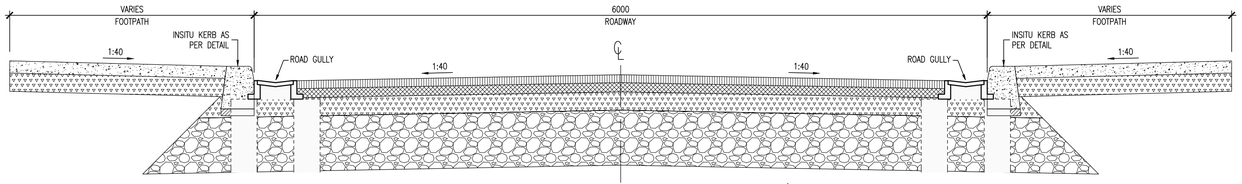
CONCRETE FOOTPATH

100mm CONCRETE PAVEMENT C40 AIR ENTRAINED OR C50 NO AIR ENTRAINED (EXPOSURE CLASS XF4) TO NRA CL 1106 ON
150mm UNBOUND GRANULAR SUB-BASE TYPE B TO CLAUSE 804 AND CLAUSE 808 NOTE 1 [MIN CBR 30%] ON
JOINTS TO BE FORMED WITH TWO LAYERS OF BITUMINOUS FELT FOR FULL SLAB DEPTH AT 3m CENTRES (JOINTS TO COINCIDE WITH JOINTS IN THE KERB AND POSITIONED AT CORNERS ETC LABLE TO CRACKING).
FINISH BY FLOATING WITH WOODEN TROWEL WHILE STILL GREEN THEN LIGHTLY BRUSHED WITH A BASS BROOM TO PRODUCE SLIGHT ROUGHNESS.

ROAD CONSTRUCTION

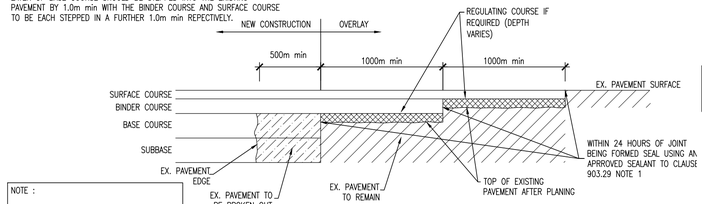
65mm OF DENSE ASPHALT CONCRETE SURFACE COURSE: AC 6 DENSE SURF 70/100 REC TO CLAUSE 909 (NRA) ON
75mm OF DENSE BITUMEN MACADAM BINDER COURSE: AC 20 DENSE BIN 40/60 (20mm AGGREGATE) TO CLAUSE 906 ON
150mm OF GRANULAR SUB-BASE TO CLAUSE 804 (TYPE B) WITH BLINDED SURFACE ON
450mm CLASS 6F2 CAPPING STONE



TYPICAL SECTION THROUGH ACCESS 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 min WITH THE BINDER COURSE AND SURFACE COURSE TO BE EACH STEPPED IN A FURTHER 1.0m min REPECTIVELY.



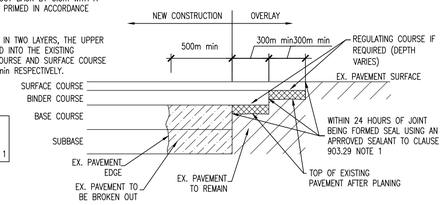
NOTE :
ALL FACES OF COLD UPSTANDING EDGES SHALL BE TREATED TO CLAUSE 903.26 NOTE 1

TRANSVERSE JOINT
SCALE 1:25

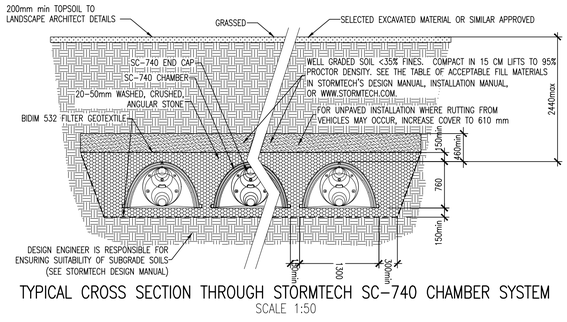
NOTES :
1. EDGES OF EXISTING CARRIAGEWAY TO BE CUT BACK BY 0.5m WITH A ROTARY SAW TO FORM A VERTICAL FACE AND PRIMED IN ACCORDANCE WITH CLAUSE 920 (NOTE 1).

