Aboriginal Housing Office, Seniors Living Development x 4 Units 30 Frank Street, Mount Druitt, NSW Updated DA Issue - 4th June 2019

Architectural Drawing Schedule

Civil Drawing Schedule

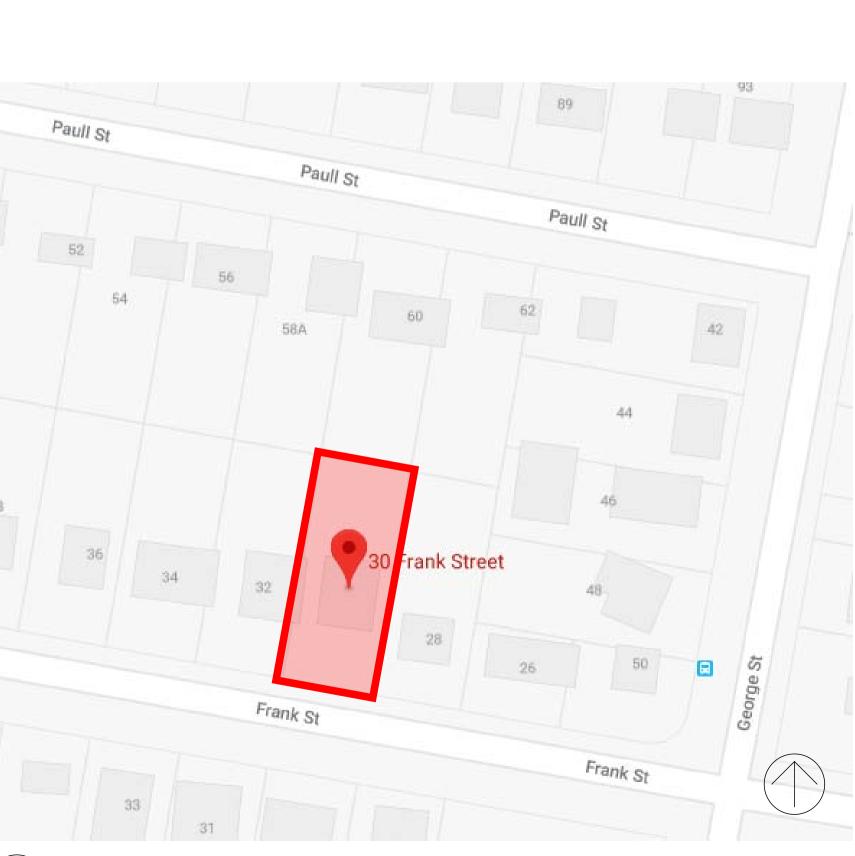
171243 171243 171243 171243 171243 171243 171243 171243 171243 171243 171243	C01 C02 ESM1 ESM2 C10 C11 C12 C13 C14 C15	Notes & Legends Ground Floor Drainage Plan Notes & Legends Environmental Site Management Plan Locality Map & Drawing Schedule General Notes Stormwater Layout Plan Stormwater Layout Plan (enlarged) Stormwater Longsection Stormwater Notes & Details
	C15	8
171243 171243	C16 C17	Stormwater Catchment Plan Erosion and Sediment Control Plan
1, 12, 13	01/	

Landscape Drawing Schedule

2158.17 L01 Landscape Plan

Survey Drawing Schedule

2158.17 Sht. 1 of 1 Plan Showing Detail and Levels







Site & Location Plan not to scale

Attachment 1 Supplementary Sydney Central City Planning Panel Report: DA-18-00567

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Aboriginal Housing Office _____

Seniors Living Development x 4 Units 30 Frank Street, Mount Druitt, NSW

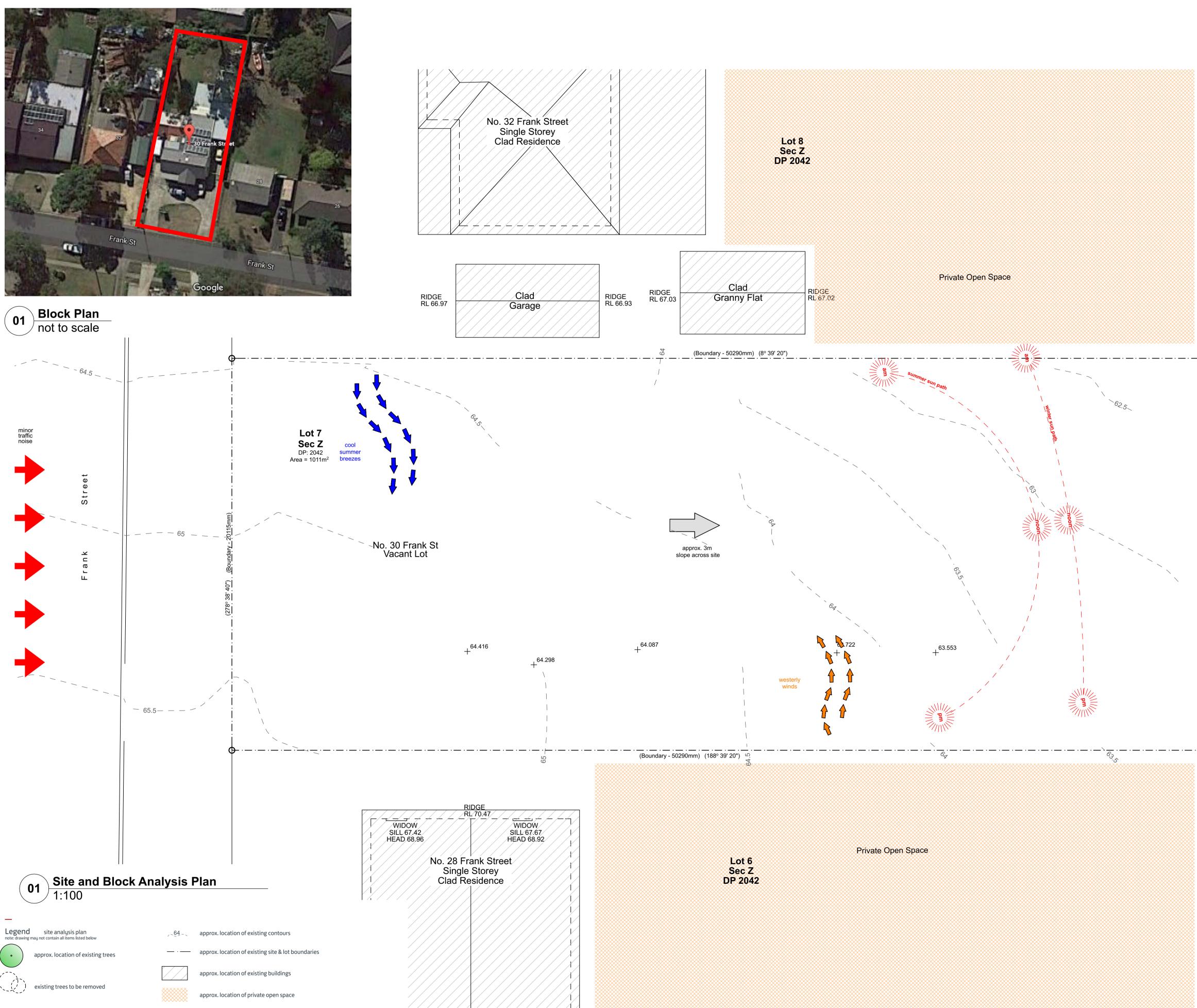
— Drawn; JOK, CP Checked; JOK Plot date; 4/6/19 ____ Scale; N.T.S @ AI

Project No; 2158.17 ____

Drawing No; DA00 —

Amendment#; 03

Cover Sheet



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Rev	Issue	Date
01	DA Issue	16.03.18
02	Council Amendedments	26.07.18
03	Revised DA Issue	04.06.19





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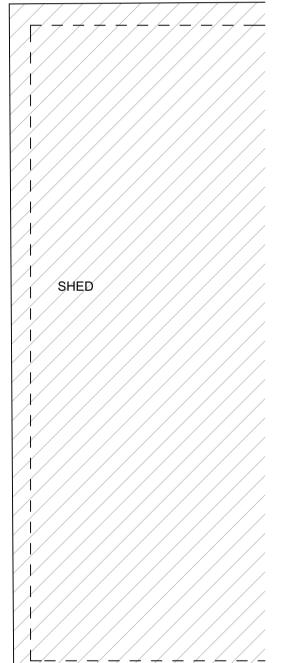
____ Project No; 2158.17 ____

Drawing No; DA01 ____

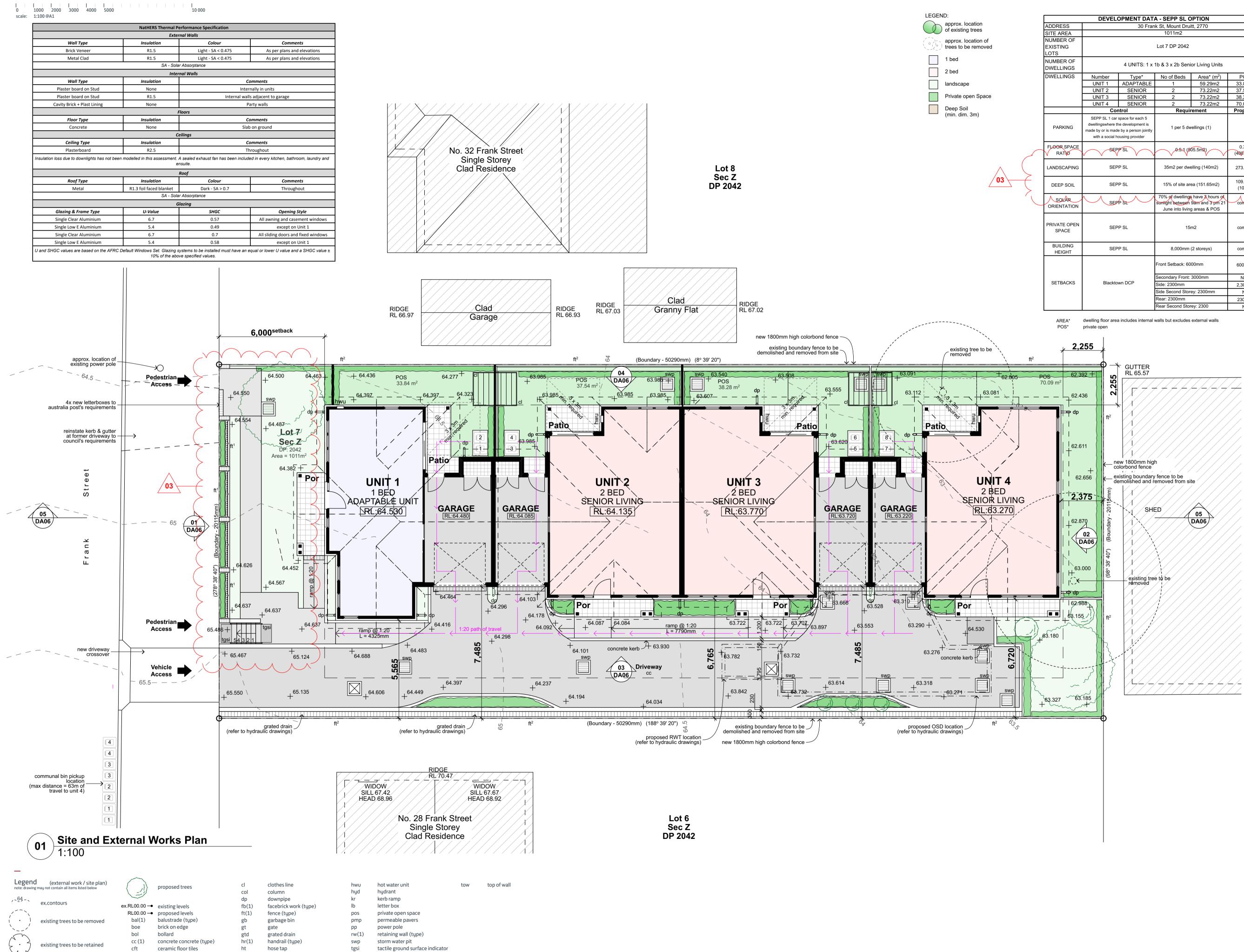
Amendment#; 03

Site Analysis & Block Plan

GUTTER RL 65.57



Private Open Space



DEVELOPMENT DATA OFER OF OPTION	
DEVELOPMENT DATA - SEPP SL OPTION	
30 Frank St, Mount Druitt, 2770	
1011m2	
Lot 7 DP 2042	
4 UNITS: 1 x 1b & 3 x 2b Senior Living Units	
Number Type* No of Beds Area* (m ²)	POS*
	3.84m2
UNIT 2 SENIOR 2 73.22m2 37	7.54m2
UNIT 3 SENIOR 2 73.22m2 38	3.28m2
UNIT 4 SENIOR 2 73.22m2 70	0.09m2
Control Requirement Pro	oposed
EPP SL 1 car space for each 5 ellingswhere the development is e by or is made by a person jointly with a social housing provider	4
\sim SEPPSI \sim \sim $(505.5m)$	0.39:1 00.87m2
SEPP SL 35m2 per dwelling (140m2) 27	'3.92m2
SEPP SL 15% of site area (151.65m2)	9.74m2 10.9%)
SEPP SL 70% of dwellings have & hours of sunlight between 9am and 3 pm 21 June into living areas & POS	omplies
SEPP SL 15m2 cd	omplies
SEPP SL 8,000mm (2 storeys) co	omplies
Front Setback: 6000mm 60	000mm
	N/A
Blacktown DCP Side: 2300mm 2,	,300mm
Side Second Storey: 2300mm	N/A
Rear: 2300mm 23	300mm
Rear Second Storey: 2300	N/A

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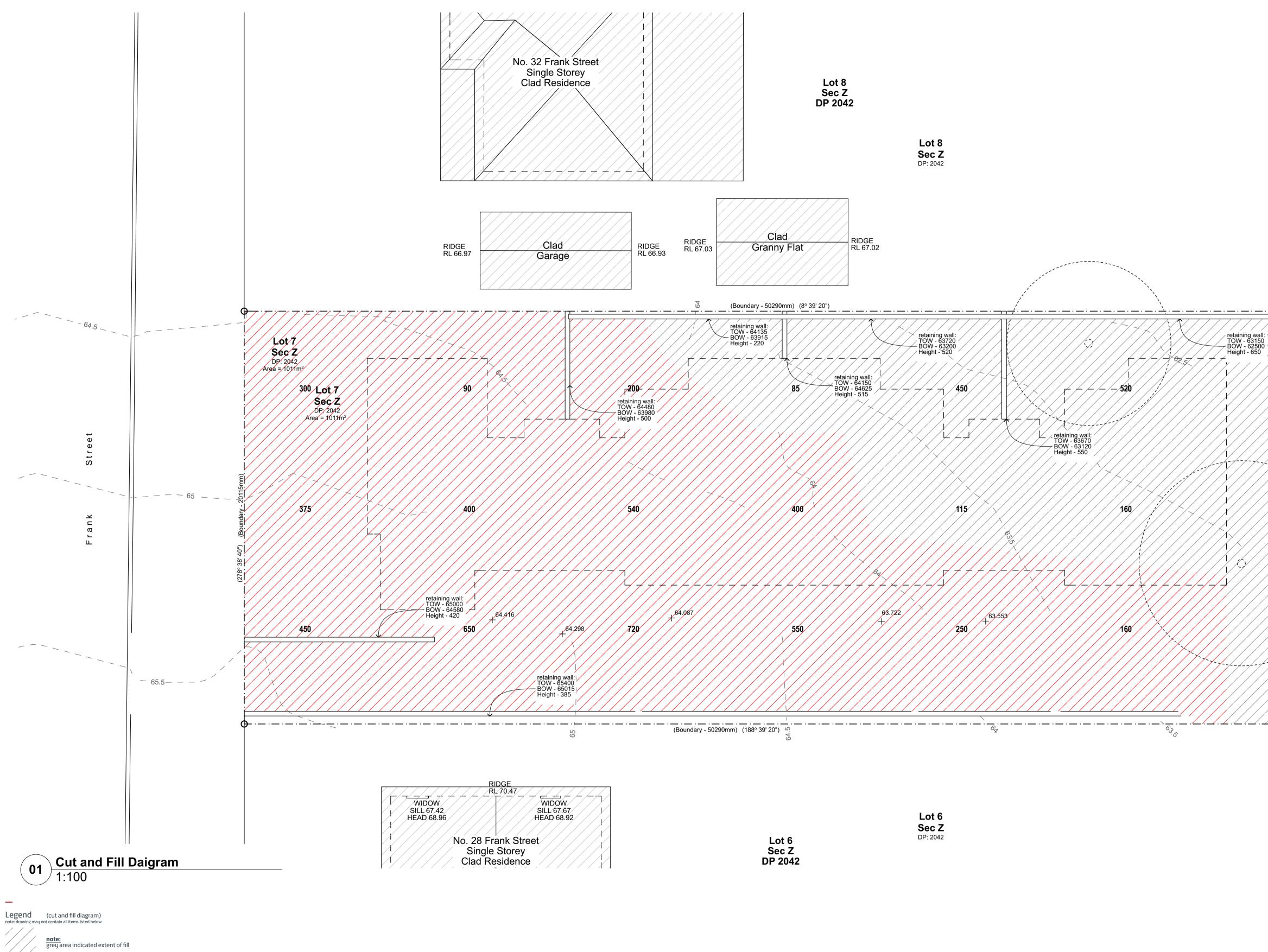
____ Drawn; JOK, CP Checked; JOK Plot date; 4/6/19 _____ Scale; 1:100 as noted @ AI

____ Project No; 2158.17 _____

Drawing No; DA02 _

Amendment#; 03

Site & External Works Plan



note: red area indicated extent of cut

approx. depth of cut and fill in millimetres

----- indicates outline of new buildings — · — — indicates site boundaries

50

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	DA Issue Council Amendedments



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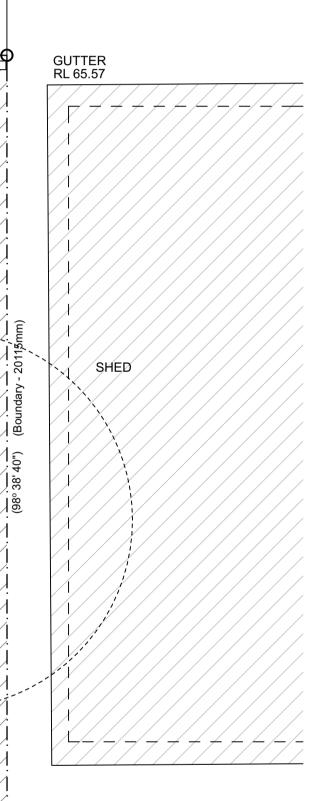
Scale; 1:100 as noted @ AI ____

