

SCS SYSTEM FORMWORK



S. P. MULIA SDN BHD
Bridges & Reservoirs Contractor



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SCS SYSTEM FORMWORK INTRODUCTION

- ❑ SCS Steel formwork is an engineered formwork system used to **replace timber formwork**.
- ❑ **Excellent Durability** and it can be reused many times.
- ❑ **High effectiveness**, rapid dismantling installation and concreting.
- ❑ Can **customize concrete surface texture** with SCS Rubber Mould.



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SCS SYSTEM FORMWORK ADVANTAGES

Eco-Friendly



SCS System Formwork



Ordinary Timber Formwork



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SCS SYSTEM FORMWORK ADVANTAGES

Excellent Durability

Steel Surface

New



Used over 100 Times



Used over 200 times



Concrete Surface



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Able to use up to **2000** times with proper maintenance.

SCS SYSTEM FORMWORK ADVANTAGES

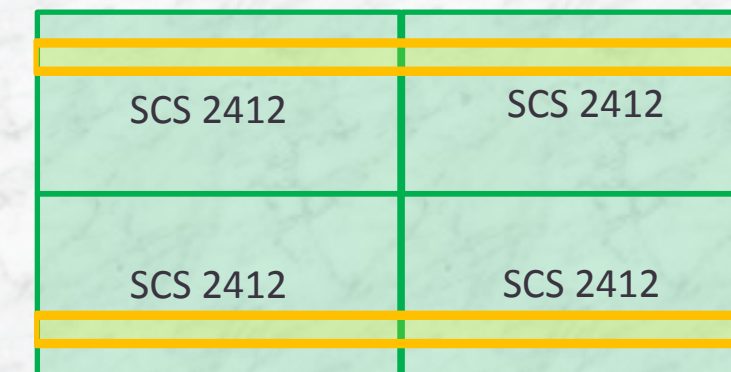
Enhance Time & Cost Effectiveness



Example of project at
Kempas Interchange

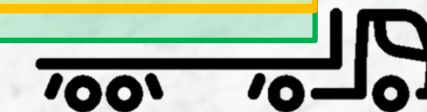
1. Placed the assembled formwork on truck

09:30am



2. The formwork arrived at site.

10:30am



3. Lifted the steel mould and stabilized by using adjustable prop.

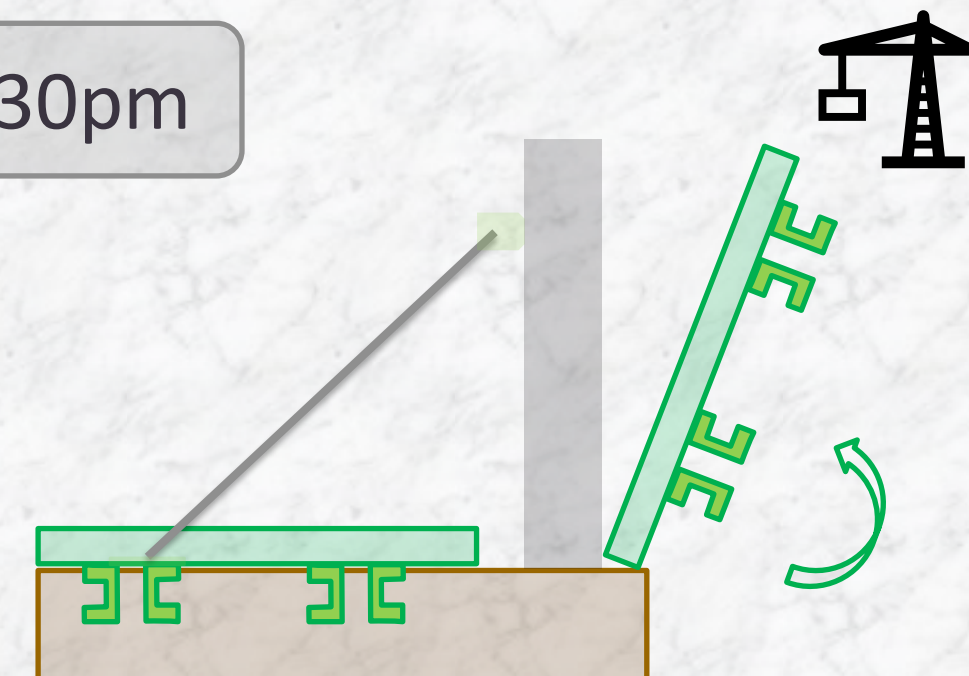
01:30pm

4. Poured fresh concrete and compact.

2:30pm



This process can be done **within a day!**



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SCS SYSTEM FORMWORK ADVANTAGES

Height is not a limit



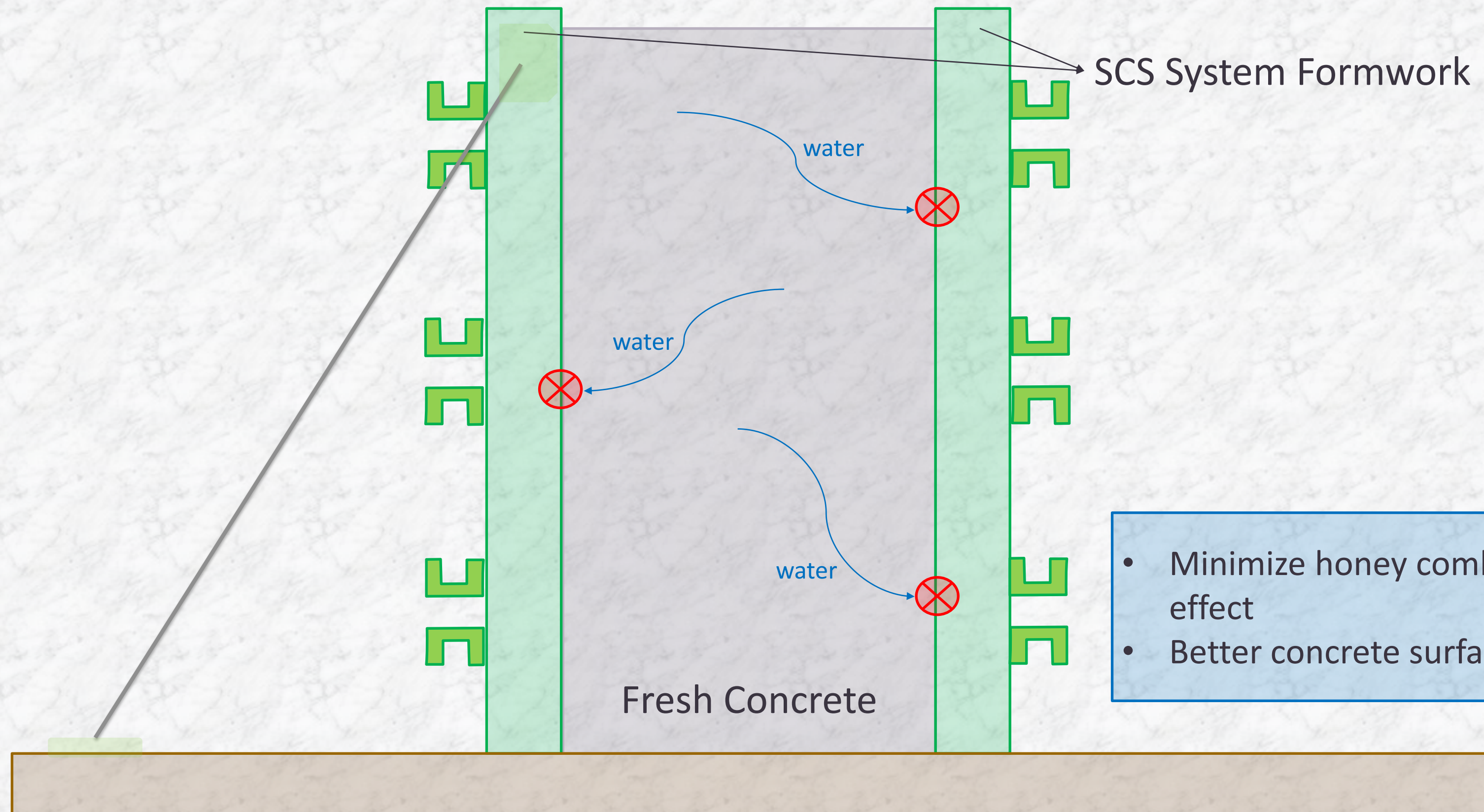
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SCS SYSTEM FORMWORK ADVANTAGES

