

NOTES:

1. ALL CONCRETE TO BE 20 MPa AND CONSTRUCTED IN ACCORDANCE WITH NZS 3109 WITH A BROOM FINISH.
2. CONCRETE POUR MUST TAKE PLACE WITHIN 48 HRS OF EXCAVATION OF ROAD RESERVE & FOOTPATH AT INSPECTION TIME
3. SAW CUT EXPANSION JOINTS AT 4m CENTRES.
4. MOUNTABLE KERBS TO BE CUT OUT BEFORE CONCRETE PLACEMENT.
5. VEHICLE CROSSINGS SHALL BE DESIGNED TO ENABLE THE 90 PERCENTILE CAR TO USE THEM WITHOUT THE GROUNDING OF ANY PART OF THE VEHICLE.
6. THE PREFERRED FOOTPATH LOCATION IS SEPARATED FROM THE KERB AND CHANNEL.



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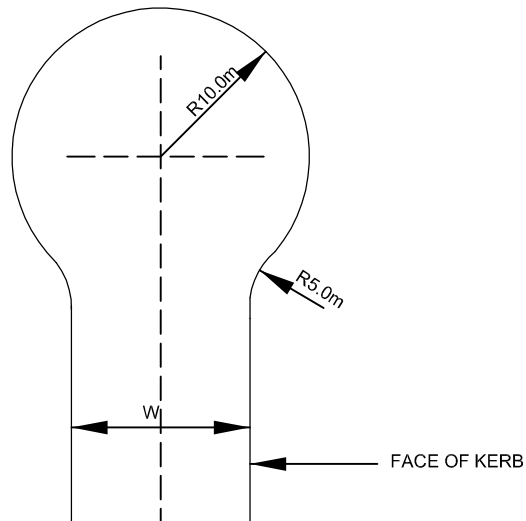
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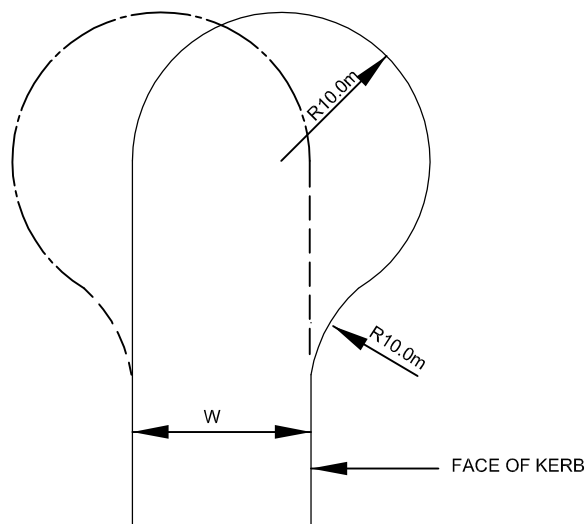
DWG NO:

R 7

**VEHICLE CROSSING
(COMMERCIAL)**



CIRCULAR TURNING AREA FOR RESIDENTIAL CUL-DE-SAC



R=10.0m FOR WIDTH <7.8m
R=12.0m FOR WIDTH >7.8m

OFFSET CIRCULAR TURNING AREA FOR RESIDENTIAL CUL-DE-SAC

NOTES:-

1. THE TURNING AREA DIMENSIONS SHOWN ARE MINIMUM.
2. INDUSTRIAL OR COMMERCIAL AREAS, THE RADIUS OF THE CUL-DE-SAC TURNING AREAS SHALL BE 12.5m.

