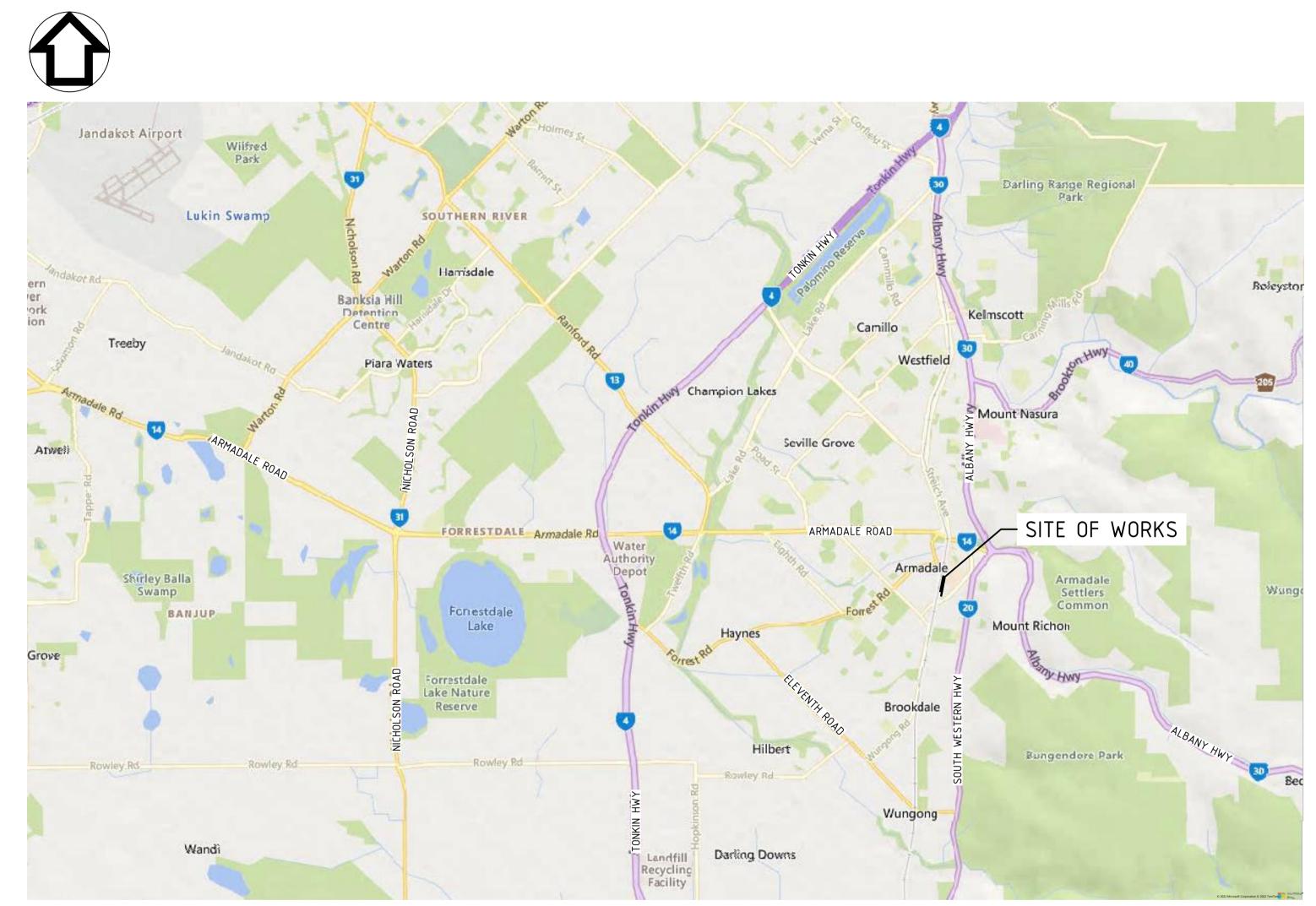
Appendix E: Civil Development Plans



BYFORD RAIL EXTENSION

ENABLING WORKS - TEMPORARY BUS INTERCHANGE CITY OF ARMADALE

		DRAWING INDEX
PTA DRAWING No.	METCONNX DRAWING No.	TITLE
I1-C-01-0035	R30-MET-DWG-CI-001-01000	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX
11-C-01-0036	R30-MET-DWG-CI-001-01001	SITE PLAN AND GENERAL NOTES
11-C-04-0025	R30-MET-DWG-CI-001-01002	OVERALL LAYOUT PLAN
11-C-04-0038	R30-MET-DWG-CI-001-02000	TYPICAL CROSS SECTIONS
11-C-04-0026	R30-MET-DWG-CI-001-02500	TYPICAL DETAILS - SHEET 1
11-C-04-0027	R30-MET-DWG-CI-001-02501	TYPICAL DETAILS - SHEET 2
11-C-04-0028	R30-MET-DWG-CI-001-02502	TYPICAL DETAILS - SHEET 3
11-C-04-0029	R30-MET-DWG-CI-001-02503	TYPICAL DETAILS - SHEET 4
11-C-04-0030	R30-MET-DWG-CI-001-02504	TYPICAL DETAILS - SHEET 5
11-C-04-0031	R30-MET-DWG-CI-001-02505	TYPICAL DETAILS - SHEET 6
11-C-15-0085	R30-MET-DWG-CI-001-03000	DEMOLITION PLAN - SHEET 1
11-C-15-0086	R30-MET-DWG-CI-001-03001	DEMOLITION PLAN - SHEET 2
11_C_15_0087	R30-MET-DWG-CI-001-03100	EARTHWORKS CUT AND FILL PLAN
11-C-23-0065	R30-MET-DWG-CI-001-04000	DRAINAGE LAYOUT PLAN - SHEET 1
11-C-23-0066	R30-MET-DWG-CI-001-04001	DRAINAGE LAYOUT PLAN - SHEET 2
11-C-23-0067	R30-MET-DWG-CI-001-04100	DRAINAGE CATCHMENT PLAN - SHEET 1
11-C-18-0160	R30-MET-DWG-CI-001-05000	ROAD LAYOUT PLAN - SHEET 1
 1-C-18-0161	R30-MET-DWG-CI-001-05001	ROAD LAYOUT PLAN - SHEET 2
 1-C-15-0088	R30-MET-DWG-CI-001-05002	BUS LAYOUT AND ARRANGEMENT PLAN - SHEET 1
11-C-15-0089	R30-MET-DWG-CI-001-05003	BUS LAYOUT AND ARRANGEMENT PLAN - SHEET 2
 1-C-15-0090	R30-MET-DWG-CI-001-05004	BUS LAYOUT AND ARRANGEMENT PLAN - SHEET 3
11-C-15-0091	R30-MET-DWG-CI-001-05005	BUS LAYOUT AND ARRANGEMENT PLAN - SHEET 4
 1-C-15-0092	R30-MET-DWG-CI-001-05006	BUS LAYOUT AND ARRANGEMENT PLAN - SHEET 5
11-C-15-0093	R30-MET-DWG-CI-001-05007	BUS LAYOUT AND ARRANGEMENT PLAN - SHEET 6
11-C-15-0094	R30-MET-DWG-CI-001-05008	BUS LAYOUT AND ARRANGEMENT PLAN - SHEET 7
I1-C-16-0001	R30-MET-DWG-CI-001-05100	LEVELS, LAYOUT AND GRADING PLAN
I1-C-08-0010	R30-MET-DWG-CI-001-05900	TURNING TEMPLATES PLAN - SHEET 1
11-C-08-0011	R30-MET-DWG-CI-001-05901	TURNING TEMPLATES PLAN - SHEET 2
I1-C-18-0162	R30-MET-DWG-CI-001-07000	PAVEMENT AND SURFACING PLAN - SHEET 1
11-C-18-0163	R30-MET-DWG-CI-001-07001	PAVEMENT AND SURFACING PLAN - SHEET 2
11-C-18-0164	R30-MET-DWG-CI-001-09000	PAVEMENT MARKING AND SIGNAGE PLAN - SHEET 1
 1-C-18-0165	R30-MET-DWG-CI-001-09001	PAVEMENT MARKING AND SIGNAGE PLAN - SHEET 2
I1-C-18-0166	R30-MET-DWG-CI-001-11000	COMBINED UTILITIES PLAN
11-C-19-0001	R30-MET-DWG-CI-001-02510	ENABLING WORKS - CIVIL WORKS - RETAINING WALL AND FENCING - GENERAL NOTES - SHEET 1
I1-C-19-0002	R30-MET-DWG-CI-001-02511	ENABLING WORKS - CIVIL WORKS - RETAINING WALL AND FENCING - GENERAL NOTES - SHEET 2
11-C-19-0003	R30-MET-DWG-CI-001-02512	ENABLING WORKS - CIVIL WORKS - RETAINING WALL AND FENCING - GENERAL ARRANGEMENT PLAN - SHEE
I1-C-19-0004	R30-MET-DWG-CI-001-02513	ENABLING WORKS - CIVIL WORKS - RETAINING WALL AND FENCING - GENERAL ARRANGEMENT PLAN - SHEE
11-C-19-0005	R30-MET-DWG-CI-001-02514	ENABLING WORKS - CIVIL WORKS - RETAINING WALL AND FENCING DETAILS - ELEVATIONS
I1-C-19-0006	R30-MET-DWG-CI-001-02515	ENABLING WORKS - CIVIL WORKS - RETAINING WALL AND FENCING DETAILS - SECTIONS - SHEET 1
11-C-19-0007	R30-MET-DWG-CI-001-02516	ENABLING WORKS - CIVIL WORKS - RETAINING WALL AND FENCING DETAILS - SECTIONS - SHEET 2
11-C-19-0008	R30-MET-DWG-CI-001-02517	ENABLING WORKS - CIVIL WORKS - RETAINING WALL AND FENCING DETAILS - SECTIONS - SHEET 3
11-C-19-0009	R30-MET-DWG-CI-001-02518	ENABLING WORKS - CIVIL WORKS - RETAINING WALL AND FENCING DETAILS - SECTIONS - SHEET 4
11_C_19_0010	R30-MET-DWG-CI-001-02519	ENABLING WORKS - CIVIL WORKS - RETAINING WALL AND FENCING DETAILS - SHEET 1



LOCALITY PLAN

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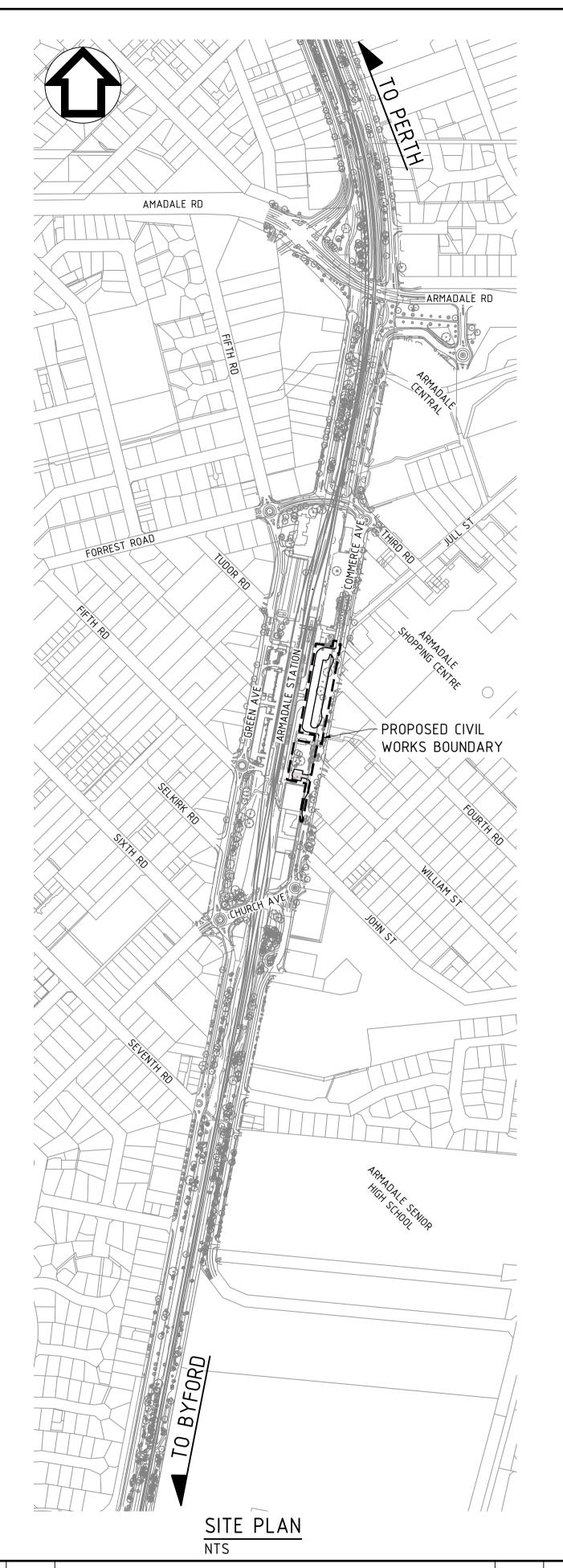


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	ENABLING WORKS								
	CIVIL WORKS - TEMPORARY BUS INTERCHANGE								
	COVER SHEET AND LOCA	LITY PLAN							
22	PTA Drawing No:	11-C-01-0035	Rev: B.1						

AT ORIGINAL PLOT SIZE

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GENERAL NOTES

- 1. ALL DIMENSIONS IN METRES UNLESS OTHERWISE NOTED.
- 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATION AND ALSO THE REQUIREMENTS OF THE CITY OF ARMADALE.

4. ALL HEIGHTS ARE TO AUSTRALIAN HEIGHT DATUM (AHD) AND ALL LEVELS SHALL

- 3. REFER TO DESIGN REPORT FOR ALL PROPOSED DESIGN PARAMETERS.
- BE DERIVED FROM ESTABLISHED BENCHMARKS.
- 5. ALL BENCHMARKS ARE TO BE PROTECTED AND PRESERVED UNLESS NOTED ON PLANS.
- 6. ALL CO-ORDINATES, LEVELS AND QUANTITIES SHOWN ON THESE DRAWING SHALL BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT IMMEDIATELY
- 7. DESIGN LEVELS DEVELOPED FROM LAND SURVEYS FEATURE SURVEY USING MOBILE LASER SCANNING COMPLETED FEBRUARY 2021 ON BEHALF OF THE PUBLIC TRANSPORT AUTHORITY (PTA) AND ALSO PUBLIC INFORMATION LIDAR SURVEY. LEVELS ARE SUBJECT TO CONFIRMATION THROUGH PROJECT FEATURE SURVEY CURRENTLY BEING UNDERTAKEN.
- 8. EXISTING SERVICES DEVELOPED FROM LAND SURVEYS, UNDERGROUND UTILITIES, MAPPING SURVEY USING GROUND PENETRATING RADAR, LAND SURVEYS FEATURE SURVEY, DIAL-BEFORE-YOU-DIG, ESINET, AND LOCAL GOVERNMENT DATA.
- 9. THE CONTRACTOR SHALL LIAISE WITH ALL RELEVANT AUTHORITIES TO LOCATE ALL EXISTING SERVICES WITHIN THE CONTRACT AREA PRIOR TO THE COMMENCEMENT OF WORK. SERVICES INFORMATION SHOWN ON THE DRAWINGS IS INDICATIVE ONLY AND MAY NOT BE COMPLETE. WHERE EXISTING AND PROPOSED WORKS CONFLICT, LEVELS ARE TO BE TAKEN AND SUPPLIED TO THE SUPERINTENDENT IMMEDIATELY FOR
- 10. REFER TO PACKAGE UT-040 FOR ALL PUBLIC UTILITY CONSIDERATIONS AND MODIFICATION REQUIREMENTS. FOR ALL INTERNAL PTA SERVICES, REFERENCE SHALL BE MADE TO RESPECTIVE SERVICE DISCIPLINE DESIGNS RELATED TO THIS WORKS PACKAGE.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPORT OF ALL EXISTING SERVICES. ALL SEWERS SHALL BE PROVIDED WITH EITHER TIMBER BEARERS OR KEEL WITH TIMBER PILES AS REQUIRED.
- 12. ALL EXCESS EXCAVATED MATERIAL AND DEMOLISHED MATERIAL SHALL BE DISPOSED OF OFFSITE IN ACCORDANCE WITH THE CONSTRUCTION AND ENVIRONMENTAL MANAGEMENT PLAN.
- 13. FOR BUILDING SERVICE DESIGN, REFER TO MECHANICAL, ELECTRICAL, HYDRAULIC AND COMMUNICATIONS DESIGNS AS COMPLETED BY NDY ENGINEERING CONSULTANTS.
- 14. TEMPORARY FACILITIES ARE BASED ON SUPPLY AND INSTALLATION OF TRANSPORTABLE TYPE BUILDINGS. THESE SHALL BE COORDINATED BY THE CONTRACTOR TO SUIT STAKEHOLDER REQUIREMENTS, WITH CONNECTION TO SERVICES ON SITE IN ACCORDANCE WITH RESPECTIVE SERVICE PLANS. TEMPORARY BUILDING DESIGN IS UNDER DEVELOPMENT AND BEING COORDINATED WITH THE PTA.
- 15. ALL TREES SHOWN TO BE PROTECTED SHALL BE PROTECTED IN ACCORDANCE WITH THE REQUIREMENTS AS PROVIDED BY THE PROJECT ARBORICULTURALIST. ALL TREES TO BE REMOVED ARE TO BE IDENTIFIED BY THE PROJECT ARBORIST PRIOR
- 16. ALL BUS SHELTERS TO BE JASON SIGNMAKERS JSE SINGLE SIDED BUS SHELTERS. CONTRACTOR TO SOURCE SHELTERS AND ASSOCIATED FOOTING DETAILS FROM JASON SIGNS.
- 17. 'AS CONSTRUCTED' DRAWINGS ARE TO BE PREPARED TO THE REQUIREMENTS OF PTA/TRANSPERTH.
- 18. REFER TO STRUCTURAL DRAWINGS FOR ALL RETAINING WALL, FENCING, BUS SHELTER AND FOOTING REQUIREMENTS.
- 19. REFER TO SERVICING DRAWINGS FOR ALL ELECTRICAL, COMMUNICATION AND HYDRAULIC DETAILS.
- 20. REFER TO LANDSCAPE DRAWINGS FOR ALL TREE RETENTION AND LANDSCAPE

DEMOLITION NOTES

MBS I

This document must not be copied without PTA's written

permission, and the contents thereof must not be imparted

to a third party nor be used for any unauthorised purpose.

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- 1. ALL DEMOLITION DRAWINGS ARE TO BE READ IN CONJUNCTION WITH SPECIFICATION AND OTHER RELEVANT DRAWINGS.
- 2. GEOTECHNICAL INVESTIGATION BEING UNDERTAKEN AT THE TIME OF THE DRAWING. THE CONTRACTOR SHALL ENSURE THAT ALL SITE WORKS ARE UNDERTAKEN IN ACCORDANCE WITH THE GEOTECHNICAL RECOMMENDATIONS.
- 3. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY REQUIRED FEES PRIOR TO COMMENCING DEMOLITION.
- 4. THE CONTRACTOR SHALL MAINTAIN PROPER SITE DRAINAGE TO ALL AREAS THROUGHOUT THE CONSTRUCTION PERIOD AND SHALL BE RESPONSIBLE FOR MAINTAINING EXCAVATIONS IN A SAFE AND STABLE CONDITION AT ALL TIMES
- 5. SERVICES SUCH AS GAS, WATER, SEWER, COMMUNICATIONS, ELECTRICITY AND STORMWATER DRAINAGE WILL BE ENCOUNTERED DURING DEMOLITION OF THE WORKS. SERVICES INFORMATION SHOWN ON THE DRAWINGS IS INDICATIVE ONLY AND MAY NOT BE COMPLETE.
- 6. BEFORE DEMOLITION COMMENCES THE LOCATION OF ALL SUCH SERVICES SHALL BE CONFIRMED ON SITE.
- 7. ANY UNDOCUMENTED SERVICES ARE TO BE CHECKED WITH THE RELEVANT AUTHORITY PRIOR TO THE COMMENCEMENT OF WORKS.
- 8. HANDLING AND REMOVAL OF ASBESTOS AND ANY OTHER HAZARDOUS MATERIALS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH THE SPECIFICATION AND NATIONAL H.S.E. CODES.
- 9. ALL WORKS SHALL BE CONTAINED WITHIN THE SITE FENCE.
- 10. ALL BUILDINGS MUST BE SUPPORTED AND KEPT STABLE DURING DEMOLITION.
- 11. ALL EXPOSED WORKS MUST BE PROTECTED AT CLOSE OF EACH WORKING PERIOD.
- 12. CONTRACTOR SHALL NOTE THAT NON-TRAFFICABLE SUBTERRANEAN STRUCTURES (SOAKWELLS ETC.) MAY EXIST ON SITE. PRIOR TO EARTHWORKS COMMENCING, CONTRACTOR SHALL LOCATE ANY SOAKWELLS, SEPTIC TANKS, DELETERIOUS MATERIALS AND OTHER SUBTERRANEAN STRUCTURES. THESE MATERIALS AND STRUCTURES SHALL BE REMOVED AND THE LOCATION BACKFILLED IN ACCORDANCE WITH PROCEDURES SET OUT IN SPECIFICATION (IF APPLICABLE). THE CONTRACT ADMINISTRATOR SHALL BE ADVISED OF ANY UNUSED PIPE WORK ENCOUNTERED.
- 13. IT IS EXPECTED THAT THE MAJORITY OF EXISTING PAVEMENT MATERIALS WILL BE ABLE TO BE REUSED ON SITE FOR SUBGRADE IMPROVEMENT OR NEW PAVEMENT SUBBASE MATERIAL, SUBJECT TO GEOTECHNICAL ASSESSMENT AND RECOMMENDATION. THE CONTRACTOR SHALL MAKE APPROPRIATE ALLOWANCE AND QUANTIFICATION OF EXISTING PAVEMENT MATERIAL THAT MAY BE ABLE TO BE REUSED. THERE MAY BE OPPORTUNITIES TO BUILD UP OVER EXISTING PAVEMENT WITH NEW PAVEMENT IN AREAS WHERE DESIGN FINISHED LEVELS ARE FAIRLY CLOSE TO THE EXISTING PAVEMENT LEVELS. THIS WILL BE SUBJECT TO EVALUATION OF THE EXISTING PAVEMENT CONDITION AND DEPTH ON SITE AND COORDINATION WIT THE GEOTECHNICAL ENGINEER TO DETERMINE AN APPROVED ALTERNATIVE CONSTRUCTION METHOD.

