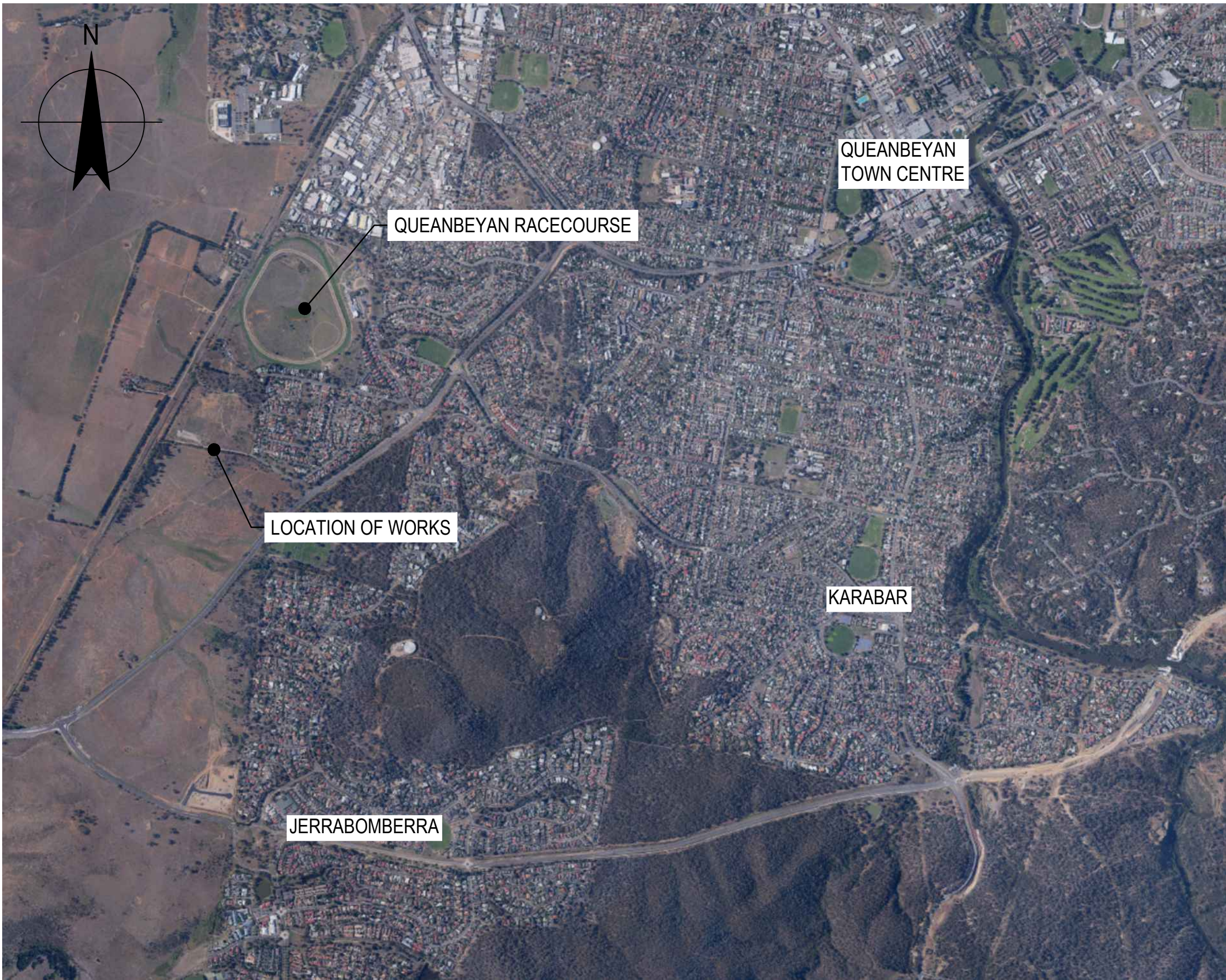




QUEANBEYAN - PALERANG REGIONAL COUNCIL

HOOVER ROAD STORMWATER REALIGNMENT

12511476



LOCALITY PLAN
NOT TO SCALE

DRAWING NUMBER	DRAWING NAME
12511476-C001	COVER SHEET DRAWING LIST AND LOCALITY PLAN
12511476-C005	GENERAL NOTES
12511476-C010	GENERAL ARRANGEMENT PLAN AND PIT SCHEDULE
12511476-C015	STORMWATER LONGITUDINAL SECTION - SHEET 1 OF 2
12511476-C016	STORMWATER LONGITUDINAL SECTION - SHEET 2 OF 2
12511476-C020	OUTLET HEADWALL CIVIL PLAN AND DETAILS
12511476-C021	STORMWATER MISCELLANEOUS DETAILS
12511476-C030	STORMWATER INSPECTION CHAMBER - CIVIL PLAN AND STRUCTURAL DETAILS
12511476-C031	STORMWATER SURCHARGE STRUCTURE - CIVIL PLAN AND STRUCTURAL DETAILS
12511476-C060	SEDIMENT AND EROSION CONTROL PLAN
12511476-C070	SEDIMENT AND EROSION CONTROL DETAILS

CONSTRUCTION

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ALL CONSTRUCTION WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH BUT NOT LIMITED TO QUEENBEAN PALERANG REGIONAL COUNCIL, RELEVANT AUSTRALIAN STANDARDS, ENGINEERING SPECIFICATIONS, BCA GUIDELINES AND ENVIRONMENTAL, LEGISLATIVE REQUIREMENTS.

A2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THEY UNDERSTAND ALL THE RELEVANT REQUIREMENTS AND SEEK CLARIFICATION AS NECESSARY DURING THE DELIVERY OF THIS PROJECT WHERE NECESSARY AND PRIOR TO UNDERTAKING THE WORKS

A3. READ THESE NOTES IN CONJUNCTION WITH THE ENGINEERING DRAWINGS, AND WITH SUCH OTHER WRITTEN INSTRUCTIONS ISSUED. REFER TO DRAWINGS FOR SETTING OUT AND DETAIL DURING WORKS. IN CASE OF DISCREPANCY, PRECEDENCE IS GIVEN TO DRAWINGS, THEN NOTES.

A4. DO NOT OBTAIN DIMENSIONS BY SCALING FROM DRAWINGS.

A5. KEEP ON SITE A COMPLETE SET OF CONTRACT DOCUMENTS (INCLUDING DRAWINGS AND NOTES) AND SITE INSTRUCTIONS.

A6. INSPECTIONS UNDERTAKEN BY SUPERINTENDENT OR OTHERS DO NOT RELIEVE CONTRACTOR OF RESPONSIBILITY FOR COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS.

A7. DRAWINGS DO NOT DETAIL TEMPORARY WORKS, CONSTRUCTION METHODS AND TEMPORARY WORKS ARE RESPONSIBILITY OF THE CONTRACTOR.

A8. SURFACES WHICH LIE OUTSIDE THE GENERAL LIMITS OF WORKS AND WHICH ARE DISTURBED ARE TO BE RESTORED TO THE PRE CONSTRUCTION CONDITION BY THE CONTRACTOR AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE SUPERINTENDENT

A9. ALL LEVELS SHOWN ARE FINISHED SURFACE LEVELS UNLESS NOTED OTHERWISE, WHERE APPLICABLE THE CONTRACTOR SHALL ALLOW FOR THE THICKNESS OF THE VARIED SPECIFIED FINISHES.

A10. THE CONTRACTOR SHALL PROVIDE ALL LABOUR, MATERIALS AND EQUIPMENT NECESSARY FOR THE ACCURATE SETTING OUT OF THE ENTIRE WORKS, THE CONTRACTOR SHALL ENSURE THAT ALL SURFACES ARE CONSTRUCTED TO THE CORRECT LEVELS, ALL WORKS AS EXECUTED INFORMATION TO BE VERIFIED BY REGISTERED SURVEYOR.

A11. THE CONTRACTOR SHALL NOT DISTURB NOR OBLITERATE ANY SURVEY MARK, SHOULD ANY SURVEY MARK BE DISTURBED OR OBLITERATED THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT IMMEDIATELY AND THE SURVEY MARK SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

A12. EXISTING SERVICES HAVE BEEN PLOTTED FROM CURRENT DBYD INFORMATION AND LIMITED SURVEY INFORMATION ONLY. THE SUPERINTENDENT DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF DATA USED AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE LOCATION AND DEPTH OF ALL EXISTING SERVICES PRIOR TO COMMENCING WORK.

A13. CONTRACTOR IS TO OBTAIN CLEARANCES AND CO-ORDINATE WORK WITH ALL RELEVANT AUTHORITIES PRIOR TO COMMENCEMENT.

A14. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE WORK HEALTH & SAFETY ACT 2011, WHICH REQUIRES EMPLOYERS TO ENSURE THE HEALTH, SAFETY AND WELFARE OF ALL THEIR EMPLOYEES AND PERSONS IN THE VICINITY OF THE WORK SITE.

A15. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

A16. THE CONTRACTOR SHALL BE PROVIDED WITH THE RESULTS OF PREVIOUS SITE INVESTIGATIONS CONDUCTED AT THE SITE FOR INFORMATION PURPOSES ONLY. IT IS THEREBY IMPLIED AND WARRANTED BY THE PRINCIPAL TO BE A COMPLETE DESCRIPTION OF CONDITIONS EXISTING AT OR BELOW GROUND LEVEL AND THE CONTRACTOR ACCEPTS ALL RISKS INVOLVED WITH INTERPRETATION AND USE OF THAT INFORMATION.

A17. THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT IMMEDIATELY OF ANY DISCREPANCIES OR ERRORS THAT MAY BE PRESENT WITH THESE PLANS.

A18. THE CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF LEVELS AND LOCATIONS OF SERVICES TO FULLY COMPLY WITH REFERENCE DOCUMENTS AND STANDARD SPECIFICATION

A20. CONTRACTOR TO PROVIDE DILATIONATION REPORT ON EXISTING CONDITIONS PRIOR TO COMMENCING WORK.

B1. DATUM FOR ALL LEVELS IS AUSTRALIAN HEIGHT DATUM (AHD). SURVEY BY
POLKINGHORNE HARRISON LONGHURST (PHL) SURVEYORS

B2. ALL SURVEY WORK REQUIRED TO PROVIDE THE SERVICES SHALL BE ARRANGED BY
THE CONTRACTOR AND SHALL BE CARRIED OUT BY APPROPRIATELY QUALIFIED
PERSONNEL. THE COST OF SURVEY SHALL BE BORNE BY THE CONTRACTOR.

B3. UNLESS NOTED OTHERWISE, COPIES OF ALL SURVEY RESULTS SHALL BE SENT TO
THE SUPERINTENDENT WITHIN 48 HOURS OF BECOMING AVAILABLE IN GRAPHICAL
AND TABULAR FORMAT.

B4. SURVEY BENCHMARKS SHALL BE ESTABLISHED IN CONSULTATION WITH THE
SUPERINTENDENT.

B5. PRIOR TO BEGINNING CONSTRUCTION OF THE WORKS, THE CONTRACTOR SHALL
ESTABLISH A SURVEY GRID OVER THE WORKS AREA. GRID SPACING SHALL BE
CONFIRMED IN CONSULTATION WITH THE SUPERINTENDENT. GRID LOCATIONS
SHALL INCORPORATE THE SET-OUT POINTS PROVIDED IN THE 'SET-OUT TABLES' IN
THE ENGINEERING DRAWINGS.

B6. THE CONTRACTOR SHALL CHECK, CONFIRM AND SATISFY THEMSELVES THAT ALL
DIMENSIONS, LEVELS AND SERVICE LOCATIONS ARE CORRECT PRIOR TO
CONSTRUCTION WORKS COMMENCING ON SITE.

B7. THE CONTRACTOR SHALL BE REQUIRED TO COMPLETE THE FOLLOWING SURVEYS
DURING THE WORKS:

1. PRIOR TO THE FOLLOWING PAVEMENT INSTALLATION, SURVEY THE ELEVATION OF THE
COMPLETED LAYER AT ALL GRID LOCATIONS AND AT ANY CHANGES IN GRADE. A
CONFORMANCE SURVEY SHALL ALSO BE PROVIDED (WITH CONSIDERATION TO THE
SURVEYED ELEVATIONS OF THE UNDERLYING SURFACE) SHOWING CONFORMING
LAYER THICKNESS WITHIN THE ALLOWABLE TOLERANCES. INCLUDE THE LOCATION OF
ADJUSTMENT CRISINGS.

B8. GENERAL ELEVATION SHALL HAVE AN ELEVATION TOLERANCE OF ± 100 mm.

B9. PAVEMENT LAYER THICKNESSES SHALL HAVE A THICKNESS TOLERANCE OF -0 mm,
 $+100$ mm.

- C1. AREAS FOR PARKING OF CONSTRUCTION PLANT, ETC SHALL BE KEPT FREE OF ANY CONTAMINANTS (EG ENGINE OIL, HYDRAULIC OIL, FUEL, KEROSENE).
- C2. DAMAGE CAUSED BY CONSTRUCTION EQUIPMENT, ETC., TO ANY NEW OR EXISTING INFRASTRUCTURE SHALL BE MADE GOOD BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE SUPERINTENDENT.
- C3. CONTRACTOR TO TAKE ALL PRECAUTIONS TO PROTECT ADJUTING STRUCTURES (RETAINING WALLS, FENCES AND BUILDINGS) AND IS FULLY RESPONSIBLE FOR RESTORATION AND REPAIR.
- C4. CONTRACTOR SHALL BE REQUIRED TO MEET THE ENVIRONMENTAL REQUIREMENTS AS SPECIFIED BY QUEANBEYAN PALERANG REGIONAL COUNCIL.
- C5. THE CONTRACTOR SHALL PREPARE AN ENVIRONMENTAL MANAGEMENT PLAN FOR THE WORKS TO IDENTIFY AND DESCRIBE ALL MANAGEMENT METHODS TO BE USED TO MANAGE ENVIRONMENTAL RISKS DURING THE WORKS. FOR APPROVAL BY THE SUPERINTENDENT PRIOR TO COMMENCING ONSITE. THE CONTRACTOR IS TO SEEK CONFIRMATION FROM QUEANBEYAN PALERANG REGIONAL COUNCIL THAT THE PLAN COMPLIES WITH THE ENVIRONMENTAL AUTHORIZATION AND ANY OTHER REQUIREMENTS AS SPECIFIED BY QUEANBEYAN PALERANG REGIONAL COUNCIL.

