

UTILITIES LEGEND

STATUS OF UTILITY BY COLOUR

W(B) SURVEY QUALITY LEVEL UTILITY TYPE

INSTRUCTION

COLOUR	DESCRIPTION
GREEN	DESIGN OR PROPOSED
PURPLE	EXISTING - TO BE PRESERVED
ORANGE	EXISTING - TO BE ABANDONED
RED	EXISTING - TO BE REMOVED

PROPOSED UTILITIES

W	D WATER MAIN
E-HV	ELEC OVERHEAD HIGH VOLTAGE
E-LV	ELEC OVERHEAD LOW VOLTAGE

EXISTING UTILITIES

OC(B)	E COMM OPTICAL FIBRE CONDUIT (QL-B) PRESERVE
TC(B)	E COMM TELEPHONE CONDUIT (QL-B) PRESERVE
E-LV(C)	E ELEC OH LOW VOLTAGE (QL-C) PRESERVE
E-LV(D)	E ELEC OH LOW VOLTAGE (QL-D) PRESERVE
E-HV(D)	E ELEC UG HIGH VOLTAGE (QL-D) PRESERVE
G(D)	E GAS MAIN - GAS PIPELINE (QL-D) PRESERVE
S(C)	E SEWR MAIN (QL-C) PRESERVE
S(D)	E SEWR MAIN (QL-D) PRESERVE
W(B)	E WATR MAIN (QL-B) PRESERVE
W(D)	E WATR MAIN (QL-D) PRESERVE
TCS(D)	E COMM TCS (QL-D) REMOVE
E-VL(C)	E ELEC OH LOW VOLTAGE (QL-C) REMOVE
E-VL(D)	E ELEC OH LOW VOLTAGE (QL-D) REMOVE
W(B)	E WATR MAIN (QL-B) REMOVE
W(D)	E WATR MAIN (QL-D) REMOVE

GENERAL ARRANGEMENT - LAYOUT
(BALUSTRADE AND HANDRAIL NOT SHOWN FOR CLARITY)

GENERAL NOTES

SCALE: 1:2500

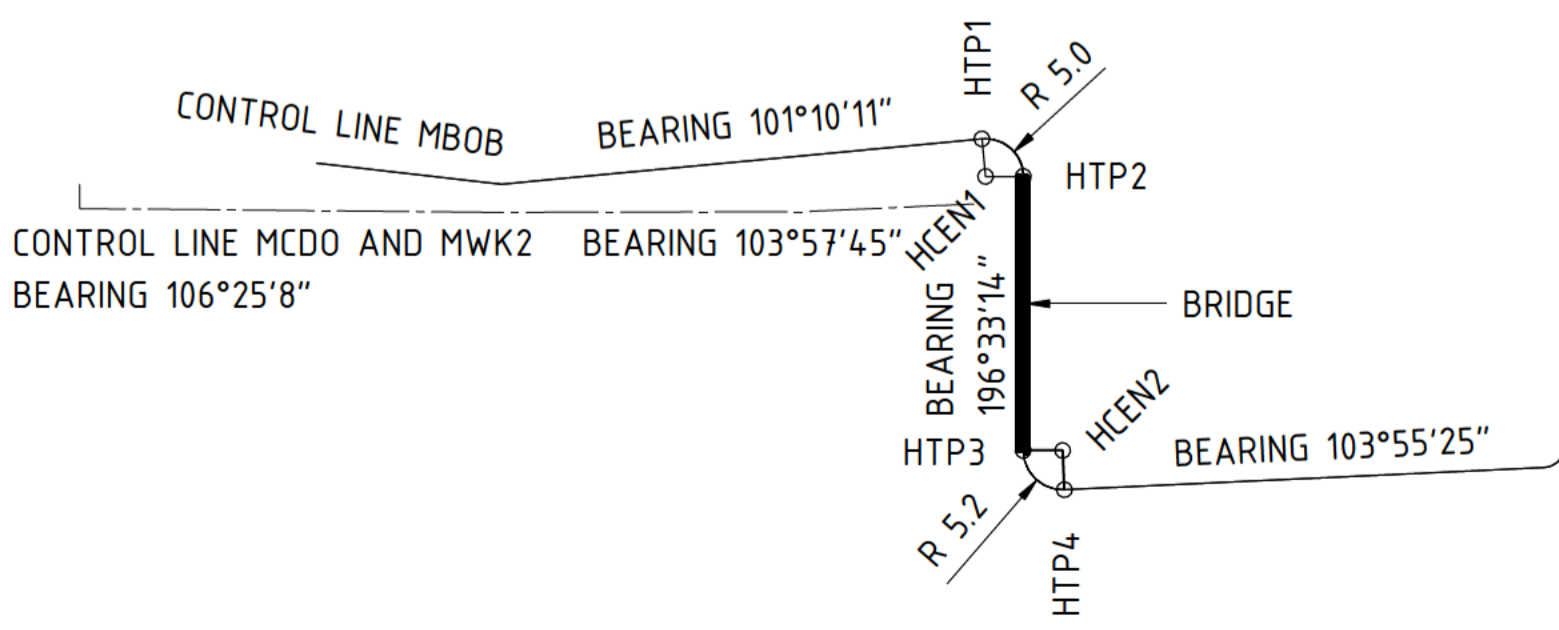
DIMENSIONS ARE IN MILLIMETRES.
CHAINAGES AND REDUCED LEVELS ARE IN METRES.
REDUCED LEVELS ARE RELATED TO AUSTRALIAN HEIGHT DATUM.
CIVIL WORKS NOT SHOWN IN THIS SET. REFER TO DRAWING SET DS2018/000932 FOR DETAILS.
THE LOCATION OF ALL EXISTING SERVICES IS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION AND SERVICES RELOCATED IF REQUIRED.
REFER TO UTILITIES DRAWINGS FOR PROPOSED SERVICE ADJUSTMENTS.

THE FOLLOWING MINIMUM CLEARANCE DISTANCES MUST BE MAINTAINED BETWEEN CONSTRUCTION ACTIVITY AND TELSTRA PLANT:

- VIBRATING PLATE OR WACKER PACKER COMPACTOR: NOT WITHIN 0.5m OF VALIDATED LOCATION. 300mm COMPACTED COVER BEFORE USE OVER DUCTS.
- BORING EQUIPMENT: NOT WITHIN 1.0m OF VALIDATED LOCATION. BETWEEN 2.0m AND 1.0m OF LOCATION, VACUUM EXCAVATE TO BELOW DUCT DEPTH AND INSERT PERMANENT STEEL CASING.
- HEAVY VEHICLES OVER 3 TONNES: NOT TO BE DRIVEN ACROSS DUCTS WITH LESS THAN 600mm COVER.
- MECHANICAL EXCAVATORS: NOT WITHIN 1.0m OF VALIDATED LOCATION. CONSTRUCTOR TO HAND DIG OR USE NON DESTRUCTIVE WATER JET METHOD TO EXPOSE ASSET.

TABLE 1 : HORIZONTAL ALIGNMENT DATA FOR CONTROL LINE MBOB

POINT	LOCATION	COORDINATES		BEARING IN	BEARING OUT
		EASTING	NORTHING		
HCEN1	CENTRE OF CIRCLE	378176.686	6358193.708	-	-
HTP1	CH 88.411	378177.655	6358198.614	101°10'11"	-
HTP2	CH 96.735	378181.479	6358192.284	-	196°33'14"
HCEN2	CENTRE OF CIRCLE	378176.142	6358156.079	-	-
HTP3	CH 132.960	378171.158	6358157.560	196°33'14"	-
HTP4	CH 141.366	378174.891	6358151.031	-	103°55'25"



