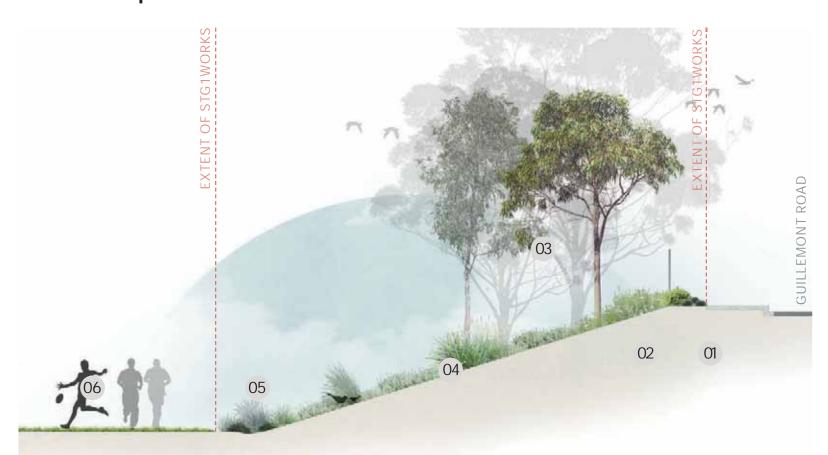




SCALE 1:1000 @ A3

Issue

Landscape Sections



SECTION A



SECTION B

St Francis Catholic College SSDA Issue **ARCADIA**



- Existing public road + footpath
- New boundary fencing to match existing Minimum1m from consolidated lot boundary with planting buffer
- Native tree planting to high section of embankment
- Proposed planting to embankment
- Planted swale to help capture + redirect water
- School Oval



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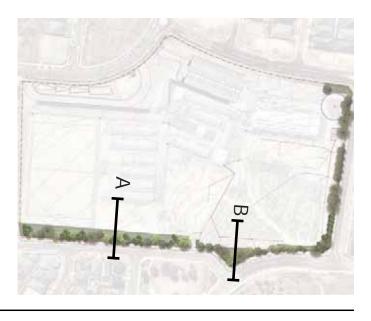
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Signed: NS

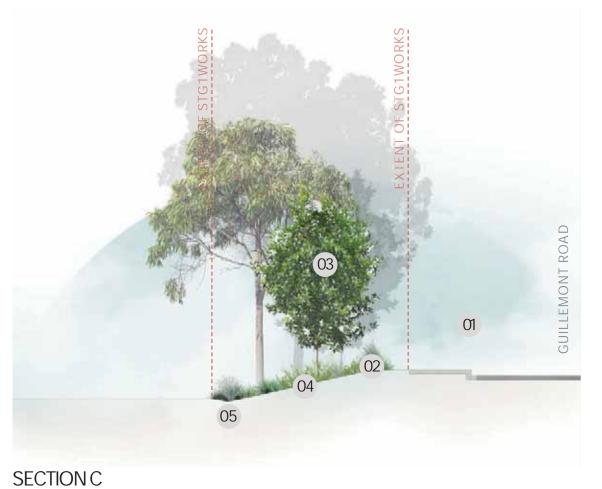
Granted on: 27 November 2020

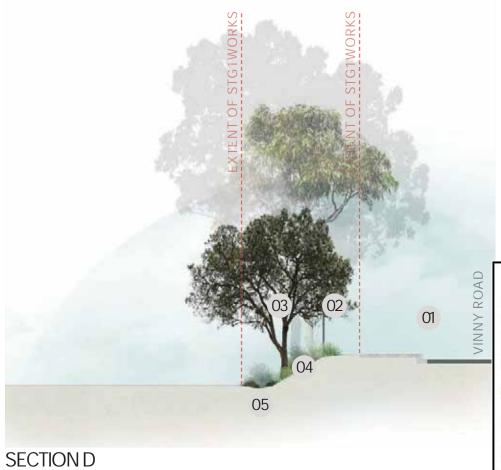
Sheet no: 5 of 31

KEY PLAN



Landscape Sections





LEGEND

- O1 Existing public road + footpath
- 02 Boundary fence with planting in front
- Native tree planting to high section of embankment
- O4 Proposed planting to embankment
- O5 Planted swale to help capture + redirect water



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Approved Application no: SSD-10365

Signed: NS

Granted on: 27 November 2020

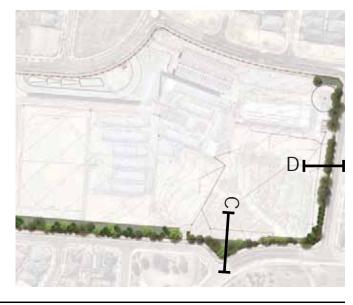
Sheet no: 6 of 31





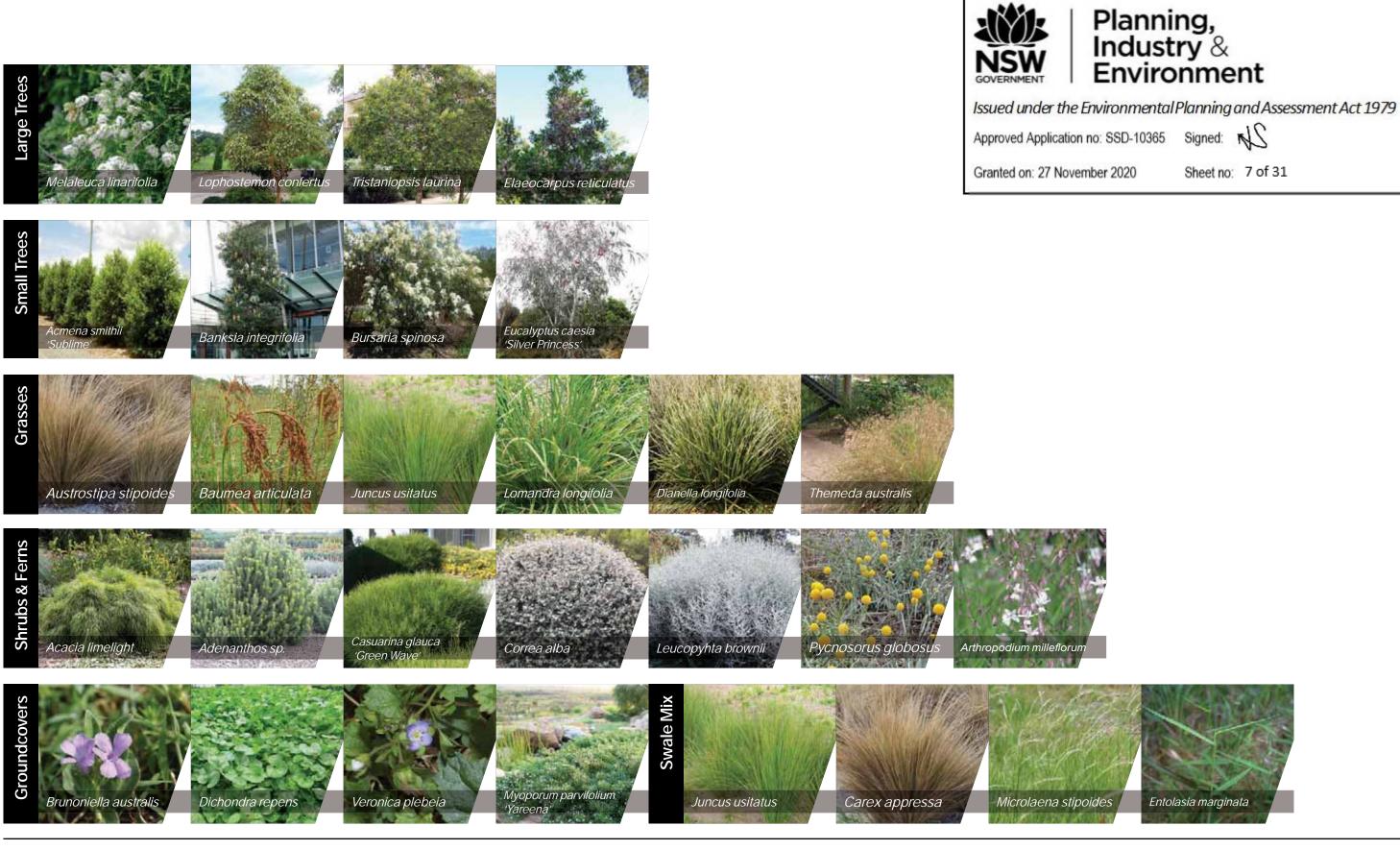


KEY PLAN



Issue

Planting Palette



Planting Schedule

19-648 ST FRANCIS CATHOLIC COLLEGE PLANT SCHEDULE_STAGE ONE

CODE	BOTANIC NAME	COMMON NAME	MATURE SIZE (h x w) (m)	PROPOSED POT SIZE	QUANTITY
	TREES & PALMS				
As	Acmena smithii 'Sublime'	Sublime Lilly Pilly	5 x 2-3	200LT	3
Bi	Banksia integrifolia	Coastal Banksia	6 x 1-2	200LT	10
Bs*	Bursaria spinosa	Sweet Bursaria	2.5 x 1.5-2	200LT	37
Er	Elaeocarpus reticulatus	Blueberry Ash	8-10 x 3-5	200LT	27
Ec	Eucalyptus caesia 'Silver Princess'	Silver Princess Gum	6-8 x 3-4	200LT	16
Lc	Lophostemon confertus	Brush Box	8-12 x 5-7	200LT	28
MI^	Melaleuca linarifolia	Snow in Summer	10 x 4	200LT	16
TI	Tristaniopsis laurina 'Luscious'	'Luscious' Water Gum	7-12 x 5	200LT	25
	SHRUBS & ACCENTS		<u> </u>		
Ap*	Acacia parramattensis	Parramatta Wattle	4 x 3	75LT	20
Αl	Acacia cognata 'Limelight'	River Wattle	0.5-1 x 1-1.2	300mm	79
Ase	Adenanthos sericeus	Woollybush	1-5 x 1-5	45LT	27
Cg	Casuarina glauca 'Green Wave'	Green Wave She-Oak	1-2 x 1-2	300mm	82
Ca	Correa alba var. Alba	White Correa	1-1.5 x 1-1.5	300mm	103
Lb	Leucophyta brownii	Cushion Bush	1-1.2 x 1-1.2	300mm	78
	GRASSES & GROUNDCOVER MATRIX				
Am^	Arthropodium milleflorum	Pale Vanilla Lily	1 x 0.3	150mm	1429
Av^	Aristida vagans	Speargrass	0.8 x 0.5	150mm	763
Pg	Pycnosorus globosus	Billy Buttons	0.3-1 x 0.2-0.5	200mm	1144
DI^	Dianella longifolia	Blue Flax Lily	0.8 x 0.5	150mm	1905
LI^	Lomandra longifolia	Spiny-Head Mat Rush	1.2 x 1	200mm	2856
Ta^	Themeda australis	Kangaroo Grass	1.5 x 0.5	150mm	2856
0a*	Oplismenus aemulus	Australian Basket Grass	0.3 x spreading	150mm	1429
	GROUNDCOVER MATRIX	I			
Ba^	Brunoniella australis	Blue Trumpet	0.20 x spreading	150mm	791
Dr^	Dichondra repens	Kidney Weed	0.05-0.15 x 2	140mm	450
Vp*	Veronica plebeia	Creeping speedwell	0.10 x 1	150mm	450
Pp*	Pratia purpurascens	White Root	0.15 x spreading	150mm	450
Мр	Myoporum parvifolium 'Yareena'	Yareena Creeping Boobialla	0.10 x 3	140mm	314
Λ o t	SWALE MATRIX	Driekly Cooper Cross	0.0.1,,0.0.1	1F0mama	240
Ast	Austrostipa stipoides	Prickly Spear Grass	0.8-1 x 0.8-1 1.5 x 1	150mm 150mm	348 348
Ba Em*	Baumea articulata	Jointed twig-rush Bordered Panic Grass	0.8 x 2	150mm 150mm	348 348
	Entolasia merginata Microlaena stipoides var. stipoides	Weeping Grass	*** ***	150mm	
Mss* Ju	Juncus usitatus	Common Rush	1 x 0.2 0.6 x 1	150mm	348 348
Ju	BIORETENTION MIX	Common Rush	U.O X I	HIIIIIOCI	340
Ba	Baumea articulata	Jointed twig-rush	1.5 x 1	150mm	143
Es	Eleocharis sphacelata	Tall Spike Rush	1.2 x spreading	150mm	198
Sv	Schoenoplectus validus	River Club-Rush	1.2 x spreading	150mm	214
Tm	Triglochin micro tuberosum	Water Ribbons	1.5 x 1	150mm	132

LEGEND

*Alluvial Woodland Species

^Shale Plain Woodland Species

All other species included are Australian Natives



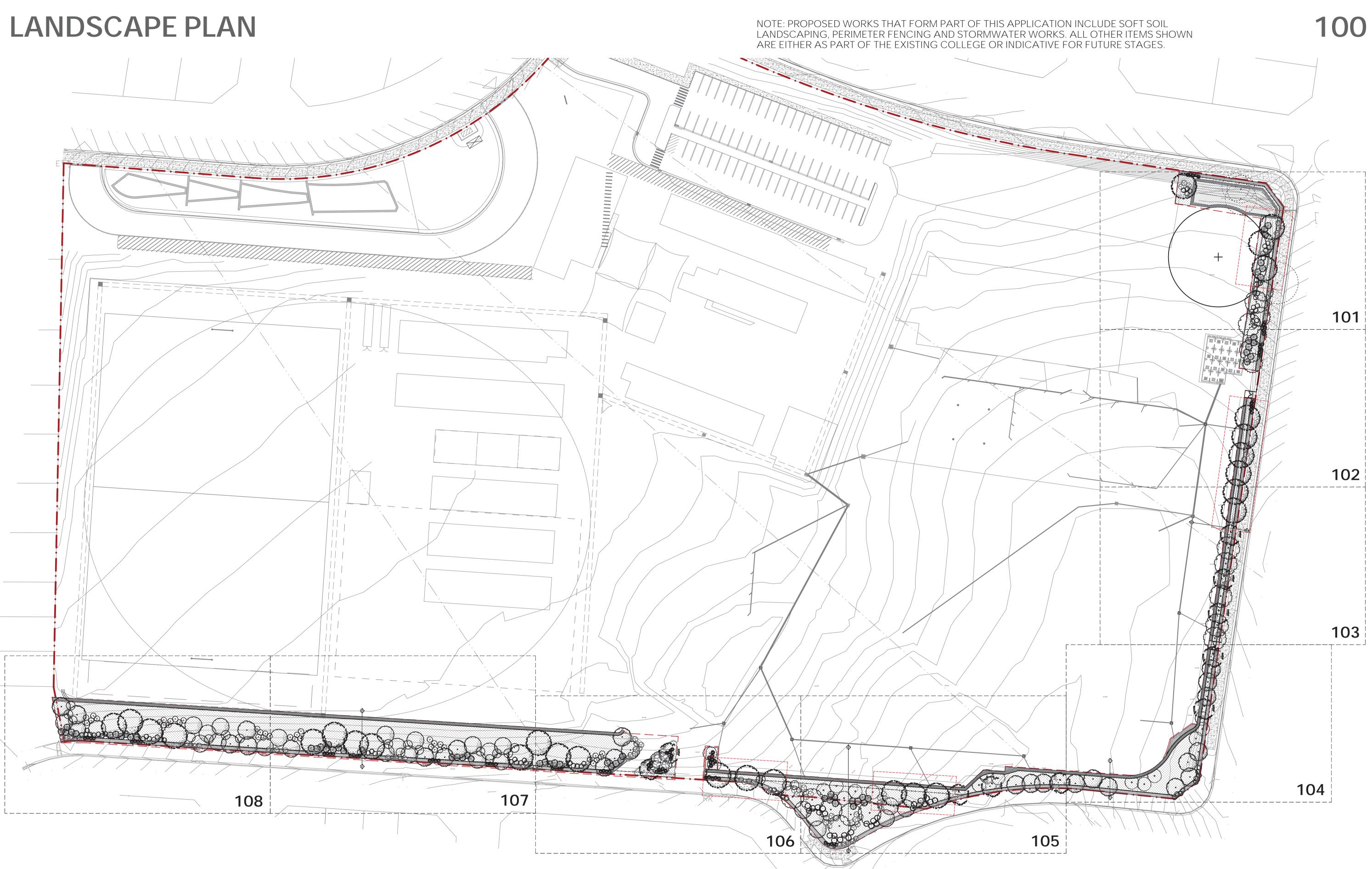
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Approved Application no: SSD-10365

