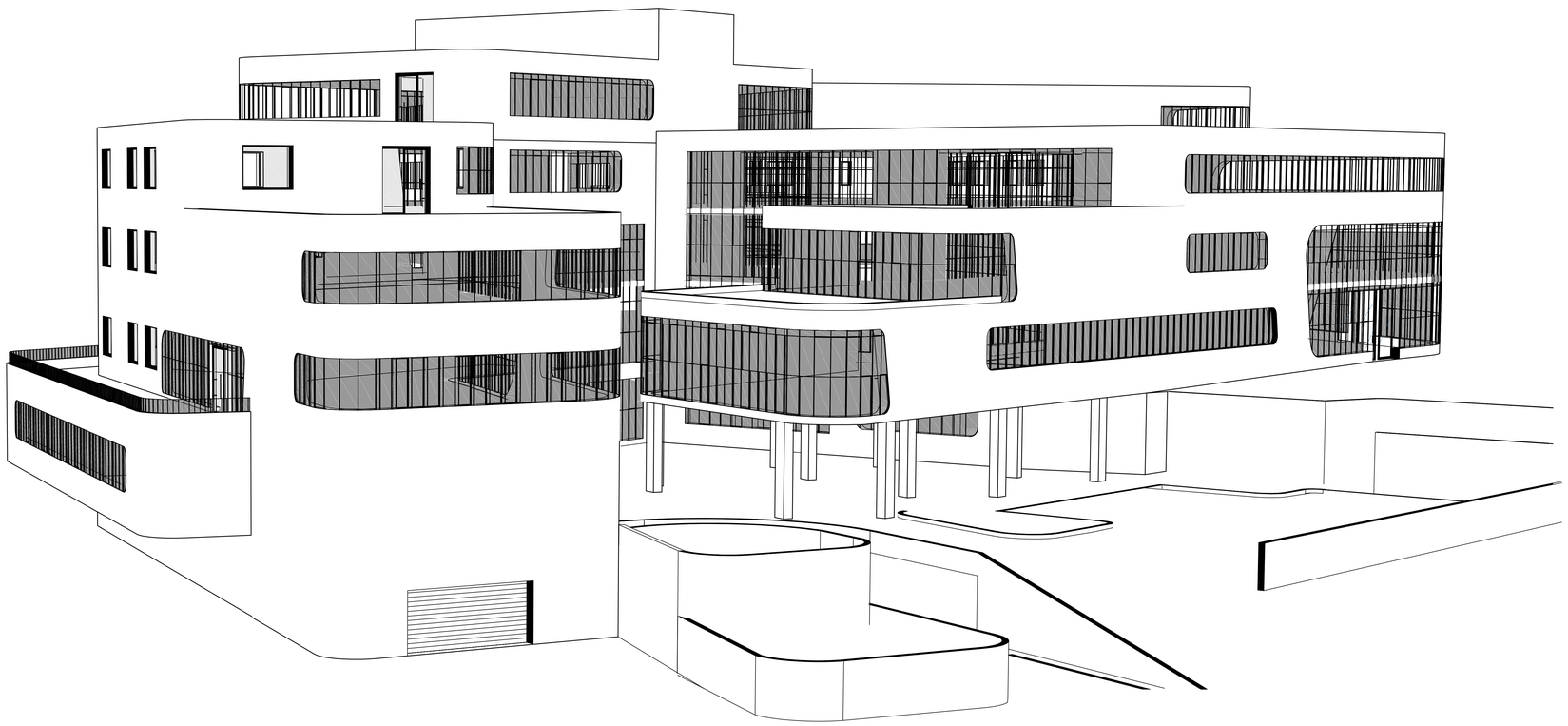
Palestine Polytechnic University

College of Engineering
Civil and Architecture Department

Graduation Project

HEBRON HOSPITAL



Done By:

Qusai aburayyan
Anas Hashlamoun
Naji Said

Supervisor:

Eng. Sufian Al-Turk

2021

LIST OF DRAWINGS

ARCHITECTURAL		STRUCTURAL	
DWG NO.	DWG TITLE	DWG NO.	DWG TITLE
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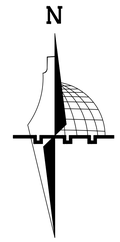
A01–A06	DIMENSION PLANS	S01–S05	COLUMNS COORDINATION
A07–A12	FURNITURE PLANS	S06–S31	FOOTINGS DETAILS
A13–A14	ELEVATIONS	S32	WATER TANK DETAILS
A15	SECTIONS	S33–S38	COLUMNS DETAILS
		S39–S46	BASEMENT WALLS DETAILS
		S47–S61	SHEAR WALLS DETAILS
		S62–S85	SLABS DETAILS
		S86–S121	BEAMS DETAILS
		S122–S124	FRAMES DETAILS
		S125	STAIRS DETAILS
		S126–S131	KEY PLANS



NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

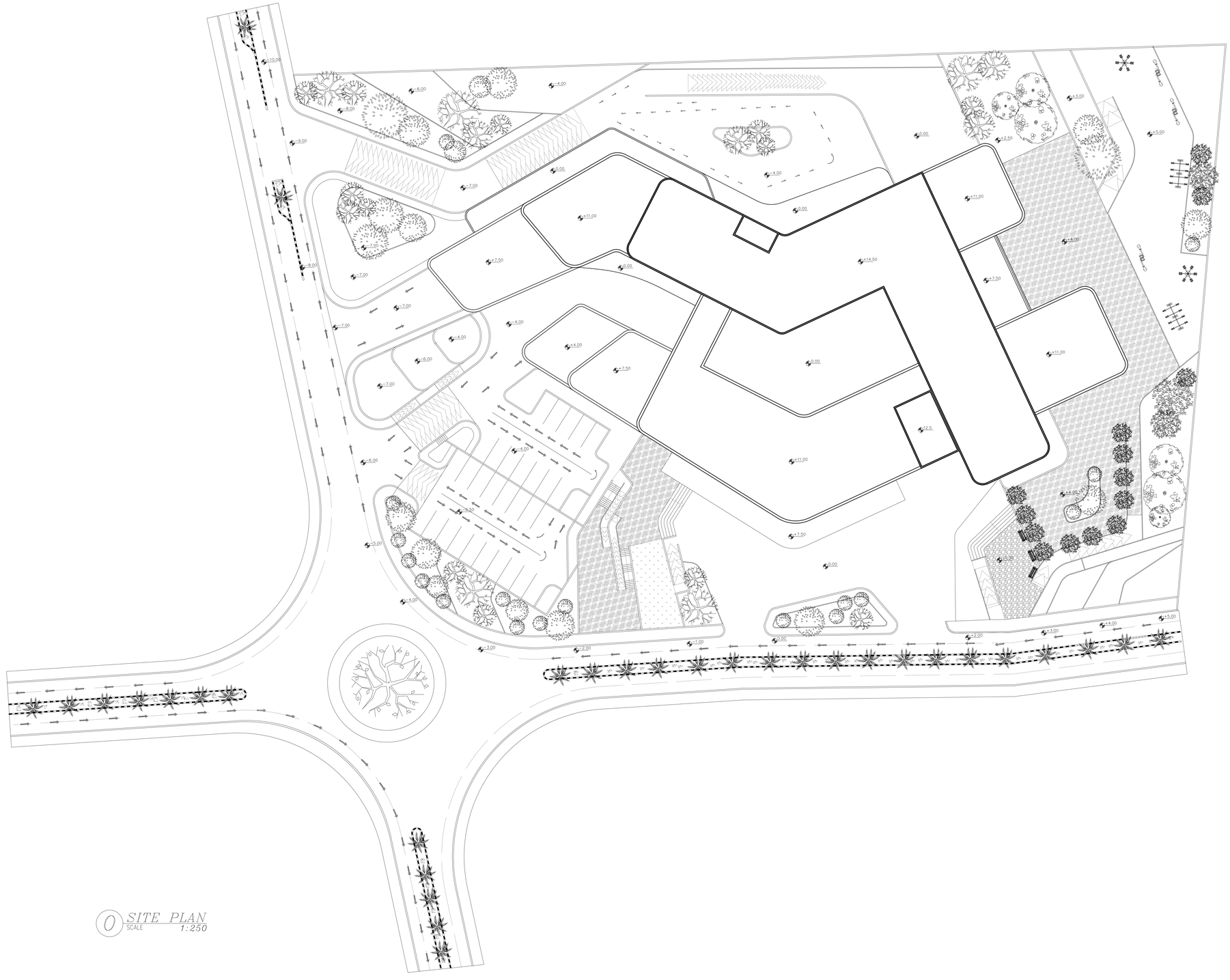
ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

List of Drawings

Supervisor :

Eng. Sufian Al-Turk



0 SITE PLAN
SCALE 1:250

N

NOTES:

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All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

SITE PLAN

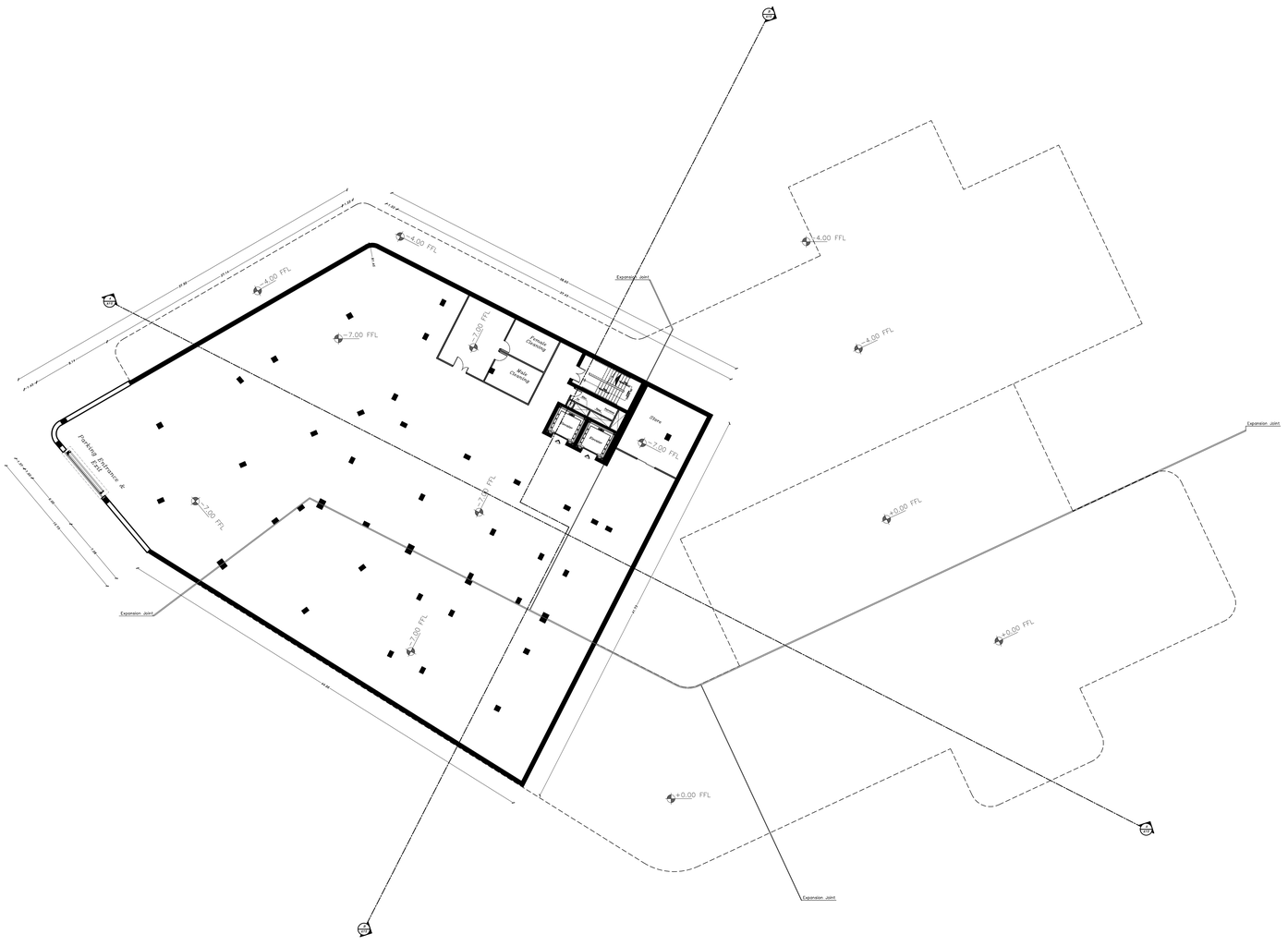
Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/250

A00



1 BASEMENT (-2) PLAN
SCALE 1:200M

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Basemen (-2) Floor Plan

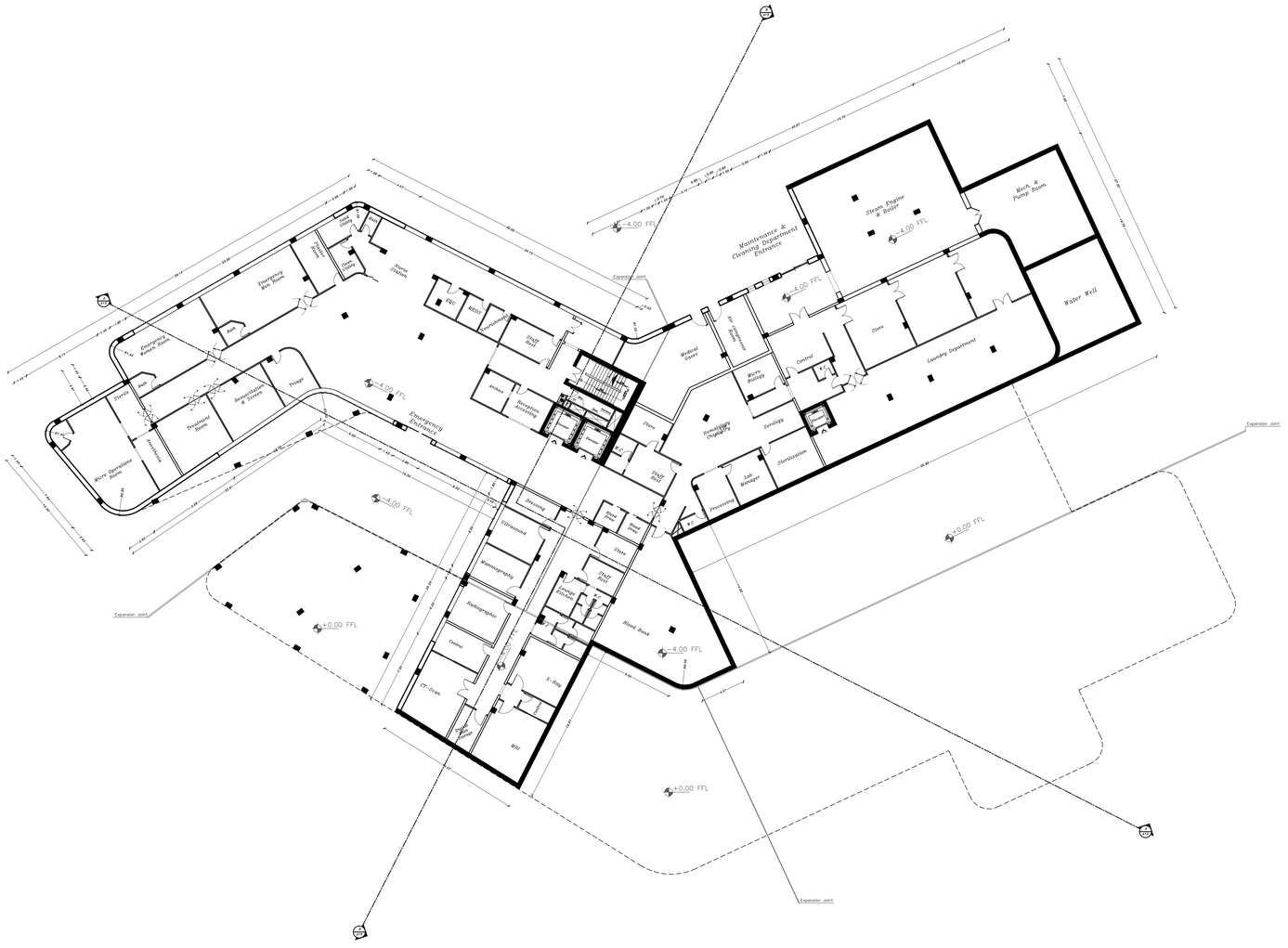
Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/200

A01



2 BASEMENT (-1) PLAN
SCALE 1:200M

N

NOTES:

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All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Basemen (-1) Floor Plan

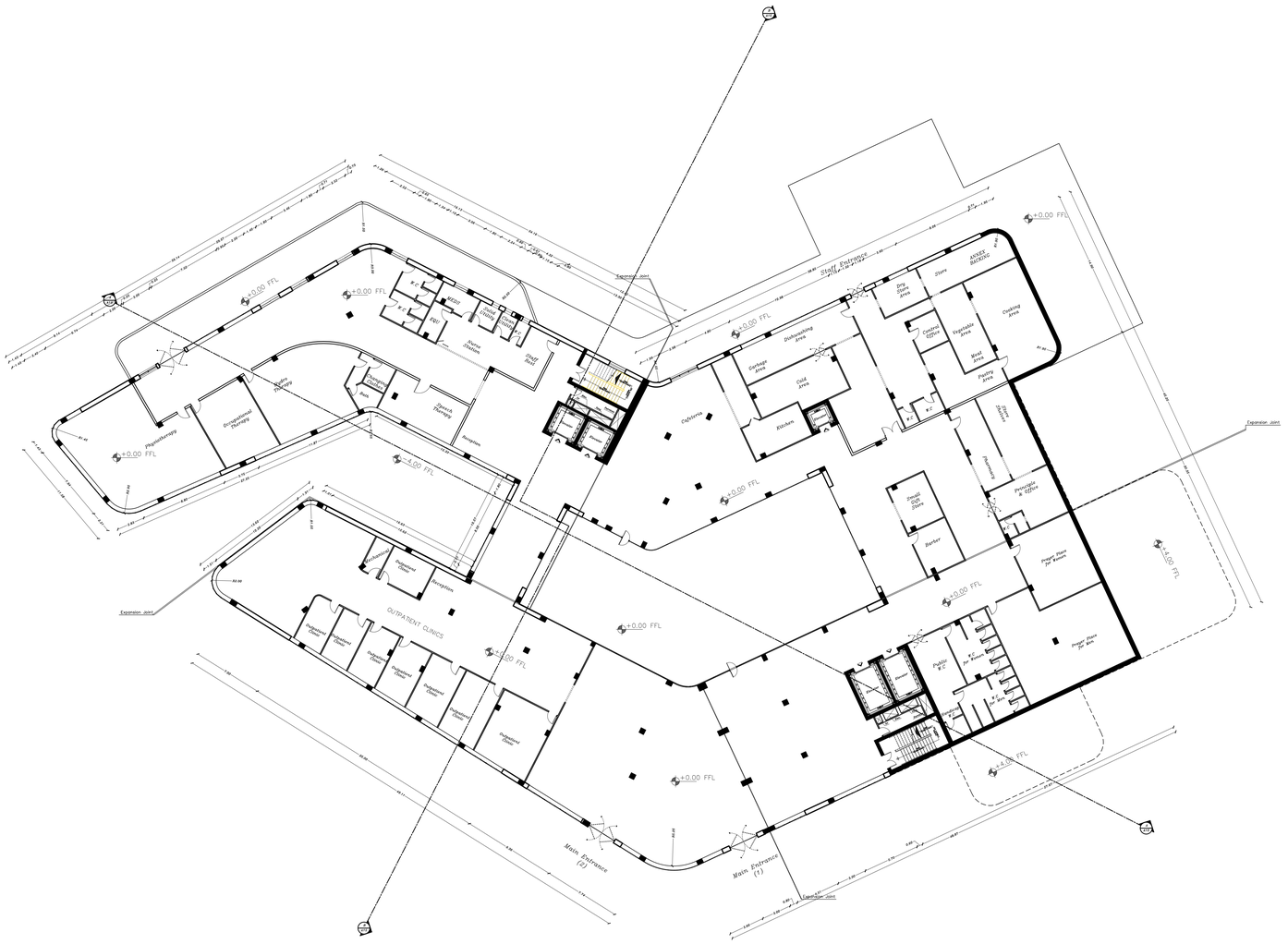
Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/200

A02



3 GROUND FLOOR PLAN
SCALE 1:200M

NOTES:

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All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Ground Floor Plan

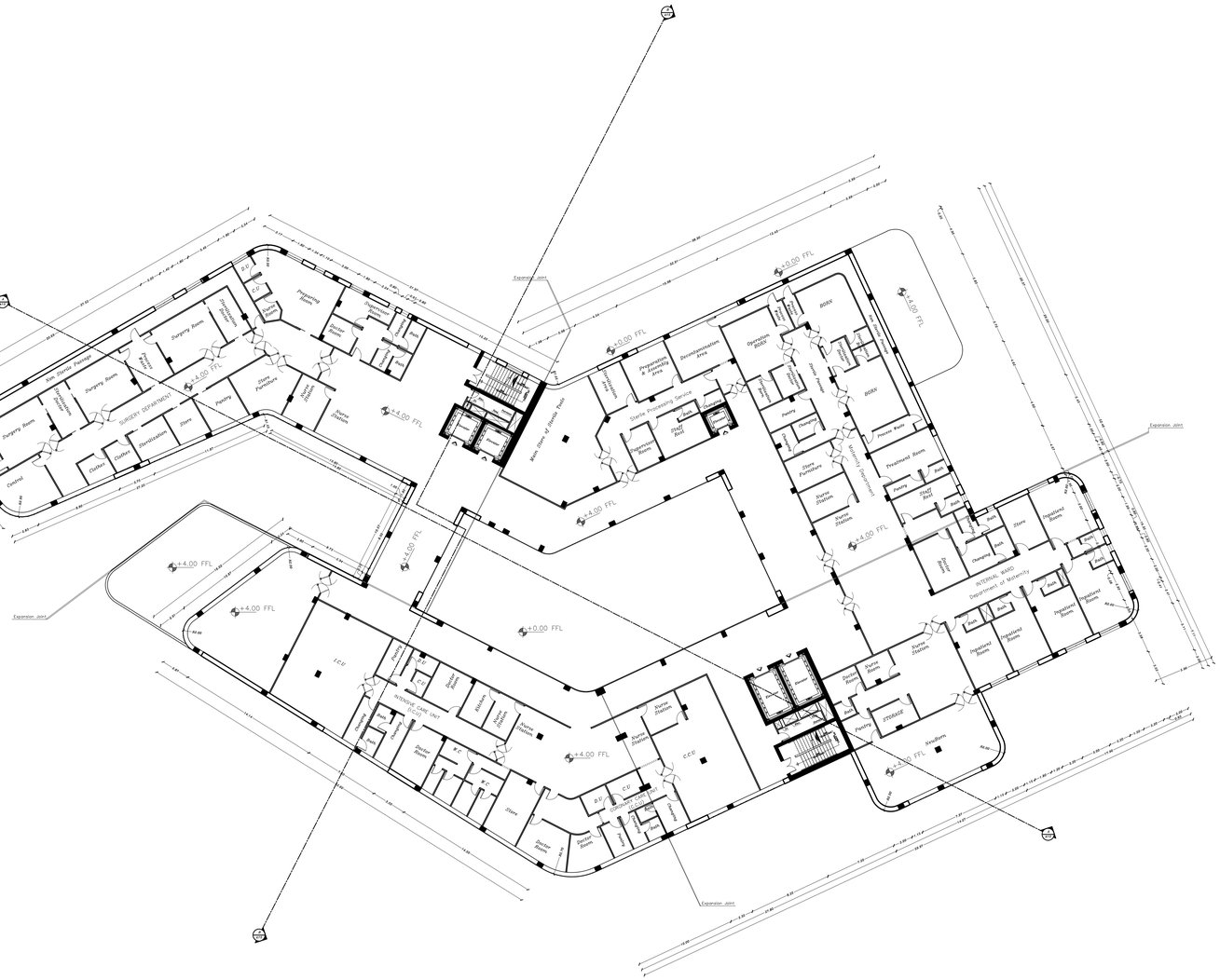
Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/200

A03


SURGERY DEPARTMENT
Surgery Room
Surgery Room
Surgery Room
Delivery Room
Clothes
Clothes
Sterilization
Stairs
Pediatrics Department
Pediatrics Department
Pediatrics Department

5 SECOND FLOOR PLAN
SCALE 1:200M

Palestine Polytechnic University

N

NOTES:

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All spot levels are in meters.

Palestine Polytechnic University
Civil. & Arch. Eng. Department
Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

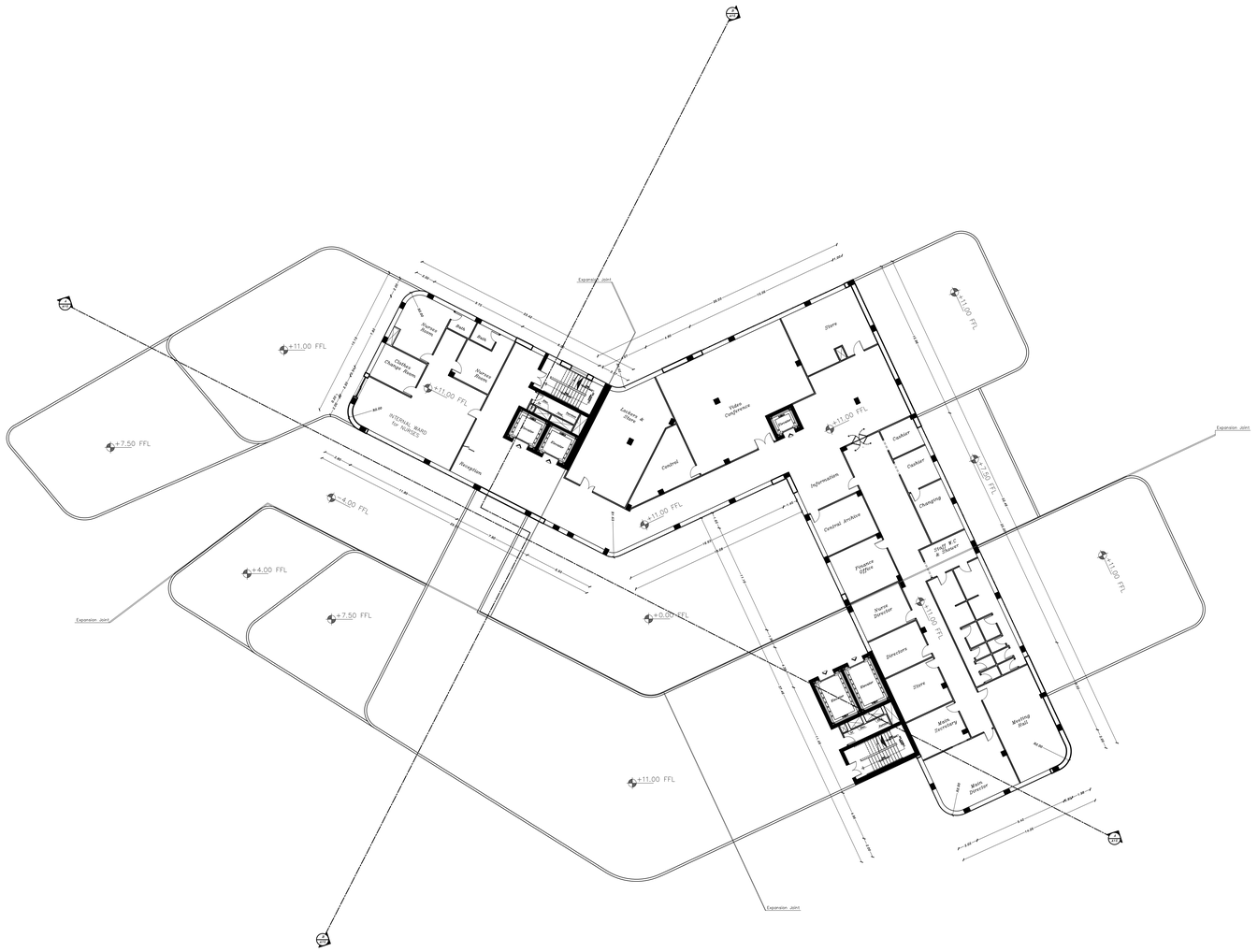
Second Floor Plan

Supervisor :

Eng. Sufian Al-Turk

SCALE:
1/200

A05



6 THIRD FLOOR PLAN
SCALE 1:200M

N

NOTES:

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All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Third Floor Plan

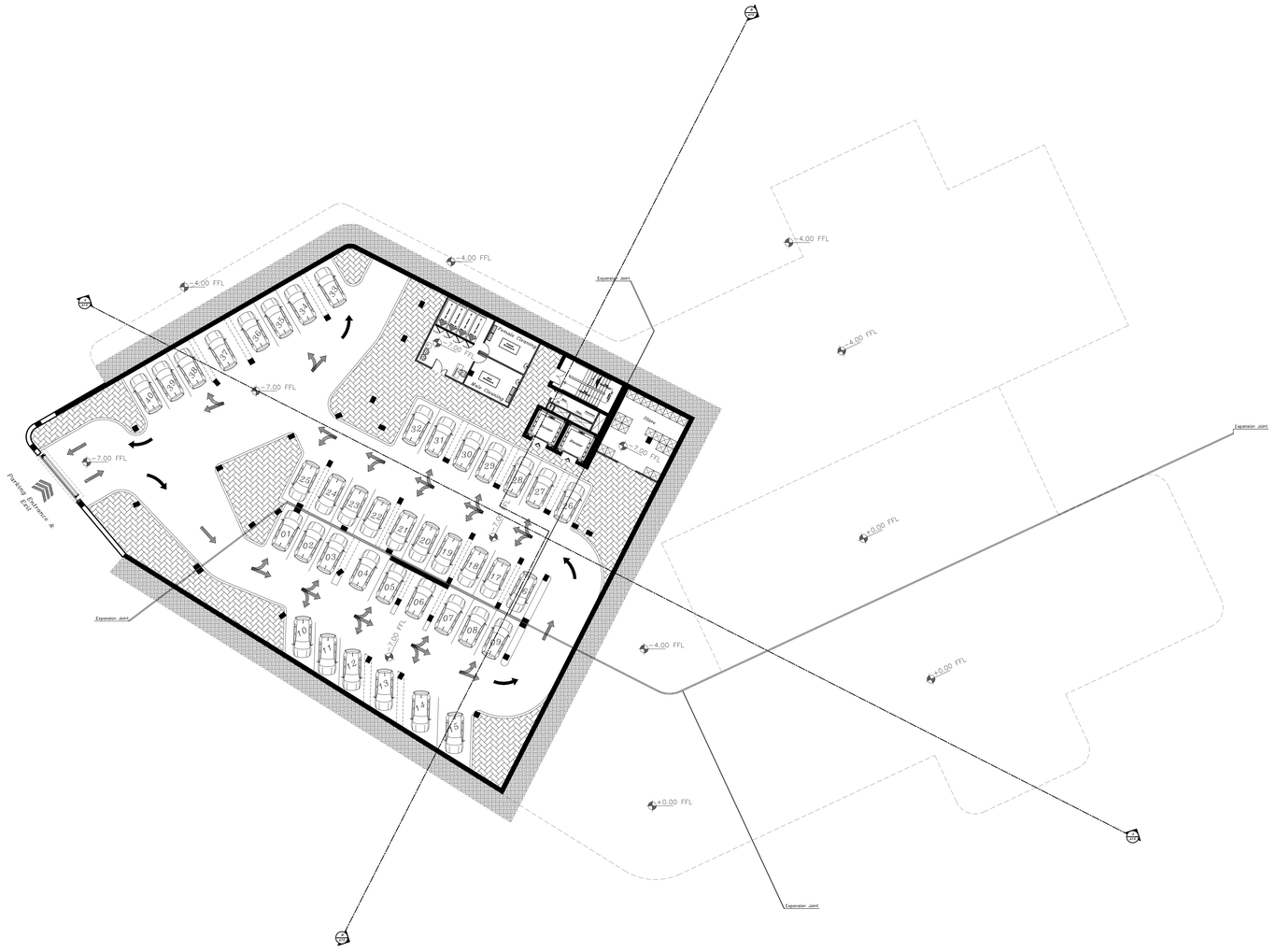
Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/200

A06



1 BASEMENT (-2) FURNITURE PLAN
SCALE 1:200M

NOTES:

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All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Basemen (-2) Floor Plan

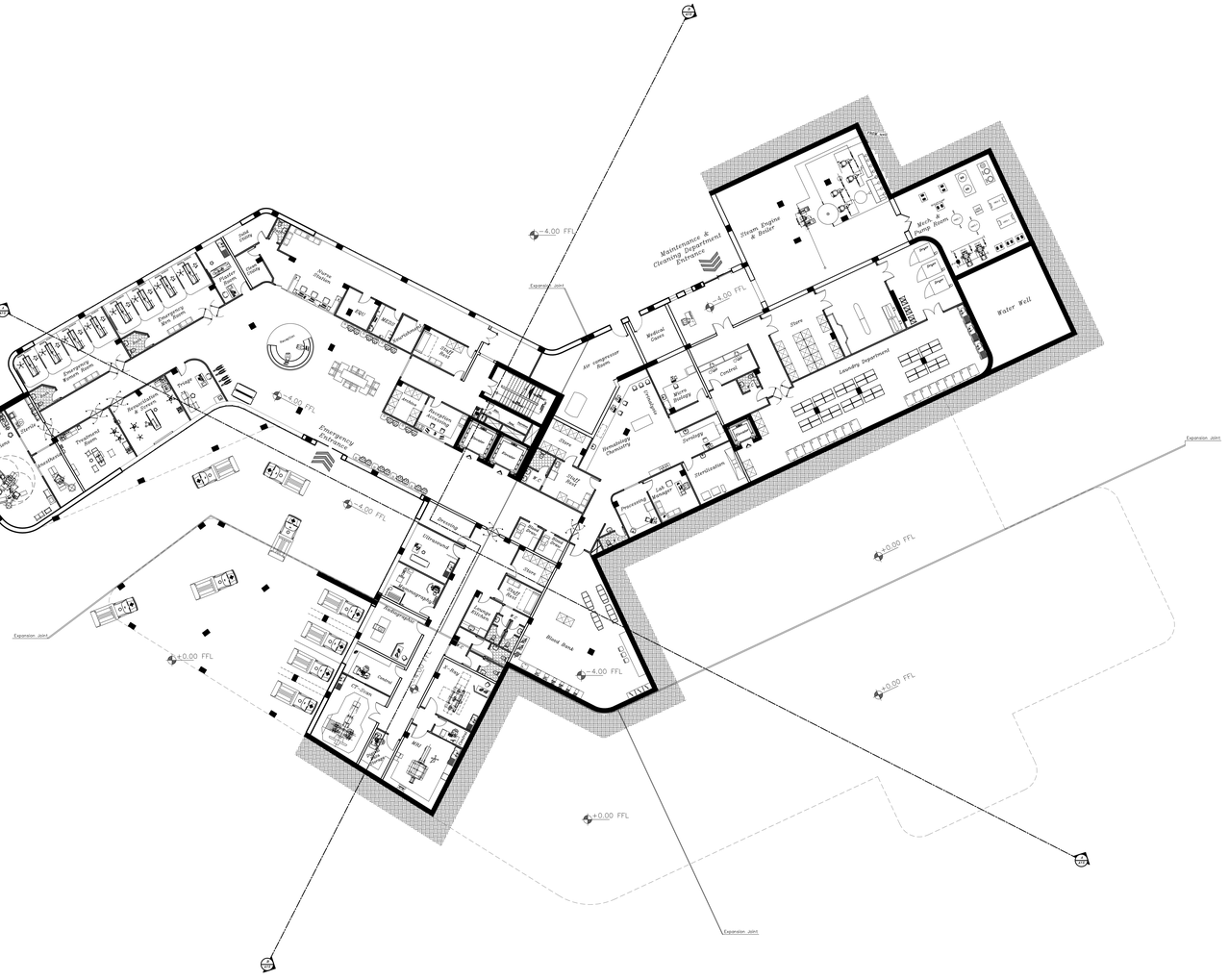
Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/200

A07



2 BASEMENT (-1) FURNITURE PLAN
SCALE 1:200M

Palestine Polytechnic University
رابطة الجامعين - الخليل

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Basemen (-1) Floor Plan

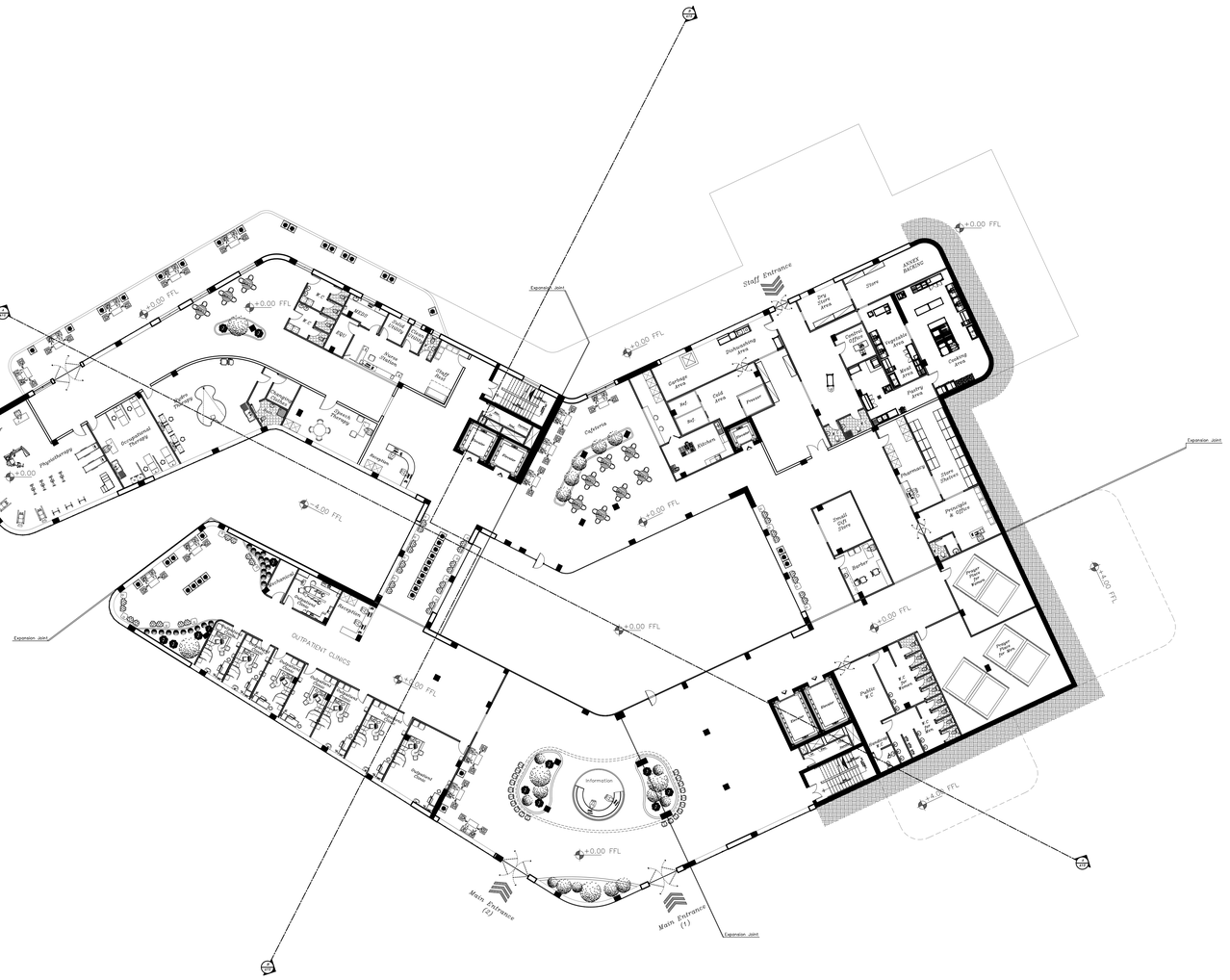
Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/200

A08



3 GROUND FLOOR FURNITURE PLAN
SCALE 1:200M

Palestine Polytechnic University
Civil. & Arch. Eng. Department
Building Engineering

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Ground Floor Plan

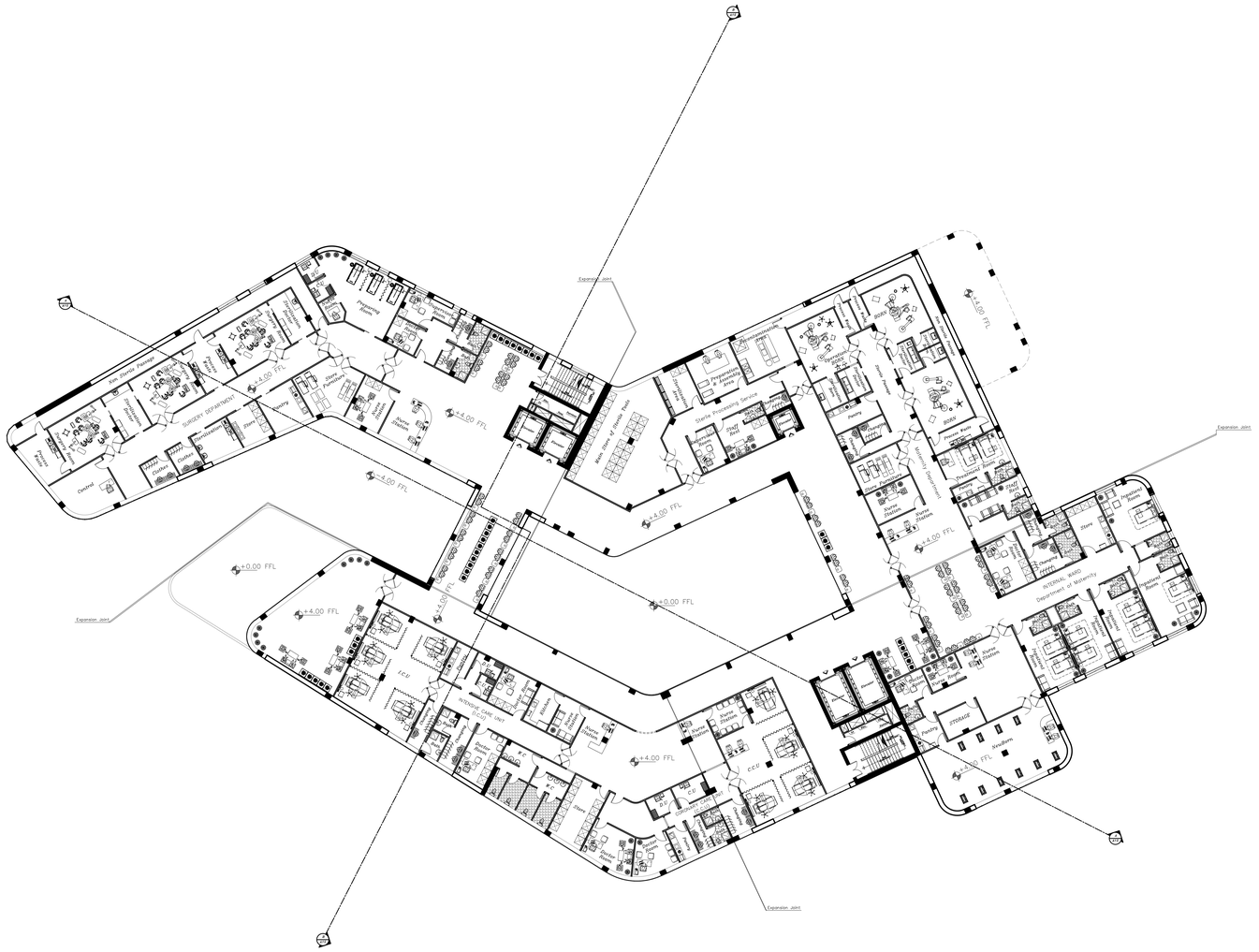
Supervisor :

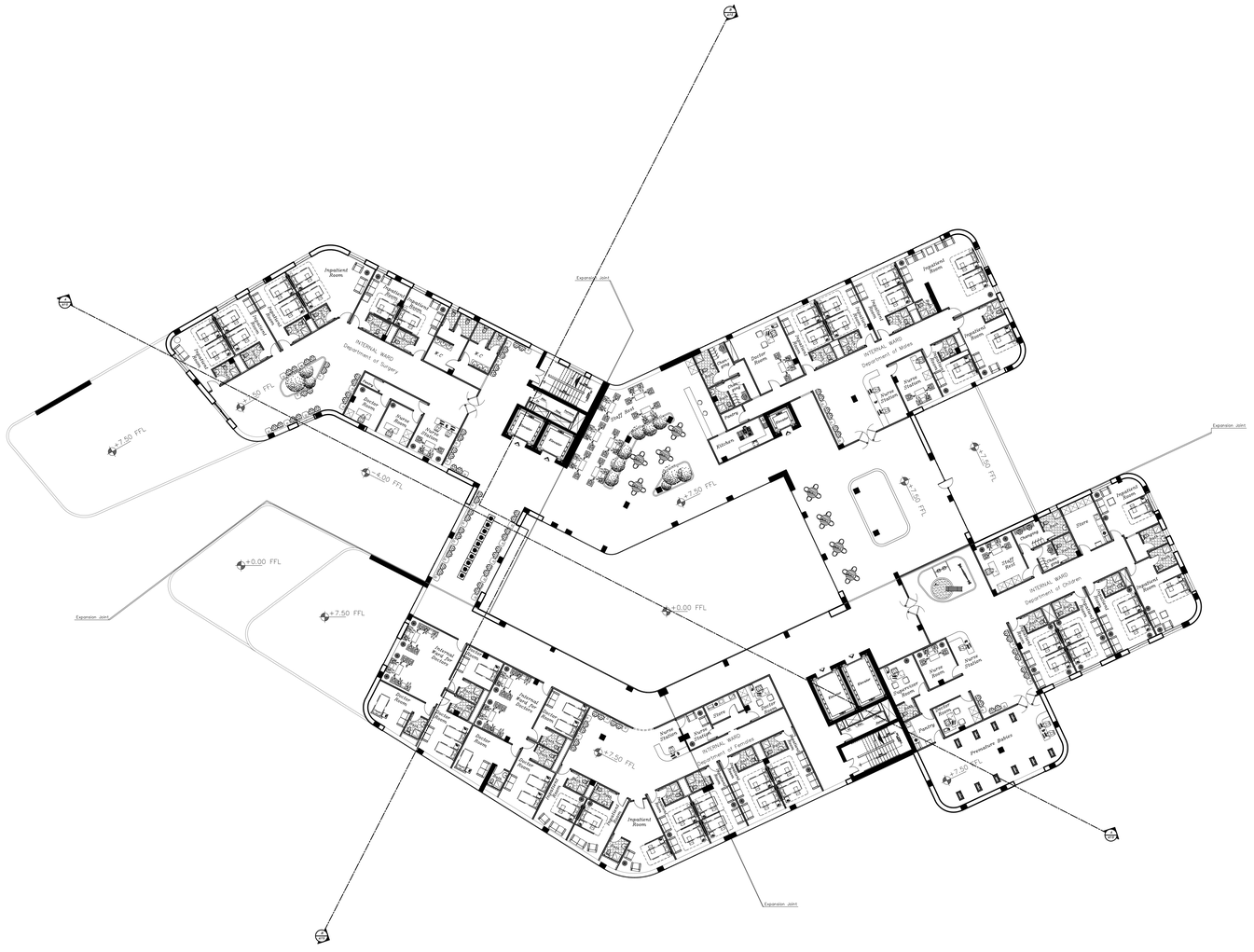
Eng. Sufian Al-Turk

SCALE:

1/200

A09


SURGERY DEPARTMENT
Surgery
Surgery Equipment
Surgery Preparation
Surgery Preparation Equipment
Surgery Preparation Area
Surgery Preparation Equipment
Surgery Preparation Area
Surgery Preparation Equipment
Surgery Preparation Area



5 SECOND FLOOR FURNITURE PLAN
SCALE 1:200M

Palestine Polytechnic University

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Second Floor Plan

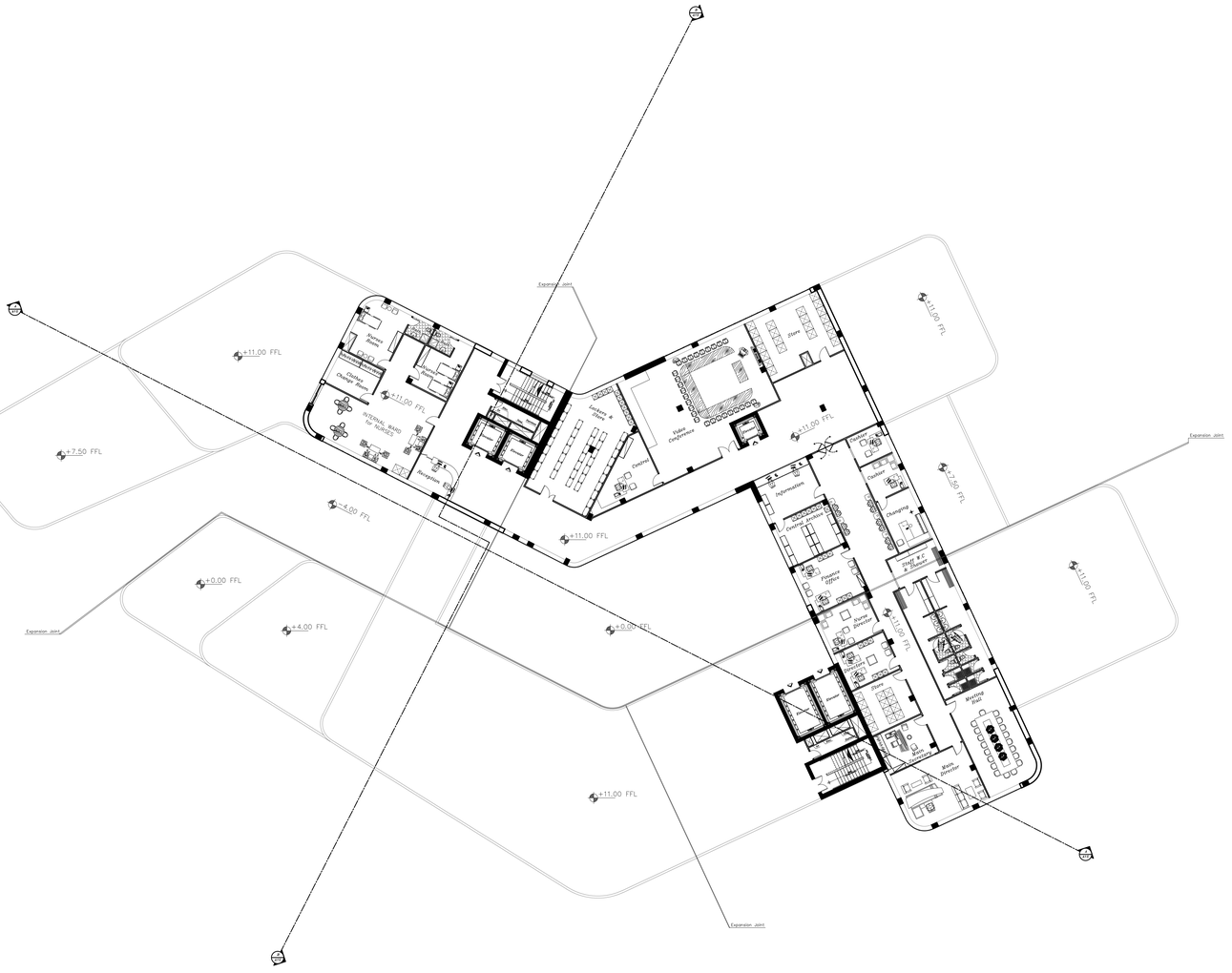
Supervisor :

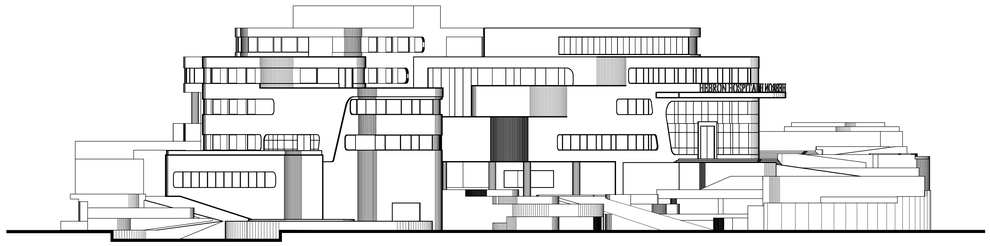
Eng. Sufian Al-Turk

SCALE:

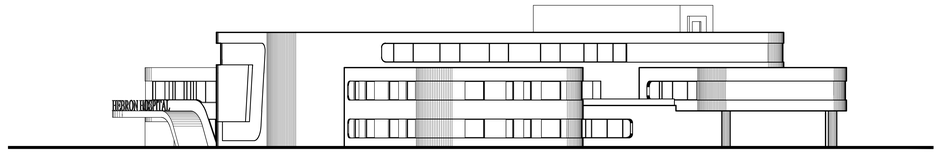
1/200

A11


Expansion Joint
+11.00 FFL
+7.50 FFL
+4.00 FFL
+0.00 FFL
Expansion Joint
Expansion Joint
+11.00 FFL
+7.50 FFL
+11.00 FFL
+11.00 FFL
+0.00 FFL
+4.00 FFL
+0.00 FFL
+11.00 FFL
+11.00 FFL
Expansion Joint
Boys Toilets
Girls Toilets
Nurse Room
Medical Records
Changing Room
Changing Room
INTERNAL WARD for NURSES
Reception
Lockers + Toilets
Video Conference
Store
Cleaner
Cleaner
Cleaner
Information
Project Office
Project Office
Project Office
Store
Store
Store
Store
Store
Meeting Hall
Meeting Hall
Main Generator
Boys Toilets
Girls Toilets
Store
Store
Store
Store
Store



1 WEST ELEVATION
SCALE 1:200



2 EAST ELEVATION
SCALE 1:200

N

NOTES:

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Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Elevations

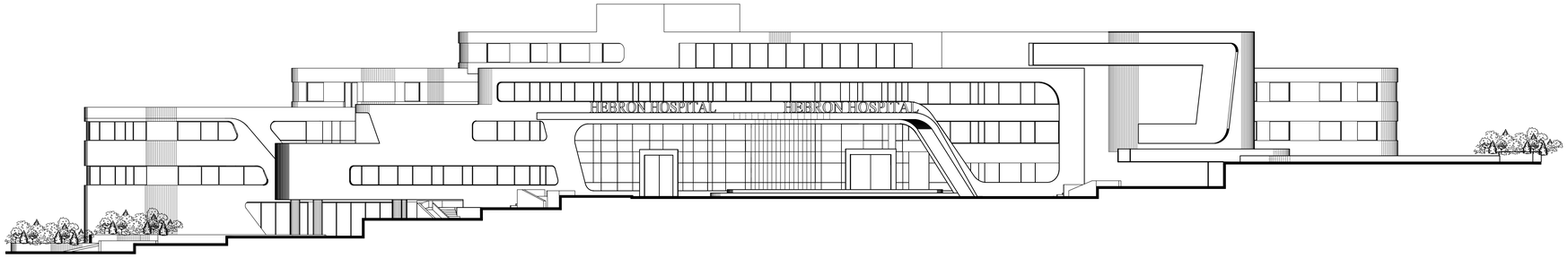
Supervisor :

Eng. Sufian Al-Turk

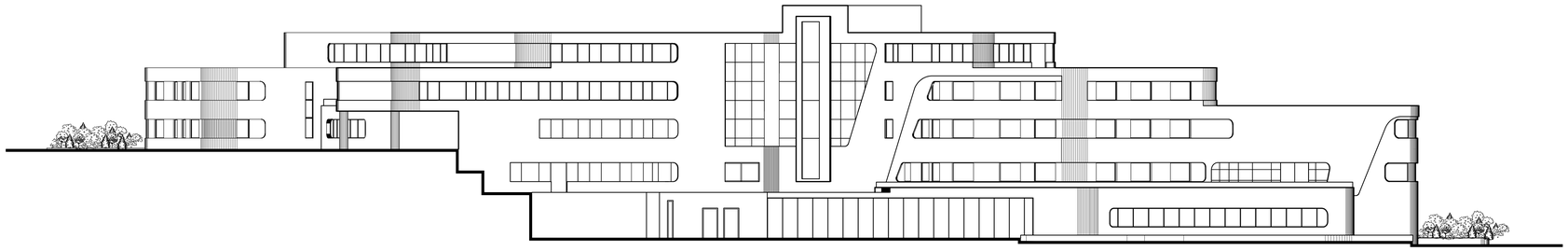
SCALE:

1/200

A13



3 SOUTH ELEVATION
SCALE 1:200



4 NORTH ELEVATION
SCALE 1:200

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Elevations

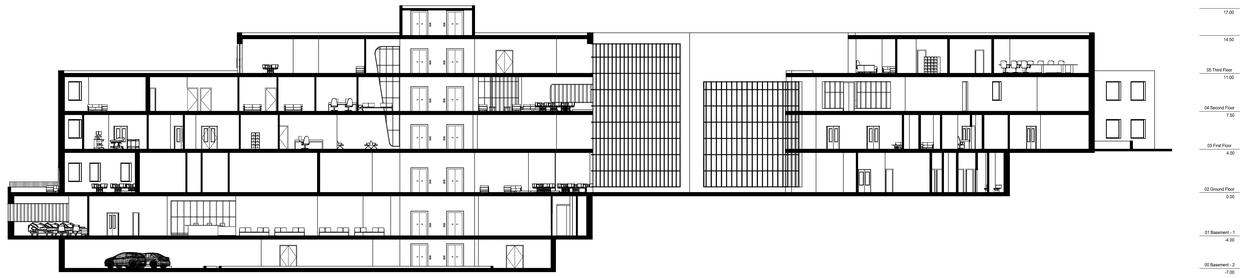
Supervisor :

Eng. Sufian Al-Turk

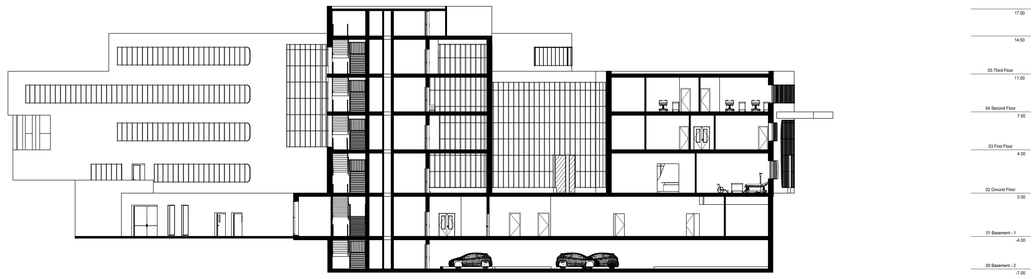
SCALE:

1/200

A14



1 SECTION A–A
SCALE 1:200



2 SECTION B–B
SCALE 1:200

N

NOTES:

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Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
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Drawing Title :

Elevations

Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/200

A15

Structural Design Criteria & Specifications & Construction Requirements

GENERAL NOTES

1. CODE OF PRACTICE

Detailing and workmanship shall be according to ACI 318-14 , and the technical specifications provided
Approved equivalent international codes shall be accepted.
Design for concrete done according to ACI 318-14
Uniform Building Code (ASCE 10-16) For the definition of lateral Seismic Loading.

2. DIMENSIONS

a) Gravity Loads Estimation are in Accordance of Jordan Code.
b) Distances and Dimensions in (cm) Reinforcement Bar Sizes in (mm)
Unless Otherwise Indicated on Drawings Elevations are in Meters.

3. DRAWINGS

1- Structural Drawings shall be read in Conjunction with Architectural.
2- Sleeves and Openings smaller than 200x200mm are not shown on the Structural Drawings .
For required Openings refer to Architectural, Mechanical and Electrical Drawings.
3- Contractor shall prepare Working Drawings and Bar Bending Schedules for Reinforcement in a Format agreed with the Engineer .
4- Contractor shall supply Detailed Drawings and Calculations for all support and temporary works and propping systems as applicable and all other relevant information subject to the Engineer's approval prior to commencement of construction .

4. REINFORCEMENT

1- Reinforcement shall be deformed high strength steel bars of characteristic strength of 420 Mpa complying with ASTM standards or equivalent for diameters 10mm & above .
2- Reinforcement shall be deformed steel bars of characteristic strength of 420 MPa complying with ASTM standards or equivalent for diameters 10mm & below .
3- Contractor to provide bar bending schedule.
4- Where bar length is not specified , longest practicable bar length shall be employed with staggered lap splices. Lap length shall be 30 times bar diameter .

5. REINFORCED CONCRETE

The following two types of reinforced concrete shall be employed:
B350 - Grade 350 for all reinforced concrete members except architectural fair faced concrete facades.
Characteristic Strength as defined by a 150 mm cube at age of 28 days shall be:
B350 - 35*0.8= 28 MPa(Because it is Cube Specimen)

6. PLAIN CONCRETE

The following type of plain concrete shall be employed:
B200 - Grade 200 concrete of characteristic cube strength equal to 20 MPa , minimum cement content of 200 kilograms per cubic meter, and a maximum water cement ratio of 0.70 to be used for Blinding Concrete under foundations.

7. AGGREGATES

Maximum Aggregate Size shall be 25 mm.

8. FOUNDATIONS

- Contractor shall adhere strictly to the Geotechnical Report for this project. He shall be responsible to determine Strata Characteristics at the Appropriate Levels.
- Allowable Bearing capacity =400 KN/m2 .

9. BACK Fill

All Back Fill Material shall conform to Specifications and shall be properly tested. No Back Filling is permitted around

10. DESIGN LOADING

Basement Walls prior to pouring of Framing Slabs .
Design Live Loads are as follows:
Live Load= 5.0 KN/m^2

GENERAL NOTES

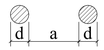
1. NOTATION

T.B=TOP BARS
B.B=BOTTOM BARS
S= SPACING.
Ø= DIAMETER FOR STEEL BARS .
@ OR / = INDICATES THAT THE FOLLOWING NUMBER IS THE SPACING BETWEEN BARS.

2. COVER

Clear Concrete cover to Reinforcement shall be :
75mm for Concrete Below Grade for Non-salty Soils
20mm for Ribs 40mm for Beams 40mm for Columns
40mm for Walls 20mm for Slabs and Ribs
Reinforcing Bars of Girder shall be anchored over the center line of Column,
And Reinforcing Bars of Sub-beam shall be anchored over the Center line of Girder.

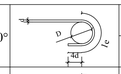
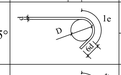
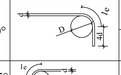
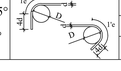
3. Min. Bar Spacing



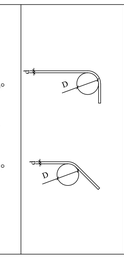
Unless otherwise shown below, Sub-beam and Cantilever Beam shall be conformed
Bar spacing "a" shall be not less than the greatest in the following three cases:
1) 25 mm 2) 1.5 d
3) 1.25 times the max size of coarse aggregate.

Standerd Hook Details and Bar Bends

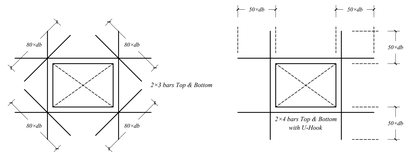
End position

Hook details			Secondary Steel	Main Steel	Application
180°		D	4d	5d	16mm dia. bar and larger
		1e	12d	14d	
135°		D	4d	--	13mm dia. bar and smaller
		1e	12d	--	
90°		D	4d	--	T- and L-shape stirrups
		1e	12d	--	
135° 90°		D	4d	--	Spacer bar
		1e	8d	--	
		1'e	10d	--	

Intermediate position

Hook details			Secondary Steel	Main Steel	Application
90° or 45°		D	3d and over		Hoop and stirrup
		D	4d and over		16mm dia. bar and smaller
		D	5d and over	6d	Main bars less than 30mm in column and girder
		D	8d	8d	30mm dia bar and over in column and girder

Typical Reinforcement Detail Around Openings In Slabs



N

NOTES:

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All spot levels are in meters.

