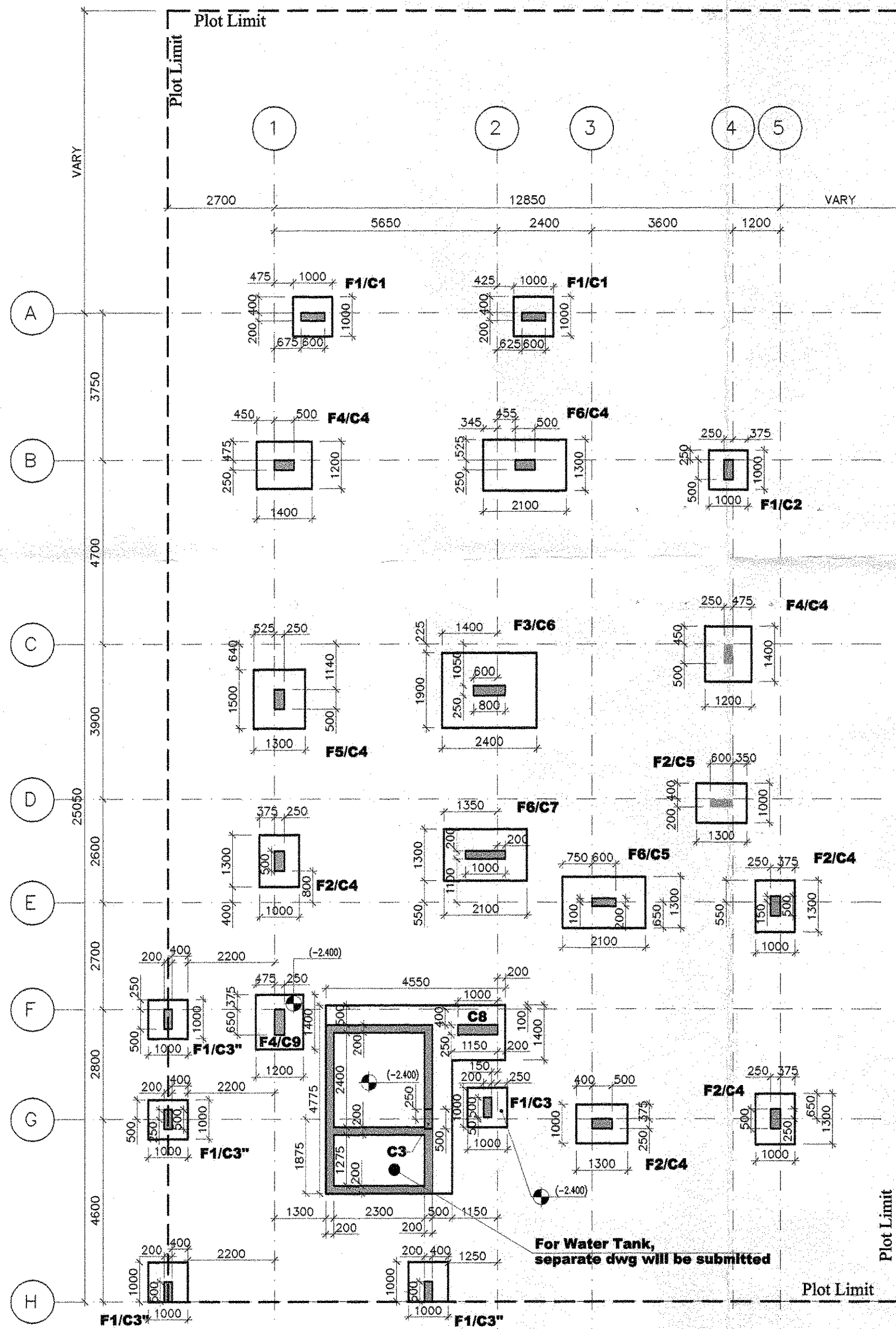
