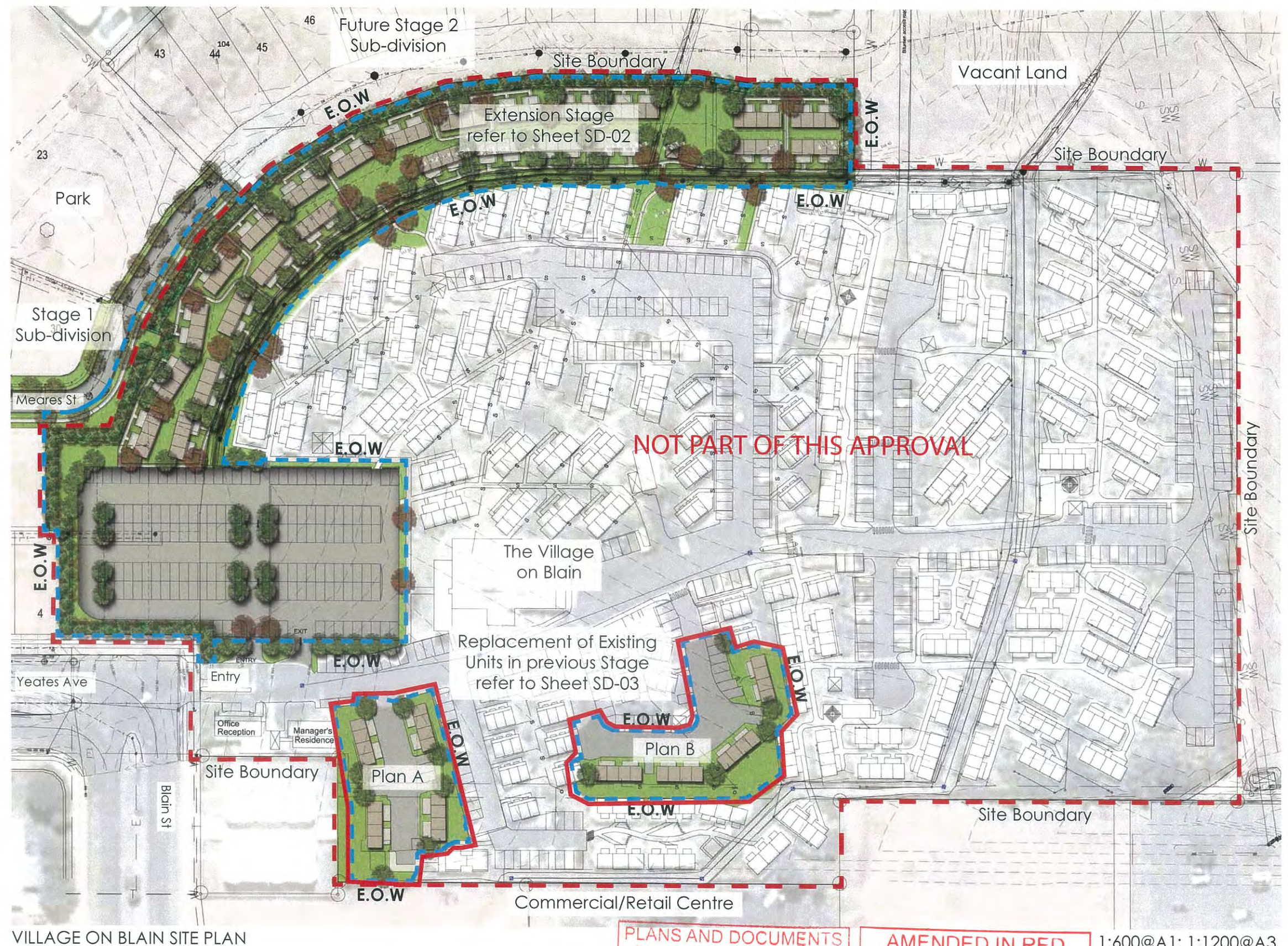
Landscape Sections & Elevation

BLACKWATER AERIAL



DESIGN OBJECTIVES

- Provide shade trees to car parking areas and western sides of buildings.
- Provide landscape buffers around the proposed boundary with the existing/proposed residential sites.
- Provide interesting, accessible and usable landscape spaces within the site for residents.
- Provide vegetation screening within the site to ensure all rooms have some privacy, especially from vehicular areas.
- Using the landscape treatments and plant species to create legibility within the site and help identify different zones and precincts, assisting with wayfinding and orientation.
- Implementation of sustainable principles with regard to water use, material selection, protection from the climate etc.
- Provide an attractive streetscape outcome along Meares Street.
- Integrate the development within the wider community and landscape.



VILLAGE ON BLAIN SITE PLAN

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

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By: BRIANNA PYFFE (name)
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1:600@A1; 1:1200@A3

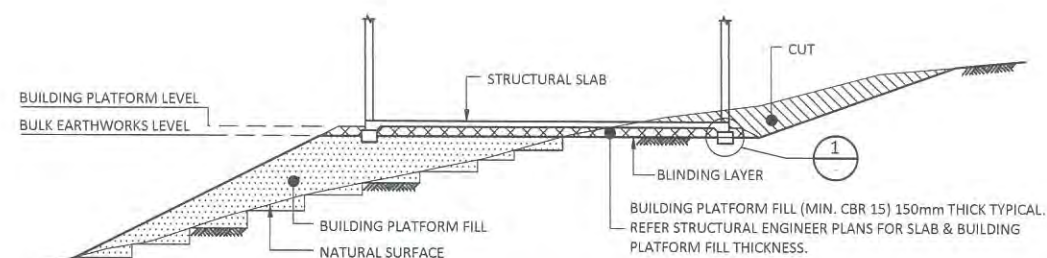
Village on Blain - Extension Stage 10

Overall Site & Design Objectives

1. NOTWITHSTANDING THE LIMITS OF CUTTING & FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT AT THE PRE-START MEETING, ALTERATIONS TO THE EARTHWORKS MAY BE INSTRUCTED BY THE SUPERINTENDENT DURING CONSTRUCTION. FINISHED SURFACE CONTOURS MAY BE ADJUSTED BY THE WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION.
2. REFER TO THE SPECIFICATION FOR COMPACTION DETAILS. ALL FILL MATERIALS WILL BE PLACED IN ACCORDANCE WITH THE APPROVED SPECIFICATION.
3. EARTHWORKS QUANTITIES ARE CALCULATED ON THE BASIS OF THE ASSUMED PAVEMENT THICKNESS SHOWN ON THE DRAWINGS (EXCLUDING LOWER SUB-BASE COURSE), AND ON THE FINAL ALLOTMENT LEVELS ADJUSTED FOR THE STRIPPING AND REPLACEMENT OF TOPSOIL. EARTHWORK QUANTITIES ARE NET SOLID VOLUMES.
4. ALL SITE PREPARATION SHALL BE CARRIED OUT IN ACCORDANCE WITH AS3798-(LATEST VERSION), "GUIDELINES ON EARTHWORKS FOR COMMERCIAL & RESIDENTIAL DEVELOPMENTS".
5. THE SITE SHALL BE STRIPPED OF ALL TOPSOIL FROM ALL THE CUT AND FILL AREAS AND ROAD RESERVES, INCLUDING ANY CARPARKING AREAS AND STOCKPILED FOR LATER USE. THE GEOTECHNICAL CONSULTANT IS TO CONFIRM THAT ALL ORGANIC SOIL HAS BEEN REMOVED PRIOR TO THE COMMENCEMENT OF FURTHER EARTHWORKS.
6. WHERE UNSUITABLE MATERIAL IN AREAS TO BE FILLED IS ENCOUNTERED, THIS WILL BE TREATED AS SET OUT IN THE SPECIFICATION.
7. LEVEL 1 INSPECTION & TESTING IS TO BE IMPLEMENTED ON THE SITE IN ACCORDANCE WITH AS 3798-(LATEST VERSION), "GUIDELINES ON EARTHWORKS FOR COMMERCIAL & RESIDENTIAL DEVELOPMENTS". THE INSPECTION & TESTING AUTHORITY IS TO PROVIDE A COMPLIANCE CERTIFICATE & REPORT SETTING OUT THE INSPECTIONS, SAMPLING & TESTING CARRIED OUT DURING THE BULK EARTHWORKS.
8. THE TOTAL COST OF THE GEOTECHNICAL INSPECTION & TESTING AUTHORITY (GITA) FOR THE LEVEL 1 INSPECTION & TESTING IS TO BE INCLUDED IN THE LUMP SUM OF THE TENDER. THE GITA IS TO MAINTAIN DAILY SITE RECORD SHEETS AS SET OUT IN AS 3798-2007.
9. UNLESS NOTED OTHERWISE THE FREQUENCY OF TESTING IS TO BE IN ACCORDANCE WITH TABLE 8.1 OF AS 3798-(LATEST VERSION).
10. AFTER THE COMPLETION OF EARTHWORKS ON ALLOTMENTS, THE GEOTECHNICAL ENGINEER IS TO CERTIFY THE WORK DONE ON EACH ALLOTMENT, MAKING ANY RECOMMENDATION WHERE APPROPRIATE FOR BUILDING FOUNDATION FOR EACH LOT.
11. THE CONTRACTOR IS TO COMPLY WITH ALL REGULATIONS CONCERNING WORK HOURS, WARNING SIGNS, FENCING OR SECURITY & EMISSIONS FROM THE SITE INCLUDING DUST, WATER, SILT, NOISE & SMOKE.
12. FILL BATTER SLOPES ARE TO BE OVERFILLED & TRIMMED BACK TO PROFILE.
13. THE EARTHWORKS FOR RETAINING WALLS IN FILL IS TO BE OVERFILLED & CUT BACK TO SUIT THE RETAINING WALL & CONSTRUCTION METHODS.
14. ALL VEHICLES EXITING FROM THE SITE WILL DO SO VIA THE TEMPORARY CONSTRUCTION ENTRY/EXIT SEDIMENT TRAP. VEHICLES WILL BE CLEANED & TREATED AS TO PREVENT MATERIAL BEING TRACKED OR DEPOSITED ON THE ADJOINING PUBLIC ROADS. REFER EROSION & SEDIMENT DRAWINGS FOR FURTHER DETAILS OF EROSION & SEDIMENT CONTROLS.