Impermeable material



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- Minimize honey comb effect
- Better concrete surface

SCS SYSTEM FORMWORK ADVANTAGES

SCS System Formwork



Excellent Concrete Surface

Typical Formwork



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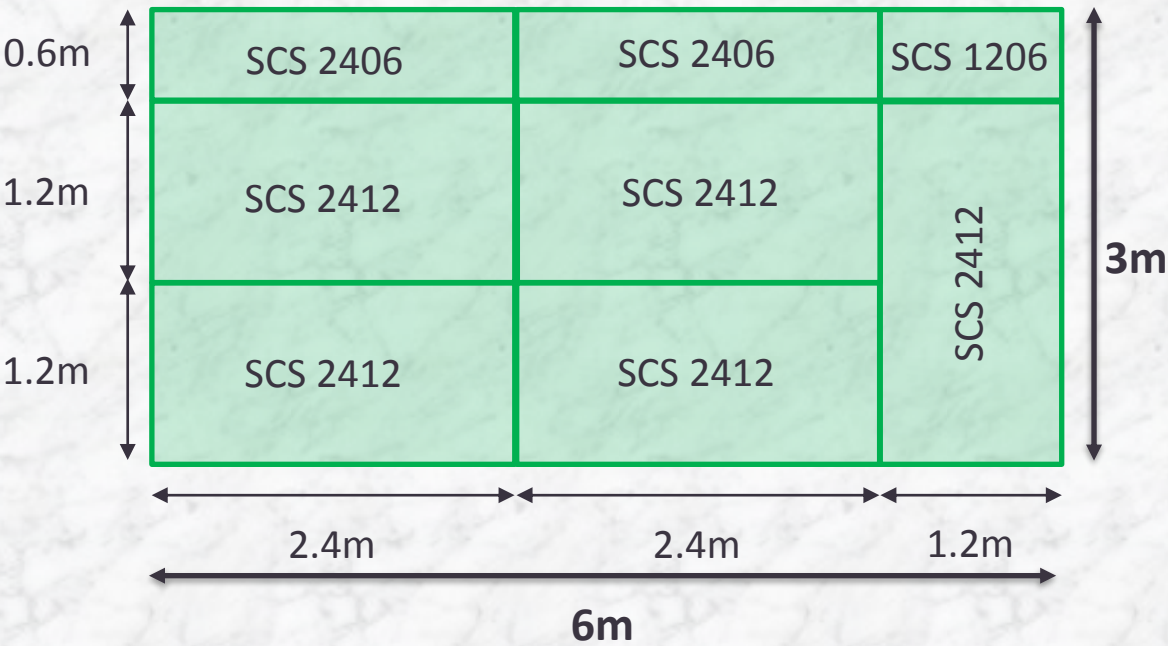
SCS SYSTEM FORMWORK DETAILS

STANDARD

1. SCS STANDARD STEEL FORMWORK			
TYPE	DIMENSION		
	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
SCS 0606	600	600	53
SCS 1206	1200	600	53
SCS 1806	1800	600	53
SCS 2406	2400	600	53
SCS 1212	1200	1200	53
SCS 1812	1800	1200	53
SCS 2412	2400	1200	53



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Example of casting a 6m x 3m wall

- x5 SCS 2412
- x2 SCS 2406
- x1 SCS 1206

SCS SYSTEM FORMWORK DETAILS

NON-STANDARD



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2. SCS NON-STANDARD STEEL FORMWORK

TYPE	DIMENSION		
	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
SCS 1200.5	1200	50	53
SCS 1201	1200	100	53
SCS 1201.5	1200	150	53
SCS 1202	1200	200	53
SCS 1202.5	1200	250	53
SCS 1203	1200	300	53
SCS 1203.5	1200	350	53
SCS 1204	1200	400	53
SCS 1204.5	1200	450	53
SCS 1205	1200	500	53
SCS 1205.5	1200	550	53

❑ The **dimension** of the SCS System Formwork **can be varied** based on the requirement of the projects.

SCS SYSTEM FORMWORK DETAILS

REMOVABLE

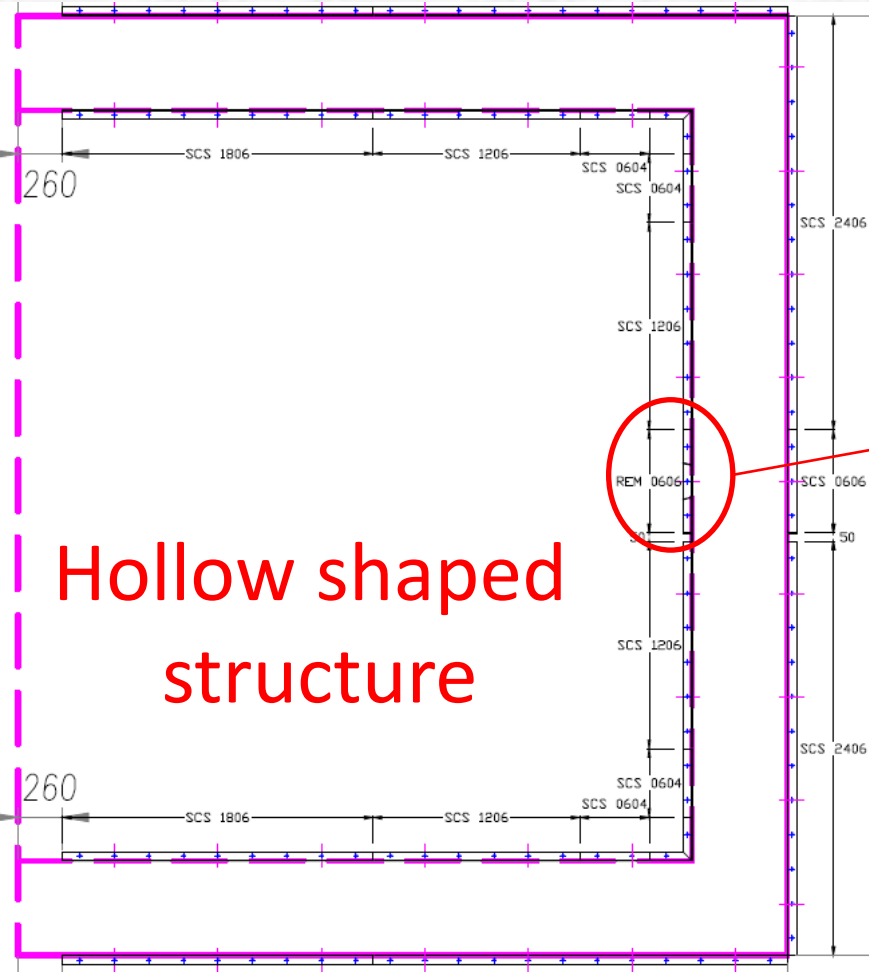
3. SCS REMOVABLE STEEL FORMWORK			
TYPE	DIMENSION		
	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
REM 0606	600	600	53
REM 1206	1200	600	53



