

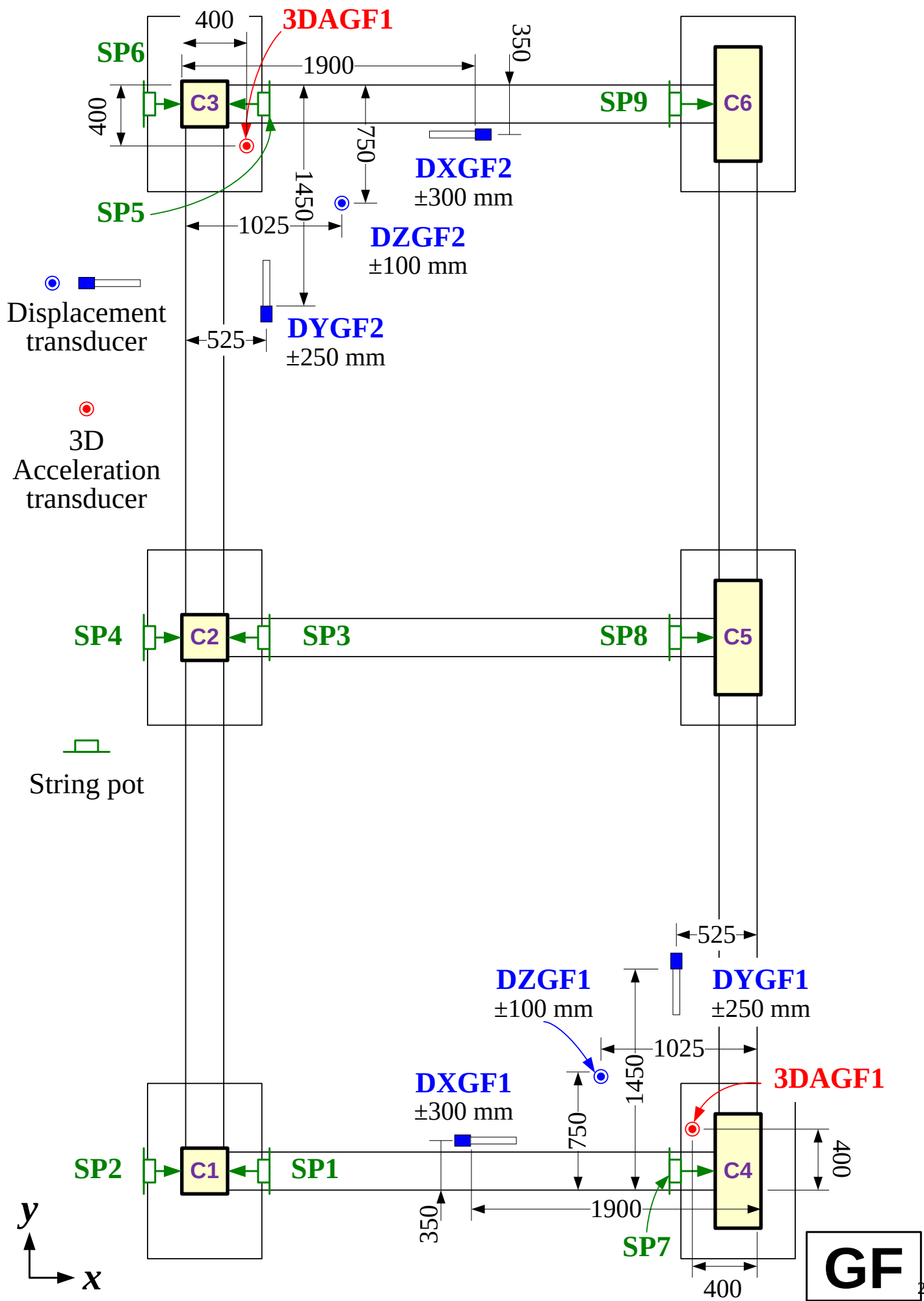
國震中心臺南實驗室啟動實驗---量測系統

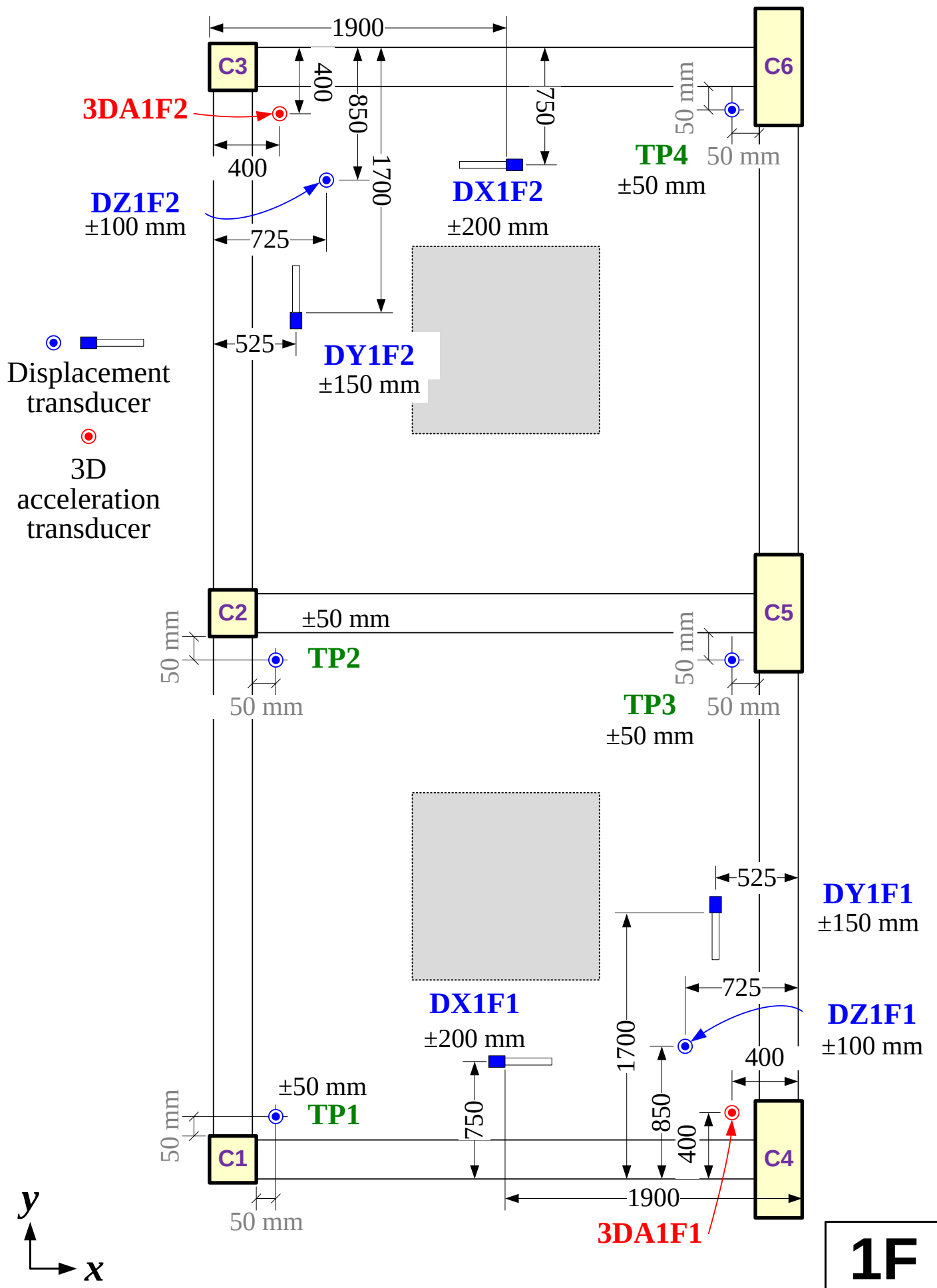
2018 年 11 月國際競賽測試

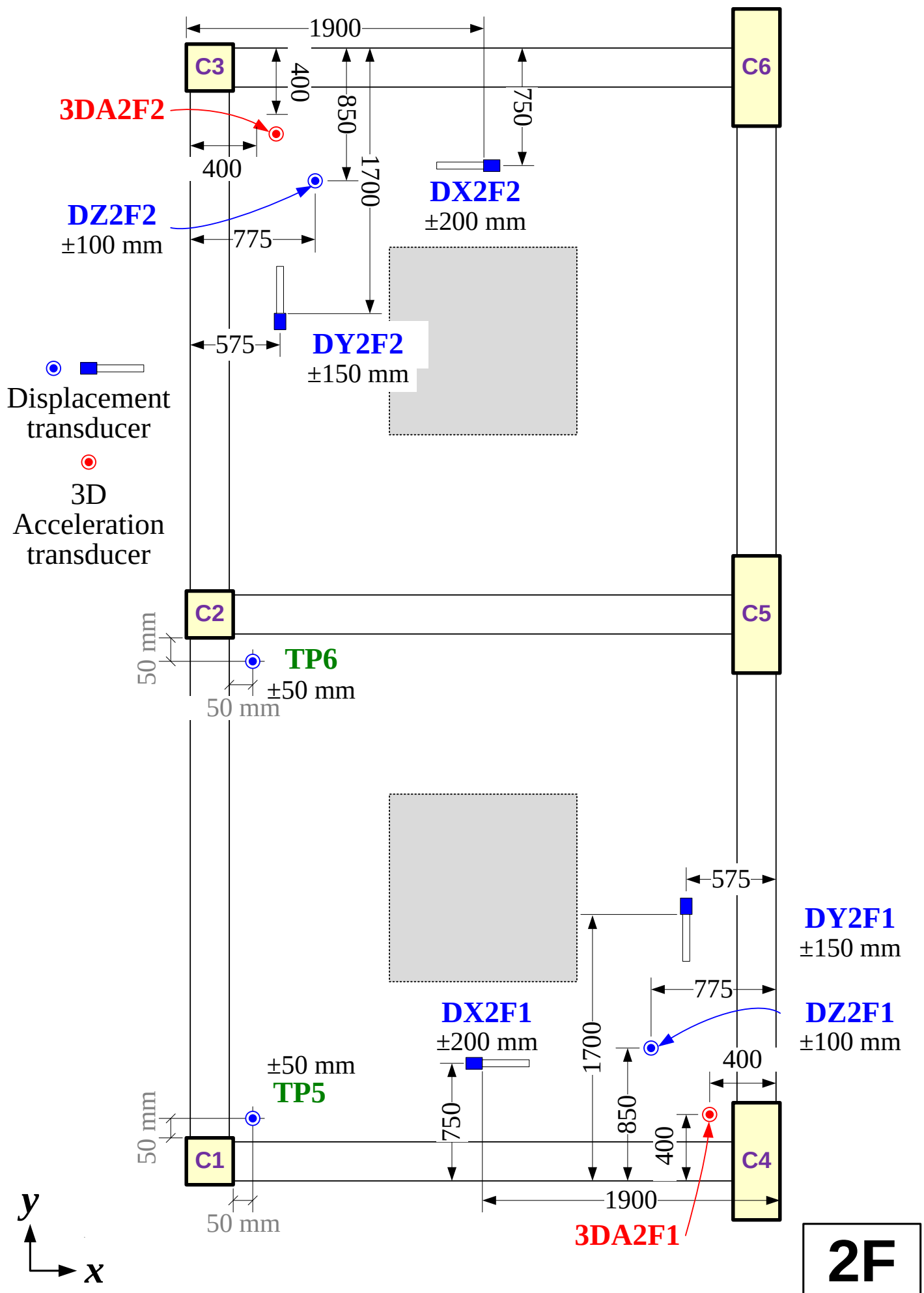
預計執行 7 層樓鋼筋混凝土建築構架振動台實驗，可分為遠域地震及近斷層效應兩種主要測試

