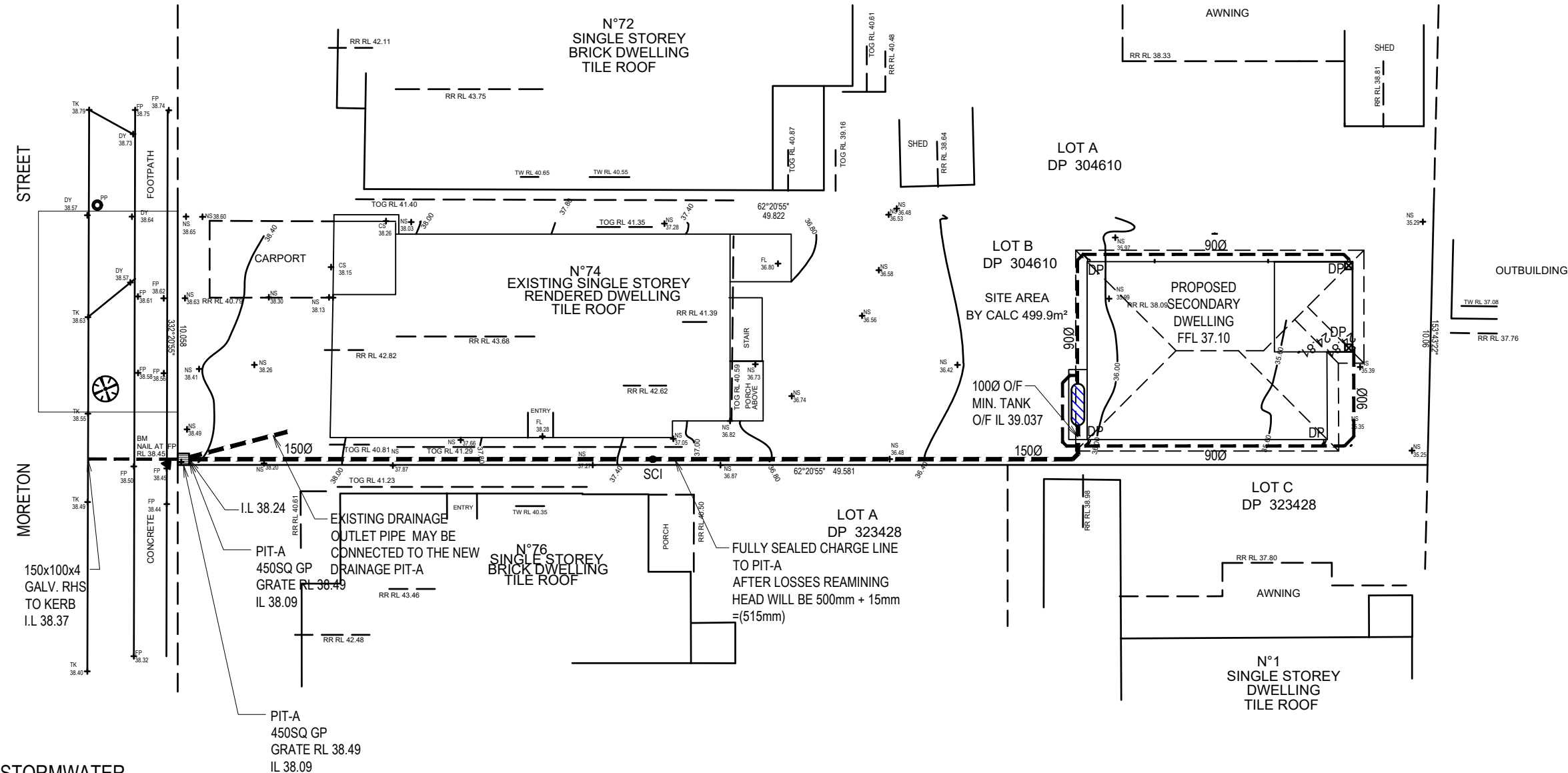




IT IS THE BUILDERS RESPONSIBILITY TO  
CONFIRM DEPTH & LOCATION OF ALL  
SERVICES PRIOR TO CONSTRUCTION  
AS THIS MAY AFFECT THE DESIGN.