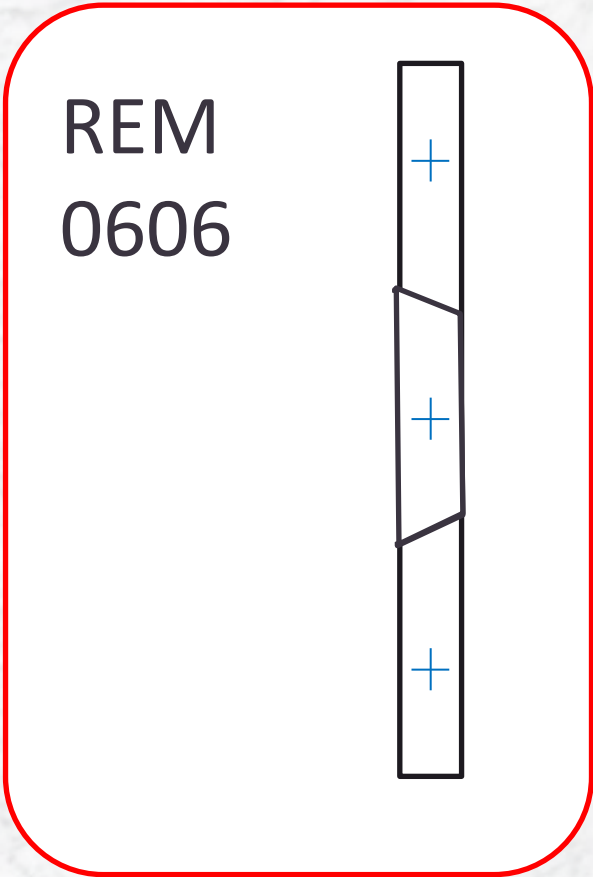
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Hollow shaped
structure



- SCS Removable steel formwork is designed to fit internal RC wall
- The tapered end shape can ease the dismantling process.

SCS SYSTEM FORMWORK DETAILS

ANGLE

4. SCS ANGLE STEEL FORMWORK			
TYPE	DIMENSION		
	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
ANGLE 0602.5	600	250	53
ANGLE 1202.5	1200	250	53



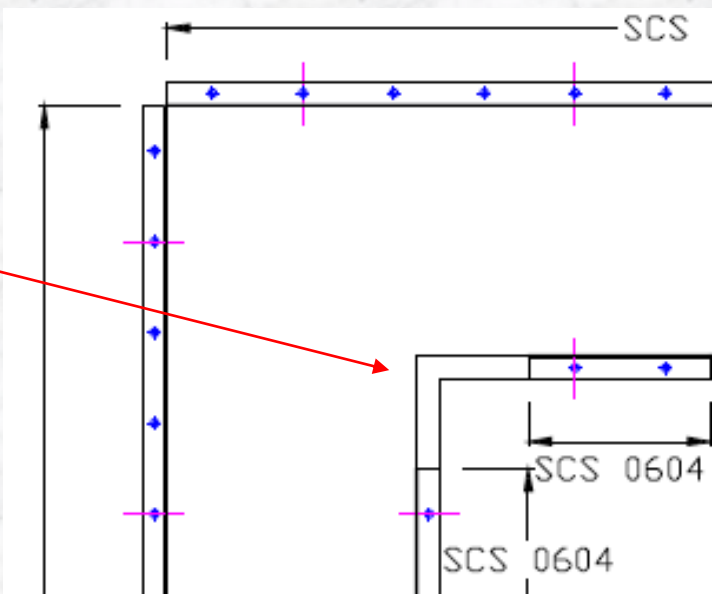
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Zoom



SCS SYSTEM FORMWORK DETAILS

CHAMFER

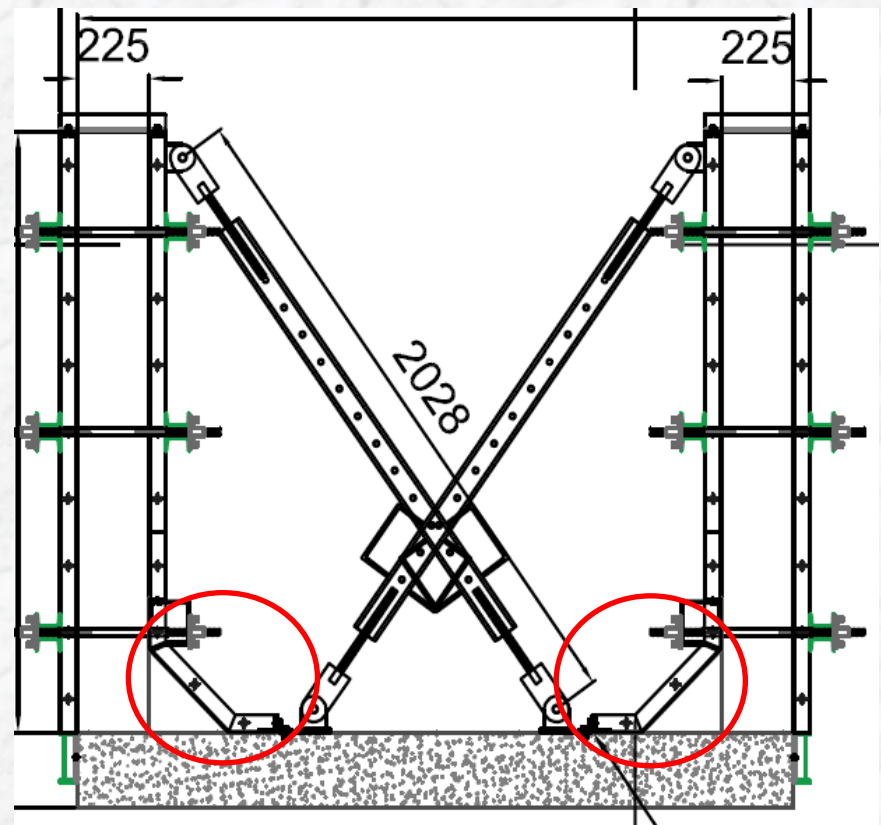
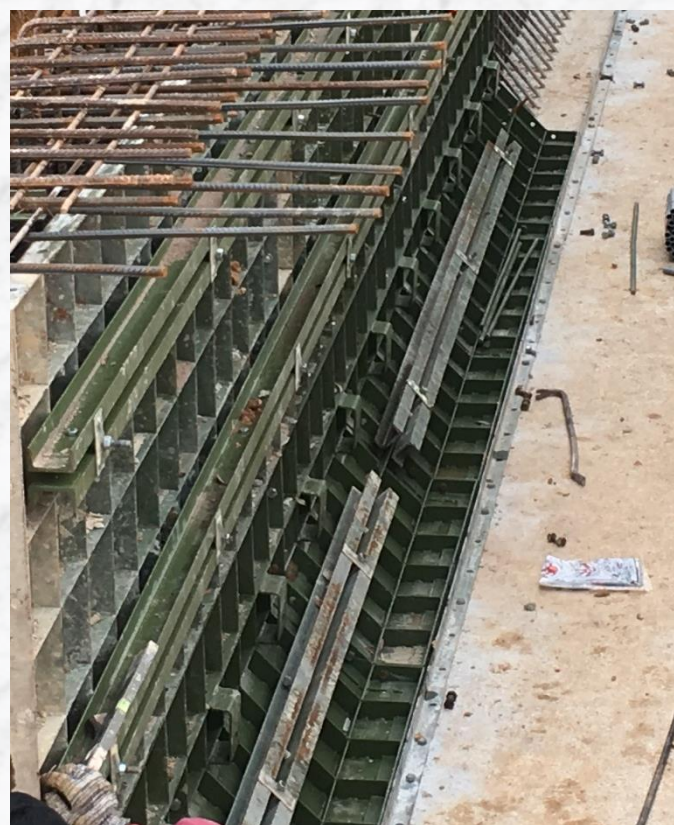
5. SCS CHAMFER STEEL FORMWORK			
TYPE	DIMENSION		
	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)
CF 250	250	250	53