D1. THE CONTRACTOR SHALL NOT DISTURB THE FOOTINGS OF EXISTING STREET LIGHTING AND POWER POLES WHICH ARE NOT TO BE RELOCATED.

D2. THE CONTRACTOR IS TO DEMONSTRATE CARE WHEN OPERATING VEHICLES AND MACHINERY IN THE VICINITY OF OVERHEAD POWER LINES.

- E1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT THE SITE AND SURROUNDING AREA FROM DAMAGE RESULTING FROM STORMWATER RUNOFF.
- E2. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS NECESSARY TO PROTECT THE AREAS IMMEDIATELY ADJACENT TO THE WORKS AREA FROM NEGATIVE IMPACTS. EROSION AND SEDIMENT CONTROLS SHALL BE APPROVED BY THE SUPERINTENDENT AND SHALL COMPLY WITH APPLICABLE REQUIREMENTS.
- E3. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IMPLEMENTED AND MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION TO MINIMISE THE EFFECTS OF WEATHER TO THE SATISFACTION OF THE SUPERINTENDENT.
- E4. NO EXTENSIONS OF TIME WILL BE GRANTED SHOULD DAMAGE TO THE WORKS AND SURROUNDING AREAS RESULT FROM THE CONTRACTOR'S NEGLIGENCE IN NOT PROVIDING ADEQUATE EROSION AND SEDIMENT CONTROL PROTECTION.
- E5. TEMPORARY EROSION AND SEDIMENT CONTROL WORKS SHALL BE REMOVED BY THE CONTRACTOR BEFORE THE END OF THE CONTRACT. ALL MATERIALS USED FOR THE TEMPORARY EROSION AND SEDIMENT CONTROL WORKS SHALL BE REMOVED FROM THE WORKS AREA OR OTHERWISE DISPOSED OF BY THE CONTRACTOR TO THE SATISFACTION OF THE SUPERINTENDENT. MAINTENANCE OF PERMANENT CONTROL MEASURES ENTRUSTED INTO THE CARE AND CONTROL OF THE CONTRACTOR BY THE CONTRACT UP UNTIL THE DATE OF PRACTICAL COMPLETION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

FOLLOWING INSTALLATIONS OF ALL SEDIMENTS AND EROSION CONTROL, THE CONTRACTORS MUST ENSURE THAT:

- E6. PERIODIC APPLICATIONS OF WATER SPECIFICALLY IN THE FIRST SEVEN DAYS FROM ESTABLISHMENT AND TURFED AREAS AND/OR IN HOT DRY WEATHER
- E7. FURTHER APPLICATION OF SEED AND FERTILISER IN AREAS OF MINOR SOIL EROSION AND/OR INADEQUATE AND VEGETATIVE ESTABLISHMENT
- E8. FURTHER WORKING TO CONTROL WEEDS AND TO MAINTAIN A COVER THAT DOES NOT IMPEDE FLOWS AND CAUSE FLOODING OR ACCUMULATION OF POOLS OF STAGNANT WATERS
- E9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ANY PONDING OCCURRING ON SITE IS TREATED PRIOR TO DISCHARGE INTO THE RECEIVING STORMWATER

F1. THE FOLLOWING IS A LIST OF ACTIVITIES TO WHICH HOLD POINTS SHALL APPLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL OBLIGATIONS ARE FULFILLED IN REGARDS TO HOLD POINTS WITHIN THE CONTRACT:

- PROVISION OF ALL SPECIFIED CERTIFICATES FOR MATERIALS USED IN THE WORKS, PRIOR TO USE, INCLUDING ALL GEOSYNTHETICS, PIPEWORK, AND OTHER SPECIFIED MATERIALS
- SUBMISSION OF INSPECTION AND TESTING PLANS FOR EACH COMPONENT OF THE WORKS
- PROVISION OF ANY OTHER REQUIRED DOCUMENTATION PRIOR TO INITIATING THE WORKS, INCLUDING SAFETY AND ENVIRONMENTAL MANAGEMENT DOCUMENTATION
- INITIAL EARTHWORKS SURVEY AND CONFIRMATION OF EXTENT OF EARTHWORKS
- SURVEY OF WORK AFTER COMPLETION OF BULK EARTHWORKS AND SUBGRADE PREPARATION
- SURVEY OF WORK AFTER COMPLETION OF PAVEMENT INSTALLATION
- SURVEY OF WORK AFTER COMPLETION OF DRAINAGE WORKS
- SUBMISSION OF WORKS AS EXECUTED DRAWINGS

F2. WHERE THE HOLD POINT RELATES TO THE CONDITION OF A SURFACE OR INSTALLED MATERIAL, THE CONTRACTOR SHALL VERIFY THAT THE COMPLETED SURFACE HAS ACHIEVED FULL CONFORMANCE WITH THE CONTRACT DOCUMENTS. HOLD POINTS MAY BE RELEASED FOR PART OF THE WORKS AREA ONLY, AS DEFINED BY THE SUPERINTENDENT, SO THAT THE WORKS CAN BE COMPLETED IN A SEQUENCED MANNER. THE SUPERINTENDENT'S APPROVAL OF THE COMPLETED ITEMS IS REQUIRED PRIOR TO THE RELEASE OF EACH HOLD POINT.

F3. THE CONTRACTOR SHALL BE REQUIRED TO STOCKPILE ANY EXCAVATED MATERIAL SUITABLE FOR DAILY COVER IN THE AREA SHOWN ON THE DRAWINGS. THE SUPERINTENDENT SHALL CONFIRM THE RELEVANT SPECIFICATIONS FOR DAILY COVER MATERIAL PRIOR TO CONSTRUCTION.

F4. IN THE EVENT THAT ANY LIVESTOCK ENTER THE WORKS AREA, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE SUPERINTENDENT TO ALLOW THE FARMER TO REMOVE FROM SITE.

G1. REFER TO GHD'S REVIEW OF ENVIRONMENTAL FACTORS REPORT DATED NOVEMBER 2019.

G2. ANY EXISTING TREES WHICH FORM PART OF SOUTHERN VERGE OF HOOVER ROAD SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:

G3. PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE.

G4. ENSURING THAT NOTHING IS NAILED TO ANY PART OF THE TREE.

G5. CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY. COUNCILS AND/OR INDEPENDENT ARBORISTS TO BE CONSULTED WHERE OTHER TREES, TREE ROOTS ARE TO BE REMOVED AND/OR CUT.

H1. ALL UTILITY SERVICES INDICATED ON THE DRAWINGS ORIGINATE FROM COUNCIL SUPPLIED DATA, SURVEY BY PHL SURVEYORS OR DIAL BEFORE YOU DIG SEARCHES. THEREFORE THEIR ACCURACY AND COMPLETENESS IS NOT GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE AND CONFIRM THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY. NOTE SERVICE AUTHORITY REQUIREMENTS FOR LOCATING OF SERVICES PRIOR TO COMMENCEMENT OF WORKS.

H2. CARE TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS AREA TO BE UNDERTAKEN OVER COMMUNICATION, GAS OR ELECTRICAL SERVICES. HAND EXCAVATION ONLY IN THESE AREAS.

M1. ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH AS 1742. AND APPROVED TRAFFIC MANAGEMENT PLAN

J1. ALL EARTHWORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH AS3798-2007.

J2. ALL EARTHWORKS SHALL BE UNDERTAKEN USING CONVENTIONAL EARTHMOVING EQUIPMENT AND METHODS E.G. DOZERS, EXCAVATORS, ROCK BREAKERS, AND OTHER EQUIPMENT TYPICAL TO THIS TYPE OF PROJECT.

J3. THE CONTRACTOR SHALL UNDERTAKE ALL CLEARING, GRUBBING AND GRADING NECESSARY TO EXECUTE THE WORKS. LOCAL OVER EXCAVATION TO BE BACKFILLED IN ACCORDANCE WITH AS2898-2007 AND THE SPECIFICATION.

J4. REMOVE ALL EVIDENT UNCONTROLLED FILL OR ANY SOFT, WET OR HIGHLY COMPRESSIBLE MATERIAL OR SOIL RICH IN ORGANIC MATTER INCLUDING ROOTS. CARE SHALL BE TAKEN IN THE REMOVAL OF TREE ROOTS.

J5. IF APPROVED BY THE SUPERINTENDENT, ALL IMPORTED FILL MATERIAL SHALL COMPLY WITH ONLY NATURAL EARTH AND ROCK AND SHALL BE FREE OF CONTAMINANTS (VENA). FILL SHALL COMPLY WITH THE REQUIREMENTS OF CLAUSE 4.4 OF AS3798-2007. GUIDELINES ON EARTHWORKS FOR RESIDENTIAL AND COMMERCIAL DEVELOPMENT.

J6. UNLESS STATED OTHERWISE, ALL CLEAN FILL SHALL BE PLACED IN COMPACTED LAYERS NOT EXCEEDING 200 MM AT A MOISTURE CONTENT OF -3 TO +3% OF THE OPTIMUM MOISTURE CONTENT, MINIMUM COMPACTION RATIOS SHALL BE IN ACCORDANCE WITH ITEM 1 TABLE 5.1 AS3798-2007.

J7. UNLESS STATED OTHERWISE, ALL FILL SHALL BE TESTED IN ACCORDANCE WITH THE SPECIFIED REQUIREMENTS AS SPECIFIED BY THE ENGAGED ENVIRONMENTAL CONSULTANT.

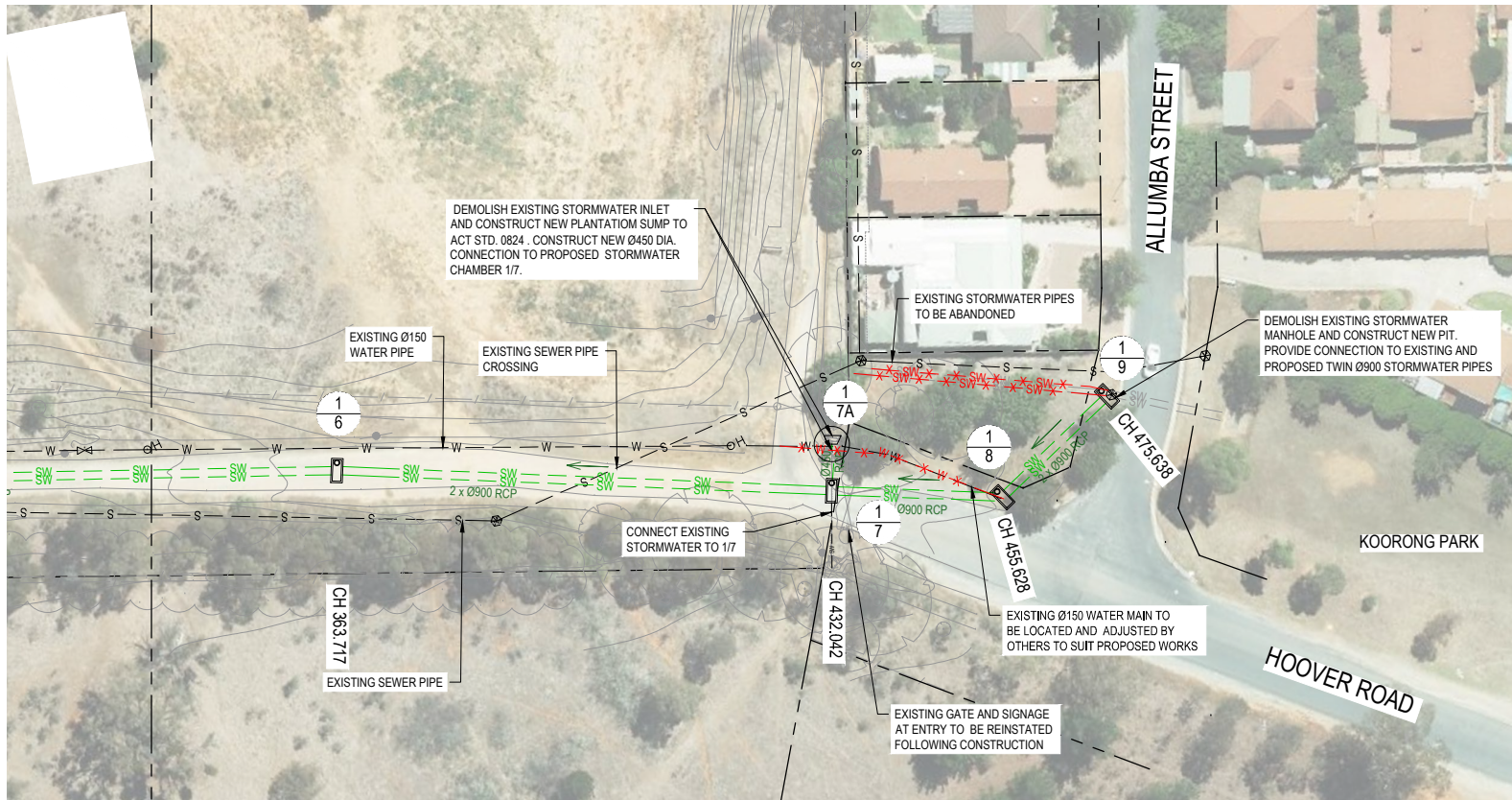
J8. HAVE TESTING PERFORMED BY AN INDEPENDENT NATA (NATIONAL ASSOCIATION OF TESTING AUTHORITIES) ACCREDITED AUTHORITY, AND PROVIDE TEST REPORTS TO SUPERINTENDENT.