THE STORMWATER SYSTEM HAS BEEN DESIGNED FOR  
DRAINING OF THE PROPOSED SECONDARY DWELLING  
ONLY. IT HAS NOT BEEN DESIGNED FOR CONNECTION  
OF EXISTING PIPES, HARDSTAND AREAS, BUILDINGS  
OR ANY FUTURE IMPROVEMENTS



W.H.S. NOTES

- ALL WORK IS TO COMPLY WITH WHS LEGISLATION AND RELEVANT CODES OF PRACTICE.
- ALL WORK IS TO BE IN ACCORDANCE WITH BUILDER'S CONSTRUCTION WHS MANAGEMENT SYSTEM AND SAFE WORK METHOD STATEMENT.
- A RISK ASSESSMENT OF EACH OF THE FOLLOWING MUST BE UNDERTAKEN FOR THIS WORKSITE:
  - SITE ACCESS.
  - TRAFFIC MANAGEMENT DURING DELIVERY OF BUILDING MATERIALS.
  - OVERHEAD & UNDERGROUND UTILITIES.
  - STABILITY OF STRUCTURES ADJACENT TO THE EXCAVATION.
  - EFFECT OF THE WORKS ON ADJACENT PROPERTIES.
  - STRUCTURAL ADEQUACY OF FORMWORK.
  - SAFE PERSONNEL ACCESS WITHIN AND AROUND THE CONSTRUCTION WORK.
  - COLLAPSE OF EXISTING & IMPROVEMENTS INTO EXCAVATIONS.

GENERAL NOTES

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH CURRENT ARCHITECTURAL AND ALL OTHER CONSULTANT'S DRAWINGS AND SPECIFICATIONS, AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE WORKS. ANY VARIATIONS TO ARCHITECTURAL OR OTHER CONSULTANTS DRAWINGS SHOULD BE BROUGHT TO THE ATTENTION OF ALL CONSULTANTS.
- NO BUILDING WORKS SHALL BE CONSTRUCTED ON OR OVER ANY ALLOTMENT BOUNDARY OR EASEMENT OR OTHER SIMILAR SUCH PROPERTY TITLE WITHOUT THE NECESSARY PERMITS AND/OR APPROVALS. THESE DRAWINGS DO NOT CONSTITUTE SUCH PERMITS AND/OR APPROVALS IRRESPECTIVE OF WHETHER BUILDING WORKS ARE SO INDICATED ON OR OVER SUCH PROPERTY TITLES.
- SETTING-OUT DIMENSIONS, RL's, STEPS & SETDOWNS SHALL BE VERIFIED BY THE BUILDER PRIOR TO COMMENCEMENT OF SITE WORK. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS. DIMENSIONS ARE IN MILLIMETRES, UNLESS INDICATED OTHERWISE. DRAWING PRACTICE IS TO AS1100.
- DURING CONSTRUCTION ALL STRUCTURES AND STRUCTURAL ELEMENTS SHALL BE MAINTAINED IN A SAFE AND STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUSTRALIAN STANDARDS, THE BUILDING CODE OF AUSTRALIA AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITY.
- DURING CONSTRUCTION, TEMPORARY SHORING IS TO BE PROVIDED TO ALL EXCAVATIONS & UNRETAINED SOIL FACES.
- ALL EXCAVATIONS & UNRETAINED SOIL FACES ARE TO BE BATTERED OR SUPPORTED BY A SUITABLY DESIGNED RETAINING STRUCTURE.
- ALL TEMPORARY SUPPORT STRUCTURE i.e. PROPPING, BRACING, SHORING, FORMWORK ETC., SHALL BE DESIGNED AND APPROVED PRIOR TO COMMENCING WORKS ON SITE. THE DESIGN, CERTIFICATION AND APPROVAL OF TEMPORARY SUPPORT STRUCTURE IS THE RESPONSIBILITY OF THE TEMPORARY WORKS ENGINEER / CONTRACTOR AND IS BEYOND THE SCOPE OF SUS CONSULTING SERVICES FOR THIS PROJECT.

STORMWATER

- THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DETAILS.
- ALL WORKS IN ACCORDANCE WITH AS3500, COUNCIL DEVELOPMENT CONTROL PLANS, SYDNEY WATER REQUIREMENTS AND PROPRIETARY MANUFACTURER'S RECOMMENDATIONS.
- LOCATION OF TANK & TANK TYPES CAN BE VARIED AT OWNER'S DIRECTION.
- ALL STORMWATER PIPES TO BE 900 STORMWATER GRADE, U.N.O. JOINTED & INSTALLED TO MANUFACTURER'S RECOMMENDATIONS.
- ALL STORMWATER LINES TO HAVE ALL JOINTS, INC. DP CONNECTIONS, FULLY SOLVENT WELDED (AS LINES ARE 'CHARGED')
- ROOF GUTTERS, DOWNPIPES AND PIPELINES ARE TO BE SIZED FOR THE 100-YEAR ARI DESIGN STORM.
- THE SEALED PORTION OF THE DOWNPIPES AND CHARGE LINES ARE TO BE OF UV PROTECTED MATERIAL MUST BE PAINTED, IN A COLOUR
- 

