



YARRABILBA PRICINCT 5 MIBA WONGAWALLAN DRIVE EXTENSION YARRABILBA, QLD 4207

DRAWING REGISTER

DWG. No.	DRAWING TITLE
	CIVIL WORKS
CN.0.01	COVER SHEET
CN.0.02	CONSTRUCTION NOTES
EX.1.01	EXISTING FEATURES PLAN
BE.1.01	BULK EARTHWORKS PLAN
BE.2.01	BULK EARTHWORKS SECTIONS - SHEET 1 OF 2
BE.2.02	BULK EARTHWORKS SECTIONS - SHEET 2 OF 2
ER.1.01	CIVIL WORKS PLAN - SHEET 1 OF 2
ER.1.02	CIVIL WORKS PLAN - SHEET 2 OF 2
ER.3.01	WONGAWALLAN DRIVE LONGITUDINAL SECTION
SW.2.01	STORMWATER DRAINAGE DETAILS - SHEET 1 OF 4
SW.2.02	STORMWATER DRAINAGE DETAILS - SHEET 2 OF 4
SW.2.03	STORMWATER DRAINAGE DETAILS - SHEET 3 OF 4
SW.2.04	STORMWATER DRAINAGE DETAILS - SHEET 4 OF 4
SW.3.01	STORMWATER DRAINAGE LONGITUDINAL SECTIONS
SW.4.01	DRAINAGE CATCHMENT PLAN & CALCULATION TABLES



LOCALITY PLAN
NTS



D	14/02/25	FOR APPROVAL	DL	SS
C	28/01/25	FOR TENDER	DL	SS
B	08/11/24	PRELIMINARY ISSUE	DL	SS
A	07/11/24	PRELIMINARY ISSUE	DL	SS
ISSUE DATE	AMENDMENT		BY APP	

YARRABILBA PRICINCT 5 MIBA
WONGAWALLAN DR EXTENSION
YARRABILBA, QLD 4207

SCALES: AS SHOWN
DESIGN: DL
DRAWN: DL
CHKD: SS
APPRD: SS
DATE: 30/01/2025

CLIENT:

COVER SHEET



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FOR APPROVAL

NOT FOR CONSTRUCTION

9951-1
DRAWING No. CN.0.01
REV D

GENERAL NOTES

PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR IS TO IDENTIFY AND BE SATISFIED OF THE CORRECT LOCATION OF ALL EXISTING SERVICES WHETHER INDICATED OR NOT ON THE PLANS. ANY DAMAGE TO EXISTING SERVICES IS TO BE RECTIFIED AT THE CONTRACTOR'S EXPENSE.

ANY WORK ON EXISTING SERVICES THAT REQUIRE RELOCATION BY AUTHORITIES SHALL BE CARRIED OUT BY THE RELEVANT AUTHORITY BUT WITHIN TERMS OF THE CONTRACT AND SHALL BE CO-ORDINATED BY THE CONTRACTOR.

PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR WILL PROVIDE SCOUR AND EROSION PROTECTION INCLUDING PROVISION OF SEDIMENT TRAPS AND FENCES TO MINIMISE DEPOSITION OF MATERIAL ONTO DOWNSTREAM OF THE PROPERTY AS INDICATED ON THE DRAWINGS.

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER WORKING DRAWINGS, SPECIFICATIONS AND REPORTS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF CONSTRUCTION. ALL DISCREPANCIES AND VARIATIONS SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

ALL LEVELS ARE TO BE TO A.H.D LEVEL DATUM. P.S.M SURVEY ORIGIN IS PERMANENT BENCHMARK NO. PM 59068 RL46.040.

ALL WORK TO CONFORM TO LOGAN CITY COUNCIL AND DTRM STANDARDS AND SPECIFICATIONS UNLESS OTHER WISE SHOWN ON PLANS OR DIRECTED BY THE SUPERINTENDENT.

SETOUT OF CARPARK BAYS AND AISLES BY ARCHITECT'S U.N.O.

ALL 'WORKS AS CONSTRUCTED' INFORMATION SHALL BE SUPPLIED IN ELECTRONIC DATA FORMAT TO THE RELEVANT AUTHORITIES REQUIREMENTS.

DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.

'U.N.O.' STANDS FOR UNLESS NOTED OTHERWISE.

IN CASE OF DOUBT, ASK!

IMPORTANT SAFETY NOTICE

MPN CONSULTING PTY LTD RECOGNISES THE IMPORTANCE OF OCCUPATIONAL HEALTH AND SAFETY. HOWEVER, MPN CONSULTING PTY LTD HAS NOT BEEN ENGAGED TO DEVELOP, CHECK, SUPERVISE OR CONTROL WORKERS OR METHODS OF WORK.

MPN CONSULTING PTY LTD DOES NOT HAVE THE CAPACITY OR AUTHORITY TO CONTROL WORKERS OR METHODS OF WORK.

NOTHING IN THESE DESIGNS SHOULD BE INTERPRETED AS GOING BEYOND THE STRUCTURAL INTEGRITY OF THE SUBJECT MATTER OF THE DESIGNS AND THEY SHOULD NOT BE USED AS AN INDICATOR OF THE APPROPRIATE METHODS OF WORK ON, IN OR AROUND THE SUBJECT MATTER.

CONCERNS ABOUT THE CONDUCT OF WORKERS OR METHODS OF WORK SHOULD BE RAISED WITH THE APPROPRIATE SAFETY OFFICIAL ON SITE.

PEDESTRIAN SURFACES

ALL SURFACES SUBJECT TO PEDESTRIAN TRAFFIC SHALL MEET THE MINIMUM PENDULUM OR RAMP RECOMMENDATIONS CONTAINED IN TABLE 3 OF AUSTRALIAN STANDARD HANDBOOK 1819:1999 - AN INTRODUCTORY GUIDE TO THE SLIP RESISTANCE OF PEDESTRIAN SURFACE MATERIALS. COMPLIANCE WITH THE RECOMMENDATIONS SHALL BE VERIFIED BY TESTING TO EITHER: AS/NZS 4586:2004 - SLIP RESISTANCE CLASSIFICATIONS OF NEW PEDESTRIAN SURFACE MATERIALS, OR AS/NZS 4663:2004 - SLIP RESISTANCE MEASUREMENT OF EXISTING PEDESTRIAN SURFACES AS APPROPRIATE IN BOTH INSTANCES COMPLIANCE SHALL BE DEMONSTRATED BY APPLYING CLAUSE 5.3. MEANS OF DEMONSTRATING COMPLIANCE, OF AS/NZS 4586:2004 - SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS.

IN GENERAL, THE CLASSIFICATION OF A SURFACING MATERIAL OR FINISH SHALL BE MADE ON A WORST CASE BASIS AS DETERMINED BY PENDULUM TESTING USING BOTH THE FOUR S AND TRL RUBBER SLIDER, WHERE ADDITIONAL TEST RESULTS ARE AVAILABLE (OIL -WET RAMP, WET/BAREFOOT RAMP) THESE MAY BE TAKEN INTO CONSIDERATION.

ENVIRONMENTAL CONDITIONS

VEGETATION PROTECTION

TREES LOCATED ALONG THE FOOTPATH SHOULD BE, WHERE POSSIBLE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.

WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHOULD BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES MUST BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.

WHERE POSSIBLE, TREE ROOTS SHOULD BE TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHOULD BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT COUNCIL ARBORIST FOR FURTHER ADVICE.

ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY COUNCIL'S RECOMMENDED TREE SERVICES.

SOIL

TOPSOIL AND SUBSOIL SHOULD BE STOCKPILED SEPARATELY. CARE SHOULD BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

REHABILITATION

PRE-DISTURBANCE SOIL PROFILES AND COMPACTION LEVELS ARE TO BE REINSTATED.

PRE-DISTURBANCE VEGETATION PATTERNS SHOULD BE RESTORED, FOR FURTHER INFORMATION CONTACT COUNCIL ECOLOGICAL ASSESSMENT OFFICER.

CONTRACTOR TO HAVE CONTROLS ON SITE TO MANAGE DUST AT ALL TIMES, WHEN ANY AREAS OF THE SITE ARE EXPOSED.

NOTE: ALL ENVIRONMENT PROTECTION MEASURES SHOULD BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING, COMMENCING.

BULK EARTHWORKS NOTES

1. GENERAL

EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE PROCEDURES SET DOWN IN AS 3798 GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.

FILL BATTERS ARE TO BE OVER FILLED AND COMPACTED TO 1.0m BEYOND FINAL BATTER FACE THEN CUT BACK TO FINAL BATTER.

SOFT SPOTS IN CLAY ARE TO BE DRAINED BY RUBBLE OR AGRICULTURAL DRAINS TO PREVENT 'SUMPS' FORMING.

AT COMPLETION OF CONSTRUCTION THE CONTRACTOR SHALL ARRANGE FOR AN INDEPENDENT LICENSED SURVEYOR TO CARRY OUT A 'WORKS AS CONSTRUCTED' SURVEY AND SUBMIT THE DETAILS SHOWN ON A PLAN TO THE SUPERINTENDENT.

2. SITE PREPARATION

CLEAR THE SITE OF ALL DEBRIS INCLUDING EXISTING BUILDING, RUBBLE AND CONCRETE SLABS. TREES EXCEPTING THOSE TO BE RETAINED, GRASS AND TOP SOIL TO A DEPTH OF 150mm MINIMUM AND ORGANIC MATERIAL SUCH AS TREE ROOTS WHERE REQUIRED, STRIPPED TOP SOIL TO BE STOCKPILED ON SITE FOR REUSE IF REQUIRED OR REMOVED FROM SITE.

PRIOR TO THE PLACEMENT OF ANY FILLING PROOF ROLL THE SITE USING SIX PASSES OF A 10 TONNE MINIMUM STATIC WEIGHT VIBRATORY PAD TYPE ROLLER. SUBGRADE TO BE COMPACTED TO 100% MAXIMUM DRY DENSITY STANDARD COMPACTION TO E1.1 AS1289. MOISTURE CONTENT OF THE SUBGRADE IS TO BE WITHIN THE RANGE OF 2.0% WET TO 2.0% DRY OF STANDARD OPTIMUM MOISTURE CONTENT.

SOFT SPOTS AND / OR LOOSE AREAS WHICH DO NOT IMPROVE WITH COMPACTION ARE TO BE EXCAVATED TO A MINIMUM DEPTH OF 500mm AND REPLACED. THESE AREAS ARE TO BE INSPECTED BY A GEOTECHNICAL ENGINEER TO ASSESS WHETHER FURTHER EXCAVATION IS REQUIRED OR IF OTHER MEASURES (SUCH AS CONSTRUCTION OF A BRIDGING LAYER) CAN BE ADOPTED. SELECT REPLACEMENT MATERIAL TO BE (MINIMUM CBR15) PLACED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS, COMPACTED TO THE COMPACTION REQUIREMENTS.

3. FILL MATERIAL

IMPORTED FILL MATERIAL SHALL BE APPROVED GRANULAR MATERIAL FREE OF VEGETABLE MATTER AND CONFORMING TO THE FOLLOWING:-

AS SIEVE	% PASSING
75mm	100
4.75mm	30 - 100
0.075mm	3 - 30
LIQUID LIMIT	45% MAX.
PLASTICITY INDEX	15% MAX.
CBR	10% MIN.
LINEAR SHRINKAGE	8% MAX.
TEST CERTIFICATES ON THE TEST FILL MATERIAL SHALL BE SUPPLIED TO THE SUPERINTENDENT FOR APPROVAL PRIOR TO THE USE OF THE FILL MATERIAL.	

