

PROJECT NAME:

PIALLIGO VILLAGE AND ANIMAL REFERENCE HOSPITAL

JOB NUMBER:

161310

DISCIPLINE

CIVIL ENGINEERING

PROJECT LOCATION:

BLOCK 17 SECTION 2 PIALLIGO, ACT

SUBMISSION TYPE:

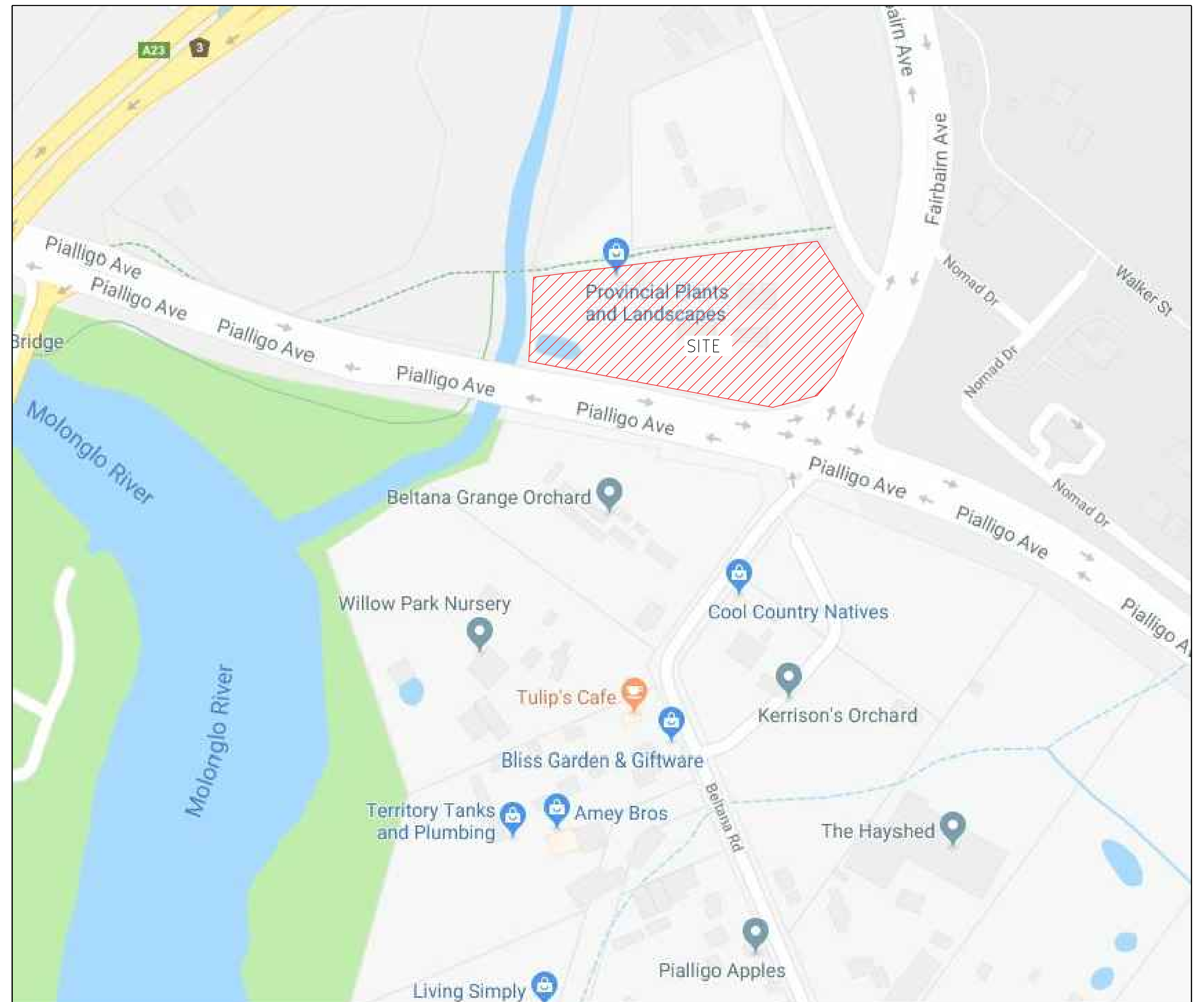
DESIGN ACCEPTANCE

DEVELOPER'S NAME:

TURCO & ASSOCIATES

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LOCALITY PLAN



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BEST PRACTICE CERTIFICATION
ISO 9001 QUALITY MANAGEMENT SYSTEM
ISO 14001 ENVIRONMENT MANAGEMENT SYSTEM
AS 4801 OH&S MANAGEMENT SYSTEM

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NOTATION

AL	ALIGNMENT
BK	BARRIER KERB
CH	CHAINAGE
CK	CASTELLATED KERB
CL	COVER LEVEL
CTB	CONCRETE THRUST BLOCK
CT	CONCRETE THRUST PIER
DP	DOWN PIPE
FSL	FINISHED SURFACE LEVEL
FK	FLUSH KERB
H	HYDRANT
HER	HIGH END RISER
HW	HEAD WALL
IL	INVERT LEVEL
IP	INTERSECTION POINT
IR	INTERMEDIATE RISER
K4A	k4A KERB
KR	KERB RETURN
KG	KERB AND GUTTER
KO	KERB ONLY
MH	MANHOLE
MK	MOUNTABLE KERB
MKG	MOUNTABLE KERB AND GUTTER
MS	MOWING STRIP
OCI	OPEN CONCRETE INVERT
PC	PRAM CROSSING
PTB	PIER THRUST BLOCK
PR	PRAM RAMP
RL	REDUCED LEVEL
ROCI	REINFORCED OPEN CONCRETE INVERT
RVC	REINFORCED VEHICLE CROSSING
SC	STOP COCK
SS	SUBSOIL
SV	STOP VALVE
TP	TANGENT POINT
TS	TRENCH STOP
TW	THRUST WALL
VC	VEHICULAR CROSSING

GENERAL NOTES

- THE CONTRACTOR MUST COMPLY WITH CURRENT WORK AND HEALTH AND SAFETY LEGISLATION, REGULATIONS AND THE CODES OF PRACTICE.
- THE CONTRACTOR MUST SECURE ALL PERMITS, ARRANGE ALL CLEARANCES AND PAY ALL FEES REQUIRED TO COMPLETE THE PROJECT BEFORE COMMENCING WORK OR PRIOR TO THEM CAUSING DELAY TO THE PROJECT.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION WORKS BEING CARRIED OUT IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING LEVELS WITHIN THE SITE PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES SHALL BE REFERRED TO THE DESIGN CONSULTANT A MINIMUM 7 DAYS PRIOR TO COMMENCEMENT OF ASSOCIATED WORKS.
- THE CONTRACTOR SHALL ENSURE DISTURBED SURFACES OUTSIDE THE GENERAL LIMIT OF WORK IS REINSTATED AT THE CONTRACTORS EXPENSE, TO THE SUPERINTENDENTS SATISFACTION. THESE SURFACES INCLUDE BUT ARE NOT LIMITED TO ROAD PAVEMENTS, KERBS, VERGE PAVING OR GRASSING, PEDESTRIAN FOOTPATHS AND DRIVEWAYS.
- THE CONTRACTOR IS RESPONSIBLE FOR MAKING SMOOTH CONNECTION TO EXISTING.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TEMPORARY EARTHWORKS IN A STABLE CONDITION DURING CONSTRUCTION. TEMPORARY SHORING AND BATTERING MUST BE IN ACCORDANCE WITH AS3798
- THE CONTRACTOR SHALL MAKE PROVISIONS FOR BOTH VEHICULAR AND PEDESTRIAN TRAFFIC AND SITE VISITORS. THE CONTRACTOR MUST ENSURE SAFE ACCESS FOR NON CONSTRUCTION PEOPLE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION OF ALL NECESSARY TEMPORARY TRAFFIC MANAGEMENT PLANS APPROVED IN ACCORDANCE WITH AS1742.3 AND RELEVANT AUTHORITY REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION OF ALL NECESSARY POLLUTION CONTROL PLANS AND THEIR APPROVAL.
- THE CONTRACTOR SHALL ENSURE ALL MATERIALS AND WORKMANSHIP IS IN ACCORDANCE WITH RELEVANT CURRENT CODES, STANDARDS, CONTRACT REQUIREMENTS AND AUTHORITY REQUIREMENTS.
- THE CONTRACTOR SHALL LIAISE WITH ALL ADJACENT CONTRACTS TO ENSURE ALL ALIGNMENTS AND LEVELS OF NEW OR RELOCATED UTILITIES ARE COMPATIBLE.
- THE INFORMATION PROVIDED IN THESE DRAWINGS PREPARED BY SELICK CONSULTANTS IS SOLELY FOR THE USE OF THE RECIPIENT. SELICK CONSULTANTS HAS NO DUTY OF CARE OR ACCEPTS ANY RESPONSIBILITY FOR A THIRD PARTY WHO MAY RELY UPON THESE DOCUMENTS FOR ANY PURPOSE.
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER ENGINEERING/ ARCHITECTURAL DRAWINGS AND SPECIFICATIONS OR OTHER WRITTEN INSTRUCTION THAT MAY BE ISSUED DURING THE TIME OF THE CONTRACT.
- BLOCK BOUNDARIES SHOWN ON THESE DRAWINGS ARE IN ACCORDANCE WITH SUPPLIED DIGITAL DATA OR SURVEYED.
- DO NOT SCALE THESE DRAWINGS.
- ALL DIMENSIONS ARE IN MILLIMETERS OR METERS.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
- ORIGIN OF SURVEYED AND DESIGN COORDINATES - MOUNT STROMLO 200000E, 600000N

UTILITIES NOTES

- THE UTILITIES INDICATED ON THESE DRAWINGS WERE COMPILED FROM DIGITAL PLANS ISSUED BY UTILITY AUTHORITIES VIA THE DIAL BEFORE YOU DIG SERVICE. THE INFORMATION PROVIDED WAS PREPARED SOLELY FOR THE USE OF THE AUTHORITY AND IS NOT NECESSARILY ACCURATE.
- BEFORE COMMENCING WORK THE CONTRACTOR SHALL CONTACT THE RELEVANT UTILITY AUTHORITIES AND VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES ON SITE AND OBTAIN NECESSARY CLEARANCES FOR POTHOLING AND CONSTRUCTION. DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE PHYSICAL ONSITE CONDITIONS MUST BE REPORTED BACK TO THE DESIGN CONSULTANT MINIMUM 7 DAYS PRIOR TO COMMENCEMENT OF WORKS.
- BEFORE COMMENCING EXCAVATION THE CONTRACTOR SHALL EXPOSE ALL CROSSINGS AND CONNECTIONS POINTS ON EXISTING UNDERGROUND UTILITIES. THE LEVELS OF CONNECTION POINTS AND LEVELS OF EACH CROSSING SHALL BE SURVEYED AND ANY VARIATIONS OF THE LEVELS GIVEN OR ANY DIFFICULTIES IN BEING ABLE TO ACHIEVE THE REQUIRED GRADES OF NEW PIPELINES SHALL BE REPORTED TO THE SUPERINTENDENT.
- BEFORE COMMENCING WORK THE CONTRACTOR SHALL ARRANGE THE RELOCATION OR ADJUSTMENT OF A UTILITY SERVICE TO THE APPROVAL OF THE RELEVANT UTILITY AUTHORITY.
- BEFORE COMMENCING WORK THE CONTRACTOR SHALL LOCATE AND MARK ALL UTILITIES WITHIN THE EXTENT OF WORKS.
- IF AN UNDERGROUND SERVICE IS DAMAGED DURING CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT AND THE RELEVANT UTILITY AUTHORITY IMMEDIATELY. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT NO EXTRA COST TO THE PRINCIPLE.

ICON WATER NOTES

- ALL WORK ON ICON WATER WATER SUPPLY AND SEWER MAINS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT STANDARDS:
 - WSA-02 'GRAVITY SEWERAGE CODE OF AUSTRALIA'
 - STD-SPE-G-011 'ICON WATER SUPPLEMENT TO WSA-02'
 - WSA-03 'WATER SUPPLY CODE OF AUSTRALIA'
 - STD-SPE-G-012 'ICON WATER SUPPLEMENT TO WSA-03'
 - STD-SPE-M-006 'REQUIREMENTS FOR PROPERTY SERVICE CONNECTIONS'
- CONNECTIONS AND OR DISCONNECTIONS OF SEWER AND WATER AT THE MAIN TO BE MADE BY ICON WATER AT CONTRACTOR'S EXPENSE. THE CONTRACTOR IS TO EXPOSE THE MAIN AT THE LOCATION OF THE CONNECTION/DISCONNECTION IN PREPARATION FOR THE WORK BY ICON WATER. ALL EXCAVATION IN THE VICINITY OF MAINS IS TO BE CARRIED OUT BY HAND.
- THE CONTRACTOR MUST VISIT THE SITE OF WORKS BEFORE TENDERING AND MAKE ALLOWANCES IN HIS TENDER FOR ALL TOPOGRAPHIC CONSTRAINTS AFFECTING THE EXECUTION OF THE WORKS AND THE RESTORATION OF THE SITE.
- ALTHOUGH THE POSITIONS OF EXISTING UNDERGROUND SERVICES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS, THE CONTRACTOR SHALL CONFIRM THE DEPTH AND LOCATION OF ALL SERVICES ON SITE BEFORE COMMENCING EXCAVATIONS. CONTRACTOR TO ADVISE DESIGN ENGINEER IF NOT IN ACCORDANCE WITH THE PLAN.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD). ALL COORDINATES ARE BASED ON THE ACT STANDARD GRID SYSTEM (STROMLO PROJECTION).
- THE CONTRACTOR MUST SECURE ALL PERMITS, ARRANGE ALL CLEARANCES AND PAY ALL FEES REQUIRED TO COMPLETE THE PROJECT BEFORE COMMENCING WORK.
- WORK AS EXECUTED DRAWINGS, TIE BOOK AND DEPOSITED PLAN MUST BE SUBMITTED BEFORE CONNECTION.
- ANY NON-METALLIC WATER SERVICE IS TO BE INSTALLED WITH TRACER WIRE AND TESTED.
- EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF AT AN APPROVED SPOIL AREA.
- THE CONTRACTOR SHALL REINSTATE ALL DISTURBED SURFACES TO MATCH EXISTING.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION OF ALL NECESSARY TEMPORARY TRAFFIC MANAGEMENT PLANS AND THEIR APPROVAL.
- CONTRACTOR TO CONFIRM DEPTH OF SEWER AND STORMWATER TIE POINTS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ADVISE DESIGN ENGINEER IF NOT IN ACCORDANCE WITH PLAN.
- ANY DEVIATION OF PIPE MATERIAL TO BE PROPOSED TO ENGINEER PRIOR TO INSTALLATION.

SEWER EXPLANATIONS

PIPE INFORMATION BOX

ULS57.39	UPSTREAM INVERT LEVEL
Ø150	PIPE INTERNAL DIAMETER
uPVC SN8	PIPE MATERIAL RCP, PVC OR PVC
2.0%	PIPE GRADE
3.6m	PIPE LENGTH
ULS57.315	DOWNSIDE INVERT LEVEL

SEWER STRUCTURE ID

S2-1 SEWER LINE S2, SEWER STRUCTURE '1'

CLIENT
DR JACOB MICHELSEN

ARCHITECT
TURCO AND ASSOCIATES



PROJECT TITLE
PIALLIGO VILLAGE AND ANIMAL REFERENCE HOSPITAL

DESIGNED BY
AM
CHECKED BY
CO
AUTHORISED BY
DATE
01/02/2019

DRAWING TITLE
GENERAL NOTES

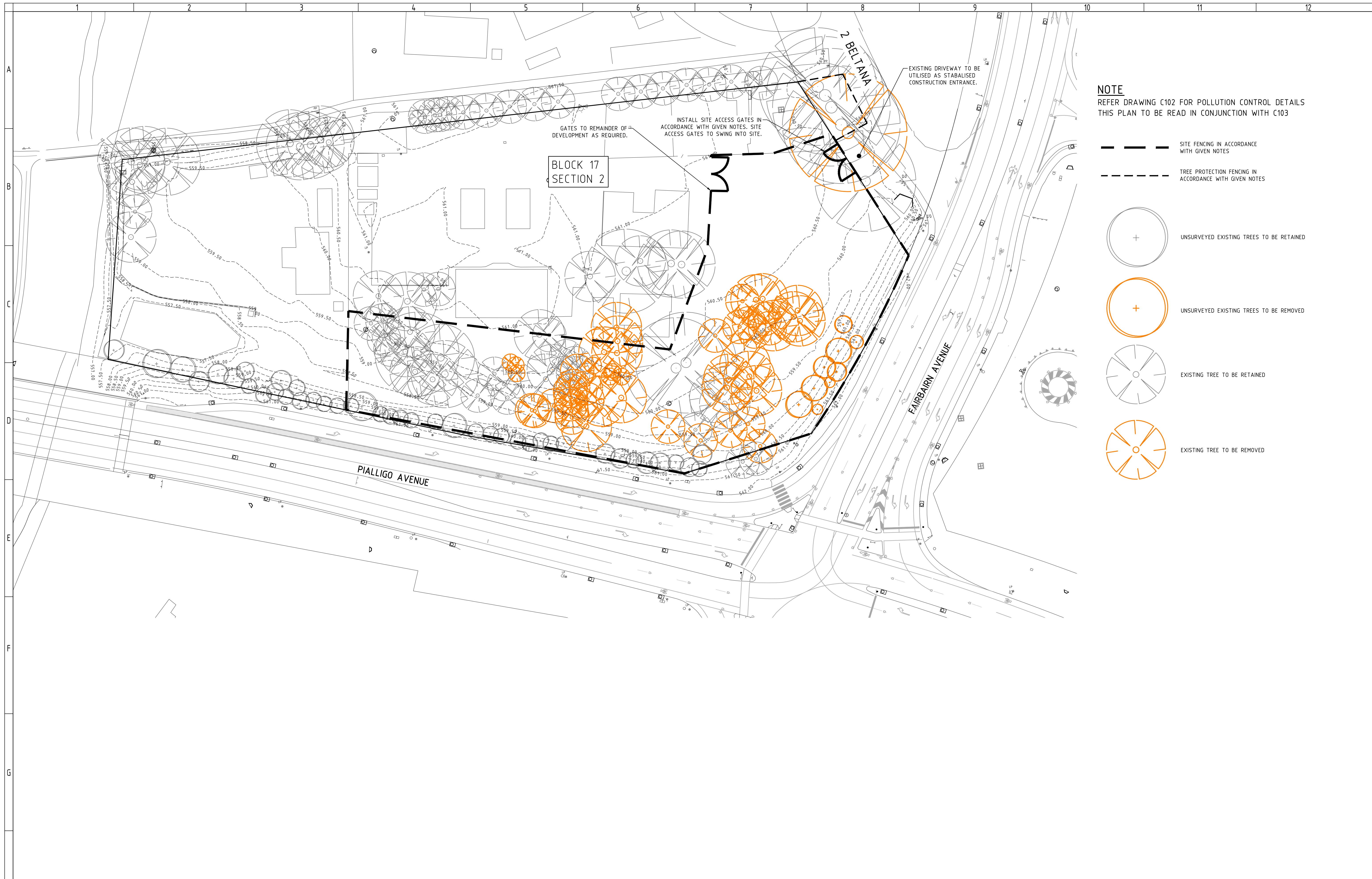
PROJECT LOCATION
**BLOCK 17 SECTION 2
PIALLIGO, ACT**

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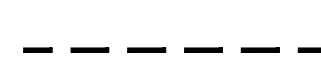
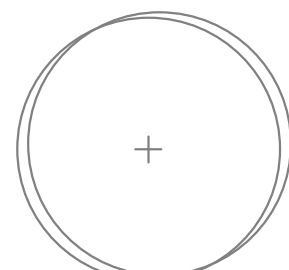
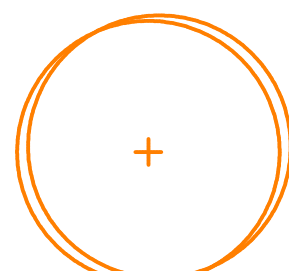
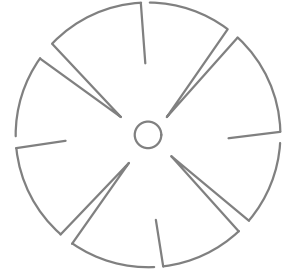
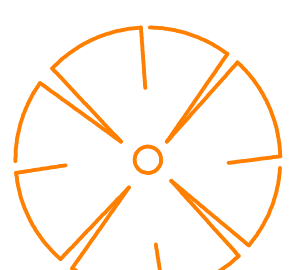
JOB NO. 161310
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REV. A

ISSUE	FOR DESIGN ACCEPTANCE	DATE	RT
DESCRIPTION		DATE	DRAWN
1		01.02.19	
2			

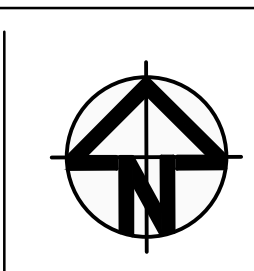
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NOTE
 REFER DRAWING C102 FOR POLLUTION CONTROL DETAILS
 THIS PLAN TO BE READ IN CONJUNCTION WITH C103

-  SITE FENCING IN ACCORDANCE WITH GIVEN NOTES
-  TREE PROTECTION FENCING IN ACCORDANCE WITH GIVEN NOTES
-  UNSURVEYED EXISTING TREES TO BE RETAINED
-  UNSURVEYED EXISTING TREES TO BE REMOVED
-  EXISTING TREE TO BE RETAINED
-  EXISTING TREE TO BE REMOVED

ISSUE	DESCRIPTION	DATE	DRAWN
1	FOR DESIGN ACCEPTANCE	01.02.19	DA
2	REVISED FOR WORKS APPROVAL	22.05.18	TI
3	FOR DESIGN ACCEPTANCE	03.04.18	RT
4	REVISED FOR WORKS APPROVAL	05.10.17	NS
5	REVISED FOR WORKS APPROVAL	21.08.17	AM
6	FOR WORKS APPROVAL	04.08.17	AM
7	FOR REVIEW	21.07.17	NS



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PROJECT TITLE
PIALLIGO VILLAGE AND ANIMAL REFERENCE HOSPITAL

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DATE
 01/02/2019

DRAWING TITLE
LANDSCAPE MANAGEMENT AND PROTECTION PLAN

PROJECT LOCATION
**BLOCK 17 SECTION 2
 PIALLIGO, ACT**



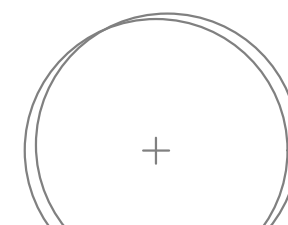

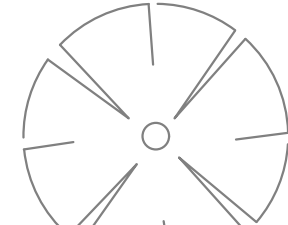

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JOB NO.
161310

DRAWING NO.
C101

REV.
G



-  SITE FENCING IN ACCORDANCE WITH GIVEN NOTES
-  SILT FENCING IN ACCORDANCE WITH GIVEN DETAIL AND NOTES
-  UNSURVEYED EXISTING TREES TO BE RETAINED
-  UNSURVEYED EXISTING TREES TO BE REMOVED
-  EXISTING TREE TO BE RETAINED
-  EXISTING TREE TO BE REMOVED

PLAN TO BE READ IN CONJUNCTION WITH C103

ISSUE	DESCRIPTION	DATE	DRAWN
1	FOR DESIGN ACCEPTANCE	01.02.19	DA
2	REVISED FOR WORKS APPROVAL	22.05.18	TI
3	FOR DESIGN ACCEPTANCE	29.03.18	RT
4	REVISED FOR WORKS APPROVAL	05.10.17	NS
5	REVISED FOR WORKS APPROVAL	21.08.17	AM
6	FOR WORKS APPROVAL	04.08.17	AM
7	FOR REVIEW	21.07.17	NS

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DR JACOB MICHELSEN

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TURCO AND ASSOCIATES



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DRAWING TITLE
POLLUTION CONTROL PLAN

PROJECT LOCATION
**BLOCK 17 SECTION 2
PIALLIGO, ACT**

SCALE		
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JOB NO.	DRAWING NO.	REV.
161310	C102	G

CONTACT DETAILS

PROJECT MANAGER: TBC
SITE MANAGER: TBC

WASTE NOTES

- WASTE ENCLOSURE(S) ARE TO BE USED FOR ALL RUBBISH ON SITE AND RUBBISH REMOVED FROM ENCLOSURE(S) WHEN REQUIRED OR FULL.

CUT AND FILL VOLUMES

CUT 1,665m³
FILL 1,450m³

EXCESS SOIL TO BE DISPOSED OF AT AN ENVIRONMENT PROTECTION AUTHORITY APPROVED LOCATION.

NOISE

ENSURE ALL BUILDING WORK THAT GENERATES NOISE IS CONDUCTED WITHIN THE TIME PERIODS DETAILED IN SCHEDULE 2 OF THE ENVIRONMENT PROTECTION REGULATIONS 2005.

BUILDING WORK DETAILS	MONDAY TO SATURDAY	SUNDAY AND PUBLIC HOLIDAYS
INDUSTRIAL, CITY AND TOWN CENTRE AREAS	6AM TO 8PM	6AM TO 8PM
ANY OTHER AREA WHEN WORK COMPLETED WITHIN 2 WEEKS	7AM TO 6PM	8AM TO 8PM
ANY OTHER AREA WHEN WORK NOT COMPLETED WITHIN 2 WEEKS	7AM TO 6PM	BUILDING WORK MUST NOT EXCEED NOISE STANDARD

IN ADDITION:

- SCHEDULE NOISY ACTIVITIES FOR THE LEAST SENSITIVE TIMES OF THE DAY SUCH AS MID-MORNING AND MID-AFTERNOON.
- SELECT MACHINERY THAT PRODUCE LESS NOISE; AND
- ENSURE MACHINERY IS WELL MAINTAINED.

SEDIMENT CONTROL POND NOTES

- DISCHARGE FROM THE POND IS PERMISSIBLE WHEN THE WATER pH IS 6.5-8.5 AND IS CLARIFIED TO OR AT BELOW 60mg/L (SNTU). IF SEDIMENT LEVEL IS GREATER, THEN PRIOR TO DISCHARGE, THE DAM MUST BE DOSED WITH EITHER ALUM OR GYPSUM AND ALLOWED TO SETTLE UNTIL THE SEDIMENT IS LESS THAN 60mg/L (SNTU).
- WATER LEVEL TO BE MAINTAINED AT LESS THAN 20% OF CAPACITY TO ALLOW RUNOFF STORAGE DURING A RAIN EVENT.
- REGULAR DREDGING OF THE DAM MUST BE CARRIED OUT TO REMOVE SILT.
- SITE DRAWING AND DETAILS MUST BE PROVIDED TO ENVIRONMENT PROTECTION AUTHORITY, FOR APPROVAL PRIOR TO WORKS COMMENCING.

NOTE

ALL WORK IS TO COMPLY WITH ENVIRONMENT PROTECTION GUIDELINES FOR CONSTRUCTION AND LAND DEVELOPMENT IN THE ACT 2011

FIRE

BURNING OF WASTE MATERIALS ON THE SITE, SUCH AS PLASTICS, CHEMICALS OR WOOD THAT MAY BE PAINTED, CHEMICALLY TREATED OR CONTAMINATED WITH CHEMICALS IS ILLEGAL. A FIRE MAY BE PERMITTED FOR HEATING PURPOSES PROVIDED IT IS IN A BRAZIER OR CONSTRUCTED FIREPLACE. ONLY SEASONED, UNTREATED TIMBER CAN BE BURNED FOR HEATING PURPOSES.

SEDIMENT CONTROL NOTES

- SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH "ENVIRONMENT PROTECTION GUIDELINES FOR CONSTRUCTION AND LAND DEVELOPMENT IN THE ACT" (ENVIRONMENT PROTECTION AUTHORITY MARCH 2011) AND FULLY OPERATIONAL PRIOR TO STRIPPING OF SITE TOP SOIL.
- STOCK PILE/S TO BE LOCATED AWAY FROM DRAINAGE LINES AND SURFACE FLOW PATHS. CONTOURED STRIATIONS OR FURROWS TO BE PROVIDED TO STOCK PILES TO MINIMISE EROSION. STABILISED CONSTRUCTION ENTRANCE TO BE CONSTRUCTED PRIOR TO ACCESS TO SITE BY CONSTRUCTION VEHICLES. AGGREGATE TO BE TURNED WHEN SEDIMENT BUILDS UP AND RENEWED WHEN REQUIRED.
- WHERE UNDERGROUND STORMWATER DRAINAGE IS INSTALLED TO INTERNAL ROADWORKS, PROVIDE INLET FILTER IN ACCORDANCE WITH GIVEN DETAIL.
- AVERAGE EXISTING SITE SLOPE: 2.3%
- TOTAL SITE AREA: 8120m²
- ENVIRONMENT PROTECTION AGREEMENT TO BE TAKEN OUT BY BUILDING CONTRACTOR WITH ENVIRONMENT PROTECTION AUTHORITY. (TELEPHONE 132281)
- ALL NEW CONSTRUCTION WORK MUST BE CONTAINED WITHIN THE SITE EXCEPT FOR APPROVED SERVICE CONNECTIONS AND ROADWORKS.
- LIMIT ACCESS TO SITE DURING AND IMMEDIATELY AFTER WET WEATHER.
- REGULARLY REMOVE ANY SOIL FROM ROADS ADJACENT TO THE SITE.
- NO STORAGE OF CONSTRUCTION MATERIALS, PARKING OF VEHICLES NOR EQUIPMENT PERMITTED OUTSIDE OF BLOCK WITHOUT TCCS APPROVAL.
- NO SITE SHEDS, STORAGE SHEDS OR SITE AMENITIES TO BE ERRECTED OUTSIDE OF BLOCK WITHOUT TCCS APPROVAL.
- PROVIDE KERBSIDE FILTER ROLL TO EXISTING SUMPS WHERE INDICATED, REFER TO GIVEN DETAIL.
- KERBSIDE FILTER ROLLS TO BE REMOVED, CLEANED AND REINSTATED ON A WEEKLY BASIS AT A MINIMUM. TRAPPED SEDIMENT ABOUT SUMPS ALSO TO BE REMOVED. CLEANING IS ALSO TO TAKE PLACE IMMEDIATELY AFTER PERIODS OF RAINFALL DURING CONSTRUCTION.
- ALL SERVICE TRENCHES TO BE BACK FILLED WITHIN 24 HOURS OF INSPECTION.
- EXCESS SOIL IS TO BE DISPOSED AT AN ENVIRONMENT PROTECTION AUTHORITY APPROVED LOCATION.
- THE SITE FOREMAN IS TO CONTACT THE ENVIRONMENT PROTECTION AUTHORITY (132281) TO ARRANGE A SITE INSPECTION AND ENDORSEMENT OF SEDIMENT AND EROSION CONTROL MEASURES PRIOR TO WORKS COMMENCING.
- THE SITE FOREMAN IS TO CONTACT THE ENVIRONMENT PROTECTION AUTHORITY (132281) TO DISCUSS ANY PROPOSED MAJOR CHANGES TO SEDIMENT AND EROSION CONTROLS ON SITE PRIOR TO IMPLEMENTING THE CHANGES.
- THE SITE FOREMAN IS TO ENSURE CONTRACTOR'S ACCESS AND EXIT THE SITE USING ONLY ENVIRONMENT PROTECTION AUTHORITY APPROVED STABILISED ACCESS/EXIT POINTS AS DETAILED ON ENDORSED SEDIMENT AND EROSION CONTROL PLANS.