STORMWATER MANAGEMENT PLAN

1:200

CONNECT ALL DOWNPIPES OF SECONDARY DWELLING TO ASSIGNED RAINWATER TANK

LEGEND

FFL 44.80

44.90

O/F

DP

SCI

FINISHED FLOOR LEVEL  
EXISTING SURFACE LEVEL, CONTOURS  
SHOWN ALSO EXISTING  
OVERFLOW FROM RAINWATER TANK  
INDICATES DIRECTION OF SURFACE FLOW  
RAINWATER HARVESTING TANK SIZE AND  
REUSE TO BASIX REQUIREMENTS  
DOWNPIPES  
SEALED CLEANING EYES

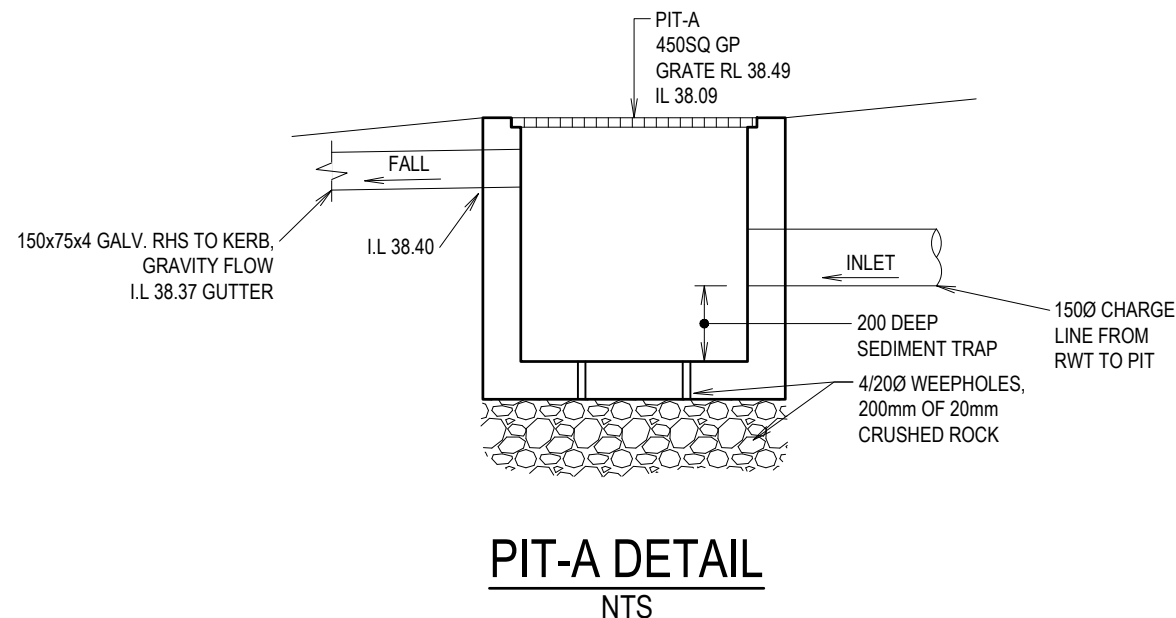
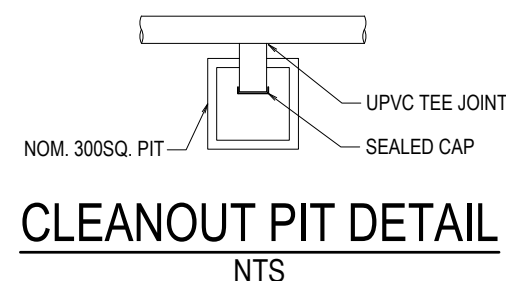
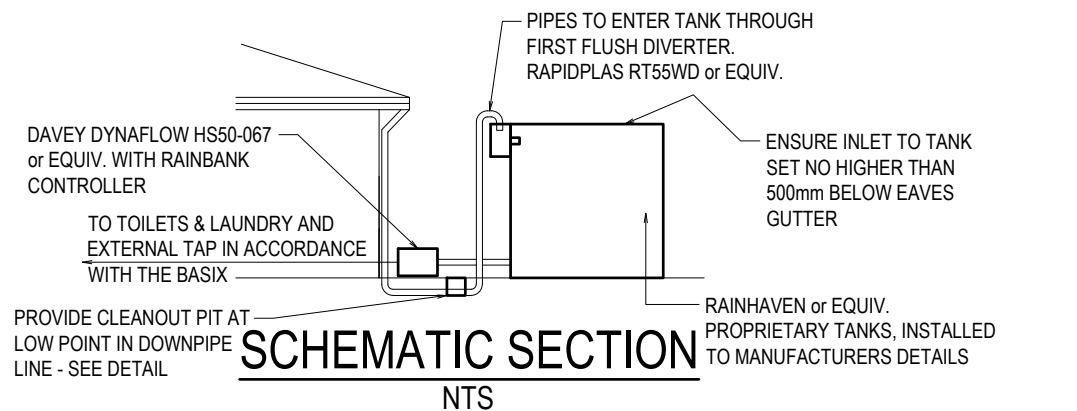
CLIENT:  
MS RICHA K C  
C/O PARSHI ARCHIDESIGN AND  
CONSTRUCTION

