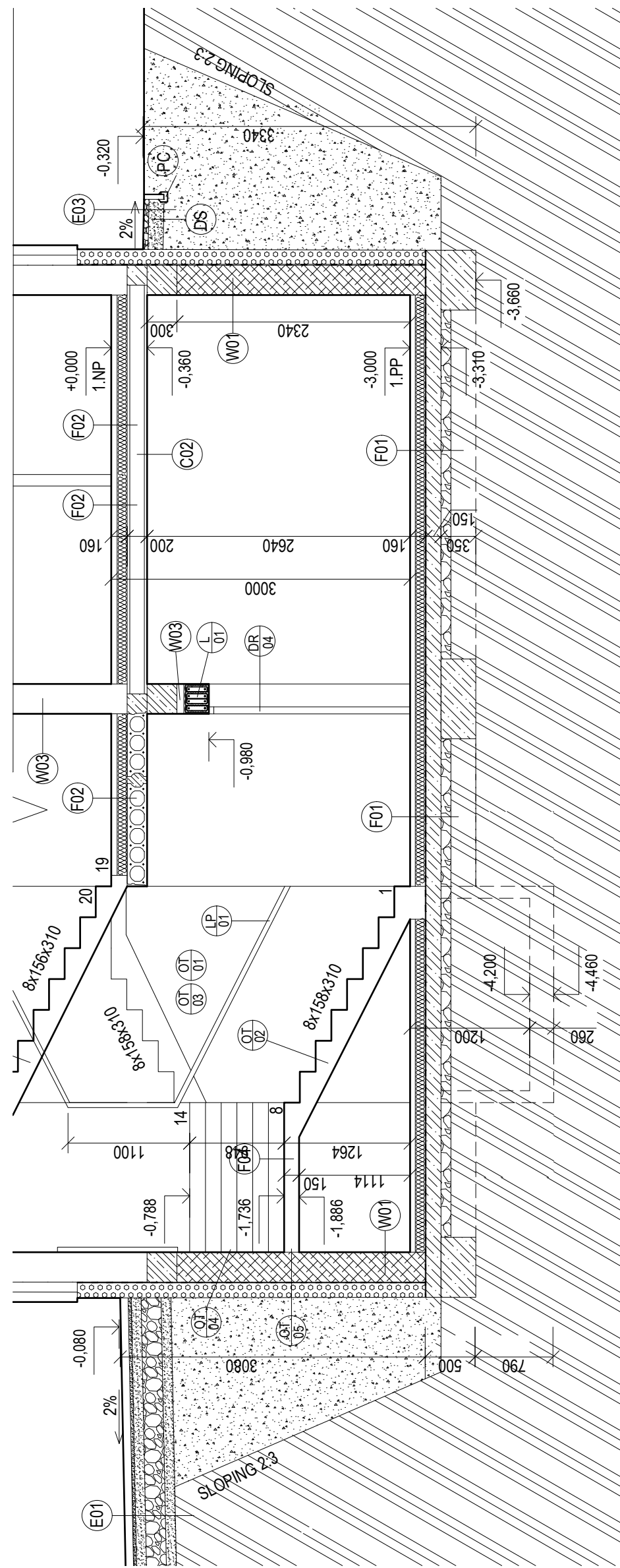
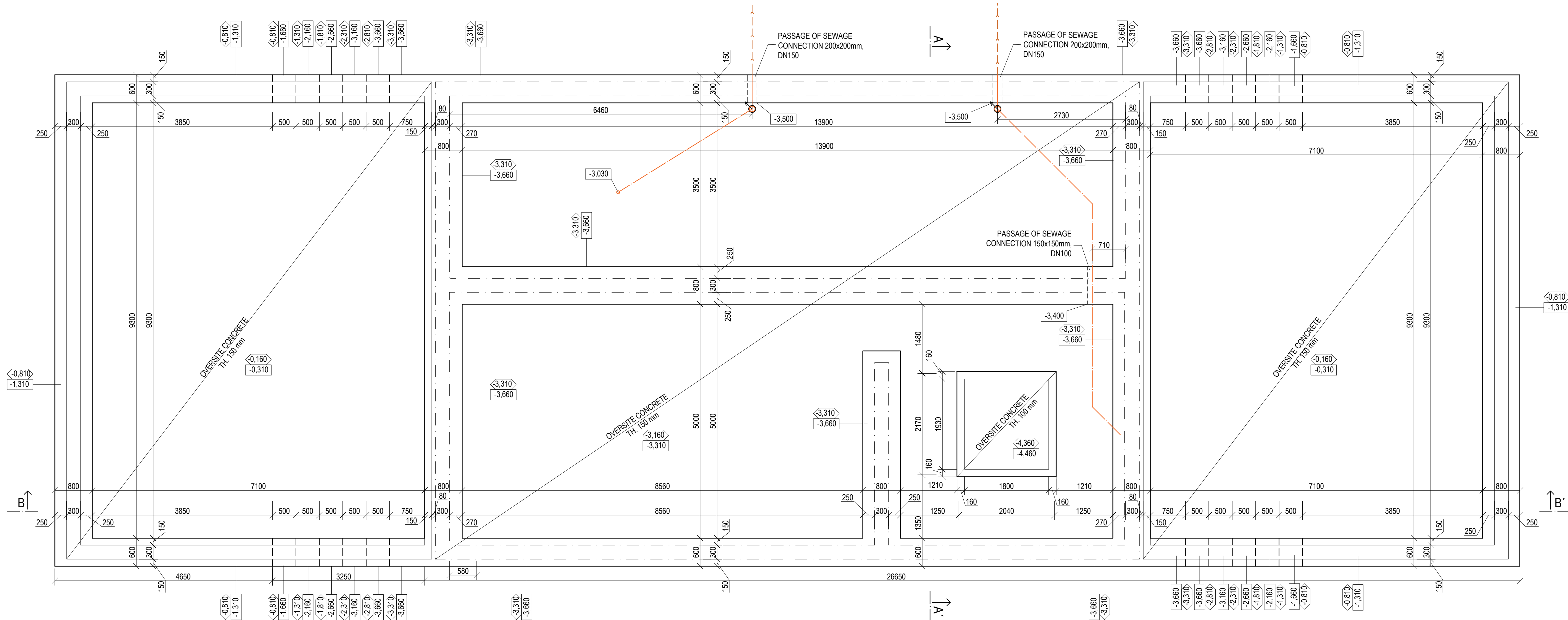
