HORIZONTAL ALIGNMENT DIAGRAM ON CONTROL LINE MBOB, MCD0 AND MWK2
NOT TO SCALE

NOT FOR CONSTRUCTION

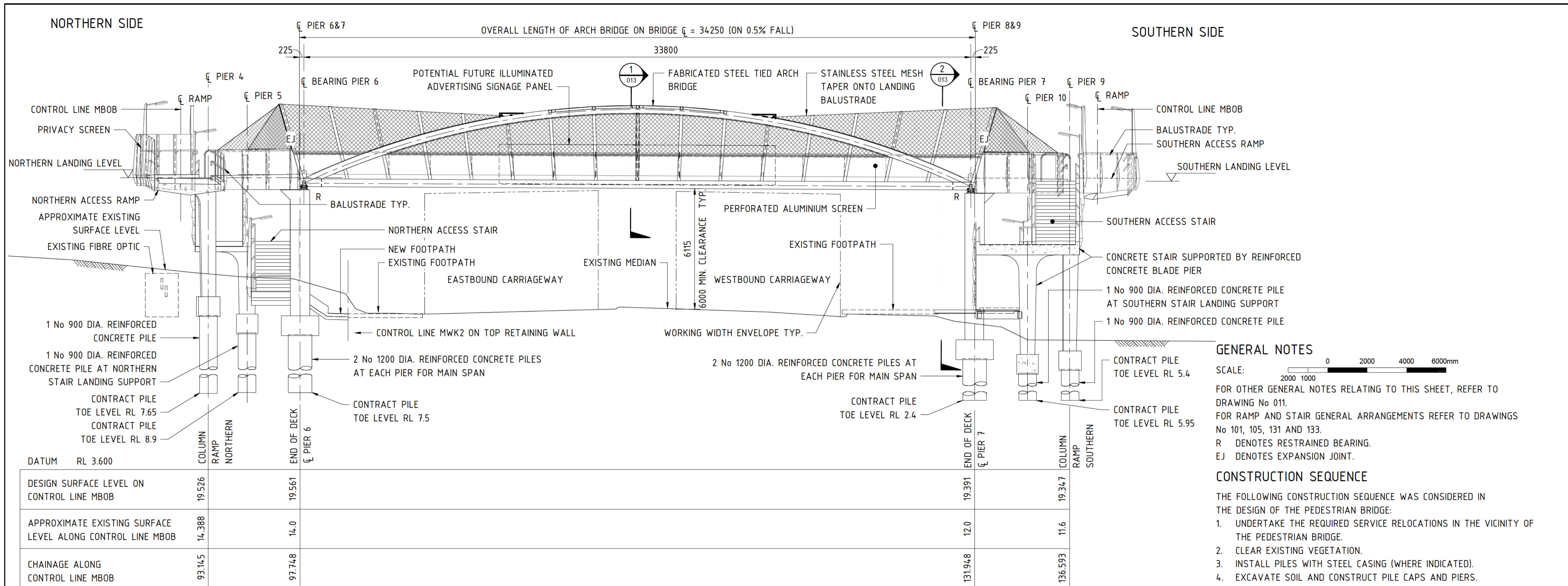
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5	26.02.19	ISSUED FOR TENDER	■	■	■
4	06.02.19	ISSUED FOR TENDER	■	■	■
3	26.10.18	ISSUED FOR 100% DETAILED DESIGN	■	■	■

MAIN ROAD No 82 CITY OF NEWCASTLE
SHARED PATH BRIDGE OVER MAIN ROAD No 82
0.5km EAST OF JESMOND

GENERAL ARRANGEMENT - SHEET A

DESIGN	PREPARED	CHECKED	DRAWING SET No.	DS 2018/001444
DRAWING	■	■	BRIDGE NUMBER	B12216
APPROVED/DESIGN QA RECORDS	■	■	ISSUE STATUS:	FOR TENDER
DIRECTOR	■	■	ISSUE	5
			No SHEETS	5
			SHEET No	011

AURECON PROJECT No: RP21-DW-BR-004-011 © COPYRIGHT ROADS AND MARITIME 2016

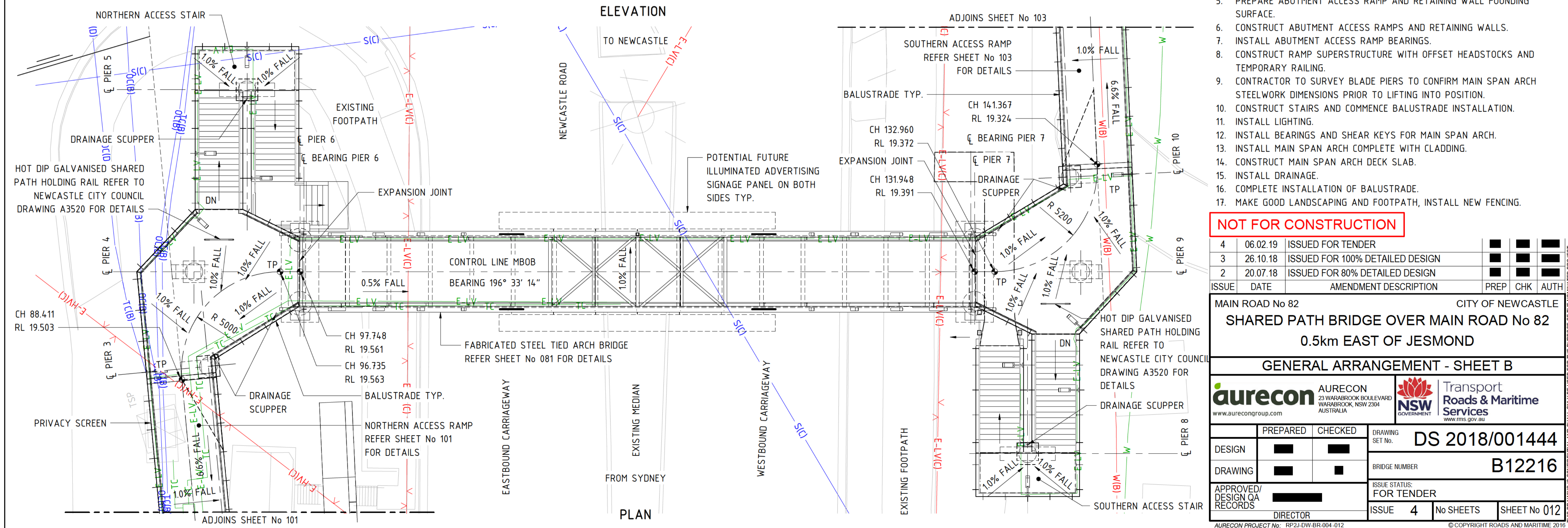


GENERAL NOTES

SCALE: 0 2000 4000 6000mm

FOR OTHER GENERAL NOTES RELATING TO THIS SHEET, REFER TO DRAWING No 011.
 FOR RAMP AND STAIR GENERAL ARRANGEMENTS REFER TO DRAWINGS No 101, 105, 131 AND 133.
 R DENOTES RESTRAINED BEARING.
 EJ DENOTES EXPANSION JOINT.

- CONSTRUCTION SEQUENCE**
- THE FOLLOWING CONSTRUCTION SEQUENCE WAS CONSIDERED IN THE DESIGN OF THE PEDESTRIAN BRIDGE:
1. UNDERTAKE THE REQUIRED SERVICE RELOCATIONS IN THE VICINITY OF THE PEDESTRIAN BRIDGE.
 2. CLEAR EXISTING VEGETATION.
 3. INSTALL PILES WITH STEEL CASING (WHERE INDICATED).
 4. EXCAVATE SOIL AND CONSTRUCT PILE CAPS AND PIERS.
 5. PREPARE ABUTMENT ACCESS RAMP AND RETAINING WALL FOUNDING SURFACE.
 6. CONSTRUCT ABUTMENT ACCESS RAMPS AND RETAINING WALLS.
 7. INSTALL ABUTMENT ACCESS RAMP BEARINGS.
 8. CONSTRUCT RAMP SUPERSTRUCTURE WITH OFFSET HEADSTOCKS AND TEMPORARY RAILING.
 9. CONTRACTOR TO SURVEY BLADE PIERS TO CONFIRM MAIN SPAN ARCH STEELWORK DIMENSIONS PRIOR TO LIFTING INTO POSITION.
 10. CONSTRUCT STAIRS AND COMMENCE BALUSTRADE INSTALLATION.
 11. INSTALL LIGHTING.
 12. INSTALL BEARINGS AND SHEAR KEYS FOR MAIN SPAN ARCH.
 13. INSTALL MAIN SPAN ARCH COMPLETE WITH CLADDING.
 14. CONSTRUCT MAIN SPAN ARCH DECK SLAB.
 15. INSTALL DRAINAGE.
 16. COMPLETE INSTALLATION OF BALUSTRADE.
 17. MAKE GOOD LANDSCAPING AND FOOTPATH, INSTALL NEW FENCING.