MAINTENANCE SCHEDULE

WEEKLY:

CHECK AND REINSTATE SILT CONTROL FENCES.

DAILY:

SWEEP AND REMOVE DIRT AND ANY OTHER BUILDING MATERIAL FROM GUTTERS, FOOTPATHS AND ROADWAYS ADJACENT TO THE SITE BY CLOSE OF BUSINESS AND PRIOR TO RAIN AND AS REQUIRED. ALL NECESSARY STEPS SHOULD BE TAKEN THAT ARE PRACTICAL AND REASONABLE TO MINIMISE DUST POLLUTION.

DURING/AFTER WET WEATHER:

LIMIT CONSTRUCTION VEHICLE ACCESS TO SITE DURING AND IMMEDIATELY FOLLOWING WET WEATHER CHECK AND REINSTATE SEDIMENT EROSION CONTROL MEASURES AND CHECK ROAD.

DUST MANAGEMENT

WHERE BUILDING WORK GENERATES DUST, ALL REASONABLE AND PRACTICABLE MEASURES SHOULD BE TAKEN TO MINIMISE THAT DUST.

THIS CAN OFTEN BE ACHIEVED BY

- RETAINING EXISTING VEGETATION WHERE POSSIBLE
- STRIPPING AREAS PROGRESSIVELY AND ONLY WHERE IT IS NECESSARY FOR WORKS TO OCCUR
- EMPLOYING STABILISING METHODS SUCH AS MATTING, GRASSING OR MULCH
- DAMPENING THE GROUND WITH A LIGHT WATER SPRAY (CONTACT THE ENVIRONMENT PROTECTION AUTHORITY FOR REQUIREMENTS DURING EXTREME DROUGHT CONDITIONS)
- ROUGHENING SURFACE OF EXPOSED SOIL
- COVERING STOCKPILES AND LOCATING THEM WHERE THEY ARE PROTECTED FROM THE WIND
- RESTRICTING VEHICLE MOVEMENTS
- COVERING THE LOAD WHEN TRANSPORTING MATERIAL
- CONSTRUCTING WIND BREAKS SUCH AS WIND FENCES IN ACCORDANCE WITH THE BLUE BOOK
- A WATER CART OR SUFFICIENT WATER SPRAYS SHALL BE MADE AVAILABLE AT ALL TIMES. IN ADVERSE CONDITIONS WHEN DUST CANNOT BE ADEQUATELY CONTROLLED WHEN WORKS ARE BEING UNDERTAKEN, WORKS WILL CEASE IN THESE AREAS UNTIL CONDITIONS IMPROVE;
- WATER SHALL BE APPLIED TO SUPPRESS DUST FROM OPEN EARTHWORKS AS WELL AS UNPROTECTED STOCKPILES
- AREAS OF COMPLETED EARTHWORKS SHALL BE PROGRESSIVELY REHABILITATED WITH DRYLAND GRASS AND FENCED OFF AS SOON AS PRACTICABLE TO PREVENT FURTHER EROSION
- THE CONTRACTOR SHALL CONTACT ICON WATER TO OBTAIN RECYCLED WATER FROM THE LOWER MOLONGLO
- THE CONTRACTOR IS TO CONTACT THE WATER RESOURCES UNIT TO OBTAIN AN EXEMPTION TO USE NON-POTABLE WATER FROM ON OR OFF THE SITE IF REQUIRED DURING WINDY CONDITIONS, THE CONTRACTOR IS TO MINIMISE DUST GENERATING ACTIVITIES AND REGULARLY APPLY DUST SUPPRESSING MEASURES. IF DUST SUPPRESSION MEASURES FAIL THE CONTRACTOR IS TO CEASE DUST GENERATING ACTIVITIES

DISPOSAL OF SPOIL

PRIOR TO ANY WORKS COMMENCING INVOLVING EXPORT OF SPOIL GREATER THAN 100m³, THE FOLLOWING INFORMATION **MUST** BE PROVIDED TO THE ENVIRONMENT PROTECTION AUTHORITY VIA EMAIL (environment.protection@act.gov.au):

- WHERE THE SPOIL WILL ORIGINATE FROM: WHO IS DISPOSING OF THE SPOIL: WHERE THE SPOIL WILL BE TAKEN: THE AMOUNT OF SPOIL TO BE TAKEN AWAY
- MOVEMENT DATES AND CONTACT DETAILS: DESCRIPTION OF THE TYPE OF SPOIL TAKEN AWAY. DETAILS OF HOW RECORDS WILL BE KEPT; AND
- TIME FRAME TO COMPLETE THE WORKS TO THE SATISFACTION OF THE ENVIRONMENT PROTECTION AUTHORITY.

SPOIL MAY BE TAKEN TO AN APPROVED LANDFILL SITE WITHOUT APPROVAL. IF THE SPOIL IS TO BE TAKEN TO AN AREA OTHER THAN APPROVED LANDFILL SITE, ENSURE THE ACCEPTOR OF THE SPOIL IS AWARE OF THE REQUIREMENTS SETOUT IN SECTION 8.2 OF THE ENVIRONMENT PROTECTION GUIDELINES FOR CONSTRUCTION AND LAND DEVELOPMENT IN THE ACT.

ON-SITE MANAGEMENT OF VERGES AND OPEN SPACE

1 GENERAL

- BEFORE COMMENCING WORKS, THE COORDINATOR SHALL ADVISE ASSET ACCEPTANCE (AA) IN WRITING THAT THE PROTECTIVE MEASURES HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED LANDSCAPE MANAGEMENT PROTECTION PLAN (LMPP). RANDOM AUDITS WILL BE UNDERTAKEN BY AA TO ENSURE COMPLIANCE. FAILURE TO COMPLY MAY INCUR THE ISSUE OF A STOP WORK NOTICE.
- ALL WORKS SHALL BE CONTAINED WITHIN THE AUTHORISED SITE EXCEPT FOR APPROVED SERVICE CONNECTIONS IN THE VERGE OR OTHER APPROVED EXCEPTIONS
- DURING THE PROGRESS OF THE WORKS ALL EXISTING VERGE GRASS COVER SHALL BE MAINTAINED IN ITS PRE-EXISTING CONDITION. PROTECTIVE MEASURES SHALL INCLUDE REGULAR WATERING TO MAINTAIN GRASS AND TREES IN GOOD CONDITION.
- WHERE THE SURFACE IS GRASS OR BARE SOIL WITHOUT TREES, NO PROTECTION IS REQUIRED. WHERE TOPSOIL AND GRASS OR OTHER APPROVED SURFACES, ARE INSTALLED AT THE COMPLETION OF THE WORKS IN ACCORDANCE WITH THE "STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS".

2 SUPERVISION

- FOR ALL WORKS, OTHER THAN MINOR WORKS (I.E. MINOR IN COMPLEXITY AND/OR SCOPE OF WORKS AND CONFIRMED AS MINOR WORKS BY AA), AND UNLESS OTHERWISE APPROVED BY AA, A SUITABLY QUALIFIED LANDSCAPE ARCHITECT OR HORTICULTURIST SHALL BE EMPLOYED TO ENSURE THAT THE WORK IN THE VERGE MEETS THE REQUIREMENTS. THE ARCHITECT/HORTICULTURIST SHALL ALSO BE PRESENT DURING ANY CULTIVATION OR RESTORATION OF THE VERGE WHICH AFFECTS PLANT MATERIAL AND SHALL PROVIDE CERTIFICATION, ENDORSED BY THE COORDINATOR, THAT ALL WORK, CULTIVATION AND RESTORATION HAVE BEEN PERFORMED TO INDUSTRY STANDARDS.

3 STORAGE OF CONSTRUCTION MATERIALS

- THE STORAGE OF CONSTRUCTION MATERIALS AND THE PARKING OF VEHICLES OR EQUIPMENT ON VERGES OR ADJACENT PUBLIC OPEN SPACES ARE NOT PERMITTED WITHOUT PRIOR APPROVAL FROM TCCS. WHERE THERE IS NO ALTERNATIVE AVAILABLE OTHER THAN TO USE THESE AREAS FOR STORAGE AND/OR PARKING, THE COORDINATOR MAY LODGE AN APPLICATION WITH THE LMPP REQUESTING APPROVAL FOR THE USE OF THESE AREAS FOR THE DESIGNATED PURPOSES. APPROVAL MAY BE GIVEN BY TCCS SUBJECT TO CERTAIN TERMS AND CONDITIONS OF USE.

4 SITE ACCOMMODATION

- GENERALLY, SITE SHEDS, STORAGE SHEDS, SITE AMENITIES OR BILLBOARDS ARE NOT TO BE ERRECTED ON VERGES OR PUBLIC OPEN SPACES WITHOUT PRIOR APPROVAL. SHOULD THERE BE NO ALTERNATIVE, THE COORDINATOR MAY LODGE AN APPLICATION WITH THE LMPP REQUESTING APPROVAL TO ERRECT SUCH A STRUCTURE ON THE AREA. THE ERECTION OF SITE ACCOMMODATION MAY BE APPROVED SUBJECT TO THE COORDINATOR'S AGREEMENT TO COMPLY WITH THE TERMS AND CONDITIONS SPECIFIED BY AA AND OBTAINING A PERMIT UNDER THE ROADS AND PUBLIC PLACES ACT 1937 FROM TCCS PCL.

5 PROTECTIVE FENCING

5.1 EXTENT

- ALL TEMPORARY PROTECTIVE FENCES ERRECTED TO PROTECT EXISTING ASSETS SHALL BE IN ACCORDANCE WITH THE APPROVED LMPP DRAWING. FENCING SHALL BE ERRECTED BEFORE THE COMMENCEMENT OF ANY SITE WORKS AND REMOVED AT THE COMPLETION OF ALL CONSTRUCTION ACTIVITY EXCEPT DURING VERGE RESTORATION. THE FENCE SHALL REMAIN IN PLACE THROUGHOUT THE CONSTRUCTION PERIOD.
- EXISTING TREES, PLANTINGS AND GRASS SHALL BE FENCED OFF TO ENCLOSE THE STREET VERGE, PUBLIC OPEN SPACE OR UNLEASED TERRITORY LAND AREA. UNLESS OTHERWISE APPROVED BY AA, PROTECTIVE FENCING SHALL BE LOCATED:
 - ALONG THE DRIP-LINE OF EACH TREE (AS A MINIMUM), AND
 - 1.2M FROM THE BACK OF THE KERB FOR THE FULL FRONTAGE OF THE LEASE, ALONG THE PROPERTY BOUNDARY AND ALONG THE APPROVED DRIVEWAY ACCESS TO ENSURE THAT THE VERGE IS COMPLETELY ENCLOSED

5.2 MATERIALS

- USE OF TEMPORARY 1800MM TALL CONTINUOUS MESH FENCING SUPPORTED BY STEEL POSTS WITH CONCRETE BASES, OR PREFABRICATED FENCING PANELS WITH CONCRETE BASES, IS MANDATORY. ANY VARIATION FROM THIS REQUIREMENT SHALL BE ACCOMPANIED BY WRITTEN APPROVAL FROM AA.

5.3 PEDESTRIAN AND TRAFFIC CONSIDERATIONS

- EXISTING VERGE FOOTPATHS SHALL BE MAINTAINED. ALL EXISTING VERGE FOOTPATHS AND DRIVEWAYS SHALL REMAIN UNOBSTRUCTED THROUGHOUT THE CONSTRUCTION PERIOD TO PROVIDE SAFE PEDESTRIAN MOVEMENT AT ALL TIMES UNLESS AN ALTERNATIVE IS APPROVED BY TCCS.
- WHERE A CONSTRUCTED FOOTPATH OR CYCLEWAY EXISTS WITHIN THE VERGE, PROTECTIVE FENCING INCLUDING THE CONCRETE PEDESTALS SHALL BE ERRECTED TO PROVIDE A CLEAR AND UNOBSTRUCTED SET BACK OF 0.6M FROM EACH SIDE OF THE FOOTPATH/CYCLEWAY IN ALL CASES TO ENSURE SAFE PASSAGE FOR CYCLISTS AND PEDESTRIANS.
- IF THERE IS NO CONSTRUCTED PUBLIC FOOTPATH ON THE VERGE A FENCED CLEARWAY OF 1.8M IN WIDTH SHALL BE MAINTAINED FOR THE ENTIRE FRONTAGE OF THE LEASE TO ALLOW FOR CYCLISTS AND PEDESTRIANS.
- ANY DEVIATIONS FROM THE DISTANCES SPECIFIED IN THIS CLAUSE DEEMED NECESSARY BECAUSE OF LOCAL RESTRAINTS REQUIRE PRIOR APPROVAL FROM AA.
- ACCESS GATES INTO THE SITE SHALL SWING INTO THE SITE AND NOT BE CAPABLE OF BLOCKING PEDESTRIAN ACCESS ALONG THE VERGE OR VEHICULAR TRAFFIC ON THE ROAD.

5.4 ACCESS FOR SERVICE INSTALLATIONS

- FENCING SHALL NOT BE REMOVED FOR SERVICE INSTALLATION ACROSS THE VERGE WITHOUT PRIOR APPROVAL FROM AA FOR THE SERVICE INSTALLATION.
- WHERE APPROVAL HAS BEEN GRANTED, THE FENCE SHALL BE REALIGNED TO PROVIDE A LANE FOR SERVICE TRENCHING BUT FENCES SHALL BE RE-ERECT TO ENCLOSE TREES BEFORE TRENCHING COMMENCES. UPON COMPLETION OF TRENCHING, THE FENCE SHALL BE RETURNED TO ITS ORIGINAL ALIGNMENT.

6 EXISTING TREES

6.1 GENERAL

- ALL TREES LOCATED IN THE ROAD RESERVE, VERGE, PUBLIC OPEN SPACE AND ON UNLEASED TERRITORY LAND, SHALL BE RETAINED AND MUST REMAIN UNDAAMAGED. THE LMPP PROCESS REQUIRES THE COORDINATOR TO IDENTIFY ANY TREES THAT MAY BE AFFECTED BY THE WORKS AND TO SUBMIT A REQUEST FOR APPROVAL TO PROCEED WITH THE WORK CLEARLY IDENTIFYING THE NATURE OF THE WORK AFFECTING THE TREE AND PROTECTIVE MEASURES PROPOSED TO MINIMISE DAMAGE TO THE TREE. WRITTEN AUTHORISATION FROM AA IS REQUIRED PRIOR TO ANY WORK AFFECTING THE TREE TAKING PLACE. AUTHORISATION WILL BE SUBJECT TO:
 - EXISTING CANOPY CLEARANCE NOT BEING ALTERED;
 - CROWNS AND APEX OF CANOPIES NOT BEING ALTERED OR REDUCED;
 - LIFTING EQUIPMENT AND LOAD CAPABLE OF OPERATING IN A MANNER THAT IT CLEARS THE HEIGHT AND WIDTH OF THE TREE CANOPY WITHOUT DAMAGING THE CROWN, AND
 - CONSTRUCTION EQUIPMENT CAN PASS BENEATH THE TREES' LOWEST LIMB THROUGH THE DESIGNATED DRIVEWAY ACCESS ROUTE.

6.2 TREE ROOT PROTECTION

- THE MAJORITY OF TREE ROOTS GROW IN THE TOP 300MM OF SOIL. THESE ARE THE FEEDER ROOTS, OFTEN VERY FINE ROOTS THAT PROVIDE THE TREE WITH WATER, OXYGEN AND NUTRIENTS. THESE ROOTS TYPICALLY GROW FROM THE TRUNK OF THE TREE TO WELL BEYOND ITS 'DRIP-LINE' (THE CANOPY EDGE).
- EXCAVATION WITHIN THE DRIP ZONE OF A TREE DOES CONSIDERABLE DAMAGE TO ITS ROOT SYSTEM. IT CAN AFFECT TREE STABILITY AND TREE HEALTH TO SUCH AN EXTENT THAT IT WILL LEAD TO THE DECLINE AND POSSIBLE DEATH OF THE TREE OVER A PERIOD OF YEARS.
- EXCAVATION THAT OCCURS WITHIN THE DRIP ZONE OF A TREE SHALL BE RESTRICTED TO ONE SIDE OF THE TREE ONLY AND SHALL HAVE PRIOR APPROVAL FROM AA.
- WHERE EXCAVATION IS APPROVED, THE FOLLOWING MEASURES SHALL BE ADOPTED FOR TREE PROTECTION:
 - DO NOT SEVER LARGE ROOTS (>30MM DIAMETER) CLOSER THAN HALFWAY FROM THE DRIP-LINE TO THE TRUNK;
 - LOCATE THESE ROOTS BY HAND TRENCHING TO A DEPTH OF 300MM BEFORE ANY MECHANICAL TRENCHING IS UNDERTAKEN;
 - CUT ALL ROOTS CLEANLY WITH EQUIPMENT SPECIFICALLY DESIGNED FOR THIS PURPOSE OR BY SUITABLE PRUNING EQUIPMENT;
 - PROTECT ROOTS EXPOSED FROM DESICCATION BY LIGHTLY WATERED OR COVERING WITH HESSIAN, WHICH MUST BE KEPT MOIST; AND
 - MAINTAIN THE GOOD HEALTH OF THE TREES THAT HAVE HAD DISTURBANCE IN THEIR ROOT ZONE BY CONTINUAL WATERING, AND AT NO TIME SHALL THE DISTURBED AREA BE ALLOWED TO DRY OUT TO THE DETRIMENT OF THE TREES HEALTH.

7 SITE ACCESS

- SITE ACCESS SHALL BE BY THE EXISTING DRIVEWAY ACCESS POINTS FOR THE WORKS.
- IN SOME CASES CONSIDERATION MAY BE GIVEN TO ALLOWING NEW ACCESS POINTS ACROSS PUBLIC LAND, HOWEVER, ALTERNATIVE OR ADDITIONAL ACCESS POINTS REQUIRE APPROVAL FROM AA. WHERE APPROVAL HAS BEEN GRANTED, THE SITE ACCESS SHALL BE POSITIONED MIDWAY BETWEEN TWO EXISTING TREE TRUNKS DEPENDANT ON THE DISTANCE BETWEEN TREES. ACCESS SHALL NOT OCCUR ON TWO SIDES OF A TREE WITHIN THE APPROVED CLEARANCE DIMENSION.
- CONSTRUCTION TECHNIQUE SHALL MINIMISE THE NEED FOR EXCAVATION ACROSS THE VERGE.
- ACCESS ACROSS ADJOINING PUBLIC OPEN SPACES, PARKS, RECREATIONAL RESERVES, ADJOINING PROPERTIES E.G. SCHOOL PLAYGROUNDS, COMMUNITY HALLS ETC, IS PROHIBITED WITHOUT PRIOR WRITTEN AUTHORISATION FROM TCCS, AND ANY OTHER ASSET OWNER WHERE APPLICABLE.

8 SERVICES AND UTILITIES

8.1 SERVICE CONNECTION TO SITE

- THE COORDINATOR SHALL COORDINATE AND COLLATE ALL APPROVALS FOR PROPOSED SERVICES WITHIN THE AREA.
- APPROVAL FOR TRENCH LOCATIONS AND EXCAVATIONS WITHIN THE VERGE SHALL BE OBTAINED THROUGH THE RELEVANT TCCS AGENCIES AT THE PLANNING AND DESIGN STAGES. APPROVAL IS SUBJECT TO THE FOLLOWING REQUIREMENTS:
 - IF THE PROPOSED EXCAVATION IS WITHIN THE CANOPY SPREAD OF ANY TREE, BORING OR TUNNELING BELOW THE ROOT ZONE MUST BE UNDERTAKEN;
 - SHARED TRENCHING FOR SERVICES IS MANDATORY;
 - THE NUMBER OF VERGE CROSSINGS SHALL BE MINIMISED;
 - EXCAVATION FOR SERVICES ACROSS VERGE (I.E. AT RIGHT ANGLES TO KERB OR PROPERTY LINE) SHALL BE MIDWAY BETWEEN THE TREE TRUNKS
 - ANY SERVICE INSTALLATION WITHIN 5.0M OF AN EXISTING TREE TRUNK, OR WITHIN THE TREE CANOPY, REQUIRES PRIOR APPROVAL.

8.2 SERVICES AND UTILITIES ALONG ROAD RESERVES

- THE COORDINATOR SHALL COORDINATE ALL SERVICE APPROVALS: APPROVAL BY AA FOR TRENCH LOCATIONS SHALL BE OBTAINED AS PART OF THE LMPP PROCESS.
- TO MINIMISE DAMAGE AND/OR DISTURBANCES TO THE ROOTS OR ROOT ZONE AND SUBJECT TO APPROVAL BY AA, ANY NEW OR UPGRADED SERVICES PARALLEL TO THE KERB OR PROPERTY LINE SHALL BE INSTALLED ON THE FOLLOWING ALIGNMENTS:
 - WITHIN ROAD PAVED AREA;
 - BELOW THE ROOT ZONE IF THE EXCAVATION REQUIRED IS WITHIN THE CANOPY SPREAD OF ANY TREE;
 - BELOW THE EXISTING FOOTPATH ON THE PROPERTY LINE, AND
 - IMMEDIATELY BEHIND THE KERB.

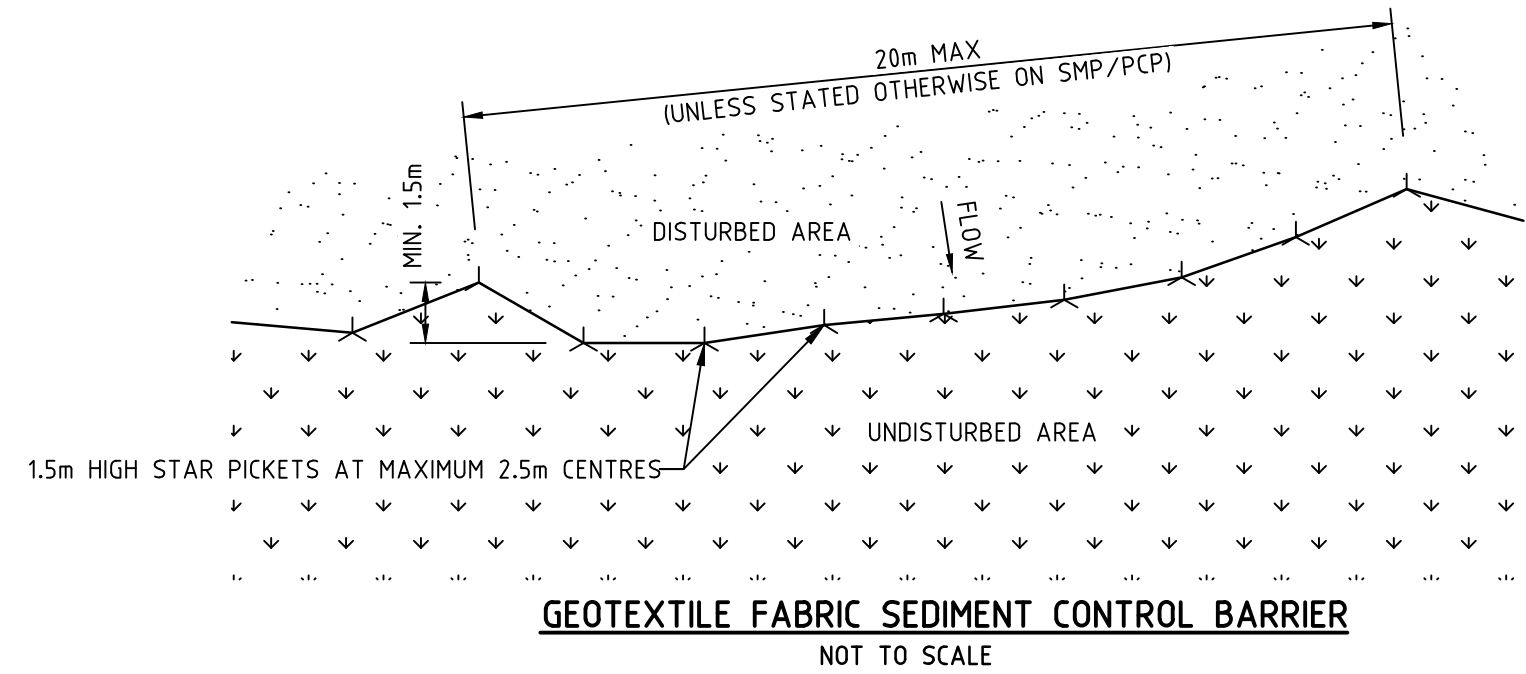
9 IRRIGATION

- PARKS CONSERVATION AND LANDS (PCL) ACTIVELY DISCOURAGES THE USE OF IN-GROUND IRRIGATION SYSTEMS AND GENERALLY DOES NOT ENDORSE THEIR INSTALLATION IN THE VERGE. HOWEVER, A SYSTEM OF QUICK-COUPERS AT THE LEASE EDGE OF THE VERGE MAY BE INSTALLED SUBJECT TO APPROVAL OF THE IRRIGATION PLAN BY PCL. A PREFERRED ALTERNATIVE IS THE PLANTING OF DROUGHT TOLERANT GRASSES AND SHRUBS THAT ARE NOT RELIANT ON WATERING TO SURVIVE.

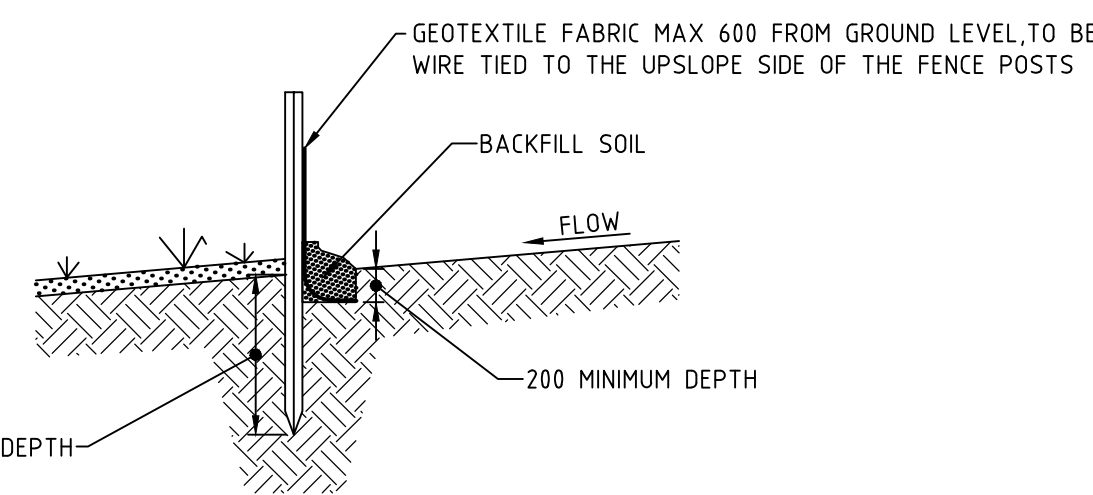
10 VERGE INFRASTRUCTURE CONDITION AND RESTORATION

- THE COORDINATOR SHALL NOTIFY AA AT THE COMPLETION OF WORK AND OBTAIN APPROVAL PRIOR TO COMMENCEMENT OF ANY VERGE RESTORATION. DURING VERGE RESTORATION, TOPSOIL SHALL NOT BE REMOVED AND THE SOIL LEVEL SHALL NOT BE CHANGED WITHIN THE DRIP ZONE OF TREES OR AS OTHERWISE APPROVED AND, UPON COMPLETION OF THE WORKS, VERGES SHALL HAVE ESTABLISHED APPROPRIATE GRASS COVER AS APPROVED BY PCL, E.G. DRYLAND GRASS, NATIVE GRASS OR COUCH.
- IF THE STANDARD OF GRASS COVER ON THE VERGE NEEDS TO BE IMPROVED, THE FOLLOWING REQUIREMENTS SHALL APPLY:
 - WITHIN THE ROOT ZONE OF TREES, LIGHTLY CULTIVATE THE SOIL IN ONE DIRECTION ONLY TO BETWEEN 25MM TO 50MM DEPTH (50MM MAXIMUM TO MINIMISE DAMAGE TO TREE ROOTS), AVOID MAJOR ROOTS AND KEEP A MINIMUM OF 1M AWAY FROM TREE TRUNKS;
 - OUTSIDE THE ROOT ZONE OF TREES NORMAL CULTIVATION PRACTICE APPLIES;
 - ADD 8 TYPIC TOPSOIL AT 25MM TO 50MM DEPTH. LEVEL THE TOPSOIL AND ADD NPK FERTILISER (EQUIVALENT TO MULTIGRO) AT 40G/M² AND
 - LAY TURF OR SOW SEED OF SUITABLE DROUGHT TOLERANT SPECIES AS SPECIFIED IN THE STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS. KEEP MOIST DURING ESTABLISHMENT.

ALL RESTORATION WORK SHALL BE APPROVED BY AA AND CARRIED OUT BY APPROVED OPERATORS.



GEOTEXTILE FABRIC SEDIMENT CONTROL BARRIER
NOT TO SCALE



GEOTEXTILE FABRIC SEDIMENT CONTROL BARRIER SECTION
NOT TO SCALE

FOR DESIGN ACCEPTANCE REVISED FOR WORKS APPROVAL FOR DESIGN ACCEPTANCE REVISED FOR WORKS APPROVAL FOR WORKS APPROVAL FOR REVIEW ISSUE DESCRIPTION		01.02.19 22.05.18 29.03.18 05.10.17 04.08.17 21.07.17	DA TI RT NS AM NS	CLIENT DR JACOB MICHELSEN	ARCHITECT TURCO AND ASSOCIATES	STRUCTURAL CIVIL HYDRAULIC canberra sydney brisbane 02 6201 0200 www.sellickconsultants.com.au	PROJECT TITLE PIALLIGO VILLAGE AND ANIMAL REFERENCE HOSPITAL	DESIGNED BY AM CHECKED BY CO AUTHORISED BY DATE 01/02/2019	DRAWING TITLE SITE ESTABLISHMENT NOTES & DETAILS	SCALE	PROJECT LOCATION BLOCK 17 SECTION 2 PIALLIGO, ACT	JOB NO. 161310	DRAWING NO. C103	REV. F
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BULK EARTHWORKS VOLUMES

CUT: 1,665 m³
 FILL: 1,450 m³

NOTE:

- ALL BULK VOLUMES ARE SOLID VOLUMES AND DO NOT INCLUDE BULKING FACTORS OR TOPSOIL ALLOWANCE.
- REFER TO DRAWING C101 FOR LANDSCAPE MANAGEMENT AND PROTECTION PLAN
- REFER TO DRAWING C102 FOR CONCEPTUAL POLLUTION CONTROL PLAN
- REFER TO ARCHITECTURAL DRAWINGS FOR SETOUT.
- ALL EARTHWORKS TO BE UNDERTAKEN IN ACCORDANCE WITH AUSTRALIAN STANDARD AS3798 WITH MINIMUM COMPACTION OF 95% MMD TO ALL BUILDING PLATFORMS AND ROAD WORKS
- CONTRACTOR TO PROVIDE LEVEL 1 CERTIFICATION OF FILL BY SUITABLY QUALIFIED GEOTECHNICAL ENGINEER.
- CONTRACTOR TO CONFIRM ALL BULK LEVELS PRIOR TO COMMENCEMENT OF EARTHWORKS

BULK EARTHWORK NOTES

STRIPPING

1. SITE SHOULD BE STRIPPED AND REINSTATED PROGRESSIVELY AS REQUIRED (MINIMISE EXPOSED SURFACES).
2. STRIP ALL GRASS COVER AND TOP SOIL TO EXPOSE UNDERLYING SOIL IN AREAS TO BE REGRADED.
3. TOP SOIL TO BE STOCKPILED FOR FUTURE USE IN LANDSCAPING.