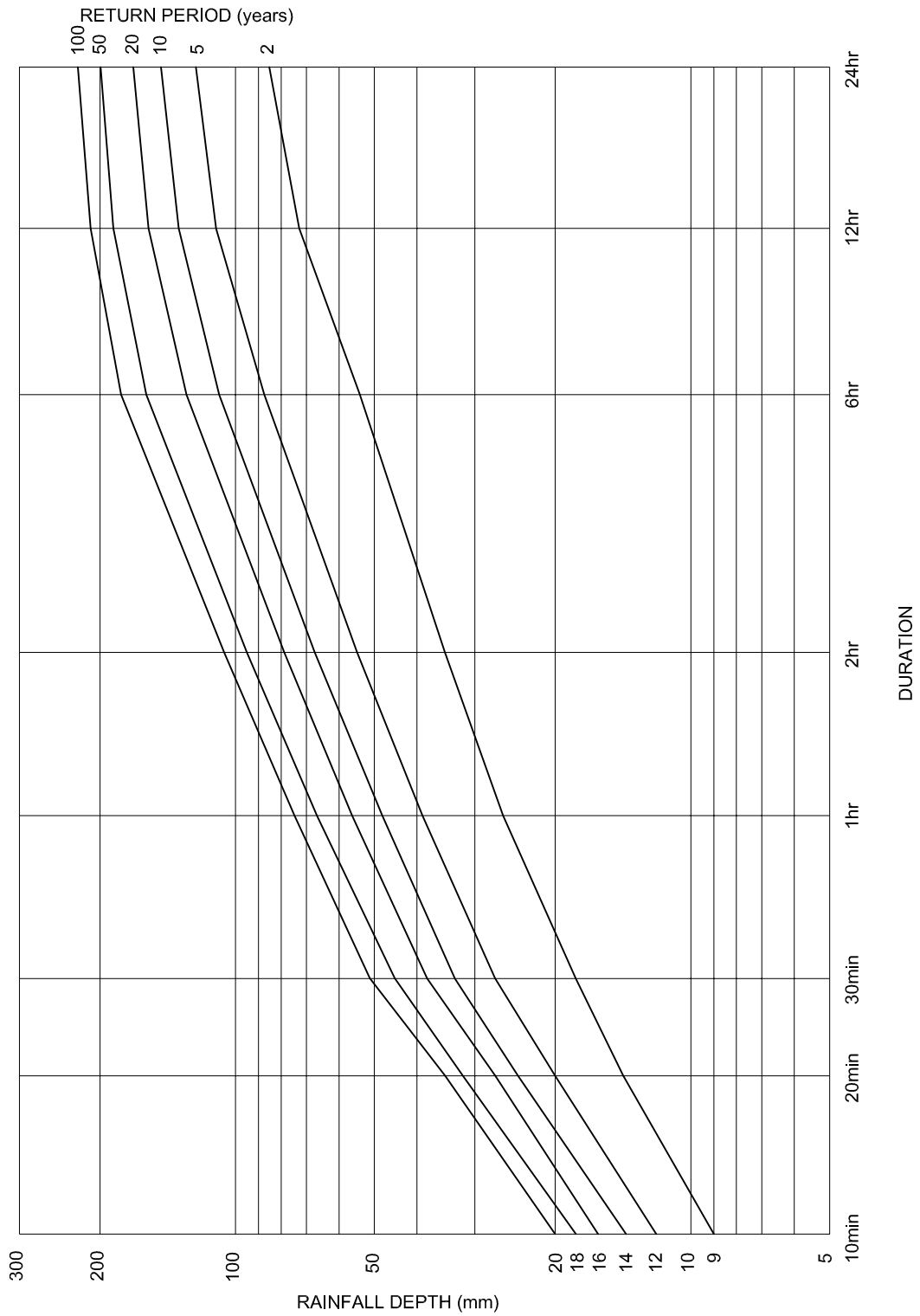


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DWG NO: R 13

**URBAN STREET DIMENSION
OF CUL-DE-SAC HEAD**



ANNUAL RAINFALL DEPTH-DURATION-FREQUENCY ANALYSIS
 PAPAURA FILTER STATION-SITE No. 750012
 (Data between 1973 ~ 1990)