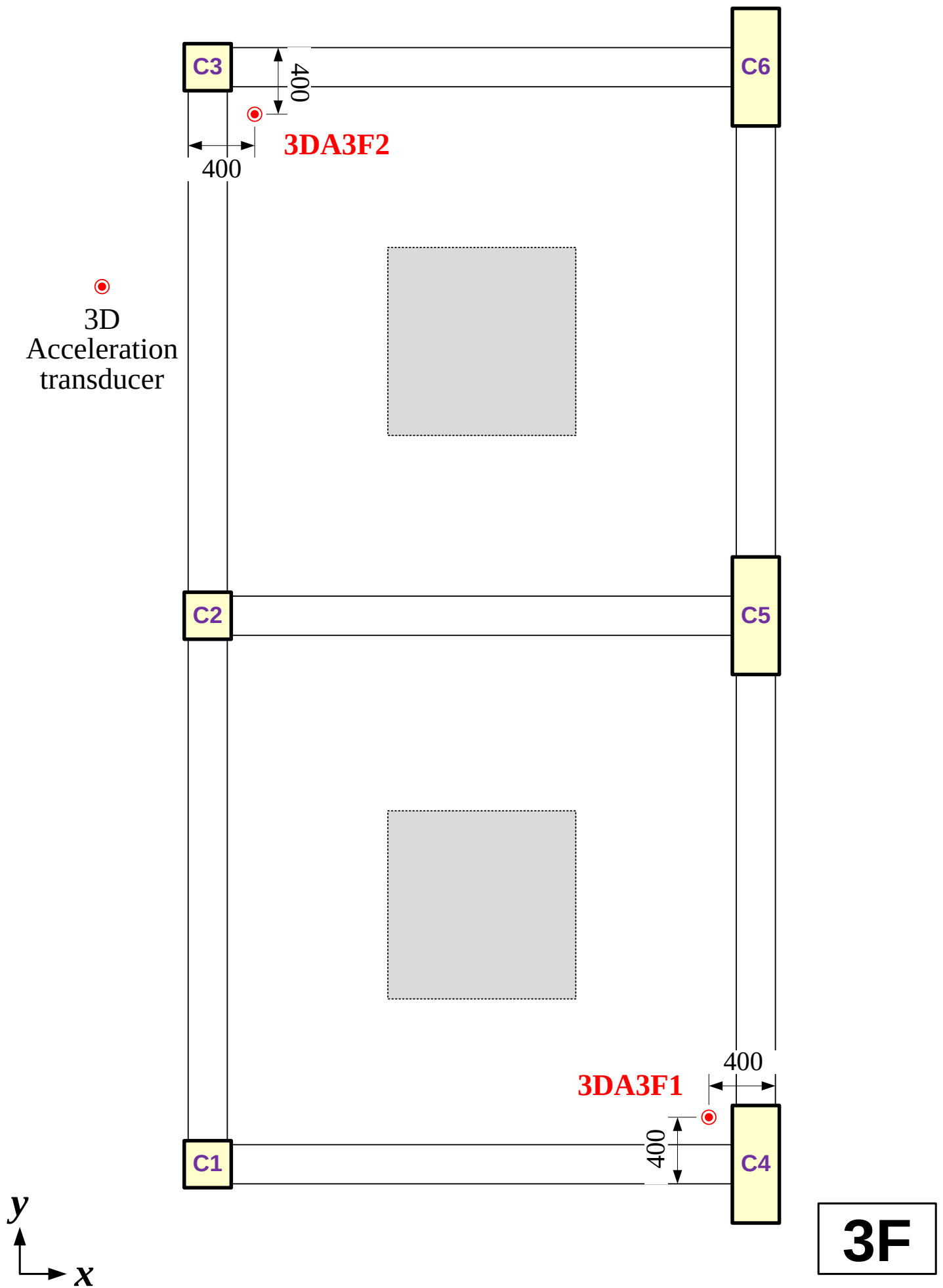
儀器需求表

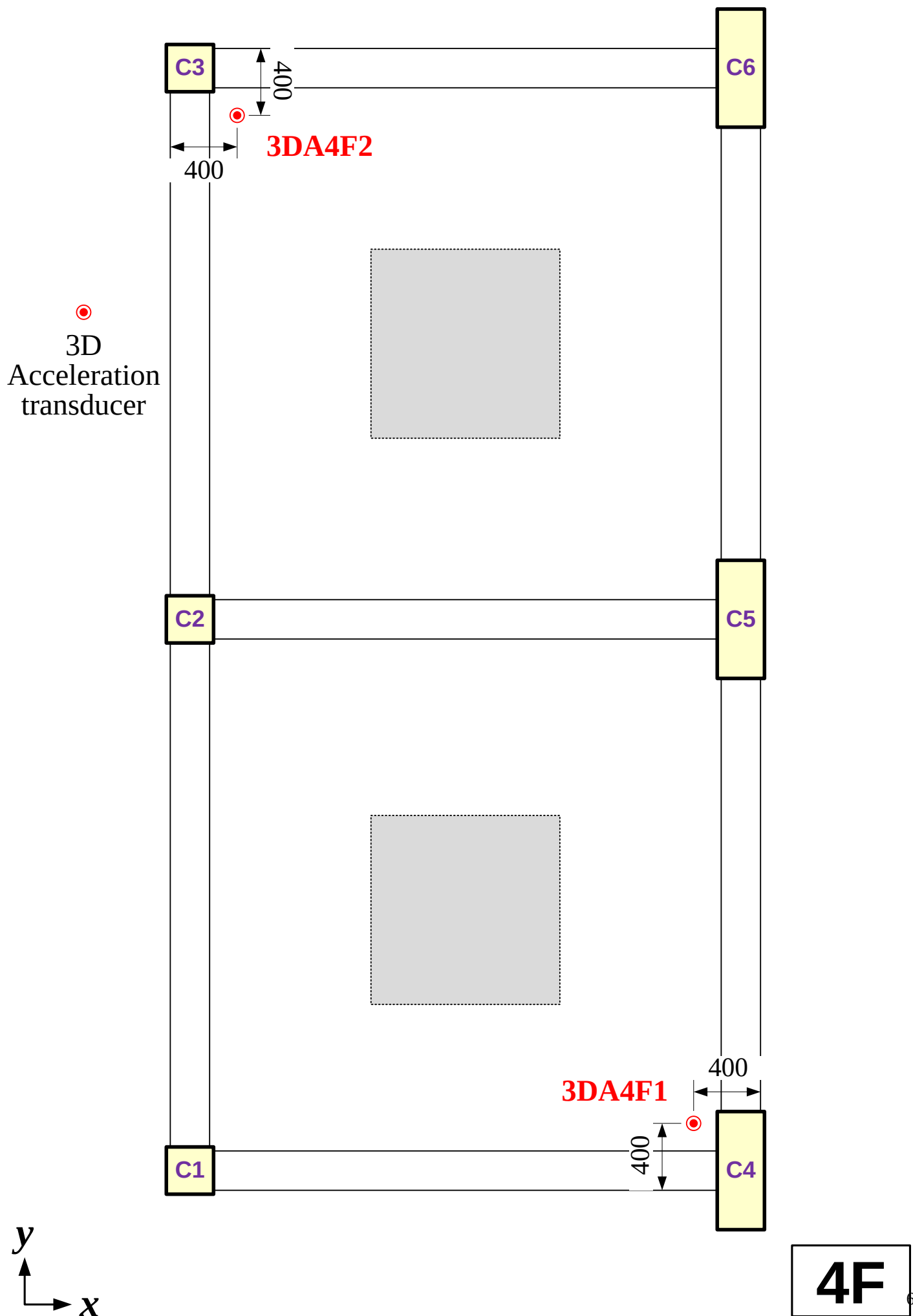
項目	規格	數量	頻道數	線材需求	備註
三軸向 加速規		16	48	3 條 60 m 12 條 50 m 12 條 40 m 12 條 30 m 9 條 20 m	
位移計 (Tempo II)	600 mm (±300 mm)	2	2	2 條 20 m	
位移計 (Tempo II)	500 mm (±250 mm)	2	2	2 條 20 m	
位移計 (Tempo II)	400 mm (±200 mm)	4	4	4 條 30 m	
位移計 (Tempo II)	300 mm (±150 mm)	4	4	2 條 40 m 2 條 30 m	
位移計 (Tempo II)	200 mm (±100 mm)	6	6	2 條 40 m 2 條 30 m 2 條 20 m	
位移計 (Tempo II)	100 mm (±50 mm)	6	6	3 條 30 m 3 條 20 m	
拉線式 位移計	500 mm (±250 mm)	9	9	9 條 20 m	
應變計		210	210		
MOCAP Marker					
總頻道數					

