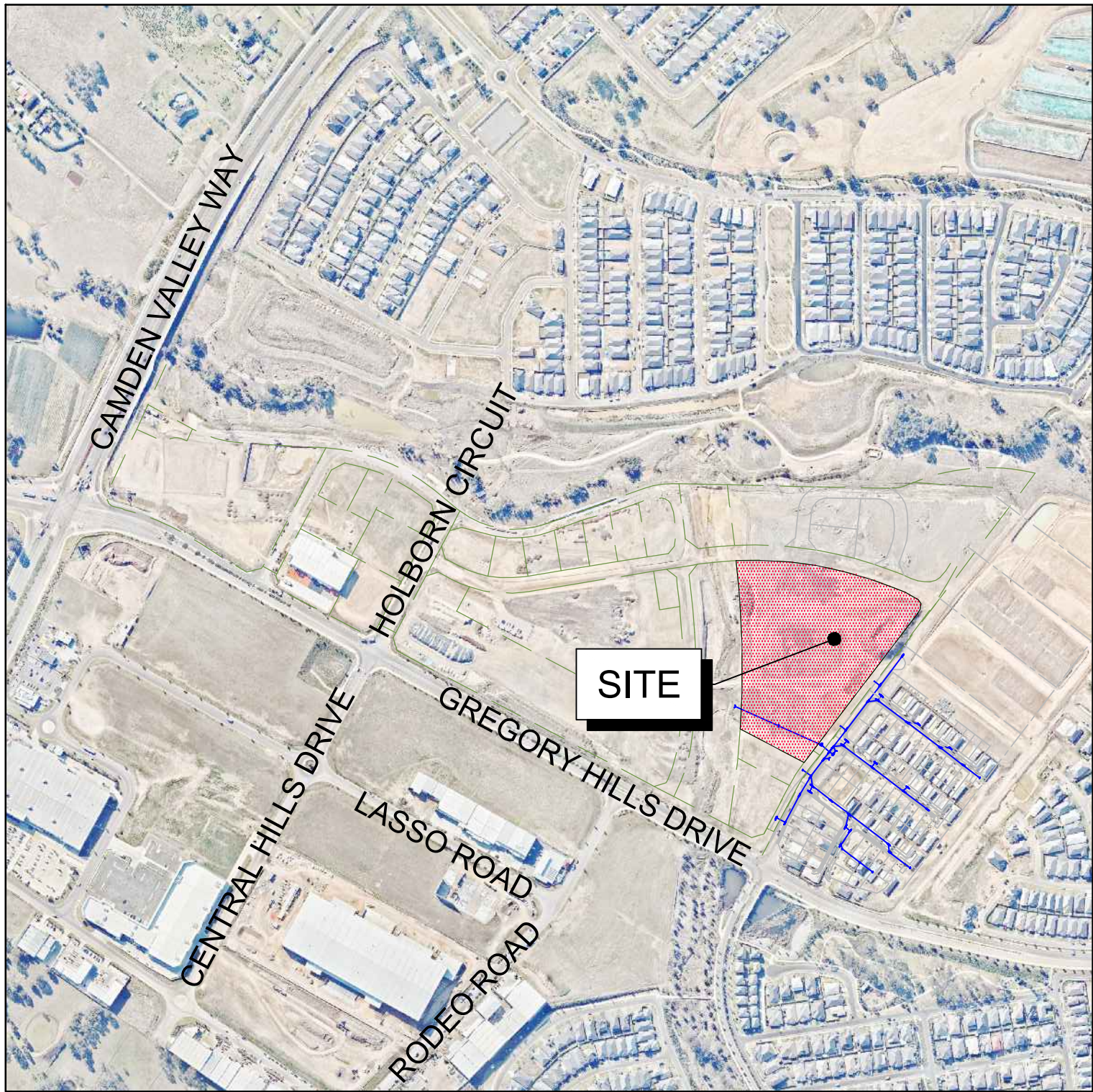




Locality Plan



Gregory Hills  
Development Company  
Pty Ltd

Gregory Hills Corporate Park  
Camden Medical Campus

Sheet List Table

| Sheet Number | Sheet Title                                    |
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Issued for Section 4.55 Modification

MMD-368851-C-DR-CA-0001 P5  
Date: 16.01.2020



| Camden Council General Notes |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| CCGN1                        | All work to be carried out in accordance with Camden Council's Engineering Design and Engineering Construction Specifications and to the requirements of the Certifying Authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |
| CCGN2                        | Inspections by Certifying Authority are required at the following stages and the works approved prior to continuance of any future work:<br><br>(a) Following installation of erosion and sediment control structures/measures.<br><br>(b) Prior to backfilling pipelines, subsoil drains and dams.<br><br>(c) Prior to casting of pits and other concrete structures, including kerb and gutter but following placement of footings, formwork, and reinforcement.<br><br>(d) Prior to placement of sub base and all subsequent pavement layers, a proof roller test of each pavement layer is required.<br><br>(e) Formworks prior to pouring concrete in parking area for footpath crossing and other associated work.<br><br>(f) Prior to backfilling public utility crossings in road reserves.<br><br>(g) Final inspections after all works are completed and 'works as executed' plans have been submitted to Council. |  |  |  |  |
| CCGN3                        | No trees are to be removed unless approval is granted by Council's Landscape Compliance Officer or as authorised by development consent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |
| CCGN4                        | Make smooth junctions with existing works.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |
| CCGN5                        | No work is to be carried out on Council property or adjoining properties without the written permission from the owner/s.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
| CCGN6                        | Vehicular access and all utilities/services are to be maintained at all times to adjoining properties affected by construction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |
| CCGN7                        | All rubbish, buildings, sheds and fences to be removed to satisfaction of Council's Engineer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |
| CCGN8                        | Council Engineers have discretion to vary, as considered necessary, the engineering requirements in respect of a particular subdivision or development having regard to the site context.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |

### Camden Council Earthworks Notes

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CCEN1 | Earthworks are to be carried out to the satisfaction of the Council. Unsuitable materials are to be removed from roads and lots prior to filling. The Contractor is to arrange and make available compaction testing results for all areas that contain fill in excess of 200 mm.                                                                                                                                                                                                                                                  |
| CCEN2 | Compaction of earthworks shall continue until a dry density ratio of 95% for site filling and 100% for road pavement subgrades has been achieved in accordance with test method AS1289.5.3.1 or AS.1289.5.1.1. The control testing of earthworks shall be in accordance with the guidelines in AS3798 'Guidelines on Earthworks for Commercial and Residential Developments'. Where it is proposed to use test method AS1289.5.8.1 to determine the field density, a sand replacement method shall be used to confirm the results. |
| CCEN3 | The suitable qualified Geotechnical Engineer, shall have a level 1 responsibility for all filling as defined in Appendix B AS3798 'Guidelines on Earthworks for Commercial and Residential Developments', and at the end of the works shall confirm the earthworks comply with the requirements of the specification and drawings by written notification.                                                                                                                                                                         |
| CCEN4 | In areas to be filled where the slope of the natural surface exceeds 1(V):4(H), benches are to be cut to prevent slipping of the placed fill material as required by the Council.                                                                                                                                                                                                                                                                                                                                                  |
| CCEN5 | All batters are to be scarified to a depth of 50 mm to assist with adhesion of top soil to batter face.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| CCEN6 | Provide minimum 150 mm and maximum 300 mm topsoil on footpaths, filled areas and all other areas disturbed during construction. Topsoiled areas to be stabilised with approved vegetation a maximum of 14 days after topsoiling and are to be watered to ensure germination.                                                                                                                                                                                                                                                       |
| CCEN7 | The Contractor shall control sedimentation, erosion and pollution during construction in accordance with the requirements of the current edition of 'Managing Urban Stormwater: Soils and Construction' produced by Landcom.                                                                                                                                                                                                                                                                                                       |
| CCEN8 | A minimum 1 metre wide, continuous strip of couch grass shall be placed behind the back of all kerbs and other concrete structures immediately after the completion of the footpath grading or other elements as applicable, and shall be maintained and replaced as required during the construction maintenance period.                                                                                                                                                                                                          |

### Camden Council Stormwater Notes

|        |                                                                                                                                                                                                      |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CCSN1  | All pipes to be spigot and socket, rubber ring jointed.                                                                                                                                              |
| CCSN2  | All longitudinal pipelines in roads must be located under kerb and gutter and be backfilled with approved granular material unless otherwise approved by the Council Engineer.                       |
| CCSN3  | Drainage lines must be backfilled with approved granular material in trafficable areas. Three (3) metres of subsoil drainage wrapped in geotextile stocking must be provided to all downstream pits. |
| CCSN4  | All gully pits to Council's standard and lintels centrally placed at sag pits.                                                                                                                       |
| CCSN5  | All pits must be benched and streamlined. Provide SL72 reinforcement and galvanised step irons in all pits over 1.2-metres deep as measured from the top of grate to the invert of the pit.          |
| CCSN6  | Concrete is to have minimum compressive strength of 32MPa at 28-days unless otherwise approved by the Council Engineer.                                                                              |
| CCSN7  | All interallotment drainage must have a minimum pipe diameter of 150 mm and a minimum grade of 1% unless otherwise approved by the Council Engineer.                                                 |
| CCSN8  | All interallotment drainage lines must be laid centrally within drainage easements. Inspection pits must be provided at all changes of grade and direction.                                          |
| CCSN9  | Interallotment drainage lines must be installed after Sydney Water sewerage lines have been installed where sewer is proposed adjacent to interallotment drainage lines.                             |
| CCSN10 | 1% AEP overland flow paths must be formed and shown on 'works as executed' drawings.                                                                                                                 |
| CCSN11 | All plans (both design and WAE) are to clearly delineate the extent/location of flood lines including the 5% AEP, 1% AEP and PMF.                                                                    |
| CCSN12 | Adequate provision is to be made to prevent scouring and sedimentation for all drainage works in accordance with Council's requirements.                                                             |
| CCSN13 | Pit Lintels are to be stencilled with applicable distinction stencil available from Council.                                                                                                         |
| CCSN14 | Catch drains must be constructed as required by the approved plans or the Principal Certifying Authority.                                                                                            |
| CCSN15 | Soil and Water Management Plans are to be prepared for all disturbed sites and adhered to at all times during the construction and maintenance periods.                                              |

### General Notes

|     |                                                                                                                                            |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------|
| GN1 | All workmanship and materials shall comply with the National Construction Code of Australia and the relevant current Australian Standards. |
| GN2 | Any discrepancies, omissions or errors shall be reported to the Superintendent for clarification before proceeding with the work.          |
| GN3 | Do NOT scale measurements from the drawings.                                                                                               |
| GN4 | Where notes conflict preference shall be given to Camden Council notes                                                                     |

### Siteworks Notes

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SN1  | Datum : Australian Height Datum (AHD)<br>Origin of levels : PM 168901, RL97.81<br>Origin of co-ordinates : Mapping Grid Of Australia (MGA)<br>Survey prepared by : Burton & Field<br>343 Hume Highway, Liverpool 2170<br>Tel: (02) 9602-1199 Fax (02) 9821-2620                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| SN2  | The contractor must verify all dimensions and existing levels on site prior to commencement of work, and report any discrepancies to the superintendent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| SN3  | All existing services (including any not shown on the plans) must be accurately located in position and level prior to any excavation. Any discrepancies shall be reported to the superintendent. minimum service clearances shall be maintained from the relevant service authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SN4  | The contractor shall arrange for all setting out by a registered surveyor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| SN5  | The contractor shall obtain all regulatory authority approvals at their own expense.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SN6  | Where new works abut existing, the contractor must ensure that a smooth and even profile, free from abrupt changes is obtained.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| SN7  | All disturbed areas shall be restored to their original condition, unless specified otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| SN8  | Excavated trenches shall be compacted to the same density as the adjacent natural material. Any subsidence's during the period to be rectified as directed by the superintendent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SN9  | Any existing trees which form part of the final landscaping plan will be protected from construction activities in accordance with the landscape architect's details and / or by -<br><br>Protecting them with barrier fencing or similar materials installed outside the drip line, ensuring that nothing is nailed to them, prohibiting paving, grading, sediment wash or placing of stockpiles within the drip line except under the following conditions -<br>Encroachment only occurs on one side and no closer to the trunk than either 1.5m or half the distance between the outer edge of the drip line and the trunk, which ever is the greater, 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 300mm care is taken not to cut roots unnecessarily nor to compact the soil around them. |
| SN10 | Receptors for concrete and mortar slurries, paints, acid washings, light-weight waste materials and litter are to be emptied as necessary. Disposal of waste shall be in a manner approved by the superintendent or as specified in the works contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

