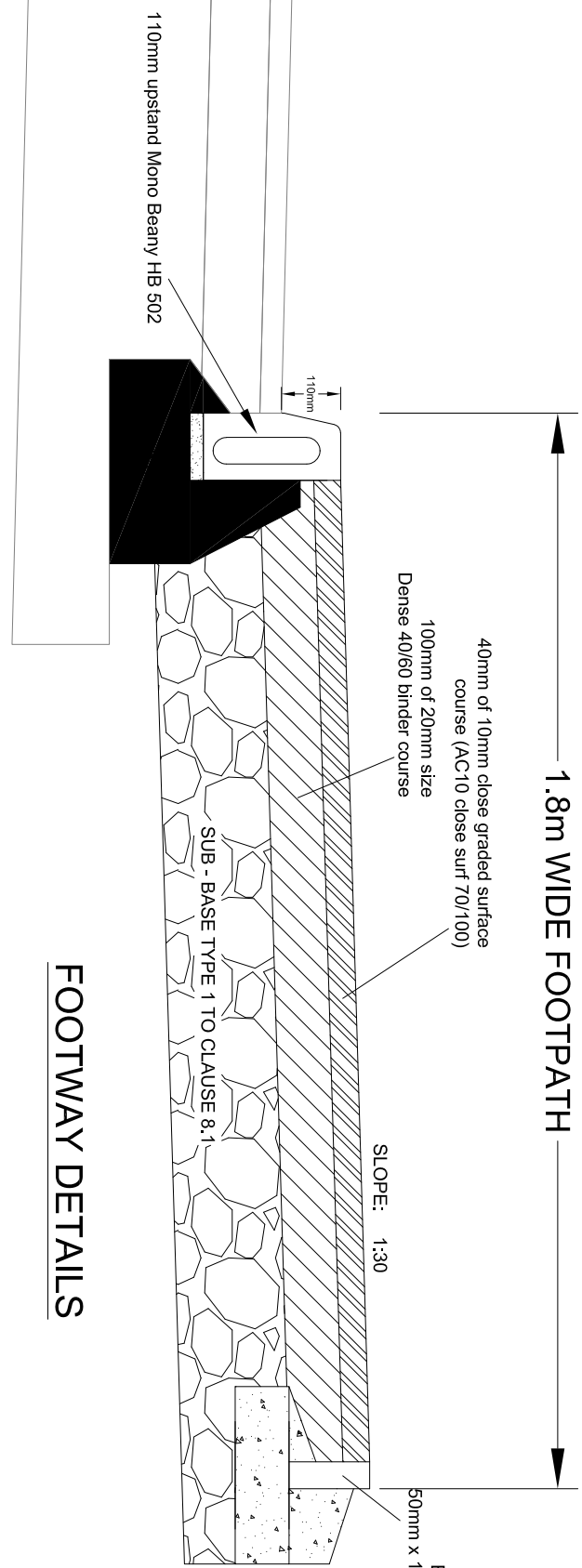


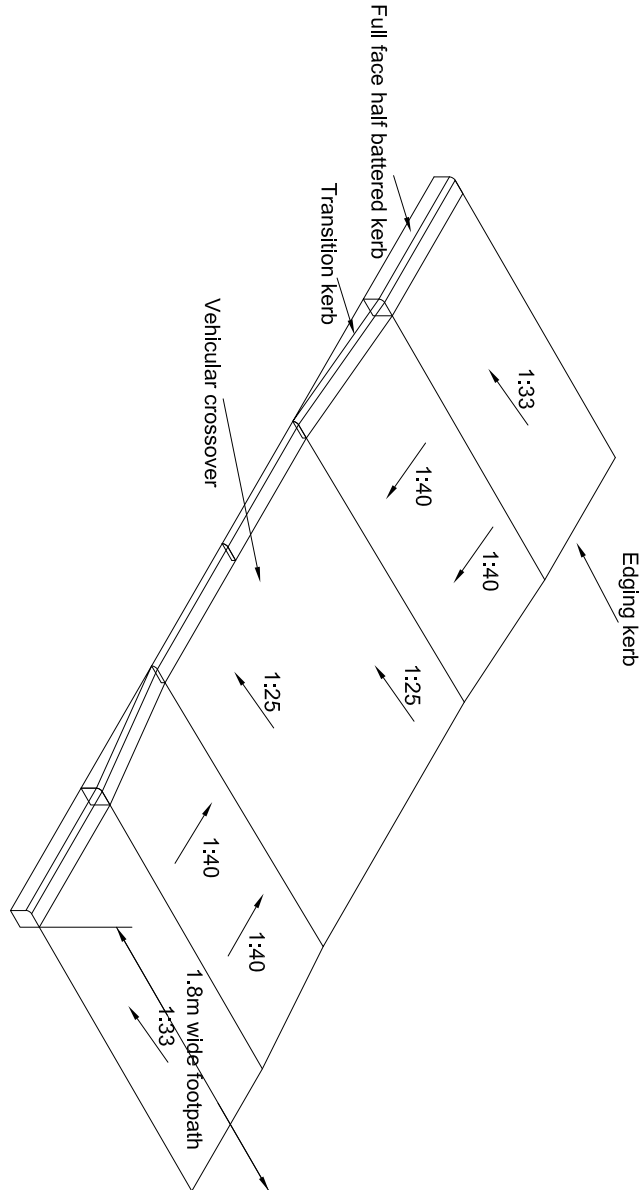
EXISTING
CARRIAGEWAY



FOOTWAY DETAILS

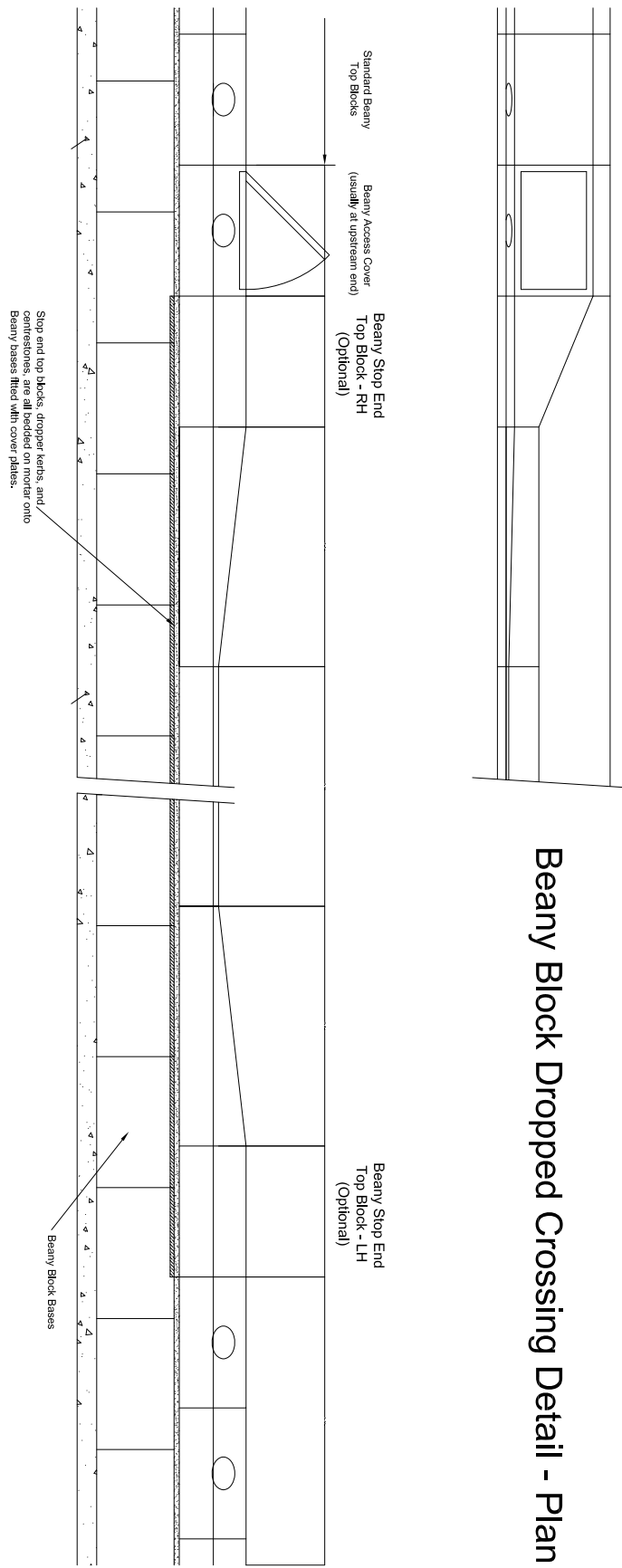
CONSTRUCTION CHART 1 (NORMAL FLEXIBLE CONSTRUCTION)			
SUB-GRADE	SUB-BASE (mm)	WITH GEOTEXTILE	WITHOUT GEOTEXTILE
DESIGN CBR	NOT SUITABLE	NOT SUITABLE	NOT SUITABLE
< 1.5% & SD1 SD0/5	710	NOT SUITABLE	NOT SUITABLE
1.50%	440	NOT SUITABLE	NOT SUITABLE
3%	310	NOT SUITABLE	NOT SUITABLE
4%	300	NOT SUITABLE	NOT SUITABLE
5%	300	NOT SUITABLE	NOT SUITABLE
6-15%	300	NOT SUITABLE	NOT SUITABLE
>15%	300	NOT SUITABLE	NOT SUITABLE