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 0.3m min WITH THE BINDER COURSE AND SURFACE COURSE TO BE EACH STEPPED IN A FURTHER 0.3m min RESPECTIVELY.

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



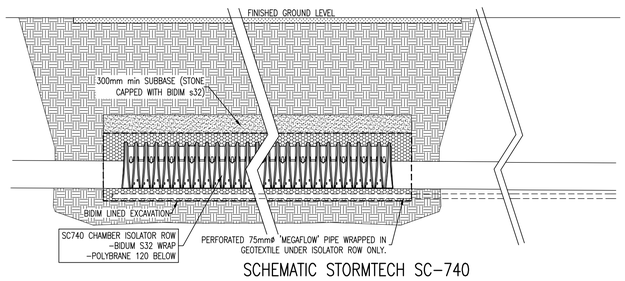
LONGITUDINAL JOINT DETAIL
SCALE 1:25



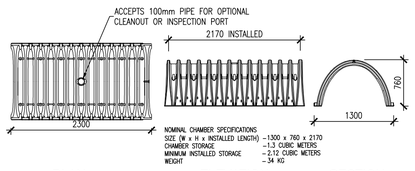
TYPICAL CROSS SECTION THROUGH STORMTECH SC-740 CHAMBER SYSTEM
SCALE 1:50

LIST OF IRISH WATER WASTEWATER STANDARD DETAILS BROUGHT INTO THE CONTRACT

STD-WW-02 TYPICAL LAYOUT FOR SEWER WITHIN NEW DEVELOPMENT
STD-WW-03 DRAIN AND SERVICE CONNECTION PIPEWORK
STD-WW-04 TYPICAL SEWER/SERVICE PIPE CONNECTION
STD-WW-05 TYPICAL SERVICE LAYOUT INDICATING SEPARATION DISTANCES
STD-WW-06 RESTRICTIONS ON TREES/SHRUBS PLANTING ADJACENT TO SEWERS
STD-WW-07 TRENCH BACKFILL & BEDDING
STD-WW-08 CONCRETE BED, HAUNCH & SURROUND TO WASTEWATER PIPES
STD-WW-09 BLOCKWORK MANHOLE (<450mm#)
STD-WW-10 PRE-CAST CONCRETE MANHOLE
STD-WW-11 IN-SITU CONCRETE MANHOLE
STD-WW-12 BACKDROP MANHOLES
STD-WW-13 PRIVATE SIDE INSPECTION CHAMBER
STD-WW-14 THRUST BLOCKS FOR RISING MAINS
STD-WW-15 SCOUR VALVE CHAMBER (FOUL RISING MAIN <200mm#)
STD-WW-16 SLUICE VALVE DETAILS FOR RISING MAINS DUCTILE IRON (D.I) PIPE (<200mm#)(SHEET 1 OF 2)
STD-WW-17 SLUICE VALVE DETAILS FOR RISING MAIN POLYETHYLENE (P.E) PIPE (<200mm#)(SHEET 2 OF 2)
STD-WW-18 AIR VALVE CHAMBER (FOUL RISING MAIN <200mm#)
STD-WW-19 DUCT CHAMBER
STD-WW-20 EMERGENCY OVERFLOW STRUCTURE
STD-WW-21 TYPICAL DITCH/STREAM CROSSING FOR GRAVITY MAIN (SHEET 1 OF 2)
STD-WW-22 TYPICAL DITCH/STREAM 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 (FOUL RISING MAIN <200mm#)
STD-WW-28 INDICATIVE SUBMERSIBLE PUMPING STATION
STD-WW-28A INDICATIVE PRE-CAST CONCRETE SUBMERSIBLE PUMPING STATION
STD-WW-29 RISING MAIN DISCHARGE MANHOLE
STD-WW-30 KIOSK TYPE 1 PUMPING STATION & WET KIOSK (SHEET 1 OF 2)
STD-WW-31 KIOSK TYPE 2 + 3 PUMPING STATION & WET KIOSK (SHEET 2 OF 2)
STD-WW-32 HARDSTANDING AREA PUMPING STATION (PERMEABLE & IMPERMEABLE)
STD-WW-33 LAMP BOLLARD & LAMP STANDARD
STD-WW-34 VENT STACK

