# Site Investigation for land at Trough Laithe Farm, Barrowford Road, Lancashire

## Appendix 14

## **CDM Information**

## Coopers

General Design Risk Assessment for Typical Foundation Options

Ref: 5883si 16 September 2014

Project: Trough Laithe Farm, Barrowford Project No: 5883

,	HAZARD			RI	SK ASS	ESSME	NT			HAZARD AVOIDANCE MEASURES
DESIGN	( ie slips, trips, falls, manual handling, use of mobile plant, chemicals		Construct	tion Pha	se	Operational/Maintenance Phase				(specify measures required to avoid or minimize risk using hierarchy of controls)
	etc.)	High	Med	Low	N/A	High	Med	Low	N/A	
Foundations <1200mm deep and House Drainage	Falls/slips/trips	J	<b>√</b>						✓	Provide information and training on working in excavations. Use daily inspections by competent person prior to entry into trench and recording on Excavation Register
(ie Traditional & Nominally Reinforced Strip Footings)	Trench Collapse			✓					✓	Ensure excavationsides battered back to a safe angle of repose. Provide information and training on working in excavations. Use daily inspections by competent person.
Breaking out existing foundations	Noise /vibration		✓						<b>✓</b>	Identify existing foundations and dig out using mechanical excavator. If not possible break out using hand held breakers. Minimise vibration in breakers by maintenance. Ensure use of thick gloves/appropriate PPE
	Contamination			✓					<b>√</b>	Removal of contaminated material to a licensed landfill site or use of inert cover over contaminated strata. Use of PPE by groundworkers. Enforcement of good hygiene rules and provision of welfare facilities.
Handling of blocks/bricks and steel mesh	Musculo-Skeletal Injury		<b>~</b>						<b>√</b>	Use of mechanical handling plus manual handling risk assessment. Certificate required for mechanical handling. Designer to specify use of blocks/bricks and mesh of suitable unit weight for manual handling. Contractor to ensure mesh lengths take into account manual handling. Mechanical handling where possible.
Concrete pouring/mortars	Skin Irritation/Eczema		✓						<b>√</b>	Contractor to ensure proper use of barrier cream/PPE. Designer to ensure suitable mortar additives. Contractor to carry out COSHH assessments.
	Existing services		<b>✓</b>						<b>√</b>	Contact utilities management companies to confirm existence or absence of live services. Provide utilities plans to Contractor. Use of Cat and Genny during excavation and proceed with care. Hand dug excavations where necessary.
Foundations >1200mm deep and Drains/Services (ie Deep Strip footings or Mass Concrete Trench Fill	Trench collapse	~							<b>✓</b>	Ensure excavationsides supported by propping/trench sheeting, or battered back to a safe angle of repose. Provide information and training on working in excavations. Use daily inspections by competent person. Added risk in areas of groundwater. Ensure that excavation pumped dry at all times.
	Slips/trips/falls	<b>✓</b>							<b>√</b>	Provide information and training on working in excavations. Use daily inspections by competent person prior to entry into trench and recording on Excavation Register
	Contamination			<b>✓</b>					<b>✓</b>	Removal of contaminated material to a licensed landfill site or use of inert cover over contaminated strata. Use of PPE by groundworkers. Enforcement of good hygiene rules and provision of welfare facilities.
	Existing Services			<b>✓</b>					<b>√</b>	Contact utilities management companies to confirm existence or absence of live services. Provide utilities plans to Contractor. Use of Cat and Genny during excavation and proceed with care. Hand dug excavations where necessary.

Project: Trough Laithe Farm, Barrowford Project No: 5883

ACTIVITY/ELEMENT OF	HAZARD ( ie slips, trips, falls, manual handling, use of			RI	SK ASS	ESSME	NT			HAZARD AVOIDANCE MEASURES
DESIGN		Construction Phase				Оре		/Mainten ase	ance	(specify measures required to avoid or minimize risk using hierarchy of controls)
	mobile plant, chemicals etc.)	High	Med	Low	N/A	High	Med	Low	N/A	
Foundations >1200mm deep and Drains/Services	Continued									
Installation of polystyrene sheets for heave protection requiring manned entry to unsupported excavations	Trench collapse Slips/trips/falls	<b>~</b>							<b>√</b>	Install inaccordance with approved method statement and to include edge protection and adequate cross over points. Alternatively consider integral raft foundation with stone blanket.
Concrete pouring/mortars	Skin Irritation/Eczema	<b>√</b>							✓	Contractor to ensure proper use of barrier cream/PPE. Designer to ensure suitable mortar additives. Contractor to carry out COSHH assessments.
Handling of blocks/bricks and steel mesh	Musculo-Skeletal injury		<b>√</b>						<b>√</b>	Use of mechanical handling plus manual handling risk assessment. Certificate required for mechanical handling. Designer to specify use of blocks/bricks and mesh of suitable unit weight for manual handling. Contractor to ensure mesh lengths take into account manual handling. Mechanical handling where possible.
	Asphyxia and confirmed space working	✓							✓	Confined space procedures for working in deep excavations/manholes. Ensure fumes from mechanical plant, such as pumps, are well controlled.
Breaking out existing foundations	Noise/Vibration			✓					✓	Identify existing foundations and dig out using mechanical excavator. If not possible break out using hand held breakers. Minimise vibration in breakers by maintenance. Ensure use of thick gloves/appropriate PPE
Raft Foundations with Integral floor slab	Slips/trips/falls		<b>✓</b>						✓	Provide information and training on working in excavations. Use daily inspections by competent person prior to entry into trench and recording on Excavation Register
Strip existing fill material and remove to approved bearing strata. Backfill with approved consolidated granular fill.	Trench collapse	<b>√</b>							✓	Ensure excavationsides supported by propping/trench sheeting, or battered back to a safe angle of repose. Provide information and training on working in excavations. Use daily inspections by competent person. Added risk in areas of groundwater. Ensure that excavation pumped dry at all times.
	Contamination			<b>√</b>					<b>√</b>	Removal of contaminated material to a licensed landfill site or use of inert cover over contaminated strata. Use of PPE by groundworkers. Enforcement of good hygiene rules and provision of welfare facilities.

