

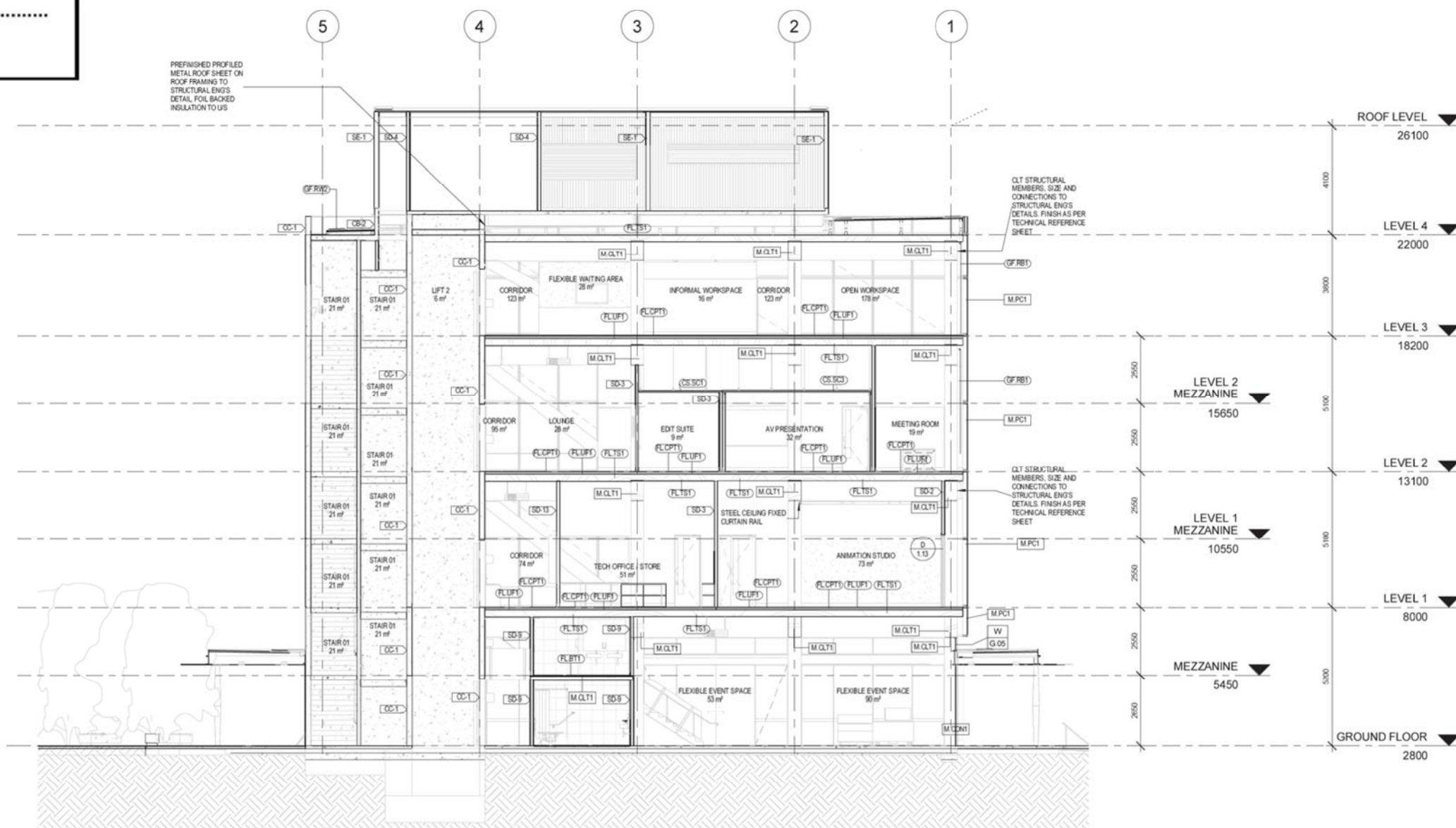
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Approved Application No. SSD-9510

Granted on the 21 May 2020


Signed JH

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MATERIALS SCHEDULE

ID Code	Image	Supplier	Item/ Description	Model/ Finish	Test Results	Lead Time	Specification Notes
M.ACP1		Woven Image	Acoustic Ceiling Panels	WOVEN IMAGE 'AIRE' Colour: 542 (Black) 120mmW x 2800mmL x 50mmTH - Direct Fixed	ISO 9705 Classification: Group 1	TBC by Supplier	-
M.CLT1		-	Cross Laminated Timber	Clear Finish	TBC by Supplier	TBC by Supplier	all exposed timber is to have a UV stabilised satin clear low VOC non-yellowing finish suitable for use on Glue Laminated and Cross Laminated timber. All Ground floor CLT is to be termite treated without discolouration.
M.CON1		-	Coloured Concrete	Polished surface finish, Midden aggregate	-	-	-
M.CON2		-	Standard Concrete	Broom Finished concrete	Ensure Slip Ratings are meet for exposed concrete	-	-
M.CPT1		Gibbon Group/Tretford	Carpet Tile	Silver Birch	TBC by Supplier	TBC by Supplier	-
M.CPT2		Gibbon Group/Tretford	Carpet Tile	Anthracite 534	TBC by Supplier	TBC by Supplier	-
M.CPT3		Forbo Stephen Cook 0419183693	Carpet Tile	Coral Brush Entrance Matting 5721 'Hurricane Grey' 500 x 500 x 10mm	TBC by Supplier	TBC by Supplier	Carpet tile entrance matting insert, finished floor level to be flush with surrounding floor finishes. To be installed according to manufacturers specifications. Refer to drawings for extent and details. Adhesive and installation according to manufacturers specifications.
M.EPXY1		Hychem Construction Resins	Hychem 4mm Self Leveling Heavy Duty Film Studio Floor System	Hychem GP - Hychem SL20 - Hychem PU100 Matte Colour: White	TBC by Supplier	TBC by Supplier	Hychem high strength self-levelling system with excellent light reflection and to cope with heavy equipment trolley traffic and at the same time provide a super smooth, bump free surface for mobile cameras to roll across. Slip rating to meet relevant Australian Standards for room use
M.EPXY2		Sika	Epoxy Flooring System Applied to concrete slab	Sikafloor 264	TBC by Supplier	TBC by Supplier	Solvent free, epoxy resin based, high build roll on coating system
M.EPXY3		Sika	Epoxy Flooring System Applied to concrete slab	Sikafloor 264	TBC by Supplier	TBC by Supplier	Solvent free, epoxy resin based, high build roll on coating system
M.FAB1		Woven Image	Uphostery	Phantom	TBC by Supplier	TBC by Supplier	-
M.GL1		-	Clear Glass	Single Glazed 12.38mm laminated Glass	TBC by Supplier	TBC by Supplier	-



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MATERIALS SCHEDULE

ID Code	Image	Supplier	Item/ Description	Model/ Finish	Test Results	Lead Time	Specification Notes
M.LAM1		Lamitak	Laminate	Black Oregon Teak with Matching Edge Strip	TBC by Supplier	TBC by Supplier	-
M.LAM2		Lamicolour	Laminate	HPL Classic Perf L5057PL Matching ABS Edging	TBC by Supplier	TBC by Supplier	-
M.LAM3		Lamicolour Matthew Falzon 0488 275 882	Compact Laminate	COMPACT LAMINATE Natural Chalet Oak C4284NH	TBC by Supplier	TBC by Supplier	Refer to drawings for details. To be applied and installed according to joiners and manufacturers specifications. Refer to details for edging requirements. All grain to run vertically.
M.LVR1		TBC	Aluminium Acoustic Louvre	Black Powdercoat Colour: M.PC1	TBC by Supplier	TBC by Supplier	-
M.LWC1		CSR	Lightweight External Cladding	Barestone - External Prefinished	TBC by Supplier	TBC by Supplier	-
M.LWC2		Lysaght	Vertical Corrugated Sheet	Custom Orb Sheeting Colour: Monument	TBC by Supplier	TBC by Supplier	-
M.MRS1		Lysaght	Metal Roof Sheeting	Klip-Lok Sheeting Colour: Shale Grey	TBC by Supplier	TBC by Supplier	-
M.PB1		Gyprock	Perforated Plasterboard	13mm Perforated Plasterboard GYPTONE 12mm Square	TBC by Supplier	TBC by Supplier	-
M.PB2		Gyprock	Plasterboard	13mm Standard Plasterboard	TBC by Supplier	TBC by Supplier	-
M.PB3		Gyprock	Plasterboard	13mm Moisture Resistant Plasterboard	TBC by Supplier	TBC by Supplier	-
M.PB4		Gyprock	Plasterboard	13mm Fire Resistant Plasterboard	TBC by Supplier	TBC by Supplier	-
M.PC1		Dulux	Powdercoat	ELECTRO Black Ace 906-9116F	TBC by Supplier	TBC by Supplier	-
M.PC2		Dulux	Powdercoat	ELECTRO Nom White	TBC by Supplier	TBC by Supplier	-
M.PIN1		Autex Ken Coleman 0401 755 097	Acoustic Fabric	COMPOSITION FABRIC Noir 1220 wide x 25m long 3-4mm thick Provide fixings to accomodate	TBC by Supplier	TBC by Supplier	Mounted onto 12mm plywood with DTA:ALA3.12MS (finish as M.AL1) trim to exposed edges. To be installed to manufacturer's specifications. Refer to Architectural drawings for extent & details. Acoustic Fabric comes in rolls 1220 wide by 25 meters long. All Acoustic Fabric installations are to be done so roll runs along the length of the wall, minimising joins. If there is an instance where joins are required, discuss alternative layout options with EJE Architecture on site.
M.PIN2		Autex Ken Coleman 0401 755 097	Acoustic Fabric	COMPOSITION FABRIC Civic 1220 wide x 25m long 3-4mm thick Provide fixings to accomodate	TBC by Supplier	TBC by Supplier	Mounted onto 12mm plywood with DTA:ALA3.12MS (finish as M.AL1) trim to exposed edges. To be installed to manufacturer's specifications. Refer to Architectural drawings for extent & details. Acoustic Fabric comes in rolls 1220 wide by 25 meters long. All Acoustic Fabric installations are to be done so roll runs along the length of the wall, minimising joins. If there is an instance where joins are required, discuss alternative layout options with EJE Architecture on site.