### Existing Services Notes

|     |                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ES1 | Existing services have been plotted from supplied data and as such their accuracy cannot be guaranteed. It is the responsibility of the contractor to establish the location and level of all existing services prior to the commencement of any work. Any discrepancies shall be reported to the superintendent.                                                                                   |
| ES2 | The contractor shall allow for the capping off, excavation and removal if required of all redundant existing services in areas affected by works within the contract area, as shown on the drawings unless directed otherwise by the superintendent.                                                                                                                                                |
| ES3 | The contractor shall ensure that at all times services to all buildings not affected by the works are not disrupted.                                                                                                                                                                                                                                                                                |
| ES4 | If required, the contractor shall construct temporary services to maintain existing supply to buildings remaining in operation during works to the satisfaction and approval of the superintendent. Once diversion is complete and commissioned the contractor shall remove all such temporary services and make good to the satisfaction of the superintendent and the relevant service authority. |
| ES5 | Interruption to supply of existing services shall be done so as not to cause any inconvenience to the principal. The contractor is to gain approval from the superintendent for time of interruption - the contractor is responsible for all liaison.                                                                                                                                               |
| ES6 | All branch gas and water services under driveways and brick paving shall be located in Ø80mm uPVC sewer grade conduits extending a minimum of 500mm beyond the edge of paving.                                                                                                                                                                                                                      |
| ES7 | Clearance and cover requirements shall be obtained from the relevant service authority before commencement of works and shall be adhered to at all times.                                                                                                                                                                                                                                           |
| ES8 | Care is to be taken when excavating near existing services. No mechanical excavations are to be undertaken over telecom or electrical services. Hand excavate in these areas only.                                                                                                                                                                                                                  |

### Earthworks Notes

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |                      |                      |     |                       |      |                           |     |                  |     |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------|----------------------|-----|-----------------------|------|---------------------------|-----|------------------|-----|
| EW1                       | All work shall comply with AS3798 (2007) - Guidelines on earthworks for commercial and residential developments.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                      |                      |     |                       |      |                           |     |                  |     |
| EW2                       | All work shall comply with the project geotechnical report                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                      |                      |     |                       |      |                           |     |                  |     |
| EW3                       | Strip topsoil to expose naturally occurring engineering material and stockpile on site for reuse as directed by the superintendent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |                      |                      |     |                       |      |                           |     |                  |     |
| EW4                       | All soft, wet or unsuitable material to be removed as directed by the superintendent and replaced with approved fill material.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |                      |                      |     |                       |      |                           |     |                  |     |
| EW5                       | All fill material shall be from a source approved by the superintendent and shall comply with the following -<br>a) free from organic and perishable matter,<br>b) maximum particle size 75mm,<br>c) plasticity index - between 2% and 15%.                                                                                                                                                                                                                                                                                                                                                             |          |                      |                      |     |                       |      |                           |     |                  |     |
| EW6                       | All fill material shall be placed in maximum 200mm thick layers and compacted at optimum moisture content (+ or - 2%) to achieve a dry density determined in accordance with AS1289.5.1.1 - 2003 - methods of testing soils for engineering purposes of not less than the following standard minimum dry density -<br><table><tr><td>location</td><td>standard dry density</td></tr><tr><td>under building slabs</td><td>98%</td></tr><tr><td>vehicular paved areas</td><td>100%</td></tr><tr><td>non-vehicular paved areas</td><td>98%</td></tr><tr><td>landscaped areas</td><td>95%</td></tr></table> | location | standard dry density | under building slabs | 98% | vehicular paved areas | 100% | non-vehicular paved areas | 98% | landscaped areas | 95% |
| location                  | standard dry density                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |                      |                      |     |                       |      |                           |     |                  |     |
| under building slabs      | 98%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |                      |                      |     |                       |      |                           |     |                  |     |
| vehicular paved areas     | 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |                      |                      |     |                       |      |                           |     |                  |     |
| non-vehicular paved areas | 98%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |                      |                      |     |                       |      |                           |     |                  |     |
| landscaped areas          | 95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |                      |                      |     |                       |      |                           |     |                  |     |
| EW7                       | The contractor shall program the earthworks operation so that the working areas are adequately drained during the period of construction. The surface shall be graded and sealed off to remove depressions, roller marks and similar which would allow water to pond and penetrate the underlying material, any damage resulting from the contractor not observing these requirements shall be rectified by the contractor at their own expense.                                                                                                                                                        |          |                      |                      |     |                       |      |                           |     |                  |     |
| EW8                       | Testing of the fill material shall be carried out by an approved NATA registered laboratory at the contractors expense.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |                      |                      |     |                       |      |                           |     |                  |     |
| EW9                       | Where the subgrade is unable to support construction equipment, or it is not possible to compact overlying pavement layers, only because of the subgrade moisture content, then the contractor shall condition or replace the material at the contractors discretion and expense.                                                                                                                                                                                                                                                                                                                       |          |                      |                      |     |                       |      |                           |     |                  |     |
| EW10                      | Earthworks calculations are volumetric only and do not allow for bulking of excavated material. It is the contractors responsibility to make allowances for these items as part of the tender / works.                                                                                                                                                                                                                                                                                                                                                                                                  |          |                      |                      |     |                       |      |                           |     |                  |     |
| EW11                      | No allowance has been made for footings or foundations, retaining walls or trenching. It is the contractors responsibility to make allowances for these items as part of the tender / works.                                                                                                                                                                                                                                                                                                                                                                                                            |          |                      |                      |     |                       |      |                           |     |                  |     |

### Stormwater Notes

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SW1  | For commercial or industrial sites -<br><br>All Ø300mm to Ø600mm drainage pipes shall be class 4 approved spigot and socket reinforced concrete pipes with rubber ring joints (UNO). All Ø675mm or larger drainage pipes shall be class 3 approved spigot and socket reinforced concrete pipes with rubber ring joints (UNO).<br><br>All drainage pipes less than or equal to Ø225mm shall be uPVC DWV grade class SN8 in accordance with AS/NZS 1260 : 2009 - PVC-u pipes and fittings for drain, waste and vent application with solvent welded joints. |
| SW2  | Equivalent strength fibrous reinforced concrete (F.R.C.) may be used subject to approval by the superintendent.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SW3  | All pipe junctions up to and including Ø450mm and tapers, shall be via purpose made fittings (UNO).                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| SW4  | Minimum grade to stormwater lines to be 1% (UNO).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| SW5  | Contractor to supply and install all fittings and specials including various pipe adaptors to ensure proper connection between dissimilar pipework.                                                                                                                                                                                                                                                                                                                                                                                                       |
| SW6  | All connections to existing drainage pits shall be made in a tradesman-like manner and the internal wall of the pit at the point of entry shall be cement rendered to ensure a smooth finish with no protrusions.                                                                                                                                                                                                                                                                                                                                         |
| SW7  | All in-situ concrete pits to be 32Mpa minimum at 28 days.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| SW8  | Pits and pipes in areas of salinity hazard shall have increased cover to any reinforcement.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SW9  | Pits deeper than 1000mm shall have step irons installed in accordance with the local or statutory authority requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| SW10 | Bedding shall be type H2 (UNO) for pipes not under pavements, and type HS2 for pipes under pavements in accordance with AS/NZS 3725 : 2007 - design for installation of buried concrete pipes.                                                                                                                                                                                                                                                                                                                                                            |
| SW11 | Backfill trench with sand or approved granular backfill to 300mm (min) above the pipe. Where the pipe is under pavements backfill remainder of trench to pavement subgrade with sand or approved gravel sub-base compacted in 150mm layers to 98% standard maximum dry density. The contractor is to ensure compaction equipment is appropriate for the pipe class used.                                                                                                                                                                                  |
| SW12 | Where stormwater lines pass under floor slabs DWV grade uPVC rubber ring joints are to be used (UNO).                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| SW13 | Where subsoil drainage lines pass under floor slabs and vehicular pavements, unslotted uPVC DWV grade class SN8 pipe shall be used.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| SW14 | Provide 3m length of Ø100mm subsoil drainage line or 200 'Nylux' strip drain surrounded with 150mm of 20mm blue metal or gravel, and wrapped in 'Bidum' A24 geotextile filter fabric or approved equivalent, at invert of incoming upstream pipe on each pit.                                                                                                                                                                                                                                                                                             |

### Asphaltic Concrete Notes

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                       |        |               |         |     |         |     |     |     |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------|--------|---------------|---------|-----|---------|-----|-----|-----|
| <u>General</u>                      |                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                       |        |               |         |     |         |     |     |     |
| AC1                                 | Asphaltic concrete mix design, manufacture, placing and compaction shall be in accordance with RMS Specification R116-Asphalt (dense graded and open graded) and AS2150-2005 - Hot Mix Asphalt - A Guide To Good Practice. Annexure R116/1 to be completed by subcontractor and submitted for approval by superintendent 7 days prior to AC works.                                                |                                 |                       |        |               |         |     |         |     |     |     |
| AC2                                 | Mineral filler to comply with AS2150 - 2005 - Hot Mix Asphalt - A Guide to Good Practice.                                                                                                                                                                                                                                                                                                         |                                 |                       |        |               |         |     |         |     |     |     |
| <u>Mix proportions</u>              |                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                       |        |               |         |     |         |     |     |     |
| AC3                                 | Job mix - 7mm nominal size aggregate. Minimum bitumen content (%) by (mass of total mass) - 5.1%.                                                                                                                                                                                                                                                                                                 |                                 |                       |        |               |         |     |         |     |     |     |
| AC4                                 | Mix stability - between 16kN and 36kN as determined by RMS test method T601 - Compaction of test specimens of dense grade bituminous mixtures and T603 - Stability of dense grade bituminous mixtures.                                                                                                                                                                                            |                                 |                       |        |               |         |     |         |     |     |     |
| AC5                                 | Air voids in compacted mix - between 4% of volume and 7% of the mix. Voids filled in binder. 65-80% of air voids in the total mineral aggregate filled by binder in accordance with RMS test method T601 - Compaction of test specimens of dense grade bituminous mixtures, T605 - Maximum density of bituminous plant mix and T606 - Bulk density of compacted dense graded bituminous mixtures. |                                 |                       |        |               |         |     |         |     |     |     |
| <u>Pavement preparation</u>         |                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                       |        |               |         |     |         |     |     |     |
| AC6                                 | The existing surface to be sealed, shall be dry and broomed before commencement of work to ensure complete removal of all superficial foreign and loose matter.                                                                                                                                                                                                                                   |                                 |                       |        |               |         |     |         |     |     |     |
| AC7                                 | All depressions or uneven areas are to be tack-coated and brought up to general level of pavement with asphaltic concrete before laying of main course.                                                                                                                                                                                                                                           |                                 |                       |        |               |         |     |         |     |     |     |
| <u>Tack coat</u>                    |                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                       |        |               |         |     |         |     |     |     |
| AC8                                 | The whole of the area to be sheeted with asphaltic concrete shall be lightly and evenly coated with rapid setting bitumen. Application rate for residual bitumen shall be 0.15 to 0.30 litres/square metre. Application shall be by means of a mechanical sprayer with spray bar.                                                                                                                 |                                 |                       |        |               |         |     |         |     |     |     |
| <u>Spreading</u>                    |                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                       |        |               |         |     |         |     |     |     |
| AC9                                 | All asphaltic concrete shall be spread with a self propelled paving machine.                                                                                                                                                                                                                                                                                                                      |                                 |                       |        |               |         |     |         |     |     |     |
| AC10                                | The asphaltic concrete shall be laid at a mix temperature as shown below -                                                                                                                                                                                                                                                                                                                        |                                 |                       |        |               |         |     |         |     |     |     |
|                                     | <table><tr><td>road surface temp in shade (°c)</td><td>mix temperatures (°c)</td></tr><tr><td>5 - 10</td><td>not permitted</td></tr><tr><td>10 - 15</td><td>150</td></tr><tr><td>15 - 25</td><td>145</td></tr><tr><td>25+</td><td>140</td></tr></table>                                                                                                                                           | road surface temp in shade (°c) | mix temperatures (°c) | 5 - 10 | not permitted | 10 - 15 | 150 | 15 - 25 | 145 | 25+ | 140 |
| road surface temp in shade (°c)     | mix temperatures (°c)                                                                                                                                                                                                                                                                                                                                                                             |                                 |                       |        |               |         |     |         |     |     |     |
| 5 - 10                              | not permitted                                                                                                                                                                                                                                                                                                                                                                                     |                                 |                       |        |               |         |     |         |     |     |     |
| 10 - 15                             | 150                                                                                                                                                                                                                                                                                                                                                                                               |                                 |                       |        |               |         |     |         |     |     |     |
| 15 - 25                             | 145                                                                                                                                                                                                                                                                                                                                                                                               |                                 |                       |        |               |         |     |         |     |     |     |
| 25+                                 | 140                                                                                                                                                                                                                                                                                                                                                                                               |                                 |                       |        |               |         |     |         |     |     |     |
| AC11                                | Asphaltic concrete shall not be laid when the road surface is wet or when cold winds chill the mix to adversely affect temperature of mix during spreading and compaction operations.                                                                                                                                                                                                             |                                 |                       |        |               |         |     |         |     |     |     |
| AC12                                | The minimum compacted thickness is 50mm in two (2) layers.                                                                                                                                                                                                                                                                                                                                        |                                 |                       |        |               |         |     |         |     |     |     |
| <u>Joins</u>                        |                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                       |        |               |         |     |         |     |     |     |
| AC13                                | The number of joints both longitudinal and transverse shall be kept to a minimum.                                                                                                                                                                                                                                                                                                                 |                                 |                       |        |               |         |     |         |     |     |     |
| AC14                                | The density and surface finish at joints shall be similar to those of the remainder of the layer.                                                                                                                                                                                                                                                                                                 |                                 |                       |        |               |         |     |         |     |     |     |
| <u>Compaction</u>                   |                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                       |        |               |         |     |         |     |     |     |
| AC15                                | All compaction shall be undertaken using self propelled rollers.                                                                                                                                                                                                                                                                                                                                  |                                 |                       |        |               |         |     |         |     |     |     |
| AC16                                | Initial rolling shall be completed before the mix temperature falls below 105°c.                                                                                                                                                                                                                                                                                                                  |                                 |                       |        |               |         |     |         |     |     |     |
| AC17                                | Secondary rolling shall be completed before the mix temperature falls below 60°c.                                                                                                                                                                                                                                                                                                                 |                                 |                       |        |               |         |     |         |     |     |     |
| AC18                                | Minimum characteristic value of relative compaction of a lot when tested in accordance with AS2150 - 2005 - Hot mix asphalt - a guide to good practice shall be 95%.                                                                                                                                                                                                                              |                                 |                       |        |               |         |     |         |     |     |     |
| <u>Finished pavement properties</u> |                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                       |        |               |         |     |         |     |     |     |
| AC19                                | Finished surfaces shall be smooth, dense and true to shape and shall not vary more than 10mm from the specified plan level at any point and shall not deviate from the bottom of a 3m straight edge laid in any direction by more than 5mm.                                                                                                                                                       |                                 |                       |        |               |         |     |         |     |     |     |

|     |          |       |                                        |        |       |
|-----|----------|-------|----------------------------------------|--------|-------|
|     |          |       |                                        |        |       |
| P5  | 16.01.20 | GAP   | Issued for Section 4.55 Modification   | AS     | JW    |
| P4  | 13.05.16 | AMP   | Issued for Approval - Minor Amendments | SR     | CJA   |
| P3  | 11.05.16 | AMP   | Issued for Approval - Minor Amendments | SR     | CJA   |
| P2  | 06.05.16 | AMP   | Issued for Approval                    | SR     | CJA   |
| P1  | 22.04.16 | AMP   | Issued Client Review                   | SR     | X     |
| Rev | Date     | Drawn | Description                            | Ch'k'd | App'd |