J9. ALL UNSUITABLE MATERIAL IS TO BE DISPOSED OF OFF SITE AT THE CONTRACTOR'S EXPENSE TO AN APPROVED SITE WITHIN NSW AND ACCOMPANIED BY THE RELEVANT DISPOSAL PERMITS AND CERTIFICATION IN ACCORDANCE WITH THE ENGAGED ENVIRONMENTAL CONSULTANT.

- K1. CONCRETE PIPES SHALL BE INSTALLED UNDER TRENCH CONDITIONS IN ACCORDANCE WITH AS 3725 UNLESS OTHERWISE SPECIFIED.
- K2. ALL STORMWATER PIPES TO HAVE A MINIMUM OF 0.5% SLOPE IN DIRECTION SHOWN.
- K3. ALL PIPES TO BE MINIMUM 450MM BELOW LANDSCAPED SURFACES AND 600MM BELOW SURFACE IN TRAFFICABLE AREA UNO.
- K4. UNLESS NOTED OTHERWISE, THE IN-GROUND STORMWATER PIPES SHALL BE STEEL REINFORCED CONCRETE CLASS 4 APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS.
- K5. STORMWATER PIPES ARE TO BE INSTALLED IN ACCORDANCE WITH AS 3725. ALL BEDDING IS TO BE TYPE H2 UNLESS NOTED OTHERWISE.
- K6. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADE SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- K7. STORMWATER PITS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- K8. GRATES AND COVERS SHALL CONFORM WITH AS 3996-1992.
- K9. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH CURRENT STANDARDS AND CONSTRUCTION SPECIFICATIONS.
- K10. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING SERVICES WITH ALL RELEVANT AUTHORITIES BEFORE COMMENCING CONSTRUCTION.
- K11. ALL STRUCTURES TO BE CONSTRUCTED TO NEW FINISHED SURFACE LEVELS.
- K12. DATUM FOR LEVELS IS AHD, THE POSITION, SIZE, SURFACE LEVELS AND INVERT LEVELS EXISTING STORMWATER PITS ARE TAKEN FROM SURVEY DRAWINGS. THESE NEED TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- K13. ALL STORMWATER PITS SHALL BE CONSTRUCTED USING CAST IN-SITU CONCRETE
- K14. CONNECTION TO EXISTING STORMWATER PITS TO BE CARRIED OUT BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATION AND IN CONSULTATION WITH COUNCIL. MAKE REQUIRED OPENING IN THE EXISTING STORMWATER PIT WALL AT THE CONNECTION POINT OF NEW LINE. REPAIR AND MAKE GOOD THE PIT WALL INCLUDING NECESSARY ADJUSTMENT OF THO OUT BENCHING TO MATCH NEW PIPE CONNECTIONS.
- K15. STORMWATER PITS TO W80 AND A160 LOADINGS IN ACCORDANCE WITH AS 5.
- K16. ALL STORMWATER PITS TO HAVE CLASS C CAST IRON MANHOLE COVERS.

L1. THE USE OF PRE-CAST STORMWATER DRAINAGE PITS REQUIRES CONFIRMATION BETWEEN GHD ENGINEERS AND THE CONTRACTOR REGARDING QUALITY CONTROL AND CERTIFICATION OF FINISHES.

[illegible]



PIT SCHEDULE					
PIT No.	CHAINAGE	TYPE	EASTING	NORTHING	REMARKS
1-1	0.000	HEADWALL	699342.627	6084291.502	REFER DRG 12511476 - C020
1-2	9.825	STORMWATER SURCHARGE PIT	699352.226	6084289.407	REFER DRG 12511476 - C020
1-3	100.005	STORMWATER INSPECTION CHAMBER	699440.332	6084270.176	REFER DRG 12511476 - C030
1-4	200.007	STORMWATER INSPECTION CHAMBER	699538.244	6084249.836	REFER DRG 12511476 - C030
1-5	263.698	STORMWATER INSPECTION CHAMBER	699601.378	6084241.437	REFER DRG 12511476 - C030
1-6	363.717	STORMWATER INSPECTION CHAMBER	699699.830	6084223.806	REFER DRG 12511476 - C030
1-7	432.042	STORMWATER INSPECTION CHAMBER	699766.240	6084207.821	REFER DRG 12511476 - C030
1-7A		PLANTATION SUMP	699767.541	6084214.122	REFER TCCS STD -0824
1-8	455.628	STORMWATER INSPECTION CHAMBER	699789.210	6084202.384	REFER DRG 12511476 - C030
1-9	475.638	STORMWATER INSPECTION CHAMBER	699806.036	6084213.214	REFER DRG 12511476 - C030

LEGEND:

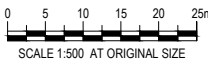
- EXISTING BOUNDARY
- W --- EXISTING WATER PIPE
- S --- EXISTING SEWER PIPE
- SW --- EXISTING STORMWATER
- ⊗ EXISTING PIT
- OH EXISTING HYDRANT
- SW --- PROPOSED STORMWATER PIPE
- ⊗ PROPOSED STORMWATER INSPECTION CHAMBER
- ⊗ PROPOSED PLANTATION SUMP
- EXISTING CONTOUR
- EXISTING TREE
- X SW X --- EXISTING STORMWATER TO BE DEMOLISHED
- X W X --- EXISTING WATER TO BE RELOCATED BY OTHERS

NOTES:

- REFER TO DRAWING Nos. 12511476-C015 TO C016 FOR STORMWATER LONGITUDINAL SECTION SHEETS.
- REFER TO DRAWING Nos. 12511476-C060 FOR SEDIMENT AND EROSION CONTROL DETAILS.
- PROPOSED WORKS MUST NOT EXTEND BEYOND THE RAILWAY

CONSTRUCTION

0	ISSUED FOR CONSTRUCTION		AA	AR	PC	13.05.20
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date



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Drawn R. KALOS

Drafting Check R. CASACLANG

Approved (Project Director) P. CHIER

Date 13.05.2020

Scale 1:500

Designer M.DOWNES

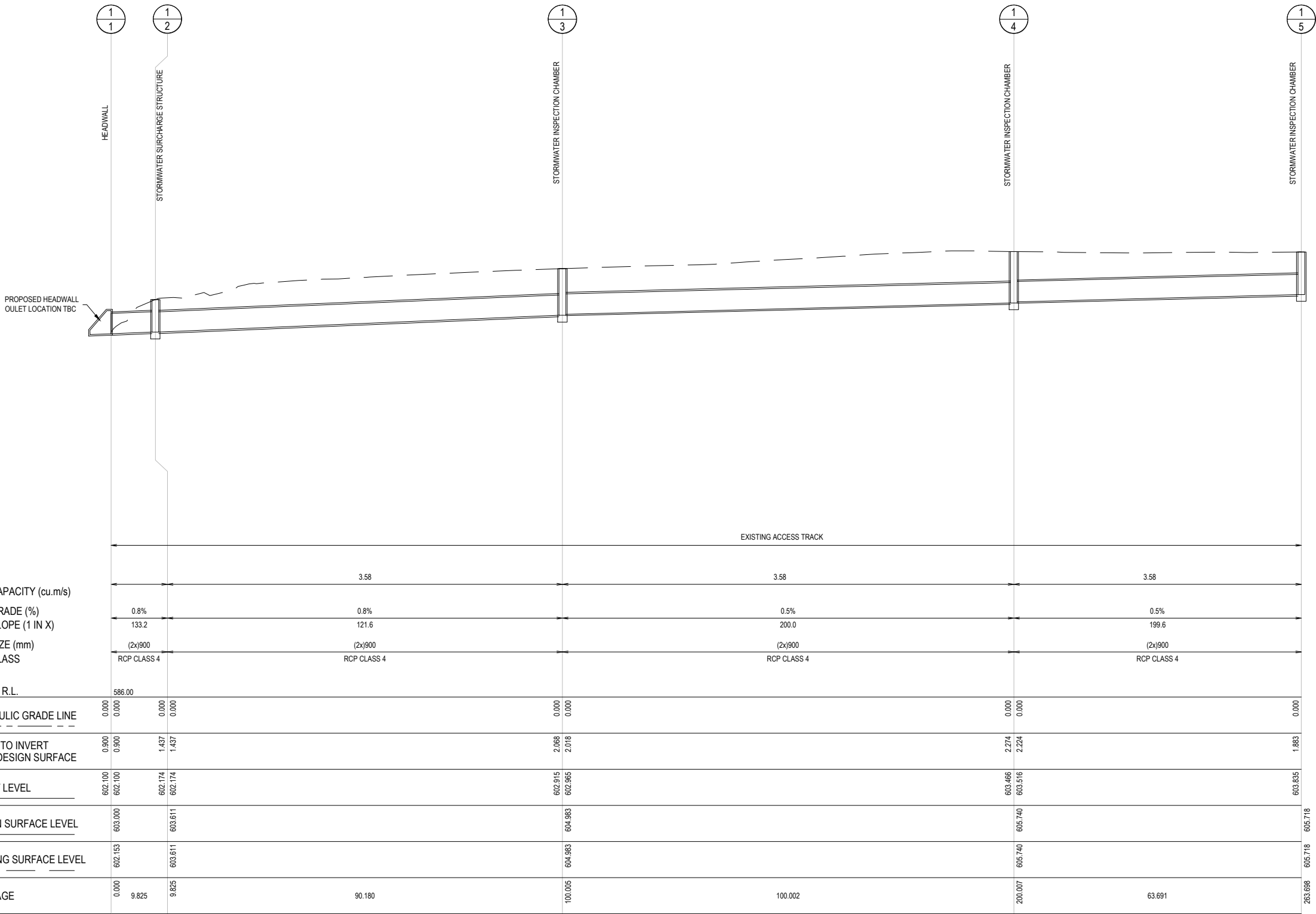
Design Check J. WEARNE

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Client QUEANBEYAN - PALERANG REGIONAL COUNCIL
Project HOOVER ROAD STORMWATER REALIGNMENT

Title GENERAL ARRANGEMENT PLAN AND PIT SCHEDULE

Original Size A1 Drawing No: 12511476-C010 Rev: 0

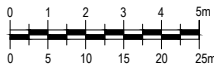


LONGITUDINAL SECTION - STRM 01
SCALE 1:500H, 1:100V

- NOTES:
1. FOR GENERAL ARRANGEMENT PLAN
REFER TO DRAWING No. 12511476-C010
 2. CONTRACTOR TO LOCATE, PROTECT AND
SUPPORT EXISTING SERVICES DURING CONSTRUCTION
 3. RELOCATED SERVICES TO ABIDE TO RELEVANT
AUTHORITY REQUIREMENTS

