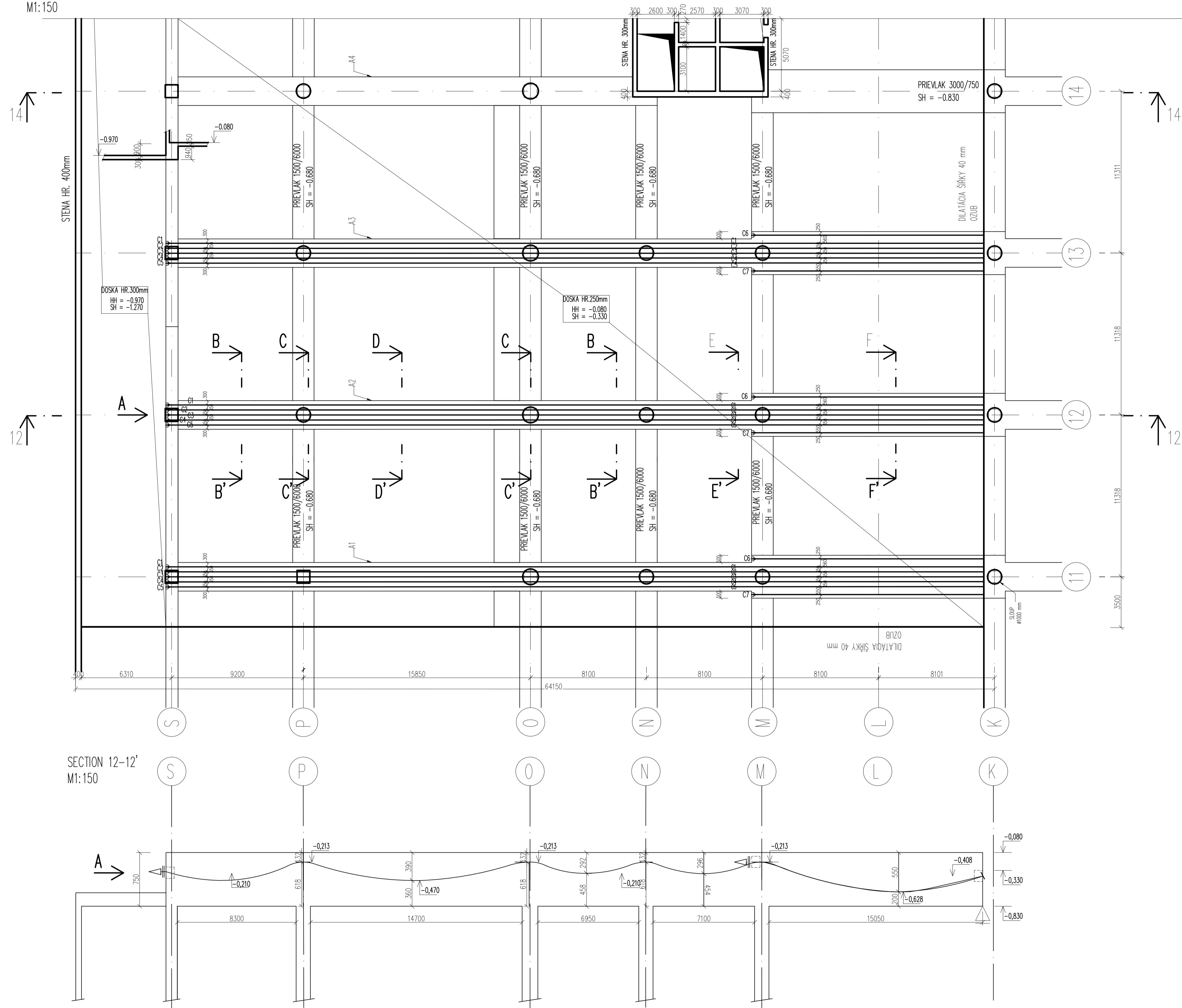
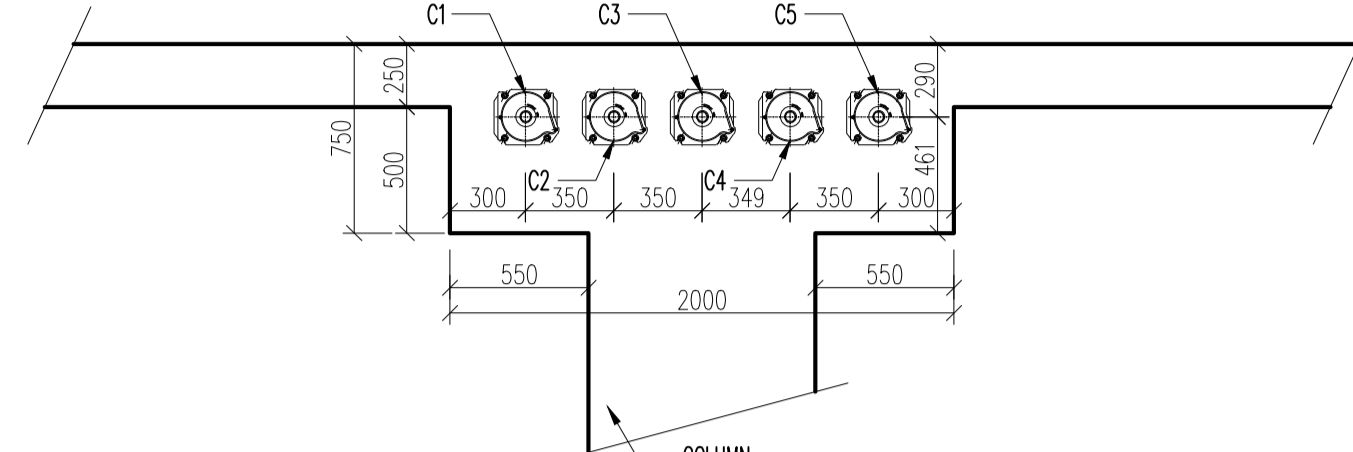


