

32.50
RET-RET-RET-
31.60

DENOTES RETAINING STRUCTURE AS CLIENTS
 STANDARD DETAILS RETAINED HEIGHTS ARE
 FOR RETAINED DEPTH ONLY AND DO NOT
 ALLOW FOR HANDRAIL OR PARAPET WALL
 HANDRAILS/BALLUSTRADES AS CLIENT DETAILS
 TO COMPLY WITH APPROVED DOCUMENT

DENOTES DEPTH OF FACING
BRICKWORK IN ADDITION TO
STANDARD 150mm BETWEEN FFL/DP
AND FLAG LEVEL

DENOTES LOCATION OF FLAG ON
EDGE MAX. RETAINED HEIGHT

CLASS A LINEAR DRAINAGE CHANNEL

CLASS B LINEAR DRAINAGE
CHANNEL

CLASS C LINEAR DRAINAGE
CHANNEL

DENOTES LOCATION OF FENCE &
GRAVEL BOARD MAX. RETAINED
HEIGHT 550mm

DENOTES FINISHED GROUND / SURFACE
LEVEL

GRADIENTS
ACCESS RA

6.14 1 in 15 max. GRADIENT OVER
MAXIMUM DISTANCE OF 10m 1 in 12
max. GRADIENT OVER A MAXIMUM
DISTANCE OF 5m

DENOTES SITE BOUNDARY LEVEL
FROM TOPO. SURVEY

DENOTES BATTER SLOPES

ACCESS RAMP AS ABOVE BUT FORMED
TO SHAPE USING DRIVEWAY SURFACING
MATERIAL

DENOTES EXTERNAL STEPS (AS PER
APPROVED DOCUMENT M Section 1.8.)
150mm MAX RISE
300mm MIN. GOING

WITH HANDRAILS FOR 3 OR MORE STEPS OR
WHERE MORE THAN 600mm HIGH BRICKWORK
& CAPPING TO SIDES OF STEPS FOR 2 OR

YARD GULLY TO CONNECT TO PRIVATE
SW SYSTEM

RETAINING FEATURES AND STRUCTURES SHOWN ON THESE DETAILS ARE PROVIDED TO INDICATE THE LOCATIONS IN WHICH SUCH FEATURES WILL BE REQUIRED.

IT IS INCUMBENT UPON THE CLIENT TO ENSURE THAT THEY CONSULT WITH THEIR STRUCTURAL ENGINEERS FOR THEM TO PRODUCE THE RELEVANT RETAINING FEATURE DESIGNS AND CALCULATIONS IN ACCORDANCE WITH RELEVANT GUIDELINES AND COP'S

TO CATER FOR ANY DEVIATIONS IN THE AS
CONSTRUCTED ROAD / FOOTPATH LEVELS IN
RELATION TO THE DESIGN LEVELS, THE PROPOSED
FLOOR LEVELS SHOWN MUST BE CHECKED ON SITE
BY THE SITE AGENT OR ENGINEER IN RELATION TO AS
BUILT ROAD LEVELS TO ENSURE COMPLIANCE WITH
PART M OF THE BUILDING REGULATIONS

FOUNDATIONS TO BE DESIGNED / CONSTRUCTED TO
TAKE INTO ACCOUNT THE PROXIMITY AND DEPTH OF
ADJACENT SEWERS AND DRAINS

CONTRACTOR/CLIENT SHOULD NOTE THE EXISTENCE OF EXISTING BURIED PLANT AND OR OVERHEAD POWER CABLE(S) BEFORE WORK COMMENCES CONTRACTOR MUST UNDERTAKE RISK ASSESSMENT AND PROVIDE METHOD STATEMENT FOR WORKING IN THIS AREA IN ACCORDANCE WITH HSE AND POWER SUPPLIERS GUIDELINES TO SATISFACTION OF THE CDM CO-ORDINATOR

ALL EXISTING SERVICES TO BE LOCATED AT COMMENCEMENT IN ACCORDANCE WITH UNDERTAKERS REQUIREMENTS AND PROTECTED ACCORDINGLY DURING THE WORKS