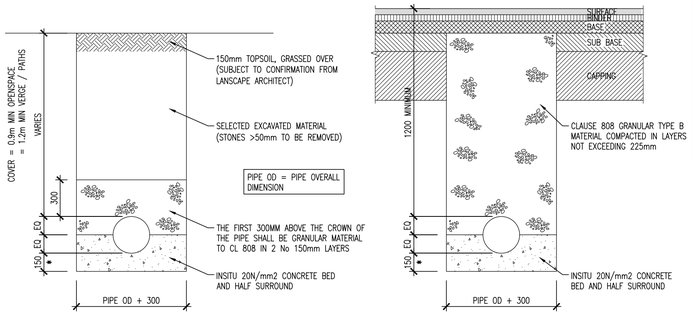


SCHEMATIC STORMTECH SC-740 CHAMBER SYSTEM LONGITUDINAL SECTION
SCALE 1:50



PLAN ELEVATION SECTION

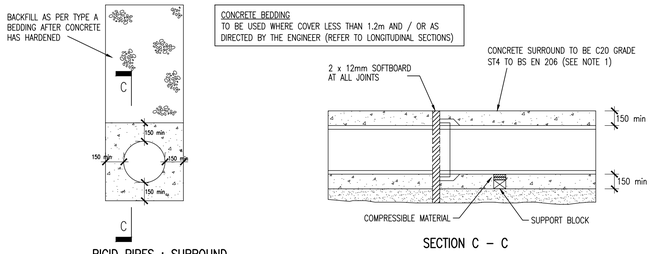
STORMTECH SC-740 CHAMBER SYSTEM
SCALE 1:50



A – BEDDING DETAIL ACROSS OPENSPACE (SIMILAR)

B – BEDDING DETAIL IN ROADWAYS/VERGES/PATHS

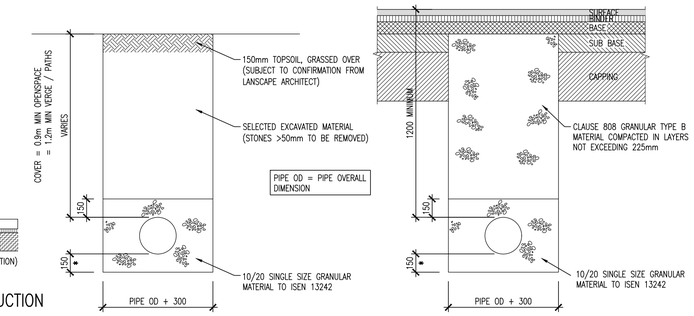
TYPE A
(COVER> 1.2 METRES TO CROWN, RIGID PIPES)
SCALE 1:25



RIGID PIPES : SURROUND

SECTION C – C

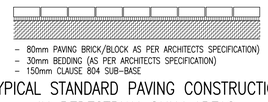
TYPE Z
CONCRETE BEDDING/SURROUND (COVER 750mm – 1200mm)
SCALE 1:25



A – BEDDING DETAIL ACROSS OPENSPACE (SIMILAR)

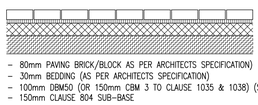
B – BEDDING DETAIL IN ROADWAYS/VERGES/PATHS

