



# CIVIL & STORMWATER WORKS for 183 AMAROO DRIVE SMITHS LAKE NSW 2428

Prepared by  
**WALLACE INFRASTRUCTURE DESIGN PTY LTD**



LOCATION PLAN  
(NTS)

| DRAWING NUMBER | DRAWING DESCRIPTION                         |
|----------------|---|
| C01.01         | LEGEND, DRAWING SCHEDULE AND LOCATION PLAN  |
| C02.01         | GENERAL NOTES                               |
| C03.01         | EROSION AND SEDIMENTATION CONTROL PLAN      |
| C03.02         | EROSION AND SEDIMENTATION CONTROL DETAILS   |
| C04.01         | CIVIL AND STORMWATER MANAGEMENT PLAN        |
| C04.02         | DRIVEWAY No. 1 & No. 2 LONGITUDINAL SECTION |
| C04.03         | DRIVEWAY No. 1 CROSS-SECTIONS               |
| C04.04         | DRIVEWAY No. 2 CROSS-SECTIONS               |
| C04.05         | DRIVEWAY No. 2 CROSS-SECTIONS               |
| C04.06         | DRIVEWAY No. 2 CROSS-SECTIONS               |
| C05.01         | DRIVEWAY TYPICAL SECTIONS                   |
| C05.02         | STORMWATER DETAILS                          |

## DESIGN CERTIFICATION

THESE PLANS WERE PREPARED UNDER THE DIRECT SUPERVISION OF A QUALIFIED PRACTISING CIVIL ENGINEER WHO IS REGISTERED WITH THE NATIONAL PROFESSIONAL ENGINEERS REGISTER AND THE INSTITUTE OF ENGINEERS AUSTRALIA (EA ID 4404352).

COMPANY: WALLACE INFRASTRUCTURE DESIGN P/L

NAME: KEN BOYER, MIEAust CPeng (SENIOR CIVIL ENGINEER)

SIGNED:  DATE: 26.07.2023

## ABBREVIATIONS

|      |                            |      |                               |     |                        |
|------|----------------------------|------|-------------------------------|-----|------------------------|
| A/G  | ABOVE GROUND               | GA   | GENERAL ARRANGEMENT           | REV | REVISION               |
| AGG  | AGGREGATE                  | GI   | GALVANISED IRON               | RL  | REDUCED LEVEL          |
| ARCH | ARCHITECT                  | IC   | INSPECTION CHAMBER            | RSJ | ROLLED STEEL JOIST     |
| ASP  | ASPHALT                    | ID   | INSIDE DIAMETER               | RW  | RETAINING WALL         |
| BM   | BENCHMARK                  | IFC  | ISSUED FOR CONSTRUCTION       | SFW | SEALED FLOOR WASTE     |
| CAD  | COMPUTER AIDED DRAFTING    | IFCR | ISSUED FOR CLIENT REVIEW      | SHR | SHOWER                 |
| C/C  | CENTRE TO CENTRE           | IL   | INVERT LEVEL                  | SK  | KITCHEN SINK           |
| CH   | CHAINAGE                   | IO   | INSPECTION OPENING            | SL  | SURFACE LEVEL          |
| CI   | CAST IRON                  | KIP  | KERB INLET PIT                | SMH | SEWER MAN HOLE         |
| CJ   | CONSTRUCTION JOINT         | LP   | LAMP POST (SURVEY)            | SMV | SEWER MAIN VENT        |
| CL   | COVER LEVEL or CENTRE LINE | (m)  | METRE                         | SOD | SIDE OUTLET DRAIN      |
| CO   | CLEAN OUT (SUBSOIL)        | MAX  | MAXIMUM                       | SP  | SPRINKLER              |
| COG  | CHANGE OF GRADE            | MC   | MASS CONCRETE                 | S/S | STAINLESS STEEL        |
| CONC | CONCRETE                   | MH   | MANHOLE                       | STD | STANDARD               |
| CTRL | CONTROL                    | MIN  | MINIMUM                       | SV  | STOP VALVE             |
| CR   | CROWN                      | MISC | MISCELLANEOUS                 | SWD | STORMWATER DRAINAGE    |
| CTS  | CENTRES                    | N    | NORTH                         | SWP | STORMWATER PIT         |
| DIA  | DIAMETER                   | NRV  | NON RETURN VALVE              | THK | THICKNESS              |
| DP   | DOWNPIPE                   | NTS  | NOT TO SCALE                  | TOW | TOP OF WALL            |
| DRG  | DRAWING                    | OD   | OUTER DIAMETER                | TW  | TRADE WASTE            |
| D/S  | DOWN STREAM                | OF   | OVERFLOW                      | TYP | TYPICAL                |
| DTM  | DIGITAL TERRAIN MODEL      | OH   | OVERHEAD                      | U/G | UNDERGROUND            |
| EB   | EDGE BEAM                  | PP   | POWER POLE                    | UNO | UNLESS NOTED OTHERWISE |
| EX   | EXISTING                   | PPE  | PERSONAL PROTECTIVE EQUIPMENT | U/S | UPSTREAM               |
| ESL  | EXISTING SURFACE LEVEL     | PVC  | POLYVINYLCHLORIDE             | VC  | VITRIFIED CLAY PIPE    |
| FH   | FIRE HYDRANT               | PV   | PRESSURE VENT                 | VP  | VENT PIPE              |
| FHR  | FIRE HOSE REEL             | PVP  | PRESSURE VENT PIPE            | VR  | VERTICAL RISER         |
| FFL  | FINISHED FLOOR LEVEL       | QA   | QUALITY ANALYSIS              | WC  | WATER CLOSET           |
| FGL  | FINISHED GROUND LEVEL      | QTY  | QUANTITY                      | WL  | WATER LEVEL            |
| FSL  | FINISHED SURFACE LEVEL     | RAD  | RADIUS                        | WM  | WATER MARK             |
| FW   | FLOOR WASTE                | RC   | REINFORCED CONCRETE           | WS  | WASTE STACK            |

## LINETYPES

### GENERAL

|     |                             |
|-----|-----------------------------|
| --- | SITE BOUNDARY               |
| --- | CADASTRAL BOUNDARY          |
| --- | EASEMENT BOUNDARY           |
| --- | EXISTING - SURVEY FEATURES  |
| --- | CONTOURS                    |
| --- | STORMWATER PIPE             |
| --- | STORMWATER PIT              |
| --- | TREES / SHRUBS              |
| --- | ELECTRICAL CABLE - U/G      |
| --- | ELECTRICAL CABLE - O/H      |
| --- | EXISTING SEWER PIPE         |
| --- | EXISTING WATER              |
| --- | EXISTING WATER (HYDRANT)    |
| --- | EXISTING WATER (STOP VALVE) |
| --- | EXISTING TELECOM            |
| --- | EXISTING GAS                |
| --- | BUILDING FOOTPRINT          |

### PROPOSED - UTILITIES (cont.)

|     |                              |
|-----|------------------------------|
| --- | SEWER PIPE                   |
| --- | WATER                        |
| --- | COMMUNICATIONS               |
| --- | COMMUNICATIONS - OPTIC FIBRE |
| --- | COMMUNICATIONS PIT           |
| --- | GAS                          |
| --- | REDUNDANT                    |
| --- | ELECTRICAL CABLE - U/G       |
| --- | ELECTRICAL CABLE - O/H       |

### PROPOSED - EROSION AND SEDIMENT CONTROL

|     |                              |
|-----|------------------------------|
| --- | SITE EXCLUSION FENCE         |
| --- | STABILISED SITE ACCESS       |
| --- | SEDIMENT FENCE               |
| --- | MATERIAL STOCKPILE           |
| --- | DIVERSION DRAIN              |
| --- | SLOPE DIRECTION              |
| --- | MESH AND GRAVEL INLET FILTER |

### PROPOSED - ARCHITECTURE (INDICATIVE ONLY)

|     |                      |
|-----|----------------------|
| --- | DWELLING NUMBER      |
| --- | FINISHED FLOOR LEVEL |
| --- | BUILDING FOOTPRINT   |

### PROPOSED - STORMWATER DRAINAGE (SWD)

|     |   |
|-----|---|
| --- | SWD PIPE (INCL. DIA/GRADE/LENGTH)           |
| --- | SWD PIPE - CHARGED (INCL. DIA/GRADE/LENGTH) |
| --- | SWD PIT - GRATED                            |
| --- | SWD - KERB INLET PIT (INCLUDING LINTEL)     |
| --- | SWD PIT - JUNCTION                          |
| --- | SWD LABEL (TYPE / COVER LEVEL)              |
| --- | RAINWATER/REUSE TANK                        |
| --- | GROSS POLLUTANT TRAP                        |
| --- | GRATED DRAIN                                |
| --- | INFILTRATION TRENCH                         |
| --- | HEADWALL                                    |
| --- | SUBSOIL                                     |
| --- | STORMWATER SWALE                            |
| --- | PIPE RISER                                  |
| --- | PIPE DROPPER                                |
| --- | OVERLAND FLOW PATH                          |
| --- | FINISHED GRADE LEVELS                       |
| --- | EXISTING GRADE LEVELS                       |

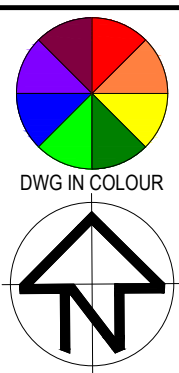
## SYMBOLS

### PROPOSED - CIVIL

|     |                              |
|-----|------------------------------|
| --- | CONCRETE                     |
| --- | ASPHALTIC CONCRETE           |
| --- | SAND                         |
| --- | EARTH                        |
| --- | RIP RAP                      |
| --- | BUILDING / STRUCTURES        |
| --- | TIMBER                       |
| --- | BLOCK PAVERS                 |
| --- | RETAINING WALL               |
| --- | KERB RAMP                    |
| --- | VEHICULAR CROSSING           |
| --- | FENCE                        |
| --- | BATTER                       |
| --- | BOLLARD - TYPE 1 (FIXED)     |
| --- | BOLLARD - TYPE 2 (REMOVABLE) |
| --- | LINEMARKING - CHEVRON        |
| --- | EXPANSION JOINT              |
| --- | CONTRACTION JOINT            |
| --- | CONSTRUCTION JOINT           |
| --- | LONGITUDINAL JOINT           |

AutoCAD Civil 3D 2021

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|   |                  |          |       |       |  |
|---|------------------|----------|-------|-------|--|
| THIS DRAWING IS NOT APPROVED FOR CONSTRUCTION UNLESS ENDORSED |                  |          |       |       |  |
| 2   | FOR CONSTRUCTION | 26.07.23 | K.B.  | K.B.  |  |
| 1   | FOR CONSTRUCTION | 21.07.23 | K.B.  | K.B.  |  |
| REV   | DESCRIPTION      | DATE     | APPVD | ENDOD |  |

|         |                                   |
|---------|-----------------------------------|
| CLIENT: | MIDCOAST PLANNING PTY LTD         |
|         | TONY FISH                         |
|         | tfish@midcoasttownplanning.com.au |
|         | 0499 612 844                      |

|         |                      |
|---------|----------------------|
| CLIENT: | HAYDEN HALSTED       |
|         | 183 AMAROO DRIVE     |
|         | SMITHS LAKE NSW 2428 |



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|          |                      |
|----------|----------------------|
| PROJECT: | CIVIL WORKS for      |
|          | LOT 37, DP 237259    |
|          | 183 AMAROO DRIVE     |
|          | SMITHS LAKE NSW 2428 |

|                |  |
|----------------|--|
| DRAWING TITLE: | <b>CIVIL SERVICES</b>                      |
|                | LEGEND, DRAWING SCHEDULE AND LOCATION PLAN |

|  |          |                    |          |               |          |
|--|----------|--------------------|----------|---------------|----------|
| DRAWING STATUS <b>FOR CONSTRUCTION</b> |          |                    |          |               |          |
| SCALE: N.T.S.                          |          |                    |          | ORIG. SIZE A1 |          |
| DRAWN                                  | DESIGNED | CHECKED            | APPROVED | ENDORSED      | DATE     |
| M.S.                                   | K.B.     | K.B.               | K.B.     | K.B.          | 26.07.23 |
| PROJECT No. 23097                      |          | DRAWING No. C01.01 |          |               | REV 2    |



GENERAL NOTES

1. ALL CONSTRUCTION WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S ENGINEERING REQUIREMENTS FOR DEVELOPMENTS.
2. ALL DIMENSIONS, EASEMENTS AND LOTS SUBJECT TO REGISTRATION OF DEPOSITED PLAN.
3. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND CONSULTANT'S DRAWINGS AND SPECIFICATIONS, AND OTHER WRITTEN REPORTS (e.g GEOTECHNICAL, ARBORIST, ENVIRONMENTAL, ETC.). ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH ANY WORKS.
4. ALL LEVELS SHALL BE OBTAINED FROM ESTABLISHED BENCH MARKS AS DIRECTED BY THE SUPERVISOR.
5. THE DEVELOPER, SHALL ENSURE ALL ASSOCIATED DOCUMENTATION (GEOTECHNICAL, LANDSCAPE, ARCHITECTURAL, ELECTRICAL, TELECOM, GAS ETC.) HAS BEEN APPROVED FOR CONSTRUCTION BEFORE COMMENCING ANY WORKS.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION, PROTECTION AND ADJUSTMENT TO ALL IN GROUND AND ABOVE GROUND SERVICES. SEE HUNTER WATER'S NOTICE OF REQUIREMENTS.
7. EROSION CONTROL MEASURES, DEVICES, SILT TRAPS. ETC. ARE TO BE INSTALLED BEFORE ANY SITE DISTURBANCE IN ACCORDANCE WITH COUNCIL INSPECTORS REQUIREMENTS AND SITE SEDIMENTATION AND EROSION CONTROL PLANS.
8. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ALL WORKS ARE CARRIED OUT IN ACCORDANCE WITH THE WORK HEALTH SAFETY ACT.
9. VEHICULAR ACCESS AND ALL SERVICES ARE TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION WORKS.
10. ALL WASTE OR DEMOLISHED MATERIALS SHALL BE DISPOSED OF OFF SITE TO A COUNCIL APPROVED SITE. ALL FEES AND CHARGES SHALL BE INCLUDED IN THE CONTRACT SUM.
11. CONSTRUCTION VIBRATION TO COMPLY WITH AS2760.1-2004 AND/OR NSW DEPT OF ENVIRONMENT AND CONSERVATION NOISE REQUIREMENTS
12. EMISSIONS FROM SITE ARE NOT TO INTERFERE WITH THE AMENITY OF THE NEIGHBORHOOD.
13. NOISE EMISSIONS ARE TO COMPLY WITH NSW EPA NOISE CONTROL MANUAL. TIME RESTRICTIONS APPLY TO CONSTRUCTION WORKS AS FOLLOWS: 7AM TO 6PM MON-FRI; 8AM TO 1PM SAT.
14. TREES & SHRUBS WHICH ARE FELLED SHALL BE SALVAGED FOR RE-USE, EITHER IN LOG FORM, OR AS A WOODCHIP MULCH FOR EROSION CONTROL AND/OR SITE REHABILITATION. NON-SALVAGEABLE MATERIAL SUCH AS ROOTS & STUMPS SHALL BE DISPOSED OF IN AN APPROVED MANNER.
15. 'ESCP' REFERS TO EROSION AND SEDIMENT CONTROL PLAN, 'SWMP' REFERS TO SOIL AND WATER MANAGEMENT PLAN, AND, 'ESC' REFERS TO EROSION AND SEDIMENT CONTROL.
16. SEDIMENT, INCLUDES, BUT IS NOT LIMITED TO, CLAY, SILT, SAND, GRAVEL, SOIL, MUD, CEMENT AND CERAMIC WASTE.
17. ANY REFERENCE TO THE BLUE BOOK REFERS TO "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION", LANDCOM, 2004.
18. ANY REFERENCE TO THE IECA WHITE BOOKS (2008) REFERS TO IECA 2008, "BEST PRACTICE EROSION AND SEDIMENT CONTROL". BOOKS 1-6. INTERNATIONAL EROSION CONTROL ASSOCIATION (AUSTRALASIA), PICTON, NSW.
19. ANY MATERIAL DEPOSITED IN ANY CONSERVATION AREA FROM WORKS ASSOCIATED WITH THE DEVELOPMENT SHALL BE REMOVED IMMEDIATELY BY MEASURES INVOLVING MINIMAL GROUND AND/OR VEGETATION DISTURBANCES AND NO MACHINERY, OR FOLLOWING DIRECTIONS BY COUNCIL AND/OR WITHIN A TIMEFRAME ADVISED BY COUNCIL.

SURVEY NOTES

1. THE EXISTING SURVEY CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN DERIVED FROM SURVEY INFORMATION SUPPLIED BY CALCO SURVEYORS PTY LTD CONSULTING ENGINEERS, DATED 8TH JUNE 2023, JOB NO. 4332.
2. THE FOLLOWING SURVEY INFORMATION HAS BEEN TAKEN DIRECTLY FROM THE ORIGINAL SURVEY DOCUMENTS:

POSITION DATUM:

SS 87698

ORIENTATION:

MGA 56

EASTING:

452 766 431

NORTHING:

6 417 596.521

HEIGHT DATUM:

RL: 7.787 (AHD)
3. THE INFORMATION SHOWN IS PROVIDED AS A BASIS FOR THE DESIGN. WALLACE DESIGN GROUP DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.
4. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTRACTOR SHALL CONTACT CALCO SURVEYORS PTY LTD.
5. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.

