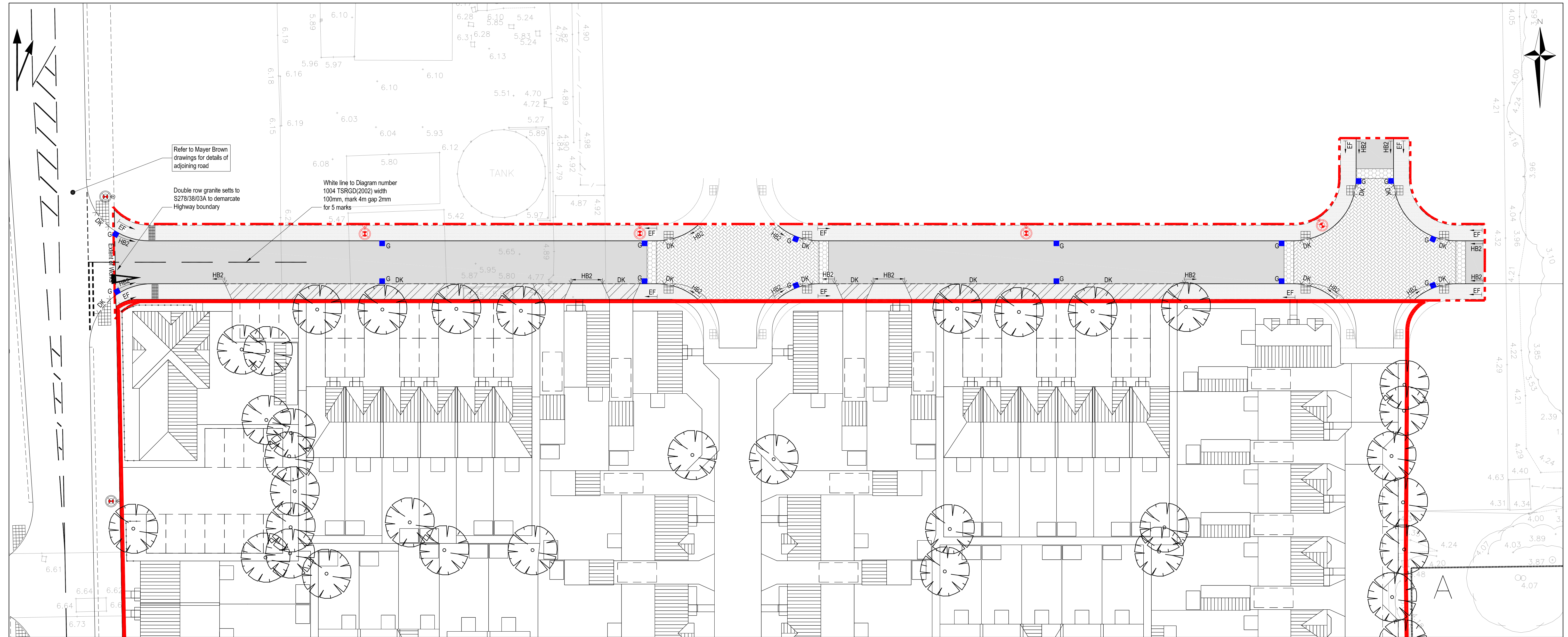




KEY

- Site Boundary
- DK: Dropped kerb (Type BN). Upstand not to exceed 6mm at pedestrian crossings, 25mm for vehicular crossings (S278/38/02/A)
- HB2: Kerb Type HB2 125x255mm (S278/38/02/A)
- EF: Edging Type 1 125x255mm (S278/38/02/A)
- Duct crossing for services. Details TBC refer to TOS drawings for details of proposed services
- G: Proposed gully (S278/38/11/A)
- Indicative location of proposed street lighting to be confirmed at detail design

Accurate site tests must be carried out to confirm CBR value prior to construction. Subject to on-site confirmation of actual CBR, depth of sub-base and capping layer may be modified as follows, subject to agreement of Engineer

TABLE A

CBR of sub-grade (%)	Depth of open graded crushed rock (mm)
≤2.0*	750
2.0 to 5.0%	500
5.0 to 15.0%	500
≥15%	500

*Where CBR value is less than 1%, special treatment may be necessary. Consult Engineer.