Diagram illustrating the relationship between the stepped profile and the natural slope. The stepped profile has a vertical step of 300mm and a horizontal step of 10 units. The natural slope is indicated by a diagonal line with a 1:10 ratio. A note states "WIDTH VARIES 0.5m MIN".

COMPACTION ON SLOPES DETAIL
N.T.S.



CUT & FILL FOR BUILDING PLATFORM
N.T.S

STATUS **FOR APPROVAL**

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B	14.07.14	FOR APPROVAL																	CONSULT AUSTRALIA REGISTERED									
A	08.07.14	FOR APPROVAL																										
															RPEQ													
															DATE		DATE											

CLIENT		PROJECT		SUBJECT		PROJECT No.	
PANTEX PTY LTD		EXTENSION TO THE VILLAGE ON BLAIN STAGE 10		EARTHWORKS NOTES AND DETAILS		12089E	
						DRAWING No.	REVISION
						C0010	B

EROSION & SEDIMENT CONTROL PROGRAM

1. THIS PROGRAM AND ASSOCIATED PLANS SHALL BE READ IN CONJUNCTION WITH THE SITE MANAGEMENT SPECIFICATION INCORPORATED IN THE CONTRACT DOCUMENTS. THE PROVISIONS OF THE SPECIFICATION ARE TO BE STRICTLY ADHERED TO.
2. THE BASIC OBJECTIVES OF THE EROSION AND SEDIMENT CONTROL ARE :
- 2.1 IDENTIFY CRITICAL AREAS AND PROVIDE SPECIAL ATTENTION TO THOSE AREAS.
- 2.2 PLAN SITE LAYOUTS SO THAT ACCESS TO ALL REQUIRED DRAINAGE EROSION AND SEDIMENT CONTROL MEASURES IS MAINTAINED.
- 2.3 LIMIT EXPOSURE TIME BY PROGRAMMING TO MINIMISE THE AREA OF LAND EXPOSED TO POTENTIALLY ADVERSE WEATHER CONDITIONS AT ANY ONE TIME.
- 2.4 PROVIDE CONTROL MEASURES INCLUDING TEMPORARY AND PERMANENT DRAINAGE, EROSION AND SEDIMENT CONTROLS.
3. THE EROSION AND SEDIMENT CONTROL SHALL COMPLY WITH LOCAL AUTHORITY EROSION AND SEDIMENT CONTROL STANDARDS, THE SOIL EROSION AND SEDIMENTATION CONTROL - ENGINEERING GUIDELINES FOR QUEENSLAND (CURRENT EDITIONS), AND ALL OTHER LOCAL AUTHORITY EROSION AND SEDIMENT CONTROL GUIDELINES.
4. ALL ESC DEVICES ARE TO BE INSPECTED WEEKLY, PRIOR TO EXPECTED AND AFTER RAINFALL. ANY DAMAGE OR EXCESS EROSION/ SEDIMENT IS TO BE REPAIRED AND MANAGED AS REQUIRED TO MAINTAIN CONTROL DEVICES.
5. WATER DISCHARGE
- 5.1 CRITERIA: Samples must be taken and analysed prior to the release of water from ponds.
- TSS<50 mg/L
 - pH BETWEEN 6.5 AND 8.5.
- 5.2 TREATMENT:
- High TSS: Add Gypsum, Recommended 32 to 70kg/400m³ water.
 - Low pH: Add Aglime/Hydrated Lime or Sodium Bicarbonate. Refer to table below as a general guide for minimum dosage rates.

Current Water pH	[H+] (mol/L)	H+ in 1 Megalitre (mol)	Aglime to neutralise 1 Megalitre (kg pure CaCO3)	Hydrated Lime to neutralise 1 Megalitre (kg pure Ca(OH)2)	Sodium bicarbonate to neutralise 1 Megalitre (kg pure NaHCO3)
0.5	0.316	316228	15824	11716	26563
1	0.1	100000	5004	3705	8390
1.5	0.032	32000	1600	1185	2686
2	0.01	10000	500	370	839
2.5	0.0032	3200	160	118	269
3	0.001	1000	50	37	84
3.5	0.00032	320	16	12	27
4	0.0001	100	5	4	8.4
4.5	0.000032	32	1.6	1.18	2.69
5	0.00001	10	0.5	0.37	0.84
5.5	0.0000032	3.2	0.16	0.12	0.27
6	0.000001	1	0.05	0.037	0.08
6.5	0.00000032	0.32	0.016	0.012	0.027

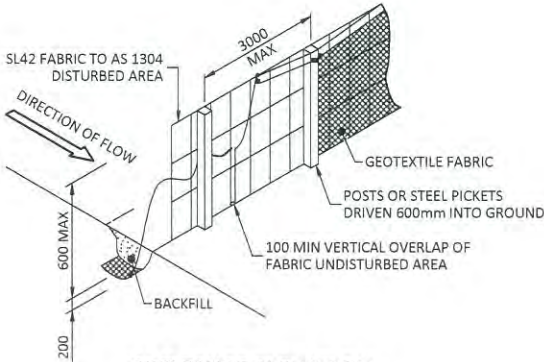
- High pH: Add Citric Acid, Testing for both pH & Alkalinity are necessary to determine dosage rates.
6. ALL WATER QUALITY DATA INCLUDING DATES OF RAINFALL, TESTING AND WATER RELEASE MUST BE MAINTAINED IN AN ON-SITE REGISTER. THIS REGISTER IS TO BE MAINTAINED FOR THE DURATION OF THE APPROVED WORKS AND BE AVAILABLE ON SITE FOR INSPECTION ON REQUEST.
7. ALL TEMPORARY EROSION AND SEDIMENT CONTROL (ESC) MEASURES TO BE MAINTAINED AND FULLY OPERATIONAL DURING THE MAINTENANCE PERIOD AND ARE TO BE REMOVED AS ADVISED BY THE MANAGING CONTRACTOR AND CONSULTING ENGINEER.
8. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR IS TO PROVIDE A DETAILED PROGRAM TO THE MANAGING CONTRACTOR AND CONSULTING ENGINEER SHOWING THE TIMING FOR ALL WORKS ASSOCIATED WITH THE PROJECT, NOMINATING, IN PARTICULAR, THE PROGRAM FOR INSTALLATION OF SOIL AND EROSION CONTROL SYSTEMS.
9. EARTHWORKS SHALL BE CARRIED OUT IN SUCH A MANNER THAT THE SITE IS MAINTAINED IN A WELL DRAINED CONDITION, AREAS OF LOOSE SOIL ARE MINIMISED AND CONCENTRATIONS OF STORMWATER ARE MINIMISED.
10. CONSTRUCTION EXIT SHALL BE AT ONLY ONE NOMINATED POINT OFF THE MAIN ENTRANCE ROAD.
11. FOR DETAILS OF TEMPORARY CONSTRUCTION ENTRY/EXIT SEDIMENT TRAP REFER TO IPWEAQ STANDARD DRAWING DS-040.
12. SUPPLEMENTARY EROSION AND SEDIMENT CONTROL DEVICES MAY BE REQUIRED AT THE DISCRETION OF THE MANAGING CONTRACTOR OR CONSULTING ENGINEER.
13. SEDIMENT CONTROL DEVICES SHALL BE PROVIDED WHERE SHOWN ON THE DRAWINGS. SEDIMENT TRAPS SHALL REMAIN IN PLACE UNTIL AT LEAST 70% SOIL COVERAGE UPSTREAM AND DOWNSTREAM OF THE DEVICE IS ACHIEVED.
14. SEDIMENT FENCES TO BE PLACED AS SHOWN. FOR DETAILS OF SEDIMENT FENCE REFER TO IPWEAQ STANDARD DRAWING DS-041. THE ENDS OF ALL SEDIMENT FENCES ARE TO RETURN UP THE CONTOUR SO AS TO RETAIN ALL SEDIMENT.
15. SEDIMENT FENCES TO BE REPAIRED AND EXCESSIVE SEDIMENT DEPOSITS SHALL BE REMOVED ONCE THE FENCE REACHES 75% OF ITS CAPACITY.
16. EXCAVATED MATERIAL WILL BE PLACED DIRECTLY INTO FILL AREAS IN ACCORDANCE WITH THE APPROVED EARTHWORKS SPECIFICATION.
17. ANY IMPORTED FILL MATERIAL SHALL COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION.

