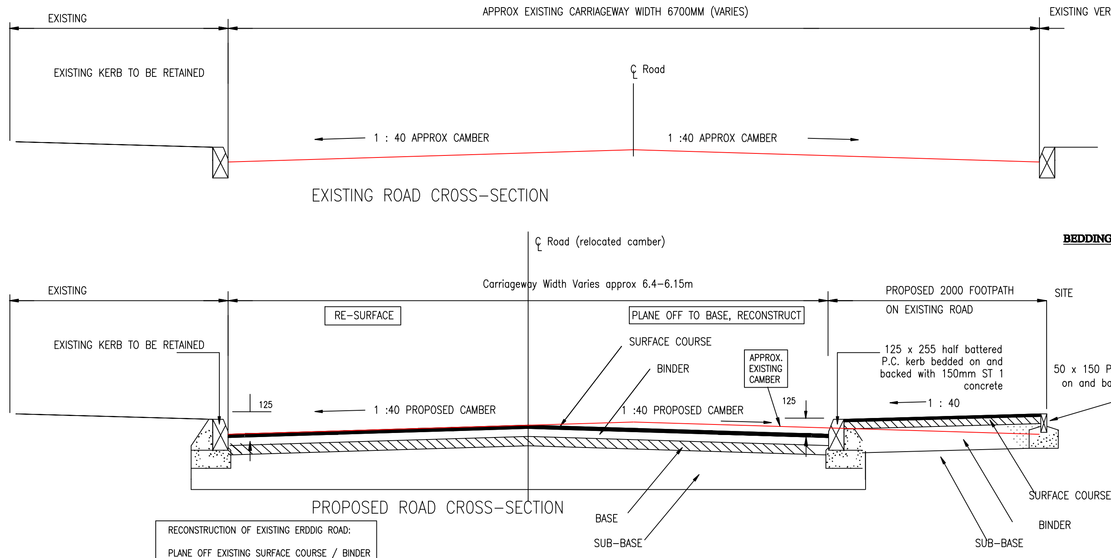
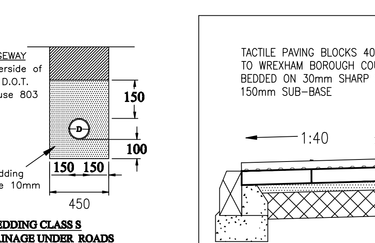


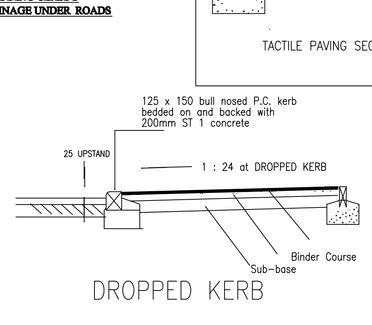
RECONSTRUCTION OF EXISTING ERDDIG ROAD:

PLANE OFF EXISTING SURFACE COURSE / BINDER COURSE AS REQUIRED.
REGULATION COURSE TO AS BINDER.
EXISTING ROAD NARROWED FROM APPROX 6.7m to NEW 5.5m

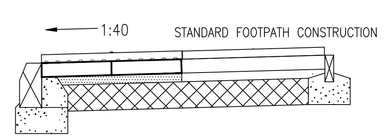


BEDDING CLASS S

BEDDING DETAIL FOR DRAINAGE UNDER ROADS



TACTILE PAVING BLOCKS 400x400mm with 6mm UPSTAND TO WREXHAM BOROUGH COUNCIL STANDARDS BEDDED ON 30mm SHARP SAND BED on 150mm SUB-BASE