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Granted on: 27 November 2020

Sheet no: 8 of 31





Planning, Industry & Environment

Granted on: 27 November 2020

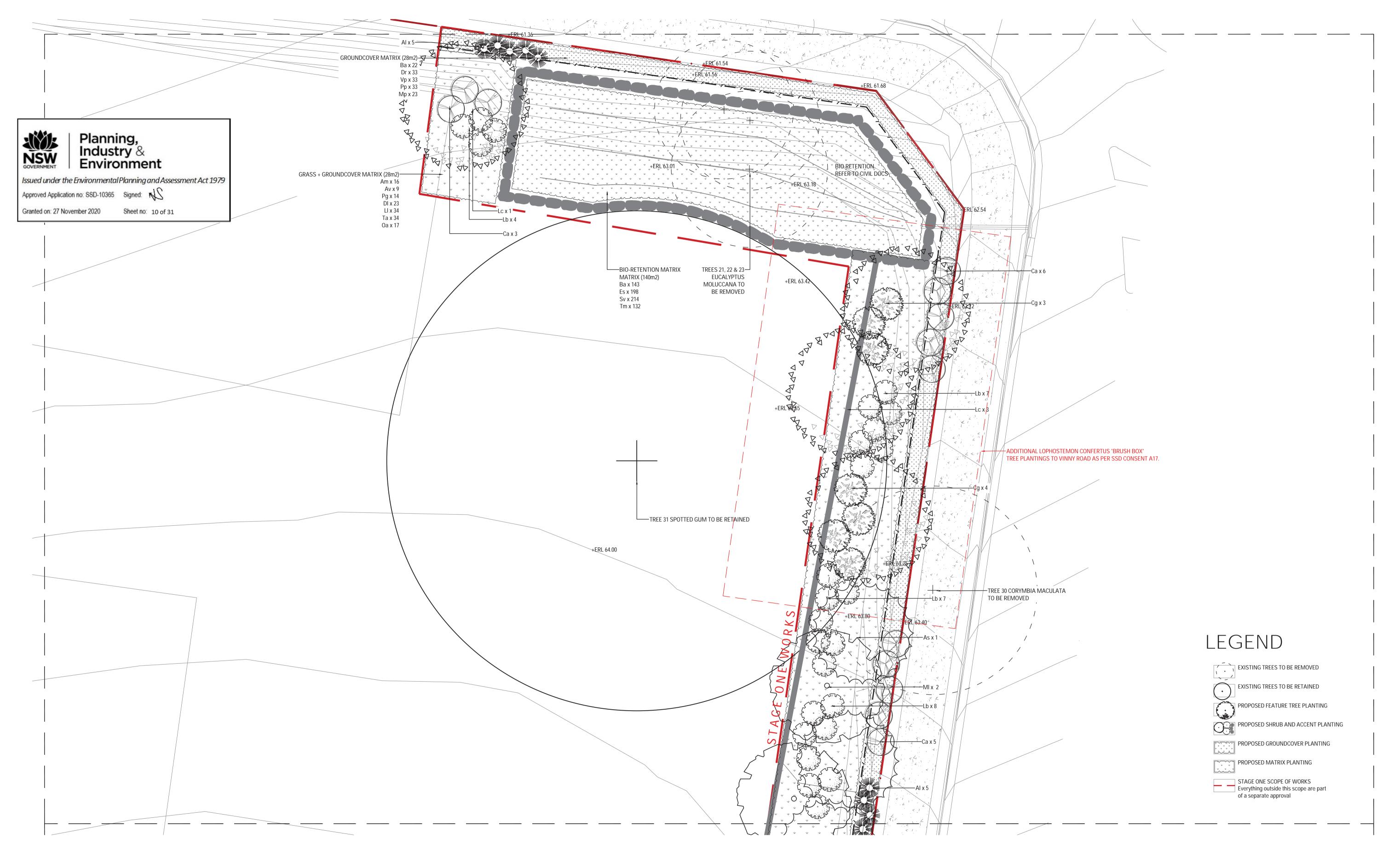
Issued under the Environmental Planning and Assessment Act 1979 Approved Application no: SSD-10365 Signed:

ST FRANCIS CATHOLIC COLLEGE SSDA Issue



PREPARED BY Arcadia Landscape Architecture
CLIENT St Francis Catholic College **ARCHITECT** JDH Architects

SCALE 1:100 @ A1



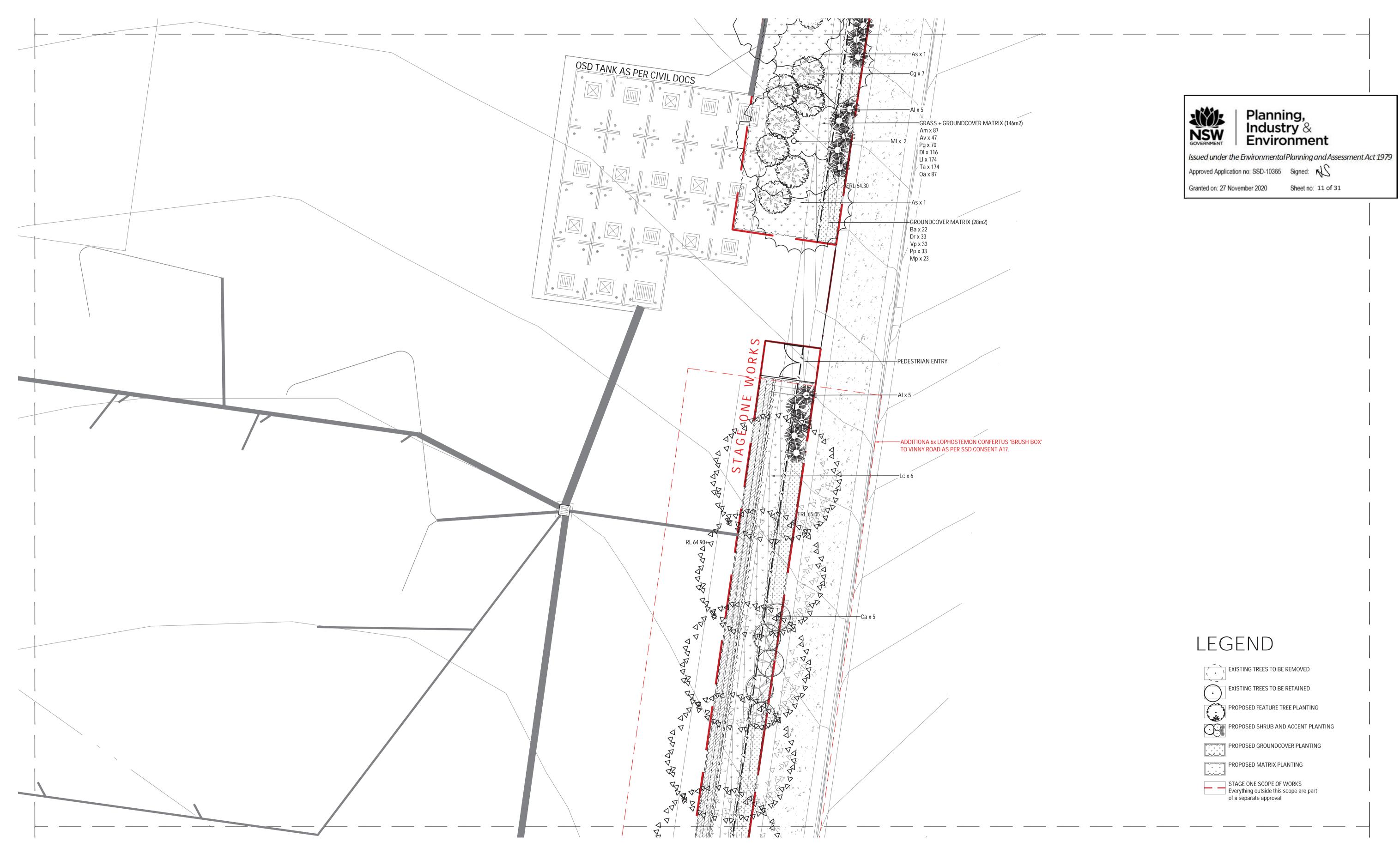


ST FRANCIS CATHOLIC COLLEGE SSDA Issue



PREPARED BY Arcadia Landscape Architecture St Francis Catholic College **ARCHITECT** JDH Architects

DATE 27.08.2020 **SCALE** 1:100 @ A1 ISSUE E





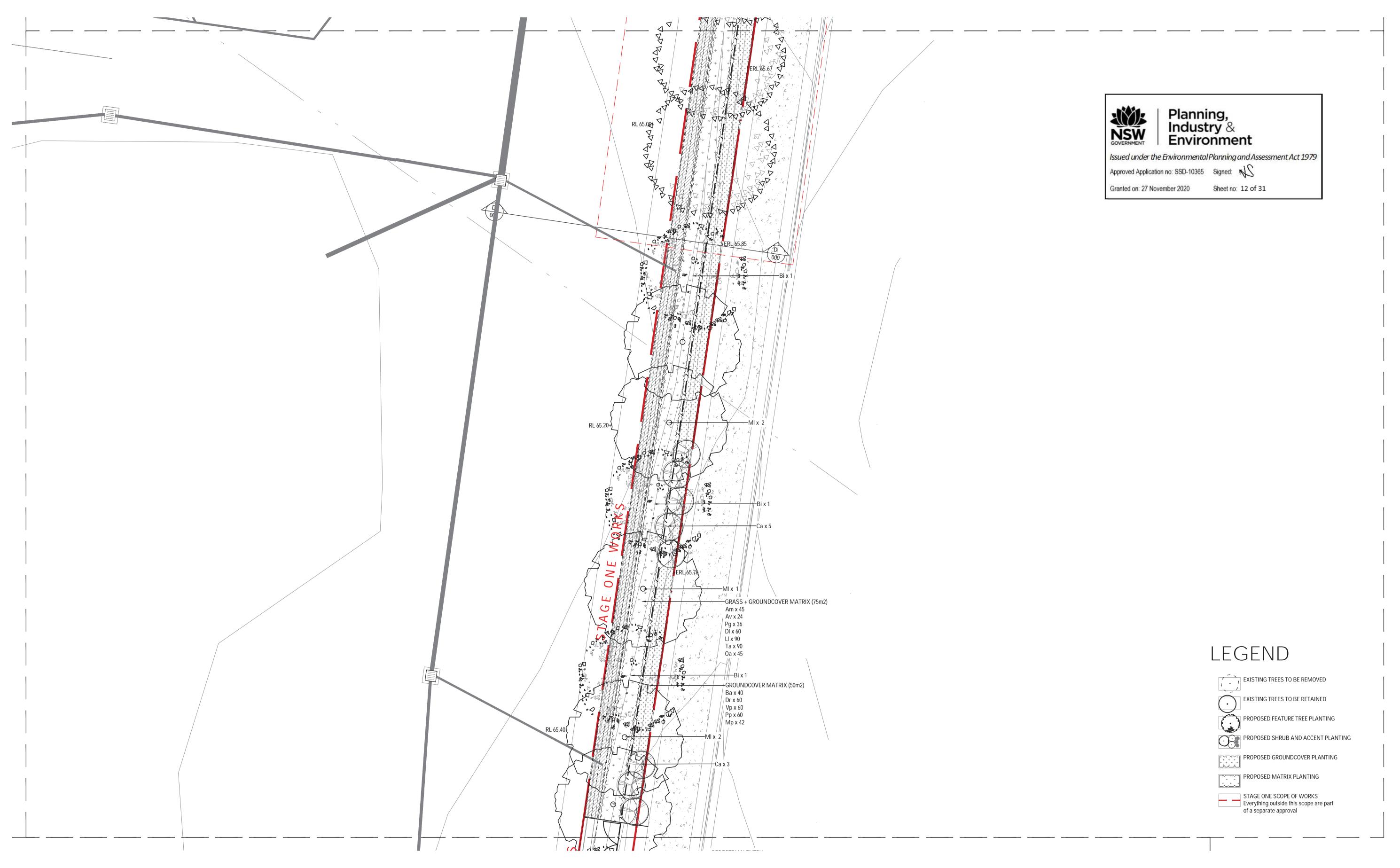
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ISSUE E

DATE 27.08.2020 **SCALE** 1:100 @ A1





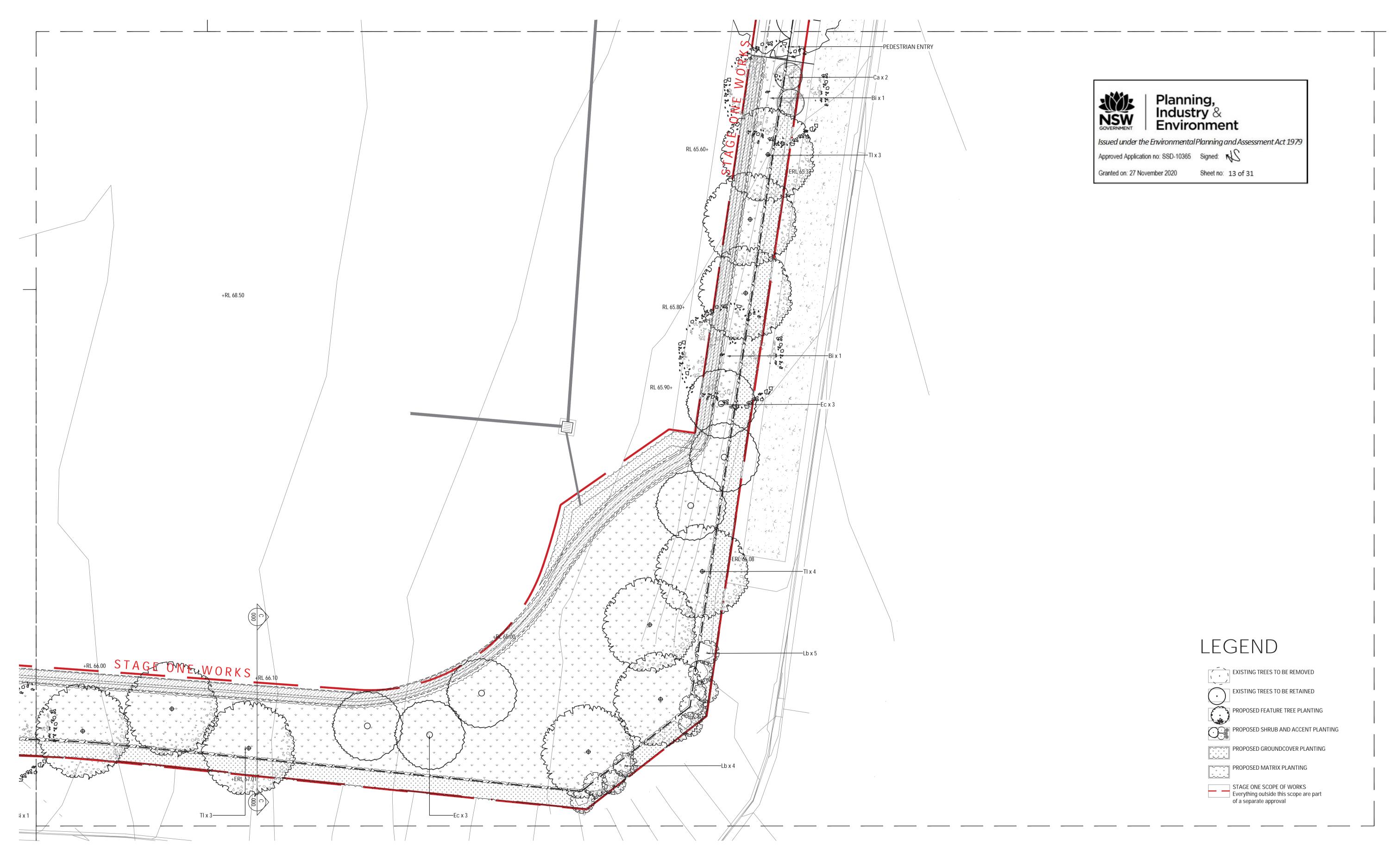
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ARCHITECT JDH Architects