NOT FOR CONSTRUCTION

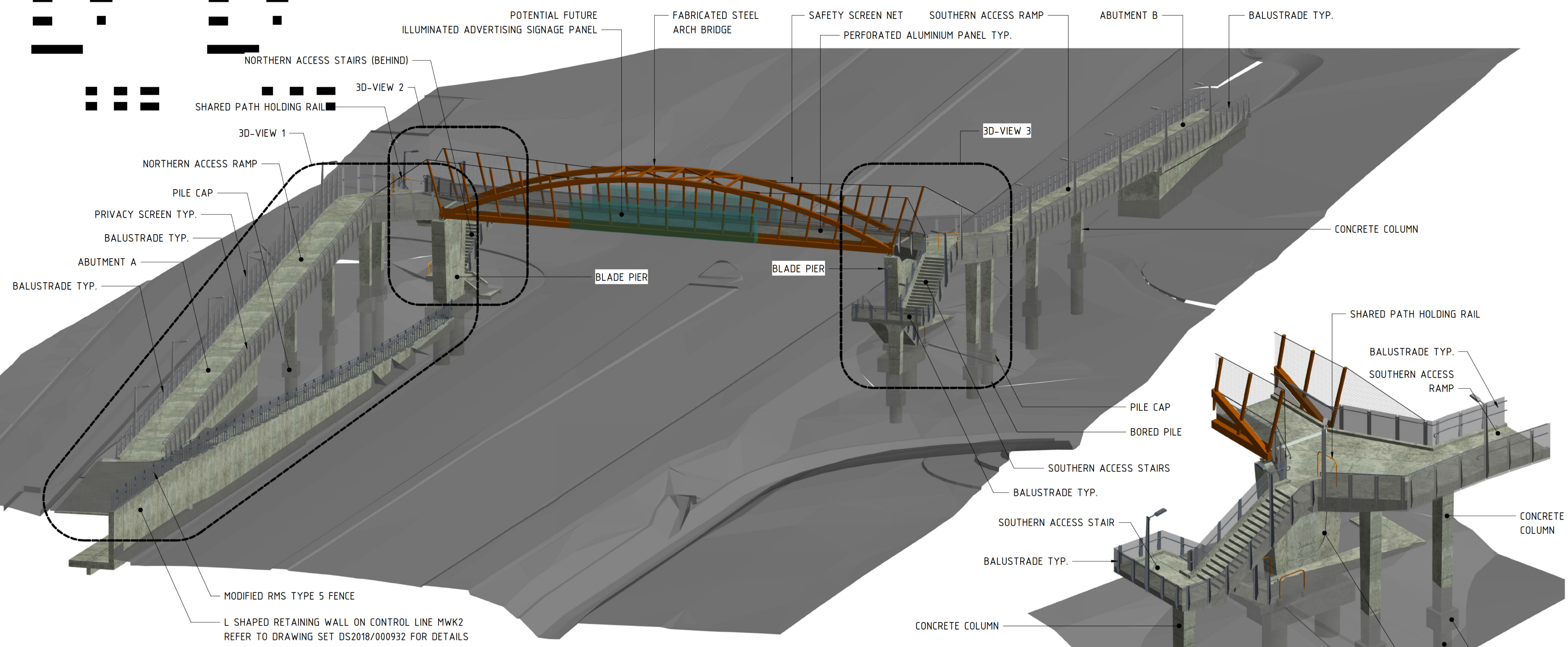
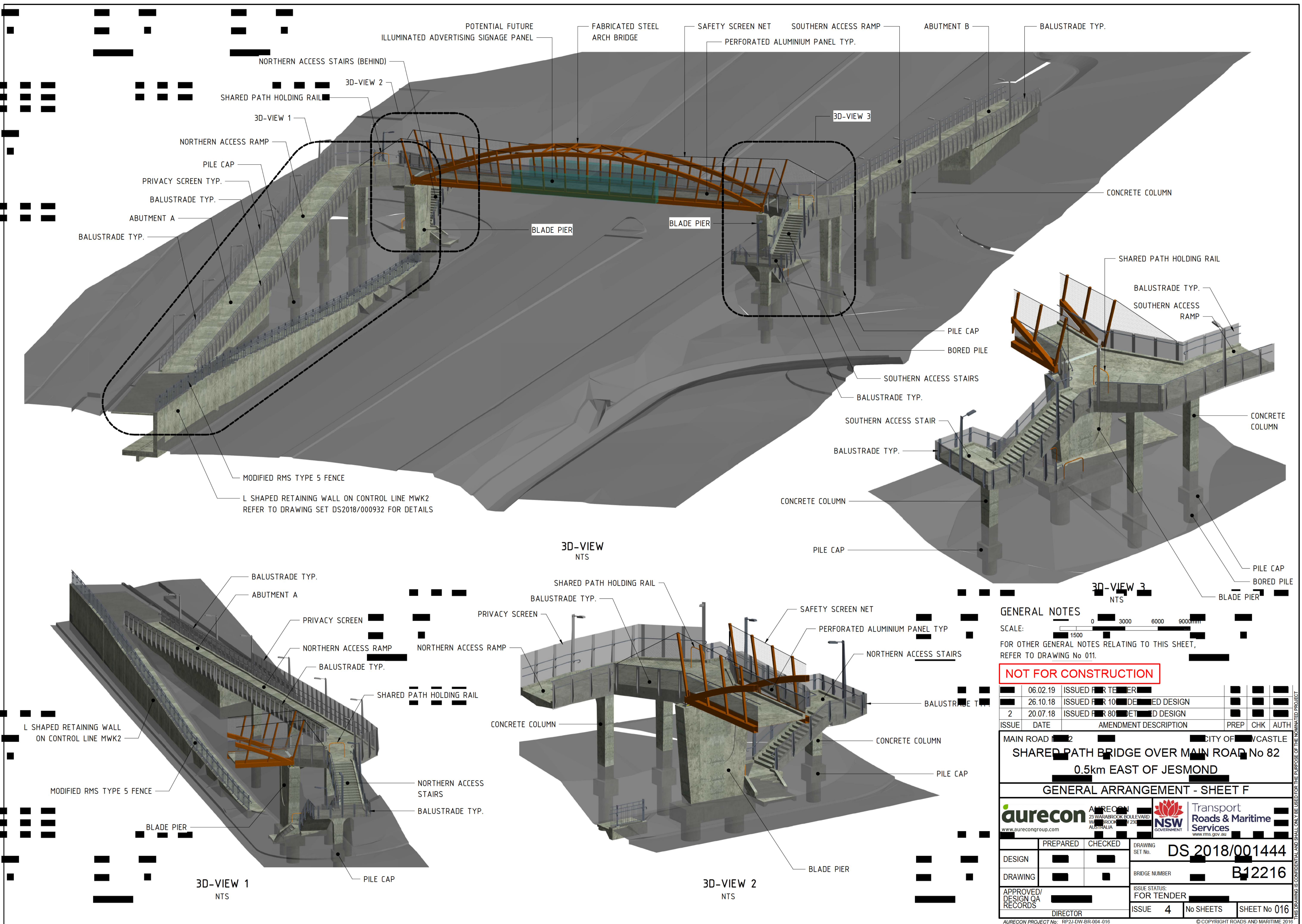
MAIN ROAD No 82 CITY OF NEWCASTLE
SHARED PATH BRIDGE OVER MAIN ROAD No 82
 0.5km EAST OF JESMOND

GENERAL ARRANGEMENT - SHEET B

aurecon AURECON 23 WARABROOK BOULEVARD WARABROOK, NSW 2364 AUSTRALIA
NSW TRANSPORT Roads & Maritime Services
 www.rms.gov.au

DESIGN	PREPARED	CHECKED	DRAWING SET No.	DS 2018/001444
DRAWING	■	■	BRIDGE NUMBER	B12216
APPROVED/DESIGN QA RECORDS	■	■	ISSUE STATUS:	FOR TENDER
DIRECTOR	■	■	ISSUE	4
			No SHEETS	12
			SHEET No	012

AURECON PROJECT No: RP21-DW-BR-004-012 © COPYRIGHT ROADS AND MARITIME 2016



GENERAL NOTES
 SCALE: 1:1500
 0 3000 6000 9000mm
 FOR OTHER GENERAL NOTES RELATING TO THIS SHEET, REFER TO DRAWING No 011.