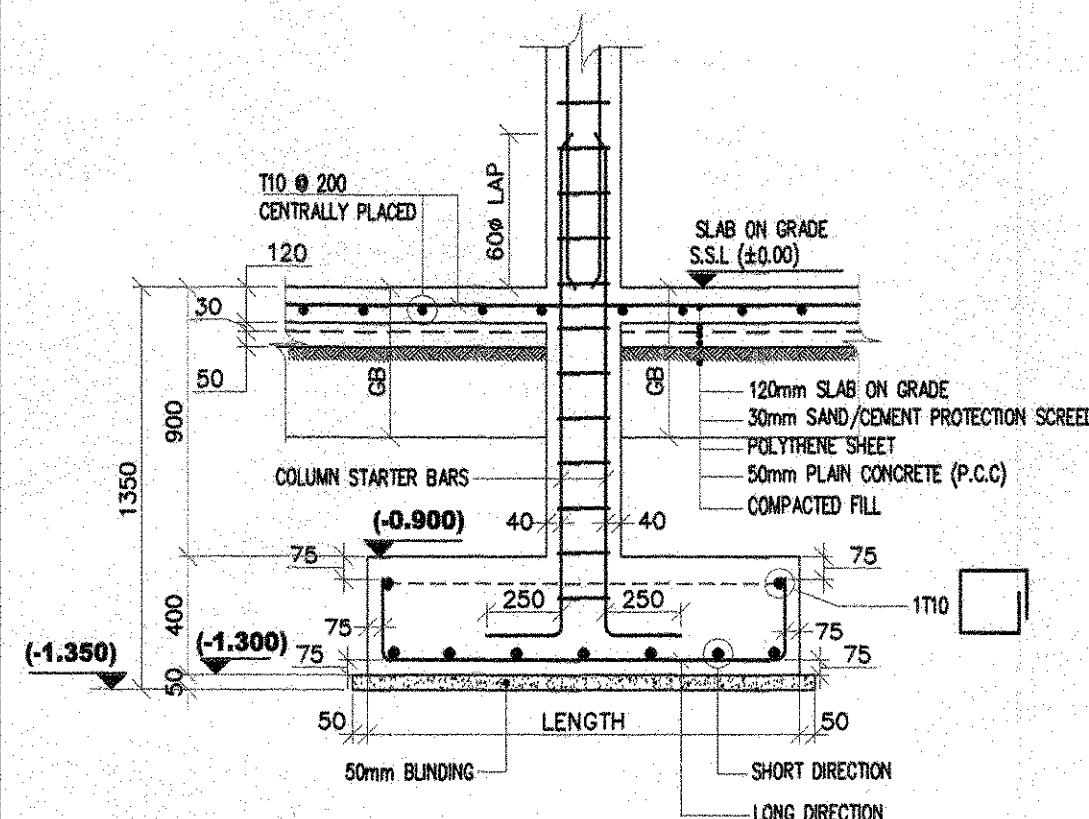