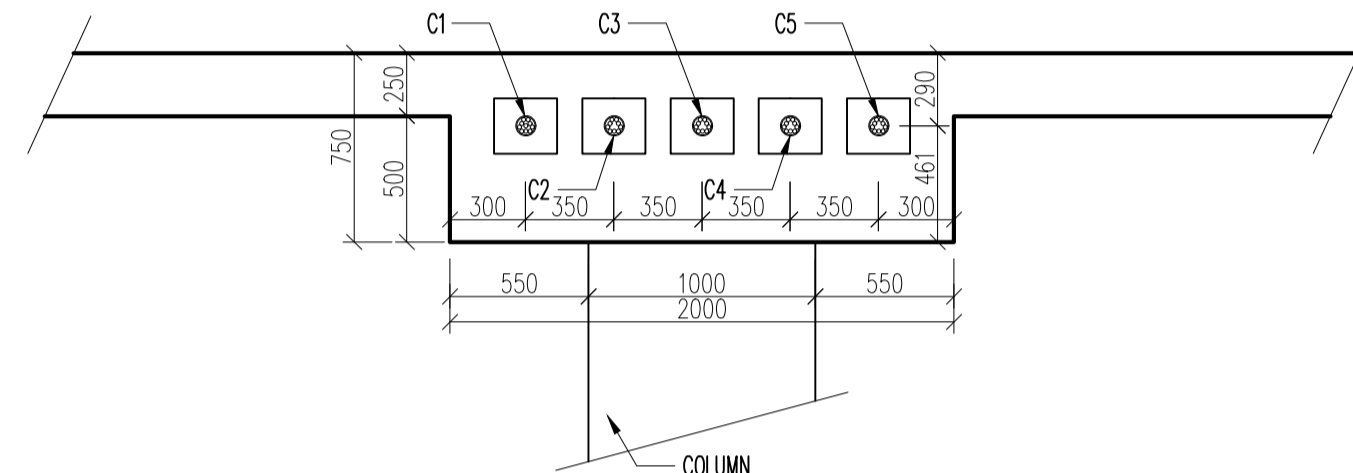
FLOOR PLAN: LEFT SIDE OF SLAB - 1PP
M1:150



