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Palestinian National Authority
Ministry of Health
Eng. & Maintenance Administrative
Eng. Office & Development Dep.

السلطة الوطنية الفلسطينية
وزارة الصحة
الادارة العامة للهندسة والصيانة
دائرة المكتب الهندسي والتطوير

مشروع انشاء عيادة عطا حبيب

Nov. 2014

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المخططات المعمارية
ARCHITECTURAL DRAWINGS

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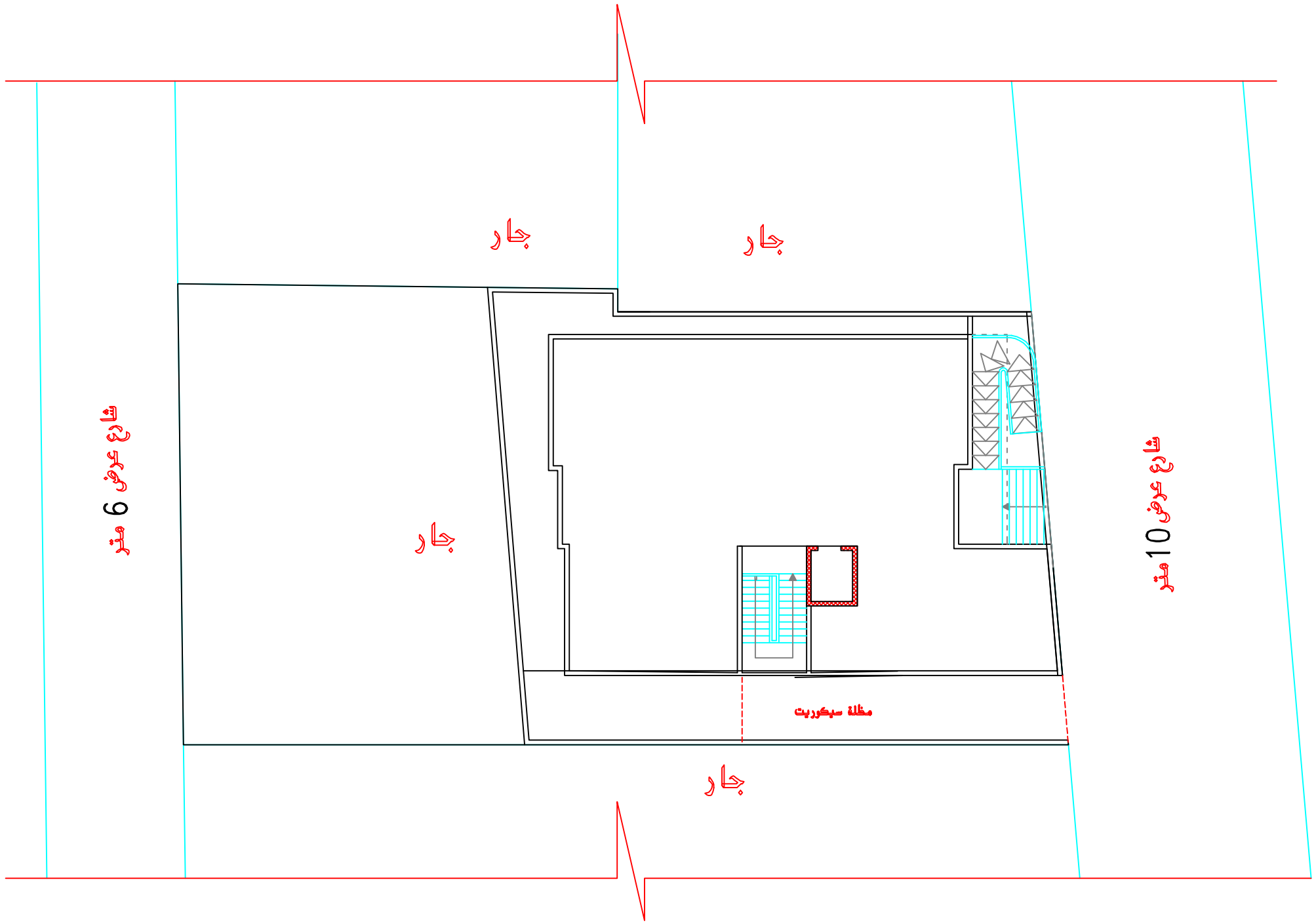

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
الموقع الخاص

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
A 0 1	As Shown	Nov. 2014

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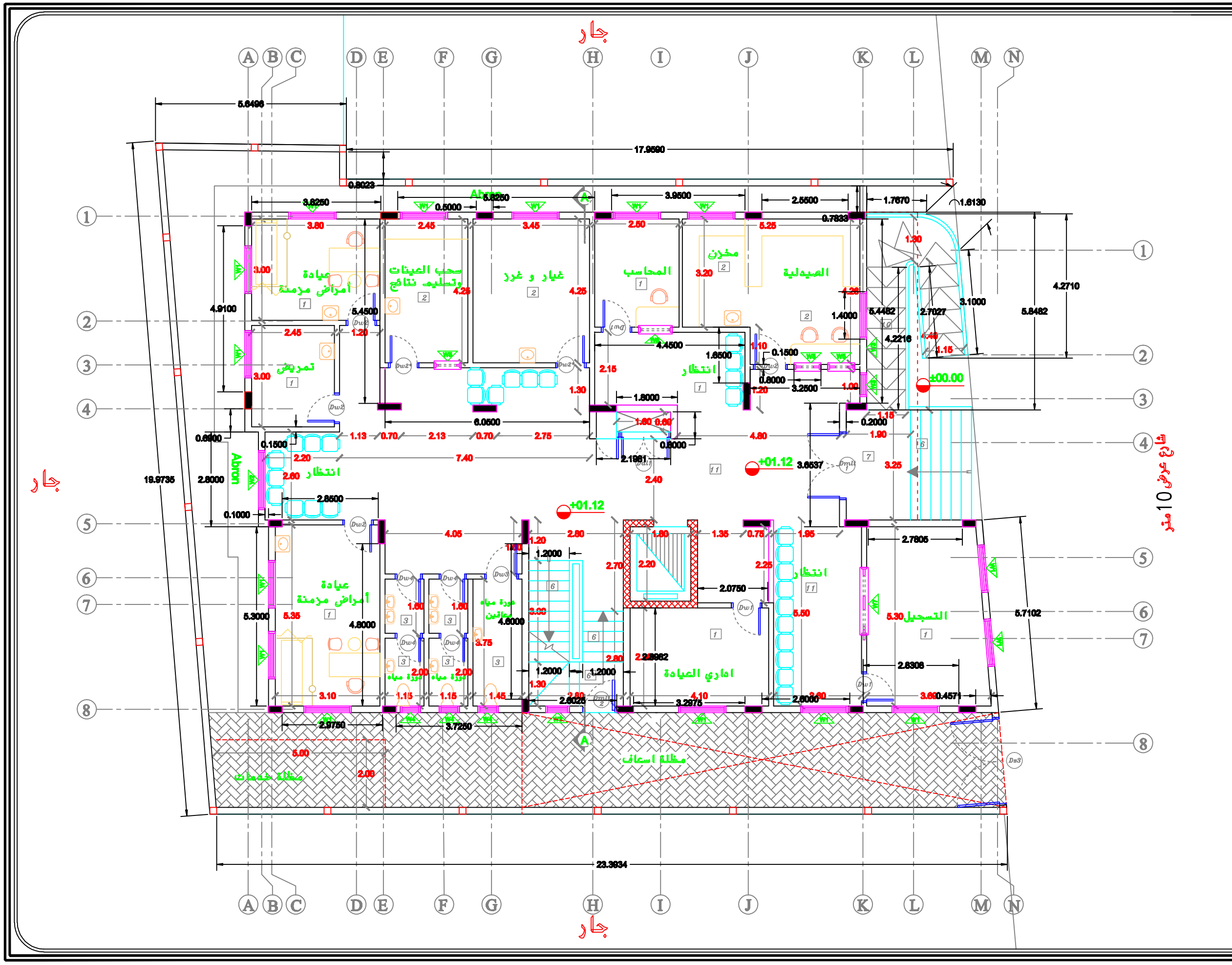

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PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
الطابق الأرضي

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
A	0	3	As Shown	Nov. 2014

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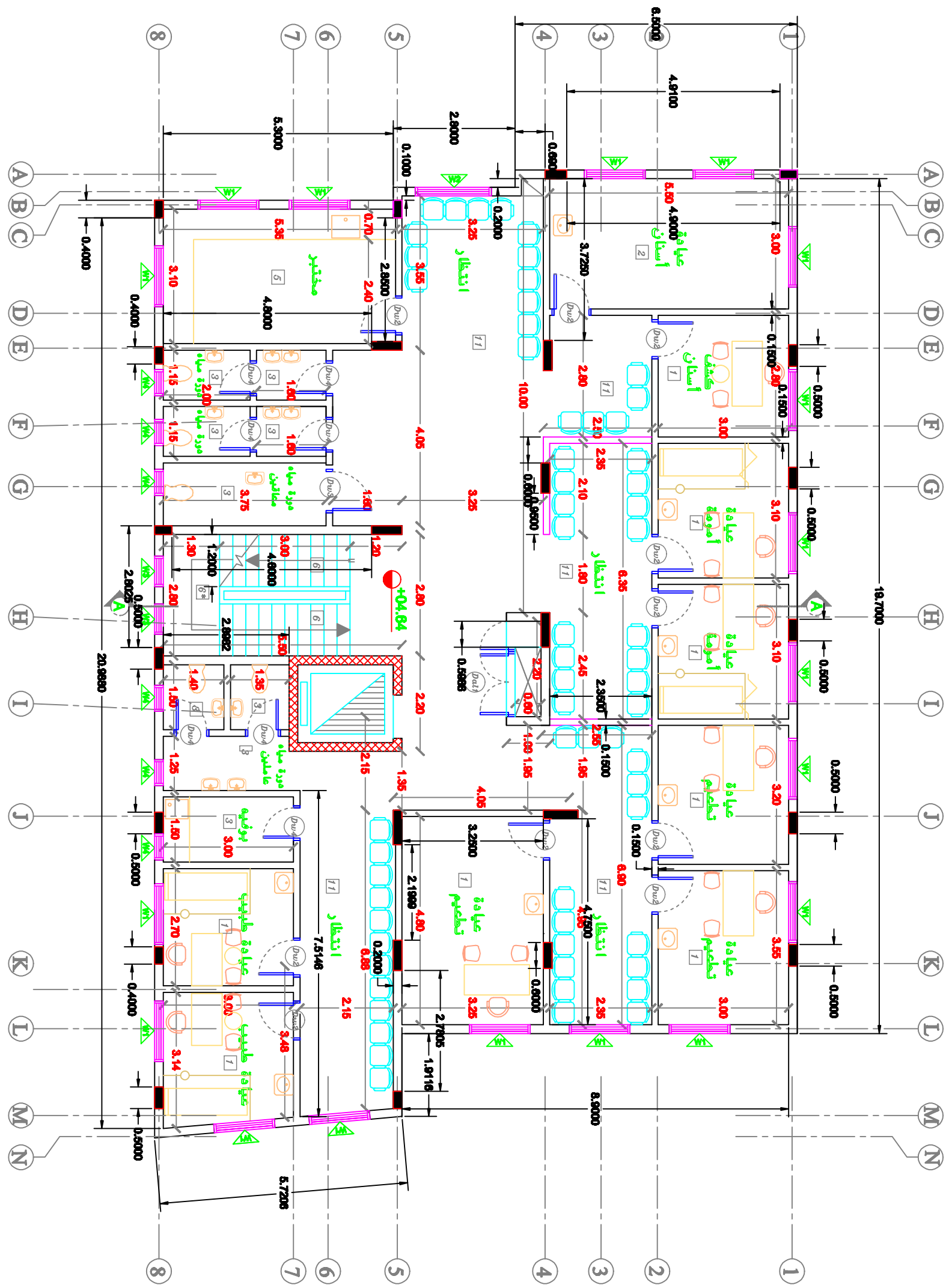

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MINISTRY OF HEALTH
ENG. & MAINTENANCE
ADMINISTRATION
ENG. OFFICE
& DEVELOPMENT DEPARTM

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
المخطط الأول

Architect:
EMAN ELHALLAQ SALWA A
HANAN ABDEL AL SHAYMA

Civil:

Electrical:

Mechanical:

Director of Engineering
&Development Departme
ENG. MOHAMMAD ABU HAYD

General Director of
Engineering & Maintena
ENG. BASSAM ALHNADEEN

DRAWING NO.	SCALE
A 0 4	As Shown

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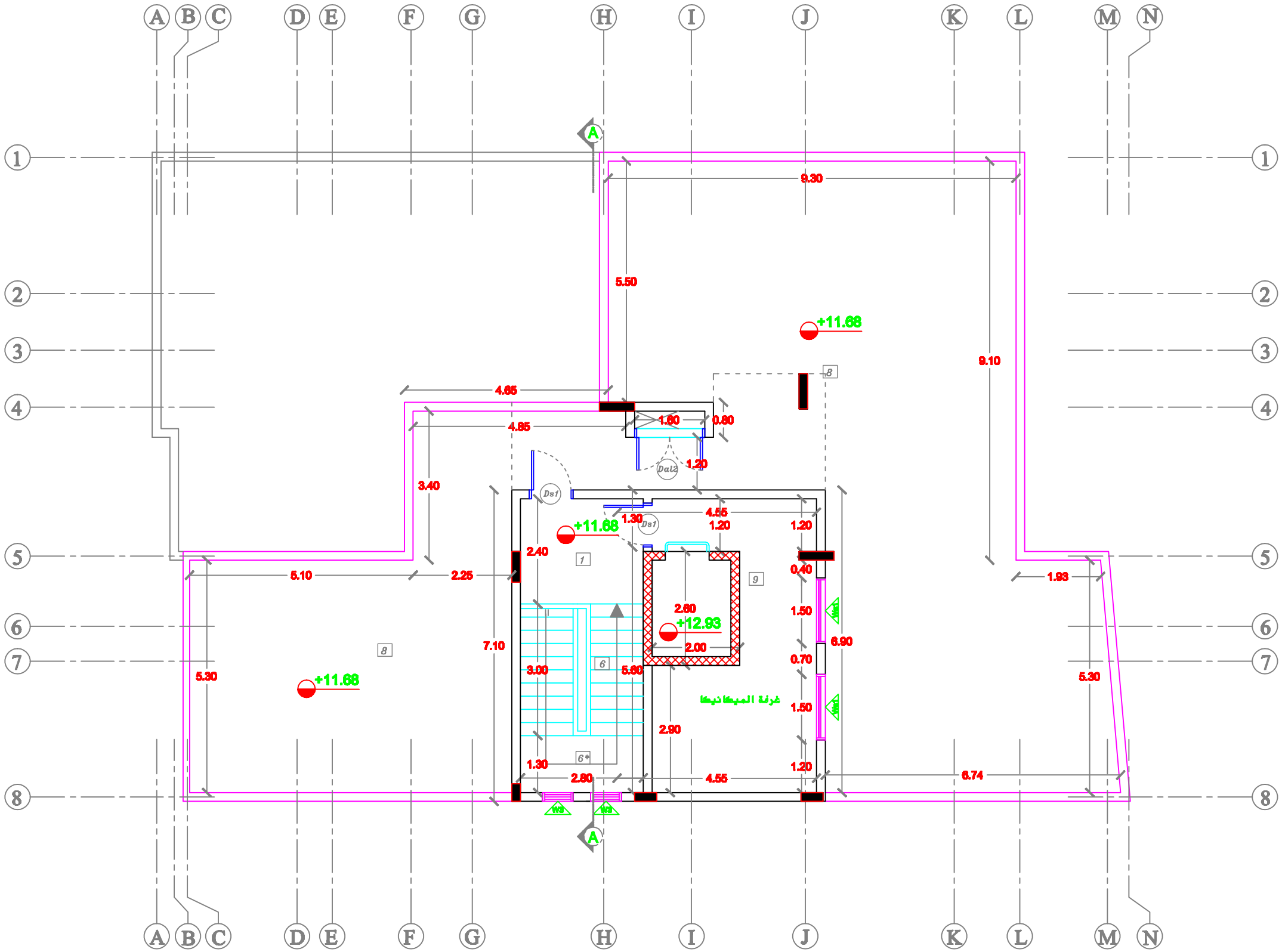

PALESTINIAN NATIONAL AUTHORITY
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NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
طابق السطح

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
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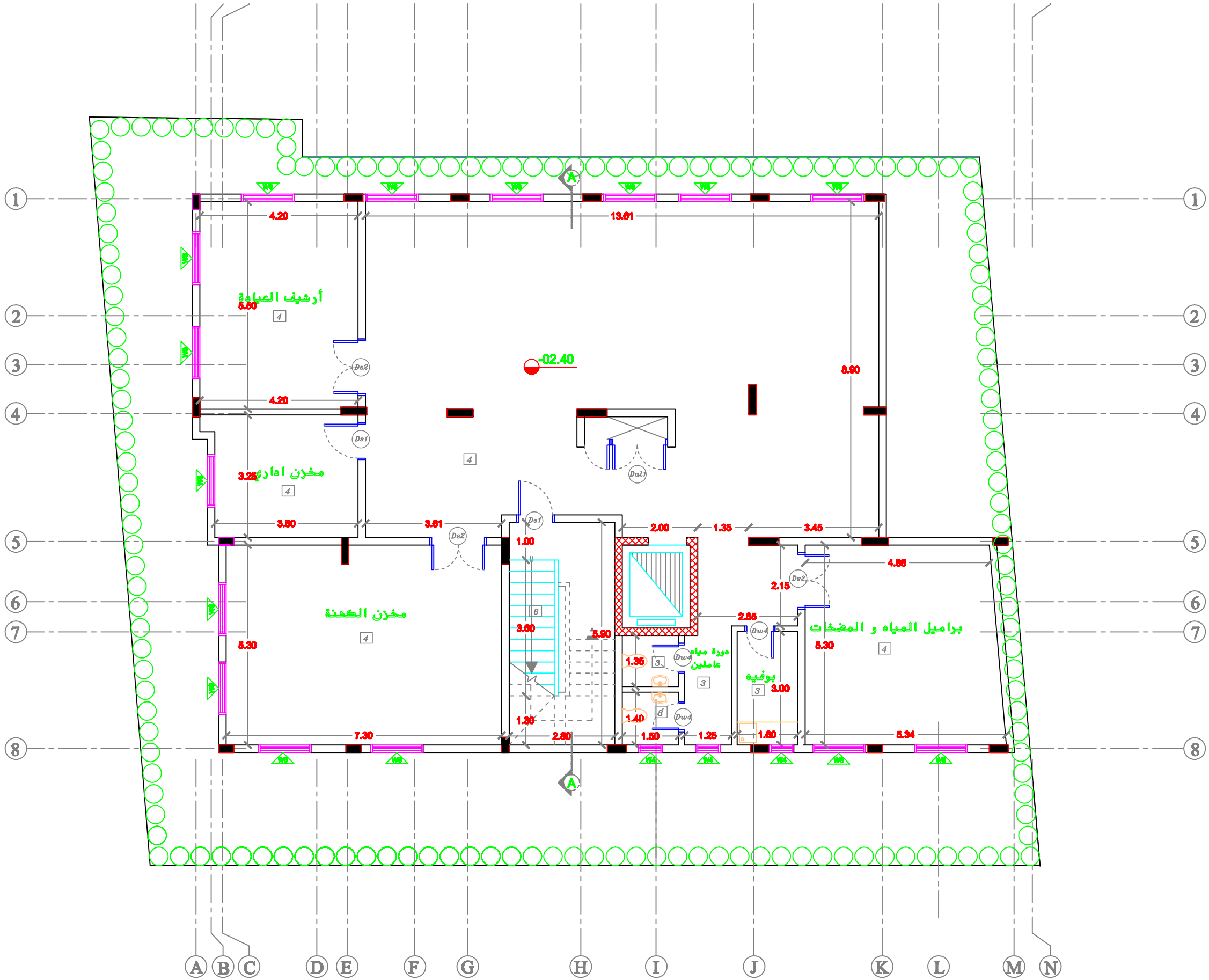

PALESTINIAN NATIONAL AUTHORITY
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NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
طابق التحت أرضي

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:

Director of Engineering Office &Development Department:
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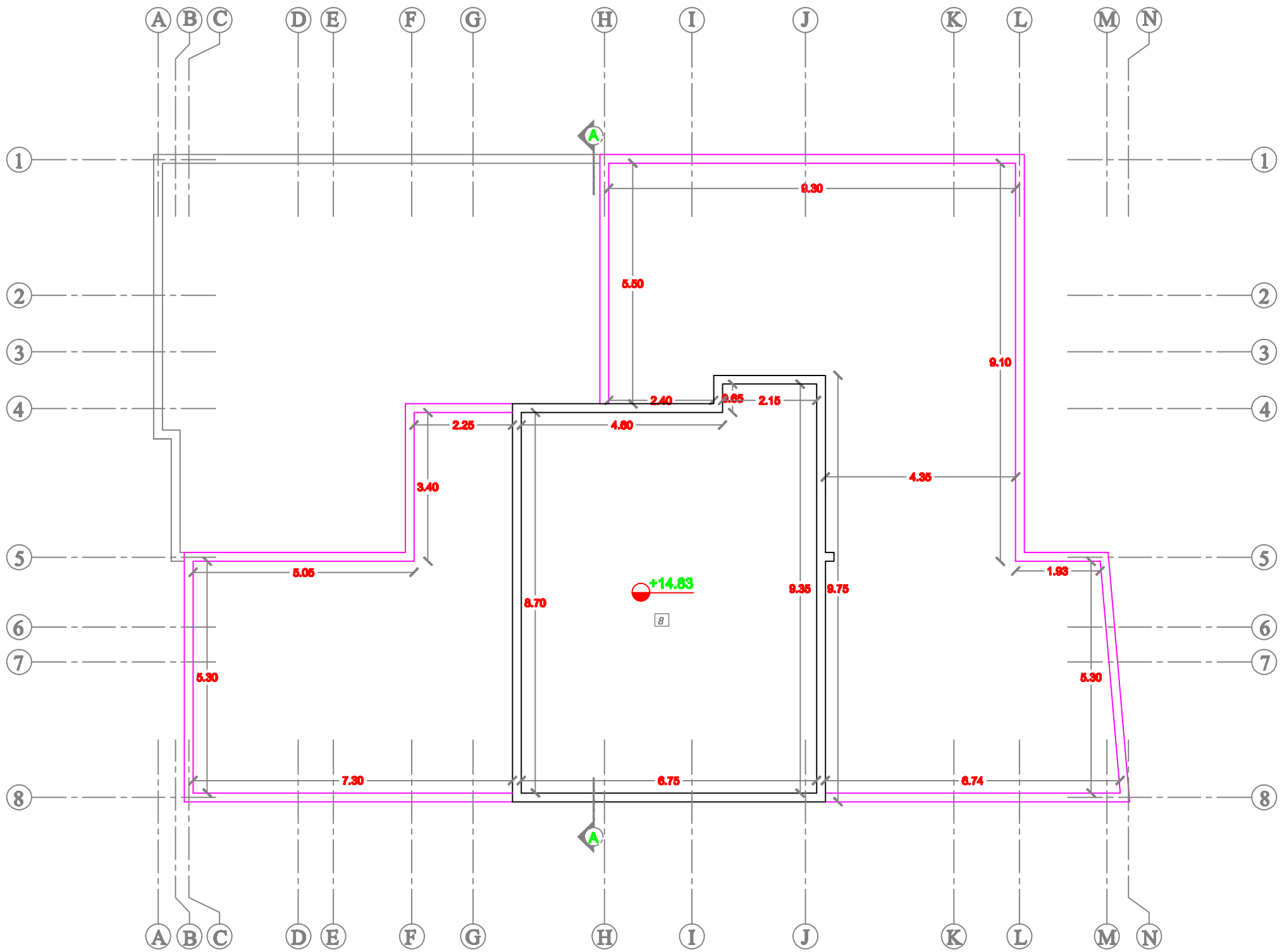

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NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
السطح الأخير

Architect:
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Civil:

Electrical:

Mechanical:

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DRAWING NO.	SCALE	DATE
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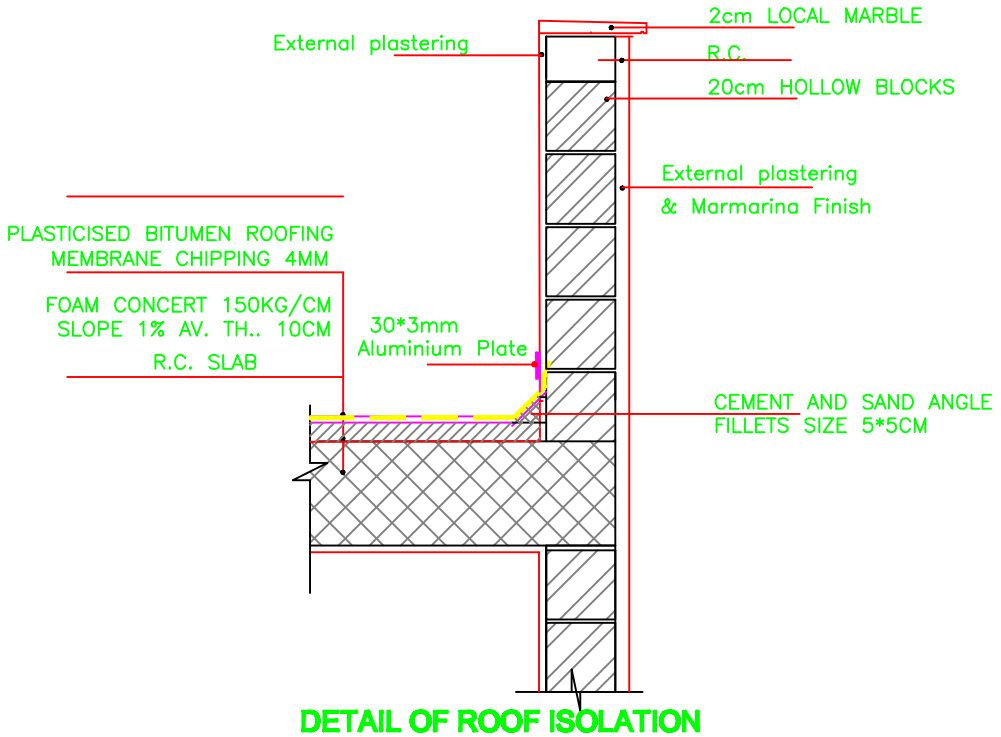
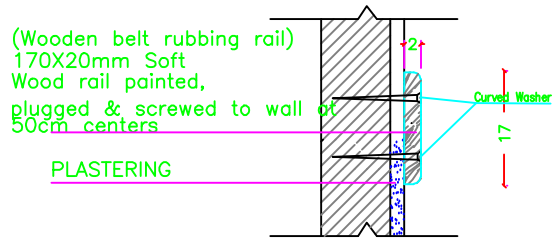
DETAIL OF ROOF ISOLATION



DETAIL OF ROOF ISOLATION & EXTERNAL FINISHING

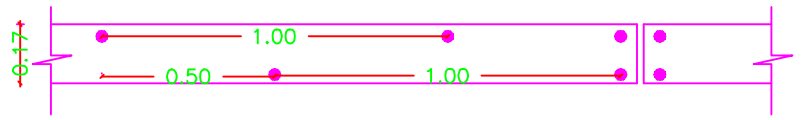
scale 1:20

WOODEN RUBBING RAIL DETAILS



WOODEN RUBBING RAIL DETAIL

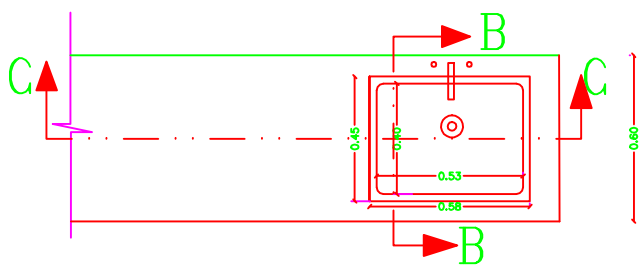
scale 1:20



Elevation

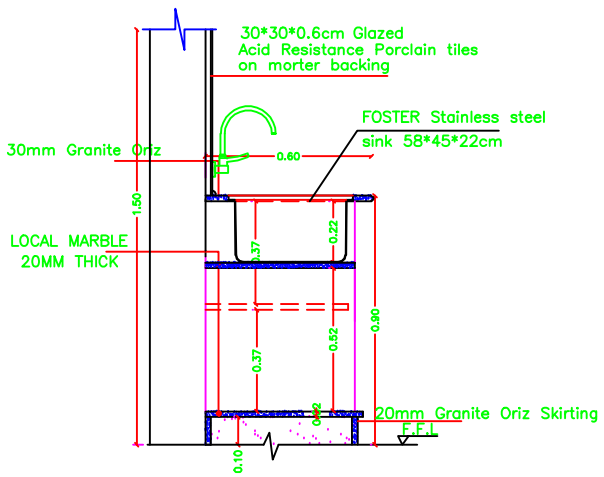
scale 1:20

LABORATORY DETAILS



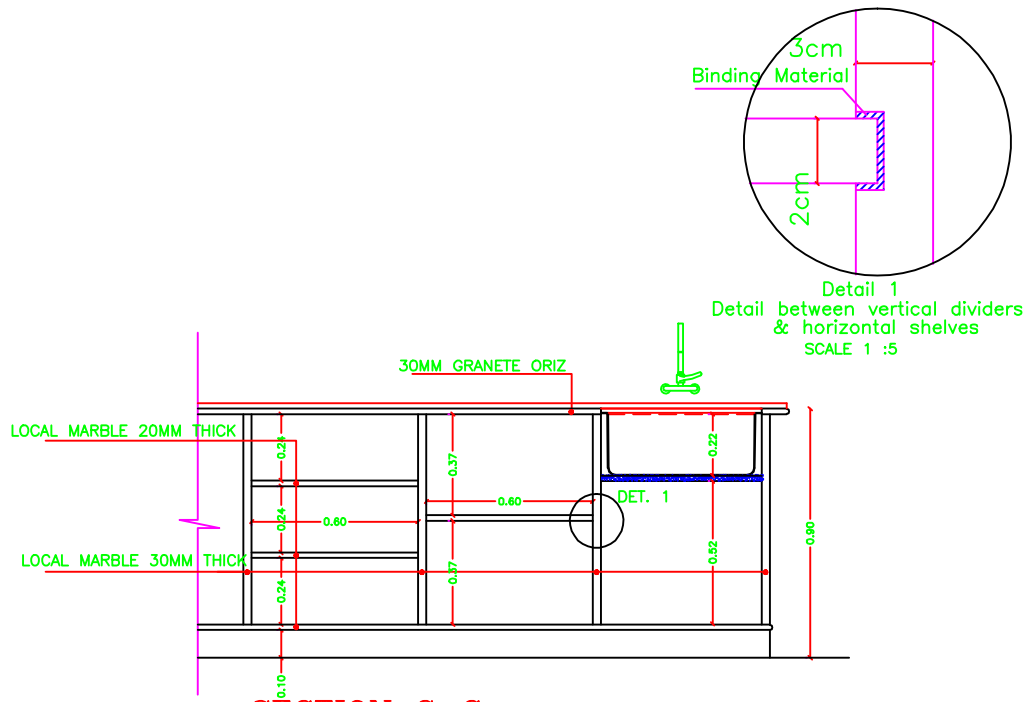
PLAN For work top of the lab.

SCALE 1 :25



SECTION B–B
For work top of the lab.

SCALE 1 :25



SECTION C–C
For work top of the lab.

SCALE 1 :25

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MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

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عيادة عطا حبيب

DRAWING NAME:
تفاصيل الرخام و العزل

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
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DRAWING NO.	SCALE	DATE
A D 7	As Shown	Nov. 2014

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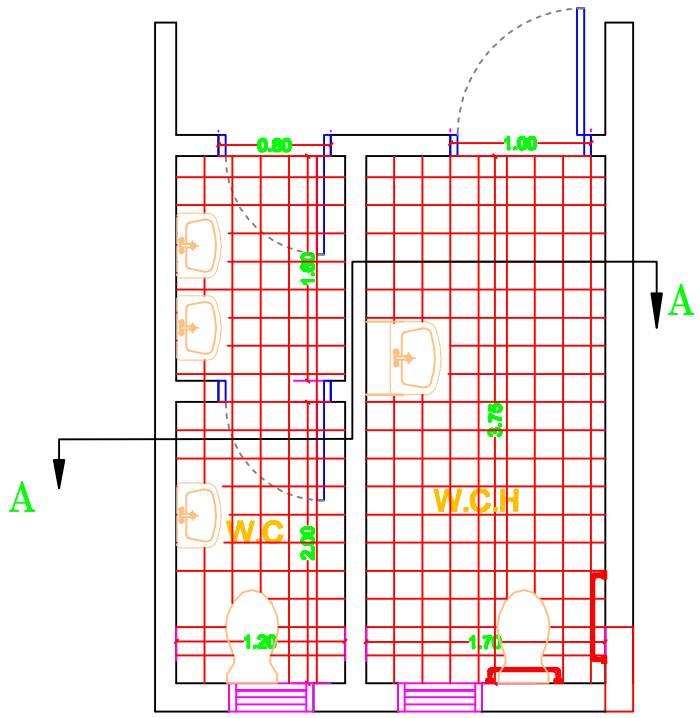
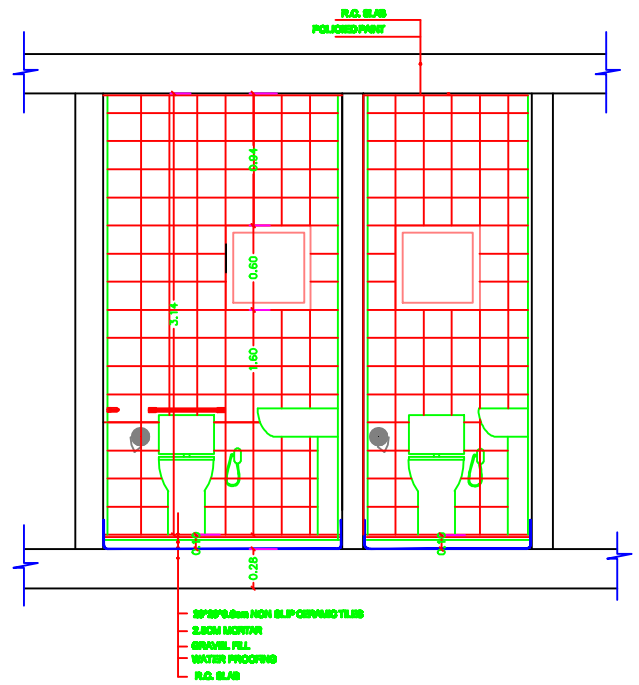
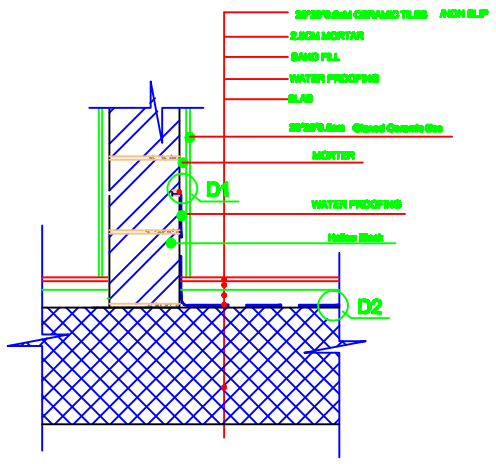
WCS DETAILS



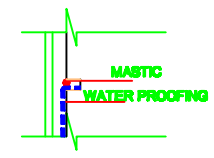


SECTION A–A
scale 1:50

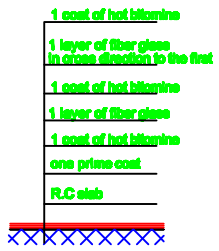
Water Proofing of Floors Details



scale 1:20



Detail 1



Detail 2

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
تفاصيل التبليطات و العزل

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
A D 6	As Shown	Nov. 2014

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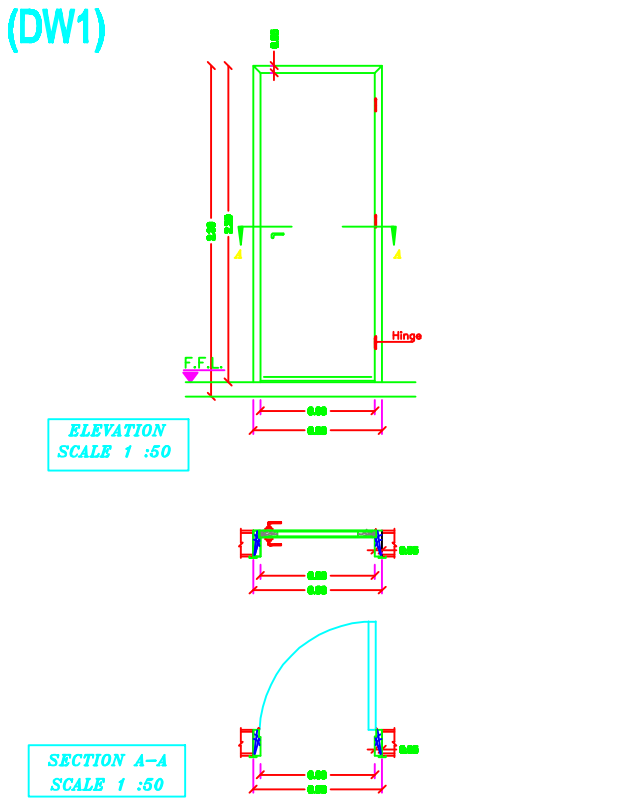
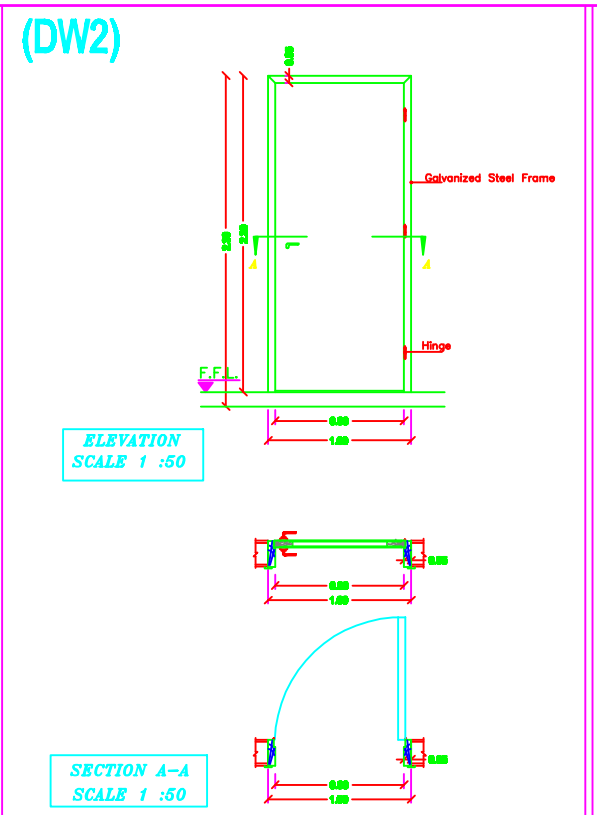
WOODEN DOORS DETAILS

(DW1)



(DW2)



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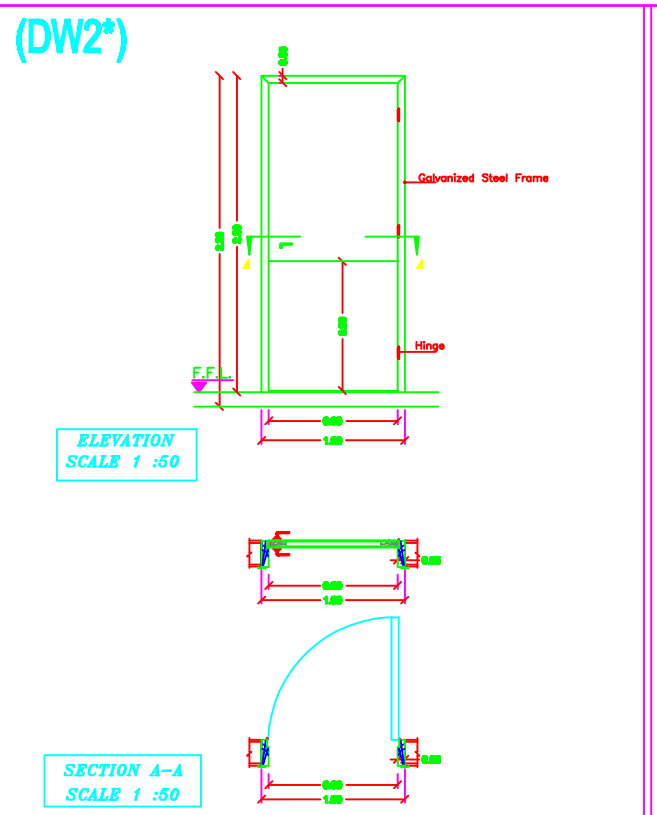