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SCS SYSTEM FORMWORK DETAILS

COLUMN

6. SCS COLUMN STEEL FORMWORK

TYPE	DIMENSION	
	DIAMETER (mm)	HEIGHT (m)
CIRCULAR	500	1-3
CIRCULAR	600	1-3
CIRCULAR	700	1-3
CIRCULAR	800	1-3
CIRCULAR	900	1-3
CIRCULAR	1000	1-3
CIRCULAR	1100	1-3
CIRCULAR	1200	1-3



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SCS SYSTEM FORMWORK DETAILS

COLUMN

6. SCS COLUMN STEEL FORMWORK			
TYPE	DIMENSION		
	LENGTH (mm)	WIDTH (mm)	HEIGHT (m)
RECTANGULAR	300	450	0.6, 1.2, 1.8, 2.4
RECTANGULAR	600	1200	0.6, 1.2, 1.8, 2.4



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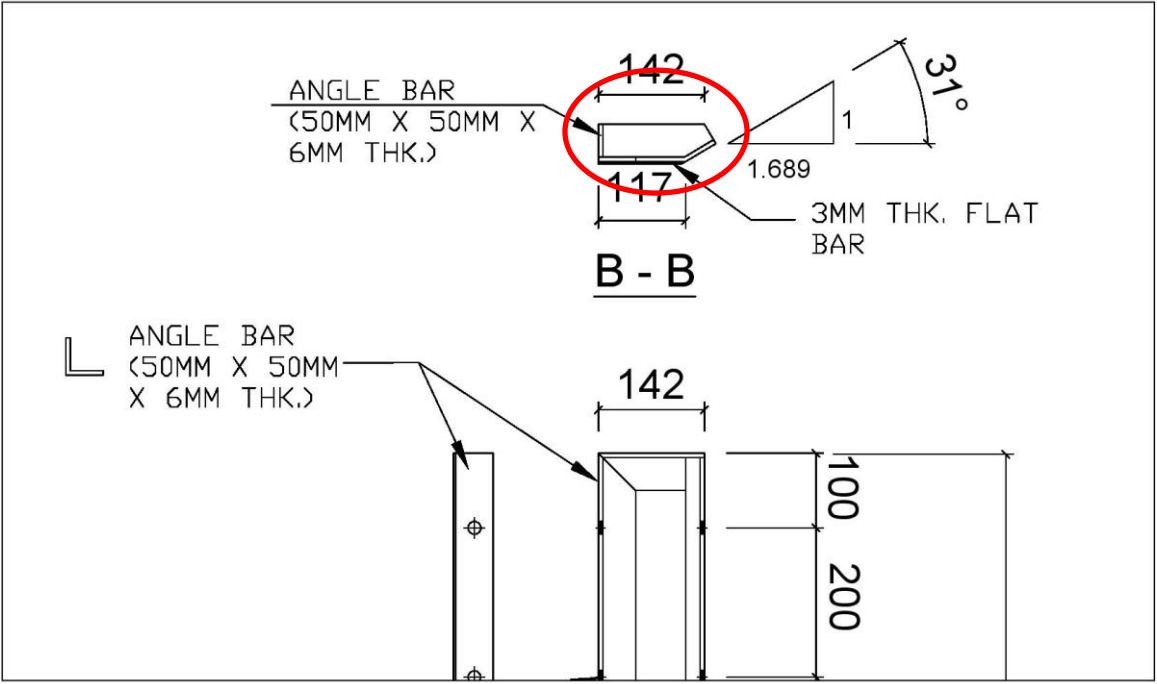
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SCS SYSTEM FORMWORK DETAILS

SKEW

7. SCS SKEW STEEL FORMWORK			
TYPE	DIMENSION		
	LENGTH (mm)	WIDTH (mm)	ANGLE (°)
SCS 1200.75 <69°	1200	75	69
SCS 1200.75 <50°	1200	75	50



❑ Special made for skew angle.

