

| No. | Description | Drawing / Sheet No. | Issue No. |
|-----|-----------------------------------|---------------------|-----------|
| 0 | Drawing List | 11605-00/9 | E |
| 1 | Erosion and Sediment Control Plan | 11605-01/9 | D |
| 2 | Basement Plan | 11605-02/9 | D |
| 3 | Ground Floor Plan | 11605-03/9 | E |
| 4 | Levels 1 to 3 Floor Plan (Typ.) | 11605-04/9 | D |
| 5 | Roof Plan | 11605-05/9 | D |
| 6 | Staging Plan | 11605-06/9 | D |
| 7 | Water Quality | 11605-07/9 | D |
| 8 | Notes and Details | 11605-08/9 | D |
| 9 | Notes and Details 2 | 11605-09/9 | D |

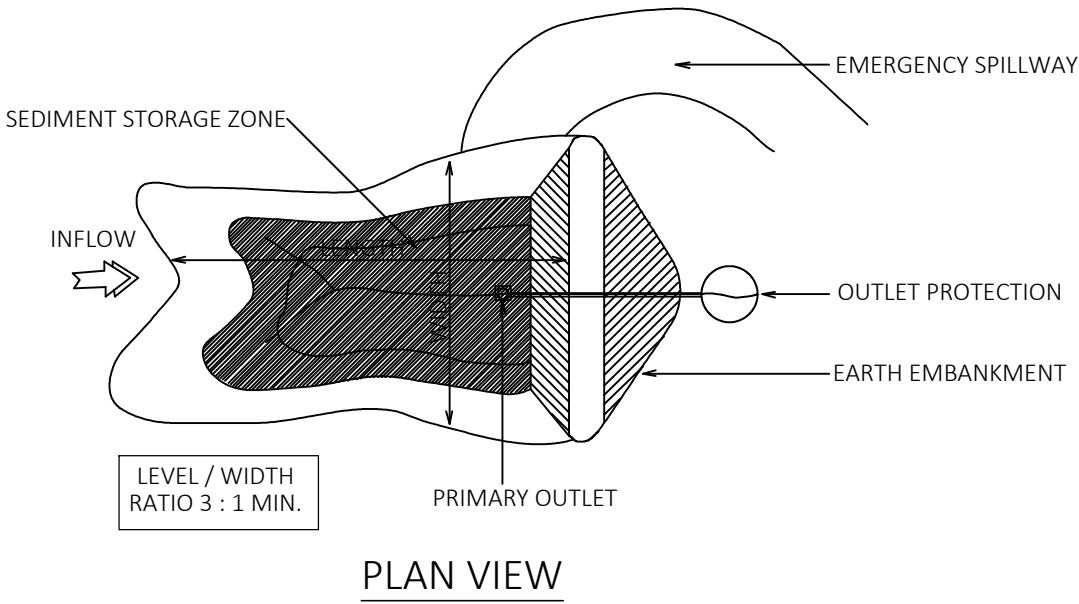
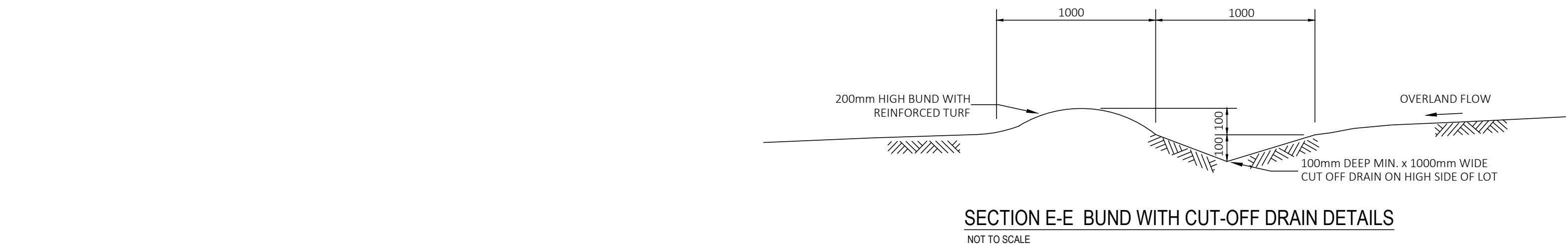
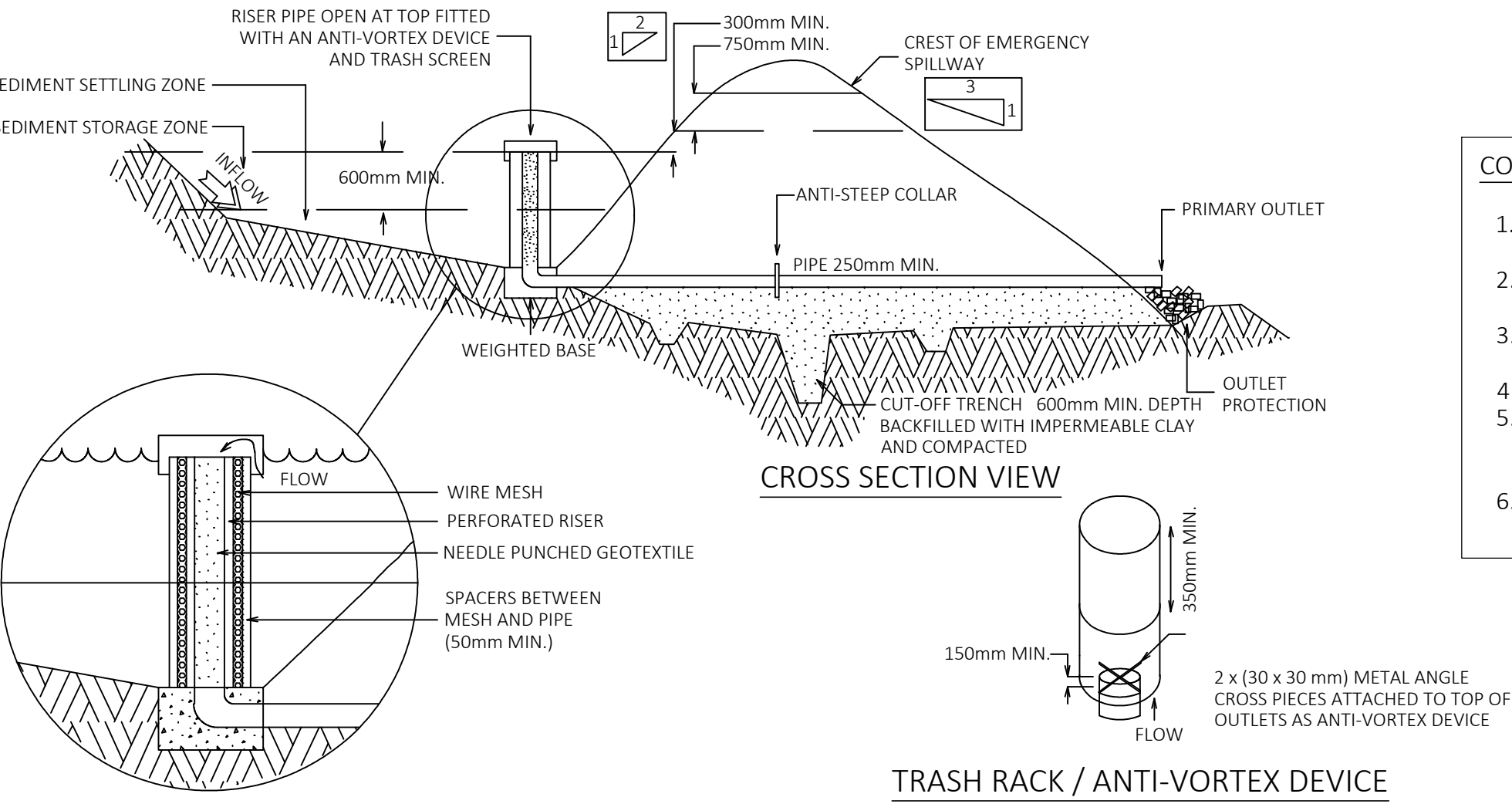
NOT FOR CONSTRUCTION

| | | | | | | | | | | | | |
|-------|--|-----------------|---|---|---------|--|--|---------------|----------------------------|--------------|---------------|--|
| E | Incorporate Council Comments | 28 July 2020 | <div>Drawn & Designed By : K. Koh</div> <div>Checked By : N. Evans</div> <div>Approved By :Kenneth T. NG MIEAust CPEng NER APEC Engineer IntPE(Aus) (Reg. No. 2206352) RPEQ Accredited Certifier (Cat. C1-C4, C6 & C15)(BPB No. 0827)</div> | <div>ING CONSULTING ENGINEERS PTY LTD</div> <div>P. O BOX 1543 BAULKHAM HILLS NSW 1755 F : (02) 8807 5656 M: 0433 778 109 E : ken@ingengineers.com.au</div> | Project | Proposed Mixed-Use Development | | Drawing Title | | Drawing List | | |
| D | Incorporate Council Comments of 5 May 2020 | 3 June 2020 | | | At | 90 - 98 Glenmore Ridge Drive Glenmore Park NSW 2745 | | Date | December 2018 | Scale | As Shown @ A0 | |
| C | Incorporate Council Comments of 22 Aug. 19 | 1 Nov. 2019 | | | Client | Mintus Pty Ltd | | Project No. | Drawing & Sheet No./ Issue | | | |
| B | Architectural Changes | 18 Apr. 2019 | | | | | | 116052018DA | 11605-00/9 / E | | | |
| A | Development Application | 1 Dec. 2018 | | | | | | | | | | |
| Issue | Description | Date of Drawing | | | | | | | | | | |