CONSTRUCTION PHASES

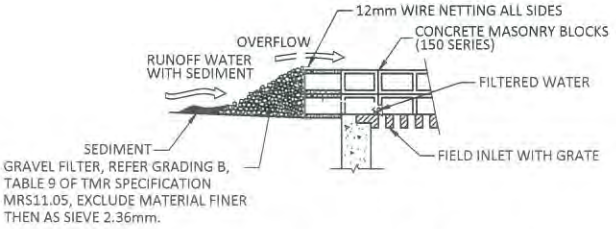
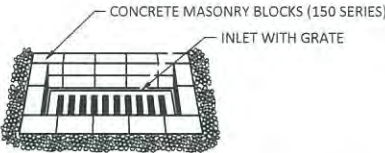
PHASE No.	DESCRIPTION
①	BULK EARTHWORKS & RETAINING WALL
②	TRENCH EXCAVATION
③	PAVEMENT CONSTRUCTION
④	MAINTENANCE PERIOD

EROSION & SEDIMENTATION CONTROL NOTES:

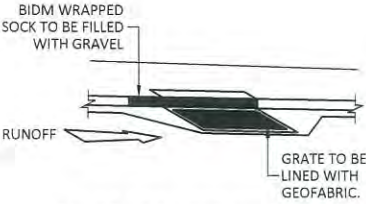
1. TOPSOIL
- 1.1. STRIP & STOCKPILE AVAILABLE TOPSOIL (ASSUMED AVERAGE DEPTH 150mm) FROM ALL DISTURBED AREAS PRIOR TO BULK EARTHWORKS. GRADE BULK EARTHWORKS SURFACE LEVEL EVENLY TO ENSURE SITE IS FREE DRAINING.
- 1.2. MINIMUM SLOPE ACROSS SITE TO BE 0.5%.
- 1.3. ALL FOOTPATHS, BATTERS, & EARTHWORK AFFECTED AREAS ARE TO BE TOPSOILED TO A MINIMUM DEPTH OF 100mm (LIGHTLY COMPACTED) & TURFED WHERE SPECIFIED.
- 1.4. SEDIMENT FENCES TO BE PLACED AS SHOWN. FOR DETAILS OF SEDIMENT FENCE REFER TO IPWEAQ STD DWG DS-040. SEDIMENT FENCES TO BE REPAIRED & EXCESSIVE SEDIMENT DEPOSITS SHALL BE REMOVED ONCE CAPACITY FALLS BELOW 75 %.
2. SEDIMENT FENCES
- 2.1. FOR DETAILS OF SEDIMENT FENCE REFER TO IPWEAQ STD DWG DS-040
- 2.2. SEDIMENT FENCES TO BE REPAIRED AS REQUIRED & EXCESSIVE SEDIMENT DEPOSITS SHOULD BE REMOVED.
- 2.3. IN THE EVENT OF WET WEATHER, INSTALL KERB INLETS FILTER WITH GRAVEL RANGING FROM 50mm TO 75mm IN SIZE. REFER IPWEAQ STANDARD DRAWING DS-041. IF THE GRAVEL FILTER BECOMES CLOGGED WITH SEDIMENT DURING ITS USE, THE GRAVEL MUST BE PULLED AWAY FROM THE MESH & CLEANED OR REPLACED. REGULAR WEEKLY CHECKS OF SILT FENCES IS TO BE MADE ALONG WITH A CHECK AFTER ANY SIGNIFICANT STORM EVENT TO ENSURE INTEGRITY & PERFORMANCE.
- 2.4.
3. TURFING
- 3.1. PROVIDE TURFING TO ENTIRE WIDTH OF ALL SWALES, FOOTPATHS, & 1 IN 4 CUT & FILL BATTERS.
- 3.2. FOOTPATH BATTERS ARE TO BE STABILISED WITH TOPSOIL (& TURFED) AS SOON AS PRACTICAL AFTER THE BATTERS HAVE BEEN COMPLETED. REMAINING EXPOSED AREAS ON LOTS ARE TO BE SEEDED & MULCHED (E.G HYDROMULCH).
4. DURING CONSTRUCTION SEQUENCE
- 4.1. TOPSOIL STOCKPILE SITE TO HAVE A SEDIMENTATION FENCE CONSTRUCTED ON DOWNSTREAM SIDE.
- 4.2. SEDIMENTATION FENCES TO BE PLACED AS SHOWN.
- 4.3. REGULARLY INSPECT BANKS & REPAIR ANY SLUMPS, WHEEL TRACK DAMAGE OR LOSS OF FREEBOARD.
- 4.4. REMOVE SEDIMENT TO AVOID PONDING FROM CATCH DRAINS.
- 4.5. REMOVE EXCESSIVE SEDIMENT FROM UPSTREAM OF CHECK DAM. ROAD RESERVE TO BE USED AS HAUL ROAD.
- 4.6. A CATCH DRAIN BANK IS TO BE PROVIDED ON THE TOP SIDE OF ALL CUTS & DISCHARGE EITHER TO UNDISTURBED GRASS LANDS OR TO THE CROSS ROAD DRAINAGE
- 4.7. SUPPLEMENTARY EROSION & SEDIMENT CONTROL DEVICES MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER.
- 4.8. WATER QUALITY SAMPLES MUST BE TAKEN & ANALYSED PRIOR TO THE RELEASE OF ANY WATER FROM THE SEDIMENT POND. WATER QUALITY MUST SATISFY THE FOLLOWING CRITERIA: TSS<50mg/L pH BETWEEN 6.5 & 8.5. IF WATER QUALITY FAILS THE CRITERIA THEN THE USE OF A GYPSUM FLOCCULENT IS TO BE APPLIED AS DIRECTED BY THE MANAGING CONTRACTOR OR CONSULTING ENGINEER.
- 4.9.
- 4.10. ALL WATER QUALITY DATA INCLUDING DATES OF RAINFALL, TESTING & WATER RELEASE MUST BE MAINTAINED IN AN ON-SITE REGISTER. THIS REGISTER IS TO BE MAINTAINED FOR THE DURATION OF THE APPROVED WORKS & BE AVAILABLE ON SITE FOR INSPECTION ON REQUEST.
- 4.11. GRASS SEEDING IS TO ACHIEVE 70% COVER WITHIN 30 DAYS OF COMPLETION OF EARTHWORKS.
5. FOLLOWING CONSTRUCTION
- 5.1. SEDIMENTATION FENCES TO BE MAINTAINED UNTIL TURFING IS COMPLETED & GRASS IS 80% ESTABLISHED.
- 5.2. SEDIMENT BASINS TO BE CHECKED & DE-SILTED AFTER EVERY SIGNIFICANT STORM EVENT OR IN THE CASE OF NO SIGNIFICANT STORM EVENT, EVERY 12 WEEKS.



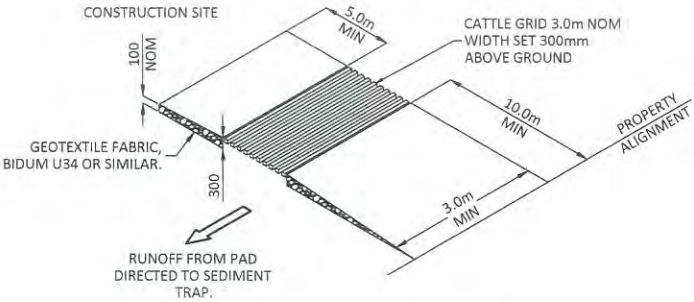
SILT FENCE ELEVATION
N.T.S.



FIELD INLET SEDIMENT TRAP
N.T.S.



ON GRADE KERB INLET SEDIMENT TRAP ON EXISTING ROADS
N.T.S.



NOTE 1: UNBOUND PAVEMENT MATERIAL (GRAVEL) TO GRADING B, TABLE 9 OF TMR SPECIFICATION MRS11.05, EXCLUDE MATERIAL FINER THAN AS SIEVE 2.36mm.

