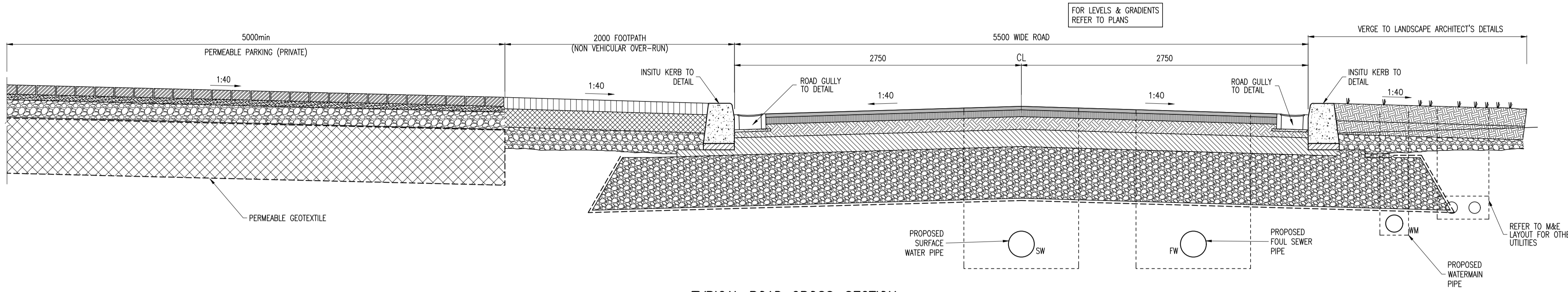


SURFACE CONSTRUCTION PARKING BAY (PRIVATE IN CURTLEDGE)

- 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
- 150mm ROAD BASE COURSE CEMENT STABILISED COARSE GRADED AGGREGATE AS CBGM B TO NRA CL 822 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)

- 100mm CONCRETE PAVEMENT (150mm AT VEHICLE CROSSINGS WITH A393 MESH TOP & BOTTOM) 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 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 LIABLE TO CRACKING). FINISH BY FLOATING WITH WOODEN TROWEL WHILE STILL GREEN THEN LIGHTLY BRUSHED WITH A BASS BROOM TO PRODUCE SLIGHT ROUGHNESS.

- 45mm OF SMA 14 SURF PMB/105-60 DES TO CLAUSE 942 ON
- 95mm OF ASPHALT CONCRETE BINDER COURSE: AC 20 DENSE BIN 40/60 (20mm AGGREGATE) TO CLAUSE 900.3.1 ON
- 150mm OF CLAUSE 808 D.O.E. GRADED CRUSHED ROCK LAID TO FALL AND BLUNDED WITH QUARRY SCREENINGS ON
- 600mm CLASS 6F2 CAPPING STONE ON GEOTEXTILE TO CL 609 (NRA). CONTRACTOR TO CARRY OUT CBR TESTING PRIOR TO COMMENCING ROAD CONSTRUCTION AND NOTIFY ENGINEER OF RESULTS TO ALLOW CONFIRMATION OF CAPPING THICKNESS



TYPICAL ROAD CROSS-SECTION
SCALE 1:25

FOOTPATH

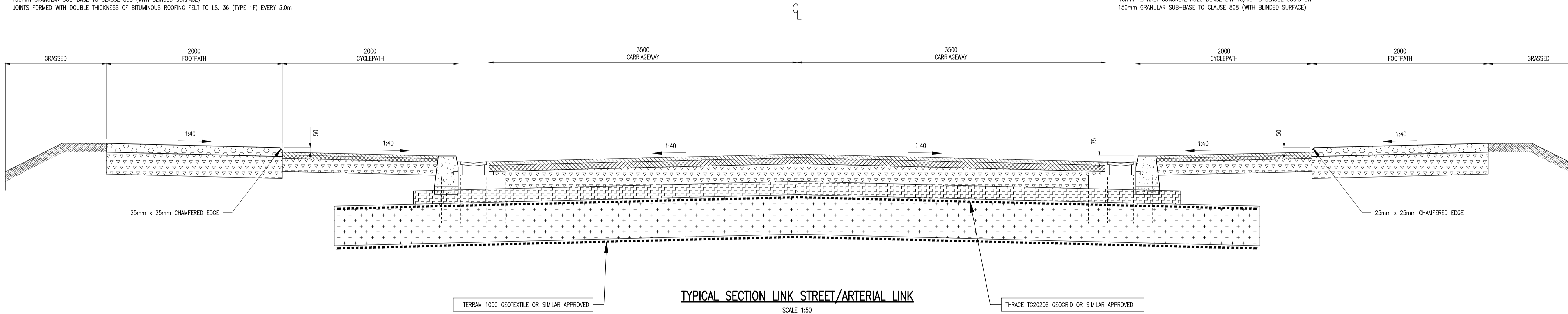
- (RCD 1100/S) (EXCEPT CLAUSE 804 TO BE REPLACED WITH CLAUSE 808) XF4 EXPOSURE CLASS IN ACCORDANCE WITH CLAUSE 1103
- ALTERNATIVE WHERE VEHICLE OVERRUN OCCURS:
- 150mm UNREINFORCED CONCRETE GRADE C40 (EXPOSURE CLASS XF4) TO EN206(BRUSH FINISHED TO CLAUSE 1026) WITH BULL NOSED TROWEL EDGE ON
- 150mm GRANULAR SUB-BASE TO CLAUSE 808 (WITH BLUNDED SURFACE)
- JOINTS FORMED WITH DOUBLE THICKNESS OF BITUMINOUS ROOFING FELT TO I.S. 36 (TYPE 1F) EVERY 3.0m