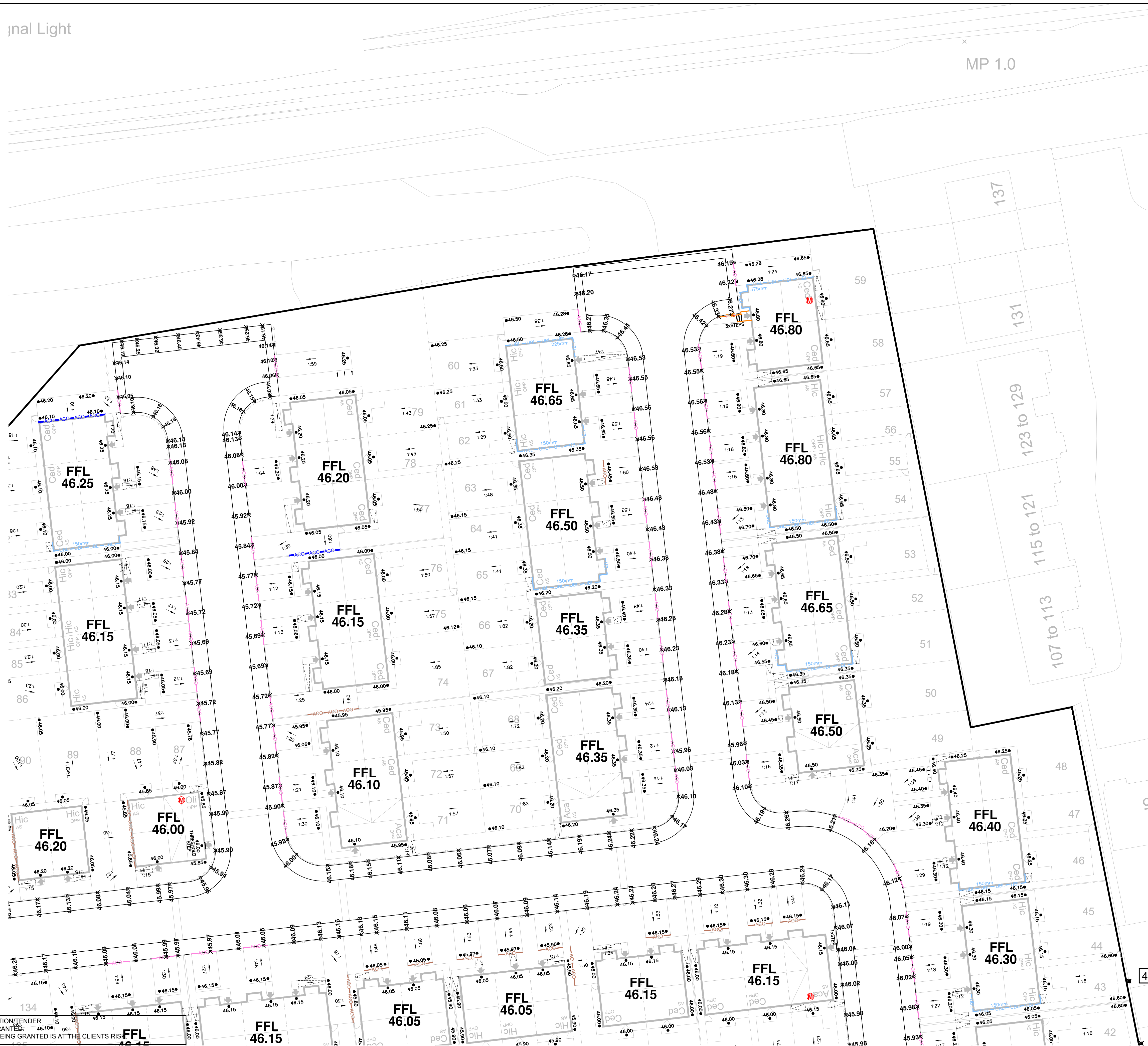
ALL MANHOLE COVERS AND FRAMES MUST COMPLY WITH BS EN124.