ALL FILL MATERIAL, INCLUDING ROAD PAVEMENT U.N.O. IS TO BE PLACED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS AND COMPACTED TO THE FOLLOWING DENSITIES:

BUILDING AREA	100%	MAXIMUM DRY DENSITY STANDARD COMPACTION
UNDER ROADS	95%	MAXIMUM DRY DENSITY STANDARD COMPACTION
A) >500mm BELOW SUBGRADE		
B) <300MM BELOW SUBGRADE	98%	MAXIMUM DRY DENSITY STANDARD COMPACTION

REFER TO GEOTECHNICAL REPORT AND SPECIFIC CASE FILL SHALL BE COMPACTED AND MAINTAINED AT MOISTURE CONTENTS AT PLACEMENT WITHIN THE RANGE OF 2.0% WET TO 2.0% DRY OF STANDARD OPTIMUM MOISTURE CONTENT U.N.O. (REFER GEOTECHNICAL REPORT AND SPECIFIC CASE).

4. GEOTECHNICAL INSPECTIONS AND TEST CERTIFICATES

COMPACTION TESTS, TO BE CARRIED OUT IN ACCORDANCE WITH AS 3798 (REFER TO GEOTECHNICAL REPORT AND SPECIFIC CASE).

'LEVEL 1' GEOTECHNICAL SUPERVISION AS DEFINED IN SECTION 8 OF AS 3798 GUIDELINES OF EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS, SHALL BE PROVIDED UNDER ALL BUILDING AREAS AND ROADS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ORGANISING THE COMPACTION TESTS AND APPOINTING THE GEOTECHNICAL SUPERVISION UTILISING THE ENGINEER WHO COMPLETED THE SITE INVESTIGATION IN ACCORDANCE WITH AS 3798.

THE CONTRACTOR SHALL PROVIDE A LEVEL 1 CERTIFICATION REPORT CERTIFYING THAT ALL THE WORKS HAVE BEEN UNDERTAKEN IN ACCORDANCE WITH AS3798 AND ANY RELEVANT AUTHORITY APPROVAL CONDITIONS. THE CONTRACTOR SHALL PROVIDE A LEVEL 1 FILL CERTIFICATE FOR EACH LOT THAT HAS HAD FILL PLACED AS PART OF THE WORKS. WORKS COMPLETED WITHIN QUEENSLAND SHALL HAVE AN RPEQ CERTIFICATION ON THE LEVEL 1 REPORT. FOR OTHER STATES AND TERRITORIES A LEVEL 1 REPORT CERTIFIED BY A CPEng OR APPROVED STATE/TERRITORY EQUIVALENT SHALL BE PROVIDED.

5. SERVICES

PRIOR TO THE COMMENCEMENT OF WORKS THE CONTRACTOR IS TO IDENTIFY AND BE SATISFIED OF THE CORRECT LOCATIONS OF ALL EXISTING SERVICES WHETHER INDICATED OR NOT ON THE PLANS. ANY DAMAGE TO EXISTING SERVICES IS TO BE RECTIFIED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SET OUT OF ALL SERVICES & AUXILIARY ITEMS WITHIN THEIR CORRECT ALLOCATION AREA.

ROADWORKS NOTES

FILL AND SUB GRADE SHALL BE COMPACTED AS DETAILED IN EARTHWORKS NOTES.

THE CONTRACTOR IS TO INITIALLY EXCAVATE THE PAVEMENT TO LEVEL THEN ARRANGE A DAY SLOPED CBR TESTS ON THE SUBGRADE AND NOTIFY THE SUPERINTENDENT TO DETERMINE FINAL PAVEMENT THICKNESS AND ARRANGE PAVEMENT APPROVAL FROM THE RELEVANT AUTHORITY.

ALL SUB GRADE AREA SHALL BE PROOF ROLLED AND COMPACTED TO MAXIMUM DRY DENSITY RATIO OF 100% STANDARD COMPACTION (AS 1289) WITH MOISTURE CONTENT WITHIN THE RANGE OF 2.0% WET TO 2.0% DRY OF STANDARD OPTIMUM MOISTURE CONTENT. ANY SOFT SPOTS ENCOUNTERED ARE TO BE EXCAVATED AND REPLACED WITH SELECT MATERIAL (MINIMUM CBR 15) AS DEFINED IN EARTHWORKS NOTES.

ALL FILL MATERIAL EXCLUDING ROAD PAVEMENT IS TO BE PLACED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS AND COMPACTED TO DENSITIES OUTLINED IN THE EARTHWORKS NOTES.

ALL ROAD PAVEMENT MATERIAL IS TO BE PLACED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS AND COMPACTED TO 95% MODIFIED MAXIMUM DRY DENSITY.

COMPACTION TEST RESULTS AND TEST LOCATIONS FOR BASE COURSE TESTING SHALL BE SUBMITTED TO AND APPROVED BY THE SUPERINTENDENT PRIOR TO PLACING SURFACE. SHOULD ANY TEST FAIL, THE CONTRACTOR SHALL REWORK THE AREA AS REQUIRED OR AS DIRECTED TO OBTAIN THE SPECIFIED COMPACTION. BASE COURSE MATERIAL SHALL NOT BE PLACED UNTIL THE KERBS HAVE ACHIEVED 10MPA STRENGTH.

ALL PAVEMENT GRAVELS & TRENCHES SHALL BE BACK FILLED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS TO NOT LESS THAN:

LOCATION	DENSITY	FREQUENCY
UNDER ROADS	95% SMDO	1 TEST PER 2 LAYERS PER 40m WITH AT LEAST 1 TEST 'N 5 BEING ADJACENT TO A MANHOLE OR GULLY
A) >500mm BELOW SUBGRADE	98% SMDO	
B) <300MM BELOW SUBGRADE	98% SMDO	
C) PAVEMENT	95% MMDO	
ELSEWHERE	95% SMDO	1 TEST PER LAYER PER 200m

SMDO - STANDARD MAXIMUM DRY DENSITY

MMDO - MODIFIED MAXIMUM DRY DENSITY

(AS PER AS. 1289)

PAVEMENT MATERIALS SHALL BE COMPACTED AND MAINTAINED AT MOISTURE CONTENTS AT PLACEMENT WITHIN THE RANGE OF 2% WET TO 2% DRY OF STANDARD OPTIMUM MOISTURE CONTENT U.N.O

TRENCH BACKFILL TESTING SHALL BE CARRIED OUT ON EACH ALTERNATE COMPACTED LAYER AT MAXIMUM 50M CENTRES AND NO MORE THAN 3M FROM MANHOLE STRUCTURE.

PAVEMENT MATERIAL CERTIFICATES AND GRADINGS ARE TO BE PROVIDED TO THE SUPERINTENDENT FOR APPROVAL PRIOR TO CONSTRUCTION.

PAVEMENT MATERIAL SHALL EXTEND 150MM BEHIND KERB AND KERB AND CHANNEL.

WHERE NEW PAVEMENT JOINS EXISTING PAVEMENT THE EXISTING PAVEMENT IS TO BE SAW CUT AS INDICATED TO PROVIDE A NEAT STRAIGHT LINE.

ALL FINISHED SURFACE LEVELS ARE SHOWN AT THE LIP OF THE KERB AND CHANNEL OR THE NOMINAL FACE OF THE KERB UNLESS NOTED OTHER WISE.

WHERE COUNCIL STANDARD DOES NOT NOMINATE CONSTRUCTION METHODS OF CONCRETE, KERB SECTIONS TOOLED GROOVE JOINTS ARE TO BE PLACED AT 3M MAXIMUM CENTRES. PLACE ADDITIONAL JOINTS TO KERBS, MEDIANS, INVERTS IN THE SAME LOCATION AS THE JOINTS IN THE CONCRETE PAVEMENTS WHERE APPLICABLE.

SUBSOIL DRAINS SHALL BE MIN Ø100 CORRUGATED POLYETHYLENE PIPE TO AS 261 AND CONSTRUCTED IN ACCORDANCE WITH IPWEAQ STANDARD DRAWING RS-142.

SUBSOIL DRAINS ARE TO BE USED IN ALL AREAS EXCEPT WHERE SUBSOIL DRAINS ARE SHOWN BENEATH TRAFFICABLE AREAS THE PIPES ARE TO BE WATER TIGHT UPVC CLASS PN12 OR RCP CLASS 2.

SUBSOIL DRAIN CLEAN OUTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH IPWEAQ STANDARD DRAWING RS-142 AND PLACED AT 80M MAXIMUM CENTRES.

ALL SAFETY SIGNS AND BARRICADES SHALL BE ERECTED TO COMPLY WITH TMR STANDARDS AND AS 1742.

WHERE LANDSCAPING IS REMOVED IN NEW PAVEMENT AREAS EXCAVATE 500MM MINIMUM BELOW UNDERSIDE OF PAVEMENT TO ROAD BED AND CONSTRUCTED IN ACCORDANCE WITH IPWEAQ STANDARD DRAWING RS-142. MATERIAL FROM PAVEMENT AREA COMPACT AREA TO A MAXIMUM DRY DENSITY OF 100% STANDARD COMPACTION. FOLLOWING COMPACTION PLACE SELECT FILL MATERIAL (MINIMUM CBR 15) IN LAYERS NOT EXCEEDING 150MM COMPACTED THICKNESS TO THE UNDER SIDE OF NEW PAVEMENT MATERIAL TO M.D.D. RATIO OF 100% STANDARD COMPACTION. (AS 1289).

WHERE NEW LANDSCAPING IS TO BE ESTABLISHED IN EXISTING PAVEMENT AREA, REMOVE A.C. SURFACE, CONCRETE KERBS AND ROAD BASE TO A MINIMUM DEPTH OF 300MM. INSTALL SUBSOIL DRAINAGE TO THE PERIMETER OF THE NEW LANDSCAPE AREA AT A DEPTH OF 300MM BELOW SUBGRADE LEVEL. FILL WITH TOP SOIL TO A DEPTH OF 100MM BELOW TOP OF KERB. REFER TO ARCHITECTS AND / OR LANDSCAPE CONSULTANTS DETAILS FOR FINAL PLANTING.

THE CONTRACTOR SHALL ARRANGE FOR AN INDEPENDENT LICENSED SURVEYOR TO CARRY OUT 'WORKS AS CONSTRUCTED' SURVEY AND SUBMIT DETAILS SHOWN ON A PLAN TO THE SUPERINTENDENT AT COMPLETION OF CONSTRUCTION. 'WORKS AS CONSTRUCTED' SURVEY IS TO SHOW BUT NOT BE LIMITED TO LEVEL AND LOCATION OF NEW KERB, KERB AND CHANNEL, CONCRETE INVERT AND KERB RAMP AND ANY DETAILS RELATED TO FINAL ROAD WORKS.

STORMWATER DRAINAGE NOTES

ALL STORMWATER DRAINAGE PIPES Ø225 OR SMALLER SHALL BE CLASS 2 RCP OR CLASS DWV UPVC UNLESS APPROVED OTHERWISE.

ALL STORM WATER PIPES Ø300 OR GREATER SHALL BE CLASS 2 RCP UNLESS APPROVED OTHERWISE.

FRC PIPES SHALL NOT BE USED.

ALL STORMWATER PIPES SHALL BE RUBBER RING JOINTED (RRJ).

ALL STORMWATER BEDDING SHALL BE IN ACCORDANCE WITH IPWEAQ STANDARD DRAWING DS-030 AND DS-031.

5.0M SUBSOIL LEAD IN TO PITS AND MANHOLES IS REQUIRED IN ALL STORMWATER TRENCHES.