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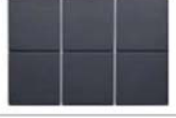


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MATERIALS SCHEDULE

ID Code	Image	Supplier	Item/ Description	Model/ Finish	Test Results	Lead Time	Specification Notes
M.PT1a		Dulux Romina Basto 0434864114	Paint Finish, Acrylic	FLAT SHEEN SW1E4 Mt Aspiring	TBC by Supplier	TBC by Supplier	To be primed, mixed and applied according to manufacturers specifications. Anti-microbial additive to wet-areas, as required
M.PT1c		Dulux Romina Basto 0434864114	Paint Finish, Acrylic	SEMI GLOSS SW1E4 Mt Aspiring	TBC by Supplier	TBC by Supplier	To be primed, mixed and applied according to manufacturers specifications. Anti-microbial additive to wet-areas, as required
M.PT1d		Dulux Romina Basto 0434864114	Paint Finish, Acrylic	GLOSS SW1E4 Mt Aspiring	TBC by Supplier	TBC by Supplier	To be primed, mixed and applied according to manufacturers specifications. Anti-microbial additive to wet-areas, as required
M.PT2b		Dulux Romina Basto 0434864114	Paint Finish, Acrylic	LOW SHEEN SN4H9 Black Caviar	TBC by Supplier	TBC by Supplier	To be primed, mixed and applied according to manufacturers specifications. Anti-microbial additive to wet-areas, as required
M.PT2c		Dulux Romina Basto 0434864114	Paint Finish, Acrylic	SEMI GLOSS SN4H9 Black Caviar	TBC by Supplier	TBC by Supplier	To be primed, mixed and applied according to manufacturers specifications. Anti-microbial additive to wet-areas, as required
M.PT2d		Dulux Romina Basto 0434864114	Paint Finish, Acrylic	GLOSS SN4H9 Black Caviar	TBC by Supplier	TBC by Supplier	To be primed, mixed and applied according to manufacturers specifications. Anti-microbial additive to wet-areas, as required
M.SS1		-	Stainless Steel	316 Grade Stainless Steel	TBC by Supplier	TBC by Supplier	-
M.ST1		Maximum Australia	Solid Surface Benchtop	Asten Moon Pencil Edges	TBC by Supplier	TBC by Supplier	-
M.TBR1		-	Solid Timber Tread 32mm thick	Victorian Ash - Clear finish	TBC by Supplier	TBC by Supplier	Recessed safety insert tread to be Latham ACS-50
M.TBR2		-	Solid Timber floor boards 19mm thick	Victorian Ash - Clear finish	TBC by Supplier	TBC by Supplier	Recessed safety insert tread to be Latham ACS-50
M.TI1		Latham	Stair nosing insert material	Colour: TBC	TBC by Supplier	TBC by Supplier	-
M.TL1		Glennon Tiles	Unglazed Matt Tile	Bauhaus 910	TBC by Supplier	TBC by Supplier	SLIP RESISTANCE: P4, R11
M.TL2		Glennon Tiles	Unglazed Matt Tile	Bauhaus 903	TBC by Supplier	TBC by Supplier	SLIP RESISTANCE: P4, R11
M.TL3		Glennon Tiles	Unglazed Matt Tile	Bauhaus 903	TBC by Supplier	TBC by Supplier	SLIP RESISTANCE: P4, R11
M.VNL1		Forbo	Vinyl	Marmoleum marbled 3146 Serene Grey	TBC by Supplier	TBC by Supplier	Esure Anti-Static Vinyl Finish to Network Rooms Ensure Non-Slip Finish to Cleaners Room
M.VS1		-	Vision Strip	Standard UoN Vision Strip Digital print onto clear vinyl, overlaminated with '3M' "Dusted" vinyl	TBC by Supplier	TBC by Supplier	Fabric to comply with UoN guidlines
M.WBD1		-	Whiteboard Surface Treatment	HOMAPAL White Magnetic Gloss 8206	TBC by Supplier	TBC by Supplier	-



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HCCD STAGE 1A

SIGNAGE SCHEDULE

ID Code	Image	Supplier	Item/ Description	Model/ Finish	Test Results	Lead Time	Specification Notes
SG.BS1		TBC	Large UoN Logo Sign	Custom metal cutout sign 5200 x 4100 x 5mm Finish: M.PC1 LED Backlight to edge fixed off wall 50mm with metal standardoffs Finish: M.PC1	-	TBC by manufacturer	Shop drawings to be provided to UoN and architect for approval prior to ordering and construction
SG.BS2		TBC	Medium UoN Logo Sign	Custom metal cutout sign 5100 x 1400 x 5mm Finish: M.PC1 LED Backlight to edge fixed off wall 50mm with metal standardoffs Finish: M.PC1	-	TBC by manufacturer	Shop drawings to be provided to UoN and architect for approval prior to ordering and construction
SG.BS3		TBC	Building Entry Sign	600 x 3000 x 100mm	-	TBC by manufacturer	Fabrication of sign in accordance with UoN sign manual. Cover strip to hide join of folded cladding panels is not allowed. the joining of panels is to be precise
SG.BS4		TBC	Large Door Identification Sign	600 x 900mm	-	TBC by manufacturer	Fabrication of sign in accordance with UoN sign manual.
SG.CD1		TBC	Multiple Line Directional Sign	80mm H (per slat) x 900mm	-	TBC by manufacturer	Fabrication of sign in accordance with UoN sign manual.
SG.DS1		TBC	Square Direction Sign - Showers & AWC	300 x 300mm Perpendicular Wall Mounted	-	TBC by manufacturer	Fabrication of sign in accordance with UoN sign manual.
SG.DS2		TBC	Square Direction Sign - Male & Female WC	300 x 300mm Perpendicular Wall Mounted	-	TBC by manufacturer	Fabrication of sign in accordance with UoN sign manual.
SG.DS3		TBC	Square Direction Sign - Male WC	300 x 300mm Perpendicular Wall Mounted	-	TBC by manufacturer	Fabrication of sign in accordance with UoN sign manual.
SG.DS4		TBC	Square Direction Sign - Female & AWC	300 x 300mm Perpendicular Wall Mounted	-	TBC by manufacturer	Fabrication of sign in accordance with UoN sign manual.
SG.FD1		Seton: 1800 531 492	Fire Safety Door Sign	Model: S8651 Material: Aluminium Colour: Anodised Grey Dimensions: Sign 180 mm x 350 mm Features: Raised Icon Image	-	TBC by supplier	Signs to be installed flush to face of door leaf on corresponding door. Signs to be installed within range of 1200mm x 1500mm from ground Acrylic Braille & tactile signage to incorporate the corresponding international symbol with braille and text Braille signage to meet with Australian compliance standards to BCA spec D3.6
SG.FD2		Seton: 1800 531 492	Fire Exit Rules Sign	Model: A15603 Material: Aluminium Colour: Anodised Grey Dimensions: Sign 180 mm x 350 mm Features: Raised Icon Image	-	TBC by supplier	Signs to be installed flush to face of door leaf on corresponding door. Signs to be installed within range of 1200mm x 1500mm from ground Acrylic Braille & tactile signage to incorporate the corresponding international symbol with braille and text Braille signage to meet with Australian compliance standards to BCA spec D3.6
SG.IS1		TBC	Ceiling Mounted Information Sign	3D Letters, suspended via Cable 1047 x 230mm (text 200) Colour: Black	-	TBC by manufacturer	-
SG.LD1		TBC	Lift Directory	950 x 450mm	-	TBC by manufacturer	Fabrication of sign in accordance with UoN sign manual.
SG.RS1		TBC	Standard UoN Room Signs	600 x 35mm	-	TBC by supplier	Fabrication of sign in accordance with UoN sign manual.
SG.SS1		Seton: 1800 531 492	Unisex Braille Shower Sign	Model: A46813 Material: Aluminium Colour: Anodised Grey Dimensions: Sign 220 mm x 180 mm Features: Raised Icon Image	-	TBC by supplier	Signs to be installed flush to face of door leaf on corresponding door. Signs to be installed within range of 1200mm x 1500mm from ground Acrylic Braille & tactile signage to incorporate the corresponding international symbol with braille and text Braille signage to meet with Australian compliance standards to BCA spec D3.6
SG.SS2		Seton: 1800 531 492	Unisex Toilet LH + Shower Sign	Model: T1294 Material: Aluminium Colour: Anodised Grey Dimensions: Sign 220 mm x 280 mm Features: Raised Icon Image	-	TBC by supplier	Signs to be installed flush to face of door leaf on corresponding door. Signs to be installed within range of 1200mm x 1500mm from ground Acrylic Braille & tactile signage to incorporate the corresponding international symbol with braille and text Braille signage to meet with Australian compliance standards to BCA spec D3.6


