

Hardman Structural Engineers

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2 Pond Square / 1188

Engineer's statement regarding proposed basement construction

Introduction

A recently constructed basement to a three storey terraced domestic property is to be extended towards the front of the property. The basement was formed by traditional underpinning the existing walls.

During the time that this was constructed no groundwater was encountered in the excavations. The underlying soil conditions are London Clay.

The adjacent property to No. 1 Pond Square also has a basement.

The proposals are to carry out a relatively small and straightforward single story extension to provide more basement living room space.

The site is bounded by the existing property, front gardens to adjacent properties and the pavement to the Street (Pond Square).

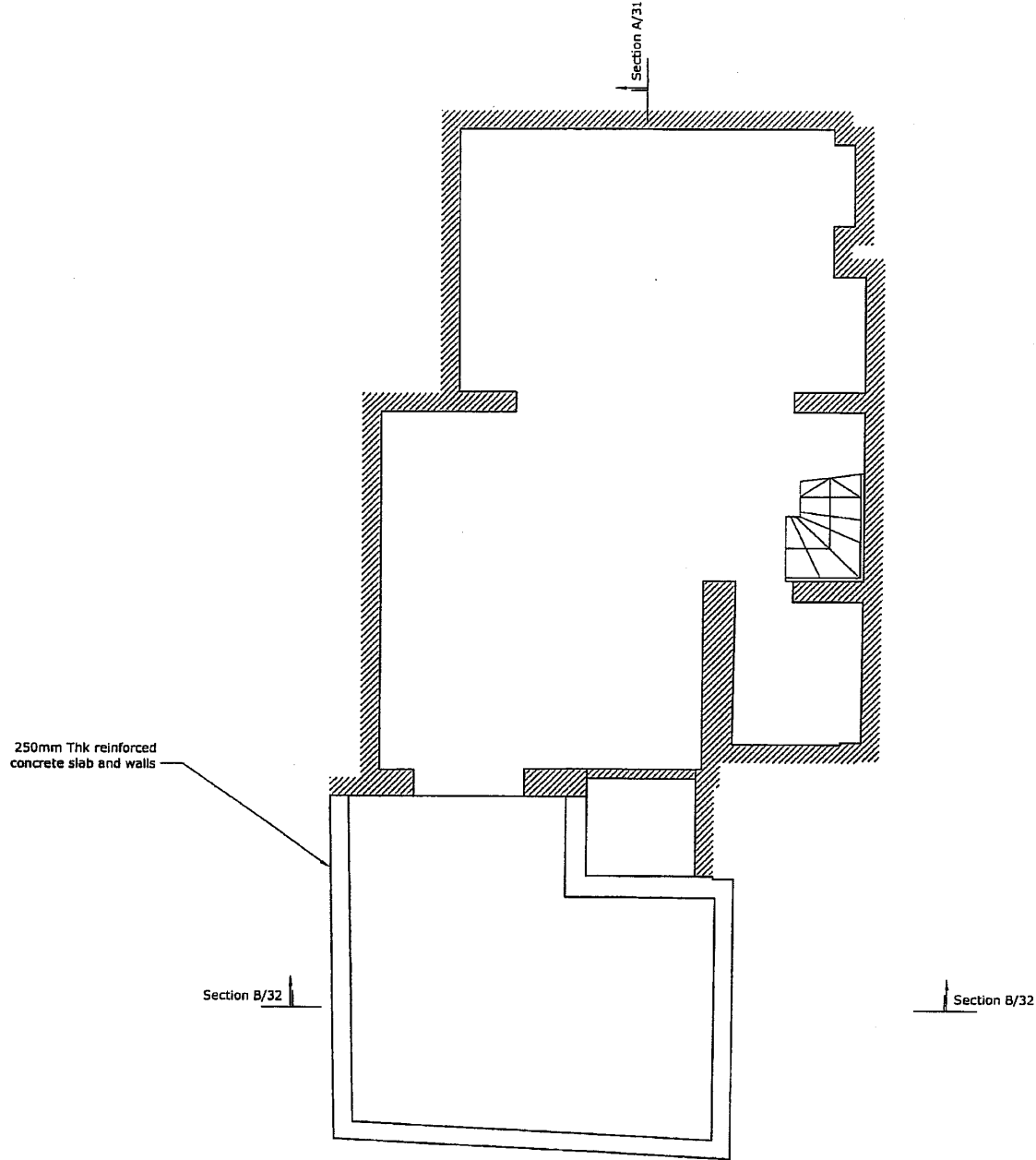
Structural engineering approach

The basement is to be formed using reinforced concrete retaining walls and basement slab, and a reinforced concrete capping slab to tie the head of the walls together. Outline plans are attached.