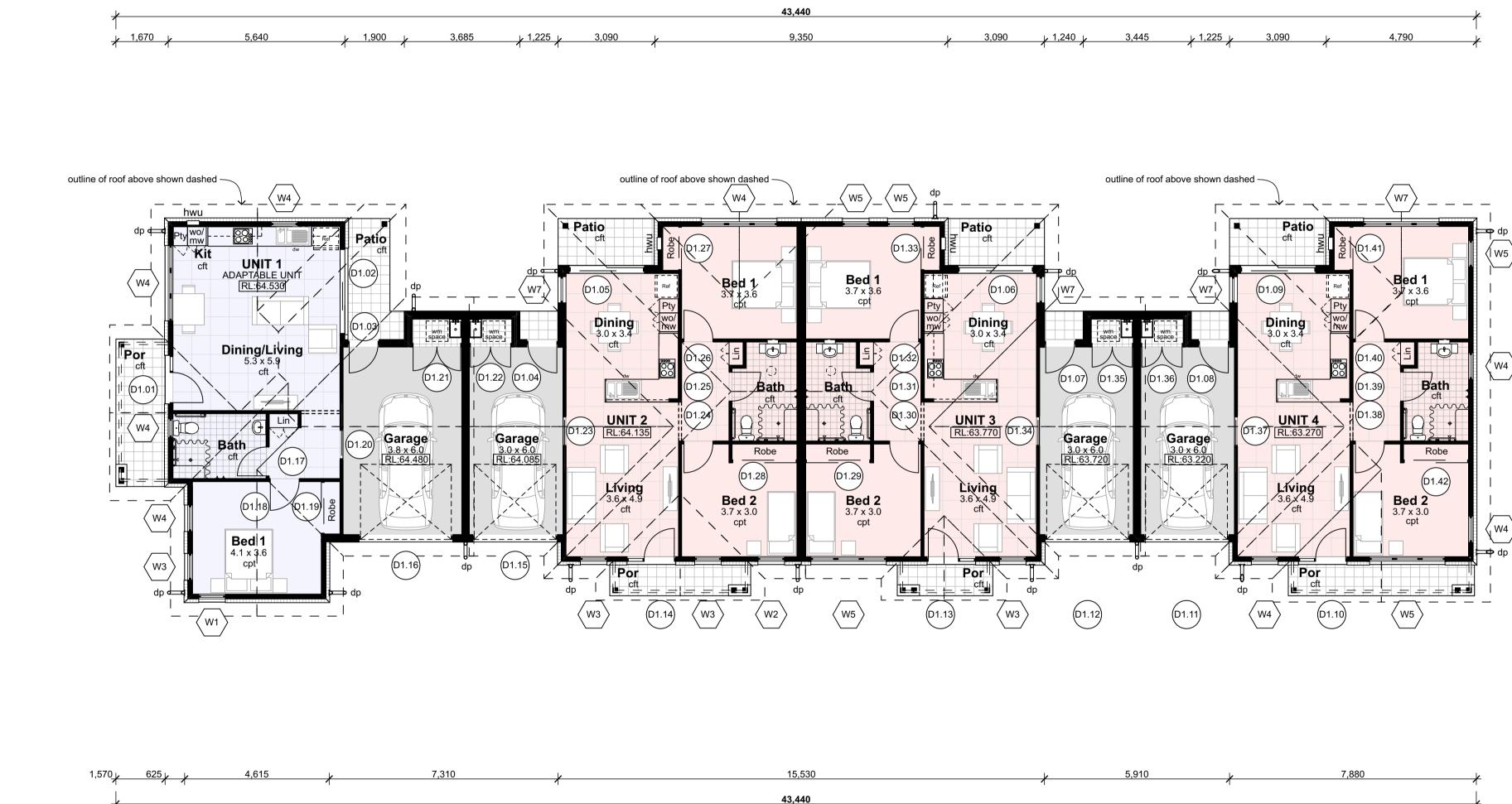
Project No; 2158.17 ____

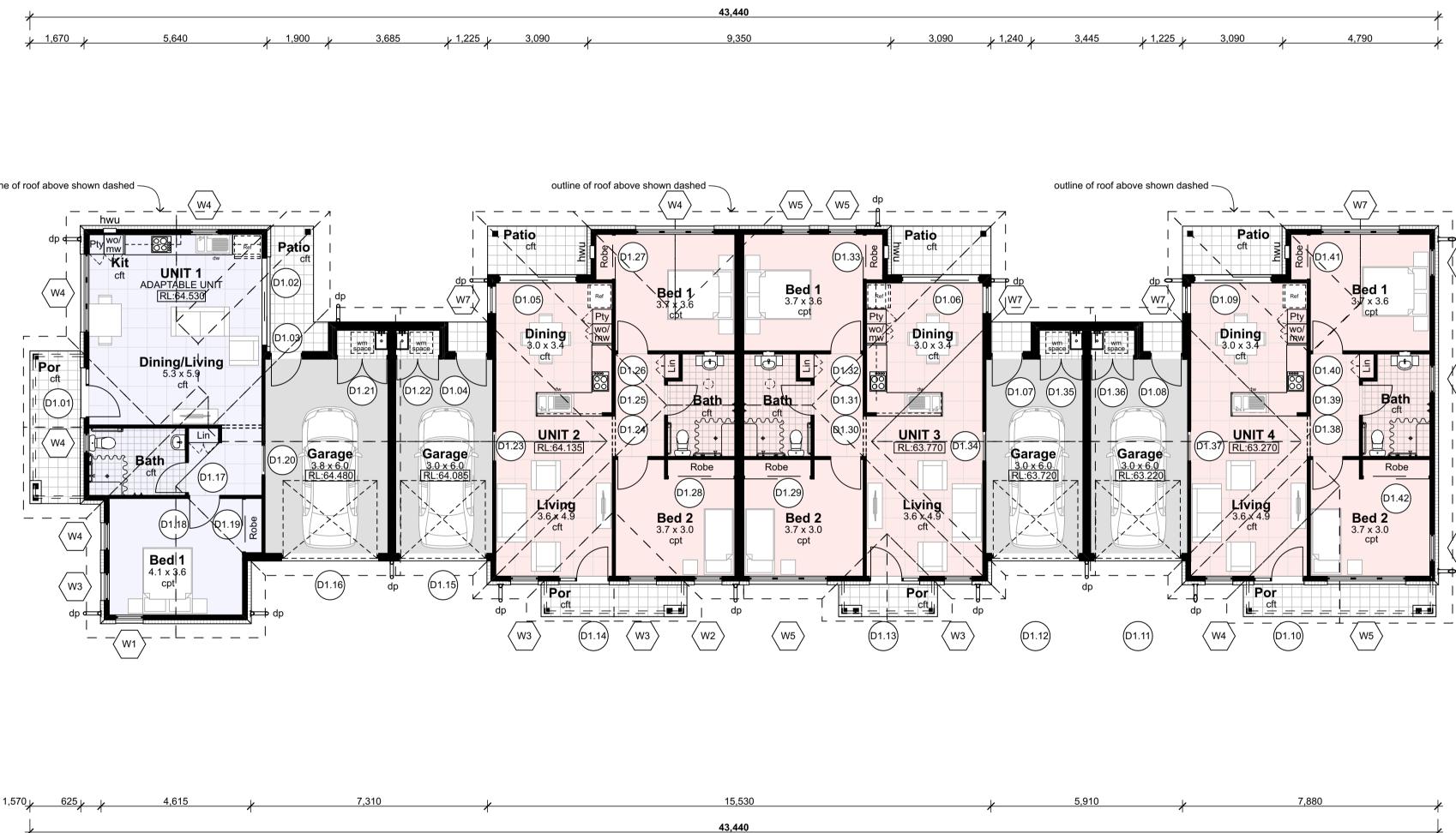
Drawing No; DA03 ____

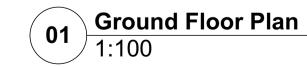


Cut and Fill Plan









Legeno	d (floor plans) g may not contain all items listed below	bsn	basin	gtd	grated drain	robe	wardrobe	WO	wall oven
\frown		cft(1)	ceramic floor tile (type)	hr(1)	handrail (type)	rw(1)	retaining wall (type)	wm	washing machine space
(D01)	door numbers (as scheduled)	cl	clothes line	ht	hose tap	rwt	rainwater tank		
\bigcirc	(prefix ex. for existing door)	col	column	hwu	hot water unit	snk	sink		
		cpt(1)	carpet (type)	hyd	hydrant	SC	steel column		
	window numbers (as scheduled)	ct	cooktop	kr	kerb ramp	shr	shower		
(W01)	(prefix ex. for existing window)	dp	downpipe	lb	letter box	sk	skylight/skytube		
ар	access panel	fb(1)	face brickwork (type)	lin	linen cupboard	sl	sliding door		
bal(1)	balustrade (type)	fs	fridge space	mw	microwave	st	store		
bfc	broom finish concrete	fw	floor waste	pmp	permeable pavers	sv(1)	sheet vinyl (type)		
bol	bollard	gb	garbage bin	pty	pantry	swp	storm water pit		
brm	broom cupboard	gt	gate	ref	refridgerator	vp	vent pipe		

- +

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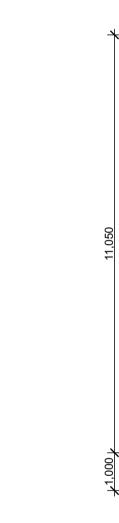
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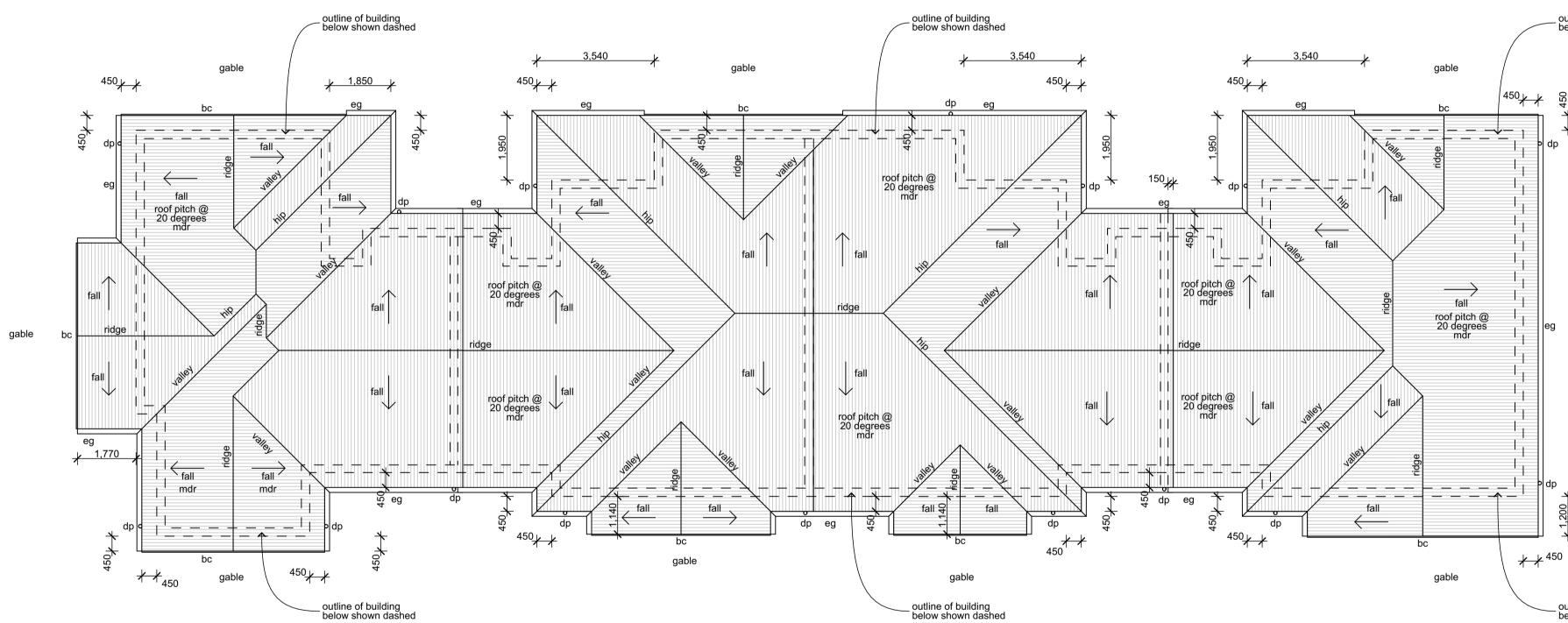
— Drawn; JOK, CP Checked; JOK Plot date; 4/6/19 ____ Scale; 1:100 as noted @ Al

____ Project No; 2158.17 ____

Drawing No; DA04 —

Amendment#; 03

Ground Floor Plan





____ Legend (roof plans) note: drawing may not contain all items listed below access panel ap

bc	barge capping
dp	downpipe
eg	eaves gutter
ex.	existing
fg	flashing
gu	gutter
mdr	metal deck roof sheeting
of	overflow
рс	parapet capping
pv	photovoltaic cells

roof ridge capping rwh rainwater head skylight/skytube vent pipe

rrc

sk

vp

note: 1. provide flashings and cappings to all roof penetrations in accordance with roof

- manufacturers details 2. provide gutter-guards to all guttering
- throughout 3. metal roof sheeting to comply with AS1562.1

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Scale; 1:100 as noted @ Al —

Project No; 2158.17 ____

Drawing No; DA05 ____

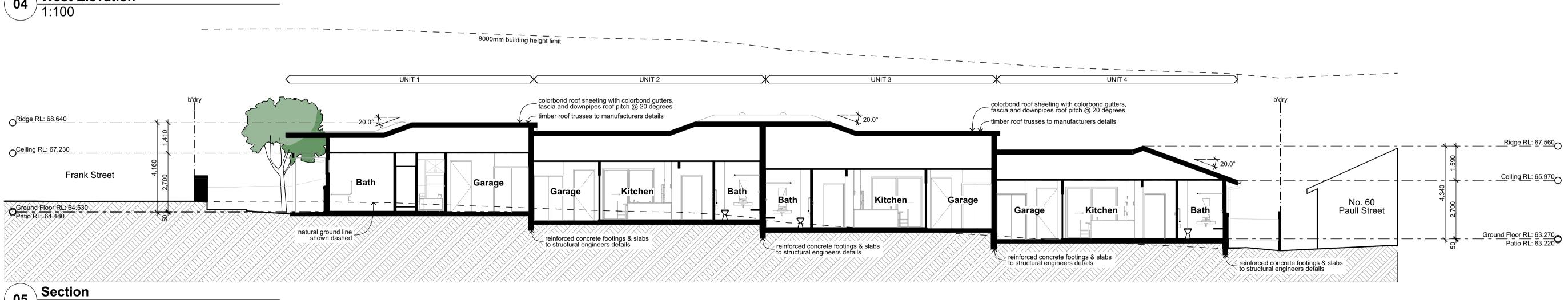
Amendment#; 03

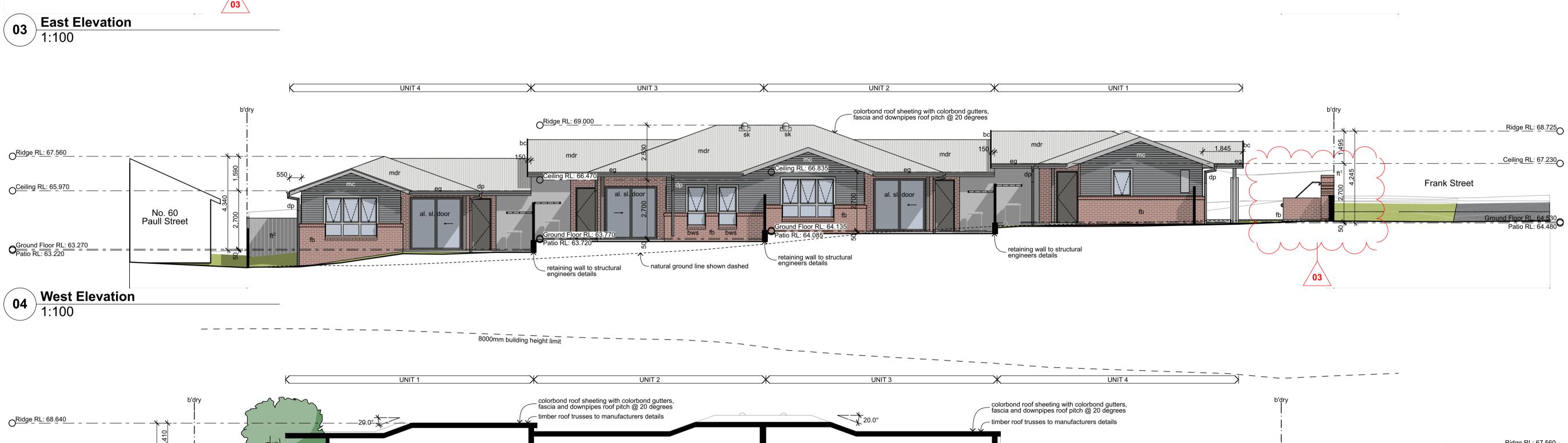
Roof Plan

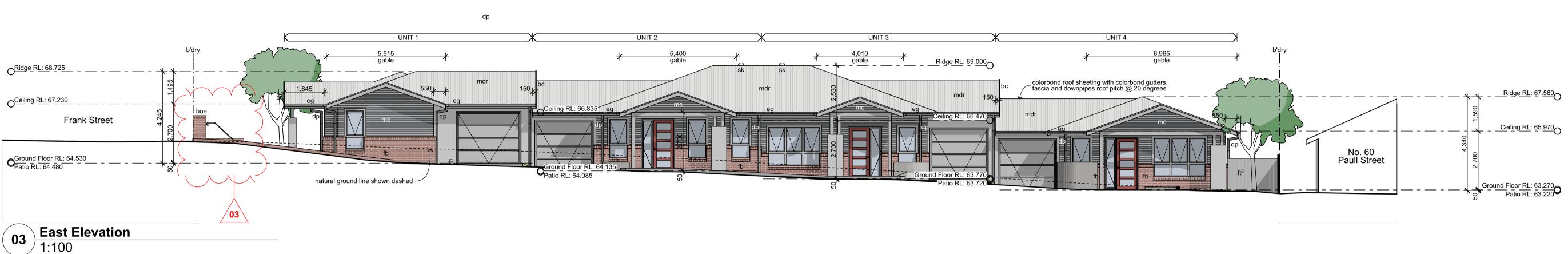
_ outline of building below shown dashed

outline of building below shown dashed

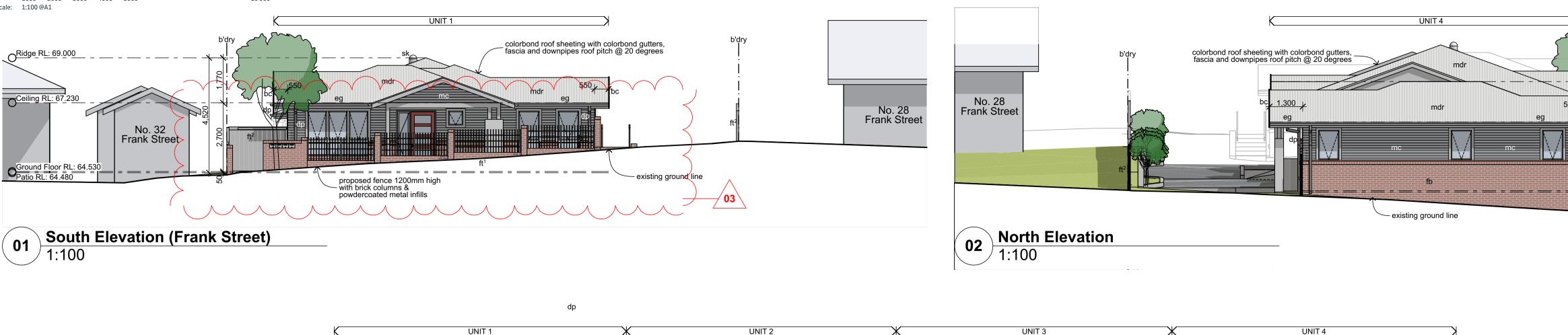
agag pipeegeaves guttermc(1)metal cladding (type)scsteel columnindicativelyalvadjustable louvreseglexisting ground linemdrmetal deck roofskskylight/skytube2. refer to enalwaluminium framed window£x.existingolvoperable louvresslsliding doorbal(1)balustrade (type)fixed sash windowp(1)paint (type)ss(1)sun shade (type)							1:100	05
back back coupsedback back coupsedback back coupsedback back coupsedbhcbrick header coursefclfinished ceiling levelpvphotovoltaic cellsboebrick on edgefflfinished floor levelrcrendered concretebwsbrickwork sillflvfixed louvresrprendere & paint finishcfccompessed fibre cementglground linersroller shutterconc.concretegtgaterwretaining wall	sliding sash window1. all handrails, balustrades & la indicatively only. refer to det skylight/skytubesliding door2. refer to engineer's drawings	s sc sk sl	fixed louvres metal cladding (type) metal deck roof operable louvres paint (type) plasterboard photovoltaic cells rendered concrete render & paint finish roller shutter	flv mc(1) mdr olv p(1) pbd pv rc rp rs	downpipe eaves gutter existing ground line existing fixed sash window face brickwork (type) finished ceiling level finished floor level fixed louvres ground line	dp eg egl éx. fb(1) fcl ffl flv gl	(elevation & sections) may not contain all items listed below air conditioner condenser ag pipe adjustable louvres aluminium framed window balustrade (type) barge capping brick header course brick on edge brickwork sill compessed fibre cement	note: drawing ac ag alv alw bal(1) bc bhc boe bws cfc







01



& louvres shown detail drawings for clarity. ngs for final co-ordination.