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SIGNAGE SCHEDULE

ID Code	Image	Supplier	Item/ Description	Model/ Finish	Test Results	Lead Time	Specification Notes
SG.SS3		Seton: 1800 531 492	Baby Change Sign	Model: A46816 Material: Aluminium Colour: Anodised Grey Dimensions: Sign 220 mm x 180 mm Features: Raised Icon Image	-	TBC by supplier	Signs to be installed flush to face of door leaf on corresponding door. Signs to be installed within range of 1200mm x 1500mm from ground Acrylic Braille & tactile signage to incorporate the corresponding international symbol with braille and text Braille signage to meet with Australian compliance standards to BCA spec D3.6
SG.SS4		Seton: 1800 531 492	Cleaners Sign	Model: A46819 Material: Aluminium Colour: Anodised Grey Dimensions: Sign 220 mm x 180 mm Features: Raised Icon Image	-	TBC by supplier	Signs to be installed flush to face of door leaf on corresponding door. Signs to be installed within range of 1200mm x 1500mm from ground Acrylic Braille & tactile signage to incorporate the corresponding international symbol with braille and text Braille signage to meet with Australian compliance standards to BCA spec D3.6
SG.SS5		Seton: 1800 531 492	Unisex Access Toilet RH Sign	Model: A46794 Material: Aluminium Colour: Anodised Grey Dimensions: Sign 220 mm x 180 mm Features: Raised Icon Image	-	TBC by supplier	Signs to be installed flush to face of door leaf on corresponding door. Signs to be installed within range of 1200mm x 1500mm from ground Acrylic Braille & tactile signage to incorporate the corresponding international symbol with braille and text Braille signage to meet with Australian compliance standards to BCA spec D3.6
SG.SS6		Seton: 1800 531 492	Female Toilet Sign	Model: A46788 Material: Aluminium Colour: Anodised Grey Dimensions: Sign 220 mm x 180 mm Features: Raised Icon Image	-	TBC by supplier	Signs to be installed flush to face of door leaf on corresponding door. Signs to be installed within range of 1200mm x 1500mm from ground Acrylic Braille & tactile signage to incorporate the corresponding international symbol with braille and text Braille signage to meet with Australian compliance standards to BCA spec D3.6
SG.SS7		Seton: 1800 531 492	Male Toilet Sign	Model: A46787 Material: Aluminium Colour: Anodised Grey Dimensions: Sign 220 mm x 180 mm Features: Raised Icon Image	-	TBC by supplier	Signs to be installed flush to face of door leaf on corresponding door. Signs to be installed within range of 1200mm x 1500mm from ground Acrylic Braille & tactile signage to incorporate the corresponding international symbol with braille and text Braille signage to meet with Australian compliance standards to BCA spec D3.6
SG.VS1		TBC	Maker Space Lettering	300mm High Letters Vinyl Letter on Glass - Black Individual Letters	-	TBC by manufacturer	-



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Landscape Document

HCCD STAGE 1A

L03



LEGEND

- Site extent
- Public domain for future: outside scope

Note: Public domain is out of scope
It is concept for future development

2 28/02/20 revisions
REV DATE COMMENTS

PROJECT:
HCCD STAGE 1A

SITE:
**Honeysuckle drive
Newcastle west**

CLIENT:
University of Newcastle

DRAWN: MA DATE: 28/02/20 SCALE: 1:500
JOB NUMBER: 11749.5 TD L03 PHASE: DWG No: REV: 2



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01 LANDSCAPE LAYOUT
extent of works



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Sheet No. 28 of 40

Public domain
for future:
outside scope

Note: Public domain is
out of scope
It is concept for
future development

2 28/02/20 revisions
REV DATE COMMENTS

PROJECT:
HCCD STAGE 1A

SITE:
**Honeysuckle drive
Newcastle west**

CLIENT:
University of Newcastle

DRAWN: MA DATE: 28/02/20 SCALE: 1:300

JOB NUMBER: 11749.5 TD L04 2
PHASE: DWG No: REV:



terras
landscape architects

412 KING STREET NEWCASTLE NSW AUSTRALIA 2300
TERRAS.COM.AU PH: 49 294 926 FAX: 49 263 069



Landscape Document

HCCD STAGE 1A

L05

LEGEND

- PUNTH AREA PAVING: CONCRETE PAVING REFER ARCHITECTURE
- PAVEMENT TYPE 2 COLOURED CONCRETE MIDDEN REFER ARCHITECTURE
- PAVEMENT TYPE 3 COLOURED CONCRETE BAND REFER ARCHITECTURE
- PUBLIC DOMAIN PAVING: GRANITE
- BRUSHED CONCRETE PAVING
- MASS PLANTING REFER PLANTING PALETTE
- SEATING 1: 2200 MM LONG RECYCLED PLASTIC/WOOD ON GRC CONCRETE, PLANTER COMBINATION: NOM. SUPPLIER QUATRO DECO
- SEATING 2: 3000 MM LONG RECYCLED PLASTIC/WOOD ON GRC CONCRETE, PLANTER COMBINATION: NOM. SUPPLIER QUATRO DECO
- SEATING 3: 500 MM CUBE STONE BLOCK/CONCRETE BLOCK SEAT AS PUBLIC DOMAIN: QUATRO POD OR SIMILAR
- PUBLIC DOMAIN PAVING: CONCRETE WITH STONE BAND SAME AS OPPOSITE SIDE FOOTPATH
- HANDRAIL: STAINLESS STEEL
- TI: WARNING DISCRETE Tactile ground surface indicator, polyurethane 25mm single stem, black
- STAIR NOSING: Aluminium/PVC insert colour black
- METAL INLAY IN PAVING
- CONCRETE TIER SEATING REFER ARCHITECTURE
- BIKE RACK: COB Blue Rack - C88 4/P 316 Stainless steel - electro-polished finish
- TREES REFER PLANTING PALETTE
- SCOPE EXTENT

2 28/02/20 revisions
REV DATE COMMENTS

PROJECT:
HCCD STAGE 1A

SITE:
**Honeysuckle drive
Newcastle west**

CLIENT:
University of Newcastle

DRAWN: MA DATE: 28/02/20 SCALE: 1:200

JOB NUMBER: 11749.5 TD L05 2
PHASE: DWG No: REV:



Landscape Document

L06

HCCD STAGE 1A



LEGEND

- P1: PLINTH AREA PAVING: CONCRETE PAVING REFER ARCHITECTURE
- P2: PAYEMENT TYPE 2: COLOURED CONCRETE MIDDEN REFER ARCHITECTURE
- P3: PAYEMENT TYPE 3: COLOURED CONCRETE BAND REFER ARCHITECTURE
- P4: PUBLIC DOMAIN PAVING: GRANITE
- P5: BRUSHED CONCRETE PAVING
- MP: MASS PLANTING REFER PLANTING PALETTE
- S1: SEATING 1: 2200 MM LONG RECYCLED PLASTIC/WOOD ON GRC CONCRETE, PLANTER COMBINATION: NOM. SUPPLIER QUATRO
- S2: SEATING 2: 3200 MM LONG RECYCLED PLASTIC/WOOD ON GRC CONCRETE, PLANTER COMBINATION: NOM. SUPPLIER QUATRO DECO
- S3: SEATING 3: 500 MM CUBE STONE BLOCK/CONCRETE BLOCK SEAT AS PUBLIC DOMAIN: QUATRO POD OR SIMILAR
- PD: PUBLIC DOMAIN PAVING: CONCRETE WITH STONE BAND SAME AS OPPOSITE SIDE FOOTPATH
- HR: HANDRAIL: STAINLESS STEEL
- TI: TI-WARNING DISCRETE: Tactile ground surface indicator, polyurethane 25mm single stem, black
- N: STAIR NOSING: Aluminium/PVC insert colour black
- IN: METAL INLAY IN PAVING
- CT: CONCRETE TIER SEATING REFER ARCHITECTURE
- BR: BIKE RACK: CORA Bike Rack - C88 4x7 214 Stainless steel - electro-polished finish
- T: TREES REFER PLANTING PALETTE
- Red dashed line: SCOPE EXTENT

2 28/02/20 revisions
REV DATE COMMENTS

PROJECT:
HCCD STAGE 1A

SITE:
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CLIENT:
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DRAWN: MA DATE: 28/02/20 SCALE: 1:200
JOB NUMBER: 11749.5 TD L06 2