Light Duty Vehicular crossover

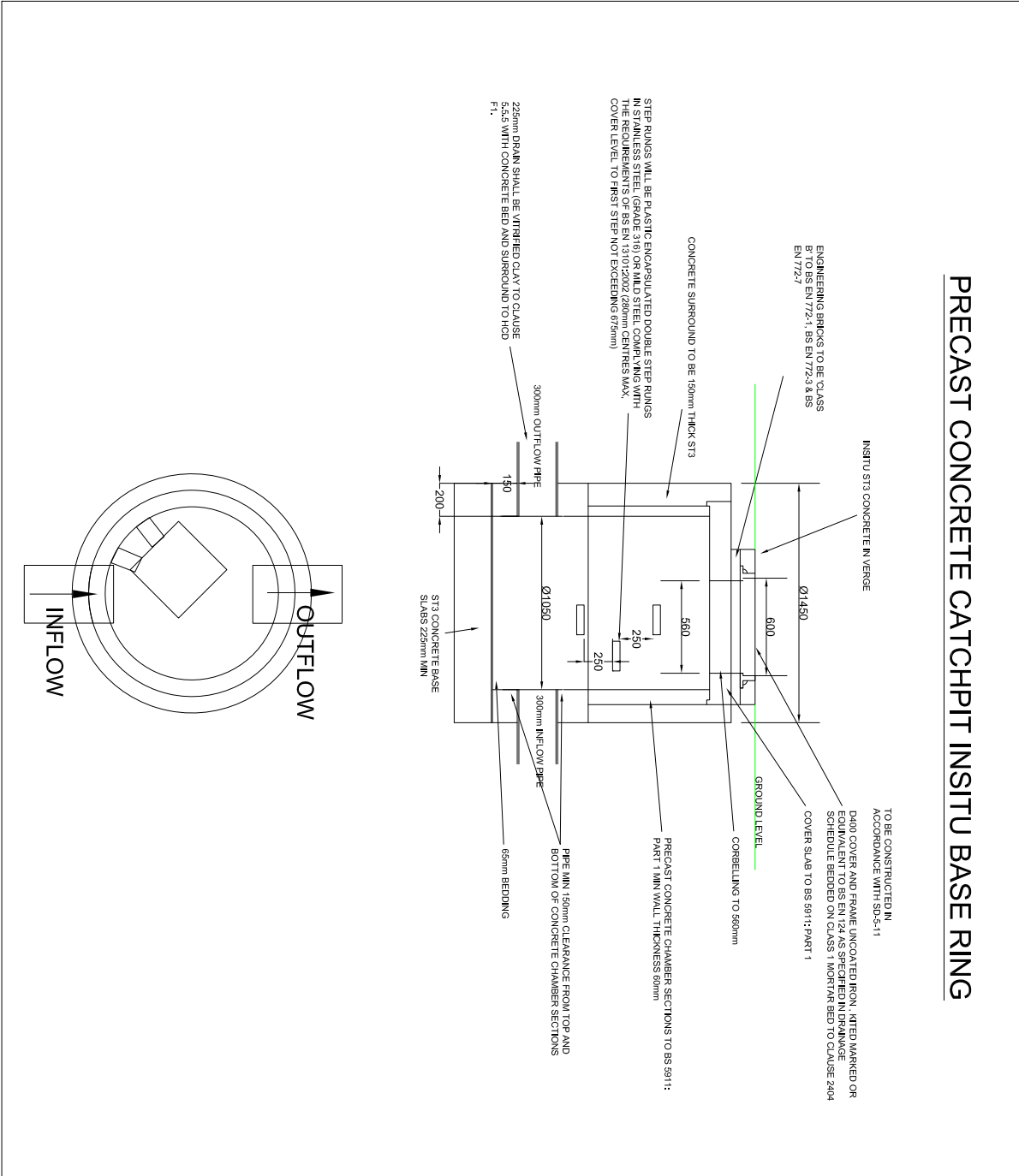


See footway vehicle access notes for construction details.

