

OVERALL SITE PLAN  
SCALE 1:750

NOT FOR CONSTRUCTION

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0 RESUBMITTED DEVELOPMENT APPLICATION		13.12.18				TITLE OVERALL SITE PLAN				SCALES 1:750	JOB No 17-828	DRAWING No DA00.00	ISSUE 0
ISSUE		REASON FOR ISSUE		DATE		DATE OF RELEASE		RESPONSIBLE PRINCIPAL SIGNATURE		ISSUE			



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FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm




SEDIMENTATION AND EROSION CONTROL PLAN SHEET 1

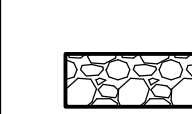
SCALE 1:200


SEDIMENTATION AND EROSION CONTROL NOTES

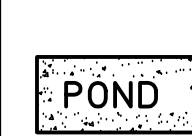
1. SELECTIVE CLEARING OF VEGETATION TO BE RESTRICTED TO NOMINATED AREAS WITH CLEARED VEGETATION WINDOWED ON THE CONTOUR.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED PRIOR TO SITE DISTURBANCE.
3. TOPSOIL FROM ALL AREAS THAT WILL BE DISTURBED TO BE STRIPPED AND STOCKPILED AT THE NOMINATED SITE.
4. NO MORE THAN 150m OF TRENCH TO BE OPEN AT ANY ONE TIME.
5. CUT AND FILL BATTER GRADIENTS OF 1:2 (MAXIMUM).
6. A STRIP OF TURF 450mm WIDE IS TO BE PLACED IMMEDIATELY BEHIND THE KERB ON ALL NEW ROAD TO ACT AS A FILTER TRAP. REFER TO DETAIL SD6-13.
7. ALL SEDIMENT CONTROL STRUCTURES TO BE INSPECTED BY SITE SUPERVISOR AFTER EACH RAINFALL EVENT FOR STRUCTURAL DAMAGE AND ALL TRAPPED SEDIMENT TO BE REMOVED TO A NOMINATED STOCKPILE SITE.
8. THE PROJECT MANAGER TO INFORM ALL CONTRACTORS AND SUB-CONTRACTORS OF THEIR OBLIGATIONS UNDER THE EROSION AND SEDIMENT CONTROL PLAN.
9. NO DISTURBED AREA IS TO REMAIN DENUDED LONGER THAN 14 DAYS.
10. ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END OF EACH DAY'S OPERATION.
11. THE CONTRACTOR MUST ENSURE THE SUITABILITY AND INTEGRITY OF ALL WORKS AT THE END OF EACH DAY'S WORK.
12. ORANGE BARRIER TAPE TO BE AFFIXED TO TOP OF SEDIMENT CONTROL BARRIER TO IDENTIFY WORK AREA.
13. ALL SEDIMENTATION & EROSION CONTROL MEASURES ARE TO STRICTLY COMPLY WITH THE GUIDELINES DETAILED IN THE DEPARTMENT OF HOUSING PUBLICATION, "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION", 4TH EDITION.
14. WATER TRUCKS TO BE USED AS REQUIRED TO PREVENT WIND EROSION.
15. SUBGRADE MATERIAL TO BE CONSTRUCTED IMMEDIATELY FOLLOWING FILL.


LEGEND


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DENOTES ALLOWABLE AREA FOR TEMPORARY STOCKPILING OF CUT SOIL MATERIAL, REFER TO DETAIL SD4-1
- 

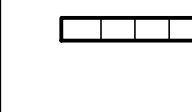
DENOTES ROCK CHECK DAM, REFER TO DETAIL SD5-4
- 

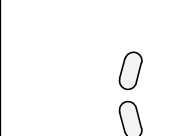
DENOTES EARTH BANK (LOW FLOW), REFER TO DETAIL SD5-5
- 


DENOTES SEDIMENT POND, 374m³ SETTLING ZONE, 187m³ SEDIMENT STORAGE, REFER TO DETAIL SD6-4
- 

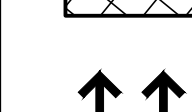
DENOTES SEDIMENT POND, 567m³ SETTLING ZONE, 283m³ SEDIMENT STORAGE, REFER TO DETAIL SD6-4
- 

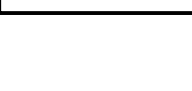
DENOTES SEDIMENT POND, 294m³ SETTLING ZONE, 147m³ SEDIMENT STORAGE, REFER TO DETAIL SD6-4
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DENOTES STRAW BALE FILTER, REFER TO DETAIL SD6-7
- 

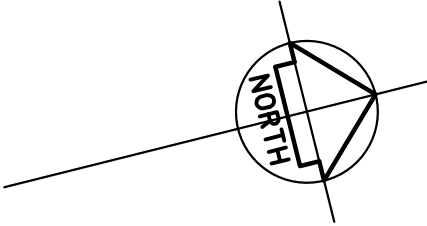
DENOTES SEDIMENT FENCE, REFER TO DETAIL SD6-8
- 

DENOTES MESH AND GRAVEL INLET FILTER, REFER TO DETAIL SD6-11
- 

DENOTES GEOTEXTILE INLET FILTER, REFER TO DETAIL SD6-12
- 

DENOTES STABILISED SITE ACCESS, REFER TO DETAIL SD6-14
- 

DENOTES LEVEL SPREADER



MATCH LINE A

NOT FOR CONSTRUCTION

MATCH LINE C

EROSION AND SEDIMENTATION CONTROL NOTES:

- The following notes may not be relevant to each development.
- GENERAL:**
- 1 ESDP refers to Erosion and Sediment Control Plan or a Soil and Water Management Plan (SWMP).
  - 2 ESDP refers to erosion and sediment control.
  - 3 Sediment, includes, but is not limited to, clay, silt, sand, gravel, soil, mud, cement, and ceramic waste.
  - 4 Any reference to the Blue Book refers to Managing Urban Stormwater - Soils and Construction, London, 2004.
  - 5 Any reference to the ECA White Books (2008) refers to ECA 2008, Best Practice Erosion and Sediment Control, Books 1-6 (International Erosion Control Association (Australia)). Pictorial NSW.
  - 6 Any material deposited in any conservation area from works associated with the development shall be removed immediately by measures involving minimal ground and/or vegetation disturbance and no machinery, or following directions by Council and/or within a timeframe advised by Council.
- THE ESDP**
- 7 The ESDP and its associated ESC measures shall be constantly monitored, reviewed, and modified as required to correct deficiencies. Council has the right to direct changes if, in its opinion, the measures that are proposed have been installed are inadequate to prevent pollution.
  - 8 Prior to any activities on-site, the responsible person(s) is to be nominated. The responsible person(s) shall be responsible for the ESC measures on-site. The name, address and 24 hour contact details of the person(s) shall be provided to Council in writing. Council shall be advised within 48 hours of any changes to the responsible person(s), or their contact details, in writing.
  - 9 At least 14 days before the natural surface is disturbed in any new stage, the contractor shall submit to the Certifier, a plan showing ESC measures for that stage. The degree of design detail shall be based on the disturbed area.
  - 10 At any time during construction, the ESC measures on-site shall be appropriate for the area of disturbance and its characteristics including soils (in accordance with those required for the site as per DOP).
  - 11 The implementation of the ESDP shall be supervised by personnel with appropriate qualifications and/or experience in ESC on construction sites.
  - 12 The approved ESDP shall be available on-site for inspection by Council officers while work activities are occurring.
  - 13 The approved ESDP shall be up to date and show a timeline of installation, maintenance and removal of ESC measures.
  - 14 All ESC measures shall be appropriate for the Sediment Type(s) of the soils on-site, in accordance with the Blue Book, ECA White Books or other current recognised industry standard for ESC for Australian conditions.
  - 15 Adequate site data, including soil data from a NATA approved Laboratory, shall be obtained to allow the preparation of an appropriate ESDP, and allow the selection, design and specification of required ESC measures.
  - 16 All works shall be carried out in accordance with the approved ESDP (as amended from time to time) unless circumstances arise where:
    - a) compliance with the ESDP would increase the potential for environmental harm; or
    - b) circumstances change during construction and those circumstances could not have been foreseen; or
    - c) Council determines that unacceptable off-site sedimentation is occurring as a result of a land-disturbing activity. In either case, the person(s) responsible may be required to take additional, or alternative protective action, and/or undertake reasonable restoration works within the timeframe specified by the Council.
  - 17 Additional ESC measures shall be implemented and a revised ESDP submitted for approval to the certifier (within five business days of any such amendments) in the event that:
    - a) there is a high probability that serious or material environmental harm may occur as a result of sediment leaving the site; or
    - b) the implemented works fail to achieve Council's water quality objectives specified in these conditions; or
    - c) site conditions significantly change; or
    - d) site inspections indicate that the implemented works are failing to achieve the 'objective' of the ESDP.
  - 18 A copy of any amended ESDP shall be forwarded to an appropriate Council Officer, within five business days of any such amendments.

SITE ESTABLISHMENT INCLUDING CLEARING AND MULCHING

- 19 No land clearing shall be undertaken unless preceded by the installation of adequate drainage and sediment control measures, unless such clearing is required for the purpose of installing such measures, in which case, only the minimum clearing required to install such measures shall occur.
- 20 Bulk tree clearing and grubbing of the site shall be immediately followed by specified temporary erosion control measures (e.g. temporary grassing or mulching) prior to commencement of each stage of construction works.
- 21 Trees and vegetation cleared from the site shall be mulched on-site within 7 days of clearing.
- 22 Appropriate measures shall be undertaken to control any dust originating due to the mulching of vegetation on-site.
- 23 All office facilities and operational activities shall be located such that any effluent, including wash-down water, can be totally contained and treated within the site.
- 24 All reasonable and practicable measures shall be taken to ensure stormwater runoff from access roads and stabilised entry/exit systems, drains to an appropriate sediment control device.
- 25 Site exit points shall be appropriately managed to minimise the risk of sediment being tracked onto sealed, public roadways.
- 26 Stormwater runoff from access roads and stabilised entry/exit points shall drain to an appropriate sediment control device.
- 27 The Applicant shall ensure an adequate supply of ESC, and appropriate pollution clean-up materials are available on-site at all times.
- 28 All temporary earth banks, flow diversion systems, and sediment basin embankments shall be machine-compacted, seeded and mulched within ten (10) days of formation for the purpose of establishing a vegetative cover, or lined appropriately.
- 29 Sediment deposited off site as a result of on-site activities shall be collected and the area cleaned/rehabilitated as soon as reasonable and practicable.
- 30 Concrete waste and chemical products, including petroleum and oil-based products, shall be prevented from entering any internal or external water body, or any external drainage system, excluding those on-site water bodies specifically designed to contain and/or treat such material. Appropriate measures shall be installed to trap these materials on-site.
- 31 Brick, tile or masonry cutting shall be carried out on a pervious surface (e.g. grass or open soil) and in such a manner that any resulting sediment-laden runoff is prevented from discharging into a gutter, drain or water. Appropriate measures shall be installed to trap these materials on-site.
- 32 Newly sealed hard-stand areas (e.g. roads, driveways and car parks) shall be swept thoroughly as soon as practicable after sealing/surfacing to minimise the risk of components of the surfacing compound entering stormwater drains.
- 33 Stockpiles of erodible material shall be provided with an appropriate protective cover (synthetic or organic) if the materials are likely to be stockpiled for more than 10 days.
- 34 Stockpiles, temporary or permanent, shall not be located in areas identified as no-go zones (including, but not limited to, restricted access areas, buffer zones, or areas of non-disturbance) on the ESDP.
- 35 No more than 150m of a stormwater, sewer line or other service trench shall to be open at any one time.
- 36 Site spoil shall be lawfully disposed of in a manner that does not result in ongoing soil erosion or environmental harm.
- 37 Whenever reasonable and practicable, stormwater runoff entering the site from external areas, and non-settled loads (clean) stormwater runoff entering a work area or area of soil disturbance, shall be diverted around or through that area in a manner that minimises soil erosion and the contamination of that water for all discharges up to the specified design storm discharge.

SITE MANAGEMENT INCLUDING DUST

- 38 Priority shall be given to the prevention, or at least the minimisation, of soil erosion, rather than the trapping of displaced sediment. Such a clause shall not reduce the responsibility to apply and maintain, at all times, all necessary ESC measures.
- 39 Measures used to control wind erosion shall be appropriate for the location and prevent soil erosion at all times, including working hours, out of hours, weekends, public holidays, and during any other shutdown periods.
- 40 The application of liquid or chemical-based dust suppression measures shall ensure that sediment-laden runoff resulting from such measures does not create a traffic or environmental hazard.
- 41 All cut and fill earth batters less than 3m in elevation shall be topped, and grass seeded/hydrated within 10 days of completion of grading in consultation with Council.
- 42 Once cut/fill operations have been finished in a section, all disturbed areas that are not being worked on shall be stabilised in accordance with time lines in the Blue Book.
- 43 All reasonable and practicable measures shall be taken to prevent, or at least minimise, the release of sediment from the site.
- 44 Suitable all-weather maintenance access shall be provided to all sediment control devices.
- 45 Sediment control devices, other than sediment basins, shall be de-silted and made fully operational as soon as reasonable and practicable after a sediment-producing event, whether natural or artificial, if the device's sediment retention capacity falls below 75% of its design retention capacity.
- 46 All erosion and sediment control measures, including drainage control measures, shall be maintained in proper working order at all times during their operational lives.
- 47 Washing/blasting of sealed roadways shall only occur where sweeping has failed to remove sufficient sediment and there is a compelling need to remove the remaining sediment (e.g. for safety reasons). In such circumstances, all reasonable and practicable sediment control measures shall be used to prevent, or at least minimise, the release of sediment into receiving waters. Only those measures that will not cause safety and property flooding issues shall be employed. Sediment removed from roadways shall be disposed of in a lawful manner that does not cause ongoing soil erosion or environmental harm.
- 48 Sediment removed from sediment traps and places of sediment deposition shall be disposed of in a lawful manner that does not cause ongoing soil erosion or environmental harm.

SEDIMENT BASINS - INSTALLATION, MAINTENANCE AND REMOVAL INCLUDING SEDIMENT TRAPS

- 49 As-Constructed plans shall be prepared for all constructed Sediment Basins and associated emergency spillways. Such plans shall verify the basin's dimensions, levels and volumes comply with the approved design drawings. These plans may be requested by the Certifier or Council.
- 50 Sediment basins shall be constructed and fully operational prior to any other soil disturbance in their catchment.
- 51 Install an internal gated valve, or similar, in any outlet pipe once pipes installed, or install a sacrificial pipe from basin through wall to external outlet point. The valve shall be connected to a riser made from slotted pipe in the basin. The valve may be opened once captured water meets water quality requirements. The final setup for temporary internal outlet shall be confirmed prior to construction with Council. This setup will enable discharge of treated water from site without need for pumping.
- 52 A sediment storage level marker post shall be with a cross member set just below the top of the sediment storage zone (as specified on the approved ESDP). At least a 70mm wide post shall be firmly set into the basin floor.
- 53 The Site Manager shall obtain the relevant approvals from the relevant organisations to discharge treated water from any existing basins. Organisations may include, but not be limited to, Hunter Water, and Council.
- 54 Where more than one stage is to be developed at one time, or before the preceding stage is complete, the sediment basin(s) shall be constructed to allow sufficient capacity to cater for all one directed to the basin(s).
- 55 Prior to any forecast weather event likely to result in runoff, any basins/traps shall be developed to provide sufficient capacity to capture sediment laden water from the site.
- 56 Sufficient quantities of chemicals/agents to treat captured water shall be placed such that water entering the basin mixes with the chemicals/agents and is carried into the basin to speed up clarification.
- 57 Any basin shall be dewatered within the X-day rainfall depth used to calculate the capacity of the basin, after a rainfall event.
- 58 Sufficient quantities of chemicals/agents to treat turbid water shall be securely stored on-site to provide for at least three complete treatments of all basins requiring chemical treatment on-site.
- 59 Prior to the controlled discharge (e.g. de-watering activities) from excavations and/or sediment basins, the following water quality objectives shall be achieved:
  - a) Total Suspended Solids (TSS) to a maximum 50mg/L;
  - b) water pH between 6.5 and 8.5, unless otherwise required by the Council;
  - c) Turbidity (measured in NTUs) to a maximum of 60 NTU; and
  - d) EC levels no greater than background levels.
- 60 The Development Approval may require testing of additional water quality elements prior to discharge. E.g. heavy metals.
- 61 A sample of the released treated water shall be kept on-site in a clear container with the sample date recorded on it.
- 62 Water quality samples shall be taken at a depth no less than 200mm below the water surface of the basin.
- 63 No Aluminium based products may be used to treat captured water on-site without the prior written permission from an appropriate Council Officer. The applicant shall have a demonstrated ability to use such products correctly and without environmental harm prior to any approval.
- 64 The chemical/agent used in Type D and Type F basins to treat captured water captured in the basin shall be applied in concentrations sufficient to achieve Council's water quality objectives within the X-day rainfall depth used to calculate the capacity of the basin, after a rainfall event.
- 65 All Manufacturers' instructions shall be followed for any chemicals/agents used on-site, except where approved by the Responsible Person or an appropriate Council Officer.
- 66 The Applicant shall ensure that on each occasion a Type F or Type D basin was not de-watered prior to being surcharged by a following rainfall event, a report is presented to an appropriate Council officer within 5 days identifying the circumstances and proposed amendments, if any, to the basin's operating procedures.
- 67 Settled sediment shall be removed as soon as reasonable and practicable from any sediment basin if:
  - a) it is anticipated that the next storm event is likely to cause sediment to settle above the basin's sediment storage zone; or
  - b) the elevation of settled sediment is above the top of the basin's sediment storage zone; or
  - c) the elevation of settled sediment is above the basin's sediment marker line.
- 68 Scour protection measures placed on sediment basin emergency spillways shall appropriately protect the spillway chute and its side batters from scour, and shall extend a minimum of 3m beyond the downstream toe of the basin's embankment.
- 69 Suitable all-weather maintenance access shall be provided to all sediment control devices.
- 70 Materials, whether liquid or solid, removed from any ESC measures during maintenance or decommissioning, shall be disposed of in a manner that does not cause ongoing soil erosion or environmental harm.
- 71 All sediment basins shall remain fully operational at all times until the basin's design catchment achieves 70% ground cover or surface stabilisation acceptable to Council.
- 72 The ESC measures installed during the decommissioning and rehabilitation of a sediment basin shall comply with some standards specified for the normal construction works.
- 73 A sediment basin shall not be decommissioned until all up-slope site stabilisation measures have been implemented and are appropriately working to control soil erosion and sediment runoff.
- 74 Immediately prior to the construction of the permanent stormwater treatment device, appropriate flow bypass conditions shall be established to prevent sediment-laden water entering the device.

