CITY OF PROSPECT

Payinthi
128 Prospect Road
PO Box 171
Prospect SA 5082
Telephone (08) 8269 5355
admin@prospect.sa.gov.au
www.prospect.sa.gov.au

Works on a Public Road Standard Requirements

Irrigation System Installation on Verge

Location

Irrigation pipes should be installed to minimise any disturbance to the street tree root zone, with trench depth and width minimised directly around the tree base.

All control valves and wiring for automated systems are to be located within the private property.

The irrigation system should be contained within the frontage extents of the property.

Materials and Installation

All pipes, sprinklers, and drippers shall be Class 12 PVC or high density poly equivalent, and installed a minimum of 150mm below the base of the footpath.

Reinstatement

Pipe trenches shall be reinstated, compacted and then completed with the same material on the surface of the verge as existing. The footpath shall be reinstated in accordance with the standard detail included within this sheet.

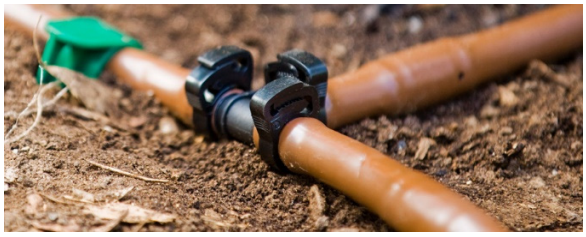
Pop Up Sprinklers

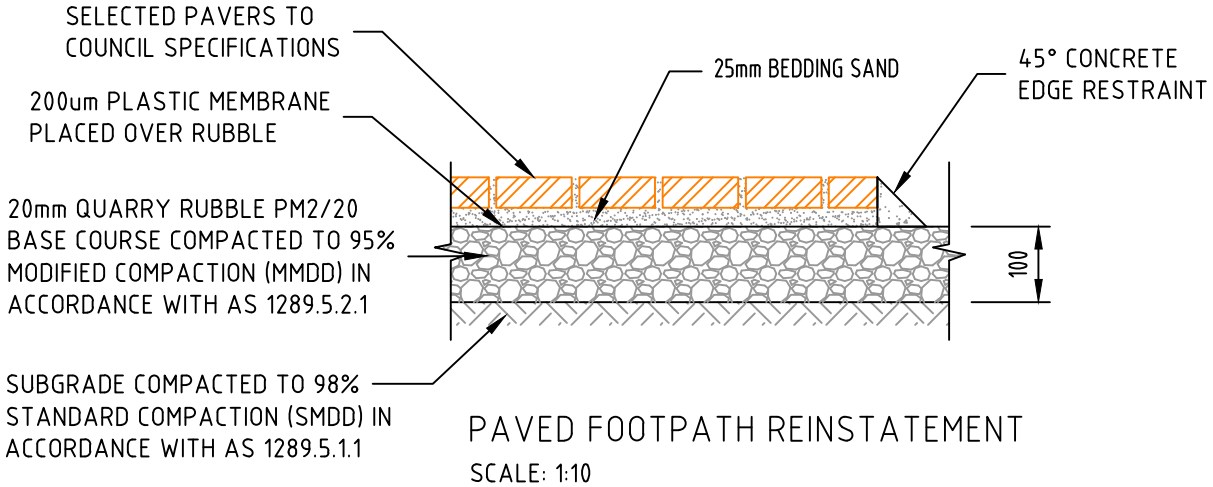
The design of the irrigation system and sprinklers should ensure that spray over footpaths and crossovers is avoided. All pipes and sprinklers shall be installed below ground level.



Dripper Systems

All dripper pipes shall be installed below ground level or below a layer of mulch and staked into the ground to prevent trip hazards.