FILL PLATFORMS

1. FOR STRIPPED SLOPES STEEPER THAN 12.5% OVER WHICH FILL PLATFORMS ARE TO BE CONSTRUCTED, PROVIDE BENCHING OF NOT MORE THAN 300mm DEPTH
2. FILL IS TO BE PLACED AND COMPACTED IN LEVEL 150MM LAYERS MAXIMUM COMPACTED THICKNESS.
3. STRUCTURAL FILL PLATFORMS TO BE COMPACTED TO 95% STANDARD DRY DENSITY (90% MMD). NON STRUCTURAL PLATFORMS TO BE COMPACTED TO 90% STANDARD DRY DENSITY.
4. FILL MATERIAL TO BE FREE OF ORGANICS, BUILDERS DEBRIS, OTHER DELETERIOUS MATERIAL AND SILT. MATERIAL TO BE UNIFORM MOISTURE CONDITION PRIOR TO PLACEMENT AND COMPACTION.
5. MAX ROCK FRAGMENT SIZE TO BE 75MM DIAMETER WITHIN FILL MATERIAL.
6. FILL PLATFORMS TO BE CONSTRUCTED WITH 1 VERTICAL TO 3 HORIZONTAL BATTER UNLESS SPECIFIED OTHERWISE.
7. TERRACED CUT AND FILL AREAS ARE TO BE CONSTRUCTED FROM LOWER LEVEL TO UPPER LEVEL WITH OVER FILLING, FOLLOWED BY CUTTING BACK AS NECESSARY.
8. ALL FILL SURFACES TO BE SHAPED TO PROVIDE DRAINAGE AND PREVENT PONDING OF SURFACE WATER.

CUT PLATFORMS

1. CUT FACES WITHIN SITE LESS THAN 2.5M IN HEIGHT TO BE VERTICAL IN ACCORDANCE WITH GEOTECHNICAL REPORT. BATTER BACK TOP 0.5m AT 1 VERTICAL TO 1 HORIZONTAL. CUT FACES ALONG BOUNDARY TO BE 1 VERTICAL TO 1 HORIZONTAL UNLESS SHORING IS PROVIDED.
2. CUT FACES GREATER THAN 2.5M IN HEIGHT TO HAVE PORTION ABOVE 2.5M BATTERED BACK AT 1 VERTICAL TO 2 HORIZONTAL.
3. CUT PLATFORMS TO BE PROOF ROLLED. CUT PLATFORMS TO BE SHAPED TO PROVIDE DRAINAGE AND PREVENT PONDING OF SURFACE WATER. CUT FACES ALONG BOUNDARY TO BE 1 VERTICAL TO 1 HORIZONTAL.

TESTING

1. TESTING TO BE CARRIED OUT IN ACCORDANCE WITH AS3798 BY NATA REGISTERED LABORATORY.
2. TESTING TO BE UNDERTAKEN PROGRESSIVELY THROUGHOUT BULK EARTHWORKS.
3. TESTING TO BE DISTRIBUTED UNIFORMLY THROUGHOUT DEVELOPMENT ALLOW 1 TEST PER 50m³ FILL.
4. ANY PLATFORMS NOT ACHIEVING MINIMUM TEST RESULTS ARE TO BE STRIPPED BACK, RE-COMPACTED, AND RE-TESTED UNTIL REQUIRED COMPACTION LEVELS ACHIEVED.

Surface Analysis: Elevation Ranges

Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1	Red	-2.000	-1.500
2	Red	-1.500	-1.000
3	Red	-1.000	-0.500
4	Red	-0.500	0.000
5	Light Green	0.000	0.500
6	Light Green	0.500	1.000
7	Light Green	1.000	1.500
8	Light Green	1.500	2.000

ISSUE	DESCRIPTION	DATE	DRAWN
1	FOR DESIGN ACCEPTANCE	01.02.19	DA
2	REVISED FOR WORKS APPROVAL	22.05.18	TI
3	FOR DESIGN ACCEPTANCE	29.03.18	RT
4	REVISED FOR WORKS APPROVAL	05.10.17	NS
5	FOR WORKS APPROVAL	21.08.17	AM

CLIENT
DR JACOB MICHELSEN

ARCHITECT
TURCO AND ASSOCIATES



PROJECT TITLE
PIALLIGO VILLAGE AND ANIMAL REFERENCE HOSPITAL

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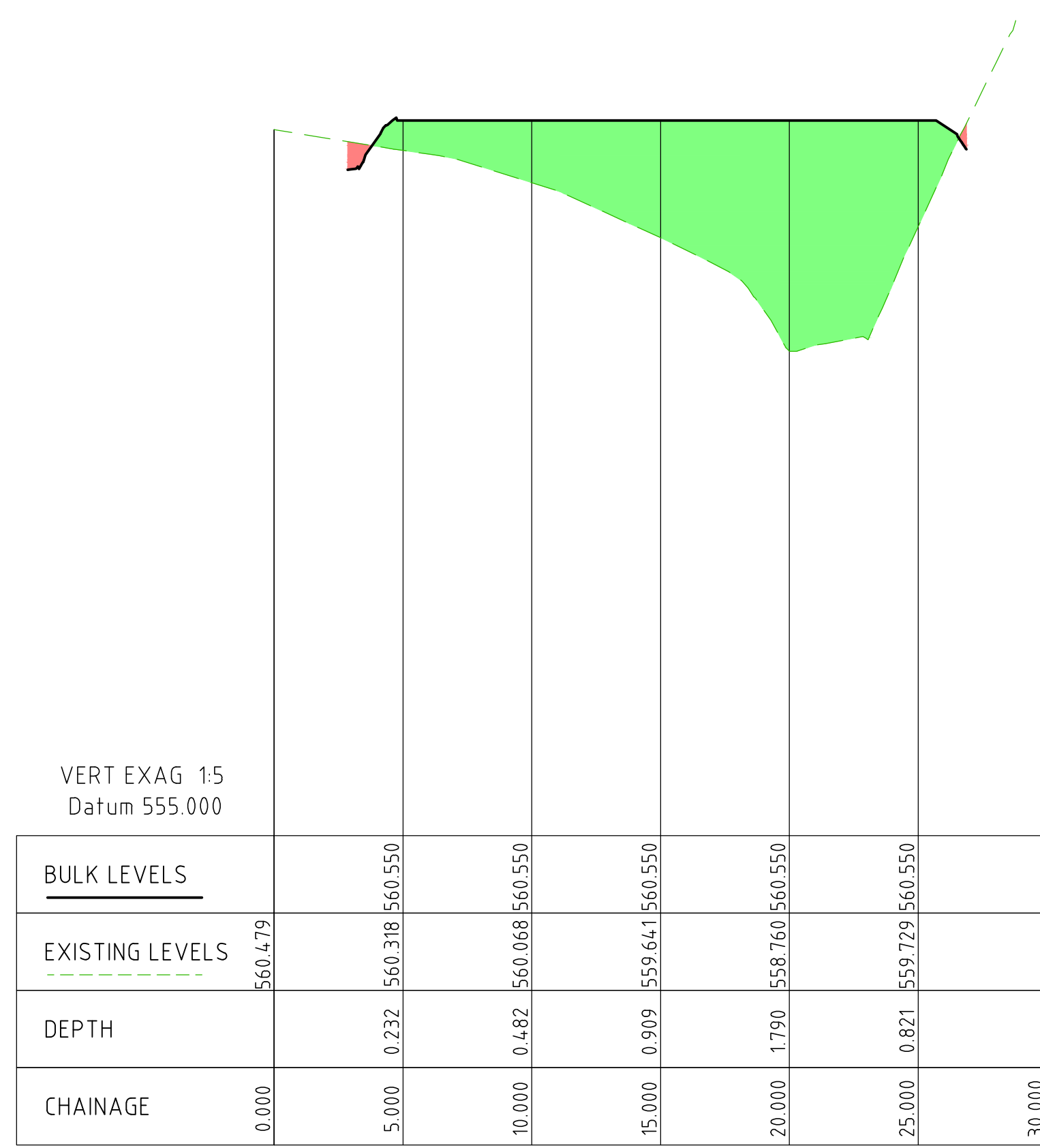
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 01/02/2019

DRAWING TITLE
BULK EARTHWORKS PLAN

PROJECT LOCATION
**BLOCK 17 SECTION 2
 PIALLIGO, ACT**

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CL-3 LONG SECTION

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BULK EARTHWORKS SECTIONS SHEET 2

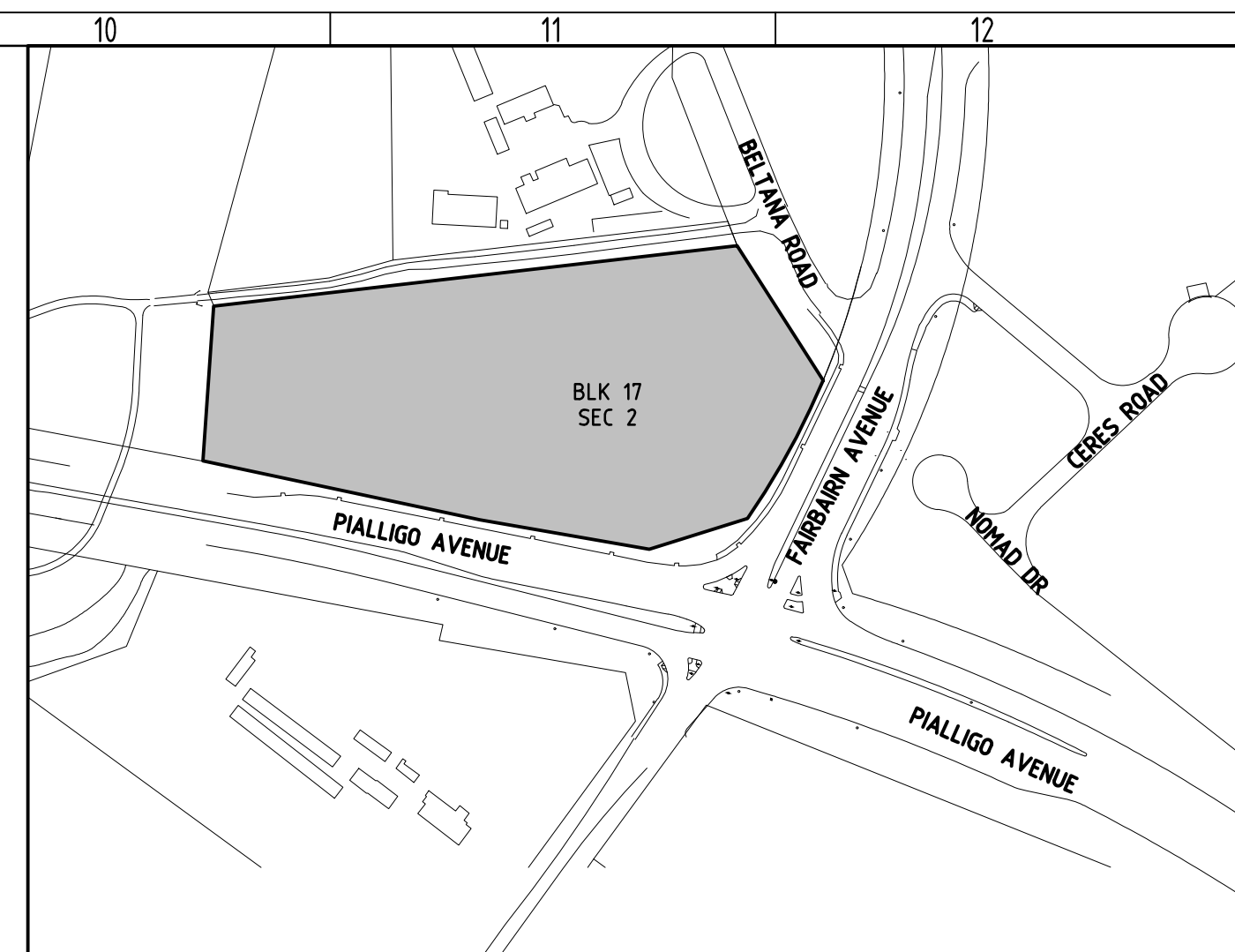
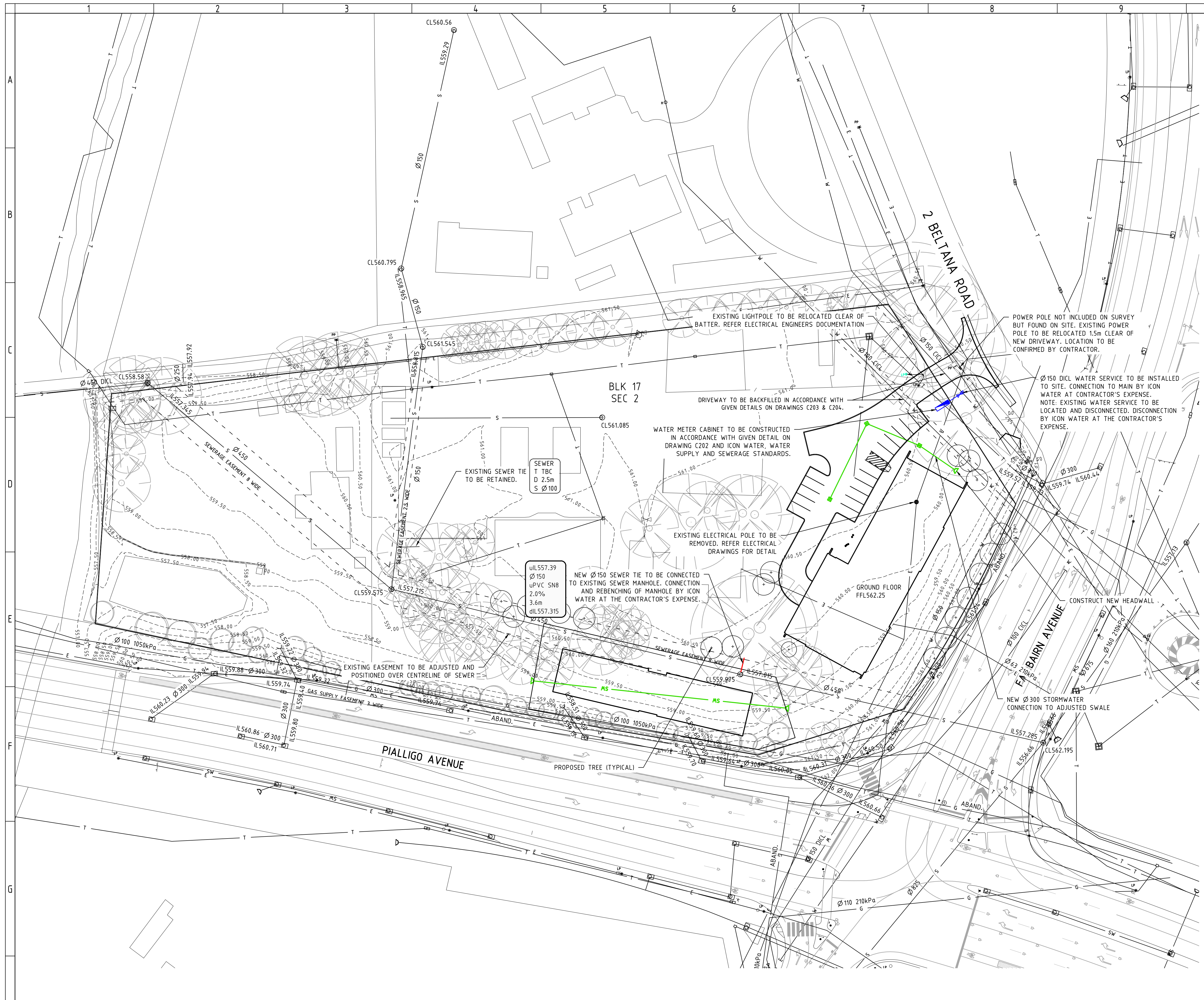
PROJECT LOCATION
BLOCK 17 SECTION 2
PIALLIGO, ACT

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1:500 @A1 1:1000 @A3

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161310

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LOCALITY PLAN
NOT TO SCALE

SERVICE STRUCTURES

EXISTING	PROPOSED
[Symbol]	SEWER
[Symbol]	ENDCAP
[Symbol]	MANHOLE
[Symbol]	STORMWATER
[Symbol]	ENDCAP
[Symbol]	MANHOLE
[Symbol]	GRATED PIT
[Symbol]	KERB INLET SUMP
[Symbol]	QS TYPE SUMP
[Symbol]	R TYPE SUMP
[Symbol]	HEADWALL
[Symbol]	WATER
[Symbol]	HYDRANT
[Symbol]	WATER METER
[Symbol]	STOP VALVE
[Symbol]	THRUST BLOCK
[Symbol]	ELECTRICAL
[Symbol]	LIGHT POLE
[Symbol]	PILLAR BOX
[Symbol]	SUBSTATION
[Symbol]	POWER POLE
[Symbol]	COMMUNICATIONS
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[Symbol]	PITS
[Symbol]	GAS
[Symbol]	MARKER PLATE
[Symbol]	OUTLET
[Symbol]	PIT
[Symbol]	VALVE

SERVICE LINES

EXISTING	PROPOSED
[Symbol]	S SEWER
[Symbol]	SW STORMWATER
[Symbol]	SSD SUBSOIL DRAINAGE
[Symbol]	W WATER
[Symbol]	E ELECTRICAL
[Symbol]	T COMMUNICATIONS
[Symbol]	G GAS
[Symbol]	PROPOSED
[Symbol]	S SEWER
[Symbol]	SW STORMWATER
[Symbol]	SSD SUBSOIL DRAINAGE
[Symbol]	W WATER
[Symbol]	E ELECTRICAL
[Symbol]	T COMMUNICATIONS
[Symbol]	G GAS
[Symbol]	EXHUME

REFERENCE

- FOR GENERAL AND UTILITIES NOTES REFER DRAWING C003

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EXTERNAL SERVICES PLAN

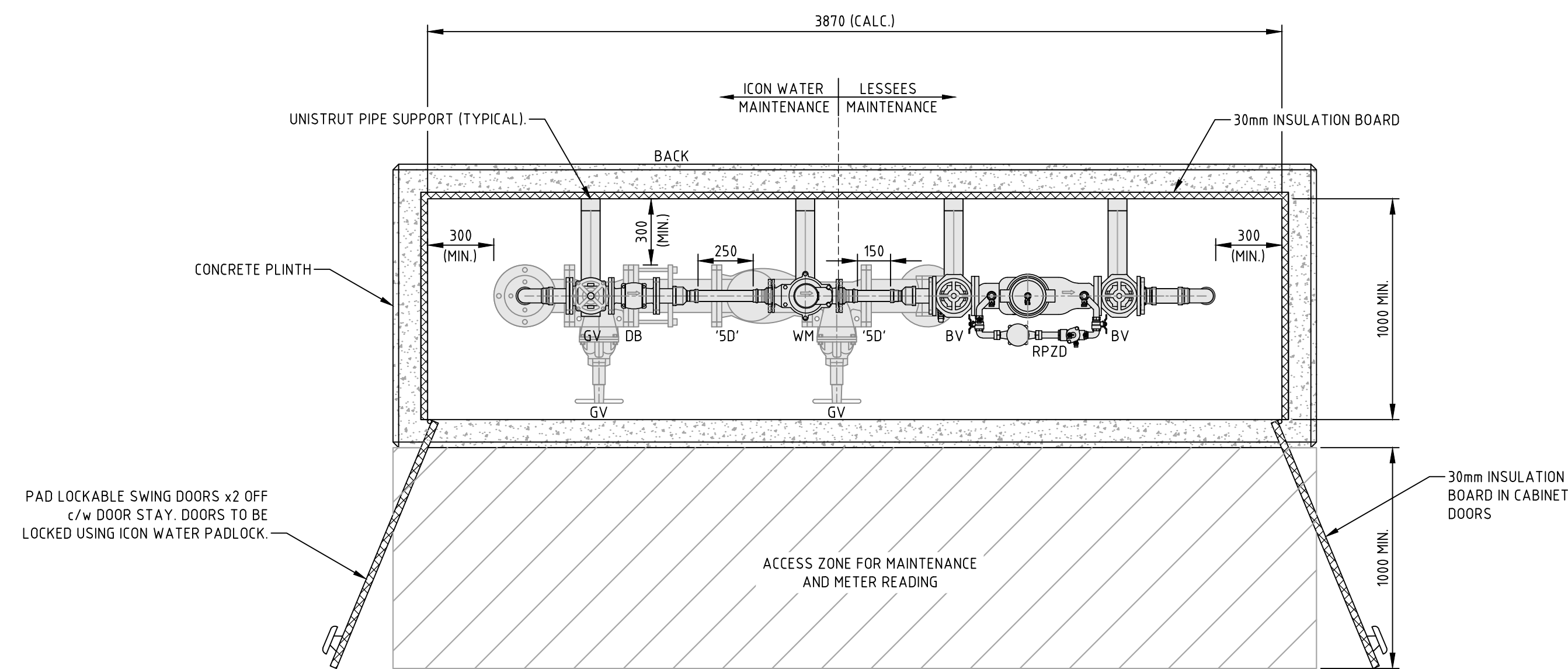
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BLOCK 17 SECTION 2 PIALIGO, ACT

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JOB NO.
161310

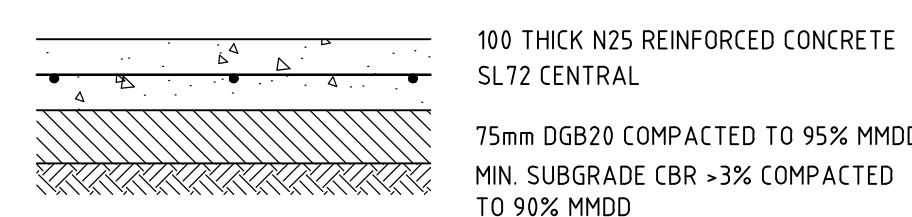
DRAWING NO.
C201

REV.
F



SECTION PLAN A
1:20

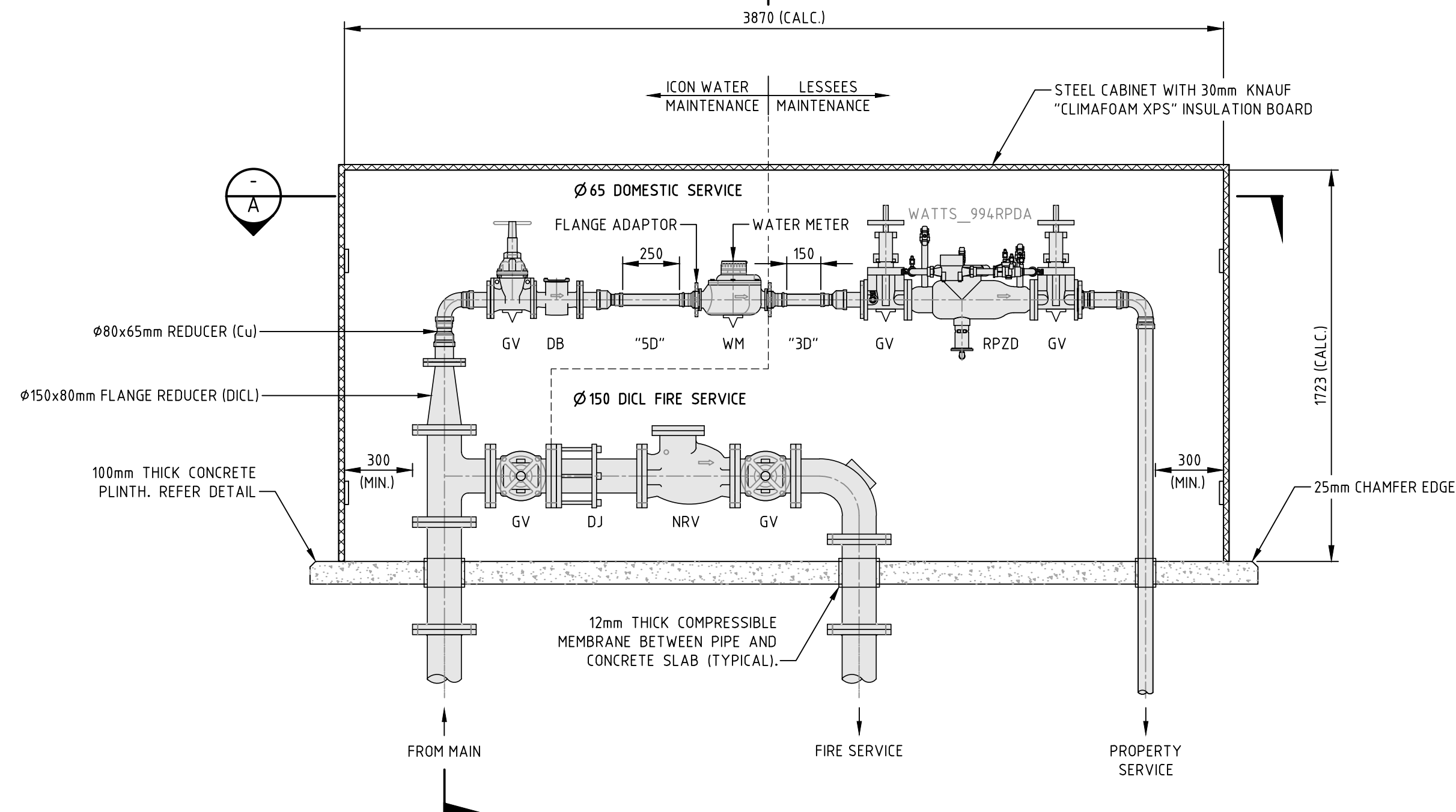
- LEGEND**
- BV BALL VALVE
 - DB DIRT BOX
 - DJ DISMANTLING JOINT
 - GV GATE VALVE
 - NRV NON RETURN VALVE
 - PLV PRESSURE LIMITING VALVE
 - PRV PRESSURE REDUCING VALVE
 - RD REDUCER
 - RPZD REDUCED PRESSURE ZONE DEVICE
 - SC STOP COCK
 - ST IN-LINE STRAINER
 - SV STOP VALVE
 - TB CONCRETE THRUST BLOCK (TO ICON WATER STANDARDS)
 - TDCV TESTABLE DOUBLE CHECK VALVE
 - WM WATER METER TO ICON WATER REQUIREMENTS
 - "3D" LENGTH OF PIPING 3xφ
 - "5D" LENGTH OF PIPING 5xφ



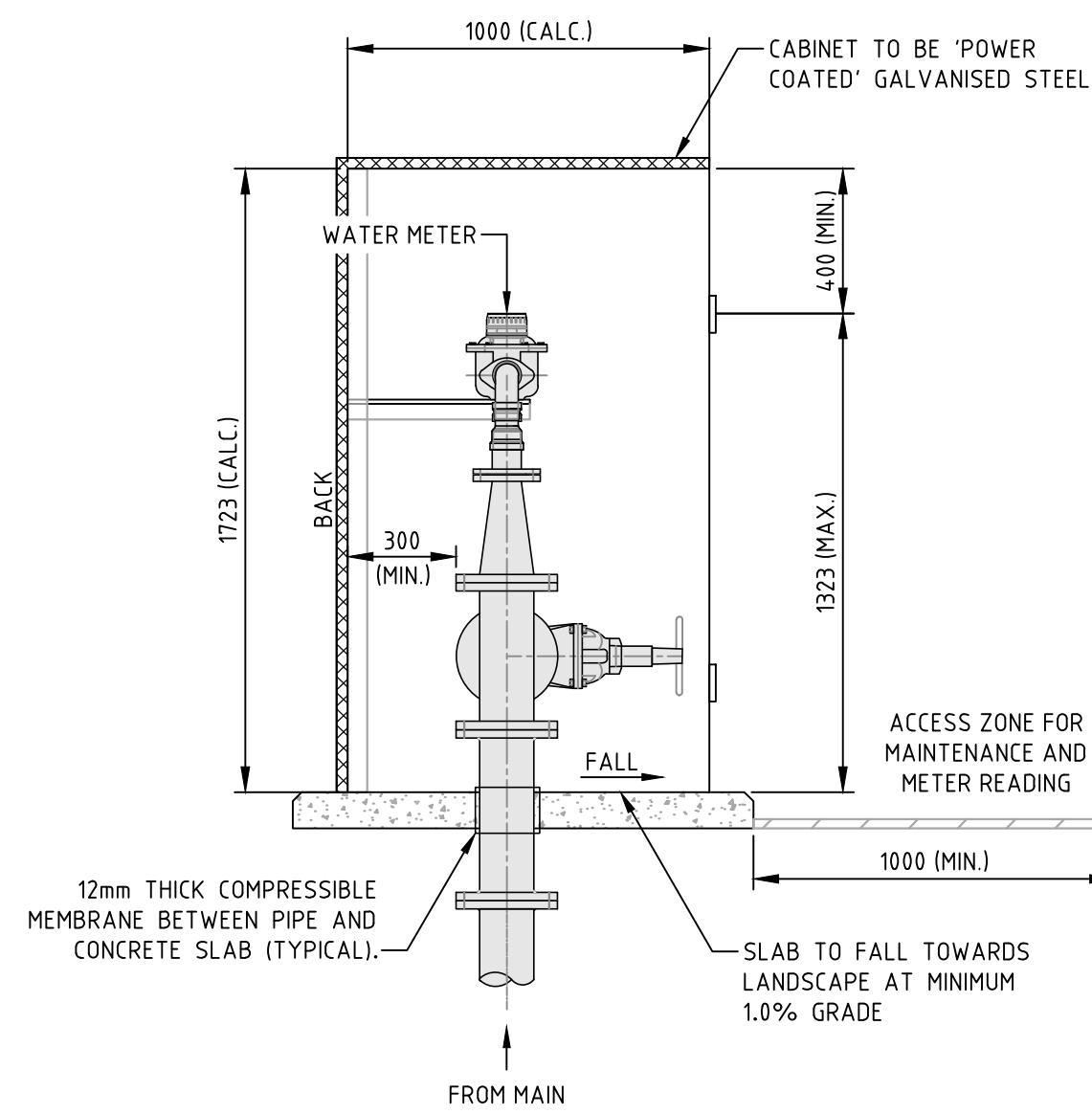
CONCRETE PLINTH DETAIL
NOT TO SCALE

WATER METER NOTES

1. CLEARANCES FROM ELECTRICAL SERVICES TO BE 600mm MINIMUM HORIZONTAL ALLY.
2. FOR NON-METALLIC PIPE, 1mm PVC COATED TRACER WIRE IS TO BE TAPED TO THE PIPE AND WOUND 3 TIMES AROUND THE COPPER RISER. THEN ATTACHED BENEATH THE METER BALL VALVE USING A COPPER OR BRASS CLAMP. AT THE WATER MAIN A BARBED AND TWISTED TRACER WIRER CONNECTION IS TO BE MADE WITH THE WATER MAIN. TRACE WIRE ON NONMETALLIC MAINS, OR ON TO THE MAINS COCK ON METALLIC MAINS. ELECTRICAL CONDUCTIVITY MUST BE TESTED ENSURING LOCATION OF NONMETALLIC SERVICES USING A METAL DETECTOR.
3. MARKING TAPE TO AS2648 TO BE LAID 150mm ABOVE THE WATER SERVICE AND BROUGHT TO THE SURFACE AND TIED BELOW THE METER BALL VALVE.
4. BEFORE WATER IS DRAWN FROM THE NETWORK, THE WATER METER ASSEMBLY IS TO BE INSTALLED BY A LICENSED PLUMBER AND TESTED AT 14.00kPa FOR 30 MINUTES WITH ZERO LOSS.
5. THE OWNER IS TO SAFE GUARD THE WATER METER ENSURING UNOBSTRUCTED ACCESS AND HAVE AT LEAST 1 METRE CLARENCE FROM DRIVEWAYS, STRUCTURES, WALLS AND FENCING.
6. ANY FENCE FOOTINGS SHALL INCORPORATE A SUITABLY SIZED CONDUIT AROUND THE WATER SERVICE.
7. WHERE MAINS PRESSURE IS >500kPa THE INSTALLATION OF A 500kPa PRESSURE LIMITING VALVE MUST COMPLY WITH EPD PLUMBING NOTE 23 AND AS3500.
8. WHERE A BUILDING IS TO BE INSTALLED WITH ONE OR MORE FIRE HOSE REELS, THE MINIMUM DIAMETER OF THE WATER SERVICE IS TO BE 25mm. ALL BASEMENT AND GROUND FLOOR FIRE HOSE REELS MUST BE CONNECTED TO THE METERED SERVICE.
9. ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE.
10. A SUPPORT BEAM IS TO BE INSTALLED IF A SPAN OF A WATER METER PIT EXCEEDS 1.2m. REFER ICON WATER STANDARDS.
11. ALL VALVES TO BE LEFT TURNING ONLY ON ICON WATER MAINS IN GROUND. VALVES IN METER PIT TO BE CLOCKWISE.
12. METER PIT ACCESS TO BE IN ACCORDANCE WITH AS1657-2013 INCLUSIVE OF MATERIALS AND FIXINGS.
13. HARDSTAND AREA AROUND PIT TO BE LEVEL AND MADE OF CONCRETE OR COMPACTED ROAD BASE IN ACCORDANCE WITH ICON WATER STANDARD DRAWINGS.
14. WATER METER CABINET COLOUR TO BE "ENVIRONMENTAL GREEN" AS PER ICON WATER STANDARDS UNLESS THE PROJECT ARCHITECT SPECIFIES OTHERWISE. REFER TO ARCHITECTURAL DRAWINGS/SPECIFICATION FOR CONFIRMATION.
15. ALL FIRE SERVICE VALVES TO BE LOCKED IN THE OPEN POSITION.
16. ALL VALVES TO BE LEFT TURNING ONLY FOR ICON WATER MAINS. DOMESTIC SERVICE VALVES TO BE CLOCKWISE TURNING.
17. PRESSURE REDUCING VALVE (PRV) IS TO REMAIN WET.