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Sydney, NSW 2000  
Australia  
PO Box Q1678  
QVB Sydney NSW 1230  
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Client  
**Gregory Hills  
Development Company  
Pty Ltd**

Title  
**Gregory Hills Corporate Park  
Camden Medical Campus  
Civil Works  
Notes Sheet**

|                            |            |          |              |           |          |
|----------------------------|------------|----------|--------------|-----------|----------|
| Designed                   | K Luo      | 16.01.20 | Eng check    | J Wukowic | 16.01.20 |
| Drawn                      | GA Paciben | 16.01.20 | Coordination | K Luo     | 16.01.20 |
| Dwg check                  | A Singh    | 16.01.20 | Approved     | J Wukowic | 16.01.20 |
| Scale at A1                | Status     | Rev      | Sec          |           |          |
| PRE                        |            | P5       |              | STD       |          |
| Drawing Number             |            |          |              |           |          |
| MMD-368851-C-DR-CA-DA-0103 |            |          |              |           |          |

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# Survey Legend

|  |                                                                |
|--|----------------------------------------------------------------|
|  | Existing boundary, bearing and distance                        |
|  | Existing road name                                             |
|  | Existing building                                              |
|  | Existing kerb and spot levels                                  |
|  | Existing block wall                                            |
|  | Existing fence                                                 |
|  | Existing spot level                                            |
|  | Existing earth batter                                          |
|  | Existing tree, level, trunk diameter, height and spread        |
|  | Existing electricity (underground)                             |
|  | Existing electricity (overhead)                                |
|  | Existing gas                                                   |
|  | Existing sewer                                                 |
|  | Existing stormwater drainage                                   |
|  | Existing Subsoil                                               |
|  | Existing water                                                 |
|  | Existing telecommunications (underground)                      |
|  | Existing electricity pit, pole, pole with light and light pole |
|  | Existing gas valve                                             |
|  | Existing sewer pit and maintenance hole                        |
|  | Existing stormwater grate, maintenance hole and pit            |
|  | Existing water hydrant, stop valve and valve                   |
|  | Existing telecommunications pit and pillar                     |
|  | Existing maintenance hole (unspecified)                        |
|  | Existing pole (unspecified)                                    |
|  | Existing pit (unspecified)                                     |
|  | Existing traffic signal                                        |

| Civil Grading Legend                                                                |                                     |
|-------------------------------------------------------------------------------------|-------------------------------------|
|                                                                                     | Construct surface to level..        |
| ● Ex10.00                                                                           | Existing level                      |
| ● G10.00                                                                            | Grate level                         |
| ● IL10.00                                                                           | Invert level                        |
| ● P10.00                                                                            | Proposed level                      |
| XX % Fall                                                                           | Construct finished surface to grade |
|  | Construct batter slope              |

### Flood Extents Legend

|                                                                                     |                        |
|-------------------------------------------------------------------------------------|------------------------|
|  | 100 Year flood extents |
|  | PMF flood extents      |

# Stormwater Drainage Legend

Stormwater drainage structure / pit number  
Refer to pit schedule

Surface inlet pit

Junction pit

Stormwater drainage line  
Upstream invert level  
Pipe size / class  
Grade  
Length  
Flow  
Downstream invert level

Stormwater drainage line with headwall

Concrete encased drainage line

Grated drain

Downpipe connection

Stormwater Rising Main

Catch drain

Construct Onsite Detention Tank

## Pavement Legend

|                                                                                     |                            |
|-------------------------------------------------------------------------------------|----------------------------|
|    | Proposed Road Pavement     |
|    | Proposed Footpath Pavement |
|  | Proposed Landscaping       |
|  | Proposed Roof Area         |

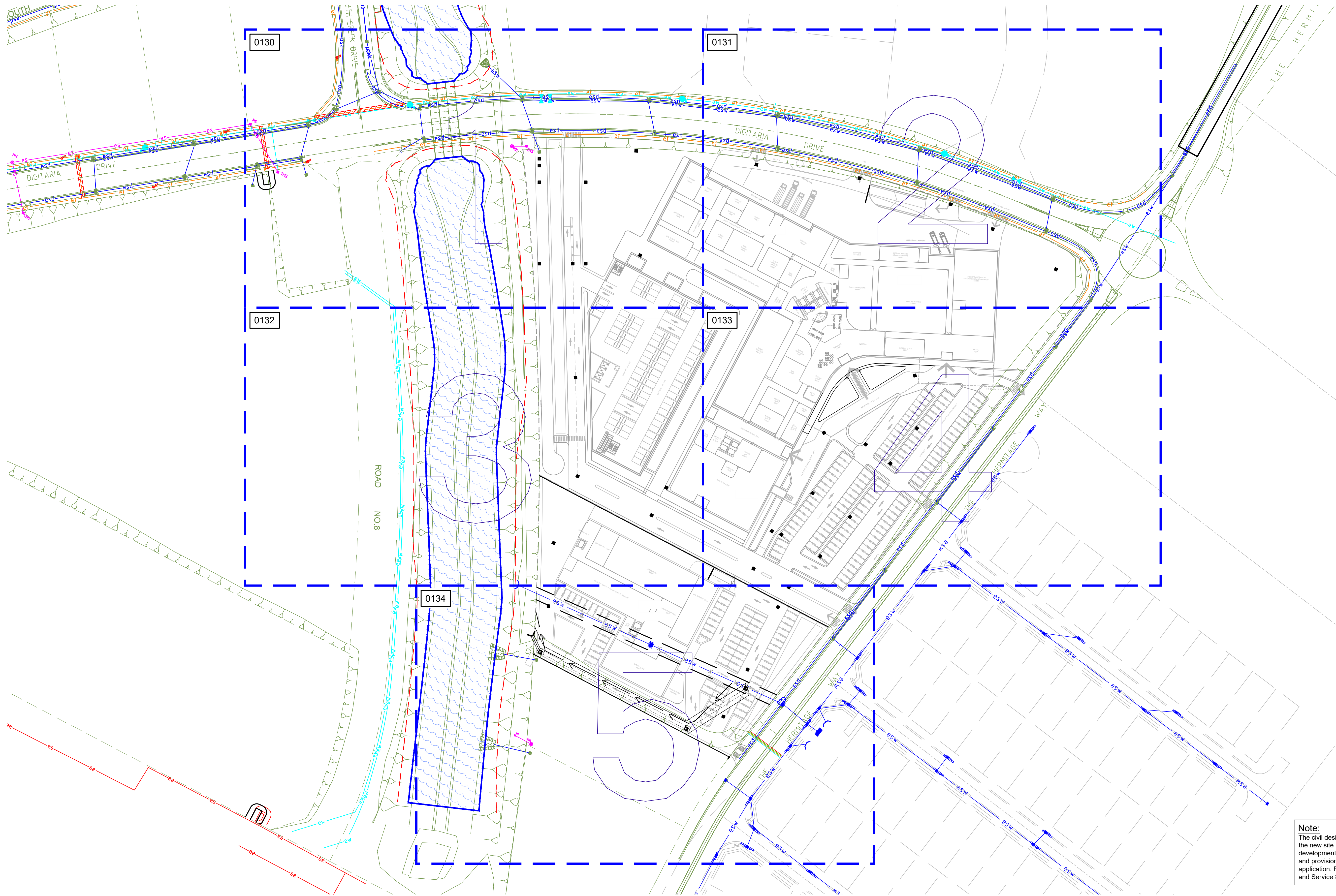
| Number | Key Design Elements Impacted                          | Comments                                                                                                                                                                                                                                                                       |
|--------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | External car park drainage and levels amended         | Car parking layout and location updated to suit new building footprint, changes to levels and drainage to accommodate                                                                                                                                                          |
| 2      | Line B drainage system extended                       | Changes to accommodate revised external layout                                                                                                                                                                                                                                 |
| 3      | Line N drainage system extended                       | Required to drain new low point                                                                                                                                                                                                                                                |
| 4      | Line E drainage system extended                       | Changes to accommodate revised external layout of car park                                                                                                                                                                                                                     |
| 5      | Line C drainage system extended                       | Changes to accommodate revised external layout of car park                                                                                                                                                                                                                     |
| 6      | Line D drainage system extended                       | Changes to accommodate revised external layout of car park                                                                                                                                                                                                                     |
| 7      | Line F drainage system extended                       | Changes to accommodate revised external layout of car park                                                                                                                                                                                                                     |
| 8      | Driveway locations updated                            | Driveway crossings on the eastern side of the site have been updated to correspond with new architectural scheme                                                                                                                                                               |
| 9      | Retaining wall added to southern boundary of the site | Due to the basement carpark extents under the research building and head clearance requirements, the design levels along the southern side of the research building have been lifted and a retaining wall is required to make up the level difference against the adjacent lot |

|     |          |       |                                        |        |       |
|-----|----------|-------|----------------------------------------|--------|-------|
| P6  | 21.01.20 | GAP   | Issued for Section 4.55 Modification   | AS     | JW    |
| P5  | 16.01.20 | GAP   | Issued for Section 4.55 Modification   | AS     | JW    |
| P4  | 13.05.16 | AMP   | Issued for Approval - Minor Amendments | SR     | CJA   |
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| P2  | 06.05.16 | AMP   | Issued for Approval                    | SR     | CJA   |
| P1  | 22.04.16 | AMP   | Issued Client Review                   | SR     | X     |
| Rev | Date     | Drawn | Description                            | Ch'k'd | App'd |

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|----------------------------|------------|----------|--------------|-----------|----------|
| Designed                   | K Luo      | 21.01.20 | Eng check    | J Wukowic | 21.01.20 |
| Drawn                      | GA Paciben | 21.01.20 | Coordination | K Luo     | 21.01.20 |
| Dwg check                  | A Singh    | 21.01.20 | Approved     | J Wukowic | 21.01.20 |
| Scale at A1                | Status     | PRE      | Rev          | P6        | Sec      |
| Drawing Number             |            |          |              |           |          |
| MMD-368851-C-DR-CA-DA-0104 |            |          |              |           |          |

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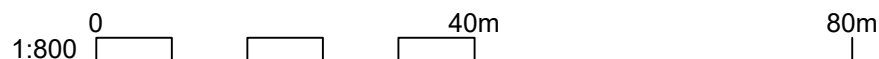


**Note:**  
The civil design has been adjusted to accommodate the new site layout, however the design ethos for the development (including stormwater treatment train and provision of OSD) is consistent with the previous application. Refer to the Stormwater Management and Service Strategy (Revision E) for further details.

