

NOTES

- All dimensions are shown in mm, unless otherwise stated and levels are in metres to an arbitrary datum.
- This drawing is to be read in conjunction with all other drawings and standard documentation.
- C40/50 concrete mix (C18-V) as per BS 8500-1:2006 for all precast units
- Chamfers around voussoirs to be 15mm and remainder of precast units to have chamfer of 25mm
- Surface finish on exposed faces of flexArch units=F3
- Surface finish on top of flexArch unit and to base of cill = U2 Top surface of cill is also to be left roughened
- Nominal cover to Reinforcement 60mm + 5mm unless noted otherwise
- S/S Projected U bars to be cast into back of spandrel wall units to tie into backfill concrete.
- Bridge deck waterproofing and workmanship to comply with SHW Series 2003 and 2005.
- Steel floated (U4) finish required to top of C20/25 in-fill concrete to take waterproofing.
- SN Concrete with 1800kg/m³ density can be achieved using a combination of cement, sand and a highly air-entrained chemical mixture. The following guideline mix can be used.

4-8 N strength (28 days)			
Concrete Sand (0/4)	1350 Kg		
CEM I	250 Kg		
Water	200 L		
Foaming agent	5L per 6m ³ load		
	(Larflow FC or similar)		
Hardened density in region of 1800kg/m ³			

- Concrete in-fill should be completed as per Macrete's Guidance Notes.
- Prior to any excavation, the contractor should consider propping the existing bridge to prevent movement during the works.
- Great care is required when excavating close to the existing foundation in order to prevent scour or loss of soil from below it. If this occurs concrete should be placed in any void formed.
- A series of plate bearing tests should be carried out during the foundation works to confirm the allowable bearing capacity of the soils.
- Non-Shrinkable cementitious grout of min 50N/mm² compressive strength to be used to fill the dowel holes and the gap between the cill units/spandrel walls and foundation. 24hrs to be allowed for grout to set before placement of arch units.
- All stainless steel to BS EN 10088-3 Grade 1.4436, EN Standard steel name² X3CrNiMo17-13-3

FOR
APPROVAL

REVISION DETAILS	BY	DTE	AMENDMENT

MACRETE

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28/04/2006

Precast Concrete

PROJECT:
MELKSHAM LINK - TOW PATH BRIDGE

TITLE:
DETAILS OF FLEXARCH BRIDGE UNITS

SCALE:	DATE:	DRAWN:	CHECKED:
@A1 1/50 UNO.	09/02/12	DWC	-
DRAWING NO.	REVISION NO.		
MACRETE/MELKSHAM LINK/04	-		

END SECTION OF BRIDGE SHOWING PRECAST DETAILS

ELEVATION OF SPANDREL WALLS

CLADDING OPTION 1
PRECAST CORBEL DETAIL
1:10

CLADDING OPTION 2
PRECAST CORBEL DETAIL
1:10

SIDE ELEVATION SHOWING SPANDREL WALL CONNECTIONS NTS