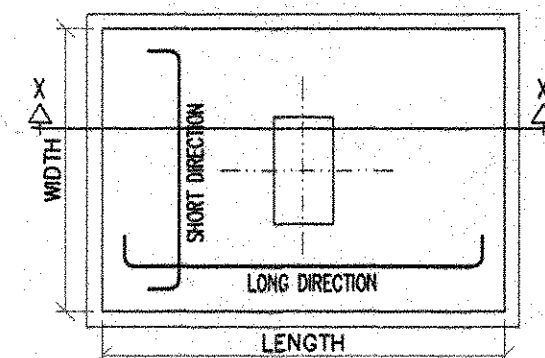
FOUNDATION & COLUMN NECK LAYOUT PLAN
FOR BEARING CAPACITY (2Kg/cm²)

Scale 1:100

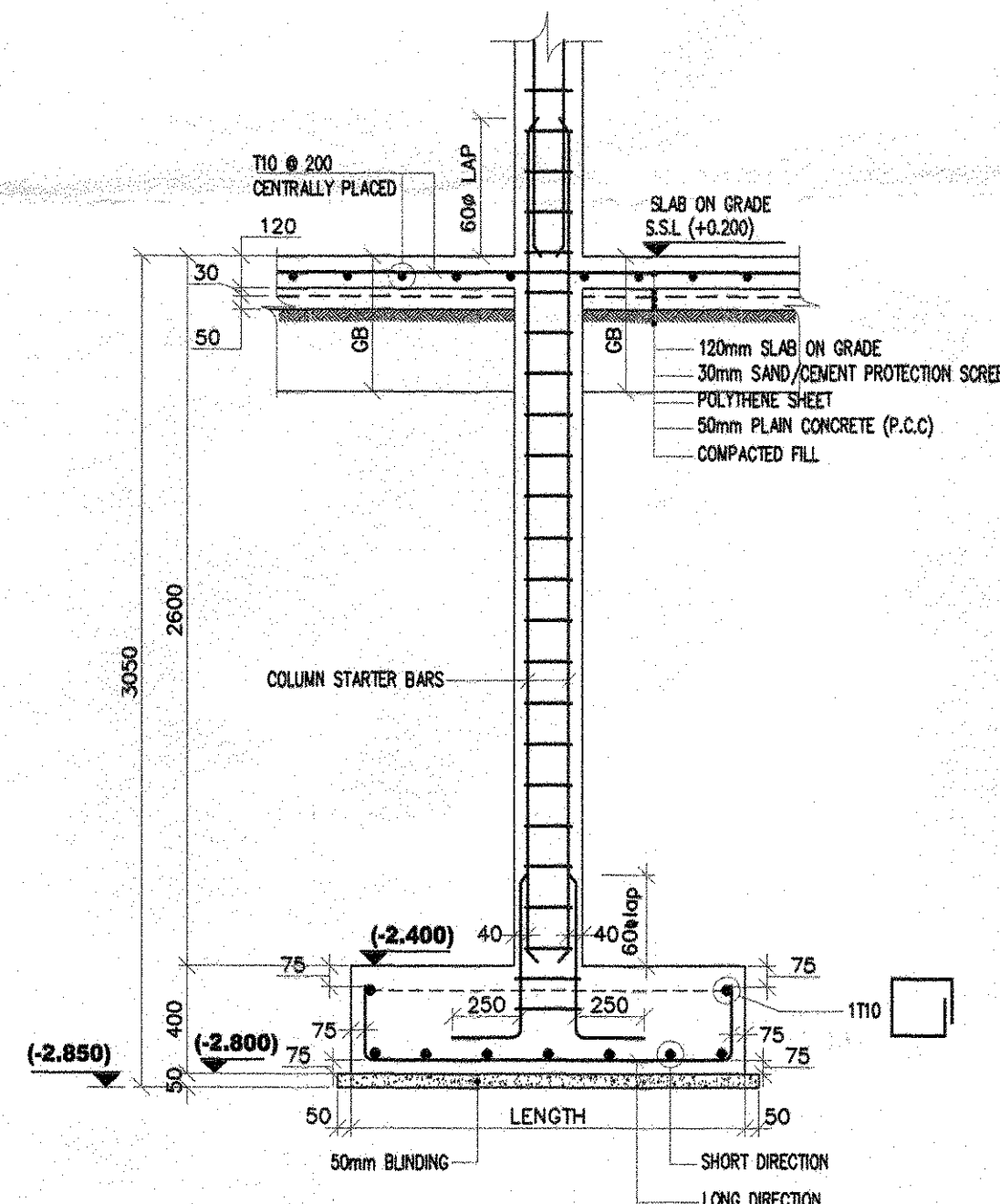
SCHEDULE OF FOOTINGS FOR BEARING CAPACITY (2Kg/cm ²)						
TYPE	DIMENSIONS			STEEL REINFORCEMENT		
	WIDTH	LENGTH	DEPTH	Short direction	Long direction	Face Bar
F1	1000	1000	400	T12 @ 150	T12 @ 150	1T10
F2	1000	1300	400	T12 @ 150	T12 @ 150	1T10
F3	1900	2400	400	T16 @ 150	T16 @ 150	1T10
F4	1200	1400	400	T12 @ 150	T12 @ 150	1T10
F5	1300	1500	400	T12 @ 150	T12 @ 150	1T10
F6	1300	2100	400	T16 @ 150	T16 @ 150	1T10



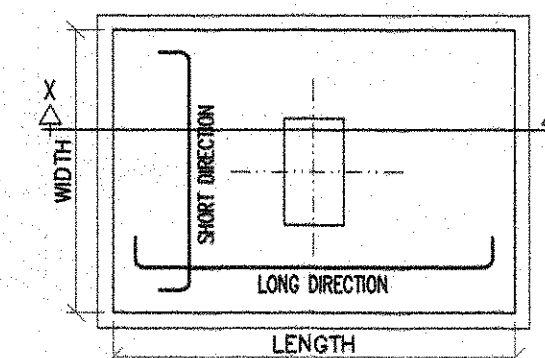
Typical Section for Column C3
SECTION X - X