FRONT ELEVATION
(DOORS OMITTED FOR CLARITY)



SECTION B
1:20

ISSUE	DESCRIPTION	DATE	DRAWN
1	FOR DESIGN ACCEPTANCE	01.02.19	DA
2	REVISED FOR WORKS APPROVAL	22.05.18	TI
3	FOR DESIGN ACCEPTANCE	29.03.18	RT
4	REVISED FOR WORKS APPROVAL	05.10.17	NS
5	FOR WORKS APPROVAL	04.08.17	AM

CLIENT DR JACOB MICHELSEN	ARCHITECT TURCO AND ASSOCIATES
-------------------------------------	--

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PROJECT TITLE
PIALLIGO VILLAGE AND ANIMAL REFERENCE HOSPITAL

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DESIGNED BY AM
CHECKED BY CO
AUTHORISED BY
DATE 01/02/2019

DRAWING TITLE
WATER METER CABINET DETAIL

PROJECT LOCATION
BLOCK 17 SECTION 2 PIALLIGO, ACT

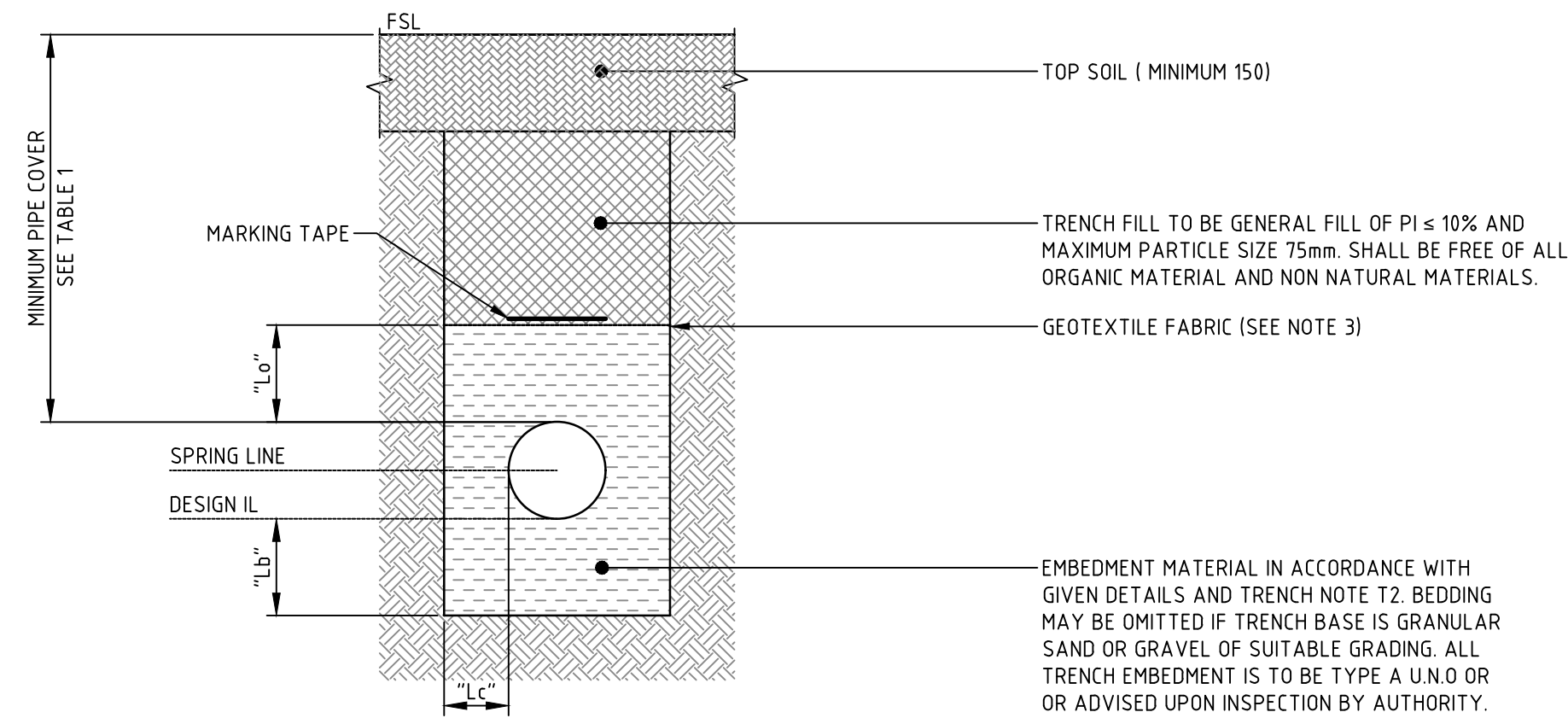
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JOB NO.
161310

DRAWING NO. REV.
C202 E

MINIMUM COMPACTION OF EMBEDMENT					
MATERIAL TYPE	TEST METHOD	MINIMUM VALUE (%)			
		TRAFFICABLE AREAS		NON-TRAFFICABLE AREAS	
		EMBEDMENT	TRENCH/ EMBANKMENT FILL	EMBEDMENT	TRENCH/ EMBANKMENT FILL
COHESIONLESS (c3)	DENSITY INDEX (I _p) AS 1289.5.6.1	FLEXIBLE PIPES: 70 (NOTE C1) RIGID PIPE 70 (c1 AND c4)	70 (c2)	60	60
COHESION	DRY DENSITY RATIO (R _d) TO AS 1289.5.4.1 & HLF DENSITY (c3) TO AS 1289.5.7.1	FLEX PIPES: 95 RIGID PIPES: 95	95	90	90

- c1. SINGLE SIZE COARSE AGGREGATES
- c2. THE ROAD OWNER (e.g. TCCS) MAY SPECIFY ALTERNATIVE VALUES.
- c3. GRADED GRAVELS AND SANDS HAVING FINES (SILTS AND CLAYS) GREATER THAN 5% TO HAVE THEIR COMPACTION DETERMINED BY THE DRY DENSITY RATIO TEST METHOD.
- c4. INCREASE PIPE CLASS TO AVOID USING SUPPORT TYPE BETTER THAN HS2 FOR GREATER BURIED DEPTH/ COVER.



NON TRAFFICABLE AREAS INCLUDE:

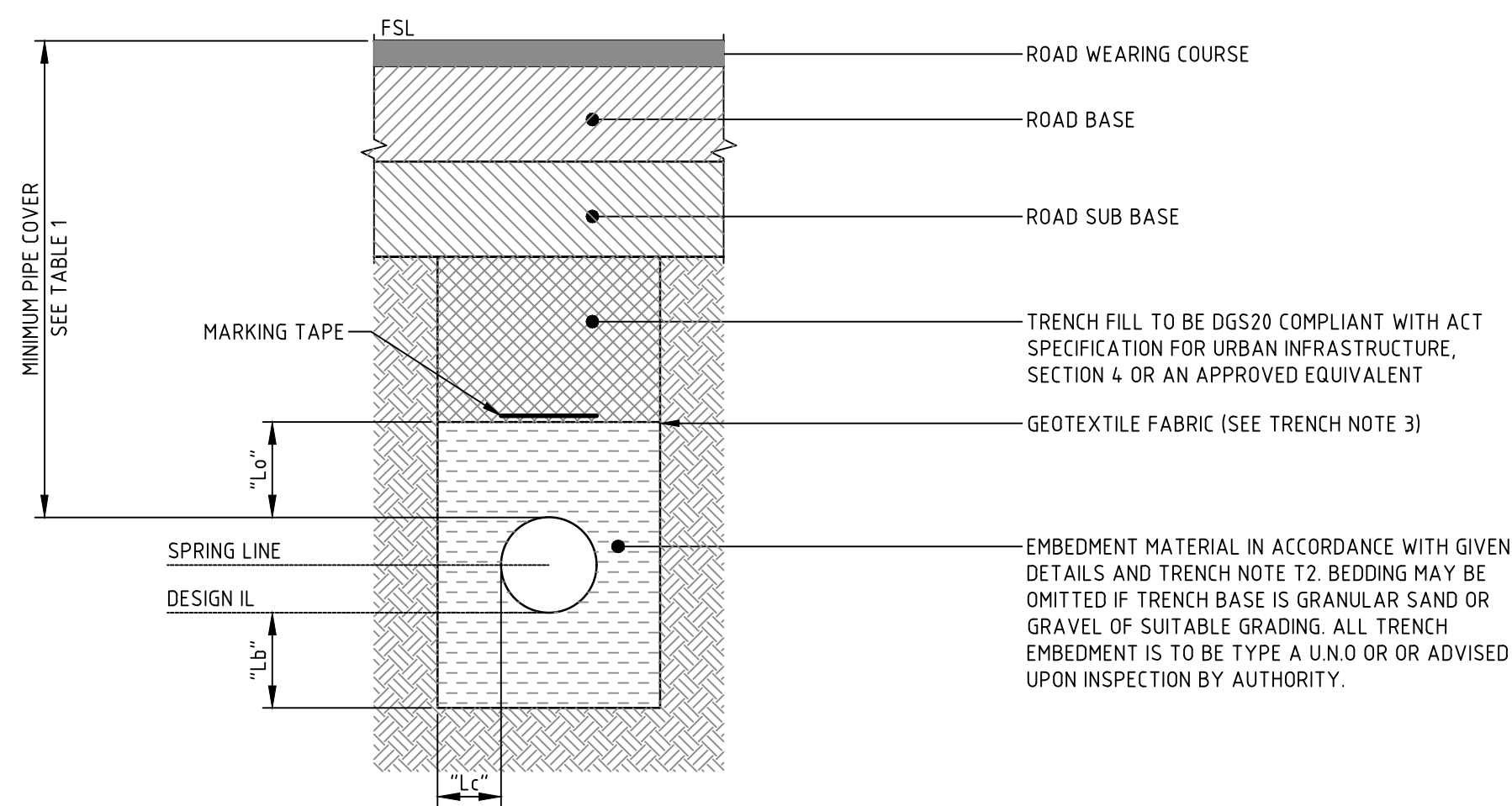
1. INCLUDE LOCATIONS WHERE OCCASIONAL VEHICLE LOADING OCCURS SUCH AS RESERVES, VERGES OUTSIDE THE TRAFFICABLE AREA.

TRENCH NOTES

- T1. COMPACT AND EVENLY GRADE TRENCH FLOOR.
- T2. EMBEDMENT, TRENCH FILL AND COMPACTION TO MEET THE REQUIREMENTS OF DESIGN DRAWINGS AND WSA 02 2014 V3.1 FOR SEWER AND WSA 03 FOR WATER AS AMENDED BY ICON WATER SUPPLEMENTS STD-SPE-G-011 AND 012 RESPECTIVELY.
- T3. USE GEOTEXTILE FILTER FABRIC WHERE SPECIFIED.
- T4. SIDES OF EXCAVATION TO BE KEPT VERTICAL TO AT LEAST 150 ABOVE PIPE.
- T5. ALL TRENCH EMBEDMENT IS TO BE TYPE A U.N.O OR ADVISED UPON INSPECTION BY AUTHORITY.

TRENCH DETAILS / NON TRAFFICABLE AREAS BENEATH RESERVES AND VERGES

SCALE 1:10



TRAFFICABLE AREAS INCLUDE:

1. THE FULL WIDTH OF ANY EXISTING OR PROPOSED ROAD CARRIAGEWAY PLUS SHOULDERS AND EXTENDING TO 1.0m BEYOND THE SHOULDERS AND KERBS.
2. THE FULL WIDTH OF ANY PROPERTY ACCESS DRIVEWAYS AND EXTENDING 1.0m EITHER SIDE.
3. THE FULL LENGTH OF ANY CONSTRUCTION FOOTPATH INCLUDING, BUT NOT LIMITED TO, CONCRETE, ASPHALT AND CRUSHED ROCK PAVEMENTS.
4. THE FULL WIDTH OF ANY MEDIAN STRIP.
5. ANY OTHER AREA SUBJECT TO VEHICULAR TRAFFIC.

TRENCH NOTES

- T1. COMPACT AND EVENLY GRADE TRENCH FLOOR.
- T2. EMBEDMENT, TRENCH FILL AND COMPACTION TO MEET THE REQUIREMENTS OF DESIGN DRAWINGS AND WSA 02 2014 V3.1 FOR SEWER AND WSA 03 FOR WATER AS AMENDED BY ICON WATER SUPPLEMENTS STD-SPE-G-011 AND 012 RESPECTIVELY.
- T3. USE GEOTEXTILE FILTER FABRIC WHERE SPECIFIED.
- T4. SIDES OF EXCAVATION TO BE KEPT VERTICAL TO AT LEAST 150 ABOVE PIPE.
- T5. ALL TRENCH EMBEDMENT IS TO BE TYPE A U.N.O OR ADVISED UPON INSPECTION BY AUTHORITY.

TRENCH DETAILS / TRAFFICABLE AREAS BENEATH ROADS, DRIVEWAYS AND PATHS

SCALE 1:10

TABLE 1: MINIMUM PIPE COVER		
LOCATION	GRAVITY SEWER	WATER
PUBLIC AND PRIVATE BLOCKS, NOT SUBJECT TO VEHICULAR LOADING.	600 - NEW DEVELOPMENTS 450 - EXISTING DEVELOPMENT	450#
PRIVATE BLOCKS ZONED RESIDENTIAL, SUBJECT TO VEHICULAR LOADING.	750	450#
FOOTPATHS, NATURE STRIPS, INDUSTRIAL AND COMMERCIAL BLOCKS, SEALED ROADS PAVEMENTS OTHER THAN MAJOR ROADS SUBJECT TO VEHICULAR LOADING.	900	600
UNSEALED AND MAJOR ROADS.	1200	750
FUTURE ROAD, RAIL AND TRAM PAVEMENTS.	1200	1200

WHERE MINIMUM COVER CANNOT BE ACHIEVED, ALTERNATIVE PROTECTION TO PIPE LINES WILL BE PROVIDED.
LESSER COVER PERMISSIBLE IN AS 3500 NOT TAKEN INTO ACCOUNT AND SHALL BE ASSESSED AS PER AS 3500 AND SOUND ENGINEERING PRINCIPLES.

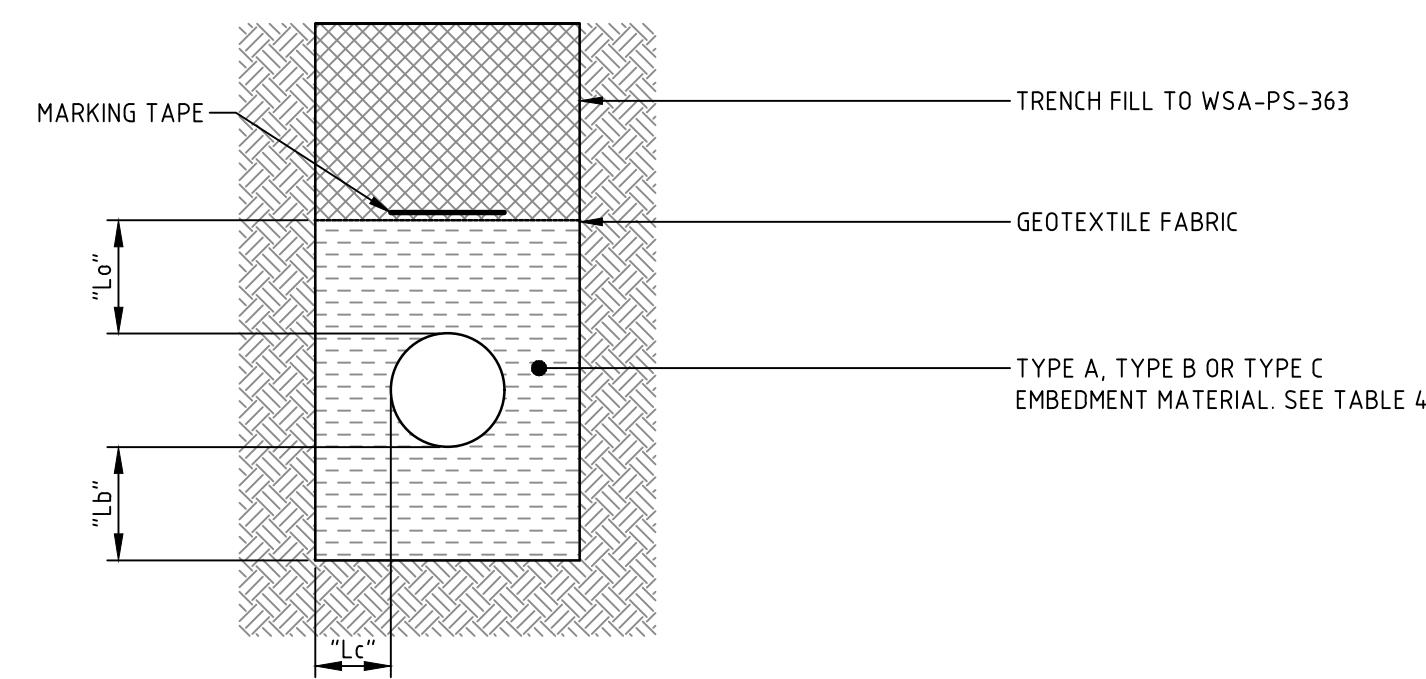
TABLE 2 : TRENCH CLEARANCE			
NOMINAL PIPE DIAMETER (DN)	CLEARANCE AT SPRING LINE ("Lc")	BED ZONE UNDER PIPE ("Lb")	DEPTH OF OVERLAY ("Lo")
≤ 150	100	100-150	150
>150 - ≤ 300	150	100-200	150
>300 - ≤ 450	200	100-200	150
>450 - ≤ 900	300	100-200	150

1. TRENCH WIDTH SHALL BE SUFFICIENT TO SAFELY LAY PIPE AND COMPACT TRENCH MATERIAL.
2. ENSURE BEDDING IS DEEP ENOUGH THAT PIPE JOINTS (SOCKETS AND FLANGES) DO NOT TOUCH THE TRENCH FLOOR.
3. TABLE BASED ON FLEXIBLE PIPELINE INSTALLATION ONLY. NOT CONCRETE, DIOL OR VC

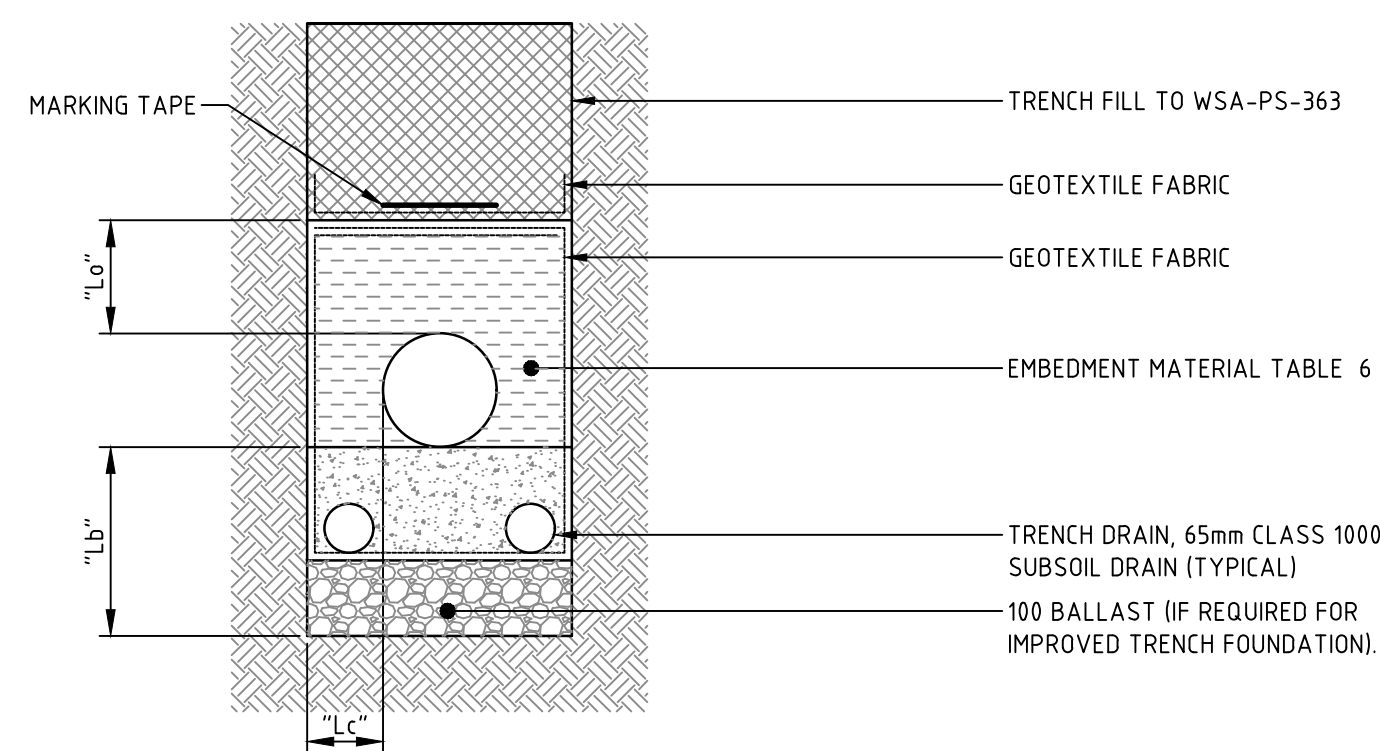
TABLE 3 : CLEARANCES BETWEEN SEWER AND UNDERGROUND UTILITIES			
OTHER UTILITIES	MINIMUM HORIZONTAL CLEARANCE (mm) NEW SEWER SIZE		MINIMUM VERTICAL CLEARANCE (mm)
	≤ DN 300	>DN 300	
SEWER ≤ DN 300	300	600	150/300
SEWER >DN 300	600	600	300
GAS	300	600	150/300
TELECOMMUNICATIONS	300	600	150/300
ELECTRICITY	500	1000	225/300
STORMWATER	300	600	150
WATER	1000/600	1000/600	500

REFER TO CLAUSE 5.4.5.2 OF WSA 02 FOR NOTES SPECIFICALLY RELATED TO THIS TABLE

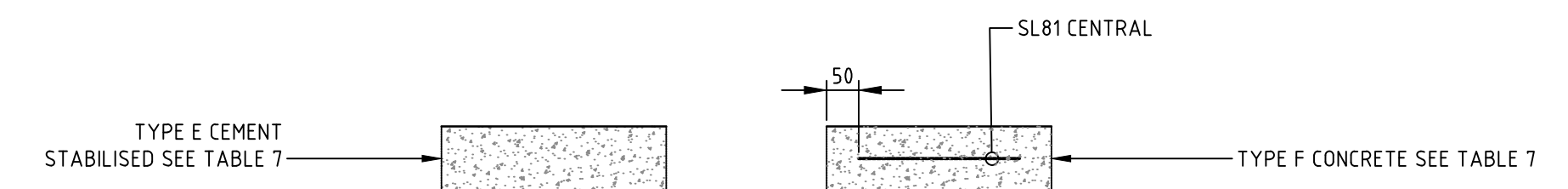
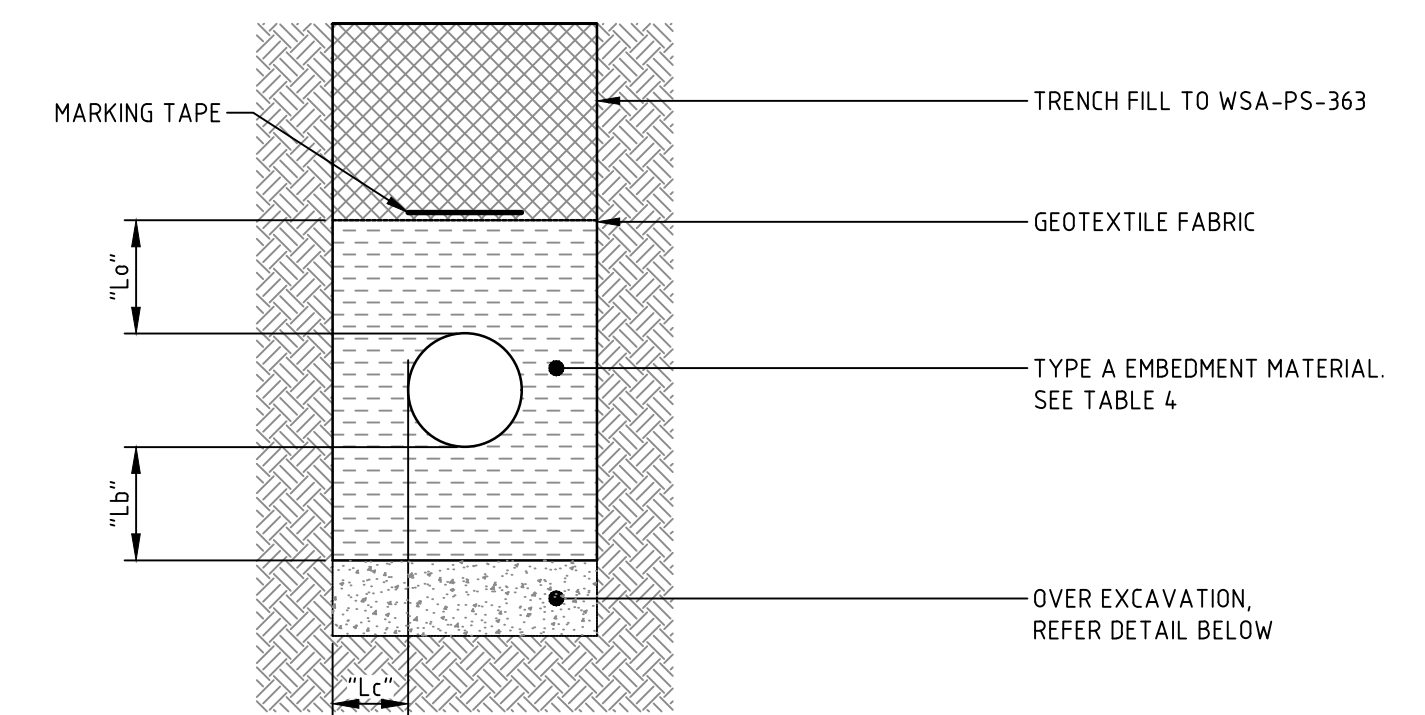
FOR DESIGN ACCEPTANCE		01.02.19	DA	CLIENT	DR JACOB MICHELSEN	ARCHITECT	TURCO AND ASSOCIATES	PROJECT TITLE	PIALLIGO VILLAGE AND ANIMAL REFERENCE HOSPITAL	DESIGNED BY	AM	DRAWING TITLE	TRENCH BACKFILL DETAILS SHEET 1	SCALE	NOT TO SCALE
ISSUE	DESCRIPTION	DATE	DRAWN	sellick consultants		STRUCTURAL CIVIL HYDRAULIC canberra sydney brisbane 02 6201 0200 www.sellickconsultants.com.au		DO NOT SCALE OFF DRAWINGS. VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK. COPYRIGHT: The concepts and information contained in this document are copyright of Sellick Consultants. Use or copying of this document in whole or in part without written permission constitutes an infringement of copyright.	CHECKED BY	CO	AUTHORISED BY	PROJECT LOCATION	BLOCK 17 SECTION 2 PIALLIGO, ACT	JOB NO.	161310
1		2						DATE	01/02/2019			DRAWING NO.	C203	REV.	A



TRENCH EMBEDMENTS
TYPES A, B AND C MATERIAL
 SCALE 1:10



TRENCH EMBEDMENT
TYPES D - SINGLE SIZED AGGREGATE
 SCALE 1:10



TRENCH EMBEDMENTS
TYPES E AND F MATERIAL
 SCALE 1:10

EMBEDMENT TYPE	APPLICATION	APPROVED MATERIALS
TYPE A - STANDARD	FOR USE WHERE THERE ARE NO STRUCTURAL ISSUES OR GROUND WATER.	WSA PS 350, WSA PS 360, WSA PS361.
TYPE B - CEMENT STABILISED SAND	FOR USED WHEN ASSET PROTECTION IS REQUIRED. (e.g. WATER MAINS BENEATH MAJOR CROSSINGS) OR WHEN MINIMUM COVER CAN NOT BE ACHIEVED.	WSA PS-350 (SAND) PLANT MIXED WITH 5% CEMENT PLACED AND COMPACTED DRY.
TYPE C - CLSM	FOR USE WHERE COMPACTION IN TRENCH IS DIFFICULT TO ACHIEVE DUE TO TIME OR SPACE CONSTRAINTS OR WHERE NATIVE SOIL CONDITIONS PROVIDE INSUFFICIENT FOUNDATION STRENGTH OR SOIL MODULUS FOR SIDE SUPPORT.	WSA PS 352, 28 DAY COMPRESSIVE STRENGTH 0.7 MPa, SLUMP 180mm COMPACTION IS NOT REQUIRED.

- IF SIGNIFICANT GROUNDWATER IS OBSERVED DURING EXCAVATION BUT EMBEDMENT TYPE A IS NOMINATED IN THE DESIGN, THE DESIGNER SHALL BE CONSULTED TO RECONSIDER THE EMBEDMENT MATERIAL SELECTION AND PROVISION OF DRAINAGE.
- WHEN USING CLSM, MEASURES SHALL BE TAKEN TO PREVENT FLOATATION OF PIPE DURING PLACEMENT.