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| P4  | 13.05.16 | AMP   | Issued for Approval - Minor Amendments | SR     | CJA   |
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| P2  | 06.05.16 | AMP   | Issued for Approval                    | SR     | CJA   |
| P1  | 22.04.16 | AMP   | Issued Client Review                   | SR     | X     |



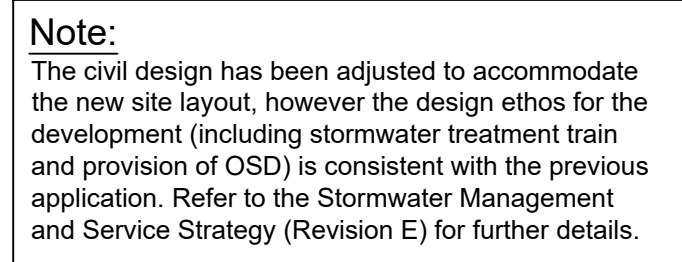
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Sydney, NSW 2000  
Australia  
PO Box Q1678  
QVB Sydney NSW 1230  
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Client  
Gregory Hills  
Development Company  
Pty Ltd

Title  
Gregory Hills Corporate Park  
Camden Medical Campus  
Civil Works  
General Arrangement

|             |            |                |                            |           |          |
|-------------|------------|----------------|----------------------------|-----------|----------|
| Designed    | K Luo      | 16.01.20       | Eng check                  | J Wukowic | 16.01.20 |
| Drawn       | GA Paciben | 16.01.20       | Coordination               | K Luo     | 16.01.20 |
| Dwg check   | A Singh    | 16.01.20       | Approved                   | J Wukowic | 16.01.20 |
| Scale at A1 | 1:800      | Status         | PRE                        | Rev       | P5       |
| Sec         | STD        | Drawing Number | MMD-368851-C-DR-CA-DA-0105 |           |          |

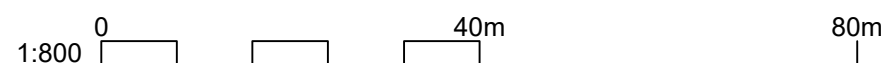




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|--------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| 5      | Line C drainage system extended                       | Changes to accommodate revised external layout of car park                                                                                                                                                                                                                     |
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| 8      | Driveway locations updated                            | Driveway crossings on the eastern side of the site have been updated to correspond with new architectural scheme                                                                                                                                                               |
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|     |          |       |                                      |        |       |
|     |          |       |                                      |        |       |
|     |          |       |                                      |        |       |
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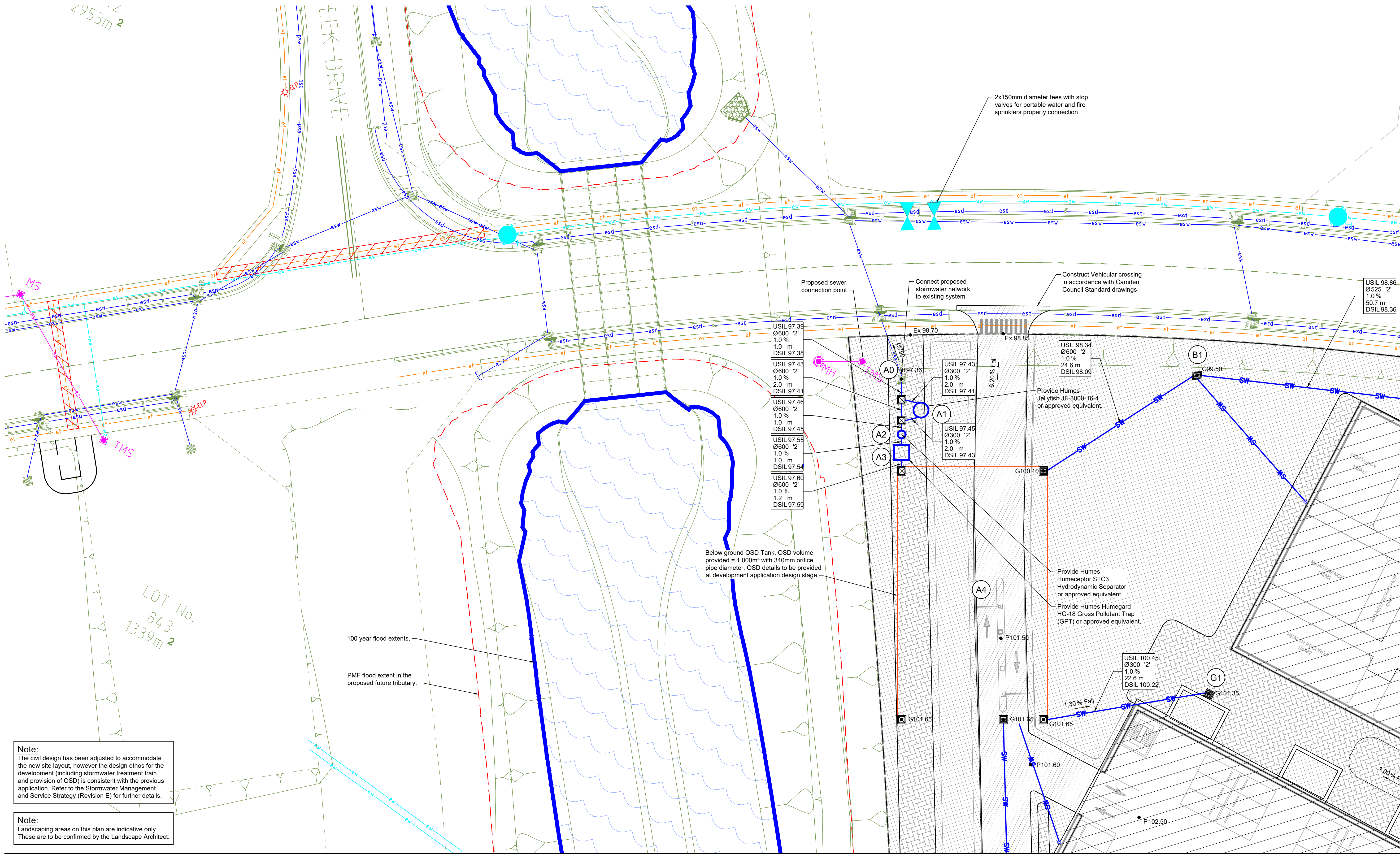
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Client Gregory Hills  
Development Company  
Pty Ltd

| Title                        |
|------------------------------|
| Gregory Hills Corporate Park |
| SOMA Private Hospital        |
| Civil Works                  |
| Key Design Changes           |
| Overall Plan                 |

|                            |            |          |              |           |          |
|----------------------------|------------|----------|--------------|-----------|----------|
| Designed                   | K Luo      | 23.01.20 | Eng check    | J Wukowic | 23.01.20 |
| Drawn                      | GA Paciben | 23.01.20 | Coordination | K Luo     | 23.01.20 |
| Dwg check                  | A Singh    | 23.01.20 | Approved     | J Wukowic | 23.01.20 |
| Scale at A1                | Status     | Rev      | Sec          |           |          |
| 1:800                      | PRE        | P1       | STD          |           |          |
| Drawing Number             |            |          |              |           |          |
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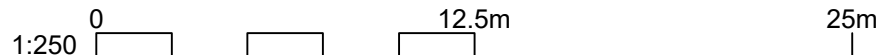
**Note:**  
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**Note:**  
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| P5  | 10.01.20 | KL    | Issued for Coordination                | KL     | JW    |
| P4  | 13.05.16 | AMP   | Issued for Approval - Minor Amendments | SR     | CJA   |
| P3  | 11.05.16 | AMP   | Issued for Approval - Minor Amendments | SR     | CJA   |
| P2  | 06.05.16 | AMP   | Issued for Approval                    | SR     | CJA   |
| P1  | 22.04.16 | AMP   | Issued Client Review                   | SR     | X     |
| Rev | Date     | Drawn | Description                            | Ch'k'd | App'd |



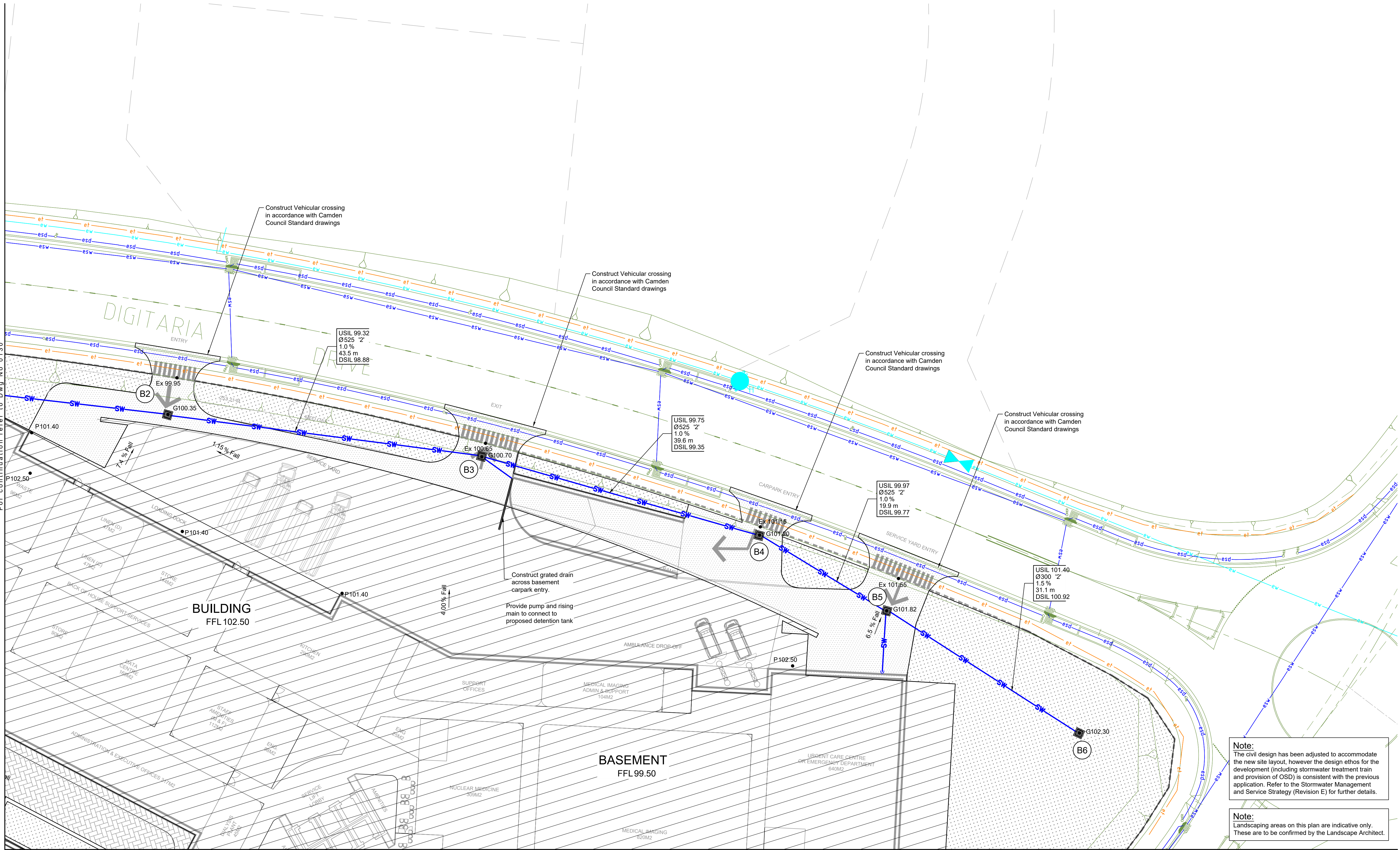
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Client  
**Gregory Hills Development Company Pty Ltd**

Title  
**Gregory Hills Corporate Park  
Camden Medical Campus  
Civil Works  
Siteworks and Stormwater  
Drainage Plan Sheet 1**

|                |                            |          |              |           |          |
|----------------|----------------------------|----------|--------------|-----------|----------|
| Designed       | K Luo                      | 16.01.20 | Eng check    | J Wukowic | 16.01.20 |
| Drawn          | GA Paciben                 | 16.01.20 | Coordination | K Luo     | 16.01.20 |
| Dwg check      | A Singh                    | 16.01.20 | Approved     | J Wukowic | 16.01.20 |
| Scale at A1    | 1:250                      | Status   | PRE          | Rev       | P6       |
| Drawing Number | MMD-368851-C-DR-CA-DA-0130 | Sec      | STD          |           |          |