As the site is small it is proposed to carry out the excavation in sections with the provision of appropriate propping throughout.

A set of sketches illustrating an appropriate sequence is attached.

June 2011



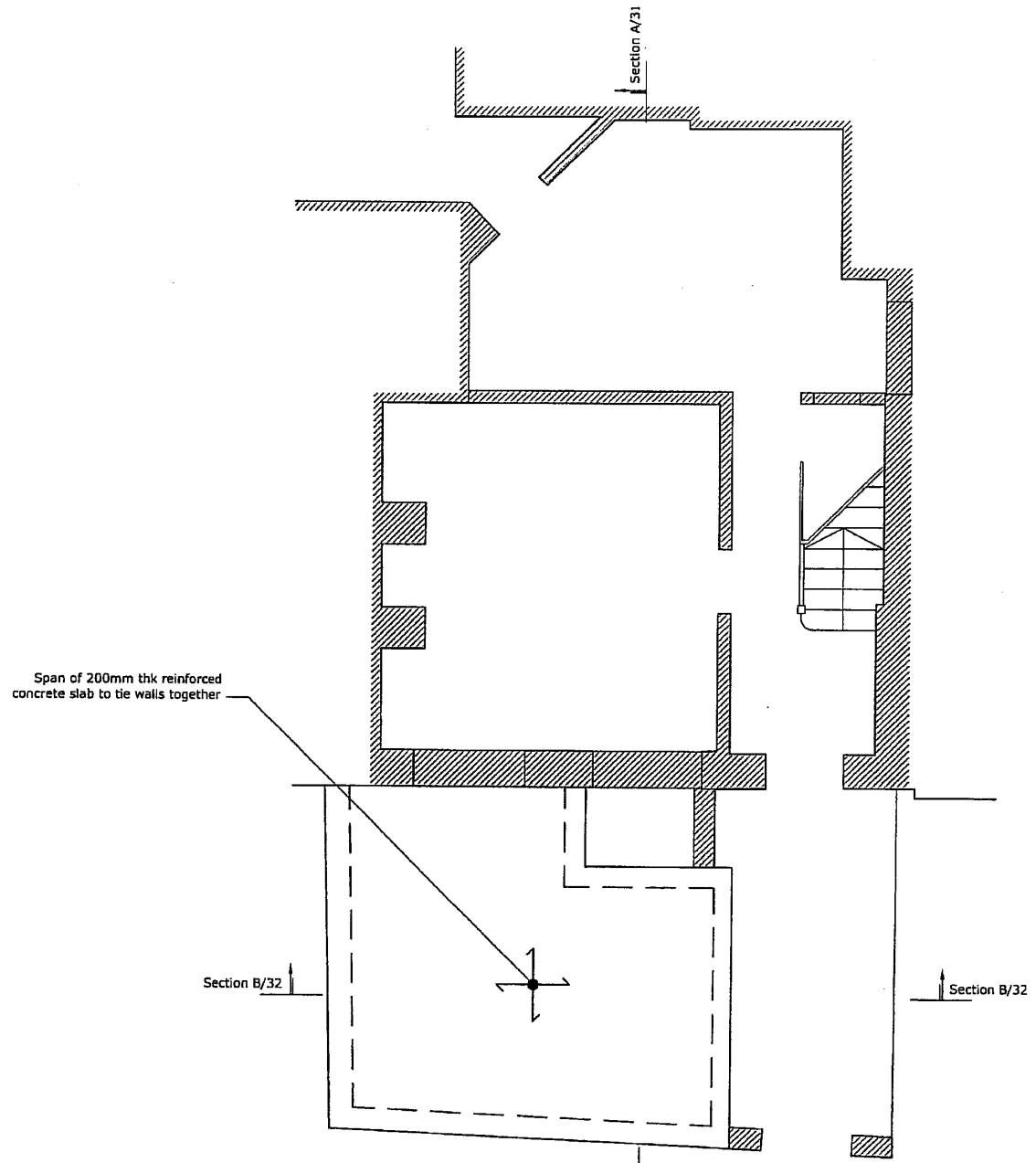
General Notes

1. Do not scale from this drawing.
2. This drawing is to be read in conjunction with all relevant Engineers and Architects drawings and specifications.
3. Report any discrepancies between this drawing and on site to the Engineer.
4. Contractor is responsible for temporary propping.