REVEGETATION/STABILISATION

- 75 Temporary Stabilisation may be obtained using vegetation, non rewettable soil polymers, or pneumatically applied erosion controls.
- 76 All cut and fill earth batters less than 3m in elevation shall be topped, and grass seeded/hydrated within 10 days of completion of grading in consultation with Council.
- 77 Once cut/fill operations have been finished in a section, all disturbed areas that are not being worked on shall be stabilised in accordance with time lines in the Blue Book.
- 78 The PSCC Seed mix shall be used unless stated on the ESDP/SWMP.
- 79 The pH level of topsoil shall be appropriate to enable establishment and growth of specified vegetation prior to initiating the establishment of vegetation.
- 80 Non rewettable binder shall be used in all hydromulch/hydraseed/polymer mixes on slopes or works adjacent to a water course.
- 81 Soil ameliorants shall be added to the soil in accordance with an approved Landscape Plan, Vegetation Management Plan, and/or soil analysis.
- 82 Surface soil density, compaction and surface roughness shall be adjusted prior to seeding/planting in accordance with an approved Landscape Plan, Vegetation Management Plan, and/or soil analysis.
- 83 Procedures for initiating a site shutdown, whether programmed or un-programmed, shall incorporate revegetation of all soil disturbances unless otherwise approved by Council. The stabilisation works shall not rely upon the longevity of non-vegetated erosion control blankets, or temporary soil binders.

SITE MONITORING AND MAINTENANCE

- 84 The Applicant shall ensure that appropriate procedures and suitably qualified personnel are engaged to plan and conduct site inspections and water quality monitoring throughout the construction and maintenance phase.
- 85 All ESC measures shall be inspected and any maintenance undertaken immediately:
  - a) at least daily (when work is occurring on-site); and
  - b) at least weekly (when work is not occurring on-site); and
  - c) within 24hrs of expected rainfall; and
  - d) within 18hrs of a rainfall event that causes runoff on the site.
- 86 Written records shall be kept on-site of ESC monitoring and maintenance activities conducted during the construction and maintenance periods, and be available to Council officers on request.
- 87 All environmentally relevant incidents shall be recorded in a field log that shall remain accessible to all relevant regulatory authorities.
- 88 All water quality data, including dates of rainfall, dates of testing, testing results and dates of water release, shall be kept in an on-site register. The register is to be maintained up to date for the duration of the approved works and be available on-site for inspection by (insert name of regulatory authority) on request.
- 89 At nominated instream water monitoring sites, a minimum of 3 water samples shall be taken and analysed, and the average result used to determine quality.

INSTREAM WORKS

- 90 All instream works (including in or adjacent to watercourses natural or manmade, flowing or not) shall be carried out in accordance with the ECA White Books.

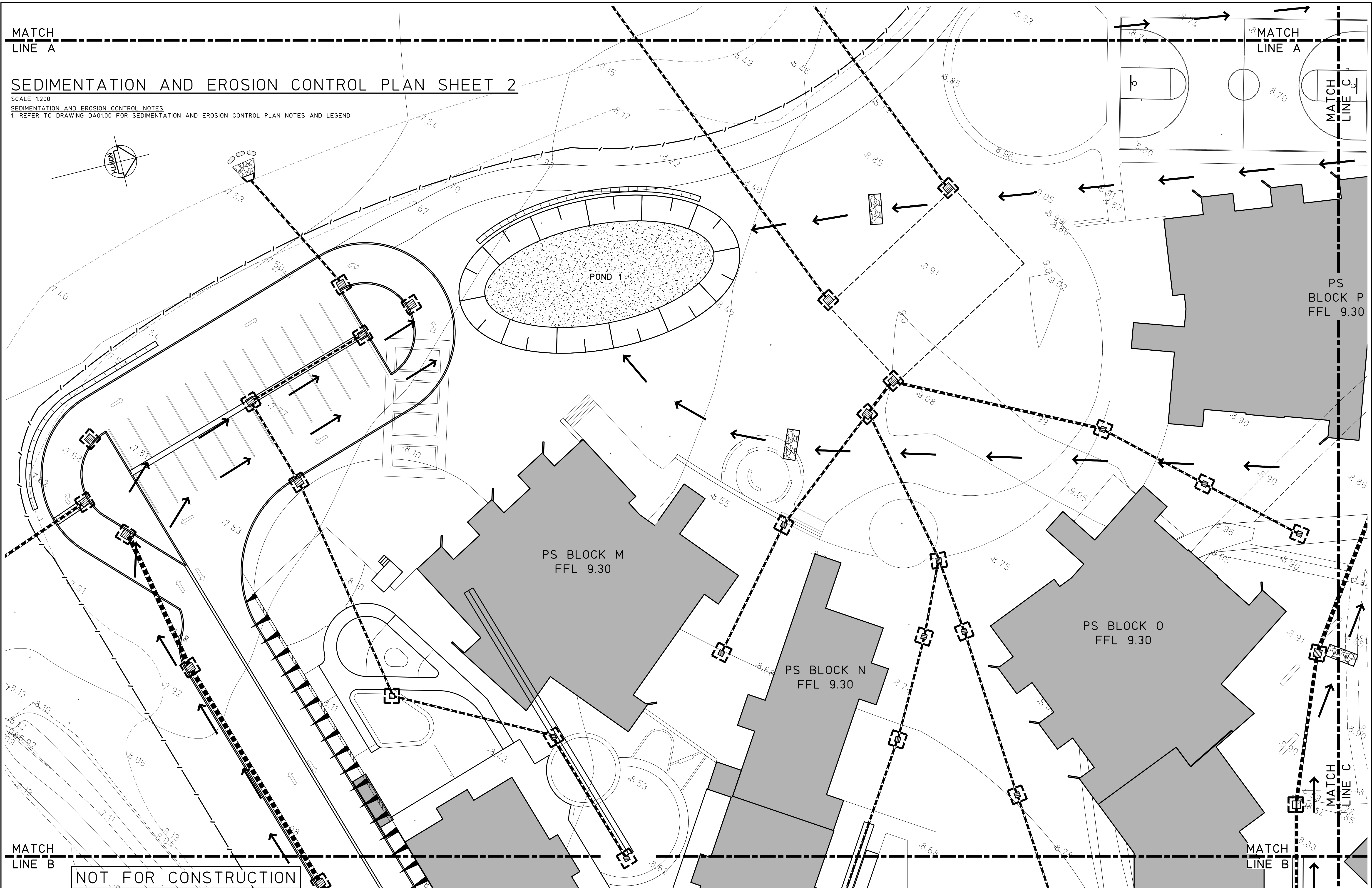
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0		RESUBMITTED DEVELOPMENT APPLICATION		13.12.18		TITLE		SEDIMENTATION AND EROSION CONTROL PLAN SHEET 1		SCALES 1:200	JOB No 17-828	DRAWING No DA01.00	ISSUE 0
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A.C.N. 098 542 575

FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm





MATCH  
LINE A

# SEDIMENTATION AND EROSION CONTROL PLAN SHEET 2

SCALE 1:200  
SEDIMENTATION AND EROSION CONTROL NOTES  
1. REFER TO DRAWING DA01.00 FOR SEDIMENTATION AND EROSION CONTROL PLAN NOTES AND LEGEND

MATCH  
LINE A

MATCH  
LINE C

PS  
BLOCK P  
FFL 9.30

PS BLOCK M  
FFL 9.30

PS BLOCK N  
FFL 9.30

PS BLOCK O  
FFL 9.30

MATCH  
LINE B

NOT FOR CONSTRUCTION

MATCH  
LINE B

MATCH  
LINE C

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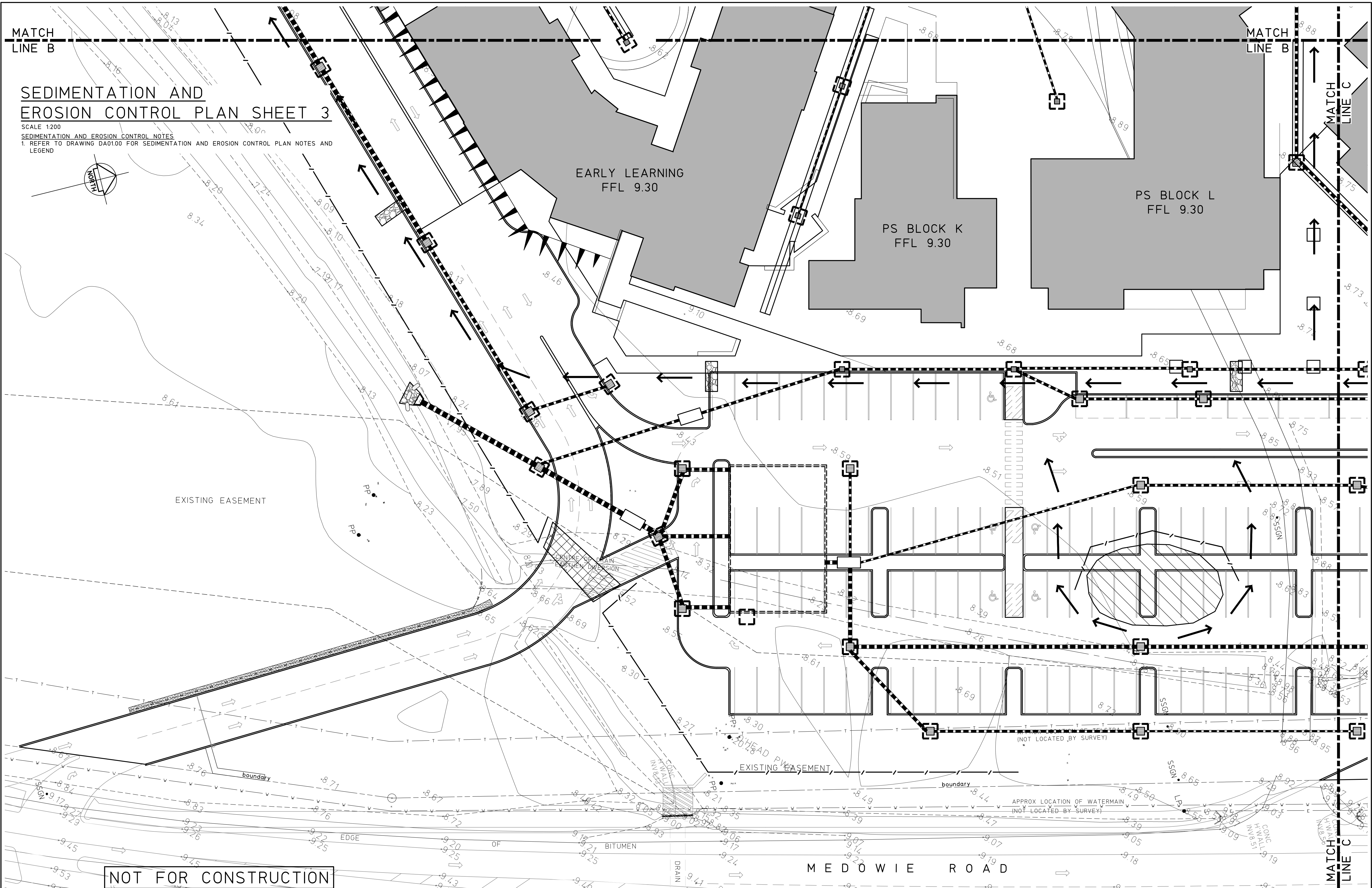
CLIENT  
CATHOLIC SCHOOLS OFFICE  
  
TITLE  
SEDIMENTATION AND  
EROSION CONTROL PLAN SHEET 2

PROJECT  
CATHERINE McAULEY CATHOLIC COLLEGE  
AT; LOT 412, DP 1063902,  
No.507 MEDOWIE ROAD,  
MEDOWIE

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FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm



MATCH  
LINE C

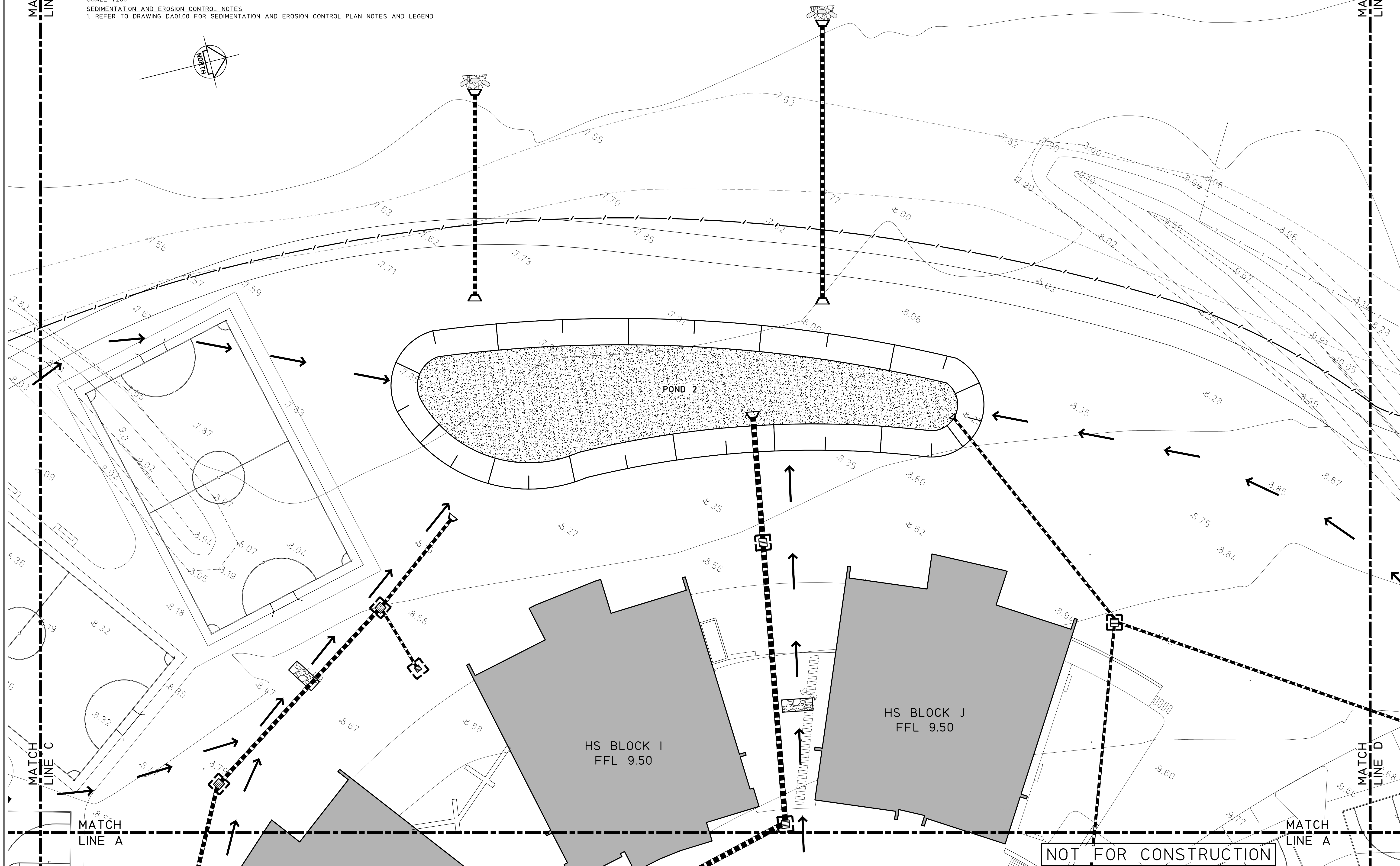
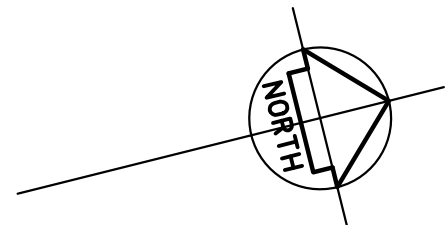
MATCH  
LINE D