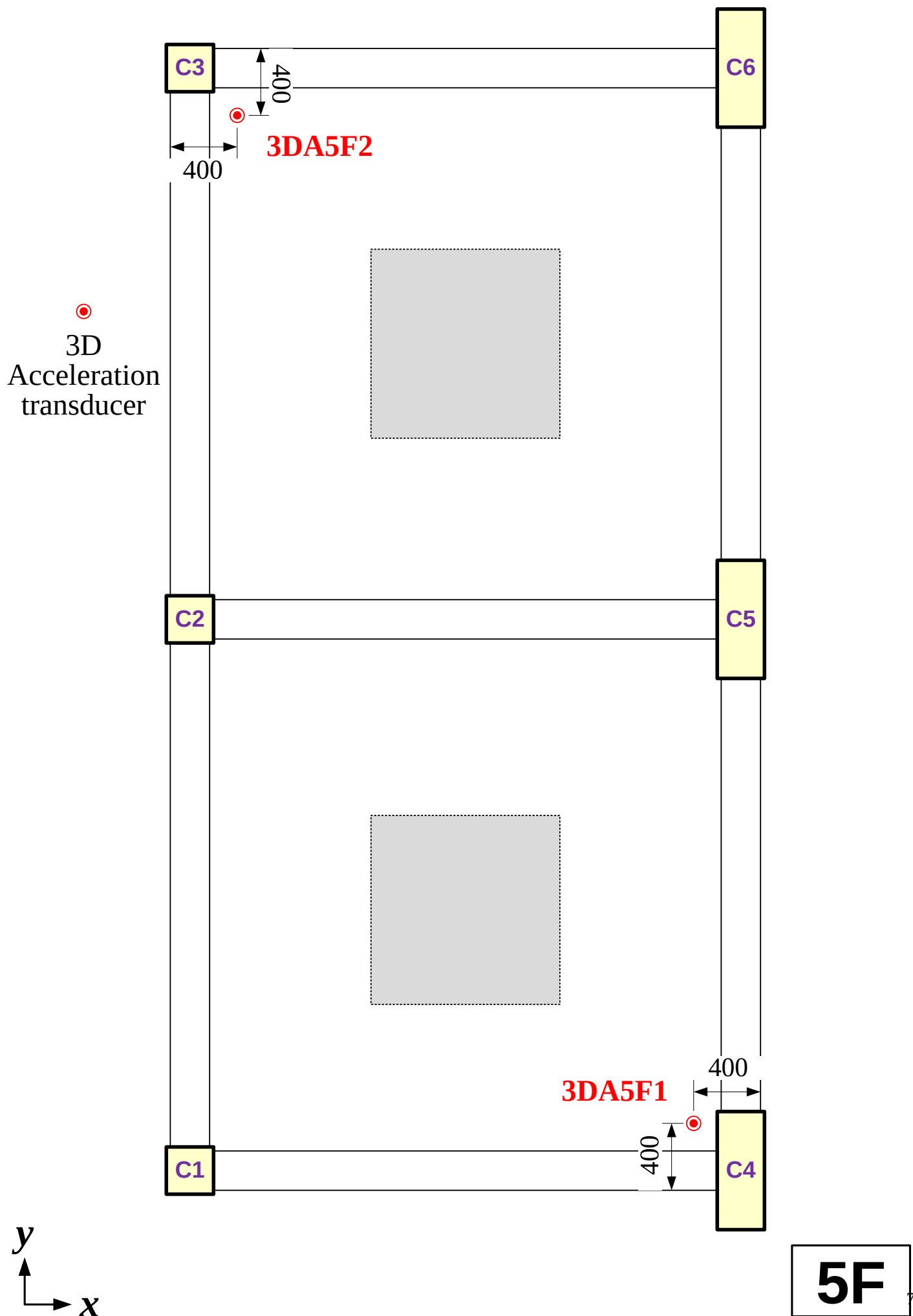


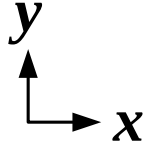




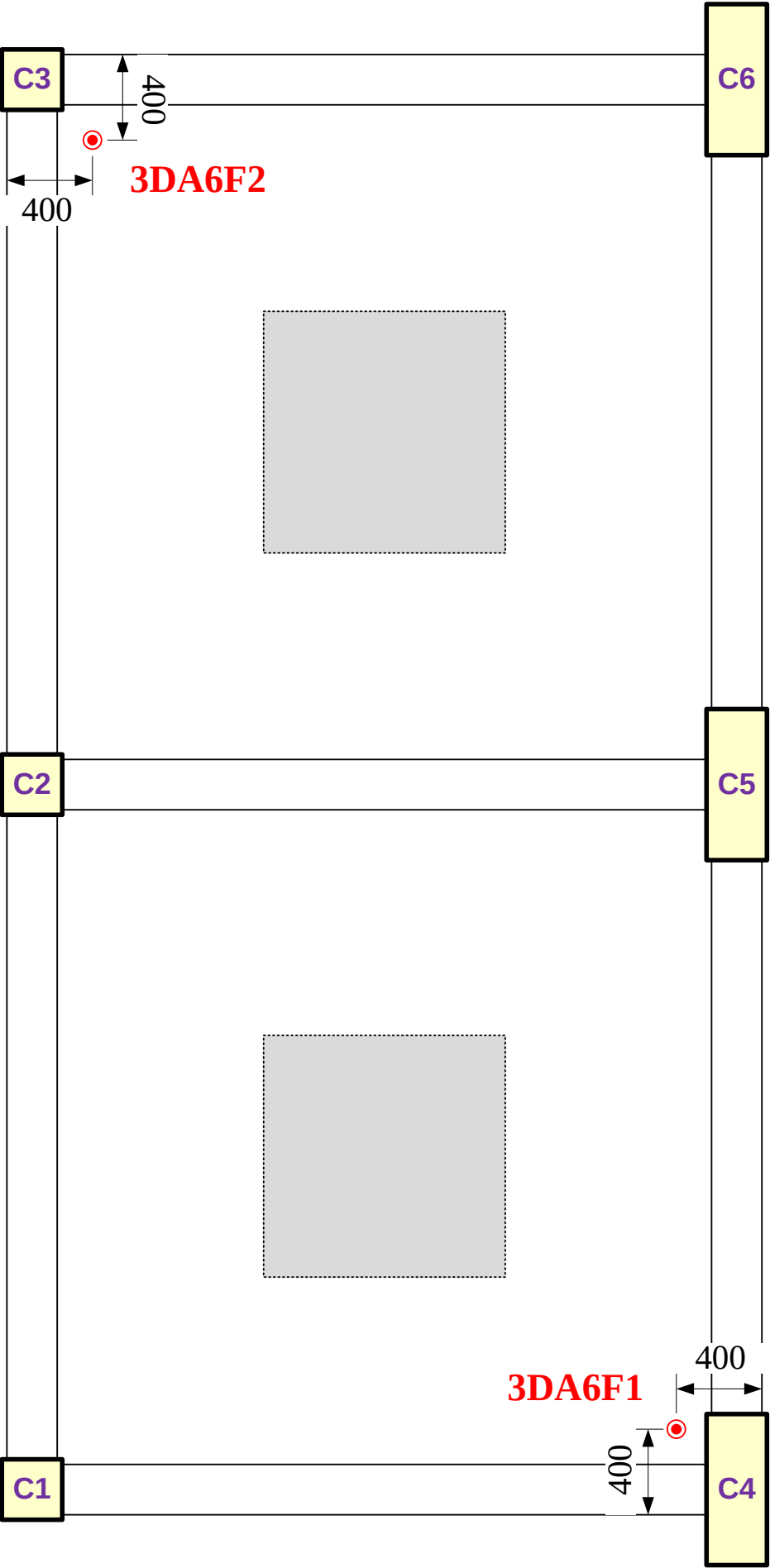




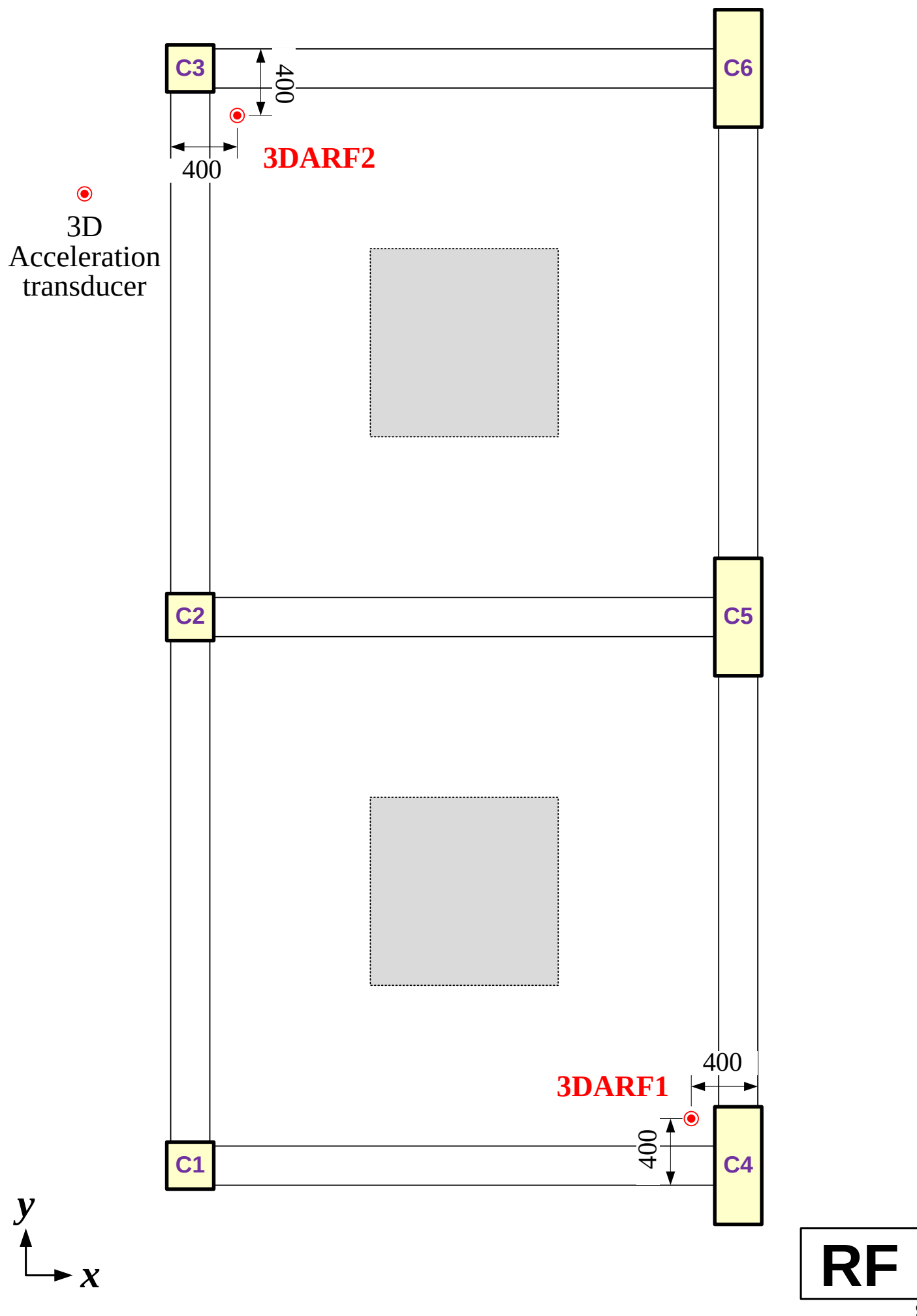




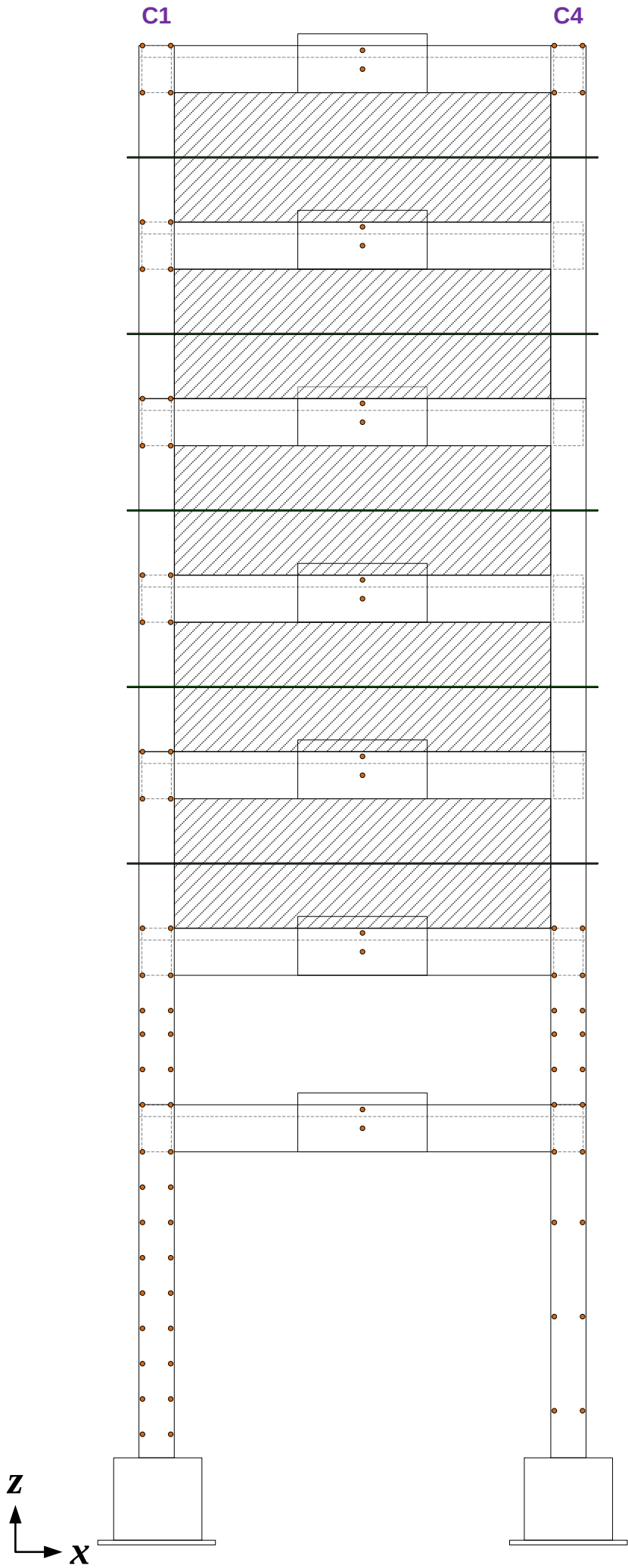
3D
Acceleration
transducer



6F