Rev.	Date	Comment	By

Project: 2 Pond Square, London N6 6BA		Scale: 1:50@A3	Job No: 1188
Client: Stephen Taylor		Drawn: AR	Drawing No: 11
Date: June 2011		Check: [Signature]	
Status: Basement Proposed		Issue: Preliminary	Revision: [Signature]

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Span of 200mm thk reinforced concrete slab to tie walls together

Section A/31

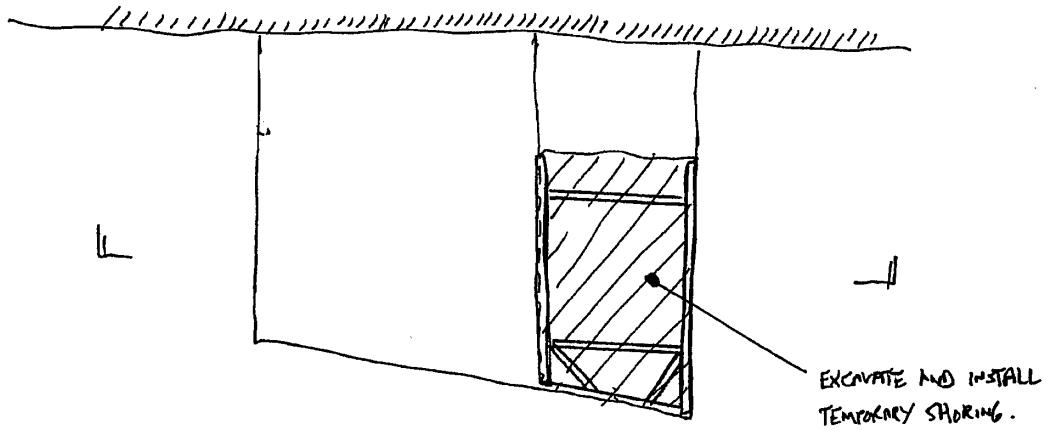
PROJECT	2 Pond Square, London N6 6BA
DESIGNER	Stephen Taylor
DATE	June 2011
STATUS	Ground Floor Proposed

SCALE	1:50@A3
DATE	June 2011
REVISION	12
STATUS	preliminary

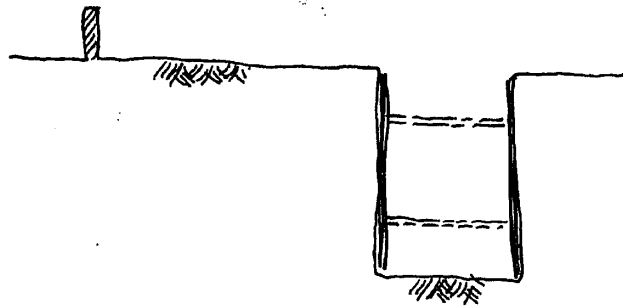
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Rev.	Date	Comment	By

Note
 1. Refer to Drawing 11 for general notes.



PLAN

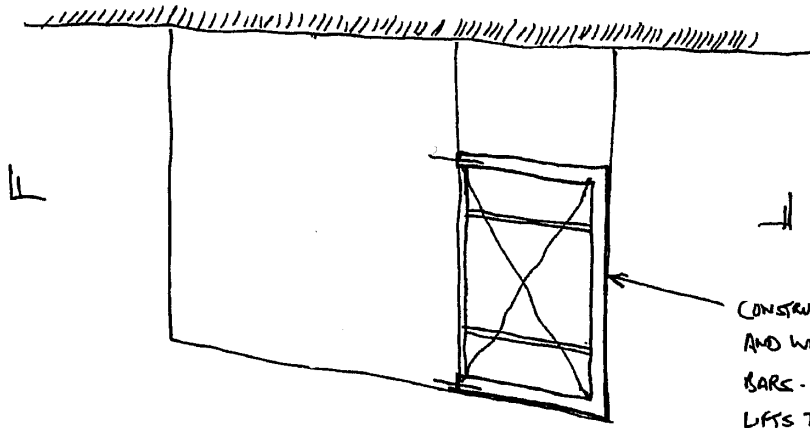


SECTION

STAGE 1 - SUGGESTED SEQUENCING .