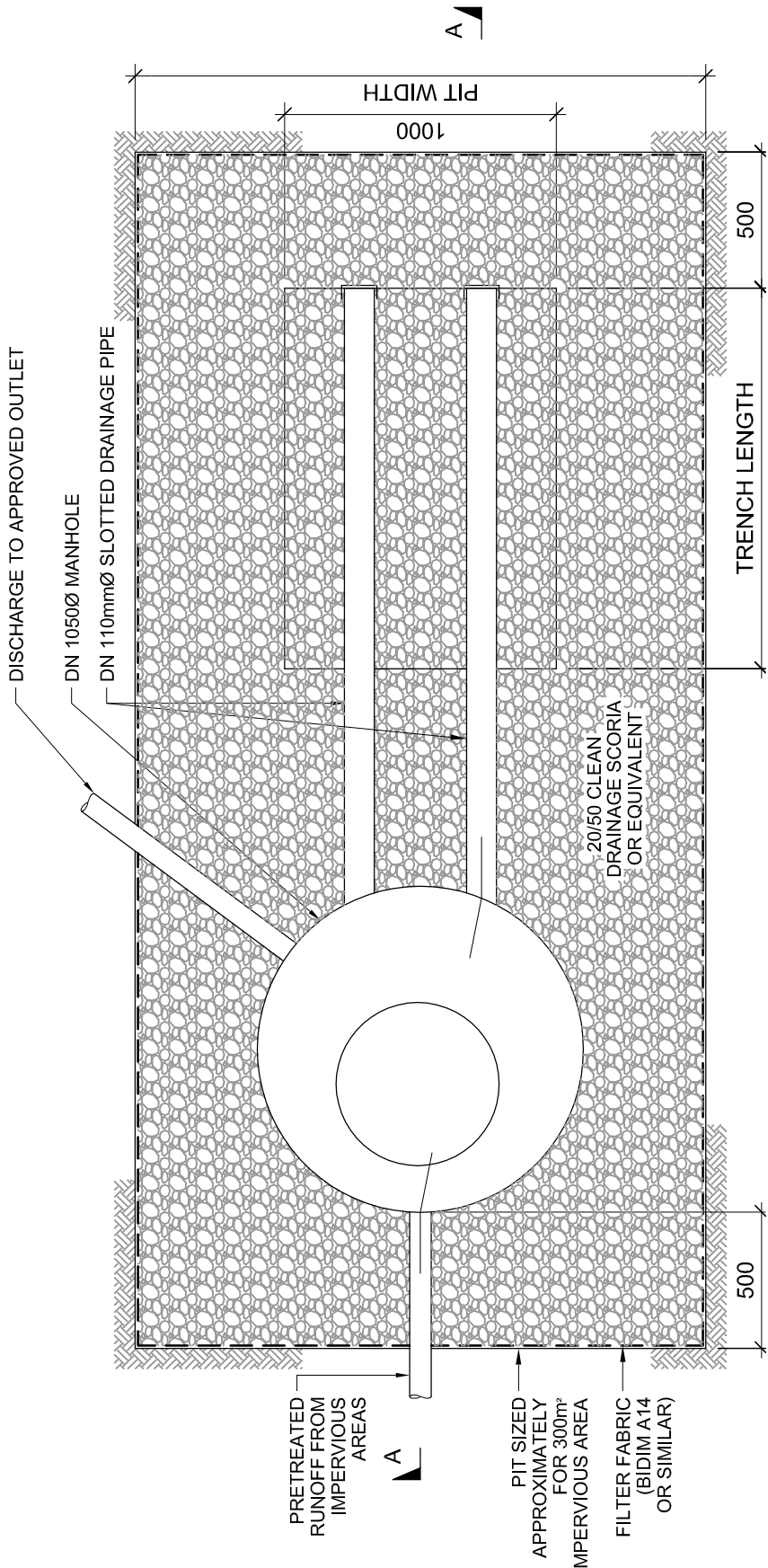


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DWG NO: SW - 2

DESIGN RAINFALL D.D.F. CURVES



NOTES

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
2. PRIVATE SW CONNECTION PIPES LAID WITH <600mm COVER REQUIRE CONCRETE PROTECTION.
3. MANHOLE INSTALLATION AND SW CONNECTION TO PUBLIC SYSTEM AS PER THE RELEVANT PARTS OF THE PDC DEVELOPMENT CODE.
4. LEAF TRAP TO BE INSTALLED IN ROOF GUTTERS.
5. ALL SCORIA/SOIL INTERFACES TO BE LINED WITH FILTER FABRIC (BIDIM A14 OR SIMILAR).
6. RECHARGE PITS MUST NOT BE LOCATED WITHIN 3.0m OF BUILDINGS OR BOUNDARIES, OR 2.0m OF SANITARY SEWERS.
7. 20mmØ HOLES IN MH CHAMBER TO BE DRILLED AT 300mm HORIZONTAL SPACING AND 150mm VERTICAL SPACING.
8. DEVICE DIMENSIONS TO BE SIZED IN ACCORDANCE WITH SW-22.