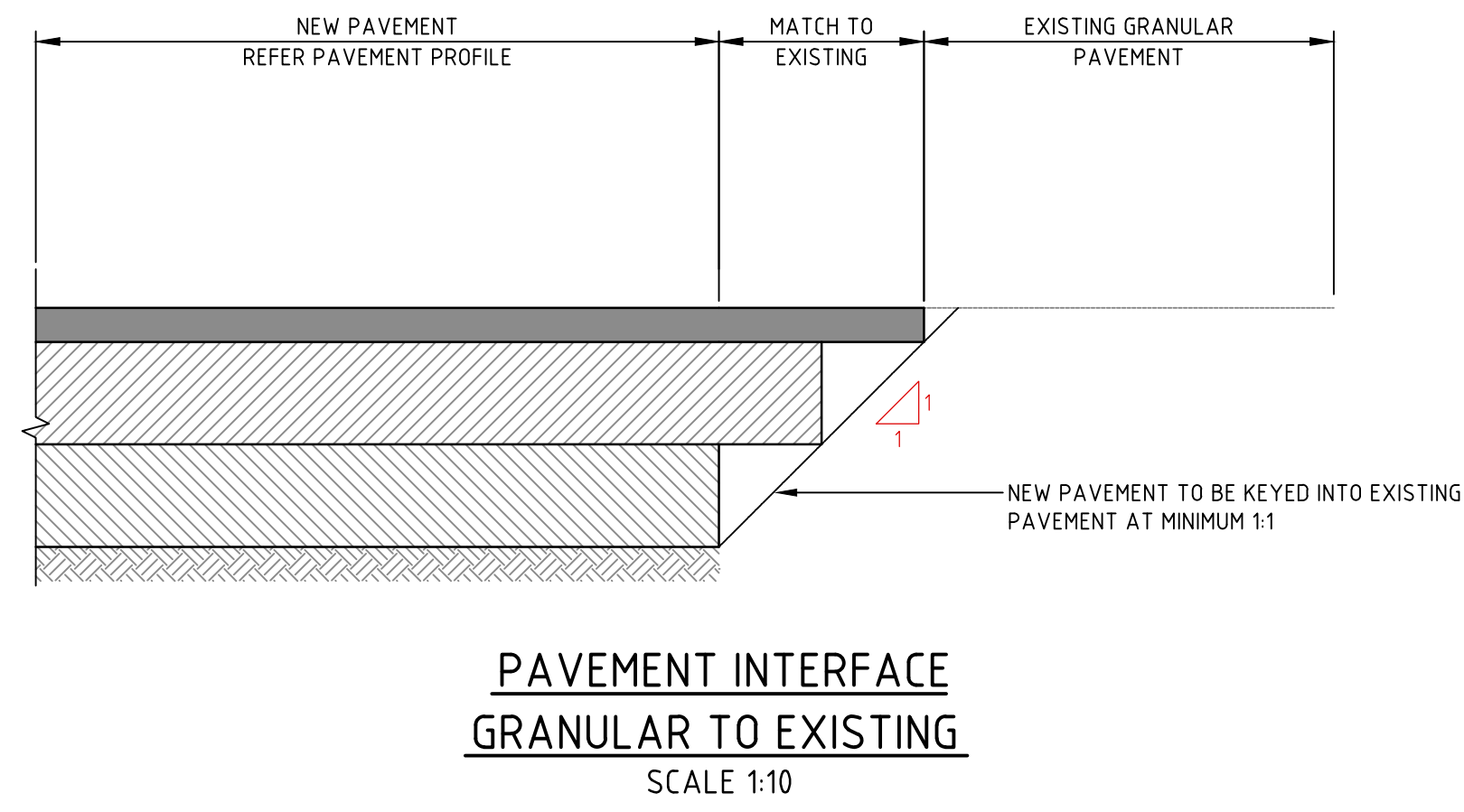
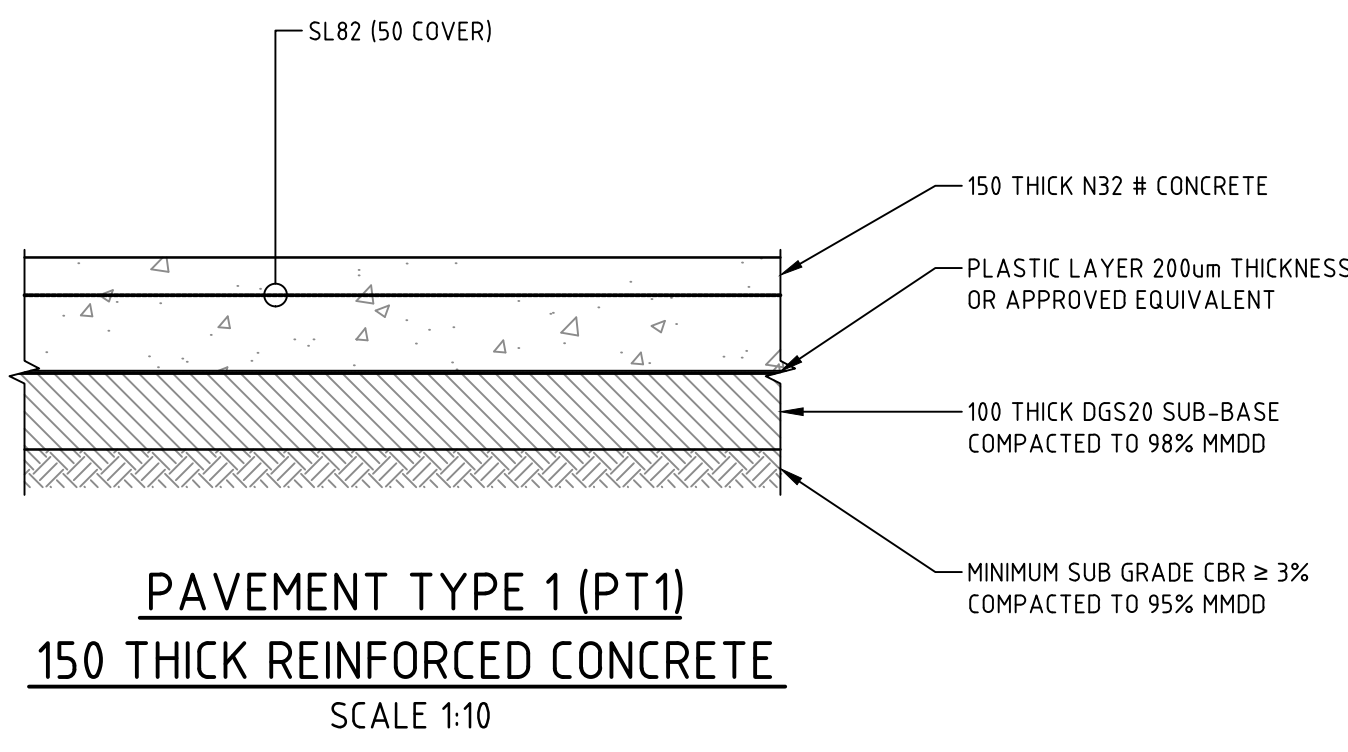
EMBEDMENT TYPE	APPLICATION	APPROVED MATERIALS
TYPE D - AGGREGATE (SINGLE SIZE)	FOR USE WHEN ASSET PROTECTION IS REQUIRED. (e.g. WATER MAINS BENEATH MAJOR CROSSINGS) OR WHEN MINIMUM COVER CAN NOT BE ACHIEVED.	WSA PS-350 (SAND) PLANT MIXED WITH 5% CEMENT PLACED AND COMPACTED DRY.

- EMBEDMENT SHALL BE WRAPPED IN GEOTEXTILE TO WSA PS 355, WITH MINIMUM 250 LAP AT ALL JOINTS.
- IF THE TRENCH HAS SOLID ROCK ON BOTH SIDES AND BENEATH THE EMBEDMENT MATERIAL, FILTER FABRIC IS ONLY REQUIRED ON THE TOP SURFACE (AS SHOWN).
- WHERE THE TRENCH FLOOR IS SOFT (i.e. BOOTS SINK INTO THE FLOOR UNDER A PERSONS WEIGHT), PRESS 100 BALLAST INTO THE TRENCH FLOOR UNTIL IT CAN TAKE A PERSONS WEIGHT WITHOUT MOVEMENT.
- PROVIDE TRENCH STOPS AND/BULK HEADS AND TRENCH DRAINAGE (IF REQUIRED) AS PER SD-2104.
- AGGREGATE TO BE WELL ROUNDED WITH NO SHARPS.
- MAXIMUM PARTIAL SIZE AS PER GIVEN TABLE.

NOMINAL PIPE DIAMETER (DN)	MAXIMUM PARTICLE SIZE (mm)
<100	10
100 ≤ DN ≤ 150	14
>150	20

EMBEDMENT TYPE	APPLICATION	APPROVED MATERIALS
TYPE E - CEMENT STABILISED SAND	FOR USE WHERE OVER EXCAVATION HAS OCCURRED DUE TO POOR SOIL CONDITIONS AND WHEN THERE IS LITTLE TO NO GROUNDWATER.	WSA PS-350 (SAND) PLANT MIXED WITH 5% CEMENT PLACED AND COMPACTED DRY.
TYPE F - CONCRETE	FOR USE IN SHORT SPANS (<1000) OF LOW BEARING CAPACITY GROUND (SOFT CLAYS AND LOOSE SAND).	WSA PS 352, 28 DAY COMPRESSIVE STRENGTH 0.7 MPa, SLUMP 180mm COMPACTION IS NOT REQUIRED.

- IF SIGNIFICANT GROUNDWATER IS OBSERVED DURING EXCAVATION BUT EMBEDMENT TYPE A IS NOMINATED IN THE DESIGN, THE DESIGNER SHALL BE CONSULTED TO RECONSIDER THE EMBEDMENT MATERIAL SELECTION AND PROVISION OF DRAINAGE.
- CONCRETE SHALL BE SULFATE RESISTANT IF NATIVE SOIL IS CLASSIFIED AS ACID SULFATE SOIL (ASS) WHICH CONTAINS GREATER THAN 1.0% SULFATE AND NET ACID GENERATION POTENTIAL GREATER THAN 0.0.



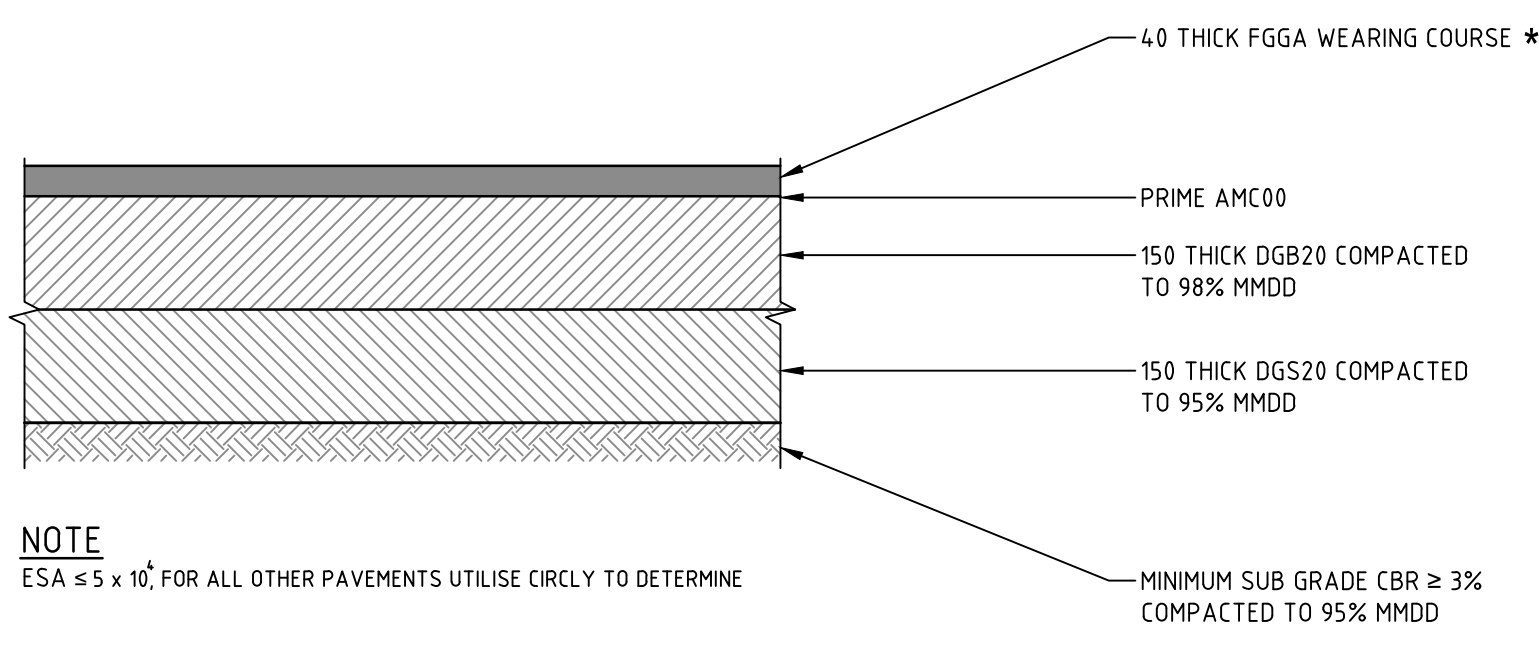
PAVEMENT NOTES

- # FOR CONCRETE PAVEMENTS SUBJECT TO FORKLIFT LOADS, CONCRETE SHALL BE N40 MP_a TO ACHIEVE DURABILITY UNDER THE AUSTRALIAN STANDARD.
- * AISE PMB SHALL BE ADDED AT ALL INTERSECTIONS AND ROUNDABOUTS (TO THE TP ON ALL LEGS)

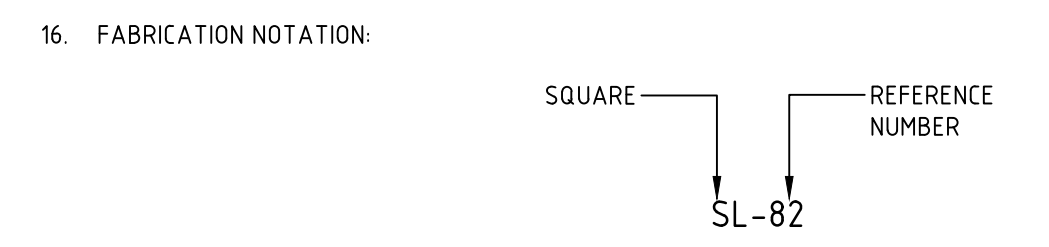
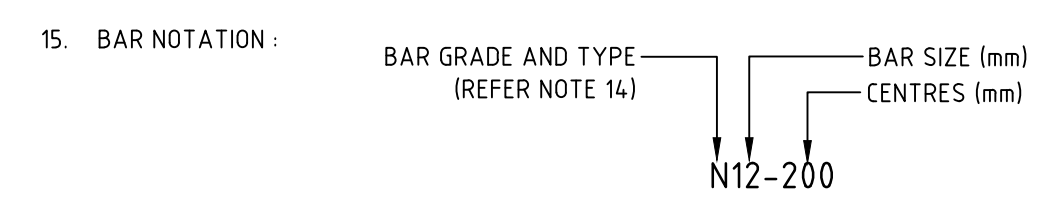
CONCRETE NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600 WITH AMENDMENTS AND OTHER RELEVANT AUSTRALIAN STANDARDS, EXCEPT WHERE VARIED BY CONTRACT DOCUMENTS.
2. FORMWORK SHALL BE DESIGNED, ERECTED AND REMOVED IN ACCORDANCE WITH AS3610
3. CONCRETE SHALL BE PLACED IN ACCORDANCE WITH AS3600
4. CONCRETE STRENGTH SHALL ASSESSED IN ACCORDANCE WITH THE SPECIFICATION OR AS SPECIFIED.
5. CONCRETE SHALL BE MECHANICALLY VIBRATED TO ENSURE MAXIMUM COMPACTION WITHOUT SEGREGATION OF CONCRETE.
6. COVER TO REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE SPECIFICATION OR AS SPECIFIED.
7. THE FINISHED CONCRETE SHALL BE FINISHED IN ACCORDANCE WITH THE CLASS OF FINISH OUTLINED IN THE SPECIFICATION.
8. SIZE OF CONCRETE ELEMENTS DOES NOT INCLUDE THICKNESS OF APPLIED FINISHES.
9. PRIOR TO COMMENCEMENT OF CONCRETE POUR, THE CONTRACTOR SHALL SUBMIT A PROPOSED CONCRETE CURING METHODOLOGY TO THE ENGINEER FOR WRITTEN APPROVAL.
10. CONCRETE TEMPERATURE WHEN PLACED SHALL NOT EXCEED 32°C OR BE LESS THAN 5°C.
11. CONCRETE SHALL NOT BE PLACED IF THE AMBIENT TEMPERATURE IS BELOW 5°C OR IS ANTICIPATED TO FALL BELOW 5°C WITHIN 24 HOURS OF PLACEMENT, UNLESS APPROVED IN WRITING BY THE SUPERINTENDENT OR DESIGN ENGINEER.
12. NO ADMIXTURES SHALL BE USED UNLESS APPROVED IN WRITING BY THE DESIGN ENGINEER.
13. REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC DIPPED CHAIRS. CHAIRS SHALL NOT BE GREATER THAN 750mm CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATIVE INTERSECTIONS.
14. REINFORCEMENT TYPE AND GRADE:

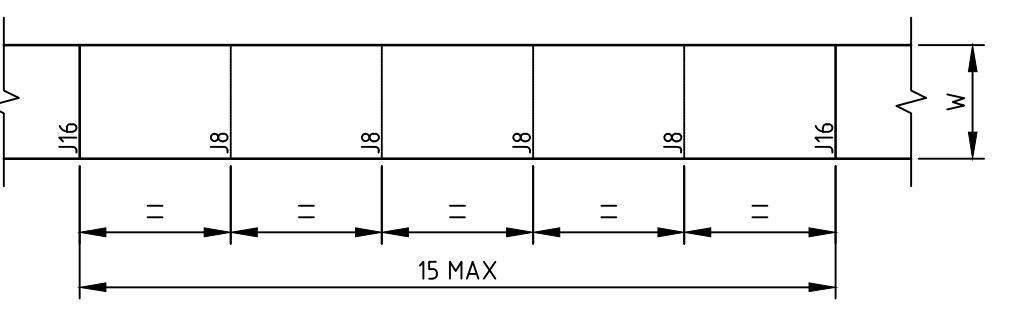
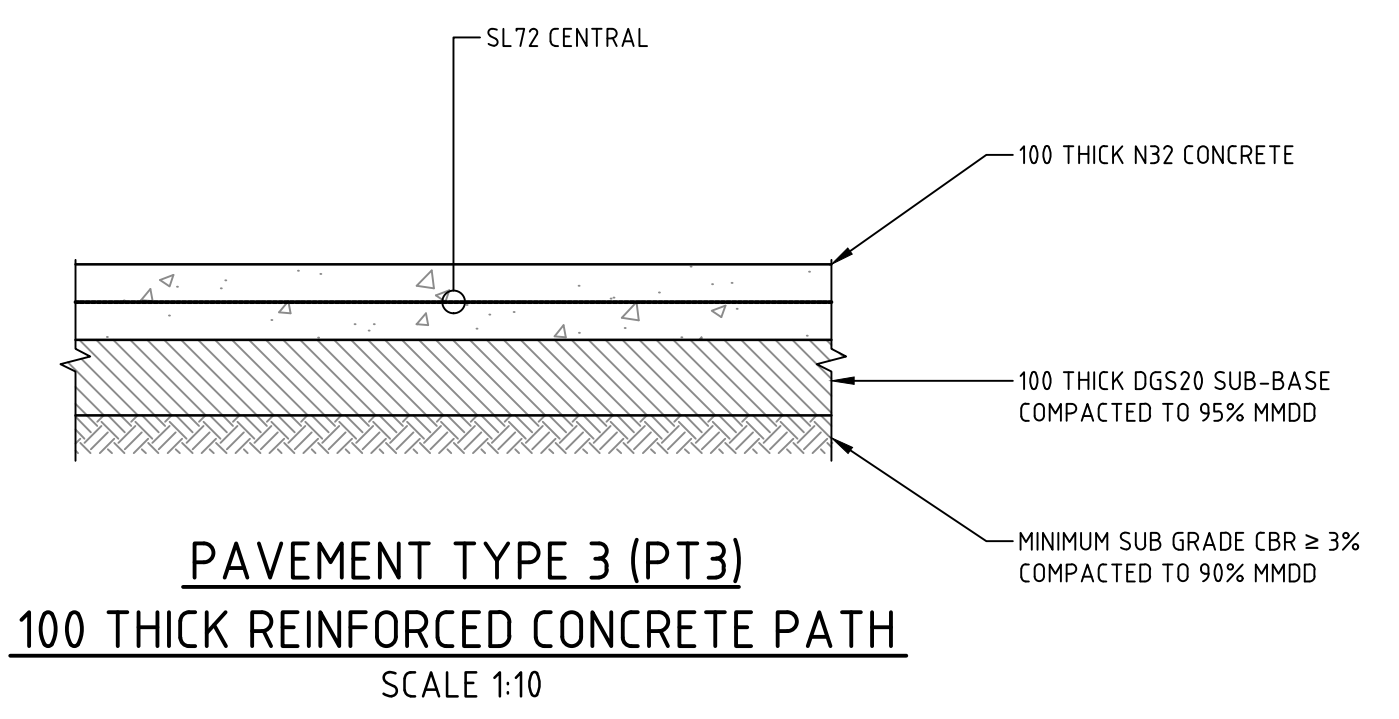
REINFORCEMENT NOTATION TYPE	DESCRIPTION AND TYPE	CLASSIFICATION AND DESIGNATION TO AS4671
N	HOT ROLLED DEFORMED BAR, MICROALLOY TEMPCORE	D500N
R	HOT ROLLED PLAIN ROUND BAR, MILD STEEL	R250N
SL	SQUARE MESH OF COLD DRAWN DEFORMED WIRE, MILD STEEL SHEETS	D500SL



NOTE
ESA ≤ 5 x 10⁴, FOR ALL OTHER PAVEMENTS UTILISE CIRCLY TO DETERMINE



17. FABRICATION SHALL BE LAPPED SUCH THAT THE TWO OUTERMOST WIRES OF ONE SHEET OVERLAP THE TWO OUTERMOST WIRES OF THE OTHER SHEET BY 25mm MINIMUM. U.N.O.
18. REINFORCEMENT BARS SHALL BE LAPPED 40 x φ MINIMUM U.N.O



NOTE
W = 15m WIDE UNLESS NOTED OTHERWISE.

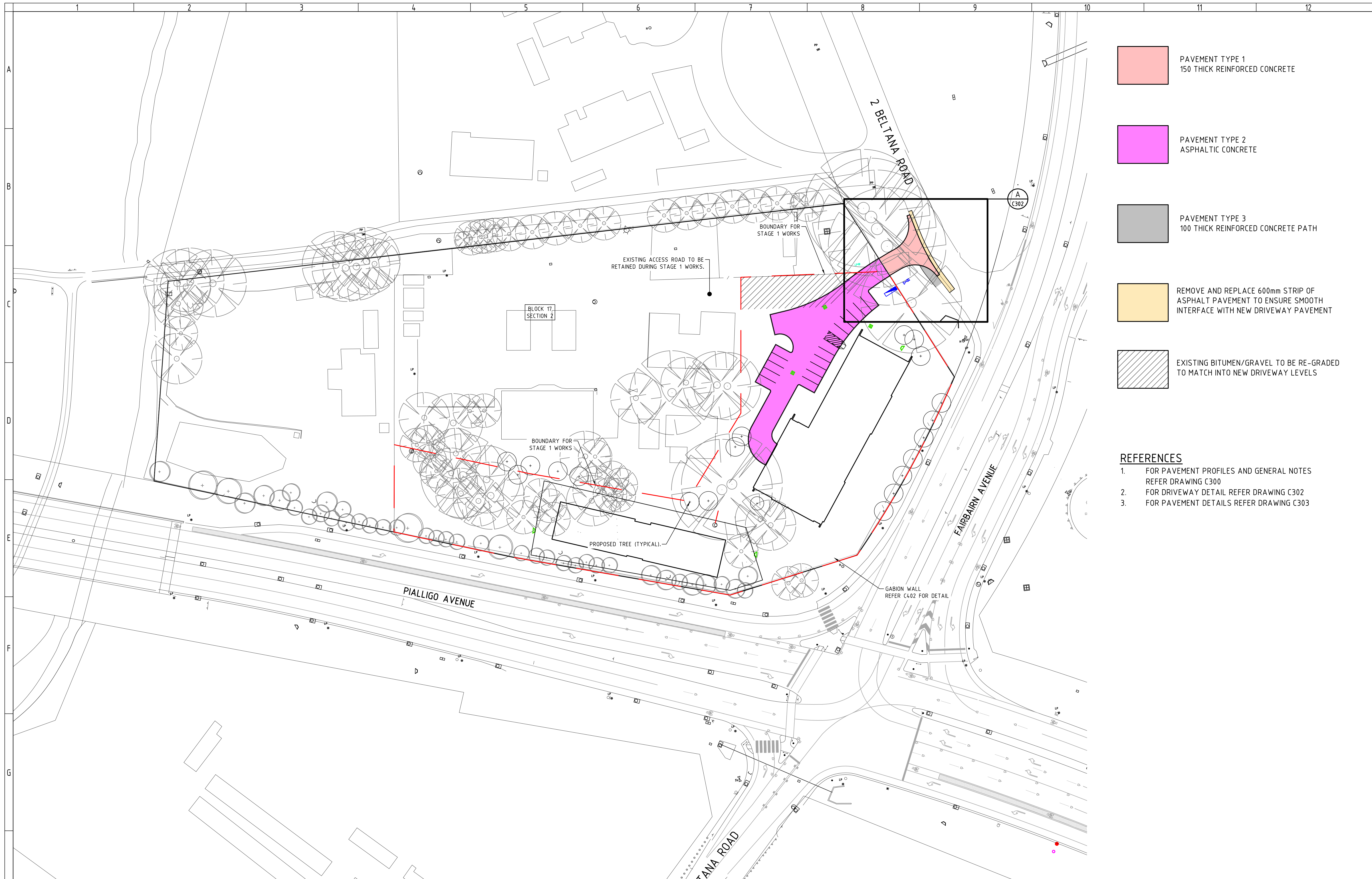
PATH NOTES

1. EXPANSION JOINTS (J16) ARE TO BE SEALED WITH 12mm JOINTEX FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EJ's TO BE LOCATED AT ALL DRAINAGE STRUCTURES (BOTH SIDES), ON TP's OF CURVES AND ELSEWHERE AT MAXIMUM 6.0m CENTRES
2. WEAKENED PLANE JOINTS (J8) ARE TO BE 3mm WIDE TO 1/2 DEPTH FOR EXTRUDE WORK AND TO THE FULL DEPTH OF FORMED SECTIONS.
3. BRUSH FINISH "NON-SKID" TO ALL PRAM RAMP AND VEHICULAR CROSSINGS. ALL OTHER KERBING OF OPEN DRAINS TO BE STEEL FLOAT FINISHED.
4. ALL JOINTS TO BE PERPENDICULAR TO THE PATH EDGE AND FINISHED WITH 5.0mm EDGE TOOL.
5. WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING OR ADJACENT PAVEMENT JOINTS.
6. ALL SUB-BASE LAYERS SHALL BE FINISHED TO ENSURE A TIGHT LEVEL SURFACE. MAXIMUM DEVIATION IS TO BE 5.0mm OVER A 3.0m STRAIGHT EDGE.
7. ALL TEST HOLES IN THE SUB-BASE/ BASE LAYERS ARE TO BE RIPPED AND RE-COMPACTED TO ENSURE A HOMOGENOUS LAYER.
8. PATH WIDTH (W) SHALL BE MEASURED FROM THE BACK OF KERB WHEN THE PATH IS DESIGNED TO BE AGAINST THE BACK OF KERB.

REFERENCE

1. FOR PAVEMENT DETAILS REFER DRAWING C303

CLIENT DR JACOB MICHELSEN	ARCHITECT TURCO AND ASSOCIATES	<p>sellick consultants STRUCTURAL CIVIL HYDRAULIC canberra sydney brisbane 02 6201 0200 www.sellickconsultants.com.au</p>	PROJECT TITLE PIALLIGO VILLAGE AND ANIMAL REFERENCE HOSPITAL	DESIGNED BY AM CHECKED BY CO AUTHORISED BY DATE 01/02/2019	DRAWING TITLE PAVEMENT PROFILES AND GENERAL NOTES PROJECT LOCATION BLOCK 17 SECTION 2 PIALLIGO, ACT	SCALE 0 100 200 300 400 500mm 1:10 @ A1 JOB NO. 161310 DRAWING NO. C300 REV. A
FOR DESIGN ACCEPTANCE ISSUE DESCRIPTION 1	DATE 01.02.19 DRAWN DA 2			DO NOT SCALE OFF DRAWINGS VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK. COPYRIGHT: The concepts and information contained in this document are copyright of Sellick Consultants. Use or copying of this document in whole or in part without written permission constitutes an infringement of copyright.		