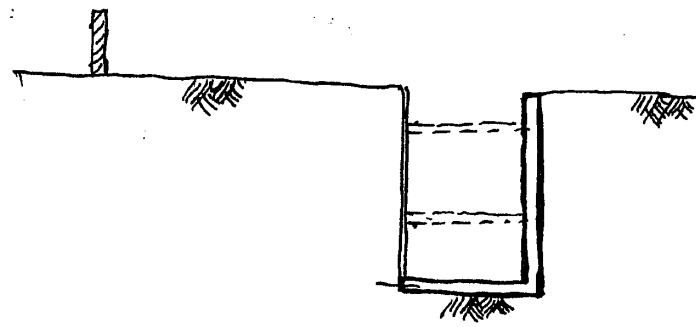
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client		drawn by	PH	drawing no	SK 01
title	SUGGESTED SEQUENCING .	date	JUNE 11		
		status		revision	

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CONSTRUCT BASEMENT SLAB AND WALL WITH STARTER BARS - CONSTRUCT IN 2 LIFTS TO MAINTAIN PROPPING.

PLAN

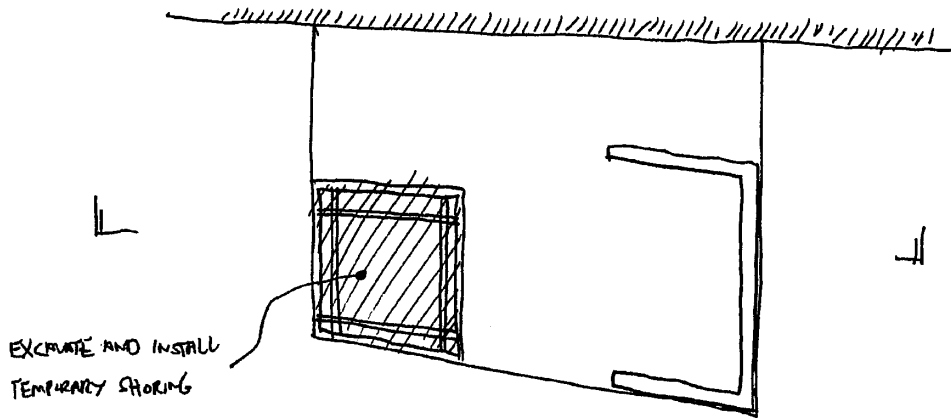


SECTION

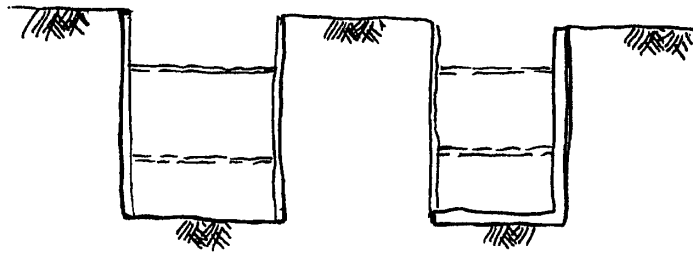
STAGE 2 - SUGGESTED SEQUENCING

project	2 pond sq	scale	MTS	job no	1188
client		drawn by	PH	drawing no	SK02
title	SUGGESTED SEQUENCING	date	JUNE 11	status	revision

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PLAN

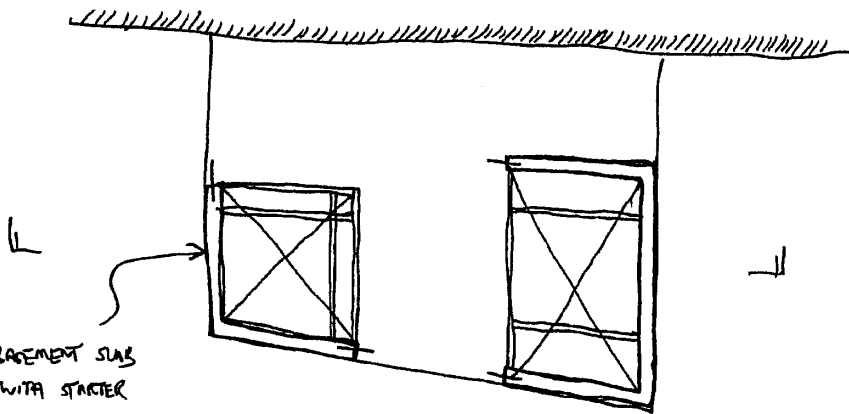


SECTION.