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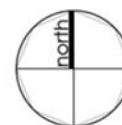
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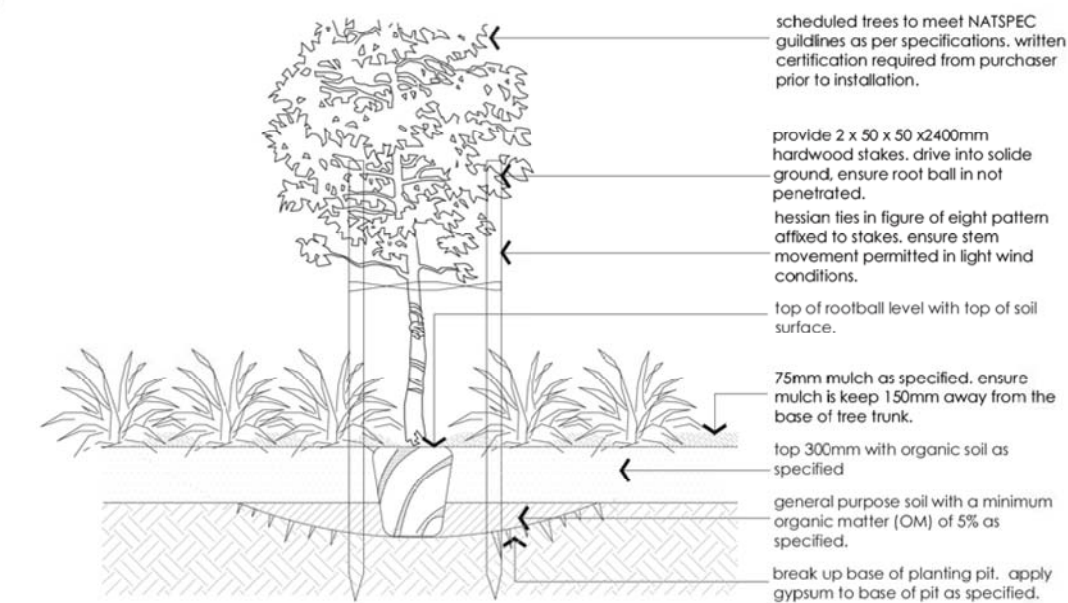
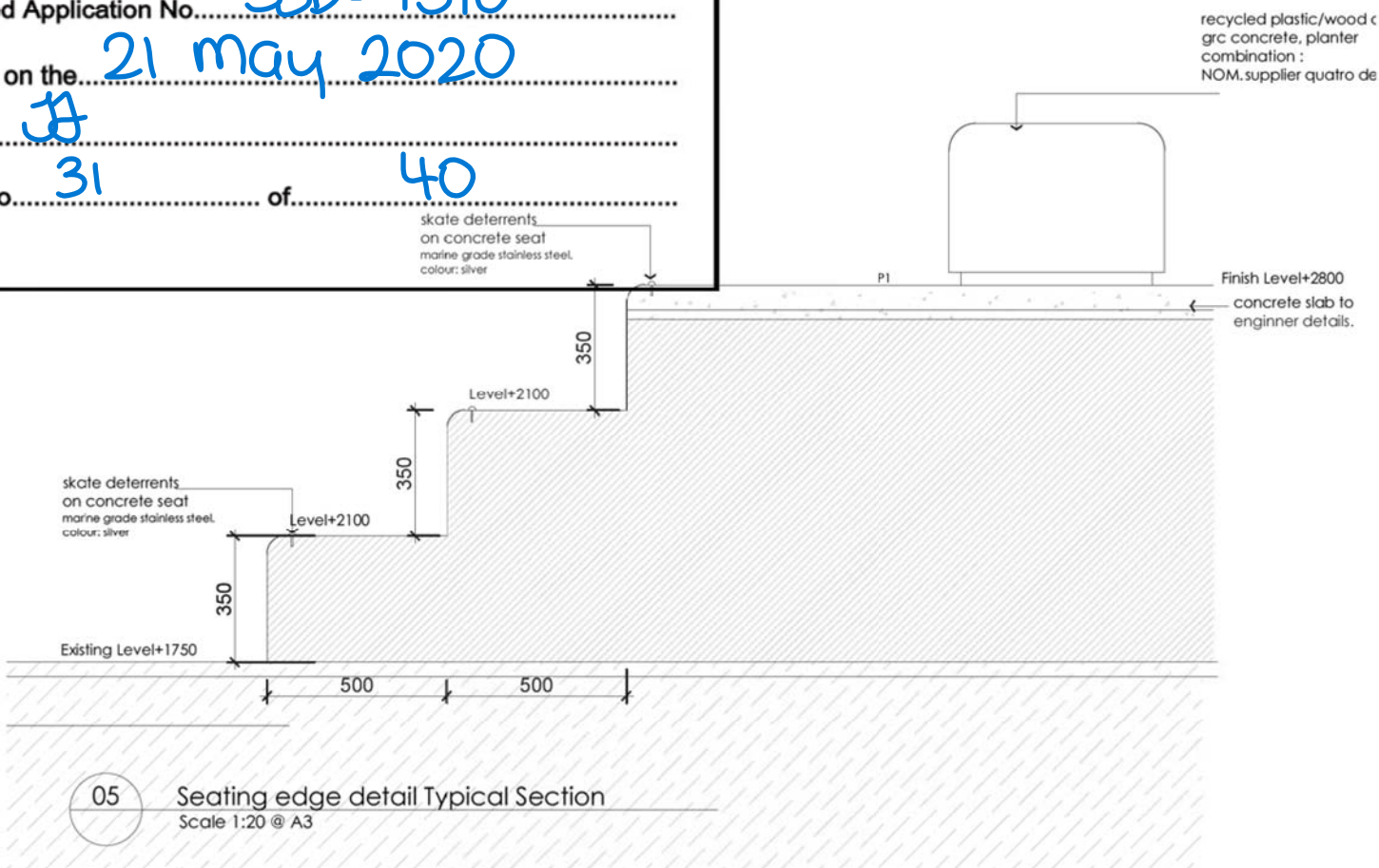
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out of scope
It is concept for
future development

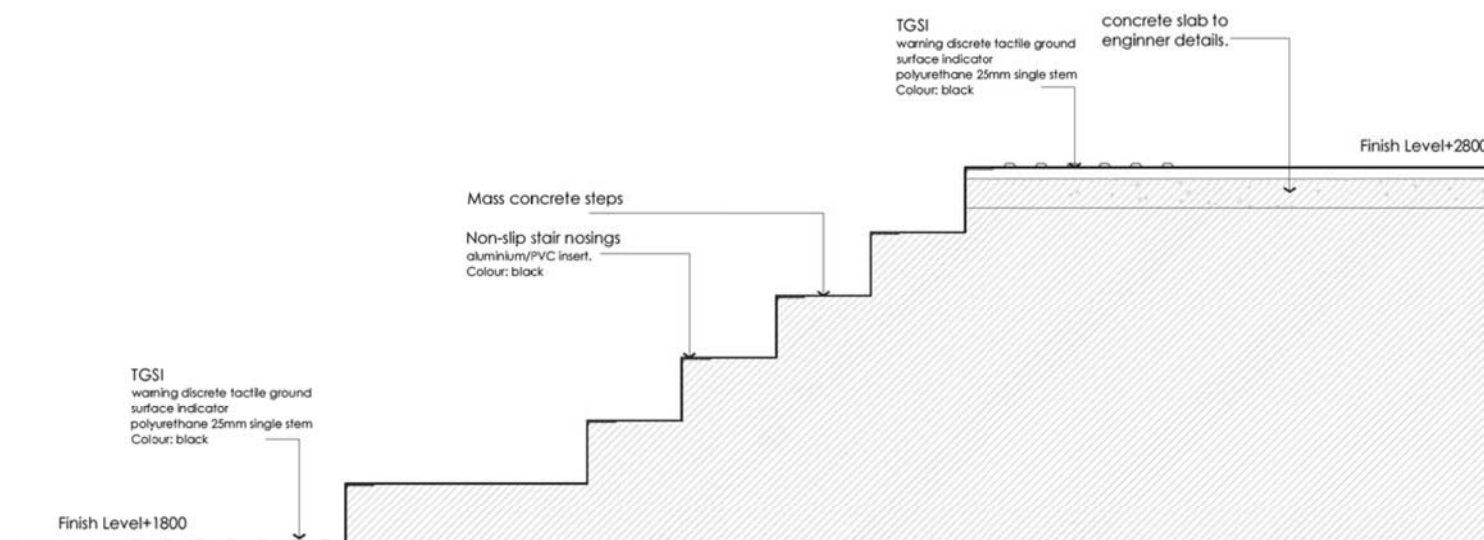


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landscape architects

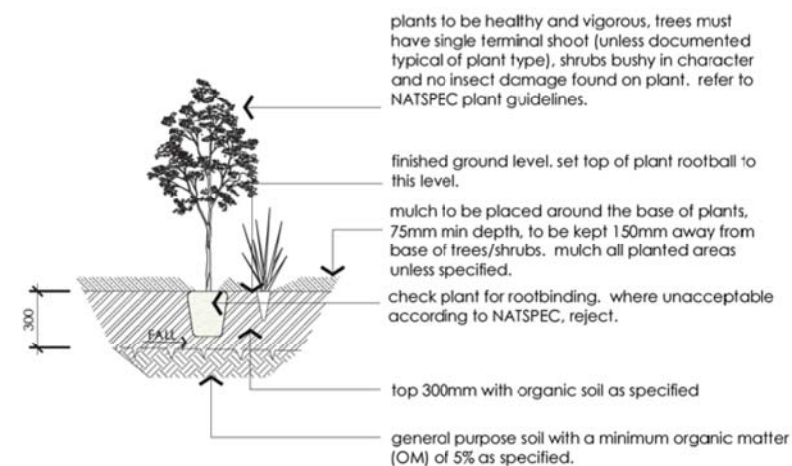
412 KING STREET NEWCASTLE NSW AUSTRALIA 2300
TERRAS.COM.AU PH: 49 294 926 FAX: 49 263 069