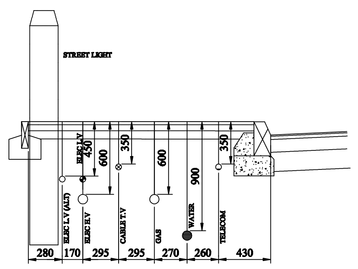


ROAD CONSTRUCTION DETAILS

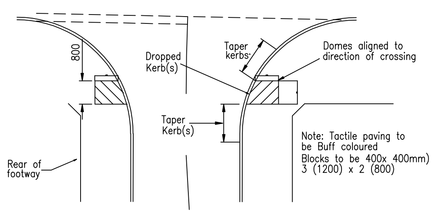
MATERIAL		B.S. EN 13108 Section REF.	NOMINAL AGGREGATE SIZE	THICKNESS OF LAYER (mm)	
					PSV
SURFACE COURSE	HOT ROLLED ASPHALT	SECTION 4	14mm	45mm	60
BINDER COURSE	ASPHALT CONCRETE BINDER 100/150	SECTION 1	20mm	60mm	

FOOTPATH CONSTRUCTION DETAILS: 1.8m WIDTH

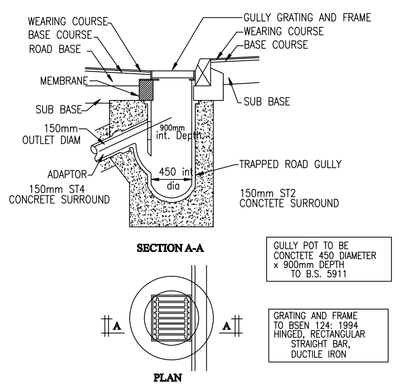
LAYER	MATERIAL	B.S. EN 13108 Section REF.	NOMINAL AGGREGATE SIZE	THICKNESS OF LAYER (mm)	
				FOOTPATH	VEHICLE CROSS OVERS (site entrance)
SURFACE COURSE	ASPHALT CONCRETE BINDER 160/220	SECTION 1	6mm	20mm	20mm
BINDER COURSE	ASPHALT CONCRETE BINDER 160/220	SECTION 1	20mm	40mm	60mm
SUB-BASE	Granular Type 1	D.O.T. Clause 803	-	100mm	150mm
TOTAL THICKNESS (mm)				160mm	230mm



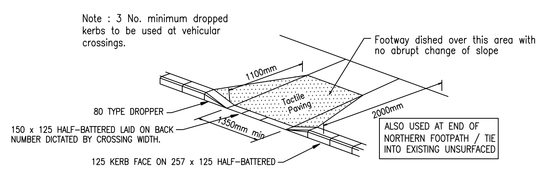
EXISTING SERVICE POSITIONS
(IDEAL SITUATION TO BE CONFIRMED ON SITE)



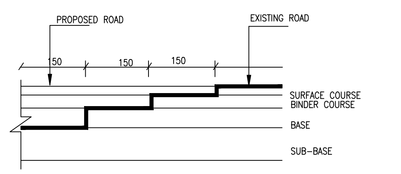
UNCONTROLLED IN-LINE CROSSING
(TACTILE PAVING)



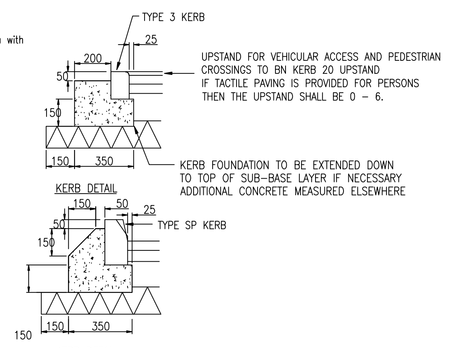
TRAPPED GULLY DETAIL
ONLY REQUIRED IF EXISTING GULLY CANNOT BE RE-USED



DETAIL OF DROPPED CROSSING



CONSTRUCTION TIE-IN TO EXISTING



1. KERBS TO BE MANUFACTURED TO STANDARDS OF BS7263 PART 1.
2. KERBS TO BE LAID ON 10mm DESIGNATION (ii) MORTAR ON PREPARED FOUNDATION. ALTERNATIVELY LAY KERBS ON WELL COMPACTED BED OF SEMIDRY CONCRETE, MAX 35 SLUMP, ALL IN ACCORDANCE WITH BS7263 PART 2.

