

DRAWING SCHEDULE	
18652_SSDA_C000	COVER SHEET, DRAWING SCHEDULE AND LOCALITY SKETCH
18652_SSDA_C010	STANDARD NOTES
18652_SSDA_C100	GENERAL ARRANGEMENT PLAN
18652_SSDA_C101	DETAIL PLAN - SHEET 1 OF 9
18652_SSDA_C102	DETAIL PLAN - SHEET 2 OF 9
18652_SSDA_C103	DETAIL PLAN - SHEET 3 OF 9
18652_SSDA_C104	DETAIL PLAN - SHEET 4 OF 9
18652_SSDA_C105	DETAIL PLAN - SHEET 5 OF 9
18652_SSDA_C106	DETAIL PLAN - SHEET 6 OF 9
18652_SSDA_C107	DETAIL PLAN - SHEET 7 OF 9
18652_SSDA_C108	DETAIL PLAN - SHEET 8 OF 9
18652_SSDA_C109	DETAIL PLAN - SHEET 9 OF 9
18652_SSDA_C150	ROAD 1 LONGITUDINAL SECTION - SHEET 1 OF 2
18652_SSDA_C151	ROAD 1 LONGITUDINAL SECTION - SHEET 2 OF 2
18652_SSDA_C160	SITE SECTIONS - SHEET 1 OF 2
18652_SSDA_C161	SITE SECTIONS - SHEET 2 OF 2
18652_SSDA_C200	STORMWATER MISCELLANEOUS DETAILS AND PIT LID SCHEDULE
18652_SSDA_C201	STORMWATER MISCELLANEOUS DETAILS
18652_SSDA_C240	BASIN DETAILS - SHEET 1 OF 2
18652_SSDA_C241	BASIN DETAILS - SHEET 2 OF 2
18652_SSDA_C250	CATCHMENT PLAN
18652_SSDA_C251	CATCHMENT PLAN - ACCESS ROAD
18652_SSDA_C330	BRIDGE CONCEPT PLAN
18652_SSDA_C331	BRIDGE CONCEPT SECTION
18652_SSDA_C600	B-DOUBLE VEHICLE TURNING PATHS - SHEET 1 OF 8
18652_SSDA_C601	B-DOUBLE VEHICLE TURNING PATHS - SHEET 2 OF 8
18652_SSDA_C602	B-DOUBLE VEHICLE TURNING PATHS - SHEET 3 OF 8
18652_SSDA_C603	B-DOUBLE VEHICLE TURNING PATHS - SHEET 4 OF 8
18652_SSDA_C604	B-DOUBLE VEHICLE TURNING PATHS - SHEET 5 OF 8
18652_SSDA_C605	B-DOUBLE VEHICLE TURNING PATHS - SHEET 6 OF 8
18652_SSDA_C606	B-DOUBLE VEHICLE TURNING PATHS - SHEET 7 OF 8
18652_SSDA_C607	B-DOUBLE VEHICLE TURNING PATHS - SHEET 8 OF 8
18652_SSDA_C608	INTERCUT TURNING PATHS PLAN
18652_SSDA_C609	WATER MANAGEMENT BASIN MAINTENANCE TURNING PATHS
18652_SSDA_SE01	SEDIMENT AND EROSION CONTROL PLAN - SHEET 1 OF 2
18652_SSDA_SE02	SEDIMENT AND EROSION CONTROL PLAN - SHEET 2 OF 2
18652_SSDA_SE03	SEDIMENT AND EROSION CONTROL TYPICAL SECTIONS AND DETAILS
18652_SSDA_BE01	BULK EARTHWORKS CONCEPT CUT AND FILL PLAN - SHEET 1 OF 2
18652_SSDA_BE02	BULK EARTHWORKS CONCEPT CUT AND FILL PLAN - SHEET 2 OF 2
18652_SSDA_EX01	EXTERNAL WORKS PLAN - WALLGROVE ROAD

[illegible]

GENERAL NOTES:

1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL SPECIFICATION, CONTRACTOR TO OBTAIN AND RETAIN A COPY ON SITE DURING THE COURSE OF THE WORKS.
2. ALL NEW WORKS ARE TO MAKE A SMOOTH JUNCTION WITH EXISTING CONDITIONS AND MARRY IN A 'WORKMANLIKE' MANNER.
3. THE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL SERVICES WITH EACH RELEVANT AUTHORITY. ANY DAMAGE TO SERVICES SHALL BE RECTIFIED BY THE CONTRACTOR OR THE RELEVANT AUTHORITY AT THE CONTRACTOR'S EXPENSE. SERVICES SHOWN ON THESE PLANS ARE ONLY THOSE EVIDENT AT THE TIME OF SURVEY OR AS DETERMINED FROM SERVICE DIAGRAMS. H & H CONSULTING ENGINEERS PTY. LTD CANNOT GUARANTEE THE INFORMATION SHOWN NOR ACCEPT ANY RESPONSIBILITY FOR INACCURACIES OR INCOMPLETE DATA.
4. SERVICES & ACCESSSES TO THE EXISTING PROPERTIES ARE TO BE MAINTAINED IN WORKING ORDER AT ALL TIMES DURING CONSTRUCTION.
5. ADJUST EXISTING SERVICE COVERS TO SUIT NEW FINISHED LEVELS TO RELEVANT AUTHORITY REQUIREMENTS WHERE NECESSARY.
6. REINSTATE AND STABILISE ALL DISTURBED LANDSCAPED AREAS.
7. MINIMUM GRADE OF SUBSOIL SHALL BE 0.5% (1/200) FALL TO OUTLETS.
8. ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS, EROSION AND SEDIMENTATION CONTROL PLAN AND BLACKTOWN CITY COUNCIL REQUIREMENTS WHERE APPLICABLE.
9. 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.

SURVEY NOTES

1. THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY THE SURVEYOR SPECIFIED IN THE TITLE BLOCK.
2. 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.
3. 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.
 - ORIGIN OF LEVELS GPS RTK
 - DATUM A.H.D.
 - CONTOUR INTERVAL 1.0m

SUBGRADE PREPARATION - SITEWORKS.

1. THE EXISTING SURFACE IS TO BE STRIPPED OF ANY PAVEMENTS, TOPSOIL OR OBVIOUS UNSUITABLE MATERIAL.
2. EXCAVATE TO ACHIEVE SUBGRADE LEVELS WHERE NECESSARY.
3. THE EXPOSED SUBGRADE AFTER STRIPPING AND/ OR EXCAVATION IS TO BE PROOF ROLLED USING NOT FEWER THAN 5 PASSES OF A MINIMUM 8 TONNE DEAD WEIGHT STEEL SMOOTH-DRUM ROLLER UNDER THE SUPERVISION OF AN EXPERIENCED GEOTECHNICAL ENGINEER OR AN EXPERIENCED CIVIL ENGINEER. ANY AREAS ON THE SUBGRADE EXHIBITING EXCESSIVE DEFLECTION / MOVEMENT UNDER ROLLER TO BE EXCAVATED TO A MIN. DEPTH OF 0.5m AND REPLACED WITH APPROVED GRANULAR MATERIAL COMPACTED IN 250mm LOOSE LAYERS OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
4. ENGINEERED FILL FOR REPLACEMENT OF SOFT OR HEAVING AREAS OR FOR BULK FILLING TO COMPRISE ESSENTIALLY OF GRANULAR MATERIALS (E.G. EXCAVATED SHALE), WITH A PARTICLE SIZE NOT GREATER THAN 75mm DIAMETER. ENGINEERED FILL TO BE PLACED IN LAYERS NOT EXCEEDING 250mm LOOSE THICKNESS AND COMPACTED TO BETWEEN 98% AND 102% OF STANDARD MAXIMUM DRY DENSITY (SMD) WITHIN $\pm 2\%$ OF OPTIMUM MOISTURE CONTENT (OMC).
5. IMPORTED FILLING (IF REQUIRED) IS TO BE TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR IS TO NOMINATE THE SOURCE AND PROVIDE A SAMPLE FOR APPROVAL PRIOR TO IMPORTATION AND PLACEMENT ON SITE.
6. ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE SUPERINTENDENT AND SHALL COMPLY WITH THE FOLLOWING.
FREE FORM ORGANIC AND PERISHABLE MATTER
MAXIMUM PARTICLE SIZE = 75mm
MAXIMUM PLASTICITY INDEX = 15%

SUBSOIL DRAINAGE NOTES

1. **GENERALLY PROVIDE SUBSOIL DRAINS TO INTERCEPT GROUNDWATER SEEPAGE AND PREVENT WATER BUILD-UP BEHIND WALLS AND UNDER FLOORS AND PAVEMENTS. CONNECT SUBSOIL TO SURFACE DRAINS OR TO THE STORMWATER DRAINAGE SYSTEM AS APPLICABLE.**
2. **PIPE DEPTH:**
PROVIDE THE FOLLOWING MINIMUM CLEAR DEPTH, MEASURED TO THE CROWN OF THE PIPE, WHERE THE PIPE PASSES BELOW THE FOLLOWING ELEMENTS:
 - 100mm BELOW FORMATION LEVEL OF THE TRENCH, KERB OR CHANNEL.
 - 100mm BELOW THE AVERAGE GRADIENT OF THE BOTTOM OF FOOTINGS.
3. **JOINING:**
AT JUNCTIONS OF SUBSOIL PIPES PROVIDE TEES, COUPLINGS OR ADAPTORS TO AS2439.1.
4. **TRENCH WIDTH MINIMUM 300mm.**
5. **PIPE UNDERLAY:**
GENERAL: GRADE THE TRENCH FLOOR EVENLY TO THE GRADIENT OF THE PIPELINE. IF THE TRENCH FLOOR IS ROCK, CORRECT ANY IRREGULARITIES WITH COMPACT BEDDING MATERIAL. BED PIPING ON A CONTINUOUS UNDERLAY OF BEDDING MATERIAL, AT LEAST 75mm THICK AFTER COMPACTION. LAY THE PIPE WITH ONE LINE OF PERFORATIONS AT THE BOTTOM.
- CHASES: IF NECESSARY TO PREVENT PROJECTIONS SUCH AS SOCKETS AND FLANGES FROM BEARING ON THE TRENCH BOTTOM OR UNDERLAY.
6. **PIPE SURROUNDS:**
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.
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.
7. **FILTER SOCKS:**
PROVIDE POLYESTER PERMEABLE SOCKS CAPABLE OF RETAINING PARTICLES OF 0.25mm SIZES. SECURELY FIT OR JOIN THE SOCK AT EACH JOINT.

SITEWORKS NOTES

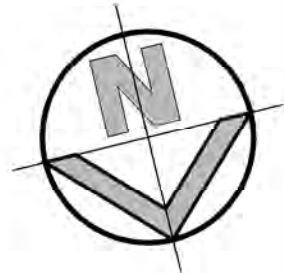
1. DATUM : A.H.D.
2. ORIGIN OF LEVELS : REFER TO BENCH OR STATE SURVEY MARKS WHERE SHOWN ON PLAN.
3. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS & THE DIRECTIONS OF THE SUPERINTENDENT.
5. EXISTING SERVICES UNLESS SHOWN ON THE 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 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 AUTHORITY.
6. WHERE NEW WORKS ABOUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS ACHIEVED.
7. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
8. CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATION IS TO BE UNDERTAKEN OVER TELSTRA OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
9. CONTRACTOR TO OBTAIN AUTHORITY APPROVALS WHERE APPLICABLE.
10. MAKE SMOOTH TRANSITION TO EXISTING SURFACES AND MAKE GOOD.
11. THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED LANDSCAPE, ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND SPECIFICATIONS
12. OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED RELATING
13. TO DEVELOPMENT AT THE SITE.
14. TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MINIMUM OF 50mm IN BITUMINOUS PAVING.
15. 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.
16. GRADES TO PAVEMENTS TO BE AS IMPLIED BY R/L'S ON PLAN. GRADE EVENLY BETWEEN NOMINATED R/L'S. AREAS EXHIBITING PONDING GREATER THAN 5mm DEPTH WILL NOT BE ACCEPTED UNLESS IN A DESIGNATED SAG POINT.
17. ALL COVERS AND GRATES ETC TO EXISTING SERVICE UTILITIES ARE TO BE ADJUSTED TO SUIT NEW FINISHED SURFACE LEVELS WHERE APPLICABLE.

DRAINAGE NOTES:

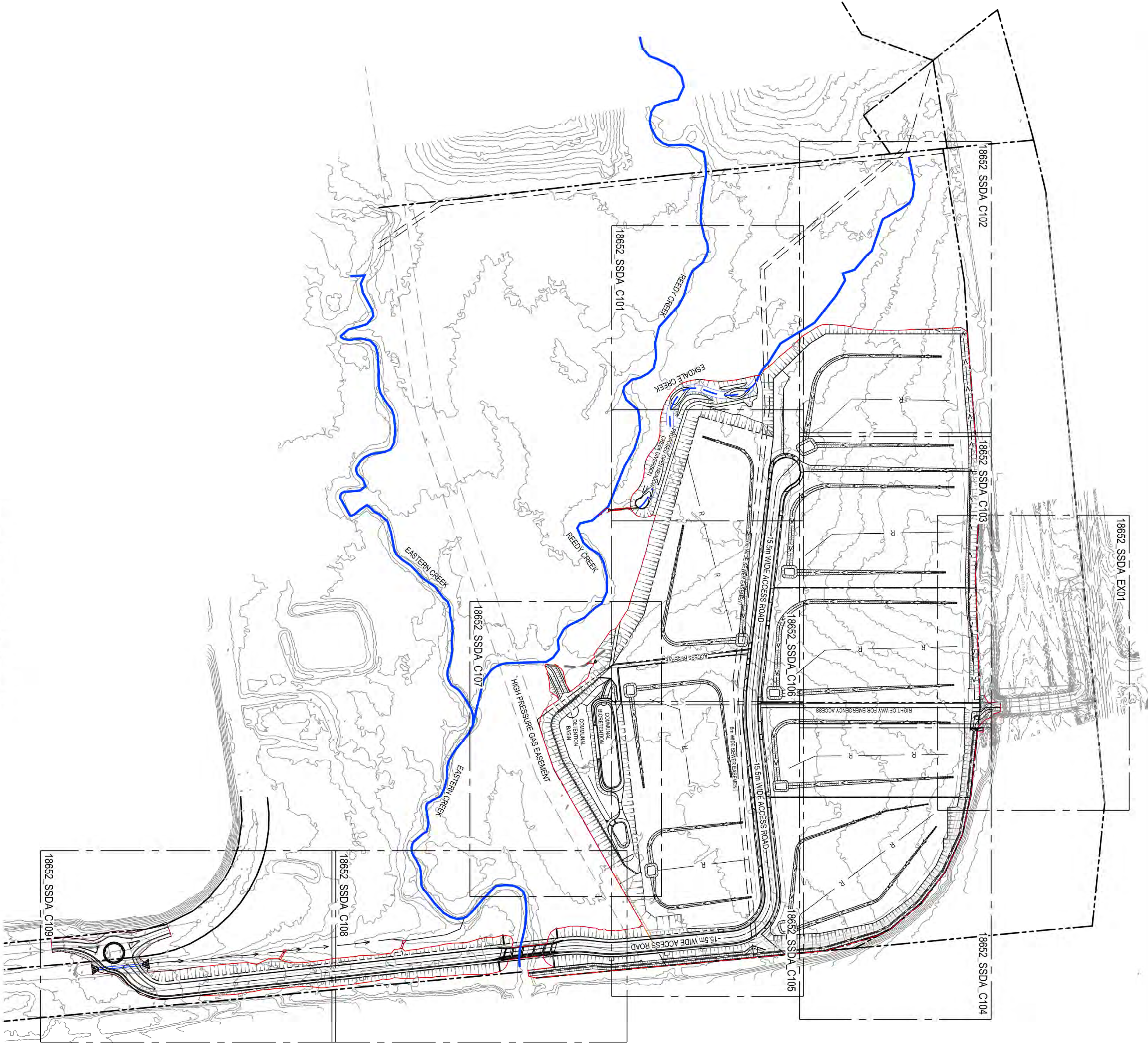
1. ALL STORMWATER WORK TO COMPLY WITH AS 3500 PART 3.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE MINIMUM COVER OF 600mm ON ALL PIPES.
3. PROTECTION OF PIPES DUE TO LOADS EXCEEDING W7 WHEEL LOAD SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
4. BEDDING TYPE SHALL BE TYPE H2 FOR RCP. WHERE NECESSARY 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 JOINED PVC CLASS SH PIPE TO AS1260. ALL OTHER PIPES TO BE RCP USING CLASS 2 RUBBER JOIN JOINTED PIPE. HARDIES FRC PIPE MAY BE USED IN LIEU OF RCP IF DESIGNED 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.
10. ALL PITS IN TRAFFICABLE AREAS (CLASS "D" LOADING MAX) TO HAVE 150mm THICK CONCRETE WALLS AND BASE CAST IN-SITU $f_{cd}=32$ 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.
11. ALL PITS, GRATINGS AND FRAMES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION AND TO BE IN ACCORDANCE WITH AS3500.3 AND AS3596.
11. PIT CHAMBER DIMENSIONS ARE TO BE SELECTED TO SATISFY THE FOLLOWING:
 - PIPE SIZE
 - DEPTH TO INVERT
 - SKEW ANGLEREFER 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 BENCH TO FACILITATE FLOW.

ISSUED FOR APPROVAL

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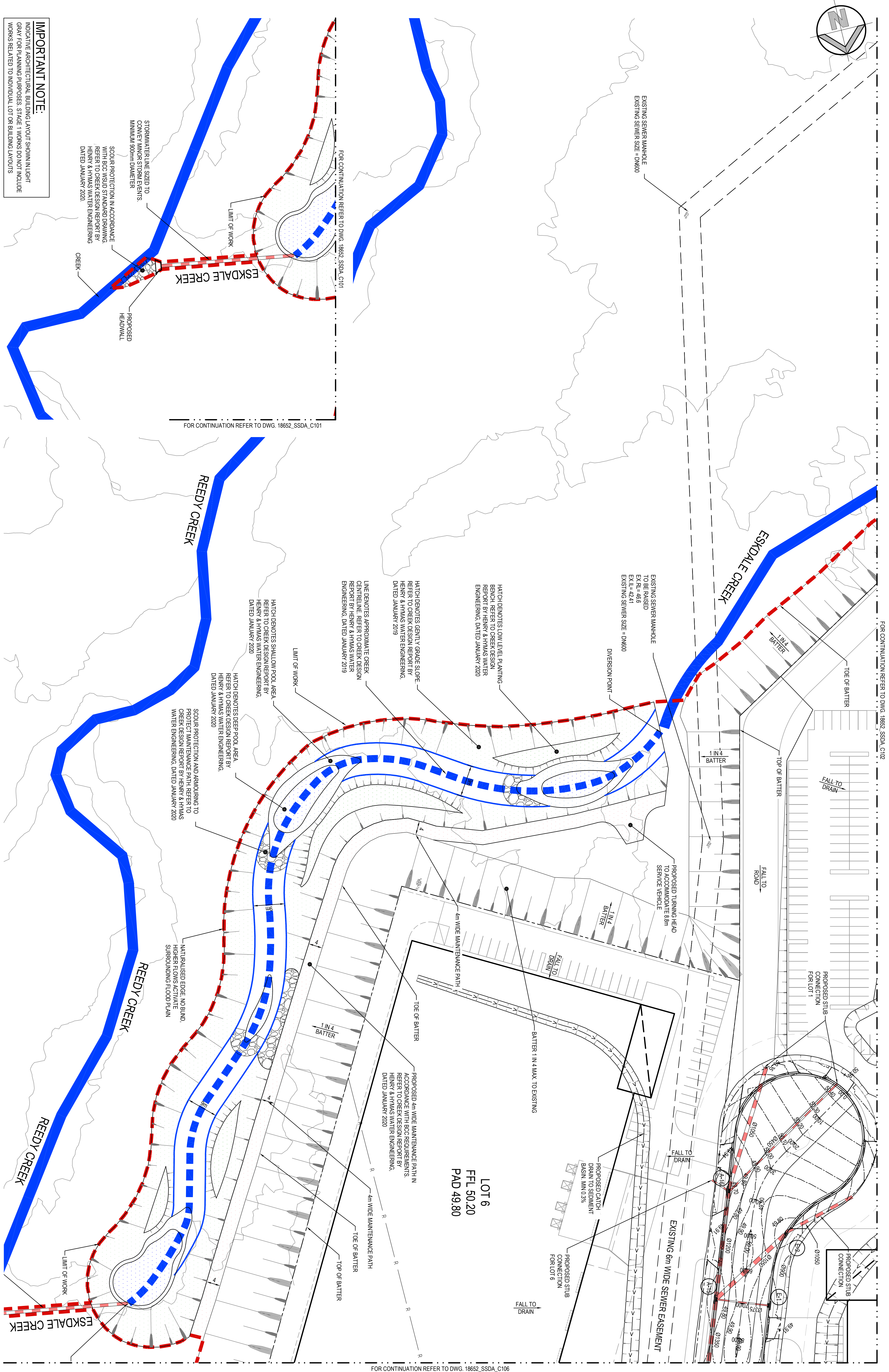
SCALE 1:3000



GENERAL ARRANGEMENT PLAN

SCALE 1:3000

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IMPORTANT NOTE:
INDICATIVE ARCHITECTURAL BUILDING LAYOUT SHOWN IN LIGHT GRAY FOR PLANNING PURPOSES. STAGE 1 WORKS DO NOT INCLUDE WORKS RELATED TO INDIVIDUAL LOT OR BUILDING LAYOUTS

A vertical scale bar with markings at 0, 10, 20, 30, 40, and 50m.

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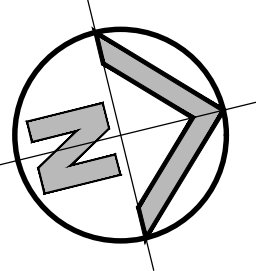
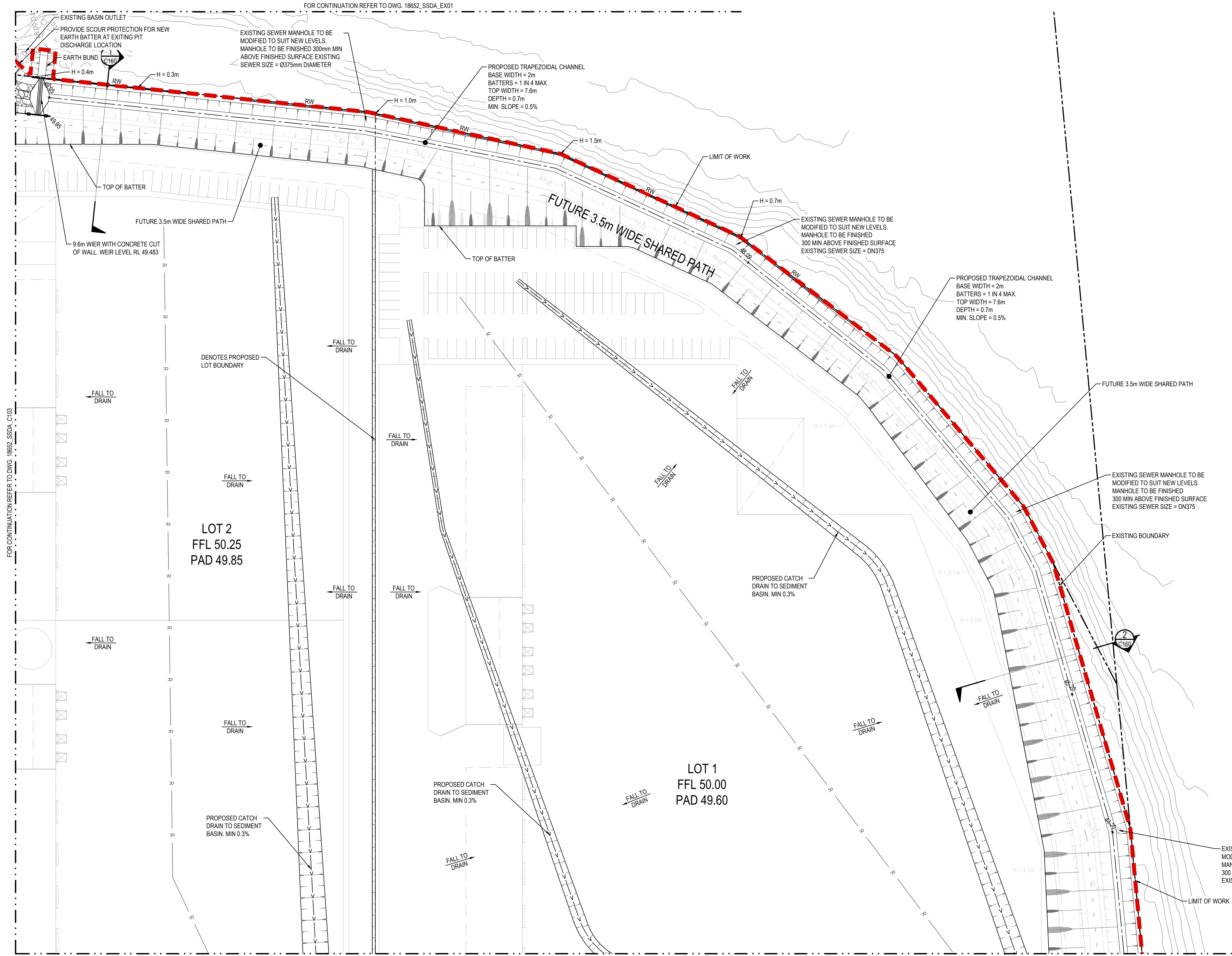


INDICATIVE ARCHITECTURAL BUILDING LAYOUT SHOWN IN LIGHT GRAY FOR PLANNING PURPOSES. STAGE 1 WORKS DO NOT INCLUDE WORKS RELATED TO INDIVIDUAL LOT OR BUILDING LAYOUTS

FOR CONTINUATION REFER TO DWG. 18652_SSDA_C101

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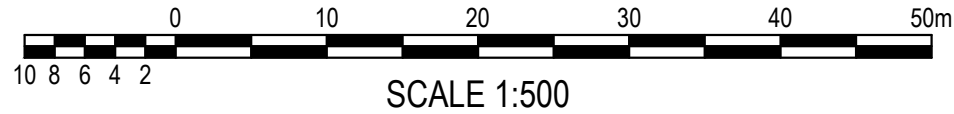
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IMPORTANT NOTE:
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FOR CONTINUATION REFER TO DWG. 18652_SSDA_C103