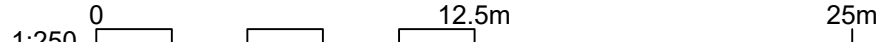


**Note:**  
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| P5  | 10.01.20 | KL    | Issued for Coordination                | KL     | JW    |
| P4  | 13.05.16 | AMP   | Issued for Approval - Minor Amendments | SR     | CJA   |
| P3  | 11.05.16 | AMP   | Issued for Approval - Minor Amendments | SR     | CJA   |
| P2  | 06.05.16 | AMP   | Issued for Approval                    | SR     | CJA   |
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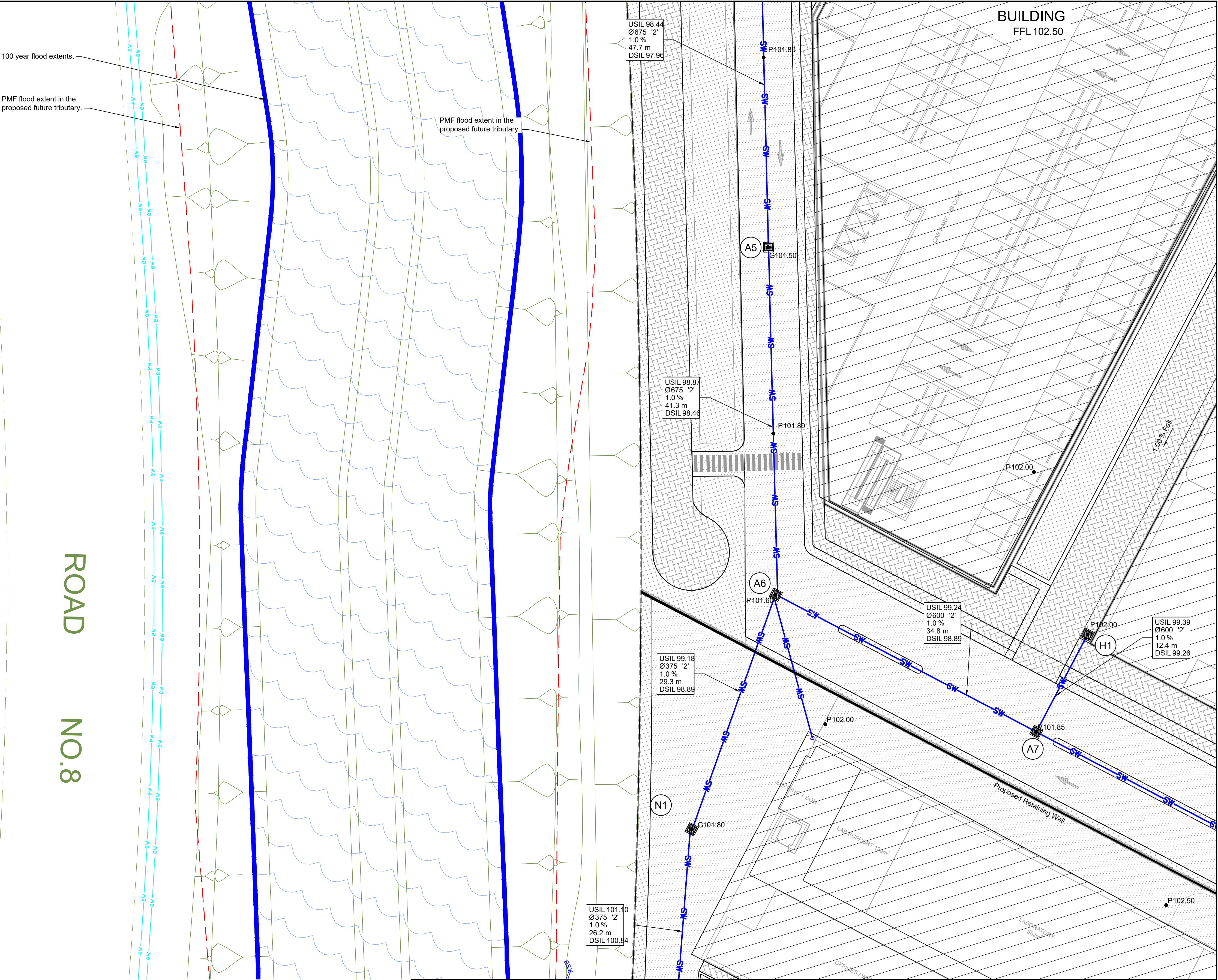
Client  
**Gregory Hills  
Development Company  
Pty Ltd**

Title  
**Gregory Hills Corporate Park  
Camden Medical Campus  
Civil Works  
Siteworks and Stormwater  
Drainage Plan Sheet 2**

|                |                            |          |              |           |          |
|----------------|----------------------------|----------|--------------|-----------|----------|
| Designed       | K Luo                      | 16.01.20 | Eng check    | J Wukowic | 16.01.20 |
| Drawn          | GA Paciben                 | 16.01.20 | Coordination | K Luo     | 16.01.20 |
| Dwg check      | A Singh                    | 16.01.20 | Approved     | J Wukowic | 16.01.20 |
| Scale at A1    | 1:250                      | Status   | PRE          | Rev       | P6       |
| Drawing Number | MMD-368851-C-DR-CA-DA-0131 |          |              |           |          |
|                |                            |          |              | Sec       | STD      |



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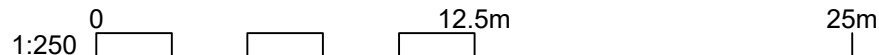
**Note:**  
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| P5  | 10.01.20 | KL    | Issued for Coordination                | KL     | JW    |
| P4  | 13.05.16 | AMP   | Issued for Approval - Minor Amendments | SR     | CJA   |
| P3  | 11.05.16 | AMP   | Issued for Approval - Minor Amendments | SR     | CJA   |
| P2  | 06.05.16 | AMP   | Issued for Approval                    | SR     | CJA   |
| P1  | 22.04.16 | AMP   | Issued Client Review                   | SR     | X     |
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Client  
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Development Company  
Pty Ltd**

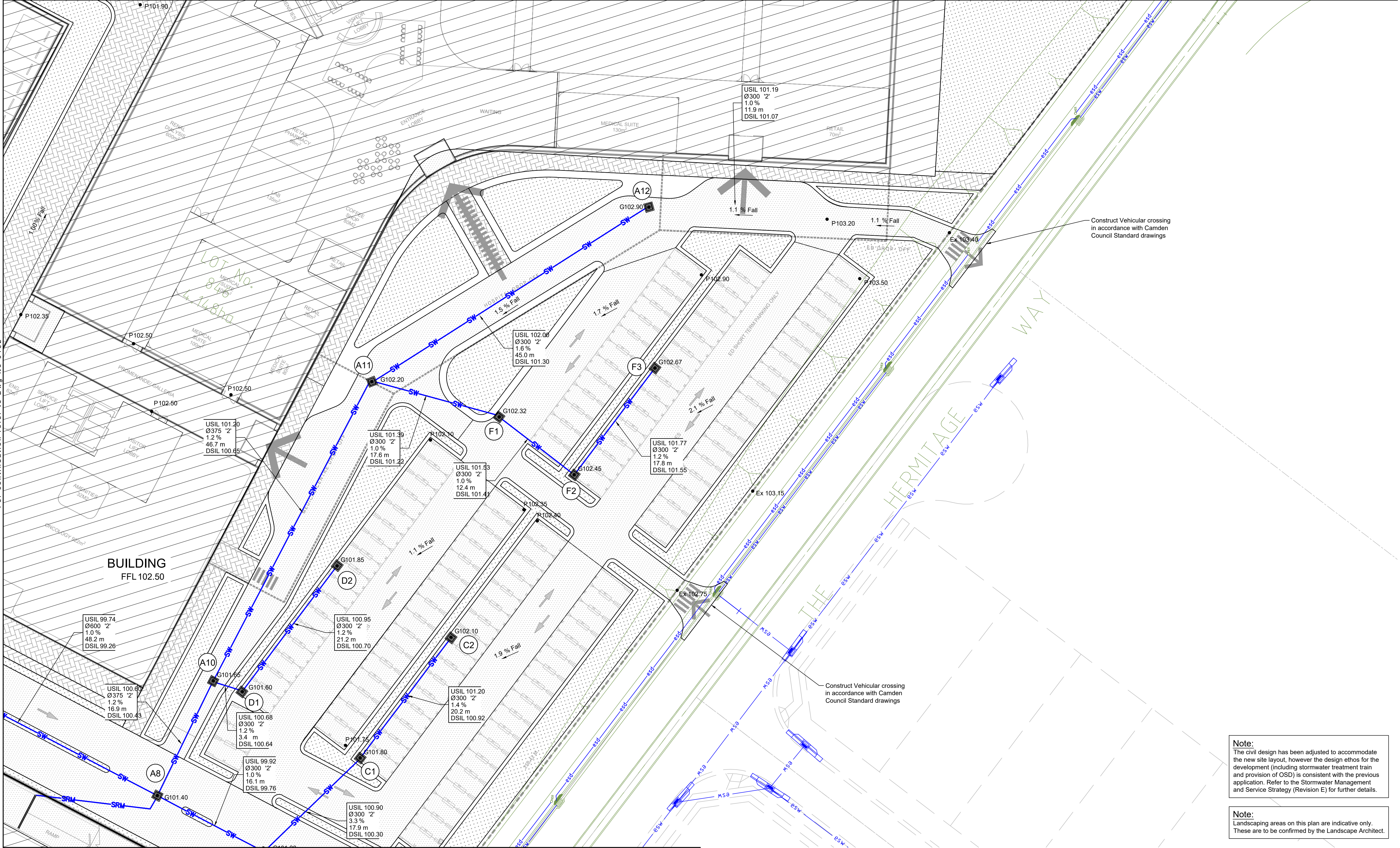
Title  
**Gregory Hills Corporate Park  
Camden Medical Campus  
Civil Works  
Siteworks and Stormwater  
Drainage Plan Sheet 3**

|             |            |                |                            |           |          |
|-------------|------------|----------------|----------------------------|-----------|----------|
| Designed    | K Luo      | 16.01.20       | Eng check                  | J Wukowic | 16.01.20 |
| Drawn       | GA Paciben | 16.01.20       | Coordination               | K Luo     | 16.01.20 |
| Dwg check   | A Singh    | 16.01.20       | Approved                   | J Wukowic | 16.01.20 |
| Scale at A1 | 1:250      | Status         | PRE                        | Rev       | P6       |
| Sec         | STD        | Drawing Number | MMD-368851-C-DR-CA-DA-0132 |           |          |

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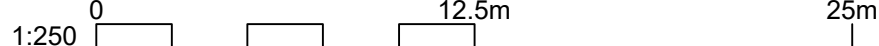
**Note:**  
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| P5  | 10.01.20 | KL    | Issued for Coordination                | KL     | JW    |
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| P1  | 22.04.16 | AMP   | Issued Client Review                   | SR     | X     |
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**M**  
**MOTT**  
**MACDONALD**

Level 10, 383 Kent Street  
Sydney, NSW 2000  
Australia  
PO Box Q1678  
QVB Sydney NSW 1230  
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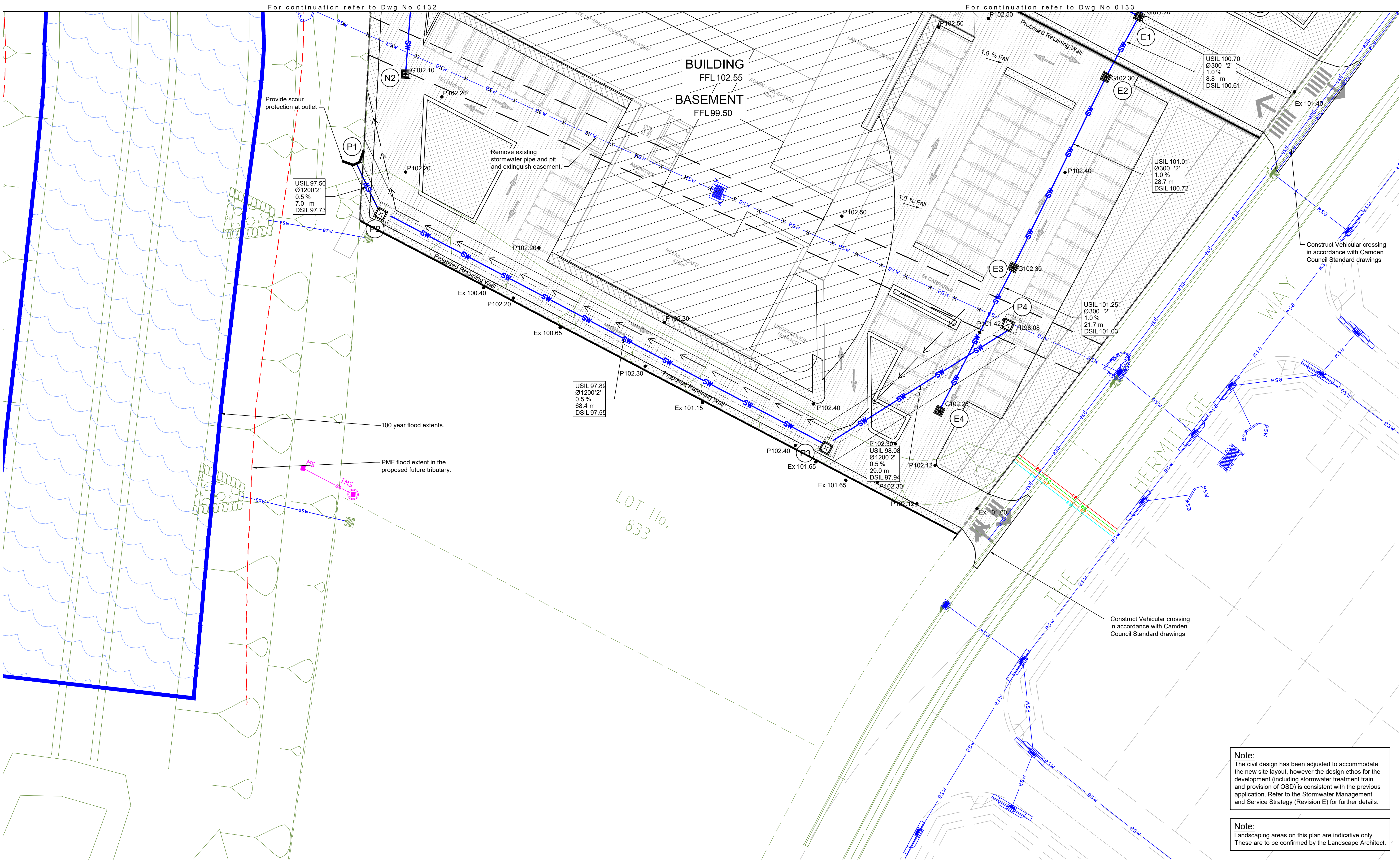
Client  
**Gregory Hills  
Development Company  
Pty Ltd**

Title  
**Gregory Hills Corporate Park  
Camden Medical Campus  
Civil Works  
Siteworks and Stormwater  
Drainage Plan Sheet 4**

|                |                            |          |              |           |          |
|----------------|----------------------------|----------|--------------|-----------|----------|
| Designed       | K Luo                      | 16.01.20 | Eng check    | J Wukowic | 16.01.20 |
| Drawn          | GA Paciben                 | 16.01.20 | Coordination | K Luo     | 16.01.20 |
| Dwg check      | A Singh                    | 16.01.20 | Approved     | J Wukowic | 16.01.20 |
| Scale at A1    | 1:250                      | Status   | PRE          | Rev       | P6       |
| Drawing Number | MMD-368851-C-DR-CA-DA-0133 | Sec      | STD          |           |          |

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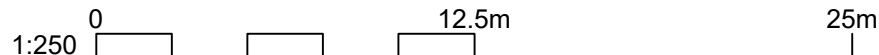
**Note:**  
The civil design has been adjusted to accommodate the new site layout, however the design ethos for the development (including stormwater treatment train and provision of OSD) is consistent with the previous application. Refer to the Stormwater Management and Service Strategy (Revision E) for further details.