TEMPORARY CONSTRUCTION ENTRY / EXIT SEDIMENT TRAP
NTS

PLANS AND DOCUMENTS referred to in the PDA APPROVAL

19 DEC 2014

MEDQ

STATUS

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B	14.07.14	FOR APPROVAL					DRAWING No. C0020	REVISION B													
A	08.07.14	FOR APPROVAL																			

STANDARD SITEWORKS NOTES

FLEXIBLE PAVEMENTS

1. PAVEMENT AND SURFACING
- 1.1 PAVEMENT THICKNESSES SHOWN ON DRAWINGS ARE PRELIMINARY. THE SUPERINTENDENT WILL NOMINATE FINAL PAVEMENT THICKNESSES FOLLOWING DETAILED SUBGRADE EVALUATION AS NOMINATED IN THE SPECIFICATIONS.
- 1.2 A PRIMER IS REQUIRED ON THE BASE COURSE SURFACE BEFORE ANY ASPHALTIC CONCRETE SURFACING, OR SEALING, IS CARRIED OUT. REFER SPECIFICATION FOR TYPICAL REQUIREMENTS. DETAILS TO BE CONFIRMED WITH THE SUPERINTENDENT PRIOR TO CONSTRUCTION.
- 1.3 BITUMINOUS SURFACING SHALL NOT BE COMMENCED UNTIL THE PROFILE, SURFACE COMPACTION, QUALITY AND FINISH OF THE PAVEMENT HAVE BEEN APPROVED BY THE SUPERINTENDENT. SHOULD THE PAVEMENT, DUE TO ANY REASON OR CAUSE, LOSE THE REQUIRED QUALITY, STABILITY, DENSITY OR FINISH BEFORE THE SURFACING IS COMPLETE, IT SHALL BE RECTIFIED AT THE EXPENSE OF THE CONTRACTOR.
2. MATERIALS
- 2.1 WHERE PAVEMENT MATERIALS ARE SPECIFIED BY SOAKED CBR VALUES, THIS SHALL BE DEFINED AS THE FOUR DAY SOAKED CBR VALUE WHEN TESTING IN ACCORDANCE WITH AS 1289.6.1.1 - METHOD 6.1.1.
- 2.2 ALL PAVEMENT MATERIAL INCORPORATED INTO THE FINISHED PAVEMENT SHALL BE FREE FROM STICKS, ORGANIC MATTER, CLAY LUMPS AND OTHER DELETERIOUS MATERIAL. VISUAL INSPECTION OF THE MATERIAL DURING AND AFTER PLACEMENT SHALL BE USED TO ENSURE COMPLIANCE WITH THIS CLAUSE.

MATERIAL COMPLIANCE TESTING

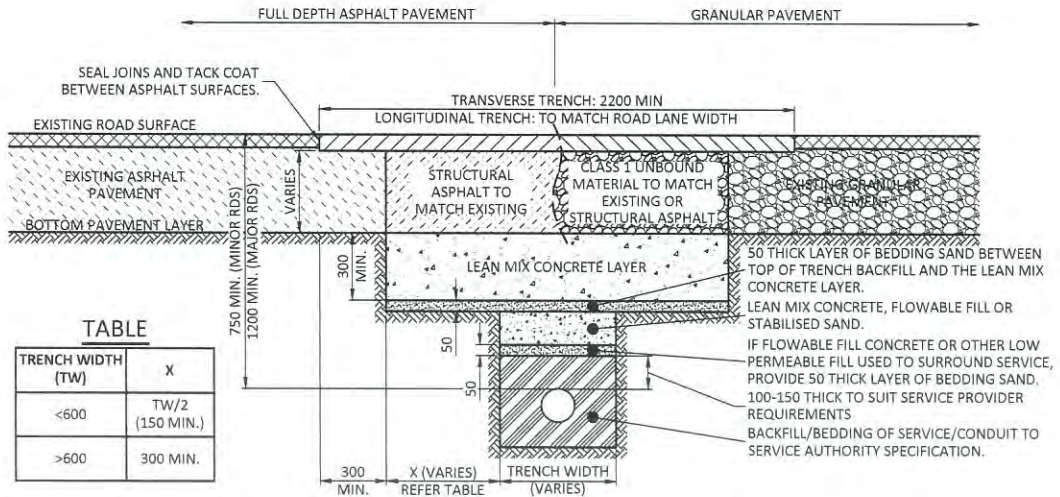
1. PRIOR TO DELIVERY OF ANY MATERIAL ON SITE SUBMIT MATERIAL COMPLIANCE TEST RESULTS TO THE SUPERINTENDENT
2. TESTING REQUIRED TO DEMONSTRATE COMPLIANCE OF MATERIALS SHALL BE UNDERTAKEN AT THE RATE OF ONE (1) TEST PER 500 CUBIC METRES SOLID MEASUREMENT OR PART THEREOF UNLESS OTHERWISE DETERMINED BY THE SUPERINTENDENT OR SPECIFIED UNDER THE JOB SPECIFICATION.

SUBGRADE INSPECTIONS AND TESTING

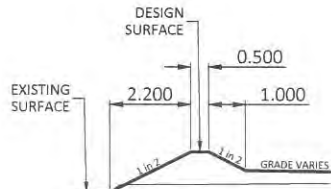
1. SUBGRADE INSPECTIONS
- 1.1 THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT TWENTY-FOUR (24) HOURS IN ADVANCE OF WHEN THE SUBGRADE WILL BE READY FOR THE SUPERINTENDENT'S INSPECTION. PAVING SHALL NOT COMMENCE UNTIL THE SUPERINTENDENT HAS INSPECTED AND APPROVED THE SUBGRADE PREPARATION.
2. SUBGRADE TESTING
- 2.1 THE MINIMUM STANDARDS OF COMPACTION SHALL BE:
SUBGRADE - 100% STANDARD COMPACTION
SUBGRADE REPLACEMENT MATERIAL - 95% MODIFIED COMPACTION
SUB-BASE - 95% MODIFIED COMPACTION
BASE - 98% MODIFIED COMPACTION
- 2.2 COMPACTION TESTS ARE REQUIRED ON SUBGRADE, SUBGRADE REPLACEMENT, SUB-BASE AND BASE LAYERS AT A FREQUENCY OF ONE (1) TEST PER 100 METRES FOR ROADWAY OR ONE (1) TEST PER 500m² FOR GENERAL PAVING

SIDE DRAINS & CONDUITS

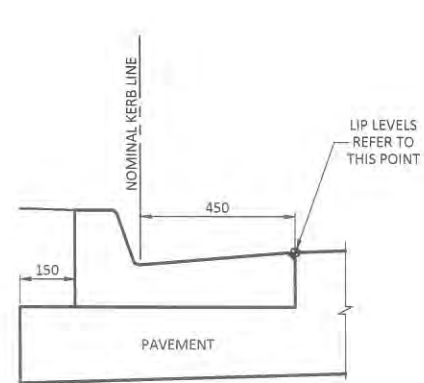
1. SIDE DRAINS
- SUB-SURFACE PAVEMENT DRAINS ARE TO BE PROVIDED BENEATH ALL KERB AND KERB AND CHANNEL UNLESS NOTED OTHERWISE. SIDE DRAINS SHOULD BE FREE DRAINING AND CONNECTED TO THE NEAREST STORMWATER PIT OR OUTLET AT 1% GRADE. REFER SPECIFICATION AND STANDARD DRAWINGS.
2. SERVICE CONDUITS
- THE CONTRACTOR IS TO CONFIRM THE LOCATION OF SERVICE CONDUITS WITH THE SUPERINTENDENT PRIOR TO CONSTRUCTION.



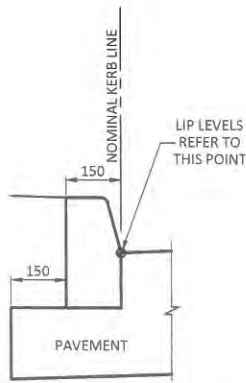
TRENCH THROUGH EXISTING ROAD



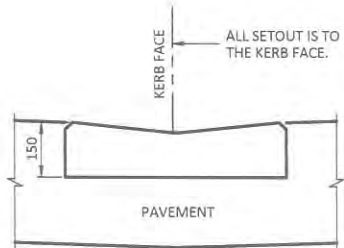
TYPICAL BUND SECTION
SCALE 1:100



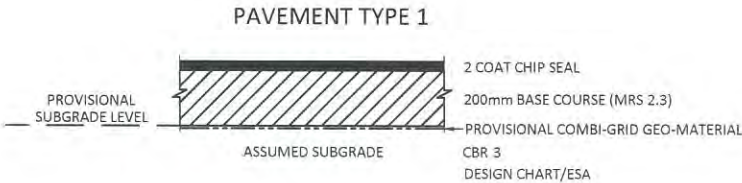
CMDG TYPE 1 - BARRIER KERB AND CHANNEL
REFER CMDG STD DWG CMDG-R-060 FOR DETAILS N.T.S.



CMDG BSC NIB PROFILE
REFER CMDG STD DWG CMDG-R-060A FOR DETAILS N.T.S.



CMDG TYPE 6 - CONCRETE INVERT (600 WIDE)
REFER CMDG STD DWG CMDG-R-060 FOR DETAILS N.T.S.