CONSTRUCTION KEY

- UNCONTROLLED PEDESTRIAN CROSSING (TACTILE PAVING SLABS) (S278/38/18/A)
New uncontrolled pedestrian crossing. Blister tactile paving slabs (400x400x50mm) laid to finish flush with top of dropped kerb. Colour to be buff.
- 50mm: Tactile paving slabs (BS7263: Part 1)
- 30mm: Compacted sand bedding
- 150mm: Type 1 Sub-Base to Cl.803
- ASPHALT FOOTWAY CONSTRUCTION (S278/38/04/B)
20mm: AC 6 dense surf 100/150 recipe mix to BS EN13108-1: 2006
50mm: AC 20 dense bin 40/60 recipe mix to BS EN13108-1: 2006
200mm: Type 1 Sub-base to Cl.803
Marshalls M380 tanking membrane or similar approved
- ASPHALT CROSSOVER TYPE 1 (S278/38/07/C)
25mm: AC6 Close surf 100/150 to BS EN13108-1: 2006
30mm: AC20 dense binder 40/60 recipe mix to BS EN13108-1: 2006
200mm: Type 1 Sub-base to Cl.803

ASPHALT CARRIAGWAY CONSTRUCTION (S278/38/21/B)

- 30mm: AC10 Close surf 100/150 to BS EN13108-1: 2006
- 50mm: AC20 dense binder 40/60 recipe mix to BS EN13108-1: 2006
- 100mm: A32 dense base 40/60 recipe mix to BS EN13108-1: 2006 to grading BS EN 13242:2002
- 750mm: Open graded crushed rock 4/20mm to Priora BS EN 12620 to provide a minimum void space of 0.32 (Marshalls Priora aggregates or similar approved)
- Marshalls M380 tanking membrane or similar approved

BLOCK PAVED RAMP TYPE 5 (S278/38/16/C)

- 80mm: Precast concrete blocks to BS EN1338: 2003
- 150mm: Freshly laid and unset C20/20 class concrete bed
- 520-595 mm: Open graded crushed rock 4/20mm to Priora BS EN 12620 to provide a minimum void space of 0.32 (Marshalls Priora aggregates or similar approved)
- Marshalls M380 tanking membrane or similar approved

BLOCK PAVED CONSTRUCTION LAID HERRINGBONE PATTERN H(S278/38/21/B)

- 80mm: Precast concrete blocks to BS EN1338: 2003
- 30mm: Compacted sharp sand to BS7533-3 CAT II
- 50mm: AC20 dense binder 40/60 recipe mix to BS EN13108-1: 2006
- 845 mm: Open graded crushed rock 4/20mm to Priora BS EN 12620 to provide a minimum void space of 0.32 (Marshalls Priora aggregates or similar approved)
- Marshalls M380 tanking membrane or similar approved

NOTES

- This drawing to be read in conjunction with all relevant documents and specifications
- Dimensions not to be scaled
- The works shall be carried out in accordance with Volume 1 of the Manual of Contract Documents for Highway Works - Specification for Highway Works
- For details on the location of existing services, refer to the utility company record drawings. All existing services are to be located and marked on the ground prior to any construction commencing
- Cover levels to be adjusted to suit new carriageway/footway levels
- Pavement construction thicknesses are based on a CBR value of ≤2%. Laboratory CBR Tests are to be carried out and results reported to the Engineer prior to construction in order for the design to be confirmed. CBR tests are to be carried out following proof rolling of the subgrade
- All new HB2 kerbing to have 125mm upstand on main carriageway and 50mm upstand on table tops unless noted otherwise
- All tactile paving slabs should be laid so that the blisters are aligned in the direction of travel to the opposite crossing point
- For construction details refer to West Sussex County Council (WSCC) construction details (references shown in brackets)
- Refer to WSCC detail (S278/38/20/B) option 1 for carriageway tie in details
- Refer to drawing CV8140927/613 for table top and ramp details
- All signs and road markings shall be in accordance with the 'Traffic Signs Regulations and General Directions' 2002 (TSRGD 2002)
- All road markings shall be in white thermoplastic reflectonised material or paint in accordance with BS EN 1871 and to cl.1212 with ballotini glass beads unless otherwise noted
- Contractor to include for ducting for the electronic supply to street lighting

