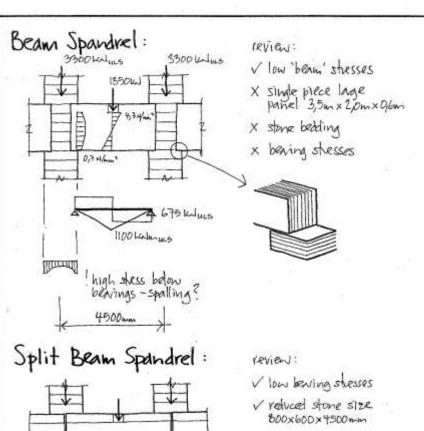
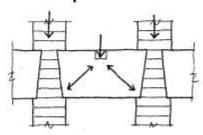
# Other Sketches Book

June2012





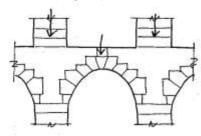
### Arch Spandrel:



#### review:

- V low and stresses
- V reduced bearing stress
- X large state piece 3790×2000×600mm
- x stone bedding

#### Stone Arch:



#### review:

- V equal distribution of stresses
- V small stare pieces
- similar stone bedding
- X high stall content and stow an after
- X high proportion of mader Joints

- V similar stone bedding
- X high'beam'shesses
- x rotation/prying at supports

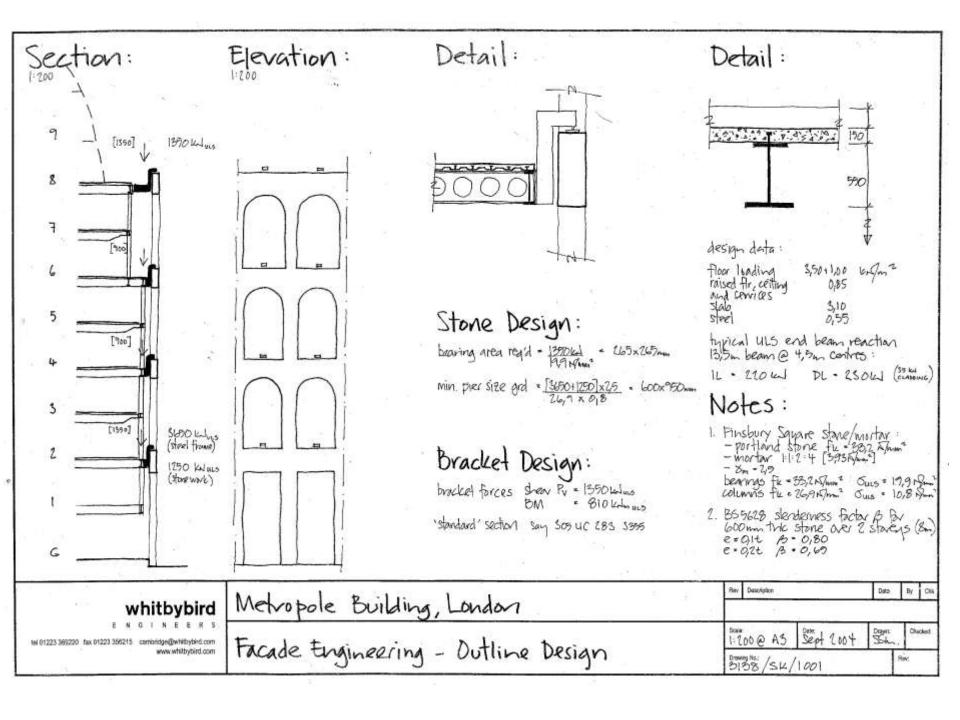
Portland Stone:

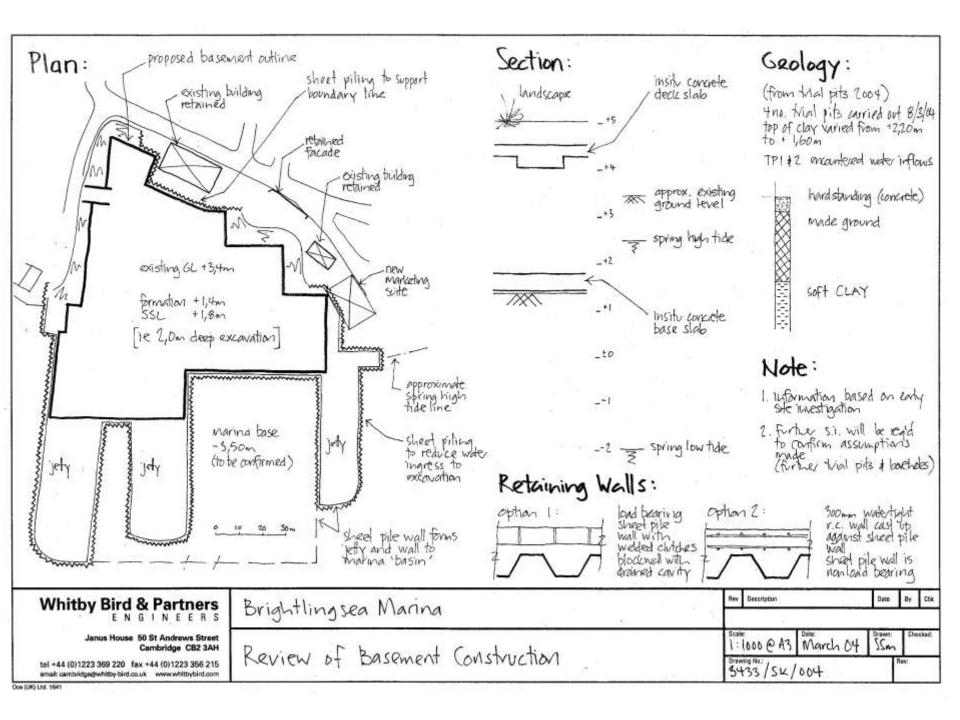
tinsbury Square Stone/Mortar stone - fre 33, 200/mm whortar - 1:1:2:4 (59 55mm2)

