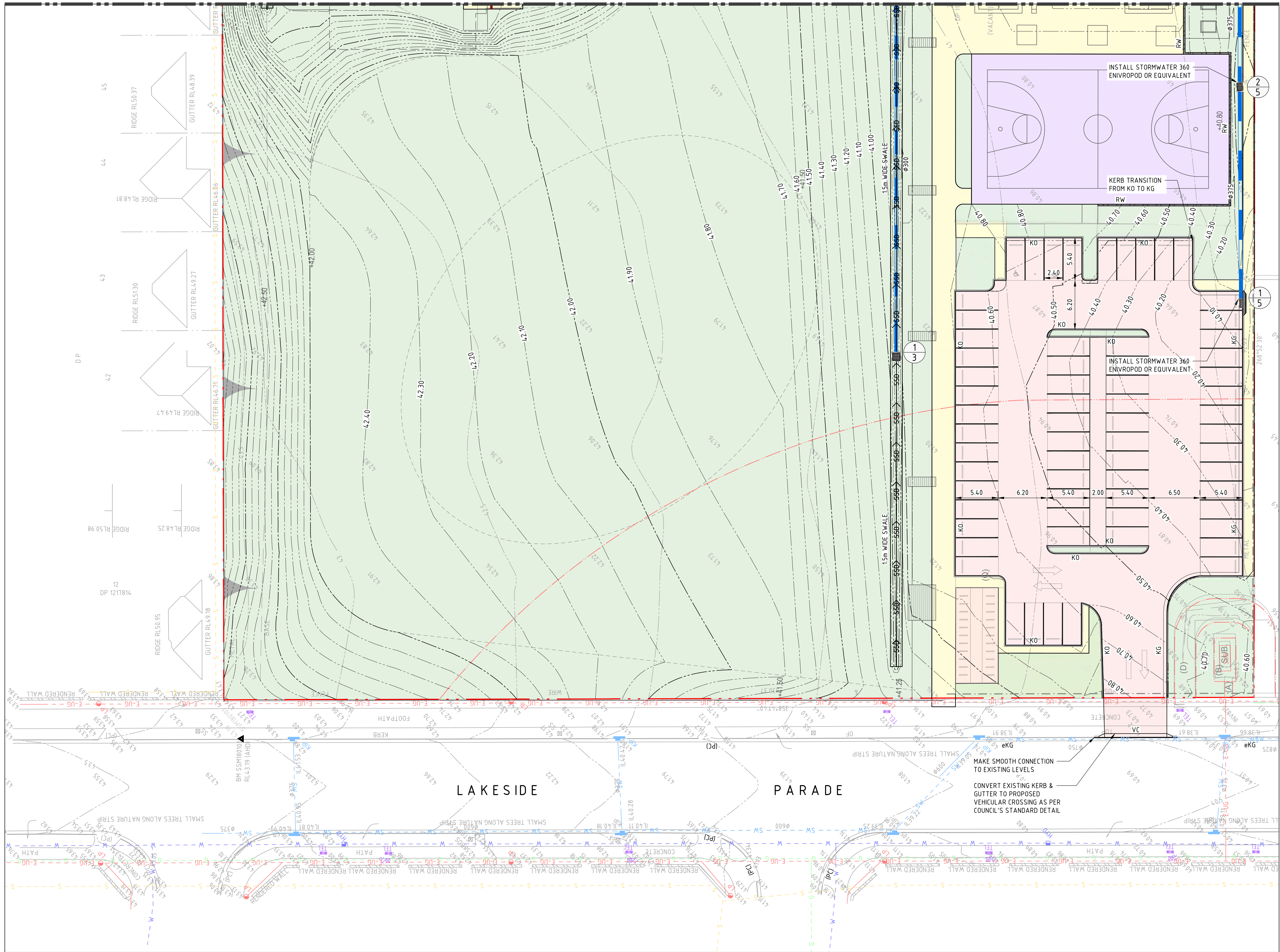


FOR CONTINUATION REFER TO SHEET 02



LEGEND

- BOUNDARY LINE
- EASEMENT LINE
- PROPOSED KERB
- EXISTING KERB
- SAWCUT AND PAVEMENT INFILL
- EXISTING KERB 'TYPE AS BELOW'
- KO ONLY
- KERB AND GUTTER
- VEHICULAR CROSSING
- KR
- KERB RAMP
- PROPOSED SPOT HEIGHT
- EXISTING SPOT HEIGHT
- PROPOSED FINISHED FLOOR LEVEL
- DIRECTION OF GRADE
- BATTERS
- CONTOURS
- EXISTING CONTOURS
- DRAINAGE SWALE
- V-SHAPED CHANNEL
- SUBSOIL DRAINAGE LINE
- GRATED TRENCH DRAIN
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
- STORMWATER PIPE
- RAINWATER PIPE
- EXISTING STORMWATER PIPE (ALTERNATIVE)
- STORMWATER PIT TAG
- STRUCTURE No / LINE ID
- RAINWATER HARVESTING TANK
- ROCK HEADWALL
- RIP RAP ENERGY DISSIPATER
- RETAINING WALL - TYPE 1
- PAVEMENT - TYPE 1
- FOOTPATH - TYPE 1
- RIVER BED
- LANDSCAPING - TYPE 1
- BASKETBALL COURT - REFER TO LANDSCAPE ARCHITECTS FOR DETAIL
- PLAYGROUND - REFER TO LANDSCAPE ARCHITECTS FOR DETAIL

GENERAL NOTES:

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- CONTRACTOR TO ALLOW TO ADJUST AND LIAISE WITH RELEVANT SERVICE AUTHORITIES IN RELATION TO EXISTING SERVICE ADJUSTMENT AND MODIFICATIONS.

NOT FOR CONSTRUCTION

DRAWN: C. PASKE
DESIGNED: J. GRINSELL
JOB MANAGER: J. GILLIGAN
VERIFIER:

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
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5	ISSUED FOR SSDA	VC		JG	31.05.19

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PROJECT JORDAN SPRINGS PRIMARY SCHOOL 14-28 CULLEN AVENUE, JORDAN SPRINGS

DRAWING TITLE CIVIL ENGINEERING PACKAGE DEVELOPMENT APPLICATION SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 01

JOB NUMBER 182535	REVISION 5
DRAWING NUMBER DAC04.01	DRAWING SHEET SIZE = A1

DRAWN: C. PASKE
DESIGNED: J. GRINSELL
JOB MANAGER: J. GILLIGAN
VERIFIER:

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
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5	ISSUED FOR DEVELOPMENT APPLICATION	VC		JRG	15.05.19
6	ISSUED FOR DEVELOPMENT APPLICATION	VC		JRG	16.05.19

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ARCHITECT

GROUP USA

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SCALE 1:250@A1

0 2 4 6 8 10 12m

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Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT

JORDAN SPRINGS PRIMARY SCHOOL

**14-28 CULLEN AVENUE,
JORDAN SPRINGS**

DRAWING TITLE

**CIVIL ENGINEERING PACKAGE
DEVELOPMENT APPLICATION**

**SITWORKS AND STORMWATER
MANAGEMENT PLAN - SHEET 02**

JOB NUMBER

182535

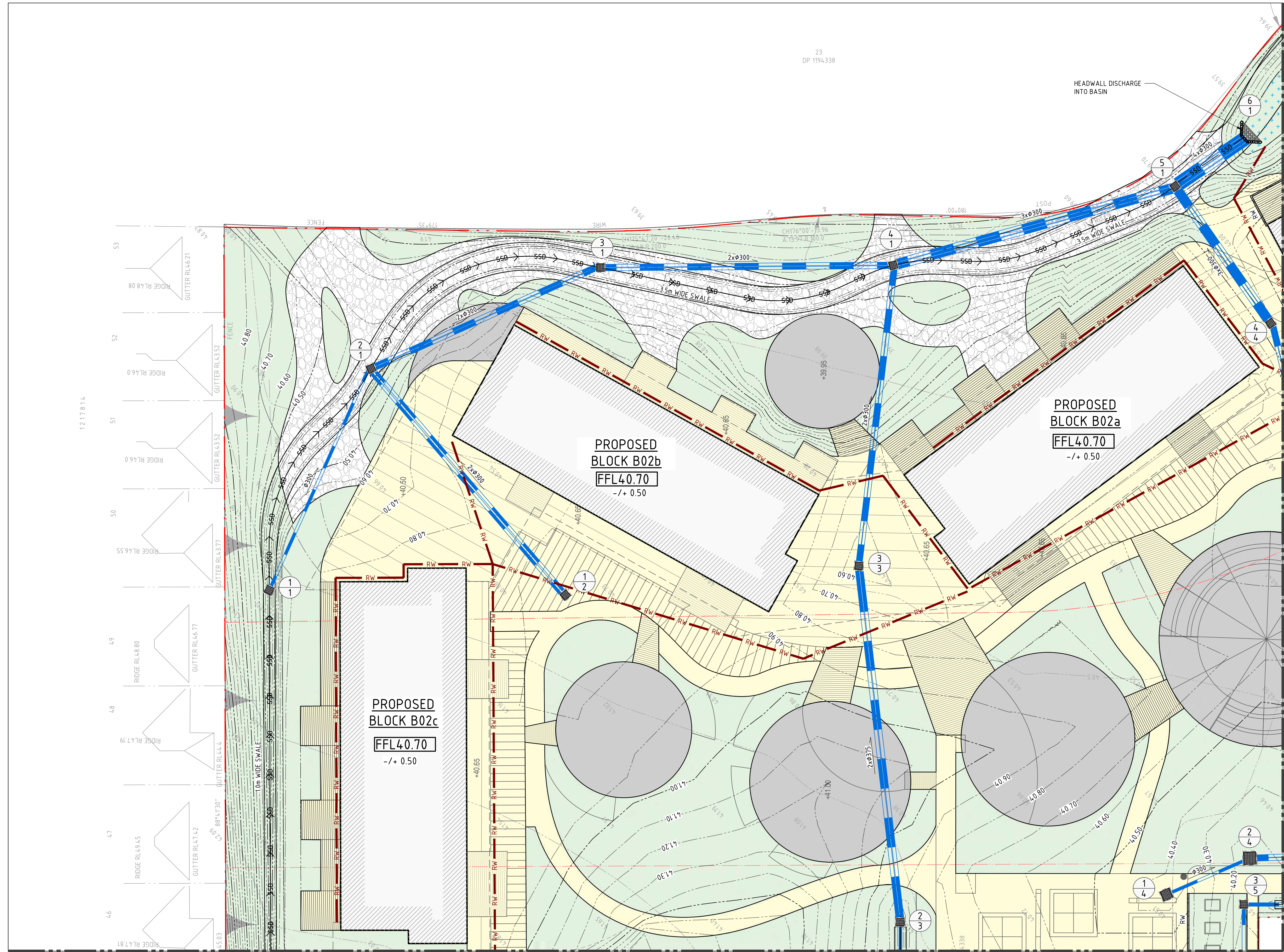
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DAC04.02

REVISION

6

DRAWING SHEET SIZE = A1



LEGEND

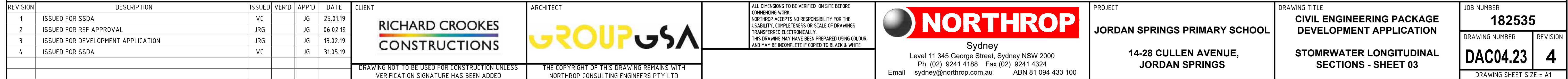
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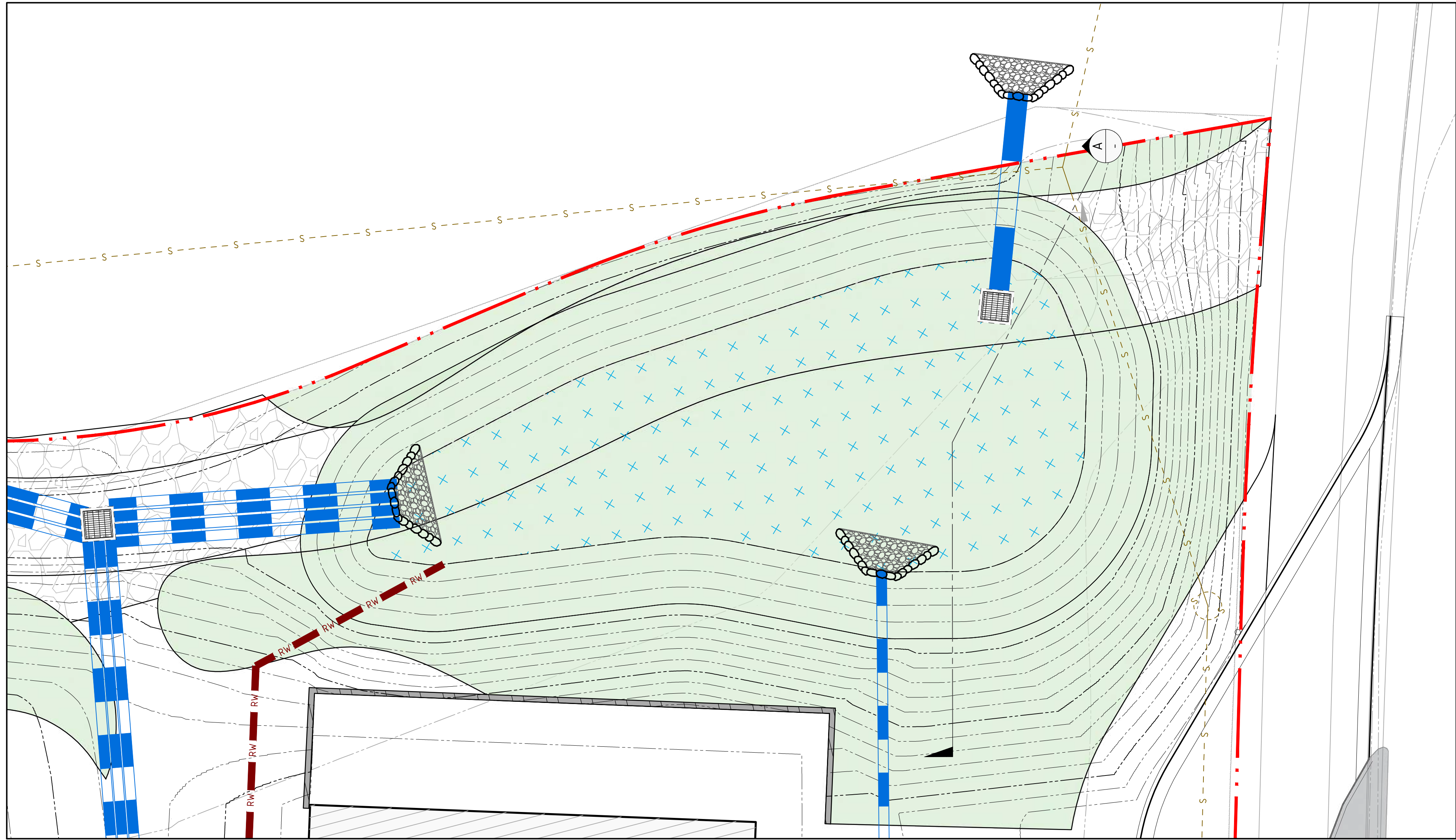
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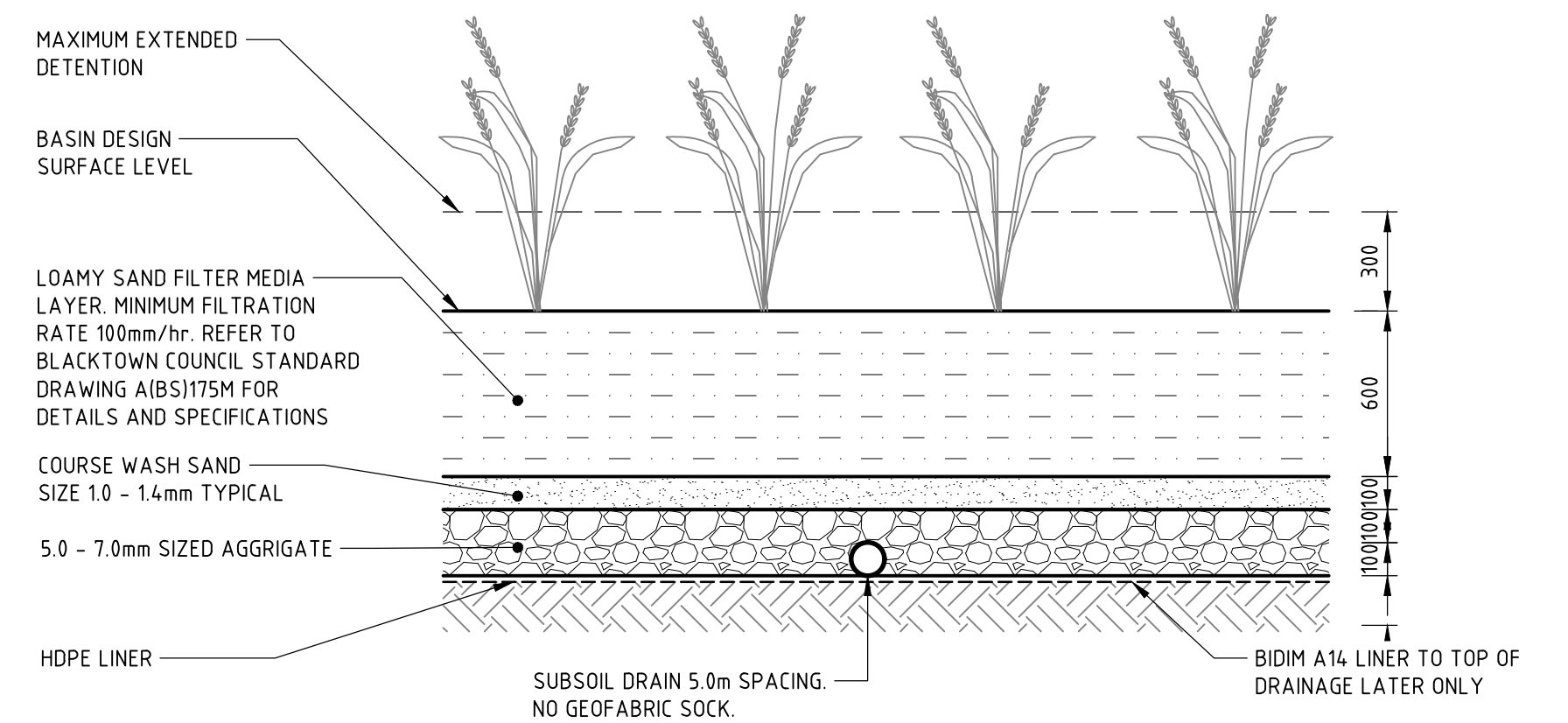