P2	Impermeable membrane added to road construction.	09.09.15	JTH	SH
P1	Block paved construction added to key	30.06.15	MP	SH
Rev.	Description	Date	Chkd	



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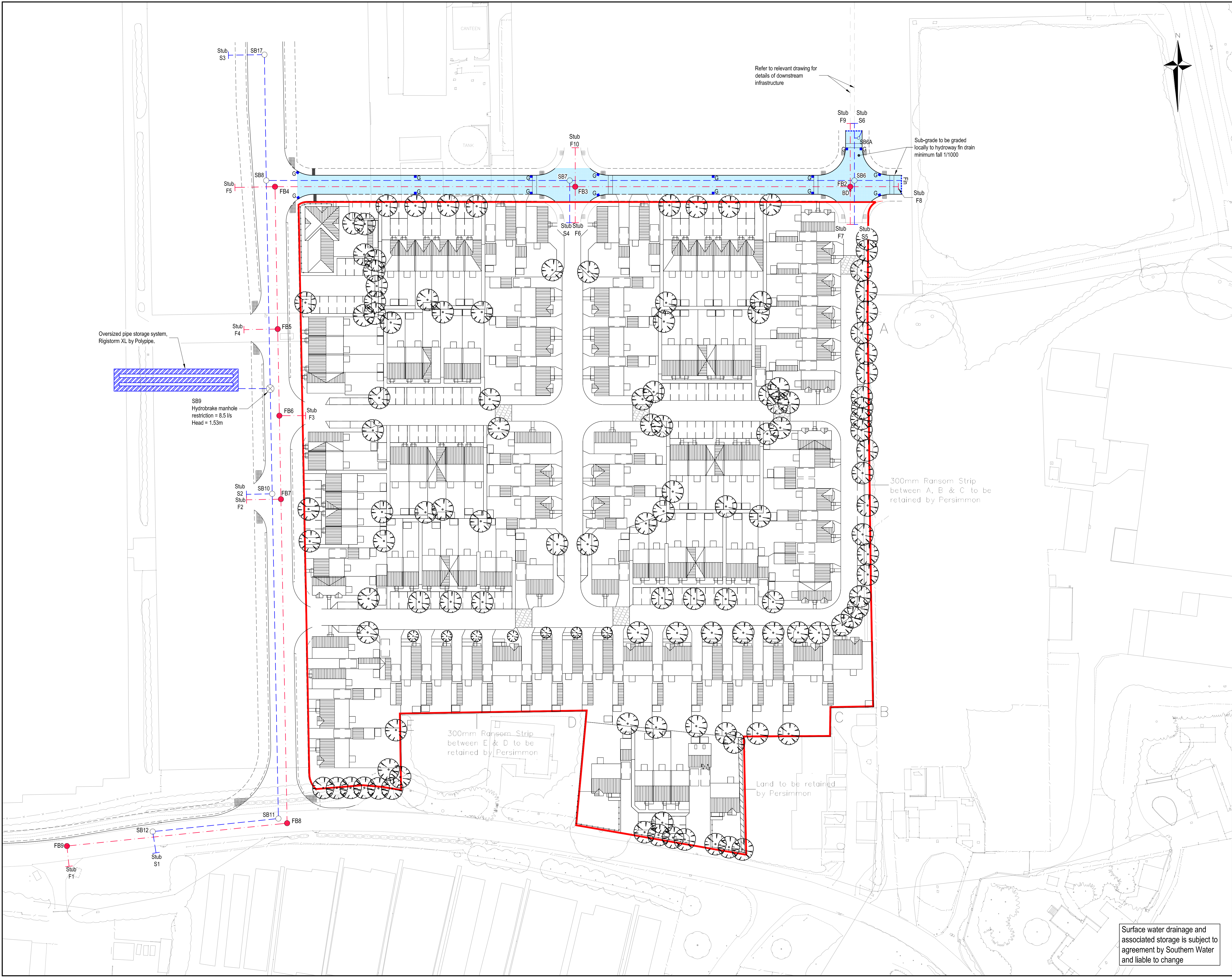
Client :  **PERSIMMON**