FOR CONTINUATION REFER TO DWG. 18652_SSDA_C105



DETAIL PLAN
SCALE: 1:500

ISSUED FOR APPROVAL

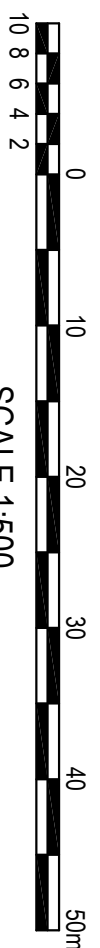
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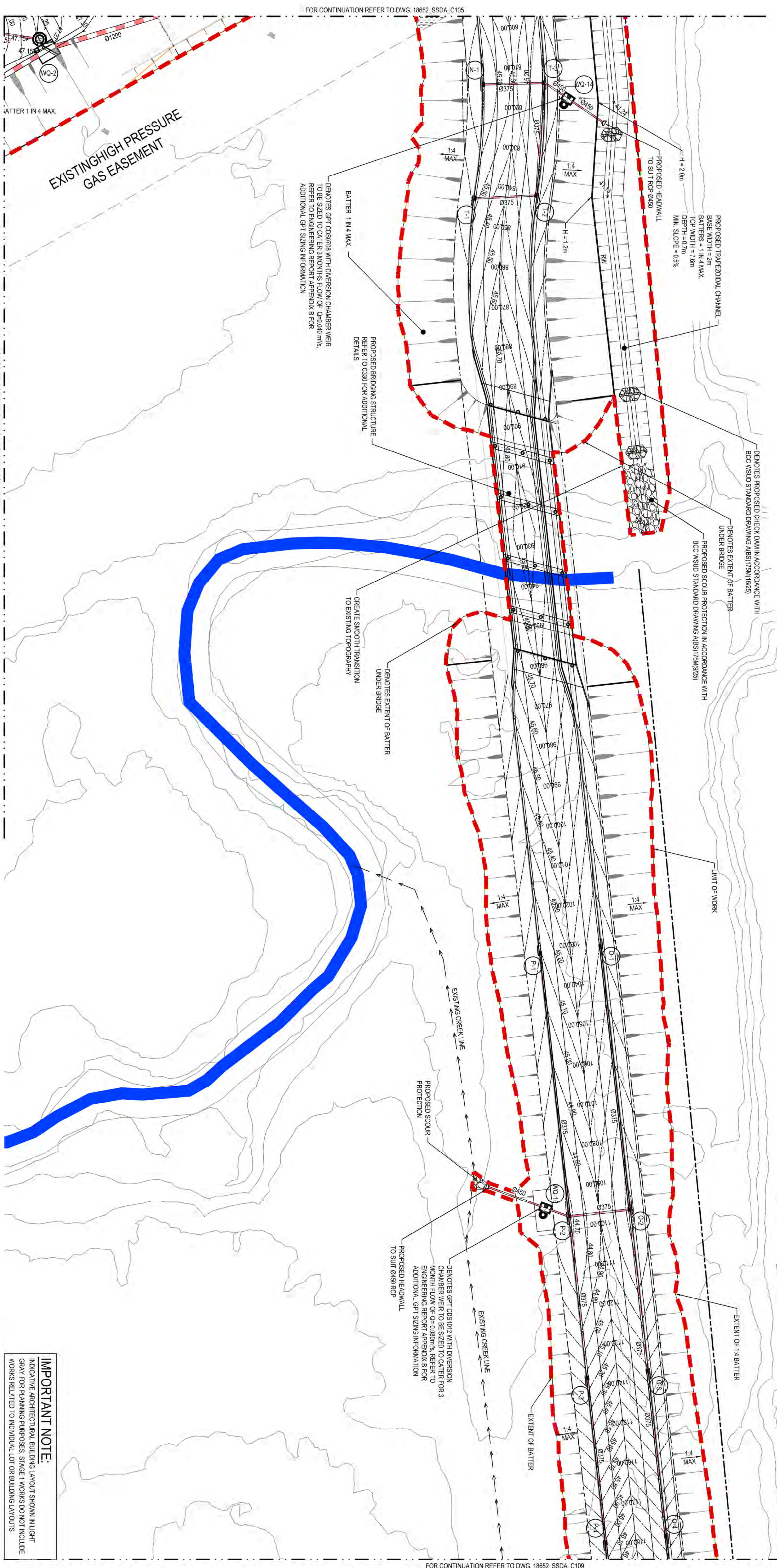
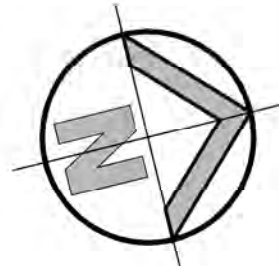
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-HIGH LEVEL DISCHARGE CONTROL
OUTLET. REFER TO CREEK DESIGN
REPORT BY HENRY & HYMAS WATER
ENGINEERING, DATED JANUARY 2019



DETAIL PLAN

				Client		WESTERN SYDNEY PARKLANDS TRUST		 Level 5 117 Pitt Street Chesham NSW 2067 Tel: 02 9417 8400 Fax: 02 9417 8337 Email: enquiries@hconconsult.com.au Web: www.hconconsult.com.au	
				Drawn		M. Stronka		Project LIGHT HORSE INTERCHANGE BUSINESS HUB EASTERN CREEK, NSW (SSD9667)	
				Checked		L. Calbra		Drawn	
				N. Wenzler		Approved		L. Calbra	
				A. Francis		Scale @ A1		1:500	
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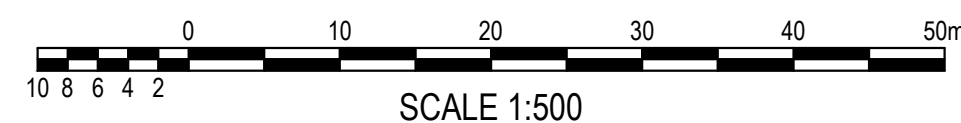
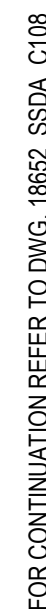
IMPORTANT NOTE:
INDICATIVE ARCHITECTURAL BUILDING LAYOUT SHOWN IN LIGHT GRAY FOR PLANNING PURPOSES. STAGE 1 WORKS DO NOT INCLUDE WORKS RELATED TO INDIVIDUAL LOT OR BUILDING LAYOUTS.

FOR CONTINUATION REFER TO DWG. 18652_SSDA_C107

DETAIL PLAN

ISSUED FOR APPROVAL

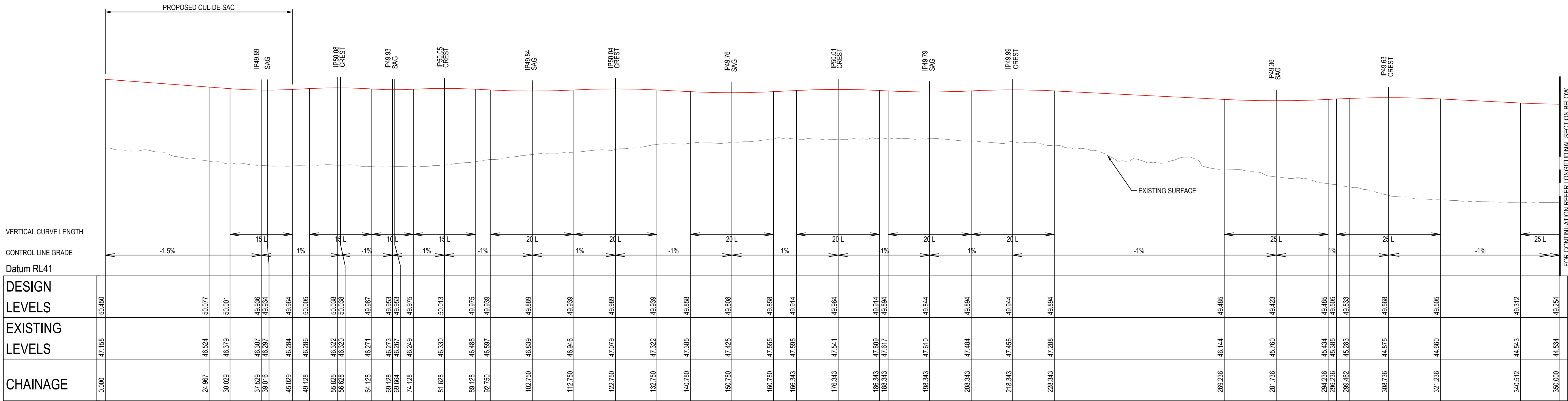
 NSW GOVERNMENT		 Western Sydney Parklands Trust																			
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04	ISSUED FOR APPROVAL	IK	NW	13/12/2019																	
03	ISSUED FOR APPROVAL	MS	NW	06/04/2019																	
02	ISSUED FOR COORDINATION	IK	NW	05/10/2015																	
01	PRELIMINARY	IK	NW	20/10/19																	
	REVISION	BROWN	DESIGNED	DATE																	
<div> <div>Client</div> <div>WESTERN SYDNEY PARKLANDS TRUST</div> </div> <div> <div>NETTLETONTRIBE</div> <div> <p>The drawing and design remains the property of Henry & Hyman and may not be copied in whole or in part without the prior written approval of Henry & Hyman.</p> </div> </div> <div> <div>  Nettletontribe Level 5 175 George Avenue Cheshamwood NSW 2067 Tel: 02 9417 8400 Fax: 02 9417 8337 email: info@nettletontribe.com.au www.nettletontribe.com.au </div> <div>  Henry & Hyman 18652_SSDA_C108 SHEET 8 OF 9 </div> </div> <div> <div>  Light Horse Interchange Business Hub EASTERN CREEK, NSW (SSD9667) </div> <div> DETAIL PLAN SHEET 8 OF 9 </div> </div> <div> <div> <div>Drawn</div> <div>M. Sironov</div> <div>Designed</div> <div>L. Cairns</div> <div>Check</div> <div>N. Wardle</div> <div>Scale</div> <div>1:500</div> </div> <div> <div>Drawn</div> <div>M. Sironov</div> <div>Designed</div> <div>L. Cairns</div> <div>Check</div> <div>N. Wardle</div> <div>Scale</div> <div>1:500</div> </div> </div>																					



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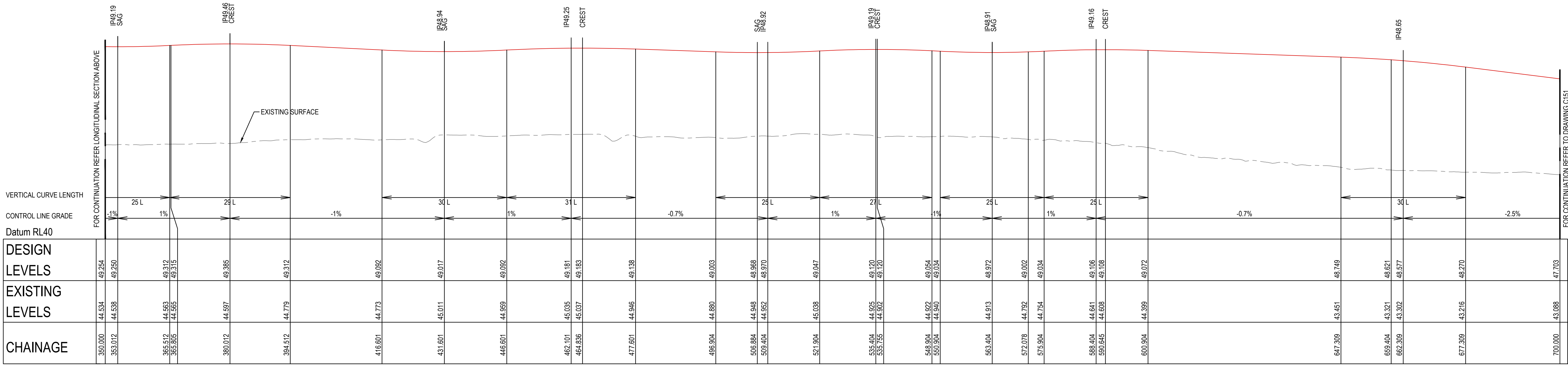
Drawn M.Stimova	Designed L.Caha	Date FEB 2019
Checked N.Wetzlar	Approved A.Francis	Scale @A1
Drawing number 18652_SSDA_C109		Revision 05

[illegible]



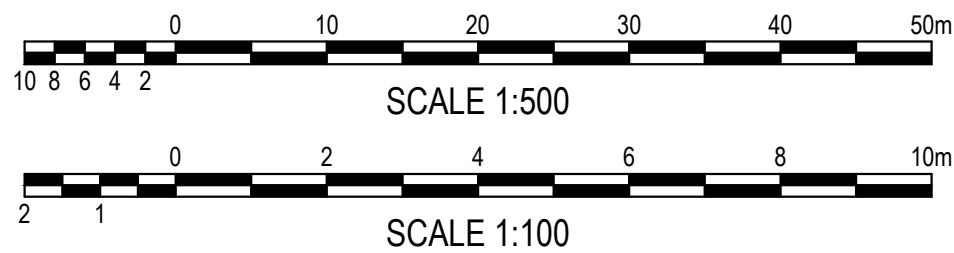
LONGITUDINAL SECTION ROAD 1

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100






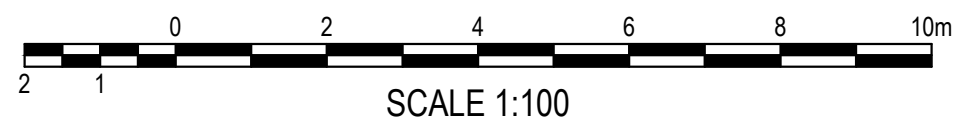
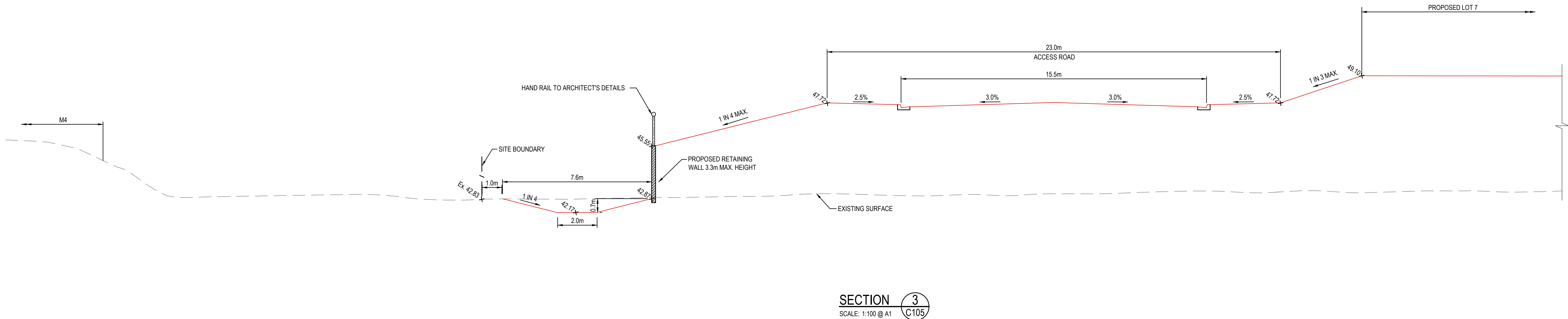
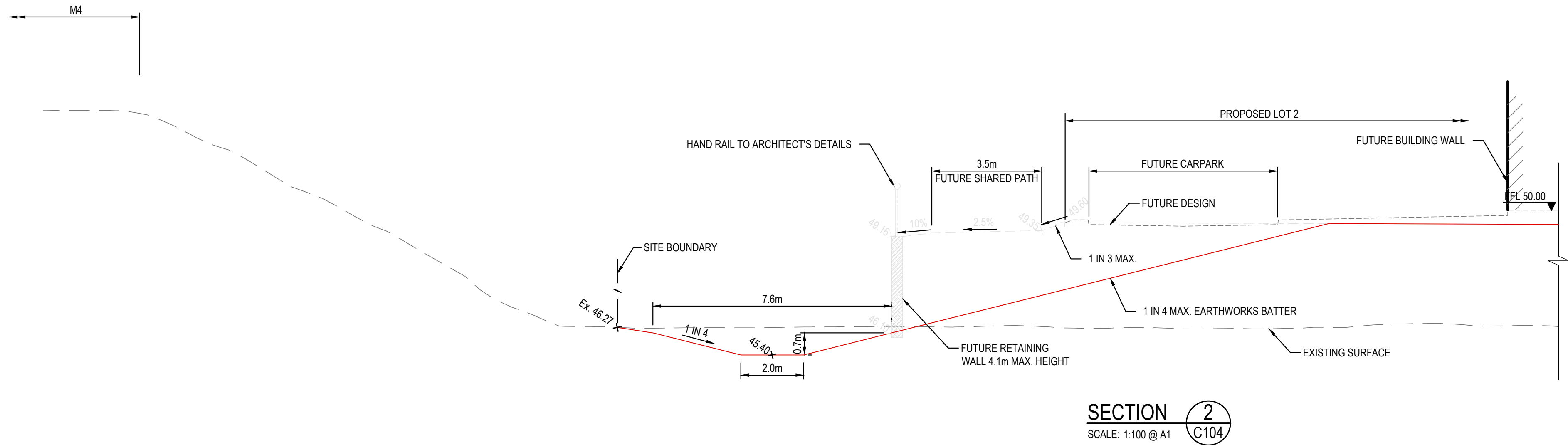
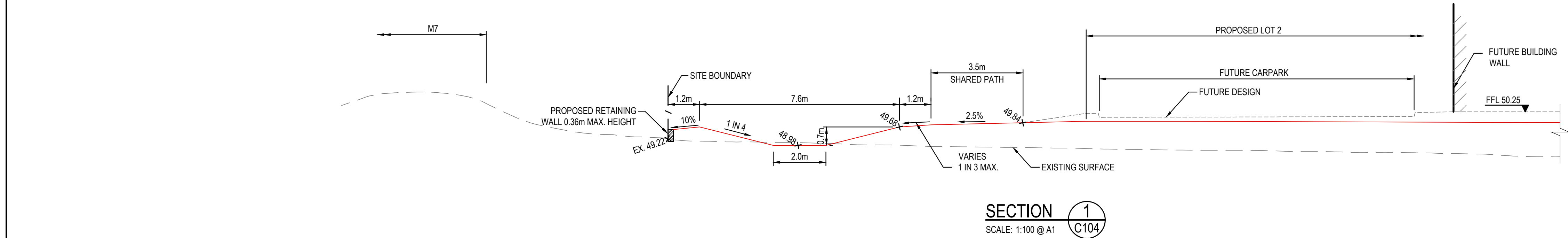
LONGITUDINAL SECTION ROAD 1 - CONTINUATION

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100






ISSUED FOR APPROVAL

 											Client		Level 5, 79 Via Victoria Avenue Chatswood NSW 2067		Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hthconsult.com.au Web www.henryandhymas.com.au			Project		Drawn		Designed		Date					
											Architect		WESTERN SYDNEY PARKLAND TRUST		M.Stimova			L.Caha		FEB 2019									
													NETTLETONTRIBE					Checked		Approved		Scale							
																		N.Wetzlar		A.Francis		AS SHOWN @ A1							



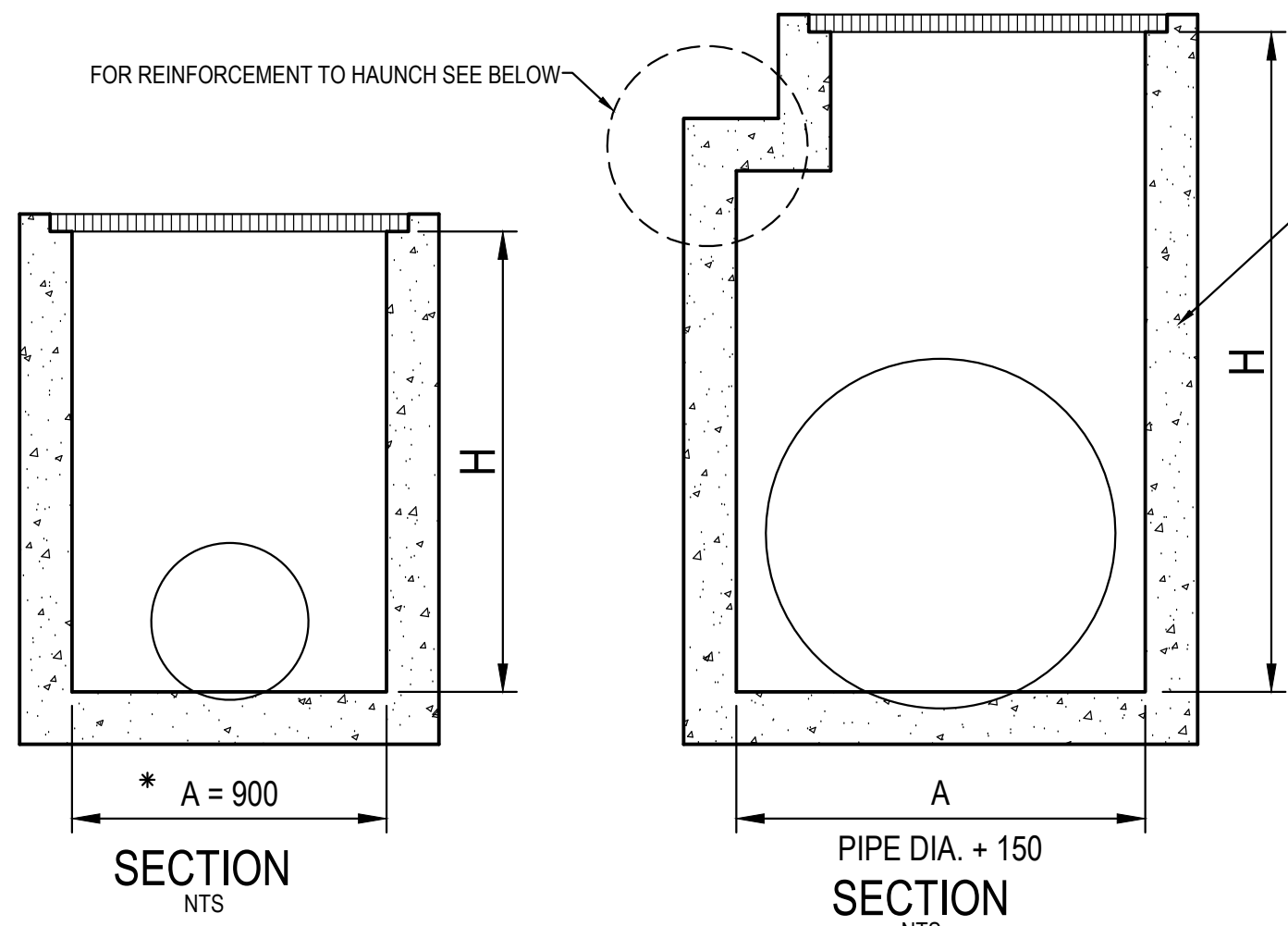
ISSUED FOR APPROVAL

<div><div>Western Sydney Parklands Trust</div></div>																						Client				WESTERN SYDNEY PARKLANDS TRUST				Level 5, 79 Victoria Avenue Chatswood NSW 2067				 Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hhconsult.com.au Web www.henryandhymas.com.au				 henry&hymas				Project				LIGHT HORSE INTERCHANGE BUSINESS HUB EASTERN CREEK, NSW (SSD9667)				Drawn M.Stimova		Designed L.Caha		Date FEB 2019																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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		REVISION		AMENDMENT		DRAWN		DESIGNED		DATE		REVISION		AMENDMENT		DRAWN		DESIGNED		DATE		This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

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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:
- ② SELECT PIT CHAMBER SIZE DEPENDING ON THE PIPE DIAMETERS.
- ③ CHECK PIT CHAMBER SIZE TO SATISFY DEPTH TO INVERT REQUIREMENTS.
CHECK PIT CHAMBER DIMENSIONS TO SATISFY THE SKEW ANGLE IN THE TABLE.

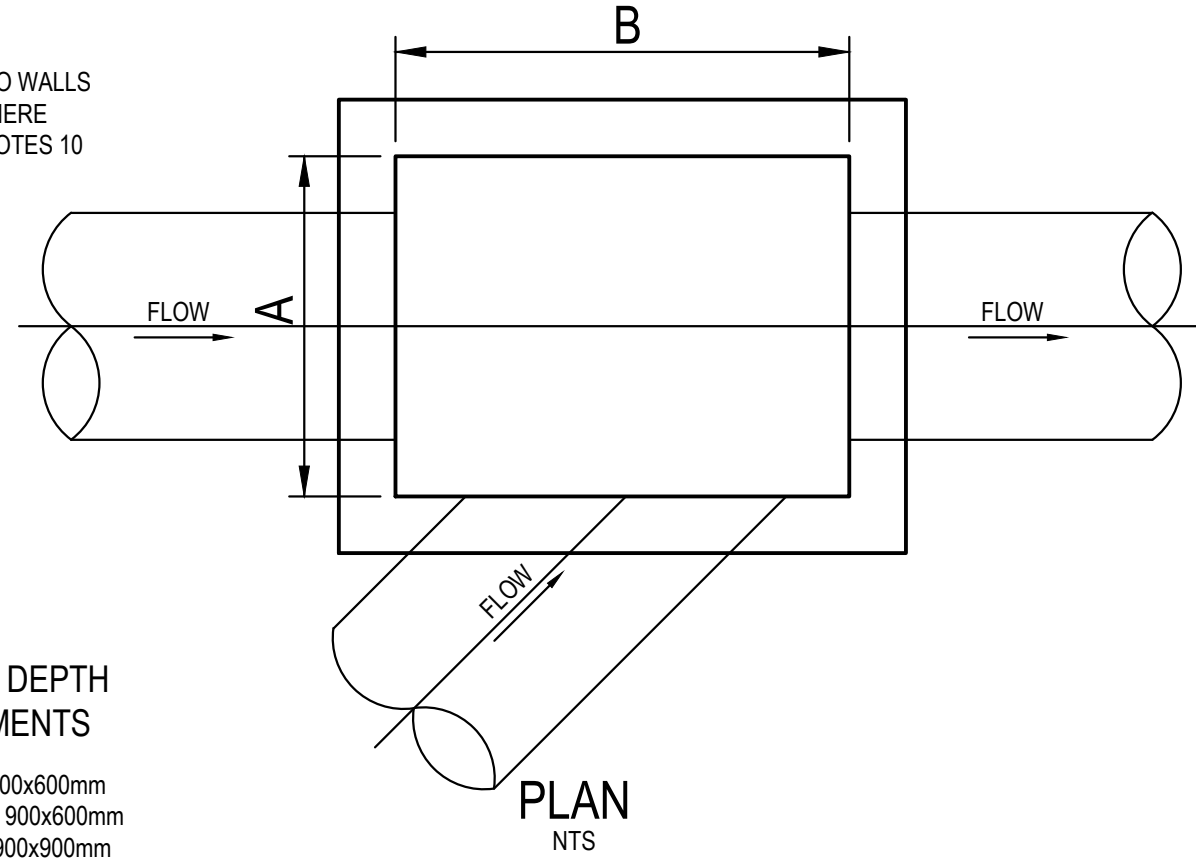


*A = 600 FOR PIPES UP TO 375 DIA.

- ① PIT CHAMBER DIMENSIONS
FOR PIPES UP TO 600 DIA.