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1	ISSUED FOR SSDA		VC	JG	25.01.19			 Sydney Level 11 345 George Street, Sydney NSW 2000 Ph (02) 9241 4188 Fax (02) 9241 4324 Email sydney@northrop.com.au ABN 81 094 433 100	JORDAN SPRINGS PRIMARY SCHOOL 14-28 CULLEN AVENUE, JORDAN SPRINGS	CIVIL ENGINEERING PACKAGE DEVELOPMENT APPLICATION STOMRWATER LONGITUDINAL SECTIONS - SHEET 01	182535
2	ISSUED FOR REF APPROVAL		JRG	JG	06.02.19						
3	ISSUED FOR DEVELOPMENT APPLICATION		JRG	JG	13.02.19						
4	ISSUED FOR SSDA		VC	JG	31.05.19						
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DRAWING NUMBER DAC04.21 REVISION 4											
DRAWING SHEET SIZE = A1											

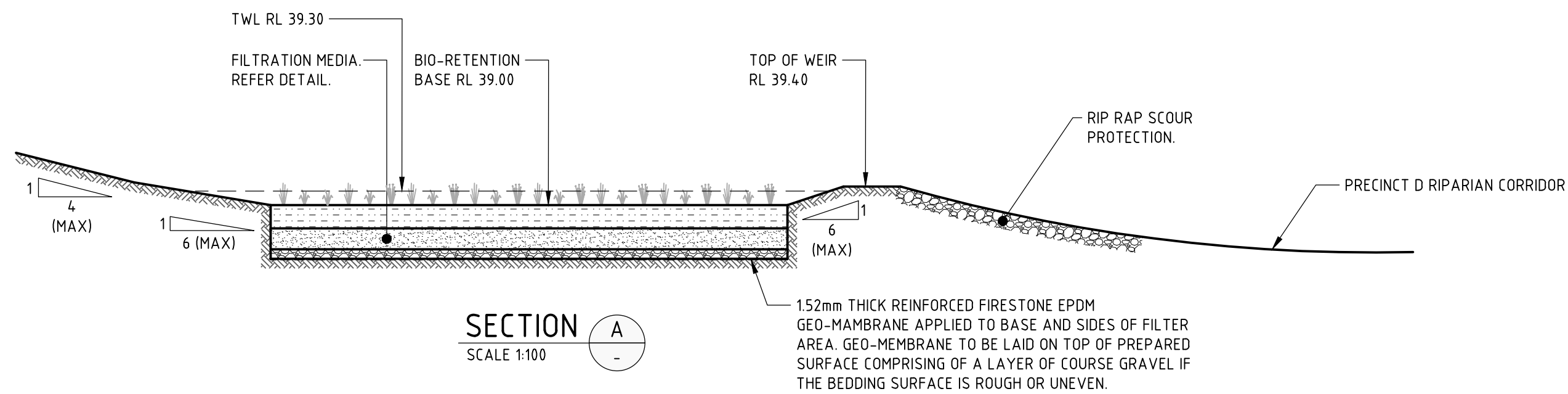




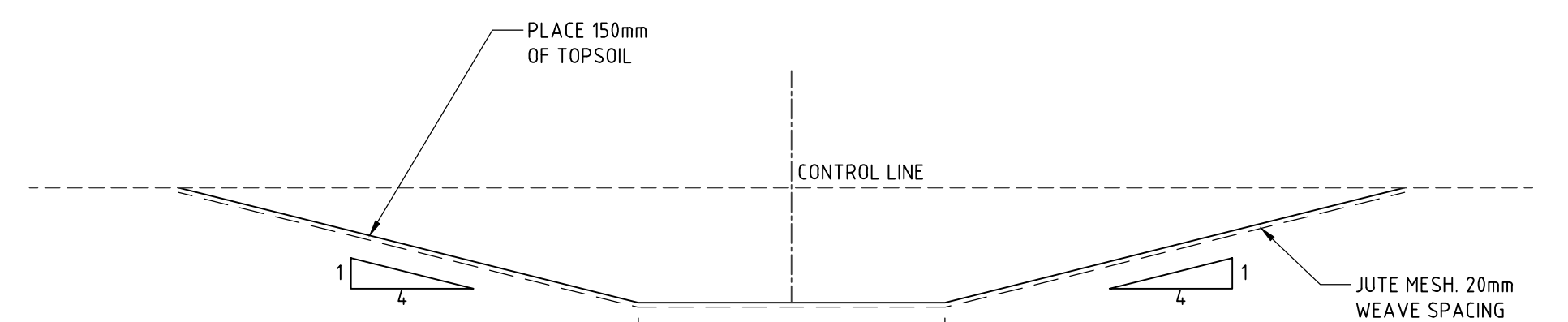
BASIN PLAN
SCALE 1:100



BIO-FILTRATION FILTER DETAIL



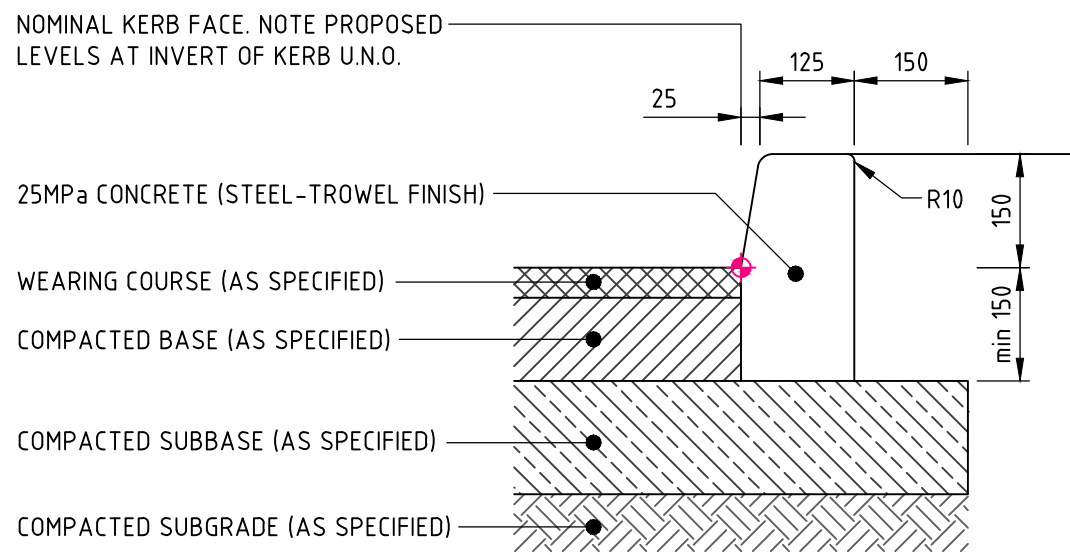
SECTION A
SCALE 1:100



TAIL OUT DRAIN DETAIL
SCALE NTS

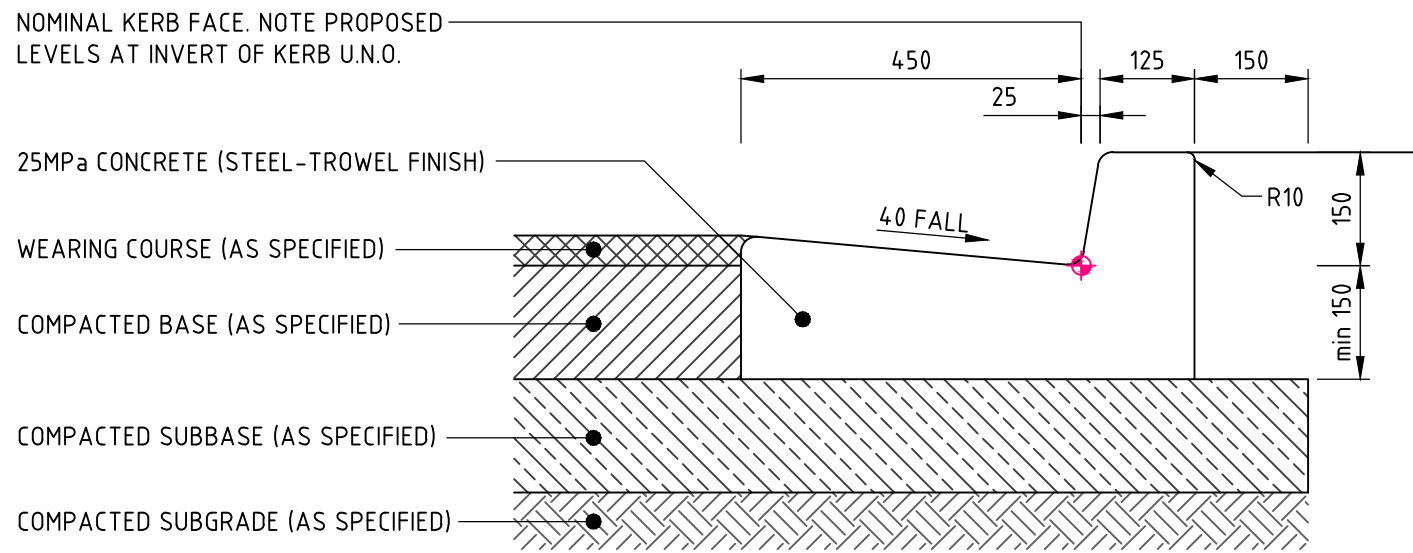
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														DRAWING SHEET SIZE = A1



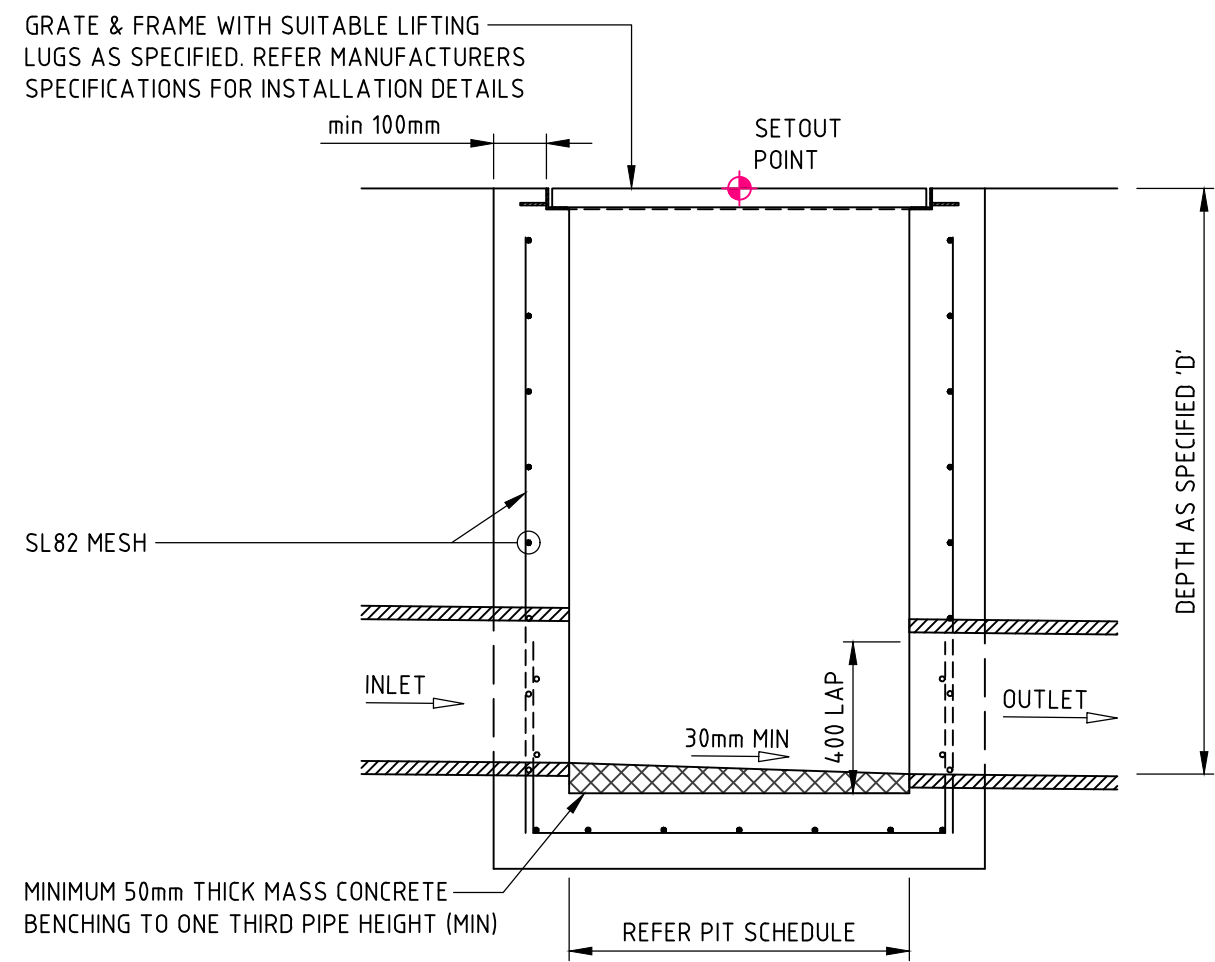
KERB ONLY 'KO'

EXPANSION JOINTS @ MAX 12m CTRS / TOOL JOINTS @ MAX 3m CTRS
ALL RADII TO BE 20mm U.N.O.

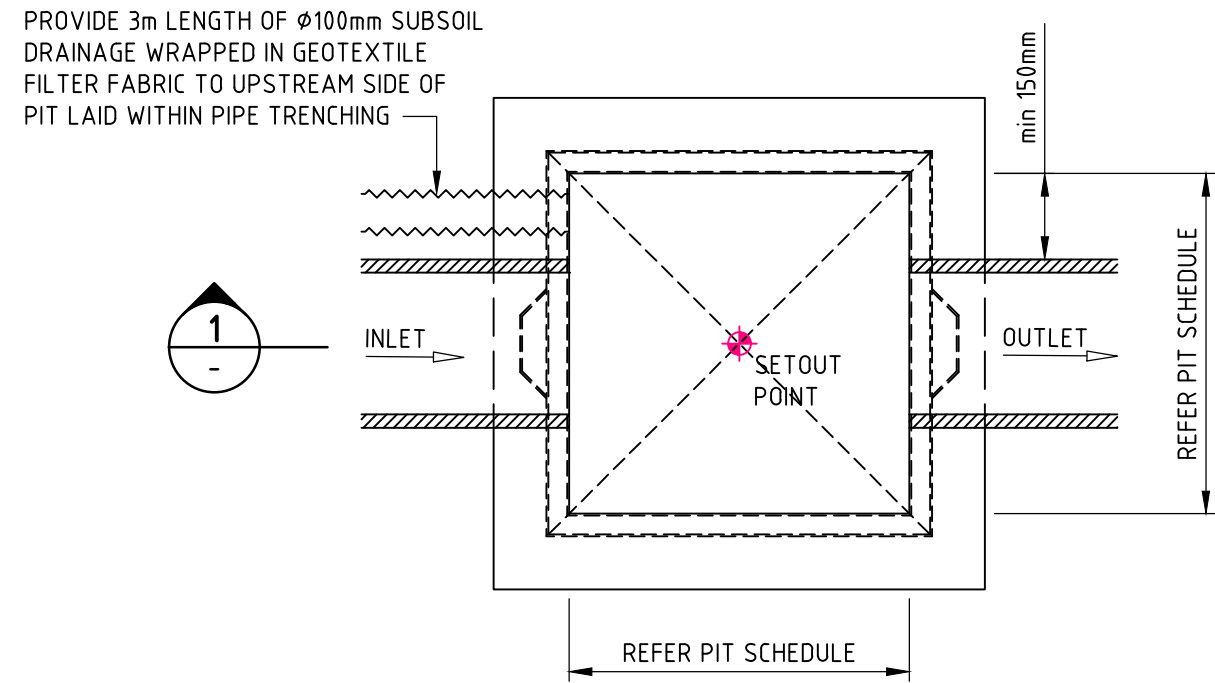


KERB & GUTTER 'KG'

EXPANSION JOINTS @ MAX 12m CTRS / TOOL JOINTS @ MAX 3m CTRS
ALL RADII TO BE 20mm U.N.O.