Project : **Toddington Lane North Littlehampton**

Title : **B3 / B5 Access Road Construction Plan**

Project Engineer : S. Hudson	Scale : 1:250 @ A1
Project Director : K. Rayner	Date : March 2015
Status : PRELIMINARY	

Drawing No. CV8140927/611	Rev P2
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- NOTES**
1. This drawing to be read in conjunction with all relevant documents and specifications
 2. Dimensions not to be scaled
 3. All adoptable works to be carried out in accordance with Sewers for Adoption 5th Edition
 4. For details on the location of existing services, refer to the utility company record drawings. All existing services are to be located and marked on the ground prior to any construction commencing
 5. All manhole covers to be installed parallel to final kerbs, edgings, paving joints, or building lines as appropriate
 6. 150mmØ to 225mmØ pipework for adoption to be vitrified clay (VC) pipes, Kitemark certified with flexible spigot and socket joints and shall comply with the requirements of BS EN 295 and BS 65 (surface water only)
 7. 300mmØ and above pipework for adoption to be concrete, Kitemark certified with flexible spigot and socket joints and shall comply with the requirements of BS EN 1916 and BS 5911 Part 1
 8. Private pipework may be either VC or thermoplastic structured wall sewer pipe and shall comply with WIS 4-35-01. Pipes shall be BSI Kitemarked, or have equivalent third part certification
 9. Refer to drainage schedules 8140927/SB1 and 8140927/FB1 for size, diameter, and inverts of all drainage stubs for future connection
 10. For finished road levels refer to drawings CV8140927/615-617
 11. For drainage construction details refer to drawing 8140927/614 and 8140927/FB1 and 8140927/SB1 for schedules

- KEY**
- FB3 Proposed Foul Water Manhole and Sewer
 - BD Back Drop Manhole
 - SB3 Proposed Surface Water Manhole and Sewer
 - Hydrobrake Control Chamber
 - Proposed Type 2 Surface Water Inspection Chamber
 - Fin Proposed 300mm deep hydroway fin drain, Duodrain 25 strip by Geosynthetics or similar approved
 - G Proposed Road Gully
 - Denotes Geocellular Storage Tank
 - Denotes area of Porous Sub-base. Refer to CV8140927/613 for construction details

P1	Stub S1 realigned, manhole SB6a added and oversized pipe storage system added.	09.09.15 JTH	SH
Rev.	Description	Date	Chkd



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Client :

**PERSIMMON**

Project :

**Toddington Lane
North Littlehampton**

Title :