② PIT SIZE & DEPTH REQUIREMENTS

H = 0-900mm - AxB = 600x600mm
H = 900-1200mm - AxB = 900x600mm
H = >1200mm - AxB = 900x900mm

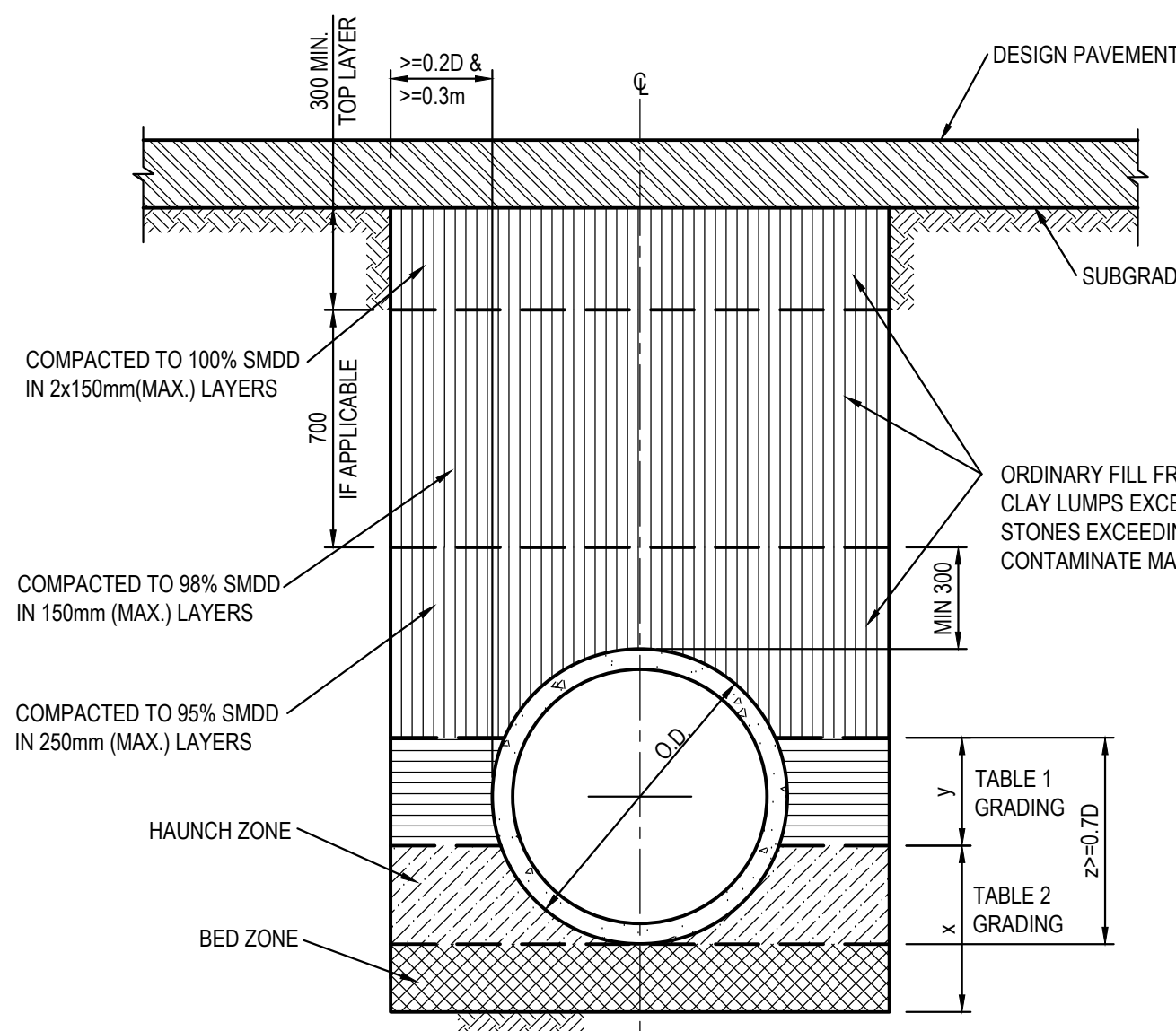
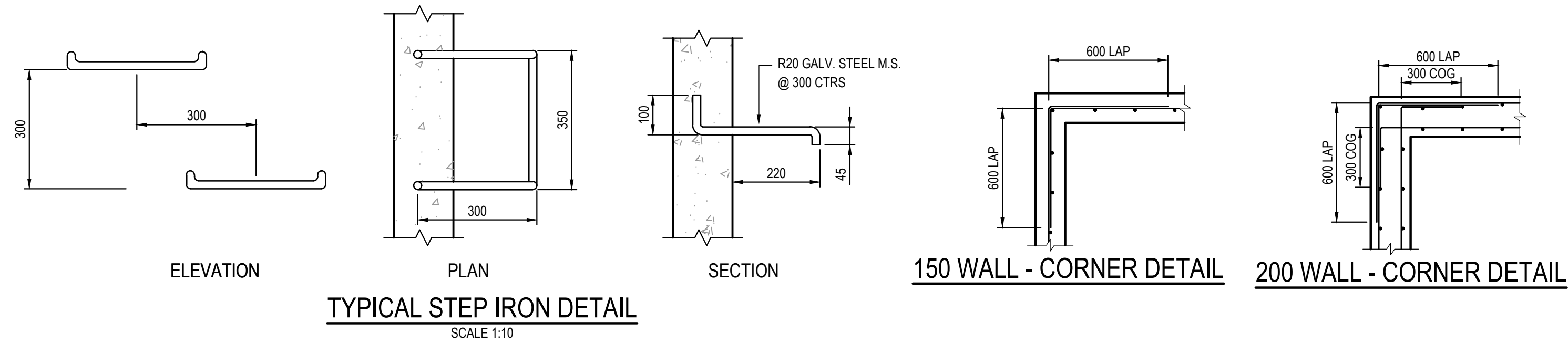


- ③ PIT CHAMBER FOR
SIDE ENTRY ON SKEW

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

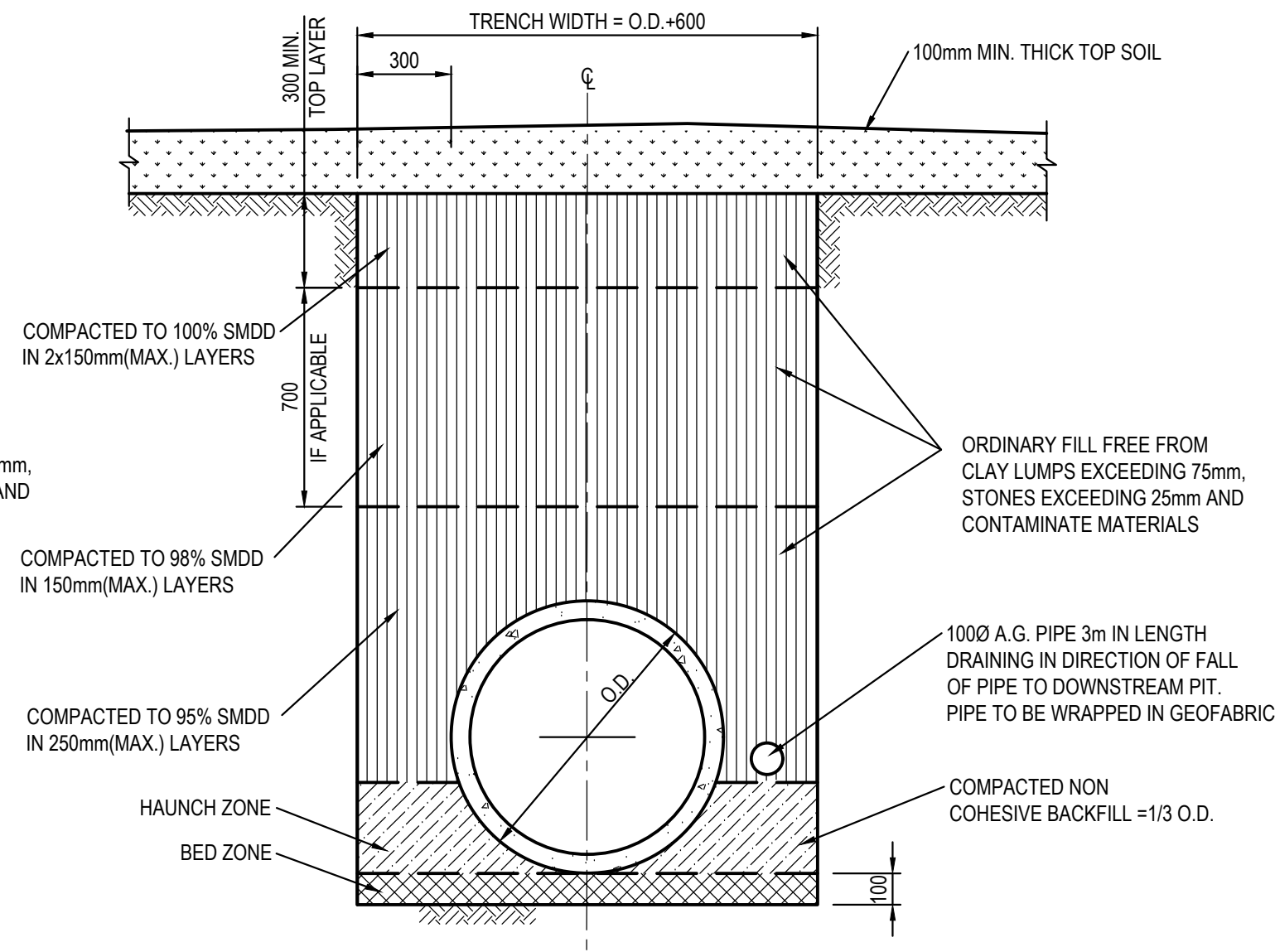
SIEVE SIZE (MM)	WEIGHT PASISNG (%)
19.0	100
2.36	100 TO 50
0.60	90 TO 20
0.30	60 TO 10
0.15	25 TO 0
0.075	10 TO 0

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



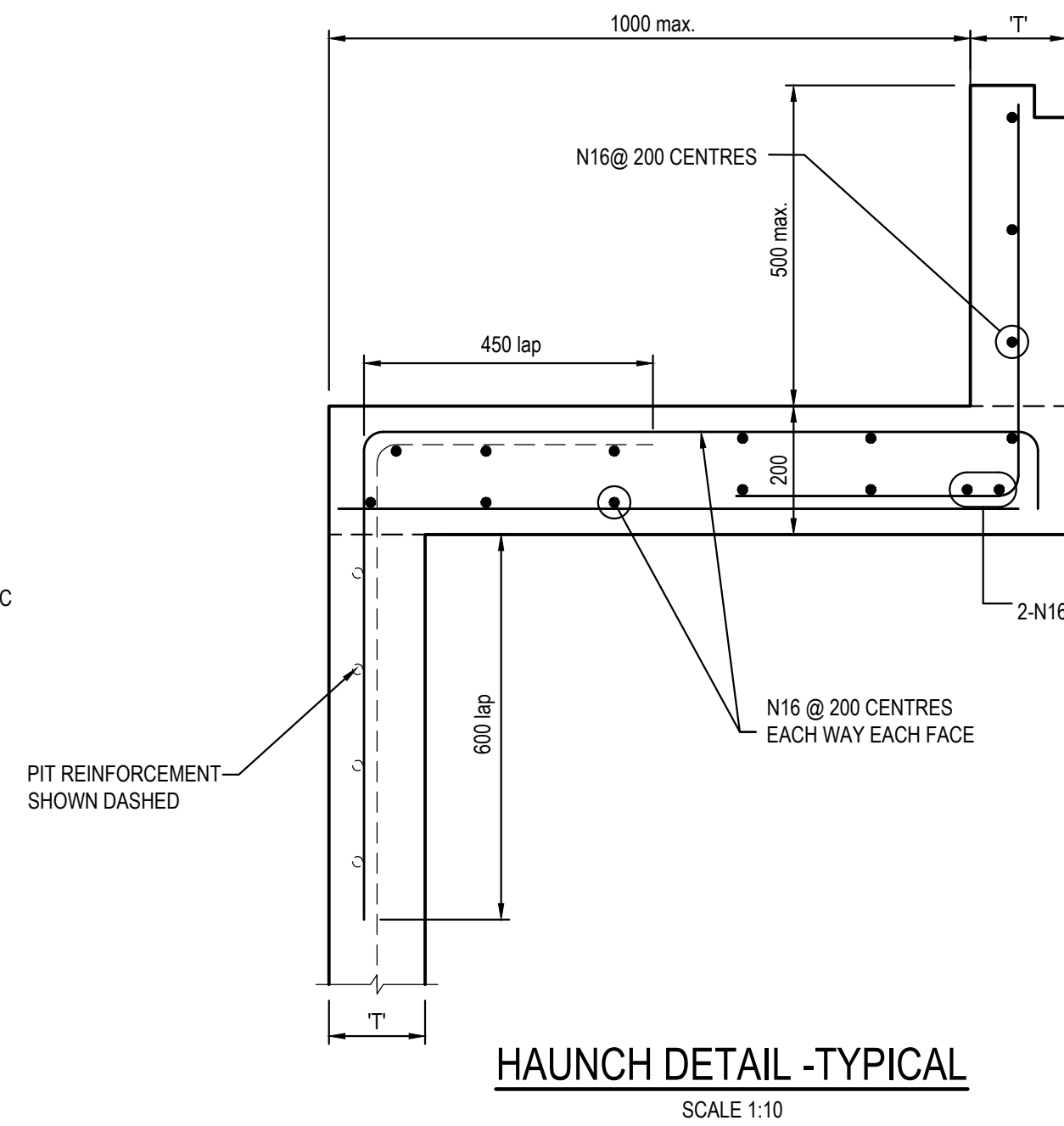
PIPE TRENCH INSTALLATION BENEATH PAVEMENT

(HS SUPPORT TO BE USED UNDER ROADWAY)
SCALE 1:20



PIPE TRENCH INSTALLATION IN LANDSCAPE AREAS

(H1 & H2 SUPPORT)
SCALE 1:20

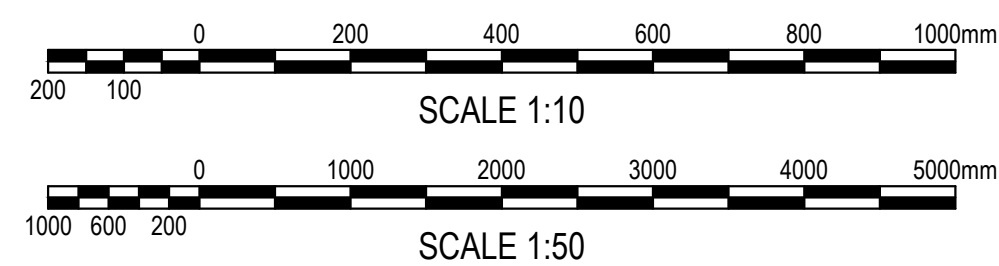
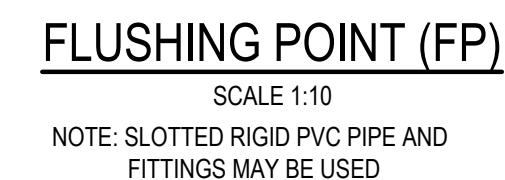
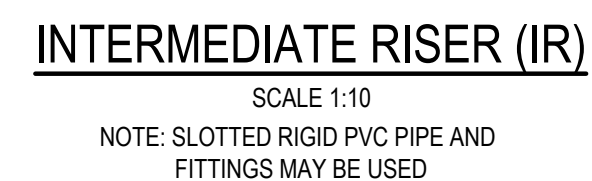


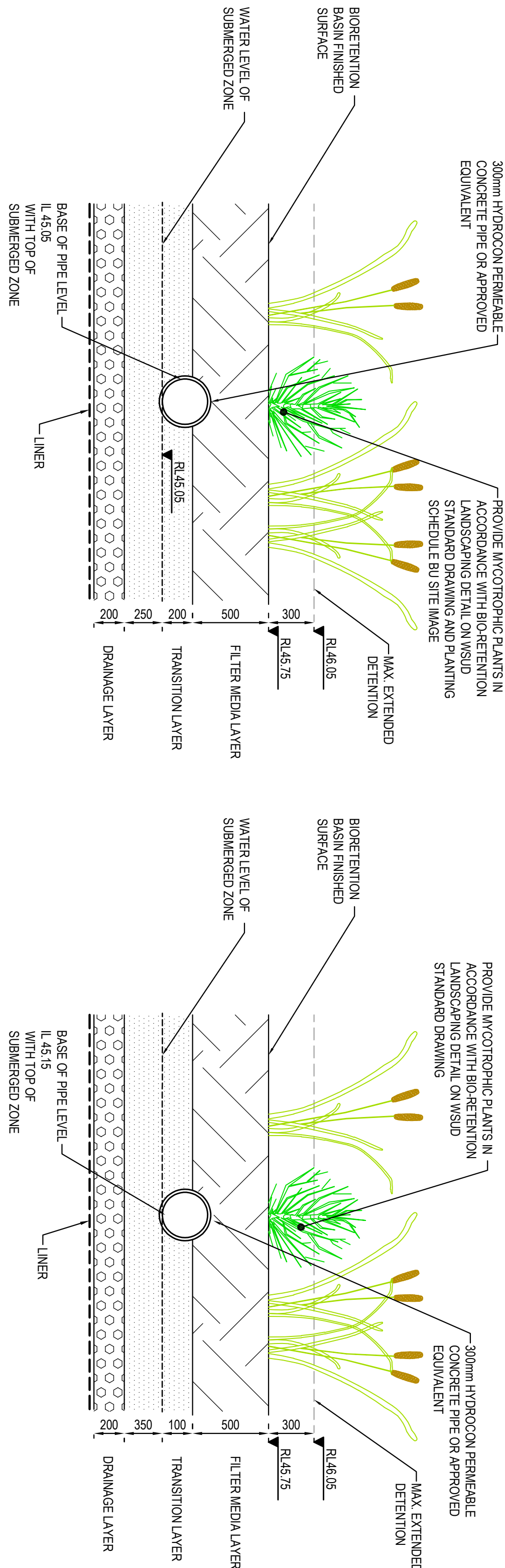
PIT/STRUCTURE NUMBER	LID DESCRIPTION
<div> <div>L-10</div> <div>L-11</div> <div>L-14</div> <div>C-2</div> <div>B-1</div> <div>A-10A</div> <div>A-11A</div> <div>I-1</div> <div>R-1</div> <div>X-1</div> <div>L-14</div> </div> <div> <div>R-2</div> <div>M-1</div> <div>M-2</div> <div>S-1</div> <div>S-2</div> <div>I-1</div> <div>T-1</div> <div>T-2</div> <div>P-5</div> <div>P-6</div> <div>P-7</div> </div> <div> <div>P-8</div> <div>O-5</div> <div>O-6</div> <div>O-7</div> <div>O-1</div> <div>O-3</div> <div>O-4</div> <div>P-1</div> <div>P-3</div> <div>P-4</div> <div>Y-1</div> </div>	ON GRADE KERB INLET PIT WITH 1.8m LINTEL AND HEAVY DUTY GRATED LID CLASS "D" IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL REQUIREMENTS.
<div> <div>L-12</div> <div>U-1</div> <div>L-13</div> <div>Q-1</div> <div>C-3</div> <div>C-4</div> <div>C-1</div> <div>K-1</div> <div>J-1</div> <div>A-9A</div> <div>E-2</div> </div> <div> <div>A-12</div> <div>H-1</div> <div>A-13</div> <div>G-1</div> <div>A-14</div> <div>F-1</div> <div>A-15</div> <div>E-1</div> <div>A-16</div> <div>N-1</div> <div>T-3</div> </div> <div> <div>P-2</div> <div>O-2</div> </div>	SAG KERB INLET PIT WITH 1.8m LINTEL AND HEAVY DUTY GRATED LID CLASS "D" IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL REQUIREMENTS.
<div> <div>Z-2</div> <div>Z-4</div> <div>Z-5</div> <div>Z-6</div> <div>Z-10</div> <div>A-3B</div> <div>A-4B</div> <div>A-10B</div> <div>A-11B</div> <div>A-1</div> <div>A-12B</div> </div> <div> <div>A-5B</div> <div>A-6B</div> <div>A-7B</div> <div>A-8B</div> <div>A-9B</div> </div>	SEALED JUNCTION PIT WITH 900 X 900 HINGED HEAVY DUTY CLASS "D" CONCRETE LID IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL REQUIREMENTS.
<div> <div>WQ-9</div> <div>WQ-10</div> <div>WQ-11</div> <div>WQ-12</div> <div>WQ-3</div> <div>M-3</div> </div>	SEALED JUNCTION PIT WITH 900 X 900 HINGED LIGHT DUTY CLASS "B" CONCRETE LID IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL REQUIREMENTS.
<div> <div>A-3A</div> <div>A-4A</div> <div>A-5A</div> <div>A-6A</div> <div>A-7A</div> <div>A-8A</div> <div>L-7</div> <div>L-8</div> </div> <div> <div>L-9</div> </div>	SURFACE INLET PIT WITH 900 X 900 HINGED HEAVY DUTY CLASS "D" GRATED ACCESS LID IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL REQUIREMENTS.
<div> <div>WQ-1</div> </div>	STORMWATER QUALITY IMPROVEMENT DEVICE: GPT UNIT - ROCLA CDS 3030. CUSTOM TRASH RACK AND SILT TRAP. REFER C201
<div> <div>WQ-2</div> </div>	STORMWATER QUALITY IMPROVEMENT DEVICE: GPT UNIT - ROCLA CDS 2028
<div> <div>Z-12</div> </div>	SURFACE INLET PIT WITH 1200x1200 LIGHT DUTY SURCHARGE STYLE GRATE IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL REQUIREMENTS.
<div> <div>Z-3</div> <div>Z-7</div> <div>Z-8</div> <div>Z-9</div> </div>	SEALED SADDLE PIT WITH 900 x 900 HINGED HEAVY DUTY CLASS "D" CONCRETE LID. PIT RISERS TO BE CONNECTED TO Ø1500 STORMWATER LINE. PIT TO BE FINISHED IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL REQUIREMENTS.
<div> <div>WQ-13</div> </div>	SURFACE INLET PIT WITH 1200x1200 HINGED LIGHT DUTY CLASS "B" SURCHARGE STYLE LID IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL REQUIREMENTS. REFER TO CREEK DESIGN REPORT FROM H&H WATER ENGINEERING
<div> <div>L-5</div> <div>L-6</div> <div>L-3</div> <div>L-4</div> <div>L-2</div> </div>	SURFACE INLET PIT TO BE FINISHED AT BULK EARTHWORKS LEVEL. PITTS TO BE RAISED AND FINISHED UNDER LOT 7 WORKS. PIT TO BE FINISHED WITH 900 X 900 HEAVY DUTY CLASS "D" LID
<div> <div>V-1</div> <div>V-2</div> <div>V-3</div> <div>V-4</div> <div>V-5</div> </div>	SURFACE INLET PIT WITH 450 x 450 HEAVY DUTY "CLASS D" GRADED LID IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL REQUIREMENTS.
<div> <div>WQ-13</div> <div>WQ-14</div> <div>WQ-15</div> <div>WQ-16</div> </div>	STORMWATER QUALITY IMPROVEMENT DEVICE: REFER NOTE ON PLAN

1. FOR SPECIFICATION OF PIT LIDS WITHIN OSD AND BIO-RETENTION BASINS, REFER TO DRAWING C101-C109 & C240-C241
2. ALL PIT LIDS TO BE CONSTRUCTED IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL REQUIREMENTS AND WSUD STANDARD DRAWINGS.



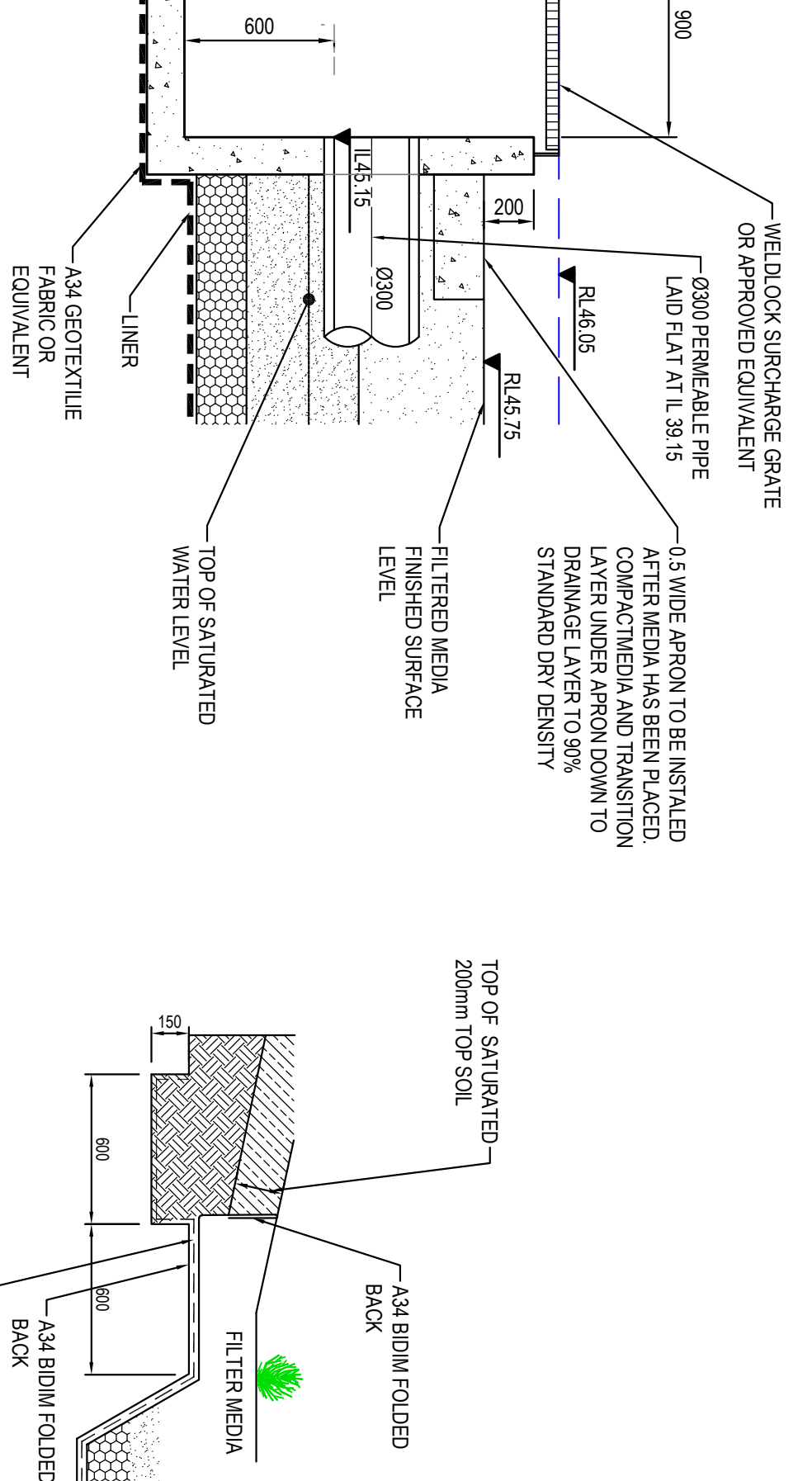
NOTE
UNLESS SPECIFICALLY NOTED SUBSOIL DRAIN TO BE PROVIDED AROUND ALL
KERB WITH SURFACE GRADING TOWARDS THE ROAD

[illegible]