FILL BETWEEN MULTI CELL BOX CULVERTS TO BE DRY LEAN MIX.

BITUTHENE TAPE TO BE USED ON BOX CULVERT JOINTS.

ALL DOWN PIPE CONNECTIONS SHALL BE PVC PIPE, RUBBER RING JOINTED CLASS DWV

DE-WATERING WHERE REQUIRED TO BE AT THE CONTRACTORS COST.

ALL CONNECTIONS FROM DOWN PIPES TO MAIN DRAIN LINES SHALL BE MADE WITH MANUFACTURED FITTINGS UNLESS NOTED OTHERWISE.

INVERT LEVELS SHOWN ON PLAN ARE AT PIPE / STRUCTURE JUNCTION.

PIPE LENGTHS SHOWN ON PLAN / LONG SECTION ARE TO CENTRE OF STRUCTURE.

MINIMUM COVER TO STORMWATER PIPES TO BE AS FOLLOWS:
PIPES IN ROADWAYS - 600MM COVER
PIPES IN LANDSCAPE AREAS - 450MM COVER U.N.O.

ALL STORMWATER MANHOLES SHALL BE IN ACCORDANCE WITH IPWEAQ STANDARD DRAWINGS DS-019 TO DS-021.

ALL STORMWATER TO HAVE A HEAVY DUTY TRAFFICABLE LID U.N.O.

ALL STORMWATER GULLY PITS SHALL BE IN ACCORDANCE WITH IPWEAQ STANDARD DRAWING DS-032.

ALL STORMWATER FIELD INLETS SHALL BE IN ACCORDANCE WITH IPWEAQ STANDARD DRAWING DS-050.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING GULLY PITS IN RELATION TO THE NOMINAL FACE OF KERB AND KERB AND CHANNEL.

THE CONTRACTOR SHALL VERIFY THE INVERT LEVEL AT THE CONNECTION WITH EXISTING STORMWATER PIPES PRIOR TO LAYING PIPES.

ALL TRENCHES SHALL BE BACK FILLED UNDER THE ROAD IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS NOT LESS THAN 100% MAXIMUM DRY DENSITY STANDARD COMPACTION TEST (AS 1289).

TRENCH BACKFILL TESTING SHALL BE CARRIED OUT ON EACH ALTERNATE COMPACTED LAYER AT A MAXIMUM 50M CENTRES AND NO MORE THAN 3M FROM MANHOLE STRUCTURE.

THE CONTRACTOR IS TO ENSURE THE METHOD OF COMPACTION OF THE BACKFILL IS SUITABLE FOR THE CLASS OF PIPE INDICATED ON THE DRAWINGS.

IF NECESSARY THE CONTRACTOR IS TO ADJUST HIS COMPACTION METHODS TO SUIT THE PIPE CLASS.

WHERE THE TRENCH IS EXCAVATED IN WATERLOGGED GROUND OR WHERE THE FOUNDATION IS CONSIDERED UNSUITABLE IN THE OPINION OF THE SUPERINTENDENT, A LAYER OF CRUSHED ROCK, 40MM TO 20MM SIZE OR OTHER MATERIALS APPROVED BY THE INSPECTING ENGINEER SHALL BE LAID IN A 500MM THICK LAYER BELOW THE CULVERT BASE OR PIPE. THESE AREAS ARE

TO BE INSPECTED BY THE GEOTECHNICAL ENGINEER TO ASSESS WHETHER FURTHER EXCAVATION IS REQUIRED OR OTHER MEASURES CAN BE ADOPTED.

THE CONTRACTOR SHALL ARRANGE FOR AN INDEPENDENT LICENSED SURVEYOR TO CARRY OUT A 'WORKS AS CONSTRUCTED' SURVEY TO SUBMIT DETAILS SHOWN ON PLAN TO THE SUPERINTENDENT AT COMPLETION OF CONSTRUCTION. 'WORKS AS CONSTRUCTED' SURVEY IS TO SHOW BUT NOT BE LIMITED TO LEVEL AND LOCATION OF ALL DRAINAGE STRUCTURES, PIPES SIZES AND INVERT LEVELS.

PRIOR TO WORKS GOING ON MAINTENANCE OR A WORKS COMPLETION, CERTIFICATE IS PROVIDED. THE CONTRACTOR SHALL ARRANGE FOR A CCTV TO BE CARRIED OUT.

MAINTENANCE NOTES - DEFECTS LIABILITY

SUCH MAINTENANCE SHALL BE CARRIED OUT IN ACCORDANCE WITH THE PROVISIONS OF THE GENERAL CONDITIONS OF CONTRACT WITH RESPECT TO MAKING GOOD DEFECTS AND OTHER FAULTS DUE TO FAULTY REPAIR AND/OR WORKMANSHIP AND SHALL INCLUDE CLEANING UP AND REPAIR DUE TO STORM DAMAGE.

THE DEFECTS LIABILITY PERIOD SHALL BE FOR TWELVE MONTHS FROM THE DATE OF PRACTICAL COMPLETION.

GLOBAL STABILITY REPORT

GLOBAL STABILITY REPORT CARRIED OUT BY PACIFIC GEOTECH, REFERENCE PG-5335-B, 2025-02-03, GSR VER 1. THIS REPORT MUST BE READ IN ITS ENTIRETY PRIOR TO CONSTRUCTION BEING UNDERTAKEN.

FOR APPROVAL

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DE/2025/256
Date: 26/06/2025



CONSULTANT: MPN CONSULTING PTY LTD
CONTACT: SHAUN SWENSON (RPEQ 16906)
TELEPHONE: (07) 3335 4305

Swenson DATE: 14.02.25

ISSUE	DATE	AMENDMENT	BY	APP
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YARRABILLA, QLD 4207

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CLIENT:

CONSTRUCTION NOTES



ABN: 39 092 191 790

mpn JOB

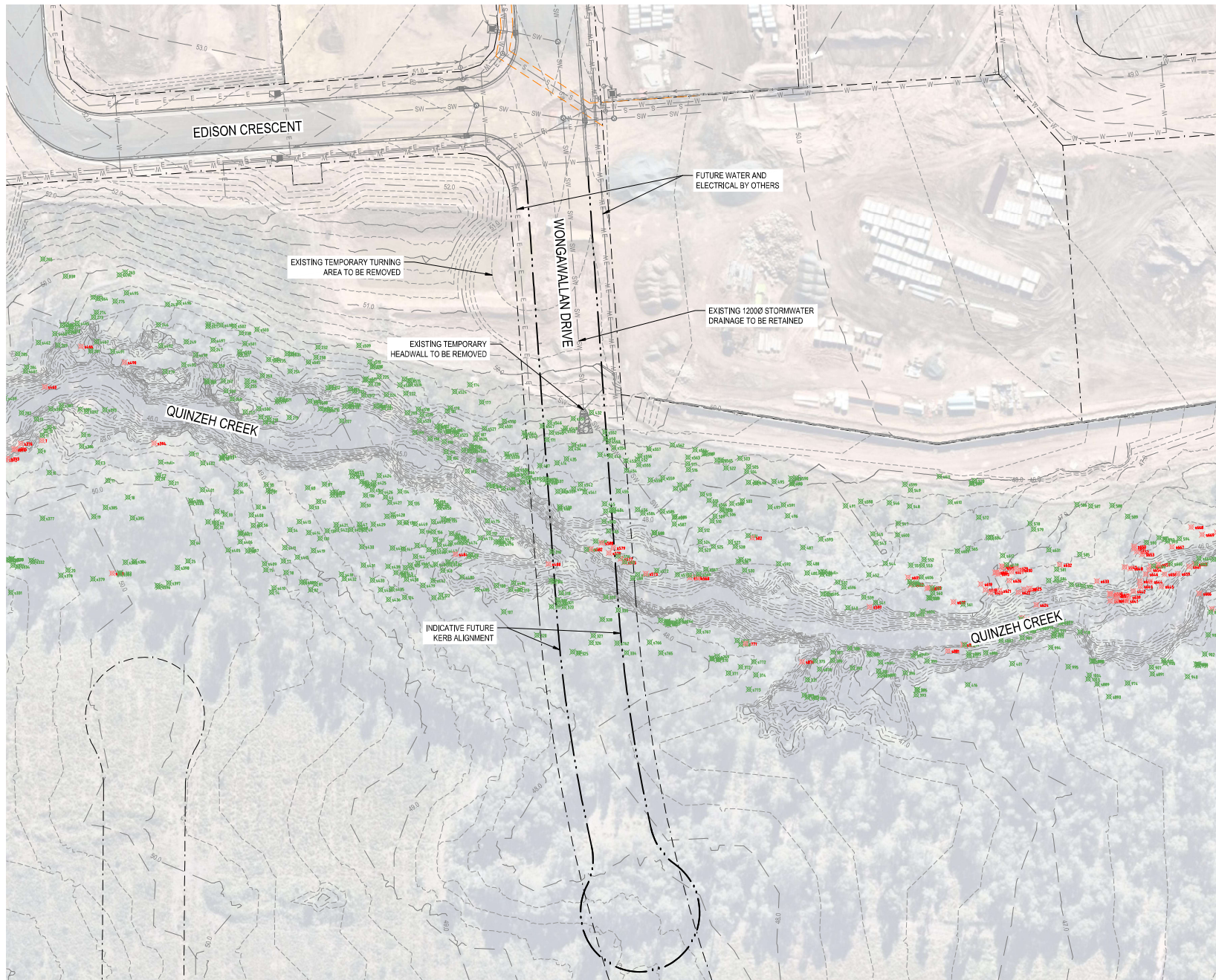
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CN.0.02

NOT FOR CONSTRUCTION



EXISTING	LEGEND	PROPOSED
---	PROPERTY BOUNDARY	---
---	EASEMENT	---
---	MAJOR CONTOUR	---
---	MINOR CONTOUR	---
---	CONCRETE	---
---	EDGE OF BITUMEN	---
---	BARRIER KERB	---
---	KERB AND CHANNEL	---
---	FLUSH KERB	---
---	GUARD RAIL	---
---	STORM WATER MAIN	---
---	STORM WATER MANHOLE	---
---	STORM WATER GULLY PIT	---
---	WATER MAIN	---
---	RECYCLED WATER MAIN	---
---	SEWER MAIN	---
---	SEWER MANHOLE	---
---	RISING MAIN	---
---	GAS MAIN	---
---	TELSTRA CABLE	---
---	OPTUS CABLE	---
---	UG/GROUND ELECTRICITY	---
---	OVERHEAD ELECTRICITY	---
---	ELECTRICITY POLE	---
---	FENCE	---
---	EXISTING EXOTIC TREE	---
---	EXISTING NATIVE TREE	---

!!! CAUTION !!!
CONTRACTOR TO CONFIRM THE DEPTH AND
LOCATION OF ALL SERVICES PRIOR TO COMMENCING
ANY CONSTRUCTION WORKS OR ORDERING ANY
MATERIALS.

