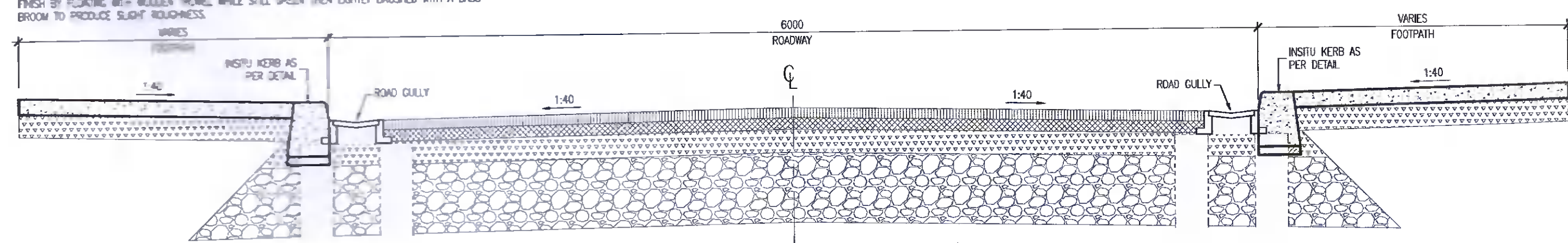


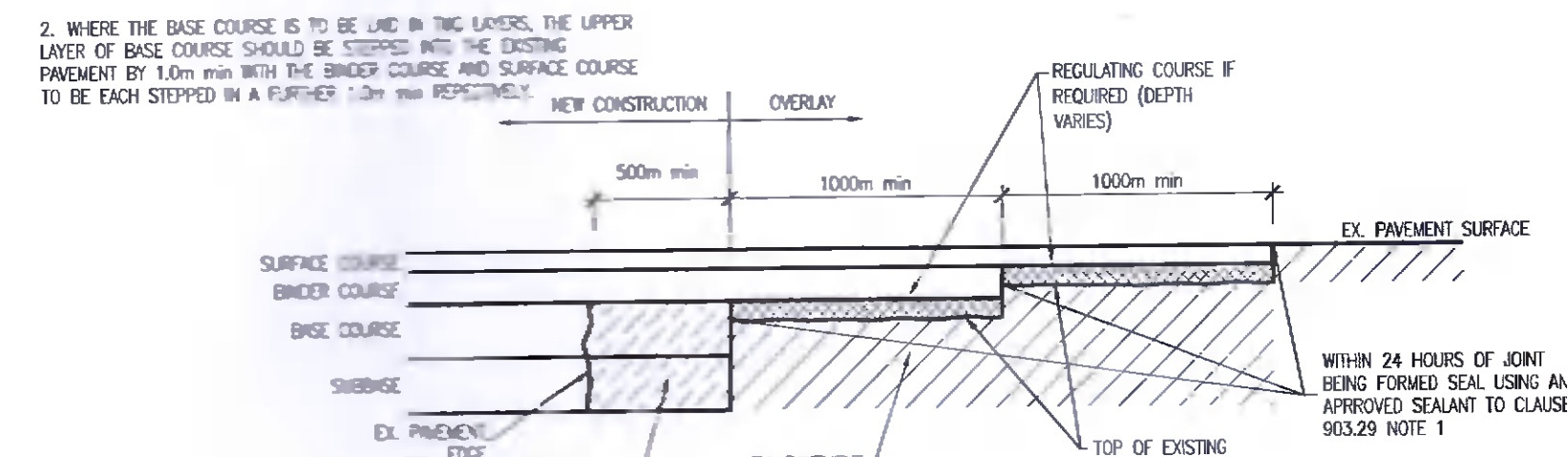
**CONCRETE FOOTPATH**  
 100mm CONCRETE PAVEMENT C40 AIR ENTRAINED OR C50 NO AIR ENTRAINED (EXPOSURE CLASS X4) TO NRA CL 1102 OR 150mm UNBOUND GRANULAR SUB-BASE TYPE B TO CLAUSE 804 AND CLAUSE 808 NOTE 1 (MIN CSR 30%) ON JOINTS TO BE FORMED WITH TWO LAYERS OF BITUMINOUS FELT FOR FULL SLAB DEPTH AT 3m CENTRES (JOINTS TO COMBINE WITH JOINTS IN THE KERB AND POSITIONED AT CORNERS ETC LIABLE TO CRACKING). FINISH BY FLOATING WITH WOODEN TRIMMER WHILE STILL GREEN THEN LIGHTLY BRUSHED WITH A BRASS BRUSH TO PRODUCE SLIGHT ROUGHNESS.

**ROAD CONSTRUCTION**  
 65mm OF DENSE ASPHALT CONCRETE SURFACE COURSE: AC 20 DENSE SURF 70/100 REC TO CLAUSE 909 (NRA) ON 75mm OF DENSE BITUMEN MACADAM BINDER COURSE: AC 20 DENSE BM 40/60 (20mm AGGREGATE) TO CLAUSE 906 ON 150mm OF GRANULAR SUB-BASE TO CLAUSE 804 (TYPE B) WITH BLINDED SURFACE ON 450mm CLASS B2 CAPPING STONE.



