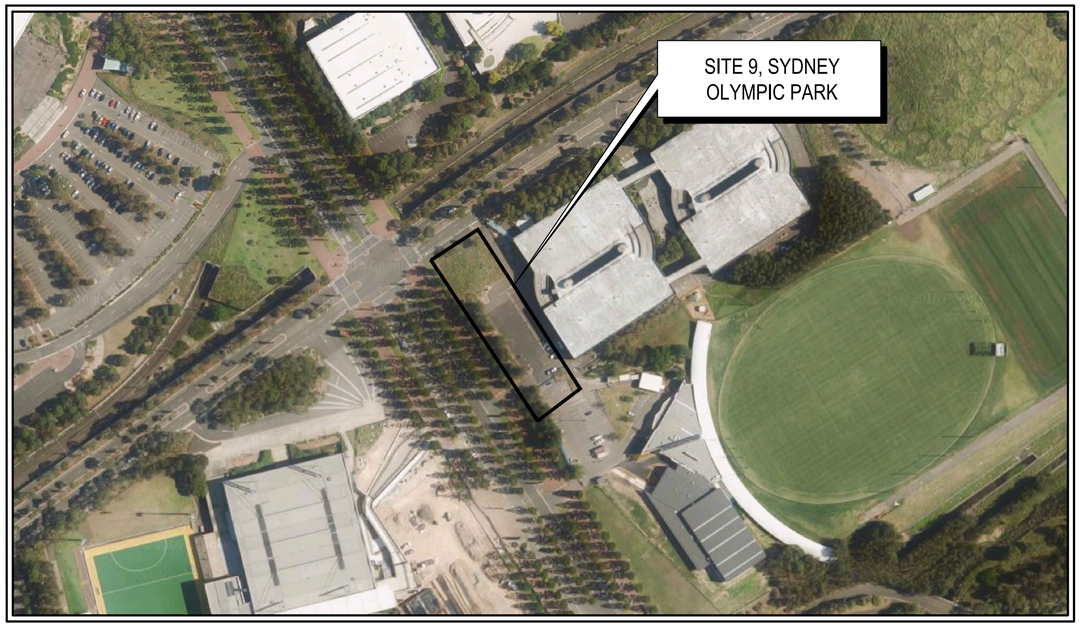
SITE 9, SYDNEY OLYMPIC PARK

CONCEPT STORMWATER MANAGEMENT PLAN

DEVELOPMENT APPLICATION



SOURCE : GOOGLE MAPS (©2015)

LOCALITY MAP

NOT TO SCALE

DRAWING SCHEDULE

2015-0648-H01	COVER SHEET
2015-0648-H02	CONCEPT SEDIMENT AND EROSION CONTROL PLAN
2015-0648-H03	SEDIMENT AND EROSION CONTROL DETAILS
2015-0648-H04	CONCEPT STORMWATER MANAGEMENT PLAN
2015-0648-H05	DETAILS SHEET

THIS DRAWING HAS BEEN PREPARED IN CONJUNCTION WITH THE FOLLOWING DRAWINGS:

Discipline	Dwg. No.	Date	Revisions
ARCHITECTURAL			
STRUCTURAL			
MECHANICAL			
ELECTRICAL			
CIVIL			
LANDSCAPE			
OTHER			

CORPORATE MEMBER

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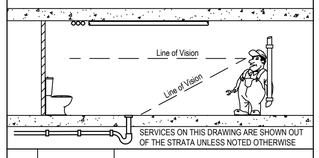

SERVICES ON THIS DRAWING ARE SHOWN OUT OF THE STRATA UNLESS NOTED OTHERWISE

No.	Date	Details
02	02/03/16	ISSUED FOR DEVELOPMENT APPLICATION
01	12/02/16	ISSUED FOR REVIEW

Amendments

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Where ingenuity flows

Project
SITE 9,
SYDNEY OLYMPIC PARK

Drawing
STORMWATER MANAGEMENT
COVER SHEET

Status
NOT FOR CONSTRUCTION

Project No.	Drawing No.
2015-0648	H01 /02

Drawn: AD	Date: FEB 2016
Design: AD	Scale: AS SHOWN
Verified:	No in set: 1/5

SITE 9, SYDNEY OLYMPIC PARK 2015-0648 - H01

SEDIMENT AND EROSION

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ESTABLISHMENT AND MAINTENANCE OF EROSION AND SEDIMENTATION THROUGHOUT THE CONTRACT IN ACCORDANCE WITH:
   - A. LOCAL AUTHORITY REQUIREMENTS
   - B. EPA REQUIREMENTS
   - C. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004 ("THE BLUE BOOK".)

2. THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE DRAWINGS REPRESENT CONCEPTS ONLY TO DEMONSTRATE THE MINIMUM REQUIREMENTS.

3. MAINTAIN THE EROSION CONTROL DEVICES AT ALL TIMES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.

4. AS STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.

5. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.

6. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL. DUST CONTROL HESSIAN SHALL BE INSTALLED TO SITE FENCES AS REQUIRED.

7. FINAL SITE LANDSCAPING OR TEMPORARY STABILISATION WILL BE UNDERTAKEN AS SOON AS POSSIBLE FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

8. THE CONTRACTOR IS TO INFORM ALL SUB-CONTRACTORS OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS.

9. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE SHALL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
   - A. INSTALL ALL TEMPORARY SEDIMENT FENCES AND BARRIER FENCES. WHERE FENCES ARE ADJACENT TO EACH OTHER THE SEDIMENT FENCE CAN BE INCORPORATED INTO THE BARRIER FENCE;
   - B. CONSTRUCT TEMPORARY STABILISED SITE ACCESS. INCLUDING SHAKE DOWN AND WASH PAD;
   - C. INSTALL SEDIMENT CONTROL MEASURES AS OUTLINED ON THE APPROVED PLANS;
   - D. UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

10. TOPSOIL STRIPPED FROM SITE SHALL BE STOCKPILED WITHIN THE SITE FOR REUSE

11. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING. SEDIMENT RETENTION STRUCTURES TO BE PLACED DOWNSLOPE OF ANY STOCKPILES. STOCKPILES IN PLACE > 28 DAYS TO BE TEMPORARILY GRASSED.

12. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.

13. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

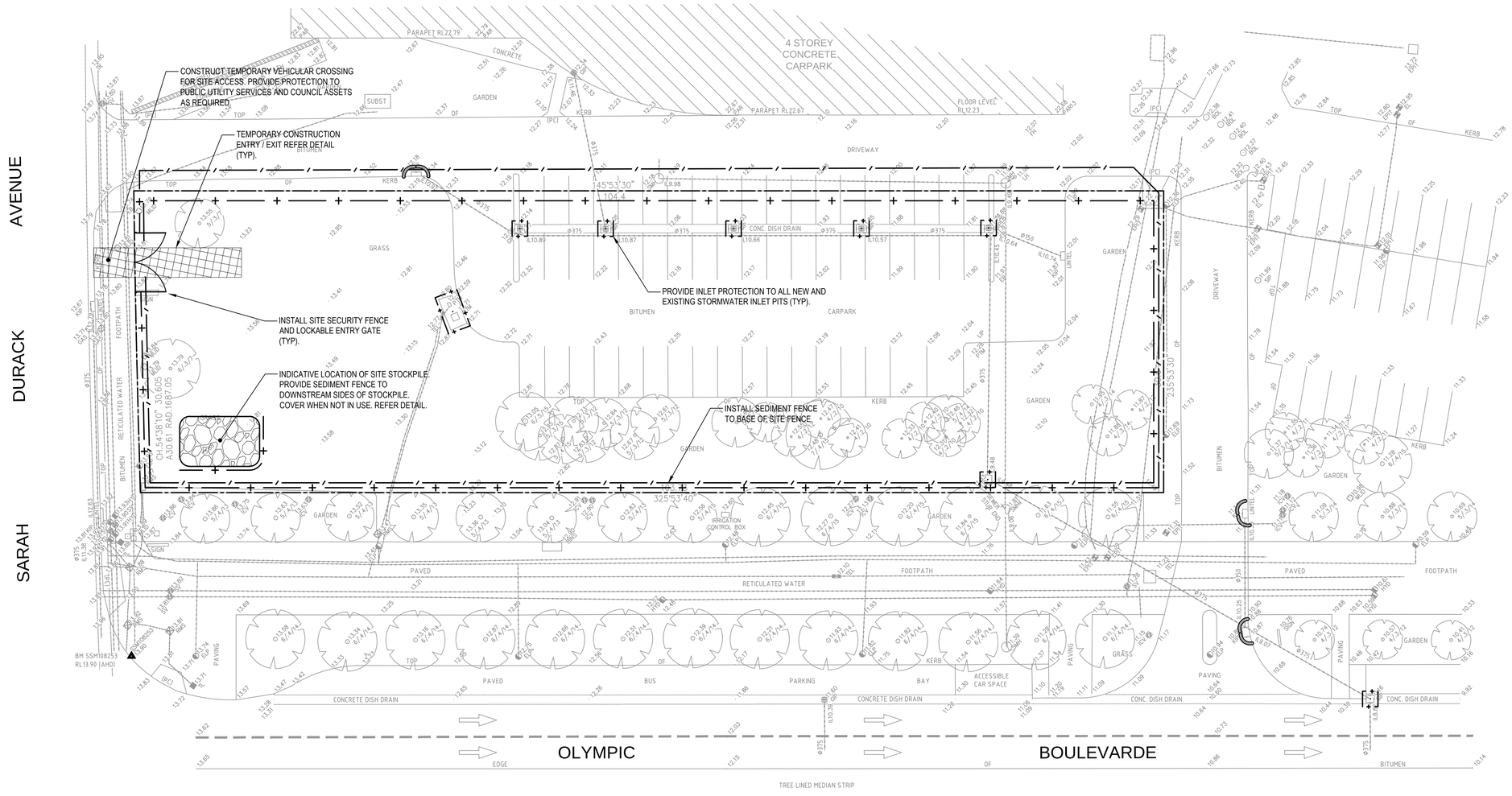
14. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER AND SHALL BE DISPOSED OF IN ACCORDANCE WITH REGULATORY AUTHORITY REQUIREMENTS, PAY ALL FEES AND PROVIDE EVIDENCE OF SAFE DISPOSAL.