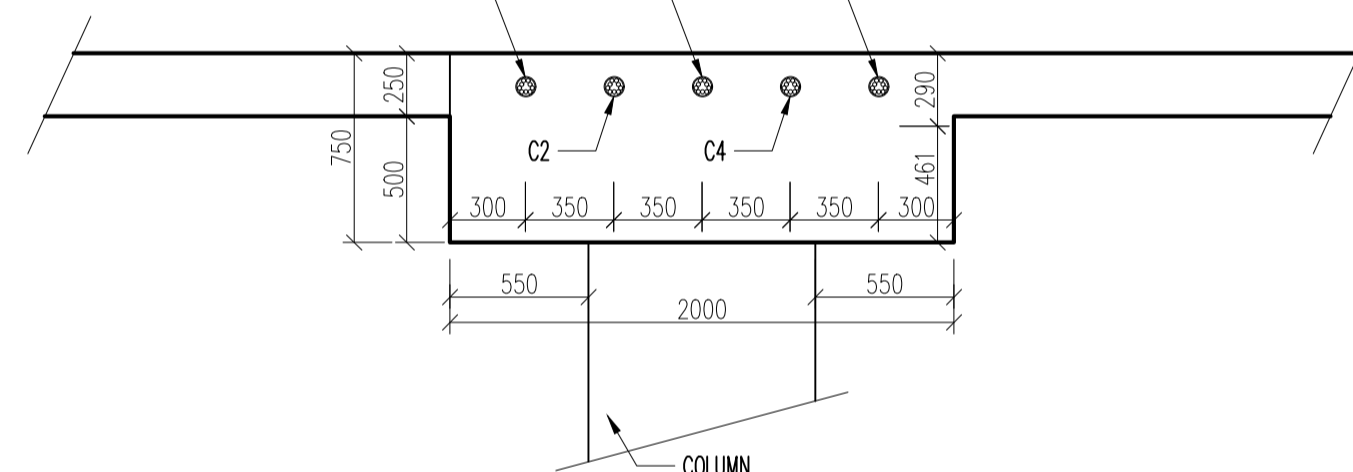
VIEW A-A'
M1:30



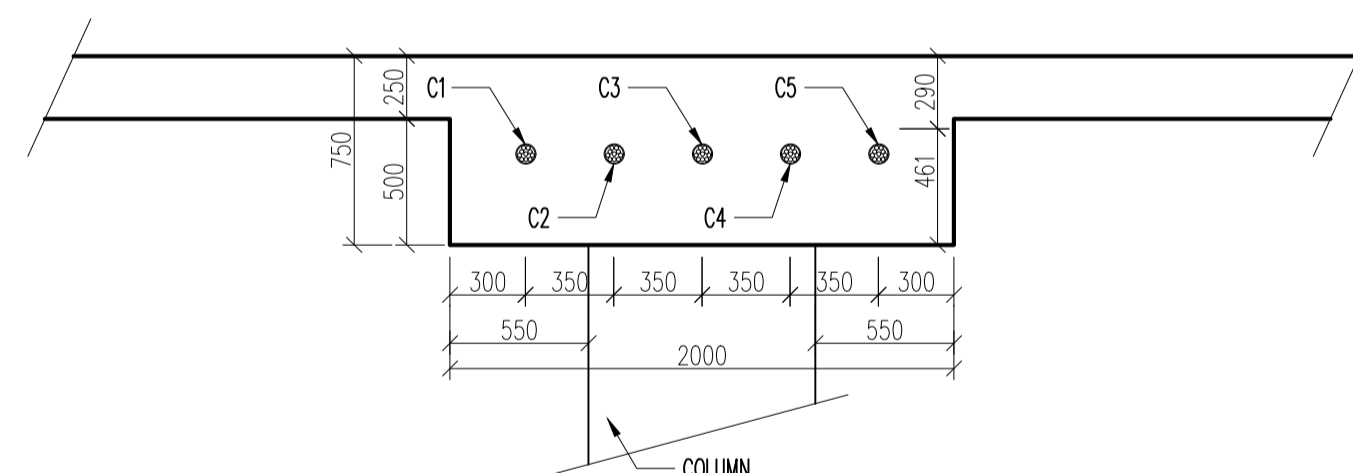
Section B-B'
M1:30