Palestine Polytechnic University
Civil. & Arch. Eng. Department
Building Engineering

Designed By:
ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :
General Notes

Supervisor :
Eng. Sufian Al-Turk

SCALE:
1/100

S00

Palestine Polytechnic University
رابطة الجامعيين - الخليل

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Coordination Plan

Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/150

S01

Column Number	X	Y
C1	75.44	64.87
C2	80.40	67.18
C3	84.94	69.29
C4	62.21	54.46
C5	67.98	57.15
C6	72.51	59.26
C7	76.97	61.35
C8	82.03	63.7
C9	86.56	65.82
C10	71.50	53.50
C11	79.00	57.00
C12	83.28	59.00
C13	89.49	61.89
C14	93.05	63.55
C15	95.87	62.60
C16	61.50	43.37
C17	65.67	45.42
C18	70.05	47.36
C19	78.11	51.12
C20	85.46	54.55
C21	97.10	59.97
C22	61.32	36.88
C23	64.55	38.36
C24	71.05	41.39
C25	83.88	47.38
C26	87.93	49.26
C27	94.13	52.16
C28	99.56	54.69
C29	100.27	53.18
C30	54.18	34.90
C31	55.59	34.18
C32	59.09	32.51
C33	66.12	34.99
C34	71.56	37.53
C35	82.56	42.65
C36	89.41	45.85
C37	95.71	48.79
C38	99.25	50.44
C39	51.30	29.77
C40	56.38	27.18
C41	62.24	24.25
C42	49.26	25.54

Column Number	X	Y
C43	78.98	35.88
C44	84.1	38.27
C45	91.45	41.7
C46	97.66	44.59
C47	80.92	31.71
C48	86.05	34.10
C49	93.40	37.53
C50	99.60	40.43
C51	82.90	27.48
C52	88.07	29.89
C53	95.37	33.29
C54	101.58	36.19
C55	65.14	18.42
C56	71.16	21.23
C57	77.17	24.04
C58	83.19	26.84
C59	88.36	29.25
C60	95.67	32.66
C61	101.88	35.55
C62	110.08	39.38
C63	112.72	38.46
C64	67.28	13.96
C65	73.25	16.74
C66	90.41	24.75
C67	97.78	28.17
C68	106.10	32.06
C69	113.98	35.74
C70	69.62	8.93
C71	75.14	11.50
C72	92.51	19.30
C73	100.22	22.89
C74	107.88	26.46
C75	116.44	30.46
C76	117.68	27.81
C77	71.89	4.19
C78	77.81	6.96
C79	94.57	14.77
C80	102.23	18.34
C81	109.98	21.96
C82	116.73	25.10
C83	91.36	9.32
C84	98.40	12.60

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Columns Coordination

Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/150

S02

Column Number	X	Y
C85	103.84	15.14
C86	94.71	6.99
C87	98.67	8.83
C88	103.47	11.07
C89	18.15	26.70
C90	24.94	22.46
C91	31.67	18.25
C92	36.60	15.17
C93	40.91	12.48
C94	53.31	4.73
C95	71.28	3.92
C96	17.11	30.48
C97	25.28	26.04
C98	33.79	21.70
C99	36.98	20.08
C100	44.47	16.26
C101	49.49	13.67
C102	57.96	9.38
C103	96.12	8.70
C104	24.84	36.30
C105	30.96	30.32
C106	36.70	27.40
C107	39.88	25.78
C108	47.38	21.96
C109	52.40	19.37
C110	58.95	13.88
C111	66.79	13.73
C112	26.74	36.45
C113	49.03	25.1
C114	54.02	22.56
C115	64.73	18.23
C116	41.77	29.48
C117	46.58	27.02
C118	44.01	33.88
C119	48.82	31.43
C120	10.85	37.03
C121	19.04	40.63
C122	26.15	43.75
C123	30.83	45.80
C124	35.11	44.62
C125	41.44	41.39
C126	46.43	38.85

Column Number	X	Y
C127	51.42	36.31
C128	5.39	37.08
C129	34.22	47.37
C130	10.74	44.53
C131	18.78	49.07
C132	22.20	51.15
C133	29.71	55.48
C134	37.30	53.42
C135	43.87	50.02
C136	0.69	42.68
C137	39.02	56.81
C139	16.85	54.01
C140	25.86	59.21
C141	30.39	61.82
C142	33.54	61.90
C143	38.71	59.27
C144	41.78	57.70
C145	46.50	55.30
C146	7.41	53.07
C147	13.31	56.48
C148	18.94	59.73
C149	24.57	61.98
C150	30.15	66.20
C151	31.87	66.25
C152	38.06	63.10
C153	44.30	59.91
C154	50.81	56.60
C155	57.46	53.21
C156	61.60	54.17
C157	16.81	30.88
C158	22.28	34.99
C159	26.97	36.90
C160	31.36	34.67
C161	35.81	32.40
C162	29.93	41.06
C163	36.93	37.37
C164	41.49	28.94
C165	61.10	11.08
C166	64.94	11.34
C167	25.63	31.57
C168	97.58	65.66

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Columns Coordination

Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/150

S03

Number	Type	Start		End	
		X	Y	X	Y
1−a	Basement Wall	8.22	49.08	31.98	62.60
1−b	Basement Wall	31.98	62.60	53.12	51.98
1−c	Basement Wall	53.36	51.80	58.98	48.44
2−a	Basement Wall	59.58	48.69	65.92	45.46
2−b	Basement Wall	65.72	45.40	54.20	22.80
3	Basement Wall	51.11	22.74	48.30	11.22
4	Basement Wall	46.77	8.76	14.62	28.85
5	Basement Wall	14.53	28.90	9.6	32.00
6−a	Basement Wall	73.65	68.24	87.61	74.45
6−b	Basement Wall	87.68	74.94	91.02	67.78
6−c	Basement Wall	91.09	67.98	100.33	72.29
6−d	Basement Wall	100.41	72.49	104.52	63.68
7−a	Basement Wall	108.42	54.72	62.67	33.33
7−b	Basement Wall	62.60	33.13	68.39	20.71
7−c	Basement Wall	68.59	20.64	64.50	18.73
7−d	Basement Wall	64.50	18.73	54.40	22.87
8	Basement Wall	51.11	22.74	48.30	11.22
9	Basement Wall	46.77	8.76	34.75	16.2
W−1	Water−Tank Wall	104.71	63.63	96.88	59.98
W−2	Water−Tank Wall	104.61	63.36	108.52	54.98
W−3	Water−Tank Wall	100.95	51.23	108.78	54.88
W−4	Water−Tank Wall	97.14	59.88	101.05	51.50

N

NOTES:

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Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Basement Walls & Water Tank Walls Coordination

Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/150

S04

Number	Type	Start		End	
		X	Y	X	Y
1	Shear Wall	55.27	40.56	59.51	48.59
2	Shear Wall	54.95	40.72	59.20	49.05
3	Shear Wall	52.15	42.48	53.51	45.16
4	Shear Wall	49.21	43.98	50.66	46.83
5	Shear Wall	51.59	48.66	53.32	52.05
6	Shear Wall	49.00	43.92	54.89	40.92
7	Shear Wall	50.75	46.68	56.36	43.82
8	Shear Wall	51.80	48.73	57.41	45.87
9	Shear Wall	2.88	45.94	8.24	49.04
10	Shear Wall	35.98	31.75	41.67	28.85
11	Shear Wall	46.87	8.52	48.26	11.24
12	Shear Wall	58.34	20.36	61.90	18.54
13	Shear Wall	58.72	1.35	64.97	0.96
14	Shear Wall	74.89	45.75	77.52	46.98
15	Shear Wall	77.44	46.78	78.34	44.85
16	Shear Wall	75.91	73.55	78.54	44.78
17	Shear Wall	75.99	43.75	75.09	45.68
18	Shear Wall	64.70	50.35	68.54	52.12
19	Shear Wall	91.01	58.85	92.37	55.95
20	Shear Wall	75.53	39.38	77.20	40.16
21	Shear Wall	77.11	39.89	77.80	38.40
22	Shear Wall	89.93	12.39	85.18	22.58
23	Shear Wall	84.30	16.66	82.31	20.91
24	Shear Wall	79.24	19.81	81.48	15.01
25	Shear Wall	82.25	13.00	83.86	9.55
26	Shear Wall	85.06	22.36	79.44	19.74
27	Shear Wall	87.17	17.83	81.55	15.21
28	Shear Wall	88.21	15.61	82.45	12.93
29	Shear Wall	89.67	12.48	83.91	9.80

N

NOTES:

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All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Shear Walls Coordination

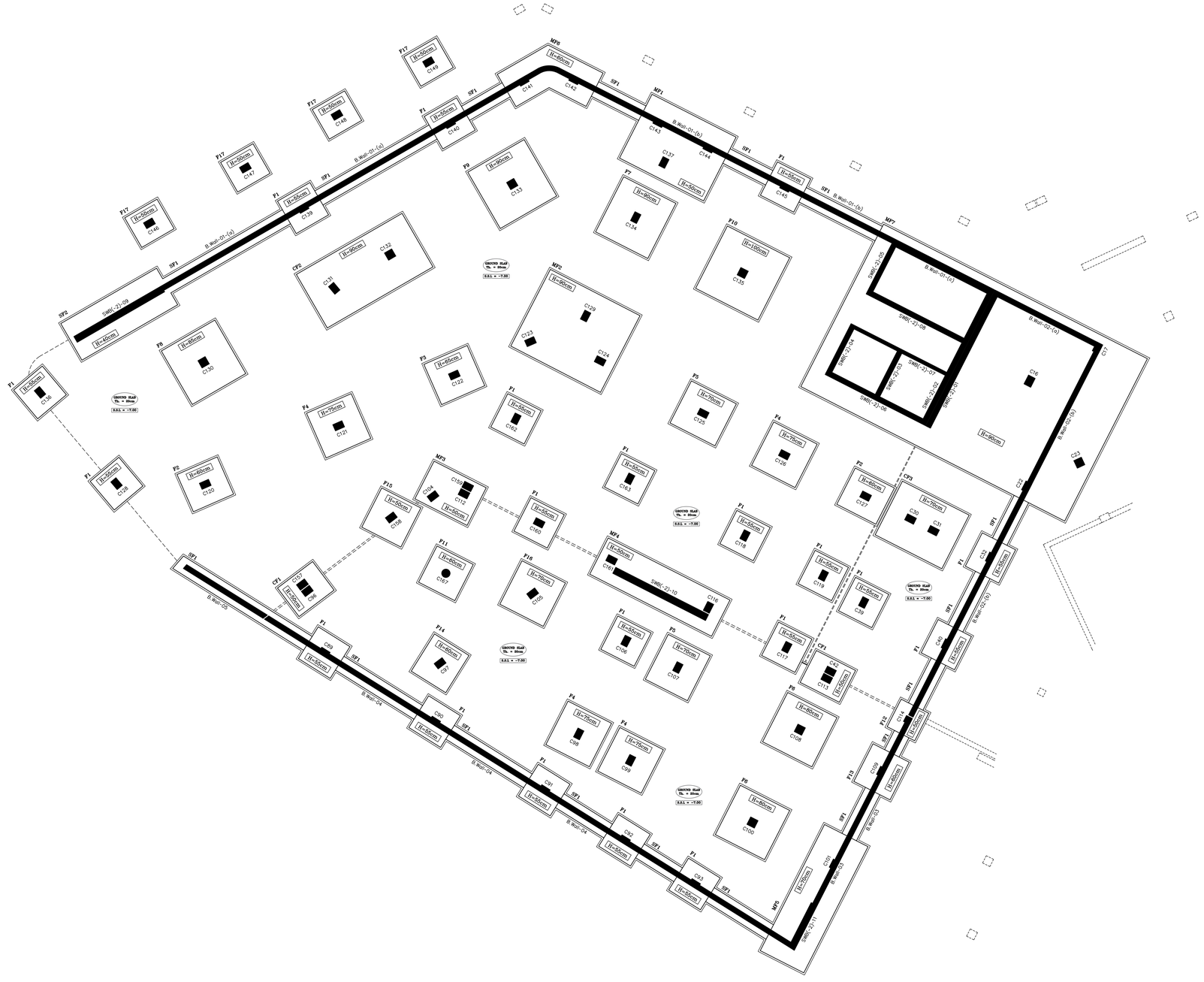
Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/150

S05



Palestine Polytechnic University

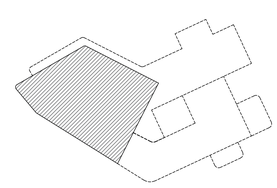
Civil. & Arch. Eng. Department

Building Engineering

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details -8.20m Level

Supervisor :

Eng. Sufian Al-Turk

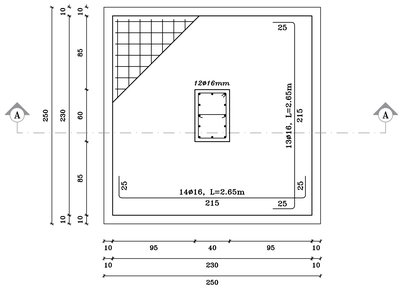
SCALE:

1/100

S06

Footing (F1)

C32 , C39 , C40 , C89 , C90 , C91 , C92 , C93
C106 , C117 , C118 , C119 , C128 , C136 , C139
C140 , C145 , C160 , C162 , C163



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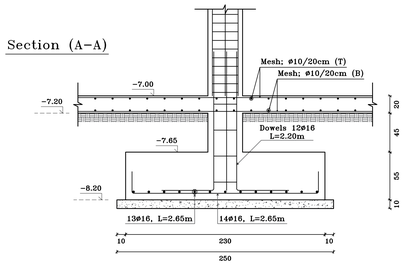
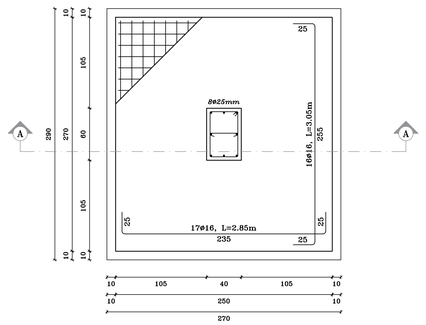


Footing (F2)

C120 , C127



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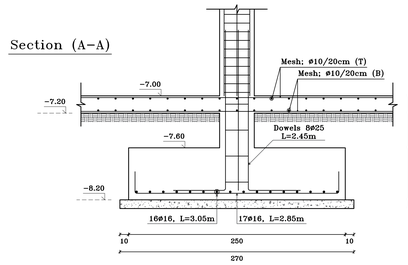
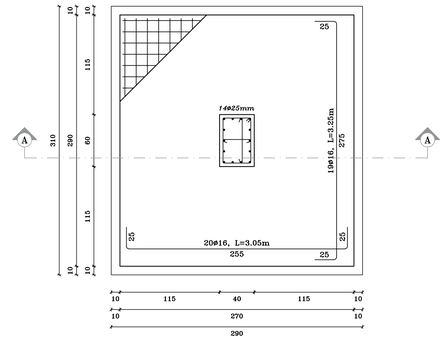


Footing (F3)

C122



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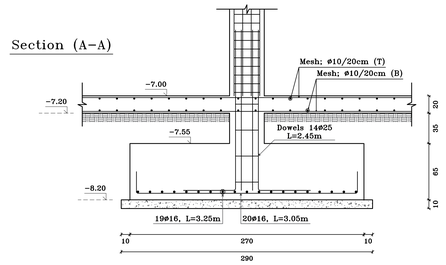
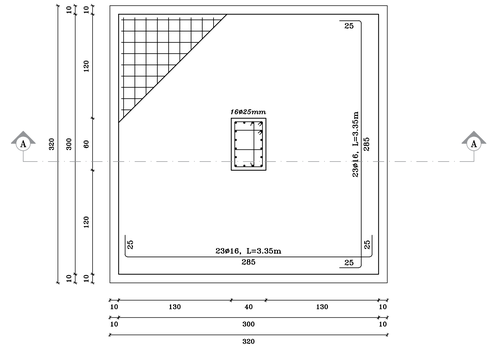


Footing (F4)

C98 , C99 , C121
C126



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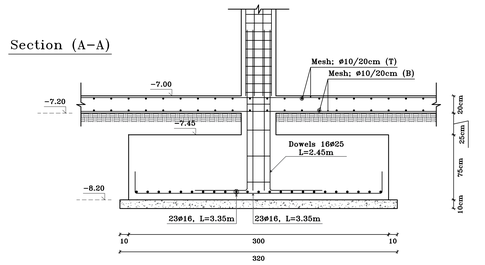
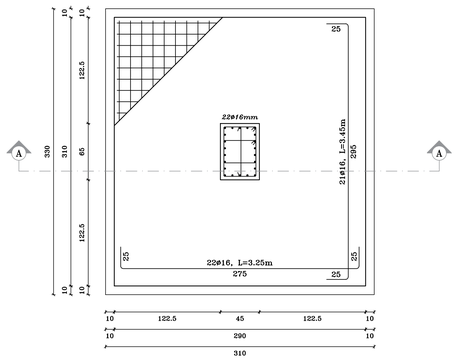


Footing (F5)

C107 , C125



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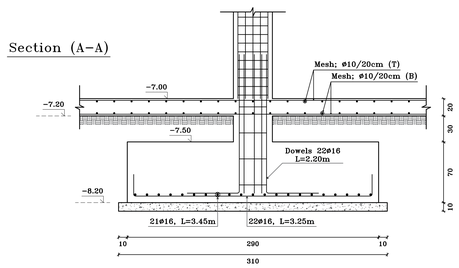
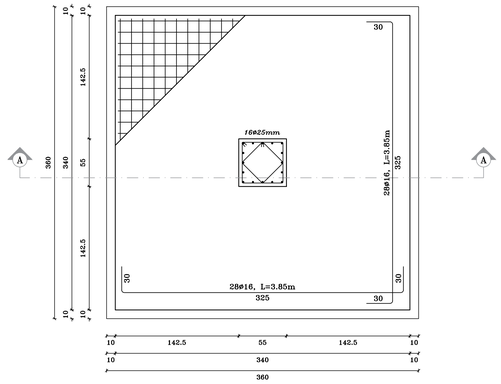


Footing (F6)

C100 , C108



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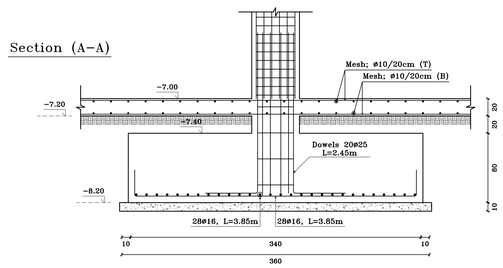
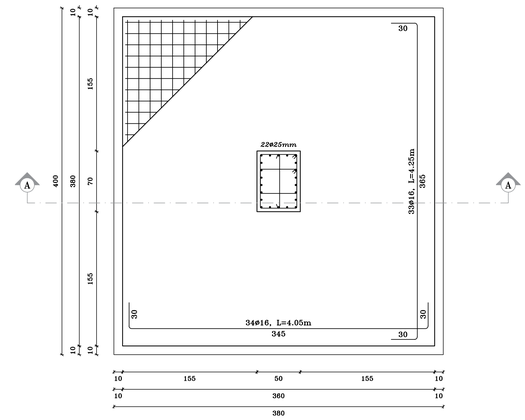


Footing (F7)

C134



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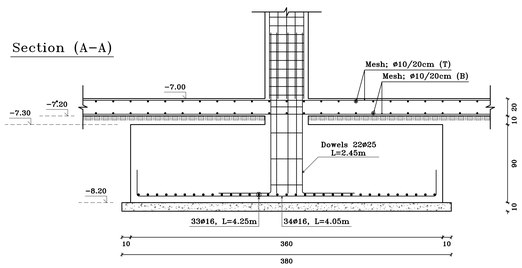

NOTES:

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All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details

Supervisor :

Eng. Sufian Al-Turk

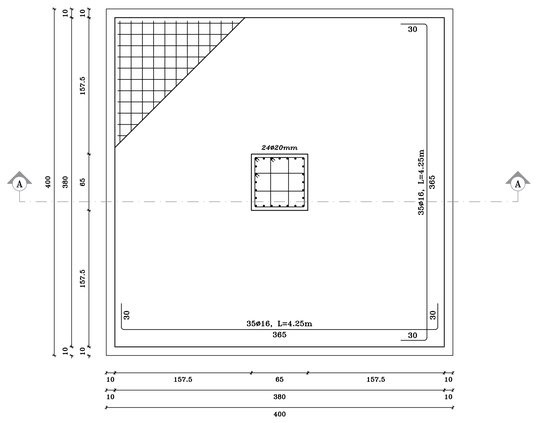
SCALE:

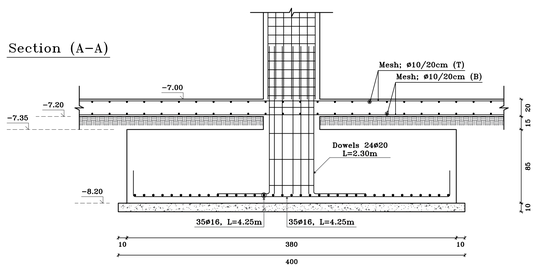
1/25

S07

Footing (F8)

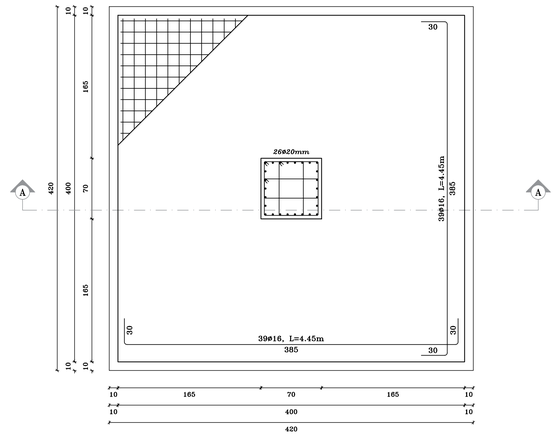
C130

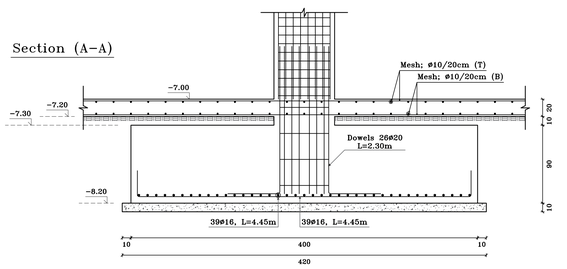




Footing (F9)

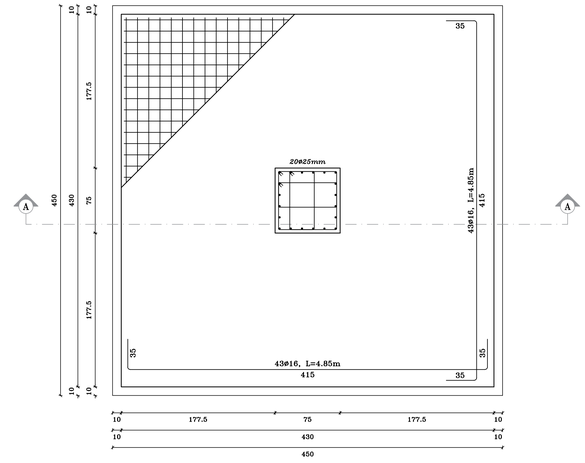
C133

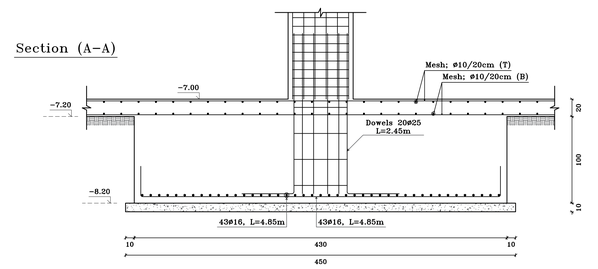




Footing (F10)

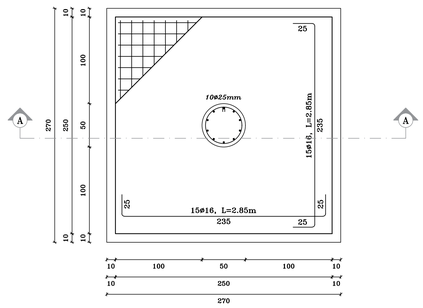
C135

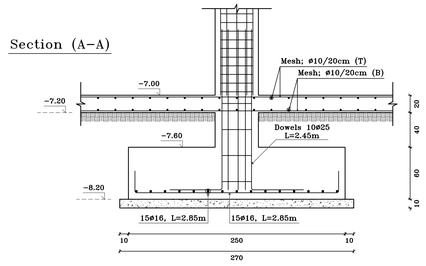




Footing (F11)

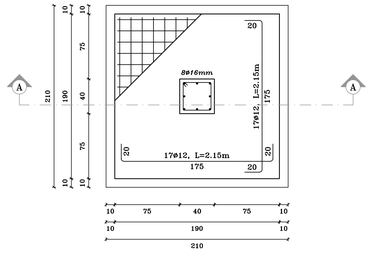
C167

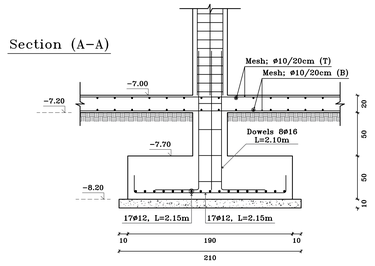




Footing (F12)

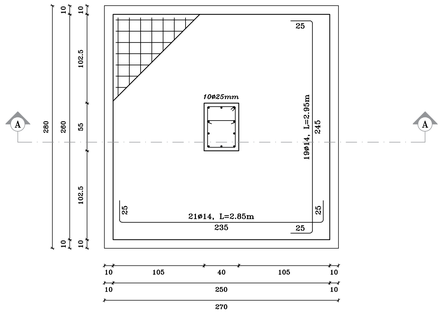
C114

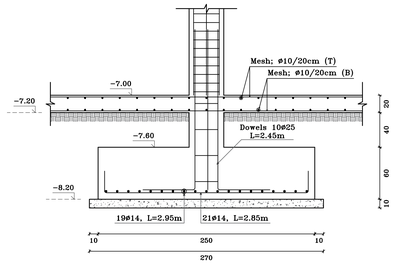




Footing (F13)

C109





N

NOTES:

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Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details

Supervisor :

Eng. Sufian Al-Turk

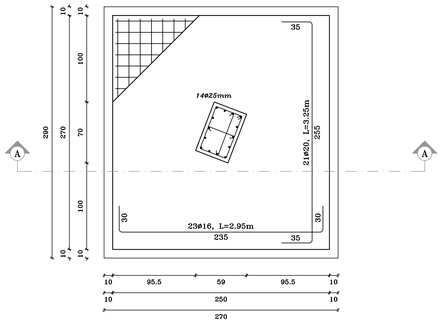
SCALE:

1/25

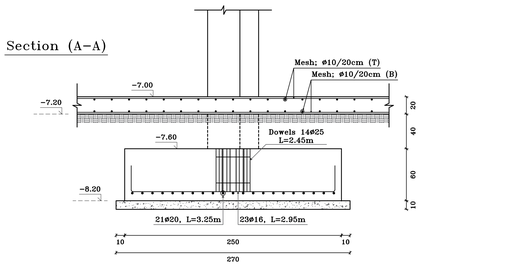
S08

Footing (F14)

C97

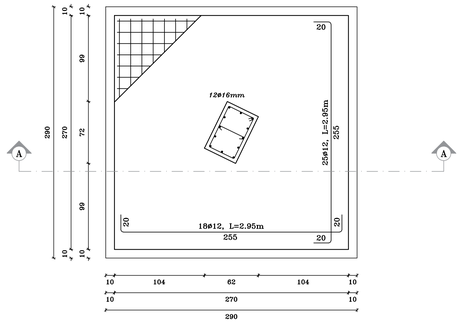


Section (A-A)

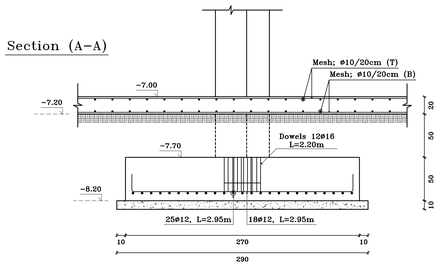


Footing (F15)

C158

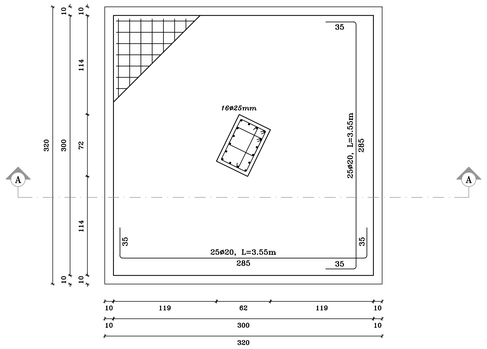


Section (A-A)



Footing (F16)

C105



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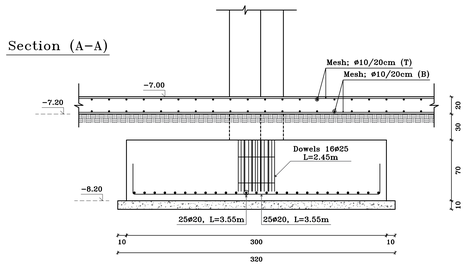
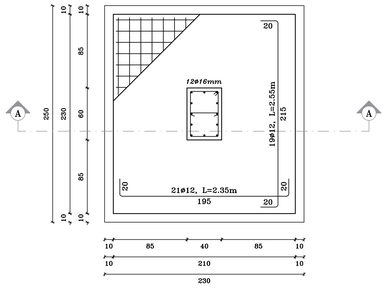
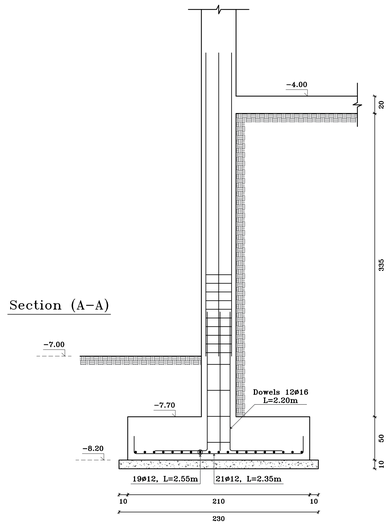


Footing (F17)

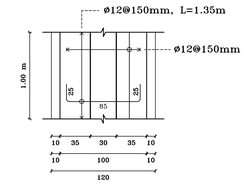
C146 , C147 , C148
C149

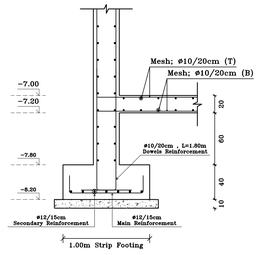


Section (A-A)



Strip Footing (SF1)





NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details

Supervisor :

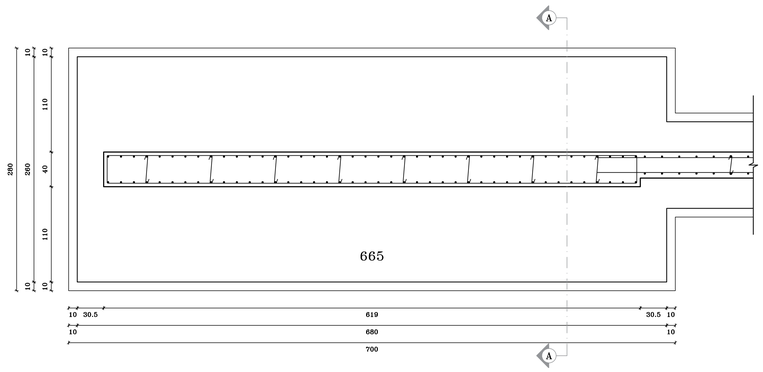
Eng. Sufian Al-Turk

SCALE:

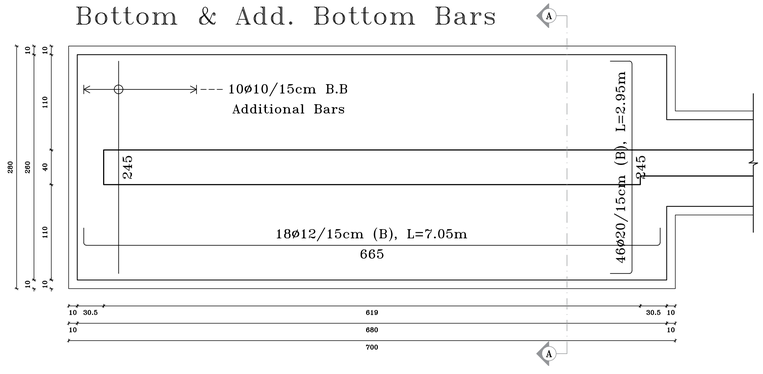
1/25

S09

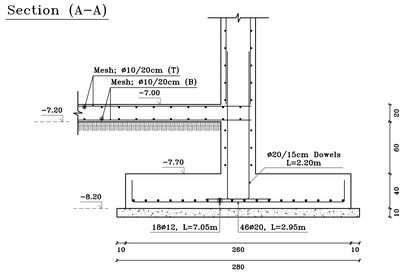
Strip Footing (SF2)



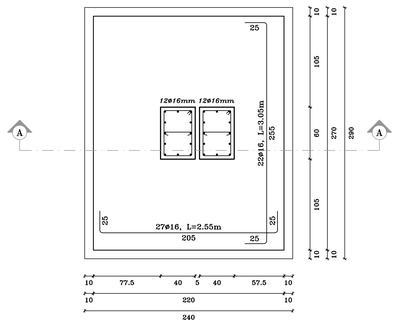
Bottom & Add. Bottom Bars



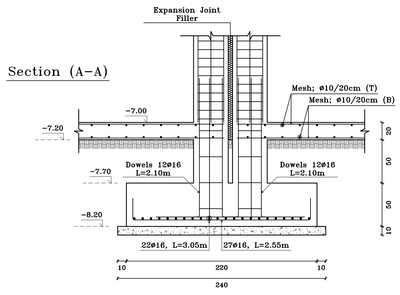
Section (A–A)



Combined Footing (CF1)



Section (A–A)



NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details

Supervisor :

Eng. Sufian Al-Turk

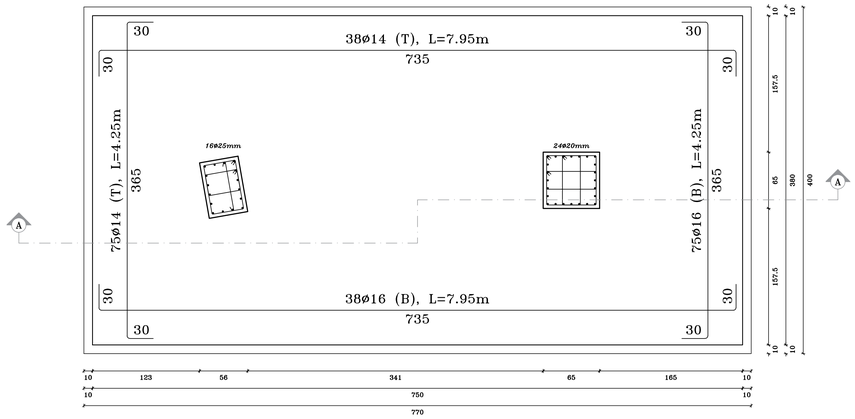
SCALE:

1/25

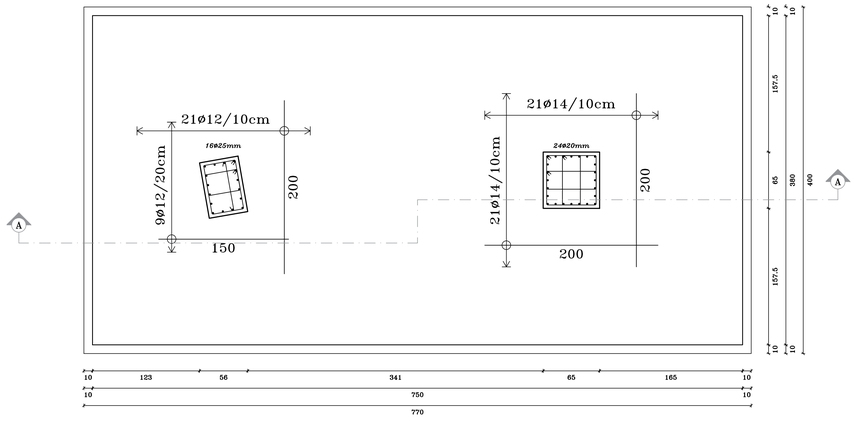
S10

Combined Footing (CF2)

Bottom & Top Bars



Add. Bottom Bars



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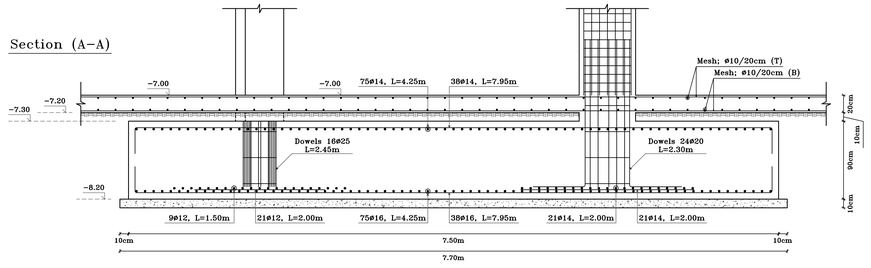
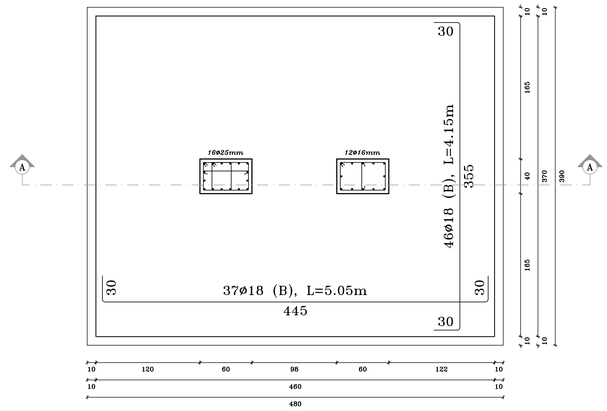


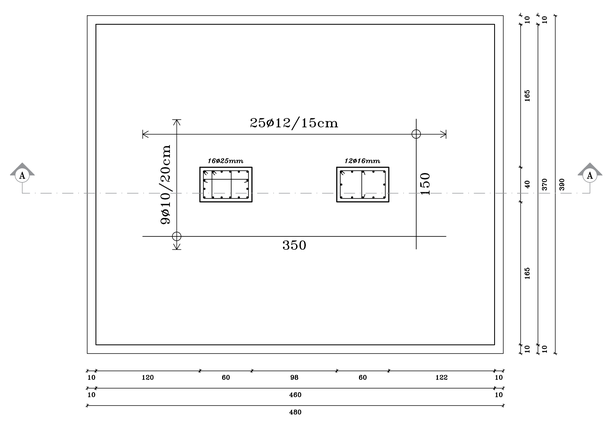
Combined Footing (CF3)

Bottom Bars



ø16@15cm T

Add. Bottom Bars



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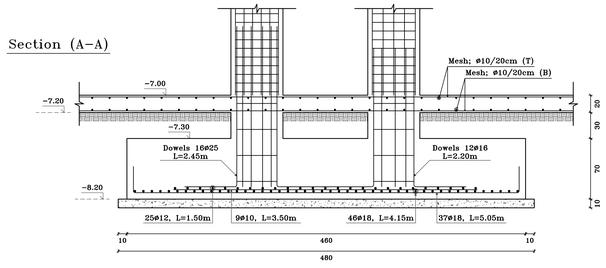


NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details

Supervisor :

Eng. Sufian Al-Turk

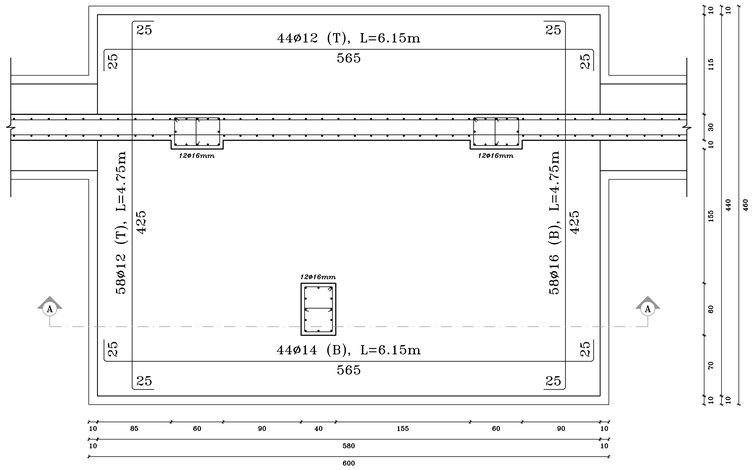
SCALE:

1/25

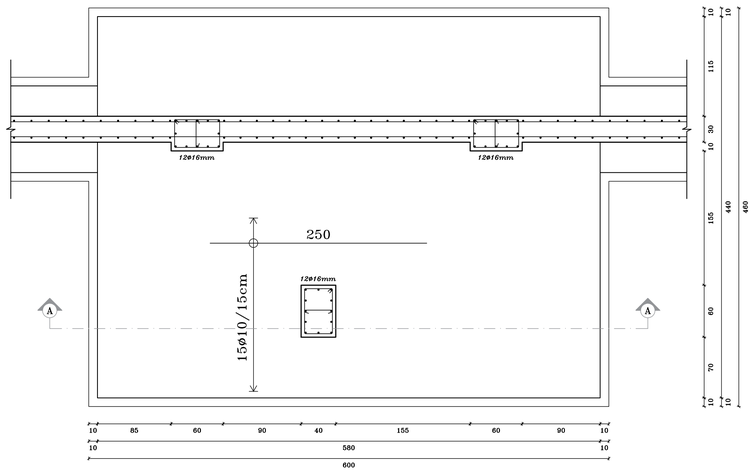
S11

Mat Footing (MF1)

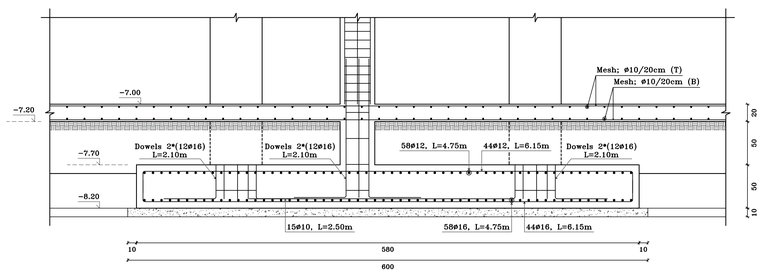
Bottom & Top Bars



Add. Bottom Bars

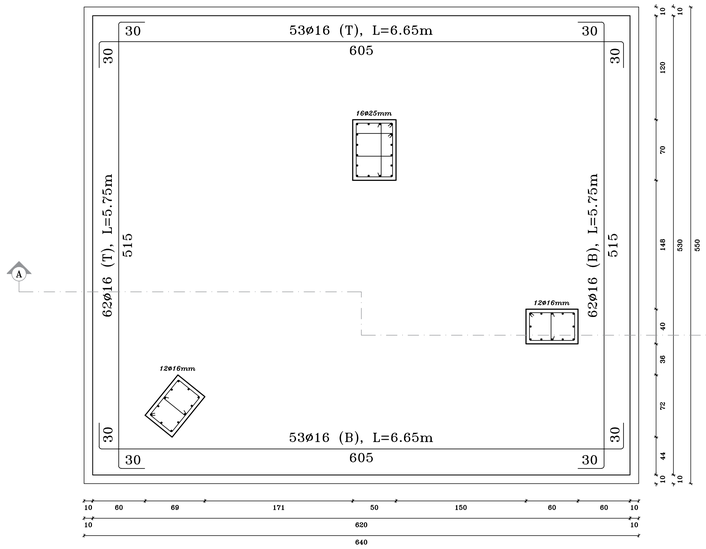


Section (A-A)

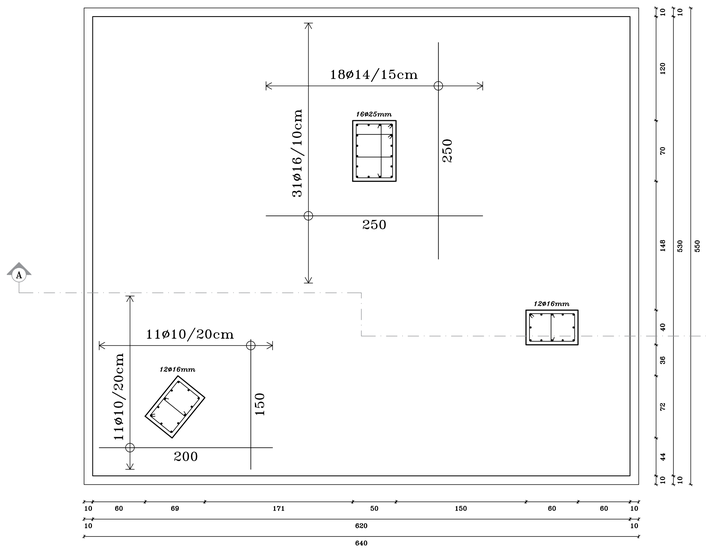


Mat Footing (MF2)

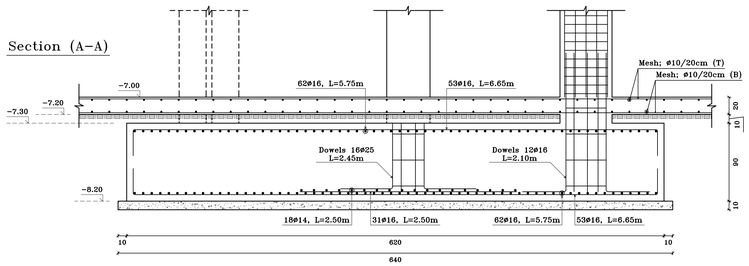
Bottom & Top Bars



Add. Bottom Bars



Section (A-A)



NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details

Supervisor :

Eng. Sufian Al-Turk

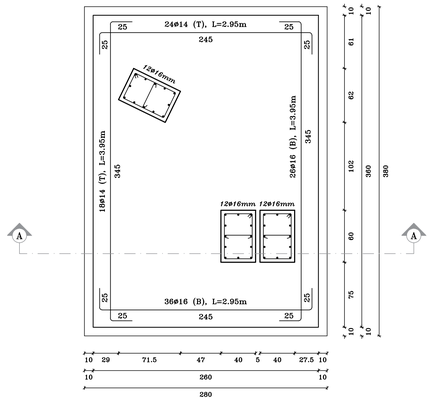
SCALE:

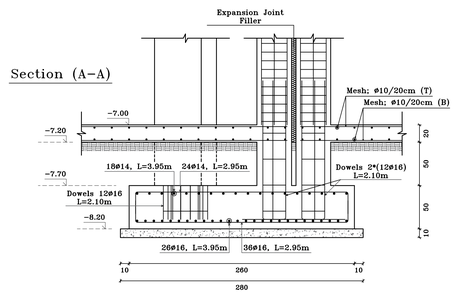
1/25

S12

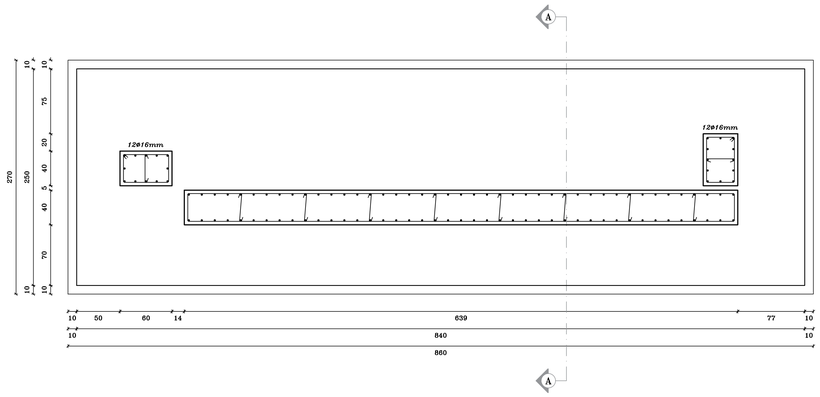
Mat Footing (MF3)

Bottom & Top Bars

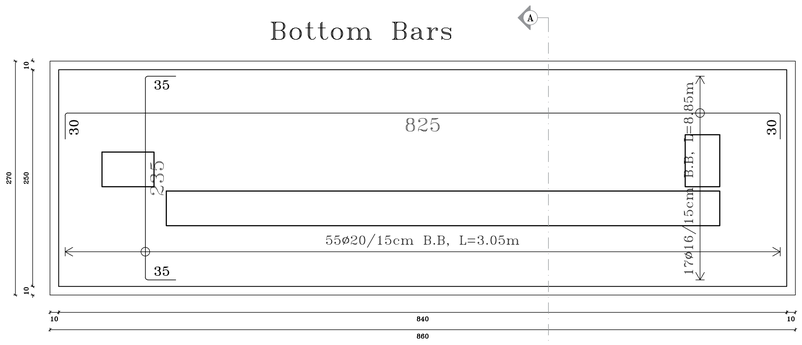


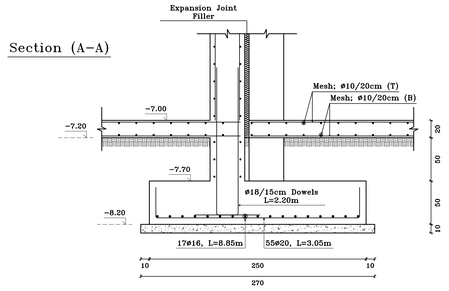


Mat Footing (MF4)



Bottom Bars





NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details

Supervisor :

Eng. Sufian Al-Turk

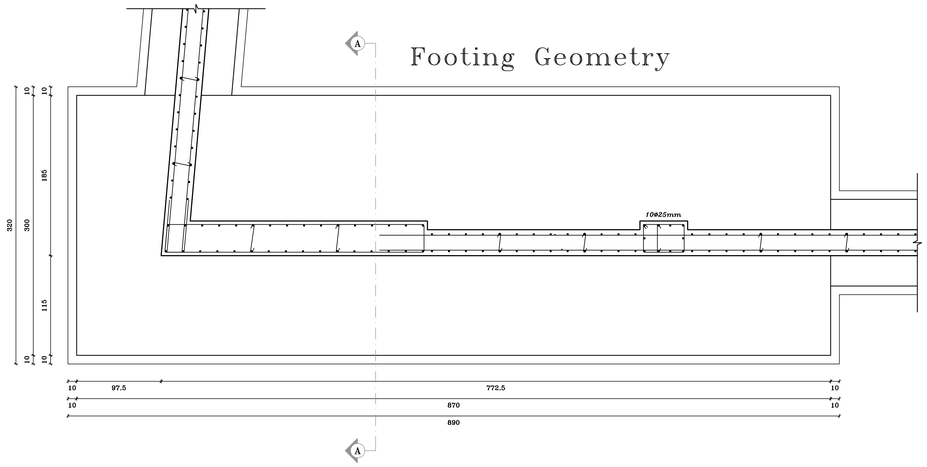
SCALE:

1/25

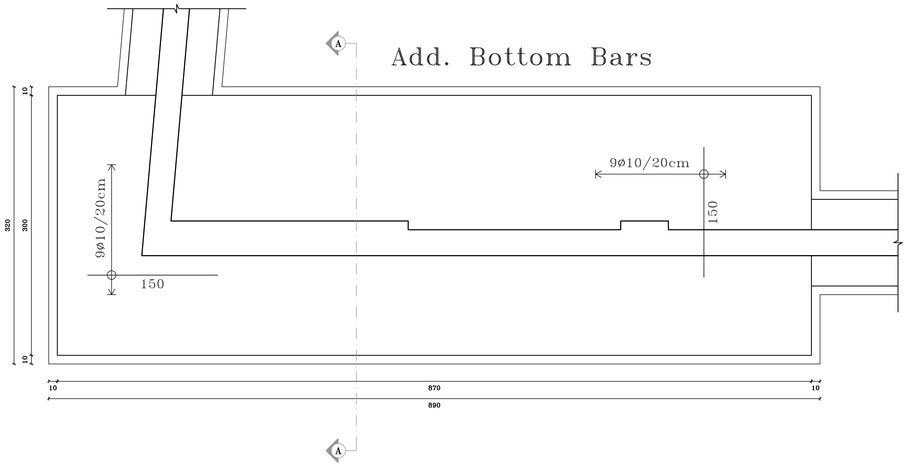
S13

Mat Footing (MF5)

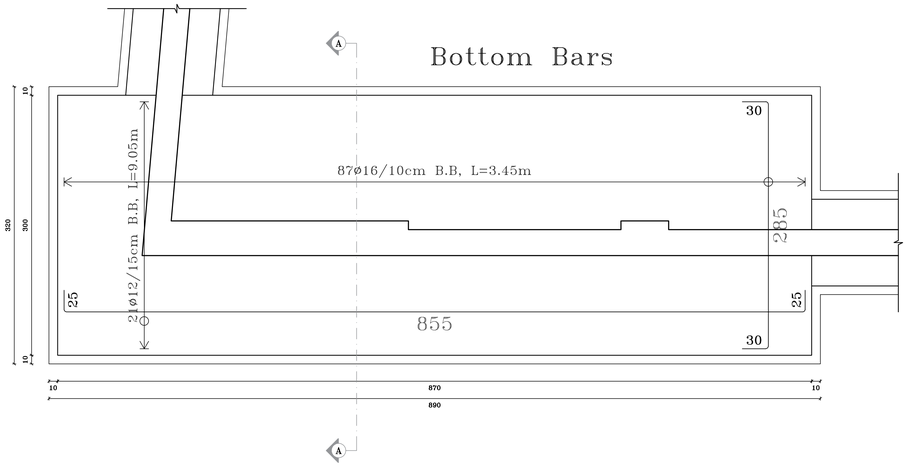
Footing Geometry



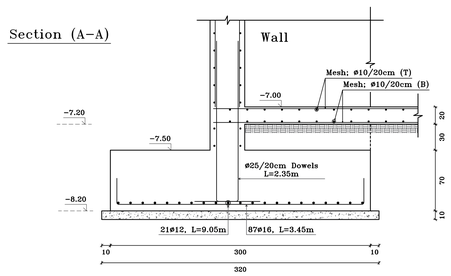
Add. Bottom Bars



Bottom Bars



Section (A-A)



N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details

Supervisor :

Eng. Sufian Al-Turk

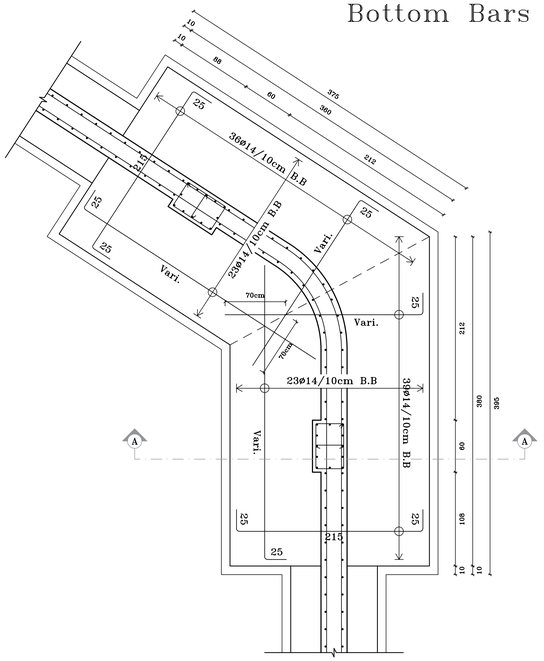
SCALE:

1/25

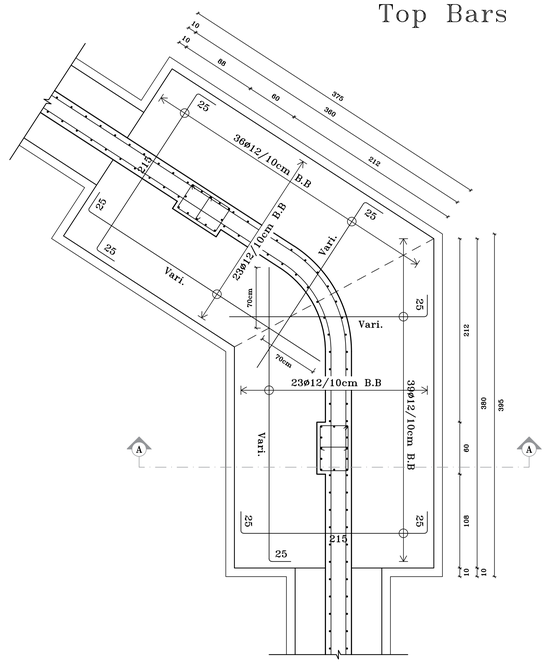
S14

Mat Footing (MF6)

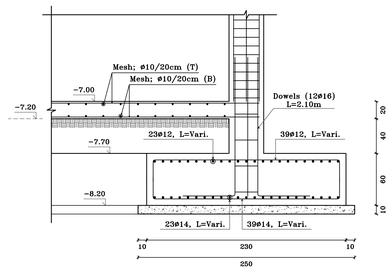
Bottom Bars



Top Bars



Section (A-A)



NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details

Supervisor :

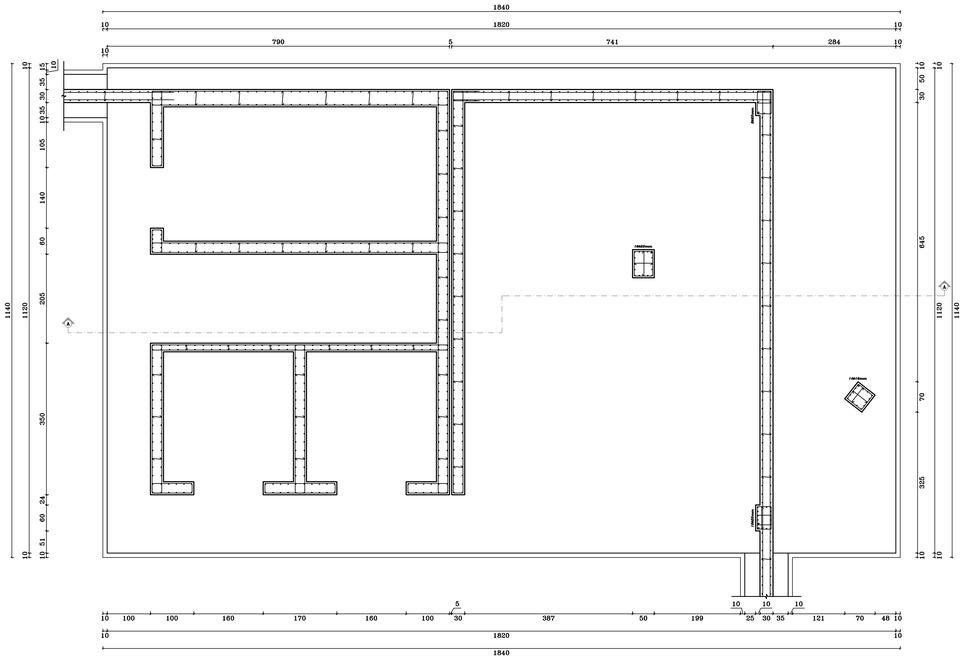
Eng. Sufian Al-Turk

SCALE:

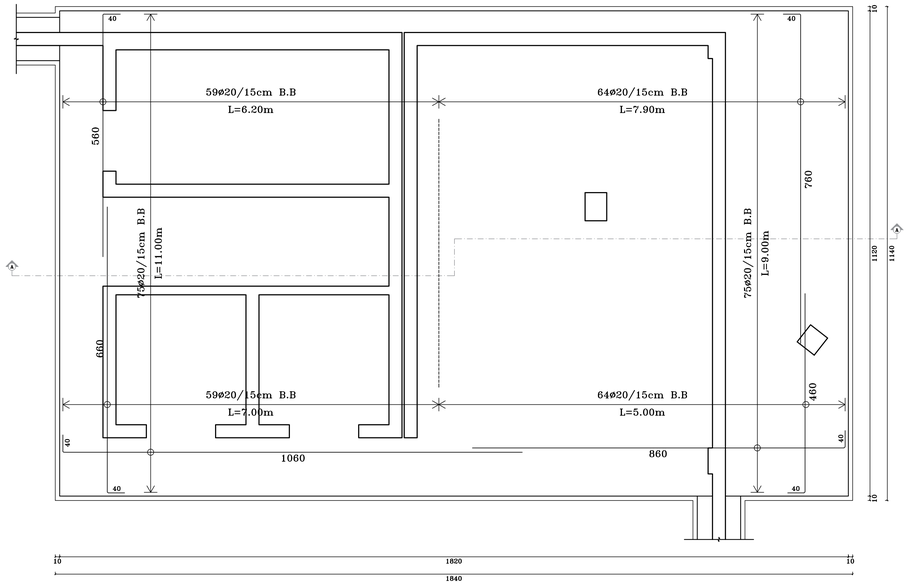
1/25

S15

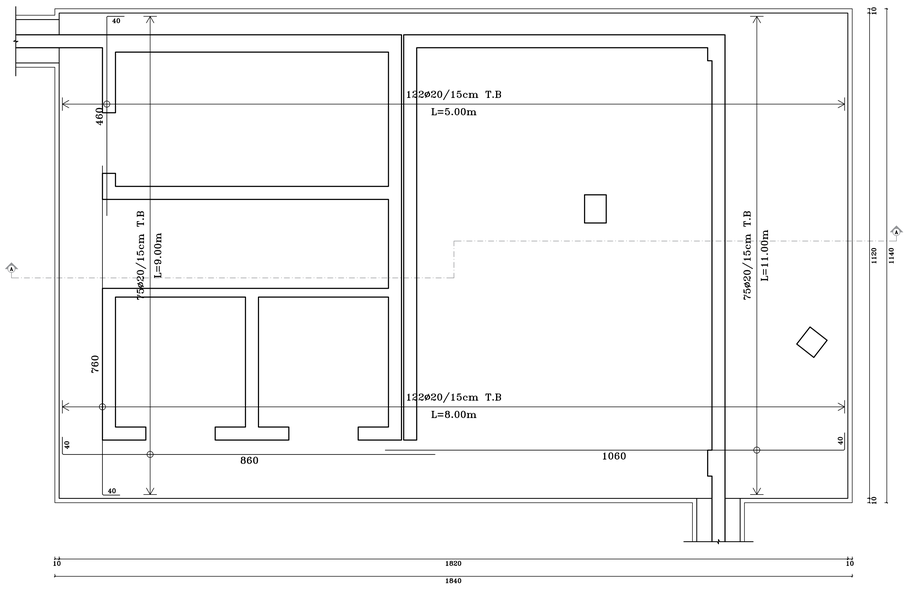
Mat Footing (MF7)



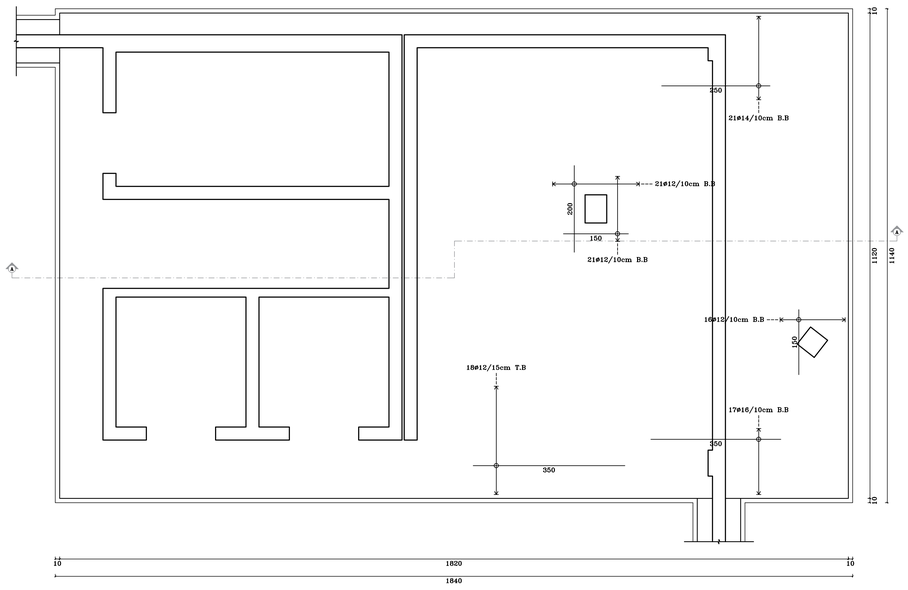
Bottom Bars

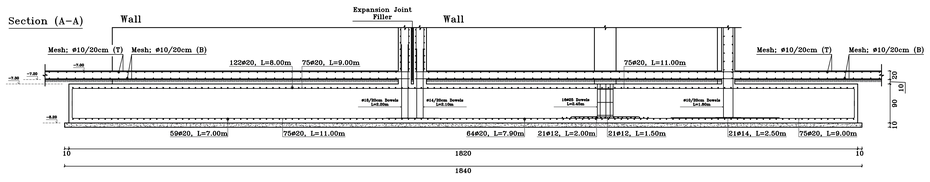


Top Bars



Additional Bottom & Top Bars





N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details

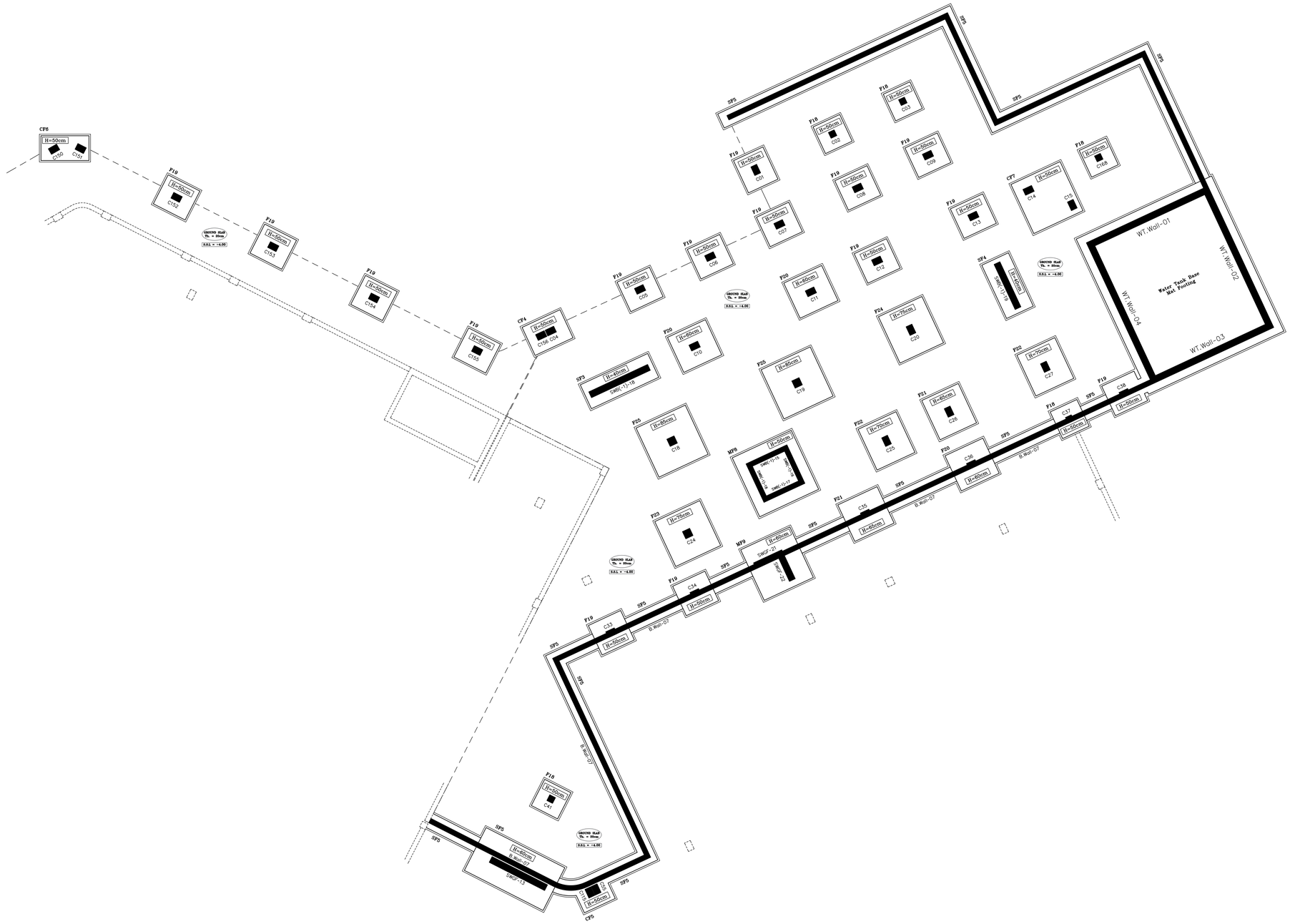
Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/50

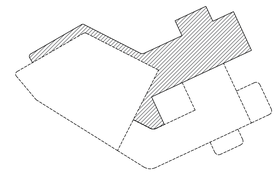
S16



NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details -5.20m Level

Supervisor :

Eng. Sufian Al-Turk

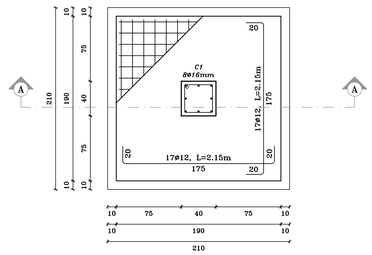
SCALE:

1/100

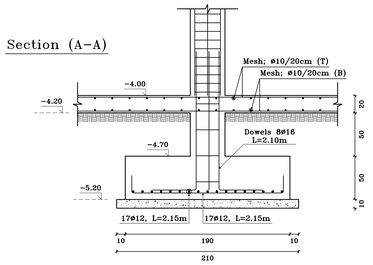
S17

Footing (F18)

C2 , C3 , C37 , C41
C168

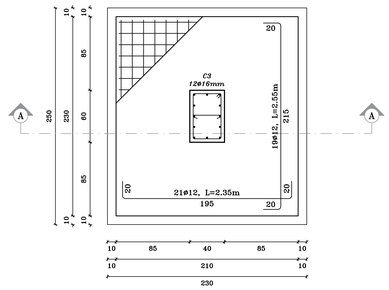


Section (A–A)

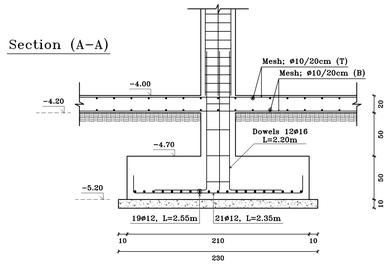


Footing (F19)

C1 , C5 , C6 , C7 , C8 , C9 , C12
C13 , C33 , C34 , C38 , C152
C153 , C154 , C155

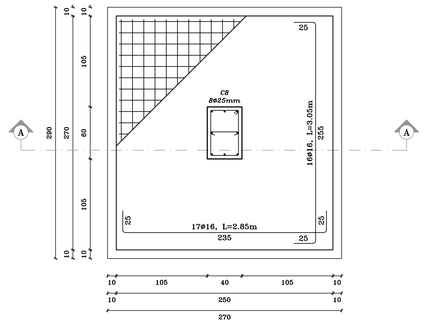


Section (A–A)



Footing (F20)

C10 , C11 , C36



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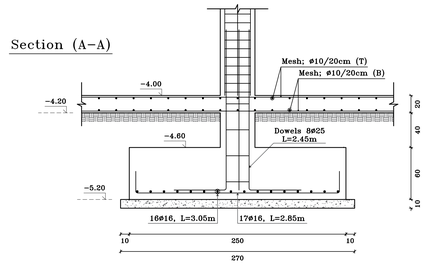
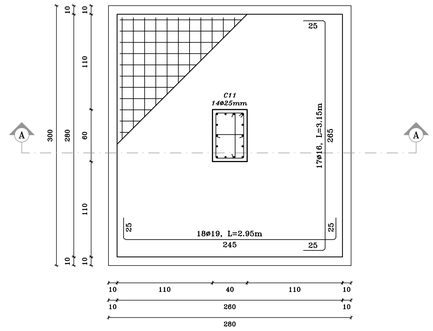


Footing (F21)

C26 , C35



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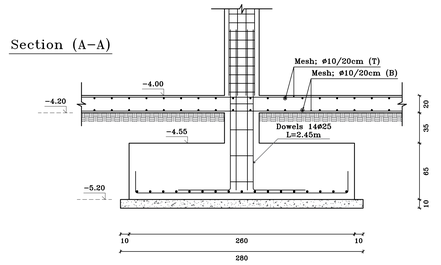
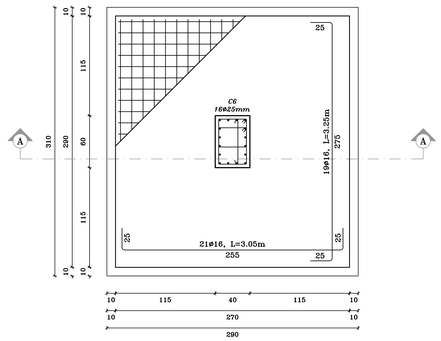


Footing (F22)

C25 , C27



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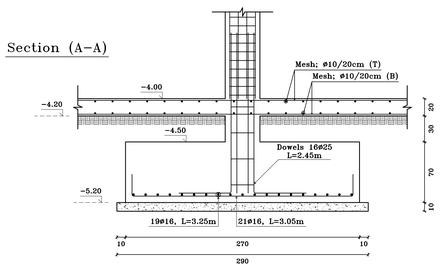
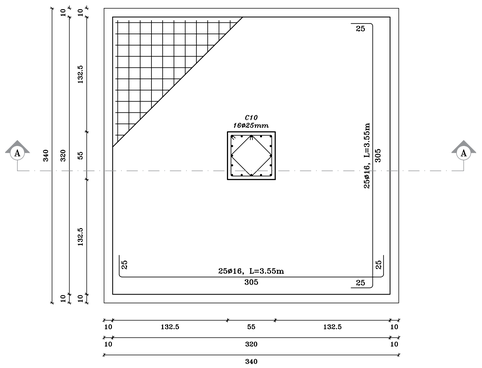


Footing (F23)

C24



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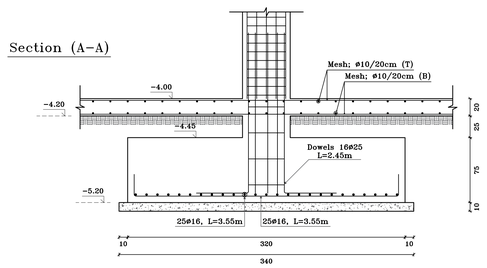
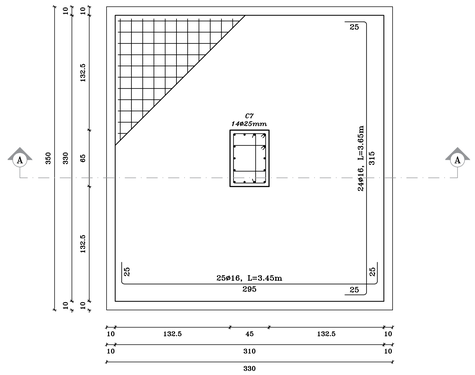


Footing (F24)

C20



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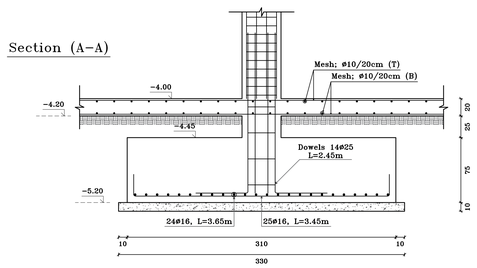


N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details

Supervisor :

Eng. Sufian Al-Turk

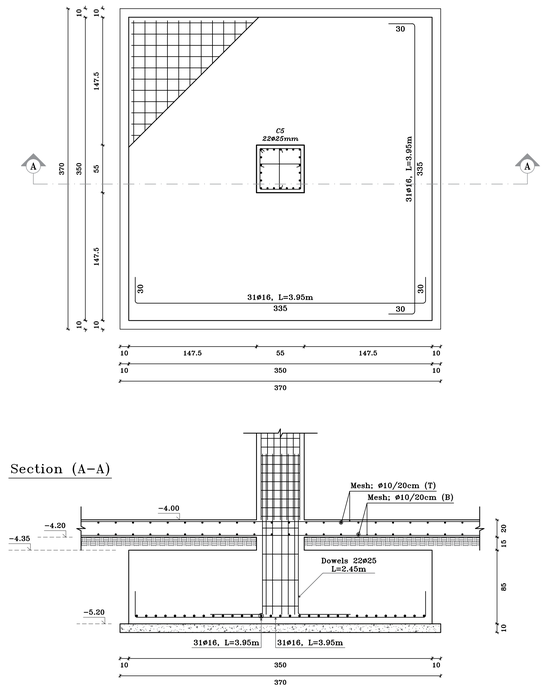
SCALE:

1/25

S18

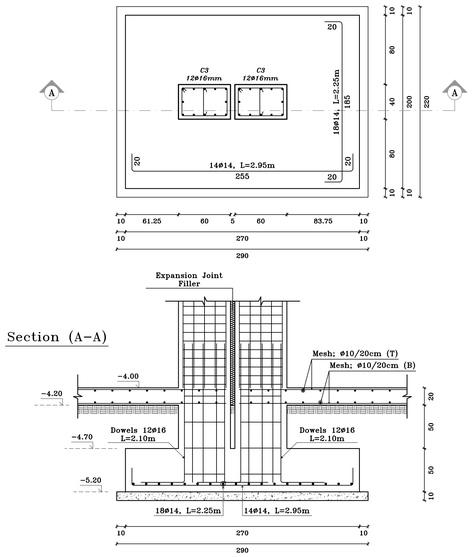
Footing (F25)

C18 , C19



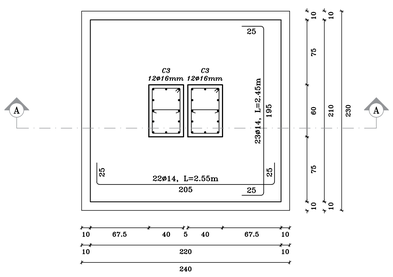
Combined Footing (CF4)

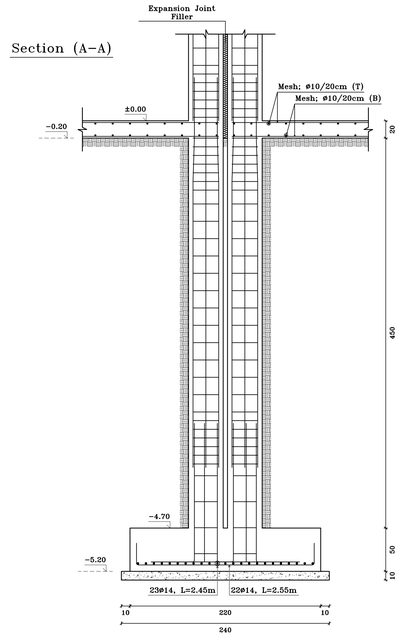
Bottom Bars

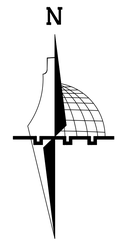


Combined Footing (CF5)

Bottom Bars







NOTES:

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Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

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Eng. Sufian Al-Turk

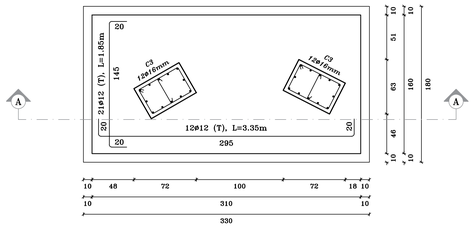
SCALE:

1/25

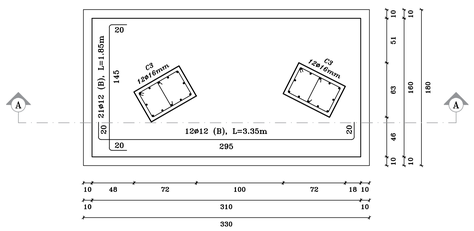
S19

Combined Footing (CF6)

Top Bars



Bottom Bars



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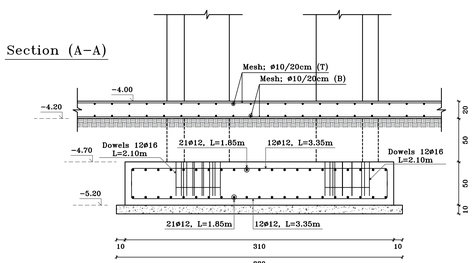
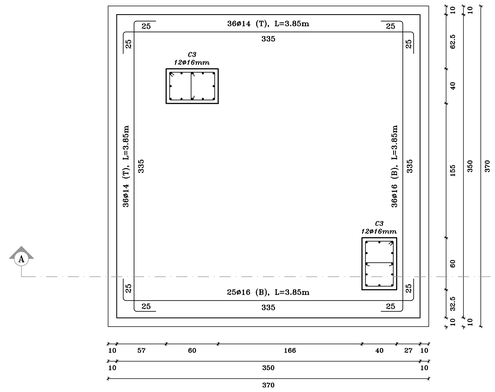