# SEDIMENTATION AND EROSION CONTROL PLAN SHEET 4

SCALE 1:200

SEDIMENTATION AND EROSION CONTROL NOTES

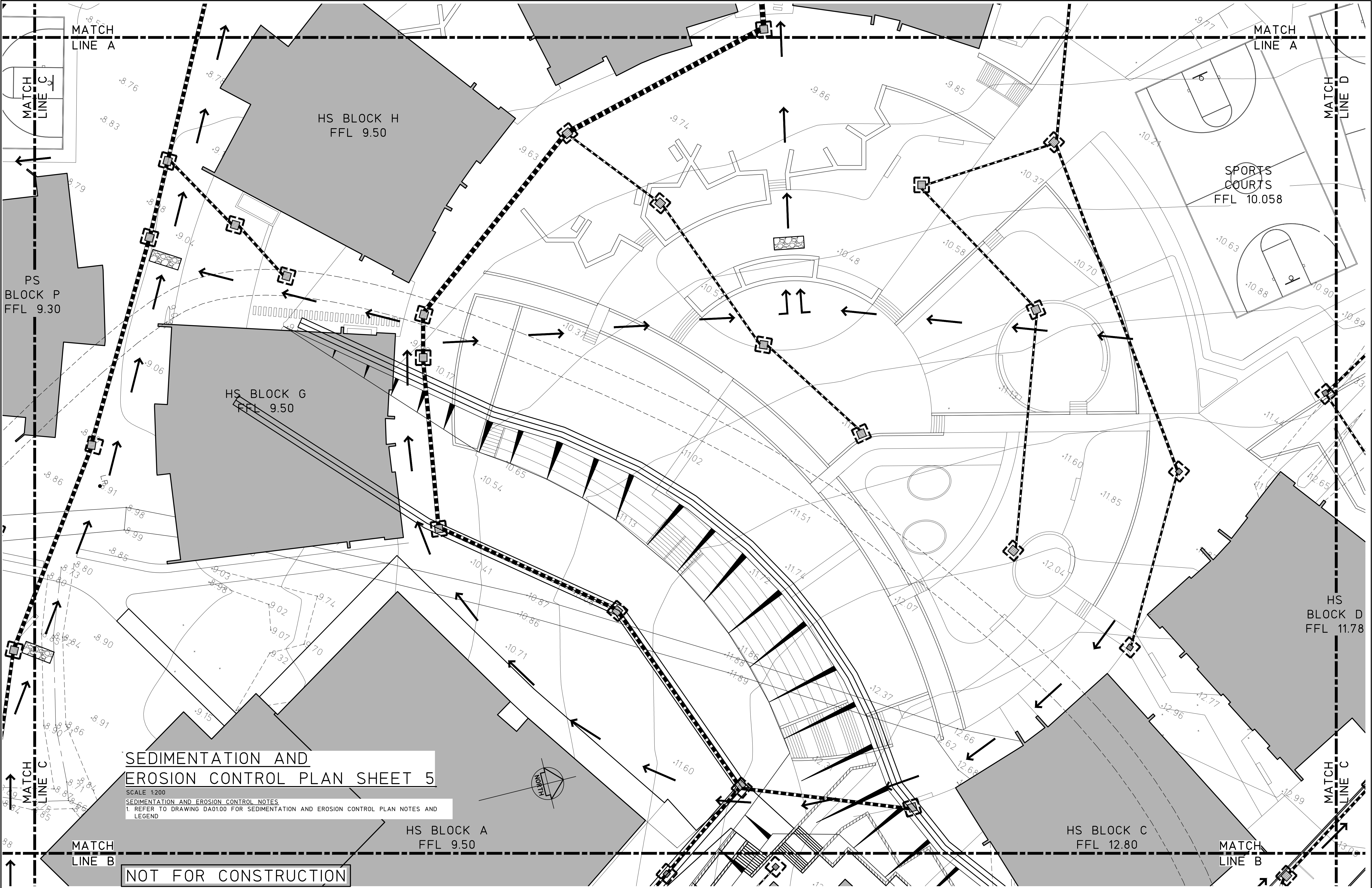
1. REFER TO DRAWING DA01.00 FOR SEDIMENTATION AND EROSION CONTROL PLAN NOTES AND LEGEND



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0	RESUBMITTED DEVELOPMENT APPLICATION	13.12.18								SCALES 1:200	JOB No 17-828	DRAWING No DA01.03	ISSUE 0
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FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm





SEDIMENTATION AND  
EROSION CONTROL PLAN SHEET 5

SCALE 1:200

SEDIMENTATION AND EROSION CONTROL NOTES

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HS BLOCK A  
FFL 9.50

HS BLOCK C  
FFL 12.80

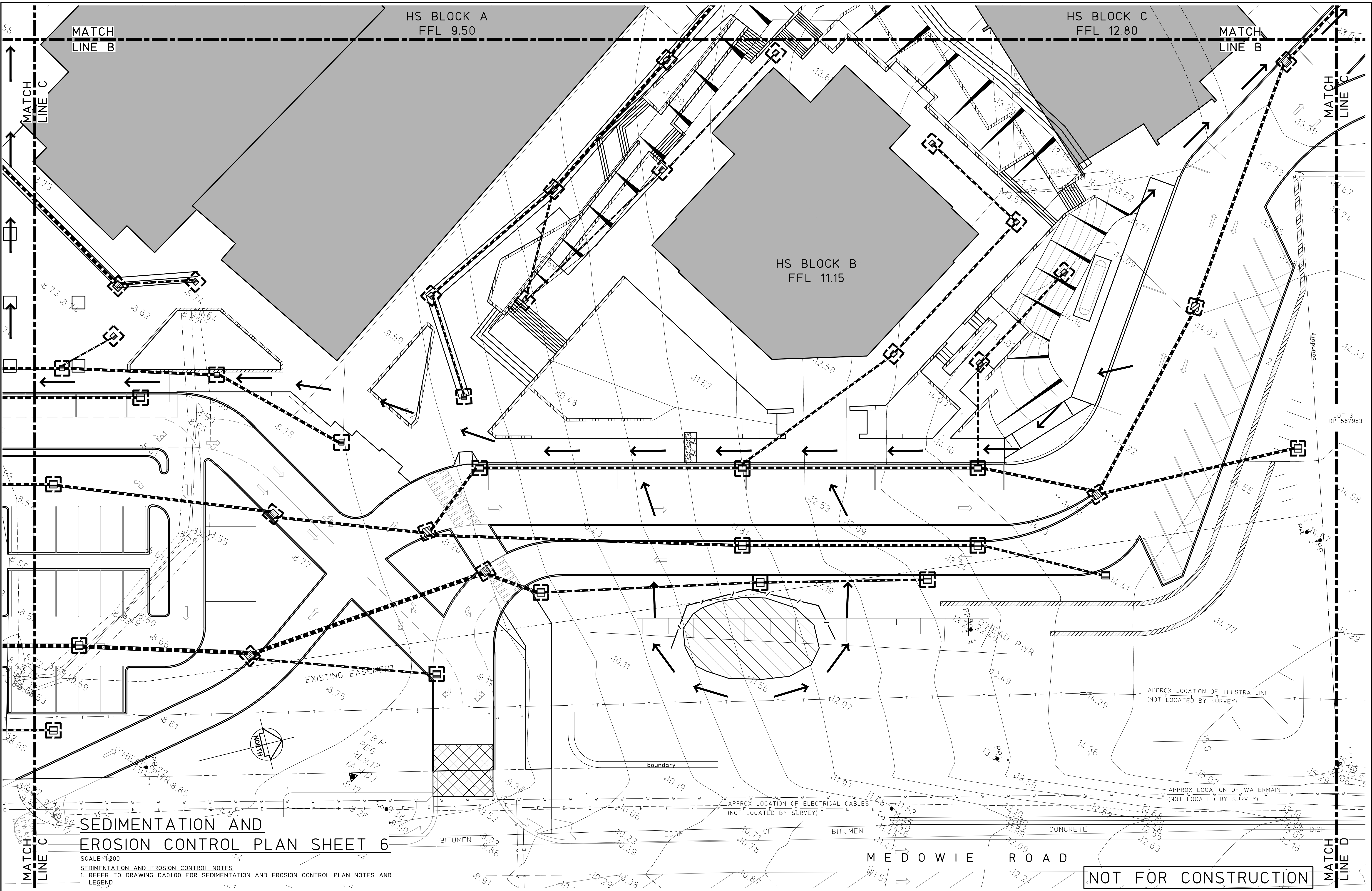
HS  
BLOCK D  
FFL 11.78

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FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm





**SEDIMENTATION AND  
EROSION CONTROL PLAN SHEET 6**

SCALE 1:200

**SEDIMENTATION AND EROSION CONTROL NOTES**

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**CLIENT**  
CATHOLIC SCHOOLS OFFICE

**TITLE**  
SEDIMENTATION AND  
EROSION CONTROL PLAN SHEET 6

**PROJECT**  
CATHERINE McAULEY CATHOLIC COLLEGE  
AT; LOT 412, DP 1063902,  
No.507 MEDOWIE ROAD,  
MEDOWIE

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SCALES 1:200	JOB No 17-828	DRAWING No DA01.05	ISSUE 0

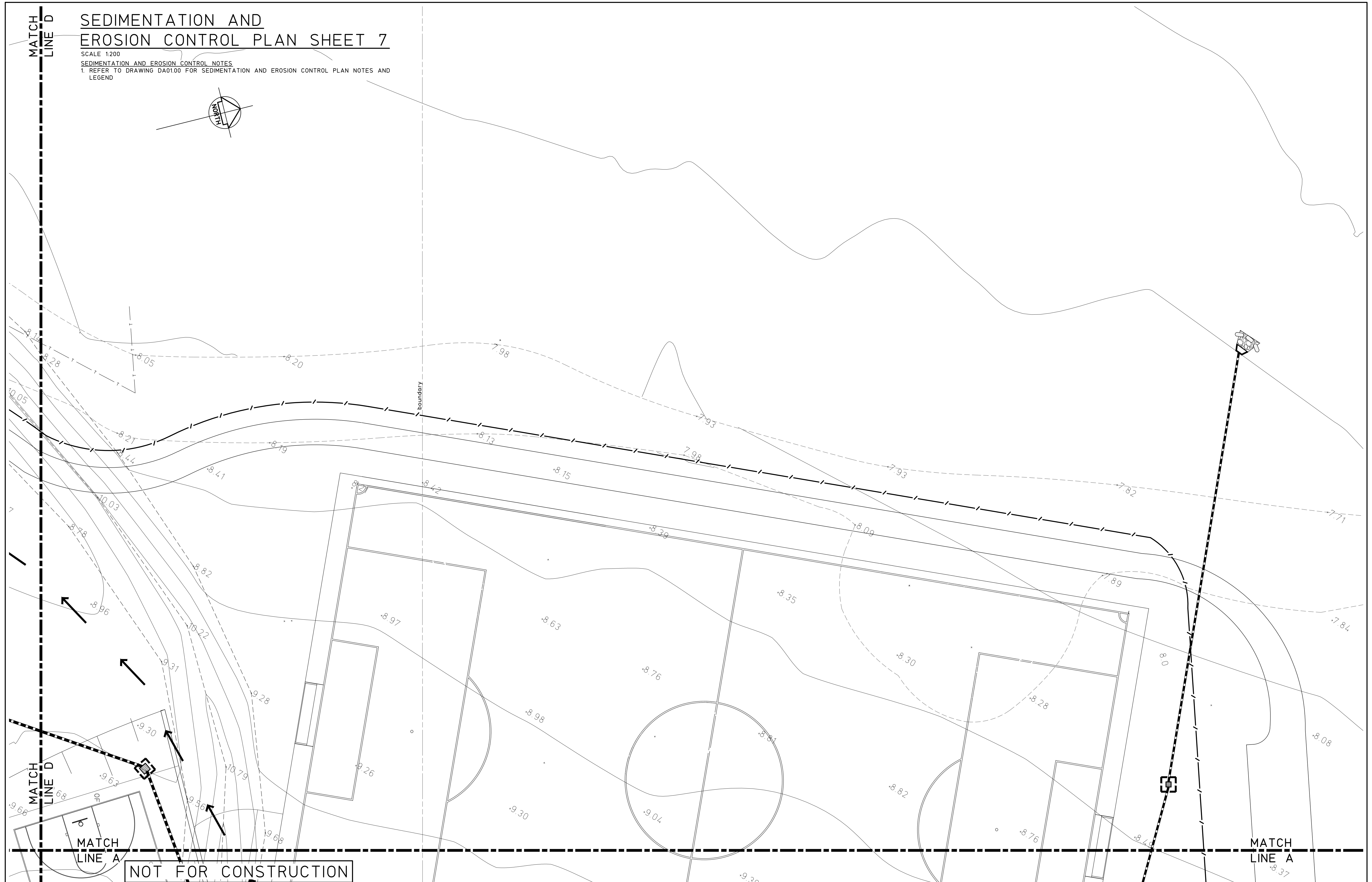
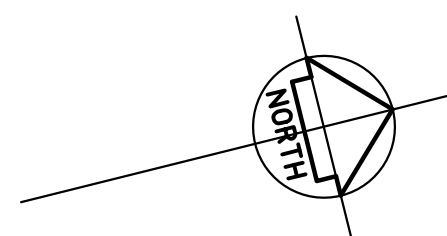
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SCALE 1:200

SEDIMENTATION AND EROSION CONTROL NOTES

1. REFER TO DRAWING DA01.00 FOR SEDIMENTATION AND EROSION CONTROL PLAN NOTES AND LEGEND

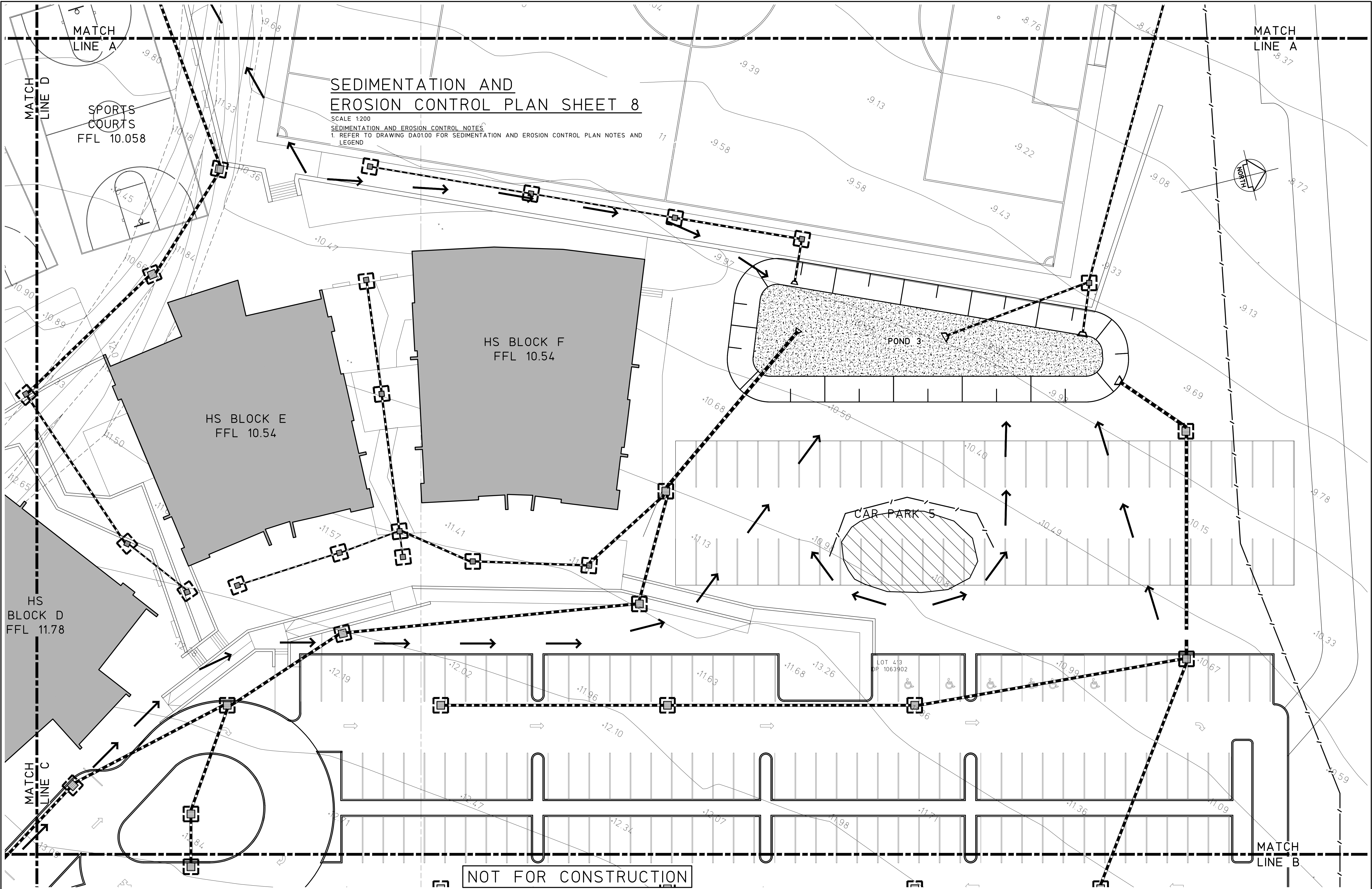


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ISSUE	REASON FOR ISSUE	DATE	DATE OF RELEASE	RESPONSIBLE PRINCIPAL SIGNATURE	ISSUE			SEDIMENTATION AND EROSION CONTROL PLAN SHEET 7		J.P.	ENGINEER M.S.	No in SET --	SHEET A1
										1:200	JOB No 17-828	DRAWING No DA01.06	ISSUE 0

FULL SIZE ON ORIGINAL      0      1      2      3      4      5      6      7      8      9      10      11      12      13      14      15 cm





