section 6
section 7
section 1
section 2
section 3
Caldershaw Centre
Development Site
Hatched area reduced to 151.95 formation level.
Hatched area reduced to 151.95 formation level.
Unmade
ex structure to be carefully dismantled & then area assessed for suitability for new unit
ex cable to be identified & diverted if reqd
6-6.6 kV cable
6-6.6 kV cables in ducts
Locally feather in.
compacted granular fill.
RE top rear face
RE base rear face
RE base lvl 148.00
RE base lvl 148.50
RE base lvl 149.00
RE base lvl 149.50
RE base lvl 150.00
RE base lvl 150.50
Front edge of RE top
Front edge of RE base
exg 300 x 300 masonry culvert line and location unknown
150 perforated drain to new MH
u/g chamber, CL 147.1, IL 142.85
exg 150mm dia pvc land drain line and location unknown
assumed line of ex 900 dia stone culvert
ex culvert to be identified & incorporated into new drain system
Water seepage from from bank
150 perforated drain
drain terminated to rear of ex wall
RE to be continued @ 149.00 lvl to rear of ex wall
900 dia pcc culvert (depth & posn estimated)
900 sq stone culvert (depth & posn estimated)
stone /brwk MH a.2000x1200, IL 3900 bGL
hatched area graded to kerb edge
LV cable
125 PE LP gas
Wall
I/R
Concrete
hatched area, lvls reduced to 151.95
compacted granular fill
formation 151.95
reinforced earth bank
formation 149.00
150 dia perforated DVC or Conc drain
2,500
re-grade suitable for car parking
depth of elec cables to be confirmed & protected as reqd by Elec NW
900 dia PCC culvert IL a146.5
900 high stone culvert IL a146.5
reinforced earth infill to rear of ex masonry wall
formation 148.50
palisade fence
new SW MH
150 DVC or Conc drain
new 1200 dia pcc MH
152.417
ex chamber infilled with clean inert granular material to W end & MH formed to E end
chamber roof partially removed to provide access
provide s/s ladder into chamber
break out ex chamber roof to form new MH shaft
chamber infilled with clean inert granular material
440 d bl/wk wall off chamber base to roof lvl
new 1200 dia pcc MH built onto ex u/g chamber
New MH to Existing Underground Chamber
top front face of RE bank
intermediate 500 long Tensar TX150 geogrid @ 500crs
compacted 6F2 granular material
top of rear face to RE
compacted 6F2 granular fill to reinforced earth bank level
galvanised steel mesh facing @ 3:1 slope, 700crs, returned in to bank nom 700mm, min longitudinal overlap 100mm
varies
HDPE bodkin ties see spec
Tensar RE510 geogrid @ 500 crs
turf lining to inside of mesh face
base of rear face to RE
nlt 500
infill & make good GL to base
2500
typical reinforced earth bank detail (nts)

GENERAL NOTES.

0.0 THIS DRAWING IS COPYRIGHT AND IS SENT TO YOU IN CONFIDENCE IT MUST NOT BE COPIED, USED OR DISCLOSED, IN WHOLE OR IN PART, TO THIRD PARTIES WITHOUT WRITTEN PERMISSION. IT REMAINS THE PROPERTY OF TJBA AND MUST BE RETURNED ON REQUEST.
0.1 THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACTUAL DOCUMENTS.
0.2 For site datum refer to Survey Systems topographical survey Reproduced on Messres Ferguson Developments drg no. 2782.02.
0.3. All dims in mm unless o/w stated.
0.4. SOP from corners of existing building to proposed steelwork grid as shown on Phase 1 Earthworks Plan & Sections drawing.
1.0 WORKMANSHIP
1.1 All workmanship and materials to comply with Building Regulations British Standards and Codes of Practice. All materials to be stored, mixed and fixed in accordance with manufacturers instructions and recommendations.
1.2 All provisions for temporary means of support and regulations for Health & Safety at Work to be complied with.
1.3 All works to be carried out to the complete satisfaction of the Local Authority Building Control Officer.
1.4 All works to be carried out in strict accordance with HSE guidance and CDM regulations.
1.5 Do not scale the contractor must verify all dimensions prior to commencing shop drawings or work on site.
1.6 All services above and below ground to be located, identified, de-commissioned, diverted or protected as necessary prior to and during the course of the work and reinstated on completion, fully in accordance with relevant codes of practice and statutory undertakers requirements.

SEQUENCE OF WORK.
PHASE 1 identify culverts & drains & install temp diversions
excvn & constrn of RE embankment & gen backfilling
reduced level excvn of site to 151.95 maOD
PHASE 2 installation of vibro piles to prepared grid
regrade site to 151.95 lvl.
install u/g drainage systems & services
PHASE 3 constrn of ground beams
infilling ground beams to slab subgrade lvl
PHASE 4 erection of steel frames, masonry walls, roof & elevation cladding
constrn of floor slabs
constrn of external kerbs, slabs & finishes

2.0 PHASE 1 EARTHWORKS.
2.1 not used.
2.2 Proposed reinforced earth bank: for detailed specs refer to Tensar Greenslope Earth Retaining Systems Construction Sequence, ref: CS/Greenslope/28.07.11; and Model Specification, ref: MS/Greenslope.
2.3 Materials: Fill – 6F2 granular material complying with DOT Table 6/1. Geogrid – Tensar RE510, Facing – formed galvanised steel fabric mesh, nom 3mm dia, 50x50 aperture. Backfill – selected granular material.
2.4 Formation: bear on to firm/stiff sandy CLAY, SBP nlt 150kN/sqm. Soft spots to be removed and replaced with compacted 6F1 Granular fill.
2.5 Dimensions: as shown on dwg. face slope 10 deg to normal.
2.6 Reinforced earth bank to be to be built longitudinally in sections to suit contractor and to levels shown on drawing.
2.7 Facing units to be galvanised steel mesh nominally 500 high built up in sections, returning in to bank nominally 700mm. Overlap longitudinally by nlt 100mm.
2.8 Tensar RE510 geogrid reinforcement to be placed at nom 500crs in line with top & bot of steel grid face.
2.9 Extra 500mm lateral Tensar TX150 geogrid reinforcement to be placed at 500crs to centre of steel grid face as shown on dwg.
2.10 Geogrid to be tied to steel grid with HDPE bodkin ties.
2.11 Place nom 50th turf to inside of steel mesh facing to provide suitable grass finished look to outer face, goetextile to back of turf.
2.12 Reinforced earth bank to be filled with inert 6F2 granular material compacted in accord with MCHW cl 612, behind turf facing and between geogrid layers.
2.13 Ground between RE & ex slope to be filled with compacted 6F2 granular fill OR excavated to levels shown on dwg. Ground behind existing mill wall to excavated to 149.00 & infilled with RE as per slope omitting intermediate grids & facing.
2.14 External works to Ground Beams to top of RE embankment to receive gabion baskets width suit top of embankment. Gabions baskets to be faced with hand placed masonry & filled with 6F2.
2.15 Any underground services to be rerouted as per architects drawing/details.

estimating

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AMENDMENTS/ ISSUES

ISSUE	REASON/ CHANGE	DATE	BY
p2	detail developed, util records added, culvert infilled	oct 14	tjb
p1	vibro pile scheme, units 9,10&11 added	oct 14	tjb
p0	units 9, 10 & 11 omitted, original for estimating	aug 14	tjb

IQBAL / CALDERSHAW CENTRE

Phase 1 Earthworks Plan & Sections

FILE NAME dwg-tjba-iqbal-caldershaw centre-040913.dwg

SCALE: 1 : 100 @ A0