Project: Trough Laithe Farm, Barrowford Project No: 5883

ACTIVITY/ELEMENT OF	HAZARD			RI	SK ASS	ESSME	NT			HAZARD AVOIDANCE MEASURES		
DESIGN	( ie slips, trips, falls, manual handling, use of mobile plant, chemicals	nanual handling, use of Construction Phase				Оре		/Mainten ase	ance	(specify measures required to avoid or minimize risk using hierarchy of controls)		
	etc.)	High	Med	Low	N/A	High	Med	Low	N/A			
Raft Foundations with Integral floor slab	Continued	J				J						
Construction of granular blanket beneath raft for heave precautions, depth <1200mm.				✓					✓	Ensure excavationsides battered back to a safe angle of repose. Provide information and training on working in excavations. Use daily inspections by competent person. Use daily inspections by competent person prior to entry into trench and recording on Excavation Register.		
Breaking out existing foundations	Noise/Vibration			✓					✓	Identify existing foundations and dig out using mechanical excavator. If not possible break out using hand held breakers. Minimise vibration in breakers by maintenance. Ensure use of thick gloves/appropriate PPE		
	Existing Services			✓					<b>√</b>	Contact utilities management companies to confirm existence or absence of live services. Provide utilities plans to Contractor. Use of Cat and Genny during excavation and proceed with care. Hand dug excavations where necessary.		
	Backfilling   ✓			<b>✓</b>	Use mechanical excavators to place approved granular fill in layers and lightly compact. Geotes wrap fills in 1m max. lift heights and use graded granular material with good self compacting properties. Compaction with plant only when excavation depth <1200mm deep.							
Steel Fixing	Musculo-Skeletal injury		<b>~</b>						<b>✓</b>	Designer to schedule bars to take into account manual handling. Avoid long large diameter bars. Use of mechanical handling where possible plus manual handling risk assessment. Certificate required for machanical handling		
Concrete pouring/mortars	Skin Irritation/Eczema	<b>√</b>							<b>√</b>	Contractor to ensure proper use of barrier cream/PPE. Designer to ensure suitable mortar additives. Contractor to carry out COSHH assessments.		
Foundations-piled												
Mobilisation of plant	Sequencing of piling work with other construction to avoid unsafe conditions		<b>√</b>							Tender documents to include site investigation report and current services information. Contracto plan site access. Provision of stone support blanket where required to protect buried services		
	Damage to buried services		<b>V</b>							Design of piling platform to BR470. Agree working clearances with highway authority		
	Rig overturning		✓						✓			

Project: Trough Laithe Farm, Barrowford Project No: 5883

ACTIVITY/ELEMENT OF	HAZARD			RI	SK ASS	ESSME	NT			HAZARD AVOIDANCE MEASURES
DESIGN	( ie slips, trips, falls, manual handling, use of mobile plant, chemicals	Construction Phase				Operational/Maintenance Phase				(specify measures required to avoid or minimize risk using hierarchy of controls)
	etc.)	High	Med	Low	N/A	High	Med	Low	N/A	
Foundations-piled	Continued									
Pile driving - CFA	Hearing loss		<b>\</b>						<b>√</b>	Contractor to establish closed working zone inside which PPE to be mandatory (ear defenders, etc)
	Contamination		<						<b>√</b>	Any arisings from pile excavation to be segregated and disposed of as controlled waste.  Operatives to be provided with adequate welfare provisions for washing and eating.
-CFA auger changes	Musculo-skeletal injury		<b>~</b>						<b>√</b>	Limit number of pile sizes to struicture.
- Steel fixing	Musculo-skeletal injury		✓						<b>√</b>	Schedule bars to take into account manual handling. Avoid long large diameter bars who weight would exceed 20kgs. Consider automated cage reinforcement equipment.
-Reinforcement lifting	Injury from falling stee bars		<b>√</b>						<b>√</b>	Design of reinforcement cages to be robust enough for lifting.
- Concrete pouring	Skin irritation/ eczema		<b>√</b>						<b>√</b>	Contractor to ensure proper use of barrier cream/ PPE
Pile driving - precast concrete segmental	Hearing loss	✓							<b>√</b>	Contractor to establish closed working zone inside which PPE to be mandatory (ear defenders, etc)
	Musculo-skeletal injury Trapping/ crushing	<b>✓</b>							<b>√</b>	Contractor to prepare Method Statement. Provide information and training in handling and joint piles.  COSHH assessment of adhesives used in pile jointing  Use of PPE.
Pile trimming to cut-off level and expose reinforcement. - Scabbling pile surface	Noise/Vibration Musculo-skeletal injury Trapping/ crushing Cuts & abrasions		<b>√</b>						<b>√</b>	Correct use of mechanical pile croppers or other means of trimming that do not involve excessivuse of hand held tools. Minimise vibration in hand held breakers by maintenance. Ensure use of thick gloves/appropriate PPE. Use protection caps on exposed bars after trimming.
Ground Beams										
Retained ground "fill": excavation < 1.2m	Trench collapse		<						<b>√</b>	Ensure excavation sides battered back to angle of safe repose. Provide information and traini on working in excavations. Use "permit to work" system and daily inspections by competent person.
Retained ground "fill": excavation > 1.2m	Trench collapse/ trips/ falls	<b>√</b>							<b>√</b>	Ensure excavation sides supported by propping/ trench sheeting, or battered back to angle safe repose. Provide information and training on working in excavations. Use "permit to work system and daily inspections by competent person.
Steel fixing	Musculo-skeletal injury		<b>√</b>						<b>√</b>	Schedule bars to take into account manual handling. Avoid long large diameter bars whose weight would exceed 20kgs.
Concrete pouring	Skin irritation/ eczema		<b>✓</b>						<b>√</b>	Contractor to ensure proper use of barrier cream/ PPE