**Note:**  
Landscaping areas on this plan are indicative only. These are to be confirmed by the Landscape Architect.

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|     |          |       |                                        |        |       |
|-----|----------|-------|----------------------------------------|--------|-------|
| P6  | 16.01.20 | GAP   | Issued for Section 4.55 Modification   | AS     | JW    |
| P5  | 10.01.20 | KL    | Issued for Coordination                | KL     | JW    |
| P4  | 13.05.16 | AMP   | Issued for Approval - Minor Amendments | SR     | CJA   |
| P3  | 11.05.16 | AMP   | Issued for Approval - Minor Amendments | SR     | CJA   |
| P2  | 06.05.16 | AMP   | Issued for Approval                    | SR     | CJA   |
| P1  | 22.04.16 | AMP   | Issued Client Review                   | SR     | X     |
| Rev | Date     | Drawn | Description                            | Ch'k'd | App'd |



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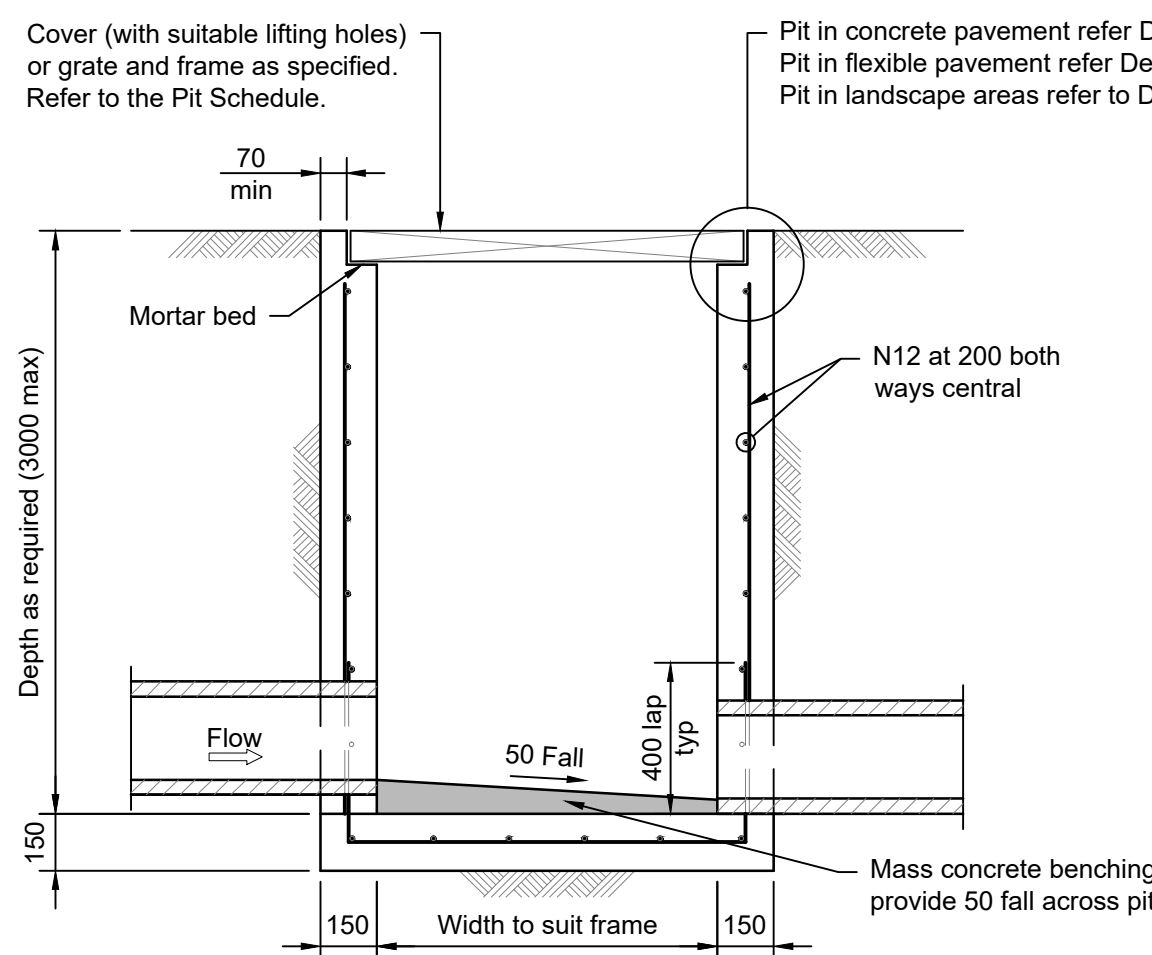
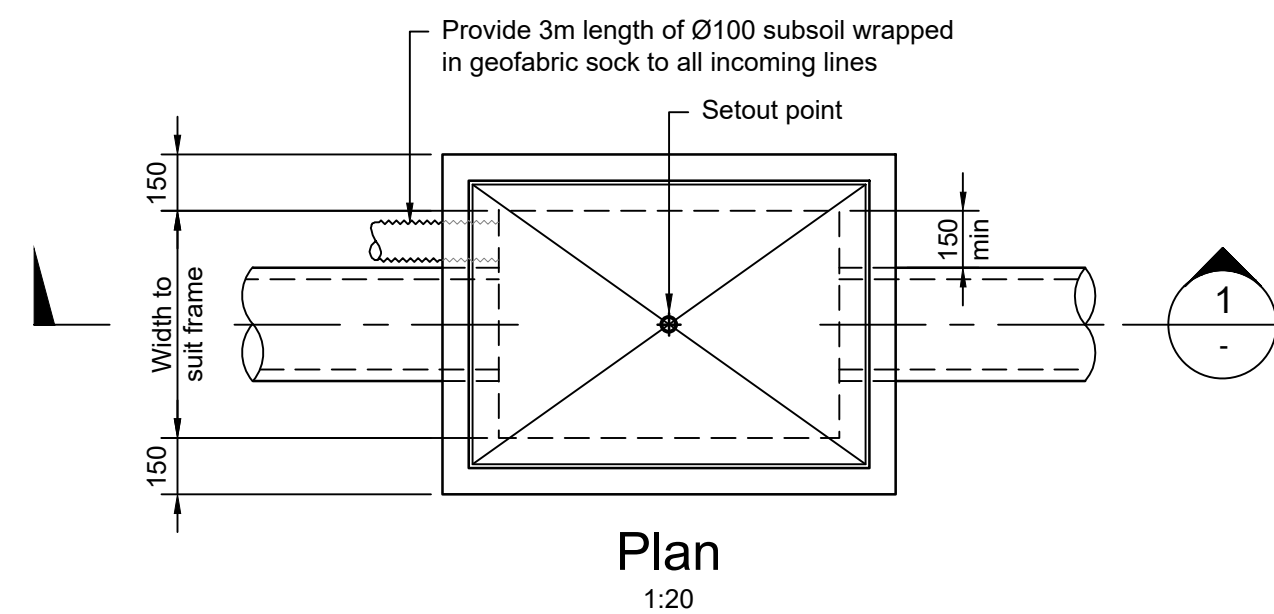
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Client  
**Gregory Hills  
Development Company  
Pty Ltd**

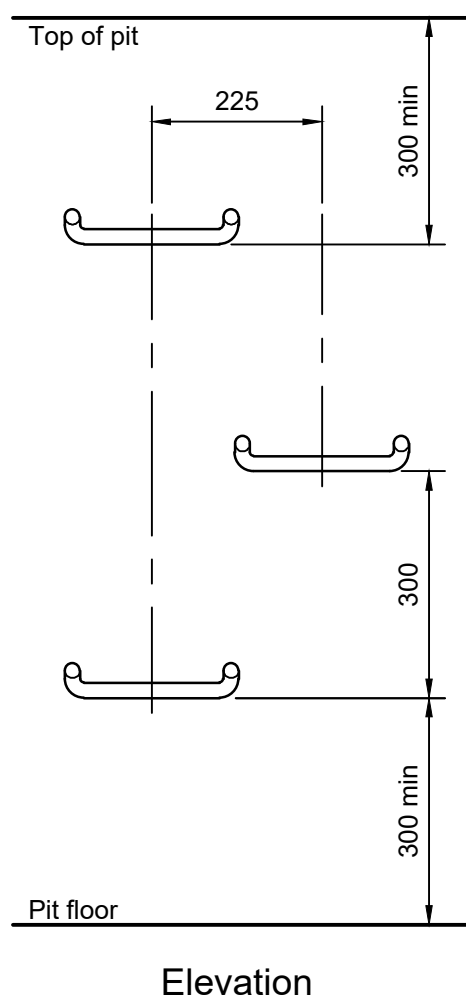
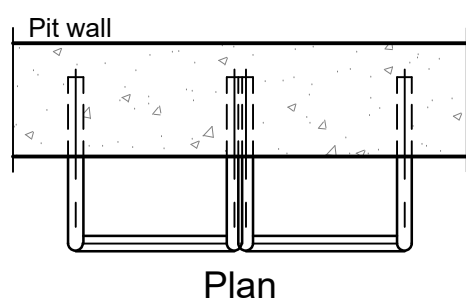
Title  
**Gregory Hills Corporate Park  
Camden Medical Campus  
Civil Works  
Siteworks and Stormwater  
Drainage Plan Sheet 5**

|                                                     |            |          |              |           |          |
|-----------------------------------------------------|------------|----------|--------------|-----------|----------|
| Designed                                            | K Luo      | 16.01.20 | Eng check    | J Wukowic | 16.01.20 |
| Drawn                                               | GA Paciben | 16.01.20 | Coordination | K Luo     | 16.01.20 |
| Dwg check                                           | A Singh    | 16.01.20 | Approved     | J Wukowic | 16.01.20 |
| Scale at A1                                         | 1:250      | Status   | PRE          | Rev       | P6       |
|                                                     |            |          |              | Sec       | STD      |
| Drawing Number<br><b>MMD-368851-C-DR-CA-DA-0134</b> |            |          |              |           |          |