Contractor No: R30_MET_DWG_CI_001_01001 Rev: B.1

EARTHWORKS NOTES

- 1. EARTHWORKS DESIGN IS BASED ON PRELIMINARY GEOTECHNICAL INFORMATION PROVIDED AS PART OF THE ALLIANCE DEVELOPMENT PHASE, NAMELY THE GEOTECHNICAL FACTUAL AND INTERPRETIVE REPORT BRE-MNO-WSP-GE-RPT-0001 BY WSP CONSULTANTS, ALONG WITH ADDITIONAL ENVIRONMENTAL AND HYDRO-GEOLOGICAL REPORTS COMPLETED BY GOLDER ASSOCIATES. ADDITIONAL ADVICE HAS BEEN PROVIDED BY THE PROJECT GEOTECHNICAL CONSULTANT CMW ENGINEERS, AS INCLUDED IN ATTACHMENTS TO THE EARTHWORKS TAN.
- 2. EARTHWORKS DESIGN IS BASED ON GENERAL LAND SURVEYS FEATURE SURVEY USING COMPLETED FEBRUARY 2021 AND ALSO PUBLIC AVAILABLE LIDAR SURVEY DATA, ACCURACY MAY BE IN THE ORDER OF +/- 300MM
- 3. CONTOURS ARE TO FINISHED SURFACE LEVELS.
- 4. ALL ROOTS, BOULDERS AND ANY OTHER DELETERIOUS MATERIAL SHALL BE TOTALLY REMOVED TO A DEPTH OF 600MM BELOW THE LOWER OF THE NATURAL/CUT SURFACE.
- 5. MAXIMUM BATTERS TO BE 1 IN 3, OR FLATTER, UNLESS SHOWN OTHERWISE (U.S.O.). NOMINAL BATTERS SHALL BE 1 IN 6 UNLESS SHOWN OTHERWISE.
- 6. ALL FILL SHALL BE CLEAN AND BE FREE FROM DELETERIOUS AND/OR ORGANIC

MATERIAL

- 7. NO DEDICATED IRRIGATED LANDSCAPING IS PROPOSED FOR THE TEMPORARY BUS INTERCHANGE WORKS. EMBANKMENTS ARE PROPOSED TO BE TREATED WITH JUTE MATTING AND MULCH AS SHOWN ON DRAWINGS CONTRACTOR SHALL ALLOW FOR ANY TEMPORARY STABILISATION OR DUST CONTROL AS REQUIRED ON SITE. AND COORDINATE WITH LANDSCAPE REQUIREMENTS FOR MORE PERMANENT TREATMENTS.
- A SUBGRADE CBR VALUE OF 12% IS RECOMMENDED FOR PAVEMENT DESIGN.
- 9. THE SUBGRADE SHOULD BE PREPARED AS PER AS3798-2007 AND PTA 8880-450-074.
- 10. ALL DELETERIOUS AND UNSUITABLE MATERIAL, INCLUDING VEGETATION AND TOPSOIL SHOULD BE REMOVED FROM THE DEVELOPMENT AREA AND REPLACED WITH ENGINEER-CONTROLLED SAND FILL MATERIALS ABOVE ANY REACTIVE CLAY MATERIALS.
- 11. THE TOPSOIL OR INERT MATERIALS REMOVED CAN EITHER BE REMOVED FROM SITE OR STOCKPILED FOR LATER RE-USE IN LANDSCAPING.
- 12. THE SUBGRADE MATERIALS SHOULD BE COMPACTED FOR A MINIMUM DEPTH OF 300MM BELOW THE TOP OF THE SUBGRADE AND COMPACTED TO 96% OF MMDD.
- WHERE GROUND IMPROVEMENT IS REQUIRED, EXCAVATION AND REPLACEMENT OF THE CLAYEY SOIL WITH ENGINEER FILL OR A MINIMUM 600MM OF FREE DRAINING SAND COVER OVER THE CLAYEY SOIL IS TO BE COMPLETED IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS.
- 14. THE SUBGRADE SURFACE SHOULD BE PROOF ROLLED WITH AT LEAST 8 PASSES OF A SMOOTH DRUM VIBRATORY ROLLER OPERATING IN LOW FREQUENCY/HIGH AMPLITUDE MODE, ALLOWING AT LEAST 20% OVERLAP BETWEEN PASSES
- 15. THE EXPOSED SUBGRADE MATERIALS SHOULD NOT BE LEFT EXPOSED FOR A
- 16. SHOULD THE SUBGRADE MATERIALS BE DISTURBED OR INUNDATED, REINSPECTION FOLLOWED BY ADDITIONAL REWORKS OF THE MATERIAL MAY BE REQUIRED.
- 17. PROOF OF COMPACTION SHOULD BE CHECKED BY PROOF ROLLING, NUCLEAR DENSITY METER/DYNAMIC CONE PENETROMETER TESTS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF STRUCTURAL FILL.
- 18. THE GROUND LEVEL SHOULD BE BUILT UP WITH CONTROLLED STRUCTURAL FILL TO DESIGN LEVELS.
- 19. THE GRANULAR FILL SHALL COMPLY WITH PTA 8880-450-074 (CONSISTING OF FREE DRAINING SAND WITH NOT MORE THAN 5% PASSING A 75UM SIEVE, AND BE FREE OF ORGANIC MATTER AND OTHER DELETERIOUS MATERIALS).
- 20. THE FILL SAND SHOULD BE PLACED IN LAYERS NOT EXCEEDING 300MM LOOSE THICKNESS AND COMPACTED TO 96% OF MMDD IN ACCORDANCE WITH AS1289 5.2.1/5.4.1 / PTA 8880-450-074 AND OTHER CONTRACT SPECIFIC REQUIREMENTS
- 21. TESTS SUCH AS PERTH SAND PENETROMETER AND NUCLEAR DENSITY METER TESTING AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER SHOULD BE UNDERTAKEN TO CONFIRM COMPACTION CONTROL TESTING AS SPECIFIED/QUANTIFIED IN AS 3798.

DRAINAGE NOTES

- WHERE CONNECTING INTO EXISTING DRAINAGE, THE CONTRACTOR IS TO PICK UP UPSTREAM AND DOWNSTREAM INVERT LEVELS OF EXISTING DRAINAGE LINE IMMEDIATELY DOWNSTREAM OF PROPOSED CONNECTION. THE CONTRACTOR TO SUPPLY THIS SURVEY INFORMATION TO THE SUPERINTENDENT PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE CONSTRUCTION. THE CONTRACTOR TO THEN AWAIT NOTIFICATION FROM THE SUPERINTENDENT THAT DRAINAGE CONSTRUCTION MAY COMMENCE.
- 2. STORMWATER PIPES ARE TO BE REINFORCED CONCRETE RUBBER JOINT CLASS 2
- 3. ALL MANHOLES AND GULLY GRATES TO BE FLUSH WITH SURROUNDING PAVEMENT LEVELS U.S.O.
- 4. JUNCTION AND ENTRY PITS ARE TO BE LOCATED IN POSITIONS SHOWN. IRRESPECTIVE OF THE INDICATED PIPE LENGTHS.
- 5. DRAINAGE FOR THE TEMPORARY BUS INTERCHANGE IS BASED ON MAINTAINING EXISTING DRAINAGE THROUGH THE PAVEMENT AREA AND CONNECTING PROPOSED PAVEMENT INTO EXISTING DRAINAGE. AS POST DEVELOPMENT CONDITIONS DO NOT DIFFER TO EXISTING, AMENDMENT TO DRAINAGE, INCLUDING WSUD MEASURES, OR OTHER REQUIREMENTS IN ACCORDANCE WITH PTA TYPICAL SPECIFICATIONS IS NOT PROPOSED FOR THE TEMPORARY CASE.
- 6. EXISTING DRAINAGE PITS WILL NEED TO BE ADJUSTED TO SUIT THE PROPOSED DESIGN AND LEVELS. THIS MAY BE ACHIEVED THROUGH LID REPLACEMENT AND RESETTING, OR PLACEMENT OF STEEL PLATES, BURIED CONCRETE LIDS OR SIMILARLY TO ALLOW CONSTRUCTION OF PROPOSED PAVEMENT ABOVE EXISTING PITS AND ASSOCIATED BUS INTERCHANGE TRAFFIC.

PTA DRAINAGE REQUIREMENTS

INFRASTRUCTURE WITH 300 MM FREEBOARD.

- 1. REFER TO PTA SPECIFICATION "8880-450-090 DESIGN OF DRAINAGE FOR PTA INFRASTRUCTURE" FOR PRECINCT DRAINAGE REQUIREMENTS.
- a. PIPED SYSTEM ARE DESIGNED TO HAVE 150mm OF FREEBOARD FROM HGL TO FSL AND HAVE A DESIGN EVENT EQUAL TO THE AEP 20%
- (4.48 YEARS) FOR SERVICEABILITY b. DRAINAGE BASINS AND SUMPS HAVE A DESIGN EVENT EQUAL TO THE AEP
- 10% (AND DRY AFTER 96 HOURS). c. MAJOR SYSTEM CHECK: AEP 1% TWL TO PROPERTY AND RAILWAY
- 2. REFER TO HYDRAULIC SERVICES INFORMATION (TAN 072) FOR ALL HYDRAULIC STORMWATER DRAINAGE ASSOCIATED WITH BUS INTERCHANGE AND CAR PARKING CANOPY DRAINAGE. DETAILED COORDINATION IS STILL REQUIRED FOR THESE ELEMENTS. CONNECTION FROM THESE AREAS TO THE CIVIL DRAINAGE SYSTEM FOR THE STATION PRECINCT IS EXPECTED. THE CIVIL PRECINCT DRAINAGE SYSTEM HAS BEEN DESIGNED TO ALLOW FOR CONNECTION OF THESE AREAS, WITH PIT AND PIPE INFRASTRUCTURE PLACED INDICATIVELY IN THIS AREA FOR CONNECTION BY THE HYDRAULIC ENGINEER. REFER TO TEMPORARY BUILDING DESIGN FOR ALL RAINWATER COLLECTION AND CONNECTIONS.
- 3. ANY RAINWATER TANK OVERFLOW TO DISCHARGE TO CIVIL STORMWATER DRAINAGE SYSTEM.
- 4. STORMWATER DOWNPIPES NOT CONNECTED TO RAINWATER TANK SHALL BE DISCHARGED TO THE CIVIL STORMWATER SYSTEM.
- 5. THE BUS FRONT DOOR SHALL BE MINIMUM 10m AWAY FROM THE ROAD LOW POINT 6. IN ACCORDANCE WITH PTA REQUIREMENTS, DRAINAGE PITS TO HAVE A MAXIMUM
- DEPTH OF 1.8m.

ROADWORKS NOTES

- 1. THE CONTRACTOR SHALL INSTALL ALL DUCTS FOR ROAD CROSSINGS 1.0m BEHIND BACK OF KERB/EDGE OF PATH.
- 2. ALL KERBING TO BE SEMI-MOUNTABLE TYPE U.S.O.
- ALL KERBING ON A RADIUS OF 40m OR LESS MUST BE KEYED (TYP.).
- 3. ALL KERBING ADJACENT TO BUS STANDS SHALL BE 170mm HIGH BARRIER KERB IN ACCORDANCE WITH PTA REQUIREMENTS AND SPECIFICATIONS (TYP.) 4. TRANSITIONS BETWEEN DIFFERENT KERB TYPES SHALL BE MADE OVER A LENGTH
- KERB TYPE CHANGES OCCURRING AT KERB RAMPS AND DRAINAGE STRUCTURES
- SHALL NOT REQUIRE A TRANSITION AND THEREFORE HAVE NOT BEEN SHOWN FOR CLARITY
- 5. ALL SETOUT POINTS AND RADII ARE TO FACE OF KERB.
- ALL CONSTRUCTION SHALL MAKE SMOOTH CONNECTION TO EXISTING WORK (TYP.). 7. ALL PAVEMENT TO BE CONSTRUCTED USING BLACK ASPHALT U.S.O.

8. ROAD VERGES SHALL BE SURFACED WITH MINIMUM 75mm OF TOPSOIL - FREE OF

- DELETERIOUS MATERIAL. HYDROMULCHING MAY BE REQUIRED AS PER DUST MANAGEMENT PLAN OR REQUIRED AND INSTRUCTED BY CITY OF ARMADALE.
- THE CONTRACTOR SHALL CONTACT THE CONTRACT ADMINISTRATOR WHEN ALL CONCRETE FORMWORK IS IN POSITION FOR INSPECTION AND APPROVAL, PRIOR TO THE POURING OF ANY CONCRETE
- 10. PEDESTRIAN CROSSINGS / KERB RAMPS TO INCLUDE TACTILE PAVERS AND CONSTRUCTED IN ACCORDANCE WITH PTA REQUIREMENTS, CITY OF ARMADALE
- SPECIFICATIONS AND DETAILS AND/OR AS1428.
- 11. ALL WORKS WITHIN THE COMMERCE AVE ROAD RESERVE SHALL BE CONDUCTED TO THE APPROVAL OF THE CITY OF ARMADALE.
- 12. REFERENCE SHOULD BE MADE TO THE PAVEMENT DESIGN AS COMPLETED BY WML CONSULTANTS FOR ASPHALT PAVEMENT COMPOSITION AS REQUIRED. THIS SHALL BE FURTHER DEVELOPED IN SUBSEQUENT DESIGN PHASES.

PAVEMENT MARKING AND SIGNAGE NOTES

- 1. ALL TRAFFIC MANAGEMENT PAVEMENT MARKINGS AND SIGNAGE SHALL BE IN
- ACCORDANCE WITH AS1742 AND AS1743. 2. ALL WORKS SHALL TO BE CARRIED OUT IN ACCORDANCE WITH PTA SPECIFICATIONS AND DETAILS AND MAIN ROADS W.A. (MRWA) STANDARD DRAWINGS AND
- SPECIFICATIONS (800 SERIES). 2. ALL TRAFFIC MANAGEMENT SIGNAGE AND PAVEMENT MARKINGS TYPES AND DIMENSIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE BELOW
- STANDARDS IN ORDER OF PRECEDENCE. 2.1. PTA / MRWA SPECIFICATIONS AND DETAILS
- 2.2. AS1742 SERIES, AS1743 AND AS1744
- 2.3. AS2890.1 PARKING FACILITIES PART 1: OFF-STREET CAR PARKING 3. ALL PAVEMENT MARKING WORK SHALL BE WHITE U.S.O.
- 4. CAR BAYS SHALL BE MARKED WITH 80MM WIDE REFLECTIVE NON-SLIP WHITE PAVEMENT MARKING TO AS2890.1.
- 5. PAVEMENT ARROWS SHALL BE MARKED WITH REFLECTIVE NON-SLIP WHITE PAVEMENT MARKING
- 6. DIAGONAL MARKINGS SHALL BE MARKED WITH REFLECTIVE NON-SLIP WHITE PAVEMENT MARKING U.S.O.
- 7. EXISTING PAVEMENT MARKINGS SHALL BE REMOVED IN ACCORDANCE WITH MRWA STANDARDS AND SPECIFICATIONS (800 SERIES), SUCH THAT THE ROAD MARKING IS REMOVED WITHOUT DAMAGE TO THE UNDERLYING PAVEMENT.
- 8. ALL RRPM'S IN AREAS OF CHANGED LINEMARKING TO BE REMOVED BEFORE NEW LINES APPLIED AND REPLACED AFTERWARD.

MAIN ROADS W.A. SHALL INSPECT AND APPROVE THE PAVEMENT MARKING

- 9. CONTRACTOR TO PROVIDE SPOTTING TO MRWA GUIDELINES AT THE PROPOSED POSITIONS OF PAVEMENT MARKINGS.
- SPOTTING PRIOR TO PAVEMENT MARKING'S BEING APPLIED (TYP.). 10. PAVEMENT MARKINGS ARE INDICATIVE ONLY. ALL PAVEMENT MARKING TYPES AND DIMENSIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MAIN ROADS W.A.
- (MRWA) STANDARD DRAWINGS AND SPECIFICATIONS (600 SERIES). 11. ALL LINE WORK SHALL BE WHITE U.S.O.

(250MM BAND WITH 500M GAP).

- 12. POST SIGN LOCATION AND INSTALLATION TO CONFORM TO MRWA STANDARD DRAWINGS AND SPECIFICATIONS (600 SERIES). CONTRACTOR SHALL ENSURE SLEEVES INSTALLED PRIOR TO SIGN INSTALLATION ARE Ø150 PVC AS DETAILED ON MRWA DRG: 9548-106.
- 13. ALL PTA SPECIFIC SIGNAGE IS TO BE SUPPLIED AND INSTALLED BY THE PTA. FOUNDATIONS TO INSTALLED BY THE CONTRACTOR TO THE DETAILS REQUIRED BY PTA AND AS SHOWN ON DRAWINGS.



CAUTION: HIGH PRESSURE GAS IN VICINITY. CONTRACTOR TO LOCATE AND DETERMINE DEPTH PRIOR TO COMMENCEMENT OF WORKS. ALL WORK UNDERTAKEN WITHIN PROXIMITY OF THE PIPELINE SHALL BE IN ACCORDANCE WITH THE RELEVANT AUTHORITY REQUIREMENTS.

CAUTION: FIBRE OPTIC CABLE IN VICINITY. CONTRACTOR TO LOCATE AND DETERMINE DEPTH PRIOR TO COMMENCEMENT OF WORKS. ALL WORK UNDERTAKEN WITHIN PROXIMITY OF THE CABLE SHALL BE IN ACCORDANCE WITH THE RELEVANT AUTHORITY REQUIREMENTS.

ISSUED FOR DA

Government of Western Australia Public Transport Authority BYFORD RAIL EXTENSION

ENABLING WORKS

CIVIL WORKS - TEMPORARY BUS INTERCHANGE

SITE PLAN AND GENERAL NOTES

11-C-01-0036 | Rev: B.1 PTA Drawing No:

MetCONX

REFERENCES XR01GN_CADASTRAL_BDY_PCG2020 XR01GN_SURVEY_CI_001_PCG2020 R30-MET-XRF-TR-100-00510 R30-MET-XRF-CI-001-00001 _LOGO_METCONNX

DRAWN N.T.S. MBS CHECKED ΥK DATUM APPROVED HORIZONTAL: PCG2020 ΑE **VERTICAL:** DATE 6/10/22

DESIGNED

SCALE

AMENDMENT

AT ORIGINAL PLOT SIZE

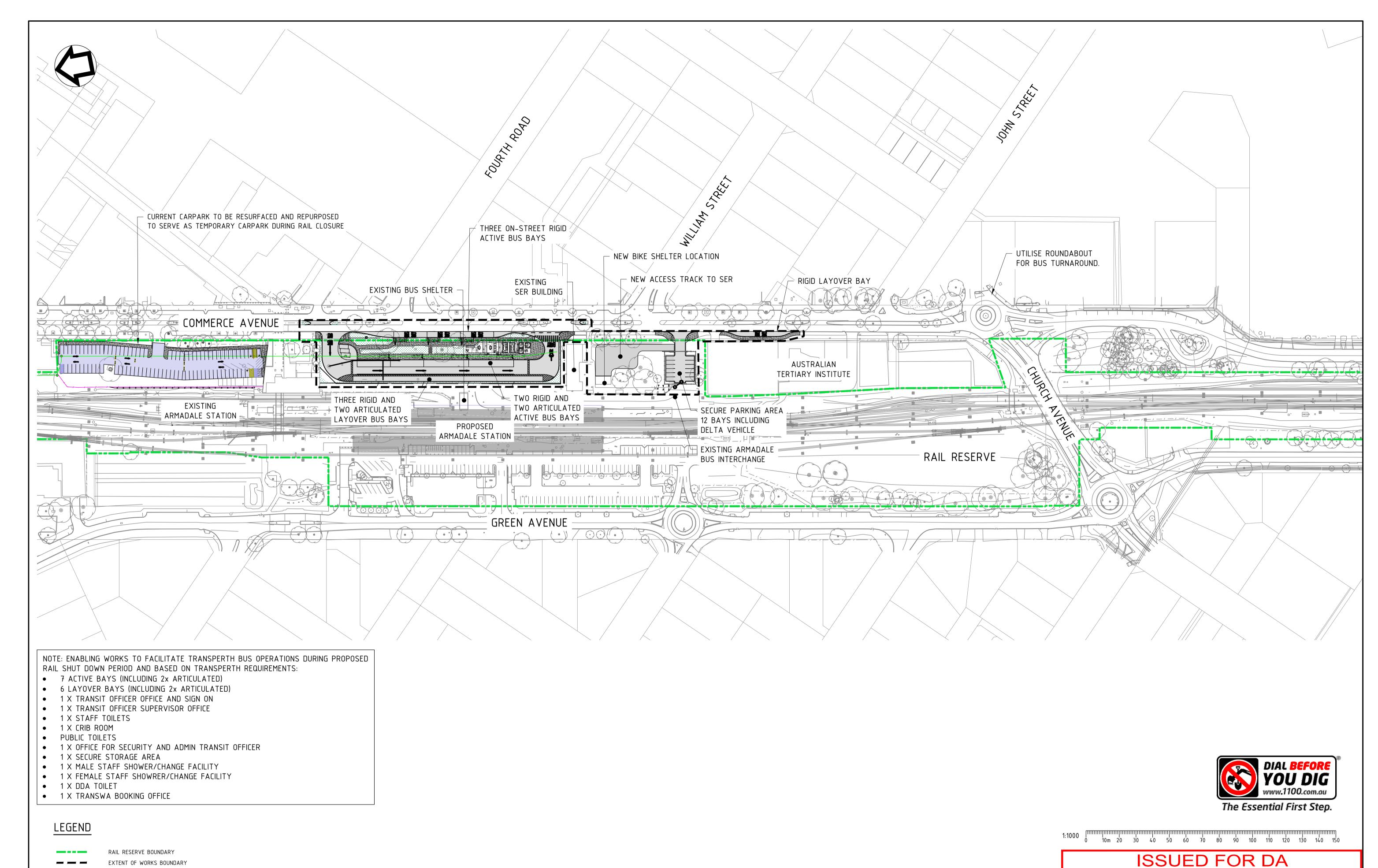
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B.1 | 23/11/22 | ISSUED FOR DA