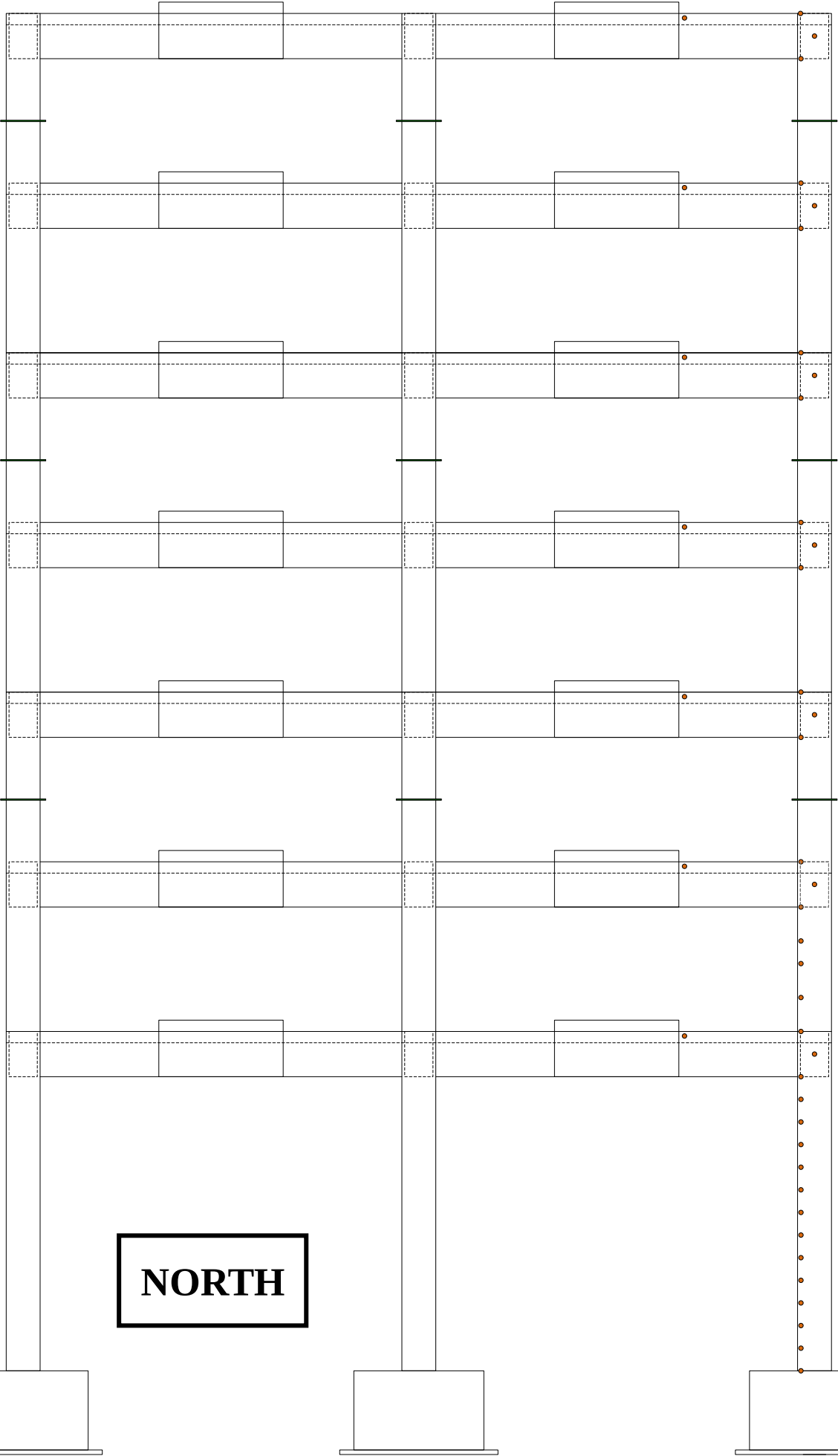
WEST

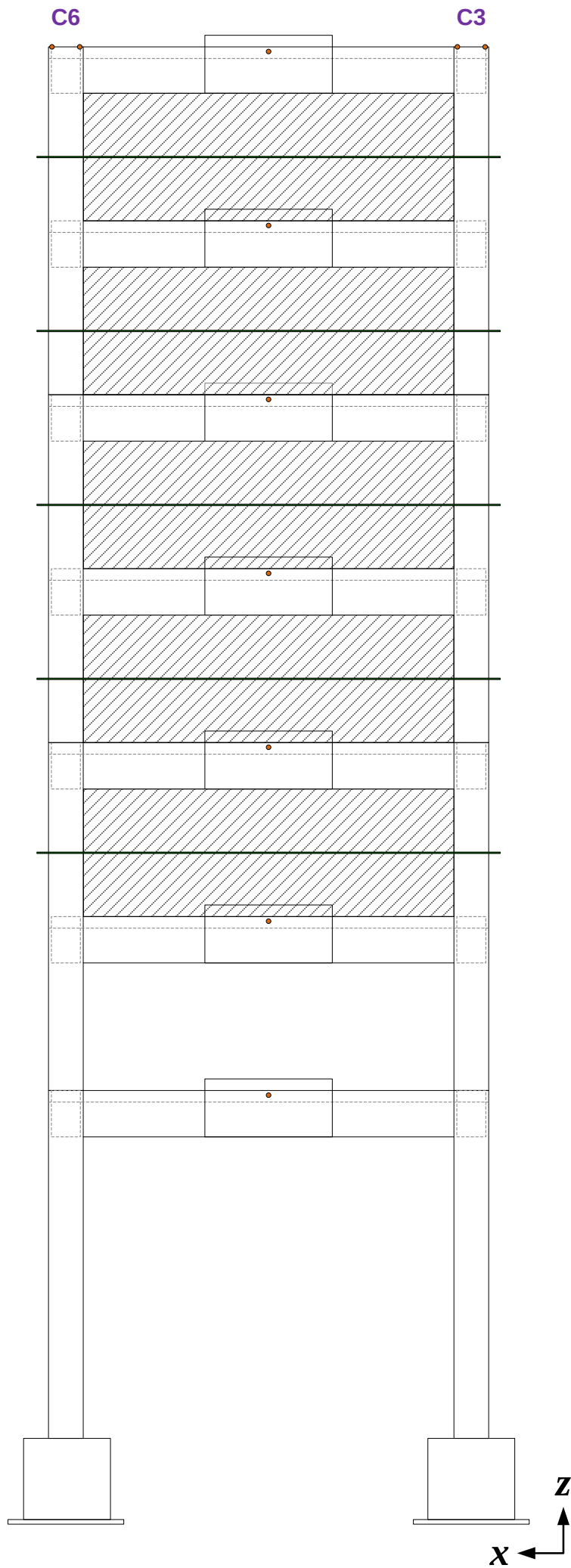


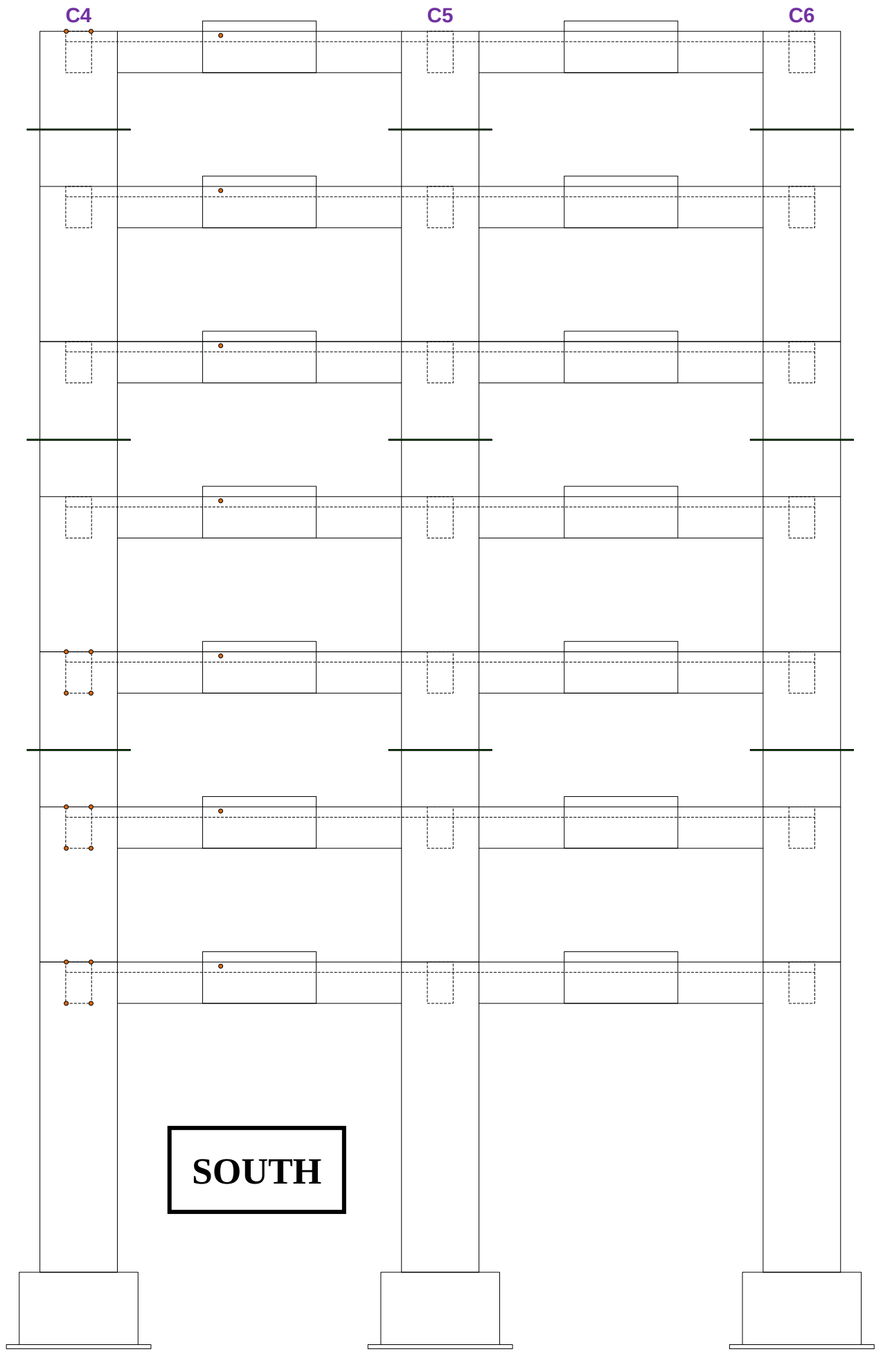
C3

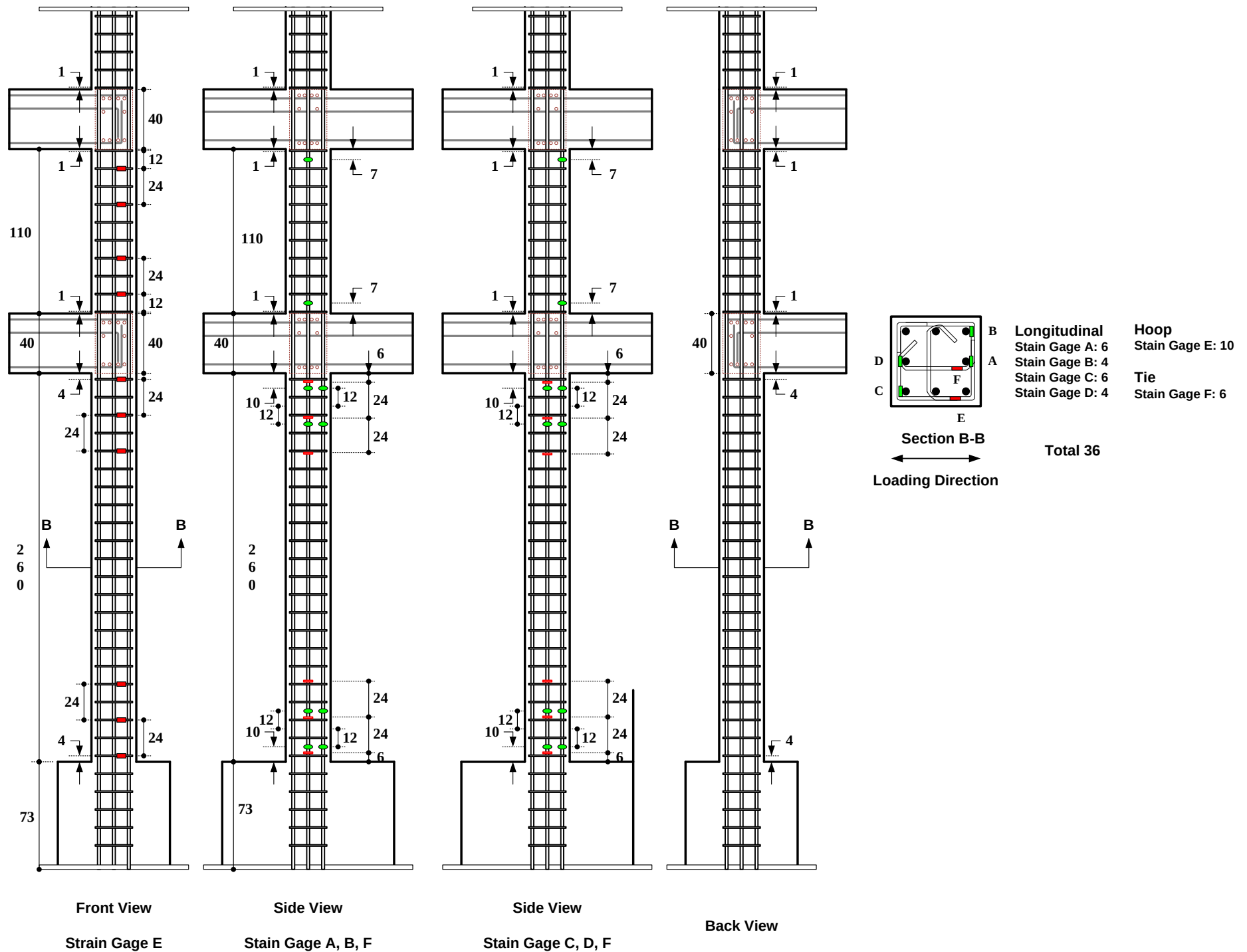
C2

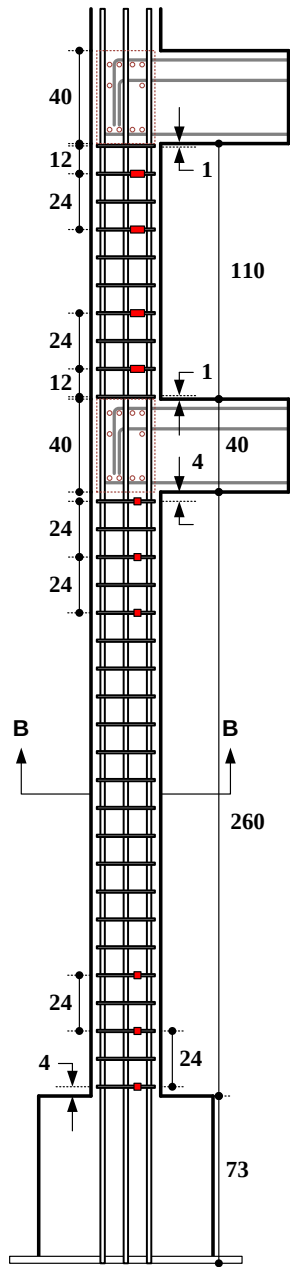
C1





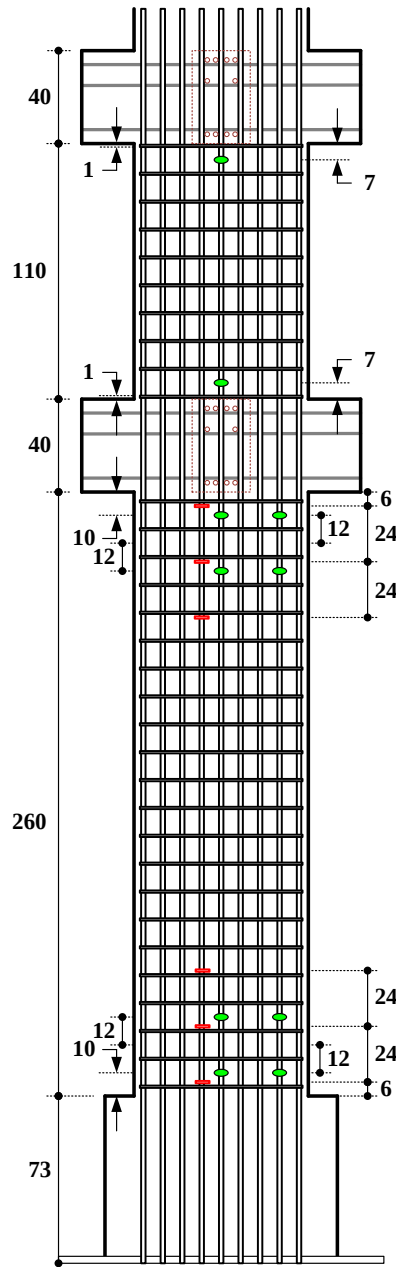