STAGE 3 - SUGGESTED SEQUENCING

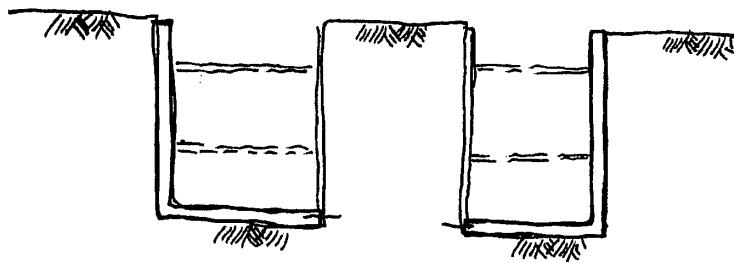
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client		drafted by	PH	drawing no	SK03
title	SUGGESTED SEQUENCING.	date	JUNE '11	status	revision

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CONSTRUCT BASEMENT SLAB
AND WALLS WITH STARTER
BARS. CONSTRUCT IN 2
LIFTS TO MAINTAIN PROPPING.

PLAN

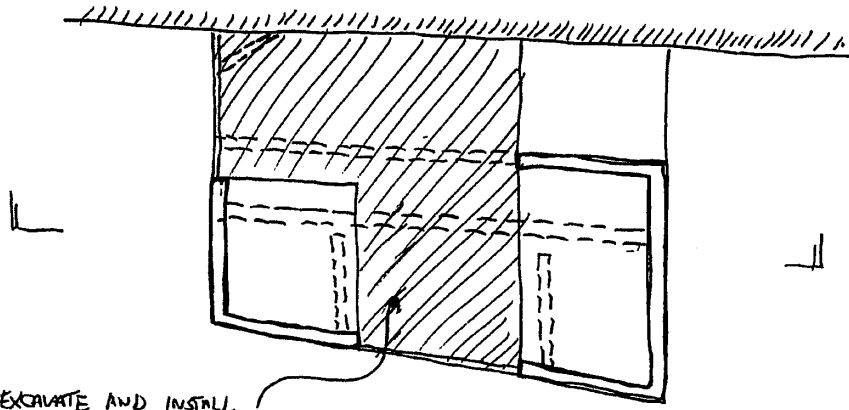


SECTION

STAGE 4 - SUGGESTED SEQUENCING.

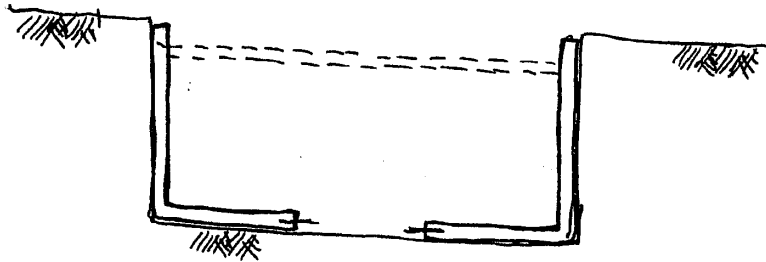
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client		drafted by	PA	drawing ref	
title	SUGGESTED SEQUENCING	date	JUNE 11		SK04
		status		revision	

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EXCAVATE AND INSTALL
TEMPORARY SHORING

