

DRAWING NUMBERING	SECTION & DETAIL NOTATION
100 Series - Layouts / ID/D Drawings	201A Denotes Section A on drawing 201
200 Series - Sections	301B Denotes Detail B on drawing 301
300 Series - Details	
500 Series - Fabrication Drawings	

- GENERAL NOTES**
- All dimensions are in (mm), Levels in (m), Weights in (kg).
 - This drawing should **NOT** be scaled from: This drawing should be read in conjunction with a relevant site specific, Safe System of Work (SSoW).
 - For further information on MGF products (including risk assessments, technical information and guidance for SSoW), visit www.mgf.ltd.uk.
 - MGF recommend that the temporary works are inspected before each working shift by a competent person. (Normally the temporary works coordinator or supervisor).

LEGEND
Possible Location of Restraining Chains
**kN/m Design Surcharge

TRENCH SHEET DETAILS
MGF KKD 600/8 Trench Sheet
Weight = 50.0kg/m

WEIGHTS SCHEDULES

Frame (F1)	
Component	Weight
4.00m MD Steel Waler	129kg
Strut Assembly	13-73kg*
Assembly	284-404kg*
*weight varies with strut config. (Ø 56mm to 3.00m width)	

MGF 203UC Brace	
Component	Weight
4.00m Extension	380kg

MGF 200 Series	
Component	Weight
250kN Hydraulic Ram	105kg
End Cleat	35kg
0.25m Strut Extension	40kg
0.50m Strut Extension	52kg
1.00m Strut Extension	76kg

RESIDUAL RISKS

- A. Ground Conditions**
If ground conditions or groundwater level vary from those shown on this drawing then seek advice from MGF DSL before proceeding.
- B. Unplanned Excavation (Over-dig)**
This design has Not considered an overdig allowance.
- C. Surcharging of Material**
Customer to avoid surcharging excavation with spoil or other plant/materials (Max 10kN/m²).
- D. Services**
Care should be taken to prevent damage to existing services. Exposed services should be suitably supported.
- E. Working At Height / Safe Access & Egress**
Suitable edge protection and means of safe access & egress must be provided.
- F. Trench End Support**
It is the responsibility of the Customer to ensure that a competent person (Suitably Qualified & Experienced Person) carries out a site specific risk assessment on the unsupported faces at either end of the trench to assess its stability and to determine a suitable batter / stepping of the ground prior to commencement on site.
- G. Structural Base Heave**
The presence of low strength soils and the residual risk of encountering very poor soils at formation level provides potential for structural base heave. The customer should monitor the base of the excavation, and if heave begins to occur then the customer should immediately backfill the excavation with 1.00m of fill and seek further advice.

IF IN DOUBT ...ASK!

A3	Ground Conditions, Excavation Width, Frame Levels, Struts, Backfill Sequence Amended	15.06.18	Patrick Marshall	Jacobus Myburgh	Richard Lawrenson
A2	Plan Dimensions & Installation Amended	07.02.17	Duncan Knights	Chris Atherton	Richard Lawrenson
A1	For Approval	18.01.17	Duncan Knights	Sam Cox	Richard Lawrenson
Issue	Issue Description	Date	Designed	Drawn	Checked
Issue	Status				

FOR APPROVAL

MGF EXCAVATION SAFETY SOLUTIONS
Design Services Ltd
Commitment • Innovation • Sustainability
design@mgf.ltd.uk | www.mgf.ltd.uk | 01942 402 704