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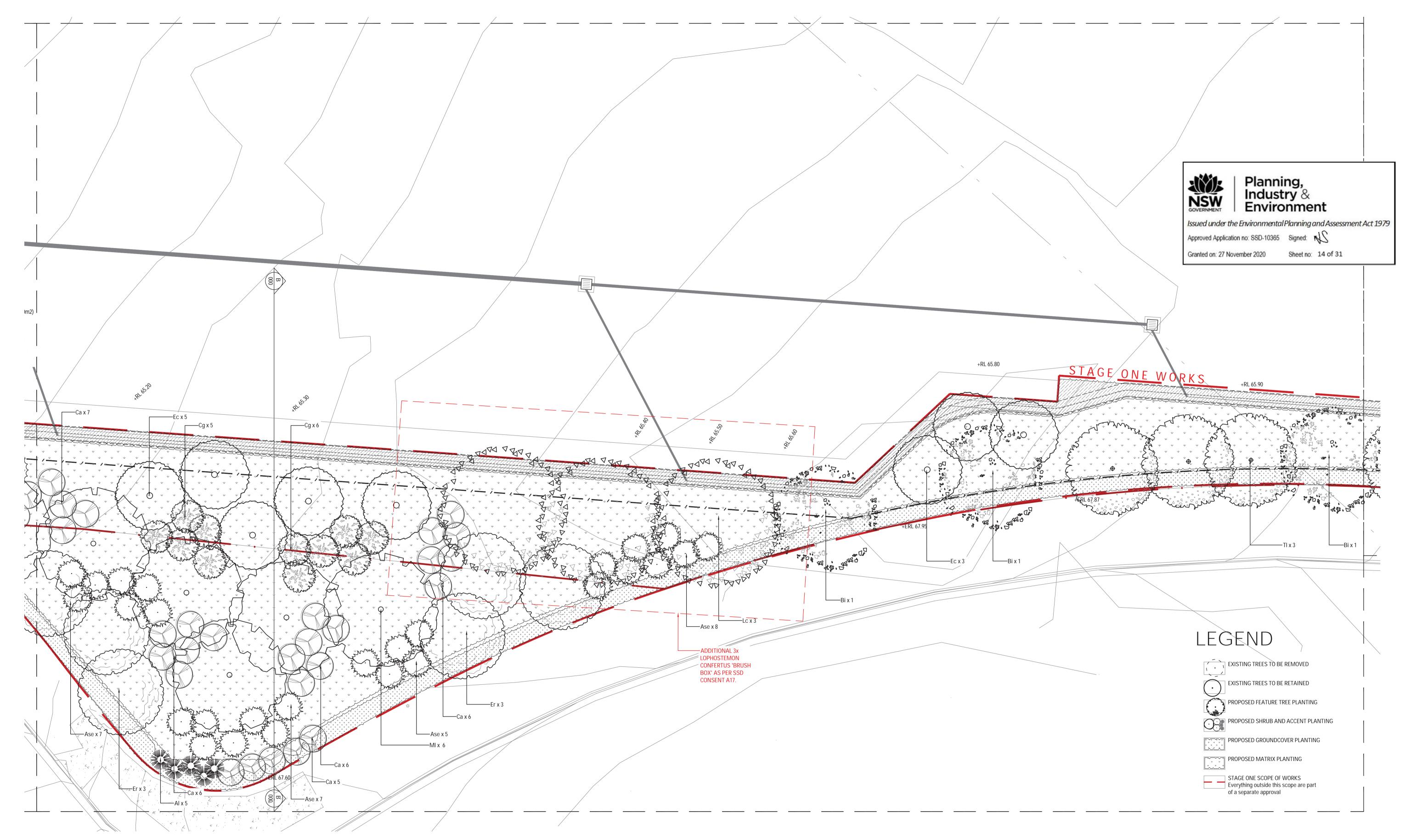


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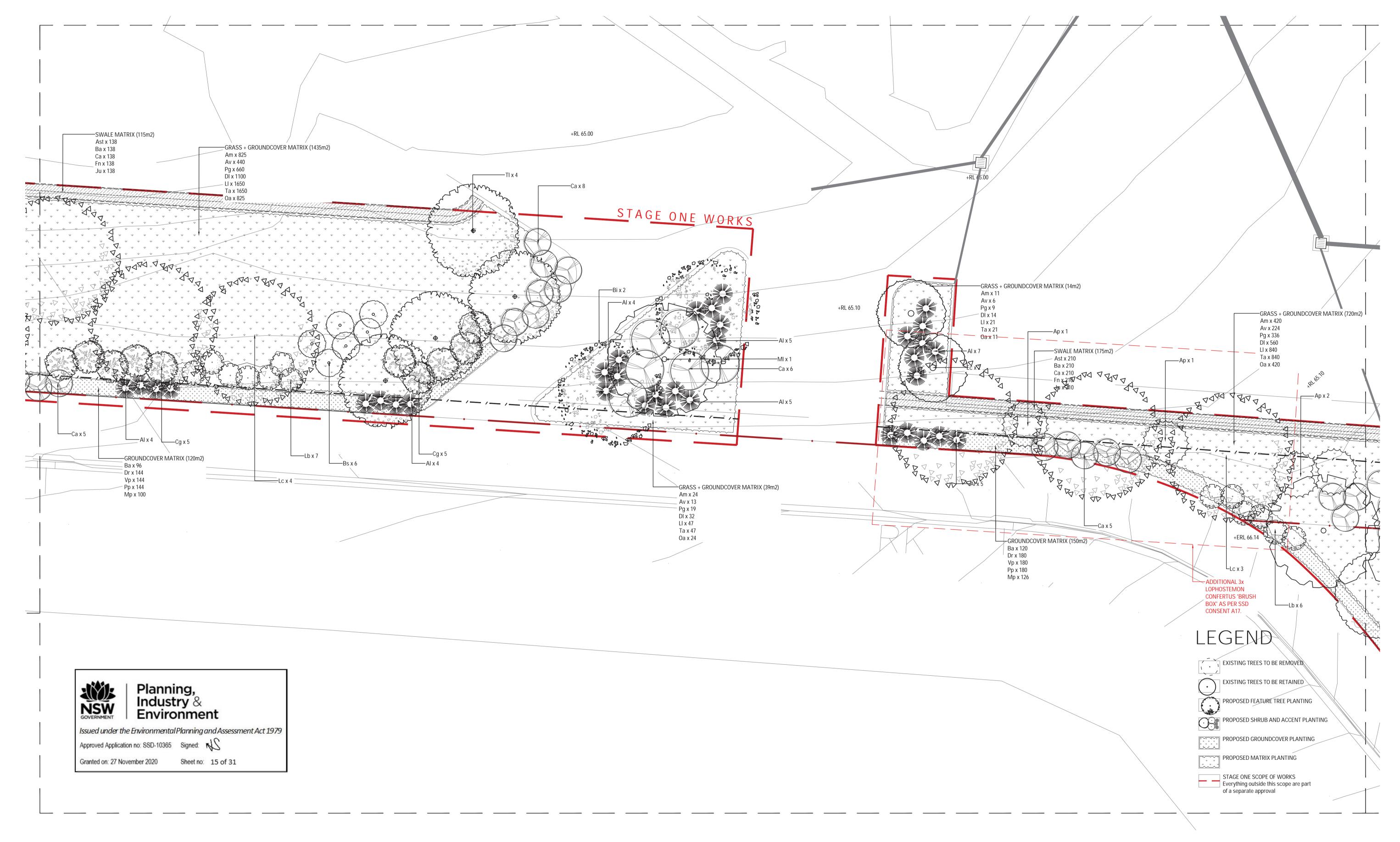


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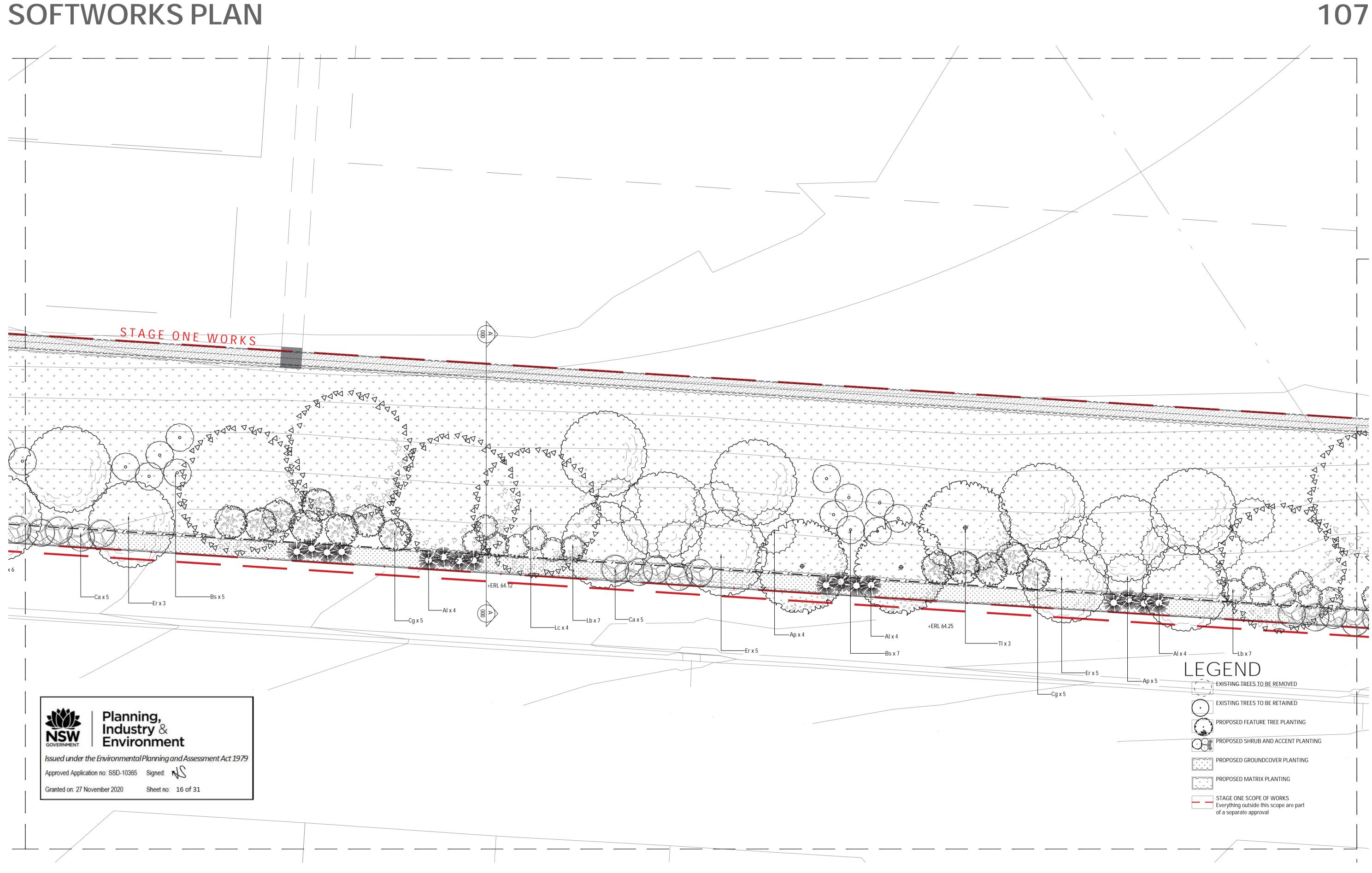






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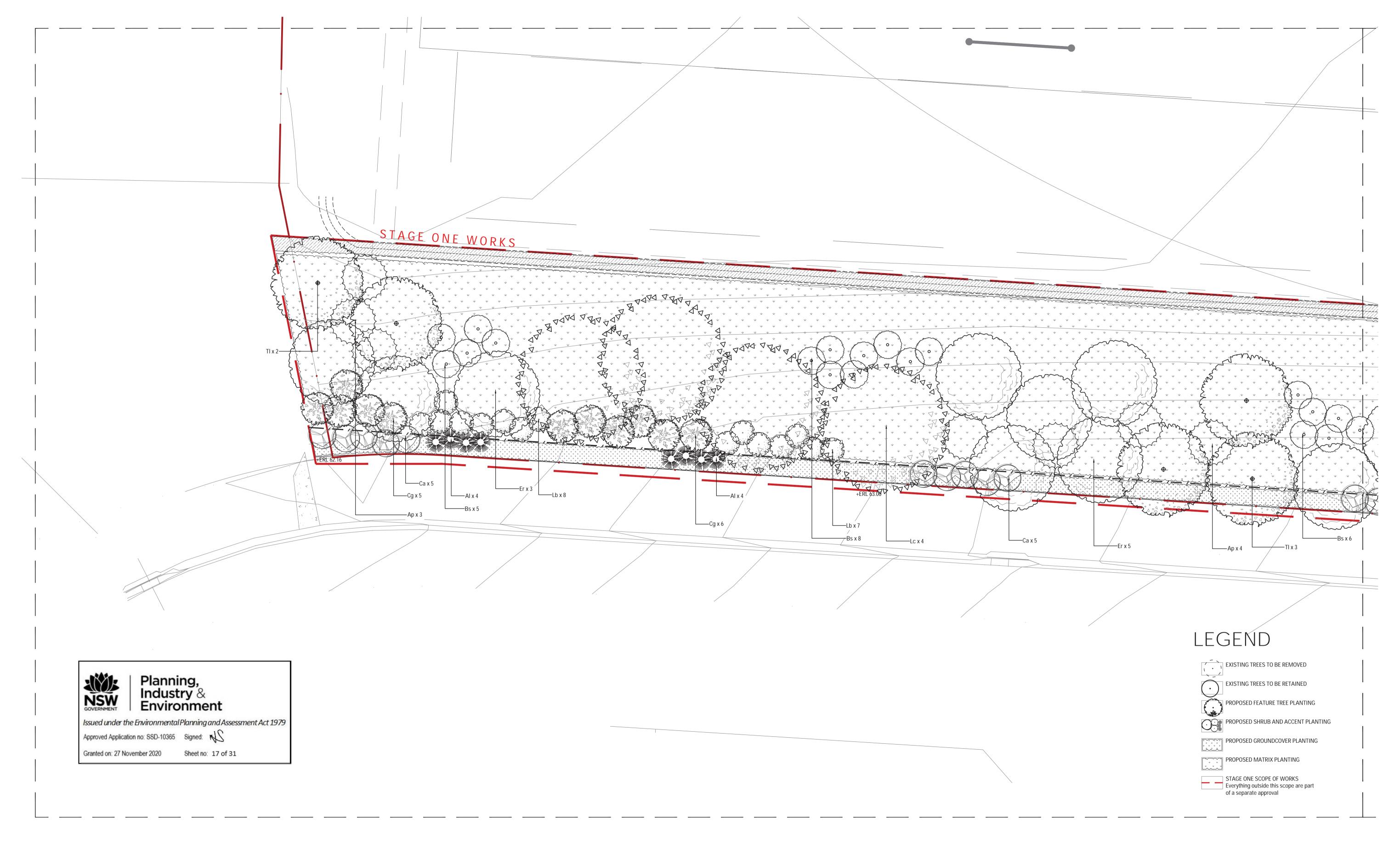


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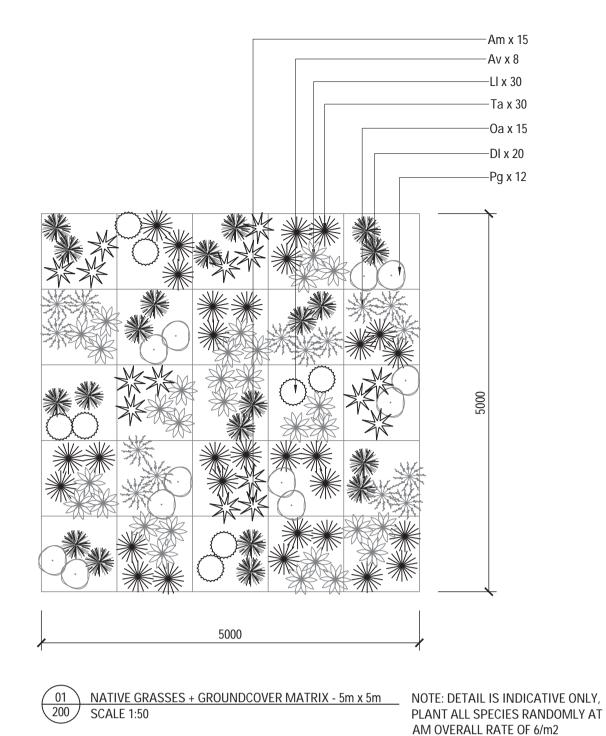