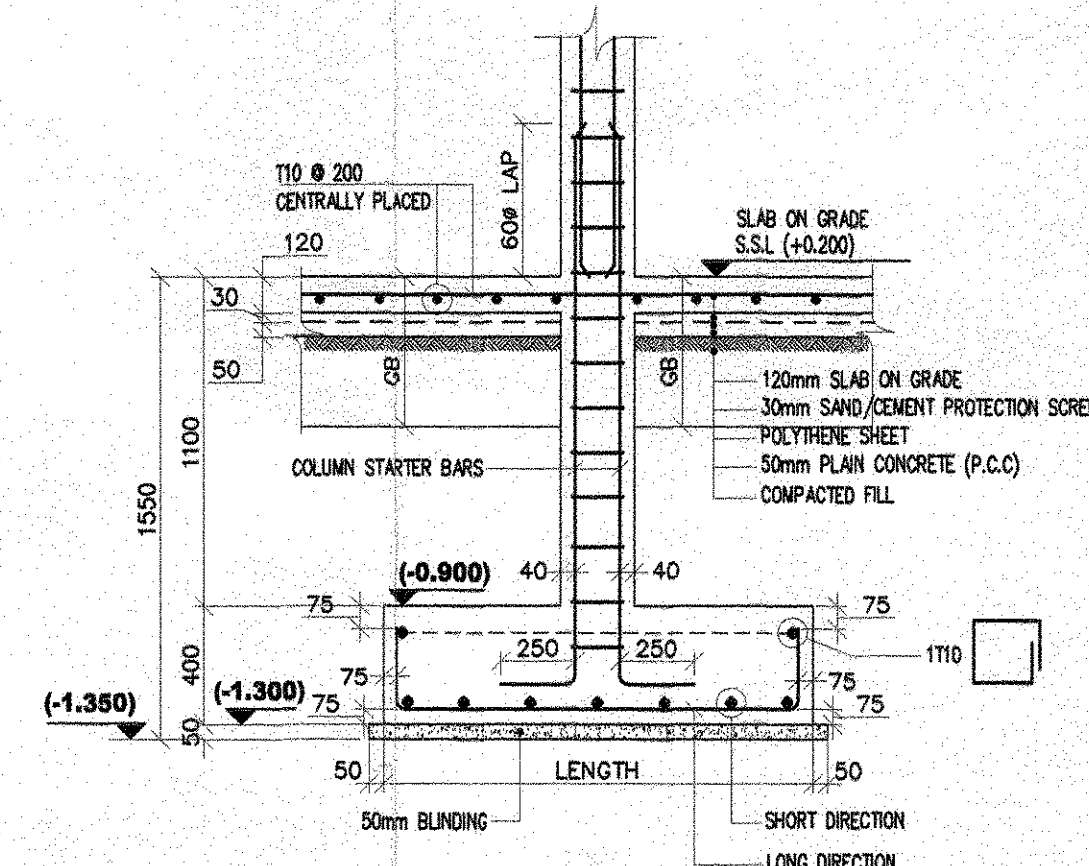
Typical Footing Plan



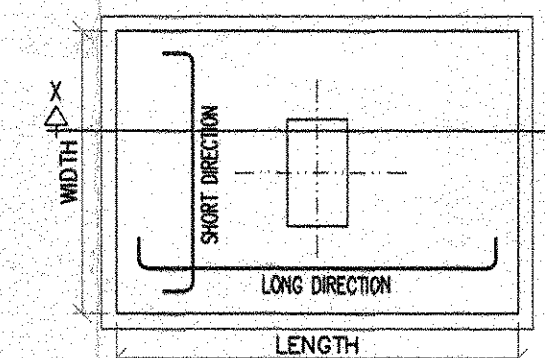
Typical Section for Column C3, C8 & C9
SECTION X - X