**B3 / B5 Access Road
Drainage Plan**

Project Engineer : S. Hudson Scale : 1:250 @ A1

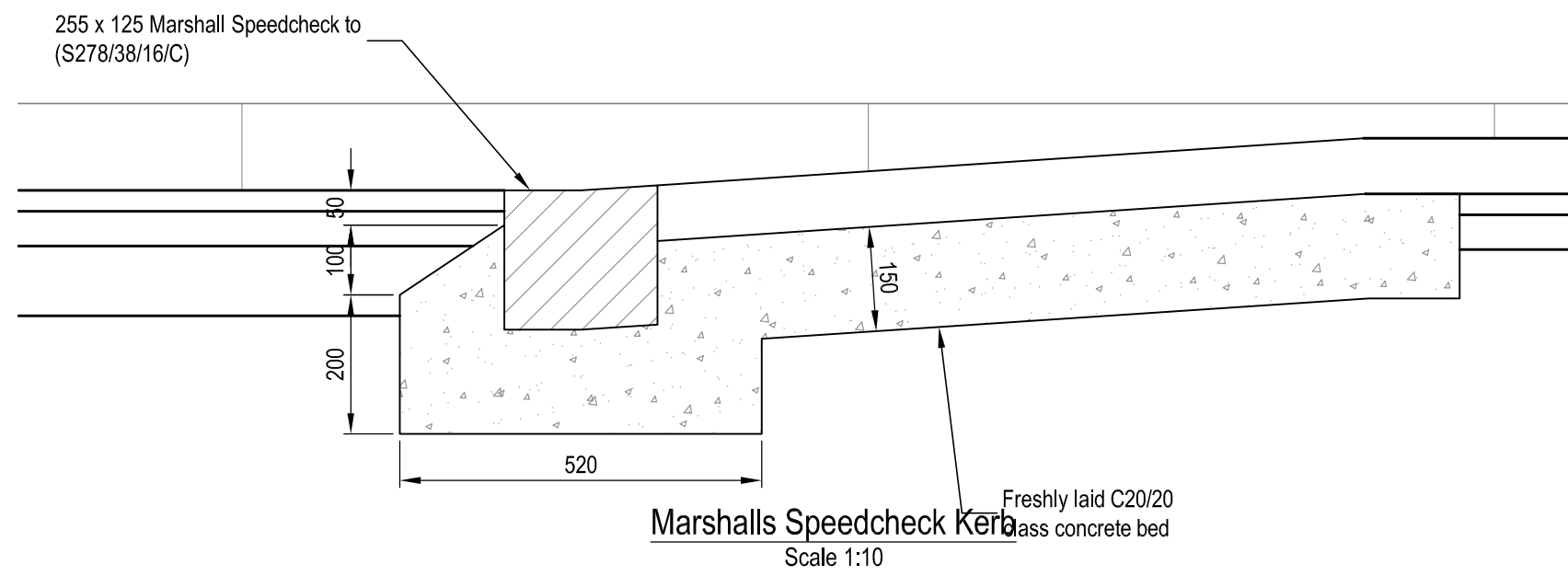
Project Director : K. Rayner Date : March 2015

Status : PRELIMINARY

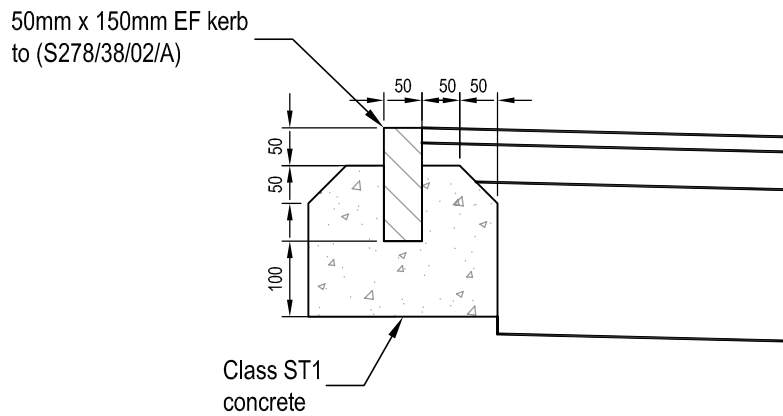
Drawing No. CV8140927/612

Rev P1

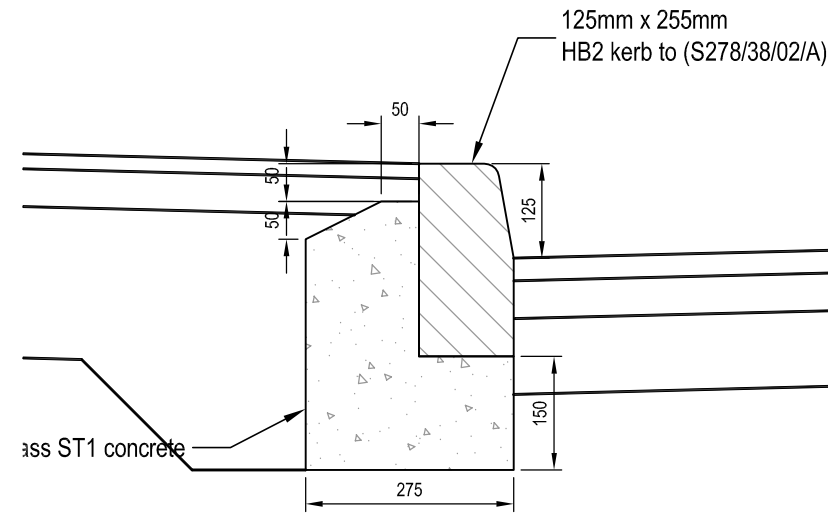
Surface water drainage and associated storage is subject to agreement by Southern Water and liable to change