07 Tree in Mass Planting Typical Section
Scale 1:40 @ A3



06 Step detail: Typical Section
Scale 1:20 @ A3



08 Mass Planting Typical Section
Scale 1:40 @ A3

2 28/02/20 revisions
REV DATE COMMENTS

PROJECT:
HCCD STAGE 1A

SITE:
Honeysuckle drive
Newcastle west

CLIENT:
University of Newcastle

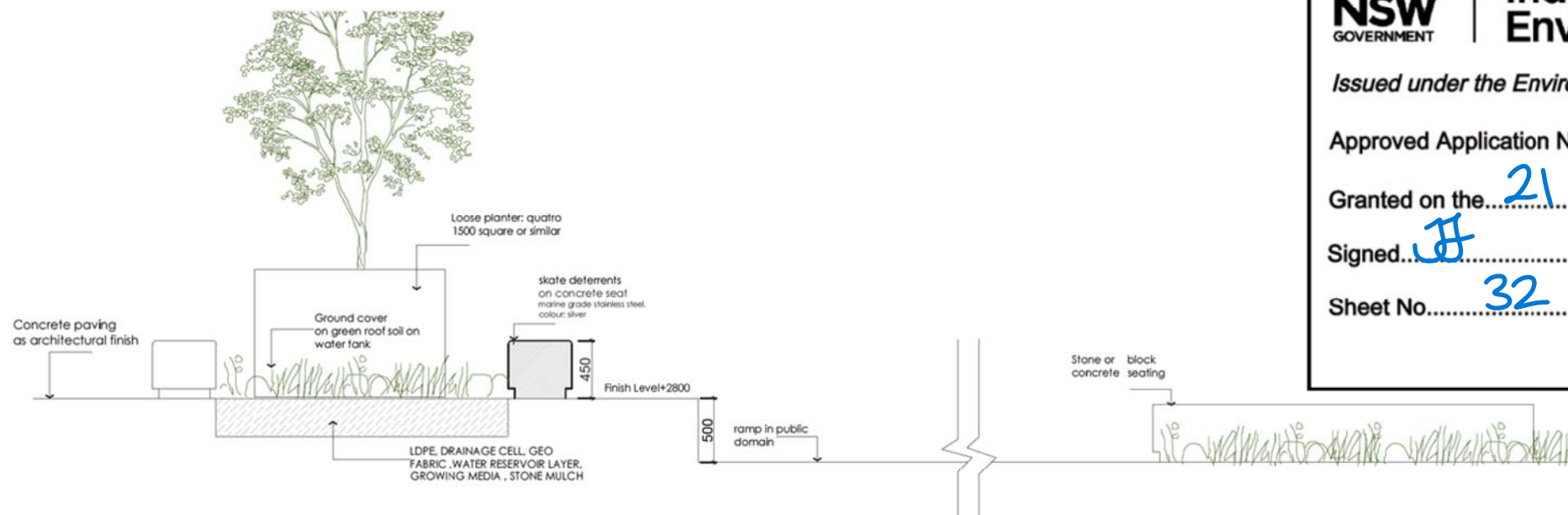
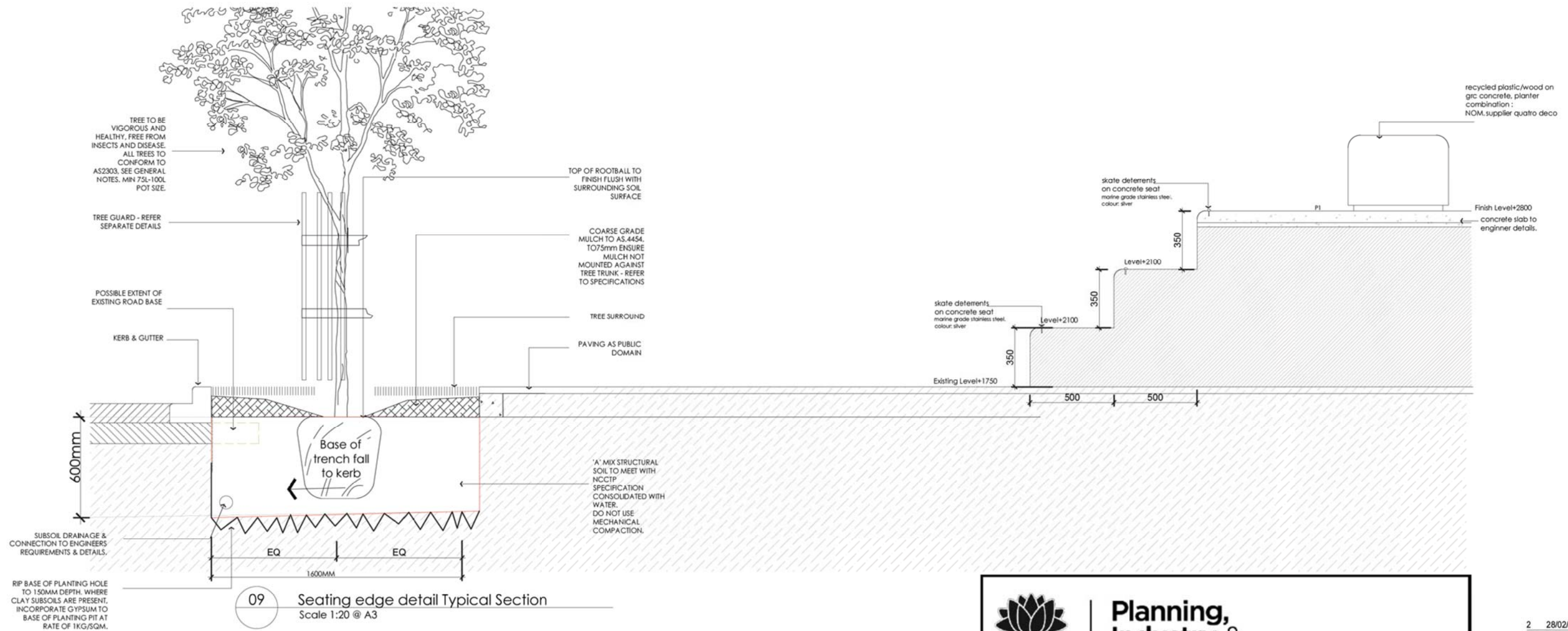
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JOB NUMBER: PHASE: DWG No: REV:
11749.5 TD L07 2



HCCD STAGE 1A

L08





Public domain
for future:
outside scope



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It is concept for
future development

2 28/02/20 revisions
REV DATE COMMENTS

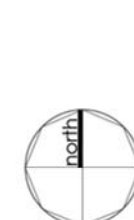
PROJECT:
HCCD STAGE 1A

SITE:
**Honeysuckle drive
Newcastle west**

CLIENT:
University of Newcastle

DRAWN: MA DATE: 28/02/20 SCALE: 1:300

JOB NUMBER: 11749.5 TD L09 2
PHASE: DWG No: REV:



planting palette



Ulmus parvifolia



Tristaniopsis laurina



Banksia integrifolia



Magnolia grandiflora
Little Gem



Correa alba



Drosanthemum Hispidum



Ipomea pes-caprae



Lomandra longifolia



Carex appressa



Banksia collina

Plant schedule

Trees

No.	Botanical Name	Height	Width	Nos.
01	Tristaniopsis laurina	08 m	07 m	03
02	Ulmus parvifolia	13 m	10 m	05
03	Banksia integrifolia	10 m	05 m	02
04	Magnolia grandiflora little gem	4 m	3 m	07

Shrub and groundcover

05	Lomandra longifolia	0.7 m	155
06	Correa alba	01 m	65
07	Ipomea pes-caprae	0.2 m	10
08	Banksia collina	01 m	55
09	Carex appressa	01 m	120
10	Drosanthemum Hispidum	0.2 m	40
11	Senecio serpens	0.3 m	70

Planter

12	Westringia Grey box	0.4	16
13	Lomandra Verday	0.5	33

REV	DATE	REVISION	COMMENTS
2	28/02/2020	REVISION	

PROJECT
HCCD STAGE 1A

SITE:
Honeysuckle Drive
Newcastle West

CLIENT:
University of Newcastle

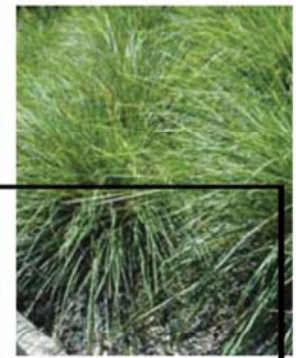
DRAWN: MA DATE: 28/02/2020 SCALE:
JOB NUMBER: 11749.5 PHASE: TD DWG No: L10 REV: 2



Senecio serpens - 'Blue Chalk Sticks'



Westringia Grey box



Lomandra Verday



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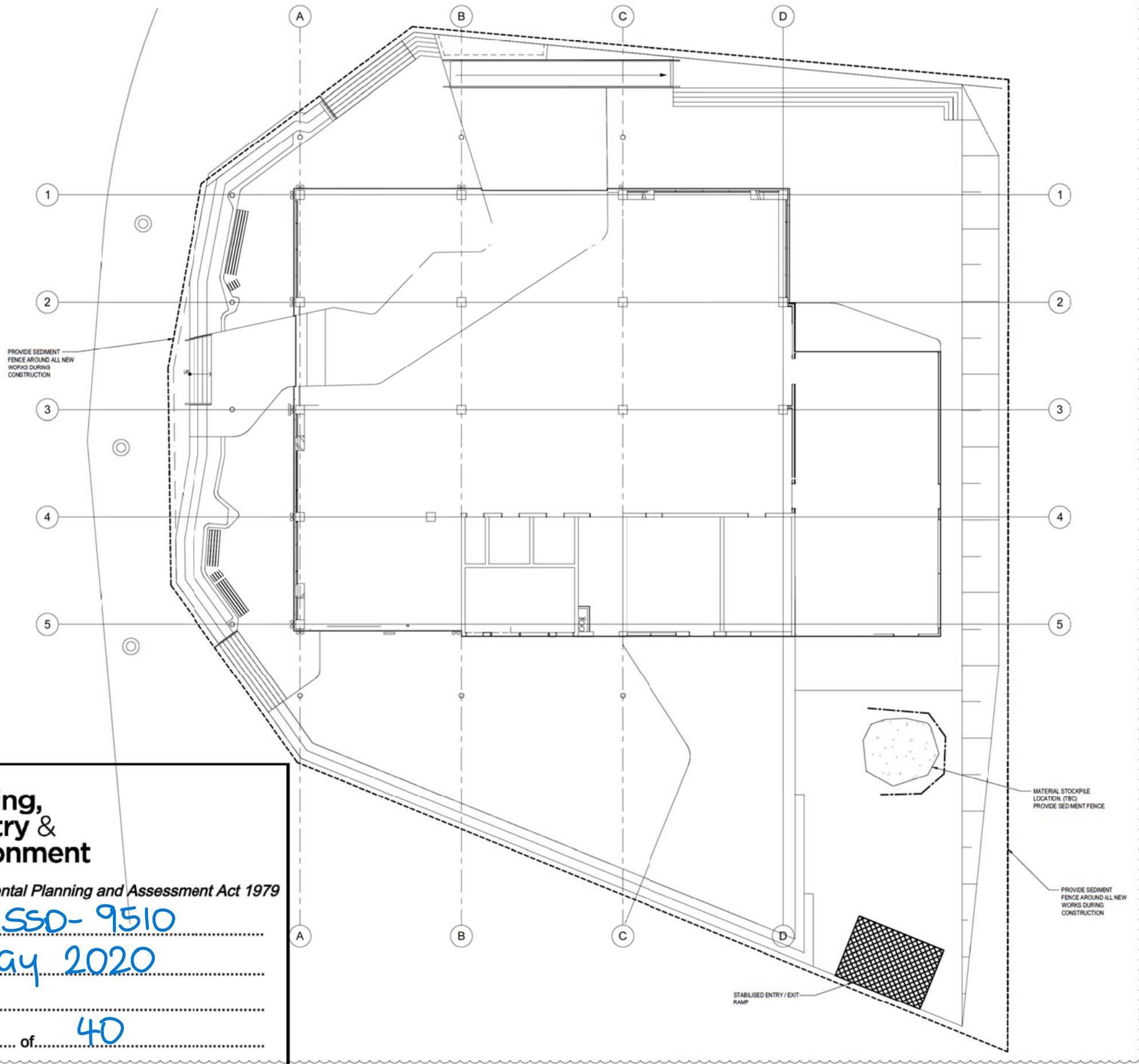
Approved Application No. SSD-9510