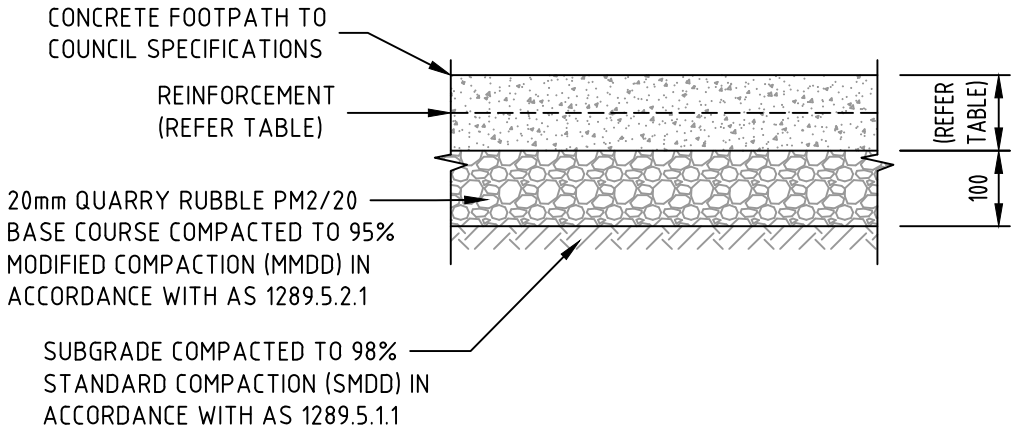




PAVED FOOTPATH REINSTATEMENT

SCALE: 1:10

MINIMUM FOOTPATH WIDTH TO BE 1.5m UNLESS OTHERWISE APPROVED BY COUNCIL.



CONCRETE FOOTPATH REINSTATEMENT

SCALE: 1:10

TOOLED JOINTS TO BE PROVIDED @ 3000 c/c

EXPANSION JOINTS TO BE PROVIDED @ 15000 c/c

FOOTPATH SURFACE SHOULD BE SLIP RESISTANT BROOMED FINISH.

CONCRETE SPECIFICATIONS		
LOADING TYPE	THICKNESS	REINFORCEMENT
NON-VEHICULAR	100	-
PASSENGER VEHICLES	100	SL62
COMMERCIAL VEHICLES	150	SL72

NOTES:

REFER SHEET 2 OF 3 FOR PAVED FOOTPATH CONSTRUCTION SPECIFICATIONS AND FURTHER INFORMATION.

REFER SHEET 3 OF 3 FOR CONCRETE FOOTPATH CONSTRUCTION SPECIFICATIONS AND FURTHER INFORMATION.

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FOOTPATH REINSTATEMENT

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ALL PAVING AND MATERIAL SHALL COMPLY WITH

- AS4455 - MASONRY UNITS AND SEGMENTAL PAVERS.
- AS3661.1 - SLIP RESISTANCE OF PEDESTRIAN SURFACES - REQUIREMENTS.
- AS4456 (PARTS 1 TO 13) - MASONRY UNITS AND SEGMENTAL PAVERS - METHODS OF TEST.

GENERAL

- CLAY FIRED AND CONCRETE PAVERS SHALL BE A MINIMUM OF 60MM THICK, 80MM FOR COMMERCIAL / INDUSTRIAL APPLICATIONS.
- CONCRETE PAVERS ARE TO HAVE A MINIMUM 28 DAY CHARACTERISTIC STRENGTH OF 45 MPA.
- SURFACE COATINGS SHALL NOT BE APPLIED UNLESS APPROVED IN WRITING BY COUNCIL.
- ALL PAVERS UNITS SHALL BE SOUND, FIRM, DENSE, DIMENSIONALLY STABLE AND CONSISTENT, WITH A SMOOTH UNBLEMISHED UPPER SURFACE.
- PAVING UNIT COLOURS SHALL BE UNIFORM AND MATCH THE SURROUND UNITS IN THE STREET, OR AS SPECIFIED BY COUNCIL.
- COMPACTION TEST FREQUENCY - SUBBASE AND SUBGRADE TO BE 1/500M^2 OR 3 PER LOT OR AS AGREED WITH COUNCIL REPRESENTATIVE.

BEDDING SAND

- BEDDING MATERIAL SHALL BE CLEAN SAND OF A GRADE CONFORMING TO SA-C SPECIFICATION

PREPARATION OF BEDDING SAND

- SAND SHALL BE PLACED AT OPTIMAL MOISTURE CONTENT WHEN SPREAD. THE SAND BEDDING SHALL BE SPREAD LOOSE IN A UNIFORM LAYER. THE DEPTH SHALL BE DETERMINED BY ON SITE TRIALS PRIOR TO SPREADING AND SHALL BE SUCH THAT AFTER COMPACTION, A THICKNESS OF 25MM, ± 5MM IS ACHIEVED. UNDER NO CIRCUMSTANCE SHALL BEDDING BE USED FOR LEVELLING.