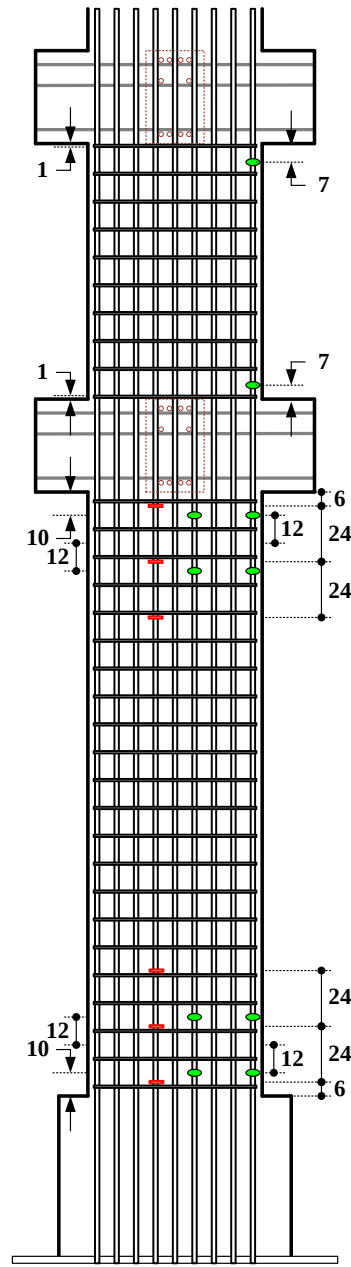
Front View

Strain Gage E



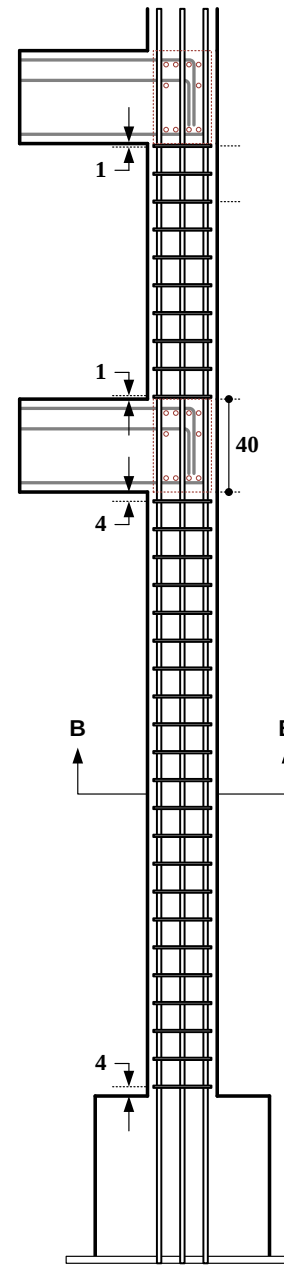
Side View

Strain Gage A, B, F

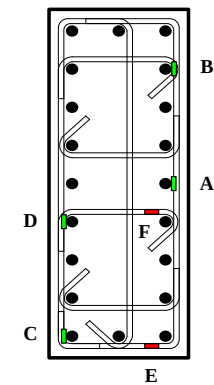


Side View

Strain Gage C, D, F



Back View