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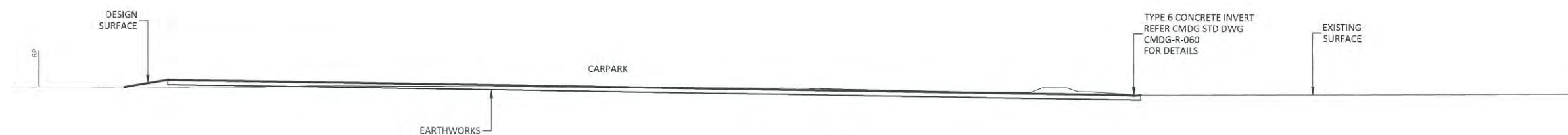
DIMENSIONS IN METRES EXCEPT WHERE SHOWN OTHERWISE. CULVERT AND PIPE SIZES IN MILLIMETRES

SCALE: UNREDUCED / REDUCED

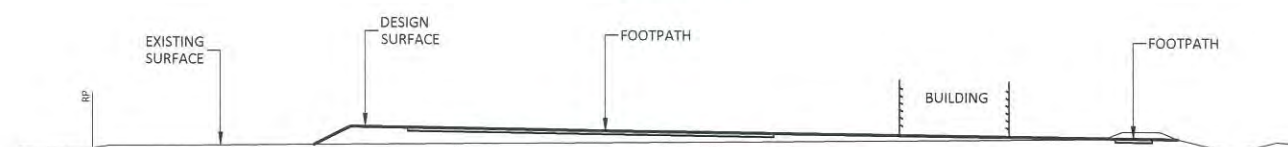
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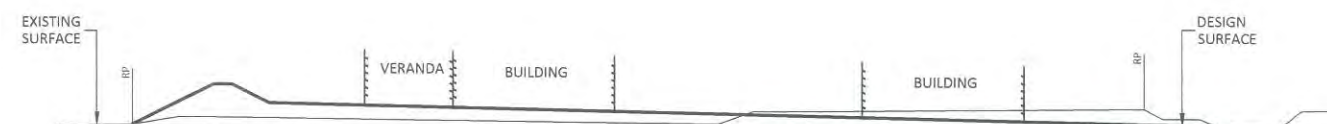
SECTION 1
SCALE 1:100 C0031



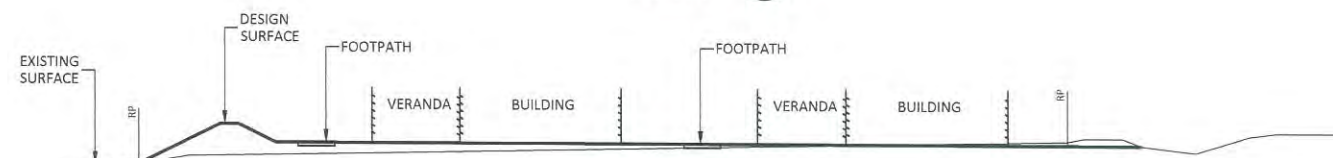
SECTION 2
SCALE 1:100 C0031



SECTION 3
SCALE 1:100 C0031



SECTION 4
SCALE 1:100



SECTION 5
SCALE 1:100

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

19 DEC 2014

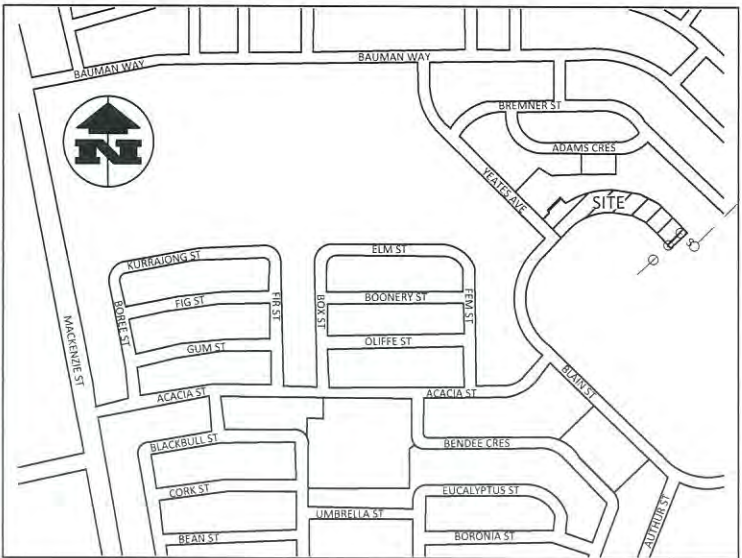
MEDQ

DIMENSIONS IN METRES EXCEPT WHERE SHOWN OTHERWISE. CULVERT AND PIPE SIZES IN MILLIMETRES		A1 UNREDUCED A3 REDUCED
SCALES 		UNREDUCED / REDUCED 1 : 100 / 1 : 200

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SEWER RETICULATION



LOCALITY PLAN
SITE ADDRESS: 30 BLAIN STREET, BLACKWATER
N.T.S.

SEWERAGE NOTES

1. GENERAL

- 1.1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH RELEVANT AUTHORITY SPECIFICATIONS AND STANDARDS.
- 1.2. WHERE NEW WORK IS TO JOIN TO EXISTING, THE CONTRACTOR SHALL CONFIRM EXISTING LEVELS PRIOR TO CONSTRUCTION.
- 1.3. ALL WORK ASSOCIATED WITH LIVE SEWERS OR MANHOLES ARE TO BE CARRIED OUT BY THE RELEVANT AUTHORITY UNLESS NOTED OTHERWISE.
- 1.4. THE CONSTRUCTION OF SEWERAGE WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY A CONSULTING ENGINEER WHO HAS BEEN APPROVED BY THE CHIEF ENGINEER OF THE SEWERAGE DEPARTMENT OF RELEVANT AUTHORITY TO CARRY OUT SEWERAGE WORKS WITHIN THE LOCAL AREA. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO THE COUNCIL'S SEWERAGE SYSTEM.
- 1.5. THE CONTRACTOR SHALL VERIFY FINISHED SURFACE LEVELS ON SITE BEFORE CONSTRUCTION OF SEWERS & HOUSE CONNECTION BRANCHES.

2. SEWER

- 2.1. ALL SEWERS SHALL BE uPVC CLASS 'SN8' UNLESS SHOWN OTHERWISE.
- 2.2. AIR TESTS OF SEWERS SHALL BE CARRIED OUT TO THE REQUIREMENTS OF THE RELEVANT AUTHORITY.
- 2.3. TEST EVIDENCE IS REQUIRED FOR ALL SEWER PIPES & SPECIALS & C.I. FITTINGS.
- 2.4. WHERE SEWERS HAVE A GRADE OF 1 ON 6 OR STEEPER, BULKHEADS SHALL BE CONSTRUCTED AT 2m CENTERS.

3. HOUSE CONNECTIONS

- 3.1. HOUSE CONNECTIONS (100mm) SHALL BE PROVIDED INTO EACH BUILDING WHERE SHOWN AT SUCH A LEVEL THAT ALL OF THE BUILDING AREA CAN BE DRAINED IN ACCORDANCE WITH THE STANDARD SEWERAGE BYLAWS.
- 3.2. NOTWITHSTANDING HOUSE CONNECTION LEVELS SHOWN ON THE PLANS, THE MAXIMUM DEPTH OF RESIDENTIAL HOUSE CONNECTIONS SHALL BE 1.8m.
- 3.3. O.B'S SHALL BE LOCATED GENERALLY BETWEEN 1.0m AND 1.2m FROM THE DOWNSTREAM PROPERTY ALIGNMENT.
- 3.4. HOUSE CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 1500mm PAST WATER.
- 3.5. HOUSE CONNECTIONS CROSSING UNDERGROUND ELECTRICITY ALLOCATION TO HAVE A MINIMUM OF 1.10m COVER.

4. WORKPLACE HEALTH AND SAFETY

- 4.1. ALL WATER & SEWER CONSTRUCTION WORK SHALL COMPLY WITH THE REQUIREMENTS OF QUEENSLAND WORKPLACE HEALTH & SAFETY ACT 1995. CONTACT NEAREST OFFICE OF THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION. PH: (07) 3247 9478(NTH) OR (07) 3896 3368(STH)

ENVIRONMENTAL NOTES

VEGETATION PROTECTION

- A. TREES LOCATED ALONG THE FOOTPATH SHOULD BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- B. WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHOULD BE CONSTRUCTION WITH 1.8m BATTENS CLOSELY SPACED & ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES MUST BE STRAPPED TO TREES PRIOR TO CONSTRUCTIONS & REMAIN UNTIL COMPLETION.
- C. TREE ROOTS SHOULD BE TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
- D. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

SOIL

- A. TOPSOIL & SUBSOIL SHOULD BE STOCKPILED SEPARATELY.
- B. CARE SHOULD BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.
- C. ACID SULPHATE SOILS EXIST IN THE WORKS AREA. THE OUTPUTS FROM THE RISK ASSESSMENT BASED ON THE QUEENSLAND ACID SULPHATE SOIL TECHNICAL MANUAL REQUIRES THAT ACID SULPHATE SOILS BE MANAGED AS FOLLOWS: (DELETE IF NO ACID SULPHATE SOILS)

REHABILITATION

- A. PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
- B. PREDISTURBANCE VEGETATION PATTERNS SHOULD BE RESTORED.

SAFETY

- A. THE DESIGN AND CONSTRUCTION OF THE WORK SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION.

ALL ENVIRONMENT PROTECTION MEASURES SHOULD BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING, COMMENCING.

SEWER DISUSED				JOB No. 12089		NUMBER OF MH, MS, HB & VB					
LOCATION	DWG No.	DIA.	TYPE	LENGTH	YEAR LAID	MH IN-SITU	MH PRECAST	MS	HB	VB	OTHER
PRIVATE PROPERTY	C0011	150	SN8	30m	2012	-	-	-	-	-	-

LIVE SEWER WORK

CONSULTING ENGINEERS ARE TO CONTACT COUNCIL'S SEWERAGE UTILITY SERVICES 24 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR THIS WORK TO BE CARRIED OUT. (EXCAVATION, SAFE-SHORING AND ASSOCIATED WORK BY CONTRACTOR.) EXCAVATION WORKS CARRIED OUT BY CONTRACTORS AT DEPTH OF 1.5m OR GREATER MUST PROVIDE A 'SAFE WORK PLAN' AS PER WORKPLACE HEALTH AND SAFETY LEGISLATION TO COUNCIL PRIOR TO COUNCIL COMMENCING ANY WORKS. IT IS THE DEVELOPERS RESPONSIBILITY TO ENSURE ALL LIVE SEWER WORKS ARE COMPLETE BEFORE ALLOWING PRIVATE DRAINAGE TO BE CONNECTED.

