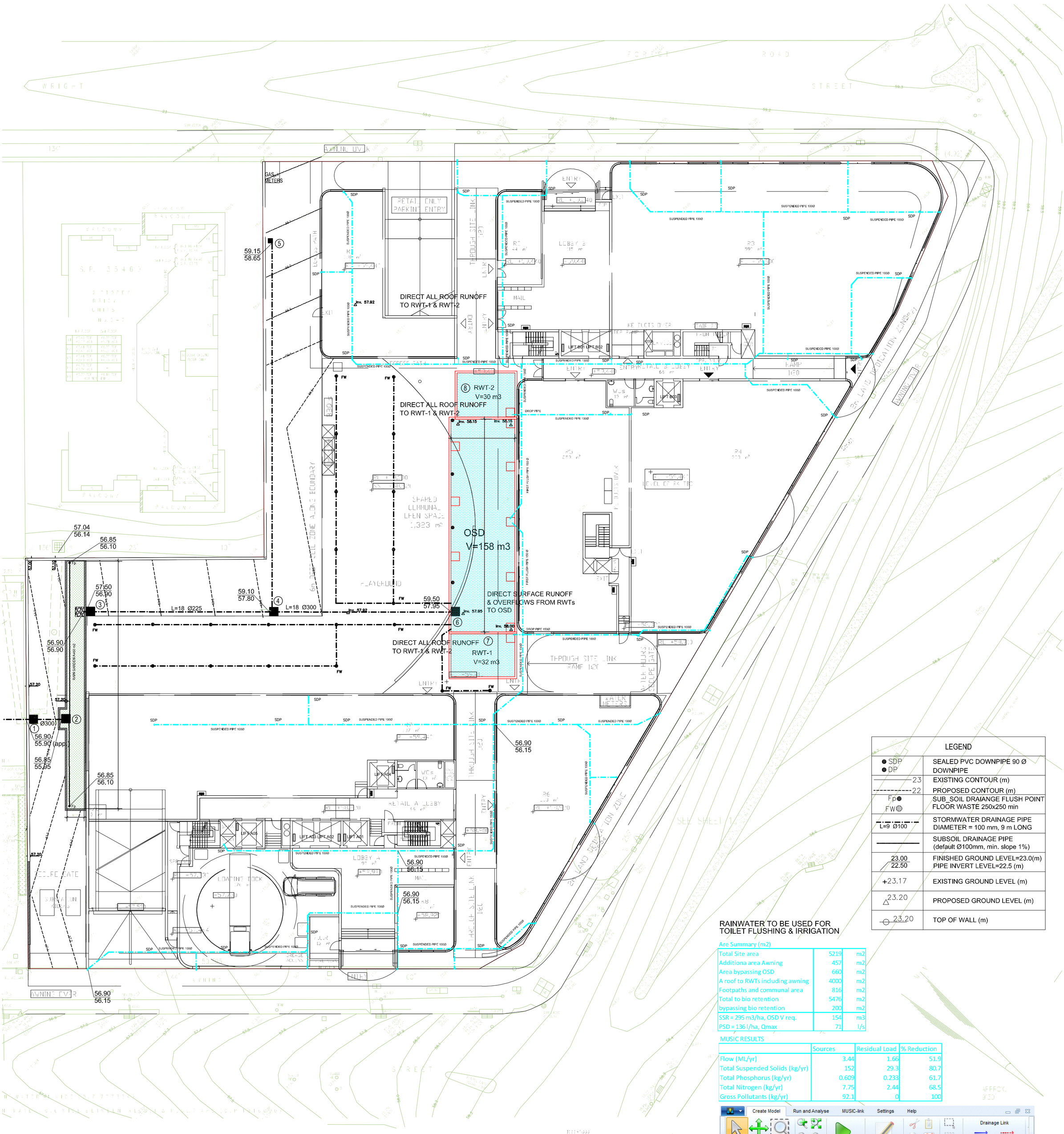



| LEGEND | |
|---|---|
| ● SDP ● DP | SEALED PVC DOWNPIPE 90 Ø DOWNPIPE |
| 23 | EXISTING CONTOUR (m) |
| 22 | PROPOSED CONTOUR (m) |
| Fp● FW | SUB_SOIL DRAIANGE FLUSH POINT FLOOR WASTE 250x250 min |
| L=9 Ø100 | STORMWATER DRAINAGE PIPE DIAMETER = 100 mm, 9 m LONG |
| | SUBSOIL DRAINAGE PIPE (default Ø100mm, min. slope 1%) |
| 23.00 / 22.50 | FINISHED GROUND LEVEL=23.0(m) PIPE INVERT LEVEL=22.5 (m) |
| +23.17 | EXISTING GROUND LEVEL (m) |
| △23.20 | PROPOSED GROUND LEVEL (m) |
| ⊖ 23.20 | TOP OF WALL (m) |

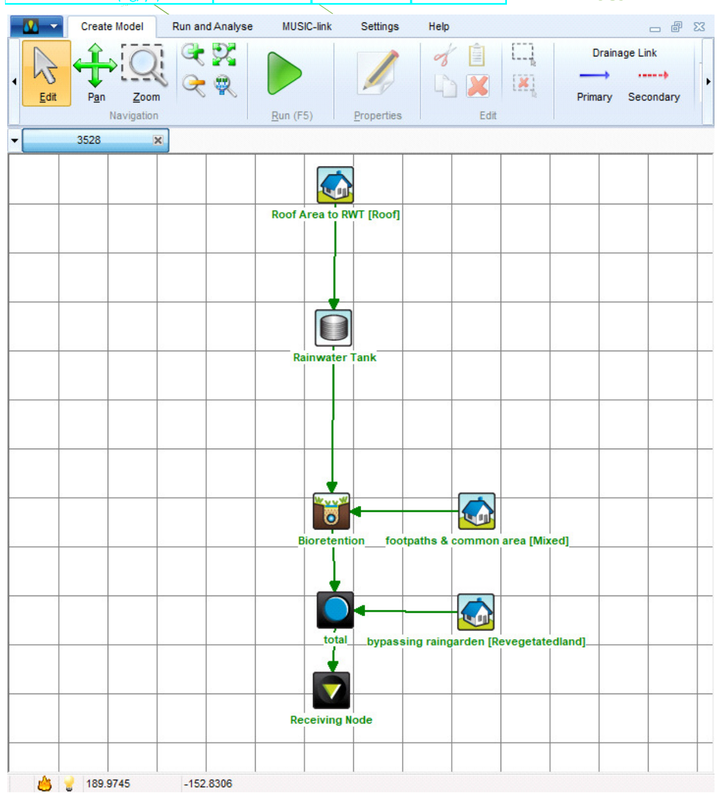
## RAINWATER TO BE USED FOR TOILET FLUSHING & IRRIGATION

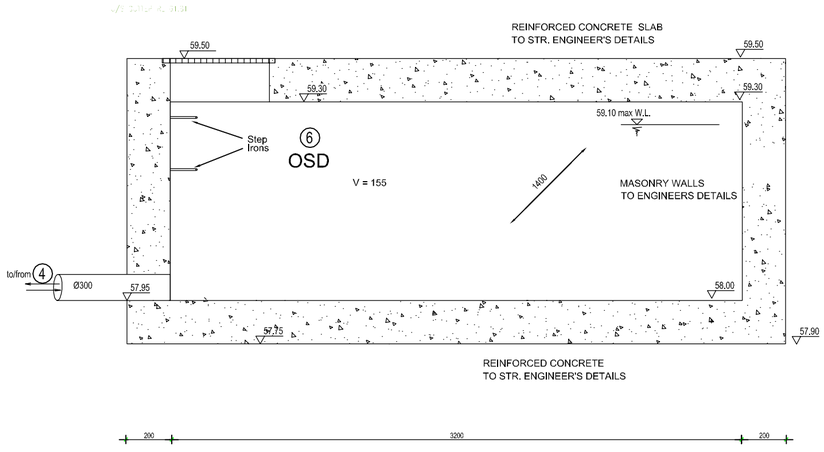
Are Summary (m2)

| | | |
|---|---|---|
| Total Site area | 5219 | m2 |
| Additiona area Awning | 457 | m2 |
| Area bypassing OSD | 660 | m2 |
| A roof to RWTs including awning | 4000 | m2 |
| Footpaths and communal area | 816 | m2 |
| Total to bio retention | 5476 | m2 |
| bypassing bio retention | 200 | m2 |
| SSR = 295 m3/ha, OSD V req. | 154 | m3 |
| PSD = 136 l/ha, Qmax | 71 | l/s |

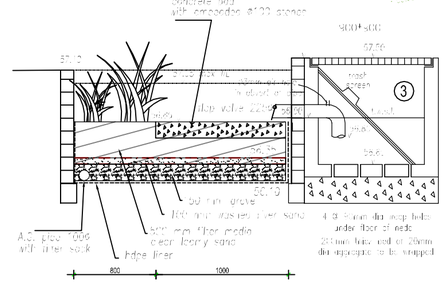
MUSIC RESULTS

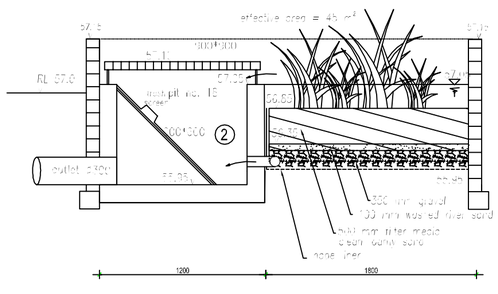
| | Sources | Residual Load | % Reduction |
|---|---|---|---|
| Flow (ML/yr) | 3.44 | 1.66 | 51.9 |
| Total Suspended Solids (kg/yr) | 152 | 29.3 | 80.7 |
| Total Phosphorus (kg/yr) | 0.609 | 0.233 | 61.7 |
| Total Nitrogen (kg/yr) | 7.75 | 2.44 | 68.5 |
| Gross Pollutants (kg/yr) | 92.1 | 0 | 100 |




OSD Section NTS

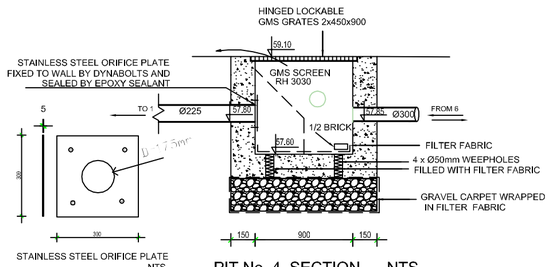




bio retention typical sections

| OSD Stage -Storage - Discharge Table | | | | |
|---|---|---|---|---|
| Stage (m) | Area (m2) | Storage (m3) | Q Free (l/s) | Depth (m) |
| 57.95 | 1 | 8.00 | 12.379 | 0.0375 |
| 58 | 5 | 8.15 | 18.909 | 0.0875 |
| 58.15 | 146 | 19.47 | 31.153 | 0.2375 |
| 59.1 | 146 | 158.18 | 69.660 | 1.1875 |

| Orifice | |
|---|---|
| PSD | 71.00 |
| Hmax | 59.1 (m AHD) |
| Horifice | 57.9125 (m AHD) |
| Aorifice | 0.0245155 (m2) |
| D | 0.1767 (m) |
| Dorifice | 175 mm |
| Qmax | 69.6955 (l/s) |




PIT No. 4 SECTION NTS
with step irons

BASEMENT DRAINAGE NOTES:

THE ENTRANCE TO THE BASEMENT IS COVERED
THE SUBSOIL DRAINAGE WILL BE COORDINATED WITH STRUCTURAL DESIGN AT CC STAGE

Amendments

| Issue | Date | Comments |
|---|---|---|
| 1 | 5/12/20 | for comments |
| 2 | 14/12/20 | for DA |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| | |
|---|---|
| STORMWATER DRAINAGE PLAN FOR PROPOSED DEVELOPMENT AT No. 108-124 FOREST RD, HURSTVILLE | DRAWN BY: P.K. |
| | DRAWING No.C-3528-02 |
| | SCALE: 1:200 on A1, 1:400 on A3 |
| DESIGNED BY: PAVEL KOZAROVSKI, MIEAus, CPEng, NPER-3 | Kozarovski & Partners 14/52-54 KINGSWAY, CRONULLA NSW 2230 (02) 8544 8720 Mobile: 0412 997 767 pavelk@optusnet.com.au |