TYPE S
(COVER> 1.2 METRES TO CROWN, FLEXIBLE PIPES)
SCALE 1:25



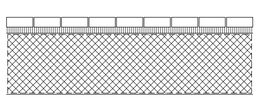
– 80mm PAVING BRICK/BLOCK AS PER ARCHITECTS SPECIFICATION)
– 30mm BEDDING (AS PER ARCHITECTS SPECIFICATION)
– 150mm CLAUSE 804 SUB-BASE

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



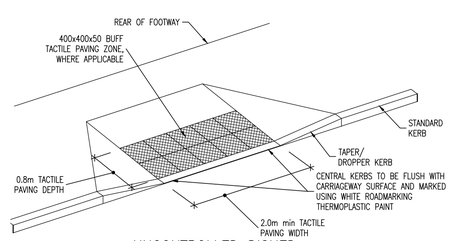
– 80mm PAVING BRICK/BLOCK AS PER ARCHITECTS SPECIFICATION)
– 30mm BEDDING (AS PER ARCHITECTS SPECIFICATION)
– 100mm DBM50 (OR 150mm CBM 3 TO CLAUSE 1035 & 1038) (SRW)
– 150mm CLAUSE 804 SUB-BASE

TYPICAL STANDARD PAVING CONSTRUCTION IN TRAFFICKED AREAS
SCALE 1:25

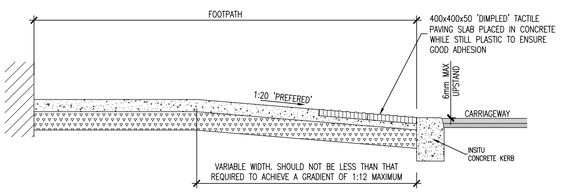


–80mm PERMEABLE PAVING BLOCK TO BS EN 1338 & ARCHITECTS SPECIFICATION & APPROVAL & LAYING PATTERN ON
–50mm LAYING MATERIAL & JOINTING TO MANUFACTURERS SPECIFICATION (TYPICALLY TYPE 2/6.3 GC 80/20 TO I.S. EN 13342) ON
–GEOTEXTILE LAYER TO CLAUSE 609 (NRA) ON
–500mm SUB-BASE LAYER 4mm TO 20mm COARSE GRADE CLEAR CRUSHED ROCK TO I.S. EN 13242:2002 (SEE NOTE ON PARTICLE SIZE DISTRIBUTION) ON
–GEOTEXTILE LAYER TO CLAUSE 609 (NRA)

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

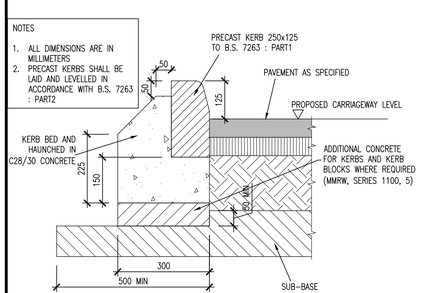


UNCONTROLLED DISHED CROSSING WITH TACTILE PAVING
SCALE 1:50



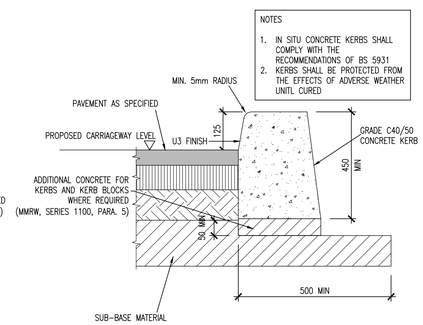
TYPICAL SECTION THROUGH DISHED CROSSING
SCALE 1:25

NOTES
1. ALL DIMENSIONS ARE IN MILLIMETERS
2. PRECAST KERBS SHALL BE LAID AND LEVELLED IN ACCORDANCE WITH B.S. 7263 : PART2