SCREEDING

- THE SPREAD SAND SHALL BE CAREFULLY MAINTAINED IN A LOOSE CONDITION AND PROTECTED AGAINST PRE-COMPACTION FROM ANY CAUSE, INCLUDING RAIN, BOTH PRIOR TO AND FOLLOWING SCREEDING. ANY PRE COMPACTED SAND OR SCREEDED SAND LEFT OVERNIGHT SHALL BE REMOVED AND REPLACED.
- ANY DEPRESSIONS IN THE SCREEDING SAND EXCEEDING 5MM SHALL BE LOOSENED, RAKED AND RESCREEDED BEFORE LAYING PAVERS.

JOINTING SAND

- MATERIAL FOR FILLING UNBOUND JOINTS SHALL BE SAND THAT MUST PASS 1.18MM SIEVE, WITH <10% PASSING 75 MICRON SIEVE.
- JOINTING SAND SHALL BE FREE OF DELETERIOUS QUANTITIES SUCH AS SALTS AND OTHER CONTAMINANTS WHICH WOULD CAUSE SURFACE STAINING.
- JOINTING SAND SHALL BE DRY WHEN SPREAD. IT SHALL BE COVERED WHEN STORED ON SITE TO PROTECT IT FROM RAIN PENETRATION.
- SAND USED FOR BEDDING IS NOT SUITABLE FOR JOINT FILLING.

LAYING AND FINISHING

- INSTALL PAVERS ON THE SCREEDED SAND BED IN THE LOCATION, PATTERN AND DETAIL AS INDICATED ON DRAWINGS. NEATLY DIAMOND SAW CUT PAVERS AS NECESSARY ADJACENT TO EDGES, LIGHTS, MANHOLES ETC. MAINTAIN CONSTANT BOND WITH JOINT WIDTHS TYPICALLY 2MM UNLESS NOTED OTHERWISE. PAVING UNITS SHALL BE LAIN WITH 2MM TO 5MM GAPS BETWEEN ADJACENT UNITS SUCH THAT JOINTING SAND WILL READILY PENETRATE TO THE FULL DEPTH OF THE PAVING UNITS. ALL JOINTS SHALL BE CORRECTLY ALIGNED AND NO CONTACT SHALL EXIST BETWEEN ADJACENT PAVING UNITS.
- ALL UNITS ARE TO BE CUT USING A POWER DIAMOND SAW UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE SUPERINTENDENT FOR THE USE OF OTHER MEANS OF CUTTING.
- INFILL SPACES BETWEEN 25MM AND 50MM WIDE WITH 32MPA CONCRETE WITH A MAXIMUM AGGREGATE SIZE OF 10MM. DRY PACKED MORTAR MAY BE USED TO INFILL SMALL SPACES. IN ALL CASES, THE INFILL IS TO EXTENDED FOR THE FULL DEPTH OF THE ADJOINING PAVING UNITS. CONCRETE AND MORTAR SHALL BE COLOURED TO MATCH THE PAVING UNITS WITH DUE ALLOWANCE BEING MADE FOR THE EFFECTS OF WEATHERING.
- ACCESS CHAMBERS, DRAINAGE GULLIES AND SIMILAR PENETRATIONS THOUGH THE PAVEMENT SHALL BE FINISHED AGAINST THE PAVING WITH A CONCRETE SURROUND OR APRON DESIGNED TO SUIT AND FIR THE LAYING PATTERN, OTHERWISE COMPLYING WITH THE REQUIREMENTS FOR EDGE RESTRAINTS.
- CONSTRUCTION TRAFFIC ON PAVING PRIOR TO MECHANICAL COMPACTION SHALL BE LIMITED TO FOOT OR BARROW TRAFFIC USING OVERLAY BOARDS TO PREVENT DISTURBANCE TO UNDERLYING UNITS.
- AFTER LAYING, MECHANICALLY COMPACT THE AREA USING A HIGH FREQUENCY, LOW AMPLITUDE FLAT PLATE COMPACTOR HAVING A MINIMUM PLATE AREA OF 0.25M^2 AND AN ENERGY OUTPUT SUFFICIENT TO COMPACT THE BEDDING SAND BENEATH THE PAVING UNITS. THE COMPACTOR SHALL BE FITTED WITH AN APPROVED ROLLER ATTACHMENT OR A SECTION OF CARPET SECURELY FITTED TO THE UNDERSIDE OF THE PLATE TO PREVENT DAMAGE TO THE SURFACE OF THE PAVING UNITS.