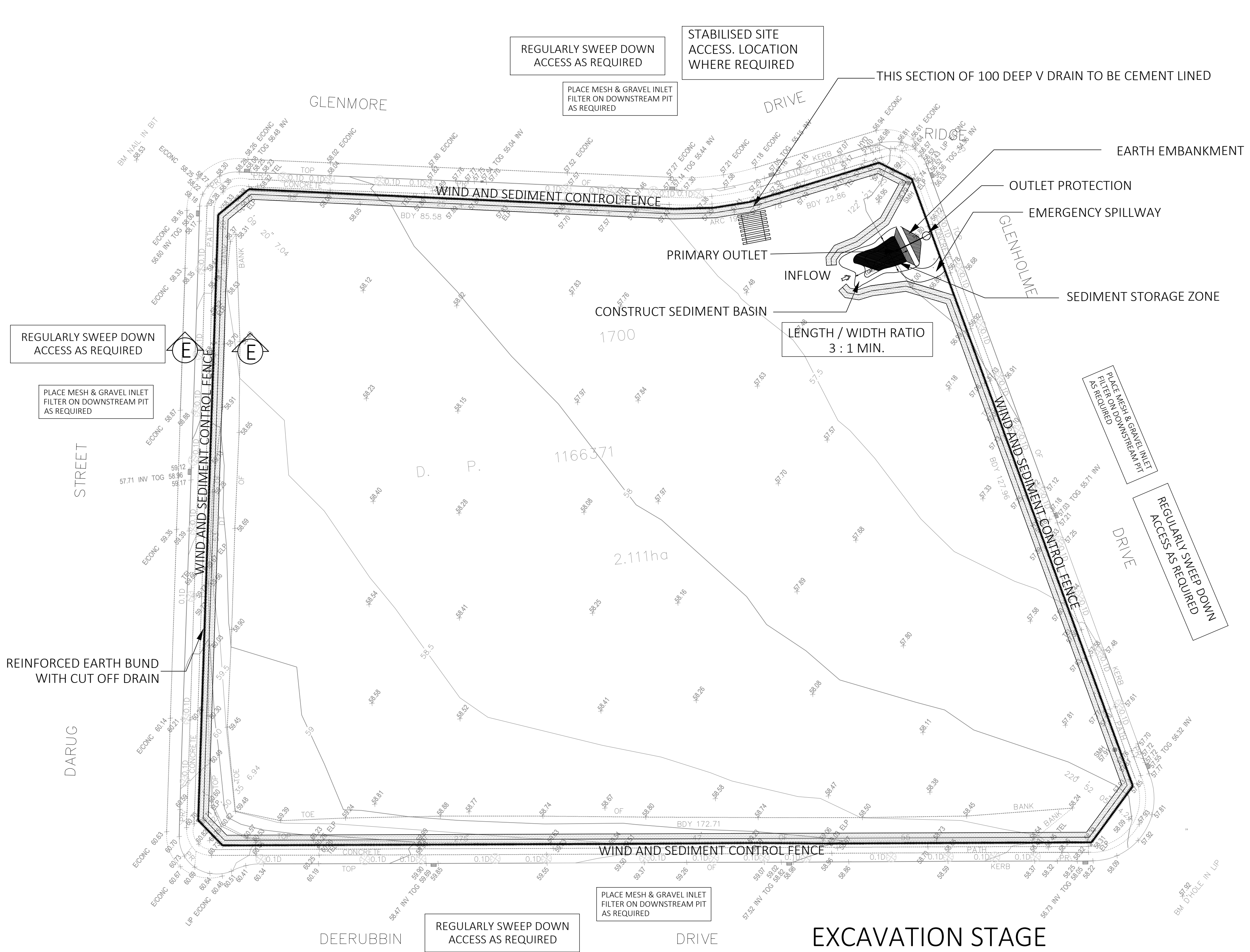
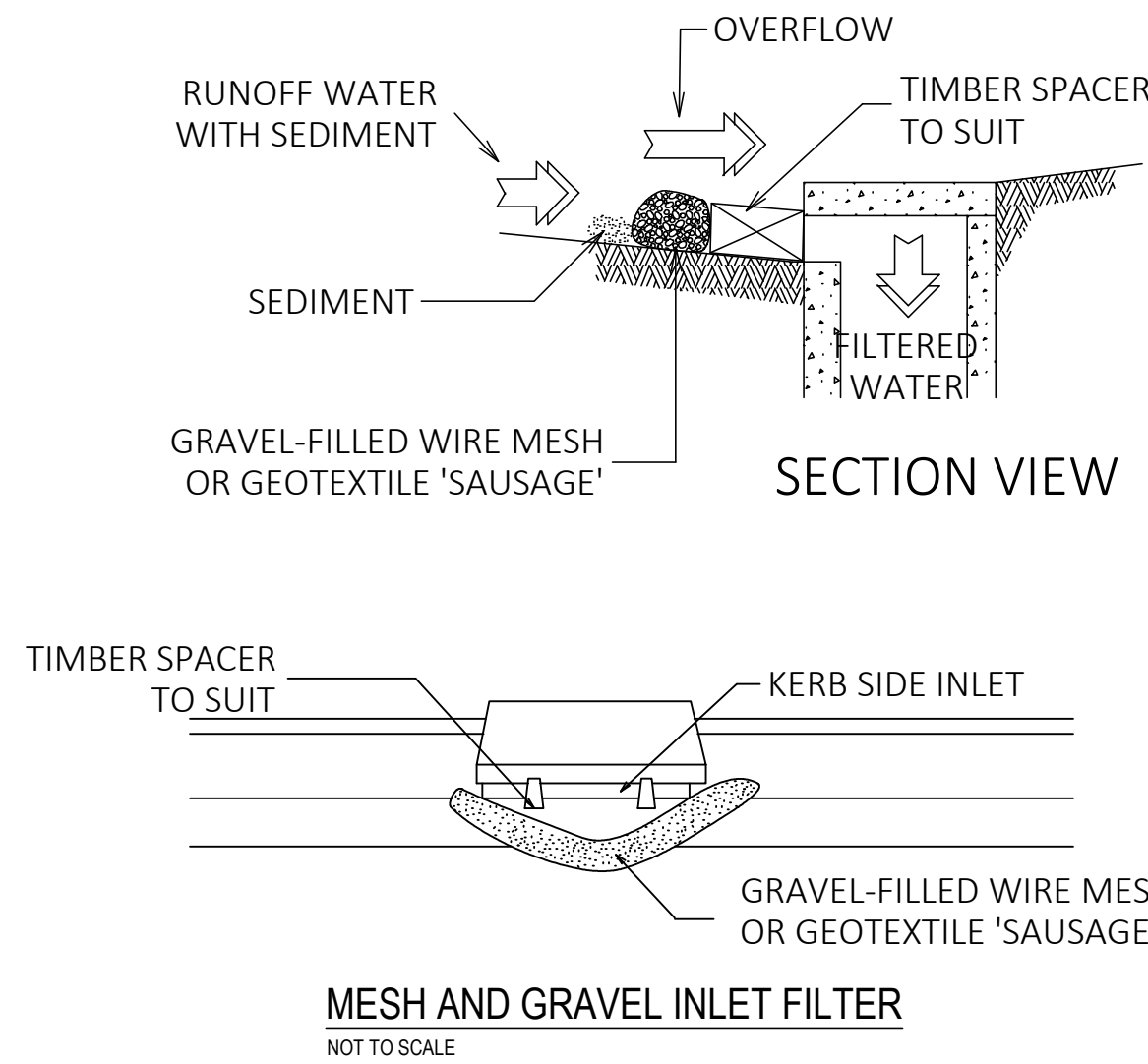
- EROSION AND SEDIMENT CONTROL
1. THE NOTES AND MEASURES STATED HEREAFTER SHALL BE READ IN CONJUNCTION WITH THE NSW PUBLICATION "MANAGING URBAN STORMWATER, SOILS & CONSTRUCTION, FOURTH EDITION 2004 VOLUME 1" PREPARED BY LANDCOM. PARTICULAR ATTENTION SHALL BE PAID TO CHAPTERS 6 & 8.
 2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR AND DURING THE CONSTRUCTION PERIOD. THESE CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED REGULARLY BY THE CONTRACTOR TO ENSURE THE EFFECTIVES OF THE SYSTEM, ESPECIALLY AFTER STORM EVENTS.
 3. ALL NECESSARY WORKS SHALL BE CARRIED OUT TO PREVENT EROSION, CONTAMINATION AND SEDIMENTATION OF THE PROJECT SITE AND ADJACENT PROPERTIES AND DRAINAGE SYSTEMS.
 4. MINIMISE DISTURBED AREAS COVERED WITH NATURAL VEGETATION, ONLY THOSE AREAS DIRECTLY REQUIRED FOR CONSTRUCTION ARE TO BE DISTURBED.
 5. DIVERT CLEAN WATER FROM UNDISTURBED AREAS AROUND THE WORKING AREAS.
 6. ADOPT TEMPORARY MEASURES AS MAY BE NECESSARY FOR EROSION AND SEDIMENT CONTROL, INCLUDING BUT NOT LIMITED TO THE FOLLOWING :
 - DRAINS - CONSTRUCT TEMPORARY DRAINS AND CATCH DRAINS
 - CONSTRUCT SPREADER BANKS OR OTHER STRUCTURES - DISPERSE CONCENTRATED RUN-OFF
 - SILT TRAPS - CONSTRUCT AND MAINTAIN SILT TRAPS TO PREVENT DISCHARGE OF SCOURED MATERIAL TO DOWNSTREAM AREAS
 - TEMPORARY FENCING - CONSTRUCT, MAINTAIN AND KEEP IN GOOD REPAIR ALL SILT AND WIND FENCES. CHECK AND CLAEIN FENCES FOLLOWING RIN AND STORM EVENTS
 - REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WHEN THEY ARE NO LONGER REQUIRED
 - ALL DISCOLOURED WATER SHALL BE TREATED TO EPA TANDARDS PRIOR TO DISCHARGE OFF SITE, OR ALTERNATIVELY REMOVED BY TANKER WITH A LICENSED TRADE WASTE COLLECTOR
 7. ALL STORMWATER INLET PITS ARE TO BE PROTECTED FILTER FABRIC DROP INLET SEDIMENT TRAPS OR GRAVEL SAUSAGE, WHICH IS BLUE METAL WRAPPED IN GEOTEXTILE FABRIC.
 8. STOCKPILED MATERIALS SHALL BE KEPT WITHIN THE SITE BOUNDARIES IN A POSITION NOT VULNERABLE TO CONCENTRATED SURFACE RUNOFF.

- DUST CONTROL:
1. DUST IS TO BE WELL CONTROLLED ON THE CONSTRUCTION SITE AT ALL TIMES, ESPECIALLY AT EXCAVATIONS, DEMOLITION ETC.
 2. WATER SPRAY TO BE USED TO CONTROL DUST ON DIRT/GRADED AREAS ONLY.
 3. CARE TO BE EXERCISED TO ENSURE WATER SPRAY DISPENSE ONLY SUFFICENT WATER FOR DUST CONTROL PURPOSES.
 4. CARE TO BE EXERCISED TO ENSURE ONLY OPTIMUM MOISTURE CONTENT OF THE SOIL IS REACHED FOR COMPACTION.
 5. FOR CONTROLLING DUST ON PAVED FOOTPATHS, A SWEEPER IS TO BE USED WITH WATER-JET SPRAYERS.
 6. NO SURFACE WATER RUN-OFF IS TO BE GENERATED.
 7. CARE IS TO BE EXERCISED TO ENSURE ONLY SUITABLE AMOUNTS OF WATER IS USED DURING SWEEPING.
 8. NO RUN-OFF FROM SPRAYERS TO FLOW INTO CATCH BASINS.
 9. MINIMISE THE AREAS OF EXISTING VEGETATED AREA THAT ARE DISTURBED DURING CONSTRUCTION.
 10. AREAS NOT BEING WORKED ON FOR 30 DAYS OR MORE ARE TO BE VEGETATED OR COVERED TO AVOID DUST GENERATION.
 11. SAND & SOIL STOCKPILE ARE TO BE SUFFICIENTLY COVERED DURING WEEKENDS AND AT TIMES WHEN WINDY CONDITIONS PREVAIL.

- CONSTRUCTION NOTES :
1. REMOVE ALL VEGETATION AND TOPSOIL UNDER THE DAM WALL AND FORM WITHIN STORAGE AREA.
 2. FORM CUT-OFF TRENCH UNDER THE CENTRELINE OF EMBANKMENT 600mm DEEP AND 1200mm WIDE EXTENDING TO A POINT ON A GULLY WALL ABOVE THE RISER SILL LEVEL.
 3. MAINTAIN THE TRENCH FREE OF WATER AND RE-COMPACT THE MATERIALS WITH EQUIPMENT AS SPECIFIED IN THE SWMP TO 95% STANDARD PROCTOR DENSITY.
 4. SELECT FILL ACCORDING TO THE DIRECTIONS OF THE SWMP THAT IS FREE FROM ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL.
 5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING AT LEAST 100mm DEEP TO HELP BOND COMPACTING FILL TO EXISTING SUBSTRATE.
 6. SPREAD FILL IN 100mm LAYERS AND COMPACT AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH THE SWMP.
 7. INSTALL PIPE OUTLET WITH SEEPAE COLLARS AS SPECIED IN SWMP.
 8. FORM BATTER GRADES AT 2(H):1(V) AND 3(H):1(V) DOWNSTREAM OR AS SPECIFIED IN THE SWMP.
 9. INSTALL PIPE RISER AS SPECIFIED IN THE SWMP.
 10. CONSTRUCT EMERGENCY SPILLWAY 300mm ABOVE SILL HEIGHT OF RISER.
 11. REHABILITATE STRUCTURE IN ACCORDANCE WITH THE SWMP.
 12. GEOTEXTILE TO BE REPLACED WITH SPECIFIC MATERIAL IF BASIN DOES NOT FREELY DRAIN WITHIN 4 DAYS.
 13. PLACE A "FULL OF SEDIMENT" MARKER TO SHOW WHEN LESS THAN DESIGN CAPACITY OCCURS AND SEDIMENT REMOVAL IS REQUIRED.