SCS SYSTEM FORMWORK APPLICATION

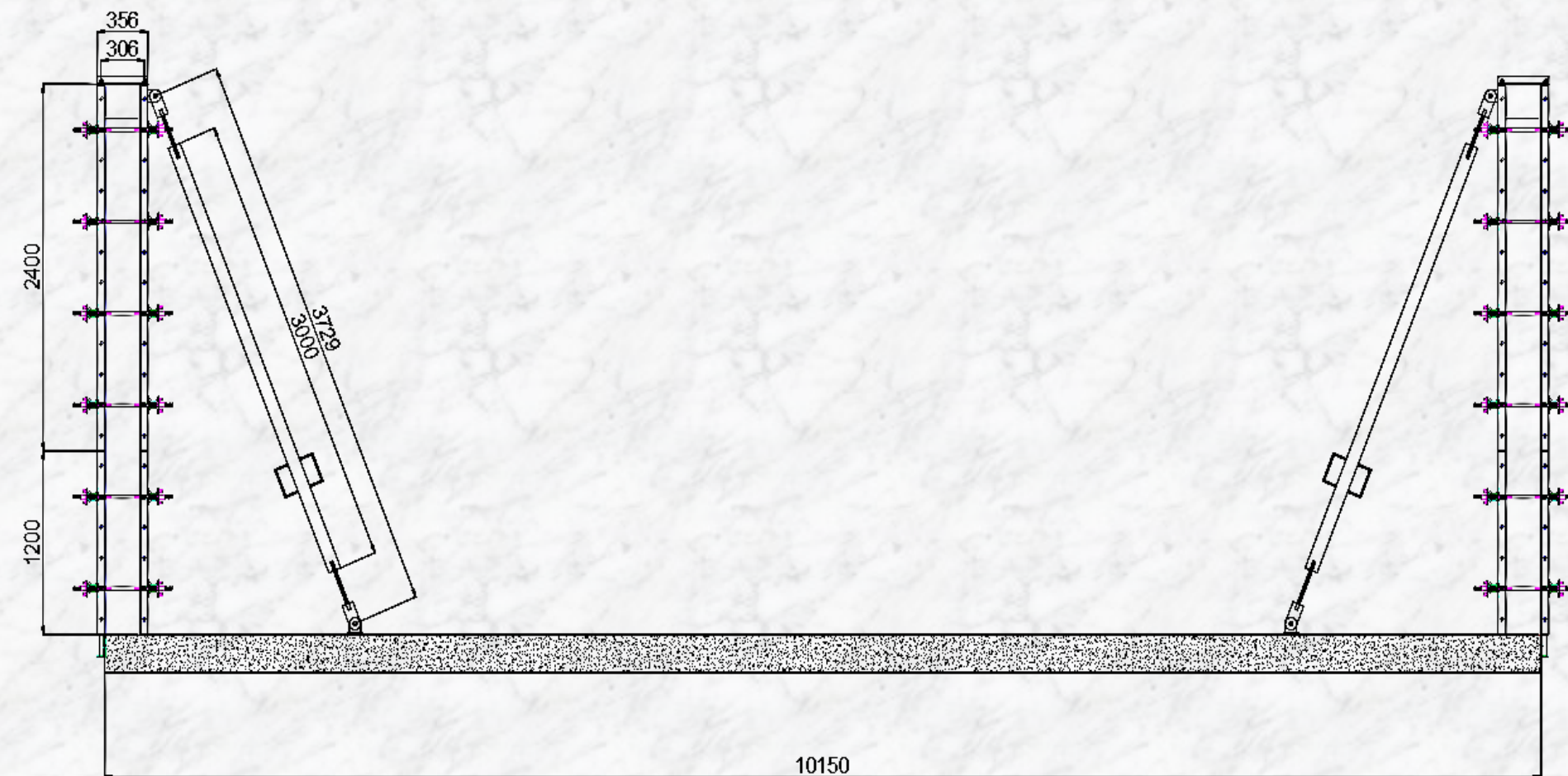
BURIED LPG TANK



Before Concreting



After Concreting



SECTIONAL VIEW



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SOUTHKEY

SCS SYSTEM FORMWORK APPLICATION

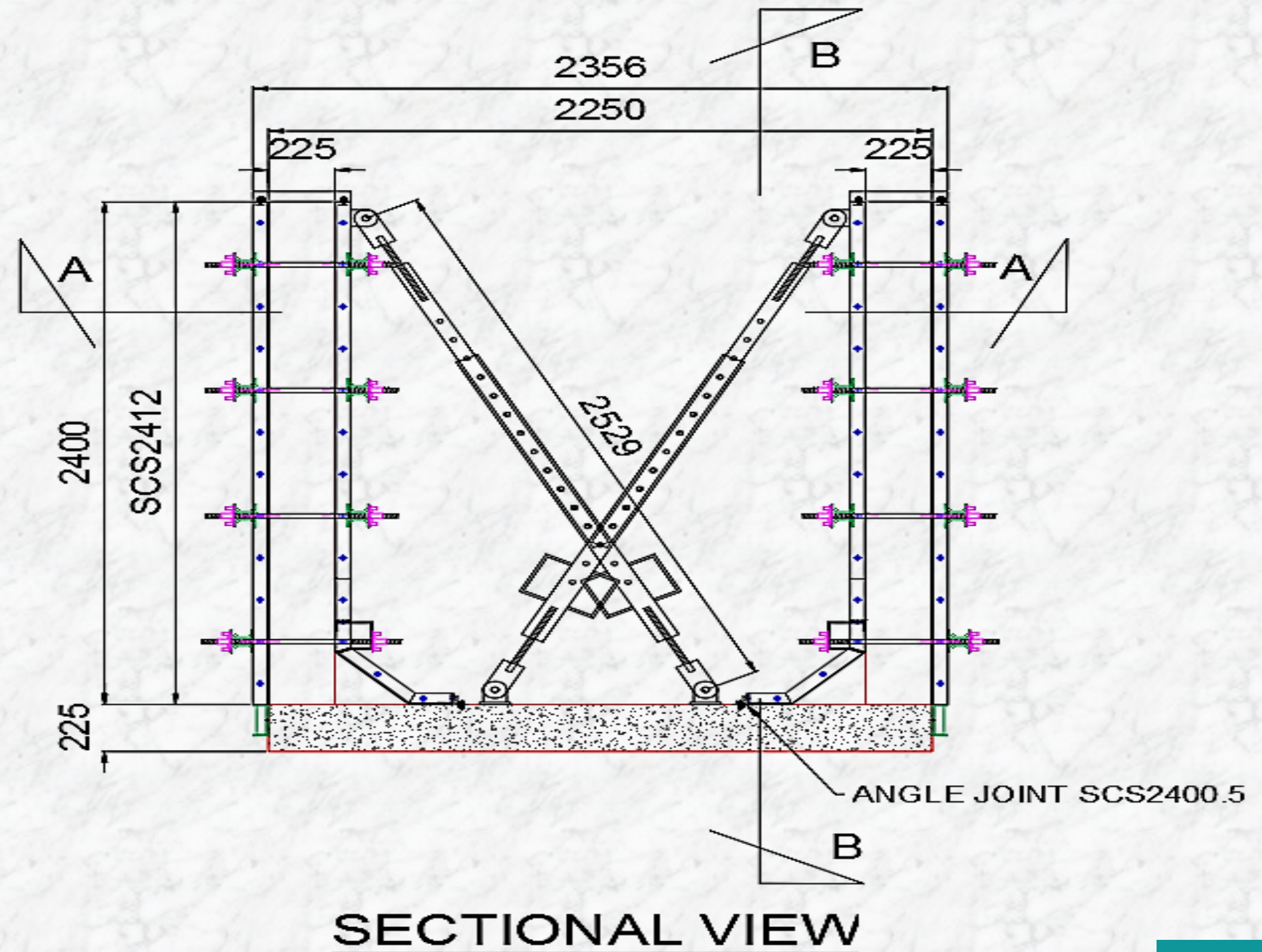