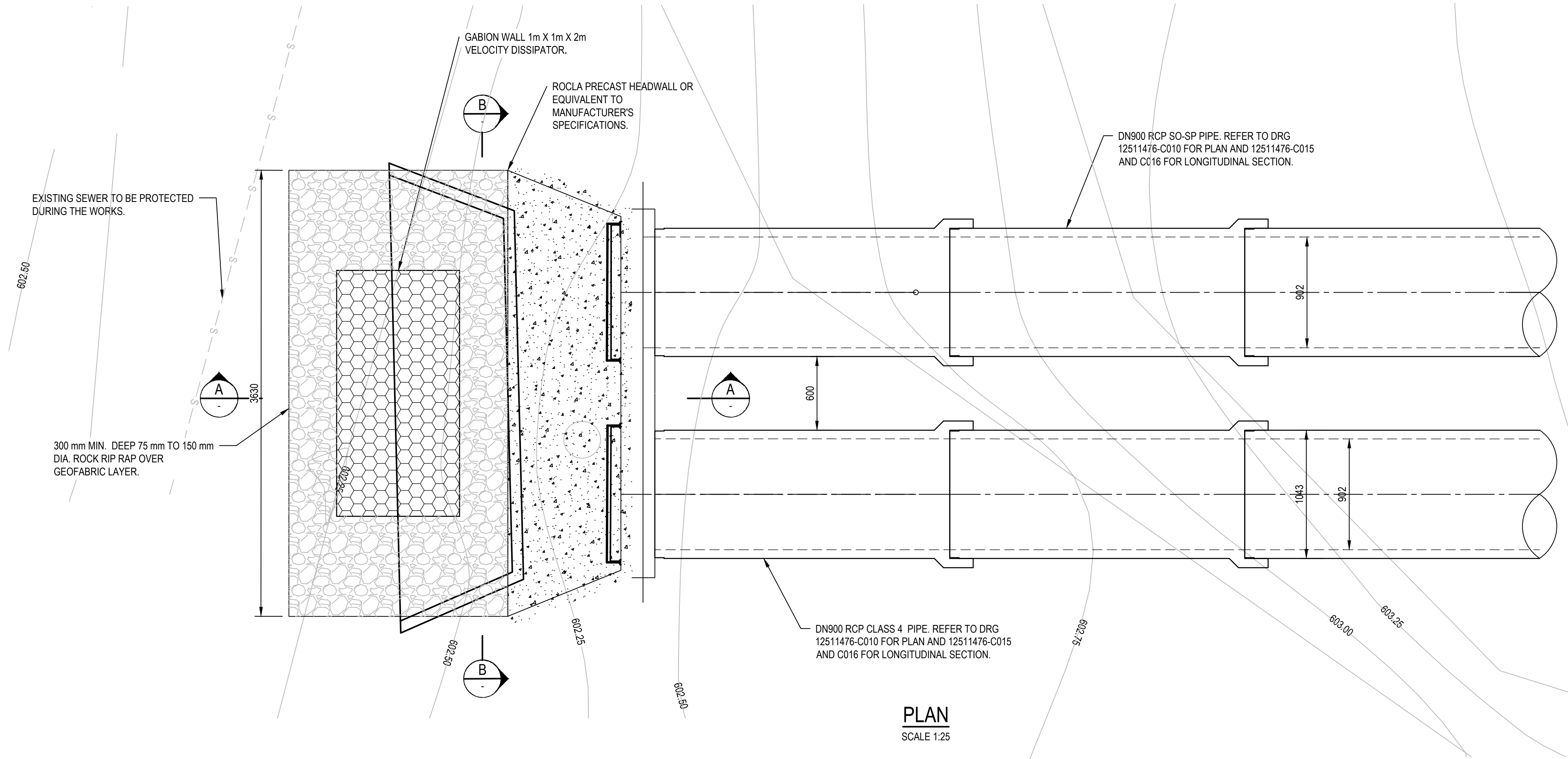
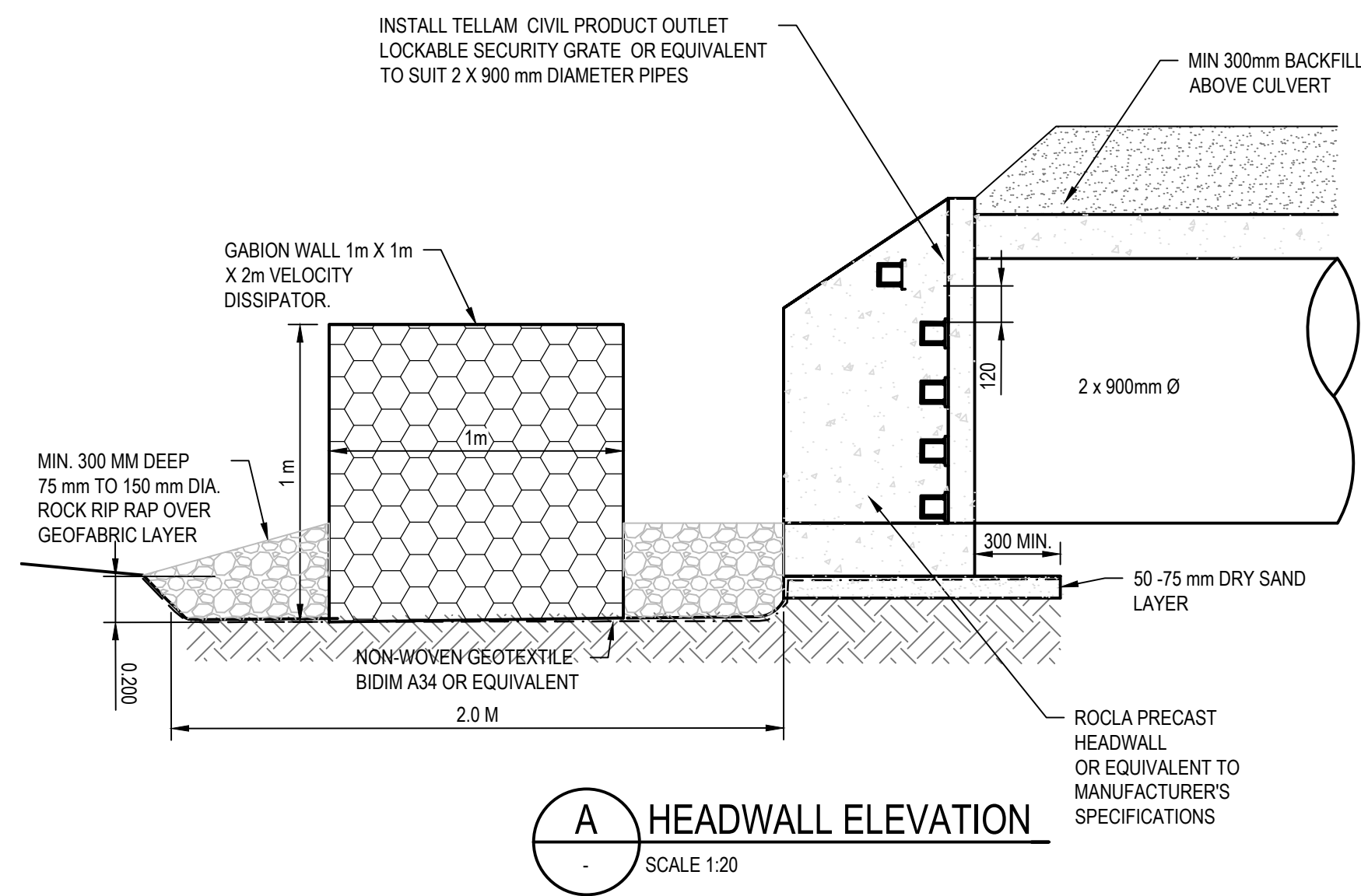
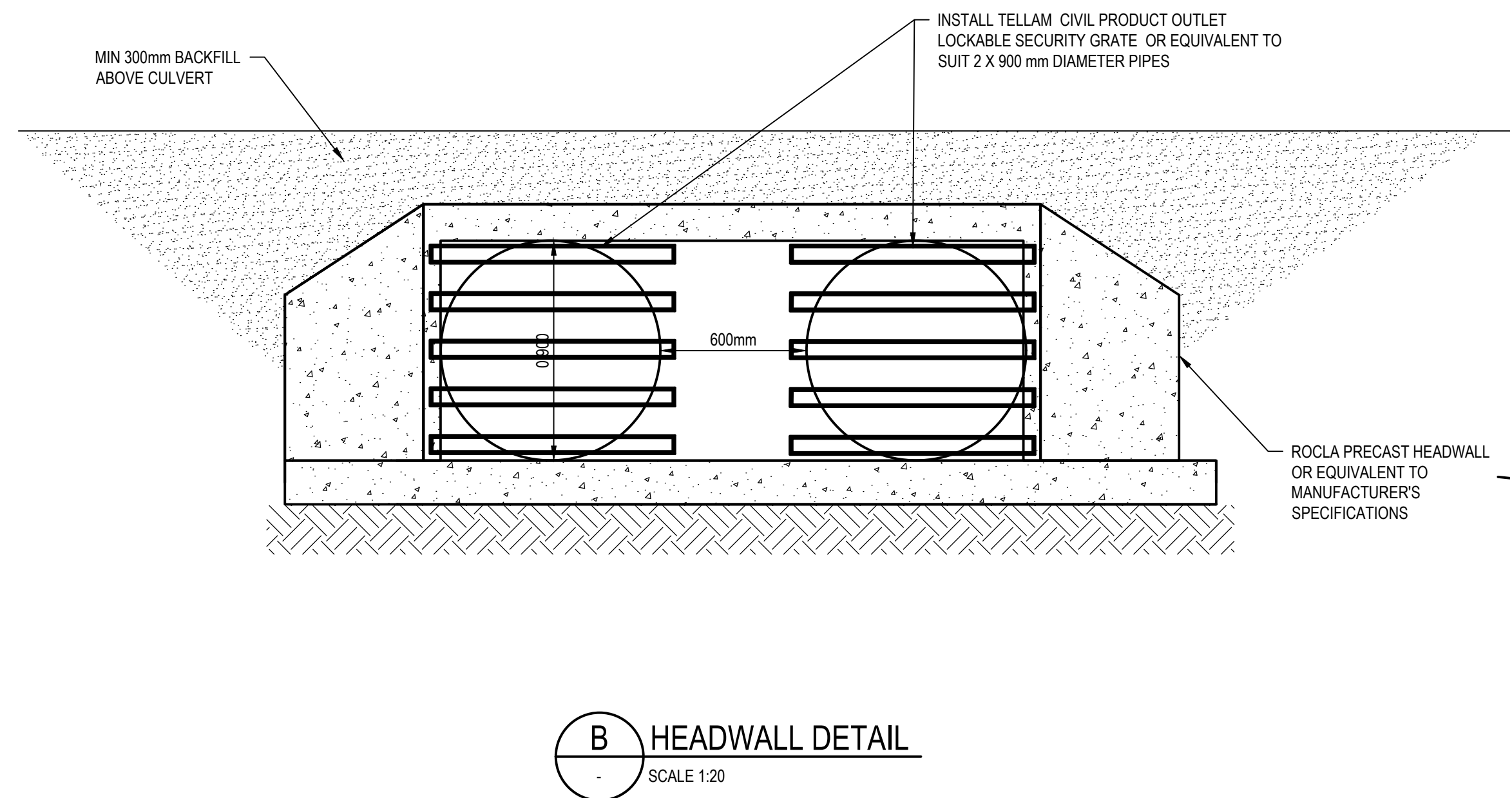
0	ISSUED FOR CONSTRUCTION	AA	AR	PC	13.05.20
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director

VERTICAL 1:100
AT ORIGINAL SIZE
HORIZONTAL 1:500
AT ORIGINAL SIZE



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	Approved (Project Director) P. CHIER	
	Date 13.05.2020	
	Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved

Client	QUEANBEYAN - PALERANG REGIONAL COUNCIL
Project	HOOVER ROAD STORMWATER REALIGNMENT
Title	STORMWATER LONGITUDINAL SECTION
Original Size	SHEET 1 OF 2
A1	Drawing No: 12511476-C015
Rev: 0	

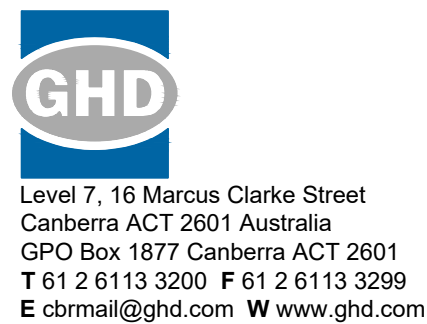


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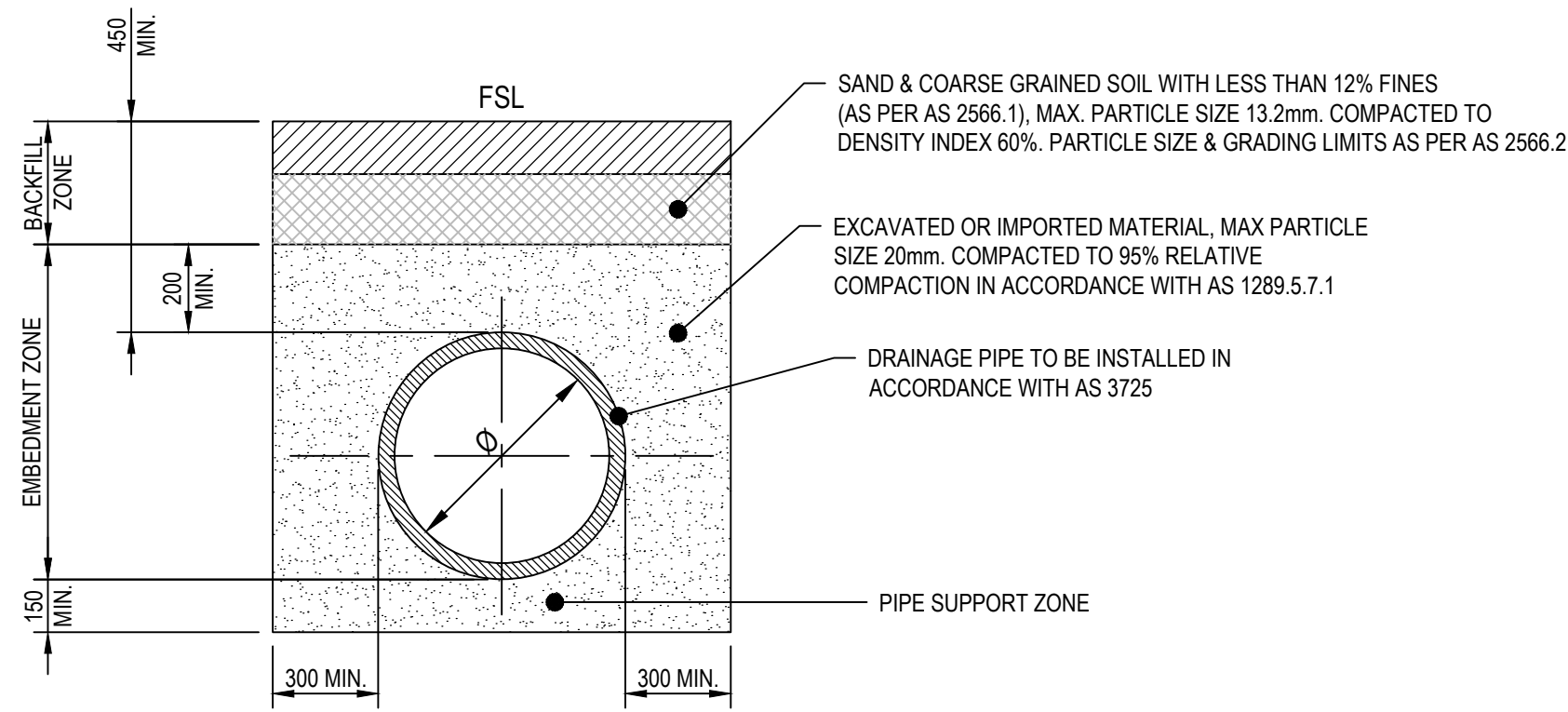
1. TELLAM CIVIL PRODUCT (TCP) DETAILS ARE UNDER <https://tellam.com.au/catalogue.pdf>
2. TELLAM PIPE OUTLET LOCKABLE SECURITY GRATE (OR EQUIVALENT) SHOP DRAWINGS ARE TO BE SUBMITTED TO THE SUPERINTENDANT FOR APPROVAL.
3. EXISTING SWALE TO BE LOCATED ON SITE. EXTENT OF SCOUR PROTECTION AND HEADWALL OUTLET TREATMENT TO BE ADJUSTED TO SUIT THE EXISTING SWALE.
4. CONTRACTOR TO LOCATE, PROTECT AND SUPPORT EXISTING SERVICES DURING CONSTRUCTION