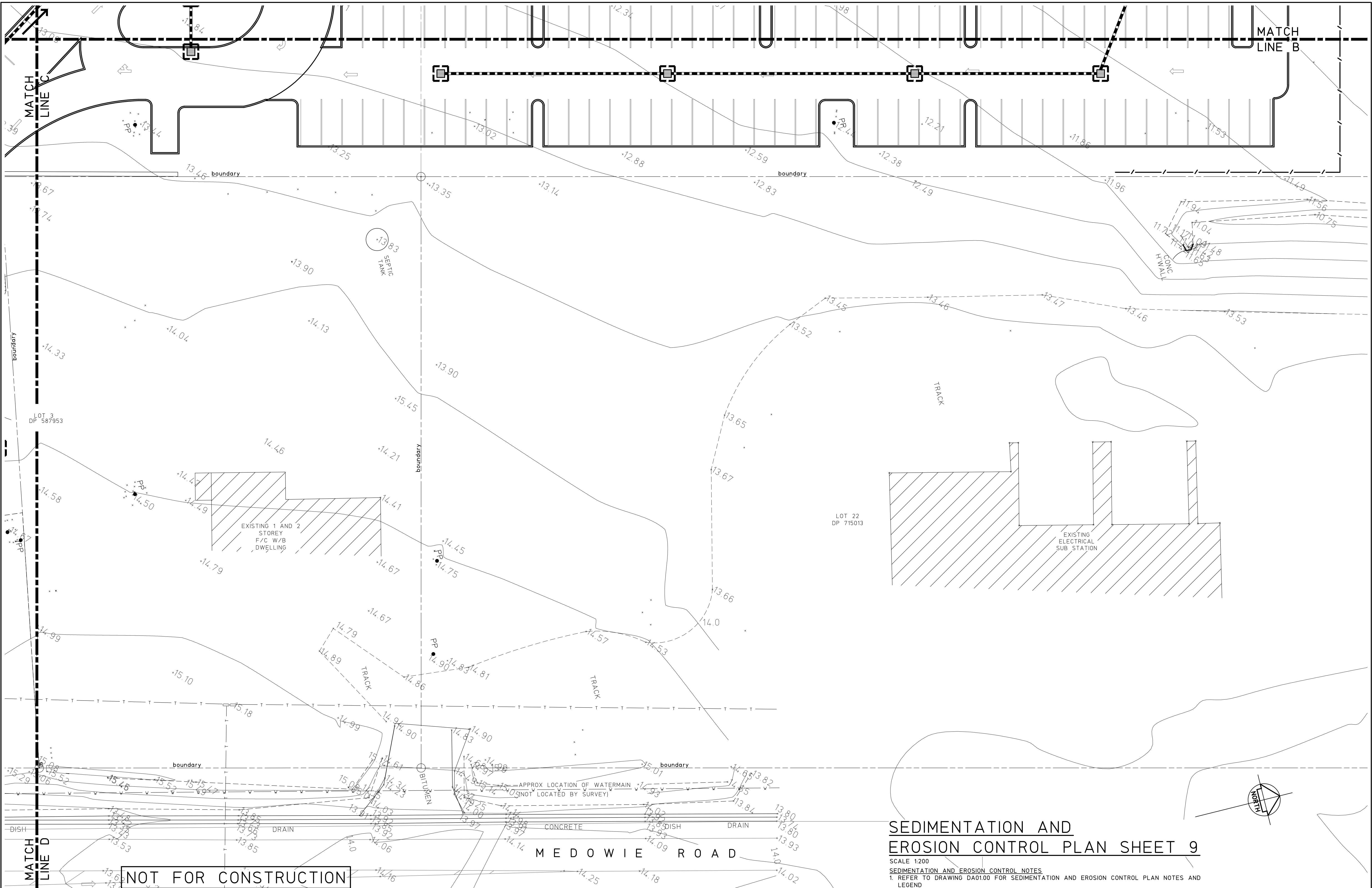
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0 RESUBMITTED DEVELOPMENT APPLICATION		13-12-18				TITLE SEDIMENTATION AND EROSION CONTROL PLAN SHEET 8				SCALES 1:200	JOB No 17-828	DRAWING No DA01.07	ISSUE 0
ISSUE		REASON FOR ISSUE		DATE		DATE OF RELEASE		RESPONSIBLE PRINCIPAL SIGNATURE		ISSUE			



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FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm





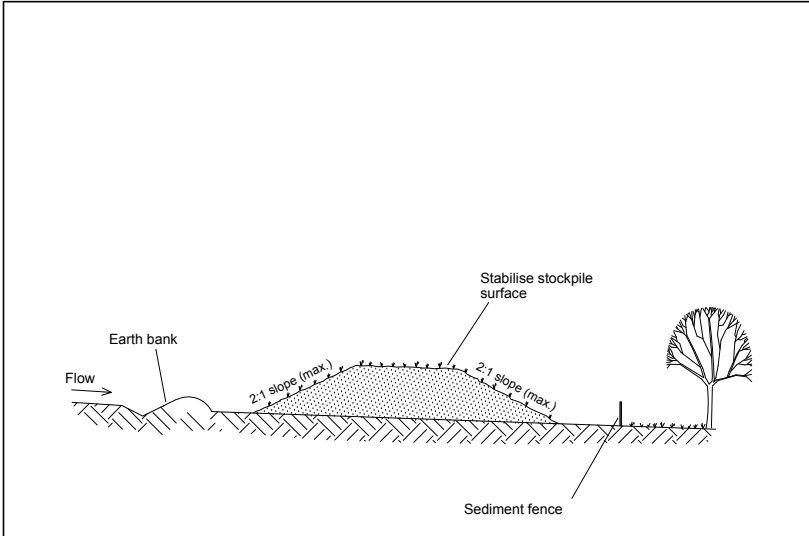
**SEDIMENTATION AND  
EROSION CONTROL PLAN SHEET 9**

SCALE 1:200  
SEDIMENTATION AND EROSION CONTROL NOTES  
1. REFER TO DRAWING DA01.00 FOR SEDIMENTATION AND EROSION CONTROL PLAN NOTES AND  
LEGEND

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0			RESUBMITTED DEVELOPMENT APPLICATION			13.12.18			TITLE			DRAWN		
ISSUE			REASON FOR ISSUE			DATE			SEDIMENTATION AND EROSION CONTROL PLAN SHEET 9			J.P.		
						DATE OF RELEASE						ENGINEER		
						RESPONSIBLE PRINCIPAL SIGNATURE						M.S.		
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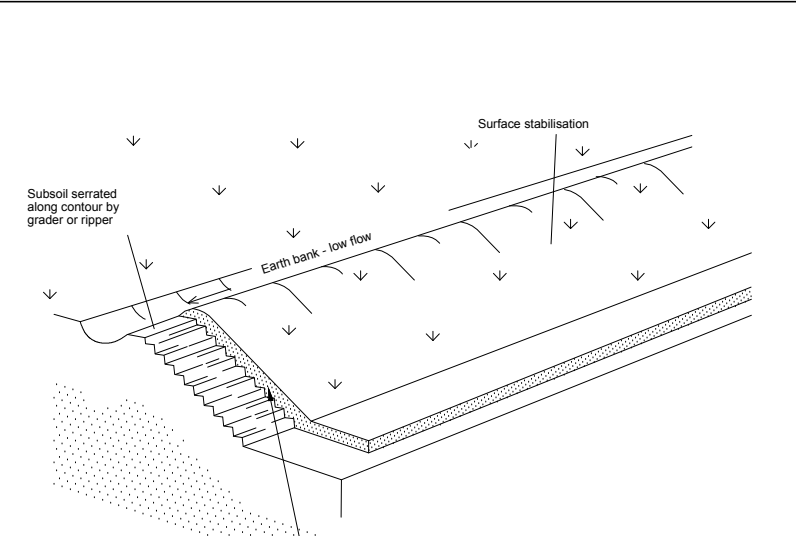
FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm





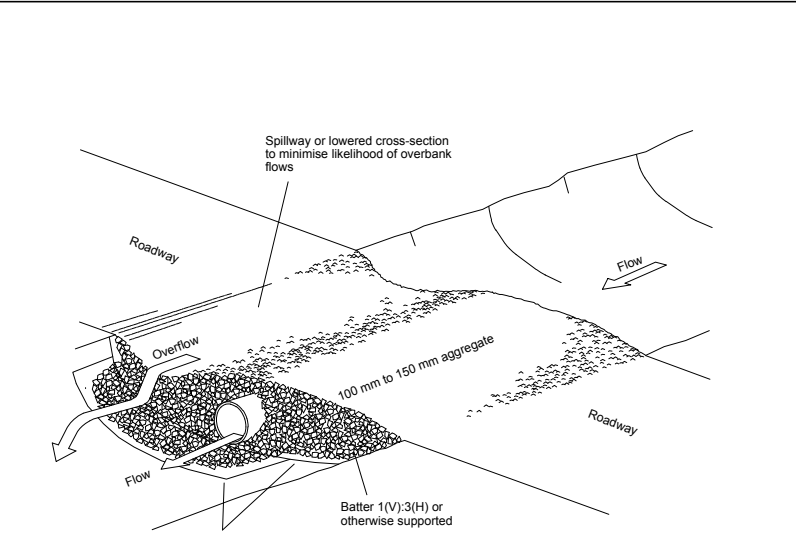
- Construction Notes**
- Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
  - Construct on the contour as low, flat, elongated mounds.
  - Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
  - Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
  - Construct earth banks (Standard Drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope.

STOCKPILES SD 4-1



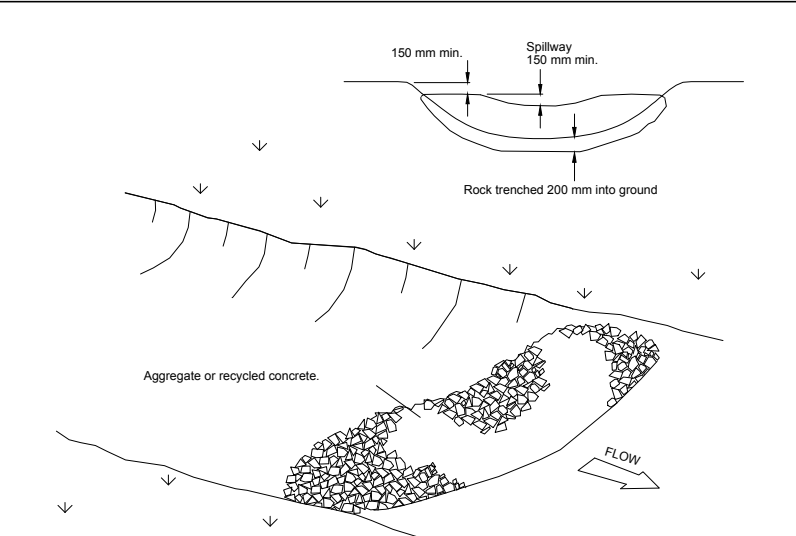
- Construction Notes**
- Scarify the ground surface along the line of the contour to a depth of 50 mm to 100 mm to break up any hardsetting surfaces and to provide a good bond between the respread material and subsoil.
  - Add soil ameliorants as required by the ESCP or SWMP.
  - Rip to a depth of 300 mm if compacted layers occur.
  - Where possible, replace topsoil to a depth of 40 to 60 mm on lands where the slope exceeds 4(H):1(V) and to at least 75 mm on lower gradients.

REPLACING TOPSOIL SD 4-2



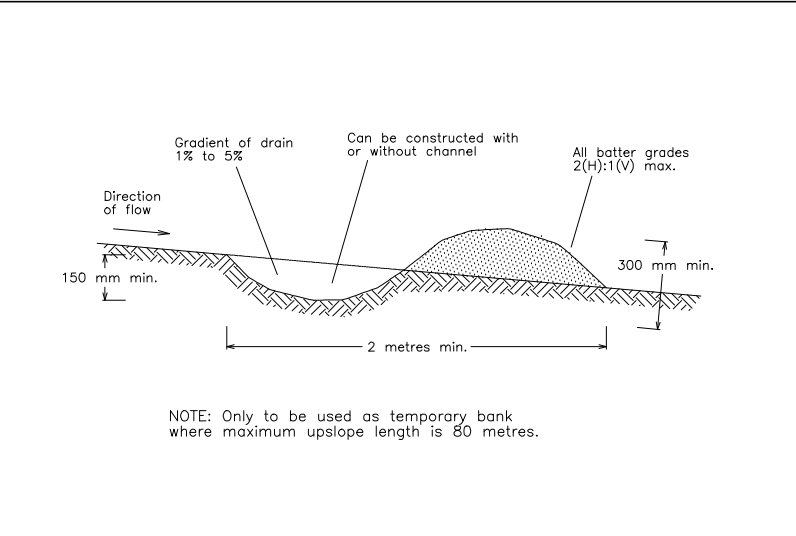
- Construction Notes**
- Prohibit all traffic until the access way is constructed.
  - Strip any topsoil and place a needle-punched textile over the base of the crossing.
  - Place clean, rigid, non polluting aggregate or gravel in the 100 mm to 150 mm size class over the fabric to a minimum depth of 200 mm.
  - Provide a 3-metre wide carriageway with sufficient length of culvert pipe to allow less than a 3(H): 1 (V) slope on side batters.
  - Install a lower section to act as an emergency spillway in greater than 150 mm lower than the side batters.
  - Ensure that culvert outlets extend beyond the toe of fill embankments.

TEMPORARY WATERWAY CROSSING SD 5-1



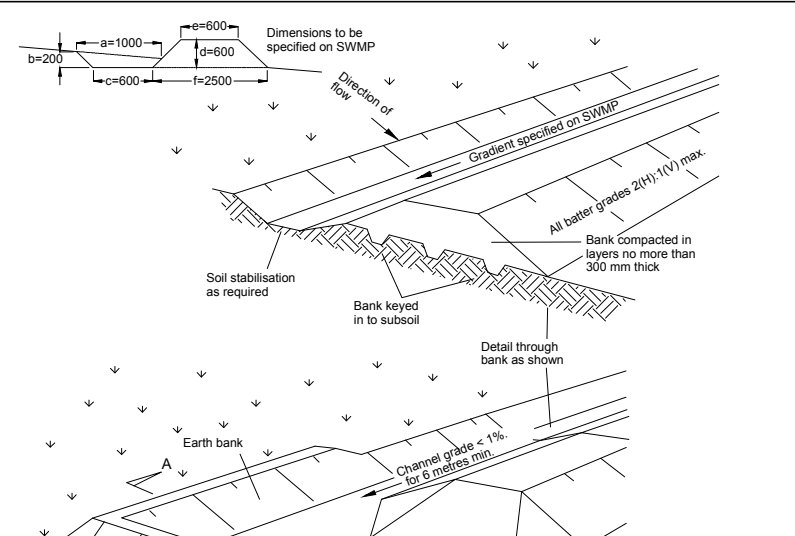
- Construction Notes**
- Check dams can be built with various materials, including rocks, logs, sandbags and straw bales. The maintenance program should ensure their integrity is retained, especially where constructed with straw bales. In the case of bales, this might require their replacement each two to four months.
  - Trench the check dam 200 mm into the ground across its whole width. Where rock is used, fill the trenches to at least 100 mm above the ground surface to reduce the risk of undercutting.
  - Normally, their maximum height should not exceed 600 mm above the gully floor. The centre should act as a spillway, being at least 150 mm lower than the side batters.
  - Space the dams so the toe of the upstream dam is level with the spillway of the next downstream dam.

ROCK CHECK DAM SD 5-4



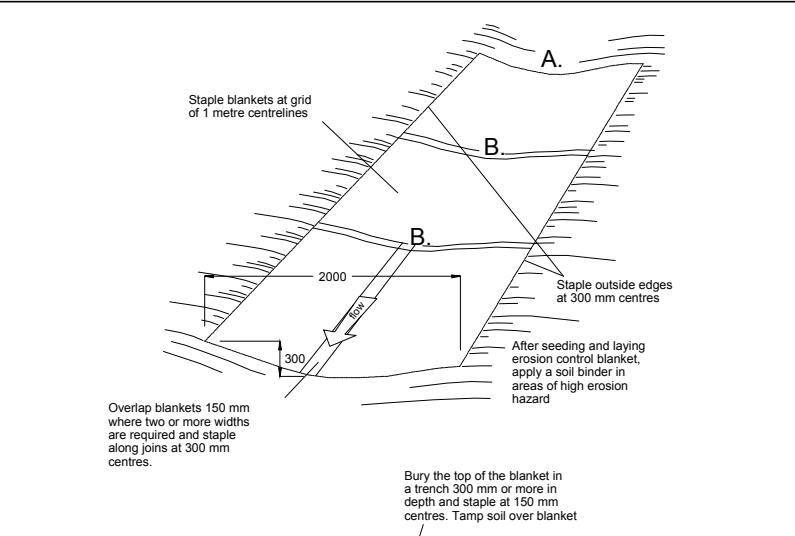
- Construction Notes**
- Build with gradients between 1 percent and 5 percent.
  - Avoid removing trees and shrubs if possible - work around them.
  - Ensure the structures are free of projections or other irregularities that could impede water flow.
  - Build the drains with circular, parabolic or trapezoidal cross sections, not V-shaped.
  - Ensure the banks are properly compacted to prevent failure.
  - Complete permanent or temporary stabilisation within 10 days of construction.

EARTH BANK (LOW FLOW) SD 5-5



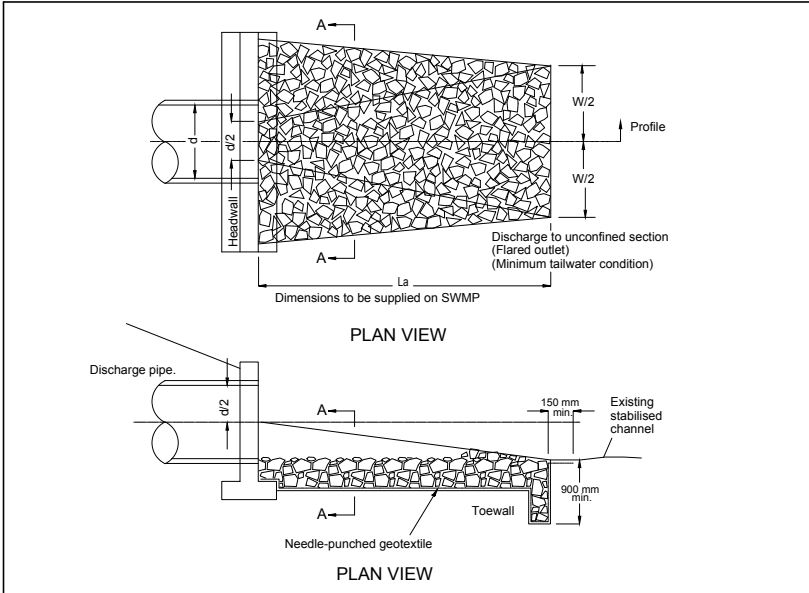
- Construction Notes**
- Construct at the gradient specified on the ESCP or SWMP, normally between 1 and 5 percent.
  - Avoid removing trees and shrubs if possible - work around them.
  - Ensure the structures are free of projections or other irregularities that could impede water flow.
  - Build the drains with circular, parabolic or trapezoidal cross sections, not V-shaped, at the dimensions shown on the SWMP.
  - Ensure the banks are properly compacted to prevent failure.
  - Complete permanent or temporary stabilisation within 10 days of construction following Table 5.2 in Landcom (2004).
  - Where discharging to erodible lands, ensure they outlet through a properly constructed level spreader.
  - Construct the level spreader at the gradient specified on the ESCP or SWMP, normally less than 1 percent or level.
  - Where possible, ensure they discharge waters onto either stabilised or undisturbed disposal sites within the same subcatchment area from which the water originated. Approval might be required to discharge into other subcatchments.