Combined Footing (CF7)

Bottom & Top Bars



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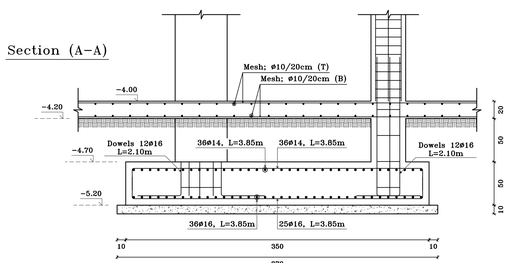

NOTES:

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Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

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NAJI SAID
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Drawing Title :

Footings Details

Supervisor :

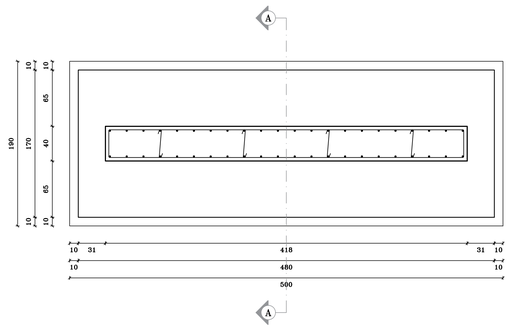
Eng. Sufian Al-Turk

SCALE:

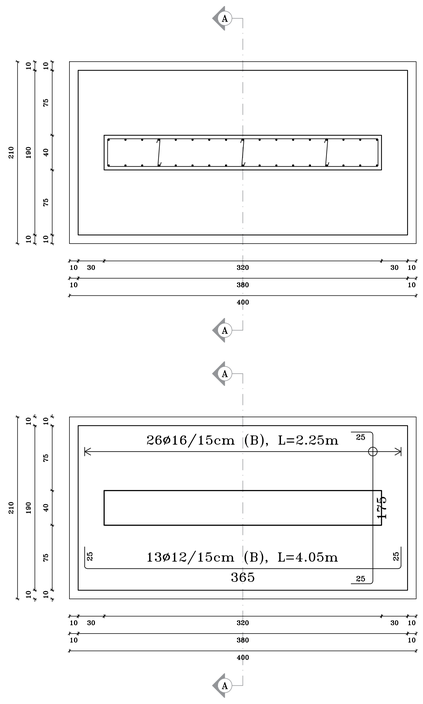
1/25

S20

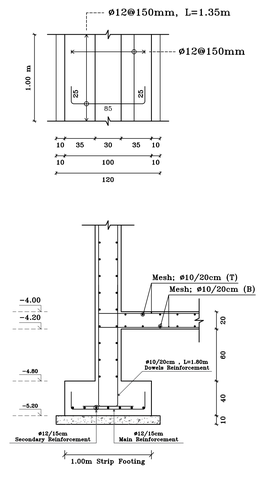
Strip Footing (SF3)



Strip Footing (SF4)



Strip Footing (SF5)



N

NOTES:

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Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
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Drawing Title :

Footings Details

Supervisor :

Eng. Sufian Al-Turk

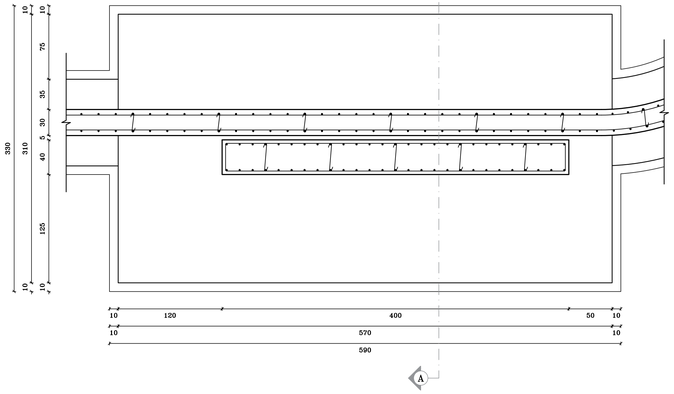
SCALE:

1/25

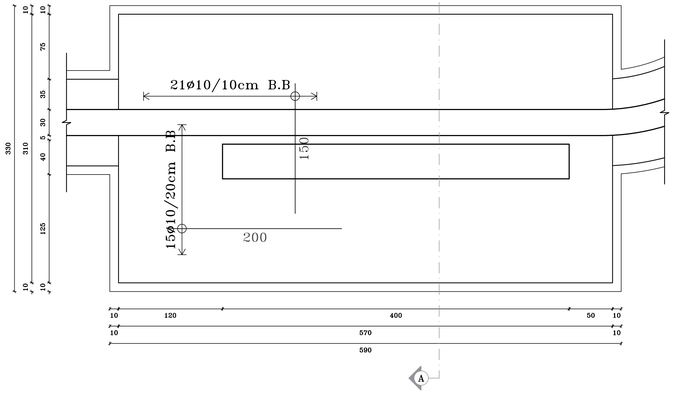
S21

Strip Footing (SF6)

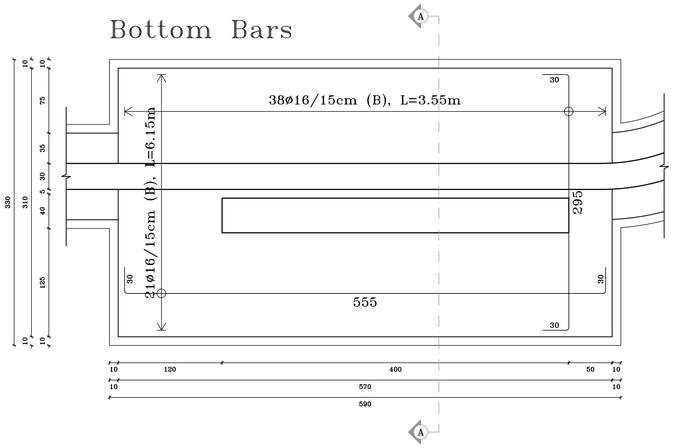
Footing Geometry



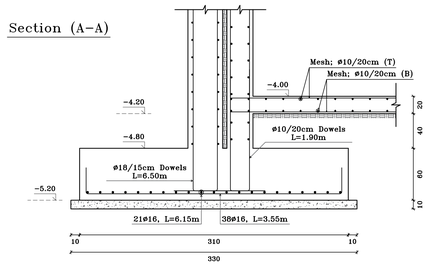
Add. Bottom Bars



Bottom Bars



Section (A-A)



NOTES:

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All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details

Supervisor :

Eng. Sufian Al-Turk

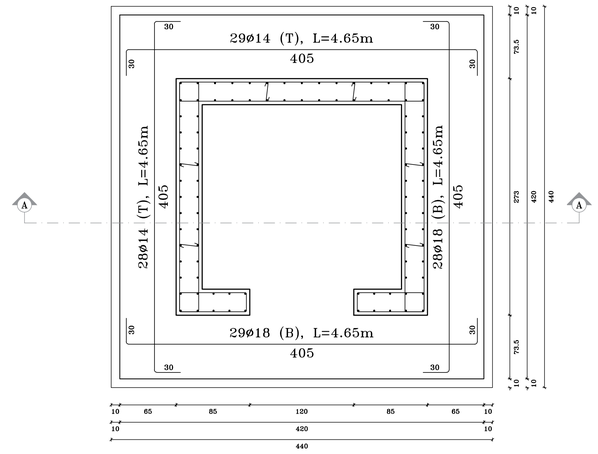
SCALE:

1/25

S22

Mat Footing (MF8)

Bottom & Top Bars



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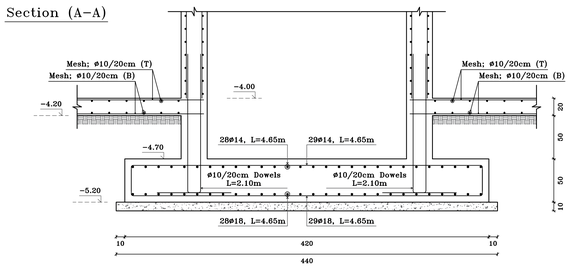
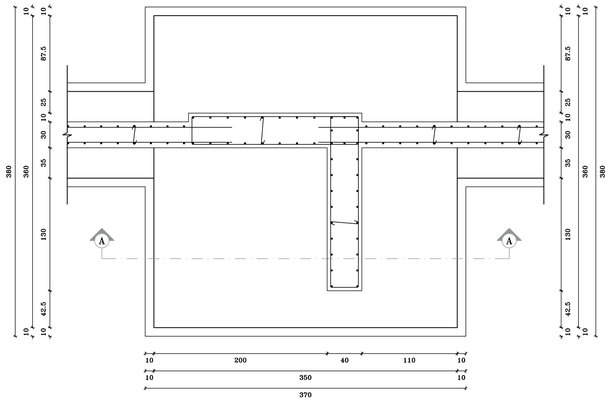
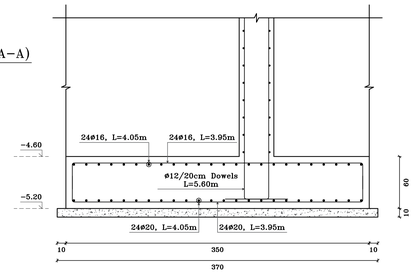


Mat Footing (MF9)



Bottom & Top Bars

Section (A–A)



NOTES:

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All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details

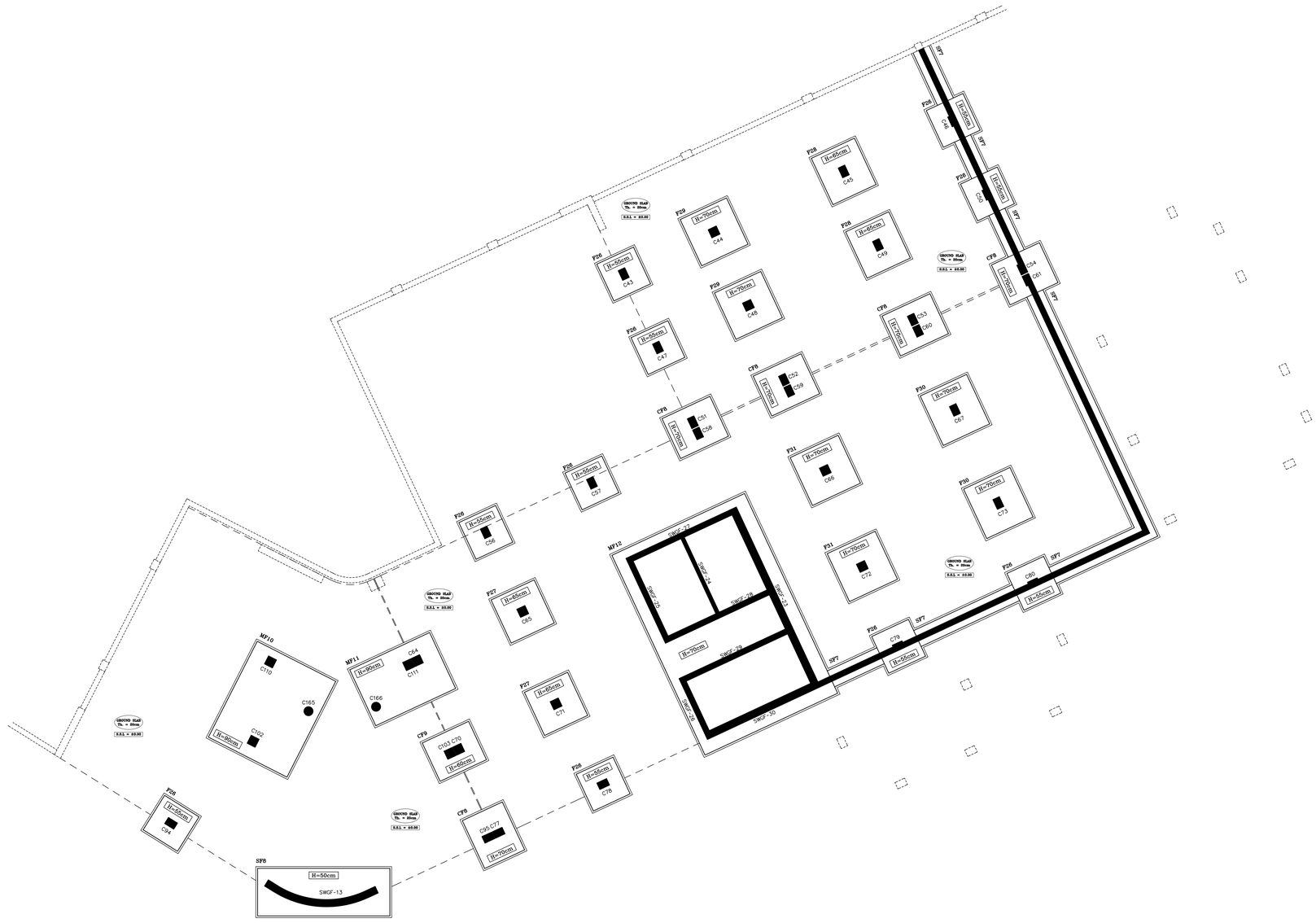
Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/25

S23



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details -1.20m Level

Supervisor :

Eng. Sufian Al-Turk

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

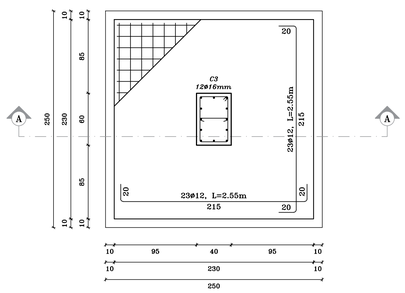
SCALE:

1/100

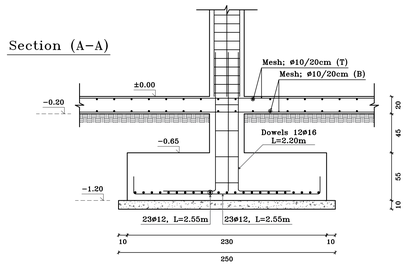
S24

Footing (F26)

C43 , C46 , C47 , C50
C56 , C57 , C78 , C79
C80 , C94

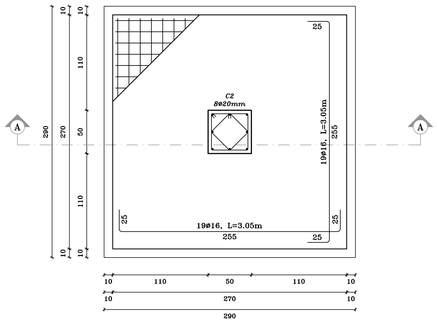


Section (A-A)

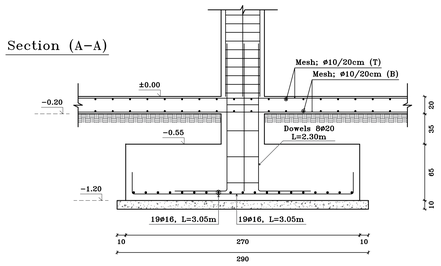


Footing (F27)

C65 , C71

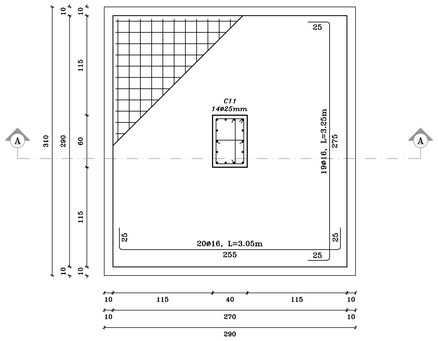


Section (A-A)

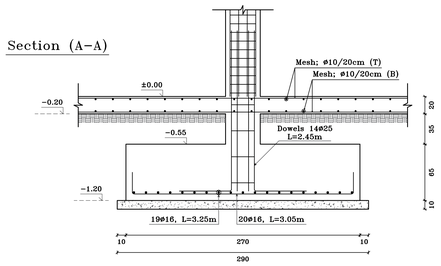


Footing (F28)

C45 , C49

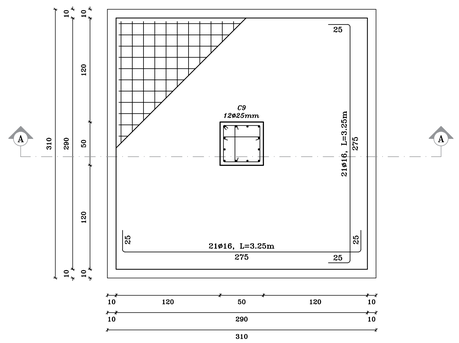


Section (A-A)

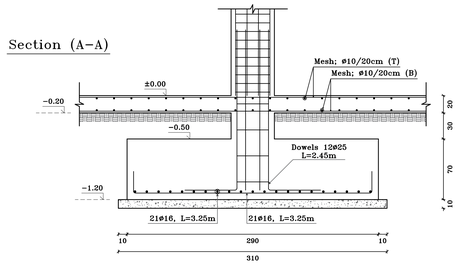


Footing (F29)

C44 , C48

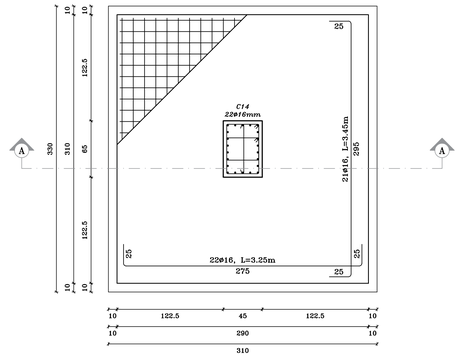


Section (A-A)



Footing (F30)

C67 , C73



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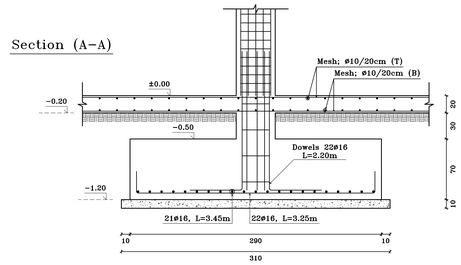
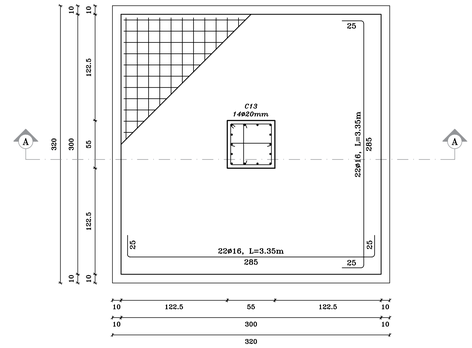


Footing (F31)

C66 , C72



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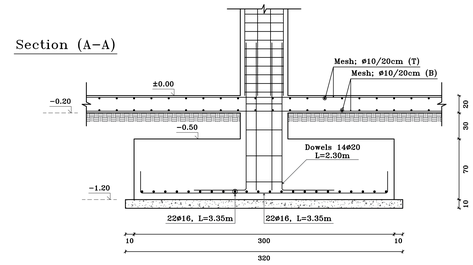

N

NOTES:

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All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details

Supervisor :

Eng. Sufian Al-Turk

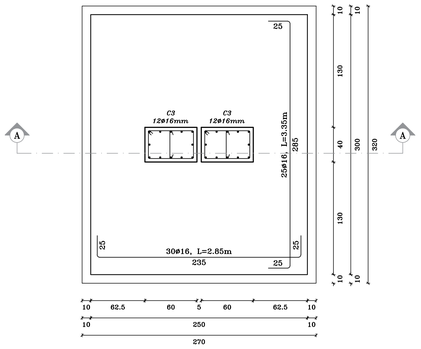
SCALE:

1/25

S25

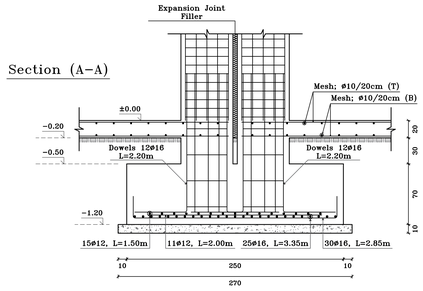
Combined Footing (CF8)

Bottom Bars



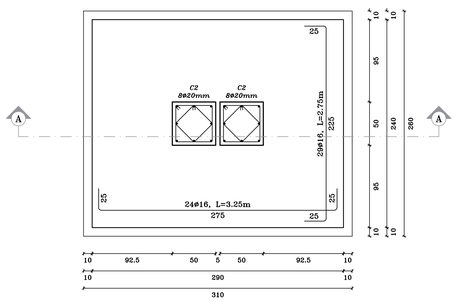
Add. Bottom Bars

Section (A–A)

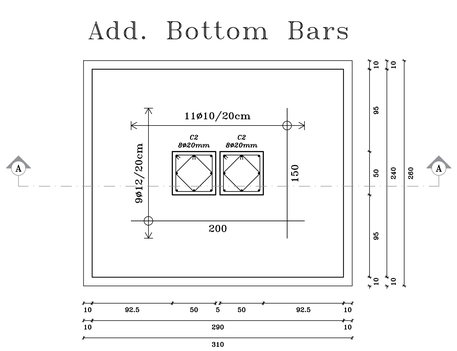


Combined Footing (CF9)

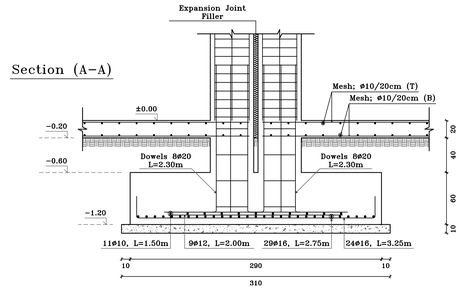
Bottom Bars



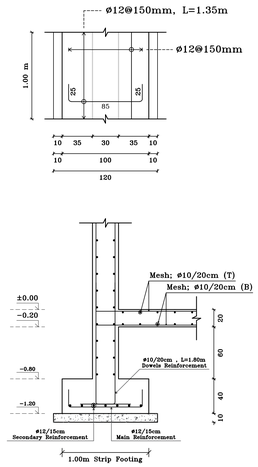
Add. Bottom Bars



Section (A–A)



Strip Footing (SF7)



NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details

Supervisor :

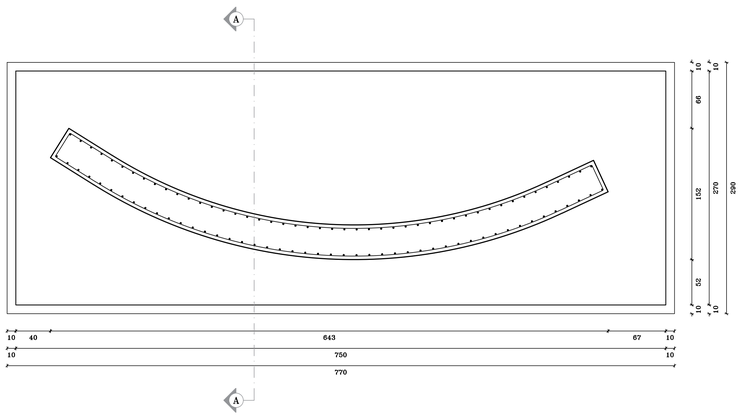
Eng. Sufian Al-Turk

SCALE:

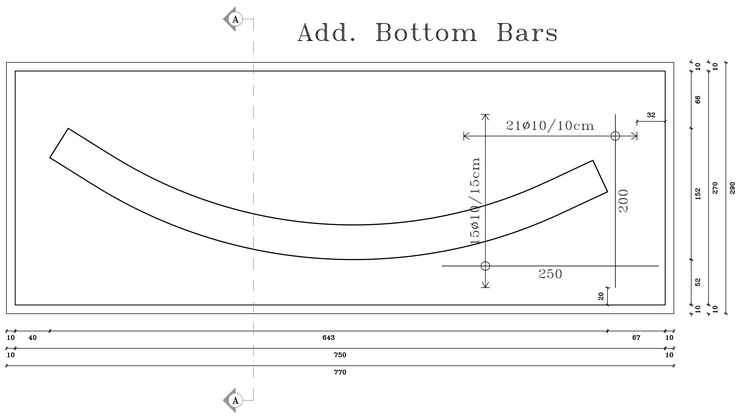
1/25

S26

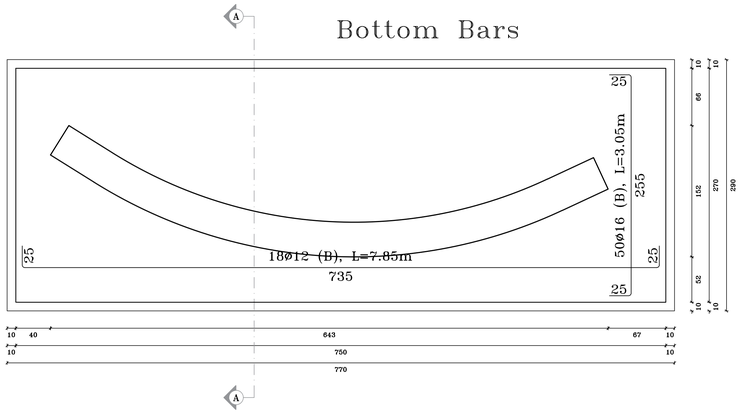
Strip Footing (SF8)



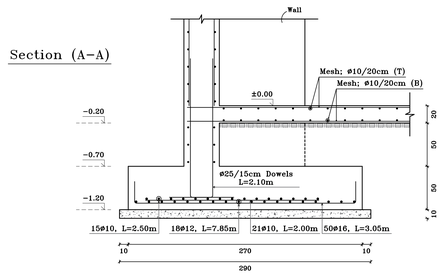
Add. Bottom Bars



Bottom Bars



Section (A-A)



N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details

Supervisor :

Eng. Sufian Al-Turk

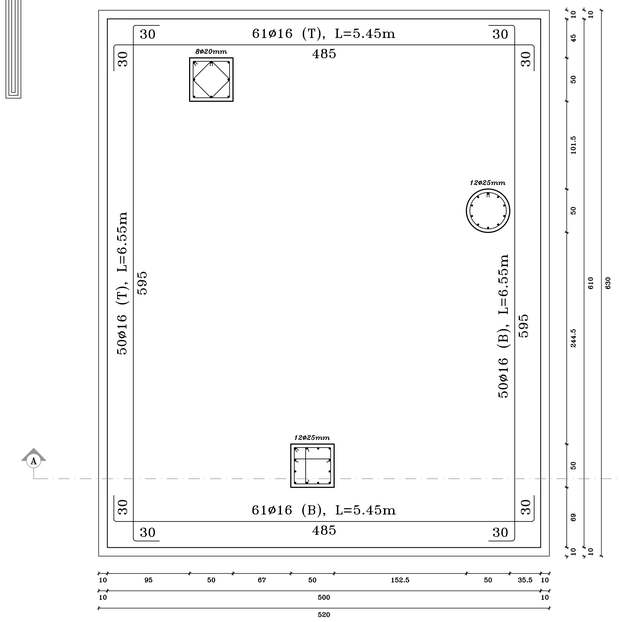
SCALE:

1/25

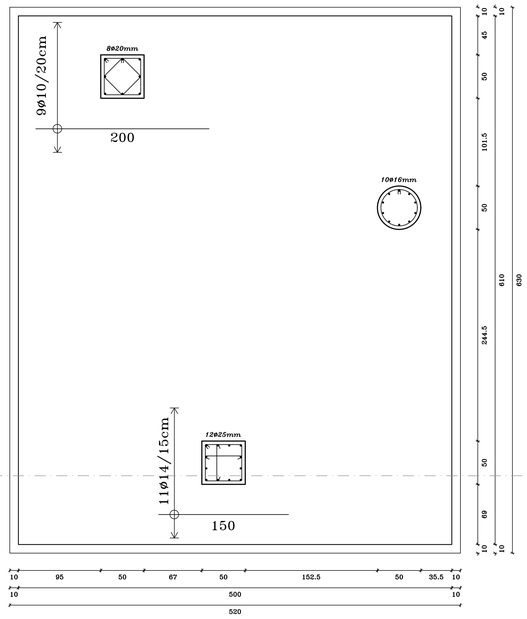
S27

Mat Footing (MF10)

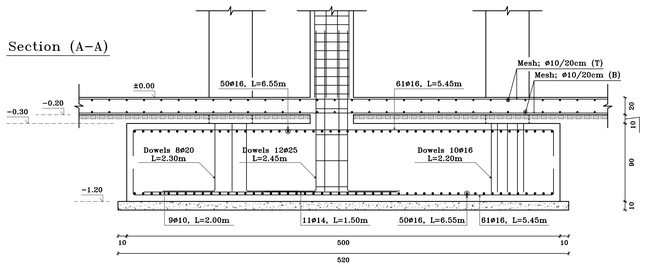
Bottom & Top Bars



Add. Bottom Bars

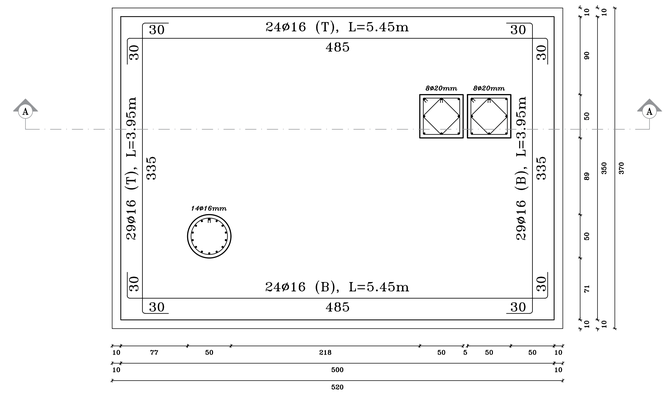


Section (A–A)

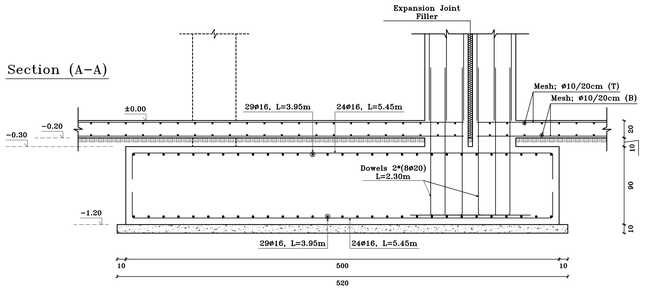


Mat Footing (MF11)

Bottom & Top Bars



Section (A–A)



NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details

Supervisor :

Eng. Sufian Al-Turk

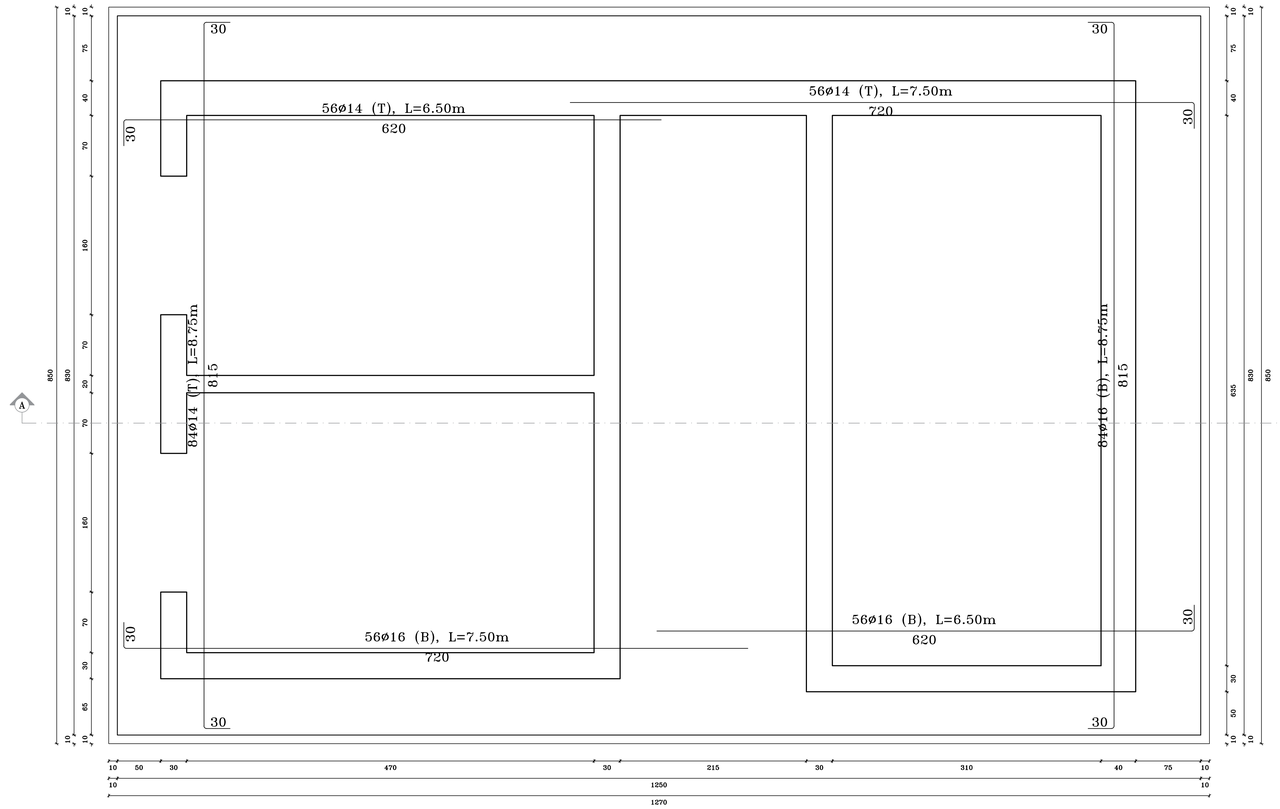
SCALE:

1/25

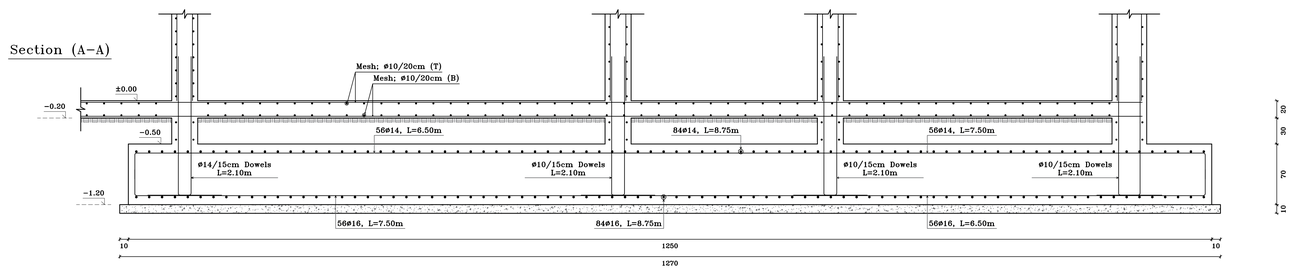
S28

Mat Footing (MF12)

Bottom & Top Bars



Section (A-A)



N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details

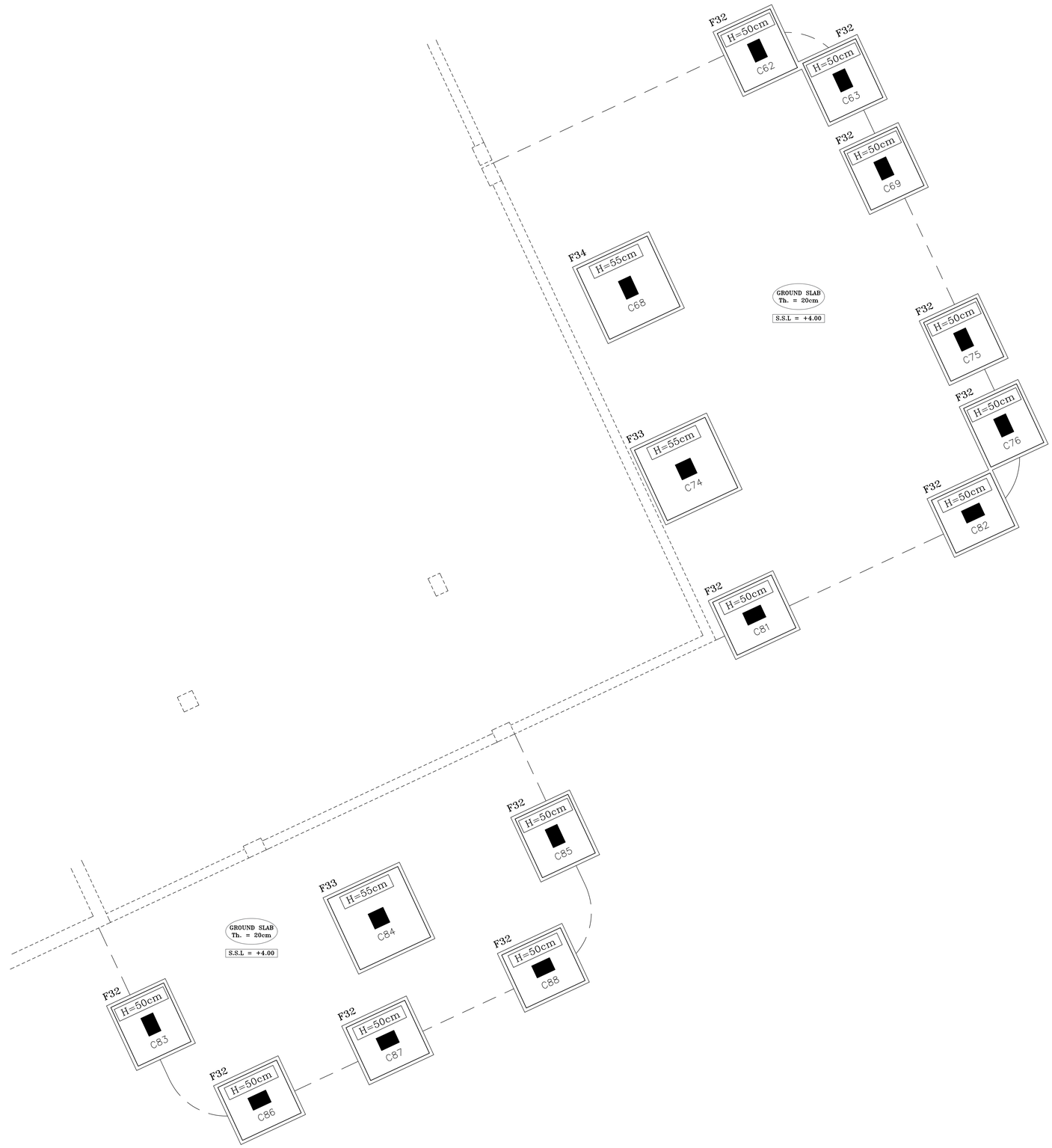
Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/25

S29

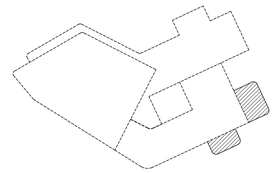


N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details
+2.80m Level

Supervisor :

Eng. Sufian Al-Turk

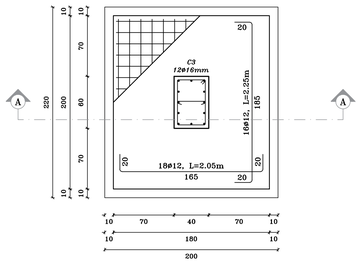
SCALE:

1/100

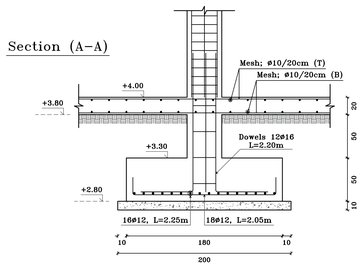
S30

Footing (F32)

C62 , C63 , C69 , C75
C76 , C81 , C82 , C83
C85 , C86 , C87 , C88

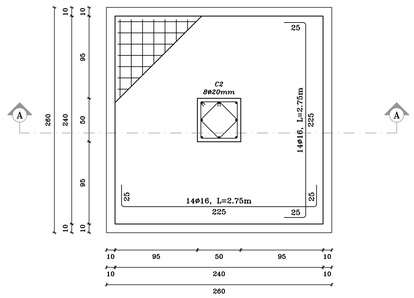


Section (A–A)

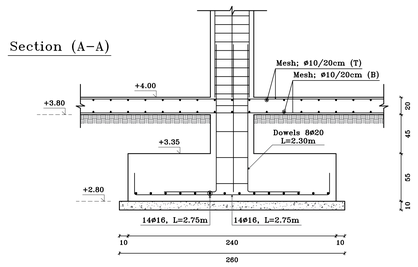


Footing (F33)

C74 , C84

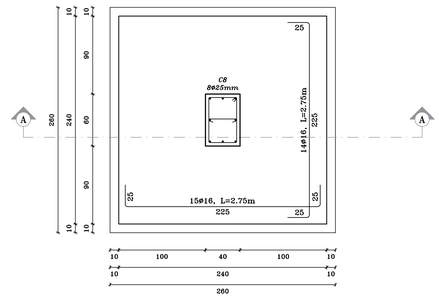


Section (A–A)

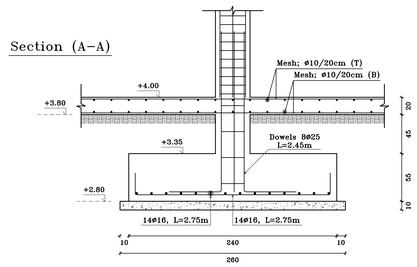


Footing (F34)

C68



Section (A–A)



N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Footings Details

Supervisor :

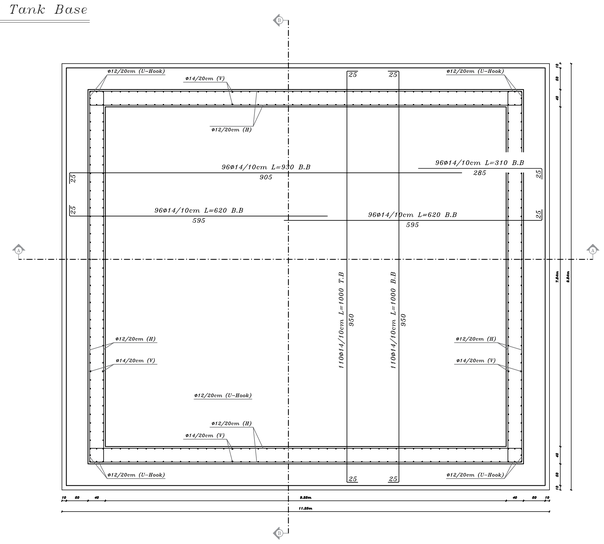
Eng. Sufian Al-Turk

SCALE:

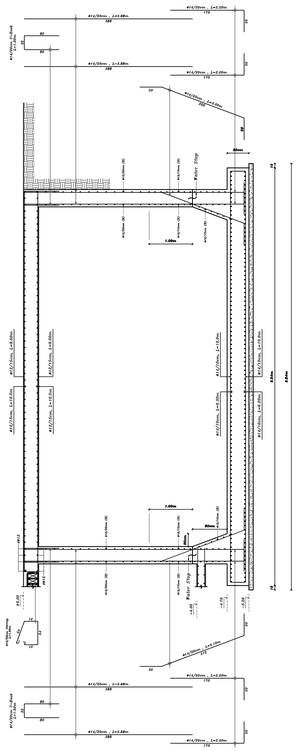
1/25

S31

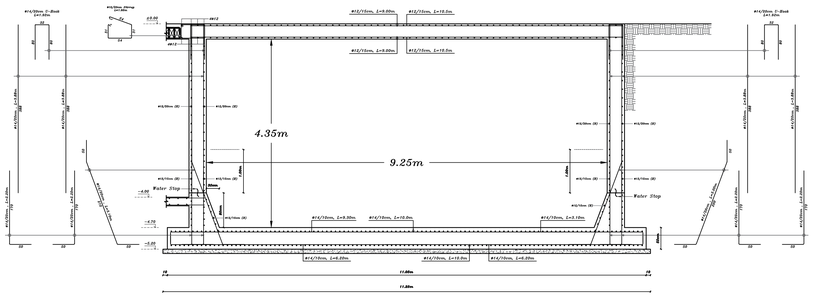
Water Tank Base



Section (B-B)



Section (A-A)



N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Water Tank Details

Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/50

S32

COLUMNS / FLOOR	C31 , C32 , C124 , C137 , C144 C145	C16	C30 , C126	C125	C127	C17	C22
Basement (-2)	12Ø16mm	16Ø25mm	16Ø25mm	22Ø16mm	8Ø25mm	8Ø25mm	16Ø25mm
Basement (-1)	12Ø16mm	16Ø25mm	16Ø25mm	22Ø16mm	12Ø16mm	8Ø25mm	16Ø25mm
Ground Floor	12Ø16mm	16Ø25mm	12Ø16mm	12Ø16mm	12Ø16mm	12Ø16mm	16Ø25mm
First Floor	12Ø16mm	14Ø16mm	12Ø16mm	12Ø16mm	12Ø16mm	12Ø16mm	12Ø16mm
Second Floor	12Ø16mm	14Ø16mm	12Ø16mm	12Ø16mm	12Ø16mm	12Ø16mm	12Ø16mm
Third Floor	12Ø16mm	14Ø16mm	12Ø16mm	12Ø16mm	12Ø16mm	12Ø16mm	12Ø16mm

COLUMNS / FLOOR	C129	C134	C135	C92 , C93 , C113 , C116 , C117 C118 , C119 , C123 , C139 , C140 C141 , C142 , C143	C99 , C107	C101 , C109	C100 , C108
Basement (-2)	16Ø25mm	22Ø25mm	20Ø25mm	12Ø16mm	16Ø25mm	10Ø25mm	16Ø25mm
Basement (-1)	16Ø25mm	22Ø25mm	20Ø25mm Sep. Dowels - 18Ø25mm	12Ø16mm	16Ø25mm	10Ø25mm	16Ø25mm
Ground Floor	16Ø25mm	22Ø16mm	18Ø25mm	12Ø16mm	12Ø16mm	10Ø25mm	8Ø20mm
First Floor	12Ø16mm	22Ø16mm	18Ø25mm	12Ø16mm	12Ø16mm	8Ø20mm	8Ø20mm
Second Floor	12Ø16mm	12Ø16mm	8Ø20mm	12Ø16mm	12Ø16mm	8Ø20mm	8Ø20mm
Third Floor	12Ø16mm	12Ø16mm	8Ø20mm	----	----	----	----

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Columns Details

Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/100

S33

COLUMNS / FLOOR	C114	C122	C131	C132	C133	C90 , C91 , C106 C128 , C136	C97
Basement (-2)	8@16mm	14@25mm	16@25mm	24@20mm	26@20mm	12@16mm	14@25mm
Basement (-1)	8@16mm	12@16mm	16@25mm	24@20mm	26@20mm	12@16mm	12@16mm
Ground Floor	8@16mm	12@16mm	16@25mm	24@20mm	26@20mm	12@16mm	12@16mm
First Floor	8@16mm	12@16mm	12@16mm	8@20mm	8@20mm	12@16mm	12@16mm
Second Floor	8@16mm	12@16mm	12@16mm	8@20mm	8@20mm	----	----
Third Floor	----	----	----	----	----	----	----

Sep. Dowels = 8@20mm

Sep. Dowels = 8@20mm

COLUMNS / FLOOR	C98	C120	C105 , C121	C130	C89 , C96 , C104 , C112	C167	C39 , C40 , C42 , C146 C147 , C148 , C149
Basement (-2)	16@25mm	8@25mm	16@25mm	24@20mm	12@16mm	10@25mm	12@16mm
Basement (-1)	16@25mm	12@16mm	12@16mm	24@20mm	12@16mm	10@16mm	12@16mm
Ground Floor	12@16mm	12@16mm	12@16mm	24@20mm	12@16mm	10@16mm	----
First Floor	12@16mm	12@16mm	12@16mm	8@20mm	----	----	----
Second Floor	----	----	----	----	----	----	----
Third Floor	----	----	----	----	----	----	----

Sep. Dowels = 8@20mm

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Columns Details

Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/100

S34

COLUMNS / FLOOR	C157 , C158 , C159 , C160 C161 , C162 , C163	C12 , C33 , C34	C10 , C11	C18	C19	C20	C25
Basement (-2)	12Ø16mm	----	----	----	----	----	----
Basement (-1)	----	12Ø16mm	8Ø25mm	22Ø25mm	22Ø25mm	14Ø25mm	16Ø25mm
Ground Floor	----	12Ø16mm	12Ø16mm	22Ø25mm	22Ø25mm	14Ø25mm	16Ø25mm
First Floor	----	12Ø16mm	12Ø16mm	8Ø20mm	22Ø25mm	14Ø25mm	12Ø16mm
Second Floor	----	12Ø16mm	12Ø16mm	8Ø20mm	8Ø20mm	12Ø16mm	12Ø16mm
Third Floor	----	12Ø16mm	12Ø16mm	8Ø20mm	8Ø20mm	12Ø16mm	12Ø16mm

COLUMNS / FLOOR	C23	C24	C26	C35 , C36	C13 , C14 , C15 , C21 , C38	C27	C37
Basement (-2)	----	----	----	----	----	----	----
Basement (-1)	14Ø16mm	16Ø25mm	14Ø25mm	14Ø25mm	12Ø16mm	16Ø25mm	8Ø16mm
Ground Floor	8Ø20mm	16Ø25mm	12Ø16mm	14Ø25mm	12Ø16mm	16Ø25mm	8Ø16mm
First Floor	8Ø20mm	8Ø20mm	12Ø16mm	12Ø16mm	12Ø16mm	12Ø16mm	8Ø16mm
Second Floor	8Ø20mm	8Ø20mm	12Ø16mm	12Ø16mm	12Ø16mm	12Ø16mm	8Ø16mm
Third Floor	8Ø20mm	8Ø20mm	12Ø16mm	12Ø16mm	----	----	----

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Columns Details

Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/100

S35

COLUMNS / FLOOR	C1 , C4 , C5 , C6 , C7 , C8 C9 , C150 , C151 , C152 C153 , C154 , C155 , C156	C2 , C3 , C41 , C168	C43 , C47 , C51 , C52 , C53	C44 , C48	C45 , C49	C28 , C29 , C55 , C56 , C57 C58 , C59 , C60 , C61 , C77 C78 , C79 , C80 , C94 , C95 C115
Basement (-2)	----	----	----	----	----	----
Basement (-1)	12ø16mm	8ø20mm	----	----	----	----
Ground Floor	----	----	12ø16mm	12ø25mm	14ø25mm	12ø16mm
First Floor	----	----	12ø16mm	8ø20mm	12ø16mm	12ø16mm
Second Floor	----	----	12ø16mm	8ø20mm	12ø16mm	12ø16mm
Third Floor	----	----	12ø16mm	8ø20mm	12ø16mm	----

COLUMNS / FLOOR	C64 , C65 , C70 , C71 , C103 C110 , C111	C66 , C72	C67 , C68 , C73	C102	C165	C166
Basement (-2)	----	----	----	----	----	----
Basement (-1)	----	----	----	----	----	----
Ground Floor	8ø20mm	14ø20mm	22ø16mm	12ø25mm	10ø16mm	14ø16mm
First Floor	8ø20mm	8ø20mm	22ø16mm	8ø20mm	10ø16mm	10ø16mm
Second Floor	8ø20mm	8ø20mm	12ø16mm	8ø20mm	10ø16mm	10ø16mm
Third Floor	----	----	----	----	----	----

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Columns Details

Supervisor :

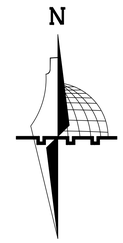
Eng. Sufian Al-Turk

SCALE:

1/100

S36

COLUMNS / FLOOR	C46 , C50 , C54	C68	C74 , C84	C62 , C63 , C69 , C75 , C76 C81 , C82 , C83 , C85 , C86 C87 , C88	C164
Basement (-2)	----	----	----	----	----
Basement (-1)	----	----	----	----	----
Ground Floor		----	----	----	----
First Floor					----
Second Floor	----				
Third Floor	----	----	----	----	----



NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Columns Details

Supervisor :

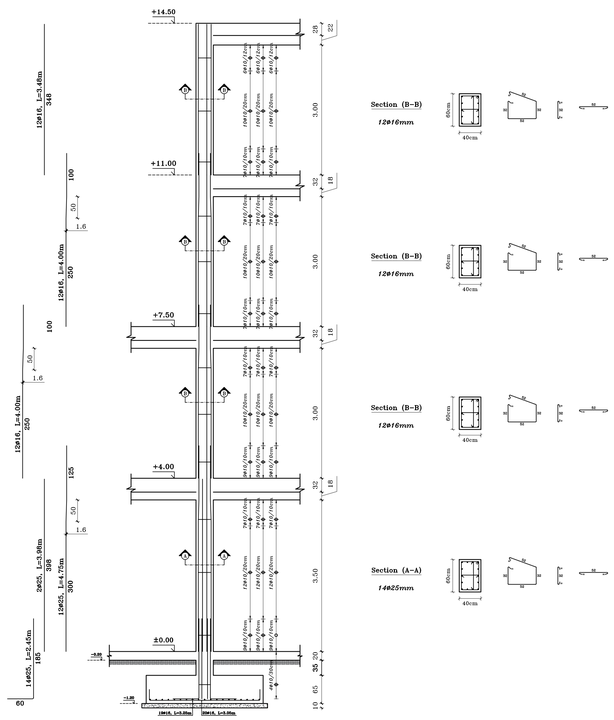
Eng. Sufian Al-Turk

SCALE:

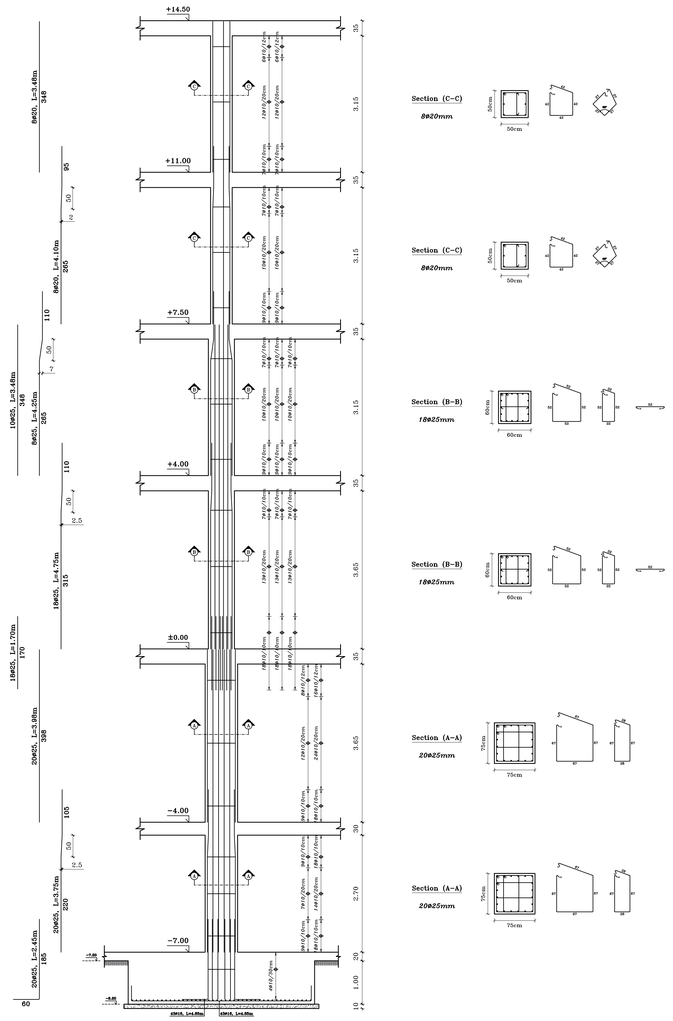
1/100

S37

Column (C45)



Column (C135)



Palestine Polytechnic University
رابطة الجامعين - الخليل
جامعة بوليتكنك فلسطين

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Columns Details

Supervisor :

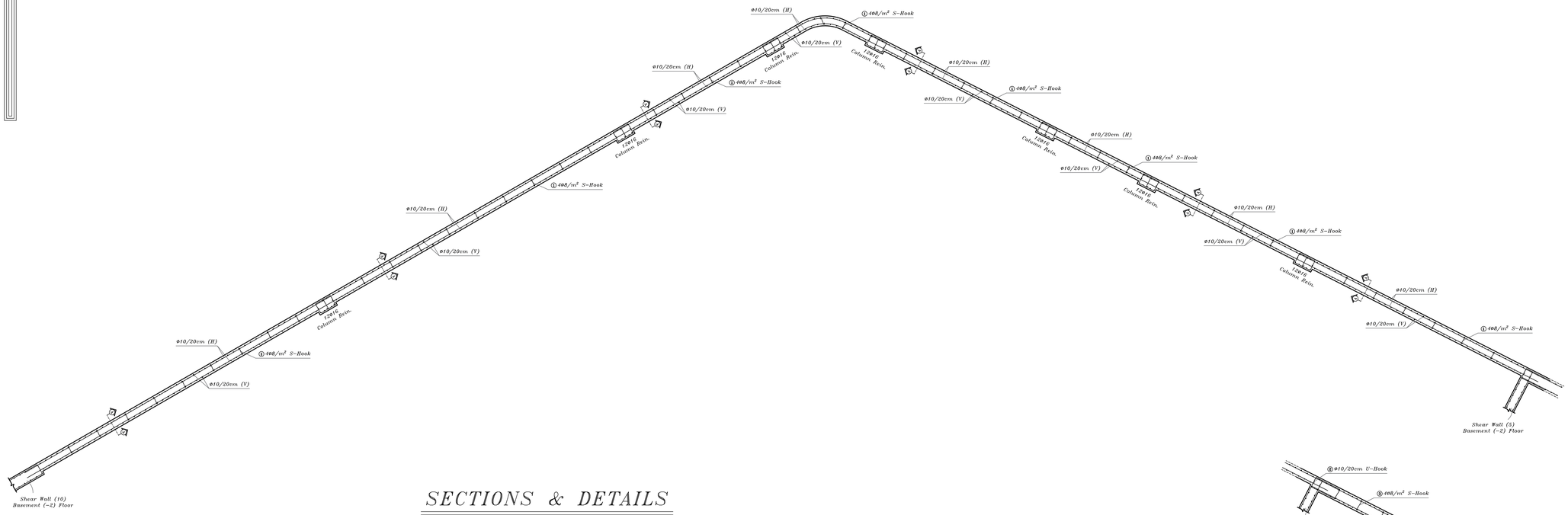
Eng. Sufian Al-Turk

SCALE:

1/50

S38

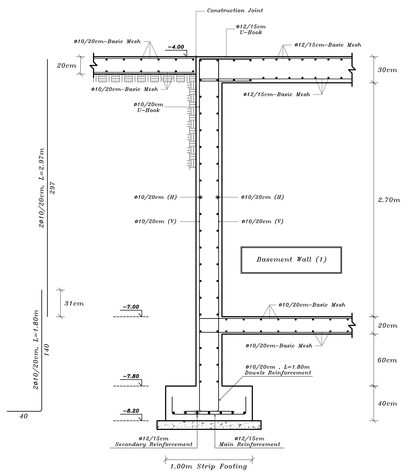
BASEMENT WALL (1) – BASEMENT (-2) FLOOR



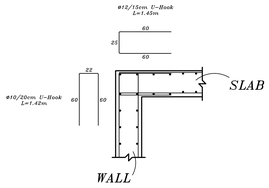
SECTIONS & DETAILS

SCALE 1:25

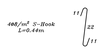
Section (A-A)

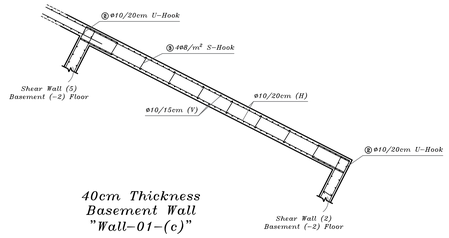


Connection between Wall & Slab



POSITION (1) – S-HOOK DETAIL





40cm Thickness
Basement Wall
"Wall-01-(c)"

NOTES:

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All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Basement Walls Details

Supervisor :

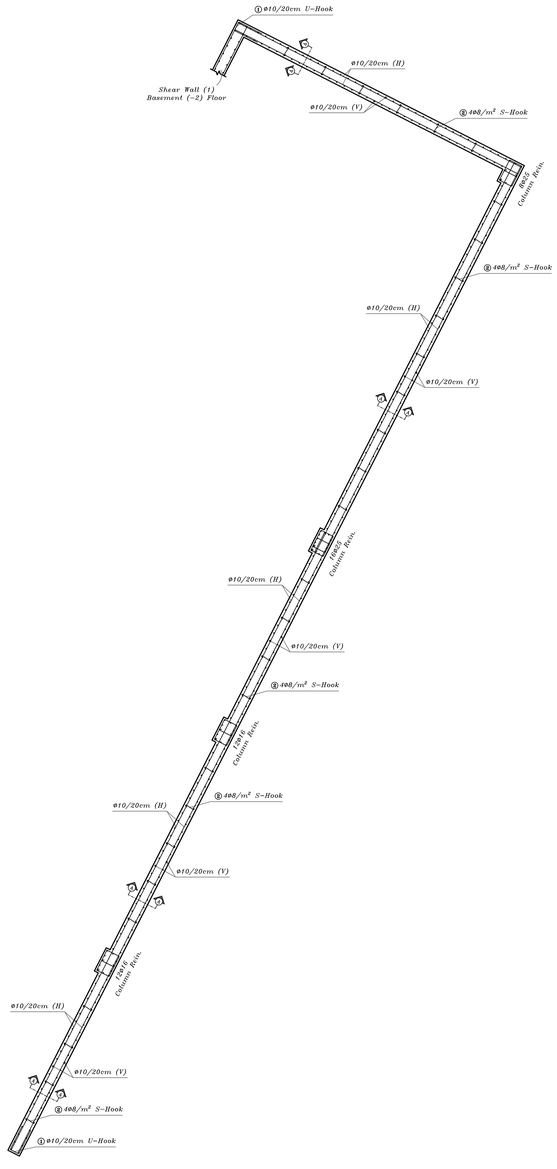
Eng. Sufian Al-Turk

SCALE:

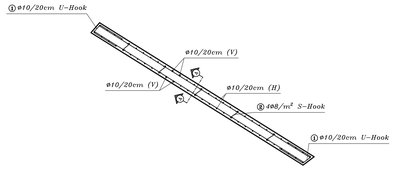
1/50

S39

BASEMENT WALL (2) – BASEMENT (-2) FLOOR

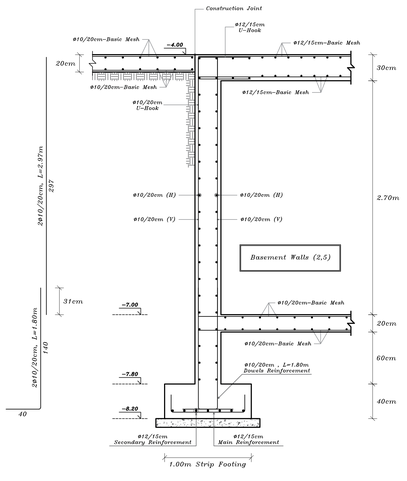


BASEMENT WALL (5) – BASEMENT (-2) FLOOR

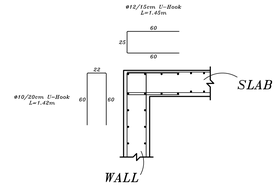


SECTIONS & DETAILS
SCALE 1:25

Section (A-A)

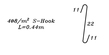


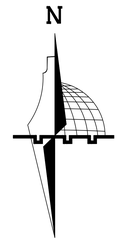
Connection between Wall & Slab



POSITION (1) – U-HOOK DETAIL

POSITION (2) – S-HOOK DETAIL





NOTES:

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All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Basement Walls Details

Supervisor :

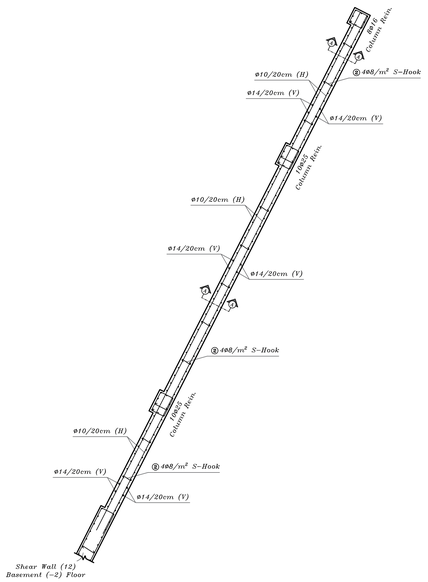
Eng. Sufian Al-Turk

SCALE:

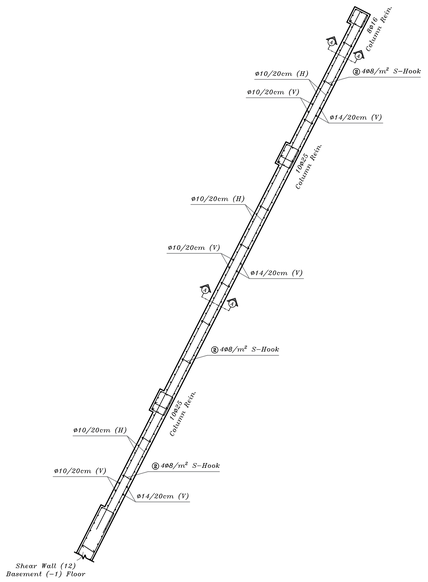
1/50

S40

BASEMENT WALL (3) – BASEMENT (–2) FLOOR



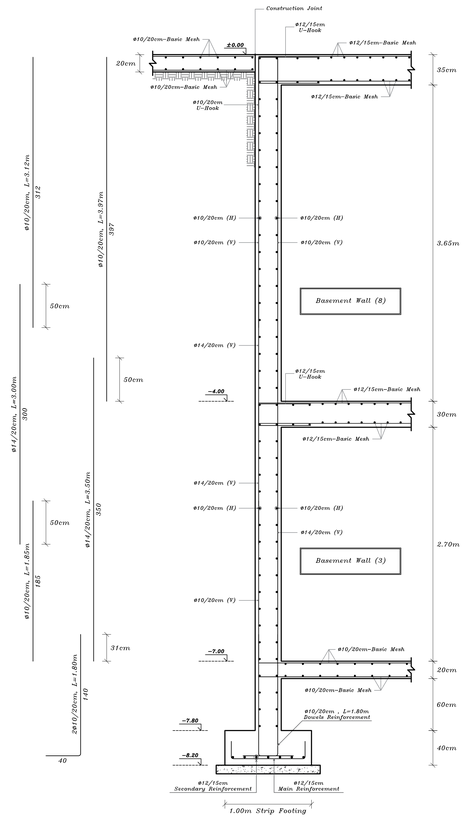
BASEMENT WALL (8) – BASEMENT (–1) FLOOR



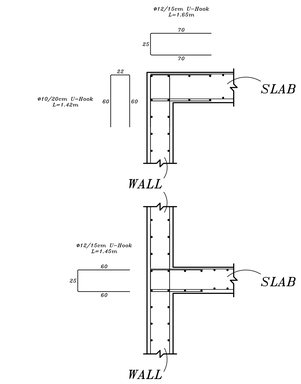
SECTIONS & DETAILS

SCALE 1:25

Section (A–A)



Connection between Wall & Slab



POSITION (2) – S-HOOK DETAIL

N

NOTES:

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All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Basement Walls Details

Supervisor :

Eng. Sufian Al-Turk

SCALE:

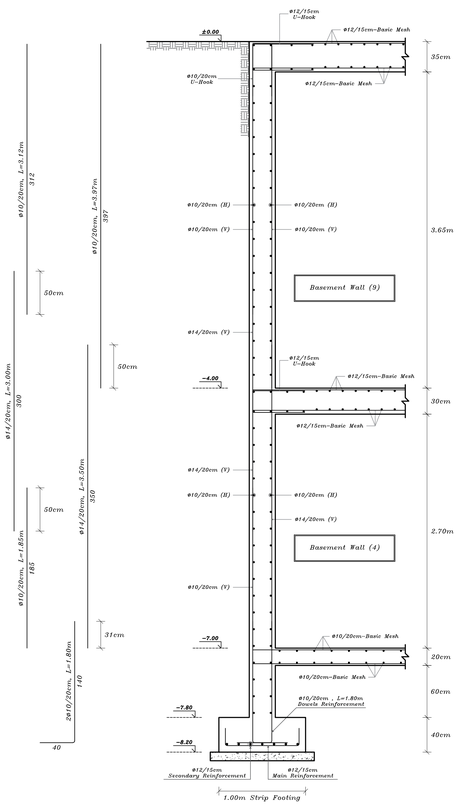
1/50

S41

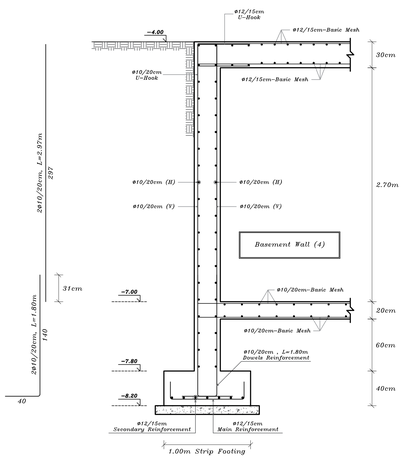
SECTIONS & DETAILS

SCALE 1:25

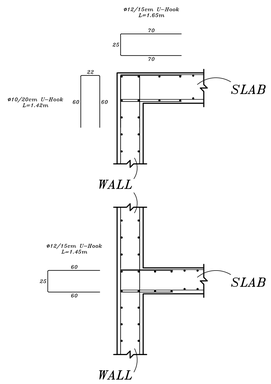
Section (A-A)



Section (B-B)

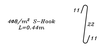


Connection between Wall & Slab

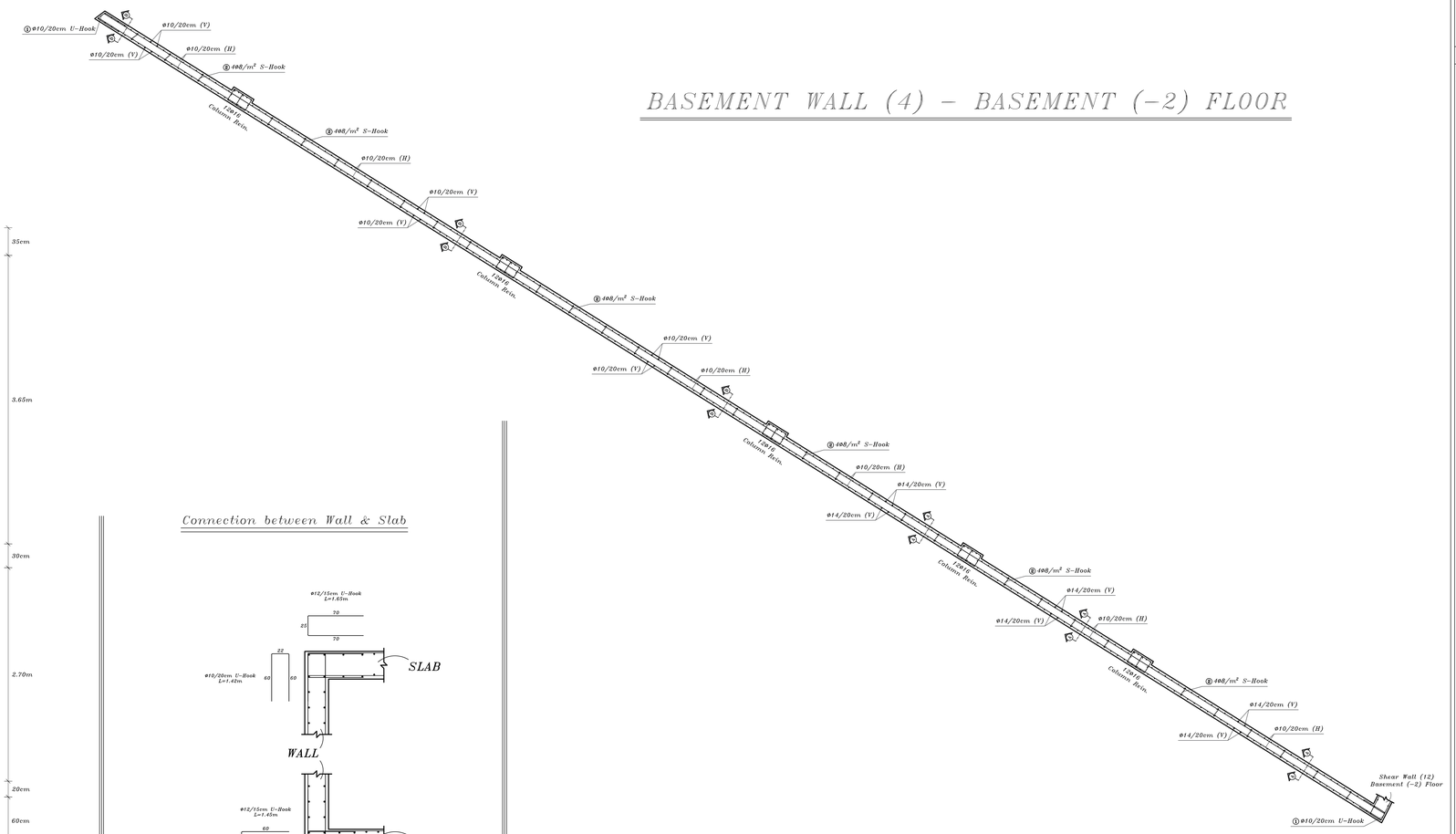


POSITION (1) - U-HOOK DETAIL

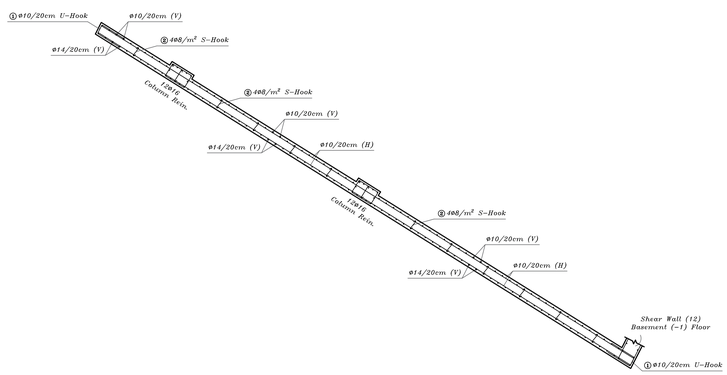
POSITION (2) - S-HOOK DETAIL



BASEMENT WALL (4) - BASEMENT (-2) FLOOR



BASEMENT WALL (9) - BASEMENT (-1) FLOOR



NOTES:

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All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Basement Walls Details

Supervisor :

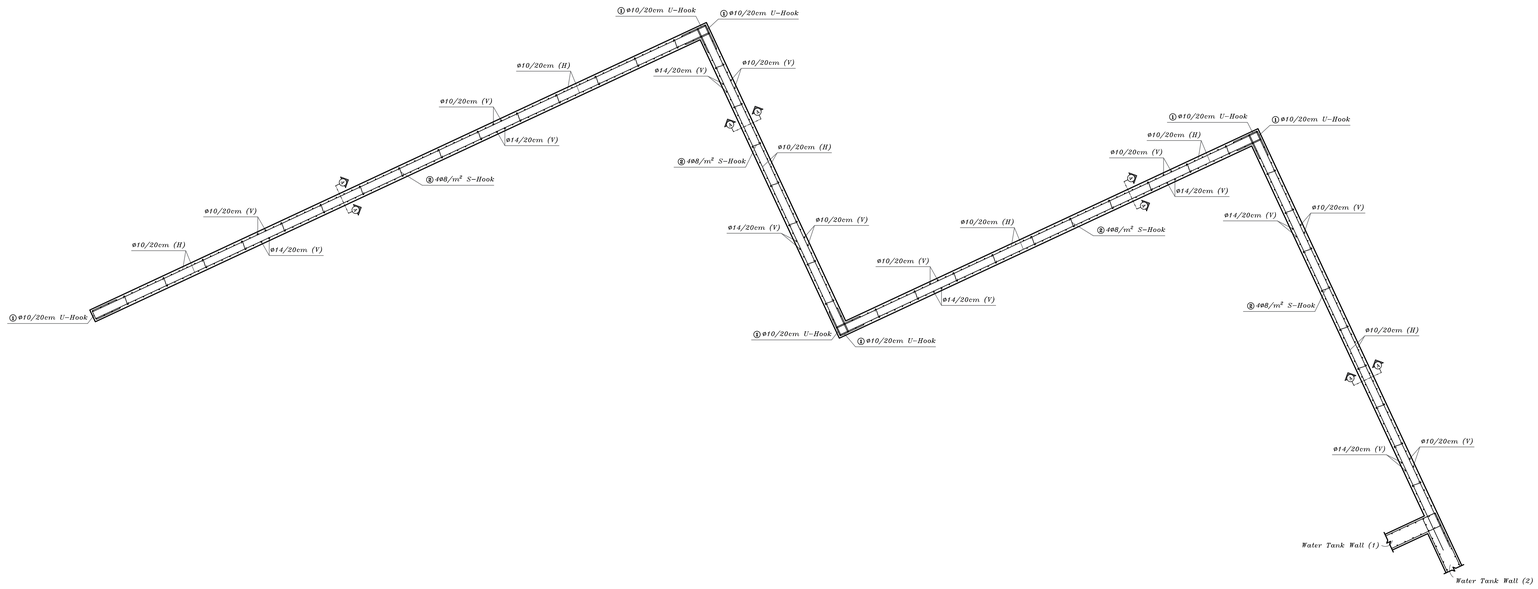
Eng. Sufian Al-Turk

SCALE:

1/50

S42

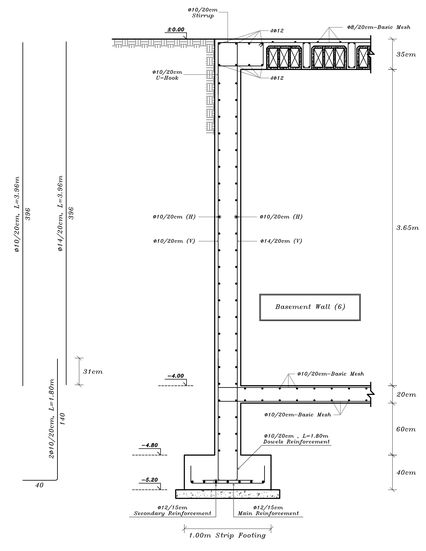
BASEMENT WALL (6) – BASEMENT (–1) FLOOR



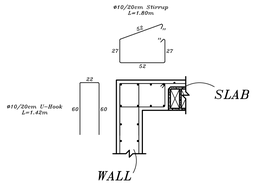
SECTIONS & DETAILS

SCALE 1:25

Section (A–A)

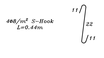


Connection between Wall & Slab



POSITION (1) – U-HOOK DETAIL

POSITION (2) – S-HOOK DETAIL



N

NOTES:

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All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Basement Walls Details

Supervisor :

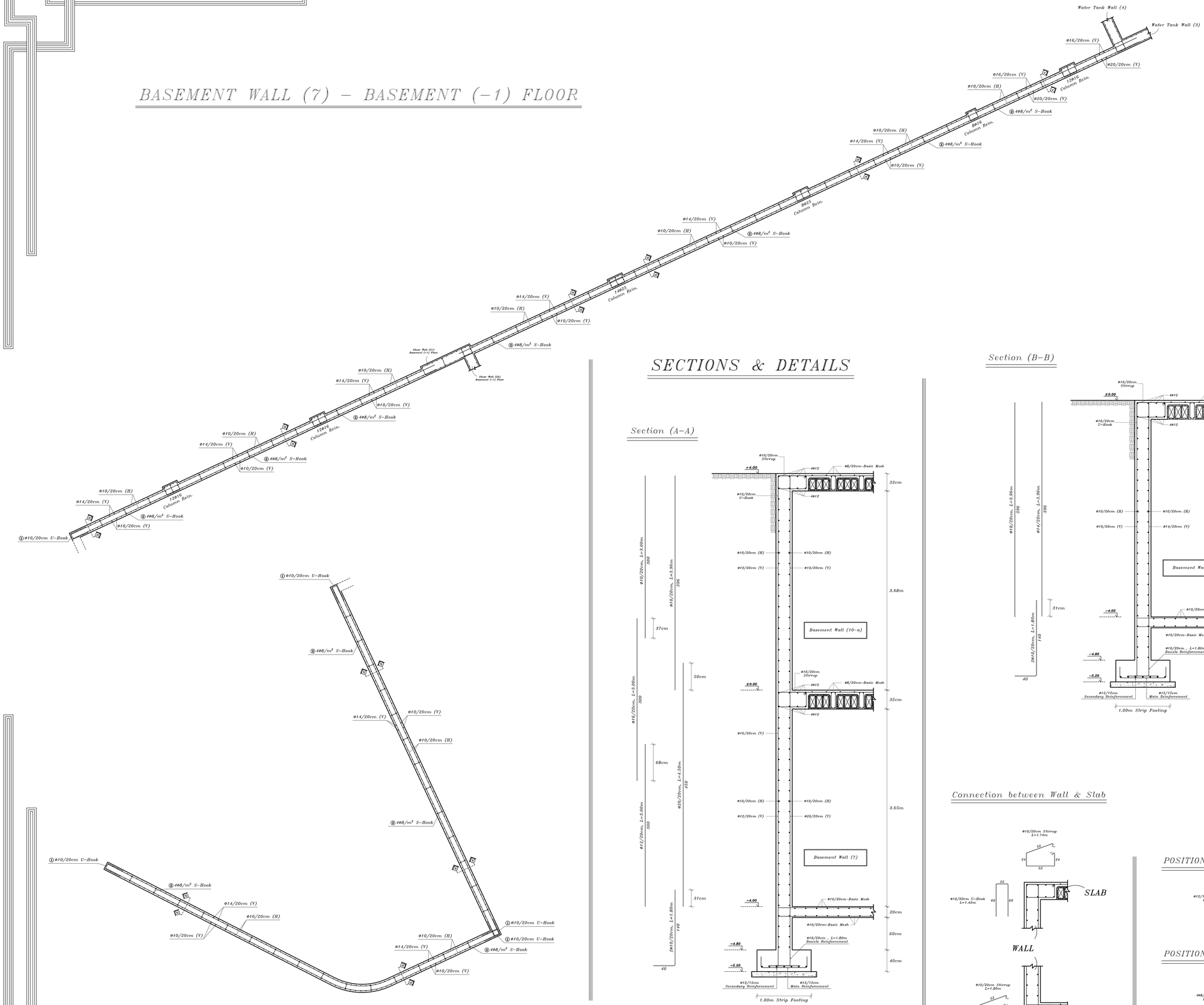
Eng. Sufian Al-Turk

SCALE:

1/50

S43

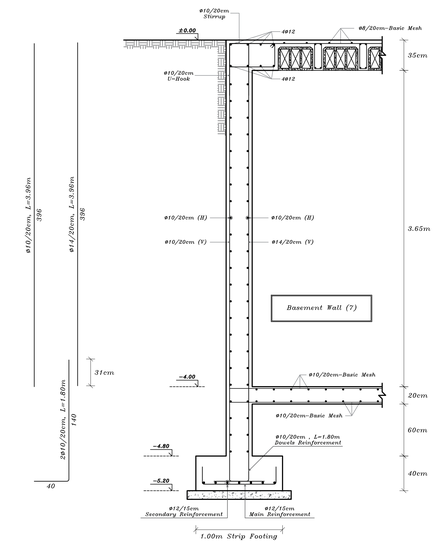
BASEMENT WALL (7) – BASEMENT (–1) FLOOR



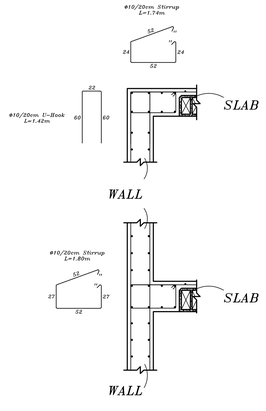
SECTIONS & DETAILS

Section (A–A)

Section (B–B)

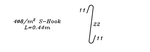


Connection between Wall & Slab



POSITION (1) – U-HOOK DETAIL

POSITION (2) – S-HOOK DETAIL



N

NOTES:

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Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Basement Walls Details

Supervisor :

Eng. Sufian Al-Turk

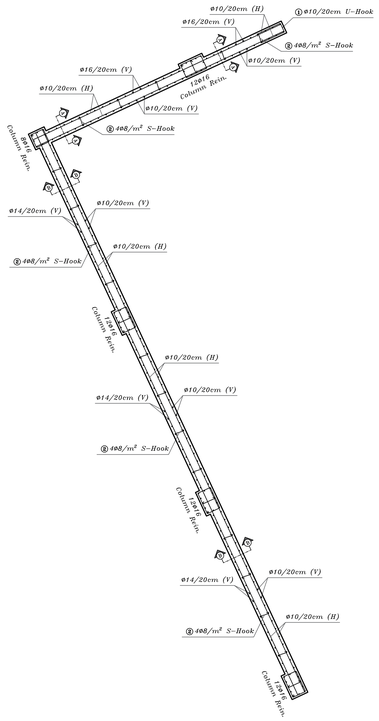
SCALE:

1/50

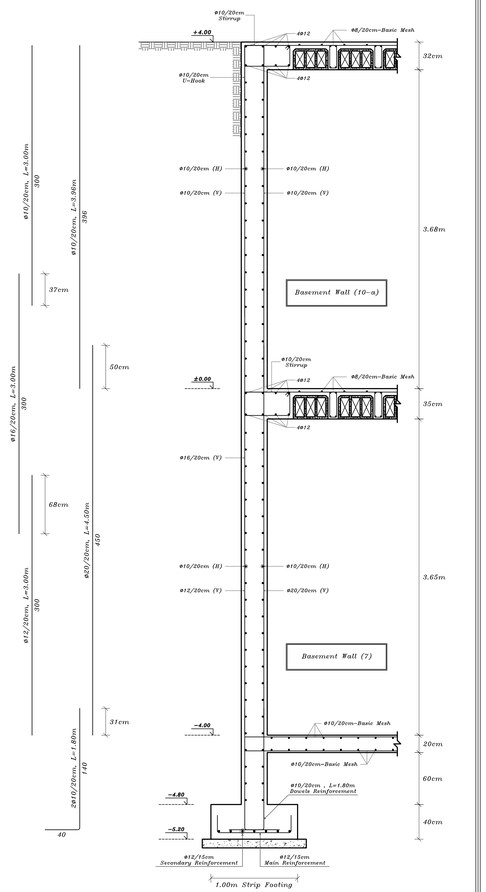
S44

SECTIONS & DETAILS

BASEMENT WALL (10) – GROUND FLOOR

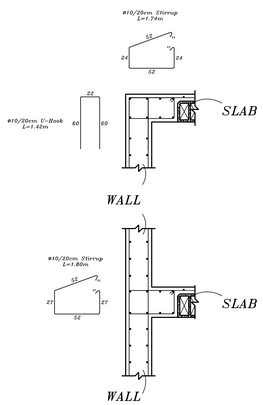


Section (A-A)



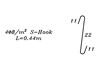
Section (B-B)

Connection between Wall & Slab



POSITION (1) – U-HOOK DETAIL

POSITION (2) – S-HOOK DETAIL



N

NOTES:

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All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Basement Walls Details

Supervisor :

Eng. Sufian Al-Turk

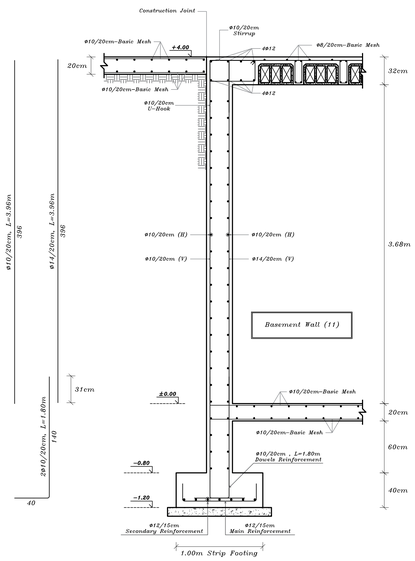
SCALE:

1/50

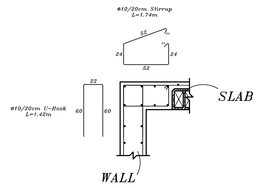
S45

SECTIONS & DETAILS

Section (A-A)

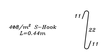


Connection between Wall & Slab

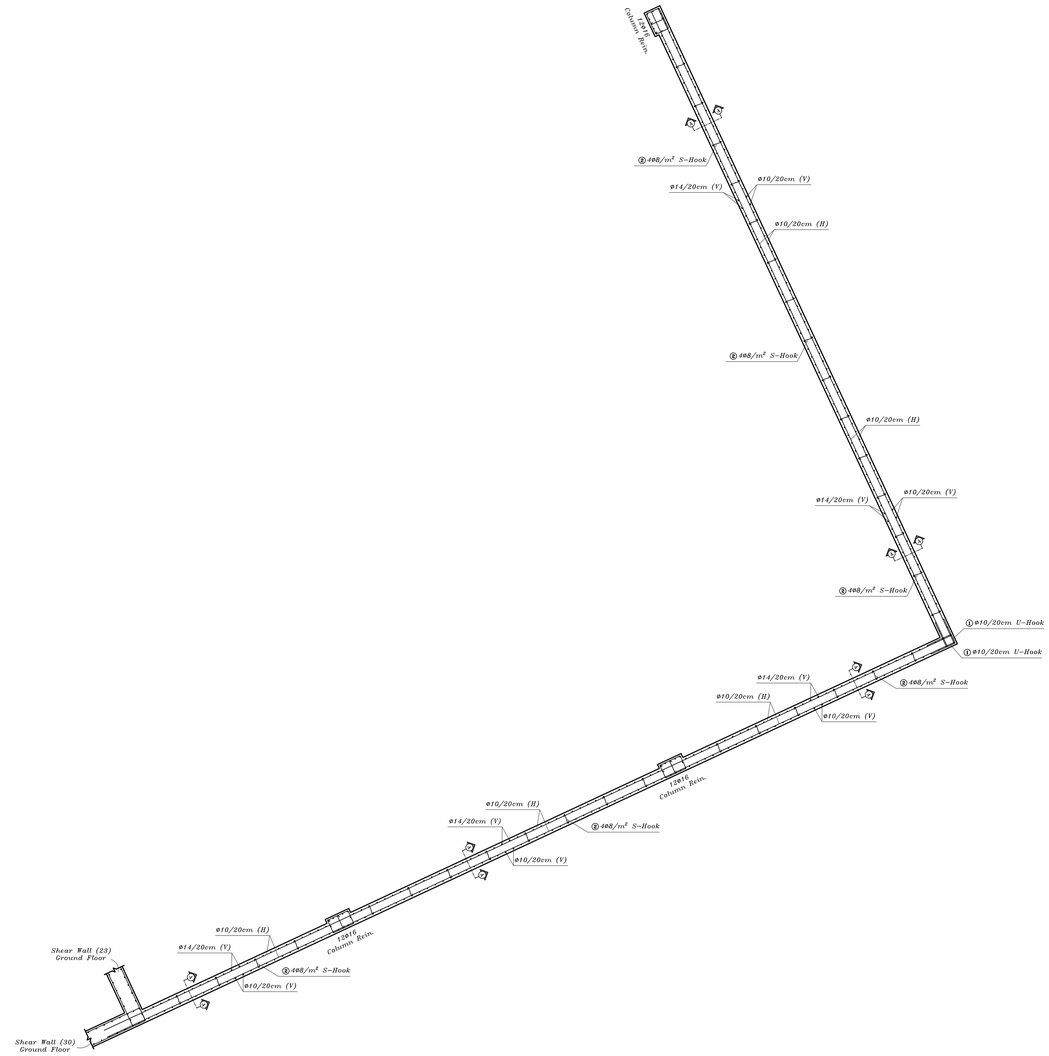


POSITION (1) - U-HOOK DETAIL

POSITION (2) - S-HOOK DETAIL



BASEMENT WALL (11) - GROUND FLOOR



N

NOTES:

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All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Basement Walls Details

Supervisor :

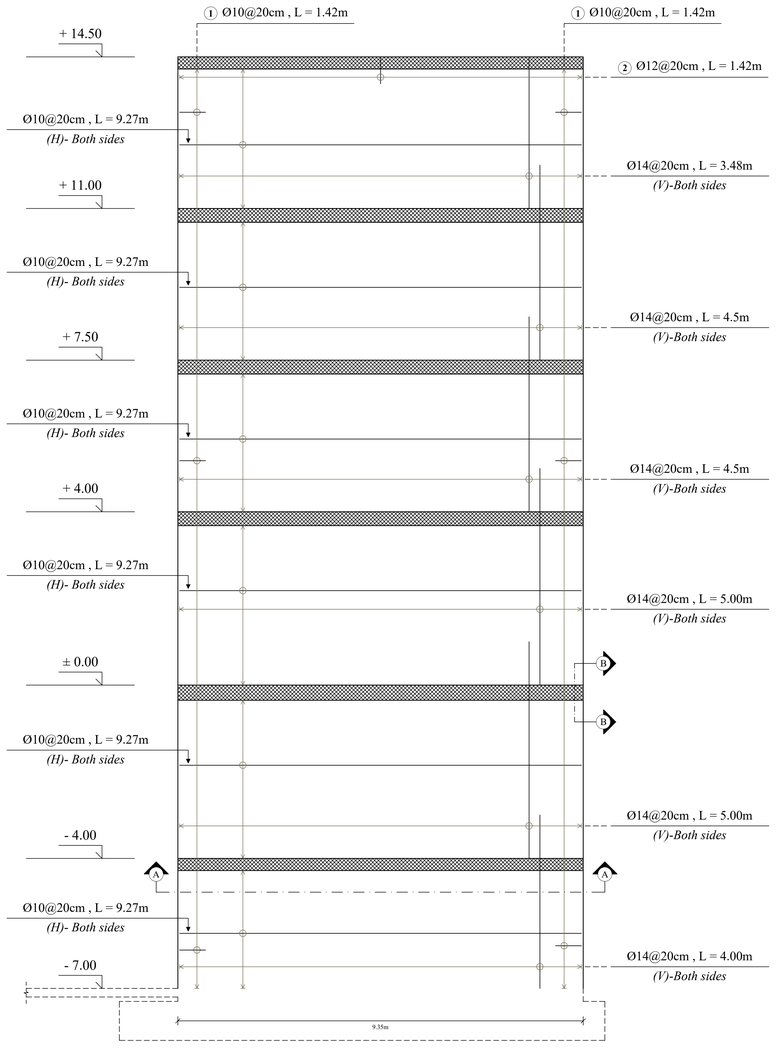
Eng. Sufian Al-Turk

SCALE:

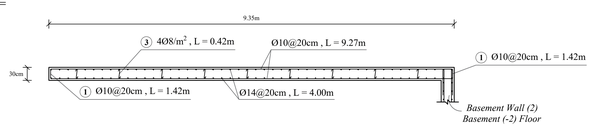
1/50

S46

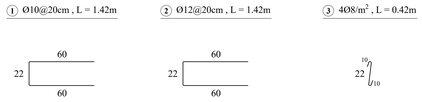
Shear Wall (1)



Section (A-A)

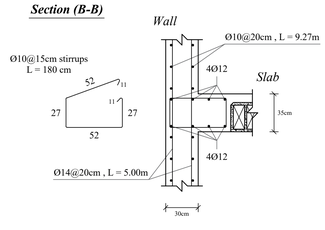


U - Hook & S - Hook Details

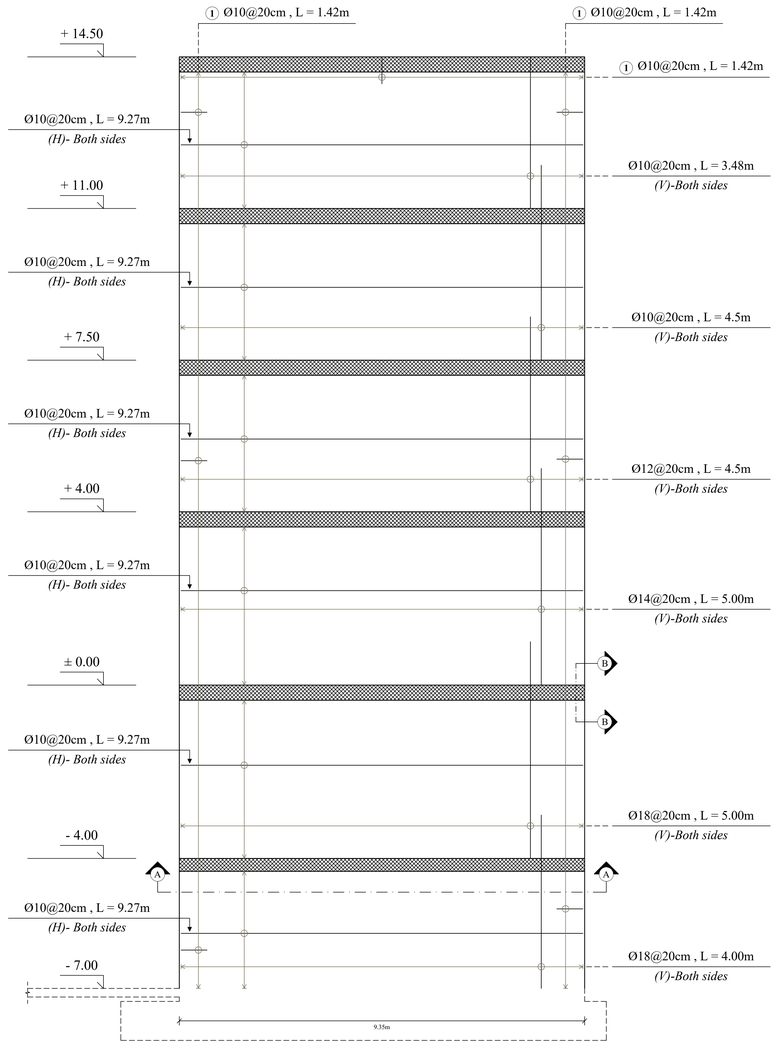


Connection between Wall and Slab

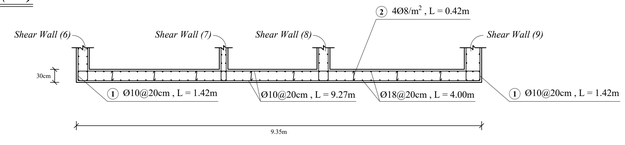
Section (B-B)



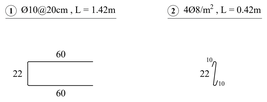
Shear Wall (2)



Section (A-A)

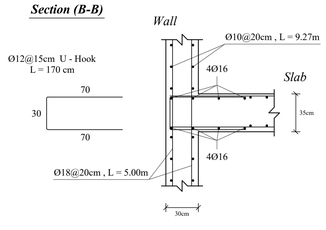


U - Hook & S - Hook Details



Connection between Wall and Slab

Section (B-B)



NOTES:

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All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Shear Wall Details

Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/50

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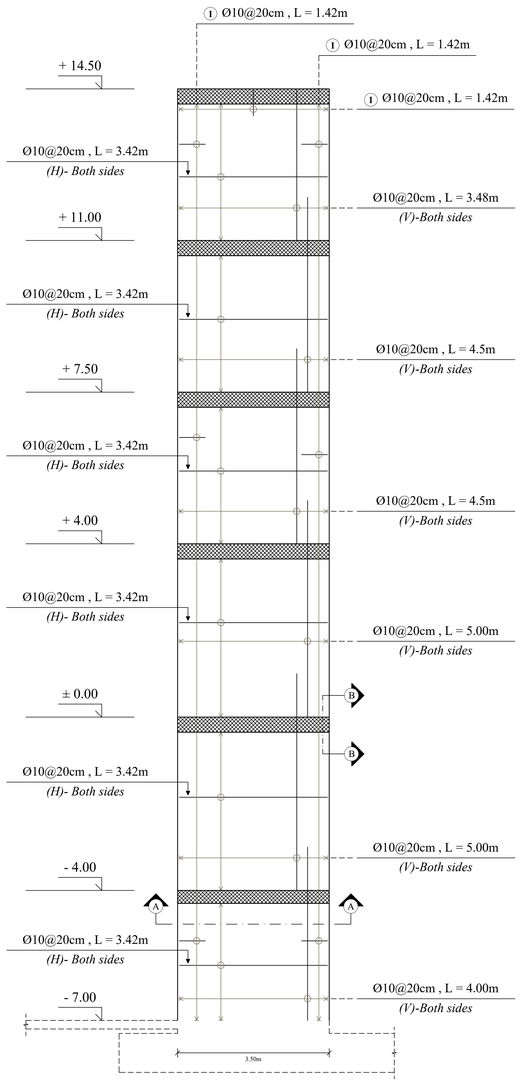
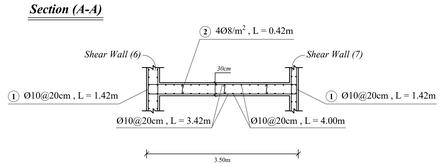
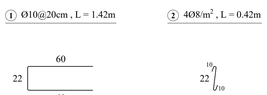
Shear Wall (3)



Section (A-A)

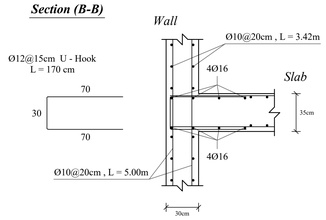


U - Hook & S - Hook Details

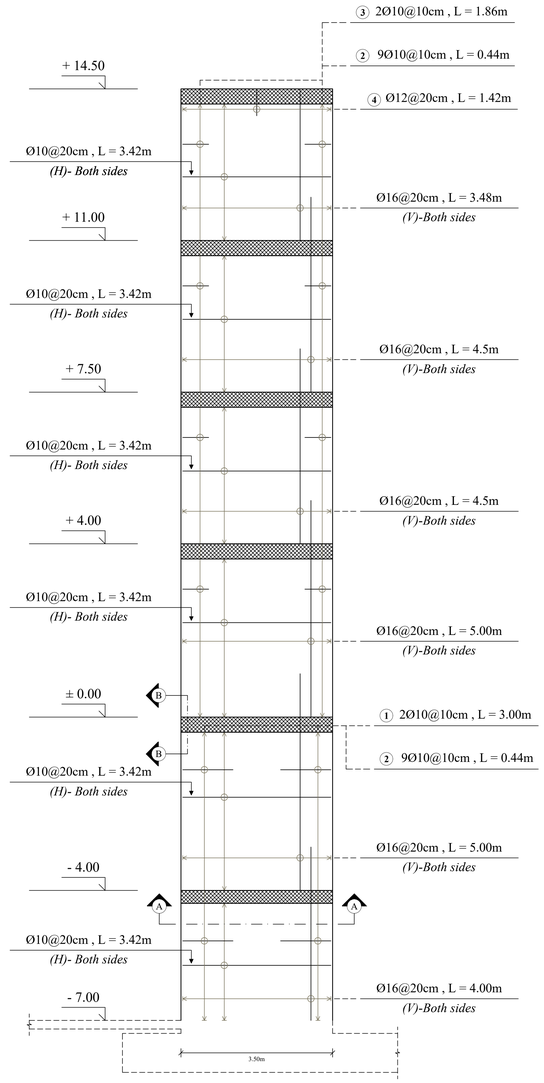


Connection between Wall and Slab

Section (B-B)



Shear Wall (4)



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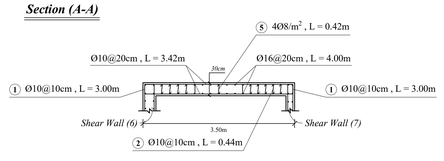
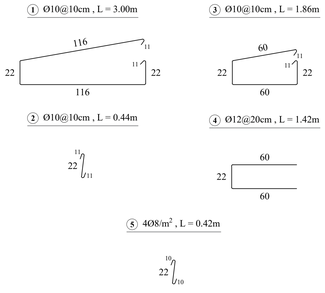
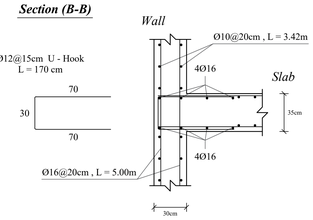


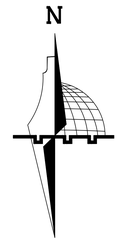
Hook & Stirrups Details



Connection between Wall and Slab

Section (B-B)





NOTES:

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All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Shear Wall Details

Supervisor :

Eng. Sufian Al-Turk

SCALE:

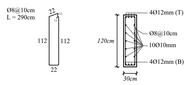
1/50

S48

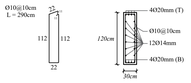
Shear Wall (5)

Spandrel Sections

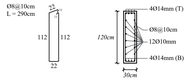
Section (6-6)



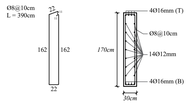
Section (5-5)



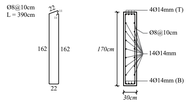
Section (4-4)



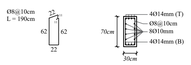
Section (3-3)

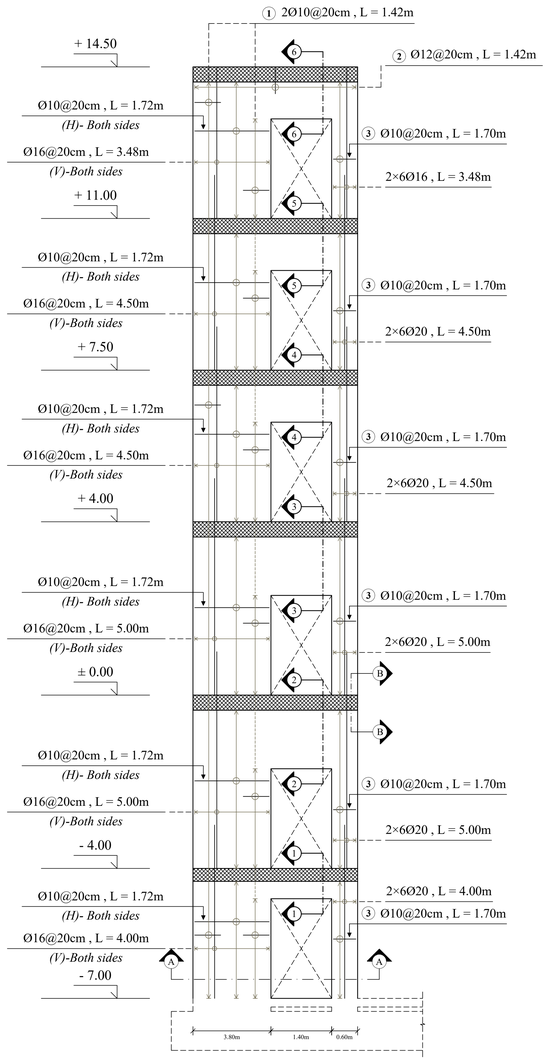


Section (2-2)

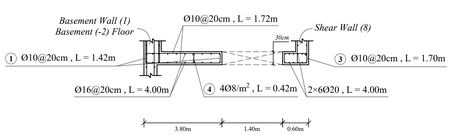


Section (1-1)

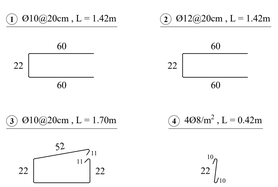




Section (A-A)

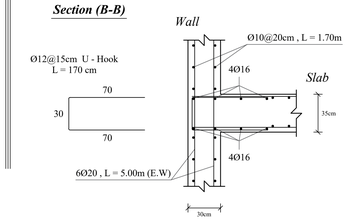


U - Hook & S - Hook Details



Connection between Wall and Slab

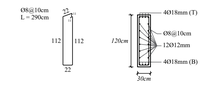
Section (B-B)



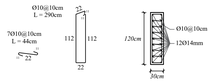
Shear Wall (6)

Spandrel Sections

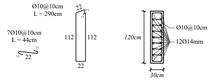
Section (6-6)



Section (5-5)



Section (4-4)



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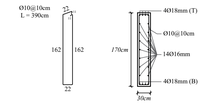

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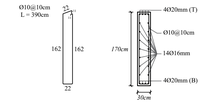
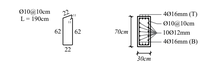
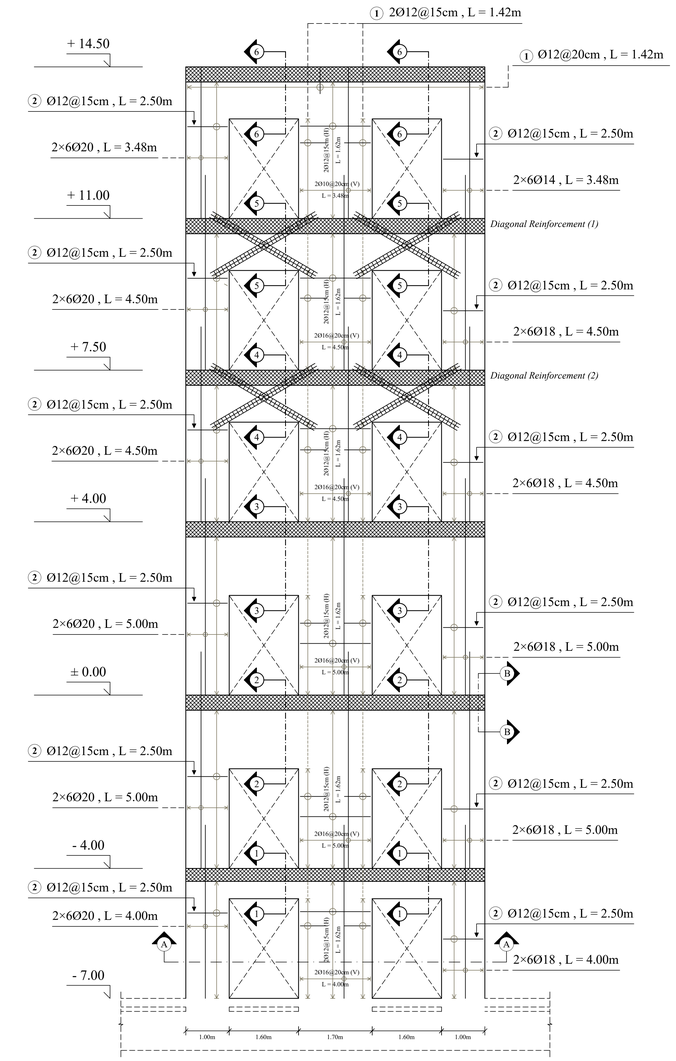


Section (1-1)



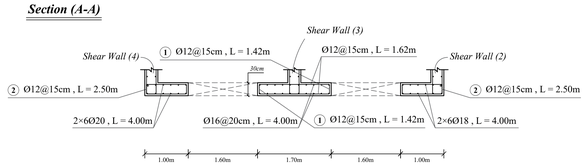


Diagonal Reinforcement Sections

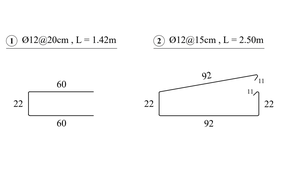
Diagonal Reinforcement (1)

Diagonal Reinforcement (2)

Section (A-A)

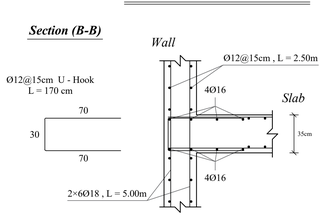


U - Hook Details



Connection between Wall and Slab

Section (B-B)



NOTES:

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Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Shear Wall Details

Supervisor :

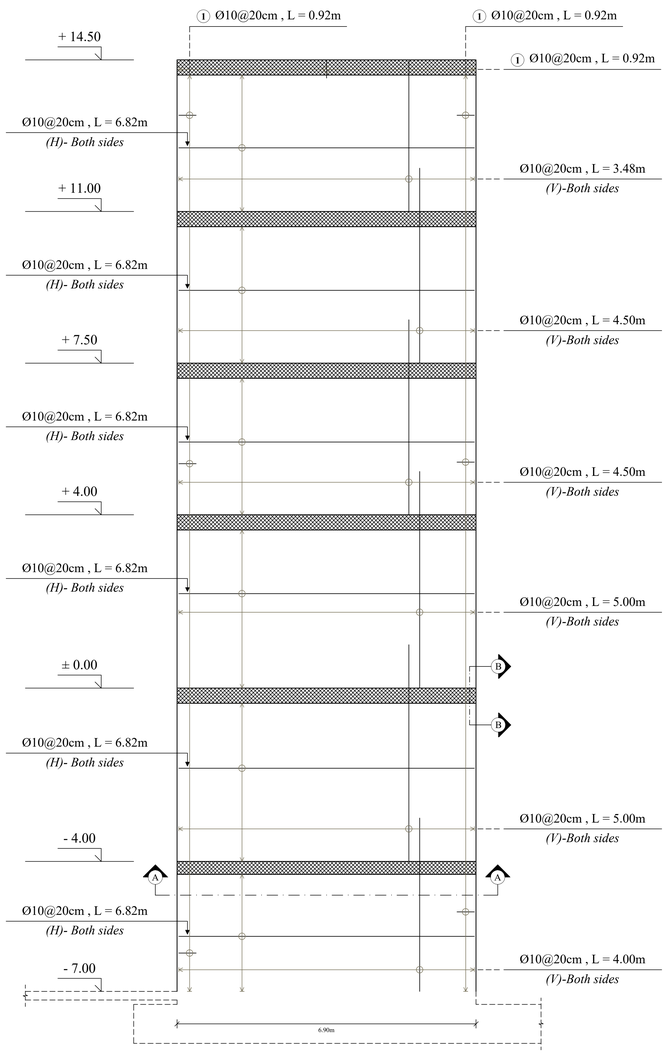
Eng. Sufian Al-Turk

SCALE:

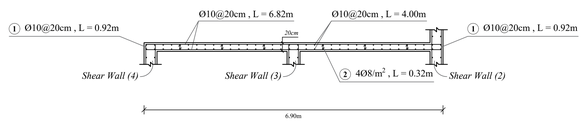
1/50

S49

Shear Wall (7)



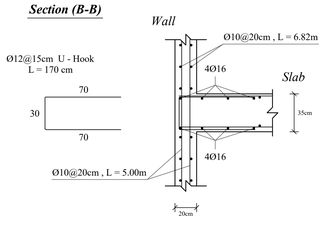
Section (A-A)



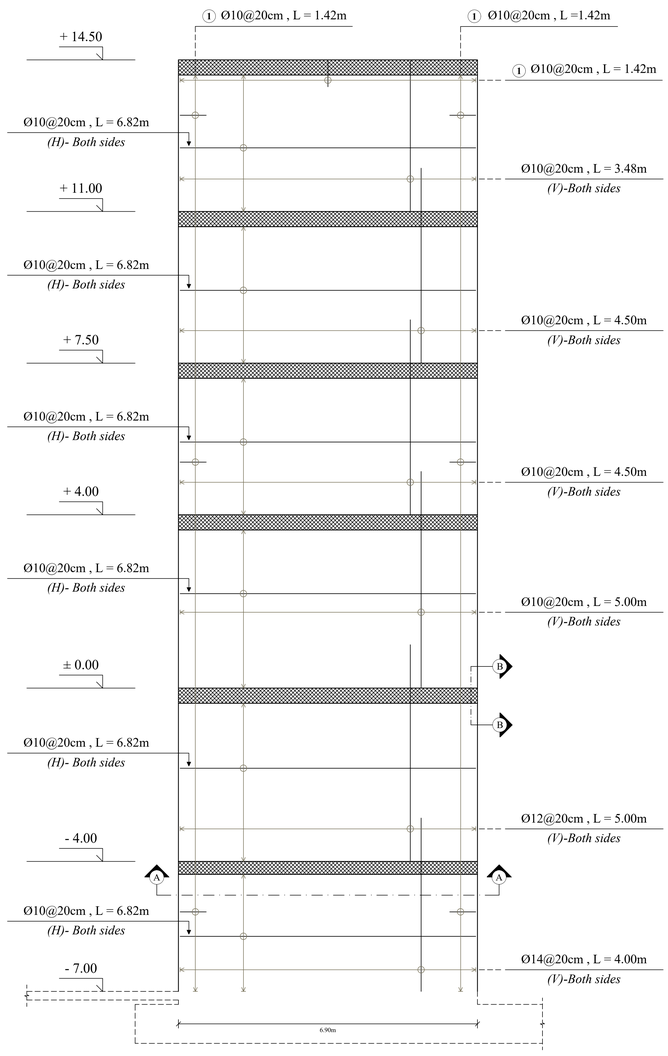
U - Hook & S - Hook Details

Connection between Wall and Slab

Section (B-B)



Shear Wall (8)



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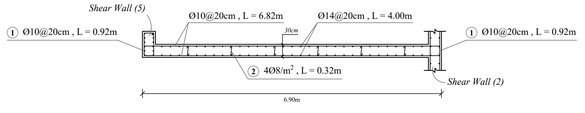
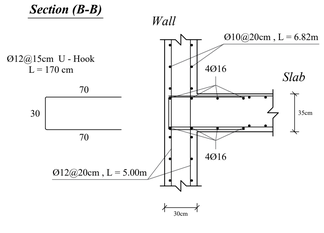
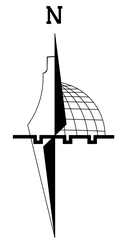


U - Hook & S - Hook Details

Connection between Wall and Slab

Section (B-B)





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Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Shear Wall Details

Supervisor :

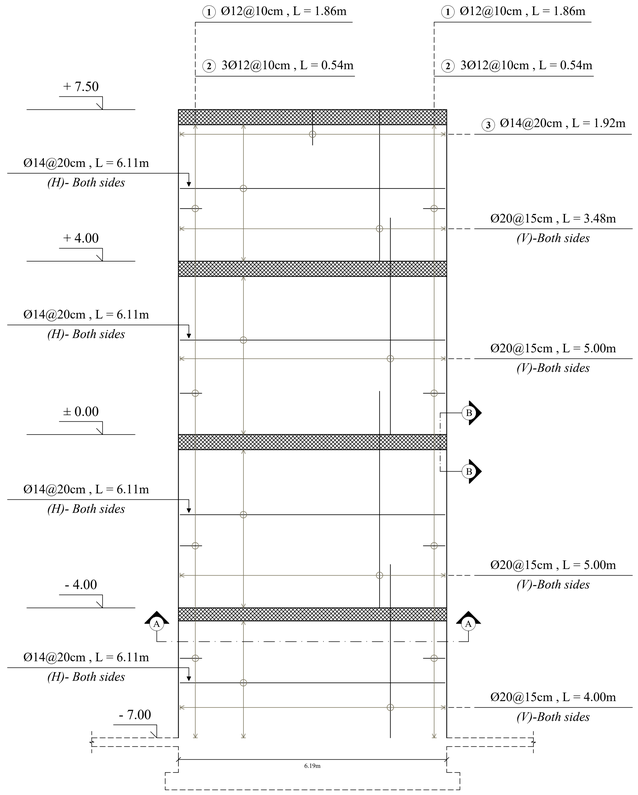
Eng. Sufian Al-Turk

SCALE:

1/50

S50

Shear Wall (9)



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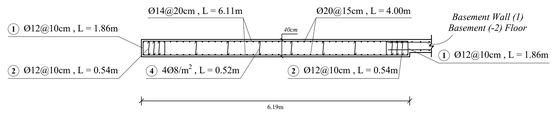
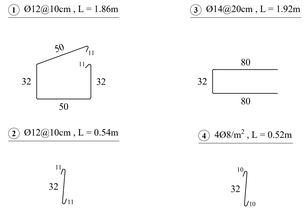
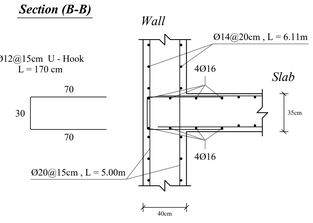


Hook & Stirrups Details

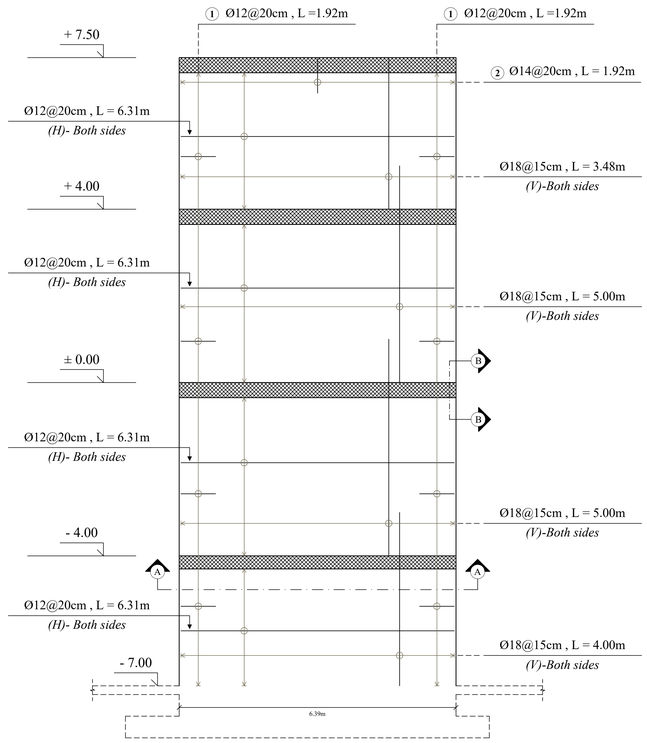


Connection between Wall and Slab

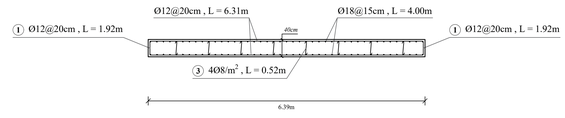
Section (B-B)



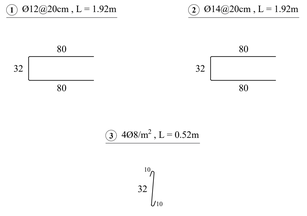
Shear Wall (10)



Section (A-A)

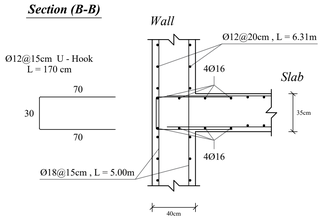


U - Hook & S - Hook Details



Connection between Wall and Slab

Section (B-B)



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Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Shear Wall Details

Supervisor :

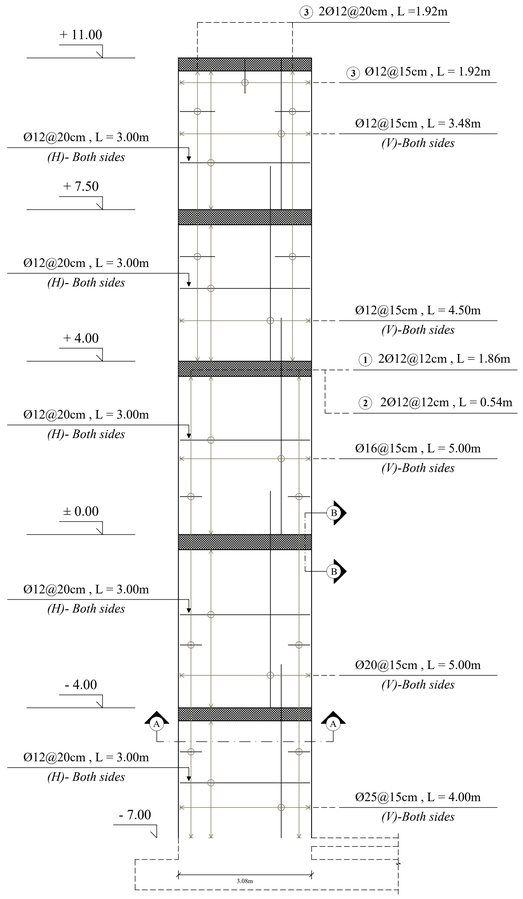
Eng. Sufian Al-Turk

SCALE:

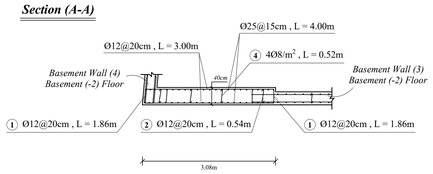
1/50

S51

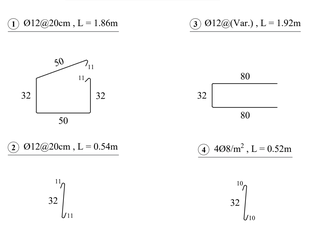
Shear Wall (11)



Section (A-A)

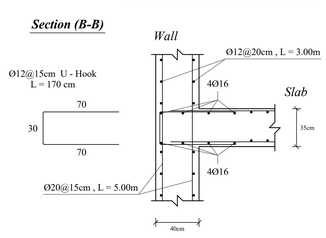


Hook & Stirrups Details

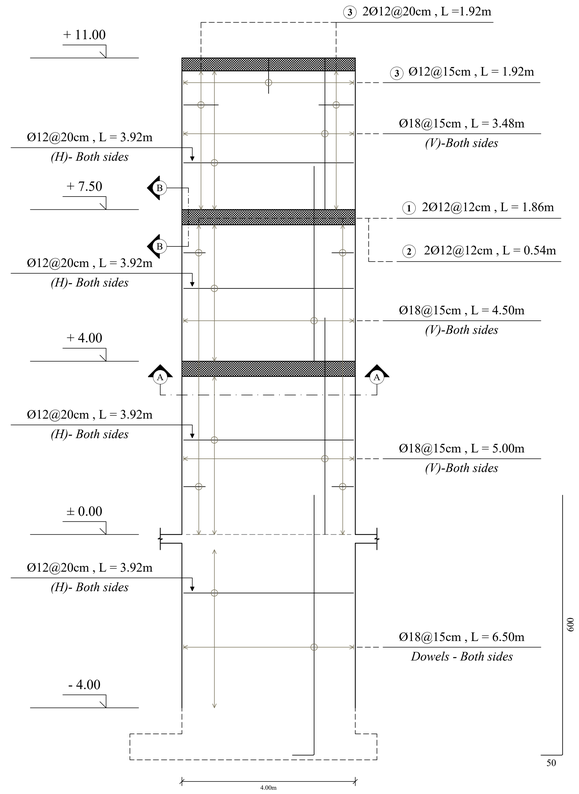


Connection between Wall and Slab

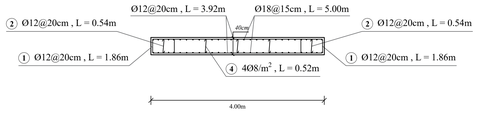
Section (B-B)



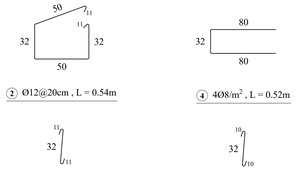
Shear Wall (12)



Section (A-A)

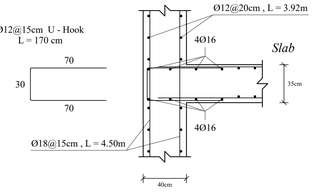


Hook & Stirrups Details



Connection between Wall and Slab

Section (B-B)



NOTES:

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Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Shear Wall Details

Supervisor :

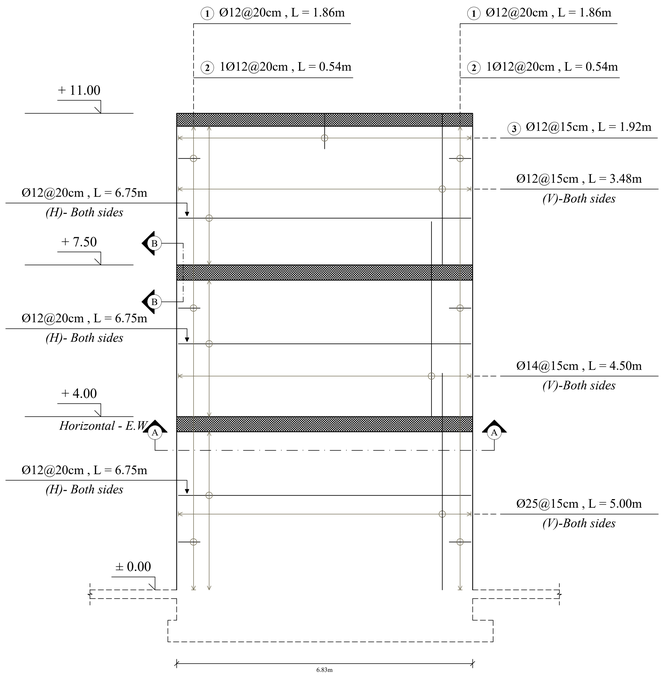
Eng. Sufian Al-Turk

SCALE:

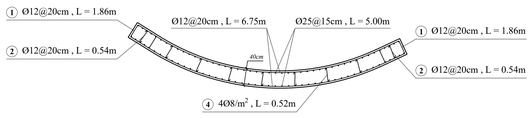
1/50

S52

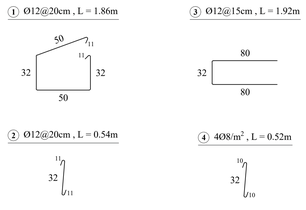
Shear Wall (13)



Section (A-A)

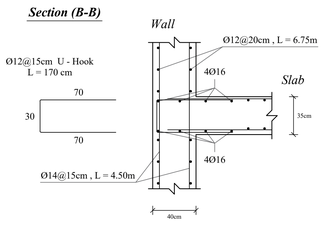


Hook & Stirrups Details

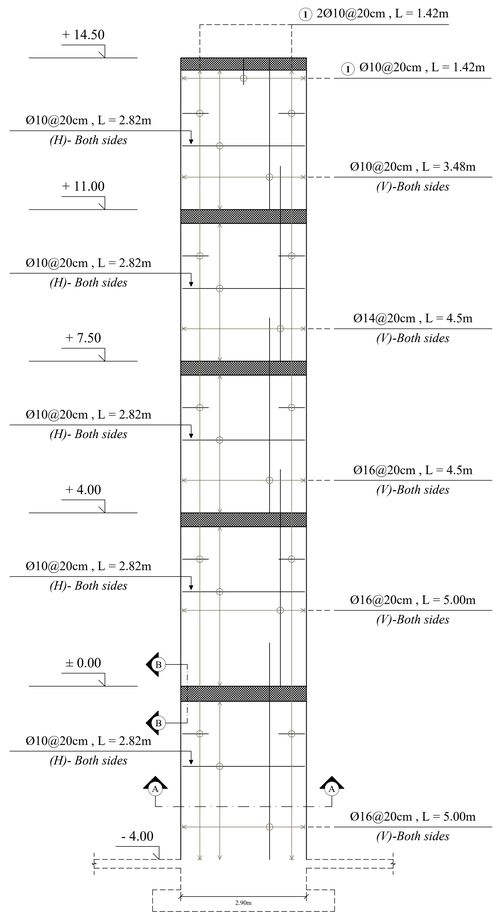


Connection between Wall and Slab

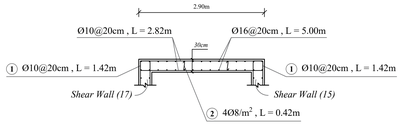
Section (B-B)



Shear Wall (14)



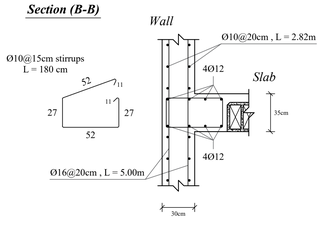
Section (A-A)



U - Hook & S - Hook Details

Connection between Wall and Slab

Section (B-B)



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Palestine Polytechnic University

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Building Engineering

Designed By:

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NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Shear Wall Details

Supervisor :

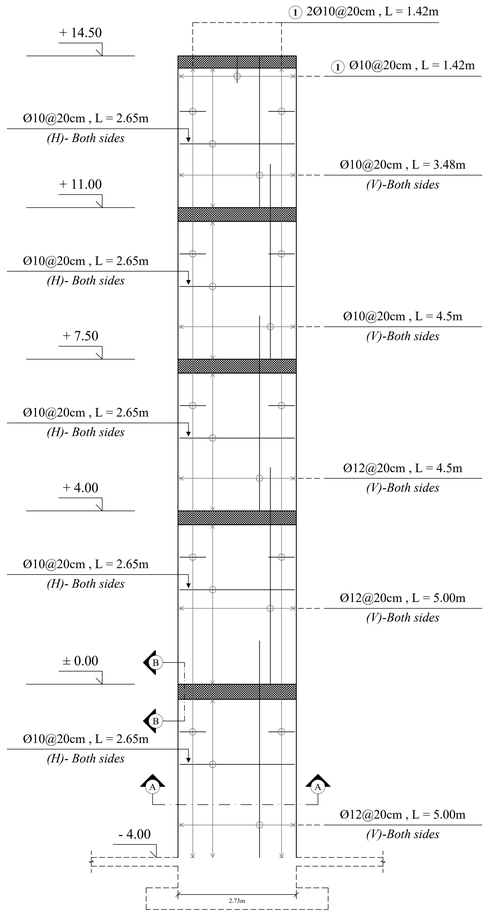
Eng. Sufian Al-Turk

SCALE:

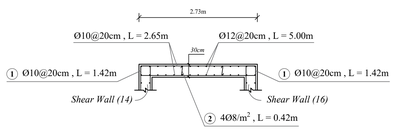
1/50

S53

Shear Wall (15)



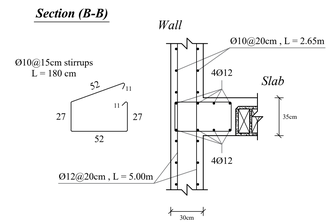
Section (A-A)



U - Hook & S - Hook Details

Connection between Wall and Slab

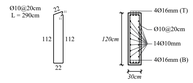
Section (B-B)



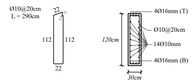
Shear Wall (16)

Spandrel Sections

Section (5-5)



Section (4-4)



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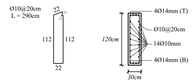
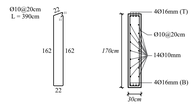


Section (2-2)



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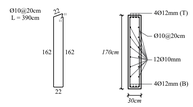
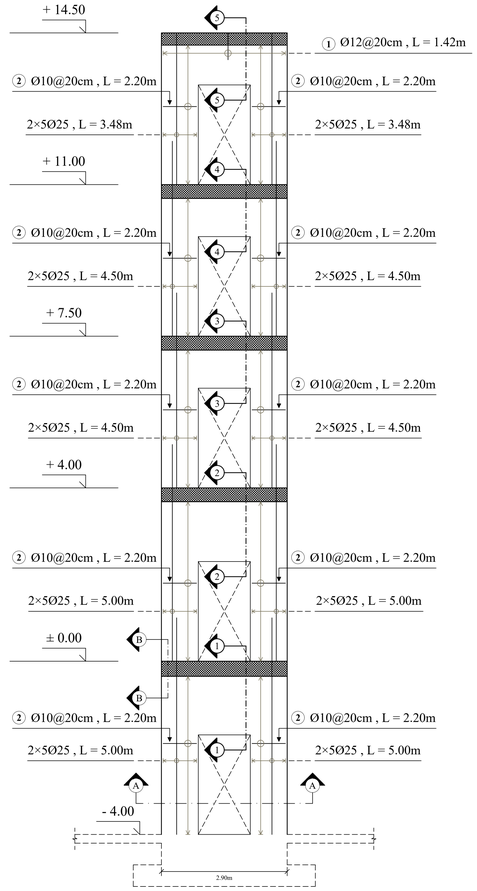
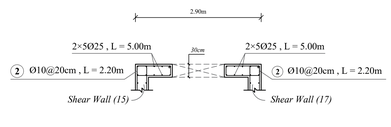
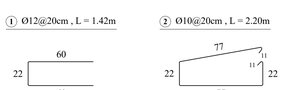




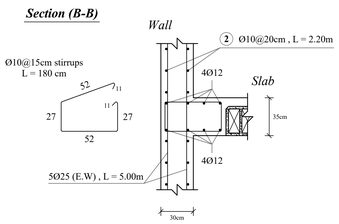


U - Hook & Stirrup Details



Connection between Wall and Slab

Section (B-B)



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Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Shear Wall Details

Supervisor :

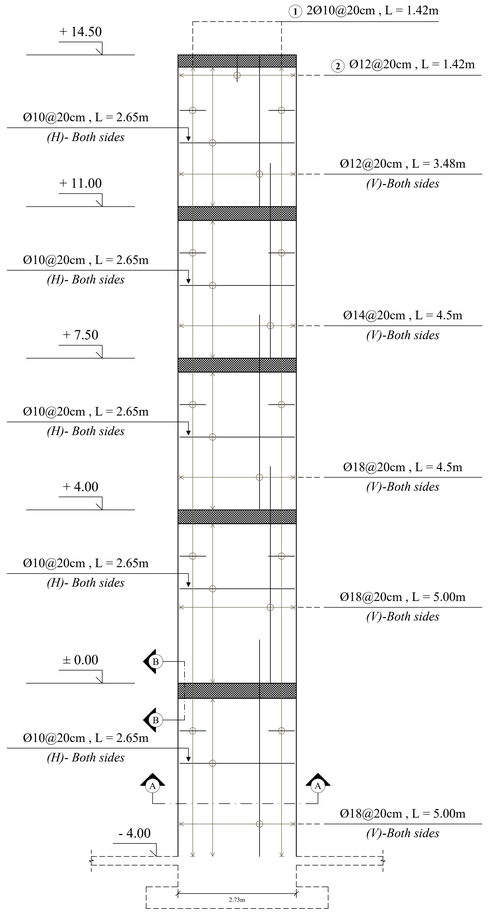
Eng. Sufian Al-Turk

SCALE:

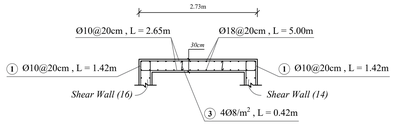
1/50

554

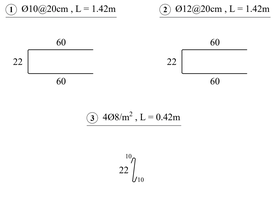
Shear Wall (17)



Section (A-A)

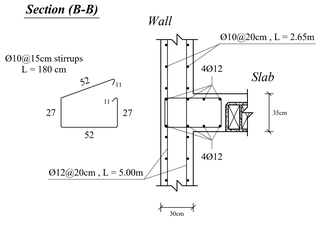


U - Hook & S - Hook Details

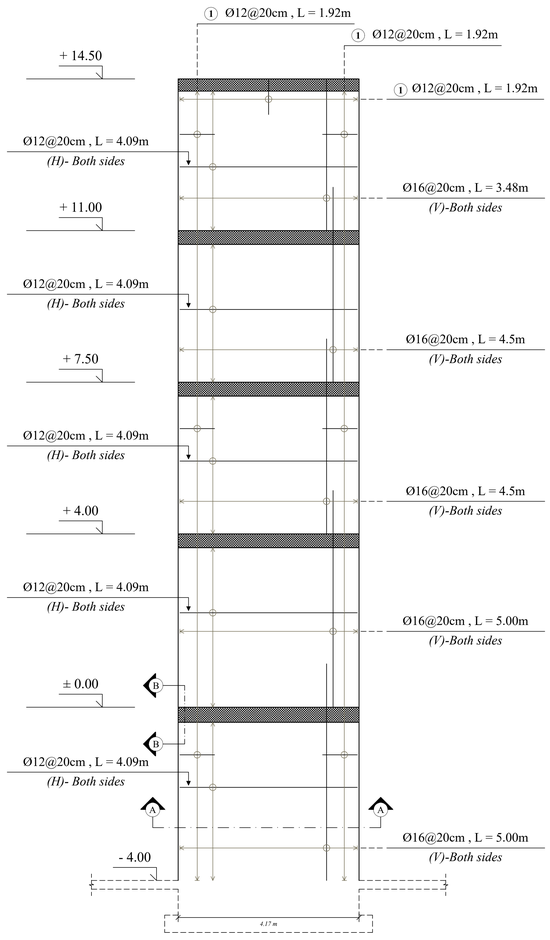


Connection between Wall and Slab

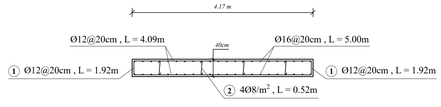
Section (B-B)



Shear Wall (18)



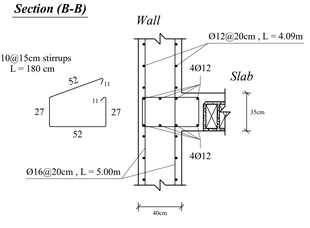
Section (A-A)



U - Hook & S - Hook Details

Connection between Wall and Slab

Section (B-B)



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Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Shear Wall Details

Supervisor :

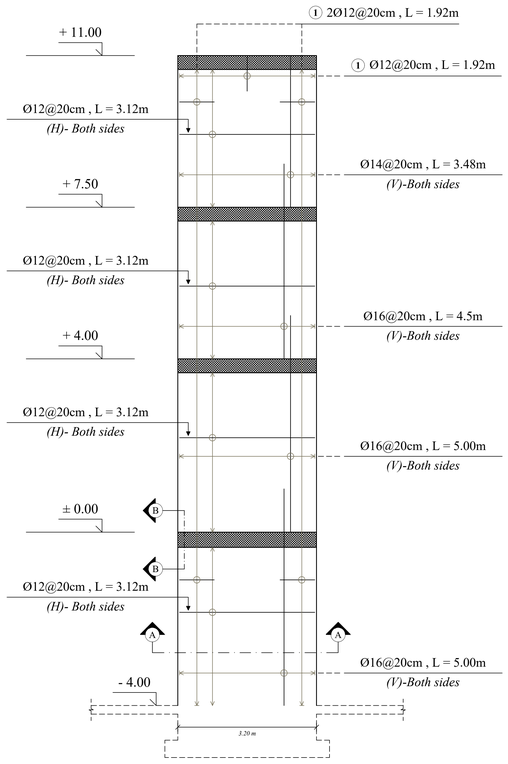
Eng. Sufian Al-Turk

SCALE:

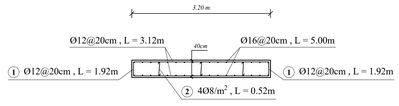
1/50

S55

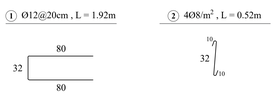
Shear Wall (19)



Section (A-A)

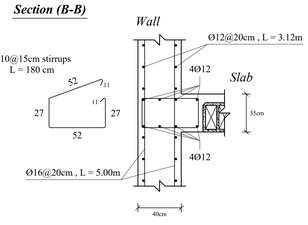


U - Hook & S - Hook Details

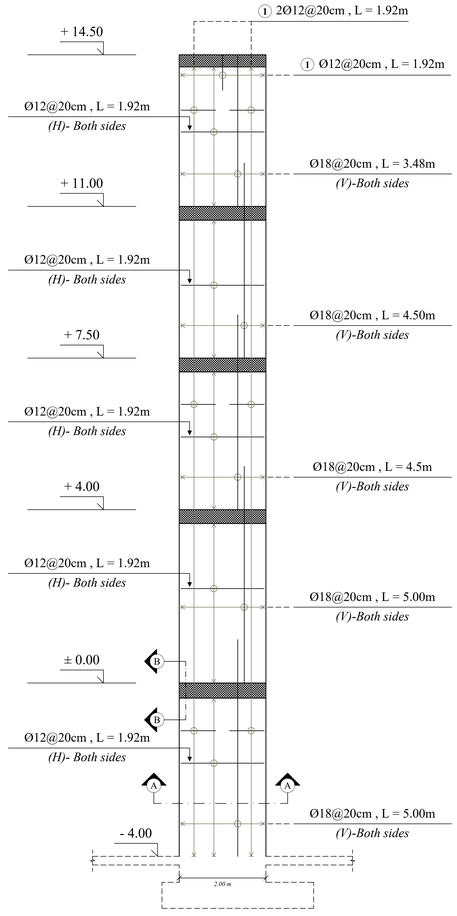


Connection between Wall and Slab

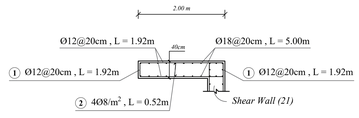
Section (B-B)



Shear Wall (20)



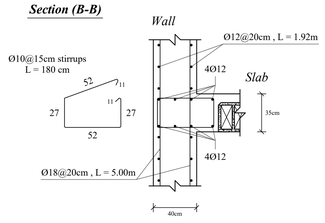
Section (A-A)

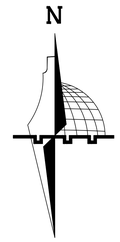


U - Hook & S - Hook Details

Connection between Wall and Slab

Section (B-B)





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Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Shear Wall Details

Supervisor :