No.	DESCRIPTION	DIA. SEWER	M.H. No.	M.H. TYPE	COVER TYPE	LOT NO	F.S.L.	E.S.L.	I.L	DEPTH INVERT
1(A)	CONSTRUCTOR TO CONSTRUCT NEW MAINTENANCE HOLE 1/1 OVER EXISTING SEWER AND BENCH AND RENDER UP YO PIPE BUT NOT REMOVE CROWN OF PIPE.	150	1/1	CIRC	-		166.833	166.736	164.157	2.676
1(B)	CONSTRUCTOR TO LAY LINES 1 AND 2 AND INSTALL HOUSE CONNECTIONS.									
1(C)	AGENCY TO REMOVE CROWN OF PIPE AND COMPLETE BENCHING AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION OF LINES 1 AND 2.									
7	AGENCY TO ADJUST EXISTING MAINTENANCE HOLES EX2/1, EX3/5 AND EX2/5 TO SUIT NEW DESIGN LEVEL.									

PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE REQUIRED SERVICE AREA OF EACH LOT AT A GRADE OF 1:60 AND A MAXIMUM DEPTH OF HOUSE CONNECTION AT 1.5m. UNLESS OTHERWISE STATED.

"DIAL BEFORE YOU DIG" TO BE CONTACTED
PH: 1100 FOR LOCATION FOR THE LOCATION OF EXISTING PUBLIC UTILITIES, PRIOR TO EXCAVATION

NOTE:
SERVICE LOCATIONS AND DEPTHS ARE ESTIMATED FROM SURVEY DATA AND RECORDS. THE ACTUAL LOCATION OF SERVICES IS TO BE DETERMINED ON SITE BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS.

LEVEL DATUM

DATUM: AHD
PSM: 77491
LOCATED: BLAIN STREET & WALSH AVENUE
LEVEL: 168.507

R.P. DESCRIPTION

LOT 1 ON SP 235822

CONSULTANT: BORNHORST AND WARD PTY LTD
CONTACT: BEN BEGAUD
TELEPHONE: (07) 3013 4699

ALL WATER AND SEWER CONSTRUCTION WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORKPLACE HEALTH AND SAFETY ACT 1995. CONTACT THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION. PHONE 1300 369 915

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL
19 DEC 2014
MEDQ

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REV	DATE	AMENDMENT / ISSUE	DWN	CHK	APP
B	14.07.14	FOR APPROVAL			
A	08.07.14	FOR APPROVAL			

ASSOCIATED CONSULTANTS

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DATE
RPEQ
DATE

BORNHORST + WARD
CONSULTING ENGINEERS
CIVIL AND STRUCTURAL
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CONSULT AUSTRALIAN
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CLIENT
PANTEX PTY LTD

PROJECT
EXTENSION TO THE
VILLAGE ON BLAIN
STAGE 10

SUBJECT
SEWER RETICULATION
NOTES AND DETAILS

PROJECT No.
12089E
DRAWING No.
C0060
REVISION
B

SEWERAGE NOTES

1. GENERAL

- 1.1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH RELEVANT AUTHORITY SPECIFICATIONS AND STANDARDS.
- 1.2. WHERE NEW WORK IS TO JOIN TO EXISTING, THE CONTRACTOR SHALL CONFIRM EXISTING LEVELS PRIOR TO CONSTRUCTION.
- 1.3. ALL WORK ASSOCIATED WITH LIVE SEWERS OR MANHOLES ARE TO BE CARRIED OUT BY THE RELEVANT AUTHORITY UNLESS NOTED OTHERWISE.
- 1.4. THE CONSTRUCTION OF SEWERAGE WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY A CONSULTING ENGINEER WHO HAS BEEN APPROVED BY THE CHIEF ENGINEER OF THE SEWERAGE DEPARTMENT OF RELEVANT AUTHORITY TO CARRY OUT SEWERAGE WORKS WITHIN THE LOCAL AREA. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO THE COUNCIL'S SEWERAGE SYSTEM.
- 1.5. THE CONTRACTOR SHALL VERIFY FINISHED SURFACE LEVELS ON SITE BEFORE CONSTRUCTION OF SEWERS & HOUSE CONNECTION BRANCHES.

2. SEWER

- 2.1. ALL SEWERS SHALL BE uPVC CLASS 'SN8' UNLESS SHOWN OTHERWISE.
- 2.2. AIR TESTS OF SEWERS SHALL BE CARRIED OUT TO THE REQUIREMENTS OF THE RELEVANT AUTHORITY.
- 2.3. TEST EVIDENCE IS REQUIRED FOR ALL SEWER PIPES & SPECIALS & C.I. FITTINGS.
- 2.4. WHERE SEWERS HAVE A GRADE OF 1 ON 6 OR STEEPER, BULKHEADS SHALL BE CONSTRUCTED AT 2m CENTERS.

3. HOUSE CONNECTIONS

- 3.1. HOUSE CONNECTIONS (100mm) SHALL BE PROVIDED INTO EACH BUILDING WHERE SHOWN AT SUCH A LEVEL THAT ALL OF THE BUILDING AREA CAN BE DRAINED IN ACCORDANCE WITH THE STANDARD SEWERAGE BYLAWS.
- 3.2. NOTWITHSTANDING HOUSE CONNECTION LEVELS SHOWN ON THE PLANS, THE MAXIMUM DEPTH OF RESIDENTIAL HOUSE CONNECTIONS SHALL BE 1.8m.
- 3.3. O B'S SHALL BE LOCATED GENERALLY BETWEEN 1.0m AND 1.2m FROM THE DOWNSTREAM PROPERTY ALIGNMENT.
- 3.4. HOUSE CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 1500mm PAST WATER.
- 3.5. HOUSE CONNECTIONS CROSSING UNDERGROUND ELECTRICITY ALLOCATION TO HAVE A MINIMUM OF 1.10m COVER.

4. WORKPLACE HEALTH AND SAFETY

- 4.1. ALL WATER & SEWER CONSTRUCTION WORK SHALL COMPLY WITH THE REQUIREMENTS OF QUEENSLAND WORKPLACE HEALTH & SAFETY ACT 1995. CONTACT NEAREST OFFICE OF THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION. PH: (07) 3247 9478(NTH) OR (07) 3896 3368(STH)

ENVIRONMENTAL NOTES

VEGETATION PROTECTION

- A. TREES LOCATED ALONG THE FOOTPATH SHOULD BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- B. WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHOULD BE CONSTRUCTION WITH 1.8m BATTENS CLOSELY SPACED & ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES MUST BE STRAPPED TO TREES PRIOR TO CONSTRUCTIONS & REMAIN UNTIL COMPLETION.
- C. TREE ROOTS SHOULD BE TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
- D. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

SOIL

- A. TOPSOIL & 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.
- B. ACID SULPHATE SOILS EXIST IN THE WORKS AREA. THE OUTPUTS FROM THE RISK ASSESSMENT BASED ON THE QUEENSLAND ACID SULPHATE SOIL TECHNICAL MANUAL REQUIRES THAT ACID SULPHATE SOILS BE MANAGED AS FOLLOWS: (DELETE IF NO ACID SULPHATE SOILS)

REHABILITATION

- A. PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
- B. PREDISTURBANCE VEGETATION PATTERNS SHOULD BE RESTORED.

SAFETY

- A. THE DESIGN AND CONSTRUCTION OF THE WORK SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION.

LEGEND

EXISTING	PROPOSED	
		KERB AND CHANNEL
		KERB ONLY
		KERB INVERT
		EDGE OF BITUMEN
		EXTENT OF BUILDING
		PROPERTY BOUNDARY
		EASEMENT
		STORMWATER DRAINAGE
		ROOFWATER DRAINAGE
		OPEN CHANNEL
		BATTER
		CONTOURS
		FENCE
		SEWER
		WATER
		TELSTRA
		OVER HEAD POWER
		UNDER GROUND POWER
		ABANDONED SERVICE
		TREE
		FLOW DIRECTION ARROW
		STRUCTURE NUMBER

NOTE:
SEWER ID'S ARE TO BE
PLACED ON EACH HOUSE
CONNECTION

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL
19 DEC 2014
MEDQ



DIMENSIONS IN METRES EXCEPT WHERE SHOWN OTHERWISE. CULVERT AND PIPE SIZES IN MILLIMETRES
A1 UNREDUCED
A3 REDUCED
UNREDUCED / REDUCED
0 5 10 15 20 25m
1:500 / 1:1000