EARTH BANK (HIGH FLOWS) SD 5-6



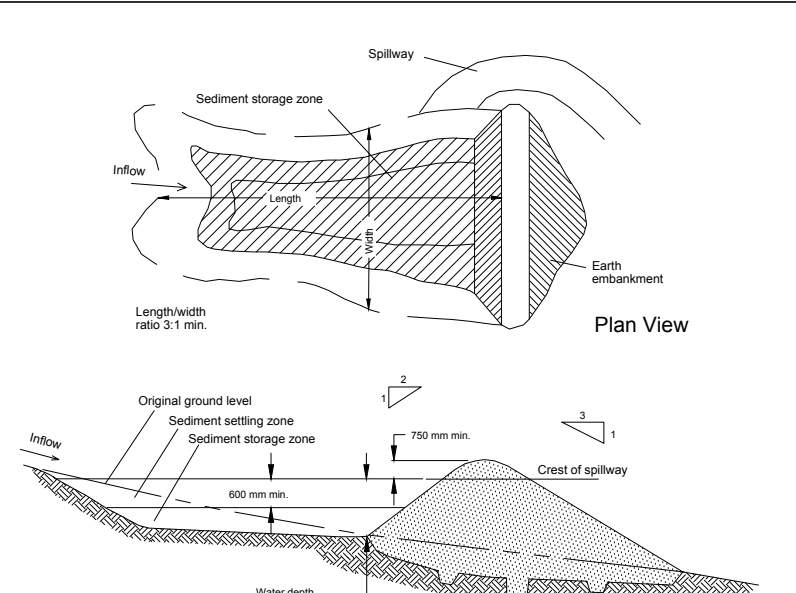
- Construction Notes**
- Remove any rocks, clods, sticks or grass from the surface before laying matting.
  - Ensure that topsoil is at least 75 mm deep.
  - Complete fertilising and seeding before laying the matting.
  - Ensure fabric will be continuously in contact with the soil by grading the surface carefully first.
  - Lay the fabric in "shingle-fashion", with the end of each upstream roll overlapping those downstream. Ensure each roll is anchored properly at its upslope end.
  - Ensure that the full width of flow in the channel is covered by the matting up to the design storm event, usually in the 10-year ARI time of concentration storm event.
  - Divert water from the structure until vegetation is stabilised properly.

RECP : CONCENTRATED FLOW SD 5-7



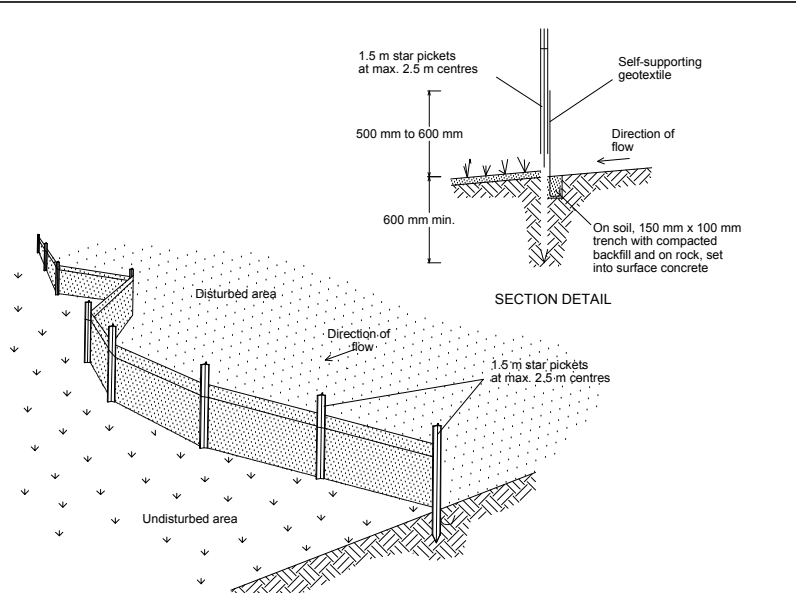
- Construction Notes**
- Compact the subgrade fill to the density of the surrounding undisturbed material.
  - Prepare a smooth, even foundation for the structure that will ensure that the needle-punched geotextile does not sustain serious damage when covered with rock.
  - Should any minor damage to the geotextile occur, repair it before spreading any aggregate. For repairs, patch one piece of fabric over the damage, making sure that all joints and patches overlap more than 300 mm.
  - Lay rock following the drawing, according to Table 5.2 of Landcom (2004) and with a minimum diameter of 75 mm.
  - Ensure that any concrete or spiral used for the energy dissipater or the outlet protection conforms to the grading limits specified on the SWMP.

ENERGY DISSIPATER SD 5-8



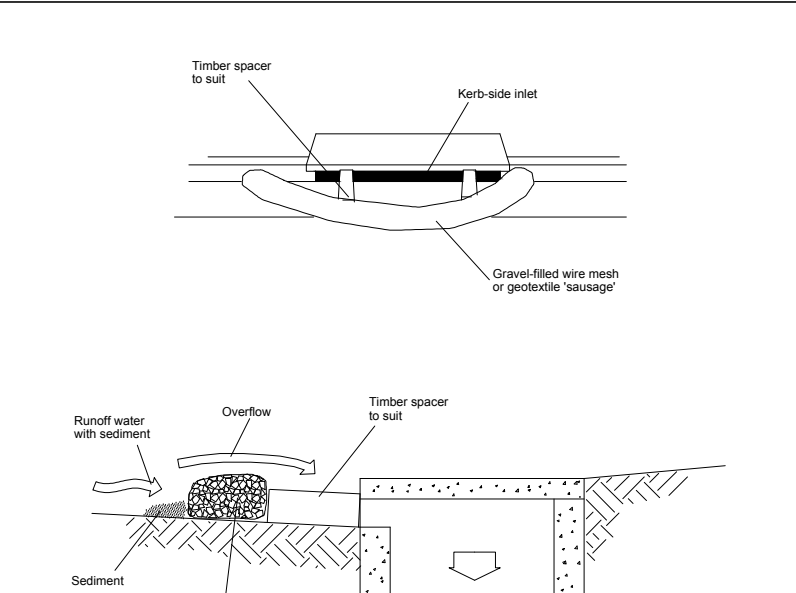
- Construction Notes**
- Remove all vegetation and topsoil from under the dam wall and from within the storage area.
  - Construct a cut-off trench 500 mm deep and 1,200 mm wide along the centreline of the embankment extending to a point on the gully wall level with the riser crest.
  - Maintain the trench free of water and recompact the materials with equipment as specified in the SWMP to 95 per cent Standard Proctor Density.
  - Select fill following the SWMP that is free of roots, wood, rock, large stone or foreign material.
  - Prepare the site under the embankment by ripping to at least 100 mm to help bond compacted fill to the existing substrate.
  - Spread the fill in 100 mm to 150 mm layers and compact it at optimum moisture content following the SWMP.
  - Construct the emergency spillway.
  - Rehabilitate the structure following the SWMP.

EARTH BANK - WET (APPLIES TO TYPE D' AND TYPE F' SOILS ONLY) SD 6-4



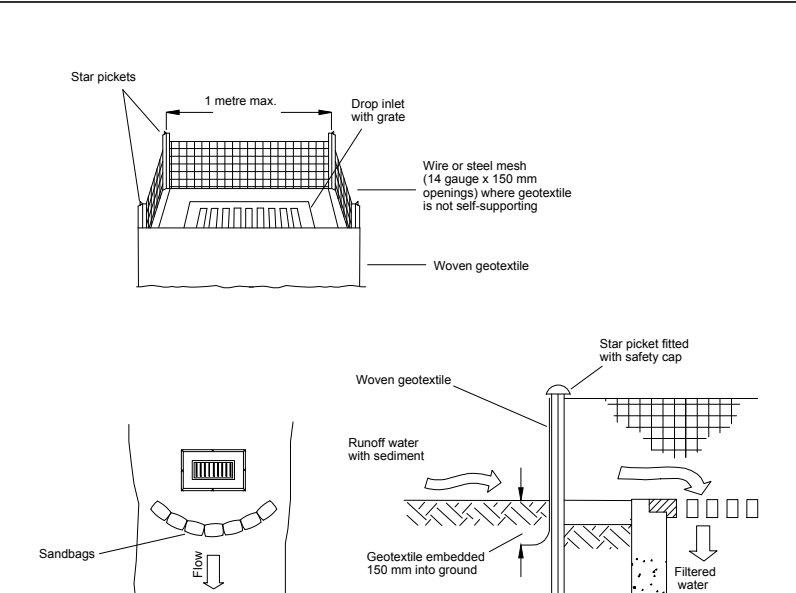
- Construction Notes**
- Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns as shown in the drawing to limit the catchment area of any one section. The catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event.
  - Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.
  - Drive 1.5 metre long star pickets into ground at 2.5 metre intervals (max) at the downslope edge of the trench. Ensure any star pickets are fitted with safety caps.
  - Fix self-supporting geotextile to the upslope side of the posts ensuring it goes to the base of the trench. Fix the geotextile with wire ties or as recommended by the manufacturer. Only use geotextile specifically produced for sediment fencing. The use of shade cloth for this purpose is not satisfactory.
  - Join sections of fabric at a support post with a 150-mm overlap.
  - Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

SEDIMENT FENCE SD 6-8



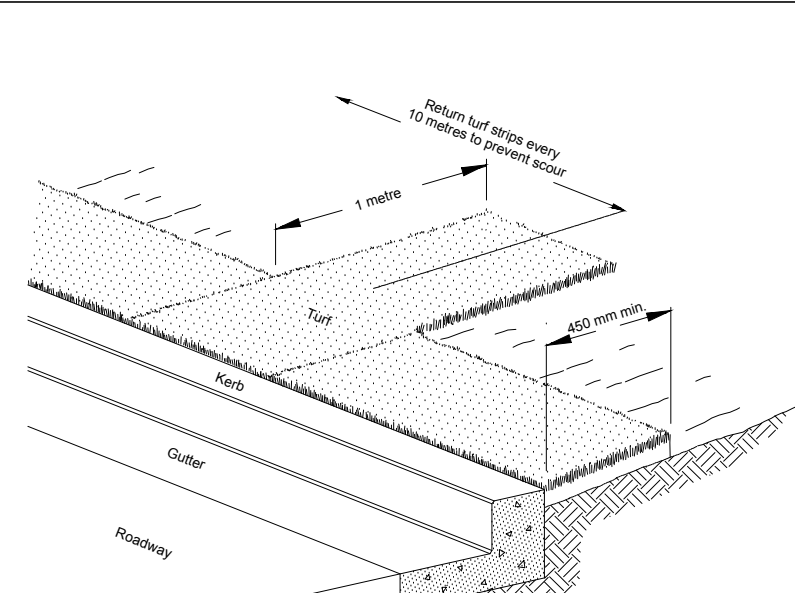
- Construction Notes**
- Install filters to kerb inlets only at sag points.
  - Fabricate a sleeve made from geotextile or wire mesh longer than the length of the inlet pit and fit it with 25 mm to 50 mm gravel.
  - Form an elliptical cross-section about 150 mm high x 400 mm wide.
  - Place the filter at the opening leaving at least a 100-mm space between it and the kerb inlet. Maintain the opening with spacer blocks.
  - Form a seal with the kerb to prevent sediment bypassing the filter.
  - Sandbags filled with gravel can substitute for the mesh or geotextile providing they are placed so that they firmly abut each other and sediment-laden waters cannot pass between.

MESH AND GRAVEL INLET FILTER SD 6-11



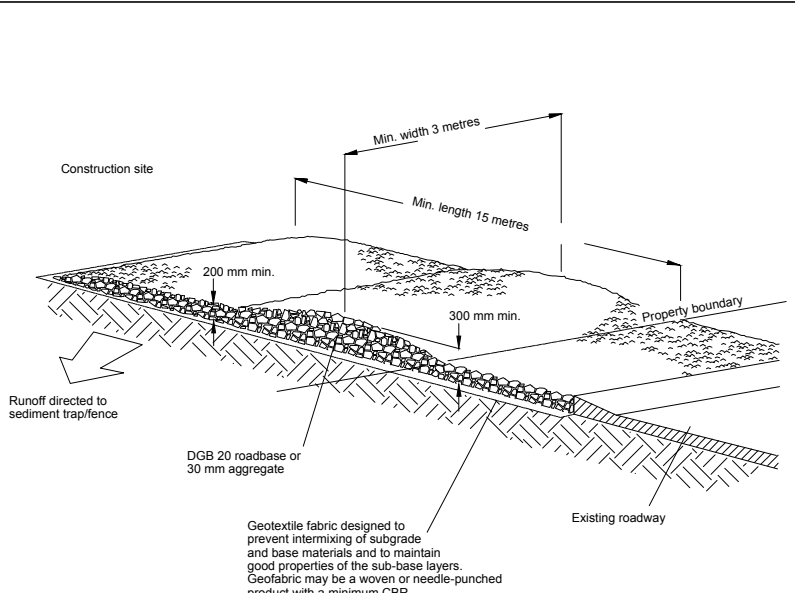
- Construction Notes**
- Fabricate a sediment barrier made from geotextile or straw bales.
  - Follow Standard Drawing 6-8 for installation procedures for the straw bales or geotextile. Reduce the picket spacing to 1 metre centres.
  - In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing.
  - Do not cover the inlet with geotextile unless the design is adequate to allow for all waters to bypass it.

GEOTEXTILE INLET FILTER SD 6-12



- Construction Notes**
- Install a 450 mm minimum wide roll of turf on the footpath next to the kerb and at the same level as the top of the kerb.
  - Lay 1.4 metre long turf strips normal to the kerb every 10 metres.
  - Rehabilitate disturbed soil behind the turf strip following the ESCP/SWMP.

KERBSIDE TURF STRIP SD 6-13



- Construction Notes**
- Strip the topsoil, level the site and compact the subgrade.
  - Cover the area with needle-punched geotextile.
  - Construct a 200 mm thick pad over the geotextile using road base or 30 mm aggregate.
  - Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres wide.
  - Where a sediment fence joins onto the stabilised access, construct a hump in the stabilised access to divert water to the sediment fence.

STABILISED SITE ACCESS SD 6-14

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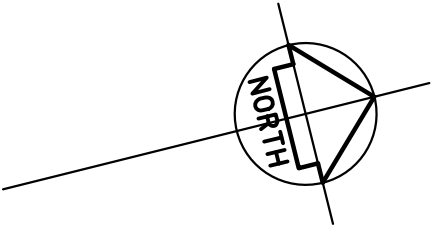
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0 RESUBMITTED DEVELOPMENT APPLICATION		13.12.18										SCALES N.T.S.	JOB No 17-828	DRAWING No DA01.50	ISSUE 0
ISSUE	REASON FOR ISSUE	DATE	DATE OF RELEASE	RESPONSIBLE PRINCIPAL SIGNATURE		ISSUE									

FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm



STORMWATER PLAN SHEET 1

- SCALE 1:200
- STORMWATER NOTES**
1. ALL WORKS TO BE IN ACCORDANCE WITH AS3500.3.
2. ALL PIPES TO HAVE A 1% MINIMUM FALL U.N.O.
3. ALL DOWNPIPES (DP) TO BE SPECIFIED BY ARCHITECT. FOR EXACT LOCATION OF DOWNPIPES, REFER TO ARCHITECTURAL DRAWINGS.
4. ALL PIPES TO BE UPVC U.N.O.
5. ALL UPVC PIPES TO BE SEWER GRADE AND TO AS1260.
6. ALL REINFORCED CONCRETE PIPES (RCP) TO BE SPIGOT AND SOCKET TYPE WITH RUBBER RINGS CLASS 2 TO AS4058.
7. PITS TO BE CI&D REINFORCED PRE-CAST CONCRETE PITS OR EQUIVALENT PROPRIETARY PITS.
8. ALL LIDS AND GRATES TO BE PROPRIETARY HEAVY DUTY IN AREAS OF VEHICULAR TRAFFIC, LIGHT DUTY ELSEWHERE, IN ACCORDANCE WITH AS3996.
9. MINIMUM COVER TO STORMWATER PIPES TO BE AS FOLLOW U.N.O:  
TRAFFICABLE AREAS - 450mm, LANDSCAPED AREAS - 300mm.  
PIPES TO BE CONCRETE ENCASED IF MINIMUM COVERS CANNOT BE OBTAINED IN TRAFFICABLE AREAS, REFER TO CLAUSE 3.8 AS3500.3.  
ALTERNATIVELY USE UPVC SEWER GRADE PIPES UNDER ROAD AND BUILDINGS.
10. PROVIDE 100Φ AG DRAINS IN FILTER SOCKS TO ALL LANDSCAPED AREAS, PLANTER BEDS AND STORMWATER PIPE TRENCHES.  
ALL AG DRAINS TO BE BEDDED IN COARSE AGGREGATE AND TO BE CONNECTED TO STORMWATER SYSTEM.
11. ALL PITS, DETENTION TANKS AND PROPRIETARY POLLUTION CONTROL DEVICES TO BE CLEANED OF SEDIMENT AT 3 MONTH MAXIMUM INTERVALS.
12. ALL EXISTING SERVICES TO BE LOCATED PRIOR TO COMMENCEMENT OF WORK.
13. ANY FOOTPATHS, KERB AND GUTTER OR ROADWAY DISTURBED BY WORKS TO BE REINSTATED TO CURRENT COUNCIL REQUIREMENTS.
14. PROVIDE ACCESS LADDER TO TANK AS REQUIRED, REFER TO AS1657.