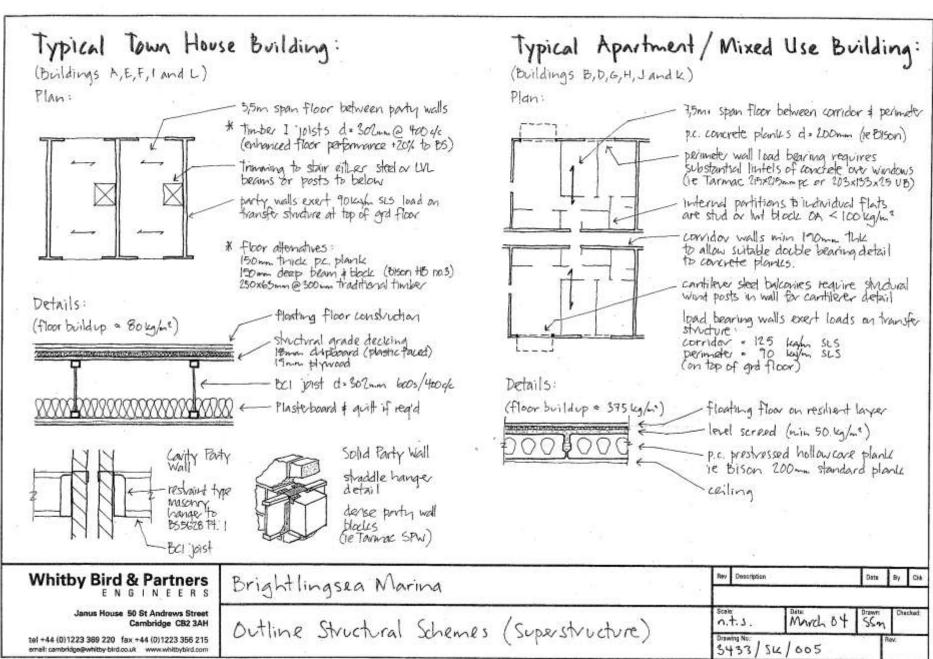
### whitbybird

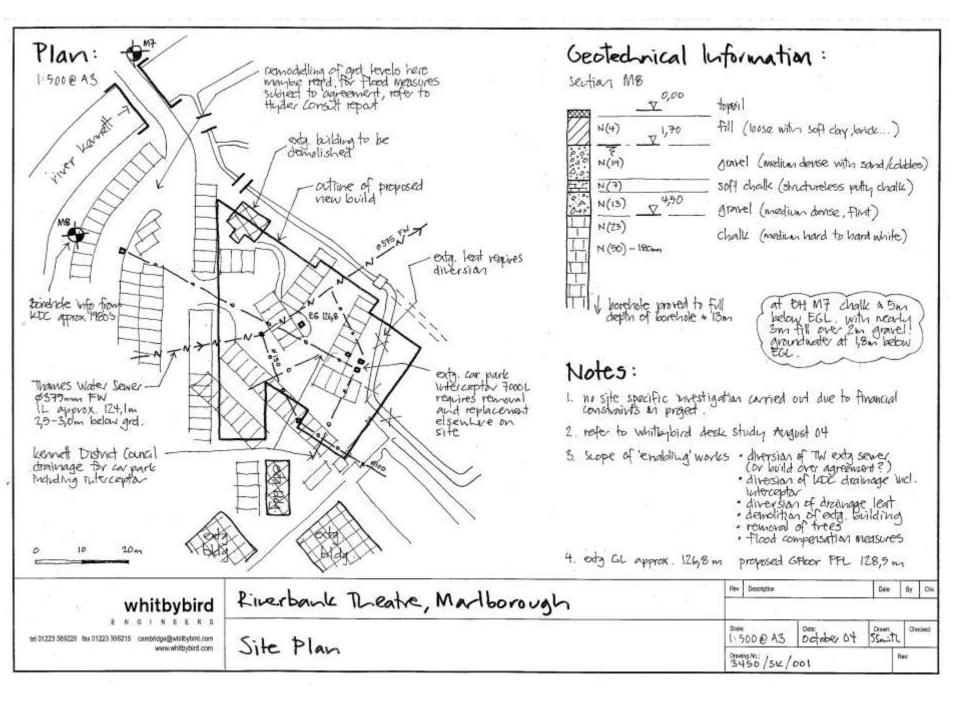
tel 01223 369220 fax 01223 356215 combridge@whitbybird.com www.whitbybird.com Metropole Building, London

Facade Engineering - Spandrel Options

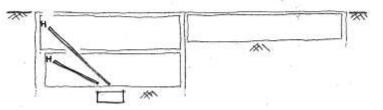






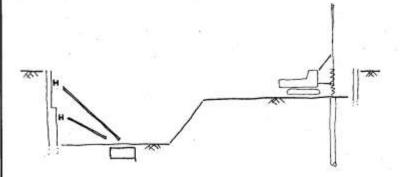


### Demolition



- I demolitian down to ground level. 2. Install temporary works (walings and raking props). 3. demolitian of grad floor and remaining sub-skruture.

### Secant wall installed



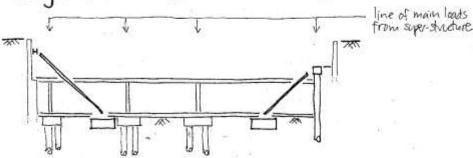
- 1. Install high level piling mod. 2. localised sheet piling to enable uniform piling level. 3. Install secart piled mall 4. Cast piled wall capping beam

### Bulk excavation



- 1. bulk excavation leaving berm infront of second wall. 2. install raking props to second wall. 3. remove berm infront of second wall.

## Piling and r.c. works to substructure



- 1. Install main piles to building. 2. cast r.c. pile caps and lower stalo. 3. cast r.c. suspended stab around raking props. 4. once r.c. stab is complete, lower watings and raking props can be
  - removed

### whitbybird

tel 01223 369220 fax 01223 356215 combridge@whitbybird.com

30 Crown Place

Basement Structural Scheme (sheet 3)