Granted on the 21 May 2020

Signed JH

Sheet No. 34 of 40

terras
landscape architects
412 KING STREET NEWCASTLE NSW AUSTRALIA 2300
TERRAS.COM.AU PH: 49 294 926 FAX: 49 263 069



GENERAL DRAINAGE NOTES

- WHERE PROPOSED STORMWATER PIPES INTERFERE WITH EXISTING SERVICES, ADVISE AURECON BEFORE PROCEEDING WITH THE WORKS.
- ALL CONCRETE WORKS SHALL BE IN ACCORDANCE WITH AS 3600.
- STEEL REINFORCEMENT MATERIALS TO BE IN ACCORDANCE WITH AS/NZS4671.
- ALL LEVELS ARE TO AHD AND IN METRES. ALL DIMENSIONS ARE IN MILLIMETRES, U.N.O.
- CONSTRUCTION OF ALL DRAINAGE WORKS TO BE IN ACCORDANCE WITH NEWCASTLE COUNCIL GUIDELINES OR SPECIFICATIONS.
- CONNECTIONS TO THE BUILDING DOWNPIPES ARE TO COMPRISE COLLARED CONNECTIONS PROVIDED BY THE STORMWATER CONTRACTOR. COLLARED CONNECTIONS ARE TO BE COMPLETED AFTER INSTALLATION OF THE DOWNPIPES.
- FOR SETOUT REFER TO ARCHITECTS DRAWINGS UNLESS SHOWN OTHERWISE ON THIS DRAWING.
- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH AS 3500.
- ALL PIPES TO BE LAID AT A MINIMUM GRADE OF 1% U.N.O.
- GRATES & FRAMES SHALL BE LOAD CLASS D IN ACCORDANCE WITH AS 3996.
- DOWNPIPE LOCATIONS SHOWN ARE INDICATIVE ONLY. REFER TO HYDRAULIC ENGINEERS DRAWINGS FOR FINAL NUMBER & LOCATION.
- SUBSOIL DRAINAGE TO BE PROVIDED BEHIND ALL VERTICAL STEPS IN LEVEL & AS SPECIFIED BY THE LANDSCAPE ARCHITECT.
- ALL STORMWATER PIPES TO HAVE FLEXIBLE JOINTS INTO PITS & TANKS TO ACCOMMODATE ANY GROUND MOVEMENTS RELATED TO MINE SUBSIDENCE.
- BELOW GROUND TANKS TO BE CONSTRUCTED ON BOUNDARY. CONTRACTOR TO ALLOW FOR ANY TEMPORARY SHORING REQUIRED TO MAINTAIN THE INTEGRITY OF COUNCILS FOOTPATH AREA.
- ALL STORMWATER INLET PITS TO HAVE AN ENVIROPOD SERIES 200 FILTER INSTALLED (OR APPROVED EQUIVALENT) TYP.
- ALL STORMWATER PIPES TO DISCHARGE INTO FILTER CHAMBER WITHIN DETENTION TANKS.

EXISTING SERVICE NOTES

- THE LOCATIONS OF ALL EXISTING SURFACE PITS, VALVE COVERS, ETC. SHOWN ON DRAWINGS HAVE BEEN REPRODUCED FROM SURVEY THE LOCATION UNDERGROUND SERVICES HAVE BEEN NOTED FROM EXISTING RECORDS. AS DIFFERENCES WITH RECORDS MAY EXIST COMPLETE ACCURACY CANNOT BE GUARANTEED. ALL EXISTING SERVICES LOCATIONS SHALL BE VERIFIED ON SITE BY THE CONTRACTOR BEFORE COMMENCING WORK.
- PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE THE CONTRACTOR SHALL CALL DIAL BEFORE YOU DIG, CONTACT THE RELEVANT AUTHORITIES TO ASCERTAIN THE POSSIBLE LOCATION OF FURTHER SERVICES AND DETAILED LOCATION AND DEPTH OF ALL SERVICES AND ARRANGE FOR THEIR RELOCATION WHERE NECESSARY.
- ALL SERVICES ARE TO BE PROTECTED DURING CONSTRUCTION. ATTENTION IS DRAWN TO MINIMUM COVER REQUIREMENTS OVER EXISTING SERVICES. IN THE CASE OF PROPOSED SERVICES, FILL TO MINIMUM REQUIRED DEPTH ABOVE THE TOP OF THE SERVICE PRIOR TO TRENCH EXCAVATION. REFER RELEVANT STANDARDS REGARDING MINIMUM COVER REQUIREMENTS AND CLEARANCES.

LEGEND

- DENOTES DOWNPIPE
- DENOTES STORMWATER DRAINAGE PIPE. MATCH DP SIZE & EXTEND PIPES AT 1% MIN. TO NEAREST PIT AS SHOWN
- DENOTES GRATED DRAIN
- GRATED PIT
- PAVEMENT ACCEPTING ACCESS COVER OVER STORMFILTERS
- KIP KERB INLET PIT
- S.L. SURFACE LEVEL
- I.L. INVERT LEVEL
- INSPECTION OPENING
- DIRECTION OF PIPE FLOW



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Approved Application No. **SSD-9510**

Granted on the **21 May 2020**

Signed **JH**

Sheet No. **35** of **40**

SITE PLAN

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EJE architecture

REV	DATE	REVISION DETAILS
1	25.01.19	SCHEMATIC DESIGN ISSUE
2	26.06.19	ISSUED FOR TENDER REVIEW
3	12.07.19	ISSUED FOR TENDER REVIEW
4	16.07.19	ISSUED FOR TENDER
5	03.10.19	ISSUED FOR TENDER ADDENDUM

APP
MRB
MRB
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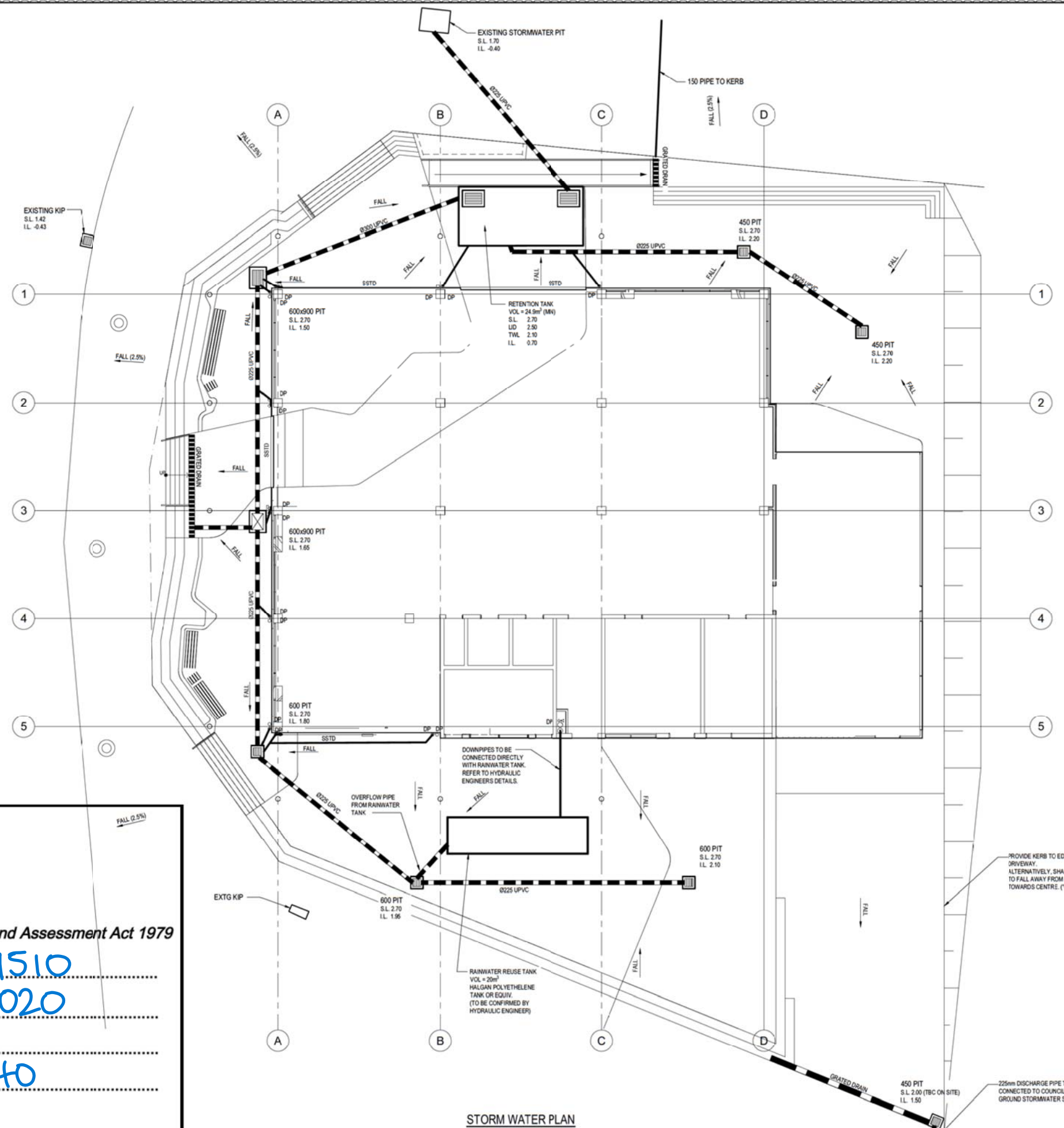
SCALE
1:100
DRAWN
MM
DESIGNED
MRB
REVIEWED
TKM

SIZE
B1

PRELIMINARY
NOT FOR CONSTRUCTION
APPROVED
DATE
M.BLYTH

PROJECT
TITLE
DRAWING No.