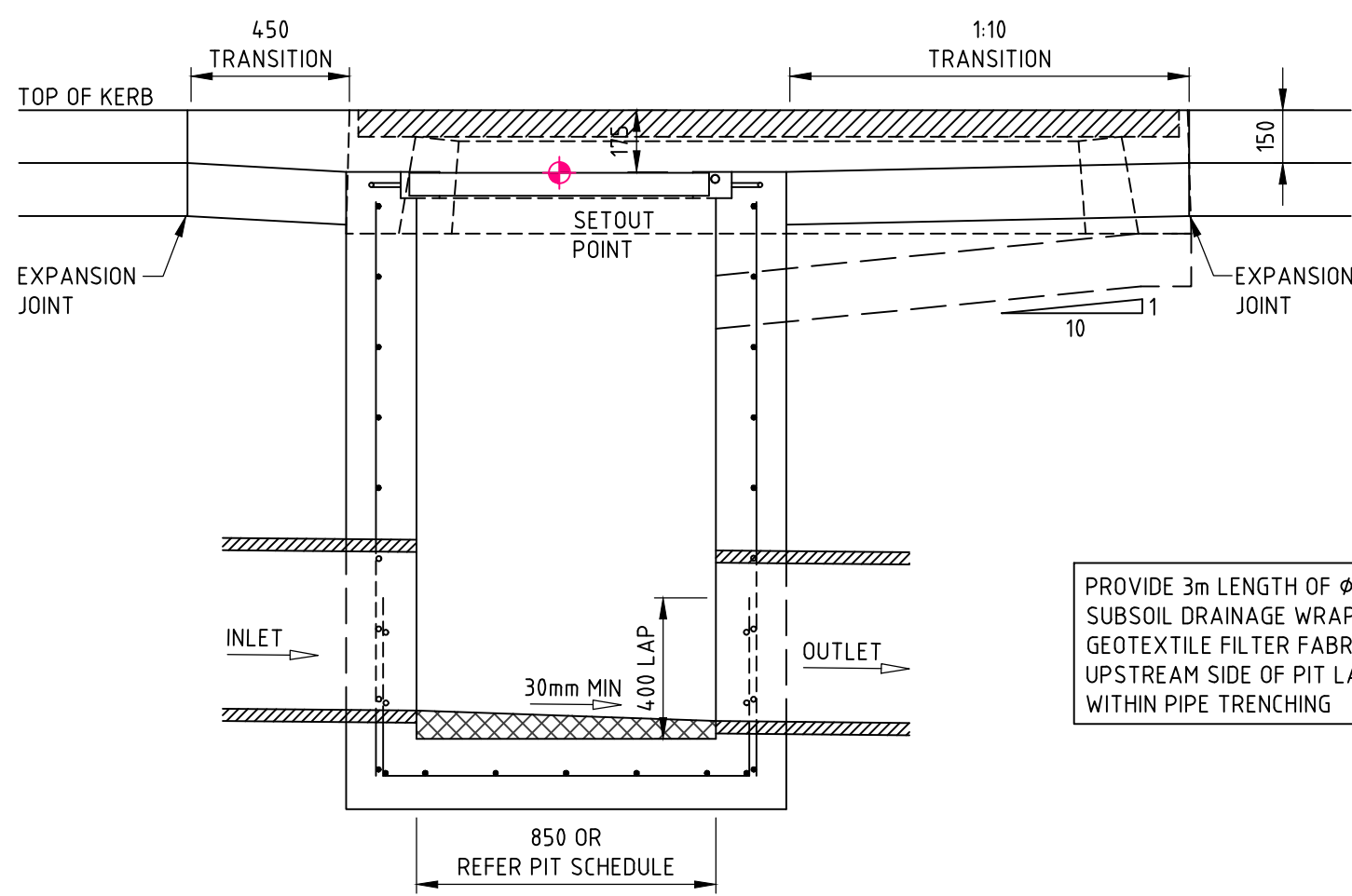


SECTION 1

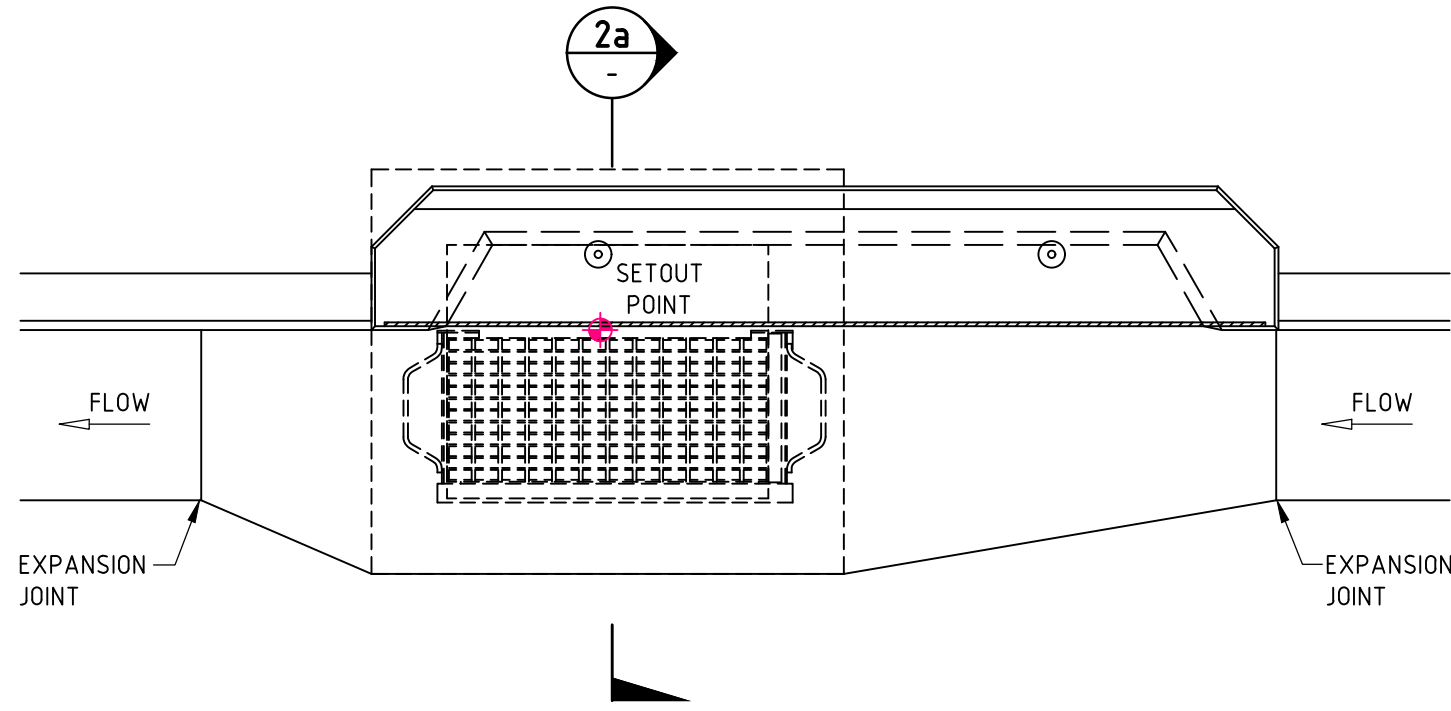


PLAN
SURFACE INLET 'SIP' / JUNCTION PIT 'JP'