1:230 to AB

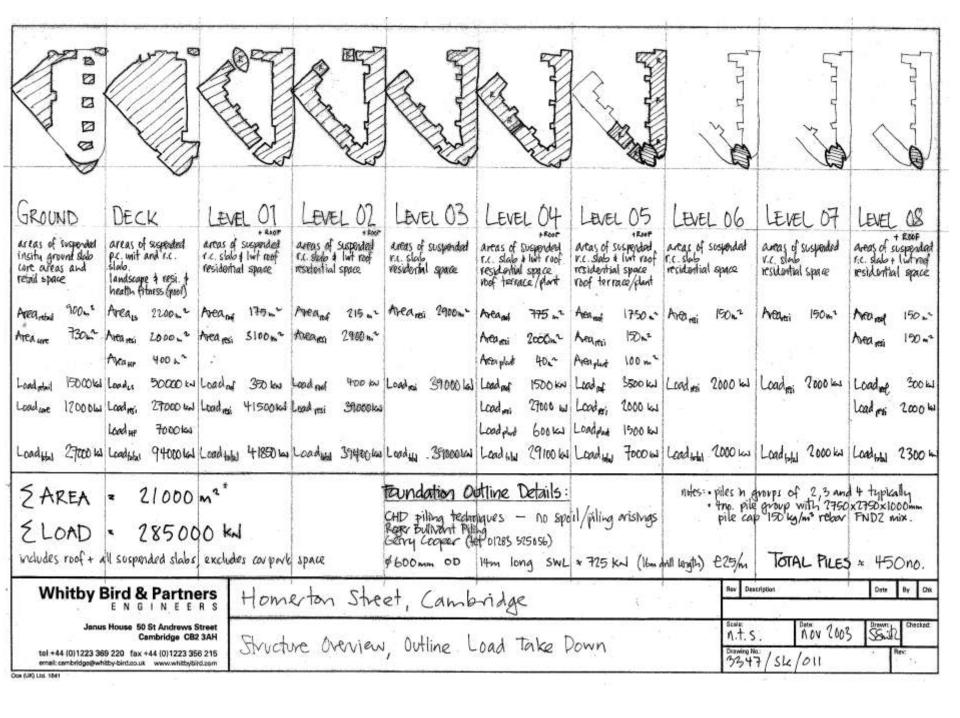
Ray Description

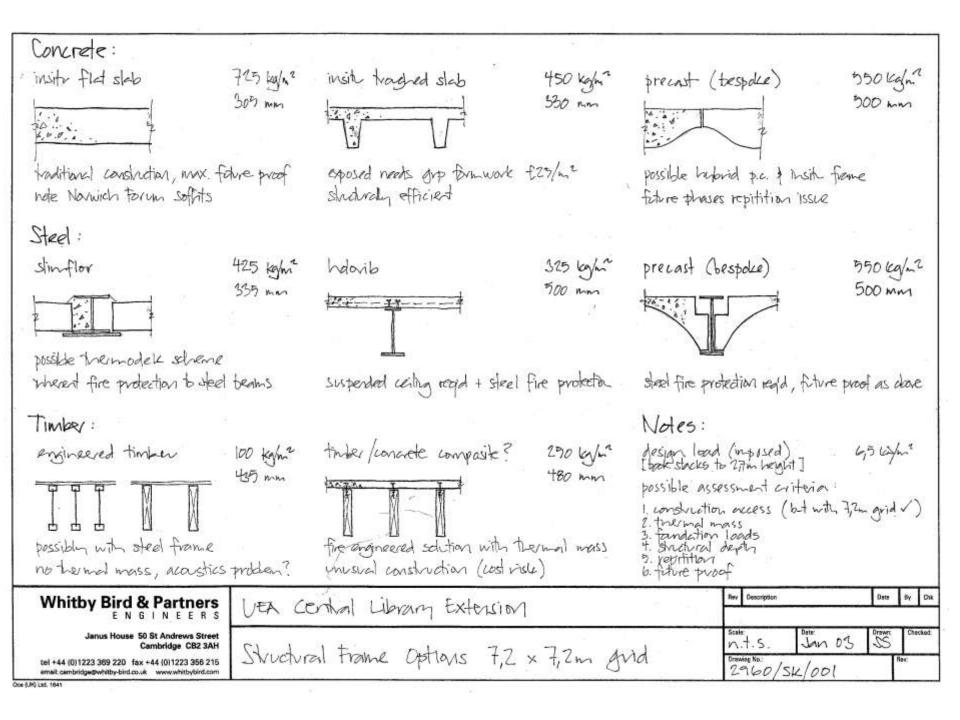
Checketh June 2005

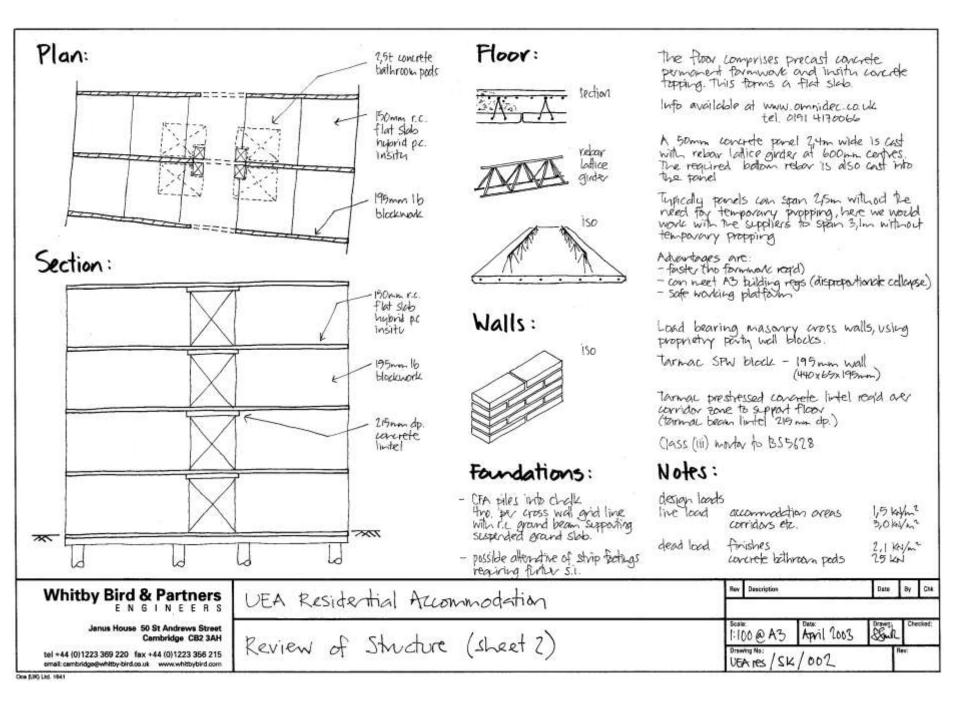
By

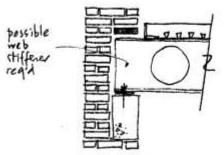
line of main loads

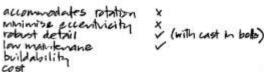
5434/SK/1007

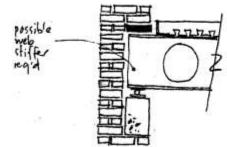






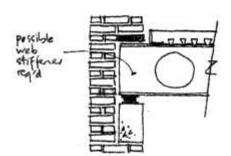






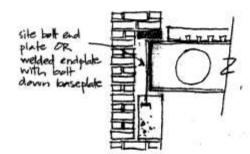
accommodates rotation minimise eccentricity robust detail low maintenance X buildability

#### Proprietry Bearing



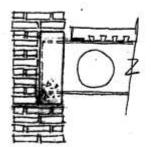
accommodate rotation Minimise eccentricity low maintenance trildability cost

#### Thin Endplate

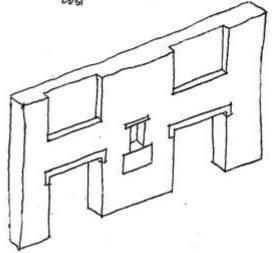


accommodate rotation minimise eccentricity robust detail low maintenance buildability cost

not: possible lack of lateral restaunt to wall



accommodate rotation minimize eccentricity robust detail low mantenance x (not maintainable) buildability cost



- Main issues that bearing detail must address:
  accomplate support rotation
  minimise eccentric loading to wall
  provide robust detail (redisprotionale collapse)
  law mantenance detail (vertilated bearing)

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