A 5/07/22 ISSUED FOR RD

REV | DATE

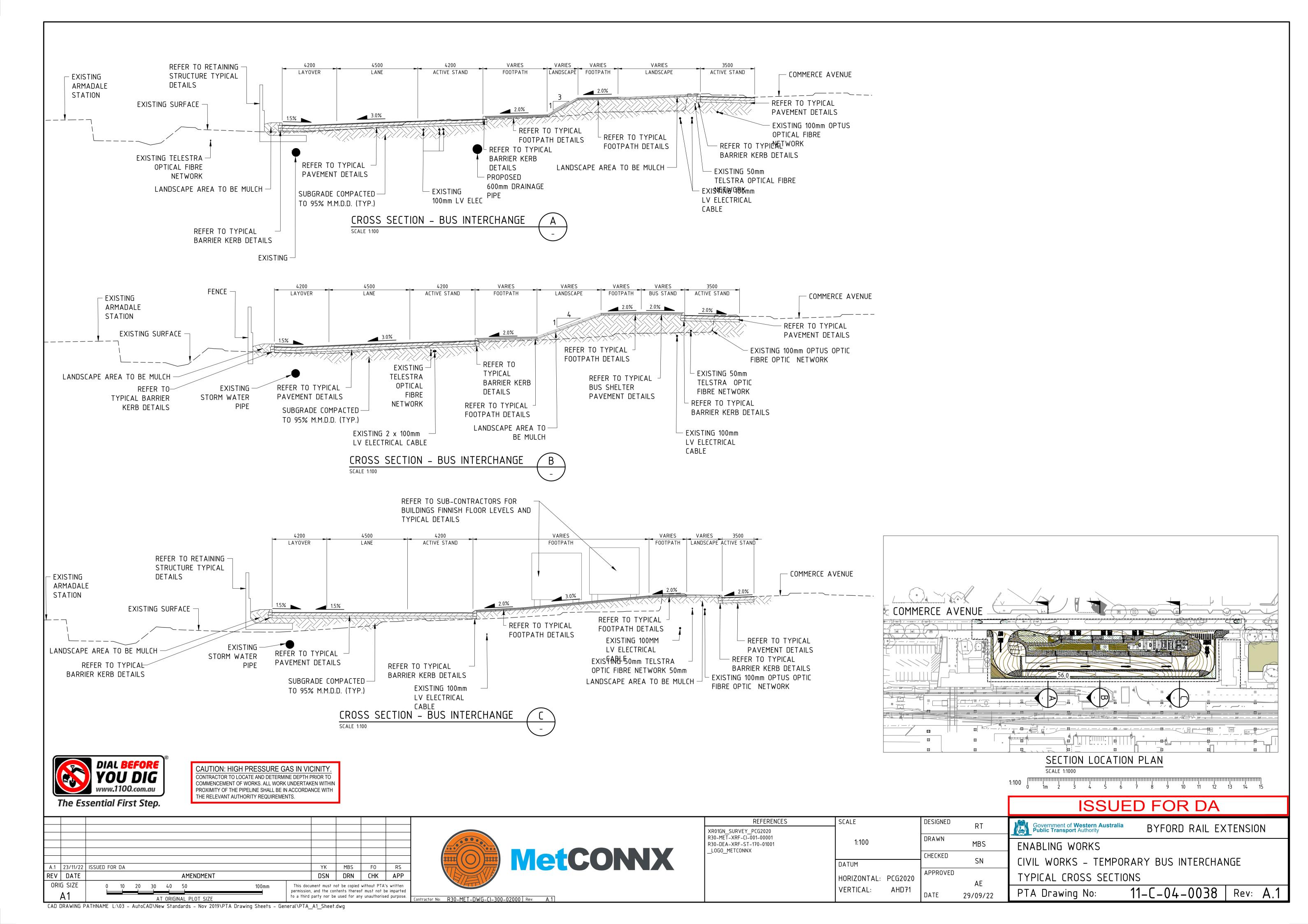
ORIG SIZE



EXTENT OF WORKS BOUNDARY REFERENCES SCALE DESIGNED Government of Western Australia
Public Transport Authority RT BYFORD RAIL EXTENSION XR01GN_SURVEY_CI_001_PCG2020 R30-DEA-CAD-ST-170-01001 DRAWN 1:1000 XR01GN_RAIL_RESERVE_BDY_PCG2020 R30-MET-XRF-TR-100-00510 MBS ENABLING WORKS MetCONX CHECKED R30-MET-XRF-TR-100-00310 B.2 5/12/22 ISSUED FOR DA CIVIL WORKS - TEMPORARY BUS INTERCHANGE YK MBS F0 ΥK XR01GN_CADASTRAL_BDY_PCG2020 DATUM A 5/07/22 ISSUED FOR RD FO TM YK NM R30-MET-XRF-CI-001-00001 REV DATE DSN DRN CHK OVERALL LAYOUT PLAN **AMENDMENT** _LOGO_METCONNX HORIZONTAL: PCG2020 Temp Car North_07.11.22_OPTION 1_RevA ΑE ORIG SIZE 0 10 20 30 40 50 This document must not be copied without PTA's written 11-C-04-0025 | Rev: B.2 R30-MET-XRF-CI-080-00001 VERTICAL: AHD71 permission, and the contents thereof must not be imparted PTA Drawing No: 6/10/22 R30-MET-XRF-CI-200-00001_MBS to a third party nor be used for any unauthorised purpose.

AT ORIGINAL PLOT SIZE

CAD DRAWING PATHNAME \\perfs01\Filing\2022\Projects\22-001 Byford Rail Extension\TPT\02 DESIGN\2.3 Civil\2.3.4 CADD\7 - Enabling Works\Armadale Station\PDF\221123 Issued for DA\DWG\R30-MET-DWG-CI-001-01002.dwg



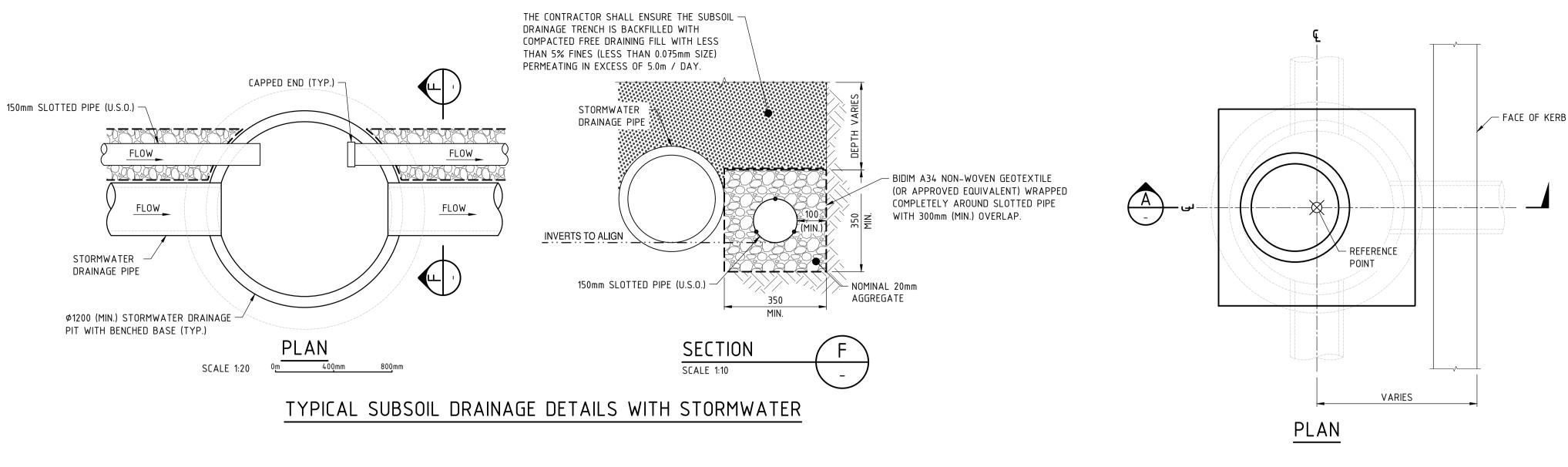


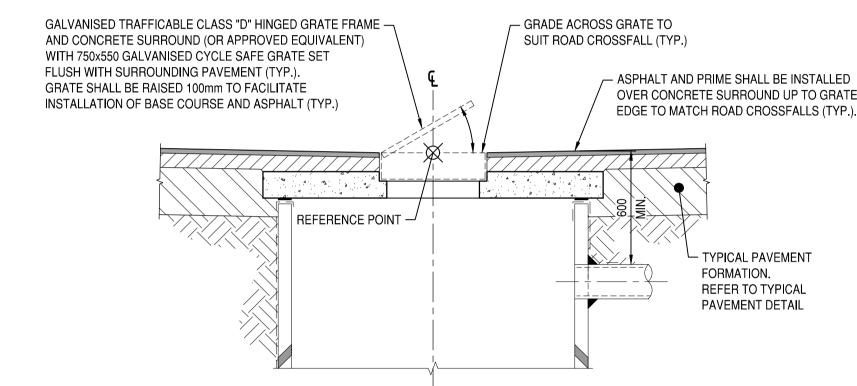
	TABLE A						
DRAINAGE PIT LINER SIZE							
NOM. LINER	PIPE SIZE						
SIZE	MAX.	LINER TYPE					
(mm)	(mm)						
Ø 1050	Ø 450	CONCRETE					
Ø 1200	Ø 600	CONCRETE					
Ø 1500	Ø 750	CONCRETE					
Ø 1800	Ø 900	CONCRETE					
Ø 2250	Ø 1050	CONCRETE					
N/A	N/A	CUSTOM					
FOR PIPES Ø 120	0 AND LARGER INS	TALL A CUSTOM					
	CHAMBER TO SUIT.						

STORMWATER PIT NOTES

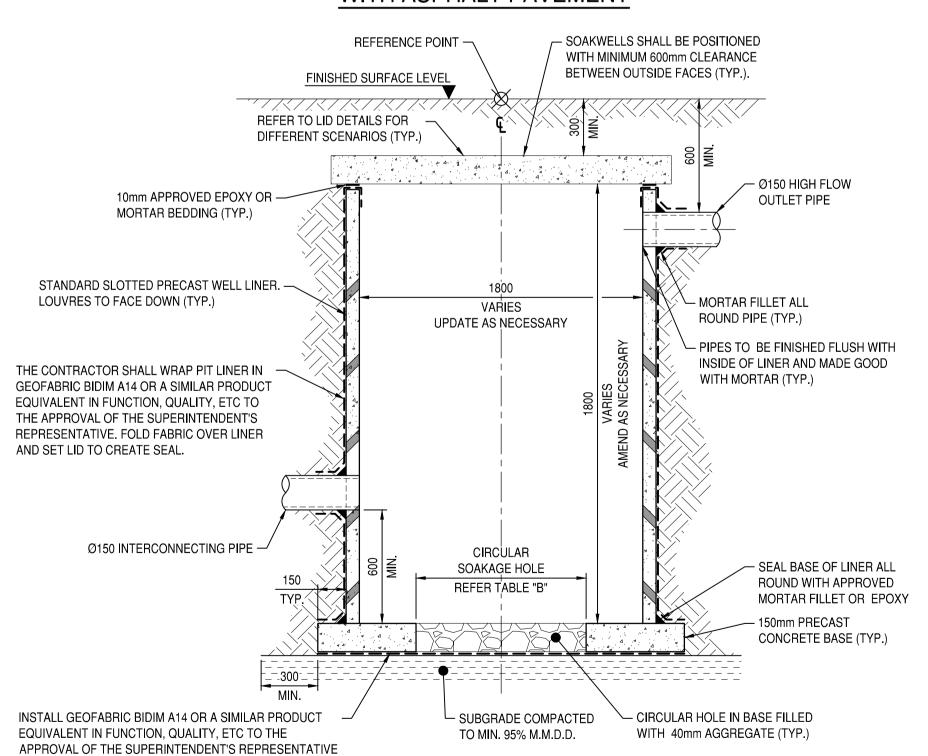
- 1. ALL INSITU CONCRETE SHALL BE CLASS N32 IN ACCORDANCE WITH
- 2. ALL INSITU CONCRETE CORNERS SHALL HAVE A 20mm CHAMFER UNLESS OTHERWISE NOTED.
- 3. CEMENT MORTAR SHALL CONSIST OF ONE PART CEMENT AND THREE
- PARTS SAND. 4. SL81 REINFORCEMENT SHALL CONFORM WITH HARD DRAWN FABRIC TO
- AS4671. 5. MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE 50mm.
- 6. THE LINER SHALL BE REINFORCED CONCRETE MANUFACTURED TO
- AS4058. 7. THE MAXIMUM INLET/OUTLET PIPE OUTSIDE DIAMETER SHALL BE LESS
- THAN 60% OF THE LINER INTERNAL DIAMETER.
- 8. MINIMUM OF 40% OF LINER SHALL REMAIN IN ANY HORIZONTAL PLANE. 9. MINIMUM INTERNAL LINER SPACE OF 200mm BETWEEN PUNCHED/CUT
- 10. HOLES TO BE CUT/PUNCHED ON ACCORDANCE WITH MANUFACTURER'S
- SPECIFICATION. 11. THE LINER SHALL HAVE EQUIVALENT PROPERTIES AND REINFORCEMENT
- OF CLASS 2 R.C.P. EXCEPT THAT THE REINFORCEMENT SHALL BE CIRCULAR.
- 12. FOR STRUCTURES DEEPER THAN 1000mm, STEP IRONS OR PREFABRICATED GALVANISED STEEL LADDER SHALL BE FITTED. THE LADDER SHALL BE FIXED WITH STAINLESS STEEL MASONARY ANCHORS
- IN ACCORDANCE WITH AS1657. 13. ORIENTATE STEP IRONS OR LADDER TO ENABLE EASY ACCESS AND TO
- FACE ONCOMING TRAFFIC.
- 14. COVERS SHALL BE CLASS 'D' TO AS3996. 15. SIDE ENTRY PIT APRON SHALL BE A COMBINATION OF PROPRIETARY MATCHING FRAME (UNIVERSAL SIDE ENTRY FRAME OR APPROVED
- EQUIVALENT) AND AN APPROVED APRON DEFLECTOR SLAB. 16. SIDE ENTRY PIT COVER AND APRON SHALL SATISFY THE FOLLOWING
- CRITERIA: VERTICAL OPENING:

120mm MIN. 150mm MAX. 880mm MIN.

HORIZONTAL OPENING: 3% WITH VERTICAL DEFLECTORS APRON GRADE:



TYPICAL INVERTED GULLY GRATE LID DETAIL (GSW) WITH ASPHALT PAVEMENT



TYPICAL INTERCONNECTED SOAKWELL DETAIL SCALE 1:20 0<u>m 400</u>mm

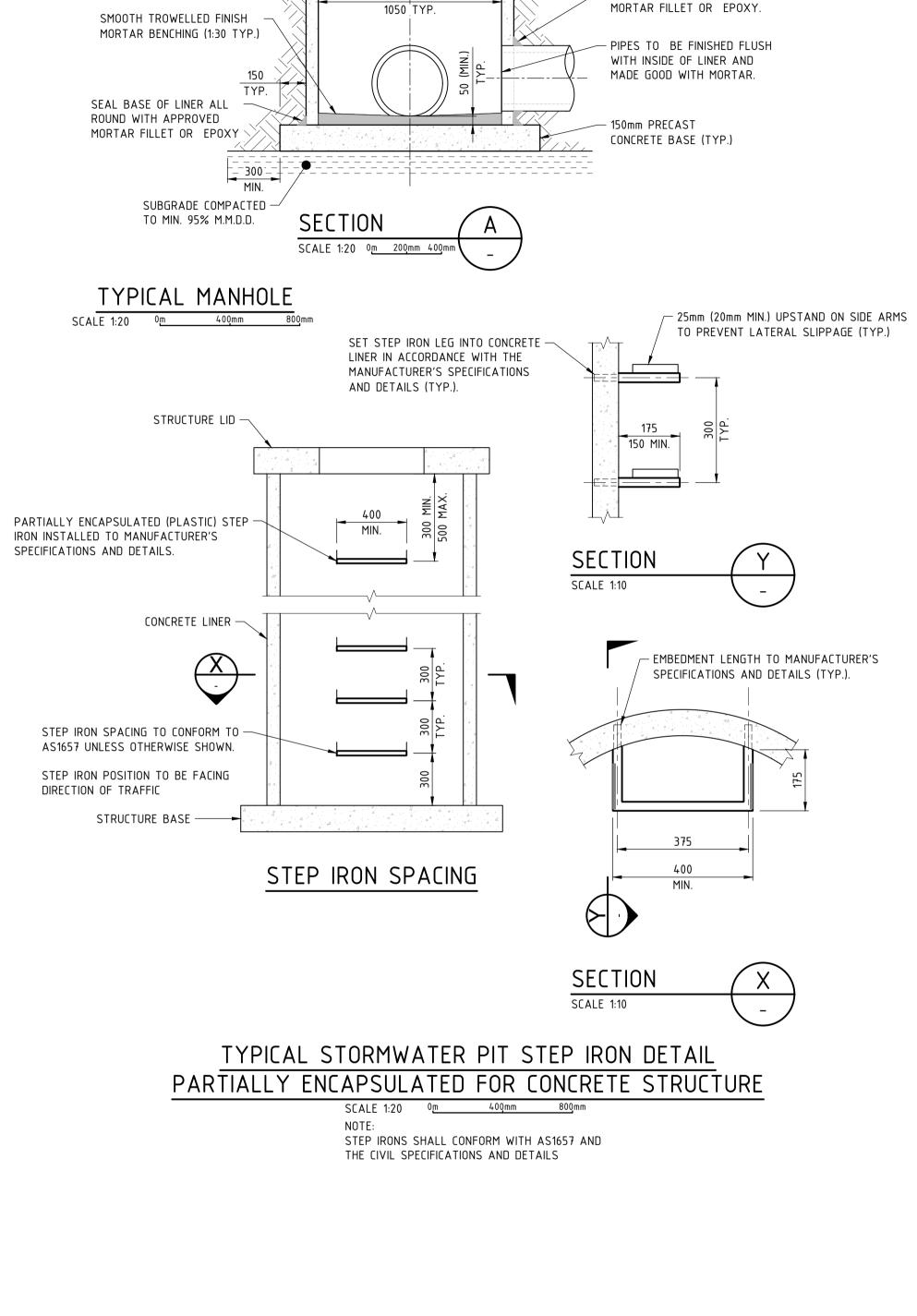
B.1 23/11/22 ISSUED FOR DA MBS FO RS A 5/07/22 ISSUED FOR RD TM YK NM DSN DRN CHK APP REV DATE **AMENDMENT** ORIG SIZE This document must not be copied without PTA's written 0 10 20 30 40 50 permission, and the contents thereof must not be imparted to a third party nor be used for any unauthorised purpose.



UNDER PIT BASE FOR FULL WIDTH OF BASE (TYP.)

Contractor No: R30-MET-DWG-CI-001-02500 Rev: B.1

AKVVELL DETAIL 800mm			
REFERENCES	SCALE	DESIGNED	RT
GO_METCONNX			
	AS SHOWN	DRAWN	MBS
		CHECKED	VIZ
	DATUM		YK
	HODIZONITAL DEC2020	APPROVED	
	HORIZONTAL: PCG2020		ΑE
	VERTICAL: AHD71	DATE	6/10/22



REFERENCE POINT

STEP IRONS

NOT SHOWN

 TYPICAL PAVEMENT FORMATION. REFER TO TYPICAL PAVEMENT DETAIL

- STANDARD PRECAST WELL LINER.

- SEAL PIPE ALL ROUND WITH APPROVED

REFER TABLE "A"

TRAFFICABLE 1350x1350 CLASS "D" OFFSET

MANHOLE COVER OR APPROVED EQUIVALENT

10mm (TYP.) APPROVED

EPOXY OR MORTAR BEDDING

ISSUED FOR DA

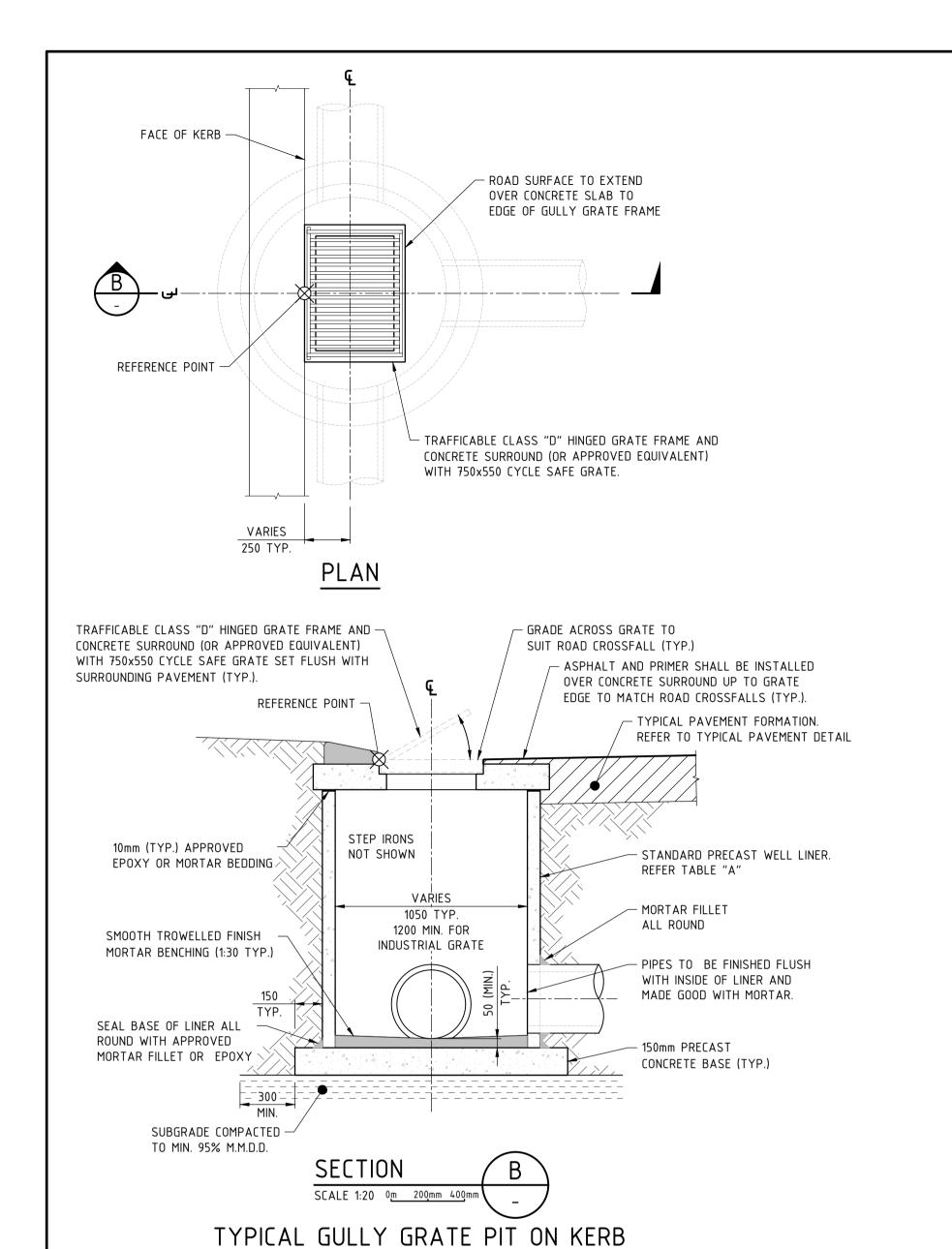
Government of Western Australia Public Transport Authority BYFORD RAIL EXTENSION

ENABLING WORKS

CIVIL WORKS - TEMPORARY BUS INTERCHANGE TYPICAL DETAILS - SHEET 1

11-C-04-0026 | Rev: B.1 PTA Drawing No:

AT ORIGINAL PLOT SIZE CAD DRAWING PATHNAME L:\03 - AutoCAD\New Standards - Nov 2019\PTA Drawing Sheets - General\PTA_A1_Sheet.dwg



STORMWATER PIT NOTES

- 1. ALL INSITU CONCRETE SHALL BE CLASS N32 IN ACCORDANCE WITH
- 2. ALL INSITU CONCRETE CORNERS SHALL HAVE A 20mm CHAMFER UNLESS OTHERWISE NOTED.
- 3. CEMENT MORTAR SHALL CONSIST OF ONE PART CEMENT AND THREE PARTS SAND.
- 4. SL81 REINFORCEMENT SHALL CONFORM WITH HARD DRAWN FABRIC TO
- AS4671. 5. MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE 50mm.
- 6. THE LINER SHALL BE REINFORCED CONCRETE MANUFACTURED TO AS4058. 7. THE MAXIMUM INLET/OUTLET PIPE OUTSIDE DIAMETER SHALL BE LESS
- THAN 60% OF THE LINER INTERNAL DIAMETER. 8. MINIMUM OF 40% OF LINER SHALL REMAIN IN ANY HORIZONTAL PLANE.
- 9. MINIMUM INTERNAL LINER SPACE OF 200mm BETWEEN PUNCHED/CUT
- 10. HOLES TO BE CUT/PUNCHED ON ACCORDANCE WITH MANUFACTURER'S
- SPECIFICATION. 11. THE LINER SHALL HAVE EQUIVALENT PROPERTIES AND REINFORCEMENT OF CLASS 2 R.C.P. EXCEPT THAT THE REINFORCEMENT SHALL BE
- CIRCULAR. 12. FOR STRUCTURES DEEPER THAN 1000mm, STEP IRONS OR PREFABRICATED GALVANISED STEEL LADDER SHALL BE FITTED. THE
- LADDER SHALL BE FIXED WITH STAINLESS STEEL MASONARY ANCHORS IN ACCORDANCE WITH AS1657.
- 13. ORIENTATE STEP IRONS OR LADDER TO ENABLE EASY ACCESS AND TO FACE ONCOMING TRAFFIC.
- 14. COVERS SHALL BE CLASS 'D' TO AS3996. 15. SIDE ENTRY PIT APRON SHALL BE A COMBINATION OF PROPRIETARY MATCHING FRAME (UNIVERSAL SIDE ENTRY FRAME OR APPROVED
- EQUIVALENT) AND AN APPROVED APRON DEFLECTOR SLAB. 16. SIDE ENTRY PIT COVER AND APRON SHALL SATISFY THE FOLLOWING CRITERIA:

0 10 20 30 40 50

VERTICAL OPENING: HORIZONTAL OPENING: APRON GRADE:

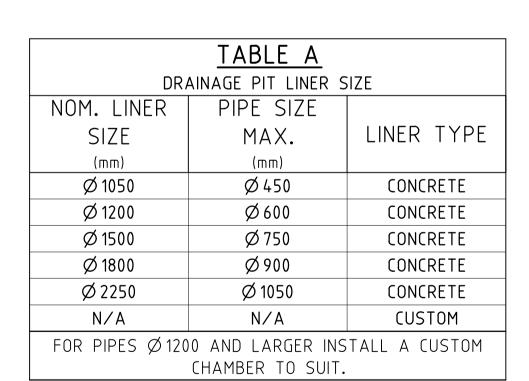
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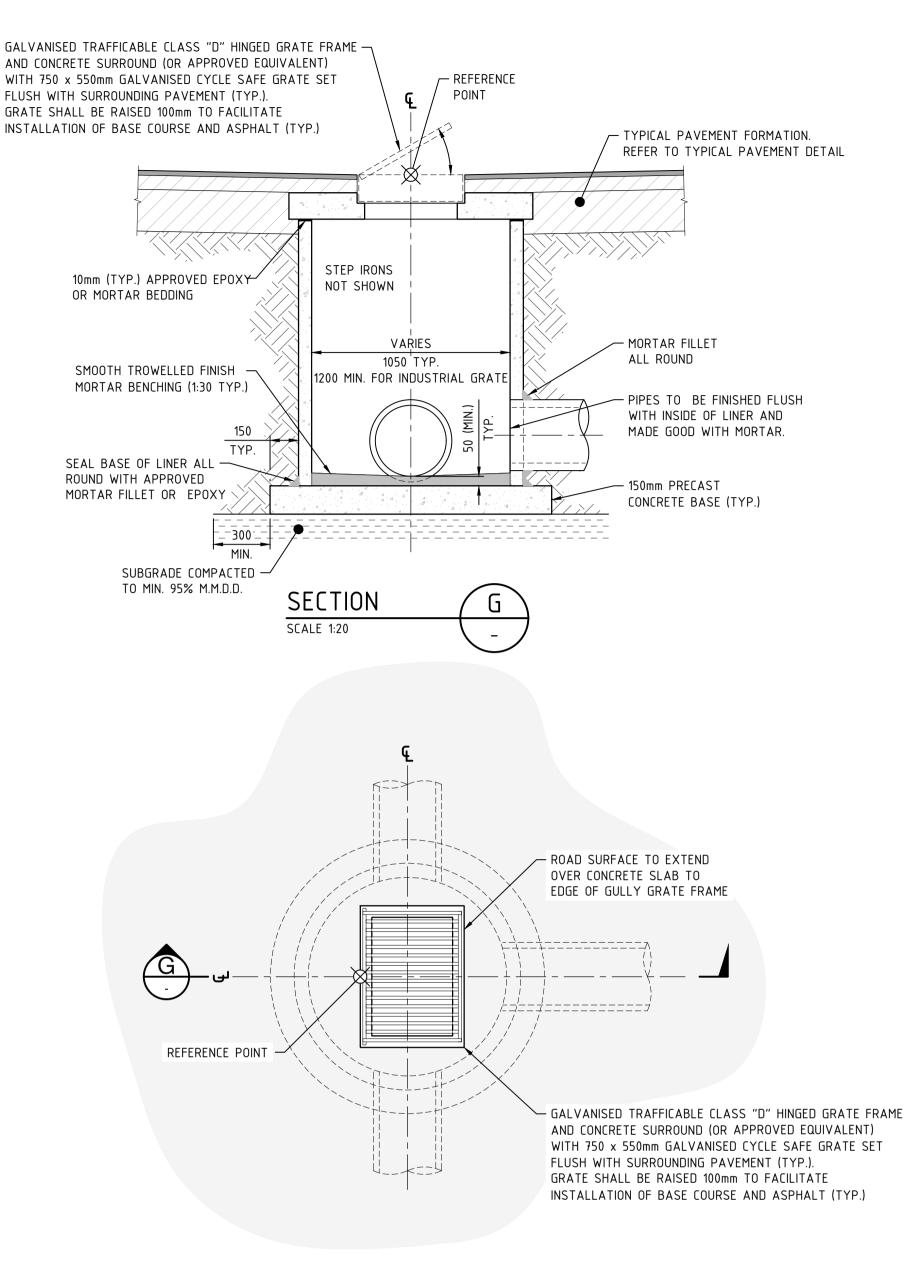
A 5/07/22 ISSUED FOR RD

REV DATE

ORIG SIZE

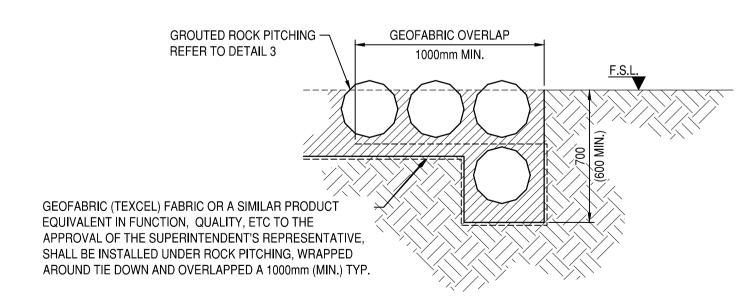
120mm MIN. 150mm MAX. 880mm MIN. 3% WITH VERTICAL DEFLECTORS



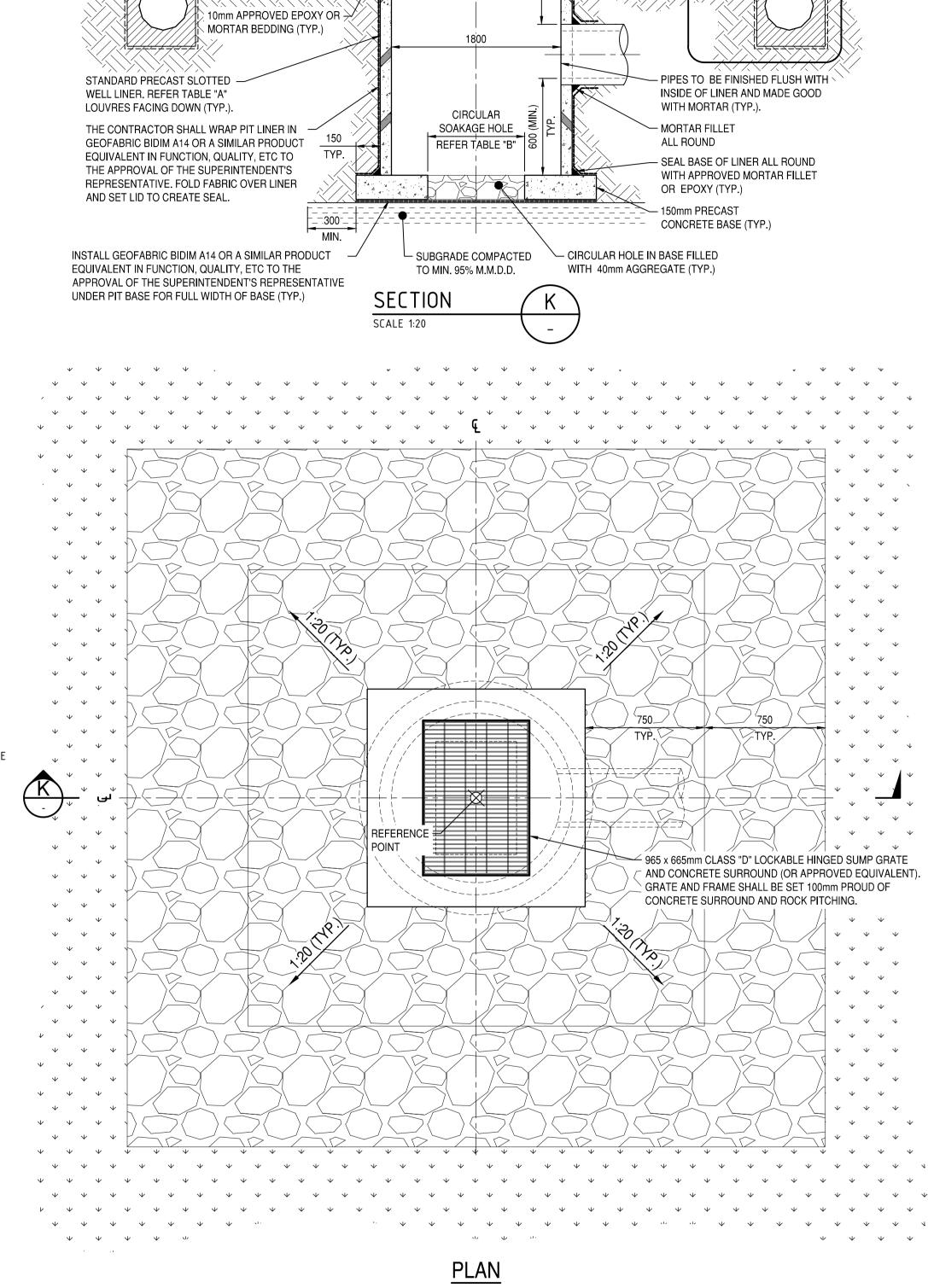


PLAN

TYPICAL STORMWATER INVERTED CROWN GULLY PIT (VGB) - BENCHED SCALE 1:20 0m 400mm 800mm



DETAIL SCALE 1:20



/-- REFERENCE

1:20 (TYP)

POINT

SHOWN

GALVANISED 965 x 665mm CLASS "D" LOCKABLE HINGED SUMP GRATE AND CONCRETE SURROUND (OR APPROVED

EQUIVALENT). GRATE AND FRAME SHALL BE SET 100mm PROUD OF CONCRETE SURROUND AND ROCK PITCHING.

MORTARED ROCK PITCHING WITH -

300mm LIMESTONE SPALLS (TYP.).

REFER TO DETAIL 3

TYPICAL STORMWATER BUBBLE-UP SUMP GRATE PIT (BUP)

SCALE 1:20 0m 400mm 800mm

ISSUED FOR DA REFERENCES SCALE **DESIGNED** Government of Western Australia Public Transport Authority RT BYFORD RAIL EXTENSION _LOGO_METCONNX DRAWN AS SHOWN MBS **ENABLING WORKS** CHECKED CIVIL WORKS - TEMPORARY BUS INTERCHANGE ΥK DATUM APPROVED TYPICAL DETAILS - SHEET 2 HORIZONTAL: PCG2020 ΑE **VERTICAL**: AHD71 11-C-04-0027 | Rev: B.1 PTA Drawing No:

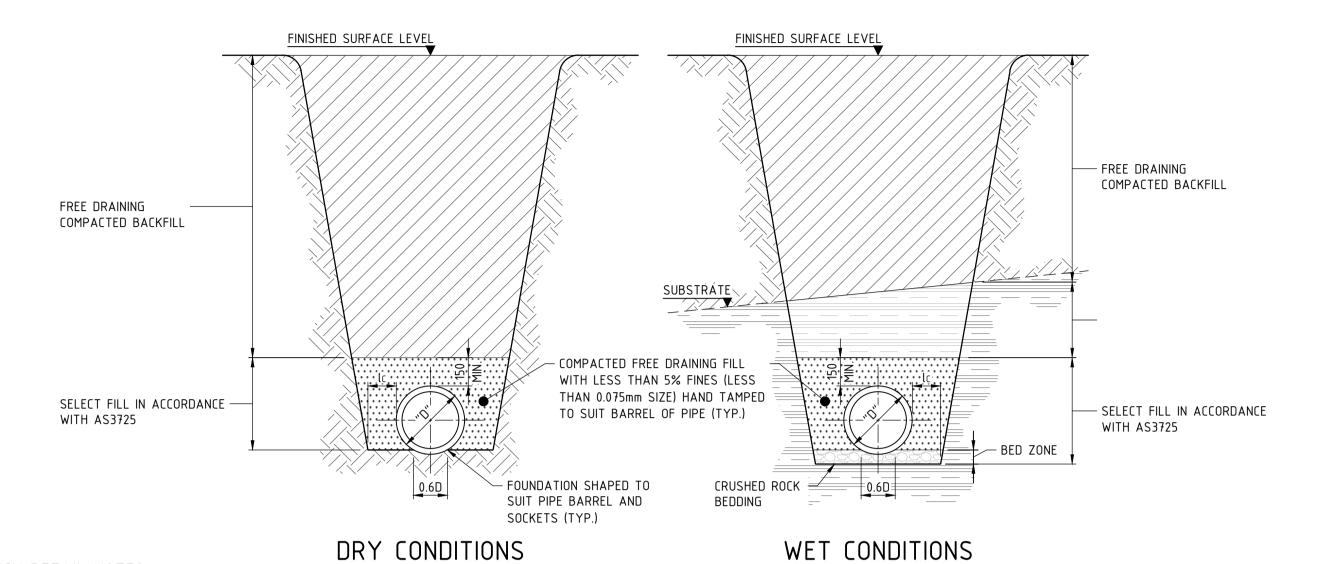
6/10/22

DATE

MBS FO RS YK NM TM DSN | DRN | CHK | APP This document must not be copied without PTA's written 100mm permission, and the contents thereof must not be imparted to a third party nor be used for any unauthorised purpose. Contractor No: R30-MET-DWG-CI-001-02501 Rev: B.1



AMENDMENT



TRENCH DETAIL NOTES

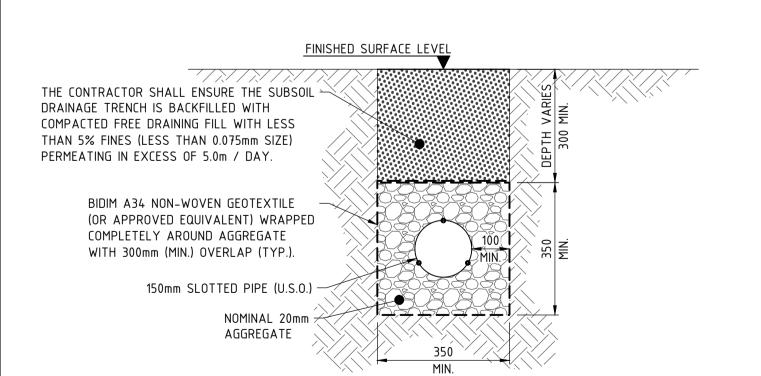
- ALL PIPE TRENCHES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AS3725 - DESIGN FOR INSTALLATION OF BURIED CONCRETE PIPES. SHOULD DISCREPANCIES EXIST, AS3725 TAKES PRECEDENCE.
- 2. DRY CONDITIONS SHALL BE SAND SOIL WHERE THE MAXIMUM PREDICTED GROUND WATER LEVEL (G.W.L.) IS A MINIMUM 300mm BELOW PIPE INVERT.
- 3. WET CONDITIONS SHALL BE CONSIDERED AS BEING IN ROCK, CLAY OR SAND WHERE THE MAXIMUM PREDICTED G.W.L. IS HIGHER THAN 300mm BELOW PIPE INVERT.
- 4. BEDDING CONDITION SHALL BE CARRIED PAST ALL MANHOLES, GULLIES & OTHER DRAINAGE STRUCTURES DOWNSTREAM.
- 5. WHERE PIPES HAVE PROTRUDING SOCKETS, SUITABLE RECESSES
 SHALL BE PROVIDED IN THE SUPPORTING MATERIALS TO ENSURE
 THAT THE PIPES DO NOT BEAR ON THE SOCKETS (TYP.)

TYPICAL CONCRETE PIPE TRENCH DETAILS

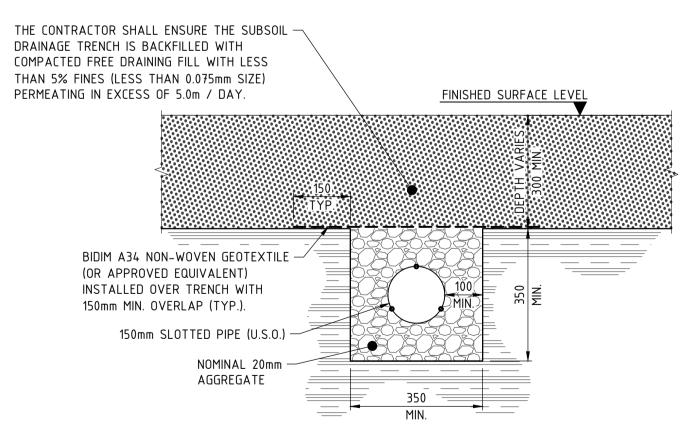
(SUPPORT TYPE "U")

MINIMUM BED ZONE DEPTHS						
SUPPORT TYPE	DEPTH (mm)					
U	75					
H / HS ≤ Ø1500	100					
H / HS > Ø1500	150					

MINIMUM SIDE CLEARANCE "l _c " (D/6 or l _c , WHICHEVER IS GREATER)					
PIPE DIAMETER L _C					
≤600	150				
>600 - ≤1200	200				
>1200	D/6				
NOTE: THE MINIMUM Lc VALUES SHALL ONLY BE USED WHERE NECESSARY COMPACTION VALUES CAN BE ASSURED.					