Customer
Forkers Ltd
Civil & Ground Engineering Contractors

Site
Albany Street, Newport, NP20 5JL

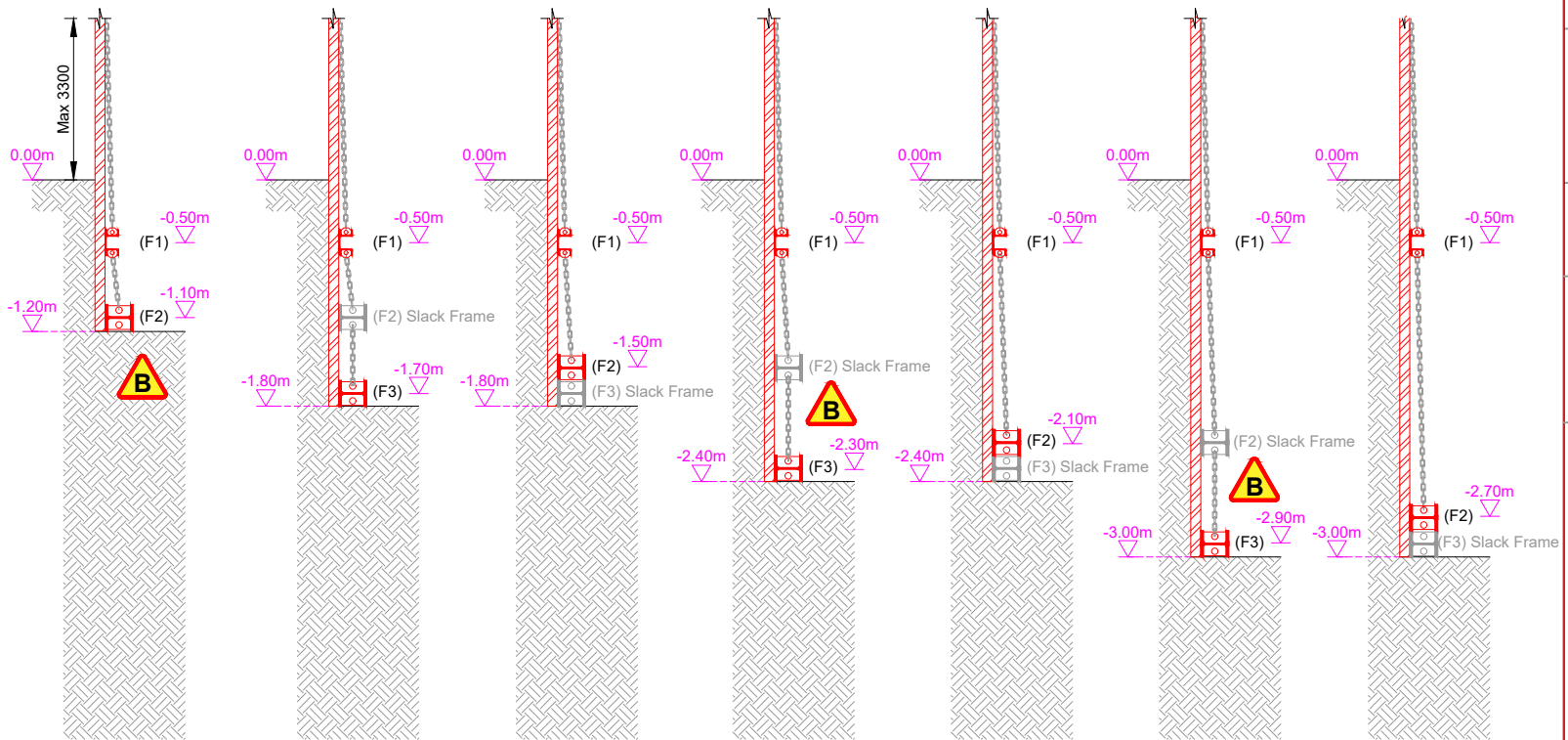
Scheme
Trench Run SW1-SW2, SW2-SW3

Drawing Title
Temporary Cofferdam

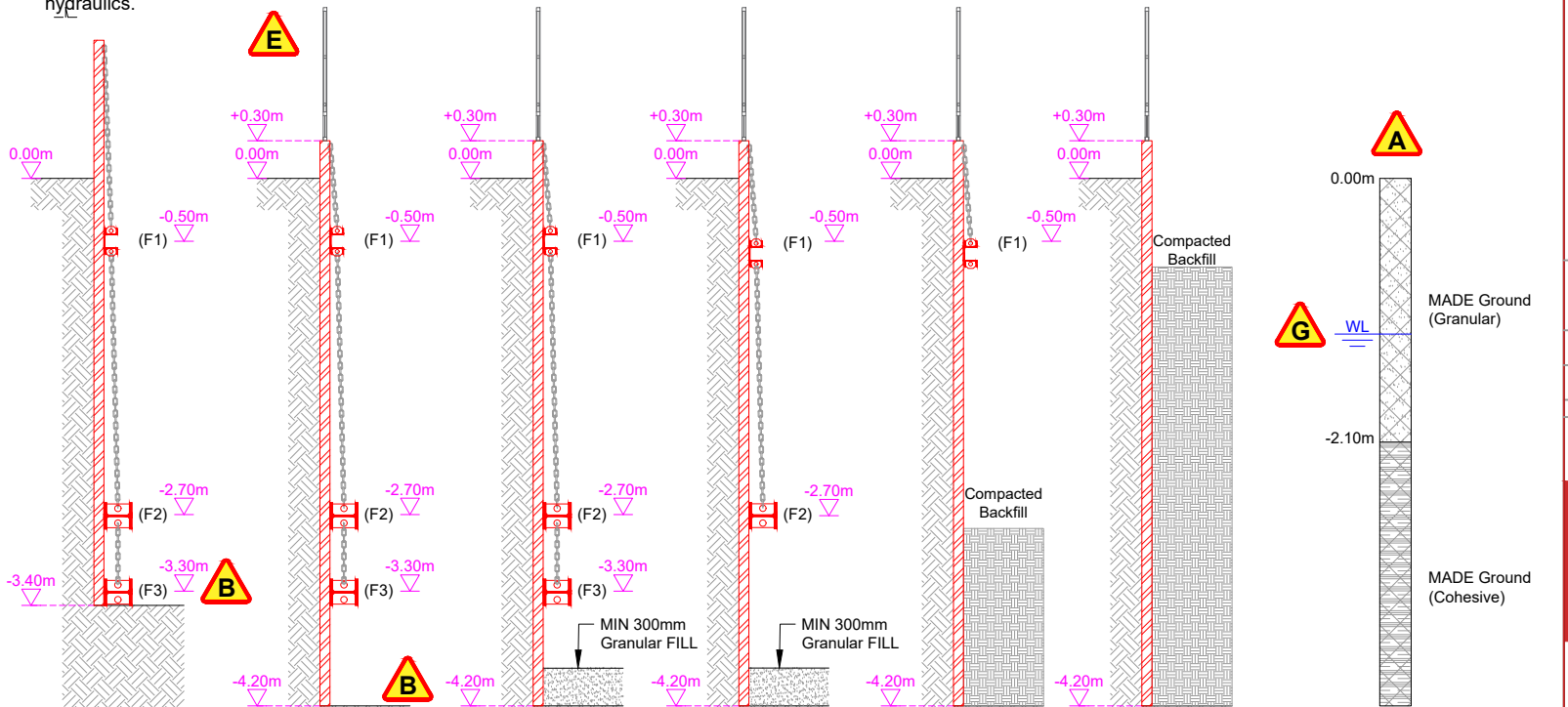
Drawing No
45241-100

Rev
A3

INSTALLATION SEQUENCE - DUG & PUSH LOWERING FRAMES METHOD



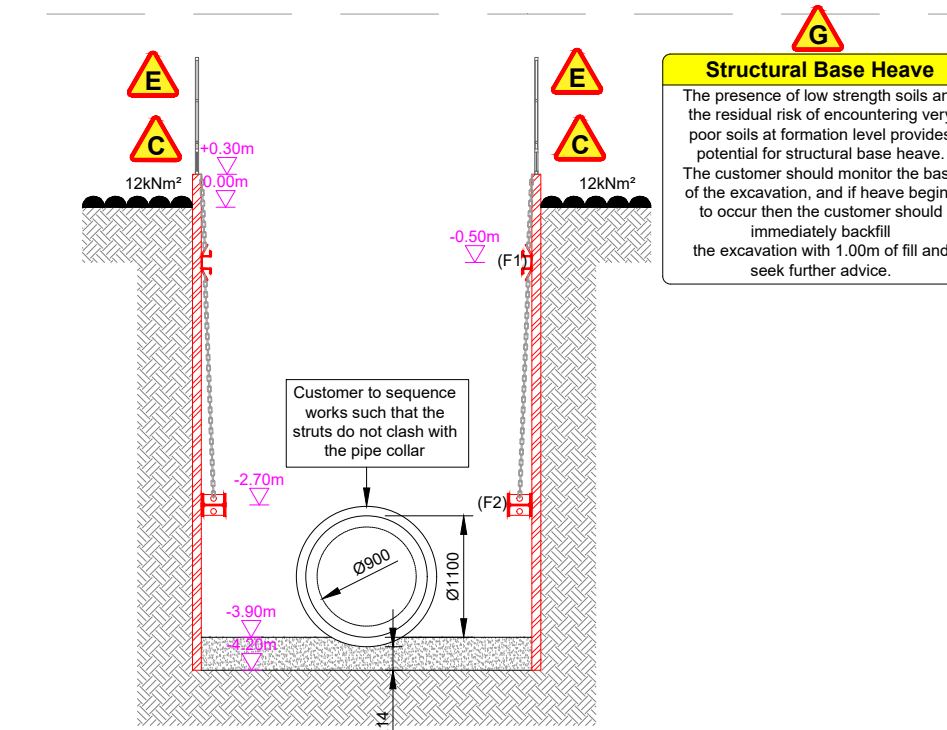
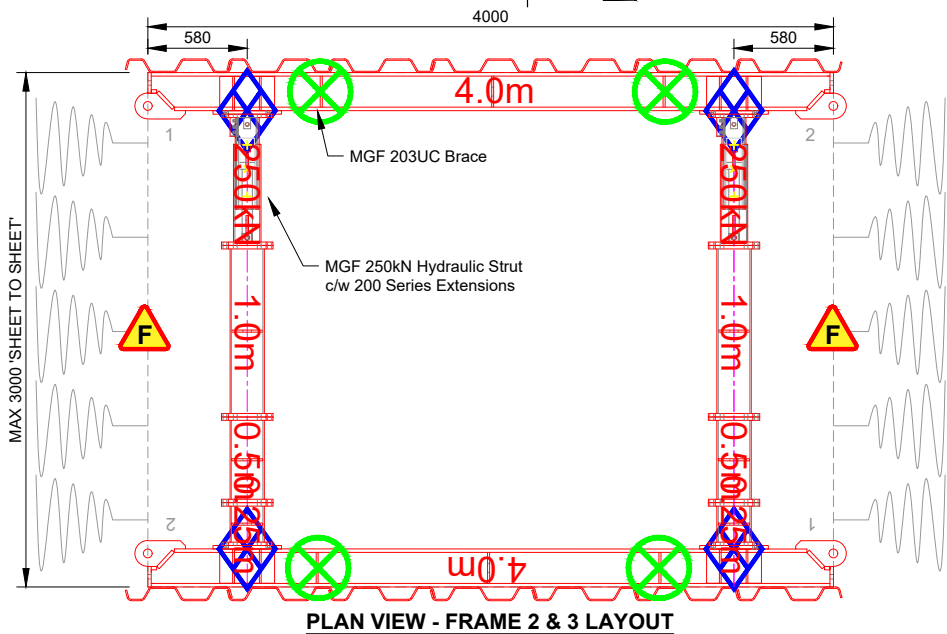
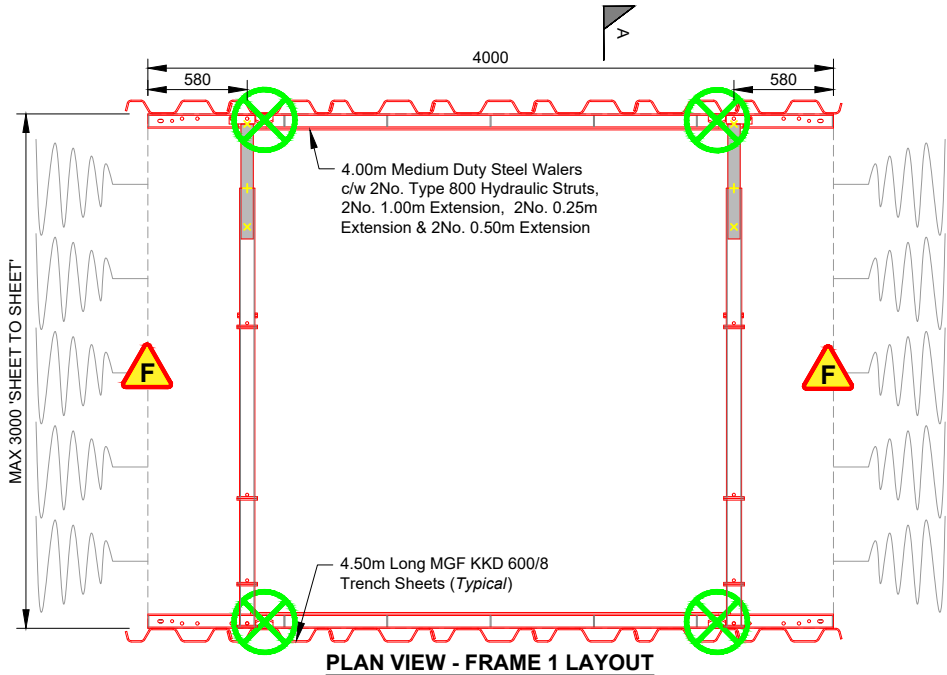