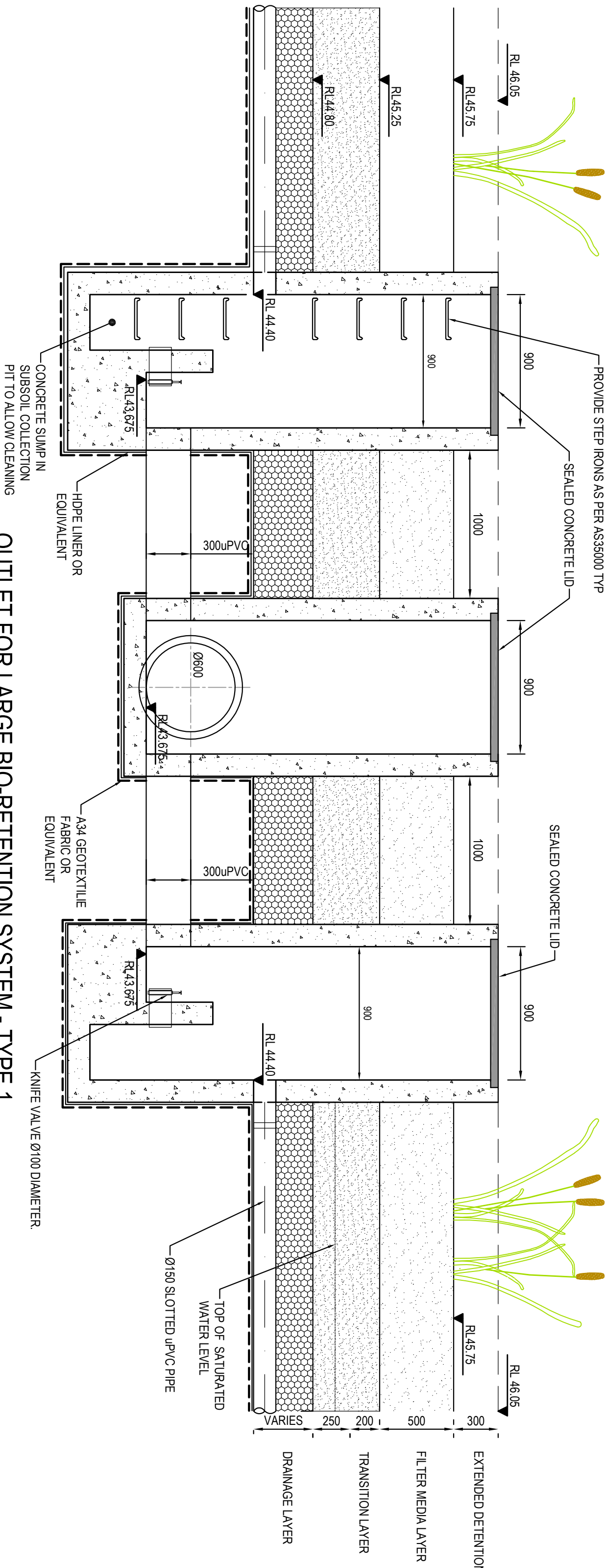
BIO-RETENTION FILTER PROFILE - SOUTH

BIO-RETENTION FILTER PROFILE - NORTH



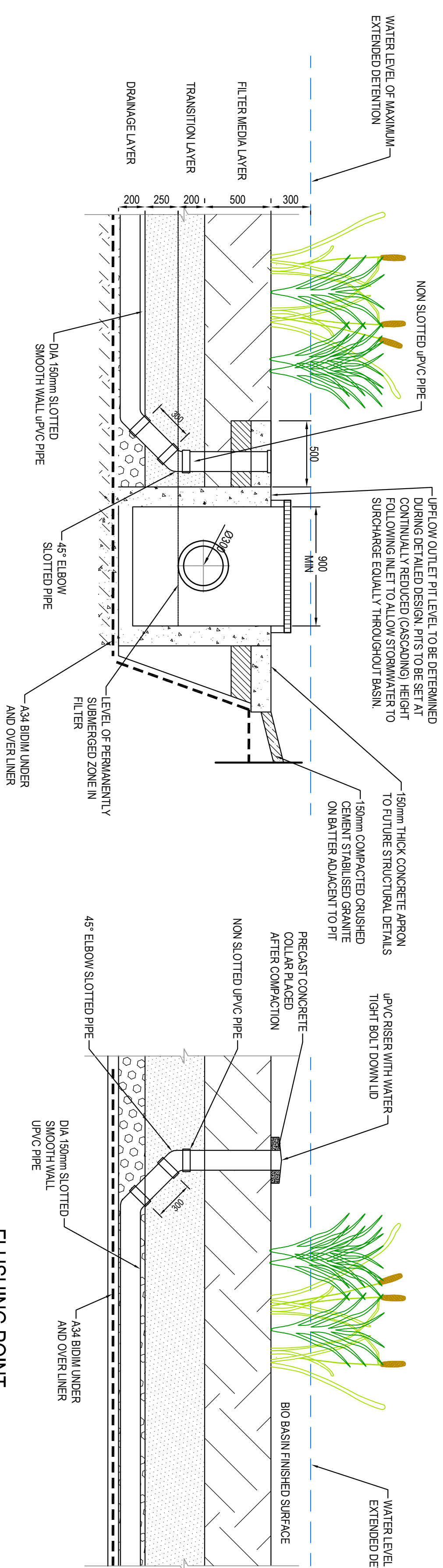
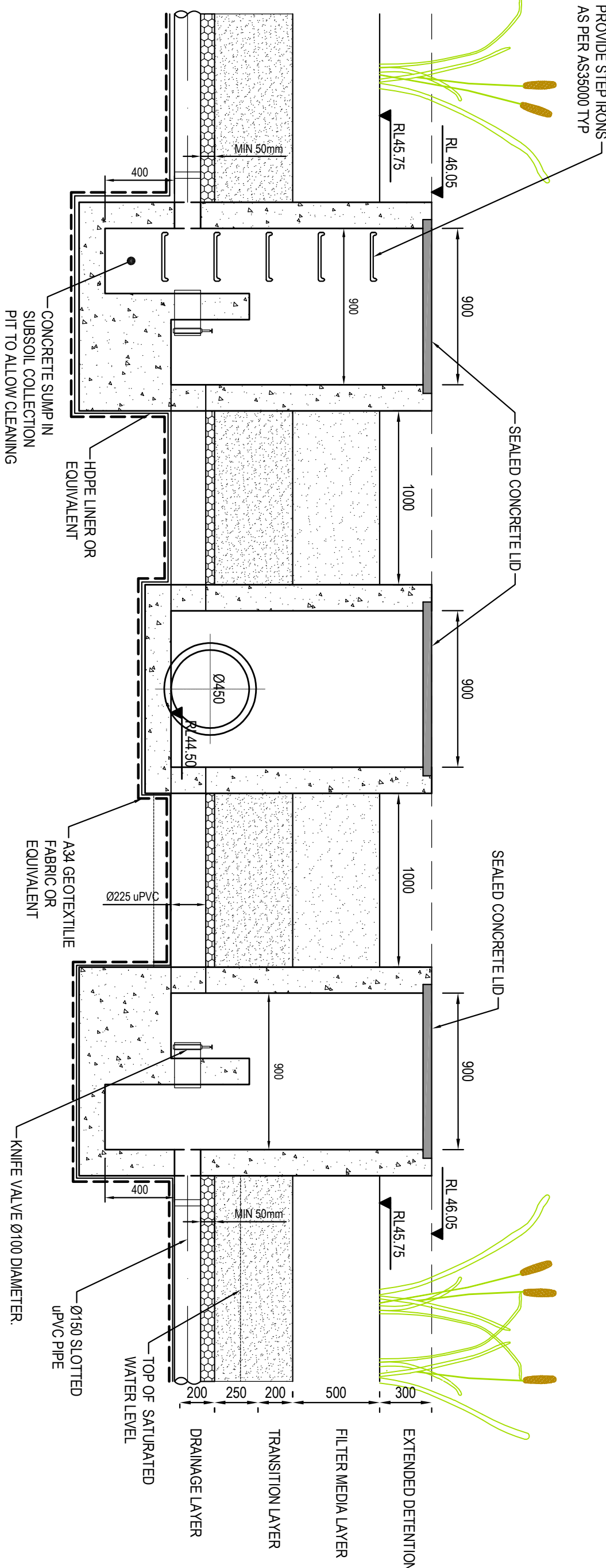
BIO-RETENTION SYSTEM INLET PIT - TYPE 1

BIO-RETENTION LINER DETAIL



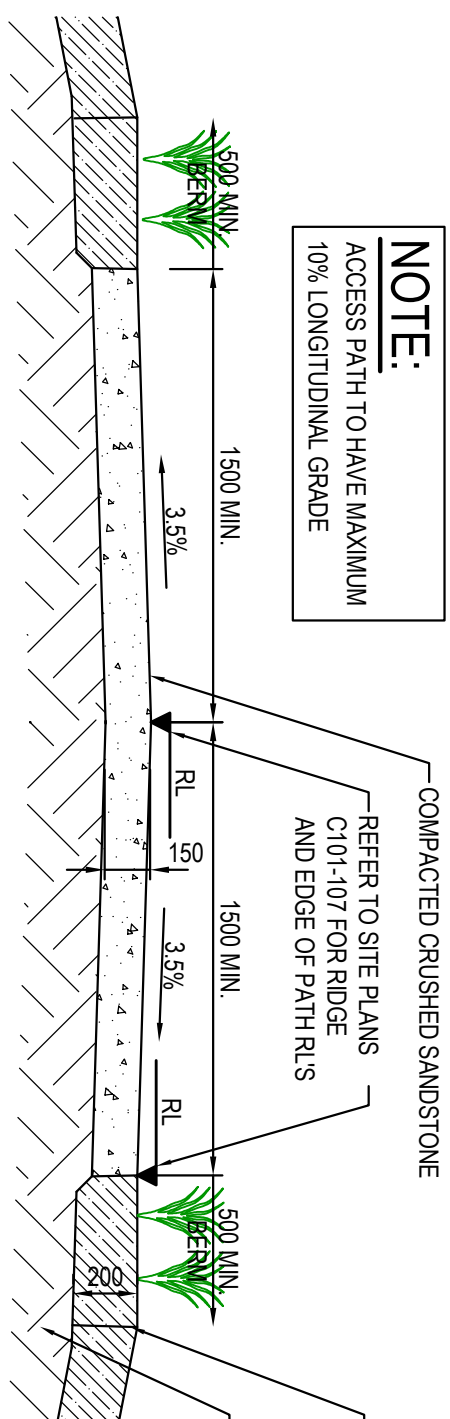
OUTLET FOR LARGE BIO-RETENTION SYSTEM - TYPE 1

OUTLET FOR LARGE BIO-RETENTION SYSTEM - TYPE 2



TYPICAL UPFLOW OUTLET PIT LOCATED IN BIORETENTION BASIN

FLUSHING POINT

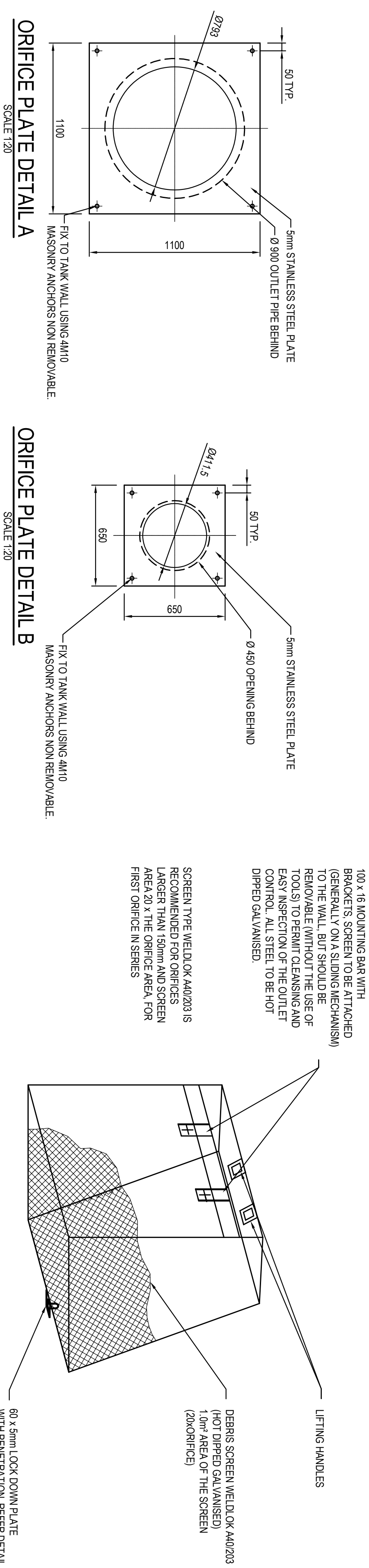
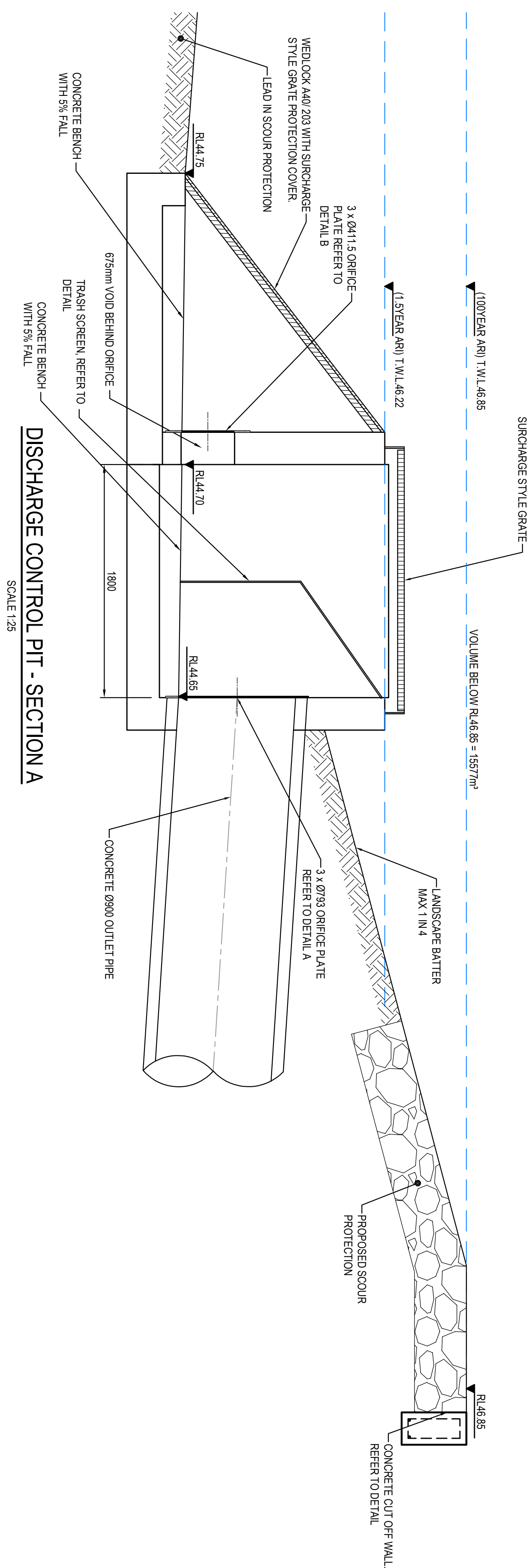
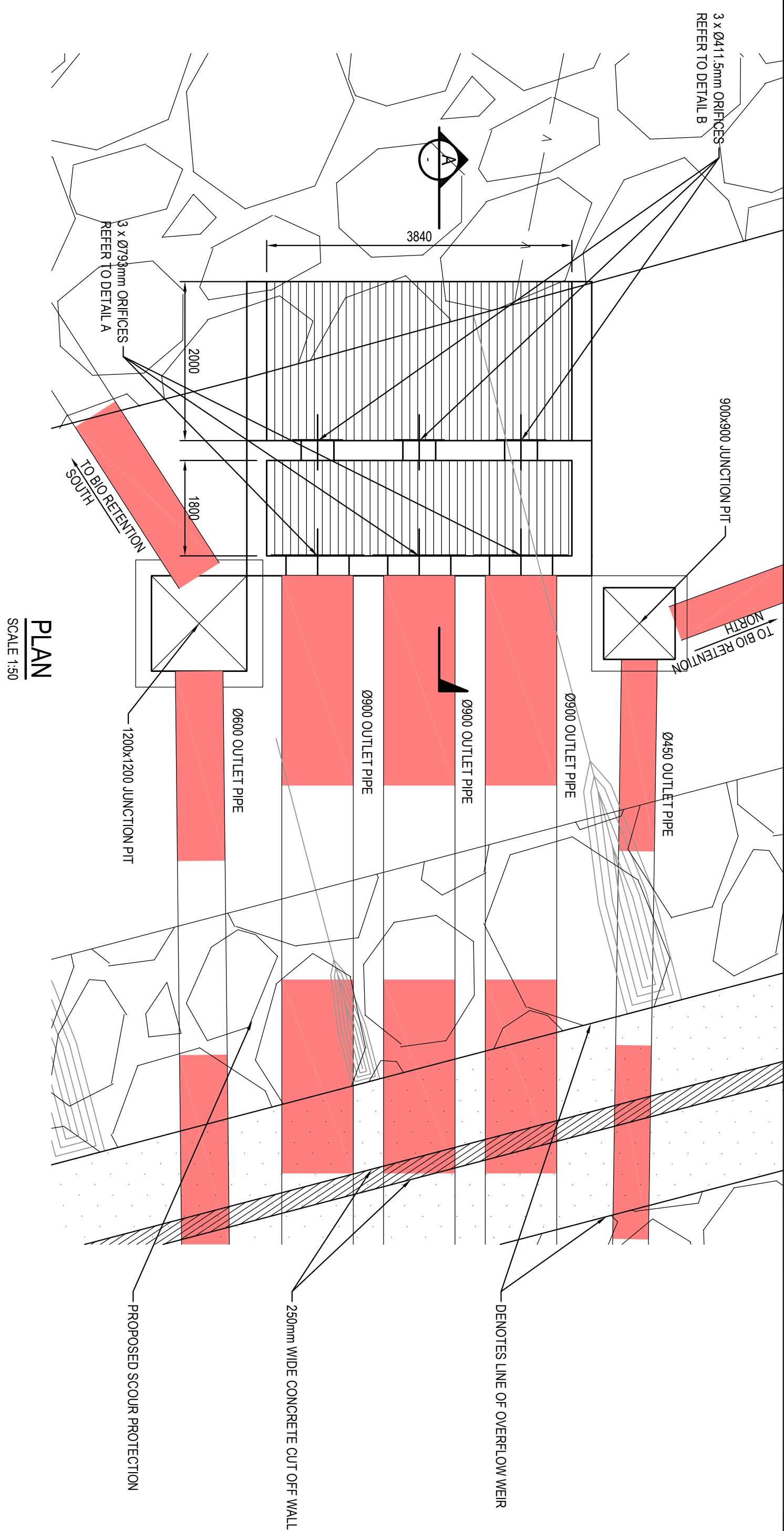



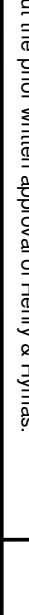

MAINTENANCE ACCESS TRACK

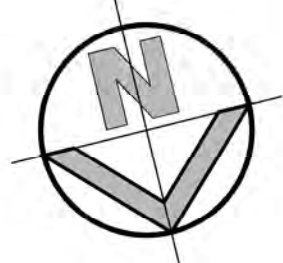


ISSUED FOR APPROVAL

				Client: WESTERN SYDNEY PARKLANDS TRUST			
05	ISSUED FOR APPROVAL	K	WV	21.10.2020			
04	ISSUED FOR APPROVAL	K	WV	11.12.2019			
03	ISSUED FOR APPROVAL	WS	WV	09.06.2019			
02	ISSUED FOR APPROVAL	K	WV	03.06.2019			
01	PRELIMINARY	WS	WV	29.02.2019			
REVISION				DESIGNED	DATE	REVISION	DESIGNED
AMENDMENT				AMENDMENT	DATE	AMENDMENT	DATE
Project: LIGHT HORSE INTERCHANGE BUSINESS HUB EASTERN CREEK, NSW (SSD9667)				Drawn: M Simova	Checked: L Colla	Designed: FEB 2019	Scale: A4
Title: BASIN DETAILS SHEET 1 OF 2				Drawn: M Simova	Checked: L Colla	Designed: FEB 2019	Scale: A4
Drawing number: 18652_SSDA_C240				Drawn: M Simova	Checked: L Colla	Designed: FEB 2019	Scale: A4
Revision: 05				Drawn: M Simova	Checked: L Colla	Designed: FEB 2019	Scale: A4



									
05	ISSUED FOR APPROVAL	IK	NW	21.01.2020					
04	ISSUED FOR APPROVAL	IK	NW	13.12.2019					
03	ISSUED FOR APPROVAL	MS	NW	09.04.2019					
02	ISSUED FOR CO-ORDINATION	IK	NW	05.04.2019					
01	PRELIMINARY	MS	NW	29.03.2019					
	REVISION		DESIGNED	DATE					
			APPROVED						
<p>Client: WESTERN SYDNEY PARKLANDS TRUST</p> <p>NETTLETONTRIBE</p>					<p>Level 5, 110-112 Harris Avenue Chesham NSW 2067</p> <p>Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 email@hcnconsult.com.au Web: www.hcnconsult.com.au</p>				
<p>This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.</p>									
									
<p>Basin Details</p> <p>SHEET 2 OF 2</p>					<p>Basin Details</p> <p>SHEET 2 OF 2</p>				
<p>Project: LIGHT HORSE INTERCHANGE BUSINESS HUB</p> <p>EASTERN CREEK, NSW (SSD9667)</p>					<p>Drawn: L Simova</p> <p>Project: FEB 2019</p>				
<p>Checked: N Weir</p> <p>Approved: A Franks</p>					<p>Scale: A1</p> <p>AS NOTED</p>				
<p>Drawing number: 18652_SSDA_C241</p>					<p>Revision: 05</p>				



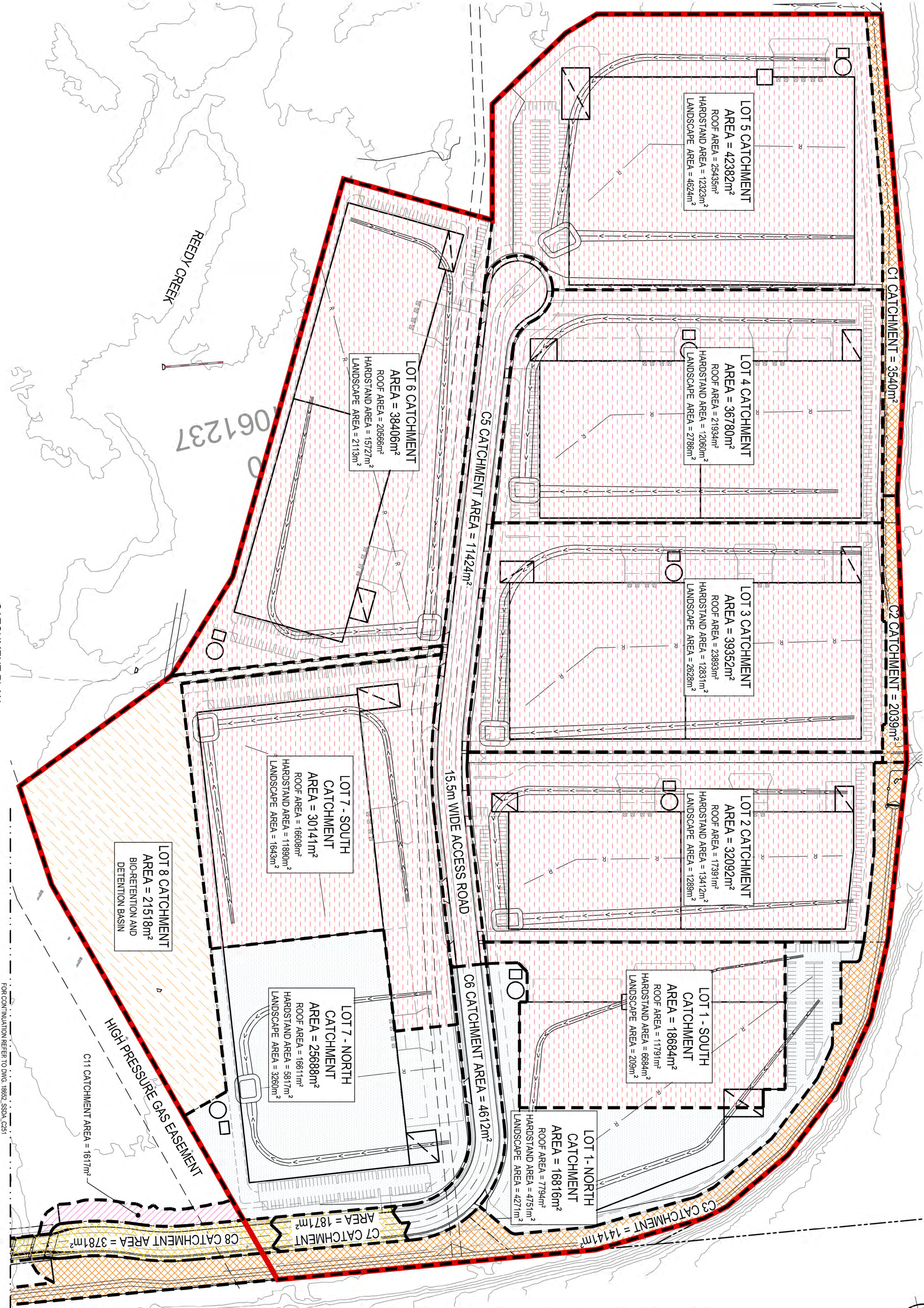
TOTAL AREA
DRAINING NORTH
AREA: 47116m²

TOTAL AREA
DRAINING SOUTH
AREA: 249261m²

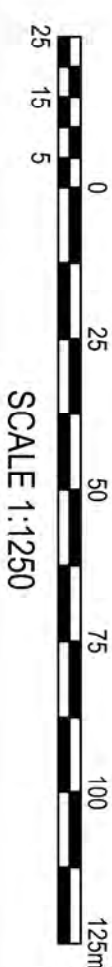
BIO-RETENTION AND
DETENTION BASIN
AREA: 21518m²



CATCHMENT AREA
AREA: 19737m²

AREA CONSIDERED
FOR OSD
TOTAL AREA: 336294m²
BYPASS: 18128m²



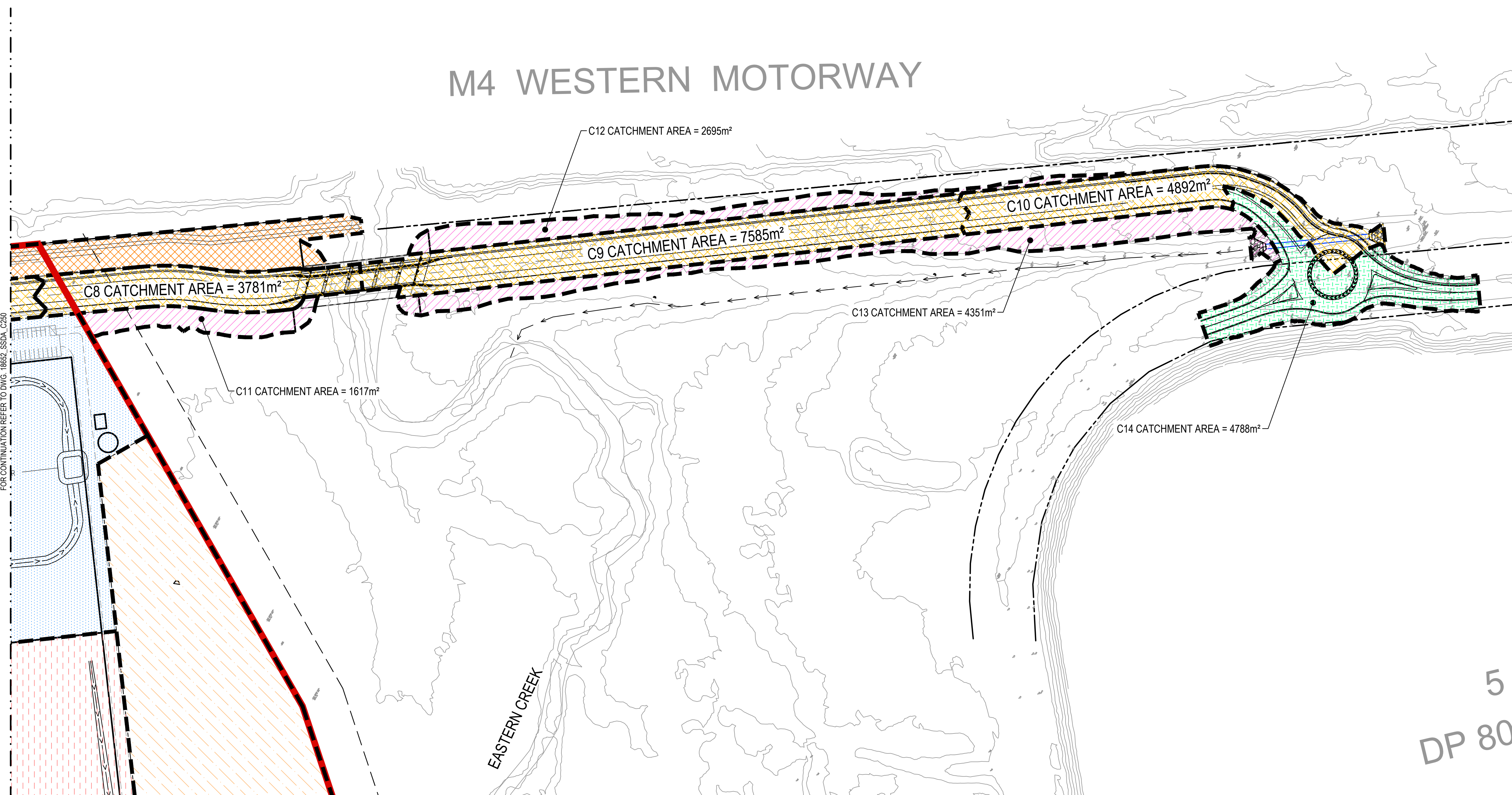
CATCHMENT PLAN
SCALE 1:1250



 Western Sydney Parklands Trust							
06	ISSUED FOR APPROVAL	K	WV	23.03.2020			
04	ISSUED FOR APPROVAL	K	WV	13.12.2019			
03	ISSUED FOR APPROVAL	NS	WV	09.06.2019			
02	ISSUED FOR COORDINATION	K	WV	08.06.2019			
01	PRELIMINARY	K	WV	28.02.2019			
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN
WESTERN SYDNEY PARKLANDS TRUST				Client			
NETTLETONTRIBE				Project			
Level 5, 200 Victoria Avenue, Chesham NSW 2567				LIGHT HORSE INTERCHANGE BUSINESS HUB			
Telephone +61 2 9417 8400				EASTERN CREEK, NSW (SSD99667)			
Email enquire@nettletontribe.com.au				CATCHMENT PLAN			
www.nettletontribe.com.au				Drawing number			
henry thynas				18652_SSDA_C250			
The drawing and design remains the property of Henry & Thynas and may not be copied in whole or in part without the prior written approval of Henry & Thynas.				Drawn			
				M. Simova			
				L. Colla			
				Approved			
				A. Francis			
				Scale 8A1			
				1:1250			
				Revision			
				05			

