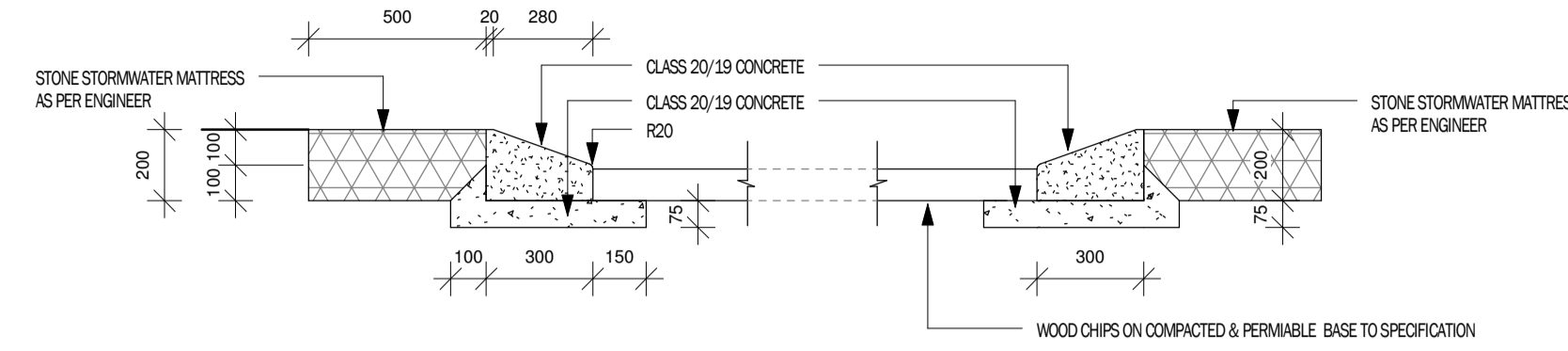


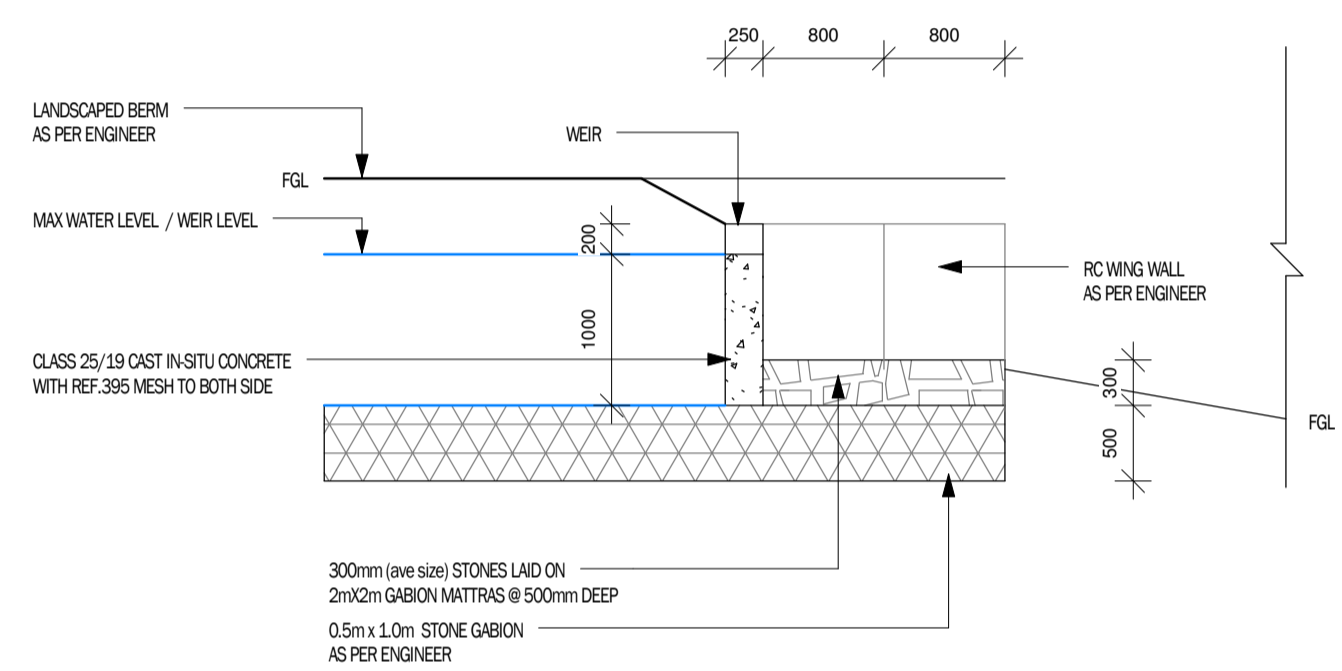
SW OUTLET LAYOUT

1 : 50



TYPICAL ROAD/ PARKING SECTION

1 : 20



SW OUTLET DETAIL SECTION

1 : 50

| Retention Pond 1 | | |
|--|-------|----------|
| Item | Unit | Quantity |
| Catchment area (A) | ha | 1.9 |
| Slope of catchment area (S) | % | 2 |
| Runoff coefficient © | | 0.25 |
| Design returne period (50yr) | yr | 50 |
| Rainfall intensity (I) | mm/hr | 55 |
| Peak flow (Qmax. input) | l/s | 73 |
| Time of concentration (Tc - estimated) | min | 30 |
| Pond retention capacity required (V) | kl | 131 |

| Retention Pond 2 | | |
|--|-------|----------|
| Item | Unit | Quantity |
| Catchment area (A) | ha | 1.7 |
| Slope of catchment area (S) | % | 2 |
| Runoff coefficient © | | 0.25 |
| Design returne period (50yr) | yr | 50 |
| Rainfall intensity (I) | mm/hr | 55 |
| Peak flow (Qmax. input) | l/s | 65 |
| Time of concentration (Tc - estimated) | min | 25 |
| Pond retention capacity required (V) | kl | 97 |

| Retention Pond 3 | | |
|--|-------|----------|
| Item | Unit | Quantity |
| Catchment area (A) | ha | 0.9 |
| Slope of catchment area (S) | % | 2 |
| Runoff coefficient © | | 0.25 |
| Design returne period (50yr) | yr | 50 |
| Rainfall intensity (I) | mm/hr | 55 |
| Peak flow (Qmax. input) | l/s | 34 |
| Time of concentration (Tc - estimated) | min | 20 |
| Pond retention capacity required (V) | kl | 41 |

| Storage tanks - Building A | | |
|--|-------|----------|
| Item | Unit | Quantity |
| Roof area (A) | sqm | 3496 |
| Slope of roof area (S) | % | 5 |
| Runoff coefficient © | | 0.9 |
| Design returne period (50yr) | yr | 50 |
| Rainfall intensity (I) | mm/hr | 55 |
| Peak flow (Qmax. input) | l/s | 48 |
| Time of concentration (Tc - estimated) | min | 20 |
| Storage tanks required (5kl/unit) | 5kl | 12 |

| Storage tanks - Building B | | |
|--|-------|----------|
| Item | Unit | Quantity |
| Roof area (A) | sqm | 1818 |
| Slope of roof area (S) | % | 5 |
| Runoff coefficient © | | 0.9 |
| Design returne period (50yr) | yr | 50 |
| Rainfall intensity (I) | mm/hr | 55 |
| Peak flow (Qmax. input) | l/s | 25 |
| Time of concentration (Tc - estimated) | min | 20 |
| Storage tanks required (5kl/unit) | 5kl | 6 |

| Storage tanks - Building C | | |
|--|-------|----------|
| Item | Unit | Quantity |
| Roof area (A) | sqm | 1780 |
| Slope of roof area (S) | % | 5 |
| Runoff coefficient © | | 0.9 |
| Design returne period (50yr) | yr | 50 |
| Rainfall intensity (I) | mm/hr | 55 |
| Peak flow (Qmax. input) | l/s | 24 |
| Time of concentration (Tc - estimated) | min | 20 |
| Storage tanks required (5kl/unit) | 5kl | 6 |



SITE PLAN.

1 : 1000

| STORMWATER LEGEND | |
|-------------------|---|
| | STORMWATER SURFACE FLOW ON ROAD AREA DRAINAGE FLOW DIRECTION @ 1:200 FALL |
| | STORMWATER SURFACE FLOW ON GARDEN AREA DRAINAGE FLOW DIRECTION @ 1:50 FALL |
| | RAINWATER TANKS FOR ROOF WATER |
| | 30m³ RETENTION PONDS |
| | WOOD CHIPS ON COMPACTED & PERMEABLE BASE TO SPECIFICATION |
| | SITE BOUNDARY / CATCHMENT AREA |

LEVEL NOTES:
 * ALL UNFINISHED RESIDENTIAL FLOOR LEVELS TO BE CONFIRMED ON SITE
 * ALL FINAL STORMWATER SURFACE DRAINAGE FLOW DIRECTION LEVELS TO BE CONFIRMED ON SITE
 * ANY AND ALL LEVEL CHANGES AND CONFIRMATIONS TO BE APPROVED BY ENGINEER.

2.5% MINIMUM CROSS FALL ON ALL ROADS AND 0.5% AVERAGE LONGITUDINAL FALL APPLICABLE TO ALL ROADS

ALL LAYER WORKS TO BE LABORATORY - COOP & CORP TESTED BEFORE PAVING COMMENCEMENT. PROVIDE ENGINEER WITH QUALITY CONTROL TEST RESULTS OF APPLICABLE MATERIALS PRIOR TO CONSTRUCTION COMMENCEMENT.

- NOTES:
- THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH ALL ARCHITECTS DRAWINGS AND OTHER RELEVANT DRAWINGS BEFORE CONSTRUCTION COMMENCES.
 - ALL DIMENSIONS MUST BE CHECKED AND ANY DISCREPANCIES MUST BE REFERRED TO THE ENGINEER FOR ATTENTION.
 - DRAWINGS NOT TO BE SCALED.
 - ALL DIMENSIONS AND LEVELS MUST BE CHECKED ON SITE.
 - ALL WORKS MUST COMPLY WITH SANS 1200.
 - ENGINEER TO APPROVE ALL WORKS PRIOR TO CONSTRUCTION.
 - 48hour INSPECTION NOTICE PERIOD REQUIRED IN WRITING.

ROOF:
 * CORRUGATED ROOF SHEETS WITH 5° SLOPE TO OUTLETS AS PER ENGINEER.
 * ALL SW FROM GUTTERS TO FLOW INTO STORAGE TANKS AND OVERFLOW INTO SW MATTRASS AS PER ENGINEER.



| | | |
|--------------|--|------------------|
| client | GARDEN ROUTE GATEWAY PLAZA PTY LTD | |
| project | Proposed new tourist facility on Ptn 400 of Farm Kraaibosch 195. | |
| date | 27.06.2023 | sheet A1-01 |
| sheet | SW MANAGEMENT PLAN | |
| reference no | 2023/GATEWAY | Preliminary Plan |

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