- STAGE 1**
- Excavate to -1.20m, place frames into excavation & use as piling frames & pitch sheets.
 - Pump out (F1) at -0.50m & lock off hydraulics.
 - Pump out (F2) at -1.10m & lock off hydraulics.
- STAGE 2**
- Dig & push to -1.80m.
 - Insert (F3) at -1.70m & pump out & lock off hydraulics.
 - Depressurise (F2).
- STAGE 3**
- Lower (F2) to -1.50m & pump out & lock off hydraulics.
 - Depressurise (F3).
- STAGE 4**
- Dig & push to -2.40m.
 - Lower (F3) to -2.30m & pump out & lock off hydraulics.
 - Depressurise (F2).
- STAGE 5**
- Lower (F2) to -2.10m & pump out & lock off hydraulics.
 - Depressurise (F3).
- STAGE 5**
- Dig & push to -3.00m.
 - Lower (F3) to -2.90m & pump out & lock off hydraulics.
 - Depressurise (F2).
- STAGE 6**
- Lower (F2) to -2.70m & pump out & lock off hydraulics.
 - Depressurise (F3).



- STAGE 7**
- Dig And Push to 3.40m.
 - Lower (F3) to -3.30m And Pump out and Lock off hydraulics
- STAGE 8**
- Dig & Push to formation level (-4.20m)
- STAGE 8**
- Lay a minimum of 300mm of compacted granular fill before removing (F3)
- STAGE 9**
- Remove (F3).
- STAGE 10**
- Backfill to the underside of (F2) & remove (F2).
- STAGE 11**
- Backfill to the underside of (F1) & remove (F1).

SOIL PROFILE BASED ON REF: WS01, WS02 & WS03
(Groundwater Anticipated @ -1.24m)

A3



SECTION A-A

A3