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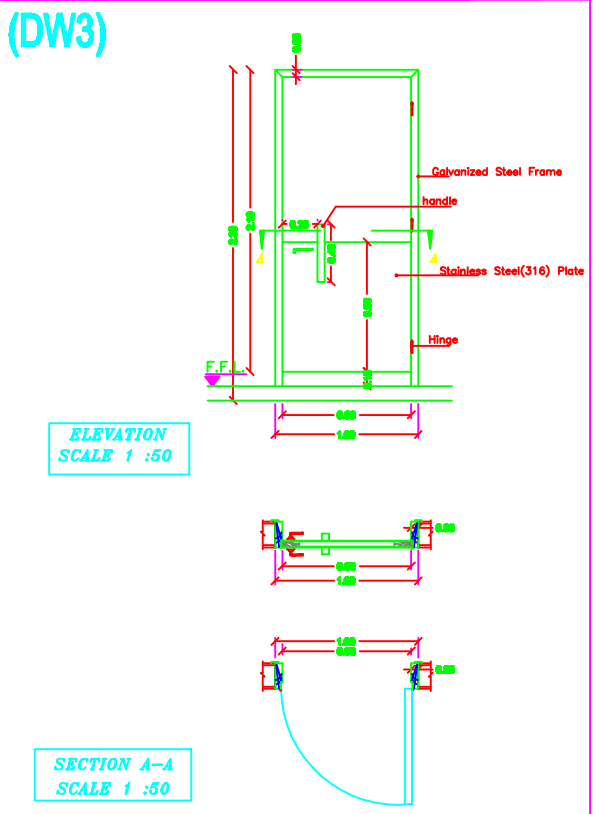
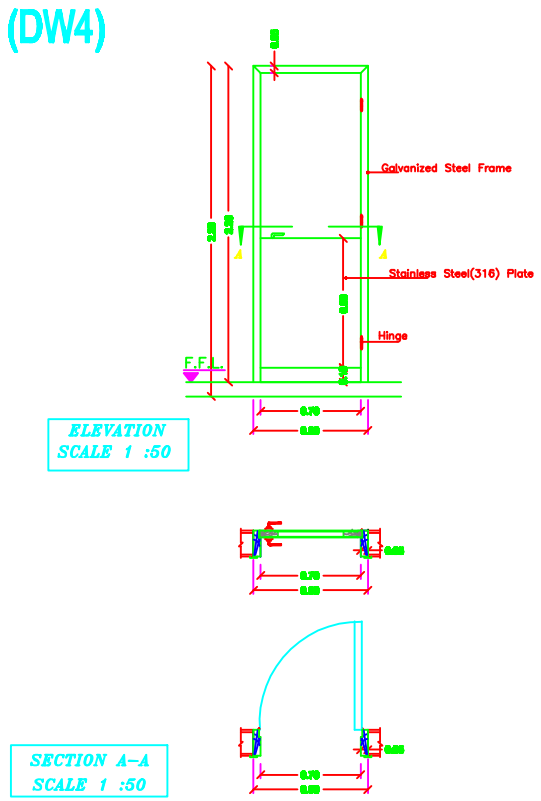


(DW4)



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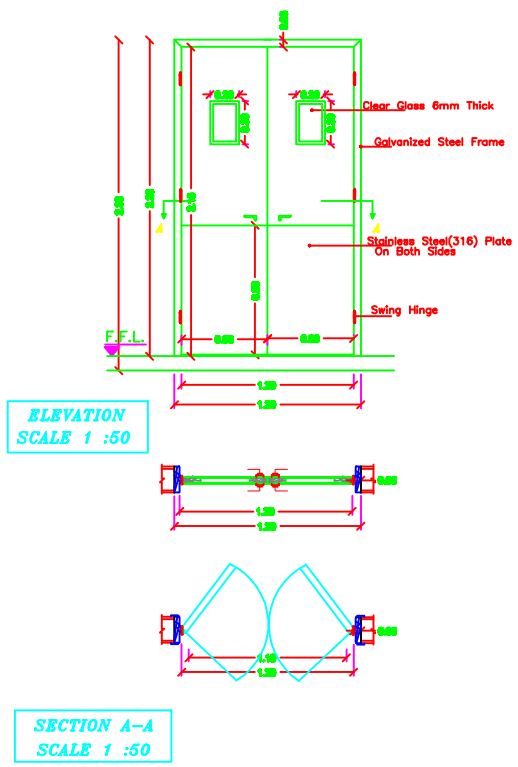

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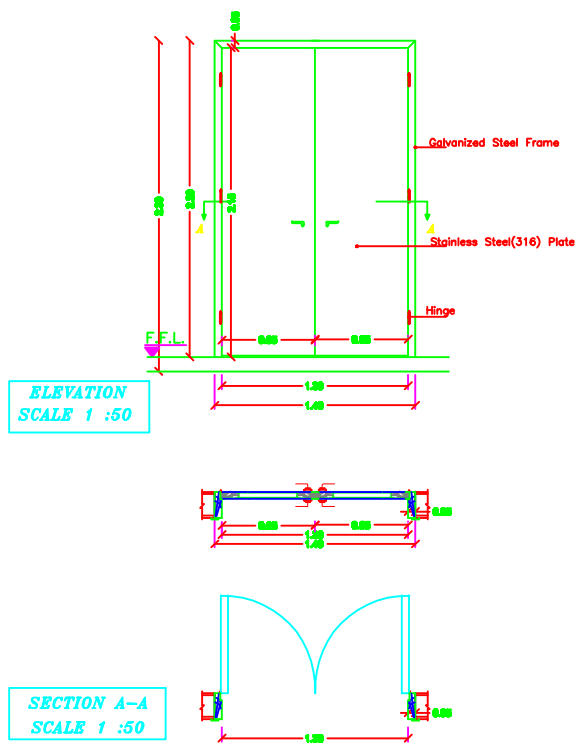

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
تفاصيل الأبواب ١

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RA

Civil:

Electrical:

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
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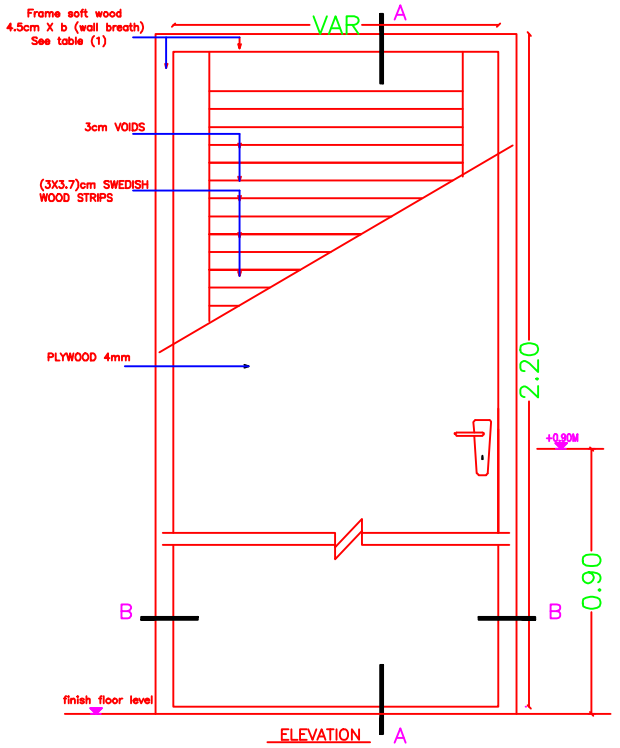
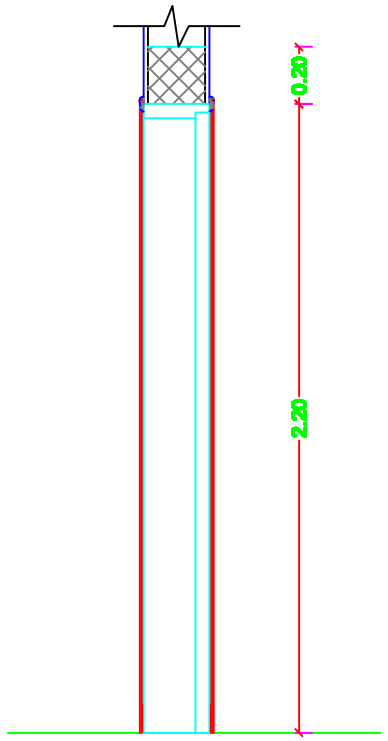
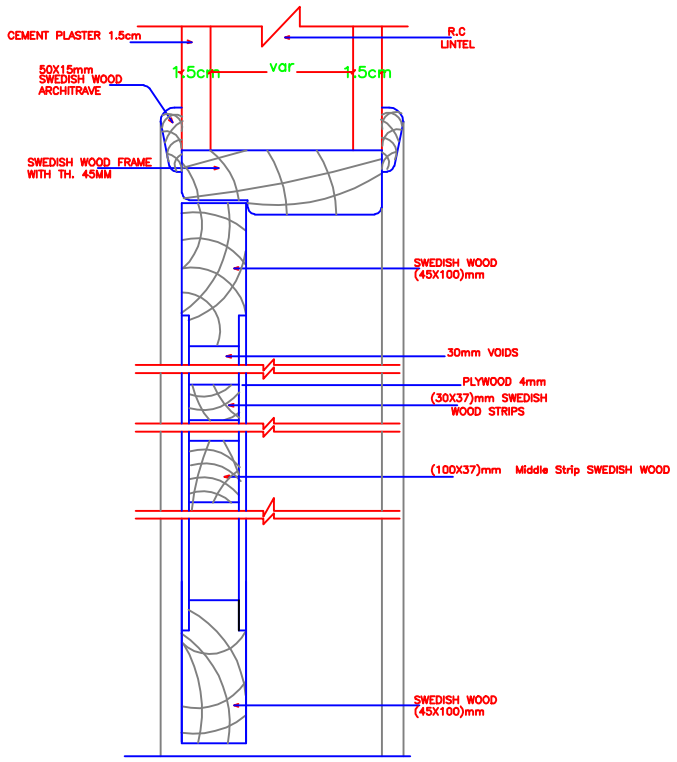
WOODEN DOORS DETAILS



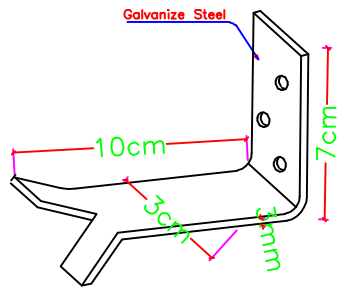
ELEVATION
Scale 1:50



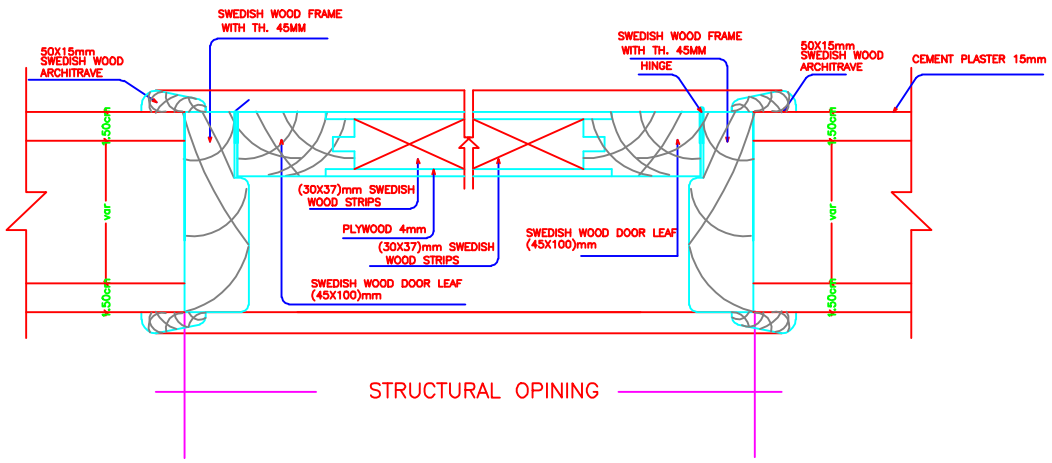
TYPICAL VERTICAL WOODEN DOOR SECTION B-B
Scale 1:20



VERTICAL SECTION A-A
Scale 1:50



TIMBER DOOR FIXING (3 fram each side)
Scale 1:2



HORIZONTAL SECTION B-B
Scale 1:50

Table (1)

block wall thick (cm)	wall breath (b) cm		
	both sides plaster	one side block & other ceramic	both sides ceramic
20	23	24	25
15	18	19	20
10	13	14	15

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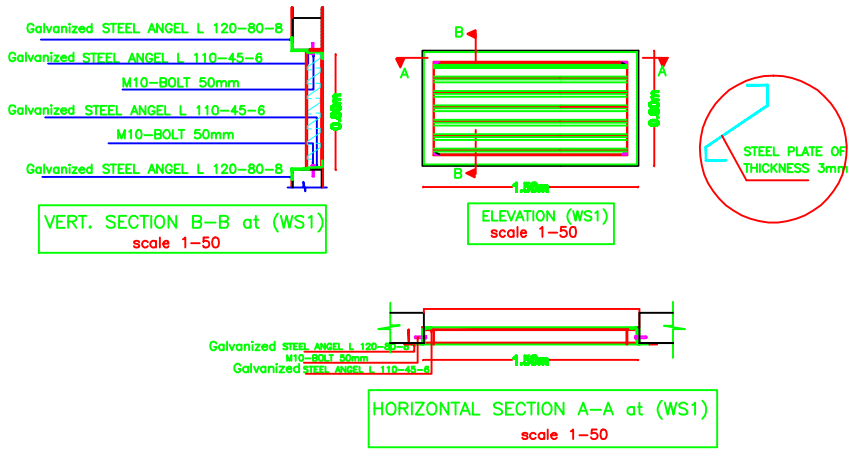
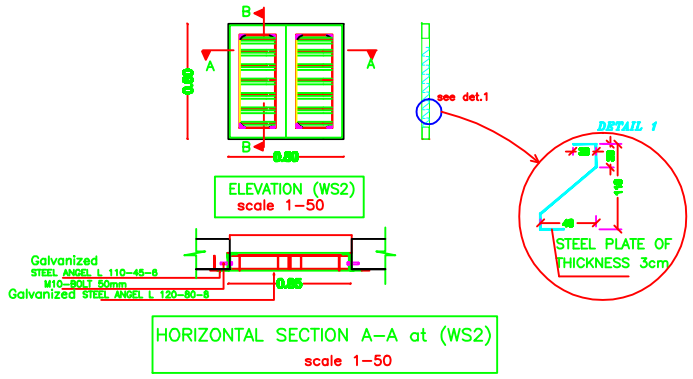
STEEL WINDOWS

(Ws1)

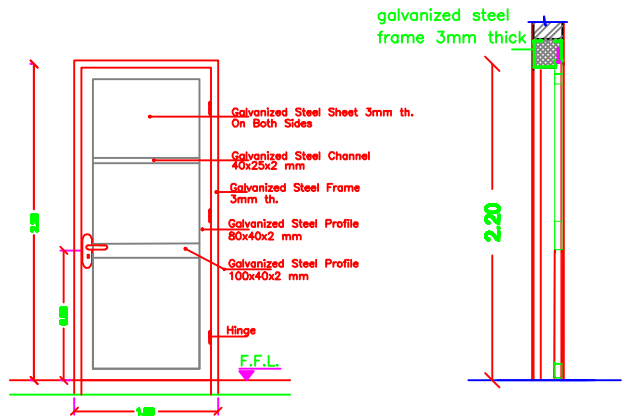


(ws2)

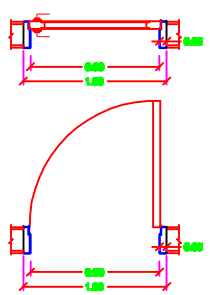


STEEL DOOR

(DS1)



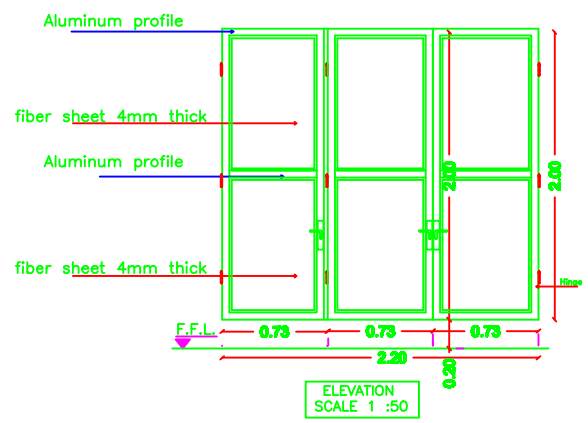
ELEVATION
SCALE 1 :50



SECTION A-A
SCALE 1 :50

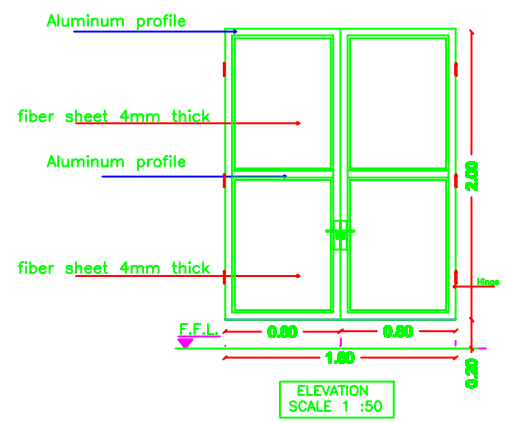
ALUMINUM DOORS

(DAL1)



ELEVATION
SCALE 1 :50

(DAL2)



ELEVATION
SCALE 1 :50

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
تفاصيل الأعمال المعدنية

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RA

Civil:

Electrical:

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
A D 3	As Shown	Nov. 2014

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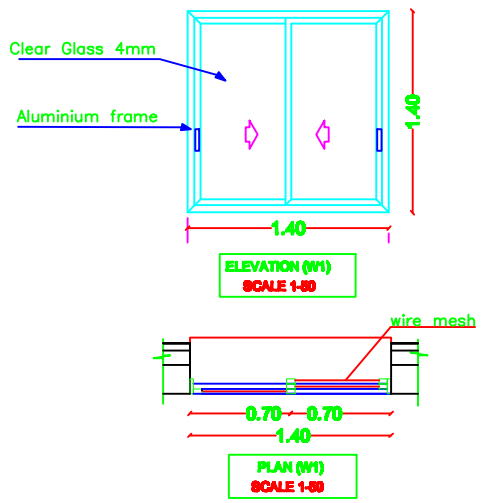
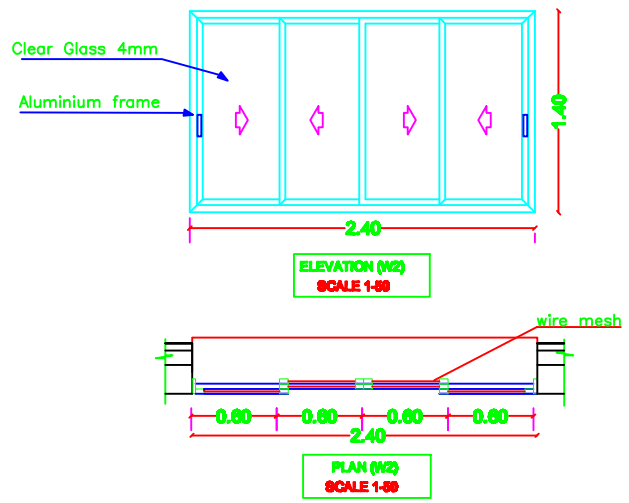
ALUMINUM WINDOWS DETAILS

(W1)



(W2)



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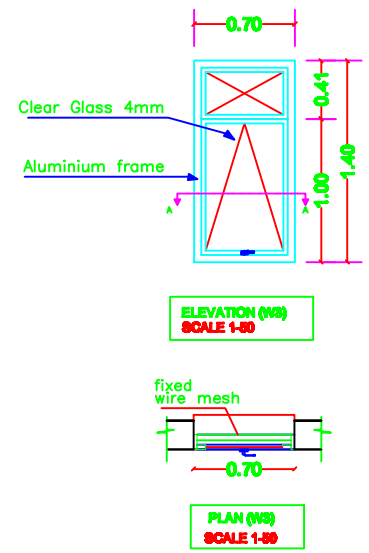

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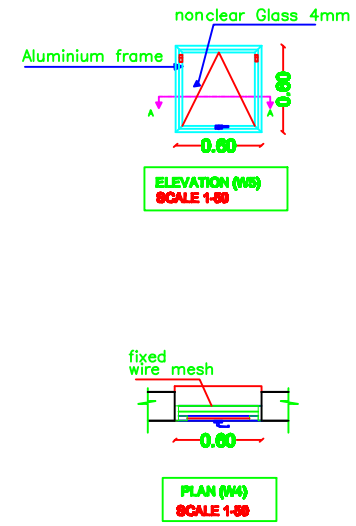

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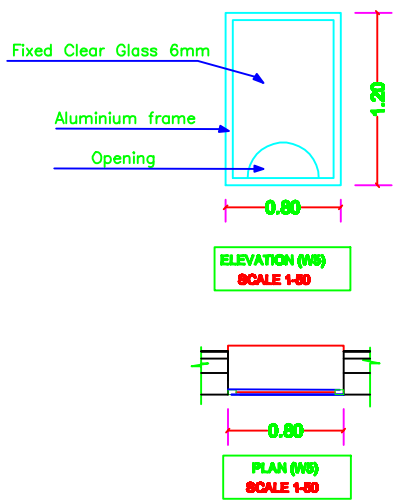

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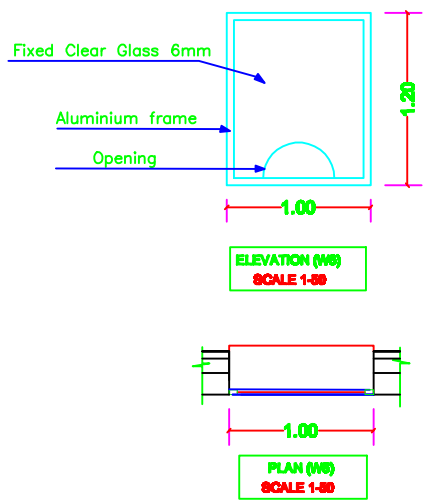

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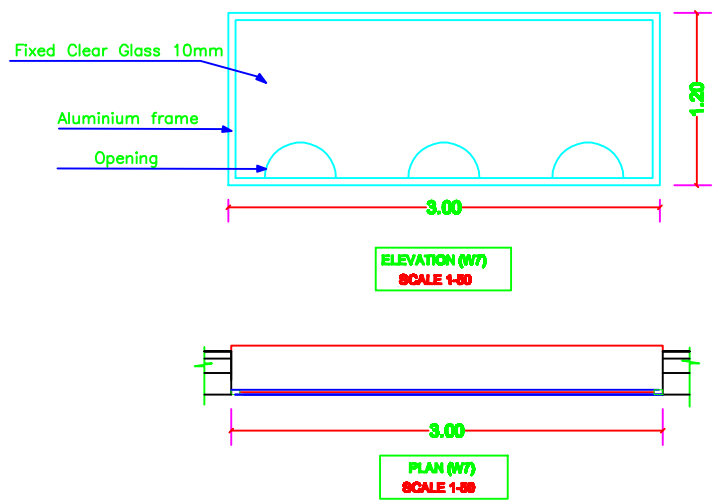

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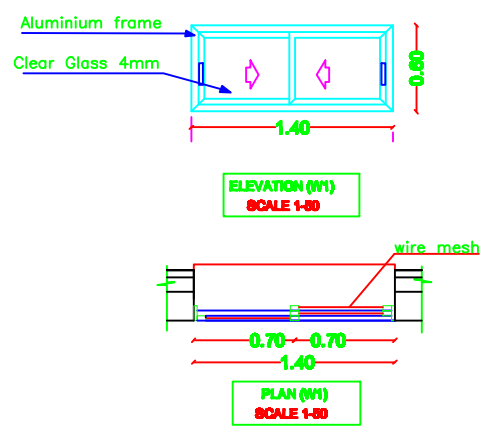

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
تفاصيل شبابيك ١

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RA

Civil:

Electrical:

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
A D 2	As Shown	Nov. 2014

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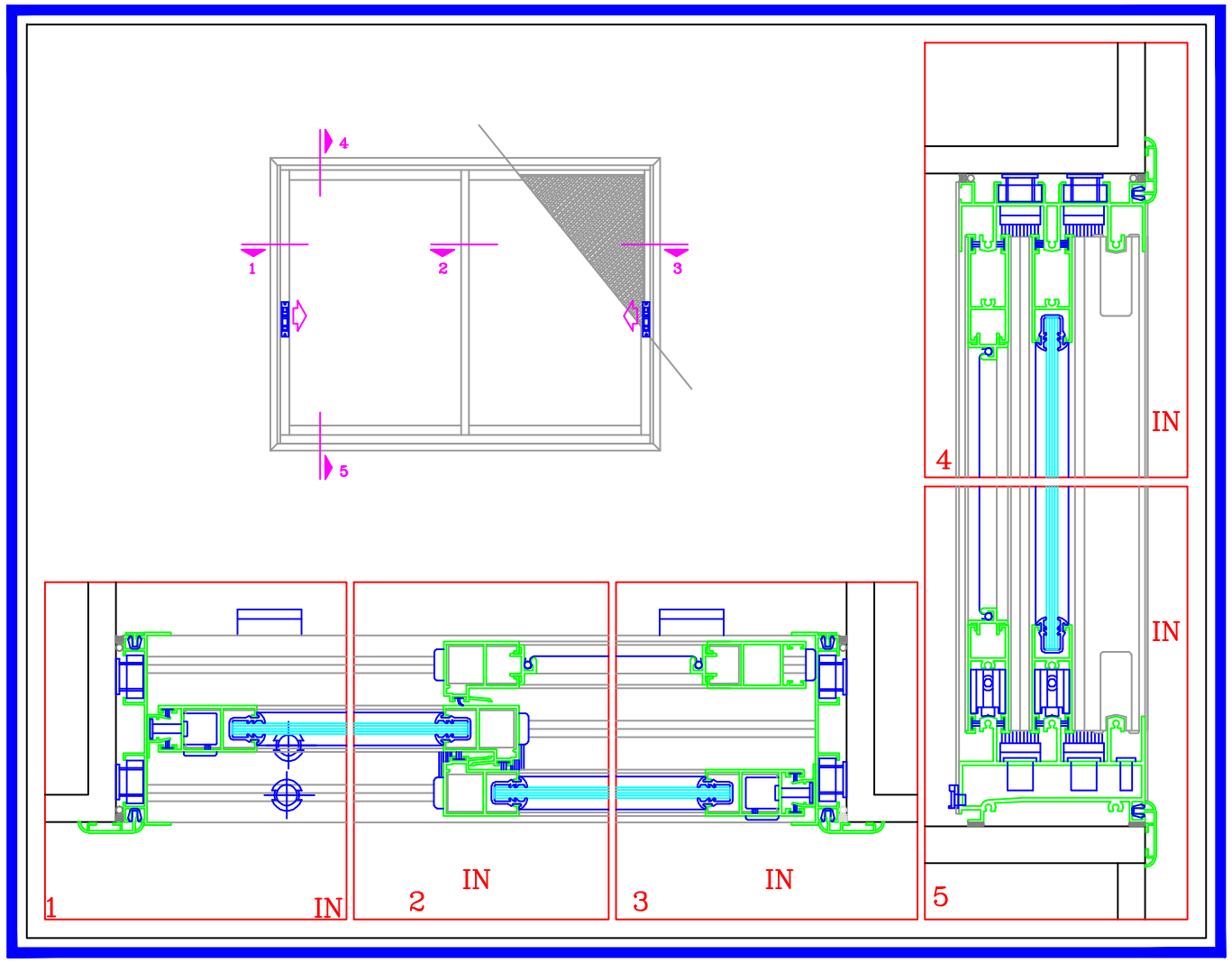
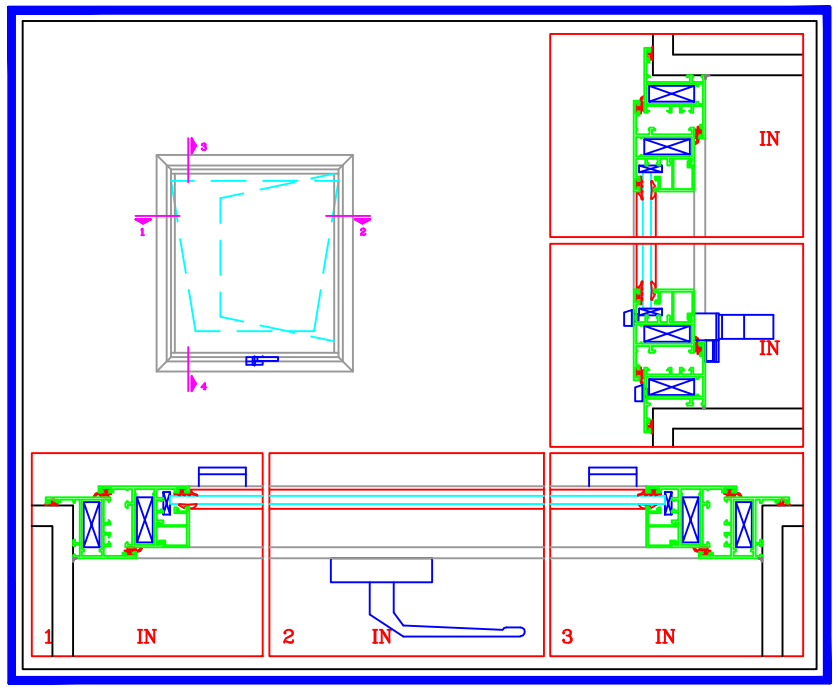
ALUMINUM WINDOWS DETAILS



DETAIL OF SLIDING WINDOW
(SCHEMATIC)
PROFILE7000



DETAIL OF HINGED WINDOW
(SCHEMATIC)
PROFILE4500

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

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عيادة عطا حبيب

DRAWING NAME:
تفاصيل شبابيك

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
A	D	1	As Shown	Nov. 2014

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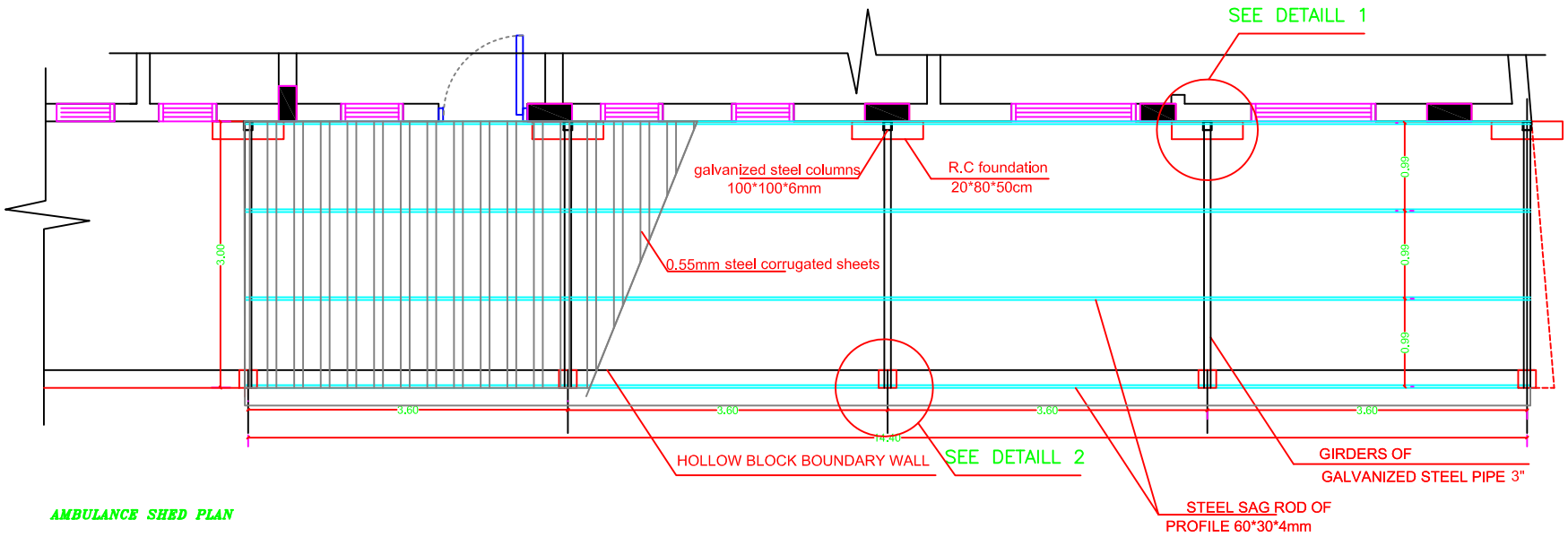
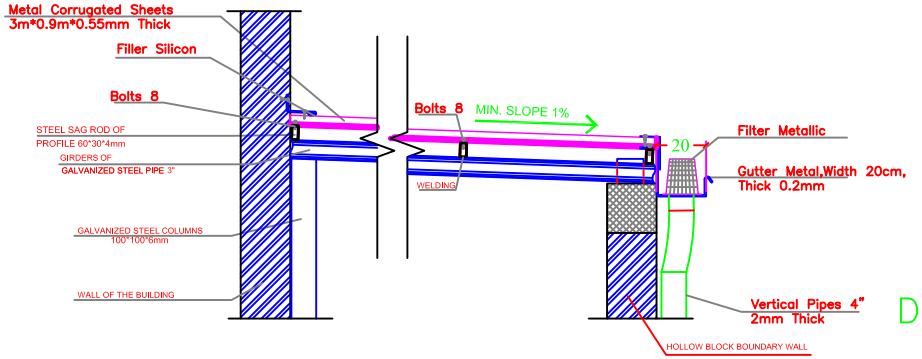
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



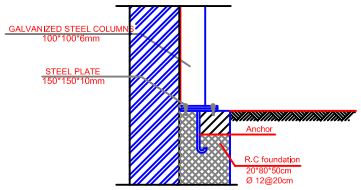
AMBULANCE SHED PLAN

SCALE 1 :50



DETAIL 1

DETAIL 2



AMBULANCE SHED DETAIL

SCALE 1 :5

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
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ENG. OFFICE & DEVELOPMENT DEPARTMENT

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عيادة عطا حبيب

DRAWING NAME:

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

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ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
A	D	7	As Shown	Nov. 2014

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التفاصيل المعمارية

ARCHITECTURAL DETAILS

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PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

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جدول الشبابيك الالومنيوم

الفتحة الانشائية				
رقم الشباك	الارتفاع	العرض	الوصف	رسم توضيحي
W1	1.40	1.40	شباك الومنيوم سحاب ضلفتين مع زجاج شفاف 4mm وضلفة شبك نملي سحاب داخلي وحديد حماية لشبابيك الدور الأرضي	
W2	1.40	1.75	شباك الومنيوم سحاب ضلفتين مع زجاج شفاف 4mm وضلفتين شبك نملي سحاب داخلي وحديد حماية لشبابيك الدور الأرضي	
W3	1.40	0.70	ضلفة علوية ثابتة و ضلفة سفلية قلاب مع زجاج شفاف 4mm وحديد حماية لشبابيك الدور الأرضي	
W4	0.60	0.60	شباك الومنيوم قلاب مع زجاج غير شفاف 4mm وحديد حماية لشبابيك الدور الأرضي	
W5	1.20	0.80	شباك الومنيوم ثابت وزجاج شفاف سمك 6mm مع فتحة استعلام و مع حديد حماية	
W6	1.20	1.00	شباك الومنيوم ثابت وزجاج شفاف سمك 6mm مع فتحة استعلام	
W7	1.20	3.00	شباك الومنيوم ثابت وزجاج شفاف سمك 10mm مع ٣ فتحات استعلام	
W8	1.40	0.60	شباك الومنيوم سحاب ضلفتين مع زجاج شفاف 4mm وضلفة شبك نملي سحاب داخلي وحديد حماية لشبابيك الطابق تحت أرضي	

جدول الشبابيك المعدنية

الفتحة الانشائية					
رقم الشباك	الارتفاع	العرض	الوصف	رسم توضيحي	ملاحظات
Ws1	0.80	1.50	شباك حديد مجلفن (لوفر)		في غرف الميكانيكا
Ws1	0.80	0.80	شباك حديد مجلفن (لوفر) ضلفتين		في غرف الميكانيكا

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
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ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
جدول الشبابيك

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
A 1 5	As Shown	Nov. 2014

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جدول الابواب الخشبية

رقم الباب	الفتحة الانشائية: الارتفاع	الفتحة الانشائية: العرض	نوع المفصلات والاقفال	الوصف	رسم توضيحي
Dw1	2.30	0.90	من نوع والي (WALLY) او ما يماثله	باب خشب كبس ضلفة واحدة	
Dw2	2.30	1.00	من نوع والي (WALLY) او ما يماثله	باب خشب كبس ضلفة واحدة	
Dw2*	2.30	1.00	من نوع والي (WALLY) او ما يماثله	باب خشب كبس ضلفة واحدة مع شريحة نورستا 90 cm	
Dw3	2.30	1.00	من نوع والي (WALLY) او ما يماثله	باب خشب كبس ضلفة واحدة مع شريحة نورستا 90cm من الجهتين والضلفة مرفوعة عن الارض 10cm ومزودة بمقبض لاستخدام المعاقين	
Dw4	2.30	0.80	من نوع والي (WALLY) او ما يماثله	باب خشب كبس ضلفة واحدة مع شريحة نورستا 20cm من الجهتين والضلفة مرفوعة عن الارض 10cm	
Dw5	2.30	1.30	من نوع والي (WALLY) او ما يماثله	باب خشب كبس ضلفتين مروحة مع شرائح نورستا 90cm من الجهتين وفتحات زجاجية 20*30cm	
Dw6	2.30	1.40	من نوع والي (WALLY) او ما يماثله	باب خشب كبس ضلفتين	

جدول أبواب الألمونيوم

رقم الباب	الفتحة الانشائية: الارتفاع	الفتحة الانشائية: العرض	نوع المفصلات والاقفال	الوصف	رسم توضيحي
DAL1	2.00	2.20	مشمولة في الأبواب	باب ألومنيوم ثلاث ضلفة مرفوع عن الأرض 20 cm	
DAL2	2.00	1.60	مشمولة في الأبواب	باب ألومنيوم ضلفتين مرفوع عن الأرض 20 cm	

جدول الأبواب المعدنية

رقم الباب	الفتحة الانشائية: الارتفاع	الفتحة الانشائية: العرض	نوع المفصلات والاقفال	الوصف	رسم توضيحي
Dmlt1	2.30	2.00	مشمولة في الأبواب	باب Multi-Lock 408 ضلفتين مقاوم للحريق	
Ds1	2.30	2.00	من نوع والي (WALLY) او ما يماثله	باب حديد مجلفن ضلفتين داخلي	
Ds2	2.30	1.50	من نوع والي (WALLY) او ما يماثله	باب حديد مجلفن ضلفتين خارجي	

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ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
جدول الأبواب

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
A 1 4	As Shown	Nov. 2014

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جدول التشطيبات

الرقم	الموقع	التشطيبات			
		الارضيات	البانيل	الجدران	الاسقف
1	المكاتب غرف العيادات قاعة المحاضرات	بلاط كسر رخام 30*30*3cm	بانيل كسر رخام 30*7*1cm	دهان زيت مطفي بارتفاع 1.60 متر والباقي دهان سوبر كريل	دهان بوليسيه
2	صيدلية طب أسنان غرفة الاستقبال سحب عينات العناية اليومية حقن وغيار وغرز	بلاط كسر رخام 30*30*3cm	————	سيراميك حوائط اسباني كامل الارتفاع	دهان بوليسيه
3	دورات المياه والمغاسل البوفيه	سيراميك أرضيات اسباني أبيض 20*20*0.6cm	————	سيراميك حوائط اسباني أبيض 20*20*0.5cm بكامل الارتفاع	دهان بوليسيه
4	المخازن الطابق تحت أرضي	بلاط كسر رخام 30*30*3cm	بانيل كسر رخام 30*7*1cm	دهان سوبر كريل بكامل الارتفاع	دهان بوليسيه
5	مختبر	بلاط بورسلان مقاوم للأحماض و الانزلاق اسباني نخب أول	————	بلاط بورسلان مقاوم للأحماض اسباني نخب أول كامل الارتفاع مقاس 30cm*30cm*0.6cm	دهان بوليسيه
6	درجات المدخل والدرج الرئيسي	رخام نوع روزابيتا سمك 3cm	رخام نوع روزابيتا سمك 2cm بارتفاع متوسط 18 cm من الجانبين	سيراميك حوائط اسباني نخب أول ارتفاع 1.20m والباقي دهان سوبر كريل	دهان بوليسيه
6*	بسطات الدرج الرئيسي	رخام نوع روزابيتا سمك 3cm	رخام نوع روزابيتا سمك 2cm بارتفاع 10cm	دهان زيت مطفي بارتفاع 1.60m والباقي دهان سوبر كريل	دهان بوليسيه
7	بسطة المدخل	رخام نوع روزابيتا سمك 3cm	————	مرمرينا + جرانيوليت	دهان بوليسيه
8	السطح	خرسانة ميول مع بولوبيه لعزل السطح	وزرات من البولوبيه	قصارة خارجية مع رشقة ودهان خارجي للدروة	————
9	غرفة ماكينة المصعد	مدة خرسانية هليوكوبتر	————	دهان سوبركريل	دهان بوليسيه
10	الرامبات الخارجية	جرانوليت	————	جرانوليت	————
11	الممرات	بلاط كسر رخام 30*30*3cm	بانيل كسر رخام 30*7*1cm	سيراميك حوائط اسباني نخب أول بارتفاع 1.20 m والباقي سوبر كلير	دهان بوليسيه

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
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NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
جدول التشطيبات