**TYPICAL SECTION THROUGH ROAD/RAMP**  
SCALE 1:25

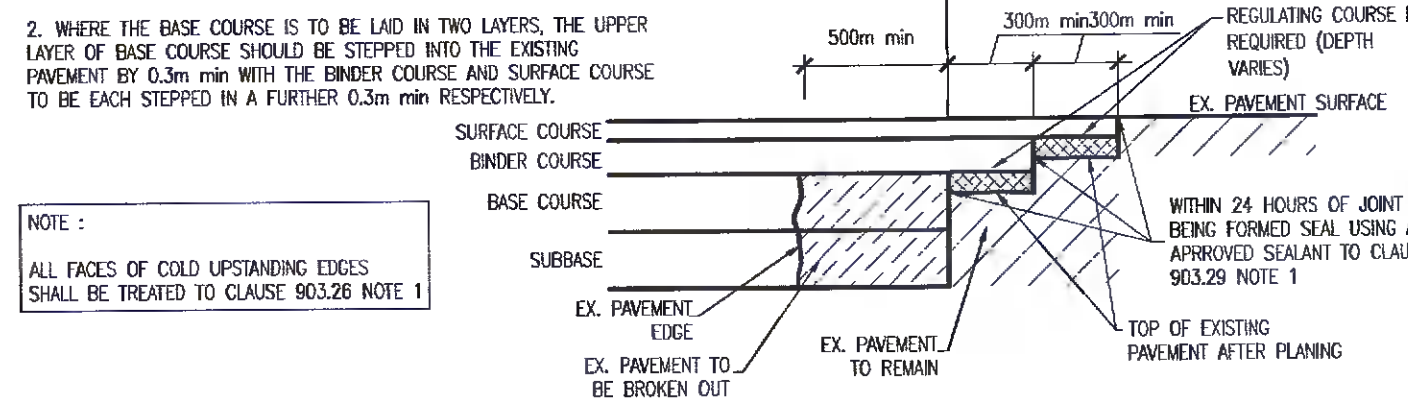
**NOTES:**  
 1. EDGES OF EXISTING CARRIAGEWAY TO BE CUT BACK BY 0.5m WITH A ROTARY SAW TO FORM A VERTICAL FACE AND PRIMED IN ACCORDANCE WITH CLAUSE 920 (NOTE 1).  
 2. WHERE THE BASE COURSE IS TO BE LAID IN TWO LAYERS, THE UPPER LAYER OF BASE COURSE SHOULD BE STEPPED INTO THE EXISTING PAVEMENT BY 1.0m WITH THE BINDER COURSE AND SURFACE COURSE TO BE EACH STEPPED IN A FURTHER 1.0m RESPECTIVELY.



**TRANSVERSE JOINT**  
SCALE 1:25

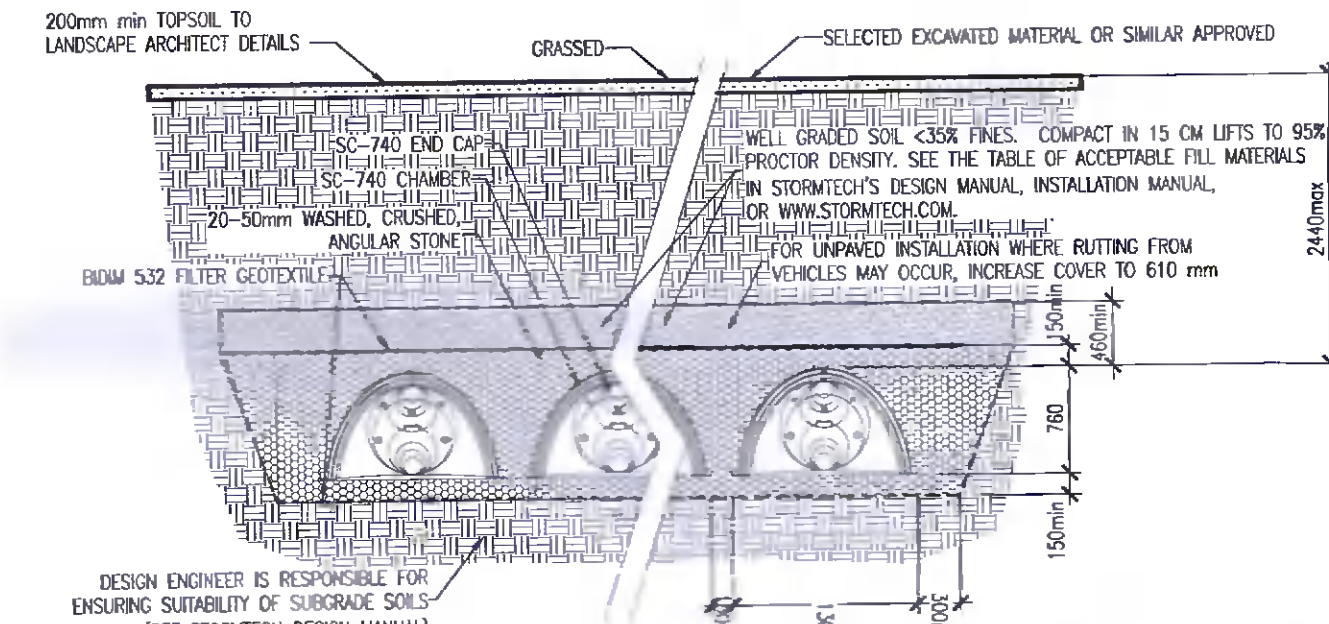
**NOTE:**  
 ALL FACES OF COLD UPSTANDING EDGES SHALL BE TREATED TO CLAUSE 903.26 NOTE 1.