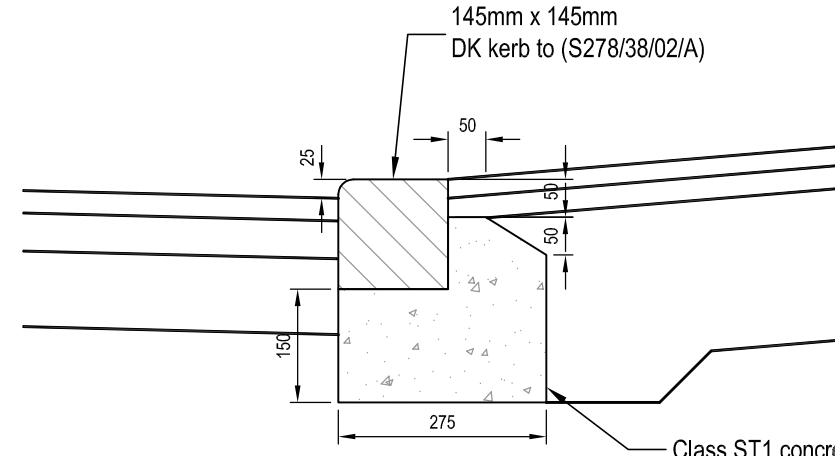
Marshall's Speedcheck Kerb
Scale 1:10



Type EF Kerb
Scale 1:10



Type HB2 Kerb
Scale 1:10



Type DK Kerb
Scale 1:10

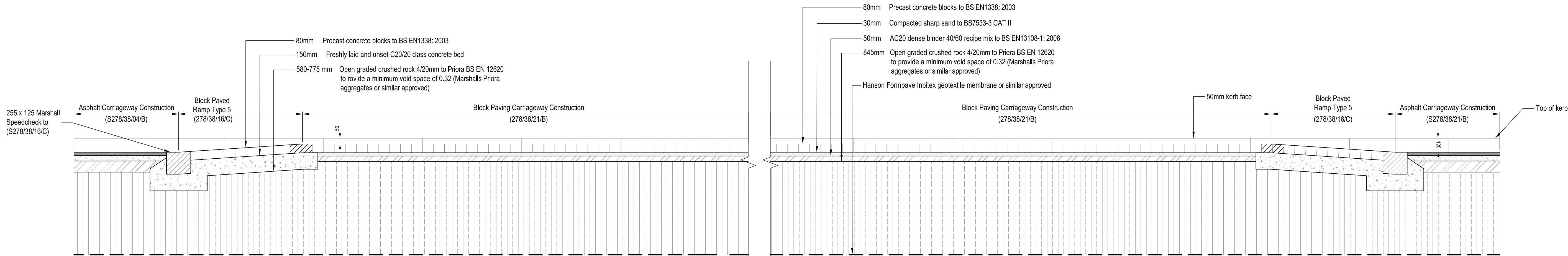
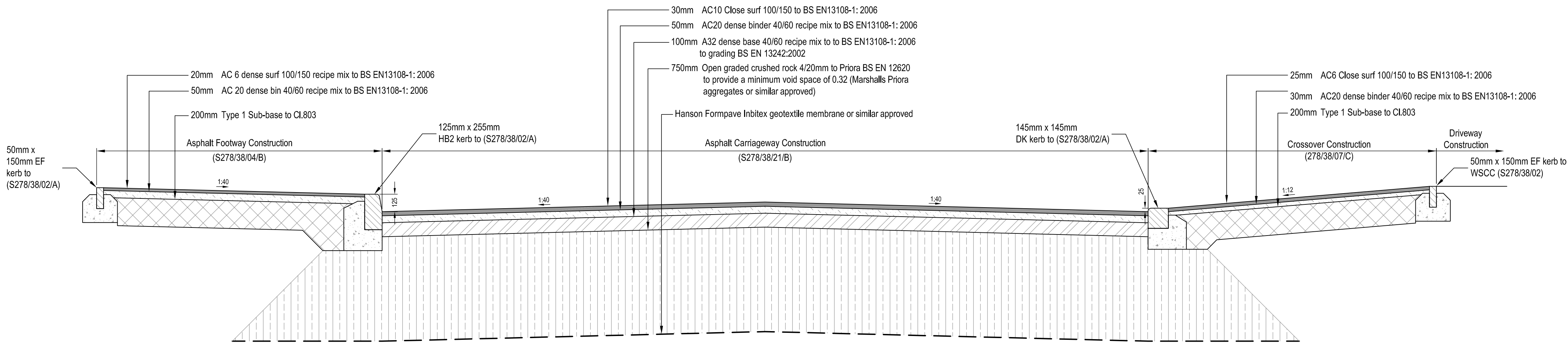