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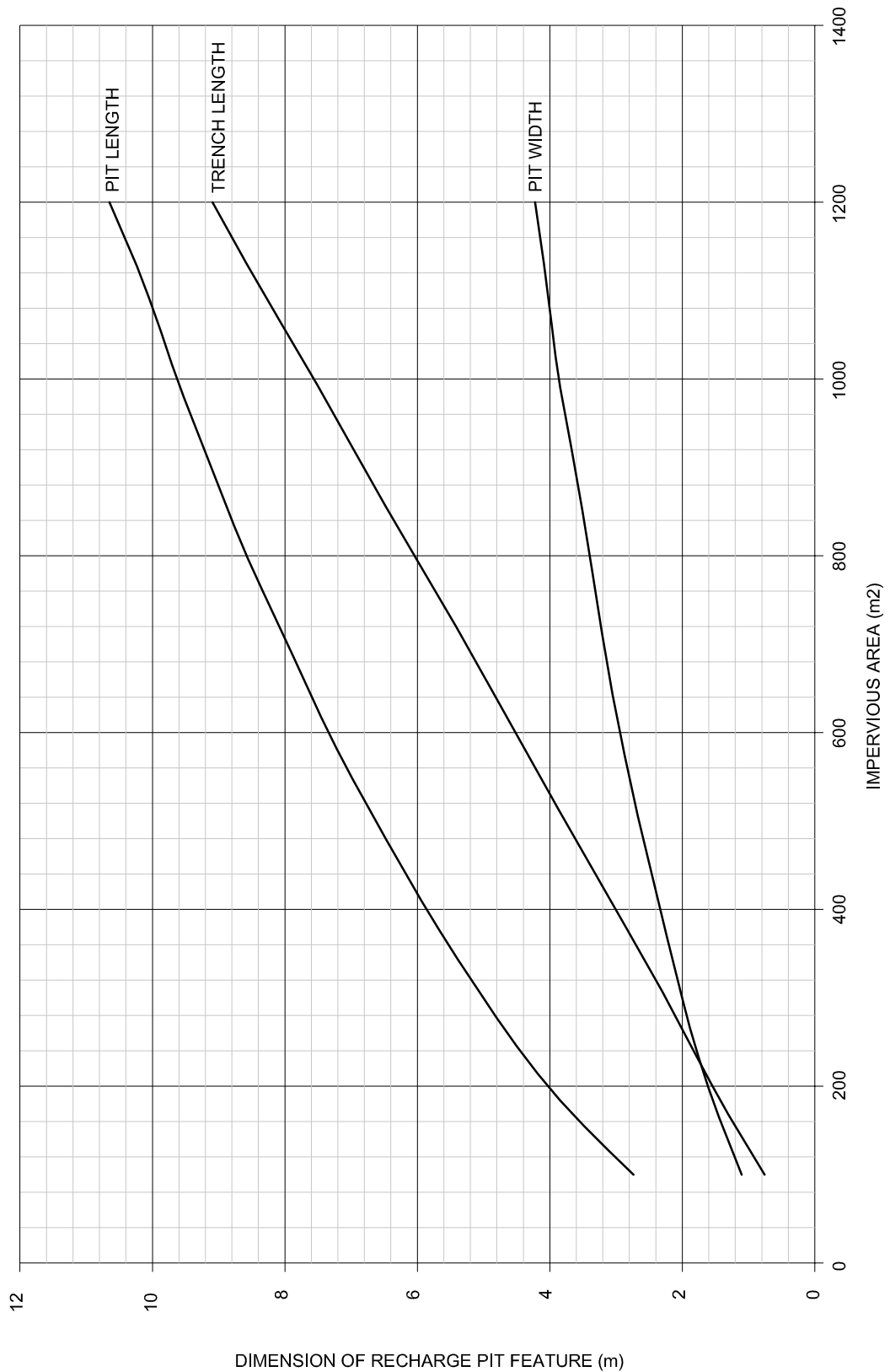
DATE ISSUED:

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DWG NO:

SW - 20

**GROUNDWATER RECHARGE PIT
FOR PEAT AREAS
(PLAN)**



TRENCH LENGTH EQUATION
 $y=0.0076x - 0.0332$

PIT LENGTH EQUATION
 $y=0.2275x^{0.5423}$

PIT WIDTH EQUATION
 $y=0.0911x^{0.5423}$



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DWG NO: SW - 22

RECHARGE PIT FEATURE DIMENSIONS V IMPERVIOUS AREA