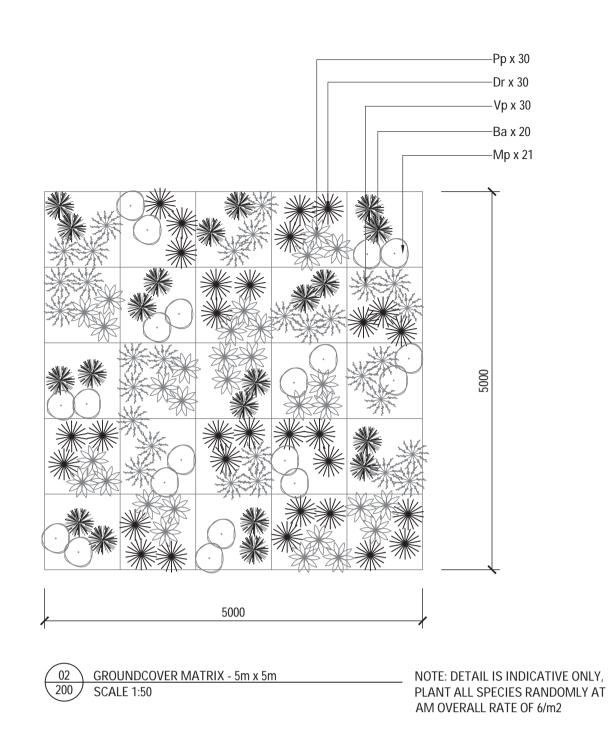
ARCHITECT JDH Architects

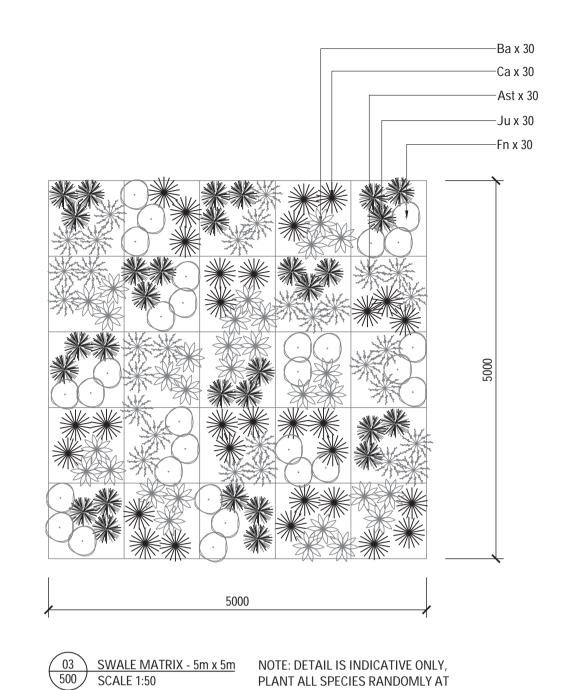
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CLIENT St Francis Catholic College

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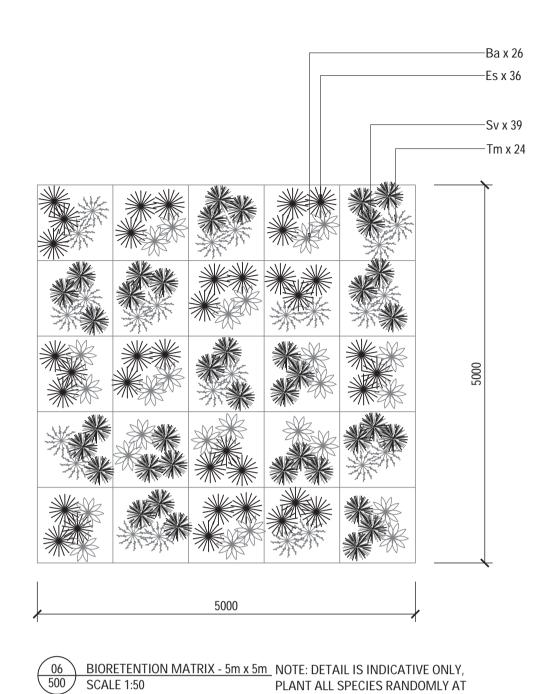
LANDSCAPE DETAILS





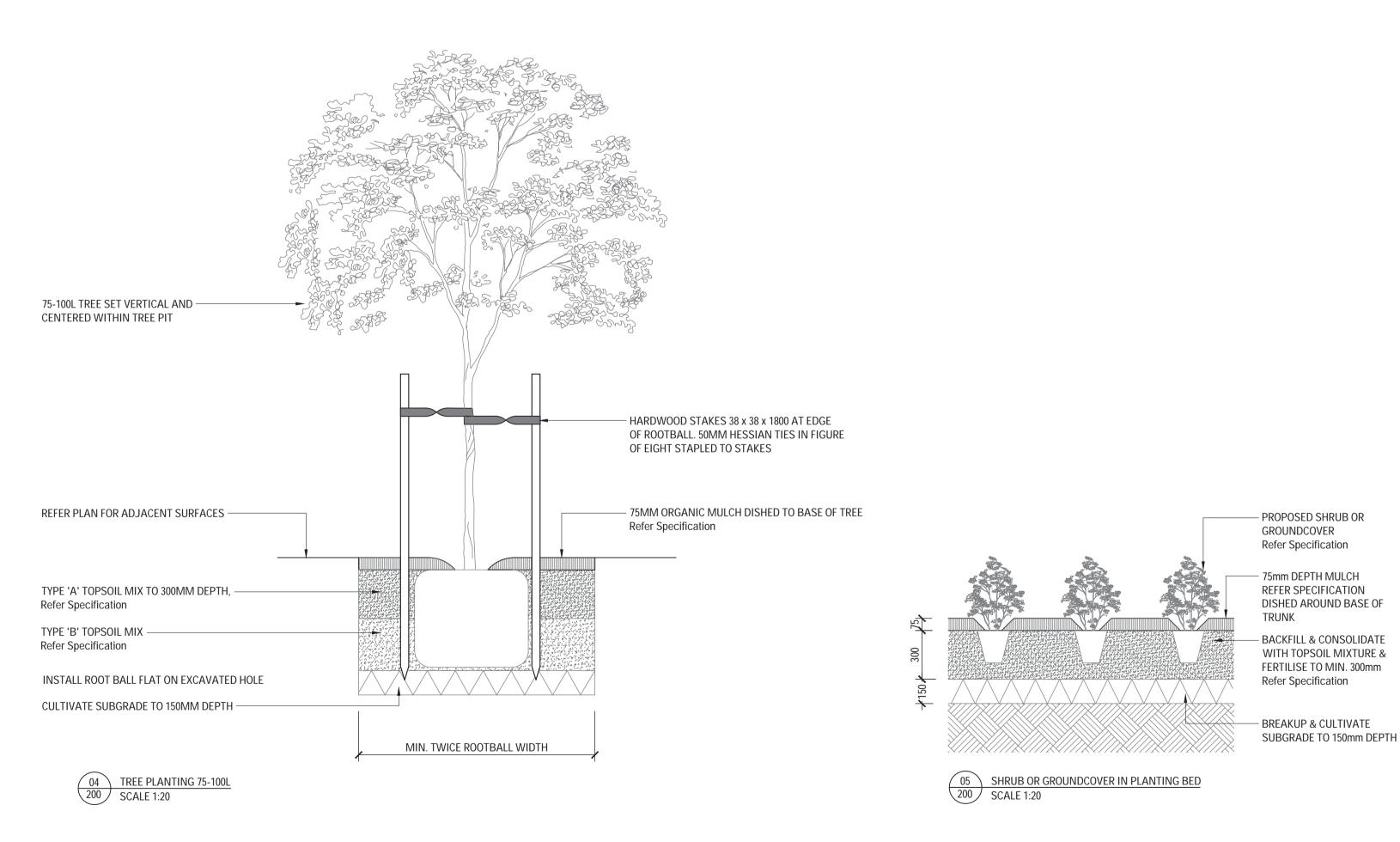


AM OVERALL RATE OF 6/m2



PLANT ALL SPECIES RANDOMLY AT

AM OVERALL RATE OF 6/m2







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ST. FRANCIS CATHOLIC COLLEGE





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130-160 JARDINE DRIVE, EDMONDSON PARK NSW INTERNAL CIVIL ENGINEERING WORKS



DA - LANDSCAPING WORKS

GENERAL NOTES:

- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH LIVERPOOL CITY COUNCIL'S SPECIFICATION. CONTRACTOR TO OBTAIN AND RETAIN A COPY ON SITE DURING THE
- GUARANTEE THE INFORMATION SHOWN NOR ACCEPT ANY RESPONSIBILITY FOR
- ADJUST EXISTING SERVICE COVERS TO SUIT NEW FINISHED LEVELS TO RELEVANT AUTHORITY REQUIREMENTS WHERE NECESSARY.
- REINSTATE AND STABILISE ALL DISTURBED LANDSCAPED AREAS
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE CONSTRUCTED PLACED AND MAINTAINED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS, REQUIREMENTS WHERE APPLICABLE.
- CONTRACTOR TO CHECK AND CONFIRM SITE DRAINAGE CONNECTIONS ACROSS THE VERGE PRIOR TO COMMENCEMENT OF SITE DRAINAGE WORKS.
- 10. PROPERTIES AFFECTED BY THE WORKS ARE TO BE NOTIFIED IN ADVANCE WHERE DISRUPTION TO EXISTING ACCESS IS LIKELY

EXISTING SERVICES & FEATURES

- THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL (IF REQUIRED) OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA OR AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY
- THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
- PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN APPROVAL OF HIS PROGRAM FOR THE RELOCATION/ CONSTRUCTION OF TEMPORARY SERVICES.
- CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN SUPPLY TO EXISTING BUILDING REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED, THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
- INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL. CONTRACTOR TO GAIN APPROVAL FROM THE SUPERINTENDENT FOR TIME OF INTERRUPTION.
- EXISTING SERVICES, BUILDINGS, EXTERNAL STRUCTURES AND TREES SHOWN ON THESE DRAWINGS ARE EXISTING FEATURES PRIOR TO ANY DEMOLITION WORKS.
- EXISTING SERVICES UNLESS SHOWN ON SURVEY PLAN HAVE BEEN PLOTTED FROM SERVICES SEARCH PLANS AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE A 'DIAL BEFORE YOU DIG' SEARCH AND TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE
- ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN Ø80 uPVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND EDGE OF PAVING.

SUBGRADE PREPARATION

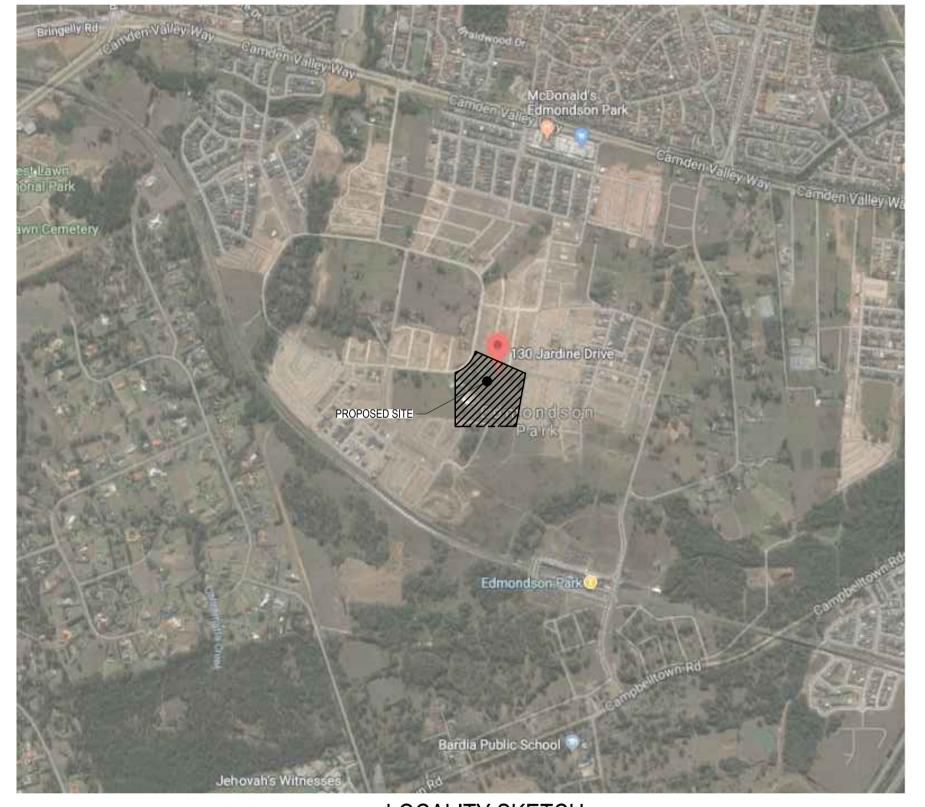
- IMPORTED FILL SHOULD BE OF GOOD QUALITY MATERIAL SUCH AS
- EARTHWORKS SHOULD BE CLOSELY MONITORED BY A GEOTECHNICAL CONSULTANT AND SHOULD INCLUDE FIELD DENSITY TESTING OF A FILL AT AN APPROPRIATE FREQUENCY AND LEVEL OF SUPERVISION AS DETAILED IN AS3798 - 2007 (REFERENCED 9). FILL PLACED AND COMPACTED IN ACCORDANCE WITH AS3798 MAY BE CLASSIFIED AS "CONTROLLED" FILL.

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY THE SURVEYOR SPECIFIED IN THE TITLE

THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. HENRY AND HYMAS PTY. LTD. DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION

BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT HENRY AND HYMAS PTY. LTD. THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM ORIGINAL SURVEY DOCUMENTS.



LOCALITY SKETCH

	DRAWING SCHEDULE
18E34_D3_C000	COVER SHEET, DRAWING SCHEDULE, NOTES AND LOCALITY SKETCH
18E34_D3_C100	OVERALL SITE PLAN
18E34_D3_C101	SITE DETAIL PLAN - SHEET 1 OF 2
18E34_D3_C102	SITE DETAIL PLAN - SHEET 2 OF 2
18E34_D3_C200	STORMWATER MISCELLANEOUS DETAILS AND PIT LID SCHEDULE
18E34_D3_C201	OSD PLAN AND SECTIONS
18E34_D3_C202	OSD SECTIONS AND DETAILS
18E34_D3_C203	OSD CALCULATIONS AND MUSIC MODELLING RESULTS
18E34_D3_C250	STORMWATER CATCHMENT PLAN
18E34_D3_SE01	SEDIMENT AND EROSION CONTROL PLAN
18E34_D3_SE02	SEDIMENT AND EROSION CONTROL DETAILS

SUBSOIL DRAINAGE NOTES

- GENERAL PROVIDE SUBSOIL DRAINS TO INTERCEPT GROUNDWATER SEEPAGE AND PREVENT WATER BUILD-UP BEHIND WALLS AND UNDER FLOORS AND DRAINAGE SYSTEM AS APPLICABLE.
- PROVIDE THE FOLLOWING MINIMUM CLEAR DEPTH, MEASURED TO THE CROWN
- 100mm BELOW FORMATION LEVEL OF THE PAVEMENT, KERB OR CHANNEL
- AT JUNCTIONS OF SUBSOIL PIPES PROVIDE TEES, COUPLINGS OR
- 4. TRENCH WIDTH MINIMUM 300mm

FLANGES FROM BEARING ON THE TRENCH BOTTOM OR UNDERLAY

PIPE SURROUNDS:

EACH JOINT.