**NOTES:**  
 1. EDGES OF EXISTING CARRIAGEWAY TO BE CUT BACK BY 0.5m WITH A ROTARY SAW TO FORM A VERTICAL FACE AND PRIMED IN ACCORDANCE WITH CLAUSE 920 (NOTE 1).  
 2. WHERE THE BASE COURSE IS TO BE LAID IN TWO LAYERS, THE UPPER LAYER OF BASE COURSE SHOULD BE STEPPED INTO THE EXISTING PAVEMENT BY 0.3m WITH THE BINDER COURSE AND SURFACE COURSE TO BE EACH STEPPED IN A FURTHER 0.3m RESPECTIVELY.

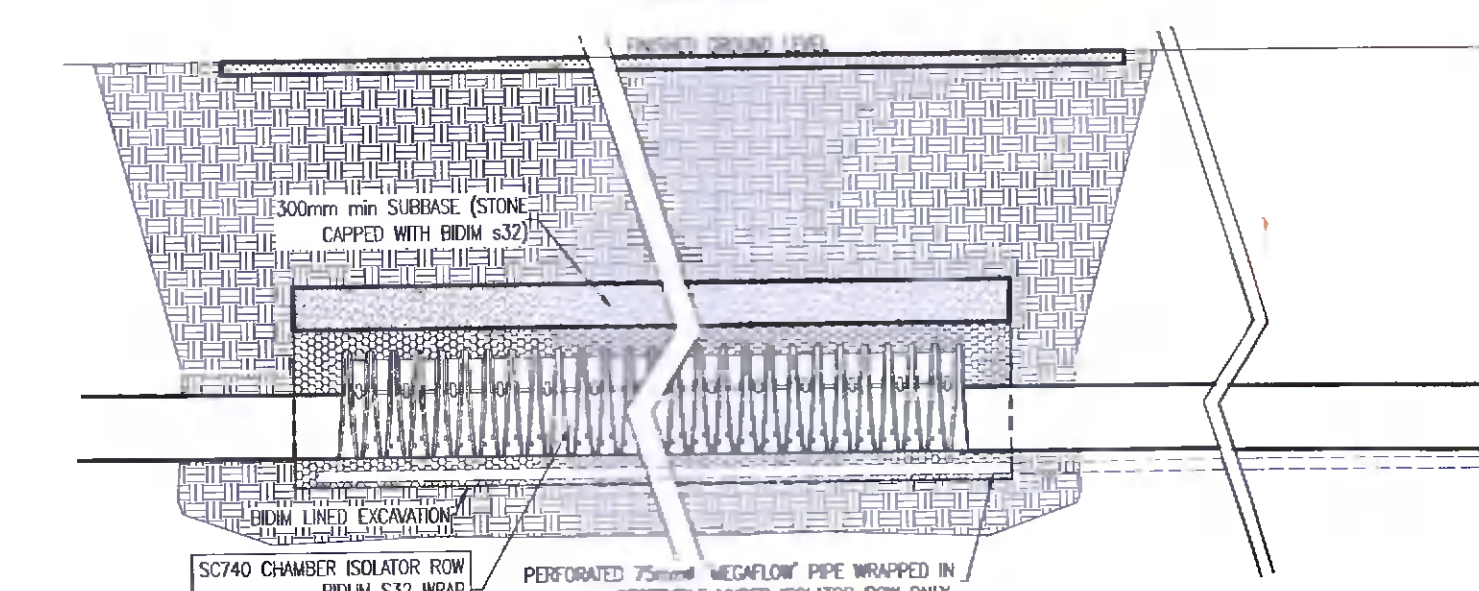


**LONGITUDINAL JOINT DETAIL**  
SCALE 1:25