# Site Investigation for land at Trough Laithe Farm, Barrowford Road, Lancashire

## Appendix 15

## **Reference Drawings**

<u>Drawing No.</u>	Revision	<u>Title</u>
5883/L1	-	Site Location Plan
5883/AP	-	Aerial Photograph.
5883/01	-	Site Plan
5883/DSP	-	Drift Strata Plan
5883/Ts/01	-	Typical Details for traditional Strip Footing in Clay Bearing Strata with Suspended and Ground Supported Slab
5883/Rn/01	-	Typical Details for Nominally Reinforced Strip Footing in Sand Bearing Strata with Suspended and Ground Supported Slab
5883/Rs/01	-	Typical Details for Designed Reinforced Strip Foundation with Suspended and Ground supported Slab.
5883/WRs/01	-	Typical Foundation Details for Wide Reinforced Strip Foundation with Suspended and Ground Supported Slab.
5883/TfH/01	-	Typical Details for Trenchfill Foundation Affected by Existing Trees Requiring Heave Precautions
5883/RfH/01	-	Typical Section/Detail Thro' Raft Foundation for Possible Heave Conditions

Ref: 5883si 16 September 2014



chartered consulting engineers

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SCALE	1:25000@A4
DATE	17.09.14
DRAWN	АН

CHEK'D

Trough Laithe Farm, Barrowford Road, Barrowford, Lancashire. SITE LOCATION PLAN

Drg No:

5883 / L1

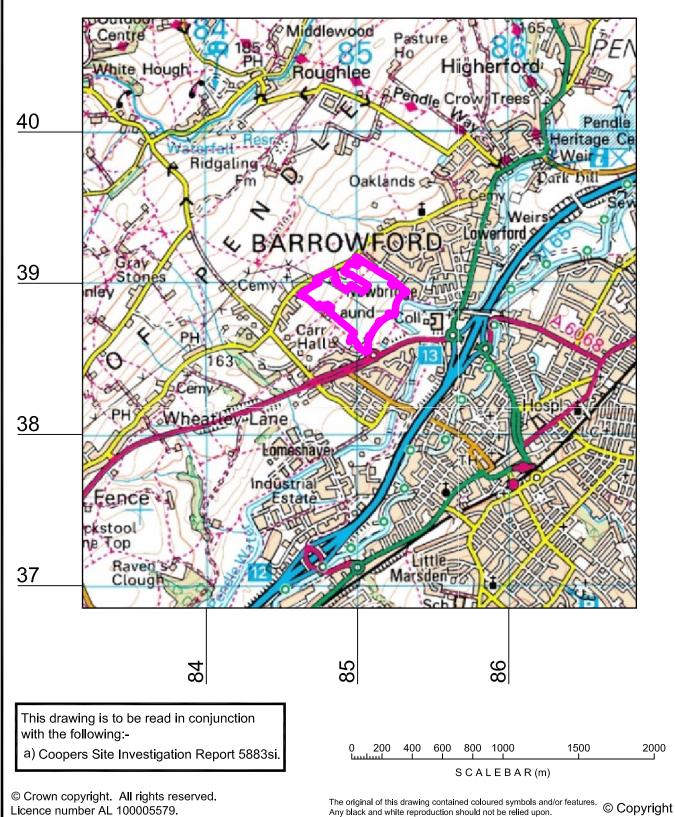


Licence number AL 100005579.

National Grid reference of the proposed site.

SD 851 388

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Trough Laithe Farm, Barrowford Road, Barrowford, Lancashire.

**AERIAL PHOTOGRAPH** 

	DO NOT SCALE
** coop	ers

Site Boundary

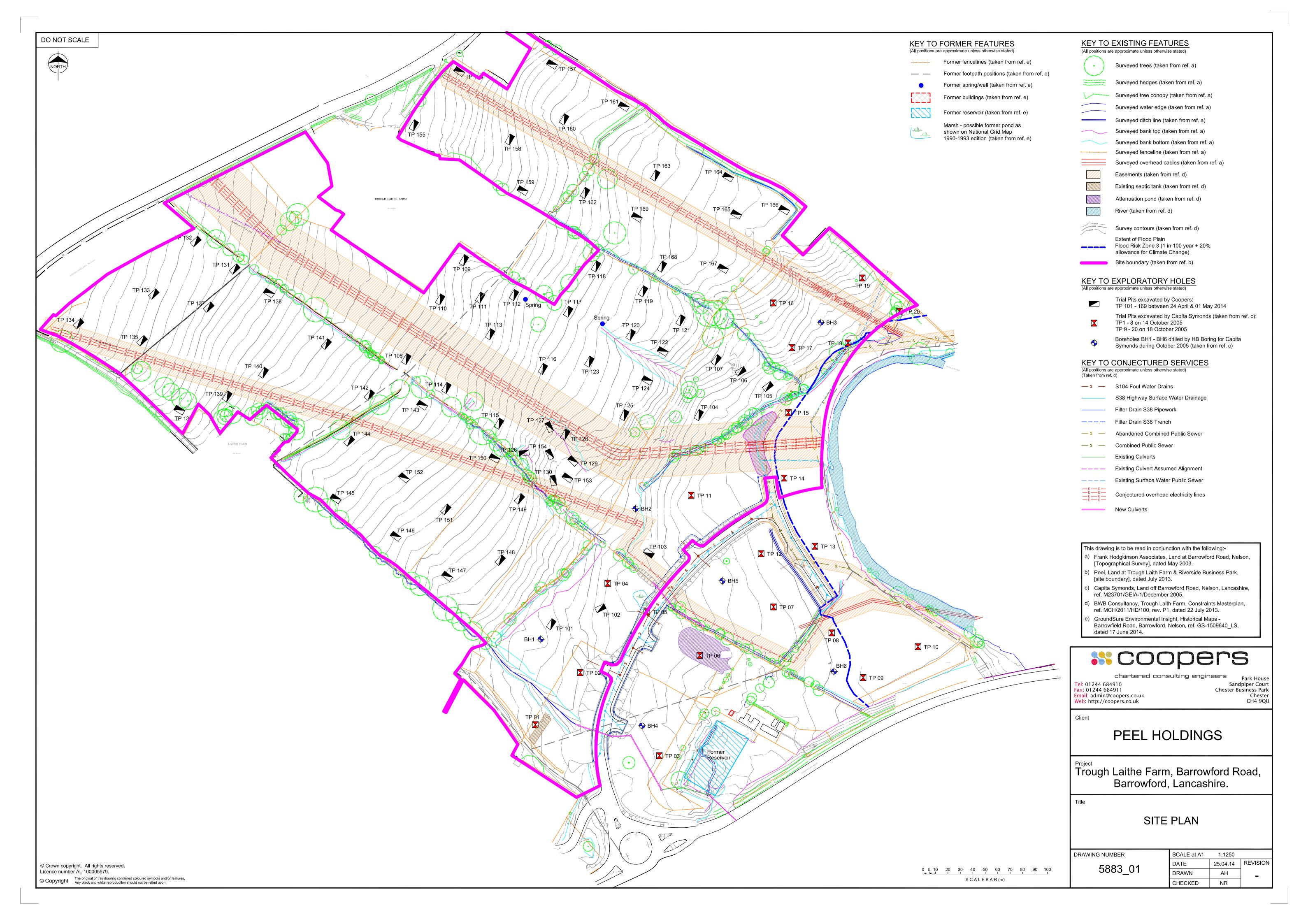
Park House
Sandpiper Court
Chester Business Park
Chester
CH4 9QU Tel: 01244 684910 Fax: 01244 684911 Email: admin@coopers.co.uk Web: http://coopers.co.uk