15. STRIPPING WORKS ARE TO BE STAGED TO MINIMISE EXTENTS OF EXPOSED AREAS AT ONE TIME. WEATHER CONDITIONS TO BE ASSESSED PRIOR TO UNDERTAKING STRIPPING.

16. SITE ACCESS TO BE RESTRICTED TO ALLCOATED TRUCK ROUTES. EXTERNAL ROADS TO BE SWEPT REGULARLY FOR DURATION OR WORKS.

SEDIMENT AND EROSION LEGEND

- SITE SECURITY FENCE
- SEDIMENT FENCE
- GEOTEXTILE INLET FILTER
- SITE STOCKPILE
- MESH AND GRAVEL INLET FILTER



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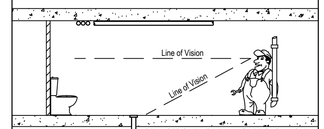

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Amendments

0 2.5 5.0 7.5 10 12.5m

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Project
SITE 9,
SYDNEY OLYMPIC PARK

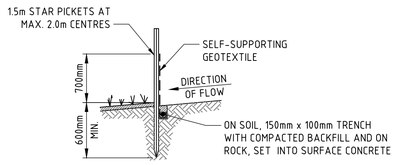
Drawing
STORMWATER MANAGEMENT
CONCEPT SEIDMENT AND EROSION CONTROL PLAN

Status
NOT FOR CONSTRUCTION

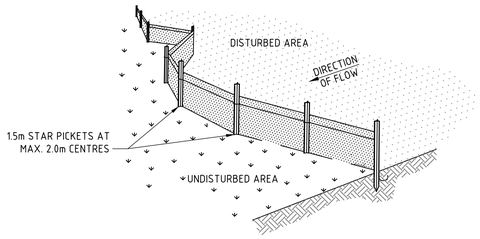
Project No.	Drawing No.
2015-0648	H02 / 02

Drawn: AD	Date: DEC 2015
Design: AD	Scale: 1:250
Verified:	No in set: 2/5

SITE 9, SYDNEY OLYMPIC PARK 2015-0648 - H02



SECTION DETAIL



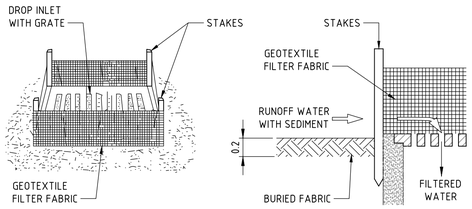
PLAN

NOTES:

1. 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 50L/s IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 200mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND AT 2.0m INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. 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.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE

NOT TO SCALE

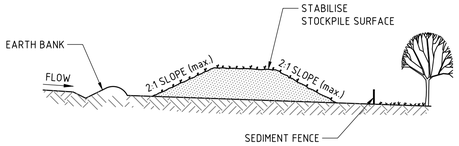


NOTES:

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. CUT A 200mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.0m LONG STAR PICKETS INTO GROUND AT THE FOUR CORNERS OF PIT WALLS. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. 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.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

GEOTEXTILE INLET FILTER

NOT TO SCALE

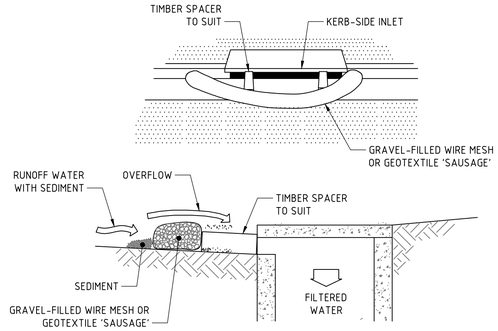


NOTES:

1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT. 4. 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.
5. CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.

STOCKPILE

NOT TO SCALE

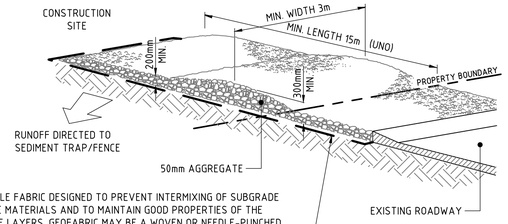


MESH AND GRAVEL INLET FILTER

NOT TO SCALE

NOTES:

1. THIS PRACTICE ONLY TO BE USED WHERE SPECIFIED IN AN APPROVED SWMP/ESCP.
2. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
3. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
4. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
5. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100-mm SPACE BETWEEN IT AND THE KERB INLET . MAINTAIN THE OPENING WITH SPACE BLOCKS.
6. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
7. 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.



GEOTEXTILE FABRIC DESIGNED TO PREVENT INTERMIXING OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE LAYERS. GEOFABRIC MAY BE A WOVEN OR NEEDLE-PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF 2500 N

NOTES:

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

TEMPORARY CONSTRUCTION ENTRY/EXIT

NOT TO SCALE

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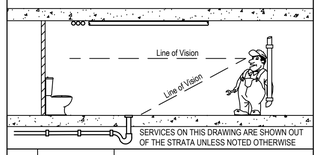

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Project
SITE 9,
SYDNEY OLYMPIC PARK

Drawing
STORMWATER MANAGEMENT
SEIDMENT AND EROSION
CONTROL DETAILS

Status
NOT FOR CONSTRUCTION

Project No.	Drawing No.
2015-0648	H03 /02

Drawn: AD	Date: FEB 2016
Design: AD	Scale: AS SHOWN
Verified:	No in set: 3/5

SITE 9, SYDNEY OLYMPIC PARK 2015-0648 - H03

DESIGN SUMMARY

ON-SITE STORMWATER DETENTION

- SITE AREA = 3,185.8m²
- EXISTING IMPERVIOUS AREA = 53.8%
- PROPOSED IMPERVIOUS AREA = 100%
- OSD CALCULATIONS WERE UNDERTAKEN USING DRAINS
- PSD = PRE-DEVELOPMENT 20% AEP (5 YEAR ARI) STORM EVENT RUNOFF = 112 L/s
- 1% AEP (100 YEAR ARI) TAILWATER LEVEL = RL10.80

OSD CALCULATIONS			
STORM EVENT (ARI)	STORAGE PROVIDED (m^3)	PSD (L/s)	SITE DISCHARGE (L/s)
5	18	112	86
20	32	112	102
100	60	112	110

