



## EMPLOYER:

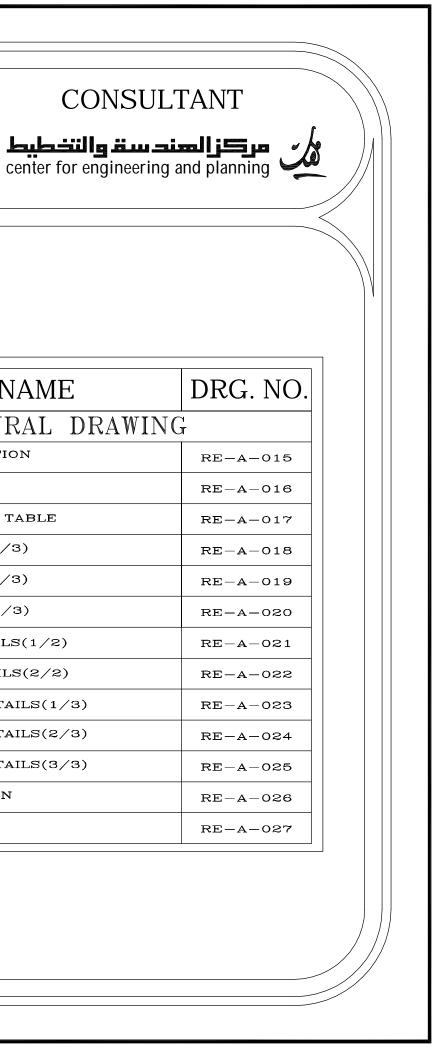


THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE UN PALESTINIAN PEOPLE DP (UNDP/PAPP)

#### CLIENT

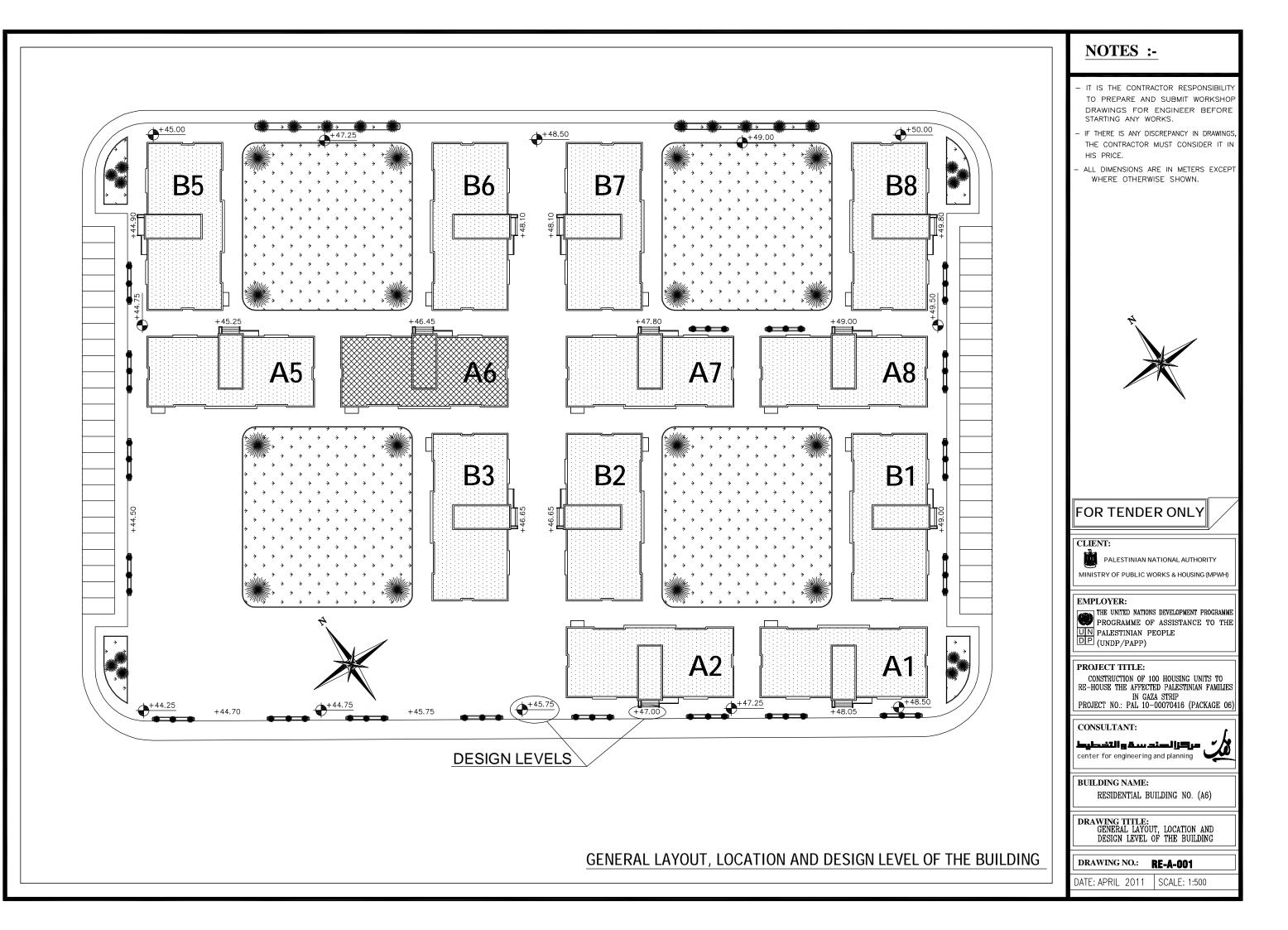


PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSI MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)



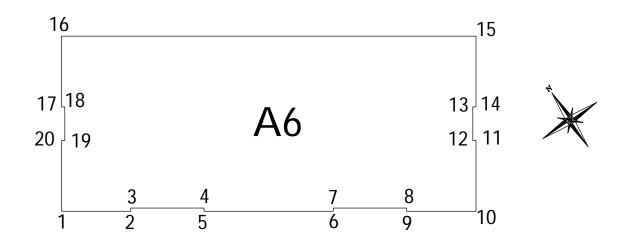
LIST OF DRAWINGS

S/NO.	DRAWING NAME	DRG. NO.	S/	NO.	DRAWING NAME
	ARCHITECTURAL DRAWING			ARCHITECTURAL DR.	
01/27	GENERAL LAYOUT, LOCATION AND DESIGN LEVEL OF THE BUILDING	RE-A-001	1	5/27	LONGITUDINAL SECTION
02/27	COORDINATES FOR THE BUILDING	RE-A-002	1	6/27	CROSS SECTIONS
03/27	EXISTING LEVEL FOR THE BUILDING SITE	RE-A-003	1	7/27	WINDOWS & DOORS TABLE
04/27	FURNITURE FOR UNDERGROUND FLOOR	RE-A-004	1	8/27	FINISHES TABLE $(1/3)$
05/27	FURNITURE FOR GROUND FLOOR	RE-A-005	1	9/27	FINISHES TABLE (2/3)
06/27	FURNITURE FOR TYPICAL FLOOR	RE-A-006	2	0/27	FINISHES TABLE (3/3)
07/27	UNDERGROUND FLOOR PLAN	RE-A-007	2	1/27	METAL DOOR DETAILS(1/2)
08/27	GROUND FLOOR PLAN	RE-A-008	2	2/27	METAL DOOR DETAILS(2/2)
09/27	TYPICAL FLOOR PLAN	RE-A-009	2	3/27	WOODEN DOOR DETAILS(1/3)
10/27	ROOF PLAN	RE-A-010	2	4/27	WOODEN DOOR DETAILS(2/3)
11/27	FINAL ROOF PLAN	RE-A-011	2	5/27	WOODEN DOOR DETAILS(3/3)
12/27	FRONT ELEVATION	RE-A-012	2	6/27	WINDOWS ELEVATION
13/27	BACK ELEVATION	RE-A-013	2	7/27	KITCHEN DETAILS
14/27	SIDE ELEVATIONS	RE-A-014			

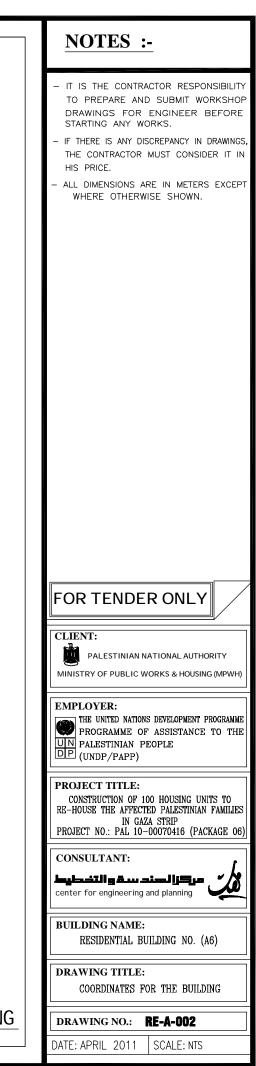


#### **BUILDING NO. A6**

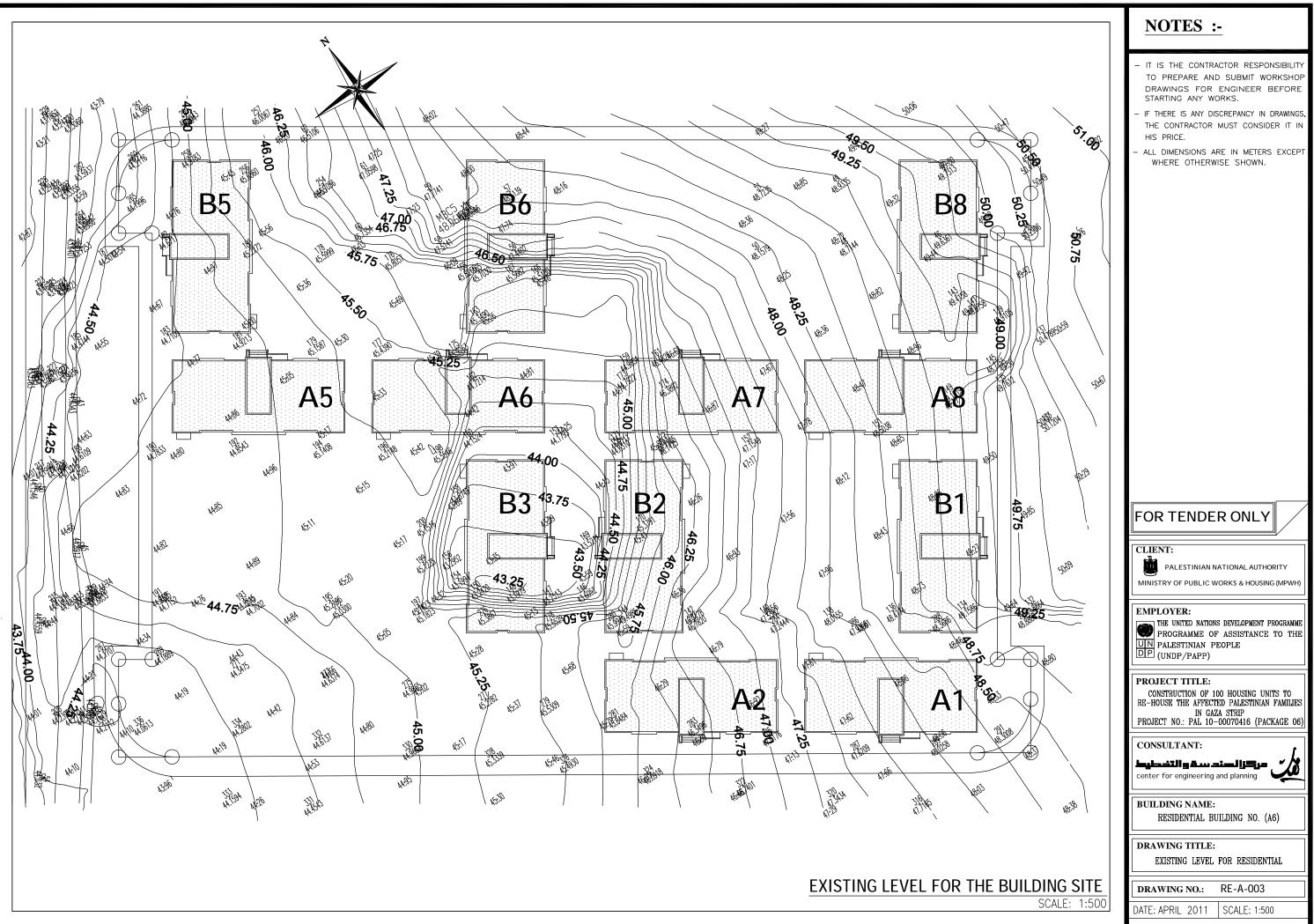
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3	100579.5174	107343.6109
4	100583.2991	107340.9920
5	100583.1852	107340.8275
6	100589.8443	107336.2159
7	100589.9581	107336.3801
8	100593.7398	107333.7614
9	100593.6260	107333.5969
10	100597.2038	107331.1227
11	100599.7357	107334.7787
12	100599.5712	107334.8926
13	100600.7608	107336.6190
14	100600.9313	107336.5051
15	100603.4648	107340.1635
16	100582.0901	107354.9662
17	100579.556	107351.3079
18	100579.7210	107351.1940
19	100578.5254	107349.4676
20	100578.3610	107349.5815

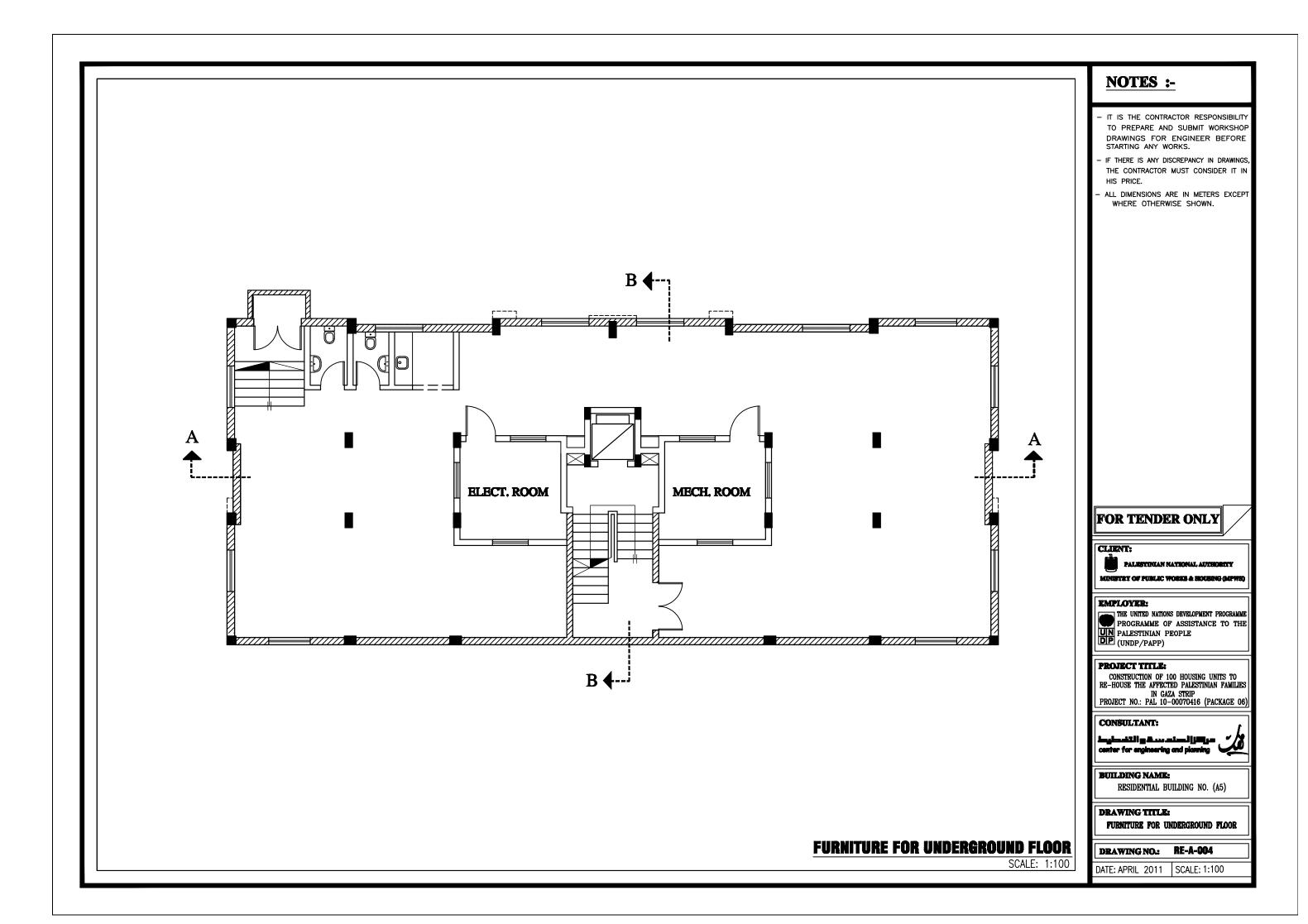


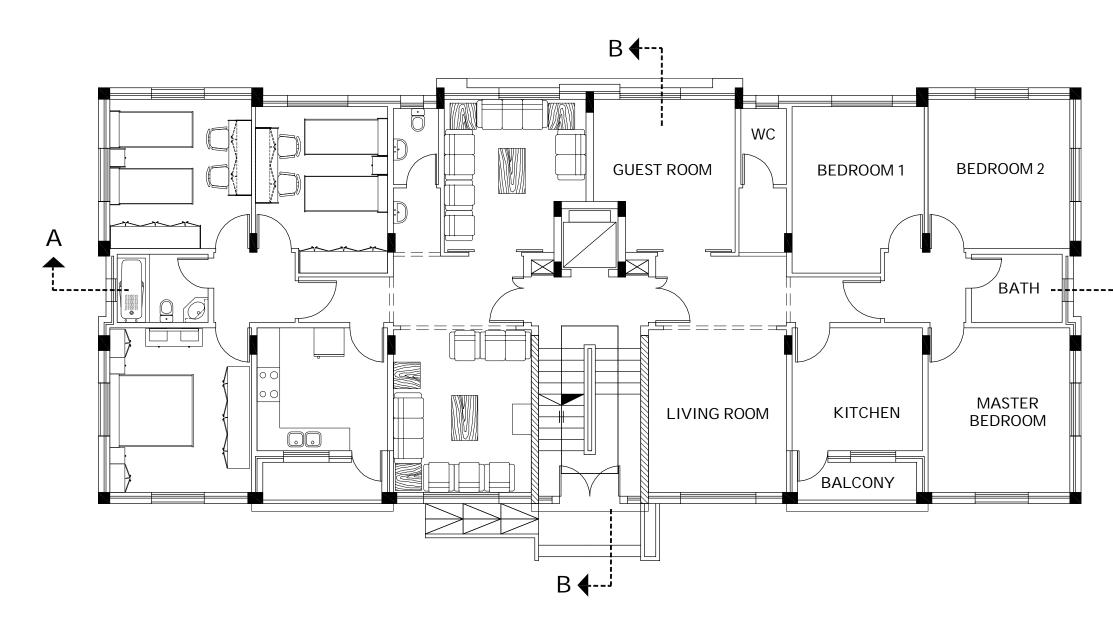
COORDINATES FOR THE BUILDING



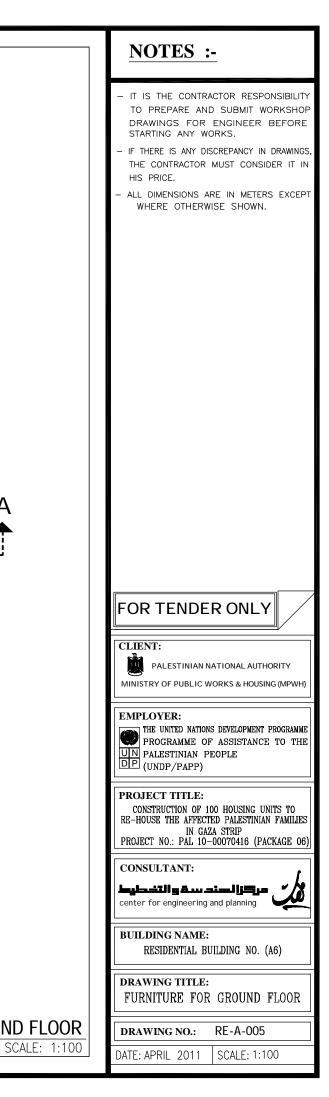




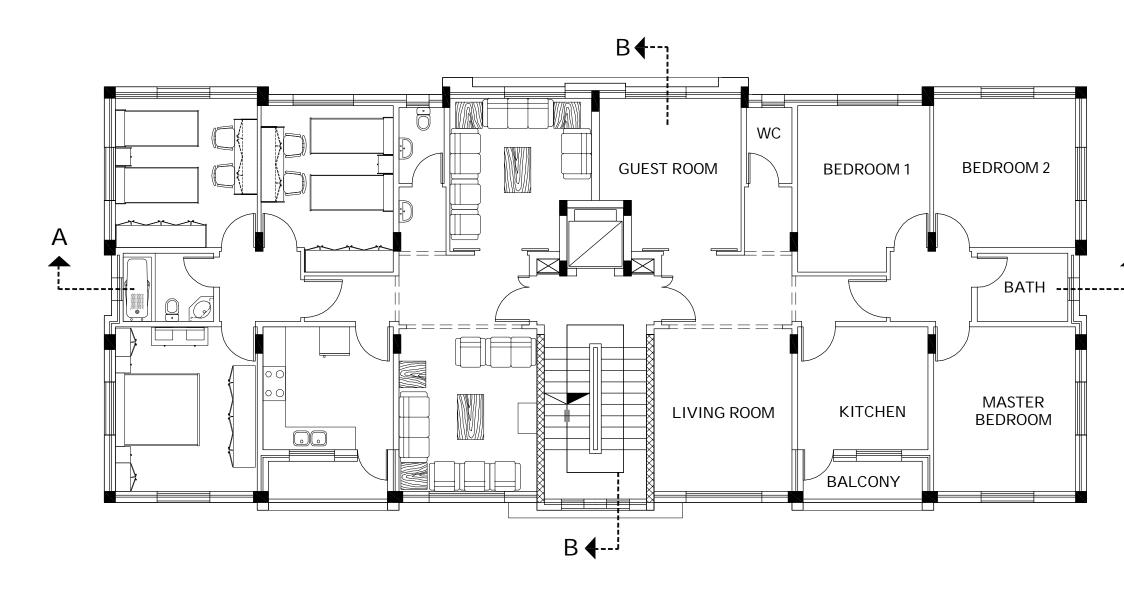




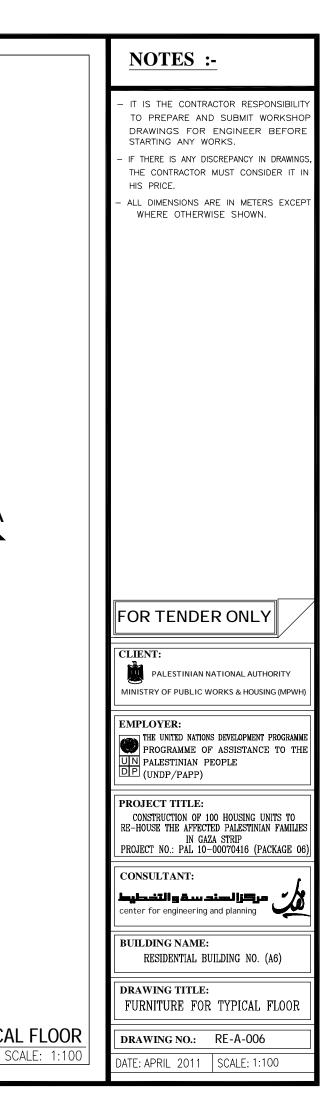
FURNITURE FOR GROUND FLOOR



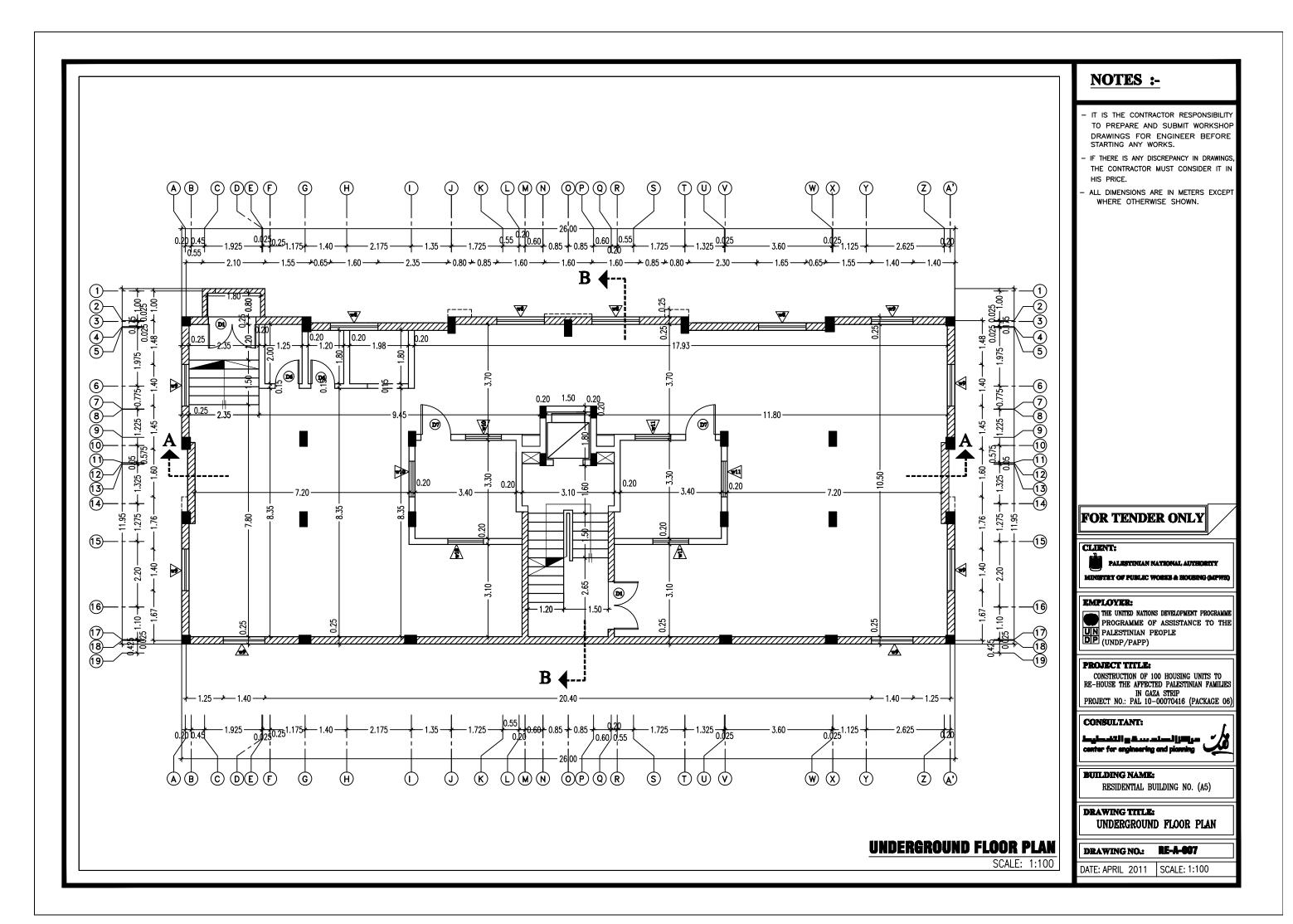
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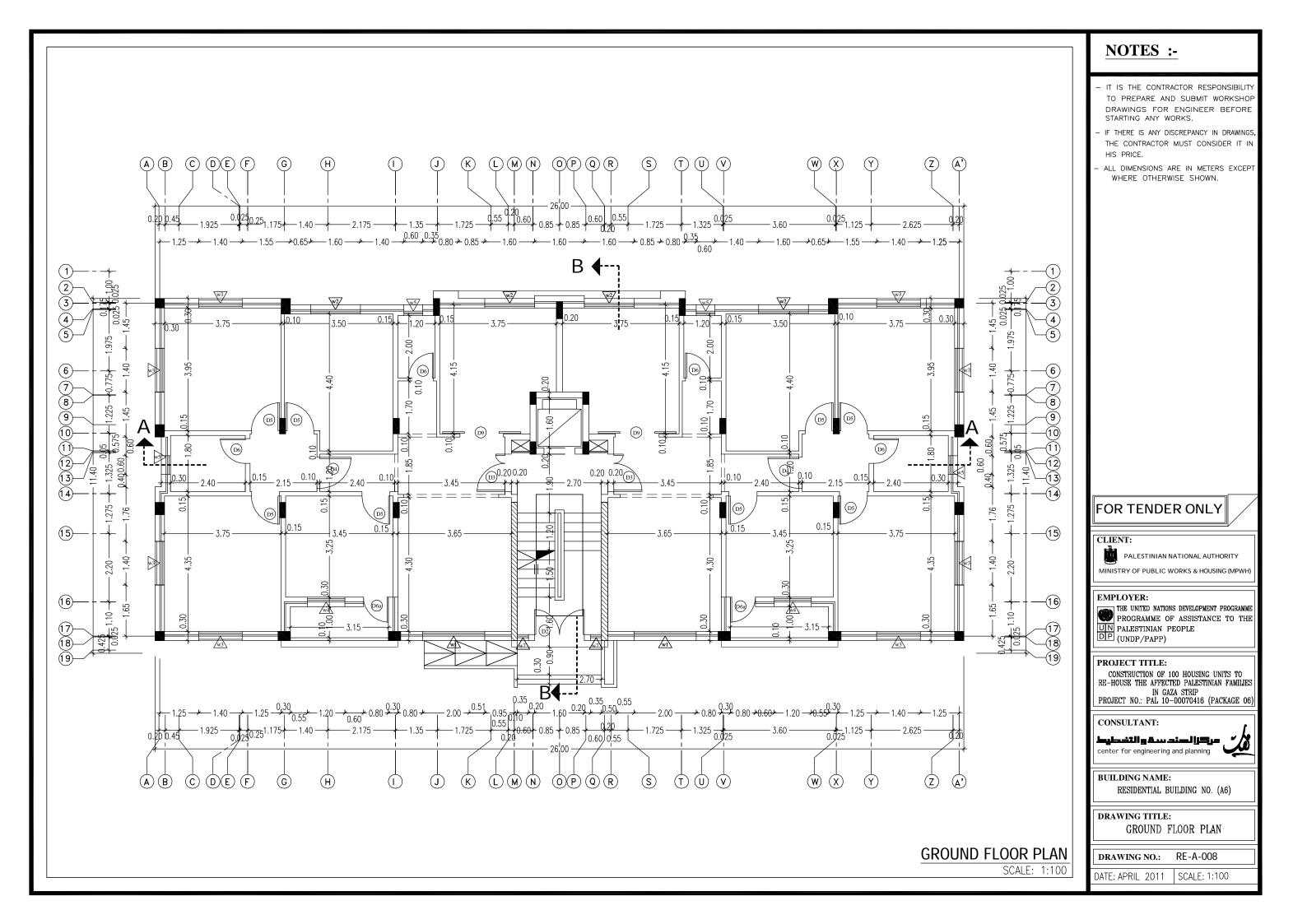


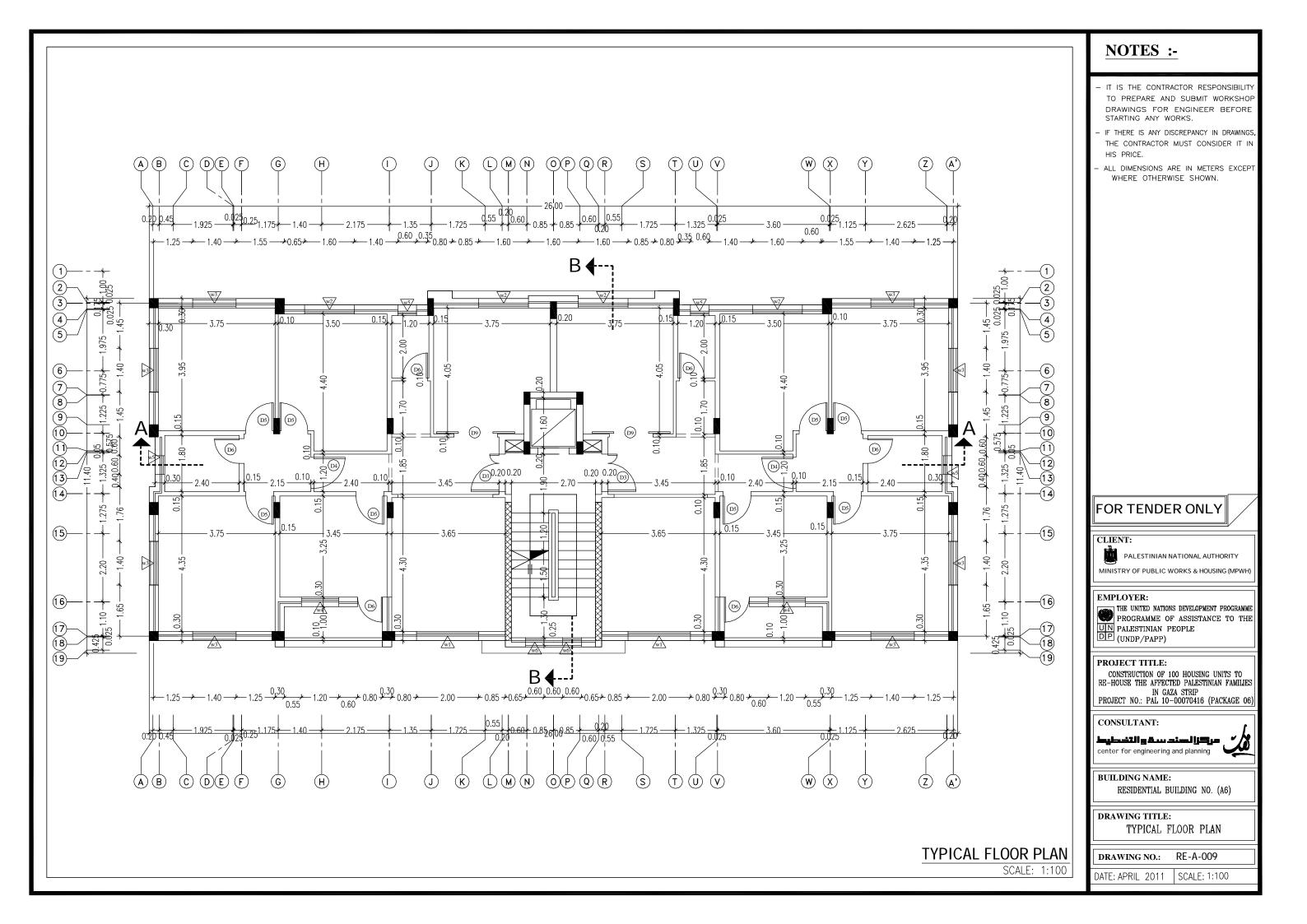
FURNITURE FOR TYPICAL FLOOR

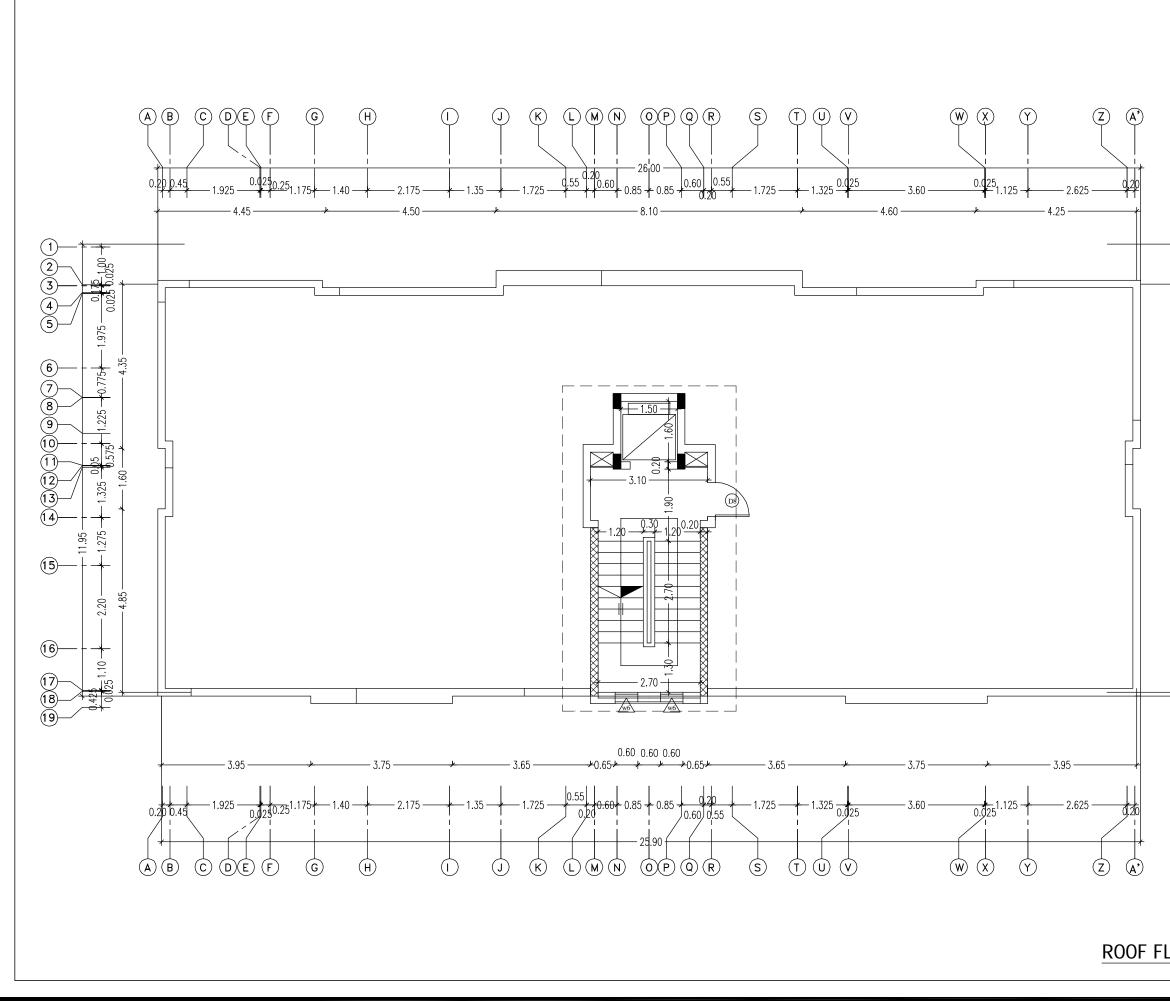


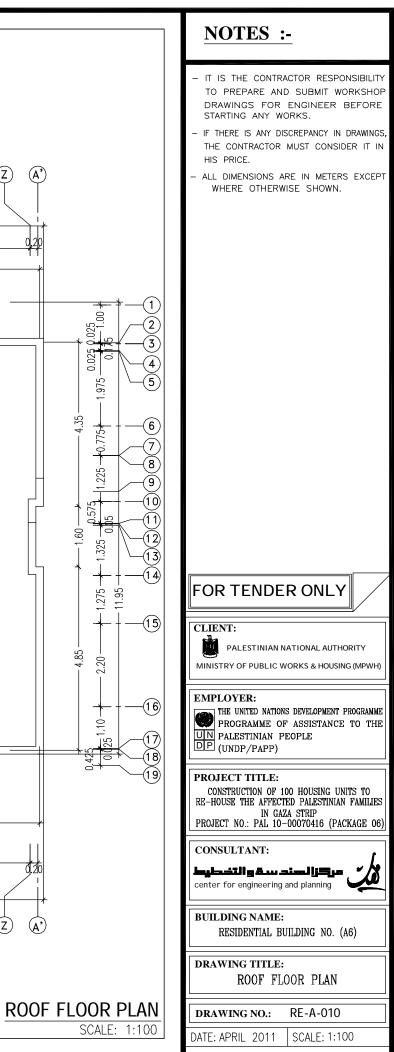
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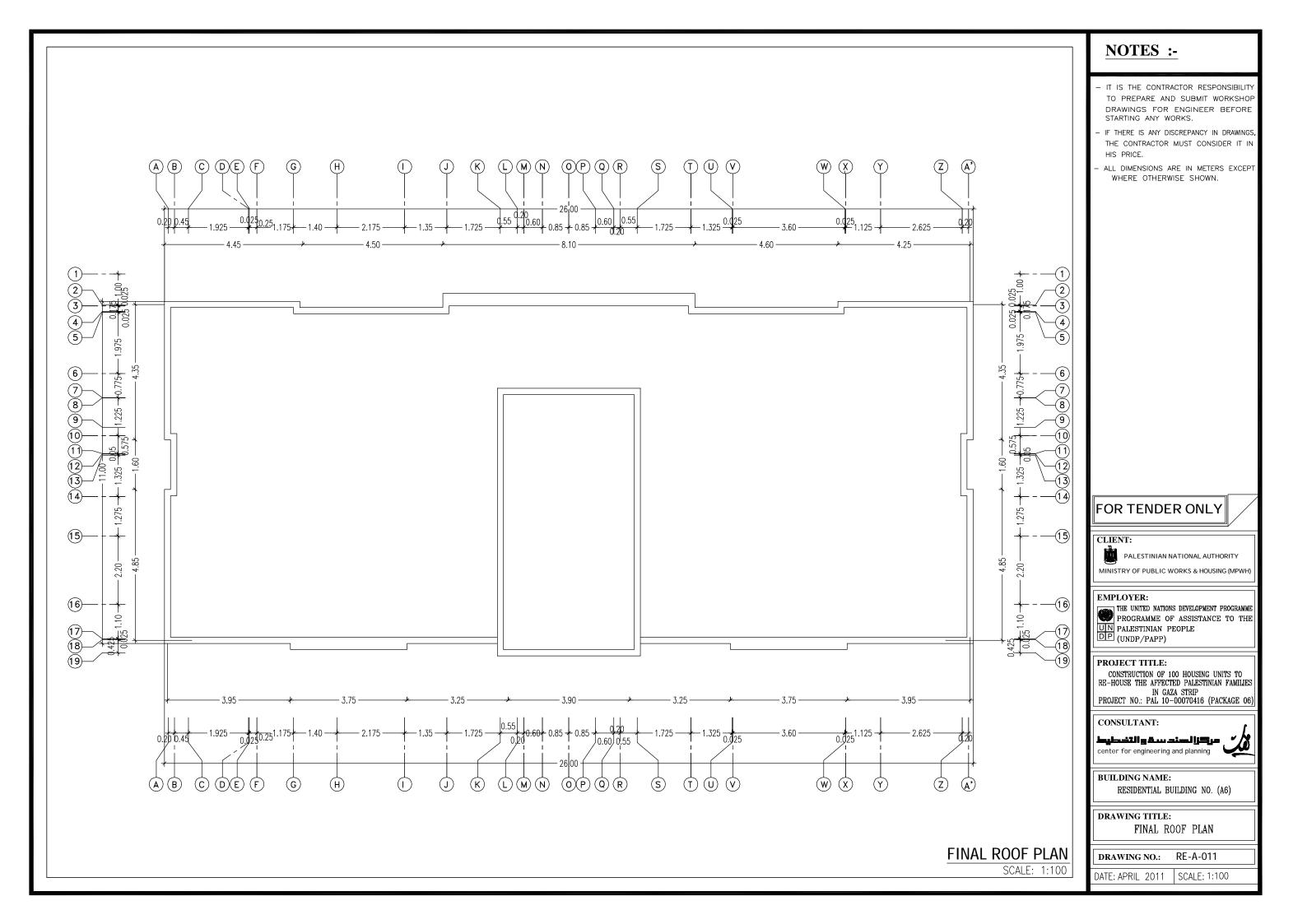