ROAD CONSTRUCTION

- SURFACE COURSE 45mm OF SMA 14 SURF PMB 65/105-60 DES TO CLAUSE 942 (MIN PSV 60)
- BINDER COURSE 60mm OF ASPHALT CONCRETE AC20 DENSE BIN 40/60 REC TO CLAUSE 906
- BASE COURSE 190mm OF ASPHALT CONCRETE AC32 DENSE BASE 40/60 TO CLAUSE 906
- *SUB-BASE 150mm OF TYPE B MATERIAL TO CL 808
- *CAPPING 600mm OF CLASS 6F2 MATERIAL TO CL 613(DEPENDANT ON CBR TEST, 2% ASSUMED)

OFF-ROAD CYCLEPATH

- 20mm SURFACE COURSE OF ASPHALT CONCRETE AC5 DENSE SURF 70/100 TO CLAUSE 900.3 ON
- 40mm ASPHALT CONCRETE AC20 DENSE BIN 40/60 TO CLAUSE 900.3 ON
- 150mm GRANULAR SUB-BASE TO CLAUSE 808 (WITH BLUNDED SURFACE)



TYPICAL SECTION LINK STREET/ARTERIAL LINK
SCALE 1:50

CARPARK BAY CONSTRUCTION (PRIVATE IN CURTLEDGE)

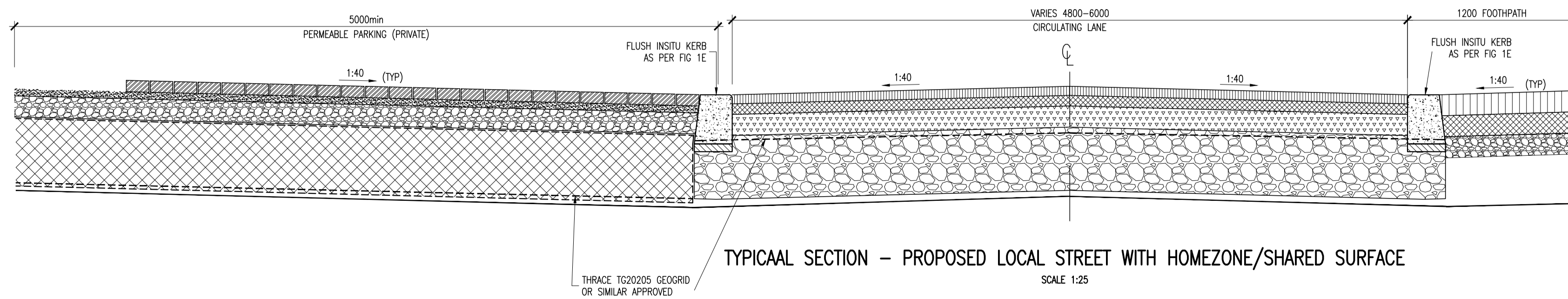
- 80mm PERMEABLE PAVING BLOCK TO BS EN 1338 & ARCHITECTS SPECIFICATION & APPROVAL & LAYING PATTERN ON
- 50mm LAYING MATERIAL JOINTING TO MANUFACTURERS SPECIFICATION (TYPICALLY TYPE 2/6.3 GC 80/20 TO I.S. EN 13342) ON
- 150mm ROAD BASE COURSE CEMENT STABILISED COARSE GRADED AGGREGATE AS CBGM B TO NRA CL 822 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)