- TOTAL OSD STORAGE PROVIDED = 60m³
- ORIFICE PLATE DIA. = 240mm

WATER QUALITY MEASURES

- WATER QUALITY TREATMENT HAS BEEN DESIGNED USING MUSIC;
- REATMENT MEASURES
  - WATER QUALITY CHAMBER - 30x460mm S360 PSORB CARTRIDGES;
  - ENVIROPOD FILTER BASKET
  - 25m³ RAINWATER REUSE TANK

WATER QUALITY TREATMENT		
POLLUTANT	REDUCTION TARGET (%)	REDUCTION ACHIEVED (%)
GP	95	100
TSS	90	90.2
TP	85	85.9
TN	65	70.5

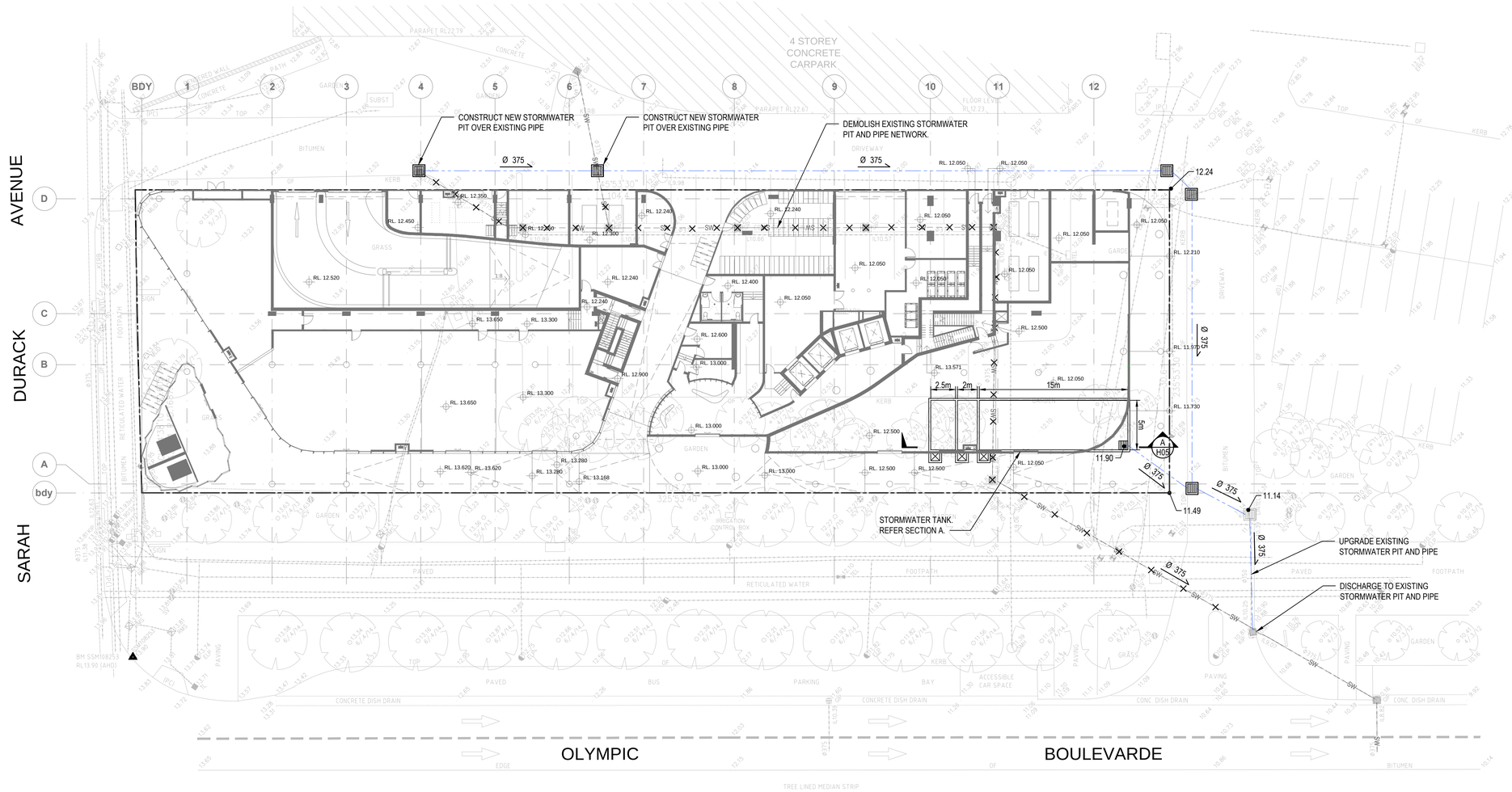
THE STORMWATER MANAGEMENT HAS BEEN DESIGNED IN ACCORDANCE WITH AUBURN COUNCIL'S STORMWATER MANAGEMENT POLICY AND SYDNEY OLYMPIC PARK AUTHORITY GUIDELINES.