CONSTRUCTION

0	ISSUED FOR CONSTRUCTION		AA	AR	PC	13.05.20
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

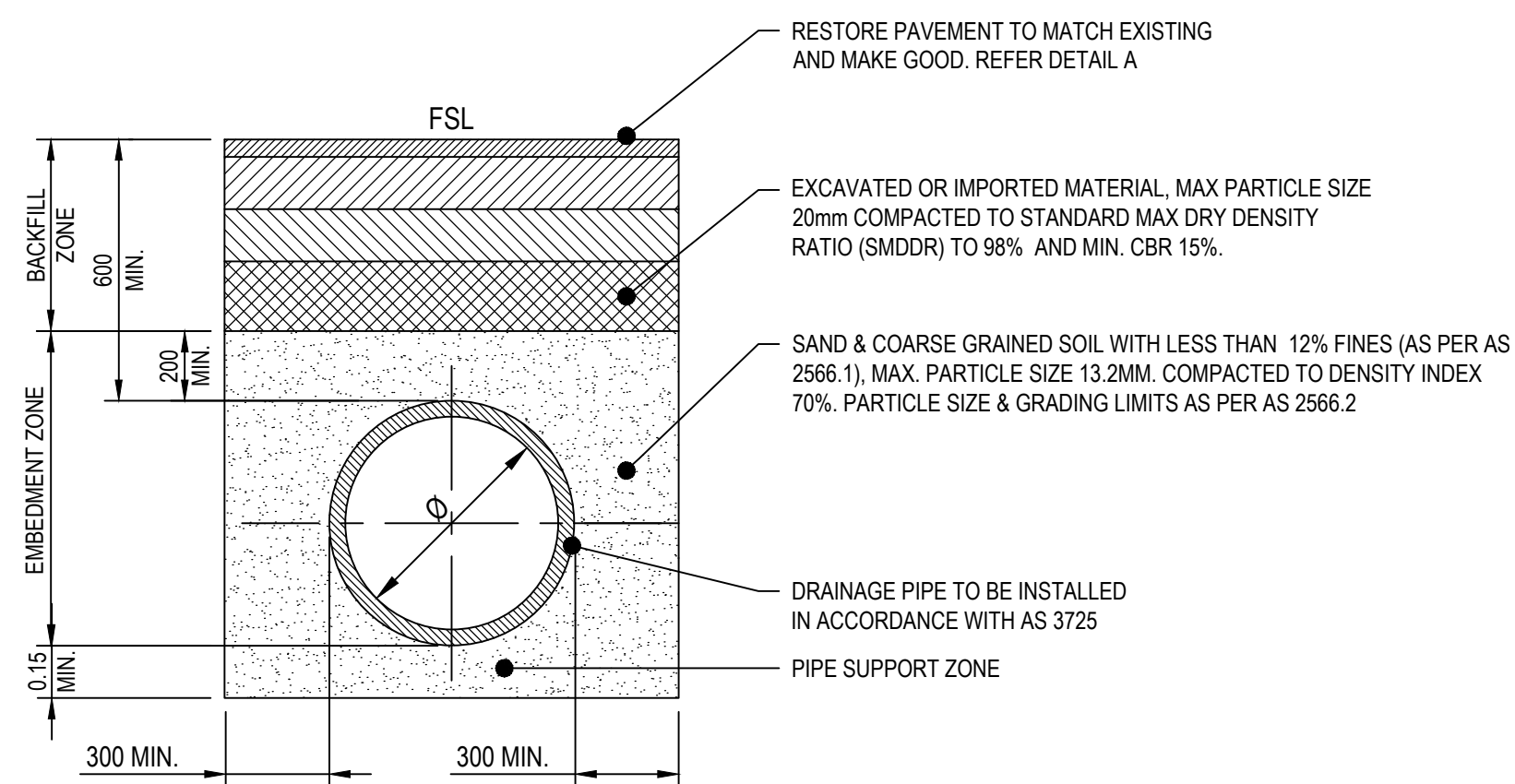


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	Drafting Check R. CASACLANG	Design Check J. WEARNE	Project HOOVER ROAD STORMWATER REALIGNMENT
	Approved (Project Director) P.CHIER	Date 13.05.2020	Title OUTLET STRUCTURE
	Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved	Original Size A1 Drawing No: 12511476-C020 Rev: 0



**TYPICAL DETAIL - BURIED UNDER
NON - TRAFFICABLE AREA**

SCALE 1:20

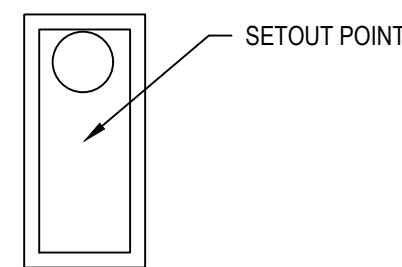


**TRENCH DETAIL - BURIED PIPE
UNDER TRAFFICABLE AREA**

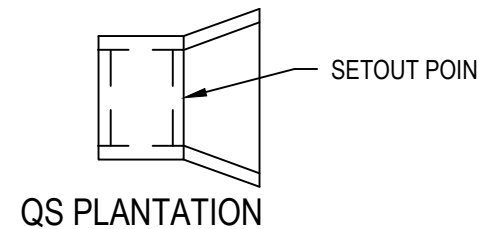
SCALE 1:20



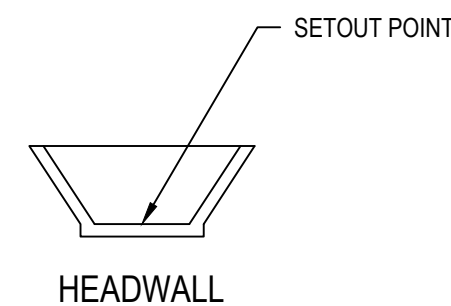
A DETAIL
SCALE 1:10



SPECIAL CHAMBERED STRUCTURE



QS PLANTATION

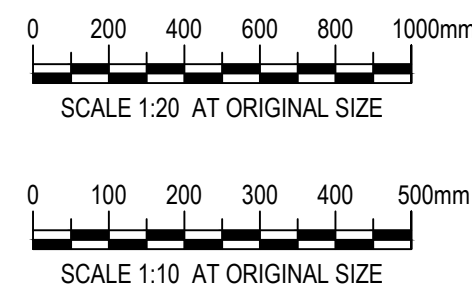
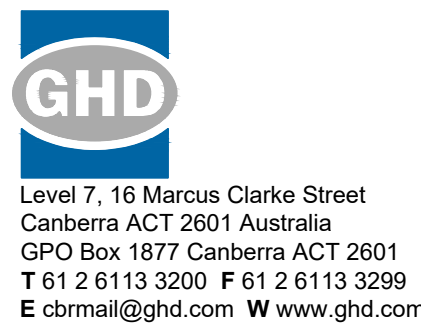


HEADWALL

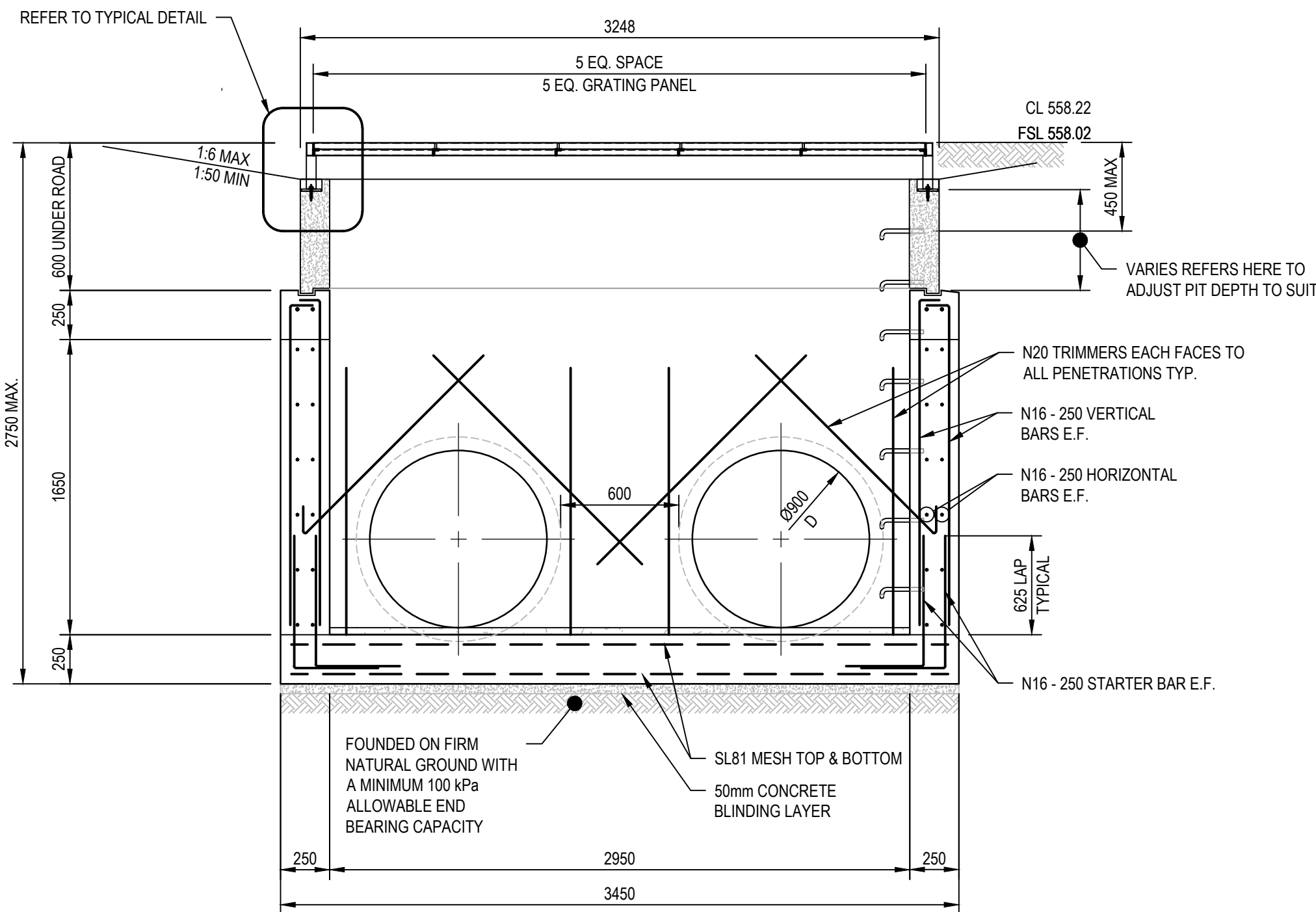
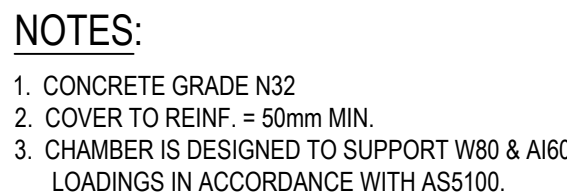
STRUCTURE SETOUT
NOT TO SCALE

CONSTRUCTION

0	ISSUED FOR CONSTRUCTION	AA	AR	PC	13.05.20
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director



DO NOT SCALE	Drawn R. KALOS	Designer M. DOWNES	Client	QUEANBEYAN - PALERANG REGIONAL COUNCIL HOOVER ROAD STORMWATER REALIGNMENT STORMWATER MISCELLANEOUS DETAILS	
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	Approved (Project Director) P. CHIER		Title		
	Date 13.05.2020				
Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved		Original Size A1	Drawing No: 23-12511476-C021	Rev: 0



1. STORMWATER PITS TO W80 AND A160 LOADINGS IN ACCORDANCE WITH AS5100
2. ALL STORMWATER PITS TO HAVE CLASS D CAST IRON MANHOLE COVERS.

1. ALL MATERIALS AND WORKSMANSHIP TO BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT S.A.A. CODES AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES.
2. SETTING-OUT DIMENSIONS AND SIZES OF STRUCTURAL MEMBERS NOT TO BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS. ANY SETTING-OUT DIMENSIONS SHOWN IN THE STRUCTURAL DRAWINGS TO BE CHECKED BY THE CONTRACTOR BEFORE CONSTRUCTION COMMENCES. REFER ANY DISCREPANCY TO THE SUPERINTENDENT BEFORE PROCEEDING WITH THE WORK.
3. DURING CONSTRUCTION IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE STRUCTURE IS MAINTAINED IN A STABLE CONDITION AND NO PART IS OVERSTRESSED. TEMPORARY BRACING TO BE PROVIDED BY THE CONTRACTOR AS REQUIRED TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
4. UNLESS NOTED OTHERWISE, ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.