TYPICAL SUBSOIL DRAINAGE TRENCH DETAIL - PERVIOUS

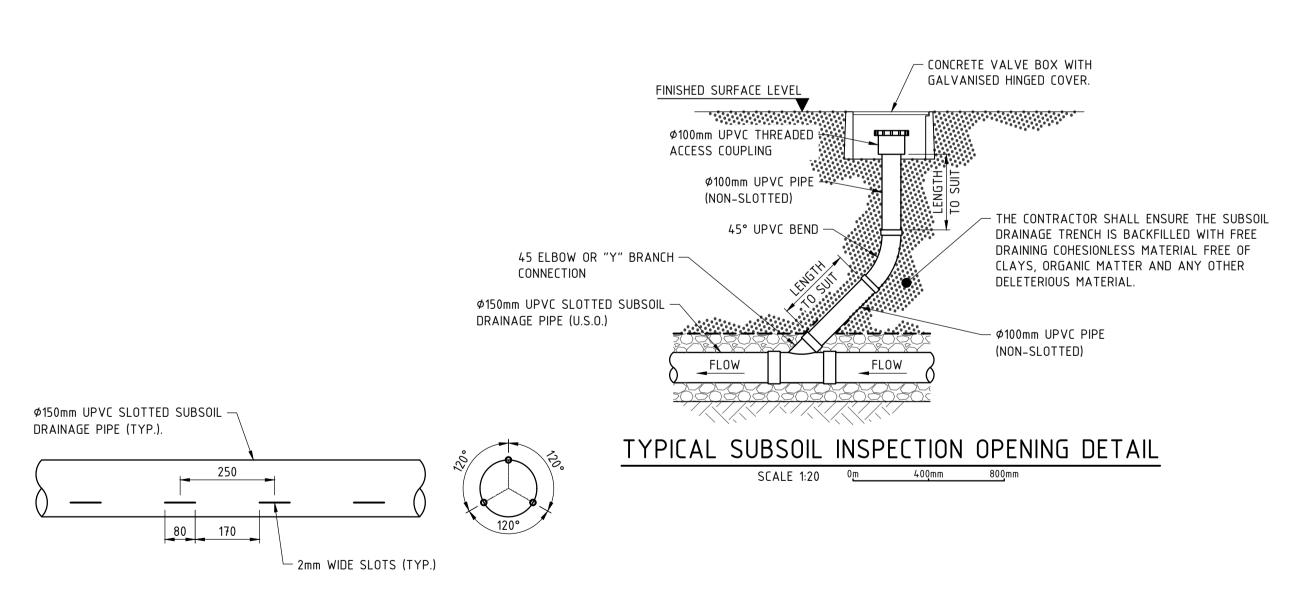


TYPICAL SUBSOIL DRAINAGE TRENCH DETAIL - IMPERVIOUS

FINISHED SURFACE LEVEL TRENCH DETAIL NOTES 1. ALL PIPE TRENCHES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AS3725 - DESIGN FOR INSTALLATION OF BURIED CONCRETE PIPES. SHOULD DISCREPANCIES EXIST, AS3725 TAKES PRECEDENCE. 2. BEDDING CONDITION SHALL BE CARRIED PAST ALL MANHOLES, GULLIES & OTHER DRAINAGE STRUCTURES DOWNSTREAM. 3. WHERE PIPES HAVE PROTRUDING SOCKETS, SUITABLE RECESSES — FREE DRAINING SHALL BE PROVIDED IN THE SUPPORTING MATERIALS TO ENSURE COMPACTED BACKFILL THAT THE PIPES DO NOT BEAR ON THE SOCKETS (TYP.) - COMPACTED IN-SITU MATERIAL __AT TOP OF PIPE: BACKFILLED TO MATCH SUBSTRATE LEVEL. (SUBJECT TO AUTHORITY APPROVAL) OVERLAY ZONE-EMBEDMENT -— SELECT FILL IN ACCORDANCE WITH AS3725 SIDE ZONE — HAUNCH ZONE (y)-— BEDDING BED ZONE (x)

PIPE I.D. (mm)	PIPE O.D. (mm)	MINIMUM TRENCH		ZONE DEPTHS ("		mm			EARANCE "l _c "					
	"D"	WIDTH "B" (mm)	SUPPORT TYPE	DEPTH (mm)	HAUNCH ZONE " y" = 0.1D	HAUNCH ZONE "y" = 0.3D	BEDDING "z" ≥ 0.5D	PIPE DIAMETER	l _c					
300	362	650			37	109	185							
375	445	750	H / HS ≤ Ø1500	H / HS ≤	H / HS ≤	H / HS ≤	H / HS ≤	H / HS ≤	I / HS ≤ 100	45	134	225	≤600	150
450	534	850		100	54	161	270							
525	616	900			62	185	310							
600	698	1000			70	210	350	>600 - ≤1200	200					
750	864	1150			87	260	435							
900	1042	1400	H / HS >	450	105	313	525							
1050	1220	1650	ø1500 150	122	366	610	>1200	D/6						
1200	1372	1850			138	412	690	1						

TYPICAL CONCRETE PIPE TRENCH DETAILS (SUPPORT TYPE "H" AND "HS") SCALE 1:20 0m 400mm 800mm



TYPICAL SUBSOIL PIPE SLOT LAYOUT DETAIL

SCALE 1:10 0m 200mm 400mm

 1:10
 [minimpinimin]
 [minimpinimin]</t

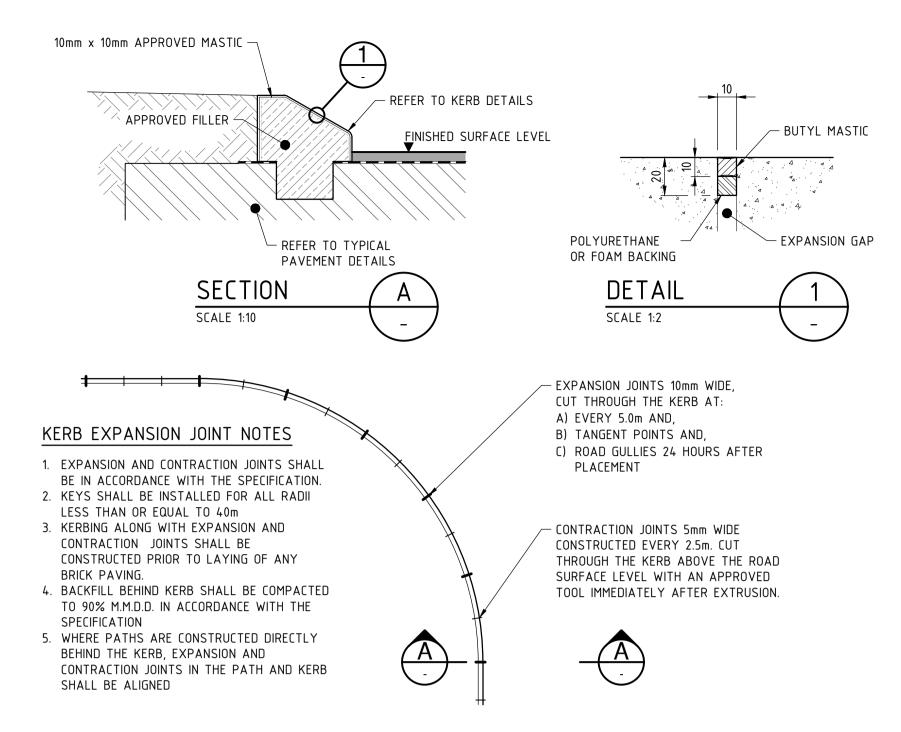
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Α	5/07/22	ISSUED FOR RD	F0	TM	YK	NM
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	YK FO DSN	MBS TM DRN	F0 YK CHK	RS NM APP	MetCONX
permission	, and the cor	ntents thereo	without PTA of must not b y unauthoris	e imparted	Contractor No: R30-MET-DWG-CI-001-02502 Rev: B.1

REFERENCES	SCALE		DESIGNED	RT
LOGO_METCONNX				Π Ι
	AS SHOWN		DRAWN	MBS
			CHECKED	VIZ
	DATUM			YK
	HORIZONTAL:	DCG2020	APPROVED	
				ΑE
	VERTICAL:	AHD71	DATE	6/10/22

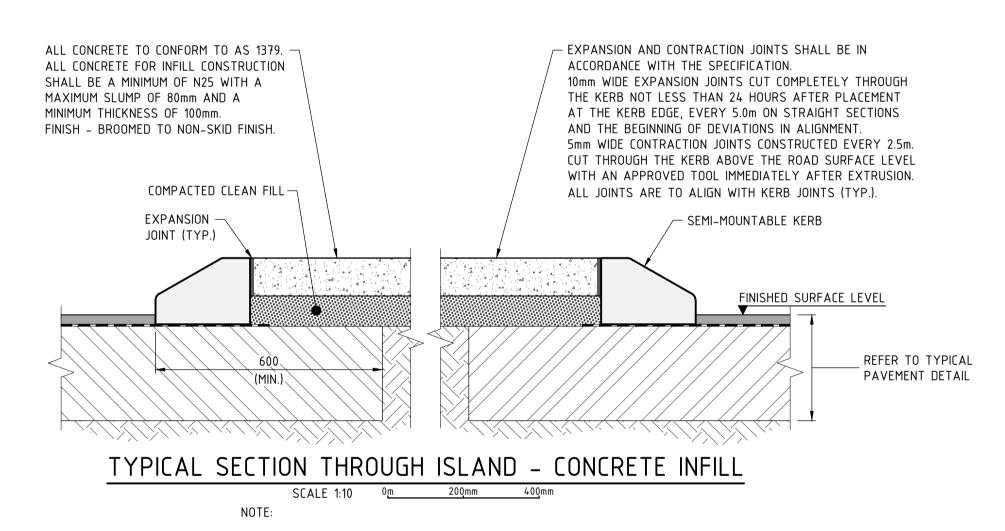
ISSUED FOR DA						
Government of Western Australia BYFORD RAIL EXTENSION BYFORD RAIL EXTENSION						
ENABLING WORKS						
CIVIL WORKS - TEMPORARY BUS INTERCHANGE						
TYPICAL DETAILS - SHEET 3						
PTA Drawing No: 11-C-04-0028 Rev: B.1						

AT ORIGINAL PLOT SIZE



KERB EXPANSION JOINT AND CRACK CONTROL DETAILS

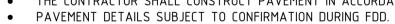
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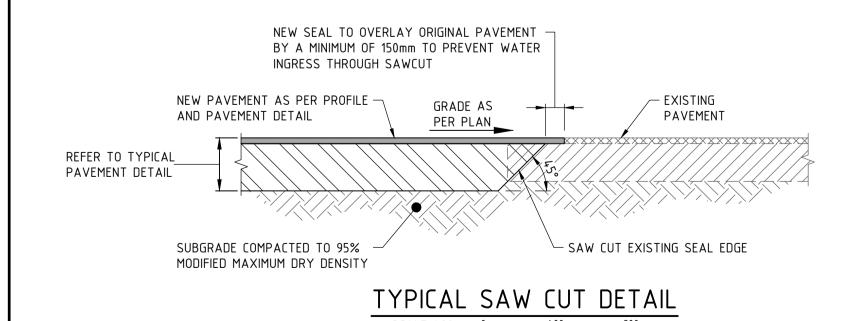


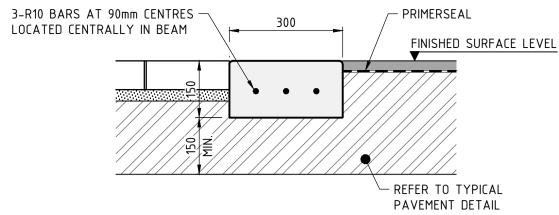
• THE CONTRACTOR SHALL CONSTRUCT PAVEMENT IN ACCORDANCE WITH AS2150 AND CIVIL SPECIFICATIONS AND DETAILS.

permission, and the contents thereof must not be imparted

to a third party nor be used for any unauthorised purpose.

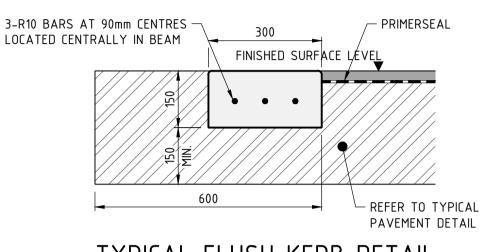






TYPICAL FLUSH KERB INTERFACE WITH BRICK PAVING DETAIL

SCALE 1:10 0m 200mm 400mm NOTE: ALL RADII ARE 10mm U.S.O.



NOTE: ALL RADII ARE 10mm U.S.O.

COMPACTED -BACKFILL FINISHED SURFACE LEVEL — 150 x 100 KEY WHEN ON PRIMER SEAL RADIUS OF 40m OR LESS

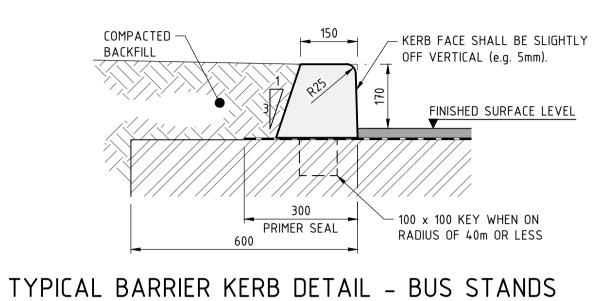
300

PRIMER SEAL

TYPICAL MOUNTABLE KERB DETAIL

SCALE 1:10 0m 200mm 400mm

NOTE: ALL RADII ARE 20mm U.S.O.



PRIMER SEAL

TYPICAL BARRIER KERB DETAIL

SCALE 1:10 0m

— KERB FACE SHALL BE SLIGHTLY

FINISHED SURFACE LEVEL

OFF VERTICAL (e.g. 5mm).

- 100 x 100 KEY WHEN ON

RADIUS OF 40m OR LESS

COMPACTED

BACKFILL

FINISHED SURFACE LEVEL

- 150 x 100 KEY WHEN ON

RADIUS OF 40m OR LESS

TYPICAL FLUSH KERB DETAIL SCALE 1:10 0m 200mm

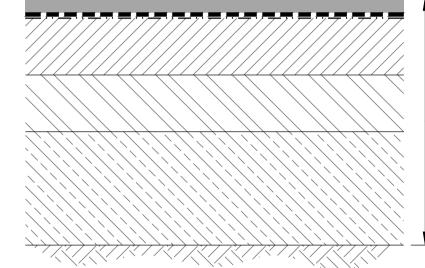
COMPACTED -

BACKFILL

SCALE 1:10 0<u>m 200mm 400</u>mm

TYPICAL SEMI-MOUNTABLE KERB DETAIL NOTE: ALL RADII ARE 20mm U.S.O.

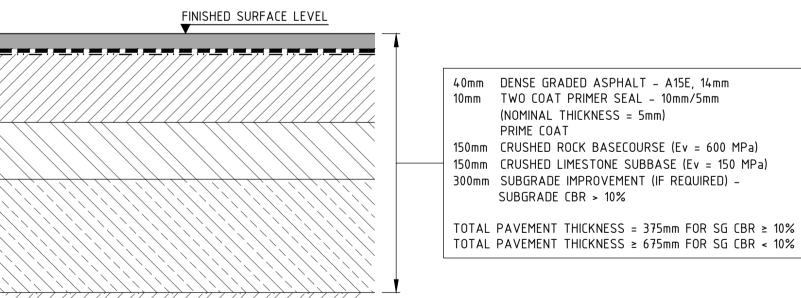
FINISHED SURFACE LEVEL



40mm DENSE GRADED ASPHALT - A15E, 14mm TWO COAT PRIMER SEAL - 10mm/5mm (NOMINAL THICKNESS = 5mm) PRIME COAT 150mm CRUSHED ROCK BASECOURSE (Ev = 600 MPa) 150mm GRANULAR SUBBASE (Ev = 150 MPa) 300mm SUBGRADE IMPROVEMENT (IF REQUIRED) - SUBGRADE CBR 12% TOTAL PAVEMENT THICKNESS = 335mm FOR SG CBR ≥ 12% TOTAL PAVEMENT THICKNESS ≥ 635mm FOR SG CBR < 12%

TYPICAL PAVEMENT DETAIL - TYPE 7

 THE CONTRACTOR SHALL CONSTRUCT PAVEMENT IN ACCORDANCE WITH AS2150 AND CIVIL SPECIFICATIONS AND DETAILS. PAVEMENT DETAILS SUBJECT TO CONFIRMATION DURING FDD.



TYPICAL PAVEMENT DETAIL - TYPE 8

THE CONTRACTOR SHALL CONSTRUCT PAVEMENT IN ACCORDANCE WITH AS2150 AND CIVIL SPECIFICATIONS AND DETAILS.

PAVEMENT DETAILS SUBJECT TO CONFIRMATION DURING FDD.

0.1m 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4

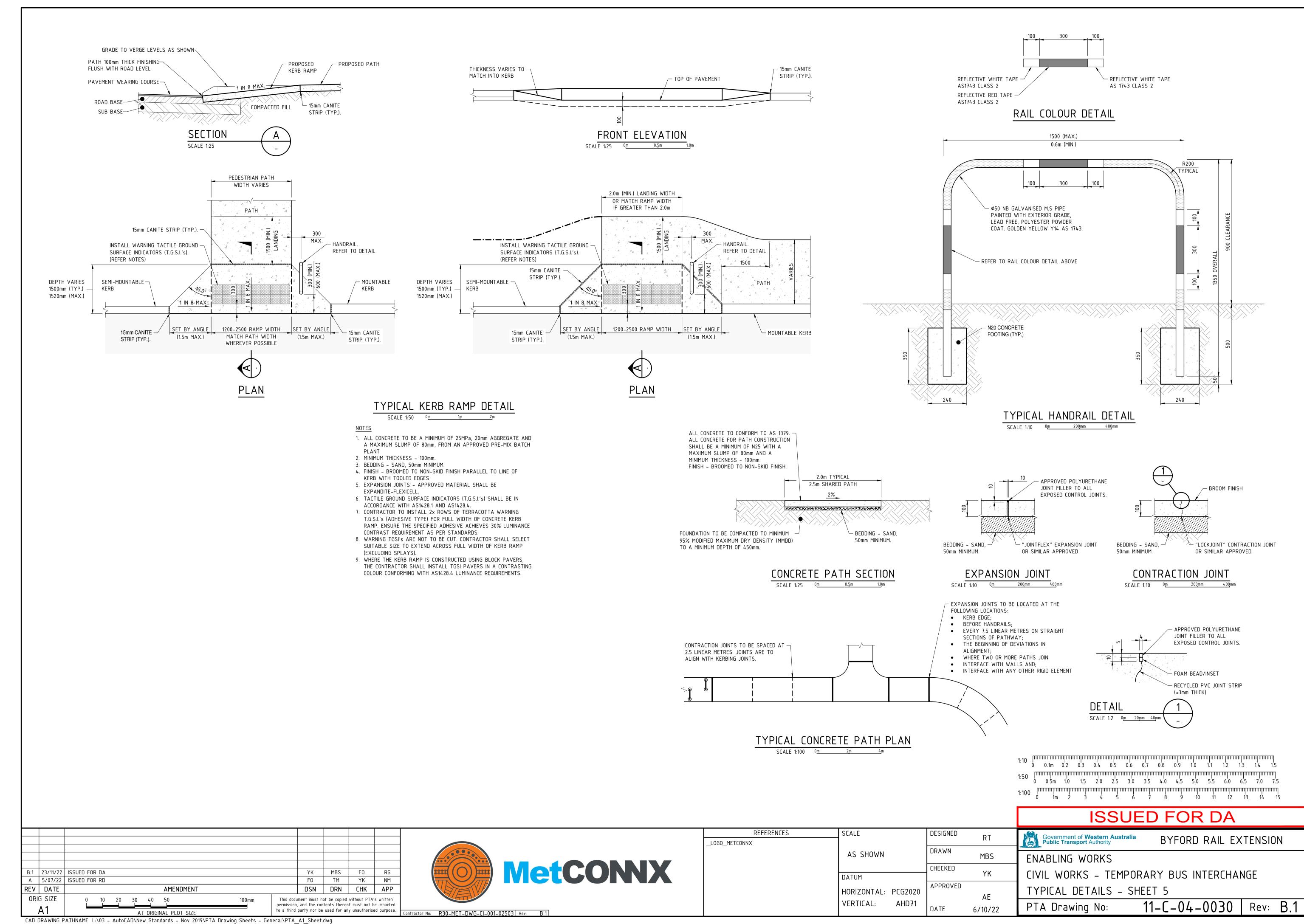
B.1 23/11/22 ISSUED FOR DA MBS FO RS A 5/07/22 ISSUED FOR RD TM YK NM REV DATE **AMENDMENT** DSN | DRN | CHK | APP ORIG SIZE 0 10 20 30 40 50 This document must not be copied without PTA's written

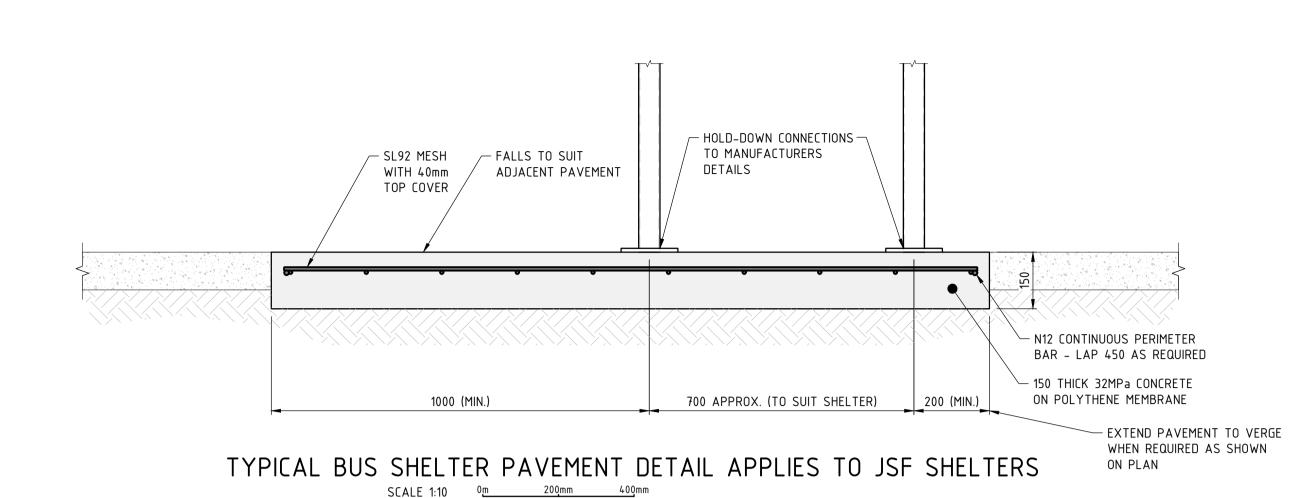


REFERENCES	SCALE	DESIGNED	RT
_LOGO_METCONNX			IV I
	AS SHOWN	DRAWN	MBS
		CHECKED	VIZ
	DATUM		YK
	HORIZONTAL: PCG2020	APPROVED	
			ΑE
	VERTICAL: AHD71	DATE	6/10/22

ISSUED FOR DA Government of Western Australia Public Transport Authority BYFORD RAIL EXTENSION **ENABLING WORKS** CIVIL WORKS - TEMPORARY BUS INTERCHANGE TYPICAL DETAILS - SHEET 4 11-C-04-0029 | Rev: B.1 PTA Drawing No:

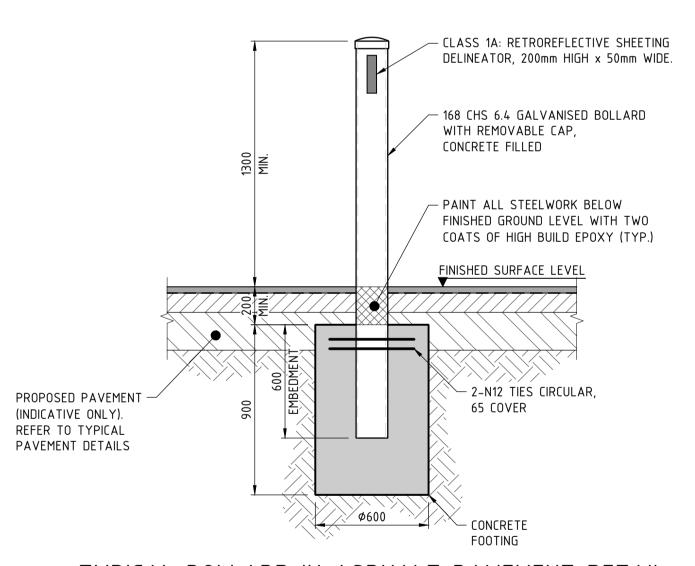
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NOTE:

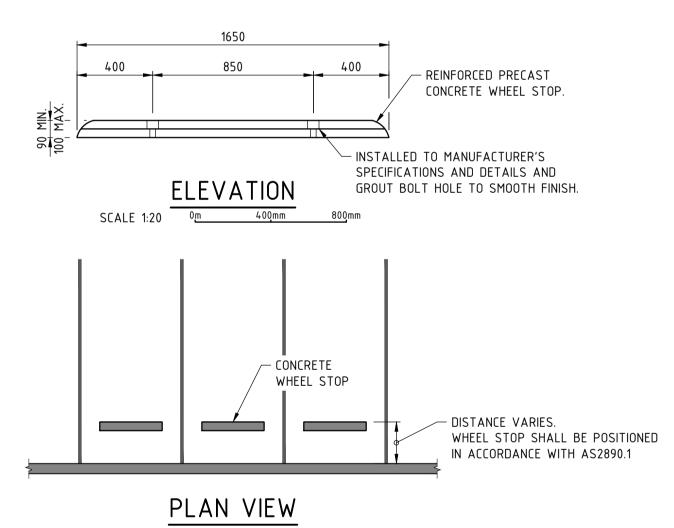
- 1. MINIMUM EDGE DISTANCE BETWEEN CONCRETE
- EDGE AND NEAREST ANCHORS: 100mm 2. PAVEMENT TO BE POURED ON DPM ON WELL
- COMPACTED SAND.