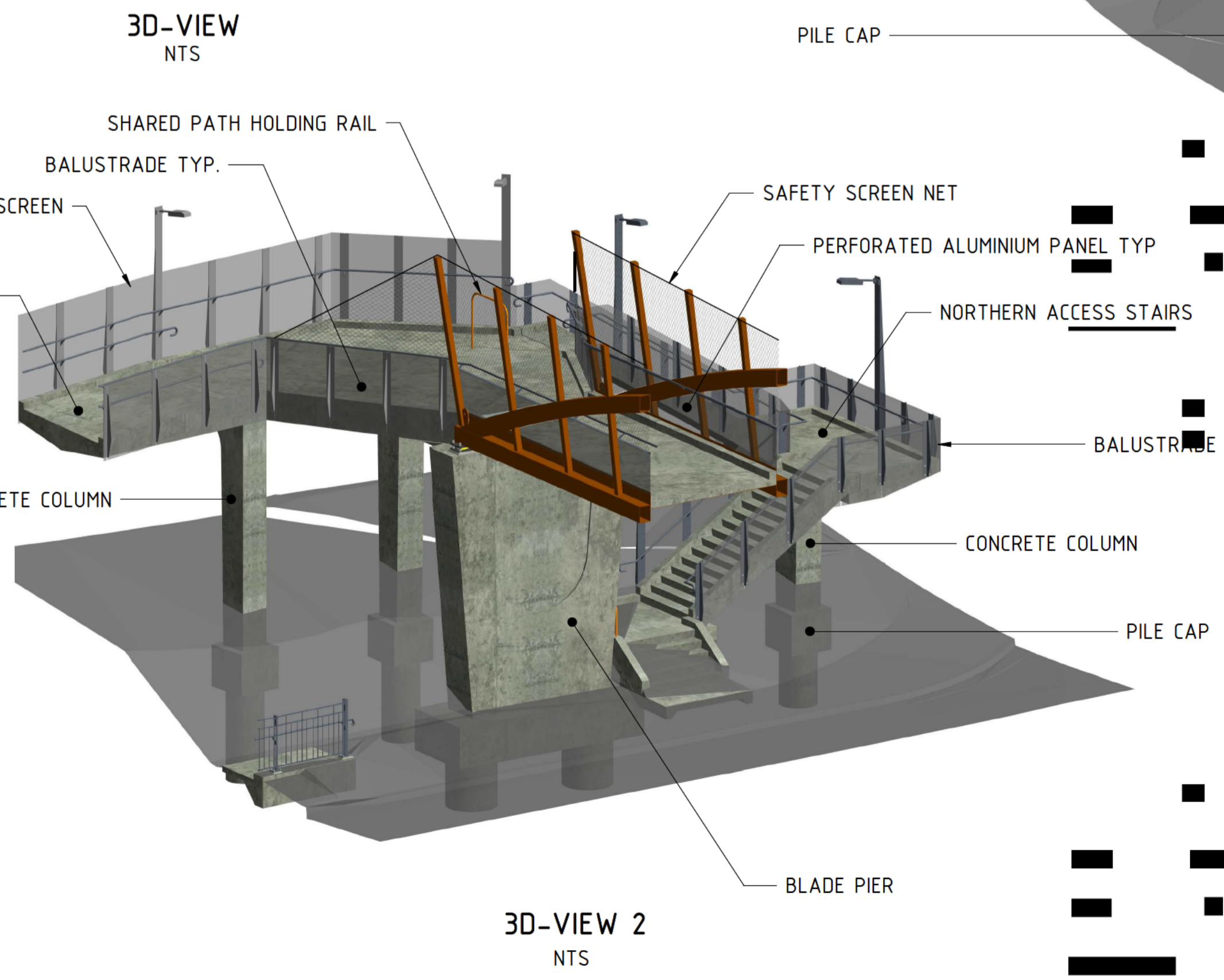
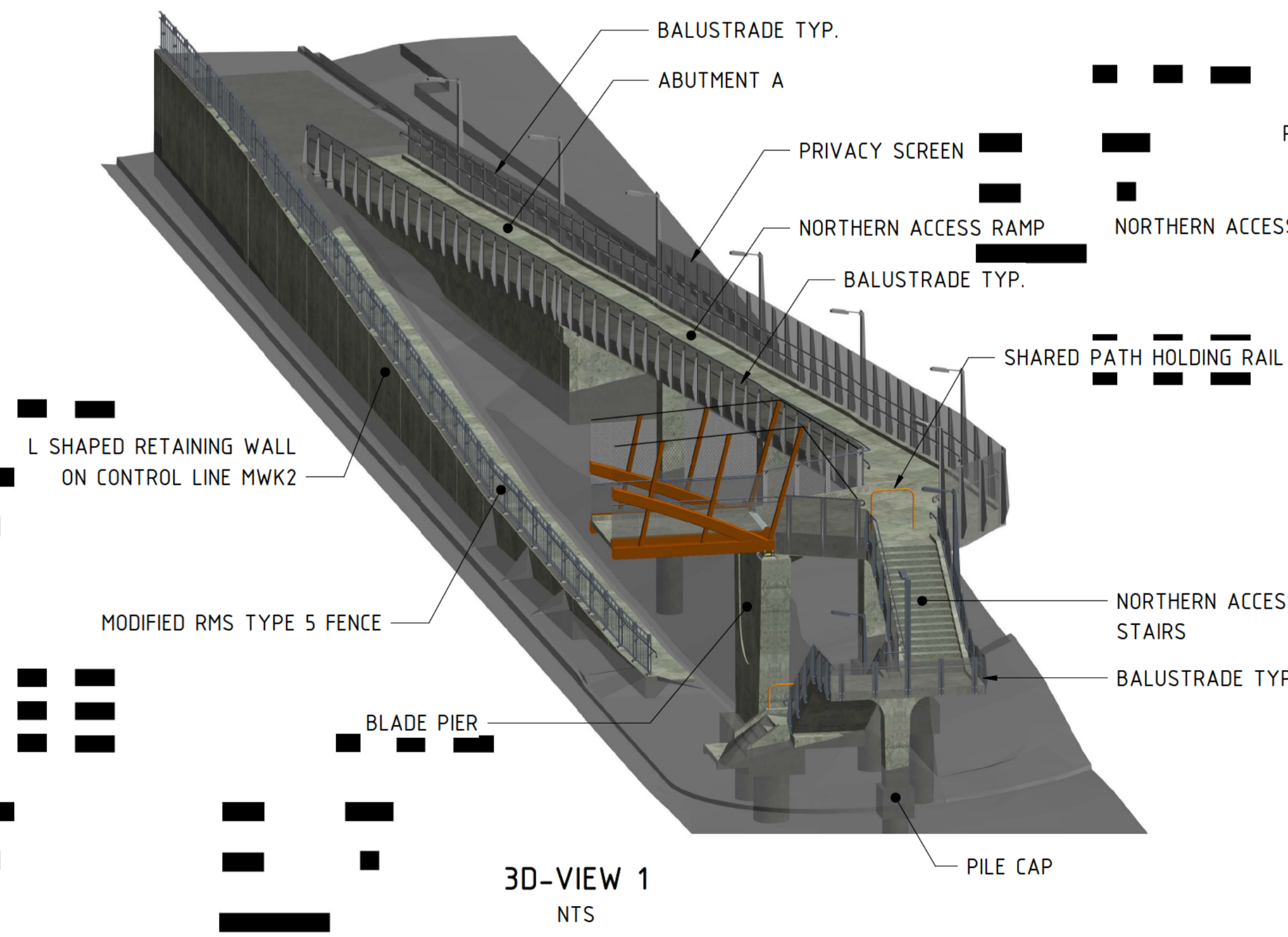
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ISSUE	DATE	AMENDMENT DESCRIPTION	PREP	CHK	AUTH
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2	26.10.18	ISSUED FOR 10% DEVELOPED DESIGN			
2	20.07.18	ISSUED FOR 80% DEVELOPED DESIGN			

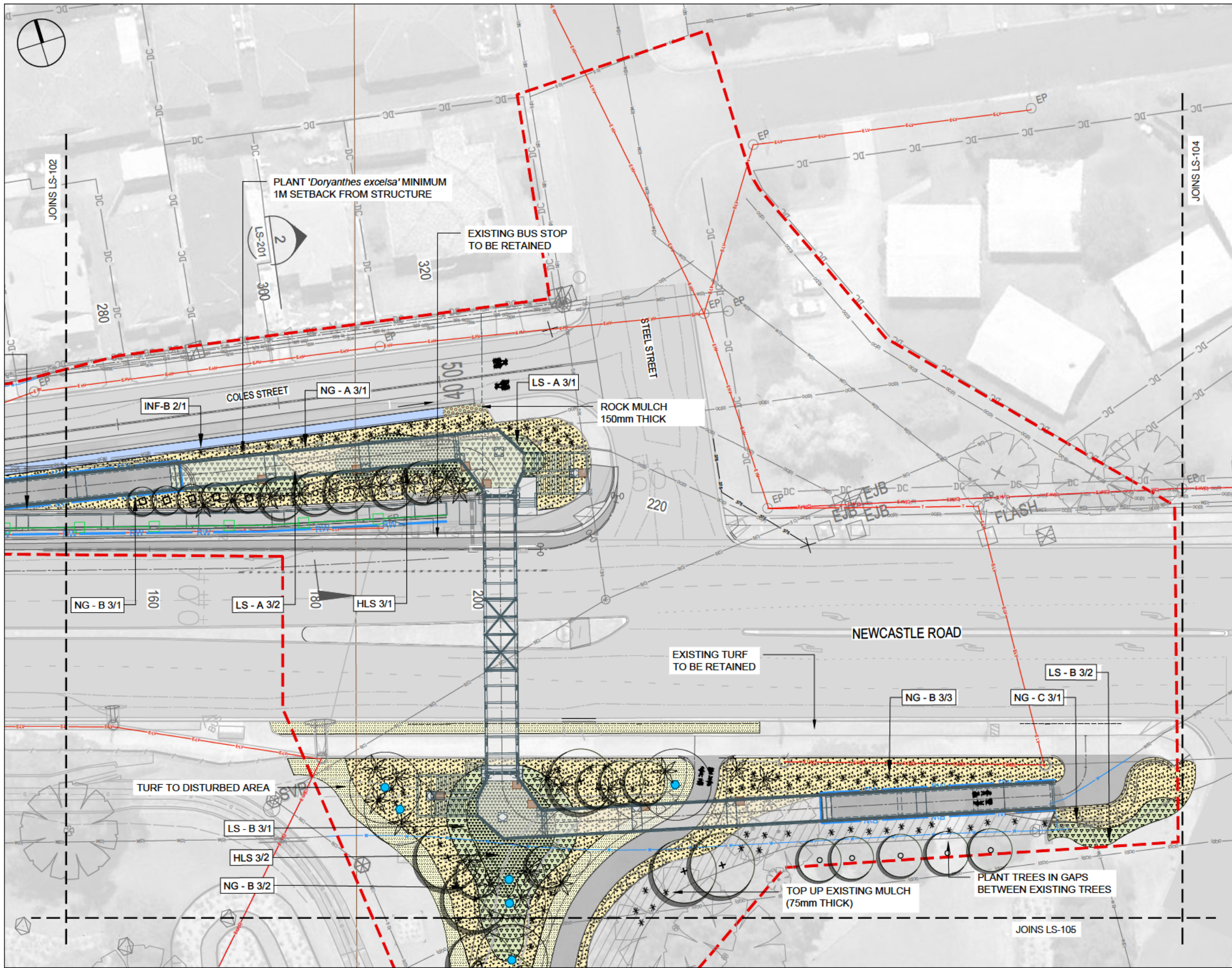
MAIN ROAD No 82 CITY OF VCASTLE
SHARED PATH BRIDGE OVER MAIN ROAD No 82
 0.5km EAST OF JESMOND
GENERAL ARRANGEMENT - SHEET F