1. ALL WORKMANSHIP AND MATERIALS TO BE IN ACCORDANCE WITH A.S.3600 AND THE CONCRETE SPECIFICATION.
2. CONCRETE QUALITY:-

MIN. CEMENT CONTENT = 270kg/m³ MAX. W/C RATIO = 0.5

3. PROJECT CONTROL TESTING TO BE CARRIED OUT IN ACCORDANCE WITH A S.3600.
4. CHAMBER IS DESIGN TO SUPPORT W80 & A160 LOADING IN ACCORDANCE WITH AS5100.
5. NO ADMIXTURES TO BE USED IN CONCRETE UNLESS APPROVED IN WRITING.
6. ALL EXPOSED EDGES AND CORNERS TO BE PROVIDED WITH 25mm FILLETS OR CHAMFERS. MAINTAIN COVER TO REINFORCEMENT AT THESE DETAILS UNLESS OTHERWISE INDICATED.
7. NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS TO BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE SUPERINTENDENT/DESIGNER.
8. CONSTRUCTION JOINTS WHERE NOT SHOWN TO BE LOCATED TO THE APPROVAL OF THE SUPERINTENDENT/DESIGNER. DETAILS OF CONSTRUCTION JOINTS TO BE SUBMITTED TO THE SUPERINTENDENT/DESIGNER FOR APPROVAL.
9. THE FINISHED CONCRETE TO BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS, TO BE COMPACTED WITH MECHANICAL VIBRATORS.
10. CURING OF ALL CONCRETE TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 3 DAYS, AND PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT. APPROVED SPRAYED OR CURING COMPOUNDS MAY BE USED WHERE NO FLOOR FINISH IS PROPOSED. POLYTHENE SHEETING OR WET HESSIAN MAY BE USED IF PROTECTED FROM WIND AND TRAFFIC.
11. CONSTRUCTION SUPPORT PROPPING TO BE LEFT IN PLACE WHERE NEEDED TO AVOID OVERSTRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADING.
12. CONDUITS, PIPES ETC. ONLY TO BE LOCATED AS SHOWN IN THE DRAWINGS OR AS APPROVED BY THE SUPERINTENDENT/DESIGNER.
13. ALL FORMWORK AND PROPPING UNDER SUSPENDED CONCRETE WORKS SHALL BE REMOVED BEFORE ANY MASONRY WORK IS BUILT ABOVE.
14. SHRINKAGE
MAXIMUM DRYING SHRINKAGE STRAIN MEASURED IN ACCORDANCE WITH AS 1012 PART 13 SHALL NOT EXCEED 650×10^{-6} AT 8 WEEKS
15. BACKPROPPING FOR FORMWORK TO BE DESIGNED IN ACCORDANCE WITH AS 1509 AND SUBMITTED FOR ENGINEER'S COMMENTS
THE STRUCTURAL DESIGNER FOR SUSPENDED STRUCTURES ASSUMES:-
 1. A MAXIMUM COMBINED VERTICAL DEFLECTION OF FORMWORK AND PROPS OF 2mm UNDER THE WEIGHT OF CONCRETE, REINFORCEMENT AND CONSTRUCTION LIVE LOAD.
 2. REMOVAL OF FORMWORK AND PROPS SHALL COMPLY WITH CLAUSE 19.6.2 OF AS3600

1. THE DESIGN, CERTIFICATION, CONSTRUCTION AND PERFORMANCE OF THE FORMWORK AND FALSEWORK IS THE RESPONSIBILITY OF THE CONTRACTOR. DESIGN AND CONSTRUCTION OF FORMWORK TO BE IN ACCORDANCE WITH A.S.3610 UNLESS OTHERWISE APPROVED IN WRITING BY THE SUPERINTENDENT.

1. CLEAR CONCRETE COVER TO ALL REINFORCEMENT TO BE AS FOLLOWS, UNLESS SHOWN OTHERWISE.

2. ALL REINFORCEMENT TO BE FIRMLY SUPPORTED NOT GREATER THAN 1m CENTRES BOTHWAYS
UNLESS NOTED OTHERWISE. BARS TO BE TIED AT ALTERNATE INTERSECTIONS.

3. REINFORCEMENT SYMBOLS:

N	- DENOTES GRADE 500 DEFORMED BARS TO A.S.4671
Y	- DENOTES GRADE 400 Y BARS TO A.S.1302 GRADE Y (TEMPCORE).
R	- DENOTES GRADE 250 R HOT ROLLED PLAIN BARS TO A.S.1302.
SL, RL	- DENOTES FABRIC TO AS 4671 (GRADE 500)
F	- DENOTES GRADE 450 F HARD-DRAWN WIRE REINFORCING FABRIC TO A.S.1304.
W	- DENOTES GRADE 450 W HARD-DRAWN PLAIN WIRE TO A.S.1303.

17N20-250

17	- (NUMBER OF BARS IN GROUP)
N	- (BAR GRADE AND TYPE)
20	- (NOMINAL BAR SIZE IN mm)
250	- (SPACING IN mm)

- THE FIGURE FOLLOWING THE FABRIC SYMBOL F IS THE REFERENCE NUMBER FOR FABRIC TO A.S.1304.
4. REINFORCEMENT BARS TO BE LAID IN LAYERS TAGGED ON PLANS AS FOLLOWS:-
- (1) - DENOTES BARS LAID IN BOTTOM LAYER FIRST.
 - (2) - DENOTES BARS LAID IN BOTTOM LAYER SECOND.
 - (3) - DENOTES BARS LAID IN TOP LAYER FIRST.
 - (4) - DENOTES BARS LAID IN TOP LAYER LAST.
5. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
6. SPLICES AND BENDS TO BE MADE ONLY IN POSITION SHOWN, OR OTHERWISE APPROVED IN WRITING BY THE SUPERINTENDENT/DESIGNER. HOOKS, LAPS, SPLICES AND BENDS TO BE IN ACCORDANCE WITH AS 3600.
- LAPS TO BE NOT LESS THAN THE DEVELOPMENT LENGTH FOR EACH BAR SHOWN BELOW U.N.O.

BAR SIZE (mm)	SPLICE LENGTH (mm)
N12	475
N16	625
N20	800
N24	950
N28	1250
N32	1575

7. WELDING OF REINFORCEMENT NOT TO BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE SUPERINTENDENT/DESIGNER.
8. JOGGLES TO BARS TO BE 1 BAR DIAMETER OVER A LENGTH OF 12 BAR DIAMETERS UNLESS OTHERWISE NOTED.
9. FABRIC TO BE LAPPED 2 TRANSVERSE WIRES PLUS 50mm. BUNDLED BARS TO BE TIED TOGETHER AT 30 BAR DIAMETER CENTRES WITH 3 WRAPS OF THE WIRE.
10. AT PENETRATIONS IN SLABS, UNLESS OTHERWISE DETAILED REINFORCEMENT, NOT TO BE CUT BUT TO BE GATHERED EQUALLY TO EACH SIDE OF PENETRATION AND EXTRA REINFORCEMENT PROVIDED BETWEEN THE PENETRATIONS, AS DIRECTED BY THE SUPERINTENDENT/DESIGNER.
11. DISTRIBUTION BARS TO MAIN REINFORCEMENT IN SLABS SHALL BE N12 @ 300cs. U.N.O.

CONSTRUCTION

0 0.25 0.5 0.75 1.0 1.25m

SCALE 1:25 AT ORIGINAL SIZE



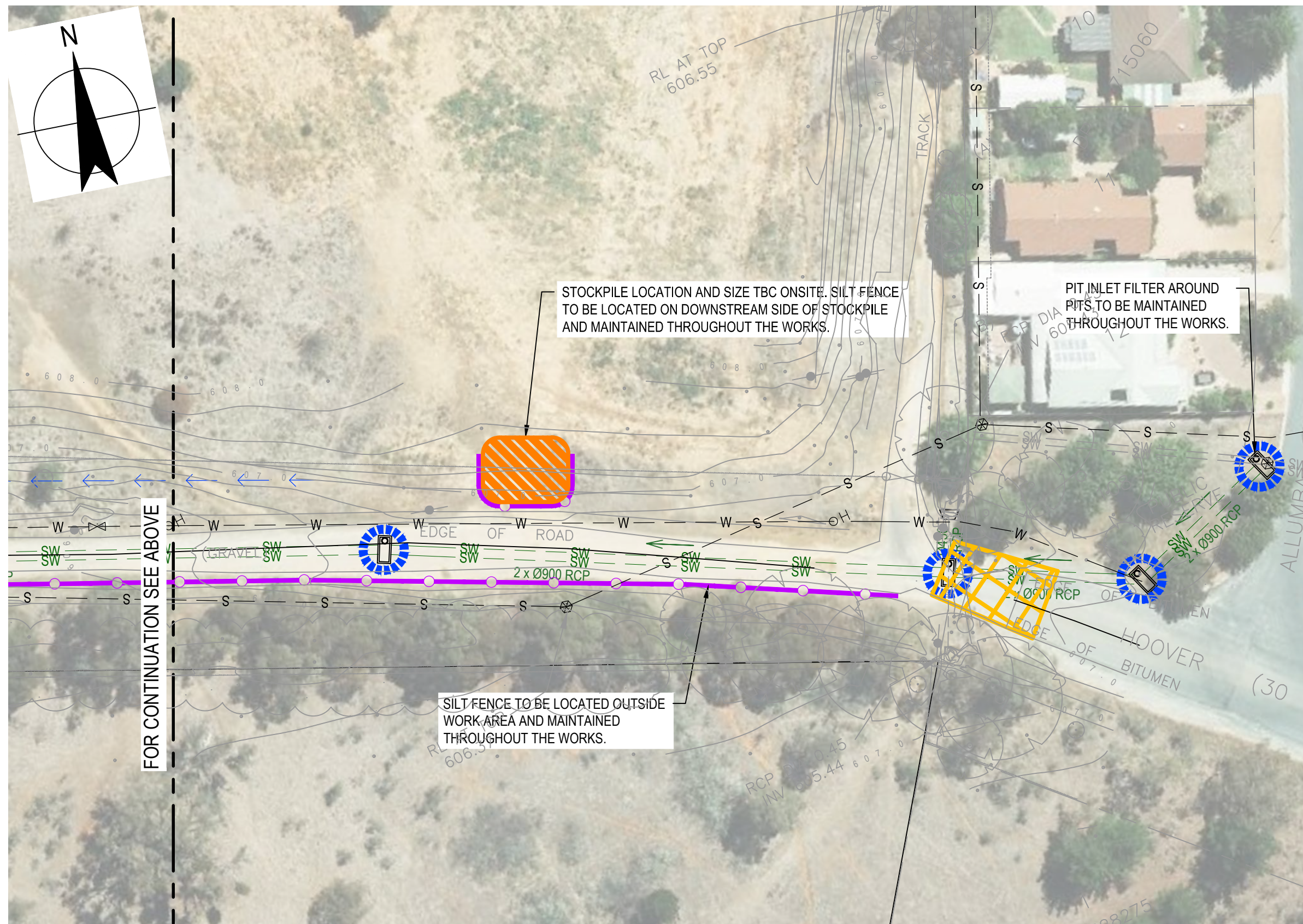
Level 7, 16 Marcus Clarke Street
Canberra ACT 2601 Australia
GPO Box 1877 Canberra ACT 2601
T 61 2 6113 3200 **F** 61 2 6113 3299
E cbrmail@ghd.com **W** www.ghd.com

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	Approved (Project Director)		P. CHIER	
	Date	13.05.2020		
	Scale	1:25	This Drawing must not be used for Construction unless signed as Approved	

Client	QUEANBEYAN - PALERANG REGIONAL COUNCIL		
Project	HOOVER ROAD STORMWATER REALIGNMENT		
Title	STORMWATER SURCHARGE STRUCTURE CIVIL PLAN AND STRUCTURAL DETAILS		
Original Size			
A1	Drawing No:	12511476-C031	Rev: 0



PLAN
SCALE 1:500



PLAN
SCALE 1:500

LEGEND

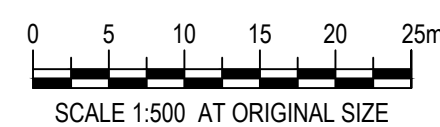
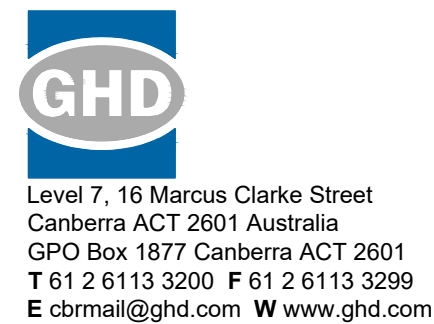
- SILT FENCE
- PIT INLET FILTER
- STOCKPILE
- STABILISED SITE ENTRY ACCESS AND SHAKER PAD
- CATCH DRAIN
- PROPOSED STORMWATER PIPE
- STRAWBALE FILTER

NOTE:

- REFER TO DRAWING No.12511476-C070 FOR SEDIMENT AND EROSION CONTROL DETAILS

CONSTRUCTION

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
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Drafting Check	R. CASAclang	Design Check	J. WEARNE
Approved (Project Director)	P. CHIER		
Date	13.05.2020		
Scale	1:500		

Client	QUEANBEYAN - PALERANG REGIONAL COUNCIL
Project	HOOVER ROAD STORMWATER REALIGNMENT
Title	SEDIMENT AND EROSION CONTROL PLAN
Original Size	A1
Drawing No:	12511476-C060
Rev:	0

GENERAL INSTRUCTIONS:

- G1 ALL SEDIMENT AND EROSION CONTROL MEASURES TO BE IN ACCORDANCE WITH NSW MEASURES DEPARTMENT OF HOUSING "MANAGING URBAN STORMWATER: SOILS, AND CONSTRUCTION" (ALSO REFERRED TO AS THE "BLUE BOOK").
- G2 THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS, AND ANY OTHER PLANS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED BY THE SITE SUPERINTENDENT RELATING TO DEVELOPMENT OF THE SUBJECT SITE.
- G3 THE SITE SUPERINTENDENT WILL ENSURE THAT ALL SEDIMENT AND EROSION CONTROL WORKS ARE LOCATED AS INSTRUCTED IN THIS SPECIFICATION OR IN ANY SUBSEQUENT SITE INSTRUCTION.
- G4 ALL BUILDERS AND SUB-CONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES BY THE SITE SUPERINTENDENT IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS.