ISSUED FOR APPROVAL

FOR CONTINUATION REFER TO DWG: 18652_SSDA_C251

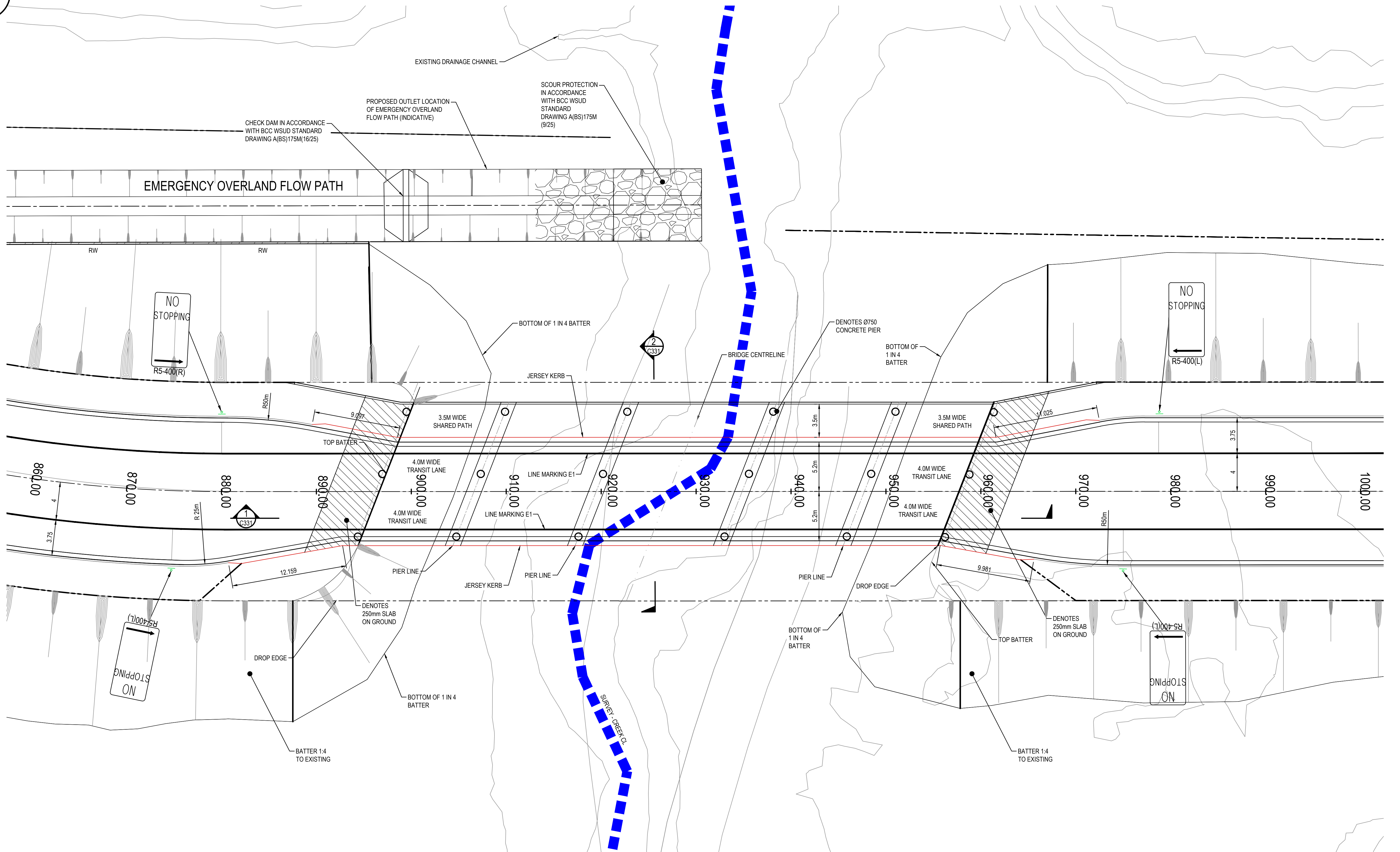


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DP 804

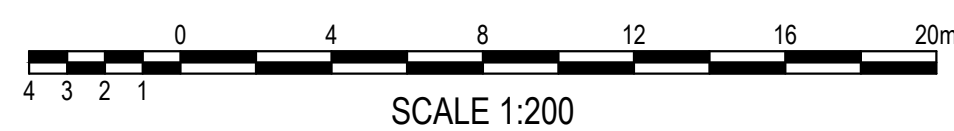
SCALE 1:1250

FERRERS ROAD
CATCHMENT AREA
AREA: 4788m²

[illegible]

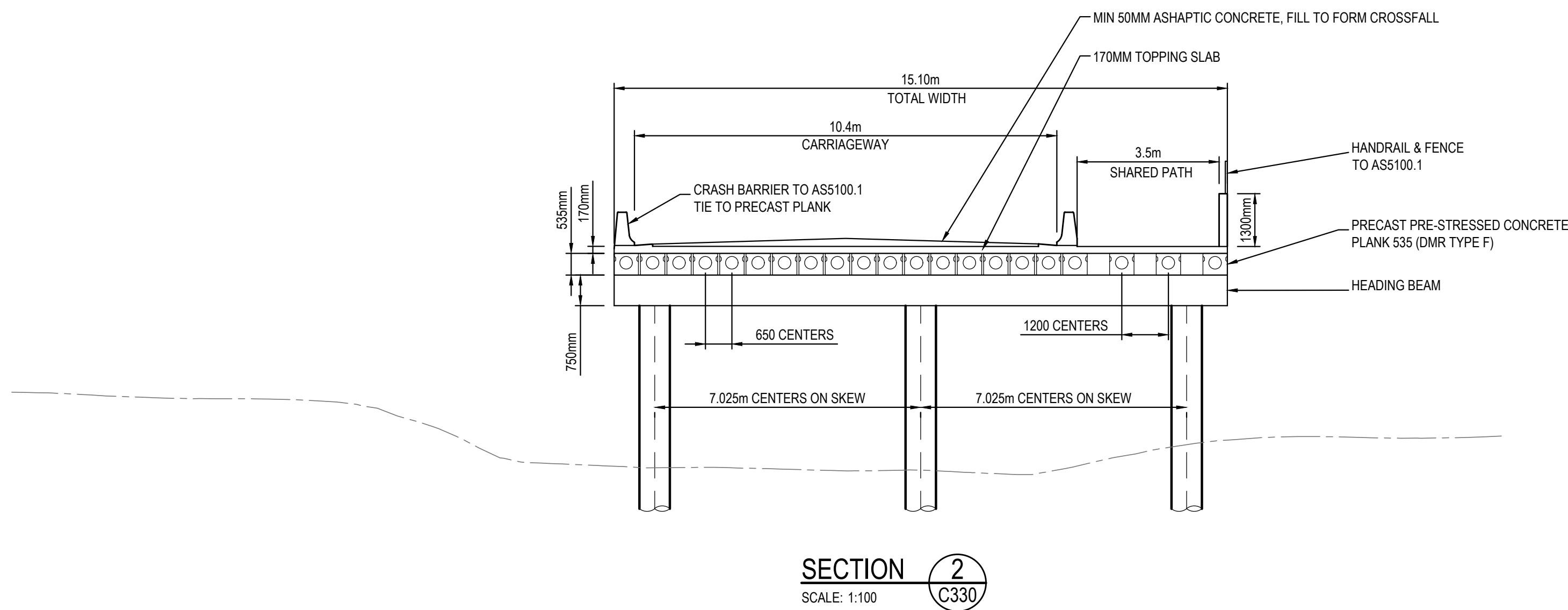
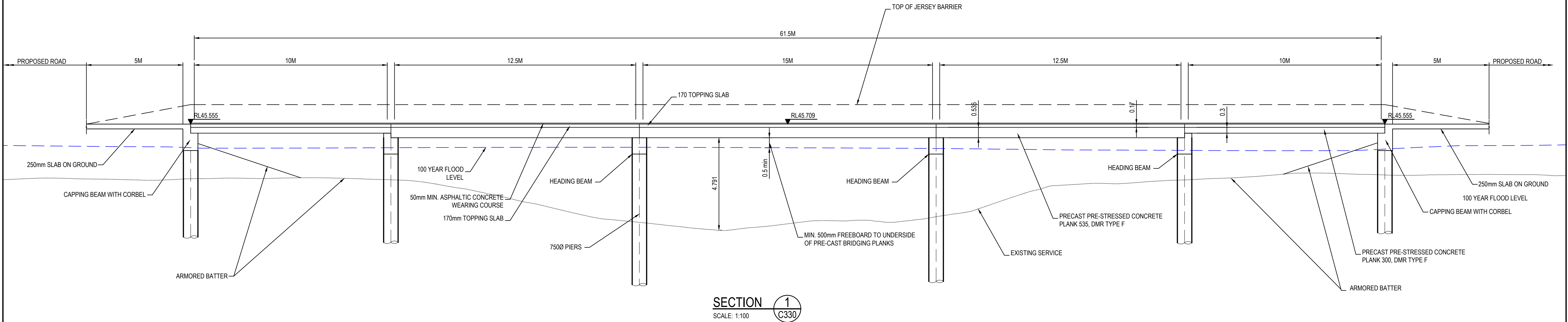


SCALE 1:200




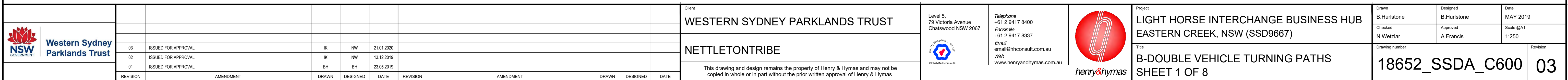
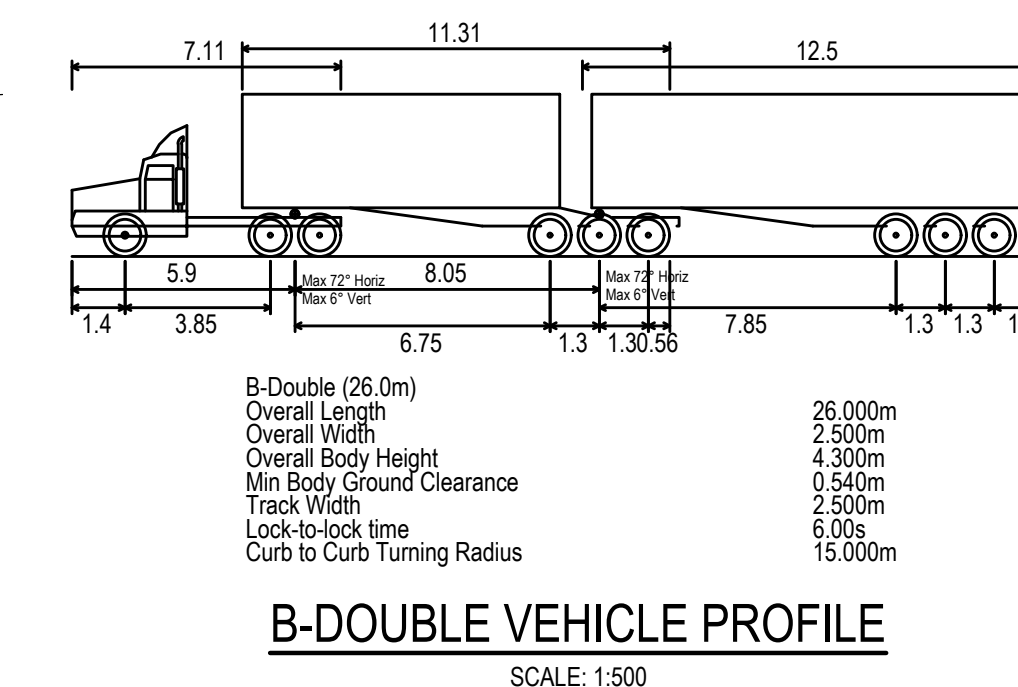
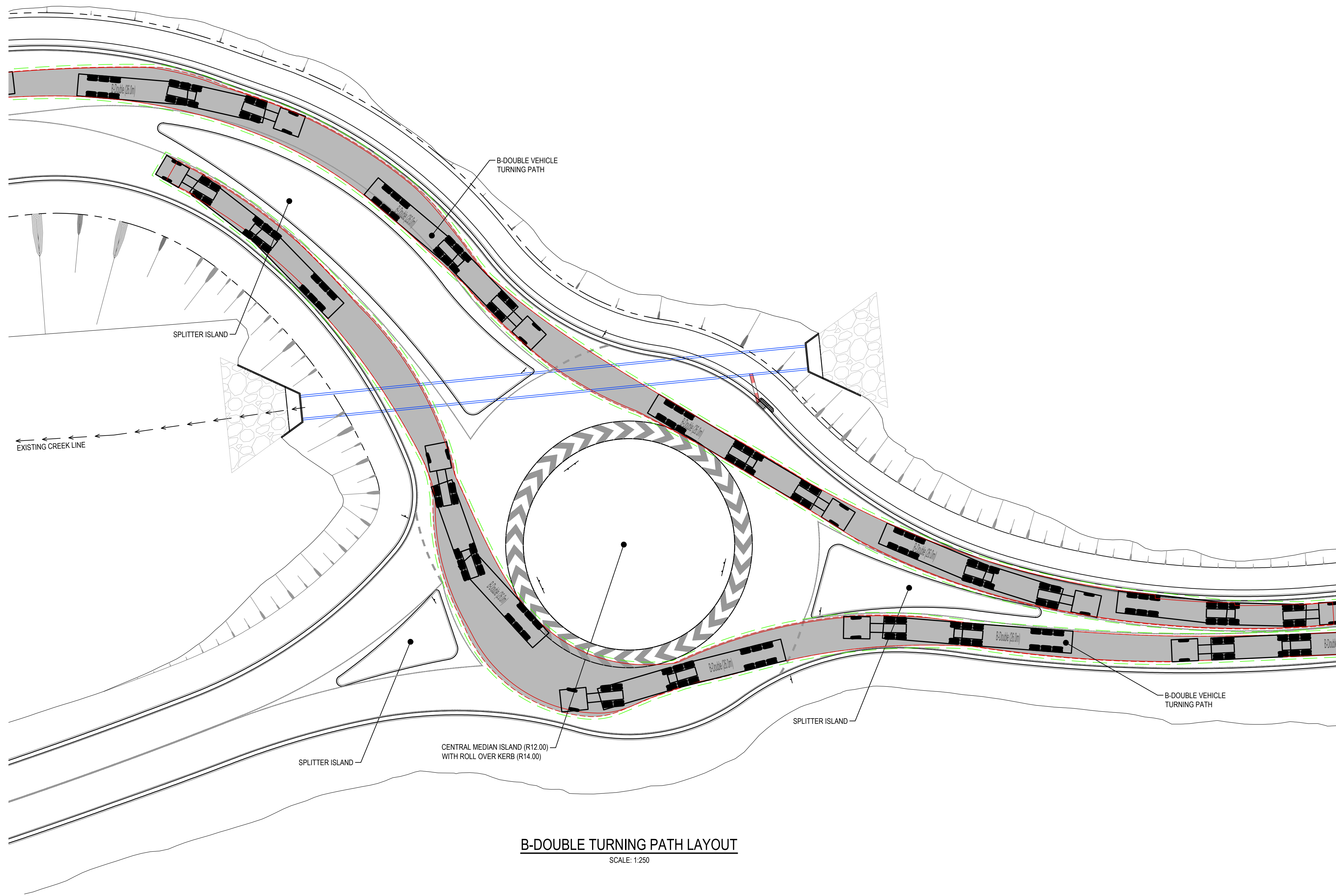
BUSINESS HUB (*)	Drawn	Designed	Date
	M.Stimova	L.Caha	FEB 2019
	Checked	Approved	Scale (A1)
	N.Wetzlar	A.Francis	1:200
Drawing number			Revision
18652_SSDD_C330			05

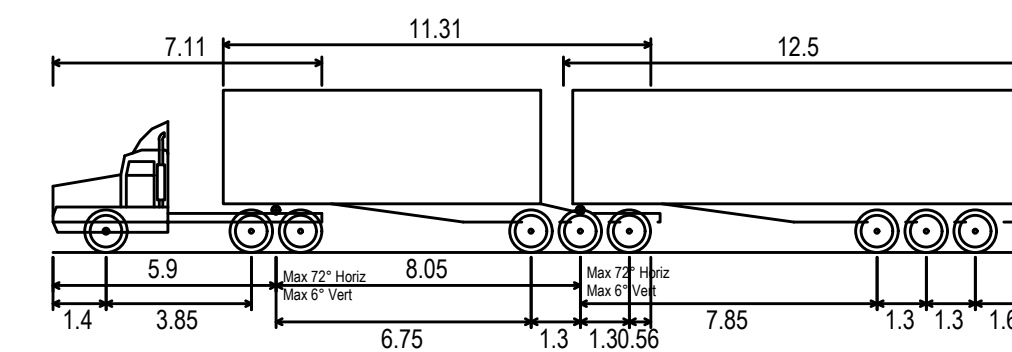
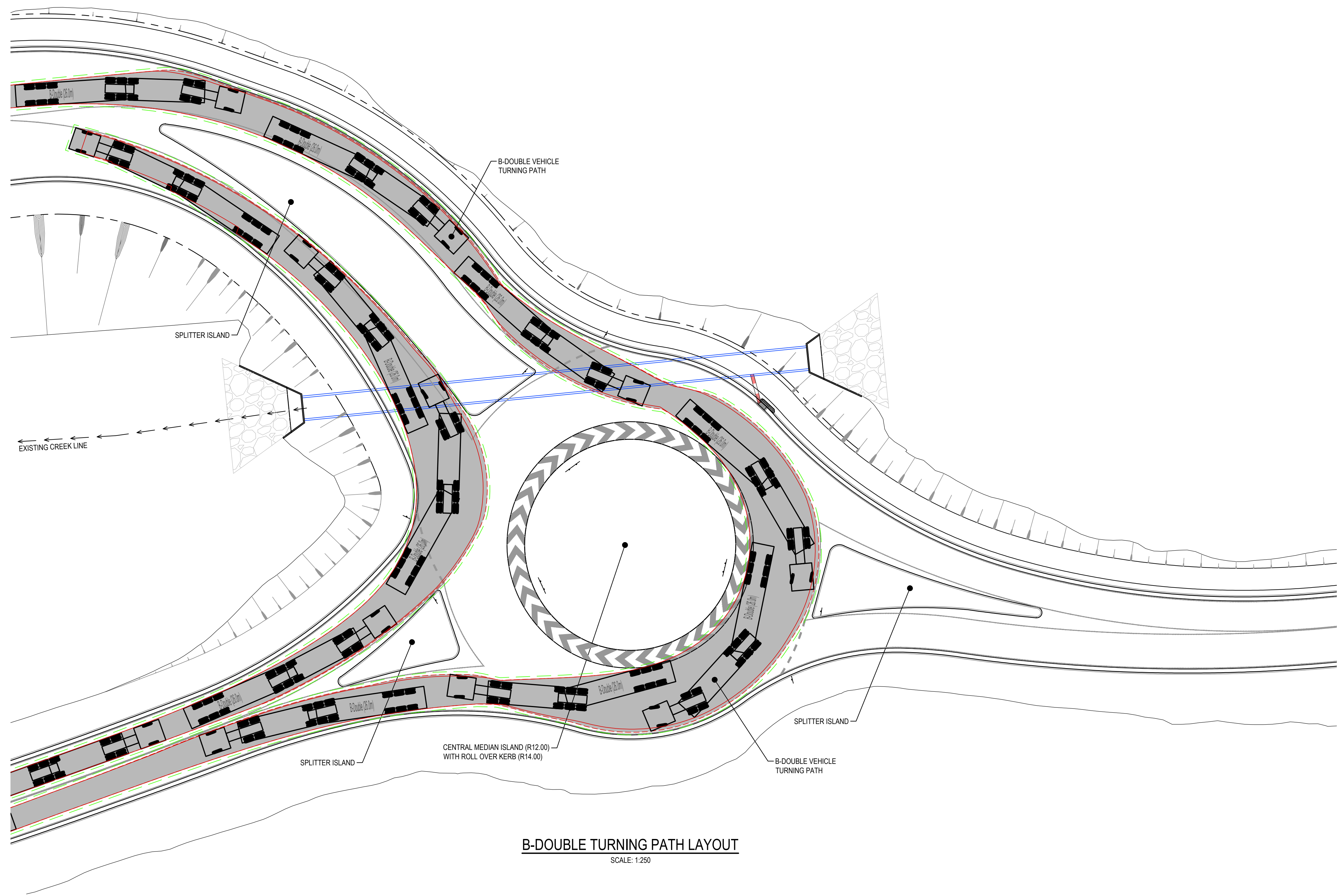
[illegible]



ISSUED FOR APPROVAL

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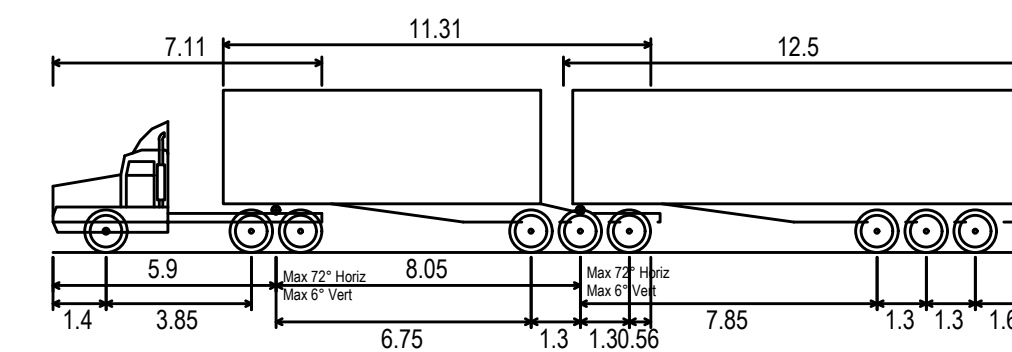
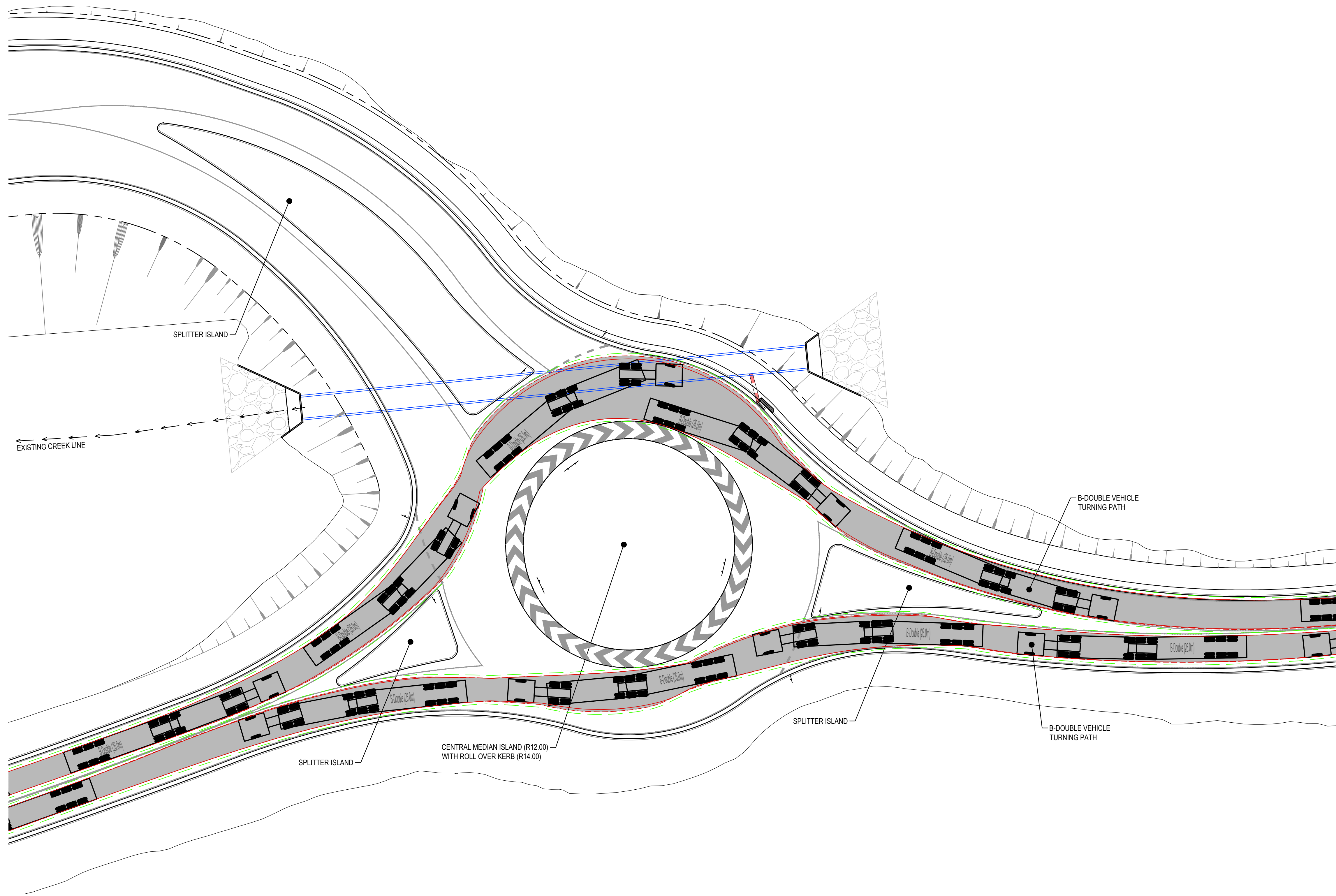


B-Double (26.0m)	
Overall Length	26.000m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.540m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	15.000m