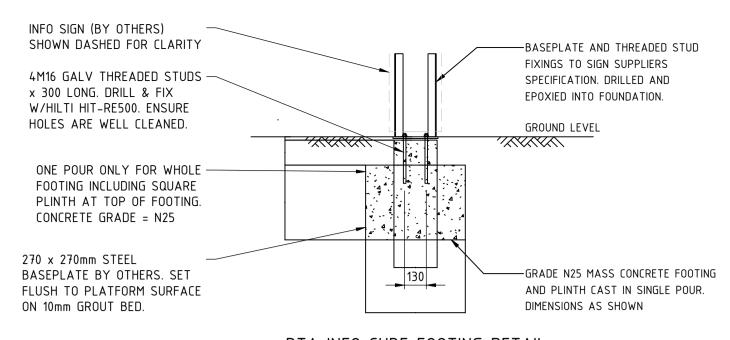
TYPICAL BOLLARD IN ASPHALT PAVEMENT DETAIL

SCALE 1:20 0m 400mm 800mm NOTES

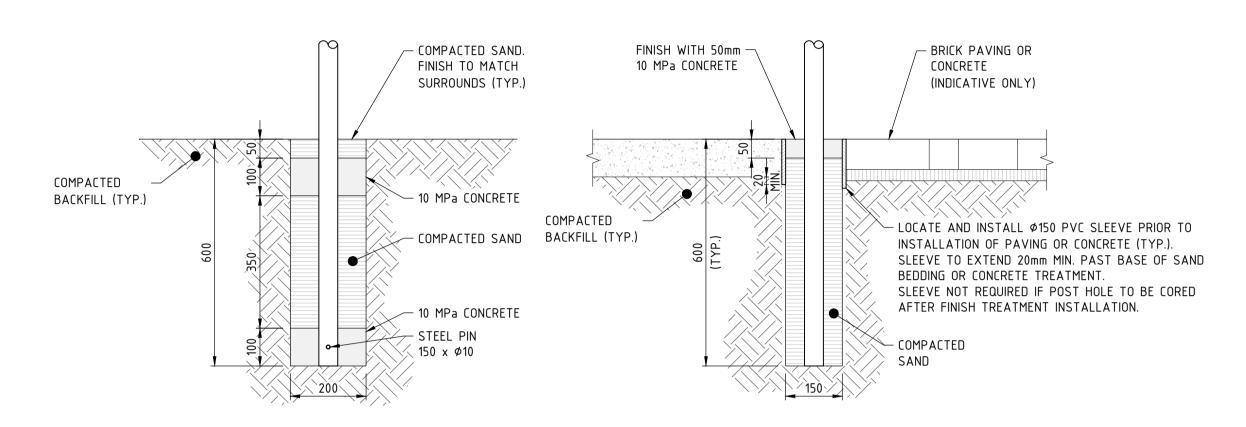
- 1. THE BOLLARD SHALL COMPLY WITH AS3845.
- 2. BOLLARD DESIGNED FOR 10kN INCIDENTAL LOAD ONLY. NOT DESIGNED TO AS1170.1 BARRIER LOADS.
- 3. REFER TO THE ARCHITECTS DOCUMENTATION FOR LOCATIONS AND HEIGHTS.



TYPICAL CONCRETE WHEEL STOP DETAIL SCALE 1:100 0<u>m 2m 4</u>m



PTA INFO CUBE FOOTING DETAIL

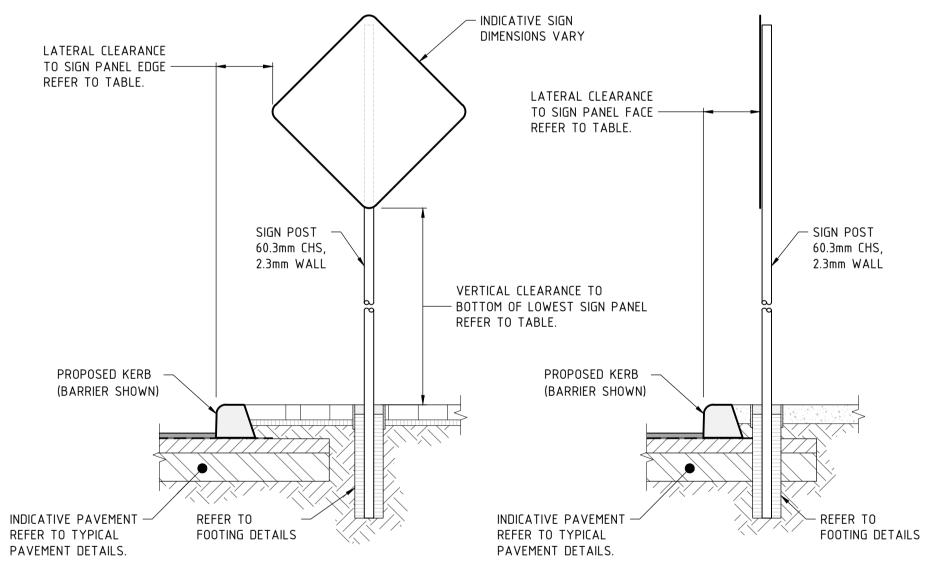


FOOTING DETAIL GENERAL / VERGE

FOOTING DETAIL TRAFFIC ISLAND, PATH OR OTHER PAVED / SURFACED AREA

<u>CLEARANCE</u>
MIN. CLEARANCE (mm)
300
500
500
2000

SIGN PANEL VERTICAL	CLEARANCE
DESIGN SCENARIO	MIN. CLEARANCE (mm)
LOCATED IN UNPAVED VERGE - FROM VERGE LEVEL - FROM PAVEMENT LEVEL	2000 2200
WHEN OVER HANGING OR LOCATED WITHIN FOOTWAY	2500



TYPICAL ROAD SIGN CLEARANCE AND FOOTING DETAILS

NOTES

- 1. LOCAL AUTHORITY OR CLIENT SPECIFICATIONS AND DETAILS TAKE PRECEDENCE.
- 2. DETAIL FOR USE IN WIND REGIONS 'A' AND 'B' ONLY. FOOTINGS FOR WIND REGIONS 'C' AND 'D' SHALL BE STRUCTURALLY ENGINEERED.
- 3. SIGN INSTALLATION SHALL COMPLY WITH AS2890 SERIES AND AS1742 SERIES
- 4. IF LOCATED WITHIN ROAD RESERVE, SIGN INSTALLATION SHALL COMPLY WITH
- MAIN ROADS W.A. SPECIFICATIONS AND DETAILS.
 - 0.1m 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4

B.1 23/11/22 ISSUED FOR DA MBS FO RS A 5/07/22 ISSUED FOR RD TM YK NM DSN DRN CHK APP REV DATE **AMENDMENT** ORIG SIZE This document must not be copied without PTA's written 0 10 20 30 40 50 permission, and the contents thereof must not be imparted to a third party nor be used for any unauthorised purpose.

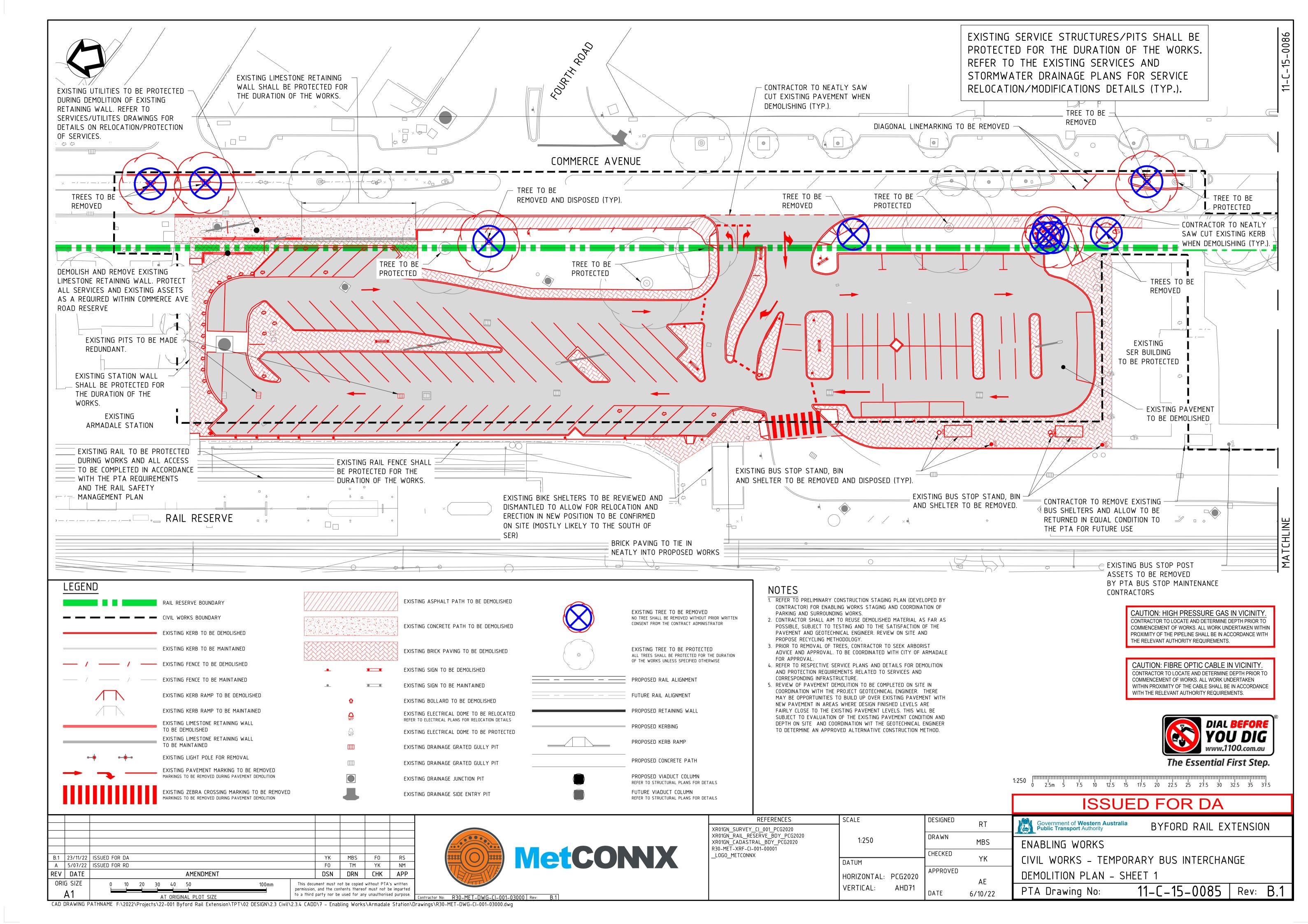


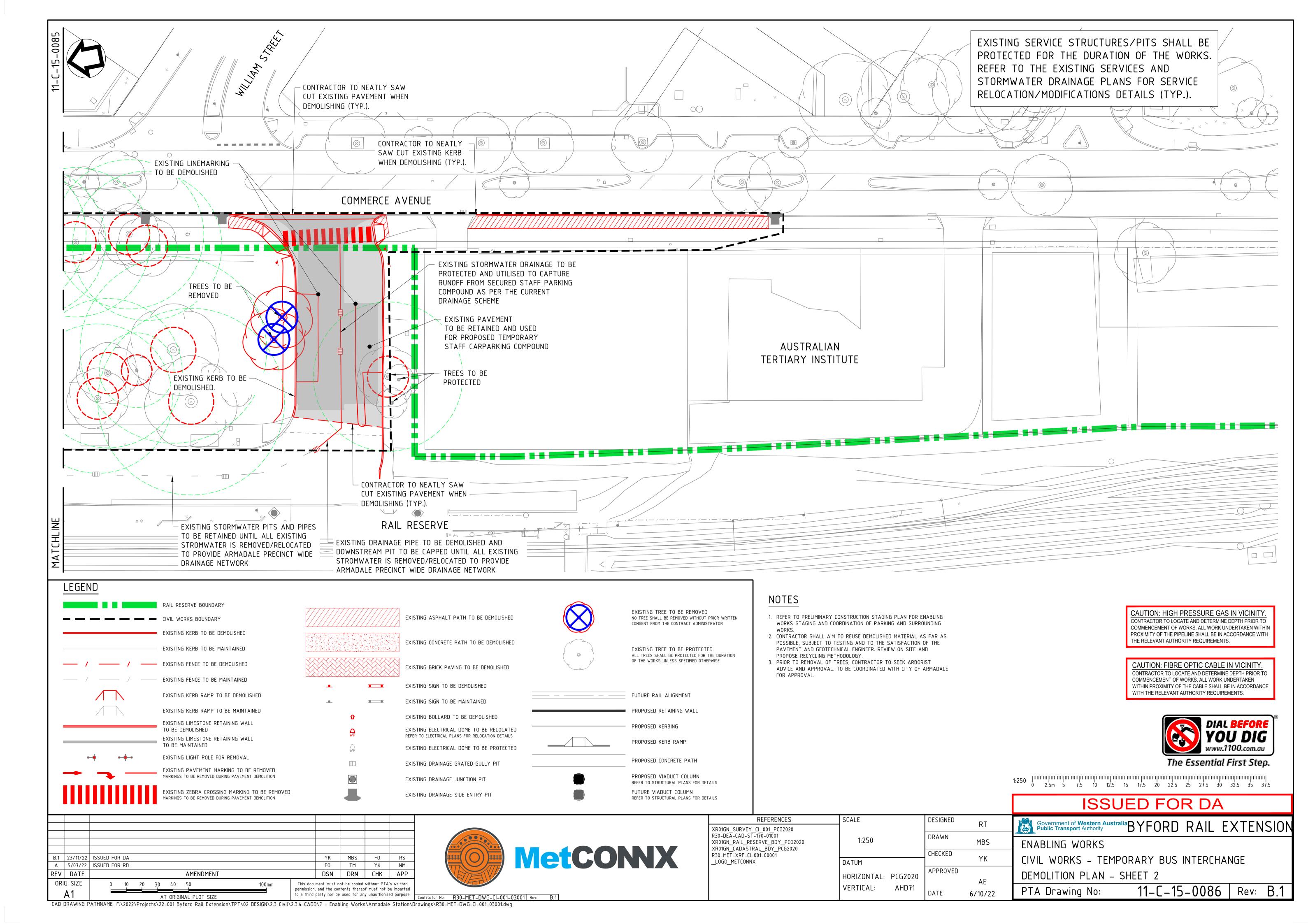
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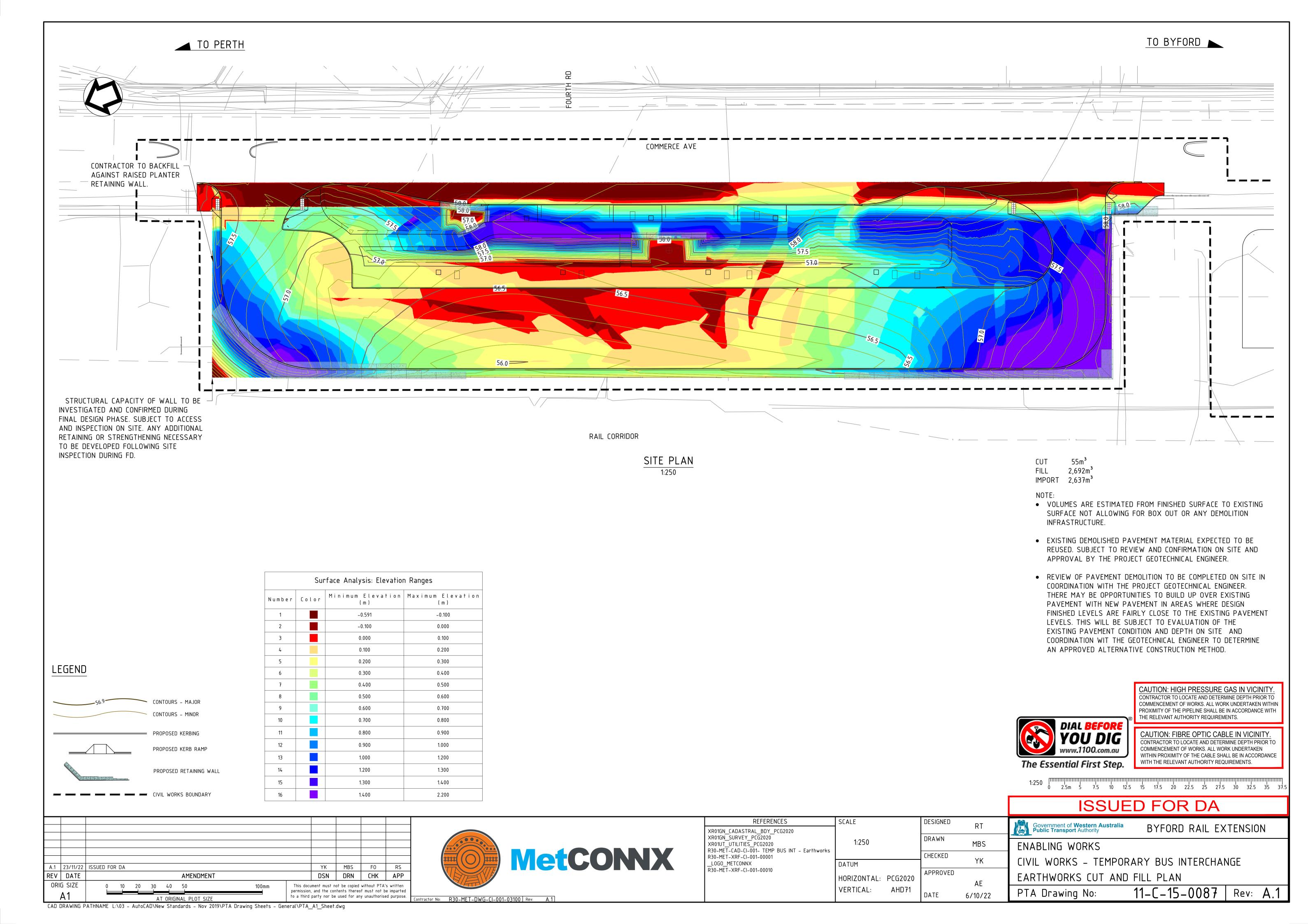
ISSUED FOR DA rnment of **Western Australia**: **Transport** Authority BYFORD RAIL EXTENSION ING WORKS WORKS - TEMPORARY BUS INTERCHANGE AL DETAILS - SHEET 6 11-C-04-0031 Rev: B.1 PTA Drawing No:

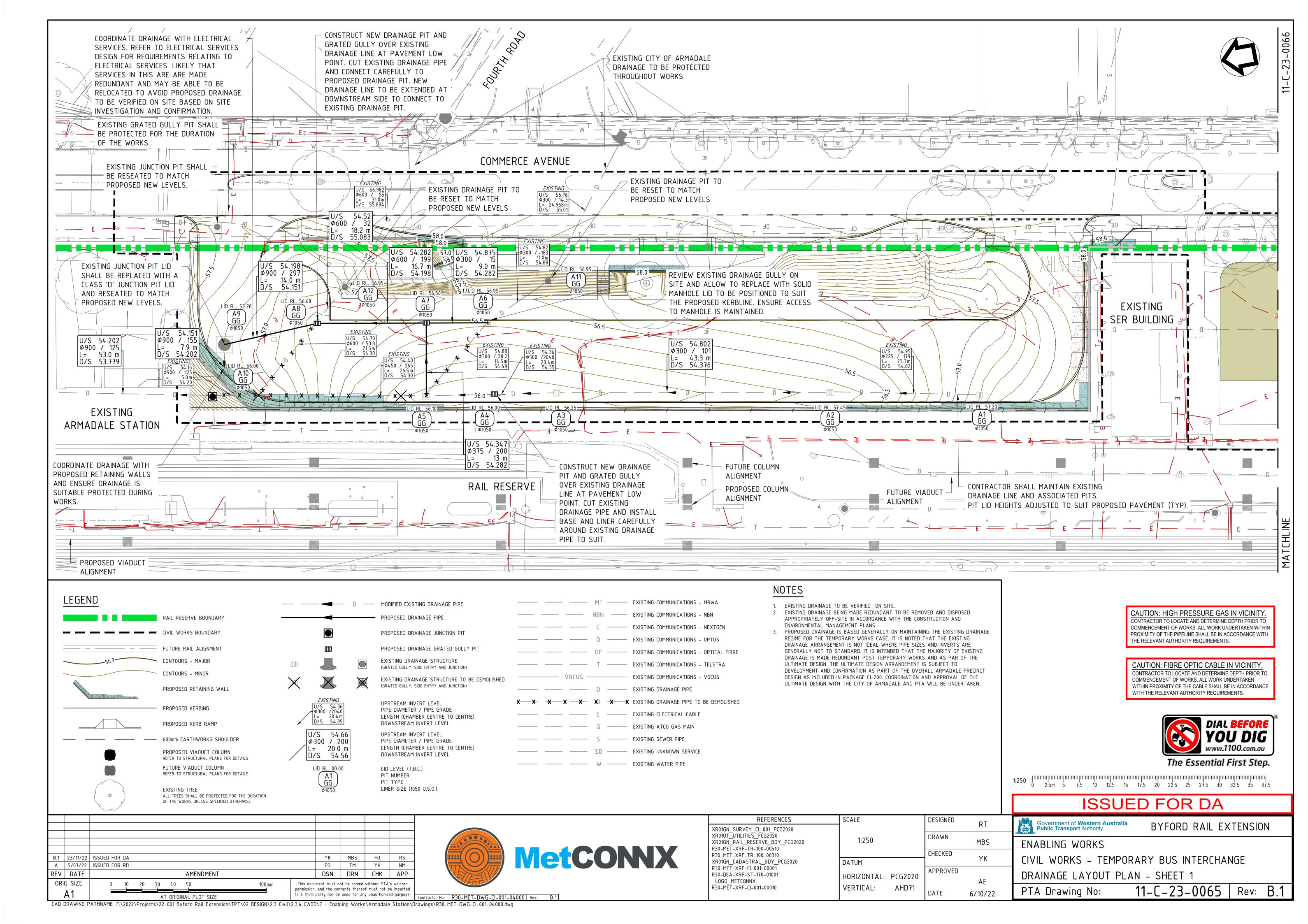
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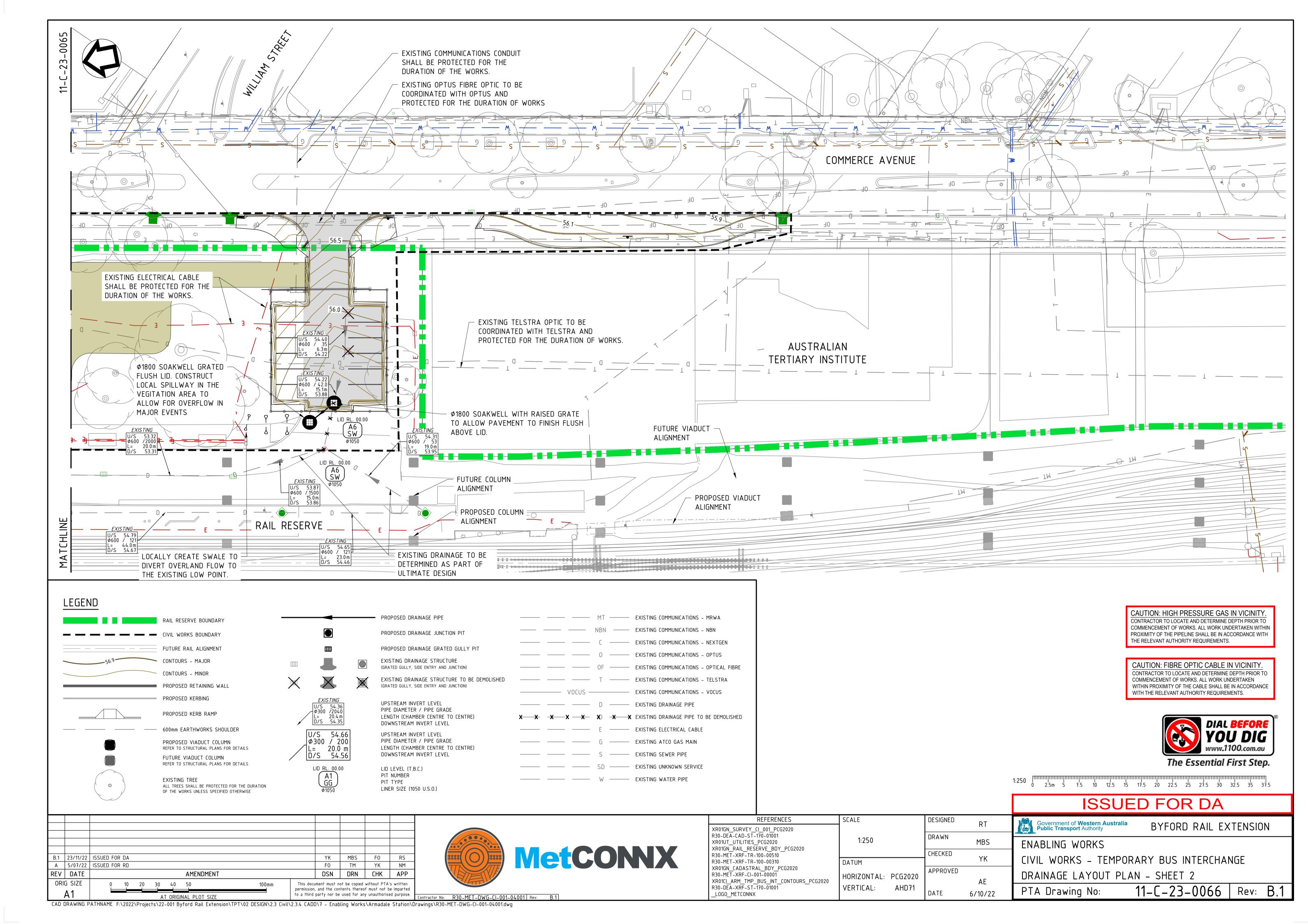
AT ORIGINAL PLOT SIZE