NEW CARRIAGEWAY WIDTH:
1. TIE IN WITH EXISTING UNSURFACED AT NORTHERN SITE BOUNDARY
2. KERB TO BE 1.4m FROM TRUNK OF EXISTING TREE, AT CENTRE OF SITE
3. TIE IN TO POINT APPROX 3.5, SOUTH OF SITE BOUNDARY

NEW FOOTPATH WIDTH:
NEW 2.0m WIDE FOOTPATH, REDUCED TO 1.4m AT EXISTING TREE. TAPER TO TREE OVER A 10m LENGTH

'INFRA-WEB' TREE PROTECTION SYSTEM BY INFRAGREEN Ltd.

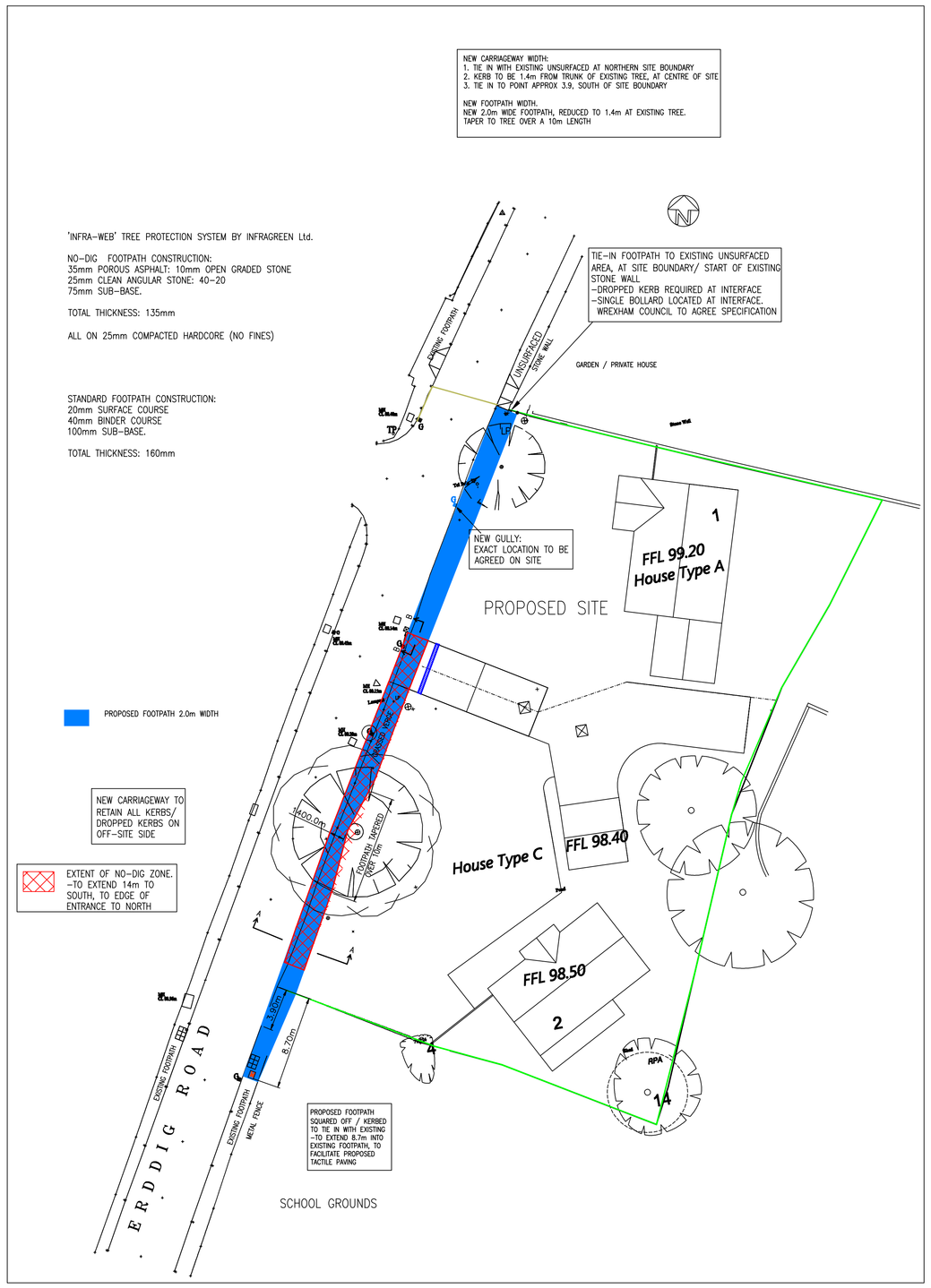
NO-DIG FOOTPATH CONSTRUCTION:
35mm POROUS ASPHALT: 10mm OPEN GRADED STONE
25mm CLEAN ANGULAR STONE: 40-20
75mm SUB-BASE.