DESIGN	PREPARED	CHECKED	DRAWING SET No.	DS 2018/001444	
DRAWING			BRIDGE NUMBER	B12216	
APPROVED/DESIGN QA RECORDS	DIRECTOR		ISSUE STATUS:	FOR TENDER	
			ISSUE	4	No SHEETS SHEET No 016

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LEGEND

EXISTING ELEMENTS

EXISTING TREES PROTECTED & RETAINED REFER 03/LS-0302

NOTE: FOR EXISTING TREES TO BE REMOVED REFER TO AURECON CLEARING PLAN

DC - PROPERTY BOUNDARY
 - - - PROJECT BOUNDARY

SURFACES & PLANTING

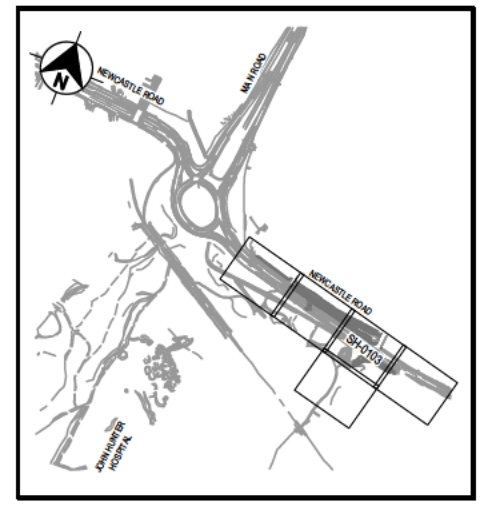
- TURF REFER TO DETAIL 01/LS-0301 - 75MM DEPTH TOPSOIL
- MASS PLANT NG BED TYPE 1 - (NATIVE GRASSES) REFER TO DETAIL LS 02,04/LS-0301 - 100MM TUBES PLANTED @ 6/M² - 150MM DEPTH TOPSOIL - 75MM DEPTH WOODCHIP MULCH
- MASS PLANT NG BED TYPE 2 - (LOW SHRUBS) REFER TO DETAIL LS 03,04/LS-0301 - TUBESTOCK PLANTED @ 1X1M - 150MM DEPTH TOPSOIL - 75MM DEPTH WOODCHIP MULCH
- MASS PLANT NG BED TYPE 3 - (HIGH/ LOW SHRUBS) REFER TO DETAIL LS 03,04/LS-0301 - TUBESTOCK PLANTED @ 1X1.5M - 150MM DEPTH TOPSOIL - 75MM DEPTH WOODCHIP MULCH
- SHRUB INTERPLANT NG AS SHOWN

WATER SENSITIVE DESIGN

- ROCK MULCH SWALE
- ROCK ENERGY DISSIPATORS - 1Mx1Mx1M, 75MMØ ROCKS, 200MM DEPTH TO DISSIPATE DOWNPIPE WATER

SPOT PLANTING
 REFER TO DETAILS IN LS-0302

- Brachycton acerifolius (45L)
- Eucalyptus punctata (45L)
- Callistemon viminalis CV01 (5L)(shrub)
- Livistona australis (45L)
- Corymbia maculata (45L)
- Podocarpus elatus (45L)
- * Doryanthes excelsa (5L) (shrub)
- Syncarpia glomulifera (45L)



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DRAWING FILE LOCATION / NAME Z:\KIAH INFRANET PROJECTS\18-03 Newcastle Bypass Early Works\F TECHNICAL DATA_FILES\F2b KIS Drawings\1803-KIS-DWG-LA-PLAN DESIGN.dwg		DESIGN LOT CODE 1803-KIS-DWG-LA-DEATAIL DESIGN	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING 1803-KIS-DWG-LA-DEATAIL DESIGN	PLOT DATE / TIME 23/01/2019 11 53 55 AM	PLOT BY [REDACTED]	CLIENT CITY OF NEWCASTLE HW23 NEWCASTLE INNER CITY BYPASS - EARLY WORKS SHARED PATH BRIDGE LANDSCAPE DESIGN SURFACES & INCIDENTAL WORKS
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	01 13/04/2018 20% Detailed Design 02 27/07/2018 80% Detailed Design 03 29/10/2018 100% Detailed Design 04 14/01/2019 IFT		CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	DESIGNER [REDACTED]	ISSUE STATUS ISSUED FOR TENDER
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					DESIGNER [REDACTED]	SHEET No. LS-103
					DESIGNER [REDACTED]	PART 1
					DESIGNER [REDACTED]	SHEET 3 OF 4
					DESIGNER [REDACTED]	ISSUE 04



LEGEND

EXISTING ELEMENTS

EXISTING TREES PROTECTED & RETAINED REFER 03/LS-0302

NOTE: FOR EXISTING TREES TO BE REMOVED REFER TO AURECON CLEAR NG PLAN

—DC— PROPERTY BOUNDARY
 ——— PROJECT BOUNDARY

SURFACES & PLANTING

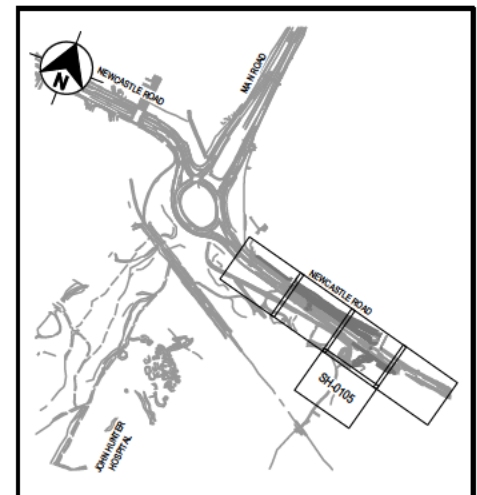
- TURF REFER TO DETAIL 01/LS-0301
 - 75MM DEPTH TOPSOIL
- MASS PLANT NG BED TYPE 1 - (NATIVE GRASSES)
 REFER TO DETA LS 02,04/LS-0301
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- MASS PLANT NG BED TYPE 2 - (LOW SHRUBS)
 REFER TO DETA LS 03,04/LS-0301
 - TUBESTOCK PLANTED @ 1X1M
 - 150MM DEPTH TOPSOIL
 - 75MM DEPTH WOODCHIP MULCH
- MASS PLANT NG BED TYPE 3 - (HIGH/ LOW SHRUBS)
 REFER TO DETA LS 03,04/LS-0301
 - TUBESTOCK PLANTED @ 1X1.5M
 - 150MM DEPTH TOPSOIL
 - 75MM DEPTH WOODCHIP MULCH
- SHRUB INTERPLANT NG AS SHOWN