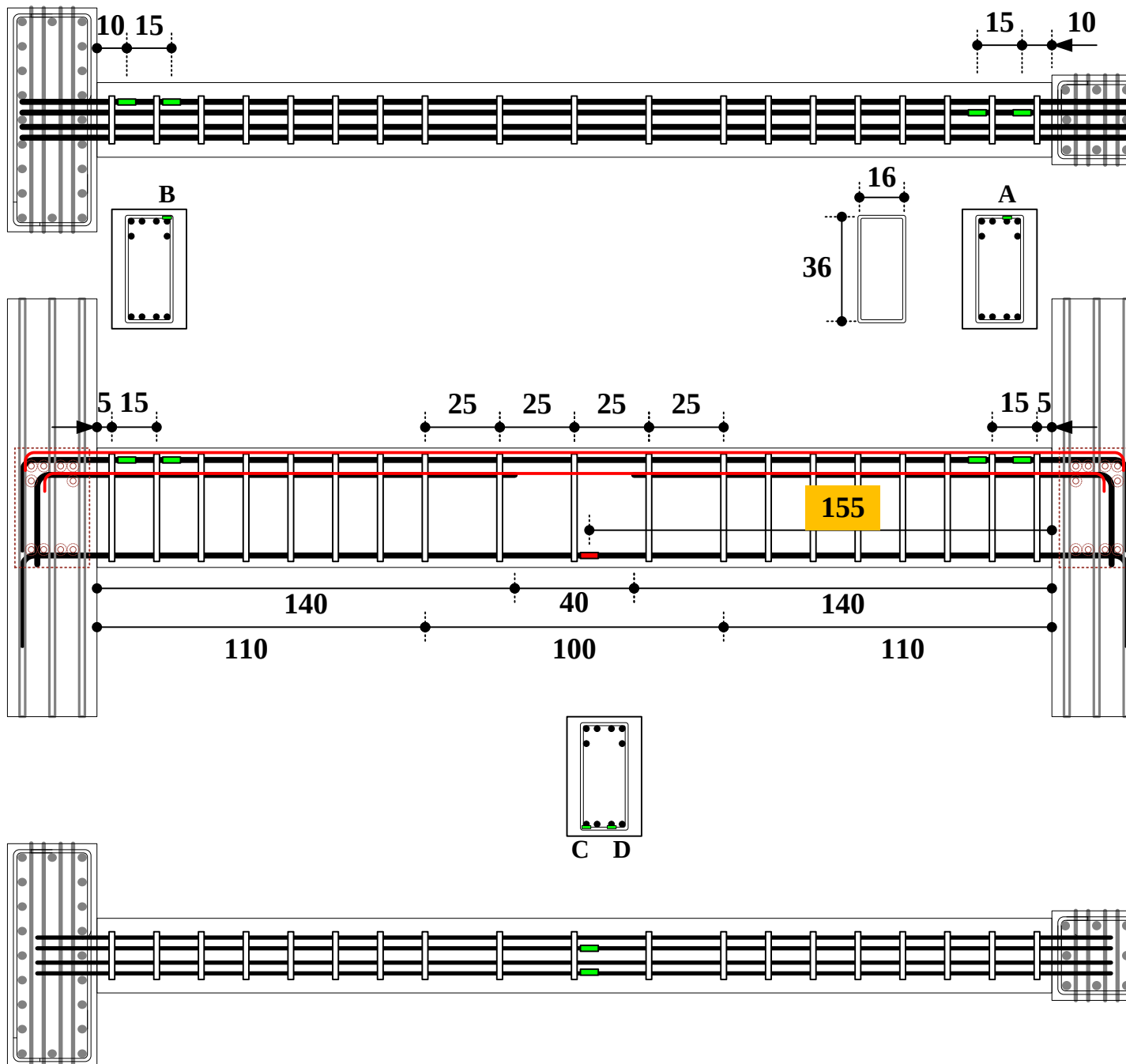
Section B-B

Loading Direction

Longitudinal
Strain Gage A: 6
Strain Gage B: 4
Strain Gage C: 6
Strain Gage D: 4

Hoop
Strain Gage E: 10
Tie
Strain Gage F: 6

Total 36



Longitudinal

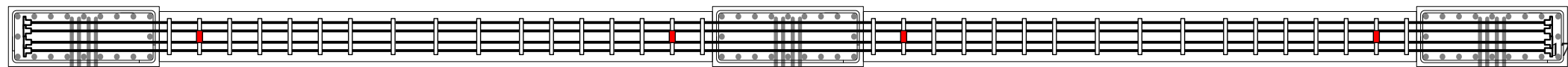