- PAVEMENT TYPE 1
150 THICK REINFORCED CONCRETE
- PAVEMENT TYPE 2
ASPHALTIC CONCRETE
- PAVEMENT TYPE 3
100 THICK REINFORCED CONCRETE PATH
- REMOVE AND REPLACE 600mm STRIP OF ASPHALT PAVEMENT TO ENSURE SMOOTH INTERFACE WITH NEW DRIVEWAY PAVEMENT
- EXISTING BITUMEN/GRAVEL TO BE RE-GRADED TO MATCH INTO NEW DRIVEWAY LEVELS

REFERENCES

1. FOR PAVEMENT PROFILES AND GENERAL NOTES REFER DRAWING C300
2. FOR DRIVEWAY DETAIL REFER DRAWING C302
3. FOR PAVEMENT DETAILS REFER DRAWING C303

	FOR DESIGN ACCEPTANCE	01.02.19	DA
	REVISED FOR WORKS APPROVAL	22.05.18	TI
	FOR DESIGN ACCEPTANCE	29.03.18	RT
	REVISED FOR WORKS APPROVAL	05.10.17	NS
	FOR WORKS APPROVAL	04.08.17	AM
	FOR REVIEW	21.07.17	NS
ISSUE	DESCRIPTION	DATE	DRAWN
1			
2			

CLIENT
DR JACOB MICHELSEN

ARCHITECT
TURCO AND ASSOCIATES



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STRUCTURAL CIVIL HYDRAULIC
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02 6201 0200 www.sellickconsultants.com.au

PROJECT TITLE
PIALLIGO VILLAGE AND ANIMAL REFERENCE HOSPITAL

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DESIGNED BY
AM

CHECKED BY
CO

AUTHORISED BY

DATE
01/02/2019

DRAWING TITLE
PAVEMENT PLAN

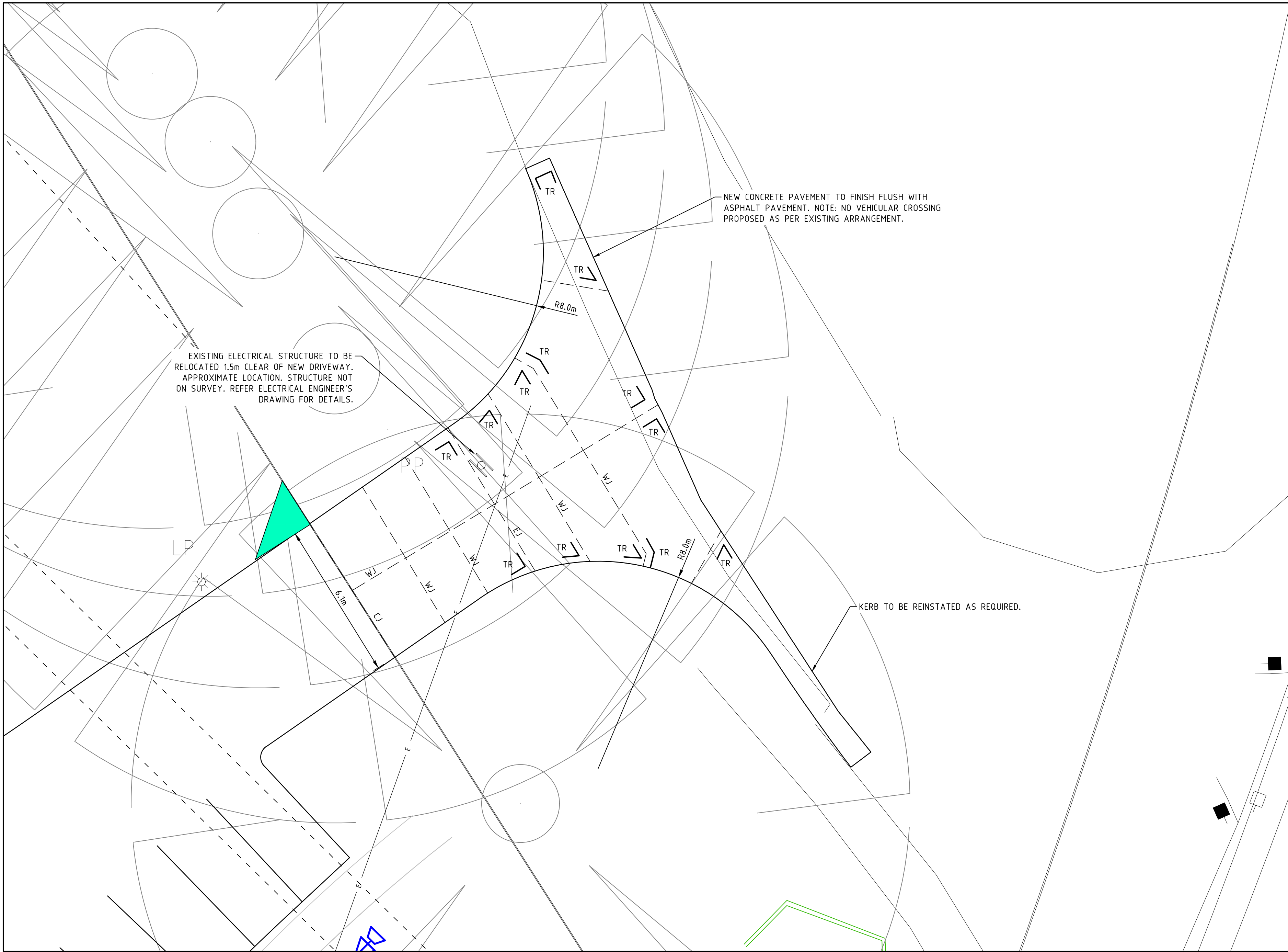
PROJECT LOCATION
**BLOCK 17 SECTION 2
PIALLIGO, ACT**

SCALE
0m 5 10 15 20 25
1:500 @A1 1:1000 @A3

JOB NO.
161310

DRAWING NO.
C301

REV.
F



CONCRETE KERBS, FOOTPATHS AND MINOR WORKS

- CONSTRUCTION OF CONCRETE KERBS, FOOTPATHS AND MINOR WORKS SHALL BE IN ACCORDANCE WITH DESIGN STANDARD DRAWINGS DS3-01, DS3-02 AND DS13-01.
- ALL CONCRETE TO BE MINIMUM GRADE N25 (F_c=25MPa) UNLESS NOTED OTHERWISE. AGGREGATE SIZE TO BE 20mm MAXIMUM.
- JOINTING SHALL BE IN ACCORDANCE WITH DESIGN STANDARD DRAWINGS DS3-02 AND DS13-01.
- BROOMED FINISH TO BE APPLIED TO ALL VEHICULAR CROSSINGS, FOOTPATHS AND PRAM RAMP. ALL OTHER EXPOSED SURFACES TO HAVE STEEL FLOAT FINISH.
- ALL CONCRETE TO BE CURED CONTINUOUSLY FOR THREE DAYS AFTER PLACING OR ALTERNATIVELY COATED WITH AN APPROVED CURING COMPOUND IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION.

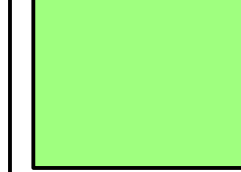
CONCRETE PAVEMENT NOTES

- ALL CONCRETE SHALL BE MINIMUM GRADE N32 (F_c=32 MPa). AGGREGATE SIZE TO BE 20mm MAX.
- ALL PAVEMENT TO BE 150mm THICK AND REINFORCED WITH ONE LAYER OF SL82 FABRIC AT 50mm TOP COVER UNLESS SHOWN OTHERWISE.
- BROOMED FINISH TO BE APPLIED TO ALL CONCRETE SURFACES.
- ALL CONCRETE TO BE CURED CONTINUOUSLY FOR THREE DAYS AFTER PLACING.

VERGE GRASSING NOTES

- DURING THE PROJECT RETAIN ALL EXISTING VERGE GRASS COVER, WATERING MAY BE REQUIRED TO RETAIN GRASS AND TREES IN GOOD CONDITION.
- AT THE COMPLETION OF CONSTRUCTION VERGES SHOULD STILL HAVE ESTABLISHED DRYLAND GRASS COVER. TOPSOIL IS NOT TO BE REMOVED AND THE SOIL LEVEL MUST NOT BE CHANGED.
- IF THE STANDARD OF GRASS COVER ON THE VERGE IS TO BE IMPROVED, THE FOLLOWING REQUIREMENTS APPLY.
 - LIGHTLY CULTIVATE THE SOIL TO 25mm - 50mm DEPTH (50 MM MAXIMUM TO MINIMISE DAMAGE TO TREE ROOTS). CULTIVATE ONLY IF ONE DIRECTION. AVOID MAJOR ROOTS, AND KEEP A MINIMUM OF 1-2m AWAY FROM TREE TRUNKS.
 - ADD 'B TYPE' TOPSOIL AT 25mm - 50mm DEPTH. LEVEL THE TOPSOIL AND ADD NPK FERTILISER (EQUIVALENT TO MULTIGRO) AT 40G/m².
 - LAY TURF OR SOW SEED OF SUITABLE DROUGHT TOLERANT SPECIES KEEP MOIST DURING ESTABLISHMENT.
 - AN IN-GROUND IRRIGATION SYSTEM WILL NOT BE PERMITTED IN THE VERGE. A SYSTEM OF QUICK COUPLERS AT THE LEASE EDGE OF THE VERGE MAY BE INSTALLED, SUBJECT TO CANBERRA URBAN PARKS AND PLACES APPROVAL OF THE IRRIGATION PLAN.
- ANY DAMAGE THAT OCCURS TO TREES IS TO BE REPAIRED AT THE DEVELOPER'S EXPENSE. RESTORATIVE WORK IS TO BE APPROVED BY CANBERRA URBAN PARKS AND PLACES (CUPPI) AND CARRIED OUT BY APPROVED OPERATORS.
- CONTRACTOR IS TO ENSURE ANY TURF IMPORTED FOR VERGE REINSTATEMENT IS FREE FROM FIRE WEED.

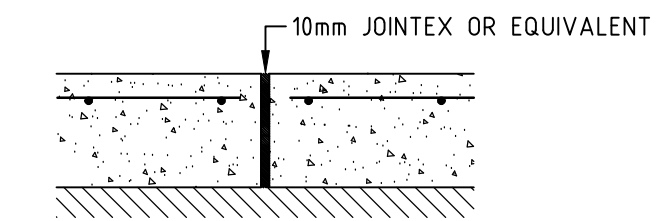
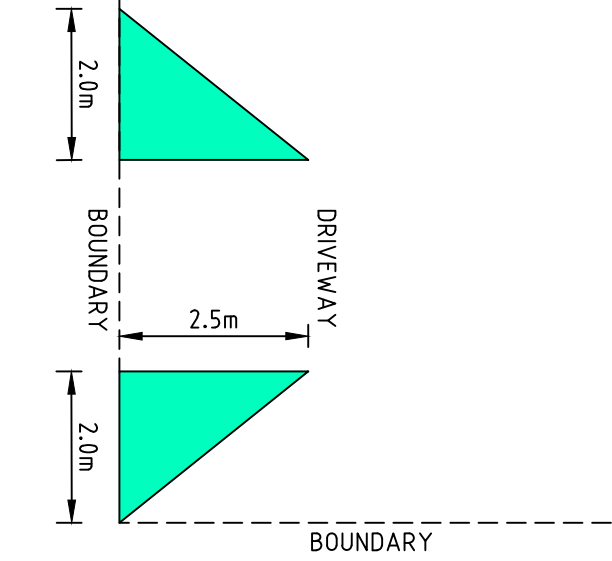
SHOWN AS:



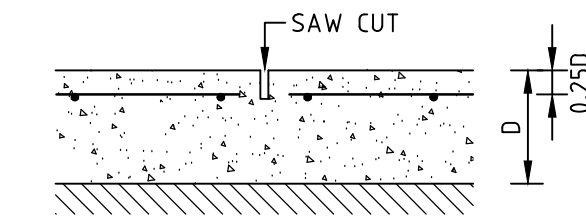
REMOVE AND REPLACE 600mm STRIP OF ASPHALT PAVEMENT TO ENSURE SMOOTH INTERFACE WITH NEW DRIVEWAY PAVEMENT

SIGHT LINES

SIGHT LINES ARE TO BE IN ACCORDANCE WITH AS2890.1. ENSURE NO FENCING OR PLANTING TO OBSTRUCT SIGHT LINES.



EXPANSION JOINT (EJ)
NOT TO SCALE



CUT AWAY EVERY SECOND BAR IN JOINT ALIGNMENT

WEAKENED JOINT (WJ)
NOT TO SCALE

NOTE: ALL WEAKENED JOINTS TO BE SEALED IMMEDIATELY AFTER CUTTING

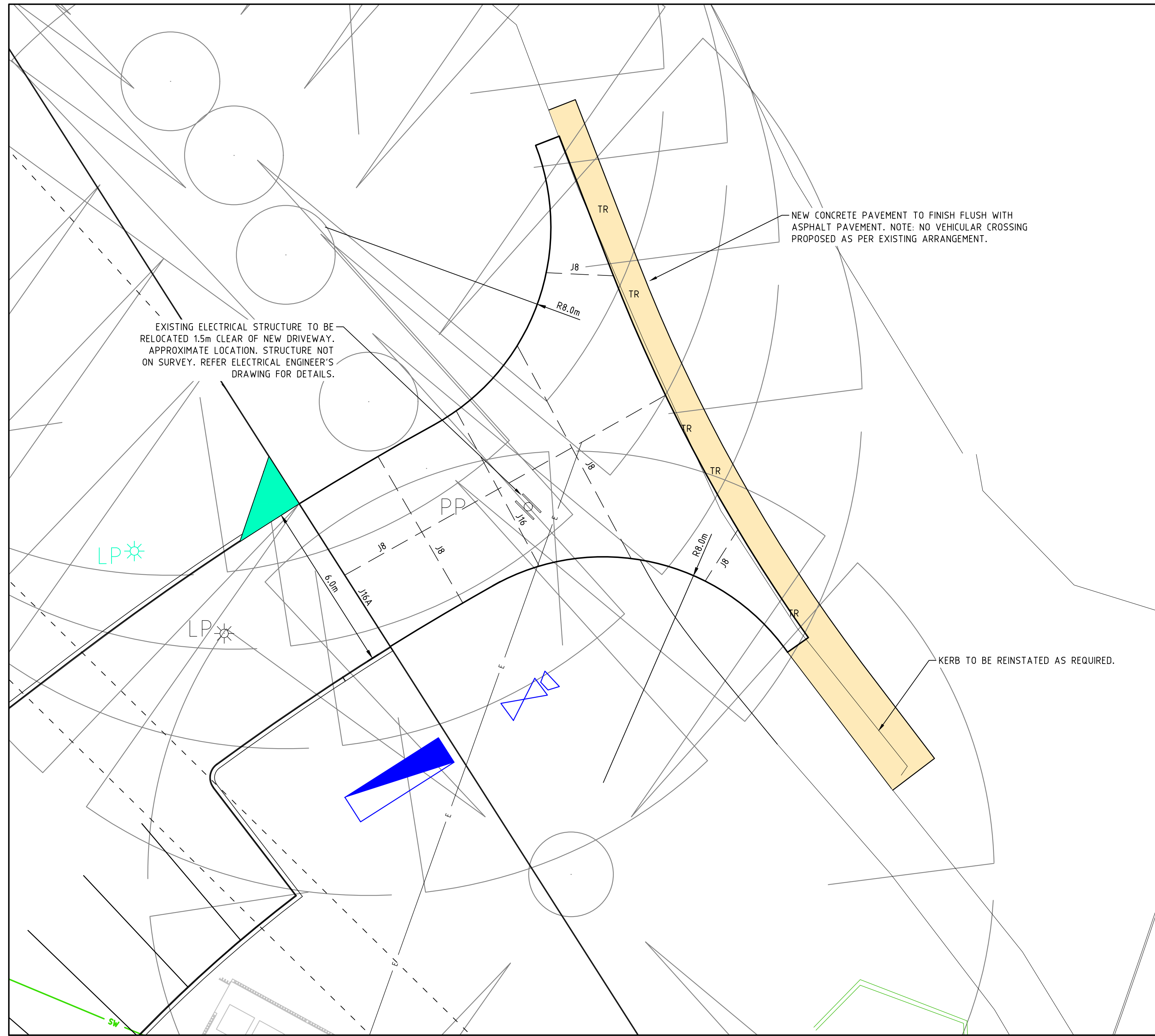
TR 2N12 TRIMMERS

EXISTING ELECTRICAL STRUCTURE TO BE RELOCATED 1.5m CLEAR OF NEW DRIVEWAY. APPROXIMATE LOCATION. STRUCTURE NOT ON SURVEY. REFER ELECTRICAL ENGINEER'S DRAWING FOR DETAILS.

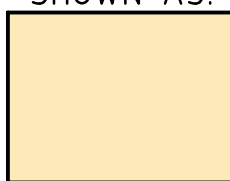
NEW CONCRETE PAVEMENT TO FINISH FLUSH WITH ASPHALT PAVEMENT. NOTE: NO VEHICULAR CROSSING PROPOSED AS PER EXISTING ARRANGEMENT.

KERB TO BE REINSTATED AS REQUIRED.

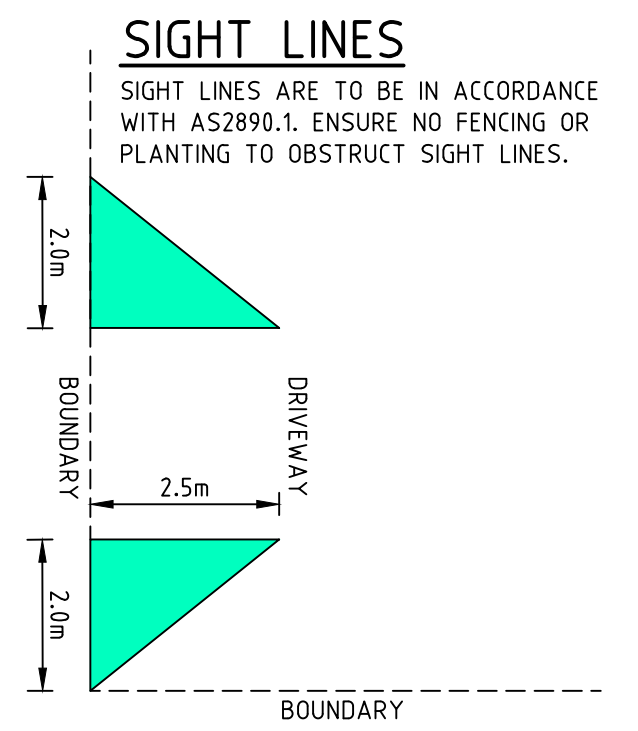
C B A ISSUE DESCRIPTION 1 2	REVISED FOR WORKS APPROVAL FOR WORKS APPROVAL	05.10.17 04.08.17 21.07.17 DATE DRAWN	NS AM NS		CLIENT DR JACOB MICHELSEN	ARCHITECT TURCO AND ASSOCIATES	STRUCTURAL CIVIL HYDRAULIC canberra sydney brisbane 02 6201 0200 www.sellickconsultants.com.au	PROJECT TITLE PIALLIGO VILLAGE AND ANIMAL REFERENCE HOSPITAL DO NOT SCALE OFF DRAWINGS VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK. COPYRIGHT: The concepts and information contained in this document are copyright of Sellick Consultants. Use or copying of this document in whole or in part without written permission constitutes an infringement of copyright.	DESIGNED BY AM CHECKED BY CO AUTHORISED BY DATE 05/10/2017	DRAWING TITLE CIVIL DETAILS PLAN 1 PROJECT LOCATION BLOCK 17 SECTION 2 PIALLIGO, ACT	SCALE 0m 1 2 3 4 5 1:100 @A1 1:200 @A3 JOB NO. 161310 DRAWING NO. C302 REV. C
	1 2	3 4 5 6 7 8 9 10 11 12									



SHOWN AS:



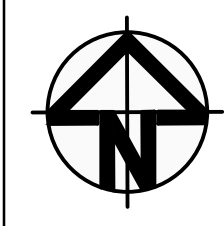
REMOVE AND REPLACE 600mm STRIP OF ASPHALT PAVEMENT TO ENSURE SMOOTH INTERFACE WITH NEW DRIVEWAY PAVEMENT



REFERENCE

1. FOR PAVEMENT DETAILS REFER DRAWING C303

ISSUE	DESCRIPTION	DATE	DRAWN
F	FOR DESIGN ACCEPTANCE	01.02.19	DA
E	REVISED FOR WORKS APPROVAL	22.05.18	TI
D	FOR DESIGN ACCEPTANCE	29.03.18	RT
C	REVISED FOR WORKS APPROVAL	05.10.17	NS
B	FOR WORKS APPROVAL	04.08.17	AM
A	FOR REVIEW	21.07.17	NS



CLIENT
DR JACOB MICHELSEN

ARCHITECT
TURCO AND ASSOCIATES



PROJECT TITLE
PIALLIGO VILLAGE AND ANIMAL REFERENCE HOSPITAL

DESIGNED BY
AM

CHECKED BY
CO

AUTHORISED BY

DATE
01/02/2019

DRAWING TITLE
CIVIL DETAILS PLAN

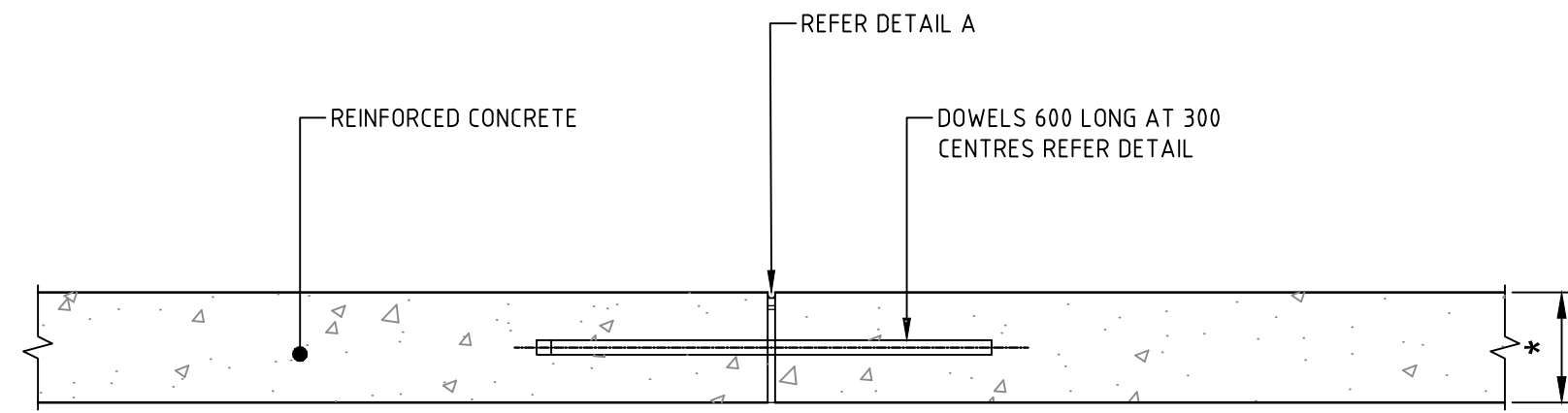
PROJECT LOCATION
**BLOCK 17 SECTION 2
PIALLIGO, ACT**

SCALE
0m 1 2 3 4 5
1:100 @A1 1:200 @A3

JOB NO.
161310

DRAWING NO. REV.
C302 F

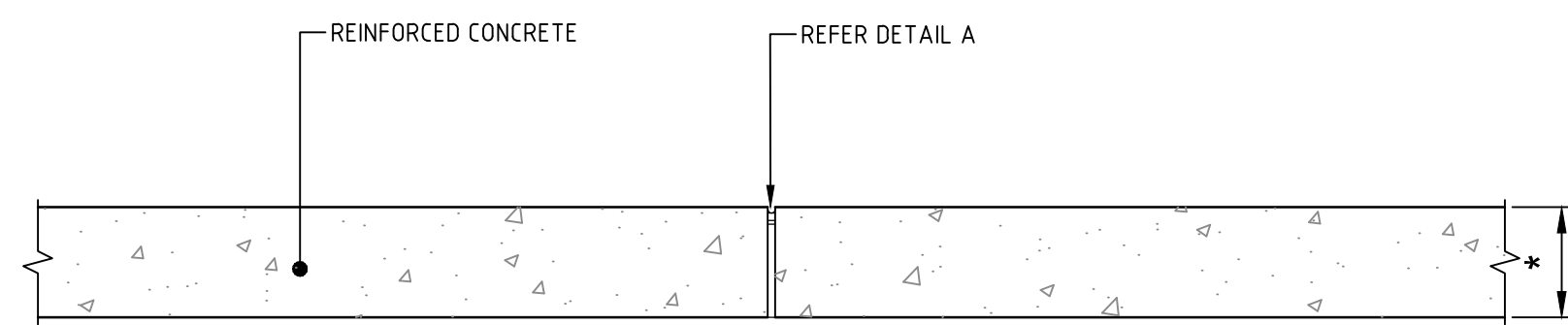
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* REFER PAVEMENT PLAN AND PROFILES

NOTE:
CONNOLLY EXPANSION JOINT ACCEPTED OR APPROVED EQUIVALENT

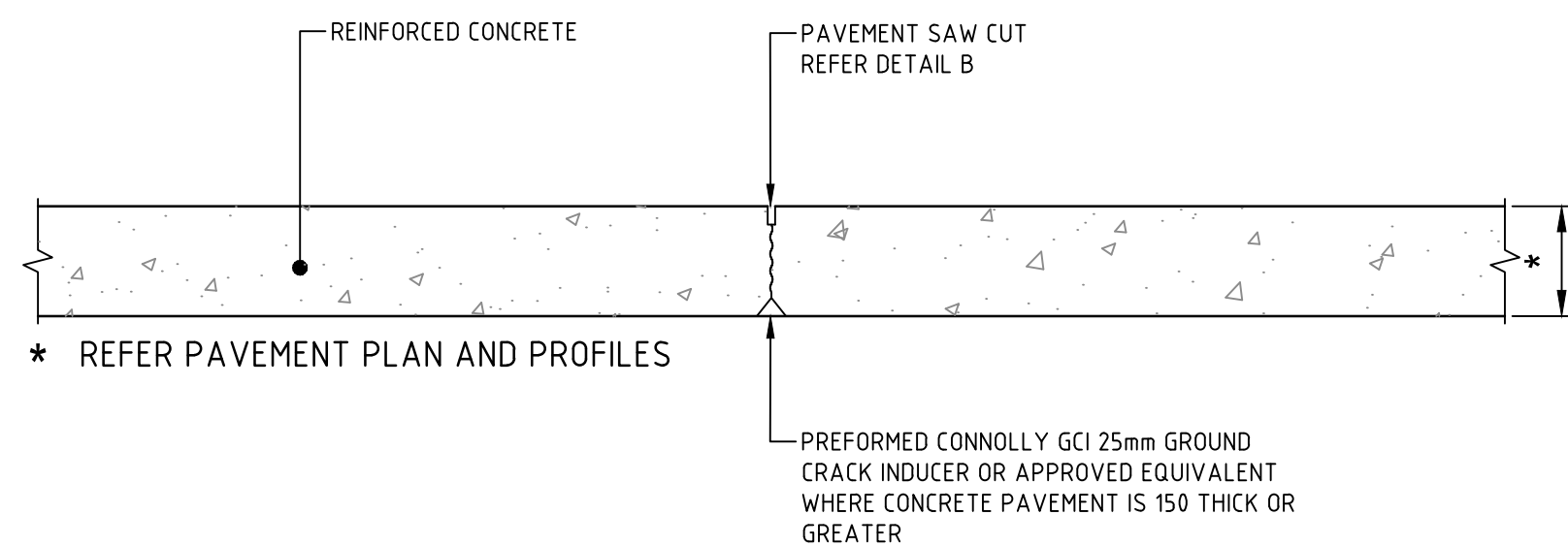
(J16) DOWELED EXPANSION JOINT
SCALE 1:10