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2025/1596
Date: 26/06/2025



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SCALE 1:500 (A1) 1:1000 (A3)

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Shaun Swenson DATE: 14.02.25

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EXISTING FEATURES PLAN



ABN: 39 062 191 799
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E: shawn@mpn.com.au

9951-1

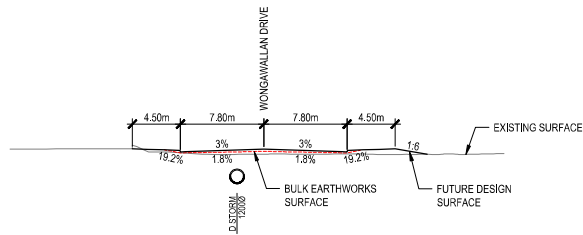
EX.1.01

REV
D

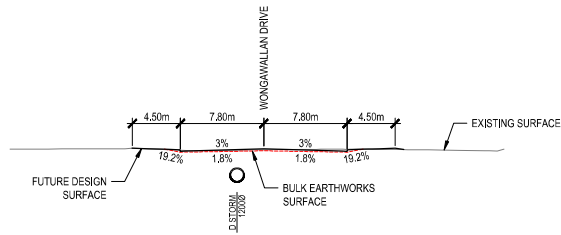
NOT FOR CONSTRUCTION

FOR APPROVAL

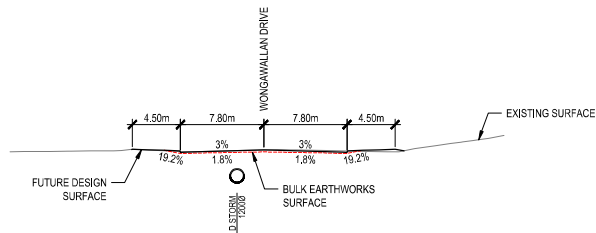
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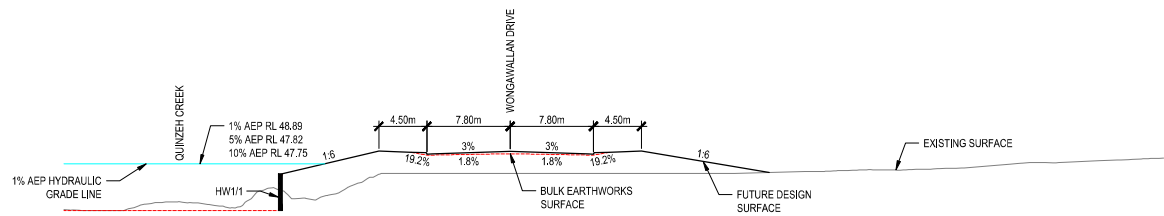
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CH. 920



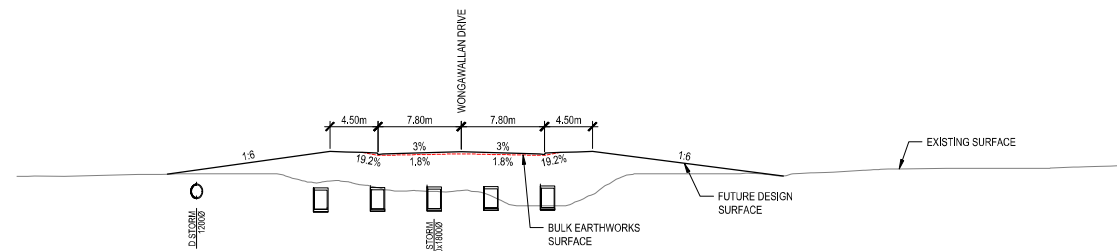
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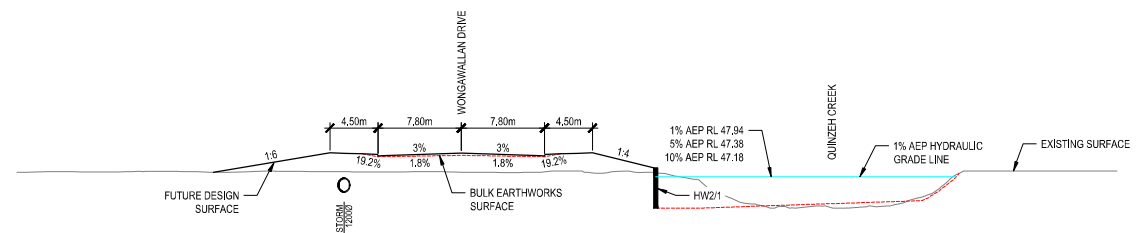
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CH 880



DATUM = 36.0
CH. 980



DATUM = 36.0
CH. 960

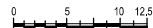


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CH. 940

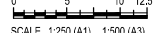
PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2025/1596
Date: 26/06/2025



VERT.



HORIZ.



CONSULTANT: MPN CONSULTING PTY LTD
CONTACT: SHAUN SWENSON (RPEQ 16906)
TELEPHONE: (07) 3335 4305
Shaun Swenson DATE: 14.02.25

D	08/04/25	FOR APPROVAL	DL SS
C	14/02/25	FOR APPROVAL	DL SS
B	28/01/25	FOR TENDER	DL SS
A	28/01/25	FOR INFORMATION	DL SS
ISSUE	DATE	AMENDMENT	BY

**YARRABILBA PRECINCT 5 MIBA
WONGAWALLAN DR EXTENSION**
YARRABILBA, QLD 4207

SCALES: AS SHOWN
DESIGN: DL
DRAWN: DL
CHKD: SS
APPRD: SS
DATE: 30/01/2025

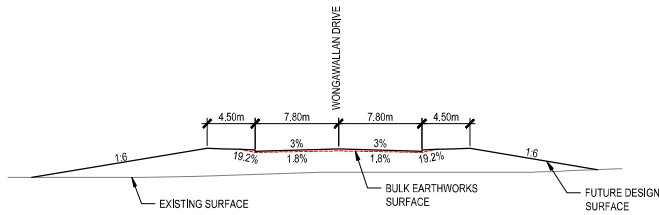
CLIENT: *Yarrabilba Precinct 5 MIBA*
BULK EARTHWORKS SECTIONS
SHEET 1 OF 2

MPN CONSULTING
ABN: 29 062 191 799
P.O. Box 7 3335 4305
E: shaun@mpn.com.au
Level 4, Building 3,
Kings Row Office Park,
42 McDougall Street, Mfrs. QLD 4207
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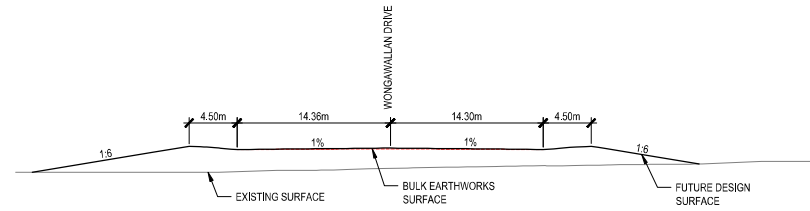
mpn JOB
9951-1
DRAWING No.
BE.2.01
REV
D

NOT FOR CONSTRUCTION

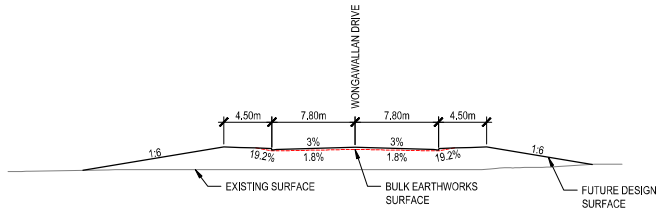
FOR APPROVAL



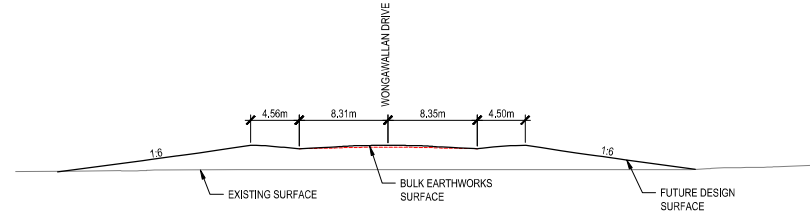
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CH. 1020



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CH. 1060

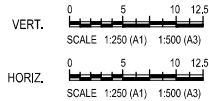


DATUM = 36.0
CH. 1000



DATUM = 36.0
CH. 1040

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2025/1596
Date: 26/06/2025



CONSULTANT: MPN CONSULTING PTY LTD
CONTACT: SHAUN SWENSON (RPEQ 16906)
TELEPHONE: (07) 3335 4305
DATE: 14.02.25

ISSUE	DATE	AMENDMENT	BY	APP
D	08.04.25	FOR APPROVAL	DL	SS
C	14.02.25	FOR APPROVAL	DL	SS
B	28.01.25	FOR TENDER	DL	SS
A	28.01.25	FOR INFORMATION	DL	SS

YARRABILBA PRECINCT 5 MIBA
WONGAWALLAN DR EXTENSION
YARRABILBA, QLD 4207

SCALES:	AS SHOWN
DESIGN:	DL
DRAWN:	DL
CHECK:	SS
APPROVED:	SS
DATE:	30.01.2025

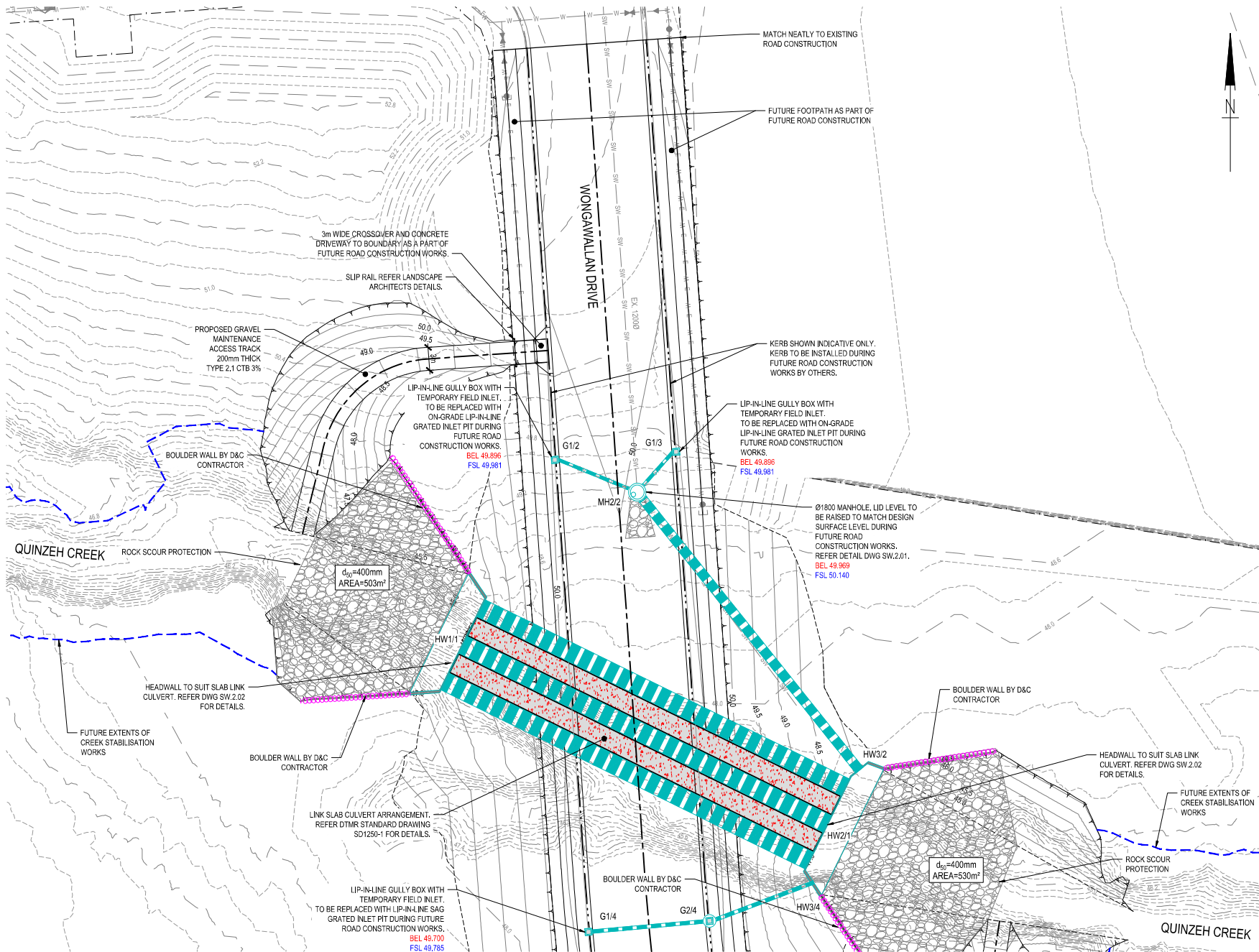
CLIENT: [Yarrabilba Precinct 5 MIBA](#)
BULK EARTHWORKS SECTIONS
SHEET 2 OF 2