FOR APPROVAL

PROJECT No. 12089E
SUBJECT SEWER RETICULATION LAYOUT
DRAWING No. C0061
REVISION B



PLAN
SCALE A

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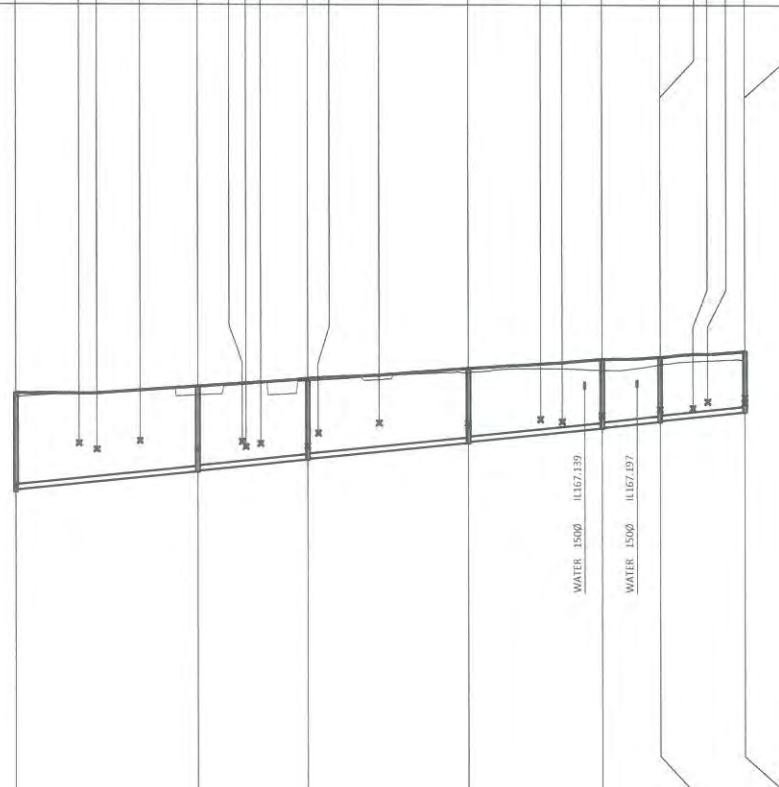
CLIENT
PANTEX PTY LTD

PROJECT
EXTENSION TO THE
VILLAGE ON BLAIN
STAGE 10

SUBJECT
SEWER RETICULATION
LAYOUT

PROJECT No. 12089E
DRAWING No. C0061
REVISION B

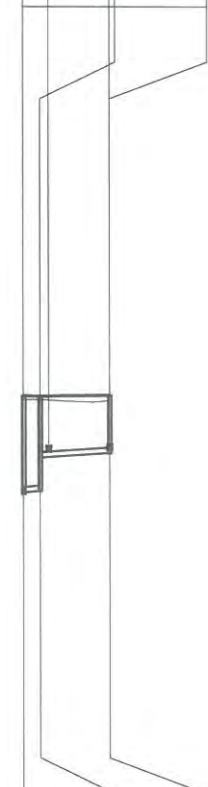
MANHOLE/END NAME	1\1	2\1	3\1	4\1	5\1	6\1	7\1
MANHOLE TYPE	CIRC 1050	CIRC 1050	CIRC 1050	CIRC 1050	CIRC 1050	CIRC 1050	CIRC 1050
LID TYPE							
JUNCTION LINE							
DROP TYPE	A						
DEPTH TO HC							
HOUSE CONNECTION							
INVERT LEVEL		IL 165.47m	IL 165.31m	IL 165.31m	IL 166.14m	IL 166.47m	IL 166.47m
HC TYPE		B	B	B	B	B	B
HC LOT No.		21	20	19	18	17	16
CH. FROM D/S MH		17.150	22.049	32.751	0.000	12.104	13.176



DATUM RL	153.000
DIAMETER	1500 PVC
GRADE	1 in 100.00
DEPTH TO INVERT	2.676
INVERT LEVEL OF SEWER	164.157
DESIGN SURFACE LEVEL	166.833
RUNNING CHAINAGE	0.000

LINE 1

MANHOLE/END NAME	1\1	1\2	2\2
MANHOLE TYPE	CIRC 1050	CIRC 1050	CIRC 1050
LID TYPE			
JUNCTION LINE			
DROP TYPE	A	C	A
DEPTH TO HC			
HOUSE CONNECTION			
INVERT LEVEL	IL 165.41m	IL 165.38m	IL 165.47m
HC TYPE	A	B	B
HC LOT No.	10122	10123	10124
CH. FROM D/S MH	2.344	18.883	23.475

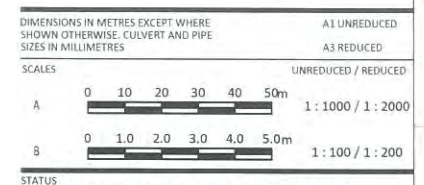
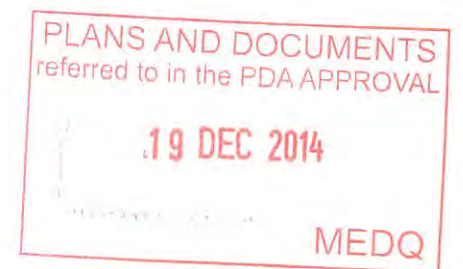


DATUM RL	153.000
DIAMETER	1500 PVC
GRADE	1 in 150
DEPTH TO INVERT	2.676
INVERT LEVEL OF SEWER	164.157
DESIGN SURFACE LEVEL	166.833
RUNNING CHAINAGE	0.000

2

SEWER RETICULATION LONGITUDINAL SECTION

SCALE A (HOR)
B (VERT)



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1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
2. NEW WATER MAINS SHALL BE LOCATED IN THE VERGE, PARALLEL TO PROPERTY BOUNDARIES, UNLESS NOTED OTHERWISE.
3. WATER MAIN MATERIALS DN 100 & DN 150 MAINS SHALL BE uPVC RUBBER RING JOINTED THICK WALL CLASS 16 PIPES WITH OUTSIDE DIAMETER COMPATIBLE WITH DUCTILE IRON & AC PIPES, UNLESS NOTED OTHERWISE.
4. MAIN, SERVICE AND METER SHALL BE INSTALLED BY THE DEVELOPER.
5. ALL CONNECTIONS TO EXISTING MAINS SHALL BE CARRIED OUT BY LOCAL AUTHORITY AT THE DEVELOPER'S COST.
6. WRAP FLANGES AND BOLTS, WITH A PETROLATUM TAPE SYSTEM IN ACCORDANCE WITH SEQ-WAT-1313.
7. WATER SERVICES (EXCLUDING METER) TO BE CONSTRUCTED TO LOTS WHERE THE WATER MAINS ARE LOCATED UNDER CONCRETE FOOTPATHS AND DRIVEWAYS UNLESS NOTES OTHERWISE. BRASS MARKERS ARE TO BE PLACED IN THE CONCRETE FOOTPATHS AND DRIVEWAYS UNLESS NOTED OTHERWISE.
8. CONCRETE (GRADE 532) THRUST BLOCKS SHALL BE PLACED AT ALL BENDS, TEES & DEAD ENDS.

9. DUCTILE IRON FITTINGS MAY BE USED WITH DI & PVC PIPE. FITTINGS SHALL BE FUSION BOND EPOXY (FBE) COATED AND LINED. CEMENT LINED WITH A BITUMINOUS EXTERNAL COATING MAY BE USED WITH APPROVAL. DO NOT USE PVC FITTINGS.
10. PE SLEEVING, COLOURED FOR THE PRODUCT IS REQUIRED ON ALL DI PIPE AND FITTINGS APPLIED IN ACCORDANCE WITH AS 3681. TWO THICKNESS REQUIRED BETWEEN FITTINGS AND THRUST BLOCK. REINSTATE ANY DAMAGED SLEEVING AS PER MANUFACTURER'S SPECIFICATIONS.
11. USE PRE-TAPPED CONNECTIONS ON DN 100 TO DN 300 NEW MAIN INSTALLATIONS.
12. USE TAPPING BORDS FOR CONNECTIONS TO EXISTING MAINS.
13. ELECTRICALLY ISOLATE COPPER SERVICES FROM DCL PIPE.

14. USE PRE-TAPPED CONNECTORS ON DN 100 TO DN 300 NEW MAIN INSTALLATIONS
15. PVC PIPE SHALL NOT BE IN CONTACT WITH THRUST BLOCK CONCRETE
16. MAXIMUM SIZE OF DRILLED HOLES FOR SERVICE CONNECTION IN PVC PIPE TO BE 30% OF DN OR 50 (LOWER VALUE TO BE USED).
17. DI SPIGOTS SHALL NOT BE FITTED INTO PVC SOCKETS.