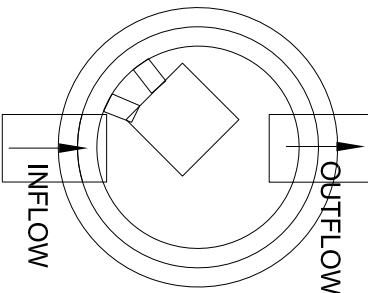
Beany Block Dropped Crossing Detail - Plan



Beany Block Dropped Crossing Detail
- Elevation

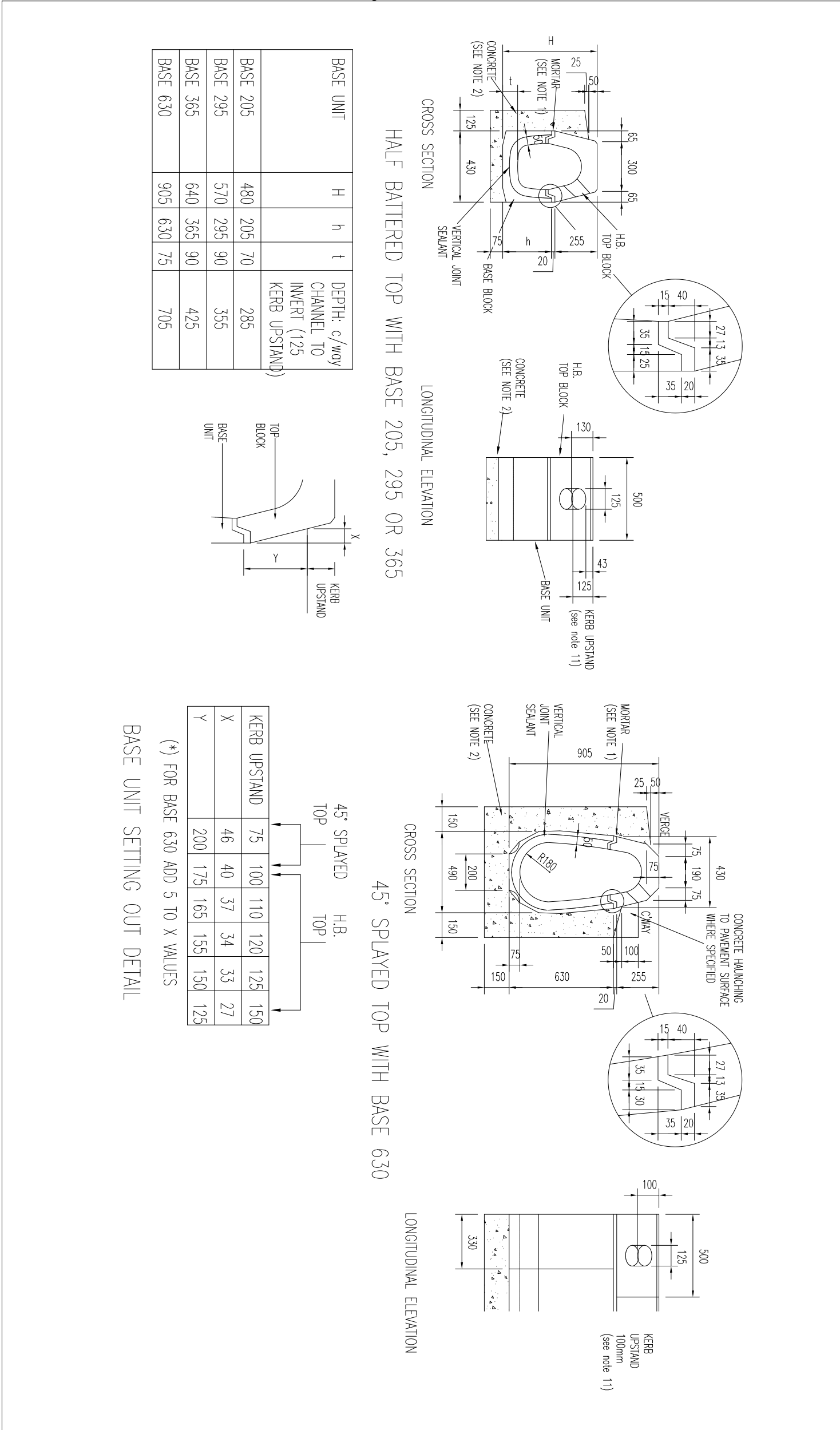
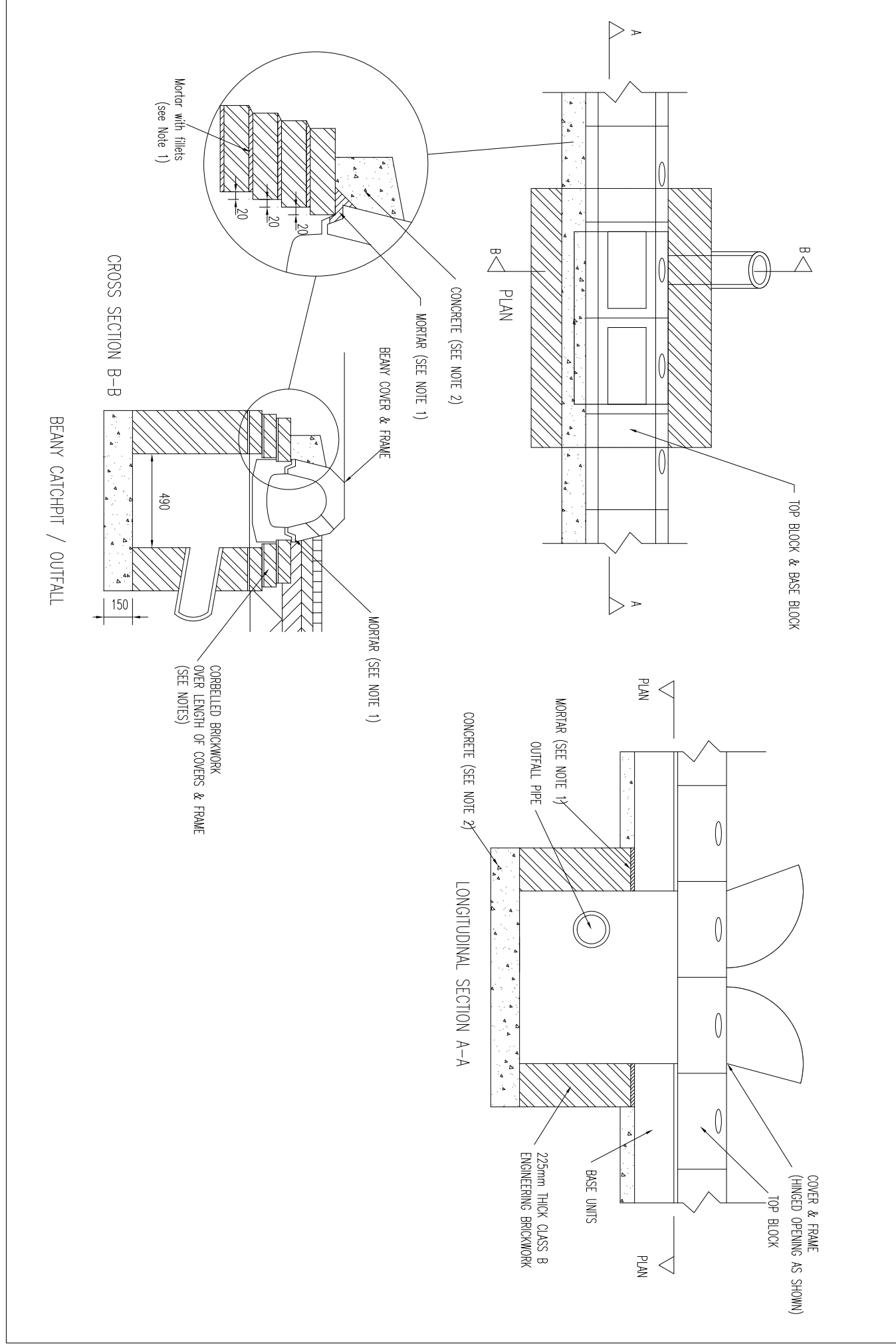