MPN CONSULTING
ABN: 29 062 191 799
P.O. Box 13335 4355
St. Lawrence
Level 4, Building 3,
Kings Row Office Park,
42 McDougall Street, Murrumbidgee, QLD 4355
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9951-1
DRAWING No. BE.2.02
REV D

FOR APPROVAL

NOT FOR CONSTRUCTION



LEGEND	
EXISTING	PROPOSED
PROPERTY BOUNDARY	PROPERTY BOUNDARY
CONTOUR	CONTOUR
BUILDING	BUILDING
CONCRETE	CONCRETE
EDGE OF BITUMEN	EDGE OF BITUMEN
KERB	KERB
KERB AND CHANNEL	KERB AND CHANNEL
FLUSH KERB	FLUSH KERB
KERB RAMP	KERB RAMP
BOLLARD	BOLLARD
STORM WATER MAIN	STORM WATER MAIN
ROOFWATER	ROOFWATER
WATER MAIN	WATER MAIN
SEWER MAIN	SEWER MAIN
RISING MAIN	RISING MAIN
GAS MAIN	GAS MAIN
TELECOMMUNICATIONS	TELECOMMUNICATIONS
OPTIC FIBRE	OPTIC FIBRE
U/G ELECTRICITY	U/G ELECTRICITY
O/H ELECTRICITY	O/H ELECTRICITY
FENCE	FENCE
RETAINING WALL	RETAINING WALL
BOULDER WALL	BOULDER WALL
TOP OF BATTER	TOP OF BATTER
FACE OF BATTER	FACE OF BATTER
TOE OF BATTER	TOE OF BATTER
SWALE DRAIN	SWALE DRAIN
LINE OF SAW CUT	LINE OF SAW CUT
FINISHED SURFACE LEVEL	FINISHED SURFACE LEVEL
STORM WATER [STRUCTURE NO. / LINE NO.]	STORM WATER [STRUCTURE NO. / LINE NO.]

- NOTES:**
1. ALL STORMWATER GULLY PITS SHALL BE IN ACCORDANCE WITH IPWEAQ STANDARD DRAWING DS-063 U.N.O.
 2. ALL STORMWATER FIELD INLETS SHALL BE IN ACCORDANCE WITH IPWEAQ STANDARD DRAWING DS-050 U.N.O.
 3. ALL STORMWATER MANHOLES SHALL BE IN ACCORDANCE WITH IPWEAQ STANDARD DRAWINGS DS-019 THROUGH DS-021 U.N.O.
 4. CONTRACTOR TO ENSURE ALL RETAINING WALL AGS DRAINS TO BE CONNECTED TO THE CLOSEST STORMWATER PIT.
 5. ALL DOCUMENTED STORMWATER PIPES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ONLY. CONTRACTOR TO PROTECT STORMWATER INFRASTRUCTURE FROM CONSTRUCTION LOADS.
 6. CONTRACTOR TO CONFIRM EXISTING SERVICE INFRASTRUCTURE LEVEL AND LOCATION PRIOR TO CONSTRUCTION.
 7. CONTRACTOR TO CONFIRM THE LEVEL AND LOCATION OF ALL CONNECTIONS PRIOR TO LAYING ANY UPSTREAM STORMWATER PIPES.
 8. ALL NEW BATTERS TO HAVE SURFACE TREATMENT INSTALLED TO LANDSCAPE ARCHITECTS DETAILS.
 9. ALL EXISTING SERVICES TO BE EXTENDED AS A PART OF FUTURE ROAD CONSTRUCTION WORKS.

NOTE:

REFER TO GLOBAL STABILITY REPORT BY PACIFIC GEOTECH, REFERENCE PG-4335-B, 2025-02-03, GSR VER 1 FOR ROAD EMBANKMENT RECOMMENDATION.

NOTE:

A RISK ASSESSMENT WILL BE UNDERTAKEN AS PART OF THE FUTURE ROAD DESIGN TO DETERMINE IF ROAD BARRIER SYSTEMS ARE REQUIRED.

PLANS AND DOCUMENTS referred to in the **FOA DEVELOPMENT APPROVAL**

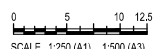
Approval no: DEV2025/1596

Date: 26/06/2025

FOR APPROVAL

!!! CAUTION !!!

CONTRACTOR TO CONFIRM THE DEPTH AND LOCATION OF ALL SERVICES PRIOR TO COMMENCING ANY CONSTRUCTION WORKS OR ORDERING ANY MATERIALS.



CONSULTANT: MPV CONSULTING PTY LTD
CONTACT: SHAUN SWENSON (RPEQ 16906)
TELEPHONE: (07) 3335 4305

Shaun Swenson DATE: 14.02.25

ISSUE	DATE	AMENDMENT	BY	APP
E	22/02/25	FOR APPROVAL	DL	SS
D	14/02/25	FOR APPROVAL	DL	SS
C	28/01/25	FOR TENDER	DL	SS
B	08/11/24	PRELIMINARY ISSUE	DL	SS
A	07/11/24	PRELIMINARY ISSUE	DL	SS

YARRABILBA PRECINCT 5 MIBA WONGAWALLAN DR EXTENSION

YARRABILBA, QLD 4207

SCALES: AS SHOWN

DESIGN: DL

DRAWN: DL

CHKD: DL

APPRO: SS

DATE: 30/01/2025

CUSTOMER: **CIVIL WORKS PLAN**

SHEET 1 OF 2

MPV CONSULTING

10/11/2025

Level 4, Building 3,
Kings Row Office Park,
42 McDougall Street, MIBA, QLD 4207

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9951-1	REV
ER.1.01	E

NOT FOR CONSTRUCTION

REFER DWG ER.1.01 FOR CONTINUATION

LIP-IN-LINE GULLY BOX WITH
TEMPORARY FIELD INLET.
TO BE REPLACED WITH LIP-IN-LINE SAG
GRADED INLET PIT DURING FUTURE
ROAD CONSTRUCTION WORKS.
BEL 49.700
FSL 49.785

3m WIDE CROSSOVER AND CONCRETE
DRIVEWAY TO BOUNDARY AS A PART OF
FUTURE ROAD CONSTRUCTION WORKS.

$d_{50}=400\text{mm}$
AREA=530m²

BOULDER WALL BY D&C
CONTRACTOR

QUINZEH CREEK

PROPOSED GRAVEL
MAINTENANCE
ACCESS TRACK
200mm THICK
TYPE 2.1 CTB 3%

FUTURE EXTENTS OF
CREEK STABILISATION
WORKS

10500 MANHOLE TO SUIT FUTURE LIP-IN-LINE
GULLY PIT WITH TEMPORARY FIELD INLET.
TO BE REPLACED WITH LIP-IN-LINE SAG
GRADED INLET PIT DURING FUTURE ROAD
CONSTRUCTION WORKS.
BEL 49.700
FSL 49.785

SLIP RAIL REFER LANDSCAPE
ARCHITECTS DETAILS.

FUTURE FOOTPATH AS PART OF
FUTURE ROAD CONSTRUCTION

KERB SHOWN INDICATIVE ONLY.
KERB TO BE INSTALLED DURING
FUTURE ROAD CONSTRUCTION
WORKS BY OTHERS.

CONSTRUCT TEMPORARY
TURNAROUND.

WONGAWALLAN DRIVE

EXISTING	LEGEND	PROPOSED
---	PROPERTY BOUNDARY	---
---	EASEMENT BOUNDARY	---
---	CONTOUR	---
---	BUILDING	---
---	CONCRETE	---
---	EDGE OF BITUMEN	---
---	KERB	---
---	KERB AND CHANNEL	---
---	FLUSH KERB	---
---	KERB RAMP	---
---	BOLLARD	---
---	STORM WATER MAIN	---
---	ROOFWATER	---
---	WATER MAIN	---
---	SEWER MAIN	---
---	RISING MAIN	---
---	GAS MAIN	---
---	TELECOMMUNICATIONS	---
---	OPTIC FIBRE	---
---	U/G ELECTRICITY	---
---	O/H ELECTRICITY	---
---	FENCE	---
---	RETAINING WALL	---
---	BOULDER WALL	---
---	TOP OF BATTER	---
---	FACE OF BATTER	---
---	TOE OF BATTER	---
---	SWALE DRAIN	---
---	LINE OF SAW CUT	---
---	SUBSOIL DRAIN	---
---	FINISHED SURFACE LEVEL	---
---	STORM WATER [STRUCTURE NO. / LINE NO.]	---

NOTES:

1. ALL STORMWATER GULLY PITS SHALL BE IN ACCORDANCE WITH IPWEAQ STANDARD DRAWING DS-063 U.N.O.
2. ALL STORMWATER FIELD INLETS SHALL BE IN ACCORDANCE WITH IPWEAQ STANDARD DRAWING DS-050 U.N.O.
3. ALL STORMWATER MANHOLES SHALL BE IN ACCORDANCE WITH IPWEAQ STANDARD DRAWINGS DS-019 THROUGH DS-021 U.N.O.
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6. CONTRACTOR TO CONFIRM EXISTING SERVICE INFRASTRUCTURE LEVEL AND LOCATION PRIOR TO CONSTRUCTION.
7. CONTRACTOR TO CONFIRM THE LEVEL AND LOCATION OF ALL CONNECTIONS PRIOR TO LAYING ANY UPSTREAM STORMWATER PIPES.
8. ALL NEW BATTERS TO HAVE SURFACE TREATMENT INSTALLED TO LANDSCAPE ARCHITECTS DETAILS.
9. ALL EXISTING SERVICES TO BE EXTENDED AS A PART OF FUTURE ROAD CONSTRUCTION WORKS.

NOTE:

REFER TO GLOBAL STABILITY REPORT BY PACIFIC
GEOTECH, REFERENCE PG-5335-B, 2025-02-03, GSR VER 1
FOR ROAD EMBANKMENT RECOMMENDATION.

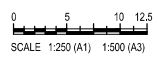
NOTE:

A RISK ASSESSMENT WILL BE UNDERTAKEN AS PART OF
THE FUTURE ROAD DESIGN TO DETERMINE IF ROAD
BARRIER SYSTEMS ARE REQUIRED.



FOR APPROVAL

!!! CAUTION !!!
CONTRACTOR TO CONFIRM THE DEPTH AND
LOCATION OF ALL SERVICES PRIOR TO COMMENCING
ANY CONSTRUCTION WORKS OR ORDERING ANY
MATERIALS.