THE ESCP

1. THE ESCP AND ITS ASSOCIATED ESC MEASURES SHALL BE CONSTANTLY MONITORED, REVIEWED AND MODIFIED AS REQUIRED TO CORRECT DEFICIENCIES. COUNCIL HAS THE RIGHT TO DIRECT CHANGES IF, IN ITS OPINION, THE MEASURES THAT ARE PROPOSED OR HAVE BEEN INSTALLED ARE INADEQUATE TO PREVENT POLLUTION.
2. PRIOR TO ANY ACTIVITIES ONSITE, THE RESPONSIBLE PERSON(S) IS TO BE NOMINATED. THE RESPONSIBLE PERSON(S) SHALL BE RESPONSIBLE FOR THE ESC MEASURES ONSITE. THE NAME, ADDRESS AND 24 HOUR CONTACT DETAILS OF THE PERSON(S) SHALL BE PROVIDED TO COUNCIL IN WRITING. COUNCIL SHALL BE ADVISED WITHIN 48 HOURS OF ANY CHANGES TO THE RESPONSIBLE PERSON(S), OR THEIR CONTACT DETAILS, IN WRITING.
3. AT LEAST 14 DAYS BEFORE THE NATURAL SURFACE IS DISTRIBUTED IN ANY NEW STAGE, THE CONTRACTOR SHALL SUBMIT TO THE CERTIFIER A PLAN SHOWING ESC MEASURES FOR THAT STAGE. THE DEGREE OF DESIGN DETAIL SHALL BE BASED ON THE DISTRIBUTED AREA.
4. AT ANY TIME, THE ESC MEASURES ONSITE SHALL BE APPROPRIATE FOR THE AREA OF DISTURBANCE AND ITS CHARACTERISTICS, INCLUDING SOIL TYPE (IN ACCORDANCE WITH THOSE REQUIRED FOR THE SITE AS PER THE DCP).
5. THE IMPLEMENTATION OF THE ESCP SHALL BE SUPERVISED BY PERSONNEL WITH APPROPRIATE QUALIFICATIONS AND/OR EXPERIENCE IN ESC ON CONSTRUCTION SITES.
6. THE APPROVED ESCP SHALL BE AVAILABLE ON-SITE FOR INSPECTION BY COUNCIL OFFICERS WHILE WORK ACTIVITIES ARE OCCURRING.
7. THE APPROVED ESCP SHALL BE UP TO DATE AND SHOW A TIMELINE OF INSTALLATION, MAINTENANCE AND REMOVAL OF ESC MEASURES.
8. ALL ESC MEASURES SHALL BE APPROPRIATE FOR THE SEDIMENT TYPE(S) OF THE SOILS ONSITE, IN ACCORDANCE WITH THE BLUE BOOK, IECA WHITE BOOKS OR OTHER CURRENT RECOGNISED INDUSTRY STANDARDS PERTAINING TO ESC FOR AUSTRALIAN CONDITIONS.
9. ADEQUATE SITE DATA, INCLUDING SOIL DATA FROM A NATA APPROVED LABORATORY, SHALL BE OBTAINED TO ALLOW FOR THE PREPARATION OF AN APPROPRIATE ESCP, AND TO ALLOW FOR THE SELECTION, DESIGN AND SPECIFICATION OF REQUIRED ESC MEASURES.
10. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE APPROVED ESCP (AS AMENDED FROM TIME TO TIME) UNLESS CIRCUMSTANCES ARISE WHERE:

A) COMPLIANCE WITH THE ESCP WOULD INCREASE THE POTENTIAL FOR ENVIRONMENTAL HARM

B) CIRCUMSTANCES CHANGE DURING CONSTRUCTION AND THOSE CIRCUMSTANCES COULD NOT HAVE BEEN FORSEEN; OR

C) COUNCIL DETERMINES THAT UNACCEPTABLE OFF-SITE SEDIMENTATION IS OCCURRING AS A RESULT OF A LAND-DISTURBING ACTIVITY. IN EITHER CASE, THE PERSON(S) RESPONSIBLE MAY BE REQUIRED TO TAKE ADDITIONAL, OR ALTERNATIVE PROTECTIVE ACTION, AND/OR UNDERTAKE REASONABLE RESTORATION WORKS WITHIN THE TIMEFRAME SPECIFIED BY THE COUNCIL.
11. ADDITIONAL ESC MEASURES SHALL BE IMPLEMENTED, AND A REVISED ESCP SUBMITTED FOR APPROVAL TO THE CERTIFIER (WITHIN 5 BUSINESS DAYS OF AN SUCH AMENDMENTS) IN THE EVENT THAT:

A) THERE IS A HIGH PROBABILITY THAT SERIOUS OR MATERIAL ENVIRONMENTAL HARM MAY OCCUR AS A RESULT OF SEDIMENT LEAVING THE SITE; OR

B) THE IMPLEMENTED WORKS FAIL TO ACHIEVE COUNCIL'S WATER QUALITY OBJECTIVES SPECIFIED IN THESE CONDITIONS; OR

C) SITE CONDITIONS SIGNIFICANTLY CHANGE; OR

D) SITE INSPECTIONS INDICATE THAT THE IMPLEMENTED WORKS ARE FAILING TO ACHIEVE THE "OBJECTIVE" OF THE ESCP.
12. A COPY OF ANY AMENDED ESCP SHALL BE FORWARDED TO AN APPROPRIATE COUNCIL OFFICER, WITHIN FIVE BUSINESS DAYS OF ANY SUCH AMENDMENTS.

SITE ESTABLISHMENT INCLUDING CLEARING AND MULCHING

1. NO LAND CLEARING SHALL BE UNDERTAKEN UNLESS PRECEDED BY THE INSTALLATION OF ADEQUATE DRAINAGE AND SEDIMENT CONTROL MEASURES, UNLESS SUCH CLEARING IS REQUIRED FOR THE PURPOSE OF INSTALLING SUCH MEASURES, IN WHICH CASE, ONLY THE MINIMUM CLEARING REQUIRED TO INSTALL SUCH MEASURES SHALL OCCUR.
2. BULK TREE CLEARING AND GRUBBING OF THE SITE SHALL BE IMMEDIATELY FOLLOWED BY SPECIFIED TEMPORARY EROSION CONTROL MEASURES (E.G. TEMPORARY GRASSING OR MULCHING) PRIOR TO THE COMMENCEMENT OF EACH STAGE OF CONSTRUCTION WORKS.
3. TREES AND VEGETATION CLEARED FROM THE SITE SHALL BE MULCHED ONSITE WITHIN 7 DAYS OF CLEARING.
4. APPROPRIATE MEASURES SHALL BE UNDERTAKEN TO CONTROL ANY DUST ORIGINATING DUE TO THE MULCHING OF VEGETATION ONSITE.
5. ALL OFFICE FACILITIES AND OPERATIONAL ACTIVITIES SHALL BE LOCATED SUCH THAT ANY EFFLUENT, INCLUDING WASH-DOWN WATER, CAN BE TOTALLY CONTAINED AND TREATED WITHIN THE SITE.
6. ALL REASONABLE AND PRACTICABLE MEASURES SHALL BE TAKEN TO ENSURE STORMWATER RUNOFF FROM ACCESS ROADS AND STABILISED ENTRY/EXIT SYSTEMS DRAINS TO AN APPROPRIATE SEDIMENT CONTROL DEVICE.
7. SITE EXIT POINTS SHALL BE APPROPRIATELY MANAGED TO MINIMISE THE RISK OF SEDIMENT BEING TRACKED ONTO SEALED, PUBLIC ROADWAYS.
8. STORMWATER RUNOFF FROM ACCESS ROADS AND STABILIZED ENTRY/EXIT POINTS SHALL DRAIN TO AN APPROPRIATE SEDIMENT CONTROL DEVICE.
9. THE APPLICANT SHALL ENSURE AN ADEQUATE SUPPLY OF ESC, AND APPROPRIATE POLLUTION CLEAN-UP MATERIALS ARE AVAILABLE ON-SITE AT ALL TIMES.
10. ALL TEMPORARY EARTH BANKS, FLOW DIVERSION SYSTEMS, AND SEDIMENT BASIN EMBANKMENTS SHALL BE MACHINE-COMPACTED, SEEDED AND MULCHED WITHIN 10 DAYS OF FORMATION FOR THE PURPOSE OF ESTABLISHING A VEGETATIVE COVER, OR LINED APPROPRIATELY.
11. SEDIMENT DEPOSITED OFF SITE AS A RESULT OF ON–SITE ACTIVITIES SHALL BE COLLECTED AND THE AREA CLEANED/REHABILITATED AS SOON AS REASONABLE AND PRACTICABLE.
12. CONCRETE WASTE AND CHEMICAL PRODUCTS INCLUDING PETROLEUM AND OIL-BASED PRODUCTS, SHALL BE PREVENTED FROM ENTERING ANY INTERNAL OR EXTERNAL WATER BODY, OR ANY EXTERNAL DRAINAGE SYSTEM, EXCLUDING THOSE ON-SITE WATER BODIES SPECIFICALLY DESIGNED TO CONTAIN AND/OR TREAT SUCH MATERIAL. APPROPRIATE

- MEASURES SHALL BE INSTALLED TO TRAP THESE MATERIALS ONSITE.
13. BRICK, TILE OR MASONRY CUTTINGS SHALL BE CARRIED OUT ON A PERVIOUS SURFACE (E.G. GRASS OR OPEN SOIL) AND IN SUCH A MANNER THAT ANY RESULTING SEDIMENT-LADEN RUNOFF IS PREVENTED FROM DISCHARGING INTO A GUTTER, DRAIN OR WATER. APPROPRIATE MEASURES SHALL BE INSTALLED TO TRAP THESE MATERIALS ONSITE.
14. NEWLY SEALED HARD-STAND AREAS (E.G. ROADS, DRIVEWAYS AND CAR PARKS) SHALL BE SWEEPED THOROUGHLY AS SOON AS PRACTICABLE AFTER SEALING/SURFACING TO MINIMISE THE RISK OF COMPONENTS OF THE SURFACING COMPOUND ENTERING THE STORMWATER DRAINS. STOCKPILES OF ERODIBLE MATERIAL SHALL BE PROVIDED WITH AN APPROPRIATE PROTECTIVE COVER (SYNTHETIC OR ORGANIC) IF THE MATERIALS ARE LIKELY TO BE STOCKPILED FOR MORE THAN 10 DAYS.
16. STOCKPILES, TEMPORARY OR PERMANENT, SHALL NOT BE LOCATED IN AREAS IDENTIFIED AS NO-GO ZONES (INCLUDING, BUT NOT LIMITED TO, RESTRICTED ACCESS AREAS, BUFFER ZONES, OR AREAS OF NON-DISTURBANCE) ON THE ESCP.
17. NO MORE THAN 150m OF STORMWATER, SEWER LINE OR OTHER SERVICE TRENCH SHALL BE TO OPEN AT ANY ONE TIME.
18. SITE SPOIL SHALL BE LAWFULLY DISPOSED OF IN A MANNER THAT DOES NOT RESULT IN ONGOING SOIL EROSION OR ENVIRONMENTAL HARM.
19. WHEREVER REASONABLE AND PRACTICABLE, STORMWATER RUNOFF ENTERING THE SITE FROM EXTERNAL AREAS, AND NON-SEDIMENT LADEN (CLEAN) STORMWATER RUNOFF ENTERING A WORK AREA OR AREA OF SOIL DISTURBANCE, SHALL BE DIVERTED AROUND OR THROUGH THAT AREA IN A MANNER THAT MINIMISES SOIL EROSION AND THE CONTAMINATION OF THAT WATER FROM ALL DISCHARGES UP TO THE SPECIFIED DESIGN STORM DISCHARGE.

SITE MANAGEMENT INCLUDING DUST

1. PRIORITY SHALL BE GIVEN TO THE PREVENTION, OR AT LEAST THE MINIMISATION, OF SOIL EROSION, RATHER THAN THE TRAPPING OF DISPLACED SEDIMENT. SUCH A CLAUSE SHALL NOT REDUCE THE RESPONSIBILITY TO APPLY AND MAINTAIN, AT ALL TIMES, ALL NECESSARY ESC MEASURES.
2. MEASURES USED TO CONTROL WIND EROSION SHALL BE APPROPRIATE FOR THE LOCATION AND PREVENT SOIL EROSION AND EMISSIONS FROM SITE AT ALL TIMES, INCLUDING WORKING HOURS, OUT OF HOURS, WEEKENDS, PUBLIC HOLIDAYS, AND DURING ANY OTHER SHUTDOWN PERIODS.
3. THE APPLICATION OF LIQUID OR CHEMICAL-BASED DUST SUPPRESSION MEASURES SHALL ENSURE THAT SEDIMENT-LADEN RUNOFF RESULTING FROM SUCH MEASURES DOES NOT CREATE A TRAFFIC OR ENVIRONMENTAL HAZARD.
4. ALL CUT AND FILL EARTH BATTERS LESS THAN 3m IN ELEVATION SHALL BE TOPSOILED, AND GRASS SEEDED/HYDROMULCHED WITHIN 10 DAYS OF COMPLETION OF GRADING IN CONSULTATION WITH COUNCIL.
5. ALL DISTURBED AREAS SHALL BE STABILISED IN ACCORDANCE WITH TIMELINES IN THE BLUE BOOK.
6. ALL REASONABLE AND PRACTICABLE MEASURES SHALL BE TAKEN TO PREVENT, OR AT LEAST MINIMISE, THE RELEASE OF SEDIMENT FROM THE SITE.
7. SUITABLE ALL-WEATHER MAINTENANCE ACCESS SHALL BE PROVIDED TO ALL SEDIMENT CONTROL DEVICES.
8. SEDIMENT CONTROL DEVICES OTHER THAN SEDIMENT BASINS SHALL BE DE-SILTED AND MADE FULLY OPERATIONAL AS SOON AS REASONABLE AND PRACTICABLE AFTER A SEDIMENT-PRODUCING EVENT, WETHER NATURAL OR ARTIFICIAL, IF THE DEVICES SEDIMENT RETENTION CAPACITY FALLS BELOW 75% OF ITS DESIGNED RETENTION CAPACITY.
9. ALL EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING DRAINAGE CONTROL MEASURES, SHALL BE MAINTAINED IN PROPER WORKING ORDER AT ALL TIMES DURING THEIR OPERATION LIVES.
10. WASHING/FLUSHING OF SEALED ROADWAYS SHALL ONLY OCCUR WHERE SWEEPING HAS FAILED TO REMOVE SUFFICIENT SEDIMENT AND THERE IS A COMPELLING NEED TO REMOVE THE REMAINING SEDIMENT (E.G. FOR SAFETY REASONS). IN SUCH CIRCUMSTANCES, ALL REASONABLE AND PRACTICABLE SEDIMENT CONTROL MEASURES SHALL BE USED TO PREVENT, OR AT LEAST MINIMISE, THE RELEASE OF SEDIMENT INTO THE RECEIVING WATERS. ONLY THOSE MEASURES THAT WILL NOT CAUSE SAFETY AND PROPERTY FLOODING ISSUES SHALL BE EMPLOYED. SEDIMENT REMOVED FROM ROADWAYS SHALL BE DISPOSED OF IN A LAWFUL MANNER THAT DOES NOT CAUSE ONGOING SOIL EROSION OR ENVIRONMENTAL HARM.
11. SEDIMENT REMOVED FROM SEDIMENT TRAPS AND PLACES OF SEDIMENT DEPOSITIONS SHALL BE DISPOSED OF IN A LAWFUL MANNER THAT DOES NOT CAUSE ONGOING SOIL EROSION OR ENVIRONMENTAL HARM.

REVEGETATION/STABILISATION

1. TEMPORARY STABILISATION MAY BE ATTAINED USING VEGETATION, NON WETTABLE SOIL POLYMERS, OR PNEUMATICALLY APPLIED EROSION CONTROLS.
2. ALL CUT AND FILL EARTH BATTERS LESS THAN 3m IN ELEVATION SHALL BE TOPSOILED, AND GRASS SEEDED/HYDROMULCHED WITHIN 10 DAYS OF COMPLETION OF GRADING IN CONSULTATION WITH COUNCIL.
3. AT THE COMPLETION OF FORMATION IN ANY SECTION, ALL DISTRIBUTED AREAS SHALL BE STABILISED IN ACCORDANCE WITH TIME LINES IN THE BLUE BOOK.
4. THE COUNCIL SEED MIX SHALL BE USED UNLESS STATED ON THE ESCP/SWMP.
5. THE PH LEVEL OF TOPSOIL SHALL BE APPROPRIATE TO ENABLE ESTABLISHMENT AND GROWTH OF SPECIFIED VEGETATION PRIOR TO INITIATING THE ESTABLISHMENT OF VEGETATION.
6. NON RETWETTABLE BINDER SHALL BE USED IN ALL HYDROMULCH/HYDROSEED POLYMER MIXES ON SLOPES OR WORKS ADJACENT TO A WATER COURSE.
7. SOIL AMELIORANTS SHALL BE ADDED TO THE SOIL IN ACCORDANCE WITH AN APPROVED LANDSCAPE PLAN, VEGETATION MANAGEMENT PLAN, AND/OR SOIL ANALYSIS.
8. PROCEDURES FOR INITIATING A SITE SHUTDOWN, WHETHER PROGRAMMED OR UN-PROGRAMMED, SHALL INCORPORATE REVEGETATION OF ALL SOIL DISTURBANCES UNLESS OTHERWISE APPROVED BY COUNCIL. THE STABILISATION WORKS SHALL NOT RELY UPON THE LONGEVITY OF NON-VEGETATED EROSION CONTROL BLANKETS, OR TEMPORARY SOIL BINDERS.

SITE MONITORING AND MAINTENANCE

1. THE APPLICANT SHALL ENSURE THAT APPROPRIATE PROCEDURES AND SUITABLY QUALIFIED PERSONNEL ARE ENGAGED TO PLAN AND CONDUCT SITE INSPECTIONS AND WATER QUALITY MONITORING THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PHASE.
2. ALL ESC MEASURES SHALL BE INSPECTED AND ANY MAINTENANCE UNDERTAKEN:

A) AT LEAST DAILY (WHEN WORKS IS OCCURRING ON-SITE); AND

B) AT LEAST WEEKLY (WHEN WORKS IS NOT OCCURRING ON-SITE) AND

C) WITHIN 24 HOURS OF EXPECTED RAINFALL; AND

D) WITHIN 18 HOURS OF A RAINFALL EVENT THAT CAUSES RUNOFF ON THE SITE.
3. WRITTEN RECORDS SHALL BE KEPT ONSITE OF ESC MONITORING AND MAINTENANCE ACTIVITIES CONDUCTED DURING THE CONSTRUCTION AND MAINTENANCE PERIODS, AND BE AVAILABLE TO COUNCIL OFFICERS ON REQUEST.
4. ALL ENVIRONMENTAL RELEVANT INCIDENTS SHALL BE RECORDED IN A FIELD LOG THAT SHALL REMAIN ACCESSIBLE TO ALL RELEVANT REGULATORY AUTHORITIES.
5. ALL WATER QUALITY DATA, INCLUDING DATES OF RAINFALL, DATES OF TESTING, TESTING RESULTS AND DATES OF WATER RELEASE, SHALL BE KEPT IN AN ON-SITE REGISTER. THE REGISTER IS TO BE MAINTAINED UP TO DATE FOR THE DURATION OF THE APPROVED WORKS AND BE AVAILABLE ON-SITE FOR INSPECTION BY ALL RELEVANT REGULATORY AUTHORITIES ON REQUEST.
6. AT NOMINATED INSTREAM WATER MONITORING SITES, A MINIMUM OF 3 WATER SAMPLES SHALL BE TAKEN AND ANALYSED, AND THE AVERAGE RESULT USED TO DETERMINE QUALITY.

STORMWATER NOTES

1. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DETAILS.
2. ALL WORKS ARE TO BE IN ACCORDANCE WITH AS3500, COUNCIL'S DEVELOPMENT CONTROL PLAN AND PROPRIETARY MANUFACTURERS RECOMMENDATIONS.
3. UNLESS OTHERWISE STATED, ALL STORMWATER PIPES (INCLUDING DOWNPIPES AND RAINWATER TANK OVERFLOW PIPES) ARE TO BE uPVC SEWER GRADE, U.N.O JOINTED & INSTALLED TO MANUFACTURERS RECOMMENDATIONS.
4. ALL uPVC STORMWATER LINES TO HAVE ALL JOINTS, INC. DOWNPIPE CONNECTIONS, FULLY SOLVENT WELDED, INCLUDING ANY CHARGED LINES.
5. CONNECT DOWNPIPES AS REQUIRED TO NOMINATED HARVESTING TANK IN ACCORDANCE WITH APPROVED DEVELOPMENT PLANS AND HYDRAULIC ENGINEERS DESIGN.
6. ALL LEVELS ARE DATUM AHD.
7. ALL LEVELS ARE FINISHED PAVEMENT OR LAWN LEVELS.
8. CONTRACTOR TO ALLOW FOR ALL PIPE SUPPORT SYSTEM TO SOFFIT AS PER MANUFACTURERS SPECIFICATIONS.
9. ALL CONCRETE TO BE MANUFACTURED AND SUPPLIED IN ACCORDANCE WITH AS1379.
10. AT COUNCILS DISCRETION, ALL CONCRETE CAN BE SUBJECT TO PROJECT ASSESSMENT AND TESTING TO AS1379
11. MINIMUM PIPE COVERS TO BE IN ACCORDANCE WITH AS3500.
12. PITS TO BE FILLED ACCORDINGLY TO MEET INVERTS AS NEEDED.
13. CONTRACTOR TO CONFIRM ALL LEVELS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES ARE TO BE IMMEDIATELY REPORTED TO WALLACE DESIGN GROUP.

SUBSOIL DRAINAGE NOTES

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATIONS FOR SUBSURFACE DRAINAGE.
2. SUBSOIL PIPE TO BE Ø100 SLOTTED PVC OR CORRUGATED CIRCULAR PLASTIC PIPE AND ENCLOSED IN SEAMLESS FILTER FABRIC SOCK
3. SUBSOIL DRAINS SHALL CONSIST OF A 300 (MINIMUM) WIDE TRENCH, BACKFILLED WITH 7 OR 10mm AGGREGATE AND WRAPPED IN BIDIM A12 GEOTEXTILE FABRIC OR SIMILAR, LAPPED AT THE TOP. DEPTH OF TRENCH TO EXTEND 450 (MINIMUM) IN ROCK OR 600 (MINIMUM) IN EARTH BELOW FINISHED SUB-GRADE LEVEL. INVERT OF TRENCH SHOULD ALSO BE LOWER THAN THE INVERT OF ANY SERVICE CROSSINGS.