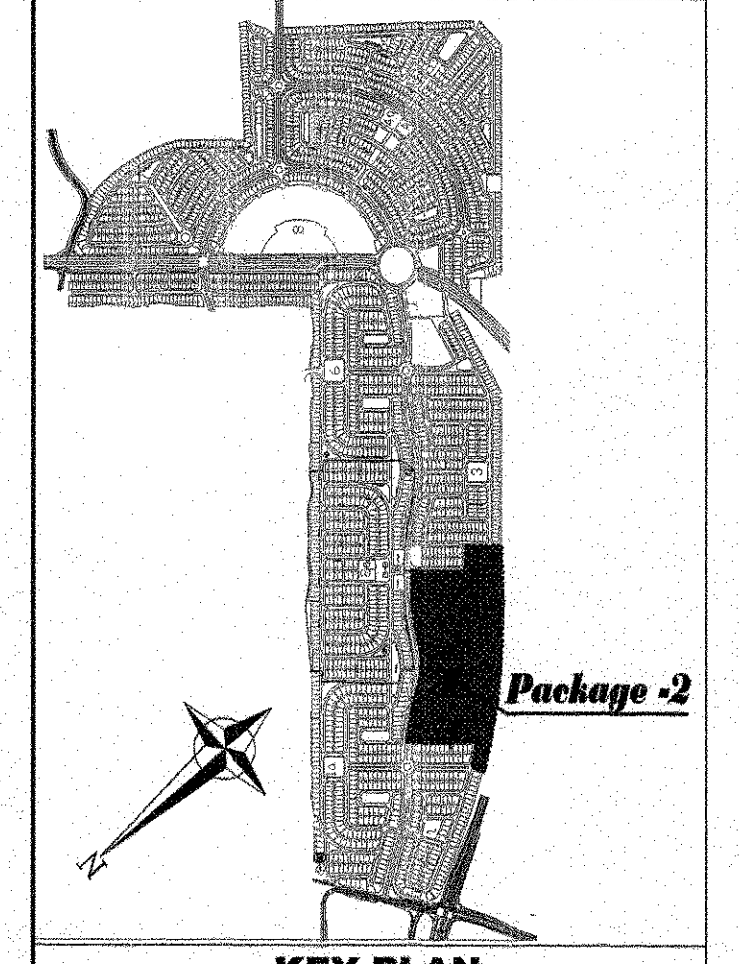
Typical Footing Plan



Typical Section
SECTION X - X



Typical Footing Plan



KEY PLAN

- NOTES:-**
- 1) ALL DIMENSIONS ARE IN MM AND LEVELS ARE METERS UNLESS NOTED OTHERWISE.
 - 2) ALL REINFORCEMENT EXCEPT TIES & STIRRUPS UNLESS OTHERWISE INDICATED TO BE HIGH TENSILE STEEL TO BS 4449 HAVING A MINIMUM YIELD STRESS $f_y = 420 \text{ MPa}$ (DESIGNATED BY Φ).
 - 3) ALL REINFORCED CONCRETE SHOULD HAVE A MINIMUM CRUSHING STRENGTH ON CYLINDER AT 28 DAYS: $f_c = 35 \text{ MPa}$.
 - 4) ALL PLAIN CONCRETE SHOULD HAVE A MINIMUM CRUSHING STRENGTH ON CYLINDER AT 28 DAYS: $f_c = 14 \text{ MPa}$.
 - 5) ALL REINFORCED CONCRETE SUB STRUCTURES ARE TO BE MADE WITH GGBS ACCORDING TO ASTM C150.
 - 6) ALL SPLICES OF REINFORCEMENT SHOULD BE MIN. 60 BAR DIAMETER.
 - 7) UNLESS OTHERWISE NOTED, THE FOLLOWING NOMINAL CONCRETE COVER TO ALL REINFORCING BARS SHALL BE ADOPTED:
 - a - FOR SLABS AND WALLS NOT EXPOSED TO EARTH OR WEATHER: 30mm.
 - b - FOR BASEMENT WALLS: 50mm.
 - c - FOR DROP BEAMS AND COLUMNS: 40mm.
 - d - FOR FOUNDATIONS: 75mm.
 - e - FOR ALL SURFACES IN CONTACT WITH WATER OR VAPOUR: 50mm.

dar al-handasah
Sheik and Partners

☒ CODE 1 APPROVED
☐ CODE 2 APPROVED AS NOTED
 WORK MAY PROCEED SUBJECT TO
 INCORPORATION OF ENDORSED
 COMMENTS
☐ CODE 3 RESUBMIT FOR APPROVAL
 WORK MAY NOT PROCEED
☐ CODE 4 REJECTED

BY: *[Signature]* DATE: 22-08-08

Approval shall not relieve the contractor of any of his
 obligations under the Contract or constitute authorisation of
 any change to Contract Documents or variation to the works.
 Contractor is responsible for dimensions, quantities and
 coordination with other trades.