JOB:  
CONSTRUCTION OF A DETACHED  
SECONDARY DWELLING AT 74  
MORETON STREET, LAKEMBA, NSW  
2195

JOB NO: 2609 | DRAWING TITLE:  
SW-01,SHEET 1 OF 2  
APPROVED BY:   
B.E. M.E. MIEAust  
Drawn by: SMU | Checked by: SUS  
Date: 29/04/2026 | SCALE 1:200

|          |                     |      |  |
|----------|---------------------|------|--|
|          |                     |      |  |
| 25.07.26 | AMENDED             | B    |  |
| 29.04.26 | ISSUED FOR APPROVAL | A    |  |
| Date     | Revision            | REV. |  |

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enr.siraj70@gmail.com  
Contact: 04 2652 0664



# Charged Line Calculation

| 2606                                                        |      | RWT O/F Outlet to Kerb |       |
|-------------------------------------------------------------|------|------------------------|-------|
| Storm Event                                                 |      | 5 %AEP                 |       |
| Time of Concentration                                       |      | 5 min                  |       |
| Rainfall Intensity                                          |      | 170 mm/hr              |       |
| Coefficient of Runoff                                       |      | 1                      |       |
|                                                             |      |                        |       |
|                                                             |      |                        |       |
| Total Roof Area                                             |      | 87.5                   | m2    |
| Q                                                           |      | 4.1                    | L/s   |
| Pipe Type                                                   |      | PVC                    |       |
| Pipe Dia (m)                                                |      | 0.1                    |       |
| V                                                           |      | 0.53                   | m/s   |
|                                                             |      |                        |       |
|                                                             |      |                        |       |
| Head Losses                                                 |      |                        |       |
| (k = f x L / d)                                             | No.  | k value                | total |
| k <sub>pipe length (m)</sub>                                | 40.5 | 0.015                  | 6.08  |
| k <sub>entry</sub>                                          | 1    | 0.5                    | 0.50  |
| k <sub>90 bends</sub>                                       | 2    | 1.1                    | 2.20  |
| k <sub>45 bends</sub>                                       | 2    | 0.35                   | 0.70  |
| k <sub>enlargement</sub>                                    | 1    | 0.26                   | 0.26  |
| k <sub>contractions</sub>                                   | 0    | 0.26                   | 0.00  |
| k <sub>tee branch</sub>                                     | 0    | 0.35                   | 0.00  |
| k <sub>reflux valve</sub>                                   | 0    | 2.5                    | 0.00  |
| k <sub>exit</sub>                                           | 1    | 1                      | 1.00  |
|                                                             |      | Total k =              | 10.74 |
| HL = k x v <sup>2</sup> /2g (Includes 10% factor of safety) |      |                        |       |
| Total Head Loss =                                           |      | 0.167 m                |       |
|                                                             |      |                        |       |
| Kerb Invert Level                                           |      | 38.370                 |       |
| Additional 0.5m of head                                     |      | 0.500                  |       |
| Minimum Tank O/F IL                                         |      | 39.037                 |       |
|                                                             |      |                        |       |

AFTER LOSSES REAMINING HEAD WILL BE 500mm + 15mm =(515mm)

|                                                                       |                                                                                                        |                                                                                                          |                                      |          |                     |      |                                                                                                                                                 |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------|----------|---------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| CLIENT:<br>MS RICHA K C<br>C/O PARSHI ARCHIDESIGN AND<br>CONSTRUCTION | JOB:<br>CONSTRUCTION OF A DETACHED<br>SECONDARY DWELLING AT 74<br>MORETON STREET, LAKEMBA, NSW<br>2195 | JOB NO: 2609                                                                                             | DRAWING TITLE:<br>SW-02,SHEET 2 OF 2 |          |                     |      | SUS Consulting (Structural and Civil Engineers.)<br>7 PEREGRINE CLOSE, ABERGLASSLYN, NSW 2320<br>enr.siraj70@gmail.com<br>Contact: 04 2652 0664 |
|                                                                       |                                                                                                        | APPROVED<br>BY:<br> | B.E. M.E. MIEAust                    | 25.07.26 | AMENDED             | B    |                                                                                                                                                 |
|                                                                       |                                                                                                        |                                                                                                          |                                      | 29.04.26 | ISSUED FOR APPROVAL | A    |                                                                                                                                                 |
|                                                                       |                                                                                                        | Drawn by: SMU                                                                                            | Checked by: SUS                      | Date     | Revision            | REV. |                                                                                                                                                 |
|                                                                       |                                                                                                        | Date: 29/04/2026                                                                                         | SCALE 1:200                          |          |                     |      |                                                                                                                                                 |