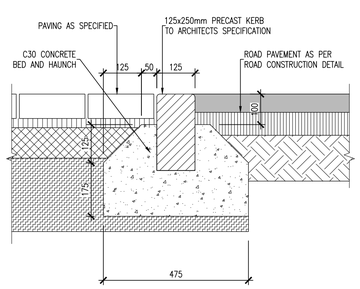


PRECAST KERB DETAIL
SCALE 1:10

NOTES
1. IN SITU CONCRETE KERBS SHALL COMPLY WITH THE RECOMMENDATIONS OF BS 5931
2. KERBS SHALL BE PROTECTED FROM THE EFFECTS OF ADVERSE WEATHER UNITIL CURED



INSITU CONCRETE KERB DETAIL
SCALE 1:10



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

NOTES

1. POLYMOR MODIFIED STONE MASTIC ASPHALT SURFACE COURSE SHALL COMPLY WITH THE REQUIREMENTS OF CLAUSE 942 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
2. DENSE BITUMEN MACADAM BINDER COURSE SHALL COMPLY WITH THE REQUIREMENTS OF CLAUSE 906 OF THE NRA'S 'SPECIFICATION FOR ROAD WORKS' & SHALL SATISFY THE REQUIREMENTS OF TABLE 9/1. IT SHALL BE LAID & COMPACTED IN ACCORDANCE WITH CLAUSE 901 & CLAUSE 702.
3. 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.
4. SUB FORMATION & CAPPING MATERIAL SHALL COMPLY WITH CLAUSE 613 OF THE NRA's 'SPECIFICATION FOR ROAD WORKS' & SHALL SATISFY THE REQUIREMENTS OF TABLE 6/1 & 6/2.
5. STONE BLINDING WITH 2–6.3mm AGGREGATE SHALL MEET THE FOLLOWING GRADINGS, IN ACCORDANCE WITH IS EN 13242

BS SIEVE SIZE (mm)	% BY MASS PASSING
14	100
10	98–100
6.3	80–99
2.0	0–20
1.0	0–5

6. CRUSHED STONE WITH 4–20mm AGGREGATE SHALL MEET THE FOLLOWING GRADINGS, IN ACCORDANCE WITH IS EN 13242

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

7. ANY ROADS PROPOSED TO BE USED FOR CONSTRUCTION TRAFFIC ARE TO HAVE INCREASED DEPTH OF SUB-BASE FOR THE DURATION OF CONSTRUCTION IN ACCORDANCE WITH DBFL SPECIFICATIONS.
8. ALL WORKS SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY.
9. ALL GEOGRIDS TO BE LAID IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
10. ALL FILLING BELOW CAPPING LAYER (IE SUB-FORMATION) TO BE GRANULAR FILL MATERIAL CLASS 1C COARSE GRANULAR MATERIAL IN ACCORDANCE WITH THE SPECIFICATION FOR ROADWORKS, NRA
11. ALL ROAD GULLIES IN ROADWAYS TO BE NON-LOCKABLE

Rev	Date	Description	By	Chk
P	01/10/20	PLANNING (ABP)	PTC	GD
PP4	09/10/19	PLANNING (ABP)	SM	GD
PP3	13/09/19	ISSUED TO IRISH WATER	SM	GD
PP2	29/04/19	PRE-PLANNING MTG (ABP)	SM	GD
PP1	20/11/18	PRE - PLANNING TO SDCC	PTC	GD

PLANNING

gdcl CONSULTING ENGINEERS
Scope House, Perrystown, Dublin D12 K8PP
75 Shelton Street, Covent Garden, London WC2H 9JQ
www.gdalyconsulting.com

PROJECT
Cookstown Cross, Fourth Avenue
Cookstown Industrial Estate

CLIENT
Steelworks Property Developments Limited

DRAWING TITLE
Typical Construction details Sheet 1

drn. by: PTC	date: JUL'16	scale: As Shown
drawing size: A1	chk: TM	app: GD
job no: P-1606	drg. no: P-1606-C-104	rev: P

NOT FOR CONSTRUCTION