AS BUILT DRAWING

JUMAIRAH PARK

NAKHEEL

dar al-handasah
sheik and partners

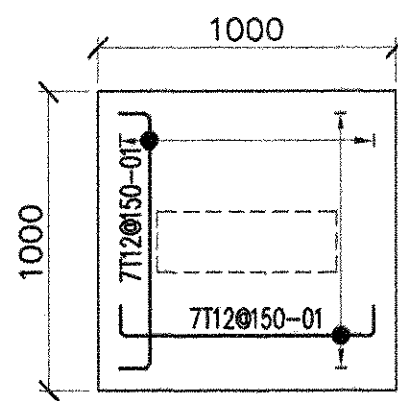
Pauling Middle East

PACKAGE - 2

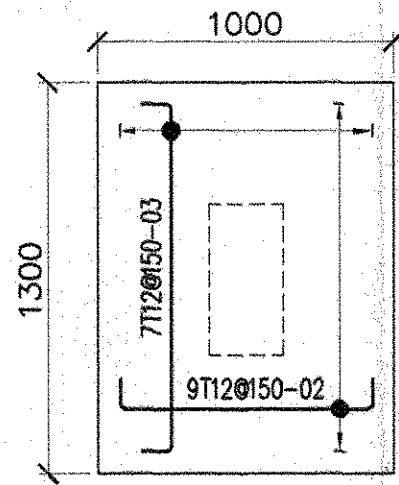
FOUNDATION FOR 2 Kg / cm²
(LAYOUT & BBS)
TYPE : LEGACY

1 of 2

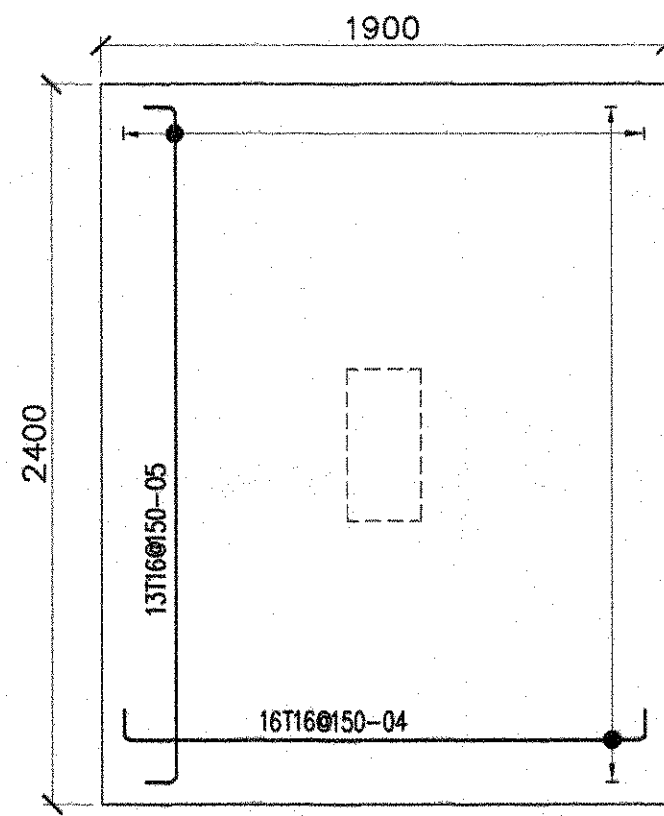
PME / JP / AB/LEGACY / STR-01A



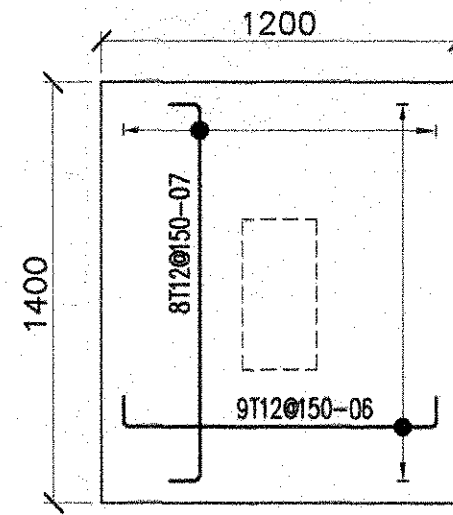
Footing (F1)
1000x1000x400 = 8 Nos.



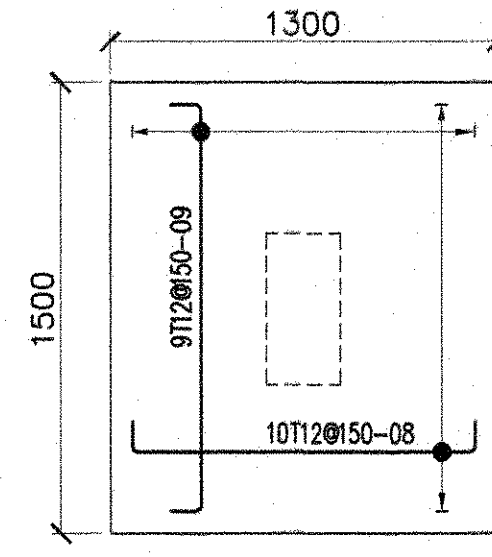
Footing (F2)
1000x1300x400 = 5 Nos.