EDGE RESTRAINTS

- MORTARED BRICK OR PAVER UNIT EDGING OR HEADER COURSES SHALL BE SET ON A 100MM MINIMUM THICKNESS BED OF CEMENT MORTAR. JOINTING AND BED MORTAR SHALL BE MADE FROM 4 PARTS SAND TO 1 PART CEMENT AND MIXED THOROUGHLY WITH THE CORRECT AMOUNT OF WATER. THOROUGHLY CLEAN ALL AREAS OF STAINS, MORTAR DROPPINGS AND THE LIKE.
- FACES OF EDGE RESTRAINTS ABUTTING PAVERS SHALL BE VERTICAL.
- AFTER THE CONCRETE HAS HARDENED AND NOT EARLIER THAN THREE DAYS AFTER PLACING UNLESS OTHERWISE DIRECTED BY THE SUPERINTENDENT THE SPACES AT THE BACK OF THE EDGE RESTRAINT SHALL BE BACKFILLED WITH EARTH, COMPACTED IN LAYERS NOT GREATER THAN 150MM THICK, THEN TOPSOILED TO MEET SURROUNDING DESIGN LEVELS.

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GENERAL

- FORMWORK DESIGN AND CONSTRUCTION FORMED SURFACES: TO AS 3610 AND AS 3610.1.
- STEEL REINFORCEMENT FABRICATION AND FIXING TO AS3600.
- CONCRETE -MATERIALS AND CONSTRUCTION: TO AS 1379.
- CONCRETE STRENGTH TO BE N25 TO AS 3600.

PREPARATION

- POOR SUBGRADES: PROOF ROLL OR OTHERWISE VERIFY EXISTING SUBGRADES ARE SOUND. IF WEAK OR OTHERWISE UNSUITABLE SUBGRADES ARE ENCOUNTERED, SEEK DIRECTION FROM SUPERINTENDENT.
- EXISTING PAVEMENTS: DEMOLISH EXISTING KERB / PAVEMENT AS REQUIRED, AND TRIM / TOP-UP EXISTING RUBBLE SUBBASE, AND COMPACT TO 98% MMDD. IF NO RUBBLE BASE IS PRESENT, SEEK DIRECTION FROM SUPERINTENDENT.
- NEW PAVEMENTS: INSTALL KERBING DIRECTLY ONTO SUB-BASE PREPARED IN ACCORDANCE WITH PAVEMENT DETAIL.
- COMPACTION TEST FREQUENCY - SUBBASE AND SUBGRADE TO BE 1/500M^2 OR 3 PER LOT OR AS AGREED WITH COUNCIL REPRESENTATIVE.

REINFORCEMENT

- GENERAL: PROREFER PROPRIETARY CONCRETE, METAL OR PLASTIC SUPPORTS TO REINFORCEMENT IN THE FORM OF CHAIRS, SPACERS, STOOLS, HANGERS AND TIES, WITH THE FOLLOWING SPACINGS:
- FABRIC: 800MM.
- SECURE THE REINFORCEMENT AGAINST DISPLACEMENT BY TYING AT INTERSECTIONS WITH EITHER WIRE TIES, OR CLIPS. BEND THE ENDS OF WIRE TIES AWAY FROM NEARBY FACES OF FORMS SO THAT THE TIES DO NOT PROJECT INTO THE CONCRETE COVER.
- PROREFER ALL REINFORCEMENT IN THE LENGTHS DOCUMENTS. IF SPLICING IS REQUIRE CONFORM TO AS/NZS 4671.

CONCRETE SUPPLY AND PLACE

- PLACE IMPERMEABLE MEMBRANE / LINER BETWEEN PM2/20 AND CONCRETE.
- CLEAN THE AREA PRIOR TO PLACING CONCRETE: REMOVE ANY PONDING WATER.
- COMPACTION: USE IMMERSION AND SCREED VIBRATORS ACCOMPANIED BY HAND METHODS AS APPROPRIATE TO REMOVE ENTRAPPED AIR AND TO FULLY COMPACT THE MIX.
- DURING PLACEMENT AND PRIOR TO SETTING, DO NOT EXPOSE CONCRETE TO RAIN.
- TEMPERATURE: CONCRETE SHALL NOT BE POURED OR PLACED IF TEMPERATURE IS BELOW 5°, OR ABOVE 35°.
- PROREFER CONCRETE SURFACES WHICH ARE TRUE AND EVEN, FREE FROM STONE POCKETS, DEPRESSIONS OR PROJECTIONS BEYOND THE SURFACE. ENSURE ALL ARISES ARE SHARP AND TRUE, AND MOLDINGS EVENLY MITRED OR ROUNDED.