GENERAL: PLACE THE MATERIAL IN THE PIPE SURROUND IN LAYERS SMALLER THAN OR EQUAL TO 200mm LOOSE THICKNESS, AND COMPACT WITHOUT DAMAGING OR DISPLACING PIPING

FILTER SOCKS PROVIDE POLYESTER PERMEABLE SOCKS CAPABLE OF

DEPTH OF OVERLAY: TO THE UNDERSIDE OF THE BASE OF OVERLYING STRUCTURES SUCH AS PAVEMENTS, SLABS AND CHANNELS. TO WITHIN 150mm OF THE FINISHED SURFACE OF UNPAVED OR LANDSCAPED AREAS.

RETAINING PARTICLES OF 0.25mm SIZES. SECURELY FIT OF JOIN THE SOCK AT

SITEWORKS NOTES

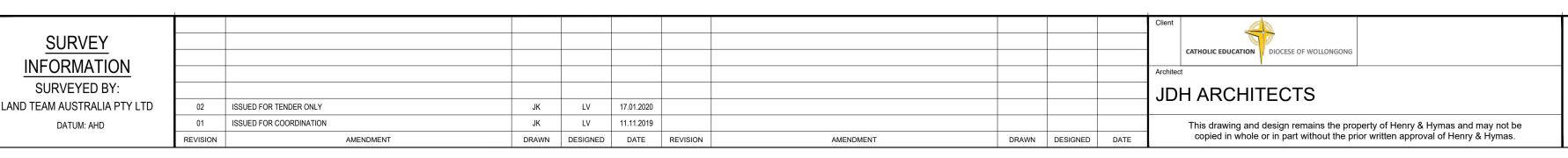
- ORIGIN OF LEVELS: REFER TO BENCH OR STATE SURVEY MARKS WHERE
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO THE COMMENCEMENT OF WORK.
- ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN

- THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT
- CONTRACTOR TO OBTAIN AUTHORITY APPROVALS WHERE APPLICABLE.
- MAKE SMOOTH TRANSITION TO EXISTING SURFACES AND MAKE GOOD.
- THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED LANDSCAPE ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND **SPECIFICATIONS** OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED RELATING
- TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MINIMUM OF 50mm IN BITUMINOUS PAVING.

TO DEVELOPMENT AT THE SITE.

- ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN Ø80 uPVC SEWER GRADE CONDUITS EXTENDING A MINIMUM OF 500mm BEYOND EDGE OF PAVING.
- GRADES TO PAVEMENTS TO BE AS IMPLIED BY RL'S ON PLAN . GRADE EVENLY BETWEEN NOMINATED RL'S. AREAS EXHIBITING PONDING GREATER THAN 5mm DEPTH WILL NOT BE ACCEPTED UNLESS IN A DESIGNATED SAG POINT.
- ALL COVERS AND GRATES ETC TO EXISTING SERVICE UTILITIES ARE TO BE ADJUSTED TO SUIT NEW FINISHED SURFACE LEVELS WHERE APPLICABLE.

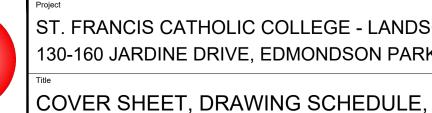
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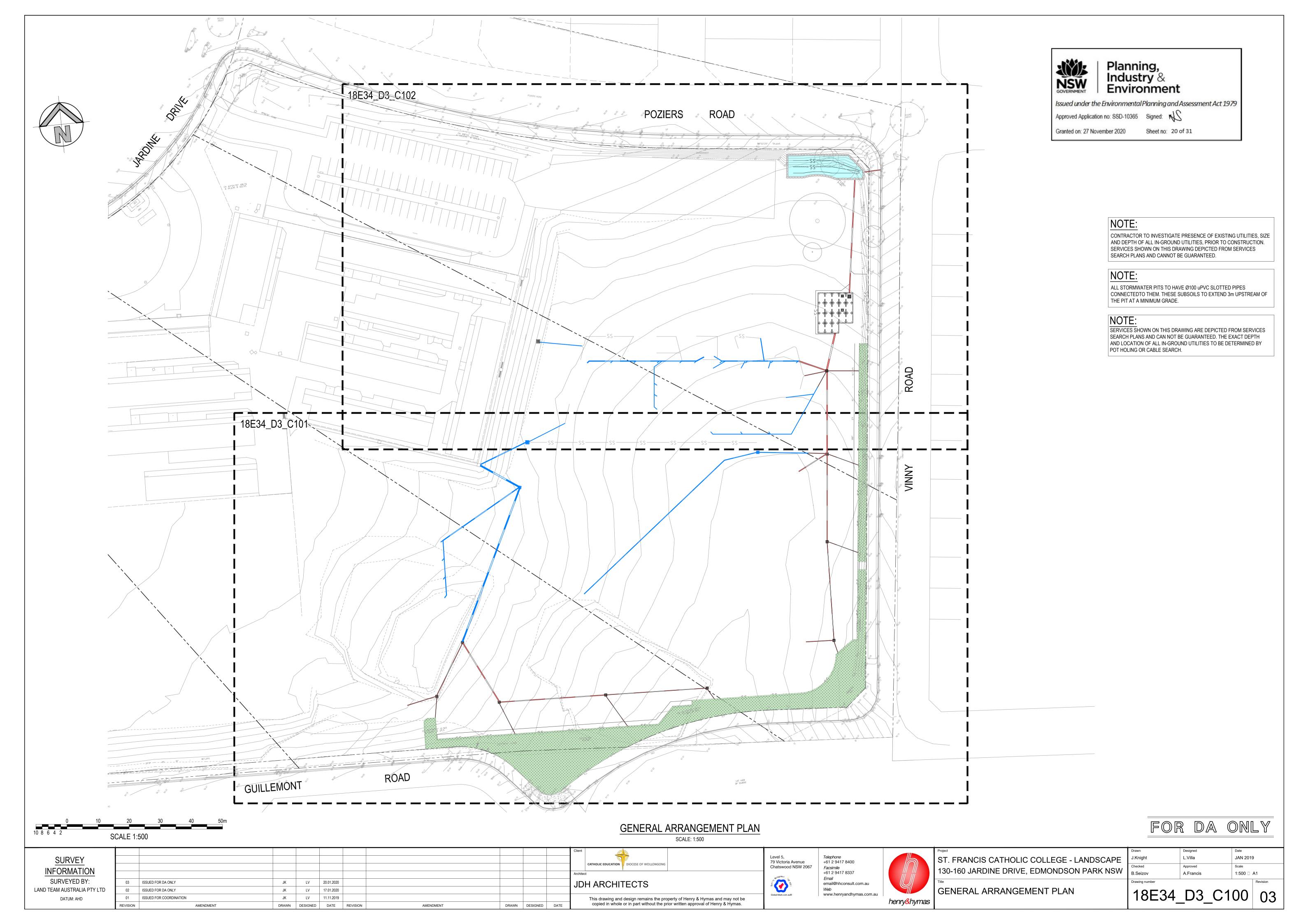


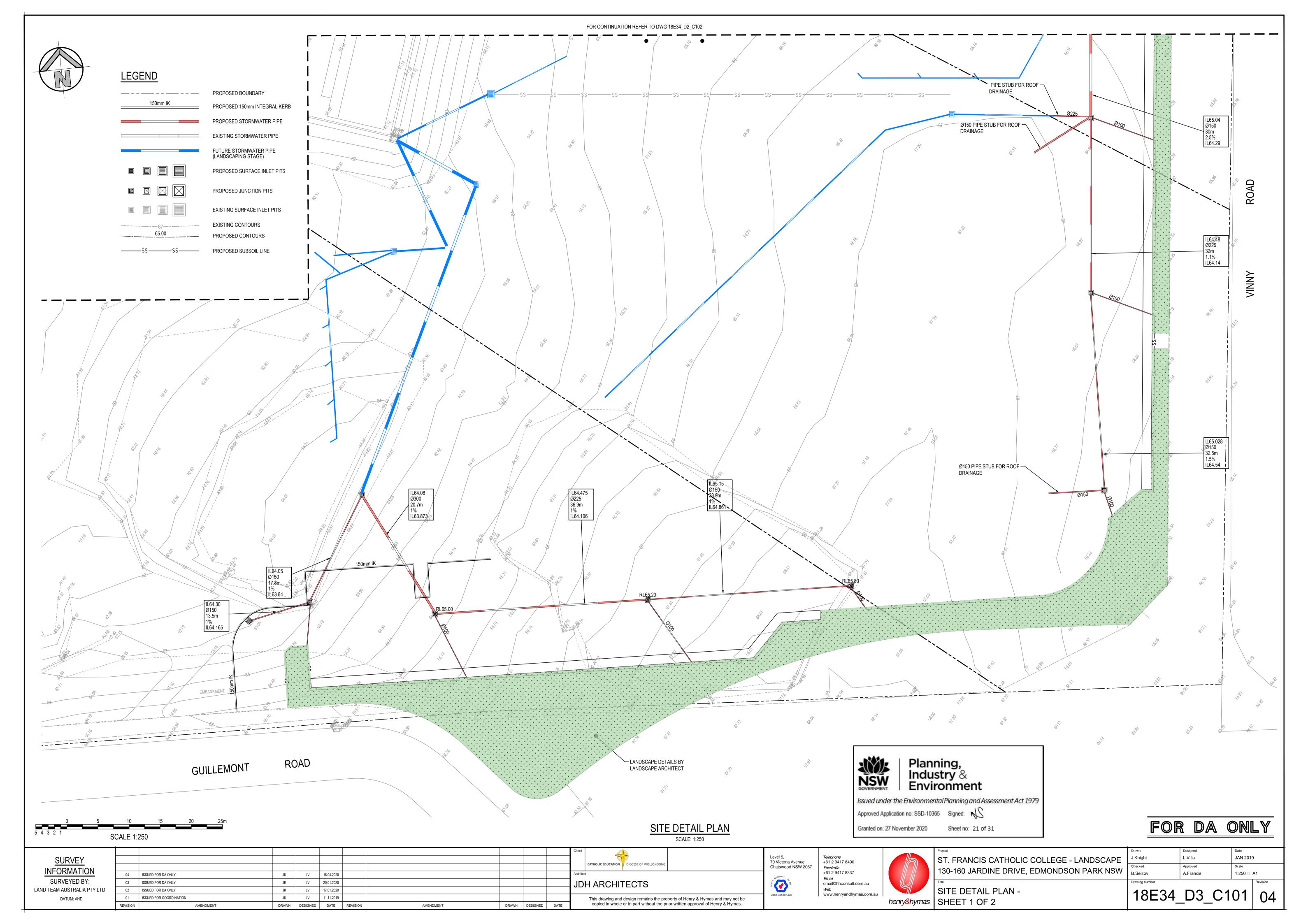
NOTES AND LOCALITY SKETCH

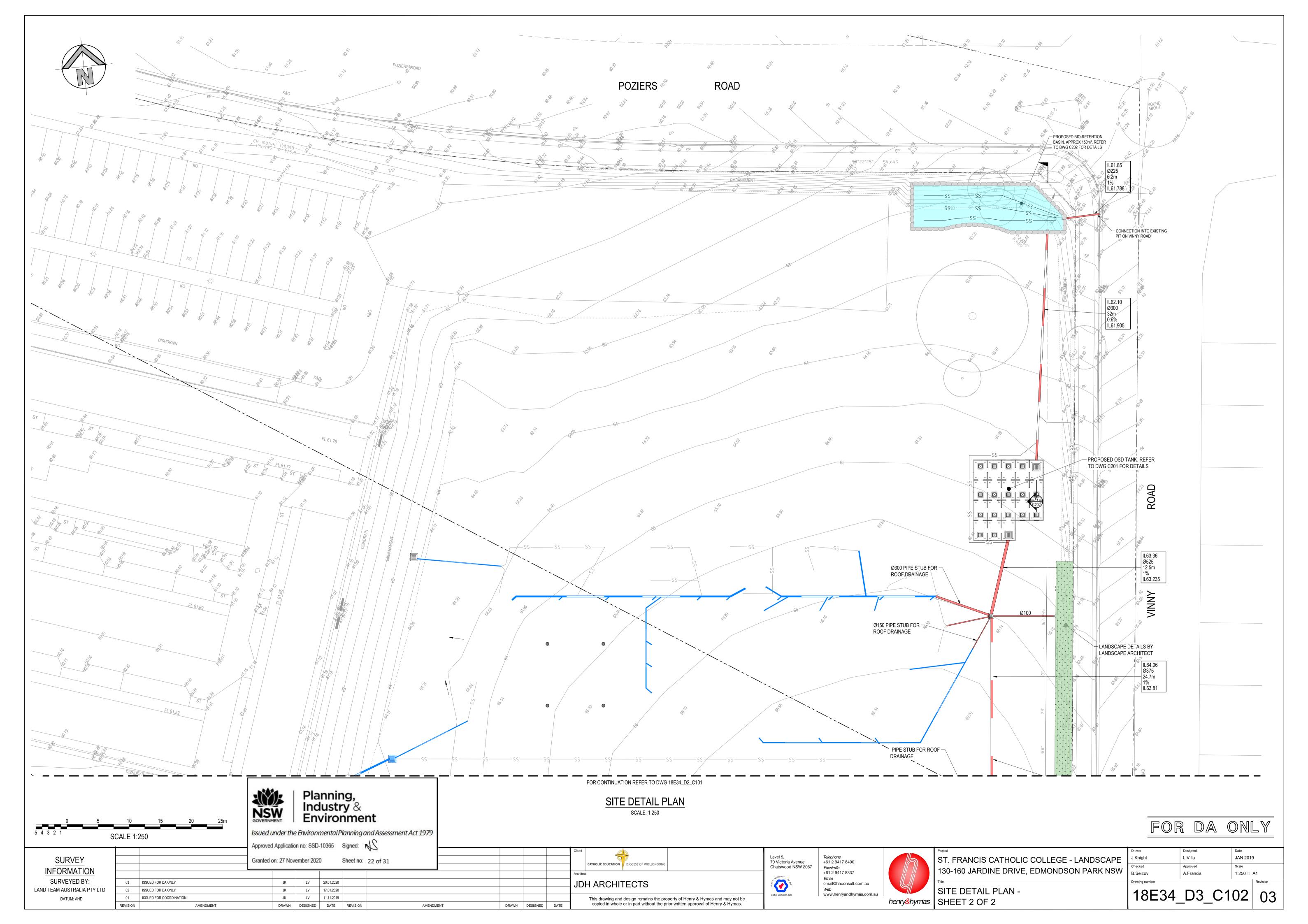
ST. FRANCIS CATHOLIC COLLEGE - LANDSCAPE 130-160 JARDINE DRIVE, EDMONDSON PARK NSW

L.Villa JAN 2019 A.Francis NTS

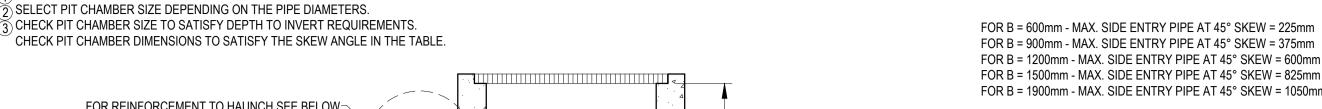
18E34 D3 C000 02







TYPICAL PIT CHAMBER SIZES IT IS THE CONTRACTORS RESPONSIBILITY TO SELECT PIT CHAMBER SIZE WITH REGARDS TO PIPE SIZE, DEPTH TO INVERT AND SKEW ANGLE. REFER SKETCHES BELOW. 1 SELECT PIT CHAMBER USING THE STEPS BELOW:

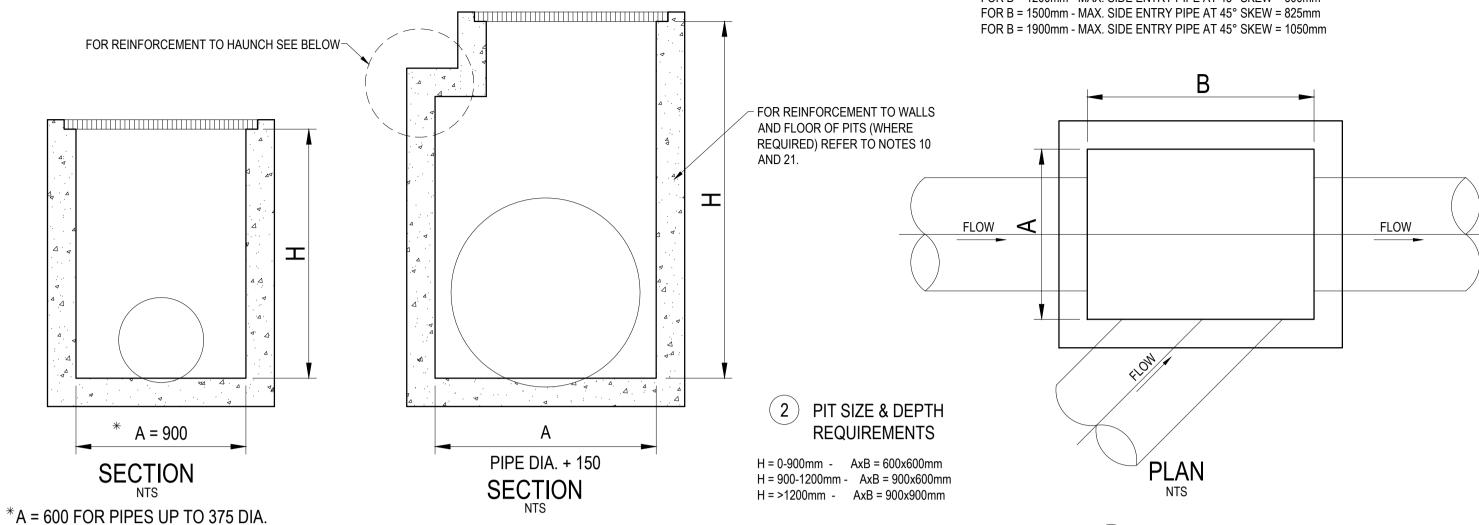


(1) PIT CHAMBER FOR PIPES

GREATER THAN 600 DIA.