WATER SENSITIVE DESIGN

- ROCK MULCH SWALE
- ROCK ENERGY DISSIPATORS
 - 1Mx1Mx1M; 75MMØ ROCKS,
 200MM DEPTH TO DISSIPATE DOWNPIPE WATER

**SPOT PLANTING
 REFER TO DETAILS IN LS-0302**

- Brachychiton acerifolius (45L)
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- Livistona australis (45L)
- Corymbia maculata (45L)
- Podocarpus elatus (45L)
- Doryanthes excelsa (5L)(shrub)
- Syncarpia glomulifera (45L)





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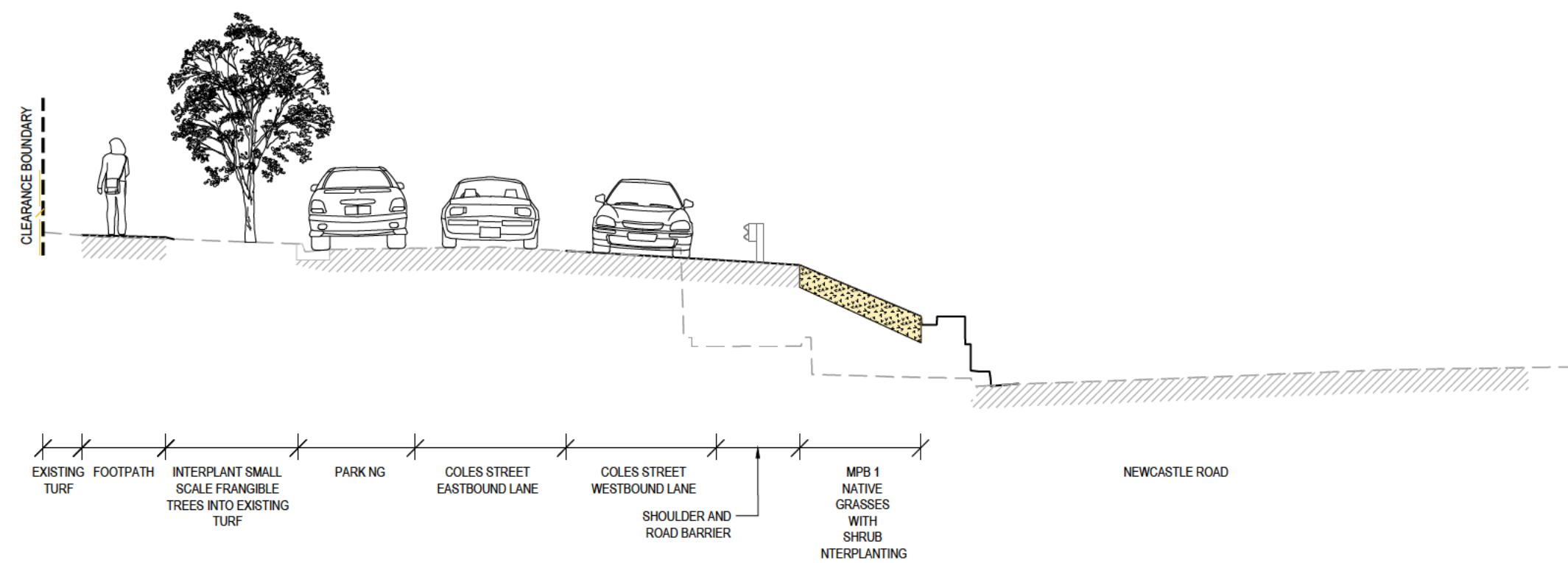
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	02	27/07/2018	80% Detailed Design				DESIGNER	DRG CHECK			
	03	29/10/2018	100% Detailed Design				level 3 studio 3 the cooorage 56 bowman street pymont nsw 2009 australia t 61 2 9571 7900 e info@kistudio.com.au www.kistudio.com.au	DESIGN			
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							HEIGHT DATUM AHD	DESIGN MNGR			
								PROJECT MNGR			
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ISSUE STATUS ISSUED FOR TENDER								EDMS No. EDMS NUMBER	SHEET No. LS-105		04
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LEGEND

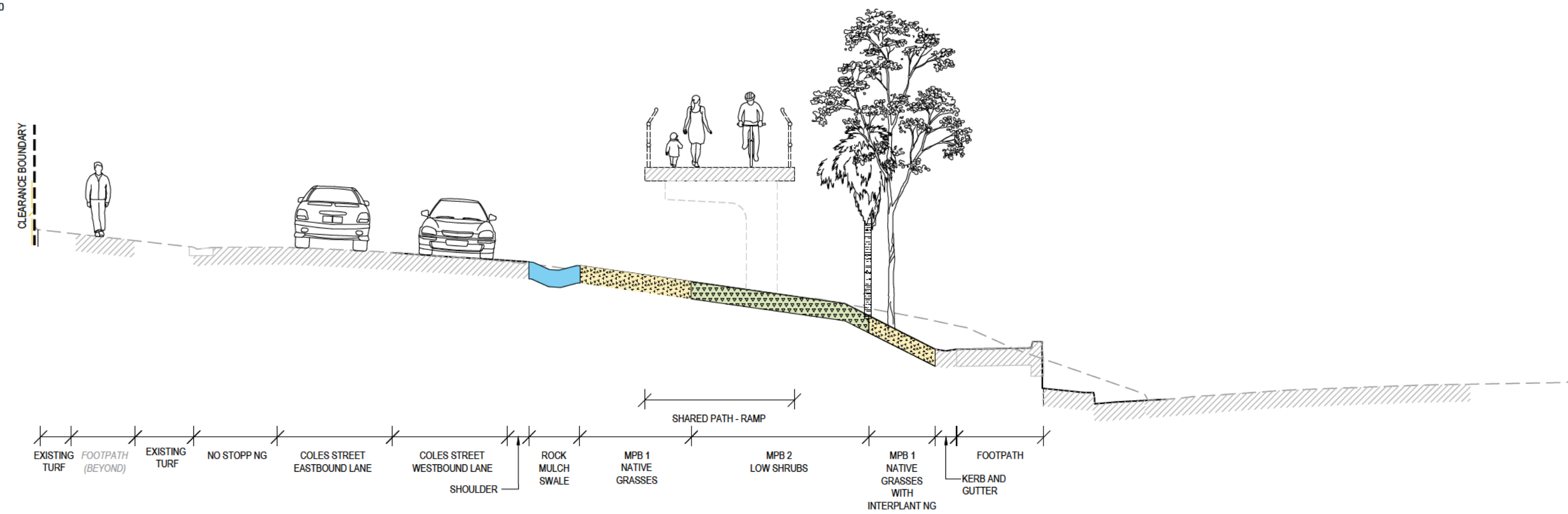
-  CLEARANCE BOUNDARY
-  FENCE

SURFACES & PLANTING

-  MASS PLANTING BED TYPE 1 - (NATIVE GRASSES)
-  MASS PLANTING BED TYPE 2 - (LOW SHRUBS)
-  MASS PLANTING BED TYPE 3 - (HIGH/ LOW SHRUBS)
-  ROCK MULCH SWALE



1 SECTION AT CHAINAGE 160
LS-102 SCALE 1:100



2 SECTION AT CHAINAGE 300
LS-103 SCALE 1:100

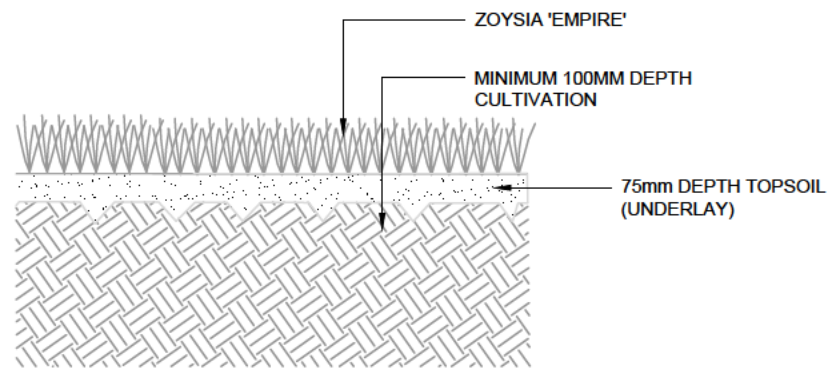
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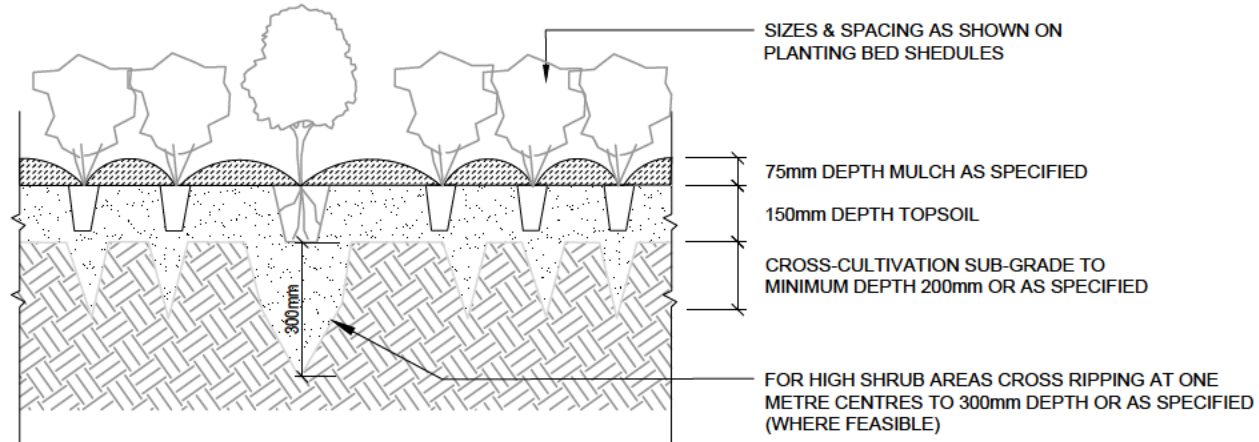
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02	27/07/2018	80% Detailed Design					
03	29/10/2018	100% Detailed Design					
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				DESIGNER		EDMS No. EDMS NUMBER	
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				DESIGNER		ISSUE No. 04	
				DESIGNER		© Roads and Maritime Services	