LEGEND

- SW — EXISTING STORMWATER PIPE
- PROPOSED STORMWATER PIPE
- EXISTING STORMWATER PIT
- SWP — STORMWATER GRATED PIT
- GTD — GRATED TRENCH DRAIN
- PIPE PENETRATING
- Ø 100 — PIPE SIZE / FLOW DIRECTION
- RW — RETAINING WALL

NOTES

1. THESE PLANS HAVE BEEN DESIGN IN ACCORDANCE WITH RELEVANT LOCAL AUTHORITY GUIDELINES FOR DEVELOPMENT APPLICATION PURPOSES TO DEMONSTRATE FEASIBILITY AND ARE SUBJECT TO COUNCIL APPROVAL AND DETAILED DESIGN AT CONSTRUCTION CERTIFICATE STAGE.
2. DO NOT OBTAIN DIMENSIONS BY SCALING THE DRAWINGS. ALL DIMENSIONS ARE IN MILLIMETERS (mm) AND ALL LEVELS ARE IN METERS (m), UNO. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
3. ALL DOWNPIPES TO DISCHARGE TO RAINWATER REUSE TANK VIA FIRST FLUSH DEVICE.
4. ALL PITS TO CONTAIN STORMWATER 360 ENVIROPODS.
5. RAINWATER TANK TO BE SIZED TO FOR 90% REUSE EFFICIENCY.



NORTH

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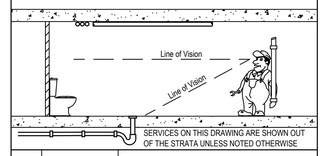

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Drawing
STORMWATER MANAGEMENT
CONCEPT STORMWATER MANAGEMENT PLAN

Status
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2015-0648	H04 /03

Drawn: AD	Date: FEB 2016
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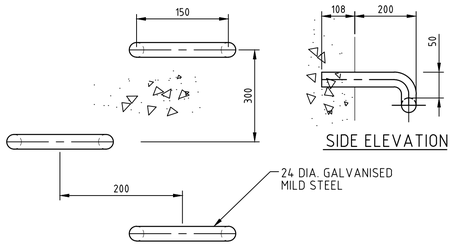
Verified:	No in set: 4/5