**NOTE:**  
 ALL FACES OF COLD UPSTANDING EDGES SHALL BE TREATED TO CLAUSE 903.26 NOTE 1.

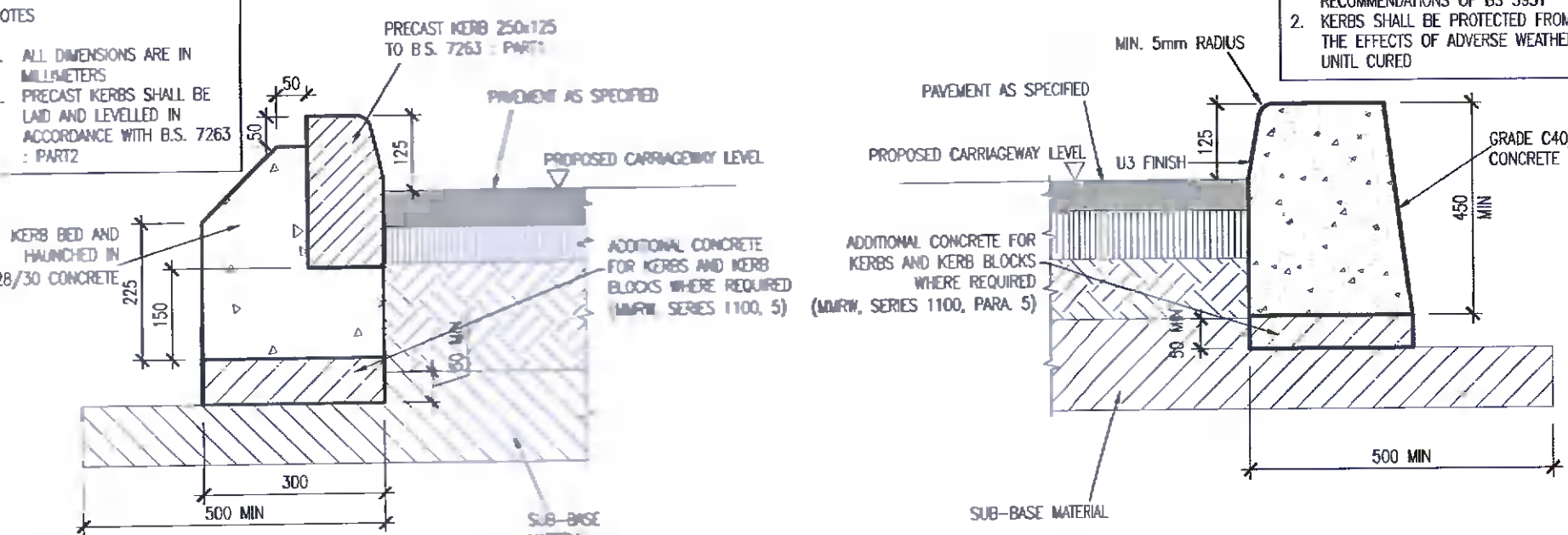


**TYPICAL CROSS SECTION THROUGH STORMTECH SC-740 CHAMBER SYSTEM**  
SCALE 1:50



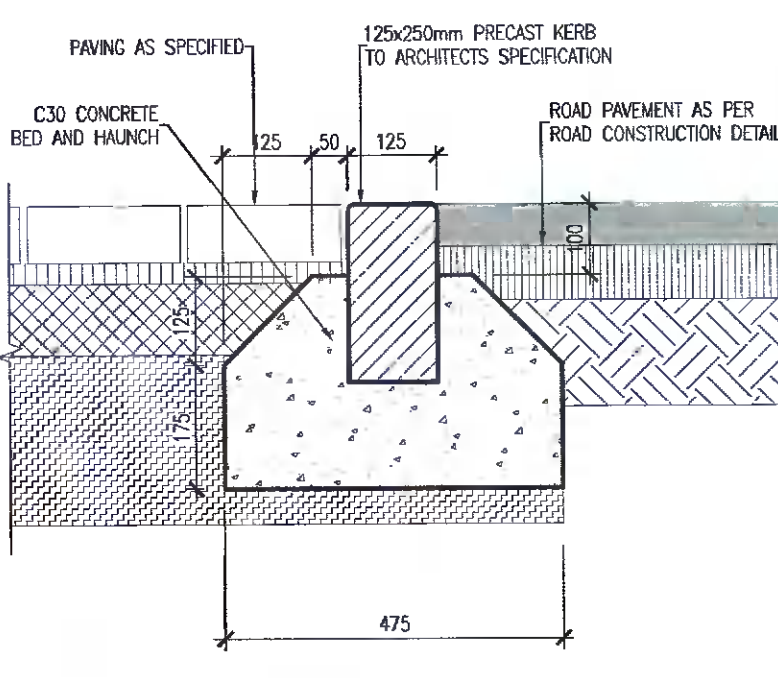
**SCHEMATIC STORMTECH SC-740 CHAMBER SYSTEM LONGITUDINAL SECTION**  
SCALE 1:50

**NOTES:**  
 1. ALL DIMENSIONS ARE IN MILLIMETERS.  
 2. PRECAST KERBS SHALL BE LAID AND LEVELLED IN ACCORDANCE WITH BS 7263 - PART 2.