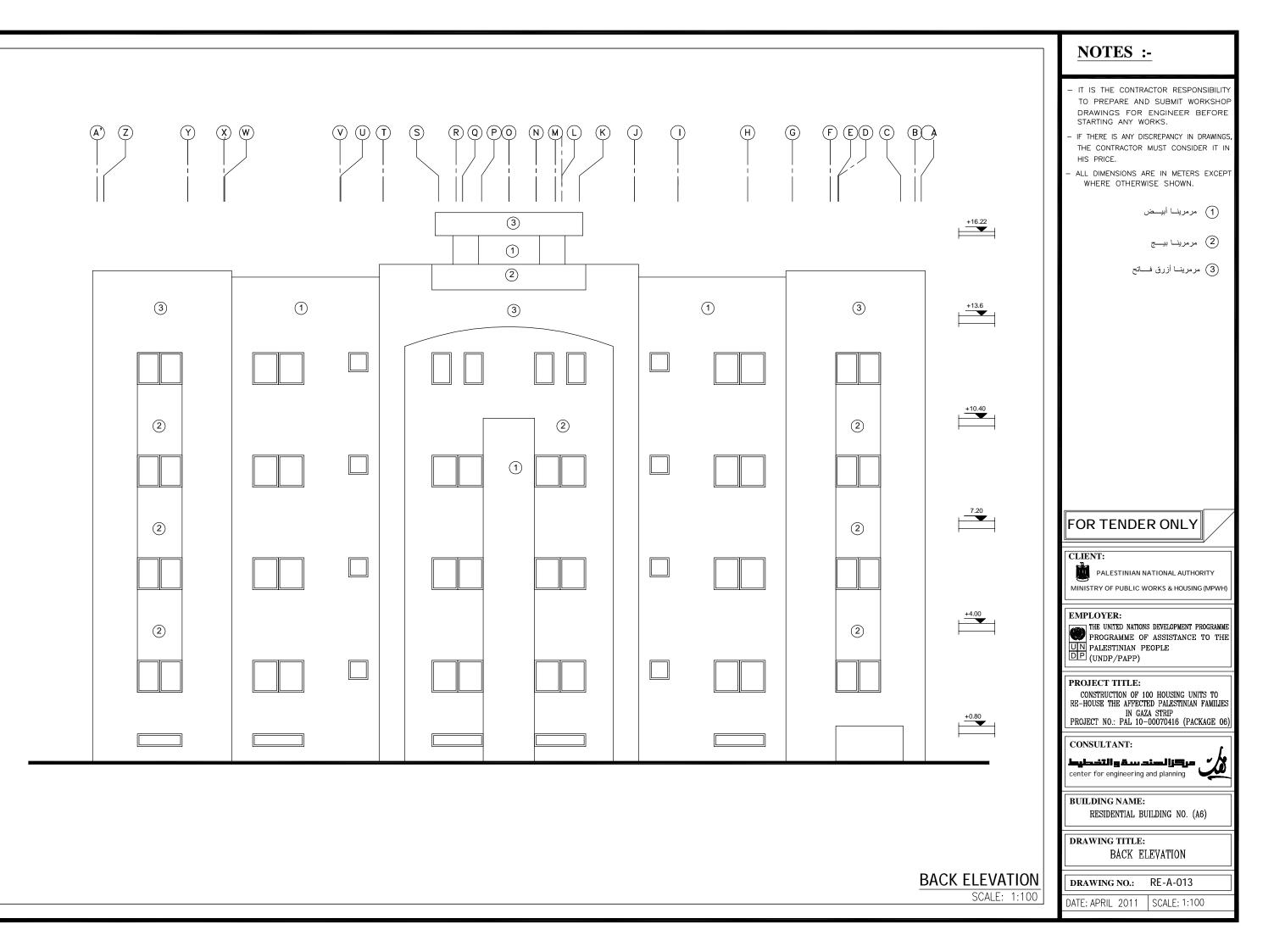


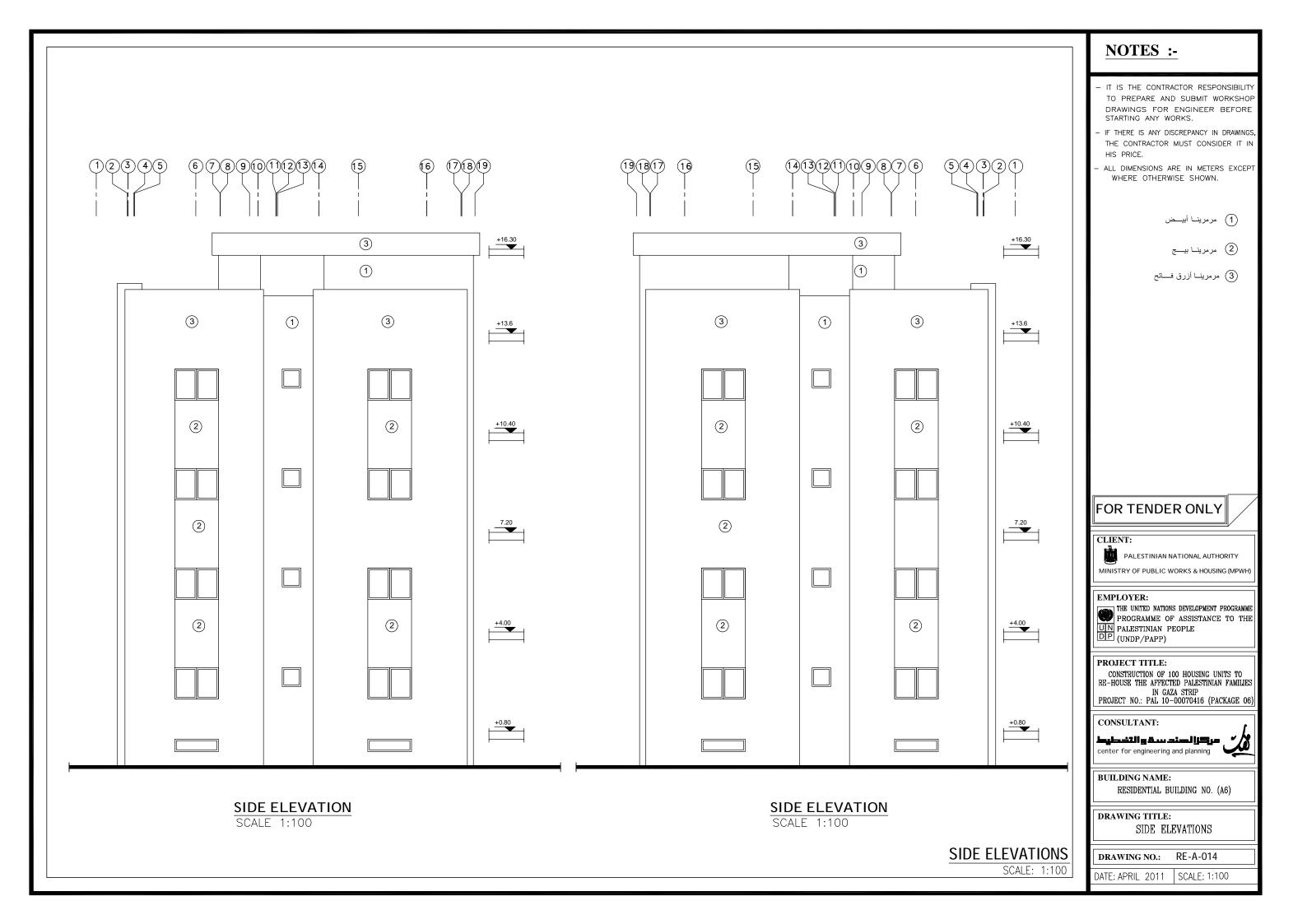


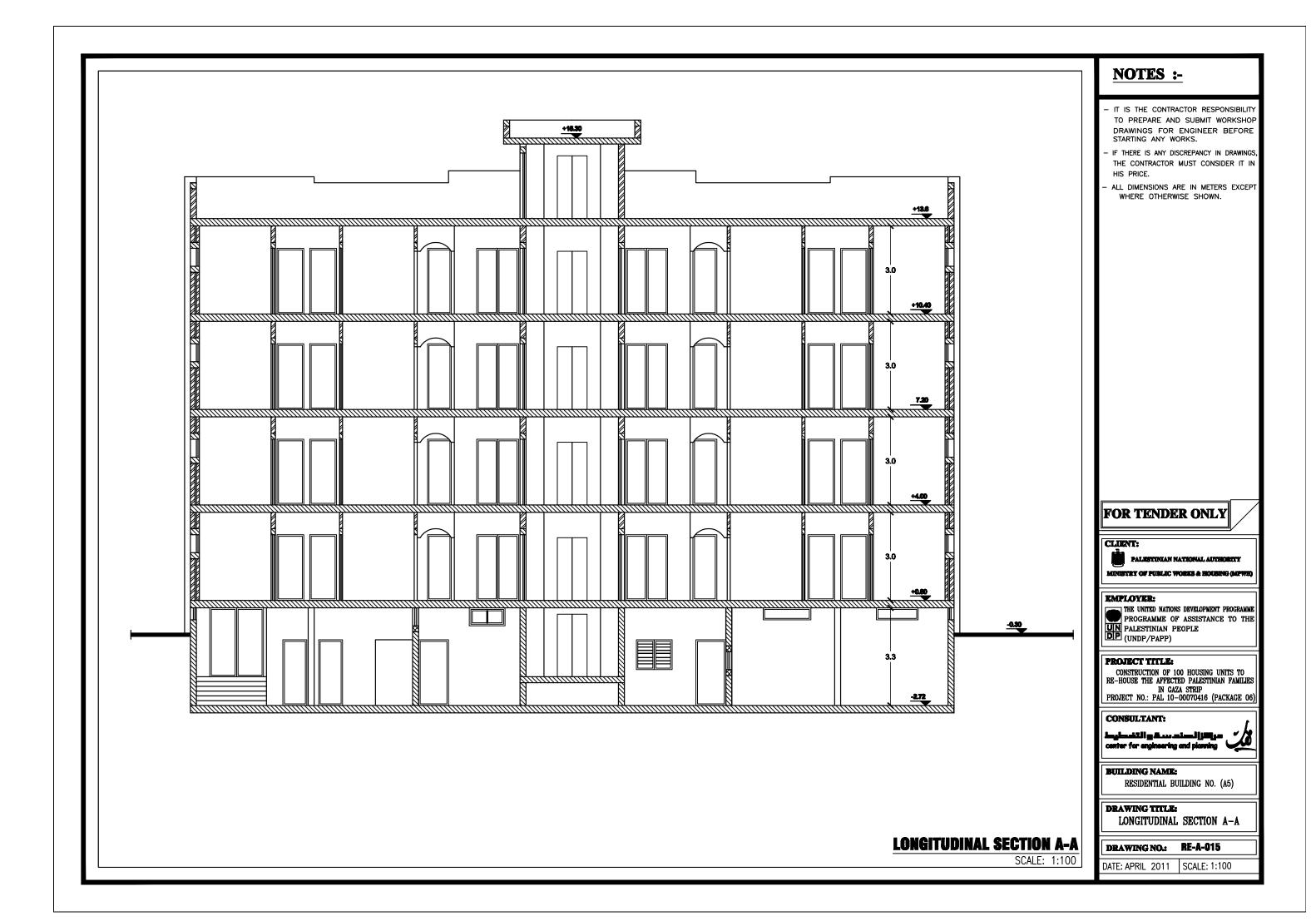


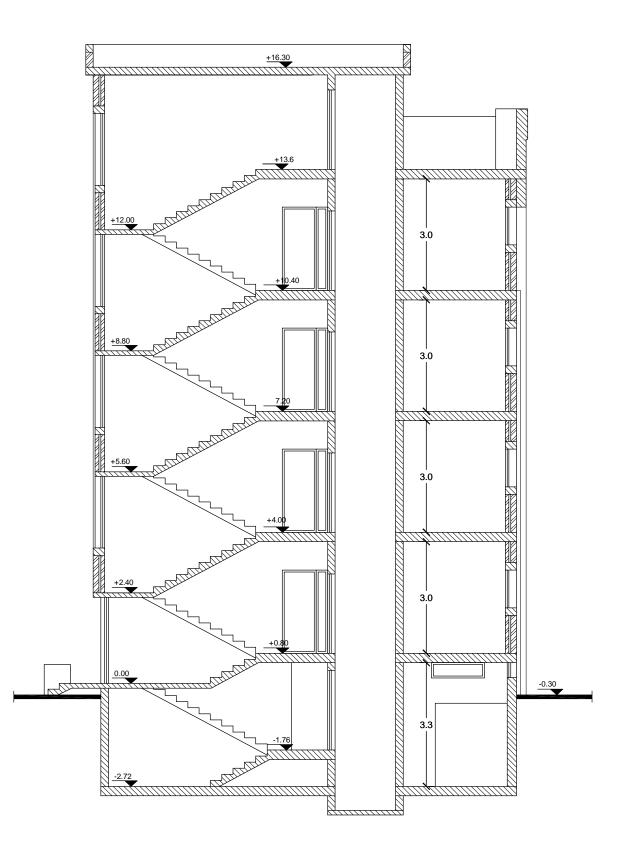




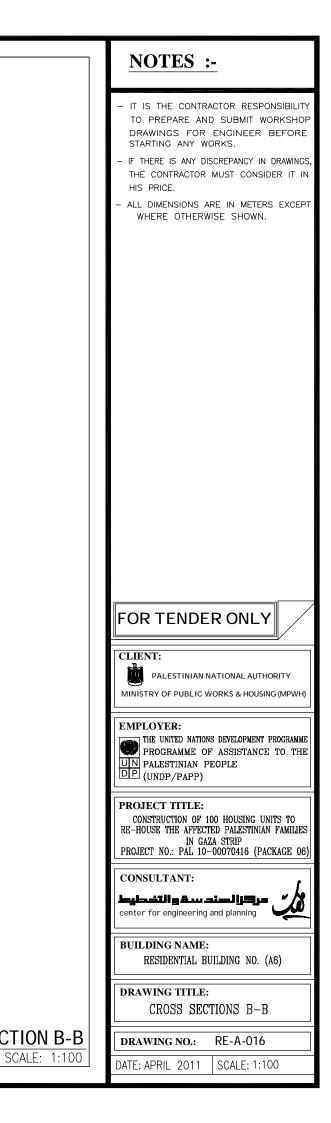








**CROSS SECTION B-B** 

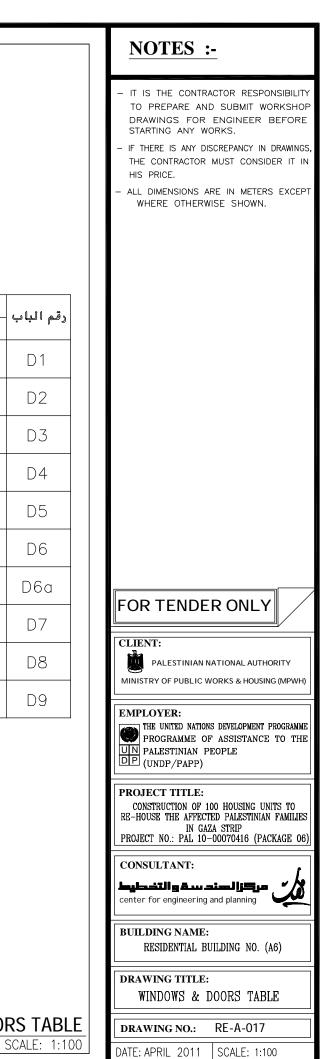


					ِآع *	جدول الشباب	
نظام الفتح	المادة	الفتحة الانشائية	رقم الشباك	نظام الفتح	المادة	الفتحة الانشائية	رقم الشباك
سحا ب شباڪ البدروم	المنيوم		W9	سحا ب	المنيوم	€ ↓ ↓ ↓ + 2.00 +	W 1
بد اب	المنيوم		W10	بكا ب	المنيوم		W2
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				سحا ب	المنيوم		W4
				ق <b>ل</b> ا ب	المنيوم	¢ • • • • • • • • • • • • • • • • • • •	W5
				قـلا ہے شباڪ الدرجہ	المنيوم	8: -+0.60+	W6
				قـلا ہـ شباڪ بچوار مەخلـ العمارة	المنيوم		W7
				سحا ب شباك البدروم	المنيوم	€1.60 €1.60	W8

جدول الابواب

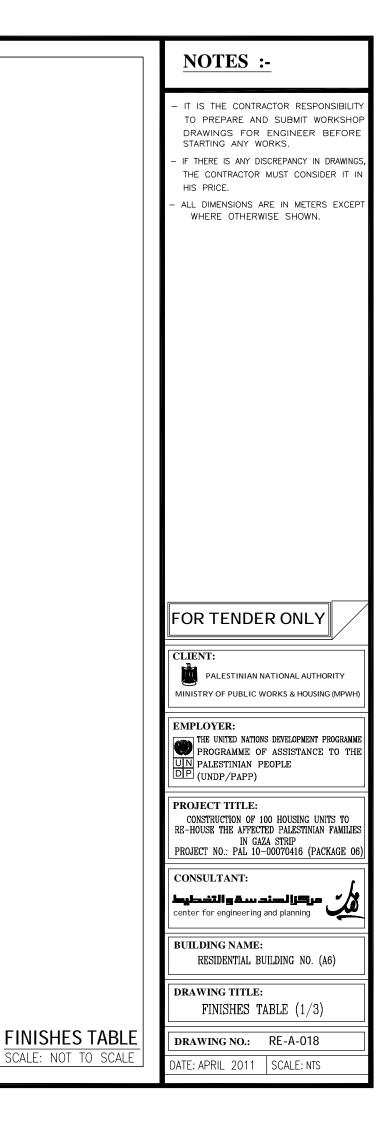
نظام الفتح وعده الضلف	المادة	الانشائية	الفتحة	رقم الباب
		الارتفاع	العرض	رهم،ىپ
مفصلي ضلفتين	ھي ھے	220	160	D1
مفصلي ضلفتين	ఫా శానా	230	160	D2
مفصلي ضلفتين	ڿۺ۠ۑ	220	120	D3
مفصلي ضلفة واحدة	ڿۺ۫ۑ	220	100	D4
مفصلي ضلفة واحدة	ڿۺ۠ۑ	220	90	D5
مفصلي ضلفة واحدة	<b>ڏش</b> ٻ	220	80	D6
مفصلي ضلفة واحدة	ఫా శాని	220	80	D6a
مفعيلي ضلفة واحدة	<del>کی</del> <del>ک</del> ے	220	100	D7
مفعيلي ضلفة واحدة	<del>کر</del> ب	220	90	D8
سحاب ضلفتين	ڿۺ۠ۑ	220	140	D9

WINDOWS & DOORS TABLE



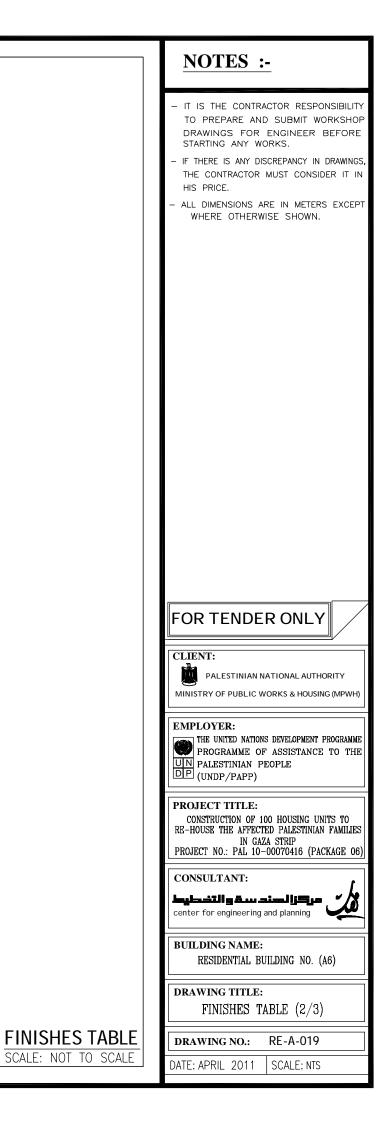
جدول التشطيبات الطبق التحت أرضي

الادراج	دورات العياه	الغرف الميكانيكية	المطبخ	المورعا ت	العيالة	الرقم	نوع التشطيب	البند
					0	1	بلاط کسر رخام	
	٩					2	بلاط کرا میکا	£) "
۲						3	رځام أو جرانيت	
•		•		•	٢	1	قصارة ودهان سوبركريل	Hangel I
			0			2	بلاط کرامیکا حتی السقف	
					•	1	قصارة ودهان بوليسيد	Barry Sh
					0	1	ڪسر رځام	
۲						2	رځام أو جرانيت	



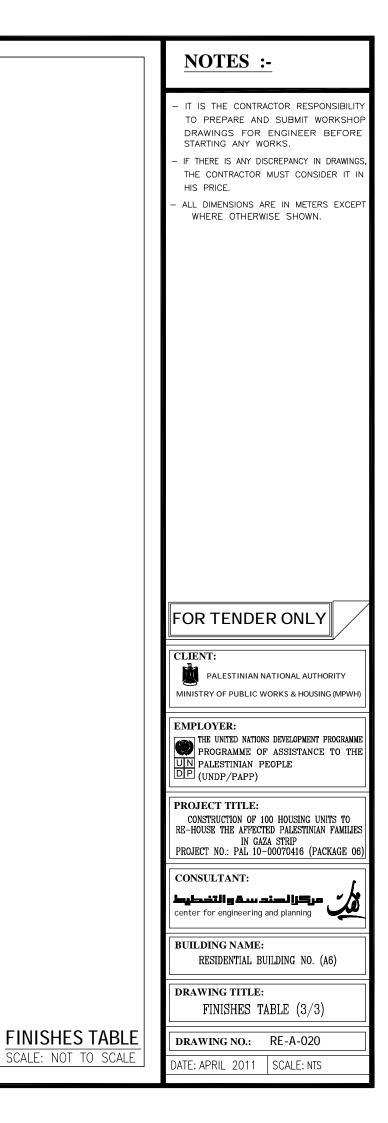
جدول التشطيبات الطابق الارضي

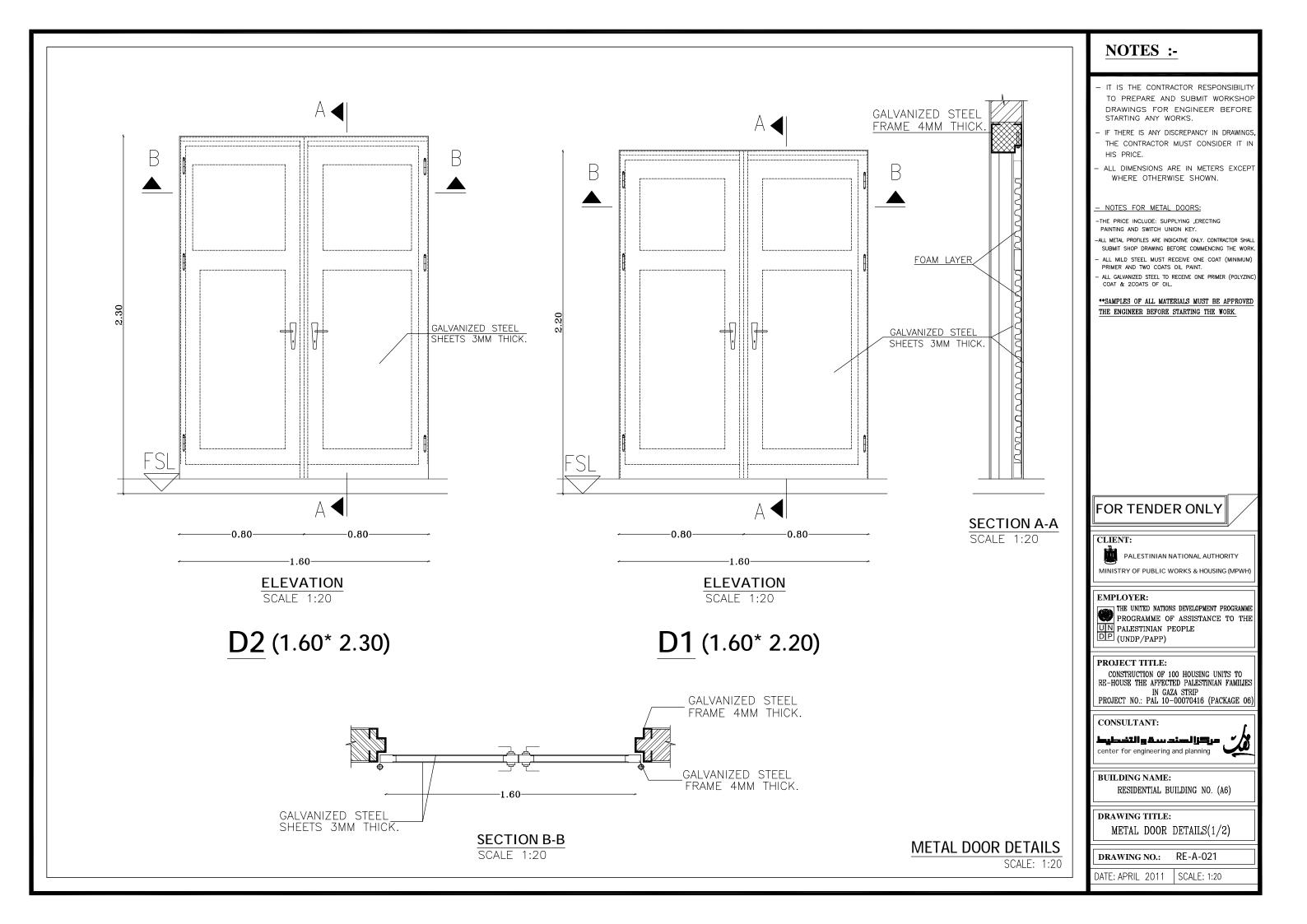
البلاكين	الادراج	دورات العياه	الحمامات	غرف النوم	الموزعات	المطابخ	صالات المدخل	غرف الصعيشة	غرف الفيوف	الرقم	نوع التشطيب	البنه
۲				٢	•		۲	0	٥	1	بلاط کسر رخام	Strand Parts
		۲	۲			۲				2	بلاط کرا میکا	e se
	•									3	رخام أو جرانيت	
•	•			٩	٩		•	•	•	1	قصارة ودهان سوبرڪريا	A JAN
		۲	۲			٢				2	بلاط کرامیکا حتی السقف	
۲	۲	0	۲	٩		۲	۲	٩	۲	1	قصارة ودهان بوليسيد	in the second second
	•			٠	٢		•	•	٢	1	ڪسر رځام	
	٩									2	رخام أو جرانيت	J. J. J.
											🜒 مرمرینا	الحوائط الخارجية

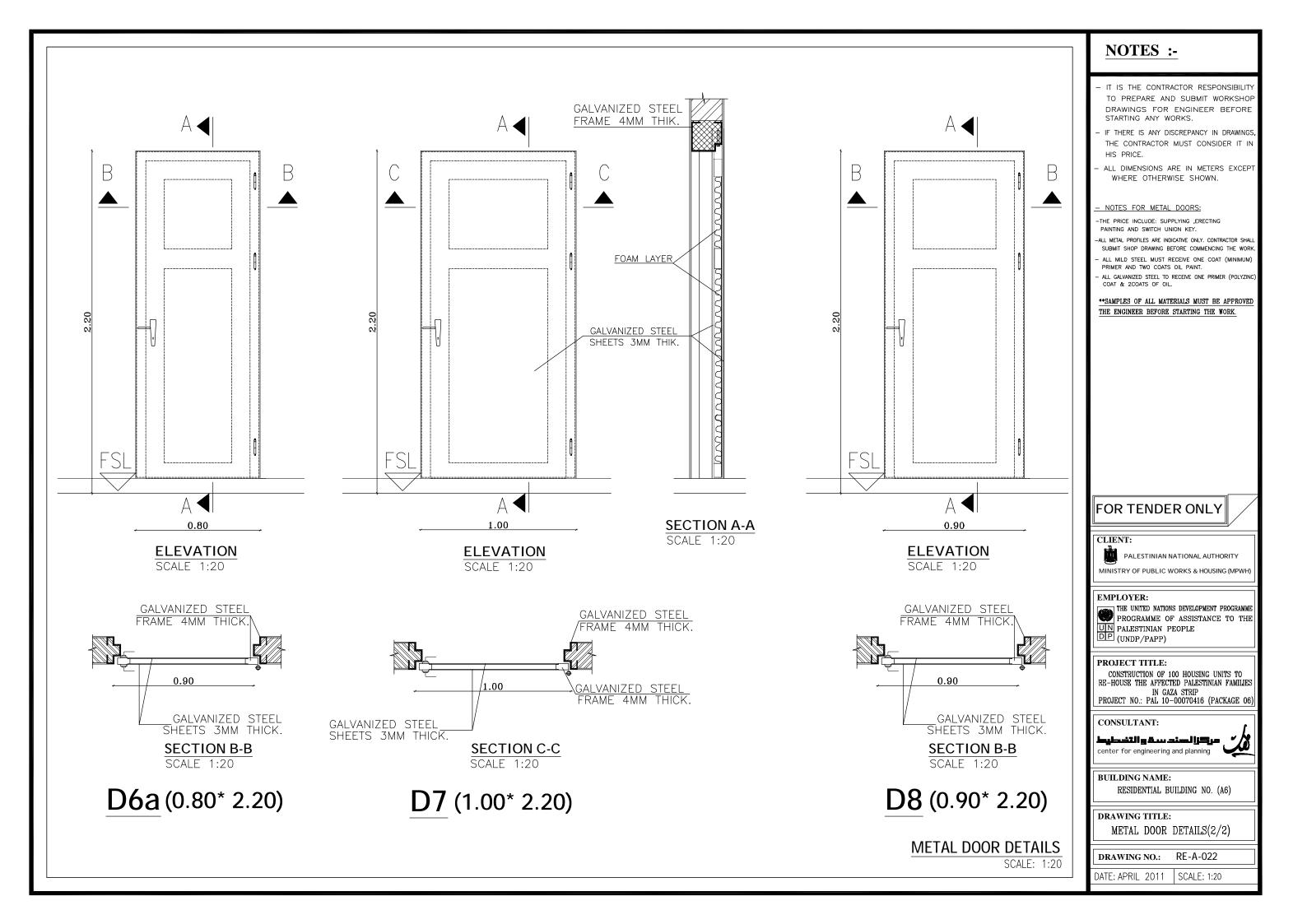


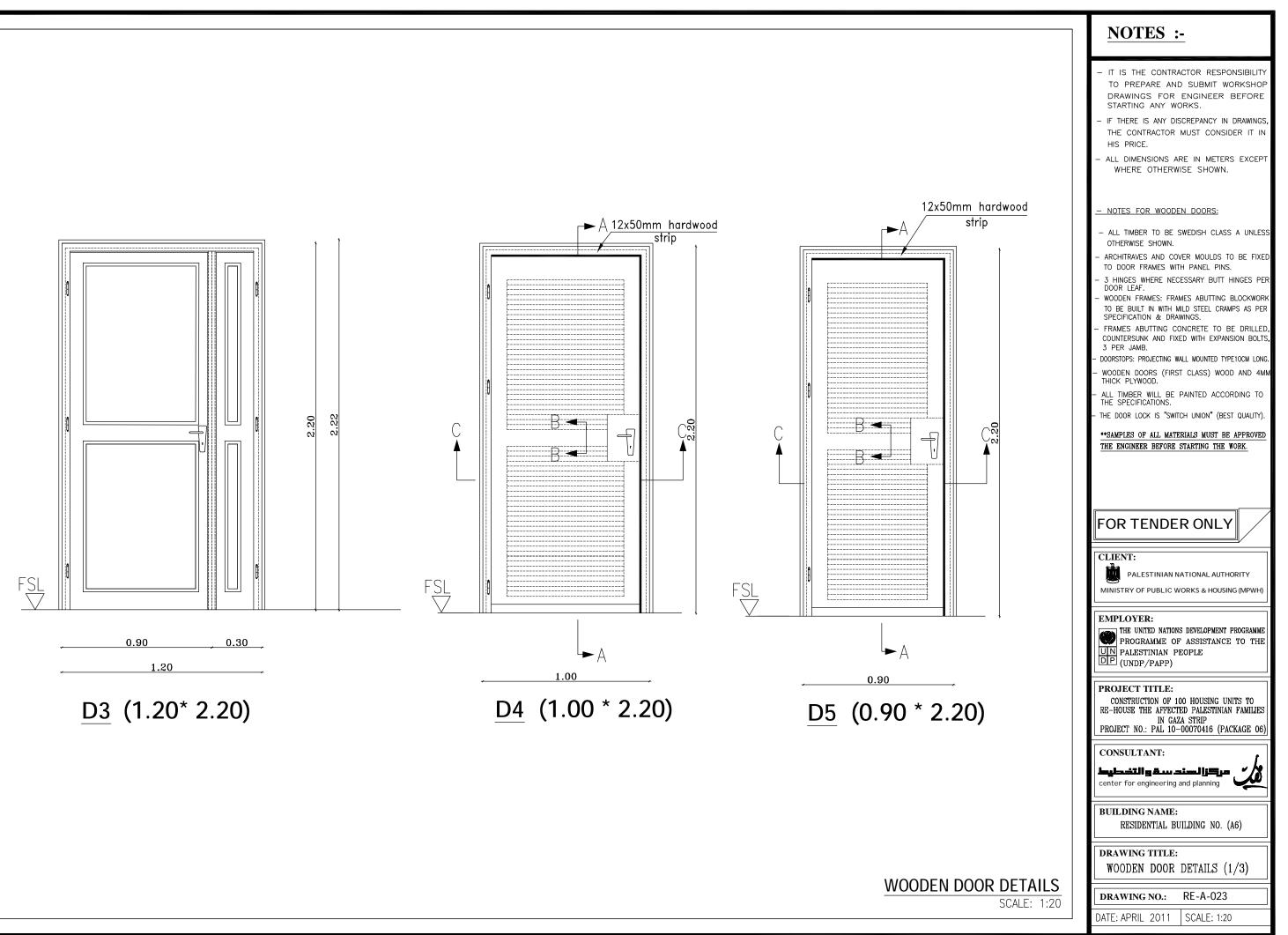
التشطيبا ت	چدول
ق المتكرر	į (b) (

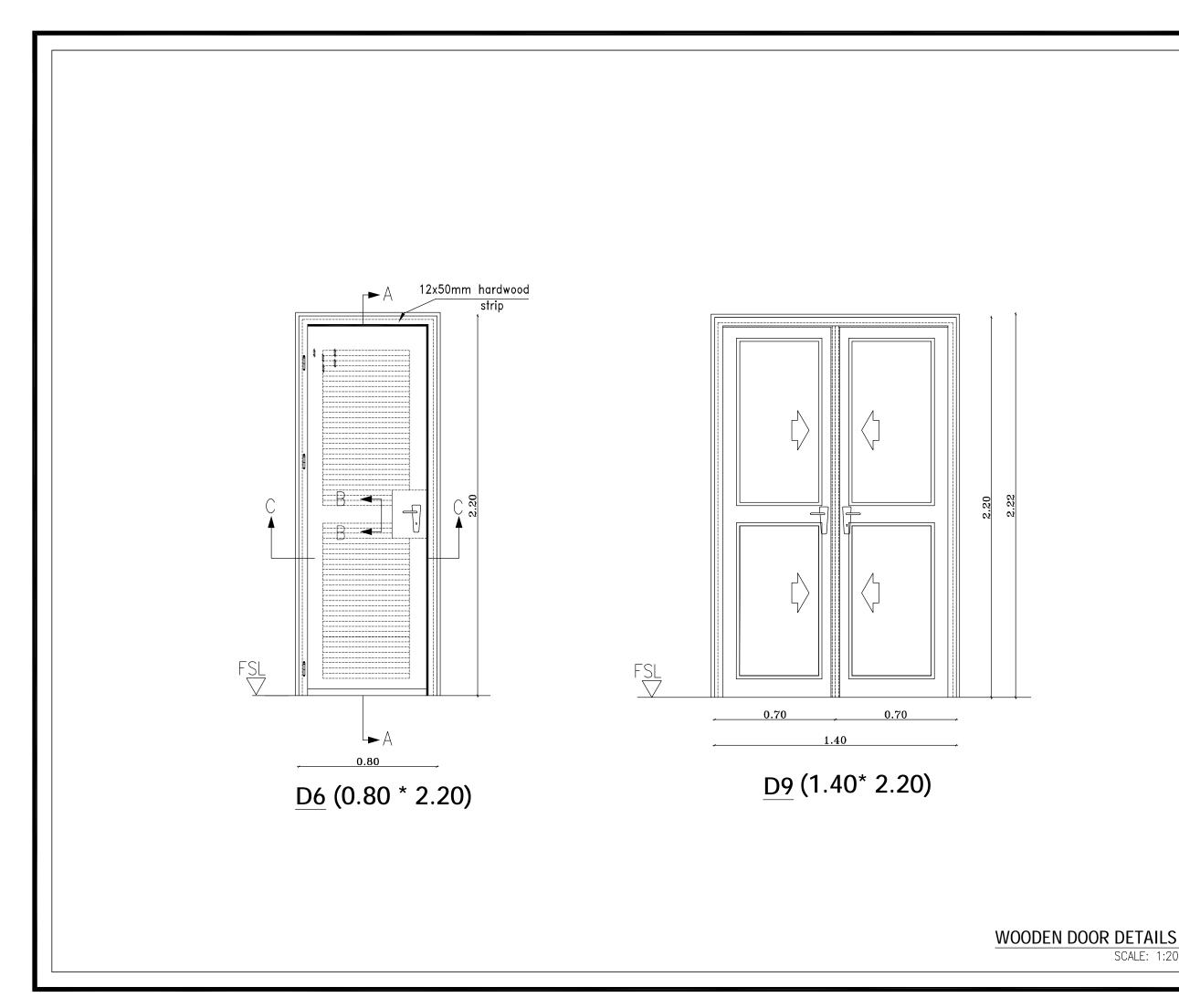
البلاكين	الادراج	دورات الصياه	الدمامات	غرف النوم	ا لمورْعا ت	المطابخ	مالات المدخل	غرف الصعيشة	غرف الفيوف	الرقم	نوع التشطيب	البند
۲				٢	•		٠	۲	٩	1	بلاط کسر رخام	A Contraction of the second se
		۲	۲			۲				2	بلاط کرا میکا	€
	۲									3	رځام أو جرانيت	
۲	۲			•	٢		•	•	۲	1	قصارة ودهان سوبرڪريل	
		۲	•			٢				2	بلاط كراميكا حتى السقف	A Part
٩	۲	۲	0	۲	٠	٠	•	•	•	1	قصارة ودهان بوليسيد	. of the second
۲	•			٩	٩		۲	۲	۲	1	کسر رځام	
	۲									2	رځام أو جرانيت	y.
											مرمرينا	الحوائط الخارجية

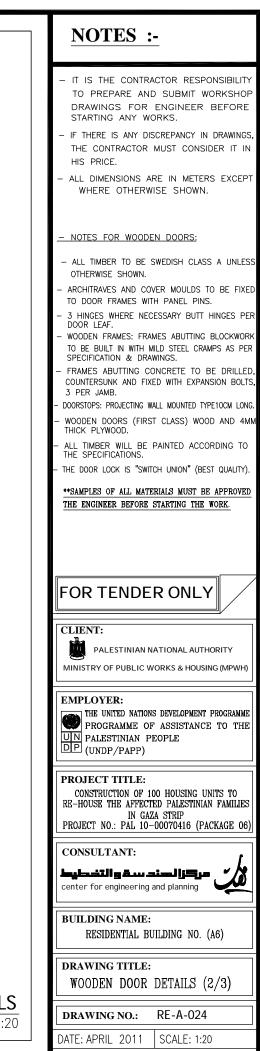




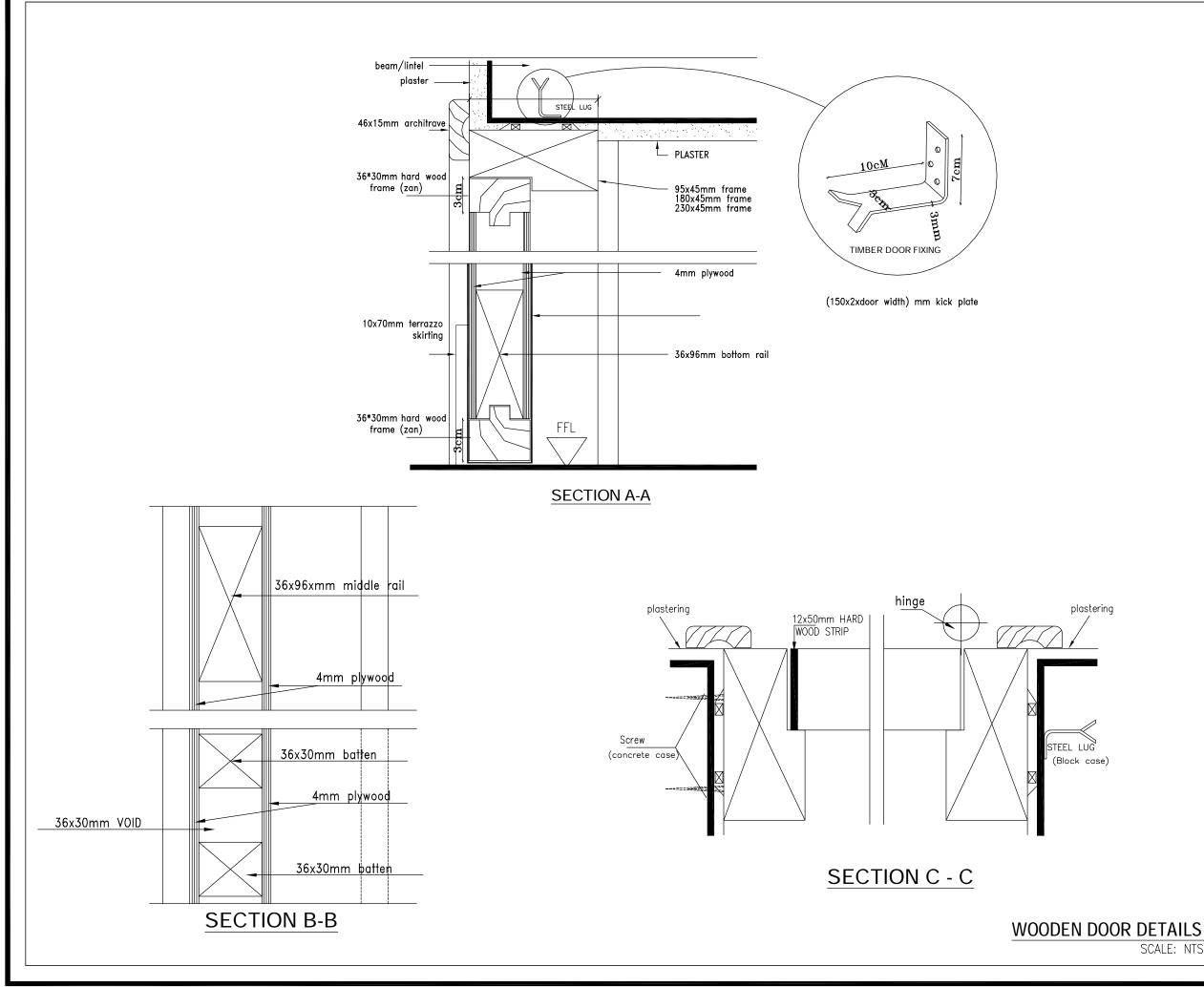


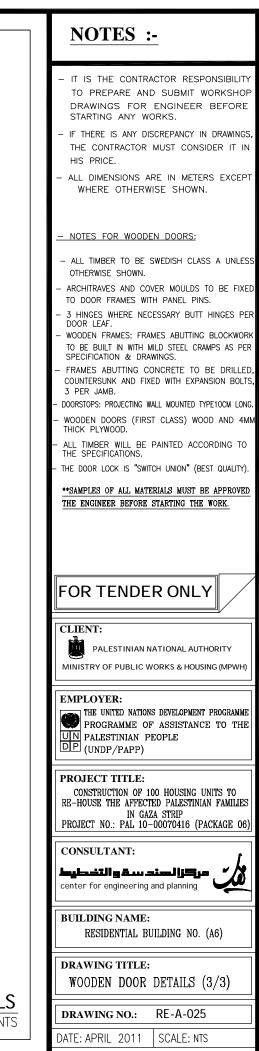




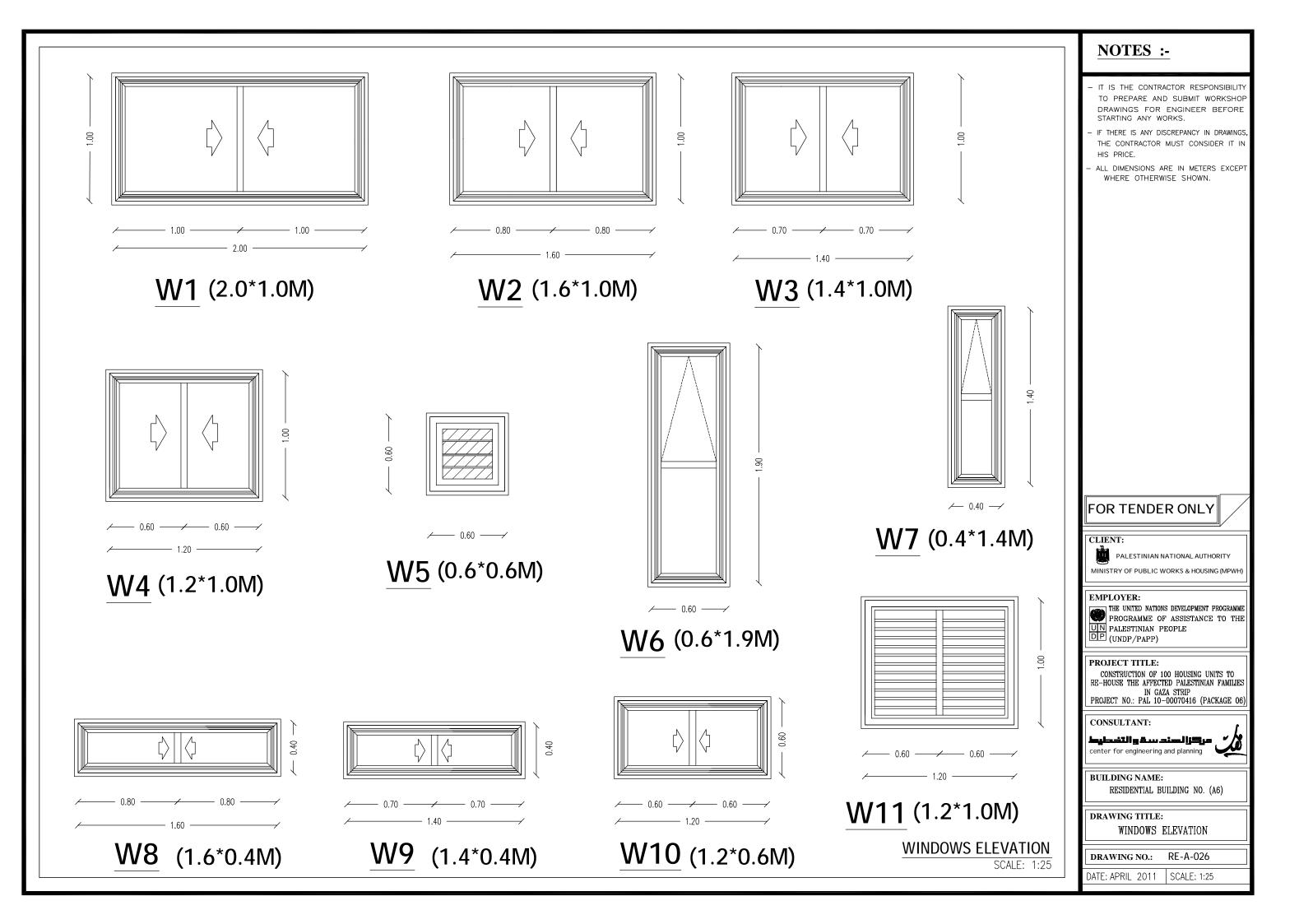


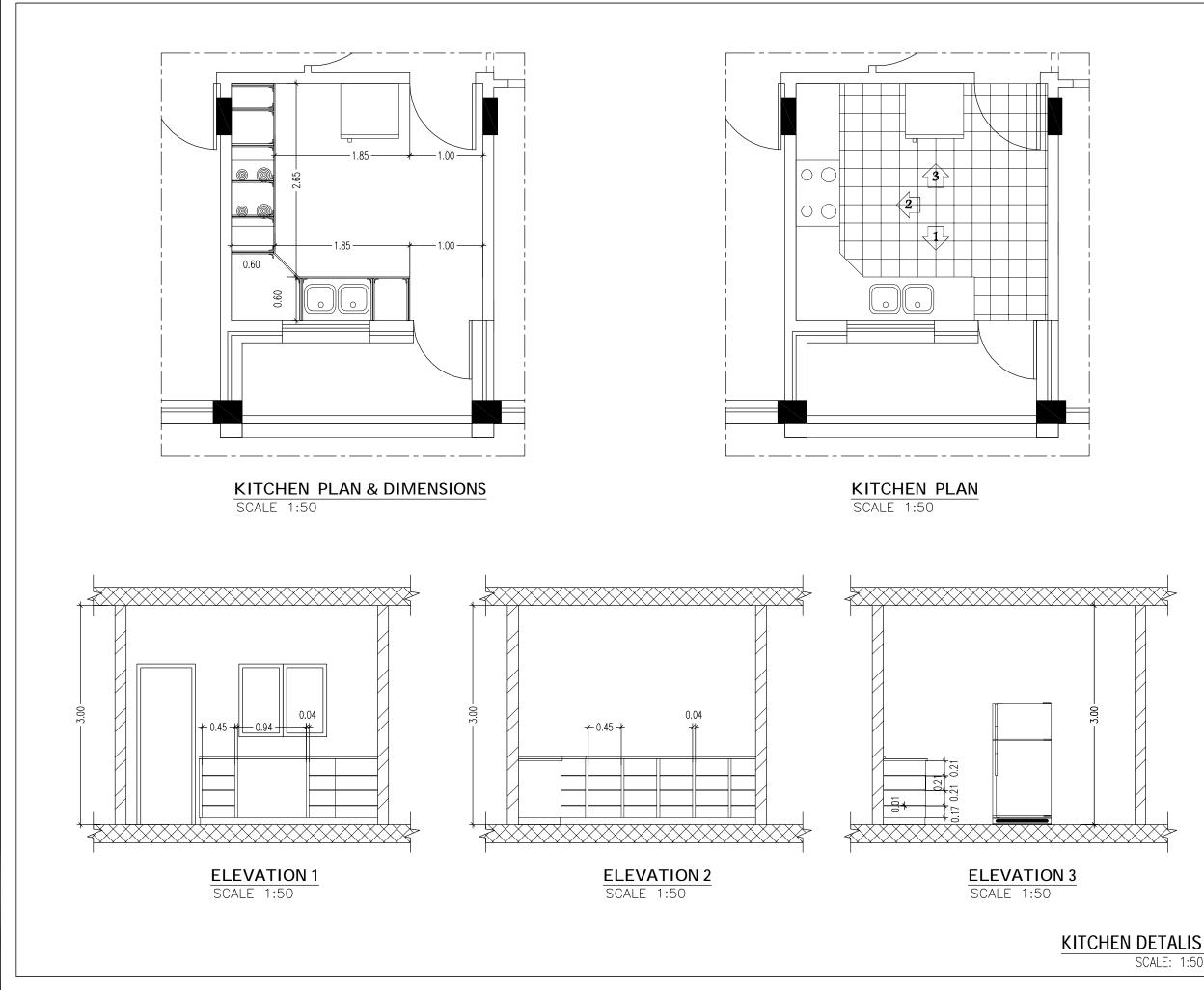
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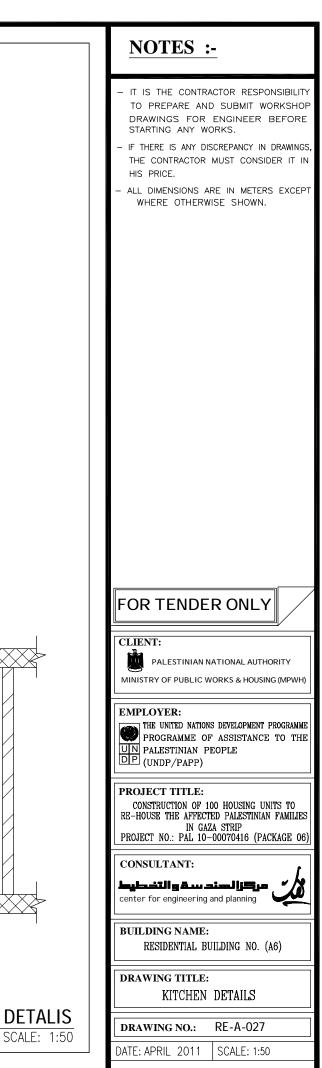