PIT STRUCTURE TO BE 200mm THICK UNLESS SHOWN OTHERWISE. DRILL AND EPOXY PLASTIC PROPRIETARY STEP IRONS IN ACCORDANCE WITH AUSTRALIAN STANDARDS AND MANUFACTURERS SPECIFICATIONS (PITS > 1000mm DEPTH).
REFER PIT INTERFACE DETAIL 'F' FOR CORNER REINFORCEMENT



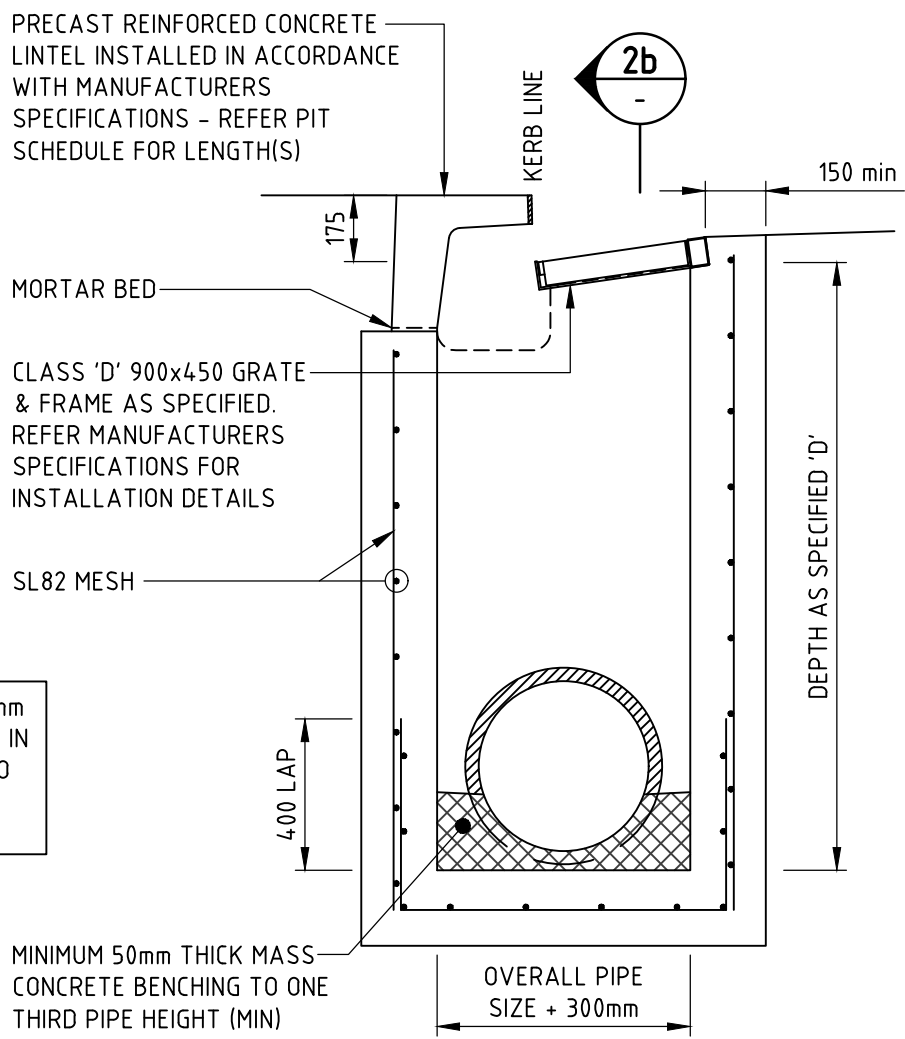
SECTION 2b



PLAN

KERB INLET PIT 'KIP'

PIT STRUCTURE TO BE 200mm THICK UNLESS SHOWN OTHERWISE. DRILL AND EPOXY PLASTIC PROPRIETARY STEP IRONS IN ACCORDANCE WITH AUSTRALIAN STANDARDS AND MANUFACTURERS SPECIFICATIONS (PITS > 1000mm DEPTH).
REFER PIT INTERFACE DETAIL 'F' FOR CORNER REINFORCEMENT



SECTION 2a

FOR SAG PITS, ENSURE PIT LINTEL IS LOCATED CENTRAL TO PIT GRATE AND FRAME AND 1:10 CHUTE IS CONSTRUCTED TO BOTH SIDES OF PIT

REFER EXTENDED CHAMBER PIT DETAIL FOR PIPEWORK IN EXCESS OF 450 AND WHERE REQUIRED

STANDARD DETAILS

ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY TO NORTHP ENGINEERS FOR CLARIFICATION		
COUNCIL DETAILS - BLACKTOWN CITY COUNCIL		
COMPONENT	DWG REFERENCE	DRAWING TITLE
KERB AND GUTTER	A(BS) 101M	STD KERBS AND GUTTERS
LAYBACK	A(BS) 102S	STANDARD RESIDENTIAL FOOTWAY AND LAYBACK CROSSING
LAYBACK	A(BS) 103S	STD INDUSTRIAL & COMMERCIAL FOOTWAY CROSSINGS
KERB RAMP	A(BS) 104M	PATH PAVING AT INTERSECTIONS AND KERB RAMP DETAILS

DRAWN: C. PASKE
DESIGNED: J. GRINSELL
JOB MANAGER: J. GILLIGAN
VERIFIER:

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SCALE VARIES	

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Sydney	
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PROJECT	
JORDAN SPRINGS PRIMARY SCHOOL	
14-28 CULLEN AVENUE, JORDAN SPRINGS	

DRAWING TITLE	
CIVIL ENGINEERING PACKAGE DEVELOPMENT APPLICATION	
DETAILS - SHEET 01	

JOB NUMBER	
182535	
DRAWING NUMBER	REVISION
DAC09.01	4
DRAWING SHEET SIZE = A1	

NOT FOR CONSTRUCTION

JORDAN SPRINGS PRIMARY SCHOOL

SSDA LANDSCAPE SET



DRAWING SCHEDULE

L-0000	COVER SHEET
L-0001	SITE PLAN
L-1000	CENTRAL PLAY AREA
L-1001	UPPER PLAY AREA
L-1002	BUSH GARDEN - WESTERN BOUNDARY
L-5100	TREE PLANTING STRATEGY
L-5200	TREE SCHEDULE
L-5001	PLANTING SHCEDULES
L-5002	PLANTING SCHEDULES
L-6001	GENERAL SECTIONS PART 1
L-6002	GENERAL SECTIONS PART 2
L-6003	ELEVATION CULLEN AVE



LEGEND

- 1 School entry/drop off zone
- 2 Accessible drop off & parking alongside garbage storage & service access.
- 3 Pedestrian access & entry path.
- 4 Gathering space with shade and seating.
- 5 Outdoor seating/break out space.
- 6 Handball courts.
- 7 Informal lawn.
- 8 Playground.
- 9 Nature play.
- 10 Food growing.
- 11 Ramp to double slide.
- 12 Emergency access
- 13 Break out space adjacent to school hall/gym
- 14 Covered school entry.
- 15 Outdoor learning areas.
- 16 Bush garden/outdoor learning.
- 17 Native planting to boundary.
- 18 Defensible space (fire) which accomodates swale (stormwater runoff)
- 19 Detention basin with vehicular access (maintenance).