7.560 Ridae R 550 eiling RL: $\frac{70}{10}$ _____ No. 32 Frank Street ² = ____ = ____ = Ground Floor <u>RL</u>: 63.270 Patio RL: 63.220 retaining wall to structural engineers details

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____ Project No; 2158.17

Drawing No; DA06 _

Amendment#; 03

Elevations & Sections



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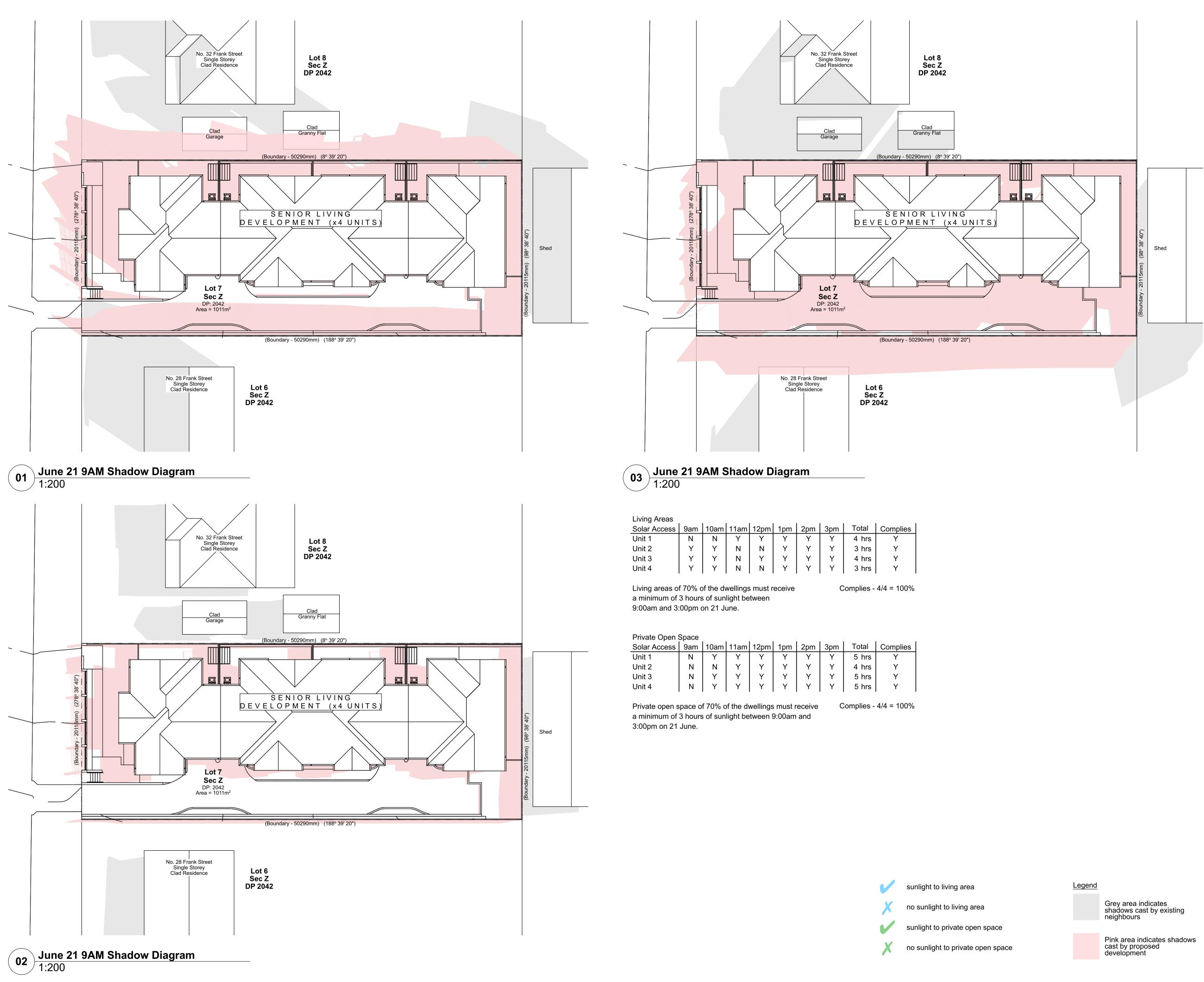
_____ Project No;

2158.17 ____ Drawing No;

DA07

Amendment#; 02

Soft Landscaping and Deep Soil



	sunlight to living area
X	no sunlight to living area
	sunlight to private open space
X	no sunlight to private open spa

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01	Revised DA Issue	04.06.19





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____ Scale; 1:200 as noted @ Al

Project No; 2158.17 ____

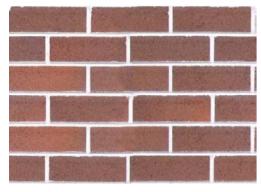
Drawing No; DA08 ____

Amendment#; 01

Shadow Diagrams

External Colour Selection

30 Frank Street, Mount Druitt, NSW



Face Brick (fb) PGH Bricks - Dry Pressed Colour: "Macarthur Mix"

Rendered and painted (rp) External walls & Columns

DULUX - SW1G1 Vivid White

Gutters, fascias, downpipes, steel columns

DULUX - Colorbond Shale Grey

Doors

DULUX - S04E8 Deep Garnet



Metal Cladding (mc) Colorbond "Easyclad" Colour: "Woodland Grey"



Metal Deck Roofing (mdr) Colorbond "Custom-Orb" Colour: "Shale Grey"



rendered & painted (rp) -

rendered & painted (rp) metal deck roofing (mdr) -

face brick (fb) -

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DAISSUE

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Aboriginal Housing Office, Seniors Living Development x 4 Units 30 Frank Street, Mount Druitt, NSW

External Colour Selection

Project No; 2158.17

Drawing No; DA09

Amendment#; 03

Scale; N.T.S @ A3

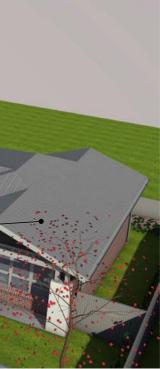
Drawn; JOK, CP

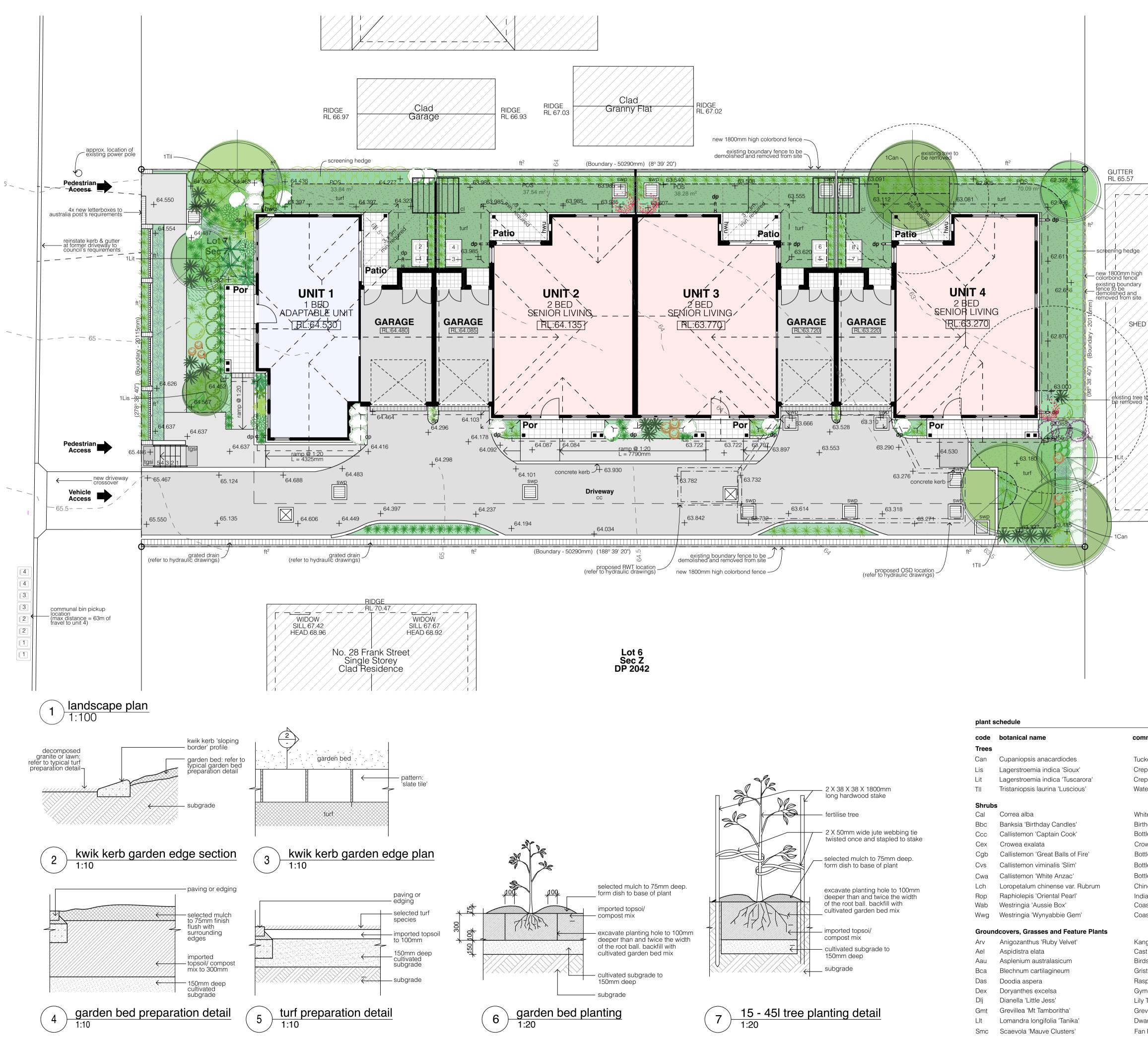
Plot date; 4/6/19

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legend:

RI (

not

te: drawi ms listed	ng may not contain all I below
• 00.00	proposed levels
	air conditioner condenser
С	accessible
bc	ageing, disability & home care
	access panel
l(1)	balustrade (type)
)	broom finished concrete
е	brick on edge
	bollard
	clothes line
	column
	downpipe
D	doorpost
	existing
1)	facebrick work (type)
)	fence (type)
	garbage bin
	gate
k	grated drain
1)	handrail (type)
	hose tap
u	hot water unit
d	hydrant
	kerb ramp
	letter box
;	off form concrete
(1)	power pole
(1)	retaining wall (type)
n	steel float concrete storm water pit
р	trowel finished concrete
si	tactile ground surface indicator
V	top of wall
v D	wood float concrete
2455	ex.contours & banking line
3	existing trees to be retained
·)	existing trees to be removed
_	In the basely second and a darks of

– – – kwik kerb garden edging fencing -for all fencing materials and types refer to the architects plans.

proposed trees

planting areas ensure that the mass planting areas have been excavated to 300mm below finished levels. rip to a further depth of 150mm. supply and install 300mm soil mix. soil mix to comprise of one part ensured comprets to these parts to poil approved compost to three parts top soil. topsoil shall be either imported topsoil or stockpiled site topsoil (if suitable ie. no clay). install 75mm of selected mulch. mulch to be non toxic shredded pine flakes (25 x 4 x 2mm) turf

excavate/ grade areas to be turfed to 120mm below the required finished levels. do not excavate with 1500mm of any existing tree to be retained. ensure that all of the surface water runoff is to be directed towards the inlet pits, kerbs etc. ad away from buildings. ensure that no pooling or ponding will occur. rip subgrade to 150mm deep. install 100mm depth of imported topsoil. just prior to spreading turf, spread 'shirleys no. 17 lawn fertiliser' over the topsoil at the recommended rate. lay Sir Walter Buffalo turf rolls closely butted. fill any small gaps with topsoil. water thoroughly.

note maintenance: all landscape works are to be maintained for a period of six months from the date of completion. this includes all watering, weeding, spraying and remulching necessary to achieve vigorous growth. any defects which arise during this period are to be rectified immediately. any plants or areas of turf which fail during this period are to be replaced at no additional cost.

nmon name	mature height	pot size	stake
keroo	8.0m	35L	yes
pe Myrtle	4.0m	35L	yes
pe Myrtle	6.0m	35L	yes
ter Gum	10.0m	35L	yes
ite Correa	1.5m	200mm	yes
hday Candles	0.4m	200mm	no
tlebrush	2.0m	200mm	yes
owea	0.5m	200mm	no
tlebrush	1.5m	200mm	no
tlebrush	3.0m	200mm	yes
tlebrush	1.5m	200mm	yes
nese Fringe Flowe	er 1.5m	200mm	yes
ian Hawthorne	1.0m	200mm	no
astal Rosemary	0.6m	200mm	no
astal Rosemary	1.0m	200mm	no
ngaroo Paw	1.0m	200mm	no
st Iron Plant	0.8m	200mm	no
ds Nest Fern	1.0m	200mm	no
stle Fern	0.7m	200mm	no
sp Fern	0.5m	140mm	no
mea Lily	1.2m	140mm	no
Turf	0.4m	140mm	no
evillea	0.3m	140mm	no
arf Mat Rush	0.5m	140mm	no
n Flower	0.1m	140mm	no

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2	Revised DA Issue	03.06.18







botanique design po box 462 berry nsw 2535 p. 0404 887 620



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-----Drawn; MM Checked; JOK Plot date; 4/6/19

Scale; 1:100, 1:10, 1:20 as noted @ AI

Project No; 2158.17

Drawing No; L01 _



Landscape Plan

PROPOSED DEVELOPMENT

30 Frank St, Mount Druitt NSW greenview Job No: 171243

GENERAL NOTES

- 1. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE NOMINATED OR APPLICABLE COUNCIL SPECIFICATION.
- 2. THE CONTRACTOR SHOULD REPORT ANY DISCREPANCIES ON THE DRAWINGS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN.
- 3. CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE PERMISSION OF THE OWNER. 4. SURPLUS EXCAVATED MATERIAL SHALL BE PLACED WHERE
- DIRECTED OR REMOVED FROM SITE.
- 5. ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING. 6. ALL DRAINAGE LINES THOUGH ADJACENT LOTS SHALL BE
- CONTAINED WITHIN EASEMENTS CONFORMING TO COUNCIL'S STANDARDS
- 7. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL PROVIDE A TRAFFIC MANAGEMENT PLAN PREPARED BY AN ACCREDITED PERSON IN ACCORDANCE WITH RMS REQUIREMENTS, FOR ANY WORK ON OR ADJACENT TO PUBLIC
- ROADS, PLAN TO BE SUBMITTED TO COUNCIL & RMS AS REQUIRED. 8. THESE PLANS SHALL BE A READ IN CONJUNCTION WITH OTHER RELEVANT CONSULTANTS' PLANS, SPECIFICATIONS, CONDITIONS OF DEVELOPMENT CONSENT AND CONSTRUCTION CERTIFICATE REQUIREMENTS
- 9. THE BUILDER/CONTRACTOR SHALL LOCATE ALL EXISTING PUBLIC UTILITY SERVICES WITHIN THE SITE, FOOTPATH AREA AND ROAD RESERVE PRIOR TO THE COMMENCEMENT OF ANY WORKS. ALL LOCATIONS AND LEVELS OF SERVICES SHALL BE REPORTED TO THE STORMWATER ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS TO ENSURE THERE ARE NO OBSTRUCTIONS IN THE LINE OF THE DRAINAGE DISCHARGE PIPES
- 10. THE BUILDER IS TO VERIFY ALL LEVELS ON SITE PRIOR TO COMMENCING CONSTRUCTION. 11. ALL THE CLEANING EYES (OR INSPECTION EYES) FOR THE
- UNDERGROUND PIPES HAVE TO BE TAKEN UP TO THE FINISHED GROUND LEVEL FOR EASY IDENTIFICATION AND MAINTENANCE PURPOSES 12. ALL TERRACE FLOOR AND PLANTER GRATES TO HAVE FIRE
- COLLARS FITTED 13. ALL PITS HAVING AN INTERNAL DEPTH THAT EXCEEDS 1.0m SHALL BE PROVIDED WITH GALVANIZED STEP IRON'S AT 300 mm CENTRES PLACED IN A STAGGERED PATTERN AND SHALL BE IN
- ACCORDANCE WITH THE AUSTRALIAN STANDARDS AS4198-1994 14. ALL MULCHING TO BE USED WITHIN THE AREA DESIGNATED AS ON SITE DETENTION STORAGE SHALL BE OF A NON-FLOATABLE
- MATERIAL SUCH AS DECORATIVE RIVER GRAVEL. BARK MULCHING SHALL NOT BE USED WITHIN THE DETENTION STORAGE AREA. 15 PRIOR TO COMMENCING ANY WORKS ON THE SITE THE BUILDER SHALL ENSURE THAT THE INVERT LEVELS OF WHERE THE SITE STORMWATER SYSTEM CONNECTION INTO COUNCIL'S
- KERB/DRAINAGE SYSTEM MATCH THE DESIGN LEVELS. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY. 16. GREENVIEW IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY
- SURVEY INFORMATION PROVIDED ON THIS DRAWING. 17. ALL LEVELS SHOWN ARE EXPECTED TO BE TO A.H.D.
- 18. ALL CHAINAGES AND LEVELS ARE IN METERS, AND DIMENSIONS IN MILLIMETRES, UNLESS NOTED OTHERWISE. 19. THE SURVEY INFORMATION ON THIS DRAWING HAS BEEN
- PROVIDED BY THE ARCHITECT 20. CONTRACTORS SHALL ARRANGE FOR THE WORKS TO BE SET OUT
- BY A REGISTERED SURVEYOR. 21. W.A.E DRAWINGS BY A REGISTERED SURVEYOR ARE REQUIRED PRIOR TO CERTIFICATION OF DRAINAGE.
- 22. WHERE THESE PLANS ARE NOTED FOR DEVELOPMENT APPLICATION PURPOSES ONLY, THEY SHALL NOT BE USED FOR OBTAINING A CONSTRUCTION CERTIFICATE NOR USED FOR CONSTRUCTION PURPOSES WITHOUT WRITTEN APPROVAL.

RAINWATER REUSE SYSTEM NOTES

- 1. RAINWATER SUPPLY PLUMBING TO BE CONNECTED TO OUTLETS WHERE REQUIRED BY BASIX CERTIFICATE (BY OTHERS)
- 2. NO DIRECT CONNECTION BETWEEN TOWN WATER SUPPLY AND THE RAINWATER SUPPLY
- 3. PROVIDE AN APPROVED STOP VALVE AND/OR PRESSURE LIMITING VALVE AT THE RAINWATER TANK
- 4. PROVIDE AT LEAST ONE EXTERNAL HOSE COCK ON THE TOWN
- WATER SUPPLY FOR FIRE FIGHTING 5. PROVIDE APPROPRIATE FLOAT VALVE AND/OR SOLENOID VALVES
- TO CONTROL TOWN WATER SUPPLY INLET TO TANK IN ORDER TO ACHIEVE THE TOP-UP INDICATED ON THE TYPICAL DETAIL
- 6. ALL PLUMBING WORKS ARE TO BE CARRIED OUT BY LICENSED PLUMBERS IN ACCORDANCE WITH AS/NZ3500.1 NATIONAL
- PLUMBING AND DRAINAGE CODE. 7. PRESSURE PUMP ELECTRICAL CONNECTION TO BE CARRIED OUT
- BY A LICENSED ELECTRICIAN. 8. ONLY ROOF RUN-OFF IS TO BE DIRECTED TO THE RAINWATER
- TANK SURFACE WATER INLETS ARE NOT TO BE CONNECTED. 9. PIPE MATERIALS FOR RAINWATER SUPPLY PLUMPING ARE TO BE APPROVED MATERIALS TO AS/NZ3500 PART 1 SECTION 2 AND TO BE CLEARLY AND PERMANENTLY IDENTIFIED AS 'RAINWATER'. THIS MAY BE ACHIEVED FOR BELOW GROUND PIPES USING IDENTIFICATION TAPE (MADE IN ACCORDANCE WITH AS2648) OR FOR ABOVE GROUND PIPES BY USING ADHESIVE PIPE MARKERS (MADE IN ACCORDANCE WITH AS1345)
- 10. EVERY RAINWATER SUPPLY OUTLET POINT AND THE RAINWATER TANK ARE TO BE LABELED 'RAINWATER' ON A METALLIC SIGN IN ACCORDANCE WITH AS1319
- 11. ALL INLETS AND OUTLETS TO THE RAINWATER TANK ARE TO HAVE SUITABLE MEASURES PROVIDED TO PREVENT MOSQUITO AND VERMIN ENTRY. 12. ALL DOWNPIPES CHARGED TO THE RAINWATER TANK ARE TO BE
- SEALED UP TO GUTTER LEVEL AND BE PRESSURE TESTED AND CERTIFIED 13. TOWN WATER CONNECTION TO RAINWATER TANK TO BE TO THE
- SATISFACTION OF THE REGULATORY AUTHORITY. THIS MAY **REQUIRE PROVISION OF**
- 13.1. PERMANENT AIR GAP 13.2. BACKFLOW PREVENTION DEVICE

EARTHWORK NOTES

- 1. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY FARTHWORKS
- 2. THE CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES AND DEBRIS ETC. TO THE EXTENT OF THE PROPOSED
- DEVELOPED AREA. 3. PROVIDE PROTECTION BARRIERS TO PROTECTED/SENSITIVE AREAS
- PRIOR TO ANY BULK EXCAVATION. 4. OVER FULL AREA OF EARTHWORKS, CLEAR VEGETATION, RUBBISH, SLABS ETC. AND STRIP TOP SOIL. AVERAGE 200mm THICK. REMOVE FROM SITE, EXCEPT TOP SOIL FOR RE-USE
- 5. CUT AND FILL OVER THE SITE TO LEVELS REQUIRED. 6 PRIOR TO ANY FILLING IN AREAS OF CUT OR IN EXISTING GROUND PROOF ROLL THE EXPOSED SURFACE WITH A ROLLER OF MINIMUM
- WEIGHT OF 5 TONNES WITH A MINIMUM OF 10 PASSES. 7. EXCAVATE AND REMOVE ANY SOFT SPOTS ENCOUNTERED DURING PROOF ROLLING AND REPLACE WITH APPROVED FILL COMPACTED IN LAYERS. THE WHOLE OF THE EXPOSED SUBGRADE AND FILL SHALL BE COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM
- MOISTURE CONTENT ± 2%. 8. FOR ON SITE FILLING AREAS. THE CONTRACTOR SHALL TAKE LEVELS OF EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO
- COMMENCING FILL OPERATIONS. 9. WHERE HARD ROCK IS EXPOSED IN THE EXCAVATED SUB-GRADE, THIS WILL BE INSPECTED AND A DECISION MADE ON THE LEVEL TO WHICH EXCAVATION IS TAKEN.
- 10. FILL IN 200mm MAXIMUM (LOOSE THICKNESS) LAYERS TO UNDERSIDE OF BASECOURSE USING THE EXCAVATED MATERIAL AND COMPACTED TO 98% STANDARD (AS 1289 5.1.1) MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2% SHOULD THERE BE INSUFFICIENT MATERIAL FROM SITE EXCAVATIONS, IMPORT AS NECESSARY CLEAN GRANULAR FILL TO APPROVAL
- 11. COMPACTION TESTING SHALL BE CARRIED OUT AT THE RATE OF 2 TESTS PER 1000SQ METRES PER LAYER BY A REGISTERED NATA LABORATORY. THE COSTS OF TESTING AND RE-TESTING ARE TO BE ALLOWED FOR BY THE BUILDER.
- 12. BATTERS TO BE AS SHOWN, OR MAXIMUM 1 VERT : 4 HORIZ. 13. ALL CONDUITS AND MAINS SHALL BE LAID PRIOR TO LAYING FINAL
- PAVEMENT 14. ALL BATTERS AND FOOTPATHS ADJACENT TO ROADS SHALL BE TOP SOILED WITH 150mm APPROVED LOAM AND SEEDED UNLESS OTHERWISE SPECIFIED.