Table Top Detail
Scale 1:20



Carriageway Detail
Scale 1:20

NOTES

1. This drawing to be read in conjunction with all relevant documents and specifications
2. Dimensions not to be scaled
3. The works shall be carried out in accordance with Volume 1 of the Manual of Contract Documents for Highway Works - Specification for Highway Works
4. For details on the location of existing services, refer to the utility company record drawings. All existing services are to be located and marked on the ground prior to any construction commencing
5. Pavement construction thicknesses are based on a CBR value of $\leq 2\%$. Laboratory CBR Tests are to be carried out and results reported to the Engineer prior to construction in order for the design to be confirmed. CBR tests are to be carried out following proof rolling of the subgrade
6. All new HB2 kerbing to have 125mm upstand on main carriageway and 50mm upstand on table tops unless noted otherwise
7. For construction details refer to West Sussex County Council (WSCC) construction details (References shown in brackets)
8. Refer to WSCC detail (S278/38/20/B) option 1 for carriageway tie in details
9. Refer to drawing CV8140927/611 for Construction Plan

Rev.	Description	Date	Chkd
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Client :

 **PERSIMMON**

Project :

Toddington Lane
North Littlehampton

Title :

B3/B5 Access
Highway Construction Details

Project Engineer :

S. Hudson

Scale : As Shown @ A1

Project Director :

K. Rayner

Date : May 2015

Status :

PRELIMINARY

Drawing No.

CV8140927/613

Rev

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APPENDIX S: Free Discharge Rates from Phase 2 Sub-Catchment

Land North of Toddington Lane, Drainage Strategy, West of Wetlands

Parcels B2, B4 Partial, C1, C2 & C4

Sub Catchment Locations	Windes Pipe Number	Critical Storm (1in100yr event)	Peaks Discharge Rates Litres / Sec (Critical Storm)			Flood volume for 1in100yr+CC
			1in1yr	1in30yr	1in100yr +CC	
1	8.000	15min	3.6	11.2	19.8	0.45
2	9.000	15min	5.1	16.1	33.1	0
3	10.001	15min	9.3	31.6	41	16.8
4	11.000	15min	12.5	40.6	56.5	5.1
5	13.000	30min	5.7	17.7	32.4	0
6	15.000	15min	8.4	23.2	23.3	12.4
7	14.000	15min	10.5	28.6	26.2	16.5
8	16.000	15min	11.4	35.8	61.9	0.435
9	17.000	30min	9.1	24.9	51.5	0.68
10	18.000	15min	18.4	55	104.3	0
11	31.000	15min	22.6	62.3	74.1	23.5
12	20.000	15min	6.3	18	25.4	5.5
13	19.000	15min	5.3	15.7	22.3	3.5
14	22.000	240min	1.9	6.5	18	0
15	21.000	240min	1.6	5.6	15.5	0
16	39.000	240min	2.1	11.8	22.6	0
17	41.000	240min	2.5	17.6	30.4	0
18	40.001	240min	2.9	21.8	32.3	0
19	34.000	15min	10.3	33.8	55.9	0
20	36.000	15min	2.9	9.5	17.5	0
21	38.000	15min	7.3	23.9	44.1	0
22	37.002	15min	21.5	56.5	66.6	0
23	23.000	240min	2.1	5.3	10.3	0