HCCD STAGE 1A
UNIVERSITY OF NEWCASTLE
SITE PLAN
PROJECT No. 504356
WBS 0003
TYPE DRG
DSG CV
NUMBER 0002
REV 5



- NOTES**
- FOR GENERAL DRAINAGE NOTES REFER TO DRG. CV-0002
 - ALL STORMWATER PIPES TO BE MIN 150mm UPVC U.N.O.
 - MIN PIPE GRADE 1%
 - DOWNPIPES (DP) LOCATION SHOWN INDICATIVELY ON PLAN. DP TO BE LOCATED AT GROUND LEVEL AS PER THE ARCHITECTURAL AND HYDRAULIC DRAWINGS. DP PIPE SIZE SHALL BE CONTINUED BELOW GROUND AND CONNECTED TO THE NEAREST STORMWATER PIT. INCREASED PIPE SIZES SHOWN * ON PLAN. (EQ 225MM UPVC)
 - PROVIDE INSPECTION OPENING (IO) AT CHANGES IN PIPE SIZE.
 - ALL STORMWATER INLET PITS TO HAVE ENVIROPOD SERIES 200 FILTER AND BASKET INSTALLED, OR APPROVED EQUIVALENT
 - BIOGARDEN EXTENTS AND DETAILS TO LANDSCAPE ENGINEERS DETAILS.
- LEGEND**
- DP DENOTES DOWNPIPE
 - DENOTES STORMWATER DRAINAGE PIPE, 225mm U.N.O. MATCH DP SIZE & EXTEND PIPES AT 1% MIN. TO NEAREST PIT AS SHOWN
 - DENOTES GRATED DRAIN
 - GRATED PIT
 - PAVES ACCEPTING ACCESS COVER OVER STORMFILTERS
 - KIP KERB INLET PIT
 - S.L. SURFACE LEVEL
 - I.L. INVERT LEVEL
 - INSPECTION OPENING
 - DIRECTION OF PIPE FLOW
 - SSTD STAINLESS STEEL THRESHOLD DRAIN (CONNECT TO STORMWATER SYSTEM)

Planning, Industry & Environment

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Approved Application No. **SSD-9510**

Granted on the **21 May 2020**

Signed **JH**

Sheet No. **36** of **40**

NOTES

1. FOR GENERAL NOTES REFER TO DRG. CV-002.
2. FOR PAVEMENT DETAILS REFER TO CV-006.
3. FOR CIVIL DETAILS REFER TO CV-006 & CV-007.
4. FALLS AND SURFACE LEVELS TO PAVEMENT AND COURT TO LANDSCAPE ARCHITECTS DETAILS.
5. REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR PLANTER BED DETAILS AND LOCATIONS.

CIVIL GENERAL NOTES

- G1 ALL CONCRETE TO HAVE 32MPa COMPRESSIVE STRENGTH UNLESS NOTED OTHERWISE.
- G2 REFER TO DRAWINGS CV-004 & CV-005 FOR DETAILS.
- G3 SLAB THICKENINGS FOR LANDSCAPE ARCHITECTS FURNITURE AND HANDRAIL NOT SHOWN ON PLAN. REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR EXTENTS.
- G4 SUBSOIL DRAINAGE TO BE PROVIDED BEHIND ALL VERTICAL STEPS IN LEVEL AND AS SPECIFIED BY LANDSCAPE ARCHITECT.

BULK EARTHWORKS NOTES

- BE1 BREAK UP & REMOVE EXISTING CONCRETE SLABS, STRIP ALL TOP SOIL, ASPHALT & VEGETATION FROM THE BUILDING AND PAVING AREA TO A DEPTH TO ACCOMMODATE THE FINISHED FLOOR AND PAVING LEVELS.
- BE2 CONTRACTOR TO ALLOW FOR THE EXPOSED SUBGRADE TO BE INSPECTED BY A GEOTECHNICAL ENGINEER TO PROVIDE ADVICE ON COMPACTION & FILLING REQUIREMENTS.
- BE3 CONTRACTOR TO ALLOW FOR THE FOLLOWING FILLING REQUIREMENTS. THESE ARE TO BE CONFIRMED BY A QUALIFIED GEOTECHNICAL ENGINEER AS IN NOTE BE2.
- THE EXPOSED AREA SHALL THEN BE PROOF ROLLED WITH A SMOOTH WHEELED SELF PROPELLED ROLLER WEIGHING NOT LESS THAN 10 TONNE TO ENSURE THAT NO LOCAL SOFT SPOTS EXIST.
 - THE TOP 150mm SHALL BE COMPACTED TO AT LEAST 100% STANDARD RELATIVE COMPACTION. REFER AS 1289.5.1.1 (2003).
 - IF ANY SOFT AREAS ARE REVEALED, THEY SHALL BE MADE GOOD WITH CLEAN GRANULAR FILL COMPACTED TO A DENSITY MATCHING THAT OF THE SURROUNDING SOIL.
 - IMPORTED FILL MATERIAL (IF REQUIRED) IS TO BE PLACED IN 150mm MAXIMUM LAYERS AND COMPACTED TO 97% STANDARD RELATIVE COMPACTION, EXCEPT THE TOP LAYER WHICH SHALL BE AS NOTED BELOW.
 - BENEATH PEDESTRIAN PAVING AREAS LAY 100mm BASE OF 14mm ONE SIZED SCREENINGS TO AS 1465 COMPACTED TO 98% MODIFIED RELATIVE COMPACTION. REFER AS 1289.5.1.1 (2003). BLEND WITH 3mm SINGLE SIZE SCREENINGS, AND LAY MOISTURE BARRIER AS REQUIRED.
 - BENEATH DRIVEWAY PAVING AREAS LAY 150mm BASE OF DOB 20 COMPACTED TO 98% MODIFIED RELATIVE COMPACTION. REFER AS 1289.5.1.1 (2003).
 - BENEATH SLAB ON GRADE PROVIDE 50 SAND LAYER AND VAPOUR PROOF BARRIER AS SHOWN ON STRUCTURAL DRAWINGS.

LEGEND

- DENOTES PAVEMENT TYPE 1.
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR JOINT LAYOUT.
- ▨ DENOTES PAVEMENT TYPE 2.
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR JOINT LAYOUT.
- ▩ DENOTES PAVEMENT TYPE 3.
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR JOINT LAYOUT.

PAVEMENT TYPE 1/2 UNO.
REFER TO LANDSCAPE ARCHITECT
DRAWINGS FOR EXTENTS.
REFER CV-006 FOR INDICATIVE DETAILS



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Approved Application No. **SSD-9510**

Granted on the **21 May 2020**

Signed **JH**

Sheet No. **37** of **40**

PAVEMENT PLAN

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REV	DATE	REVISION DETAILS
1	25.01.19	SCHEMATIC DESIGN ISSUE
2	26.06.19	ISSUED FOR TENDER REVIEW
3	12.07.19	ISSUED FOR TENDER REVIEW
4	16.07.19	ISSUED FOR TENDER
5	03.10.19	ISSUED FOR TENDER ADDENDUM

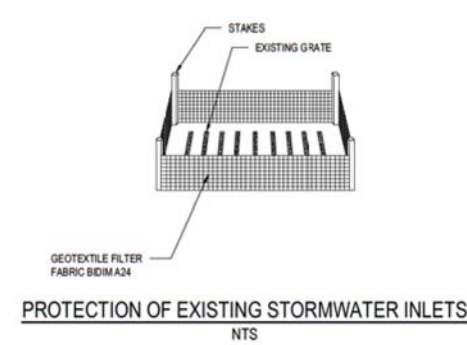
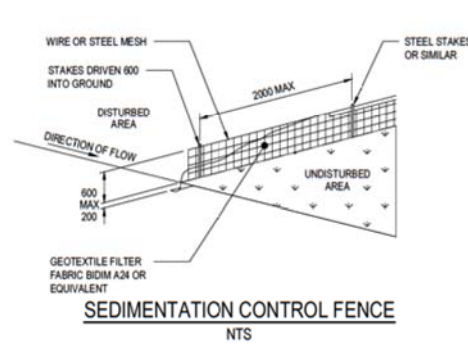
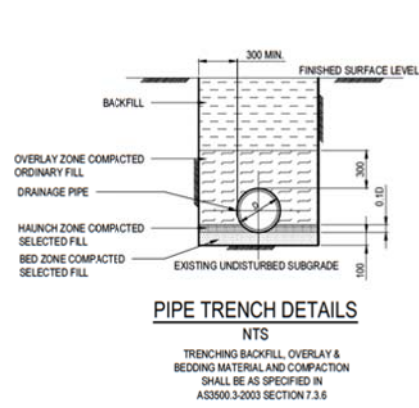
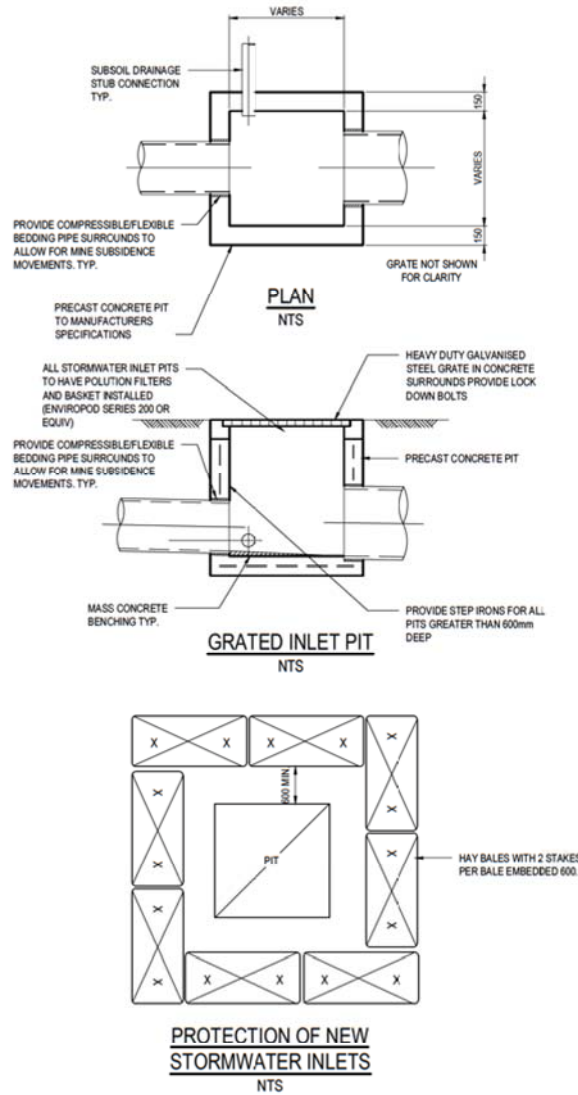
APP
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MRB
MRB
MRB