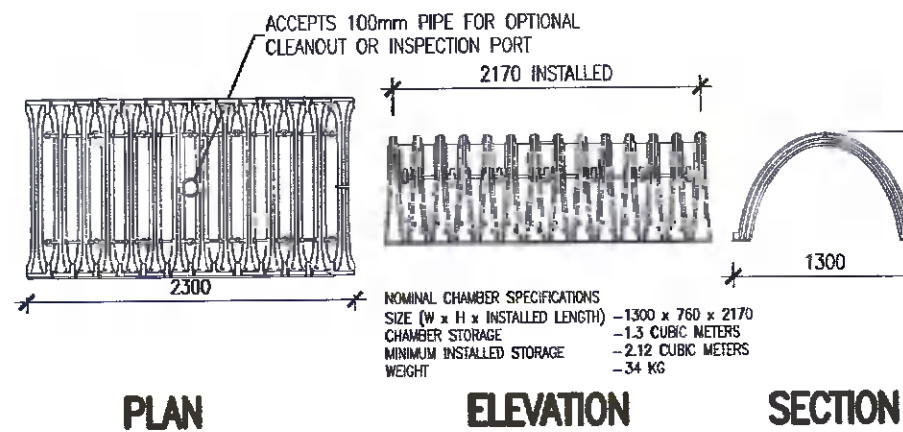
**PRECAST KERB DETAIL**  
SCALE 1:10

**INSITU CONCRETE KERB DETAIL**  
SCALE 1:10

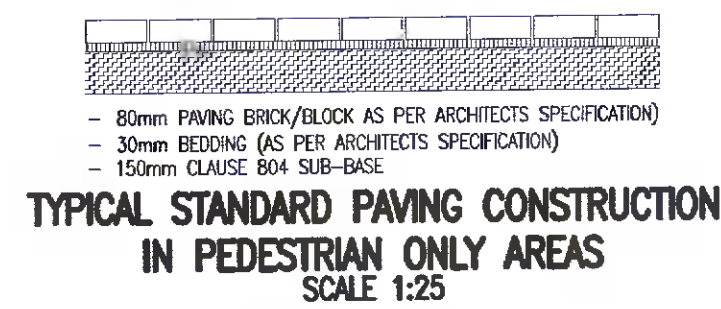


**EDGE KERB DETAIL (DBM TO PAVING BLOCK)**  
SCALE 1:10

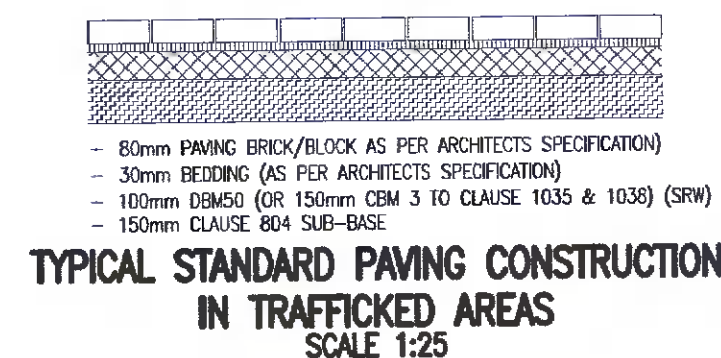
- LIST OF IRISH WATER WASTEWATER STANDARD DETAILS BROUGHT INTO THE CONTRACT**
- STD-WW-02 TYPICAL LAYOUT FOR SEWER WITHIN NEW DEVELOPMENT
  - STD-WW-03 TYPICAL TRENCH/PIPE CONNECTION
  - STD-WW-04 TYPICAL TRENCH/PIPE CONNECTION
  - STD-WW-05 TYPICAL TRENCH LAYOUT INCLUDING SURROUNDING DISTANCES
  - STD-WW-06 RESTRICTIONS ON TRENCH/SURROUNDING DISTANCES TO SERVICES
  - STD-WW-07 TRENCH MANHOLE & BEARING
  - STD-WW-08 CONCRETE BED, HAUNCH & SURROUNDING TO WASTEWATER PIPES
  - STD-WW-09 ELECTRODE MANHOLE (450mm)
  - STD-WW-10 PRE-CAST CONCRETE MANHOLE
  - STD-WW-11 IN-SITU CONCRETE MANHOLE
  - STD-WW-12 BACKSTOP MANHOLE
  - STD-WW-13 PRIVATE SEW. INSPECTION CHAMBER
  - STD-WW-14 BURST BLOCKS FOR RISING MAINS
  - STD-WW-15 SCOUR VALVE CHAMBER (FULL RISING MAIN <200mm)
  - STD-WW-16 SLURVE VALVE DETAILS FOR RISING MAINS (D.I. PIPE <200mm) (SHEET 1 OF 2)
  - STD-WW-17 SLURVE VALVE DETAILS FOR RISING MAIN POLYETHYLENE (P.E.) PIPE <200mm> (SHEET 2 OF 2)
  - STD-WW-18 AIR VALVE CHAMBER (FULL RISING MAIN <200mm)
  - STD-WW-19 DUCT CHAMBER
  - STD-WW-20 EMERGENCY OVERTFLOW STRUCTURE
  - STD-WW-21 TYPICAL DOWNSTREAM CROSSING FOR GRUNTY MAIN (SHEET 1 OF 2)
  - STD-WW-22 TYPICAL DOWNSTREAM CROSSING FOR RISING MAIN (SHEET 2 OF 2)
  - STD-WW-23 TYPICAL BRIDGE CROSSING FOR RISING MAIN (SHEET 1 OF 2)
  - STD-WW-24 TYPICAL BRIDGE CROSSING FOR RISING MAIN (SHEET 2 OF 2)
  - STD-WW-25 SECURITY GATE & FENCING
  - STD-WW-26 INDICATIVE PUMPING STATION LAYOUT
  - STD-WW-27 FLOW METER CHAMBER (FULL RISING MAIN <200mm)
  - STD-WW-28 INDICATIVE SUBMERSIBLE PUMPING STATION
  - STD-WW-29 INDICATIVE PRE-CAST CONCRETE SUBMERSIBLE PUMPING STATION
  - STD-WW-30 ROSS TYPE 1 PUMPING STATION & NET BOOK (SHEET 1 OF 2)
  - STD-WW-31 ROSS TYPE 2 & 3 PUMPING STATION & NET BOOK (SHEET 2 OF 2)
  - STD-WW-32 HORIZONTAL AREA PUMPING STATION (PERMEABLE & IMPERMEABLE)
  - STD-WW-33 LAMP BOLLARD & LAMP STANDARD
  - STD-WW-34 VENT STACK