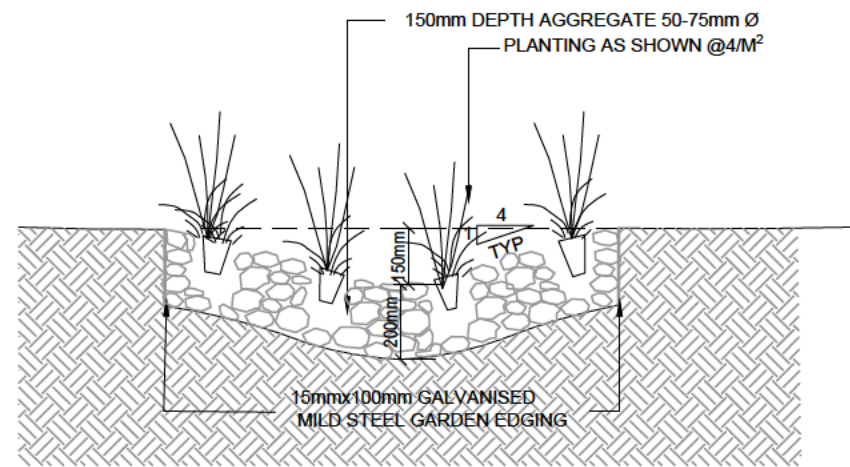
SHEET 1 OF 1
PART 1



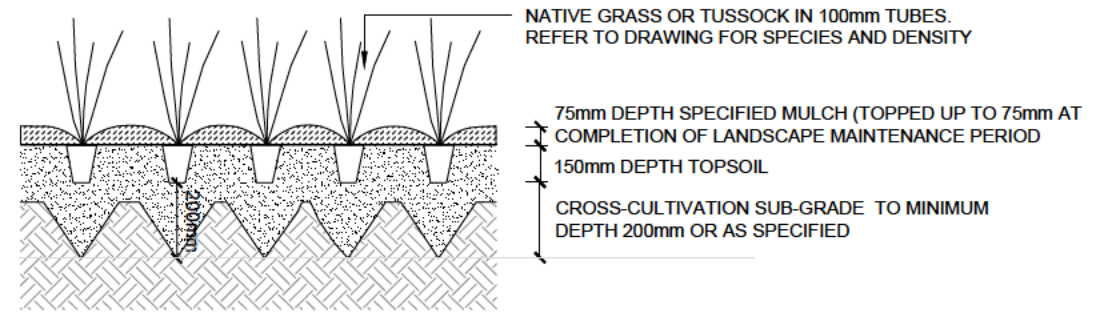
01 DETAIL
SCALE 1:20
TURF



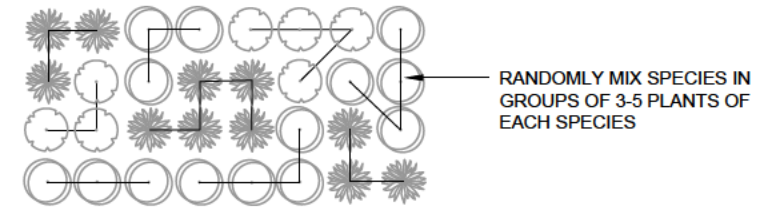
03 DETAIL
SCALE 1:20
MASS PLANTING BED TYPES 2 & 3
(NATIVE GRASSES & LOW SHRUBS & HIGH/ LOW SHRUBS)