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHIMADEEN

DRAWING NO.	SCALE	DATE
A 1 3	As Shown	Nov. 2014

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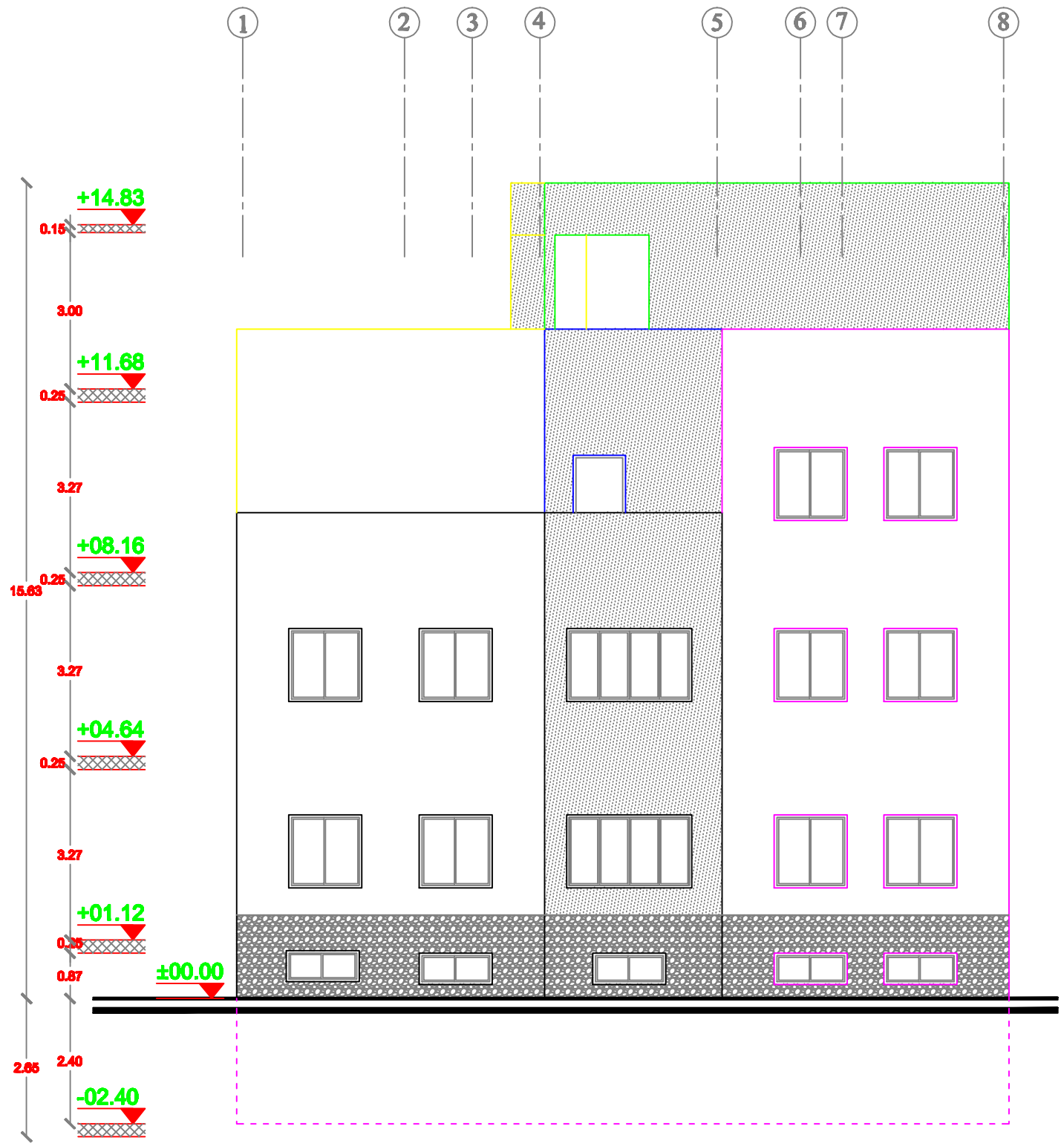

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ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
الواجهة الجنوبية الغربية

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
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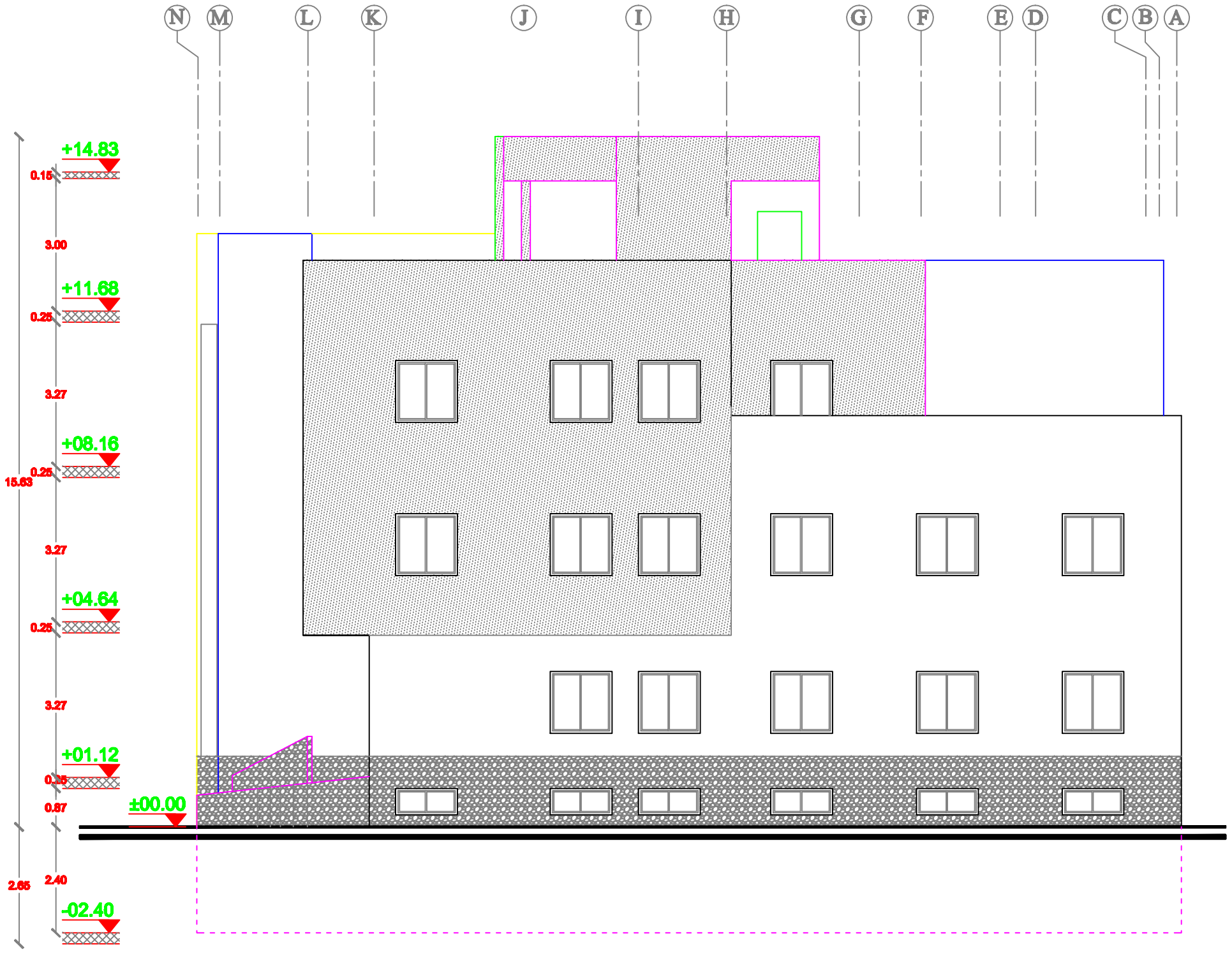

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Architect:
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General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
A	1	1	As Shown	Nov. 2014

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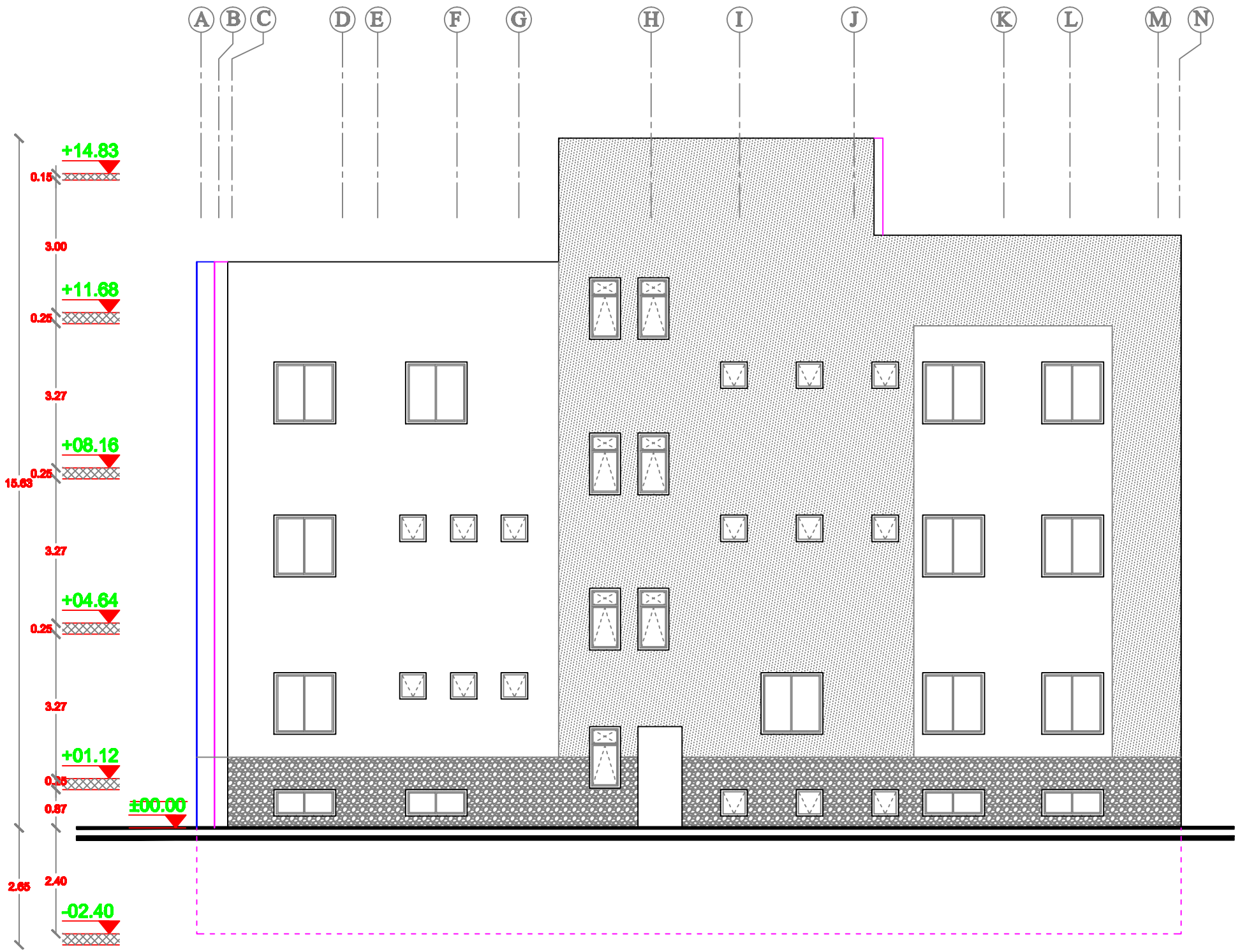

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
الواجهة الجنوبية الشرقية

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
A 1 0	As Shown	Nov. 2014

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PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

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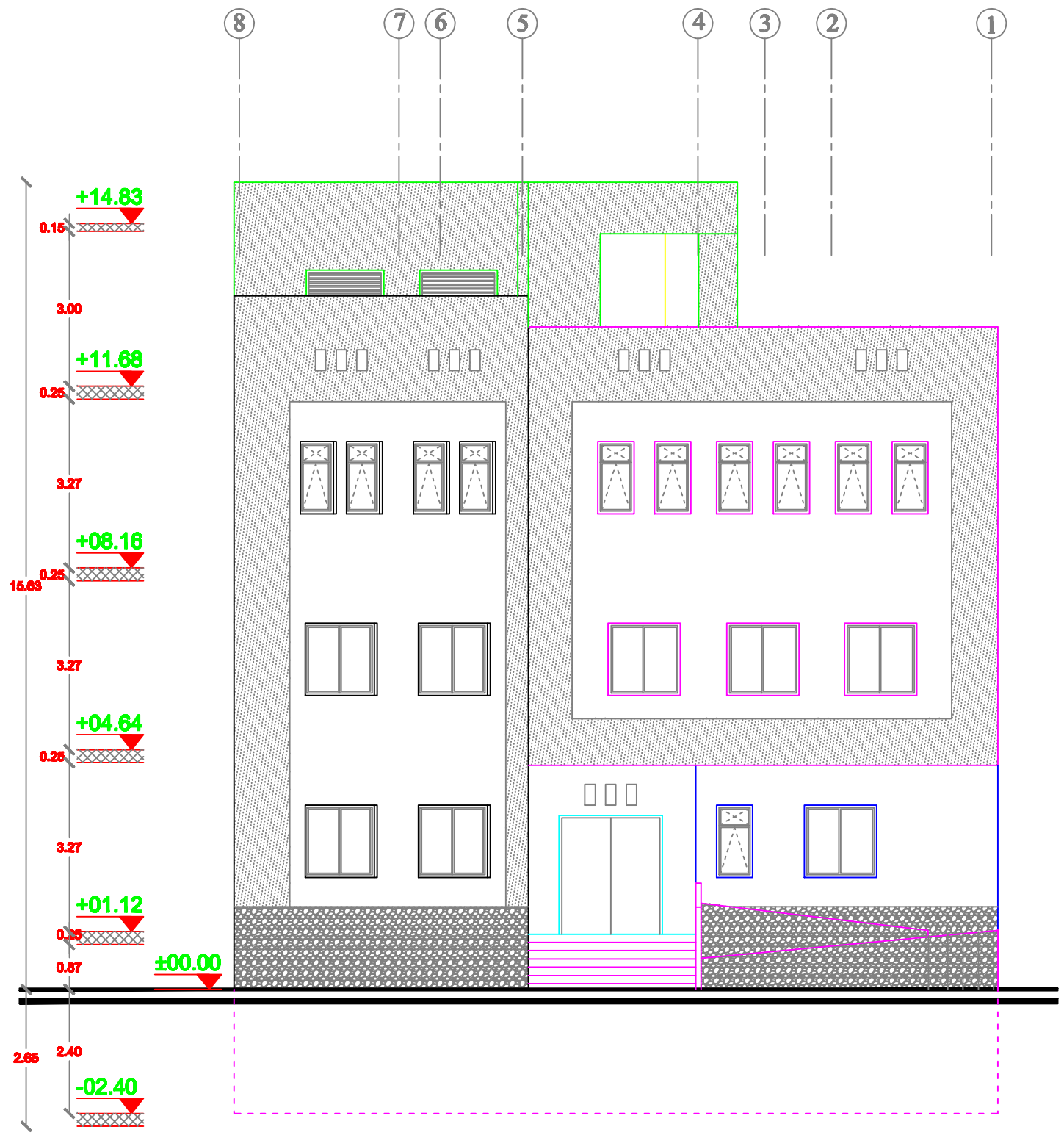

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
الواجهة الشمالية الشرقية

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
A 0 9	As Shown	Nov. 2014

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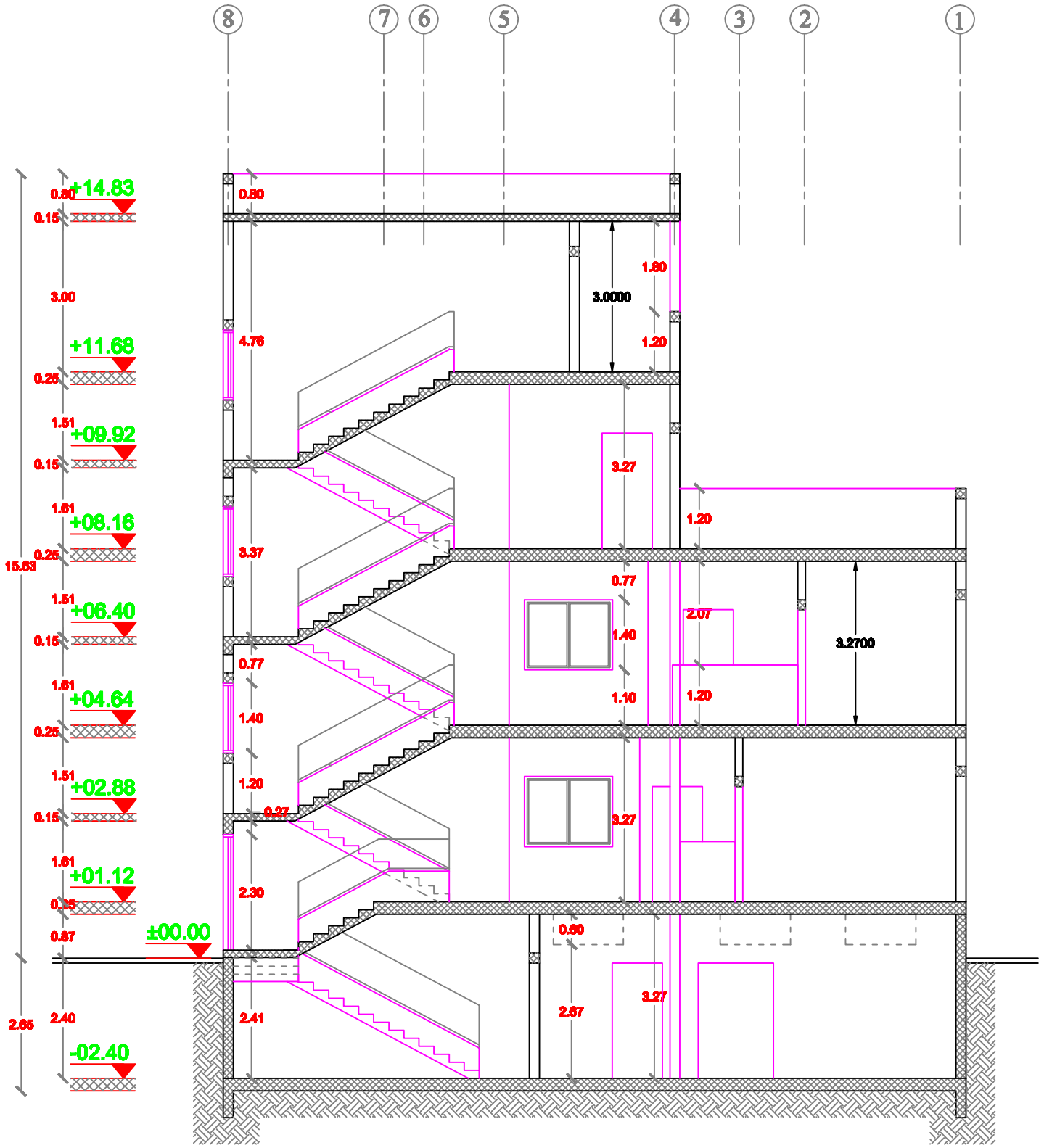

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
A-A قطاع

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
A 0 8	As Shown	Nov. 2014

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Atta Habib Clinic

Structural Drawings

GENERAL NOTES

1. CODE OF PRACTICE

Detailing and workmanship shall be according to ACI 318-05.
Design for concrete done according to ACI 318-05.
Estimation of Loads are according to ASCE 7-05 Table 4-1
Approved equivalent international codes shall be accepted.
Material testing is according to ASTM Standards.

2. DRAWINGS

1- Structural drawings shall be read in conjunction with Architectural, Mechanical and Electrical drawings.
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 shop drawings and bar bending schedules for reinforcement in a format agreed with the Engineer .
4- Drawings are not necessarily to scale .
5- Chamfers for fair faced concrete are not shown on Structural Drawings . Reference should be made to Architectural details for such purpose .
6- 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 .

3. REINFORCEMENT

1- Reinforcement shall be deformed high strength steel bars of characteristic strength of 360 Mpa complying with ASTM standards or equivalent for diameters 8mm & above .
2- Reinforcement shall be deformed steel bars of characteristic strength of 276 MPa complying with ASTM standards Or equivalent for diameters 6mm & below .
3- Reinforcement shall be placed as shown on the drawings and in the lengths specified .
4- Where bar length is not specified , longest practicable bar length shall be employed with staggered lap splices. Lap length shall be 45 times bar diameter .

4. CONCRETE COMMPRESSIVE STRENGTH

The following concrete compressive strength for (Cube 15x15x15) after 28 days shall be employed
Plain Concrete = 200 kg/cm2
For Foundations = 250 kg/cm2
For Ground Beams = 250 kg/cm2
For Columns = 300 kg/cm2
For slabs =300 kg/cm2

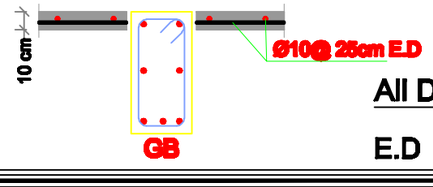
5. FOUNDATIONS

- Contractor shall adhere strictly to the geotchnical report for this project. He shall be responsible to determine strata characteristics at the appropriate levels
- The foundations are designed for a permissible bearing capacity equal to 140 kilonewtons per square meter
- Contractor shall be responsible for the coordination of all required E/M services within the sub - structure subject to approval of the engineer .
- Foundations are designed to carry 5 floors (ground floor and 4 floors)

6. BACK Fill

All back fill material shall conform to specifications and shall be properly tested

Floor Slab Detail



All Dimensions in mm unless mentioned

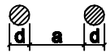
E.D Each Direction

GENERAL RULES

1. COVER

Clear concrete cover to reinforcement shall be :
For Foundations = 5.0 cm
For Slabs = 2.5 cm
For Columns = 3.0 cm

2. Min. Bar Spacing



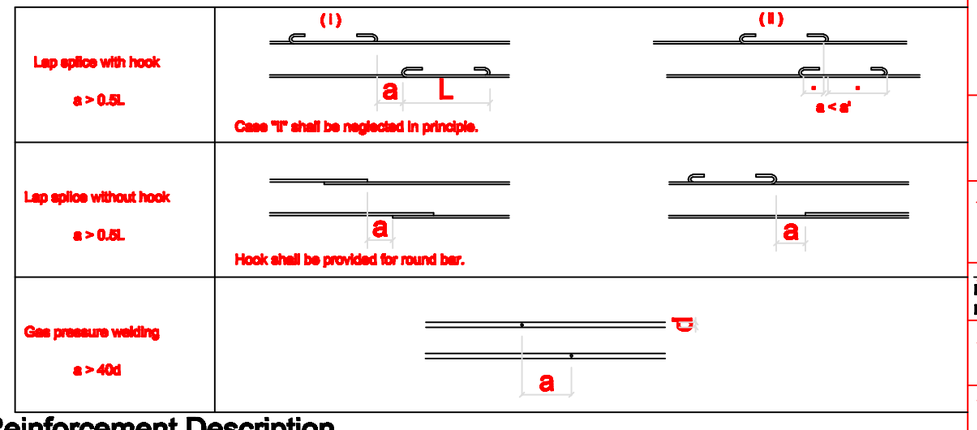
Bar spacing "a" shall be not less than the greatest in the following three cases:
1) 25 mm
2) 1.5 d
3) 1.25 times the max. size of coarse aggregate.

3. Min. Lap Splice and Embedment Lengths

Kind	Compressive Strength of concrete Fc (kg/cm2)	Without Hook				With Hook			
		S1	S2	S3		S1	S2	S3	
				Sub-beam	Slab			Sub-beam	Slab
Secondary	=>200	40d	35d	25d	>10d, 150	30d	25d	15d	--
Main	=>200	45d	40d	25d	>10d, 150	35d	30d	15d	--

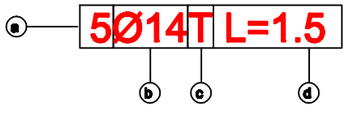
S1 : Lap splice length, and embedment length in tension zone.
S2 : embedment length in compression zone.
S3 : embedment length for the bottom bars of sub-beam and floor slab.
In case concrete strength,Fc,is below 200kg/cm2,S1 and S2 length shall be increased by 5d to the required length shown in the table.

4. Interval of bar splices



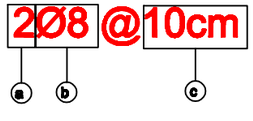
Reinforcement Description

1- Reinforcement Description for longitudinal Bars



a - Number of bars
b - Bar Diameter in mm
c - T= top layer , B= Bottom layer
d - Bar Length in m

2- Reinforcement Description for Stirrups



a - Number of bars
b - Bar Diameter in mm
c - Bar spacing in cm

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ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
تداوع اطع بيوبح

DRAWING NAME:
General Notes

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

Electrical:
Muhammed Abu Al Naser

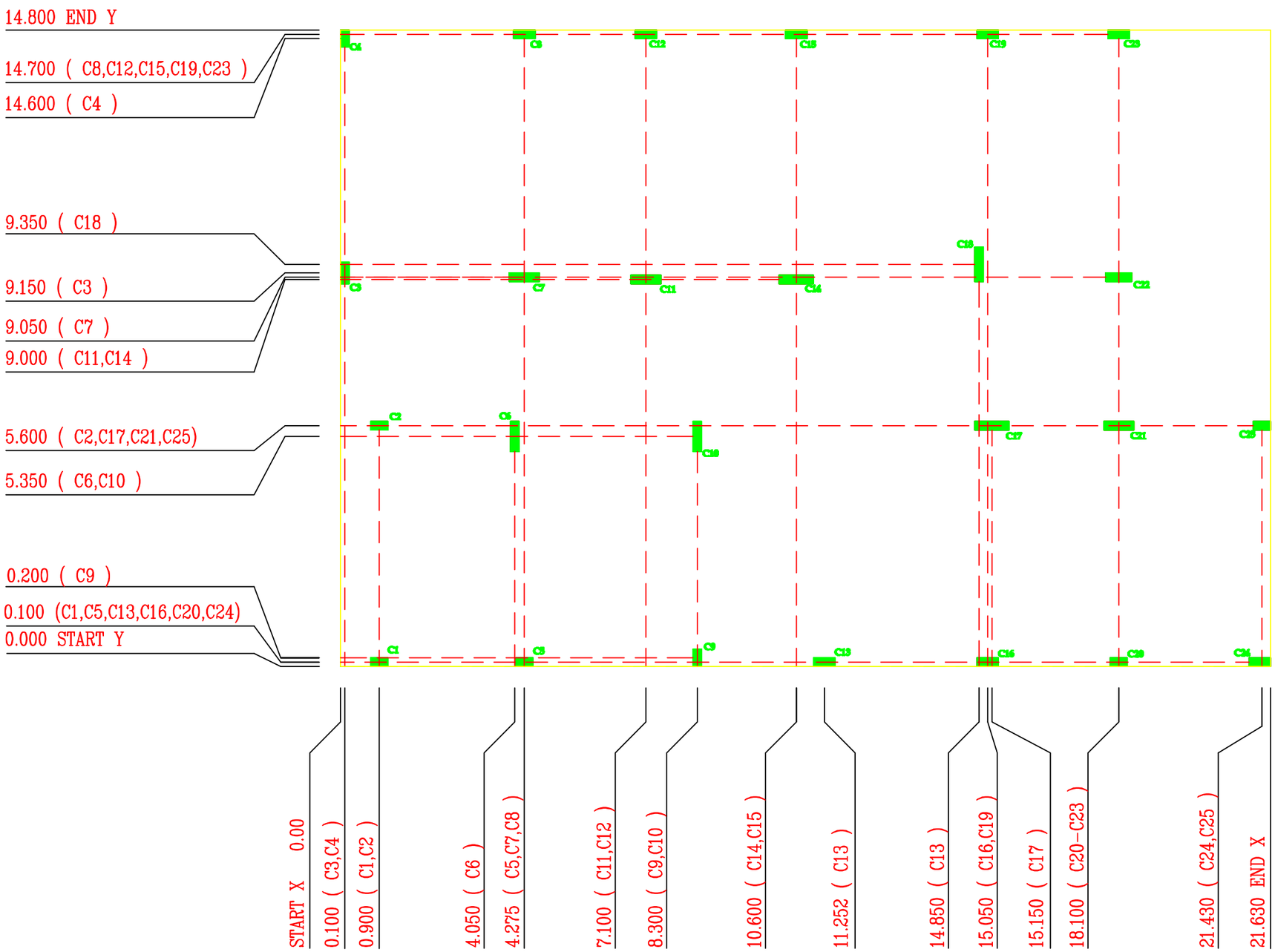
Mechanical:
Ezzat Abu Jalhom

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
C	0	0	As Shown	Jan. 2015

Columns Axes



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ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
مشاريع أطلع بيجيبح

DRAWING NAME:
Columns Axes

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

Electrical:
Mohamed Abu Al Naser

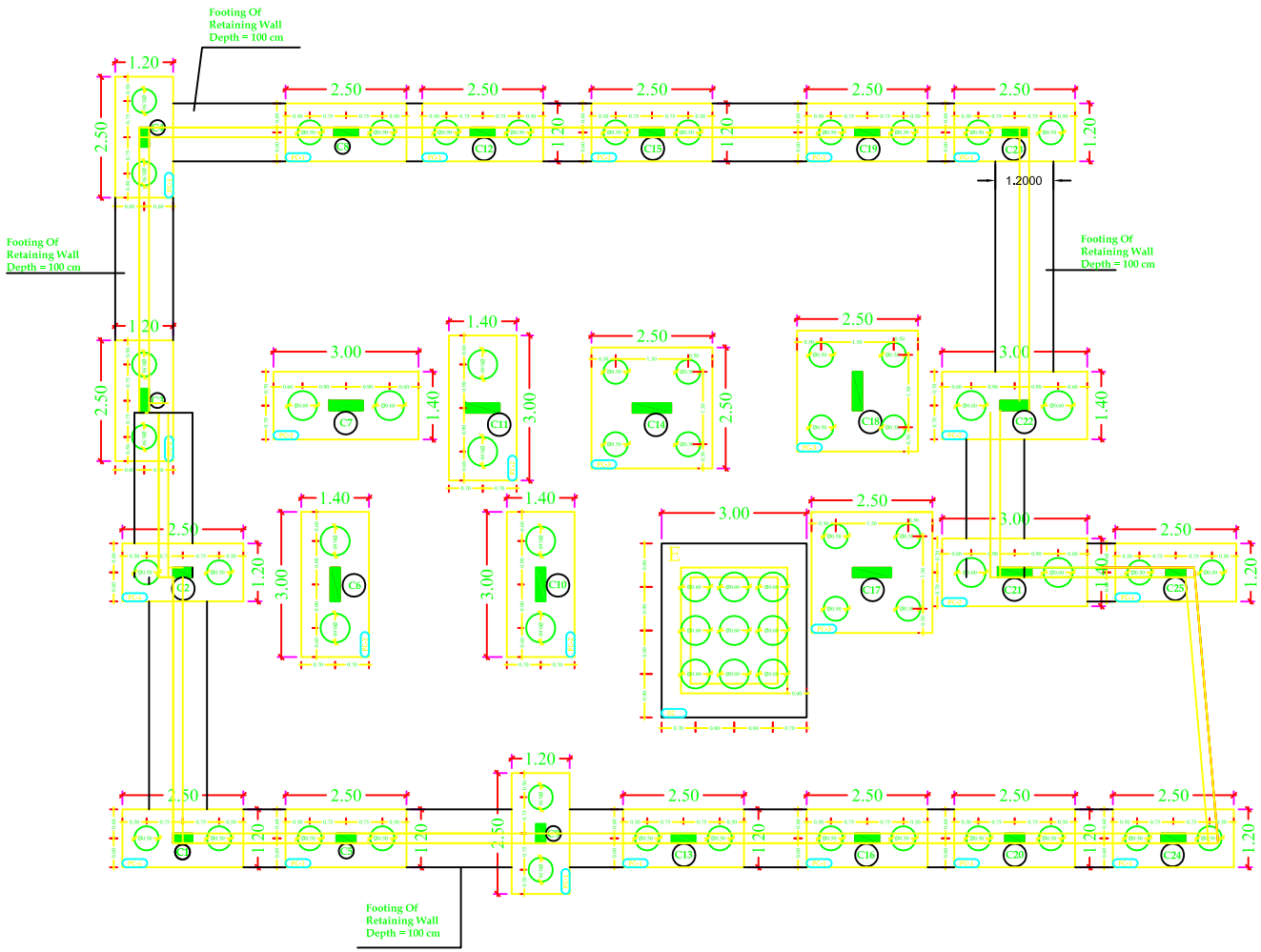
Mechanical:
Ezzat Abu Jalhom

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
C	0	1	As Shown	Jan. 2015

Piles and Pile Caps Layout and Dimensions



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ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
قدايع اطع بـيـبـح

DRAWING NAME:
Piles and Pile Caps Layout and Dimensions

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

Electrical:
Mohamed Abu Al Naser

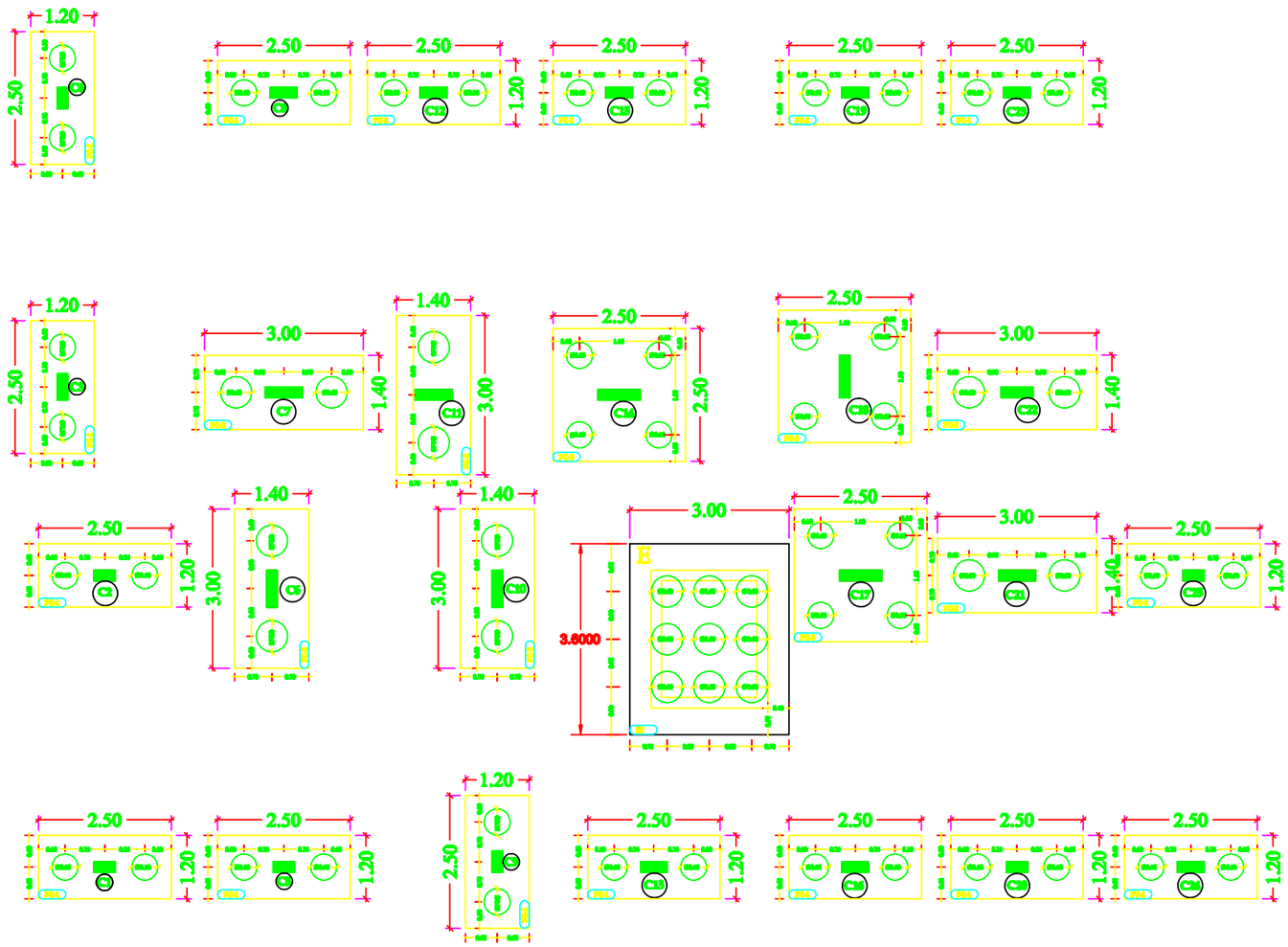
Mechanical:
Ezzat Abu Jalhom

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
C	0	2	As Shown	Jan. 2015

Piles and Pile Caps Layout and Dimensions



PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
مشاريع أطلع بيوبيح

DRAWING NAME:
Piles and Pile Caps Layout and Dimensions

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

Electrical:
Mohamed Abu Al Naser

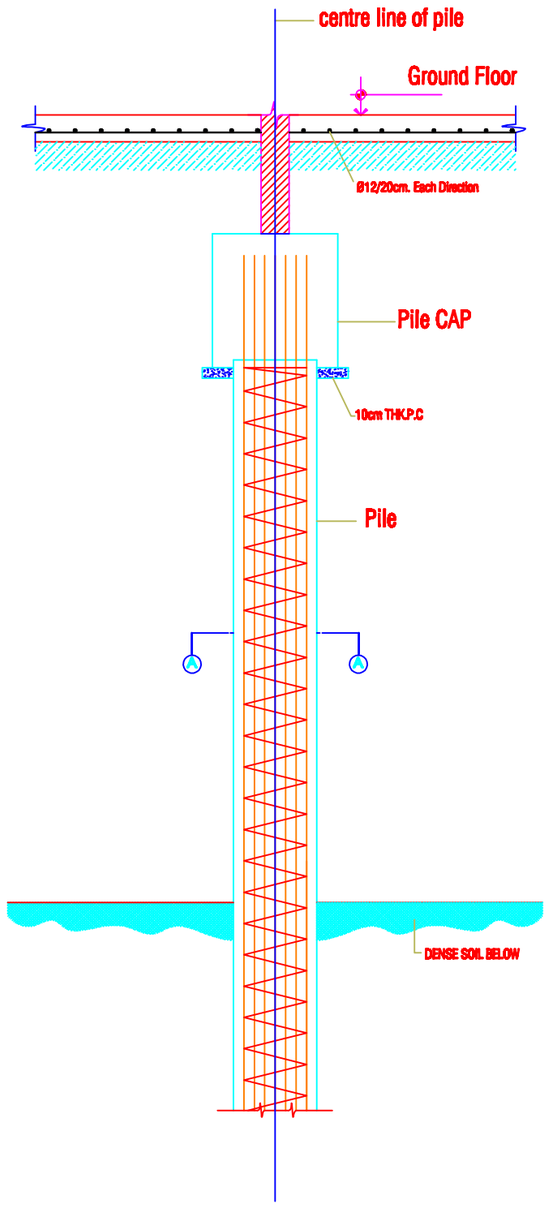
Mechanical:
Ezzat Abu Jalhom

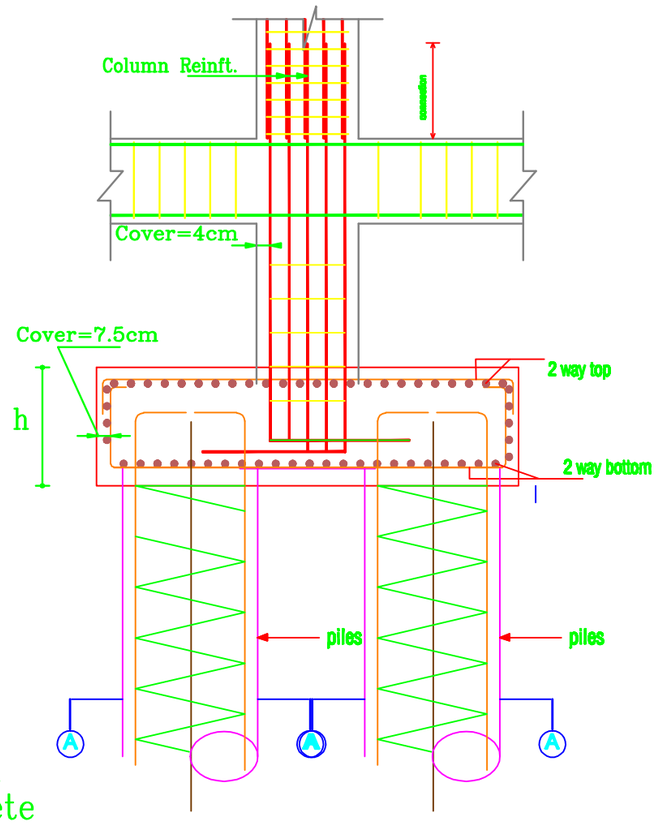
Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

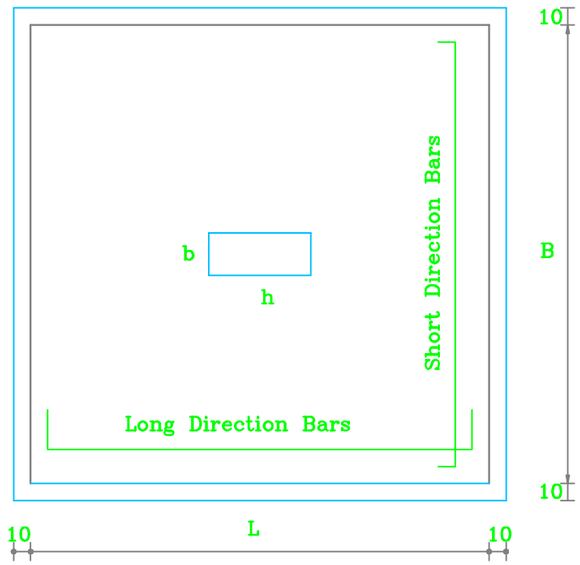
DRAWING NO.			SCALE	DATE
C	0	2	As Shown	Jan. 2015

Longitudinal Section in Concrete Pile





Plain concrete



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ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTM

NOTES:

PROJECT NAME:
مشروع مبنى مجمع

DRAWING NAME:
Piles and Pile Caps Sections and Details

Architect:
EMAN ELHALLAQ SALWA ABD
HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