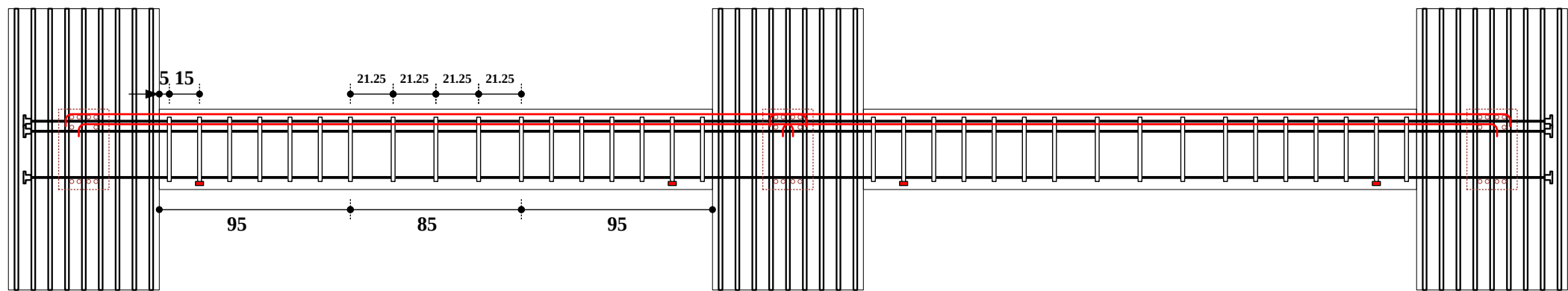
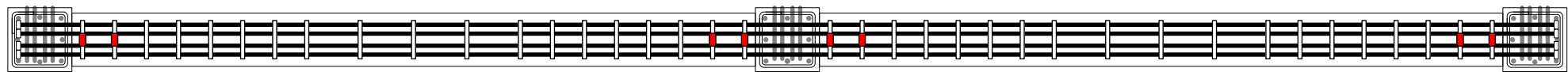
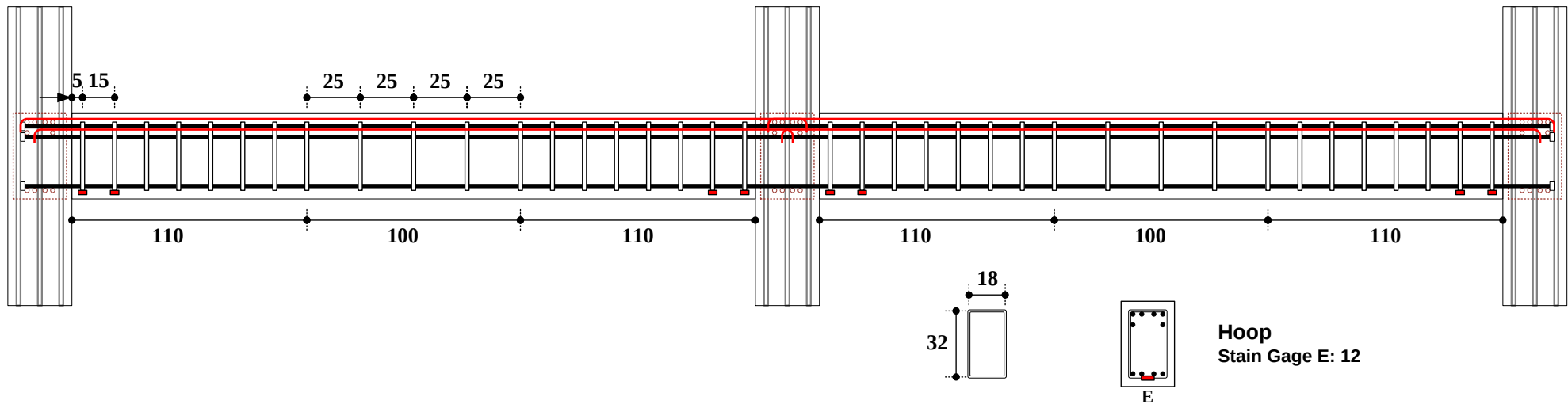
Stain Gage A: 2

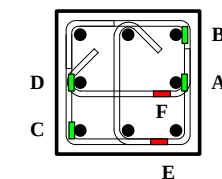
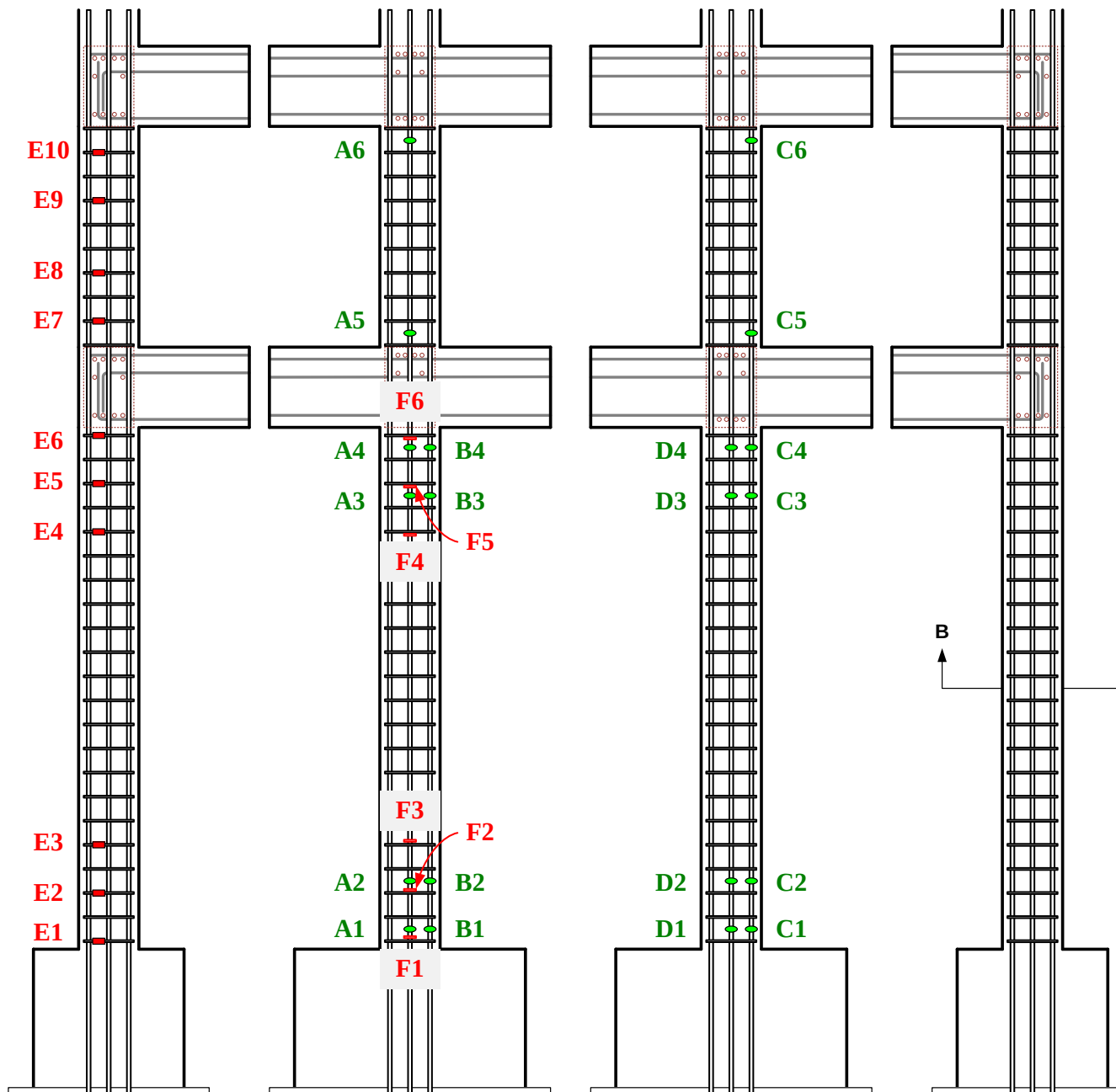
Stain Gage B: 2