LEGEND

- DENOTES STORMWATER PIPE
- DENOTES EXISTING CONTOUR
- DENOTES EXISTING LEVELS
- \* DENOTES DESIGN SPOT LEVELS
- K1 DENOTES 120 HIGH KERB U.N.O.
- K2 DENOTES ROLLED KERB TO ARCH DETAILS
- RW1 DENOTES RETAINING WALL TO ARCH DETAILS
- LRW DENOTES LANDSCAPE RETAINING WALL TO ARCH DETAILS
- DENOTES DIRECTION OF SURFACE FLOWS
- DENOTES ECOSOL 4900 OR EQUIVALENT TO MANUFACTURERS SPECIFICATIONS AND DETAILS

**NOTE**  
ALL CARPARK PITS TO HAVE ECOSOL PIT INSERTS TO CAPTURE HYDROCARBENS PRIOR TO DETENTION AND GPT FOR ADDITIONAL TREATMENT

**NOTE**  
ALL ROOF WATER TO CONNECT TO AT WITH FIRST FLUSH DEVICE TYPICAL

**NOTE**  
ADDITIONAL PITS IN LANDSCAPE AREAS T.B.C. DURING DETAILED DESIGN PHASE

PROVIDE 4000 LITRE SLIMLINE WATER STORAGE TANKS STORING ROOF RAINWATER TO MANUFACTURERS SPECIFICATION TO EACH BLOCK. TANK SHALL BE FITTED WITH A FIRST FLUSH SYSTEM, PUMP TO SUPPLY TOILETS AND LAUNDRIES AND A DIVERSION SWITCH TO MAINS SUPPLY ON TANK BEING EMPTY. BACK FLOW PREVENTION TO MAINS WATER SHALL BE PROVIDED. TANK TO OVERFLOW TO STORMWATER SYSTEM. LOCATIONS TO ARCH DETAILS

ARCHITECT TO PROVIDE ADVICE ON PREFERRED RAINWATER TANK LOCATIONS

HEADWALL AND ROCK MATTRESS I.L. T.B.C. BASED ON ADDITIONAL SURVEY

HEADWALL AND ROCK MATTRESS I.L. T.B.C. BASED ON ADDITIONAL SURVEY

MATCH LINE A

NOT FOR CONSTRUCTION

MATCH LINE C

MATCH LINE C

MATCH LINE A

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				THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS ENDORSED BELOW										DRAWN J.P.	ENGINEER M.S.	No in SET --	SHEET A1
0	RESUBMITTED DEVELOPMENT APPLICATION		13.12.18														
ISSUE	REASON FOR ISSUE		DATE	DATE OF RELEASE	RESPONSIBLE PRINCIPAL SIGNATURE		ISSUE										

FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm



MATCH  
LINE A


STORMWATER PLAN SHEET 2

SCALE 1:200

STORMWATER NOTES

1. REFER TO DRAWING DA02.00 FOR STORMWATER NOTES  
2. REFER TO DRAWING DA02.08 FOR PIT SCHEDULE



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								TITLE STORMWATER PLAN SHEET 2				SCALES 1:200		JOB No 17-828		DRAWING No DA02.01		ISSUE 0	
0		RESUBMITTED DEVELOPMENT APPLICATION		13.12.18															
ISSUE		REASON FOR ISSUE		DATE		DATE OF RELEASE		RESPONSIBLE PRINCIPAL SIGNATURE		ISSUE									

FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm



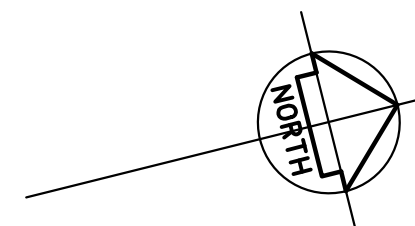
STORMWATER PLAN SHEET 3

SCALE 1:200

STORMWATER NOTES

1. REFER TO DRAWING DA02.00 FOR STORMWATER NOTES

2. REFER TO DRAWING DA02.08 FOR PIT SCHEDULE



EARLY LEARNING  
FFL 9.30

PS BLOCK K  
FFL 9.30

~~PS BLOCK L~~  
~~FFL 9.30~~

EXISTING EASEMENT

PROVIDE CULVERT WITH-  
PROPRIETARY HEADWALLS  
AT BOTH SIDES  
REFER TO DETAILS

AG LINE FROM BIOSWALE TO  
DIVERT TO EXISTING SWALE

LOCATION AND EXISTING  
LEVELS TO BE CONFIRMED  
PRIOR TO CONSTRUCTION  
OF PROPOSED CULVERT


DETENTION  
TANK  
11000  
TYPICAL

SPILL WAY

EXISTING EASEMENT

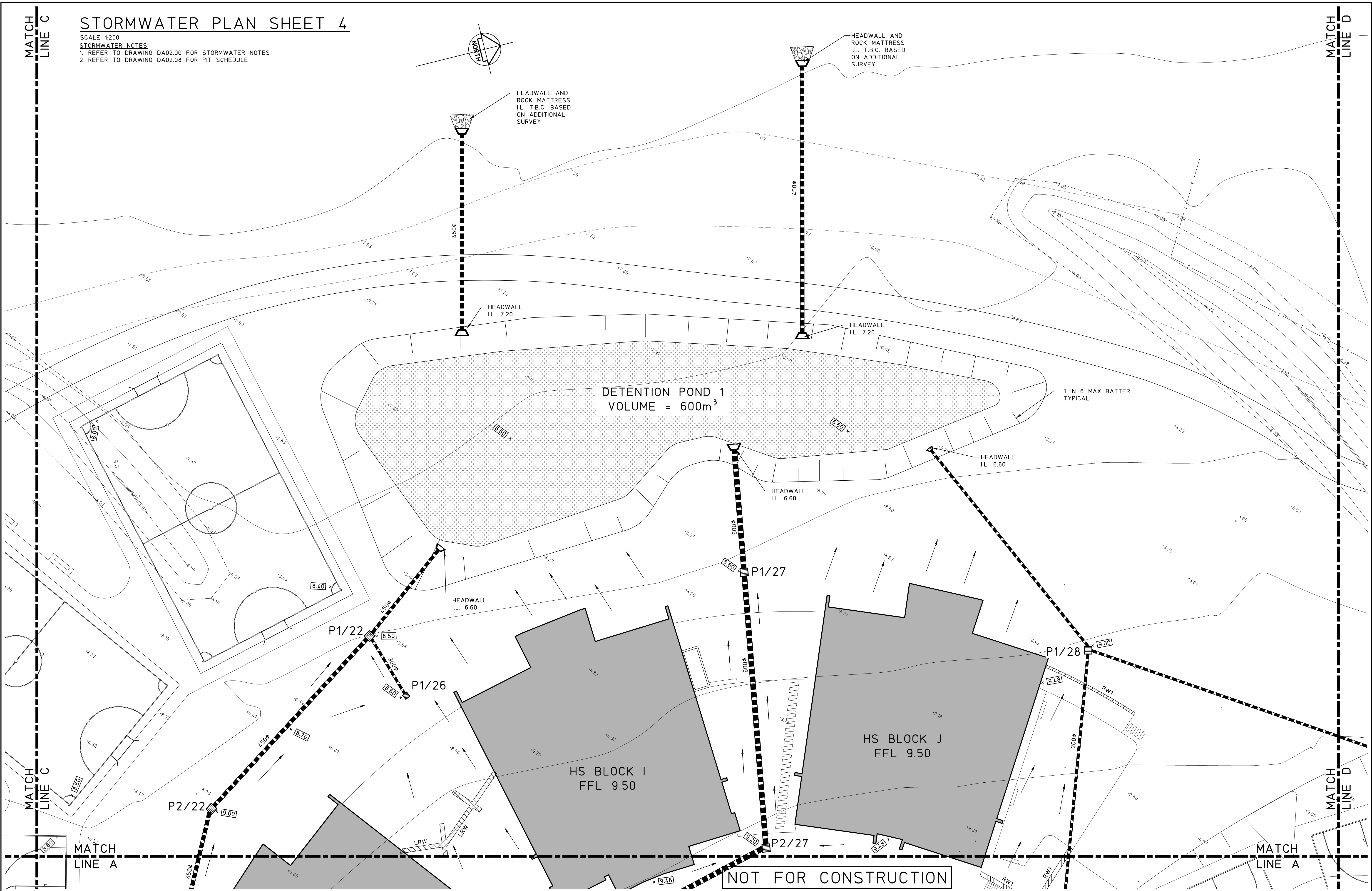
APPROX LOCATION OF WATER  
(NOT LOCATED BY SURVEY)

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0	RESUBMITTED	DEVELOPMENT	APPLICATION	13.12.18						TITLE STORMWATER PLAN SHEET 3				SCALES 1:200		JOB No 17-828		DRAWING No DA02.02		ISSUE 0		
ISSUE	REASON FOR ISSUE			DATE	DATE OF RELEASE	RESPONSIBLE PRINCIPAL SIGNATURE		ISSUE														

FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm





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0	RESUBMITTED DEVELOPMENT APPLICATION	13.12.18												
ISSUE	REASON FOR ISSUE	DATE	DATE OF RELEASE	RESPONSIBLE PRINCIPAL SIGNATURE		ISSUE								

FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm

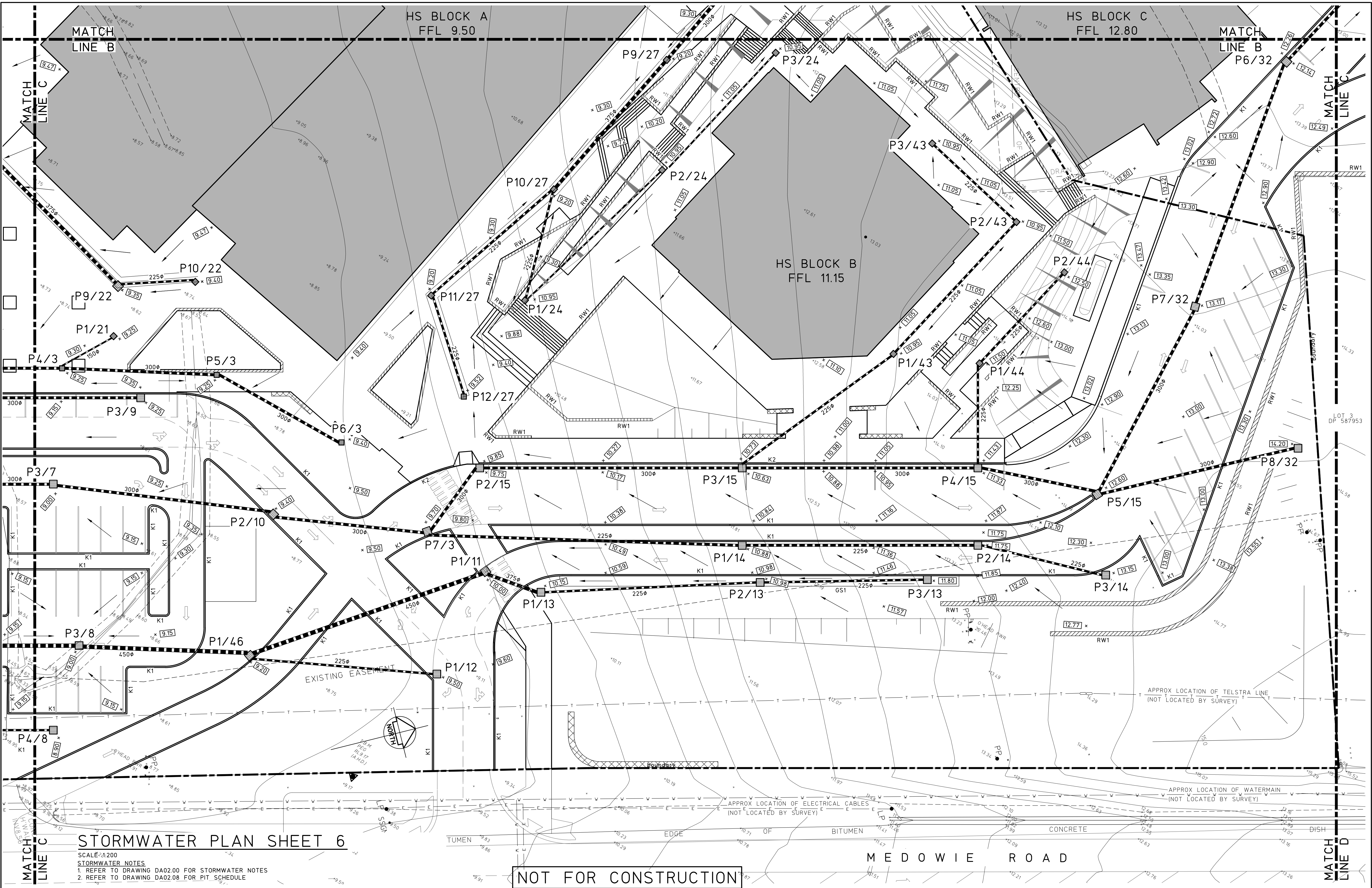




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0	RESUBMITTED DEVELOPMENT APPLICATION	13.12.18								SCALES <b>1:200</b>	JOB No <b>17-828</b>	DRAWING No <b>DA02.04</b>	ISSUE <b>0</b>
ISSUE	REASON FOR ISSUE	DATE	DATE OF RELEASE	RESPONSIBLE PRINCIPAL SIGNATURE		ISSUE							

FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm





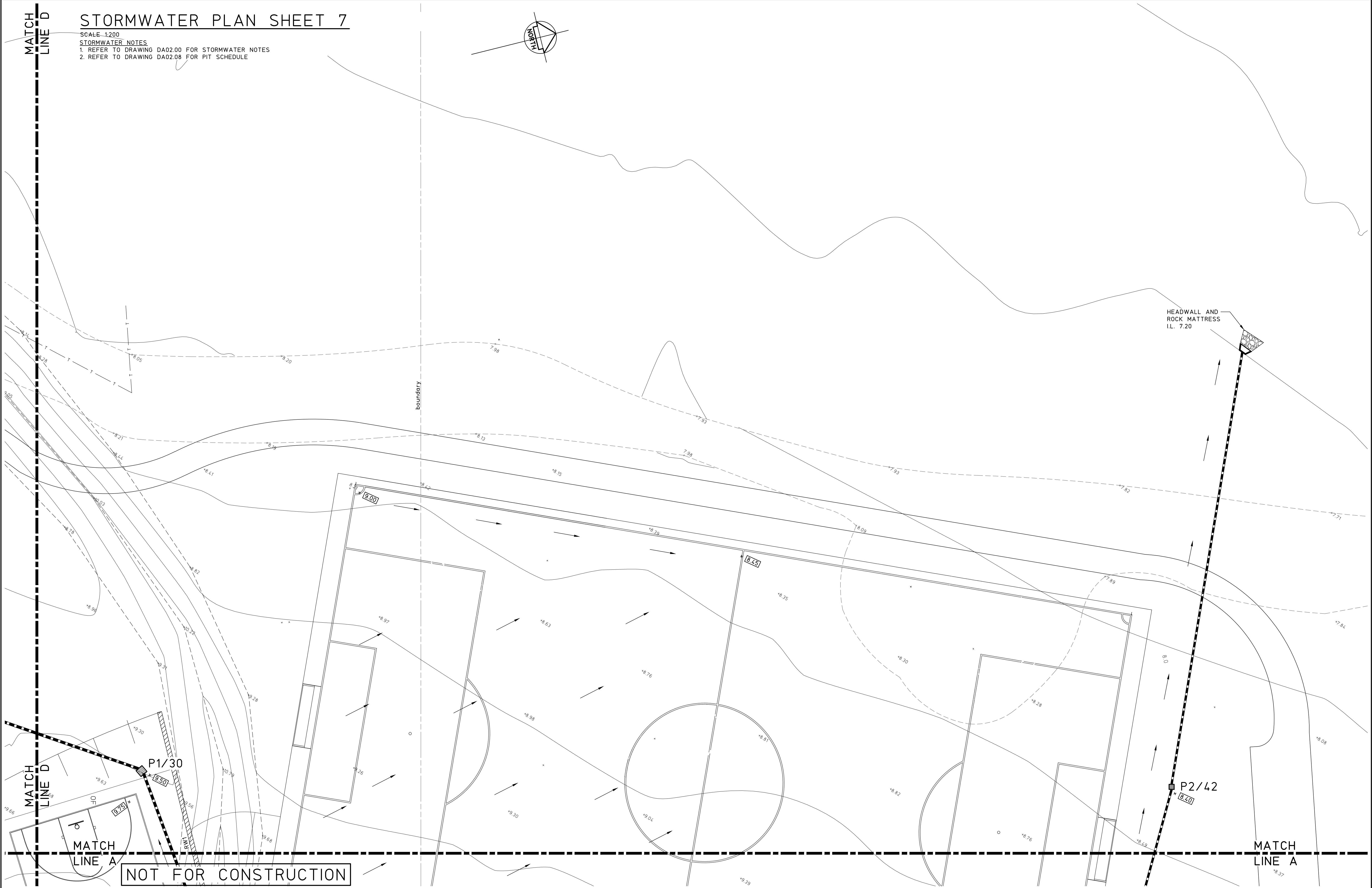
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0 RESUBMITTED DEVELOPMENT APPLICATION		13.12.18				TITLE STORMWATER PLAN SHEET 6				DRAWN J.P. ENGINEER M.S. No in SET -- SHEET A1					
ISSUE		REASON FOR ISSUE		DATE		DATE OF RELEASE		RESPONSIBLE PRINCIPAL SIGNATURE		ISSUE		SCALES 1:200		JOB No 17-828 DRAWING No DA02.05 ISSUE 0	