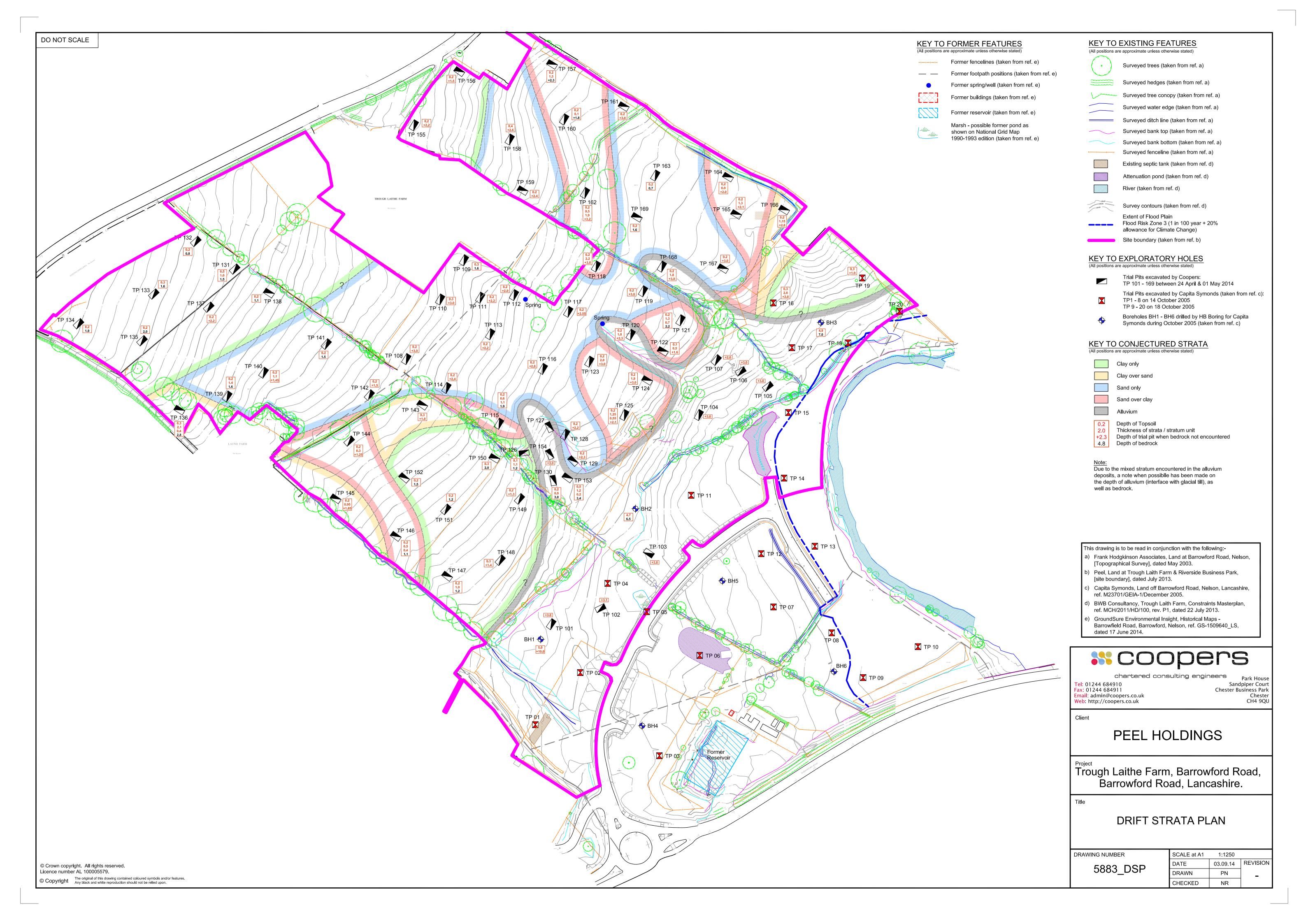
Drawing No.