(1) PIT CHAMBER DIMENSIONS

FOR PIPES UP TO 600 DIA.



(3) PIT CHAMBER FOR

SIDE ENTRY ON SKEW

300 MIN. S = 0.2D & A = 0.3m	DESIGN PAVEMENT	300 MIN. 300 TRENCH WIDTH	H = O.D.+600 100mm MIN. THICK TOP SOIL
COMPACTED TO 100% SMDD IN 2x150mm(MAX.) LAYERS COMPACTED TO 98% SMDD IN 150mm (MAX.) LAYERS	ORDINARY FILL FREE FROM CLAY LUMPS EXCEEDING 75mm, STONES EXCEEDING 25mm AND CONTAMINATE MATERIALS COMPACTE	D TO 98% SMDD D TO 98% SMDD AX.) LAYERS	ORDINARY FILL FREE FROM CLAY LUMPS EXCEEDING 75mm, STONES EXCEEDING 25mm AND CONTAMINATE MATERIALS
COMPACTED TO 95% SMDD IN 250mm (MAX.) LAYERS HAUNCH ZONE BED ZONE	GRADING COMM(No. 10 250mm(No. 1	ED TO 95% SMDD MAX.) LAYERS HAUNCH ZONE BED ZONE	100Ø A.G. PIPE 3m IN LENGTH DRAINING IN DIRECTION OF FALL OF PIPE TO DOWNSTREAM PIT. PIPE TO BE WRAPPED IN GEOFABRIC COMPACTED NON COHESIVE BACKFILL =1/3 O.D.
PIPE TRENCH INSTALL BENEATH PAVEMEN (HS SUPPORT TO BE USED UNDER I SCALE 1:20	TYPICAL SUPPORT FOR TRENCHES UNDER ROADWAY	PIPE TRENCH I IN LANDSCA (H1 & H2 SU SCALE	PE AREAS JPPORT)

R20 GALV. STEEL M.S.

@ 300 CTRS

220

SECTION

DRAWN DESIGNED DATE REVISION

300

TYPICAL STEP IRON DETAIL

ELEVATION

TABLE 1								
SIEVE SIZE (MM)	WEIGHT PASISNG (%)							
75.0	100							
9.5	100 TO 50							
2.36	100 TO 30							
0.60	50 TO 15							
0.075	25 TO 0							

TABLE 2								
SIEVE SIZE (MM)	WEIGHT PASISNG (%)							
19.0	100							
2.36	100 TO 50							
0.60	90 TO 20							
0.30	60 TO 10							
0.15	25 TO 0							
0.075	10 TO 0							

TABLE 3											
SUPPORT TYPE	BED ZONE X	HAUNCH ZONE Y	BED AND HAUNCH ZONES COMPACTION	MAX BEDDING FACTOR							
HS1		0.1D	50	2.0							
HS2	100 IF D<=1500, OR 150 IF D>=1500	0.3D	60	2.5							
HS3	.55 5 . 1000	0.3D	70	4.0							

DRAINAGE NOTES:

1. ALL STORMWATER WORK TO COMPLY WITH AS 3500 PART 3.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE MINIMUM COVER OF 600mm ON ALL PIPES.

3. PROTECTION OF PIPES DUE TO LOADS EXCEEDING W7 WHEEL LOAD SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

4. BEDDING TYPE SHALL BE TYPE H2 FOR RCP. WHERE NECESSARY THE OVERLAY ZONE SHALL BE REDUCED TO ACCOMMODATE PAVEMENT REQUIREMENTS. REFER TO THIS DRAWING FOR DETAILS.

5. MINIMUM COVER OVER EXISTING PIPES FOR PROTECTION DURING CONSTRUCTION SHALL BE 800mm.

6. NO CONSTRUCTION LOADS SHALL BE APPLIED TO PLASTIC PIPES.

7. FINISHED SURFACE LEVELS SHOWN ON LAYOUT PLAN DRGS TAKE PRECEDENCE OVER DESIGN DRAINAGE SURFACE LEVELS.

8. ALL PIPES UP TO AND INCLUDING 300 DIA. SHALL BE SOLVENT OR RUBBER RING JOINTED PVC CLASS SH PIPE TO AS1260. ALL OTHER PIPES TO BE RCP USING CLASS 2 RUBBER RING JOINTED PIPE. HARDIES FRC PIPE MAY BE USED IN LIEU OF RCP IF DESIRED IN GROUND. ALL AERIAL PIPES TO BE PVC CLASS SH.

9. ALL PITS IN NON TRAFFICABLE AREAS TO BE PREFABRICATED POLYESTER CONCRETE "POLYCRETE" WITH "LIGHT DUTY" CLASS B GALV. MILD STEEL GRATING AND FRAME.

ALL PITS IN TRAFFICABLE AREAS (CLASS "D" LOADING MAX) TO HAVE 150mm THICK CONCRETE WALLS AND BASE CAST IN-SITU fc=32 MPa, REINFORCED WITH N12-200 BOTH LOADING WAYS CENTRALLY PLACE .U.N.O. ON SEPARATE DESIGN DRAWINGS IN THIS SET. GALV.MILD STEEL GRATING AND FRAME TO SUIT DESIGN LOADING. PRECAST PITS, RECTANGULAR OR CIRCULAR IN SHAPE, MAY BE USED IN LIEU AND SHALL COMPLY WITH RELEVANT AUSTRALIAN STANDARDS.

10. ALL PITS, GRATINGS AND FRAMES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS

SPECIFICATION AND TO BE IN ACCORDANCE WITH AS3500.3 AND AS3996. 11. PIT CHAMBER DIMENSIONS ARE TO BE SELECTED TO SATISFY THE FOLLOWING:

- PIPE SIZE

- DEPTH TO INVERT - SKEW ANGLE

REFER TYPICAL PIT CHAMBER DETAILS BELOW

IF PIT LID SIZE IS SMALLER THAN THE PIT CHAMBER SIZE THEN THE PIT LID IS TO BE CONSTRUCTED ON THE CORNER OF THE PIT CHAMBER WITH THE STEP IRONS DIRECTLY BELOW. ALTERNATIVELY THE PIT LID TO BE USED, IS TO BE THE SAME SIZE AS THE PIT CHAMBER.

12. FOR PIPE SIZES GREATER THAN Ø300mm, PIT FLOOR IS TO BE BENCHED TO FACILITATE FLOW.

13. GALVANISED STEP IRONS SHALL BE PROVIDED AT 300 CTS FOR PITS HAVING A DEPTH EXCEEDING 1200mm. SUBSOIL DRAINAGE PIPE SHALL BE PROVIDED IN PIPE TRENCHES ADJACENT TO INLET PIPES. (MINIMUM LENGTH 3m).

14. ALL SUBSOIL PIPES SHALL BE 100mm SLOTTED PVC IN A FILTER SOCK, UNO, WITH 3m INSTALLED UPSTREAM OF ALL PITS.

15. ALL PIPEWORK SHALL HAVE MINIMUM DIAMETER 100.

16. MINIMUM GRADE FOR ROOFWATER DRAINAGE LINES SHALL BE 1%.

17. ALL PIPE JUNCTIONS AND TAPER UP TO AND INCLUDING 300 DIA. SHALL BE VIA PURPOSE MADE FITTINGS.

18. ALL ROOF DRAINAGE TO BE INSTALLED IN ACCORDANCE WITH AS3500, PART 3. TESTING TO BE UNDERTAKEN AND REPORTS PROVIDED TO THE SUPERINTENDENT.

19. LOCATION OF THE DIRECT DOWN PIPE CONNECTIONS MAY VARY ON SITE TO SUIT SITE CONDITIONS, WHERE CONNECTION SHOWN ON LONG SECTIONS CHAINAGES ARE INDICATIVE ONLY.

20. PITS IN EXCESS OF 1.5 m DEEP TO HAVE WALL AND FLOOR THICKNESS INCREASED TO 200mm. REINFORCED WITH N12@200 CTS CENTRALLY PLACED BOTH WAYS THROUGHOUT U.N.O.ON SEPARATE DESIGN DRAWINGS IN THIS SET. IF DEPTH EXCEEDS 5m CONTACT ENGINEER.

21. SUBSOIL DRAINAGE LINES FOR LANDSCAPE AREA NOT SHOWN ON THESE DRAWINGS. REFER TO LANDSCAPING PLANS FOR DETAILS.

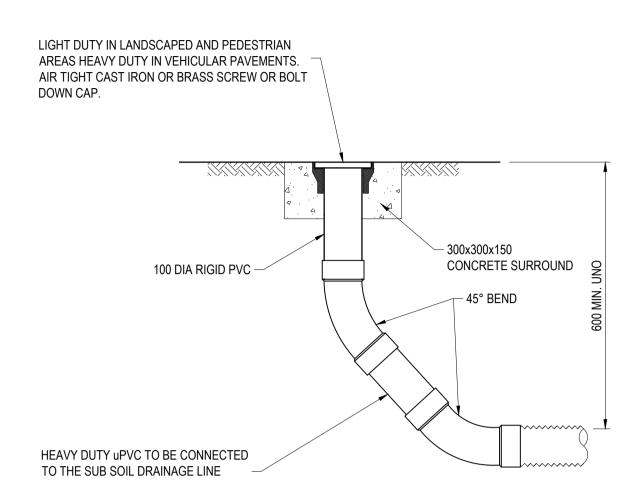
22. ALL STORMWATER PITS TO HAVE Ø100 uPVC SLOTTED SUBSOIL PIPES CONNECTED TO THEM. THESE SUBSOILS TO EXTEND 3m UPSTREAM OF THE PIT AT A MINIMUM GRADE.



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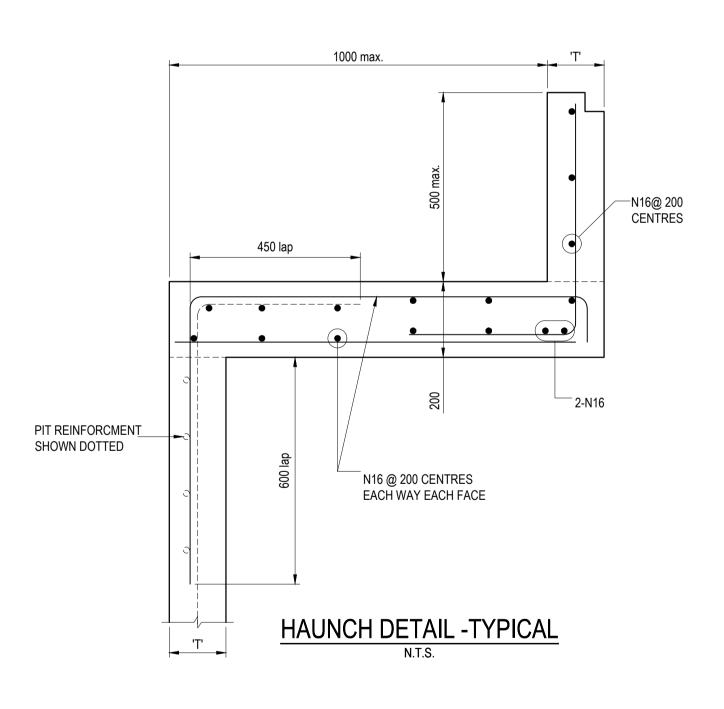
Approved Application no: SSD-10365 Signed:

Granted on: 27 November 2020 Sheet no: 23 of 31



FLUSHING POINT (FP)

NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED



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SCALE 1:20 SCALE 1:10 CATHOLIC EDUCATION | DIOCESE OF WOLLONGON JDH ARCHITECTS ISSUED FOR TENDER ONLY LV 17.01.2020 ISSUED FOR COORDINATION JK LV 11.11.2019 This drawing and design remains the property of Henry & Hymas and may not be