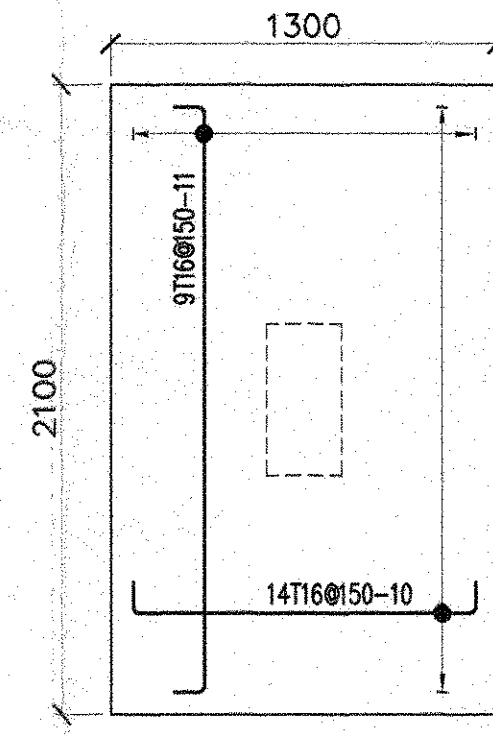
Footing (F3)
1900x2400x400 = 1 No.



Footing (F4)
1200x1400x400 = 3 Nos.

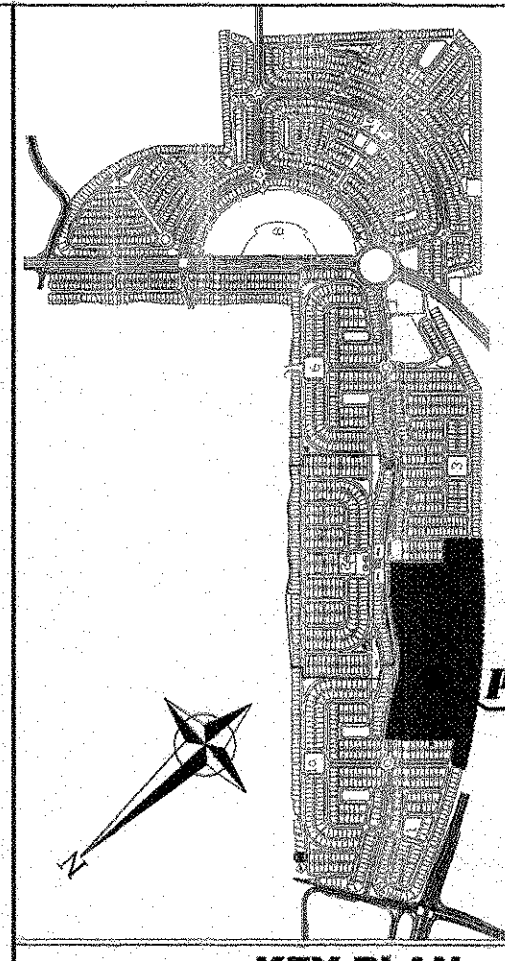


Footing (F5)
1300x1500x400 = 1 No.



Footing (F6)
1300x2100x400 = 3 Nos.