D.1.2.02 FOUNDATIONS



LEGEND OF MATERIALS:

- | | |
|---|--|
|  | LOAD-BEARING FORMWORK BLOCKS BT5 50/30/25 (P+D), LxWxH 500x300x250mm, FILLED WITH REINFORCED CONCRETE C20/25, STEEL 8500B DESIGNED ACCORDING TO STRUCTURAL DESIGN (NOT PART OF THE BDT) RE 180 DP1 |
|  | SUPPORTING WALL FROM FORMWORK BLOCKS BT5 50/15/25 (P+D), LxWxH 500x150x250mm, FILLED WITH REINFORCED CONCRETE C20/25, STEEL 8500B DESIGNED ACCORDING TO STRUCTURAL DESIGN (NOT PART OF THE BDT) RE 180 DP1 |
|  | LOAD-BEARING WALL FROM CERAMIC BLOCKS POROTHERM 30 PROFi, th. 300mm, LxWxH 247x300x249mm, LAID ON THIN MORTAR JOINT, Rw=49dB, EI 180 DP1 |
|  | PARTITION WALL FROM CERAMIC BLOCKS POROTHERM 11.5 PROFi, th. 115mm, LxWxH 497x115x249mm, LAID ON THIN MORTAR JOINT, Rw=43dB, EI 120 DP1 |
|  | PARTITION WALL FROM CERAMIC BLOCKS POROTHERM 8 PROFi, th. 80mm, LxWxH 497x80x249mm, LAID ON THIN MORTAR JOINT, Rw=38dB, EI 90 DP1 |
|  | FACADE THERMAL INSULATION FROM MINERAL WOOL, th.200mm, STRENGTH 30 kPa, $\lambda_D=0.034$ W/mK |
|  | THERMAL INSULATION FROM EXPANDED POLYSTYRENE EPS <ul style="list-style-type: none"> - ROOF INSULATION SLOPING ROADS EPS 100, th. min 50mm, STRENGTH 100 kPa, $\lambda_D=0.036$ W/mK - ROOF INSULATION BOARD EPS 150, th. 2x100mm, STRENGTH 150 kPa, $\lambda_D=0.036$ W/mK - ROOF INSULATION EPS 150 IN BETWEEN WOODEN WEDGES, th. 50-60mm, STRENGTH 150 kPa, $\lambda_D=0.036$ W/mK |
|  | THERMAL INSULATION FROM EXTRUDED POLYSTYRENE, XPS 300 L, th. 80mm AND th. 160mm, STRENGTH 300 kPa, $\lambda_D=0.033$ W/mK |
|  | WATERPROOFING - 2xS BSB MODIFIED ASPHALT FELT, th. 2x4mm
ROOF - WATER VAPOUR BARRIER - ASPHALT FELT TYPE S, th. 4mm |
|  | SURROUNDING SOIL - CLASSIFICATION GM (SILT GRAVEL) / SC (CLAY SAND), $\rho_{D10}=250$ kPa, |
|  | REINFORCED CONCRETE, C25/30, STEEL 850B |
|  | PLAIN CONCRETE, C20/25 |
|  | WASHED RIVER AGGREGATE - GRAVEL FRACTION 16-32 |
|  | FOUNDATIONS - COMPACTED ORIGINAL SOIL |