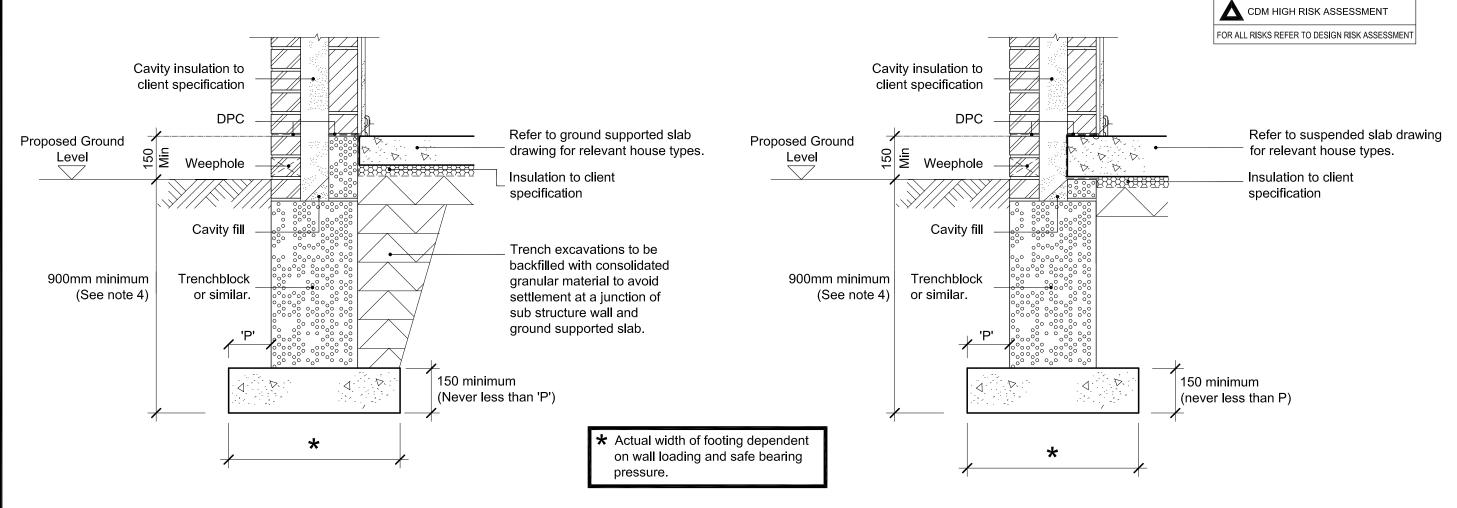
Rev. 5883 / AP

SCALE	NTS @ A3	
DATE	10.07.14	
DRAWN	PN	
CHEKID		١

Drwn Rev Comments







TRADITIONAL STRIP FOOTING
IN CLAY BEARING STRATA
WITH GROUND SUPPORTED SLAB

TRADITIONAL STRIP FOOTING
IN CLAY BEARING STRATA WITH
SUSPENDED GROUND FLOOR SLAB

## **NOTES**

- 1. This drawing is to be read in conjunction with Coopers Site Investigation Report Ref: 5883si.
- 2. The safe bearing pressure on clay strata limited to that indicated in the Site Investigation Report referred to in Note 1 above.
- 3. Foundation depths indicated assume that the proposed foundations are outside the zone of influence of former, existing and proposed trees (Refer to NHBC Standards Chapter 4.2).
- 4. Minimum foundation depth for footings founded in the Clay Bearing Strata are to be in accordance with the NHBC Standards Chapter 4.2, Clause D6(c) Table 5 and are as follows:-

SHRINKAGE	MINIMUM
POTENTIAL	DEPTH (mm)
MEDIUM	900

- 5. All backfill material to the foundation excavations and floor voids to be inert, non-biodegradable and free of all harmful contaminants in accordance with Approved Document C/1/2/3 of the Building Regulations (1992).
- 6. All wall cavities below ground to be filled with GEN 1 concrete to BS 5328 (max. agg. size 10mm). Wall cavities to be filled prior to the commencement of backfill to the foundation excavations and/or the floor voids. All backfilling to be completed in a uniform manner to prevent horizontal forces being applied to the foundation walls.
- 7. For Concrete, Blockwork/Brickwork and Mortar below DPC refer to the information contained in the Site Investigation Report referred to in Note 1 above.

EVISIONS



CLIENT

## PEEL HOLDINGS

PROJECT

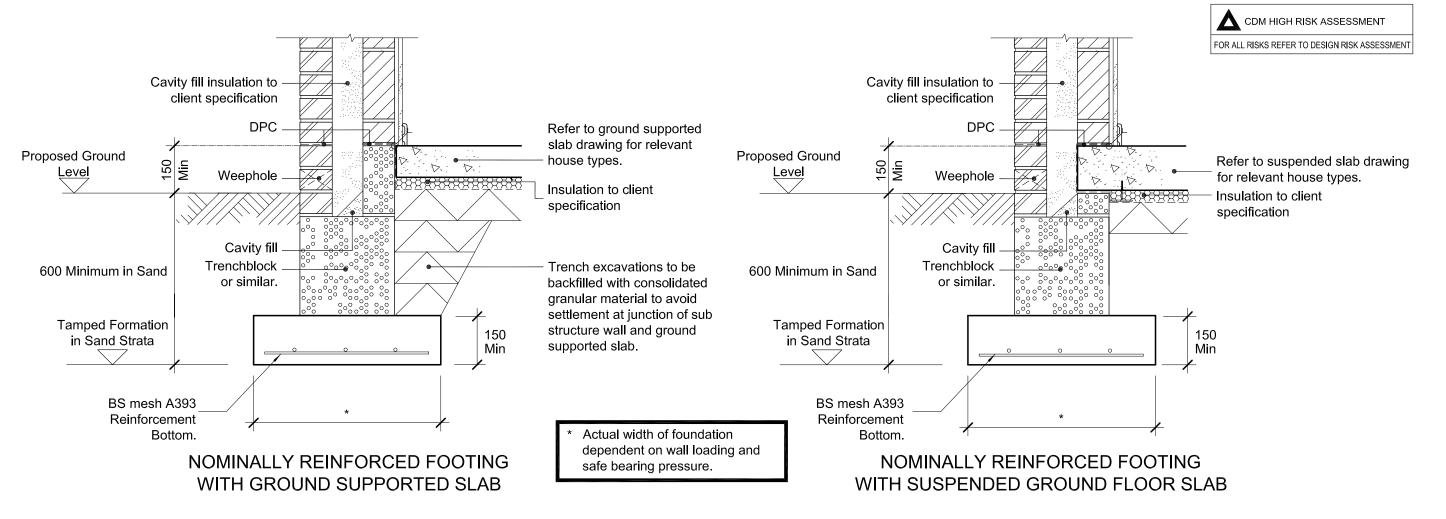
Trough Laithe Farm, Barrowford Road, Barrowford, Lancashire.