SCALE
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DRAWN
MM
DESIGNED
MRB
REVIEWED
TKM

SIZE
B1

PRELIMINARY
NOT FOR CONSTRUCTION
APPROVED
DATE
M.BLYTH

PROJECT	HCCD STAGE 1A UNIVERSITY OF NEWCASTLE
TITLE	PAVEMENT PLAN
DRAWING No.	504356
PROJECT No.	504356
WBS	0001
TYPE	DRG
DISC	CV
NUMBER	0004
REV	5



NOTES

- FOR GENERAL NOTES REFER TO DRG. CV-002.
- FOR PAVEMENT DETAILS REFER TO CV-006.
- FOR CIVIL DETAILS REFER TO CV-008 & CV-007.

SEDIMENT CONTROL PLAN

- THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES RELATING TO A PARTICULAR CATCHMENT PRIOR TO STRIPPING OF TOPSOIL FROM THAT CATCHMENT. WHERE IT IS NECESSARY TO UNDERTAKE STRIPPING IN ORDER TO CONSTRUCT A SEDIMENT CONTROL, DEVISE ONLY SUFFICIENT GROUND SHALL BE STRIPPED TO ALLOW CONSTRUCTION.
- ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED AS INDICATED ON THESE DRAWINGS AND NOMINATED IN COUNCIL'S SPECIFICATION AS DIRECTED BY THE ENGINEER. LOCATION AND EXTENT OF SOIL AND WATER MANAGEMENT DEVICES IS DIAGRAMMATIC ONLY AND THE ACTUAL REQUIREMENTS SHALL BE RECONFIRMED ON SITE PRIOR TO COMMENCEMENT.
- CONFORMITY WITH THIS PLAN SHALL IN NO WAY REDUCE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AGAINST EROSION AND SEDIMENTATION DUE TO WATER AND WIND DAMAGE DURING THE COURSE OF THE CONTRACT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ANY NECESSARY CONTROL IS IN PLACE EVEN THOUGH SUCH CONTROL MAY NOT BE SHOWN ON THE PLAN.
- THE CONTRACTOR SHALL INFORM ALL SUBCONTRACTORS AND ALL EMPLOYEES OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWN STREAM AREAS.
- THE CONTRACTOR SHALL REGULARLY MAINTAIN SEDIMENT AND EROSION CONTROL STRUCTURES AND DESILT SUCH STRUCTURES PRIOR TO THE REDUCTION IN CAPACITY OF 60% DUE TO ACCUMULATED SILT OR AS DIRECTED BY THE ENGINEER.
- TOPSOIL AND SPOIL SHALL BE STOCKPILED IN NON-HAZARDOUS AREAS AND PROTECTED FROM SURFACE RUN-ON AND RUN-OFF BY DIVERSION DRAINS OR SIMILAR. STOCKPILES SHALL BE SURROUNDED ON DOWNSTREAM SIDE BY SILT FENCING. WHERE THE STOCKPILING PERIOD EXCEEDS FOUR (4) WEEKS, THE STOCKPILE SHALL BE SEED TO ENCOURAGE VEGETATION GROWTH. THE SEDIMENT SHALL BE DISPOSED OF ON THE SITE IN A MANNER APPROVED BY THE ENGINEER.
- TOPSOIL SHALL BE RE-SPREAD AND STABILISED AS SOON AS POSSIBLE. DISTURBED AREAS SHALL BE LEFT WITH A SCARIFIED SURFACE TO ENCOURAGE WATER INFILTRATION AND ASSIST KEYING IN TOPSOIL.
- THE CONTRACTOR SHALL TEMPORARILY REHABILITATE WITHIN 20 DAYS ANY DISTURBED AREAS WHERE FINAL SHIPPING HAS OCCURRED. THE CONTRACTOR SHALL PROVIDE FINAL REHABILITATION WITHIN 20 DAYS.
- THE CONTRACTOR SHALL PROVIDE A MULCH STRIP MINIMUM 1.2m WIDE BEHIND ALL KERB AND GUTTER AT COMPLETION OF FOOTPATH FORMATION.
- THE CONTRACTOR SHALL PROVIDE INLET SEDIMENT TRAPS AT ALL PITS DURING CONSTRUCTION AND REPLACE WITH KERB INLET CONTROL AT COMPLETION OF INLET CONSTRUCTION.
- ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS QUICKLY AS POSSIBLE TO MINIMISE RISK OF EROSION.
- VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING CONSTRUCTION CONFINING ACCESS WHERE POSSIBLE TO THE PROPOSED OR EXISTING ROAD RESERVES. AREAS TO BE LEFT UNDISTURBED SHALL BE MARKED NO ACCESS AND CONTROLLED BY FENCING.
- SITE ACCESS SHALL BE RESTRICTED TO A NOMINATED POINT. THE CONSTRUCTION OF A SHAKEDOWN AREA MAY BE REQUIRED DEPENDING UPON THE SOIL CONDITIONS. DEBRIS ON EXISTING ROAD SHALL BE SWEEPED TO THE SATISFACTION OF COUNCIL'S SUPERVISOR.
- SEDIMENT BASINS SHALL BE IN ACCORDANCE WITH 'MANAGING URBAN STORM WATER, SOILS AND CONSTRUCTION' - 3rd EDITION, AUGUST 1998, SECTION 6.3.
- SEDIMENT BASINS SHALL BE MAINTAINED FOR THE ENTIRE DURATION OF THE PROJECT OR UNTIL SUCH TIME AS ALL DISTURBED AREAS ARE REVEGETATED TO THE SATISFACTION OF COUNCIL.
- WHERE FLOCCULATION OF BASINS IS REQUIRED, FLOCCULATION IS TO BE IN ACCORDANCE WITH 'MANAGING URBAN STORM WATER, SOILS AND CONSTRUCTION' - 3rd EDITION, AUGUST 1998, APPENDIX E.
- ANY DAMS TO BE DE-SILTED OF FILLED MATERIAL SHALL BE FLOCCULATED TO SETTLE ANY SUSPENDED SOLIDS. ANY NOXIOUS WEED PRESENT SHALL BE ERADICATED IN AN APPROVED MANNER PRIOR TO ANY WORKS COMMENCING. APPROVAL REQUIRED PRIOR TO PUMPING. CLEAR WATER SHALL THEN BE PUMPED OUT IN A MANNER THAT WILL NOT CAUSE DOWNSTREAM EROSION. THE DAM WALL SHALL THEN BE BREACHED AND ANY SILT REMOVED BE PLACED IN A SUITABLE CONSTRUCTED DRYING BASIN. WHEN DRY THE SILT SHALL BE REMOVED FROM SITE OR MIXED WITH TOPSOIL FOR FUTURE SPREADING.
- THE CONTRACTOR SHALL MAINTAIN CONTROL THROUGH THE ENTIRE DURATION OF THE PROJECT.
- THE CONTRACTOR SHALL MAINTAIN A LOG BOOK DETAILING:
 - RECORDS OF ALL RAINFALL
 - CONDITION OF SOIL AND WATER MANAGEMENT STRUCTURES
 - ANY APPLICATION OF FLOCCULATING AGENTS TO SEDIMENT BASINS
 - VOLUMES OF ALL WATER DISCHARGED FROM SEDIMENT BASINS
 - ANY ADDITIONAL REMEDIAL WORKS REQUIRED.
 THE LOG BOOK SHALL BE MAINTAINED ON A WEEKLY BASIS AND BE MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. THE ORIGINAL LOG BOOK SHALL BE ISSUED TO THE PROJECTS MANAGER AT THE COMPLETION OF WORKS.

Construction Notes

- Strip the topsoil, level the site and compact the subgrade.
- Cover the area with needle-punched geotextile.
- Construct a 200-mm thick pad over the geotextile using road base or 30-mm aggregate.
- Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres wide.
- Where a sediment fence joins onto the stabilised access, construct a hump in the stabilised access to divert water to the sediment fence

STABILISED SITE ACCESS

SD 6-14

6-48



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Environment

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Approved Application No. 550-9510

Granted on the 21 May 2020

Signed JH

Sheet No. 38 of 40

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EJE architecture

REV	DATE	REVISION DETAILS	APP
1	25.01.19	SCHEMATIC DESIGN ISSUE	MRB
2	26.06.19	ISSUED FOR TENDER REVIEW	MRB
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4	16.07.19	ISSUED FOR TENDER	MRB

SCALE	SIZE
1:100	B1
DRAWN	MM
DESIGNED	MRB
REVIEWED	TKM

PRELIMINARY NOT FOR CONSTRUCTION	DATE
APPROVED	M.BLYTH

PROJECT	HCCD STAGE 1A UNIVERSITY OF NEWCASTLE							
TITLE	CIVIL DETAILS SHEET 1							
DRAWING No.	PROJECT No.	WBS	TYPE	DISC	NUMBER	REV		
504356	—	0001	—	DRG	—	CV	—	0005
								4



REFER TO LANDSCAPE ARCHITECT DRAWINGS FOR FINISHES & COLOURED ADDITIVES