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FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm

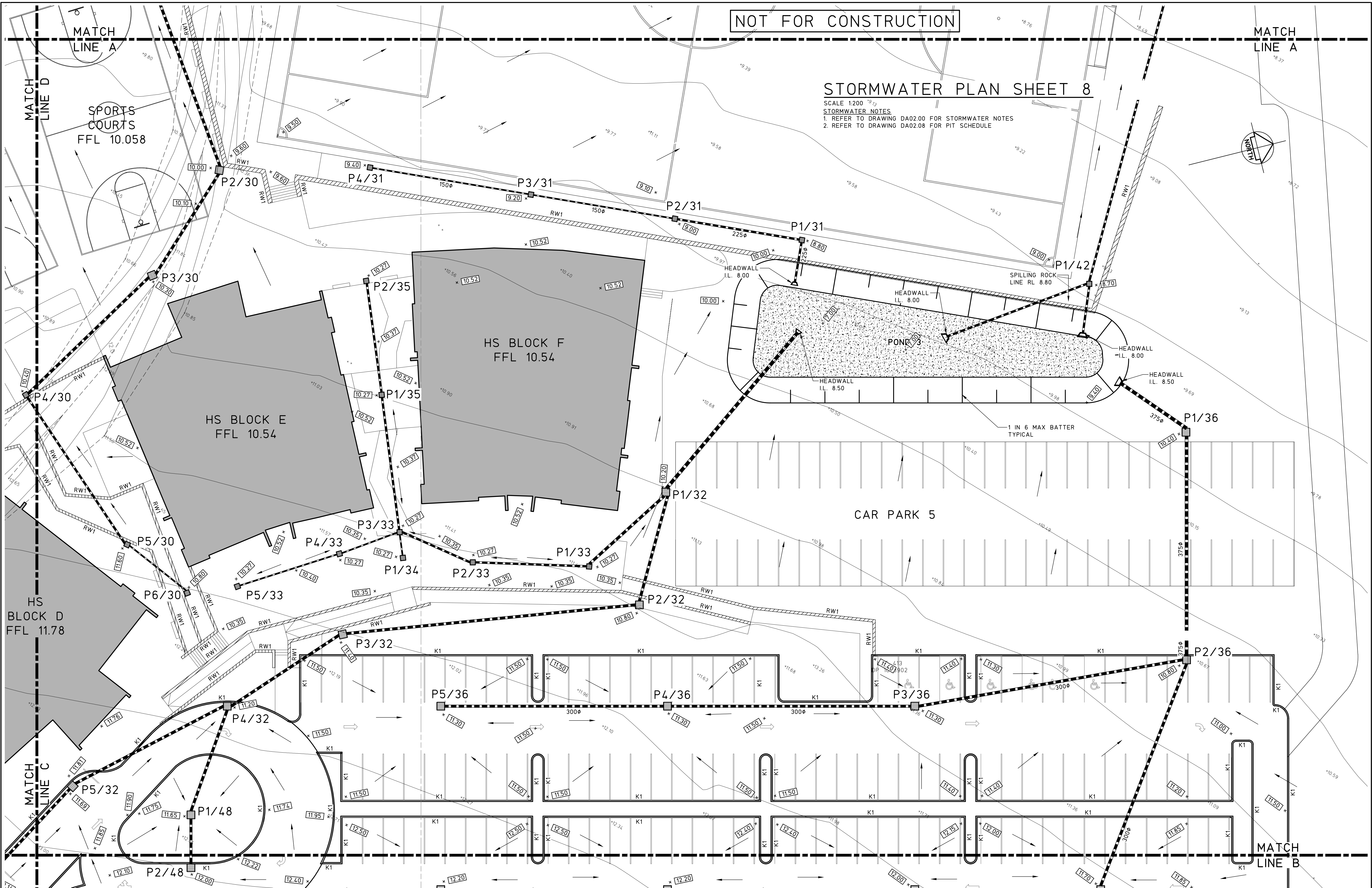




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0		RESUBMITTED	DEVELOPMENT	APPLICATION	13.12.18					TITLE		STORMWATER PLAN SHEET 7		SCALES 1:200		JOB No 17-828	DRAWING No DA02.06
ISSUE		REASON FOR ISSUE			DATE	DATE OF RELEASE	RESPONSIBLE PRINCIPAL SIGNATURE										

FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm





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STORMWATER PLAN SHEET 8

SCALE 1:200  
STORMWATER NOTES  
1. REFER TO DRAWING DA02.00 FOR STORMWATER NOTES  
2. REFER TO DRAWING DA02.08 FOR PIT SCHEDULE

MATCH LINE A

MATCH LINE D

MATCH LINE A

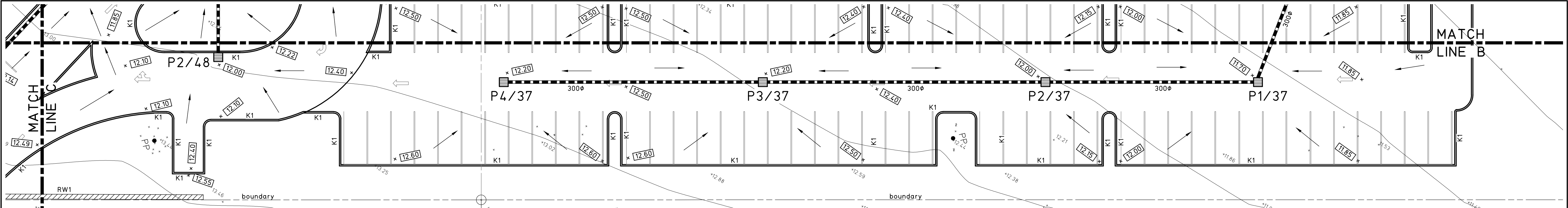
MATCH LINE B

MATCH LINE C

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0 RESUBMITTED DEVELOPMENT APPLICATION		13.12.18		TITLE STORMWATER PLAN SHEET 8				SCALES 1:200	JOB No 17-828	DRAWING No DA02.07	ISSUE 0
ISSUE		DATE		DATE OF RELEASE		RESPONSIBLE PRINCIPAL SIGNATURE					

FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm





STORMWATER PLAN SHEET 9

SCALE 1:200  
STORMWATER NOTES  
1. REFER TO DRAWING DA02.00 FOR STORMWATER NOTES AND LEGEND

NOTE  
ALL CARPARK PITS TO HAVE PIT INSERTS  
TO CAPTURE HYDROCARBENS PRIOR TO  
DETENTION, AND GPT FOR ADDITIONAL  
TREATMENT.

NOTE  
ADDITIONAL PITS IN LANDSCAPE AREAS  
T.B.C. DURING DETAILED DESIGN PHASE

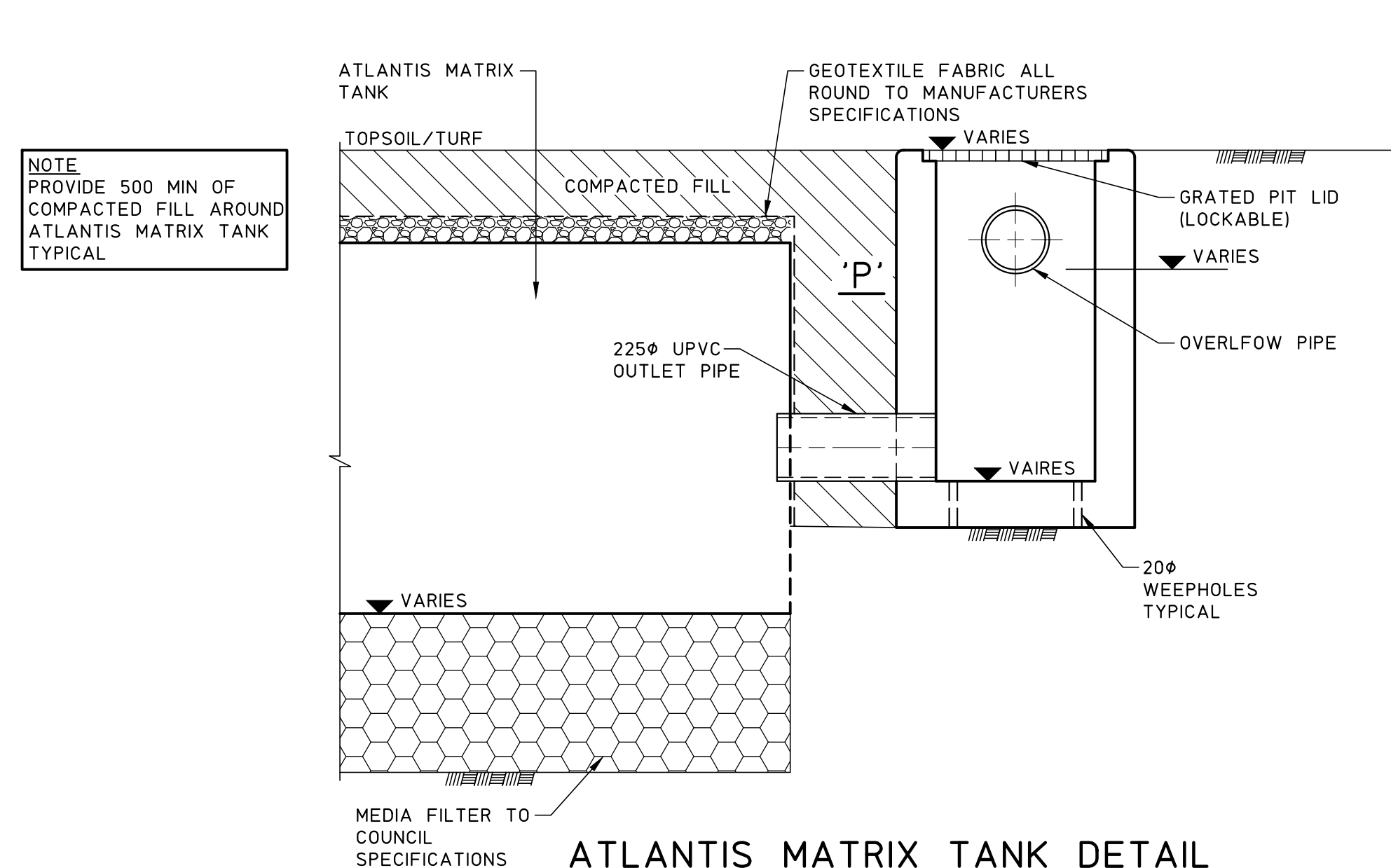
PIT SCHEDULE				
PIT No.	SIZE	TYPE	SURFACE LEVEL S.L.	INVERT LEVEL I.L.
P1/1	600x600	GRATED PIT	7.60	6.90
P2/1	600x600	GRATED PIT	7.80	7.10
P3/1	600x600	GRATED PIT	7.80	7.20
P4/1	600x600	GRATED PIT	8.00	7.35
P5/1	600x600	GRATED PIT	8.10	7.50
P6/1	600x600	GRATED PIT	8.30	7.60
P1/2	600x600	GRATED PIT	8.10	7.50
P2/2	600x600	GRATED PIT	8.40	7.60
P3/2	600x600	GRATED PIT	8.60	7.70
P4/2	600x600	GRATED PIT	8.50	7.90
P5/2		NOT USED		
P1/3	600x600	GRATED PIT	9.05	7.85
P2/2	600x600	GRATED PIT	9.05	7.95
P3/3	600x600	GRATED PIT	9.05	8.05
P4/3	600x600	GRATED PIT	9.25	8.15
P5/3	600x600	GRATED PIT	9.25	8.35
P6/3	600x600	GRATED PIT	9.40	8.50
P7/3	600x600	GRATED PIT	9.70	8.60
P1/4	600x600	GRATED PIT	8.50	7.70
P1/5		NOT USED		
P2/5		NOT USED		
P1/6		NOT USED		
P2/6	600x600	GRATED PIT	8.50	7.85
P3/6	600x600	GRATED PIT	8.50	8.10
P4/6	600x600	GRATED PIT	8.70	8.20
P1/7		NOT USED		
P2/7	600x600	GRATED PIT	8.85	8.10
P3/7	600x600	GRATED PIT	9.00	8.25
		NOT USED		
P2/8	600x600	GRATED PIT	9.00	8.10
P3/8	600x600	GRATED PIT	9.00	8.25
P4/8	600x600	GRATED PIT	8.90	8.40
P1/9	600x600	GRATED PIT	9.00	8.00
P2/9	600x600	GRATED PIT	9.00	8.15
P3/9	600x600	GRATED PIT	9.25	8.30
P4/9		NOT USED		
P1/10		NOT USED		
P2/10	600x600	GRATED PIT	9.50	8.90
P1/11	600x600	GRATED PIT	10.00	8.65
P1/12	600x600	GRATED PIT	9.50	8.80
P1/13	600x600	GRATED PIT	10.15	9.75
P2/13	600x600	GRATED PIT	10.98	10.28
P3/13	600x600	GRATED PIT	11.80	11.20
P1/14	600x600	GRATED PIT	10.88	8.80
P2/14	600x600	GRATED PIT	11.75	11.08
P3/14	600x600	GRATED PIT	13.30	12.40
P1/15		NOT USED		
P2/15	600x600	GRATED PIT	9.75	8.60
P3/15	600x600	GRATED PIT	10.63	9.80
P4/15	600x600	GRATED PIT	11.33	10.93
P5/15	600x600	GRATED PIT	12.60	11.90
P1/16	600x600	GRATED PIT	8.10	7.10
P2/16	600x600	GRATED PIT	8.85	7.85
P3/16	600x600	GRATED PIT	9.05	8.15

PIT SCHEDULE				
PIT No.	SIZE	TYPE	SURFACE LEVEL S.L.	INVERT LEVEL I.L.
P4/16	600x600	GRATED PIT	9.05	8.33
P1/17	600x600	GRATED PIT	8.70	7.30
P2/17	600x600	GRATED PIT	8.80	7.40
P3/17	600x600	GRATED PIT	9.05	8.30
P4/17	600x600	GRATED PIT	9.05	8.55
P1/18	600x600	GRATED PIT	9.05	7.50
P2/18	600x600	GRATED PIT	9.05	7.63
P3/18	600x600	GRATED PIT	9.05	7.78
P4/18	600x600	GRATED PIT	9.05	7.83
P5/18	600x600	GRATED PIT	9.05	7.88
P1/19	600x600	GRATED PIT	9.05	7.75
P2/19	600x600	GRATED PIT	9.05	7.97
P3/19	600x600	GRATED PIT	9.00	8.10
P1/20	600x600	GRATED PIT	9.00	7.83
P2/20	600x600	GRATED PIT	9.00	8.00
P3/20	600x600	GRATED PIT	9.00	8.15
P1/21	600x600	GRATED PIT	9.25	8.80
P1/22	600x600	GRATED PIT	8.50	7.00
P2/22	600x600	GRATED PIT	9.00	7.20
P3/22	600x600	GRATED PIT	9.10	7.60
P4/22	600x600	GRATED PIT	9.00	7.70
P5/22	600x600	GRATED PIT	9.00	8.00
P6/22	600x600	GRATED PIT	9.05	8.25
P7/22	600x600	GRATED PIT	9.05	8.35
P8/22	600x600	GRATED PIT	9.05	8.60
P9/22	600x600	GRATED PIT	9.35	8.80
P10/22	600x600	GRATED PIT	9.40	8.88
P1/23	600x600	GRATED PIT	9.20	8.40
P2/23	600x600	GRATED PIT	9.10	8.50
P1/24	600x600	GRATED PIT	9.20	8.44
P2/24	600x600	GRATED PIT	10.95	8.60
P3/24	600x600	GRATED PIT	10.95	8.80
P1/25	600x600	GRATED PIT	12.50	8.64
P1/26	600x600	GRATED PIT	9.20	7.75
P1/27	600x600	GRATED PIT	8.60	6.65
P2/27	600x600	GRATED PIT	9.20	7.00
P3/27	600x600	GRATED PIT	9.20	7.25
P4/27	600x600	GRATED PIT	9.30	7.50
P5/27	600x600	GRATED PIT	9.20	7.55
P6/27	600x600	GRATED PIT	9.20	7.75
P7/27	600x600	GRATED PIT	9.20	8.00
P8/27	600x600	GRATED PIT	9.20	8.26
P9/27	600x600	GRATED PIT	9.20	8.39
P10/27	600x600	GRATED PIT	9.20	8.58
P11/27	600x600	GRATED PIT	9.20	8.70
P12/27	600x600	GRATED PIT	9.52	8.80
P1/28	600x600	GRATED PIT	9.00	8.00
P2/28	600x600	GRATED PIT	10.00	9.26
P3/28	600x600	GRATED PIT	11.50	10.70
P4/28	600x600	GRATED PIT	11.60	10.90
P1/29	600x600	GRATED PIT	10.10	9.50
P2/29	600x600	GRATED PIT	10.70	10.00
P3/29	600x600	GRATED PIT	11.20	10.20
P1/30	600x600	GRATED PIT	9.50	8.43
P2/30	600x600	GRATED PIT	10.00	9.00