ROAD/DRIVEWAY PAVEMENT NOTES

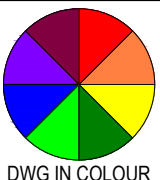
1. THE PAVEMENT DESIGN RECOMMENDATIONS SHOWN ON THESE DRAWINGS ARE INDICATIVE ONLY, AND ARE TO BE CONFIRMED BEFORE CONSTRUCTION CERTIFICATE STAGE BY A QUALIFIED AND CERTIFIED GEO-TECHNICAL ENGINEER.

RETAINING WALL NOTES

1. ALL RETAINING WALLS SHOWN ON THESE PLANS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL STRUCTURAL ENGINEERING AT TIME OF CONSTRUCTION CERTIFICATE STAGE.

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DWG IN COLOUR

|   |                  |          |       |       |
|---|------------------|----------|-------|-------|
| THIS DRAWING IS NOT APPROVED FOR CONSTRUCTION UNLESS ENDORSED |                  |          |       |       |
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| 2   | FOR CONSTRUCTION | 26.07.23 | K.B.  | K.B.  |
| 1   | FOR CONSTRUCTION | 21.07.23 | K.B.  | K.B.  |
| REV   | DESCRIPTION      | DATE     | APPVD | ENDOD |

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PROJECT:

CIVIL WORKS for

LOT 37, DP 232759

183 AMAROO DRIVE

SMITHS LAKE NSW 2428

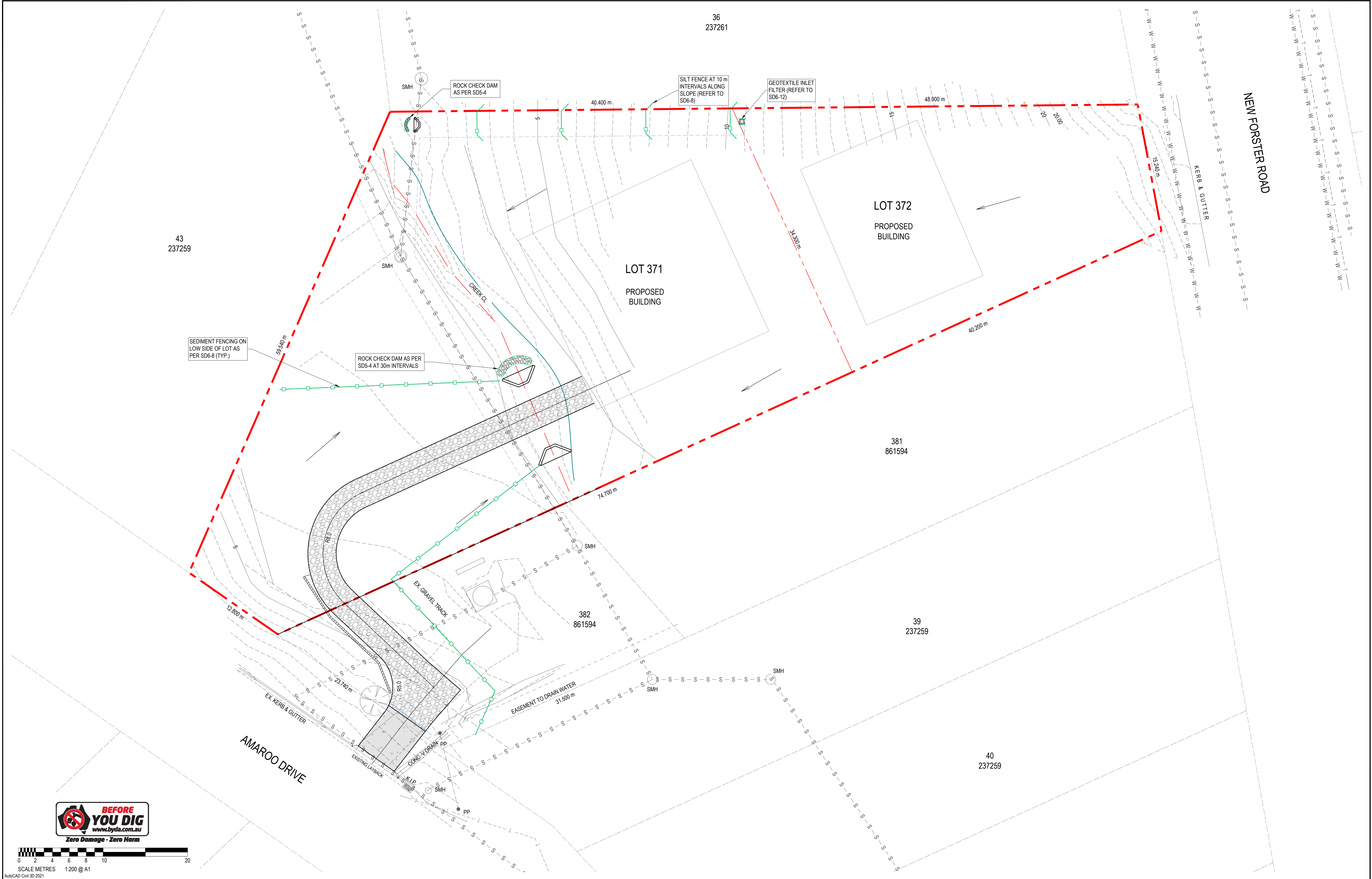
DRAWING TITLE:

CIVIL SERVICES

GENERAL NOTES

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| FOR CONSTRUCTION |          |             |          |            |          |
| SCALE:           |          |             |          | ORIG. SIZE |          |
| N.T.S.           |          |             |          | A1         |          |
| DRAWN            | DESIGNED | CHECKED     | APPROVED | ENDORSED   | DATE     |
| M.S.             | K.B.     | K.B.        | K.B.     | K.B.       | 26.07.23 |
| PROJECT No.      |          | DRAWING No. |          |            | REV      |
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|   |                  |          |       |       |
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| 2   | FOR CONSTRUCTION | 26.07.23 | K.B.  | K.B.  |
| 1   | FOR CONSTRUCTION | 21.07.23 | K.B.  | K.B.  |
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PROJECT:  
CIVIL WORKS for  
LOT 37, DP 237259  
183 AMAROO DRIVE  
SMITHS LAKE NSW 2428

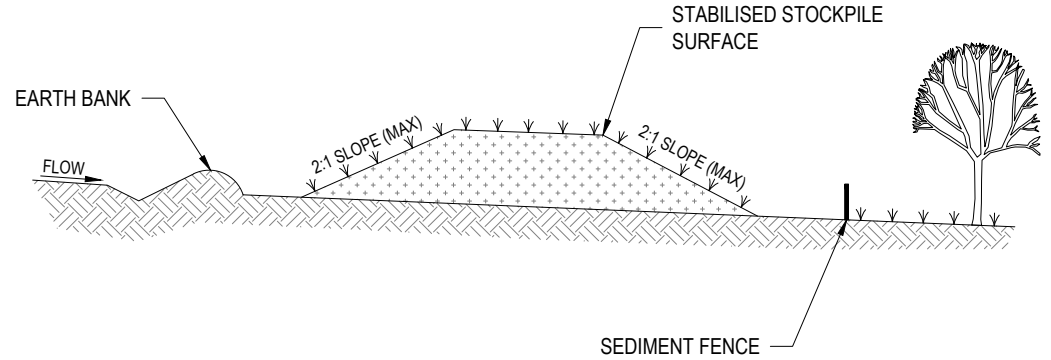
DRAWING TITLE:  
**CIVIL SERVICES**  
EROSION AND SEDIMENTATION  
CONTROL PLAN

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| DRAWING STATUS |          |             |          |                         | <b>FOR CONSTRUCTION</b> |  |
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| M.S.           | K.B.     | K.B.        | K.B.     | K.B.                    | 26.07.23                |  |
| PROJECT No.    |          | DRAWING No. |          |                         | REV                     |  |
| 23097          |          | C03.01      |          |                         | 2                       |  |



NOTE

1. ALL EROSION & SEDIMENTATION CONTROL (ESC) PLAN DETAILS SHOWN ARE FROM "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION", LANDCOM, 2004. DETAILS, ALTHOUGH NOT SPECIFICALLY IDENTIFIED FOR USE ON THE ESC PLAN (SHEET C03.01), ARE PROVIDED IN THE EVENT ADDITIONAL CONTROLS ARE REQUIRED TO MINIMISE ON-SITE EROSION DURING THE COURSE OF CONSTRUCTION. IF AN ESC DETAIL IS NOT SHOWN, CONTRACTOR SHALL REFER TO THE ABOVE REFERENCED GUIDE.



STABILISED STOCKPILE SURFACE

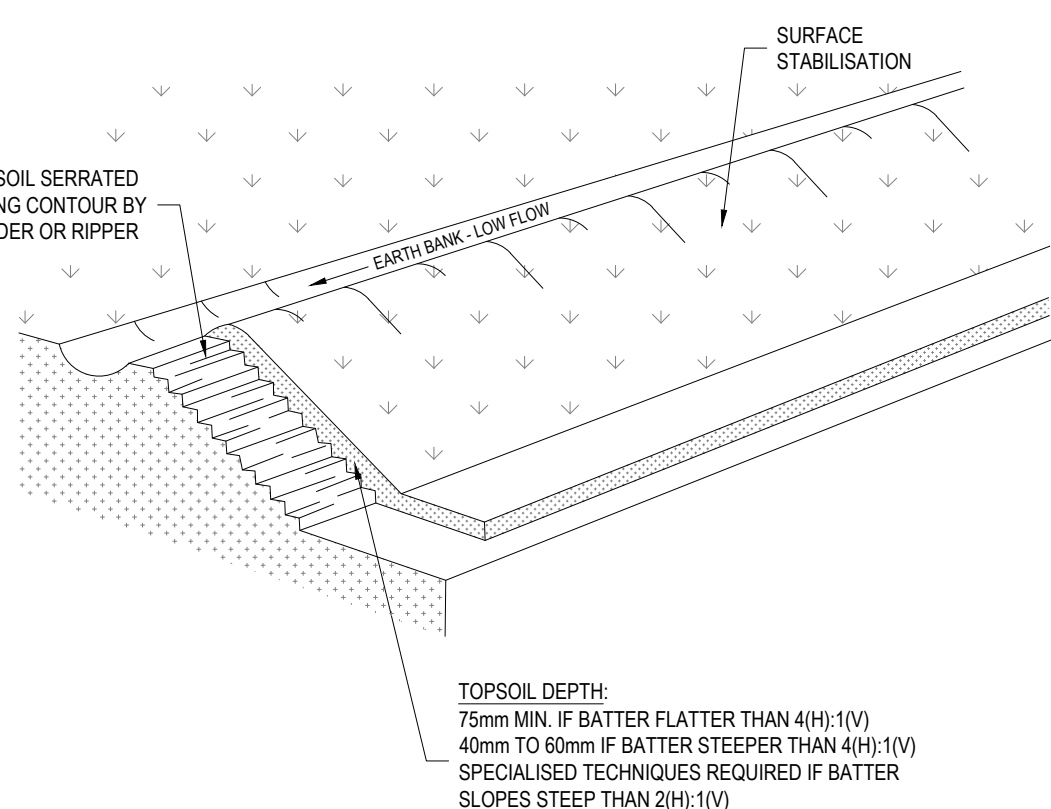
SEDIMENT FENCE

CONSTRUCTION NOTES:

- PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METERS FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
- CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
- WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METERS IN HEIGHT.
- WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
- CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2 METERS DOWNSLOPE.

STOCKPILES

SD 4-1



SUBSOIL SERRATED ALONG CONTOUR BY GRADER OR RIPPER

SURFACE STABILISATION

EARTH BANK - LOW FLOW

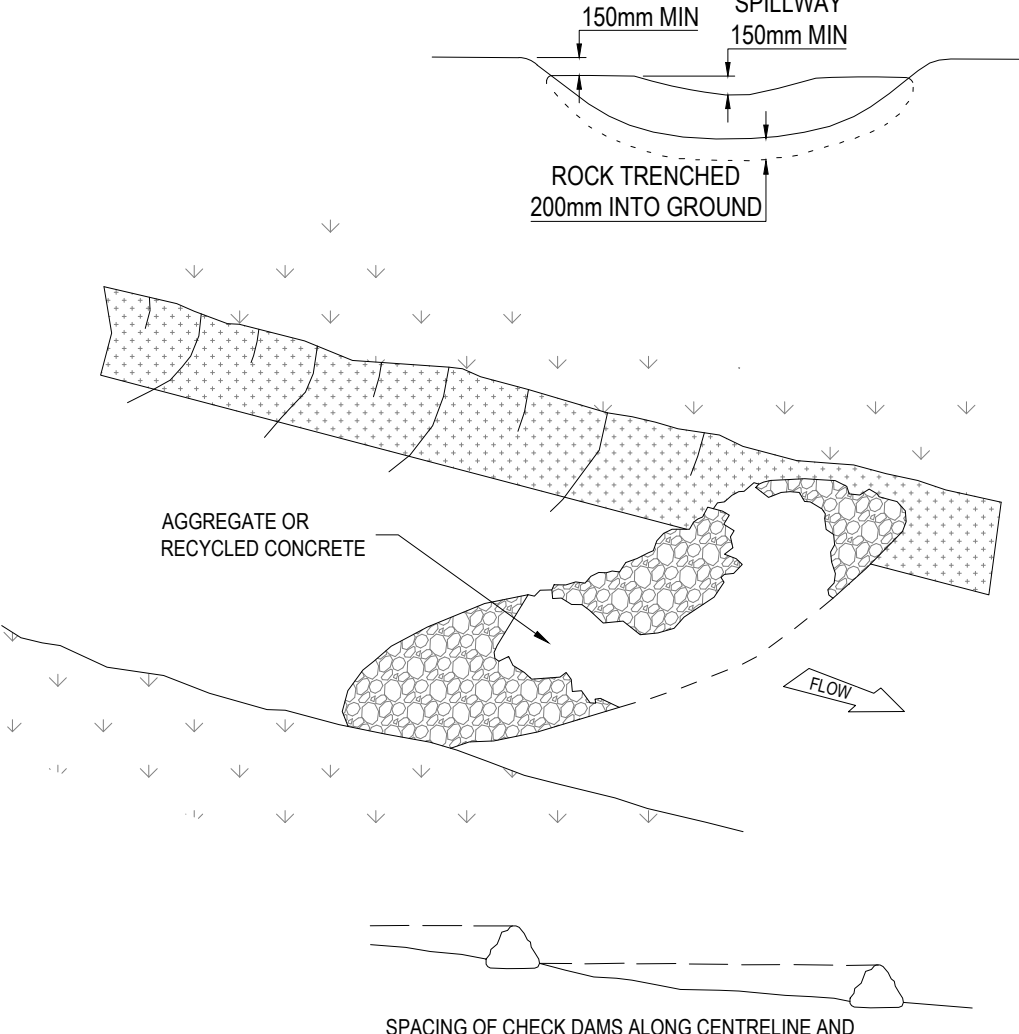
TOPSOIL DEPTH:  
75mm MIN. IF BATTER FLATTER THAN 4(H):1(V)  
40mm TO 60mm IF BATTER STEEPER THAN 4(H):1(V)  
SPECIALISED TECHNIQUES REQUIRED IF BATTER SLOPES STEEP THAN 2(H):1(V)

CONSTRUCTION NOTES:

- SCARIFY THE GROUND SURFACE ALONG THE LINE OF THE CONTOUR TO A DEPTH OF 50mm TO 100mm TO BREAK UP ANY HARDBEATING SURFACES AND TO PROVIDE A GOOD BOND BETWEEN THE RESPREAD MATERIAL AND SUBSOIL.
- ADD SOIL AMELIORANTS AS REQUIRED BY THE ESCP OR SWMP.
- RIP TO A DEPTH OF 300mm IF COMPACTED LAYERS OCCUR.
- WHERE POSSIBLE, REPLACE TOPSOIL TO A DEPTH OF 40 TO 60mm ON LANDS WHERE THE SLOPE EXCEEDS 4(H):1(V) AND TO AT LEAST 75mm ON LOWER GRADIENTS.

REPLACING TOPSOIL

SD 4-2



SPILLWAY  
150mm MIN

ROCK TRENCH  
200mm INTO GROUND

AGGREGATE OR RECYCLED CONCRETE

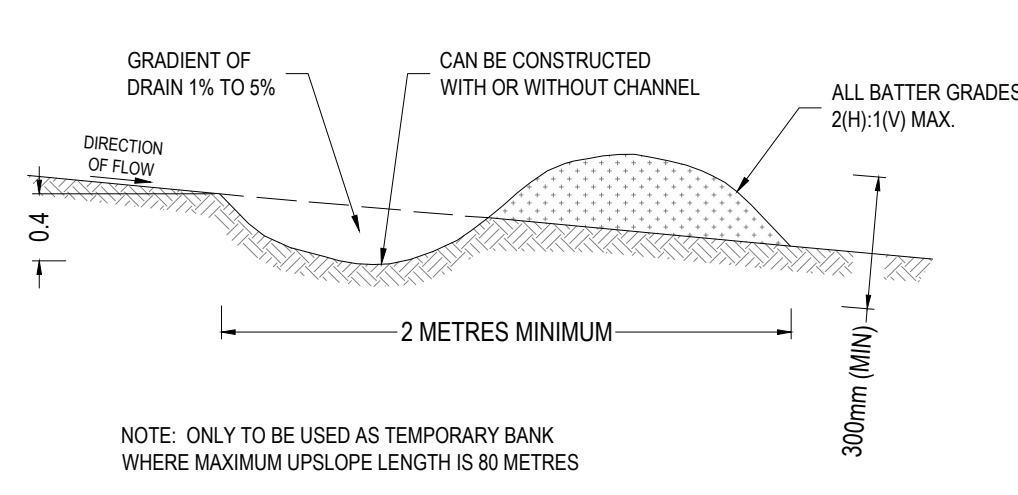
SPACING OF CHECK DAMS ALONG CENTRELINE AND SCOUR PROTECTION BELOW EACH CHECK DAM TO BE SPECIFIED ON SWMP/ESCP.

CONSTRUCTION NOTES:

- CHECK DAMS CAN BE BUILT WITH VARIOUS MATERIALS, INCLUDING ROCKS, LOGS, SANBAGS AND STRAW BALES. THE MAINTENANCE PROGRAM SHOULD ENSURE THEIR INTEGRITY IS RETAINED, ESPECIALLY WHERE CONSTRUCTED WITH STRAW BALES. IN THE CASE OF BALES, THIS MIGHT REQUIRE THEIR REPLACEMENT EACH TWO TO FOUR MONTHS.
- TRENCH THE CHECK DAM 200mm INTO THE GROUND ACROSS ITS WHOLE WIDTH. WHERE ROCK IS USED, FILL THE TRENCHES TO AT LEAST 100mm ABOVE THE GROUND SURFACE TO REDUCE THE RISK OF UNDERCUTTING.
- NORMALLY, THEIR MAXIMUM HEIGHT SHOULD NOT EXCEED 600mm ABOVE THE GULLY FLOOR. THE CENTRE SHOULD ACT AS A SPILLWAY, BEING AT LEAST 150mm LOWER THAN THE OUTER EDGE.
- SPACE THE DAMS SO THE TOE OF THE UPSTREAM DAM IS LEVEL WITH THE SPILLWAY OF THE NEXT DOWNSTREAM DAM.

ROCK CHECK DAM

SD 5-4



GRADIENT OF DRAIN 1% TO 5%

SPILLWAY  
150mm MIN

CAN BE CONSTRUCTED WITH OR WITHOUT CHANNEL

ALL BATTER GRADES 2(H):1(V) MAX.