PRECAST CONCRETE CATCHPIT INSITU BASE RING



NOTES FOR BEANY BLOCK DETAILS SHEETS

- DRAWINGS 1 TO 8**
- Mortars shall be:
i) A Mortar class 12 cement mortar to BS EN 998-2 for bedding the Top Blocks
ii) Marshalls' M-Flex for bedding Base Block Outfalls onto the Beany Trapped Gully Unit
iii) Marshalls' M-Flex for bedding the sections of the Marshalls' Trapped Gully Unit sections
 - Concrete bed, haunch and surround shall be:
i) A mix ST1 concrete to BS 8500-1:82 and BS EN 206-1 for Base Blocks used in the normal kerb application
ii) A mix ST4 concrete to BS 8500-1:82 and BS EN 206-1 for Base Blocks used within the carriageway (i.e. where Base Blocks are used with cover plates and are trafficked)
iii) A mix ST4 concrete to BS 8500-1:82 and BS EN 206-1 for Beany Trapped Gully, Silt Traps, Catch Pits and outfall details
iv) The specification for carrier pipe concrete surround is by others
v) Marshalls' Vertical joint sealant, M-Seal, shall be applied to all Base Blocks.
 - For Base 630 applications, all Outfalls, Silt Traps and junctions should be formed by a brick Catch Pit structure:
i) The outfall pipe diameter, gradient, depth to invert, depth of trap shall be by others
ii) The internal dimensions of the catch pit shall be 540 wide x 1000 long for Base 630 applications
iii) Corbelled brickwork with a maximum of 22mm steps shall be used to support the Access Cover and Frames
5. Beany Block Access Covers and Frames are hinged and handed to the direction of the traffic, specified 'nearside' and 'outside'.
6. Movement joint details that fully isolate the Beany Block whilst maintaining restraint shall be provided adjacent to all concrete slabs, even when the slab is covered by other materials.
7. Step End Top Blocks Units are available as left hand (LH) or right hand (RH) for use at transitions to half battered kerbs.
8. For Beany Block with cover plate a minimum of 50mm concrete cover (d) and 100mm of surfacing (D) will be required.
9. All dimensions are in millimetres.



VEHICLE ACCESS CROSSING NOTES

- Surface Course:**
25mm of firm size Dense 70/100 Surface Course (AC 6 dense surf) to Clause 9.4 compacted to a void content within the range 2%-10%.
- Sub-base:**
100mm of Type 1 sub-base to Clause 1.2. Thickness increased to 150mm for vehicle accesses
- Blinder Course:**
100mm of 20mm size Dense, 70/100 Blinder Course (AC 20 dense surf) to Clause 9.1 compacted to a void content within the range 2%-10%. Laid in a single layer.
- Sub-base:**
150mm Type 1 sub-base to Clause 1.2. (NB where CBR value of the sub-grade is below 1.5% an approved geosynthetic layer to Clause 6.7 will be required on the sub-grade).
- Blinder Course:**
100mm of AC20 Dense Bit Rec Blinder Course 40/60 or 100/150 bent to clause 9.1 compacted to a void content within the range 2% - 10%.
- Notes:**
When required a C40/50 or C60/83 tack coat of calcitic bitumen emulsion to BS EN 13068 shall be applied to second with the target surface. The surface should be thoroughly cleaned prior to the application of the tack coat and the emulsion allowed to break prior to the application of a further layer of binder course or the organic matter, roots, etc. shall be removed and replaced with Type 1 sub-base in accordance with Clause 1.2.
- Dense Surface Course: Clause 9.4**
This material shall be AC 20 dense bit rec 20 mm size Dense 70/100 bent to clause 9.1 compacted to a void content within the range 2% - 10%.
- Tack Coat: Clause 9.2**
When required a C40/50 or C60/83 tack coat of calcitic bitumen emulsion to BS EN 13068 shall be applied to second with the target surface. The surface should be thoroughly cleaned prior to the application of the tack coat and the emulsion allowed to break prior to the application of a further layer of binder course or the organic matter, roots, etc. shall be removed and replaced with Type 1 sub-base in accordance with Clause 1.2.

Highway Note

- All materials and workmanship to be in accordance with Lincolnshire County Council and Flood Authority Road Specification and Construction May 2018.
- Footway to be constructed to SD-11-4C.
- Carriageway edge kerbs and concrete edgings to the rear to be constructed to SD-11-2.
- All vehicular crossings are to be constructed to LCC Light Duty (Domestic) crossings.
- Mainholes to SD-5-11 with D400 cover and frame.
- Back fill to pipes within the carriageway, footway, or access shall be Type 1 to clause 5.13.4 otherwise as raised to 5.13.3.



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TITLE
West Drove South Gedney Hill, Spalding
Lincolnshire Section 278
Highway Construction Details

ORIG	DATE
J.T.C	February 2019
CHKD	SCALE
APPR	N.T.S @ A1
REV	DRAWING NO
	2312-99

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TIE IN DETAIL