* REFER PAVEMENT PLAN AND PROFILES

NOTE:
CONNOLLY EXPANSION JOINT ACCEPTED OR APPROVED EQUIVALENT

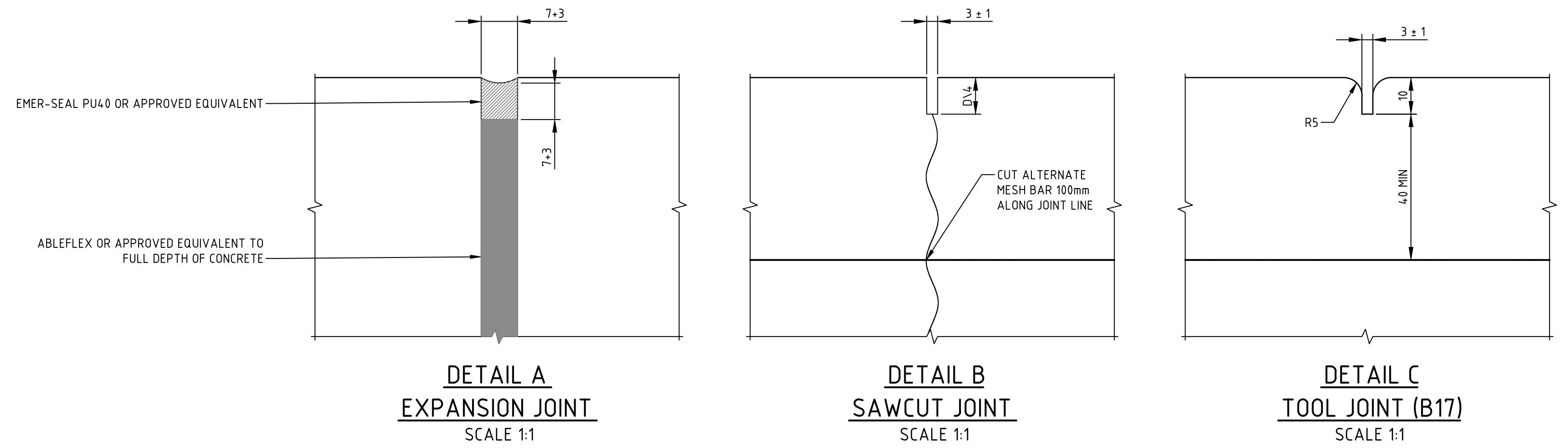
(J16A) EXPANSION JOINT
SCALE 1:10



* REFER PAVEMENT PLAN AND PROFILES

NOTE:
CONNOLLY CRACK INDUCED JOINT ACCEPTED OR APPROVED EQUIVALENT

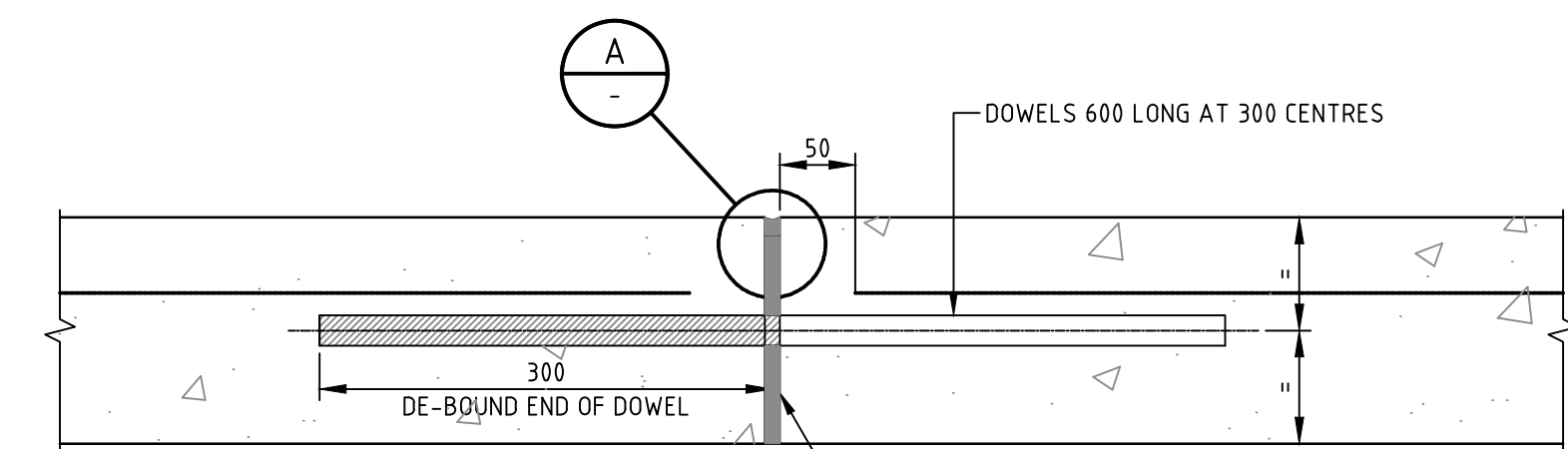
(J8) CRACK INDUCED JOINT
SCALE 1:10



DETAIL A
EXPANSION JOINT
SCALE 1:1

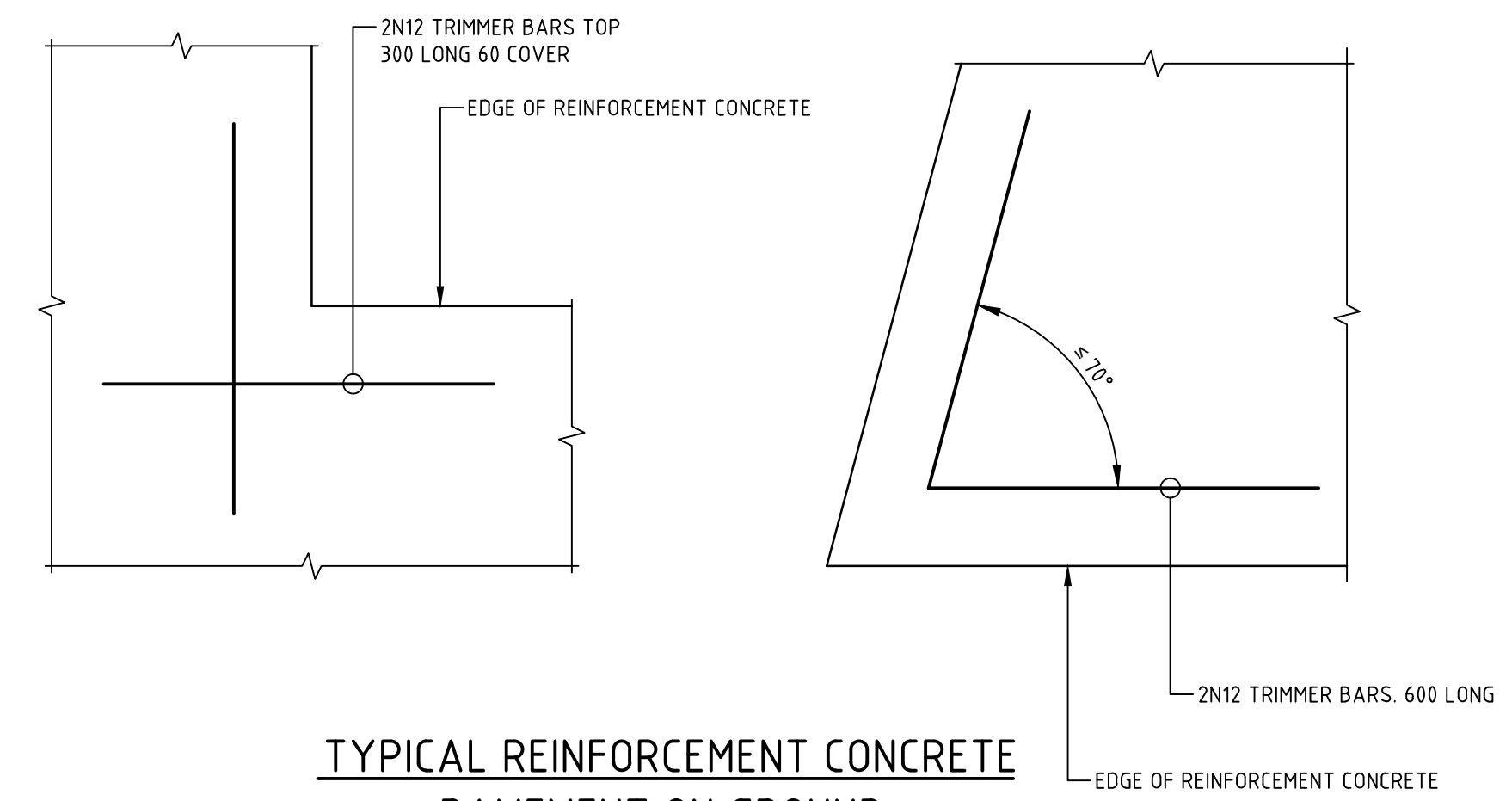
DETAIL B
SAWCUT JOINT
SCALE 1:1

DETAIL C
TOOL JOINT (B17)
SCALE 1:1

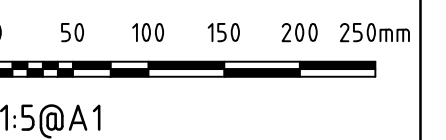


CONCRETE THICKNESS	DOWEL SIZE
100	12
125	20
150	24
175	28
200	33

DOWEL JOINT DETAIL
SCALE 1:5



TYPICAL REINFORCEMENT CONCRETE
PAVEMENT ON GROUND
SCALE 1:5

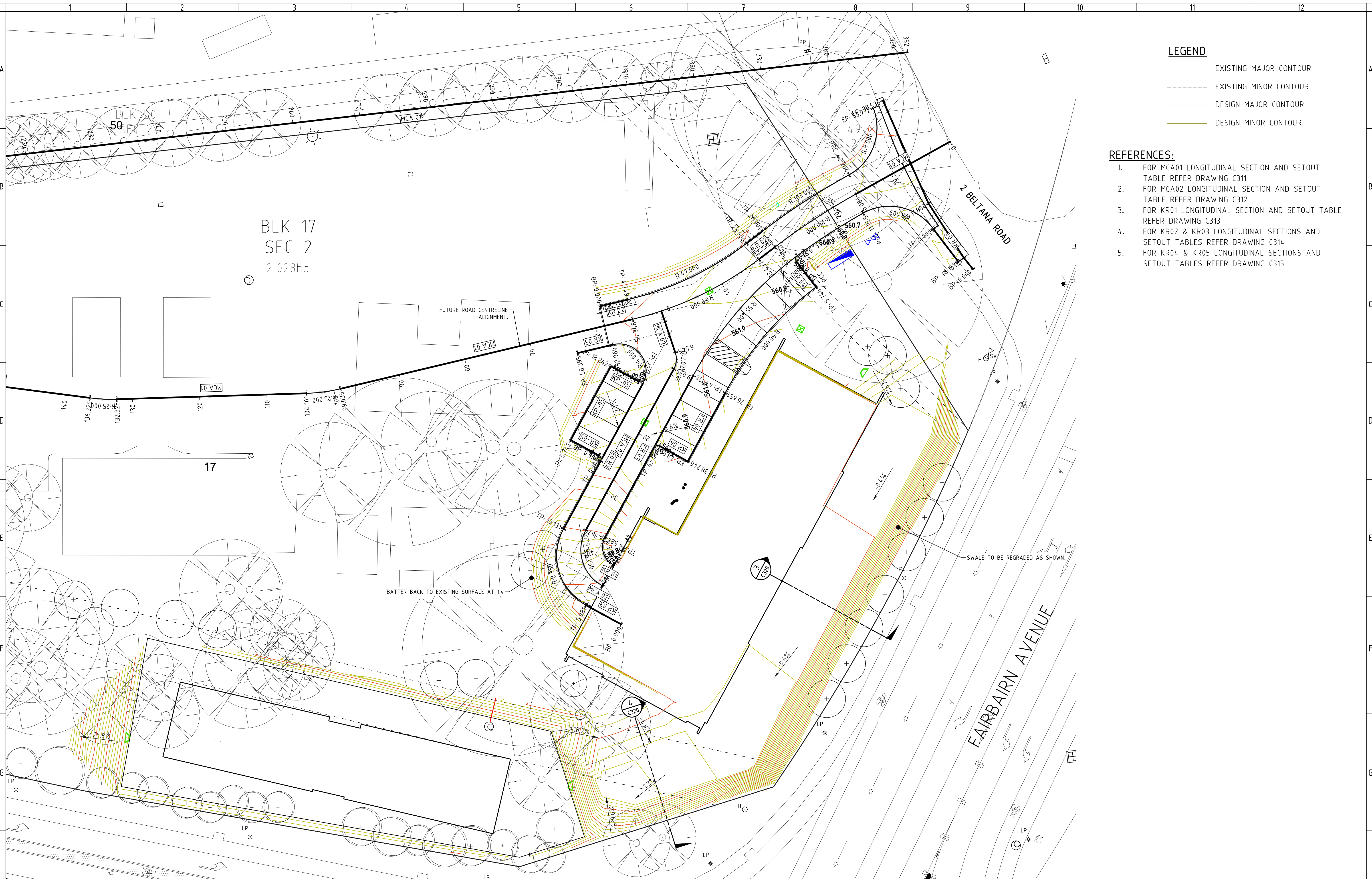


1:5@A1



1:10@A1

FOR DESIGN ACCEPTANCE		01.02.19	DA	CLIENT DR JACOB MICHELSEN	ARCHITECT TURCO AND ASSOCIATES	 STRUCTURAL CIVIL HYDRAULIC canberra sydney brisbane 02 6201 0200 www.sellickconsultants.com.au	PROJECT TITLE PIALLIGO VILLAGE AND ANIMAL REFERENCE HOSPITAL	DESIGNED BY AM	DRAWING TITLE PAVEMENT DETAILS	SCALE 1:10 @ A1	JOB NO. 161310	DRAWING NO. C303	REV. A
ISSUE	DESCRIPTION	DATE	DRAWN				DO NOT SCALE OFF DRAWINGS VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK. COPYRIGHT: The concepts and information contained in this document are copyright of Sellick Consultants. Use or copying of this document in whole or in part without written permission constitutes an infringement of copyright.	CHECKED BY CO	AUTHORISED BY	PROJECT LOCATION BLOCK 17 SECTION 2 PIALLIGO, ACT			



LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- DESIGN MAJOR CONTOUR
- DESIGN MINOR CONTOUR

- REFERENCES:**
1. FOR MCA01 LONGITUDINAL SECTION AND SETOUT TABLE REFER DRAWING C311
 2. FOR MCA02 LONGITUDINAL SECTION AND SETOUT TABLE REFER DRAWING C312
 3. FOR KR01 LONGITUDINAL SECTION AND SETOUT TABLE REFER DRAWING C313
 4. FOR KR02 & KR03 LONGITUDINAL SECTIONS AND SETOUT TABLES REFER DRAWING C314
 5. FOR KR04 & KR05 LONGITUDINAL SECTIONS AND SETOUT TABLES REFER DRAWING C315

ISSUE	DESCRIPTION	DATE	DRAWN
1	FOR DESIGN ACCEPTANCE	01.02.19	DA
2	REVISED FOR WORKS APPROVAL	22.05.18	TI
3	FOR DESIGN ACCEPTANCE	29.03.18	RT
4	REVISED FOR WORKS APPROVAL	05.10.17	NS
5	FOR DESIGN ACCEPTANCE	04.08.17	AM
6	FOR WORKS APPROVAL	21.07.17	NS

CLIENT
DR JACOB MICHELSEN

ARCHITECT
TURCO AND ASSOCIATES



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PROJECT TITLE
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DRAWING TITLE
GRADING & SETOUT PLAN

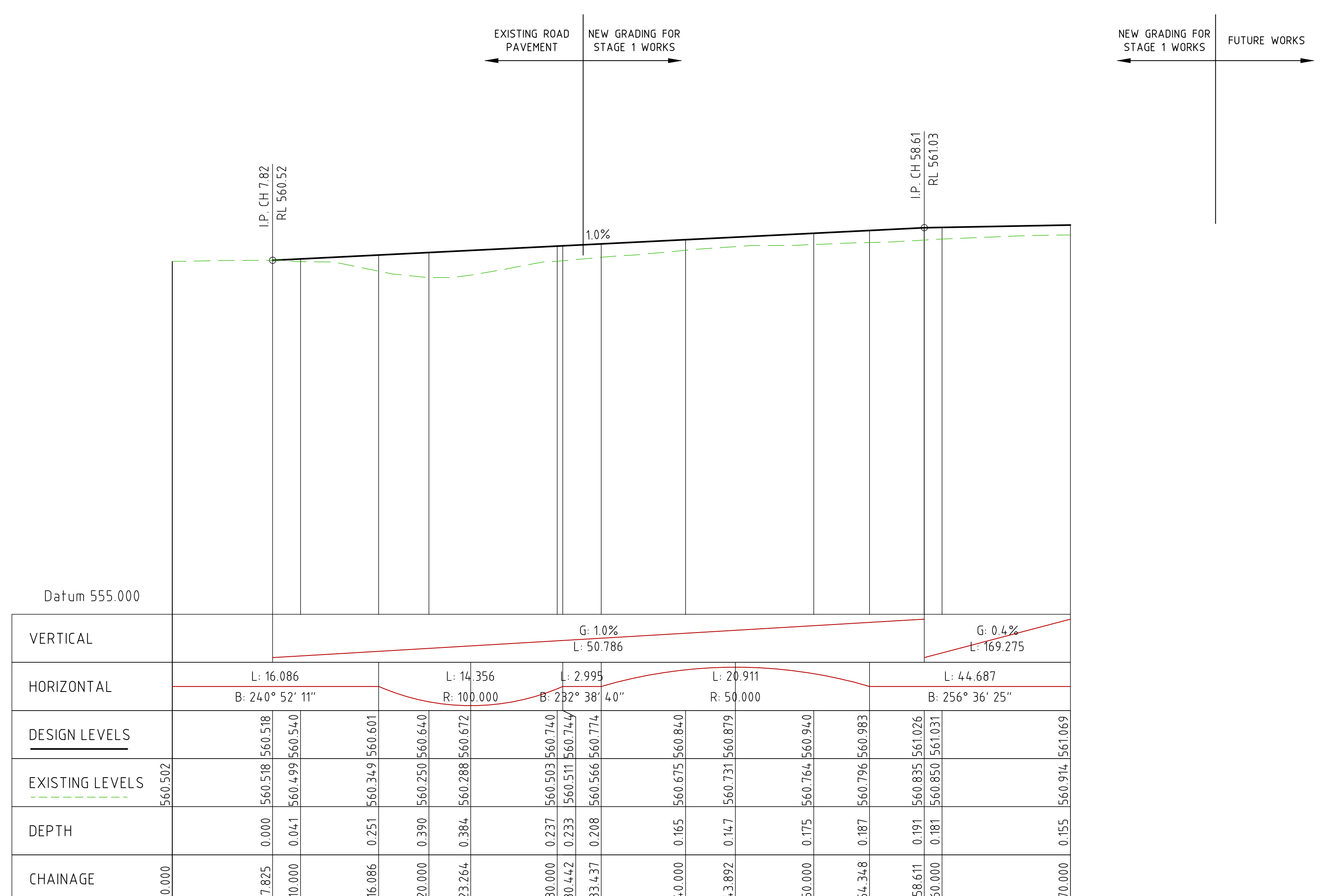
PROJECT LOCATION
**BLOCK 17 SECTION 2
PIALLIGO, ACT**

SCALE
0m 2.5 5 7.5 10 12.5
1:250 @A1 1:500 @A3

JOB NO.
161310

DRAWING NO.
C310

REV.
F

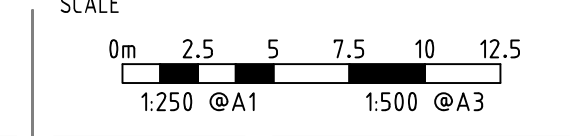
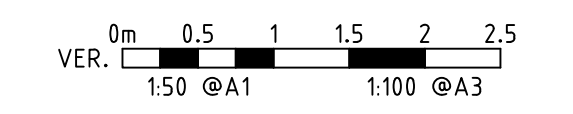


MCA 01 LONG SECTION

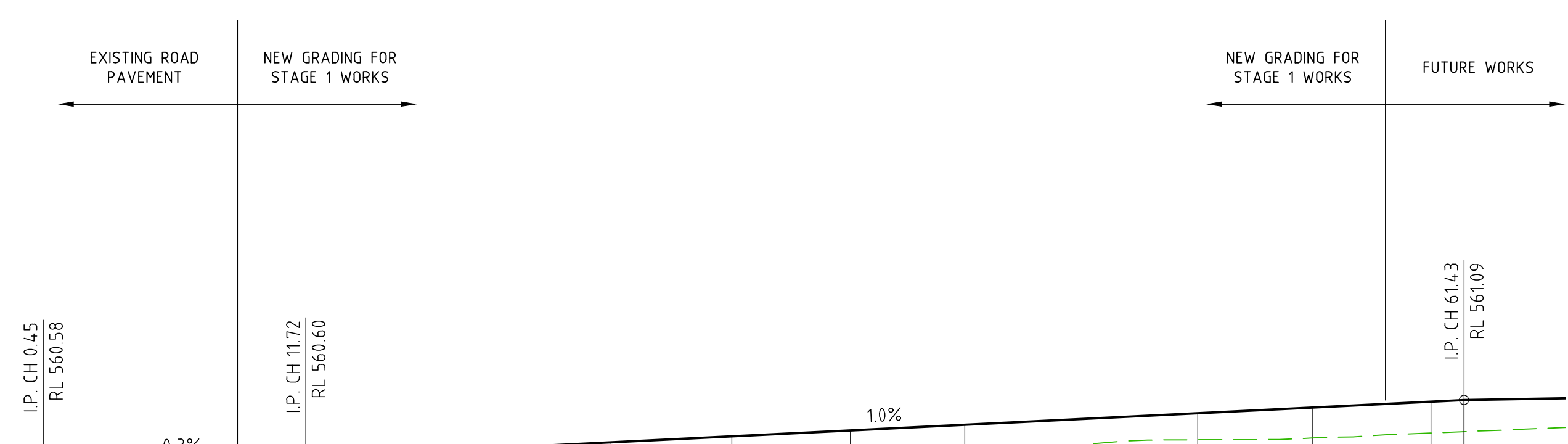
VERTICAL	G: 1.0% L: 50.786											G: 0.4% L: 169.275				
HORIZONTAL	L: 16.086 B: 24° 52' 11"			L: 14.356 R: 100.000		L: 2.995 B: 232° 38' 40"		L: 20.911 R: 50.000			L: 44.687 B: 256° 36' 25"					
DESIGN LEVELS																
EXISTING LEVELS	560.502															
DEPTH																
CHAINAGE	0.000	7.825	10.000	16.086	20.000	23.264	30.000	30.442	33.437	40.000	43.892	50.000	54.348	58.611	60.000	70.000

Set Out Table for MCA 01

	CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	BEARING
BP	0.000	215490.539	601598.622			
EP	16.086	215476.488	601590.791	16.086		240° 52' 11"
TP	16.086	215476.488	601590.791			
IP	23.276	215470.207	601587.291	14.356	100.0	236° 45' 25.66"
TP	30.442	215464.492	601582.928			
BP	30.442	215464.492	601582.928			
EP	33.437	215462.111	601581.111	2.995		232° 38' 40"
TP	33.437	215462.111	601581.111			
IP	44.048	215453.677	601574.673	20.911	50.0	244° 37' 32.67"
TP	54.348	215443.354	601572.215			
BP	54.348	215443.354	601572.215			
EP	99.035	215399.883	601561.864	44.687		256° 36' 25"
TP	99.035	215399.883	601561.864			
IP	101.577	215397.410	601561.276	5.065	25.0	262° 24' 41.42"
TP	104.101	215394.870	601561.197			
BP	104.101	215394.870	601561.197			
EP	132.328	215366.656	601560.318	28.228		268° 12' 58"
TP	132.328	215366.656	601560.318			
IP	134.331	215364.654	601560.255	3.998	25.0	272° 47' 48.79"
TP	136.326	215362.667	601560.513			
BP	136.326	215362.667	601560.513			
EP	164.974	215334.256	601564.191	28.648		277° 22' 40"
TP	164.974	215334.256	601564.191			
IP	172.974	215326.322	601565.219	12.566	8.0	322° 22' 40.00"
TP	177.541	215327.350	601573.152			
BP	177.541	215327.350	601573.152			
EP	192.456	215329.265	601587.944	14.915		007° 22' 40"
TP	192.456	215329.265	601587.944			
IP	198.711	215330.068	601594.148	10.618	8.0	045° 24' 05.00"
TP	203.074	215336.283	601594.864			
BP	203.074	215336.283	601594.864			
EP	352.021	215484.250	601611.919	148.947		083° 25' 30"



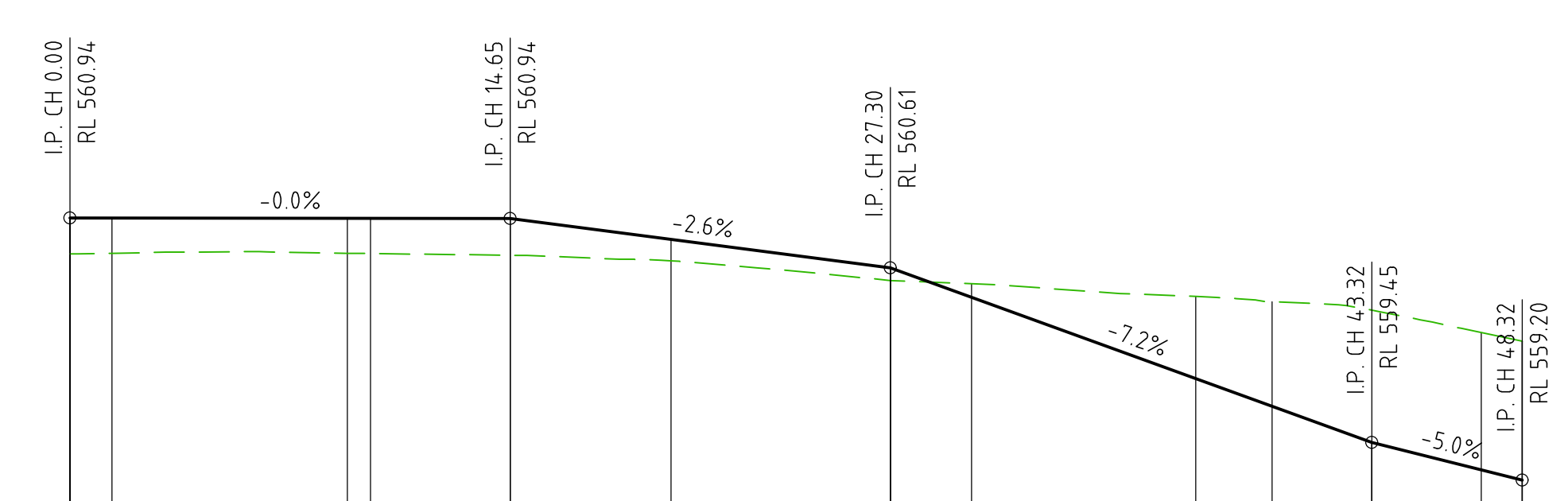
FOR DESIGN ACCEPTANCE REVISED FOR WORKS APPROVAL FOR DESIGN ACCEPTANCE REVISED FOR WORKS APPROVAL FOR REVIEW	01.02.19	DA	CLIENT DR JACOB MICHELSEN	ARCHITECT TURCO AND ASSOCIATES	STRUCTURAL CIVIL HYDRAULIC canberra sydney brisbane 02 6201 0200 www.sellickconsultants.com.au	PROJECT TITLE PIALLIGO VILLAGE AND ANIMAL REFERENCE HOSPITAL	DESIGNED BY AM	DRAWING TITLE GRADING & SETOUT SECTIONS SHEET 1	SCALE 0m 2.5 5 7.5 10 12.5 1:250 @A1 1:500 @A3
	22.05.18	TI					CHECKED BY CO		
05.10.17	NS	DATE 01/02/2019	ARCHITECT TURCO AND ASSOCIATES	ARCHITECT TURCO AND ASSOCIATES	STRUCTURAL CIVIL HYDRAULIC canberra sydney brisbane 02 6201 0200 www.sellickconsultants.com.au	DO NOT SCALE OFF DRAWINGS VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK. COPYRIGHT: The concepts and information contained in this document are copyright of Sellick Consultants. Use or copying of this document in whole or in part without written permission constitutes an infringement of copyright.	AUTHORISED BY	PROJECT LOCATION BLOCK 17 SECTION 2 PIALLIGO, ACT	SCALE 0m 2.5 5 7.5 10 12.5 1:250 @A1 1:500 @A3
04.08.17	AM						DATE 01/02/2019		
21.07.17	NS								
ISSUE	DESCRIPTION	DATE	DRAWN						



VERT EXAG 1:5
Datum 555.000

DESIGN LEVELS	EXISTING LEVELS	DEPTH	CHAINAGE
560.474	560.474	0.000	0.000
560.578	560.578	0.000	0.449
560.566	560.566	0.000	1.065
560.594	560.578	0.016	10.000
560.599	560.530	0.069	11.718
560.681	560.254	0.427	20.000
560.780	560.501	0.279	30.000
560.879	560.644	0.236	40.000
560.979	560.751	0.227	50.000
561.078	560.809	0.268	60.000
561.092	560.821	0.271	61.426

MCA 01 LONG SECTION

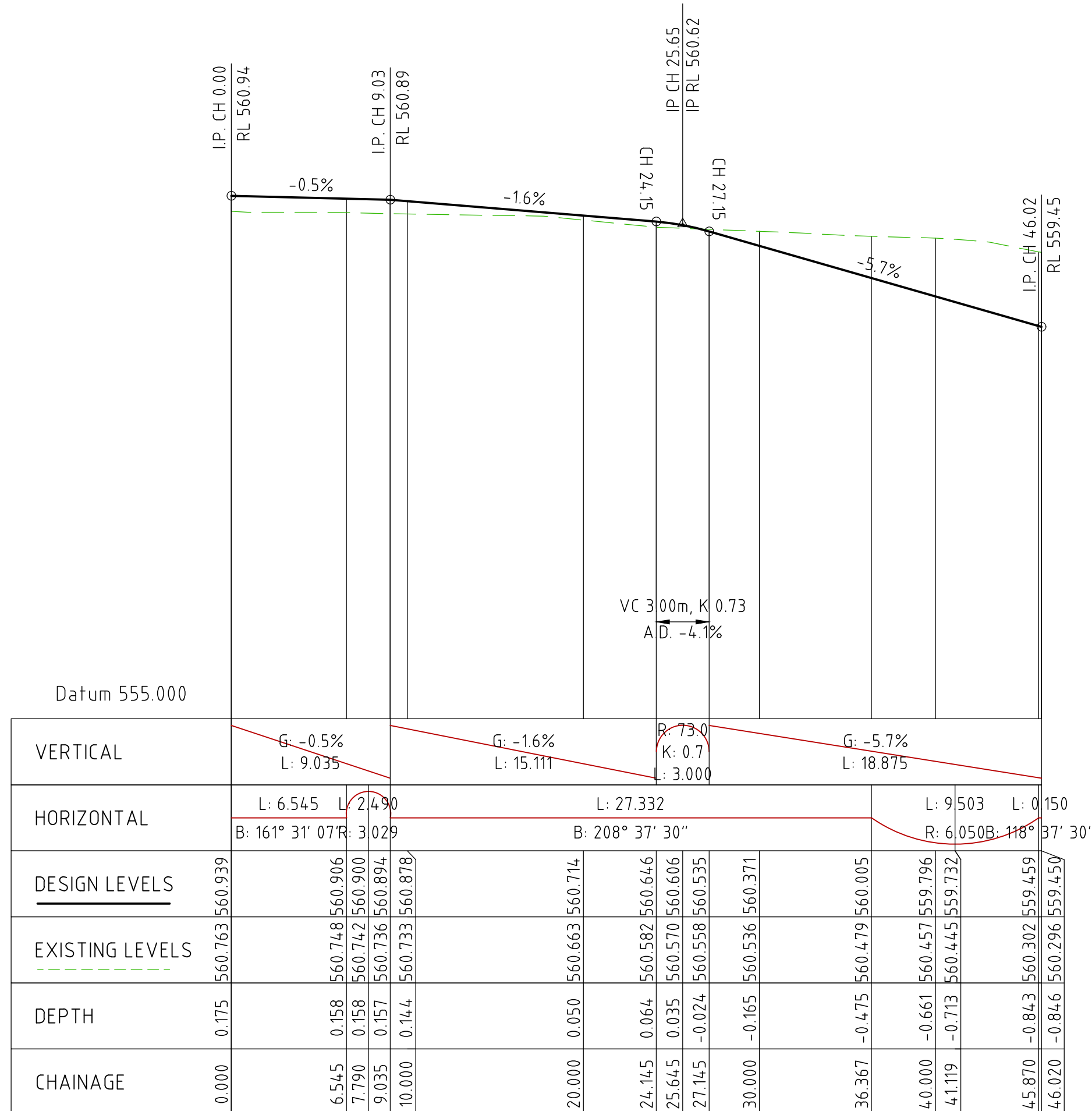


VERT EXAG 1:5
Datum 555.000

DESIGN LEVELS	EXISTING LEVELS	DEPTH	CHAINAGE
560.943	560.705	0.238	0.000
560.941	560.707	0.234	10.000
560.940	560.695	0.245	14.650
560.801	560.658	0.142	20.000
560.611	560.527	0.084	27.301
560.415	560.506	-0.091	30.000
559.691	560.386	-0.695	40.000
559.450	560.329	-0.879	43.322
559.200	560.125	-0.925	48.322

MCA 02 LONG SECTION

<p>REVISOR</p> <p>REVISOR</p> <p>REVISOR</p> <p>REVISOR</p>	<p>05.10.17</p> <p>04.08.17</p> <p>21.07.17</p> <p>DATE</p>	<p>NS</p> <p>AM</p> <p>NS</p> <p>DRAWN</p>		<p>CLIENT</p> <p>DR JACOB MICHELSEN</p>	<p>ARCHITECT</p> <p>TURCO AND ASSOCIATES</p>	<p>sellick consultants STRUCTURAL CIVIL HYDRAULIC canberra sydney brisbane 02 6201 0200 www.sellickconsultants.com.au</p>	<p>PROJECT TITLE</p> <p>PIALLIGO VILLAGE AND ANIMAL REFERENCE HOSPITAL</p> <p>DO NOT SCALE OFF DRAWINGS VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK. COPYRIGHT: The concepts and information contained in this document are copyright of Sellick Consultants. Use or copying of this document in whole or in part without written permission constitutes an infringement of copyright.</p>	<p>DESIGNED BY</p> <p>AM</p> <p>CHECKED BY</p> <p>CO</p> <p>AUTHORISED BY</p> <p>DATE</p> <p>05/10/2017</p>	<p>DRAWING TITLE</p> <p>GRADING & SETOUT SECTIONS</p> <p>PROJECT LOCATION</p> <p>BLOCK 17 SECTION 2 PIALLIGO, ACT</p>	<p>SCALE</p> <p>0m 2 4 6 8 10</p> <p>1:200 @A1 1:400 @A3</p> <p>JOB NO.</p> <p>161310</p> <p>DRAWING NO.</p> <p>C311</p> <p>REV.</p> <p>C</p>
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MCA 02 LONG SECTION

Set Out Table for MCA 02

	CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	BEARING
BP	0.000	21544.7623	601573.434	6.545		161° 31' 07"
EP	6.545	21544.9697	601567.227			
TP	6.545	21544.9697	601567.227	2.490	3.0	185° 04' 18.13"
IP	7.865	21545.0116	601565.975			
TP	9.035	21544.9483	601564.816			
BP	9.035	21544.9483	601564.816	27.332		208° 37' 30"
EP	36.367	21543.389	601540.824			
TP	36.367	21543.389	601540.824	9.503	6.0	163° 37' 29.61"
IP	42.417	21543.491	601535.514			
TP	45.870	21543.801	601532.615			
BP	45.870	21543.801	601532.615	0.150		118° 37' 30"
EP	46.020	21543.933	601532.544			

ISSUE	DESCRIPTION	DATE	DRAWN
1	FOR DESIGN ACCEPTANCE	01.02.19	DA
2	REVISED FOR WORKS APPROVAL	22.05.18	TI
3	FOR DESIGN ACCEPTANCE	29.03.18	RT