Electrical:
Mohamed Abu Al Naser

Mechanical:
Ezzat Abu Jalhom

Director of Engineering &Development Departme
ENG. MOHAMMAD ABU HAMD

General Director of Engineering & Maintena
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	
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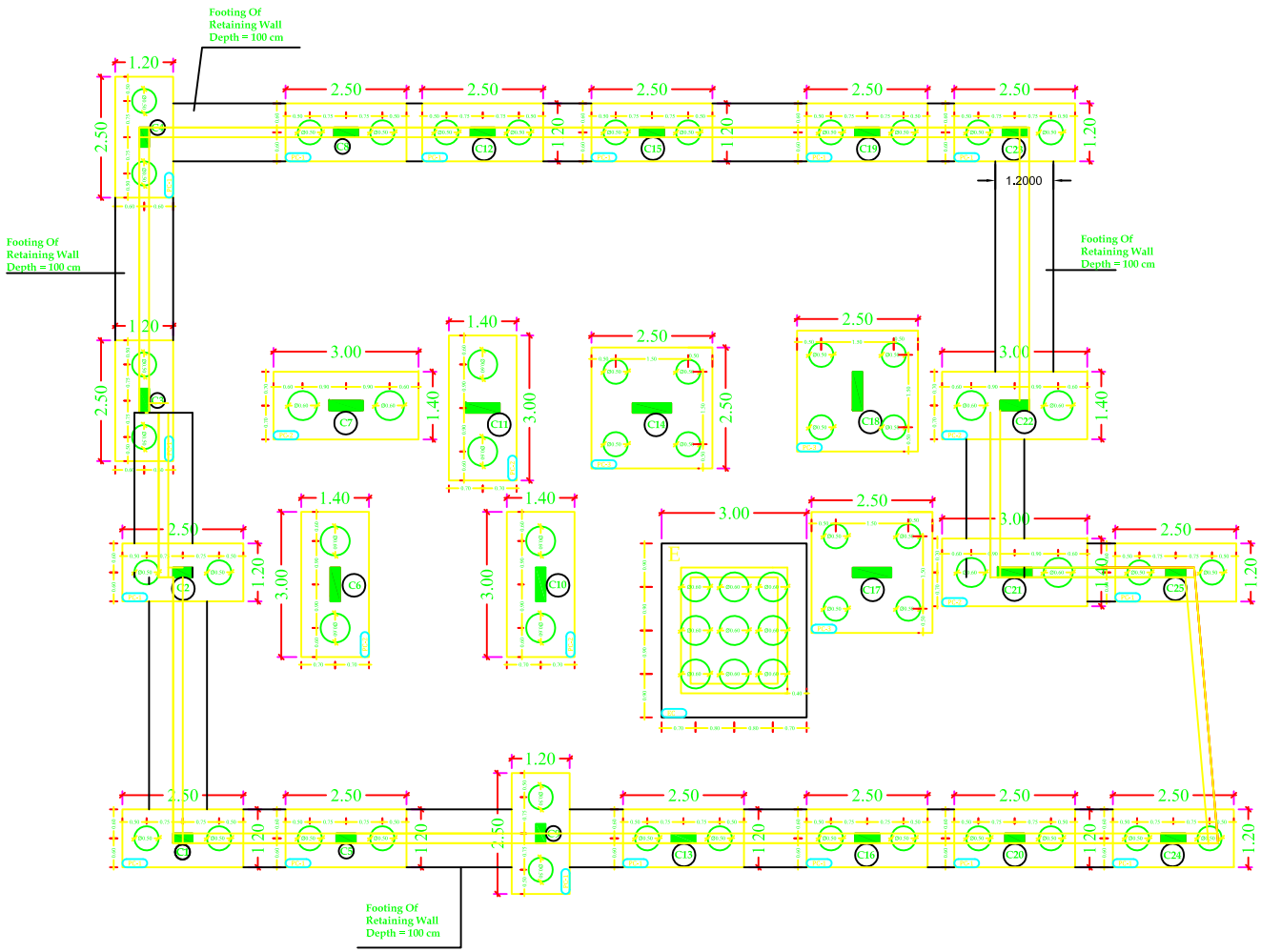
Piles and Pile Caps Layout and Dimensions



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MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
قدايع اطع بـيـبـح

DRAWING NAME:
Piles and Pile Caps Layout and Dimensions

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

Electrical:
Mohamed Abu Al Naser

Mechanical:
Ezzat Abu Jalhom

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
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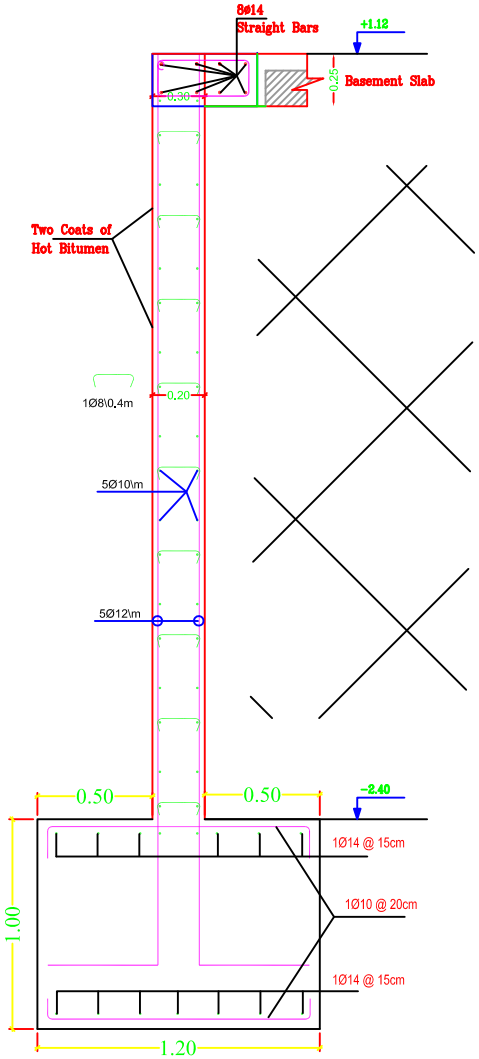
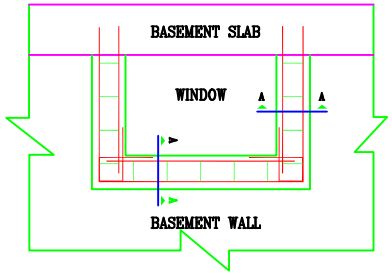


OPENINGS THROUGH BASEMENT WALLS



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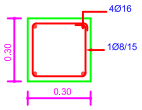

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MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
قطاع طبي

DRAWING NAME:
Basement Walls Details

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

Electrical:
Mohamed Abu Al Naser

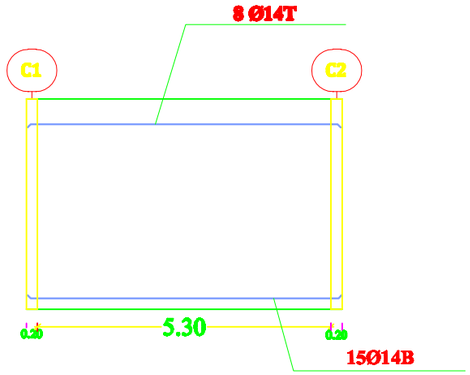
Mechanical:
Ezzat Abu Jalhom

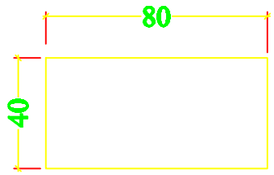
Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
C	0	9	As Shown	Jan. 2015

MB - 1





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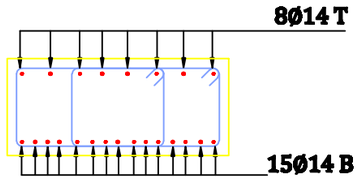

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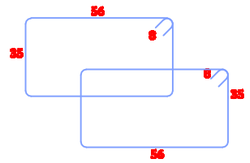

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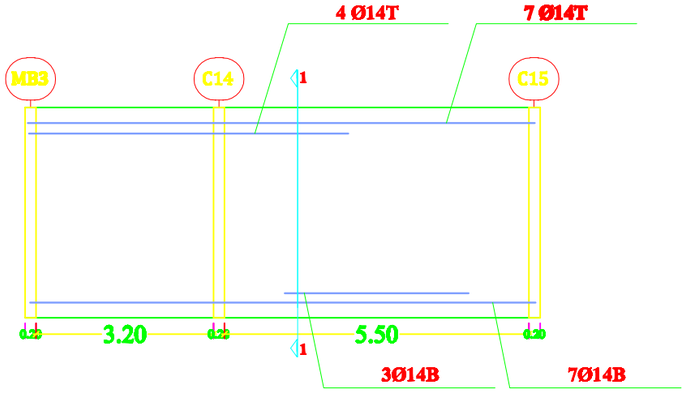

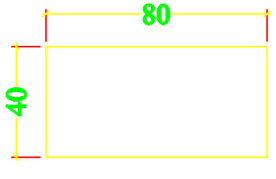

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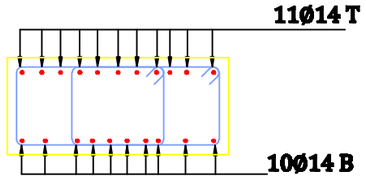
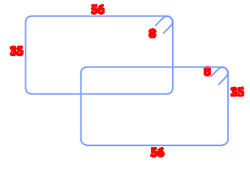


2Ø8 mm
10 cm at ends
20 cm at middle



PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
كتاوع لطع بيوبيح

DRAWING NAME:
Beam Design - 1

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqeder Shurrab

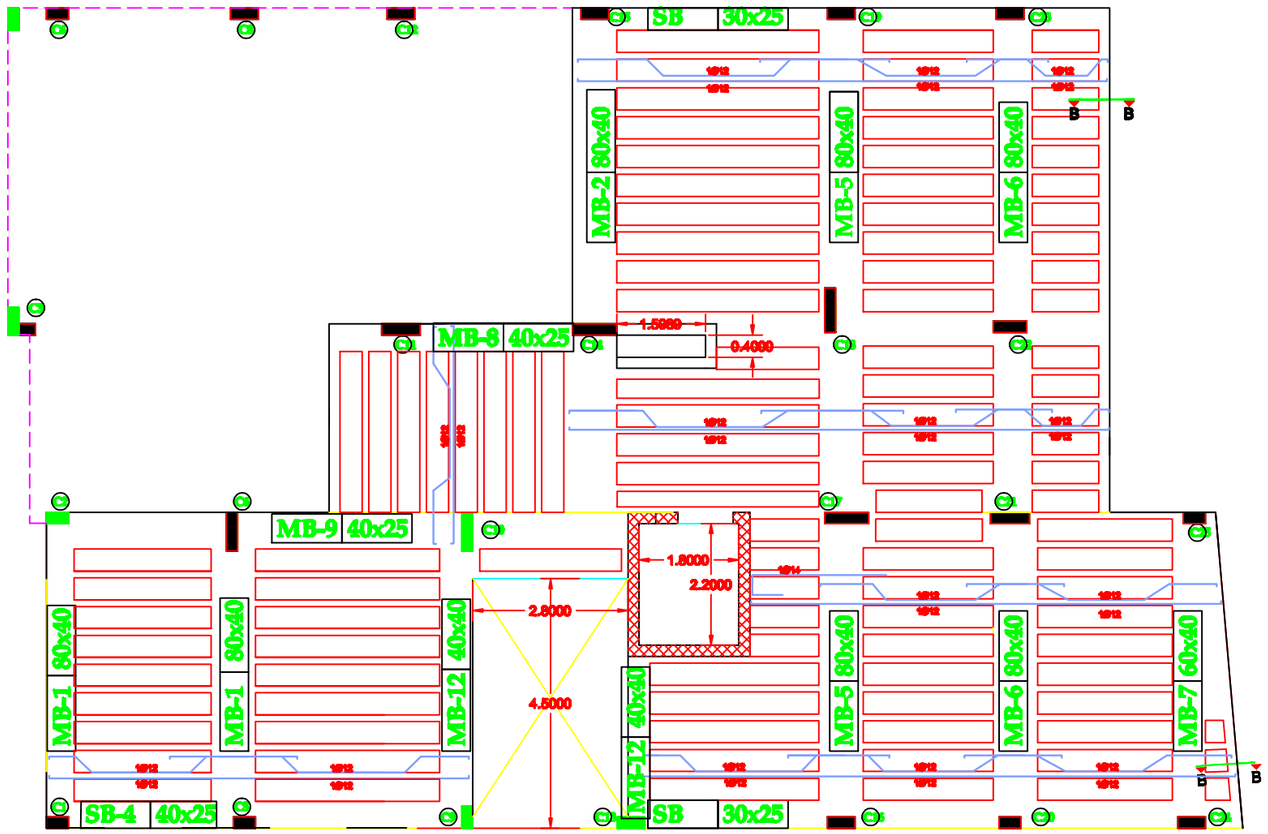
Electrical:
Mohamed Abu Al Naser

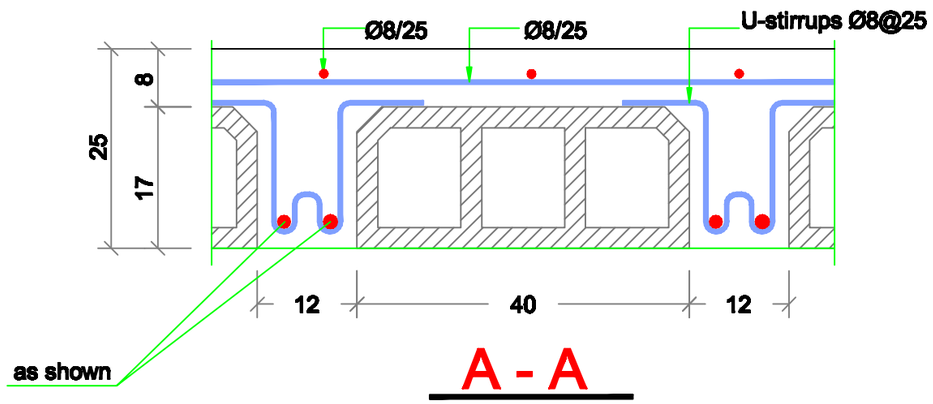
Mechanical:
Ezzat Abu Jalhom

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

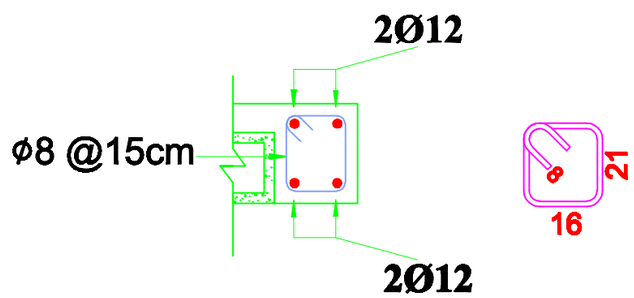
General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
C	1	9	As Shown	Jan. 2015





A - A



Sec B-B

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
كتاوع لطع بيجيبح

DRAWING NAME:
Second Floor Slab Design

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

Electrical:
Mohamed Abu Al Naser

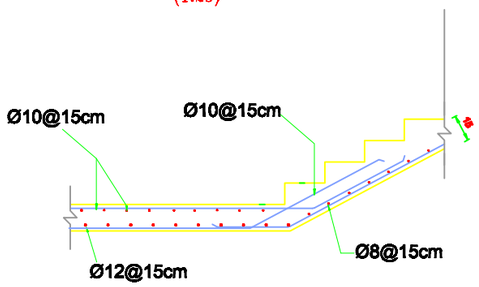
Mechanical:
Rezzat Abu Jalhom

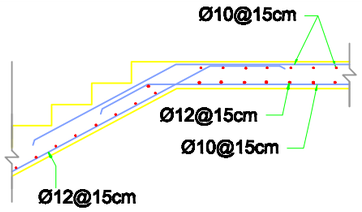
Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

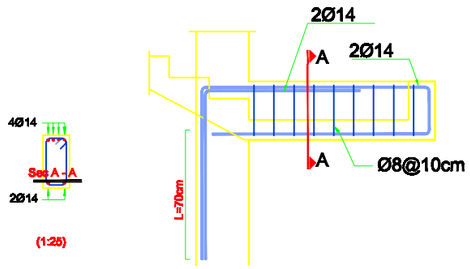
General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
C	1	7	As Shown	Jan. 2015

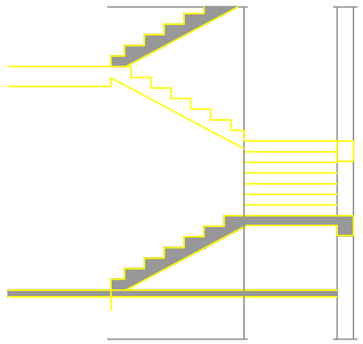
Typical Stairs Details
(1:25)





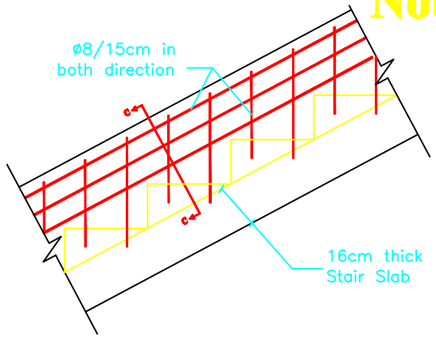


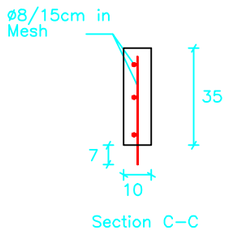
Detail in the cantiliver Landing (1:25)



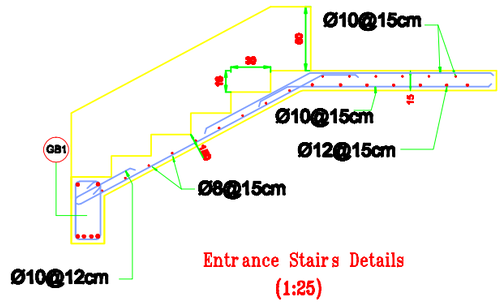
Stairs Details

Note: Dimension of Riser, Tread, and Handrail Should be Revised with Architecture Drawings Details



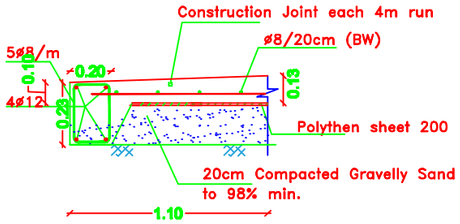


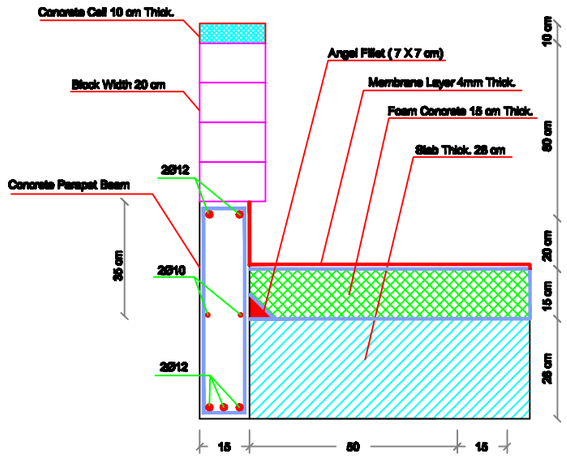
Handrail Concrete Wall at Staircase
SCALE 1:10



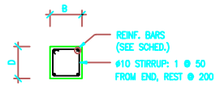
Entrance Stairs Details
(1:25)

Apron Details
Scale : NTS





LINTEL BEAM SCHEDULE			
W (MM)	B (MM)	D (MM)	REINF. BARS
2000 OR LESS	200	200	4 ø12
3000	200	200	4 ø16



PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
كادر لطرح بيوبيح

DRAWING NAME:
Concrete Details - 1

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Sturrab

Electrical:
Mohamed Abu Al Naser

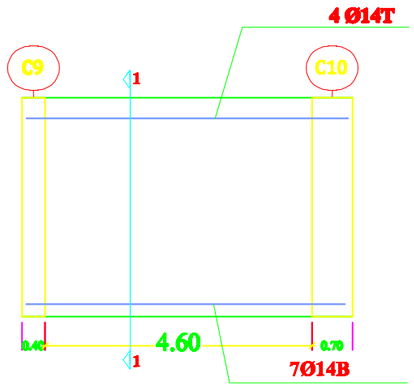
Mechanical:
Ezzat Abu Jalhom

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
C	2	7	As Shown	Jan. 2015

MB - 12



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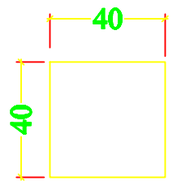
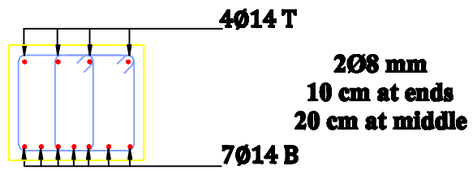
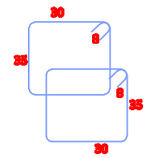






PALESTINIAN NATIONAL AUTH
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTM

NOTES:

PROJECT NAME:
كداوع لطع بيوبح

DRAWING NAME:
Beam Design - 4

Architect:
EMAN ELHALLAQ SALWA ABI
HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

Electrical:
Mohamed Abu Al Naser

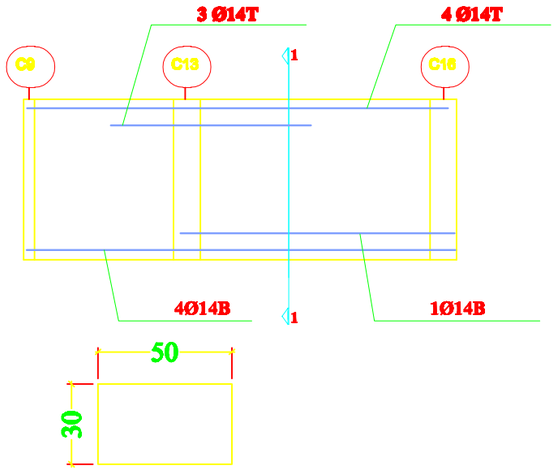
Mechanical:
Ezzat Abu Jalhom

Director of Engineering &Development Departme
ENG. MOHAMMAD ABU HAMD

General Director of Engineering & Maintena
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	
C	2	5	As Shown	Jan

MB - 10



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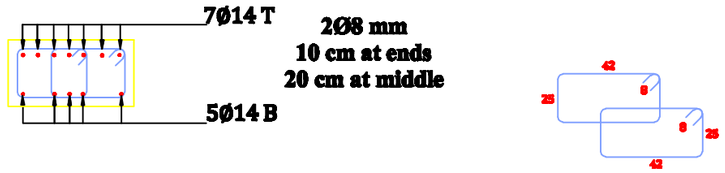

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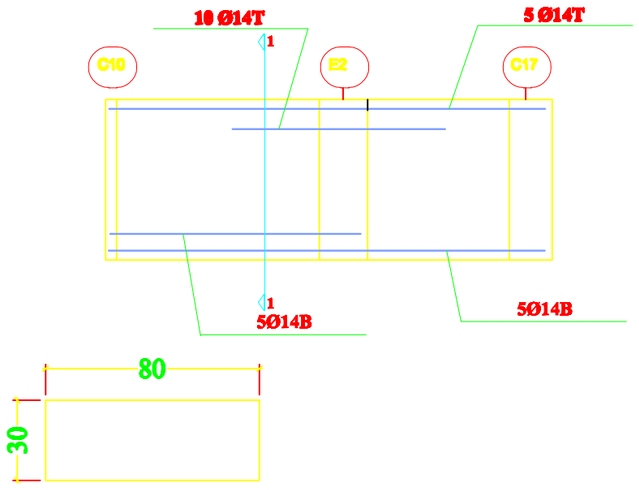


Section 1-1

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
مشاريع لطع بيوبيح

DRAWING NAME:
Beam Design - 4

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

Electrical:
Mohamed Abu Al Naser

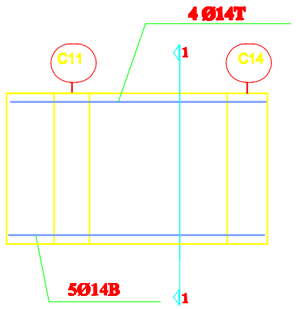
Mechanical:
Ezzat Abu Jalhom

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
C	2	4	As Shown	Jan. 2015

MB - 8



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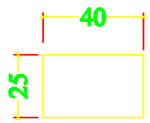

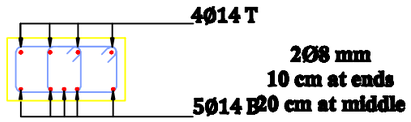

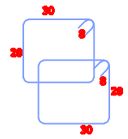

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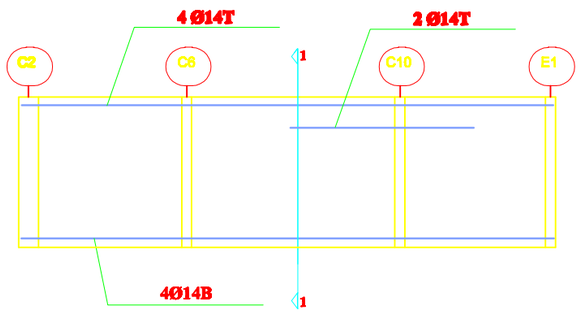

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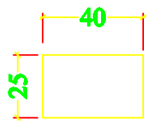
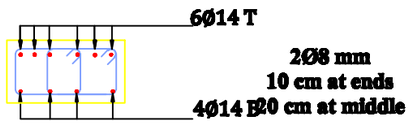
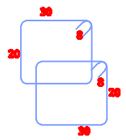






PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
داوع لطع بيوبح

DRAWING NAME:
Beam Design - 4

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Sharrab

Electrical:
Mohamed Abu Al Naser

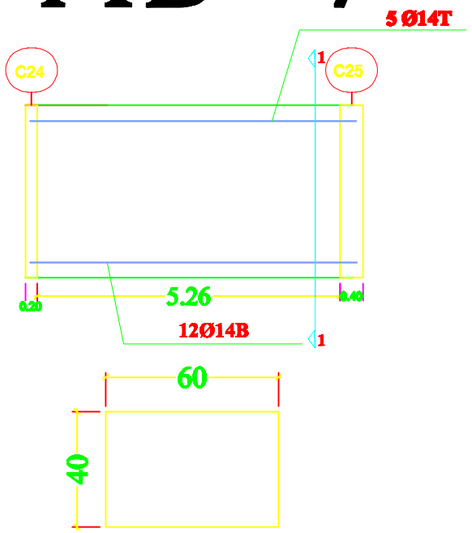
Mechanical:
Ruzzat Abu jalhom

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
C	2	3	As Shown	Jan. 2015

MB - 7



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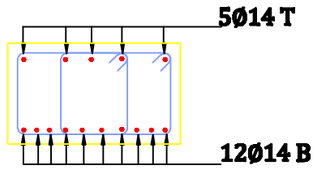
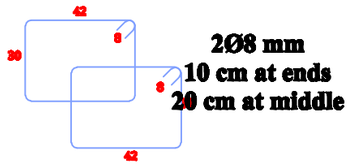
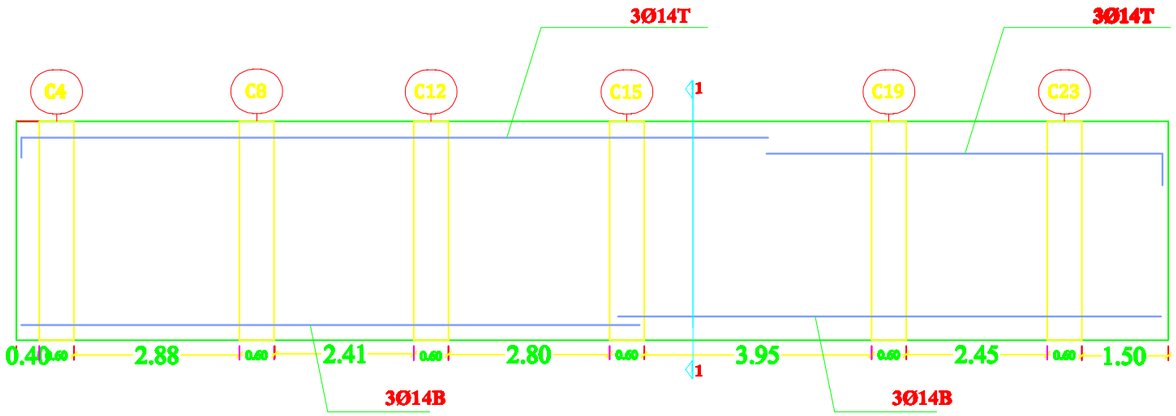




S.B - TYPICAL



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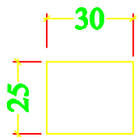
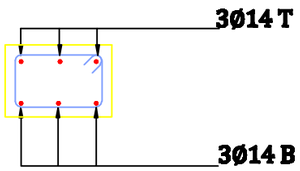
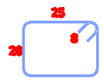






PALESTINIAN NATIONAL AUTH
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTM

NOTES:

PROJECT NAME:
مشاريع لطع بيوبيح

DRAWING NAME:
Beam Design - 4

Architect:
EMAN ELHALLAQ SALWA ABI
HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

Electrical:
Mohamed Abu Al Naser

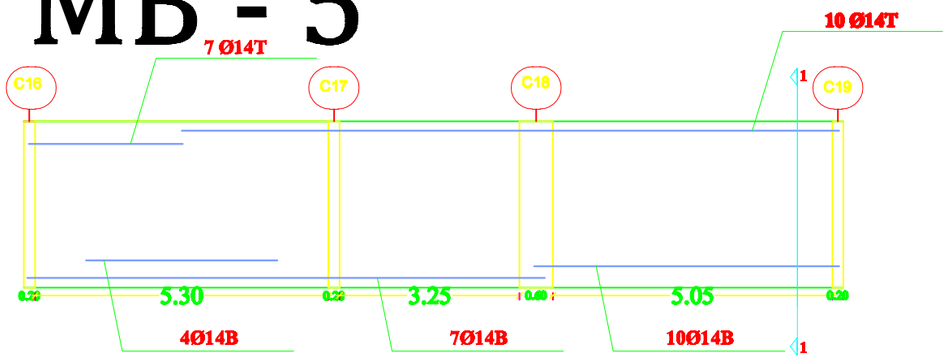
Mechanical:
Ezzat Abu Jalhom

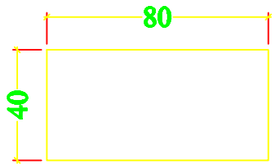
Director of Engineering &Development Departme
ENG. MOHAMMAD ABU HAMD

General Director of Engineering & Maintena
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	
C	2	2	As Shown	Jan

MB - 5





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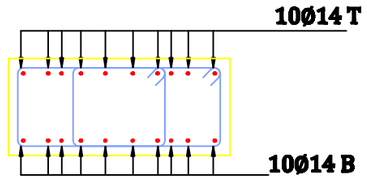

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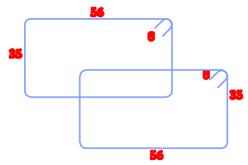

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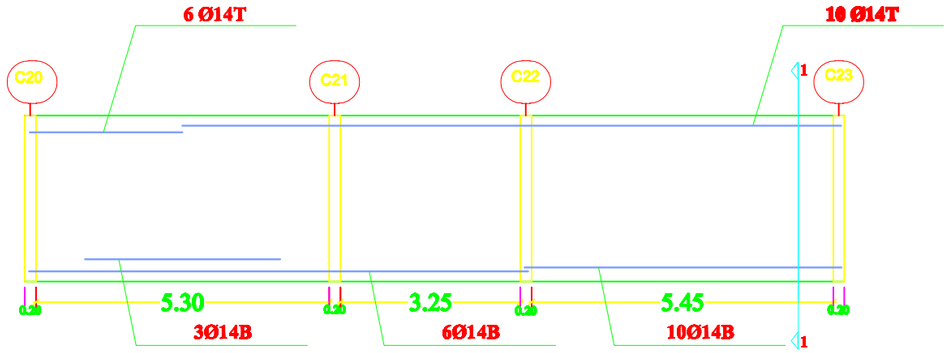

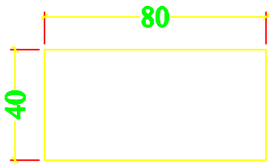

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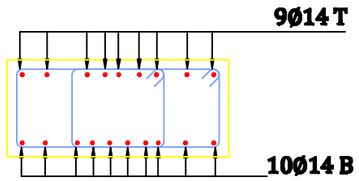

2Ø8 mm
10 cm at ends
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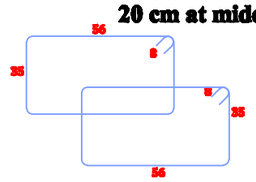


PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
كادر لطرح بيوبيح

DRAWING NAME:
Beam Design - 3

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Maqdad
Abdelqader Shurrab

Electrical:
Mohamed Abu Al Naser

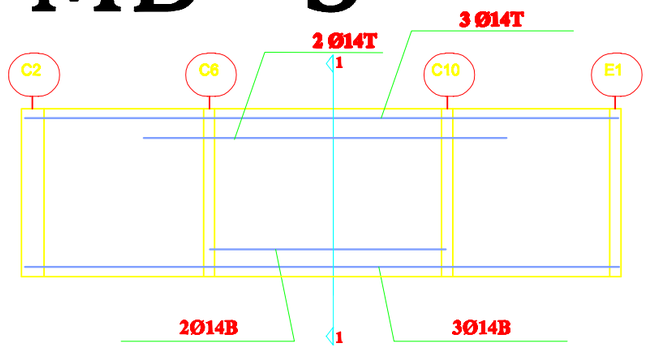
Mechanical:
Ezzat Abu Jalhom

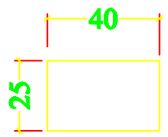
Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
C	2	1	As Shown	Jan. 2015

MB - 3





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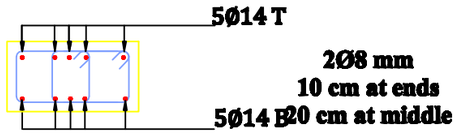
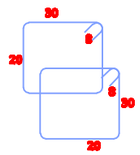
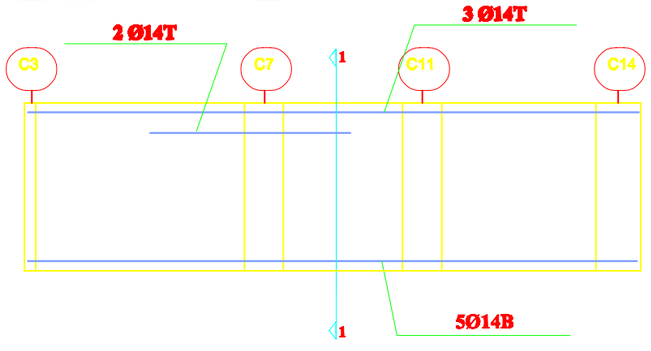
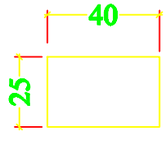


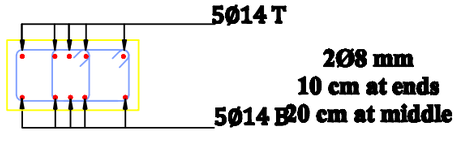


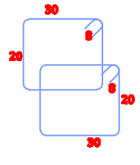
MB - 4





Section 1-1





PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
مشاريع اطلع بيتي ج

DRAWING NAME:
Beam Design - 2

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

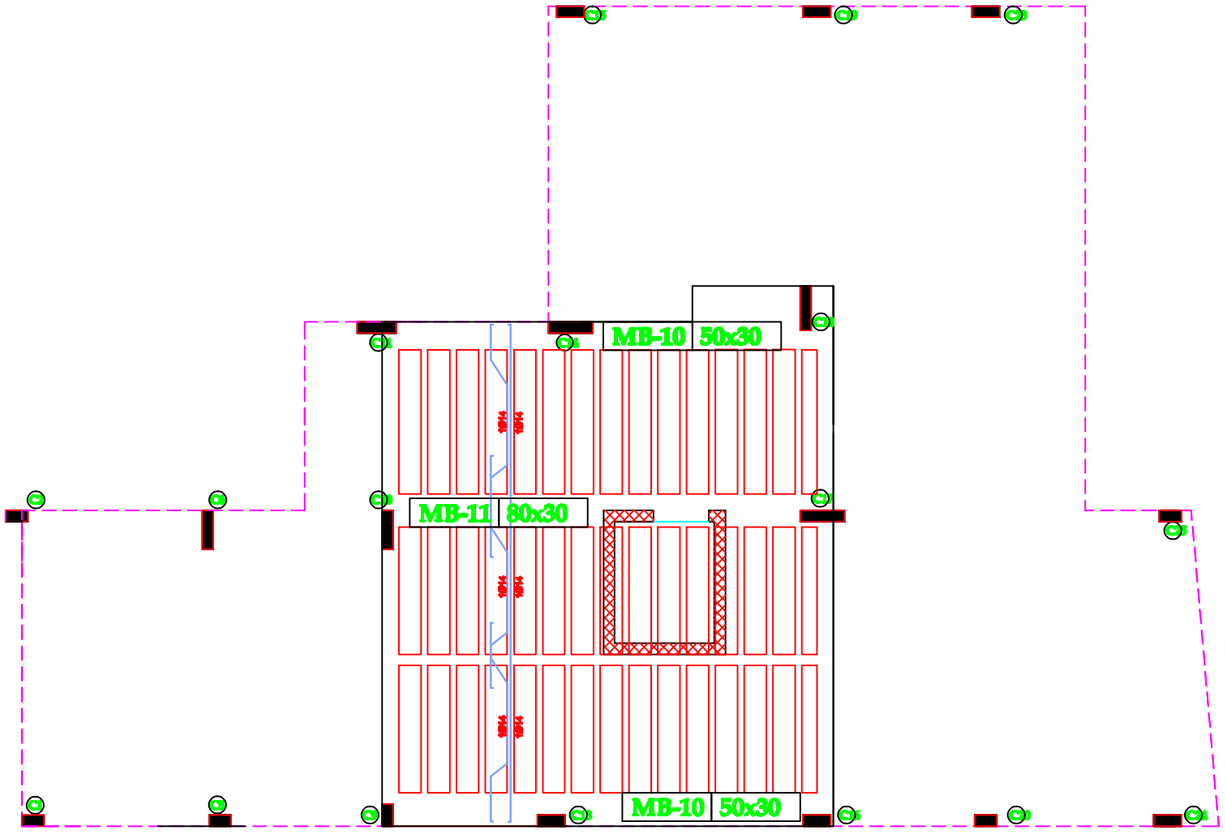
Electrical:
Mohamed Abu Al Naser

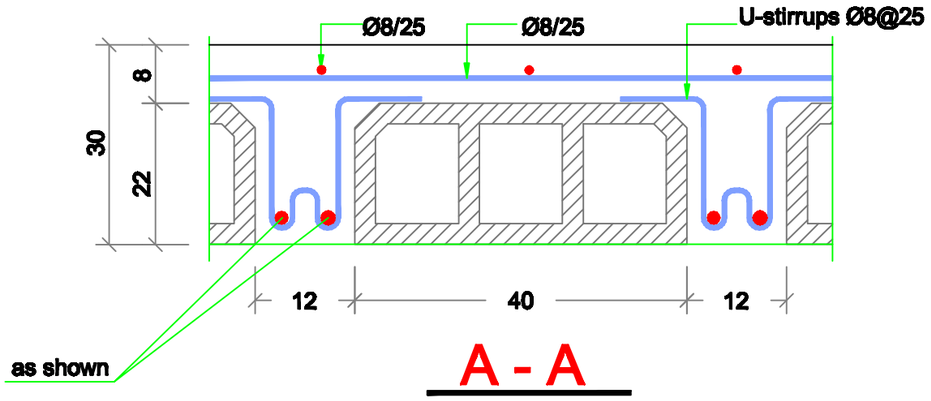
Mechanical:
Ezzat Abu Jalhom

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
C	2	0	As Shown	Jan. 2015





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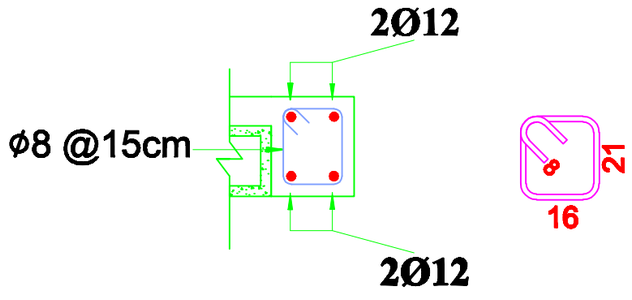