SAFETY IN DESIGN NOTES

THERE ARE INHERENT RISKS WITH CONSTRUCTING, MAINTAINING, OPERATING, DEMOLISHING, DISMANTLING AND DISPOSING. WE NOTE THIS DESIGN IS TYPICAL OF SIMILAR DESIGNS. AS FAR AS IS REASONABLY PRACTICABLE RISKS HAVE BEEN ELIMINATED OR MINIMISED THROUGH THE DESIGN PROCESS. HAZARD CONTROLS MUST STILL BE IMPLEMENTED BY THE CONTRACTOR, OWNER OR OPERATOR TO ENSURE THE SAFETY OF WORKERS, GREENVIEW ASSESSMENT DID NOT IDENTIFY ANY UNIQUE RISKS ASSOCIATED WITH THE DESIGN.

DRAINAGE INSTALLATION

RCP CONVENTIONAL

INSTALLATIONS & ROAD CROSSINGS

- ACCORDANCE WITH THESE DRAWINGS, THE COUNCIL SPECIFICATION AND THE CURRENT APPLICABLE AUSTRALIAN STANDARDS.
- BACKFILL SHALL BE PLACED & COMPACTED IN ACCORDANCE WITH THE SPECIFICATION. A GRANULAR GRAVEL AGGREGATE MATERIAL (<10mm) BACKFILL IS RECOMMENDED FOR THE BEDDING, HAUNCH SUPPORT AND SIDE ZONE DUE TO IT'S SELF COMPACTING ABILITY.
- 3. A MINIMUM OF 150mm CLEARANCE IS TO BE PROVIDED BETWEEN THE OUTSIDE OF THE PIPE BARREL AND THE TRENCH WALL FOR PIPES < 600 DIA. 200mm CLEARANCE FOR PIPES 600 TO 1200 DIA AND D/6 CLEARANCE FOR PIPES > 1200 DIA.
- 4. BEDDING OF THE PIPELINES IS TO BE TYPE 'HS2' IN ACCORDANCE WITH THE STANDARDS AND AS FOLLOWS: a.COMPACTED GRANULAR MATERIAL IS TO COMPLY WITH THE

	FOLLOWING GRADINGS:						
M 19 2.3600 0.6000 0.3000 0.1						0.1500	0.0750
	% MASS PASSING	100	50-100	20-90	10-60	0-25	0-10

BEDDING ZONE UP TO 0.3 TIMES PIPE OUTSIDE DIAMETER. THIS REPRESENTS THE 'HAUNCH ZONE.

d. THE BEDDING & HAUNCH ZONE MATERIAL IS TO BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 98% WITHIN ROAD RESERVES AND TRAFFICABLE AREAS AND 95% ELSEWHERE FOR COHESIVE MATERIAL OR A MINIMUM DENSITY INDEX OF 70% IN ACCORDANCE WITH THE STANDARDS FOR COHESIONLESS MATERIAL

e.COMPACTION TESTING SHALL BE CARRIED OUT BY AN APPROVED ORGANISATION WITH A NATA CERTIFIED LABORATORY FOR ALL DRAINAGE LINES LAID WHOLLY OR IN PART UNDER THE KERB & GUTTER OR PAVEMENT

STORMWATER DRAINAGE NOTES

- CURRENT AUSTRALIAN STANDARDS INCLUDING AS3500.3 , NCC AND COUNCIL'S SPECIFICATION. PIPES OF 225mm DIA. AND UNDER SHALL BE UPVC
- RUBBER RING JOINTED UNO. 4. ALL FRC OR RCP STORMWATER PIPES WITHIN ROAD RESERVE AREAS TO BE
- CLASS 3 U.N.O. BY COUNCILS SPECIFICATION. 5. PIPES SHALL GENERALLY BE LAID AT THE GRADES INDICATED ON THE DRAWINGS.
- 6. MINIMUM COVER TO PIPES 300mm DIA. AND OVER GENERALLY SHALL BE 600mm IN CARPARK & ROADWAY AREAS UNO 7. ALL PIPES LOCATED IN LANDSCAPE AREAS TO HAVE 300mm COVER. WHERE NOT POSSIBLE AND COVER IS BETWEEN 150mm AND 300mm USE SEWER
- GRADE PIPE PIPES 225mm DIA AND OVER SHALL BE LAID AT 0.5% MIN. GRADE U.N.O. PIPES UP TO 150mm DIA SHALL BE LAID AT 1.0% MIN. GRADE U.N.O . BACKFILL TRENCHES WITH APPROVED FILL COMPACTED IN 200mm LAYERS TO 98% OF STANDARD DENSITY.
- 11. ANY PIPES OVER 16% GRADE SHALL HAVE CONCRETE BULKHEADS AT ALL JOINTS
- LESS THAN 90mm DIA FOR CLASS 1 BUILDINGS AND 100mm DIA FOR OTHER CLASSES OF BUILDING OR AS REQUIRED BY THE REGULATORY AUTHORITY.
- FINAL LOCATIONS. ALL ROOF GUTTERING AND DOWNPIPES TO THE CURRENT AUSTRALIAN STANDARDS.
- 14. ALL DOWNPIPES TO BE CONSTRUCTED OF ONE MATERIAL FOR AESTHETICS REASONS AND PAINTED TO PROTECT THEM AGAINST ULTRA-VIOLET LIGHT DAMAGE, UNLESS APPROVED OTHERWISE BY HE PROJECT ARCHITECT.
- 15. BUILD INTO UPSTREAM FACE OF ALL PITS A 3.0m SUBSOIL LINE ALLING TO PITS TO MATCH PIT INVERTS
- OTHERWISE 17. ALL DRIVEWAY & OSD PITS TO BE 600 SQUARE UNLESS NOTED OTHERWISE.
- STORMWATER DRAINAGE LINE.
- POSSIBLE, ALL EXCAVATIONS IN VICINITY OF TREE ROOTS ARE TO BE HAND DUG
- 20. GEOTEXTILE FABRIC TO BE PLACED UNDER RIP RAP SCOUR PROTECTION WHERE APPLICABLE 21. ALL BASES OF PITS TO BE BENCHED (TO HALF PIPE DEPTH) TO THE INVERT OF
- THE OUTLET PIPE AND PROVIDE GALVANISED ANGLE SURROUNDINGS TO GRATE
- ARE TO BE CONFIRMED BY THE ENGINEER PRIOR TO THE COMMENCEMENT 23. ALL BALCONIES AND ROOFS TO BE DRAINED AND TO HAVE SAFETY
- OVERFLOWS IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS. 24. ALL GRATES TO HAVE CHILDPROOF LOCKS
- 25. ALL DOWNPIPES TO HAVE LEAF GUARDS 26. ALL WORK WITHIN COUNCIL RESERVE AREAS TO BE INSPECTED BY COUNCIL
- PRIOR TO BACKFILLING. 27. COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO THE FINISHED LEVELS ONCE ISSUED BY COUNCIL.
- 29. ALL BALCONIES TO HAVE FLOOR WASTE AND 1% FALL WITH SAFETY OVERFLOW
- 30. ALL SUBSOIL DRAINAGE SHALL BE A MINIMUM OF Ø65mm AND SHALL BE PROVIDED WITH A FILTER SOCK. THE SUBSOIL DRAINAGE SHALL BE INSTALLED IN ACCORDANCE WITH DETAILS TO BE PROVIDED BY THE LANDSCAPE CONSULTANT
- 31. SUBSOIL DRAINAGE PIPES AND FITTINGS SHALL BE PERFORATED PLASTIC TO CURRENT AUSTRALIAN STANDARDS. LAY PIPES ON FLOOR OF TRENCH GRADED AT 1% MIN. AND OVERLAY WITH FILTER MATERIAL EXTENDING TO
- POLYPROPYLENE BETWEEN FILTER MATERIAL AND TOPSOIL. PROVIDE FLUSHING EYE'S AT HIGH POINTS OR TO COUNCILS REQUIREMENTS. 32. GRATES TO BE IN ACCORDANCE WITH TABLE BELOW:

PIT GRATE INLINE TYPE

GRATE TYPE	TRAFFIC CONDIT		
A - EXTRA LIGHT DUTY	FOOTWAYS AND AREAS AC PEDESTRUANS AND PEDAL		
B - LIGHT DUTY	FOOTWAYS THAT CAN BE N		
C - MEDIUM DUTY	MALLS AND PEDESTRIAN AF MOVING COMMERCIAL VEH		
D - HEAVY DUTY	CARRIGEWAYS OF ROADS / COMMERCIAL VEHICHLES.		
TABLE AS PER AS3996 - 2006. ENGINEER TO BE NOTIFIED ABOVE ARE EXCEEDED.			

33. COVER TO PIPE TO BE AS PER TABLE BELOW

COVER TABLE

LOCATION	PIPE TYF
LANDSCAPE	PVC
LANDSCAPE (SINGLE DWELLING)	PVC
UNDER TRAFFICABLE AREA	PVC
CONCRETE	STEEL
ROADS	RCP
	LANDSCAPE LANDSCAPE (SINGLE DWELLING) UNDER TRAFFICABLE AREA CONCRETE

5	04.06.19	MJE	ISSUED FOR APPROVAL				
4	13.09.18	MJE	OSD CALCS				
3	31.07.18	MJE	COUNCIL CHANGES				
2	19.03.18	MJE	ISSUED FOR APPROVAL				
1	15.03.18	MJE	ISSUED FOR APPROVAL				
REV.	DATE	BY	DESCRIPTION	REV.	DATE	BY	DESCRIPTION

-AND THE MATERIAL PASSING THE 0.075 SIEVE HAVING LOW PLASTICITY AS DESCRIBED IN APPENDIX D OF AS1726. b.BEDDING DEPTH UNDER THE PIPE TO BE 100mm. C BEDDING MATERIAL TO BE EXTENDED FROM THE TOP OF THE

1. STORMWATER DRAINAGE SHALL BE GENERALLY IN ACCORDANCE WITH

PIPES OF 300mm DIA. AND LARGER SHALL BE FRC OR CONCRETE CLASS 2

12. THE MINIMUM SIZES OF THE STORMWATER DRAINAGE PIPES SHALL NOT BE 13. DOWNPIPES SHOWN ARE INDICATIVE ONLY. REFER ARCHITECTURALS FOR

16. ALL COURTYARD & LANDSCAPED PITS TO BE 450 SQUARE UNLESS NOTED

18. ALL PLANTER BOXES AND BALCONIES TO BE CONNECTED TO THE PROPOSED 19. ALL STORMWATER DRAINAGE WORK TO AVOID TREE ROOTS. WHERE NOT

22. ANY VARIATION TO THAT WORKS AS SHOWN ON THE APPROVED DRAWINGS

28. WATER PROOF ALL CONCRETE BALCONIES & ROOFS TO ARCHITECTS DETAILS

WITHIN 200mm OF SURFACE. PROVIDE FILTER FABRIC OF PERMEABLE

ONS
ESSIBLE ONLY TO YCLISTS.
UNTED BY VEHICLES.
AS OPEN TO SLOW LES.
ID AREAS OPEN TO
OAD CONDITIONS LISTED
<i>I</i> :

Е	COVER		
	300		
	100		
	100 BELOW UNDERSIDE OF PAVEMENT		
	NIL BELOW UNDERSIDE OF PAVEMENT		
	500 BELOW UNDERSIDE OF PAVEMENT		

RECOMMENDED SAFETY SIGNS



BASEMENT PUMP OUT FAILURE WARNING SIGN 1. SIGN SHALL BE PLACED IN A CLEAR AND VISABLE LOCATION WHERE VEHICLES ENTER THE BASEMENT



CONFINED SPACE DANGER SIGN

- A CONFINED SPACE DANGER SIGN SHALL BE POSITIONED IN A LOCATION AT ALL ACCESS POINTS, SUCH THAT IT IS CLEARLY VISIBLE TO PERSONS PROPOSING TO ENTER THE BELOW GROUND TANKS CONFINED SPACE. - MINIMUM DIMENSIONS OF THE SIGN
- 300mm x 450mm (LARGE ENTRIES, SUCH AS DOORS) 250mm x 180mm (SMALL ENTRIES SUCH AS GRATES & MANHOLES) THE SIGN SHALL BE MANUFACTURED FROM COLOUR BONDED
- ALUMINUM OR POLYPROPYLENE SIGN SHALL BE AFFIXED USING SCREWS AT EACH CORNER OF THE

EXISTING SERVICES

DANGER
WHEN EXCAVATING WITHIN ANY SITE, FOOTPATH AND ROADWAY, ALL SERVICES SHALL BE LOCATED PRIOR TO
COMMENCEMENT OF THE EXCAVATION WORKS. CONTACT "DIAL BEFORE YOU DIG" ON

0 OR GOT THE WEB SITE "www.1100.com.

ABBREVIATIONS

DP	DOWN PIPE
FFL	PROPOSED FINISHED FLOOR LEVEL
GL	PROPOSED PIT SURFACE LEVEL
L	PROPOSED PIT INVERT LEVEL
0	INSPECTION OPENING
K&G	KERB & GUTTER
P	FINISHED PAVEMENT LEVEL
RCP	REINFORCED CONCRETE PIPE
RKG	ROLL KERB & GUTTER
RL	FINISHED SURFACE LEVEL
RWO	RAINWATER DRAINAGE OUTLET
RWT	PROPOSED RAINWATER TANK
ТК	TOP OF NEW KERB LEVEL
TOW	TOP OF NEW RETAINING WALL LEVEL
TWL	TOP OF WATER LEVEL
JPVC	RIGID PVC PIPE
VD	VERTICAL DROPPER

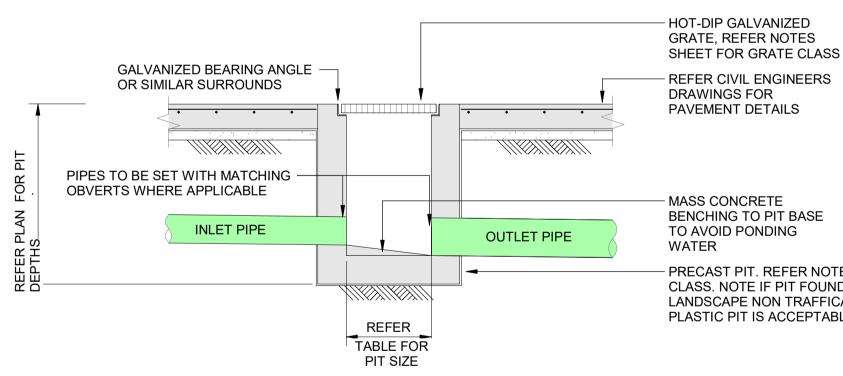
COLOUR LEGEND

- NEW (REFER TO SCHEDULES FOR COLOUR DEFINITION)
- EXISTING
- REMOVED OR RELOCATED

ATTACH TO PIT OR OSD WALL USING PROVIDED MOUNTING BRACKET RH3030 MAXIMESH SCREEN

> PROVIDE PRE-MADE TRASH SCREEN AS PER MASCOT ENGINEERING "MULTI-PURPOSE TRASH SCREENS" OR APPROVED EQUIVALENT

TYPICAL TRASH SCREEN DETAIL Scale: 1:10



1. ENSURE CLIMB IRONS ARE PROVIDED UNDER LID AT 300 CTS TO COUNCIL'S SPECIFICATIONS WHERE PIT DEPTH IS DEEPER THAN 1000. 2. GREENVIEW RECOMMENDS THE PLUMBER PROVIDES 90Dia x 3000 LONG SUBSOIL DRAINAGE STUB PIPE SURROUNDED WITH 100mm THICKNESS OF NOMINAL 20mm COARSE FILTER MATERIAL WRAPPED IN GEOTEXTILE FILTER FABRIC. (BIDUM A24 OR APPROVED SIMILAR). TO BE PARALLEL TO UPSTREAM SIDE OF EACH INLET PIPE. PIT SIZE

DEPTH	PIT DIMENSION
0 - 600	450 mm x 450 mm
600 - 900	600 mm x 600 mm
900 - 1200	600 mm x 900 mm
1200 +	900 mm x 900 mm

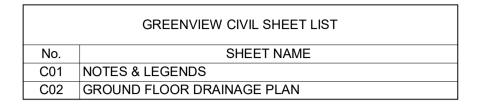
TYPICAL CONCRETE INLET PIT - CONCRETE SURFACE Scale: 1:20