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Typical Details for Traditional Strip Footing in Clay Bearing Strata with Suspended and Ground Supported Slab

DRAWN BY	АН	
DATE	17.09.14	
SCALE(S)	NTS	
DRAWING NUMBER	RE\	/ISION

5883/Ts/01



## Notes

- 1. This drawing is to be read in conjunction with Coopers Site Investigation Report Ref: 5883si.
- 2 Reinforcement

Bottom - BS Mesh A393 Laps - 350mm minimum

Cover - Bottom - 75mm Sides - 75mm

- 3. All backfill material to the foundation excavations and floor voids to be inert, nonbiodegradable and free of all harmful contaminants in accordance with Approved Document C/1/2/3 of the building Regulations (1992).
- 4. All wall cavities below ground to be filled with GEN 1 concrete to BS 5328 (max. agg. size 10mm). Wall cavities to be filled prior to the commencement of backfill to the foundation excavations and/or the floor voids. All backfilling to be complete in a uniform manner to prevent horizontal forces being applied to the foundation walls.
- 5. For concrete, Blockwork/Brickwork and Mortar below DPC refer to Coopers Specification appended to the Site Investigation Report in Note 1 above.



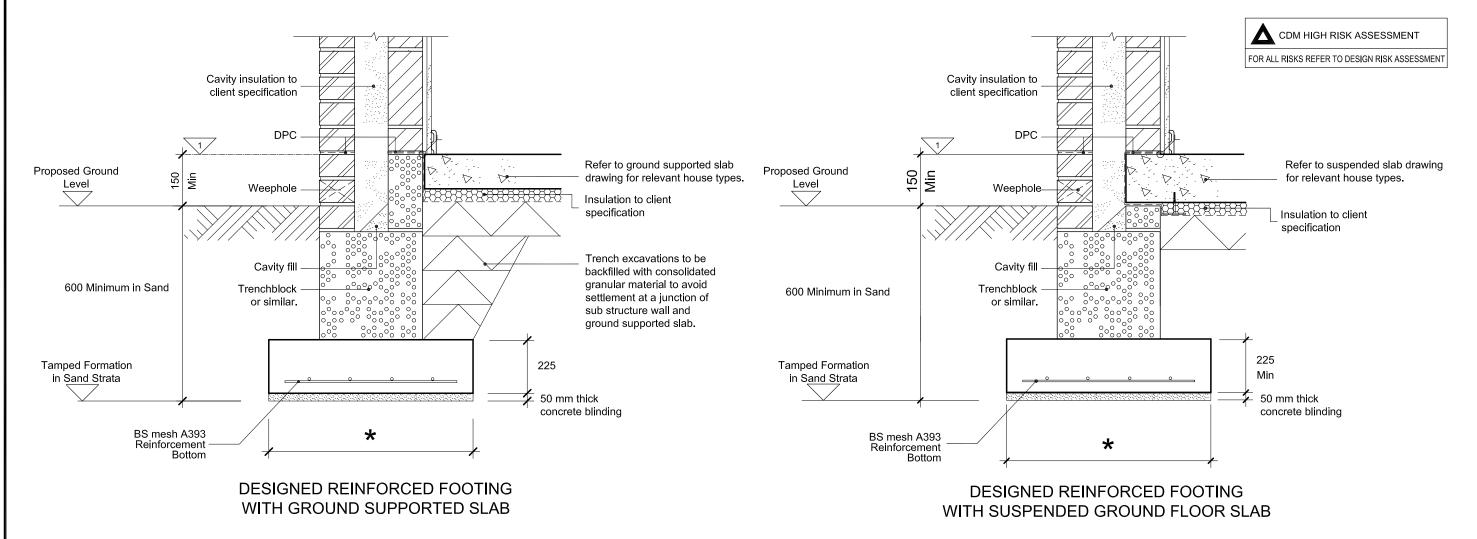
## PEEL HOLDINGS

Trough Laithe Farm, Barrowford Road, Barrowford, Lancashire.

Typical Details for Nominally Reinforced Footing with Suspended and Ground Supported Slab

DRAWN BY	АН	
DATE	17.09.14	
SCALE(S)	NTS	
DRAWING NUMBER	В	DEVISION

5883/Rn/01



## **NOTES**

- 1. This drawing is to be read in conjunction with Coopers Site Investigation Report Ref: 5883si.
- 2. The safe bearing pressure on sand / clay strata limited to that indicated in the Site Investigation Report referred to in Note 1 above.
- 3. Reinforcement

Bottom - BS Mesh A393 Laps - 350mm minimum

Cover - Bottom - 75mm

Sides - 75mm

4. Minimum foundation depths for footings founded in the Clay Bearing Strata are to be in accordance with the NHBC Standards Chapter 4.2, clause D6(c) Table 5 and are as follows:-

SHRINKAGE	MINIMUM
POTENTIAL	DEPTH (mm
MEDIUM	900

- 5. All backfilled material to the foundation excavations and floor voids to be inert, non-biodegradable and free of all harmful contaminants in accordance with Approved Document C/1/2/3 of the Building Regulations (1992).
- 6. All wall cavities below ground to be filled with GEN 1 concrete to BS 5328 (max. agg. size 10mm). Wall cavities to be filled prior to the commencement of backfill to the foundation excavations and/or the floor voids. All backfilling to be completed in a uniform manner to prevent horizontal forces being applied to the foundation walls.
- 7. For Concrete, Blockwork/Brickwork and Mortar below DPC refer to the information contained in the Site Investigation Report referred to in Note 1 above.