EXISTING	PROPOSED	
		KERB AND CHANNEL
		KERB ONLY
		KERB INVERT
		EDGE OF BITUMEN
		EXTENT OF BUILDING
		PROPERTY BOUNDARY
		EASEMENT
		WATER
		STORMWATER DRAINAGE
		ROOFWATER DRAINAGE
		SEWER
		TELSTRA
		OVER HEAD POWER
		UNDER GROUND POWER
		OPEN CHANNEL
		TREE

EXISTING	PROPOSED	
		FIRE HYDRANT
		VALVE
		SCOUR VALVE
		WATER METER
		WATER SERVICE POINT
		THRUST / ANCHOR BLOCK

NO.	DESCRIPTION
1	100 X 100 TEE
2	Ø100 VALVE
3	11 $\frac{1}{4}$ ° BEND
4	22 $\frac{1}{2}$ ° BEND
5	45° BEND
6	90° BEND

PROJECT NORTH



DIMENSIONS IN METRES EXCEPT WHERE SHOWN OTHERWISE. CULVERT AND PIPE SIZES IN MILLIMETRES

0 5 10 15 20 25m

A 1:500 / 1:1000

STATUS

FOR APPROVAL

SUBJECT
WATER RETICULATION
LAYOUT

PROJECT No.
12089E

DRAWING No.	REVISION
C0071	B

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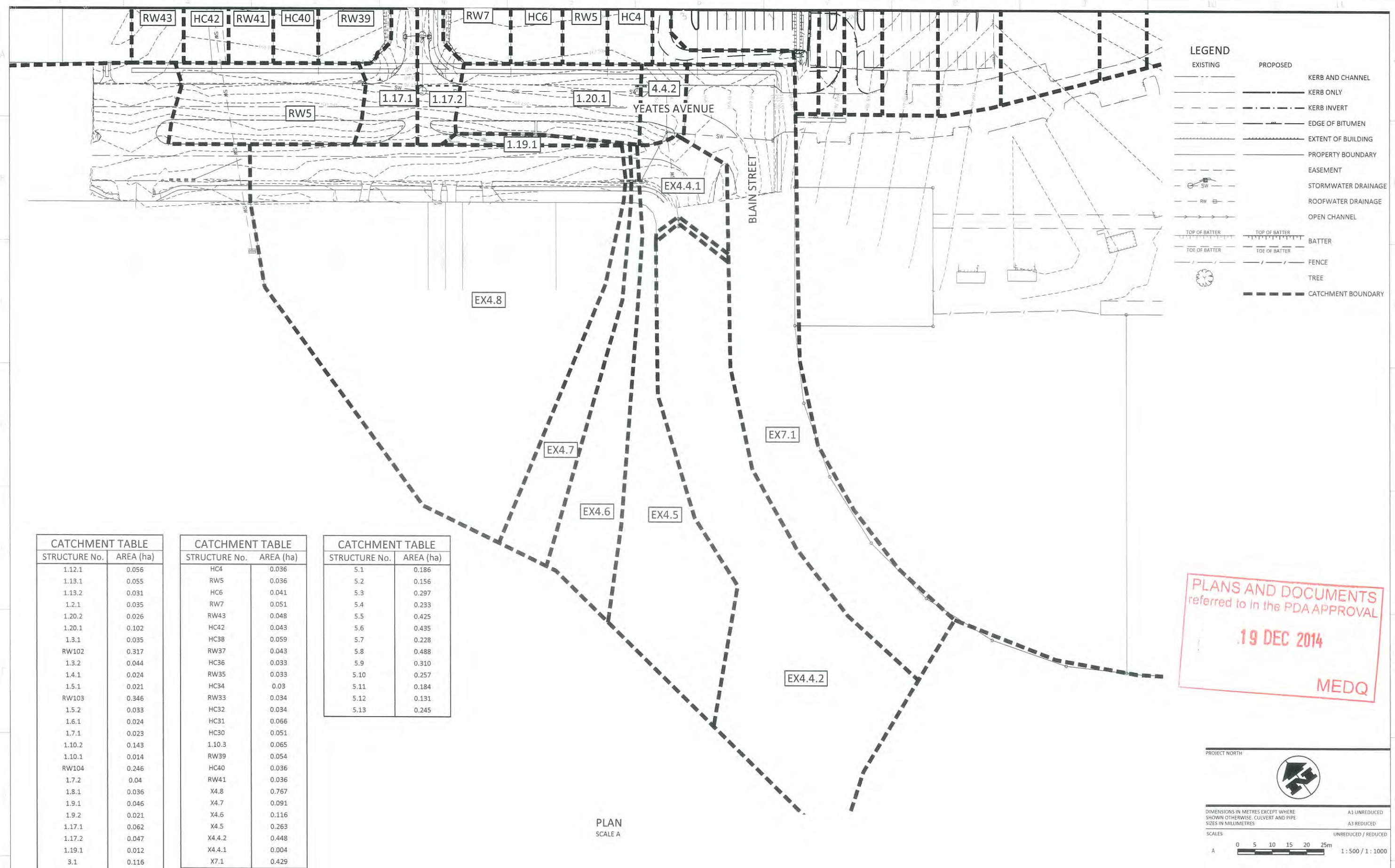
CLIENT
PANTEX PTY LTD

PROJECT
EXTENSION TO THE
VILLAGE ON BLAIN
STAGE 10

SUBJECT
WATER RETICULATION
LAYOUT

PROJECT No.
12089E

DRAWING No.	REVISION
C0071	B



PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

19 DEC 2014

MEDQ



DIMENSIONS IN METRES EXCEPT WHERE SHOWN OTHERWISE. CULVERT AND PIPE SIZES IN MILLIMETRES		A1 UNREDUCED A3 REDUCED
SCALES A 0 5 10 15 20 25m		UNREDUCED / REDUCED 1 : 500 / 1 : 1000

STATUS **FOR APPROVAL**

SUBJECT STORMWATER DRAINAGE CATCHMENT SHEET 1	PROJECT No. 12089E	
	DRAWING No. C0090	REVISION B

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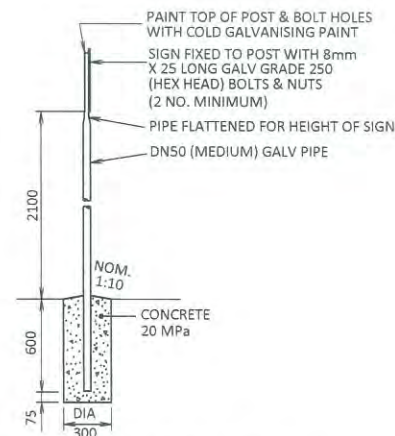
PROJECT
EXTENSION TO THE
VILLAGE ON BLAIN
STAGE 10

SUBJECT
STORMWATER DRAINAGE
CATCHMENT SHEET 1

PROJECT No.
12089E

RAWING No.	REVISION
C0090	B

1. GENERAL
 - 1.1. ALL SIGNS AND PAVEMENT MARKING IS TO BE IN ACCORDANCE WITH THE QUEENSLAND TRANSPORT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION).
2. SIGNS
 - 2.1. ALL SIGNS TO BE REFLECTORISED CLASS 1 TO AS1906.1:2007 UNLESS NOTED OTHERWISE.
 - 2.2. SIGNS ARE TO BE INSTALLED WITH THE FOLLOWING CLEARANCES TO EDGE OF SIGN: LOCATION CLEARANCE NO KERB 600 BEHIND GUIDE POSTS BARRIER KERB 300 FROM FACE MOUNTABLE KERB 500 FROM FACE OF KERB
 - 2.3. PARKING CONTROL SIGNS TO BE MOUNTED TO FACE APPROACHING TRAFFIC AT 45° TO KERB OR CARRIAGEWAY EDGE. ALL OTHER SIGNS TO BE TURNED AWAY BY 5° FROM THE NORMAL TO APPROACHING HEADLIGHT.
3. SIGN SUPPORTS
 - 3.1. SLEEVED SIGNS SUPPORTS ARE TO BE PROVIDED IN ALL AREAS WHERE THEY ARE IN A PAVED SURFACE.
4. LINEMARKING
 - 4.1. REDUNDANT LINEMARKING IS TO BE GROUND OFF.
 - 4.2. THERMOPLASTIC LINEMARKING TO BE USED FOR ALL CONCRETE SURFACES.



TYPICAL INSTALLATION DETAIL
N.T.S.

NOTE: INSTALL HAZARD SIGNS IN ACCORDANCE WITH THE SLEEVED INSTALLATION DETAIL.

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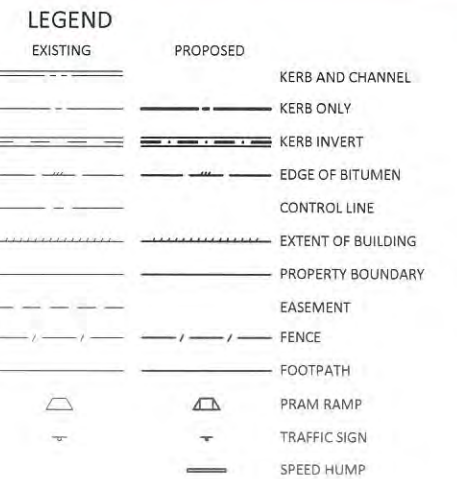
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DRAWING No.	REVISION
C0085	B



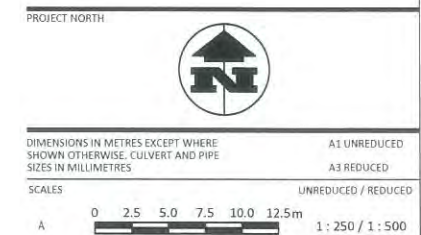
MEDQ



DESCRIPTION	CODE NO.	QUANTITY
1 NO ENTRY	R2-4A	4
2 GIVEAWAY	R1-2A	2

TYPE	DESCRIPTION	DIMENSIONS
GW	GIVE WAY	

1. ALL DIMENSIONS ARE IN METRES.
2. REFER TO AS 1742.3-2002 'MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES' FOR APPLICATION OF LINETYPES.



STATUS

FOR APPROVAL