SITE 9, SYDNEY OLYMPIC PARK 2015-0648 – H04

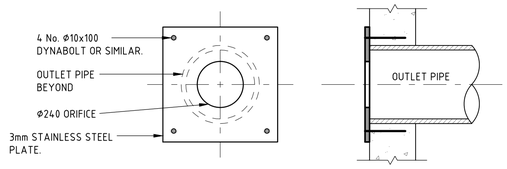


FRONT ELEVATION

SIDE ELEVATION

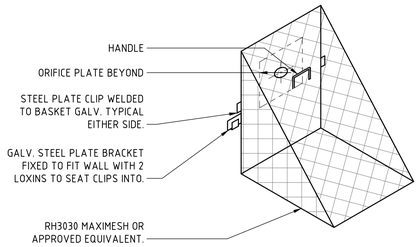
STEP IRON DETAIL

NOT TO SCALE



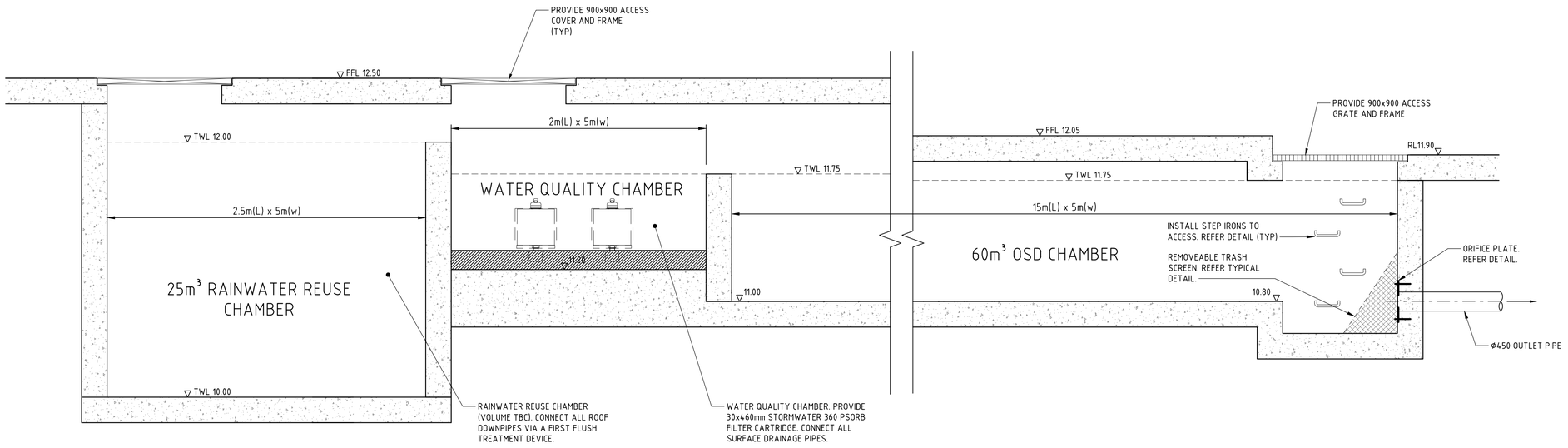
TYPICAL ORIFICE PLATE DETAIL

NOT TO SCALE



TRASH SCREEN DETAIL

NOT TO SCALE



TYPICAL STORMWATER TANK SECTION

SCALE 1:20

NOTE :

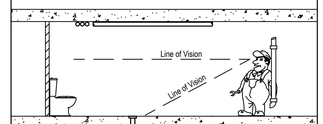
1. A CONFIRMED SPACES WARNING SIGN IS TO BE INSTALLED IN THE TANK AT THE ACCESS LOCATION.
2. PROVIDE MOSQUITO AND VERMIN PROTECTION TO ALL INLETS AND OUTLETS.
3. PROVIDE WATERPROOFING TO ARCHITECTS SPECIFICATIONS.
4. THE RAINWATER TANK SHALL BE CONNECTED TO A MAINS WATER DIVERSION SYSTEM AND BE USED FOR TOILET FLUSHING AND IRRIGATION. INSTALL A 3-WAY SWITCHING DEVICE, STOP-VALVE AND BACKFLOW PREVENTION DEVICE.
5. RAINWATER REUSE TANK TO BE SIZED TO ACHIEVE 90% REUSE EFFICIENCY.
7. PUMPS AND RETICULATION BY OTHERS.
8. RAINWATER REUSE TREATMENT IS TO BE PROVIDED BY OTHERS.

THIS DRAWING HAS BEEN PREPARED IN CONJUNCTION WITH THE FOLLOWING DRAWINGS:

Discipline	Dwg. No.	Date	Revisions
ARCHITECTURAL			
STRUCTURAL			
MECHANICAL			
ELECTRICAL			
CIVIL			
LANDSCAPE			
OTHER			

CORPORATE MEMBER

AHSCA
The Association of Hydraulic Services Consultants Australia (NSW)



SERVICES ON THIS DRAWING ARE SHOWN OUT OF THE STRATA UNLESS NOTED OTHERWISE

No.	Date	Details
03	04/03/16	ISSUED FOR DEVELOPMENT APPLICATION
02	02/03/16	ISSUED FOR DEVELOPMENT APPLICATION
01	12/02/16	ISSUED FOR REVIEW

Amendments

0 200 400 600 800 1000mm

Architect
BATES SMART ARCHITECTS

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Where ingenuity flows

Project
SITE 9,
SYDNEY OLYMPIC PARK

Drawing
STORMWATER MANAGEMENT
DETAILS SHEET

Status
NOT FOR CONSTRUCTION

Project No.	Drawing No.
2015-0648	H05 /03
Drawn: AD	Date: FEB 2016
Design: AD	Scale: 1:20
Verified:	No in set: 5/5

SITE 9, SYDNEY OLYMPIC PARK 2015-0648 - H05