CURING

- CURING: CURE CONTINUOUSLY FROM COMPLETION OF FINISHING FOR 7 DAYS, DURING WHICH THE AIR TEMPERATURE IN CONTACT WITH THE CONCRETE IS ABOVE 10°C. IF USING A CURING COMPOUND -PROREFER A UNIFORM CONTINUOUS FLEXIBLE COATING WITHOUT VISIBLE BREAKS OR PINHOLES, WHICH REMAINS UNBROKEN AT LEAST FOR THE REQUIRED CURING PERIOD AFTER APPLICATION.
- PROTECT FROM TRAFFIC FOR 48 HOURS MINIMUM.

JOINTS

- IN FOOTPATHS, MEDIAN TOPPINGS AND DRIVEWAYS, UNLESS OTHERWISE DOCUMENTED, PROREFER EXPANSION JOINTS 10 MM IN WIDTH WITH POLYETHYLENE FOAM FOR THE FULL DEPTH OF PAVEMENT, CONSTRUCTED AT INTERVALS NOT EXCEEDING 4.5m AND WHERE THE PAVEMENT ABUTS AGAINST GUTTERS, PITS AND STRUCTURES.
- TOOLED JOINTS AT 1.5m CENTRES AND 25mm DEEP.

NOTES

- COMPLY WITH DISABILITY DISCRIMINATION ACT PRINCIPLES & AS1428 TO THE MAXIMUM EXTENT. SUBMIT PROPOSED DETAILS FOR APPROVAL WHERE COMPLIANCE CANNOT READILY BE ACHIEVED.
- REQUIRED CROSSFALL IN FOOTPATH 1:40. DESIRABLE DRIVEWAY LONGITUDINAL GRADE OF 1:14, MAXIMUM PERMISSIBLE LONGITUDINAL GRADE 1:8
- WHERE NECESSARY OR DIRECTED TO ENSURE SMOOTH TRANSITION TO EXISTING WORK, REPLACE SECTIONS OF FOOTPATH TO MATCH EXISTING.
- DURING POURING HOT DIP GALVANISED SECTIONS OF 100MM SQUARE SHALL BE CAST INTO KERB TO ALLOW FOR STORMWATER PIPES, ALLOWING MINIMUM 1 PER PROPERTY.

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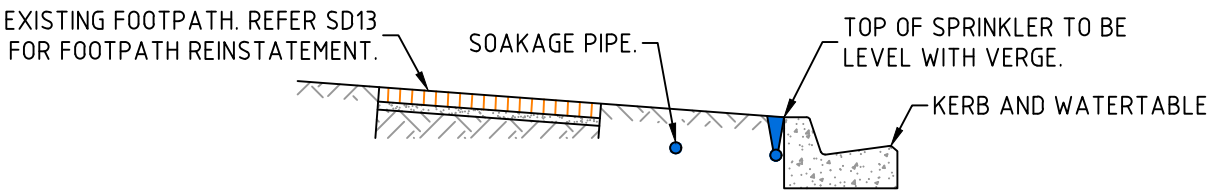