LEGEND OF SYMBOLS:

- | | |
|--------|------------------------------|
| +7,390 | HEIGHT LEVEL FROM THE BOTTOM |
| +7,490 | HEIGHT LEVEL FROM THE TOP |

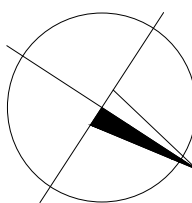
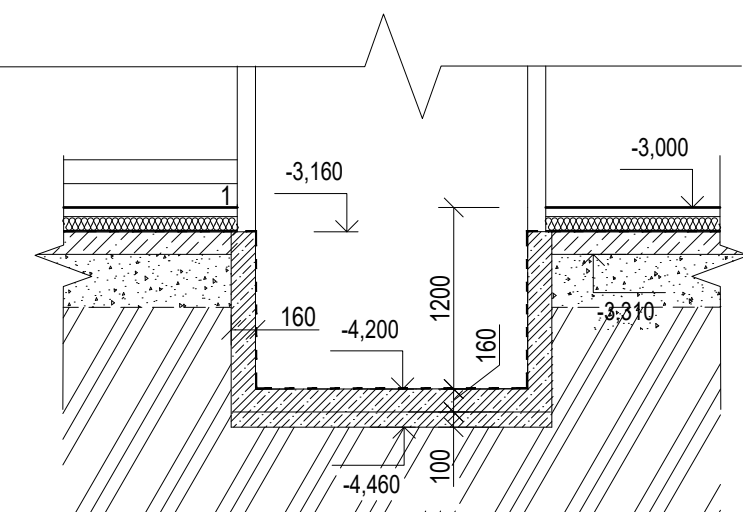
LEGEND OF LINES

- — — — — WASTE WATER DRAINAGE CONNECTION
— — — — — WASTE WATER DRAINAGE SYSTEM

NOTES:

- ORIGINAL TERRAIN WAS ESTABLISHED USING CONTOUR LINES FROM <https://geoportall.cuzk.cz>.
GEODETIC SURVEY HAS NOT BEEN CARRIED OUT.
IT IS NECESSARY TO KEEP PRESCRIBED SLOPES OF THE INCLINE 1:1 AND 2:3
BUT BEFORE STARTING EARTHWORKS, IT IS NECESSARY TO MARK UTILITY NETWORKS.
FOUNDATION STRIPS MUST BE IN ANTI-FREEZE DEPTH, IN NIVEL 800mm UNDER FORMATION
GROUND LEVEL.
THE FOUNDATION TRENCH MUST BE AT LEAST 500mm IN NATURAL SOIL, IF THE ACTUAL NATURAL
SOIL DIFFERS FROM THE PD, THE FOUNDATION MUST BE DEEPENED TO THE REQUIRED DEPTH
IT IS NECESSARY TO CONSIDER THE CONDITIONS OF THE TERRAIN AFTER THE DEMOLITION OF THE
ORIGINAL STRUCTURES BEFORE COMMENCING EXCAVATION WORK.
THE FOUNDATION TRENCHES MUST BE PROTECTED AGAINST WEATHER, MUST BE CLEANED BEFORE
CONCRETING STARTS, MUST BE CHECKED BY DESIGNER OR STRUCTURAL ENGINEER
IN THE FOUNDATION TRENCH, A GROUNDING STRIP WILL BE PLACED AROUND THE PERIMETER OF
THE BUILDING ACC. TO ELECTROTECHNICAL DESIGN - NOT PART OF THIS PD

ELEVATOR - REINFORCED CONCRETE C25/30, STEEL B500B
FOUNDATION STRIPS - PLAIN CONCRETE C25/30
OVERSITE CONCRETE - PLAIN CONCRETE C20/25, KARI MESH KH 20
- UNDER STAIRS, STORAGE OF POST OFFICE AND IN PLACES
WHERE HIGHER LOADING IS EXPECTED IT IS RECOMMENDED
TO USE 2xKARI MESH



0000 - 240.24		ma.s.i. B.H.S. / COORDINATE SYSTEM S-JTSK	
COURSE		DIPLOMA THESIS	
DRAWN BY		BARBORA HUSÁŘOVÁ	
SUPERVISED BY		ING. JAN MÜLLER PH.D.	
INVESTOR			
LOCATION		POŘÁDÍ, 687 51 NIVNICE, PARCELS NO. 65, 64, 63, 61, 57	
PROJECT TITLE		MUNICIPAL CENTRE IN NIVNICE	
BUILDING OBJECT		BO 01 MUNICIPAL CENTRE	
PART		D.1.2 BUILDING STRUCTURAL SOLUTION	
DRAWING TITLE:		FOUNDATIONS	
		