SEDIMENT CONTROL:

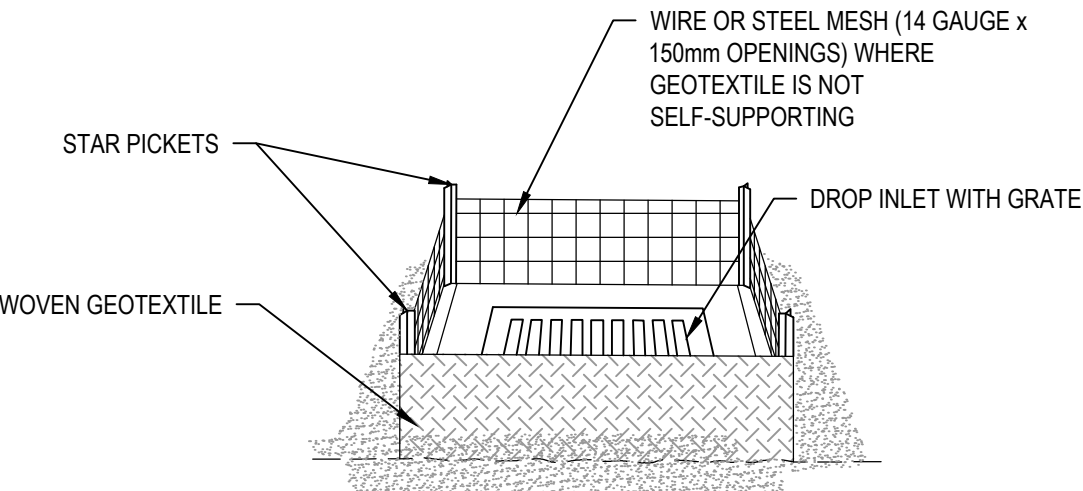
- S1 AN EROSION AND SEDIMENT CONTROL PLAN (ESCP) FOR ALL SITE WORKS, INCLUDING ROAD WORKS AND ACCESS, IS TO BE APPROVED BY THE PRINCIPAL CERTIFYING AUTHORITY PRIOR TO WORK COMMENCING. THE PLAN IS TO COVER ALL MEASURES TO CONTROL EROSION AND SEDIMENT TRANSPORT IN ACCORDANCE WITH THE NSW LANDCOM PUBLICATION MANAGING URBAN STORMWATER-SOILS AND CONSTRUCTION (4TH EDITION 2004-"BLUE BOOK"). THE ESCP SHALL INCLUDE MAINTENANCE REQUIREMENTS AND INSPECTION SCHEDULES FOR ALL CONTROL MEASURES.
- S2 EROSION AND SEDIMENT CONTROLS ARE TO BE IN PLACE BEFORE THE DISTURBANCE OF ANY SOILS ON THE SITE, AND ARE TO BE MAINTAINED DURING THE WORKS AND FOR AS LONG AS NECESSARY AFTER THE COMPLETION TO PREVENT SEDIMENT AND DIRTY WATER LEAVING THE SITE AND/OR ENTERING THE SURFACE WATER SYSTEM OUTSIDE THE SITE.
- S3 THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS, AND ANY OTHER PLANS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED BY THE SITE SUPERINTENDENT RELATING TO DEVELOPMENT OF THE SUBJECT SITE.
- S4 THE SITE SUPERINTENDENT WILL ENSURE THAT ALL SEDIMENT AND EROSION CONTROL WORKS ARE LOCATED AS INSTRUCTED IN THIS SPECIFICATION OR IN ANY SUBSEQUENT SITE INSTRUCTION.
- S5 ALL BUILDERS AND SUB-CONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES BY THE SITE SUPERINTENDENT IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS.
- S6 SEDIMENT FROM THE DEVELOPMENT SITE IS TO BE RETAINED ON-SITE DURING CONSTRUCTION WORK.
- S7 PROVIDE MITIGATION MEASURES TO ENSURE STORMWATER RUN-OFF DOES NOT ENTER ADJOINING PROPERTIES OR INTO THE SEWERAGE SYSTEM.
- S8 PROVIDE SEDIMENT FILTERS SUCH AS STRAW BALES FILTERS, GRAVEL SURFACE BARRIERS, SANDBAGS, PIT BASKETS OR GEO-TEXTILE MESH SCREENS AT RUN-OFF POINTS.
- S9 STRAW BALES/GEO-TEXTILE MESH SCREENS MUST BE INSPECTED ON A REGULAR BASIS AND REPLACED IF NECESSARY SO THEY REMAIN EFFECTIVE.
- S10 SEDIMENT TRAPS OR FILTERS MUST BE PLACED AROUND ANY DRAIN AFFECTED BY CONSTRUCTION WORKS TO PREVENT SEDIMENT ENTERING THE STORMWATER SYSTEM. SEDIMENT CONTROLS SHOULD BE CHECKED DAILY TO ENSURE THEY REMAIN EFFECTIVE.
- S11 ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) IS TO BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
- S12 WATER IS TO BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
- S13 TEMPORARY SEDIMENT AND EROSION CONTROL STRUCTURES ARE TO BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED AND WHEN REMOVAL IS APPROVED BY THE SITE SUPERINTENDENT.
- S14 REHABILITATION GRASS MIX IS TO BE APPLIED TO ALL DISTURBED SURFACES AT THE RECOMMENDED RATE OF DISPERSAL PRIOR TO THE ISSUE OF THE FINAL OCCUPATION/ COMPLETION CERTIFICATE. DO NOT USE SPECIES THAT ARE LISTED UNDER THE NOXIOUS WEEDS ACT 1993.

LAND DISTURBANCE:

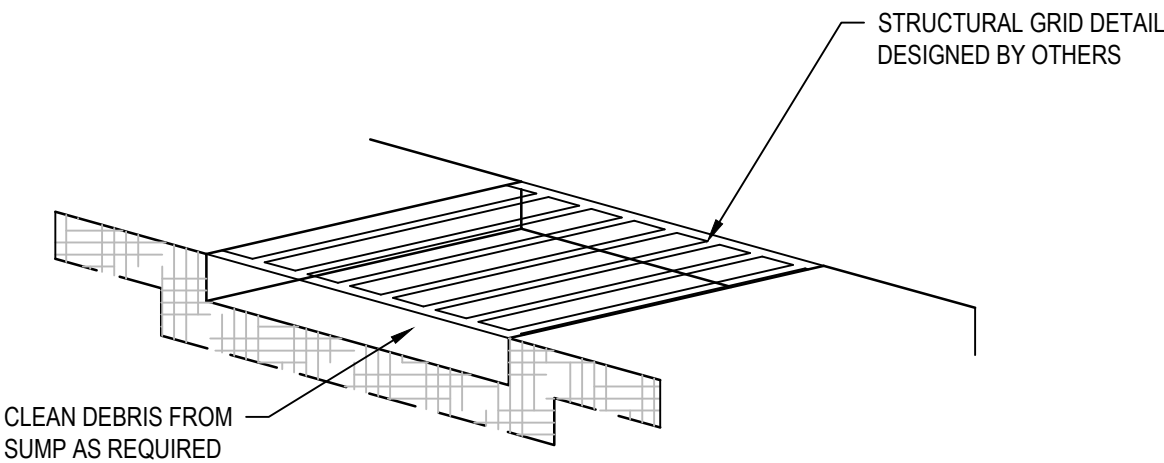
- L1 THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE AND PRACTICAL. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING GENERAL SEQUENCE:
- A CONSTRUCTION OF SEDIMENT AND EROSION CONTROLS.
- B REHABILITATION OF ANY DISTURBED LANDS WITHIN 20 WORKING DAYS.
- C UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

ADDITIONAL MATTERS:

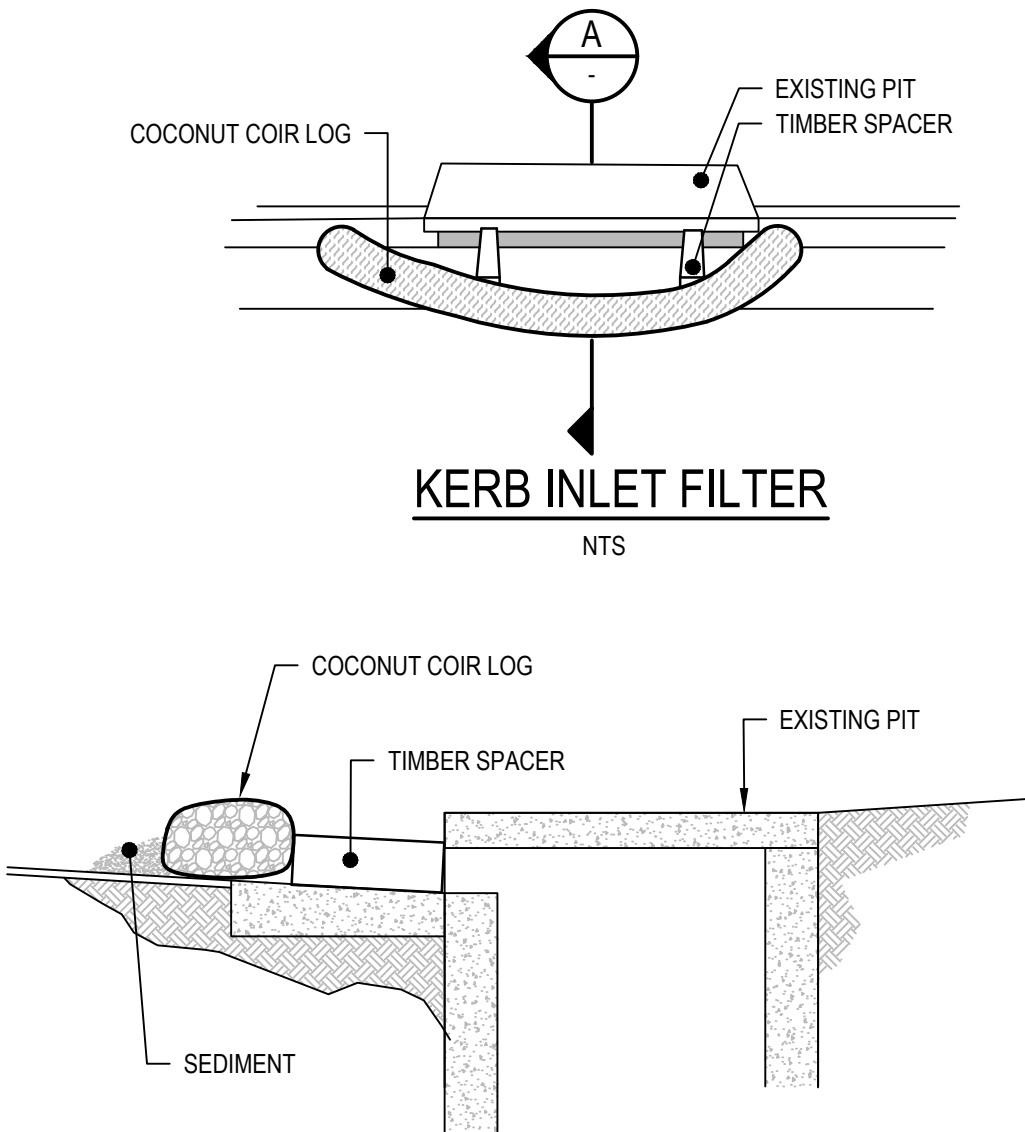
- A1 ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
- A2 ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN ARE TO BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
- A PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE.
- B ENSURING THAT NOTHING IS NAILED TO THEM.
- C PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.
- I ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5 M OR HALF DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICHEVER IS THE GREATER.
- II A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (EG. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MM DEPTH.
- III CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.