SECTION A-A

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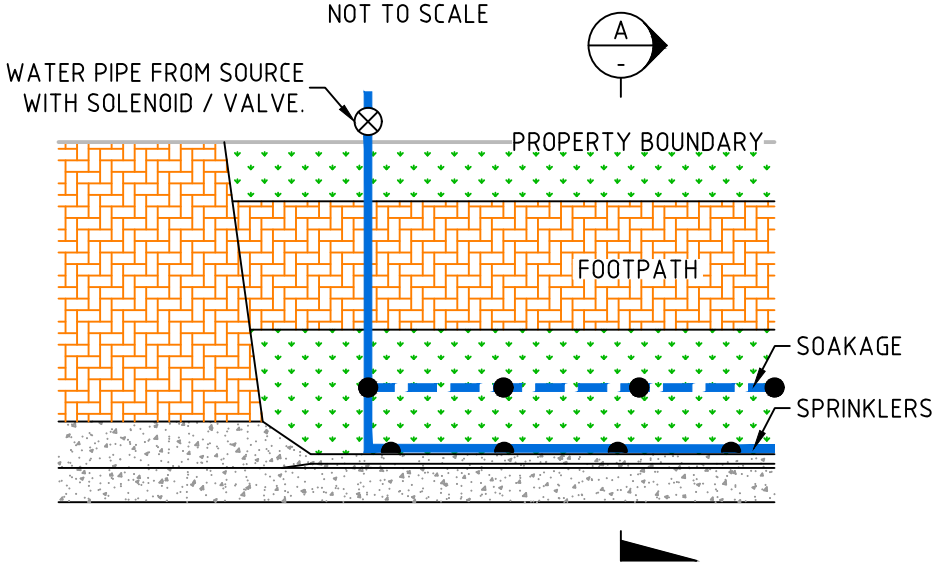

VERGE IRRIGATION - SPRINKLERS

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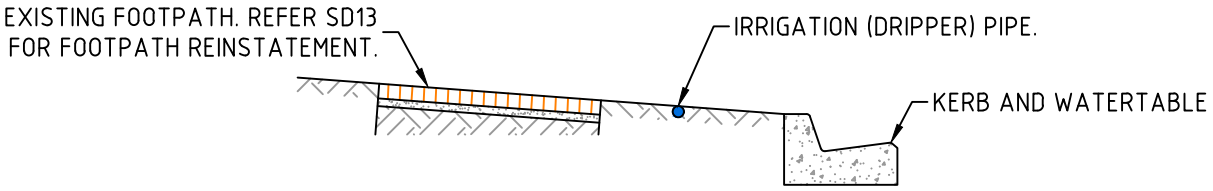

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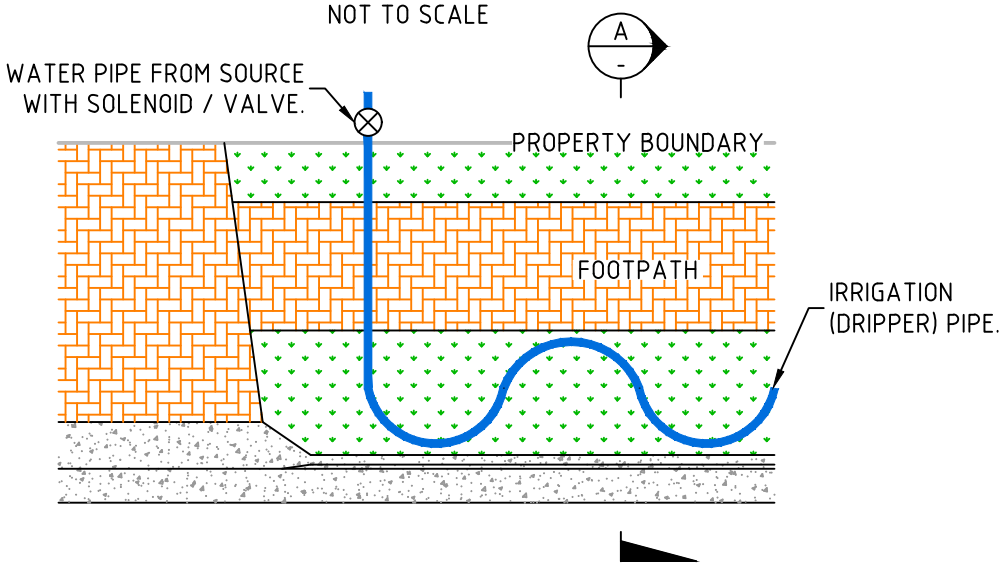

VERGE IRRIGATION - GARDEN BEDS (DRIPPERS)

NOT TO SCALE

NOTES:

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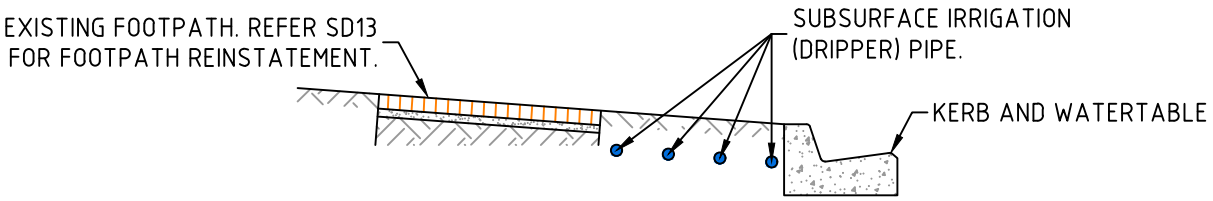