CONSULTANT: MPN CONSULTING PTY LTD
CONTACT: SHAUN SWENSON (RPEQ 16906)
TELEPHONE: (07) 3335 4305
DATE: 14.02.25

E	22.04.25	FOR APPROVAL	DL	SS
D	14.02.25	FOR APPROVAL	DL	SS
C	28.01.25	FOR TENDER	DL	SS
B	08.11.24	PRELIMINARY ISSUE	DL	SS
A	07.11.24	PRELIMINARY ISSUE	DL	SS
ISSUE DATE	AMENDMENT	BY	APP	

YARRABILBA PRECINCT 5 MIBA
WONGAWALLAN DR EXTENSION
YARRABILBA, QLD 4207

SCALES: AS SHOWN
DESIGN: DL
DRAWN: DL
CHKD: SS
APPRD: SS
DATE: 30.01.2025

CUSTOMER:

CIVIL WORKS PLAN
SHEET 2 OF 2



ABN: 39 092 191 799
P.O. Box 1335 4355
St Albans (VIC) 3021

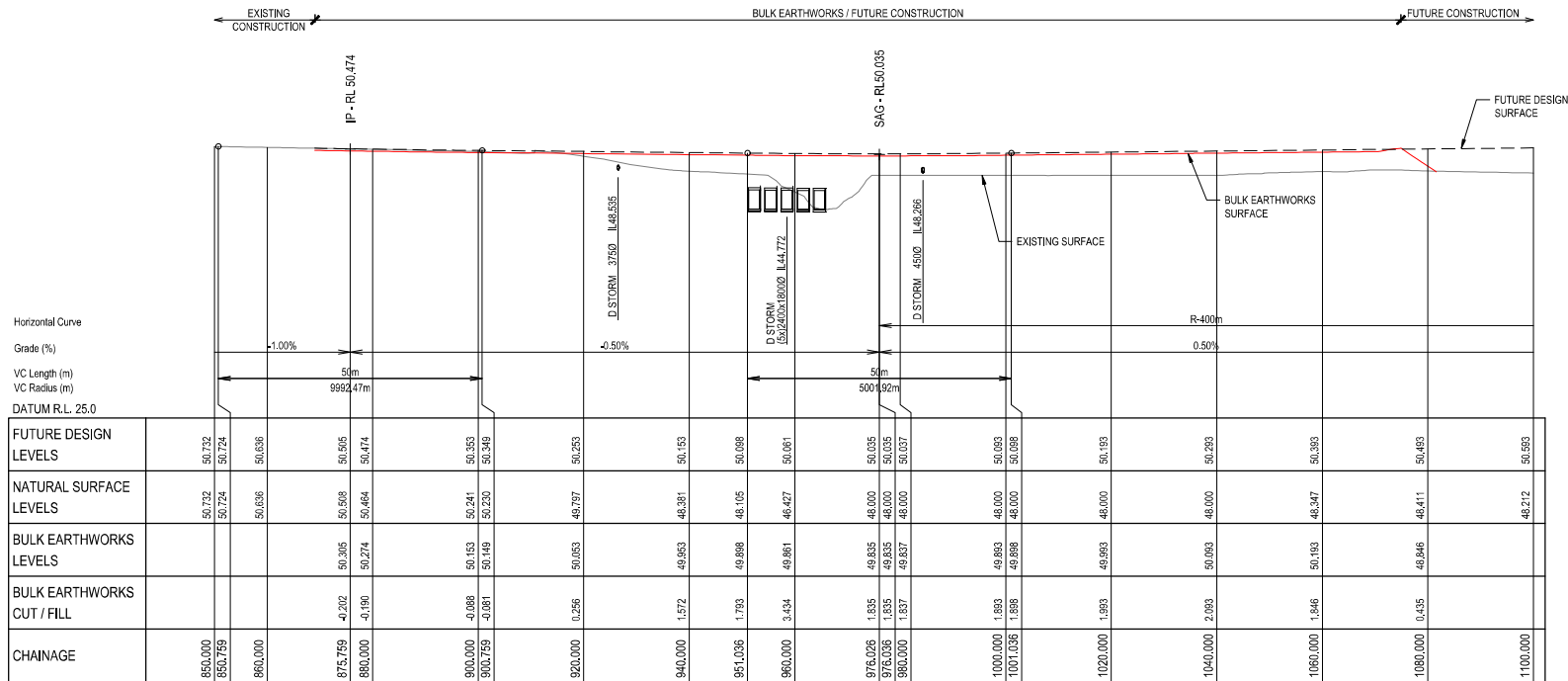
Level 4 Building 3,
Kings Row Office Park,
42 McDougall Street, Mfno. QLD 4207

9951-1

DRAWING NO. REV E

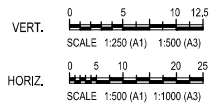
ER.1.02

NOT FOR CONSTRUCTION



LONGITUDINAL SECTION - WONGAWALLAN DRIVE

SCALE 1 : 500 Horiz.
1 : 250 Vert.



CONSULTANT: MPN CONSULTING PTY LTD
CONTACT: SHAUN WENSON (RPEQ 16906)
TELEPHONE: (07) 3335 4305

Shaun Wenson DATE: 14.02.25

D	14.02.25	FOR APPROVAL	DL SS
C	28.01.25	FOR TENDER	DL SS
B	08.11.24	PRELIMINARY ISSUE	DL SS
A	07.11.24	PRELIMINARY ISSUE	DL SS
ISSUE DATE	AMENDMENT		BY APP

**YARRABILBA PRECINCT 5 MIBA
WONGAWALLAN DR EXTENSION**

YARRABILBA, QLD 4207

SCALES:	AS SHOWN
DESIGN:	DL
DRAWN:	DL
CHKD:	SS
APPRD:	SS
DATE:	30.01.2025

CLIENT: *Wongawallan Shire Council*

**WONGAWALLAN DRIVE
LONGITUDINAL SECTION**

ABN 39 062 191 799
P.O. Box 7 3335 4305
4. Williams Street
Level 4, Building 3,
Kings Row Office Park,
42 McDougall Street, Mfrs. QLD 4305

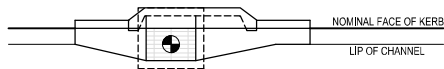
FOR APPROVAL

9951-1

DRAWING No. **ER.3.01**

REV **D**

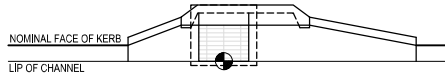
NOT FOR CONSTRUCTION



TYPICAL KERB IN LINE GULLY SETOUT

SCALE 1:50

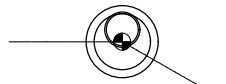
DENOTES SETOUT POINT



TYPICAL LIP IN LINE GULLY SETOUT

SCALE 1:50

DENOTES SETOUT POINT



TYPICAL MANHOLE SETOUT

SCALE 1:50

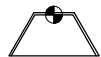
DENOTES SETOUT POINT



TYPICAL FIELD INLET SETOUT

SCALE 1:50

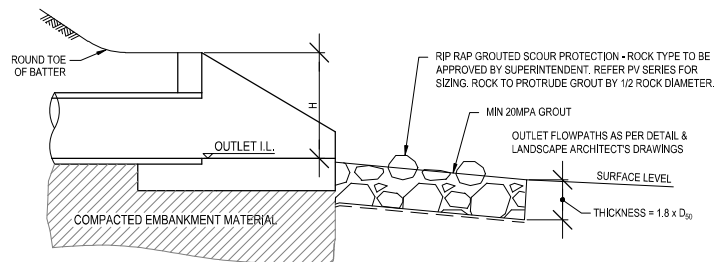
DENOTES SETOUT POINT



TYPICAL HEADWALL SETOUT

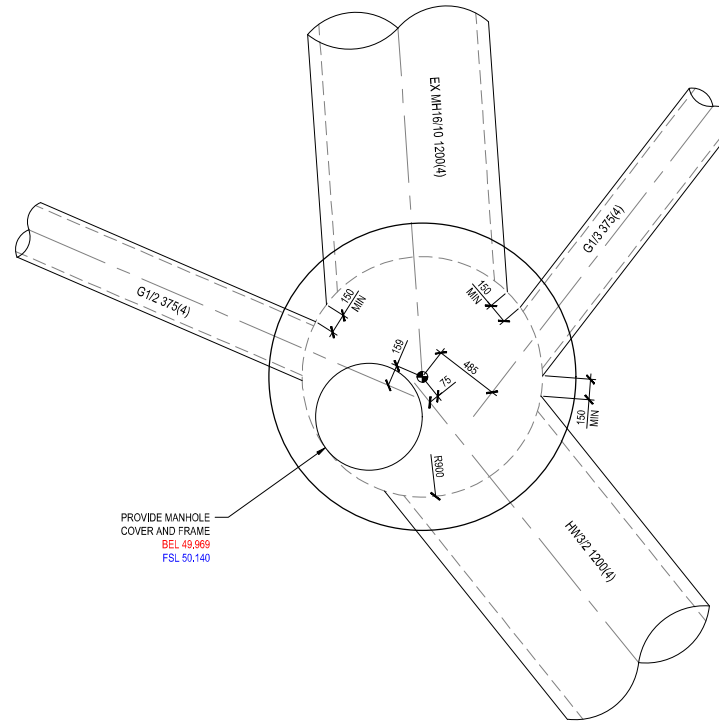
SCALE 1:50

DENOTES SETOUT POINT



TYPICAL ROCK PROTECTION DETAIL

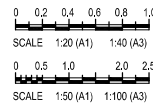
NOT TO SCALE



PROVIDE MANHOLE
COVER AND FRAME
BEL 49.969
FSL 50.140

MANHOLE MH2/2 - Ø1800

SCALE 1:20



CONSULTANT: MPN CONSULTING PTY LTD
CONTACT: SHAUN SWENSON (RPEQ 16906)
TELEPHONE: (07) 3335 4305
DATE: 14/02/25

ISSUE	DATE	AMENDMENT	BY	APP
D	14/02/25	FOR APPROVAL	DL	SS
C	28/01/25	FOR TENDER	DL	SS
B	08/11/24	PRELIMINARY ISSUE	DL	SS
A	07/11/24	PRELIMINARY ISSUE	DL	SS

YARRABILBA PRECINCT 5 MIBA
WONGAWALLAN DR EXTENSION
YARRABILBA, QLD 4207

SCALES: AS SHOWN
DESIGN: DL
DRAWN: DL
CHKD: SS
APPROD: SS
DATE: 30/01/2025

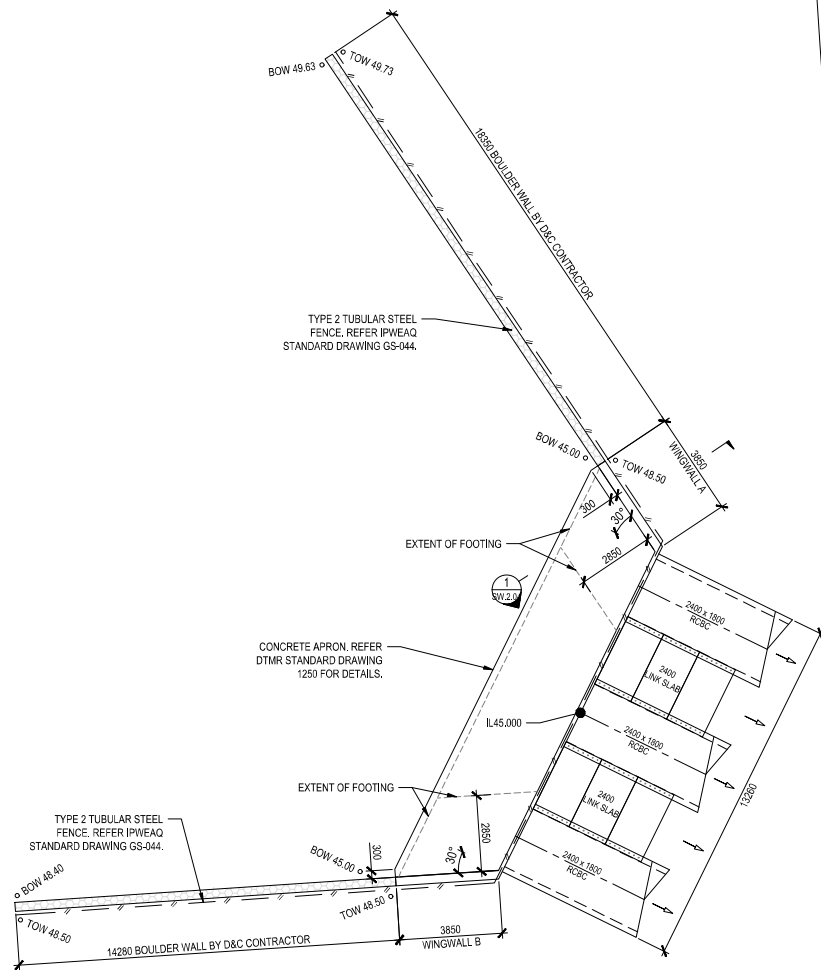
CLIENT:
STORMWATER DRAINAGE
DETAILS - SHEET 1 OF 4