PIT SCHEDULE				
PIT No.	SIZE	TYPE	SURFACE LEVEL S.L.	INVERT LEVEL I.L.
P3/30	600x600	GRATED PIT	10.30	9.50
P4/30	600x600	GRATED PIT	10.40	9.70
P5/30	600x600	GRATED PIT	11.60	10.00
P6/30	600x600	GRATED PIT	10.80	10.20
P1/31	600x600	GRATED PIT	8.80	8.04
P2/31	600x600	GRATED PIT	9.00	8.21
P3/31	600x600	GRATED PIT	9.20	8.41
P4/31	600x600	GRATED PIT	9.40	8.64
P1/32	600x600	GRATED PIT	10.20	8.70
P2/32	600x600	GRATED PIT	10.80	8.80
P3/32	600x600	GRATED PIT	11.40	10.30
P4/32	600x600	GRATED PIT	11.20	10.45
P5/32	600x600	GRATED PIT	11.40	10.65
P6/32	600x600	GRATED PIT	12.20	11.65
P7/32	600x600	GRATED PIT	13.17	12.25
P8/32	600x600	GRATED PIT	14.20	12.80
P1/33	600x600	GRATED PIT	10.27	8.92
P2/33	600x600	GRATED PIT	10.27	9.07
P3/33	600x600	GRATED PIT	10.27	9.17
P4/33	600x600	GRATED PIT	10.27	9.43
P5/33	600x600	GRATED PIT	10.27	9.58
P1/34	600x600	GRATED PIT	10.27	9.43
P1/35	600x600	GRATED PIT	10.27	9.35
P2/35	600x600	GRATED PIT	10.27	9.51
P1/36	600x600	GRATED PIT	10.40	9.50
P2/36	600x600	GRATED PIT	10.80	9.70
P3/36	600x600	GRATED PIT	11.30	10.00
P4/36	600x600	GRATED PIT	11.30	10.29
P5/36	600x600	GRATED PIT	11.30	10.55
P1/37	600x600	GRATED PIT	11.70	10.70
P2/37	600x600	GRATED PIT	12.00	10.90
P3/37	600x600	GRATED PIT	12.20	11.19
P4/37	600x600	GRATED PIT	12.20	11.45
P1/38	600x600	GRATED PIT	7.70	6.20
P1/39	600x600	GRATED PIT	7.70	7.00
P2/39	600x600	GRATED PIT	7.70	-
P3/39	600x600	GRATED PIT	7.70	-
P4/39	600x600	GRATED PIT	7.65	-
P1/40	600x600	GRATED PIT	8.70	7.80
P1/41	600x600	GRATED PIT	8.70	7.80
P1/42	600x600	GRATED PIT	8.70	7.90
P2/42	600x600	GRATED PIT	8.40	7.50
P1/43	600x600	GRATED PIT	10.95	10.00
P2/43	600x600	GRATED PIT	10.95	10.10
P3/43	600x600	GRATED PIT	10.95	10.20
P1/44	600x600	GRATED PIT	11.50	11.10
P2/44	600x600	GRATED PIT	12.50	11.50
P1/45	600x600	GRATED PIT	9.50	7.50
P2/45	600x600	GRATED PIT	10.60	9.60
P3/45	600x600	GRATED PIT	10.80	9.80
P1/46	600x600	GRATED PIT	9.20	8.80
P1/47	600x600	GRATED PIT	7.60	7.00
P1/48	600x600	GRATED PIT	11.65	11.20
P2/48	600x600	GRATED PIT	12.00	11.60

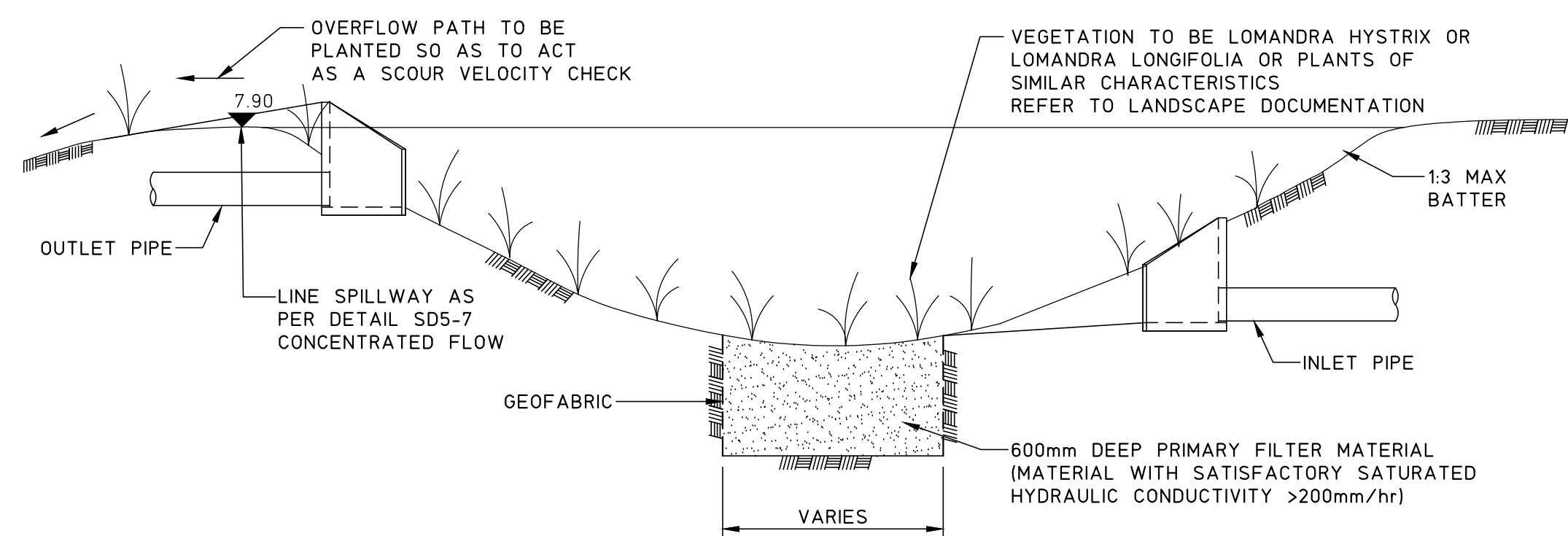
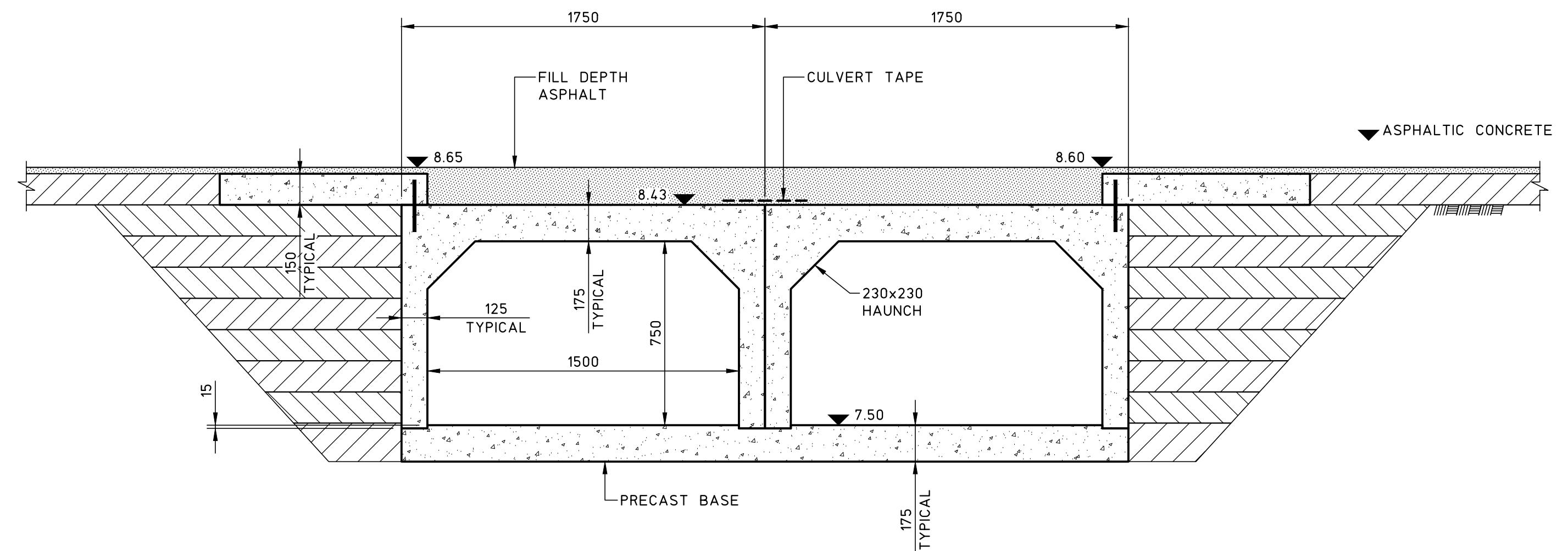
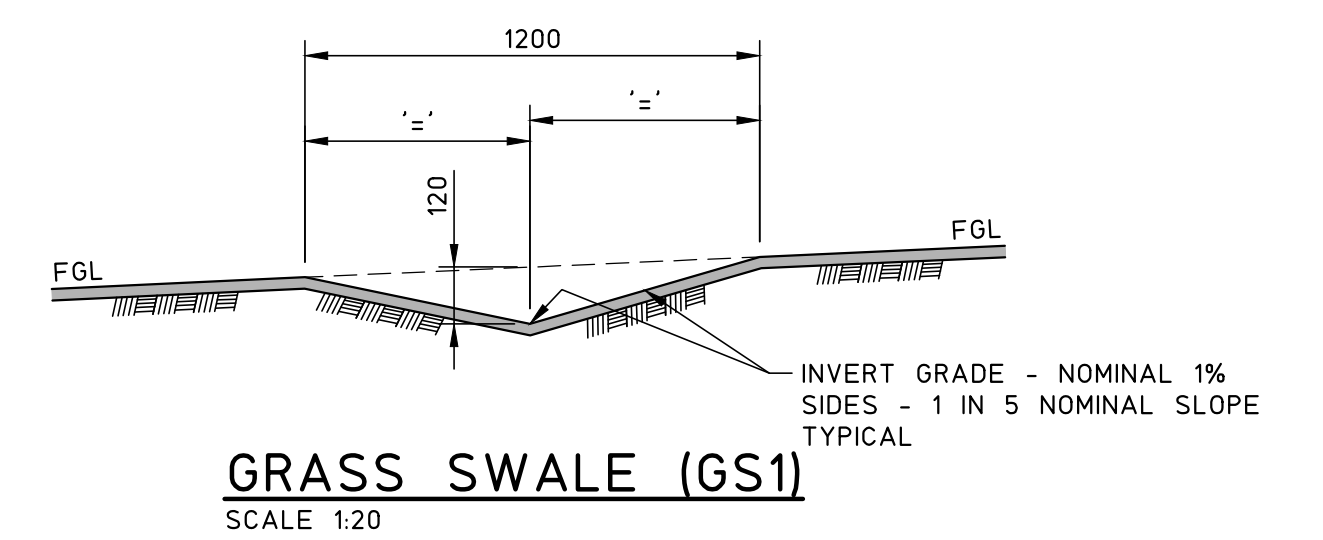
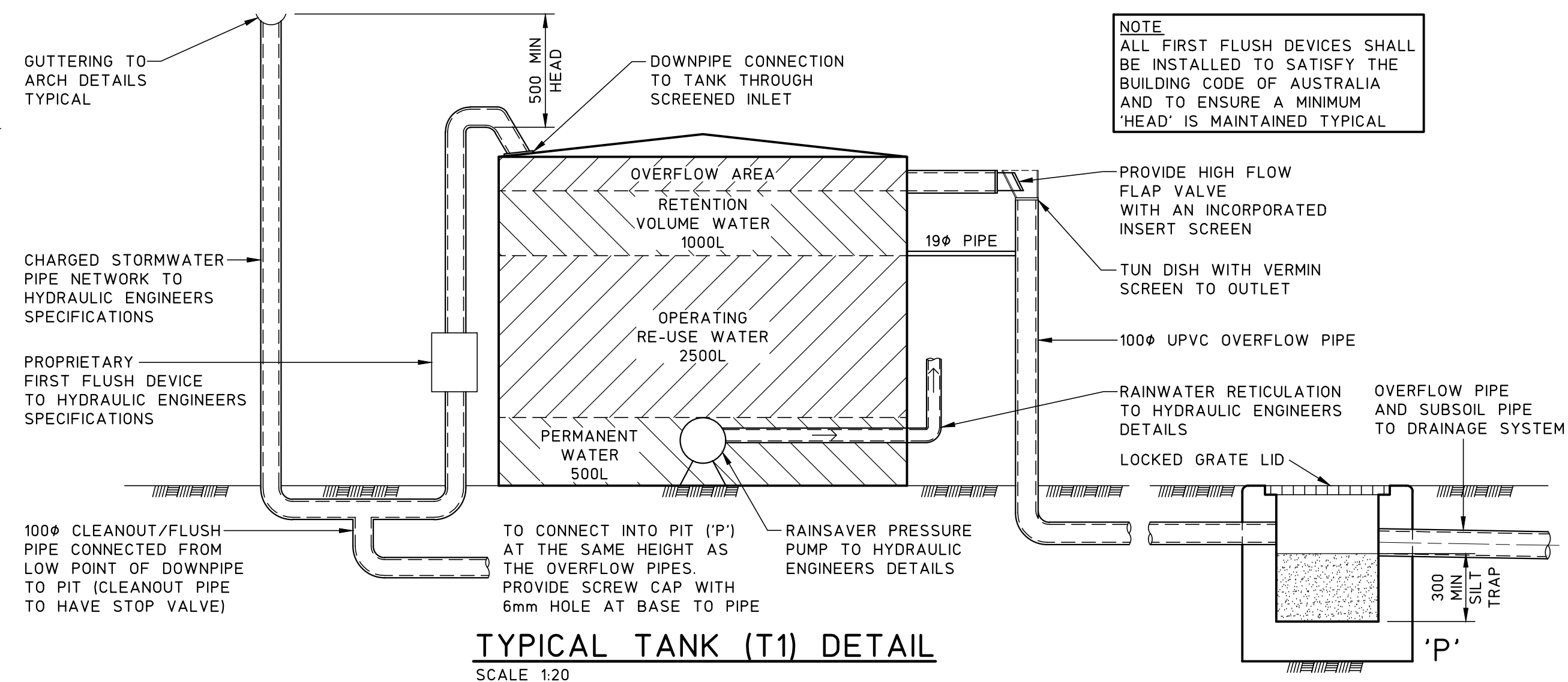
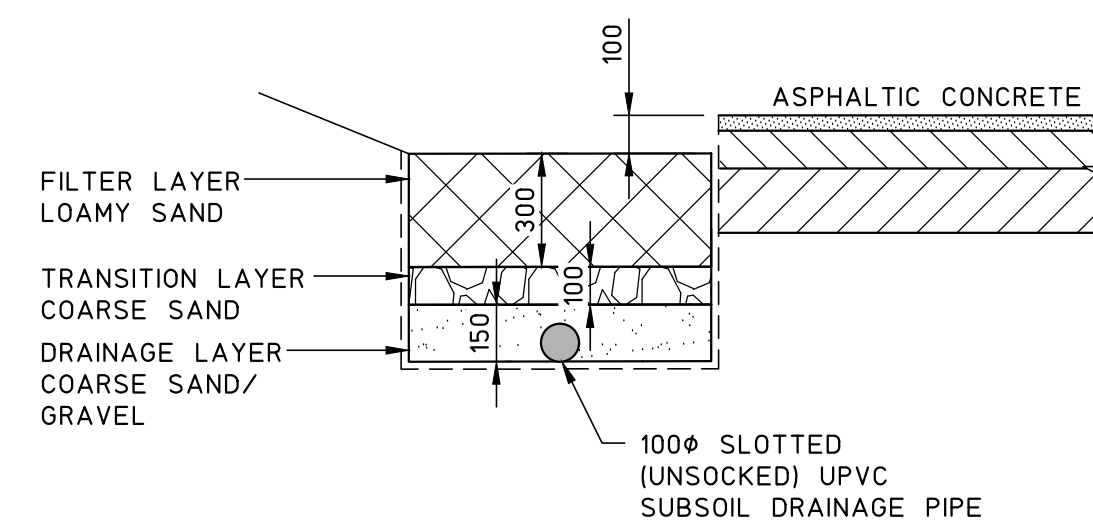
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0		RESUBMITTED DEVELOPMENT APPLICATION		13.12.18				TITLE		STORMWATER PLAN		JOB No		DRAWING No		ISSUE	
ISSUE		REASON FOR ISSUE		DATE		DATE OF RELEASE		SHEET 9		1:200		17-828		DA02.08		0	






### ATLANTIS MATRIX TANK DETAIL

- ## ATLANTIS MATRIX TANK NOTES
1. TRENCHING SHALL BE CLEAR OF STRUCTURAL FOUNDATIONS WITHIN THE RANGE OF 1m (MIN) IN CLEAN SAND AND 5m (MIN) IN CLAY.
  2. THE TRENCHING SHALL BE PLACED LEVEL ALONG THE CONTOUR OF THE NATURAL OR FINISHED SURFACE.
  3. THE TRENCHING SHALL BE PLACED WITHIN THE PROPERTY TO ACHIEVE MAX. AREA, SLOPING AWAY FROM THE TRENCH, FOR DISPOSAL OF WATER.
  4. IT IS THE OWNERS RESPONSIBILITY TO REGULARLY CLEAN THE PIT AND MAINTAIN THE SYSTEM.
  5. PROVIDE 1500 INSPECTION POINTS IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION



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0		RESUBMITTED DEVELOPMENT APPLICATION								13.12.18		TITLE		STORMWATER DETAILS		J.P.		M.S.		--	
ISSUE		REASON FOR ISSUE		DATE		DATE OF RELEASE		RESPONSIBLE PRINCIPAL SIGNATURE		ISSUE		SCALE		JOB No		DRAWING No		ISSUE			
												1:50, 20		17-828		DA02.50		0			

FULL SIZE ON ORIGINAL 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm