

**9 DEVON STREET, CLYDE NSW 2142**  
**PART LOT 100 DP1168951**  
**CIVIL PACKAGE - SSD 10459**

DAWG No. C013919.01-DA10

|                                                                                                         |  |  |                                                                                           |  |  |                                                                                                                                                                                                                                                         |  |  |                                                          |  |  |
|---------------------------------------------------------------------------------------------------------|--|--|-------------------------------------------------------------------------------------------|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------------------------------------|--|--|
| ISSUED FOR INFORMATION 12.08.20 C<br>REVISED AS CLOUDED 21.07.20 B<br>ISSUED FOR INFORMATION 08.07.20 A |  |  | PROJECT<br><b>SUSTAINABLE ROAD RESOURCE CENTRE (PHASE 1)</b><br>9 DEVON STREET, CLYDE NSW |  |  | CLIENT<br>Costin Roe Consulting Pty Ltd.<br>Consulting Engineers<br>Level 1, 8 Windsor Street<br>Waleg, Sydney NSW 2000<br>Tel: (61) 021-1088 Fax: (61) 021-0741<br>Email: <a href="mailto:costin@costinroecorp.com.au">costin@costinroecorp.com.au</a> |  |  | DRAWING TITLE<br><b>DRAWING LIST &amp; GENERAL NOTES</b> |  |  |
| DESIGNED DRAWN DATE SIZE SCALE<br>1:100 1:100 1:100 1:100                                               |  |  | CHECKED BY DATE<br>12.08.20                                                               |  |  | PRECISION   COMMUNICATION   ACCOUNTABILITY                                                                                                                                                                                                              |  |  | DRAWING NO. 101-01-01                                    |  |  |



**SEDIMENTATION BASIN NOTE:**

FOR SEDIMENT & EROSION CONTROL DETAILS REFER TO DRAWING C013919.01-DA25.  
SEDIMENTATION BASIN SIZING BASED ON RECOMMENDATIONS OF 'SOILS AND CONSTRUCTION, MANAGING URBAN STORMWATER-THE BLUE BOOK'. CAPACITY BASED UPON 5 DAY RAINFALL DEPTH AT 85th PERCENTILE INTENSITY (33.1mm).

SEDIMENTATION BASINS TO COLLECT RUN-OFF IN EXTREME RAINFALL EVENTS. COLLECTED RUN-OFF TO BE ASSESSED BY A QUALIFIED LABORATORY FOR DOUSING RATES OF ALUM OR GYPSUM TO ENSURE COAGULATION OF SEDIMENTS PRIOR TO WATER BEING DISCHARGED TO LOCAL STORMWATER SYSTEM.

EACH BASIN IS TO HAVE A MARKER PLACED AS PER THE DETAIL TO INDICATE WHEN SEDIMENT IS TO BE REMOVED. REMOVED SEDIMENT IS TO BE CLASSED AND DEWATERED PRIOR TO REMOVAL FROM SITE.

ALLOWANCE TO BE MADE DURING BENCHING OF SITE TO ENSURE RUN-OFF IS DIRECTED TO SEDIMENTATION BASINS.

**NOTES:**

1. ASSUME TYPE D SOIL (CLAY)
2. ASSUME GROUP D SOIL (HIGH PLASTICITY AND SHRINK/SWELL PROPERTIES)

**LEGEND:**

PROVIDE 1m RETURNS TO SILT FENCE AT 30m MAX. INTERVALS. TYPICAL (N.S.O.P.)

- SILT FENCE ONLY
- SITE BOUNDARY
- DIVERSION DRAIN
- CLEAN WATER DIVERSION DRAIN
- OVERLAND FLOW DIRECTION
- APPROXIMATE EXTENT OF TREE LINE
- RIPARIAN SETBACK

**EROSION & SEDIMENT CONTROL NOTE:**

REFER TO DA10 FOR EROSION & SEDIMENT CONTROL NOTES

**SEDIMENT BASIN SCHEDULE**

| BASIN No.         | CATCHMENT AREA (Ha) | REQUIRED BASIN VOLUME | BASE DIMENSIONS (LxW) | TOP DIMENSIONS (LxW) | MAX SLIDE SLOPE | DEPTH | PROVIDED BASIN VOLUME |
|-------------------|---------------------|-----------------------|-----------------------|----------------------|-----------------|-------|-----------------------|
| SEDIMENT BASIN 1  | 0.77                | 24m³                  | 15mX5m                | 24mX14m              | 1V:3H           | 1.5m  | 285m³                 |
| SEDIMENT BASIN 2  | 0.77                | 24m³                  | 15mX5m                | 24mX14m              | 1V:3H           | 1.5m  | 285m³                 |
| SEDIMENT BASIN 3  | 2.76                | 876m³                 | 33mX11m               | 42mX20m              | 1V:3H           | 1.5m  | 878m³                 |
| SEDIMENT BASIN 4  | 1.03                | 327m³                 | 18mX6m                | 27mX15m              | 1V:3H           | 1.5m  | 361m³                 |
| SEDIMENT BASIN 5  | 1.03                | 327m³                 | 18mX6m                | 27mX15m              | 1V:3H           | 1.5m  | 361m³                 |
| SEDIMENT BASIN 6  | 2.06                | 654m³                 | 30mX10m               | 39mX19m              | 1V:3H           | 1.5m  | 756m³                 |
| SEDIMENT BASIN 7  | 2.13                | 675m³                 | 30mX10m               | 39mX19m              | 1V:3H           | 1.5m  | 756m³                 |
| SEDIMENT BASIN 8  | 2.14                | 678m³                 | 30mX10m               | 39mX19m              | 1V:3H           | 1.5m  | 756m³                 |
| SEDIMENT BASIN 9  | 3.32                | 1054m³                | 39mX13m               | 48mX22m              | 1V:3H           | 1.5m  | 1147m³                |
| SEDIMENT BASIN 10 | 1.55                | 493m³                 | 24mX8m                | 33mX17m              | 1V:3H           | 1.5m  | 541m³                 |
| SEDIMENT BASIN 11 | 1.50                | 477m³                 | 24mX8m                | 33mX17m              | 1V:3H           | 1.5m  | 541m³                 |
| SEDIMENT BASIN 12 | 3.63                | 1154m³                | 42mX14m               | 51mX23m              | 1V:3H           | 1.5m  | 1296m³                |



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**Approved Application No: SSD-10459**

**Granted on: 31 January 2021**

**Signed: JF**

**Sheet No: 9 of 44**

**EROSION & SEDIMENT CONTROL PLAN - FINAL STAGE**  
SCALE 1:1000

**FOR INFORMATION**

10m 0 10 20 30 40 50 60 70 80 90 100m  
SCALE 1:1000 AT A4 SHEET SIZE

| REVISION                    | DATE     | ISSUE | AMENDMENTS |
|-----------------------------|----------|-------|------------|
| REVISED PER NEW SITE PLAN   | 30.11.20 | F     |            |
| REVISED PER CLIENT COMMENTS | 20.11.20 | E     |            |
| REVISED PER NEW SITE PLAN   | 16.11.20 | D     |            |
| ISSUED FOR INFORMATION      | 12.08.20 | C     |            |
| REVISED AS CLOUDED          | 21.07.20 | B     |            |
| ISSUED FOR INFORMATION      | 08.07.20 | A     |            |
| AMENDMENTS                  | DATE     | ISSUE | AMENDMENTS |

| ARCHITECT | CLIENT |
|-----------|--------|
|           |        |

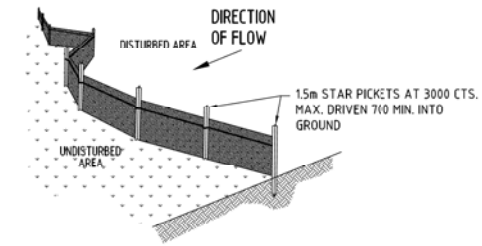
| PROJECT                                    | DESCRIPTION               |
|--------------------------------------------|---------------------------|
| SUSTAINABLE ROAD RESOURCE CENTRE (PHASE 1) | 9 DEVON STREET, CLYDE NSW |

| DESIGNED | DRAWN | CHECKED | DATE | SCALE | DATE | SCALE | DATE | SCALE |
|----------|-------|---------|------|-------|------|-------|------|-------|
| XC       | HJ    | AY      | 20   | A3    | 20   | A3    | 20   | A3    |

|                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Costin Roe Consulting Pty Ltd.<br>Consulting Engineers<br>Level 1, 4 Macquarie Street<br>Woolly Bay, Sydney NSW 2009<br>Tel: (02) 9551-1000 Fax: (02) 9551-0752<br>www.costinroeconsulting.com.au |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                            |
|--------------------------------------------|
| <b>Costin Roe Consulting</b>               |
| PRECISION   COMMUNICATION   ACCOUNTABILITY |

|                                                                           |                                       |
|---------------------------------------------------------------------------|---------------------------------------|
| DRAWING TITLE<br><b>EROSION &amp; SEDIMENT CONTROL PLAN - FINAL STAGE</b> | DRAWING NO.<br><b>C013919.01-DA23</b> |
|---------------------------------------------------------------------------|---------------------------------------|



Technical drawing of a rectangular pond with various labels and dimensions:

- SECURITY FENCE**: Indicated by a line with circles along the top and right sides of the pond.
- LINE**: Indicated by a line with circles along the left side of the pond.
- SUBMERSIBLE PUMP**: Located inside the pond, connected to a line on the left side.
- LENGTH (L)**: Dimension line across the middle of the pond.
- WIDTH (W)**: Dimension line along the right side of the pond.
- DRAIN**: Indicated by a line with circles at the bottom center of the pond.
- WATER FOR O<sub>2</sub> 12 MONTHS. OR**: Indicated by a line with circles at the bottom left corner of the pond.

1500 (DEPTH OF BASIN)

TOP WATER LEVEL OF SEDIMENTATION BASIN

MARKER POST

BRIGHT COLOURED INDICATOR MARKER

ONCE SEDIMENT REACHES TOP OF INDICATOR MARKER, REMOVE SEDIMENT AS PER NOTE

BASE OF SEDIMENTATION BASIN

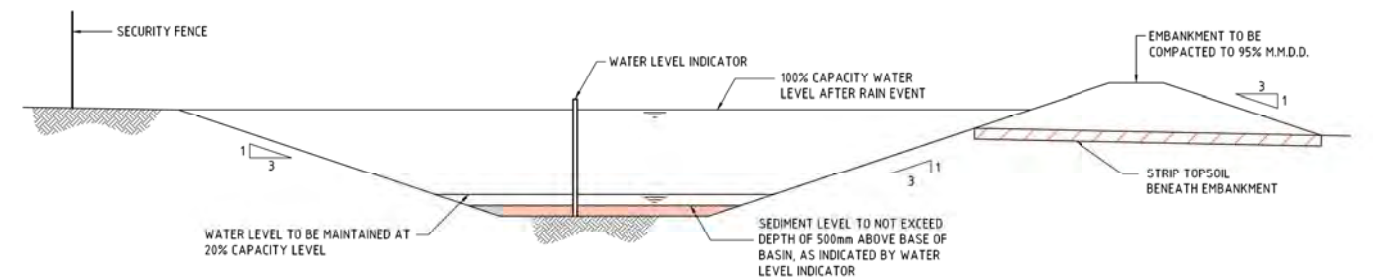
500

**SEDIMENT STORAGE MARKER**

SCALE 1:20

The diagram illustrates a cross-section of a stockpile. On the left, an arrow points right, labeled "DIRECTION OF FLOW". A "SILT FENCE WITH CATCH DRAIN AS DETAILED." is shown at the base of the flow. The stockpile itself has a "SIDE SLOPE 1 V : 2 H (MAX.)" and a "STABILISED STOCKPILE SURFACE." indicated by a cross-hatched pattern. To the right of the stockpile, a vertical line marks a distance of "5m MIN. TO EXISTING VEGETATION". Further right, a tree is shown with a "SILT FENCE ONLY AS DETAILED." at its base. The entire diagram is captioned "TYPICAL STOCKPILE DETAIL" and "N.T.S." (Not To Scale).

1. PLACE ALL STOCKPILES IN LOCATIONS MORE THAN 5m FROM EXISTING VEGETATION, ROADS & HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT ELONGATED MOUNDS. SIDE SLOPE TO BE 1 V: 2 H MAX.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE STOCKPILES ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE USING WOOD CHIP MULCH - 16 TONNE/Ha.
5. CONSTRUCT SILT FENCE WITH CATCH DRAIN ON UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES & SILT FENCE ONLY 1 TO 2m DOWNSLOPE AS SHOWN.



**DIVERSION CHANNEL CAPACITY**  
 $Q = 1370 \text{ l/s}$  ( $A = 9.3 \text{ Ha MAX.}$ )  
 MANNINGS  $n = 0.02$ , MIN. SLOPE = 0.5%  
 CHANNEL CAPACITY ( $d = 400 \text{ mm}$ ) =  $1370 \text{ l/s} + 20\% \text{ FREEBOARD}$   
 VELOCITY =  $1.40 \text{ m/s}$  THEREFORE SCOUR PROTECTION REQ'D.

**DIRECTION OF FLOW**

MAX. WATER LEVEL

600

630

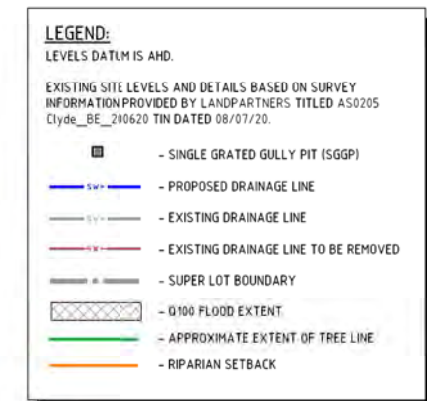
1200

3:1

1:2

TEMPORARILY PROTECT THE SWALE FROM EROSION DURING CONSTRUCTION. INSTALL A 3000 WIDE SECTION OF BIODEGRADABLE JUTE OPEN WEAVE MESH INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION.

**FOR INFORMATION**



| PIT SCHEDULE |          |         |           |         |
|--------------|----------|---------|-----------|---------|
| PIT No.      | GRATE RL | TYPE    | SIZE      | COMMENT |
| PIT A1       | 4.60     | S.G.G.P | 1200x1200 |         |
| PIT A2       | 4.50     | S.G.G.P | 1200x1200 |         |
| PIT A3       | 4.15     | S.G.G.P | 1200x1200 |         |
| PIT B1       | 4.80     | S.G.G.P | 1200x1200 |         |
| PIT B2       | 4.80     | S.G.G.P | 1200x1200 |         |
| PIT B3       | 4.80     | S.G.G.P | 1200x1200 |         |
| PIT B4       | 4.80     | S.G.G.P | 1200x1200 |         |
| PIT B5       | 4.80     | S.G.G.P | 1200x1200 |         |
| PIT B6       | 4.80     | S.G.G.P | 1500x1500 |         |
| PIT R1       | 4.19     | K.I.P   | 900x900   |         |
| PIT R1-A     | 4.19     | K.I.P   | 900x900   |         |
| PIT R2       | 4.17     | K.I.P   | 900x900   |         |
| PIT R2-A     | 4.17     | K.I.P   | 900x900   |         |
| PIT R3       | 4.15     | K.I.P   | 1500x1500 |         |
| PIT R3-A     | 4.15     | K.I.P   | 1200x1200 |         |
| PIT R4       | 4.13     | K.I.P   | 1500x1500 |         |
| PIT R4-A     | 4.13     | K.I.P   | 900x900   |         |
| PIT R5       | 4.10     | K.I.P   | 3000x1500 |         |
| PIT R5-A     | 4.10     | K.I.P   | 1500x900  |         |
| PIT R6       | 4.07     | K.I.P   | 3000x900  |         |
| PIT R6-A     | 4.07     | K.I.P   | 900x900   |         |
| PIT R7       | 4.05     | K.I.P   | 3600x1500 |         |
| PIT R7-A     | 4.05     | K.I.P   | 1500x900  |         |
| PIT R8       | 4.03     | K.I.P   | 3600x1200 |         |
| PIT R8-A     | 4.03     | K.I.P   | 900x900   |         |
| PIT R9       | 4.00     | K.I.P   | 3600x1500 |         |
| PIT R9-A     | 4.00     | K.I.P   | 900x900   |         |
| PIT R10      | 3.96     | K.I.P   | 3600x1500 |         |
| PIT R10-A    | 3.96     | K.I.P   | 1500x900  |         |
| PIT R11      | 3.92     | K.I.P   | 3600x1500 |         |

**STORMWATER DRAINAGE NOTES:**  
REFER TO DA10 FOR STORMWATER NOTES.



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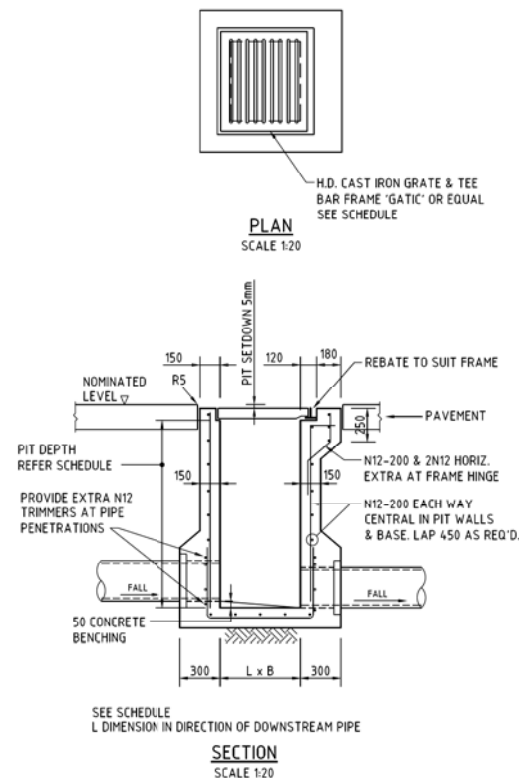
**Sheet No: 15 of 44**

 **CONCEPT STORMWATER DRAINAGE PLAN - PHASE 2**  
SCALE 1:1000

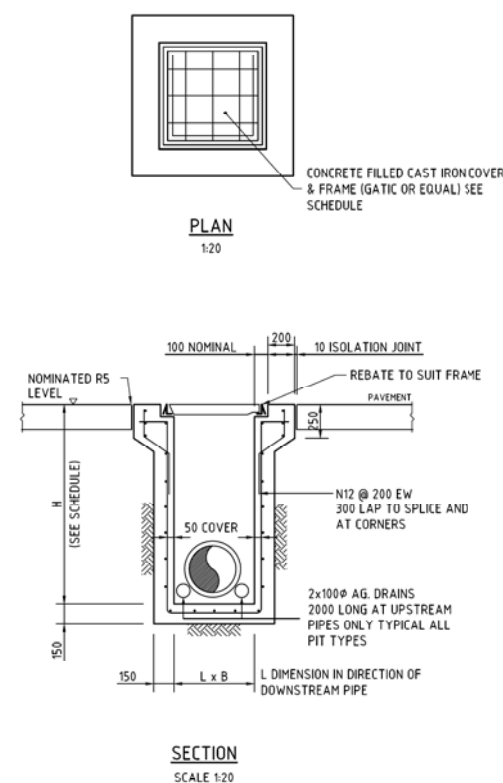
FOR INFORMATION

10m 0 10 20 30 40 50 60 70 80 90 100m  
SCALE 1:1000 AT A0 SHEET SIZE

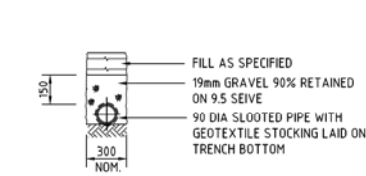
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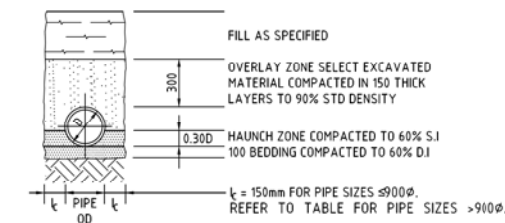
**SINGLE GRATED GULLY PIT - SGGP**



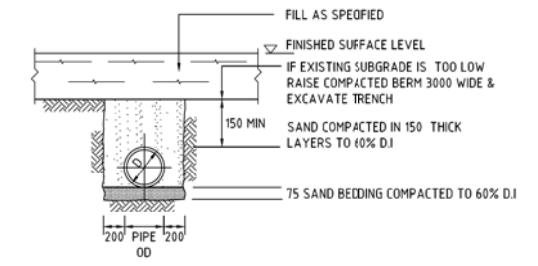
**SEALED JUNCTION PIT - SJP**



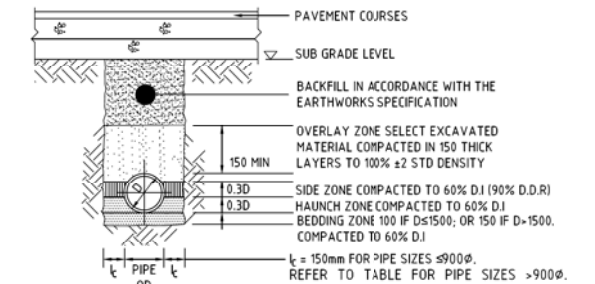
**SUPPORT TO AG. DRAIN**



**TYPE H1 SUPPORT TO CONCRETE PIPES AT LANDSCAPED AREAS**



**SUPPORT TO uPVC PIPES**



**TYPE HS2 SUPPORT TO CONCRETE PIPES UNDER PAVEMENT**

US 1350, MAX FILL = 4.0m  
D > 1350, MAX FILL = 3.0m

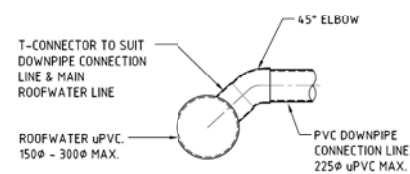
| BEDDING & HAUNCH MATERIAL GRADING |                   |
|-----------------------------------|-------------------|
| SIEVE SIZE                        | WEIGHT PASSING(%) |
| 19                                | 100               |
| 2.36                              | 100 TO 50         |
| 0.60                              | 90 TO 20          |
| 0.30                              | 60 TO 10          |
| 0.15                              | 25 TO 0           |
| 0.075                             | 10 TO 0           |

| SIDE ZONE MATERIAL GRADING |                   |
|----------------------------|-------------------|
| SIEVE SIZE                 | WEIGHT PASSING(%) |
| 75                         | 100               |
| 9.5                        | 100 TO 50         |
| 2.36                       | 100 TO 30         |
| 0.60                       | 50 TO 15          |
| 0.075                      | 25 TO 0           |

SELECT FILL MATERIAL IN ACCORDANCE WITH TABLE 1 AS 3125

| SIDE ZONE WIDTH |            |
|-----------------|------------|
| PIPE SIZE       | $t_c$ (mm) |
| $\leq 900\phi$  | 150        |
| 1050 $\phi$     | 175        |
| 1200 $\phi$     | 200        |
| 1350 $\phi$     | 225        |
| 1500 $\phi$     | 250        |
| 1650 $\phi$     | 275        |
| 1800 $\phi$     | 300        |

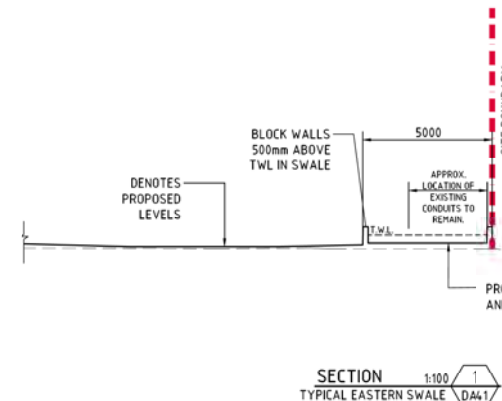
REFER TO ENGINEER FOR TRENCH WIDTHS FOR PIPE SIZES GREATER THAN 1800 $\phi$



**DOWN PIPE CONNECTION TO uPVC PIPE**

- PROPRIETARY T-PIECE CONNECTORS SHALL BE USED TO WHERE DIRECT CONNECTIONS ARE REQUIRED TO uPVC PIPES.
- ALL JOINTS TO BE SEALED WITH SOLVENT WELDED JOINTS.
- THE PVC PIPE SHALL NOT PROTRUDE BEYOND THE INNER SURFACE OF THE STORMWATER PIPE.

**DOWNPIPE CONNECTION DETAILS**  
SCALE 1:20



**SECTION**  
1:100  
1  
DA4.1



**Planning, Industry & Environment**

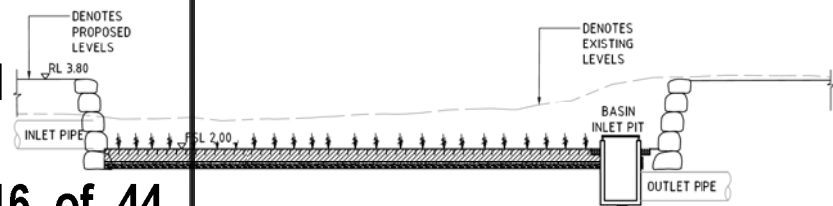
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**Approved Application No: SSD-10459**

**Granted on: 31 January 2021**

**Signed: JF Sheet No: 16 of 44**

**PIPE LAYING DETAILS**  
SCALE 1:20

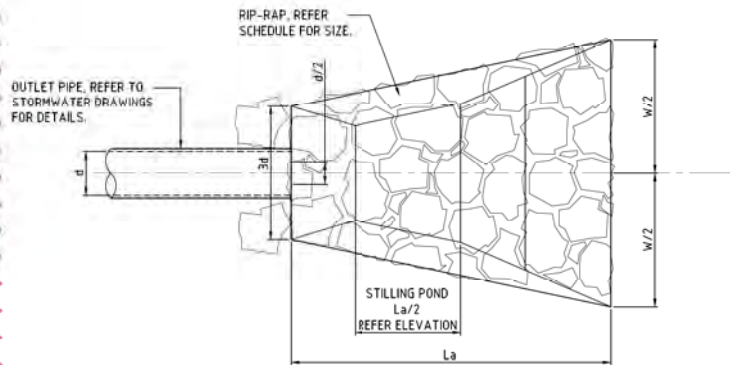


**SECTION**  
1:100  
2  
DA4.1

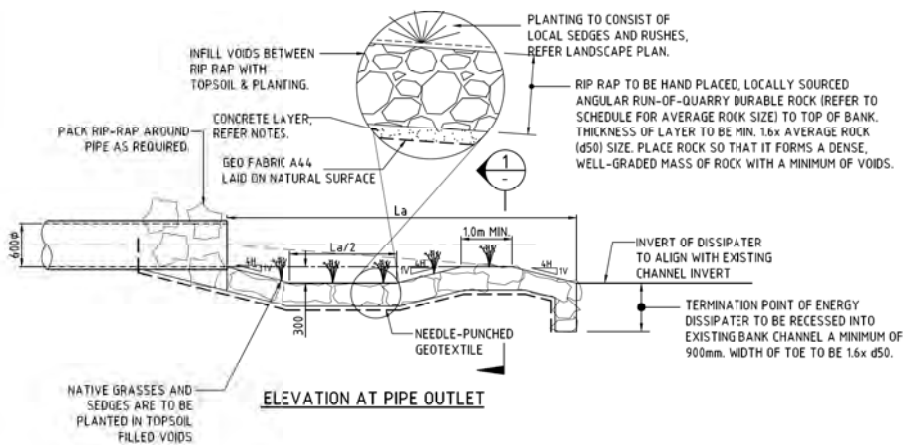
**FOR INFORMATION**

200mm 0 500 1000 1500 2000mm  
SCALE 1:20 AT A0 SHEET SIZE

|                        |  |          |   |            |  |        |  |         |  |                                            |  |                                |  |                      |  |                                                |  |                                         |  |                                |  |               |  |                                               |  |                |  |                 |  |               |  |                |  |
|------------------------|--|----------|---|------------|--|--------|--|---------|--|--------------------------------------------|--|--------------------------------|--|----------------------|--|------------------------------------------------|--|-----------------------------------------|--|--------------------------------|--|---------------|--|-----------------------------------------------|--|----------------|--|-----------------|--|---------------|--|----------------|--|
| ISSUED FOR INFORMATION |  | 12.08.20 | B | ARCHITECT  |  | CLIENT |  | PROJECT |  | SUSTAINABLE ROAD RESOURCE CENTRE (PHASE 1) |  | Costin Roe Consulting Pty Ltd. |  | Consulting Engineers |  | Level 1, 40 Macquarie Street, Sydney, NSW 2000 |  | Tel: (02) 9221-1000 Fax: (02) 9221-0752 |  | Email: costin@costinroe.com.au |  | DRAWING TITLE |  | CONCEPT STORMWATER DRAINAGE DETAILS - SHEET 1 |  | DRAWING No.    |  | C013919.01-DA45 |  | PAGE          |  | B              |  |
| ISSUED FOR INFORMATION |  | 21.07.20 | A | AMENDMENTS |  | DATE   |  | DATE    |  | DATE                                       |  | DATE                           |  | DATE                 |  | DATE                                           |  | DATE                                    |  | DATE                           |  | PRECISION     |  | COMMUNICATION                                 |  | ACCOUNTABILITY |  | PRECISION       |  | COMMUNICATION |  | ACCOUNTABILITY |  |



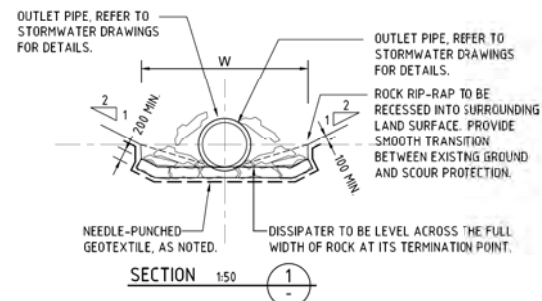
PLAN VIEW AT PIPE OUTLET



ELEVATION AT PIPE OUTLET

## OUTLET STRUCTURES

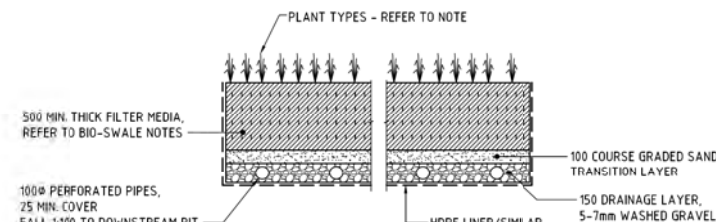
SCALE 1:50



## DISSIPATER NOTES:

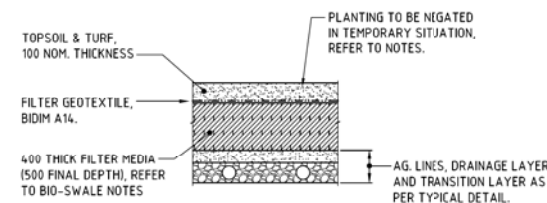
1. ALIGN STRUCTURE EVENLY WITH BANK.
2. LOCATE STRUCTURE AT INVERT LEVEL OF STREAM AND POINT IN A DOWNSTREAM DIRECTION.
3. PIPE TO REST ON, AND BE PACKED IN, BY RIP-RAP (SIZE AS NOTED) DISCHARGE INTO STREAM WHERE BEDROCK IS PRESENT. OTHERWISE SCOUR PROTECT AS REQUIRED.
4. SCOUR PROTECT THE OPPOSITE BANK AS REQUIRED. SCOUR PROTECTION TO BE PROVIDED WHERE OPPOSITE BANK IS WITHIN 12-14 TIMES THE PIPE DIAMETER.
5. RIP-RAP TO CONSIST OF ANGULAR RUN-OF-QUARRY ROCK (d50 = 150mm MINIMUM) AS NOTED IN THE SCHEDULE RIP-RAP TO BE MINIMUM THICKNESS OF RIP-RAP LAYER TO BE 1.6x AVERAGE ROCK SIZE (d50).
6. RIP-RAP IS TO BE PLACED OVER A 200mm LAYER OF MASS CONCRETE OVER NEEDLE-PUNCHED GEOFAB A44.
7. PLACE ROCK SO THAT IT FORMS A DENSE, WELL-GRADED MASS OF ROCK WITH A MINIMUM OF VOIDS. THE FINISHED RIP-RAP SURFACE SHOULD BE FREE OF POCKETS OF SMALL ROCK OR CLUSTERS OF LARGE ROCKS.
8. GAPS IN RIP-RAP TO BE HAND PACKED WITH TOPSOIL & PLANTED WITH NATIVE SEDGES & RUSHES TO PROVIDE. THE INTENT IS FOR THERE TO BE NO VOIDS BETWEEN RIP-RAP BOULDERS.
9. ENSURE THE FINISHED ROCK SURFACE BLENDS WITH THE SURROUNDING GROUND LEVELS. NO OVERFALL OR PROTRUSION OF ROCK SHOULD BE APPARENT.
10. ENSURE THAT STORMWATER FROM SURROUNDING GROUND IS FREE TO ENTER THE STRUCTURE WITHOUT CAUSING UNDESIRABLE PONDING OR SCOUR.

| OUTLET            | PIPE Ø  | La  | W   | d <sub>50</sub> | Q <sub>1</sub><br>FLOW | VELOCITY | Q <sub>20</sub><br>FLOW | VELOCITY |
|-------------------|---------|-----|-----|-----------------|------------------------|----------|-------------------------|----------|
| OUTLET 1 (DOWNER) | 1050Ø   | 10m | 12m | 0.8m            | 0.86m³/s               | 0.30m/s  | 1.90m³/s                | 0.50m/s  |
| OUTLET 2 (ESTATE) | 2x1350Ø | 15m | 20m | 1.0m            | 2.73m³/s               | 0.40m/s  | 6.18m³/s                | 0.60m/s  |



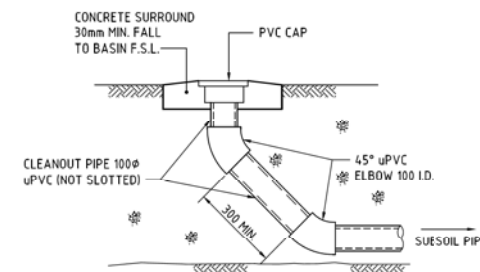
## TYPICAL BIO-RETENTION DETAIL

SCALE 1:20



## TEMPORARY BIO-RETENTION PROTECTION DETAIL

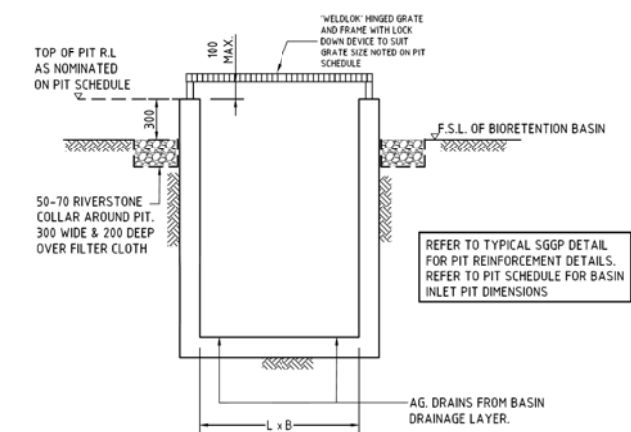
SCALE 1:20  
TEMPORARY CONSTRUCTION REQUIREMENT DETAIL - REFER TO NOTES FOR IMPLEMENTATION PERIODS.



## BIORETENTION CLEANOUT EYE ELEVATION

SCALE 1:20  
DENOTED C.E. ON PLAN

## BIO-RETENTION BASIN DETAILS



## SECTION

SCALE 1:20

## BASIN INLET PIT - BIP

SCALE 1:20 AT A0 SHEET SIZE

200mm 0 500 1000 1500 2000mm

SCALE 1:20 AT A0 SHEET SIZE



Planning,  
Industry &  
Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD-10459

Granted on: 31 January 2021

Signed: JF Sheet No: 17 of 44

FOR INFORMATION

|              |           |                |               |                |          |             |       |        |             |       |        |            |         |                                                                               |                                                                                                                                                                         |                                            |                                                              |                             |          |
|--------------|-----------|----------------|---------------|----------------|----------|-------------|-------|--------|-------------|-------|--------|------------|---------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------|-----------------------------|----------|
| DESIGNED: XC | DRAWN: HJ | DATE: 18.11.20 | CHECKED: A.S. | DATE: 12.08.20 | ISSUE: B | AMENDMENTS: | DATE: | ISSUE: | AMENDMENTS: | DATE: | ISSUE: | ARCHITECT: | CLIENT: | PROJECT: SUSTAINABLE ROAD RESOURCE CENTRE (PHASE 1) 9 DEVON STREET, CLYDE NSW | Costin Roe Consulting Pty Ltd. Consulting Engineers Level 1, 40 Macquarie Street, Sydney, NSW 2000 Tel: (02) 9221-1000 Fax: (02) 9221-0722 email: info@costinroe.com.au | PRECISION   COMMUNICATION   ACCOUNTABILITY | DRAWING TITLE: CONCEPT STORMWATER DRAINAGE DETAILS - SHEET 2 | DRAWING No: C013919.01-DA46 | ISSUE: C |
|--------------|-----------|----------------|---------------|----------------|----------|-------------|-------|--------|-------------|-------|--------|------------|---------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------|-----------------------------|----------|