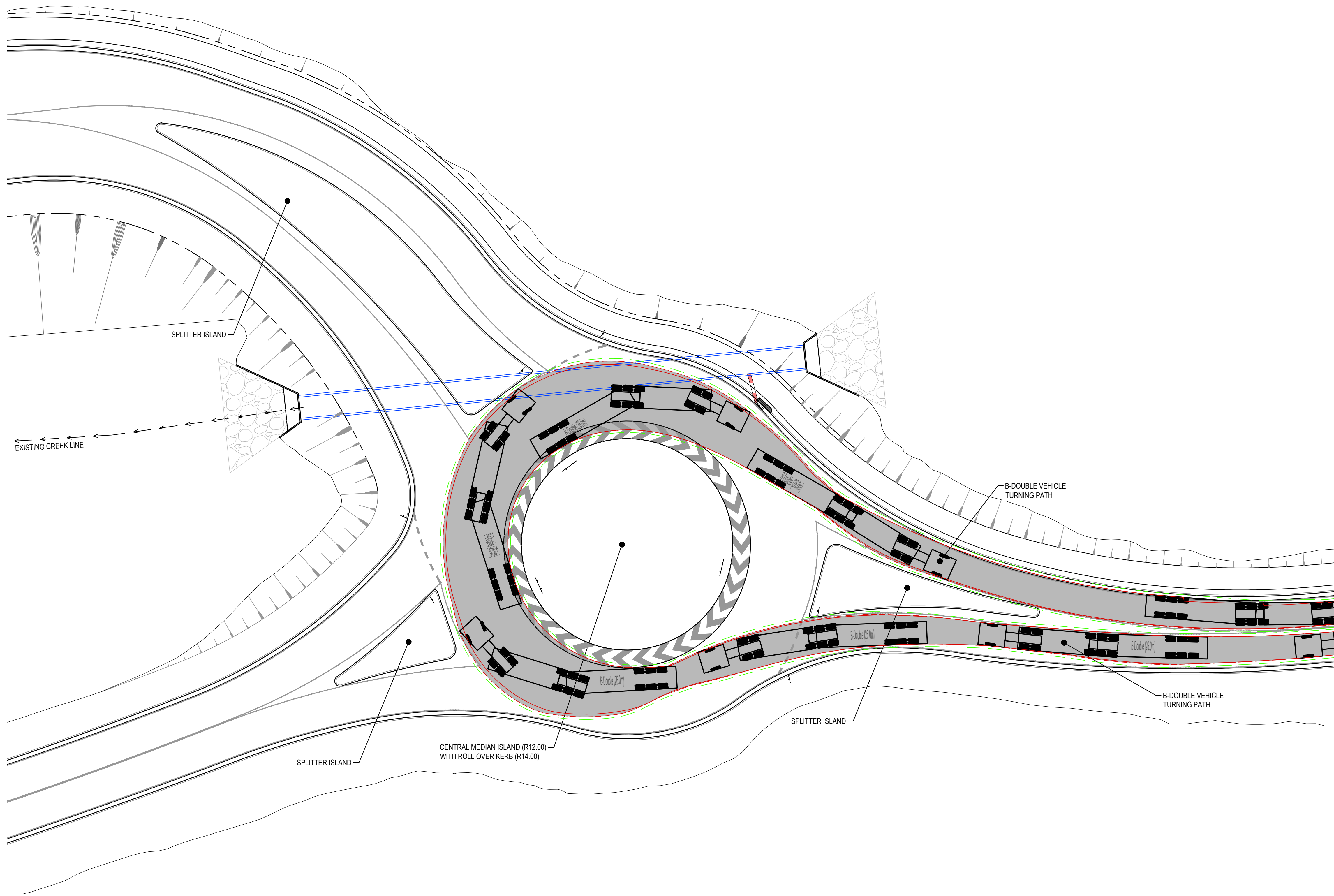
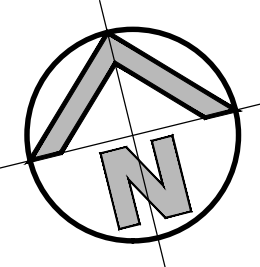
B-DOUBLE VEHICLE PROFILE

SCALE: 1:500

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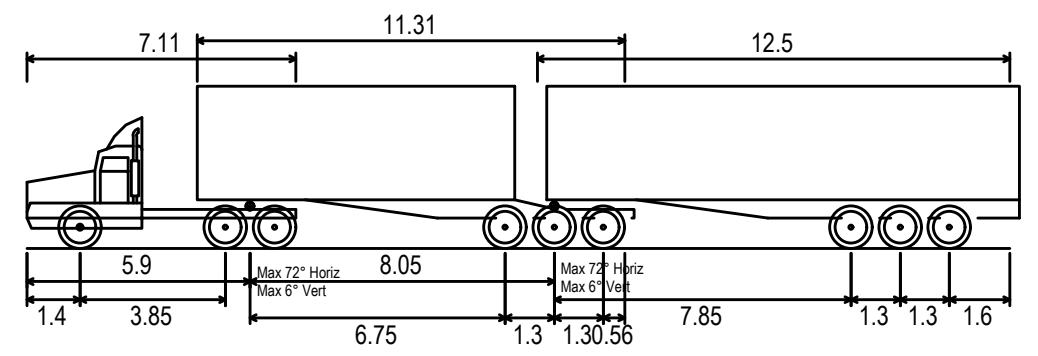
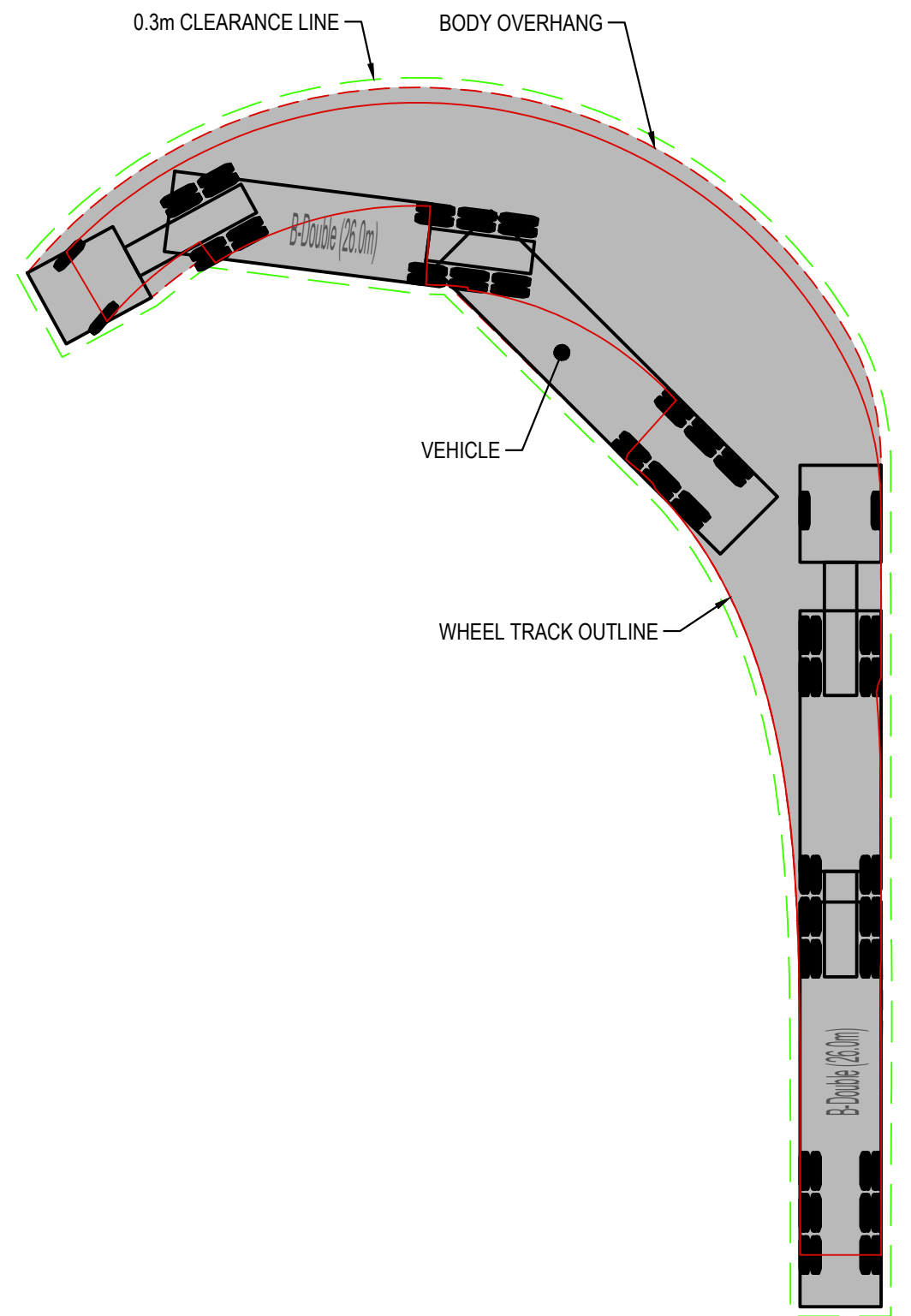


B-DOUBLE VEHICLE PROFILE
SCALE: 1:500



B-DOUBLE TURNING PATH LAYOUT

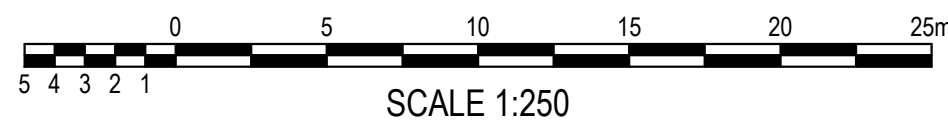
SCALE: 1:250



B-Double (26.0m)	26.000m
Overall Length	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.540m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	15.000m



B-DOUBLE VEHICLE PROFILE

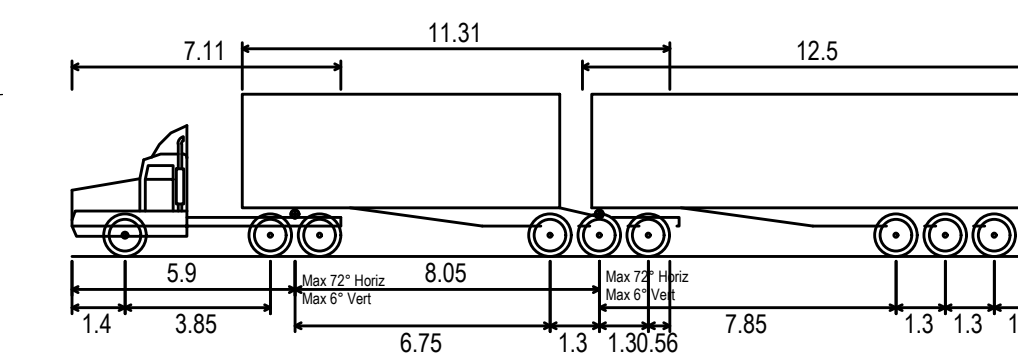
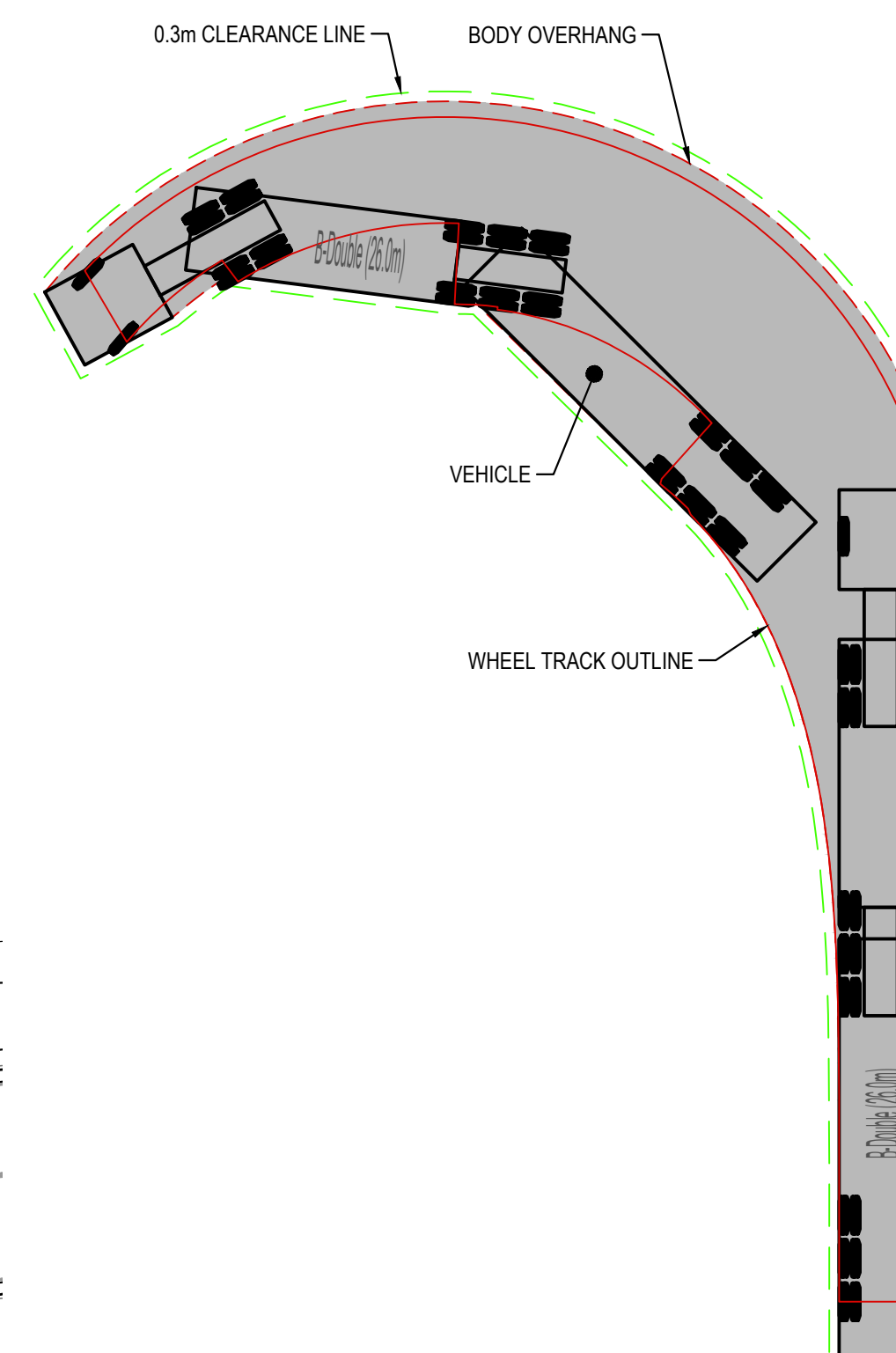
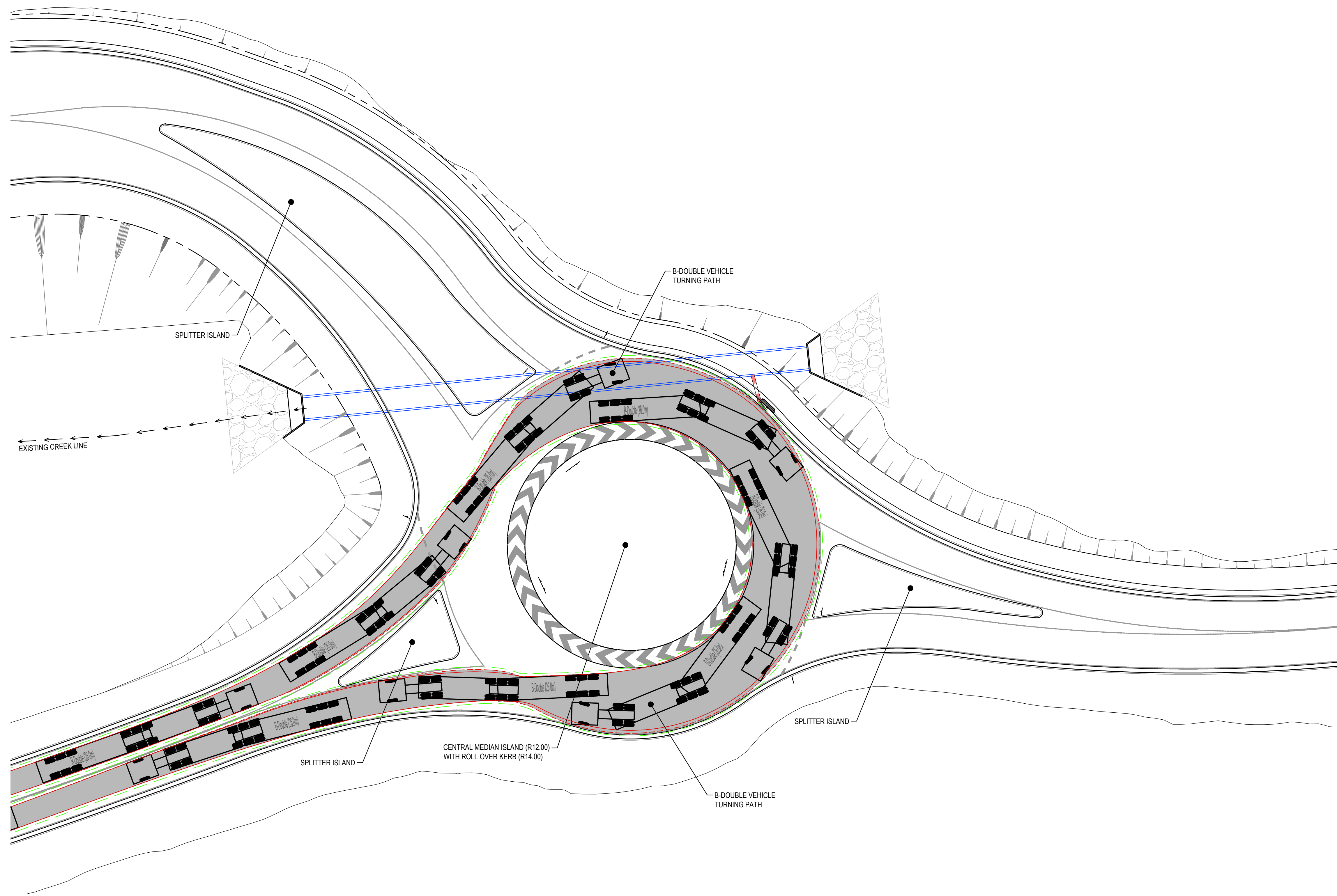
SCALE: 1:500



SCALE 1:250

ISSUED FOR APPROVAL

 Western Sydney Parklands Trust								Client WESTERN SYDNEY PARKLANDS TRUST				Level 5, 79 Victoria Avenue Chatswood NSW 2067				 <div>Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hhconsult.com.au Web www.henryandhymas.com.au</div>				Project LIGHT HORSE INTERCHANGE BUSINESS HUB EASTERN CREEK, NSW (SSD9667)				Drawn B.Hurlstone				Designed B.Hurlstone				Date MAY 2019							
								NETTLETONTRIBE												Checked N.Wetzlar				Approved A.Francis				Scale @A1 1:250											
								This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.																Drawing number 18652_SSDA_C603				Revision 03											
REVISION				AMENDMENT				DRAWN				DESIGNED				DATE				REVISION				AMENDMENT				DRAWN				DESIGNED				DATE			
03				ISSUED FOR APPROVAL				IK				NW				21.01.2020																							
02				ISSUED FOR APPROVAL				IK				NW				13.12.2019																							
01				ISSUED FOR APPROVAL				BH				BH				23.05.2019																							



B-Double (26.0m)	
Overall Length	26.000m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.540m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	15.000m

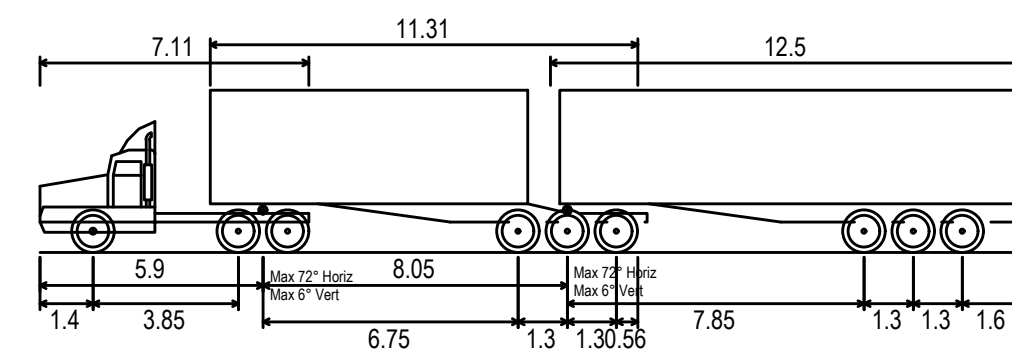
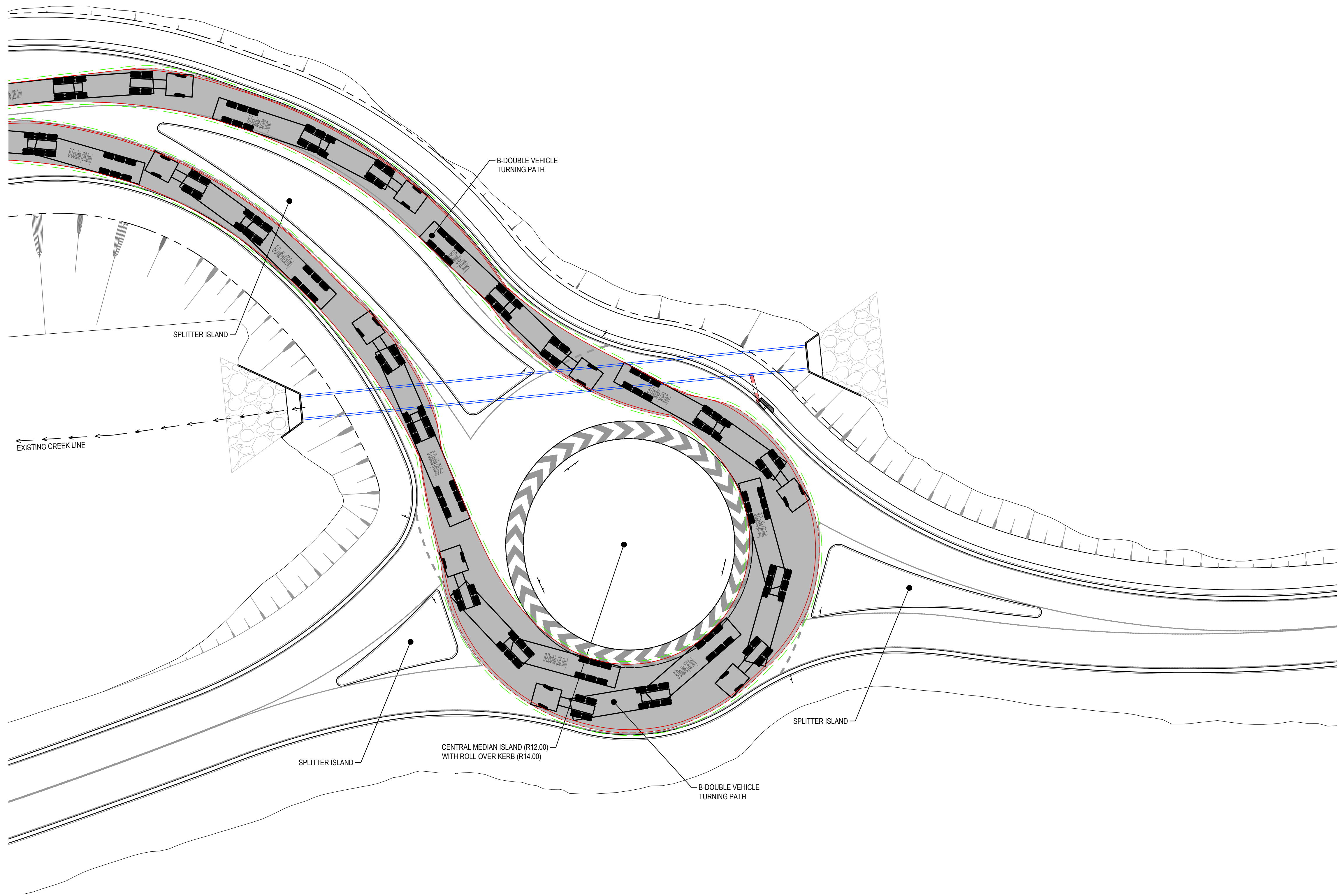
B-DOUBLE VEHICLE PROFILE

SCALE: 1:500

B-DOUBLE TURNING PATH LAYOUT

SCALE: 1:250

[illegible]



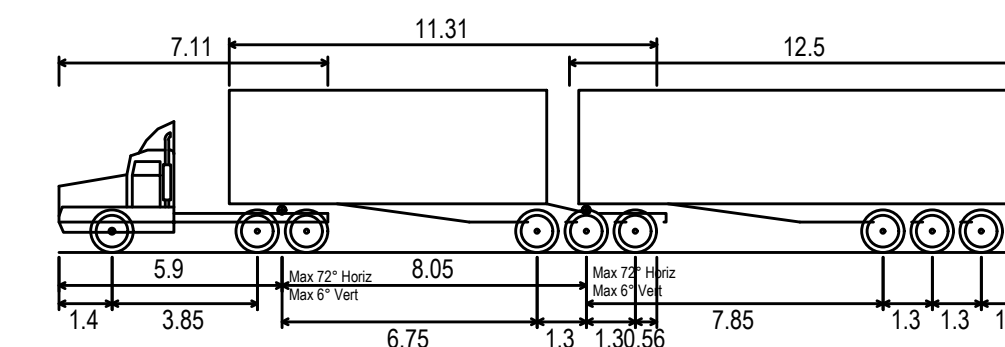
B-DOUBLE VEHICLE PROFILE

SCALE: 1:500

SCALE: 1:250



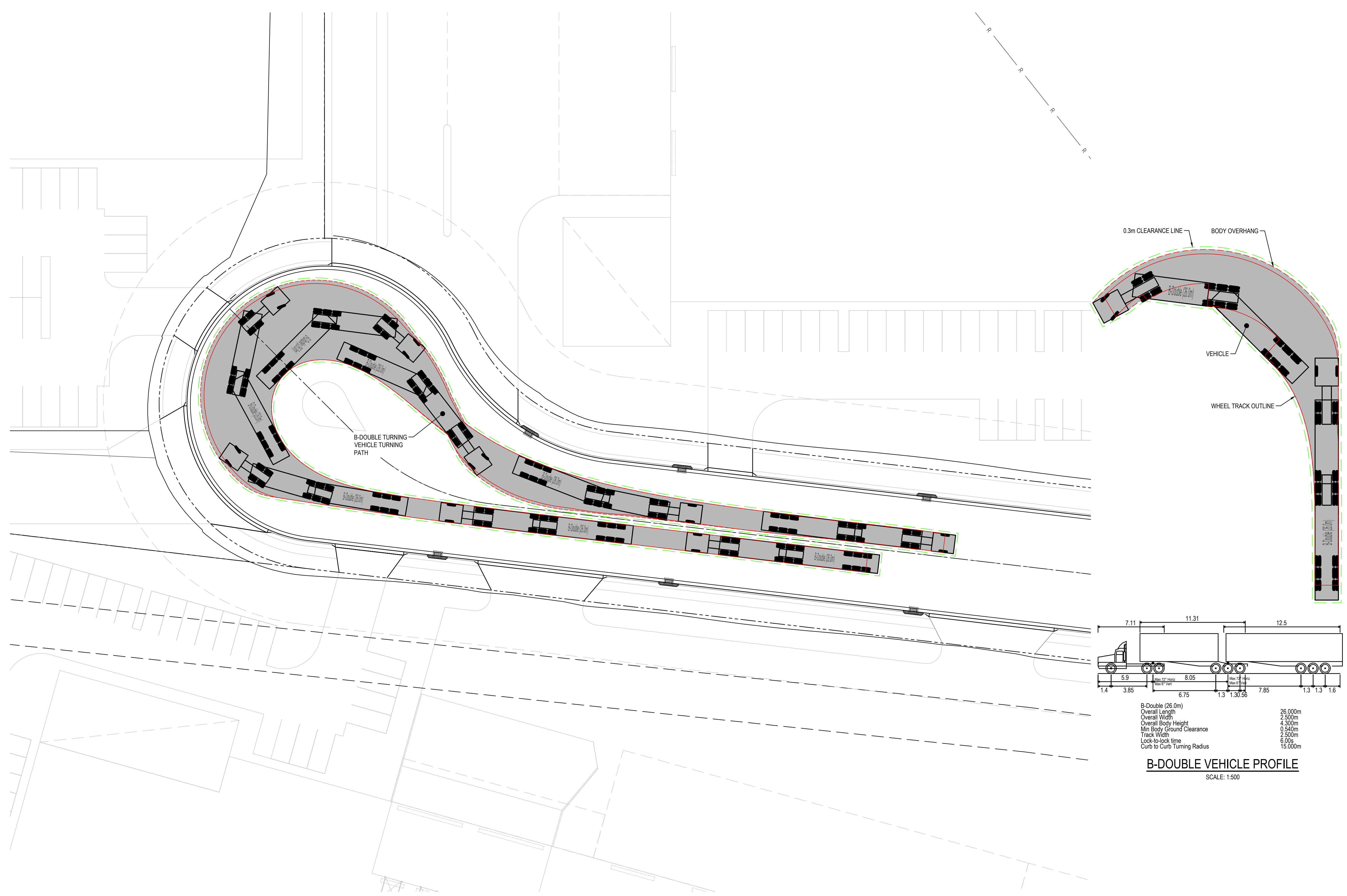
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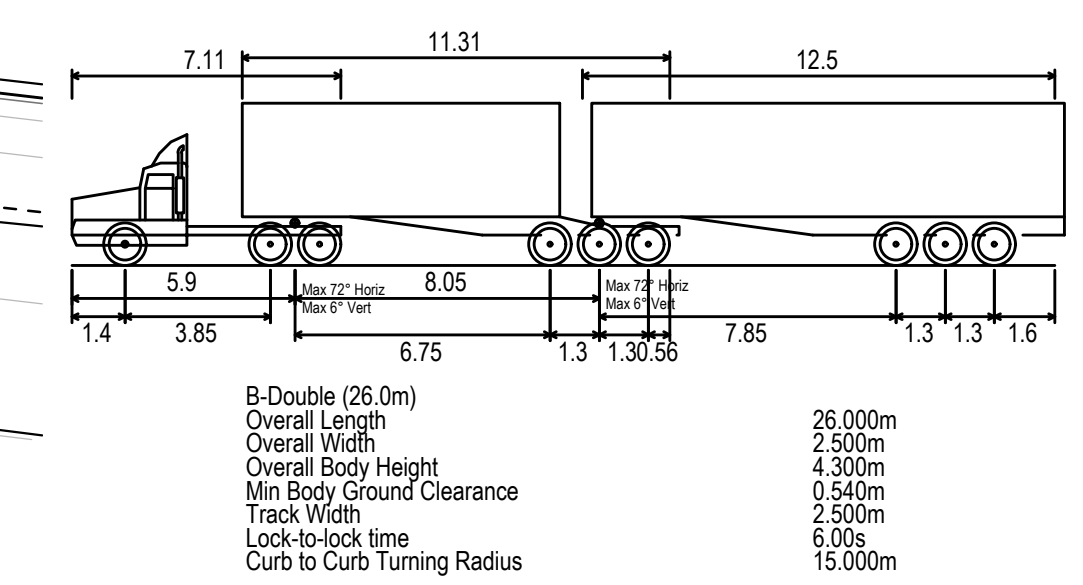
B-DOUBLE VEHICLE PROFILE