Scale 1:25



- NOTES:-**
- 1) ALL DIMENSIONS ARE IN MM AND LEVELS ARE METERS UNLESS NOTED OTHERWISE.
 - 2) ALL REINFORCEMENT EXCEPT TIES & STIRRUPS UNLESS OTHERWISE INDICATED TO BE HIGH TENSILE STEEL TO BS 4449 HAVING A MINIMUM YIELD STRESS $f_y = 420 \text{ MPa}$ (DESIGNATED BY Φ).
 - 3) ALL REINFORCED CONCRETE SHOULD HAVE A MINIMUM CRUSHING STRENGTH ON CYLINDER AT 28 DAYS: $f'_c = 35 \text{ MPa}$.
 - 4) ALL PLAIN CONCRETE SHOULD HAVE A MINIMUM CRUSHING STRENGTH ON CYLINDER AT 28 DAYS: $f'_c = 14 \text{ MPa}$.
 - 5) ALL REINFORCED CONCRETE SUB STRUCTURES ARE TO BE MADE WITH GOBS ACCORDING TO ASTM C150.
 - 6) ALL SPLICES OF REINFORCEMENT SHOULD BE MIN. 60 BAR DIAMETER.
 - 7) UNLESS OTHERWISE NOTED, THE FOLLOWING NOMINAL CONCRETE COVER TO ALL REINFORCING BARS SHALL BE ADOPTED:
 - a - FOR SLABS AND WALLS NOT EXPOSED TO EARTH OR WEATHER: 30mm.
 - b - FOR BASEMENT WALLS: 50mm.
 - c - FOR DROP BEAMS AND COLUMNS: 40mm.
 - d - FOR FOUNDATIONS: 75mm.
 - e - FOR ALL SURFACES IN CONTACT WITH WATER OR VAPOUR: 50mm.

JUMERIAH PARK PACKAGE - 2 & 2A 4 BEDROOM VILLAS	EMPLOYER: M/s. NAKHEEL	Ref. Page of
ENGINEER:	CONTRACTOR: PAULING MIDDLE EAST CO.L.L.C	Date 10/2/2008

BAR BENDING SCHEDULE FOR FOUNDATION (2Kg/cm²)

Location	Bar Mark	Bar Diam. (mm)	Unit Wt. (kg/m)	No Off	No In Each	Total No. of Bars	Type	Shape Code	a (mm)	b (mm)	c (mm)	d (mm)	e (mm)	Total Length (mm)	Bend Deduct. (mm)	Cut Length (mm)	Weight (kg)
Footing F1	1	12	0.889	8	14	112	Φ	C	250	850	250			1290	60	1350	134.40
Face Bar	1A	10	0.617	8	1	8	Φ	J	750	850	850	850	750	3930	120	4050	20.00
F2	2	12	0.889	5	9	45	Φ	C	240	850	240			1270	60	1330	53.20
	3	12	0.889	5	7	35	Φ	C	250	1150	250			1590	60	1650	51.33
Face Bar	3A	10	0.617	5	1	5	Φ	J	950	850	1150	850	950	4630	120	4750	14.66
F3	4	16	1.58	1	16	16	Φ	C	240	1750	240			2160	70	2230	56.38
	5	16	1.58	1	13	13	Φ	C	250	2250	250			2680	70	2750	56.49
Face Bar	5A	10	0.617	1	1	1	Φ	J	2050	1750	2250	1750	2050	9730	120	9850	6.08
F4	6	12	0.889	3	9	27	Φ	C	240	1050	240			1470	60	1530	36.72
	7	12	0.889	3	8	24	Φ	C	250	1250	250			1690	60	1750	37.33
Face Bar	7A	10	0.617	3	1	3	Φ	J	1050	1050	1250	1050	1050	5330	120	5450	10.09
F5	8	12	0.889	1	10	10	Φ	C	240	1150	240			1570	60	1630	14.49
	9	12	0.889	1	9	9	Φ	C	250	1350	250			1790	60	1850	14.80
Face Bar	9A	10	0.617	1	1	1	Φ	J	1150	1150	1350	1150	1150	5830	120	5950	3.67
F6	10	16	1.58	3	14	42	Φ	C	240	1150	240			1560	70	1630	108.18
	11	16	1.58	3	9	27	Φ	C	250	1950	250			2380	70	2450	104.53
Face Bar	11A	10	0.617	3	1	3	Φ	J	1750	1150	1950	1150	1750	7630	120	7750	14.35
SCHEDULE REF.																Total Weight	736.728

1. FOR COLUMN NECK DETAILS & B.B.S
REFER DWG # PME/JP/AB/LEGACY/STR-01 (2 of 2)

AS BUILT DRAWING

Project
JUMAIRAH PARK

Employer
NAKHEEL

Consultant
dar al-handasah
shair and partners

Main Contractor
Pauling Middle East

Package
PACKAGE - 2

Drawing Title
**FOUNDATION FOR 2 Kg / cm²
(LAYOUT & BBS)
TYPE : LEGACY 2 of 2**

Drawn: Eng. Syed
Scale: AS SHOWN
Checked: Eng. Moh'd Abdul Wahed
Date: 08-08-09
Designed: Eng. Ghassan
Approved:

PME / JP / AB/LEGACY / STR-01A