BOX CULVERT



Before Concreting



After Concreting



SECTIONAL VIEW



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Taman Impian Emas

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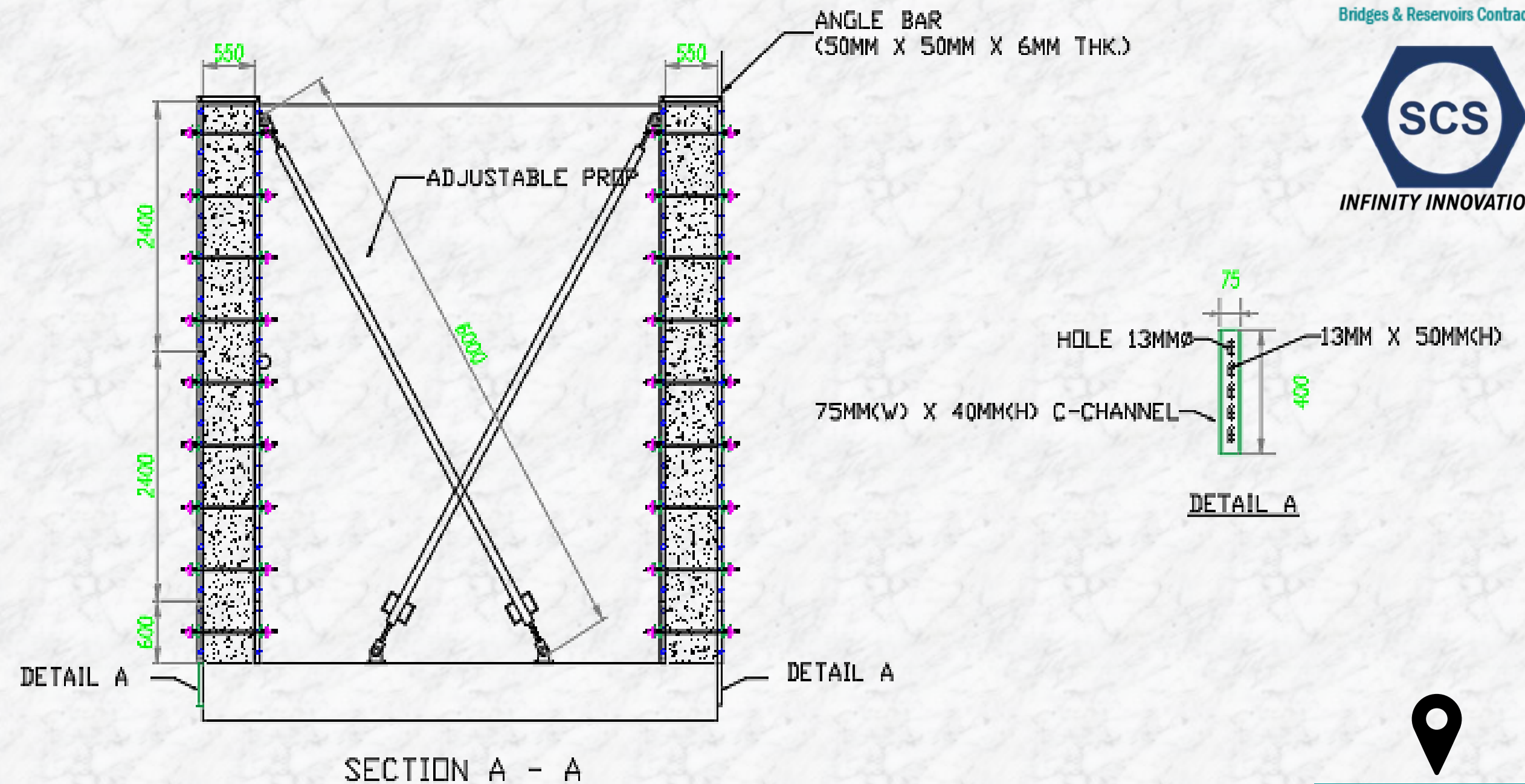
PUMP SUMP