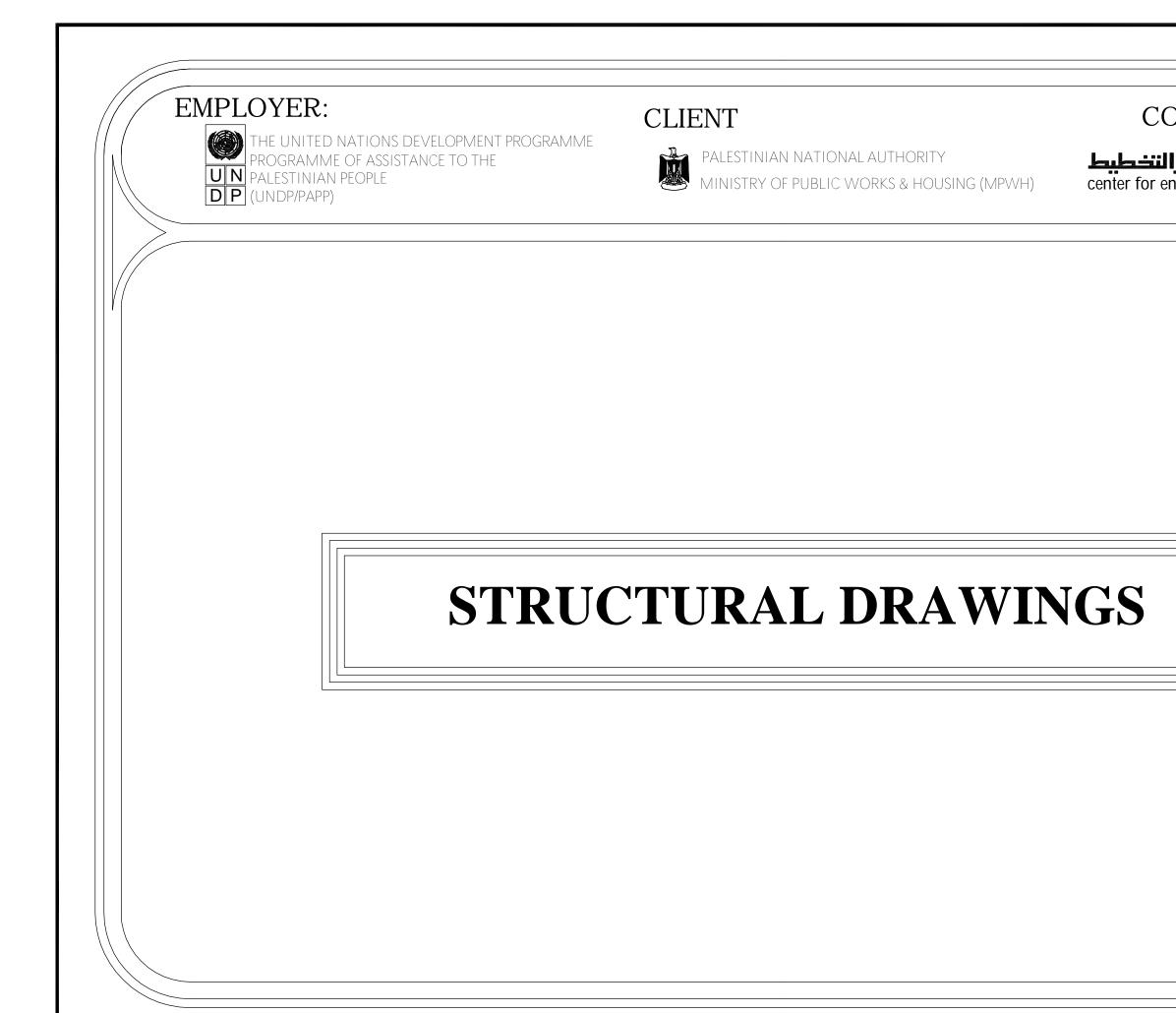


SCALE: NTS











# EMPLOYER:

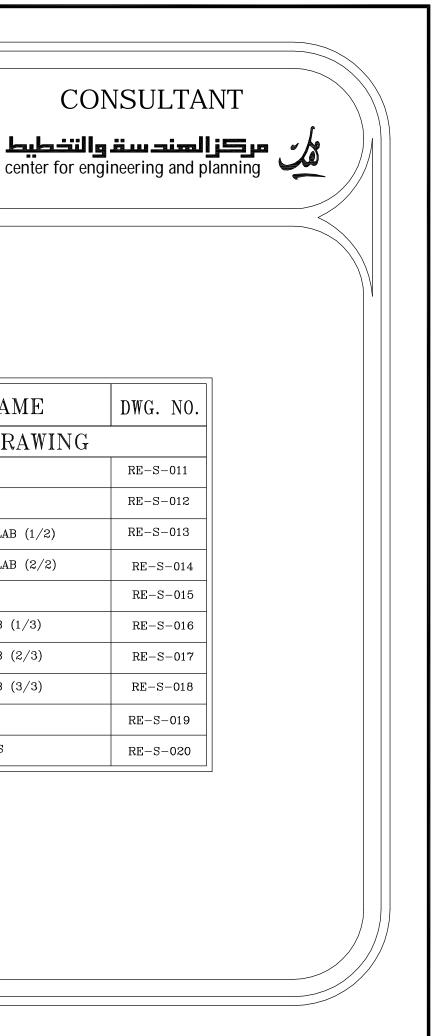


THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE UN PALESTINIAN PEOPLE DP (UNDP/PAPP)

### CLIENT



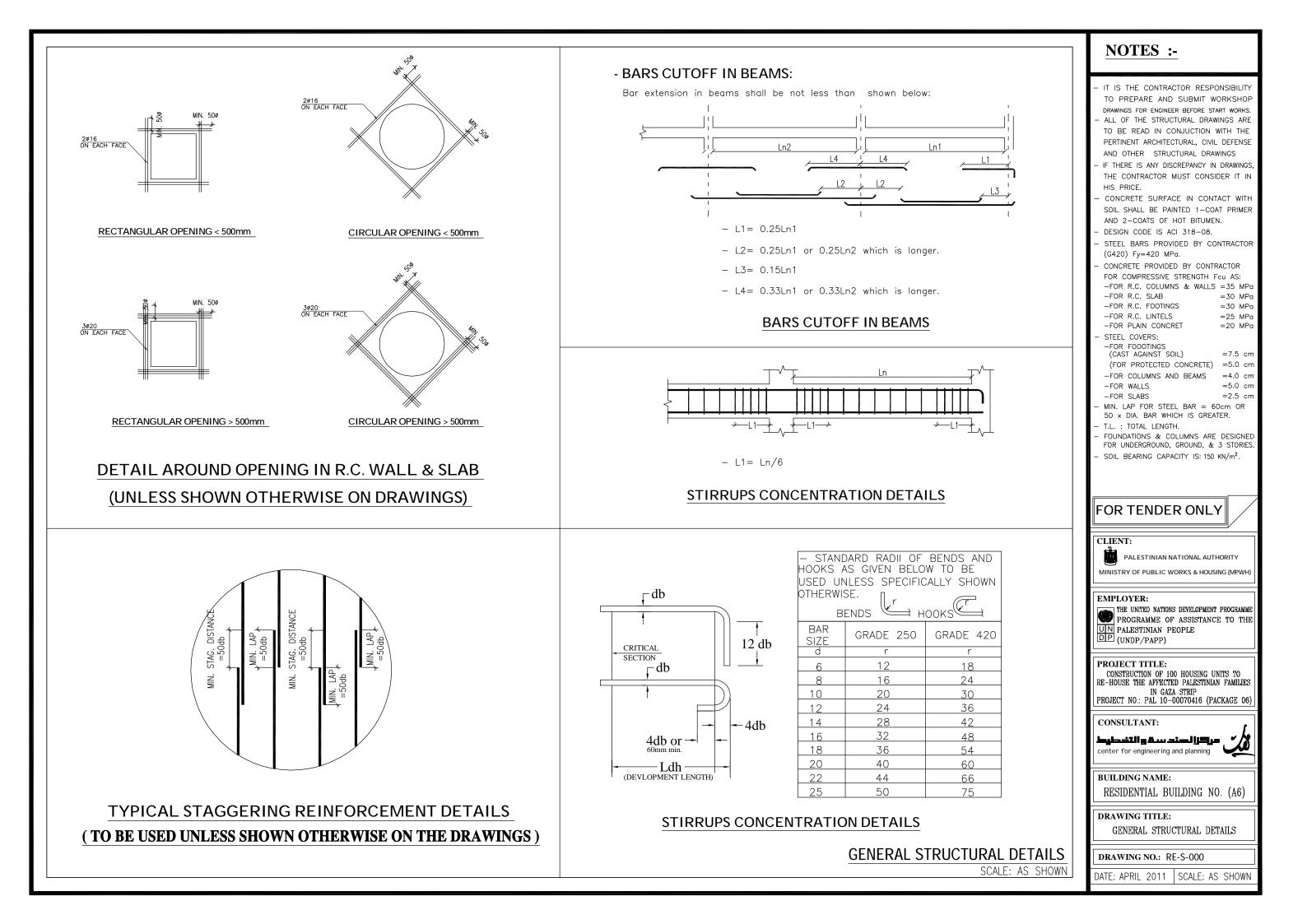
PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSI MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)

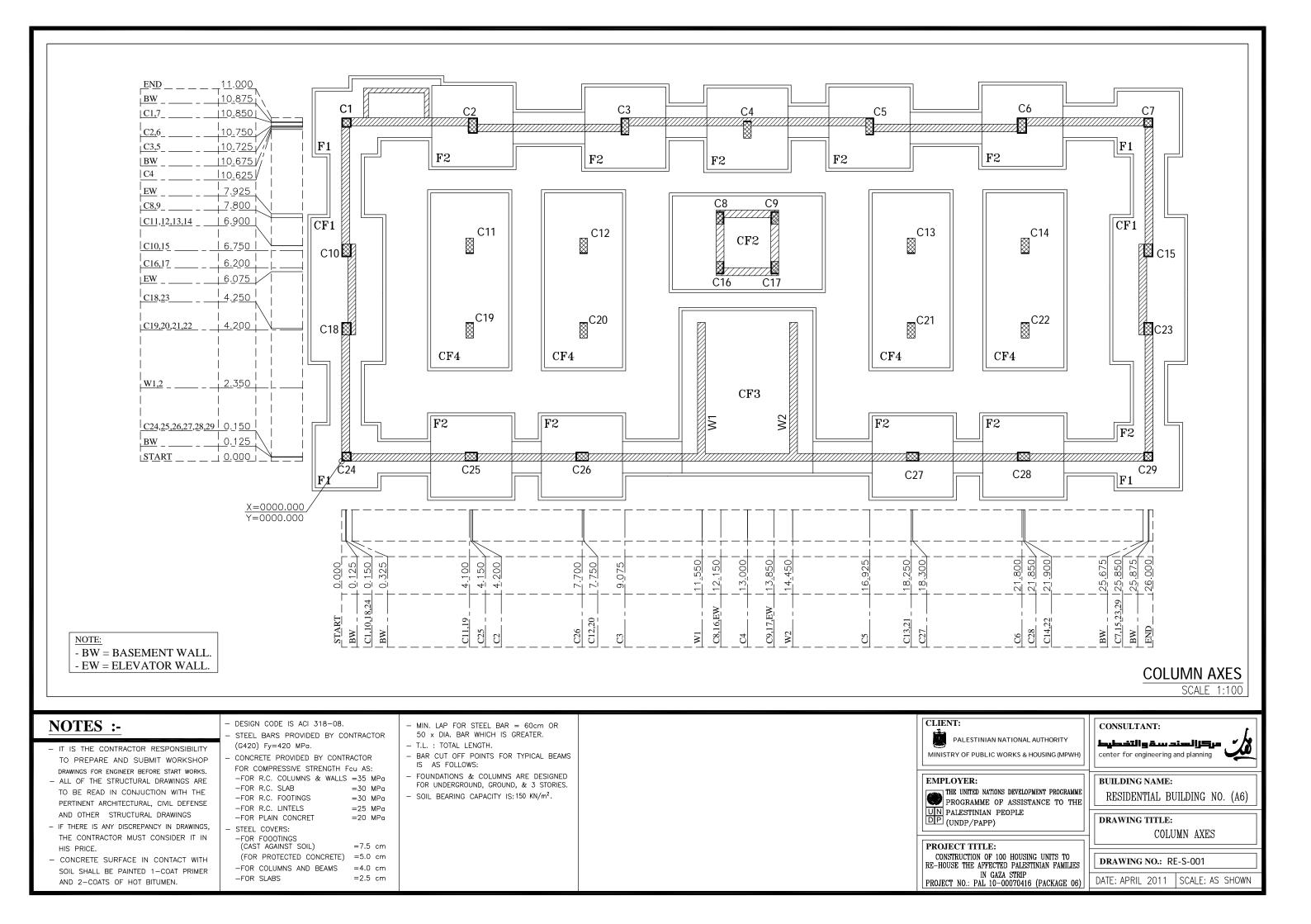


# LIST OF DRAWINGS

S/NO.	DRAWING NAME	DWG. NO.									
	STRUCTURAL DRAWING										
01/21	GENERAL STRUCTURAL DETAILS	RE-S-000									
02/21	COLUMN AXES	RE-S-001									
03/21	GENERAL LAYOUT AND DIMENSIONS FOR FOOTINGS	RE-S-002									
04/21	FOOTING DETAILS (1/2)	RE-S-003									
05/21	FOUNDATIONS DETAILS (2/2)	RE-S-004									
06/21	BASEMENT WALL & SHEAR WALL DETAILS	RE-S-005									
07/21	ELEVATOR WALL DETAILS	RE-S-006									
08/21	COLUMNS DETAILS (1/4)	RE-S-007									
09/21	COLUMNS DETAILS (2/4)	RE-S-008									
10/21	COLUMNS DETAILS (3/4)	RE-S-009									
11/21	COLUMNS DETAILS (4/4) RE-S-										

S/NO.	DRAWING NAME
	STRUCTURAL DRAWING
12/21	GROUND BEAMS DETAILS
13/21	BASEMENT SLAB DETAILS
14/21	BEAMS DETAILS OF BASEMENT SLAB (1/2)
15/21	BEAMS DETAILS OF BASEMENT SLAB (2/2)
16/21	TYPICAL SLAB DETAILS
17/21	BEAMS DETAILS OF TYPICAL SLAB (1/3)
18/21	BEAMS DETAILS OF TYPICAL SLAB (2/3)
19/21	BEAMS DETAILS OF TYPICAL SLAB (3/3)
20/21	STAIRS ROOF SLAB DETAILS
21/21	STRUCTURAL DETAILS FOR STAIRS
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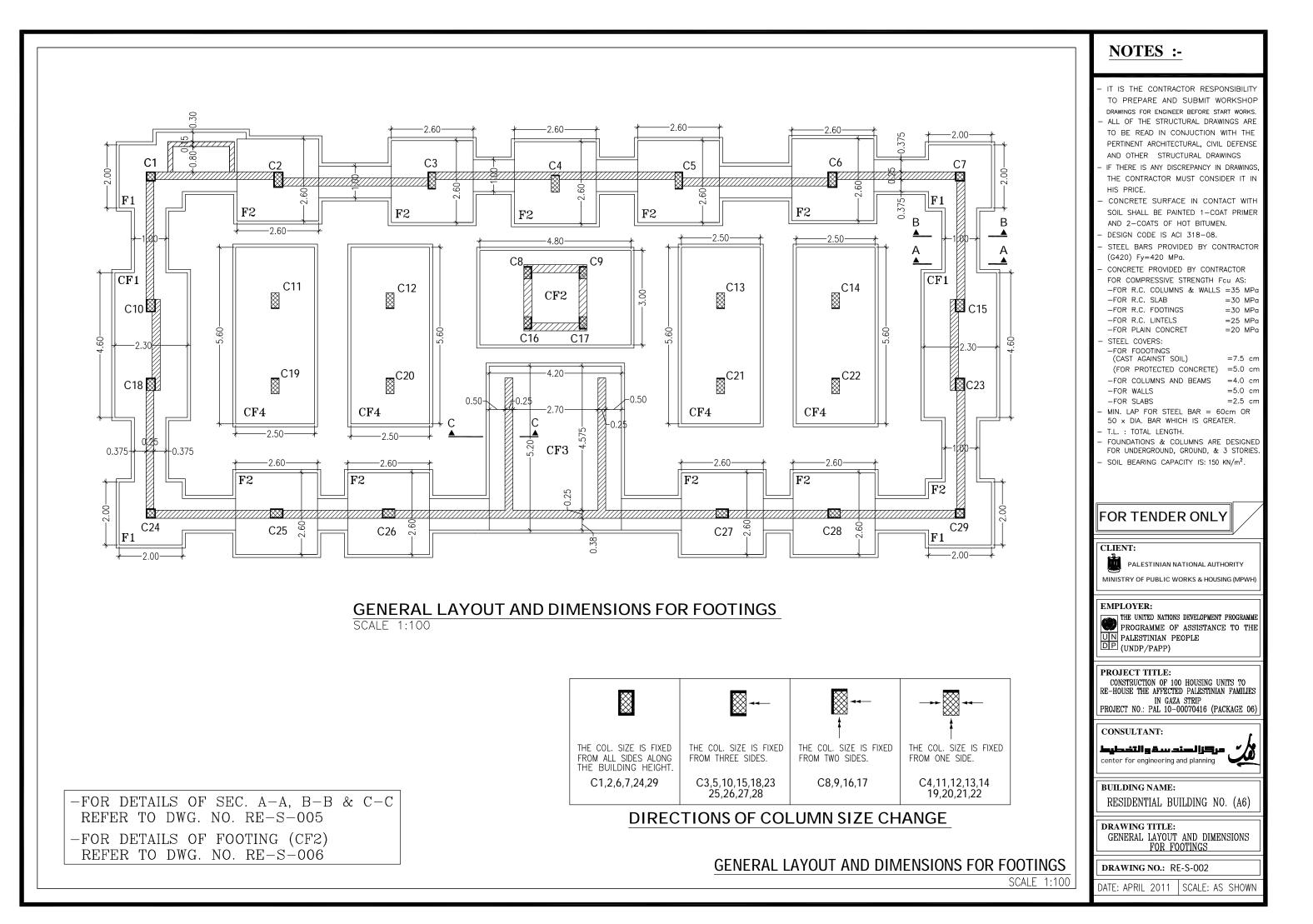
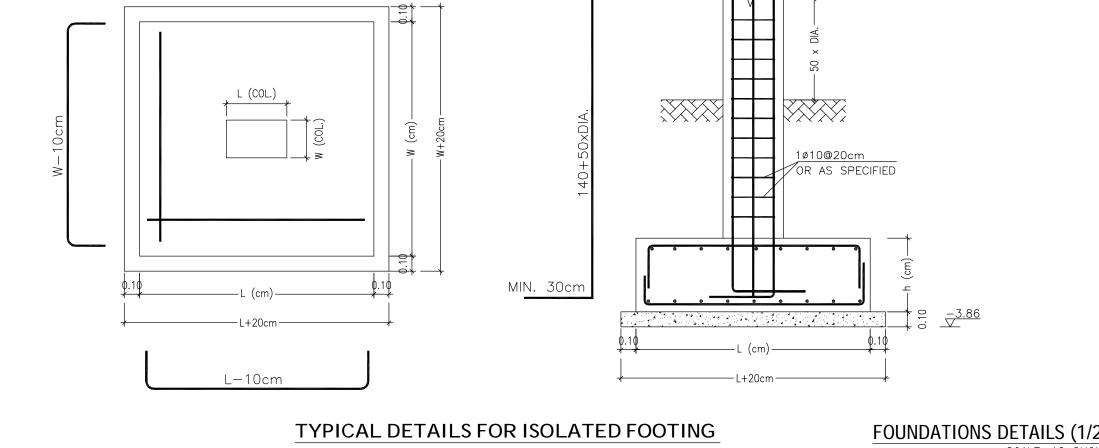


Table of Footings (I	SOLATED)
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<b></b>								
Foot	ing	tal	Foot	ings	size	F	Reinforcen	nent
FOOT. NO.	COL. NO.		L(cm)	W(cm)	h(cm)	LONG DIR.	SHORT DIR.	Shape
F1	1,7,24,29	4	200	200	40	1ø12@15cm	1ø12@15cm	TOP/190cm 20 BOT/190cm T.L=230cm
F2	2,3,4,5,6 25,26,27,28	9	260	260	50	1ø12@12.5cm	1ø12@12.5cm	TOP/250cm 30 BOT/250cm T.L=310cm

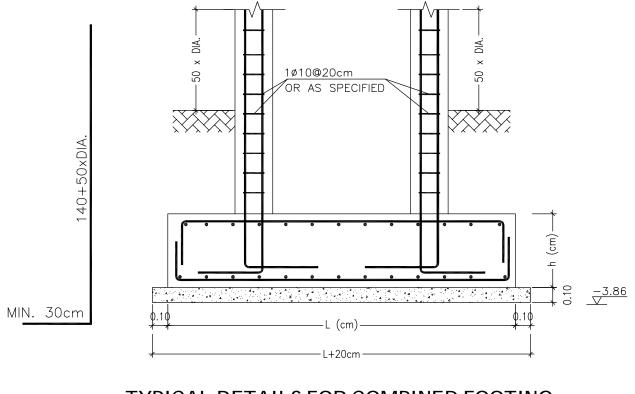


#### NOTES :-

<b>J</b> 20	<ul> <li>IT IS THE CONTRACTOR RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWINGS FOR ENGINEER BEFORE START WORKS.</li> <li>ALL OF THE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUCTION WITH THE PERTINENT ARCHITECTURAL, CIVIL DEFENSE AND OTHER STRUCTURAL DRAWINGS</li> <li>IF THERE IS ANY DISCREPANCY IN DRAWINGS, THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE.</li> <li>CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PAINTED 1-COAT PRIMER AND 2-COATS OF HOT BITUMEN.</li> <li>DESIGN CODE IS ACI 318-08.</li> <li>STEEL BARS PROVIDED BY CONTRACTOR (G420) Fy=420 MPa.</li> <li>CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH Fcu AS: -FOR R.C. COLUMNS &amp; WALLS =35 MPa -FOR R.C. FOOTINGS =30 MPa -FOR R.C. LINTELS =25 MPa -FOR PLAIN CONCRET =20 MPa</li> </ul>
<b>J</b> 30	<ul> <li>FOR PLAIN CONCRET =20 MPa</li> <li>STEEL COVERS:</li> <li>FOR FOOOTINGS (CAST AGAINST SOIL) =7.5 cm (FOR PROTECTED CONCRETE) =5.0 cm</li> <li>FOR COLUMNS AND BEAMS =4.0 cm</li> <li>FOR VALLS =5.0 cm</li> <li>FOR SLABS =2.5 cm</li> <li>MIN. LAP FOR STEEL BAR = 60cm OR 50 × DIA. BAR WHICH IS GREATER.</li> <li>T.L.: TOTAL LENGTH.</li> <li>FOUNDATIONS &amp; COLUMNS ARE DESIGNED FOR UNDERGROUND, GROUND, &amp; 3 STORIES.</li> <li>SOIL BEARING CAPACITY IS: 150 KN/m<sup>2</sup>.</li> </ul>
	FOR TENDER ONLY
	PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)
	EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE UN PALESTINIAN PEOPLE DP (UNDP/PAPP)
	PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06)
	CONSULTANT: والتخطيط center for engineering and planning
	<b>BUILDING NAME:</b> RESIDENTIAL BUILDING NO. (A6)
	DRAWING TITLE: FOOTING DETAILS (1/2)
DETAILS (1/2)	DRAWING NO.: RE-S-003
SCALE: AS SHOWN	DATE: APRIL 2011 SCALE: AS SHOWN

# Table of Footings (COMBINED)

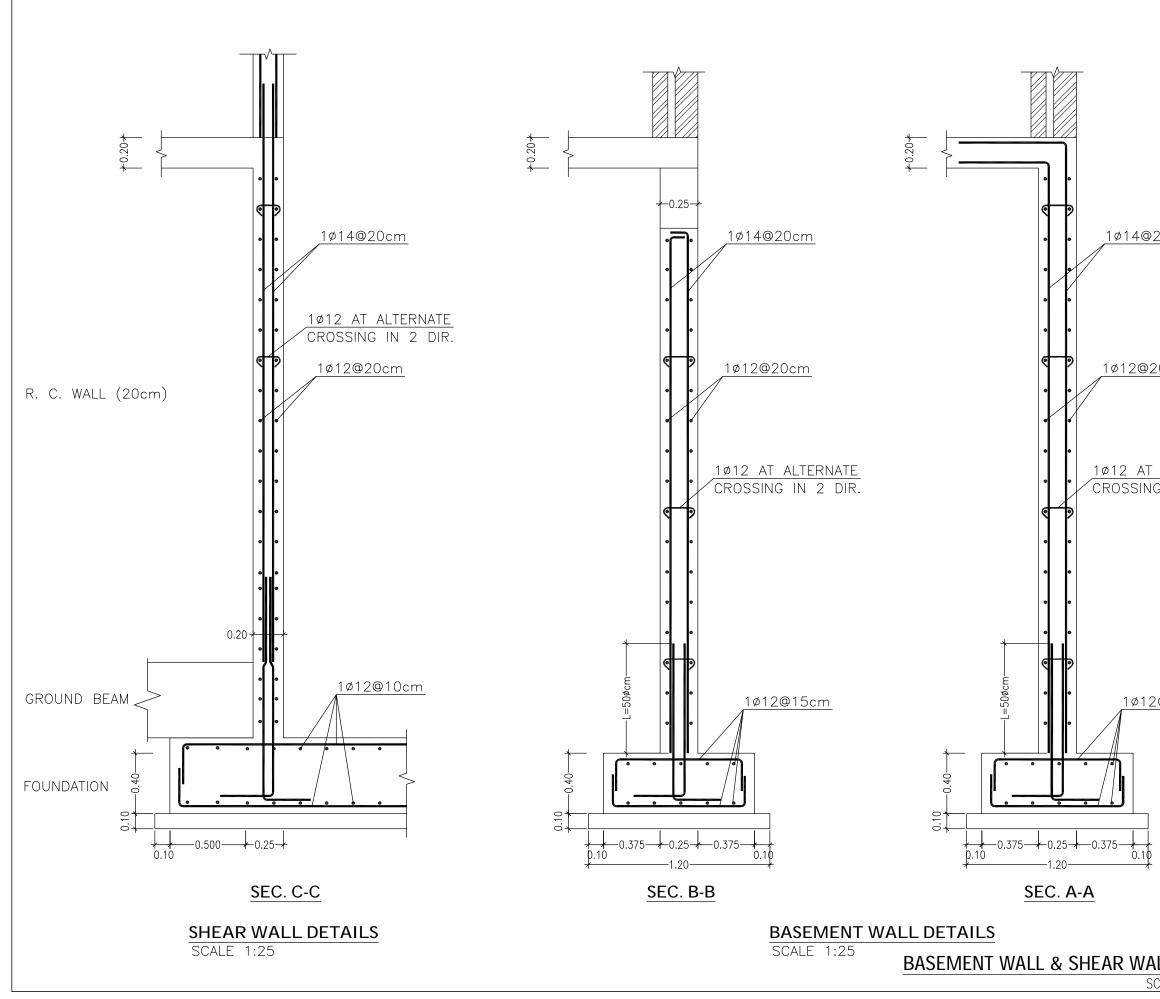
Footing		[a]	Foot	ings	size	F	Reinforce	ment
FOOT. NO.	COL. NO.	Total	L(cm)	W(cm)	h(cm)	LONG DIR. (TOP & BOT.)	SHORT DIR. (TOP & BOT.)	Shape
CF1	10,15,18,23	2	460	230	40	1ø12@15cm	1ø12@15cm	20 BOT. L OR W-10cm
CF2	8,9,16,17	1	480	300	30	1ø12@20cm	1ø12@20cm	TOP 15 BOT. L OR W-10cm
CF3	W1,W2	1	520	420	50	1ø12@10cm	1ø12@10cm	TOP 30 BOT. L OR W-10cm
CF4	11,19,12,20 13,21,14,22	4	560	250	50	1ø12@10cm	1ø12@10cm	30 BOT. L OR W-10cm



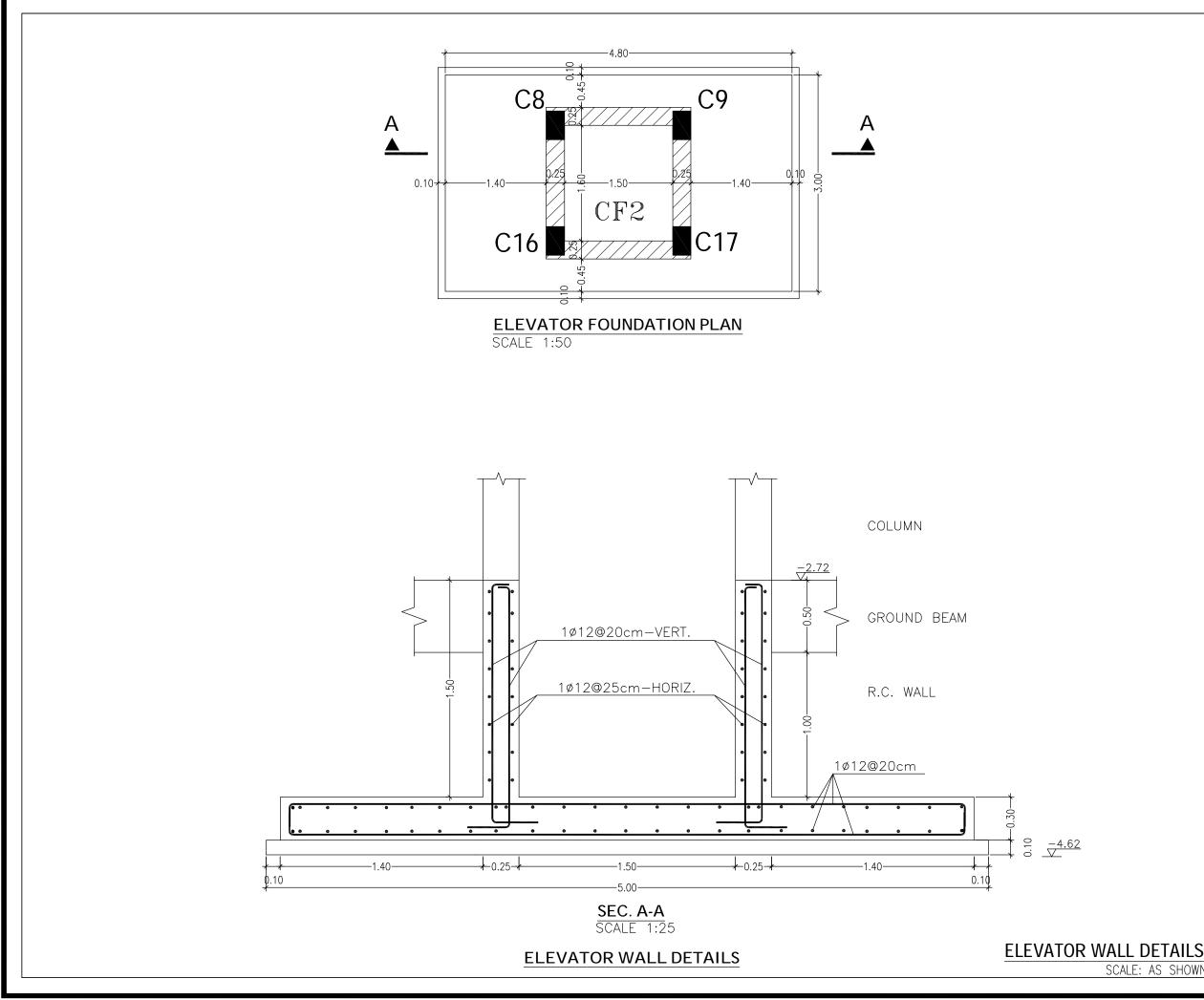
TYPICAL DETAILS FOR COMPINED FOOTING

	<ul> <li>IT IS THE CONTRACTOR RESPONSIBILITY</li> <li>TO PREPARE AND SUBMIT WORKSHOP</li> <li>DRAWINGS FOR ENGINEER BEFORE START WORKS.</li> <li>ALL OF THE STRUCTURAL DRAWINGS ARE</li> </ul>
	TO BE READ IN CONJUCTION WITH THE PERTINENT ARCHITECTURAL, CIVIL DEFENSE AND OTHER STRUCTURAL DRAWINGS - IF THERE IS ANY DISCREPANCY IN DRAWINGS, THE CONTRACTOR MUST CONSIDER IT IN
	HIS PRICE. - CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PAINTED 1-COAT PRIMER AND 2-COATS OF HOT BITUMEN. - DESIGN CODE IS ACI 318-08.
	<ul> <li>STEEL BARS PROVIDED BY CONTRACTOR (G420) Fy=420 MPa.</li> <li>CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH Fcu AS:</li> </ul>
	-FOR         R.C.         COLUMNS         & WALLS         =35         MPa           -FOR         R.C.         SLAB         =30         MPa           -FOR         R.C.         FOOTINGS         =30         MPa           -FOR         R.C.         LINTELS         =25         MPa           -FOR         PLAIN         CONCRET         =20         MPa           -         STEEL         COVERS:
	-FOR FOODTINGS (CAST AGAINST SOIL)=7.5 cm(FOR PROTECTED CONCRETE)=5.0 cm-FOR COLUMNS AND BEAMS=4.0 cm-FOR WALLS=5.0 cm
	<ul> <li>-FOR SLABS =2.5 cm</li> <li>MIN. LAP FOR STEEL BAR = 60cm OR 50 × DIA. BAR WHICH IS GREATER.</li> <li>T.L. : TOTAL LENGTH.</li> <li>- FOUNDATIONS &amp; COLUMNS ARE DESIGNED FOR UNDERGROUND, GROUND, &amp; 3 STORIES.</li> </ul>
	- SOIL BEARING CAPACITY IS: 150 KN/m <sup>2</sup> .
	FOR TENDER ONLY
	FOR TENDER ONLY
	CLIENT: PALESTINIAN NATIONAL AUTHORITY
	CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE PALESTINIAN PEOPLE
	CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE PROGRAMME OF ASSISTANCE TO THE UN PALESTINIAN PEOPLE DIP (UNDP/PAPP) PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP
	CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE PROGRAMME OF ASSISTANCE TO THE UN PALESTINIAN PEOPLE UN PALESTINIAN PEOPLE (UNDP/PAPP) PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06) CONSULTANT: Luberting Bau simplifying
	CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE PROJECT TITLE: (UNDP/PAPP) PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILLES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06) CONSULTANT: Labertill B & Labertill John Consultants center for engineering and planning
	CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) EMPLOYER: PROGRAMME OF ASSISTANCE TO THE PROGRAMME OF ASSISTANCE TO THE UN PALESTINIAN PEOPLE (UNDP/PAPP) PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06) CONSULTANT: Laberill Bau simplify center for engineering and planning EUILDING NAME: RESIDENTIAL BUILDING NO. (A6) DRAWING TITLE:





	<u>NOTES :-</u>
	<ul> <li>IT IS THE CONTRACTOR RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWINGS FOR ENGINEER BEFORE START WORKS.</li> <li>ALL OF THE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUCTION WITH THE PERTINENT ARCHITECTURAL, CIVIL DEFENSE AND OTHER STRUCTURAL DRAWINGS</li> <li>IF THERE IS ANY DISCREPANCY IN DRAWINGS, THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE.</li> <li>CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PAINTED 1-COAT PRIMER AND 2-COATS OF HOT BITUMEN.</li> </ul>
<u>20cm</u>	<ul> <li>DESIGN CODE IS ACI 318-08.</li> <li>STEEL BARS PROVIDED BY CONTRACTOR (G420) Fy=420 MPa.</li> <li>CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH Fcu AS: -FOR R.C. COLUMNS &amp; WALLS =35 MPa</li> </ul>
<u>ALTERNATE</u> G IN 2 DIR.	-FOR R.C. SLAB       = 30 MPa         -FOR R.C. FOOTINGS       = 30 MPa         -FOR R.C. LINTELS       = 25 MPa         -FOR PLAIN CONCRET       = 20 MPa         -FOR PLAIN CONCRET       = 20 MPa         -FOR FOOTINGS       (CAST AGAINST SOIL)         (FOR PROTECTED CONCRETE)       = 5.0 cm         -FOR COLUMNS AND BEAMS       = 4.0 cm         -FOR WALLS       = 5.0 cm         -FOR SLABS       = 2.5 cm         MIN. LAP FOR STEEL BAR       = 60cm OR         50 × DIA. BAR WHICH IS GREATER.       T.L. : TOTAL LENGTH.         - FOUNDATIONS & COLUMNS ARE DESIGNED       FOR UNDERGROUND, GROUND, & 3 STORIES.         - SOIL BEARING CAPACITY IS: 150 KN/m <sup>2</sup> .
	FOR TENDER ONLY
<u>@15cm</u>	EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE PALESTINIAN PEOPLE DP (UNDP/PAPP) PROJECT TITLE:
	CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06)
	CONSULTANT: مرکزالسند سے والتخطیط center for engineering and planning
	<b>BUILDING NAME:</b> RESIDENTIAL BUILDING NO. (A6)
	DRAWING TITLE: BASEMENT WALL & SHEAR WALL DETAILS
LL DETAILS	DRAWING NO.: RE-S-005
CALE: AS SHOWN	DATE: APRIL 2011 SCALE: AS SHOWN
	l

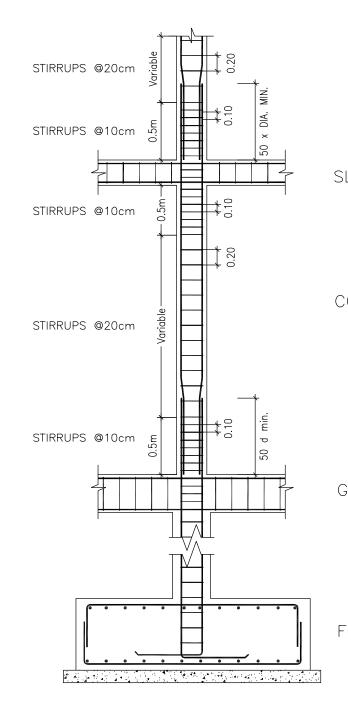


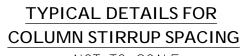
## NOTES :-

	<ul> <li>IT IS THE CONTRACTOR RESPONSIBILITY</li> <li>TO PREPARE AND SUBMIT WORKSHOP</li> <li>DRAWINGS FOR ENGINEER BEFORE START WORKS.</li> <li>ALL OF THE STRUCTURAL DRAWINGS ARE</li> <li>TO BE READ IN CONJUCTION WITH THE</li> </ul>
	PERTINENT ARCHITECTURAL, CIVIL DEFENSE AND OTHER STRUCTURAL DRAWINGS - IF THERE IS ANY DISCREPANCY IN DRAWINGS, THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE.
	<ul> <li>CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PAINTED 1-COAT PRIMER AND 2-COATS OF HOT BITUMEN.</li> <li>DESIGN CODE IS ACI 318-08.</li> <li>STEEL BARS PROVIDED BY CONTRACTOR</li> </ul>
	(G420) Fy=420 MPa. - CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH Fcu AS: -FOR R.C. COLUMNS & WALLS =35 MPa
	-FOR R.C. FOOTINGS     =30 MPa       -FOR R.C. LINTELS     =25 MPa       -FOR PLAIN CONCRET     =20 MPa       - STEEL COVERS:     -FOR FOODTINGS
	(CAST AGAINST SOIL)       =7.5 cm         (FOR PROTECTED CONCRETE)       =5.0 cm         -FOR COLUMNS AND BEAMS       =4.0 cm         -FOR WALLS       =5.0 cm         -FOR SLABS       =2.5 cm         - MIN. LAP FOR STEEL BAR = 60cm OR
	<ul> <li>50 × DIA. BAR WHICH IS GREATER.</li> <li>T.L. : TOTAL LENGTH.</li> <li>FOUNDATIONS &amp; COLUMNS ARE DESIGNED FOR UNDERGROUND, GROUND, &amp; 3 STORIES.</li> <li>SOIL BEARING CAPACITY IS: 150 KN/m<sup>2</sup>.</li> </ul>
	FOR TENDER ONLY
	FOR TENDER ONLY
	CLIENT: PALESTINIAN NATIONAL AUTHORITY
	CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE PALESTINIAN PEOPLE
	CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE PROGRAMME OF ASSISTANCE TO THE UN PALESTINIAN PEOPLE UN PALESTINIAN PEOPLE (UNDP/PAPP) PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP
	CONSULTANT:
	CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROCRAMME PROGRAMME OF ASSISTANCE TO THE PROPERAMME OF ASSISTANCE TO THE UN PALESTINIAN PEOPLE UN PALESTINIAN PEOPLE UNDP/PAPP) PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06) CONSULTANT: Laberill Ban simplifier center for engineering and planning
	CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) EMPLOYER: PROGRAMME OF ASSISTANCE TO THE PROGRAMME OF ASSISTANCE TO THE PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06) CONSULTANT: Center for engineering and planning EUILDING NAME: RESIDENTIAL BUILDING NO. (A6) DRAWING TITLE:

SCALE: AS SHOW

DETAILS FOR COLUMNS NICK & COLUMNS						
FLOOR	COLUMNS NO.	TOTAL	DETAILS			
	C1,7,24,29	4	0.30 3ø12 2ø12 3ø12 3ø12	ST. 2¢10@20cm-MIDDLE ST. 2¢10@10cm-END		
	C10,15,18,23 25,26,27,28	8	0.40 3ø14 2ø14 3ø14	ST. 2ø10@20cm-MIDDLE ST. 2ø10@10cm-END		
COLUM NICK	C3,4,5	3	0.55 5ø14 5ø14 5ø14	ST. 2ø10@20cm-MIDDLE ST. 2ø10@10cm-END		
	C2,6	2	0.50 4ø14 2ø14 4ø14	ST. 2¢10@20cm-MIDDLE ST. 2¢10@10cm-END		
	C11,12,13,14 19,20,21,22	8	0.50 5ø14 5ø14 5ø14	ST. 2¢10@20cm-MIDDLE ST. 2¢10@10cm-END		
	C8,9,16,17	4	3ø14 3ø14	ST. 1ø10@20cm-MIDDLE ST. 1ø10@10cm-END		





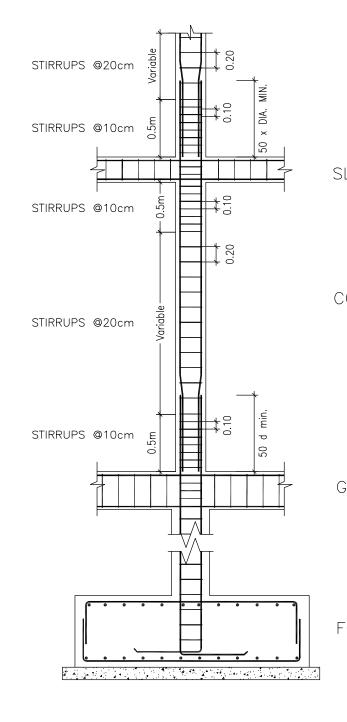
NOT TO SCALE

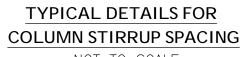
COLUMNS DE

SC

	<u>NOTES :-</u>
LAB	<ul> <li>IT IS THE CONTRACTOR RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWINGS FOR ENGINEER BEFORE START WORKS.</li> <li>ALL OF THE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUCTION WITH THE PERTINENT ARCHITECTURAL, CIVIL DEFENSE AND OTHER STRUCTURAL DRAWINGS</li> <li>IF THERE IS ANY DISCREPANCY IN DRAWINGS, THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE.</li> <li>CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PAINTED 1 – COAT PRIMER AND 2–COATS OF HOT BITUMEN.</li> <li>DESIGN CODE IS ACI 318–08.</li> <li>STEEL BARS PROVIDED BY CONTRACTOR (G420) Fy=420 MPa.</li> <li>CONCRETE PROVIDED BY CONTRACTOR FOR R.C. CULUMNS &amp; WALLS =35 MPa –FOR R.C. SLAB =30 MPa</li> <li>FOR R.C. LINTELS =25 MPa</li> <li>FOR PLAIN CONCRET =20 MPa</li> <li>STEEL COVERS: –FOR FOODINGS (CAST AGAINST SOIL) =7.5 cm (FOR PROTECTED CONCRETE) =5.0 cm</li> </ul>
	-FOR COLUMNS AND BEAMS =4.0 cm -FOR WALLS =5.0 cm -FOR SLABS =2.5 cm - MIN. LAP FOR STEEL BAR = 60cm OR 50 × DIA. BAR WHICH IS GREATER. - T.L. : TOTAL LENGTH. - FOUNDATIONS & COLUMNS ARE DESIGNED FOR UNDERGROUND, GROUND, & 3 STORIES. - SOIL BEARING CAPACITY IS: 200 KN/m <sup>2</sup> .
G. BEAM	CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)
OUND.	EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE UN PALESTINIAN PEOPLE (UNDP/PAPP) PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO DE HOUSE THE REPORTED DUESTINAN FAMILIES
	RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06) CONSULTANT:
	<b>BUILDING NAME:</b> RESIDENTIAL BUILDING NO. (A6)
	DRAWING TITLE: COLUMNS DETAILS (1/4)
TAILS (1/3) Cale: as shown	DRAWING NO.:RE-S-007DATE:APRIL2011SCALE:ASSHOWN

DETAILS FOR COLUMNS NICK & COLUMNS						
FLOOR	COLUMNS NO.	TOTAL	DETAILS			
BASEMENT FLOOR	C1,7,24,29	4	0.30 3ø12 2ø12 3ø12 3ø12	ST. 2ø10@20cm-MIDDLE ST. 2ø10@10cm-END		
	C10,15,18,23 25,26,27,28	8	0.40 3ø14 2ø14 3ø14	ST. 2ø10@20cm-MIDDLE ST. 2ø10@10cm-END		
	C3,4,5	3	0.55 5ø14 5ø14 5ø14	ST. 2Ø10@20cm-MIDDLE ST. 2Ø10@10cm-END		
	C2,6	2	0.50 4ø14 2ø14 4ø14	ST. 2¢10@20cm-MIDDLE ST. 2¢10@10cm-END		
	C11,12,13,14 19,20,21,22	8	0.50 5ø14 5ø14 5ø14	ST. 2¢10@20cm-MIDDLE ST. 2¢10@10cm-END		
	C8,9,16,17	4	3ø14 3ø14	ST. 1ø10@20cm-MIDDLE ST. 1ø10@10cm-END		



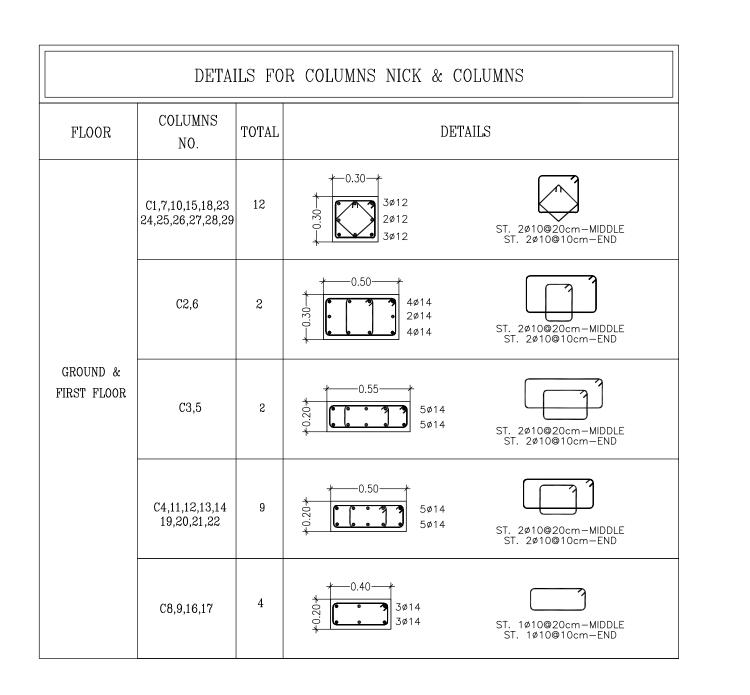


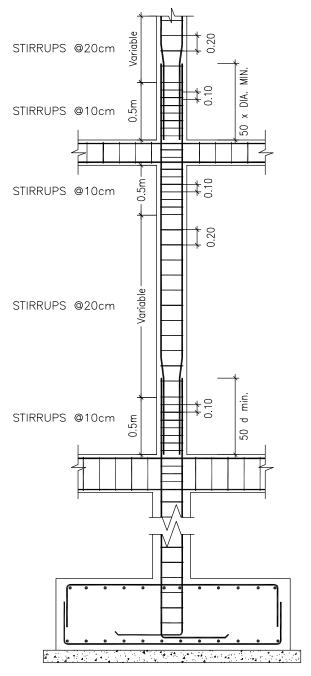
NOT TO SCALE

COLUMNS DE

SC

	<u>NOTES :-</u>
LAB	<ul> <li>IT IS THE CONTRACTOR RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWINGS FOR ENGINEER BEFORE START WORKS.</li> <li>ALL OF THE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUCTION WITH THE PERTINENT ARCHITECTURAL, CIVIL DEFENSE AND OTHER STRUCTURAL DRAWINGS</li> <li>IF THERE IS ANY DISCREPANCY IN DRAWINGS, THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE.</li> <li>CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PAINTED 1-COAT PRIMER AND 2-COATS OF HOT BITUMEN.</li> <li>DESIGN CODE IS ACI 318-08.</li> <li>STEEL BARS PROVIDED BY CONTRACTOR (G420) Fy=420 MPa.</li> <li>CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH Fcu AS: -FOR R.C. COLUMNS &amp; WALLS =35 MPa -FOR R.C. CONTROL FOR R.C. FOOTINGS =30 MPa -FOR R.C. LINTELS =25 MPa -FOR PLAIN CONCRET =20 MPa</li> <li>STEEL COVERS: -FOR FOOOTINGS (CAST AGAINST SOIL) =7.5 cm (FOR POTECTED CONCRETE) =5.0 cm -FOR COLUMNS AND BEAMS =4.0 cm -FOR WALLS =5.0 cm</li> <li>FOR WALLS =5.0 cm</li> </ul>
G. BEAM	<ul> <li>T.L. : TOTAL LENGTH.</li> <li>FOUNDATIONS &amp; COLUMNS ARE DESIGNED FOR UNDERGROUND, GROUND, &amp; 3 STORIES.</li> <li>SOIL BEARING CAPACITY IS: 200 KN/m<sup>2</sup>.</li> </ul>
	CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)
OUND.	EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE UN PALESTINIAN PEOPLE DP (UNDP/PAPP)
	PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06)
	CONSULTANT: مرکزالسند سط والتخطیط center for engineering and planning
	BUILDING NAME: RESIDENTIAL BUILDING NO. (A6)
	DRAWING TITLE: COLUMNS DETAILS (2/4)
TAILS (1/3) Cale: as shown	DRAWING NO.:RE-S-008DATE:APRIL2011SCALE:ASSHOWN

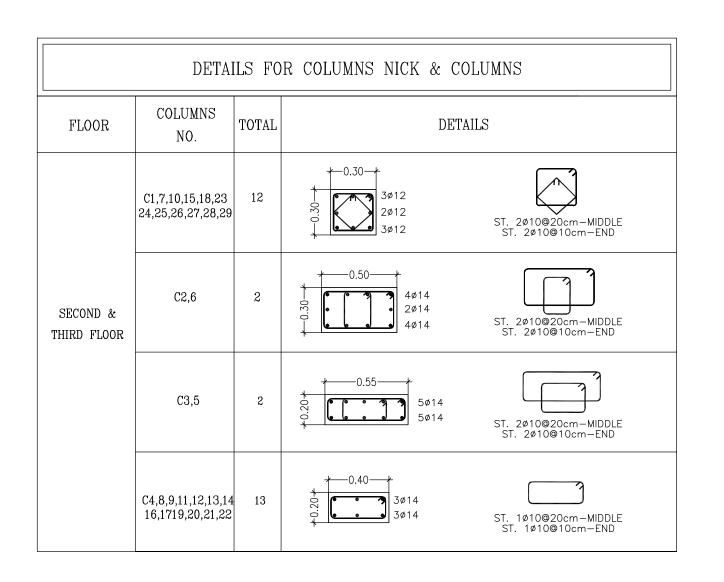


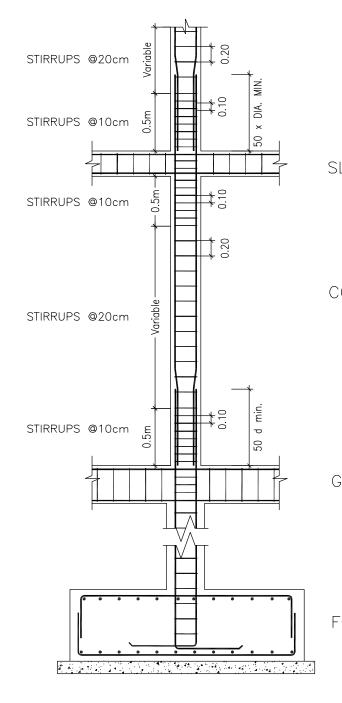


**TYPICAL DETAILS FOR** COLUMN STIRRUP SPACING NOT TO SCALE

COLUMNS DE

	<u>NOTES :-</u>
SLAB	<ul> <li>IT IS THE CONTRACTOR RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWINGS FOR ENGINEER BEFORE START WORKS.</li> <li>ALL OF THE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUCTION WITH THE PERTINENT ARCHITECTURAL, CIVIL DEFENSE AND OTHER STRUCTURAL DRAWINGS</li> <li>IF THERE IS ANY DISCREPANCY IN DRAWINGS, THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE.</li> <li>CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PAINTED 1–COAT PRIMER AND 2–COATS OF HOT BITUMEN.</li> <li>DESIGN CODE IS ACI 318–08.</li> <li>STEEL BARS PROVIDED BY CONTRACTOR (G420) Fy=420 MPa.</li> <li>CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH Fcu AS: -FOR R.C. COLUMNS &amp; WALLS =35 MPa -FOR R.C. FOOTINGS =30 MPa -FOR R.C. FOOTINGS =30 MPa</li> </ul>
COLUMN	<ul> <li>-FOR R.C. LINTELS =25 MPa</li> <li>-FOR PLAIN CONCRET =20 MPa</li> <li>STEEL COVERS:</li> <li>-FOR FOOOTINGS (CAST AGAINST SOIL) =7.5 cm (FOR PROTECTED CONCRETE) =5.0 cm</li> <li>-FOR COLUMNS AND BEAMS =4.0 cm</li> <li>-FOR WALLS =5.0 cm</li> <li>-FOR WALLS =5.0 cm</li> <li>-FOR SLABS =2.5 cm</li> <li>MIN. LAP FOR STEEL BAR = 60cm OR</li> <li>50 × DIA. BAR WHICH IS GREATER.</li> <li>T.L. : TOTAL LENGTH.</li> <li>- FOUNDATIONS &amp; COLUMNS ARE DESIGNED</li> <li>FOR UNDERGROUND, GROUND, &amp; 3 STORIES.</li> <li>SOIL BEARING CAPACITY IS: 200 KN/m<sup>2</sup>.</li> </ul>
G. BEAM	FOR TENDER ONLY
FOUND.	MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE UN PALESTINIAN PEOPLE DP (UNDP/PAPP)
	PROJECT TITLE:         CONSTRUCTION OF 100 HOUSING UNITS TO         RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES         IN GAZA STRIP         PROJECT NO.: PAL 10-00070416 (PACKAGE 06)         CONSULTANT:         Logic Iterian Balling         CONSULTANT:         Logic Iterian Balling         Consultant:         Logic Iterian Balling
	BUILDING NAME: RESIDENTIAL BUILDING NO. (A6)
	DRAWING TITLE: COLUMNS DETAILS (3/4)
DETAILS (2/3) SCALE: AS SHOWN	DRAWING NO.:         RE-S-009           DATE:         APRIL         2011         SCALE:         AS         SHOWN



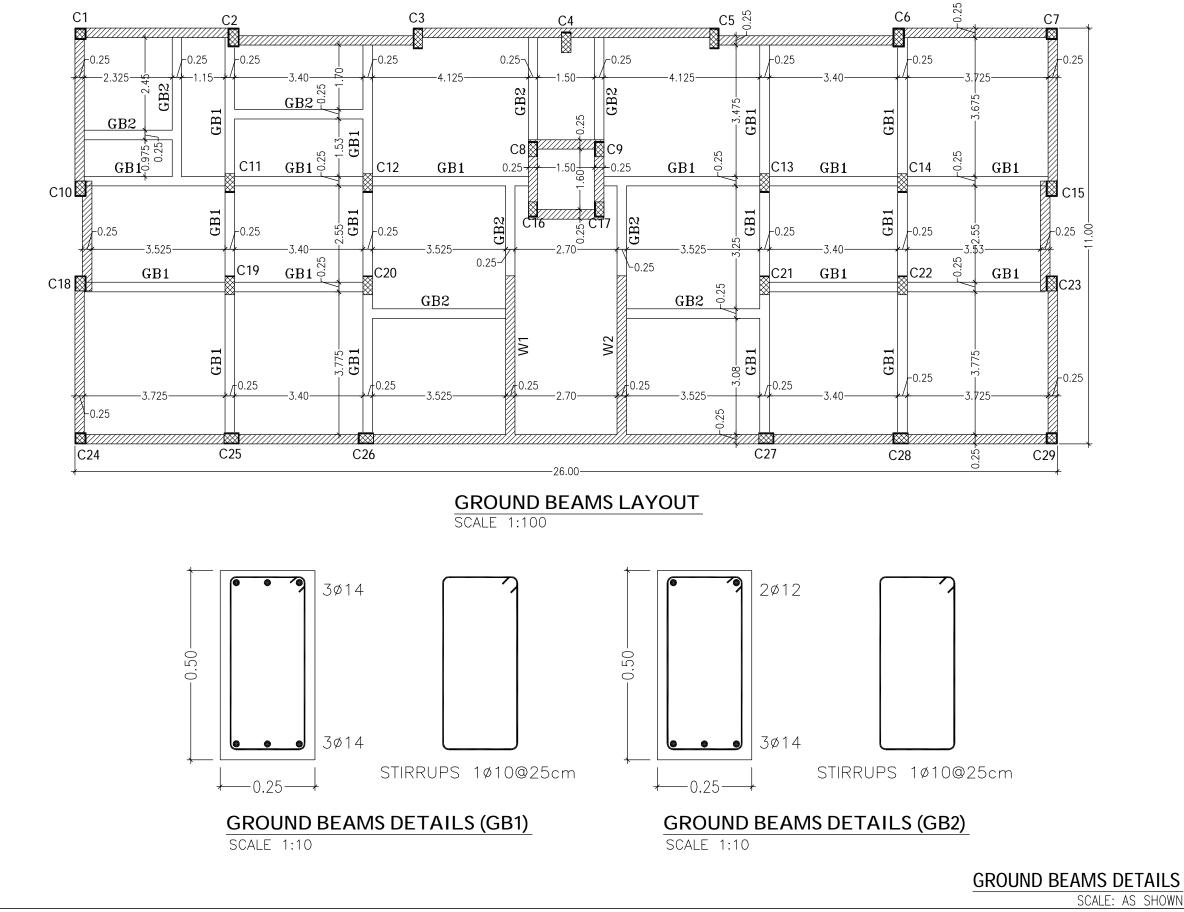


TYPICAL DETAILS FORCOLUMN STIRRUP SPACINGNOT TO SCALE

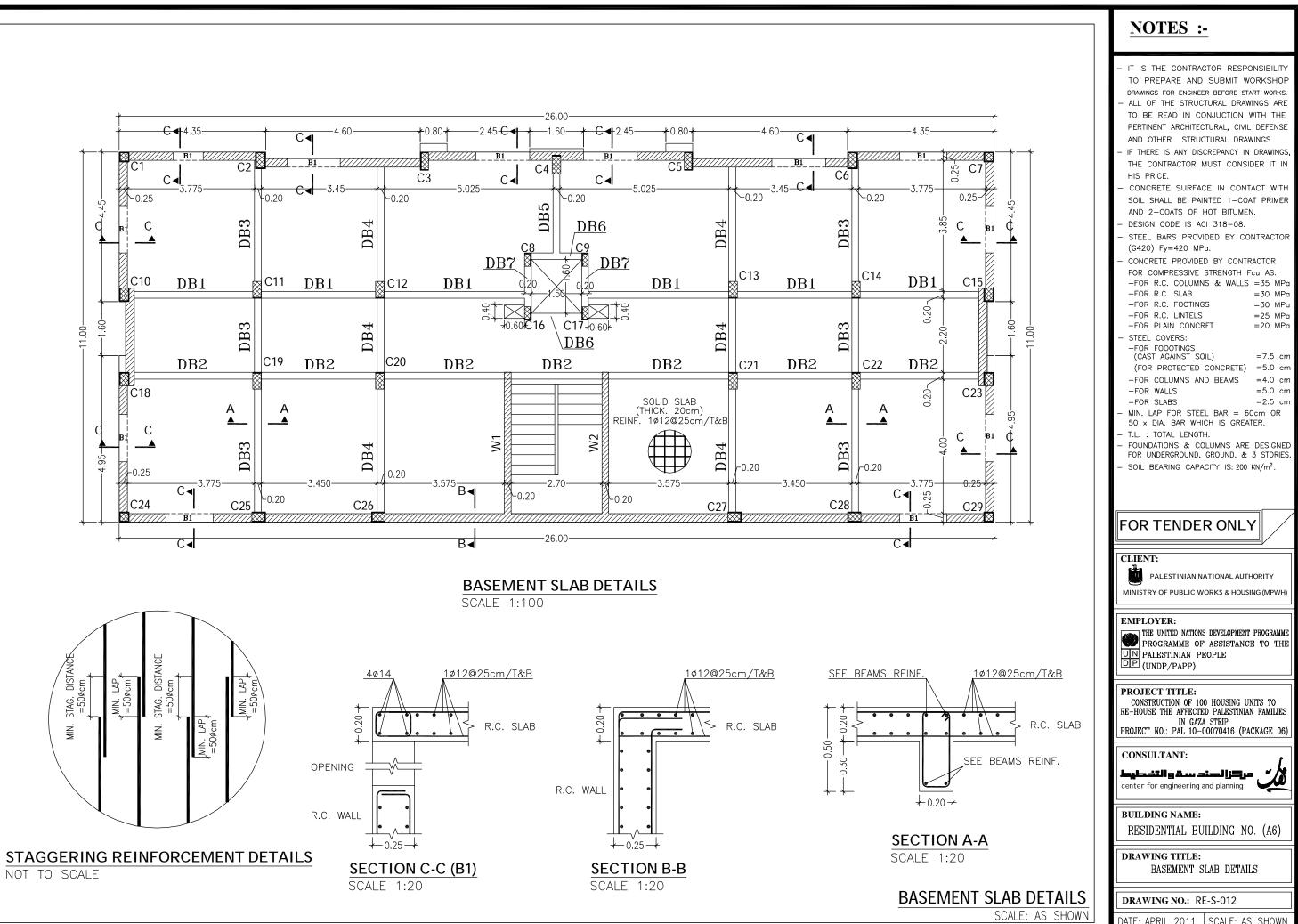
### COLUMNS DE

SC

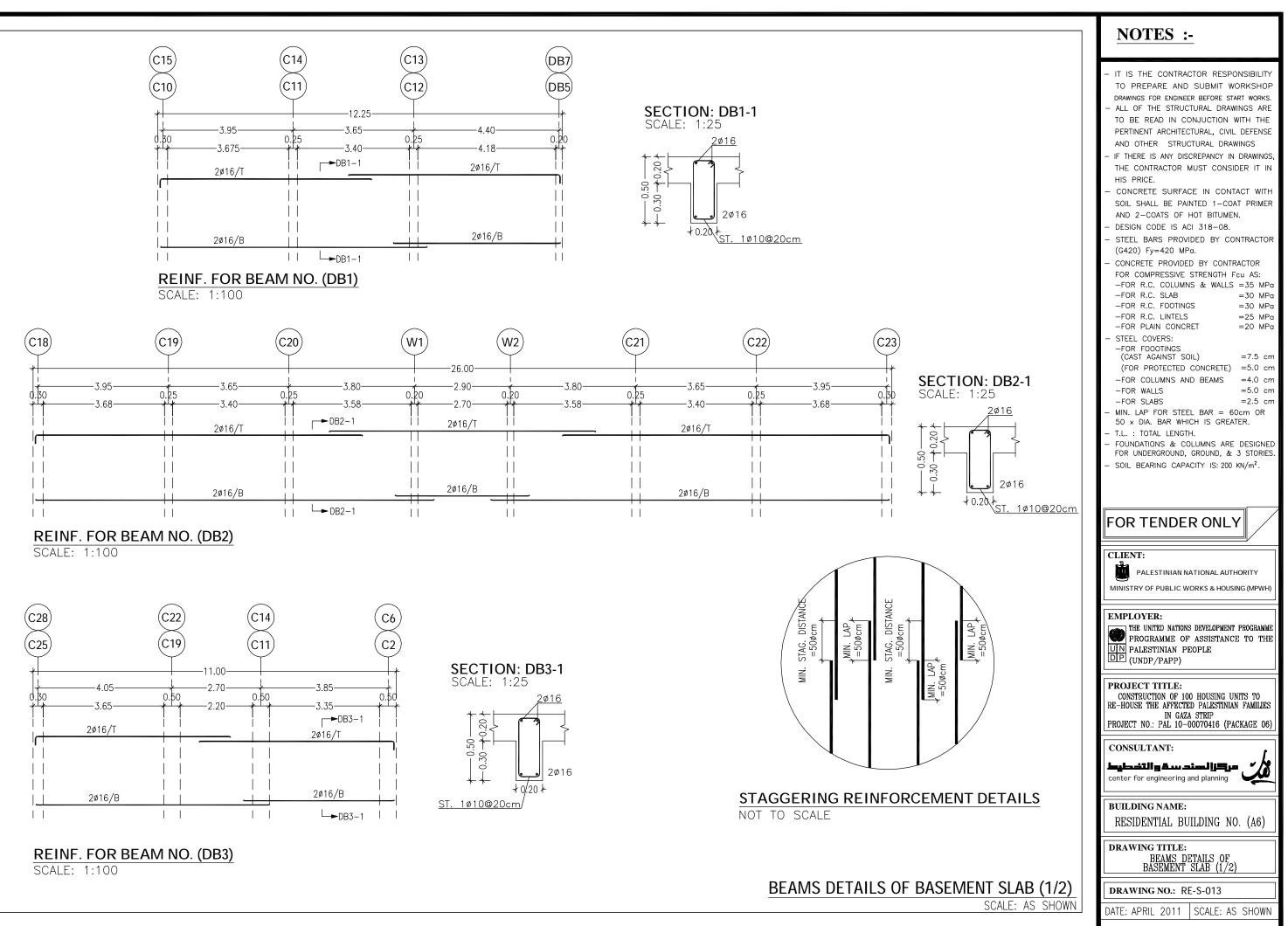
	<u>NOTES :-</u>
LAB	<ul> <li>IT IS THE CONTRACTOR RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWINGS FOR ENGINEER BEFORE START WORKS.</li> <li>ALL OF THE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUCTION WITH THE PERTINENT ARCHITECTURAL, CIVIL DEFENSE AND OTHER STRUCTURAL DRAWINGS</li> <li>IF THERE IS ANY DISCREPANCY IN DRAWINGS, THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE.</li> <li>CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PAINTED 1–COAT PRIMER AND 2–COATS OF HOT BITUMEN.</li> <li>DESIGN CODE IS ACI 318–08.</li> <li>STEEL BARS PROVIDED BY CONTRACTOR (G420) Fy=420 MPa.</li> <li>CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH Fcu AS: –FOR R.C. COLUMNS &amp; WALLS =35 MPa</li> <li>FOR R.C. COLUMNS &amp; WALLS =35 MPa</li> <li>FOR R.C. LINTELS =25 MPa</li> <li>FOR PLAIN CONCRET =20 MPa</li> <li>STEEL COVERS: –FOR FOOTINGS (CAST AGAINST SOIL) =7.5 cm (FOR PROTECTED CONCRETE) =5.0 cm</li> <li>FOR WALLS = 5.0 cm</li> <li>FOR WALLS =2.5 cm</li> </ul>
	<ul> <li>MIN. LAP FOR STEEL BAR = 60cm OR 50 x DIA. BAR WHICH IS GREATER.</li> <li>T.L. : TOTAL LENGTH.</li> <li>FOUNDATIONS &amp; COLUMNS ARE DESIGNED FOR UNDERGROUND, GROUND, &amp; 3 STORIES.</li> <li>SOIL BEARING CAPACITY IS: 200 KN/m<sup>2</sup>.</li> </ul>
G. BEAM	CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) EMPLOYER:
OUND.	THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE UN PALESTINIAN PEOPLE (UNDP/PAPP) PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO
	RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06)
	CONSULTANT: صكرة الشعبة والتخطيط center for engineering and planning
	BUILDING NAME: RESIDENTIAL BUILDING NO. (A6)
	DRAWING TITLE: COLUMNS DETAILS (4/4)
TAILS (3/3) CALE: AS SHOWN	DRAWING NO.:RE-S-010DATE:APRIL2011SCALE:ASSHOWN

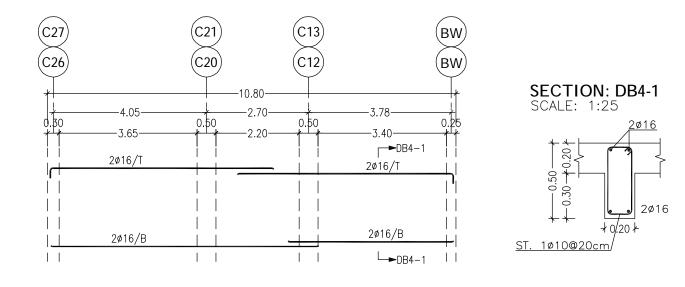


<ul> <li>IT IS THE CONTRACTOR RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWINGS FOR ENGINEER BEFORE START WORKS.</li> <li>ALL OF THE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUCTION WITH THE PERTINENT ARCHITECTURAL, CIVIL DEFENSE AND OTHER STRUCTURAL DRAWINGS</li> <li>IF THERE IS ANY DISCREPANCY IN DRAWINGS, THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE.</li> <li>CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PAINTED 1–COAT PRIMER AND 2–COATS OF HOT BITUMEN.</li> <li>DESIGN CODE IS ACI 318–08.</li> <li>STEEL BARS PROVIDED BY CONTRACTOR (G420) Fy=420 MPa.</li> <li>CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH Fcu AS: -FOR R.C. COLUMNS &amp; WALLS =35 MPa -FOR R.C. GOTINGS =30 MPa -FOR R.C. FOOTINGS =30 MPa -FOR R.C. LINTELS =25 MPa -FOR R.C. LINTELS =25 MPa -FOR PLAIN CONCRET =20 MPa</li> <li>STEEL COVERS: -FOR FOOOTINGS (CAST AGAINST SOIL) =7.5 cm (FOR POTECTED CONCRETE) =5.0 cm -FOR WALLS =5.0 cm -FOR SLABS =2.5 cm</li> <li>MIN. LAP FOR STEEL BAR = 60cm OR 50 × DIA. BAR WHICH IS GREATER.</li> <li>T.L. : TOTAL LENGTH.</li> <li>FOUNDATIONS &amp; COLUMNS ARE DESIGNED FOR UNDERGROUND, GROUND, &amp; 3 STORIES.</li> <li>SOIL BEARING CAPACITY IS: 200 KN/m<sup>2</sup>.</li> </ul>
<ul> <li>SOIL BEARING CAPACITY IS: 200 KN/m<sup>2</sup>.</li> </ul>
FOR TENDER ONLY
FOR TENDER ONLY
CLIENT:
CLIENT: PALESTINIAN NATIONAL AUTHORITY
CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)
CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE PALESTINIAN PEOPLE
CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE PALESTINIAN PEOPLE UNN PALESTINIAN PEOPLE (UNDP/PAPP) PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP
CLIENT:         PALESTINIAN NATIONAL AUTHORITY         MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)         EMPLOYER:         PROGRAMME OF ASSISTANCE TO THE         PROGRAMME OF ASSISTANCE TO THE         PROJECT TITLE:         CONSTRUCTION OF 100 HOUSING UNITS TO         RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES         IN GAZA STRIP         PROJECT NO.: PAL 10-00070416 (PACKAGE 06)
CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE PROGRAMME OF ASSISTANCE TO THE PALESTINIAN PEOPLE UNDP/PAPP) PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06) CONSULTANT: LL-L-III B ALL-L-III JACA center for engineering and planning
CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE PROJECT TITLE: (UNDP/PAPP) PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06) CONSULTANT: Labertilg a main Jugar Construction center for engineering and planning BUILDING NAME: RESIDENTIAL BUILDING NO. (A6)
CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE PROGRAMME OF ASSISTANCE TO THE PALESTINIAN PEOPLE (UNDP/PAPP) PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06) CONSULTANT: LL-L-III B ALL - III JAPAPA center for engineering and planning
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DATE: APRIL 2011 | SCALE: AS SHOWN





REINF. FOR BEAM NO. (DB4) SCALE: 1:100

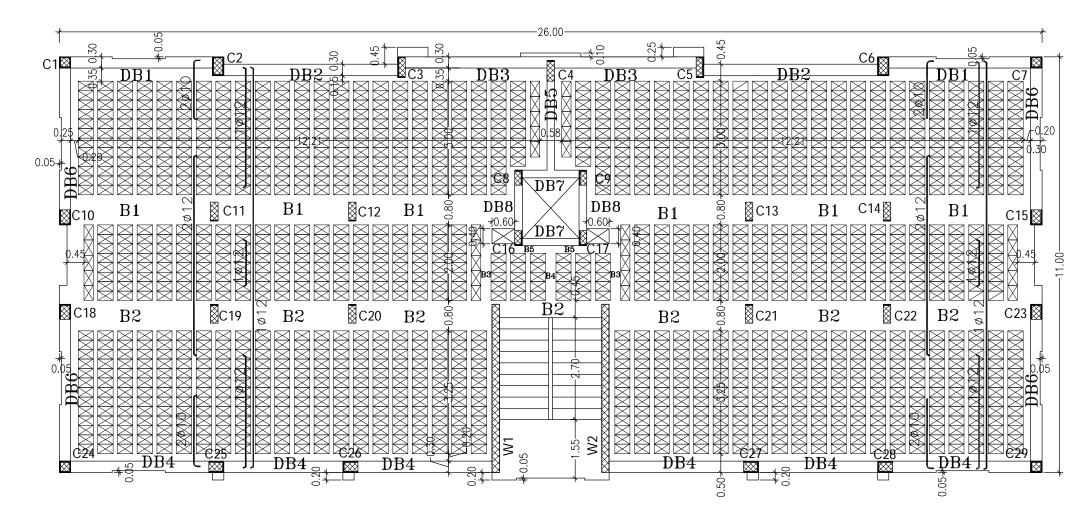
BEAMS	REL	NFORCE	MENT	TABLE
	FOR	GROUND	SLAB	

NO.	DIM		BOTTOM	TOP	STIRRUPS	
	<i>W</i> .	<u>H</u> .	REINF.	REINF.		
DB5	20	50	2ø16	2ø16	1ø10/20cm	
DB6	20	50	2ø16	2ø16	1ø10/20cm	
DB7	20	50	2ø16	2ø16	1ø10/20cm	

BEAMS DETAILS OF BASEMENT SLAB (2/2

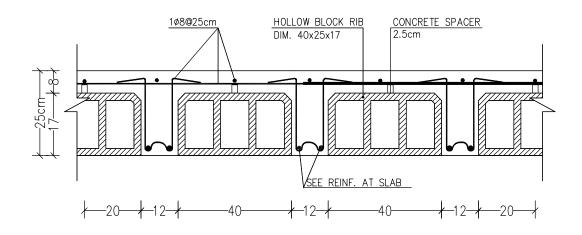
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	SOIL SHALL BE PAINTED 1-COAT PRIMER AND 2-COATS OF HOT BITUMEN.         DESIGN CODE IS ACI 318-08.         STEEL BARS PROVIDED BY CONTRACTOR (G420) Fy=420 MPa.         CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH Fcu AS: -FOR R.C. COLUMNS & WALLS =35 MPa -FOR R.C. SLAB =30 MPa -FOR R.C. FOOTINGS =30 MPa -FOR R.C. LINTELS =25 MPa -FOR PLAIN CONCRET =20 MPa         STEEL COVERS: -FOR FOODINGS
	<ul> <li>FOR FOODINGS (CAST AGAINST SOIL) =7.5 cm (FOR PROTECTED CONCRETE) =5.0 cm</li> <li>FOR COLUMNS AND BEAMS =4.0 cm</li> <li>FOR WALLS =5.0 cm</li> <li>FOR SLABS =2.5 cm</li> <li>MIN. LAP FOR STEEL BAR = 60cm OR 50 x DIA. BAR WHICH IS GREATER.</li> <li>T.L. : TOTAL LENGTH.</li> <li>FOUNDATIONS &amp; COLUMNS ARE DESIGNED FOR UNDERGROUND, GROUND, &amp; 3 STORIES.</li> <li>SOIL BEARING CAPACITY IS: 200 KN/m<sup>2</sup>.</li> </ul>
	FOR TENDER ONLY
	CLIENT: PALESTINIAN NATIONAL AUTHORITY
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2)	CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) EMPLOYER: MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) EMPLOYER: PROGRAMME OF ASSISTANCE TO THE PROGRAMME OF ASSISTANCE TO THE PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06) CONSULTANT: Lybeiting a.u.imligg. center for engineering and planning BUILDING NAME: RESIDENTIAL BUILDING NO. (A6) DRAWING TITLE:



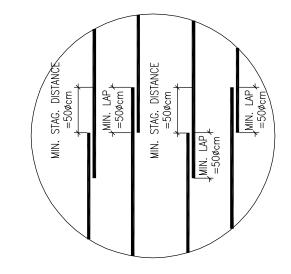


## **REINF. DETAILS FOR TYPICAL SLAB**

SCALE 1:100



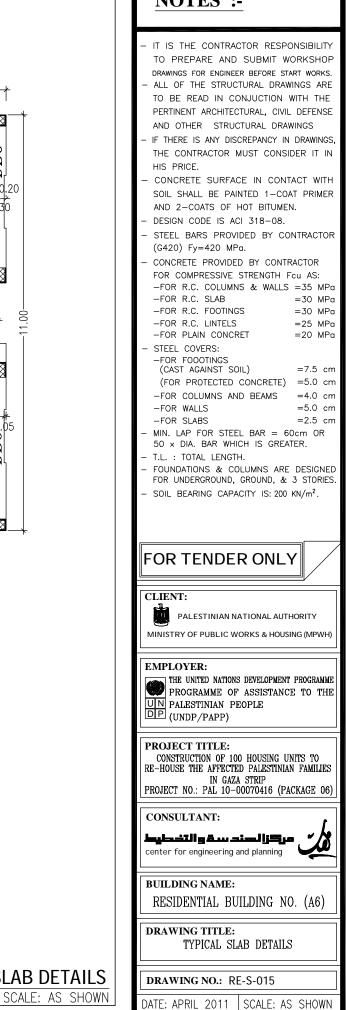
SECTION DETAIL FOR RIBS NOT TO SCALE

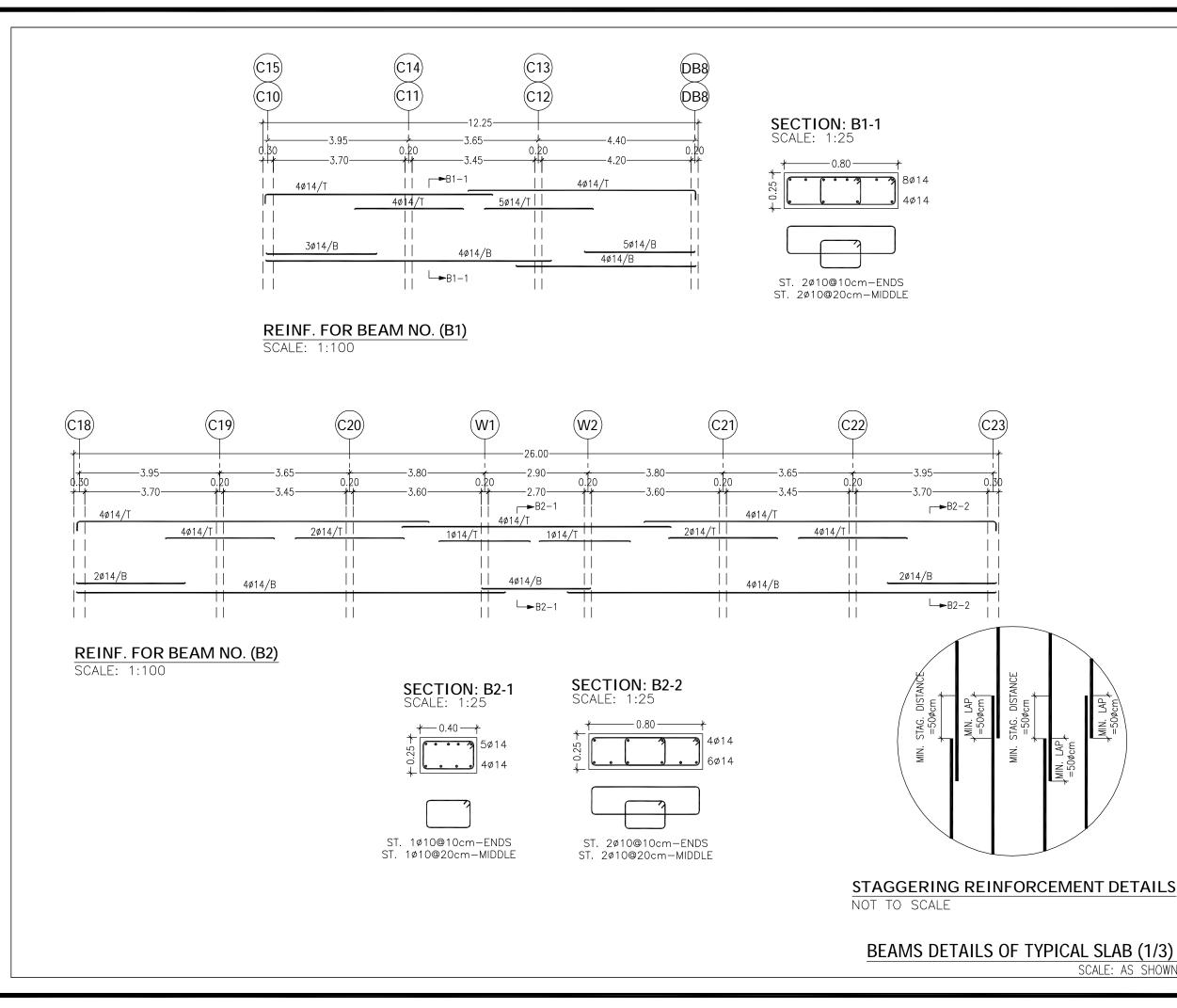


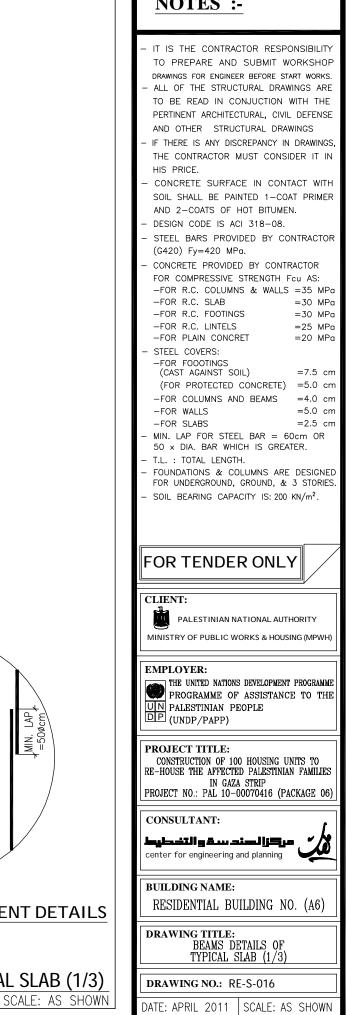
STAGGERING REINFORCEMENT DETAILS NOT TO SCALE

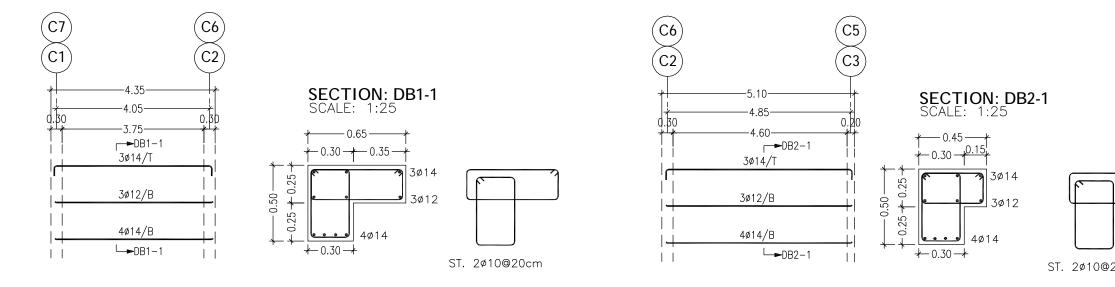
**TYPICAL SLAB DETAILS** 





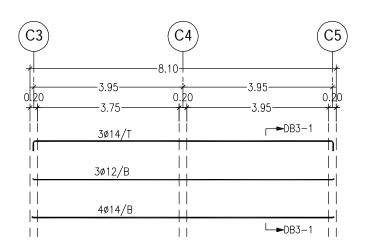


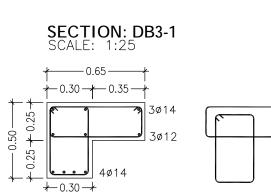




#### **REINF. FOR BEAM NO. (DB1)**

SCALE: 1:100





ST. 2ø10@20cm

SECTION: DB4-1 SCALE: 1:25

3ø14

**y** 3ø12

ST. 2ø10@20cm

4ø14

**∤** 0.50 − **∤** 

+ 0.30 + 0.20 +

*+*−0.30*-+* 

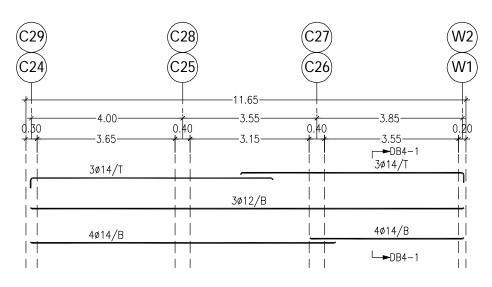
0.25

- 0.50 -- 0.25 + 0

+ +

#### REINF. FOR BEAM NO. (DB3)

SCALE: 1:100



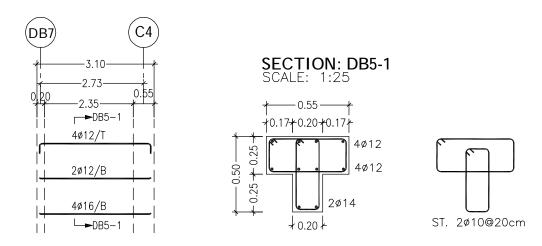
#### REINF. FOR BEAM NO. (DB4)

SCALE: 1:100

### BEAMS DETAILS OF TYPICAL SI

SCAL

20cm	<ul> <li>IT IS THE CONTRACTOR RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWINGS FOR ENGINEER BEFORE START WORKS.</li> <li>ALL OF THE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUCTION WITH THE PERTINENT ARCHITECTURAL, CIVIL DEFENSE AND OTHER STRUCTURAL DRAWINGS</li> <li>IF THERE IS ANY DISCREPANCY IN DRAWINGS, THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE.</li> <li>CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PAINTED 1-COAT PRIMER AND 2-COATS OF HOT BITUMEN.</li> <li>DESIGN CODE IS ACI 318-08.</li> <li>STEEL BARS PROVIDED BY CONTRACTOR (G420) Fy=420 MPa.</li> <li>CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH Fcu AS: -FOR R.C. COLUMNS &amp; WALLS =35 MPa -FOR R.C. SLAB =30 MPa -FOR R.C. SLAB =30 MPa -FOR R.C. SLAB =30 MPa -FOR R.C. LINTELS =25 MPa -FOR R.C. LINTELS =25 MPa -FOR R.C. LINTELS =25 MPa -FOR PLAIN CONCRET =20 MPa</li> <li>STEEL COVERS: -FOR FOODTINGS (CAST AGAINST SOIL) =7.5 cm (FOR PROTECTED CONCRETE) =5.0 cm -FOR COLUMNS AND BEAMS =4.0 cm -FOR WALLS =5.0 cm -FOR SLABS =2.5 cm</li> <li>MIN. LAP FOR STEEL BAR = 60cm OR 50 × DIA. BAR WHICH IS GREATER.</li> <li>T.L. : TOTAL LENGTH.</li> <li>FOUNDATIONS &amp; COLUMNS ARE DESIGNED FOR UNDERGROUND, GROUND, &amp; 3 STORIES.</li> <li>SOIL BEARING CAPACITY IS: 200 KN/m<sup>2</sup>.</li> </ul>
	FOR TENDER ONLY
	EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE UN PALESTINIAN PEOPLE (UNDP/PAPP) PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES
	RE-ROUSE THE AFFECTED FALESTINIAN FAMILIES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06) CONSULTANT: Labor for engineering and planning
	BUILDING NAME: RESIDENTIAL BUILDING NO. (A6) DRAWING TITLE: BEAMS DETAILS OF
LAB (2/3)	TYPICAL SLAB (2/3)
E: AS SHOWN	DRAWING NO.: RE-S-017 DATE: APRIL 2011 SCALE: AS SHOWN
	DATE, AT ME ZUTT JUALE, AS SHUWIN



### REINF. FOR BEAM NO. (DB5)

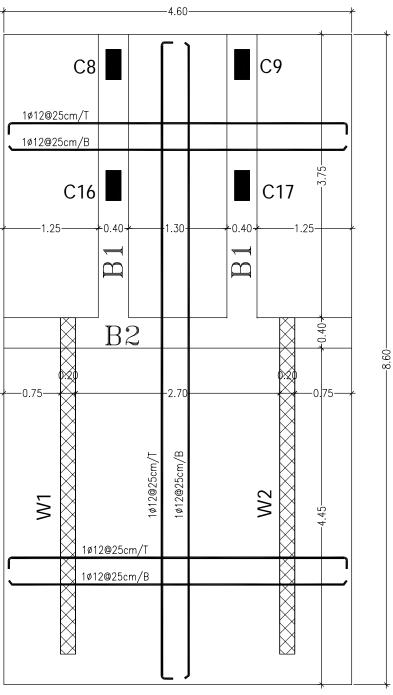
SCALE: 1:100

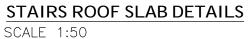
#### BEAMS REINFORCEMENT TABLE FOR TYPICAL SLAB

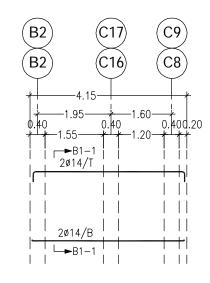
NO.	DIM		воттом	TOP	STIRRUPS	
	<i>W</i> .	Н.	REINF.	REINF.		
DB6	30	50	4ø16	2ø12	1ø10/20cm	
DB7	20	40	2ø14	2ø12	1ø10/20cm	
DB8	20	40	2ø14	2ø12	1ø10/20cm	
<i>B3</i>	25	25	2ø12	2ø12	1ø10/20cm	
B4	25	25	2ø12	2ø12	1ø10/20cm	
B5	20	25	2ø14	2ø12	1ø10/20cm	

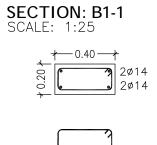
SCALE: AS

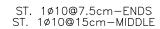
	NULES :-
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	FOR TENDER ONLY
	EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE UN PALESTINIAN PEOPLE DP (UNDP/PAPP)
	PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06)
	CONSULTANT: مرکزالدمند سے والتخطیط center for engineering and planning
	<b>BUILDING NAME:</b> RESIDENTIAL BUILDING NO. (A6)
	DRAWING TITLE: BEAMS DETAILS OF TYPICAL SLAB (3/3)
<u>8 (3/3)</u>	DRAWING NO.: RE-S-018
S SHOWN	DATE: APRIL 2011 SCALE: AS SHOWN





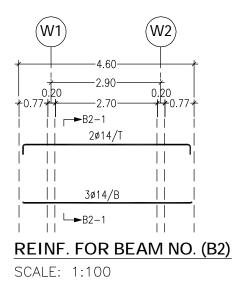




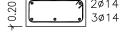


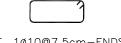
REINF. FOR BEAM NO. (B1)

SCALE: 1:100







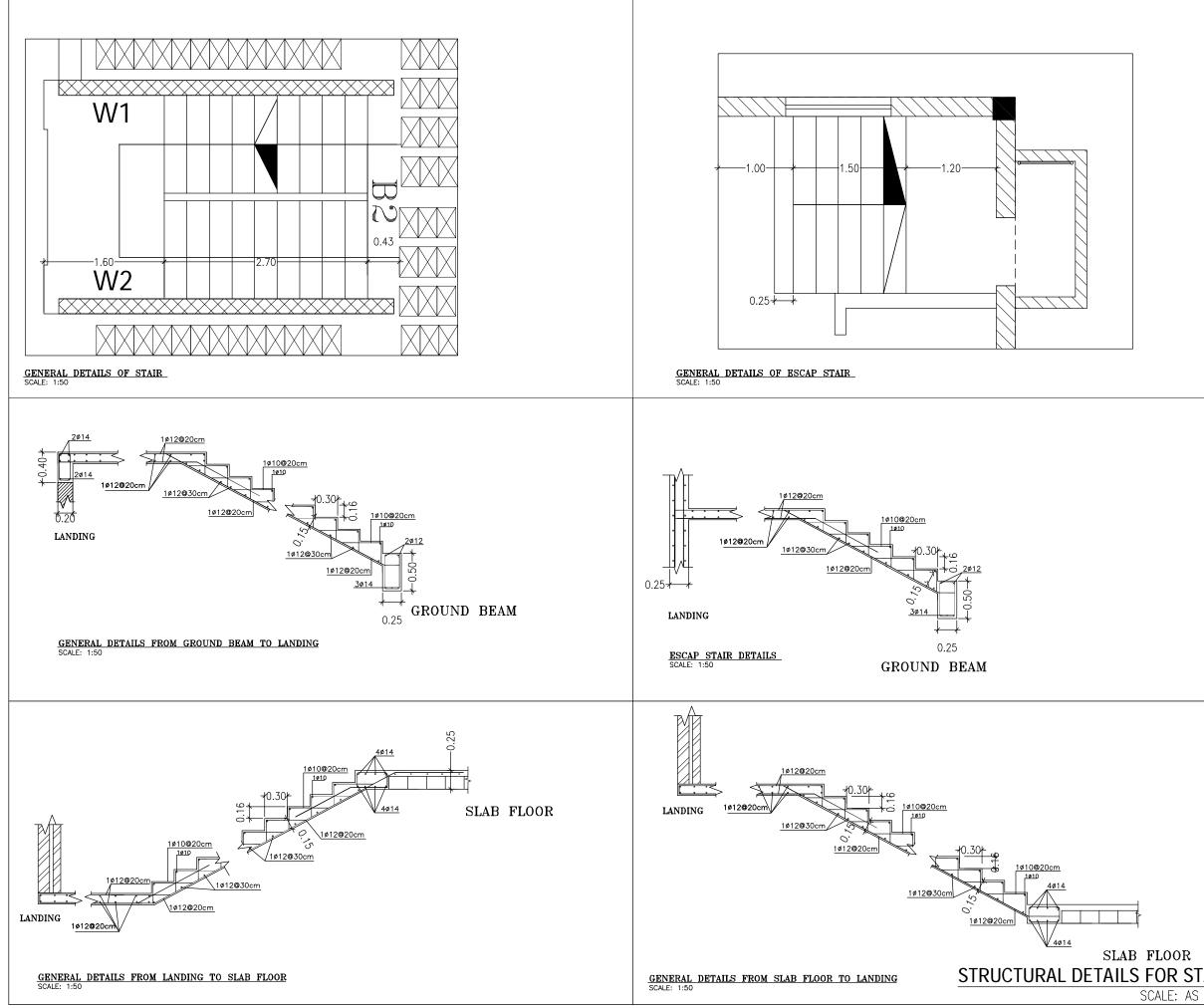


ST. 1ø10@7.5cm-ENDS ST. 1ø10@15cm-MIDDLE



SCALE: AS SHOW

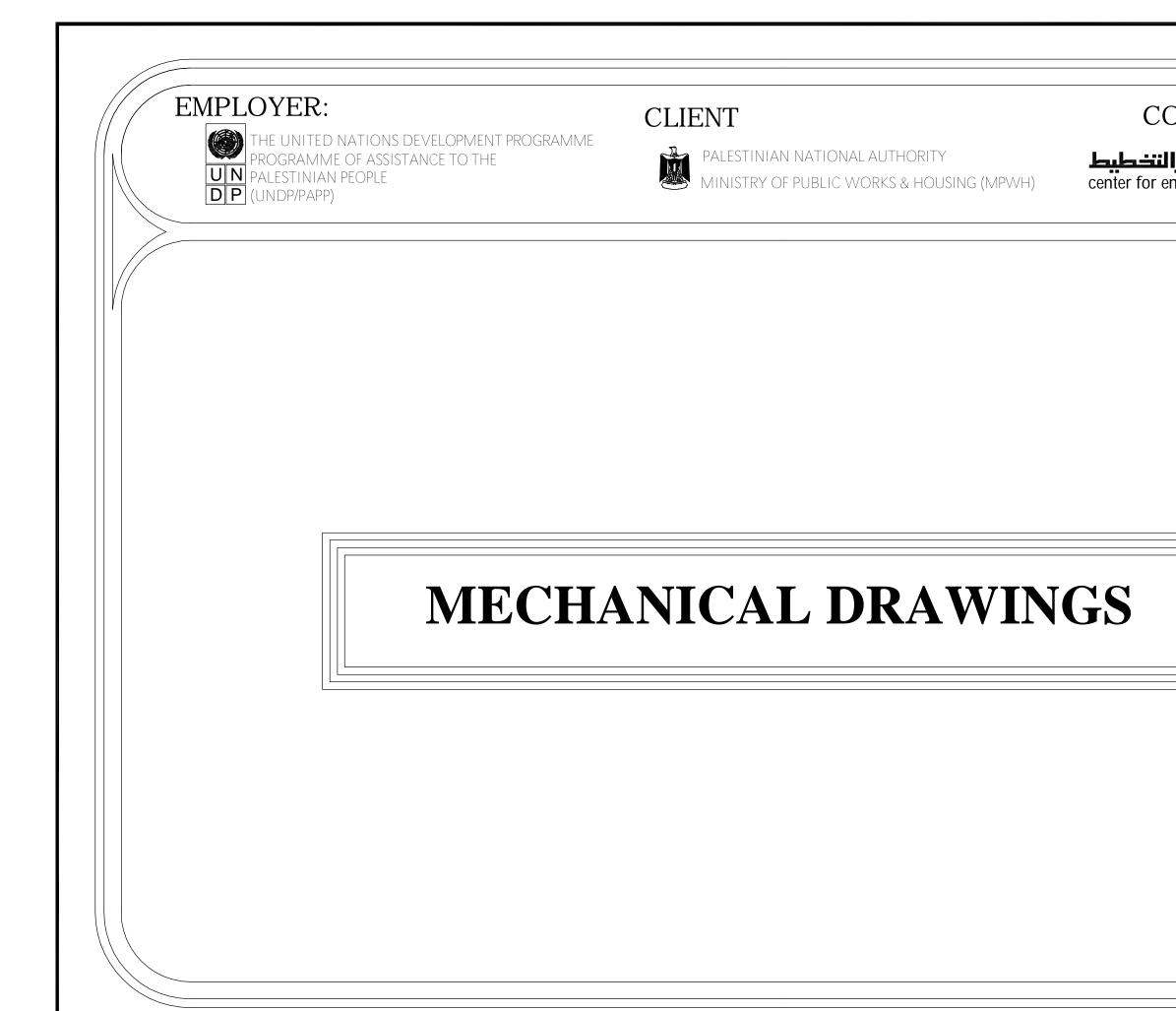
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	-FOR R.C. FOOTINGS= 30 MPa-FOR R.C. LINTELS= 25 MPa-FOR PLAIN CONCRET= 20 MPa
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	-FOR COLUMNS AND BEAMS         =4.0 cm           -FOR WALLS         =5.0 cm           -FOR SLABS         =2.5 cm
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	FOR TENDER ONLY
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	CLIENT: PALESTINIAN NATIONAL AUTHORITY
	CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE PALESTINIAN PEOPLE
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	CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE PROJECT TITLE: (UNDP/PAPP) PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILLES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06) CONSULTANT: Lubuilling mame and planning
<b>D</b>	CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) EMPLOYER: PROGRAMME OF ASSISTANCE TO THE PROGRAMME OF ASSISTANCE TO THE UN PALESTINIAN PEOPLE DP (UNDP/PAPP) PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06) CONSULTANT: LLL-LIB & LID-00070416 (PACKAGE 06) CONSULTANT: LLL-LIB & LID-00070416 (PACKAGE 06) CONSULTANT: LLL-LIB & LID-00070416 (PACKAGE 06) BUILDING NAME: RESIDENTIAL BUILDING NO. (A6)



## NOTES

	<u>NOTES :-</u>
	<ul> <li>IT IS THE CONTRACTOR RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWINGS FOR ENGINEER BEFORE START WORKS.</li> <li>ALL OF THE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUCTION WITH THE PERTINENT ARCHITECTURAL, CIVIL DEFENSE AND OTHER STRUCTURAL DRAWINGS</li> <li>IF THERE IS ANY DISCREPANCY IN DRAWINGS, THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE.</li> <li>CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PAINTED 1–COAT PRIMER AND 2–COATS OF HOT BITUMEN.</li> <li>DESIGN CODE IS ACI 318–08.</li> <li>STEEL BARS PROVIDED BY CONTRACTOR (G420) Fy=420 MPa.</li> <li>CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH Fou AS: -FOR R.C. COLUMNS &amp; WALLS =35 MPa -FOR R.C. SLAB =30 MPa -FOR R.C. SLAB =30 MPa -FOR R.C. LINTELS =25 MPa -FOR R.C. LINTELS =25 MPa -FOR PLAIN CONCRET =20 MPa</li> <li>STEEL COVERS: -FOR FOOOTINGS (CAST AGAINST SOIL) =7.5 cm (FOR PROTECTED CONCRETE) =5.0 cm -FOR SLABS =2.5 cm</li> <li>MIN. LAP FOR STEEL BAR =60cm OR 50 × DIA. BAR WHICH IS GREATER.</li> <li>T.L. : TOTAL LENGTH.</li> <li>FOUNDATIONS &amp; COLUMNS ARE DESIGNED FOR UNDERGOUND, GROUND, &amp; 3 STORIES.</li> <li>SOIL BEARING CAPACITY IS: 200 KN/m<sup>2</sup>.</li> </ul>
	FOR TENDER ONLY  CLIENT:  PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)  EMPLOYER:  THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE PROGRAMME OF ASSISTANCE TO THE UN PALESTINIAN PEOPLE UN PALESTINIAN PEOPLE DP (UNDP/PAPP)  PROJECT TITLE:
	CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06) CONSULTANT: Lubit and a strip center for engineering and planning BUILDING NAME: RESIDENTIAL BUILDING NO. (A6)
	DRAWING TITLE: STRUCTURAL DETAILS FOR STAIRS
AIRS SHOWN	DRAWING NO.: RE-S-020 DATE: APRIL 2011 SCALE: AS SHOWN

SCALE: AS





# EMPLOYER:

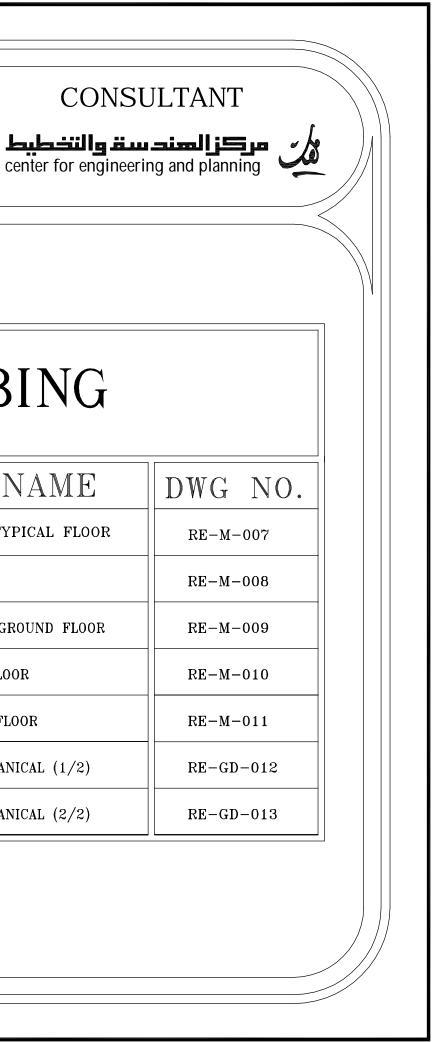


THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE UN PALESTINIAN PEOPLE **DP** (UNDP/PAPP)

# CLIENT



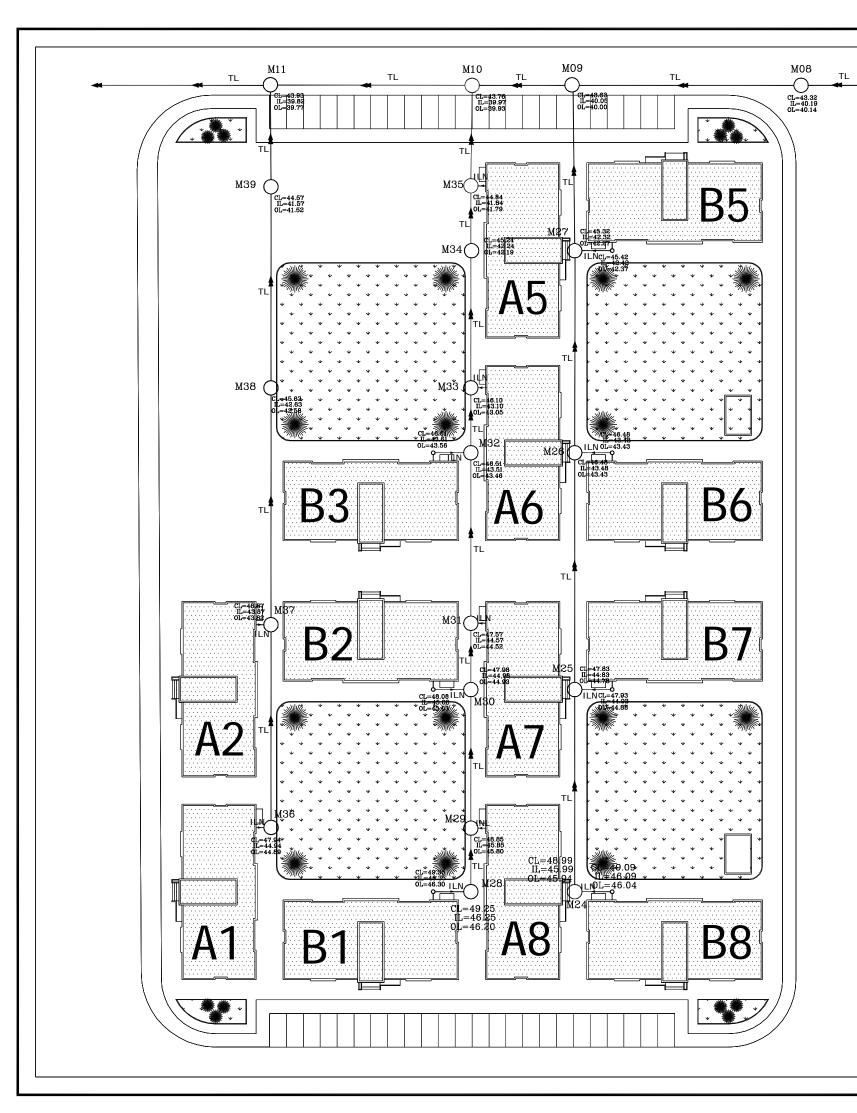
PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSI MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)



# LIST OF DRAWINGS FOR PLUMBING

NO.	DRAWING NAME	DWG NO.
00	SANITARY NETWORK FOR HOUSING UNITS	RE-M-000
01	SEWER PIPE FOR THE BUILDING	RE-M-001
02	WATER NETWORK FOR UNDERGROUND FLOOR	RE-M-002
03	WATER NETWORK FOR GROUND FLOOR	RE-M-003
04	WATER NETWORK FOR TYPICAL FLOOR	RE-M-004
05	SANITARY NETWORK FOR UNDERGROUND FLOOR	RE-M-005
06	SANITARY NETWORK FOR GROUND FLOOR	RE-M-006

NO.	DRAWING NAME
07	SANITARY NETWORK FOR TYPICAL FLOOP
08	RAIN WATER FOR ROOF PLAN
09	WATER NETWORK FOR UNDERGROUND FLOOR
10	WATER NETWORK FORROOF FLOOR
11	WATER NETWORK FOR ROOF FLOOR
12	GENERAL DETAILS FOR MECHANICAL (1/2)
13	GENERAL DETAILS FOR MECHANICAL (2/2)



#### MANHOLES SCHEDULE

IVIAINHULES SCHEDULE					
M.No.	COVER LEVEL	INVERT LEVEL	OUTLET LEVEL	DEPTH (m)	MH.SIZE Ø (cm)
M08	43.32	40.19	40.14	3.13	80
M09	43.63	40.05	40.00	3.58	100
M10	43.76	39.97	39.93	3.79	100
M11	43.93	39.82	39.77	4.11	100
M24	48.99	45.99	45.94	3.00	100
M25	47.83	44.83	44.78	3.00	100
M26	46.48	43.48	43.43	3.00	100
M27	45.32	42.32	42.17	3.00	100
M28	49.25	46.25	46.20	3.00	100
M29	48.85	45.85	45.80	3.00	100
M30	47.98	44.98	44.93	3.00	100
M31	47.57	44.57	44.52	3.00	100
M32	46.51	43.51	43.46	3.00	100
МЗЗ	46.10	43.10	43.05	3.00	100
M34	45.24	42.24	42.19	3.00	100
M35	44.84	41.84	41.79	3.00	100
M36	47.94	44.94	44.89	3.00	100
M37	46.87	43.87	43.82	3.00	100
M38	45.63	42.63	42.58	3.00	100
M39	44.57	41.57	41.52	3.00	100

#### **NOTES** :-

-ALL DIMENSIONS ARE IN CM & M. EXCEPT WHERE OTHERWISE SHOWN OR NOTES -CONTRACTOR SHALL SUBMIT THE MANUFACTURES,

CATALOGS, DIMENSIONS, DETAILS AND CONNECTIONS FOR ALL MECHANICAL WORKS THAT SHOULD BE COMPATIBLE WITH THE SIZE OF BUILDING AND CHAMBERS

-CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL WORKS, STEEL PARTS & CONNECTIONS FOR ENGINEERS APPROVAL

-IF THERE IS ANY DISCREPANCY IN DRAWINGS THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE

- CL: COVER LEVEL
- IL: INVERT LEVEL
- OL: OUT LEVEL
- ILN: INVERT LINE
- TL: TRUNK LINE

### FOR TENDER ONLY

#### CLIENT:

PALESTINIAN NATIONAL AUTHORITY

MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)

EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE UN PALESTINIAN PEOPLE DP (UNDP/PAPP)

PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06)

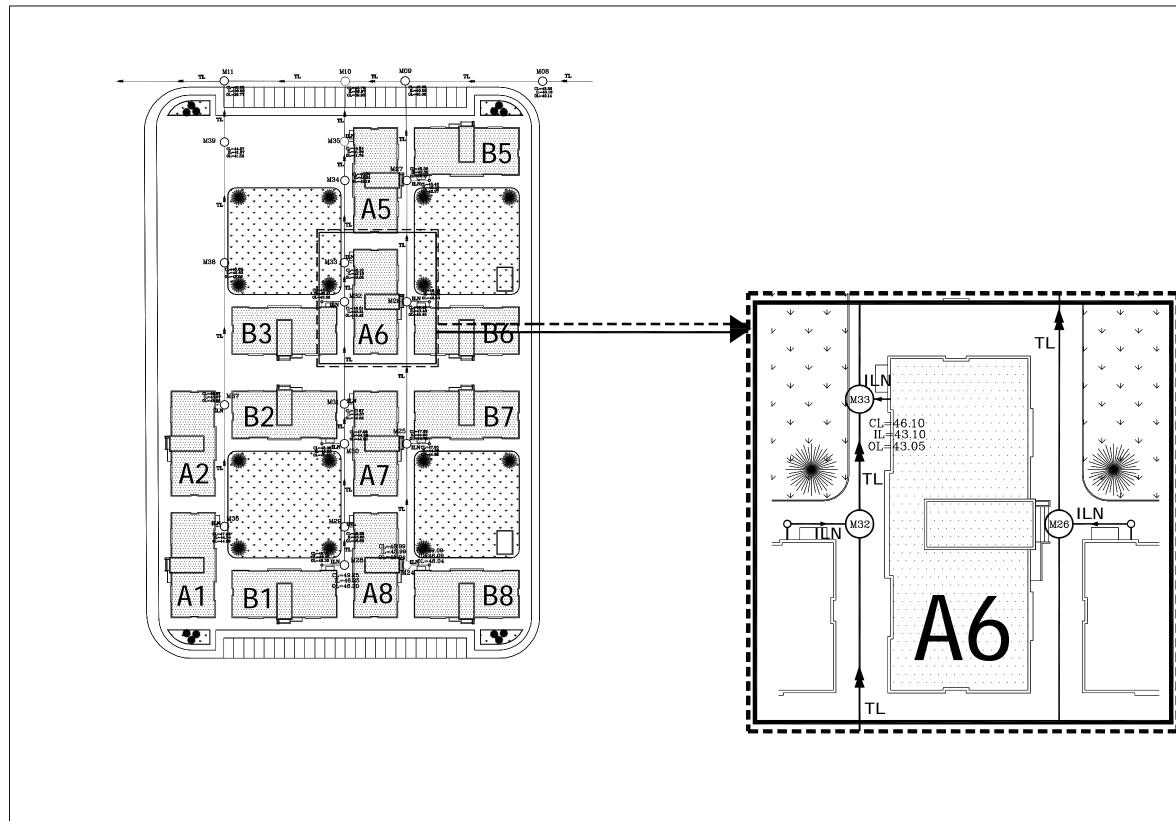
CONSULTANT: مرکز لحیند سے والتخطیط center for engineering and planning

BUILDING NAME: RESIDENTIAL BUILDING NO. (A6)

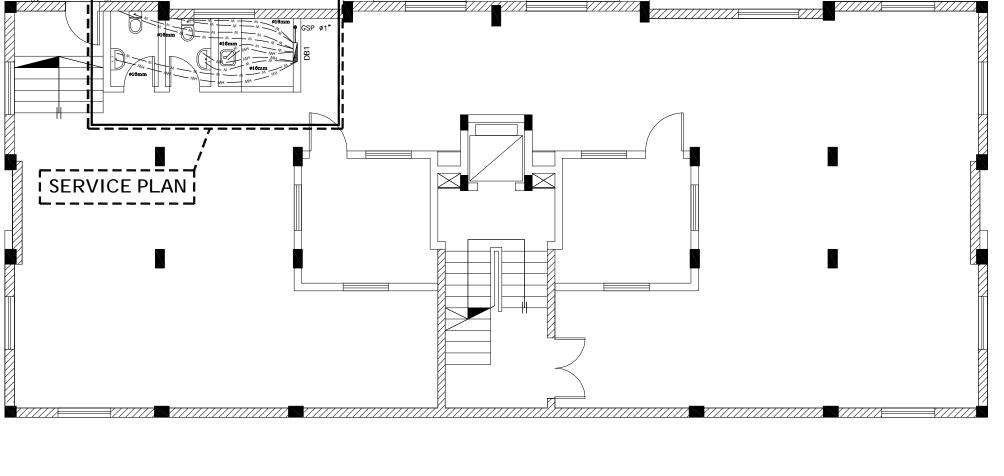
DRAWING TITLE: SANITARY NETWORK FOR SITE LAYOUT FLOOR

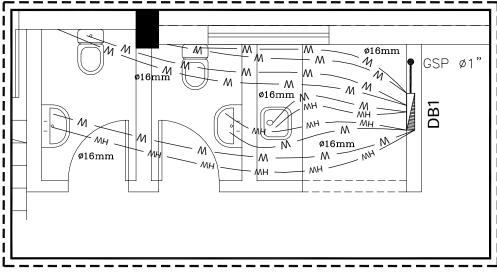
DRAWING NO.: RE-M-000

DATE: APRIL 2011 SCALE: NOT TO SCALE



	<u>NOTES :-</u>
	<ul> <li>ALL DIMENSIONS ARE IN CM &amp; M. EXCEPT WHERE OTHERWISE SHOWN OR NOTES</li> <li>CONTRACTOR SHALL SUBMIT THE MANUFACTURES, CATALOGS, DIMENSIONS, DETAILS AND CONNECTIONS FOR ALL MECHANICAL WORKS THAT SHOULD BE COMPATIBLE WITH THE SIZE OF BUILDING AND CHAMBERS</li> <li>CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL WORKS, STEEL PARTS &amp; CONNECTIONS FOR ENGINEERS APPROVAL</li> <li>IF THERE IS ANY DISCREPANCY IN DRAWINGS THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE</li> </ul>
	LEGEND
	Sewer Pipe on Profile
	Sewer Pipe on Plan
	Existing Level
	Design Level
	Sewer Manhole On Plan 🛛 💿
	Manhole Number M30
	Sewer Manhole On Profile
8	House
	Mosque
	School
	TREE
0     0	Grass
	FOR TENDER ONLY
	CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)
	EMPLOYER: THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE PALESTINIAN PEOPLE UNDP/PAPP)
	PROJECT TITLE: CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06)
	CONSULTANT:
	BUILDING NAME: RESIDENTIAL BUILDING NO. (A6)
	DRAWING TITLE: PLAN & PROFILE FOE SEWER PIPELINE
	DRAWING NO.: RE-M-001
	DATE: APRIL 2011 SCALE:

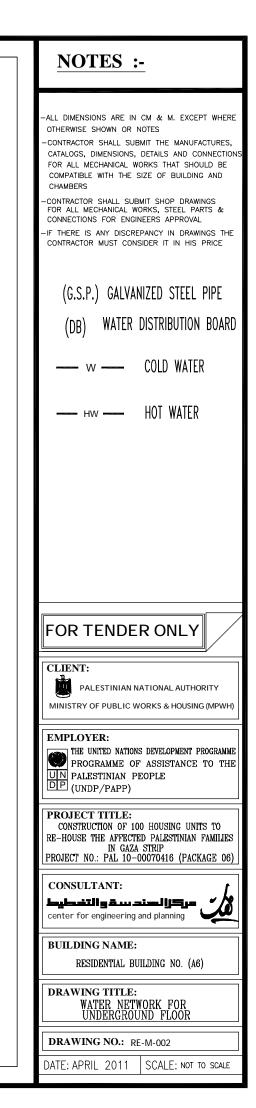


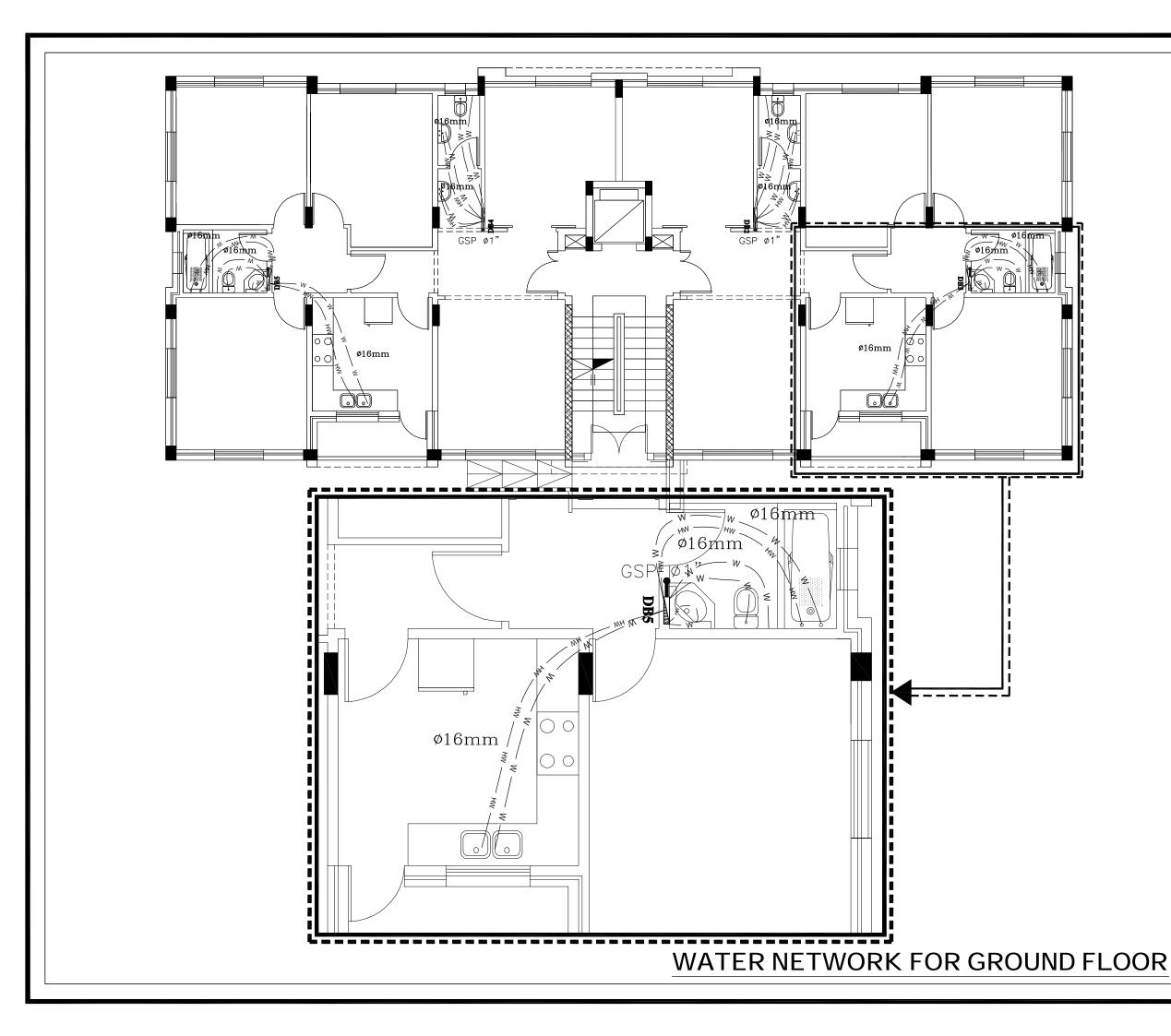


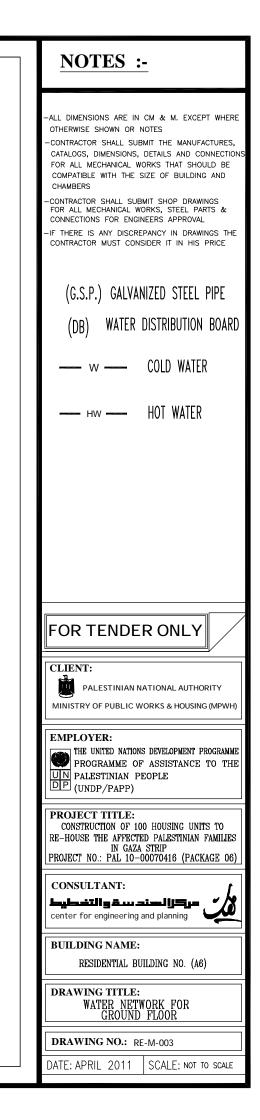
WATER NETWORK FOR SERVICE PLAN

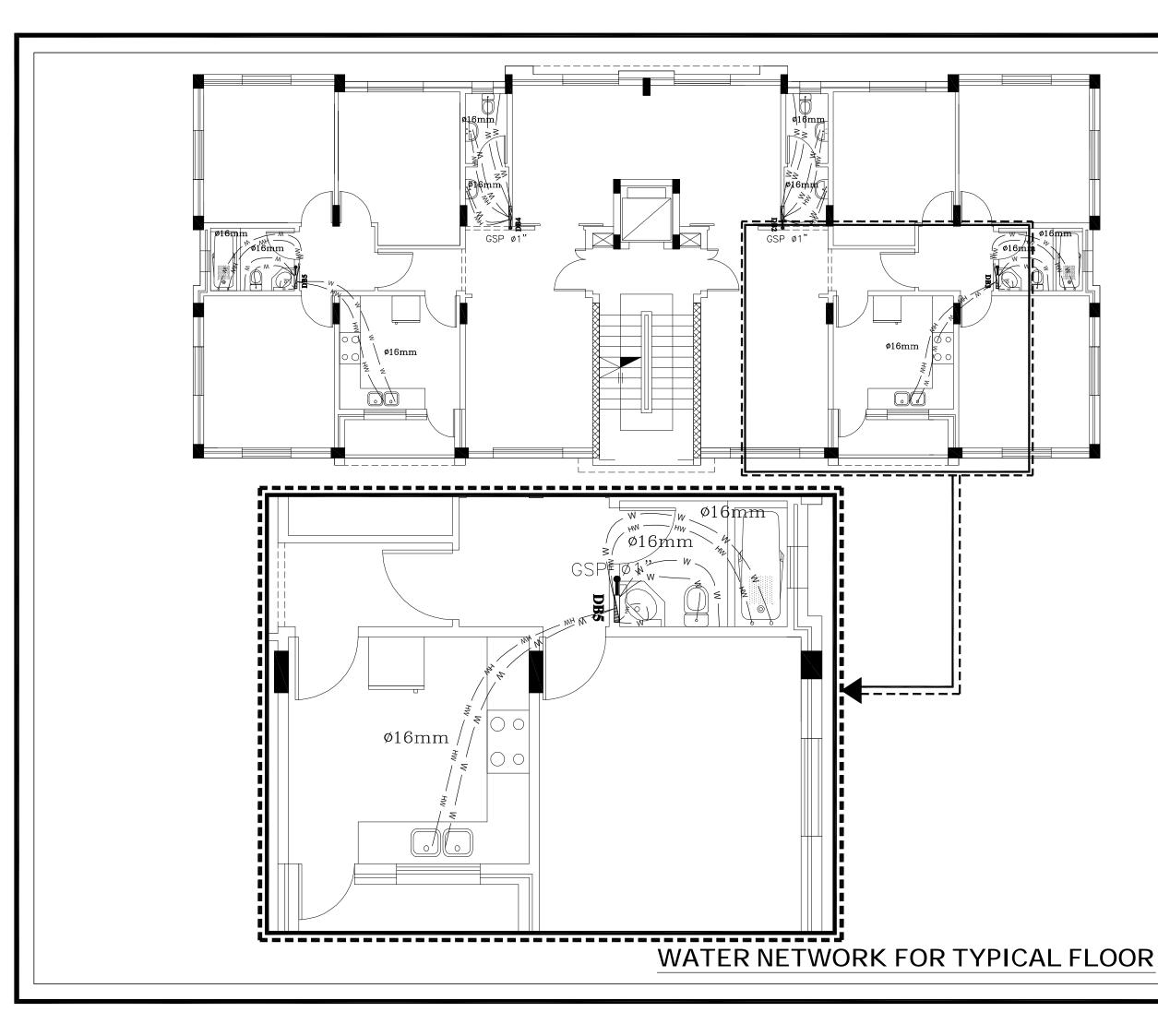
SCALE 1:50



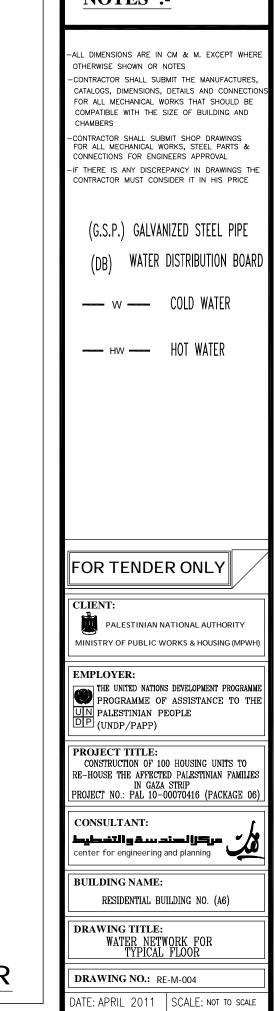


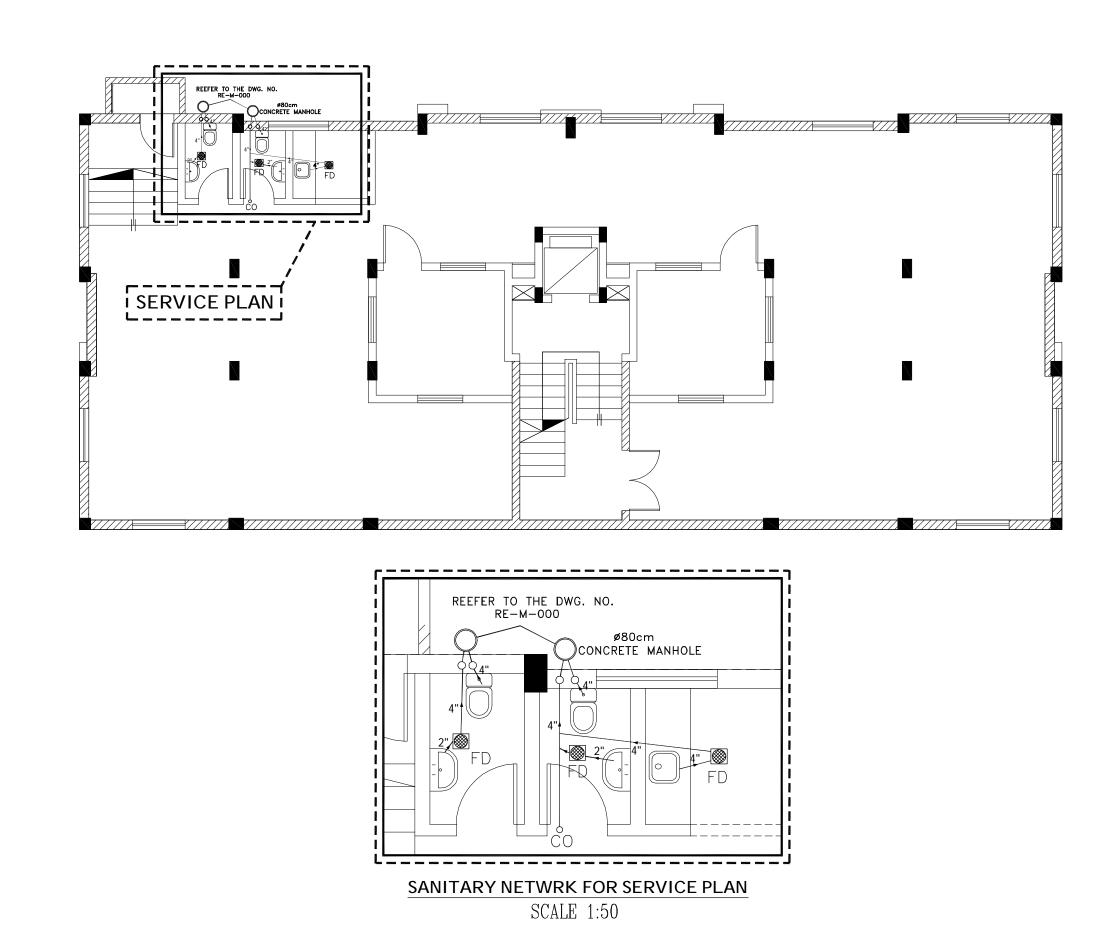




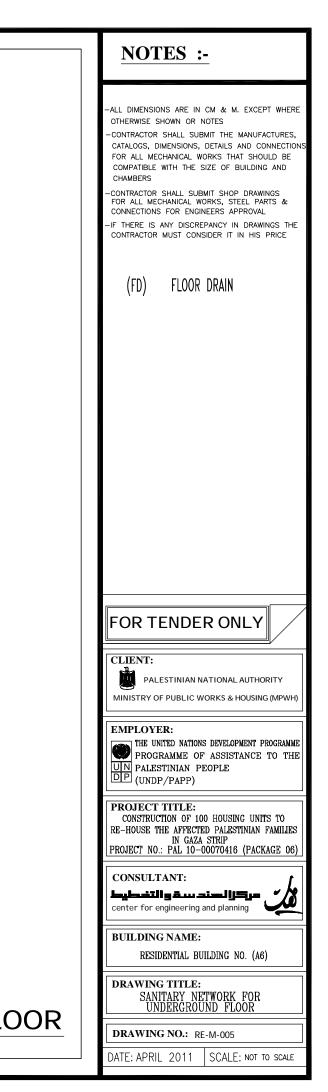


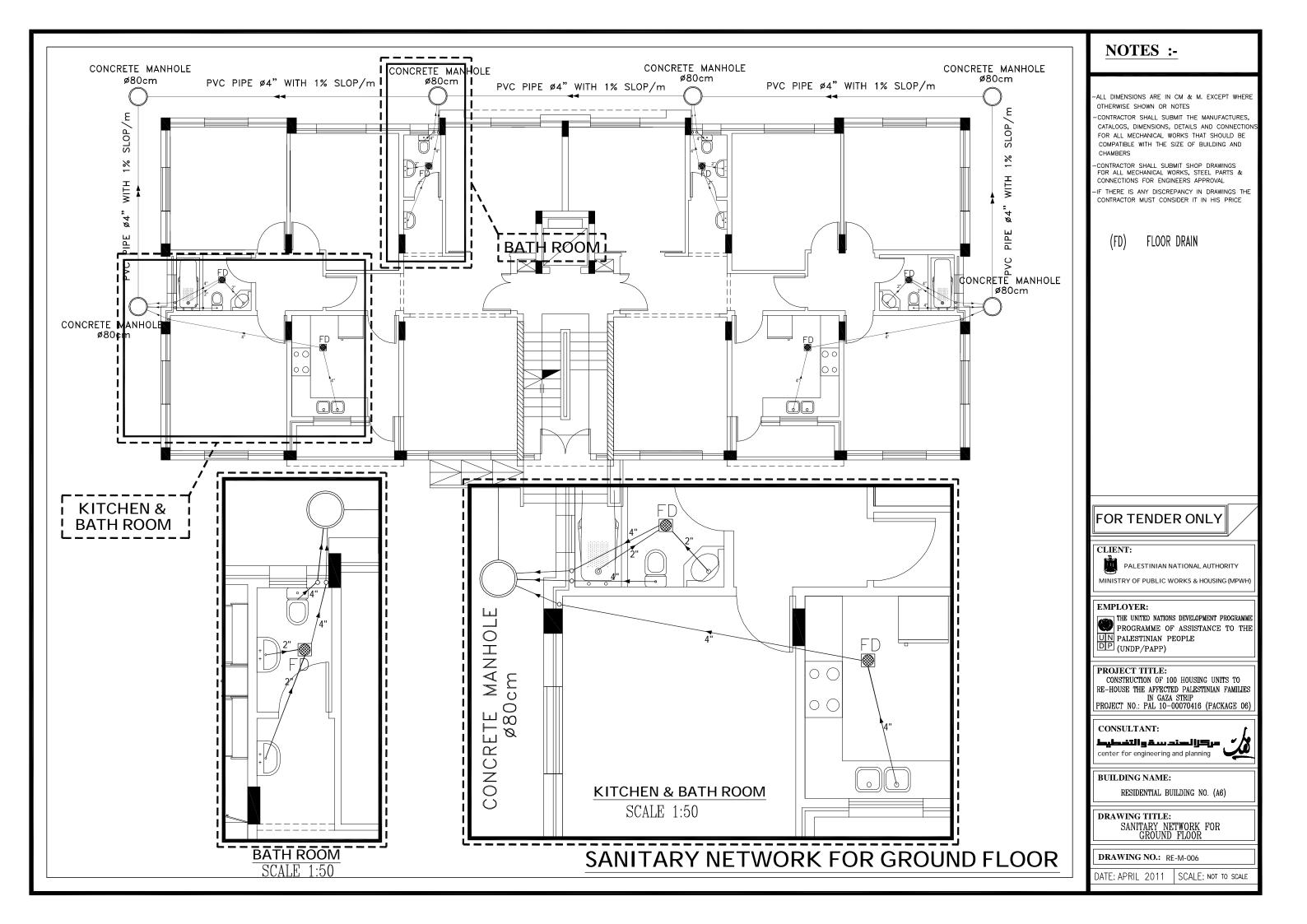


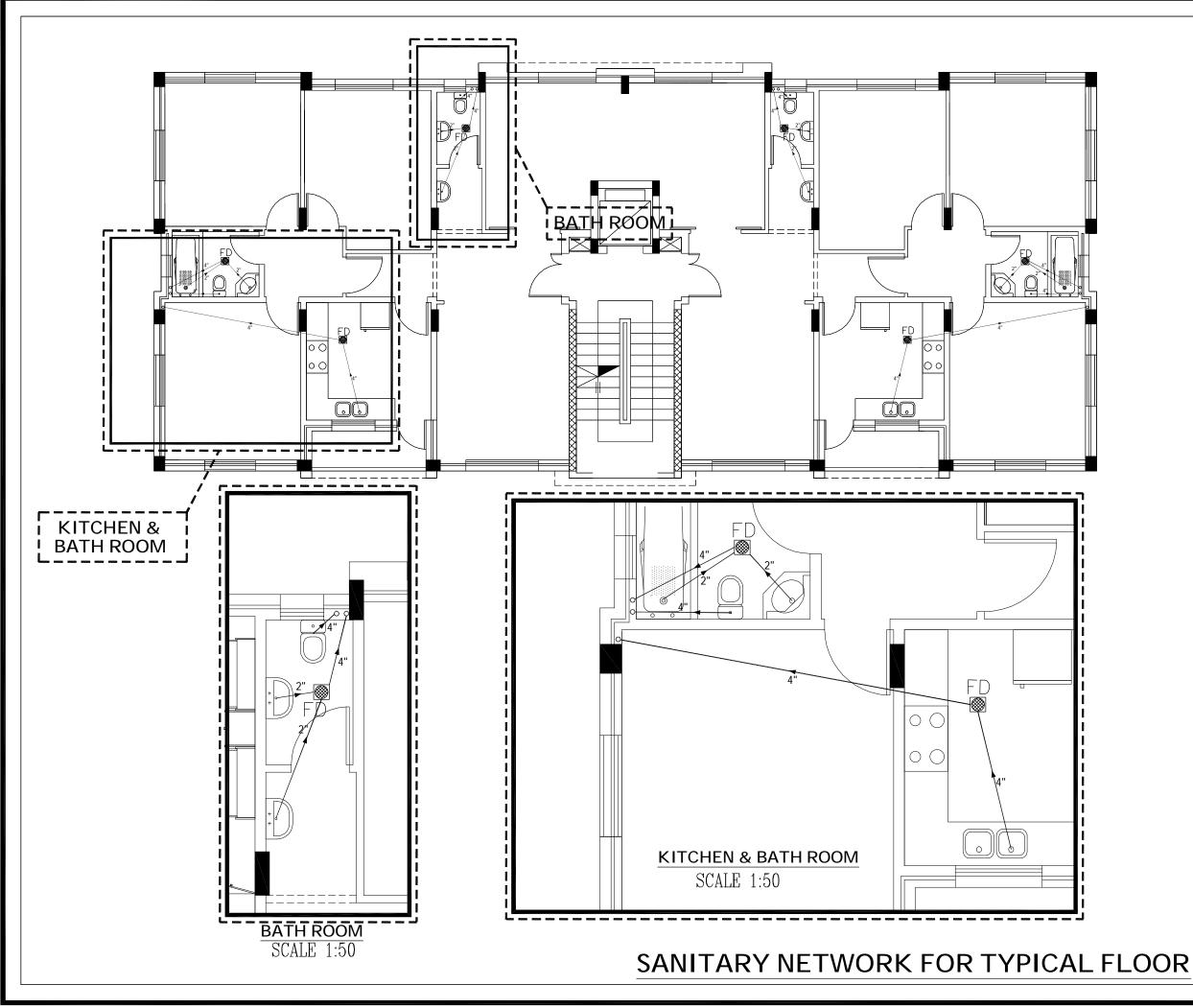


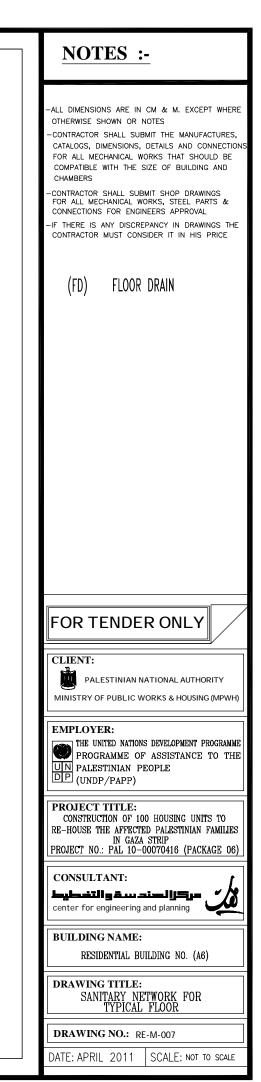


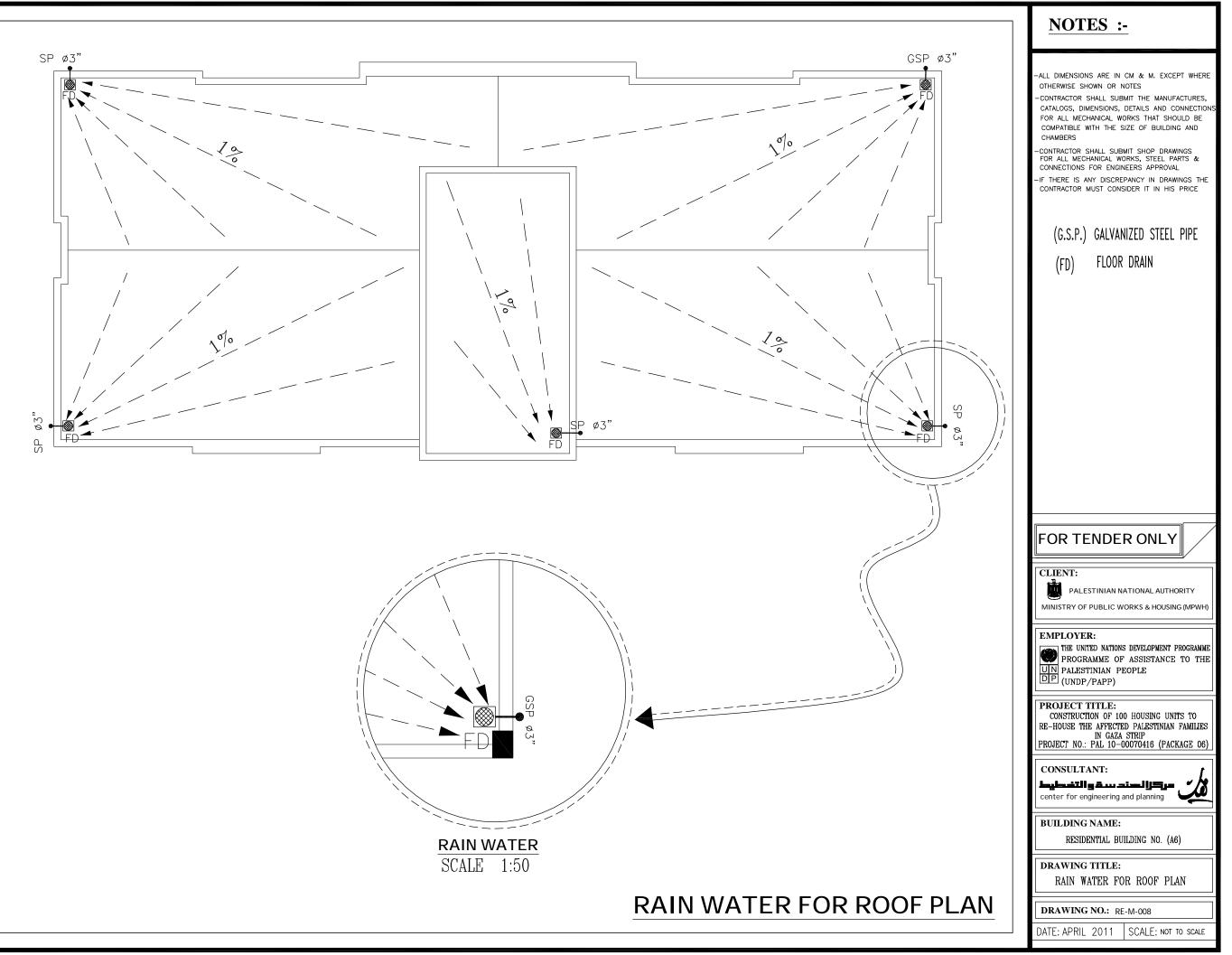
## SANITARY NETWORK FOR UNDERGROUND FLOOR

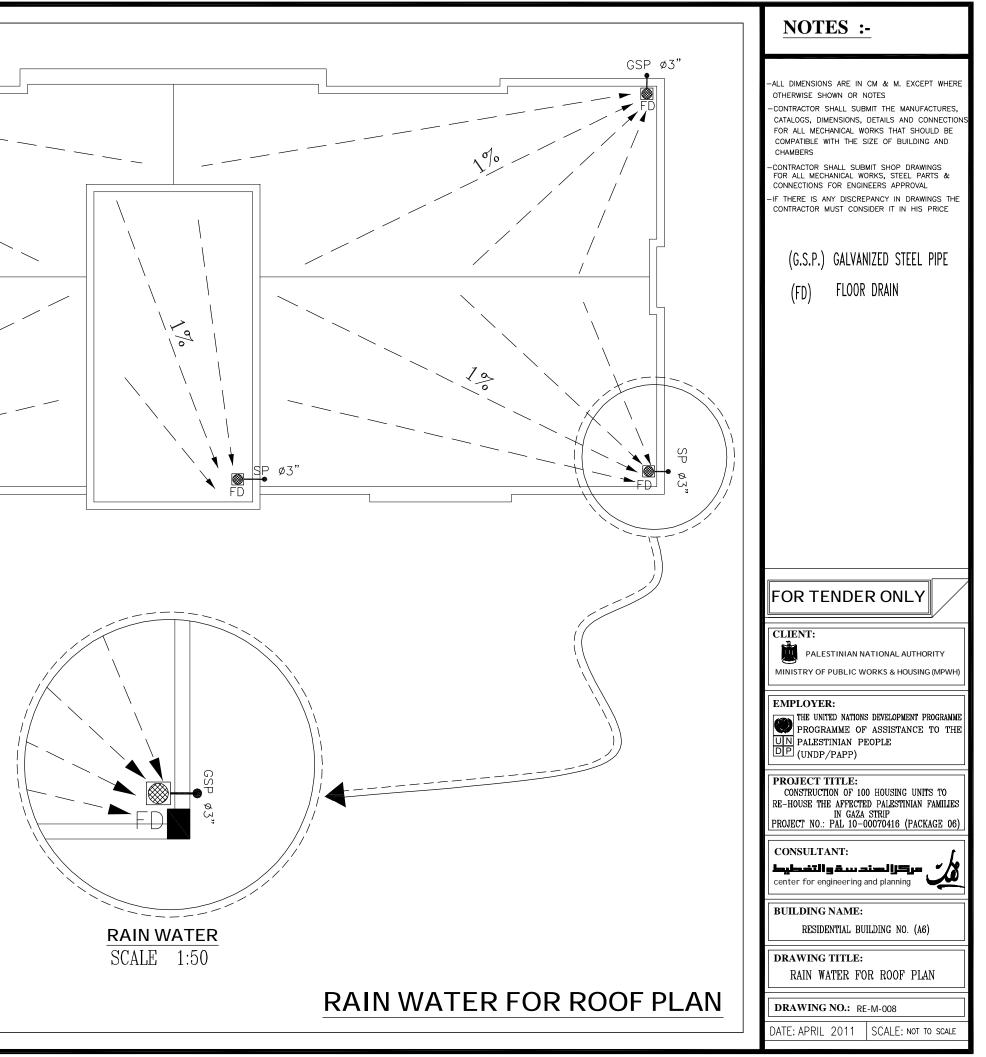


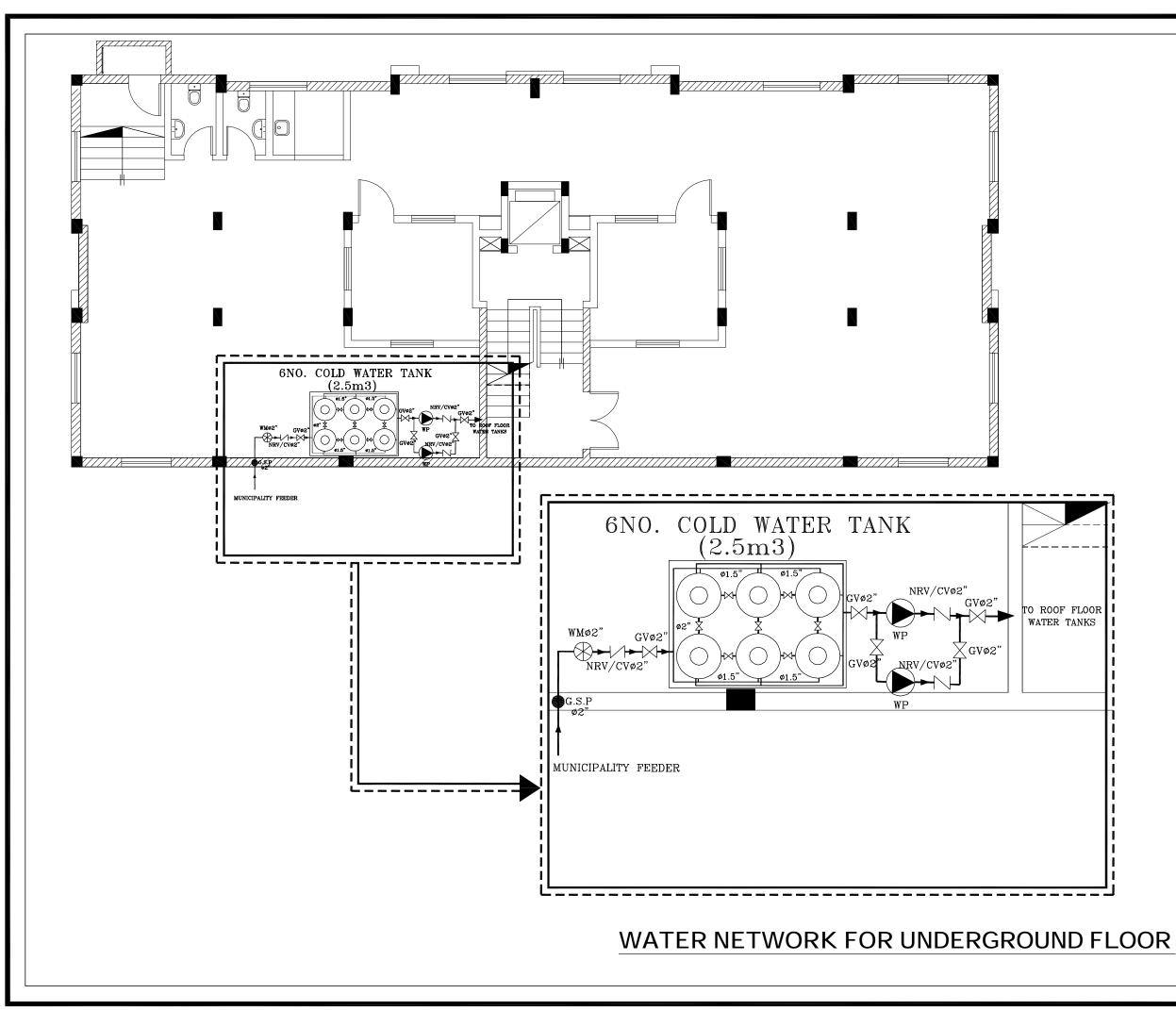




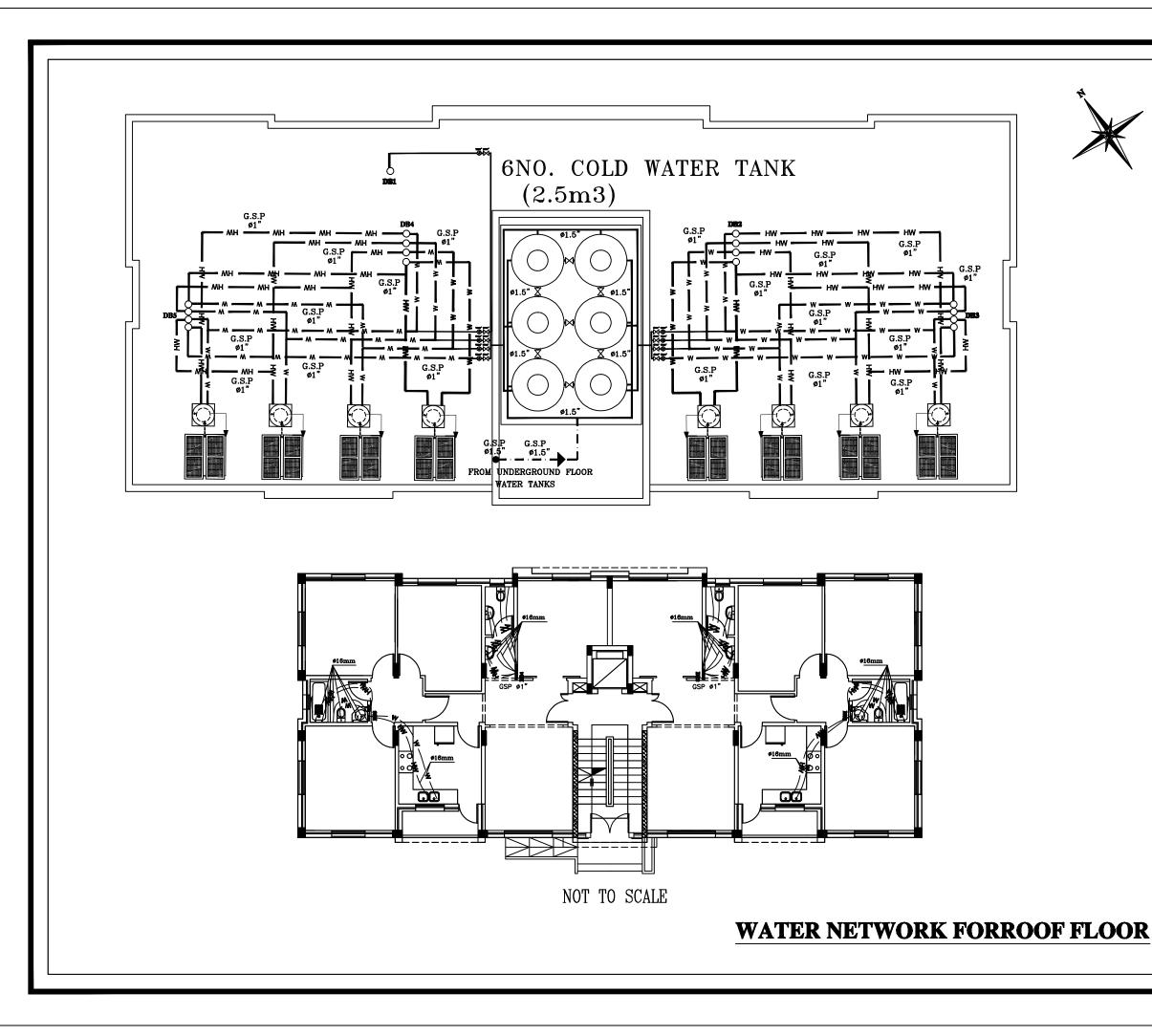


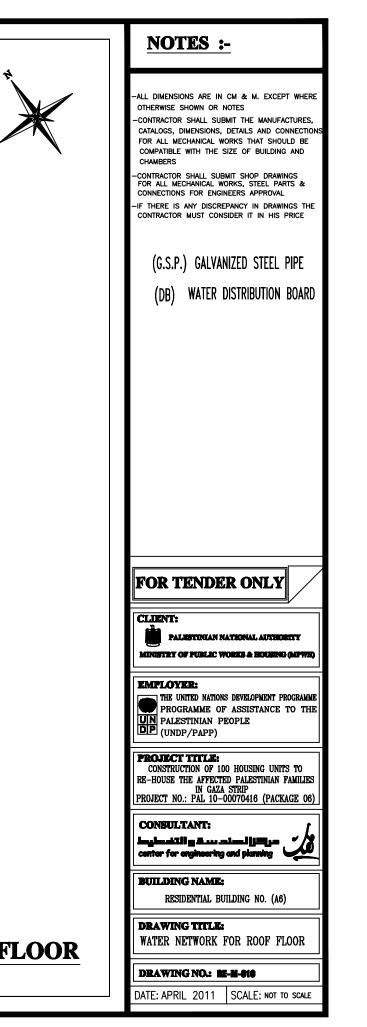


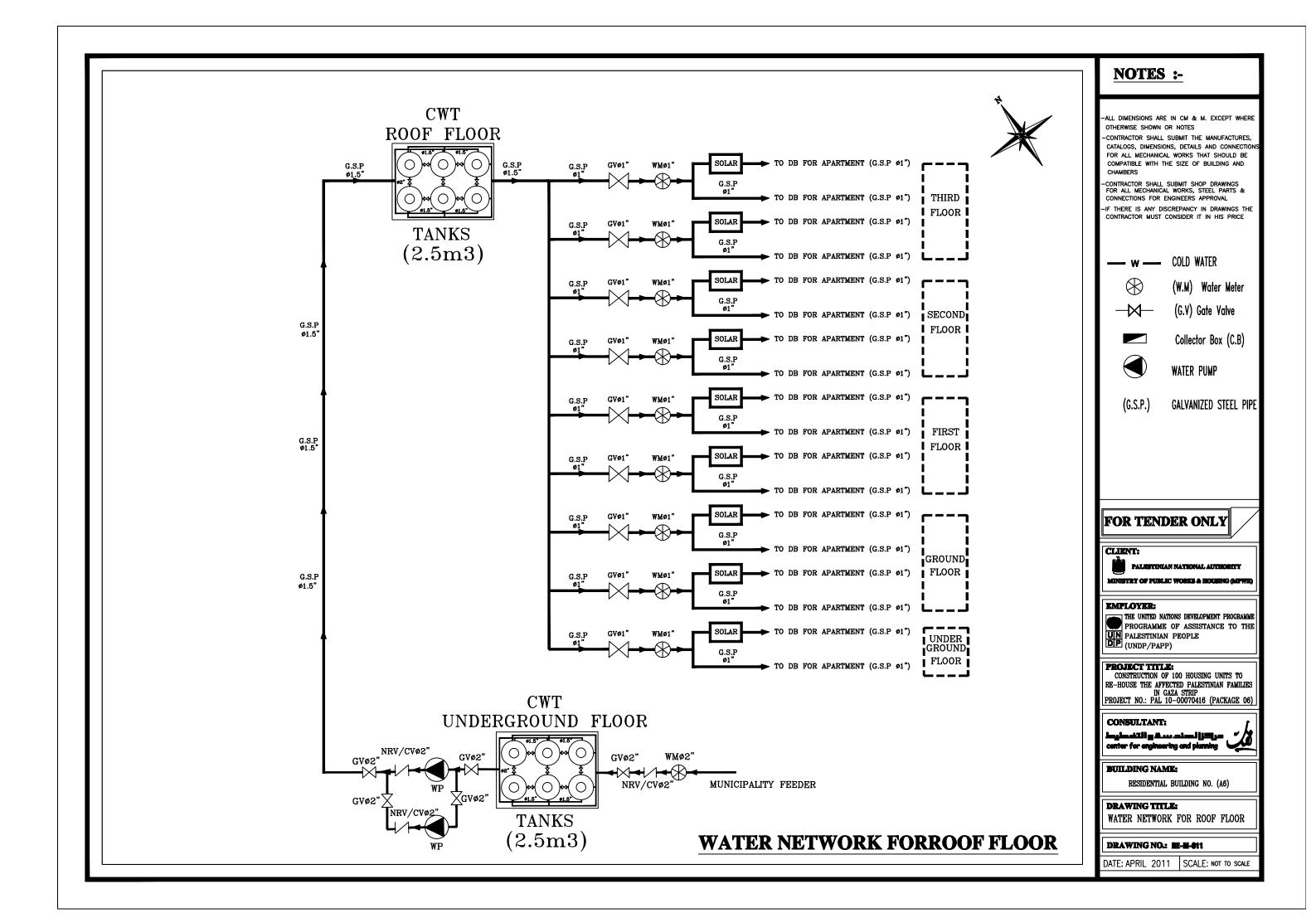


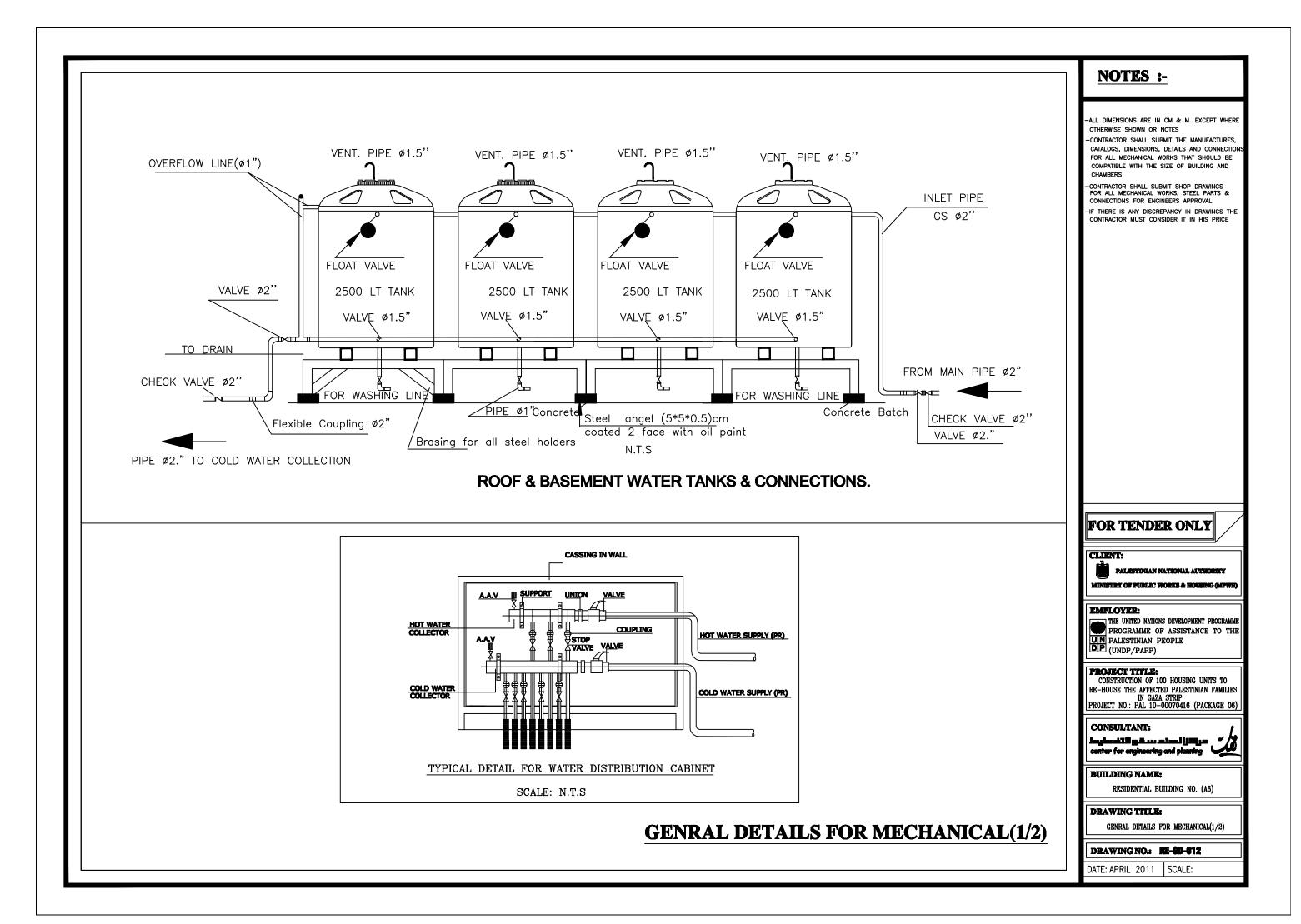


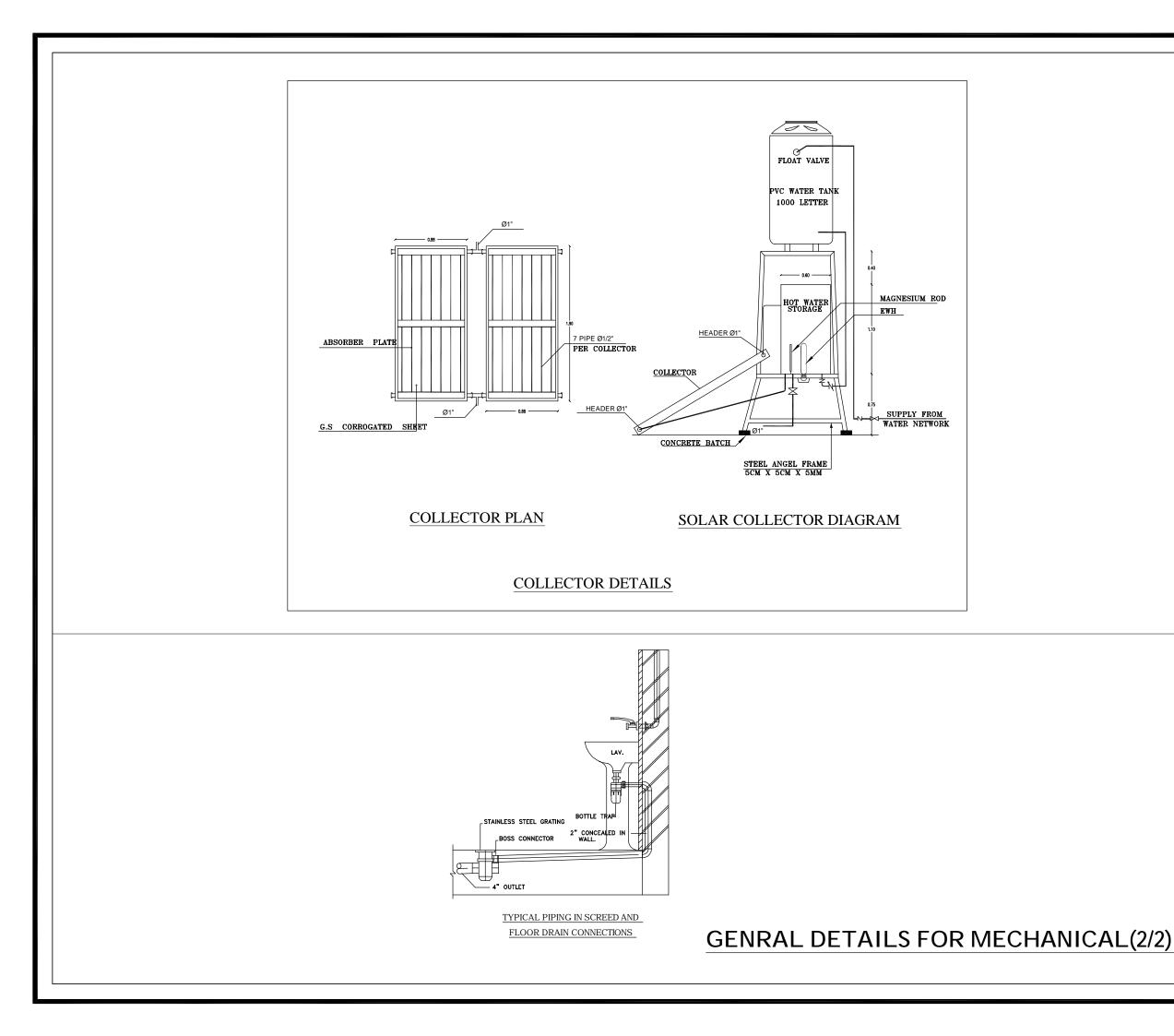
NOTES :-ALL DIMENSIONS ARE IN CM & M. EXCEPT WHERE OTHERWISE SHOWN OR NOTES CONTRACTOR SHALL SUBMIT THE MANUFACTURES, CATALOGS, DIMENSIONS, DETAILS AND CONNECTION FOR ALL MECHANICAL WORKS THAT SHOULD BE COMPATIBLE WITH THE SIZE OF BUILDING AND CHAMBERS -CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL WORKS, STEEL PARTS & CONNECTIONS FOR ENGINEERS APPROVAL IF THERE IS ANY DISCREPANCY IN DRAWINGS THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE — w — COLD WATER  $\bigotimes$ (W.M) Water Meter -(G.V) Gate Valve Collector Box (C.B) WATER PUMP (G.S.P.) GALVANIZED STEEL PIPE FOR TENDER ONLY CLIENT: PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSING (MPWH) **EMPLOYER:** THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE UN PALESTINIAN PEOPLE DP (UNDP/PAPP) **PROJECT TITLE:** CONSTRUCTION OF 100 HOUSING UNITS TO RE-HOUSE THE AFFECTED PALESTINIAN FAMILIES IN GAZA STRIP PROJECT NO.: PAL 10-00070416 (PACKAGE 06) CONSULTANT: ٍ مركرًا لصند سق و التخطيط فلي center for engineering and planning BUILDING NAME: RESIDENTIAL BUILDING NO. (A6) DRAWING TITLE: WATER NETWORK FOR UNDERGROUND FLOOR DRAWING NO.: RE-M-009 DATE: APRIL 2011 | SCALE: NOT TO SCALE

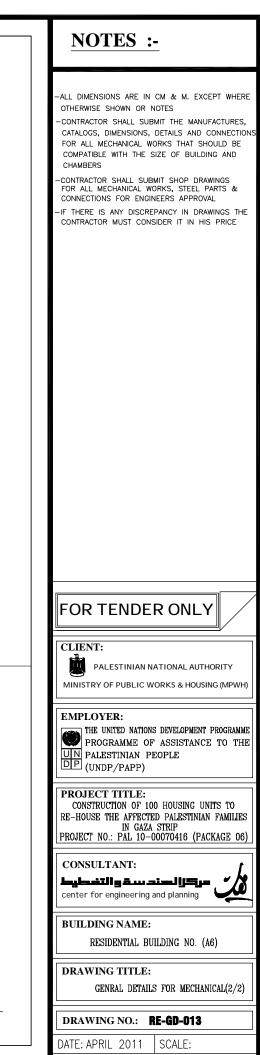


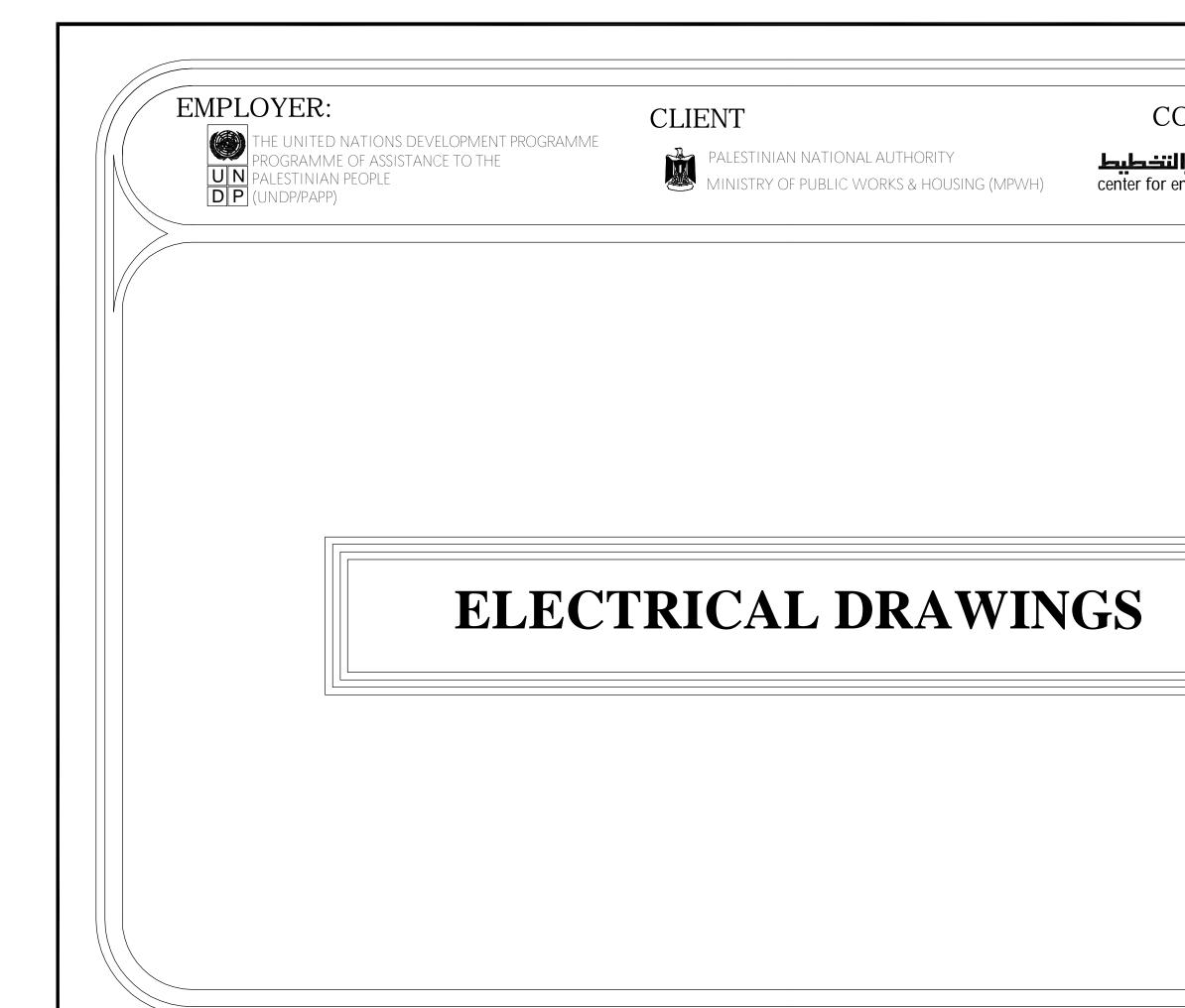
















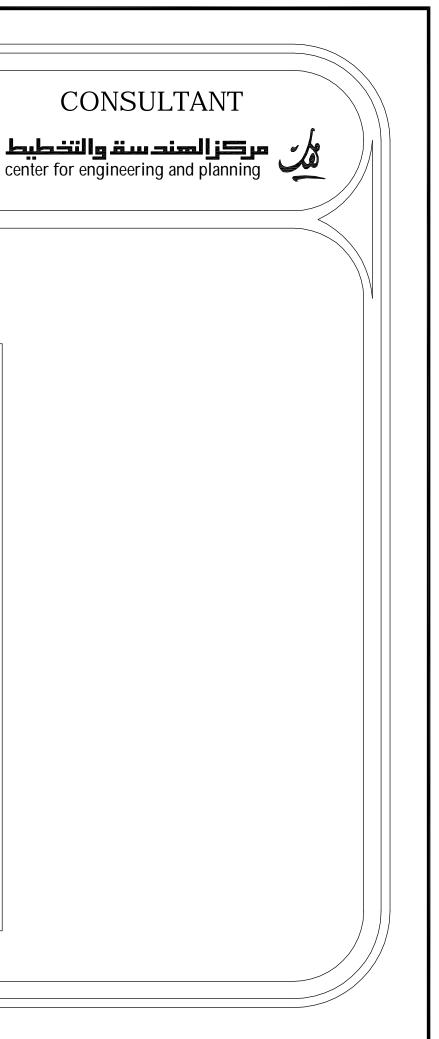


THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE PALESTINIAN PEOPLE DP (UNDP/PAPP)

## CLIENT



PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSI MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)

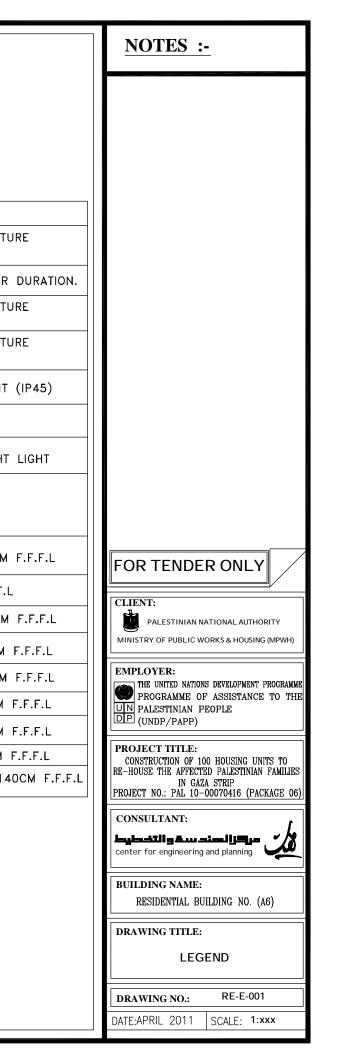


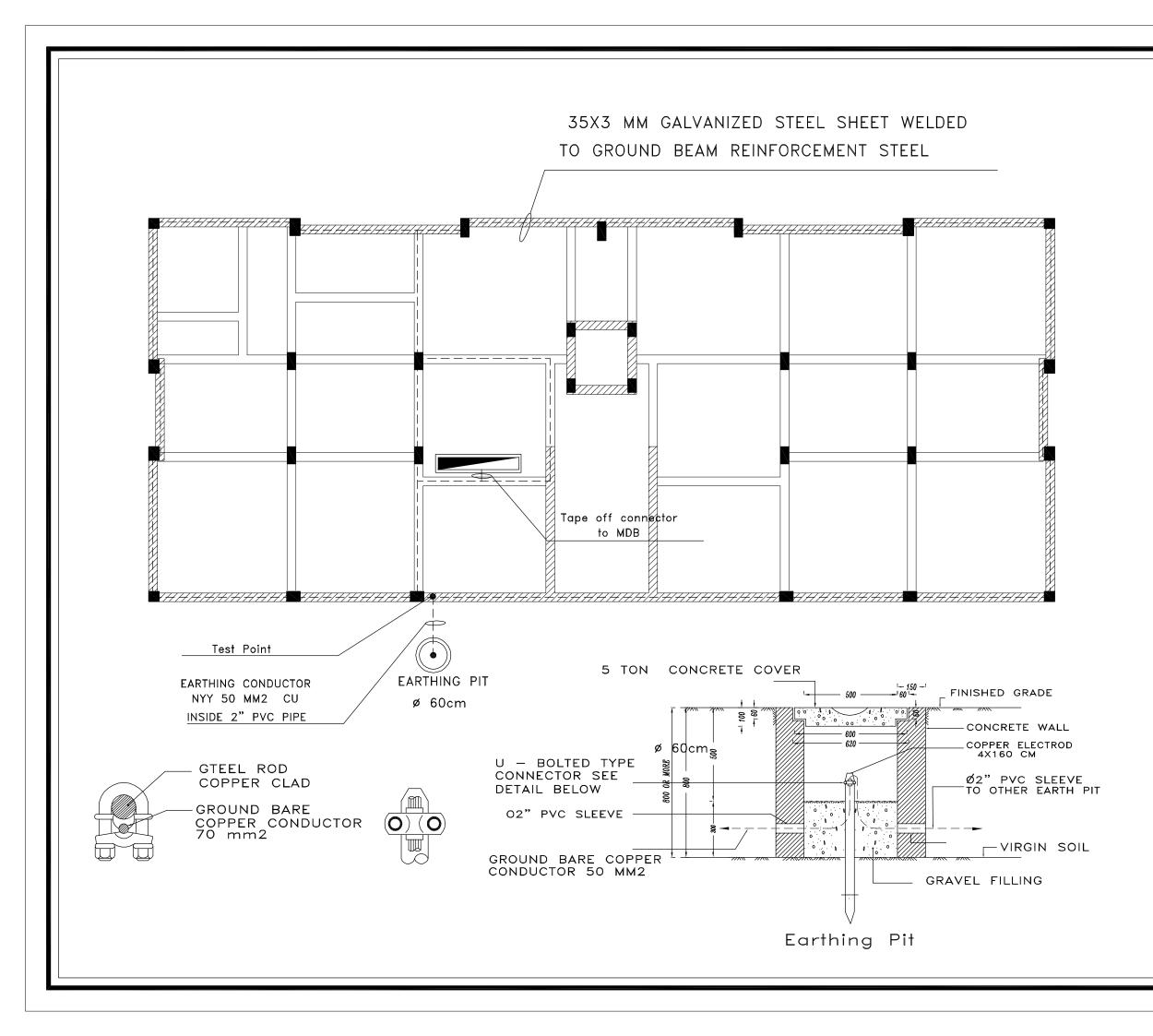
# LIST OF DRAWINGS

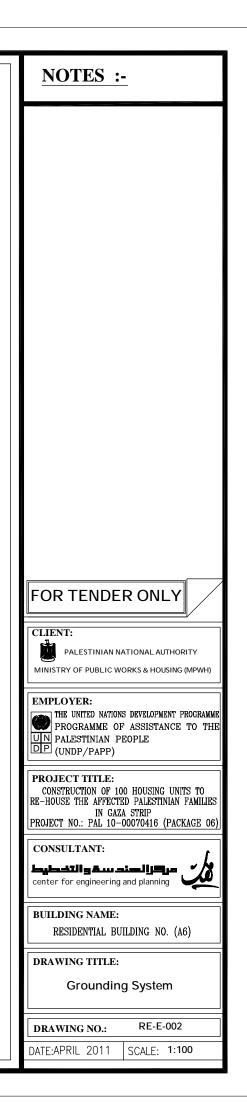
S/NO.	DRAWING NAME	DRG. NO.			
ELECTRICAL DRAWING					
01/16	Legend	RE-E-001			
02/16	Grounding System	RE-E-002			
03/16	UNDERGROUND FLOOR-Electrical Arrangements	RE-E-003			
04/16	UNDERGROUND FLOOR-Lighting Fittings Layout	RE-E-004			
05/16	UNDERGROUND FLOOR-Power Fittings Layout	RE-E-005			
06/16	GROUND FLOOR-Lighting Fittings Layout	RE-E-006			
07/16	GROUND FLOOR-Power Fittings Layout	RE-E-007			
08/16	GROUND FLOOR-Telephone & TV Fittings Layout	RE-E-008			
09/16	TYPICAL FLOOR-Lighting Fittings Layout	RE-E-009			
10/16	TYPICAL FLOOR-Power Fittings Layout	RE-E-010			
11/16	TYPICAL FLOOR-Telephone & TV Fittings Layout	RE-E-011			
12/16	TYPICAL FLAT PANEL-DB-G1 Single Line Power Diagram	RE-E-012			
13/16	UNDERGROUND FLOOR-DB-B Single Line Power Diagram	RE-E-013			
14/16	UNDERGROUND FLOOR-MDB Main Distribution Board	RE-E-014			
15/16	Power Cables Riser Diagram	RE-E-015			
16/16	Telephone Cables Riser Diagram	RE-E-016			

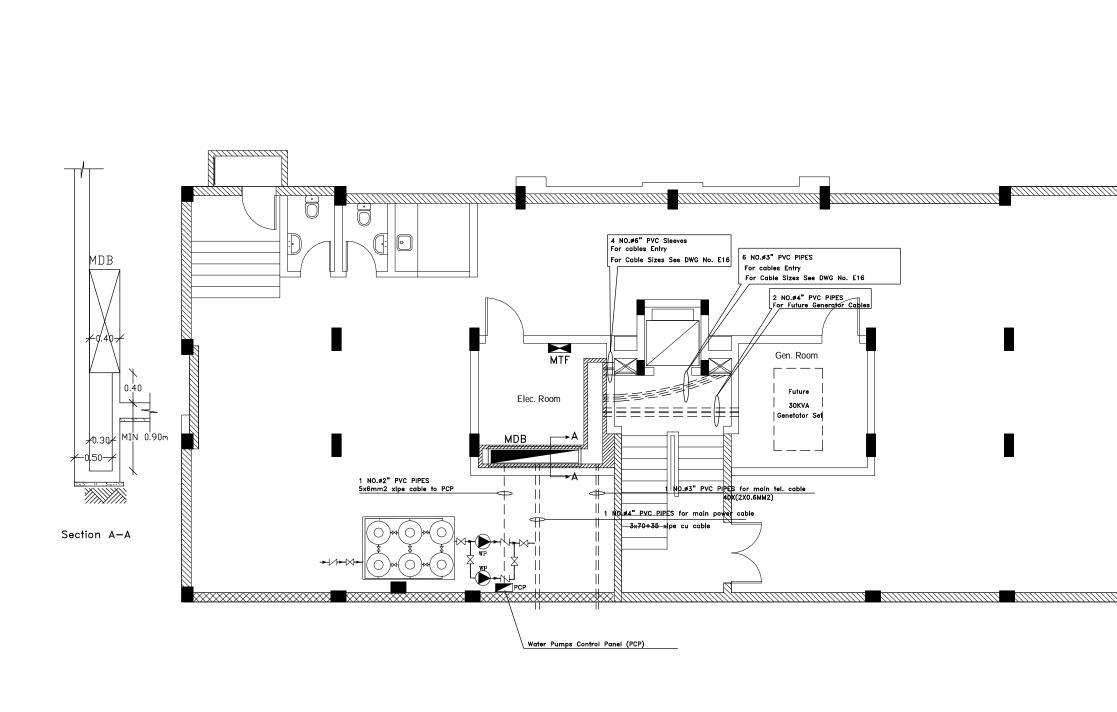
SYMBOL	DESCRIPTION
-(	16A SINGLE PHASE, 3-PIN SOCKET OUTLET H=45CM F.F.F.L
	16A SINGLE PHASE, 3-PIN SOCKET OUTLET, WATER PROOF.IP65 H=140CM F.F.F.L
$\mathcal{F}$	1x20A - 220V AIR CONDITIONING SOCKETOUTLET +CONTROL SWITCH WITH INDICATOR LAMP. H=160CM F.F.F.L
# <del>-</del> K	THREE PHASE, SOCKET OUTLET H=140CM F.F.F.L
W.H	ELECTRICAL WATER HEATER H=180CM F.F.F.L
	OUTDOOR A/C UNITS
	A/C SPLIT UNIT
	SUB-DISTRIBUTION BOARD H=160CM F.F.F.L
	MAIN DISTRIBUTION BOARD (MDB)
	WALL OR WINDOW MOUNTED EXHAUST FAN
$\sim$	Electrical Bell
$\square$	RJ11 TELEPHONE SOCKET OUTLET.
TEL	TELEPHONE JUNCTION BOX H=45CM F.F.F.L
	Intercom Indoor Handle H=160CM F.F.F.L
	Intercom Outdoor Panel H=160CM F.F.F.L
	TV SOCKET OUTLET H=45CM F.F.F.L
TV	TELEPHONE JUNCTION BOX H=45CM F.F.F.L
MTF	MAIN TELEPHONE FRAME H=45CM F.F.F.L

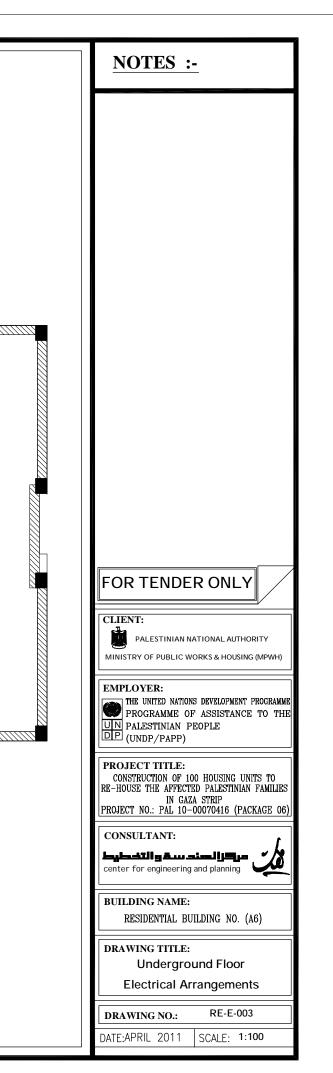
SYMBOL	DESCRIPTION
	2x36W SURFACE MOUNTED FLUORESCENT LIGHTING FIXTO WITH OUT REFLECTOR IP20
EM	DITTO BUT WITH BACK UP POWER BUILT IN, FOR 1.5HR
$\sim$	2x36W SURFACE MOUNTED FLUORESCENT LIGHTING FIXTU WATER PROOF IP65
EM	2x36W SURFACE MOUNTED FLUORESCENT LIGHTING FIXTU WATER PROOF IP65
	26W COMPACT FLUORESCENT SURFACE MOUNTED LIGHT
-	DITTO BUT WALL MOUNTED
-18	10W INCANDESCENT WALL MOUNTED DECORATIVE NIGHT
	CHNDELIER
6	1-GANG LIGHTING SWITCH, ONE WAY 16A H=140CM
5	DITTO BUT WATER PROOF IP 65 . H=140CM F.F.F.I
Ś	2-GANG LIGHTING SWITCH, ONE WAY 16A H=140CM
F	DITTO BUT WATER PROOF IP 65 . H=140CM
J.	3-GANG LIGHTING SWITCH, ONE WAY 16A H=140CM
F	DITTO BUT WATER PROOF IP 65 . H=140CM
Ą	2-WAY LIGHTING SWITCH, 16A H=140CM
Ś	DITTO BUT WATER PROOF IP 65 . H=140CM
•	PUSHBUTTON LIGHTING SWITCH, ONE WAY 10A H=14