Stain Gage C: 1

Stain Gage D: 1

Total 18





Section B-B
Loading Direction

Longitudinal
Stain Gage A: 6
Stain Gage B: 4
Stain Gage C: 6
Stain Gage D: 4

Hoop
Stain Gage E: 10
Tie
Stain Gage F: 6

Total 36

Front View

Side View

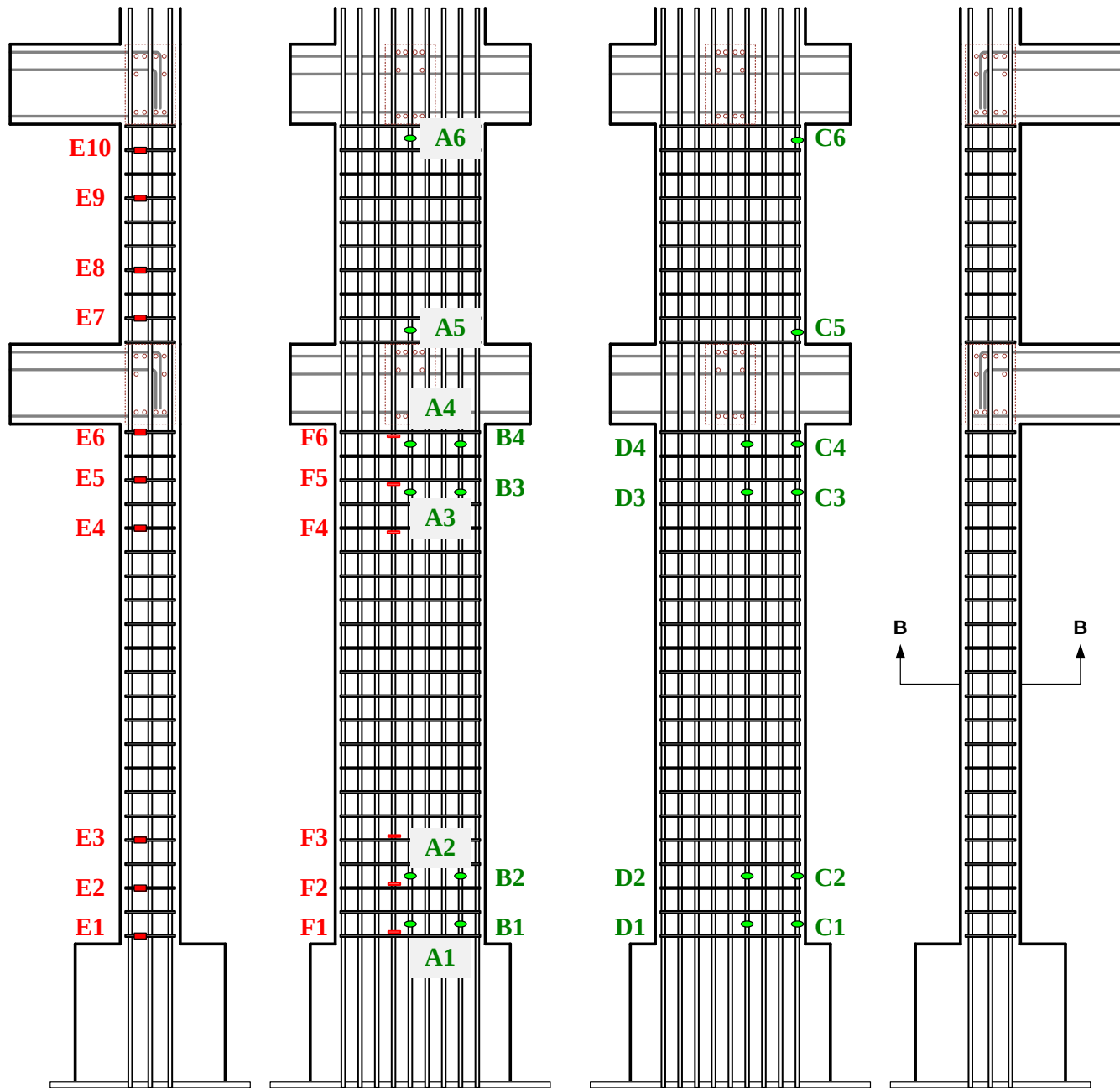
Side View

Back View

Strain Gage E

Strain Gage A, B, F

Strain Gage C, D, F



Front View

Strain Gage E

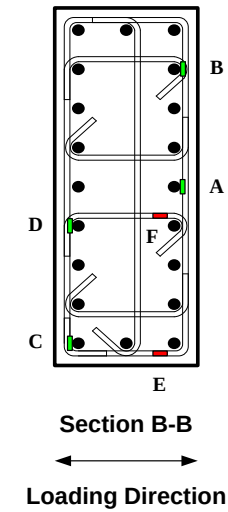
Side View

Strain Gage A, B, F

Side View

Strain Gage C, D, F

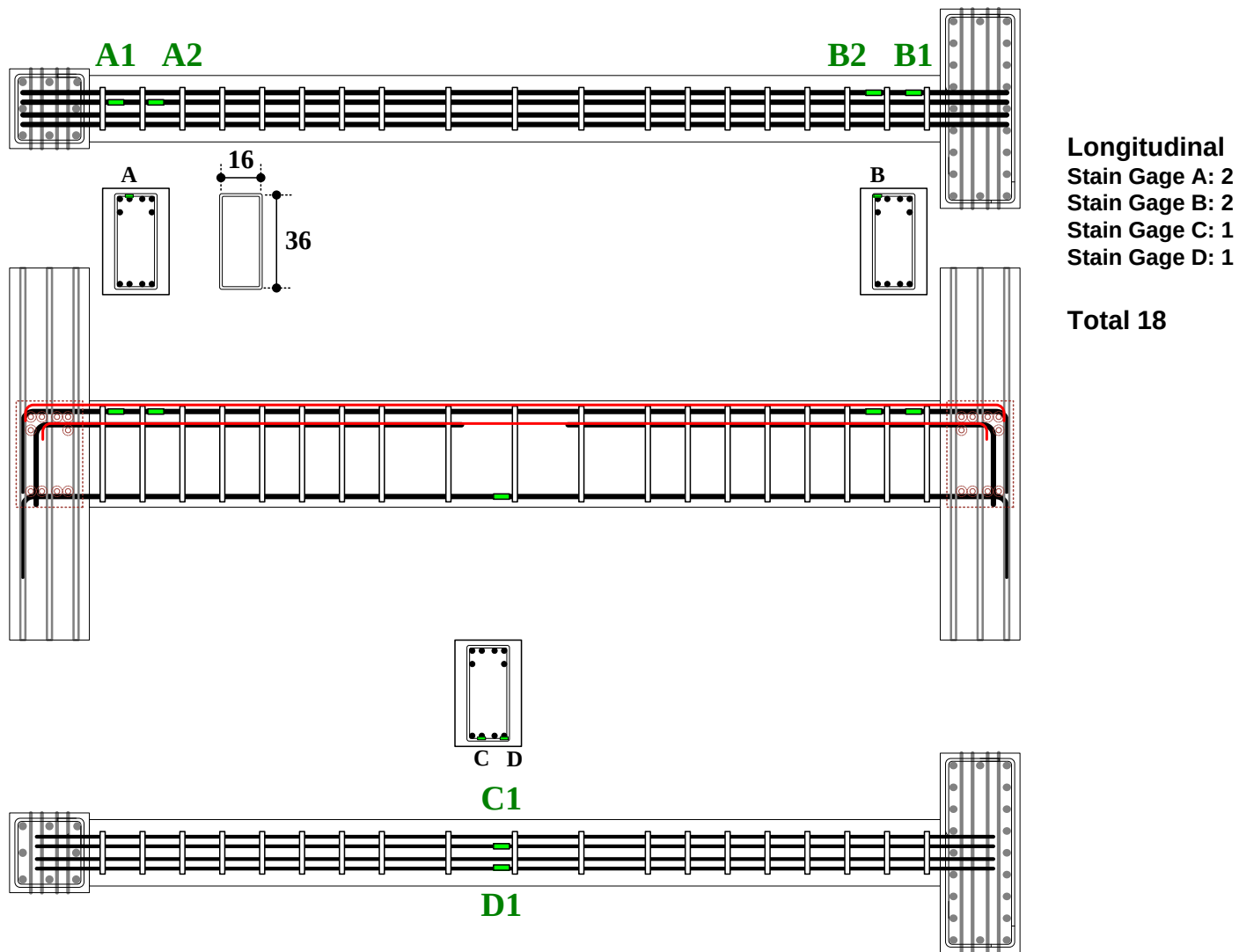
Back View



Longitudinal
Strain Gage A: 6
Strain Gage B: 4
Strain Gage C: 6
Strain Gage D: 4

Hoop
Strain Gage E: 10
Tie
Strain Gage F: 6

Total 36



應變計編號規則

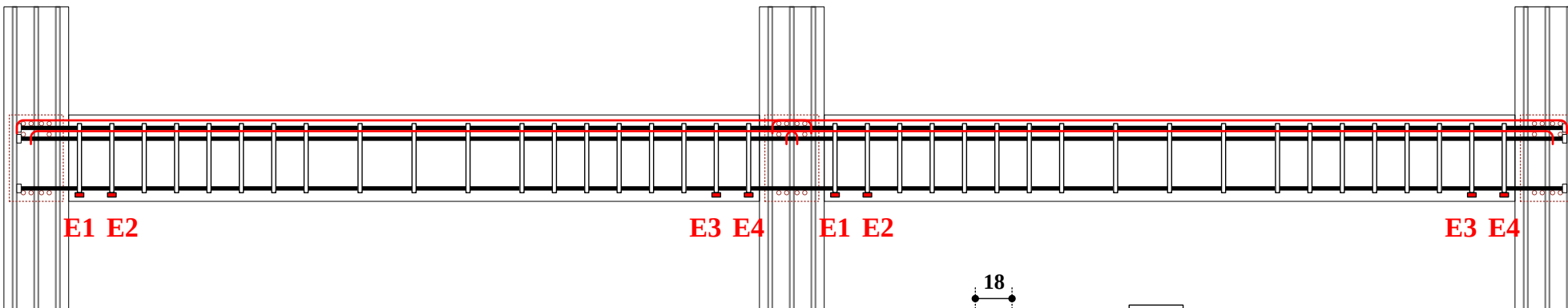
XYZΓ

前兩位編碼 XY，即為柱編號或梁編號(如第 21 頁)。後兩位編碼 ZΓ，即為應變計所在位置編號(如第 19、20 頁)。

C1

C2

C3

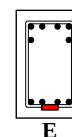
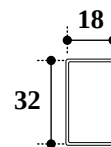


E1 E2

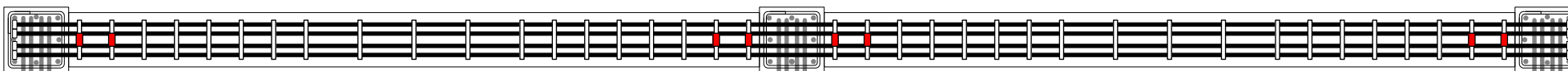
E3 E4

E1 E2

E3 E4



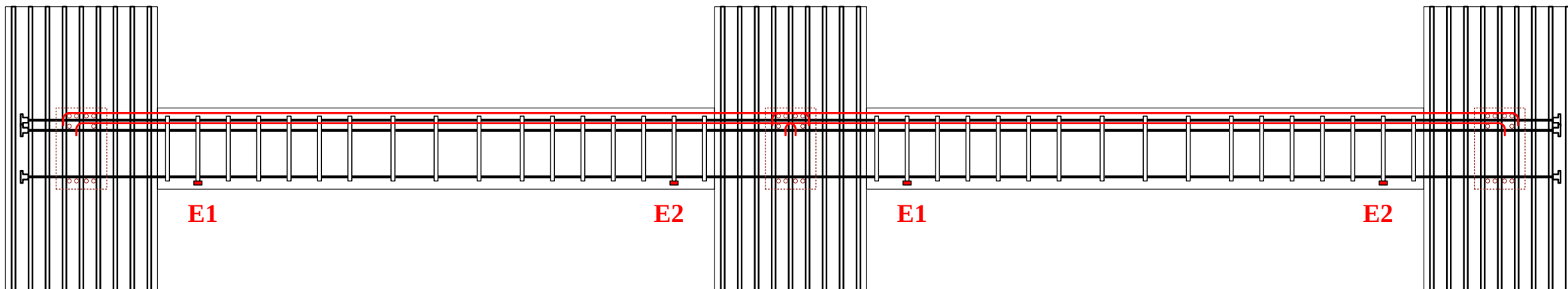
Hoop
Stain Gage E: 12



C4

C5

C6



E1

E2

E1

E2