2 METRES MINIMUM

300mm (MIN)

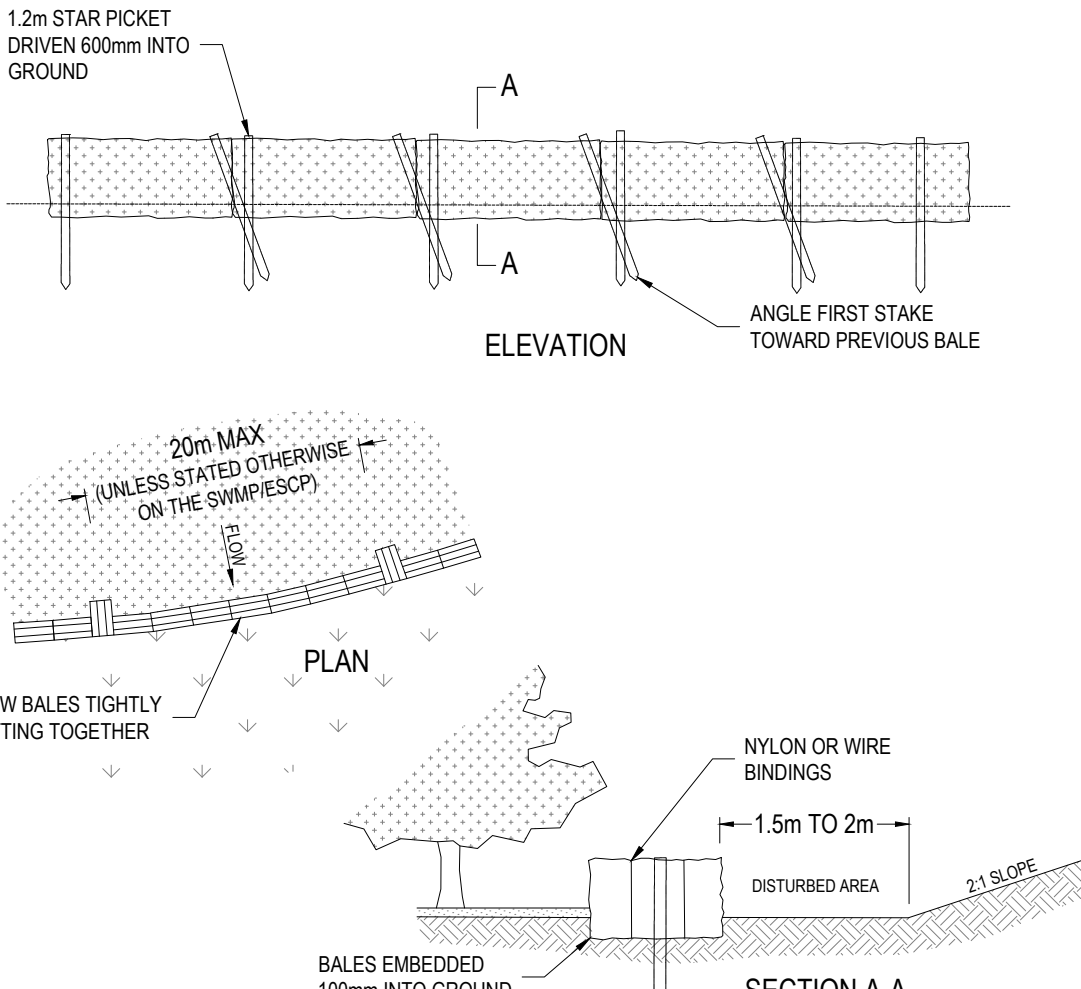
NOTE: ONLY TO BE USED AS TEMPORARY BANK WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES

CONSTRUCTION NOTES:

- BUILD WITH GRADIENTS BETWEEN 1 PERCENT AND 5 PERCENT.
- AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
- ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
- BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V-SHAPED.
- ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
- COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.

EARTH BANK (LOW FLOW)

SD 5-5



1.2m STAR PICKET DRIVEN 600mm INTO GROUND

ELEVATION

ANGLE FIRST STAKE TOWARD PREVIOUS BALE

20m MAX (UNLESS STATED OTHERWISE ON THE SWMP/ESCP)

PLAN

STRAW BALES TIGHTLY ABUTTING TOGETHER

NYLON OR WIRE BINDINGS

1.5m TO 2m

DISTURBED AREA

2:1 SLOPE

BALES EMBEDDED 100mm INTO GROUND

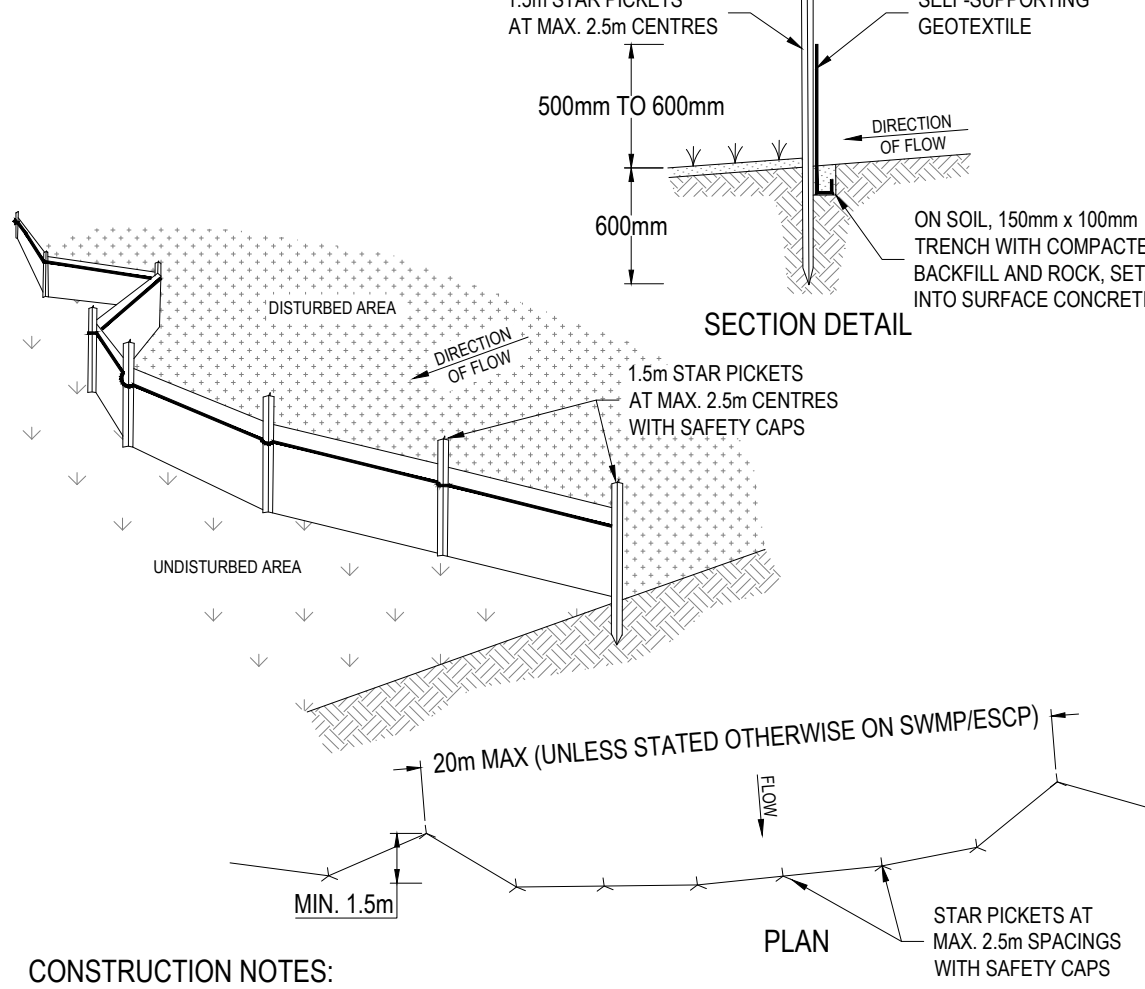
SECTION A-A

CONSTRUCTION NOTES:

- CONSTRUCT THE STRAW BALE FILTER AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE.
- PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN BALES. STRAWS ARE TO BE PLACED PARALLEL TO GROUND.
- ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE.
- EMBED EACH BALE IN THE GROUND 75mm TO 100mm AND ANCHOR WITH TWO 1.2m STAR PICKETS OR STAKES. ANGLE THE FIRST STAR PICKET OR STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE. DRIVE THEM 600mm INTO THE GROUND AND, IF POSSIBLE, FLUSH WITH THE TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY PROTRUDE ABOVE THE BALES, ENSURE THEY ARE FITTED WITH SAFETY CAPS.
- WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER, ENSURE THE BALES ARE PLACED 1 TO 2 METRES DOWNSLOPE FROM THE TOE.
- ESTABLISH A MAINTENANCE PROGRAM THAT ENSURES THE INTEGRITY OF THE BALES IS RETAINED - THEY COULD REQUIRE REPLACEMENT EACH TWO TO FOUR MONTHS.

STRAW BALE FILTER

SD 6-7



1.5m STAR PICKETS AT MAX. 2.5m CENTRES

500mm TO 600mm

600mm

SECTION DETAIL

SELF-SUPPORTING GEOTEXTILE

DIRECTION OF FLOW

ON SOIL, 150mm x 100mm TRENCH WITH COMPACTED BACKFILL AND ROCK, SET INTO SURFACE CONCRETE

1.5m STAR PICKETS AT MAX. 2.5m CENTRES WITH SAFETY CAPS

20m MAX (UNLESS STATED OTHERWISE ON SWMP/ESCP)

MIN. 1.5m

PLAN

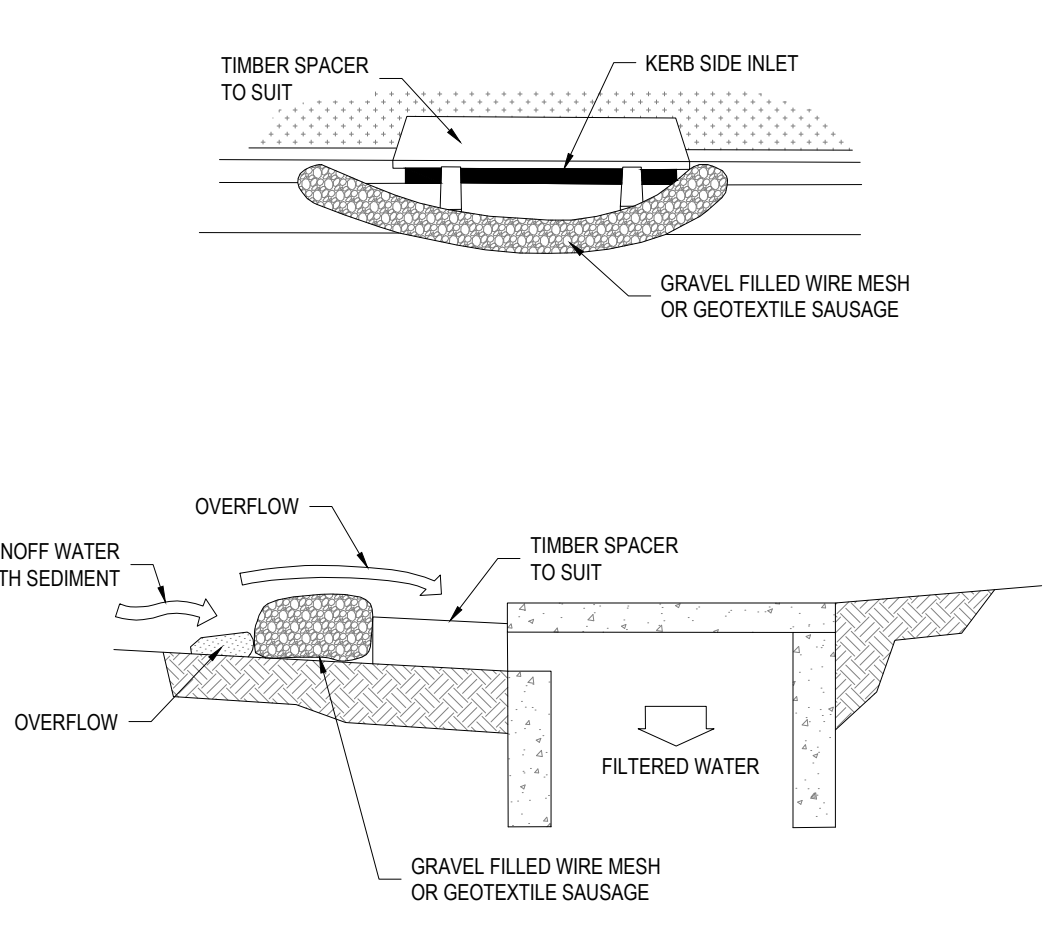
STAR PICKETS AT MAX. 2.5m SPACINGS WITH SAFETY CAPS

CONSTRUCTION NOTES:

- CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
- CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
- DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
- FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
- JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
- BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE

SD 6-8



TIMBER SPACER TO SUIT

KERB SIDE INLET

GRAVEL FILLED WIRE MESH OR GEOTEXTILE SAUSAGE

OVERFLOW

RUNOFF WATER WITH SEDIMENT

TIMBER SPACER TO SUIT

FILTERED WATER

GRAVEL FILLED WIRE MESH OR GEOTEXTILE SAUSAGE

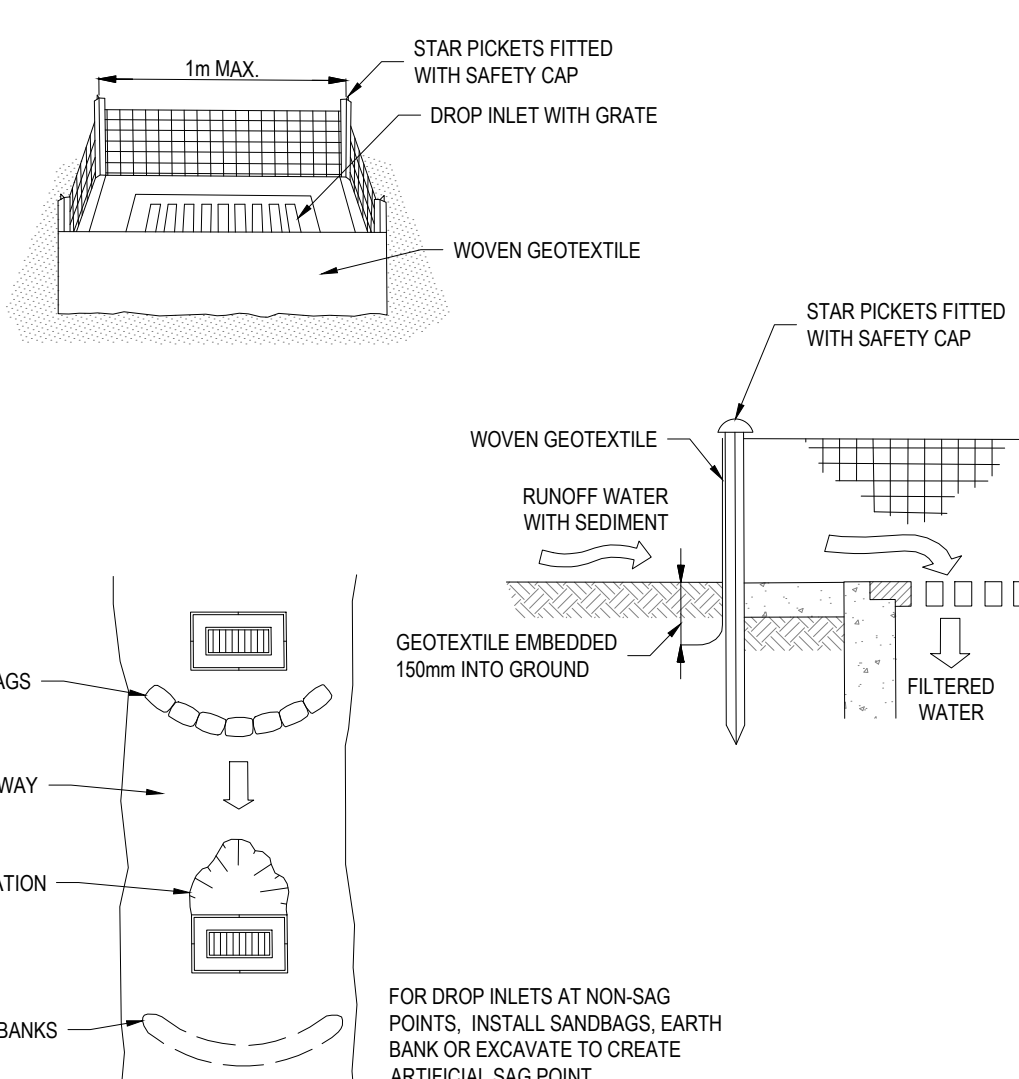
NOTE: THIS PRACTICE ONLY TO BE USED WHERE SPECIFIED IN AN APPROVED SWMP/ESCP

CONSTRUCTION NOTES:

- INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
- FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
- FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH X 400mm WIDE.
- PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
- FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
- SANBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

MESH AND GRAVEL INLET FILTER

SD 6-11



1m MAX.

STAR PICKETS FITTED WITH SAFETY CAP

DROP INLET WITH GRATE

WOVEN GEOTEXTILE

SANBAGS

WATERWAY

EXCAVATION

EARTH BANKS

STAR PICKETS FITTED WITH SAFETY CAP

WOVEN GEOTEXTILE

RUNOFF WATER WITH SEDIMENT

GEOTEXTILE EMBEDDED 150mm INTO GROUND

FILTERED WATER

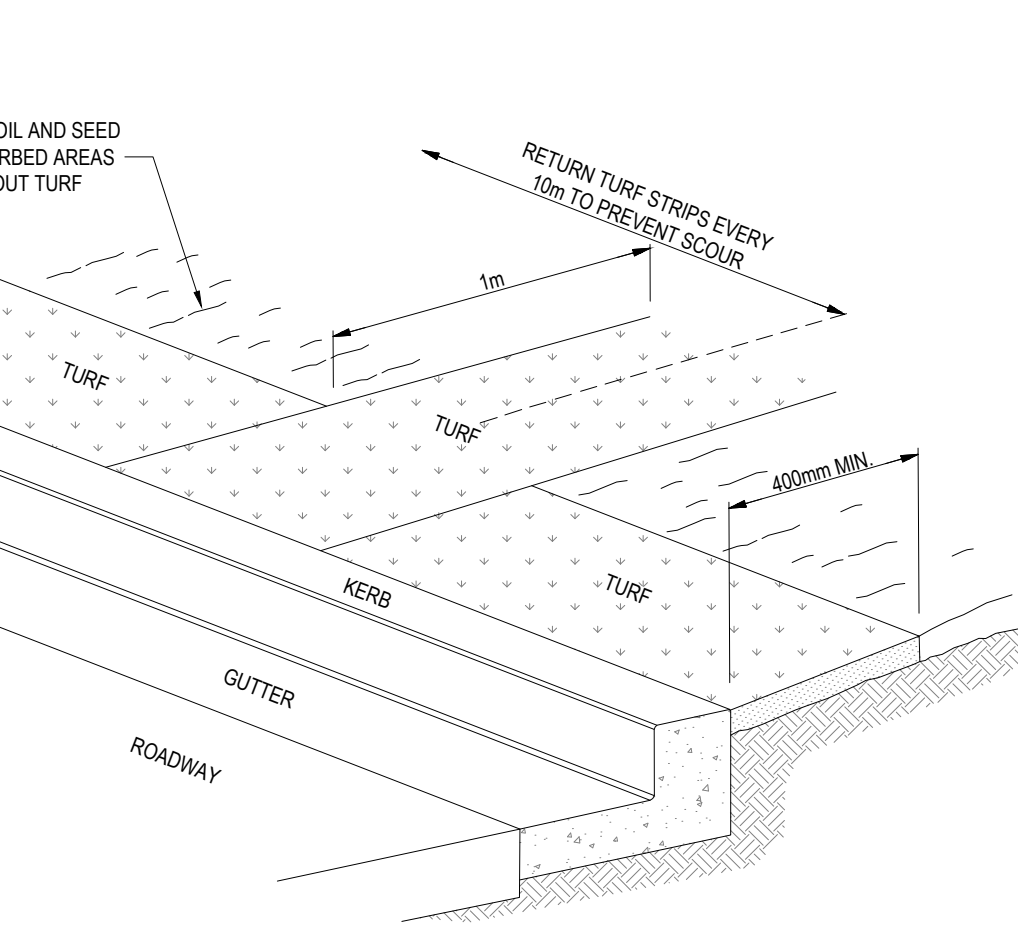
FOR DROP INLETS AT NON-SAG POINTS, INSTALL SANBAGS, EARTH BANK OR EXCAVATE TO CREATE ARTIFICIAL SAG POINT.