DESIGN: AMcK DRAWN: MJE SCALE: As indicated SIZE: A1

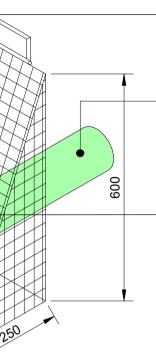




PROPOSED DEVELOPMENT 30 Frank St, Mount Druitt NSW Stanton Dahl



GALVANISED STEEL PLATE BRACKET FIXED TO WALL TO SUPPORT TRASH RACK



- LIFTING HANDLE TO MANUFACTURER SPECIFICATIONS

- OUTLET PIPE

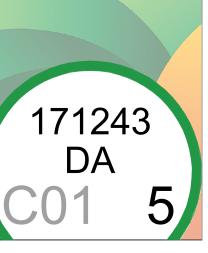
STAINLESS STEEL ORIFICE PLATE BOLTED AND EPOXIED TO PIT

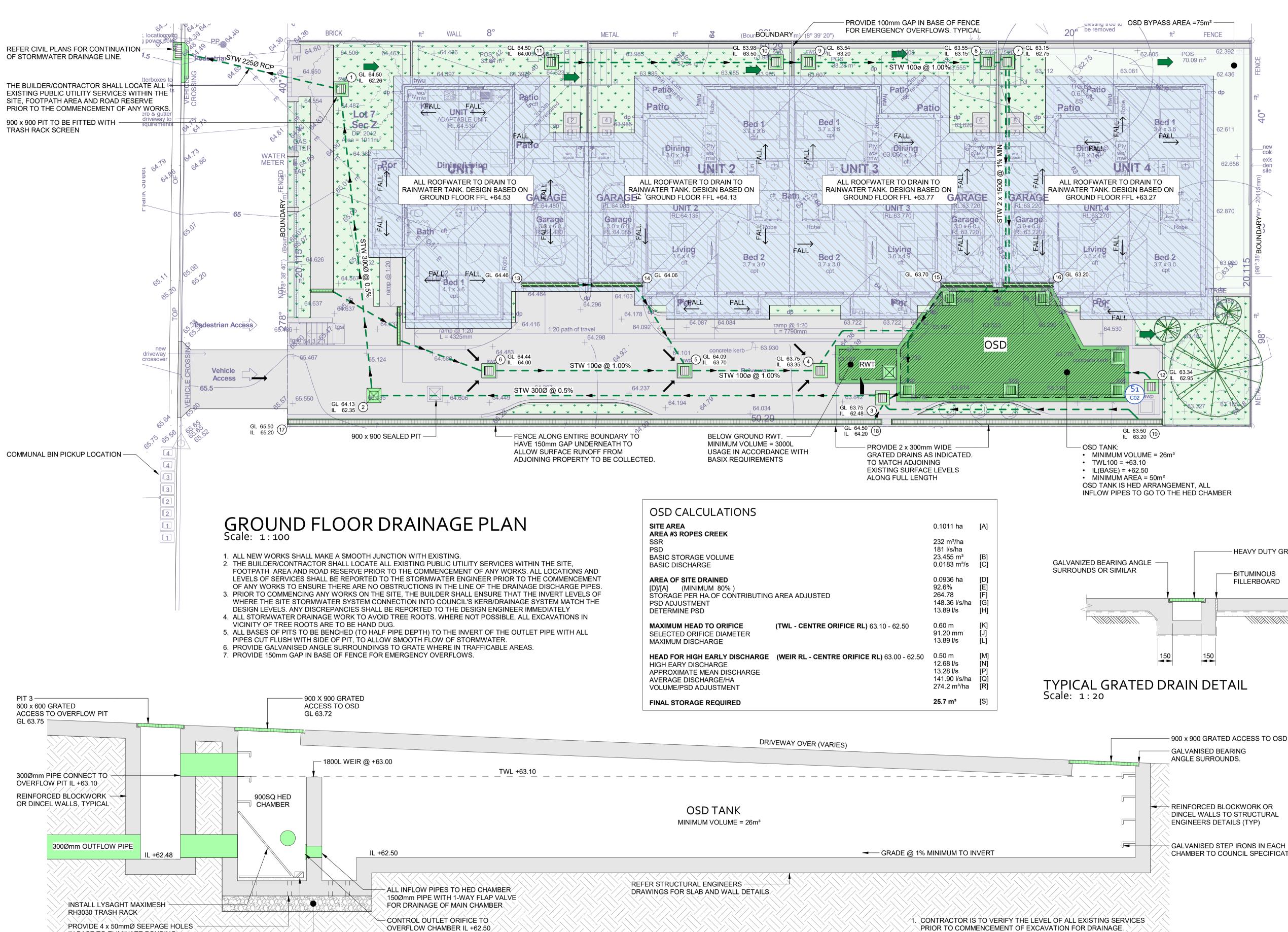
BENCHING TO PIT BASE

PRECAST PIT. REFER NOTES SHEET FOR CLASS. NOTE IF PIT FOUNDED WITHIN A LANDSCAPE NON TRAFFICABLE AREA, A PLASTIC PIT IS ACCEPTABLE



CIVIL DESIGN NOTES & LEGENDS





4 REMOVABLE BRICK KEEPERS OVER REPLACEABLE GEOTEXTILE FILTER FABRIC TO PREVENT CLOGGING OF SEEPAGE HOLES

 \sim IN BASE TO ELIMINATE PONDING \sim

S1 SECTION **C02** Scale: 1:25

				_				
5	04.06.19	MJE	ISSUED FOR APPROVAL					
4	13.09.18	MJE	OSD CALCS					
3	31.07.18	MJE	COUNCIL CHANGES					
2	19.03.18	MJE	ISSUED FOR APPROVAL					
1	15.03.18	MJE	ISSUED FOR APPROVAL					
REV.	DATE	BY	DESCRIPTION	REV.	DATE	BY	DESCRIPTION	

200mm OF 15mm CRUSHED

PERMANENT GEOTEXTILE FABRIC

AGGREGATE WRAPPED IN

PRIOR TO COMMENCEMENT OF EXCAVATION FOR DRAINAGE.

DESIGN: AMcK DRAWN: MJE SCALE: As indicated SIZE: A1



greenview CONSULTING

PROPOSED DEVELOPMENT 30 Frank St, Mount Druitt NSW Stanton Dahl

GENERAL LEGEND

• LANDSCAPE

- HARDSTAND
- ROOF AREA TO DRAIN
- OSD



PROPOSED TREES EXISTING TREES

CIV - FIXTURES SCHEDULE									
TYPE	DESCRIPTION								
	GRATED STORMWATER PIT								
	PERIMETER STRIP DRAIN								
	SEALED STORMWATER PIT								
 300W	GRATED STRIP DRAIN								

	CIV - STANDARD SYMBOLS
	DESCRIPTION
-	FALL ARROW
-	OVERLAND FLOW PATH
< FALL	ROOF FALL ARROW
	•

CIV - STORMWATER SERVICES								
	TYPE	DESCRIPTION						
	STW	STORMWATER						

- HEAVY DUTY GRATE - BITUMINOUS FILLERBOARD <u>IIKAIKAII</u>

CHAMBER TO COUNCIL SPECIFICATIONS



PROPOSED DEVELOPMENT

30 Frank St, Mount Druitt NSW greenview Job No: 171243

GENERAL INSTRUCTIONS

- 1. THIS SOIL AND WATER MANAGEMENT PLAN IS TO BE READ IN CONJUNCTION WITH OTHER ENGINEERING PLANS RELATING TO THIS DEVELOPMENT 2. CONTRACTORS WILL ENSURE THAT ALL SOIL AND WATER
- MANAGEMENT WORKS ARE UNDERTAKEN AS INSTRUCTED IN THIS SPECIFICATION AND CONSTRUCTED FOLLOWING THE GUIDELINES OF "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION". DEPT OF HOUSING, 1998 (BLUE BOOK),
- 3. ALL SUBCONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES IN REDUCING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE AREAS.
- 4. THESE PLANS SHALL BE READ IN CONJUNCTION WITH OTHER RELEVANT CONSULTANTS' PLANS, SPECIFICATIONS, CONDITIONS OF DEVELOPMENT CONSENT AND CONSTRUCTION CERTIFICATE REQUIREMENTS, WHERE DISCREPANCIES ARE FOUND NOTIFY ENGINEER IMMEDIATELY FOR VERIFICATION.
- WHERE THESE PLANS ARE NOTED FOR DEVELOPMENT APPLICATION PURPOSES ONLY. THEY SHALL NOT BE USED FOR OBTAINING A CONSTRUCTION CERTIFICATE NOR USED FOR CONSTRUCTION PURPOSES

LAND DISTURBANCE INSTRUCTIONS

- DISTURBANCE TO BE NO FURTHER THAN 5 (PREFERABLY 2) METRES FROM THE EDGE OF ANY ESSENTIAL ENGINEERING ACTIVITY AS SHOWN ON APPROVED PLANS, ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE ZONES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR
- MATERIALS 2. ACCESS AREAS ARE TO BE LIMITED TO A MAXIMUM WIDTH OF 10 METRES THE SITE MANAGER WILL DETERMINE AND MARK THE LOCATION OF THESE ZONES ON-SITE. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE BOUNDARIES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS
- 3. ENTRY TO LANDS NOT REQUIRED FOR CONSTRUCTION OR ACCESS IS PROHIBITED EXCEPT FOR ESSENTIAL THINNING OF PLANT GROWTH. 4. WORKS ARE TO PROCEED IN THE FOLLOWING SEQUENCE.
- A. INSTALL ALL BARRIER AND SEDIMENT FENCING WHERE SHOWN ON THE PLAN B. CONSTRUCT THE STABILISED SITE ACCESS.
- C CONSTRUCT DIVERSION DRAINS AS REQUIRED. D. INSTALL MESH AND GRAVEL INLETS FOR ANY ADJACENT KERB
- INI FTS E. INSTALL GEOTEXTILE INLET FILTERS AROUND ANY ON-SITE
- DROP INLET PITS F. CLEAR SITE AND STRIP AND STOCKPILE TOPSOIL IN LOCATIONS SHOWN ON THE PLAN.
- G. UNDERTAKE ALL ESSENTIAL CONSTRUCTION WORKS ENSURING THAT ROOF AND/OR PAVED AREA STORMWATER SYSTEMS ARE CONNECTED TO PERMANENT DRAINAGE AS SOON AS PRACTICABLE
- H. GRADE LOT AREAS TO FINAL GRADES AND APPLY PERMANENT STABILISATION (LANDSCAPING) WITHIN 20 DAYS OF COMPLETION OF CONSTRUCTION WORKS I. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER
- THE PERMANENT LANDSCAPING HAS BEEN COMPLETED. 5. ENSURE THAT SLOPE LENGTHS DO NOT EXCEED 80 METRES WHERE PRACTICABLE SLOPE LENGTHS ARE DETERMINED BY
- SILTATION FENCING AND CATCH DRAIN SPACING. 6. ON COMPLETION OF MAJOR WORKS LEAVE DISTURBED LANDS WITH A SCARIFIED SURFACE TO ENCOURAGE WATER INFILTRATION AND ASSIST WITH KEYING TOPSOIL LATER.

SITE MAINTENANCE INSTRUCTIONS

- 1. THE SITE SUPERINTENDENT WILL INSPECT THE SITE AT LEAST WEEKLY AND AT THE CONCLUSION OF EVERY STORM EVENT TO:
- A. ENSURE THAT DRAINS OPERATE PROPERLY AND TO EFFECT ANY NECESSARY REPAIRS. B. REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN 5 METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS
- ESPECIALLY WATERWAYS AND PAVED AREAS. C. REMOVE TRAPPED SEDIMENT WHENEVER THE DESIGN CAPACITY
- OF THAT STRUCTURE HAS BEEN EXCEEDED. D. ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND NOT TO INITIATE UPGRADING OR
- REPAIR AS NECESSARY. E. CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS. MAKE ONGOING CHANGES TO THE PLAN WHERE IT PROVES INADEQUATE IN PRACTICE OR IS SUBJECTED TO CHANGES IN CONDITIONS ON THE WORK-SITE OR ELSEWHERE IN THE CATCHMENT
- F. MAINTAIN EROSION AND SEDIMENT CONTROL STRUCTURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED.

THE SITE SUPERINTENDENT WILL KEEP A LOGBOOK MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL. ENTRIES WILL INCLUDE: A. THE VOLUME AND INTENSITY OF ANY RAINFALL EVENTS.

- B. THE CONDITION OF ANY SOIL AND WATER MANAGEMENT WORKS. THE CONDITION OF VEGETATION AND ANY NEED TO IRRIGATE. D. THE NEED FOR DUST PREVENTION STRATEGIES.
- E. ANY REMEDIAL WORKS TO BE UNDERTAKEN.

THE LOGBOOK WILL BE KEPT ON-SITE AND MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. IT WILL BE GIVEN TO THE PROJECT MANAGER AT THE CONCLUSION OF THE WORKS.

SAFETY IN DESIGN NOTES

1. THERE ARE INHERENT RISKS WITH CONSTRUCTING, MAINTAINING, OPERATING, DEMOLISHING, DISMANTLING AND DISPOSING, WE NOTE THIS DESIGN IS TYPICAL OF SIMILAR DESIGNS. AS FAR AS IS REASONABLY PRACTICABLE RISKS HAVE BEEN FLIMINATED OR MINIMISED THROUGH THE DESIGN PROCESS. HAZARD CONTROLS MUST STILL BE IMPLEMENTED BY THE CONTRACTOR. OWNER OR OPERATOR TO ENSURE THE SAFETY OF WORKERS. GREENVIEW ASSESSMENT DID NOT IDENTIFY ANY UNIQUE RISKS ASSOCIATED WITH THE DESIGN.

- SEDIMENT CONTROL INSTRUCTIONS
- 1. SEDIMENT FENCES WILL BE INSTALLED AS SHOWN ON THE PLAN AND ELSEWHERE AT THE DISCRETION OF THE SITE SUPERINTENDENT TO CONTAIN SOIL AS NEAR AS POSSIBLE TO THEIR SOURCE
- SEDIMENT FENCES WILL NOT HAVE CATCHMENT AREAS EXCEEDING 900 SQUARE METRES AND HAVE A STORAGE DEPTH OF AT LEAST 0.6 METRES
- 3. SEDIMENT REMOVED FROM ANY TRAPPING DEVICES WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS CANNOT OCCUR.
- STOCKPILES ARE NOT TO BE LOCATED WITHIN 5 METRES OF HAZARD AREAS INCLUDING AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS AND DRIVEWAYS.
- WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR WATER HAS BEEN TREATED BY AN APPROVED DEVICE.
- TEMPORARY SEDIMENT TRAPS WILL REMAIN IN PLACE UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.
- 7. ACCESS TO SITES SHOULD BE STABILISED TO REDUCE THE LIKELIHOOD OF VEHICLES TRACKING SOIL MATERIALS ONTO PUBLIC ROADS AND ENSURE ALL-WEATHER ENTRY/EXIT.

SOIL EROSION CONTROL INSTRUCTIONS

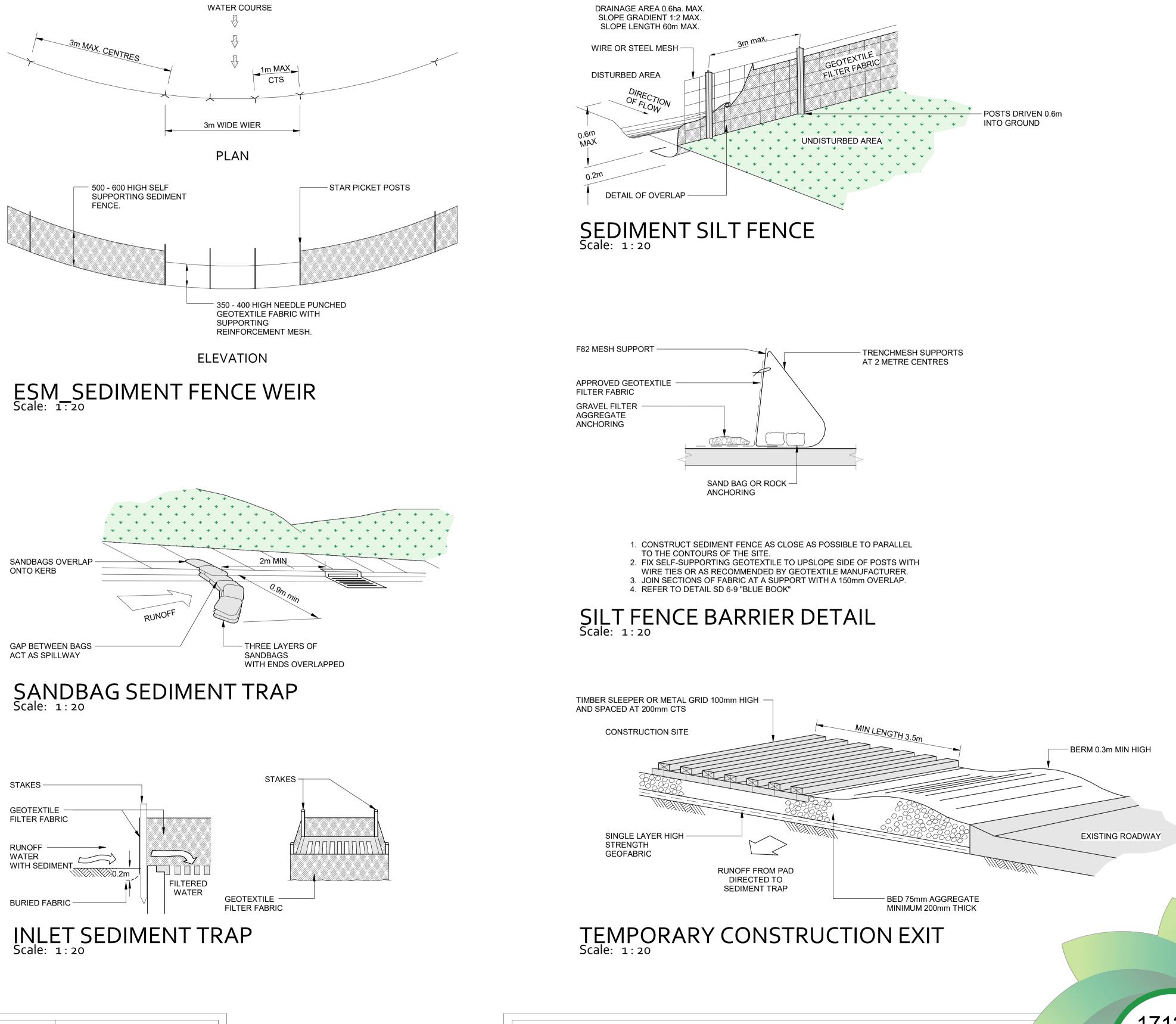
- 1. EARTH BATTERS WILL BE CONSTRUCTED WITH AS LOW A GRADIENT AS PRACTICABLE BUT NO STEEPER, UNLESS OTHERWISE NOTED. THAN 2(H):1(V) WHERE SLOPE LENGTH LESS THAN 12 METRES. • 2.5(H):1(V) WHERE SLOPE LENGTH BETWEEN 12 AND 16
- METRES 3(H):1(V) WHERE SLOPE LENGTH BETWEEN 12 AND 20 METRES. • 4(H):1(V) WHERE SLOPE LENGTH GREATER THAN 20 METRES. 2. ALL WATERWAYS, DRAINS, SPILLWAYS AND THEIR OUTLETS WILL BE CONSTRUCTED TO BE STABLE IN AT LEAST THE 1:20 YEAR AR
- TIME OF CONCENTRATION STORM EVENT WATERWAYS AND OTHER AREAS SUBJECT TO CONCENTRATED FLOWS AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUNDCOVER C-FACTOR OF 0.05 (70% GROUND COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION. FLOW VELOCITIES ARE TO BE LIMITED TO THOSE SHOWN IN TABLE 5-1 OF "MANAGING URBAN STORMWATER-SOILS AND CONSTRUCTION".
- DEPT OF HOUSING 1998 (BLUE BOOK). FOOT AND VEHICULAR TRAFFIC WILL BE PROHIBITED IN THESE AREAS. STOCKPILES AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.1 (60% GROUND-COVER) WITHIN
- 10 WORKING DAYS FROM COMPLETION OF FORMATION. ALL LANDS, INCLUDING WATERWAYS AND STOCKPILES, DURING CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.15 (50% GROUND COVER) WITHIN 20 WORKING DAYS
- FROM INACTIVITY EVEN THOUGH WORKS MAY CONTINUE LATER FOR AREAS OF SHEET FLOW USE THE FOLLOWING GROUND COVER PLANT SPECIES FOR TEMPORARY COVER: JAPANESE MILLET 20 KG/HA AND OATS 20 KG/HA.
- PERMANENT REHABILITATION OF LANDS AFTER CONSTRUCTION WILL ACHIEVE A GROUND-COVER C-FACTOR OF LESS THAN 0.1 AND LESS THAN 0.05 WITHIN 60 DAYS. NEWLY PLANTED LANDS WILL BE WATERED REGULARLY UNTIL AN EFFECTIVE COVER IS ESTABLISHED AND PLANTS ARE GROWING VIGOROUSLY, FOLLOW-UP SEED AND FERTILISER WILL BE APPLIED AS NECESSARY.
- REVEGETATION SHOULD BE AIMED AT RE-ESTABLISHING NATURAL SPECIES. NATURAL SURFACE SOILS SHOULD BE REPLACED AND NON-PERSISTANT ANNUAL COVER CROPS SHOULD BE USED.