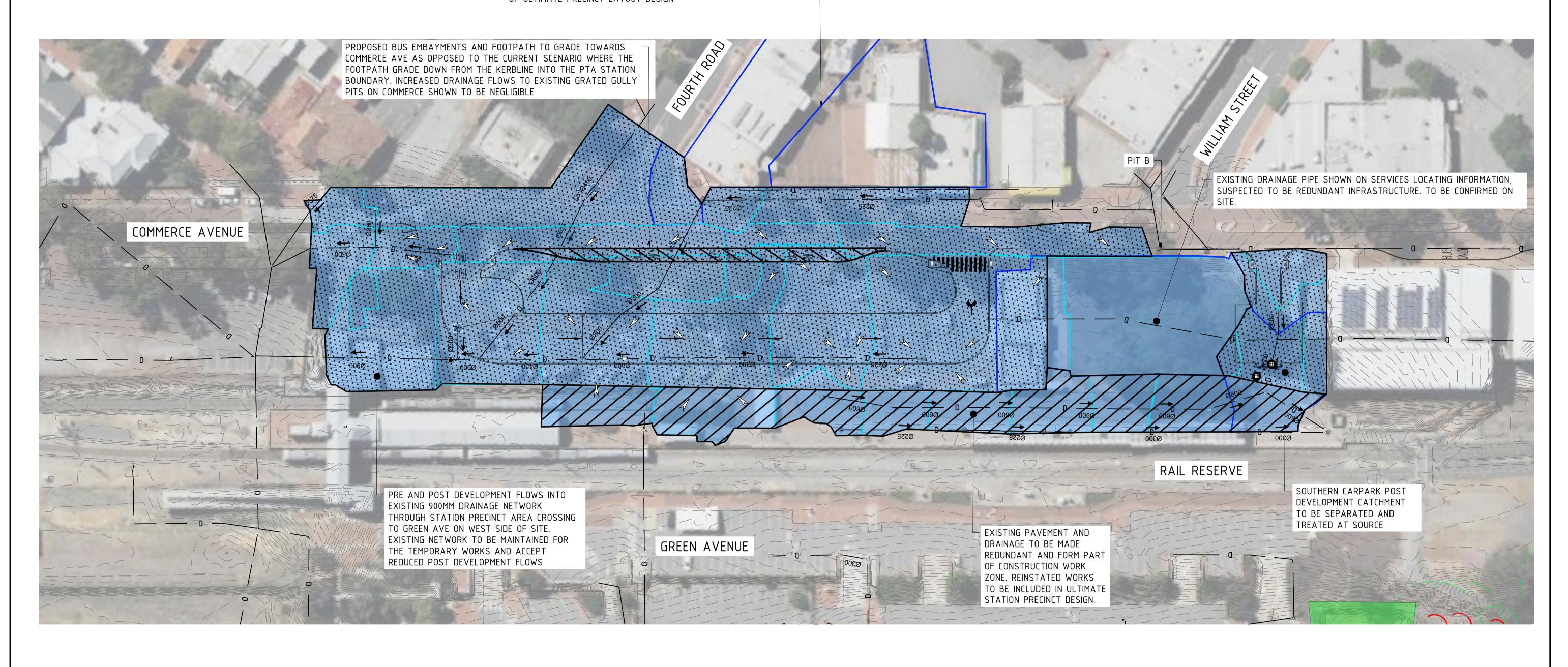








UPSTREAM CATCHMENTS SUBJECT TO CONFIRMATION AND DEVELOPMENT OF ULTIMATE PRECINCT LAYOUT DESIGN







PRE-DEVELOPMENT CATCHMENT BOUNDARY



POST DEVELOPMENT CATCHMENT BOUNDARY



EXISTING DRAINAGE PIPE



REV DATE

ORIG SIZE

EXISTING DRAINAGE PIPE FLOW DIRECTION

MAJOR CATCHMENT BOUNDARY

10 20 30 40 50

NOTES

1. POST DEVELOPMENT CATCHMENT BOUNDARY IS REDUCED FROM THE PREDEVELOPMENT CATCHMENT BOUNDARY AND THE DEGREE OF IMPERVIOUS AREA IS DECREASING. THE INTENT FOR THE TEMPORARY WORKS, GIVEN THE REDUCED TIMEFRAME OF OPERATION IS TO MAINTAIN THE EXISTING DRAINAGE NETWORK UNTIL SUCH TIME THAT THE TEMPORARY WORKS ARE NO LONGER REQUIRED AND SUPERSEDED BY THE ULTIMATE PRECINCT DESIGN. THE ULTIMATE DRAINAGE STRATEGY FOR THE ARMADALE PRECINCT IS STILL TO BE DETERMINED AND SUBJECT TO COORDINATION WITH THE PTA AND CITY OF ARMADALE

DSN DRN CHK APP

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CAUTION: HIGH PRESSURE GAS IN VICINITY. CONTRACTOR TO LOCATE AND DETERMINE DEPTH PRIOR TO COMMENCEMENT OF WORKS. ALL WORK UNDERTAKEN WITHIN PROXIMITY OF THE PIPELINE SHALL BE IN ACCORDANCE WITH

THE RELEVANT AUTHORITY REQUIREMENTS.

www.1100.com.au The Essential First Step.

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AMENDMENT



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CAUTION: FIBRE OPTIC CABLE IN VICINITY.

COMMENCEMENT OF WORKS. ALL WORK UNDERTAKEN

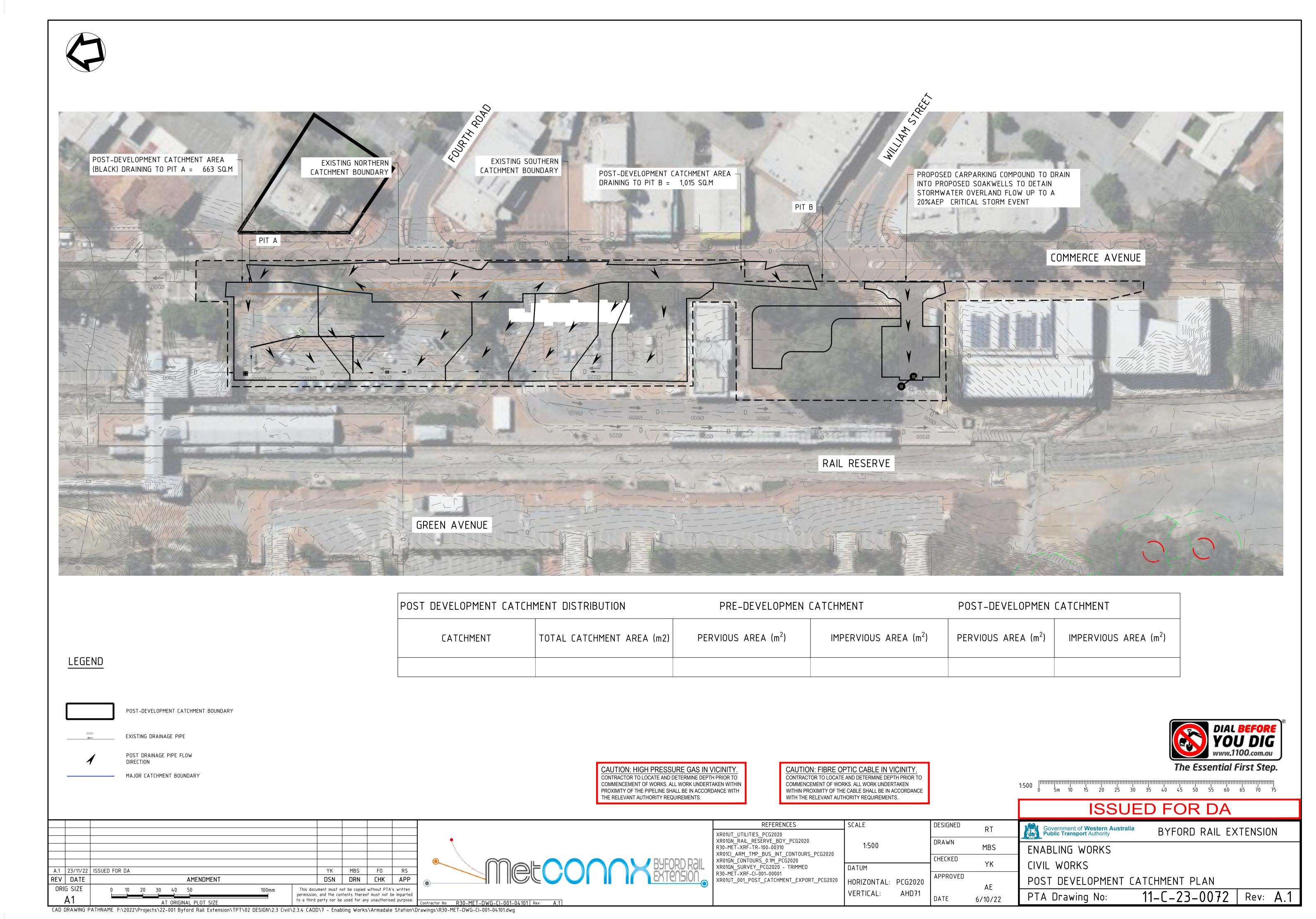
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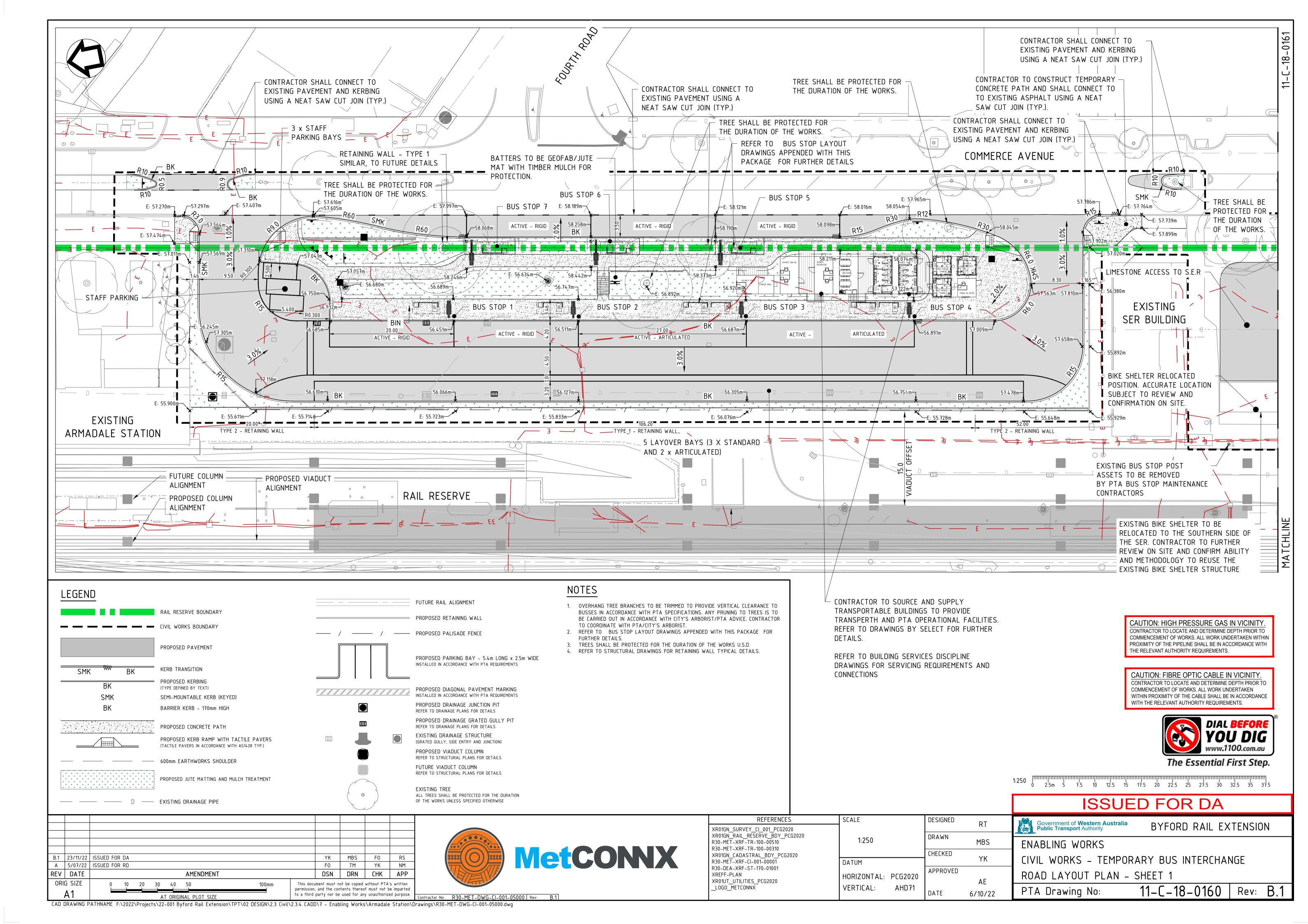
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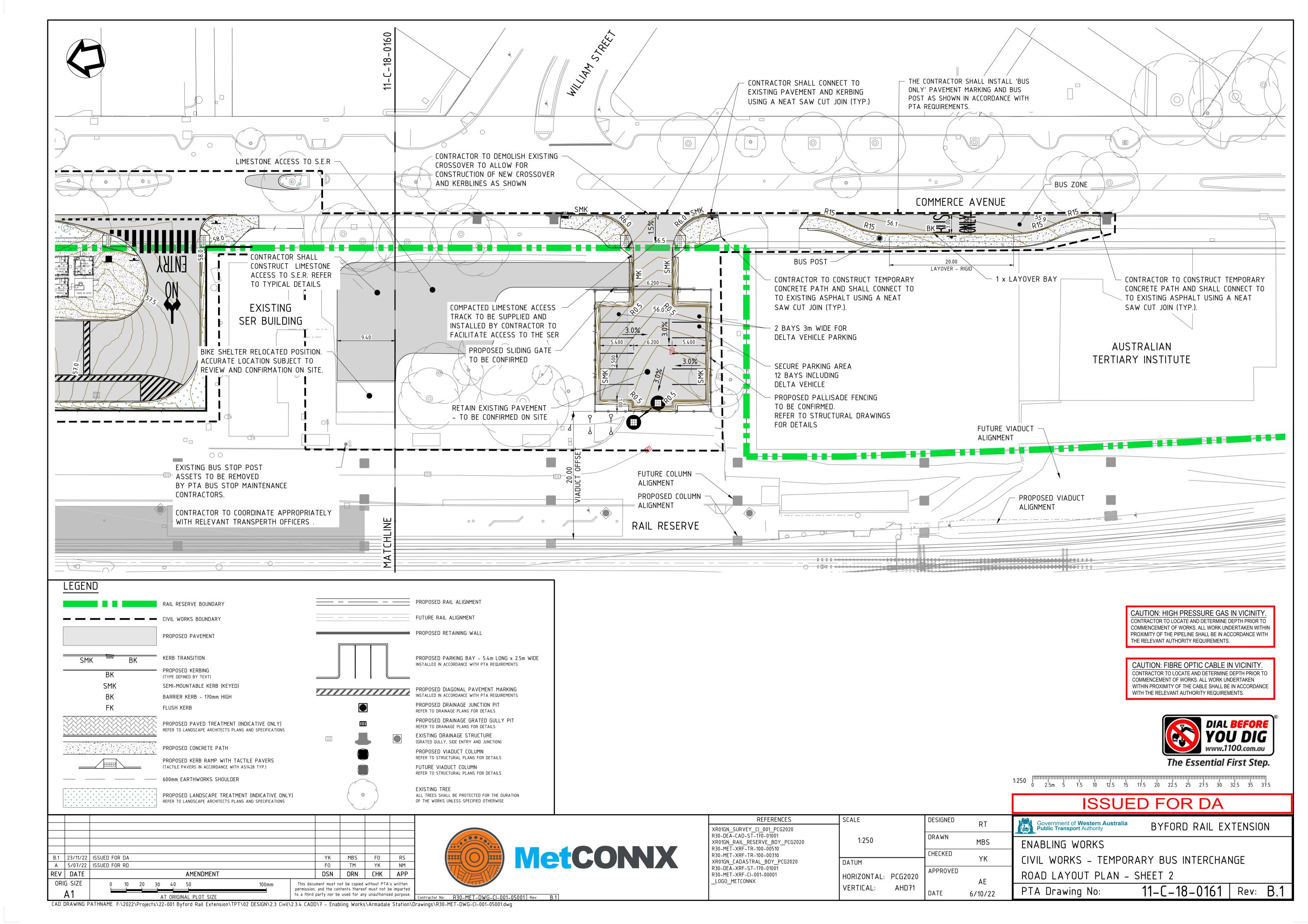
WITHIN PROXIMITY OF THE CABLE SHALL BE IN ACCORDANCE

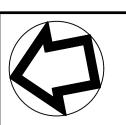
ISSUED FOR DA						
Government of Western Australia Public Transport Authority BYFORD RAIL EXTENSION						
ENABLING WORKS						
CIVIL WORKS						
DRAINAGE CATCHMENT PLAN						
PTA Drawing No: 11-C-23-0067 Rev: A						

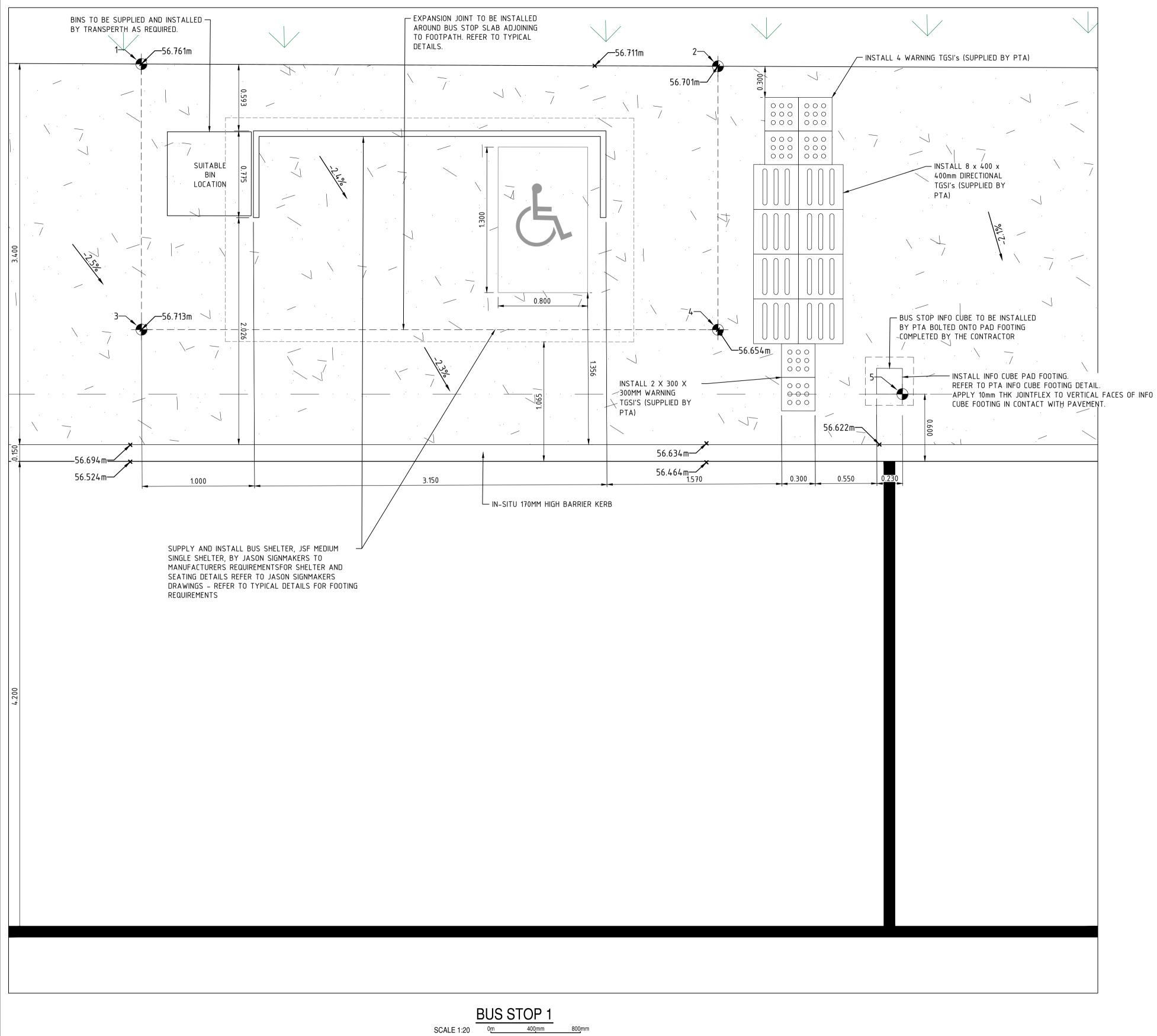
to a third party nor be used for any unauthorised purpose. AT ORIGINAL PLOT SIZE CAD DRAWING PATHNAME F:\2022\Projects\22-001 Byford Rail Extension\TPT\02 DESIGN\2.3 Civil\2.3.4 CADD\7 - Enabling Works\Armadale Station\Drawings\R30-MET-DWG-CI-001-04100.dwg







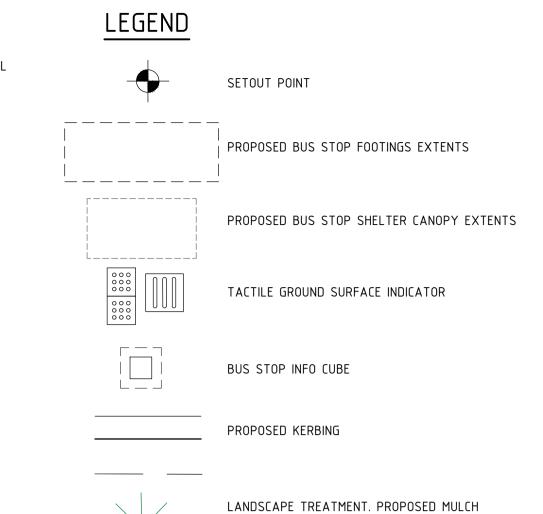




NOTES

 ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
 ALL KERBING ADJACENT TO BUS STOP HARDSTAND IS KASSEL KERB.