## PEEL HOLDINGS

PROJECT

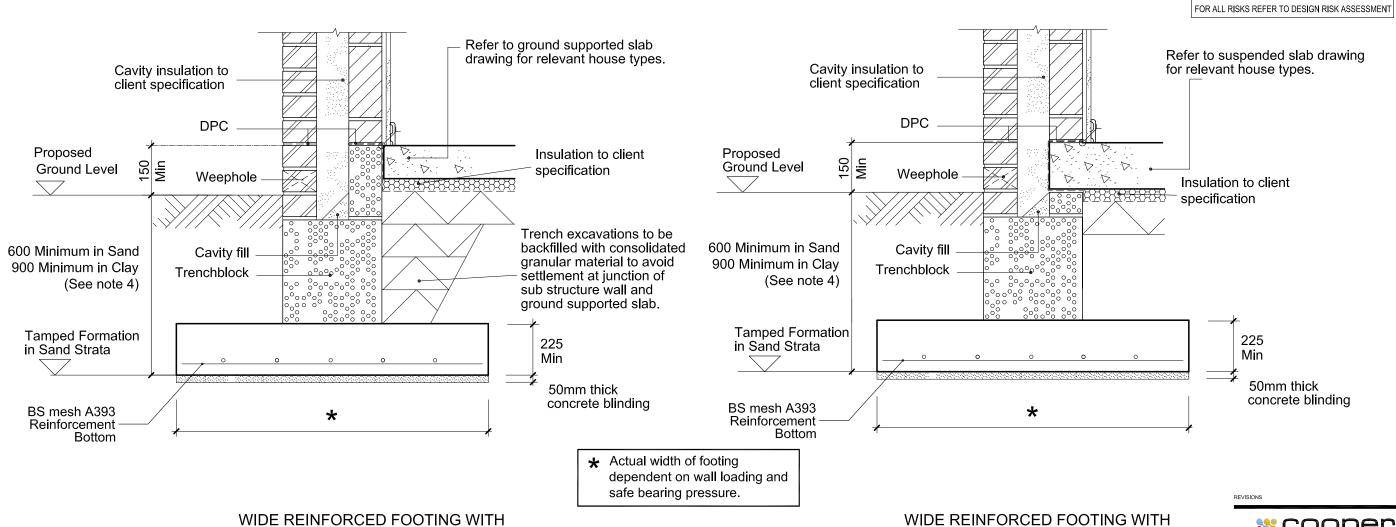
Trough Laithe Farm, Barrowford Road, Barrowford, Lancashire.

TITLE

Typical Details for Designed Reinforced Strip Foundation with Suspended and Ground Supported Slab

DRAWN BY	AH	
DATE	17.09.14	
SCALE(S)	NTS	
DRAWING NUME	BER	REVISION

5883/Rs/01



#### NOTES

- 1. This drawing is to be read in conjunction with Coopers Site Investigation Report Ref: 5883si.
- 2. The safe bearing pressure on sand / clay strata limited to that indicated in the report referred to in Note 1 above.
- 3. Reinforcement

Bottom - BS Mesh A393 Laps - 350mm minimum

Cover - Bottom - 50mm

Sides - 75mm

**GROUND SUPPORTED SLAB** 

4. Minimum foundation depths for footings founded in the Clay Bearing Strata are to be in accordance with the NHBC Standards Chapter 4.2, Clause D6(c) Table 5 and are as follows:-

SHRINKAGE POTENTIAL	MINIMUM DEPTH (mm)
MEDIUM	900

# SUSPENDED GROUND FLOOR SLAB

- All backfill material to the foundation excavations and floor voids to be inert, non-biodegradable and free of all harmful contaminants in accordance with Approved Document C/1/2/3 of the Building Regulations (1992).
- 6. All wall cavities below ground to be filled with GEN 1 concrete to BS 5328 (max. agg. size 10mm). Wall cavities to be filled prior to the commencement of backfill to the foundation excavations and/or the floor voids. All backfilling to be completed in a uniform manner to prevent horizontal forces being applied to the foundation walls.
- 7. For Concrete, Blockwork/Brickwork and Mortar below DPC refer to the information contained in the Report referred to in Note 1 above.



CDM HIGH RISK ASSESSMENT

PEEL HOLDINGS

ROJECT

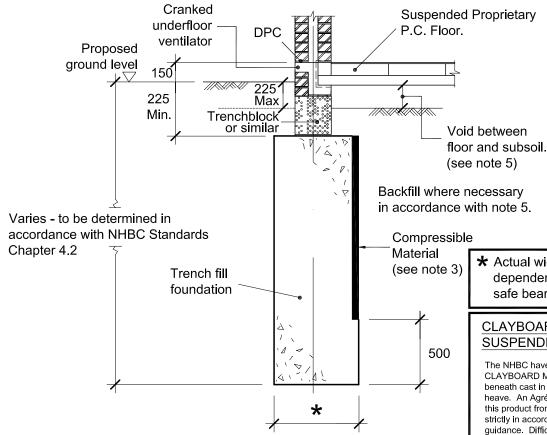
Trough Laithe Farm, Barrowford Road, Barrowford, Lancashire.