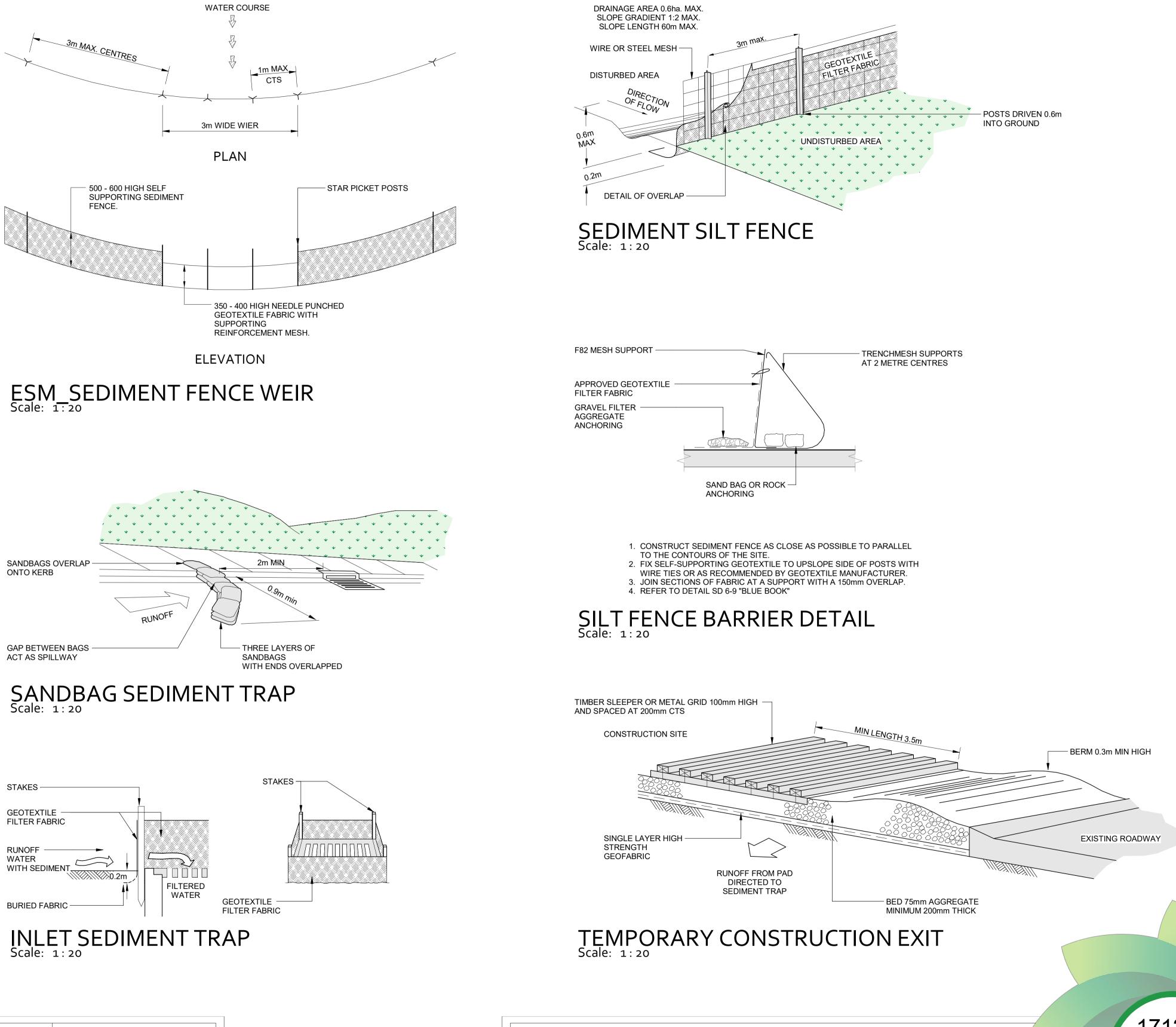
WASTE CONTROL INSTRUCTIONS 1. ACCEPTABLE BINS WILL BE PROVIDED FOR ANY CONCRETE AND

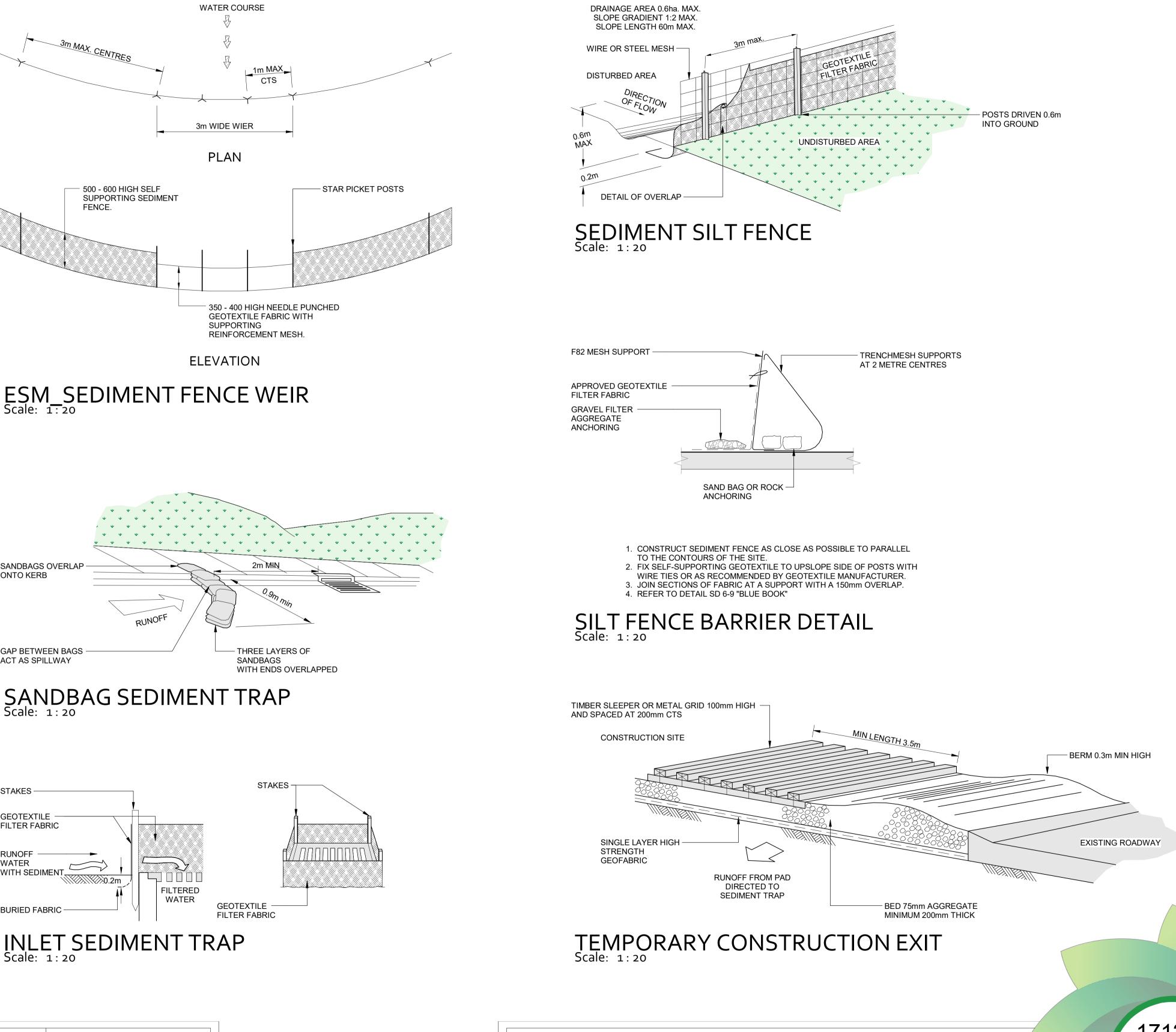
- MORTAR SLURRIES, PAINTS, ACID WASHING, LIGHTWEIGHT WASTE MATERIALS AND LITTER. CLEARANCE SERVICES WILL BE PROVIDED AT LEAST WEEKLY. DISPOSAL OF WASTE WILL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT
- ALL POSSIBLE POLLUTANT MATERIALS ARE TO BE STORED WELL CLEAR OF ANY POORLY DRAINED AREAS. FLOOD PHONE AREAS. STREAMBANKS, CHANNELS AND STORMWATER DRAINAGE AREAS
- STORE SUCH MATERIALS IN A DESIGNATED AREA UNDER COVER WHERE POSSIBLE AND WITHIN CONTAINMENT BUNDS. 3. ALL SITE STAFF AND SUB-CONTRACTORS ARE TO BE INFORMED OF THEIR OBLIGATION TO USE WASTE CONTROL FACILITIES
- PROVIDED ANY DE-WATERING ACTIVITIES ARE TO BE CLOSELY MONITORED
- TO ENSURE THAT WATER IS NOT POLLUTED BY SEDIMENT, TOXIC MATERIALS OR PETROLEUM PRODUCTS.
- PROVIDE DESIGNATED VEHICULAR WASHDOWN AND MAINTENANCE AREAS WHICH ARE TO HAVE CONTAINMENT BUNDS.

PROCEDURE FOR DE-WATERING ENSURE PERMISSION FOR DE-WATERING IS RECEIVED FROM

- AUTHORITIES BEFORE PUMPING OUT. AN ON-SITE TREATMENT PROCESS DISCHARGING TO THE STORMWATER SYSTEM WILL BE IMPLEMENTED. ALL SITE WATERS DURING CONSTRUCTION WILL BE CONTAINED ON SITE AND RELEASED ONLY WHEN pH IS BETWEEN 8.5 & 6.5, SUSPENDED SOLIDS ARE LESS THAN 50mg/L, TURBIDITY LESS THAN 100 NTU'S, OIL AND GREASE LESS THAN 10mg/L AND BIOCHEMICAL OXYGEN DEMAND (BOD5) LESS THAN 30mg/L (FOR STORMS LESS THAN 1 IN 5 YEAR EVENTS METHODS OF SAMPLING AND ANALYSIS OF WATER QUALITY WILL
- BE IN ACCORDANCE WITH THE APPLICABLE METHOD LISTED IN THE EPA PUBLISHED APPROVED METHODS FOR THE SAMPLING ANALYSIS OF WATER POLLUTANTS IN NEW SOUTH WALES.
- WHERE LABORATORY ANALYSIS IS REQUIRED AS INDICATED BY IN-SITU TESTING APPROPRIATE SAMPLE BOTTLES AND PRESERVATIVES WILL BE USED AND GUIDANCE FOR THE SAMPLING METHOD OBTAINED FROM APPLICABLE PARTS OF AS5667.1 AND AS5667.6. ANALYSIS WILL BE UNDERTAKEN WHERE PRACTICAL BY A NATA REGISTERED LABORATORY CERTIFIED TO
- PERFORM THE APPLICABLE ANALYSIS. AS EXCAVATION TO TOP SOIL PROGRESSES, ANY WATER COLLECTED AT THE BOTTOM OF EXCAVATIONS WILL BE DIVERTED TO A TEMPORARY SEDIMENTATION BASIN OR SETTLEMENT TANK. IF THE WATER CONTAINS ONLY SEDIMENTS, IT WILL BE FILTERED
- AND PUMPED TO STORMWATER. BEFORE THIS CAN HAPPEN IT MUST CONTAIN LESS THAN 50mg/L TOTAL SUSPENDED SOLIDS. POLLUTED WATER MUST NOT ENTER THE STORMWATER SYSTEM. IN SOME CIRCUMSTANCES, A LIQUID WASTE COMPANY MAY BE REQUIRED TO COLLECT CONTAMINATED WATER FOR DISPOSAL AT A LICENSED TREATMENT FACILITY.







1 19.03.18 MJE ISSUED FOR APPROVA REV. DATE BY DESCRIPTION REV. DATE BY DESCRIPTION

DESIGN: AMcK MJE DRAWN: SCALE: As indicated

SIZE:

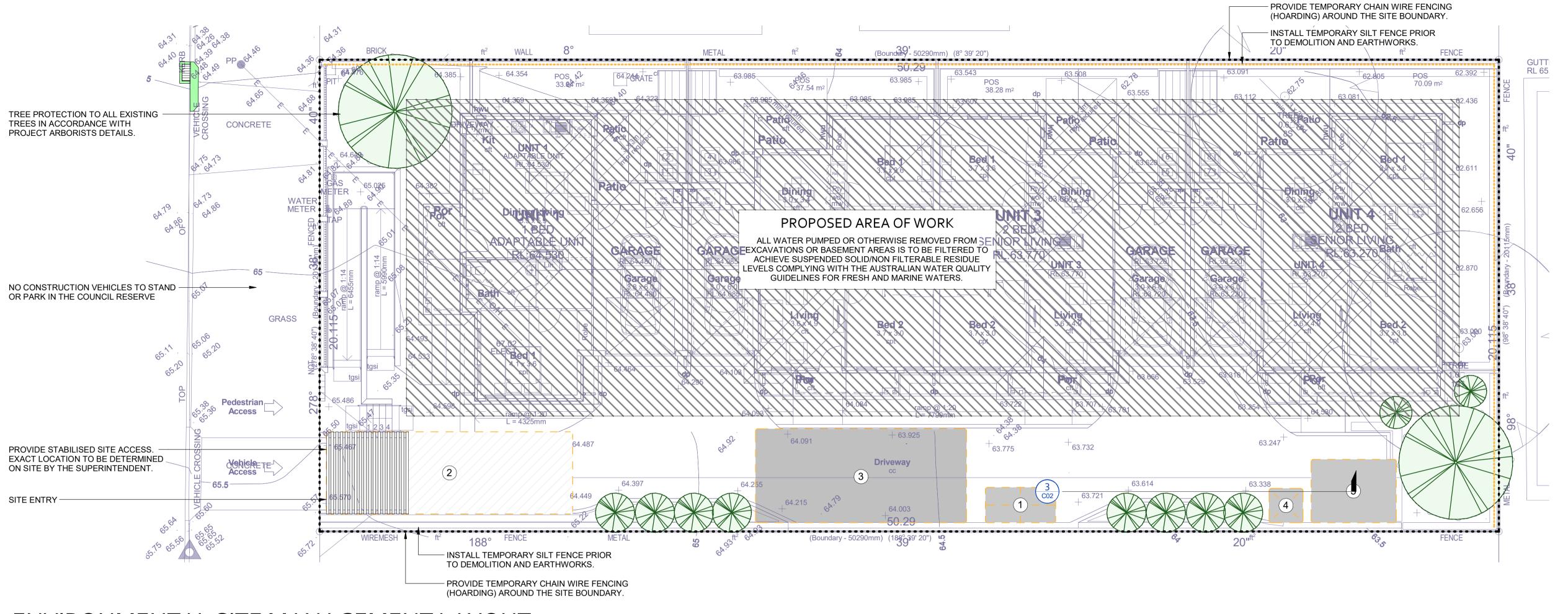


greenview

PROPOSED DEVELOPMENT 30 Frank St, Mount Druitt NSW Stanton Dahl







ENVIRONMENTAL SITE MANAGEMENT LAYOUT

1	19.03	.18	MJE	ISSUED FOR APPROVAL					
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DESIGN: AMcK DRAWN: SCALE: 1 : 100 SIZE:

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A1





PROPOSED DEVELOPMENT 30 Frank St, Mount Druitt NSW Stanton Dahl

SITE MANAGEMENT LEGEND

••••• • CHAIN WIRE FENCE SILT FENCE

ESM - SITE MANAGEMENT SCHEDULE							
TYPE DESCRIPTION							
1	SKIP BIN (PROVIDE COVER)						
2	SITE ACCESS GRATE						
3	MATERIALS STOCKPILE (RELOCATE AS NECESSARY)						
4	TOILET FACILITY						
5	SITE SHED						



EXTERNAL STORMWATER

PROJECT: SENIORS LIVING DEVELOPMENT

AT: 30 FRANK ST, MT DRUITT, NSW 2770

CLIENT: **ABORIGINAL HOUSING OFFICE**

PROJECT No: 171243

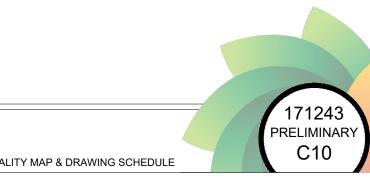
DRAWING SCHEDULEDRAWING No.DRAWING TITLEC10LOCALITY MAP & DRAWING SCHEDULEC11GENERAL NOTESC12STORMWATER LAYOUT PLANC13STORMWATER LAYOUT PLAN (ENLARGED)C14STORMWATER LONGSECTIONC15STORMWATER NOTES & DETAILSC16STORMWATER CATCHMENT PLAN									
C10LOCALITY MAP & DRAWING SCHEDULEC11GENERAL NOTESC12STORMWATER LAYOUT PLANC13STORMWATER LAYOUT PLAN (ENLARGED)C14STORMWATER LONGSECTIONC15STORMWATER NOTES & DETAILS		DRAWING SCHEDULE							
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C14STORMWATER LONGSECTIONC15STORMWATER NOTES & DETAILS	C12	STORMWATER LAYOUT PLAN							
C15 STORMWATER NOTES & DETAILS	C13	STORMWATER LAYOUT PLAN (ENLARGED)							
	C14	STORMWATER LONGSECTION							
C16 STORMWATER CATCHMENT PLAN	C15	STORMWATER NOTES & DETAILS							
	C16	STORMWATER CATCHMENT PLAN							
C17 EROSION AND SEDIMENT CONTROL PLAN	C17	EROSION AND SEDIMENT CONTROL PLAN							





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								DESIGN: DRAWN:			Nareenview	SENIORS LIVING DEVELOPMENT 30 FRANK ST, MT DRUITT, NSW 2770
В	04/06/2019	SR	ISSUED FOR CONSTRUCTION				, I L	SCALE:	N.T.S.			ABORIGINAL HOUSING OFFICE
A	31/07/2018	SR	ISSUED FOR REVIEW				$1 \setminus /$	SIZE:	A1			LOCA
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GENERAL NOTES

IN CASE OF DOUBT - ASK

- ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE NOMINATED OR APPLICABLE COUNCIL SPECIFICATION.
- ALL WORKS CARRIED OUT ON UTILITIES OR WITHIN A CLOSE VICINITY OF UTILITIES ARE TO BE UNDERTAKEN IN ACCORDANCE WITH THE RELEVANT UTILITY OWNERS REQUIREMENTS
- THE CONTRACTOR SHOULD REPORT ANY DISCREPANCIES ON THE DRAWINGS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN.
- CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE PERMISSION OF THE OWNER
- SURPLUS EXCAVATED MATERIAL SHALL BE PLACED WHERE DIRECTED OR REMOVED FROM SITE
- ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING
- ALL DRAINAGE LINES THOUGH ADJACENT LOTS SHALL BE CONTAINED WITHIN EASEMENTS CONFORMING TO COUNCIL'S STANDARDS.
- PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL PROVIDE A TRAFFIC MANAGEMENT PLAN PREPARED BY AN ACCREDITED PERSON IN ACCORDANCE WITH RMS REQUIREMENTS, FOR ANY WORK ON OR ADJACENT TO PUBLIC ROADS, PLAN TO BE SUBMITTED TO COUNCIL & RMS AS REQUIRED.
- THESE PLANS SHALL BE READ IN CONJUNCTION WITH OTHER RELEVANT CONSULTANTS' 10. PLANS, SPECIFICATIONS, CONDITIONS OF DEVELOPMENT CONSENT AND CONSTRUCTION CERTIFICATE REQUIREMENTS
- 11. THE BUILDER/CONTRACTOR SHALL LOCATE ALL EXISTING PUBLIC UTILITY SERVICES WITHIN THE SITE, FOOTPATH AREA AND ROAD RESERVE PRIOR TO THE COMMENCEMENT OF ANY WORKS
- 12. ALL LOCATIONS AND LEVELS OF SERVICES SHALL BE REPORTED TO THE STORMWATER ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS TO ENSURE THERE ARE NO OBSTRUCTIONS IN THE LINE OF THE DRAINAGE DISCHARGE PIPES.
- 13. THE BUILDER IS TO VERIFY ALL LEVELS ON SITE PRIOR TO COMMENCING CONSTRUCTION.
- ALL PITS HAVING AN INTERNAL DEPTH THAT EXCEEDS 1.2m SHALL BE PROVIDED WITH GALVANIZED STEP IRON'S AT 300mm CENTRES PLACED IN A STAGGERED PATTERN AND SHALL BE IN ACCORDANCE WITH THE COUNCIL STANDARDS
- 15. PRIOR TO COMMENCING ANY WORKS ON THE SITE, THE BUILDER SHALL ENSURE THAT THE INVERT LEVELS OF WHERE THE SITE STORMWATER SYSTEM CONNECTION INTO COUNCIL'S KERB/DRAINAGE SYSTEM MATCH THE DESIGN LEVELS. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY
- GREENVIEW IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY SURVEY INFORMATION PROVIDED ON THIS DRAWING.
- ALL LEVELS SHOWN ARE EXPECTED TO BE TO A.H.D.