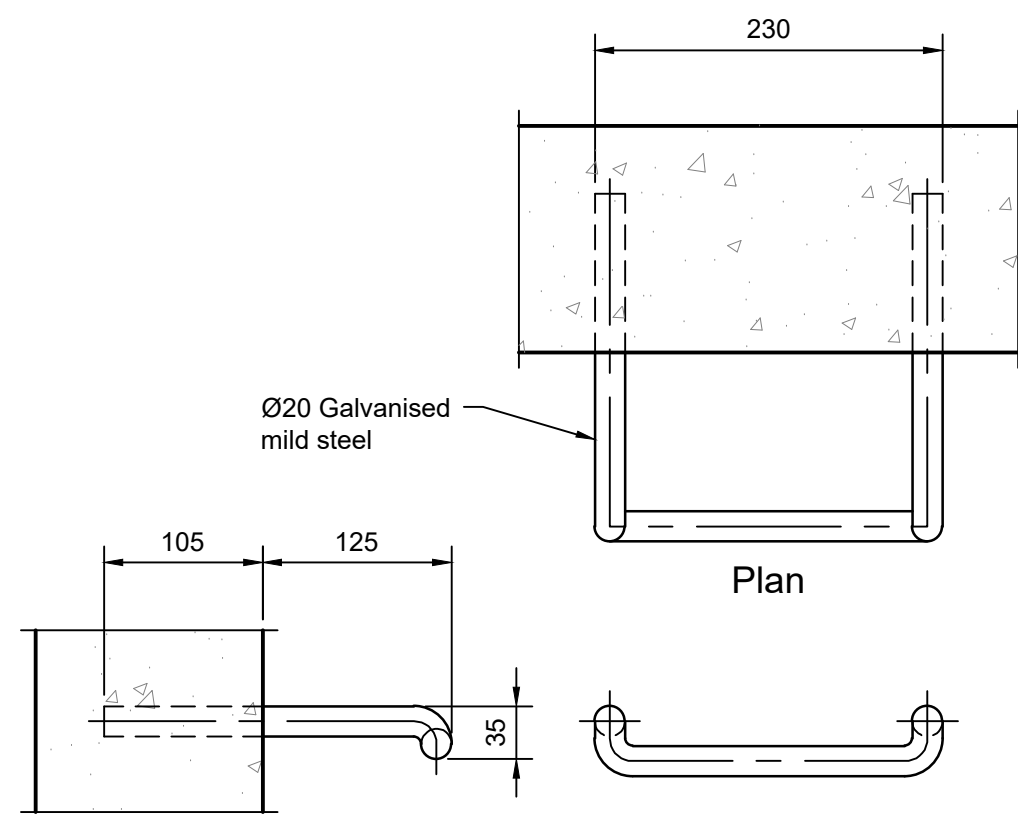




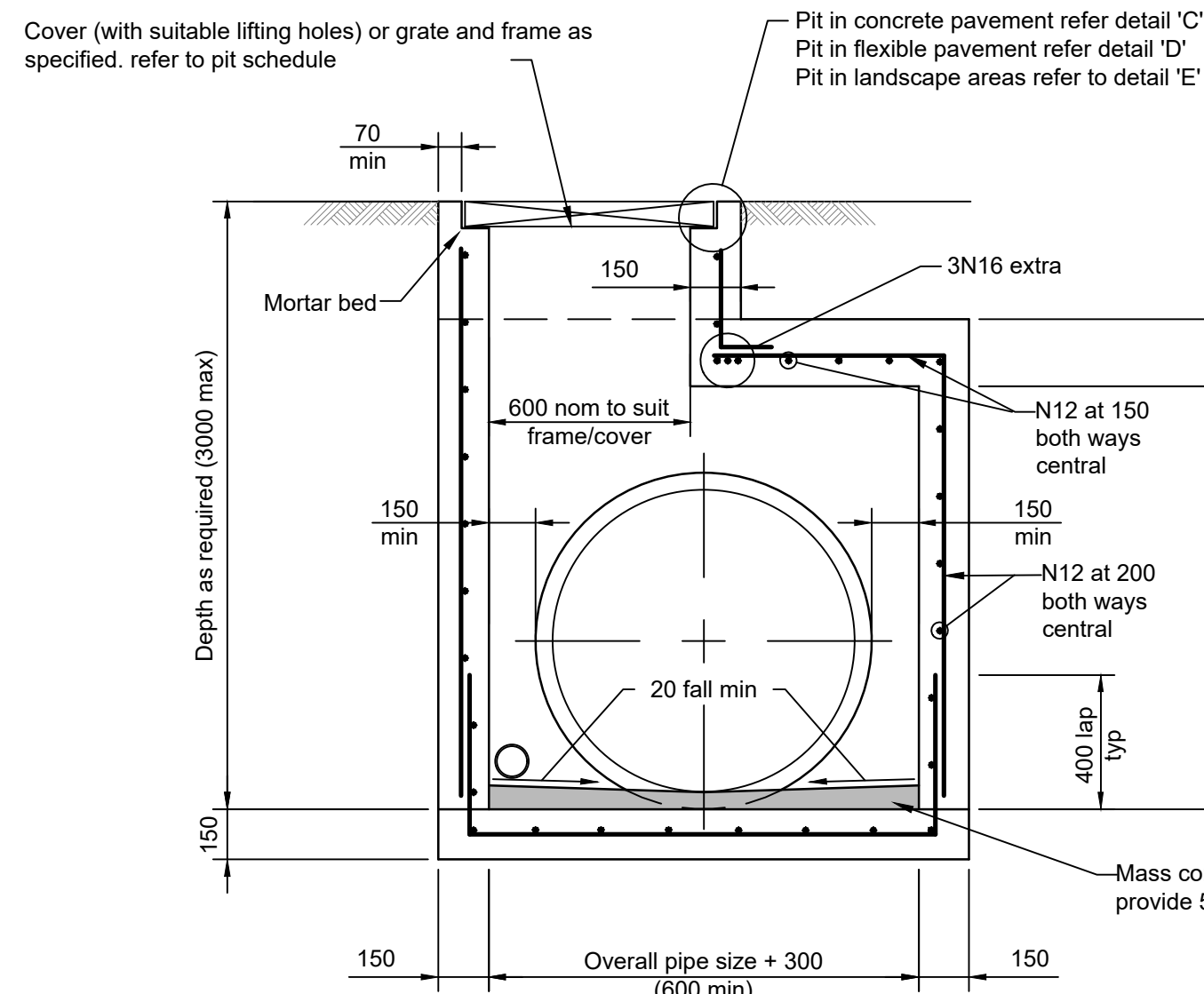
Surface Inlet / Junction Pit  
(pipe sizes ≤ Ø450)



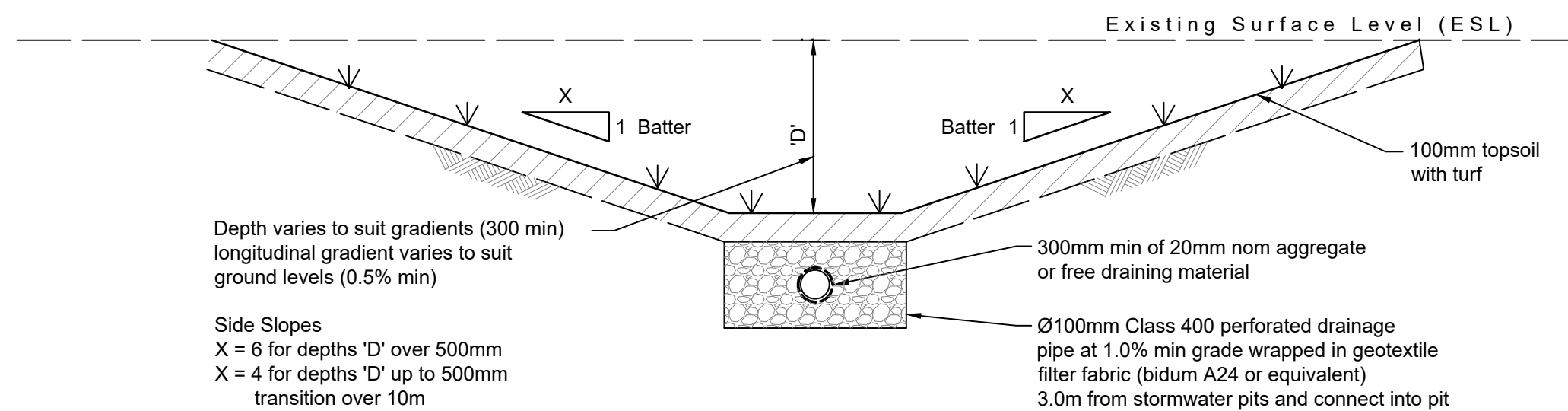
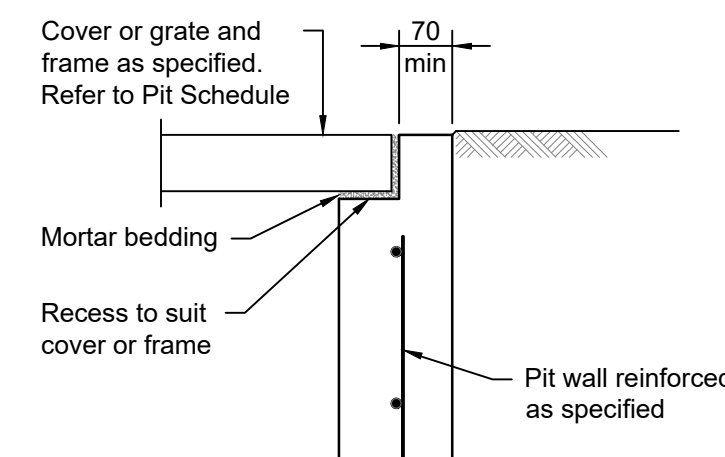
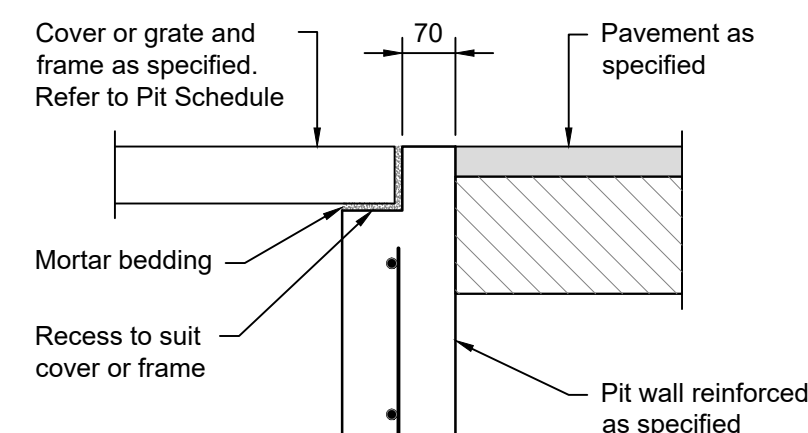
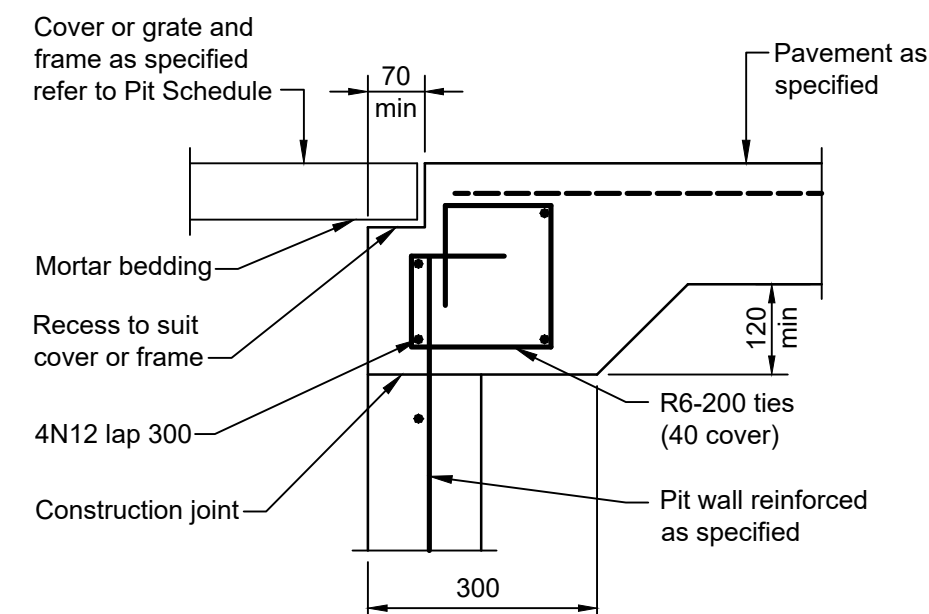
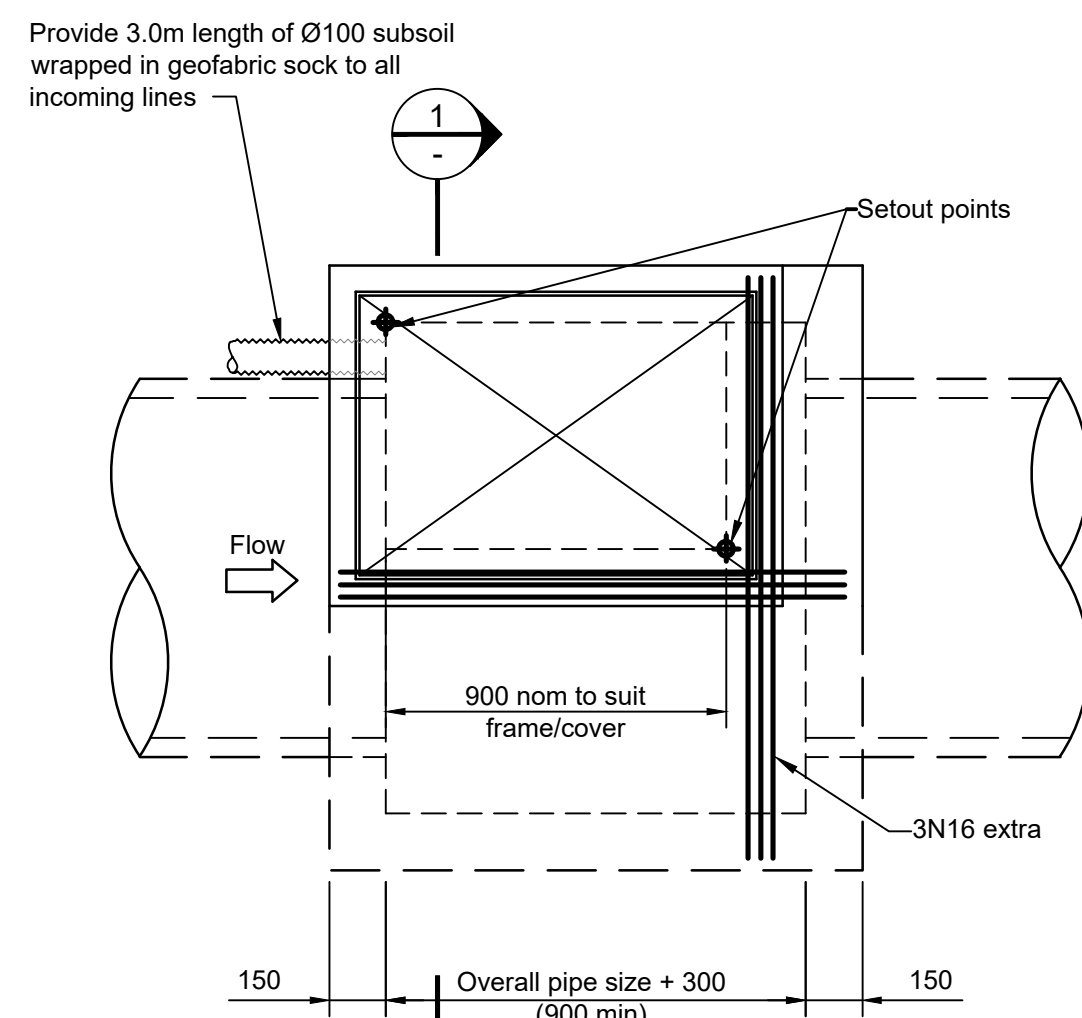
Step Iron  
Placement to Pit Wall  
NTS