TITLE

Typical Foundation Details for Wide Reinforced Strip Foundation with Suspended and Ground Supported Slab

DRAWN BY	AH	
DATE	17.09.14	
SCALE(S)	NTS	
DRAWING NUMB	ER	REVISION

5883/WRs/01



TRENCH FILL FOUNDATION AFFECTED BY EXISTING TREES REQUIRING HEAVE PRECAUTIONS (MEDIUM SHRINKAGE POTENTIAL)

## **NOTES**

- 1. This drawing is to be read in conjunction with Coopers Site Investigation Report Ref: 5883si.
- The safe bearing pressure on strata limited to that indicated in the Site Investigation Report referred to in Note 1 above.
- Claymaster or similar approved to be provided against internal face of perimeter foundations.
- 4. All backfill material to the foundation excavations and floor voids to be inert, non-biodegradable and free of all harmful contaminants in accordance with Approved Document C/1/2/3 of the Building Regulations (1992).
- 5. The minimum clear void below the suspended precast concrete ground floor is to be 250mm and should be adequately ventilated in accordance with the Building Regulations (1992) and NHBC Standards Chapter 4.2 S4(d) table 10. The level of backfill to the floor voids is to be within 225mm of the adjoining outer ground level, with the backfill material being effectively drained.
- 6. All wall cavities below ground to be filled with GEN 1 concrete to BS 5328 (max. agg. size 10mm). Wall cavities to be filled prior to the commencement of backfill to the foundation excavations and/or the floor voids. All backfilling to be completed in a uniform manner to prevent horizontal forces being applied to the foundation walls.
- Refer to proprietary precast concrete floor manufacturers specialist drawing for all P.C. floor details.
- 8. For Concrete, Blockwork/Brickwork and Mortar below DPC refer to the information contained in the Site Investigation Report referred to in Note 1 above.

★ Actual width of foundation dependent on wall loading and safe bearing pressure.

## CLAYBOARD & CAST IN SITU SUSPENDED SLABS

The NHBC have permitted the use of the new CLAYBOARD MARK 2 KN30 VOID SYSTEM beneath cast in situ suspended slabs to cater for heave. An Agrément Certificate is available for this product from the BBA. Installation must be strictly in accordance with the manufacturers guidance. Difficulties in installation may be experienced and use of this product is at the house builders discretion. Minimum void former dimension beneath suspended slab in accordance with NHBC Standards Chapter 4.2 S4(d) Table 9.



CDM HIGH RISK ASSESSMENT

FOR ALL RISKS REFER TO DESIGN RISK ASSESSMENT



Tel: 01244 684910 Fax: 01244 684911 Email: admin@cooperassociates.co.uk Sandpiper Cour Chester Business Park Cheste

CLIENT

## PEEL HOLDINGS

ROJECT

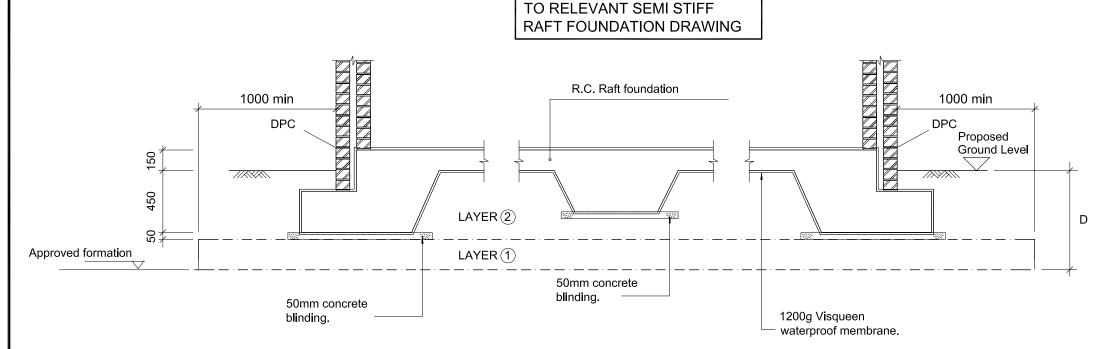
Trough Laithe Farm, Barrowford Road, Barrowford, Lancashire.

TITLE

Typical Details for
Trenchfill Foundation Affected
by Existing Trees Requiring
Heave Precautions

DRAWN BY	АН
DATE	17.09.14
SCALE(S)	NTS

5883/TfH/01



CDM HIGH RISK ASSESSMENT

FOR ALL RISKS REFER TO DESIGN RISK ASSESSMENT

Depth to be determined in accordance with the NHBC Standards Chapter 4.2 Clause D7(e).

# TYPICAL SECTION/DETAIL THRO' RAFT FOUNDATION FOR POSSIBLE HEAVE CONDITIONS

FOR GENERAL NOTES REFER

#### **NOTES**

- 1. This drawing is to be read in conjunction with the following:
  - a) Client's house type drawing(s)
  - b) Coopers Site Investigation Report Reference: 5883si.
- For service connections, gullies and duct requirements refer to clients drawings.
   Allow for flexible pipework to all service connections/ducting.
- 3. The safe bearing pressure of the approved consolidated granular fill limited to that indicated in the report referred to in Note 1 above.

## LAYER (1)-

### HARDCORE BLANKET

Approved consolidated hardcore/ granular fill well compacted in layers not exceeding 225mm thick and compacted in accordance with the D.O.T specification for Highway Works Volume 1, Series 600. - Depth to be determined in accordance with NHBC Standards Chapter 4.2 Clause D7(e).

### LAYER (2)-

#### SLAB SUB-BASE

Approved consolidated granular fill sand blinded and compacted in accordance with the D.O.T. Specifications for Highway Works Volume 1, Series 600. Refer to RC drawing for further details.

REVISIO



CLIENT

## PEEL HOLDINGS

ROJECT

Trough Laithe Farm, Barrowford Road, Barrowford, Lancashire.

TITLE

Typical Section/Detail
Thro' Raft Foundation for
Possible Heave Conditions

	DRAWN BY	AH
	DATE	17.09.14
	SCALE(S)	NTS
	DRAWING NUMBER	REVISION

5883/RfH/01

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