TOTAL THICKNESS: 135mm

ALL ON 25mm COMPACTED HARDCORE (NO FINES)

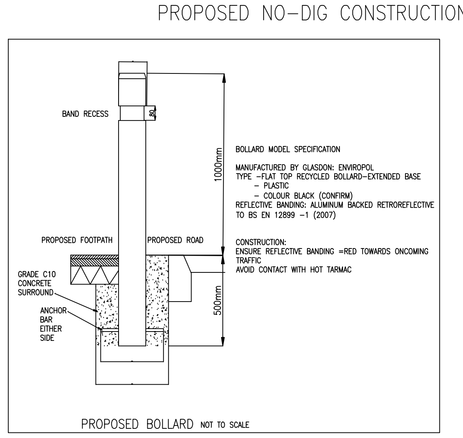
STANDARD FOOTPATH CONSTRUCTION:
20mm SURFACE COURSE
40mm BINDER COURSE
100mm SUB-BASE.

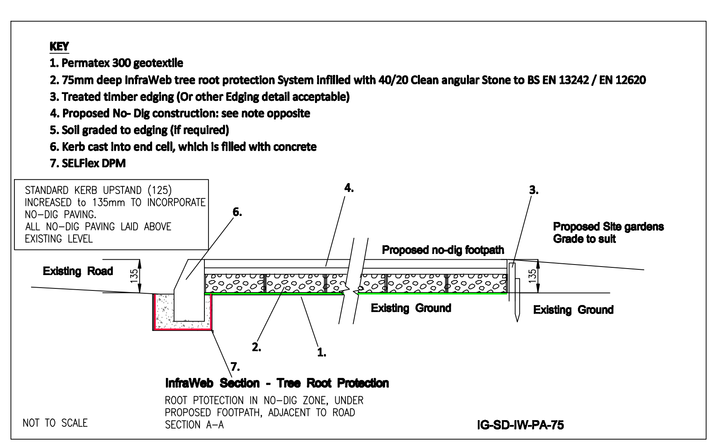
TOTAL THICKNESS: 160mm

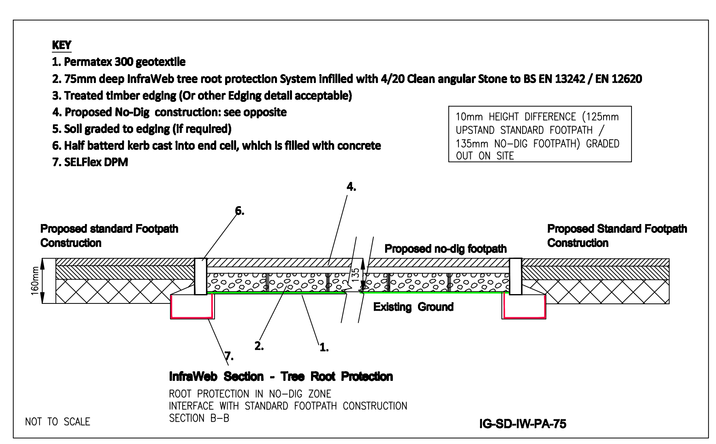


PROPOSED EXTENT OF NO-DIG scale 1:250

PROPOSED NO-DIG CONSTRUCTION







NOTES

1. **All earthworks and road works shall comply with the requirements of the National Assembly for Wales Specification for Highway Works (SHW) including amendments, unless stated otherwise. Information below and elsewhere on this drawing are intended to comply with the latest specification. Should there be any discrepancies please contact Kane Design.**
2. **All unreinforced concrete bedding and backing to kerbs and edgings shall be low slump designated mix GEN 0 or standard mix ST1 in accordance with BS 5328 : 1991**
3. **Precast concrete kerbs and edgings shall comply with BS 7263**
4. **Workmanship for concrete works shall comply with BS 8000 : Section 2 : 1990**
5. **Hot Rolled Asphalt surface course shall be to Clause 911 SHW, and to BS13108 Section 4: with 50% pen binder and minimum target binder content of 7.3%. At target binder content the minimum stability shall be 5500 N, the maximum flow 4mm and the minimum Marshall Quotient 1.4 N/mm . Coated chippings to clause 915 SHW, shall be 20mm nominal size and applied to give 1.5mm average texture depths when measured to clause 921 SHW and a 60% shoulder to shoulder cover at roundabouts. Minimum Polished stone value of chippings shall be 60mm.**
6. **The use of crushed limestone rock shall not be permitted in any wearing course layer**
7. **The rear edges of all footways must present smooth flowing alignments and should not undulate to accommodate private drives**
8. **Sub-grade improvement (capping) layer material to be Class 6P2 to DOT Specification Clause 6/3 NOT REQUIRED**
9. **The total carriageway thickness shall be a minimum of 450mm on frost susceptible sub grades.**