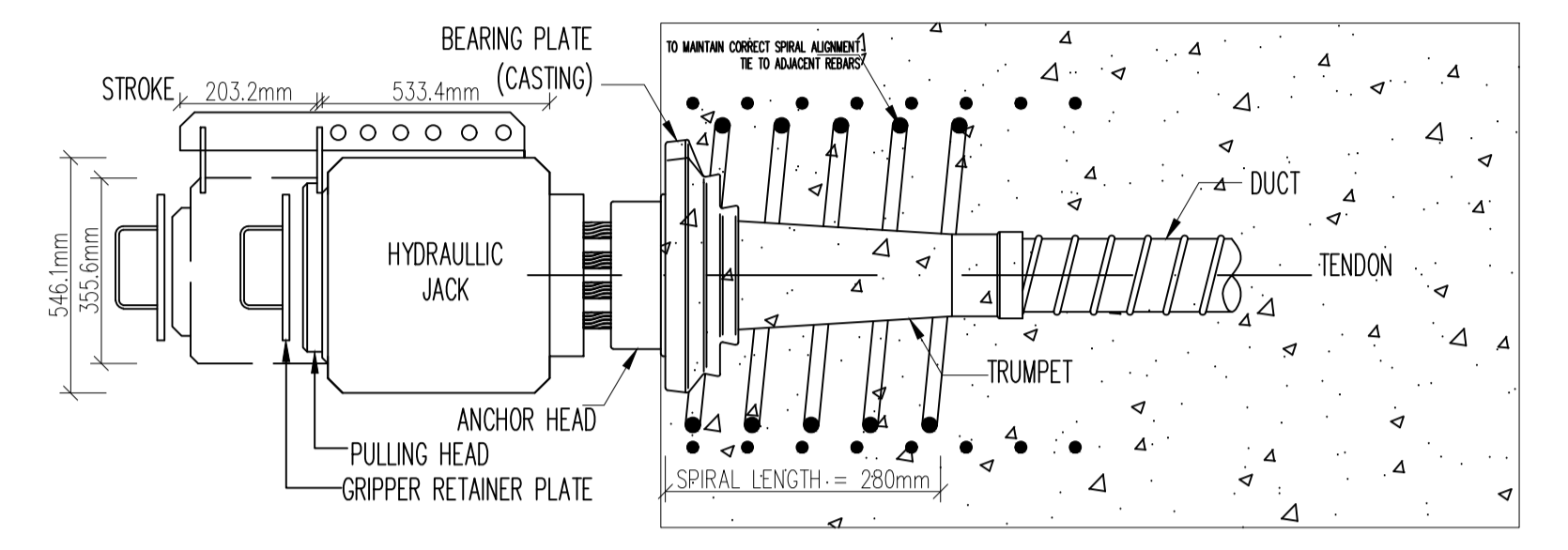
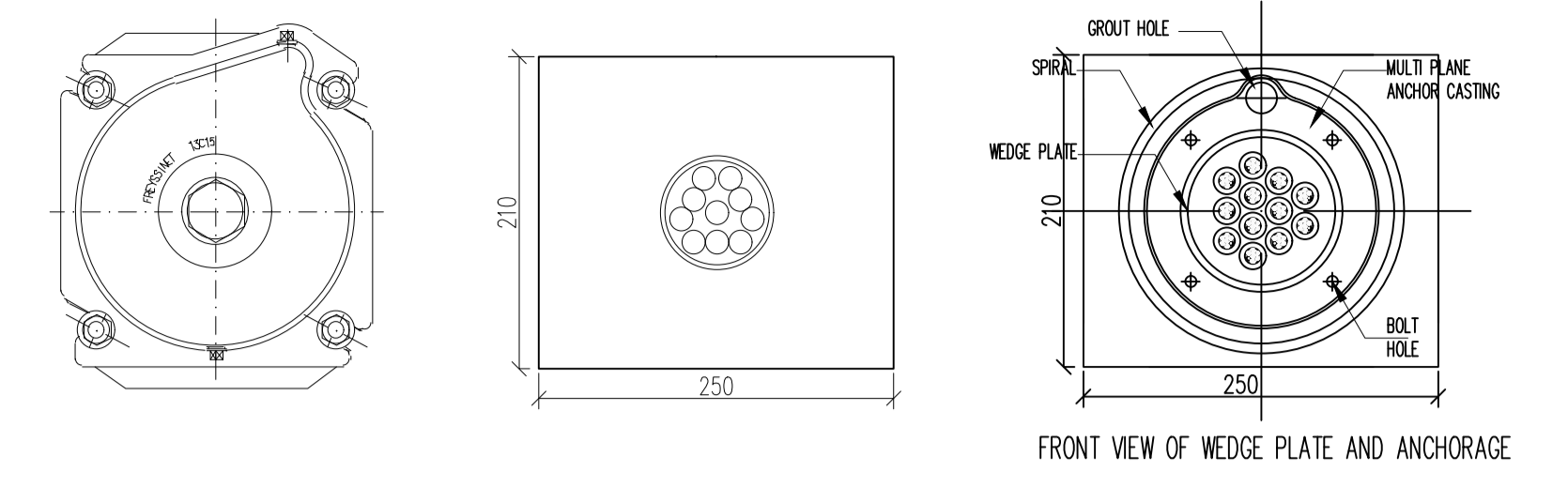
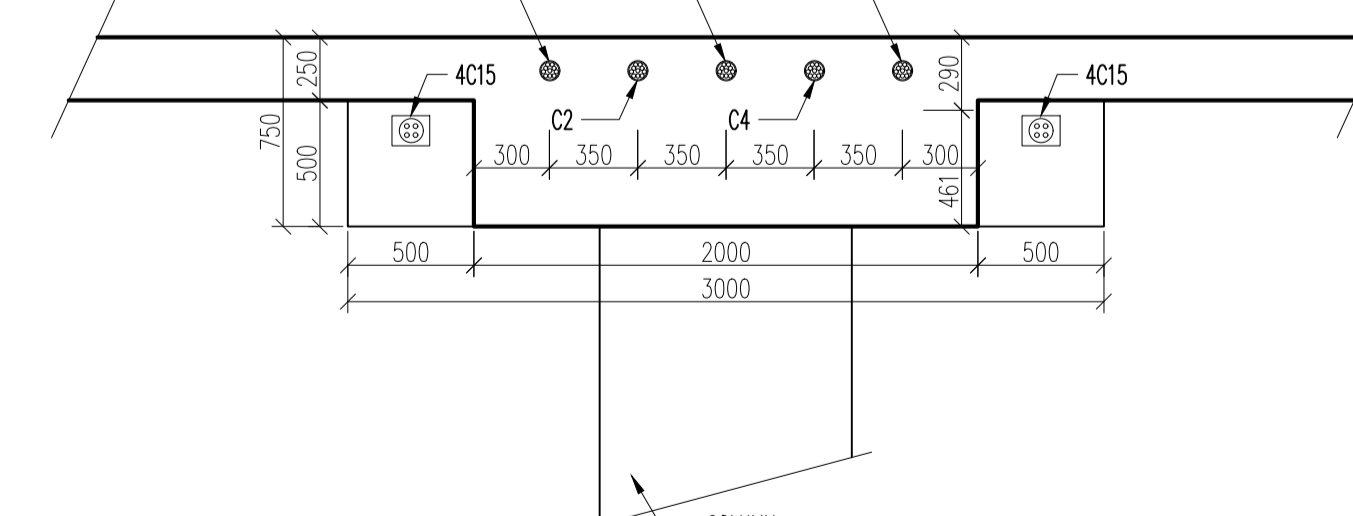
SECTION C-C'
M1:30