AMENDMENT

150 WALL - CORNER DETAIL

SCALE 1:20

DRAWN DESIGNED DATE

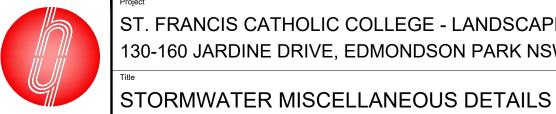
200 WALL - CORNER DETAIL

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henry&hymas

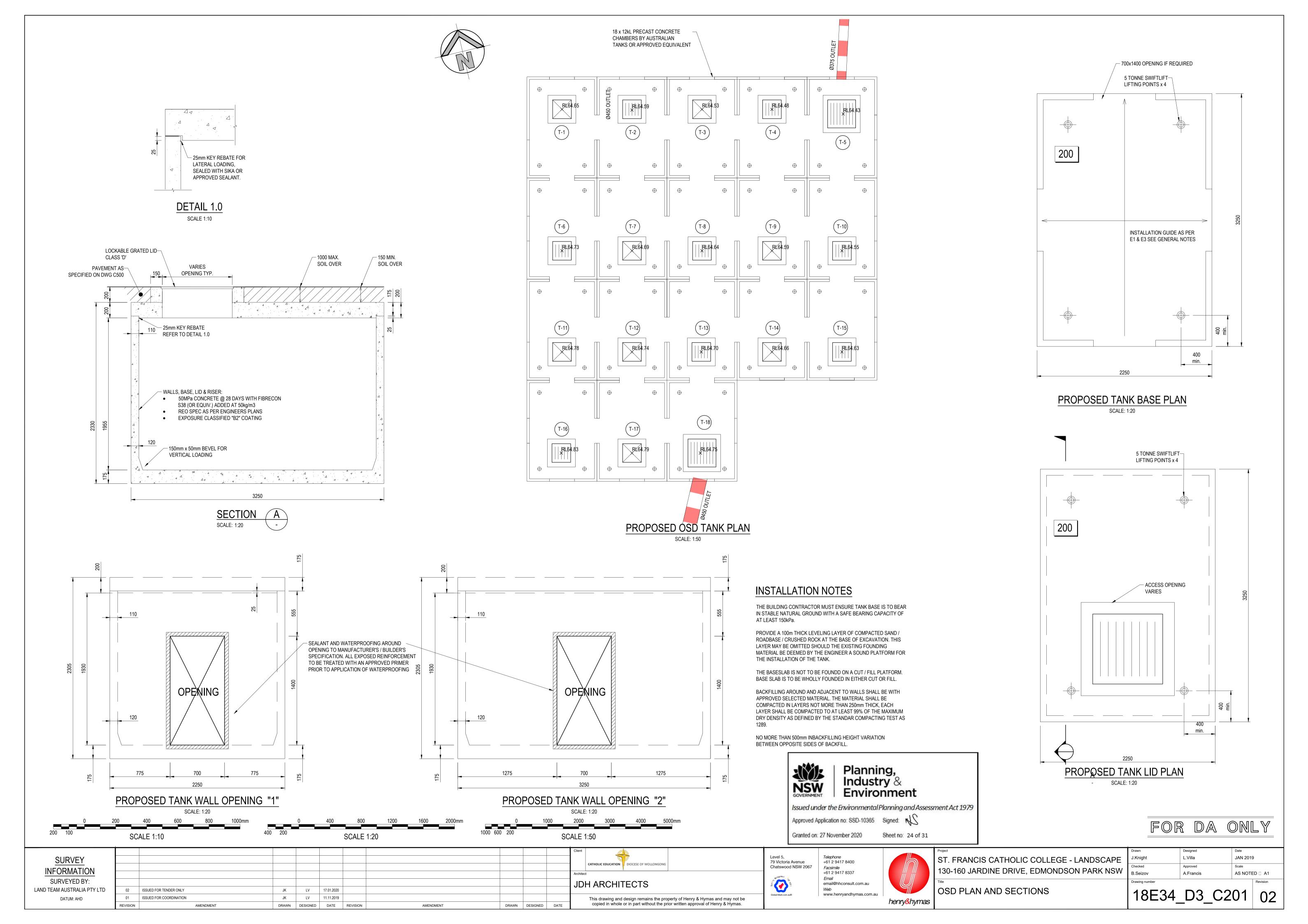


ST. FRANCIS CATHOLIC COLLEGE - LANDSCAPE 130-160 JARDINE DRIVE, EDMONDSON PARK NSW

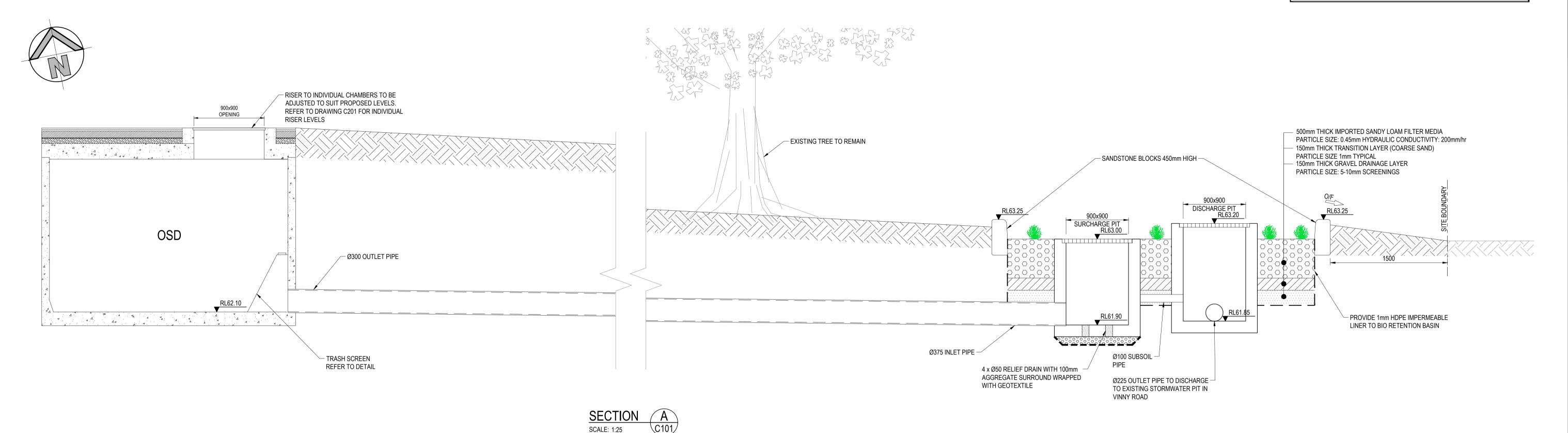
L.Villa JAN 2019 B.Seizov A.Francis AS NOTED

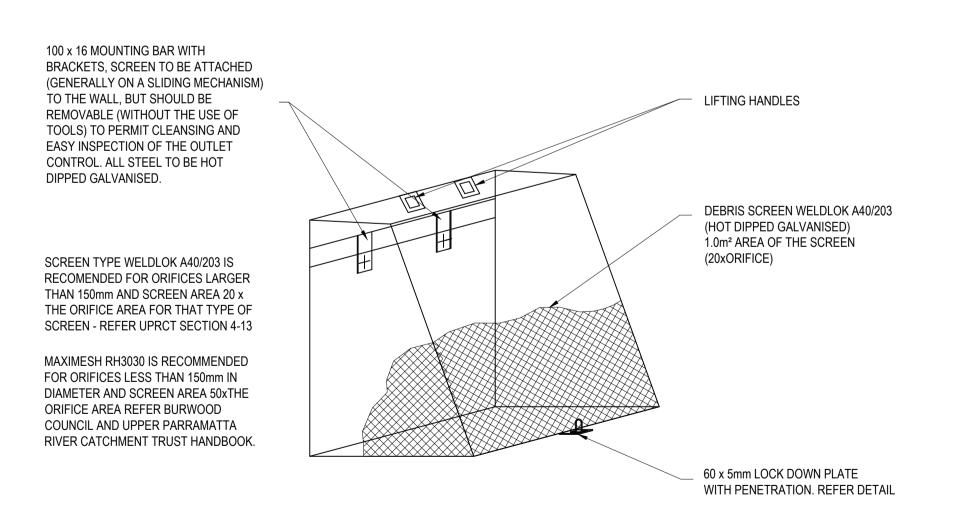
A1

18E34_D3_C200 02









DEBRIS SCREEN DETAIL

NOT TO SCALE
ALL STEEL TO BE HOT DIPPED GALVANISED

0 500 1000 1500 2000 2500mm 0 200 400 600 800 1000mm 500 300 100 SCALE 1:25 SCALE 1:10

FOR DA ONLY

JAN 2019

AS NOTED □ A1

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	REVISION		AMENDMENT	RAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAV	WN D	DESIGNED	DATE	copied in whole or in part without the prior written approval of Henry & Hymas.	
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ST. FRANCIS CATHOLIC COLLEGE - LANDSCAPE 130-160 JARDINE DRIVE, EDMONDSON PARK NSW

SCAPE
J.Knight
L.Villa

Checked
B.Seizov
Approved
A.Francis

Drawing number

OSD SECTIONS AND DETAILS

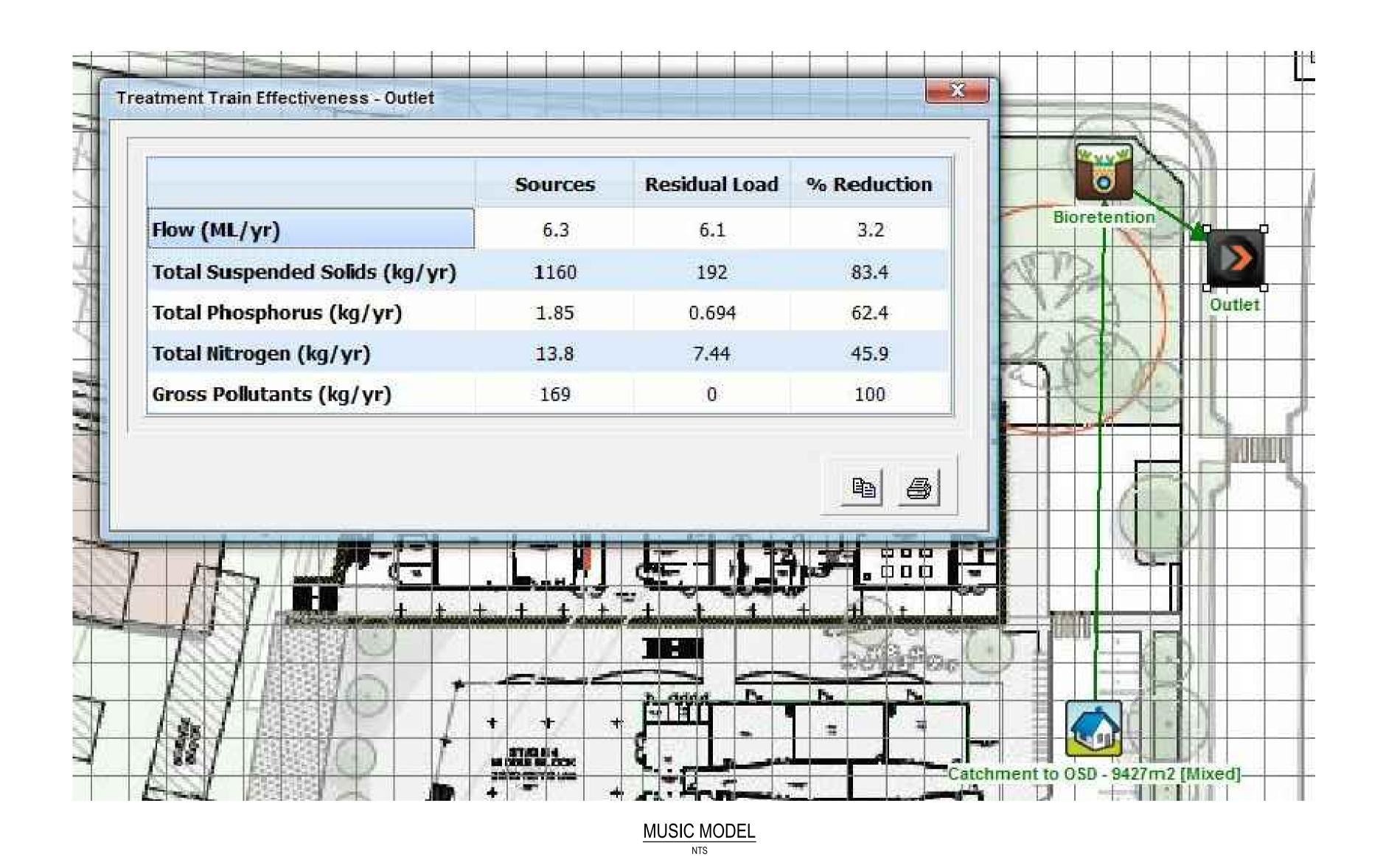
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Issued under the Environmental Planning and Assessment Act 1979

Approved Application no: SSD-10365 Signed:

Granted on: 27 November 2020 Sheet no: 26 of 31



DESIGN SUMMARY

THE STORMWATER MANAGEMENT MEASURES HAVE BEEN DESIGNED IN ACCORDANCE WITH LIVERPOOL CITY COUNCIL'S DEVELOPMENT CONTROL PLAN, ON-SITE STORMWATER DETENTION POLICY AND, ON-SITE

STORMWATER DETENTION TECHNICAL MANUAL.

A DRAINS MODEL HAS BEEN PREPARED TO DETERMINE THE PRE-DEVELOPMENT AD POST-DEVELOPMENT STORMWATER RUNOFF. THE PRE-DEVELOPMENT FLOW HAS BEEN LIMITED TO THE PRE-DEVELOPMENT FLOW PRODUCED BY THE CATCHMENT DRAINING TO VINNY ROAD REFER TO SUMMARY TABLE.

PRE-DEVELOPED VINNY ROAD CATCHMENT: 5239 m² (ASSUMED 100% PERVIOUS - 0% IMPERVIOUS) POST-DEVELOPMENT OSD CATCHMENT: 8684 m² (ASSUMED 10% PERVIOUS - 90% IMPERVIOUS)

OSD CALCULATIONS

YR	PRE-DEVELOPMENT (L/S)	POST-DEVELOPMEN (L/S)
100	191	179
20	133	106
10	108	94
5	80	78

TOTAL OSD STORAGE PROVIDED = 204m³

OSD OUTLET CONTROL: Ø250mm ORIFICE SITE DISCHARGE CONTROL: Ø200mm PIPE FROM BIO-RETENTION BASIN CONNECTING INTO EXISTING PIT ON

STORMWATER QUALITY

ON THE ADJACENT ECOSYSTEM RESULTING FROM THE PROPOSED DEVELOPMENT. A MUSIC MODEL HAS BEEN PREPARED TO DETERMINE THE EFFECTIVENESS OF THE WATER QUALITY TREATMENT DEVICES AT REACHING THE RATE REMOVAL RATES TARGETS SET BY LIVERPOOL CITY COUNCIL. REFER TO RESULT SUMMARY TABLE BELOW AND SCREENSHOT.

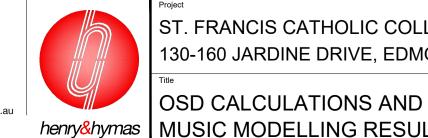
WATER	WATER QUALITY TREATMENT									
POLLUTANT	REDUCTION TARGETS (%)	ACHIEVED REDUCTION (%)								
GROSS POLLUTANT	90	100								
TOTAL SUSPENDED SOLIDS	80	83.4								
TOTAL PHOSPHORUS	45	62.4								
TOTAL NITROGEN	45	45.9								

FOR DA ONLY

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SURVEY												CATHOLIC EDUCATION DIOCESE OF WOLLONGONG	Level 79 Vic Chats
<u>INFORMATION</u>												Architect	- wanagen
SURVEYED BY:												JDH ARCHITECTS	11/1
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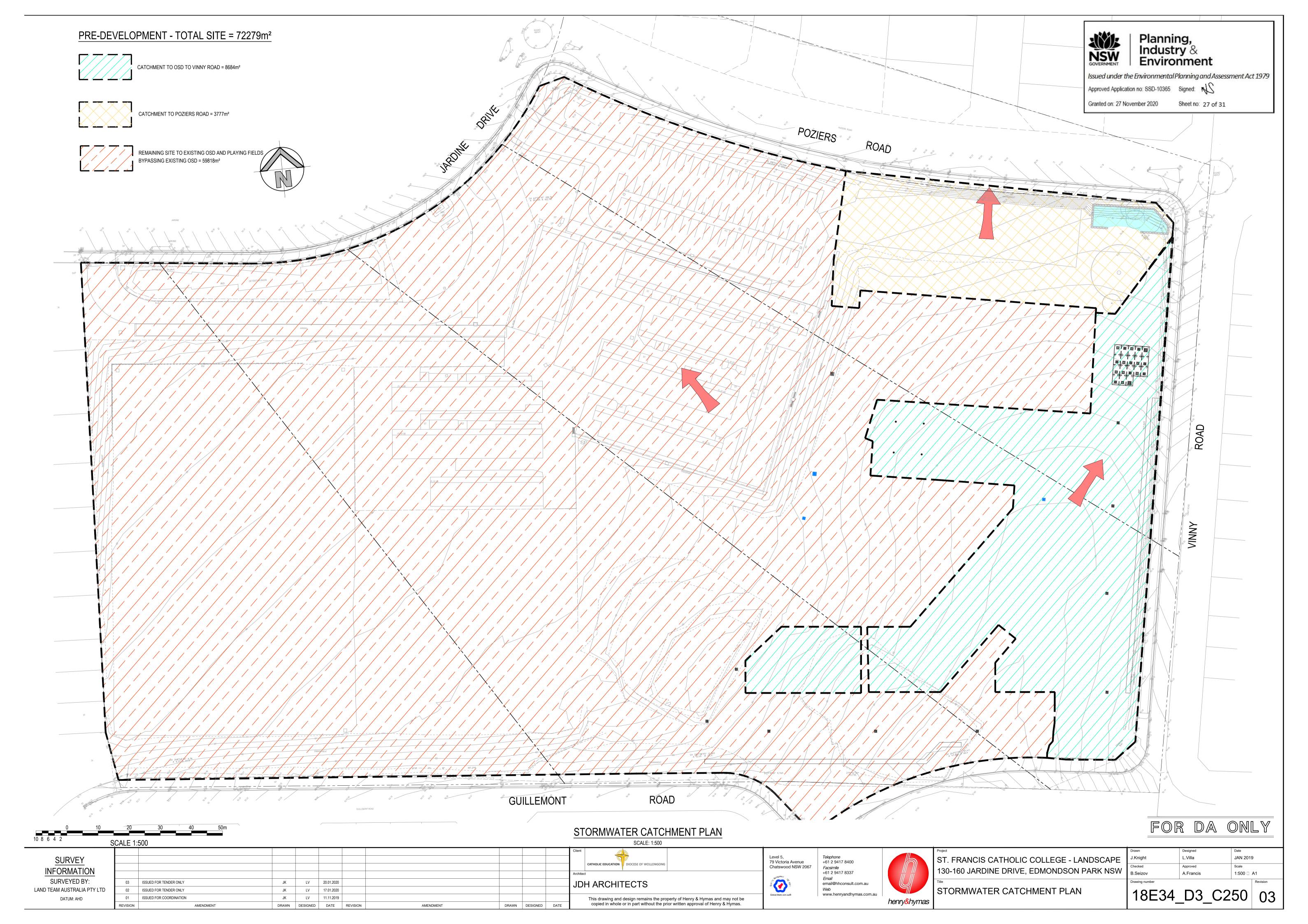