10. **Service strips to be grass seeded using Mix A as defined by National Assembly for Wales Specification**
11. **Sub -base thickness to be finalised at the time of construction after CBR testing of the road sub-base NOT REQUIRED**

TREE PROTECTION: NO-DIG SPECIFICATION:

1. UPON COMPLETION OF ALL CONSTRUCTION WORK, THE VEHICULAR ACCESS AND DRIVEWAY SHALL BE CONSTRUCTED USING A NO-DIG THEE-DIMINSIONAL CELLULAR CONFINEMENT SYSTEM IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS
2. CONSTRUCTION SHALL BE UNDERTAKEN IN DRY WEATHER
3. GROUND VEGETATION SHOULD BE KILLED USING A TRANSLOCATED HERBICIDE SUCH AS GLYPHOSATE. ALL DEAD ORGANIC MATERIAL SHOULD BE REMOVED.
4. ALL MAJOR PROTRUSIONS SUCH AS ROCKS AND DEMOLITION MATERIAL SHALL BE REMOVED. ALL HOLES SHALL BE FILLED WITH TOPSOIL.
5. PERMEABLE MATTING SHALL BE LAID (GEOTEXTILE) AND THE CELLULAR CONFINEMENT SYSTEM LAID ON TOP AND PEGGED IN PLACE.
6. THE CELLULAR CONFINEMENT SYSTEM TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS GUIDELINES USING NO-FINES AGGREGATE. FILL CELLS WORKING FURTHEST FROM TREE FIRST. FURTHER FILLING SHOULD BE CARRIED OUT USING THE CELLWEB AS A PLATFORM
7. LOCKING TO BE TANALISED BOARDS ATTACHED TO PEGS DRIVEN INTO THE GROUND
8. INSTALL A PERMEABLE WEARING COURSE.
9. THE ARBORICULTURALIST [TREE SOLUTIONS] IS TO BE RESPONSIBLE FOR MONITORING ALL EXCAVATION WORKS AND ISSUING A CERTIFICATE OF PARTIAL COMPLETION.
10. NO LIMESTONE AGGREGATE IS TO BE USED.

Rev	Description	Date	Drwn	Chkd
C	DRAWING O2 / 03 COMBINED	13:04:17	AK	AK
B	NO-DIG SPECIFICATION, TACTILE DETAIL, ADDED	30:03:17	AK	AK
A	HIGHWAY COMMENTS AND BOLLARD ADDED	24:01:17	AK	AK

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Client
DAVE COTTLE LTD

Project
PROPOSED DEVELOPMENT at LAND off ERDDIG ROAD, WREXHAM

Title
CONSTRUCTION DETAILS SECTION 38/278 WORKS and NO-DIG DETAILS

DRAWING NUMBER	SCALE	AS SHOWN	@ A0
1354-02	DATE	07.12.16	REVISION
	DRAWN	AK	C
	CHECKED	AK	