MPN CONSULTING
42 McDougall Street, MIBA, QLD 4207
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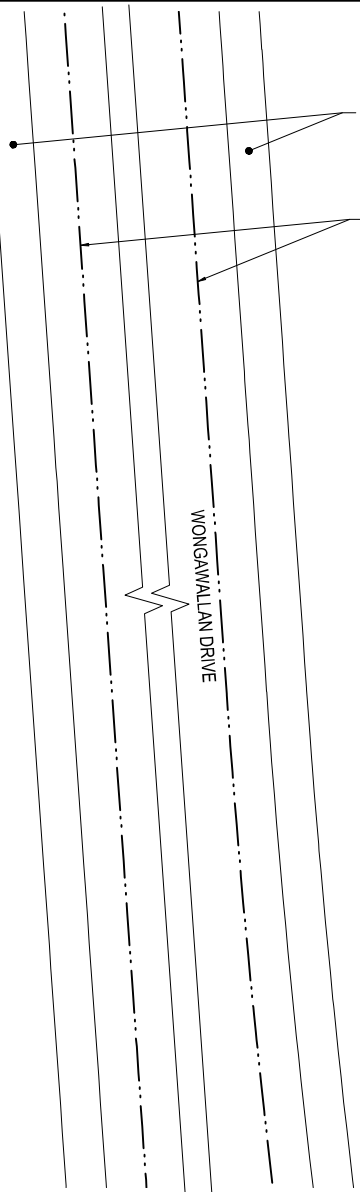
9951-1
SW.2.01
D

NOT FOR CONSTRUCTION

- NOTES:
- CONSTRUCTION OF ALL CULVERTS AND HEAD WALLS TO BE IN ACCORDANCE WITH DEPARTMENT OF MAIN ROADS STANDARD DRAWING 1250 UNLESS NOTED OTHERWISE.
 - CULVERT BASES AND APRONS TO BE BROOM FINISH



HW1/1 DETAIL
SCALE 1:100



HW2/1 DETAIL
SCALE 1:100

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV2025/1596
Date: 26/06/2025



0 1 2 3 4 5
SCALE 1:100 (A1) 1:200 (A3)

CONSULTANT: MPN CONSULTING PTY LTD
CONTACT: SHAUN SWENSON (RPEQ 16906)
TELEPHONE: (07) 3335 4305
DATE: 14/02/25

ISSUE	DATE	AMENDMENT	BY	APP
D	14/02/25	FOR APPROVAL	DL	SS
C	28/01/25	FOR TENDER	DL	SS
B	08/11/24	PRELIMINARY ISSUE	DL	SS
A	07/11/24	PRELIMINARY ISSUE	DL	SS

YARRABILBA PRECINCT 5 MIBA
WONGAWALLAN DR EXTENSION
YARRABILBA, QLD 4207

DESIGN: DL
DRAWN: DL
CHECK: SS
APPROD: SS
DATE: 30/01/2025

CLIENT:
STORMWATER DRAINAGE
DETAILS - SHEET 2 OF 4

MPN CONSULTING
A/BN 39 062 191 799
P.O. Box 13355 4355
Level 4, Building 3,
Kings Row Office Park,
42 McDougall Street, Mfrn, QLD 4355
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9951-1
DRAWING No. SW.2.02
REV D

NOT FOR CONSTRUCTION

NOTES

1. LOADS

ROOF SLABS DESIGN BASED ON AUSTRROADS BRIDGE CODE W7

2. CONCRETE

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT EDITIONS OF AS 3600 "CONCRETE STRUCTURES" EXCEPT AS VARIED BY THE CONTRACT DOCUMENTS. FOR ALL RELEVANT CONSTRUCTION NOTES REFER TO 0.02 CONCRETE COMPONENTS AND QUALITY SHALL BE AS FOLLOWS:-

28 DAY COMPRESSIVE STRENGTH:		
COMPONENT		STRENGTH (F _c)
WALLS		N40
BASE SLAB		N40
ROOF SLAB		N40
CONCRETE ATTRIBUTES		
PARAMETER	'N' CLASS	'S' CLASS
56 DAY DRYING SHRINKAGE	REFER AS1379	650µ MEDIAN
MAXIMUM AGGREGATE SIZE	20mm	20mm
SLUMP	80 ± 15mm	80 ± 15mm
CEMENT TYPE	REFER AS1379	GP
CONTROL TESTING TYPE	PROJECT TO AS1379 CLAUSE 6.5	PROJECT TO AS1379 CLAUSE 6.5

3. FIRE RESISTANCE RATING

N/A HOURS

4. REINFORCEMENT COVER

THE CLEAR CONCRETE COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:-

COMPONENT	COVER (mm) U.N.O.
WALLS/ SLABS	50mm SOIL FACE
	50mm INTERNAL FACE

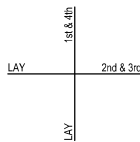
5. REINFORCEMENT BAR LAPS

U.N.O. BAR LAPS (mm) SHALL BE AS FOLLOWS:-

BAR LAPS FOR WALLS			
BAR SIZE	LAP	BAR SIZE	LAP
N12	500	N28	1500
N16	700	N32	1800
N20	950	N36	2100
N24	1200	N40	2450

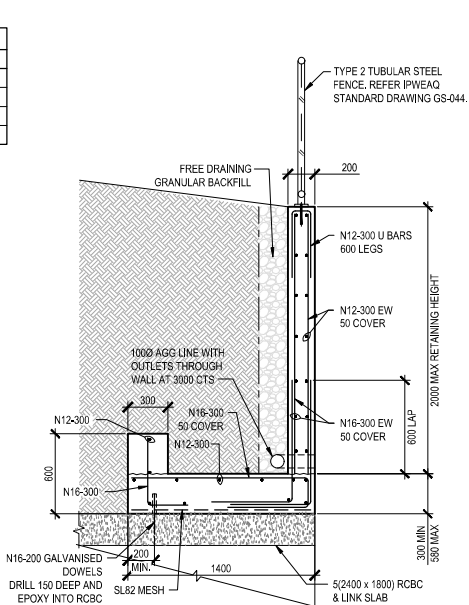
6. BEARING CAPACITIES

ASSUMED 150KPa BEARING AT BASE.



BAR LAYING SEQUENCE

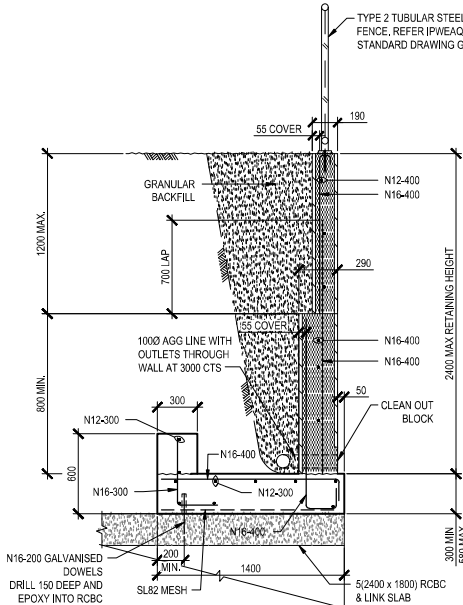
DISTRIBUTION BARS TO BE N12-300



HW1/1 & HW2/1 HEADWALL DETAIL

(OPTION 1)

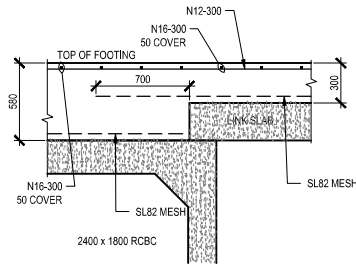
SCALE 1:20



HW1/1 & HW2/1 HEADWALL DETAIL

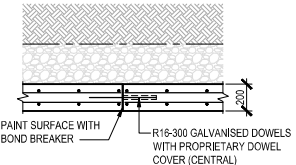
(OPTION 2)

SCALE 1:20



HEADWALL STEP DETAIL

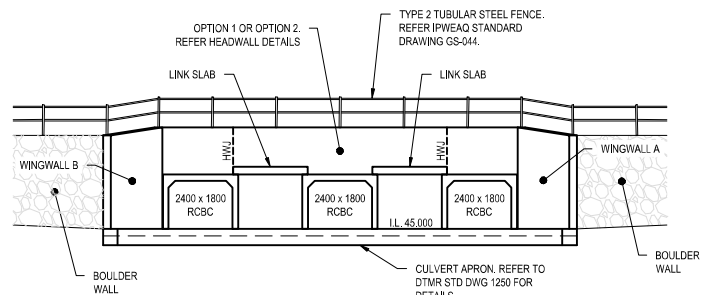
SCALE 1:20



HEADWALL JOINT DETAIL (HWJ)

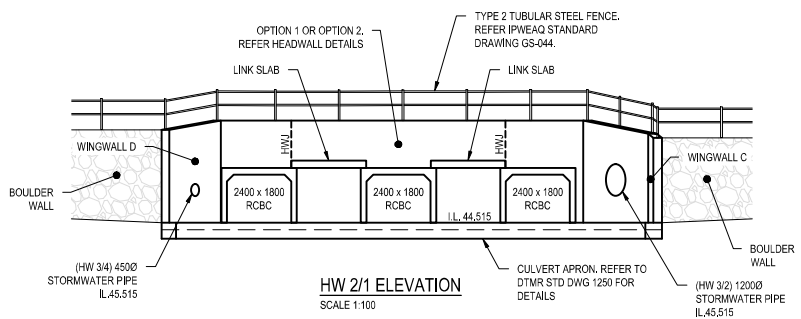
REFER ELEVATIONS FOR LOCATIONS

SCALE 1:20



HW 1/1 ELEVATION

SCALE 1:100

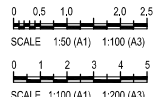
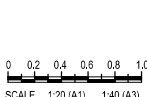


HW 2/1 ELEVATION

SCALE 1:100

NOTE: VERTICAL WALL REINFORCEMENT IS TO BE PLACED TO A TOLERANCE OF +/- 5mm AS PER AS3700 SECTION 12. USE OF SURVEYED STRING LINES OR SIMILAR IS REQUIRED TO ACHIEVE THIS TOLERANCE ON SITE.