CONSTRUCTION NOTES:

- FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
- FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
- IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
- DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER

SD 6-12



TOPSOIL AND SEED DISTURBED AREAS WITHOUT TURF

RETURN TURF STRIPS EVERY 10m TO PREVENT SCOUR

1m

400mm MIN

TURF

KERB

GUTTER

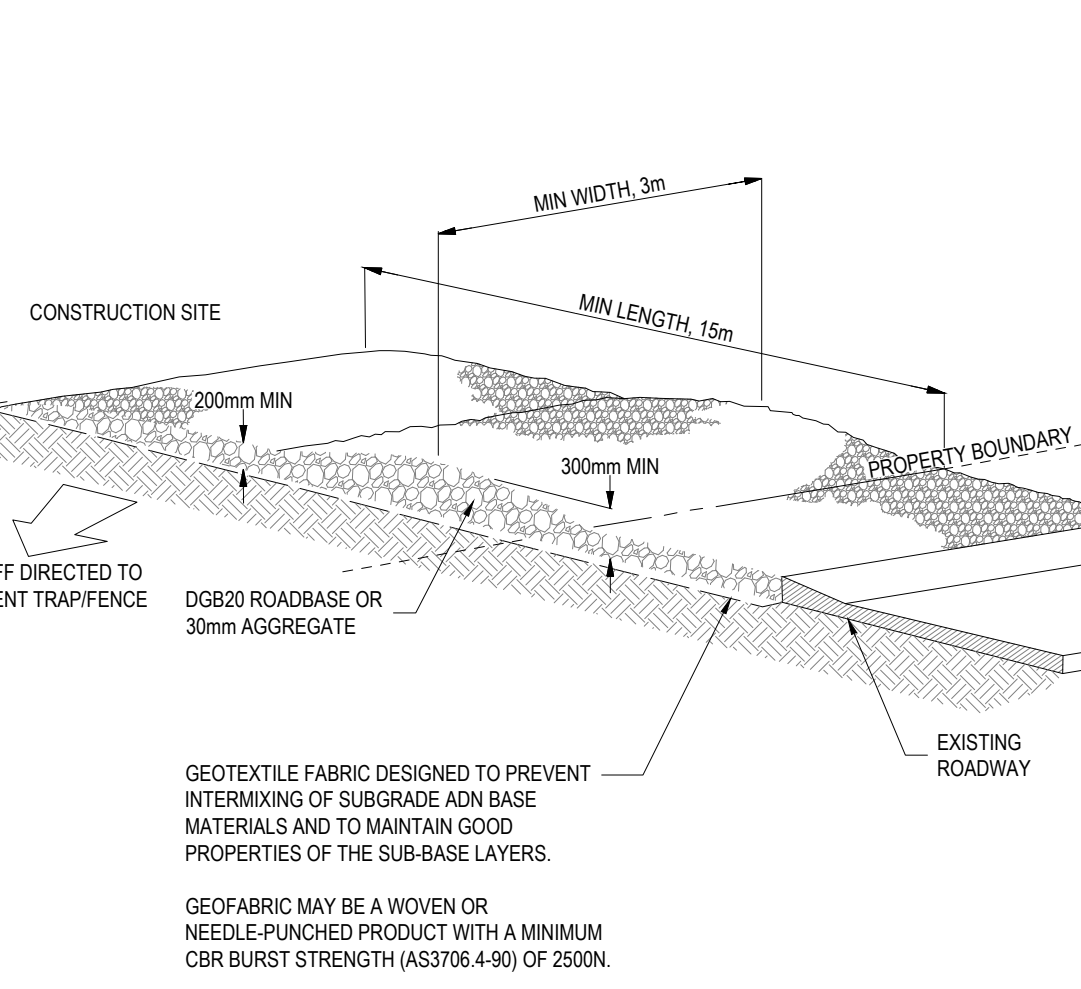
ROADWAY

CONSTRUCTION NOTES:

- INSTALL A 400mm MINIMUM WIDE ROLL OF TURF ON THE FOOTPATH NEXT TO THE KERB AND AT THE SAME LEVEL AS THE TOP OF THE KERB AND LIGHTLY COMPACTED INTO THE TOPSOIL.
- LAY 1.4 METRE LONG TURF STRIPS NORMAL TO THE KERB EVERY 10 METRES.
- REHABILITATE DISTURBED SOIL BEHIND THE KERB BY SPREADING 20-25mm THICK LAYER OF TOPSOIL AND BROADCAST SEED MIX AT A RATE OF 0.3kg/10m<sup>2</sup>. UNLESS SPECIFIED OTHERWISE, TO DISTURBED AREAS WHERE TURF HAS NOT BEEN INSTALLED. SEEDS SHOULD BE SCRATCHED INTO THE SURFACE TO REDUCE THE INCIDENCE OF INGESTION BY BIRDS. IF SEED MIX DOES NOT INCLUDE STARTER FERTILISER, APPLY FERTILISER AT A RATE AS SPECIFIED.

KERBSIDE TURF STRIP

SD 6-13



CONSTRUCTION SITE

MIN WIDTH, 3m

MIN LENGTH, 15m

200mm MIN

300mm MIN

DGB20 ROADBASE OR 30mm AGGREGATE

PROPERTY BOUNDARY

RUNOFF DIRECTED TO SEDIMENT TRAP/FENCE

EXISTING ROADWAY

GEOTEXTILE FABRIC DESIGNED TO PREVENT INTERMIXING OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE LAYERS.

GEOFABRIC MAY BE A WOVEN OR NEEDLE-PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF 2500N.

CONSTRUCTION NOTES:

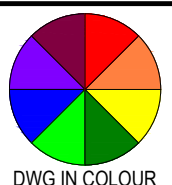
- STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
- COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
- CONSTRUCTION A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
- ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE.
- WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

STABILISED SITE ACCESS

SD 6-14

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|   |                  |          |       |       |  |
| 2   | FOR CONSTRUCTION | 26.07.23 | K.B.  | K.B.  |  |
| 1   | FOR CONSTRUCTION | 21.07.23 | K.B.  | K.B.  |  |
| REV   | DESCRIPTION      | DATE     | APP'D | END'D |  |

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tfish@midcoasttownplanning.com.au  
0499 612 844

CLIENT:  
HAYDEN HALSTED  
183 AMAROO DRIVE  
SMITHS LAKE NSW 2428



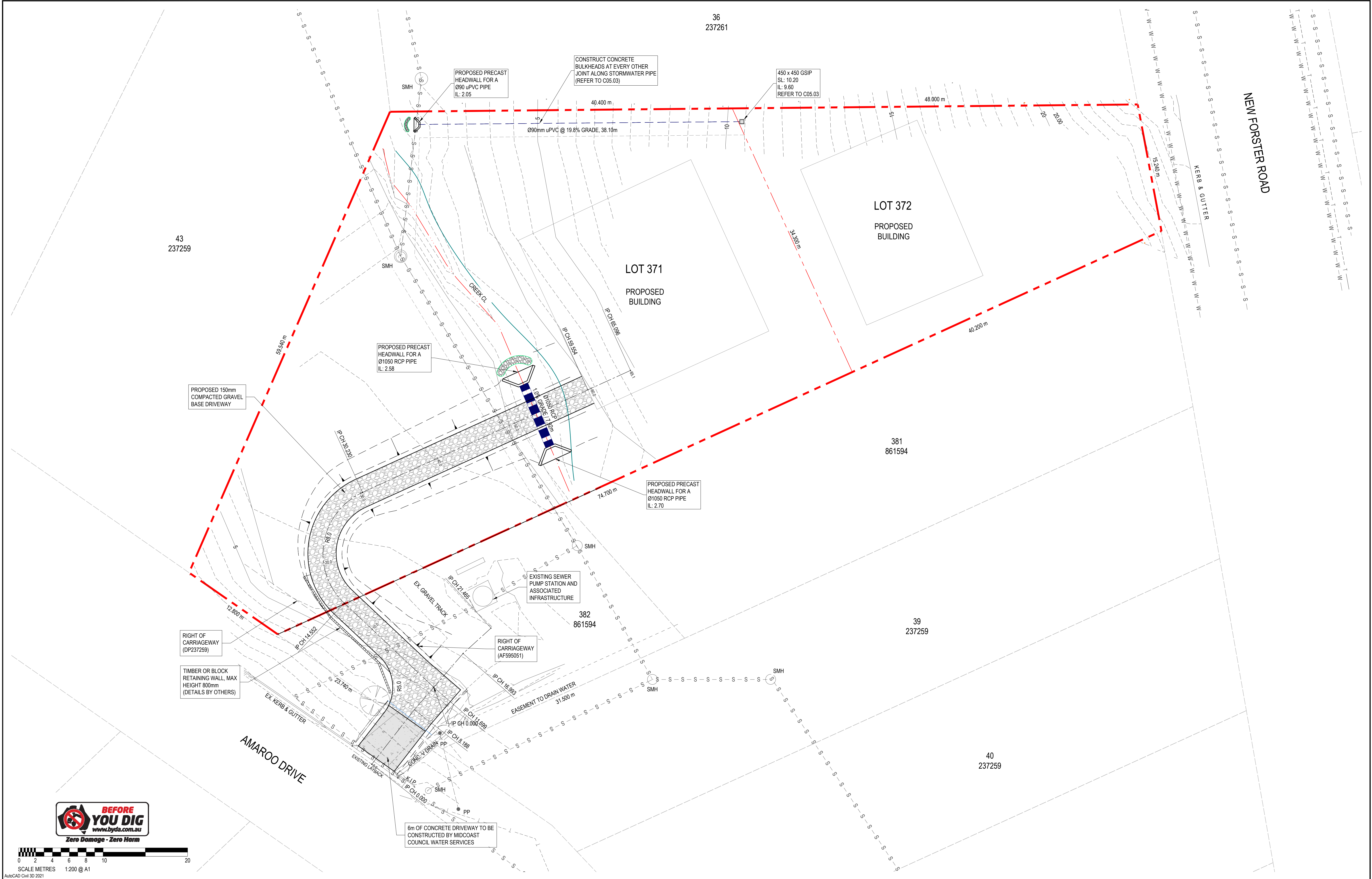
**WALLACE INFRASTRUCTURE DESIGN PTY LTD**  
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web: [www.wdsigroup.com.au](http://www.wdsigroup.com.au)

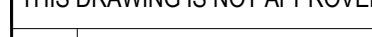
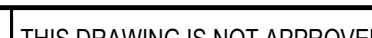

PROJECT:  
CIVIL WORKS for  
LOT 37, DP 237259  
183 AMAROO DRIVE  
SMITHS LAKE NSW 2428

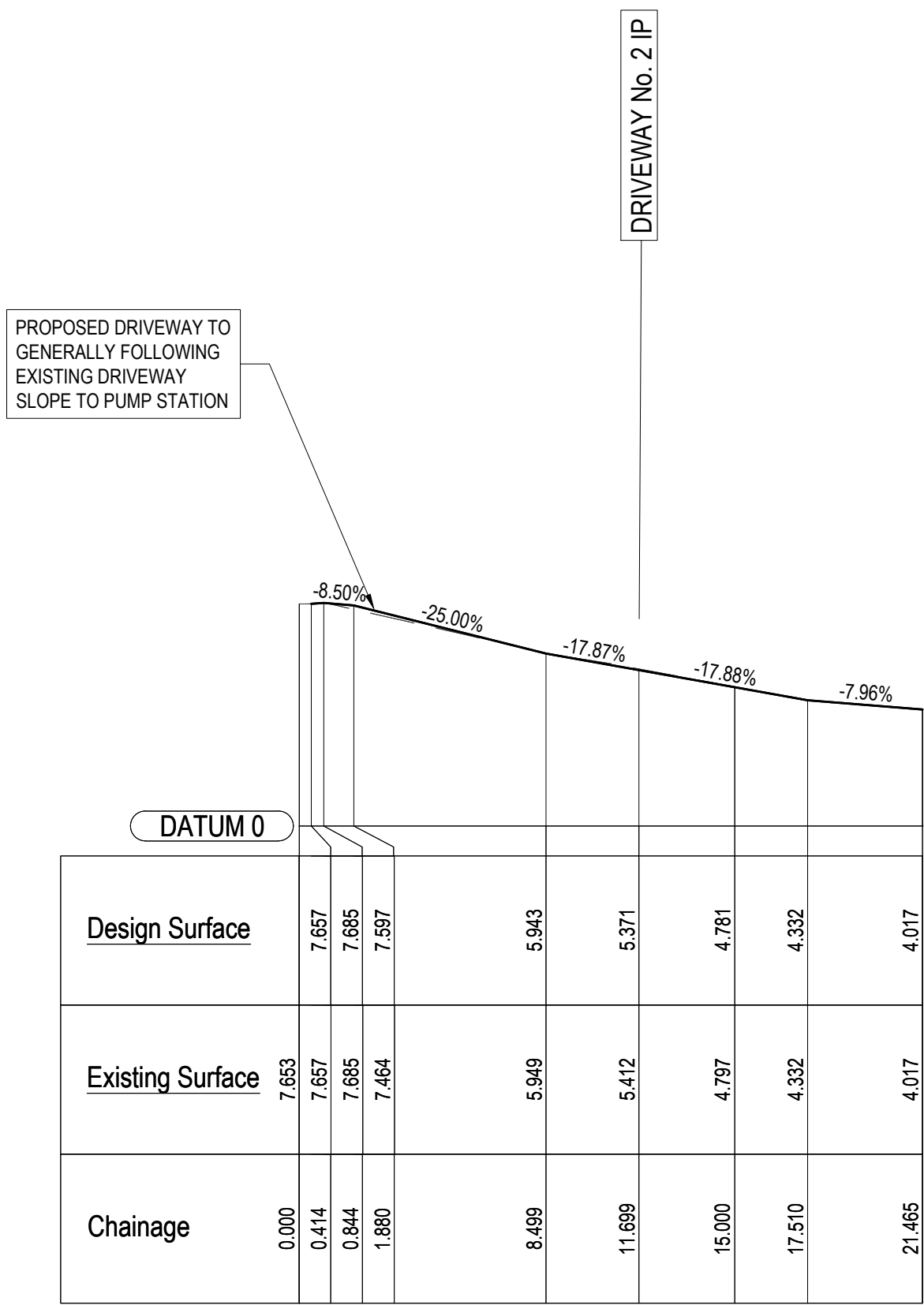
DRAWING TITLE:  
**CIVIL SERVICES**  
EROSION AND SEDIMENTATION  
CONTROL DETAILS

| DRAWING STATUS   |          |             |          |          |            |
|------------------|----------|-------------|----------|----------|------------|
| FOR CONSTRUCTION |          |             |          |          | ORIG. SIZE |
| SCALE: N.T.S.    |          |             |          |          | A1         |
| DRAWN            | DESIGNED | CHECKED     | APPROVED | ENDORSED | DATE       |
| M.S.             | K.B.     | K.B.        | K.B.     | K.B.     | 26.07.23   |
| PROJECT No.      |          | DRAWING No. |          |          | REV        |
| 23097            |          | C03.02      |          |          | 2          |

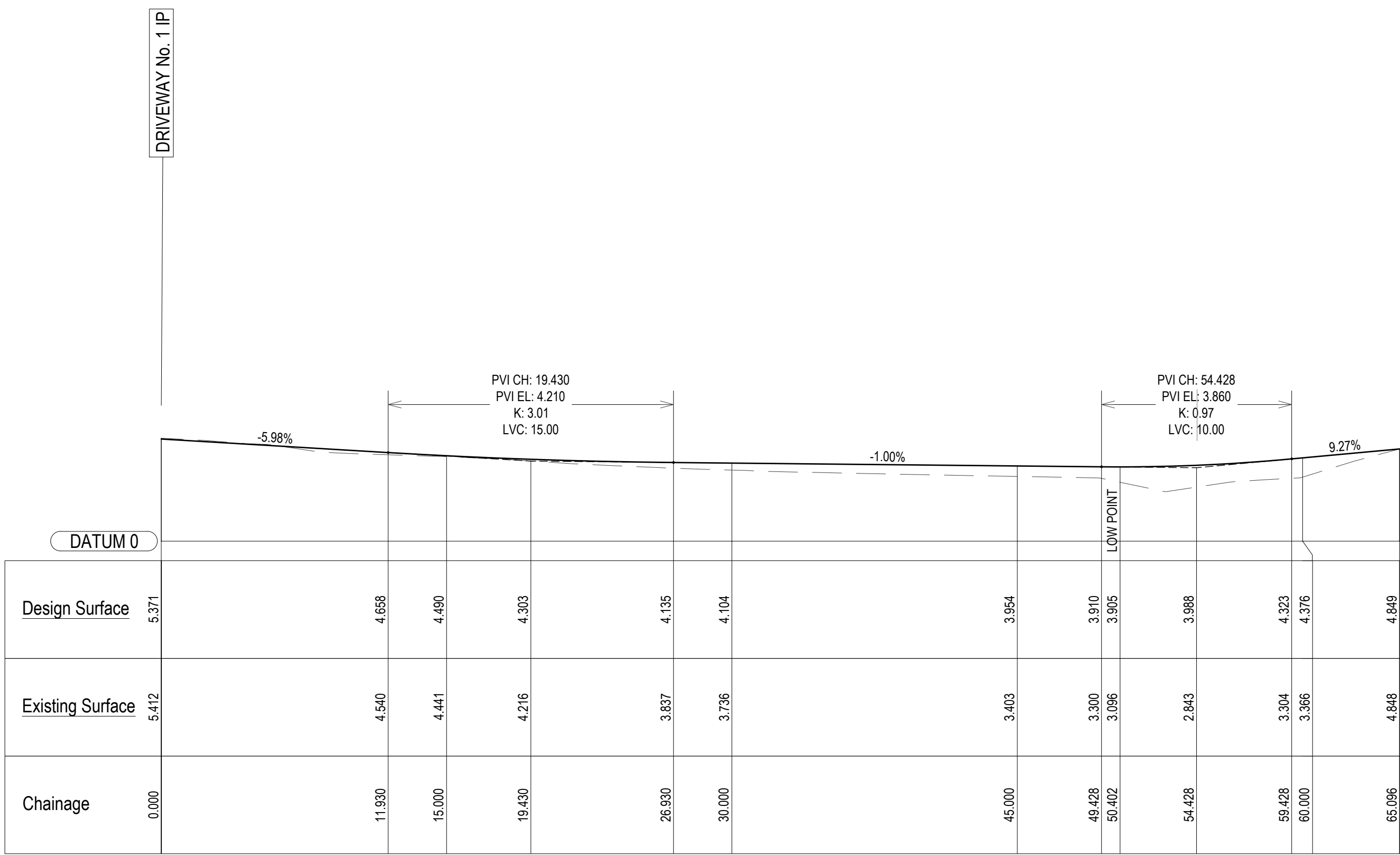




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|---|--|---|--|--|--|---|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|------------------|--|--|--|--|--|
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|   |  | SCALE: 1:200  |  |  |  | ORIG. SIZE<br>A1  |  |  |  | DRAWN<br>M.S.   |  |  |  | DESIGNED<br>K.B.   |  |  |  | CHECKED<br>K.B.  |  |  |  | APPROVED<br>K.B.   |  |  |  | ENDORSED<br>K.B.                          |  |  |  | DATE<br>26.07.23 |  |  |  |  |  |
|   |  | PROJECT No.<br>23097  |  |  |  | DRAWING No.<br>C04.01   |  |  |  | REV<br>2  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |                  |  |  |  |  |  |
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LONGITUDINAL SECTION  
DRIVEWAY No. 1