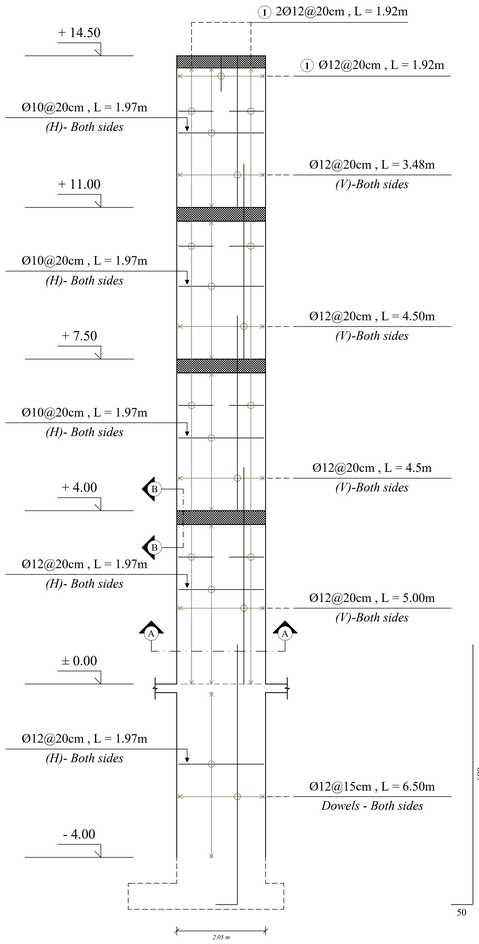
Eng. Sufian Al-Turk

SCALE:

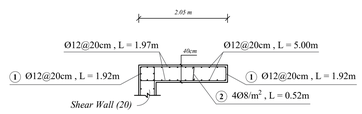
1/50

S56

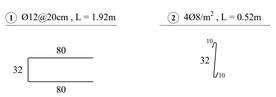
Shear Wall (21)



Section (A-A)

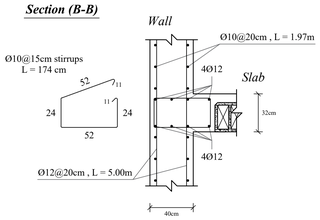


U - Hook & S - Hook Details

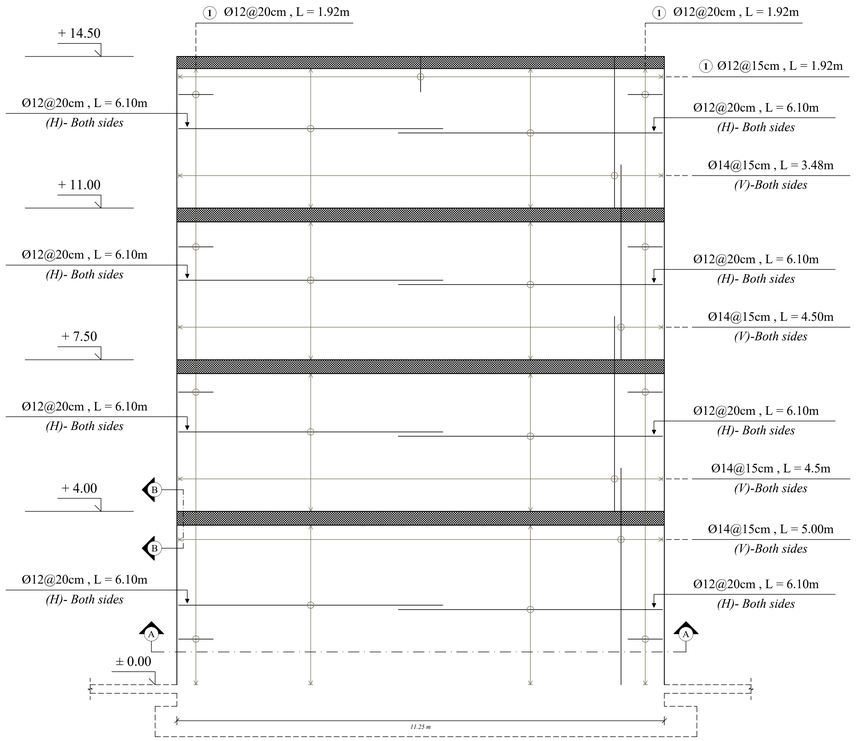


Connection between Wall and Slab

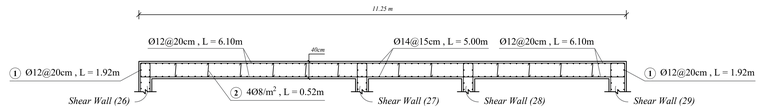
Section (B-B)



Shear Wall (22)



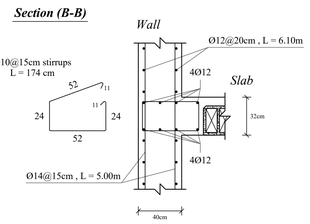
Section (A-A)



U - Hook & S - Hook Details

Connection between Wall and Slab

Section (B-B)



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Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Shear Wall Details

Supervisor :

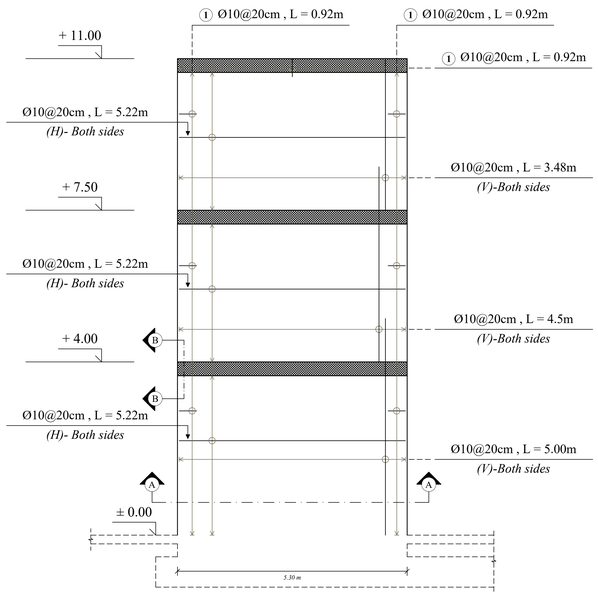
Eng. Sufian Al-Turk

SCALE:

1/50

S57

Shear Wall (23)



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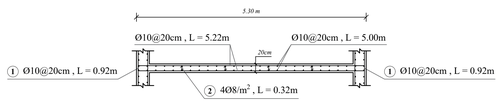
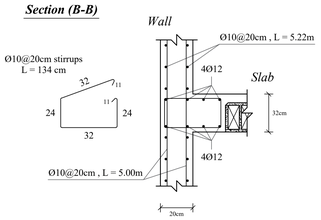


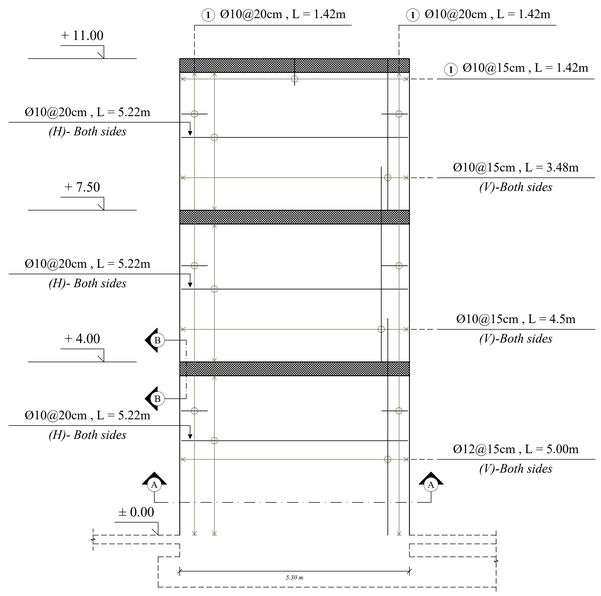
U - Hook & S - Hook Details

Connection between Wall and Slab

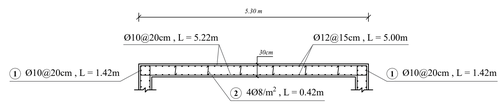
Section (B-B)



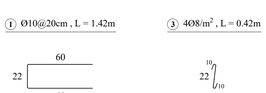
Shear Wall (24)



Section (A-A)

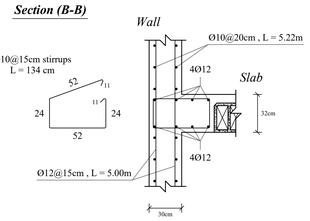


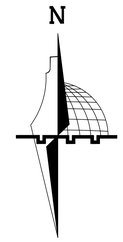
U - Hook & S - Hook Details



Connection between Wall and Slab

Section (B-B)





NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Shear Wall Details

Supervisor :

Eng. Sufian Al-Turk

SCALE:

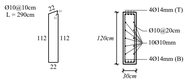
1/50

S58

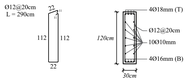
Shear Wall (25)

Spandrel Sections

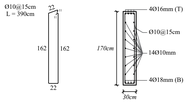
Section (3-3)

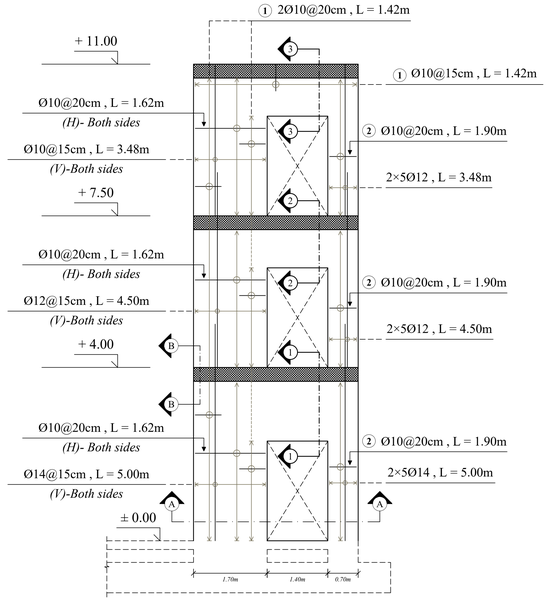


Section (2-2)

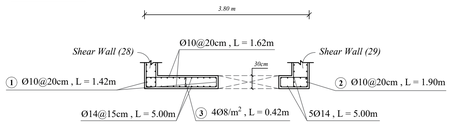


Section (1-1)

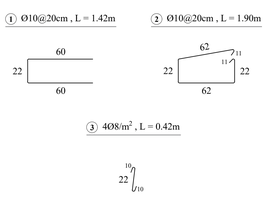




Section (A-A)

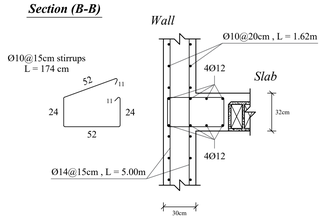


U - Hook & S - Hook Details



Connection between Wall and Slab

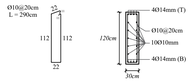
Section (B-B)



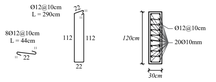
Shear Wall (26)

Spandrel Sections

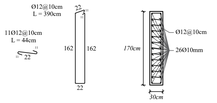
Section (3-3)



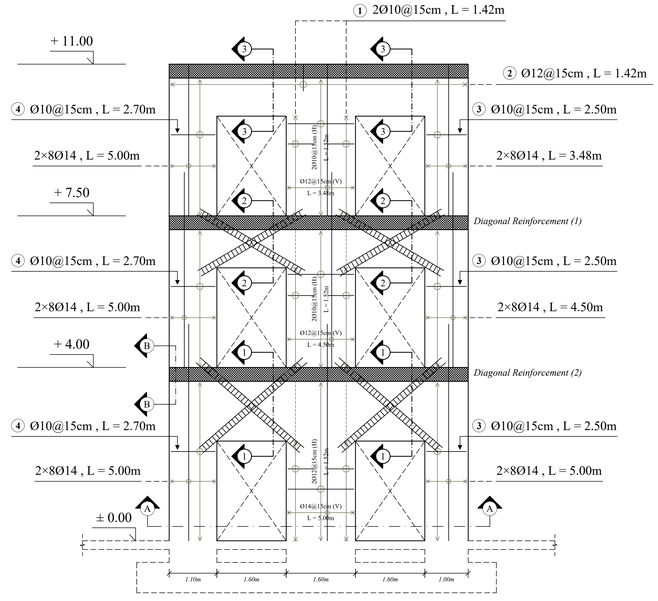
Section (2-2)



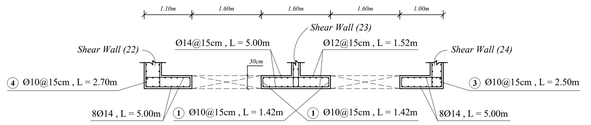
Section (1-1)



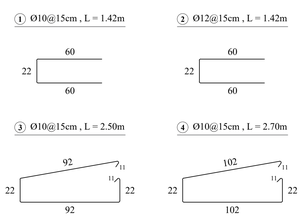
Diagonal Reinforcement Sections



Section (A-A)

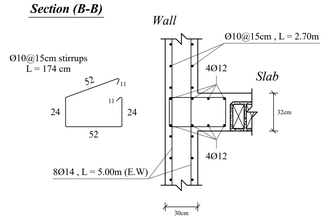


U - Hook & Stirrups Details



Connection between Wall and Slab

Section (B-B)



N

NOTES:

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All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Shear Wall Details

Supervisor :

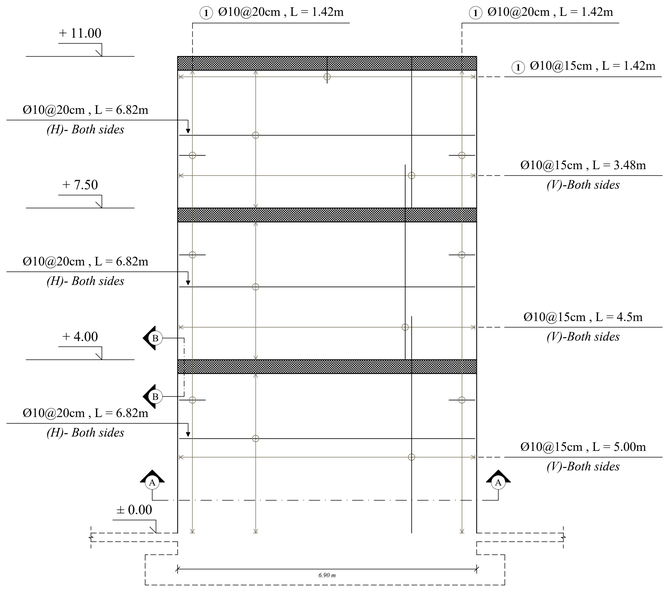
Eng. Sufian Al-Turk

SCALE:

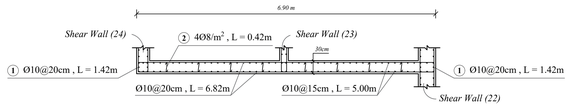
1/50

S59

Shear Wall (27)



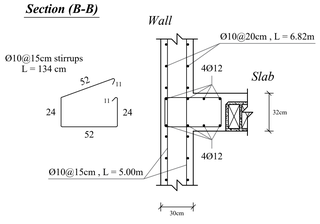
Section (A-A)



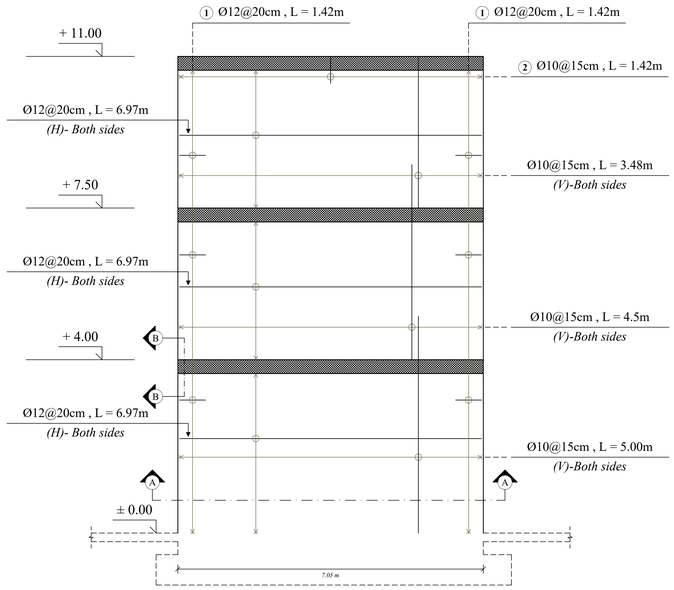
U - Hook & S - Hook Details

Connection between Wall and Slab

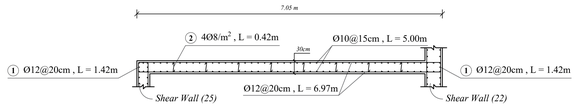
Section (B-B)



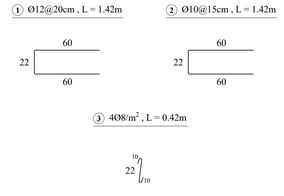
Shear Wall (28)



Section (A-A)

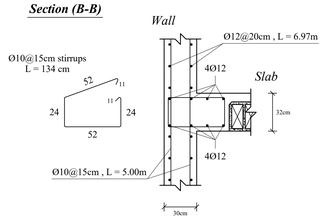


U - Hook & S - Hook Details



Connection between Wall and Slab

Section (B-B)



NOTES:

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All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Shear Wall Details

Supervisor :

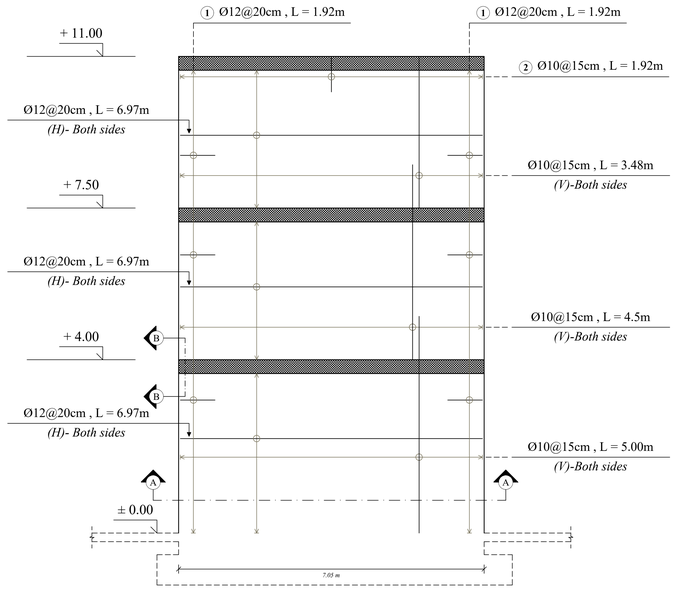
Eng. Sufian Al-Turk

SCALE:

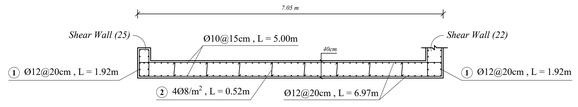
1/50

S60

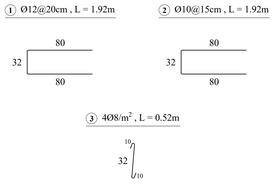
Shear Wall (29)



Section (A-A)

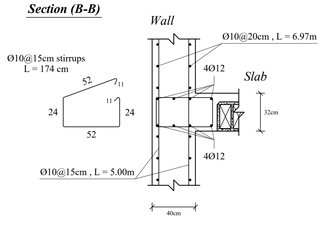


U - Hook & S - Hook Details



Connection between Wall and Slab

Section (B-B)



NOTES:

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All spot levels are in meters.

N

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Shear Wall Details

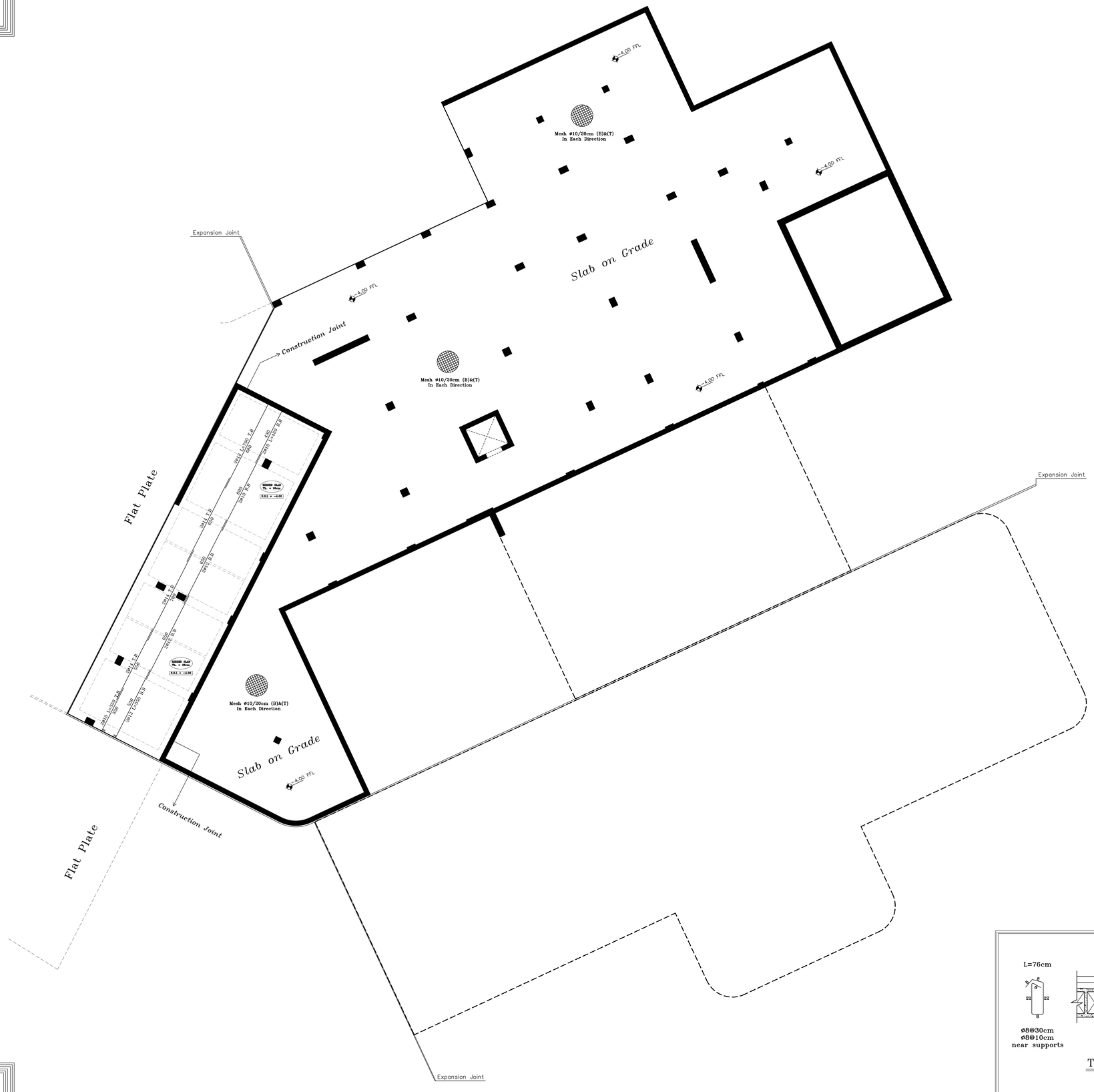
Supervisor :

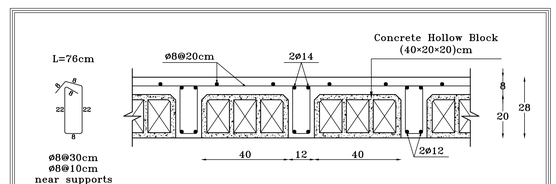
Eng. Sufian Al-Turk

SCALE:

1/50

S61





TYPICAL SECTION IN RIBBED SLAB
SCALE 1:10

N

NOTES:

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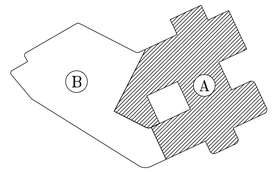
All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) Slab Reinforcement
Basement (-2) Floor

Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/100

S62

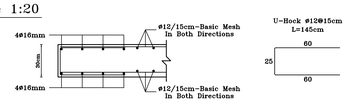
Bottom Reinforcement – Additional to Basic Mesh of ø12/15cm

Section (a-a)

Scale 1:20

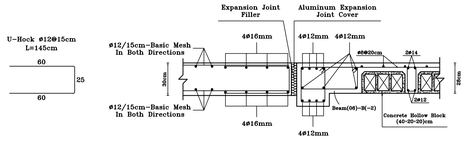
Section (A-A)

Scale 1:20



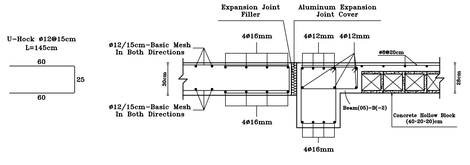
Section (B-B)

Scale 1:20



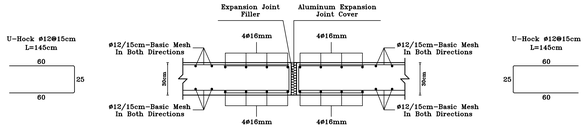
Section (C-C)

Scale 1:20



Section (D-D)

Scale 1:20



N

NOTES:

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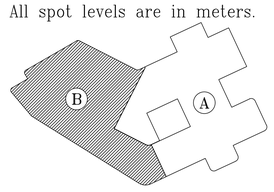
All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (B) Slab Reinforcement
Ground Floor - Bottom Rein.

Supervisor :

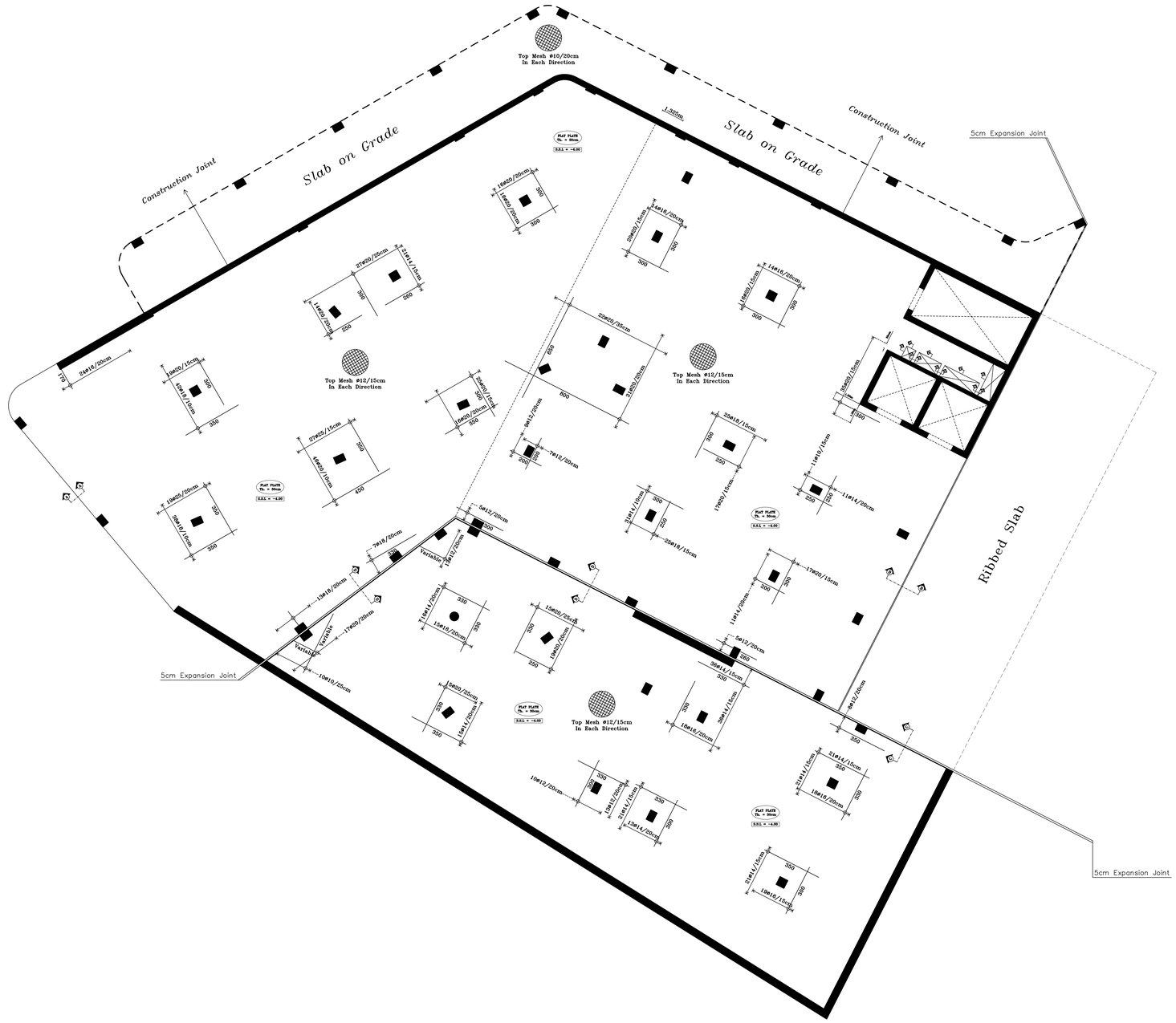
Eng. Sufian Al-Turk

SCALE:

1/100

S63

Top Reinforcement – Additional to Basic Mesh of ø12/15cm



Palestine Polytechnic University
Civil. & Arch. Eng. Department
Building Engineering

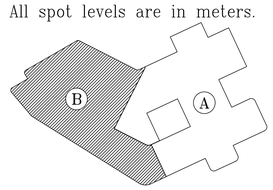
Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Drawing Title :

Part (B) Slab Reinforcement
Ground Floor - Top Rein.

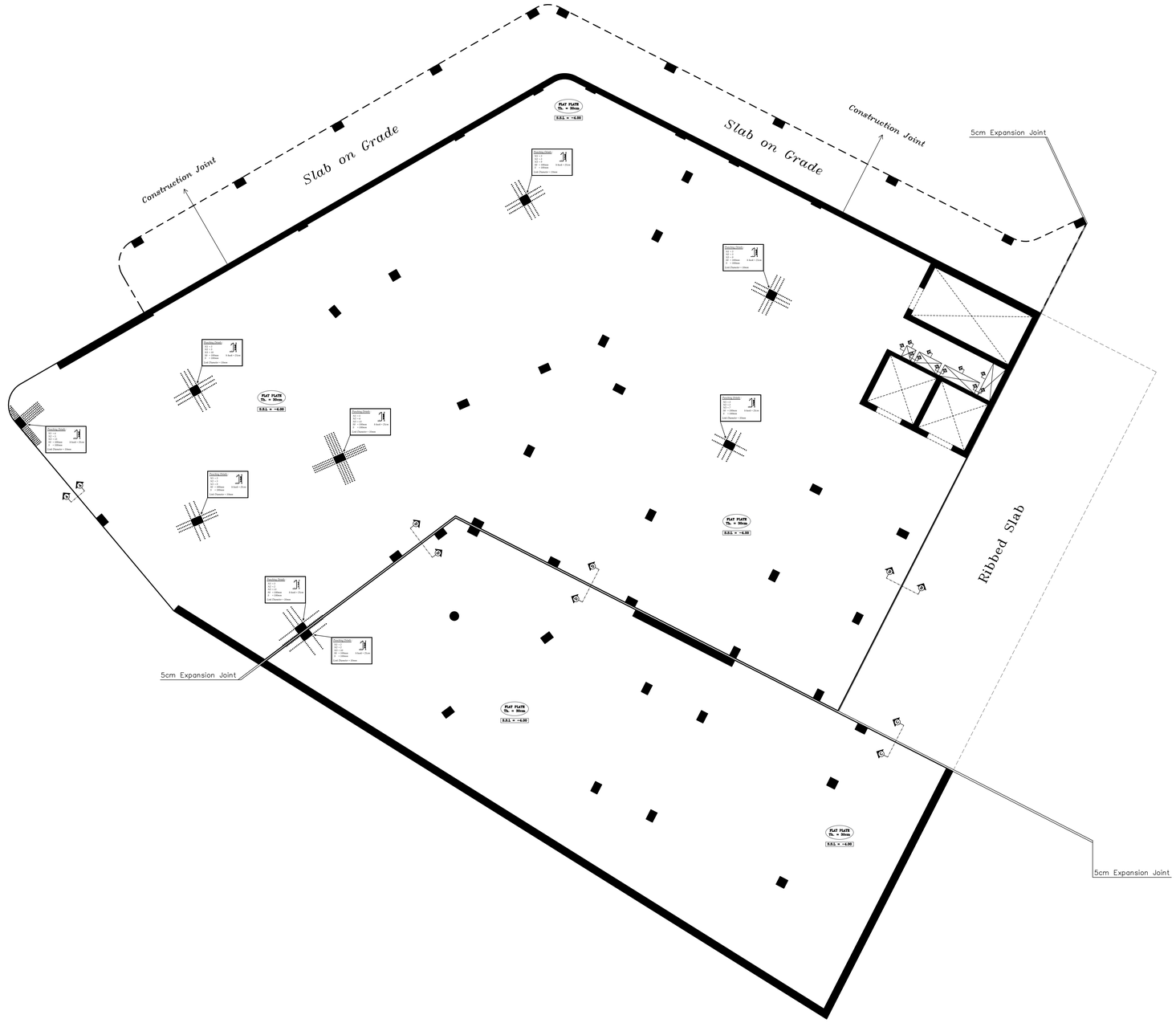
Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/100

S64

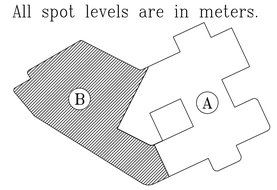


N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (B) Slab Reinforcement Ground Floor - Punching Rein.

Supervisor :

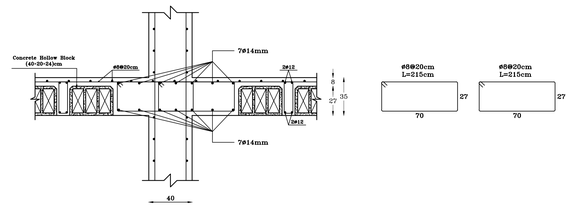
Eng. Sufian Al-Turk

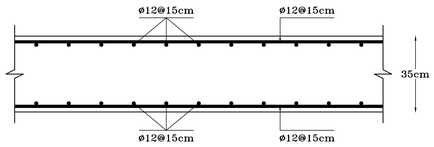
SCALE:

1/100

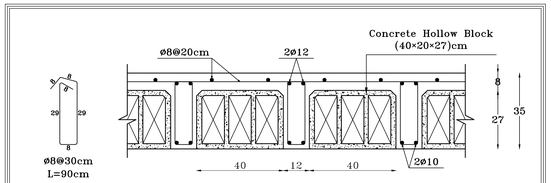
S65

SECTION (1-1)
SCALE 1:20

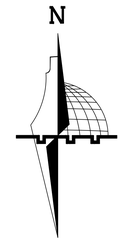




SECTION (2-2) IN SOLID SLAB
SCALE 1:10



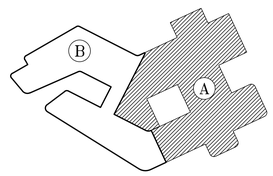
TYPICAL SECTION IN RIBBED SLAB
SCALE 1:10



NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) Slab Reinforcement Basement (-1) Floor

Supervisor :

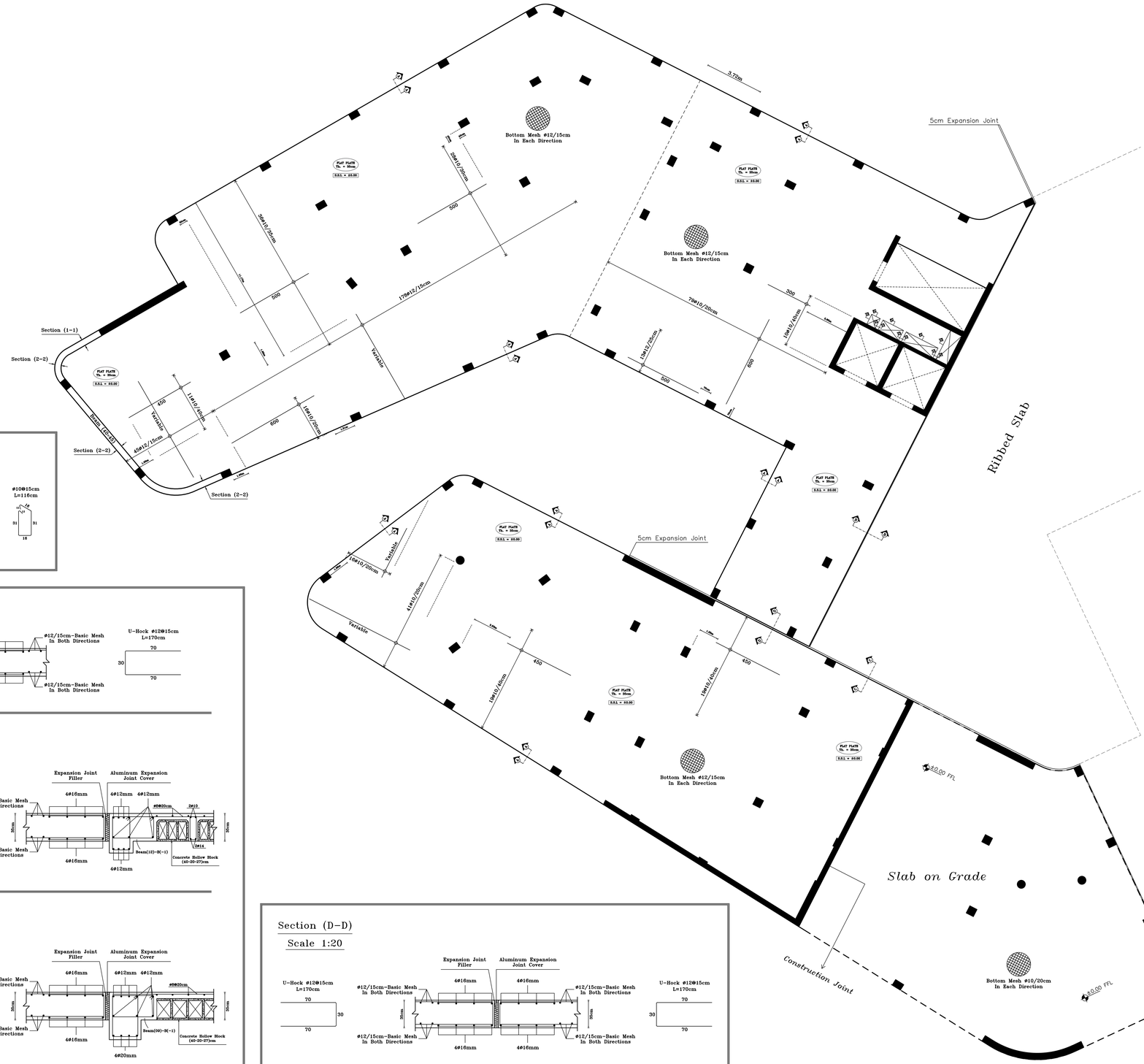
Eng. Sufian Al-Turk

SCALE:

1/100

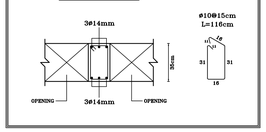
S66

Bottom Reinforcement - Additional to Basic Mesh of ø12/15cm



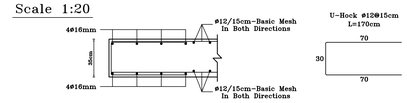
Section (a-a)

Scale 1:20



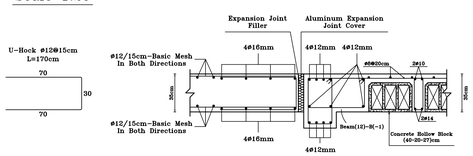
Section (A-A)

Scale 1:20



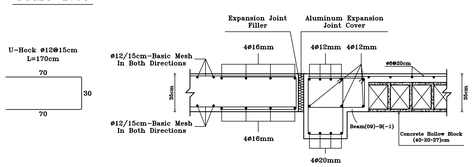
Section (B-B)

Scale 1:20



Section (C-C)

Scale 1:20



Section (D-D)

Scale 1:20

Palestine Polytechnic University

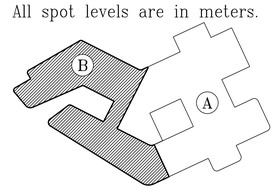
رابطة الجامعيين - الخليل

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (B) Slab Reinforcement Basement (-1) - Bottom Rein.

Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/100

S67

Top Reinforcement – Additional to Basic Mesh of ø12/15cm

BEAMS SECTIONS

Section (1-1)
Scale 1:20

Section (2-2)
Scale 1:20

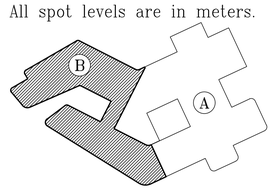
Palestine Polytechnic University
رابطة الجامعين - الخليل

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (B) Slab Reinforcement Basement (-1) - Top Rein.

Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/100

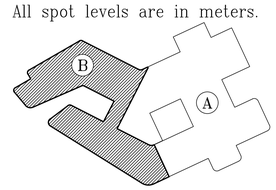
S68

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (B) Slab Reinforcement Basement (-1) - Punching Rein.

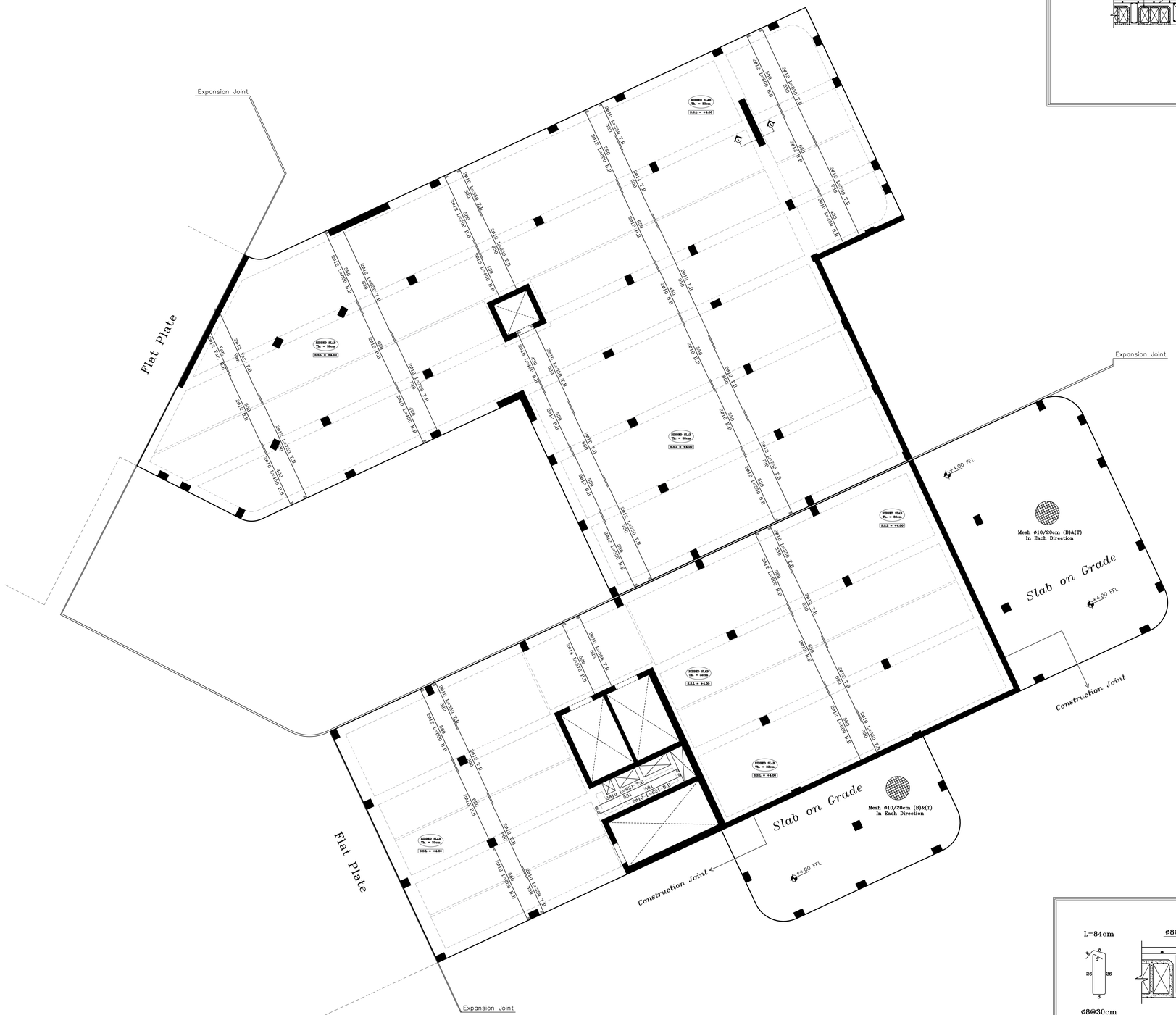
Supervisor :

Eng. Sufian Al-Turk

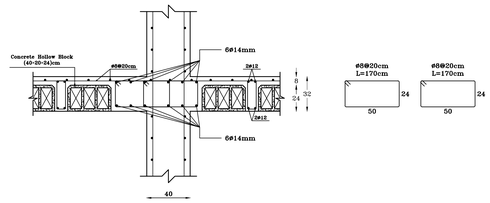
SCALE:
SCALE

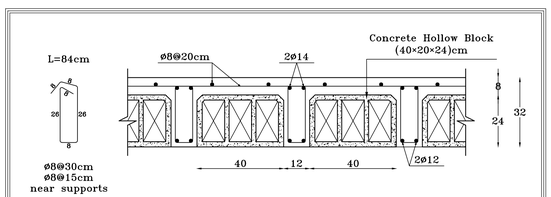
1/100

S69



SECTION (1-1)
SCALE 1:20



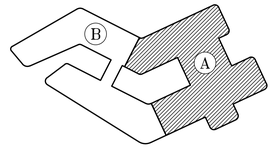


TYPICAL SECTION IN RIBBED SLAB
SCALE 1:10

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) Slab Reinforcement Ground Floor

Supervisor :

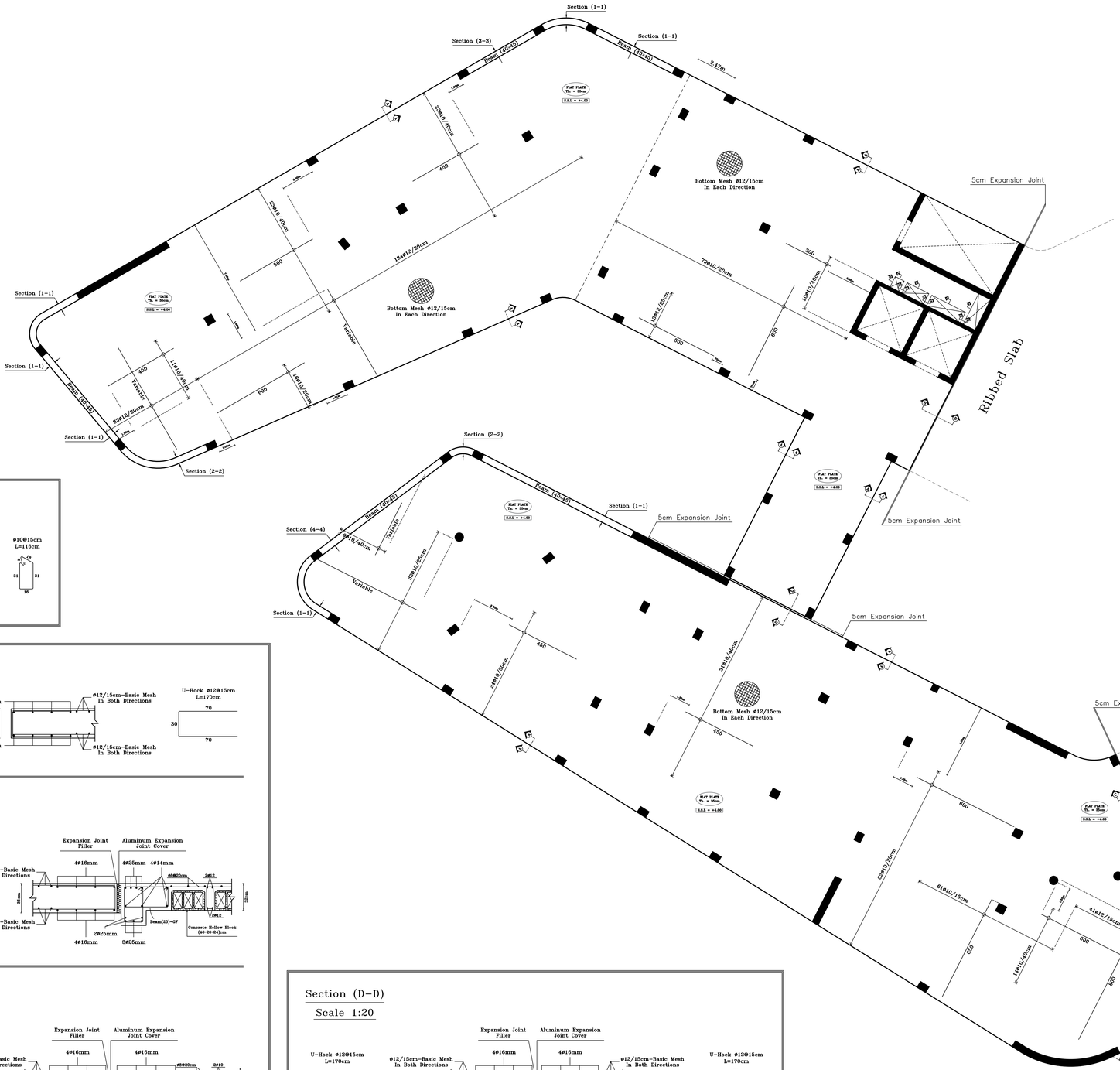
Eng. Sufian Al-Turk

SCALE:

1/100

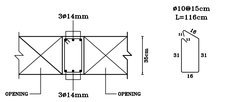
S70

Bottom Reinforcement – Additional to Basic Mesh of ø12/15cm



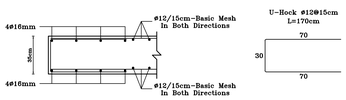
Section (a-a)

Scale 1:20



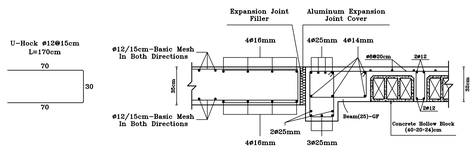
Section (A-A)

Scale 1:20



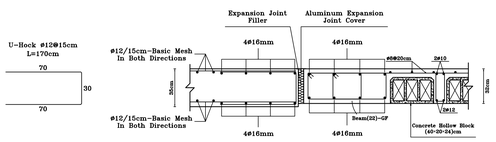
Section (B-B)

Scale 1:20



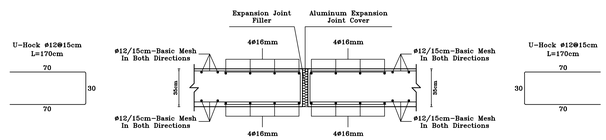
Section (C-C)

Scale 1:20



Section (D-D)

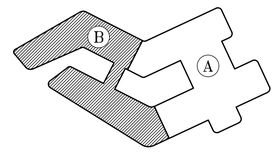
Scale 1:20



NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (B) Slab Reinforcement Ground Floor - Bottom Rein.

Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/100

S11

Top Reinforcement – Additional to Basic Mesh of ø12/15cm

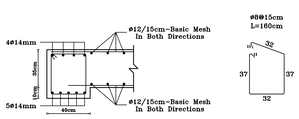
BEAMS SECTIONS

Section (1-1)
Scale 1:20

Section (2-2)
Scale 1:20

Section (3-3)
Scale 1:20

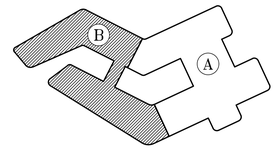
Section (4-4)
Scale 1:20



NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (B) Slab Reinforcement
Ground Floor - Top Rein.

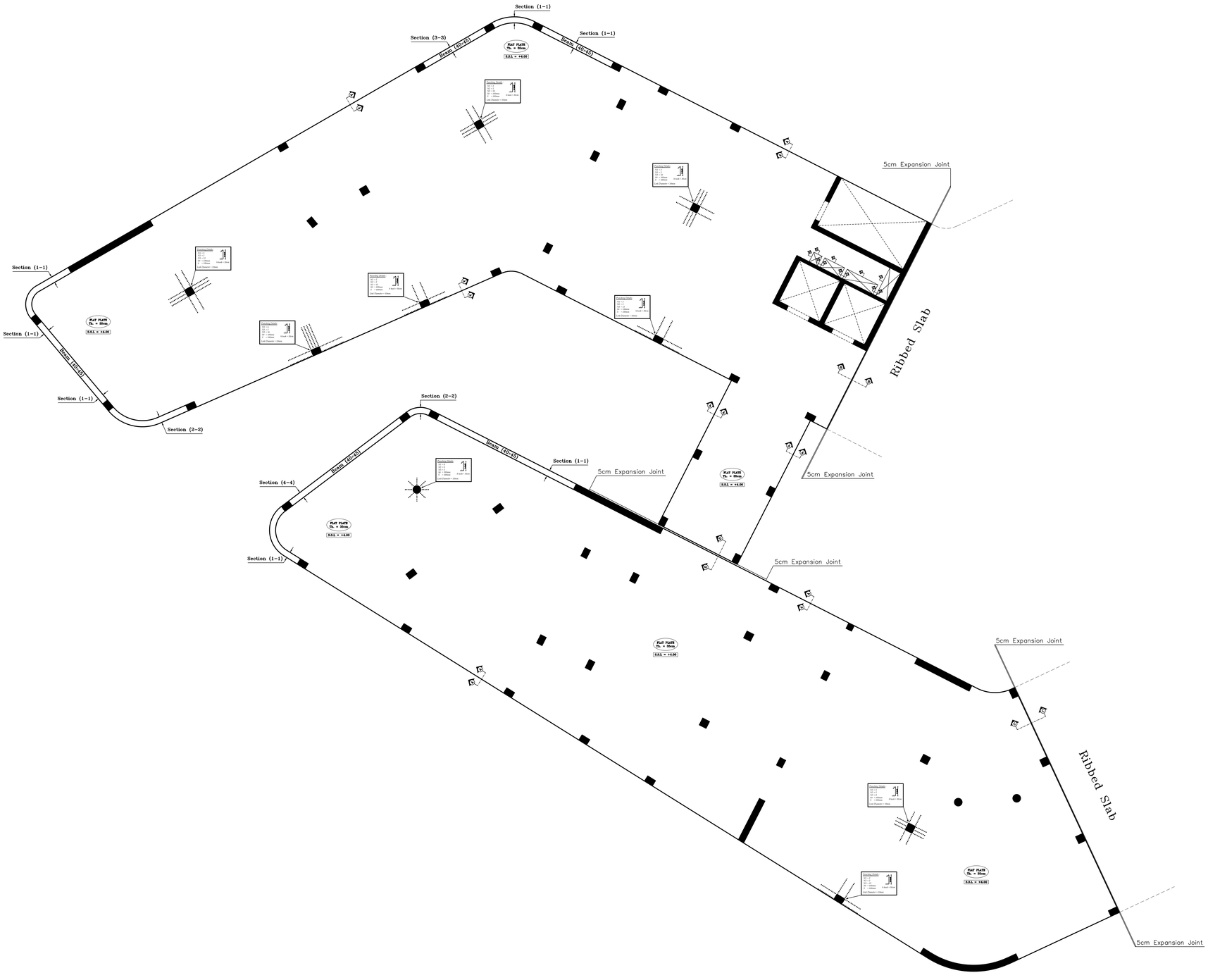
Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/100

S12

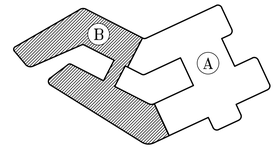


N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (B) Slab Reinforcement Ground Floor - Punching Rein.

Supervisor :

Eng. Sufian Al-Turk

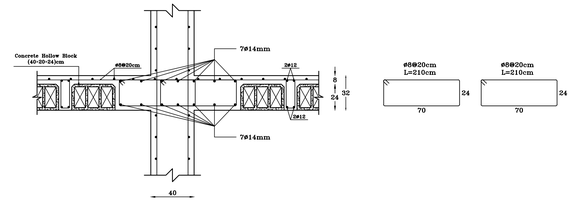
SCALE:

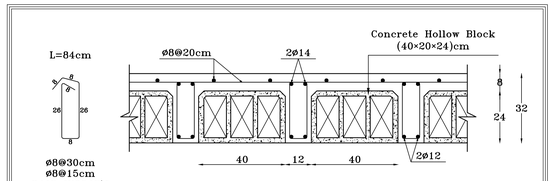
1/100

S13

SECTION (1-1)

SCALE 1:20





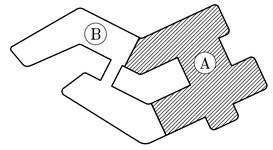
TYPICAL SECTION IN RIBBED SLAB

SCALE 1:10

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) Slab Reinforcement First Floor

Supervisor :

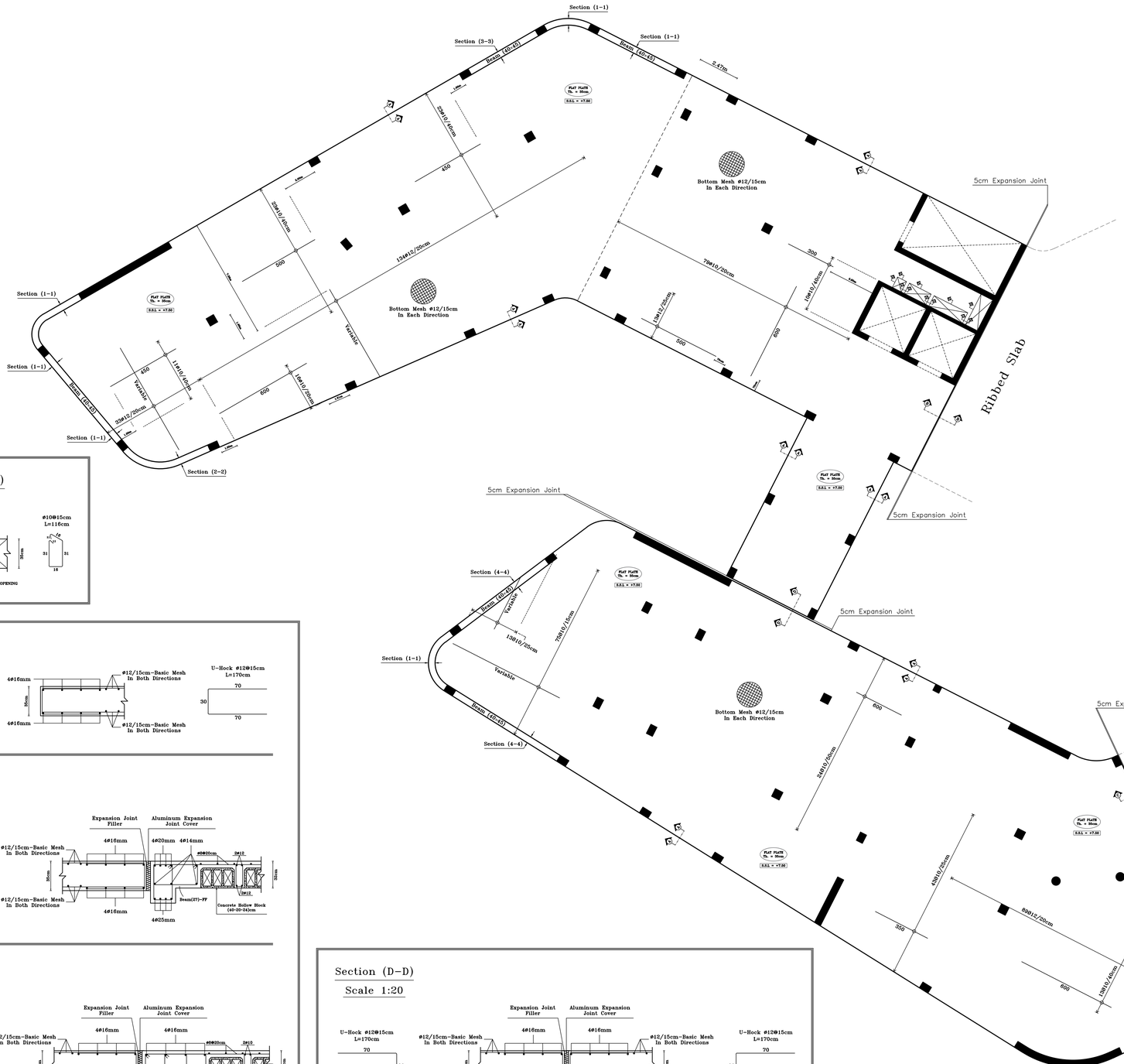
Eng. Sufian Al-Turk

SCALE:

1/100

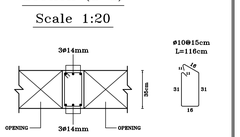
S14

Bottom Reinforcement – Additional to Basic Mesh of ø12/15cm



Section (a-a)

Scale 1:20

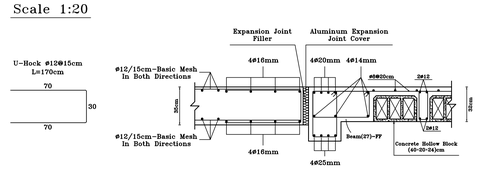


Section (A-A)

Scale 1:20

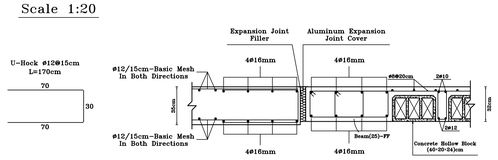
Section (B-B)

Scale 1:20



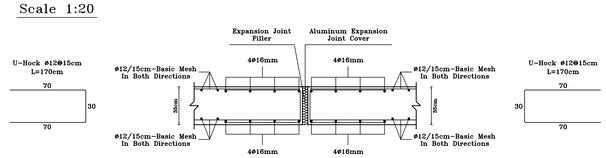
Section (C-C)

Scale 1:20



Section (D-D)

Scale 1:20



Palestine Polytechnic University

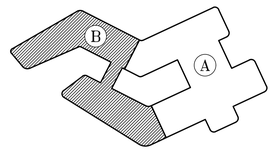
رابطة الجامعين - الخليل

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (B) Slab Reinforcement
First Floor - Bottom Rein.

Supervisor :

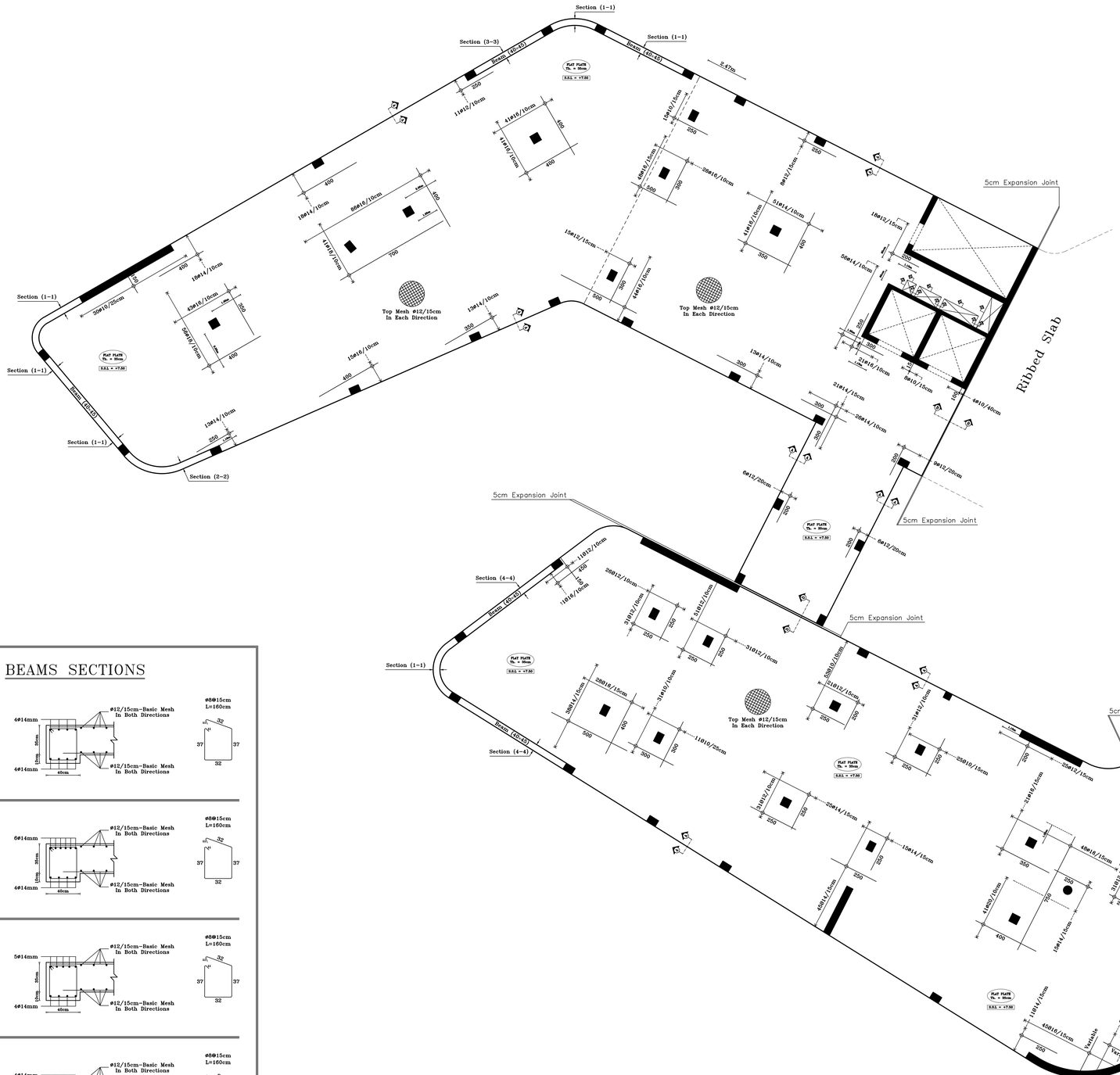
Eng. Sufian Al-Turk

SCALE:

1/100

S7S

Top Reinforcement – Additional to Basic Mesh of ø12/15cm



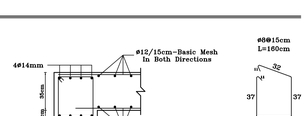
BEAMS SECTIONS

Section (1-1)
Scale 1:20

Section (2-2)
Scale 1:20

Section (3-3)
Scale 1:20

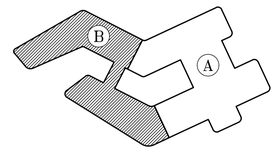
Section (4-4)
Scale 1:20



NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (B) Slab Reinforcement
First Floor - Top Rein.

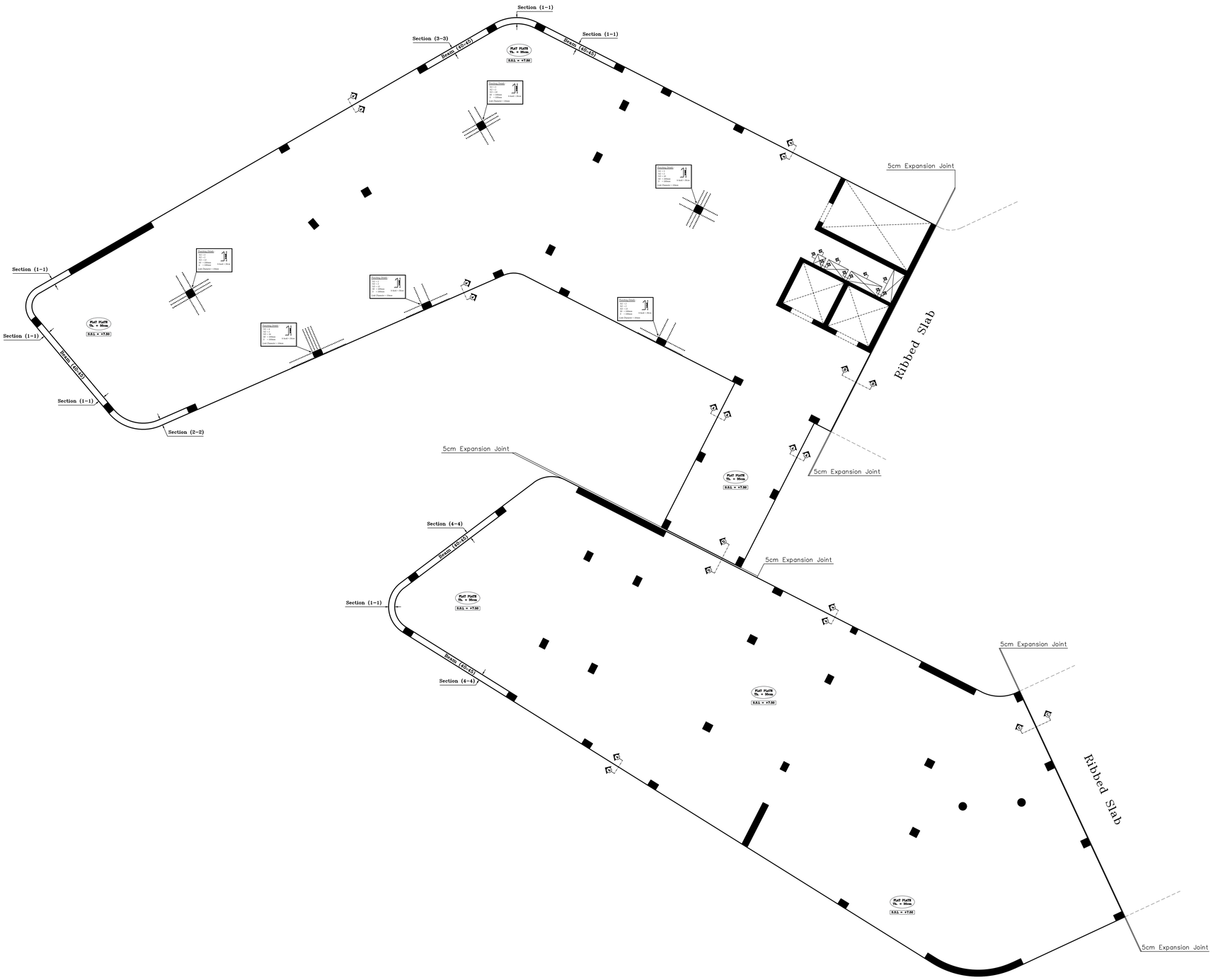
Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/100

576

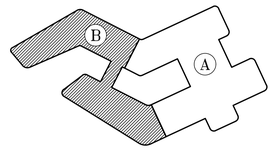


N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

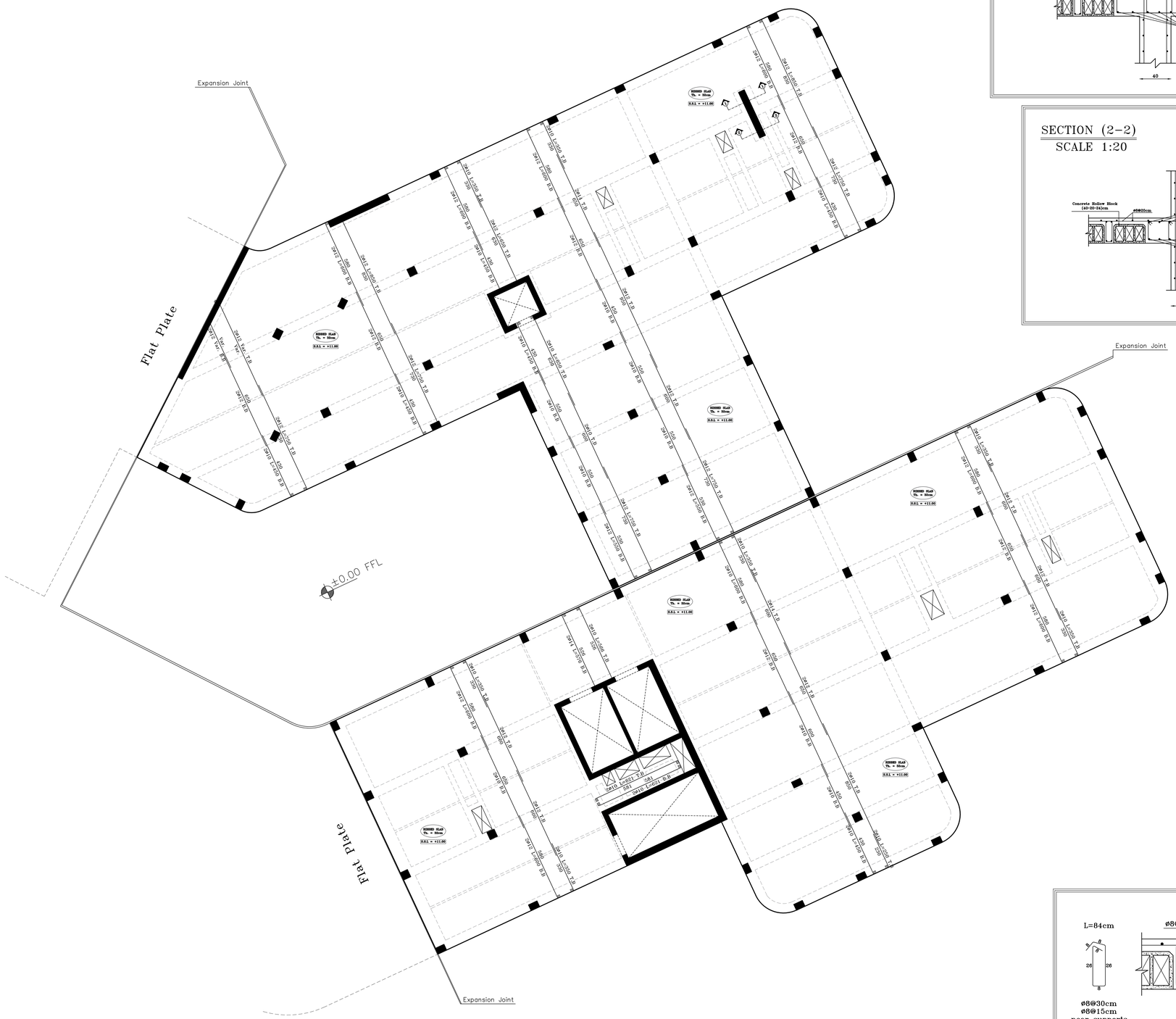
Part (B) Slab Reinforcement
First Floor - Punshing Rein.