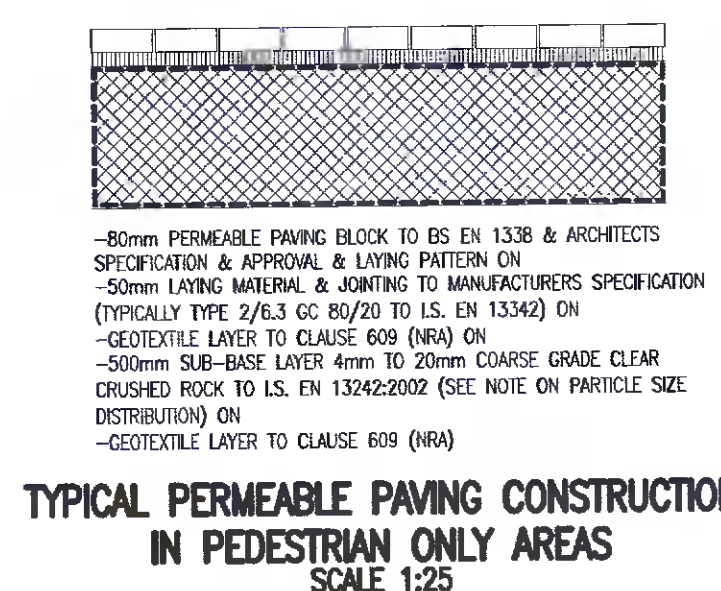
**PLAN ELEVATION SECTION**  
**STORMTECH SC-740 CHAMBER SYSTEM**  
SCALE 1:50



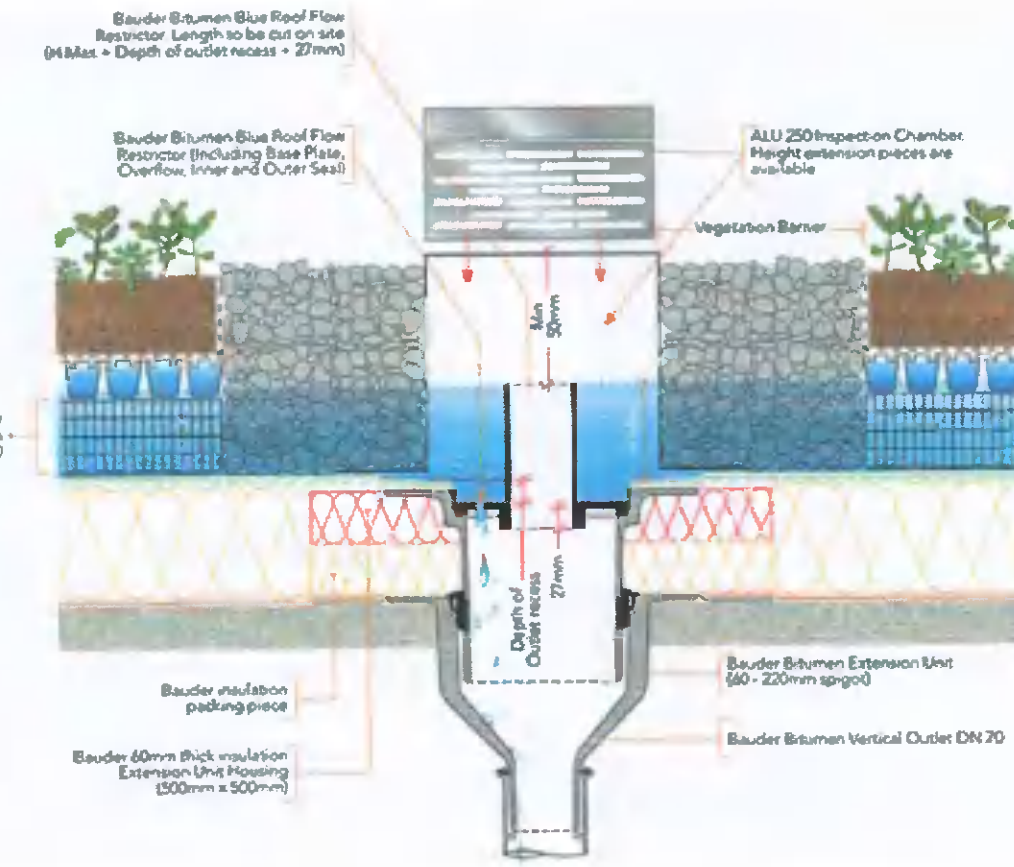
**TYPICAL STANDARD PAVING CONSTRUCTION IN PEDESTRIAN ONLY AREAS**  
SCALE 1:25



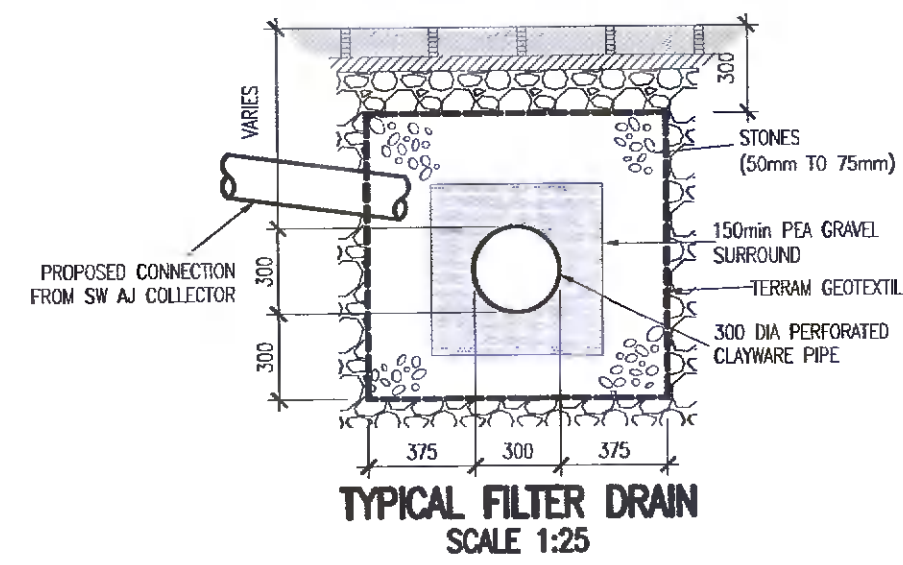
**TYPICAL STANDARD PAVING CONSTRUCTION IN TRAFFICKED AREAS**  
SCALE 1:25



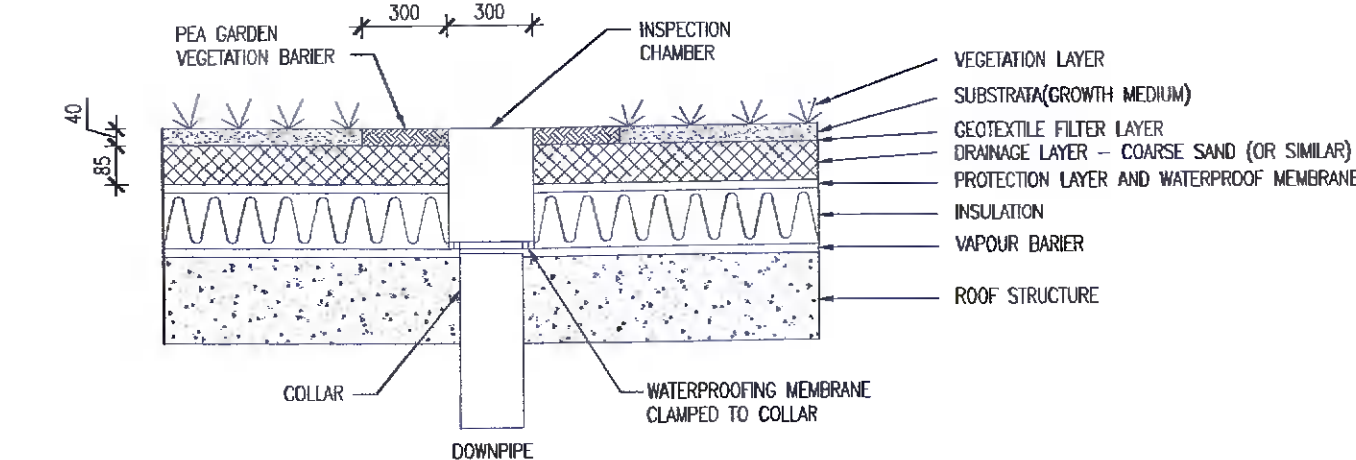
**TYPICAL PERMEABLE PAVING CONSTRUCTION IN PEDESTRIAN ONLY AREAS**  
SCALE 1:25



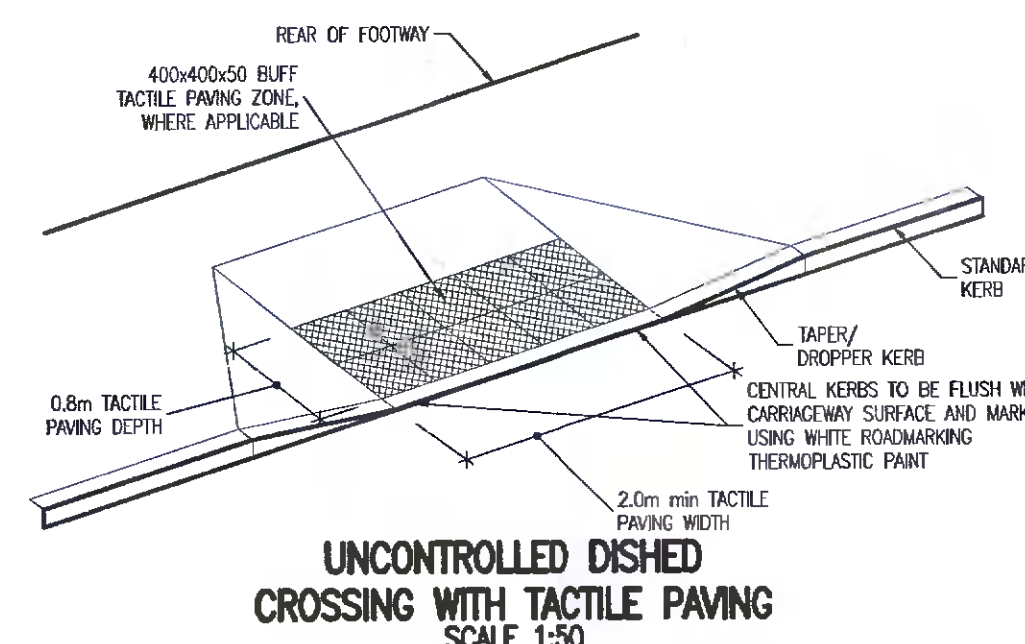
**PROPOSED BLUE ROOF**



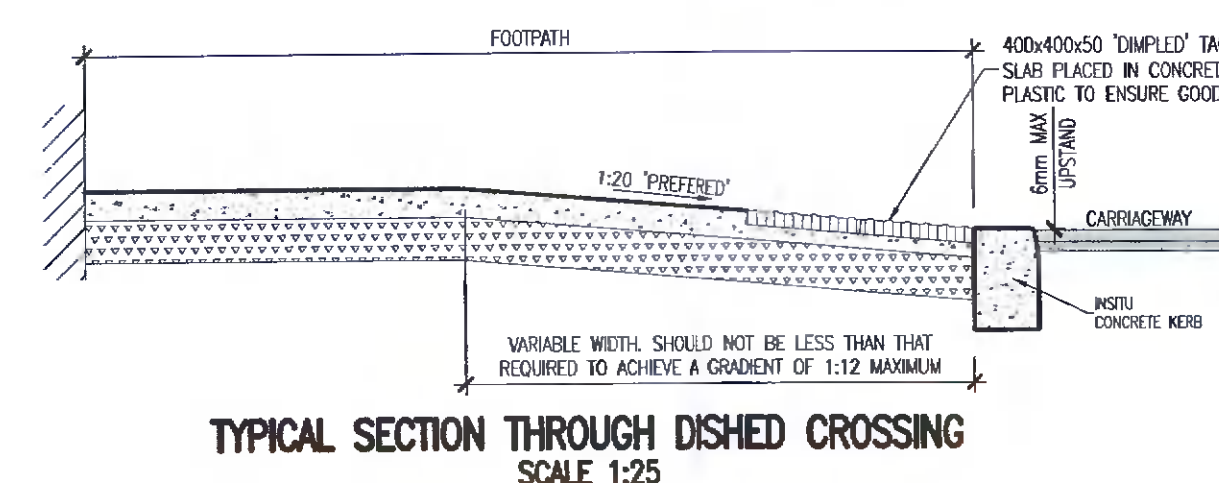
**TYPICAL FILTER DRAIN**  
SCALE 1:25



**TYPICAL SECTION THROUGH GREEN ROOF**  
SCALE 1:25



**UNCONTROLLED DISHED CROSSING WITH TACTILE PAVING**  
SCALE 1:50



**TYPICAL SECTION THROUGH DISHED CROSSING**  
SCALE 1:25

**NOT FOR CONSTRUCTION**

**NOTES**

- POLYMER MODIFIED STONE MASTIC ASPHALT SURFACE COURSE SHALL COMPLY WITH THE REQUIREMENTS OF CLAUSE 943 OF THE NRA'S SPECIFICATION FOR ROAD WORKS AND SHALL SATISFY THE REQUIREMENTS OF TABLE 9/2. IT SHALL BE LAID & COMPACTED IN ACCORDANCE WITH CLAUSE 901 & CLAUSE 702.