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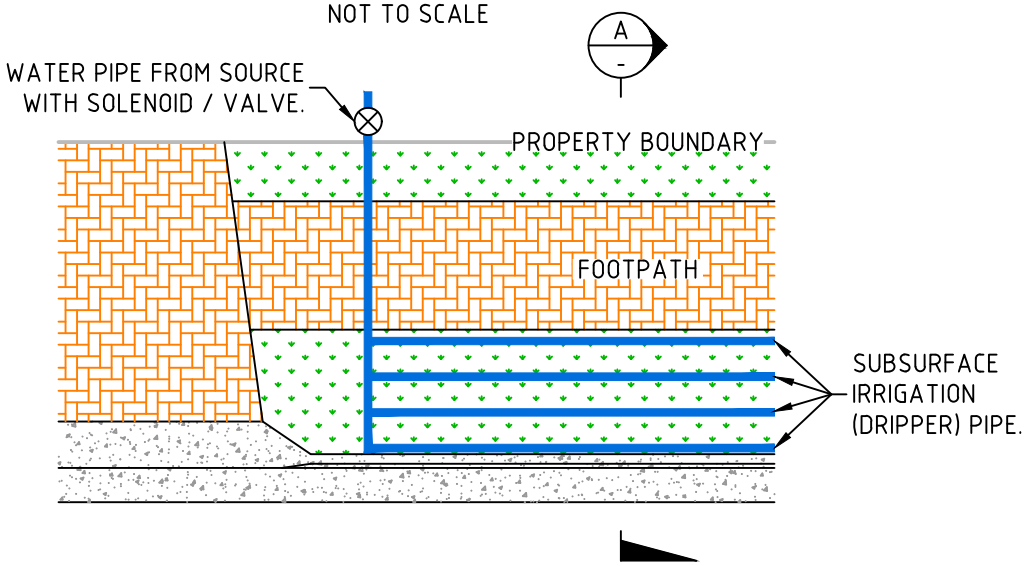

VERGE IRRIGATION - LAWN (DRIPPERS)

NOT TO SCALE

NOTES:

POPUP SPINKLERS

THE DESIGN OF THE IRRIGATION SYSTEMS PIPE WORK NEEDS TO BE SUBMITTED WITH THE APPLICATION FORM AND SHALL BE DESIGNED TO MINIMISE OVER SPRAY ONTO FOOTPATHS AND ROADWAYS. ALL PIPES AND SPRINKLERS SHALL BE INSTALLED BELOW GROUND LEVEL. WHEN INSTALLING PIPES UNDER COUNCIL CONSTRUCTED PATHS THE PIPES SHALL BE CLASS 12 PVC OR HIGH DENSITY POLY EQUIVALENT. ALL PIPES TO BE INSTALLED AT LEAST 150MM BELOW THE BASE OF THE PAVERS. ALL CONTROL VALVES/WIRING FOR AUTOMATIC SYSTEMS ARE TO BE LOCATED WITHIN PRIVATE PROPERTY.

DRIPPER SYSTEMS

WHEN INSTALLING PIPES UNDER COUNCIL CONSTRUCTED PATHS THE PIPES SHALL BE CLASS 12 PVC OR HIGH DENSITY POLY EQUIVALENT. ALL PIPES TO BE INSTALLED AT LEAST 150MM BELOW BASE OF PAVERS. ALL DRIPPER PIPES SHALL BE INSTALLED BELOW GROUND LEVEL OR BELOW A LAYER OF MULCH (TO REDUCE TRIP HAZARDS).

REINSTATEMENTS

PIPE TRENCHES SHALL BE REINSTATED, COMPACTED AND THEN COMPLETED WITH THE SAME MATERIAL ON THE SURFACE THAT WAS THERE PRIOR TO THE WORKS STARTING. FOOTPATH SURFACE SHALL BE REINSTATED WITH THE SAME CONSTRUCTED MATERIAL, QUALITY AND FINISH. REFER SD 13 FOR FOOTPATH REINSTATEMENT DETAIL.

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