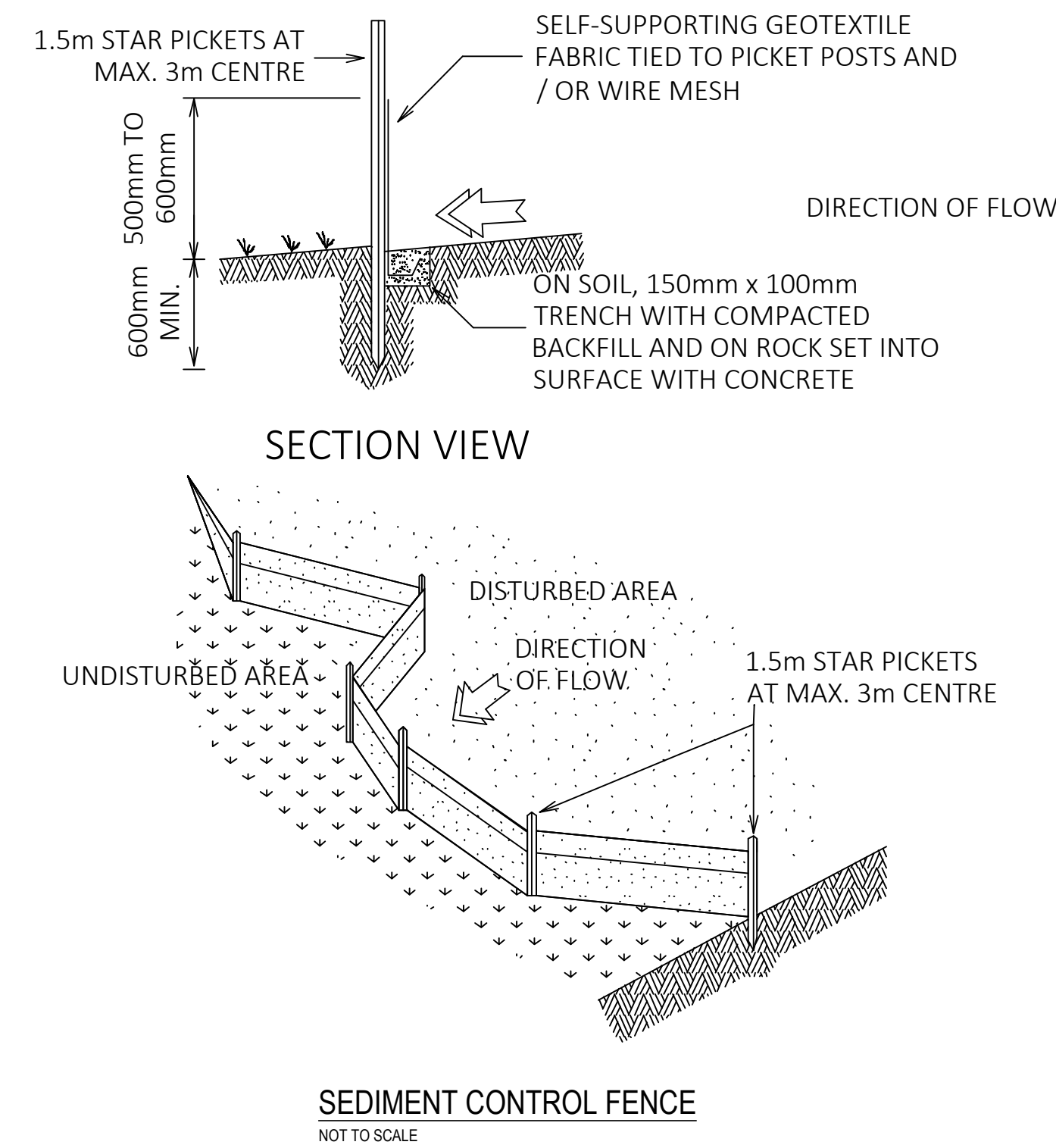
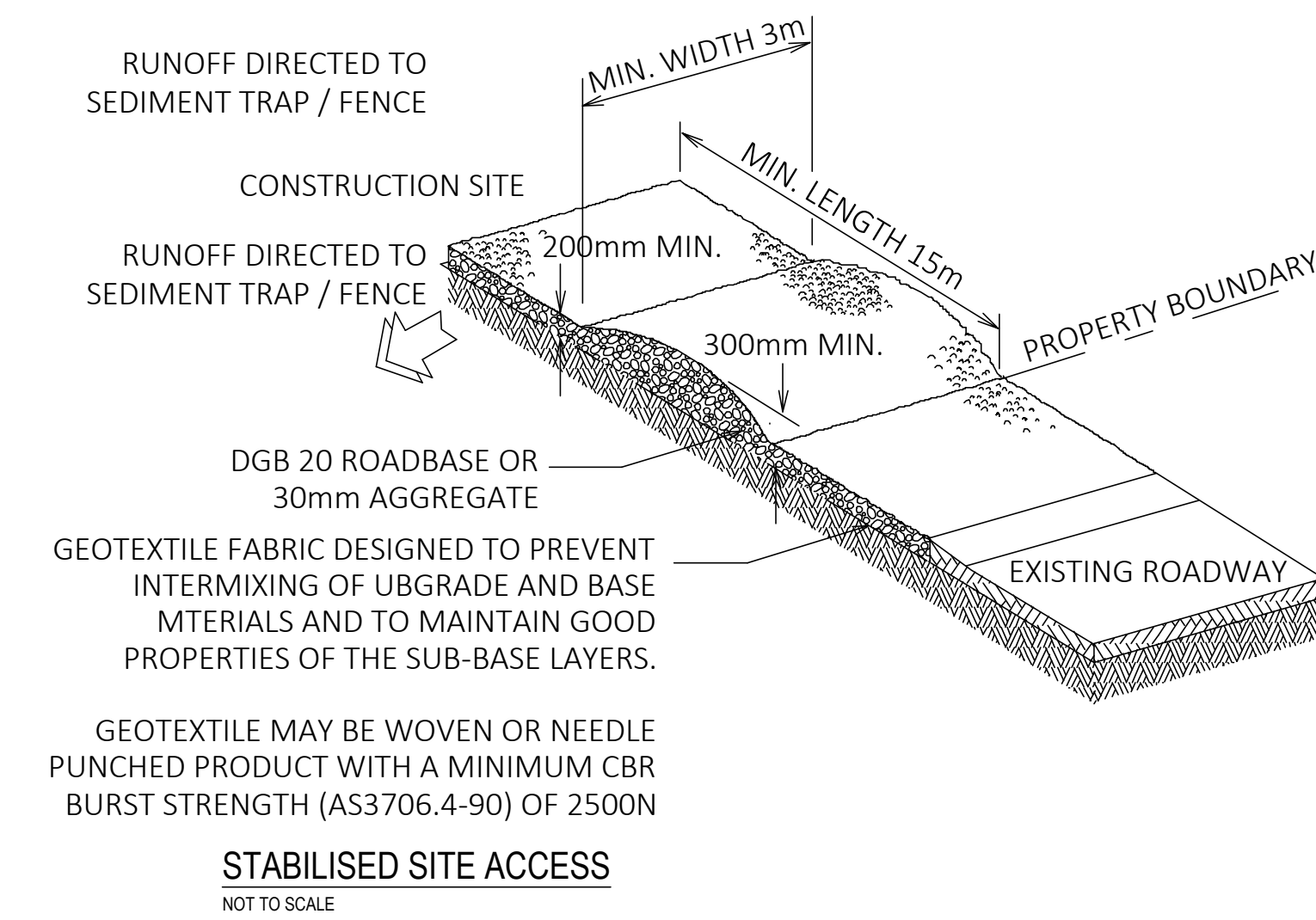
- CONSTRUCTION NOTES :
1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE PARALLEL TO THE CONTOURS OF THE SITE.
 2. DRIVE 1.5m LONG STAR PICKETS INTO THE GROUND AND SET 3m APART.
 3. DIG 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
 4. BACKFILL TRENCH OVER BASE OF FABRIC.
 5. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDES OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.
 6. JOIN SECTIONS OF FABRIC AS A SUPPORT POST WITH A 150mm OVERLAP.



EROSION & SEDIMENT CONTROL PLAN

SCALE : 1 : 500

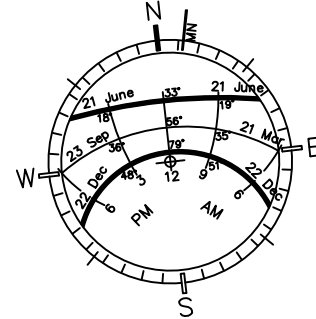
- CONSTRUCTION NOTES :
1. STRIP TOPSOIL AND LEVEL SITE.
 2. COMPACT SURGRADE.
 3. COVER AREA WITH NEEDLE PUNCHED GEOTEXTILE.
 4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING ROADBASE OR 30mm AGGREGATE MINIMUM LENGTH 15m OR TO BUILDING ALIGNMENT. MINIMUM WITH 3m.
 5. CONSTRUCT HUMPS IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR SEDIMENT TRAP.



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| A | Development Application | 1 Dec. 2018 |
| Issue | Description | Date of Drawing |

| | |
|-----------------------|--|
| Drawn & Designed By : | K. Koh |
| Checked By : | N. Evans |
| Approved By : | Kenneth T. NG MIEAust CPEng NER APEC Engineer IntPE(Aus) (Reg. No. 2206352) RPEQ Accredited Certifier (Cat. C1-C4, C6 & C15)(BPB No. 0827) |



ING CONSULTING ENGINEERS PTY LTD
P. O BOX 1543
BAULKHAM HILLS NSW 1755
F : (02) 8807 5656
M: 0433 778 109
E : ken@ingengineers.com.au

| | |
|---------|--|
| Project | Proposed Mixed-Use Development |
| At | 90 - 98 Glenmore Ridge Drive Glenmore Park NSW 2745 |
| Client | Mintus Pty Ltd |

| | |
|---|---------------------------------|
| VERIFY ALL DISCREPANCIES WITH PROJECT ARCHITECT/MANAGER PRIOR TO PROCEEDING WITH ANY WORKS. Do not scale off drawings. | |
| Drawing Title | Erosion & Sediment Control Plan |
| Date | December 2018 |
| Scale | As Shown @ A0 |
| Project No. | 116052018DA |
| Drawing & Sheet No./ Issue | 11605-01/9 / D |

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SECTION A-A 11.1m³ BASEMENT PUMP-OUT PIT DETAIL

Diagram illustrating a cross-section of a basement perimeter drainage system with a spoon drain outlet (SDO). The diagram shows the following components and layers:

- CONTIGUOUS PILING / RETAINING WALL OR SIMILAR:** The vertical structure on the left side of the excavation.
- 200 SPOON DRAIN WITH GRATED TRENCH DRAIN:** A horizontal drainage channel installed within the basement slab, featuring a spoon-shaped outlet for water collection.
- BASEMENT SLAB TO STRUCTURAL ENGINEER'S DETAIL MEMBRANE:** The concrete slab and its associated waterproofing membrane.
- 300 SLOTTED SUB-SOIL WITH FILTER SOCK TO STORMWATER DRAINAGE:** A layer of coarse aggregate with a filter sock, designed to collect water from the subsoil and direct it into the drainage system.
- SINGLE SIZED AGGREGATE BEDDING & SURROUND:** A layer of uniform aggregate material surrounding the drainage components.
- BOTTOM OF EXCAVATION:** The base of the foundation pit.

BASEMENT PERIMETER DRAINAGE WITH SPOON DRAIN OUTLET (SDO)

WARNING
PUMP-OUT SYSTEM
FAILURE IN BASEMENT
WHEN LIGHT IS
FLASHING AND SIREN
IS SOUNDING

BASEMENT PUMP-OUT FAILURE WARNING SIGN
NOT TO SCALE

DEEP SOIL ZONE 1797m²

AREAS TO BE BUNDED
DISCHARGED TO

NOTE :
WATERPROOFING TO WALLS &
SUB-SOIL SYSTEM TO BE SPECIFIED BY
STRUCTURAL ENGINEER TO CONNECT
INTO STORMWATER SYSTEM.

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ENGINEERS PTY LTD**
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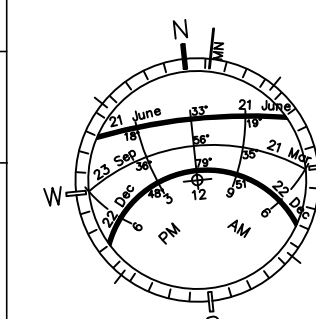
BASEMENT PLAN

SCALE : 1 : 200

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|----------------------------|--|
| Date December 2018 | Scale 1 : 200 @ A0 |
| Project No. 116052018DA | Drawing & Sheet No./ Iss 11605-02/9 / D |

| | | |
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NOTE :
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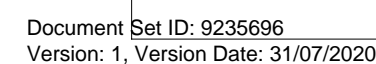
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| At | 90 - 98 Glenmore Ridge Drive Glenmore Park NSW 2745 |
| Client | Mintus Pty Ltd |

BASEMENT PLAN

SCALE : 1 : 200

| | |
|----------------------------|--|
| Date December 2018 | Scale 1 : 200 @ A0 |
| Project No. 116052018DA | Drawing & Sheet No./ Iss 11605-02/9 / D |



| | |
|------------------------------------|--|
| Drawing Title Ground Floor Plan | |
| Date December 2018 | Scale 1 : 200 @ A0 |
| Project No. 116052018DA | Drawing & Sheet No./ Issue 11605-03/9 / E |

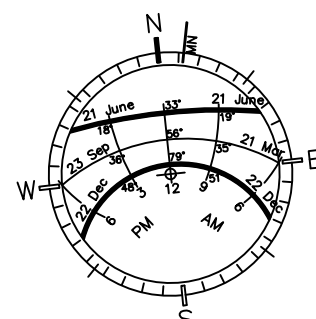
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DEERUBBIN DRIVE

| | | |
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F : (02) 8807 5656
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|---------|--|---------------|---------------|--|
| Project | Proposed Mixed-Use Development | Drawing Title | | Roof Plan |
| At | 90 - 98 Glenmore Ridge Drive Glenmore Park NSW 2745 | Date | December 2018 | Scale 1 : 200 @ A0 |
| Client | Mintus Pty Ltd | Project No. | 116052018DA | Drawing & Sheet No./ Issue 11605-05/9 / D |

LEGEND

PIPEWORK:

- SUB-SOIL
- 300 DIA. U.P.V.C. STORMWATER PIPE
- U.N.G. WITH 1% GRADE (MIN.)
- TRUNK MAIN
- SILT AND DUST FENCE
- EXISTING STORMWATER PIPE
- EXISTING STORMWATER TO BE REMOVED
- RISE IN SERVICE

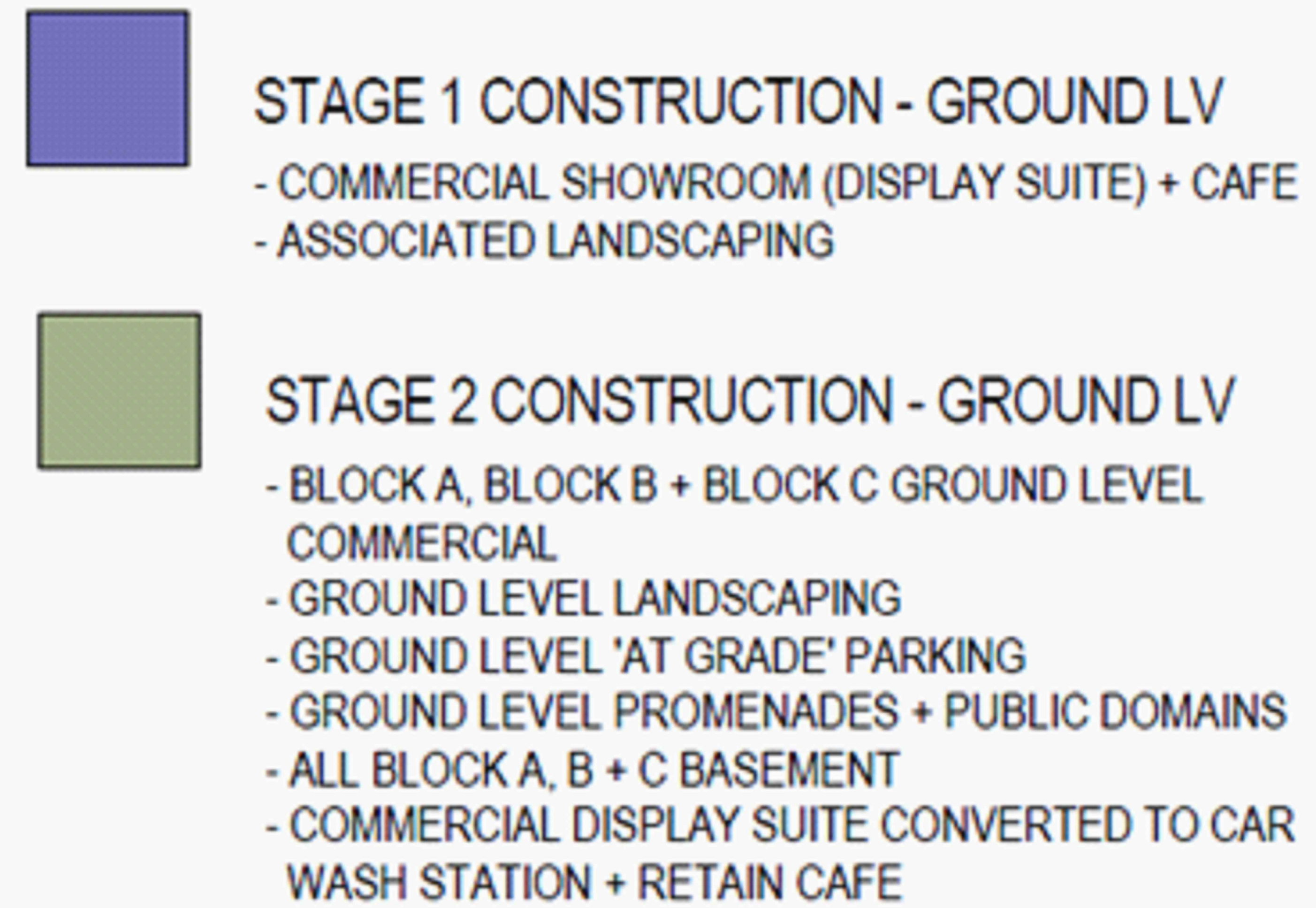
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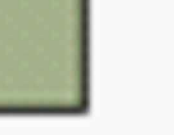
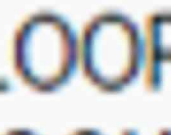
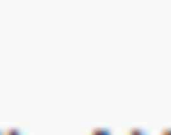
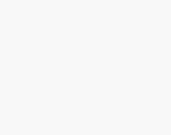
-  DOWNPIPE (300 DIA. U.N.O.)
-  DOWNPIPE AND SPREADER
-  PLANTER BOX DRAINAGE OUTLET (300 DIA. U.N.O.)
-  RAINWATER OUTLET (150 GRATE U.N.O.)
-  BALCONY RAINWATER OUTLET (300 GRATE U.N.O.)
-  OVERFLOW SPITTER (300 DIA. U.N.O.)
-  GRATED INLET PIT (ENISO MIN. U.N.O.)
-  COACRETED CONCRETE FUNCTION PIT
-  GRATED TRENCH DRAIN (150 WIDE U.N.O.)
-  KERB INLET PIT
-  STORMWATER PUMPWELL

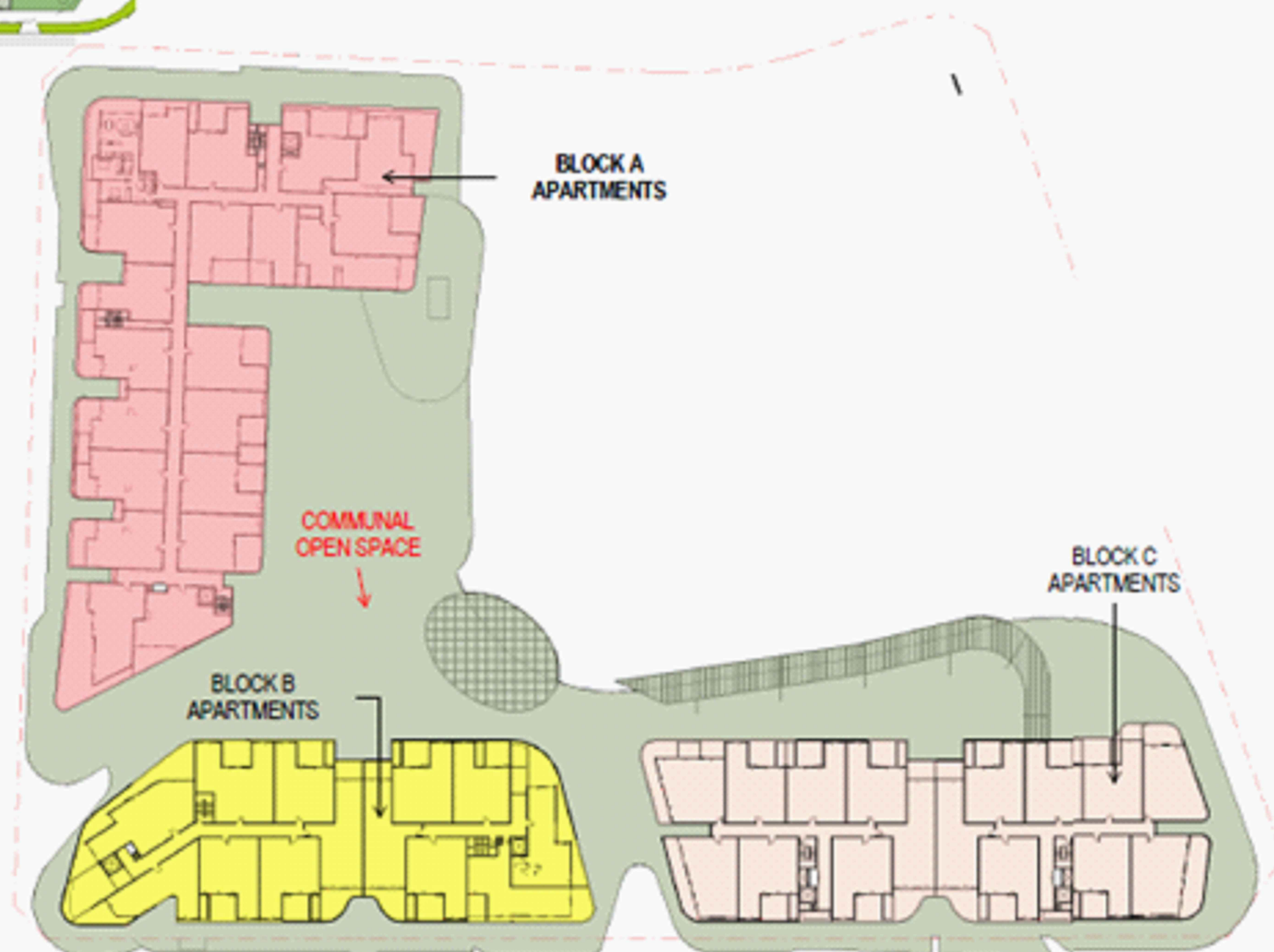
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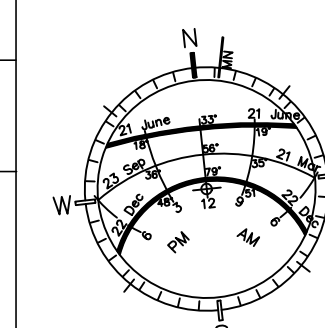
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-  STAGE 2 CONSTRUCTION - LEVEL 1
 - FIRST FLOOR SLAB
 - ALL ASSOCIATED RETAIL AWNINGS
 - ALL COMMERCIAL SIGNAGES
 - ALL ASSOCIATED PLANTERS
-  STAGE 3 CONSTRUCTION - LEVEL 1 + 2 + 3
 - BLOCK A RESIDENTIAL APARTMENTS
-  STAGE 4 CONSTRUCTION - LEVEL 1 + 2 + 3
 - BLOCK B RESIDENTIAL APARTMENTS
-  STAGE 5 CONSTRUCTION - LEVEL 1 + 2 + 3
 - BLOCK C RESIDENTIAL APARTMENTS



| | |
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| Project | Proposed Mixed-Use Development | Drawing Title Staging Plan | |
| At | 90 - 98 Glenmore Ridge Drive Glenmore Park NSW 2745 | Date December 2018 | Scale Not to Scale @ A0 |
| Client | Mintus Pty Ltd | Project No. 116052018DA | Drawing & Sheet No./ Issue 11605-06/9 / D |

ABBREVIATIONS:

| | |
|------------|------------------------------------|
| APVC | UNPLASTICIZED POLY(VINYL CHLORIDE) |
| PVC | POLY(VINYL CHLORIDE) |
| HP | HIGH STRENGTH POLY(ETHYLENE) |
| FRC | FIBER REINFORCED CONCRETE |
| PE | POLY(ETHYLENE) |
| CS | COPPER |
| OP | OLAPINE |
| MM | POWDER MIX |
| BN | BENZONITRILE |
| SWT | SWITCH |
| DMT | DEMONSTRATOR TANK |
| TG | TUNGSTEN |
| TP | THERMOPLASTIC |
| D.T.T.A.K. | EXPANDED TUNGSTEN IN POINT |
| SA | SACRED TUNGSTEN |
| WGO | WATERPROOFING OUTLET |
| PS | POLYSTYRENE |
| PSO | PLASTER BOU OUTLET |
| SO | SUCKER PLANT |
| HL | HEAVY LIFT |
| RL | REDUCED LEVEL |
| SL | SURFACE LEVEL |
| FTL | FAIRLY GOOD LEVEL |
| HL | HIGH LEVEL |
| LL | LOW LEVEL |
| TL | TOP OF TANK |
| US | UNDERGIRD |
| MC | MISCELLANEOUS IN WETTED/SLASH |
| CS | CUT IN SLASH |
| CS | CUT IN COLLAR |
| CS | CRUTTING |
| DM | DEMONSTRATOR |
| MMT | METAL |
| PS | PLASTIC |
| SL | SQUARE |
| MM | MISCELLANEOUS OTHERWISE |
| MM | SCHEMATIC TYPE DISCHARGE |
| MM | SCHEMATIC TYPE DISCHARGE |

VERIFY ALL DISCREPANCIES WITH PROJECT ARCHITECT/MANAGER PRIOR TO PROCEEDING WITH ANY WORK.

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MUSIC-link Report

| Project Details | | Company Details | |
|--------------------------|---|-----------------|----------------------------------|
| Project: | 90 - 98 Glenmore Ridge Drive, Glenmore Park | Company: | ING CONSULTING ENGINEERS PTY LTD |
| Report Export Date: | 4/06/2020 | Contact: | Kenneth Ng |
| Catchment Name: | 11910 - 90 - 98 Glenmore Ridge Drive | Address: | NA |
| Catchment Area: | 2.11ha | Phone: | 0433 778 109 |
| Impervious Area*: | 76.18% | Email: | ken@ingengineers.com.au |
| Rainfall Station: | 67113 PENRITH | | |
| Modelling Time-step: | 6 Minutes | | |
| Modelling Period: | 1/01/1999 - 31/12/2008 11:54:00 PM | | |
| Mean Annual Rainfall: | 691mm | | |
| Evapotranspiration: | 1158mm | | |
| MUSIC Version: | 6.3.0 | | |
| MUSIC-link data Version: | 6.31 | | |
| Study Area: | Penrith | | |
| Scenario: | Penrith Development | | |

* takes into account area from all source nodes that link to the chosen reporting node, excluding Import Data Nodes

| Treatment Train Effectiveness | | Treatment Nodes | | Source Nodes | |
|-------------------------------|-----------|--------------------------|--------|-------------------|--------|
| Node: 8560/45 | Reduction | Node Type | Number | Node Type | Number |
| Flow | 6.24% | Sedimentation Basin Node | 1 | Urban Source Node | 8 |
| TSS | 85.4% | Rain Water Tank Node | 1 | | |
| TP | 67.1% | GPT Node | 2 | | |
| TN | 47.7% | Generic Node | 1 | | |
| GP | 99.8% | | | | |

Comments

- Roof node base flow values are as per the MUSIC modelling guidelines which indicate base flow has no effect for impervious areas and therefore no value is needed.
- The 'SF Chamber' detention node (sedimentation basin) has been modified to represent a tank to hold volume for use with the Ocean Protect filter. k values has been set to 1 to prevent the tank from "treating" the flow as it would within a grassed above ground OSD.

NOTE: A successful self-validation check of your model does not constitute an approved model by Penrith City Council
MUSIC-link now in MUSIC by eWater – leading software for modelling stormwater solutions

1 of 3

| Passing Parameters | | | | | |
|--------------------|--|------------------------------|------|------|---------------------|
| Node Type | Node Name | Parameter | Min | Max | Actual |
| GPT | OceanGuards (20) | H flow bypass rate (cum/sec) | None | 99 | 0.4 |
| GPT | OceanGuards (9) | H flow bypass rate (cum/sec) | None | 99 | 0.18 |
| Receiving | 8560/45 | % Load Reduction | None | None | 6.24 |
| Receiving | 8560/45 | GP % Load Reduction | 90 | None | 99.8 |
| Receiving | 8560/45 | TN % Load Reduction | 45 | None | 47.7 |
| Receiving | 8560/45 | TP % Load Reduction | 60 | None | 67.1 |
| Receiving | 8560/45 | TSS % Load Reduction | 85 | None | 85.4 |
| Sedimentation | 15m | High Flow Bypass Out (ML/yr) | None | None | 0 |
| Urban | Carpark - 6299m (90% Imp.) | Area Impenious (ha) | None | None | 0.567 |
| Urban | Carpark - 6299m (90% Imp.) | Area Penious (ha) | None | None | 0.06299999999999999 |
| Urban | Carpark - 6299m (90% Imp.) | Total Area (ha) | None | None | 0.63 |
| Urban | Carpark Above OSD BYPASS - 43m (100% Imp.) | Area Impenious (ha) | None | None | 0.004 |
| Urban | Carpark Above OSD BYPASS - 43m (100% Imp.) | Area Penious (ha) | None | None | 0 |
| Urban | Carpark Above OSD BYPASS - 43m (100% Imp.) | Total Area (ha) | None | None | 0.004 |
| Urban | Carpark Above OSD BYPASSING HED - 647m (100% Imp.) | Area Impenious (ha) | None | None | 0.065 |
| Urban | Carpark Above OSD BYPASSING HED - 647m (100% Imp.) | Area Penious (ha) | None | None | 0 |
| Urban | Carpark Above OSD BYPASSING HED - 647m (100% Imp.) | Total Area (ha) | None | None | 0.065 |
| Urban | Carpark Above OSD to filters - 540m (100% Imp.) | Area Impenious (ha) | None | None | 0.054 |
| Urban | Carpark Above OSD to filters - 540m (100% Imp.) | Area Penious (ha) | None | None | 0 |
| Urban | Carpark Above OSD to filters - 540m (100% Imp.) | Total Area (ha) | None | None | 0.054 |
| Urban | Carpark Above OSD to the top 2 pits - 313m (100% Imp.) | Area Impenious (ha) | None | None | 0.031 |
| Urban | Carpark Above OSD to the top 2 pits - 313m (100% Imp.) | Area Penious (ha) | None | None | 0 |
| Urban | Carpark Above OSD to the top 2 pits - 313m (100% Imp.) | Total Area (ha) | None | None | 0.031 |
| Urban | Landscape - 4670m (10% Imp.) | Area Impenious (ha) | None | None | 0.047 |
| Urban | Landscape - 4670m (10% Imp.) | Area Penious (ha) | None | None | 0.419 |
| Urban | Landscape - 4670m (10% Imp.) | Total Area (ha) | None | None | 0.467 |
| Urban | Pedestrian Paved - 2036m (90% Imp.) | Area Impenious (ha) | None | None | 0.184 |
| Urban | Pedestrian Paved - 2036m (90% Imp.) | Area Penious (ha) | None | None | 0.019 |
| Urban | Pedestrian Paved - 2036m (90% Imp.) | Total Area (ha) | None | None | 0.204 |
| Urban | Roof - 6545m (100% Imp.) | Area Impenious (ha) | None | None | 0.655 |
| Urban | Roof - 6545m (100% Imp.) | Area Penious (ha) | None | None | 0 |
| Urban | Roof - 6545m (100% Imp.) | Total Area (ha) | None | None | 0.655 |

Only certain parameters are reported when they pass validation

NOTE: A successful self-validation check of your model does not constitute an approved model by Penrith City Council
MUSIC-link now in MUSIC by eWater – leading software for modelling stormwater solutions

2 of 3

| Falling Parameters | | | | | |
|--------------------|--------------------------|---|-------|-------|--------|
| Node Type | Node Name | Parameter | Min | Max | Actual |
| Rain | 1 x 40kL | % Reuse Demand Met | 80 | None | 72.61 |
| Sedimentation | 15m | Nominal Detention Time (hrs) | 8 | 12 | 0.0756 |
| Sedimentation | 15m | Total Nitrogen - k (m/yr) | 500 | 500 | 1 |
| Sedimentation | 15m | Total Phosphorus - k (m/yr) | 6000 | 6000 | 1 |
| Sedimentation | 15m | Total Suspended Solids - k (m/yr) | 8000 | 8000 | 1 |
| Urban | Roof - 6545m (100% Imp.) | Baseflow Total Nitrogen Mean (log mg/L) | 0.11 | 0.11 | 0 |
| Urban | Roof - 6545m (100% Imp.) | Baseflow Total Nitrogen Standard Deviation (log mg/L) | 0.12 | 0.12 | 0 |
| Urban | Roof - 6545m (100% Imp.) | Baseflow Total Phosphorus Mean (log mg/L) | -0.85 | -0.85 | 0 |
| Urban | Roof - 6545m (100% Imp.) | Baseflow Total Phosphorus Standard Deviation (log mg/L) | 0.19 | 0.19 | 0 |
| Urban | Roof - 6545m (100% Imp.) | Baseflow Total Suspended Solids Mean (log mg/L) | 1.2 | 1.2 | 0 |
| Urban | Roof - 6545m (100% Imp.) | Baseflow Total Suspended Solids Standard Deviation (log mg/L) | 0.17 | 0.17 | 0 |

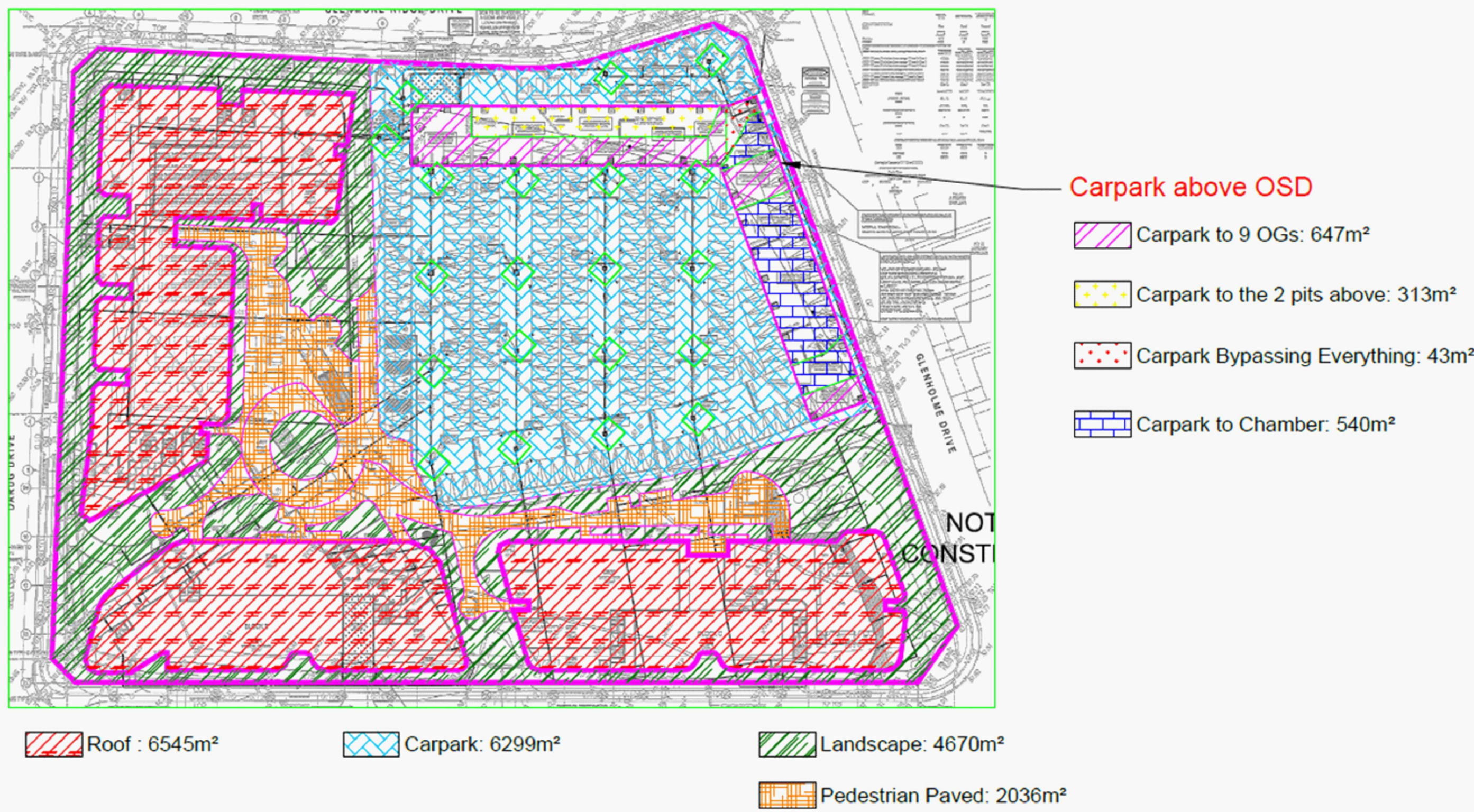
Only certain parameters are reported when they pass validation

NOTE: A successful self-validation check of your model does not constitute an approved model by Penrith City Council
MUSIC-link now in MUSIC by eWater – leading software for modelling stormwater solutions

3 of 3

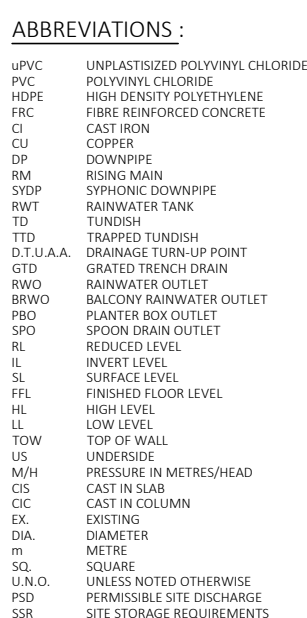
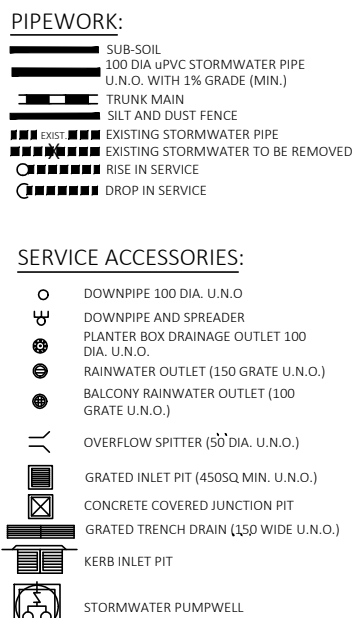
NOT FOR CONSTRUCTION

MUSIC Model Site Area Breakup



11910 - 90 - 98 Glenmore Ridge Drive, Glenmore Park (Rev4 - Site Area Breakup)

LEGEND



VERIFY ALL DISCREPANCIES WITH PROJECT ARCHITECT/MANAGER PRIOR TO PROCEEDING WITH ANY WORK. Do not scale off drawings.

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| | | |
|-------|--|-----------------|
| D | Incorporate Council Comments of 5 May 2020 | 3 June 2020 |
| C | Incorporate Council Comments of 22 Aug. 19 | 1 Nov. 2019 |
| B | Architectural Changes | 18 Apr. 2019 |
| A | Development Application | 1 Dec. 2018 |
| Issue | Description | Date of Drawing |

| | |
|-----------------------|--|
| Drawn & Designed By : | K. Koh |
| Checked By : | N. Evans |
| Approved By : | Kenneth T. NG MIEAust CPEng NER APEC Engineer IntPE(Aus) (Reg. No. 2206352) RPEQ Accredited Certifier (Cat. C1-C4, C6 & C15)(BPB No. 0827) |

ING CONSULTING
ENGINEERS PTY LTD
P.O. BOX 1543
BAULKHAM HILLS NSW 1755
F : (02) 8807 5656
M: 0433 778 109
E : ken@ingengineers.com.au

| | |
|---------|--|
| Project | Proposed Mixed-Use Development |
| At | 90 - 98 Glenmore Ridge Drive Glenmore Park NSW 2745 |
| Client | Mintus Pty Ltd |

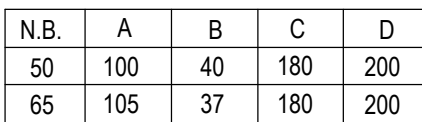
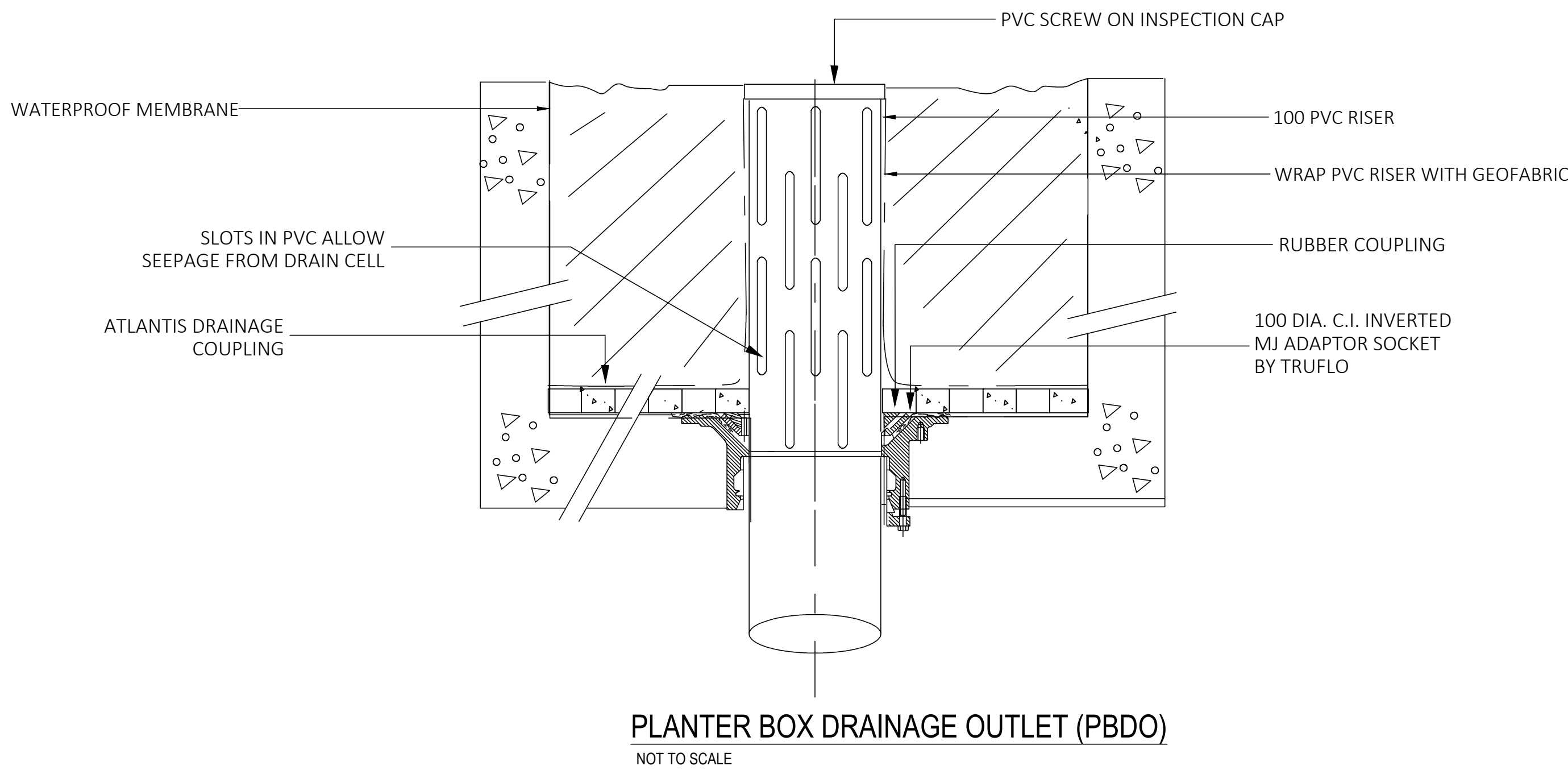
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|---------------|---------------|
| Drawing Title | Water Quality |
|---------------|---------------|

| | | | |
|-------------|---------------|----------------------------|----------------|
| Date | December 2018 | Scale | As Shown @ A0 |
| Project No. | 116052018DA | Drawing & Sheet No./ Issue | 11605-07/9 / D |

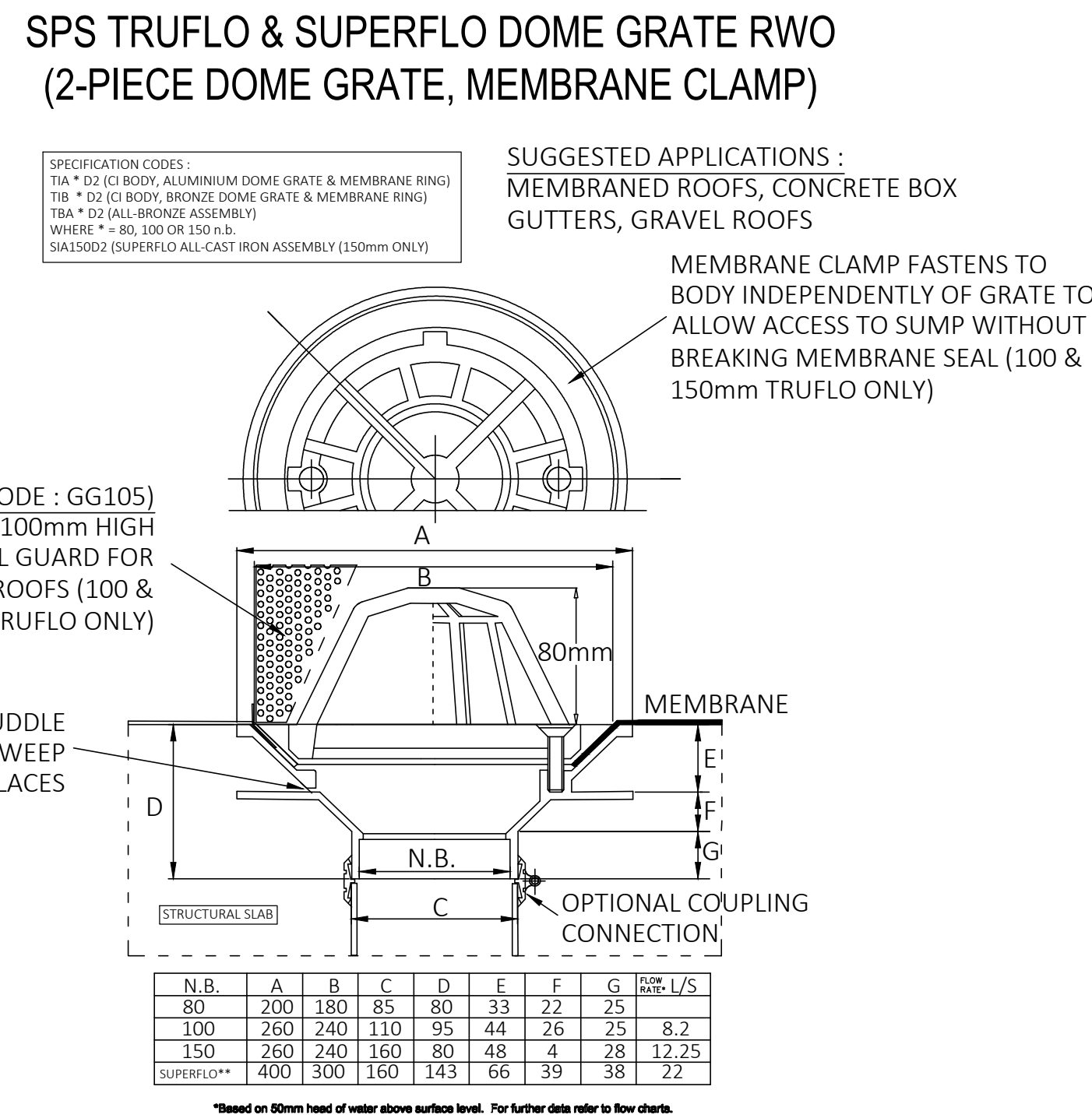
1. THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORKS.
2. ALL WORKS ARE TO BE CARRIED OUT TO THE DETAILS SHOWN ON THE DRAWINGS.
3. THESE PLANS ARE READ IN CONJUNCTION WITH APPROVED ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND SPECIFICATIONS.
4. CARE IS TO BE TAKEN WHEN EXCAVATING NEAR SERVICES. NO MECHANICAL EXCAVATION ARE TO BE UNDERTAKEN OVER TELECOMMUNICATION OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS ONLY.
5. DIAL 1100 BEFORE YOU DIG FOR LOCATION OF UNDERGROUND SERVICES PRIOR TO ANY CONSTRUCTION WORKS.
6. SERVICES HAVE NOT BEEN SHOWN ON THIS PLAN. FIELD INVESTIGATIONS ARE TO BE CARRIED OUT SEPARATELY TO DETERMINE EXACT POSITIONS OF SERVICES OR INFORMATION IS TO BE PROVIDED BY THE PROPERTY PROPRIETOR. NOT WITHSTANDING THIS, ALL INFORMATION PROVIDED SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION WORKS.
7. THESE DRAWINGS ARE ONLY APPROVED WHEN THEY ARE SIGNED WITH AN ORIGINAL SIGNATURE BY THE ENGINEER.

8. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS 3500 AND THE REQUIREMENTS OF THE LOCAL COUNCIL'S POLICIES AND CODES.
9. ALL GUTTERS TO BE 100 x 75 MIN. AND DOWNPIPES TO BE 100 x 75 (76 DIA.) UNLESS OTHERWISE NOTED.
10. ALL PIPES TO BE 100mm uPVC SEWER GRADE UNLESS NOTED OTHERWISE.
11. ALL GRADIENTS FOR STORMWATER PIPES TO BE NOT LESS THAN 1.0% UNLESS NOTED OTHERWISE.
12. THE INVERTS OF ALL OUTLET PIPES ARE TO BE INSTALLED FLUSHED WITH THE BASE OF ALL STORMWATER/RAINWATER PIT.
13. ALL FENCES SHALL BE KEPT AT LEAST 100mm ABOVE THE GROUND LEVEL TO FACILITATE THE FREE PASSAGE FOR STORMWATER OVERLAND FLOW.
14. MANUFACTURER'S CERTIFICATE SHALL BE OBTAINED BY THE BUILDER FOR PIPES, PRE-CAST PITS AND GRATES FOR THE STRUCTURAL ADEQUACY RELATING TO ITS LOCATION.
15. AREAS SPREAD WITH BARK SHALL BE BARRICADED TO PREVENT BARK GETTING INTO THE PITS AND STORMWATER SYSTEMS.
16. MINIMUM SLOPE FOR PAVED AREAS SHALL BE 0.5%, FOR LANDSCAPED AREAS MINIMUM SLOPE SHALL BE 1% AND GRADED TOWARDS THE GRATED PITS.
17. ALL EXCAVATIONS WITHIN THE INFLUENCE OF BUILDINGS AND SERVICES SHALL BE UNDERTAKEN WITH THE KNOWLEDGE OF THE HYDRAULIC AND STRUCTURAL ENGINEER.
18. THE DETENTION AND DRAINAGE SYSTEM SHALL BE MAINTAINED AT REGULAR INTERVALS AND THE CONTRACTOR SHALL MAKE NECESSARY ARRANGEMENTS.
19. CONNECTION OF DISCHARGE PIPE TO EXISTING COUNCIL KERB AND GUTTER, PIPE OR KERB INLET PIT SHALL BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS.
20. PROVIDE STEP-IRONS 'MASCOT S1:104' OR SIMILAR STAGGERED TO GIVE SPACING 300 VERTICAL AND 220 HORIZONTAL TO ALL PIT DEEPER THAN 1m .
21. SUITABLE AG-LINES SHALL BE PROVIDED AND CONNECTED TO STORMWATER SYSTEM OR AS INSTRUCTED BY THE ENGINEER ON SITE PRIOR TO BACKFILLING.

22. DRAWING IS TO BE READ IN CONJUNCTION WITH SYDNEY WATER'S "PLUMBING REQUIREMENTS - GUIDELINES FOR RAINWATER TANKS ON RESIDENTIAL PROPERTIES".
23. ALL PLUMBING WORK UNDERTAKEN ON OR FOR THE TANK THAT AFFECTS THE WATER SERVICE PIPE OR WATER MAIN MUST BE UNDERTAKEN WITH THE CONSENT OF SYDNEY WATER IN ACCORDANCE WITH THE REQUIREMENTS OF SYDNEY WATER, AND THE MANUFACTURER'S SPECIFICATIONS.
24. ALL PLUMBING WORKS UNDERTAKEN SHALL BE UNDERTAKEN BY A LICENSED PLUMBER IN ACCORDANCE WITH THE NEW SOUTH WALES CODE OF PRACTICE - PLUMBING AND DRAINAGE PRODUCED BY THE COMMITTEE ON UNIFORMITY OF PLUMBING AND DRAINAGE REGULATIONS IN NEW SOUTH WALES.
25. ALL PLUMBING MUST BE COMPLETED BY A LICENSED PLUMBER IN COMPLIANCE WITH AS/NZS3500.5, AND ANY OTHER RELEVANT NATIONAL STANDARDS.
26. INLET TO THE RAINWATER TANKS MUST BE SCREENED OR FILTERED TO PREVENT ENTRY OF FOREIGN MATTER AND CREATURES.
27. THE RAINWATER TANKS MUST BE MAINTAINED AT ALL TIMES SO AS NOT TO CAUSE A NUISANCE WITH RESPECT TO MOSQUITO BREEDING OR OVERLAND FLOW OF WATER.
28. A SIGN MUST BE AFFIXED TO THE RAINWATER TANKS CLEARLY STATING THAT THE WATER IN THE TANKS IS RAINWATER.
29. BOTH THE RE-USE AND ANY FITTINGS CONNECTED TO THE RAINWATER TANKS MUST BE LABELED "RAINWATER , NOT SUITABLE FOR DRINKING".
30. ALL ROOF GUTTERS ARE TO BE FITTED WITH LEAF GUARDS AND INSPECTED REGULARLY AND CLEANED TO ENSURE LEAF LITTER CANNOT ENTER THE DOWNPIPES.
31. PRESSURE PUMP ELECTRICAL CONNECTION TO BE CARRIED OUT BY A LICENSED ELECTRICIAN.



NOT TO SCALE



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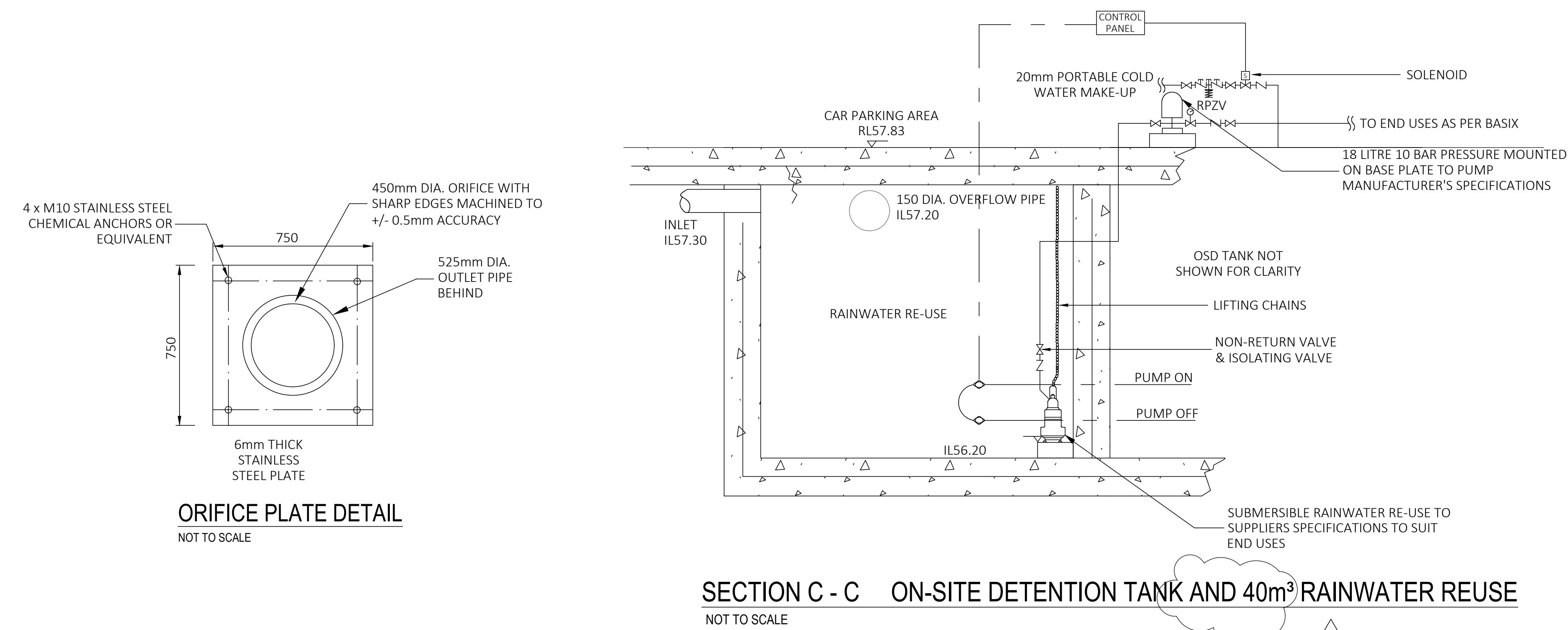
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|-----------------------|--|
| Drawn & Designed By : | K. Koh |
| Checked By : | N. Evans |
| Approved By : | Kenneth T. NG MIEAust CPeng NER APEC Engineer IntPE(Aus) (Reg. No. 2206352) RPEQ Accredited Certifier (Cat. C1-C4, C6 & C15)(BPB No. 0827) |

| | | | |
|---------------|---------------|----------------------------|----------------|
| Drawing Title | | Notes & Details | |
| Date | December 2018 | Scale | As Shown @ A0 |
| Project No. | 116052018DA | Drawing & Sheet No./ Issue | 11605-08/9 / D |

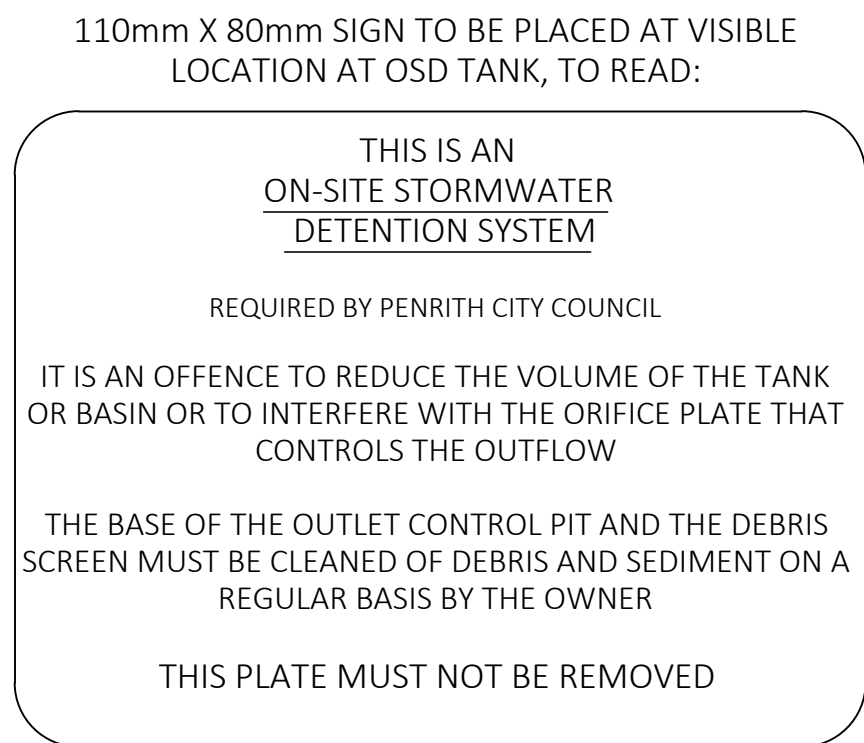
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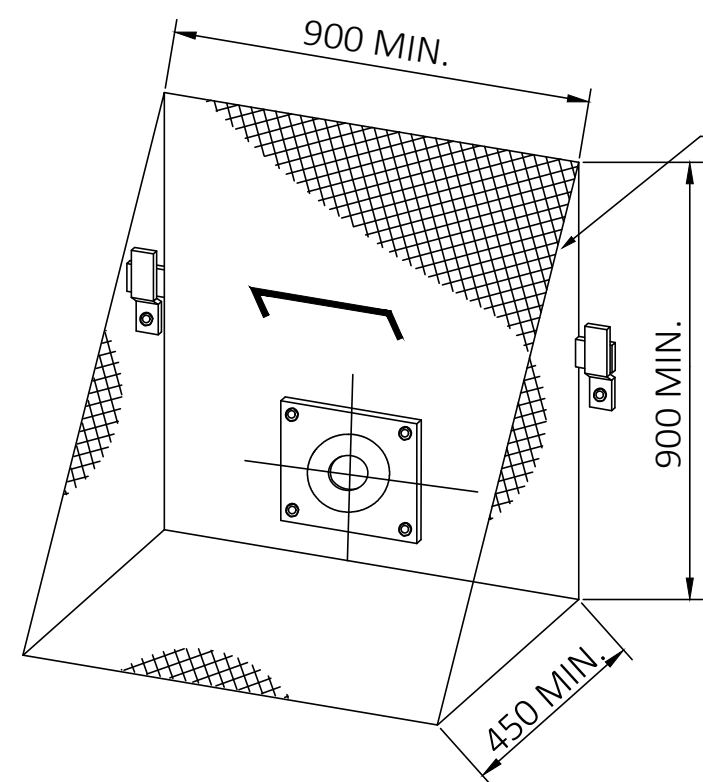
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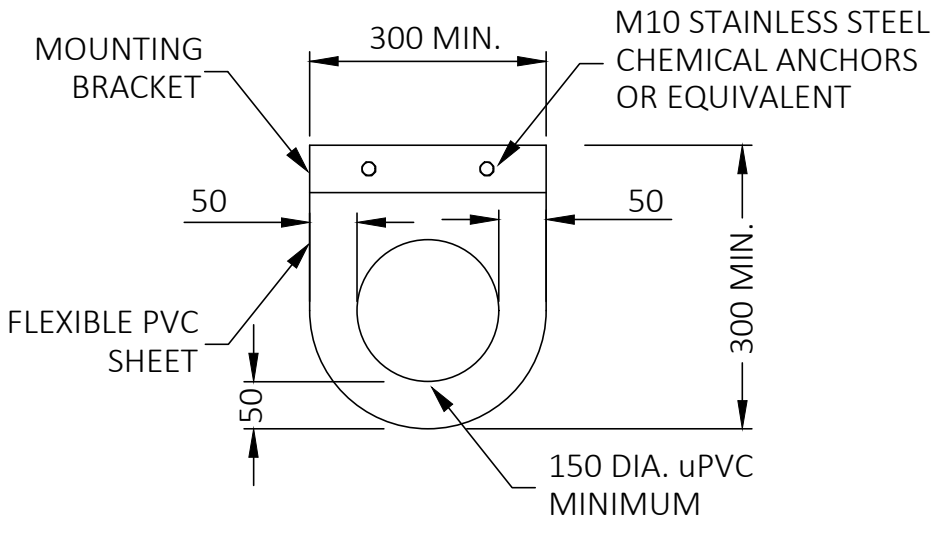
CONFINED SPACE SIGNAGE
NOT TO SCALE



OSD SIGNAGE
NOT TO SCALE



TRASH SCREEN DETAIL
NOT TO SCALE



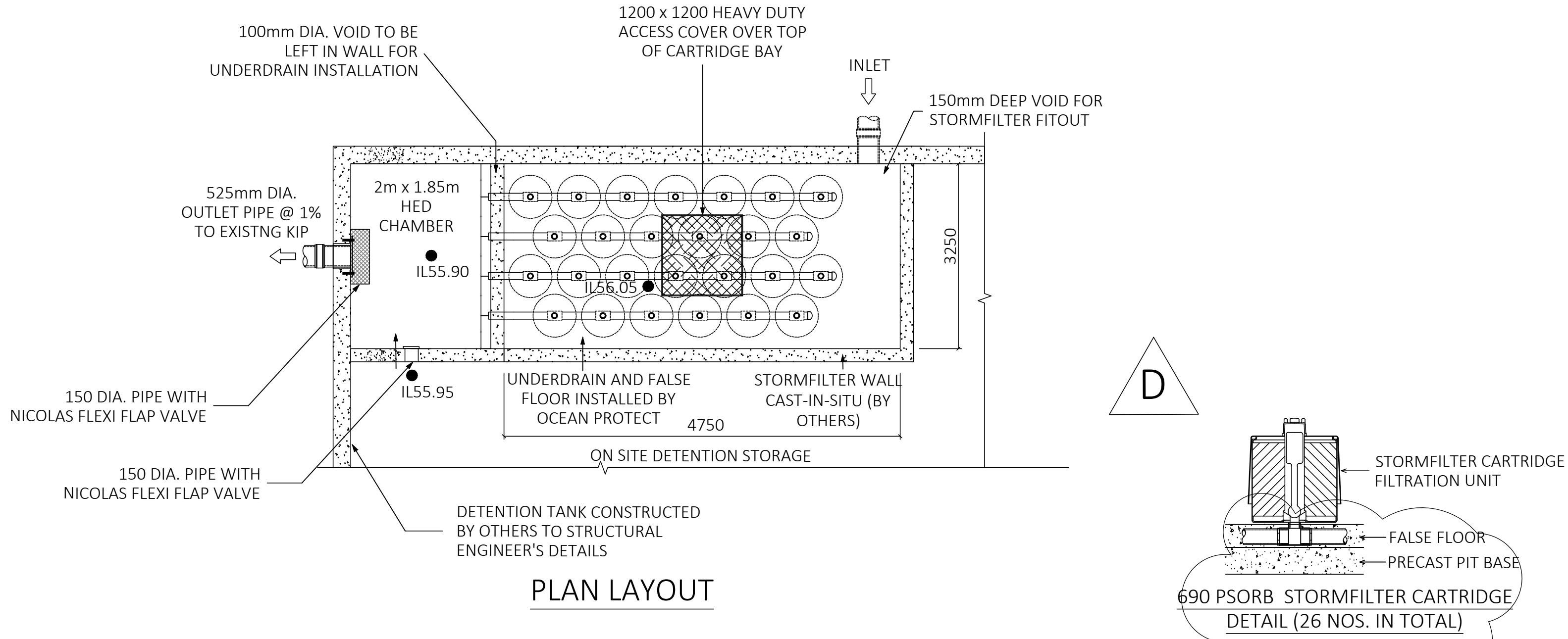
NICOLAS FLEXI FLAP VALVE DETAIL
NOT TO SCALE

STORMFILTER DESIGN TABLE

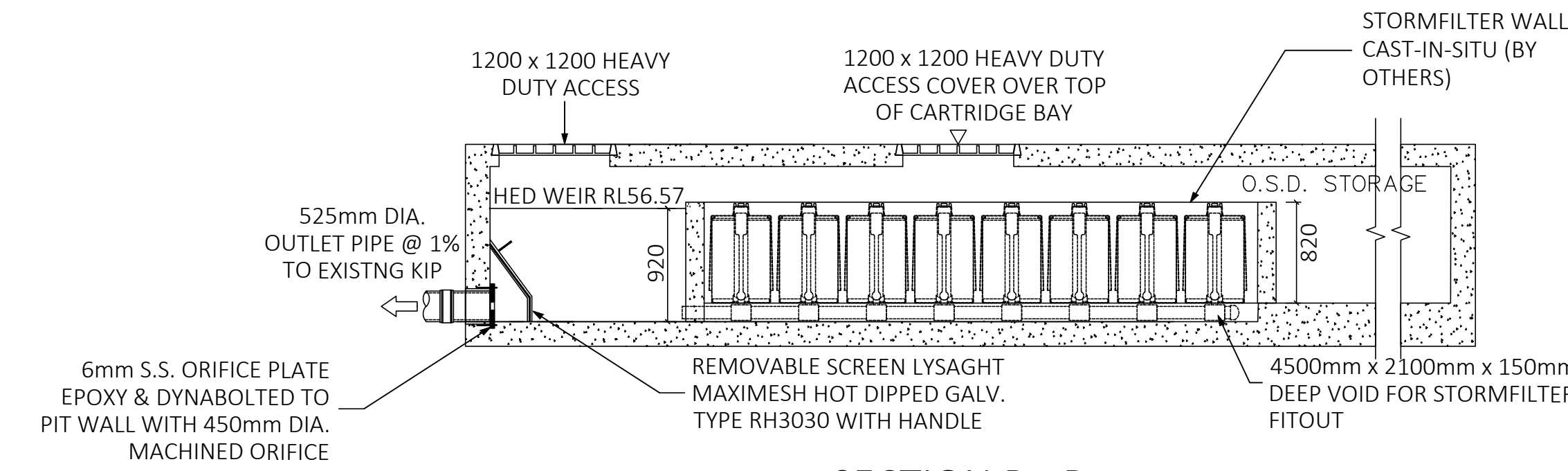
1. THE STORMFILTER TREATMENT CAPACITY VARIES BY NUMBER OF FILTER CARTRIDGES INSTALLED AND BY REGION SPECIFIC INTERNAL FLOW CONTROLS.
2. THE STANDARD CONFIGURATION IS SHOWN. ACTUAL CONFIGURATION OF THE SPECIFIED STRUCTURE(S) PER CIVIL ENGINEER WILL BE SHOWN ON SUBMITTAL DRAWING(S).
3. ALL PARTS PROVIDED AND INTERNAL ASSEMBLY BY OCEAN PROTECT UNLESS OTHERWISE NOTED.

| | |
|---|-----|
| CARTRIDGE HEIGHT | 690 |
| SYSTEM HYDRAULIC DROP (H - REQ'D, MIN.) | 930 |
| TREATMENT BY MEDIA SURFACE AREA L/S/m² | 1.4 |
| CARTRIDGE FLOW RATE (L/S) | 0.7 |

- #### GENERAL NOTES
1. INLET AND OUTLET PIPING SHALL BE SPECIFIED BY SITE CIVIL ENGINEER (SEE PLANS) AND PROVIDED BY CONTRACTOR. STORMFILTER IS PROVIDED WITH OPENINGS AT INLET AND OUTLET LOCATIONS.
 2. IF THE PEAK FLOW RATE, AS DETERMINED BY THE SITE CIVIL ENGINEER, EXCEEDS THE PEAK HYDRAULIC CAPACITY OF THE PRODUCT, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED. PLEASE CONTACT OCEAN PROTECT FOR OPTIONS.
 3. THE FILTER CARTRIDGE(S) ARE SIPHON-ACTUATED AND SELF-CLEANING. THE STANDARD DETAIL DRAWING SHOWS THE MAXIMUM NUMBER OF CARTRIDGES. THE ACTUAL NUMBER SHALL BE SPECIFIED BY THE SITE CIVIL ENGINEER ON SITE PLANS OR IN DATA TABLE BELOW. CONCRETE STRUCTURE TO BE PROVIDED BY OTHERS.
 4. SEE STORMFILTER DESIGN TABLE FOR REQUIRED HYDRAULIC DROP. FOR SHALLOW, LOW DROP OR SPECIAL DESIGN CONSTRAINTS, CONTACT OCEAN PROTECT FOR DESIGN OPTIONS.
 5. ALL WATER QUALITY PRODUCTS REQUIRE PERIODIC MAINTENANCE AS OUTLINED IN THE O&M GUIDELINES. PROVIDE MINIMUM CLEARANCE FOR MAINTENANCE ACCESS.
 6. STRUCTURE AND ACCESS COVERS DESIGNED BY OTHERS. ACCESS COVERS TO BE A MINIMUM 900 x 900 ABOVE CARTRIDGES.
 7. THE STRUCTURE THICKNESSES SHOWN ARE FOR REPRESENTATIONAL PURPOSES AND VARY REGIONALLY.
 8. ANY BACKFILL, DEPTH, SUB-BASE, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY SITE CIVIL ENGINEER.
 9. CARTRIDGE HEIGHT AND ASSOCIATED DESIGN PARAMETERS PER STORMFILTER DESIGN TABLE.
 10. STORMFILTER BY OCEAN PROTECT - SYDNEY (AU) PHONE: 1300 354 722 www.oceanprotect.com.au



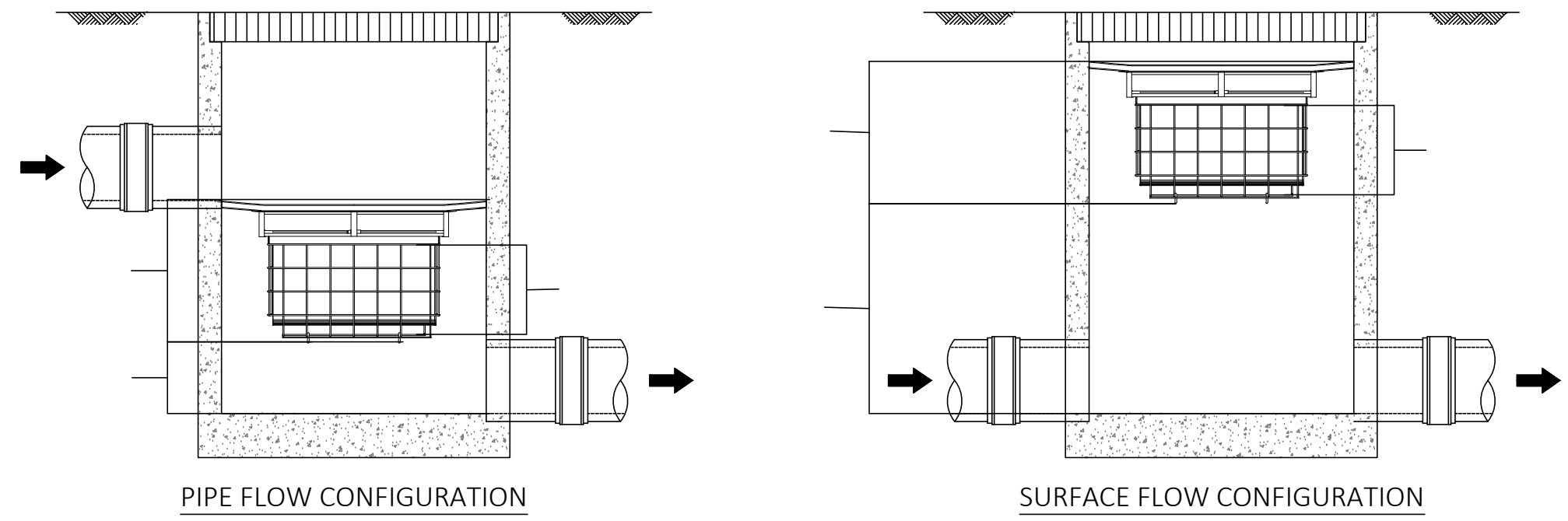
PLAN LAYOUT



SECTION B - B

OCEAN PROTECT - STORMFILTER SYSTEM DETENTION TANK ARRANGEMENT (FIRST FLUSH GENERAL ARRANGEMENT)

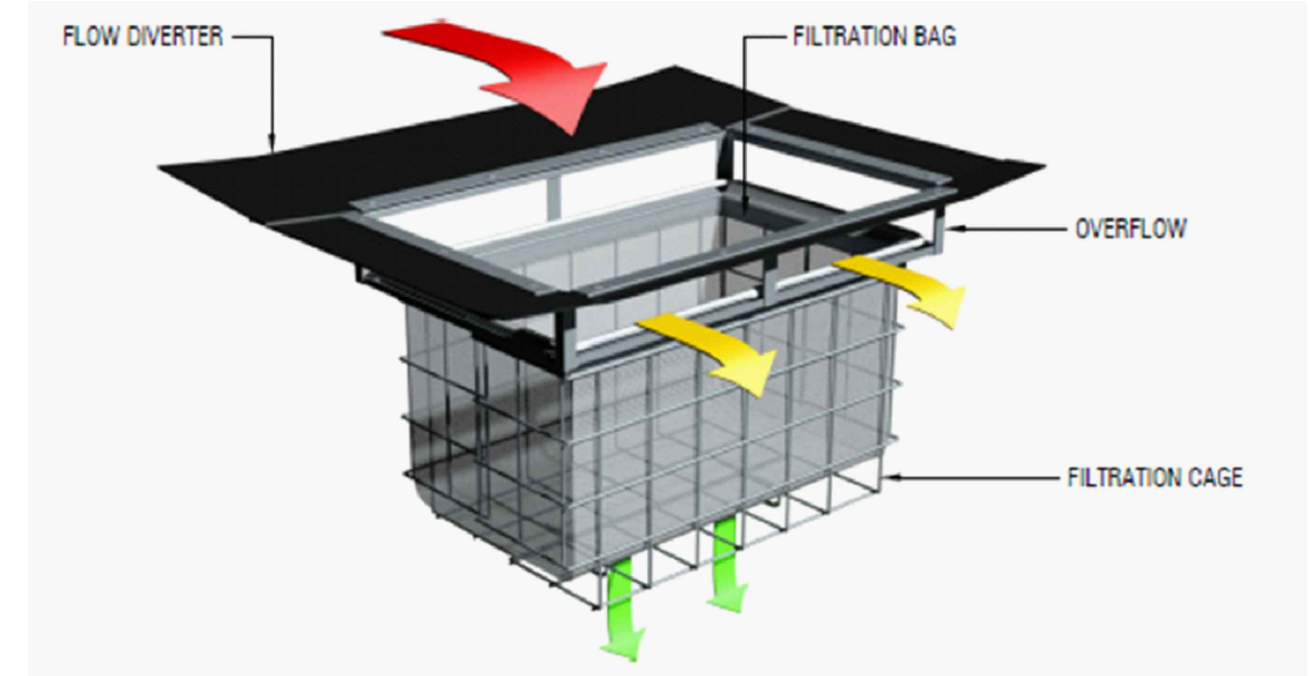
NOT FOR CONSTRUCTION



| PLAN ID | MAXIMUM PIT PLAN DIMENSIONS | |
|---------|-----------------------------|--|
| S | 450mm x 450mm | |
| M | 600mm x 600mm | |
| L | 900mm x 900mm | |
| XL | 1200mm x 1200mm | |

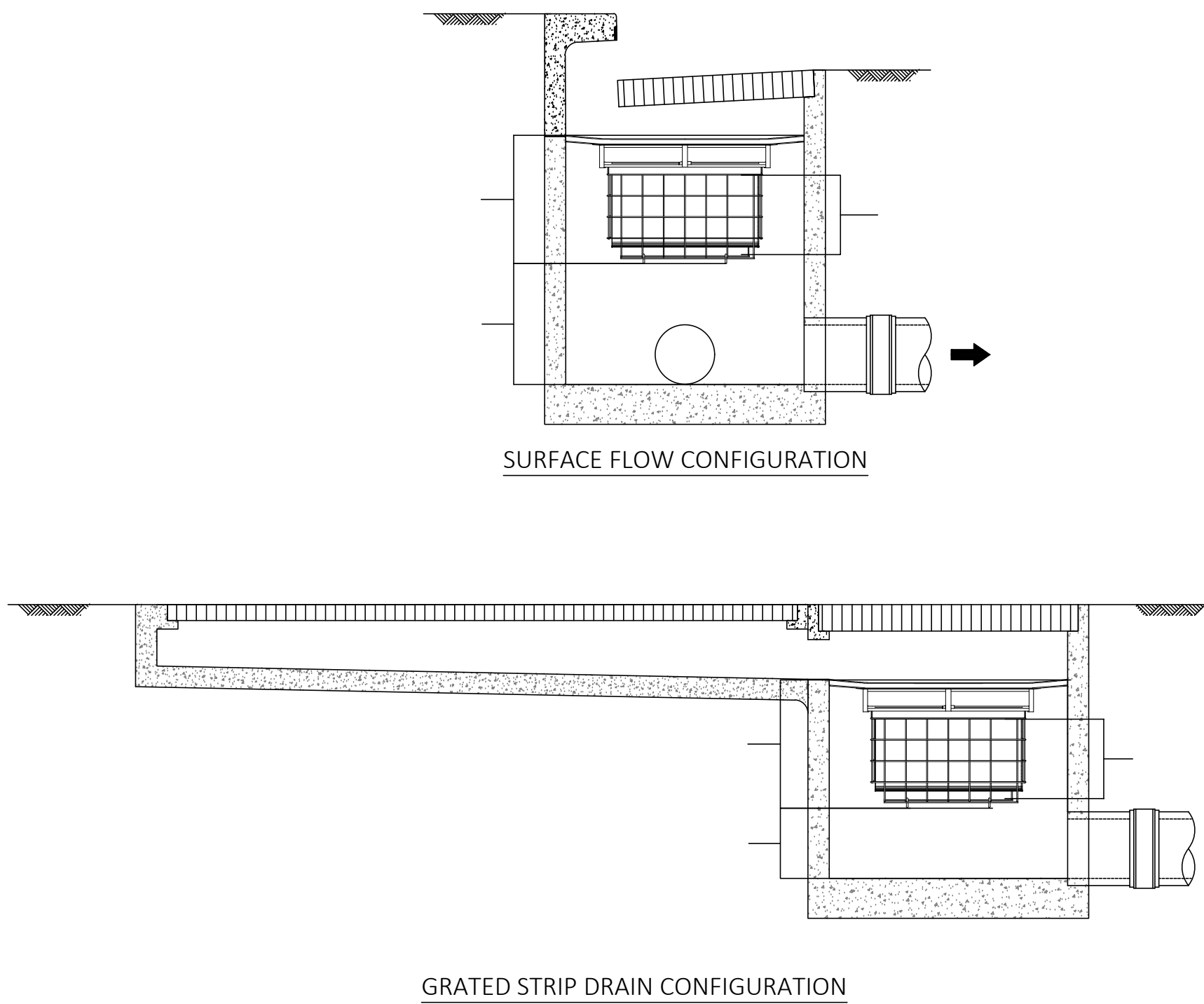
| | | |
|---|-----|-----|
| 1 | 170 | 270 |
| 2 | 300 | 450 |
| 3 | 600 | 700 |

| PLAN ID | DEPTH ID | |
|---------|----------|---|
| S | • | • |
| M | • | • |
| L | • | • |
| XL | • | • |



GENERAL NOTES

1. THE MINIMUM CLEARANCE DEPENDS ON THE CONFIGURATION (SEE NOTE 2) AND THE LOCAL COUNCIL REQUIREMENTS.
2. CLEARANCE FOR ANY PIT WITHOUT AN INLET PIPE (ONLY USED FOR SURFACE FLOW) CAN BE AS LOW AS 50mm. FOR OTHER PITS, THE RECOMMENDED CLEARANCE SHOULD BE GREATER OR EQUAL TO THE PIPE OVERTOP SO AS NOT TO INHIBIT HYDRAULIC CAPACITY.
3. OCEAN PROTECT PROVIDES TWO FILTRATION BAG TYPES: 200 MICRON BAGS FOR HIGHER WATER QUALITY FILTERING AND A COARSE BAG FOR TARGETING GROSS POLLUTANTS.
4. DRAWINGS NOT TO SCALE.



OCEAN PROTECT - OCEAN GUARD - TYPICAL ARRANGEMENTS

| | | | |
|-------|--|-----------------|--|
| D | Incorporate Council Comments of 5 May 2020 | 3 June 2020 | Drawn & Designed By : K. Koh |
| C | Incorporate Council Comments of 22 Aug. 19 | 1 Nov. 2019 | Checked By : N. Evans |
| B | Architectural Changes | 18 Apr. 2019 | Approved By : Kenneth T. NG |
| A | Development Application | 1 Dec. 2018 | MIEAust CPEng NER APEC Engineer |
| Issue | Description | Date of Drawing | IntPE(Aus) (Reg. No. 2206352) RPEQ Accredited Certifier (Cat. C1-C4, C6 & C15)(BPP No. 0827) |

ING CONSULTING ENGINEERS PTY LTD
P. O BOX 1543
BAULKHAM HILLS NSW 1755
F : (02) 8807 5656
M: 0433 778 109
E : ken@ingengineers.com.au

| | | | |
|---------|--|----------------------------|-------------------|
| Project | Proposed Mixed-Use Development | Drawing Title | Notes & Details 2 |
| At | 90 - 98 Glenmore Ridge Drive Glenmore Park NSW 2745 | Date | December 2018 |
| Client | Mintus Pty Ltd | Scale | As Shown @ A0 |
| | | Project No. | 116052018DA |
| | | Drawing & Sheet No./ Issue | 11605-09/9 / D |