- DENSE BITUMEN MACADAM BINDER COURSE SHALL COMPLY WITH THE REQUIREMENTS OF CLAUSE 906 OF THE NRA'S SPECIFICATION FOR ROAD WORKS AND SHALL SATISFY THE REQUIREMENTS OF TABLE 9/1. IT SHALL BE LAID & COMPACTED IN ACCORDANCE WITH CLAUSE 901 & CLAUSE 702.
- SUB-BASE MATERIAL SHALL COMPLY WITH CLAUSE 808 GRANULAR MATERIAL TYPE B OF NRA'S SPECIFICATION FOR ROAD WORKS (SRW) & SHALL SATISFY THE REQUIREMENTS OF TABLE 8/4 & 8/2.
- SUB FORMATION & CAPPING MATERIAL SHALL COMPLY WITH CLAUSE 613 OF THE NRA'S SPECIFICATION FOR ROAD WORKS (SRW) & SHALL SATISFY THE REQUIREMENTS OF TABLE 6/1 & 6/2.
- STONE BLINDING WITH 2-6.3mm AGGREGATE SHALL MEET THE FOLLOWING GRADINGS, IN ACCORDANCE WITH IS EN 12542:  

BS SIEVE SIZE (mm) % BY MASS PASSING	
14	100
10	98-100
6.3	80-99
2.0	0-20
1.0	0-5
- CRUSHED STONE WITH 4-20mm AGGREGATE SHALL MEET THE FOLLOWING GRADINGS, IN ACCORDANCE WITH IS EN 12542:  

BS SIEVE SIZE (mm) % BY MASS PASSING	