Step Iron Detail  
1:5



Surface inlet / junction pit  
( pipe sizes > Ø450 )



Grass Lined Swale  
1:20

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| Rev | Date     | Drawn | Description                            | Ch'k'd | App'd |
|-----|----------|-------|----------------------------------------|--------|-------|
| P6  | 16.01.20 | GAP   | Issued for Section 4.55 Modification   | AS     | JW    |
| P4  | 13.05.16 | AMP   | Issued for Approval - Minor Amendments | SR     | CJA   |
| P3  | 11.05.16 | AMP   | Issued for Approval - Minor Amendments | SR     | CJA   |
| P2  | 06.05.16 | AMP   | Issued for Approval                    | SR     | CJA   |
| P1  | 22.04.16 | AMP   | Issued Client Review                   | SR     | X     |

|      |   |        |        |
|------|---|--------|--------|
| 1:5  | 0 | 250mm  | 500mm  |
| 1:10 | 0 | 500mm  | 1000mm |
| 1:20 | 0 | 1000mm | 2000mm |

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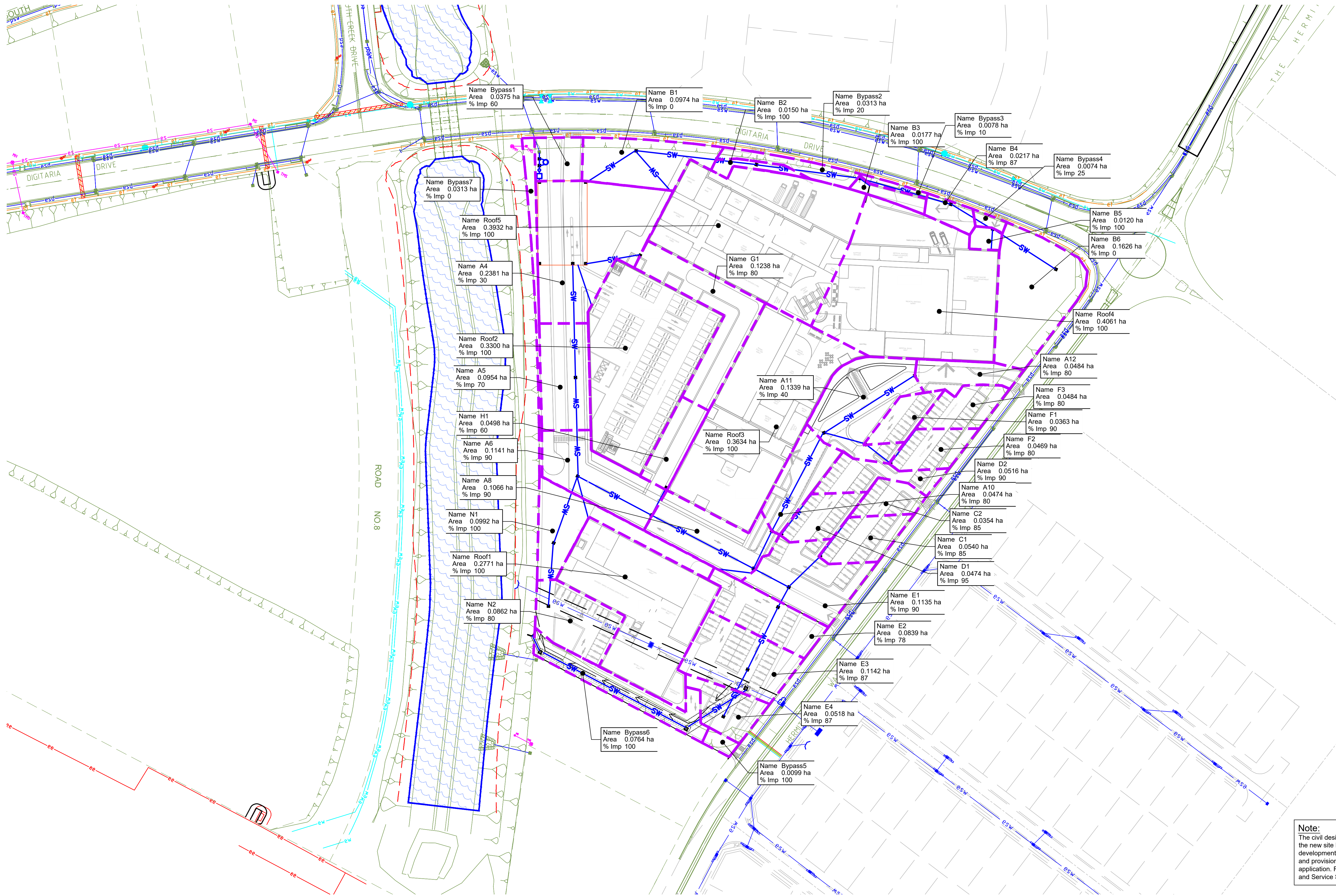
Client  
**Gregory Hills  
Development Company  
Pty Ltd**

Title  
**Gregory Hills Corporate Park  
Camden Medical Campus  
Civil Works  
Stormwater Drainage Details  
Sheet 1**

|                |                            |          |              |           |          |
|----------------|----------------------------|----------|--------------|-----------|----------|
| Designed       | K Luo                      | 16.01.20 | Eng check    | J Wukowic | 16.01.20 |
| Drawn          | GA Paciben                 | 16.01.20 | Coordination | K Luo     | 16.01.20 |
| Dwg check      | A Singh                    | 16.01.20 | Approved     | J Wukowic | 16.01.20 |
| Scale at A1    | Status                     | Rev      | Sec          |           |          |
| As Shown       | PRE                        | P5       | STD          |           |          |
| Drawing Number | MMD-368851-C-DR-CA-DA-0140 |          |              |           |          |

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**Note:**  
The civil design has been adjusted to accommodate the new site layout, however the design ethos for the development (including stormwater treatment train and provision of OSD) is consistent with the previous application. Refer to the Stormwater Management and Service Strategy (Revision E) for further details.

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| P5  | 16.01.20 | GAP   | Issued for Section 4.55 Modification   | AS     | JW    |
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| P3  | 11.05.16 | AMP   | Issued for Approval - Minor Amendments | SR     | CJA   |
| P2  | 06.05.16 | AMP   | Issued for Approval                    | SR     | CJA   |
| P1  | 22.04.16 | AMP   | Issued Client Review                   | SR     | X     |

1:800 0 40m 80m



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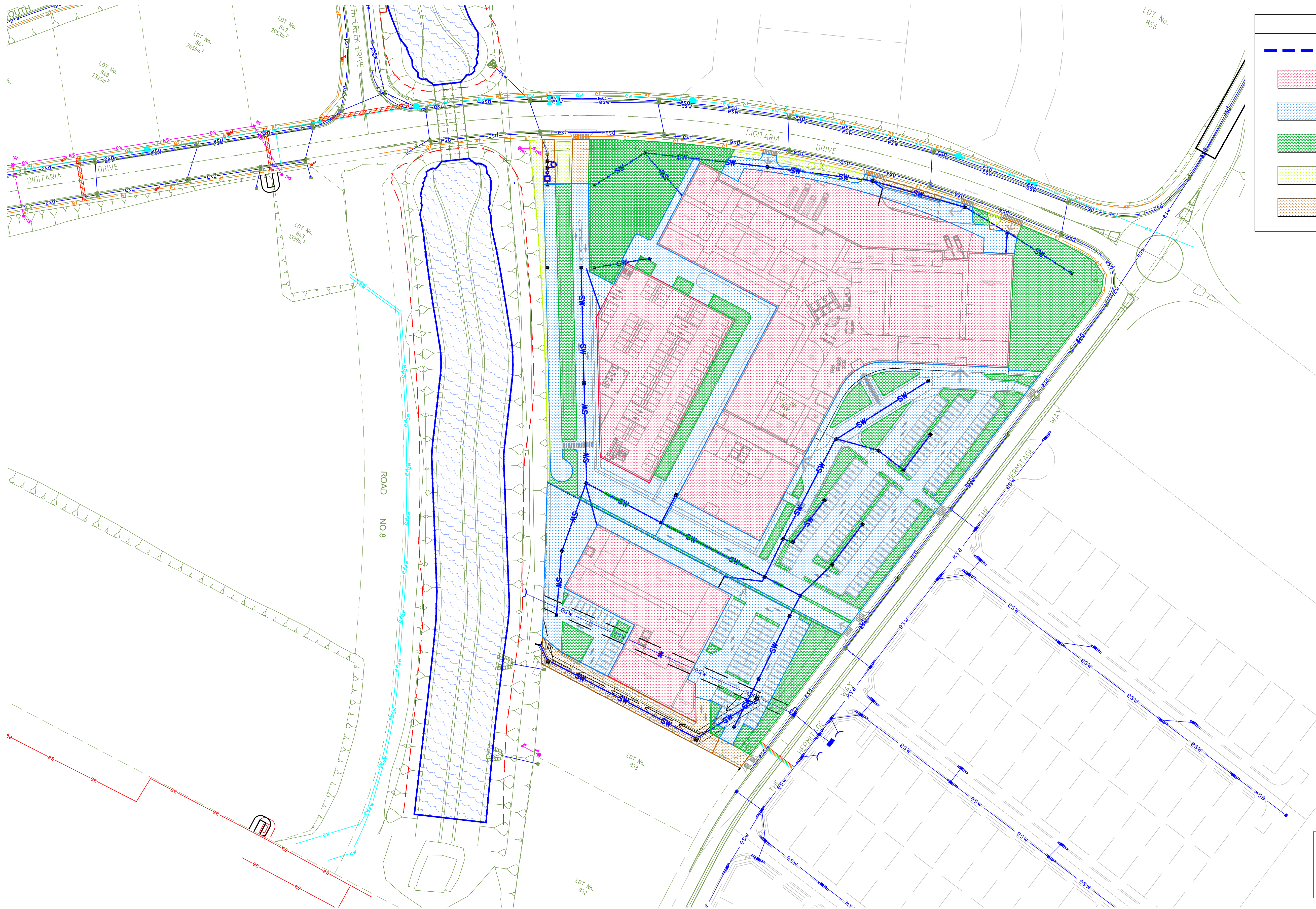
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Client  
**Gregory Hills  
Development Company  
Pty Ltd**

Title  
**Gregory Hills Corporate Park  
Camden Medical Campus  
Civil Works  
DRAINS Catchment Plan**

|                |                            |          |              |           |          |
|----------------|----------------------------|----------|--------------|-----------|----------|
| Designed       | K Luo                      | 16.01.20 | Eng check    | J Wukowic | 16.01.20 |
| Drawn          | GA Paciben                 | 16.01.20 | Coordination | K Luo     | 16.01.20 |
| Dwg check      | A Singh                    | 16.01.20 | Approved     | J Wukowic | 16.01.20 |
| Scale at A1    | 1:800                      | Status   | PRE          | Rev       | P5       |
| Drawing Number | MMD-368851-C-DR-CA-DA-0210 |          |              |           |          |
|                |                            |          |              | Sec       | STD      |





Legend

'MUSIC' Catchment Boundary

Roof to Treatment = 1.769ha

Sealed Road and Footpath to Treatment = 1.451ha

Landscape to Treatment = 0.741ha

Landscape Bypass = 0.067ha

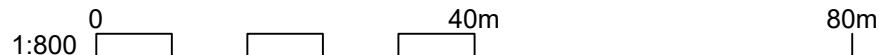
Sealed Road and Footpath Bypass = 0.120ha

**Note:**  
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|-----|----------|-------|----------------------------------------|--------|-------|
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| P4  | 13.05.16 | AMP   | Issued for Approval - Minor Amendments | SR     | CJA   |
| P3  | 11.05.16 | AMP   | Issued for Approval - Minor Amendments | SR     | CJA   |
| P2  | 06.05.16 | AMP   | Issued for Approval                    | SR     | CJA   |
| P1  | 22.04.16 | AMP   | Issued Client Review                   | SR     | X     |



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Client  
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Development Company  
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Title  
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Camden Medical Campus  
Civil Works  
MUSIC Catchment Plan

|                |                            |          |              |           |          |
|----------------|----------------------------|----------|--------------|-----------|----------|
| Designed       | K Luo                      | 16.01.20 | Eng check    | J Wukowic | 16.01.20 |
| Drawn          | GA Paciben                 | 16.01.20 | Coordination | K Luo     | 16.01.20 |
| Dwg check      | A Singh                    | 16.01.20 | Approved     | J Wukowic | 16.01.20 |
| Scale at A1    | 1:800                      | Status   | PRE          | Rev       | P5       |
| Drawing Number | MMD-368851-C-DR-CA-DA-0220 |          |              |           |          |
|                |                            |          |              | Sec       | STD      |