SECTION D-D'
M1:30



SECTION E-E'
M1:30



TYPICAL LONGITUDINAL SECTION OF ANCHORAGE

NOTE:

- CABLES USED:
- CABLES C1-C5 13 STRAND Y1860S7-15.7
 $\phi_s = 15.7 \text{ mm}$
 1860 MPa
 7 WIRE IN ONE STRAND
- CABLES C6, C7 4 STRAND Y1860S7-15.7
 $\phi_s = 15.7 \text{ mm}$
 1860 MPa
 7 WIRE IN ONE STRAND

CABLE CHANNELS: LFC TYPE CORRUGATED HOLES (OF STEEL STRIP)

ANCHORS USED: FREYSSINET 13C15 (13 STRAND)
FREYSSINET 4C15 (4 STRAND)

THE DISTANCE OF THE CHANNEL AXES FROM THE BOTTOM EDGE OF THE BEARING STRUCTURE (FORMWORK) ARE INDICATED IN THE LONGITUDINAL SECTION

INJECTION:
CABLE TRUNKS MUST BE INJECTED WITHIN 14 DAYS OF POST-TENSIONING

TENSIONING PROCEDURE:
TENDONS ARE TENSIONED AFTER THE CONCRETE HAS HARDENED &
THE PRESTRESSING FORCE IS PRIMARILY TRANSFERRED TO THE CONCRETE THROUGH THE END ANCHORAGES

CABLE TENSIONING PROCEDURE:

POST - STRESSING

$\sigma_{PM,0} = 1440 \text{ MPa}$

DURATION OF HOLDING STRESS:
5 min

CABLES CAN BE TENSIONED WHEN THE AVERAGE CYLINDRICAL STRENGTH OF CONCRETE IS REACHED IN PRESSURE $f_{cm0} = 32.7 \text{ MPa}$

FIELD	SUBJECT CODE	NAME OF STUDENT
BUILDING STRUCTURE	1330PP	DURGESH SAKHARAM PATIL
YEAR OF STUDIES	SUPERVISOR	
	1.5	doc. Ing. Marek Foglar, Ph. D
NAME OF PROJECT :		
Mlynske Nivy Bus Terminal -Diltation A5		
CONTENT :	PRESTRESSING DETAIL- LEFT SECTION OF CEILING ABOVE 1PP - DILATATION A5	FORMAT
		SCALE
		DATE
		10x44
		1:150, 1:30
		29.11.2022