LONGITUDINAL SECTION  
DRIVEWAY No. 2



SCALE METRES 1:200 @ A1

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| REV | DESCRIPTION      | DATE     | APPVD | ENDOD |

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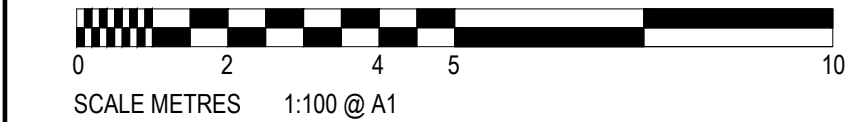
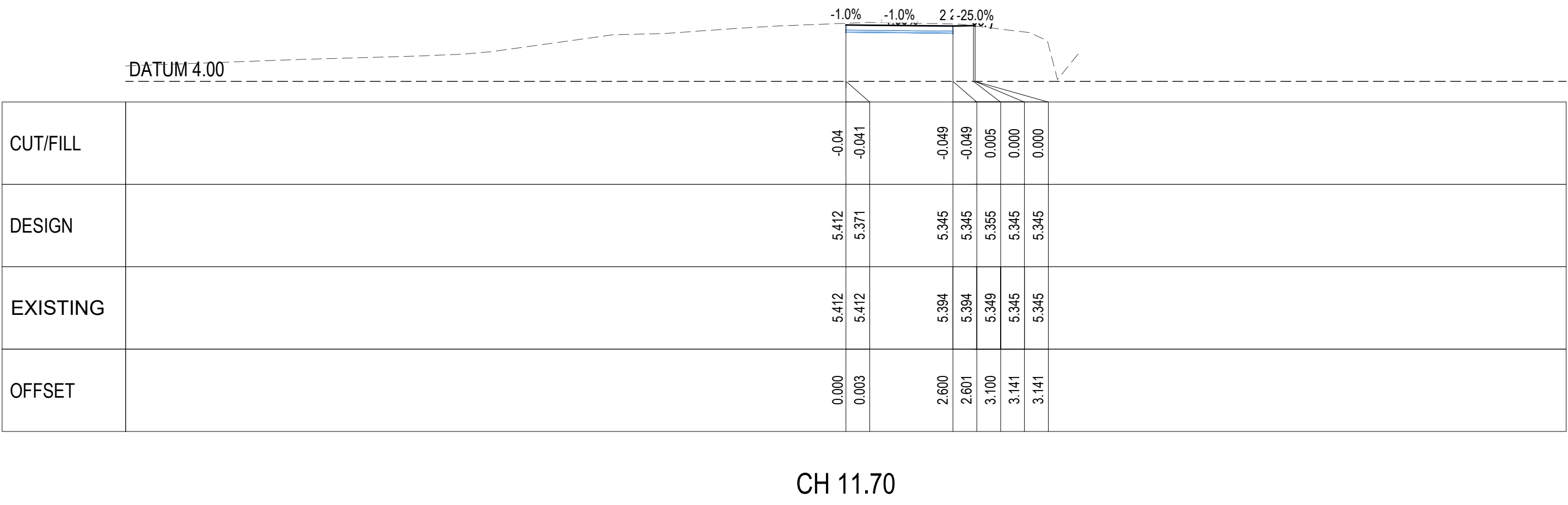
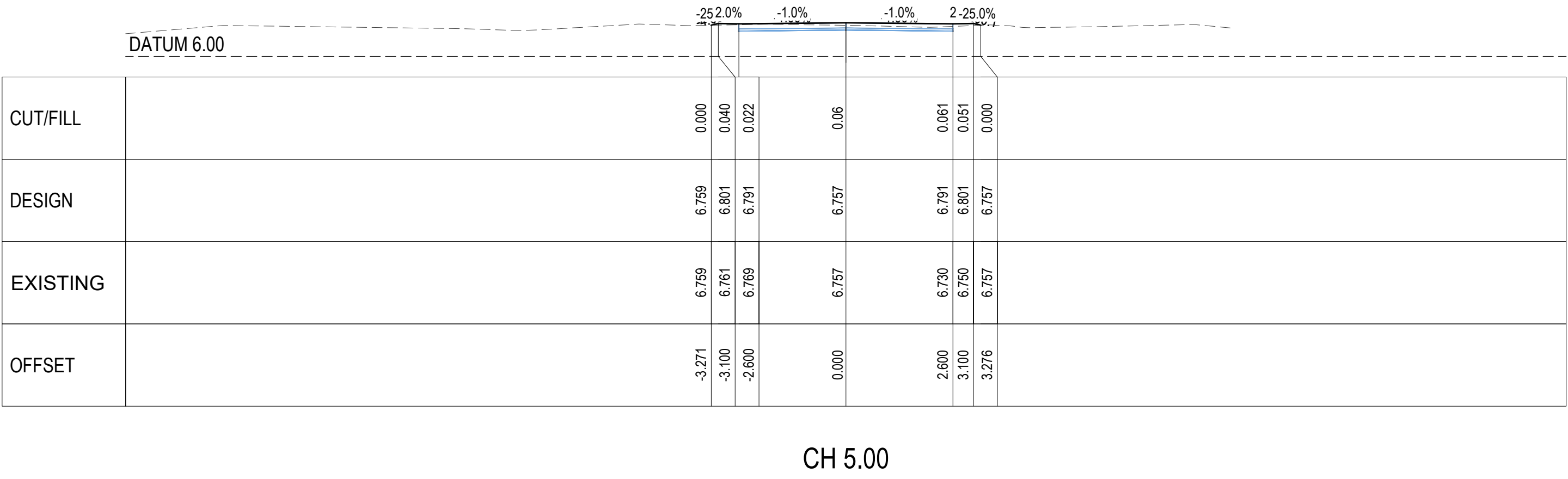
PROJECT:  
CIVIL WORKS for  
LOT 37, DP 237259  
183 AMAROO DRIVE  
SMITHS LAKE NSW 2428

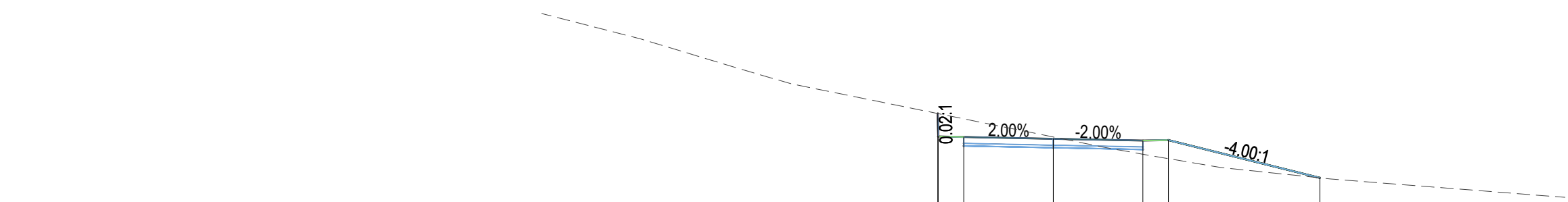
DRAWING TITLE:  
**CIVIL SERVICES**  
DRIVEWAY No.1 & No. 2  
LONGITUDINAL SECTION

DRAWING STATUS **FOR CONSTRUCTION**

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|----------------------|------------------|-----------------------|------------------|------------------|------------------|
| SCALE: 1:200         |                  |                       |                  |                  | ORIG. SIZE<br>A1 |
| DRAWN<br>M.S.        | DESIGNED<br>K.B. | CHECKED<br>K.B.       | APPROVED<br>K.B. | ENDORSED<br>K.B. | DATE<br>26.07.23 |
| PROJECT No.<br>23097 |                  | DRAWING No.<br>C04.02 |                  |                  | REV<br>2         |

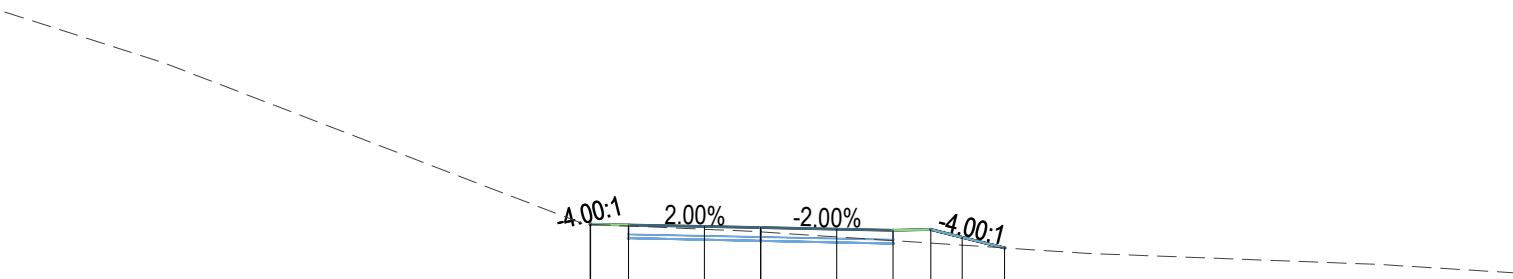






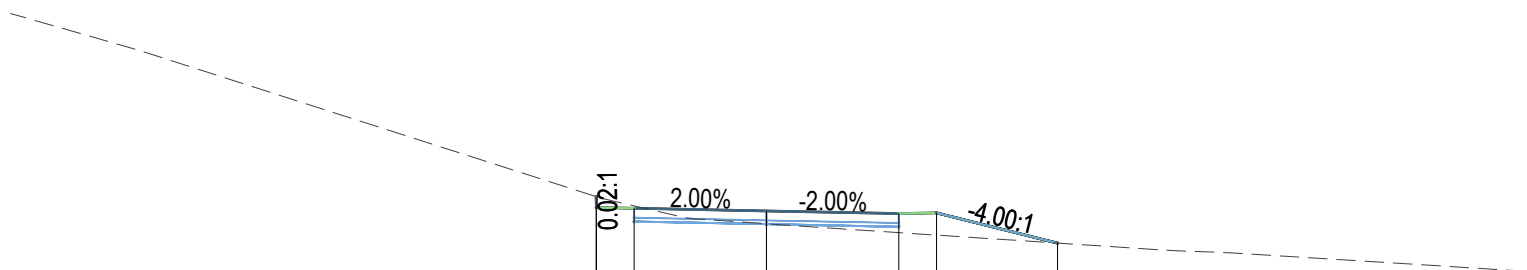
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CH 5.00



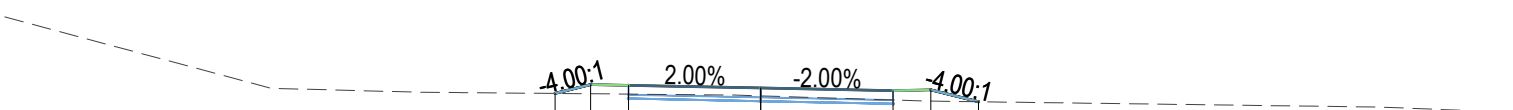
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CH 14.52



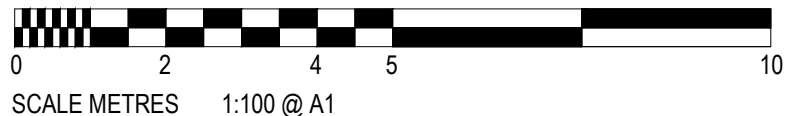
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CH 10.00

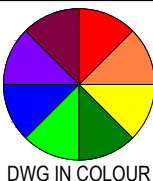


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| OFFSET     |  | -2.721 | -2.250 | -1.750 | 0.000 |

CH 20.00



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| 2   | FOR CONSTRUCTION | 26.07.23 | K.B. K.B.   |
| 1   | FOR CONSTRUCTION | 21.07.23 | K.B. K.B.   |
| REV   | DESCRIPTION      | DATE     | APPVD ENDOD |

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PROJECT:  
CIVIL WORKS for  
LOT 37, DP 237259  
183 AMAROO DRIVE  
SMITHS LAKE NSW 2428

DRAWING TITLE:  
**CIVIL SERVICES**  
DRIVEWAY No. 2  
CROSS SECTIONS

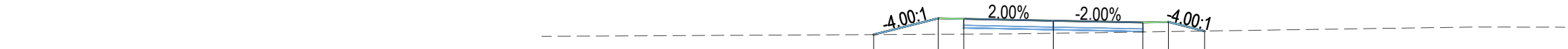
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| DRAWN                                  | DESIGNED | CHECKED            | APPROVED | ENDORSED      | DATE     |
| M.S.                                   | K.B.     | K.B.               | K.B.     | K.B.          | 26.07.23 |
| PROJECT No. 23097                      |          | DRAWING No. C04.04 |          |               | REV 2    |

23097

C04.04

2





DATUM 2.00

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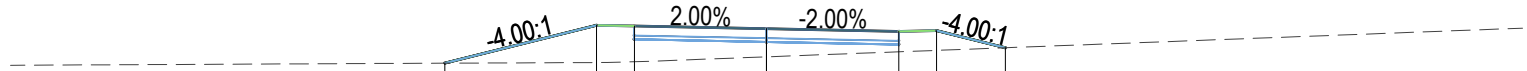
CH 25.00



DATUM 2.00

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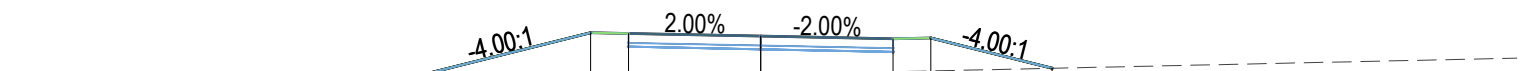
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DATUM 2.00

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CH 30.23



DATUM 2.00

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CH 40.00



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|   |                  |          |       |       |
|---|------------------|----------|-------|-------|
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|   |                  |          |       |       |
|   |                  |          |       |       |
|   |                  |          |       |       |
|   |                  |          |       |       |
| 2   | FOR CONSTRUCTION | 26.07.23 | K.B.  | K.B.  |
| 1   | FOR CONSTRUCTION | 21.07.23 | K.B.  | K.B.  |
| REV   | DESCRIPTION      | DATE     | APPVD | ENDOD |

|          |                                  |
|----------|----------------------------------|
| PLANNER: | MIDCOAST PLANNING PTY LTD        |
|          | TONY FISH                        |
|          | tfish@midcoastownplanning.com.au |
|          | 0499 612 844                     |

|         |                      |
|---------|----------------------|
| CLIENT: | HAYDEN HALSTED       |
|         | 183 AMAROO DRIVE     |
|         | SMITHS LAKE NSW 2428 |

WALLACE DESIGN GROUP

WALLACE INFRASTRUCTURE DESIGN PTY LTD

PART OF WALLACE DESIGN GROUP PTY LTD

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email: [enq@wdsdesigngroup.com.au](mailto:enq@wdsdesigngroup.com.au)

web: [www.wdsdesigngroup.com.au](http://www.wdsdesigngroup.com.au)

|          |                      |
|----------|----------------------|
| PROJECT: | CIVIL WORKS for      |
|          | LOT 37, DP 237259    |
|          | 183 AMAROO DRIVE     |
|          | SMITHS LAKE NSW 2428 |

|                |                |
|----------------|----------------|
| DRAWING TITLE: | CIVIL SERVICES |
|                | DRIVEWAY No. 2 |
|                | CROSS SECTIONS |

|                  |          |         |             |            |          |
|------------------|----------|---------|-------------|------------|----------|
| DRAWING STATUS   |          |         |             |            |          |
| FOR CONSTRUCTION |          |         |             |            |          |
| SCALE:           |          |         |             | ORIG. SIZE |          |
| 1:200            |          |         |             | A1         |          |
| DRAWN            | DESIGNED | CHECKED | APPROVED    | ENDORSED   | DATE     |
| M.S.             | K.B.     | K.B.    | K.B.        | K.B.       | 26.07.23 |
| PROJECT No.      |          |         | DRAWING No. |            | REV      |
| 23097            |          |         | C04.05      |            | 2        |

PLOTTED BY:- KEN      DATE:- 26 July 2023 8 20 PM      FILENAME:- O:\PROJECTS\2023\23097 - 183 AMAROO DR. SMITHS LAKE\CAD\TITLE\23097\_CIV\_CC\_2\2

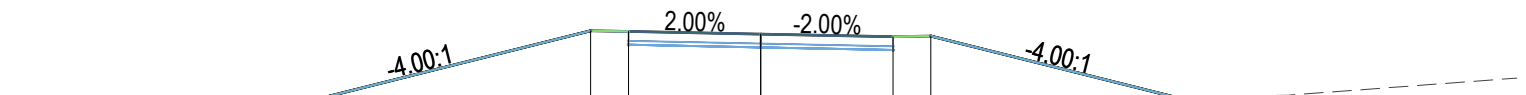




DATUM 2.00

|          |  |        |  |        |        |  |       |       |       |  |       |  |
|----------|--|--------|--|--------|--------|--|-------|-------|-------|--|-------|--|
| CUT/FILL |  | 0.000  |  | 0.611  | 0.588  |  | 0.551 | 0.491 | 0.491 |  | 0.000 |  |
| DESIGN   |  | 3.371  |  | 3.999  | 3.989  |  | 3.954 | 3.919 | 3.929 |  | 3.478 |  |
| EXISTING |  | 3.371  |  | 3.388  | 3.391  |  | 3.403 | 3.428 | 3.439 |  | 3.478 |  |
| OFFSET   |  | -4.765 |  | -2.250 | -1.750 |  | 0.000 | 1.750 | 2.250 |  | 4.055 |  |

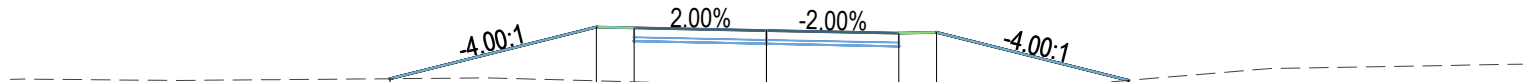
CH 45.00



DATUM 2.00

|          |  |        |  |        |        |  |       |       |       |  |       |  |
|----------|--|--------|--|--------|--------|--|-------|-------|-------|--|-------|--|
| CUT/FILL |  | 0.000  |  | 1.073  | 1.049  |  | 0.989 | 0.894 | 0.892 |  | 0.000 |  |
| DESIGN   |  | 3.087  |  | 4.209  | 4.199  |  | 4.164 | 4.129 | 4.139 |  | 3.322 |  |
| EXISTING |  | 3.087  |  | 3.106  | 3.150  |  | 3.195 | 3.235 | 3.247 |  | 3.322 |  |
| OFFSET   |  | -6.737 |  | -2.250 | -1.750 |  | 0.000 | 1.750 | 2.250 |  | 5.517 |  |

CH 57.50



DATUM 2.00

|          |  |        |  |        |        |  |       |       |       |  |       |  |
|----------|--|--------|--|--------|--------|--|-------|-------|-------|--|-------|--|
| CUT/FILL |  | 0.000  |  | 0.710  | 0.714  |  | 0.726 | 0.717 | 0.721 |  | 0.000 |  |
| DESIGN   |  | 3.268  |  | 3.951  | 3.941  |  | 3.906 | 3.871 | 3.881 |  | 3.247 |  |
| EXISTING |  | 3.268  |  | 3.241  | 3.227  |  | 3.180 | 3.154 | 3.160 |  | 3.247 |  |
| OFFSET   |  | -4.982 |  | -2.250 | -1.750 |  | 0.000 | 1.750 | 2.250 |  | 4.787 |  |