CONSTRUCTION PURPOSES WITHOUT WRITTEN APPROVAL

- ALL CHAINAGES AND LEVELS ARE IN METERS, AND DIMENSIONS IN MILLIMETRES, UNLESS 18. NOTED OTHERWISE
- THE SURVEY INFORMATION ON THIS DRAWING HAS BEEN PROVIDED BY THE ARCHITECT. CONTRACTORS SHALL ARRANGE FOR THE WORKS TO BE SET OUT BY A REGISTERED 20
- SURVEYOR W.A.E DRAWINGS BY A REGISTERED SURVEYOR ARE REQUIRED PRIOR TO CERTIFICATION 21.
- OF DRAINAGE. 22. WHERE THESE PLANS ARE NOTED FOR DEVELOPMENT APPLICATION PURPOSES ONLY, THEY SHALL NOT BE USED FOR OBTAINING A CONSTRUCTION CERTIFICATE NOR USED FOR

EARTHWORK NOTES

- IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS
- THE CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES AND DEBRIS ETC. TO THE EXTENT OF THE PROPOSED DEVELOPED AREA. PROVIDE PROTECTION BARRIERS TO PROTECTED/SENSITIVE AREAS PRIOR TO ANY
- BUILK EXCAVATION OVER FULL AREA OF EARTHWORKS, CLEAR VEGETATION, RUBBISH, SLABS ETC. AND 4
- STRIP TOP SOIL. AVERAGE 200mm THICK. REMOVE FROM SITE, EXCEPT TOP SOIL FOR RF-USF
- CUT AND FILL OVER THE SITE TO LEVELS REQUIRED.
- PRIOR TO ANY FILLING IN AREAS OF CUT OR IN EXISTING GROUND, PROOF ROLL THE 6 EXPOSED SURFACE WITH A ROLLER OF MINIMUM WEIGHT OF 5 TONNES WITH A MINIMUM OF 10 PASSES
- EXCAVATE AND REMOVE ANY SOFT SPOTS ENCOUNTERED DURING PROOF ROLLING AND REPLACE WITH APPROVED FILL COMPACTED IN LAYERS.
- THE WHOLE OF THE EXPOSED SUBGRADE AND FILL SHALL BE COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2%.
- FOR ON SITE FILLING AREAS, THE CONTRACTOR SHALL TAKE LEVELS OF EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO COMMENCING FILL OPERATIONS.
- WHERE HARD ROCK IS EXPOSED IN THE EXCAVATED SUB-GRADE, THIS WILL BE INSPECTED AND A DECISION MADE ON THE LEVEL TO WHICH EXCAVATION IS TAKEN.
- FILL IN 200mm MAXIMUM (LOOSE THICKNESS) LAYERS TO UNDERSIDE OF BASECOURSE USING THE EXCAVATED MATERIAL AND COMPACTED TO 98% STANDARD (AS 1289 5.1.1). MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2%. SHOULD THERE BE INSUFFICIENT MATERIAL FROM SITE EXCAVATIONS, IMPORT AS NECESSARY CLEAN GRANULAR FILL TO APPROVAL
- COMPACTION TESTING SHALL BE CARRIED OUT AT THE RATE OF 2 TESTS PER 1000SQ 12. METRES PER LAYER BY A REGISTERED NATA LABORATORY. THE COSTS OF TESTING AND RE-TESTING ARE TO BE ALLOWED FOR BY THE BUILDER.
- BATTERS TO BE AS SHOWN, OR MAXIMUM 1 VERT : 4 HORIZ. 13
- ALL CONDUITS AND MAINS SHALL BE LAID PRIOR TO LAYING FINAL PAVEMENT. 1/. ALL BATTERS AND FOOTPATHS ADJACENT TO ROADS SHALL BE TOP SOILED WITH 150mm APPROVED LOAM AND SEEDED UNLESS OTHERWISE SPECIFIED.

SAFETY IN DESIGN NOTES

THERE ARE INHERENT RISKS WITH CONSTRUCTING, MAINTAINING, OPERATING, DEMOLISHING, DISMANTLING AND DISPOSING. WE NOTE THIS DESIGN IS TYPICAL OF SIMILAR DESIGNS. AS FAR AS IS REASONABLY PRACTICABLE RISKS HAVE BEEN ELIMINATED OR MINIMISED THROUGH THE DESIGN PROCESS. HAZARD CONTROLS MUST STILL BE IMPLEMENTED BY THE CONTRACTOR, OWNER OR OPERATOR TO ENSURE THE SAFETY OF WORKERS. GREENVIEW ASSESSMENT DID NOT IDENTIFY ANY UNIQUE RISKS ASSOCIATED WITH THE DESIGN.

DRAINAGE INSTALLATION, RCP CONVENTIONAL INSTALLATIONS

& ROAD CROSSINGS

- SUPPLY & INSTALLATION OF DRAINAGE WORKS TO BE IN ACCORDANCE WITH THESE DRAWINGS. THE COUNCIL SPECIFICATION AND THE CURRENT APPLICABLE AUSTRALIAN STANDARDS
- A MINIMUM OF 150mm CLEARANCE IS TO BE PROVIDED BETWEEN THE OUTSIDE OF THE 2 PIPE BARREL AND THE TRENCH WALL FOR PIPES < 600 DIA. 200mm CLEARANCE FOR PIPES 600 TO 1200 DIA AND D/6 CLEARANCE FOR PIPES > 1200 DIA
- COMPACTION TESTING SHALL BE CARRIED OUT BY AN APPROVED ORGANISATION 3 WITH A NATA CERTIFIED LABORATORY FOR ALL DRAINAGE LINES LAID WHOLLY OR IN PART UNDER THE KERB & GUTTER OR PAVEMENT
- CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR IS TO COMPLY WITH THE REQUIREMENTS OF THE WORKPLACE, HEALTH AND SAFETY ACT - 2011 AND IN PARTICULAR PART 13 OF THE WORKPLACE, HEALTH AND SAFETY REGULATIONS -EXCAVATIONS, TRENCHES, CAISSONS, COFFERDAMS AND TUNNELS (REGULATIONS 125 TO 131 INCLUSIVE).

STORMWATER DRAINAGE NOTES

- STORMWATER DRAINAGE SHALL BE GENERALLY IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARDS INCLUDING AS3500.3, NCC AND COUNCIL'S SPECIFICATION
- PIPES OF 225mm DIA. AND UNDER SHALL BE UPVC UNLESS NOTED OTHERWISE
- PIPES OF 300mm DIA. AND LARGER SHALL BE FRC OR CONCRETE CLASS 2 RUBBER RING JOINTED UNLESS NOTED OTHERWISE
- ALL FRC OR RCP STORMWATER PIPES WITHIN ROAD RESERVE AREAS TO BE CLASS 3 U.N.O. BY COUNCILS SPECIFICATION OR ON THESE PLANS.
- PIPES SHALL GENERALLY BE LAID AT THE GRADES INDICATED ON THE DRAWINGS MINIMUM COVER TO PIPES 300mm DIA. AND OVER GENERALLY SHALL BE 600mm IN CARPARK &
- ROADWAY AREAS LINO 7 ALL PIPES LOCATED IN LANDSCAPE AREAS TO HAVE 300mm COVER. WHERE NOT POSSIBLE
- AND COVER IS BETWEEN 150mm AND 300mm USE SEWER GRADE PIPE PIPES 225mm DIA AND OVER SHALL BE LAID AT 0.5% MIN. GRADE U.N.O
- PIPES UP TO 150mm DIA SHALL BE LAID AT 1.0% MIN GRADE U.N.O.
- 10. ANY PIPES OVER 16% GRADE SHALL HAVE CONCRETE BULKHEADS AT ALL JOINTS
- 11. THE MINIMUM SIZES OF THE STORMWATER DRAINAGE PIPES SHALL NOT BE LESS THAN 90mm DIA FOR CLASS 1 BUILDINGS AND 100mm DIA FOR OTHER CLASSES OF BUILDING OR AS REQUIRED BY THE REGULATORY AUTHORITY.
- 12. ANY DOWNPIPES SHOWN ARE INDICATIVE ONLY. REFER ARCHITECTURALS FOR FINAL LOCATIONS
- ALL ROOF GUTTERING AND DOWNPIPES TO THE CURRENT AUSTRALIAN STANDARDS. ALL 13. DOWNPIPES TO BE CONSTRUCTED OF ONE MATERIAL FOR AESTHETICS REASONS AND PAINTED TO PROTECT THEM AGAINST ULTRA-VIOLET LIGHT DAMAGE. UNLESS APPROVED OTHERWISE BY HE PROJECT ARCHITECT
- 14. BUILD INTO UPSTREAM FACE OF ALL PITS A 3.0m SUBSOIL LINE ALLING TO PITS TO MATCH PIT INVERTS
- 15. ALL COURTYARD & LANDSCAPED PITS TO BE 450 SQUARE UNLESS NOTED OTHERWISE.
- 16. ALL DRIVEWAY & OSD PITS TO BE 600 SQUARE UNLESS NOTED OTHERWISE.
- 17. ALL PLANTER BOXES AND BALCONIES TO BE CONNECTED TO THE PROPOSED STORMWATER DRAINAGE LINE
- 18. ALL STORMWATER DRAINAGE WORK TO AVOID TREE ROOTS. WHERE NOT POSSIBLE, ALL EXCAVATIONS IN VICINITY OF TREE ROOTS ARE TO BE HAND DUG.
- 10 GEOTEXTILE FABRIC TO BE PLACED UNDER RIP RAP SCOUR PROTECTION WHERE APPLICABLE 20. ALL BASES OF PITS TO BE BENCHED TO THE INVERT OF THE OUTLET PIPE AND PROVIDE
- GALVANISED ANGLE SURROUNDINGS TO GRATE. ANY VARIATION TO THE WORKS AS SHOWN ON THE APPROVED DRAWINGS ARE TO BE 21.
- CONFIRMED BY THE ENGINEER PRIOR TO THE COMMENCEMENT. 22. ALL BALCONIES AND ROOFS TO BE DRAINED AND TO HAVE SAFETY OVERFLOWS IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
- 23. ALL GRATES TO HAVE CHILDPROOF LOCKS
- 24. ALL DOWNPIPES TO HAVE LEAF GUARDS
- 25. ALL WORK WITHIN COUNCIL RESERVE AREAS TO BE INSPECTED BY COUNCIL PRIOR TO BACKFILLING.
- 26. COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO THE FINISHED LEVELS ONCE ISSUED BY COUNCIL
- 27. WATER PROOF ALL CONCRETE BALCONIES & ROOFS TO ARCHITECTS DETAILS
- ALL BALCONIES TO HAVE FLOOR WASTE AND 1% FALL WITH SAFETY OVERFLOW
- 29. ALL SUBSOIL DRAINAGE SHALL BE A MINIMUM OF Ø65mm AND SHALL BE PROVIDED WITH A FILTER SOCK. THE SUBSOIL DRAINAGE SHALL BE INSTALLED IN ACCORDANCE WITH DETAILS TO BE PROVIDED BY THE LANDSCAPE CONSULTANT.
- SUBSOIL DRAINAGE PIPES AND FITTINGS SHALL BE PERFORATED PLASTIC TO CURRENT AUSTRALIAN STANDARDS. LAY PIPES ON FLOOR OF TRENCH GRADED AT 1% MIN. AND OVERLAY WITH FILTER MATERIAL EXTENDING TO WITHIN 200mm OF SURFACE. PROVIDE FILTER FABRIC OF PERMEABLE POLYPROPYLENE BETWEEN FILTER MATERIAL AND TOPSOIL. PROVIDE ELUSHING EYE'S AT HIGH POINTS OR TO COUNCILS REQUIREMENTS.
- 31. GRATES TO BE IN ACCORDANCE WITH TABLE BELOW:

PIT GRATE INLINE TYPE

GRATE TYPE	TRAFFIC CONDITIONS					
	FOOTWAYS AND AREAS ACCESSIBLE ONLY TO PEDESTRUANS AND PEDAL CYCLISTS.					
B - LIGHT DUTY	FOOTWAYS THAT CAN BE MOUNTED BY VEHICLES.					
C - MEDIUM DUTY	MALLS AND PEDESTRIAN AREAS OPEN TO SLOW MOVING COMMERCIAL VEHICLES.					
D - HEAVY DUTY	CARRIGEWAYS OF ROADS AND AREAS OPEN TO COMMERCIAL VEHICHLES.					
TABLE AS PER AS3996 - 2006. ENGINEER TO BE NOTIFIED IF LOAD CONDITIONS LISTED ABOVE ARE EXCEEDED.						

32. COVER TO PIPE TO BE AS PER TABLE BELOW

COVER TABLE

LOCATION	PIPE TYPE	COVER			
LANDSCAPE	PVC	300			
LANDSCAPE (SINGLE DWELLING)	PVC	100			
UNDER TRAFFICABLE AREA	PVC	100 BELOW UNDERSIDE OF PAVEMENT			
CONCRETE	STEEL	NIL BELOW UNDERSIDE OF PAVEMENT			
ROADS	RCP	REFER DETAILS PROVIDED			

							1.		DESIGN:	SK		
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nview 30 FRANK ST. MT DRUITT, NSW 2770 ABORIGINAL HOUSING OFFICE SULTING

SENIORS LIVING DEVELOPMENT

RECOMMENDED SAFETY SIGNS

WARNING PUMP OUT SYSTEM FAILURE IN BASEMENT WITH LIGHT IS FLASHING AND SIREN SOUNDING

BASEMENT PUMP OUT FAILURE WARNING SIGN

SIGN SHALL BE PLACED IN A CLEAR AND VISABLE LOCATION WHERE VEHICLES ENTER THE BASEMENT

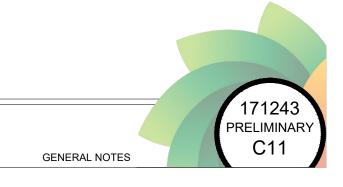
DANGER CONFINED SPACE

NO ENTRY WITHOUT CONFINED SPACE TRAINING

CONFINED SPACE DANGER SIGN

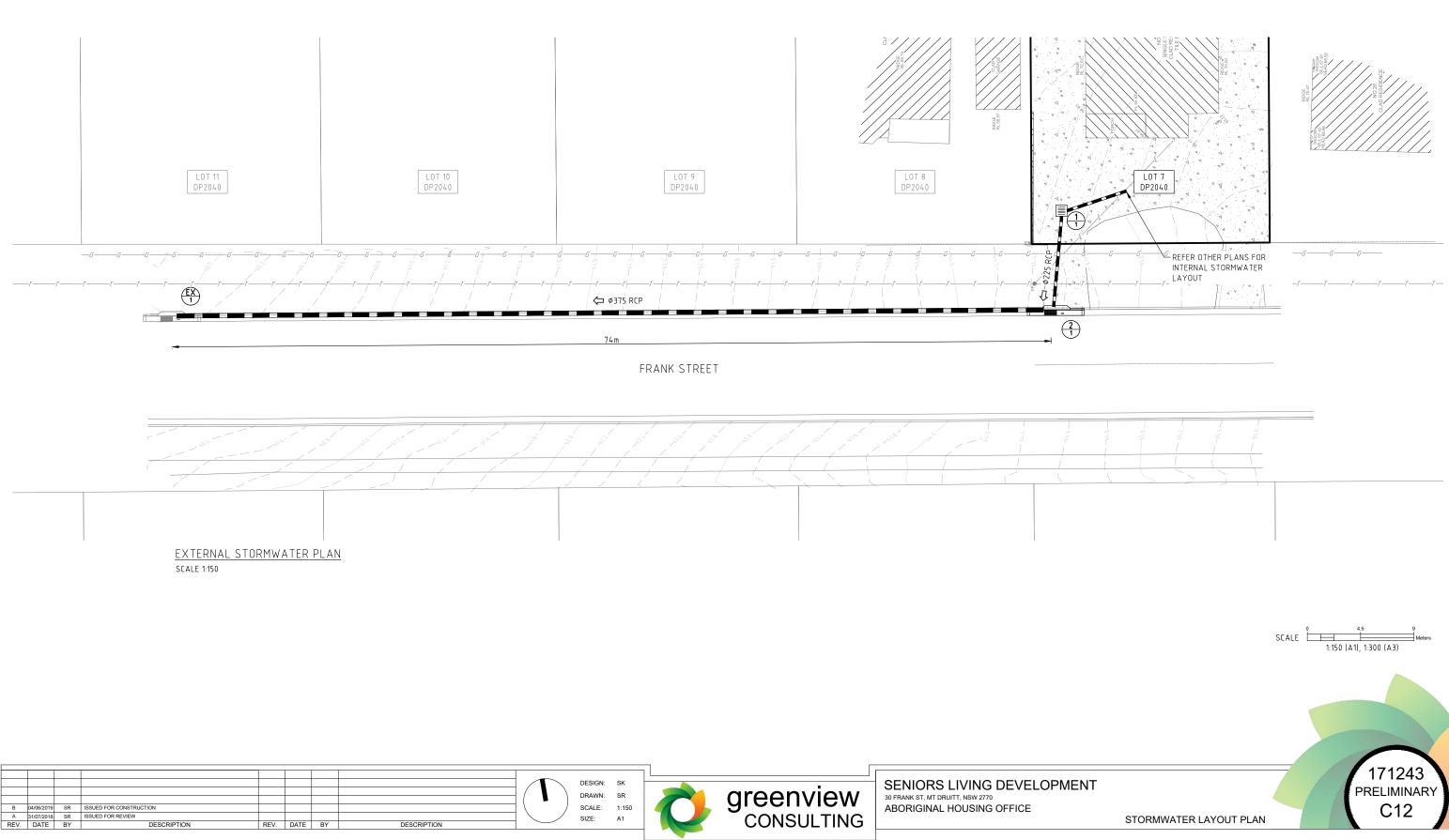
- A CONFINED SPACE DANGER SIGN SHALL BE POSITIONED IN A 1. LOCATION AT ALL ACCESS POINTS, SUCH THAT IT IS CLEARLY VISIBLE TO PERSONS PROPOSING TO ENTER THE BELOW GROUND TANKS CONFINED SPACE. MINIMUM DIMENSIONS OF THE SIGN:
- 300mm x 450mm (LARGE ENTRIES, SUCH AS DOORS) - 250mm x 180mm (SMALL ENTRIES SUCH AS GRATES & MANHOLES)
- THE SIGN SHALL BE MANUFACTURED FROM COLOUR BONDED ALUMINUM OR POLYPROPYLENE
- 3. SIGN SHALL BE AFFIXED USING SCREWS AT EACH CORNER OF THE SIGN





LEGEND:

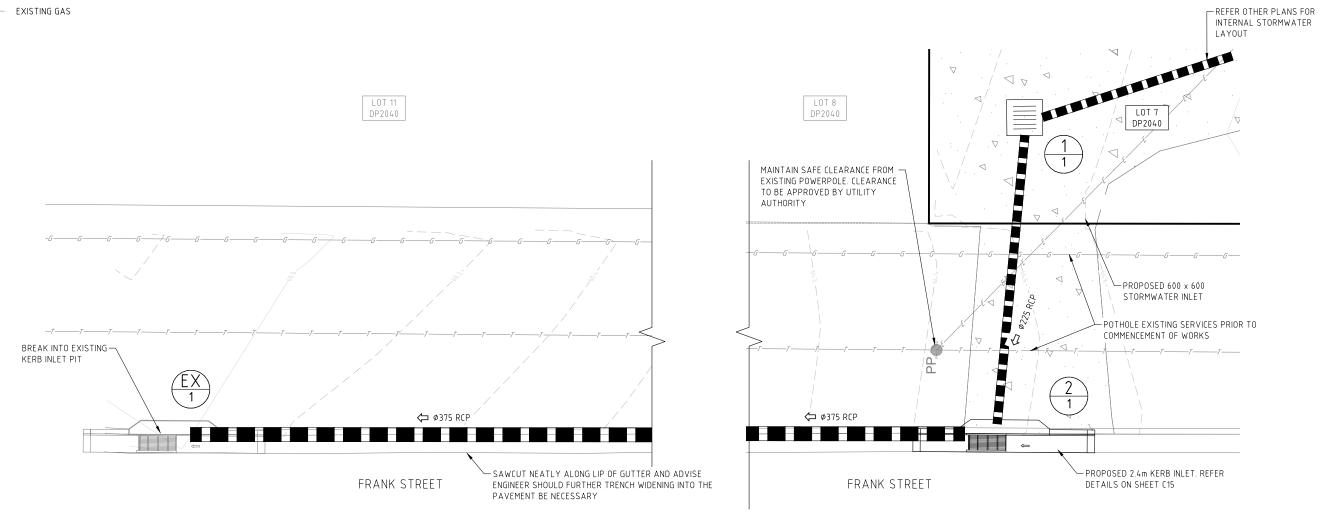
- PROPOSED STORMWATER PIPE
- -60.2- EXISTING 5m D.E.M. CONTOURS (C.I. = 0.2m)
- EXISTING ELECTRICITY
- ------------------------EXISTING GAS