40	100
31.5	98-100
20	90-99
10	25-70
4	0-15
5	0-5
- ANY ROADS PROPOSED TO BE USED FOR CONSTRUCTION TRAFFIC ARE TO HAVE INCREASED DEPTH OF SUB-BASE TO MEET THE REQUIREMENTS OF THE LOCAL AUTHORITY.
- ALL WORKS SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY.
- ALL GEORIDS TO BE LAID IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- ALL FILLING BELOW CAPPING LAYER (IE SUB-FORMATION) TO BE GRANULAR FILL MATERIAL CLASS 1G COURSE GRANULAR MATERIAL IN ACCORDANCE WITH THE SPECIFICATION FOR ROADWORKS, NRA
- ALL ROAD GULLIES IN ROADWAYS TO BE NON-LOCKABLE

Rev	Date	Description	By	CHK
P1	20/04/22	ISSUED FOR PLANNING	SM	SJ
P	02/09/21	ISSUED FOR PLANNING	SM	SJ

**PLANNING**

**gdcl**  
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**PROJECT**  
Silver Granite, Palmerstown

**CLIENT**  
Hollyville Investments Ltd.

**DRAWING TITLE**  
Typical Construction Details Sheet 1

dra:	SM	date:	APR'21	scale:	As Shown
drawing size:	A1	chk:	SJ	app:	GD
job no:	P-2012	dig. no.:	P-2012-C-106	rev.:	P1