PLANS AND DOCUMENTS referred to in the PCA DEVELOPMENT APPROVAL Approval no: DEV2025/1596 Date: 26/06/2025



CONSULTANT: MPV CONSULTING PTY LTD CONTACT: SHAUN SWENSON (RPEQ 16906) TELEPHONE: (07) 3335 4305

DATE: 14/02/25

ISSUE	DATE	AMENDMENT	BY	APP
D	14/02/25	FOR APPROVAL	DL	SS
C	28/01/25	FOR TENDER	DL	SS
B	08/11/24	PRELIMINARY ISSUE	DL	SS
A	07/11/24	PRELIMINARY ISSUE	DL	SS

YARRABILBA PRECINCT 5 MIBA WONGAWALLAN DR EXTENSION YARRABILBA, QLD 4207

SCALES: AS SHOWN
DESIGN: DL
DRAWN: DL
CHKD: SS
APPRO: SS
DATE: 30/01/2025

CLIENT:

STORMWATER DRAINAGE DETAILS - SHEET 3 of 4



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9951-1
SW.2.03
D

NOT FOR CONSTRUCTION

NOTES

1. LOADS
ROOF SLABS DESIGN BASED ON AUSTRADRS BRIDGE CODE W7

2. CONCRETE
ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT EDITIONS OF AS 3600 "CONCRETE STRUCTURES" EXCEPT AS VARIED BY THE CONTRACT DOCUMENTS. FOR ALL RELEVANT CONSTRUCTION NOTES REFER ON 02 CONCRETE COMPONENTS AND QUALITY SHALL BE AS FOLLOWS:-

28 DAY COMPRESSIVE STRENGTH:		
COMPONENT		STRENGTH (F _c)
WALLS		N40
BASE SLAB		N40
ROOF SLAB		N40
CONCRETE ATTRIBUTES		
PARAMETER	'N' CLASS	'S' CLASS
56 DAY DRYING SHRINKAGE	REFER AS1379	650µ MEDIAN
MAXIMUM AGGREGATE SIZE	20mm	20mm
SLUMP	80 ± 15mm	80 ± 15mm
CEMENT TYPE	REFER AS1379	GP
CONTROL TESTING TYPE	PROJECT TO AS1379 CLAUSE 6.5	PROJECT TO AS1379 CLAUSE 6.5

3. FIRE RESISTANCE RATING

N/A HOURS

4. REINFORCEMENT COVER

THE CLEAR CONCRETE COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:-

COMPONENT	COVER (mm) U.N.O.
WALLS/ SLABS	50mm SOIL FACE
	50mm INTERNAL FACE

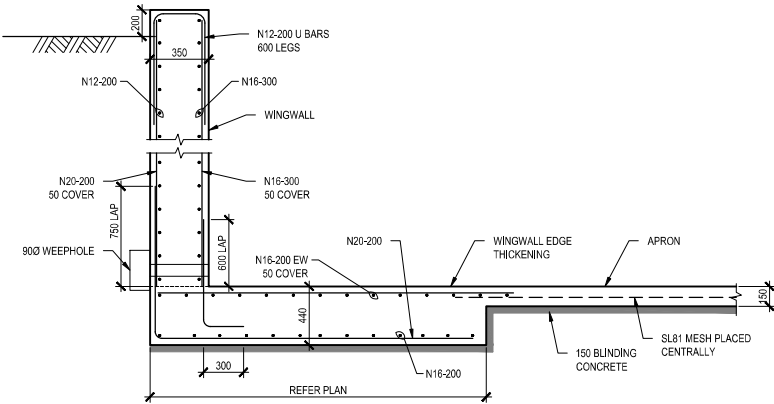
5. REINFORCEMENT BAR LAPS

U.N.O. BAR LAPS (mm) SHALL BE AS FOLLOWS:-

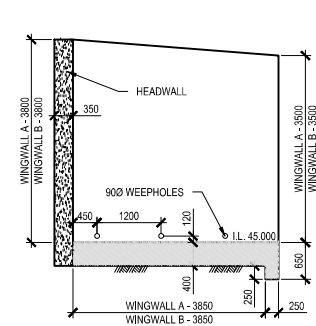
BAR LAPS FOR WALLS			
BAR SIZE	LAP	BAR SIZE	LAP
N12	500	N28	1500
N16	700	N32	1800
N20	950	N36	2100
N24	1200	N40	2450

6. BEARING CAPACITIES

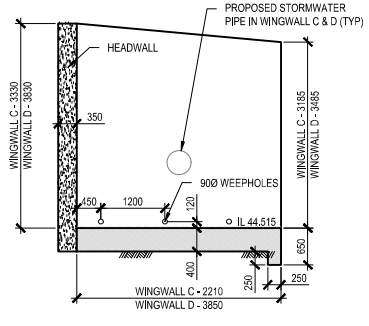
ASSUMED 150KPa BEARING AT BASE.



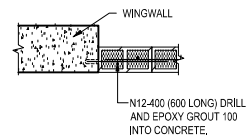
TYPICAL WING WALL SECTION
SCALE 1:20



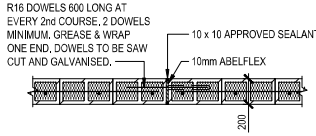
HW 1/1 TYP. WINGWALL
SCALE 1:50



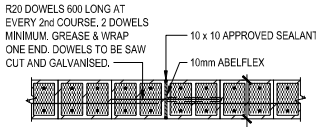
HW 2/1 TYP. WINGWALL
SCALE 1:50



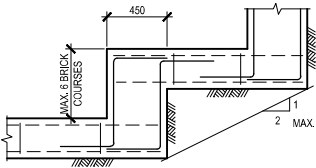
TYPICAL CONNECTION TO
CULVERT WINGWALL



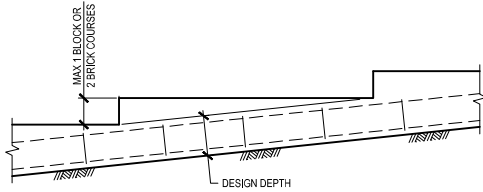
TYPICAL (200) CONTROL JOINT - 'CJ'



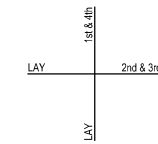
TYPICAL (300) CONTROL JOINT - 'CJ'



FOOTING STEPDOWN
AT STEEP SLOPE MORE THAN 1 IN 10



FOOTING STEPDOWN
AT GENTLE SLOPE 1 IN 10 MAX.



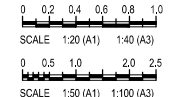
BAR LAYING SEQUENCE
DISTRIBUTION BARS TO BE N12-300

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no. DEV2025/1596

Date: 26/06/2025

Queensland Government



CONSULTANT: MPN CONSULTING PTY LTD
CONTACT: SHAUN SWENSON (RPEQ 16906)
TELEPHONE: (07) 3335 4305

SW Swenson DATE: 14.02.25

D	14.02.25	FOR APPROVAL	DL	SS
C	28.01.25	FOR TENDER	DL	SS
B	08.11.24	PRELIMINARY ISSUE	DL	SS
A	07.11.24	PRELIMINARY ISSUE	DL	SS
ISSUE DATE	AMENDMENT	BY	APP	

YARRABILBA PRECINCT 5 MIBA
WONGAWALLAN DR EXTENSION
YARRABILBA, QLD 4207

SCALES:	AS SHOWN
DESIGN:	DL
DRAWN:	DL
CHKD:	SS
APPRD:	SS
DATE:	30.01.2025

CLIENT:

STORMWATER DRAINAGE
DETAILS - SHEET 4 of 4

MPN CONSULTING

ABN: 29 062 191 799
P: 07 3335 4305
E: shawn@mpnconsulting.com.au
Level 4, Building 3,
Kings Row Office Park,
42 McDougall Street, Mfrn, QLD 4207

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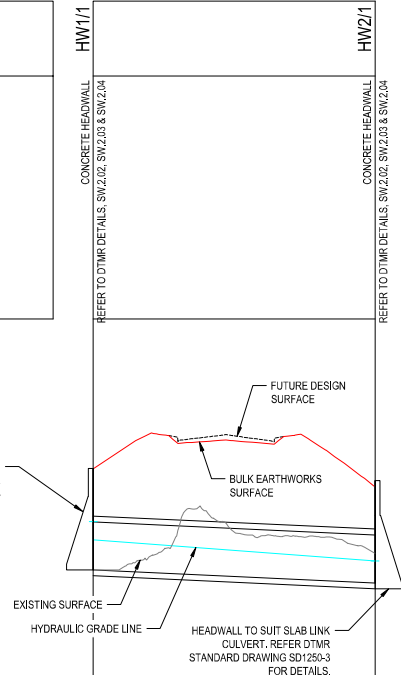
SW.2.04 D

FOR APPROVAL

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STRUCTURE NAME
STRUCTURE DESCRIPTION

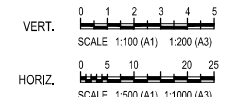
HEADWALL TO SUIT SLAB LINK
CULVERT. REFER DTMR
STANDARD DRAWING SD1250-3
FOR DETAILS.



PIPE SIZE (mm)
PIPE CLASS
PIPE GRADE (%)
PIPE SLOPE (1 in X)
FULL PIPE VELOCITY (m/s)
PART FULL VELOCITY (m/s)
DATUM RL

H.G.L IN PIPE & W.S.E IN STRUCTURE
PIPE FLOW (m3/s)
PIPE CAPACITY (m3/s)
DEPTH OF INVERT
INVERT LEVEL OF DRAIN
TEMPORARY / DESIGN SURFACE LEVEL
SETOUT COORDINATES
CHAINAGE

LINE



CONSULTANT: MPN CONSULTING PTY LTD
CONTACT: SHAUN SWENSON (RPEQ 16906)
TELEPHONE: (07) 3335 4305

Shaun Swenson DATE: 14.02.25

D	14.02.25	FOR APPROVAL	DL	SS
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ISSUE DATE	AMENDMENT	BY	APP	

YARRABILBA PRECINCT 5 MIBA
WONGAWALLAN DR EXTENSION
YARRABILBA, QLD 4207

SCALES: AS SHOWN
DESIGN: DL
DRAWN: DL
CHECK: DL
APPROD: SS
DATE: 30.01.2025

CLIENT:

STORMWATER DRAINAGE
LONGITUDINAL SECTIONS

MPN CONSULTING
Level 4, Building 3,
Kings Row Office Park,
42 McDougall Street, Mfrs. QLD 4004

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ABN: 39 092 191 799 P: 07 3335 4305 E: shawn@mpnconsulting.com.au
9951-1
DRAWING No.
SW.3.01
REV
D

- NOTES
1. ALL STORMWATER MANHOLES IN ROADWAY SHALL TO BE CLASS D TRAFFICABLE. REFER IPWEAQ STD DWG DS-019.
 2. ALL STORMWATER GULLY PITS SHALL BE IN ACCORDANCE WITH IPWEAQ STANDARD DRAWING DS-063.
 3. ALL STORMWATER FIELD INLETS SHALL BE IN ACCORDANCE WITH IPWEAQ STANDARD DRAWING DS-050.
 4. CONVERTER SLABS TO MANUFACTURER'S SPECIFICATIONS.
 5. ALL STORMWATER INLETS TO HAVE ATLAN STORMSACKS INSTALLED.
 6. SURFACE LEVELS DENOTED AS **TEMPORARY** TO BE RAISED TO MATCH **DESIGN** PAVEMENT SURFACE DURING ROAD CONSTRUCTION.
 7. ALL STORMWATER MANHOLES SHALL BE IN ACCORDANCE WITH IPWEAQ STANDARD DRAWING DS-010.

FOR APPROVAL

NOT FOR CONSTRUCTION