SCALE: 1:500

ISSUED FOR APPROVAL



SCALE: 1:250

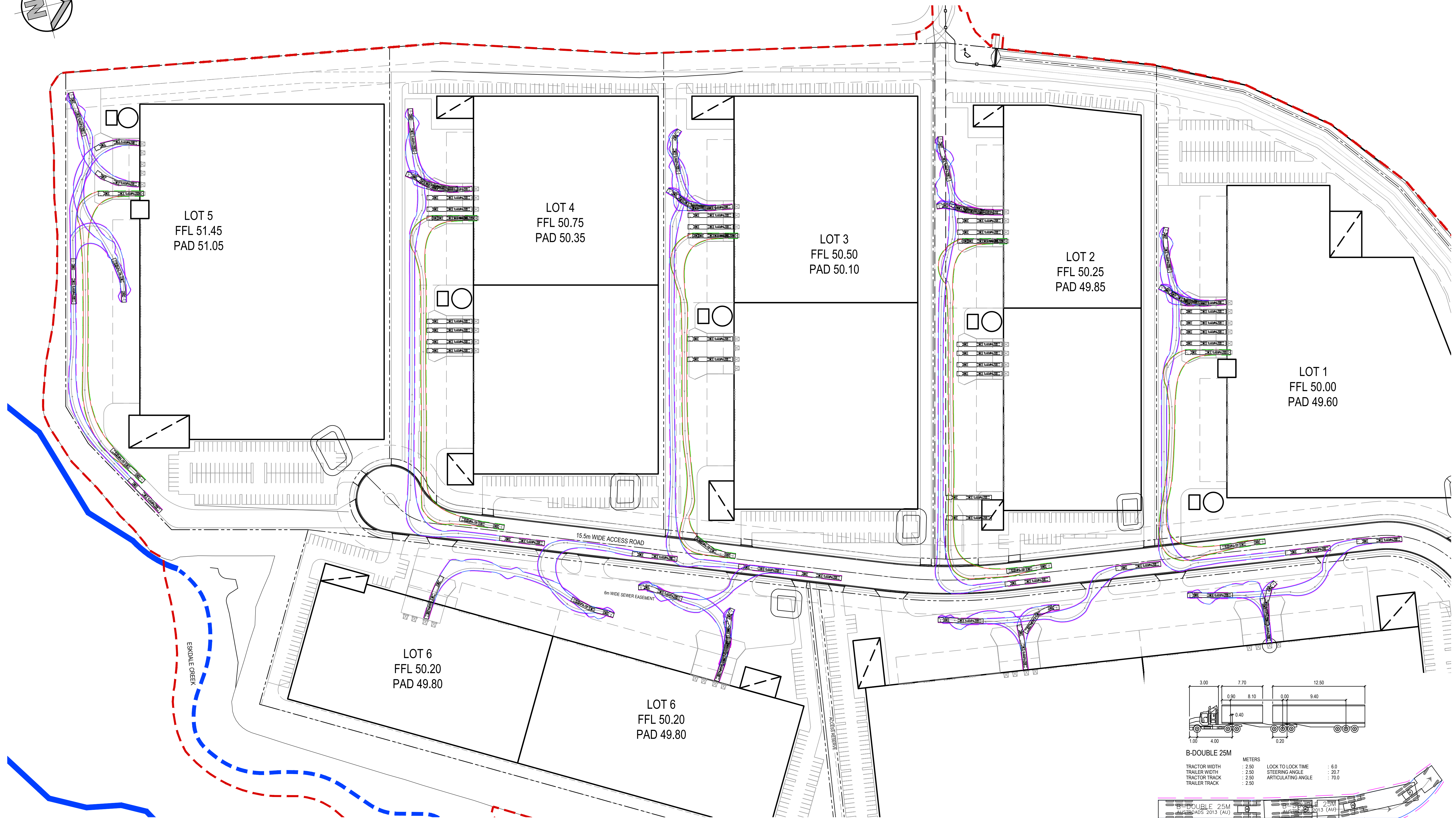
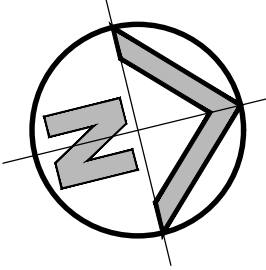


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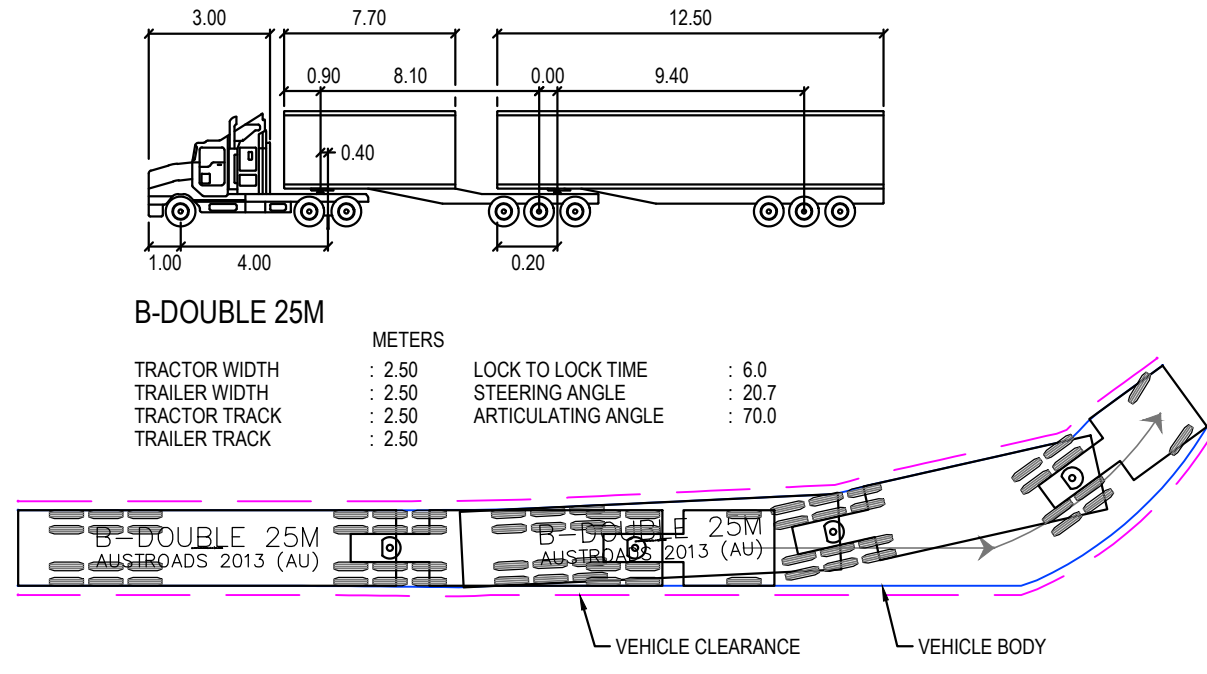


ISSUED FOR APPROVAL

Drawing number	Revision
18652_SSDA_C607	03

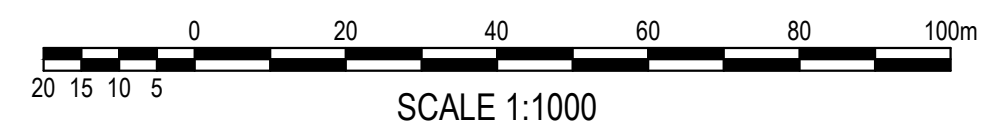




INTERCUT TURNING PATHS PLAN
SCALE: 1:1000

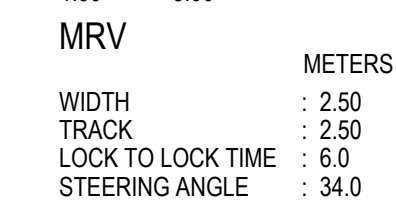
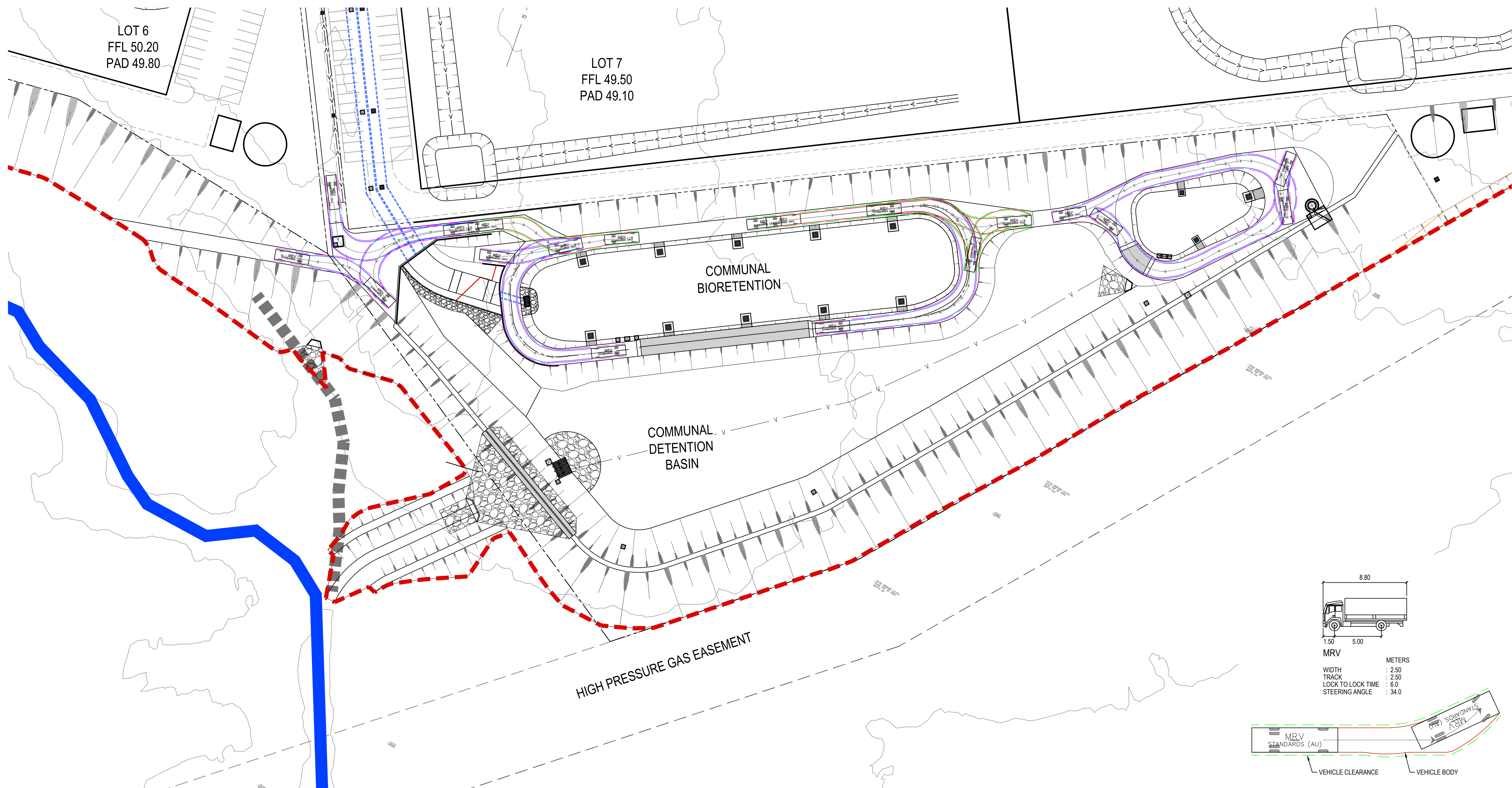


VEHICLE LEGEND
SCALE: N.T.S.

ISSUED FOR APPROVAL



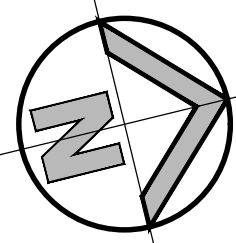
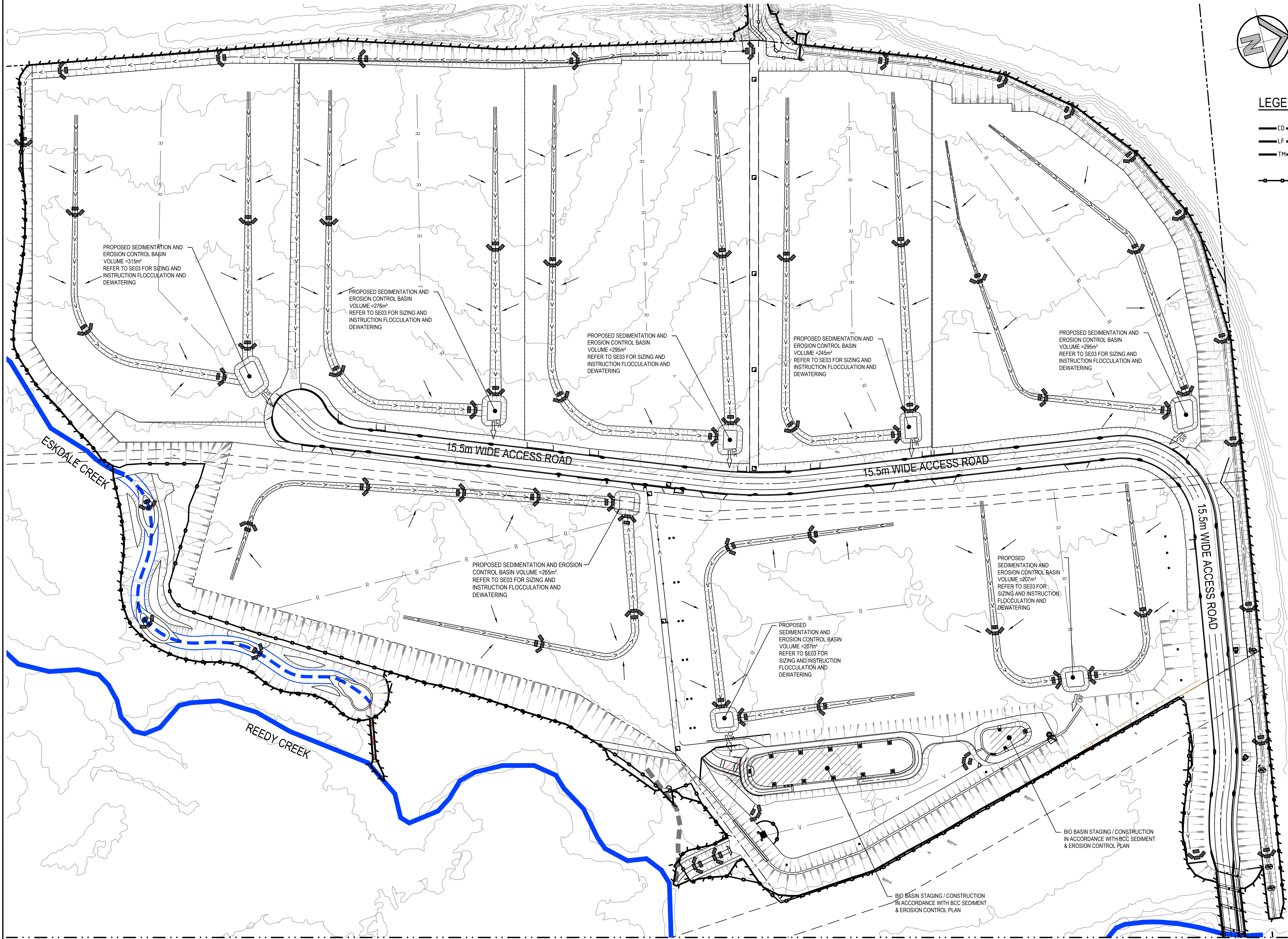
 <div>Western Sydney Parklands Trust</div>												Client										Level 5, 79 Victoria Avenue Cherrywood NSW 2067																				Project										Drawn										Designed										Date																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										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SCALE 1:500

ISSUED FOR APPROVAL



LEGEND

- CD CATCH DIVERSION DRAIN
- LF LOW FLOW DIVERSION DRAIN
- TM TRAFFIC MANOEUVRING
- OIF OVERLAND FLOW PATH
- PROPOSED SEDIMENTATION FENCE
- PROPOSED VEHICLE SHAKER GRID
- PROPOSED STABILISED SITE ACCESS
- PROPOSED STOCKPILE LOCATION
- PROPOSED HAYBALE FILTER
- GEOTEXTILE INLET FILTER
- PROPOSED MESH & GRAVEL INLET FILTER

SEDIMENT & EROSION CONTROL NOTES

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- 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.




NOTE:

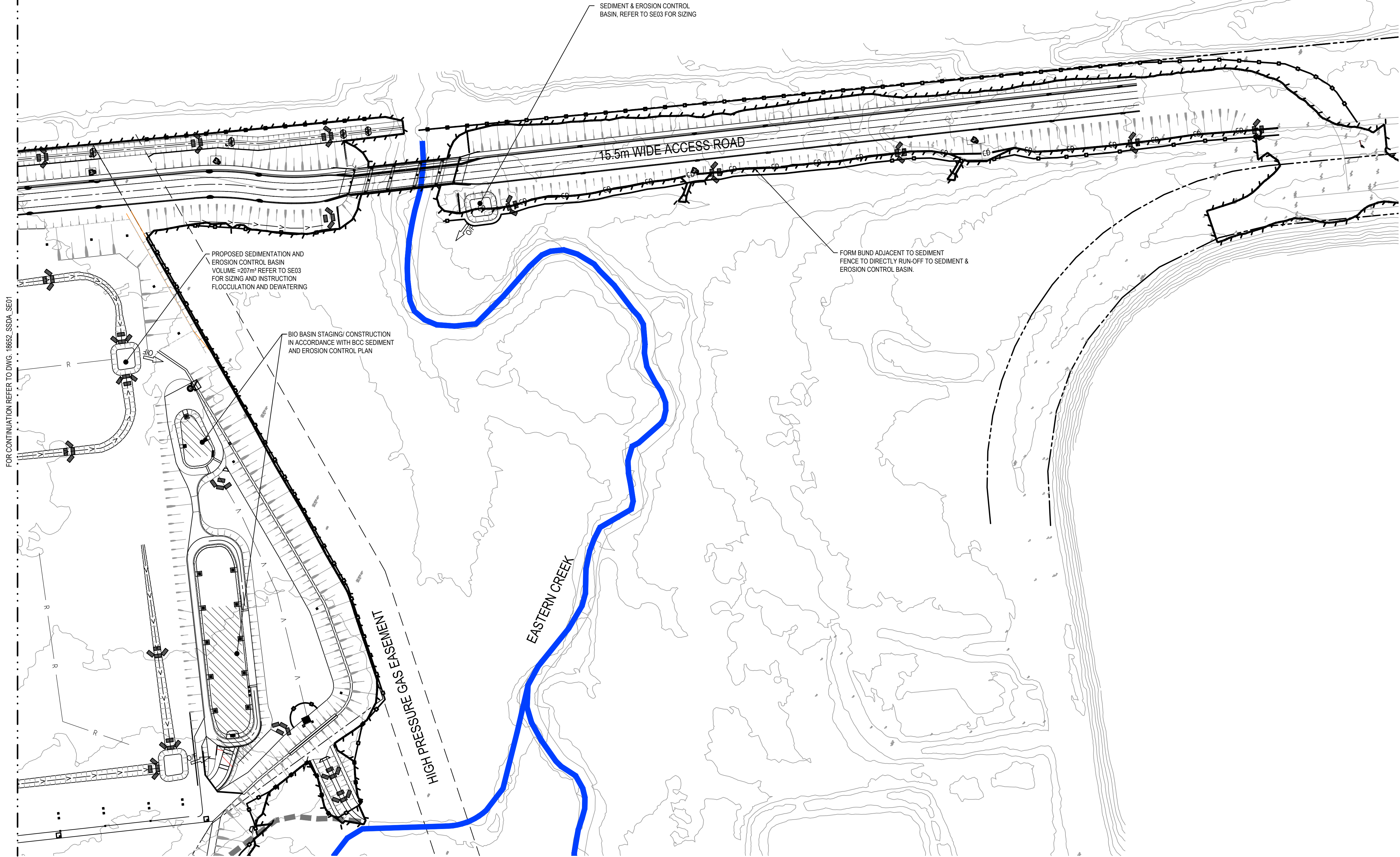
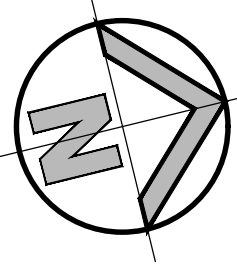
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- ENSURE ALL GRATED PITS ARE PROTECTED WITH MESH AND GRAVEL INLET FILTERS.



FOR CONTINUATION REFER TO DWG. 18652_SSDA_SE02
SEDIMENT AND EROSION CONTROL PLAN
SCALE 1:1250

ISSUED FOR APPROVAL

 Western Sydney Parklands Trust		05 ISSUED FOR APPROVAL IK NW 21.01.2020		04 ISSUED FOR APPROVAL IK NW 13.12.2019		03 ISSUED FOR APPROVAL MS NW 09.04.2019		02 ISSUED FOR CO-ORDINATION IK NW 05.04.2019		01 ISSUED PRELIMINARY IK NW 28.03.2019		REVISION AMENDMENT		DRAWN DESIGNED DATE		AMENDMENT		DRAWN DESIGNED DATE		Client WESTERN SYDNEY PARKLANDS TRUST NETTLETONTRIBE This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.	Level 5, 79 Victoria Avenue Cherrywood NSW 2067  Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hhconsult.com.au Web www.henryandhymas.com.au	 henry&hymas	Project LIGHT HORSE INTERCHANGE BUSINESS HUB EASTERN CREEK, NSW (SSD9667) Title SEDIMENT AND EROSION CONTROL PLAN SHEET 1 OF 2	Drawn M.Stimova Checked N.Wetzlar Designed L.Caha Approved A.Francis Date FEB 2019 Scale (B1) 1:1250 Drawing number 18652_SSDA_SE01 Revision 05
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LEGEND

- CD → CATCH DIVERSION DRAIN
- LF → LOW FLOW DIVERSION DRAIN
- TM → TRAFFIC MANOEUVRING
- O.F. → OVERLAND FLOW PATH
- PROPOSED SEDIMENTATION FENCE
- ▤ PROPOSED VEHICLE SHAKER GRID
- ▨ PROPOSED STABILISED SITE ACCESS
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SEDIMENT AND EROSION CONTROL PLAN

SCALE 1:1250



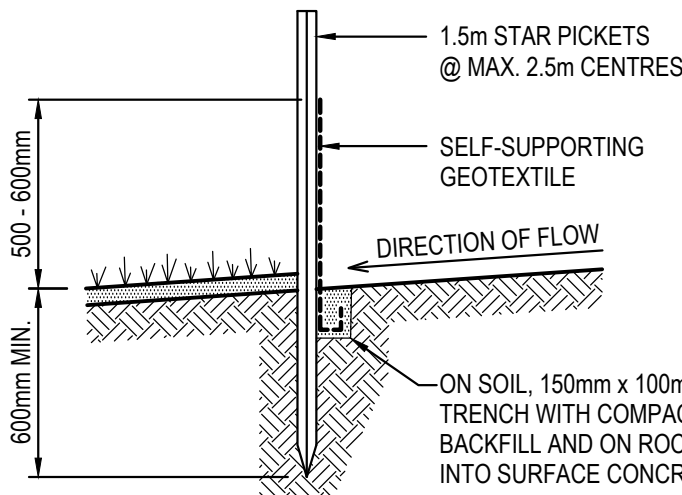
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ISSUED FOR APPROVAL

 Western Sydney Parklands Trust		05 ISSUED FOR APPROVAL		IK	NW	21.01.2020							Client		WESTERN SYDNEY PARKLANDS TRUST		Level 5, 79 Victoria Avenue Chatswood NSW 2067		Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hhconsult.com.au Web www.henryandhymas.com.au				Project		LIGHT HORSE INTERCHANGE BUSINESS HUB EASTERN CREEK, NSW (SSD9667)		Drawn M.Stimova		Designed L.Caha		Date FEB 2019			
		04 ISSUED FOR APPROVAL		IK	NW	13.12.2019							Client		NETTLETONTRIBE										Checked N.Wetzlar		Approved A.Francis		Scale @A1 1:1250					
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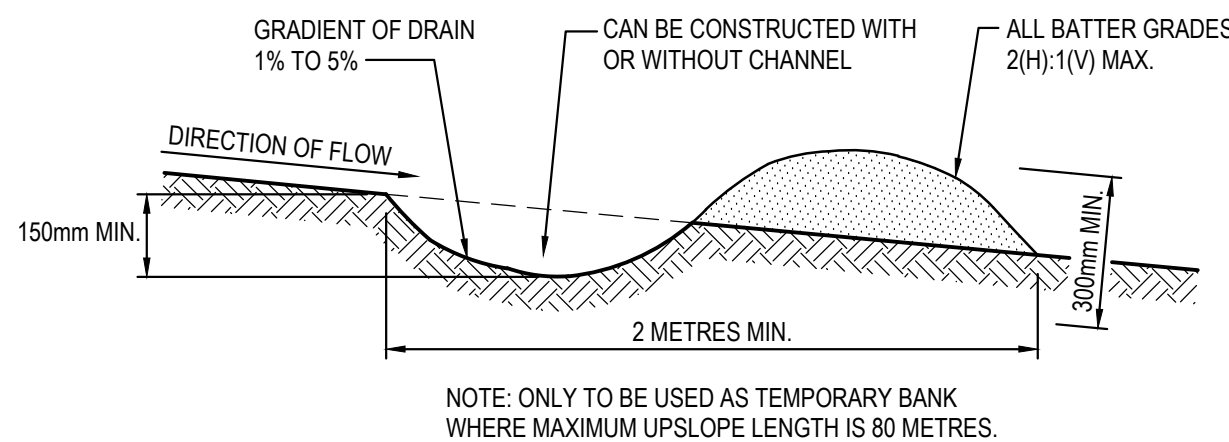
- ### SEDIMENT FENCE CONSTRUCTION NOTES:
1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED 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 TRENCHED.
 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. 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.



STOCKPILES

SCALE N.T.S.