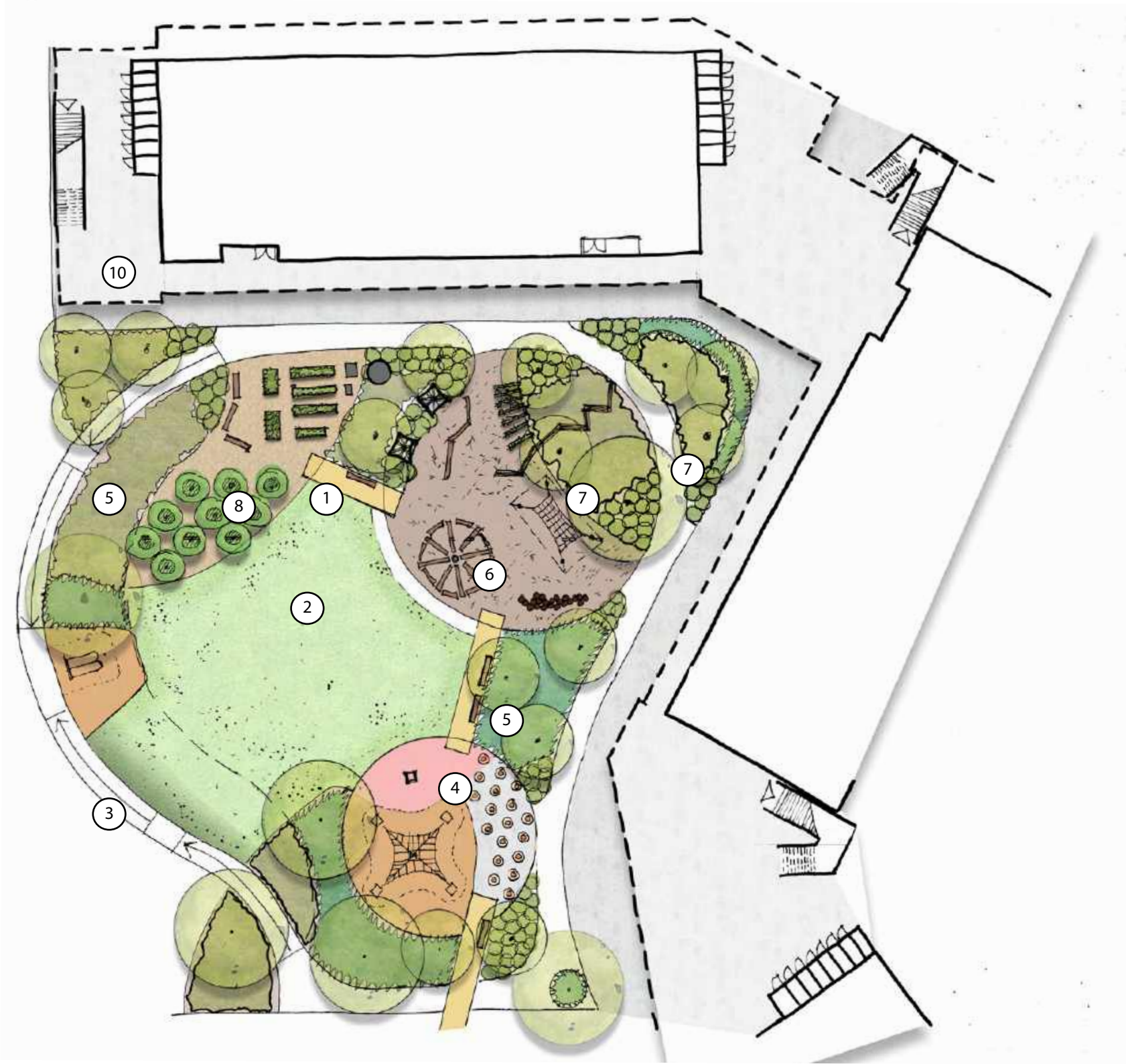
LEGEND

- 1 Covered entry to school.
- 2 Gathering place/plaza with shade and seating.
Central deck at varying heights.
- 3 Pergola - slatted & vine-vine covered sections.
Defined by trees in groundcovers.
- 4 Feature trees.
- 5 Turf area - contrast to surrounding surfaces,
contained internal play area.
- 6 Break-out space - seating & tables with shade
trees in close proximity to canteen.
- 7 Handball courts - ball play areas.
- 8 Play area - multi play equipment
- 9 Connection to other zones.
- 10 Pedestrian connection (from staff carpark)



LEGEND

- ① Linking paths with seating and shade between activity zones.
- ② Internal turf area.
- ③ Loop path defines upper playground space. Opportunity for educational markings along path - e.g. measuring length.
- ④ Play zone - climbing and balance for gross motor skills. Ball toss or creative play - line markings.
- ⑤ Mass planting areas with trees for shade & enclosure.
- ⑥ Nature play zone - focus on natural materials & elements.
- ⑦ Sensory garden highlights textures, scent colour within garden.
- ⑧ Food growing area - Raised timber planters potting table, seating, small orchard & water tank.
- ⑨ Double slide - accessible play with rubber softfall. Play link to upper oval.
- ⑩ Potential to store garden equipment under stairwell.



LEGEND

- 1 Outdoor learning spaces - decks.
- 2 COLA - Covered Outdoor Learning Area
- 3 "Bush" meeting place/nature classroom. Utilise rocks or logs for seating in circle arrangement.
- 4 Connect decks to pathways through space. Utilise installments in the environment: wind, solar, water gauge, temperature.
- 5 Dry creek bed.
- 6 Native vegetation - highlight native indigenous plants.
- 7 Mechanical plants - to be screened using timber slats and vegetation. Allow for service access from landscaped area.
- 8 Defensible Space (fire control - tree canopy not to exceed 15% of total area.
- 9 Additional fence to overland flow path.
- 10 Area required overland flow. No obstacles or boulders to be placed with 5 meter setback from boundary.



LEGEND



FEATURE TREES - NATIVE EVERGREEN



Corymbia exima



Corymbia ficifolia



Calistemon salingus



Corymbia exima 'nana'

FEATURE TREES - DECIDUOUS



Fraxinus 'Urbanite'



Lagerstroemia 'Natchez'



Pyrus ussuriensis

BUSH GARDEN - CANOPY



Acacia parramattensis



Bursaria spinosa



Corymbia maculata



Jacksonia scoparia



Melaleuca armillaris



Corymbia ficifolia

BOUNDARY PLANTING			
BOTANIC NAME	COMMON NAME	MATURE SIZE (H x W) m	NATIVE (N) ENDEMIC (E)
<i>Dodonaea viscosa</i>	Hop Bush	4 x 3	N
<i>Eucalyptus species</i>	Various	Varies	N
<i>Bursaria spinosa</i>	Sweet Bursaria	3 x 2	E
<i>Callistemon "Endeavour"</i>	Bottlebrush	3 x 3	N
<i>Melaleuca decora</i>	White Feather Honey Myrtle	6 x 4	E
<i>Melaleuca linariifolia</i>	Swamp paperbark	9 x 5	N
FEATURE TREES Native, Evergreen			
BOTANIC NAME	COMMON NAME	MATURE SIZE (H x W) m	NATIVE (N) ENDEMIC (E)
<i>Corymbia eximia</i>	Yellow Bloodwood	15 x 7	E
<i>Corymbia eximia "nana"</i>	Dwarf Yellow Bloodwood	8 x 4	N
<i>Corymbia maculata</i>	Spotted gum	25 x 10	E
<i>Corymbia ficifolia grafted</i>	Dwarf grafted Eucalypt	6 x 5	N
<i>Callistemon salignus</i>	White Bottlebrush	7 x 4	N
<i>Eucalyptus crebra</i>	Narrow leaved ironbark	25m +	E
<i>Eucalyptus molucanna</i>	Grey Box	25m +	E
<i>Eucalyptus parramattensis</i>	Parramatta Red Gum	10 x 7	E
<i>Eucalyptus punctata</i>	Grey Gum	20 x 8	E
FEATURE TREES Deciduous			
BOTANIC NAME	COMMON NAME	MATURE SIZE (H x W) m	NATIVE (N) ENDEMIC (E)
<i>Fraxinus "Urbanite"</i>	Ash	15 x 8	
<i>Lagerstroemia "Natchez"</i>	Crepe Myrtle white flowering	6 x 6	
<i>Pyrus ussuriensis</i>	Manchurian Pear	14 x 12	
<i>Ulmus parvifolia</i>	Chinese Elm "Todd"	10 x 11	

DECIDUOUS TREES



Fraxinus urbanite



Lagerstroemia sp.



Ulmus parvifolia Todd



Pyrus sp.