05 DETAIL
SCALE 1:20
ROCK MULCH SWALE



02 DETAIL
SCALE 1:20
MASS PLANTING BED TYPE 1
(NATIVE GRASSES & TUSSOCKS)

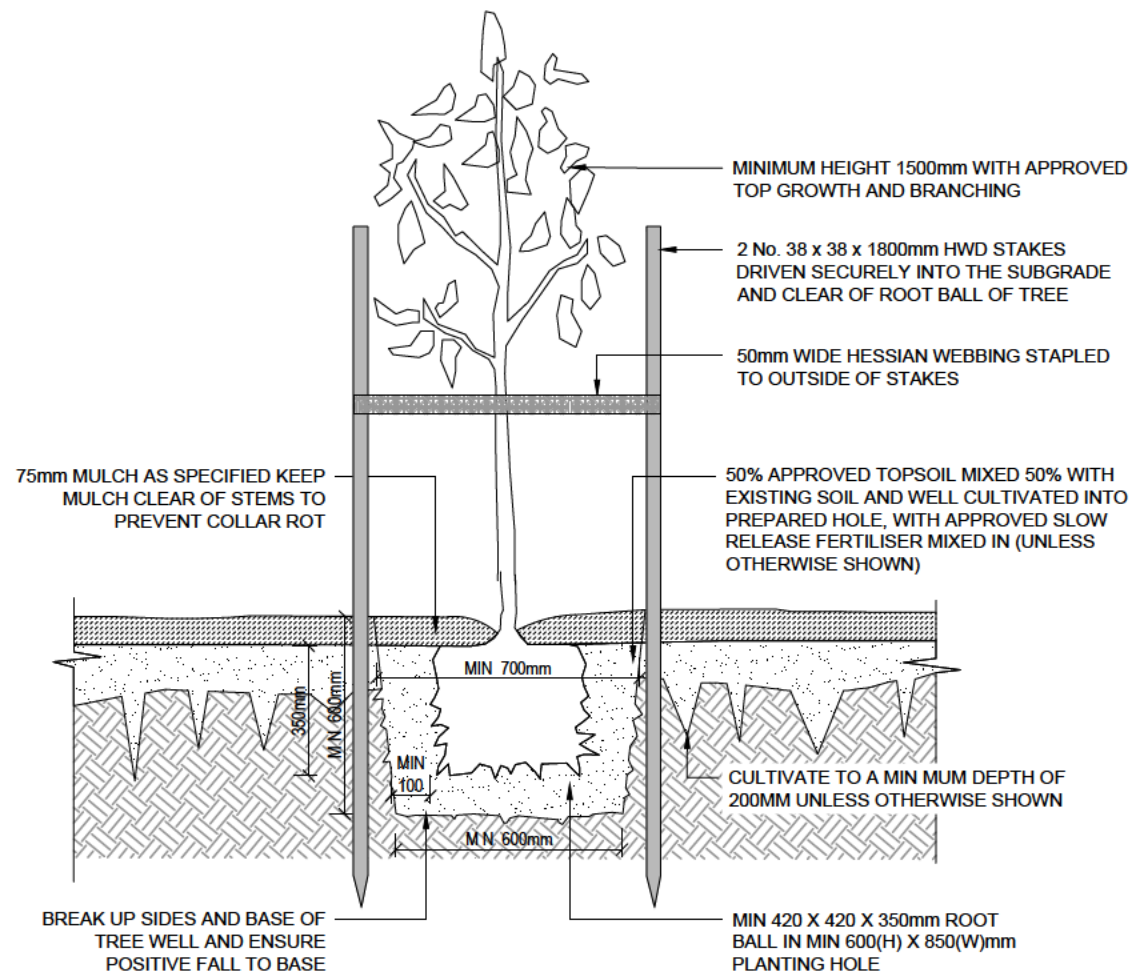


04 DETAIL
SCALE 1:50
RANDOM MIX PLANTING IN
MASS PLANTING BEDS

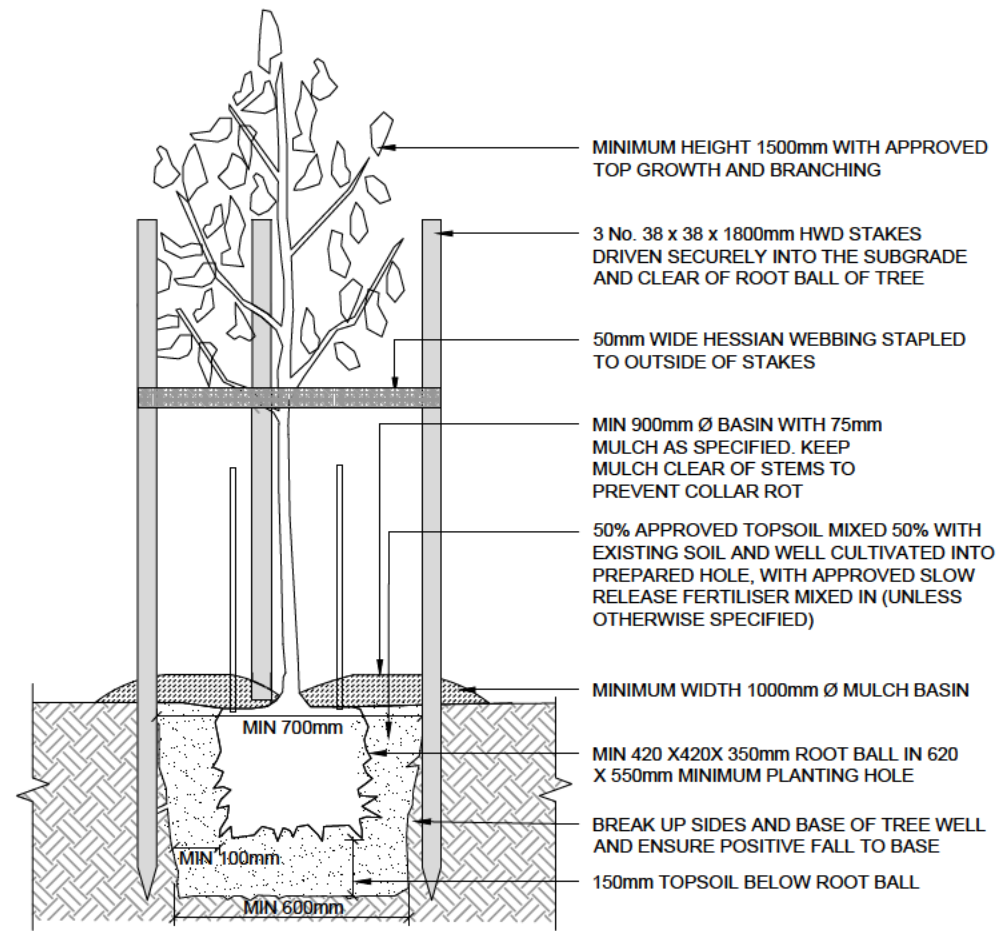
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50mm ON A3 SIZE ORIGINAL

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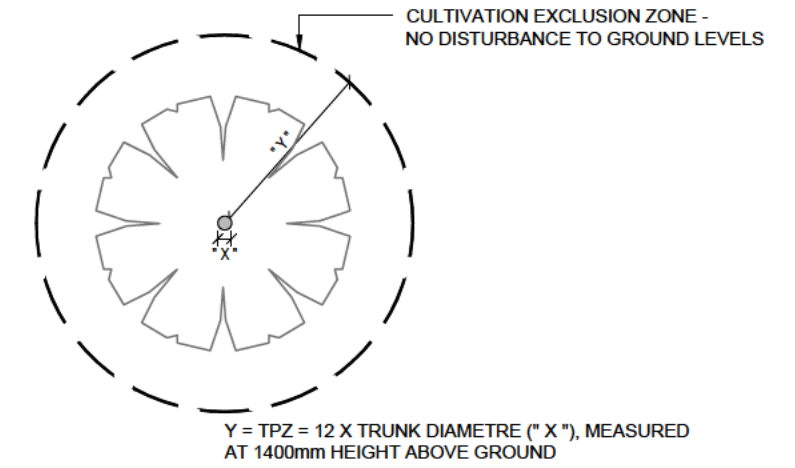
DRAWING FILE LOCATION / NAME Z:\KIAH INFRANET PROJECTS\18-03 Newcastle Bypass Early Works\IF TECHNICAL DATA_FILES\F2 CAD Drawings\F2b KIS Drawings\1803-KIS-DWG-DETAILS.dwg			DESIGN LOT CODE	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING 1803-KIS-DWG-LA-DETAILED DESIGN			PLOT DATE / TIME 14/01/2019 2:57:34 PM	PLOT BY	CLIENT	CITY OF NEWCASTLE HW23 NEWCASTLE INNER CITY BYPASS - EARLY WORKS SHARED PATH BRIDGE LANDSCAPE DESIGN MASS PLANTING BEDS	A3																																				
EXTERNAL REFERENCE FILES			WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY		TITLE	NAME	DATE																																					
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© Roads and Maritime Services																																															



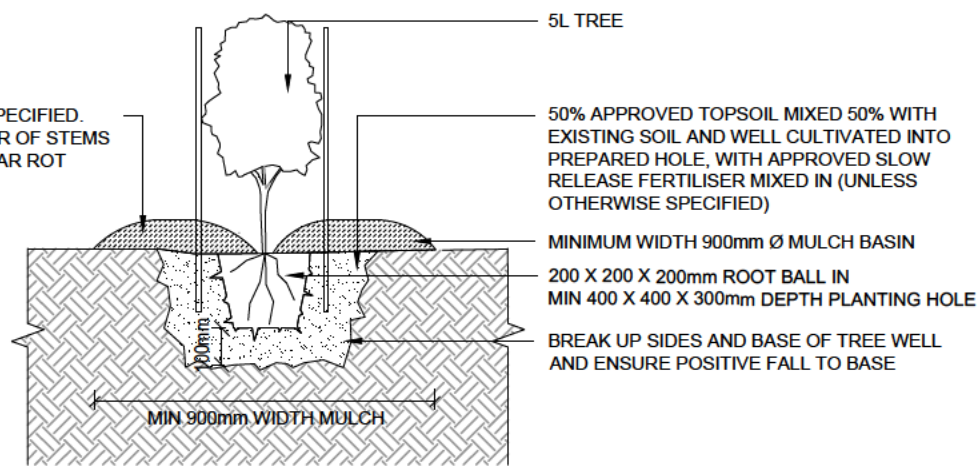
01 DETAIL
SCALE 1:20
45L TREE IN MASS PLANTING BED



02 DETAIL
SCALE 1:20
45L SPOT TREE PLANTING



03 DETAIL
SCALE 1:200
INDIVIDUAL TREE & TREE PROTECTION ZONE



04 DETAIL
SCALE 1:20
5L SPOT TREE PLANTING

NOT FOR CONSTRUCTION

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

15mm ON A3 SIZE ORIGINAL

DRAWING FILE LOCATION / NAME Z:\KIAH\INFRANET\PROJECTS\18-03 Newcastle Bypass Early Works\F\TECHNICAL_DATA_FILES\F2\CAD Drawings\F2b KIS Drawings\1803-KIS-DWG-DETAILS.dwg		DESIGN LOT CODE	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING 1803-KIS-DWG-LA-DETAILED DESIGN	PLOT DATE / TIME 14/01/2019 2:57:44 PM	PLOT BY	CLIENT CITY OF NEWCASTLE HW23 NEWCASTLE INNER CITY BYPASS - EARLY WORKS SHARED PATH BRIDGE LANDSCAPE DESIGN TREE PLANTING & TREE PROTECTION	A3
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	RMS REGISTRATION No. DS2018/000932	PART 1
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	02	27/07/2018	60% Detailed Design			EDMS No.	SHEET No. LS-0302
	03	29/10/2018	100% Detailed Design			EDMS NUMBER	
	04	14/01/2019	IFT				
SCALES ON A3 SIZE DRAWING		DRAWINGS / DESIGN PREPARED BY		TITLE		SHEET 2 OF 2	
0 200 400 600 800 SCALE 1:200mm		CONTRACTOR		DRAWN			
0 2 4 6 8 SCALE 1:200mm		DESIGNER KT STUDIO level 3 studio 3 the coopage 58 loomans street pyrmont new 2009 australia t 61 2 9571 7900 e info@ktstudio.com.au www.ktstudio.com.au		DRG CHECK			
CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		DESIGN			
				DESIGN CHECK			
				DESIGN MNGR			
				PROJECT MNGR			