CH 50.00



SCALE METRES 1:100 @ A1

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|-----|------------------|----------|-------|-------|--|
|     |                  |          |       |       |  |
|     |                  |          |       |       |  |
|     |                  |          |       |       |  |
|     |                  |          |       |       |  |
|     |                  |          |       |       |  |
| 2   | FOR CONSTRUCTION | 26.07.23 | K.B.  | K.B.  |  |
| 1   | FOR CONSTRUCTION | 21.07.23 | K.B.  | K.B.  |  |
| REV | DESCRIPTION      | DATE     | APPVD | ENDOD |  |

PLANNER:  
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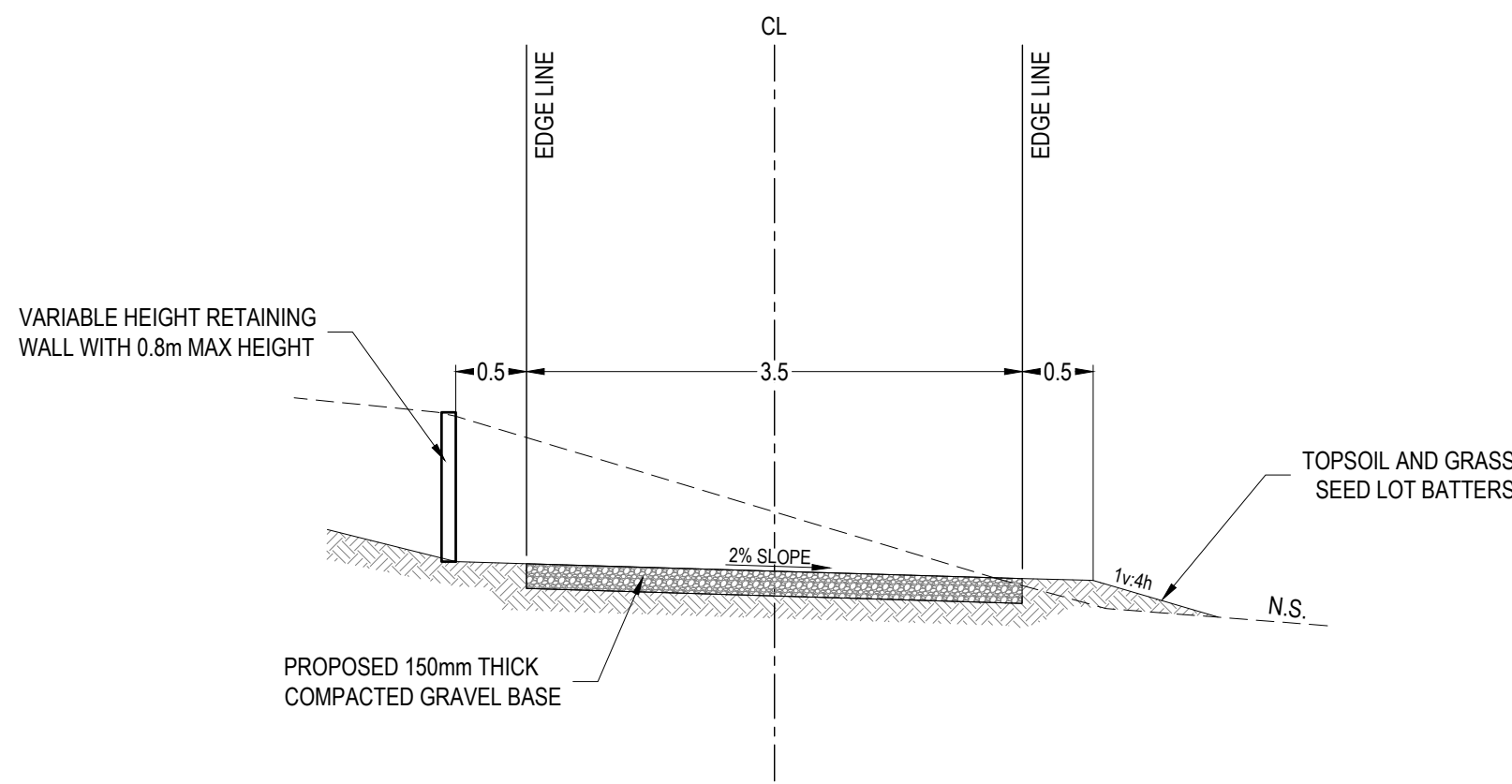
PROJECT:  
CIVIL WORKS for  
LOT 37, DP 237259  
183 AMAROO DRIVE  
SMITHS LAKE NSW 2428

DRAWING TITLE:  
**CIVIL SERVICES**  
DRIVEWAY No. 2  
CROSS SECTIONS

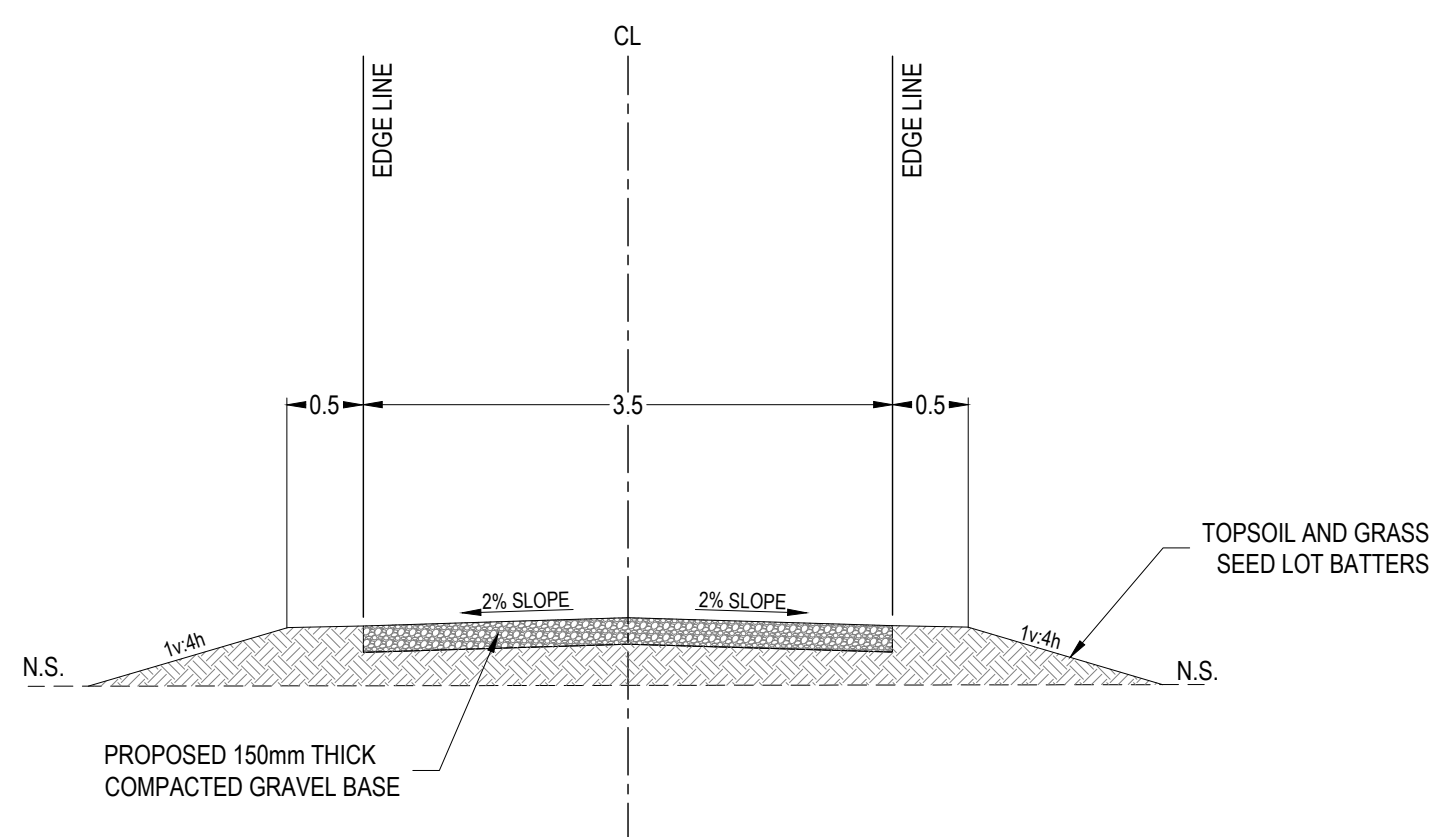
DRAWING STATUS **FOR CONSTRUCTION**

|                   |          |                    |          |          |               |
|-------------------|----------|--------------------|----------|----------|---------------|
| SCALE: 1:200      |          |                    |          |          | ORIG. SIZE A1 |
| DRAWN             | DESIGNED | CHECKED            | APPROVED | ENDORSED | DATE          |
| M.S.              | K.B.     | K.B.               | K.B.     | K.B.     | 26.07.23      |
| PROJECT No. 23097 |          | DRAWING No. C04.06 |          |          | REV 2         |

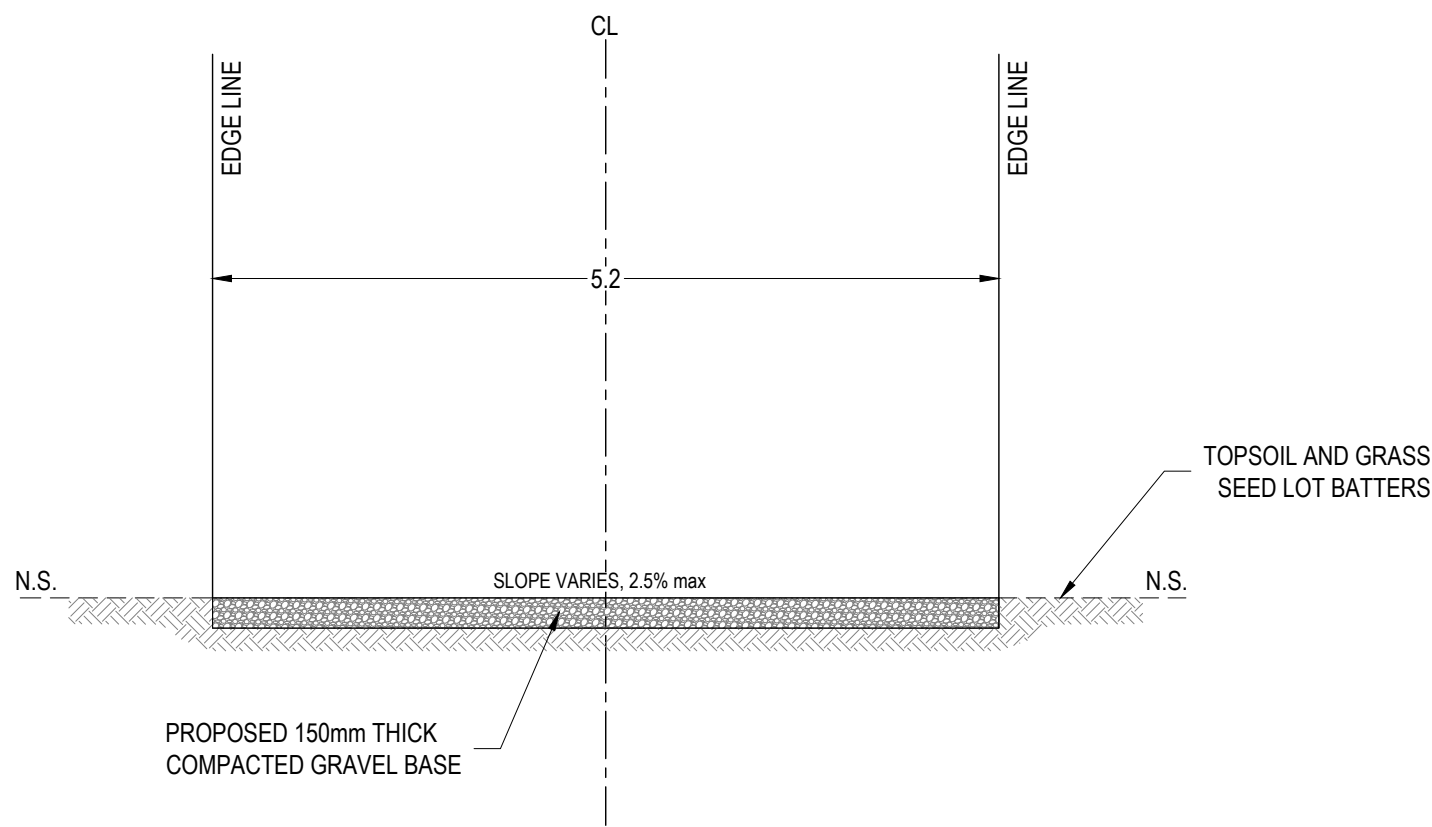




TYPICAL 3.5m DRIVEWAY No.2 -  
CH 0.000 TO 19.500  
1:50



TYPICAL 3.5m DRIVEWAY No.2 -  
CH 19.500 TO END  
1:50



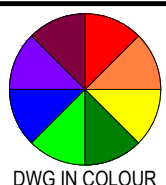
DRIVEWAY No.1 TYPICAL SECTION  
1:50



SCALE METRES 1:50 @ A1

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| REV | DESCRIPTION      | DATE     | APPVD | ENDOD |
|-----|------------------|----------|-------|-------|
| 2   | FOR CONSTRUCTION | 26.07.23 | K.B.  | K.B.  |
| 1   | FOR CONSTRUCTION | 21.07.23 | K.B.  | K.B.  |

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SMITHS LAKE NSW 2428



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email: [enq@wdsigroup.com.au](mailto:enq@wdsigroup.com.au)  
web: [www.wdsigroup.com.au](http://www.wdsigroup.com.au)

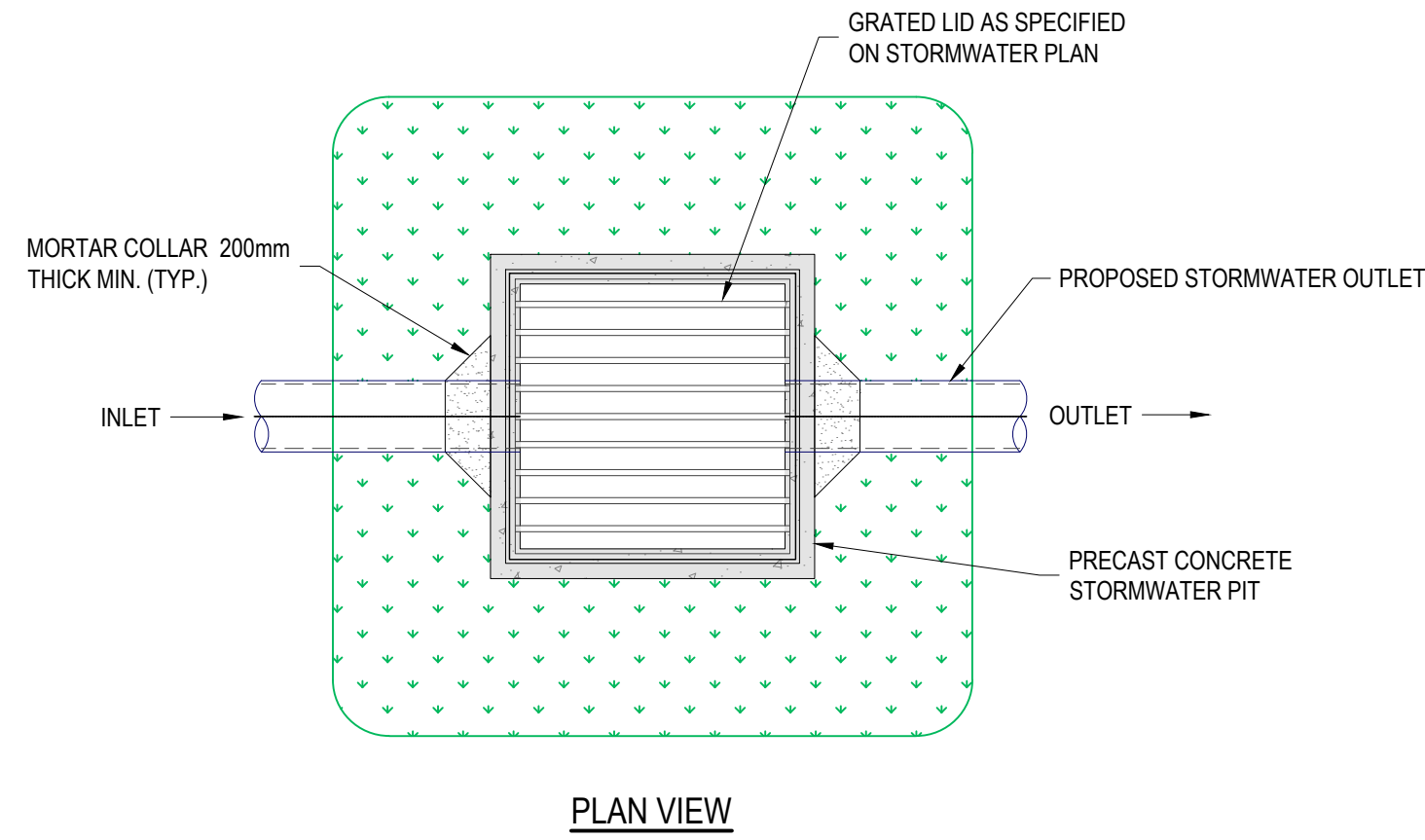
PROJECT:  
CIVIL WORKS for  
LOT 37, DP 237259  
183 AMAROO DRIVE  
SMITHS LAKE NSW 2428

DRAWING TITLE:  
**CIVIL SERVICES**  
DRIVEWAY TYPICAL SECTIONS

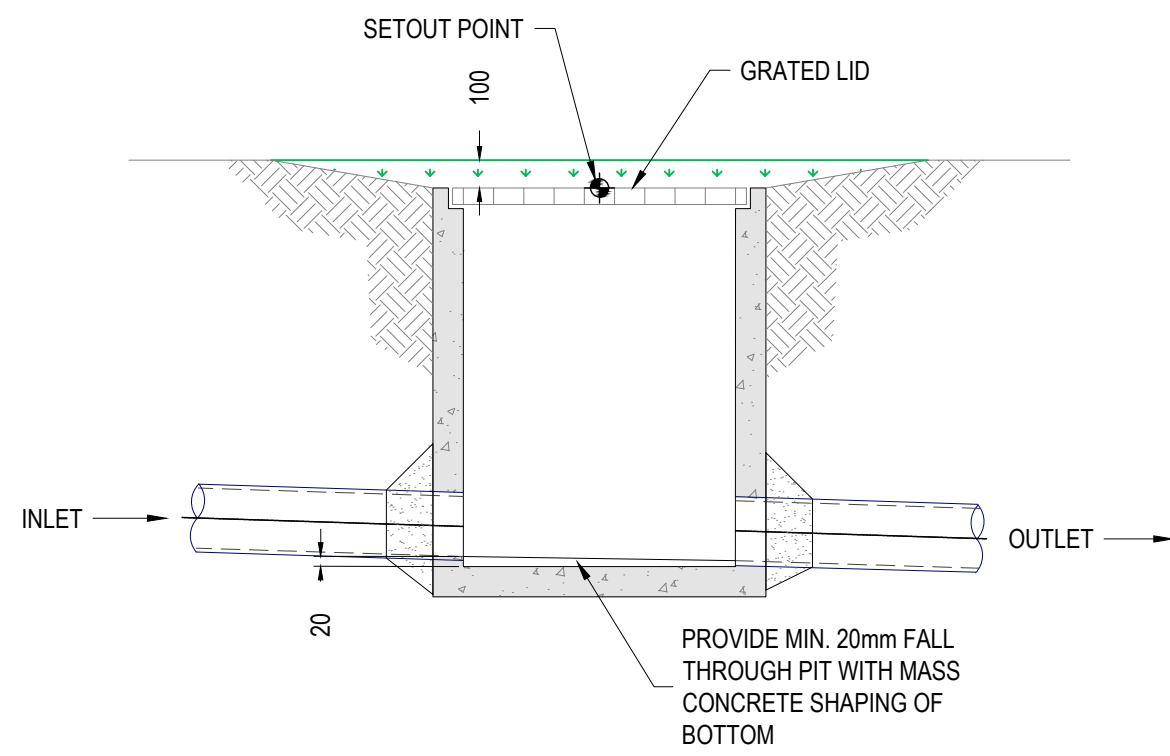
DRAWING STATUS **FOR CONSTRUCTION**

| SCALE: 1:50       |          |                    |          |          | ORIG. SIZE A1 |
|-------------------|----------|--------------------|----------|----------|---------------|
| DRAWN             | DESIGNED | CHECKED            | APPROVED | ENDORSED | DATE          |
| M.S.              | K.B.     | K.B.               | K.B.     | K.B.     | 26.07.23      |
| PROJECT No. 23097 |          | DRAWING No. C05.01 |          |          | REV 2         |