	RDSTAND AN STOP POS SETOUT POIN	T
Point #	Eastings	Northings
1	68551.57	341085.52
2	68550.56	341080.47
3	68549.24	341085.97
4	68548.26	341080.92
5	68547.38	341079.41



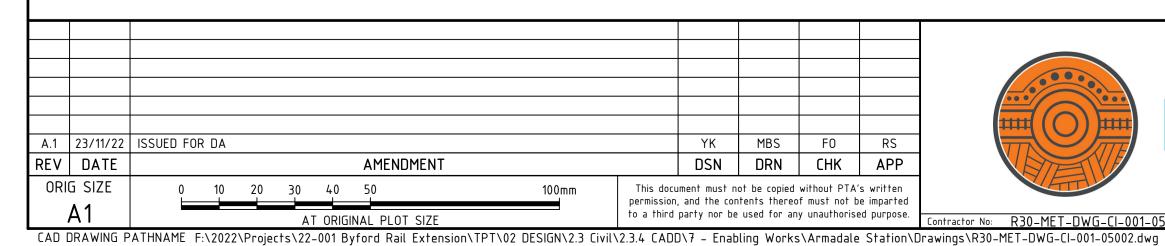
CAUTION: HIGH PRESSURE GAS IN VICINITY.
CONTRACTOR TO LOCATE AND DETERMINE DEPTH PRIOR TO
COMMENCEMENT OF WORKS. ALL WORK UNDERTAKEN WITHIN
PROXIMITY OF THE PIPELINE SHALL BE IN ACCORDANCE WITH
THE RELEVANT AUTHORITY REQUIREMENTS.

CAUTION: FIBRE OPTIC CABLE IN VICINITY.

CONTRACTOR TO LOCATE AND DETERMINE DEPTH PRIOR TO COMMENCEMENT OF WORKS. ALL WORK UNDERTAKEN WITHIN PROXIMITY OF THE CABLE SHALL BE IN ACCORDANCE WITH THE RELEVANT AUTHORITY REQUIREMENTS.



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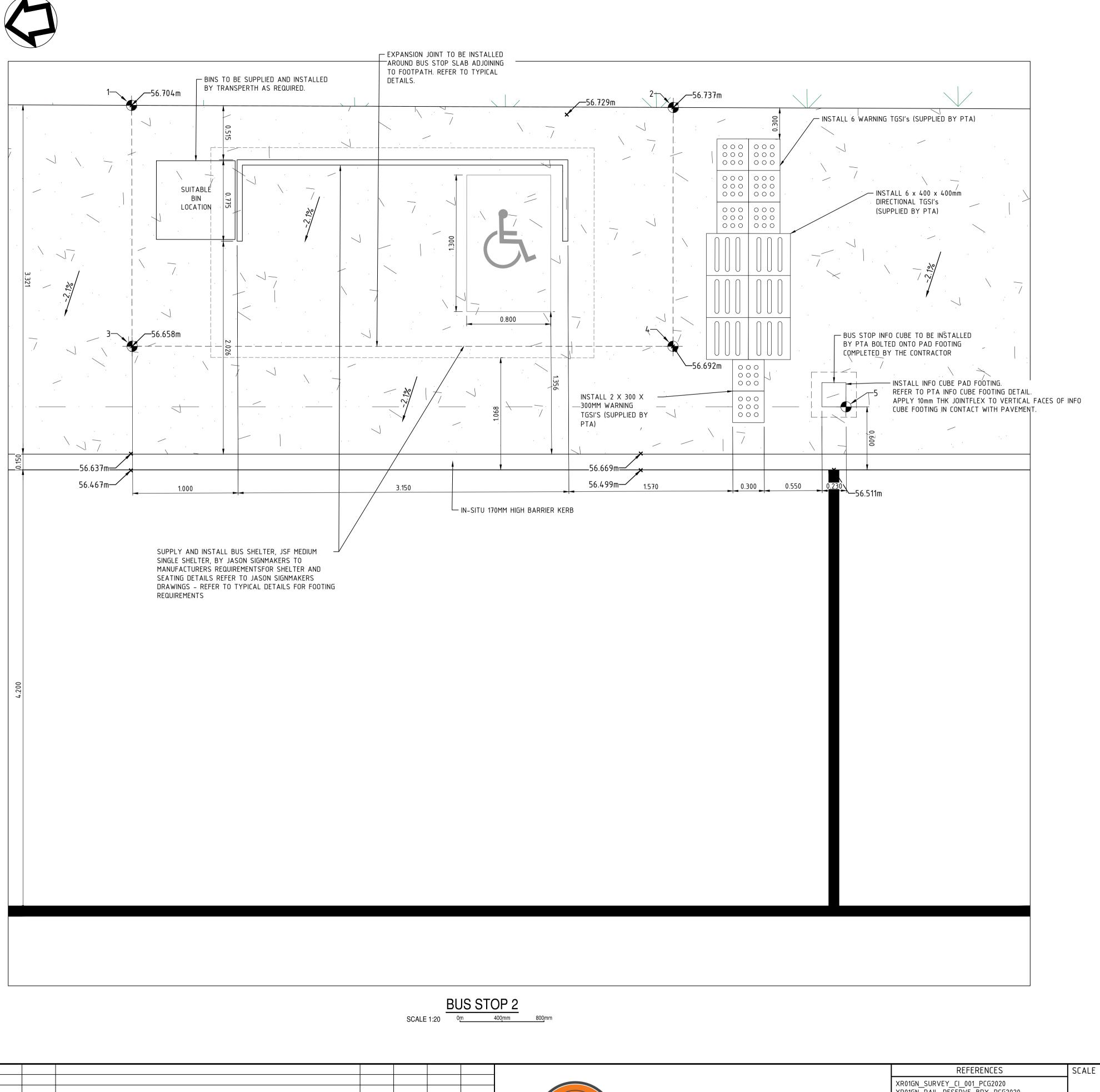




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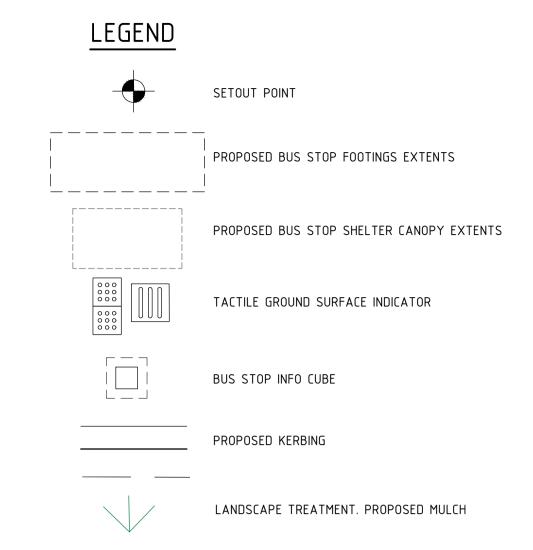
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	ENABLING WORKS						
	CIVIL WORKS – TEMPORAI	RY BUS INTERCHAI	NGE				
	BUS LAYOUT AND ARRANGEMENT PLAN - SHEET 1						
PTA Drawing No: 11-C-15-0088 Rev:							



NOTES

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN. 2. ALL KERBING ADJACENT TO BUS STOP HARDSTAND IS KASSEL

HARDSTAND AND BUS STOP POST SETOUT POINTS		
Point #	Eastings	Northing
1	68547.68	341065.91
2	68546.68	341060.85
3	68545.43	341066.34
4	68544.44	341061.28
5	68543.57	341059.77



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ISSUED FOR DA				
Government of Western Australia Public Transport Authority	BYFORD RAIL EXTENSION			
ENABLING WORKS				
CIVIL WORKS - TEMPORARY BUS INTERCHANGE				
BUS LAYOUT AND ARRANGEMENT PLAN - SHEET 2				

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AMENDMENT

AT ORIGINAL PLOT SIZE

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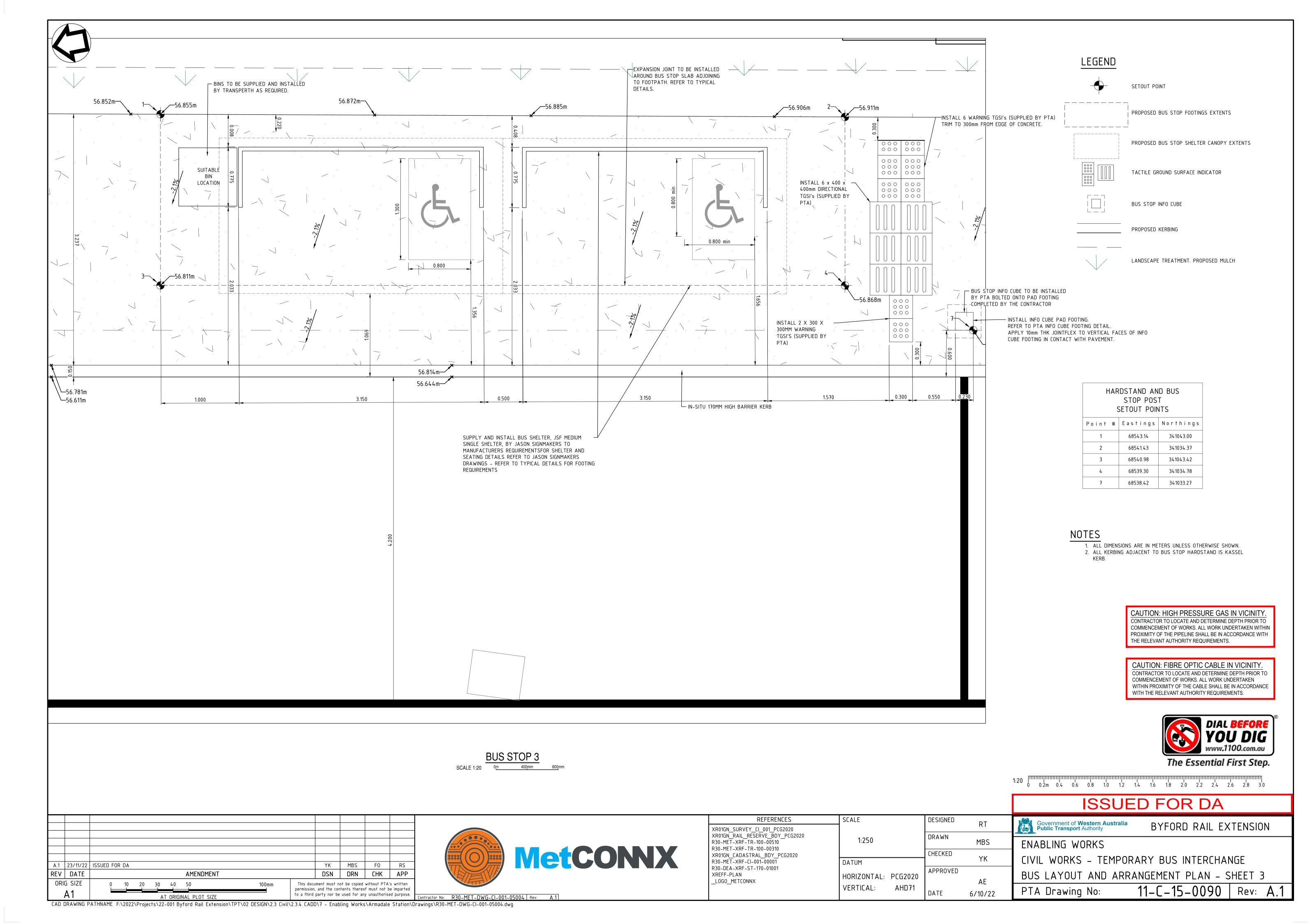
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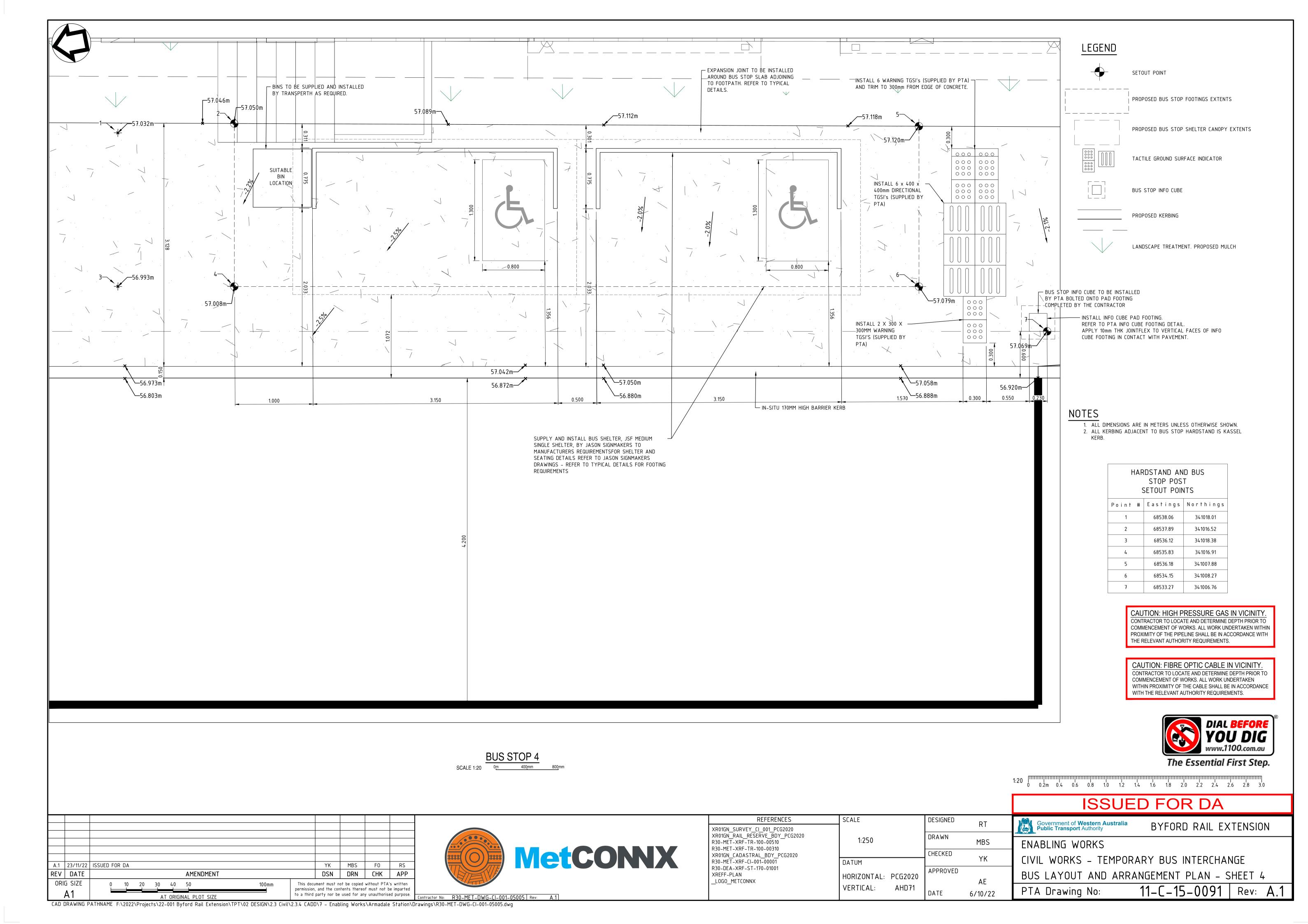
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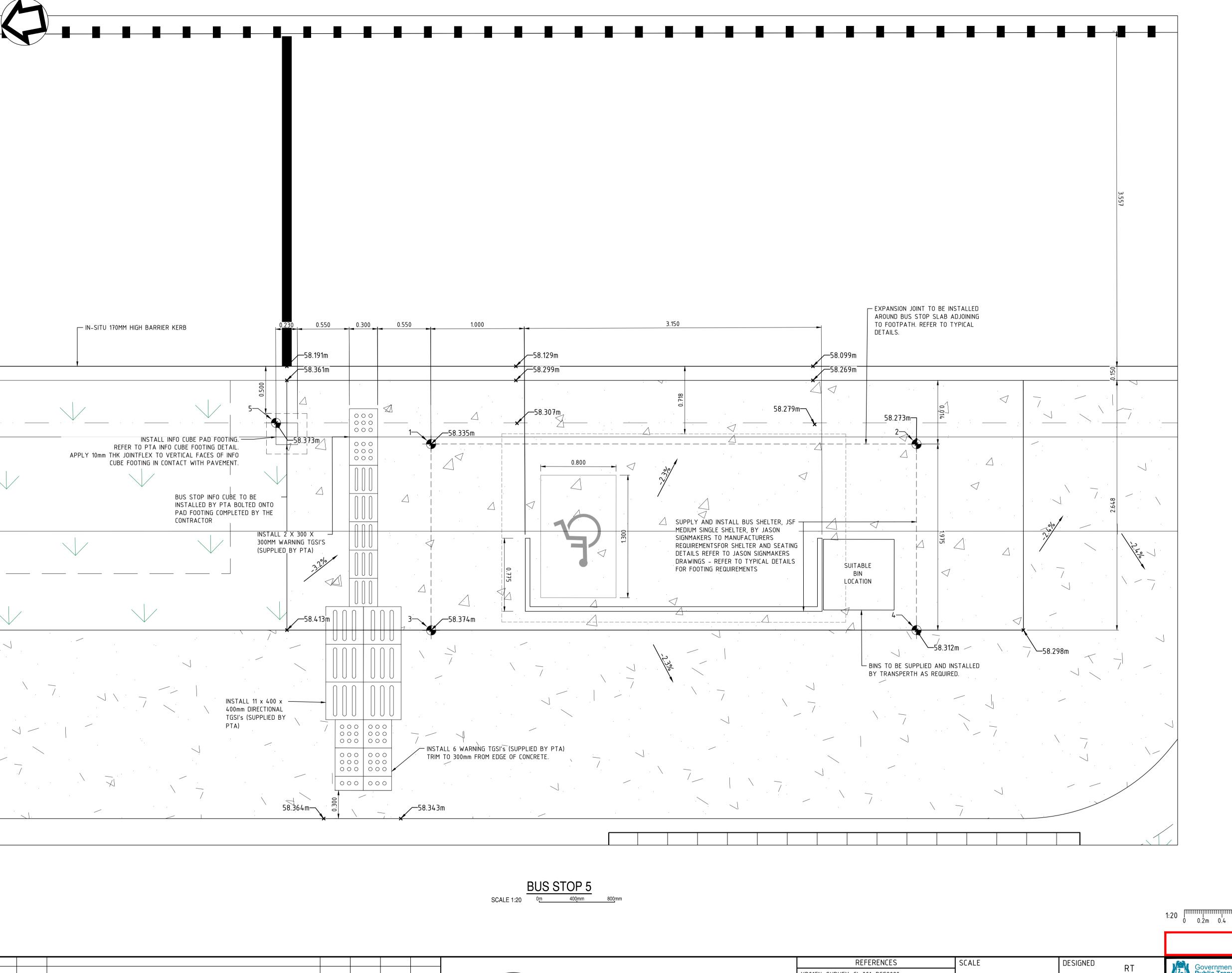
A.1 23/11/22 ISSUED FOR DA

REV DATE

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LEGEND

SETOUT POINT

PROPOSED BUS STOP FOOTINGS EXTENTS

PROPOSED BUS STOP SHELTER CANOPY EXTENTS

LANDSCAPE TREATMENT. PROPOSED MULCH

TACTILE GROUND SURFACE INDICATOR

BUS STOP INFO CUBE



PROPOSED KERBING

NOTES

- 1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN. 2. ALL KERBING ADJACENT TO BUS STOP HARDSTAND IS KASSEL
- HARDSTAND AND BUS STOP POST SETOUT POINTS | Point # | Eastings | Northings 341034.47 68550.93 68549.95 341029.42 341034.85 341029.79

68551.47

341036.05

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ISSUED FOR DA

Government of Western Australia
Public Transport Authority BYFORD RAIL EXTENSION ENABLING WORKS CIVIL WORKS - TEMPORARY BUS INTERCHANGE BUS LAYOUT AND ARRANGEMENT PLAN - SHEET 5

A.1 23/11/22 ISSUED FOR DA YK MBS F0 REV DATE DSN DRN CHK AMENDMENT ORIG SIZE 10 20 30 40 50 This document must not be copied without PTA's written permission, and the contents thereof must not be imparted to a third party nor be used for any unauthorised purpose.



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PTA Drawing No:

11-C-15-0092 | Rev: A.1

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