Before Concreting



After Concreting



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IKEA Terbau

SCS SYSTEM FORMWORK APPLICATION

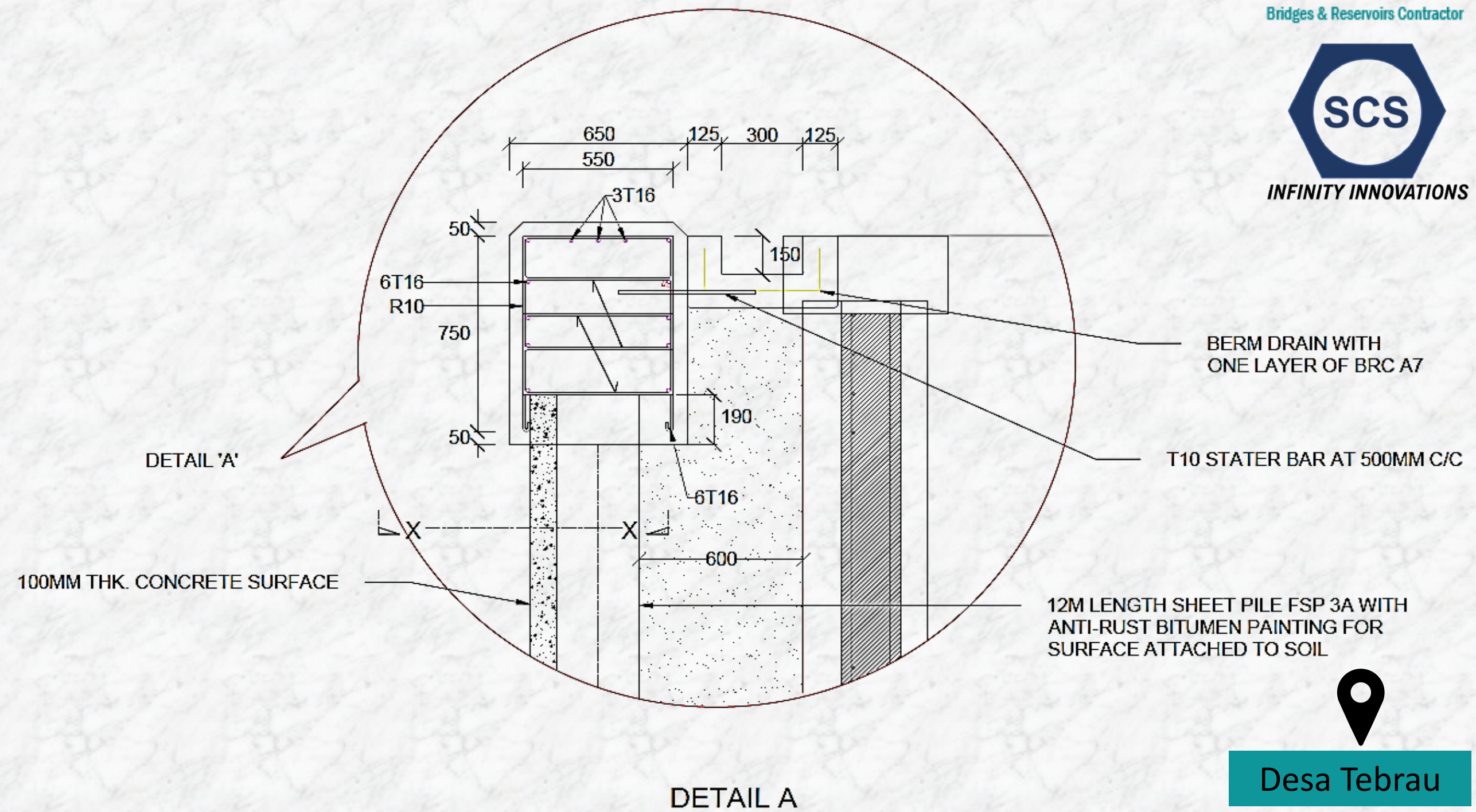
FACIAL WALL FOR SHEET PILE



Before Concreting



After Concreting



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Desa Tebrau

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BRIDGE FOUNDATION



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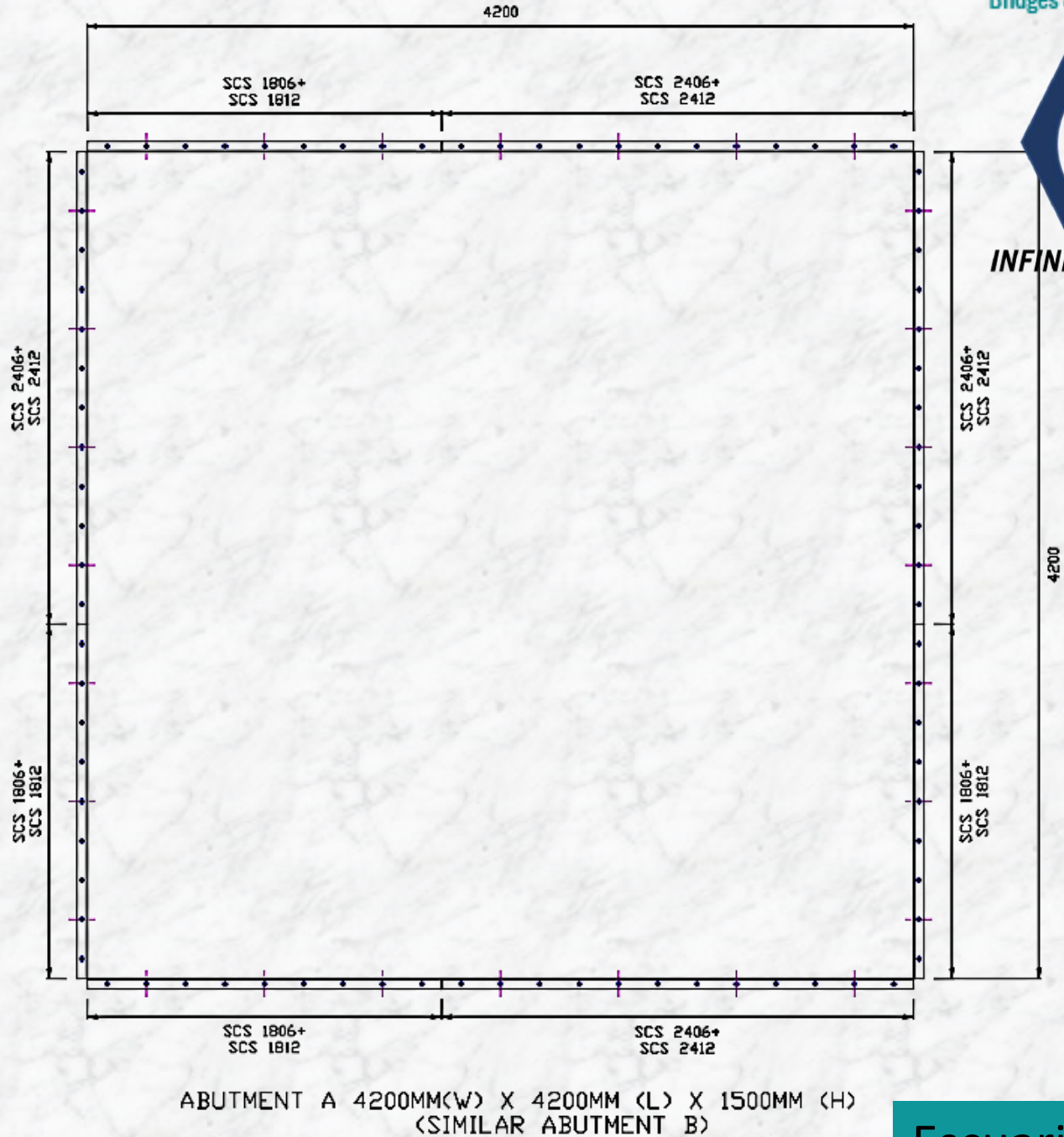
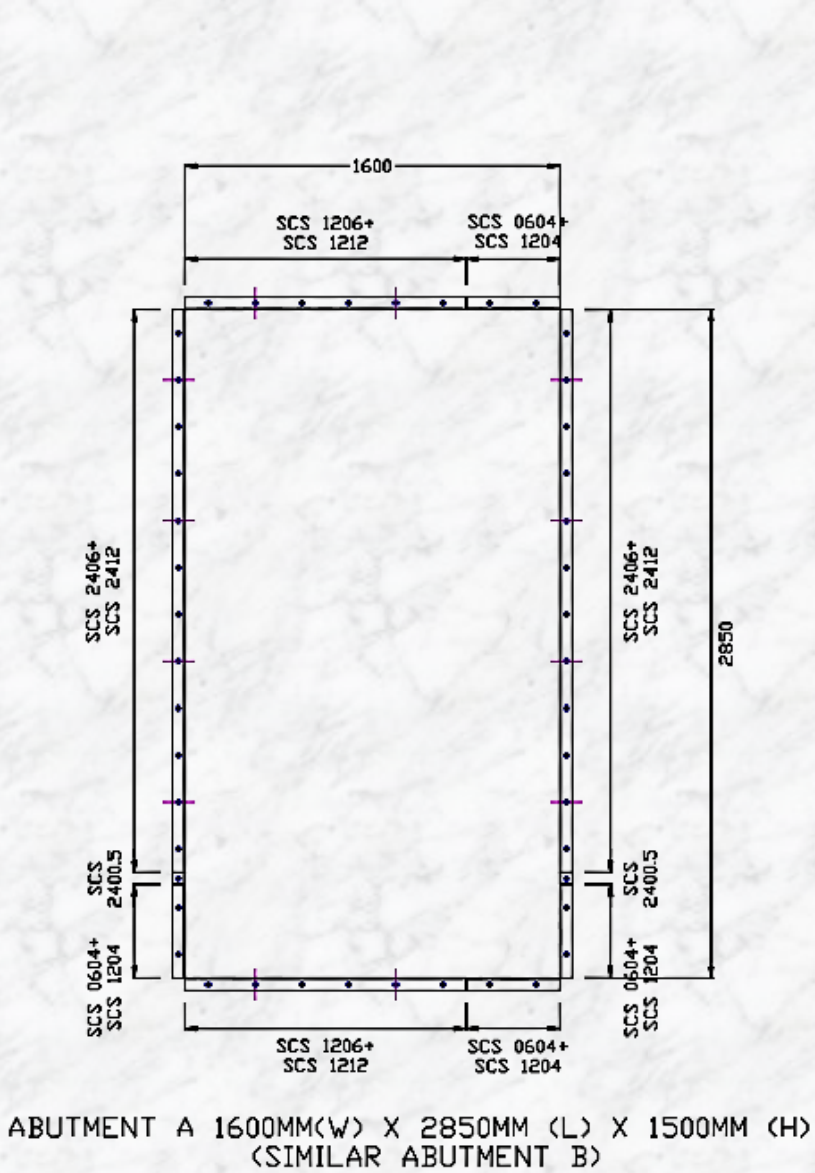
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Before Concreting