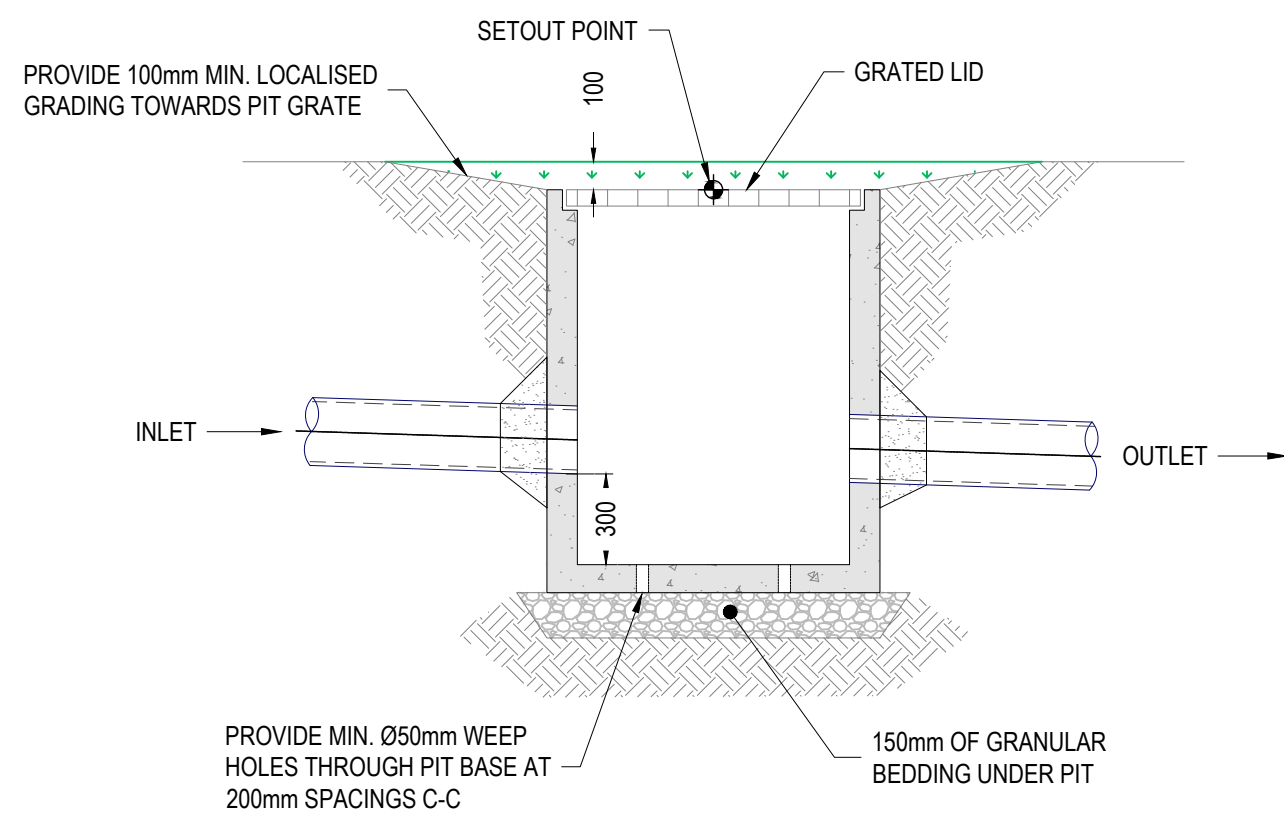




PLAN VIEW



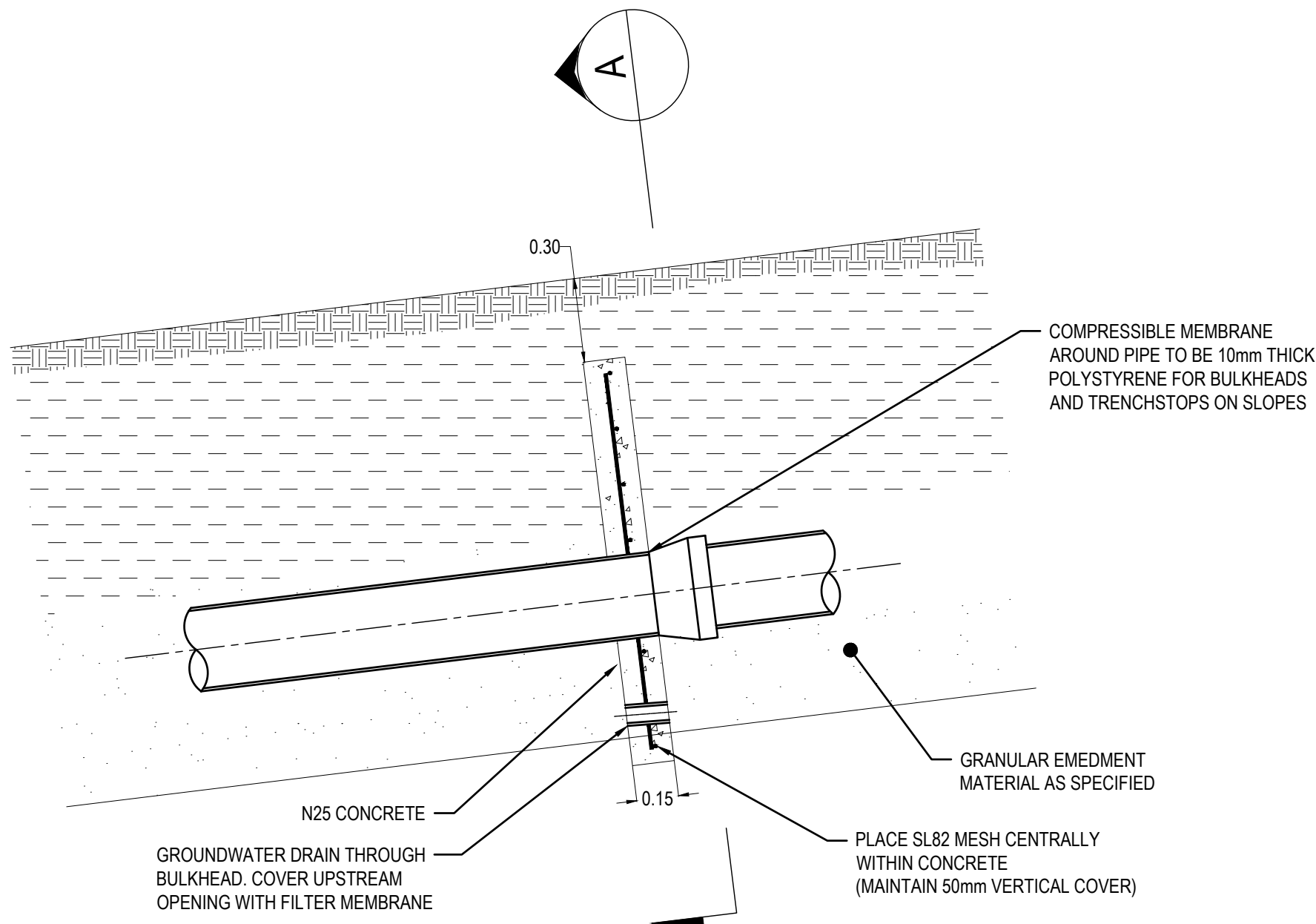
SECTION VIEW



SECTION VIEW WITH 300 SUMP PIT

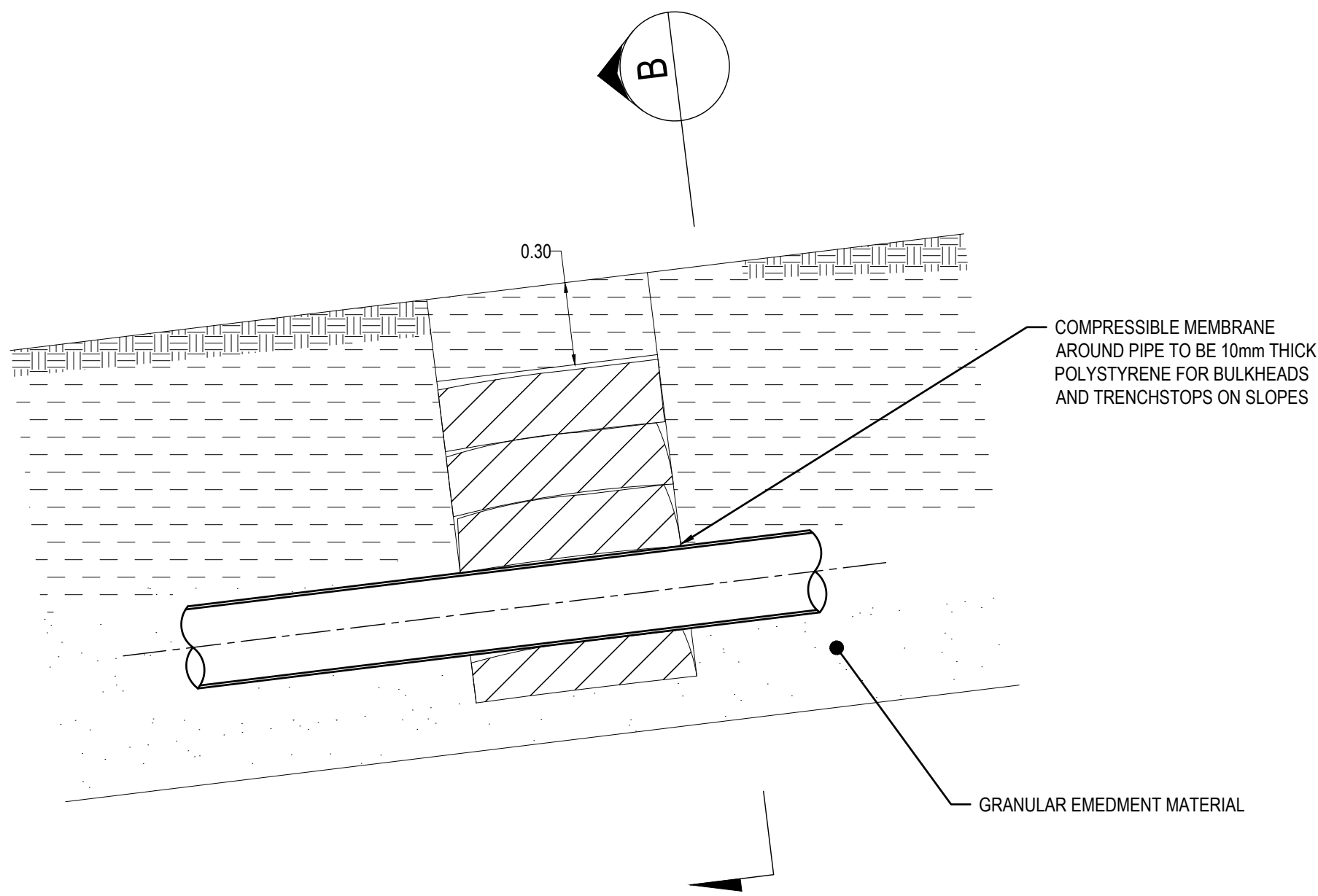
TYPICAL DEPRESSED STORMWATER DRAINAGE PIT IN GRASSED AREAS

1:25



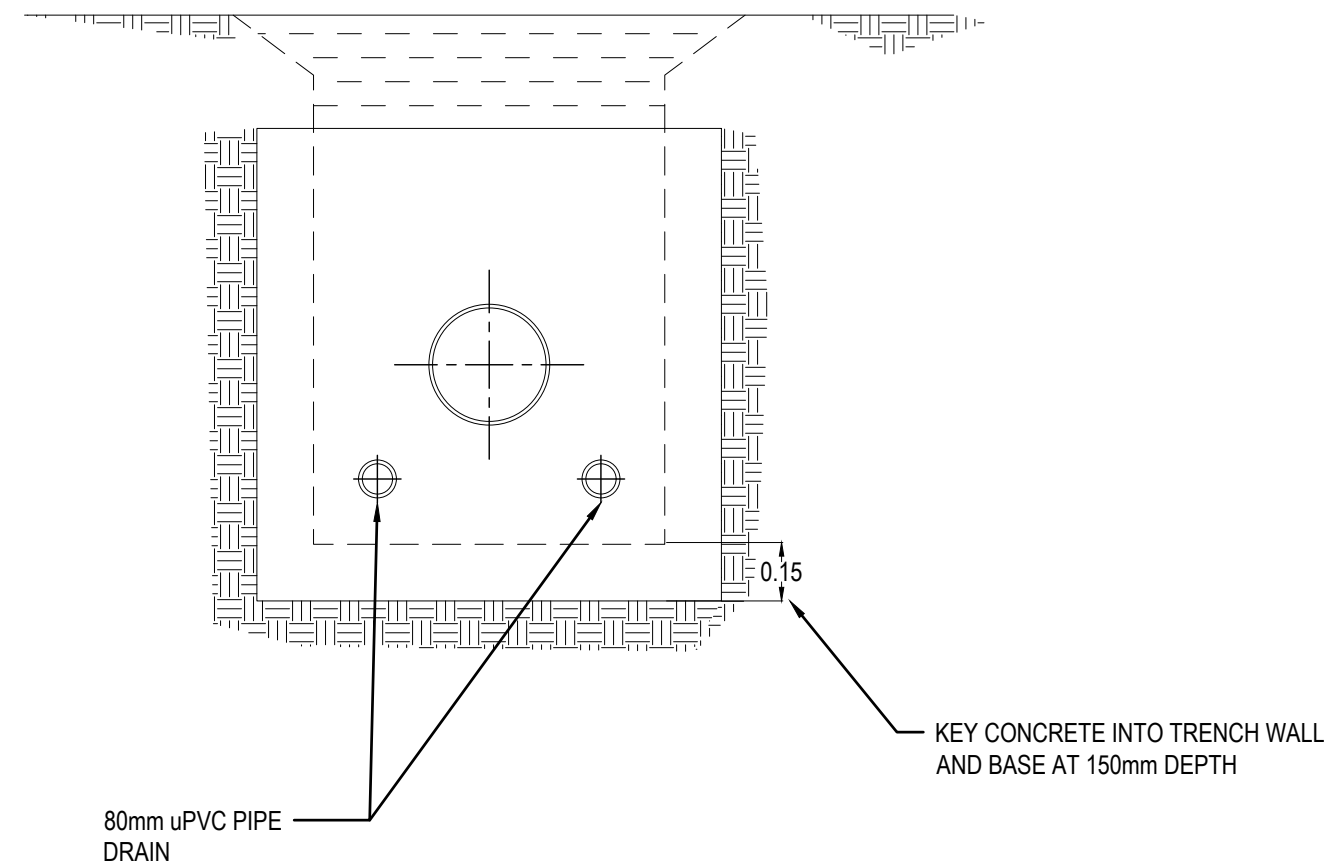
CONCRETE BULKHEAD DETAIL

1:20



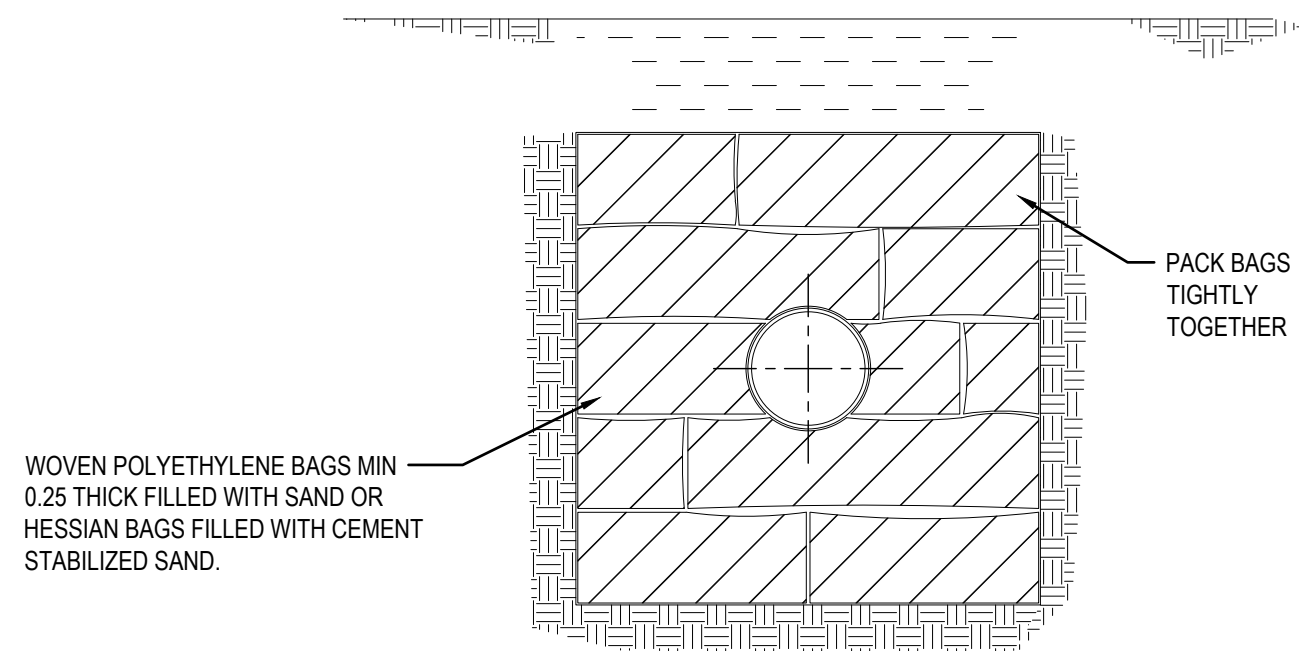
TRENCH STOP DETAIL

1:20



SECTION A

1:20



SECTION B

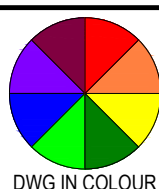
1:20



SCALE METRES 1:25 @ A1

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| REV | DESCRIPTION      | DATE     | APPVD | ENDOD |
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| 2   | FOR CONSTRUCTION | 26.07.23 | K.B.  | K.B.  |
| 1   | FOR CONSTRUCTION | 21.07.23 | K.B.  | K.B.  |

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PROJECT:

CIVIL WORKS for  
LOT 37, DP 237259  
183 AMAROO DRIVE  
SMITHS LAKE NSW 2428

DRAWING TITLE:

**CIVIL SERVICES**  
STORMWATER DETAILS

DRAWING STATUS **FOR CONSTRUCTION**

| SCALE: 1:25 / 1:20 |          |                    |          |          | ORIG. SIZE A1 |
|--------------------|----------|--------------------|----------|----------|---------------|
| DRAWN              | DESIGNED | CHECKED            | APPROVED | ENDORSED | DATE          |
| M.S.               | K.B.     | K.B.               | K.B.     | K.B.     | 26.07.23      |
| PROJECT No. 23097  |          | DRAWING No. C05.02 |          |          | REV 2         |