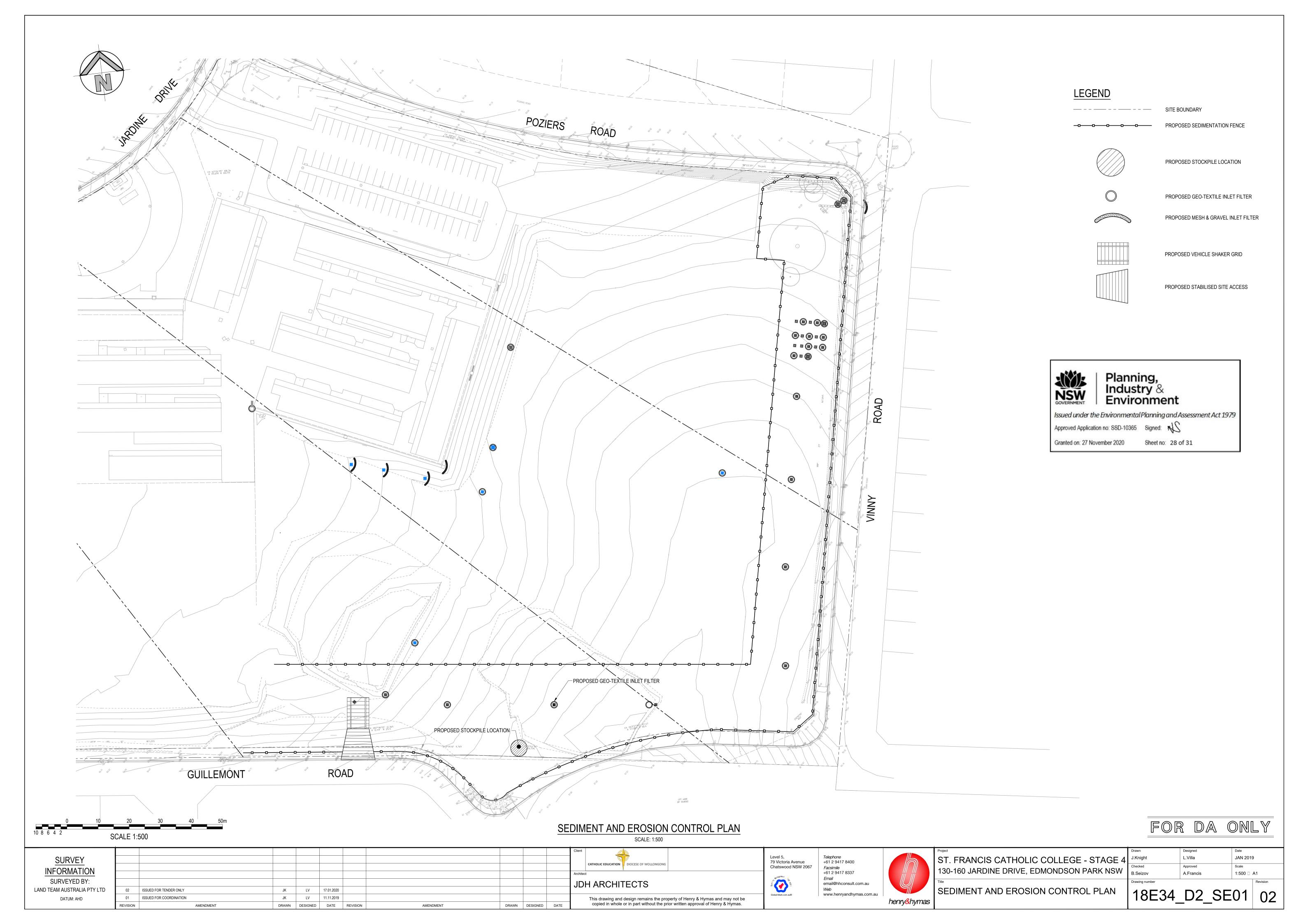


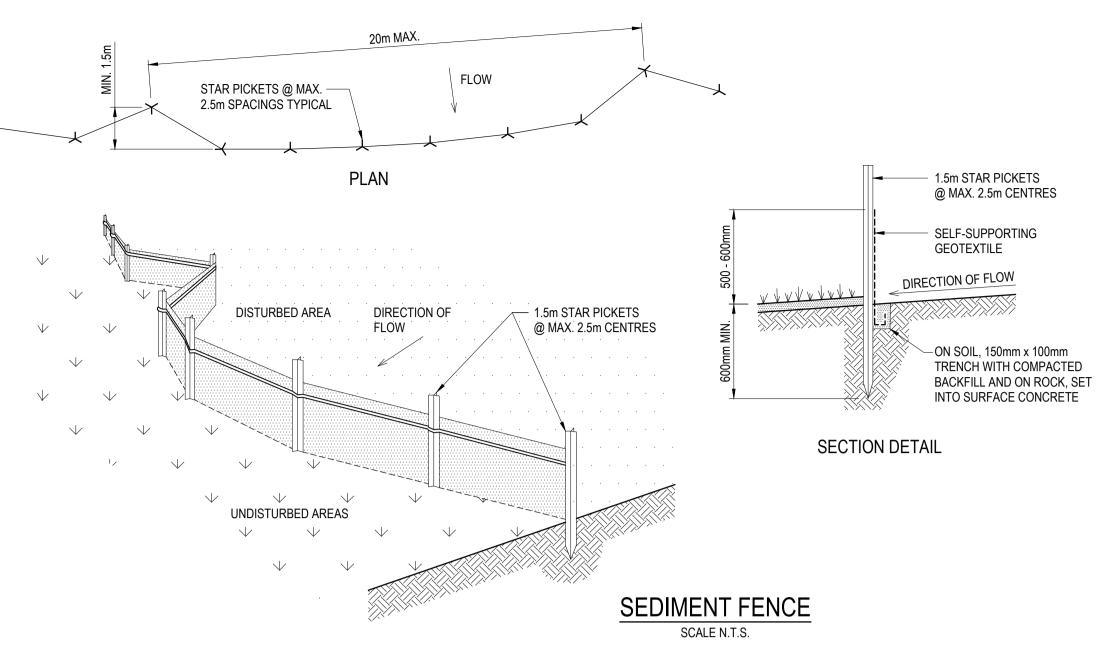


ST. FRANCIS CATHOLIC COLLEGE - LANDSO 130-160 JARDINE DRIVE, EDMONDSON PARK

	I				
	Drawn	Designed	Date		
CAPE	J.Knight	L.Villa	JAN 2019		
	Checked	Approved	Scale		
NSW	B.Seizov	A.Francis	NTS		
	Descripe acceptant			Davisian	

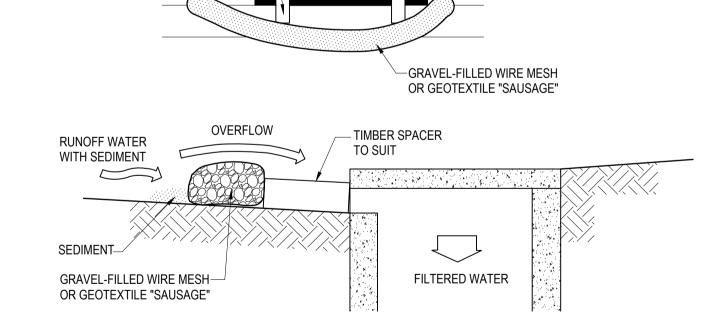






SEDIMENT FENCE CONSTRUCTION NOTES:

- CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
- 2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
- 3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND @ 2.5m INTERVALS (MAX.) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
- 4. 4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
- 5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP. 6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.



-KERB-SIDE INLET

MESH & GRAVEL INLET FILTER CONSTRUCTION NOTES:

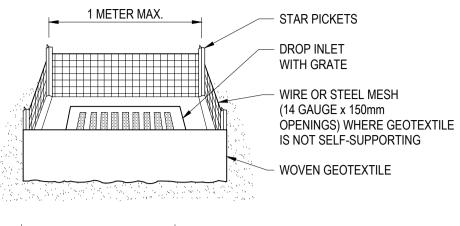
TIMBER SPACER-

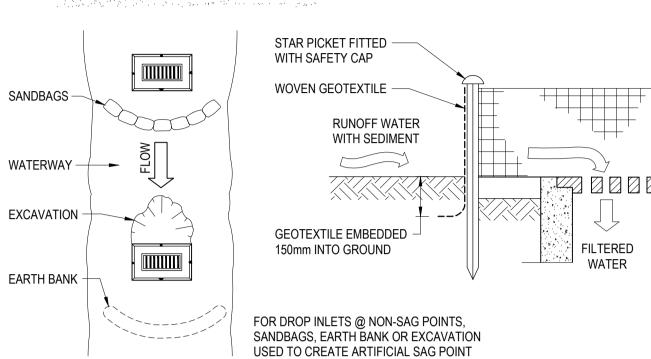
TO SUIT

- 1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET
- PIT AND FILL IT WITH 25mm TO 50mm GRAVEL. 2. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
- 3. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET.
- MAINTAIN THE OPENING WITH SPACER BLOCKS.
- 4. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
- 5. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY CAN FIRMLY ABUT EACH OTHER AND SEDIMENT / LADEN WATERS CANNOT PASS

MESH & GRAVEL INLET FILTER







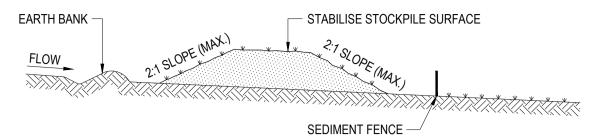
GEOTEXTILE INLET FILTER CONSTRUCTION NOTES:

- 1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE. 2. PICKET SPACING TO BE MAXIMUM 1.0m.
- 3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS
- 4. DO NOT COVER THE INLET WITH GEOTEXTILES UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.



SEDIMENT & EROSION CONTROL NOTES

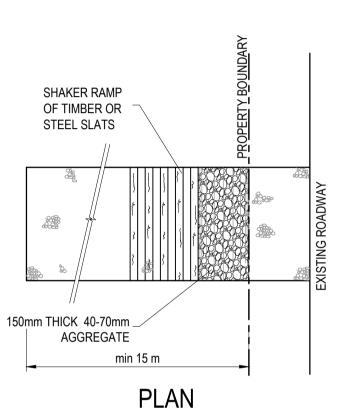
- ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH RESPECTIVE COUNCIL SPECIFICATIONS AND LANDCOM'S "SOIL AND CONSTRUCTION" MANUAL.
- ALL PERIMETER & SILTATION CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN EARTH WORKS AND/OR CLEARING.
- THE SEDIMENT & EROSION CONTROL PLAN MAY REQUIRE FUTURE ADJUSTMENT TO REFLECT CONSTRUCTION STAGING. IT IS ALSO THE CONTRACTORS RESPONSIBILTY TO PREPARE THEIR OWN SEDIMENT AND EROSION CONTROL PLAN WHICH SUITS THE DESIGNED CONSTRUCTION STAGING.
- FILTRATION BUFFER ZONES ARE TO BE FENCED OFF AND ACCESS PROHIBITED TO ALL PLANT AND MACHINERY.
- ALL TEMPORARY EARTH BERMS, DIVERSIONS & SILT DAM EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED & MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
- ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED. AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING. TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE LOCATION.
- ALL TOPSOIL IS TO BE STOCKPILED ON SITE FOR REUSE (AWAY FROM TREES) AND DRAINAGE LINES). MEASURES SHALL BE APPLIED TO PREVENT EROSION OF THE STOCKPILES.
- ALL EARTHWORK AREAS SHALL BE ROLLED EACH EVENING TO SEAL THE EARTHWORKS.
- ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND STRAW MULCHED WITHIN 14 DAYS OF COMPLETION OF FORMATION U.N.O. BY LANDSCAPE ARCHITECTS
- UPON COMPLETION OF ALL EARTHWORKS OR AS DIRECTED BY COUNCIL SOIL CONSERVATION TREATMENTS SHALL BE APPLIED SO AS TO RENDER AREAS THAT HAVE BEEN DISTURBED, EROSION PROOF WITHIN 14 DAYS.
- EROSION AND SILT PROTECTION MEASURES ARE TO BE MAINTAINED AT ALL TIMES.



STOCKPILE CONSTRUCTION NOTES:

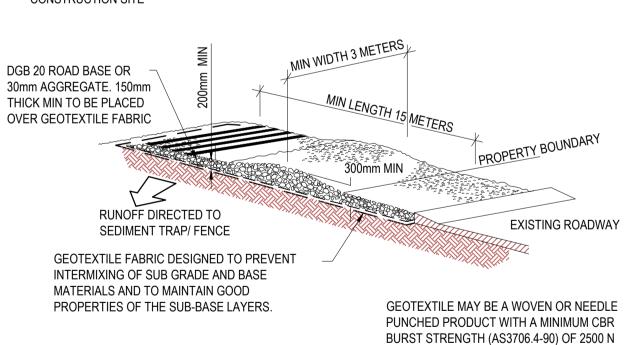
- 1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION,
- CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS. 2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
- WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT. 4. WHERE THEY ARE TO BE PLACED FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED
- E.S.C.P. OR S.W.M.P. TO REDUCE THE C-FACTOR TO LESS THAN 0.10. 5. CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.

STOCKPILES



STABILISED SITE ACCESS WITH SHAKER RAMP

CONSTRUCTION SITE



STABILISED SITE ACCESS WITH SHAKER RAMP

NOTES:

- 1. THIS DEVICE IS TO BE LOCATED AT ALL EXITS FROM CONSTRUCTION SITE.
- 2. THIS DEVICE IS TO BE REGULARLY CLEANED OF DEPOSITED MATERIAL SO AS TO MAINTAIN A 50mm DEEP SPACE BETWEEN
- 3. ANY UNSEALED ROAD BETWEEN THIS DEVICE AND NEAREST ROADWAY IS TO BE TOPPED WITH 100mm THICK 40-70mm SIZE AGGREGATE.
- 4. ALTERNATIVELY, THREE(3) PRECAST CONCRETE CATTLE GRIDS (AS MANUFACTURED BY "HUMES CONCRETE MAY BE USED. 1, 2 & 3 ABOVE ALSO APPLY.

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L.Villa JAN 2019 ST. FRANCIS CATHOLIC COLLEGE - STAGE 4 SURVEY 79 Victoria Avenue +61 2 9417 8400 CATHOLIC EDUCATION DIOCESE OF WOLLONGON Chatswood NSW 2067 Facsimile **INFORMATION** 130-160 JARDINE DRIVE, EDMONDSON PARK NSW +61 2 9417 8337 A.Francis NTS SURVEYED BY: JDH ARCHITECTS email@hhconsult.com.au SEDIMENT AND EROSION CONTROL DETAILS | 18E34_D2_SE02 | 02 LAND TEAM AUSTRALIA PTY LTD LV 17.01.2020 ISSUED FOR TENDER ONLY www.henryandhymas.com.au 01 ISSUED FOR COORDINATION LV 11.11.2019 This drawing and design remains the property of Henry & Hymas and may not be henry&hymas copied in whole or in part without the prior written approval of Henry & Hymas. DRAWN DESIGNED DATE DRAWN DESIGNED DATE REVISION AMENDMENT