Supervisor :

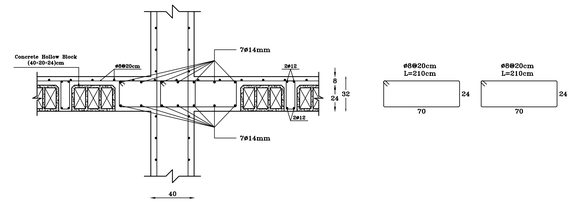
Eng. Sufian Al-Turk

SCALE:

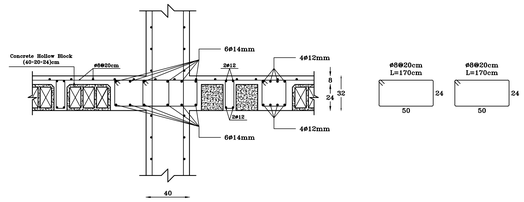
1/100

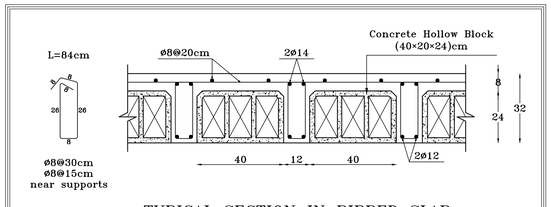


SECTION (1-1)
SCALE 1:20



SECTION (2-2)
SCALE 1:20



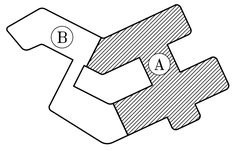


TYPICAL SECTION IN RIBBED SLAB
SCALE 1:10

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) Slab Reinforcement Second Floor

Supervisor :

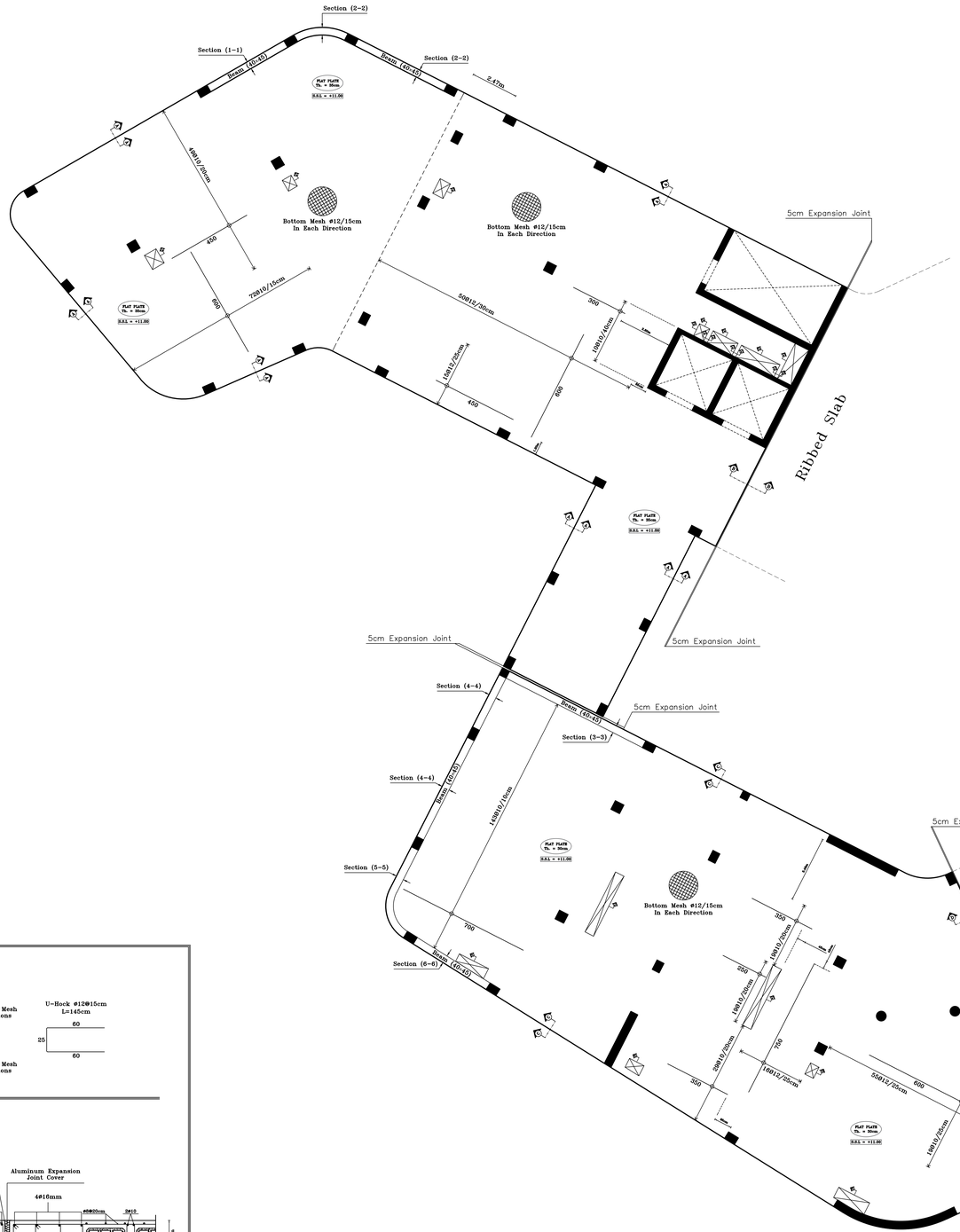
Eng. Sufian Al-Turk

SCALE:

1/100

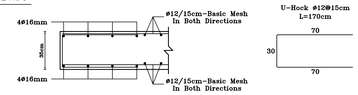
S78

Bottom Reinforcement – Additional to Basic Mesh of ø12/15cm



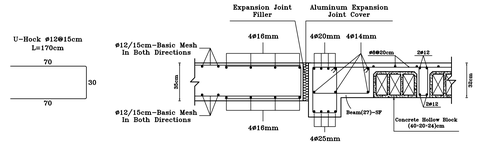
Section (A-A)

Scale 1:20



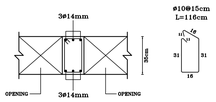
Section (B-B)

Scale 1:20



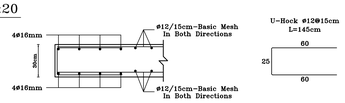
Section (a-a)

Scale 1:20



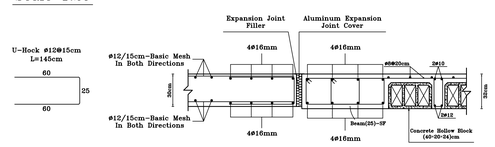
Section (C-C)

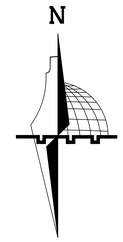
Scale 1:20



Section (D-D)

Scale 1:20

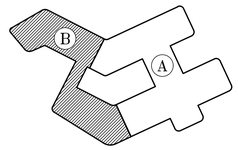




NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (B) Slab Reinforcement
Second Floor - Bottom Rein.

Supervisor :

Eng. Sufian Al-Turk

SCALE:

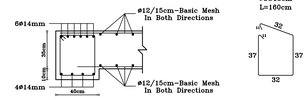
1/100

S19

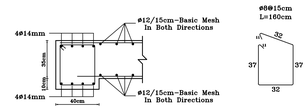
Top Reinforcement – Additional to Basic Mesh of ø12/15cm

BEAMS SECTIONS

Section (1-1)
Scale 1:20

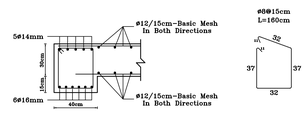


Section (2-2)
Scale 1:20

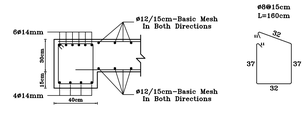


BEAMS SECTIONS

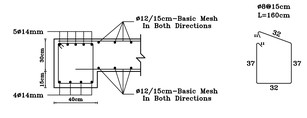
Section (3-3)
Scale 1:20



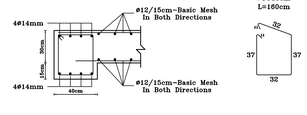
Section (4-4)
Scale 1:20



Section (5-5)
Scale 1:20



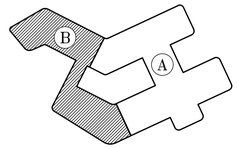
Section (6-6)
Scale 1:20



NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (B) Slab Reinforcement
Second Floor - Top Rein.

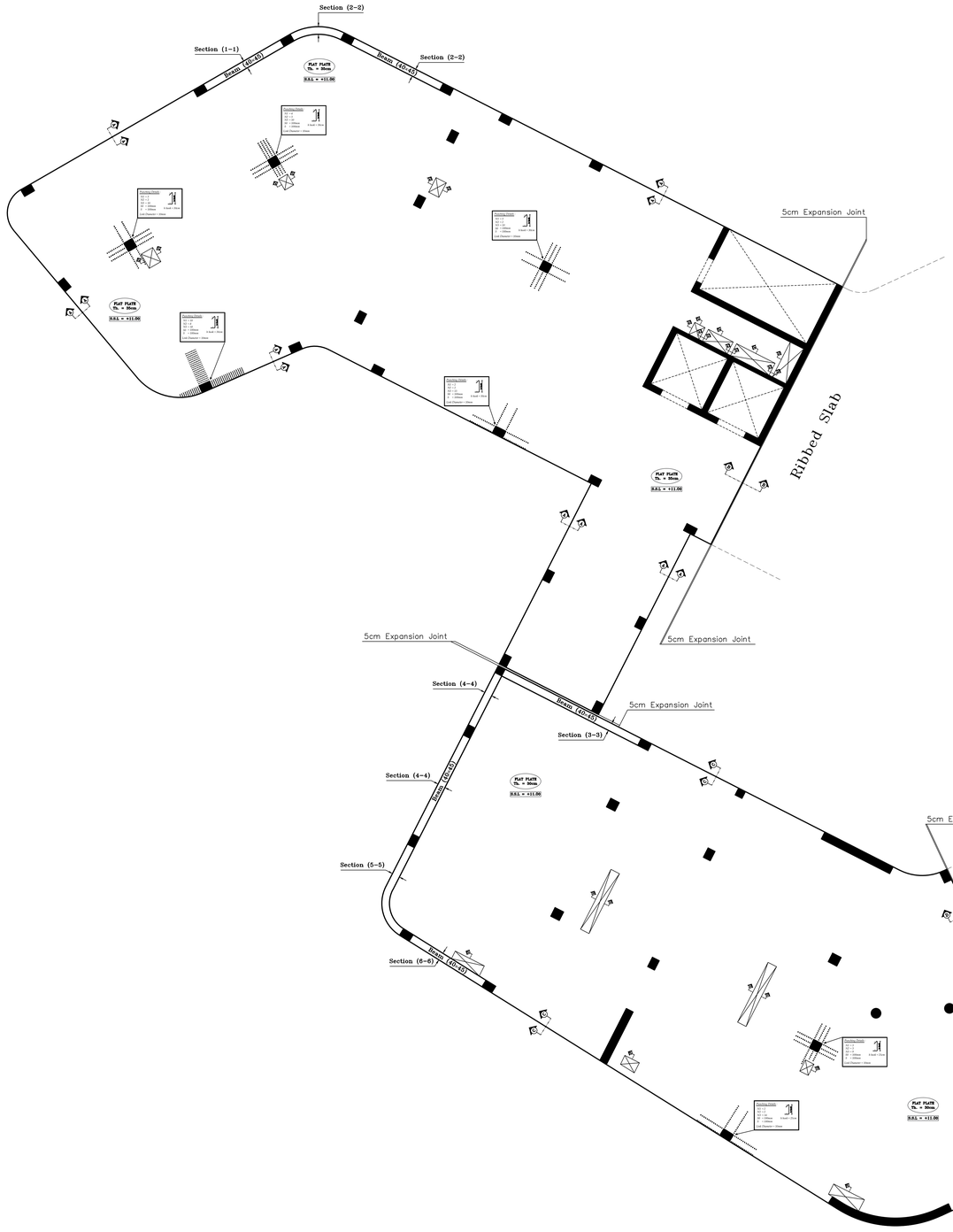
Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/100

S80



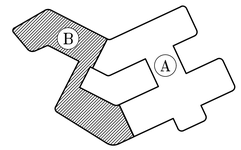
Palestine Polytechnic University
جامعة فلسطين التقنية
رابطة الجامعيين - الخليل

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (B) Slab Reinforcement
Second Floor - Punching Rein.

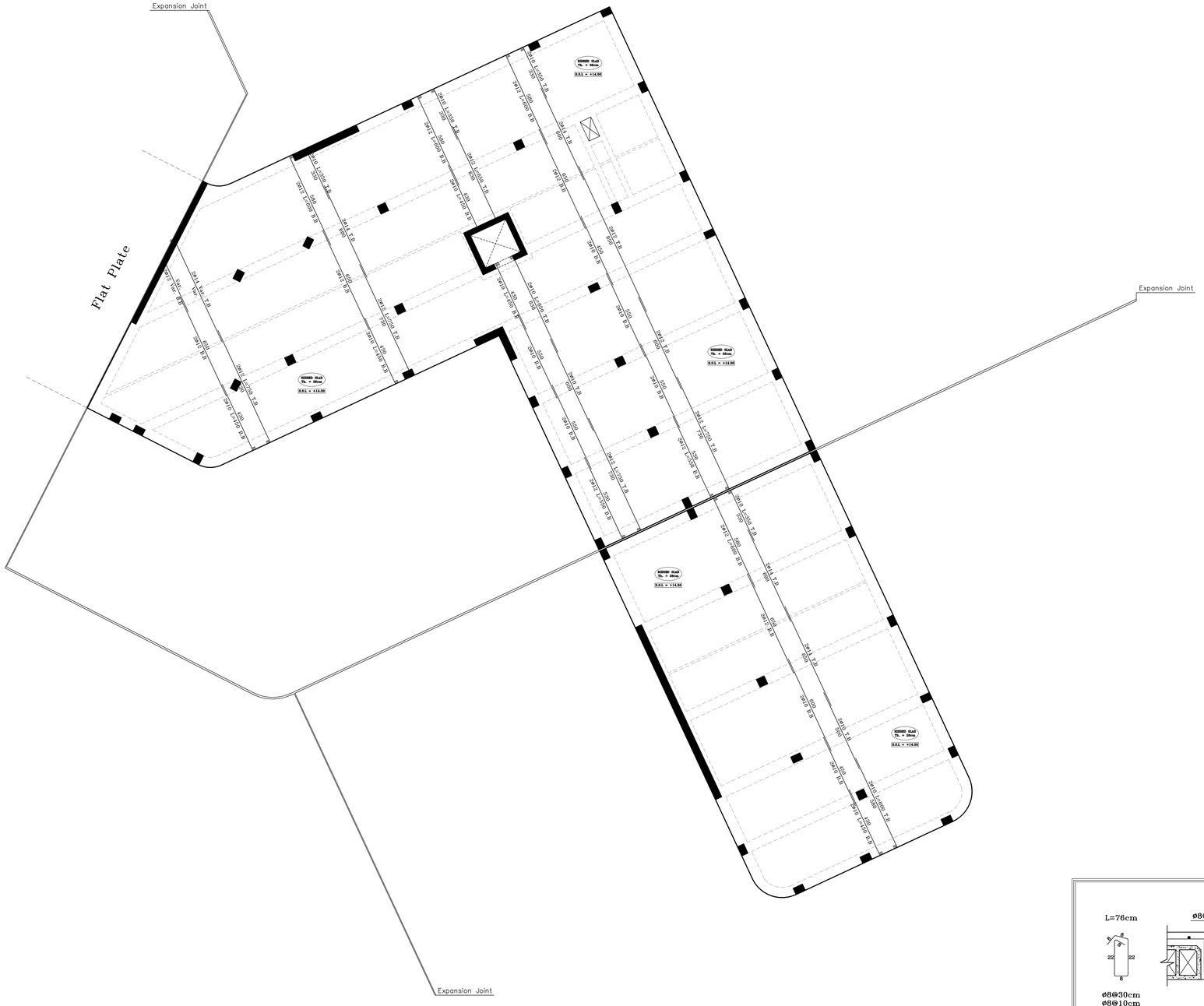
Supervisor :

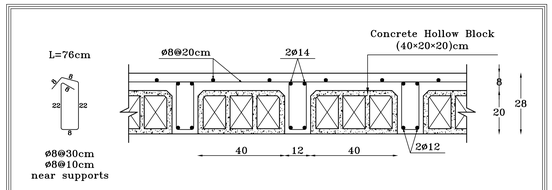
Eng. Sufian Al-Turk

SCALE:

1/100

S81



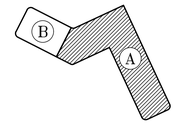


TYPICAL SECTION IN RIBBED SLAB
SCALE 1:10

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) Slab Reinforcement
Third Floor

Supervisor :

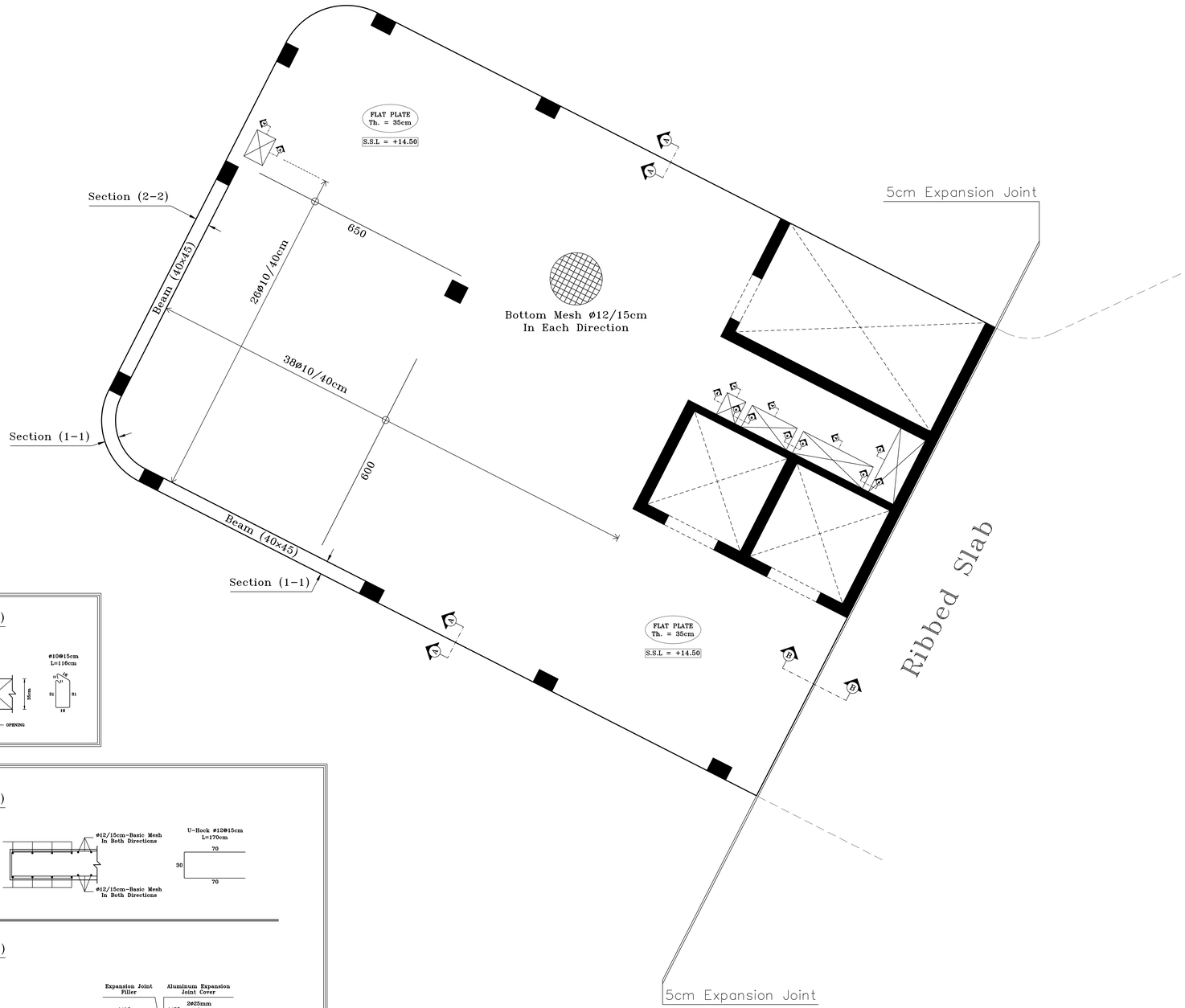
Eng. Sufian Al-Turk

SCALE:

1/100

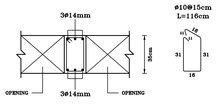
S82

Bottom Reinforcement – Additional to Basic Mesh of ø12/15cm



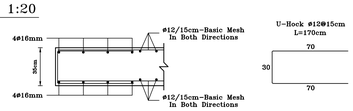
Section (a-a)

Scale 1:20



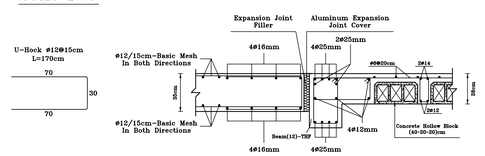
Section (A-A)

Scale 1:20



Section (B-B)

Scale 1:20



NOTES:

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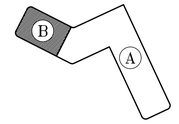
All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (B) Slab Reinforcement
Third Floor - Bottom Rein.

Supervisor :

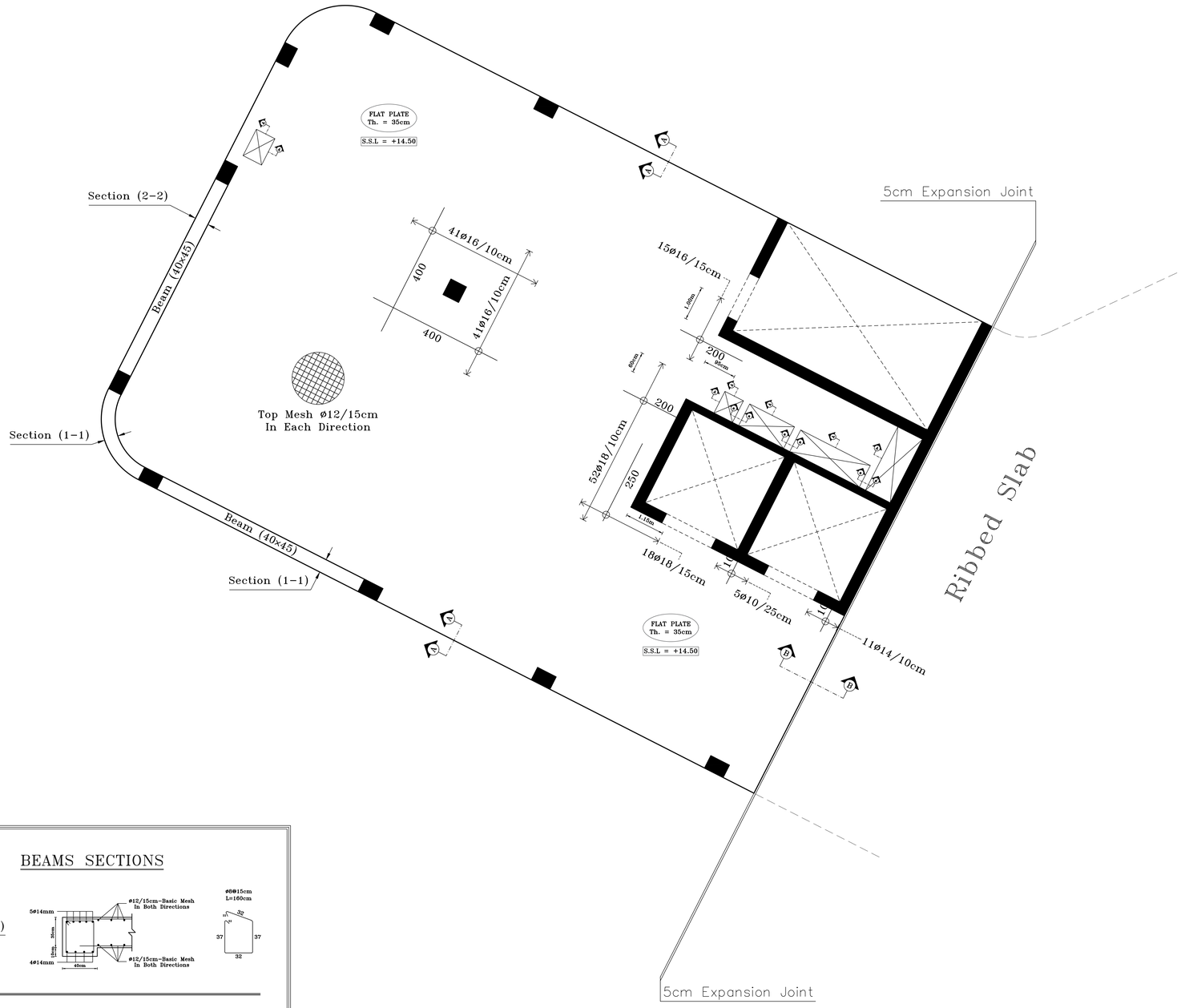
Eng. Sufian Al-Turk

SCALE:

1/50

S83

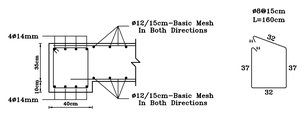
Top Reinforcement – Additional to Basic Mesh of ø12/15cm



BEAMS SECTIONS

Section (1-1)
Scale 1:20

Section (2-2)
Scale 1:20

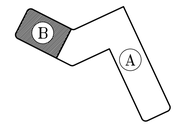


N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (B) Slab Reinforcement
Third Floor - Top Rein.

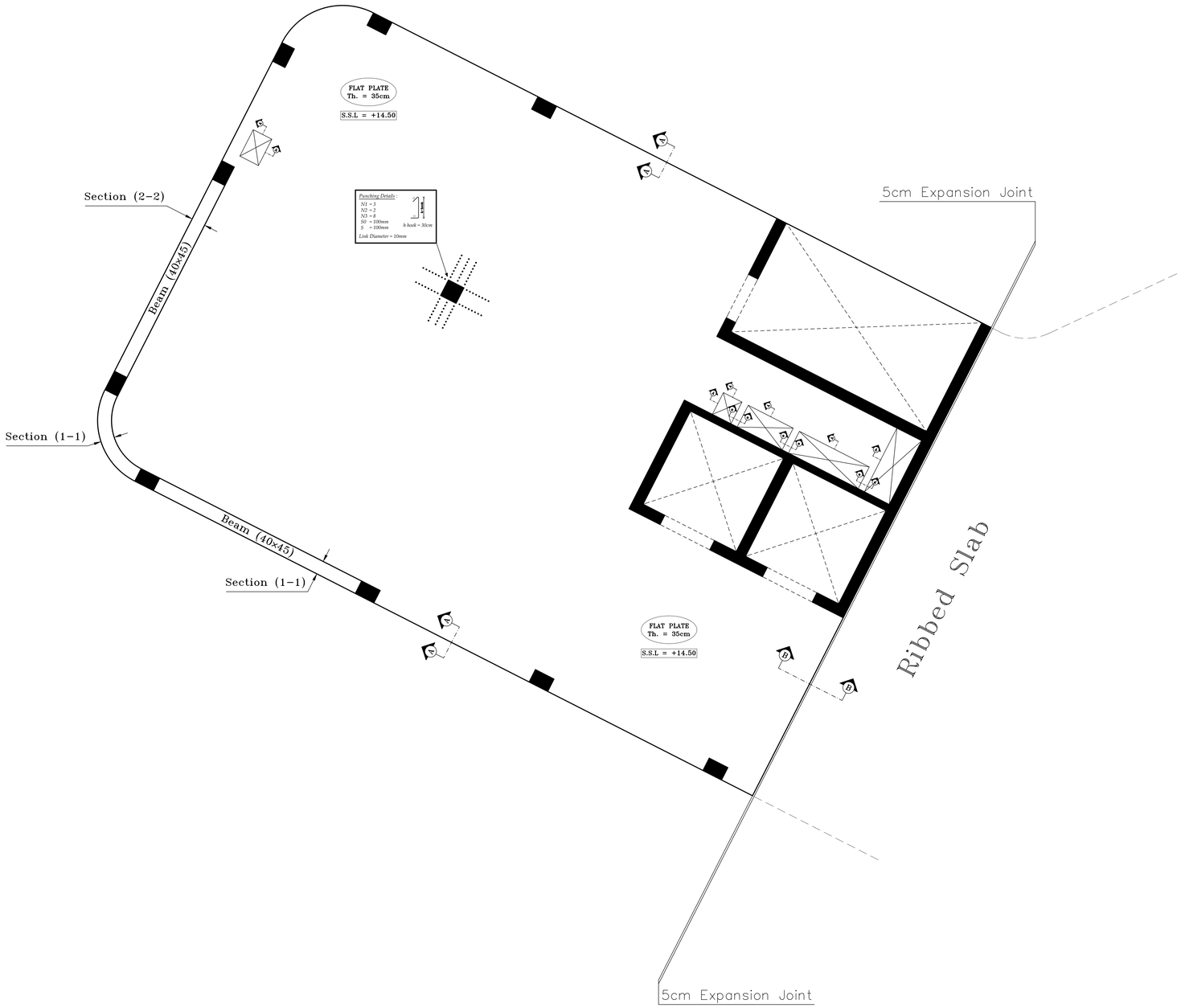
Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/50

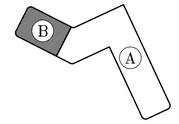
S84



NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (B) Slab Reinforcement
Third Floor - Punching Rein.

Supervisor :

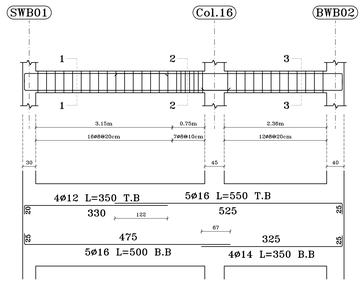
Eng. Sufian Al-Turk

SCALE:

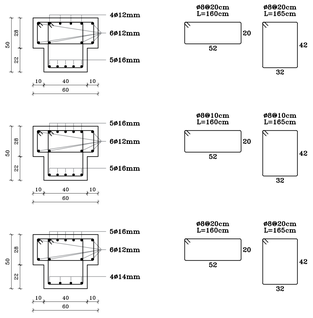
1/50

S85

Beam (01) – Basement (-2)



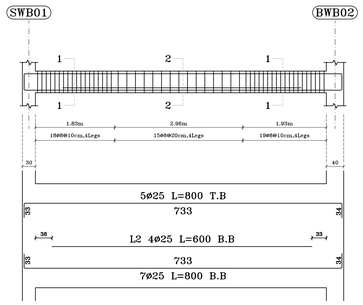
Section (1-1)
Scale 1:20



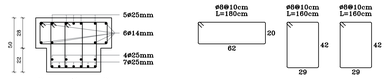
Section (2-2)
Scale 1:20

Section (3-3)
Scale 1:20

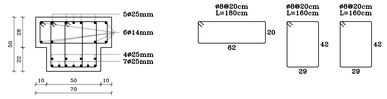
Beam (02) – Basement (-2)



Section (1-1)
Scale 1:20



Section (2-2)
Scale 1:20



Beam (03) – Basement (-2)

Section (1-1)
Scale 1:20

Section (2-2)
Scale 1:20

Beam (04) – Basement (-2)

Section (1-1)
Scale 1:20

Section (2-2)
Scale 1:20

Beam (05) – Basement (-2)

Section (1-1)
Scale 1:20

Section (2-2)
Scale 1:20

Beam (06) – Basement (-2)

Section (1-1)
Scale 1:20

Section (2-2)
Scale 1:20

Section (3-3)
Scale 1:20

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
Basement (-2) Floor

Supervisor :

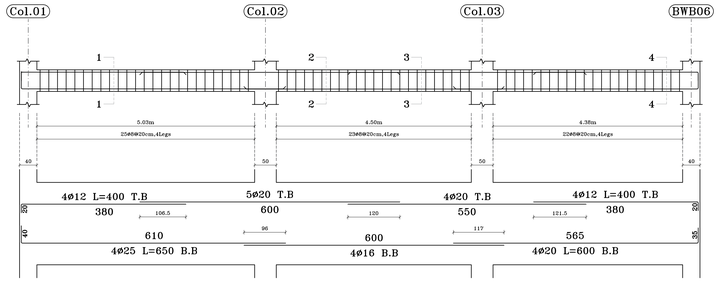
Eng. Sufian Al-Turk

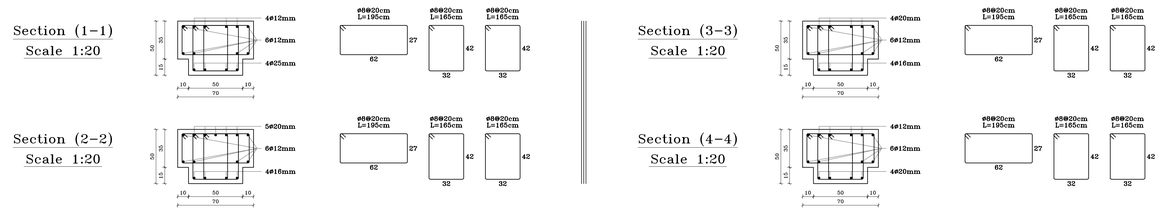
SCALE:

1/50

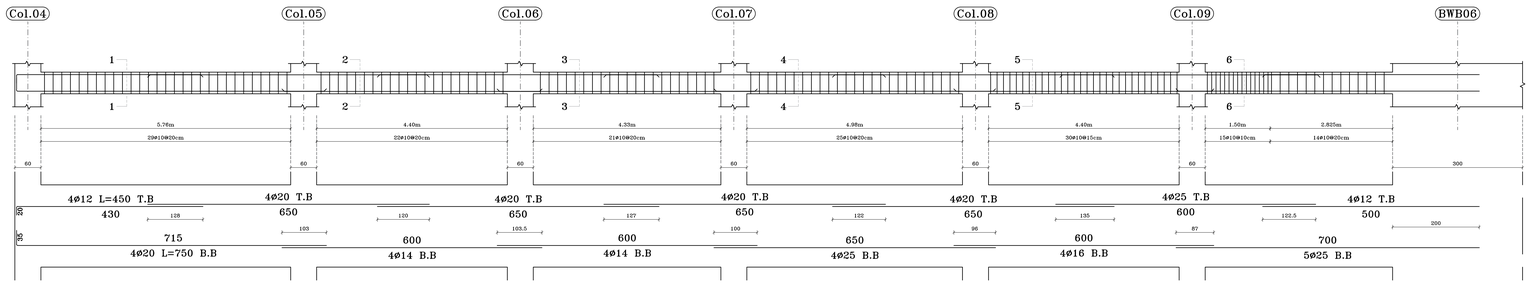
S86

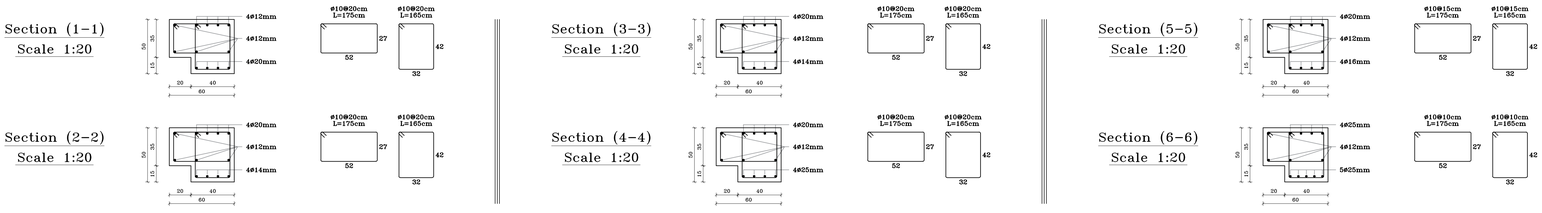
Beam (01) – Basement (–1)





Beam (02) – Basement (–1)



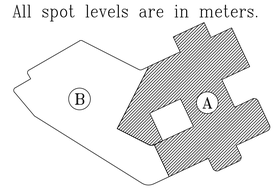


N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
Basement (-1) Floor

Supervisor :

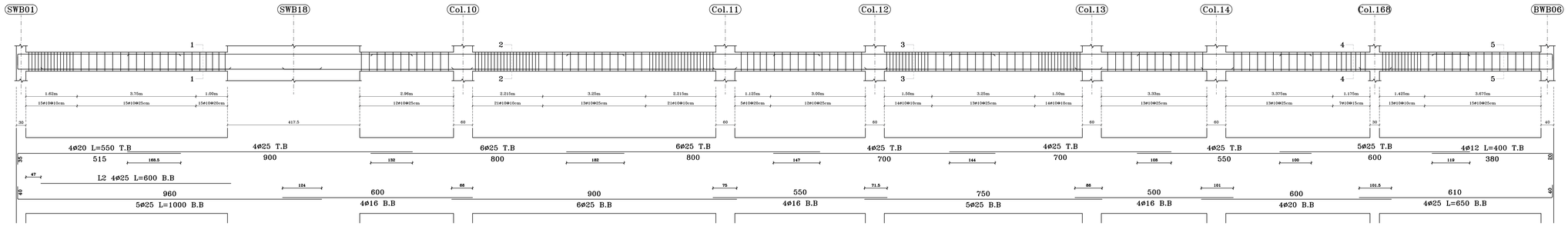
Eng. Sufian Al-Turk

SCALE:

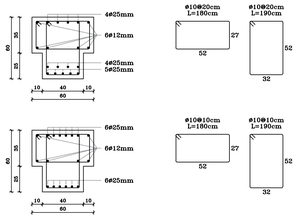
1/50

S87

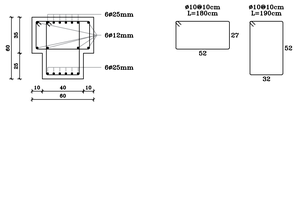
Beam (03) – Basement (–1)



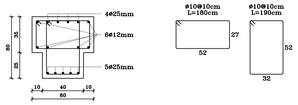
Section (1–1)
Scale 1:20



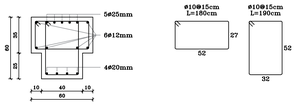
Section (2–2)
Scale 1:20



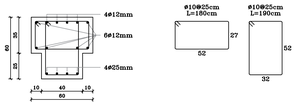
Section (3–3)
Scale 1:20



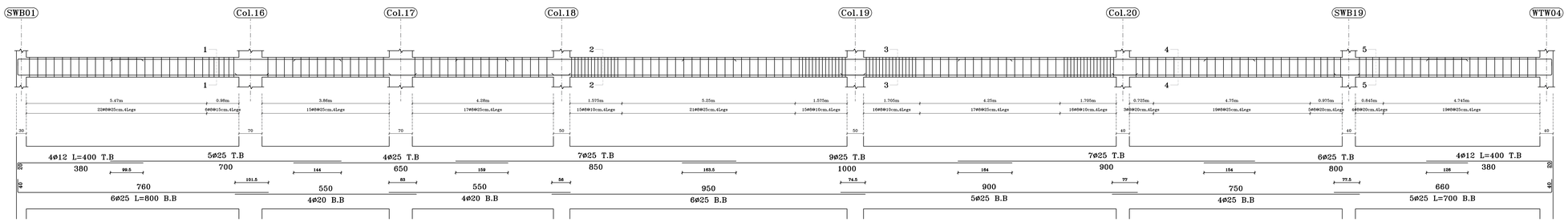
Section (4–4)
Scale 1:20



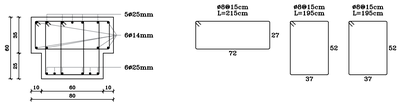
Section (5–5)
Scale 1:20



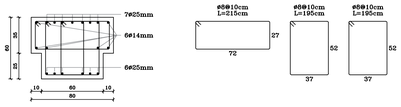
Beam (04) – Basement (–1)



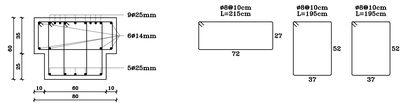
Section (1–1)
Scale 1:20



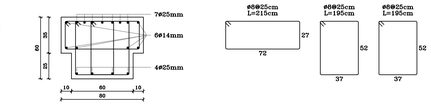
Section (2–2)
Scale 1:20



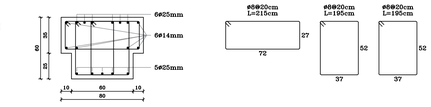
Section (3–3)
Scale 1:20



Section (4–4)
Scale 1:20



Section (5–5)
Scale 1:20



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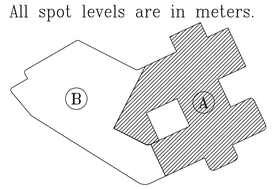
NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
Basement (-1) Floor

Supervisor :

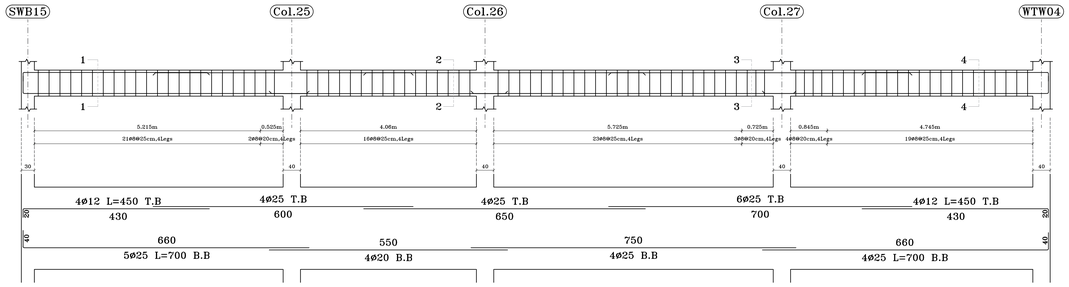
Eng. Sufian Al-Turk

SCALE:

1/50

S88

Beam (05) – Basement (–1)



Section (1–1)
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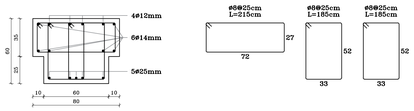
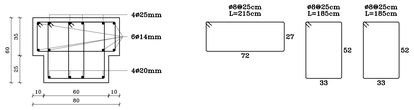


Section (2–2)
Scale 1:20



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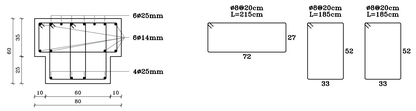
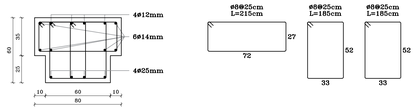
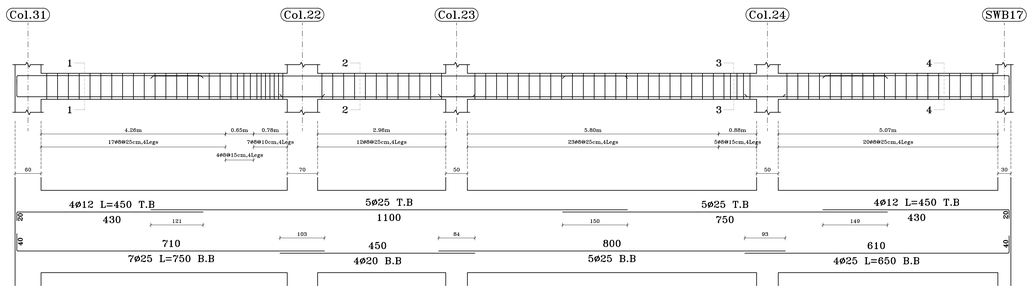


Section (4–4)
Scale 1:20



Beam (06) – Basement (–1)



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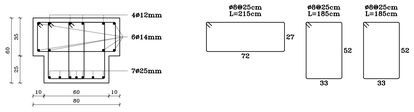
Scale 1:20



Section (2–2)
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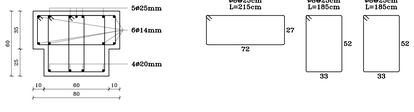
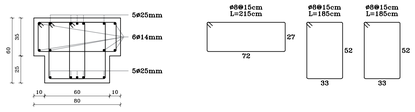


Section (3–3)
Scale 1:20



Section (4–4)
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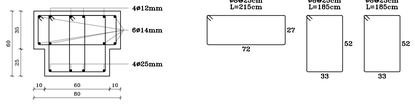
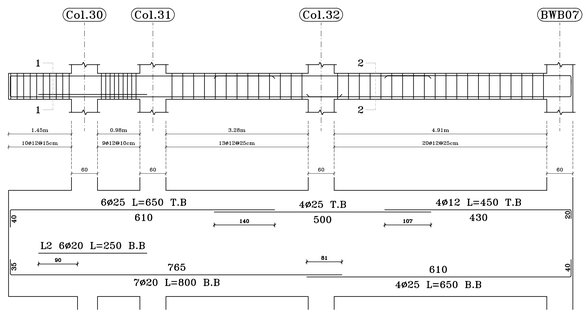
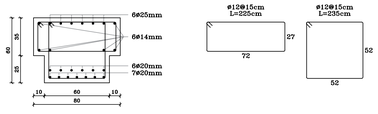


Beam (07) – Basement (–1)



Section (1–1)
Scale 1:20



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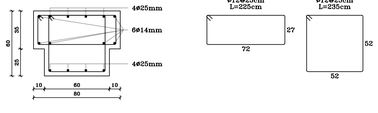

NOTES:

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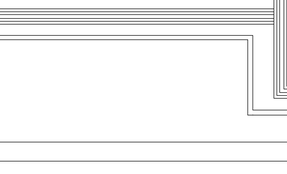
All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
Basement (-1) Floor

Supervisor :

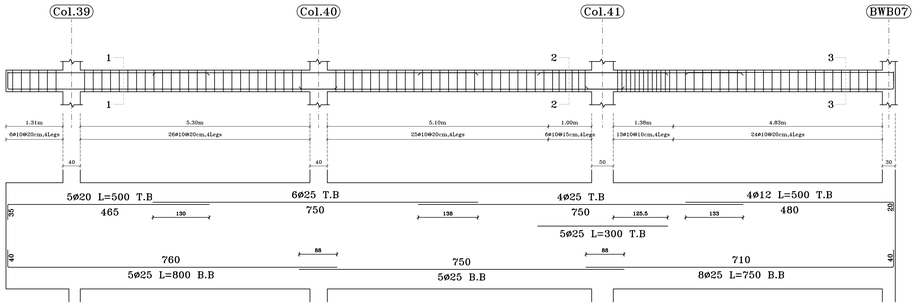
Eng. Sufian Al-Turk

SCALE:

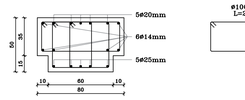
1/50

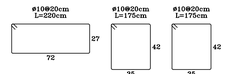
S89

Beam (08) – Basement (-1)

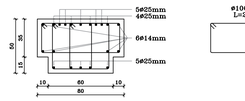


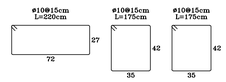
Section (1-1)
Scale 1:20



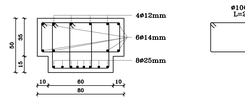


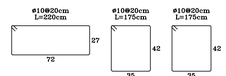
Section (2-2)
Scale 1:20



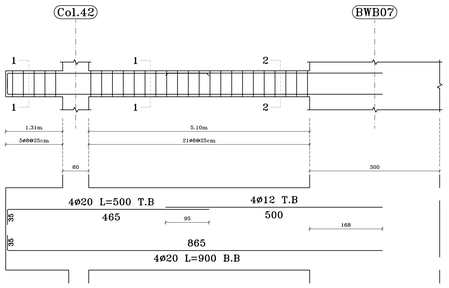


Section (3-3)
Scale 1:20

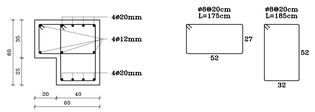




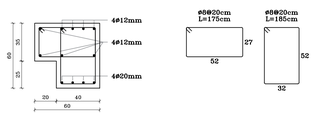
Beam (09) – Basement (-1)



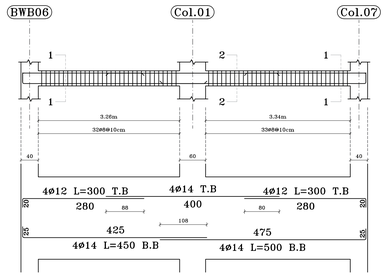
Section (1-1)
Scale 1:20



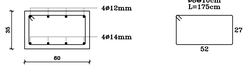
Section (2-2)
Scale 1:20



Beam (10) – Basement (-1)

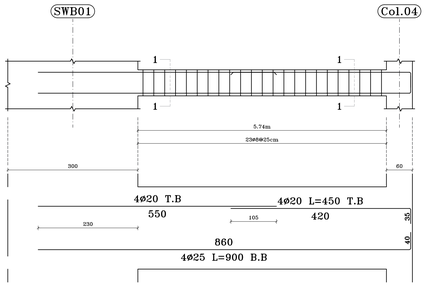


Section (1-1)
Scale 1:20

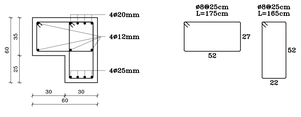


Section (2-2)
Scale 1:20

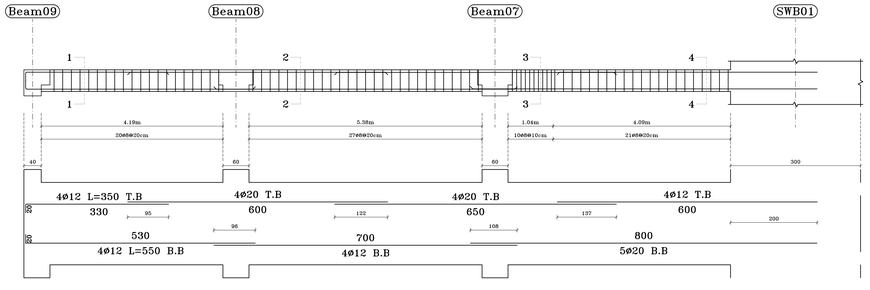
Beam (11) – Basement (-1)



Section (1-1)
Scale 1:20

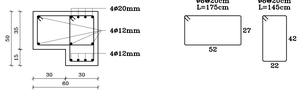


Beam (12) – Basement (-1)



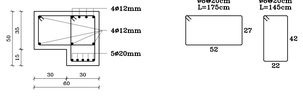
Section (1-1)
Scale 1:20

Section (2-2)
Scale 1:20



Section (3-3)
Scale 1:20

Section (4-4)
Scale 1:20



N

NOTES:

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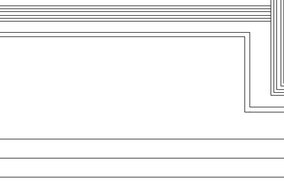


Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
Basement (-1) Floor

Supervisor :

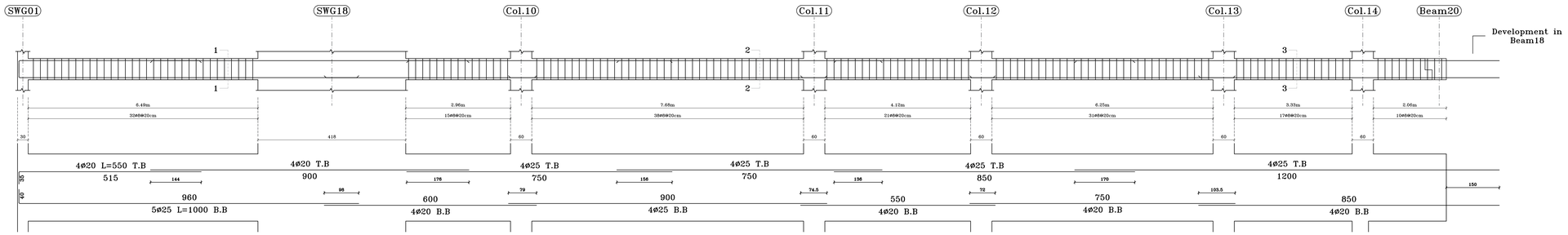
Eng. Sufian Al-Turk

SCALE:

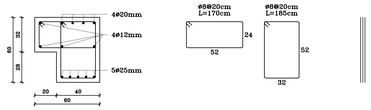
1/50

S90

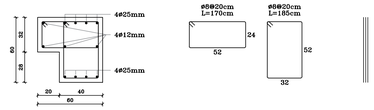
Beam (01) – Ground Floor



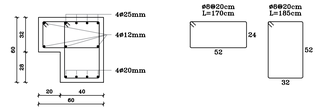
Section (1–1)
Scale 1:20



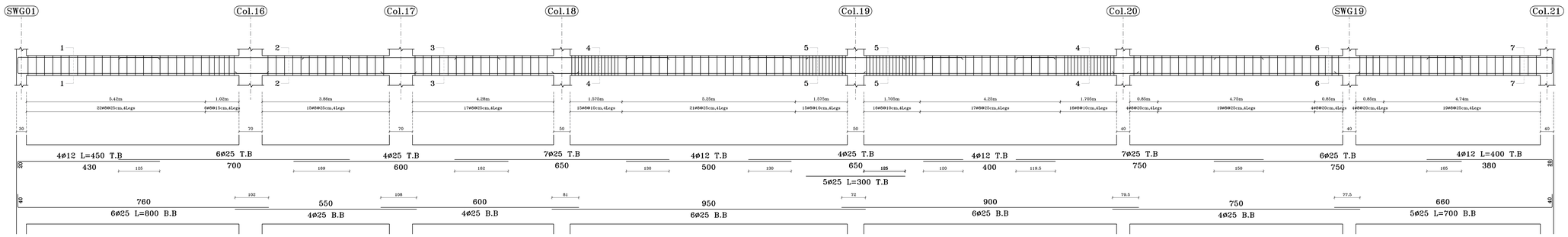
Section (2–2)
Scale 1:20



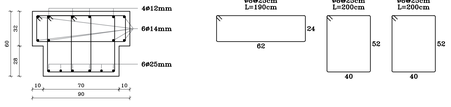
Section (3–3)
Scale 1:20



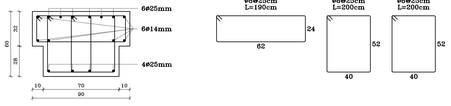
Beam (02) – Ground Floor



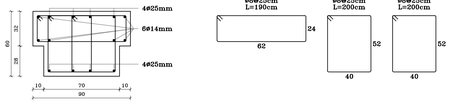
Section (1–1)
Scale 1:20



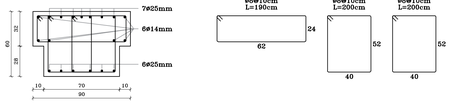
Section (2–2)
Scale 1:20



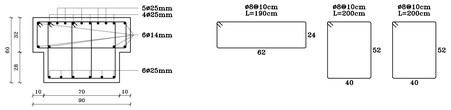
Section (3–3)
Scale 1:20



Section (4–4)
Scale 1:20



Section (5–5)
Scale 1:20



Section (6–6)
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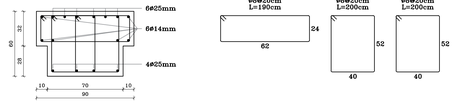

Section (7–7)
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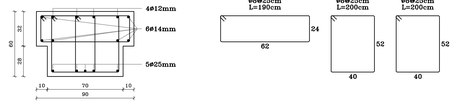
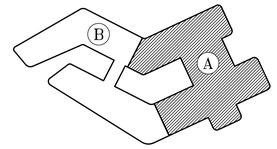


N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details Ground Floor

Supervisor :

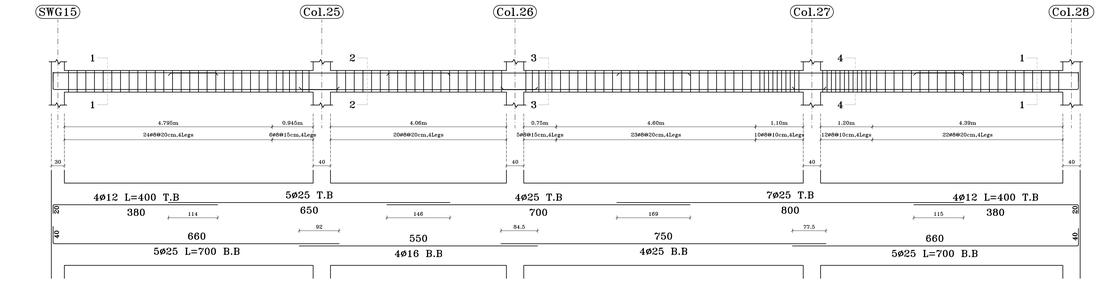
Eng. Sufian Al-Turk

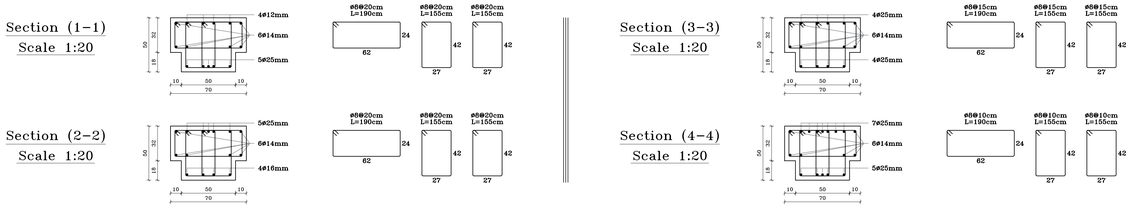
SCALE:

1/50

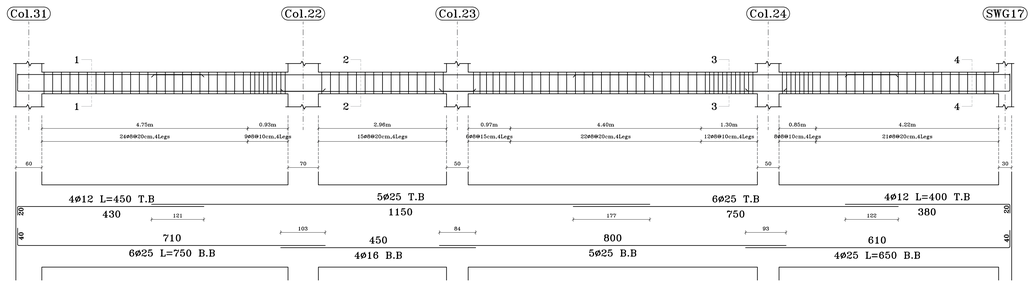
S91

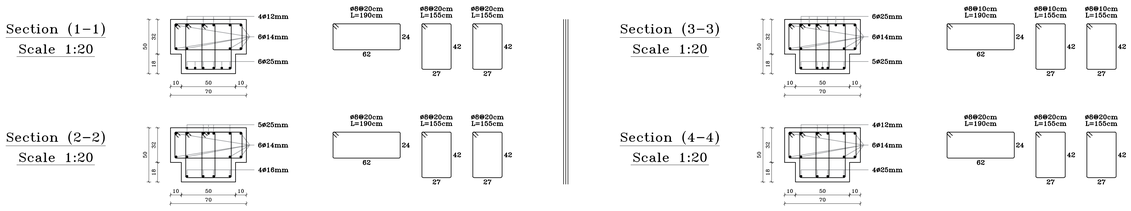
Beam (03) – Ground Floor





Beam (04) – Ground Floor

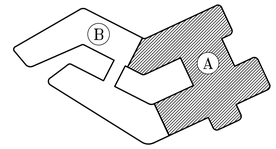




NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details Ground Floor

Supervisor :

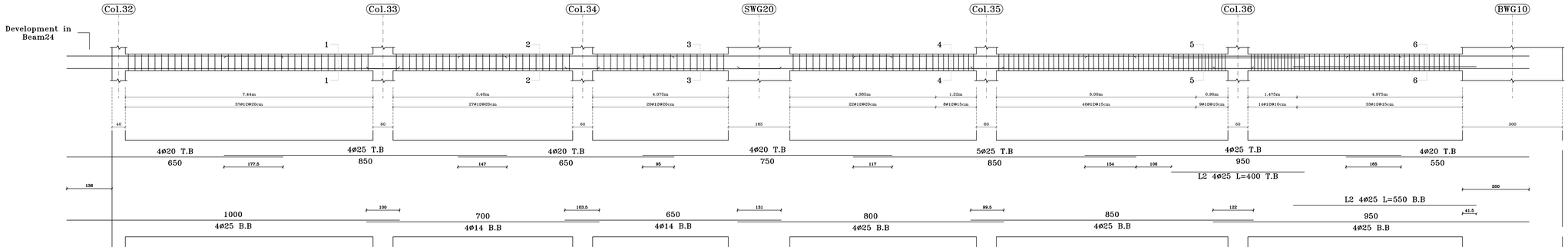
Eng. Sufian Al-Turk

SCALE:

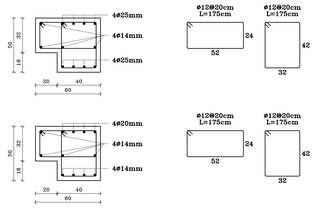
1/50

S92

Beam (05) – Ground Floor

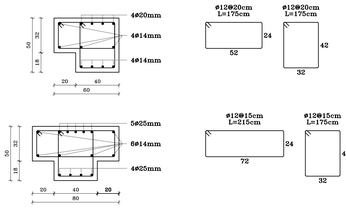


Section (1–1)
Scale 1:20

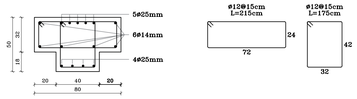


Section (2–2)
Scale 1:20

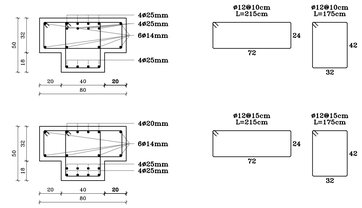
Section (3–3)
Scale 1:20



Section (4–4)
Scale 1:20

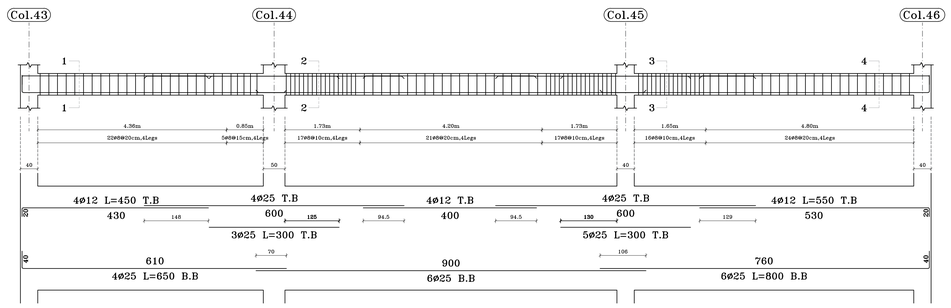


Section (5–5)
Scale 1:20

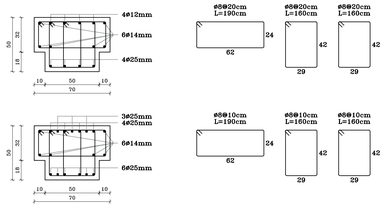


Section (6–6)
Scale 1:20

Beam (06) – Ground Floor

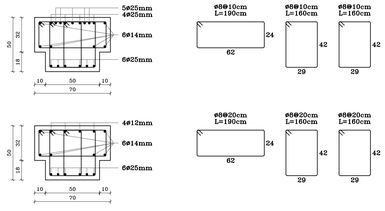


Section (1–1)
Scale 1:20



Section (2–2)
Scale 1:20

Section (3–3)
Scale 1:20



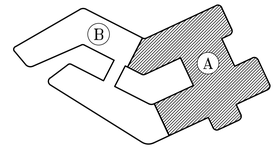
Section (4–4)
Scale 1:20

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details Ground Floor

Supervisor :

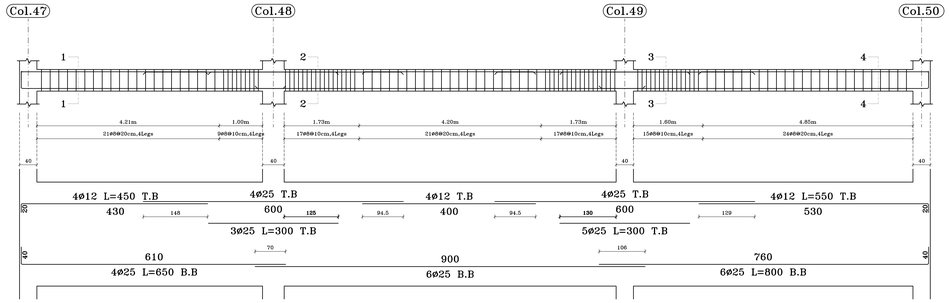
Eng. Sufian Al-Turk

SCALE:

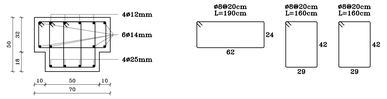
1/50

S93

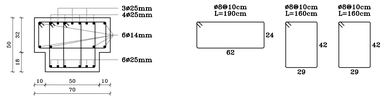
Beam (07) – Ground Floor



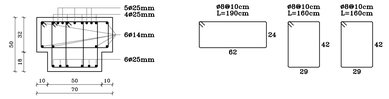
Section (1–1)
Scale 1:20



Section (2–2)
Scale 1:20

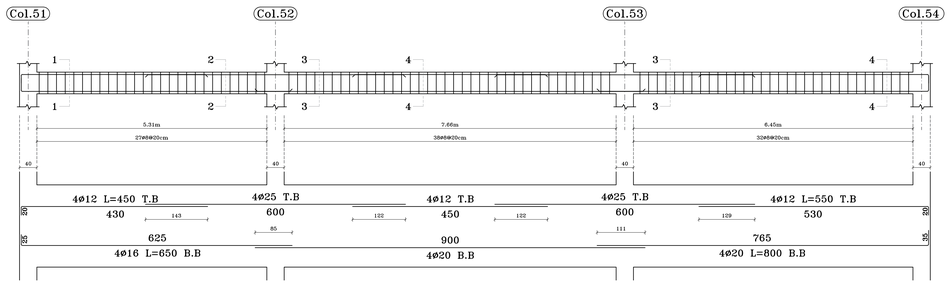


Section (3–3)
Scale 1:20

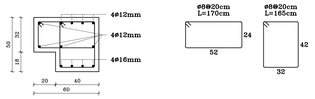


Section (4–4)
Scale 1:20

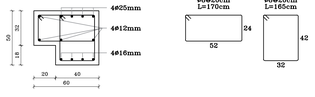
Beam (08) – Ground Floor



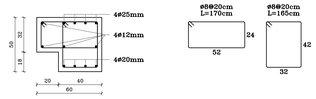
Section (1–1)
Scale 1:20



Section (2–2)
Scale 1:20



Section (3–3)
Scale 1:20



Section (4–4)
Scale 1:20

NOTES:

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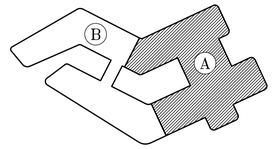


Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details Ground Floor

Supervisor :

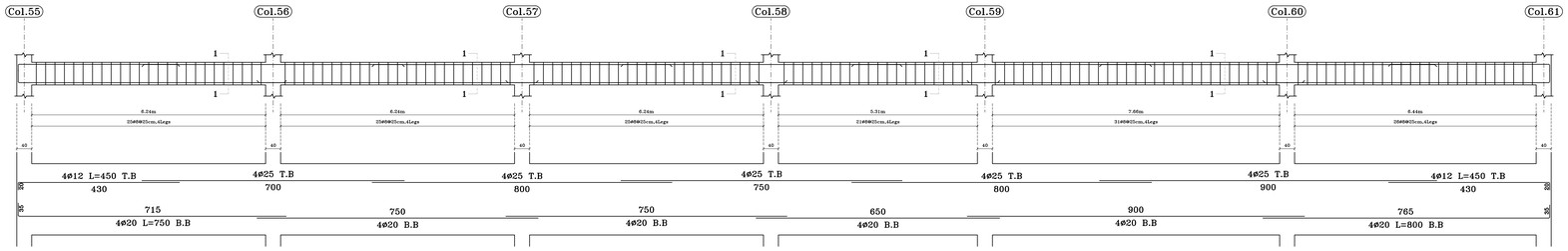
Eng. Sufian Al-Turk

SCALE:

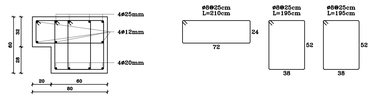
1/50

S94

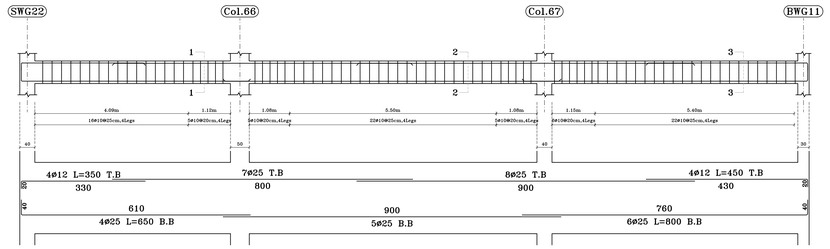
Beam (09) – Ground Floor



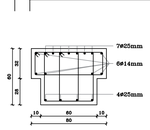
Section (1-1)
Scale 1:20

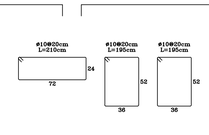


Beam (10) – Ground Floor

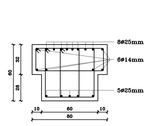


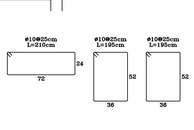
Section (1-1)
Scale 1:20



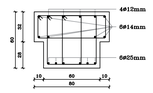


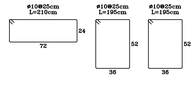
Section (2-2)
Scale 1:20



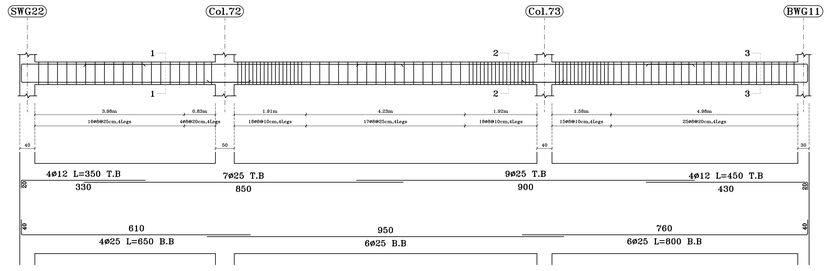


Section (3-3)
Scale 1:20

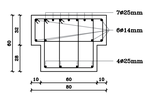


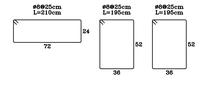


Beam (11) – Ground Floor

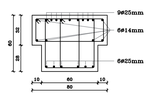


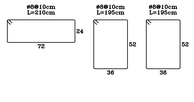
Section (1-1)
Scale 1:20



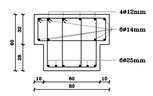


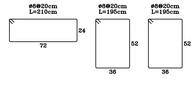
Section (2-2)
Scale 1:20





Section (3-3)
Scale 1:20





N

NOTES:

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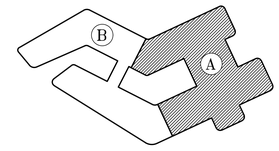


Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details Ground Floor

Supervisor :

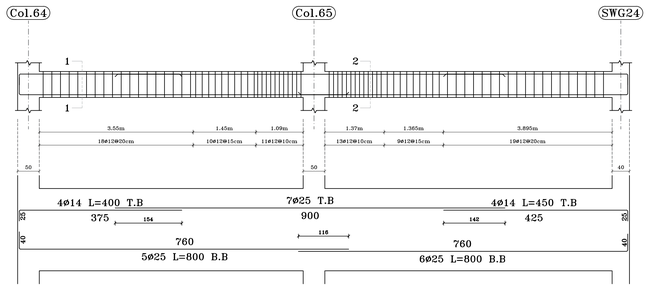
Eng. Sufian Al-Turk

SCALE:

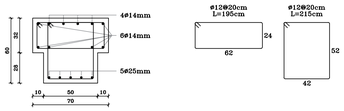
1/50

S95

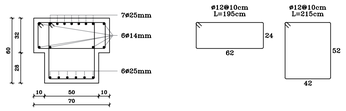
Beam (12) – Ground Floor



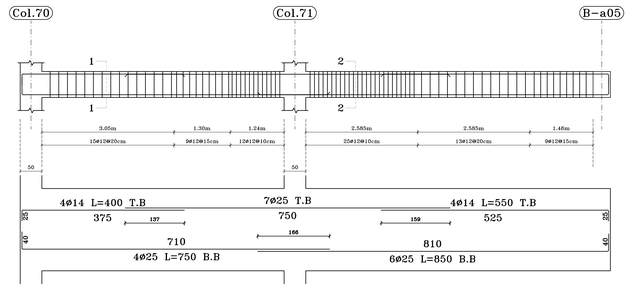
Section (1-1)
Scale 1:20



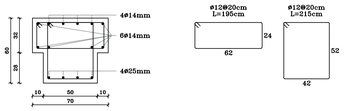
Section (2-2)
Scale 1:20



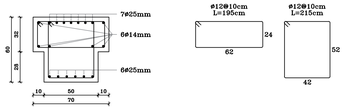
Beam (13) – Ground Floor



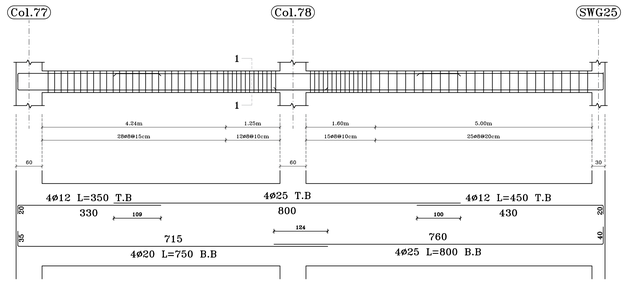
Section (1-1)
Scale 1:20



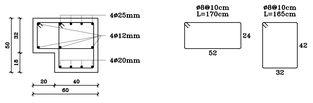
Section (2-2)
Scale 1:20



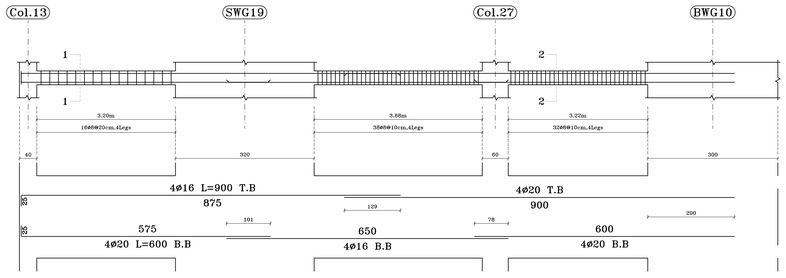
Beam (14) – Ground Floor



Section (1-1)
Scale 1:20



Beam (15) – Ground Floor



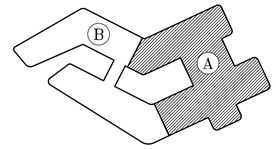
Section (1-1)
Scale 1:20

Section (2-2)
Scale 1:20

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details Ground Floor

Supervisor :

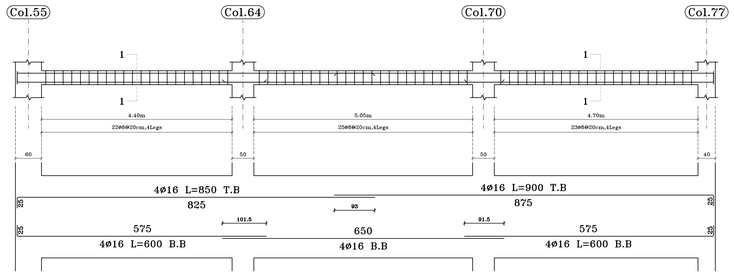
Eng. Sufian Al-Turk

SCALE:

1/50

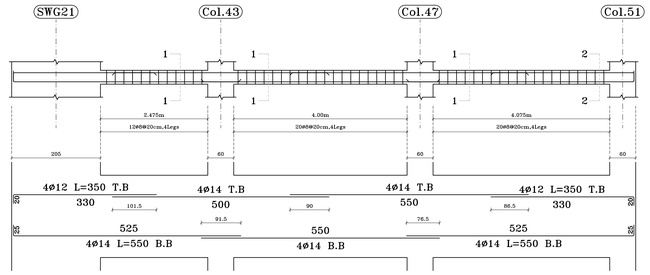
S96

Beam (16) – Ground Floor

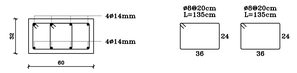


Section (1–1)
Scale 1:20

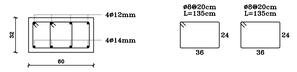
Beam (17) – Ground Floor



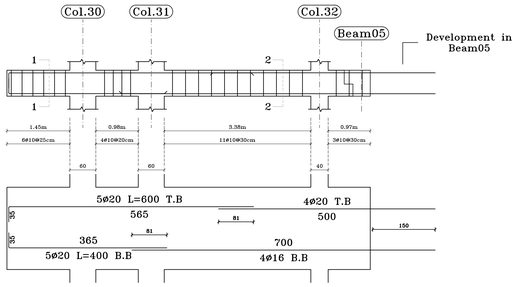
Section (1–1)
Scale 1:20



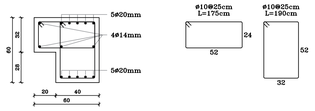
Section (2–2)
Scale 1:20



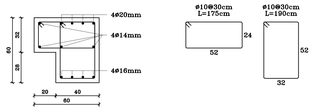
Beam (18) – Ground Floor



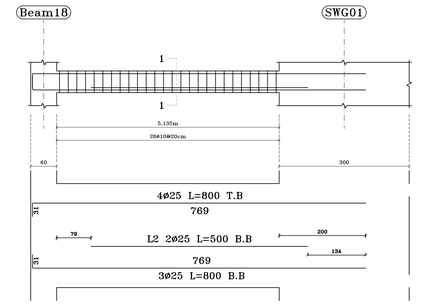
Section (1–1)
Scale 1:20



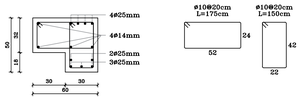
Section (2–2)
Scale 1:20



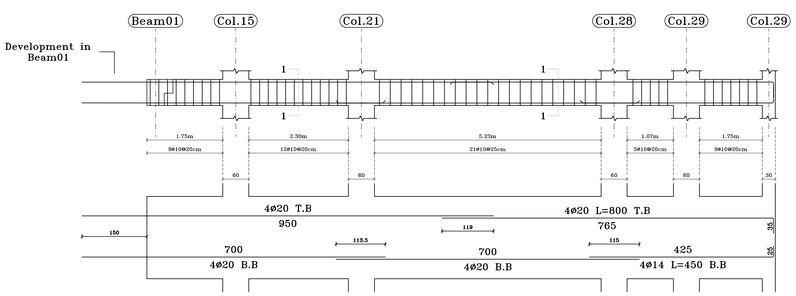
Beam (19) – Ground Floor



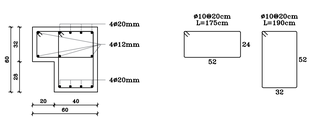
Section (1–1)
Scale 1:20

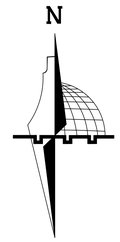


Beam (20) – Ground Floor



Section (1–1)
Scale 1:20





NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
Ground Floor

Supervisor :

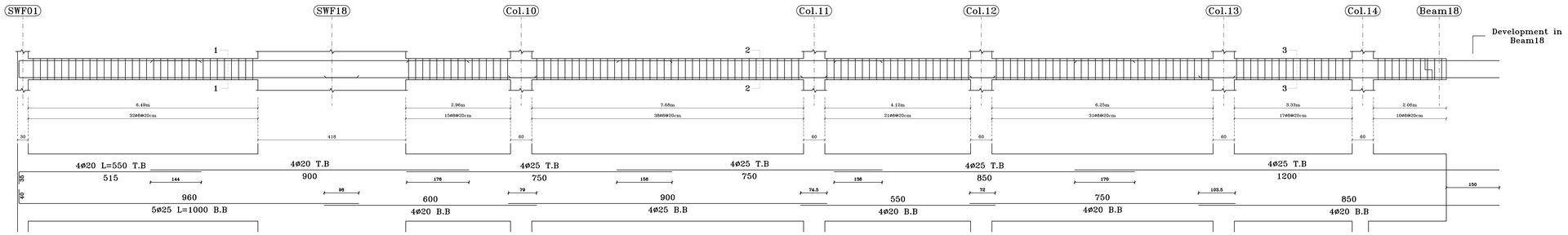
Eng. Sufian Al-Turk

SCALE:

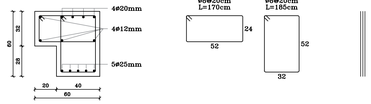
1/50

S97

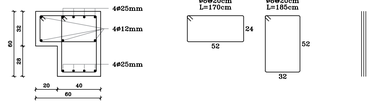
Beam (01) – First Floor



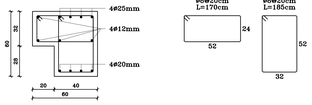
Section (1–1)
Scale 1:20



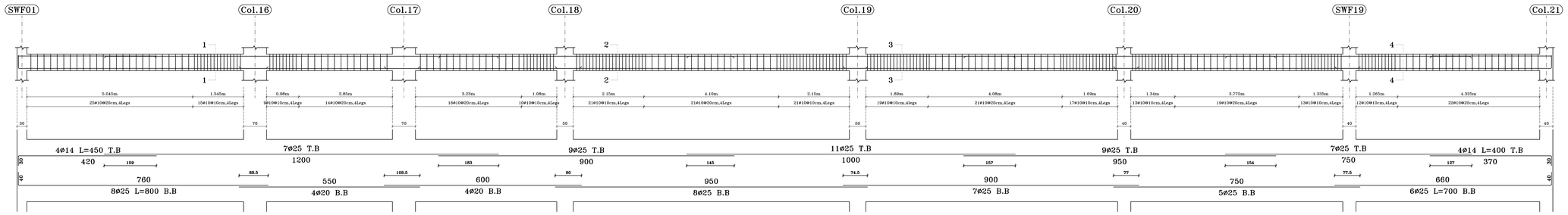
Section (2–2)
Scale 1:20



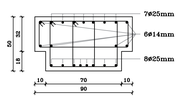
Section (3–3)
Scale 1:20



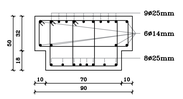
Beam (02) – First Floor



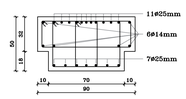
Section (1–1)
Scale 1:20



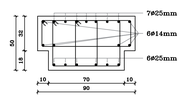
Section (2–2)
Scale 1:20

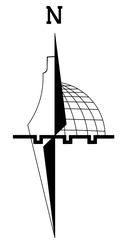


Section (3–3)
Scale 1:20



Section (3–3)
Scale 1:20





NOTES:

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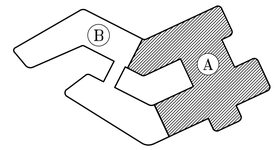


Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
First Floor

Supervisor :

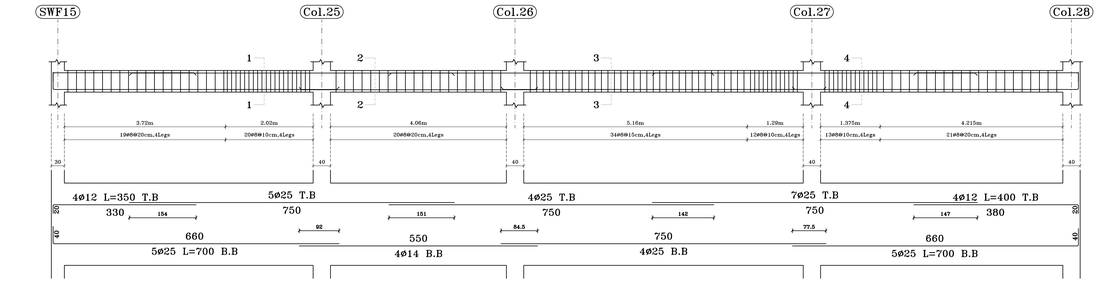
Eng. Sufian Al-Turk

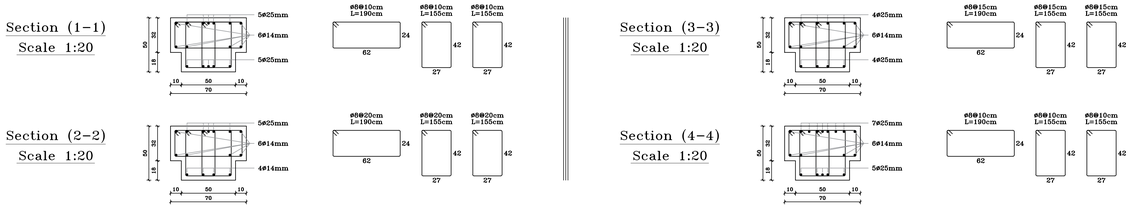
SCALE:

1/50

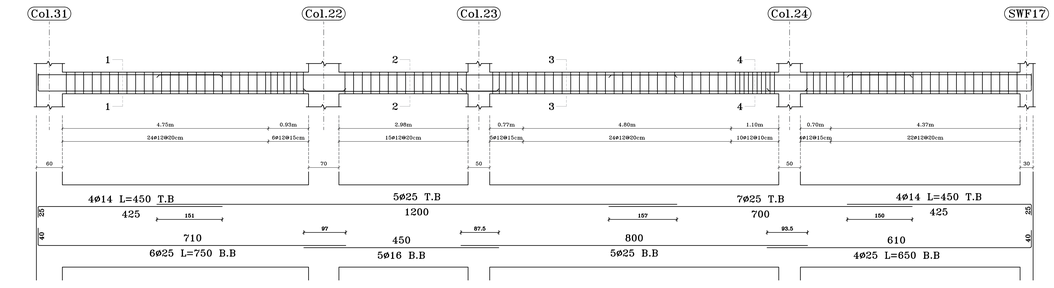
S98

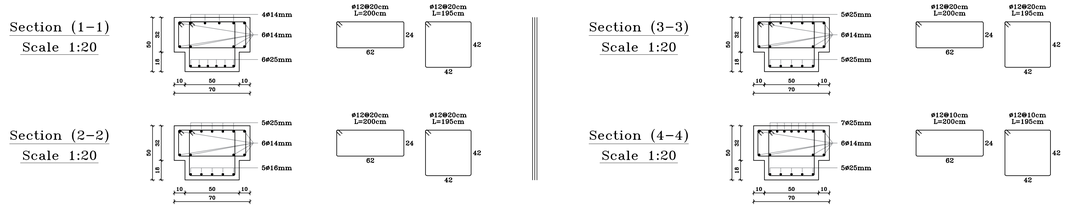
Beam (03) – First Floor





Beam (04) – First Floor





N

NOTES:

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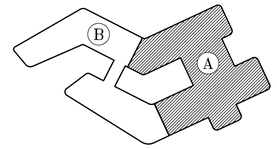
All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
First Floor

Supervisor :

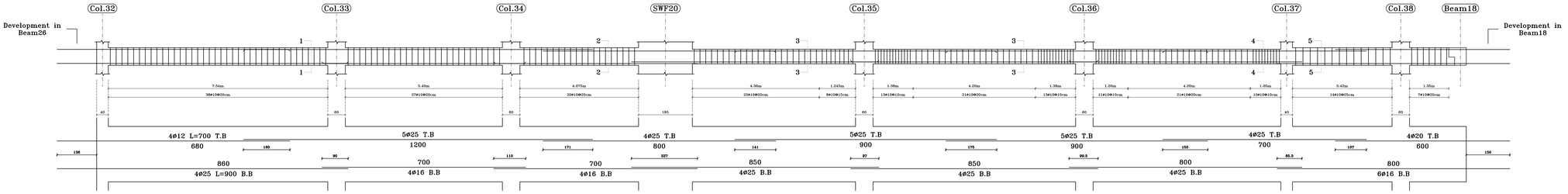
Eng. Sufian Al-Turk

SCALE:

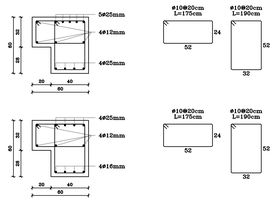
1/50

S99

Beam (05) – First Floor

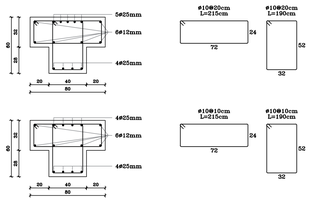


Section (1-1)
Scale 1:20



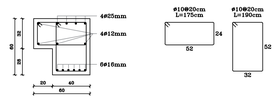
Section (2-2)
Scale 1:20

Section (3-3)
Scale 1:20

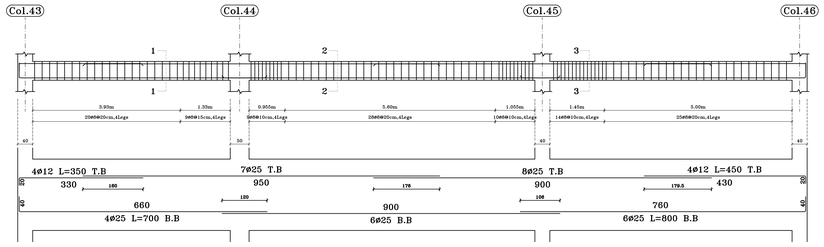


Section (4-4)
Scale 1:20

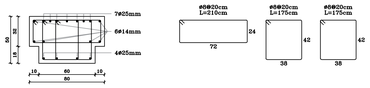
Section (5-5)
Scale 1:20



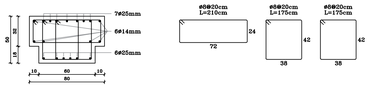
Beam (06) – First Floor



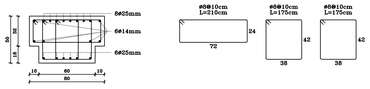
Section (1-1)
Scale 1:20



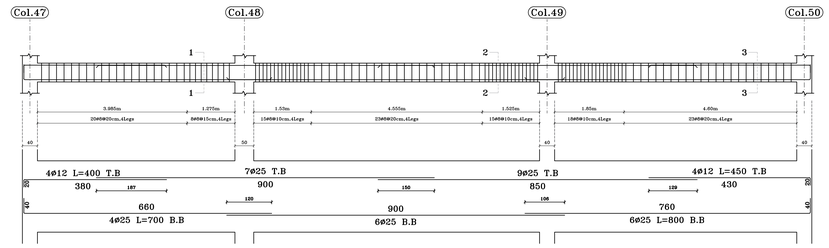
Section (2-2)
Scale 1:20



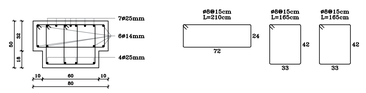
Section (3-3)
Scale 1:20



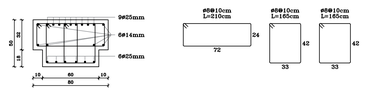
Beam (07) – First Floor



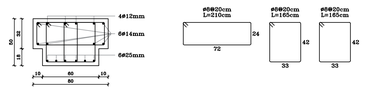
Section (1-1)
Scale 1:20



Section (2-2)
Scale 1:20



Section (3-3)
Scale 1:20



NOTES:

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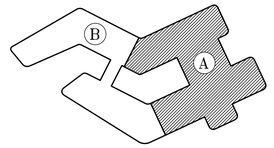


Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
First Floor

Supervisor :

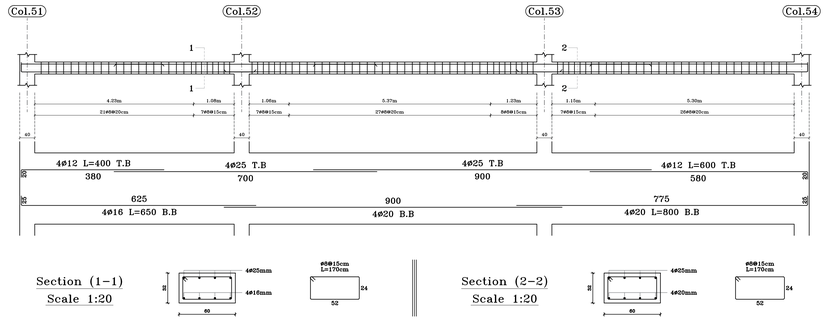
Eng. Sufian Al-Turk

SCALE:

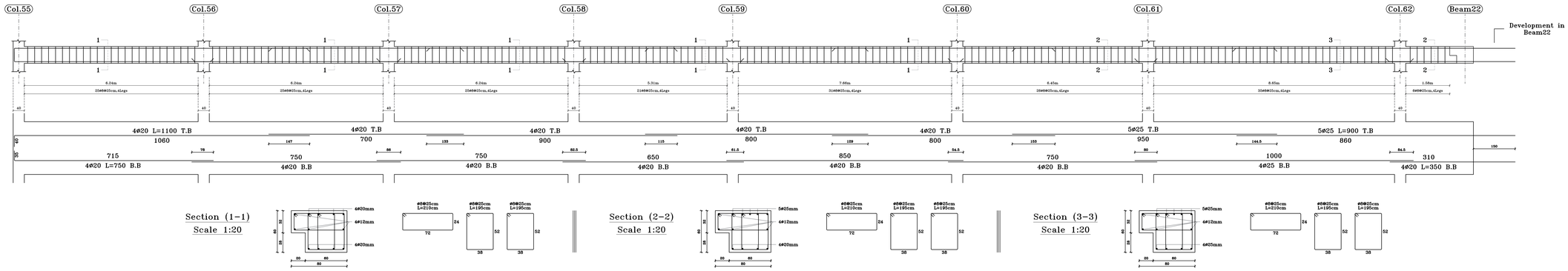
1/50

S100

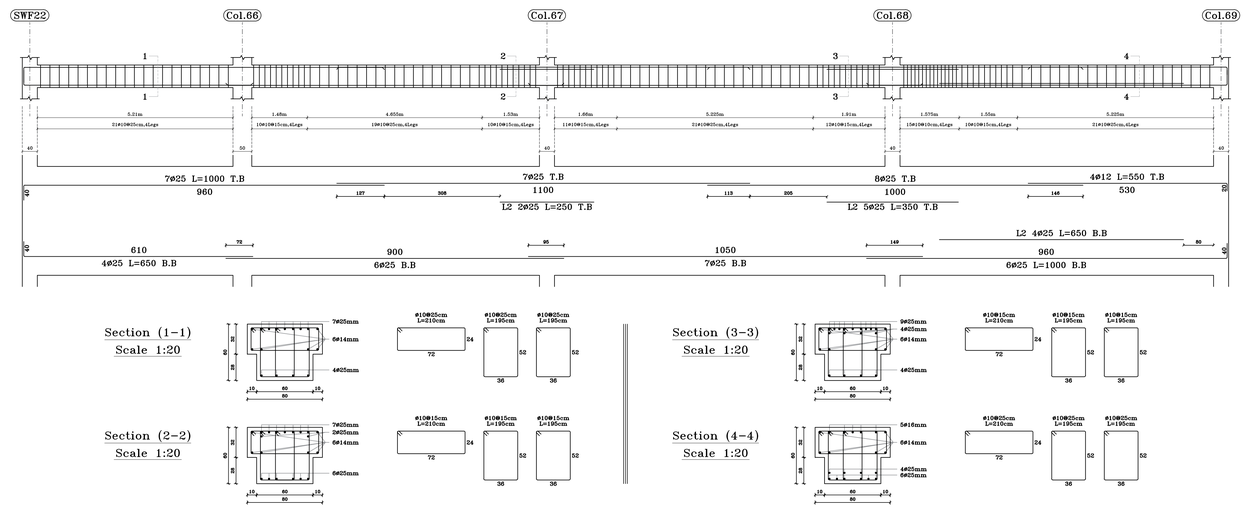
Beam (08) – First Floor



Beam (09) – First Floor



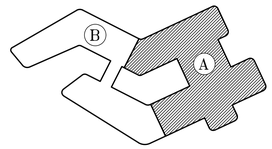
Beam (10) – First Floor



NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
First Floor

Supervisor :

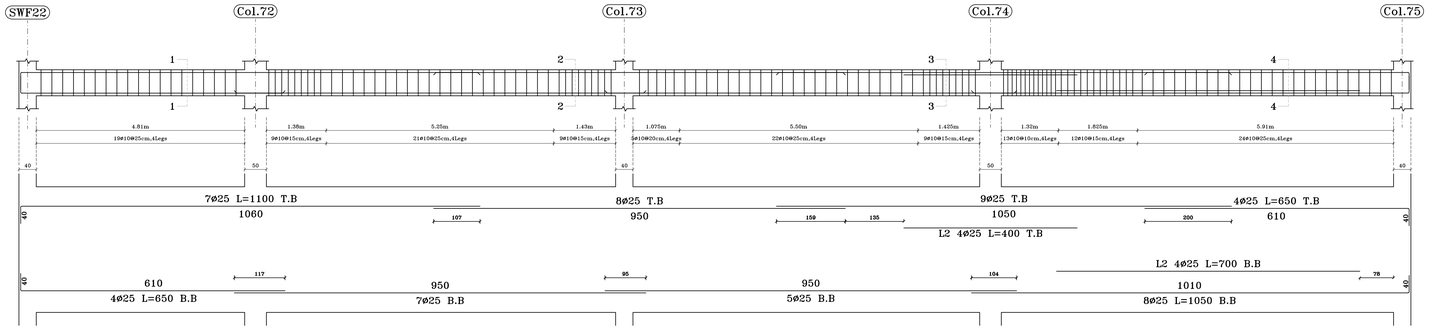
Eng. Sufian Al-Turk

SCALE:

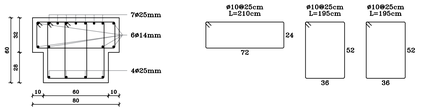
1/50

S101

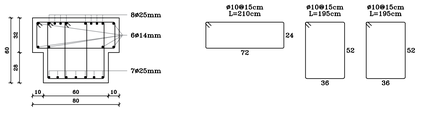
Beam (11) – First Floor



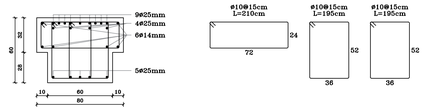
Section (1-1)
Scale 1:20



Section (2-2)
Scale 1:20



Section (3-3)
Scale 1:20



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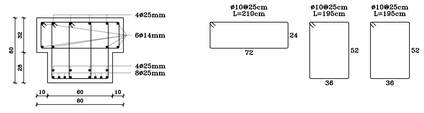
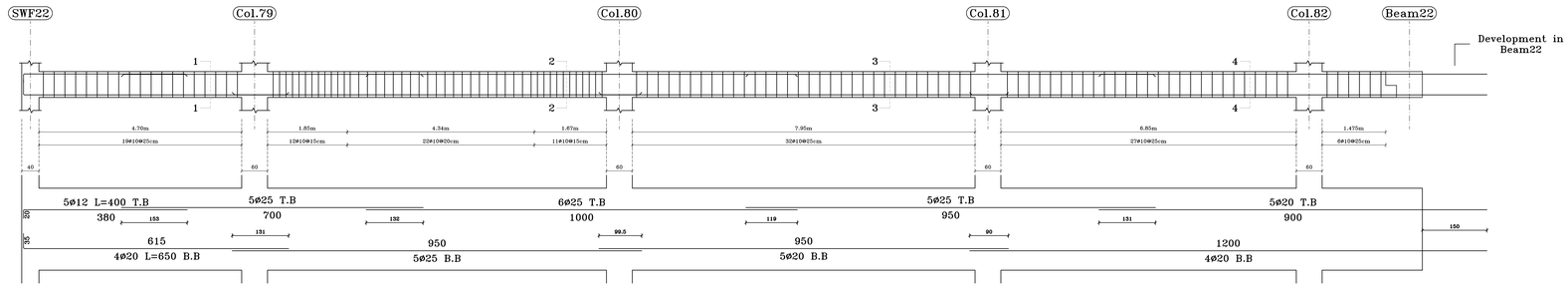
Scale 1:20



Beam (12) – First Floor



Section (1-1)
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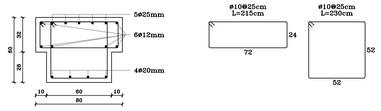
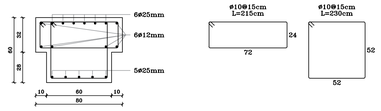
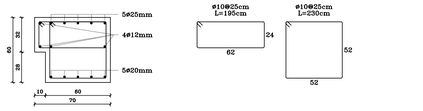


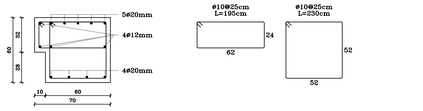
Section (2-2)
Scale 1:20



Section (3-3)
Scale 1:20



Section (4-4)
Scale 1:20



NOTES:

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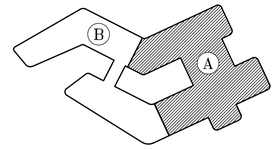


Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
First Floor

Supervisor :

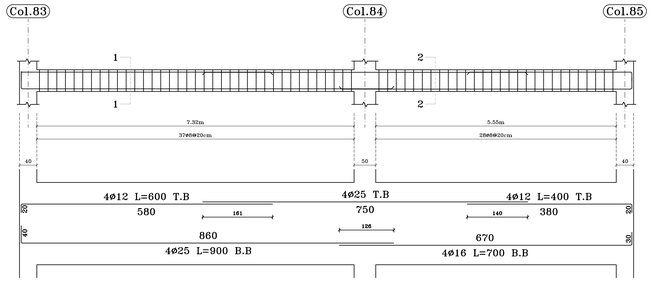
Eng. Sufian Al-Turk

SCALE:

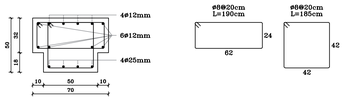
1/50

S102

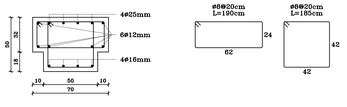
Beam (13) – First Floor



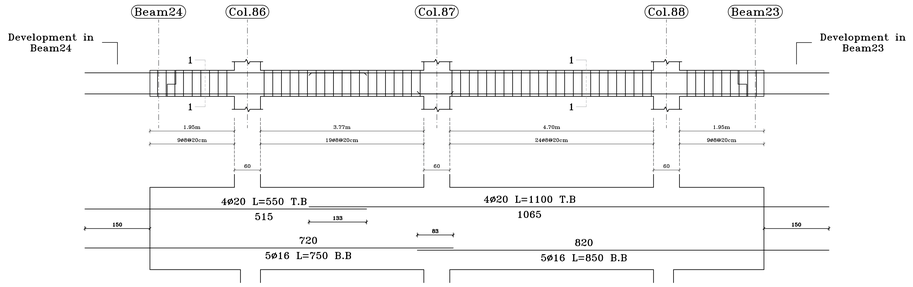
Section (1-1)
Scale 1:20



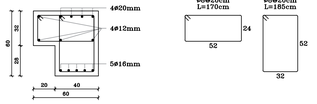
Section (2-2)
Scale 1:20



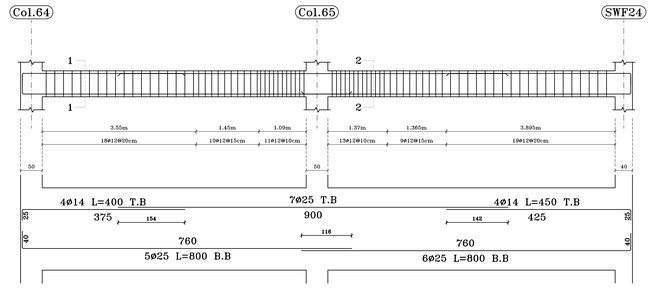
Beam (14) – First Floor



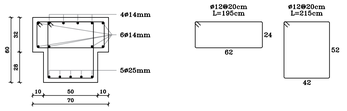
Section (1-1)
Scale 1:20



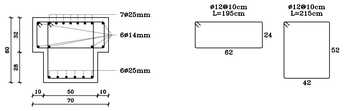
Beam (15) – First Floor



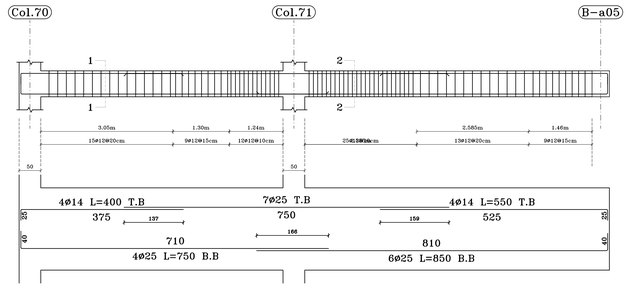
Section (1-1)
Scale 1:20



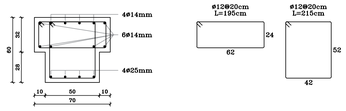
Section (2-2)
Scale 1:20



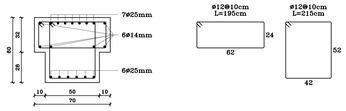
Beam (16) – First Floor

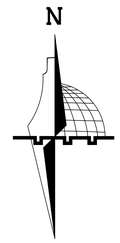


Section (1-1)
Scale 1:20



Section (2-2)
Scale 1:20





NOTES:

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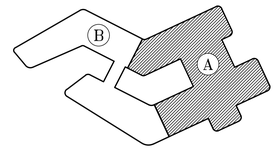

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

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NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
First Floor

Supervisor :

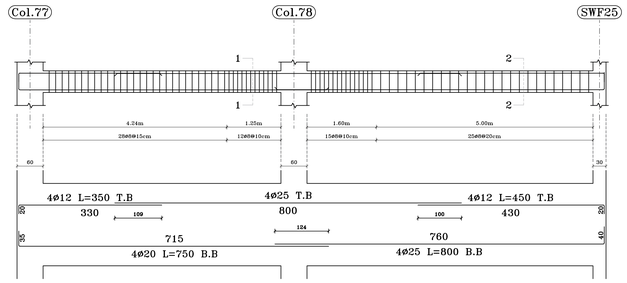
Eng. Sufian Al-Turk

SCALE:

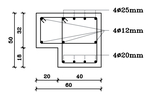
1/50

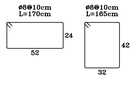
S103

Beam (17) – First Floor

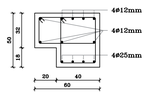


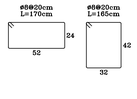
Section (1–1)
Scale 1:20



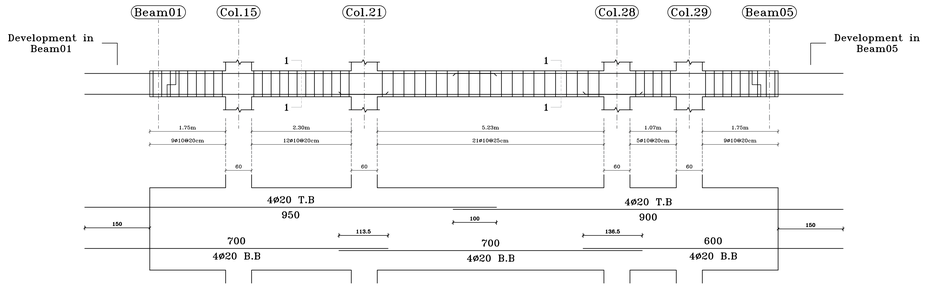


Section (2–2)
Scale 1:20

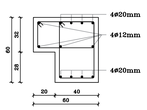


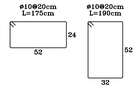


Beam (18) – First Floor

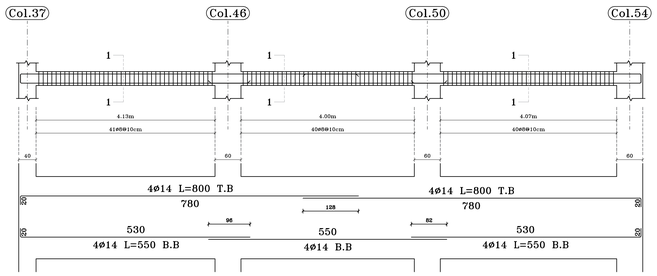


Section (1–1)
Scale 1:20

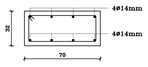




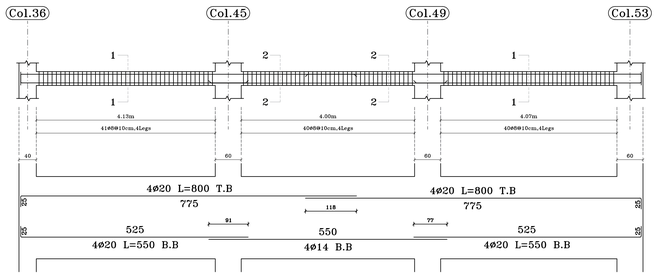
Beam (19) – First Floor



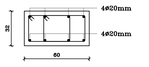
Section (1–1)
Scale 1:20

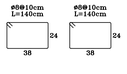


Beam (20) – First Floor

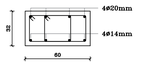


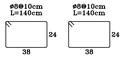
Section (1–1)
Scale 1:20



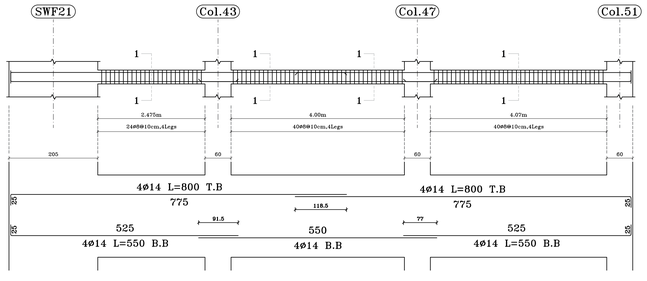


Section (2–2)
Scale 1:20

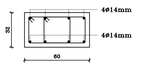


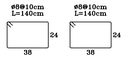


Beam (21) – First Floor



Section (1–1)
Scale 1:20





NOTES:

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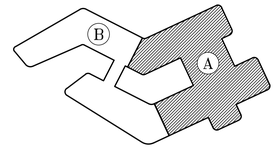


Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
First Floor

Supervisor :

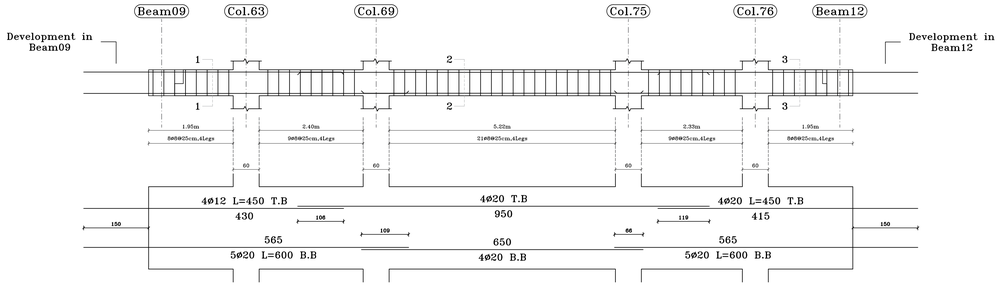
Eng. Sufian Al-Turk

SCALE:

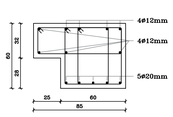
1/50

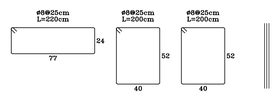
S104

Beam (22) – First Floor

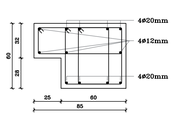


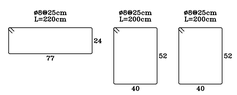
Section (1-1)
Scale 1:20



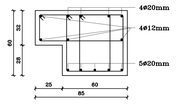


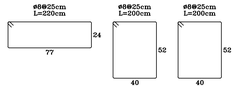
Section (2-2)
Scale 1:20



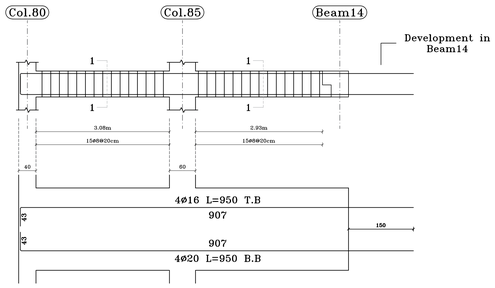


Section (3-3)
Scale 1:20

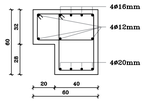


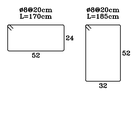


Beam (23) – First Floor

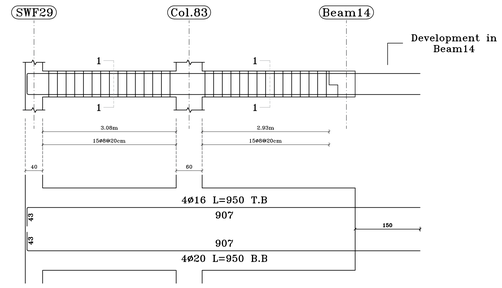


Section (1-1)
Scale 1:20

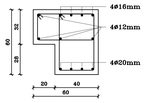


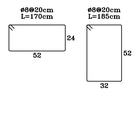


Beam (24) – First Floor



Section (1-1)
Scale 1:20





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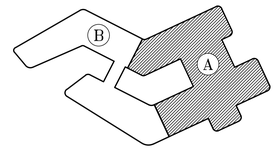
NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details First Floor

Supervisor :

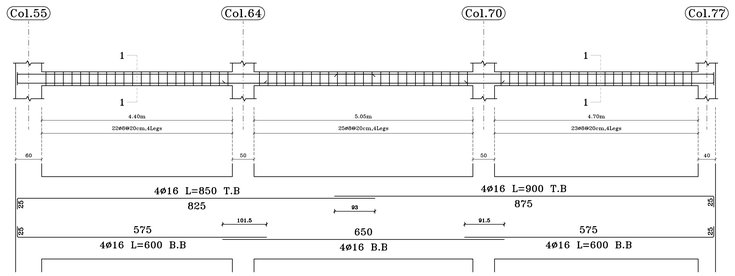
Eng. Sufian Al-Turk

SCALE:

1/50

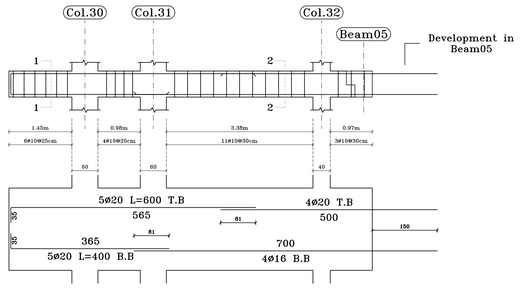
S105

Beam (25) – First Floor

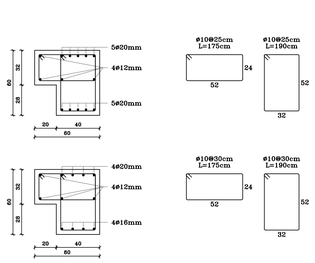


Section (1–1)
Scale 1:20

Beam (26) – First Floor

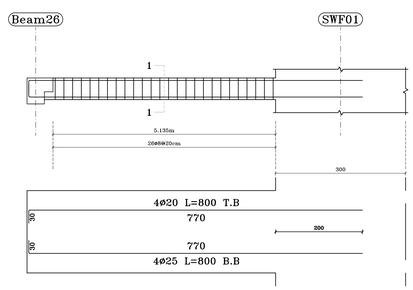


Section (1–1)
Scale 1:20

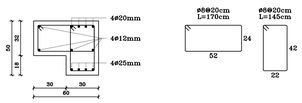


Section (2–2)
Scale 1:20

Beam (27) – First Floor



Section (1–1)
Scale 1:20

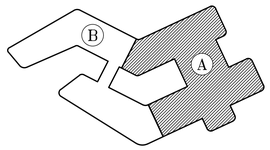


N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details First Floor

Supervisor :

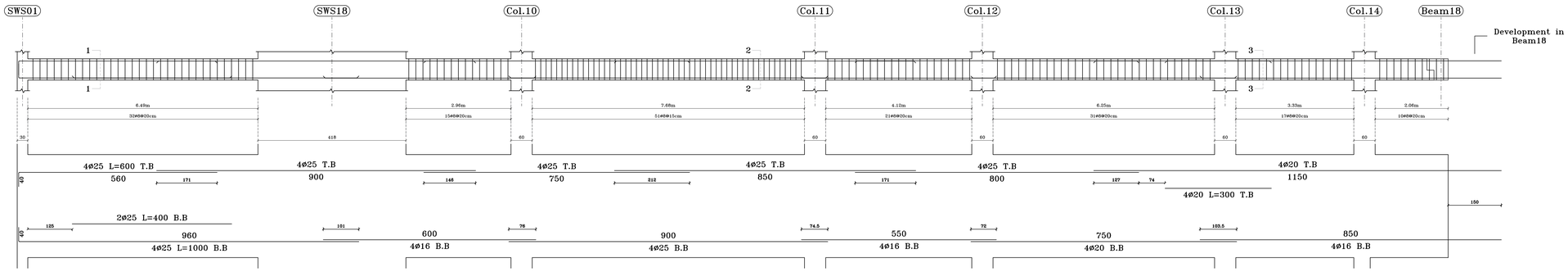
Eng. Sufian Al-Turk

SCALE:

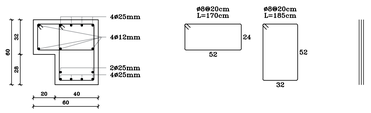
1/50

S106

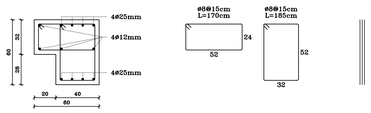
Beam (01) – Second Floor



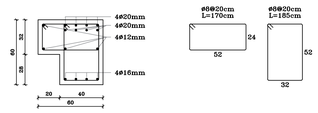
Section (1-1)
Scale 1:20



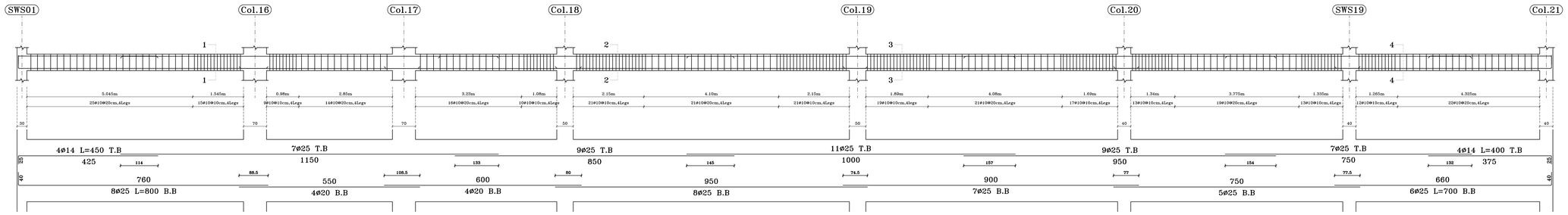
Section (2-2)
Scale 1:20



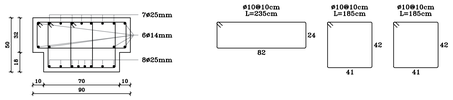
Section (3-3)
Scale 1:20



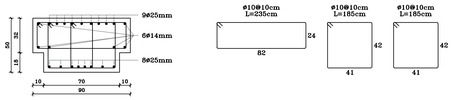
Beam (02) – Second Floor



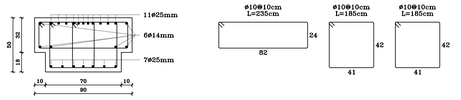
Section (1-1)
Scale 1:20



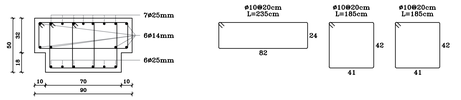
Section (2-2)
Scale 1:20



Section (3-3)
Scale 1:20



Section (3-3)
Scale 1:20



NOTES:

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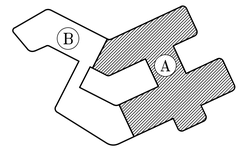
All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
Second Floor

Supervisor :

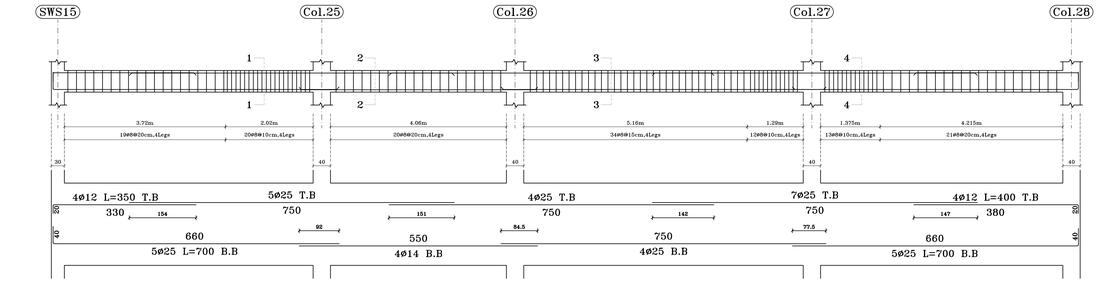
Eng. Sufian Al-Turk

SCALE:

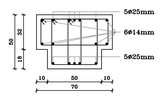
1/50

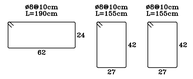
S107

Beam (03) – Second Floor

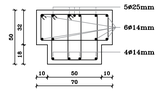


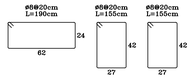
Section (1-1)
Scale 1:20



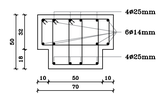


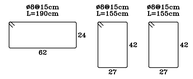
Section (2-2)
Scale 1:20



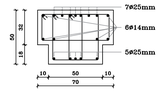


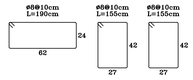
Section (3-3)
Scale 1:20



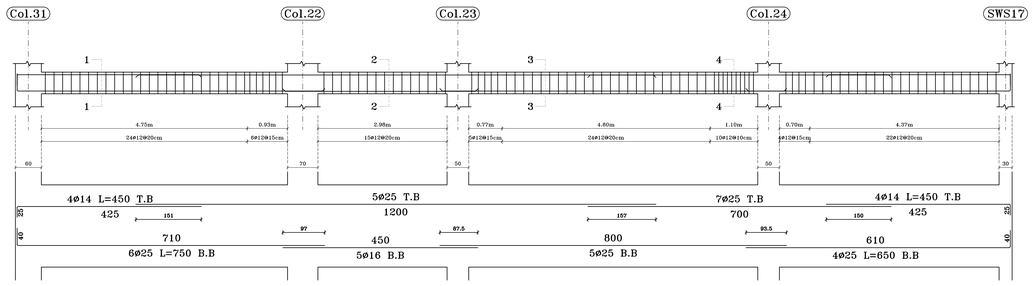


Section (4-4)
Scale 1:20

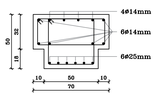


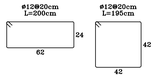


Beam (04) – Second Floor

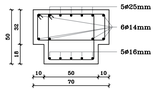


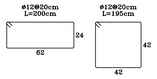
Section (1-1)
Scale 1:20



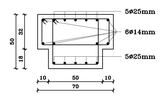


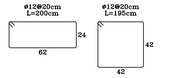
Section (2-2)
Scale 1:20



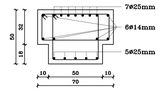


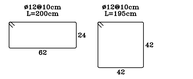
Section (3-3)
Scale 1:20





Section (4-4)
Scale 1:20





N

NOTES:

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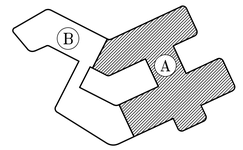
All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
Second Floor

Supervisor :

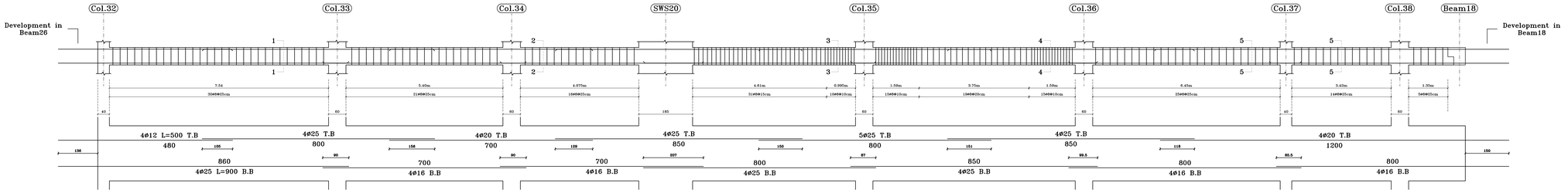
Eng. Sufian Al-Turk

SCALE:

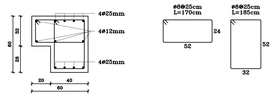
1/50

S108

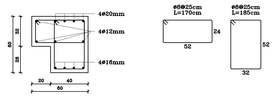
Beam (05) – Second Floor



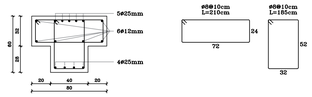
Section (1-1)
Scale 1:20



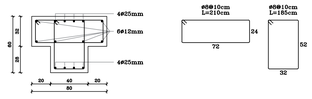
Section (2-2)
Scale 1:20



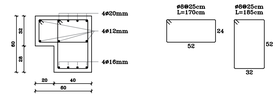
Section (3-3)
Scale 1:20



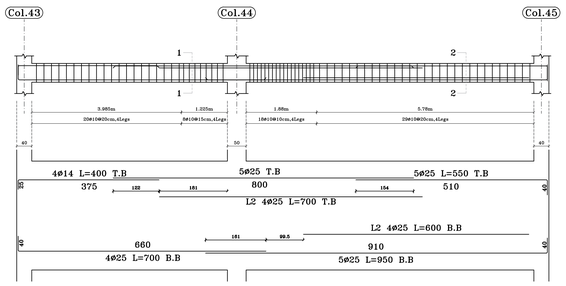
Section (4-4)
Scale 1:20



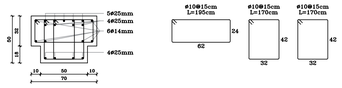
Section (5-5)
Scale 1:20



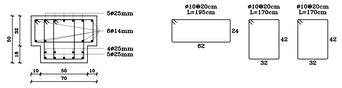
Beam (06) – Second Floor



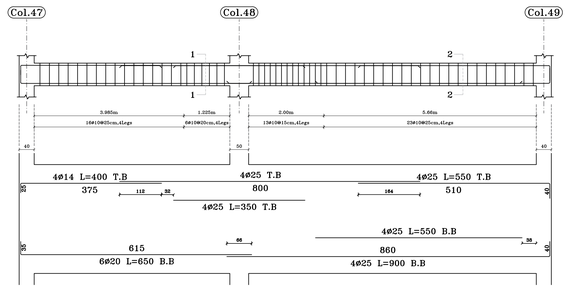
Section (1-1)
Scale 1:20



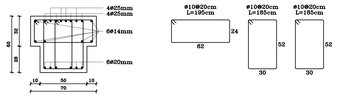
Section (2-2)
Scale 1:20



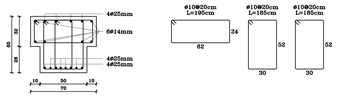
Beam (07) – Second Floor



Section (1-1)
Scale 1:20



Section (2-2)
Scale 1:20



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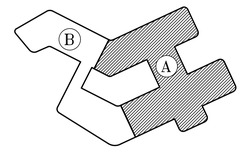
NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
Second Floor

Supervisor :

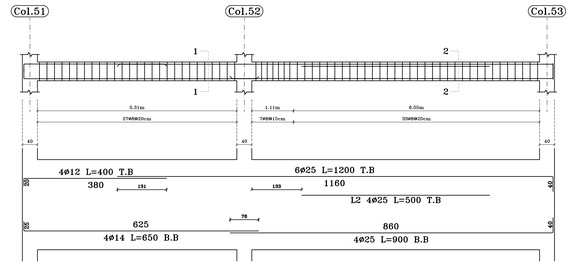
Eng. Sufian Al-Turk

SCALE:

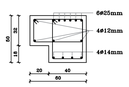
1/50

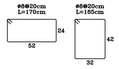
S109

Beam (08) – Second Floor



Section (1-1)
Scale 1:20





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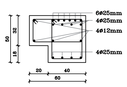
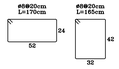
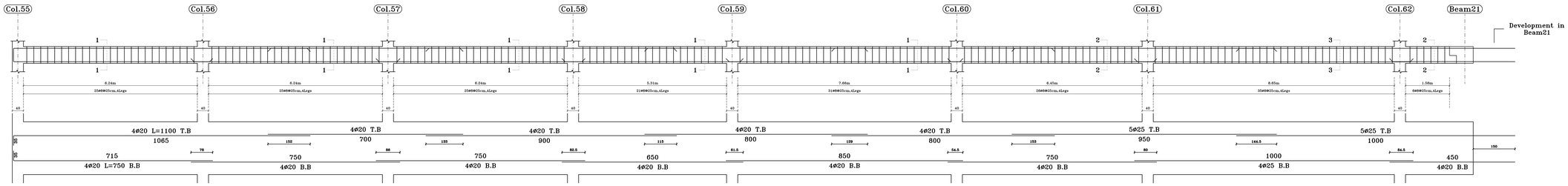
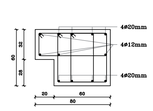


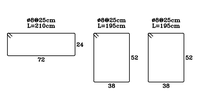


Beam (09) – Second Floor



Section (1-1)
Scale 1:20





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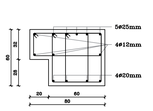
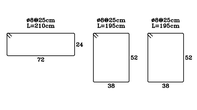
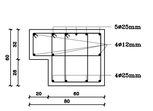
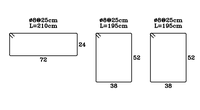
Scale 1:20



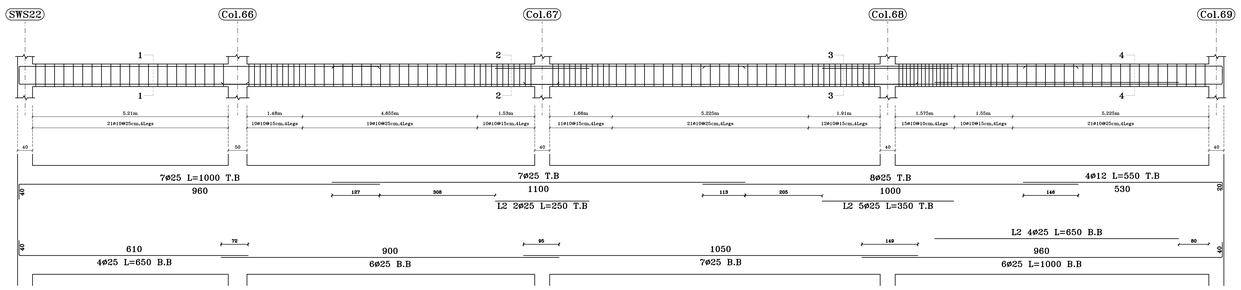


Section (3-3)
Scale 1:20

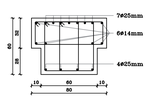


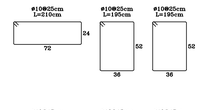


Beam (10) – Second Floor

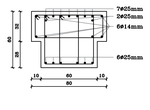


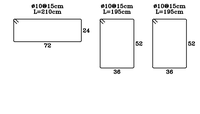
Section (1-1)
Scale 1:20



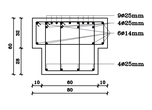


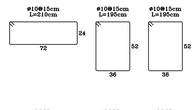
Section (2-2)
Scale 1:20



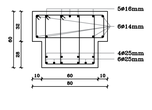


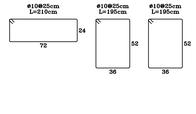
Section (3-3)
Scale 1:20

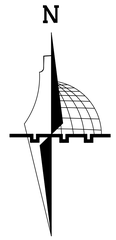




Section (4-4)
Scale 1:20



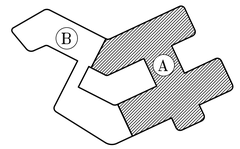




NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
Second Floor

Supervisor :

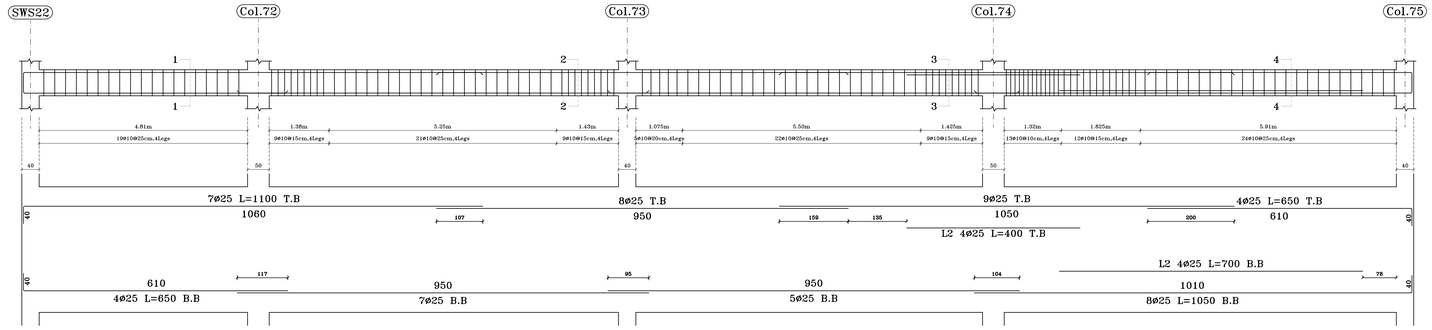
Eng. Sufian Al-Turk

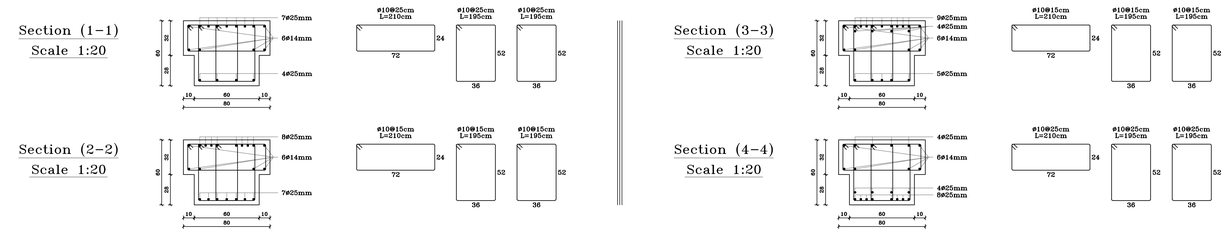
SCALE:

1/50

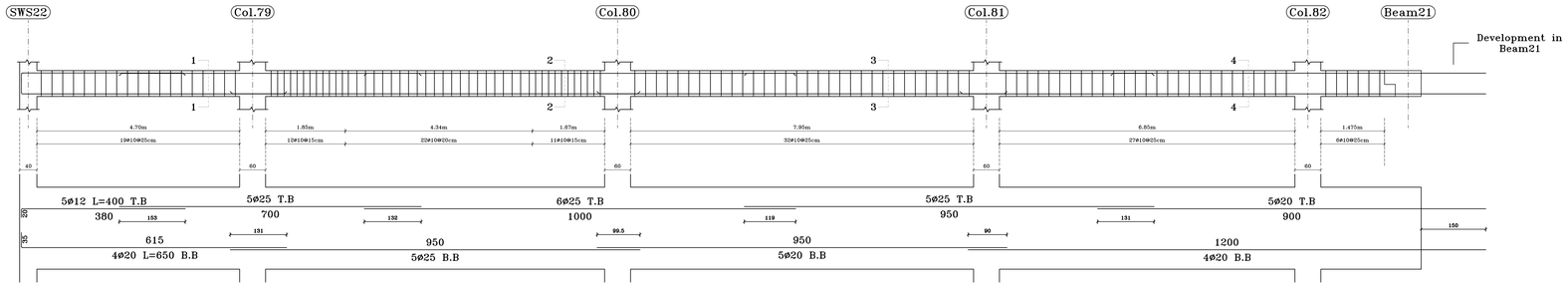
S110

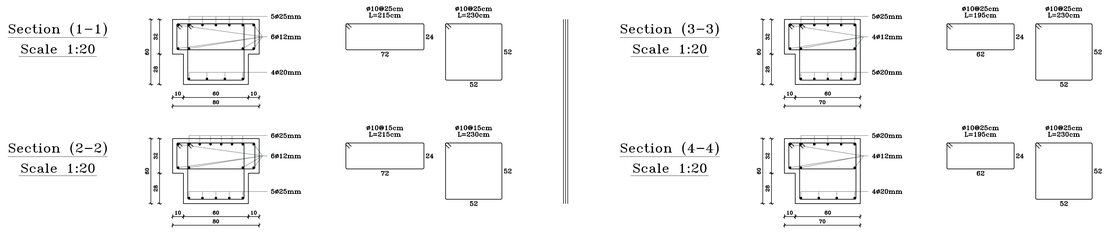
Beam (11) – Second Floor





Beam (12) – Second Floor

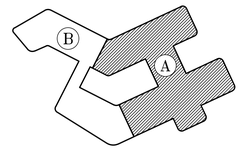




NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
Second Floor

Supervisor :

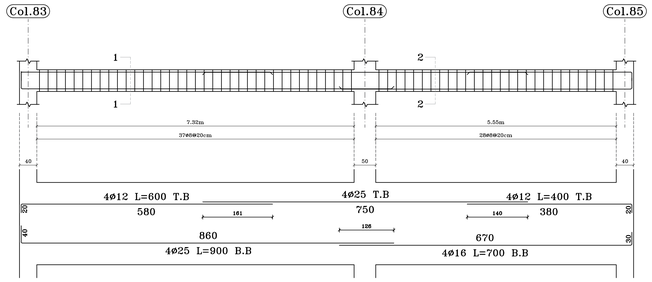
Eng. Sufian Al-Turk

SCALE:

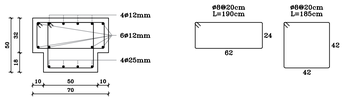
1/50

S111

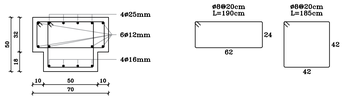
Beam (13) – Second Floor



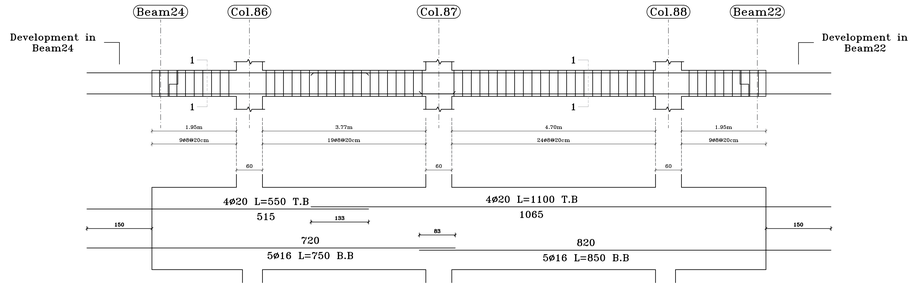
Section (1–1)
Scale 1:20



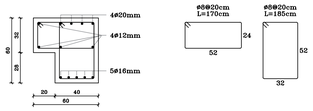
Section (2–2)
Scale 1:20



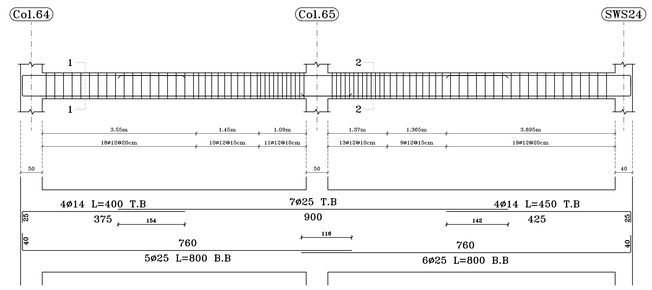
Beam (14) – Second Floor



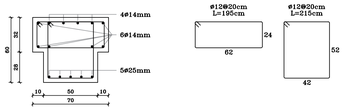
Section (1–1)
Scale 1:20



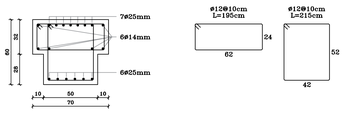
Beam (15) – Second Floor



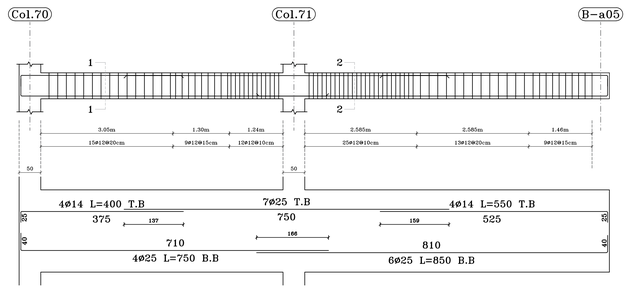
Section (1–1)
Scale 1:20



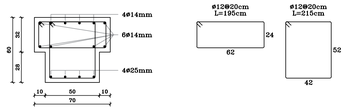
Section (2–2)
Scale 1:20



Beam (16) – Second Floor



Section (1–1)
Scale 1:20

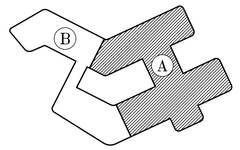


Section (2–2)
Scale 1:20

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
Second Floor

Supervisor :

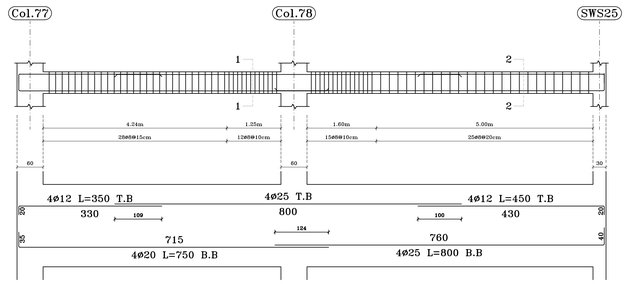
Eng. Sufian Al-Turk

SCALE:

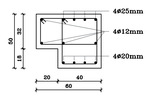
1/50

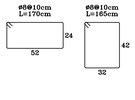
S112

Beam (17) – Second Floor

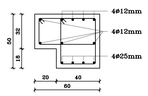


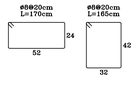
Section (1–1)
Scale 1:20



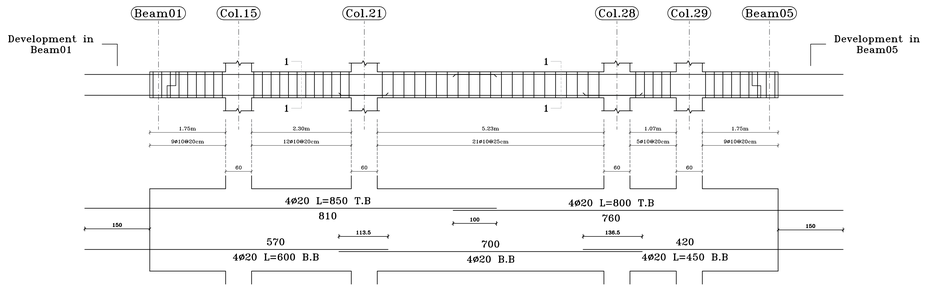


Section (2–2)
Scale 1:20

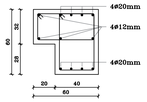


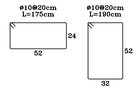


Beam (18) – Second Floor

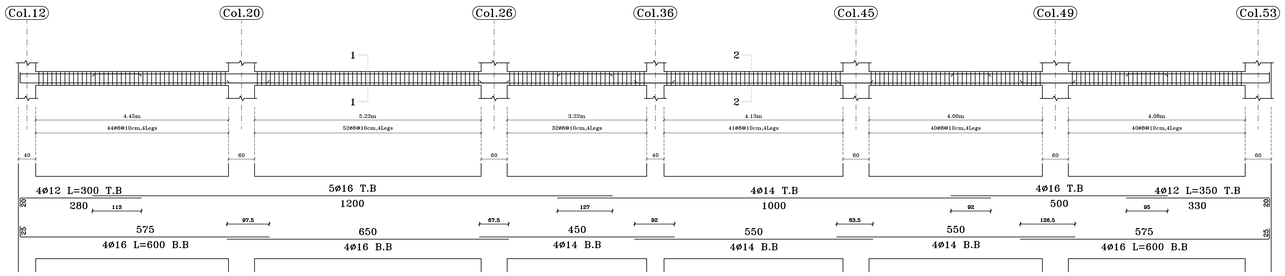


Section (1–1)
Scale 1:20

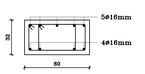


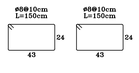


Beam (19) – Second Floor

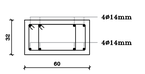


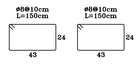
Section (1–1)
Scale 1:20



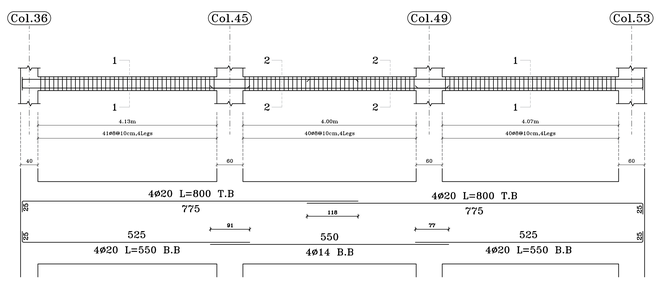


Section (2–2)
Scale 1:20

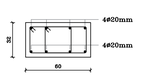


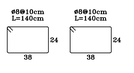


Beam (20) – Second Floor

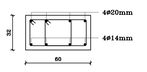


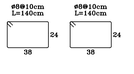
Section (1–1)
Scale 1:20





Section (2–2)
Scale 1:20





NOTES:

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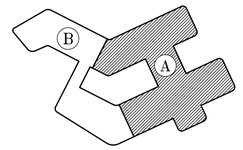


Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
Second Floor

Supervisor :

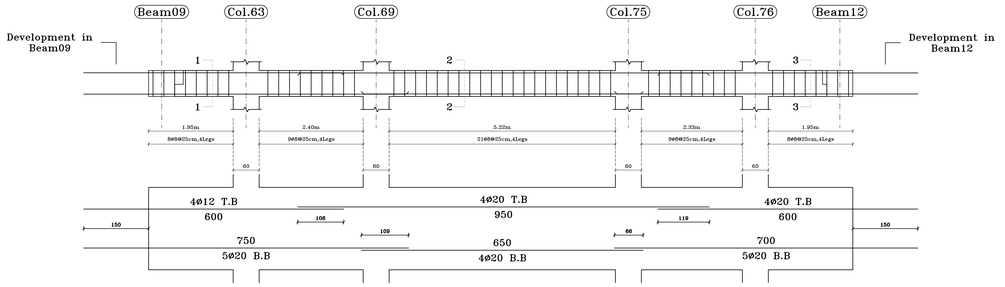
Eng. Sufian Al-Turk

SCALE:

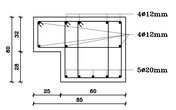
1/50

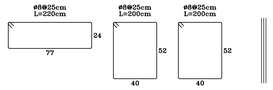
S113

Beam (21) – Second Floor

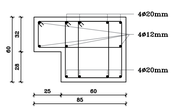


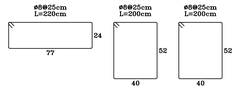
Section (1-1)
Scale 1:20



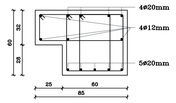


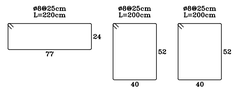
Section (2-2)
Scale 1:20



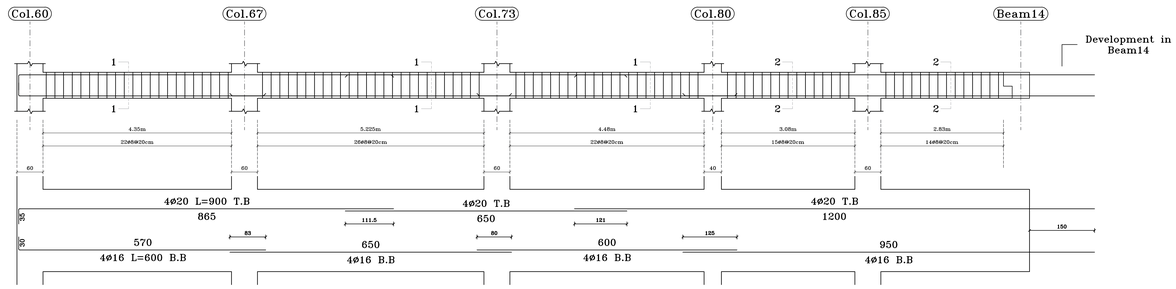


Section (3-3)
Scale 1:20

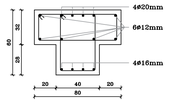


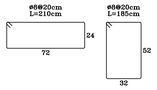


Beam (22) – Second Floor

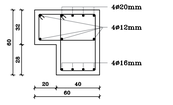


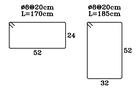
Section (1-1)
Scale 1:20





Section (2-2)
Scale 1:20





Palestine Polytechnic University
رابطة الجامعيين - الخليل

N

NOTES:

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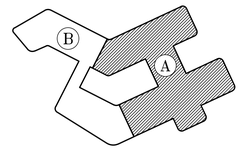


Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
Second Floor

Supervisor :

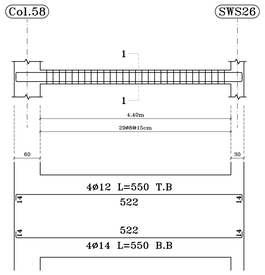
Eng. Sufian Al-Turk

SCALE:

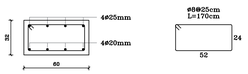
1/50

S114

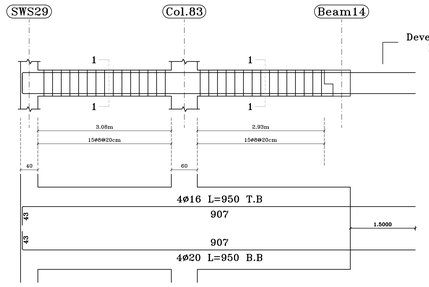
Beam (23) – Second Floor



Section (1–1)
Scale 1:20

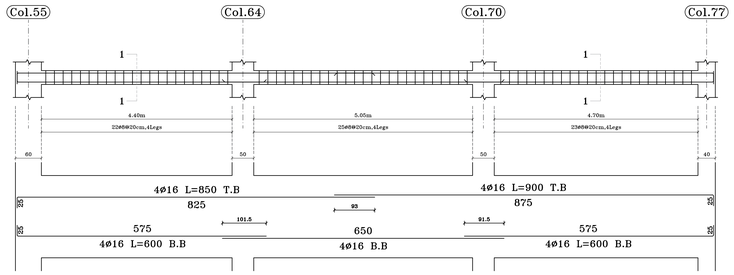


Beam (24) – Second Floor



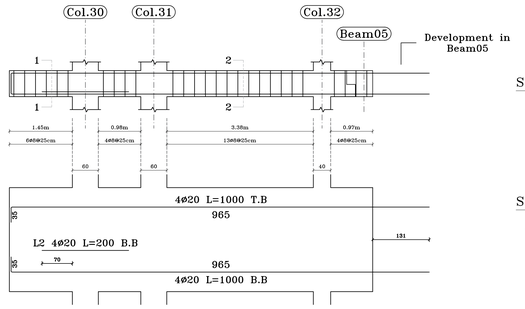
Section (1–1)
Scale 1:20

Beam (25) – Second Floor

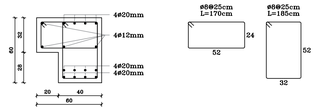


Section (1–1)
Scale 1:20

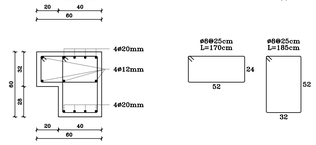
Beam (26) – Second Floor



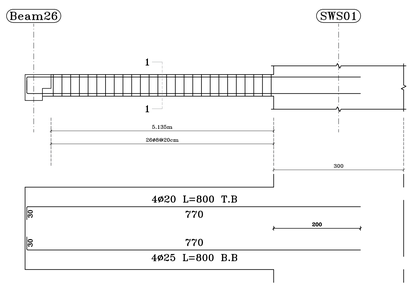
Section (1–1)
Scale 1:20



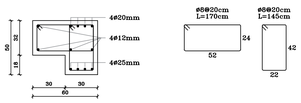
Section (2–2)
Scale 1:20



Beam (27) – Second Floor



Section (1–1)
Scale 1:20



NOTES:

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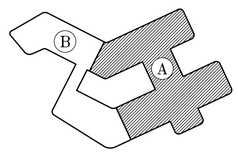
All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
Second Floor

Supervisor :

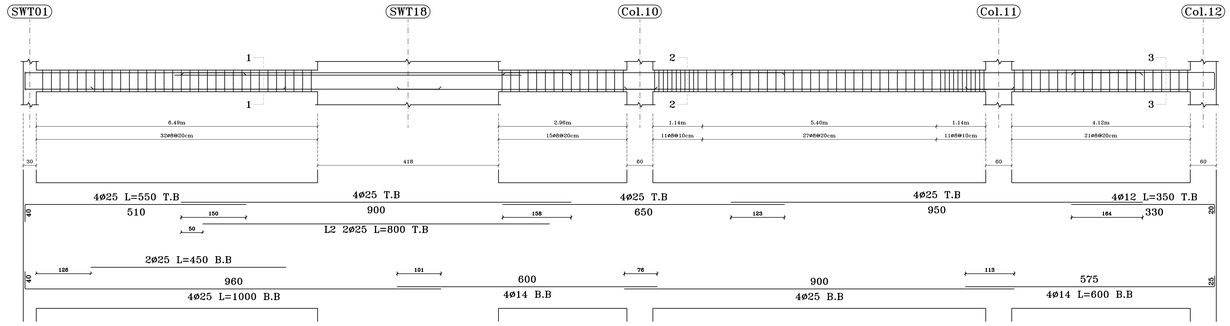
Eng. Sufian Al-Turk

SCALE:

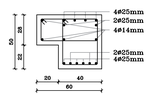
1/50

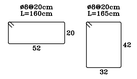
S115

Beam (01) – Third Floor

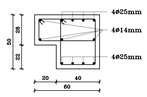


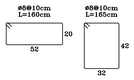
Section (1–1)
Scale 1:20



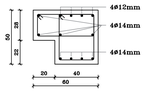


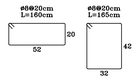
Section (2–2)
Scale 1:20



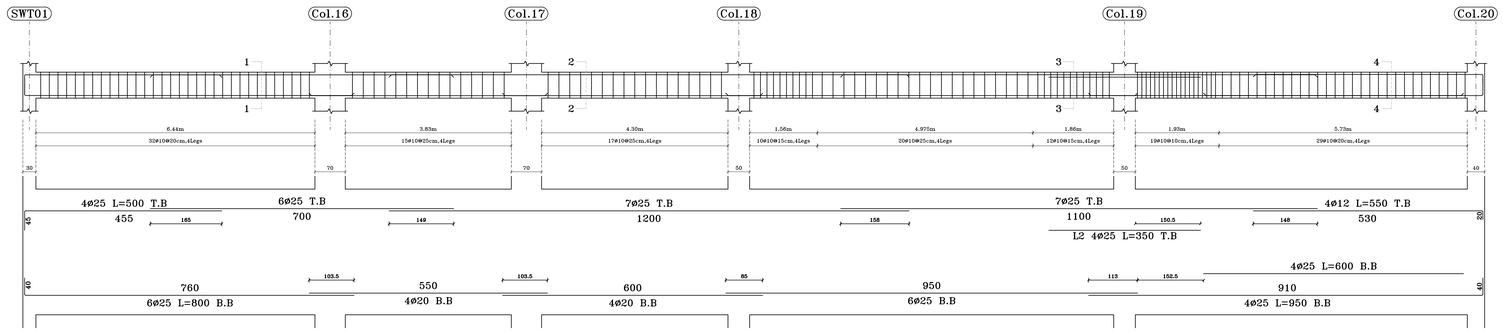


Section (3–3)
Scale 1:20

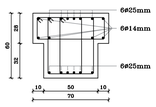


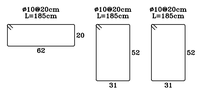


Beam (02) – Third Floor

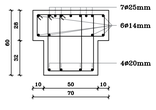


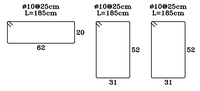
Section (1–1)
Scale 1:20



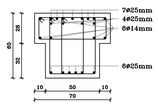


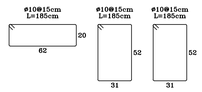
Section (2–2)
Scale 1:20



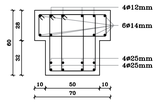


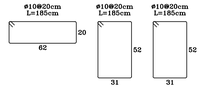
Section (3–3)
Scale 1:20





Section (4–4)
Scale 1:20



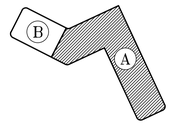


N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
Third Floor

Supervisor :

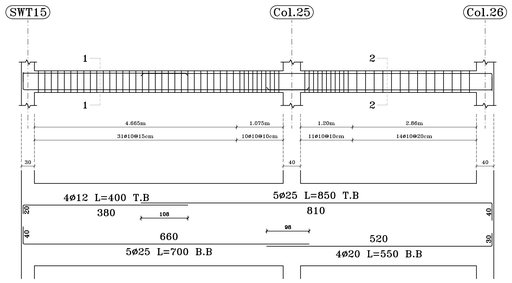
Eng. Sufian Al-Turk

SCALE:

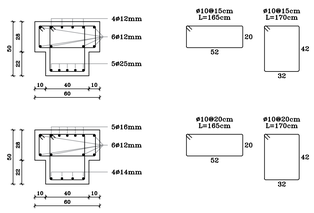
1/50

S116

Beam (03) – Third Floor

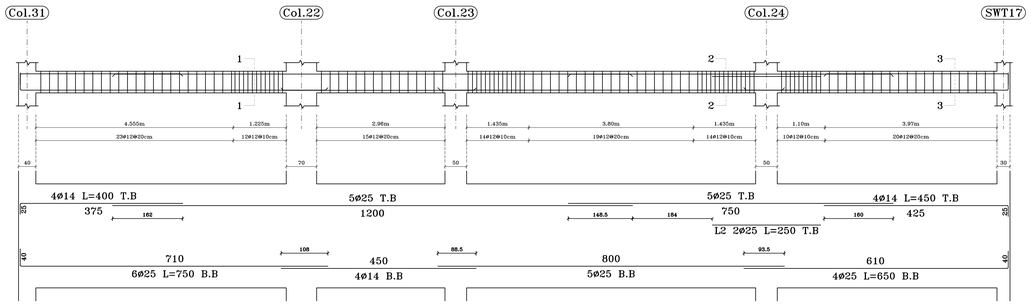


Section (1–1)
Scale 1:20

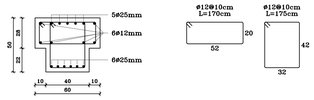


Section (1–1)
Scale 1:20

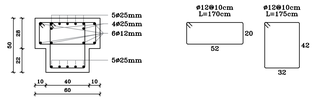
Beam (04) – Third Floor



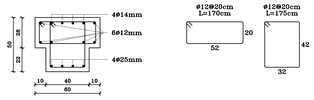
Section (1–1)
Scale 1:20



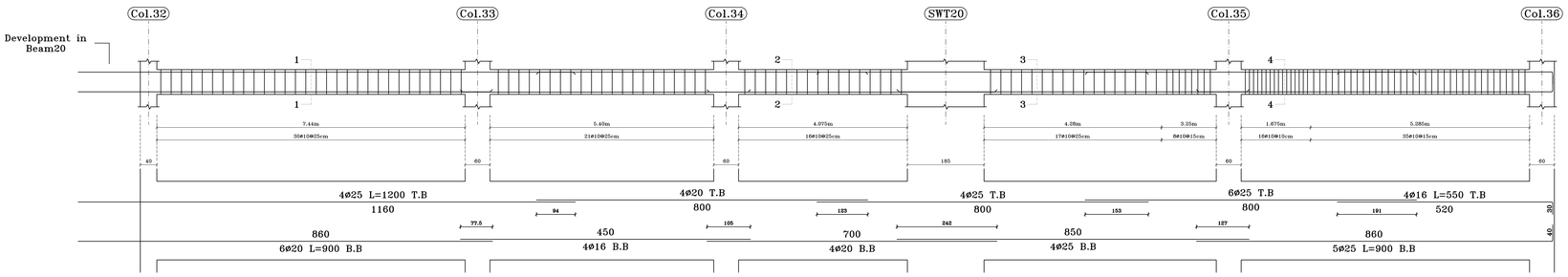
Section (2–2)
Scale 1:20



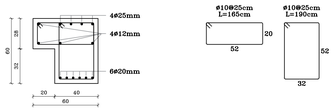
Section (3–3)
Scale 1:20



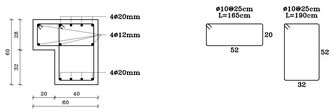
Beam (05) – Third Floor



Section (1–1)
Scale 1:20



Section (2–2)
Scale 1:20



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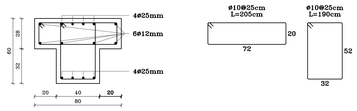
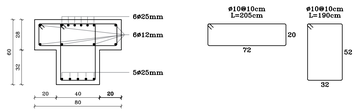
Scale 1:20



Section (4–4)
Scale 1:20



NOTES:

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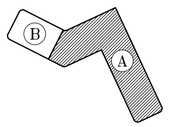
All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details Third Floor

Supervisor :

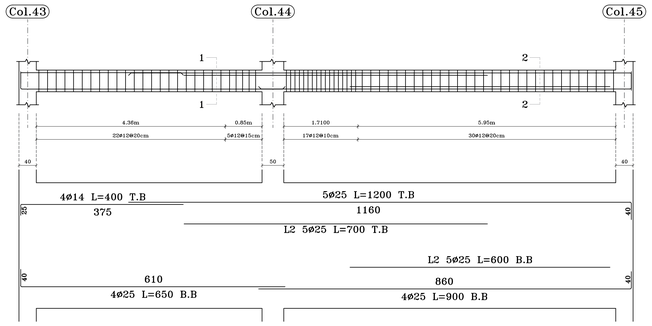
Eng. Sufian Al-Turk

SCALE:

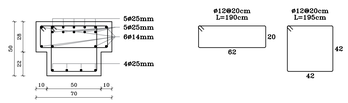
1/50

S117

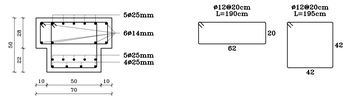
Beam (06) – Third Floor



Section (1-1)
Scale 1:20



Section (2-2)
Scale 1:20



Beam (07) – Third Floor

Section (1-1)
Scale 1:20

Section (2-2)
Scale 1:20

Beam (08) – Third Floor

Section (1-1)
Scale 1:20

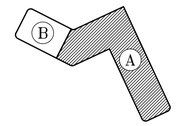
Section (2-2)
Scale 1:20

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
Third Floor

Supervisor :

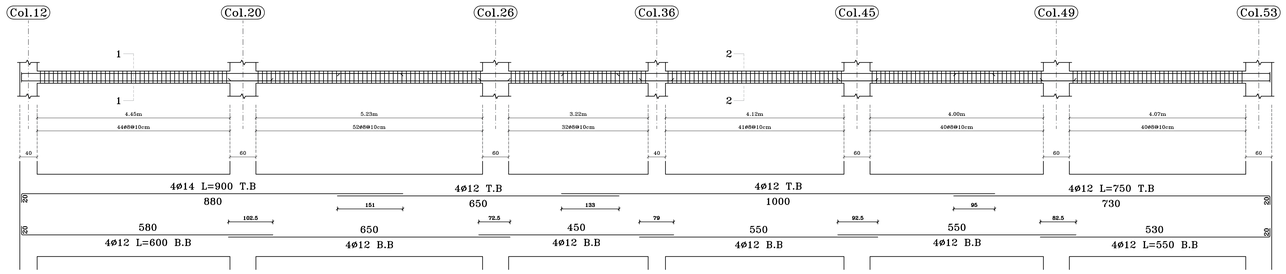
Eng. Sufian Al-Turk

SCALE:

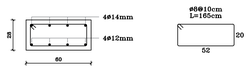
1/50

S118

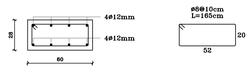
Beam (09) – Third Floor



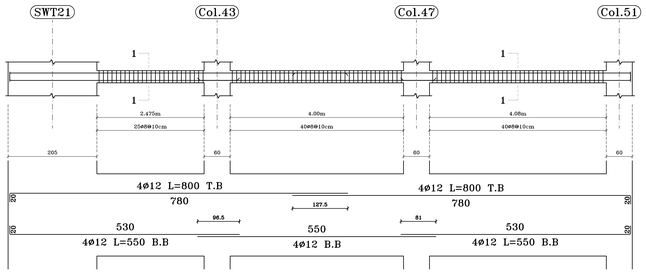
Section (1–1)
Scale 1:20



Section (2–2)
Scale 1:20

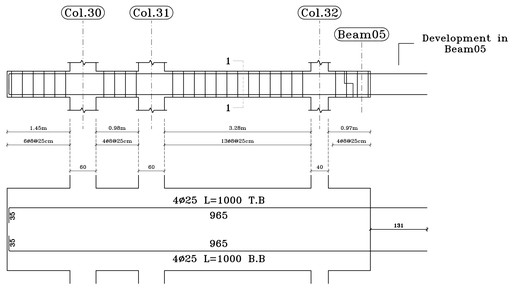


Beam (10) – Third Floor

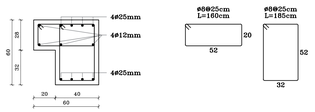


Section (1–1)
Scale 1:20

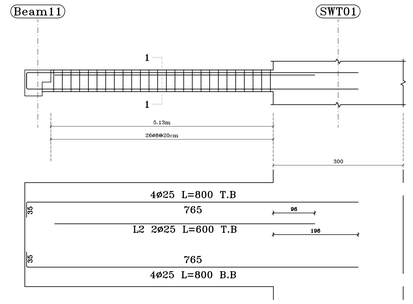
Beam (11) – Third Floor



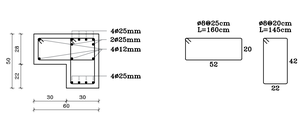
Section (1–1)
Scale 1:20



Beam (12) – Third Floor



Section (1–1)
Scale 1:20



NOTES:

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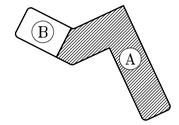
All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
Third Floor

Supervisor :

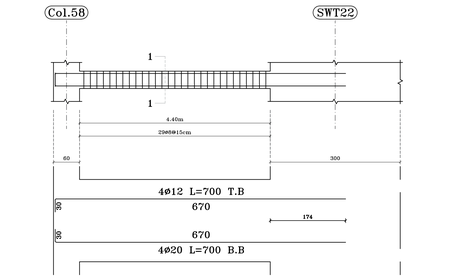
Eng. Sufian Al-Turk

SCALE:

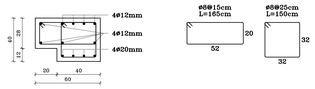
1/50

S119

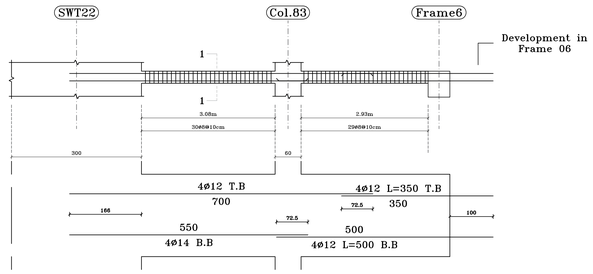
Beam (13) – Third Floor



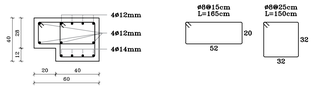
Section (1-1)
Scale 1:20



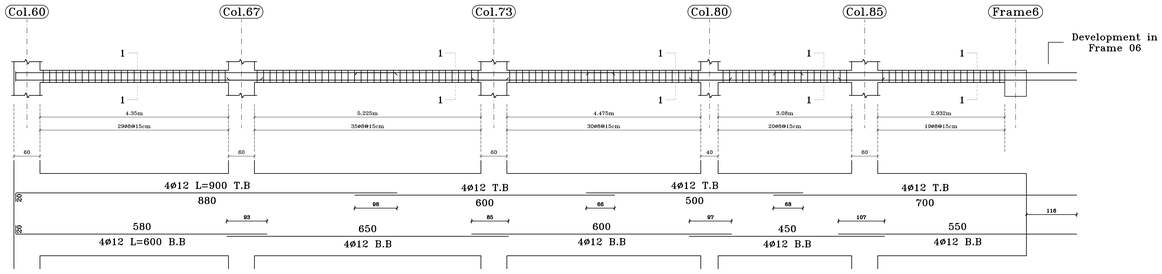
Beam (14) – Third Floor



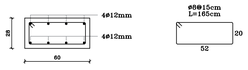
Section (1-1)
Scale 1:20



Beam (15) – Third Floor



Section (1-1)
Scale 1:20



NOTES:

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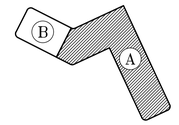


Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details
Third Floor

Supervisor :

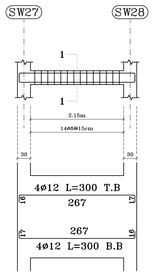
Eng. Sufian Al-Turk

SCALE:

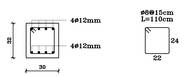
1/50

S120

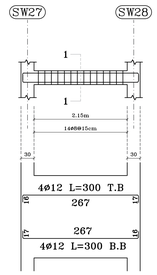
Beam (a-01)



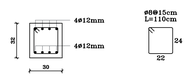
Section (1-1)
Scale 1:20



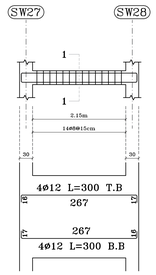
Beam (a-02)



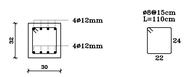
Section (1-1)
Scale 1:20



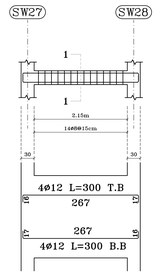
Beam (a-03)



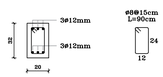
Section (1-1)
Scale 1:20



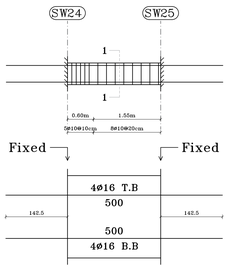
Beam (a-04)



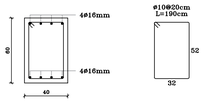
Section (1-1)
Scale 1:20



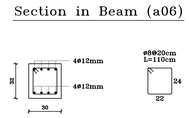
Beam (a-05)



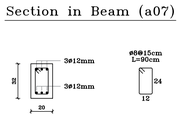
Section (1-1)
Scale 1:20



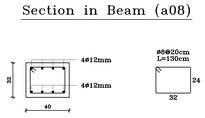
Section in Beam (a06)



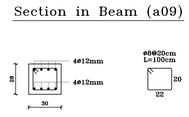
Section in Beam (a07)



Section in Beam (a08)



Section in Beam (a09)



Scale 1:20

N

NOTES:

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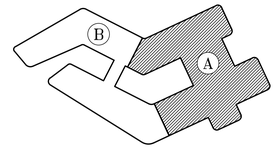


Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Part (A) - Beams Details Near Openings Beams

Supervisor :

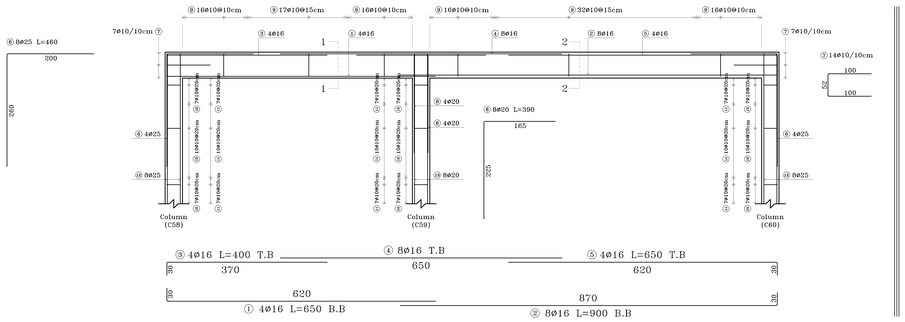
Eng. Sufian Al-Turk

SCALE:

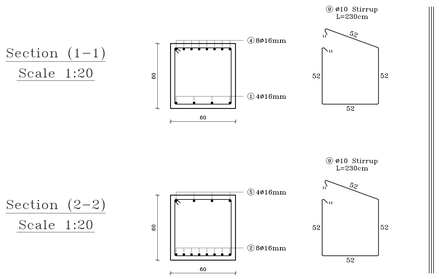
1/50

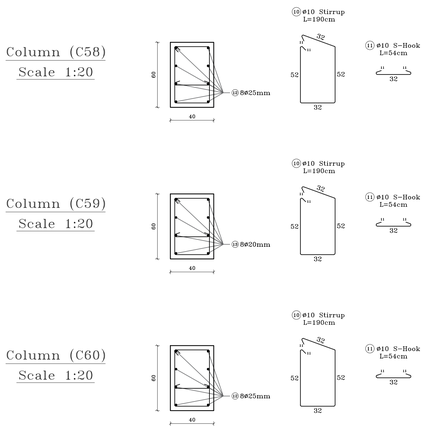
S121

FRAME-01

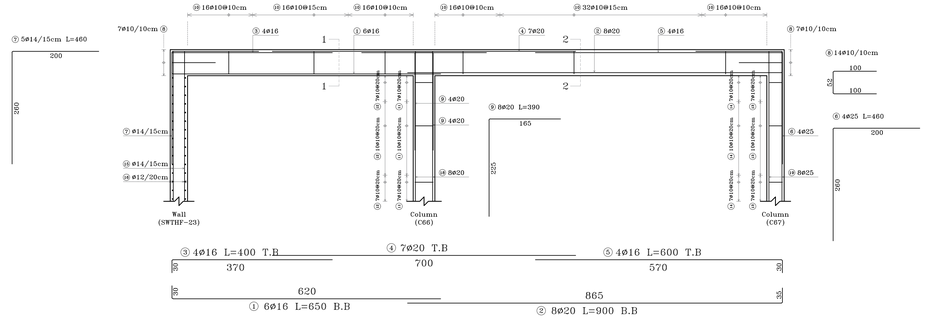


FRAME SECTIONS

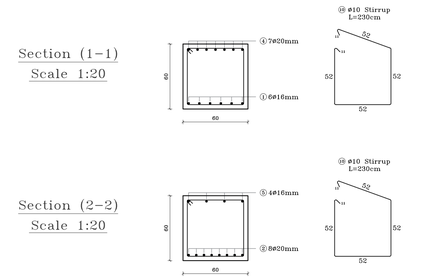


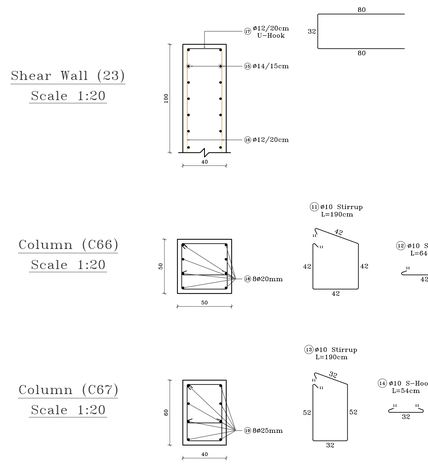


FRAME-02



FRAME SECTIONS



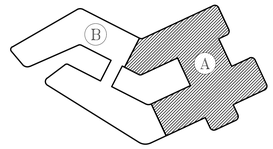


N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Frame Reinforcement

Supervisor :

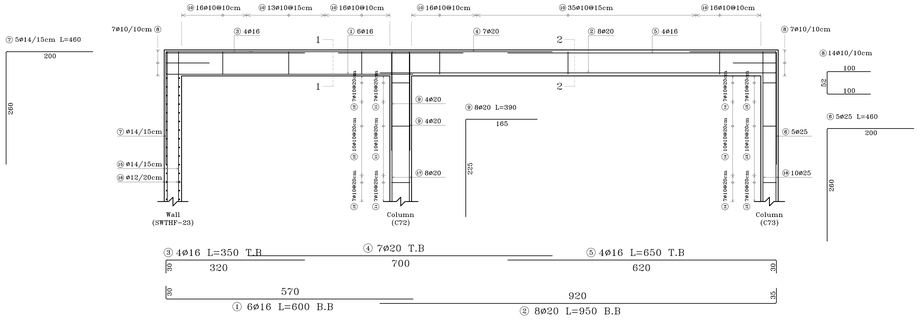
Eng. Sufian Al-Turk

SCALE:

1/50

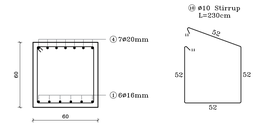
S122

FRAME-03

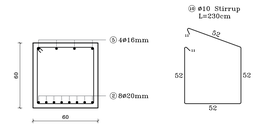


FRAME SECTIONS

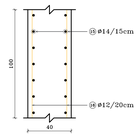
Section (1-1)
Scale 1:20



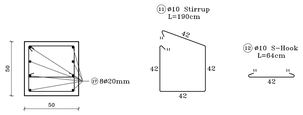
Section (2-2)
Scale 1:20



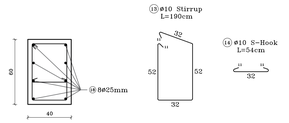
Shear Wall (23)
Scale 1:20



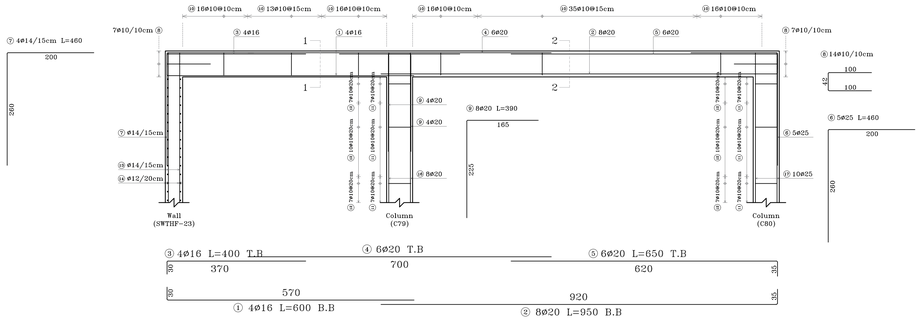
Column (C72)
Scale 1:20



Column (C73)
Scale 1:20

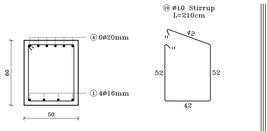


FRAME-04

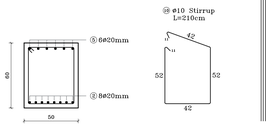


FRAME SECTIONS

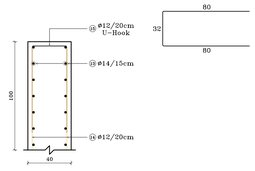
Section (1-1)
Scale 1:20



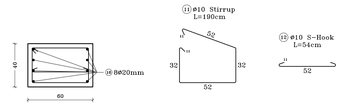
Section (2-2)
Scale 1:20



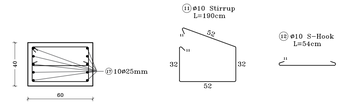
Shear Wall (23)
Scale 1:20



Column (C79)
Scale 1:20



Column (C80)
Scale 1:20

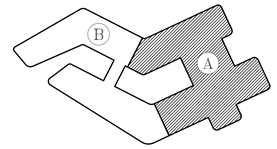


N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

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NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Frame Reinforcement

Supervisor :

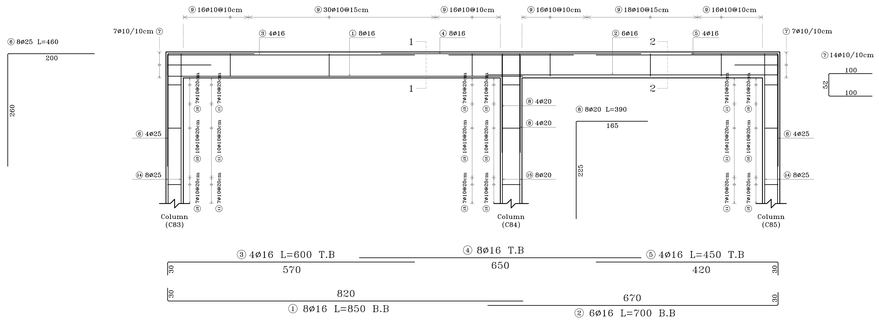
Eng. Sufian Al-Turk

SCALE:

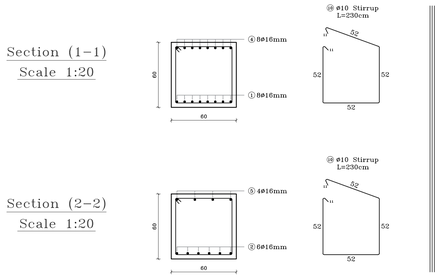
1/50

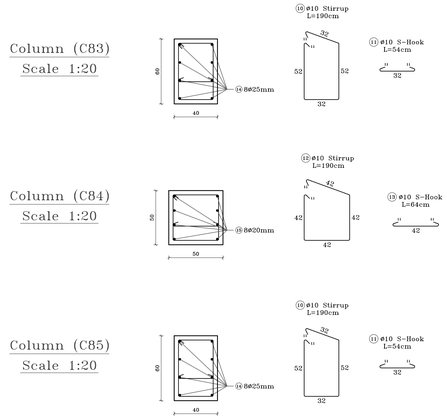
S123

FRAME-05

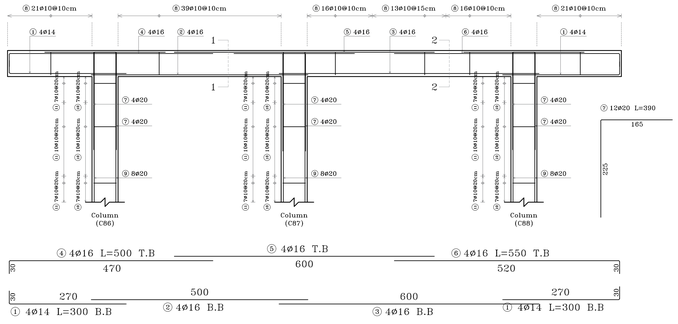


FRAME SECTIONS

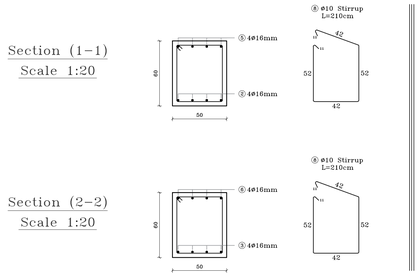


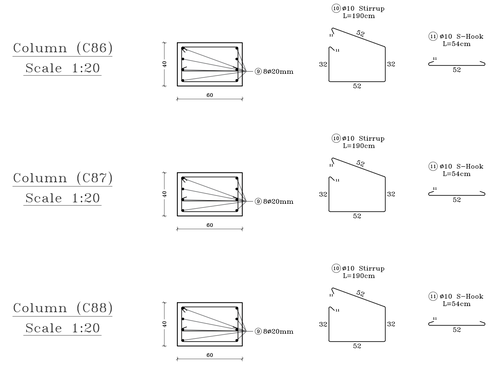


FRAME-06



FRAME SECTIONS





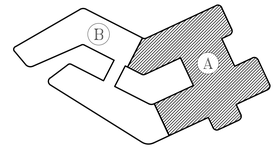
Palestine Polytechnic University
رابطة الجامعيين - الخليل
جامعة بوليتكنك فلسطين

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.



Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Frame Reinforcement

Supervisor :

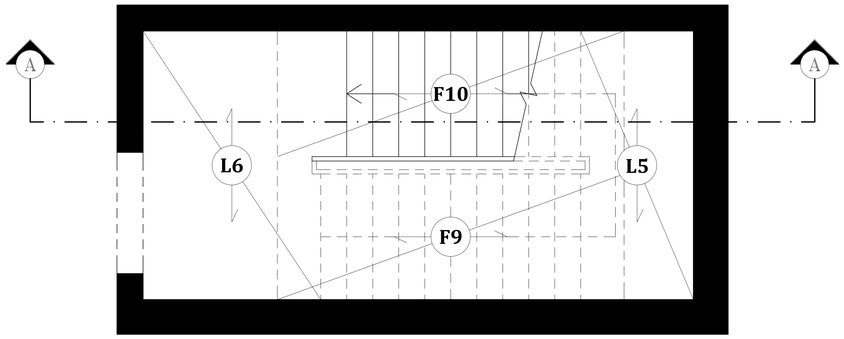
Eng. Sufian Al-Turk

SCALE:

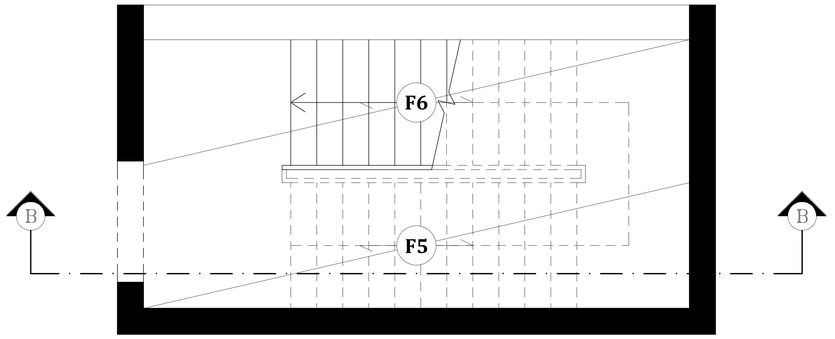
1/50

S124

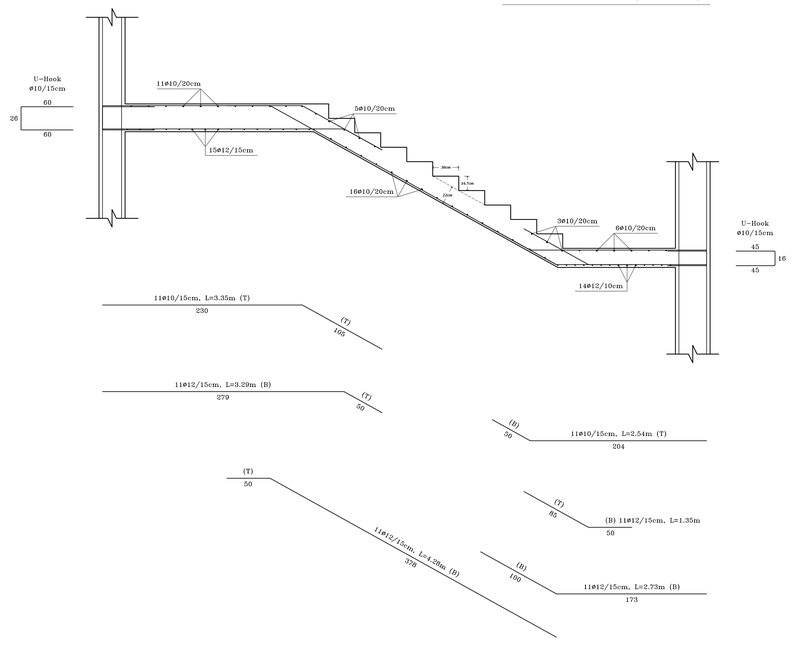
System (1)



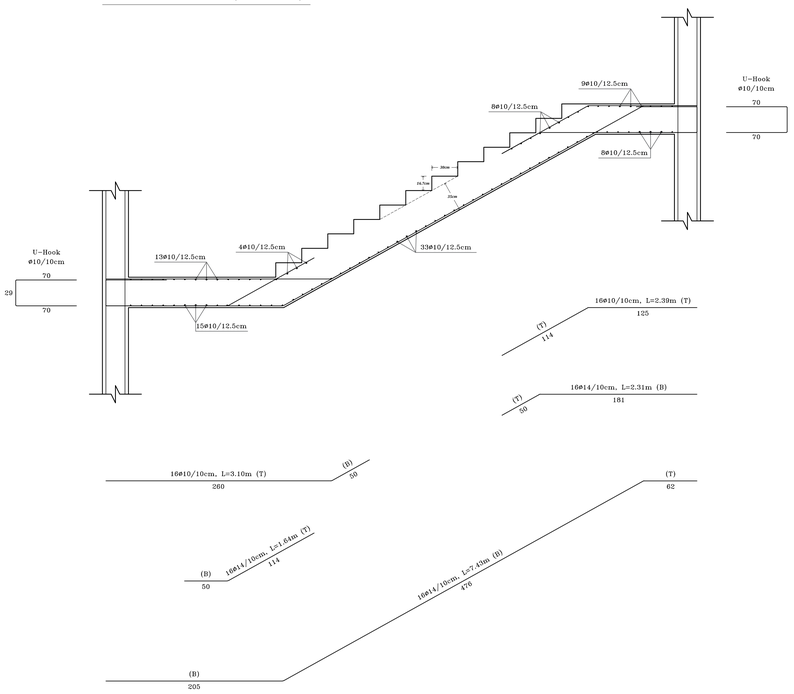
System (2)



Section (A–A)



Section (B–B)



NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Stairs Design

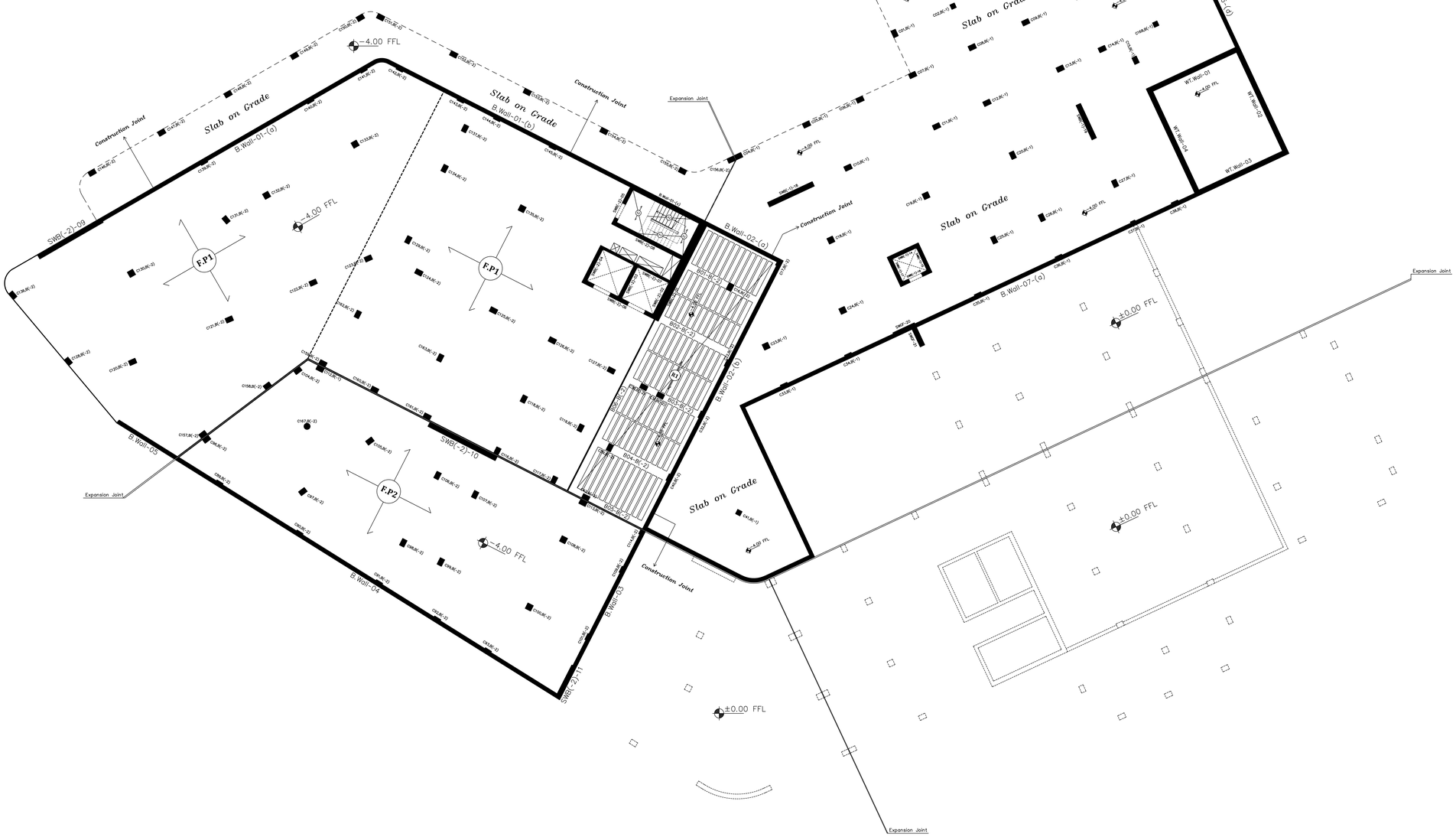
Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/25

S125


Slab on Grade
B.Wall-01-(a)
B.Wall-01-(b)
B.Wall-02-(a)
B.Wall-02-(b)
B.Wall-03
B.Wall-04
B.Wall-05
B.Wall-06-(a)
B.Wall-06-(b)
B.Wall-06-(c)
B.Wall-06-(d)
B.Wall-07-(a)
B.Wall-08
WT Wall-01
WT Wall-02
WT Wall-03
WT Wall-04
Construction Joint
Expansion Joint
SWB(-2)-09
SWB(-2)-10
SWB(-2)-11
SWB(-2)-12
SWB(-2)-13
SWB(-2)-14
SWB(-2)-15
SWB(-2)-16
SWB(-2)-17
SWB(-2)-18
SWB(-2)-19
SWB(-2)-20
SWB(-2)-21
SWB(-2)-22
SWB(-2)-23
SWB(-2)-24
SWB(-2)-25
SWB(-2)-26
SWB(-2)-27
SWB(-2)-28
SWB(-2)-29
SWB(-2)-30
SWB(-2)-31
SWB(-2)-32
SWB(-2)-33
SWB(-2)-34
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SWB(-2)-36
SWB(-2)-37
SWB(-2)-38
SWB(-2)-39
SWB(-2)-40
SWB(-2)-41
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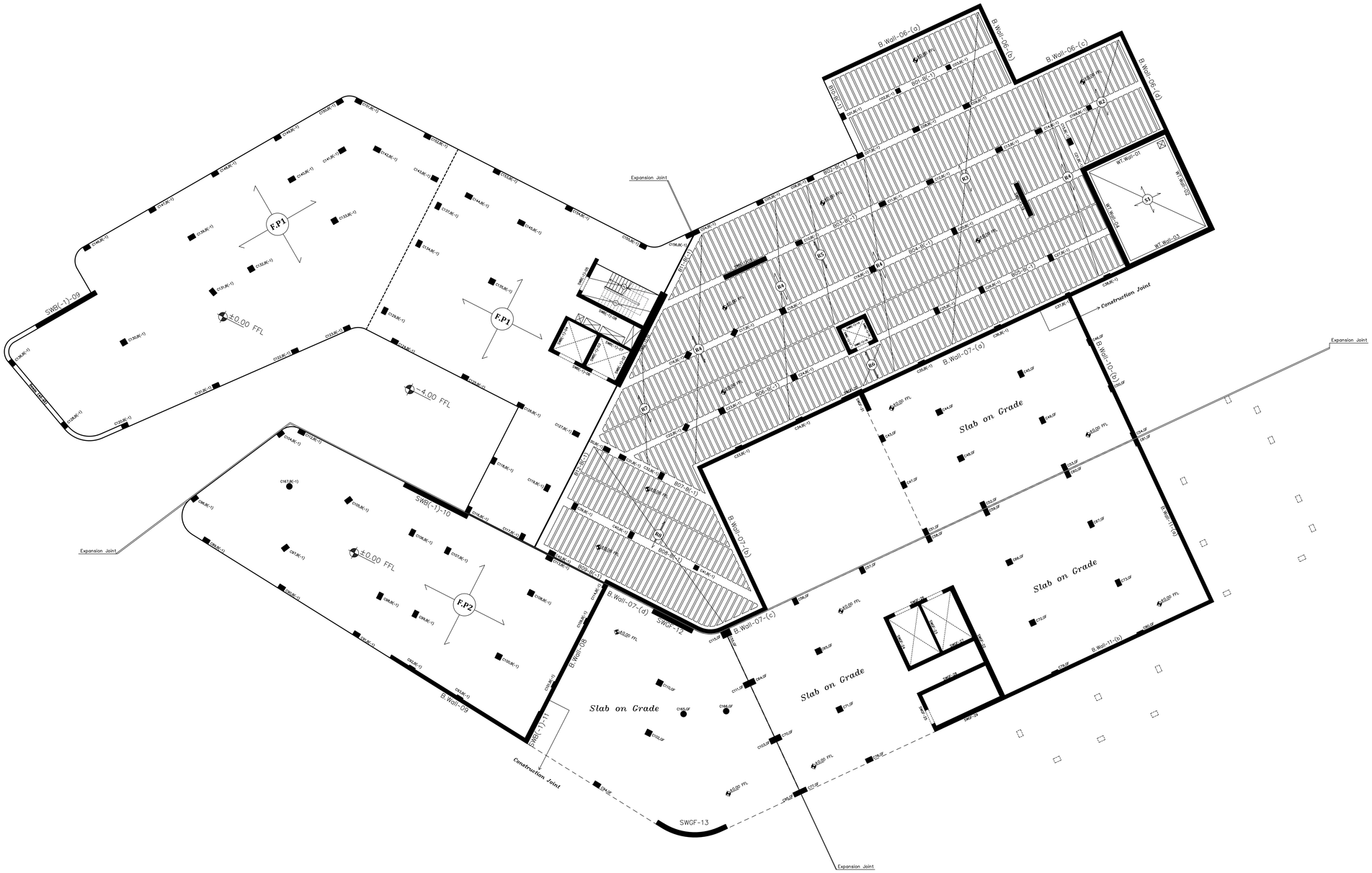
SWB(-2)-43
SWB(-2)-44
SWB(-2)-45
SWB(-2)-46
SWB(-2)-47
SWB(-2)-48



2 BASEMENT (−1) KEY PLAN

SCALE 1:150M

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Key Plan
Basement (-1)

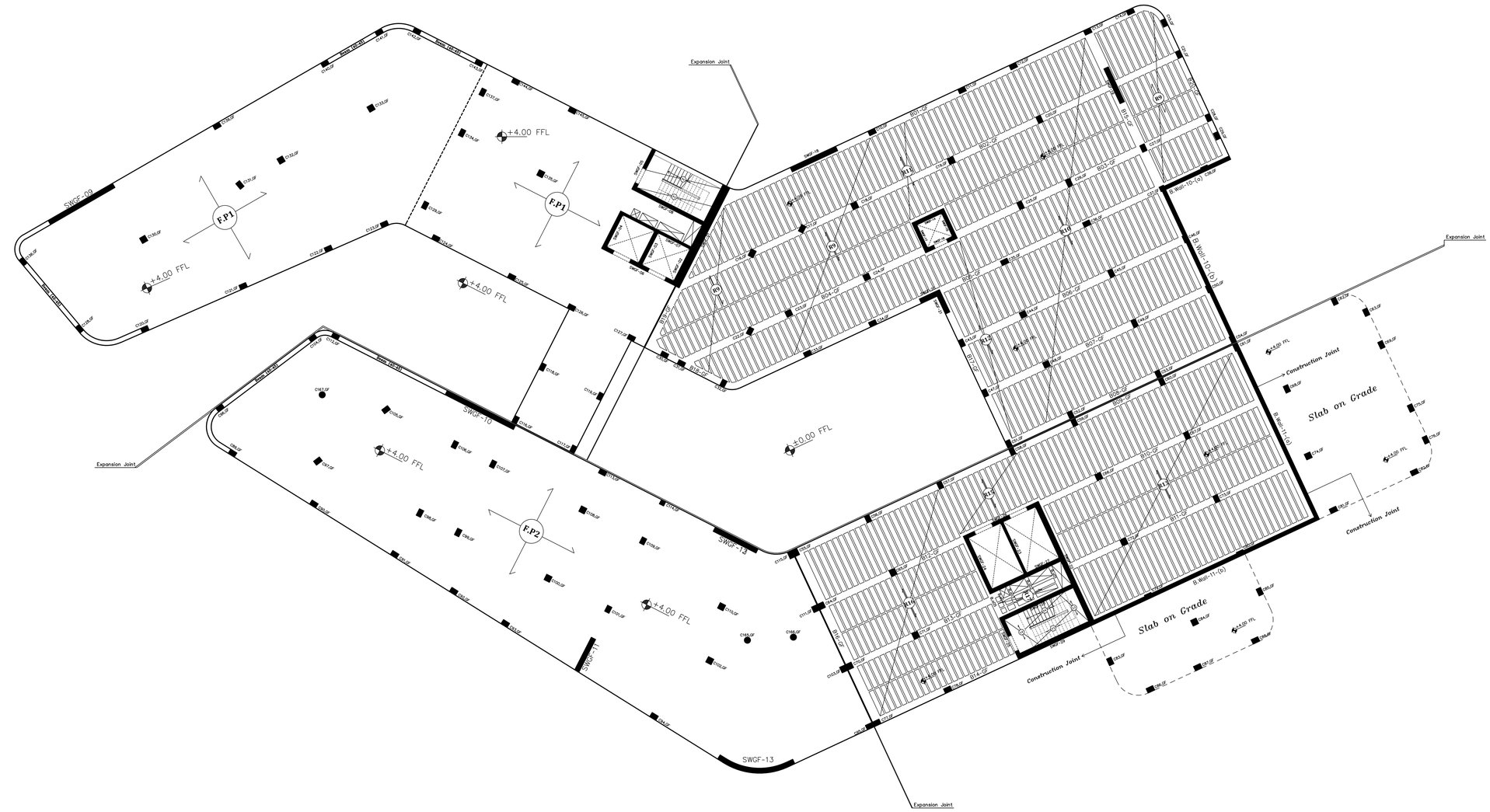
Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/150

S127



3 GROUND FLOOR KEY PLAN
SCALE 1:150M

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Key Plan
Ground Floor

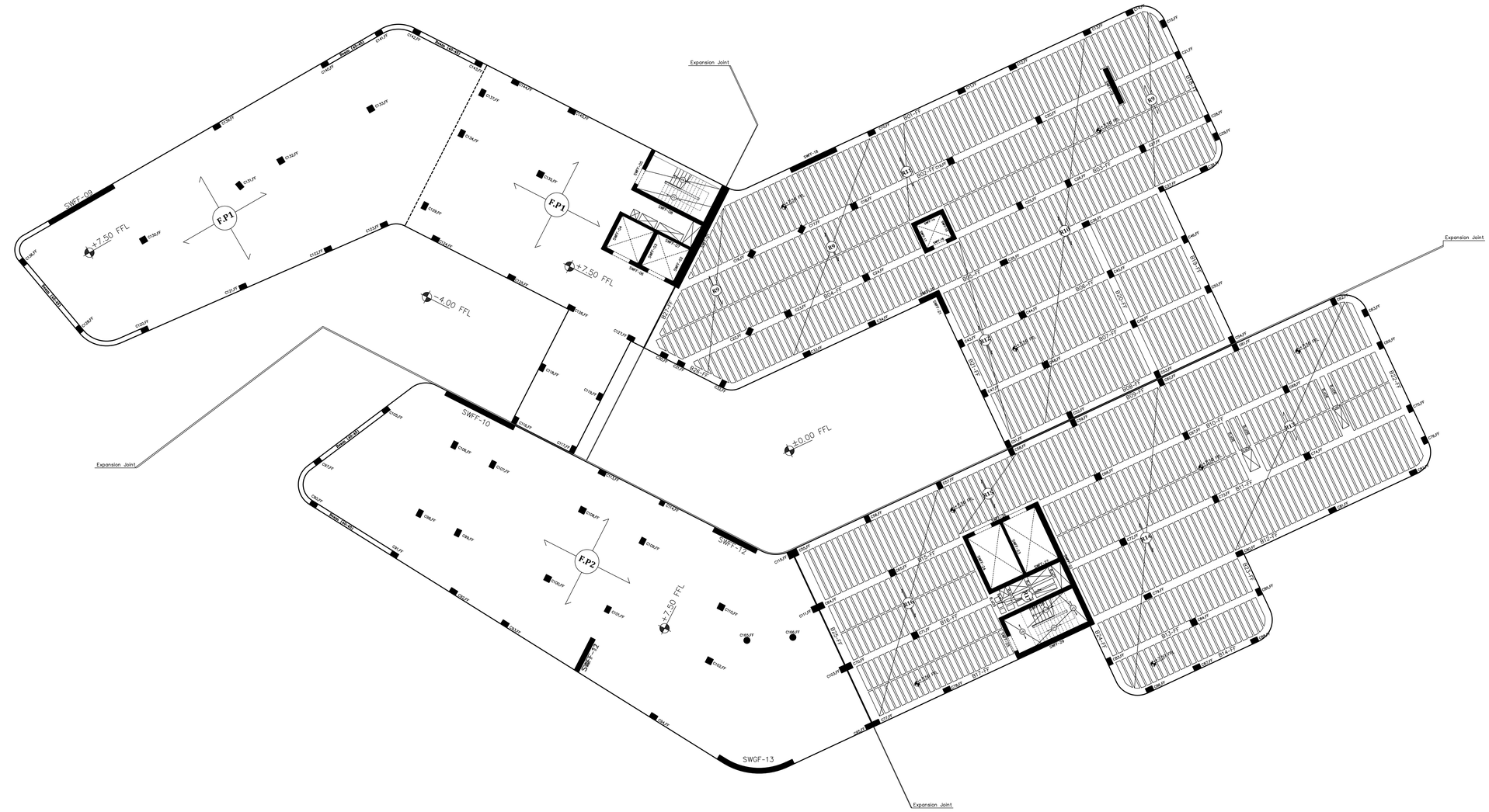
Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/150

S128


SWFF-09
SWFF-10
SWFF-11
SWFF-12
SWGF-13
Expansion Joint
Expansion Joint
Expansion Joint
F.P1
F.P1
F.P2
+7.50 FFL
+7.50 FFL
-4.00 FFL
±0.00 FFL
+2.50 FFL
R1.0
R1.1
R1.2
R1.3
R1.4
R1.5
R1.6
R1.7
R1.8
R1.9
R1.10
R1.11
R1.12
R1.13
R1.14
R1.15
R1.16
R1.17
R1.18
R1.19
R1.20
R1.21
R1.22
R1.23
R1.24
R1.25
R1.26
R1.27
R1.28
R1.29
R1.30
R1.31
R1.32
R1.33
R1.34
R1.35
R1.36
R1.37
R1.38
R1.39
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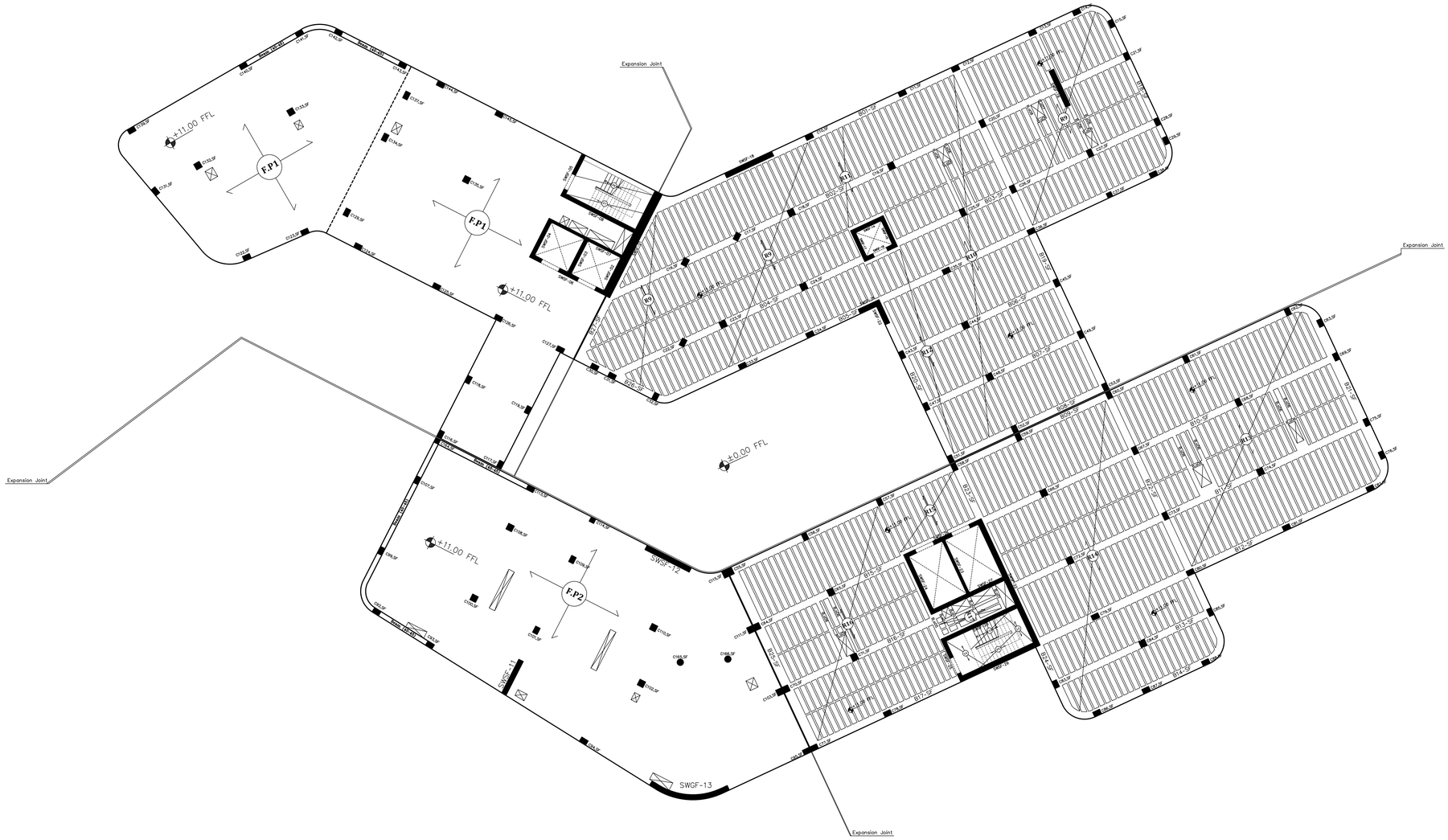
R1.48
R1.49



5 SECOND FLOOR KEY PLAN
SCALE 1:150M

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Key Plan
Second Floor

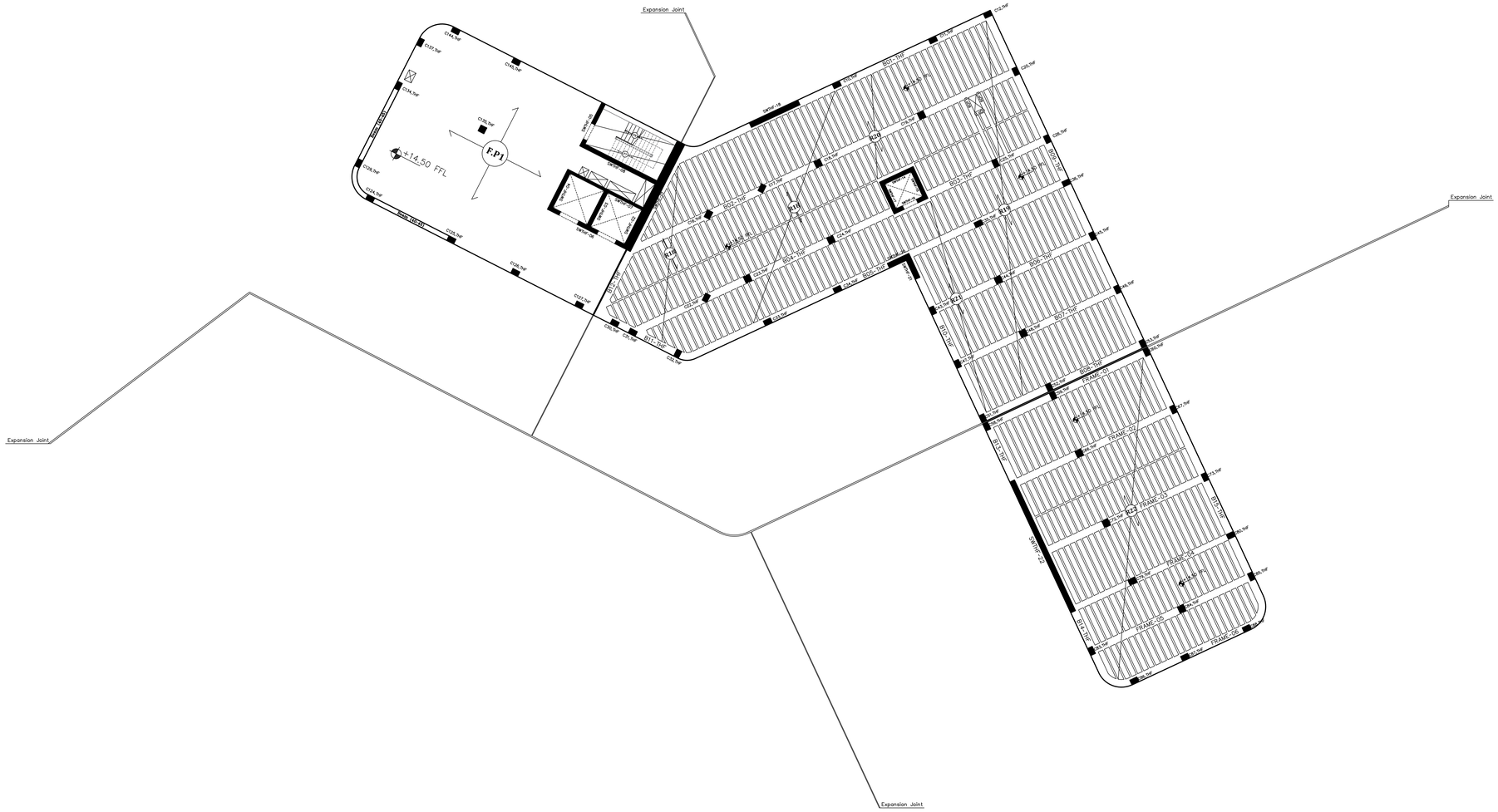
Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/150

S130



6 THIRD FLOOR KEY PLAN
SCALE 1:150M

N

NOTES:

All dimensions are in meters unless otherwise shown.

All spot levels are in meters.

Palestine Polytechnic University

Civil. & Arch. Eng. Department

Building Engineering

Designed By:

ANAS HASHLAMOUN
NAJI SAID
QUSAI ABU RAYYAN

Drawing Title :

Key Plan
Third Floor

Supervisor :

Eng. Sufian Al-Turk

SCALE:

1/150

S131