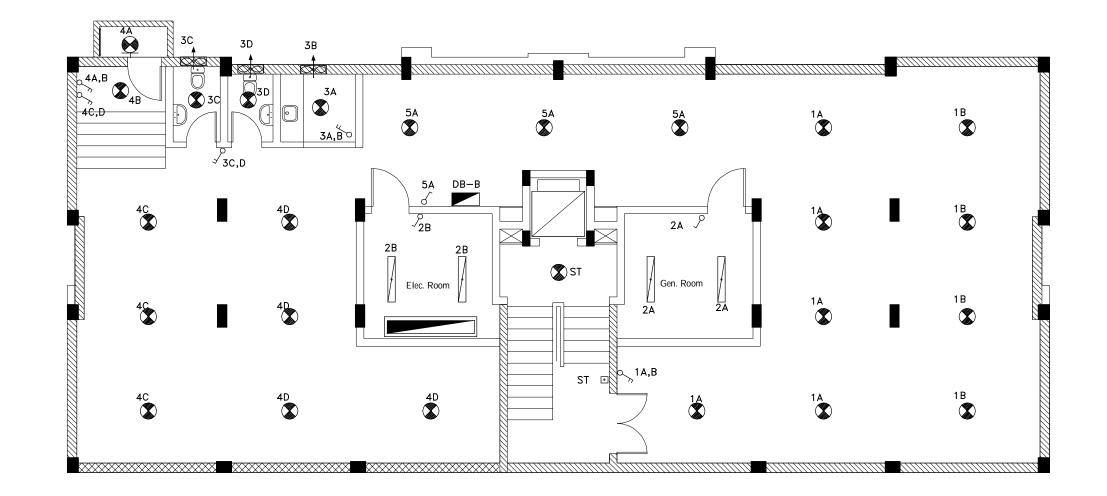


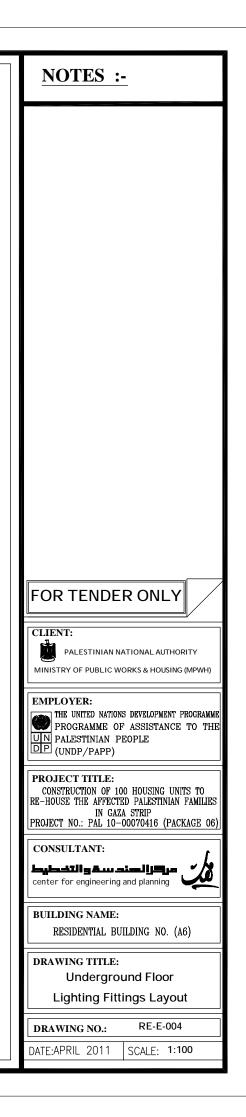


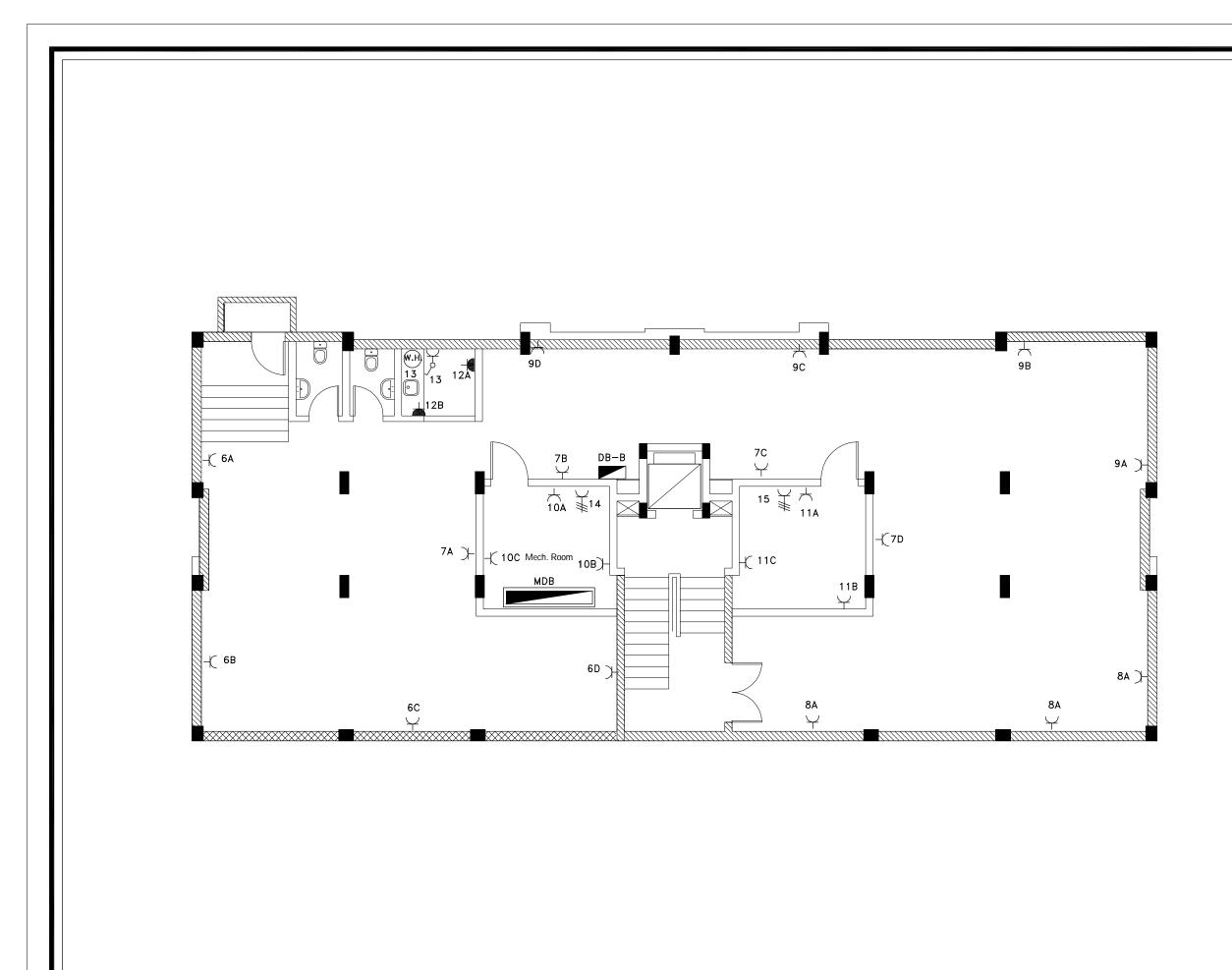


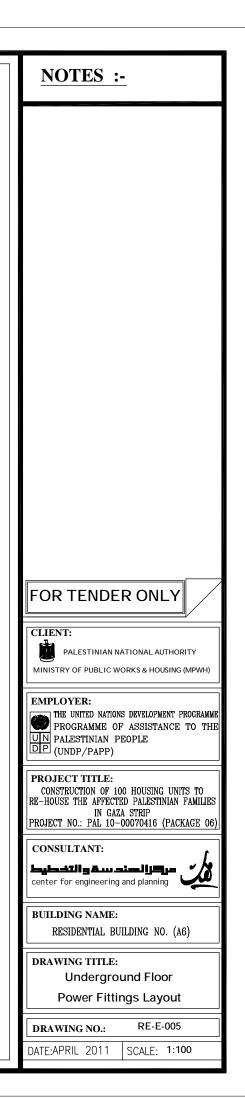


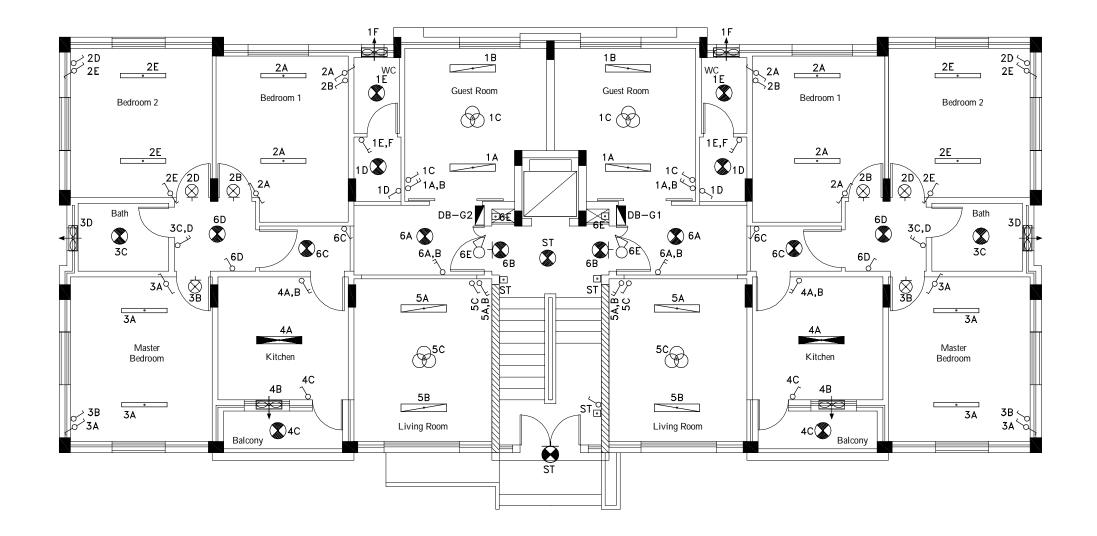


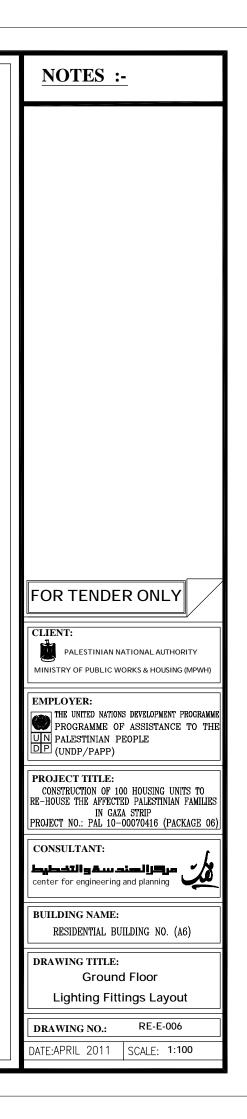


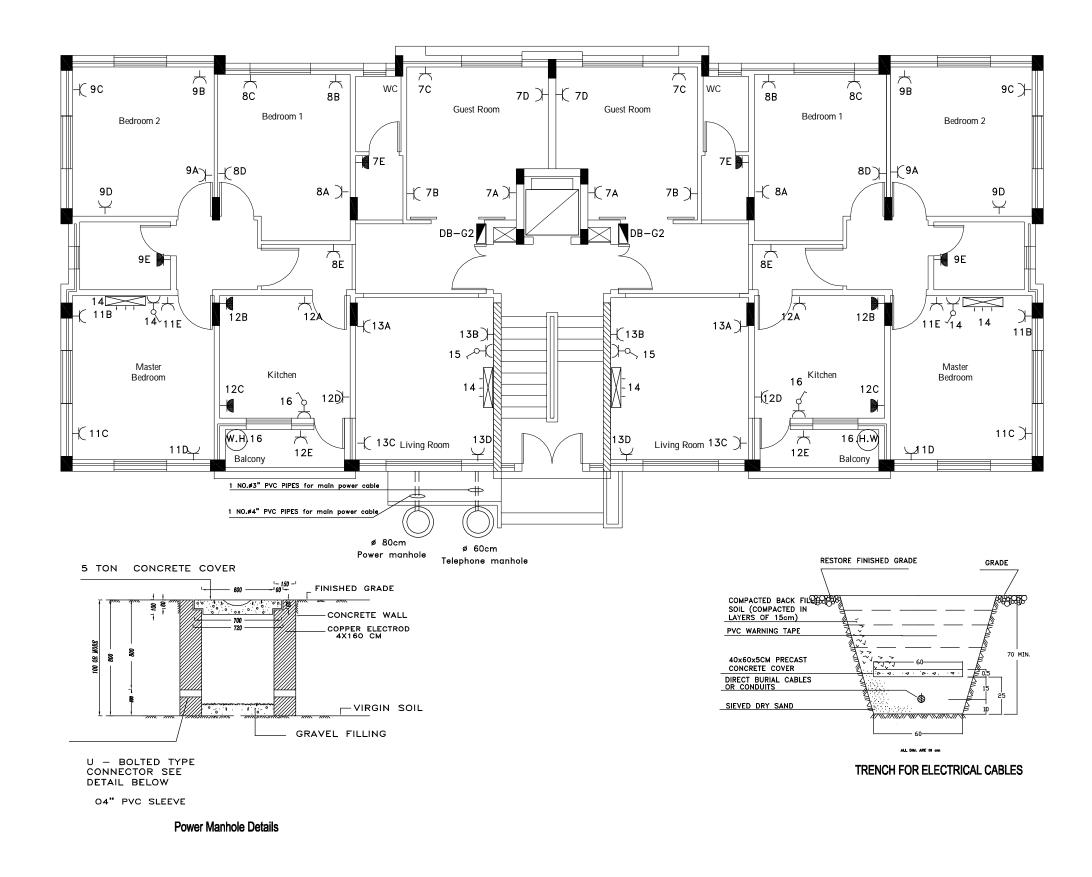


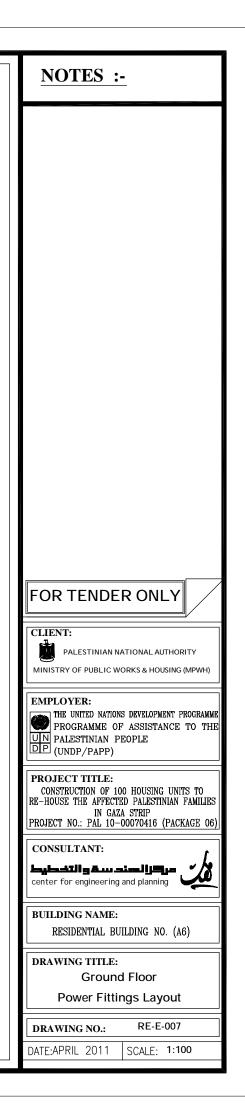


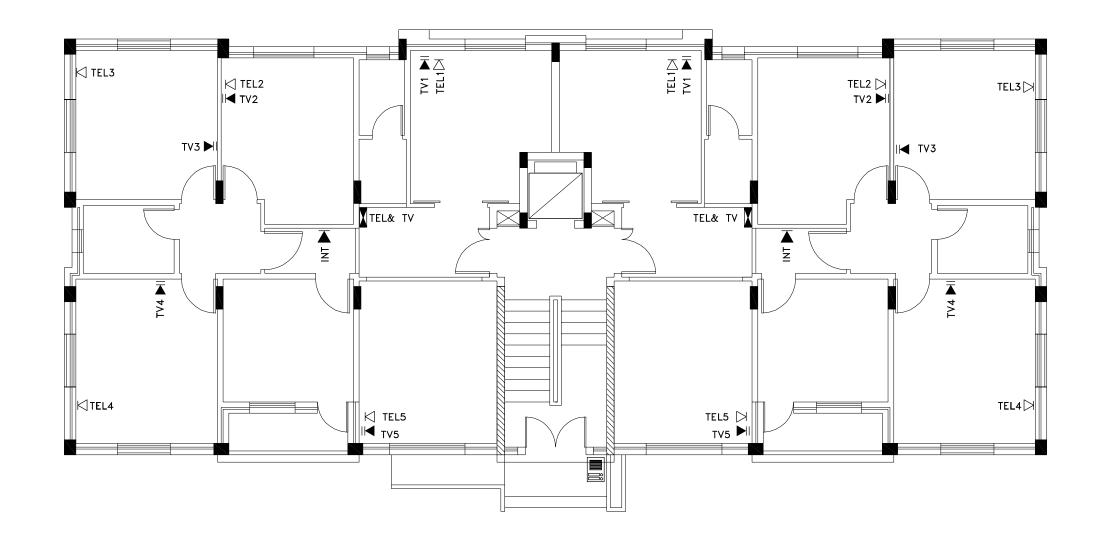


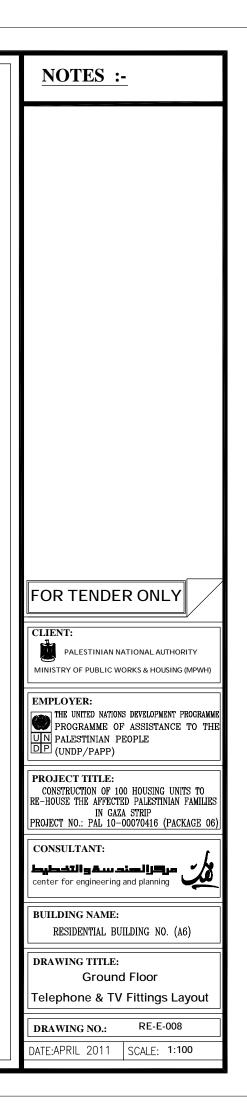


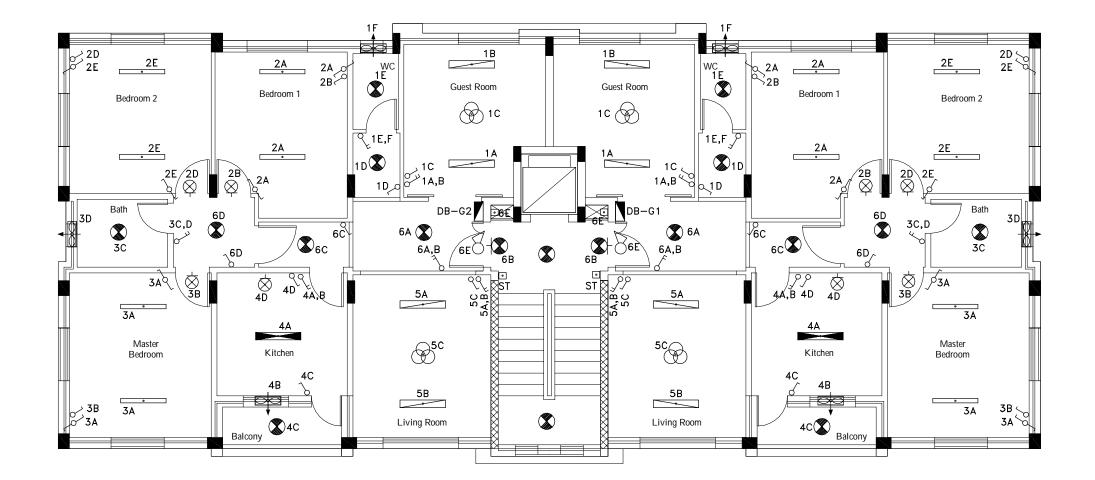


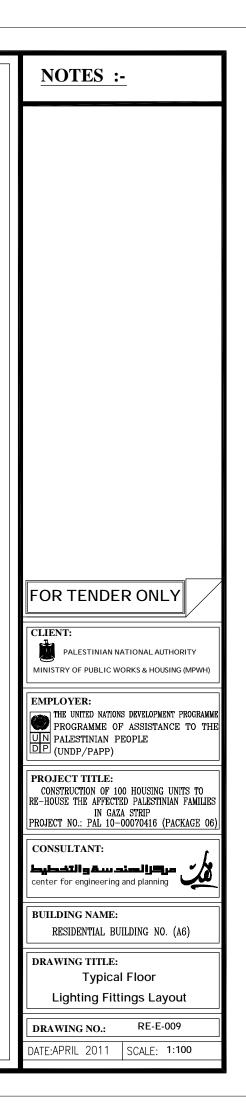


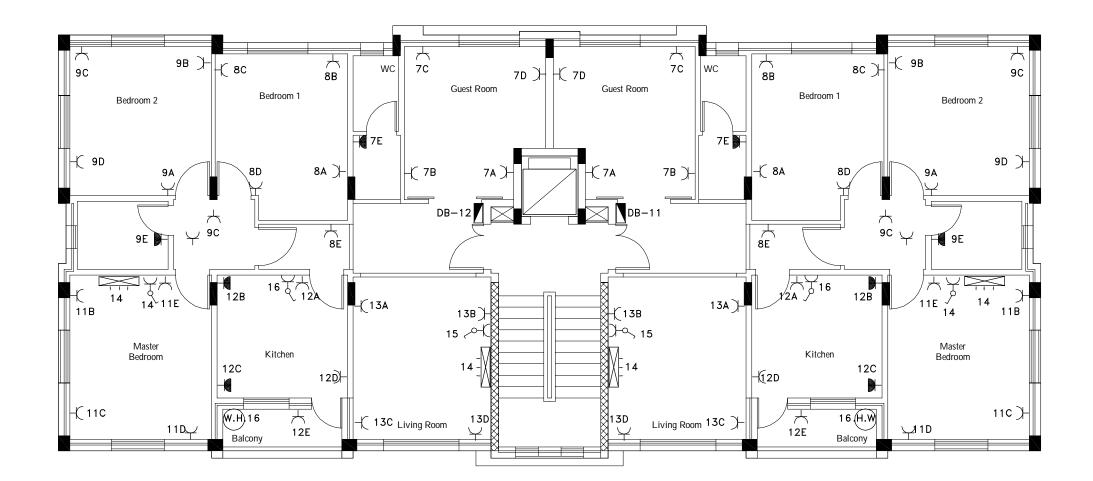


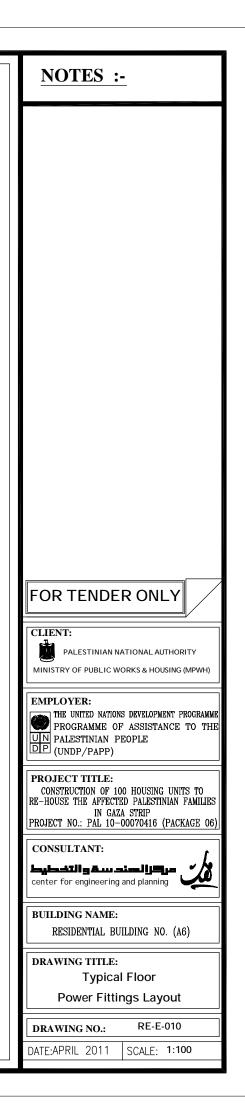


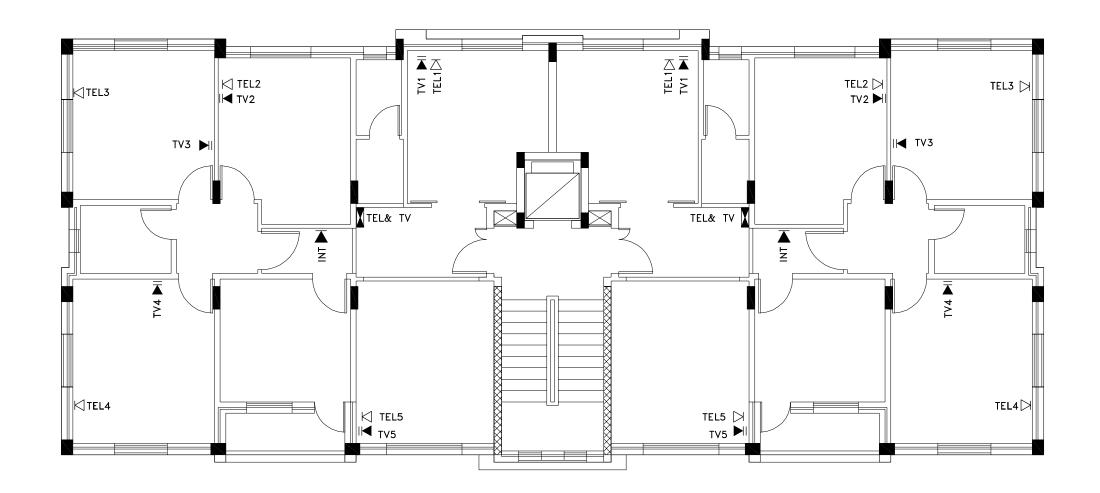


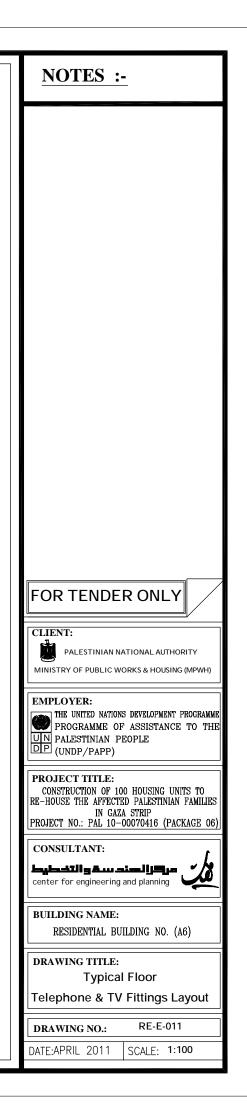


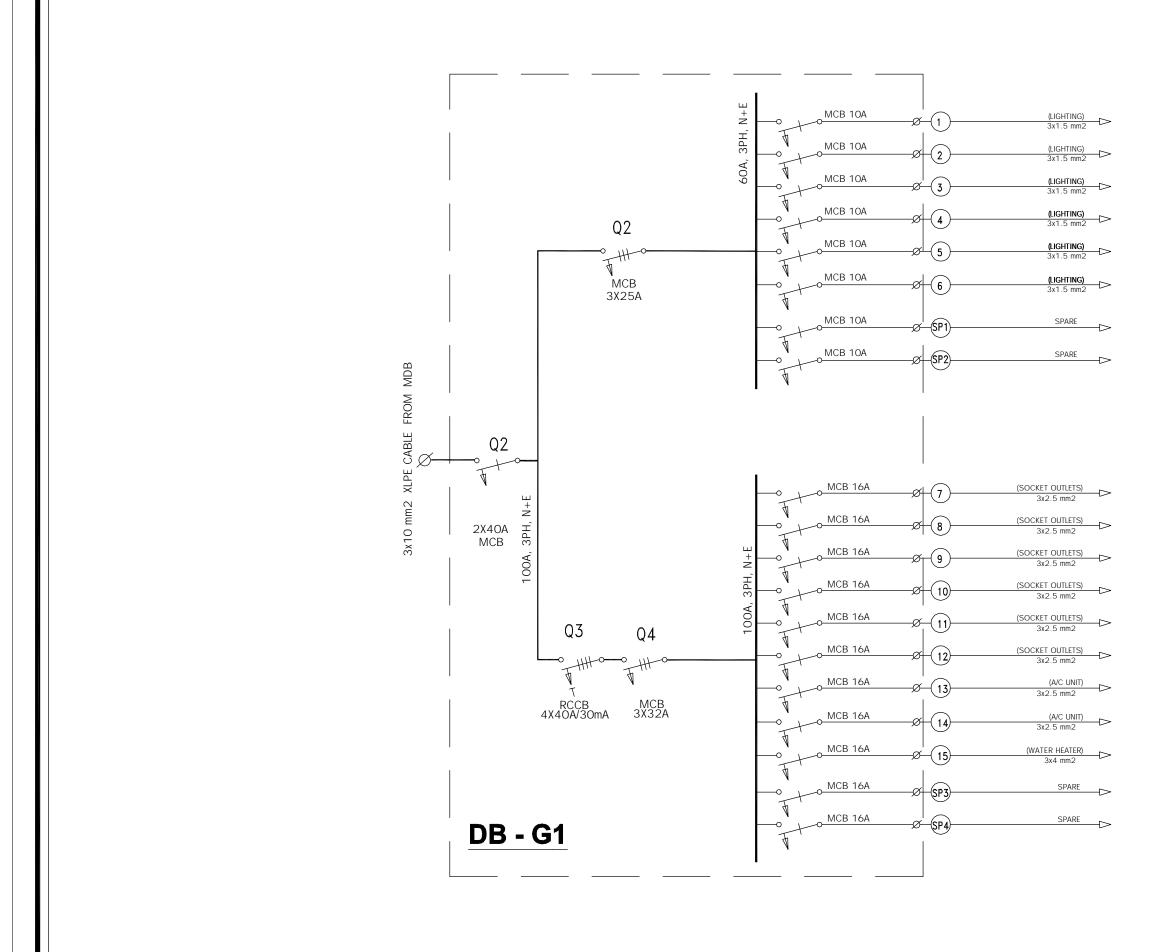


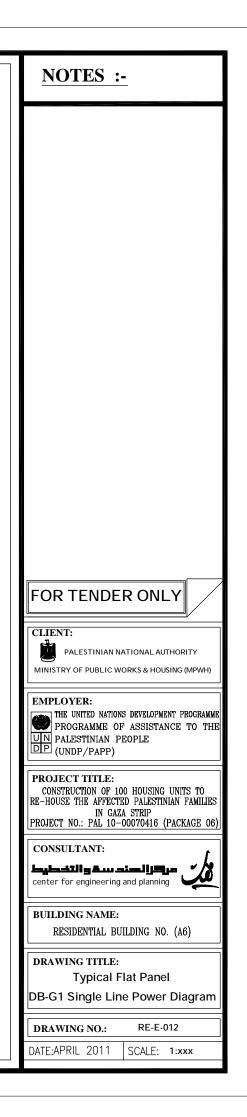


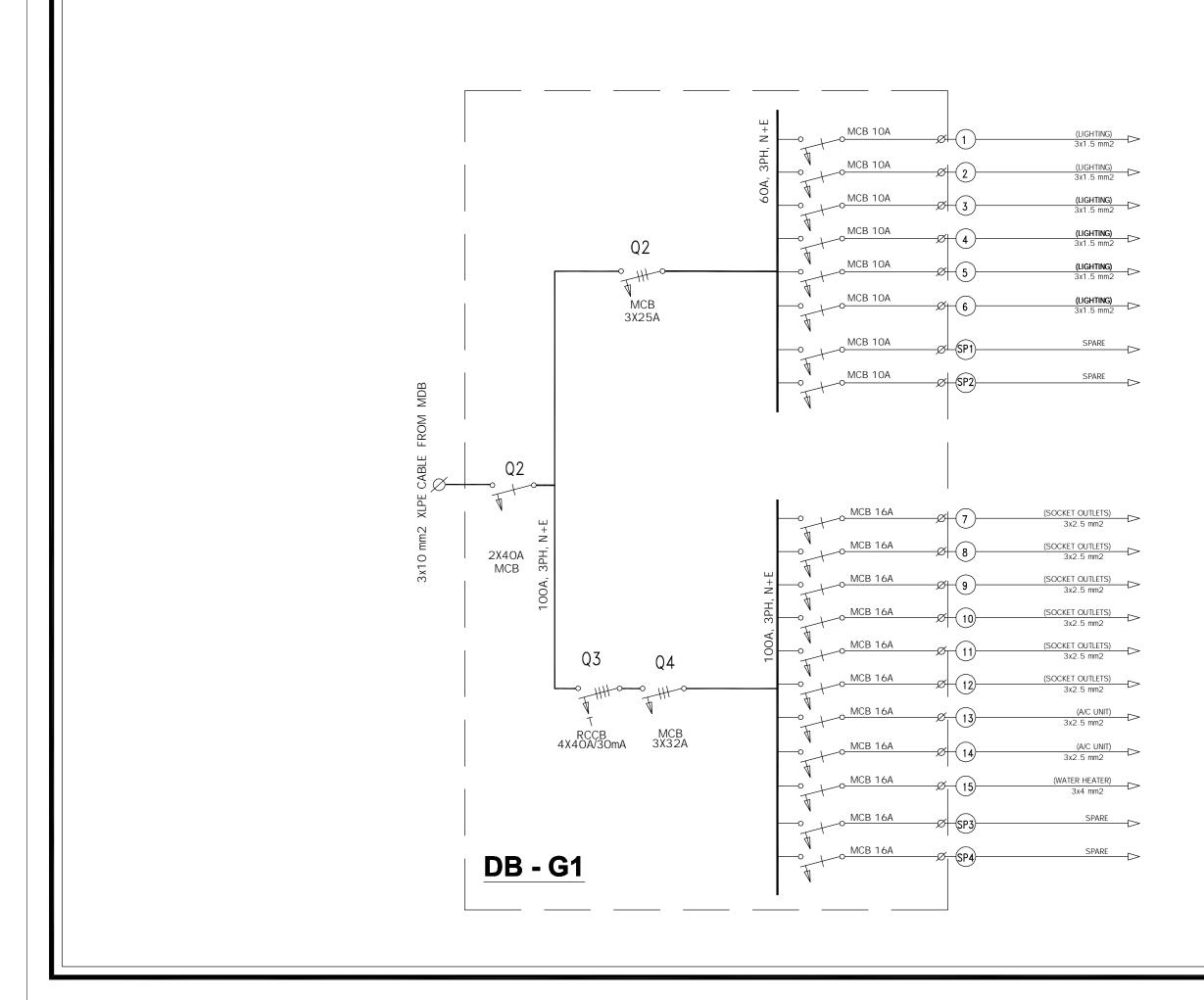


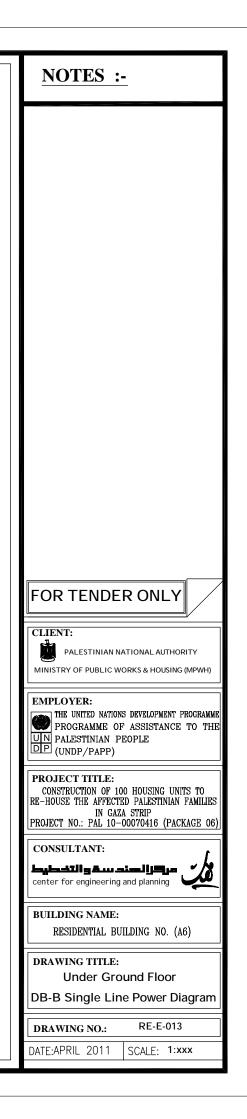


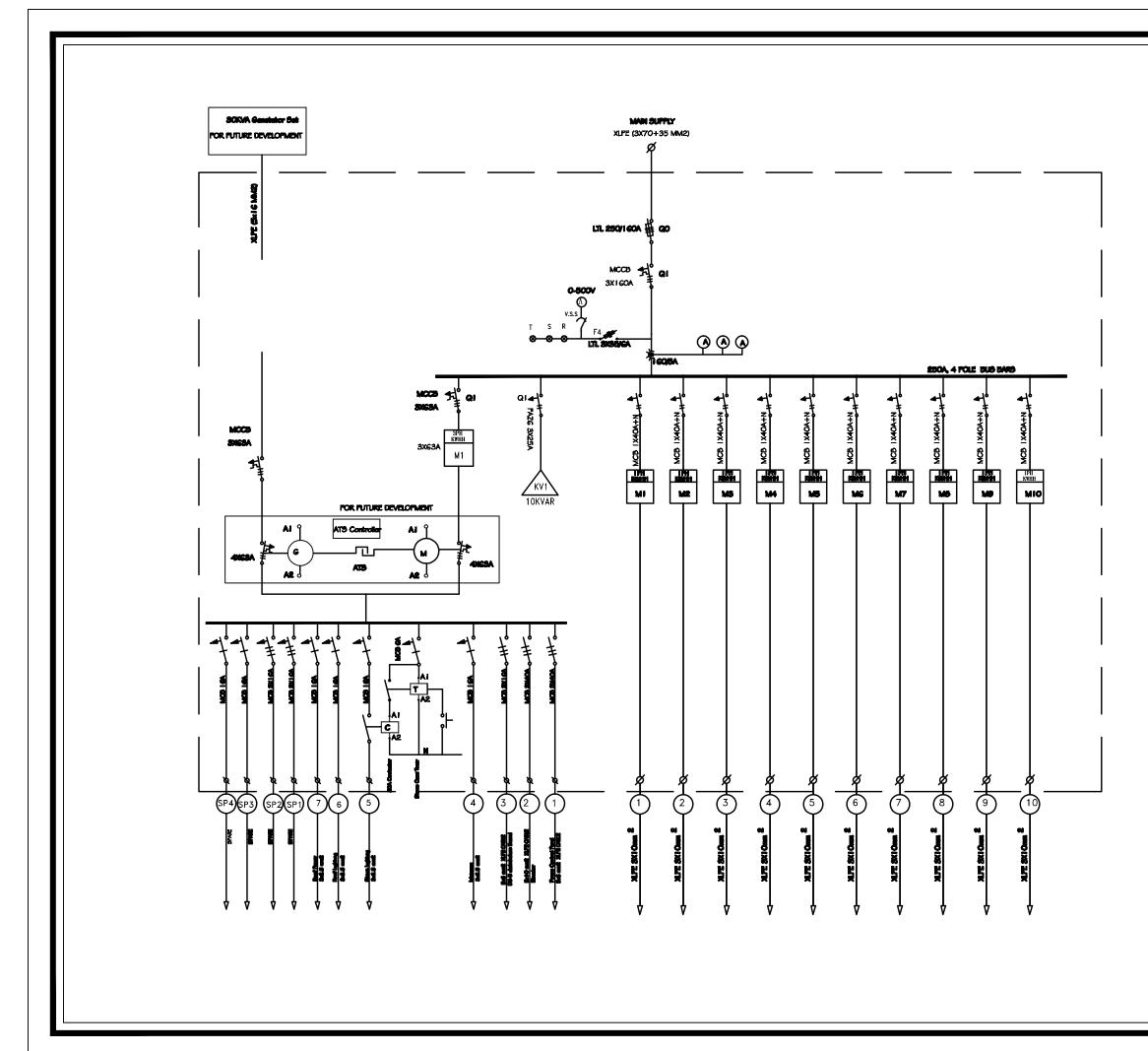


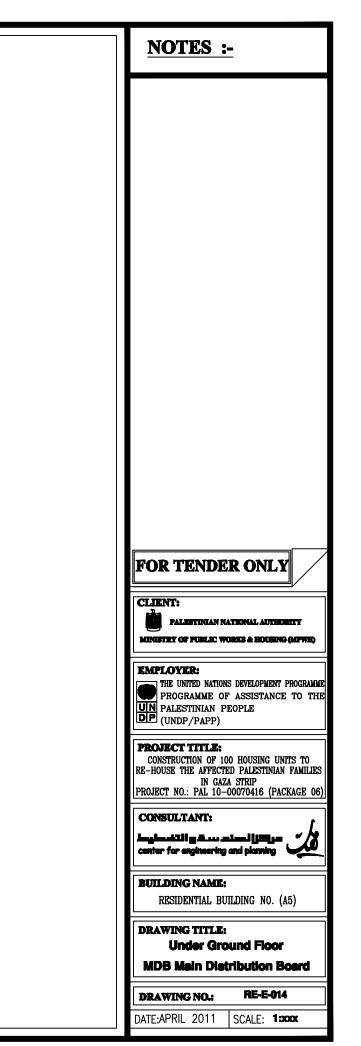


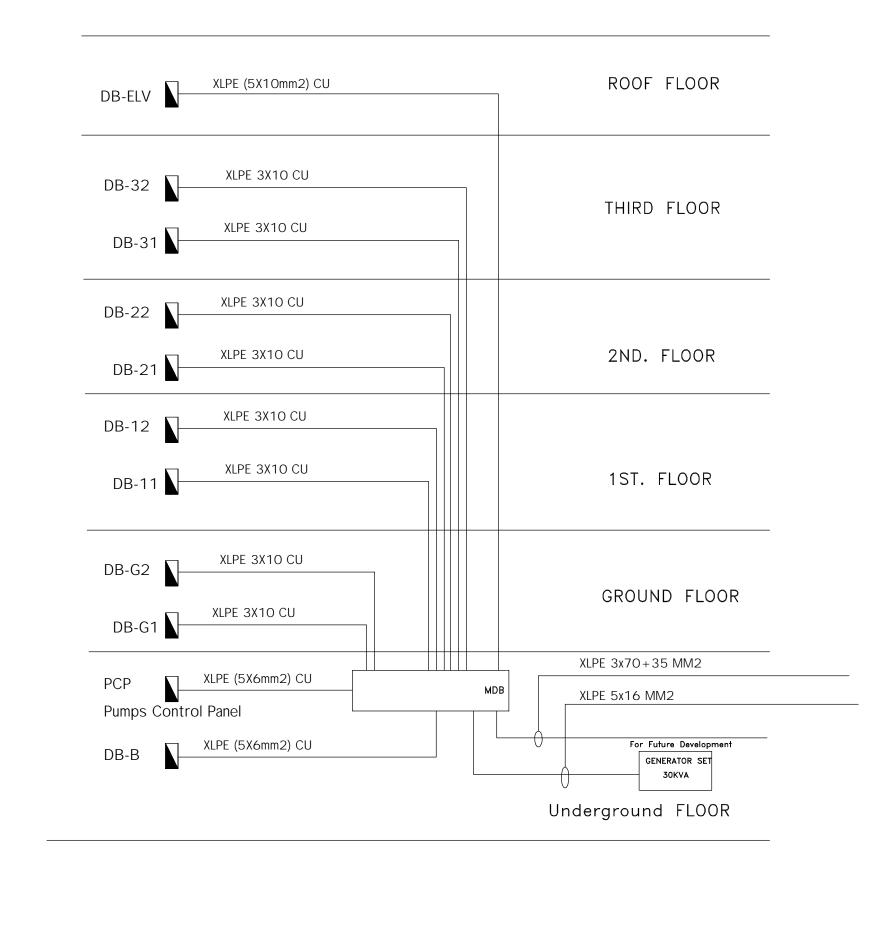


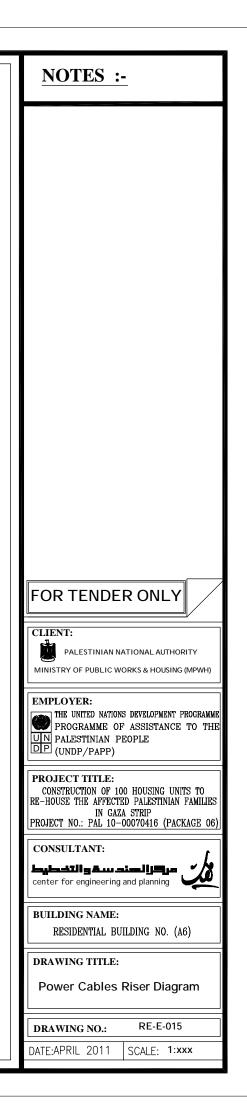


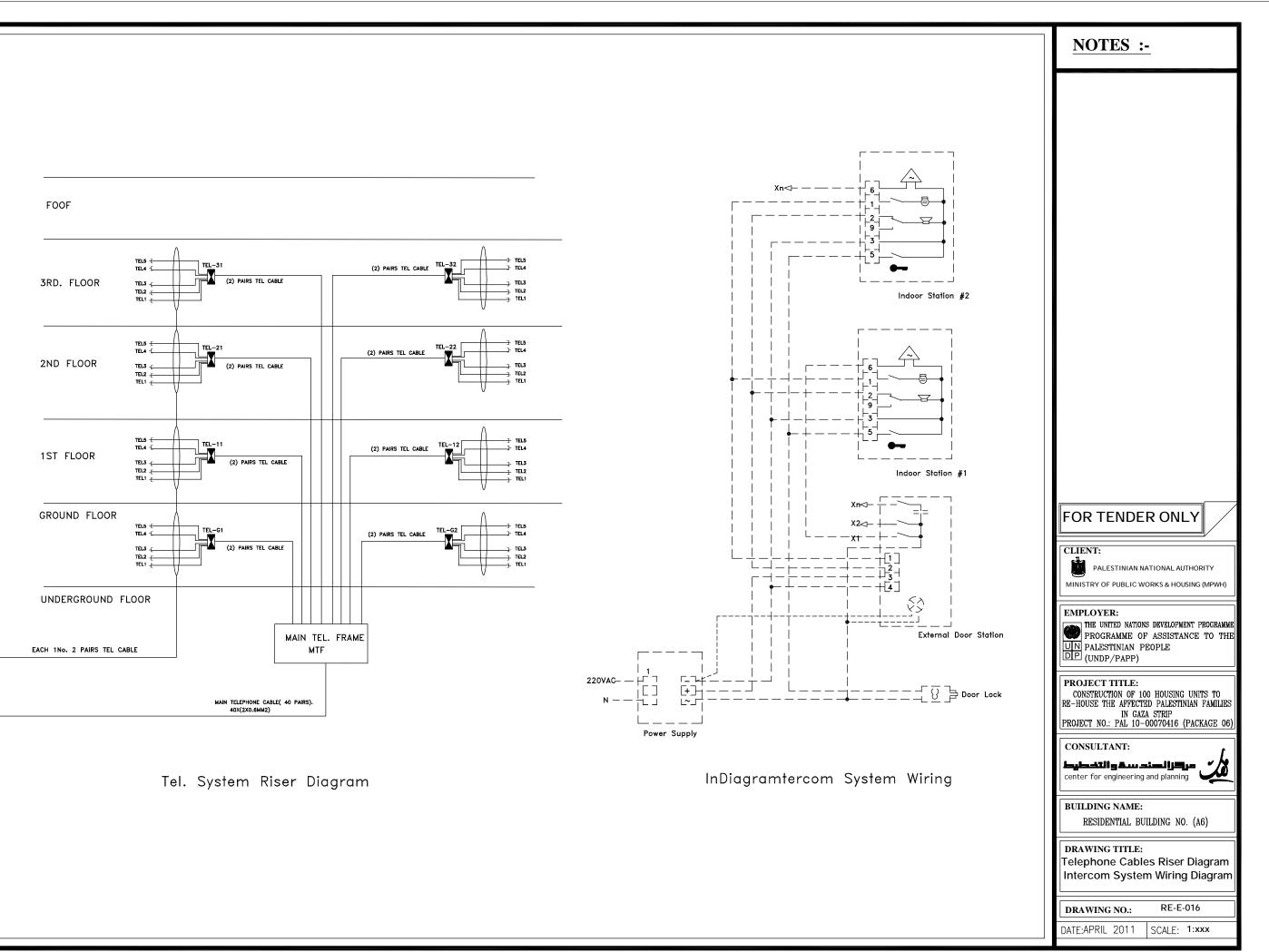


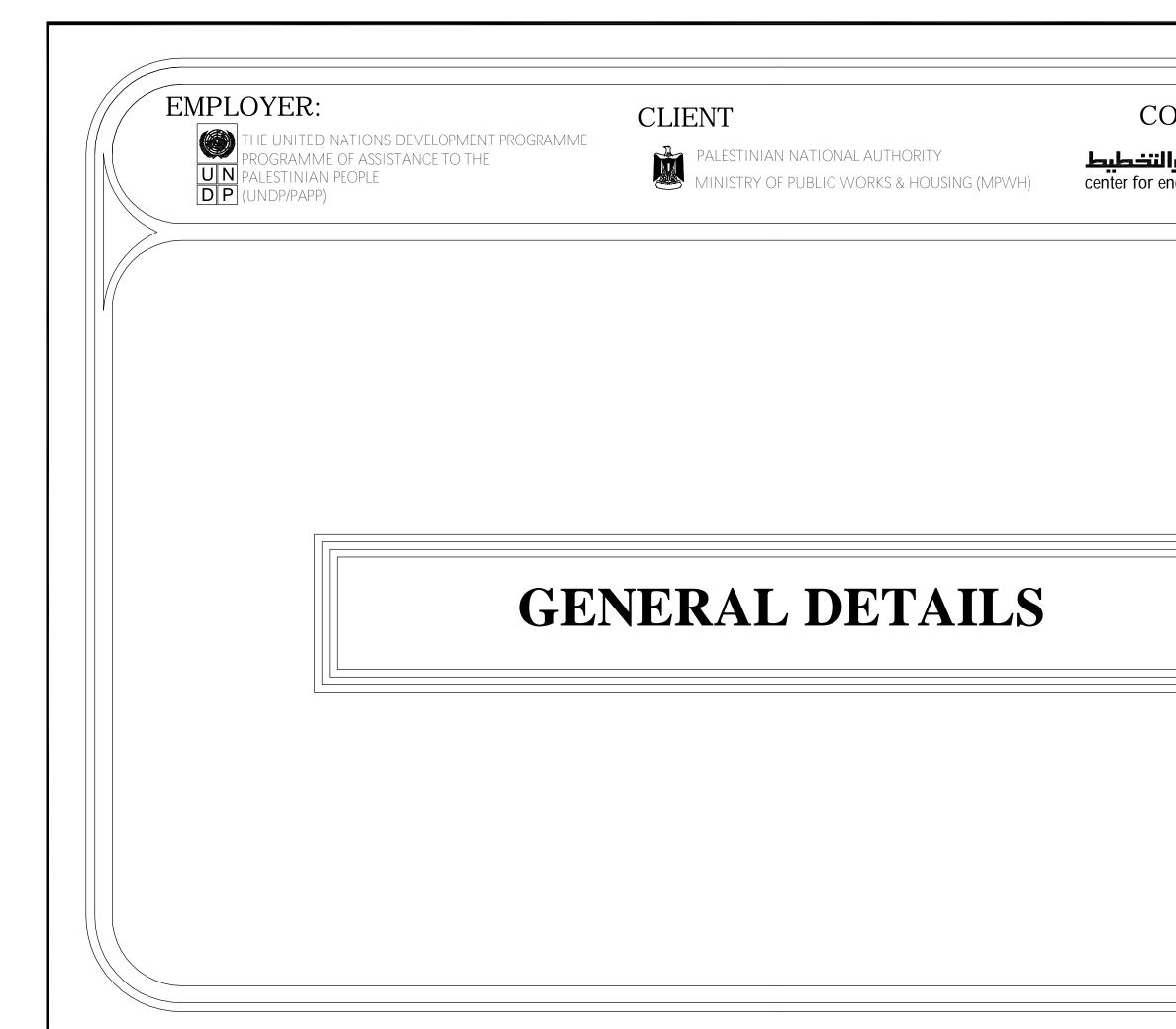


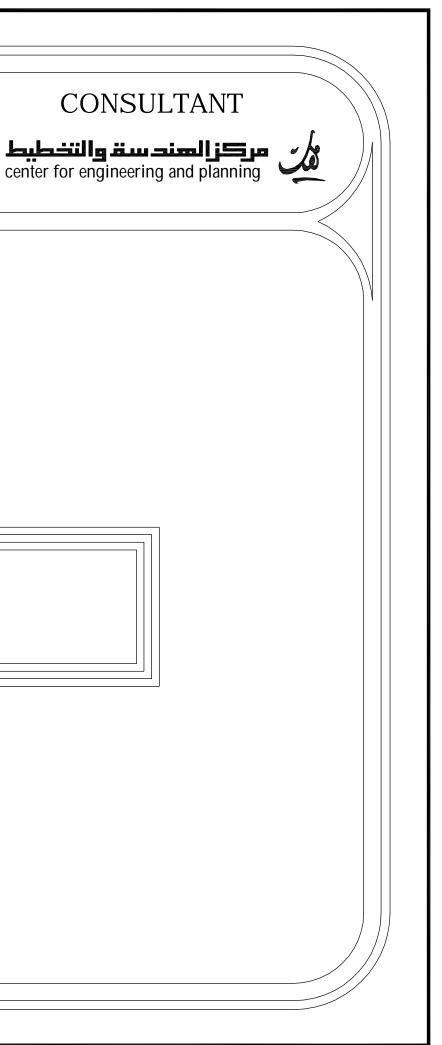












## EMPLOYER:

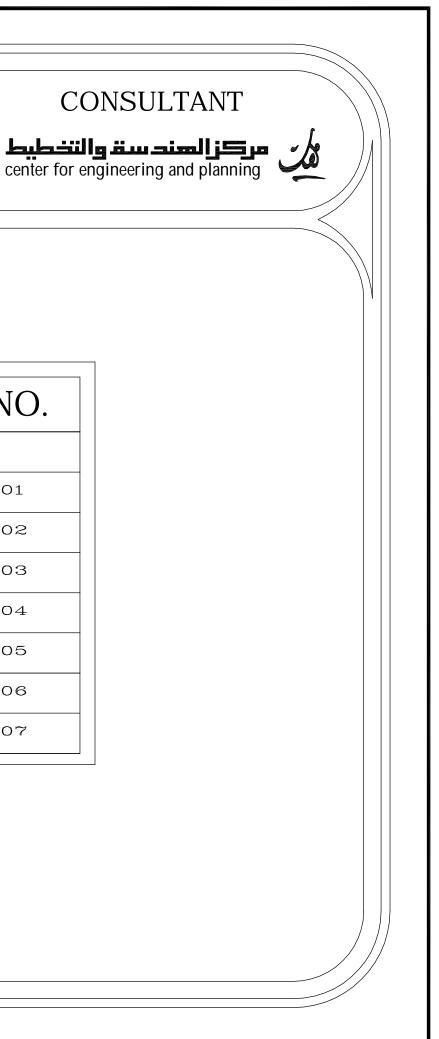


THE UNITED NATIONS DEVELOPMENT PROGRAMME PROGRAMME OF ASSISTANCE TO THE PALESTINIAN PEOPLE DP (UNDP/PAPP)

## CLIENT

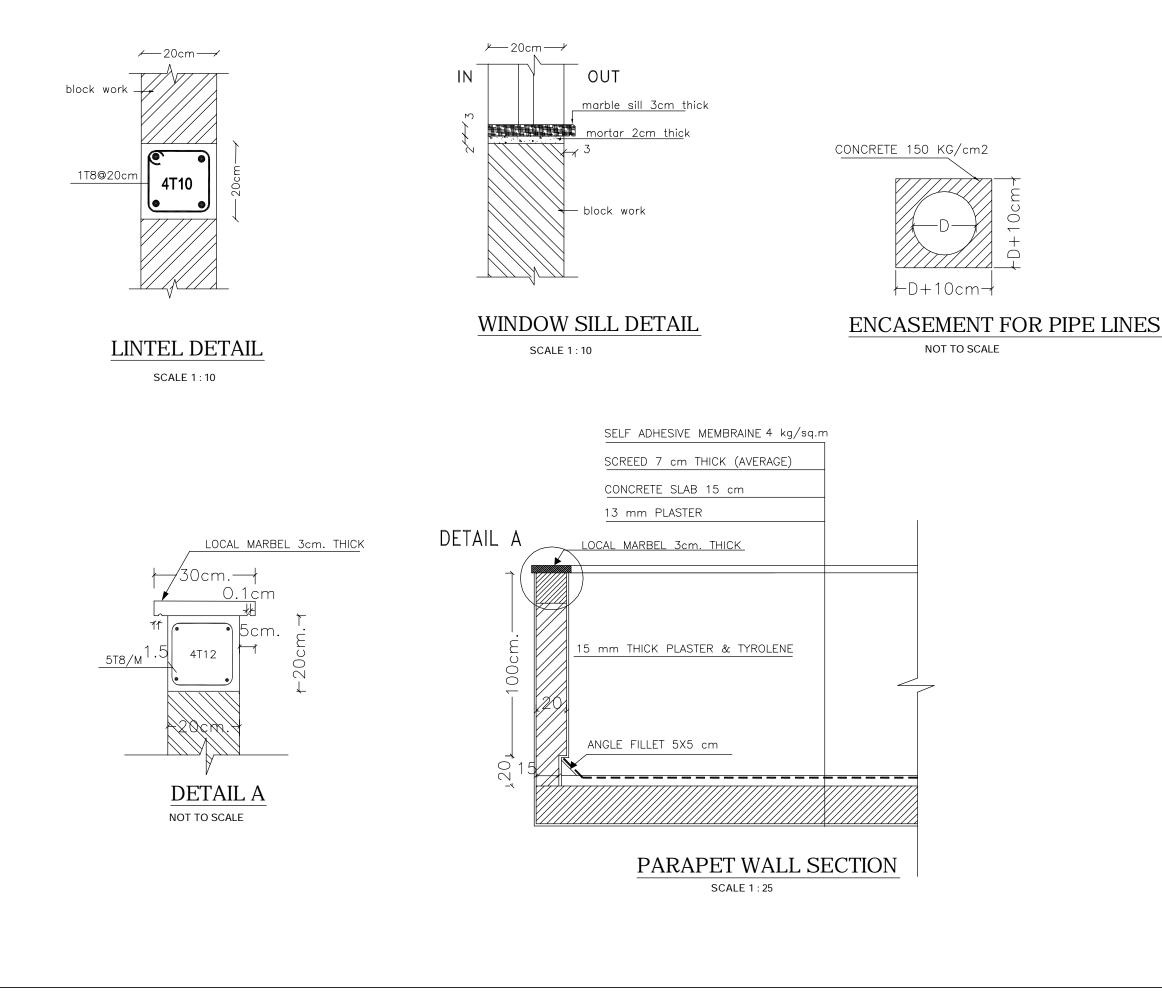


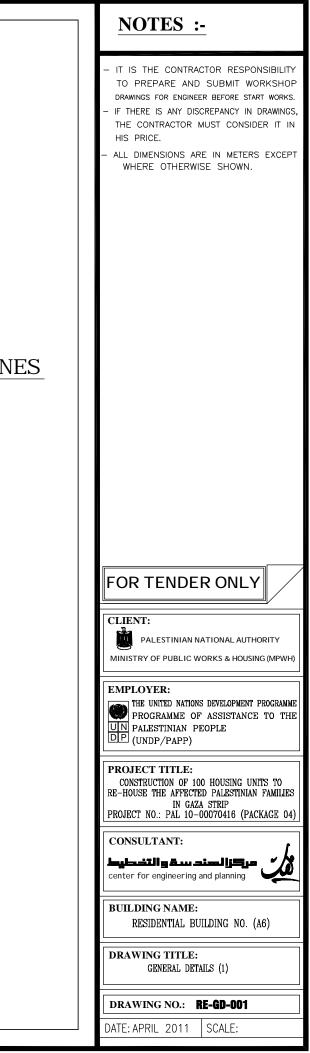
PALESTINIAN NATIONAL AUTHORITY MINISTRY OF PUBLIC WORKS & HOUSI MINISTRY OF PUBLIC WORKS & HOUSING (MPWH)

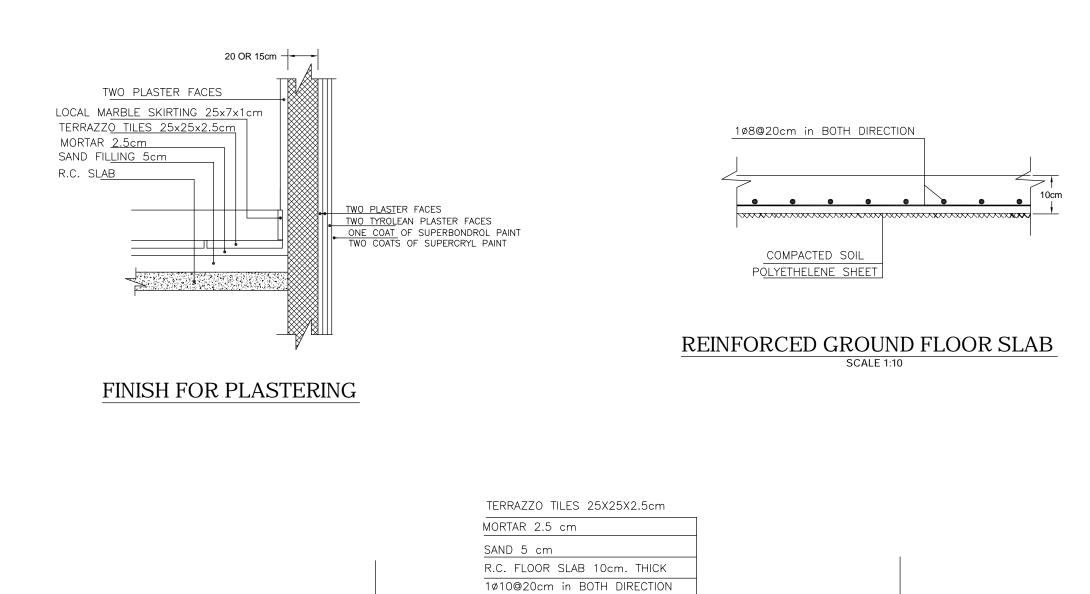


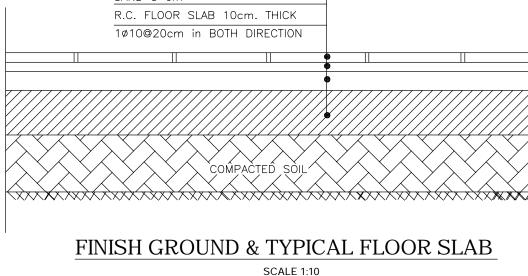
LIST OF DRAWINGS

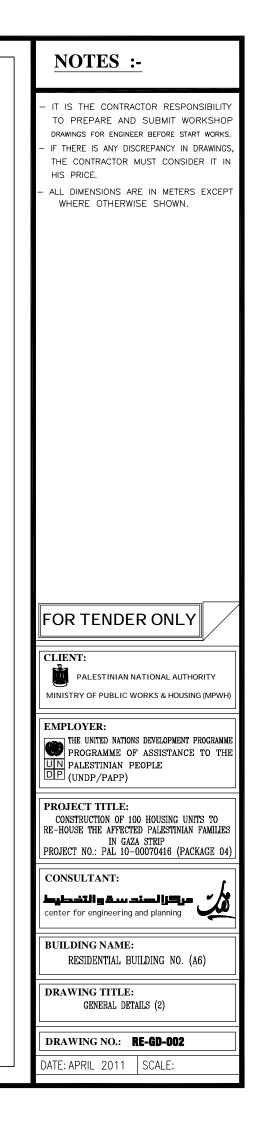
S/NO.	DRAWING NAME	DRG. NO.					
GENERAL DETAILS							
01/07	GENERAL DETAILS (1)	RE-GD-001					
02/07	GENERAL DETAILS (2)	RE-GD-002					
03/07	GENERAL DETAILS (3)	RE-GD-003					
04/07	GENERAL DETAILS (4)	RE-GD-004					
05/07	GENERAL DETAILS (5)	RE-GD-005					
06/07	GENERAL DETAILS (6)	RE-GD-006					
70/70	GENERAL DETAILS (7)	RE-GD-007					

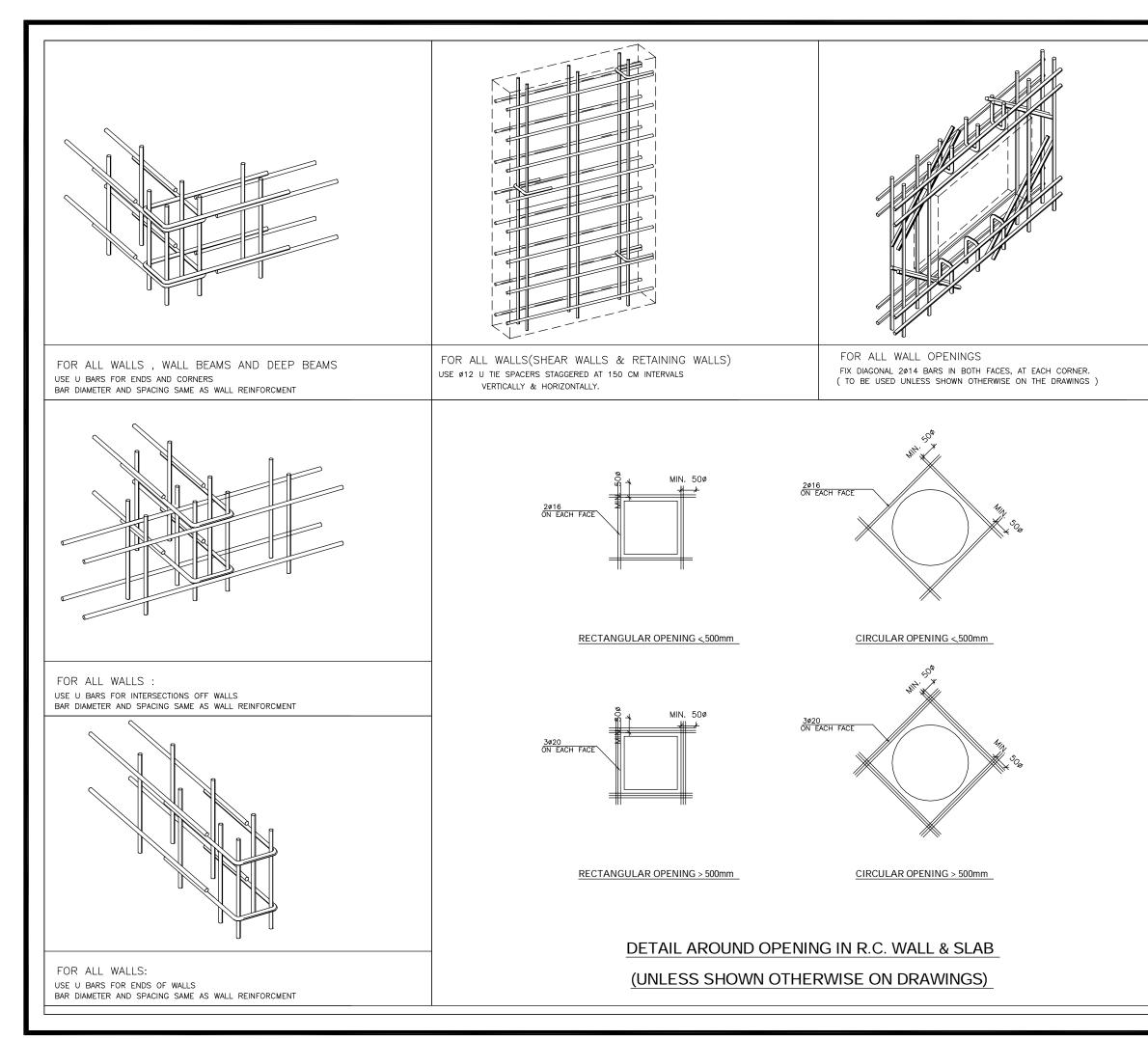


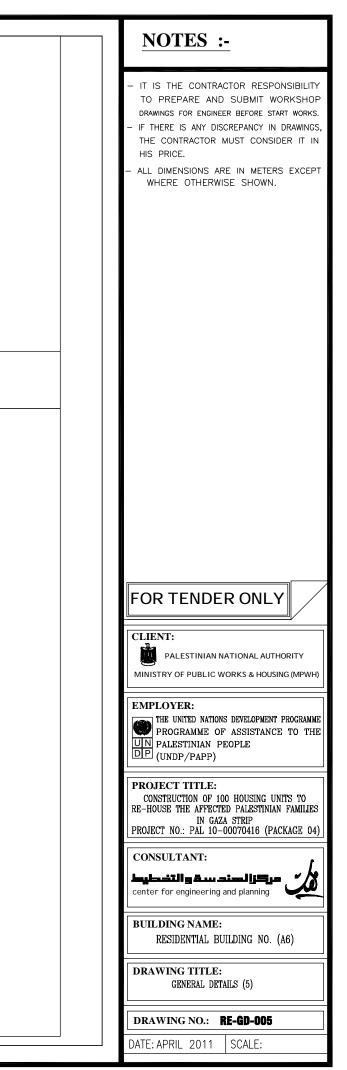


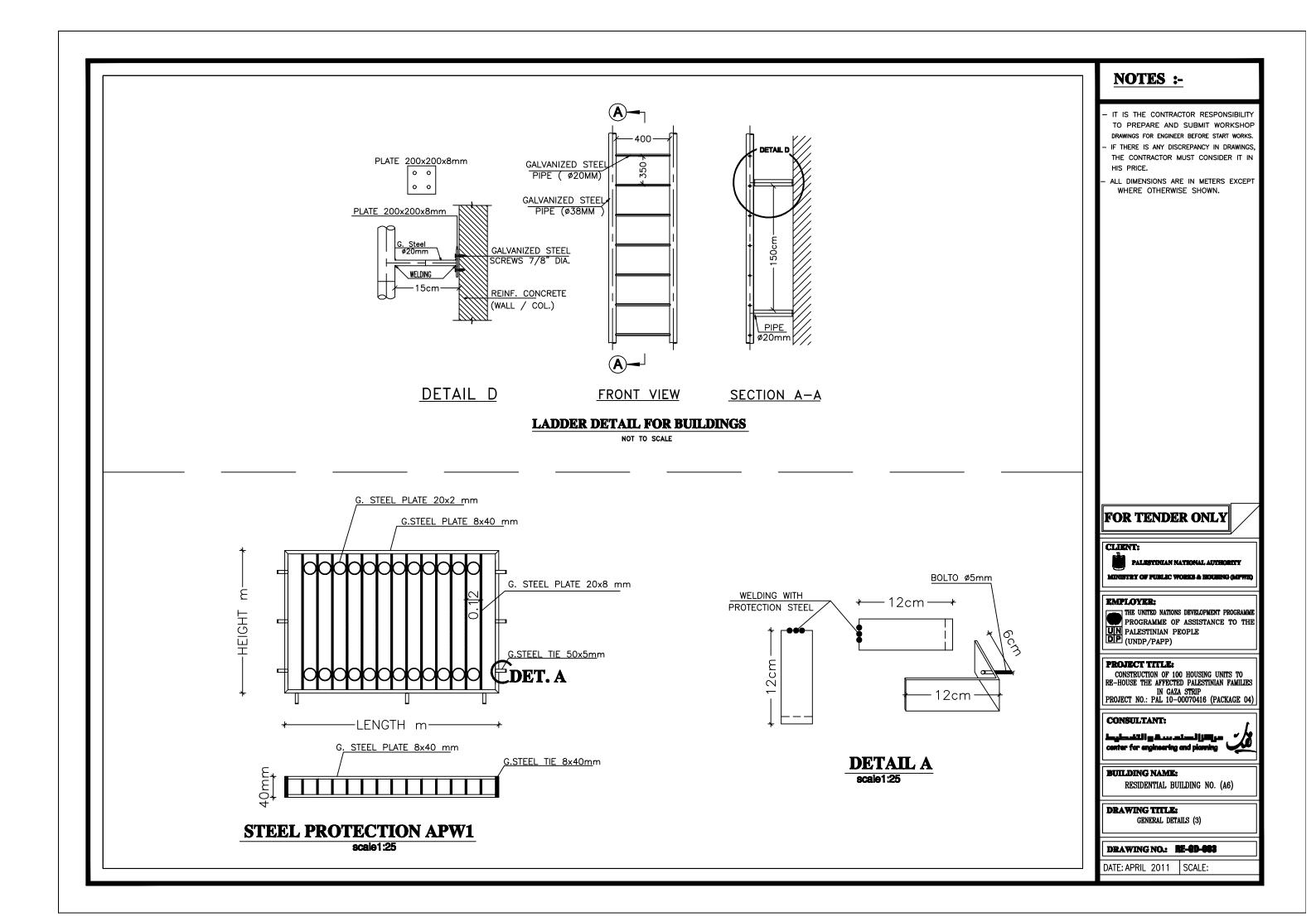


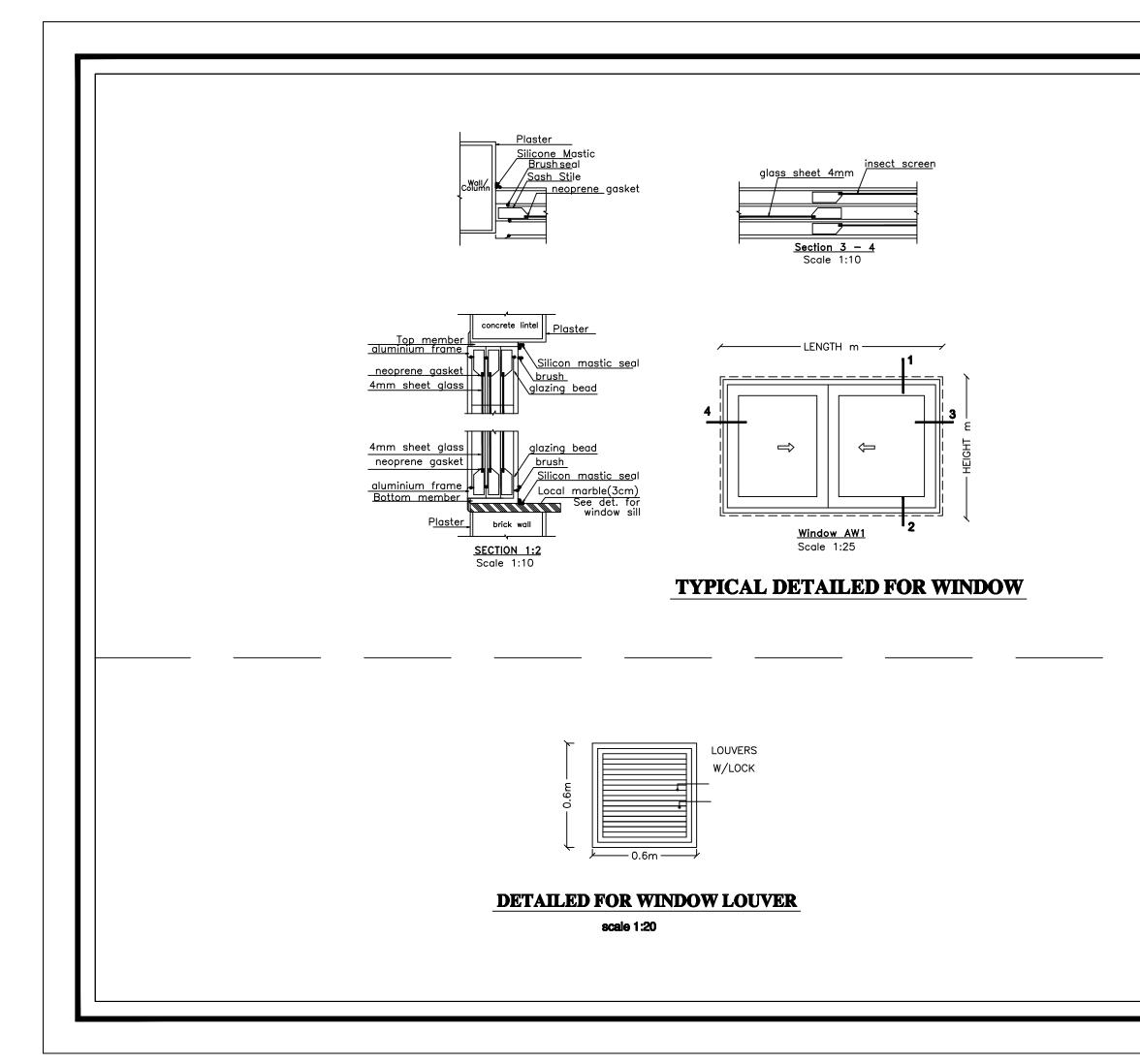


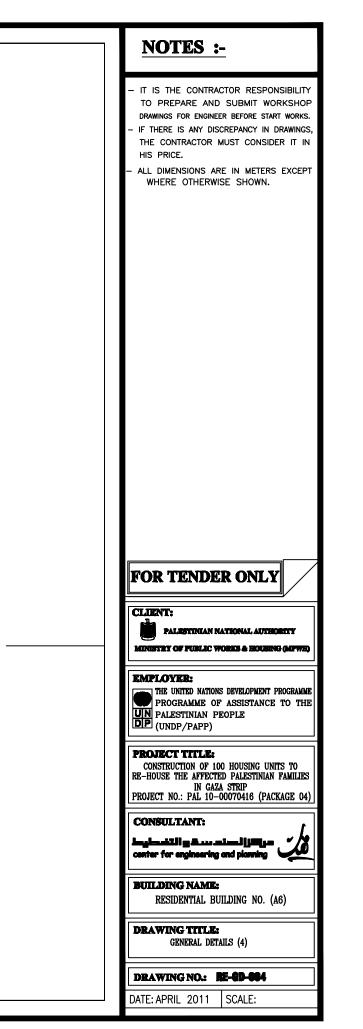












## LINTELS DETAILS.

SCHEDULE OF LINTELS REINFORCEMENT										
LINTEL WIDTH =b	b=10cm.		b=15cm.		b=20cm./30cm.		DEPTH=			
CLEAR SPAN	TOP REINF.	BOTTOM REINF.	TOP REINF.	BOTTOM REINF.	TOP REINF.	BOTTOM REINF.	d	STIRRUPS		
< 200	1T12	1⊤14	2T12	2T12	2T12	2T14	20	1ø8@200mm		
200-300	1T12	1T14	2T12	2T14	2T12	2T16	25	1ø8@200mm		
301-400	1T12	1T16	2T12	2T14	2T12	2T16	30	1ø8@200mm		
401-500	1T12	1T16	2T14	2T16	2T14	2T20	35	1ø8@200mm		
501-600	1T14	1T20	2T14	2T16	2T14	2T20	40	1ø8@200mm		
601-700	1T14	1T20	2T14	2T20	2T14	2T20	50	1ø8@200mm		
701-800	1T14	1T20	2T16	2T20	2T16	3T20	55	1ø8@200mm		