CLIENT
DR JACOB MICHELSEN

ARCHITECT
TURCO AND ASSOCIATES



PROJECT TITLE
PIALLIGO VILLAGE AND ANIMAL REFERENCE HOSPITAL

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DATE
01/02/2019

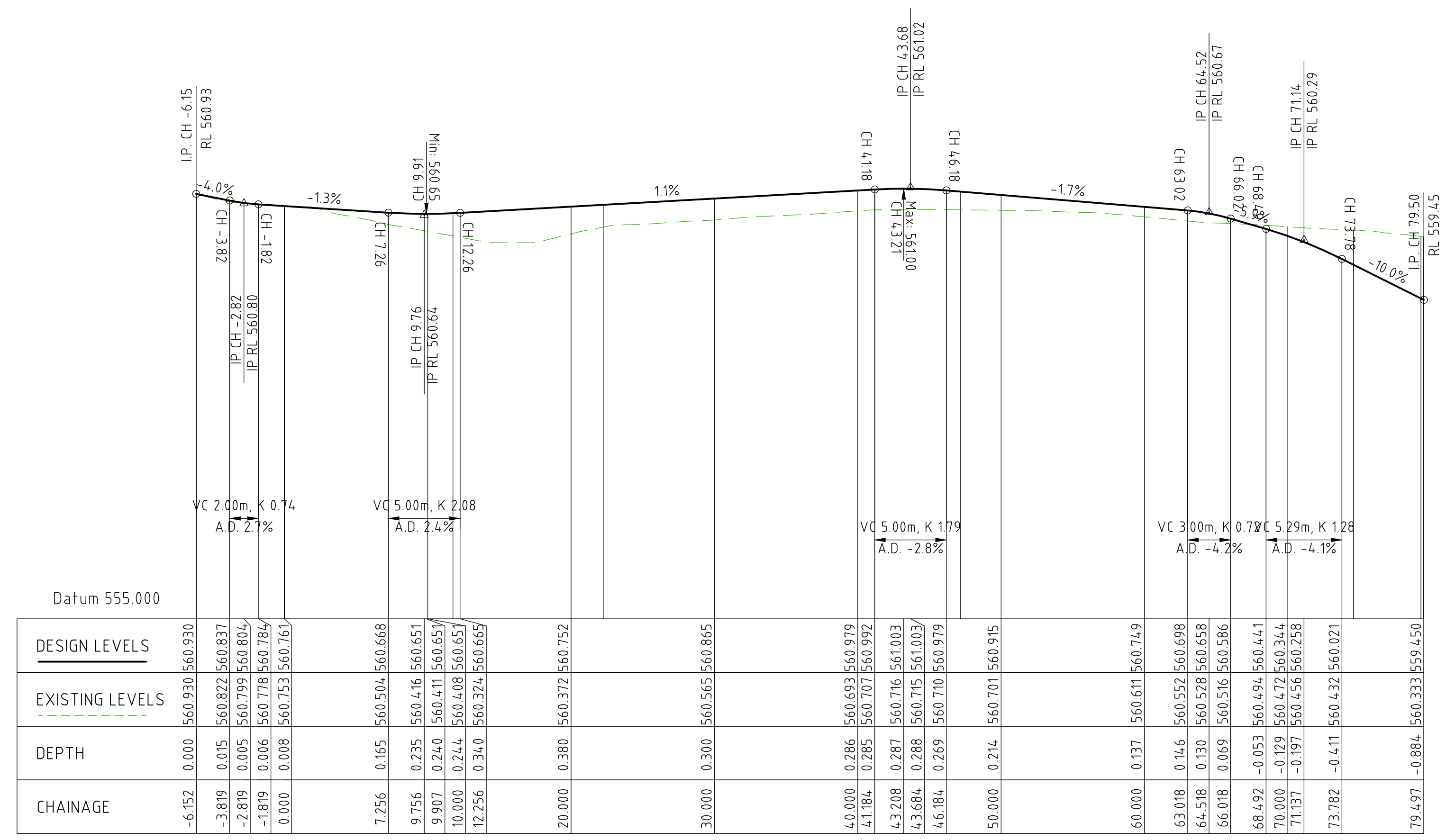
DRAWING TITLE
GRADING & SETOUT SECTIONS SHEET 2

PROJECT LOCATION
BLOCK 17 SECTION 2
PIALLIGO, ACT

VER. 1:500 @A1 1:100 @A3

SCALE
0m 2.5 5 7.5 10 12.5
1:250 @A1 1:500 @A3

JOB NO. 161310
DRAWING NO. C312
REV. C



KR 01 LONG SECTION

	0.000	0.015	0.005	0.006	0.008	0.008	0.165	0.235	0.240	0.244	0.340	0.380	0.380	0.300	0.300	0.137	0.146	0.130	0.069	-0.053	-0.179	-0.197	-0.411	-0.884	
DESIGN LEVELS	560.930	560.837	560.804	560.784	560.761	560.668	560.504	560.651	560.651	560.408	560.651	560.752	560.752	560.865	560.865	560.611	560.749	560.698	560.558	560.586	560.494	560.441	560.344	560.258	560.450
EXISTING LEVELS	560.930	560.822	560.804	560.784	560.761	560.504	560.504	560.416	560.411	560.408	560.324	560.372	560.372	560.565	560.565	560.611	560.698	560.528	560.558	560.494	560.441	560.344	560.258	560.450	560.450
DEPTH	0.000	0.015	0.005	0.006	0.008	0.165	0.235	0.240	0.244	0.340	0.380	0.380	0.300	0.300	0.137	0.146	0.130	0.069	-0.053	-0.179	-0.197	-0.411	-0.884	-0.884	
CHAINAGE	-6.152	-3.819	-2.819	-1.819	0.000	7.256	9.756	9.907	10.000	12.256	20.000	30.000	40.000	43.208	46.184	50.000	60.000	63.018	64.518	66.018	68.492	70.000	71.137	73.782	79.497

Set Out Table for KR 01

	CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	BEARING
BP	-6.152	2154.91798	601580.740	6.152		322° 39' 57"
EP	0.000	2154.88.067	601585.631			
TP	0.000	2154.88.067	601585.631			
IP	7.224	2154.83.893	601591.527	11.755	8.0	282° 39' 17.76"
TP	11.755	2154.77.599	601587.982			
TP	11.755	2154.77.599	601587.982			
IP	17.004	2154.73.026	601585.406	10.488	97.0	237° 30' 38.28"
TP	22.243	2154.68.757	601582.351			
TP	22.243	2154.68.757	601582.351			
IP	34.926	2154.58.443	601574.971	24.935	55.4	221° 31' 08.58"
TP	47.178	2154.52.368	601563.838			
BP	47.178	2154.52.368	601563.838	27.406		208° 37' 30"
EP	74.584	2154.39.238	601539.782			
TP	74.584	2154.39.238	601539.782			
IP	77.584	2154.37.801	601537.149	4.712	3.0	163° 37' 29.61"
TP	79.297	2154.40.434	601535.712			
BP	79.297	2154.40.434	601535.712	0.200		118° 37' 30"
EP	79.497	2154.40.610	601535.616			

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CLIENT
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PIALLIGO VILLAGE AND ANIMAL REFERENCE HOSPITAL

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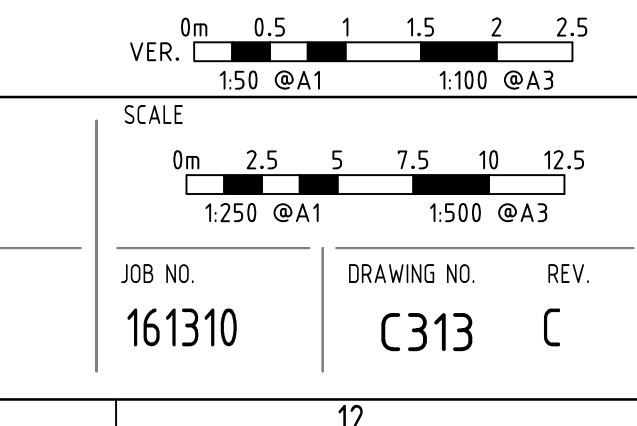
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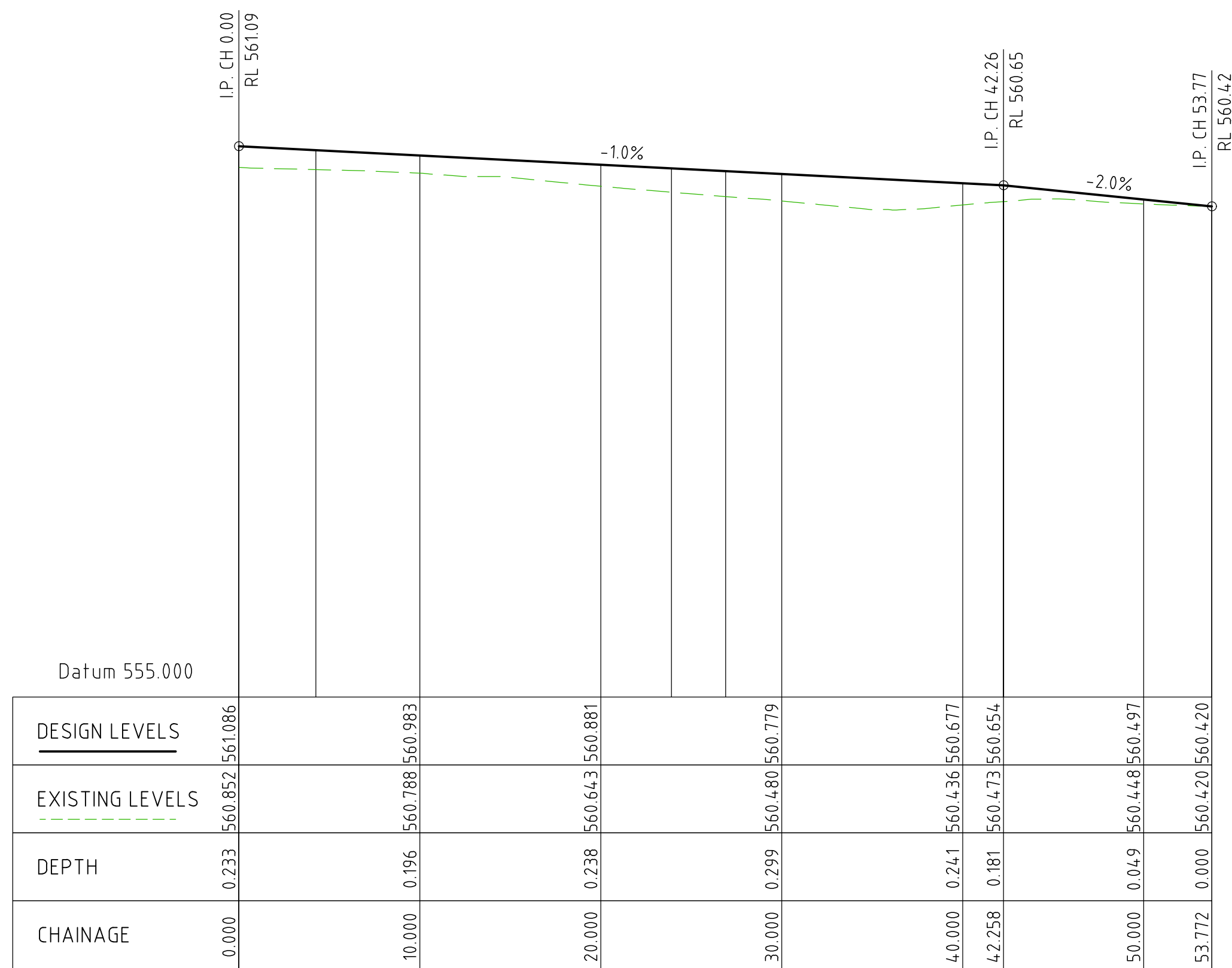
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DATE
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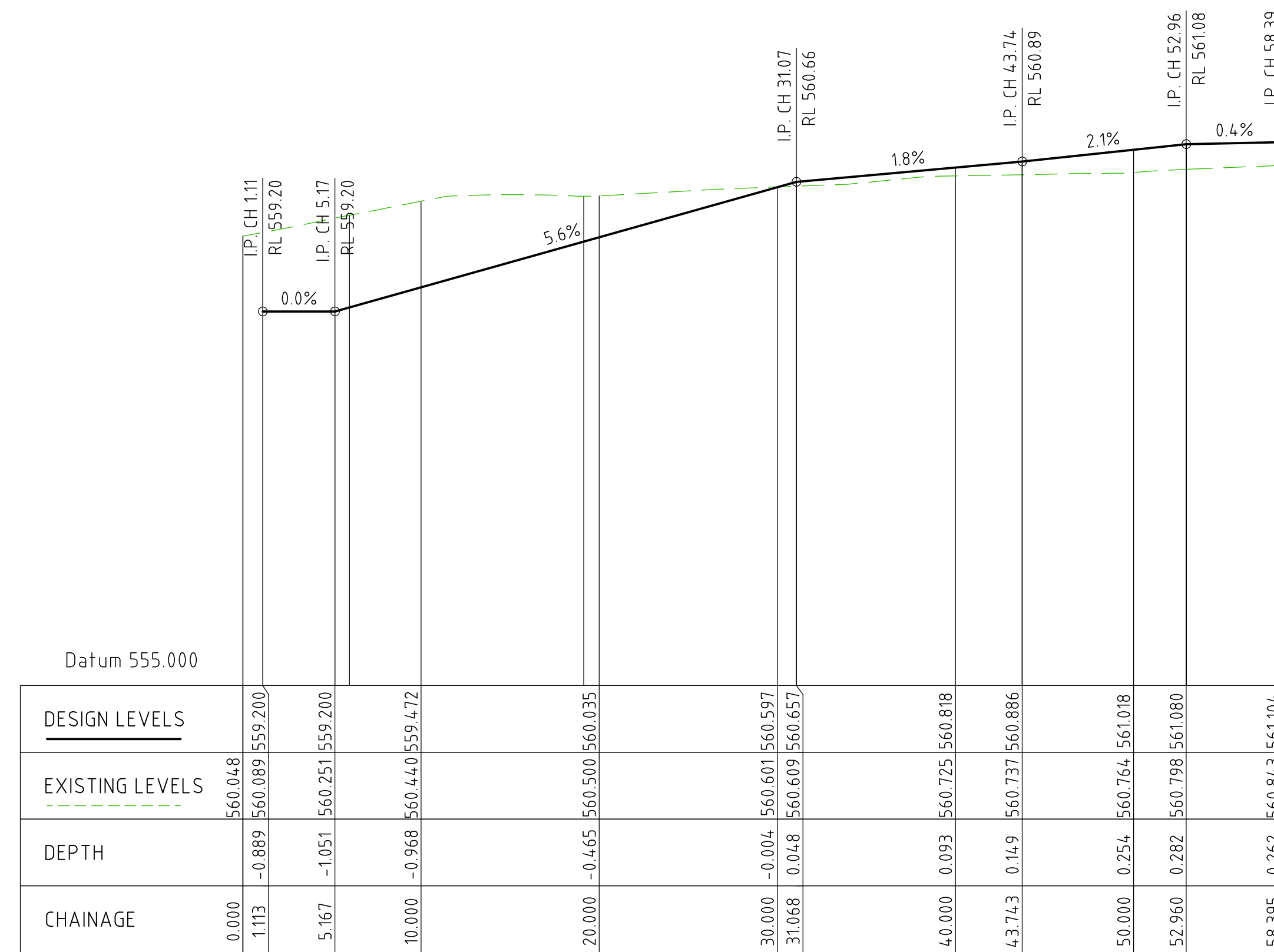
DRAWING TITLE
GRADING & SETOUT SECTIONS SHEET 3

PROJECT LOCATION
BLOCK 17 SECTION 2 PIALLIGO, ACT





KR 02 LONG SECTION



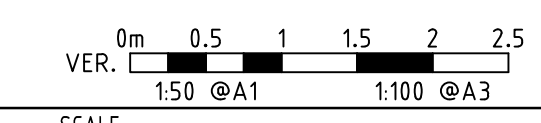
KR 03 LONG SECTION

Set Out Table for KR 02

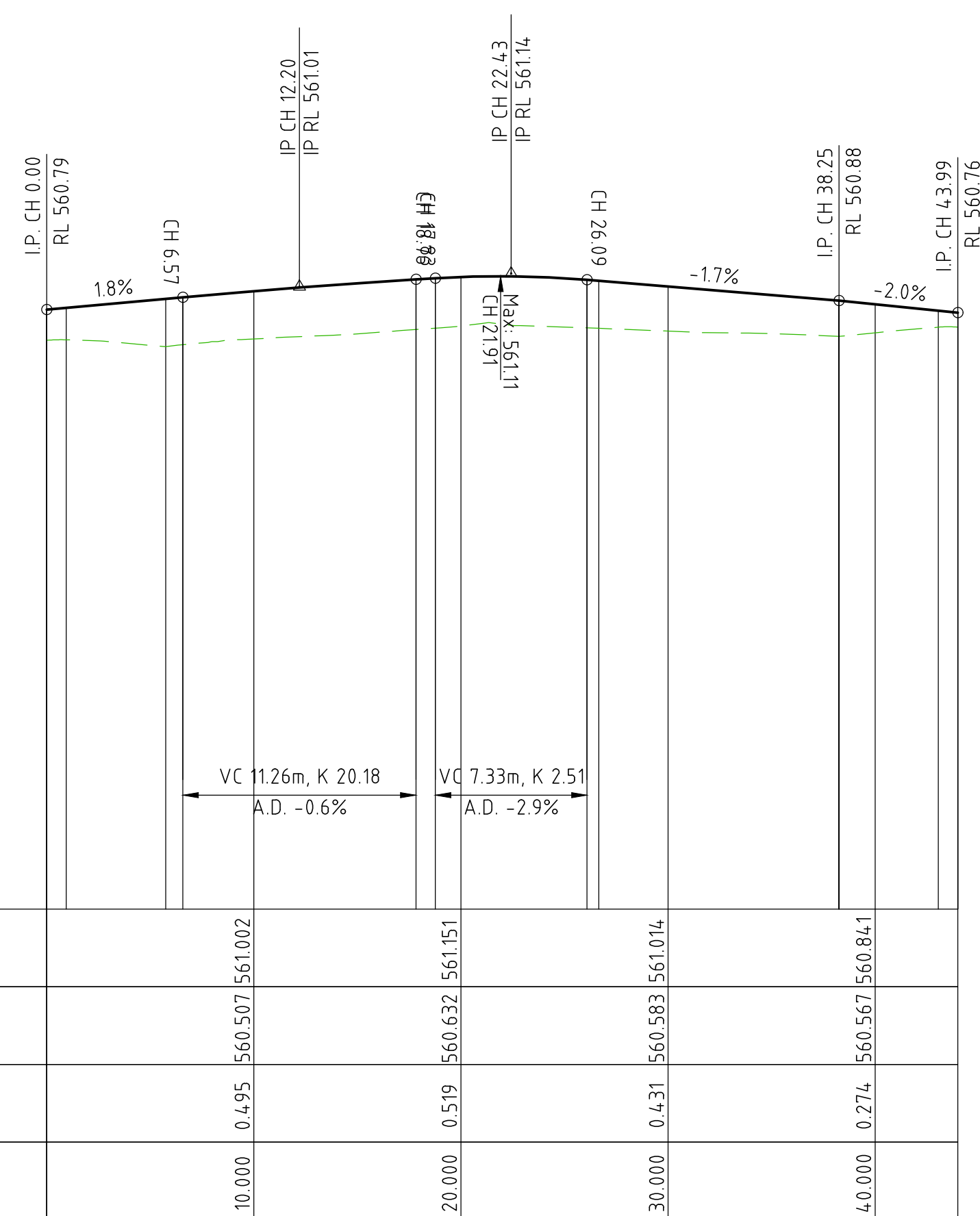
CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	BEARING
BP 0.000	215438.526	601574.149	4.249		076° 36' 25"
EP 4.249	215442.659	601575.134			
TP 4.249	215442.659	601575.134	19.657	4.70	064° 37' 32.67"
IP 14.224	215452.362	601577.444			
TP 23.906	215460.291	601583.496			
BP 23.906	215460.291	601583.496	2.995		052° 38' 40"
EP 26.901	215462.671	601585.313			
TP 26.901	215462.671	601585.313	15.363	103.0	056° 55' 03.15"
IP 34.597	215468.789	601589.983			
TP 42.264	215475.532	601593.691			
TP 42.264	215475.532	601593.691	11.507	8.0	019° 58' 57.90"
IP 49.270	215481.670	601597.067			
TP 53.772	215479.134	601603.597			

Set Out Table for KR 03

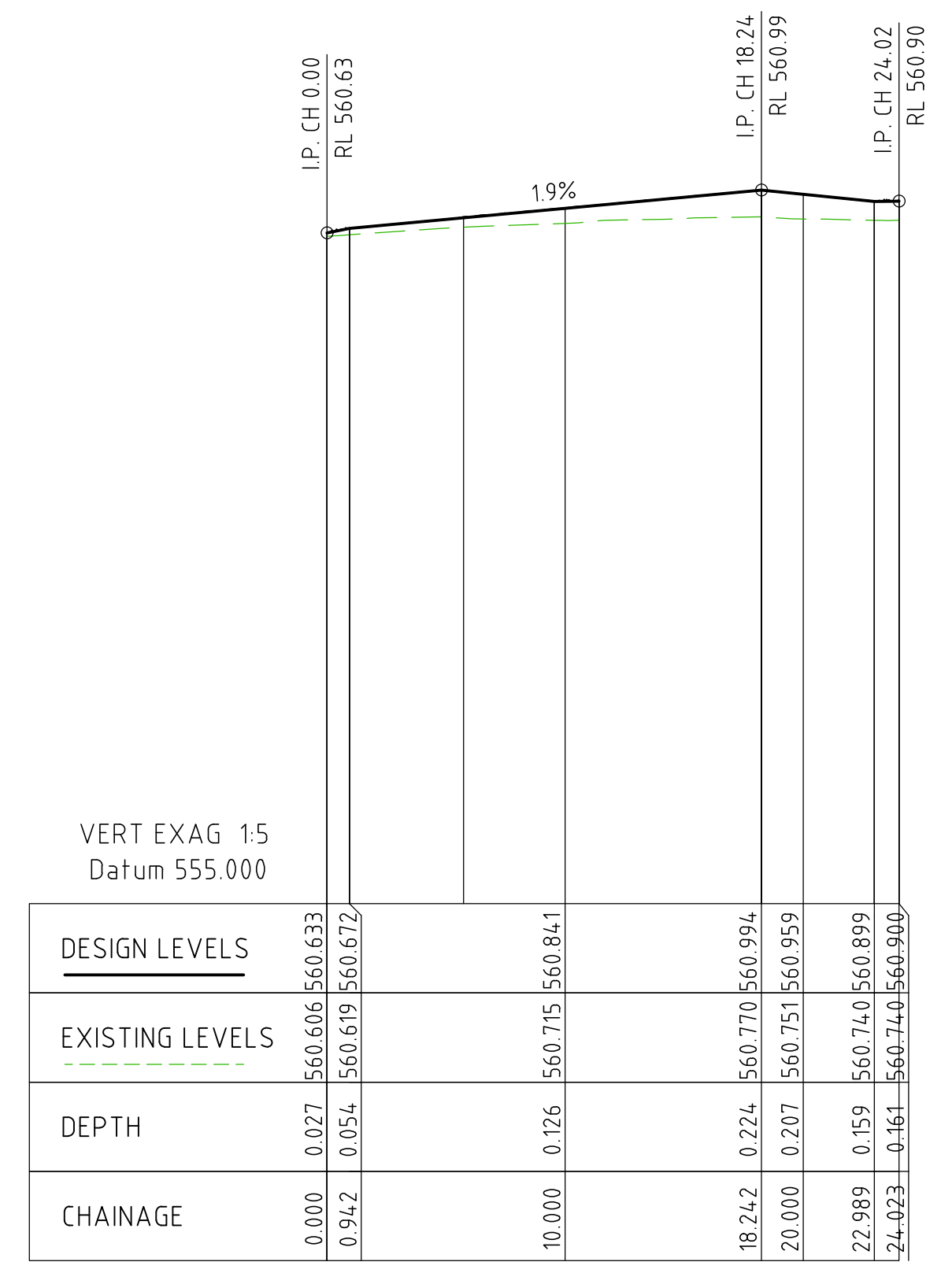
CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	BEARING
BP 0.000	215441.687	601526.820	5.981		298° 29' 34"
EP 5.981	215436.430	601529.673			
TP 5.981	215436.430	601529.673	13.149	8.4	343° 33' 31.62"
IP 14.360	215429.067	601533.670			
TP 19.131	215433.081	601541.024			
BP 19.131	215433.081	601541.024	24.613		028° 37' 30"
EP 43.743	215444.872	601562.628			
TP 43.743	215444.872	601562.628	9.217	4.0	322° 36' 57.43"
IP 52.731	215449.178	601570.518			
TP 52.960	215440.434	601568.436			
BP 52.960	215440.434	601568.436	5.435		256° 36' 25"
EP 58.395	215435.147	601567.177			



C B A ISSUE DESCRIPTION 1 FOR DESIGN ACCEPTANCE REVISED FOR WORKS APPROVAL FOR DESIGN ACCEPTANCE 2 DATE 01.02.19 22.05.18 29.03.18 DRAWN DA TI RT	CLIENT DR JACOB MICHELSEN	ARCHITECT TURCO AND ASSOCIATES	STRUCTURAL CIVIL HYDRAULIC canberra sydney brisbane 02 6201 0200 www.sellickconsultants.com.au	PROJECT TITLE PIALLIGO VILLAGE AND ANIMAL REFERENCE HOSPITAL	DESIGNED BY AM	DRAWING TITLE GRADING & SETOUT SECTIONS SHEET 4 PROJECT LOCATION BLOCK 17 SECTION 2 PIALLIGO, ACT JOB NO. 161310 DRAWING NO. C314 REV. C
	DATE 01/02/2019	CHECKED BY CO		DATE 01/02/2019		



KR 04 LONG SECTION



KR-05 LONG SECTION

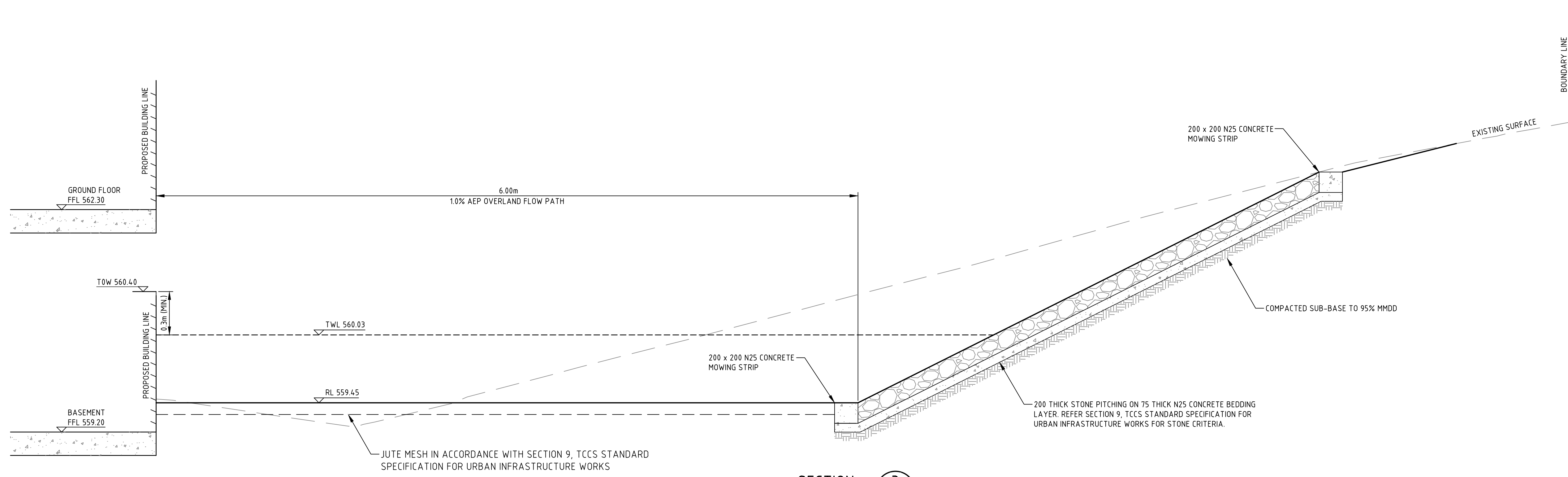
Set Out Table for KR 04

	CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	BEARING
TP	0.000	215467.815	601581.662			
IP	0.601	215467.334	601581.302	0.944	0.6	188° 08' 43.67"
TP	0.944	215467.695	601580.821			
BP	0.944	215467.695	601580.821	4.803		142° 34' 47"
EP	5.746	215470.613	601577.007			
TP	5.746	215470.613	601577.007	20.905	50.0	220° 36' 08.25"
IP	16.353	215462.189	601570.561			
TP	26.651	215457.107	601561.250			
BP	26.651	215457.107	601561.250	11.595		208° 37' 30"
EP	38.246	215451.552	601551.072			
BP	38.246	215451.552	601551.072	4.800		298° 37' 30"
EP	43.046	215447.339	601553.372			
TP	43.046	215447.339	601553.372	0.942	0.6	253° 37' 15.90"
IP	43.646	215446.812	601553.659			
TP	43.989	215446.525	601553.132			

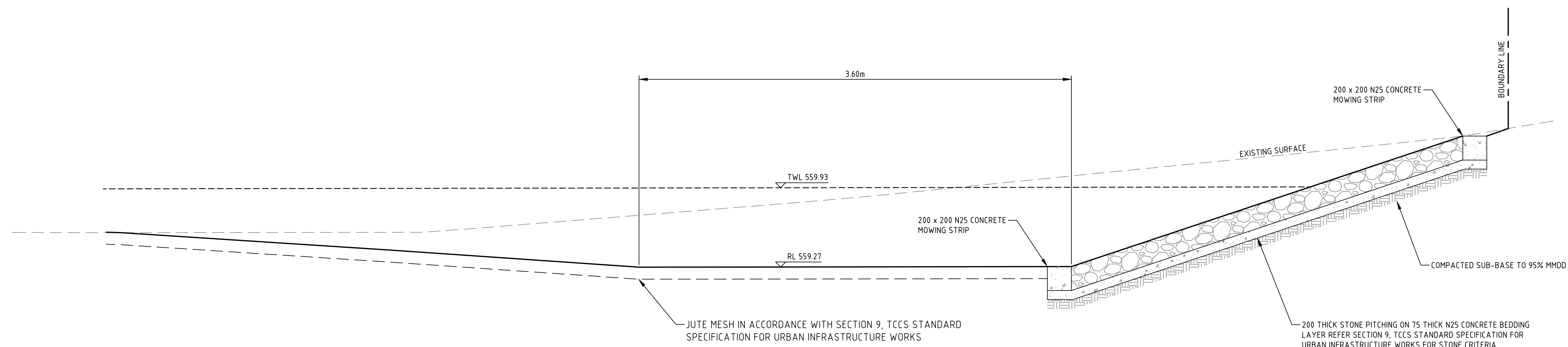
Set Out Table for KR-05

	CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	BEARING
TP	0.000	215438.596	601551.130			
IP	0.600	215438.883	601551.656	0.942	0.6	343° 37' 29.61"
TP	0.942	215438.357	601551.944			
BP	0.942	215438.357	601551.944	4.800		298° 37' 30"
EP	5.742	215434.143	601554.243			
BP	5.742	215434.143	601554.243	12.500		028° 37' 30"
EP	18.242	215440.132	601565.215			
BP	18.242	215440.132	601565.215	4.747		118° 37' 30"
EP	22.989	215444.298	601562.941			
TP	22.989	215444.298	601562.941	1.034	0.6	069° 14' 57.53"
IP	23.689	215444.912	601562.606			
TP	24.023	215445.150	601563.264			

FOR DESIGN ACCEPTANCE REVISED FOR WORKS APPROVAL FOR DESIGN ACCEPTANCE		01.02.19 22.05.18 29.03.18	DA TI RT	CLIENT DR JACOB MICHELSEN	ARCHITECT TURCO AND ASSOCIATES	STRUCTURAL CIVIL HYDRAULIC canberra sydney brisbane 02 6201 0200 www.sellickconsultants.com.au	PROJECT TITLE PIALLIGO VILLAGE AND ANIMAL REFERENCE HOSPITAL	DESIGNED BY AM	DRAWING TITLE GRADING & SETOUT SECTIONS SHEET 5	SCALE 0m 2.5 5 7.5 10 12.5 1:250 @A1 1:500 @A3
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SECTION 3
SCALE 1:20



SECTION 4
SCALE 1:20

FOR DESIGN ACCEPTANCE REVISED FOR WORKS APPROVAL ISSUE DESCRIPTION		01.02.19 22.05.18 DATE	DA TI DRAWN	CLIENT DR JACOB MICHELSEN	ARCHITECT TURCO AND ASSOCIATES	 sellick consultants STRUCTURAL CIVIL HYDRAULIC canberra sydney brisbane 02 6201 0200 www.sellickconsultants.com.au	PROJECT TITLE PIALLIGO VILLAGE AND ANIMAL REFERENCE HOSPITAL	DESIGNED BY AM	CHECKED BY CO	AUTHORISED BY	DATE 01/02/2019	DRAWING TITLE SWALE SECTIONS	PROJECT LOCATION BLOCK 17 SECTION 2 PIALLIGO, ACT	SCALE 0m 0.2 0.4 0.6 0.8 1 1:20 @A1 1:40 @A3	JOB NO. 161310	DRAWING NO. C320	REV. B
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