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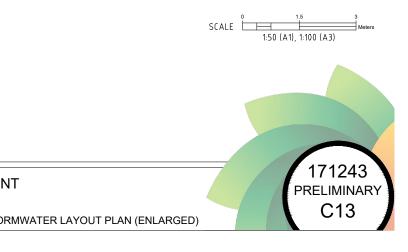
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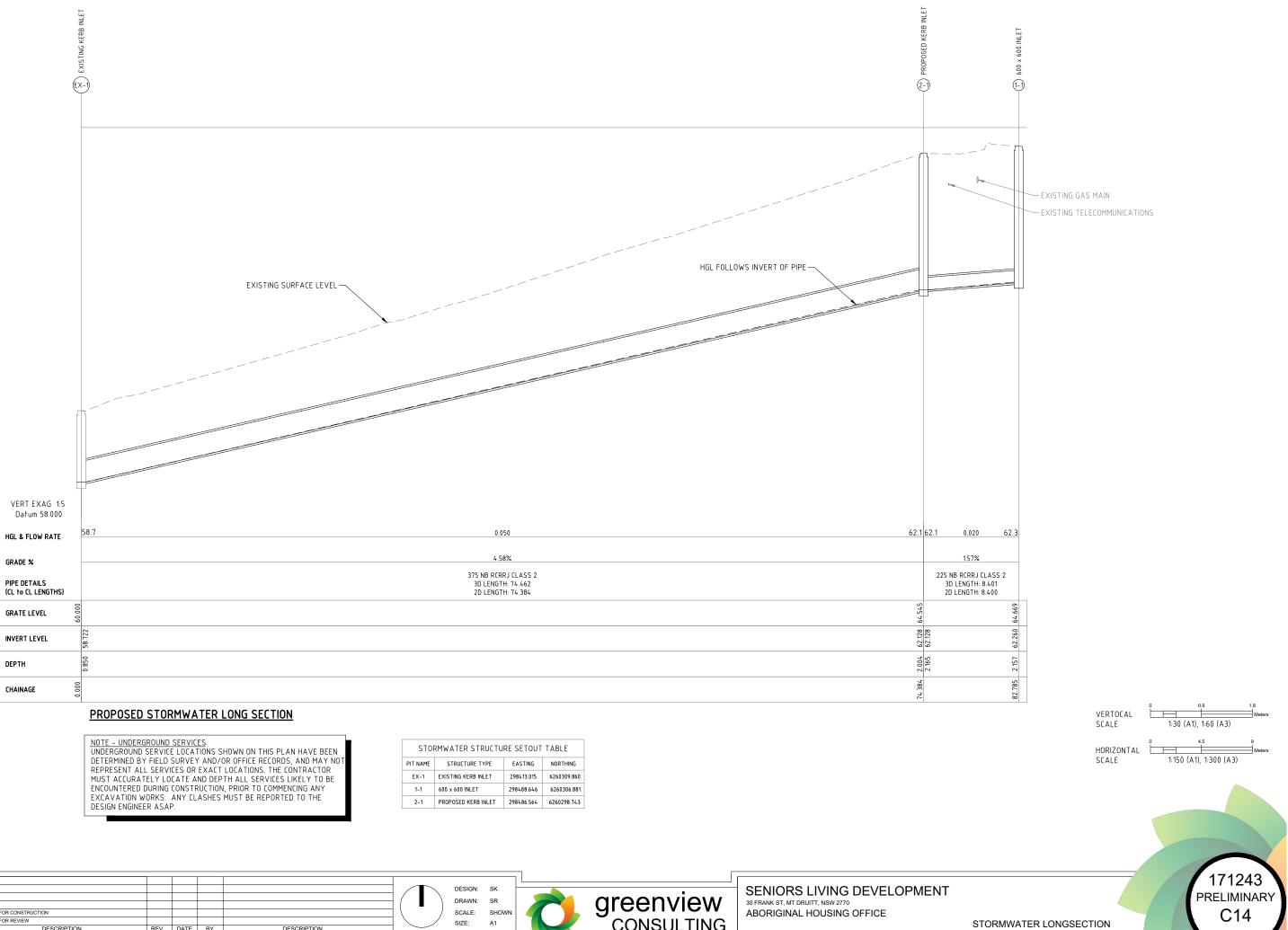
- PROPOSED STORMWATER PIPE
- -60.2- EXISTING 5m D.E.M. CONTOURS (C.I. = 0.2m)
- ----- EXISTING ELECTRICITY
- ----------------------------------EXISTING GAS



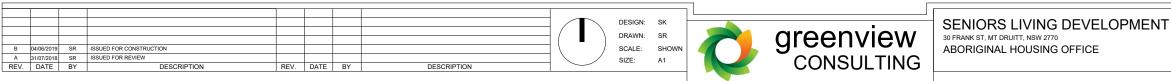
STORKMWATER PLAN - ENLARGED VIEWS SCALE 1:50

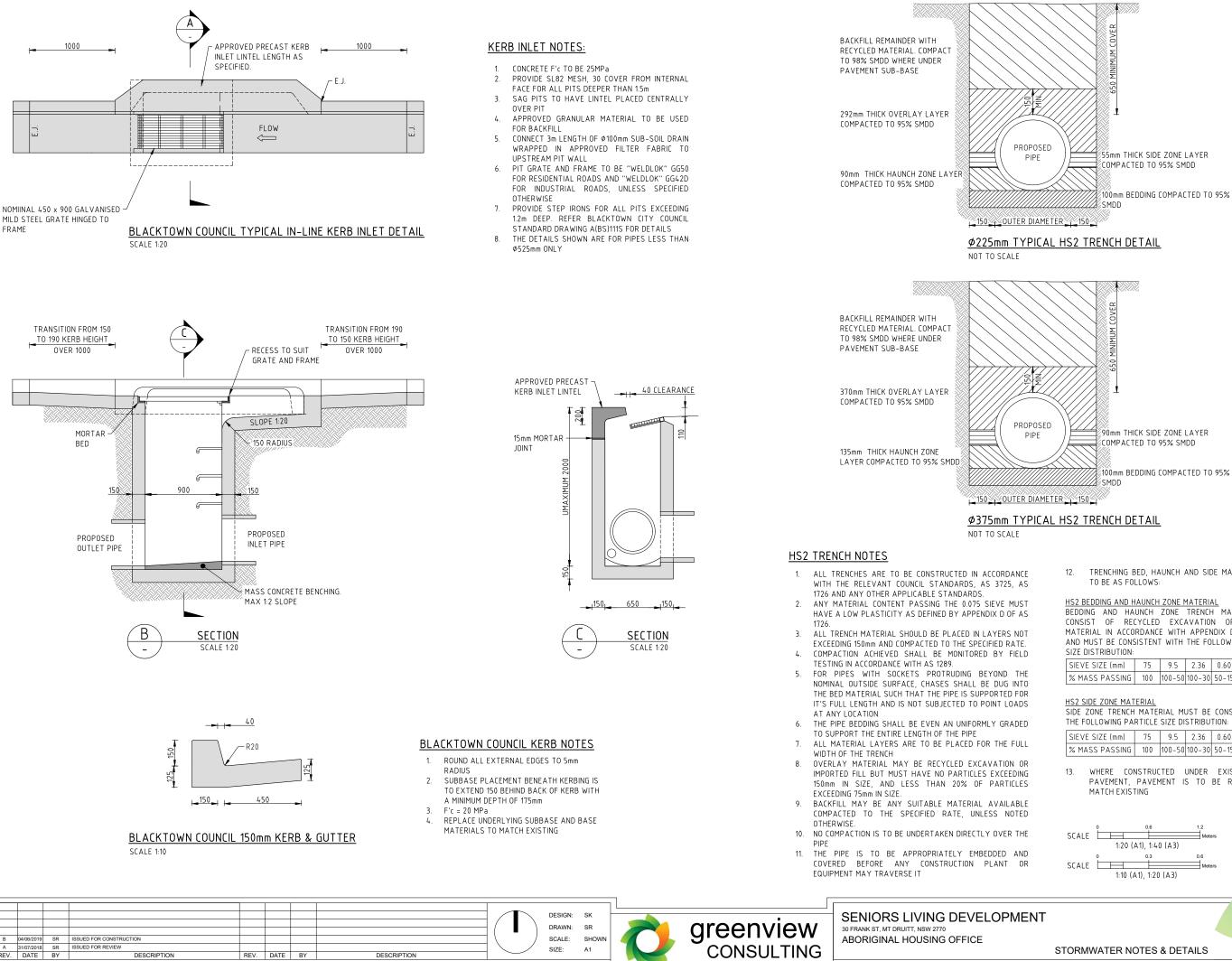
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STORMWATER STRUCTURE SETOUT TABLE									
PIT NAME	STRUCTURE TYPE	EASTING	NORTHING						
EX-1	EXISTING KERB INLET	298413.015	6260309.860						
1-1	600 x 600 INLET	298488.646	6260306.881						
2-1	PROPOSED KERB INLET	298486.564	6260298.743						





SIZE:

DESCRIPTION

REV DATE BY

A1

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DESCRIPTION

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TRENCHING BED, HAUNCH AND SIDE MATERIALS ARE

HS2 BEDDING AND HAUNCH ZONE MATERIAL BEDDING AND HAUNCH ZONE TRENCH MATERIAL MAY CONSIST OF RECYCLED EXCAVATION OR IMPORTED MATERIAL IN ACCORDANCE WITH APPENDIX D OF AS1726; AND MUST BE CONSISTENT WITH THE FOLLOWING PARTICLE

SIEVE SIZE (mm)	75	9.5	2.36	0.60	0.075
% MASS PASSING	100	100-50	100-30	50-15	25-0

SIDE ZONE TRENCH MATERIAL MUST BE CONSISTENT WITH

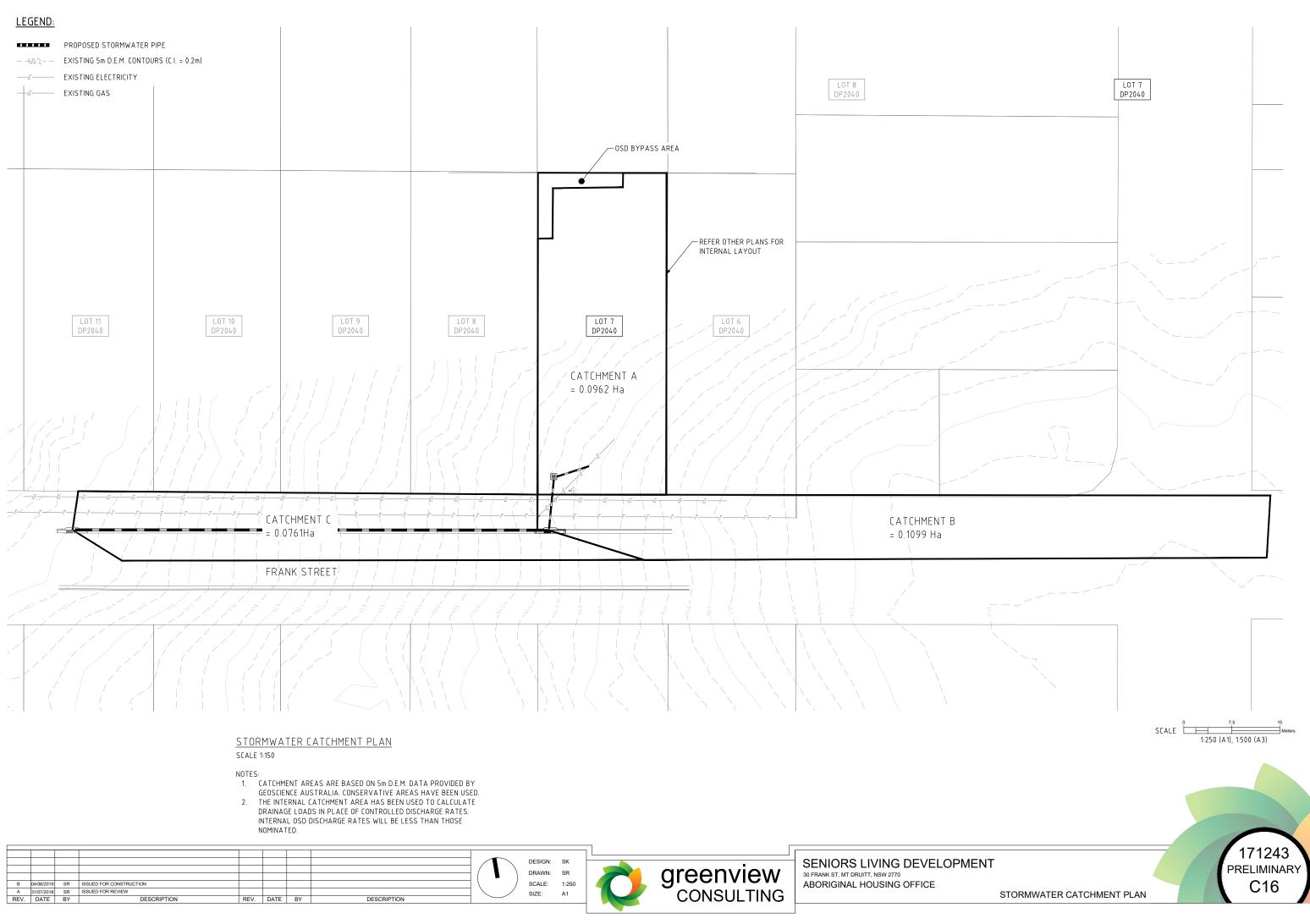
SIEVE SIZE (mm)	75	9.5	2.36	0.60	0.075
% MASS PASSING	100	100-50	100-30	50-15	25-0

WHERE CONSTRUCTED UNDER EXISTING ROAD PAVEMENT, PAVEMENT IS TO BE REPLACED TO

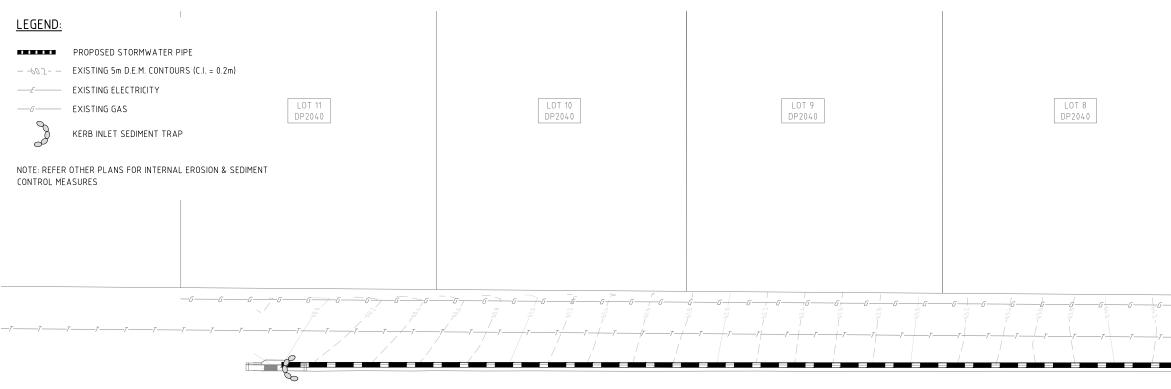
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PRELIMINARY

C15



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FRANK STREET

BYPASS FLOW TO INLET

THREE LAYERS OF SANDBAGS WITH ENDS OVERLAPPED.

ON GRADE KERB INLET SEDIMENT TRAP

EROSION AND SEDIMENT CONTROL

1. GENERAL

- (a) TEMPORARY DRAINAGE CONTROL. FLOW SHOULD BE DIVERTED AROUND THE WORK SITE WHERE. POSSIBLE.
- (b) ALL DRAINAGE, EROSION AND SEDIMENT CONTROLS TO BE INSTALLED AND BE OPERATIONAL BEFORE COMMENCING UP-SLOPE EARTHWORKS.
 (c) ALL CONTROL MEASURES TO BE INSPECTED AT LEAST WEEKLY AND AFTER SIGNIFICANT RUNOFF PRODUCING STORMS.
- (d) CONTROL MEASURES MAY BE REMOVED WHEN ON-SITE EROSION IS CONTROLLED AND 70% PERMANENT SOIL COVERAGE IS OBTAINED OVER ALL UPSTREAM DISTURBED LAND.
 (e) IN AREAS WHERE RUNOFF TURBIDITY IS TO BE CONTROLLED, EXPOSED SURFACES TO BE EITHER MULCHED, COVERED WITH EROSION CONTROL BLANKETS OR TURFED IF EARTHWORKS ARE
 - EXPECTED TO BE DELAYED FOR MORE THAN 14 DAYS.

2 SEDIMENT FENCE

- (a) NOT TO BE LOCATED IN AREAS OF CONCENTRATED FLOW. (b) NORMALLY LOCATED ALONG THE CONTOUR WITH A MAXIMUM CATCHMENT AREA 0.6 HA PER 100M LENGTH OF FENCE.
- (c) WOVEN FABRICS ARE PREFERRED, NON-WOVEN FABRICS MAY BE USED ON SMALL WORK SITES, I.E. OPERATIONAL PERIOD LESS THAN 6 MONTHS OR ON SITES WHERE SIGNIFICANT SEDIMENT RUNOFF IS NOT EXPECTED.
- (d) WHERE FENCES NEED TO BE LOCATED ACROSS THE CONTOUR THE LAYOUT SHALL CONFORM
- TO 'TYPICAL LAYOUT ACROSS GRADE'.
 (e) FENCES ARE REQUIRED 2M MIN FROM TOE OF CUT OR FILL BATTERS, WHERE NOT PRACTICAL ONE FENCE CAN BE AT THE TOE WITH A SECOND FENCE 1M MIN AWAY, FENCE SHOULD NOT BE LOCATED PARALLEL WITH TOE IF CONCENTRATION OF FLOW WILL OCCUR BEHIND THE FENCE.
- 3. TEMP CONSTRUCTION ENTRY/EXIT SEDIMENT TRAP.
- (a) ADJACENT STORMWATER RUNOFF TO BE DIVERTED AWAY FROM ENTRY/EXIT. (b) WHEEL - WASH OR SPRAY UNIT MAY BE REQUIRED DURING WET WEATHER.
- 4. SAFETY ISSUES MUST BE CONSIDERED AT ALL TIMES, INCORPORATE TRAFFIC CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT.
- 5. ALL DIMENSIONS IN MILLIMETRES UNLESS INDICATED OTHERWISE. 6. FIELD INLET
- b. FIELD INCE I

 (a) A STABILISED BYPASS OVERLAND FLOW PATH SHOULD EXIST ADJACENT TO THE FIELD INLET.
 (b) WATER LEVEL CONTROL PERIMETER BANKS MAY BE REQUIRED.
- (c) BLOCKS TO BE RESTRAINED BY A HORIZONTAL TIMBER RAIL AT BLOCK JOINT HEIGHT FIXED TO TIMBER STAKES AT CORNERS.
- 1. CHECK DAMS
 (a) CATCHMENT AREA LIMITED TO 4 HA.
 (b) USE IN MINOR OPEN DRAINS ONLY, (VELOCITY CONTROL), SEDIMENT COLLECTION IS A SECONDARY PURPOSE.
- 8. STRAW BALES ARE ONLY FOR EMERGENCY USE ONLY. 9. SAFETY ISSUES MUST BE CONSIDERED AT ALL TIMES, INCORPORATE TRAFFIC CONTROL DEVICES TO
- THE SATISFACTION OF THE SUPERINTENDENT.
- 10. ALL DIMENSIONS IN MILLIMETRES.

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SANDBAGS OVERLAP ONTO KERB

RUNOFF

600 NOM GAP BETWEEN BAGS ACT AS SPILLWAY

1500 MIN

SION AND SEDIMENT CONTROL PLAN



PRELIMINARY C17

LOT 7

DP2040

LOT 6 DP2040