ROAD CONSTRUCTION

- 50mm OF 45 mm SMA 14 SURF PMB/105-60 DES TO CLAUSE 942 ON
- 95mm OF ASPHALT CONCRETE BINDER COURSE: AC 20 DENSE BIN 40/60 (20mm AGGREGATE) TO CLAUSE 906 ON
- 150mm OF GRANULAR SUB-BASE TO CLAUSE 808 (TYPE B) WITH BLUNDED SURFACE ON
- 600mm CLASS 6F2 CAPPING STONE

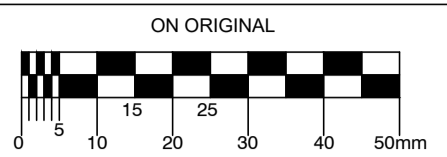
CONCRETE FOOTPATH

- 150mm CONCRETE PAVEMENT (150mm AT VEHICLE CROSSINGS WITH A393 MESH TOP & BOTTOM) 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 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 LIABLE TO CRACKING). FINISH BY FLOATING WITH WOODEN TROWEL WHILE STILL GREEN THEN LIGHTLY BRUSHED WITH A BASS BROOM TO PRODUCE SLIGHT ROUGHNESS.



TYPICAL SECTION - PROPOSED LOCAL STREET WITH HOMEZONE/SHARED SURFACE
SCALE 1:25

© COPYRIGHT OF THIS DRAWING IS RESERVED BY DBFL CONSULTING ENGINEERS. NO PART SHALL BE REPRODUCED OR TRANSMITTED WITHOUT THEIR WRITTEN PERMISSION.



- NOTES:**
- ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH THE NRA SPECIFICATION FOR ROAD WORKS UNLESS OVERRIDDEN BY LOCAL OVERSEEING AUTHORITY'S STANDARDS
 - SUB-BASE MATERIAL SHALL COMPLY WITH CLAUSE 808 GRANULAR MATERIAL TYPE B OF NRA'S SPECIFICATION FOR ROAD WORKS & SHALL SATISFY THE REQUIREMENTS OF TABLE 6/4 & 6/2.
 - 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.
 - STONE BLINDING WITH 2-6.3mm AGGREGATE SHALL MEET THE FOLLOWING GRADINGS, IN ACCORDANCE WITH IS 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
 - CRUSHED STONE WITH 4-20mm AGGREGATE SHALL MEET THE FOLLOWING GRADINGS, IN ACCORDANCE WITH IS 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
 - 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.
 - ALL WORKS SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY.
 - ALL GEOGRIDS TO BE LAID IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
 - ALL AGGREGATES PROPOSED FOR USE ON THIS SCHEME SHALL MEET FULLY THE REQUIREMENTS OF THE NRA SPECIFICATION FOR ROAD WORKS AND IN ADDITION THE REQUIREMENTS STATED IN STANDARD RECOMMENDATION S.R. 21:2014 GUIDANCE ON THE USE OF I.S. EN 13242:2002 -A1:2007-AGGREGATES FOR UNBOUND AND HYDRAULICALLY BOUND MATERIALS FOR USE IN CIVIL ENGINEERING WORK AND ROAD CONSTRUCTION.

REV.	DATE	DESCRIPTION	BY	CHKD.
PLANNING				
DESIGNED	BK	PREPARED	ICD	
DATE	APR 2019	CHECKED	DJR	

DBFL CONSULTING ENGINEERS

DBFL Office: Ormond House, Upper Ormond Quay, Dublin 7, Ireland. PHONE +353 1 400 4000 FAX +353 1 400 4050

WATERFORD OFFICE: Unit 2, The Chandlery, 1-2 O'Connell Street, Waterford, Ireland. PHONE +353 51 309 5500 FAX +353 51 844 913

DBFL Consulting Engineers email: info@dbfl.ie site: www.dbfl.ie

PROJECT
LANDS AT CAPDOO, CLANE, CO. KILDARE

DRG. TITLE
TYPICAL ROAD CONSTRUCTION DETAILS SHEET 1

CLIENT
ARDSTONE RESIDENTIAL FUND

SCALE	1:500 @A1	FILE REF.	162074-2011
DRG. NO.	162074-2011		

FIGURE 1A