PLAN



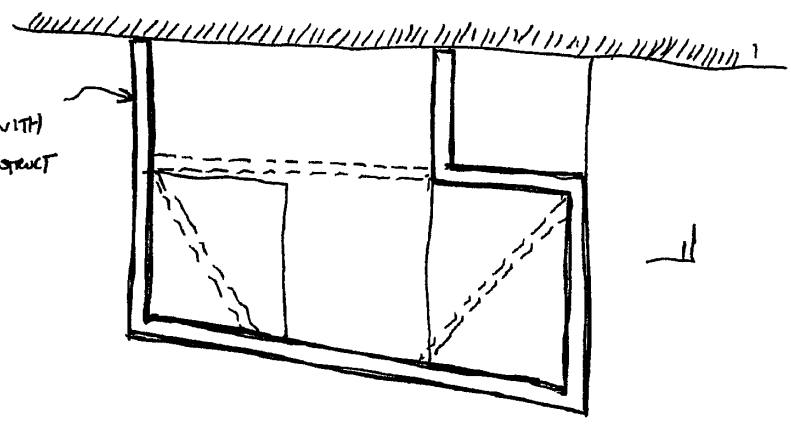
SECTION

STAGE 5 - SUGGESTED SEQUENCING

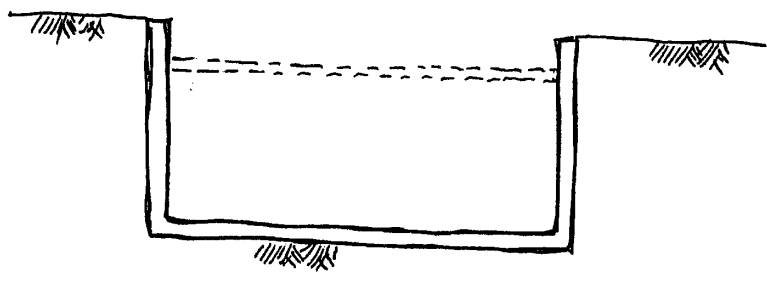
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client		drafted by	MH	drawing no	SK05
title	SUGGESTED SEQUENCING	date	JUNE '11	status	revision

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CONSTRUCT RISEMENT
SLAB AND WALLS WITH
STARTER BARS. CONSTRUCT
IN 2 LIFTS
TO MAINTAIN
PROPPING.



PLAN

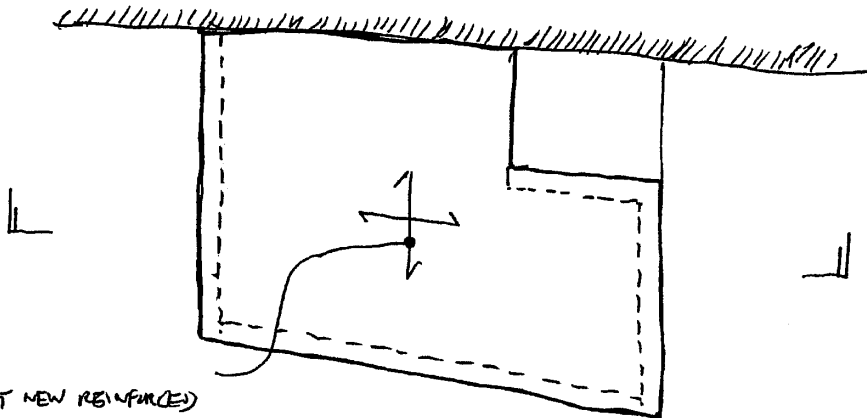


SECTION

STAGE 6 - SUGGESTED SEQUENCING

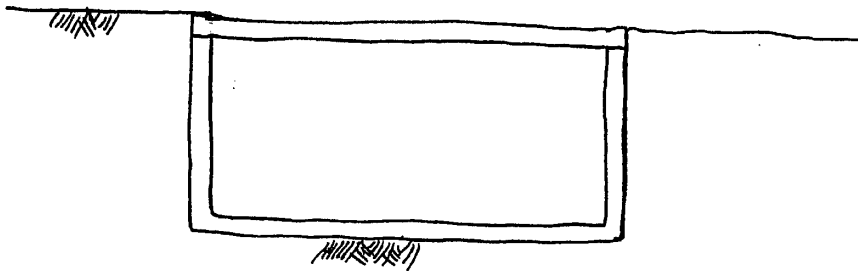
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title	SUGGESTED SEQUENCING	date	JUNE 11	status	revision

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CAST NEW REINFORCE)
CONCRETE SLAB.

PLAN



SECTION.

STAGE 7 - SUGGESTED SEQUENCING.

project	2 POND SR.	scale	NTS	job no	1188
client		drawn by	PH	drawing no	SK07
title	SUGGESTED SEQUENCING.	date	JUNE 11	status	revision

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