GEOTEXTILE INLET FILTER - PERSPECTIVE
NOT TO SCALE

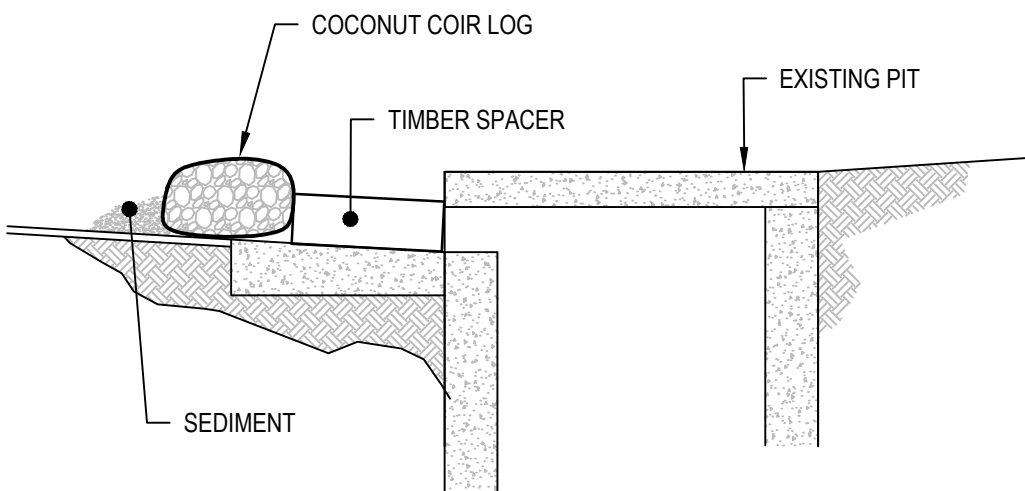


SHAKER PAD DETAIL
NTS

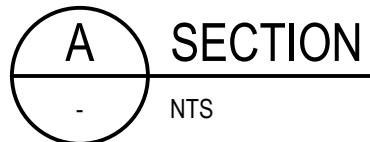


KERB INLET FILTER

NTS

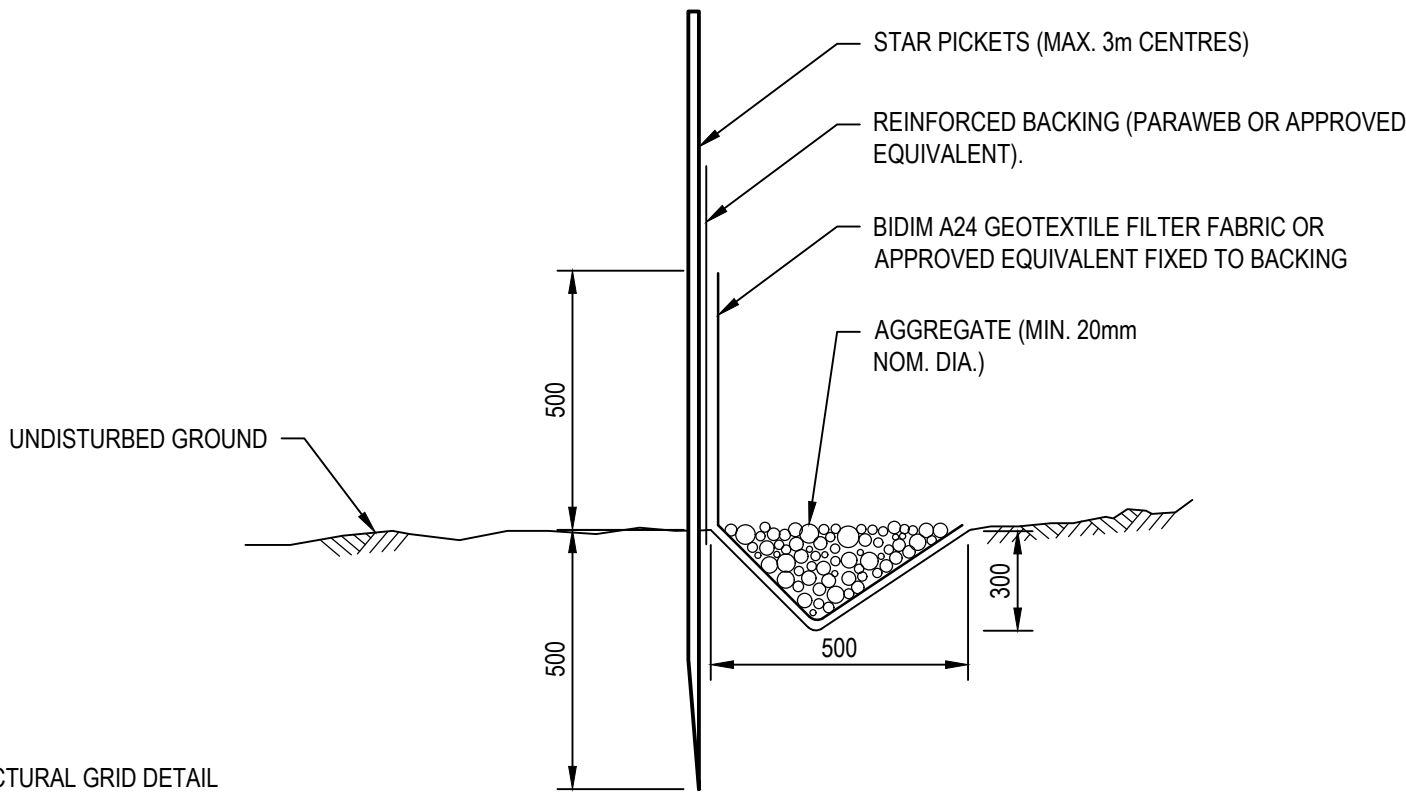


KERB INLET FILTER



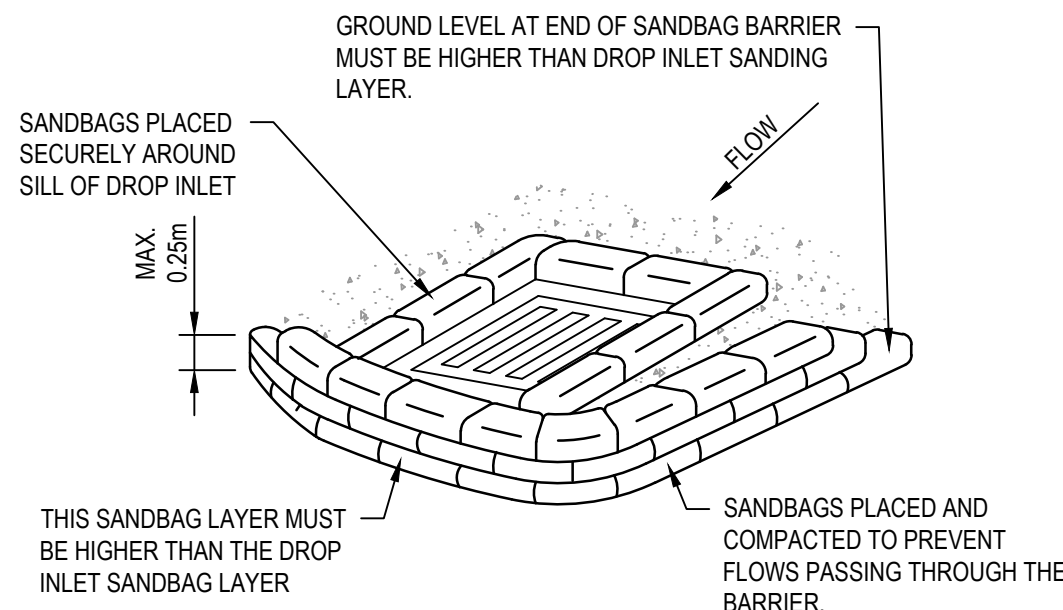
SECTION

NTS



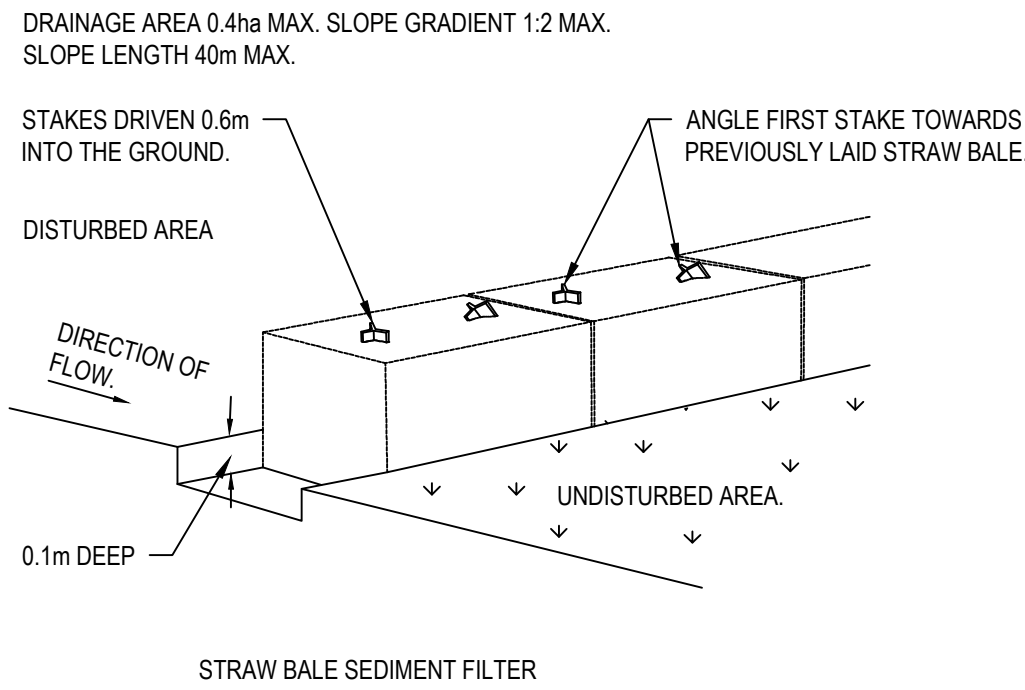
SILT FENCE

NTS

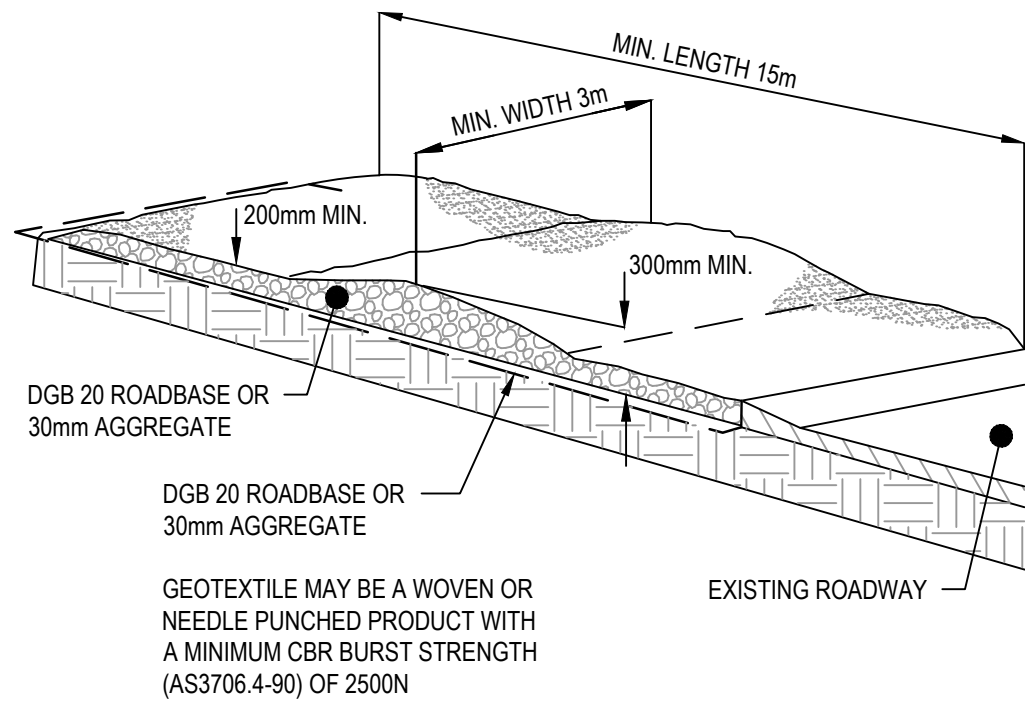


SEDIMENT BARRIER DETAIL

NOT TO SCALE

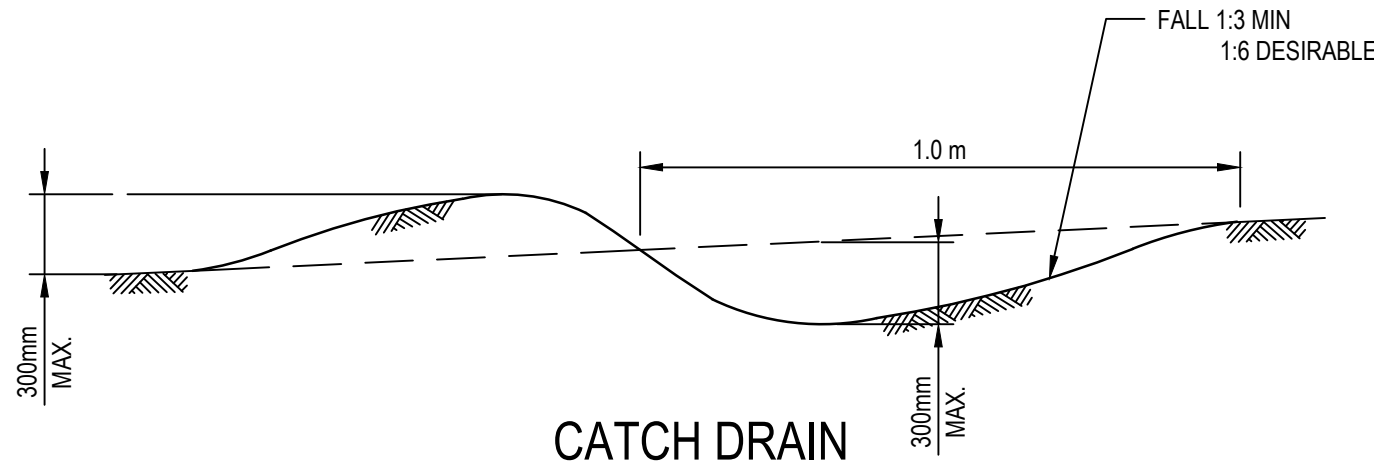


NTS



STABILISED SITE ACCESS

NTS



CATCH DRAIN

NTS

CONSTRUCTION

0	ISSUED FOR CONSTRUCTION		AA	AR	PC	13.05.20
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

Plot Date: 13 May 2020 - 10:24 AM

Plotted by: Tim Beckmans

Cad File No: C:\12d\ISWdata\P-00-12D-00123-12511476 - HOOVER ROAD SW REALIGNMENT_792\CADD\Drawings\12511476-C070.dwg



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Drawn R. KALOS

Designer M. DOWNES

Drafting Check R. CASAclang

Design Check J. WEARNE

Approved (Project Director) P. CHIER

Date 13.05.2020

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This Drawing must not be used for Construction unless signed as Approved

Client	QUEANBEYAN - PALERANG REGIONAL COUNCIL
Project	HOOVER ROAD STORMWATER REALIGNMENT
Title	SEDIMENT AND EROSION CONTROL DETAILS
Original Size	A1
Drawing No:	12511476-C070
Rev:	0