NATIVE TREES



Banksia integrifolia



Callistemon viminalis



Melaleuca decora



Melaleuca ericifolia



Melaleuca linariifolia



Tristania "Luscious"

NATIVE SHRUBS



Banksia ericifolia



Callistemon Captain Cook



Caothamnus quadrifidus



Grevillea species



Philotheca myoporoides



Westringia fruticosa



Melaleuca "Claret Tops"

NATIVE GRASSES & GROUNDCOVERS



Caex appressa



Capobrotus glaucescens



Chrysocephalum apiculatum



Dianella "Little Jess"



Lomandra "Tanika"



Pennisetum "Nafray"



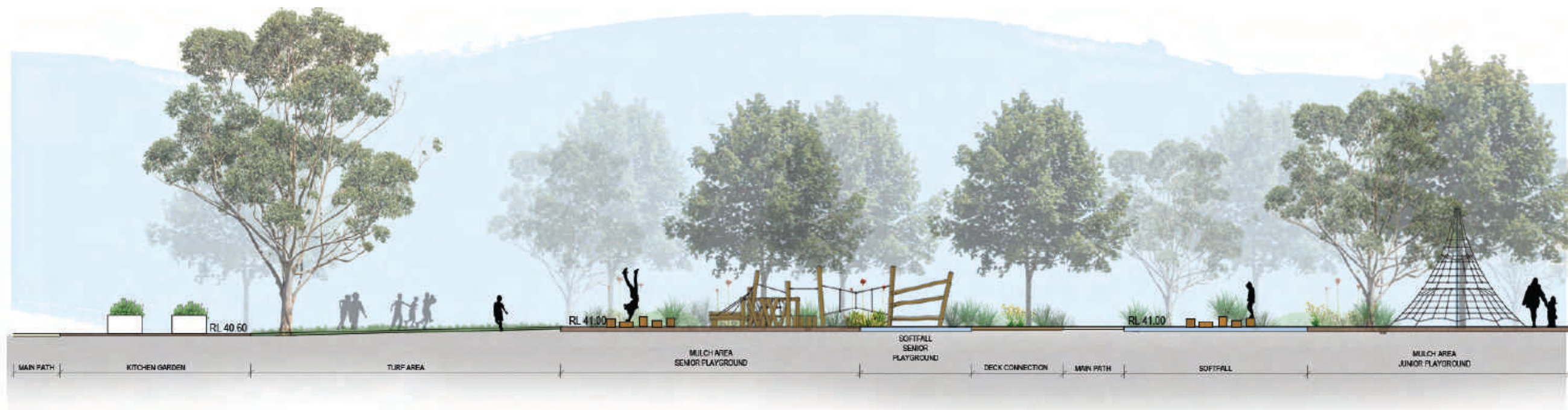
Poa "Eskdale"

BOTANIC NAME	COMMON NAME	INSTALLATION SIZE	MATURE SIZE (H x W) m	
CENTRAL PLAY SPACES				
DECIDUOUS TREES				
Jacaranda mimosifolia	Jacaranda	400 Lt	15 x 15	
Lagerstroemia indica	Crepe Myrtle	200L	8 x 6	
Pyrus calleryana "Chanticleer"	Chanticleer Ornamental Pear	100 L	10 x 7	
Pyrus ussuriensis	Ornamental Pear	100 L	12 x 8	
NATIVE TREES				SPACING (mm)
Banksia Integrifolia	Coastal Banksia	45L	7 x 4	As shown
Callistemon viminalis	Weeping bottlebrush	45L	8 x 5	As shown
Melaleuca decora	White Feather Honey Myrtle	45L	6 x 4	As shown
Melaleuca ericifolia	Swamp paperbark	45L	9 x 5	As shown
Melaleuca linariifolia	Snow in Summer	45L	10 x 4	As shown
Tristaniopsis laurina "Luscious"	Water Gum	45L	12 x 5	As shown
NATIVE SHRUBS				SPACING (mm)
Banksia ericifolia	Heath Banksia	25 L	2 x 2	1200
Callistemon 'Captain Cook'	Dwarf Red Bottlebrush	25 L	1.5 x 1.5	800
Calothamnus quadrifus	Net Bush	200mm	1.5 x 2.0	1000
Hibbertia diffusa	Wedge Guinea Flower	140mm	0.4 x 0.6	400
Leptospermum "Little Bun"	Dwarf Tea tree	200mm	2 x 1.5	600
Melaleuca "Claret Tops"	Honey Myrtle	200mm	1.0 x 0.8	600
Plectranthus argentatus	Silver spur	200mm	1 x 1	700
Philotheca "Profusion"	Eriostemon	200mm	1.5 x 1.5	800
Pimelea nivea	Cotton bush	140mm	0.6 x 2	1000
Prostanthera sieberi	Native Mint Bush	140mm	1 x 1.5	1000
Westringia fruticosa	Native Rosemary	200mm	1.5 x 1.5	600
NATIVE GRASSES & GROUNDCOVERS				SPACING (mm)
Carex apressa	Tall sedge	150mm	0.8 x 0.6	300
Carpobrotus glaucescens	Pigface	150mm	0.3 x 1.5	800
Chrusocephalum apiculatum	Yellow Buttons	150mm	0.3 x 0.5	400
Cissus antarctica	Kangaroo vine	150mm	0.5 x 1.5	600
Dianella 'Little Jess'	Little Jess Dianella	150mm	0.4 x 0.4	300
Lomandra longafolia 'Tanika'	Lomandra Tanika	150mm	0.5 x 0.5	400
Pennisetum Nafray	Fountain Grass	150mm	0.6 x 0.6	400
Pennisetum "Penstripe"	Fountain Grass	150mm	0.45 x 0.45	400
Pennisetum "Rubrum"	Fountain Grass	150mm	1 x 1	600
Poa labillardieri "Eskdale"	Tussock grass	150mm	1 x 0.5	500
Isolepis nodosa	Knobby Club Rush	150mm	1 x 0.5	300

BOTANIC NAME	COMMON NAME	INSTALLATION SIZE	MATURE SIZE (H x W) m	
FOOD GROWING AREA				
TREES				
Aloysia triphylla	Lemon Verbena	45L	3.0 x 3.0	
Citrus hystrix	Kaffir Lime	45L	3.0 x 3.0	
Dwarf citrus	Dwarf Lemon	45L	1.5 x 1.0	
Olea species	Fruiting Olive	45L	8.0 x 3.0	
Syzygium species	Lilly Pilly	45L	2.0 x 1.0	
SHRUBS & GROUNDCOVERS				SPACING (mm)
Brassica species	Kale	150mm	0.45 x 0.45	300
Helichrysum italicum	Curry Plant	200mm	0.8 x 0.5	400
Melissa officinalis	Lemon Balm	200mm	0.5 x 0.75	500
Ocimum basilicum	Basil	150mm	0.4 x 0.4	300
Origanum vulgare	Oregano	150mm	0.3 x 0.3	300
Rosmarinus officinalis	Rosemary	200L	1.5 x 1.5	400
Salvia elegans	Pineapple Sage	200mm	1.2 x 0.9	600
Salvia officinalis	Sage	150mm	0.3 x 0.3	400
Thymus	Thyme	150mm	0.4 x 0.4	400
Tropaeolum species	Nasturtium	150mm	0.3 x 0.8	400
Tulbaghia violaceae	Society Garlic	150mm	0.3 x 0.3	300

BOTANIC NAME	COMMON NAME	INSTALLATION SIZE	MATURE SIZE (H x W) m	
SENSORY GARDEN				
TREES				
Allocasuarina species	She-oak	75 Lt	8 x 4	
Lagerstroemia indica	Crepe Myrtle	200L	12 x 10	
Magnolia Little Gem	Magnolia	100 Lt	4 x 2.5	
Melaleuca species	Paperbark	75 Lt	10 x 6	
Syringa vulgaris	Lilac cultivar	45 Lt	3.0 x 3.0	
SHRUBS & GROUNDCOVERS				SPACING (mm)
Ajuga reptans	Bugle weed	150mm	0.3 x 0.6	300
Chrysocephalum apiculatum	Everlasting paper daisy	150mm	0.3 x 1.0	400
Cissus antarctica	Kangaroo vine	150mm	0.5 x 1.5	500
Cosmos species	Cosmos	150mm	0.8 x 0.5	300
Dimorphotheca pluvialis	African daisy	200mm	1.0 x 1.0	600
Gardenia species	Gardenia	200mm	1.5 x 0.8	700
Helichrysum species	Liquorice plant	200mm	0.8 x 1.0	400
Lavandula species	Lavander	25 lt	1.0 x 1.0	600
Leptospermum petersonii	Lemon scented Tea tree	200mm	4 x 2.5	1000
Limonium perezii	Statice	200mm	0.8 x 0.6	400
Melaleuca incana "Velvet Cushions"	Paperbark	200mm	0.5 x 0.5	400
Melissa officinalis	Lemon Balm	200mm	0.5 x 0.75	500
Pelargonium citrosum	Lemon scented geranium	200mm	0.8 x 1.0	600
Rosmarinus officinalis	Rosemary	200L	1.5 x 1.5	400
Salvia species	Sage	150mm	0.3 x 0.3	400
Sedum spectabilis	Stonecrop	200mm	0.6 x 0.6	300
Stachys byzantina	Lambs Ears	150mm	0.3 x 0.5	300
Thymus	Thyme	150mm	0.4 x 0.4	400
Tulbaghia violaceae	Society Garlic	150mm	0.3 x 0.3	300





01 SECTION 1-A
1:1000



01 SECTION 1-B
1:1000





02 SECTION 2 - A
1:1000



02 SECTION 2 - B
1:1000