- ### STACKPILE CONSTRUCTION NOTES:
1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARDOUS AREAS.
 2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELEVATED MOUNDS.
 3. 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 TOPSOIL STABILISATION PLAN.
 5. CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.

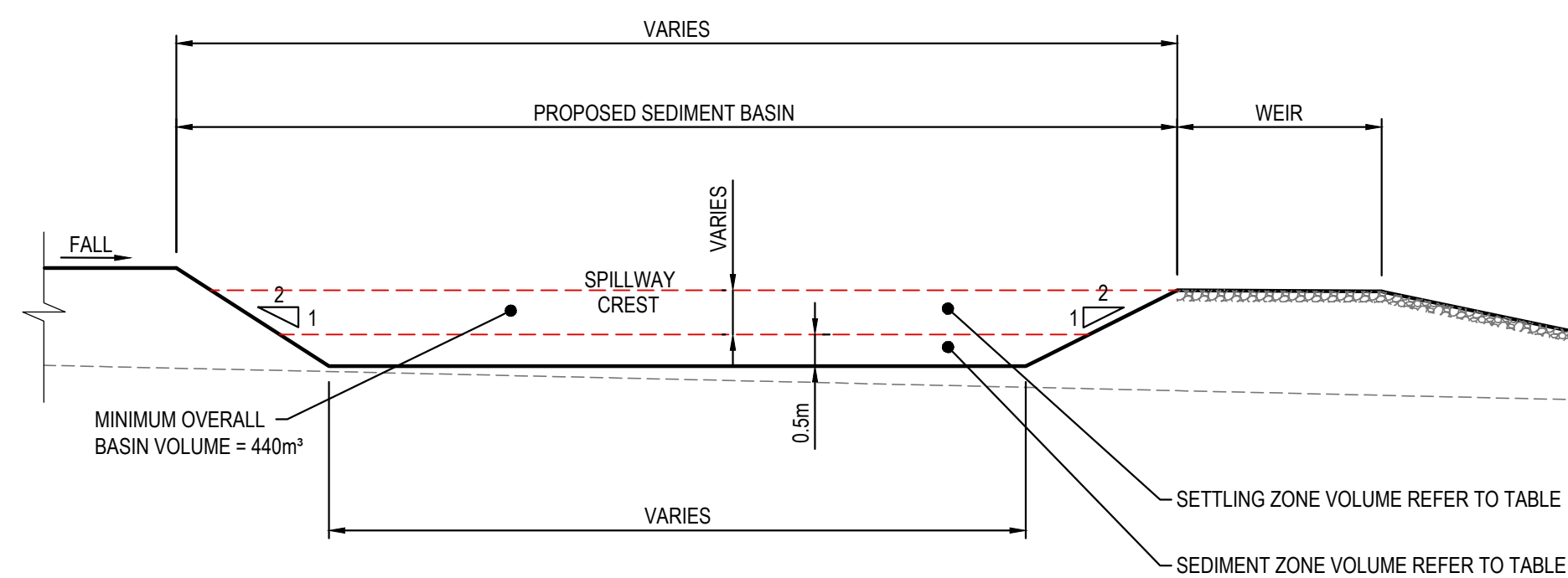


EARTH BANK CONSTRUCTION NOTES

1. BUILD WITH GRADIENTS BETWEEN 1% AND 5%.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS-SECTIONS, NOT "V" SHAPED.
5. ENSURE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.

EARTH BANK (LOW FLOW)

SCALE N.T.S.



TYPICAL SECTION

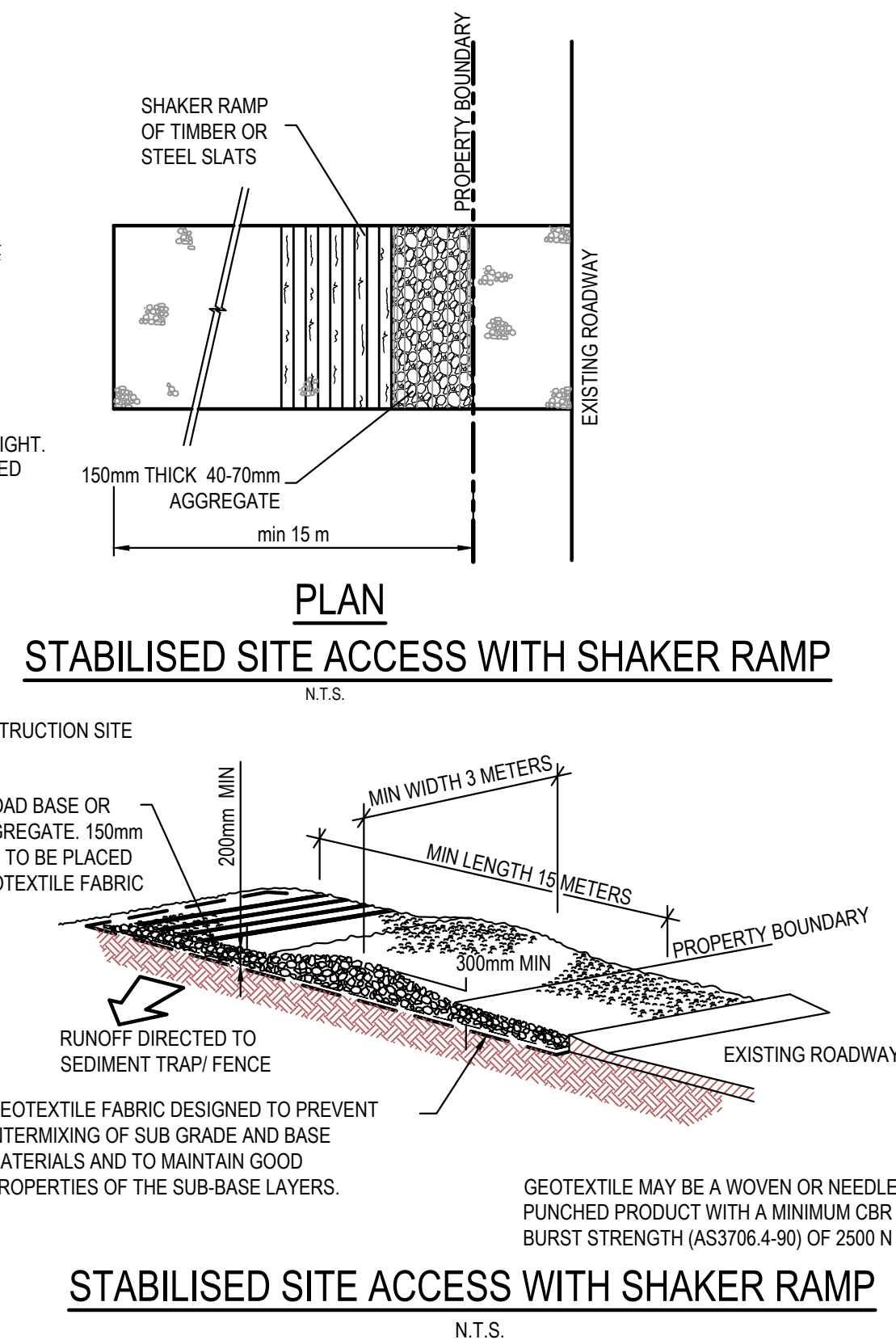
SEDIMENTATION BASIN

N.T.S.

CONSTRUCTION SEQUENCE

WORKS SHALL BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:

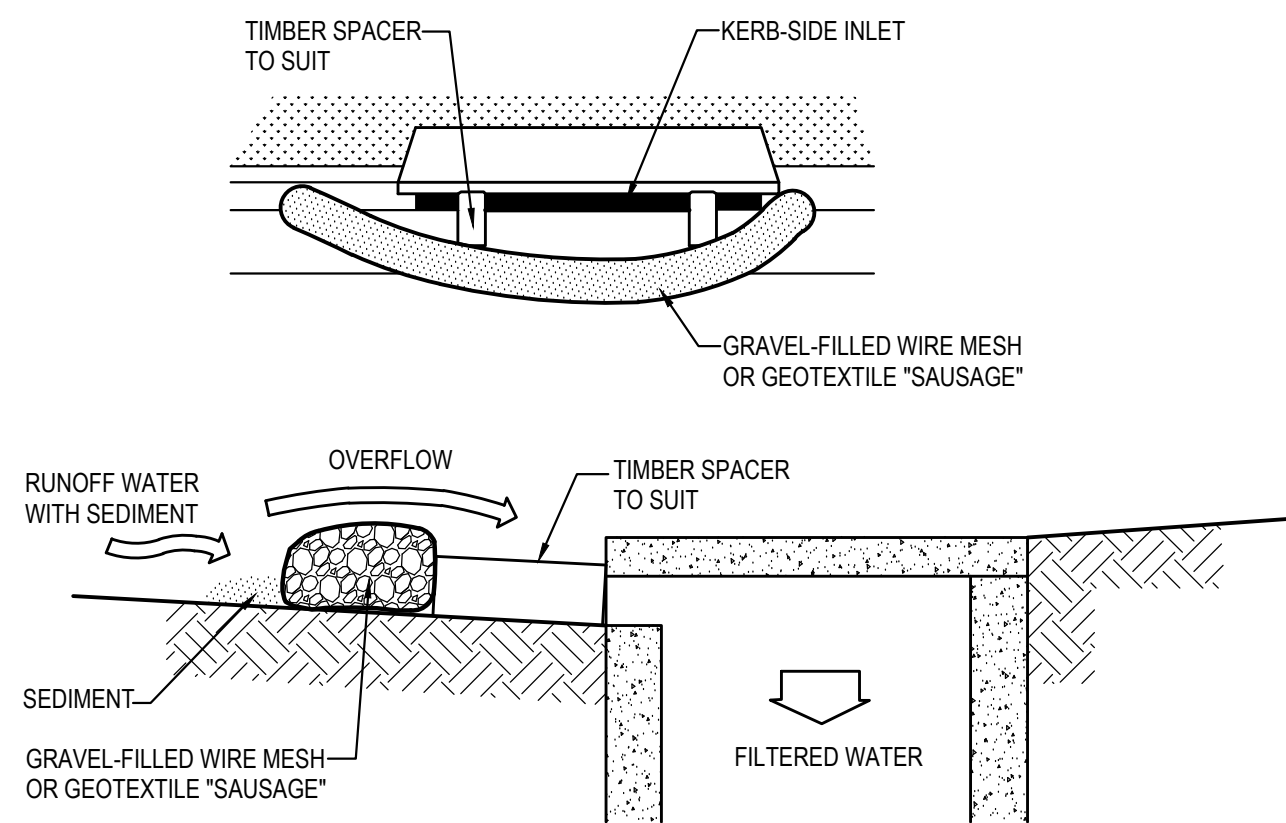
1. INSTALL SEDIMENT FENCING AND CUT DRAINS TO MEET THE REQUIREMENTS OF THE SEDIMENT AND EROSION CONTROL PLAN. WASTE COLLECTION BINS SHALL BE INSTALLED ADJACENT TO SITE OFFICE.
2. CONSTRUCT STABILISED SITE ACCESS IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL'S REQUIREMENTS.
3. REDIRECT CLEAN WATER AROUND THE CONSTRUCTION SITE.
4. INSTALL SEDIMENT CONTROL PROTECTION MEASURES AT ALL NATURAL AND MAN-MADE DRAINAGE STRUCTURES. MAINTAIN UNTIL ALL THE DISTURBED AREAS ARE STABILISED.
5. CLEAR AND STRIP THE WORK AREAS. MINIMISE THE DAMAGE TO THE GRASS AND LOW GROUND COVER OF NON-DISTURBED AREAS.
6. ANY DISTURBED AREAS, OTHER THAN BUILDING PAD AREAS, SHALL IMMEDIATELY BE COVERED WITH SITE TOPSOIL WITHIN 7 DAYS OF CLEARING. BUILDING PAD AREAS SHALL BE COVERED WITH BITUMEN EMULSION AS SPECIFIED.
7. APPLY PERMANENT STABILISATION TO SITE (LANDSCAPING).



STABILISED SITE ACCESS WITH SHAKER RAMPS

N.T.S.

- 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 PLANKS.
 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 THUMES CONCRETE MAY BE USED. 1, 2 & 3 ABOVE ALSO APPLY.

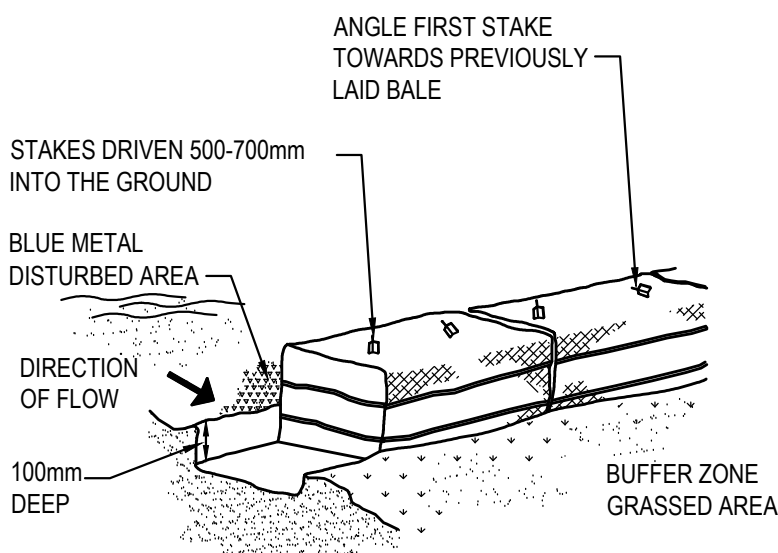


MESH & GRAVEL INLET FILTER CONSTRUCTION NOTES:

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. SANDS AND 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 BETWEEN.

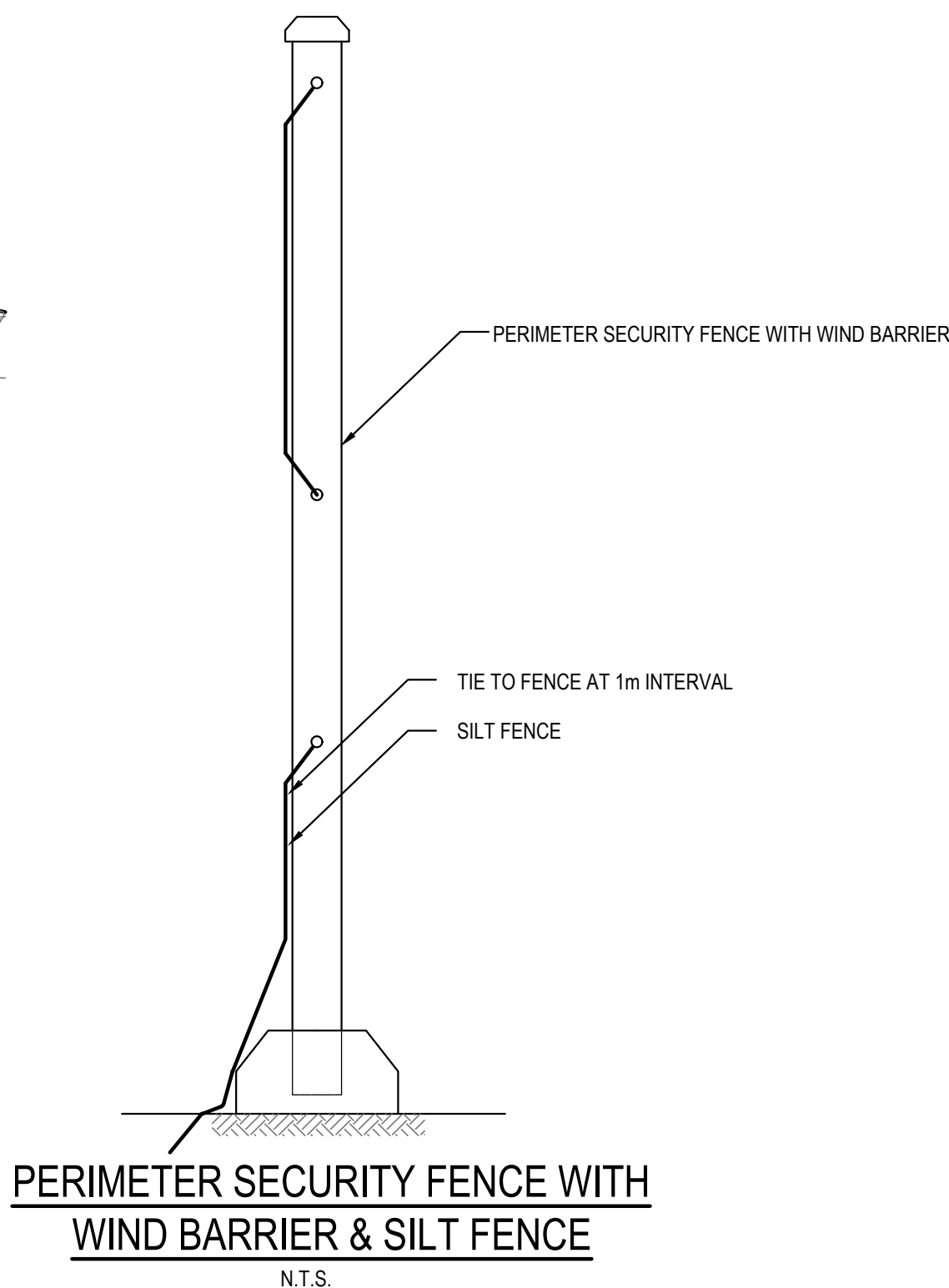
MESH & GRAVEL INLET FILTER

SCALE N.T.S.



HAYBALE BARRIERS

N.T.S



PERIMETER SECURITY FENCE WITH
WIND BARRIER & SILT FENCE

N.T.S.

SEDIMENT BASIN SIZING

1. THE SEDIMENT BASIN SHALL BE CONSTRUCTED ON A RATE PER HECTARE BASIS AND HAS BEEN IN ACCORDANCE WITH THE REQUIREMENTS OF THE LANDCOM MANUAL "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION", FOR SEDIMENTATION TYPE D SOILS. THE DISTURBED AREA WITHIN THIS CATCHMENT AT ANY ONE TIME SHOULD BE LIMITED TO AN AREA FOR WHICH EACH SEDIMENT BASIN CAN HANDLE. EACH BASIN SHALL BE SIZED IN ACCORDANCE WITH THE TABLE BELOW.

SEDIMENT BASIN SIZING TYPE D SOILS	
VOLUMETRIC RUNOFF COEFFICIENT, CV	0.25 (APPENDIX F - TABLE F2)
85TH PERCENTILE 5 DAY TOTAL RAINFALL DEPTH, R	32.2 mm
CATCHMENT AREA, A	1 Ha (UNIT AREA)
SETTLING ZONE VOLUME (PER HECTARE) 10 CV A R	80.5 m³
DISTURBED CATCHMENT AREA	1 Ha (UNIT AREA)
R K L S P C	110.87m²
SEDIMENT ZONE VOLUME (0.17 A (R K L S P C)/1.3	14.5m³ < 50% SETTLING VOL
TOTAL SEDIMENT BASIN VOLUME REQUIRED :	120.75 m³/Ha

* (LANDCOM MANAGING URBAN STORMWATER MANUAL REFERENCE)

2. THE FOLLOWING DESIGN PARAMETERS HAVE BEEN ASSESSED FOR THE SITE:

CONSTRAINT	VALUE	(SOURCE)*
RAINFALL EROSIVITY (R-FACTOR)	2350	APPENDIX B
LENGTH/SLOPE GRADIENT FACTOR, LS	0.955	APPENDIX A - TABLE A1
SOIL ERODIBILITY (K-FACTOR)	0.038	(TABLE C20 - BLACKTOWN)
EROSION CONTROL PRACTICE FACTOR (P-FACTOR)	1.3 (COMPACTED)	APPENDIX A - TABLE A2
COVER FACTOR (C-FACTOR)	1.0 (DURING EARTHWORKS)	APPENDIX A - FIGURE A5
CALCULATED SOIL LOSS, A (RUSLE EQUATION)	110.87t/ha/YR	A = R K L S P C
SOIL HYDROLOGIC GROUP	GROUP C	APPENDIX C TABLE 20
SEDIMENT TYPE	TYPE D	APPENDIX C TABLE 4
85TH PERCENTILE 5-DAY RAINFALL EVENT	32.2mm (BLACKTOWN)	TABLE 6.3A

* (LANDCOM MANAGING URBAN STORMWATER MANUAL REFERENCE)

BASIN MANAGEMENT

1. THE CAPTURED STORMWATER IN THE SETTLING ZONE SHOULD BE DRAINED TO MEET THE MINIMUM STORAGE CAPACITY REQUIRED WITHIN A FIVE (5) DAY PERIOD FOLLOWING RAINFALL, PROVIDED THE ACCEPTABLE WATER QUALITY (NFR) AND TURBIDITY HAVE BEEN ACHIEVED.
2. CHEMICAL FLOCCULANT SUCH AS GYPSUM MAY BE DOSED TO AID SETTLING WITHIN 24 HOURS OF CONCLUSION OF EACH STORM. THE APLD DOSING RATES SHOULD ACHIEVE THE TARGET QUALITY WITHIN 36 TO 72 HOURS OF THE STORM EVENT.
3. INSPECT THE SEDIMENT BASINS AFTER EACH RAINFALL EVENT AND/OR WEEKLY. ENSURE THAT ALL SEDIMENT IS REMOVED ONCE THE SEDIMENT STORAGE ZONE IS FULL (REFER TO PEGS INSTALLED IN BASINS IN ACCORDANCE WITH THE SWMP). ENSURE THAT OUTLET AND EMERGENCY SPILLWAY WORKS ARE MAINTAINED IN A FULLY OPERATIONAL CONDITION AT ALL TIMES.

SOWING SEASON	SEED MIX
AUTUMN/WINTER	OATS@40Kg/Ha + JAPANESE MILLET@10kg/Ha
SPRING/SUMMER	OATS@20kg/Ha + JAPANESE MILLET@20kg/Ha

NOTE: THESE PLANT SPECIES ARE FOR TEMPORARY REVEGETATION ONLY. THEY WILL ONLY PROVIDE PROTECTION FROM EROSION FOR SIX MONTHS. WHERE THE PADS ARE TO BE LEFT UNDEVELOPED FOR A LONGER PERIOD, THE CONTRACTOR SHALL SEEK ADVICE FROM THE SITE SUPERINTENDENT AS TO MORE APPROPRIATE REVEGETATION METHODS.

REVEGETATION IN ACCORDANCE WITH THE ABOVE TABLE WILL BE ENHANCED BY ADDING LIME AT A RATE OF 4kg/TONNE OF TOPSOIL AND 7.5kg/TONNE OF SUBSOIL.

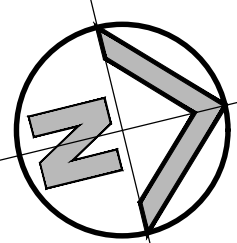
4. THE LONG TERM GROUND COVER FACTORS FOR THE CONSTRUCTION WORKS IS NOT TO EXCEED THE FOLLOWING LIMITS

LAND	MAXIMUM C-FACTOR	REMARKS
WATERWAYS AND OTHER AREAS OF CONCENTRATED FLOWS, POST CONSTRUCTION	0.05	APPLIES AFTER TEN WORKING DAYS OF COMPLETION OF FORMATION AND BEFORE CONCENTRATED FLOWS ARE APPLIED. FOG AND VEHICULAR TRAFFIC IS PROHIBITED IN THIS AREA AND 70% GROUND COVER IS REQUIRED.
STOCKPILES, POST CONSTRUCTION	0.10	APPLIES AFTER TEN WORKING DAYS FROM COMPLETION OF FORMATION. 60% GROUND COVER IS REQUIRED.
ALL LANDS, INCLUDING WATERWAYS AND STOCKPILES, DURING CONSTRUCTION.	0.15	APPLIES AFTER 20 DAYS OF INACTIVITY, EVEN THOUGH WORKS MAY BE INCOMPLETE. 50% GROUND COVER IS REQUIRED.

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[illegible]

[illegible]



FOR CONTINUATION REFER TO DWG: 18652_SSDA_BE01



EARTHWORKS QUANTITIES

(APPROXIMATE ONLY)
NOT TO BE USED FOR CONTRACTUAL PURPOSES. TENDERERS TO
DETERMINE VOLUMES USING THEIR OWN METHOD OF CALCULATION.

- EARTHWORKS QUANTITIES -	
CUT	63929 m³
FILL	975666 m³
SHORT FALL	911737 m³

DEPTH RANGE				
Lower_value	Upper_value		Colour	
-6	to	-4	Meters	
-4	to	-2	Meters	
-2	to	-1	Meters	
-1	to	-.8	Meters	
-.8	to	-.6	Meters	
-.6	to	-.4	Meters	
-.4	to	-.2	Meters	
-.2	to	-.1	Meters	
-.1	to	-.05	Meters	
-.05	to	.0	Meters	
.0	to	.05	Meters	
.05	to	.1	Meters	
.1	to	.2	Meters	
.2	to	.4	Meters	
.4	to	.6	Meters	
.6	to	.8	Meters	
.8	to	1	Meters	
1	to	2	Meters	
2	to	4	Meters	
4	to	6	Meters	

KEY ASSUMPTIONS:

TOP SOIL REMOVAL OF 100mm NOT INCLUDED IN QUANTITIES: 383450m³
EXCAVATION FOR SERVICE TRENCHES
1500m²/ HA = 58000m³ NOT INCLUDED IN QUANTITIES

BULK EARTHWORKS CONCEPT CUT AND FILL PLAN

SCALE 1:1250



SCALE 1:1250

ISSUED FOR APPROVAL



Western Sydney
Parklands Trust

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
05	ISSUED FOR APPROVAL	IK	NW	21.01.2020					
04	ISSUED FOR APPROVAL	IK	NW	13.12.2019					
03	ISSUED FOR APPROVAL	IK	NW	09.04.2019					
02	PRELIMINARY	IK	NW	05.04.2019					
01	PRELIMINARY	IK	NW	28.03.2019					

Client
WESTERN SYDNEY PARKLANDS TRUST

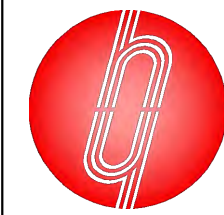
NETTLETONTRIBE

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Level 5,
79 Victoria Avenue
Chatswood NSW 2067



Telephone
+61 2 9417 8400
Facsimile
+61 2 9417 8337
Email
email@hhconsult.com.au
Web
www.henryandhymas.com.au



Project
LIGHT HORSE INTERCHANGE BUSINESS HUB
EASTERN CREEK, NSW (SSD9667)

Title
BULK EARTHWORKS CONCEPT CUT AND
FILL PLAN - SHEET 2 OF 2

Drawn M.Stimova	Designed L.Caha	Date FEB 2019
Checked N.Wetzlar	Approved A.Francis	Scale (B1) 1:1250

Drawing number 18652_SSDA_BE02	Revision 05
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EXISTING GATE & FENCE TO REMAIN

GATE ACCESS

EXISTING GATE

NEW "CAUTION, SHARED ZONE" SIGN

REMOVE LINEMARKING

EXISTING GATED ACCESS

PROPOSED LINEMARKING

PROVIDE CONNECTION TO EXISTING SHARED PATH. MODIFY EXISTING FENCE AS REQUIRED.

Diagram illustrating the Retained Edge - Shared Path configuration. The diagram shows a cross-section of a retaining wall and footing. Key components and requirements are labeled:

- EDGE RESTRAINING TO WSP? SHARED PATH GUIDELINES AND MT WESTLING REQUIREMENTS
- SHARED PATH TO WSP? SHARED PATH GUIDELINES AND MT WESTLING REQUIREMENTS
- RETAINING WALL AND FOOTING DESIGNED TO ACCOMMODATE SURCHARGE LOAD OF 30K LBS. TO BE CONSTRUCTED IN ACCORDANCE WITH MT WESTLING REQUIREMENTS
- FOOTING TO BE FOUND IN SUITABLE SUBGRADE MATERIAL
- 1 IN 5 MAX BATTER

ISSUED FOR APPROVAL

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