After Concreting



SCS SYSTEM FORMWORK APPLICATION

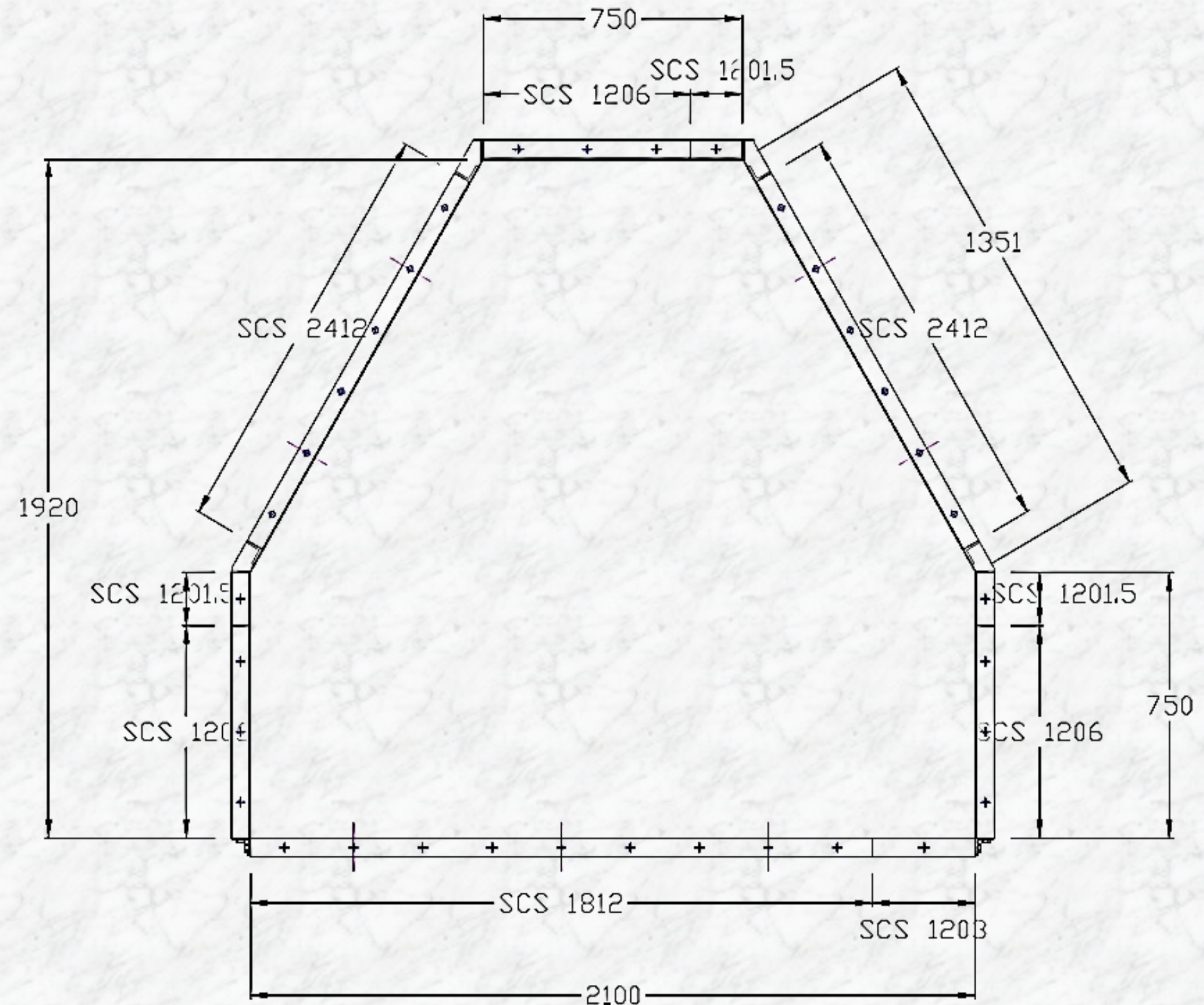
PILE CAP



Before Concreting



After Concreting



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Muar

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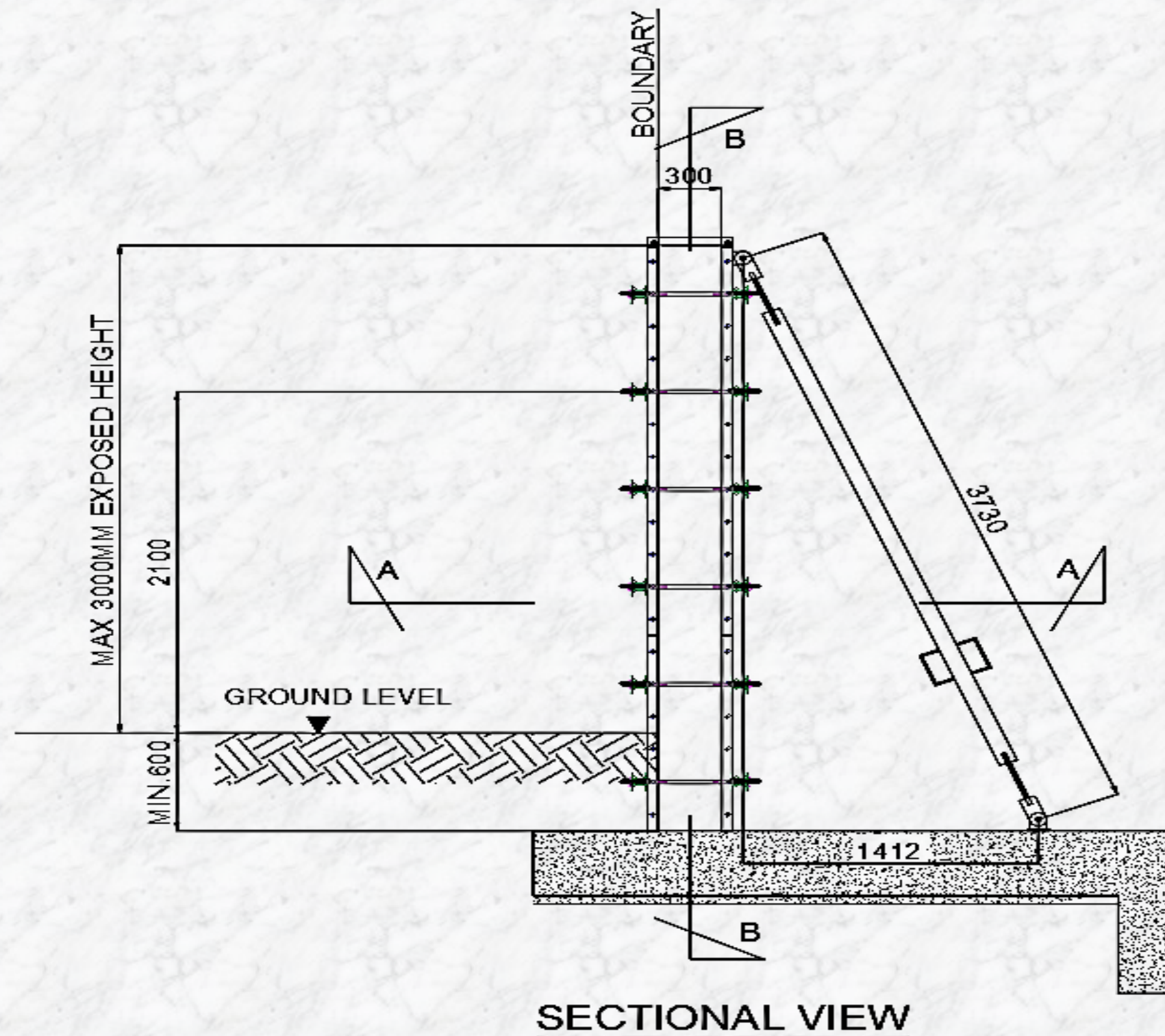
RETAINING WALL



Before Concreting



After Concreting



SCS SYSTEM FORMWORK APPLICATION

Before Concreting



RETAINING WALL

After Concreting



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Mount Austin

SCS SYSTEM FORMWORK APPLICATION

CIRCULAR COLUMN

Before Concreting



After Concreting



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JPJ Muar

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RECTANGULAR COLUMN

Before Concreting



After Concreting



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Sengkang Kulai

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RIVER WALL

Before Concreting



After Concreting



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SG. Segget

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PARAPET WALL

Before Concreting



After Concreting



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SG. Karas

SCS SYSTEM FORMWORK APPLICATION

Can be used on:



1. Building Facade
2. Retaining Walls
3. Flood Wall
4. Noise Barriers
5. Parapet Wall
6. Skin Wall
7. Signage Wall
8. Perimeter Fencing



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THANK YOU



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