COVERS IN ROAD TO BE GRADE D400 AND BE 150mm DEEP. MANHOLE COVERS IN CAR PARKING AREAS AND DRIVES TO BE GRADE B125. WHILST LANDSCAPED AREAS MAY BE GRADE A15. ALL TO BE SIZED IN ACCORDANCE WITH PART H OF THE BUILDING REGULATIONS 2002 TABLES 11 & 12

WHERE THE FLOOR LEVELS OF PLOTS ARE RAISED SIGNIFICANTLY (I.E OVER APPROX. 500mm) AND FILLING IS REQUIRED THERE MAY BE AN NHBC REQUIREMENT TO PROVIDE A DETAILED SPECIFICATION FOR THE TYPE OF FILL TO BE USED AND METHOD OF COMPACTION. IN SUCH INSTANCES PLEASE REVERT BACK TO REFA FOR FURTHER DETAILS

THIS DRAWING IS BASED ON PLANNING
LAYOUT PROVIDED BY CLIENT
DRAWING NUMBER:- KH006 A-100
REVISION:- L
CLIENT TO ENSURE THE ABOVE LAYOUT IS CURRENT BEFORE
USING THIS DRAWING FOR CONSTRUCTION PURPOSES

PLEASE NOTE THAT THIS DRAWING IS ISSUED FOR INFORMATION/T
PURPOSES ONLY UNTIL TECHNICAL APPROVAL HAS BEEN GRANTED
ANY WORK UNDERTAKEN PRIOR TO TECHNICAL APPROVAL BEING G



GENERAL

1. All adoptable sewers and associated works are to comply fully with "Design and Construction Guidance" & Local Practices
2. All highway works to be to adoptable standards and to comply fully with the Local Authority specification.
3. All private drainage works are to comply fully with Part H of the Building Regulations
4. All existing invert levels to be checked by the Contractor at the start of works and any discrepancies noted to REFA.
All levels are based on topographical survey information provided by others.
5. All materials to bear the relevant B.S. Kitemark and comply fully with the relevant standards.
All concrete & concrete products must use Sulphate resistant cement (unless the site investigation report proves that sulphate attack from soils and groundwater will not occur)
6. All opening notices etc. as required under highways acts etc. are to be obtained prior to commencement of works.
All works are to be inspected by LA, NHBC or Relevant Water Authority as applicable.

C.D.M. REGULATIONS 2015

In line with the above regulations we are obliged to inform the Client of their responsibilities under section CDM 15/1, and residual risks that may be encountered in the construction of these works. All design work has been carried out with Health and Safety aspects given full consideration. Wherever possible risks have been eliminated from the design, however due to the very nature of this type of work it is not possible to remove all the risks from the design.

We would also respectfully remind the Client of his obligations to take all reasonable steps in ensuring that only competent Contractors who have a valid safety policy are employed.

They should also provide satisfactory responses at tender stage as to the manner in which they will deal with the elements of risk involved in this type of work and in particular those highlighted by RFFA below:-

1. Support / treatment for ALL excavation work.
2. Guarding to edges of excavations to prevent people, materials and vehicles falling into excavation.
3. Guarding of excavations outside working hours to prevent unauthorised access.
4. Undermining to adjacent roads or structures.
5. Confined space operations.
6. Dealing with existing services.
7. Traffic management on existing highways.
8. Procedure to be followed in event of accident or emergency.
9. Method of working where contaminated ground is present on site.
10. Confirmation will be required that all operatives are adequately trained, copies of relevant training certificates to be supplied.

The above list is by no means exhaustive but it does highlight operations that present a risk to contractors and the general public.
For clarification on any item please contact REFA.

[illegible]

C	TO PLANNING LAYOUT REV L	RW	06.04.20
B	UPDATED TO PLANNING LAYOUT REV H	RW	25.01.20
A	REVISED FOLLOWING CLIENTS COMMENTS	RW	28.11.20

rev	Revision details	RevBy	Date
  www.smasltd.com		as recognised by  SAFETY SCHEMES IN PROCUREMENT	

Drawing Stage		Drawing Status	
	Draft	Comments	● Tender
●	Issued	Information	Construction
		● Approval	As Built

Client

KELLEN HOMES

Job title
**BENNETT STREET
MANCHESTER**

Drawing title

EXTERNAL WORKS

DRG 3

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CONSULTING ENGINEERS

CIVIL • STRUCTURAL

GEOTECHNICAL • ENVIRONMENTAL

Date 17.11.22	Scale 1/250	Drawn RW
DRAWING No	22122/106/3	Rev C

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