Sec B-B

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
كنايع اطع بيوبح

DRAWING NAME:
Last Floor Slab Design

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

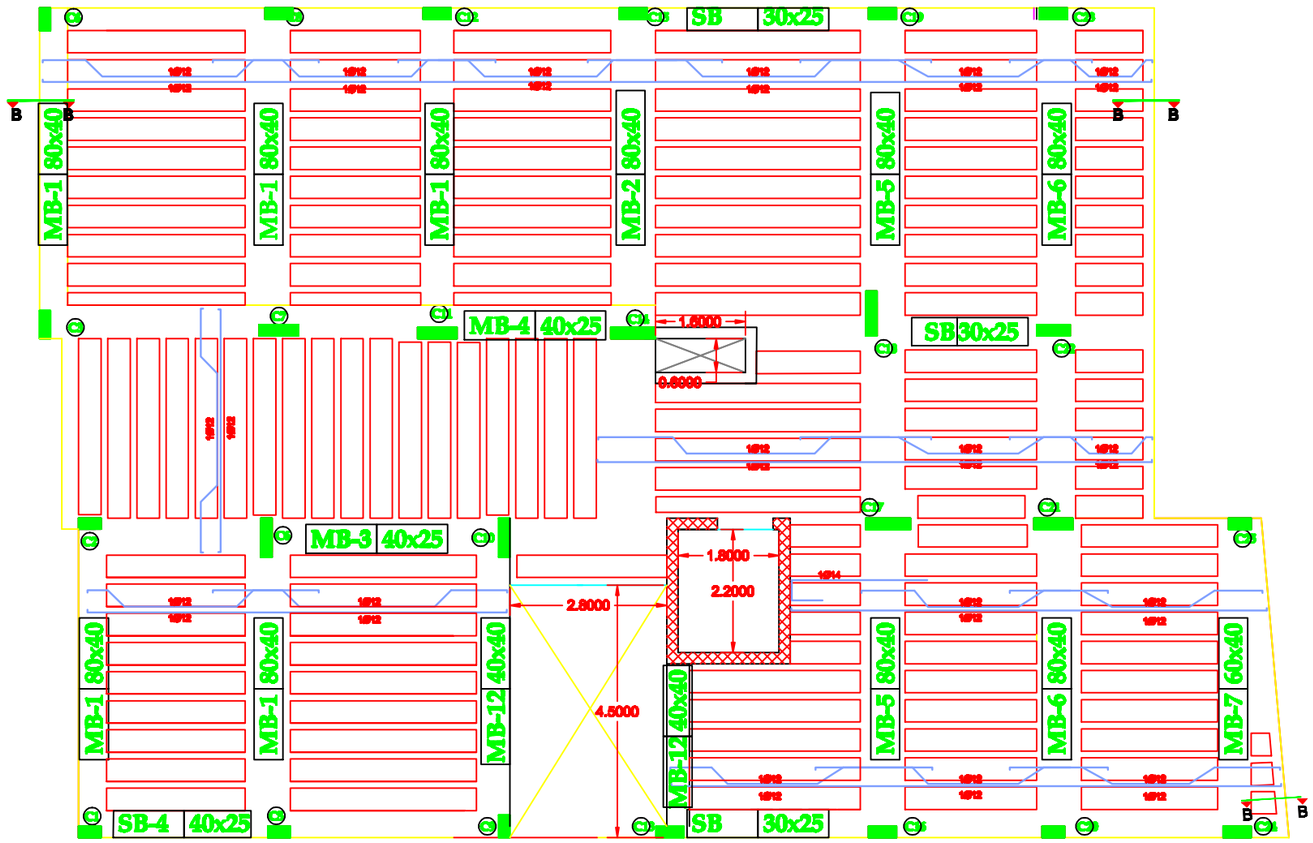
Electrical:
Mohamed Abu Al Naser

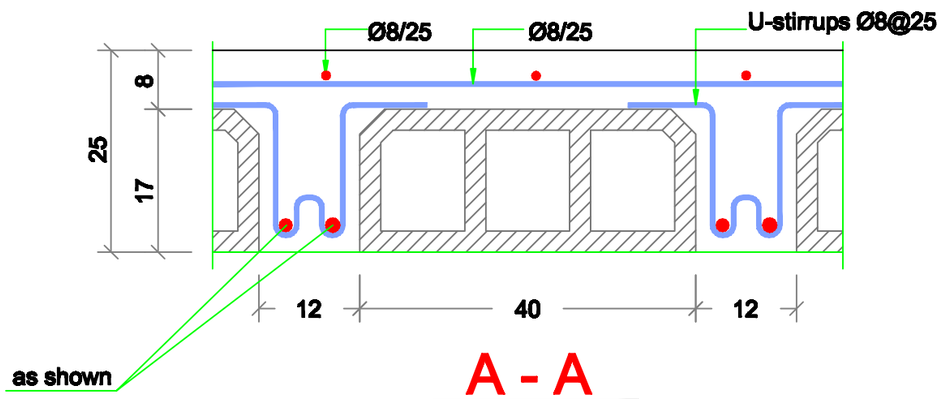
Mechanical:
Ezzat Abu Jalhom

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
C	1	8	As Shown	Jan. 2015





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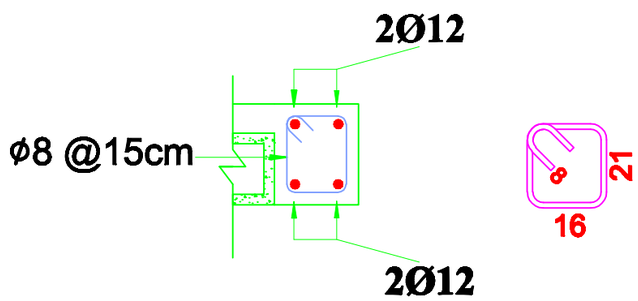


Sec B-B

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
مشاريع أطلع بيوبيح

DRAWING NAME:
Ground and First Floor Slabs Design

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

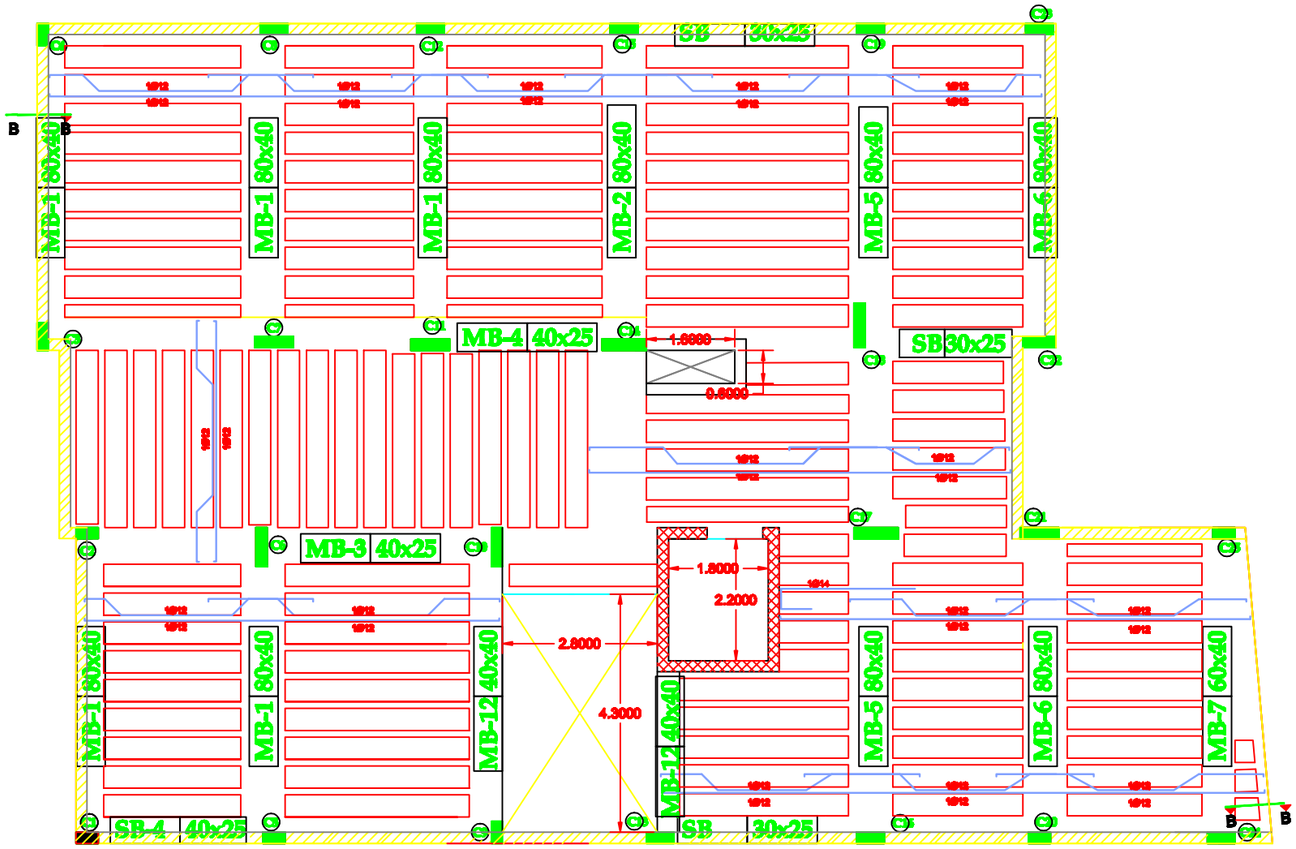
Electrical:
Mohamed Abu Al Naser

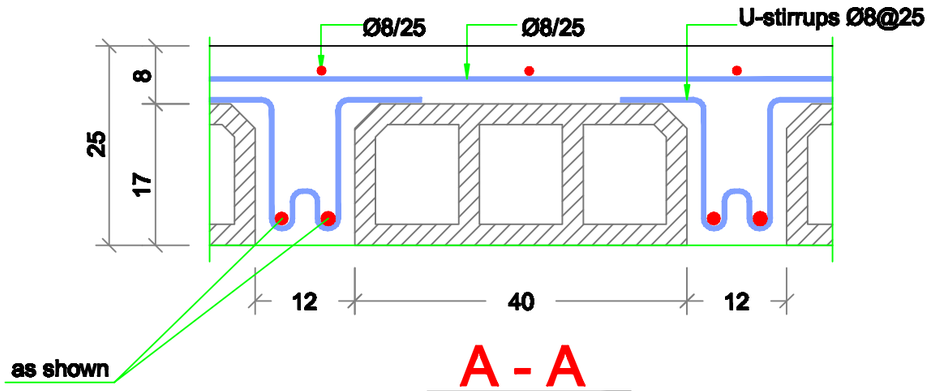
Mechanical:
Ezzat Abu Jalhom

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

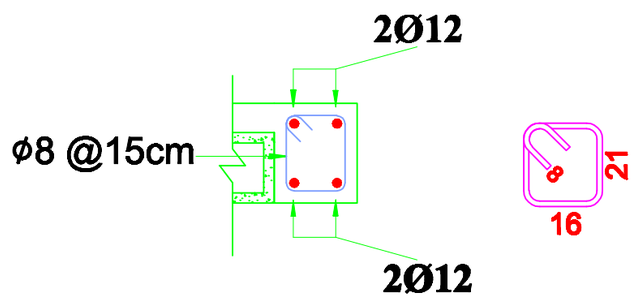
General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
C	1	6	As Shown	Jan. 2015





A - A



Sec B-B

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
كادر لطح بيتيبح

DRAWING NAME:
Basement Floor Slab Design

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

Electrical:
Mohamed Abu Al Naser

Mechanical:
Ezzat Abu Jalhom

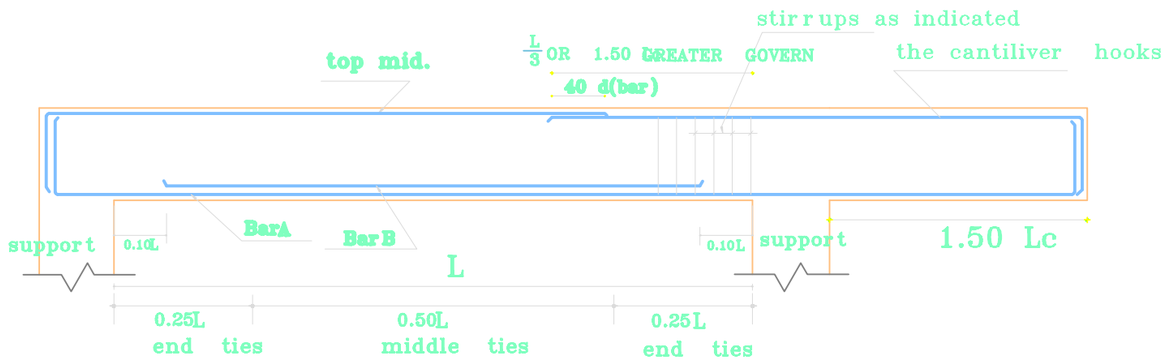
Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

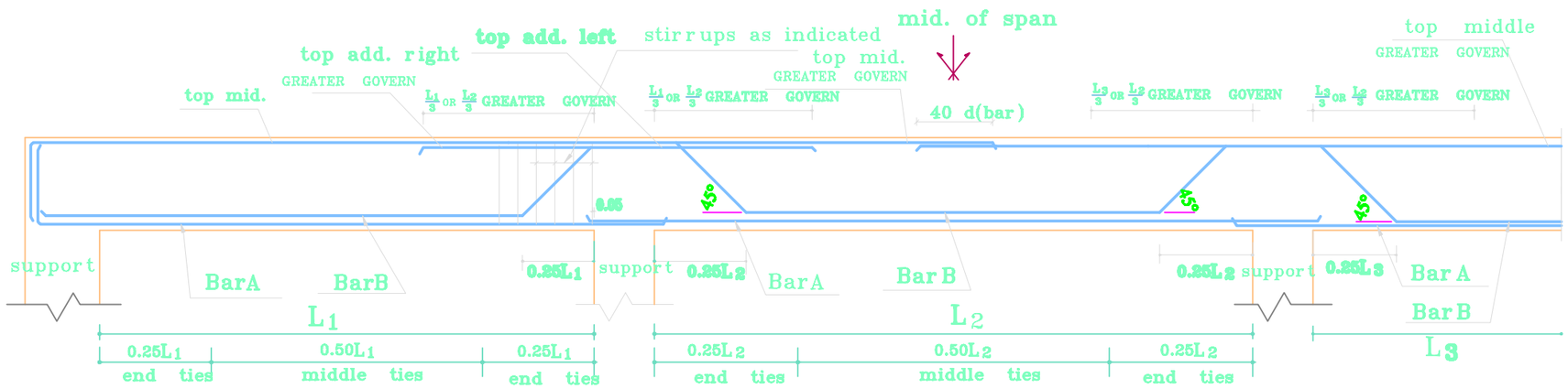
DRAWING NO.			SCALE	DATE
C	1	5	As Shown	Jan. 2015

Beam Reinforcement detail-Cut Off Bars

Reinforcement Details of Beam with Cantiliver



Reinforcement Details of Continuous Beam-Bent Up bars



PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
كاوع لطع بيوبح

DRAWING NAME:
Beam reinforcement details - cut off bars - 2 and Bent Up

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Sharrab

Electrical:
Mohamed Abu Al Naser

Mechanical:
Ezzat Abu Jalhom

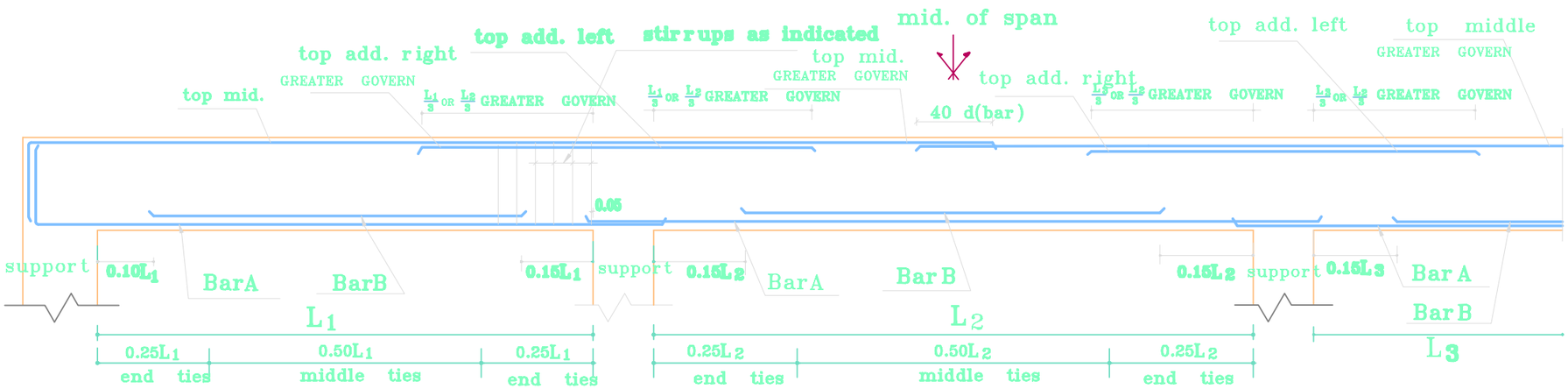
Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

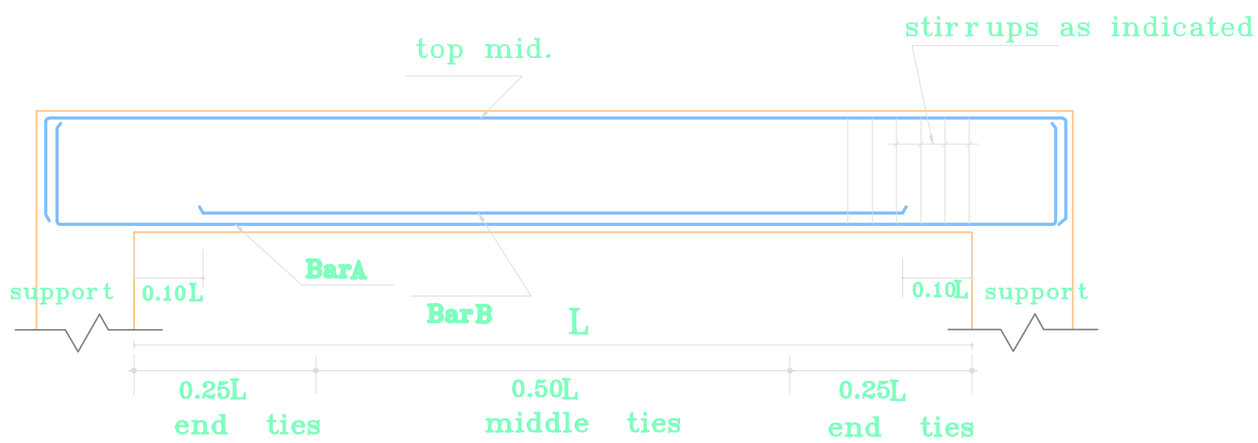
DRAWING NO.			SCALE	DATE
C	1	4	As Shown	Jan. 2015

Beam Reinforcement detail-Cut Off Bars

Reinforcement Details of Continuous Beam



Reinforcement Details of Simple Beam



PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
كاوع اطع بيوبيح

DRAWING NAME:
Beam reinforcement details - cut off bars - 1

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

Electrical:
Mohamed Abu Al Naser

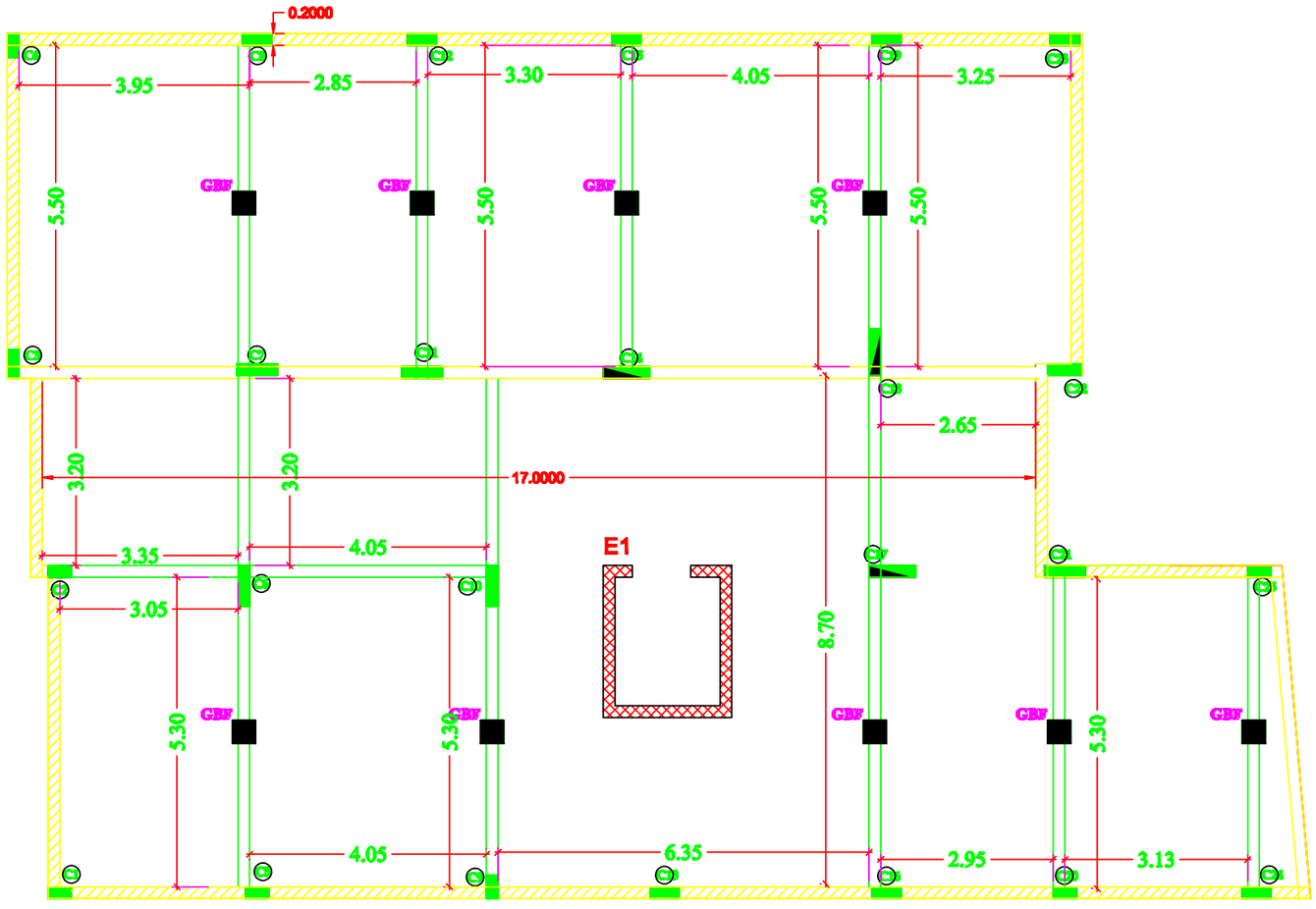
Mechanical:
Ezzat Abu Jalhom

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

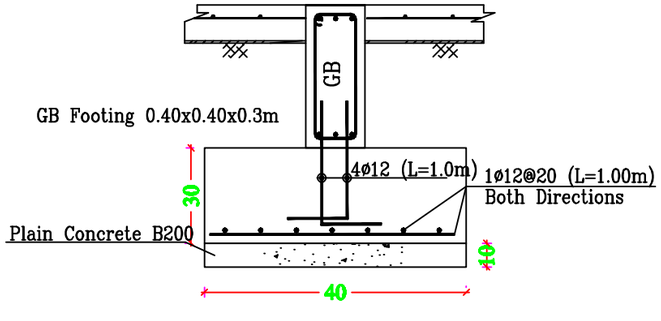
DRAWING NO.			SCALE	DATE
C	1	3	As Shown	Jan. 2015

Ground Beams Layout

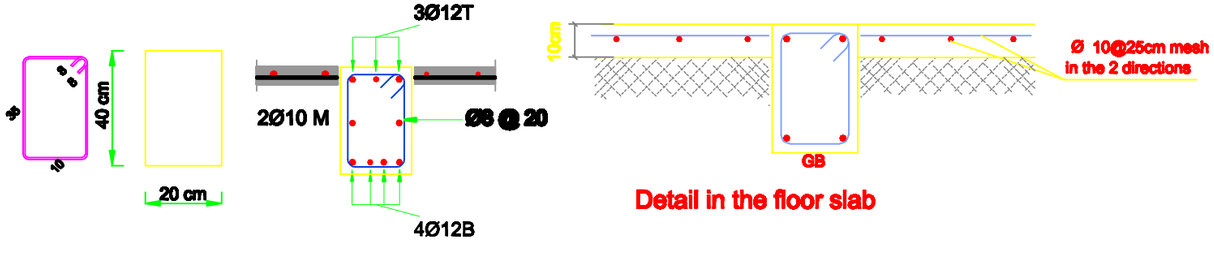


Ground Beam Footing (GBF)

(1:25)



Section in Ground Beam and Ground Slab



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MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTM

NOTES:

PROJECT NAME:
مشاريع لطاع بيت لحم

DRAWING NAME:
Ground Beam Layout and Reinforcement

Architect:
EMAN ELHALLAQ SALWA ABI
HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

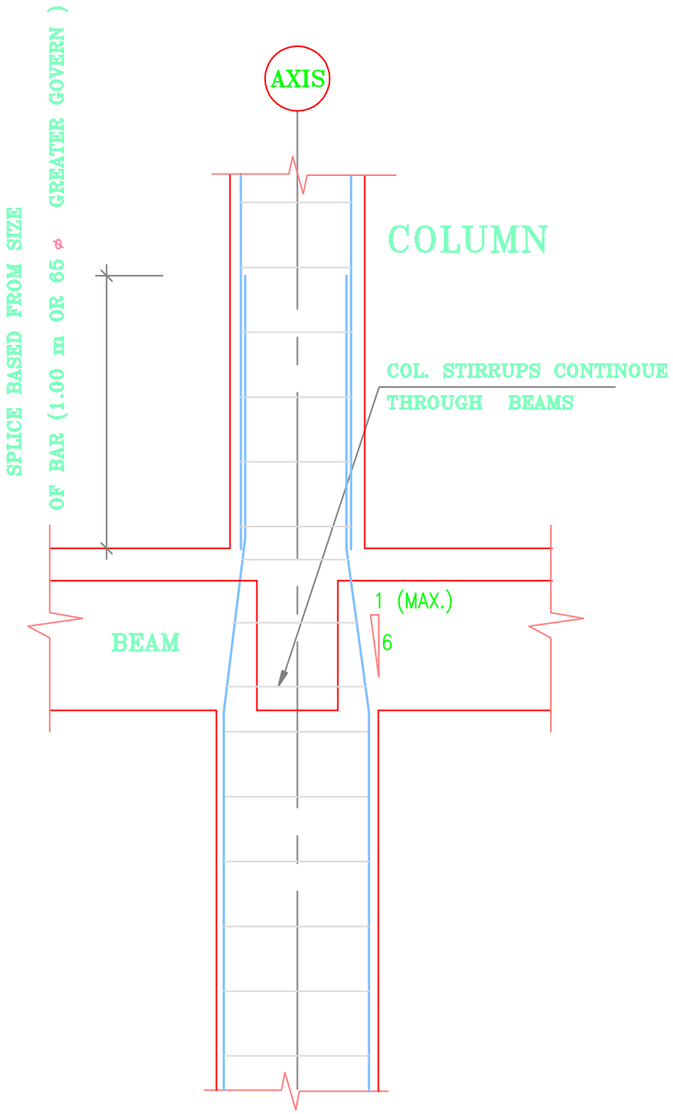
Electrical:
Mohamed Abu Al Naser

Mechanical:
Ezzat Abu Jalhom

Director of Engineering &Development Departme
ENG. MOHAMMAD ABU HAMD

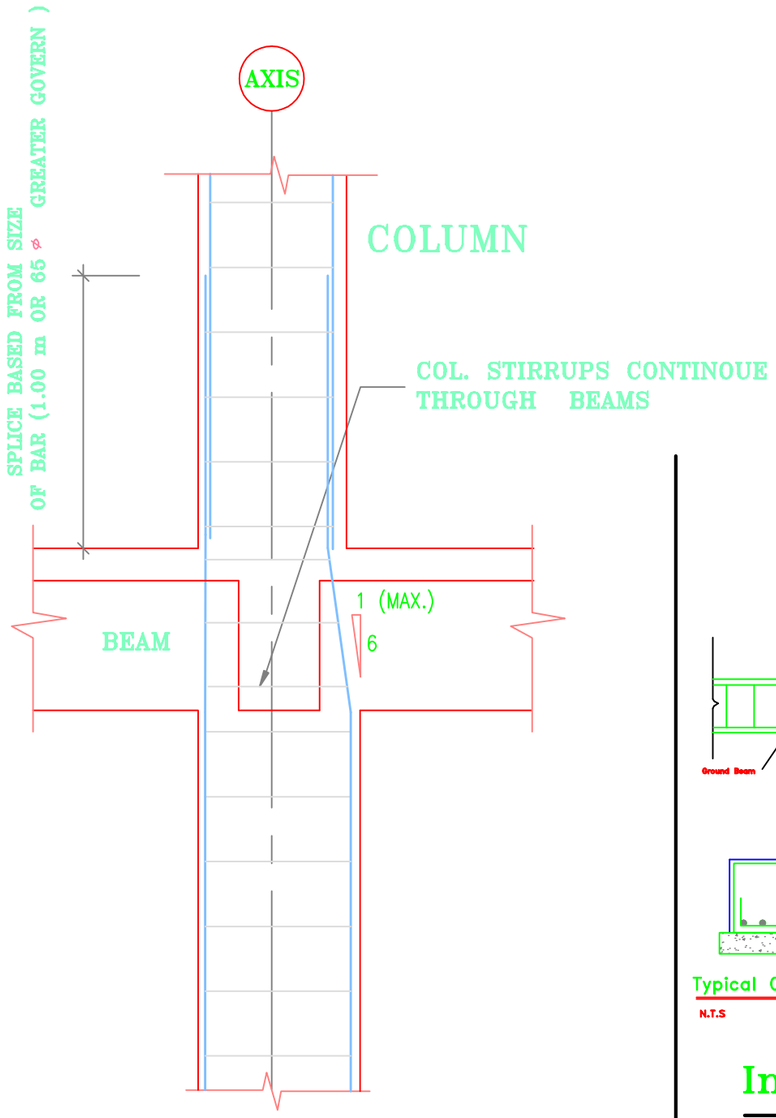
General Director of Engineering & Maintena
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	
C	1	2	As Shown	Jan



COL. REDUCTION FROM BOTH EDGES

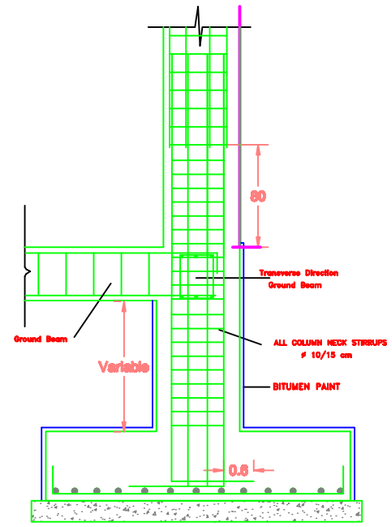
N.T.S



COL. REDUCTION FROM ONE EDGE

N.T.S

Longitudinal Section in Column



Typical Column neck column detail

N.T.S

Important Notes

1. Beams Stirrups ends at the column face.
2. Column Stirrups Continue through the beam.
3. Column Stirrups through the first meter of the column height spaced at 10 cm.
4. Column Stirrups after the first meter of the column height spaced at 20 cm.
5. Column Stirrups through the last meter of the column height spaced at 10 cm.

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
مشاريع المطلع بيوت

DRAWING NAME:
Longitudinal Section in Column

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

Electrical:
Mohamed Abu Al Naser

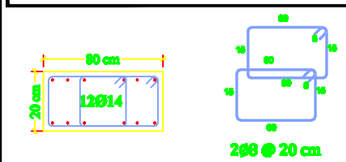
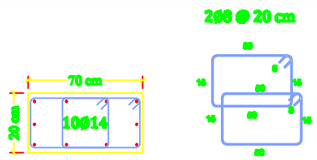
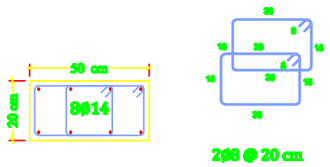
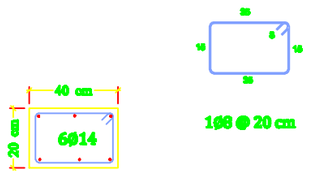
Mechanical:
Ezzat Abu Jalhom

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
C	1	1	As Shown	Jan. 2015

Columns Design Table

TYPE	COLUMNS	NO.	Ground Floor and Repeated
GC1	14 -17 - 18	3	
GC2	6,7,10, 11,21,22	6	
GC3	3,8,12, 13,15, 16,19, 23	8	
GC4	1,2,4,5 ,9,20, 24,25	8	

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
كاوري لطع بيوبح

DRAWING NAME:
Columns Design Table

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

Electrical:
Mohamed Abu Al Nasar

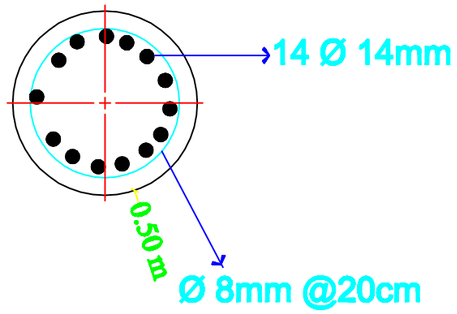
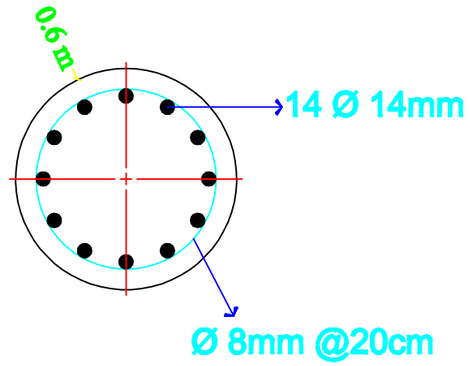
Mechanical:
Ezzat Abu Jalhom

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HANDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
C	1	0	As Shown	Jan. 2015

Piles Group Table

Group No.	1, 2, 3, 4, 5, 8, 9, 12, 13, 14, 15, 16, 17, 18, 19, 20, 23, 24, 25,	6, 7, 10, 11, 21, 22, E
Diameter (m)	50 cm	60 cm
Reinforcement	14Ø14mm	16Ø14mm
Stirrup	1Ø8mm/15cm	1Ø8mm/15cm
Depth	9 m	12 m
Section		

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
كادر لطع بيوبيح

DRAWING NAME:
Piles Group Table

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL

Civil:
Ruba Maqdad
Abdelqader Shurrab

Electrical:
Mohamed Abu Al Naser

Mechanical:
Ezzat Abu Jalhom

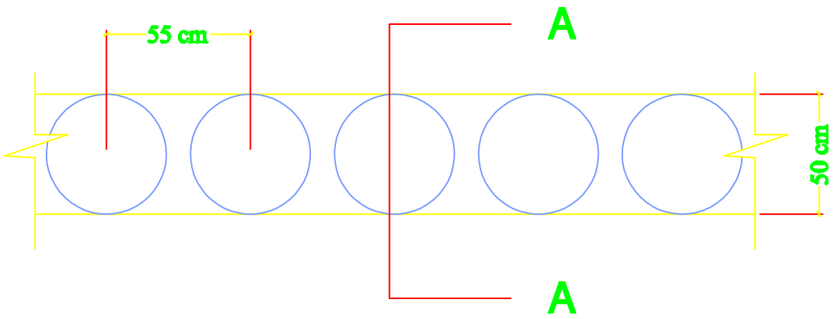
Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

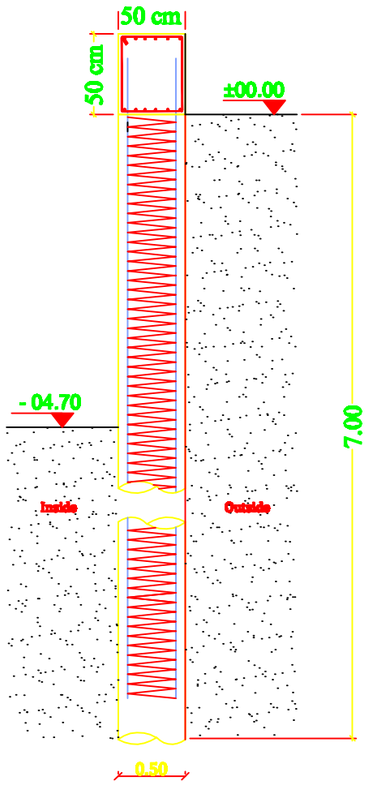
DRAWING NO.			SCALE	DATE
C	0	3	As Shown	Jan. 2015

Protection Piles

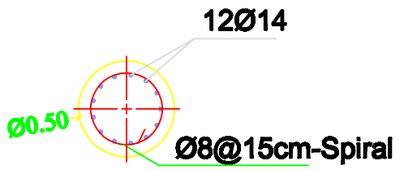
Top View - Layout of Piles



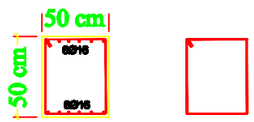
Section A-A
Longitudinal Section in Pile



Pile Cross Section



Section in Tie Beam



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MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTM

NOTES:

PROJECT NAME:
كدايع لطع بيوبيح

DRAWING NAME:
Protection (Secant) Piles

Architect:
EMAN ELHALLAQ SALWA ABI
HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

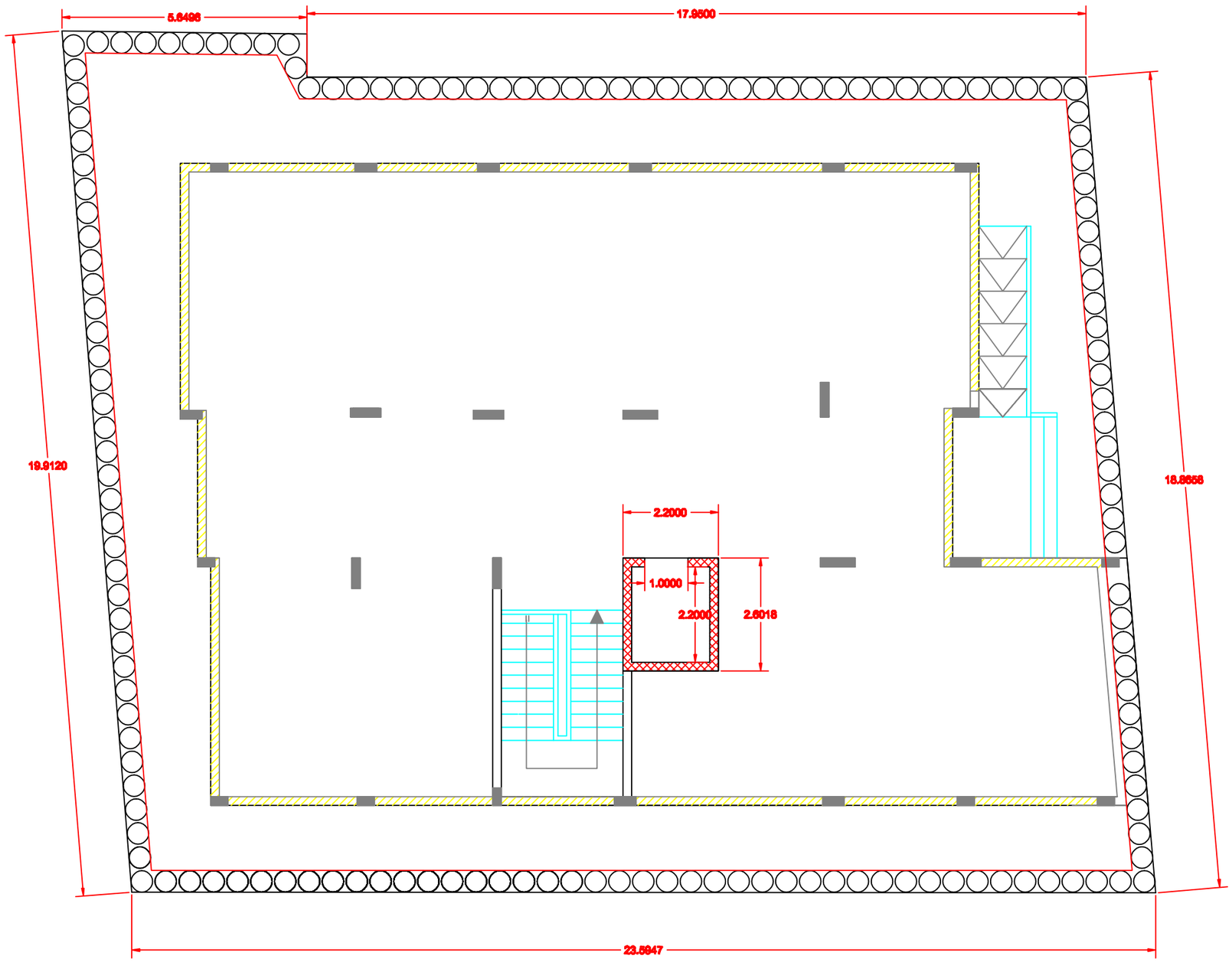
Electrical:
Mohamed Abu Al Naser

Mechanical:
Ezzat Abu Jalhom

Director of Engineering &Development Departme
ENG. MOHAMMAD ABU HAMD

General Director of Engineering & Maintena
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	
C	0	6	As Shown	Jan



PALESTINIAN NATIONAL AUTHORITY

MINISTRY OF HEALTH

ENG. & MAINTENANCE ADMINISTRATION

ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:

مشاريع لطرح بعيبح

DRAWING NAME:

Protection Piles Layout

Architect:

EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

Ruba Meqdad

Abdelqader Shurrab

Electrical:

Mohamed Abu Al Naser

Mechanical:

Ezzat Abu Jalhom

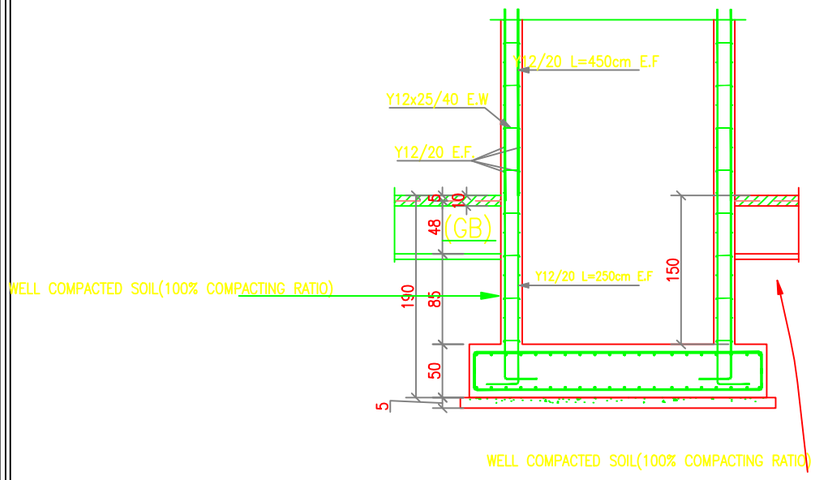
Director of Engineering Office &Development Department:

ENG. MOHAMMAD ABU HAMDA

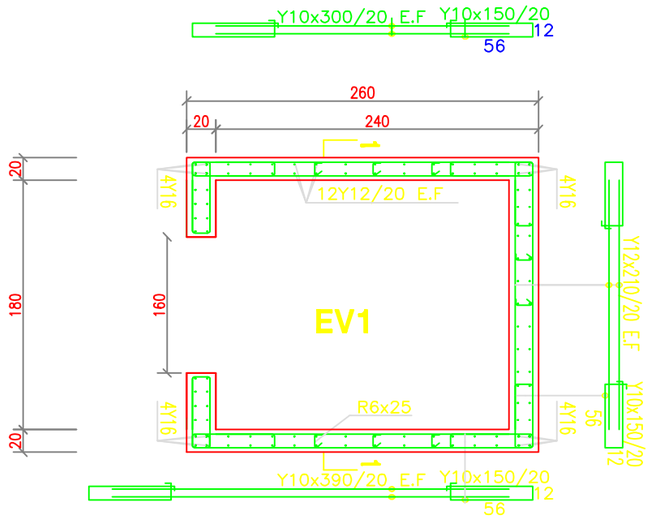
General Director of Engineering & Maintenance:

ENG. BASSAM ALHMADEEN

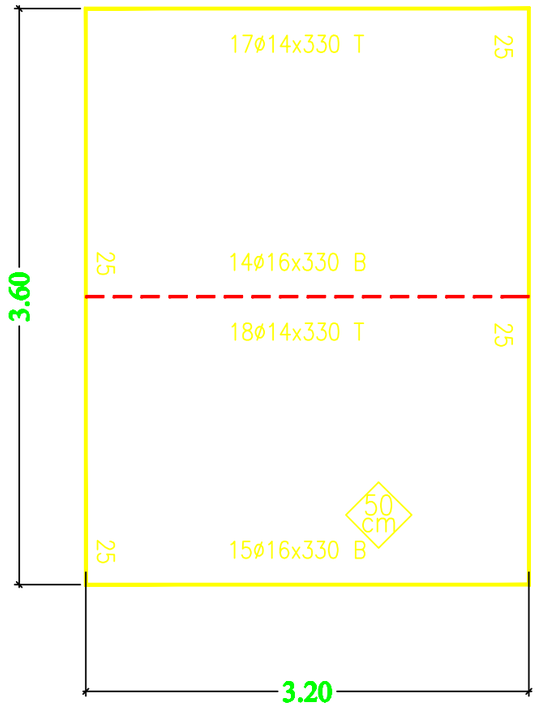
DRAWING NO.			SCALE	DATE
C	0	7	As Shown	Jan. 2015



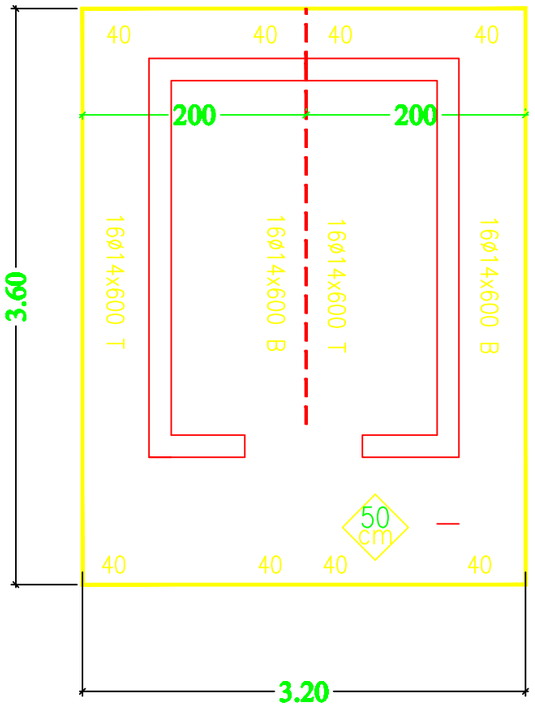
Sec. 1 - 1



Elevator Footing and Walls Details - 1



X-Strips



Y-Strips

Note:

These Detail;s are for Demonstration of Steel Reinforcement and Not to Scale

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
كاوع اطع بيوبيح

DRAWING NAME:
Elevator Footing and Walls Reinforcement Details

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

Electrical:
Mohamed Abu Al Naser

Mechanical:
Ezzat Abu Jalbom

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

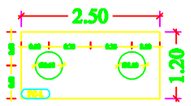
General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

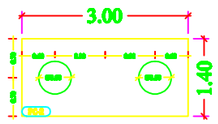
DRAWING NO.			SCALE	DATE
C	0	6	As Shown	Jan. 2015

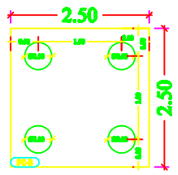
Caps Groups Table

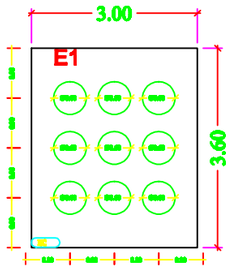
GROUP	FOR COLUMNS	FOOTING DIMENSIONS (cm)			REINFORCEMENT	
		L	B	h	2way bottom	2way top
PC-1	1-2-3-4-5-8-9-12-13-15-16 19-20-23-24-25	250	120	100	10ø16	10ø14
PC-2	6-7-10-11-21-22	300	140	100	10ø16	10ø14
PC-3	14-17-18	250	250	100	10ø16	10ø14

Pile Caps Dimensions









PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
كادر اطلع بيوبيح

DRAWING NAME:
Pile Caps Group Table

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Sturrab

Electrical:
Mohamed Abu Al Naser

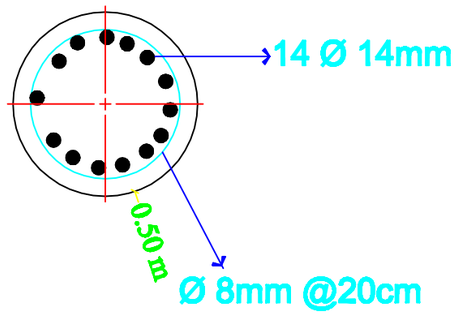
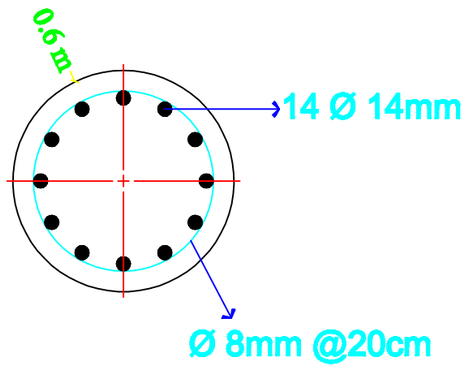
Mechanical:
Ezzat Abu Jalbom

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
C	0	4	As Shown	Jan. 2015

Piles Group Table

Group No.	1, 2, 3, 4, 5, 8, 9, 12, 13, 14, 15, 16, 17, 18, 19, 20, 23, 24, 25,	6, 7, 10, 11, 21, 22, E
Diameter (m)	50 cm	60 cm
Reinforcement	14Ø14mm	16Ø14mm
Stirrup	1Ø8mm/15cm	1Ø8mm/15cm
Depth	9 m	12 m
Section		

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
كاوع اطع بيوبح

DRAWING NAME:
Piles Group Table

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

Electrical:
Mohamed Abu Al Naser

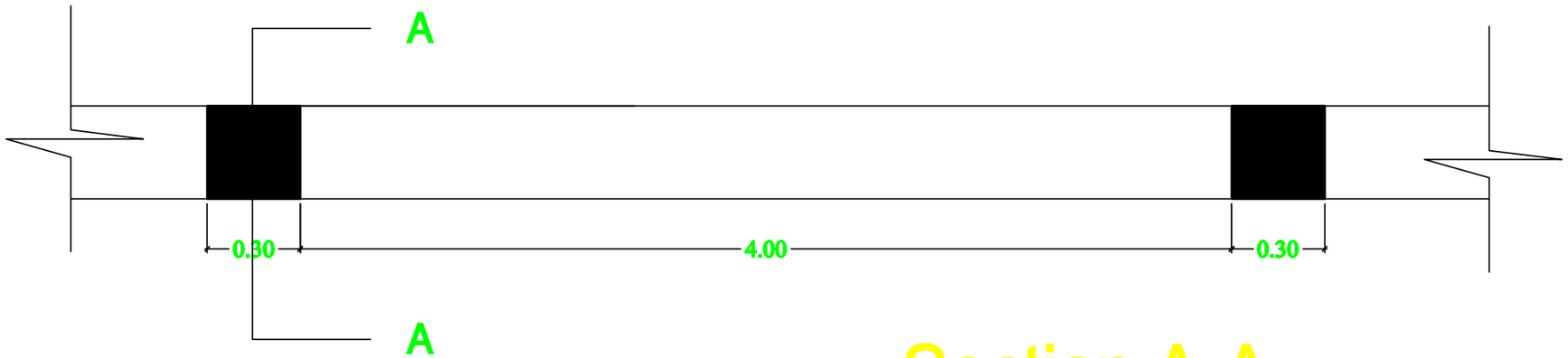
Mechanical:
Ezzat Abu Jalhom

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

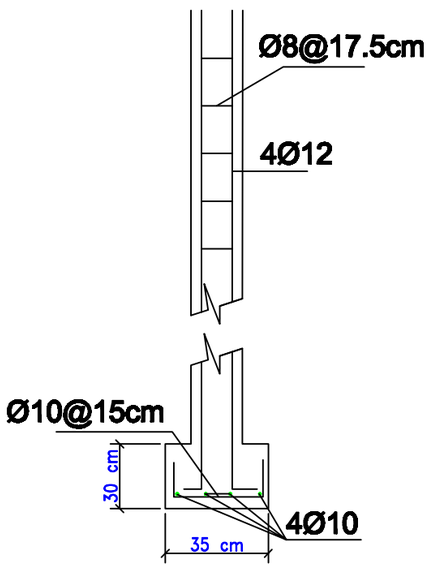
General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
C	0	3	As Shown	Jan. 2015

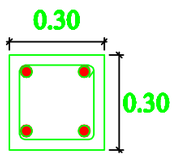
Boundry Wall Details



Section A-A



Section in Boundary Wall Column



PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
كفاوح لطرح بجوبح

DRAWING NAME:
Boundary Wall Details

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Ruba Meqdad
Abdelqader Shurrab

Electrical:
Mohamed Abu Al Naser

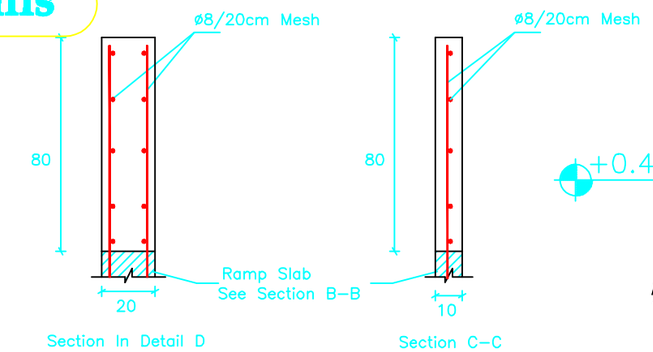
Mechanical:
Ezzat Abu Jalhom

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

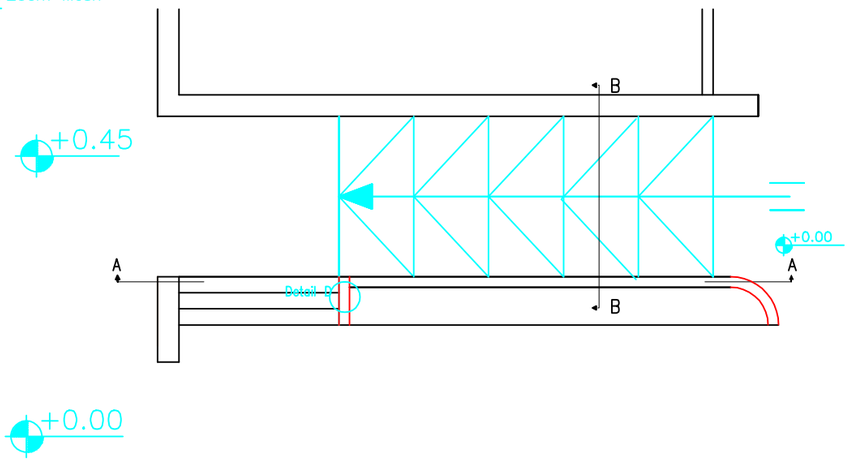
General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

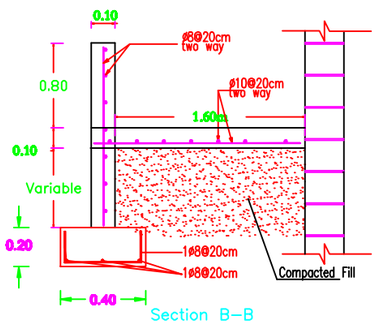
DRAWING NO.			SCALE	DATE
C	2	9	As Shown	Jan. 2015

Ramp Details



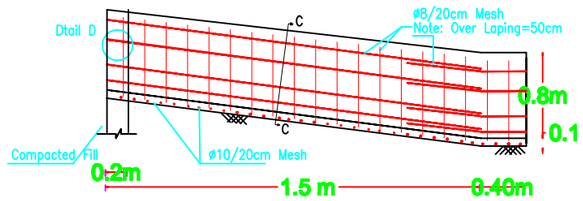
Detailes of Ramps Reinft. Concrete Wall





Section B–B

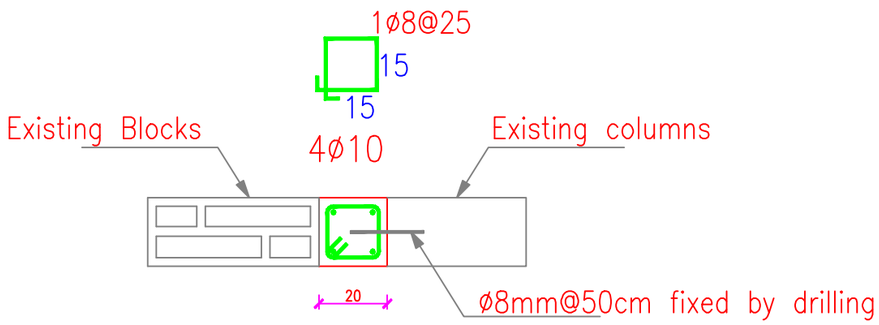
Section in Ramp



Section A–A

SCALE 1:50

Post Columns Details



PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
كاوج اطلع بيوبيح

DRAWING NAME:
Concrete Details - 2

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:
Rube Meqdad
Abdelqader Shurrab

Electrical:
Mohamed Abu Al Naser

Mechanical:
Ezzat Abu Jalhom

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
C	2	8	As Shown	Jan. 2015

Electrical Drawings

	Fluorescent Fixture 2x36 watt		Double water proof pole switch	TV	TV Socket
	Fluorescent Fixture water proof 2x36 watt		Three water proof pole switch		Satellite Socket
	Fluorescent Fixture 1x36 watt		SHU mounted, Single Pole Switch		Computer Socket
	Fluorescent Fixture water proof 1x36 watt		Fixel pole fixel switch		VGA Connector
	Cell Mounted Globe		Double pole fixel switch		COMPUTER MAIN RACK
	Wall Mounted Globe		Three poles fixel switch		COMPUTER Local RACK
	Flood light 400 W		Double pole WP fixel switch		Telephone box
	Flood light 250 W	fe	Ceilling Fan speed controller	S	Smoke Detector
	Wall mounted Red Globe for Dark room		Stair case push button	H	Heat Detector
RED	Red Globe for Dark room		Single Phase isolating switch	BG	Fire Alarm Call Point (Break Glas)
	Spot lamp 2x13 watt		three phase isolating switch	FACP	Fire Alarm Control Panel
	Ceilling Fan		Single socket outlet 3pin 16A		Fire Alarm Bell
	Extract Fan 6"		double socket outlet 3pin 16A		External Fire Alarm Siren with Flascher
	Extract Fan 8"		socket outlet 3pin 16A Water proof	EXIT	Exit Sign
	Extract Fan 15"	RACK	socket outlet 3pin 16A inside the rack	EXIT	Emergency Exit Sign
	Single pole switch	ab	socket outlet 3pin 16A above falseCeilling		PVC pipe 6"
	Double pole switch		Ceilling mounted socket outlet 3pin 16A		Main Distribution Board M.D.B
	Three pole switch		Double Ceilling mounted socket outlet 3pin 16A		Sub Distribution Board S.D.B
	Four pole switch		three phases socket outlet		Earthing Manhole 60 cm With Cu. Electrode R<2 ohm
	Single water proof pole switch		Cable for socket outlet 3pin 16A of Bed Head Unit		Manhole for underground electrical cables 100 cm
FCU	Single pole Heater switch		Telephone Socket	4"	PVC pipe 4"
		RACK	Telephone Socket inside Rack		

PVC pipe 6"

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
Legend

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

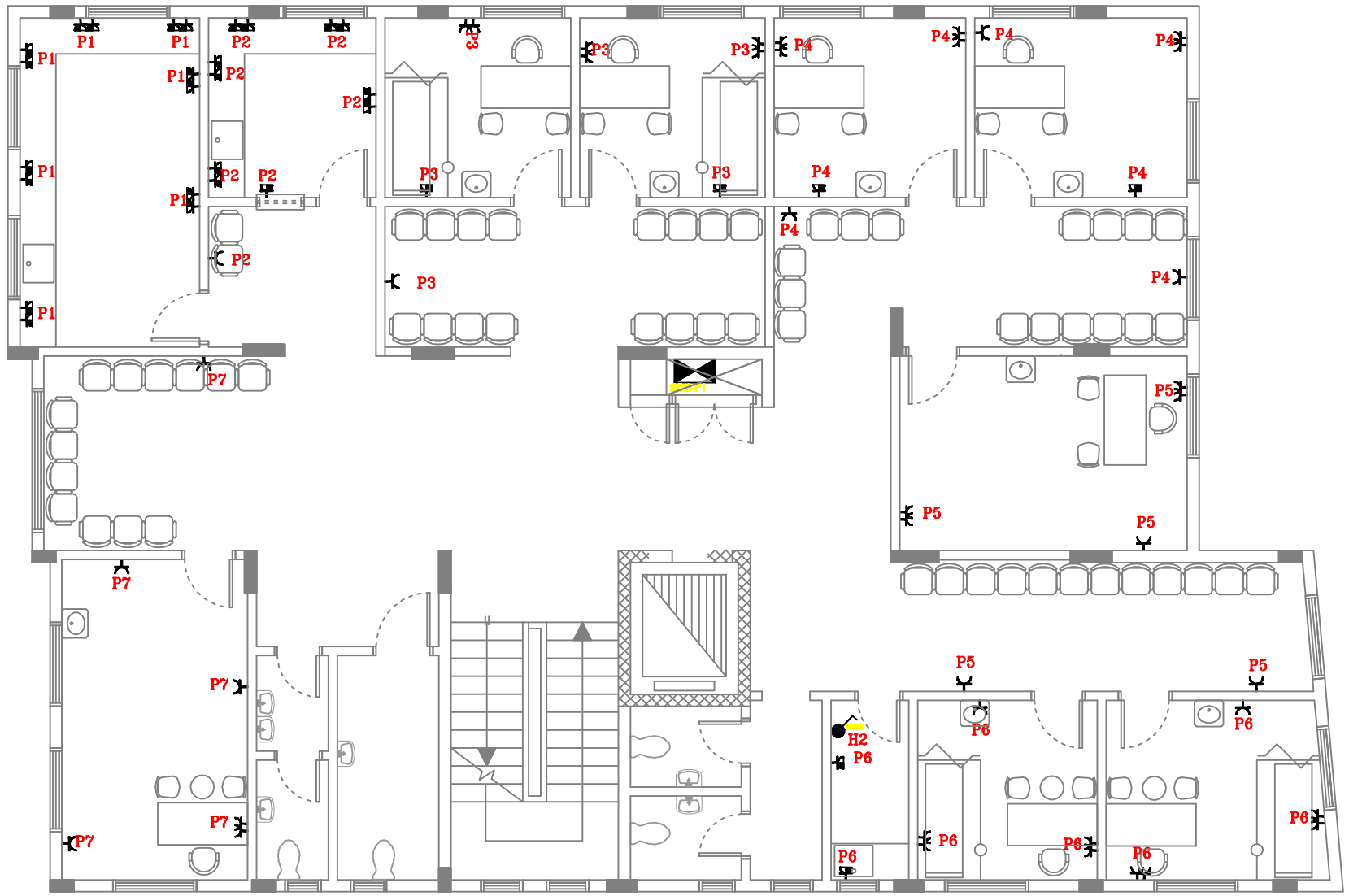
Electrical:
TALAL DEEB, MOHAMED ABU NASR

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
E	0	0	As Shown	AUG. 2014



PALESTINIAN NATIONAL AUTHORITY

MINISTRY OF HEALTH

ENG. & MAINTENANCE ADMINISTRATION

ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:

عيادة عطا حبيب

DRAWING NAME:

First Floor
Power Sockets & A/C

Architect:

EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

Electrical:

TALAL DEEB, MOHAMED ABU NASR

Mechanical:

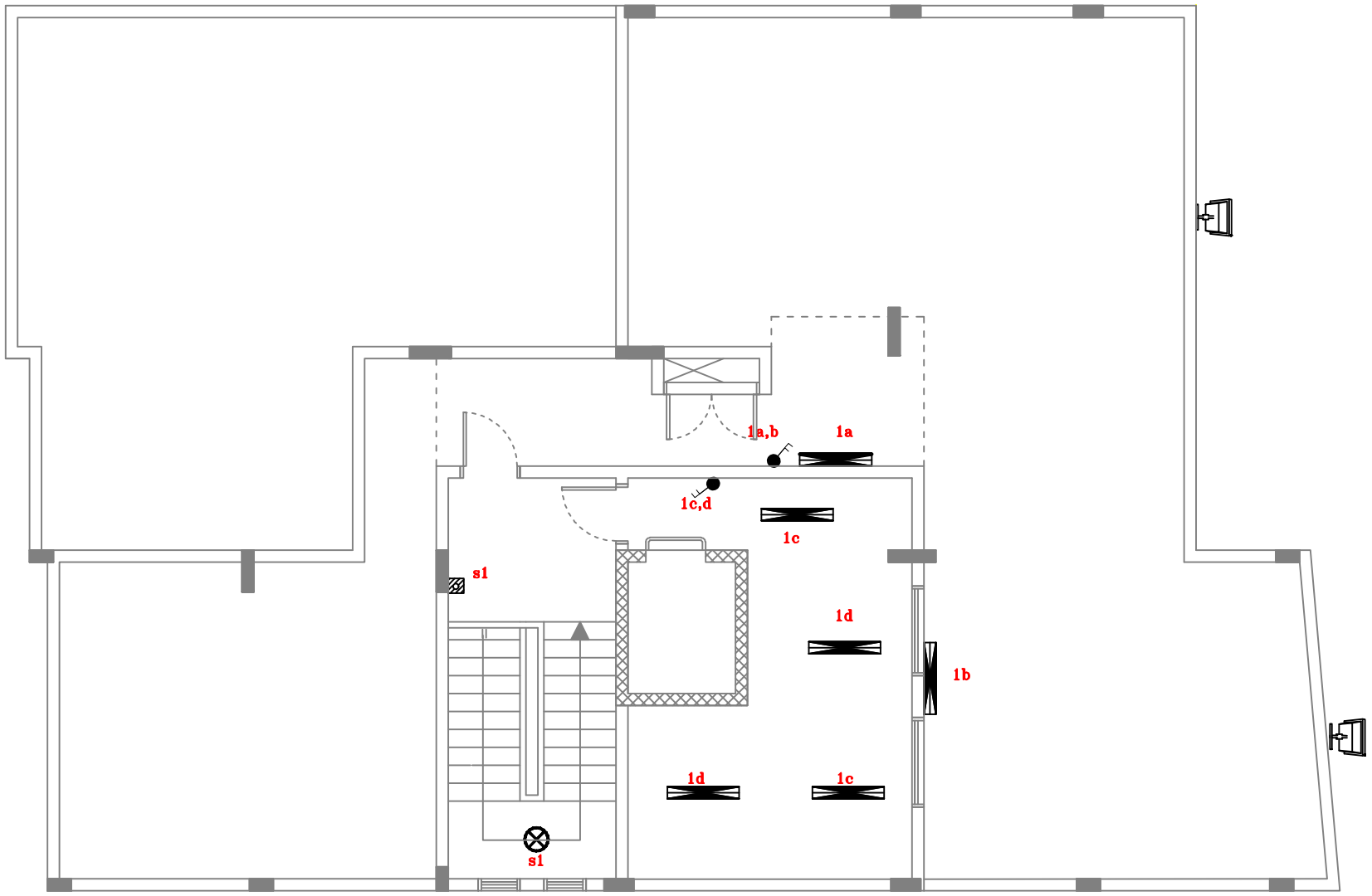
Director of Engineering Office &Development Department:

ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:

ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
E	0	8	As Shown	AUG. 2014



PALESTINIAN NATIONAL AUTHORITY

MINISTRY OF HEALTH

ENG. & MAINTENANCE ADMINISTRATION

ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:

عيادة عطا حبيب

DRAWING NAME:

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

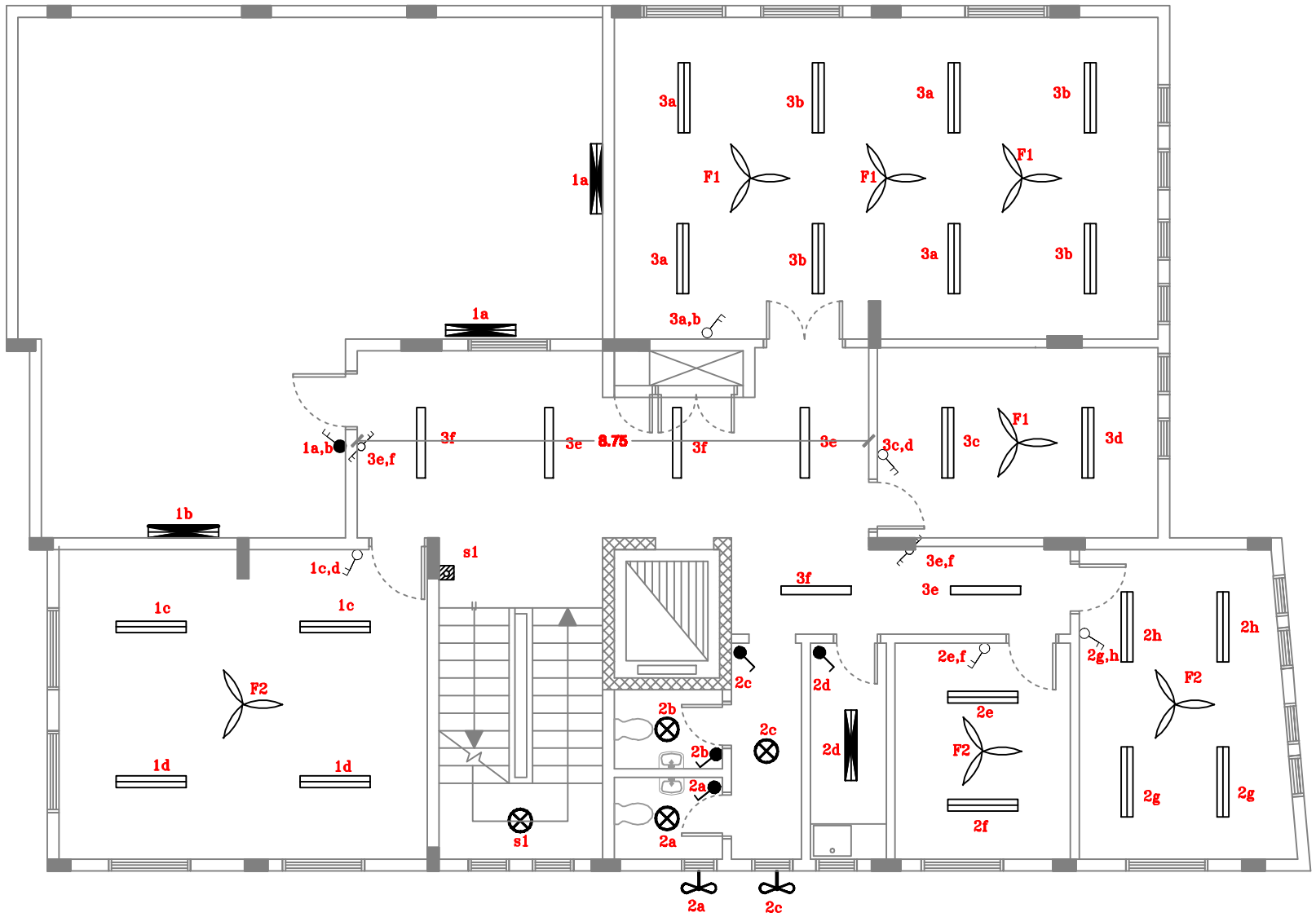
Electrical:
TALAL DEEB, MOHAMED ABU NASR

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
E	0	5	As Shown	AUG. 2014



PALESTINIAN NATIONAL AUTHORITY

MINISTRY OF HEALTH

ENG. & MAINTENANCE ADMINISTRATION

ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:

عيادة عطا حبيب

DRAWING NAME:

Second Floor Lighting & Fans

Architect:

EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

Electrical:

TALAL DEEB, MOHAMED ABU NASR

Mechanical:

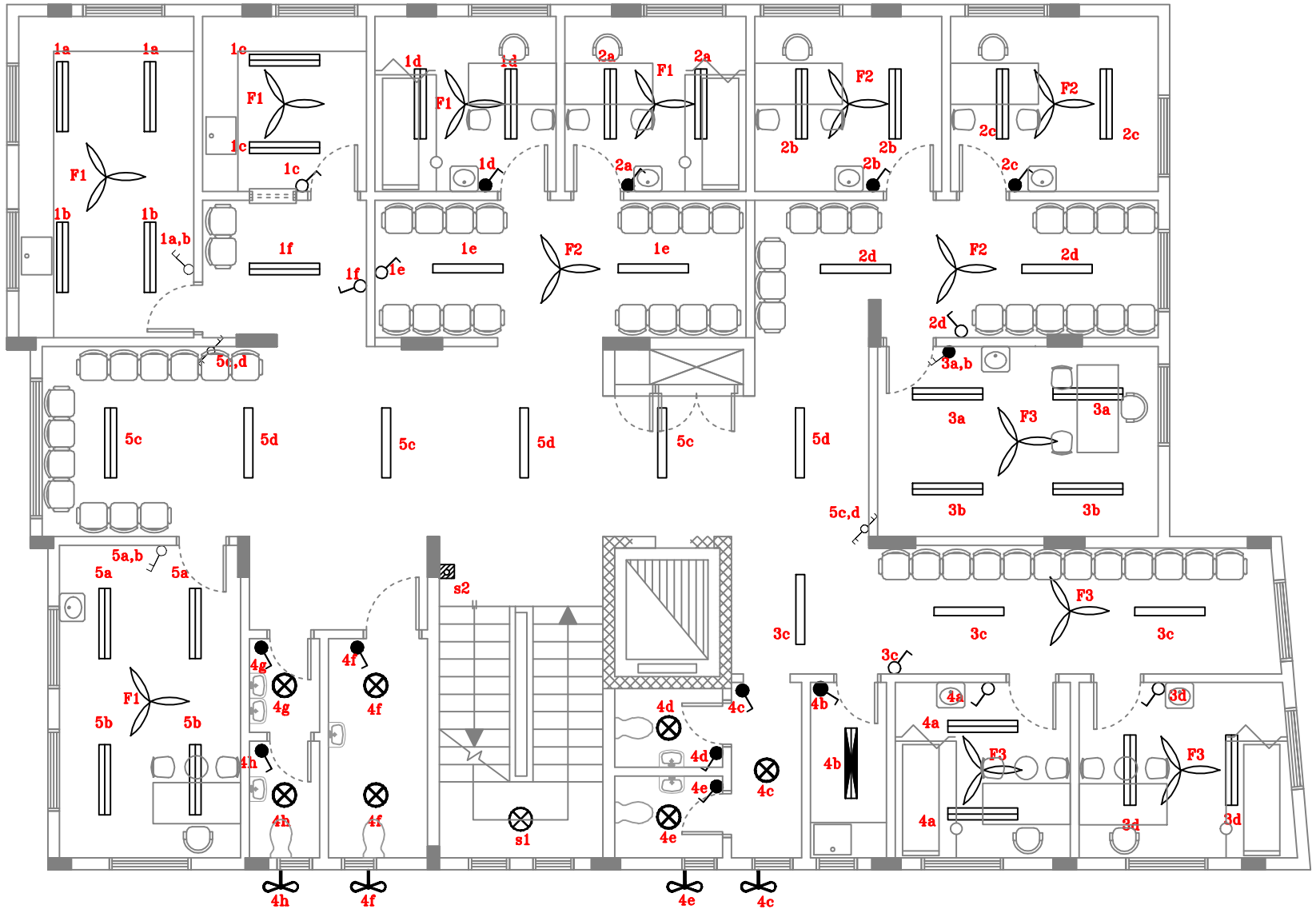
Director of Engineering Office &Development Department:

ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:

ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
E	0	4	As Shown	AUG. 2014



PALESTINIAN NATIONAL AUTHORITY

MINISTRY OF HEALTH

ENG. & MAINTENANCE ADMINISTRATION

ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:

عيادة عطا حبيب

DRAWING NAME:

First Floor Lighting & Fans

Architect:

EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

Electrical:

TALAL DEEB, MOHAMED ABU NASR

Mechanical:

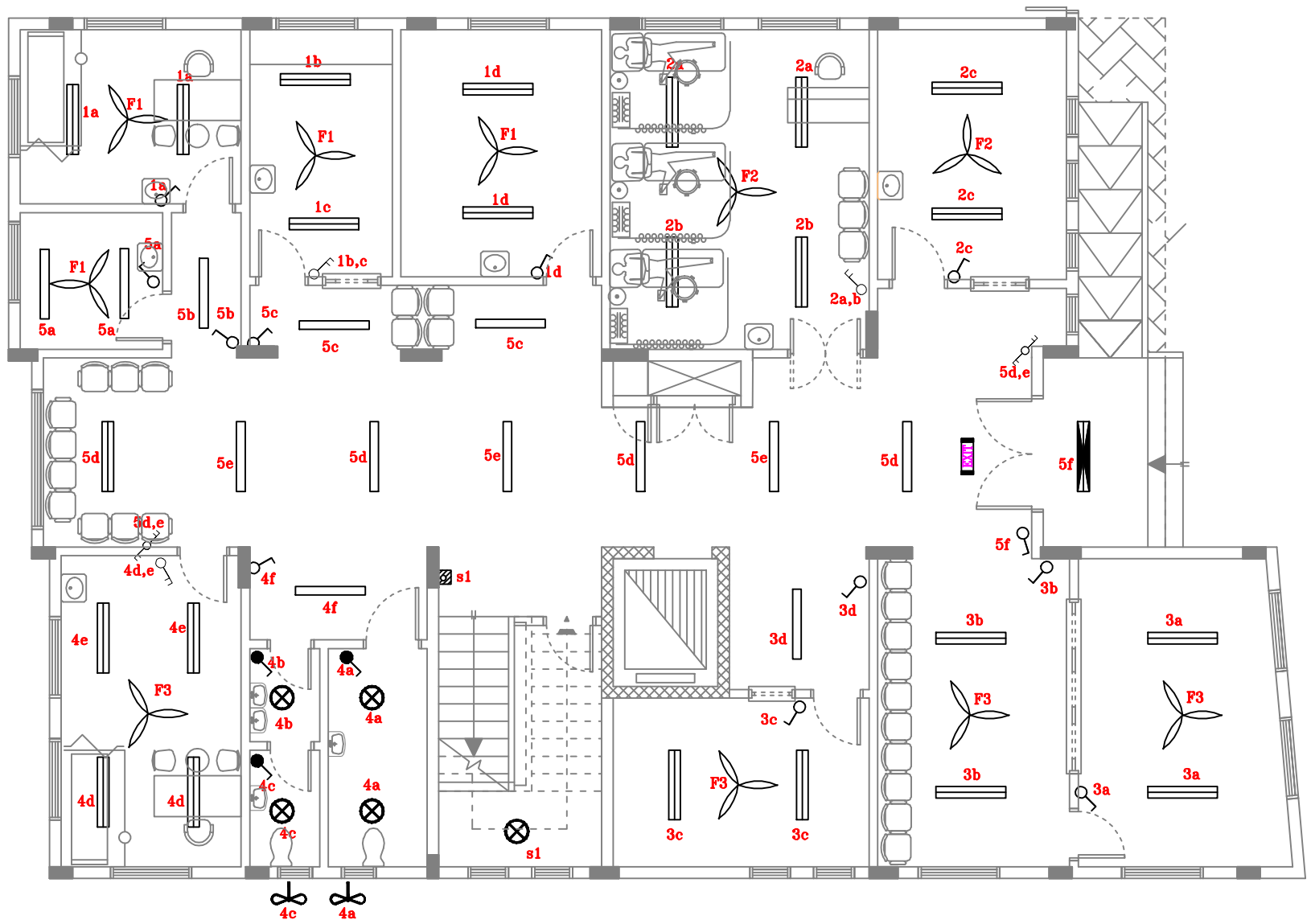
Director of Engineering Office &Development Department:

ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:

ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
E	0	3	As Shown	AUG. 2014



10

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
Ground Floor
Lighting & Fans

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

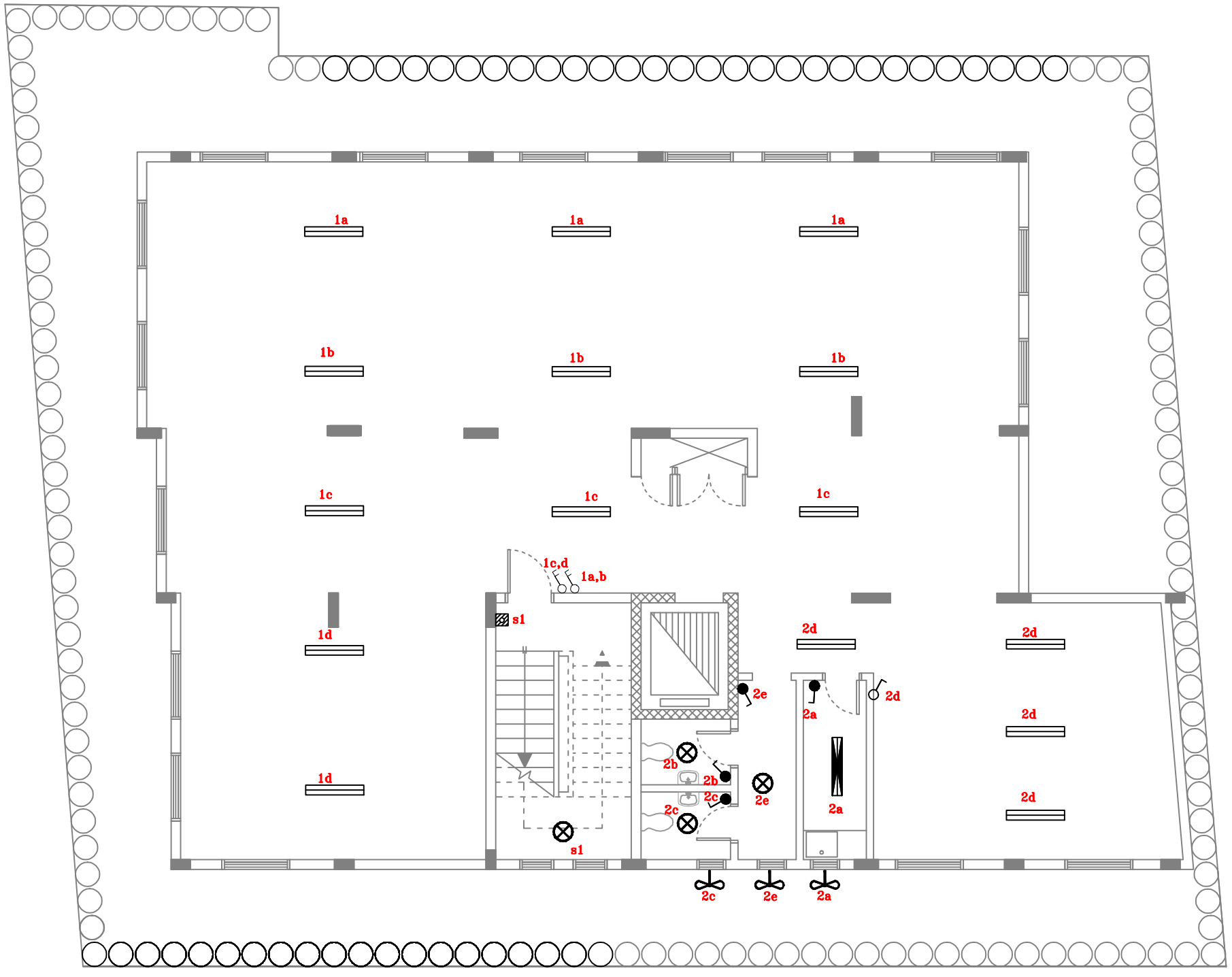
Electrical:
TALAL DEEB, MOHAMED ABU NASR

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
E	0	2	As Shown	AUG. 2014



PALESTINIAN NATIONAL AUTHORITY

MINISTRY OF HEALTH

ENG. & MAINTENANCE ADMINISTRATION

ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:

عيادة عطا حبيب

DRAWING NAME:

طابق التحت أرضي

Architect:

EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

Electrical:

TALAL DEEB, MOHAMED ABU NASR

Mechanical:

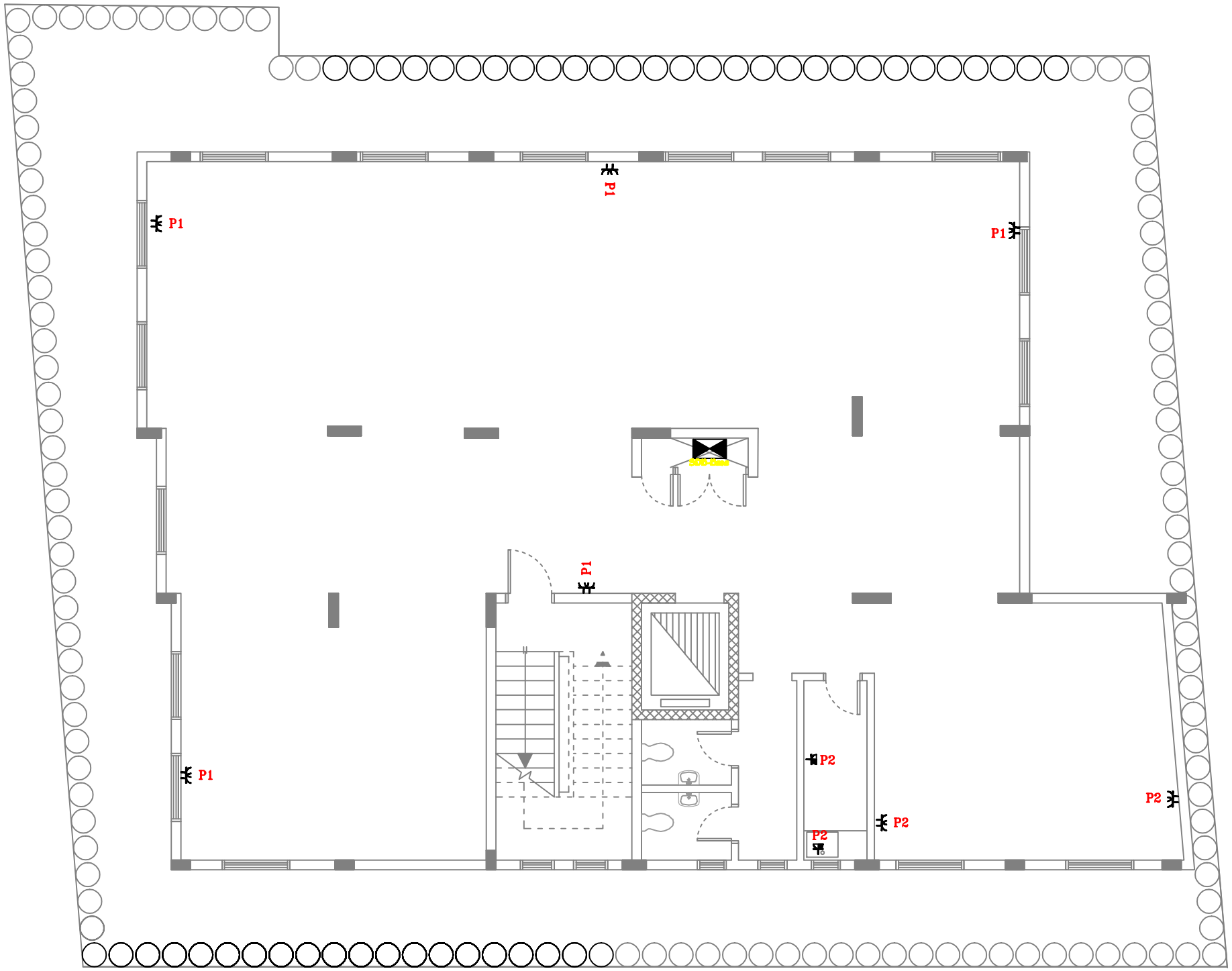
Director of Engineering Office &Development Department:

ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:

ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
E	0	1	As Shown	AUG. 2014



PALESTINIAN NATIONAL AUTHORITY

MINISTRY OF HEALTH

ENG. & MAINTENANCE ADMINISTRATION

ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:

عيادة عطا حبيب

DRAWING NAME:

طابق التحت أرضي

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

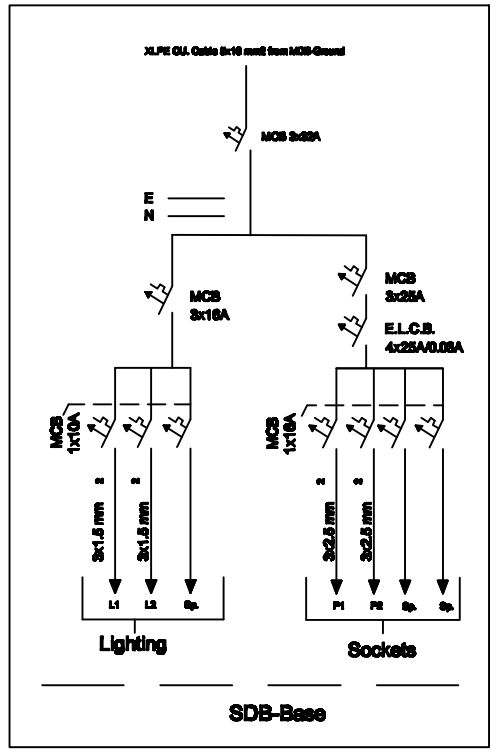
Electrical:
TALAL DEEB, MOHAMED ABU NASR

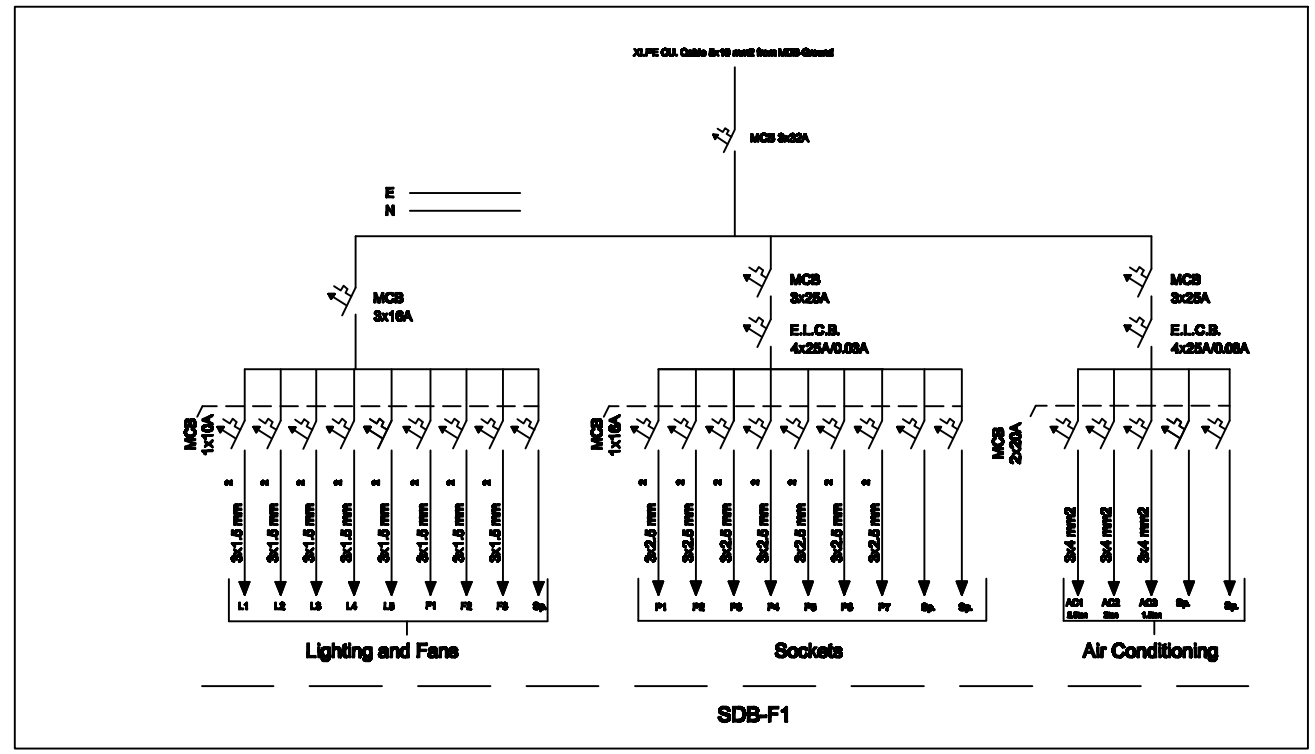
Mechanical:

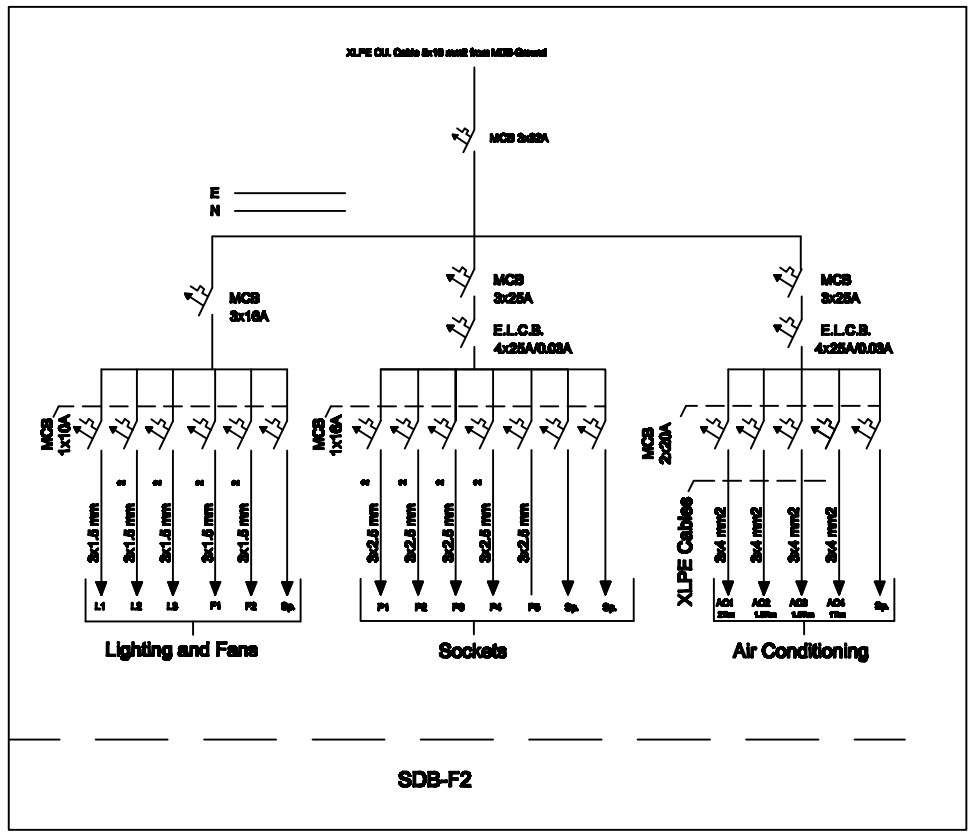
Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

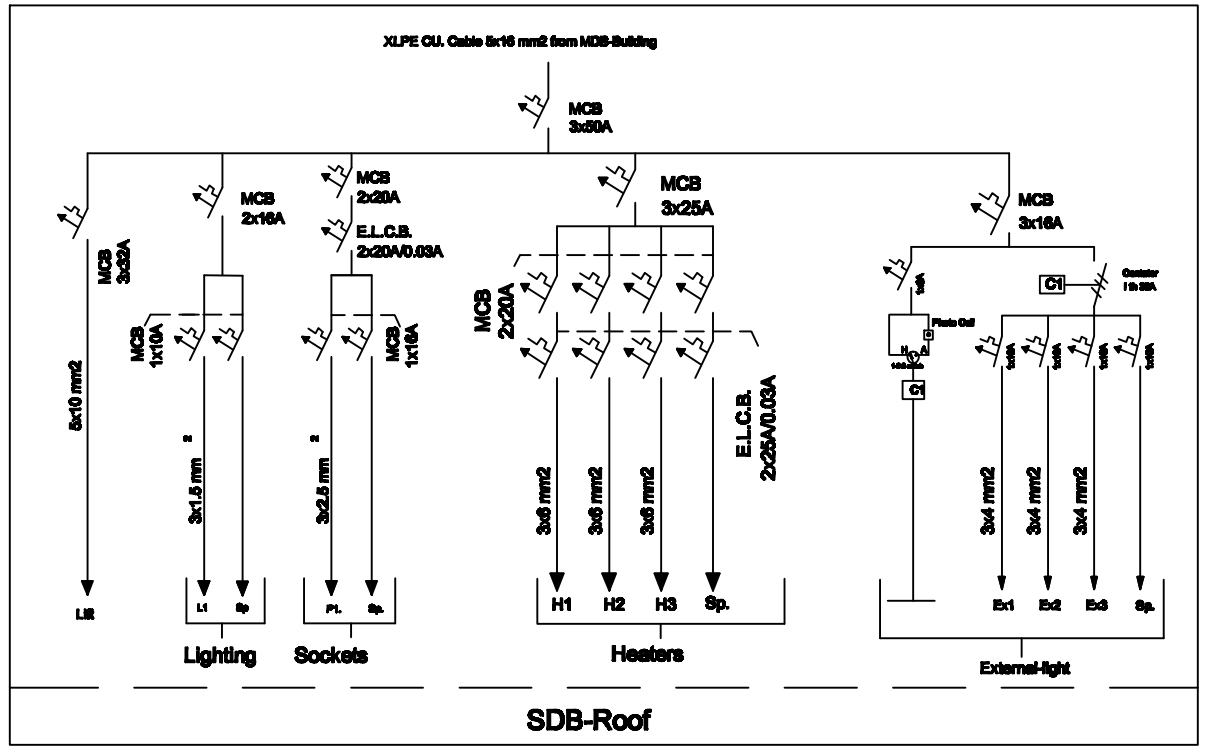
General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

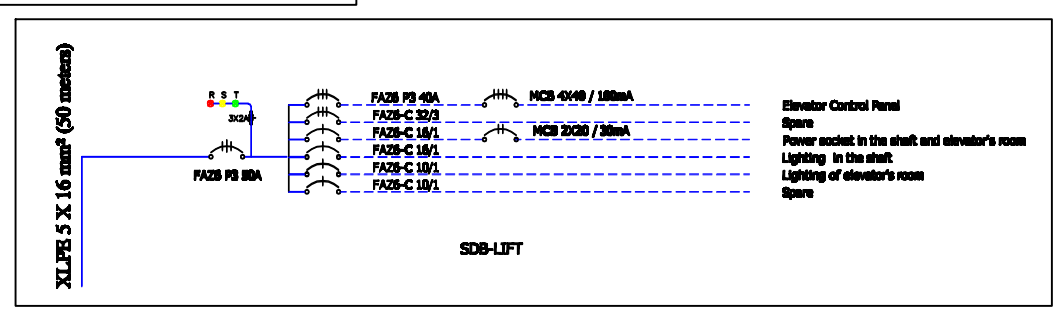
DRAWING NO.			SCALE	DATE
E	0	6	As Shown	AUG. 2014











PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
Single Line Diagram
SDB-F1, SDB-F2, SDB-Roof

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

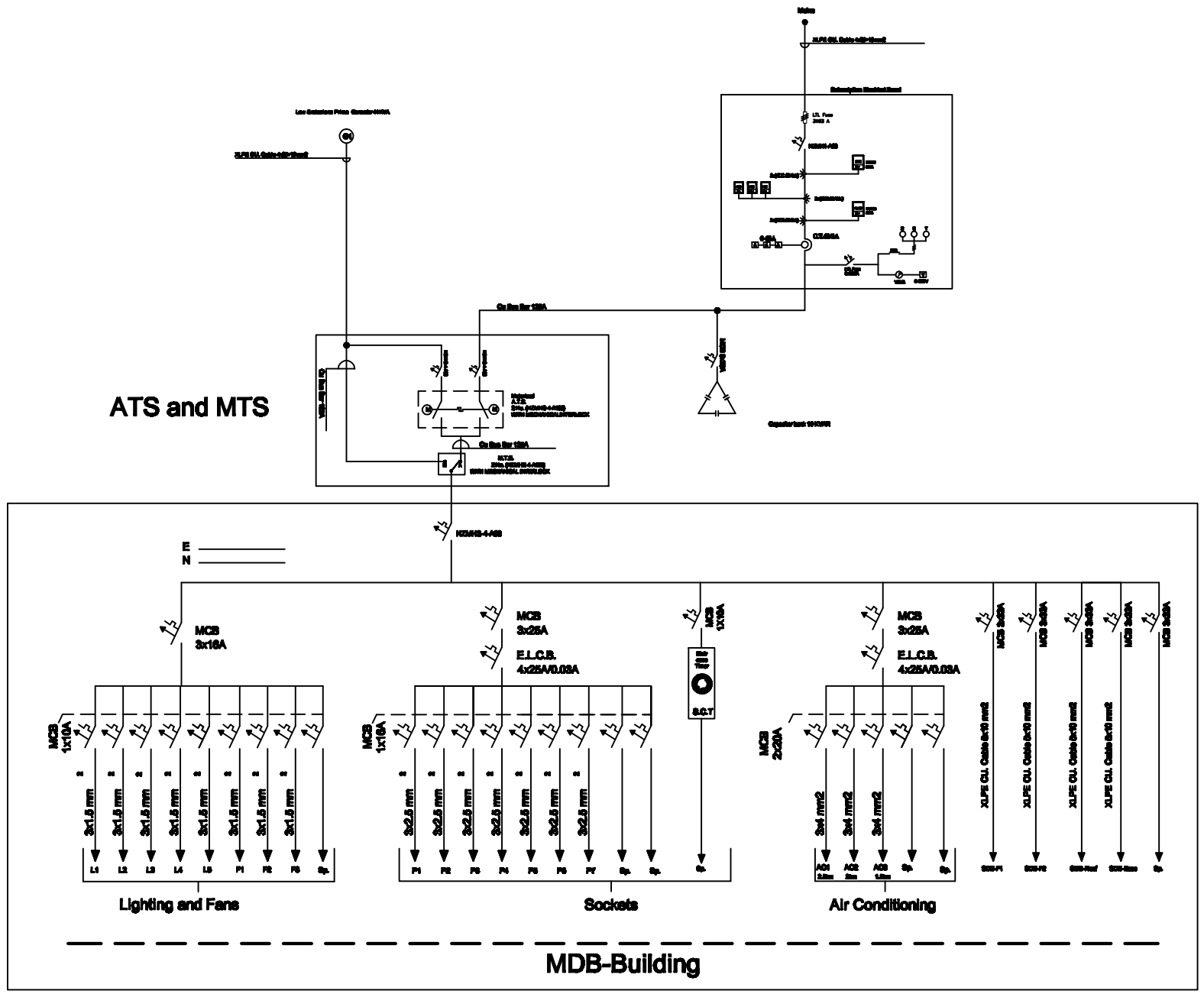
Electrical:
TALAL DEEB, MOHAMED ABU NASR

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMIDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
E	2	4	As Shown	AUG. 2014



MDB & ATS Panel

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
Single Line Diagram
MDB Panel

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

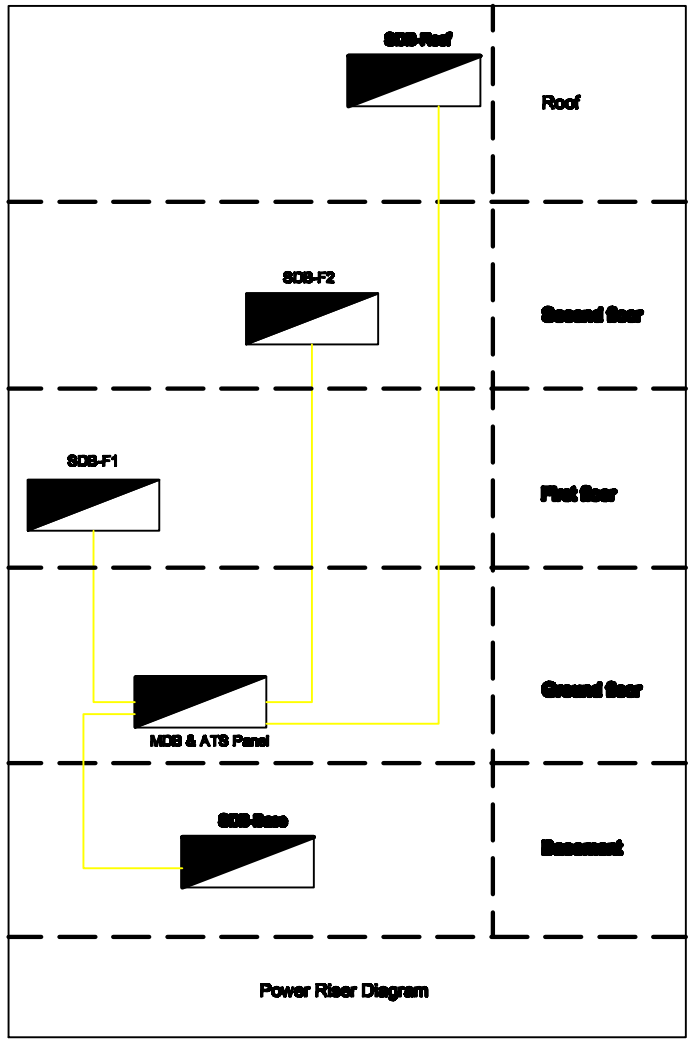
Electrical:
TALAL DEEB, MOHAMED ABU NASR

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
E	2	3	As Shown	AUG. 2014



Power Riser Diagram

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH

ENG. & MAINTENANCE ADMINISTRATION

ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:

DRAWING NAME:

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

Electrical:
TALAL DEEB, MOHAMED ABU NASR

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
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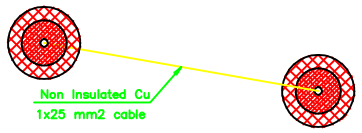
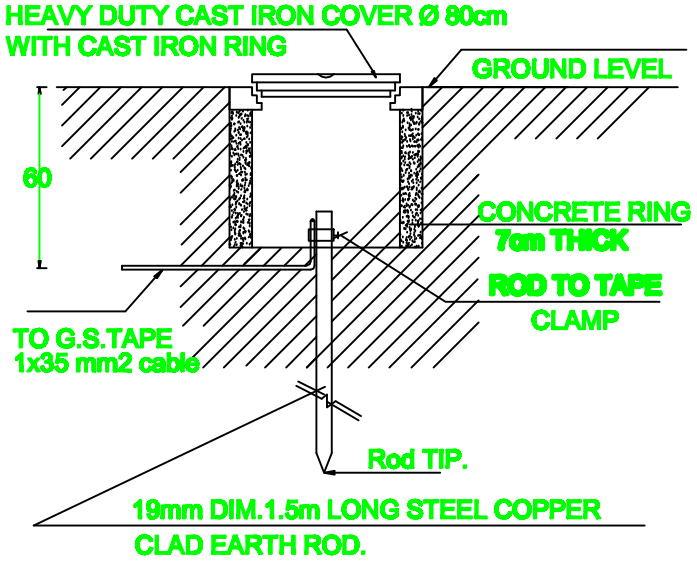
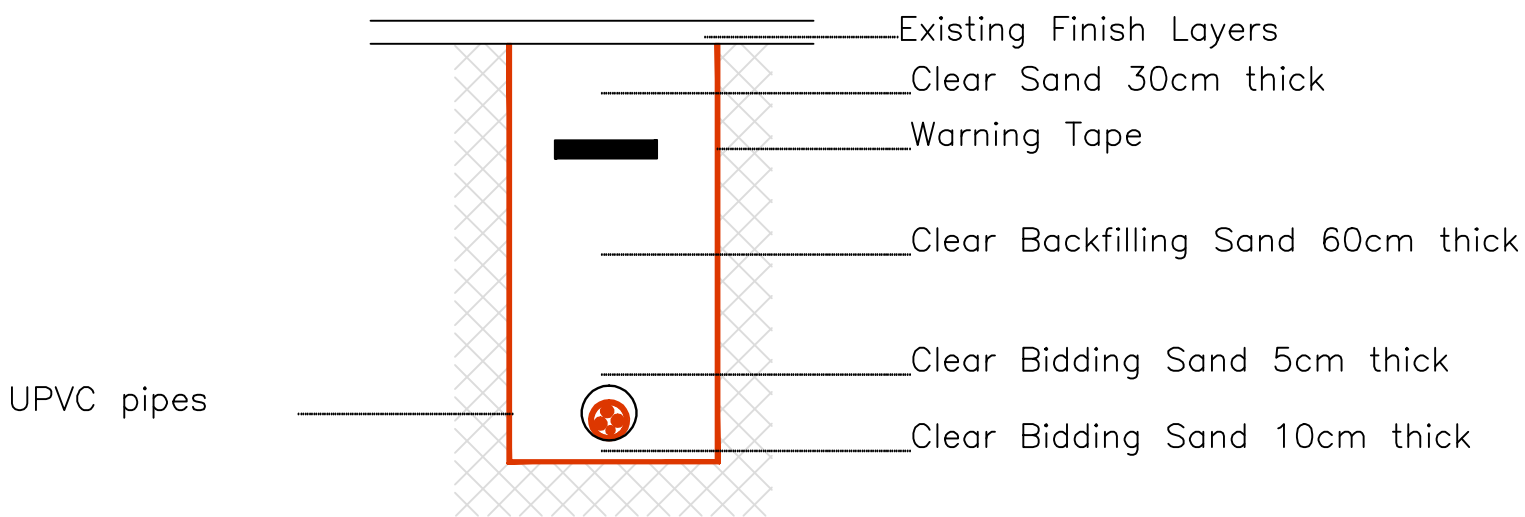


Note: Size of Non insulated cable, number and distances between electrodes, electrode specifications, number and distances between manholes, number of electrodes, and all necessery works must achive the earthing resistance which is less than 2 Ohm

Detail2/Earthing for Generators



Detail 1/Earthing Manhole Details



Detail 3/ Electrical Manhole Details

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
Details

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

Electrical:
TALAL DEEB, MOHAMED ABU NASR

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
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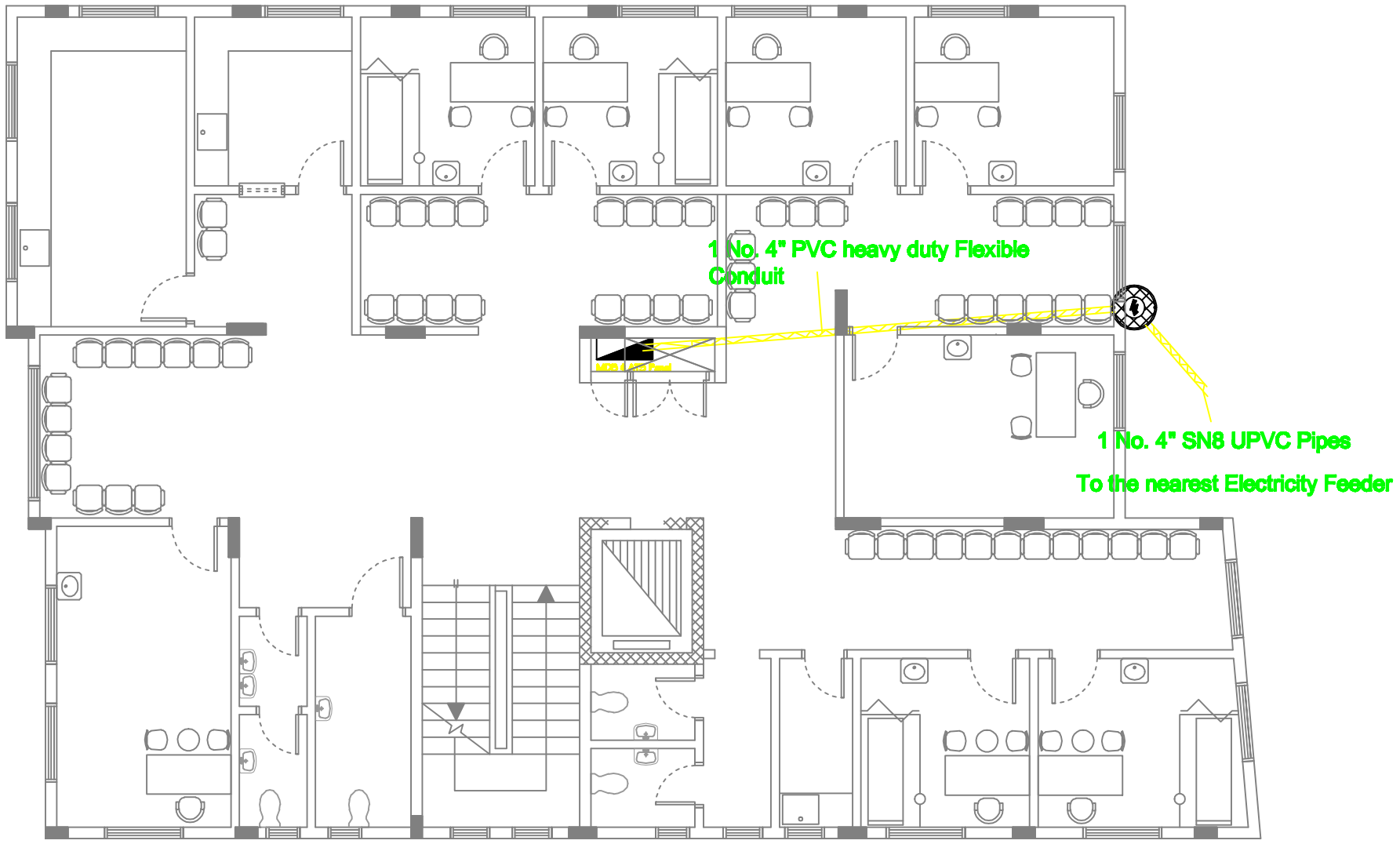

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Note: See Detail 3

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
Cable Route

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

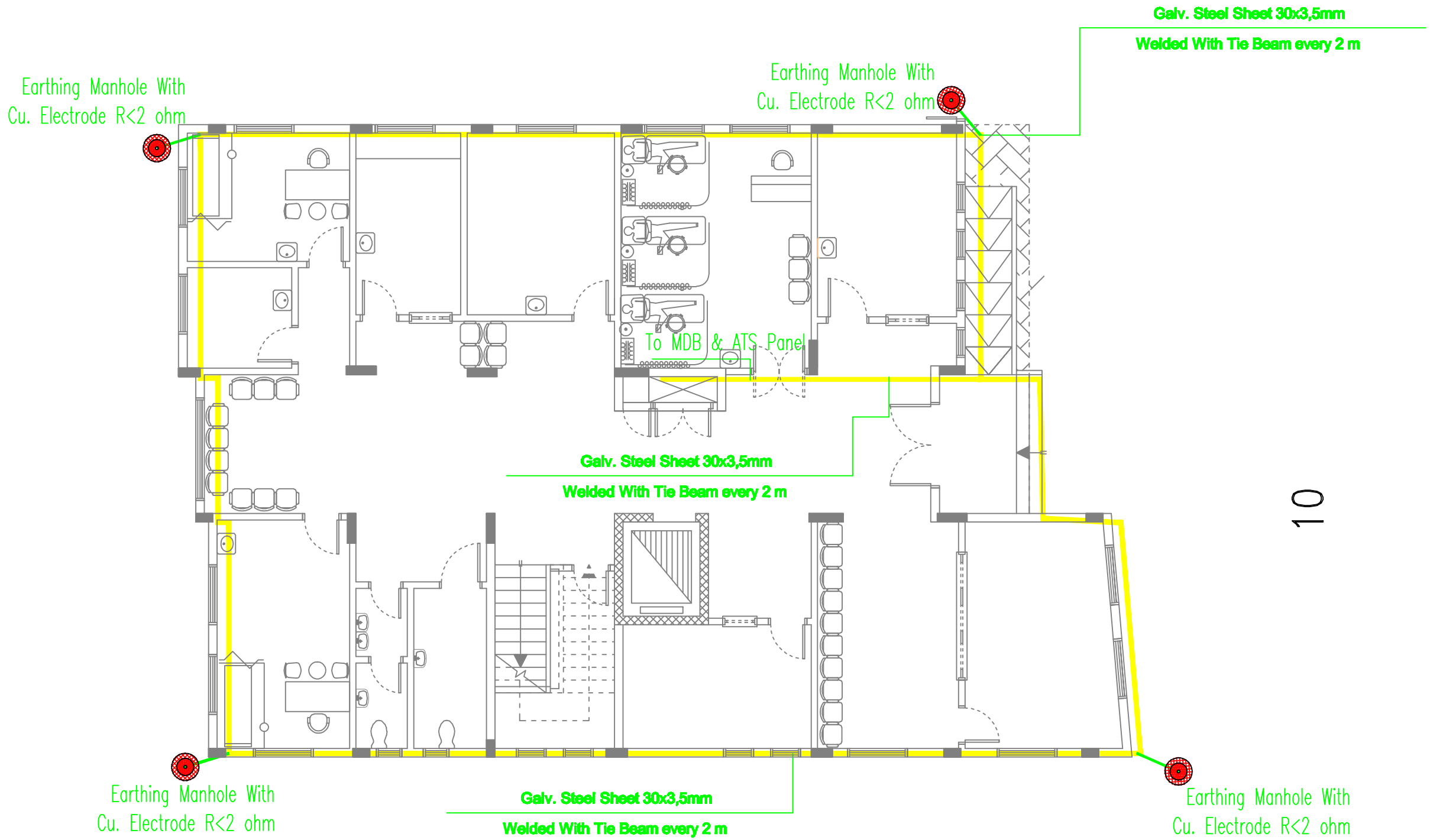
Electrical:
TALAL DEEB, MOHAMED ABU NASR

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
E	2	0	As Shown	AUG. 2014



Note: See Detail 1, 2

10

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
Earthing System

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

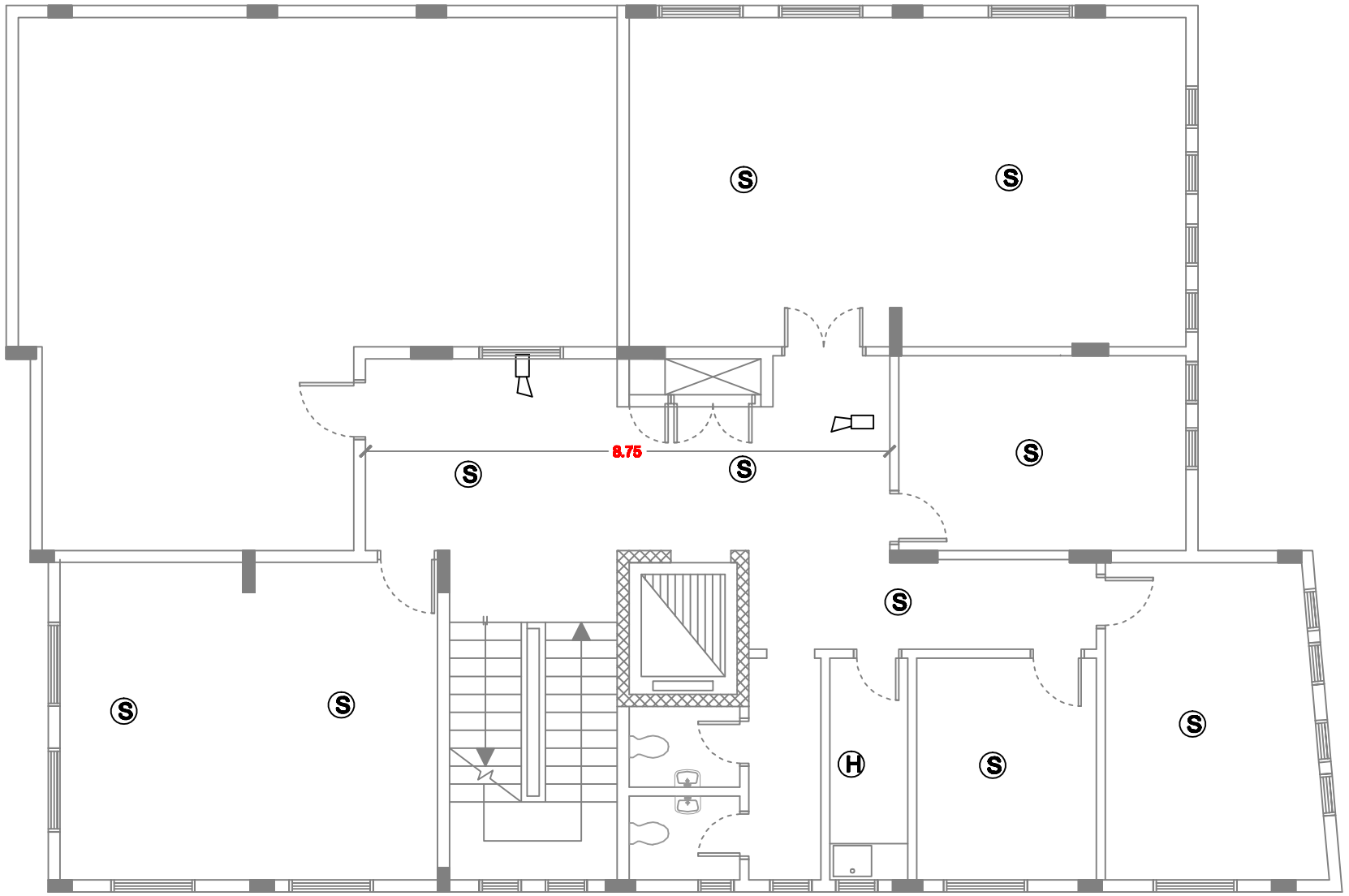
Electrical:
TALAL DEEB, MOHAMED ABU NASR

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
E	1	9	As Shown	AUG. 2014



PALESTINIAN NATIONAL AUTHORITY

MINISTRY OF HEALTH

ENG. & MAINTENANCE ADMINISTRATION

ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:

عيادة عطا حبيب

DRAWING NAME:

Second Floor
Fire Alarm System

Architect:

EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

Electrical:

TALAL DEEB, MOHAMED ABU NASR

Mechanical:

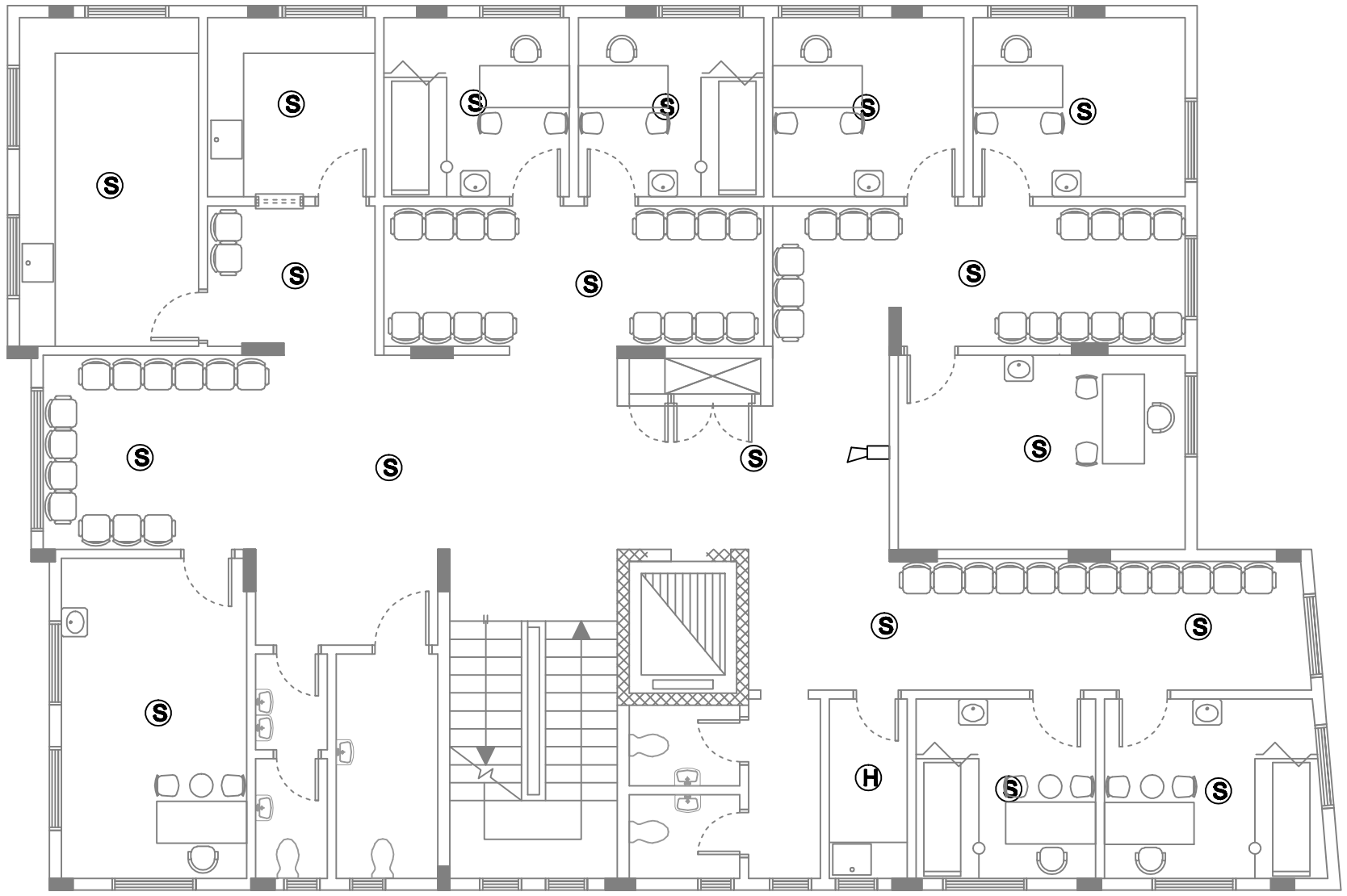
Director of Engineering Office &Development Department:

ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:

ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
E	1	8	As Shown	AUG. 2014



PALESTINIAN NATIONAL AUTHORITY

MINISTRY OF HEALTH

ENG. & MAINTENANCE ADMINISTRATION

ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:

عيادة عطا حبيب

DRAWING NAME:

First Floor
Fire Alarm System

Architect:

EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

Electrical:

TALAL DEEB, MOHAMED ABU NASR

Mechanical:

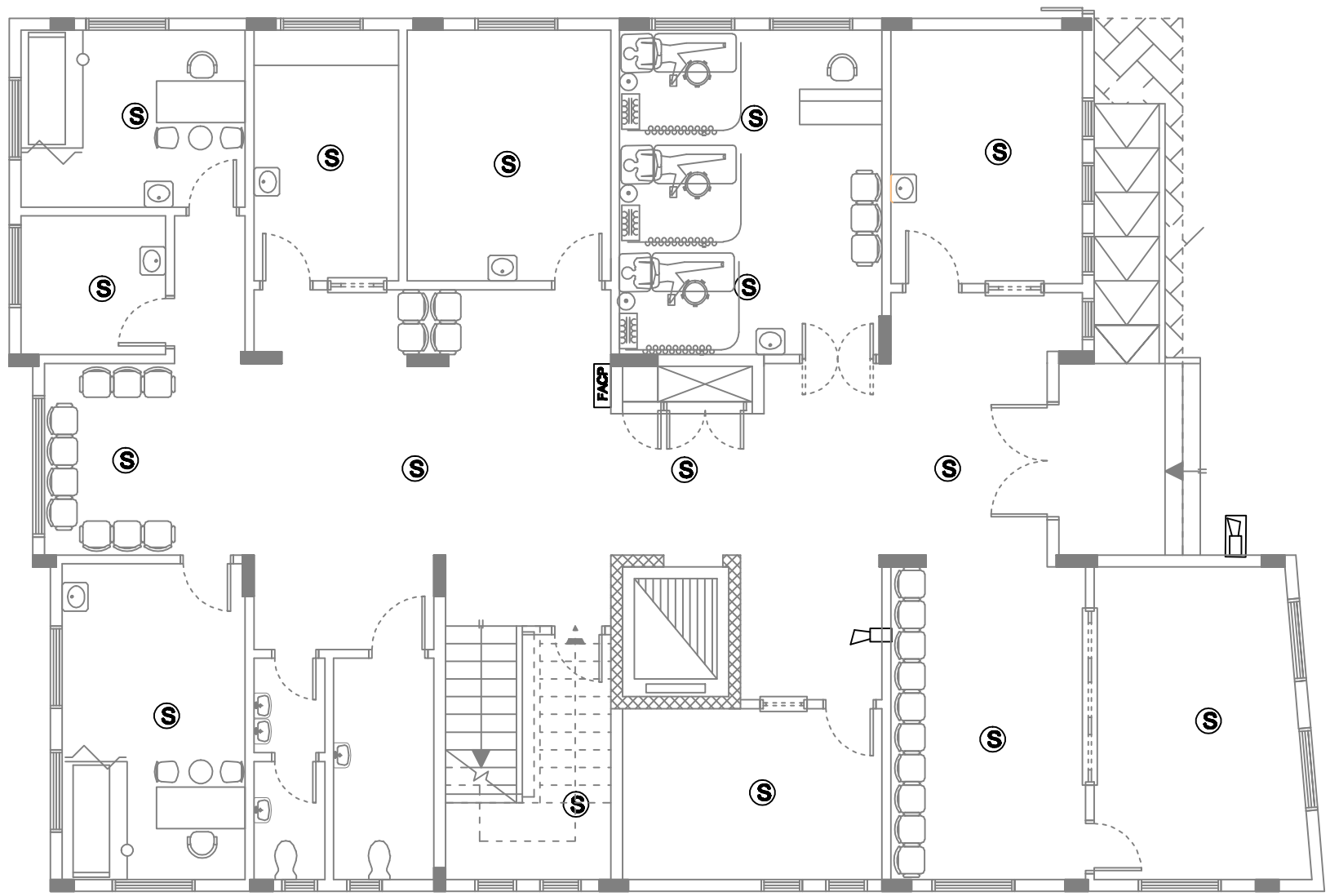
Director of Engineering Office &Development Department:

ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:

ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
E	1	7	As Shown	AUG. 2014



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PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
Ground Floor
Fire Alarm System

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

Electrical:
TALAL DEEB, MOHAMED ABU NASR

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
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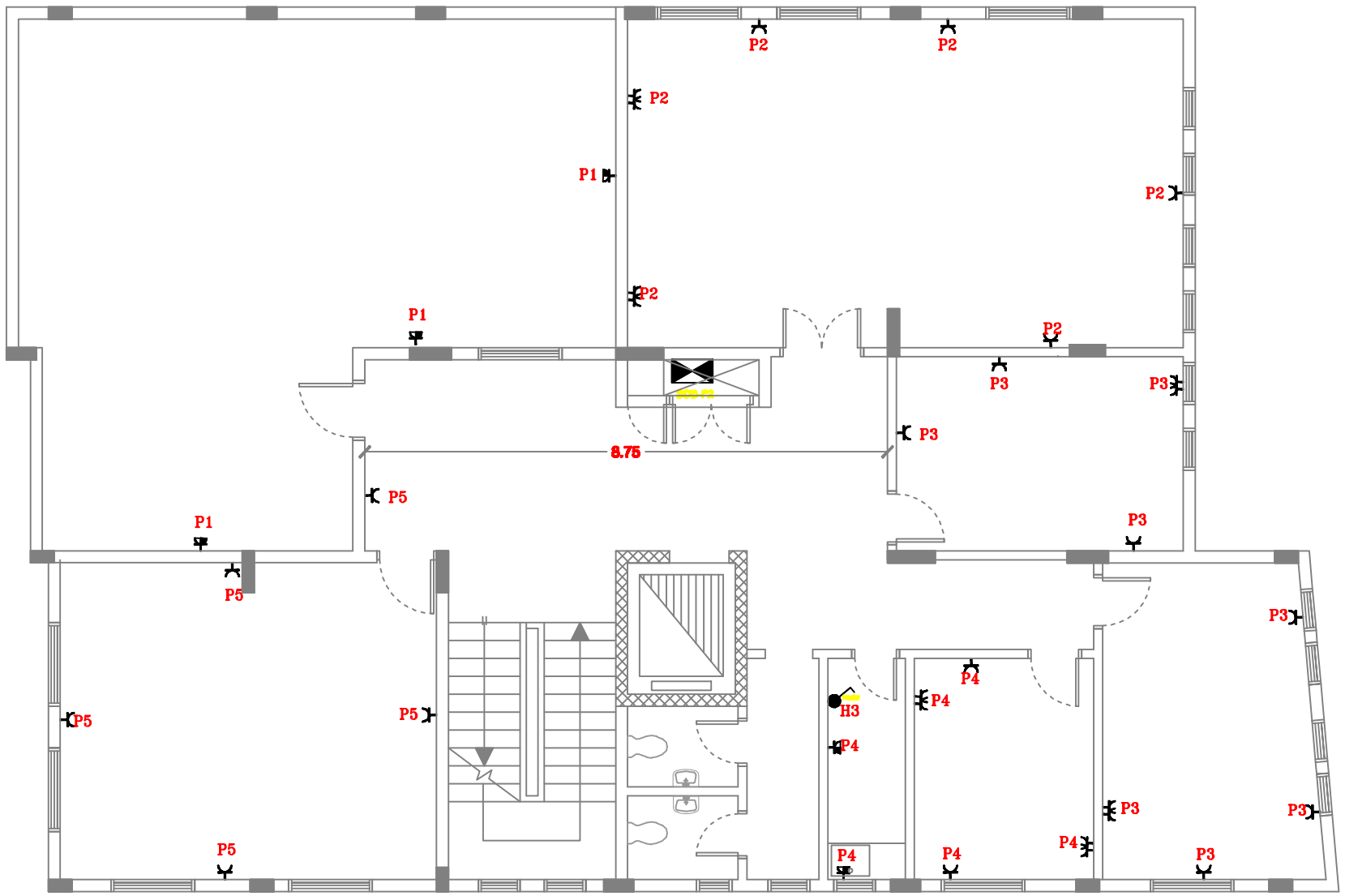

PALESTINIAN NATIONAL AUTHORITY

MINISTRY OF HEALTH

ENG. & MAINTENANCE ADMINISTRATION

ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:

عيادة عطا حبيب

DRAWING NAME:

Second Floor
Power Sockets & A/C

Architect:

EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

Electrical:

TALAL DEEB, MOHAMED ABU NASR

Mechanical:

Director of Engineering Office &Development Department:

ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:

ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
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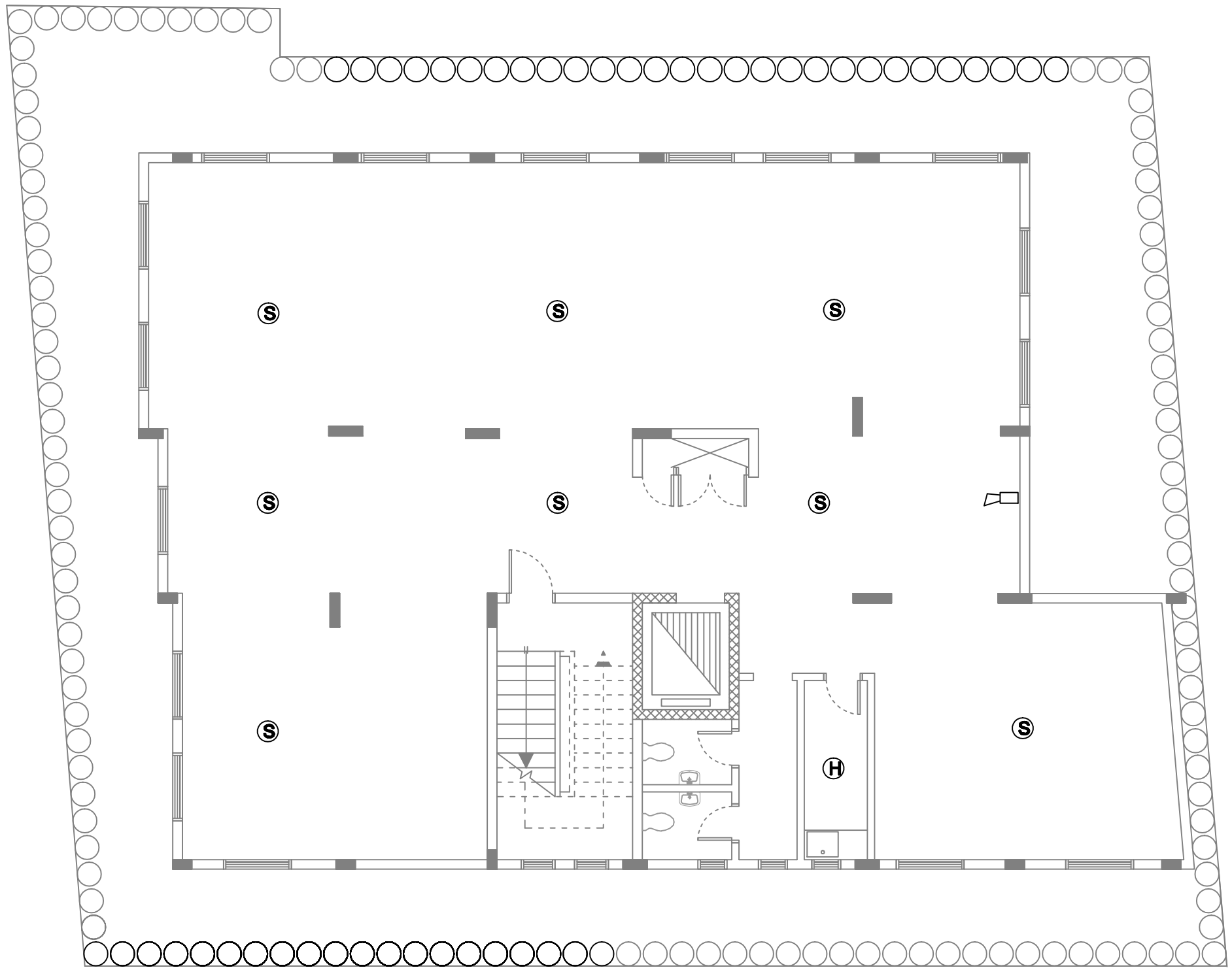

PALESTINIAN NATIONAL AUTHORITY

MINISTRY OF HEALTH

ENG. & MAINTENANCE ADMINISTRATION

ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:

DRAWING NAME:

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

Electrical:
TALAL DEEB, MOHAMED ABU NASR

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
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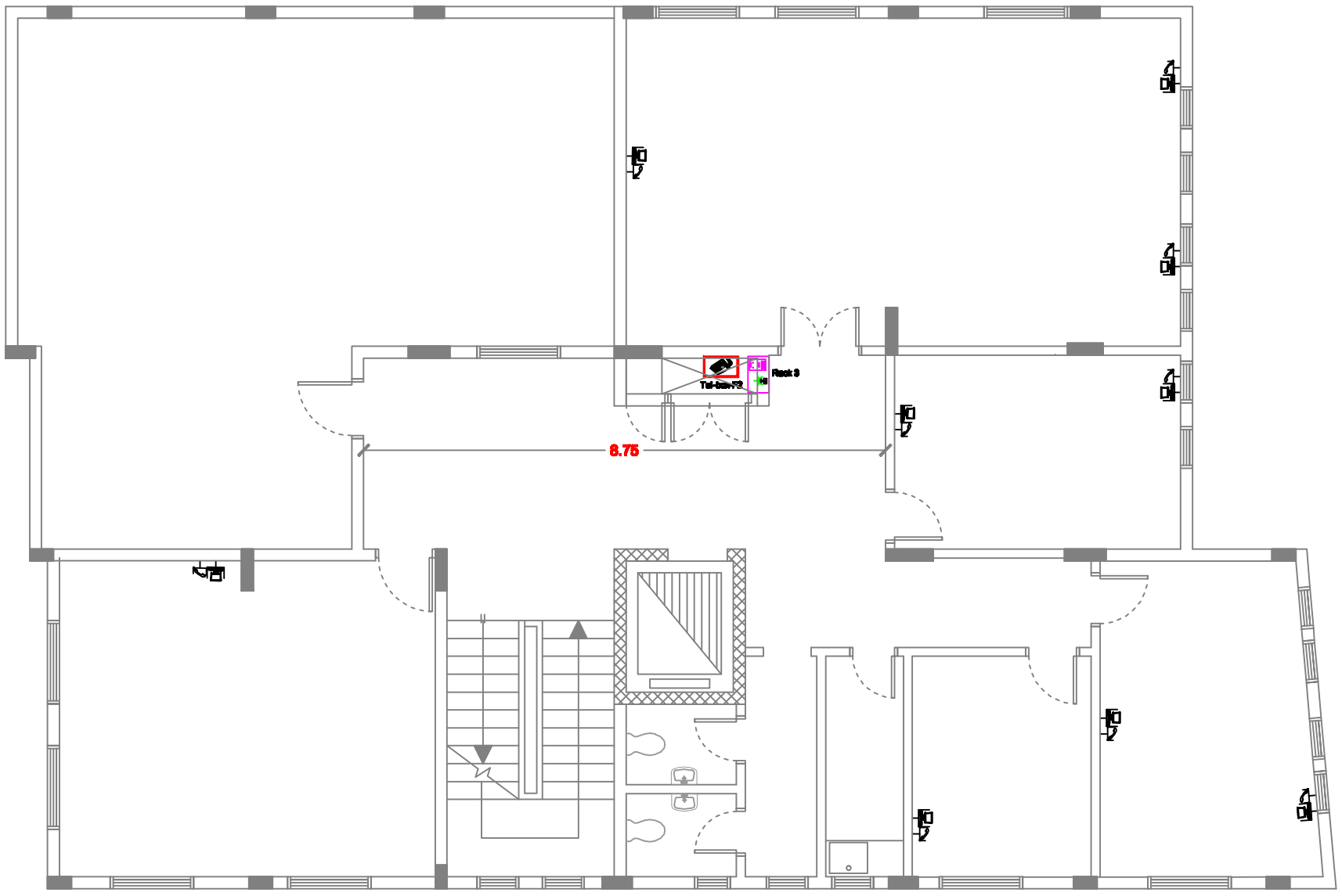

PALESTINIAN NATIONAL AUTHORITY

MINISTRY OF HEALTH

ENG. & MAINTENANCE ADMINISTRATION

ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:

عيادة عطا حبيب

DRAWING NAME:

Second Floor
Com, Tel, SAT

Architect:

EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

Electrical:

TALAL DEEB, MOHAMED ABU NASR

Mechanical:

Director of Engineering Office &Development Department:

ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:

ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
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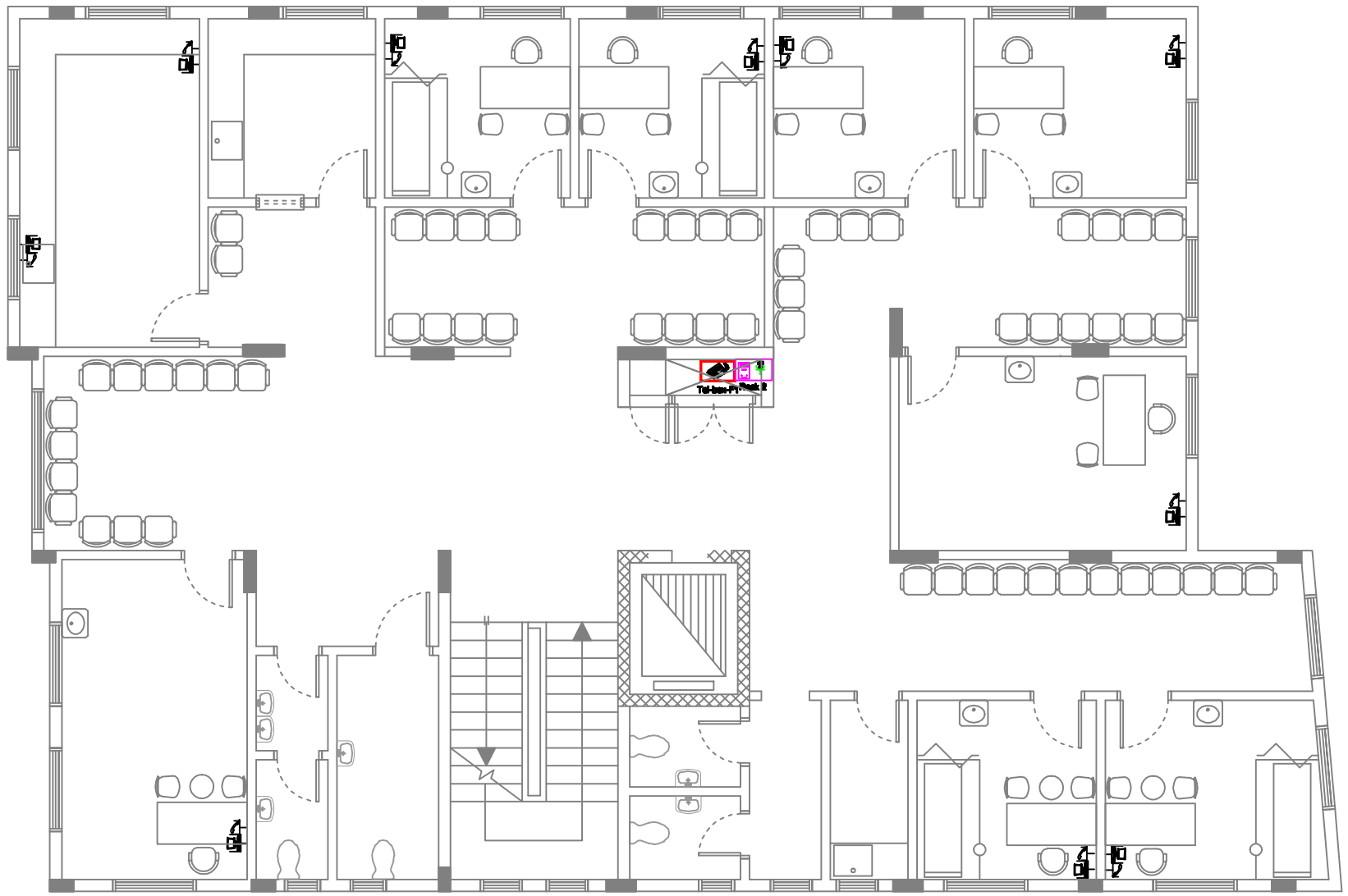

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
First Floor
Com, Tel, SAT

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL

Civil:

Electrical:
TALAL DEEB, MOHAMED ABU NASR

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
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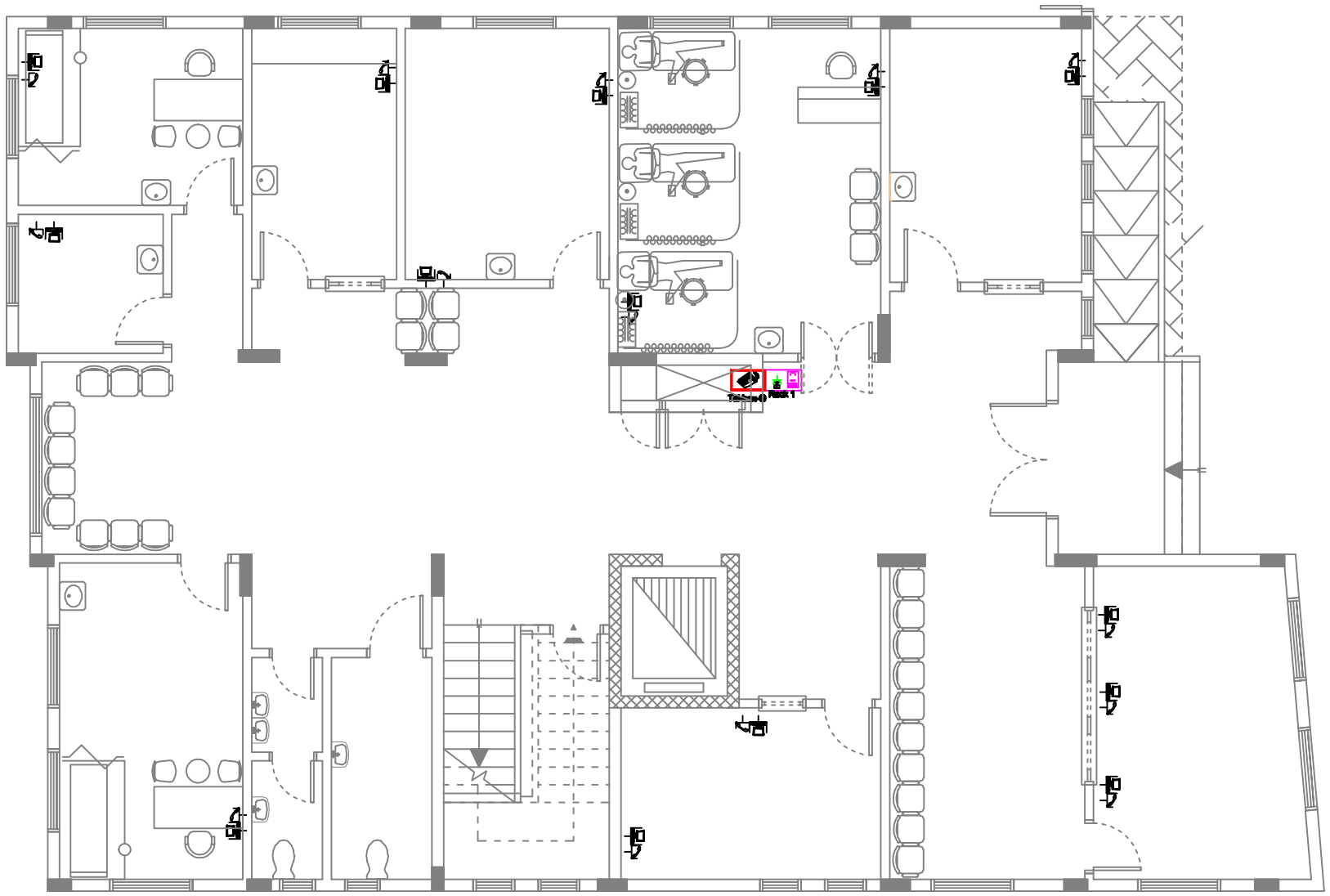

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PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
Ground Floor
Com, Tel, SAT

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

Electrical:
TALAL DEEB, MOHAMED ABU NASR

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
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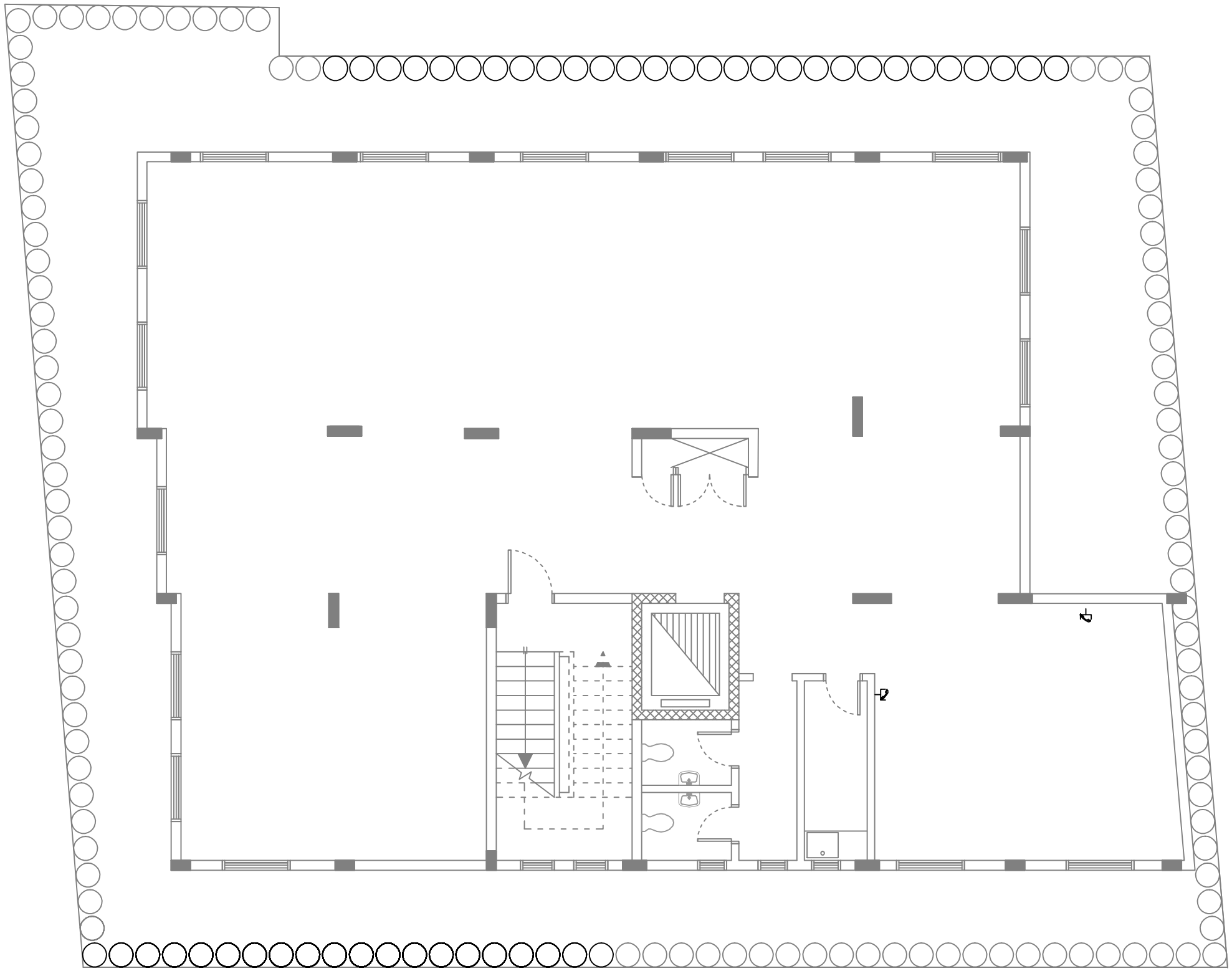

PALESTINIAN NATIONAL AUT

MINISTRY OF HEALTH

ENG. & MAINTENANCE ADMINISTRATION

ENG. OFFICE & DEVELOPMENT DEPARTM

NOTES:

PROJECT NAME:

يادة عطا حبيب

DRAWING NAME:

بق التحت أرضي

Architect:

EMAN ELHALLAQ SALWA ABI

HANAN ABDEL AL

Civil:

Electrical:

TALAL DEEB, MOHAMED ABU

Mechanical:

Director of Engineering &Development Departme

ENG. MOHAMMAD ABU HAMD

General Director of Engineering & Maintena

ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	
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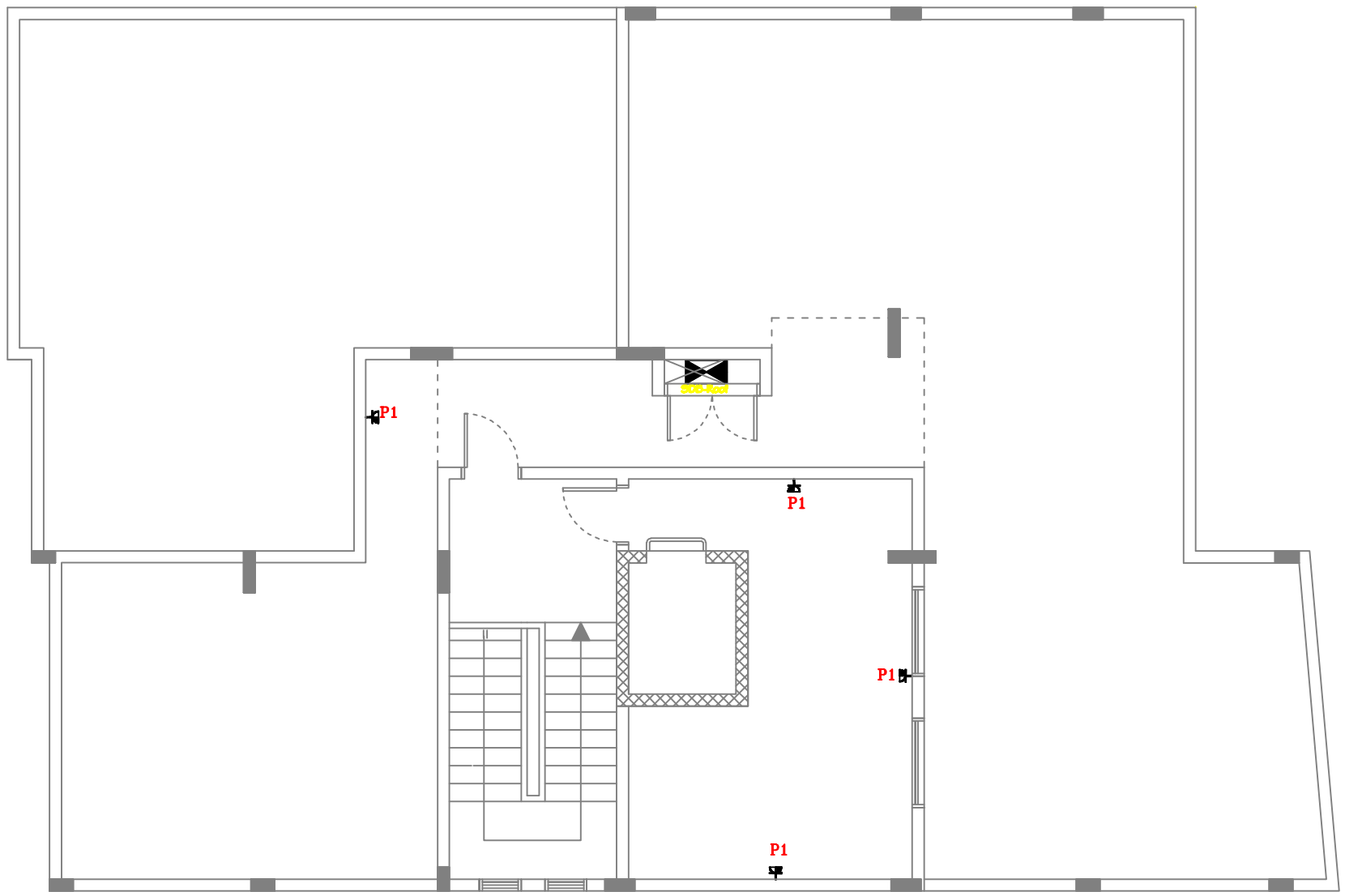

PALESTINIAN NATIONAL AUTHORITY

MINISTRY OF HEALTH

ENG. & MAINTENANCE ADMINISTRATION

ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:

عيادة عطا حبيب

DRAWING NAME:

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL

Civil:

Electrical:
TALAL DEEB, MOHAMED ABU NASR

Mechanical:

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
E	1	0	As Shown	AUG. 2014

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المخططات الميكانيكية

MECHANICAL DRAWINGS

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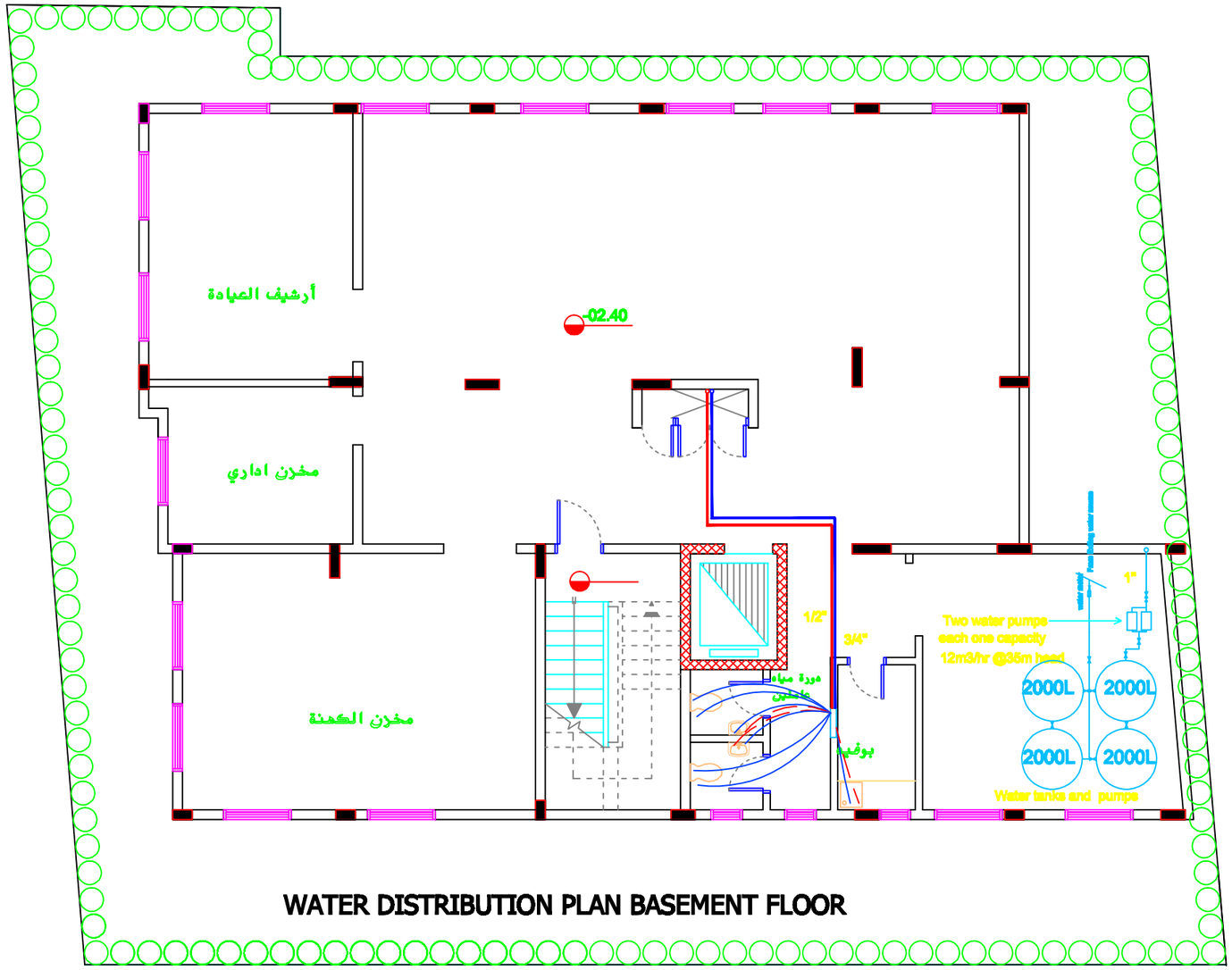
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



WATER DISTRIBUTION PLAN BASEMENT FLOOR

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
طابق التحت أرضي

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:
EZZAT A. JALHOOM
JABER ABU-HAMAM

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
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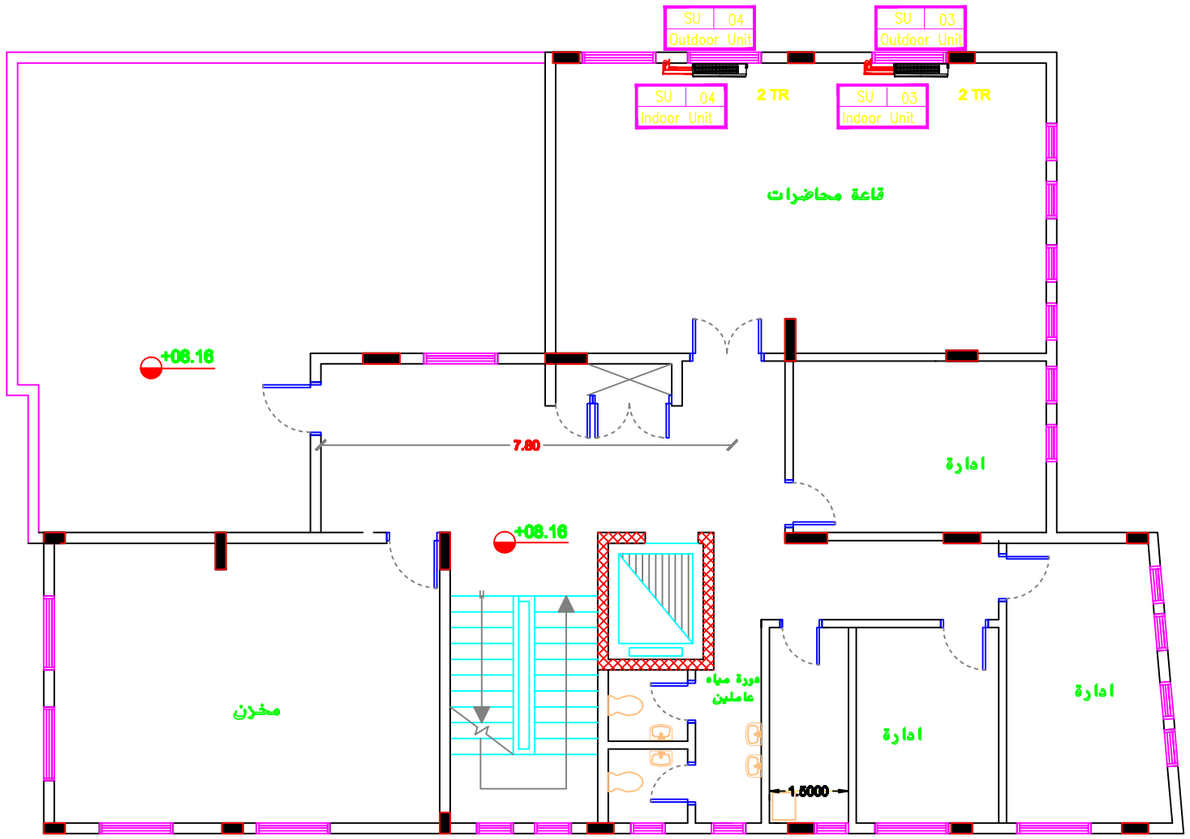

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
SECAND FLOOLR
AIR CONDITIONING PLAN

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:
EZZAT A. JALHOOM
JABER ABU-HAMAM

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
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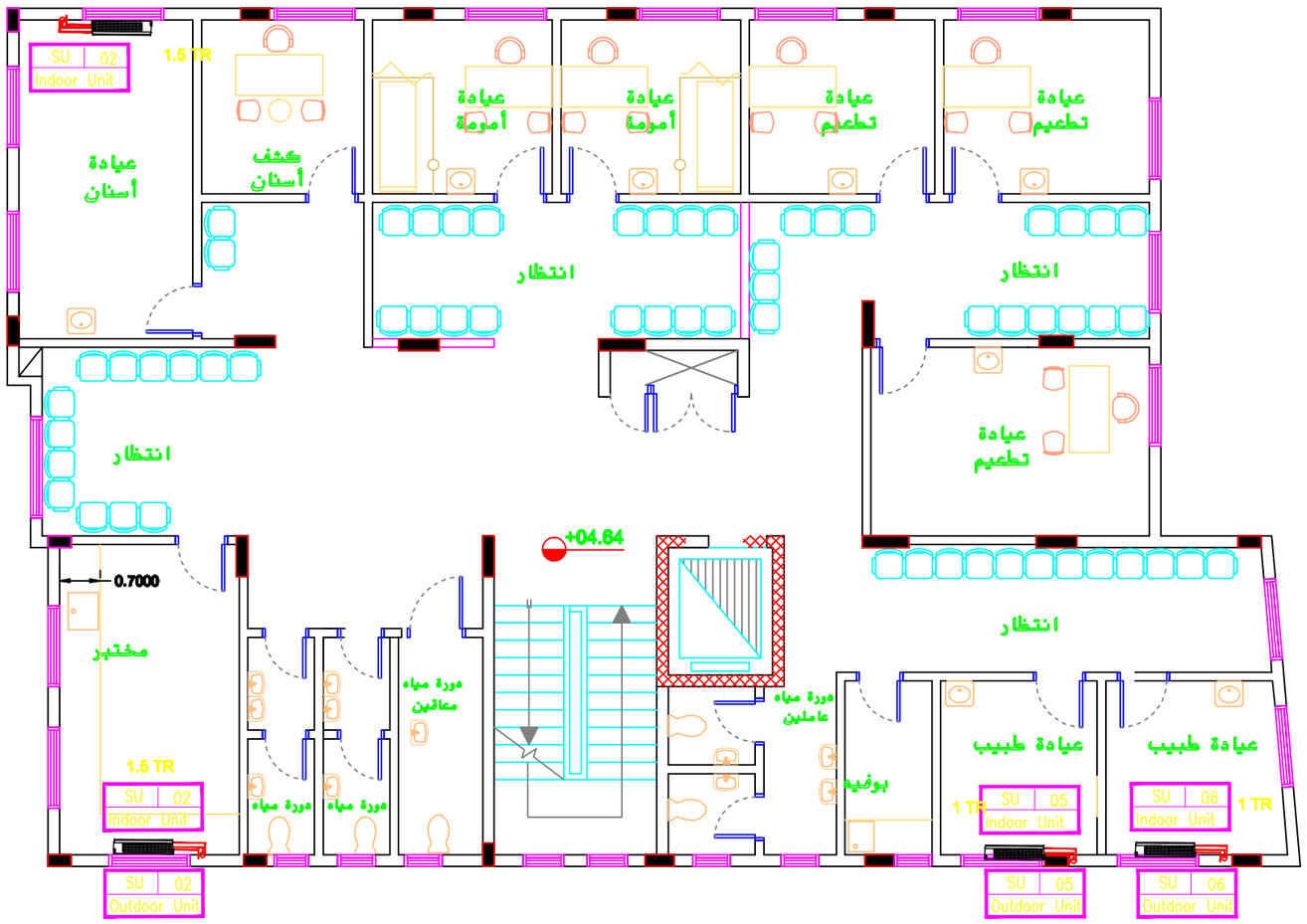

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
FIRST FLOOLR
AIR CONDITIONING PLAN

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:
EZZAT A. JALHOOM
JABER ABU-HAMAM

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
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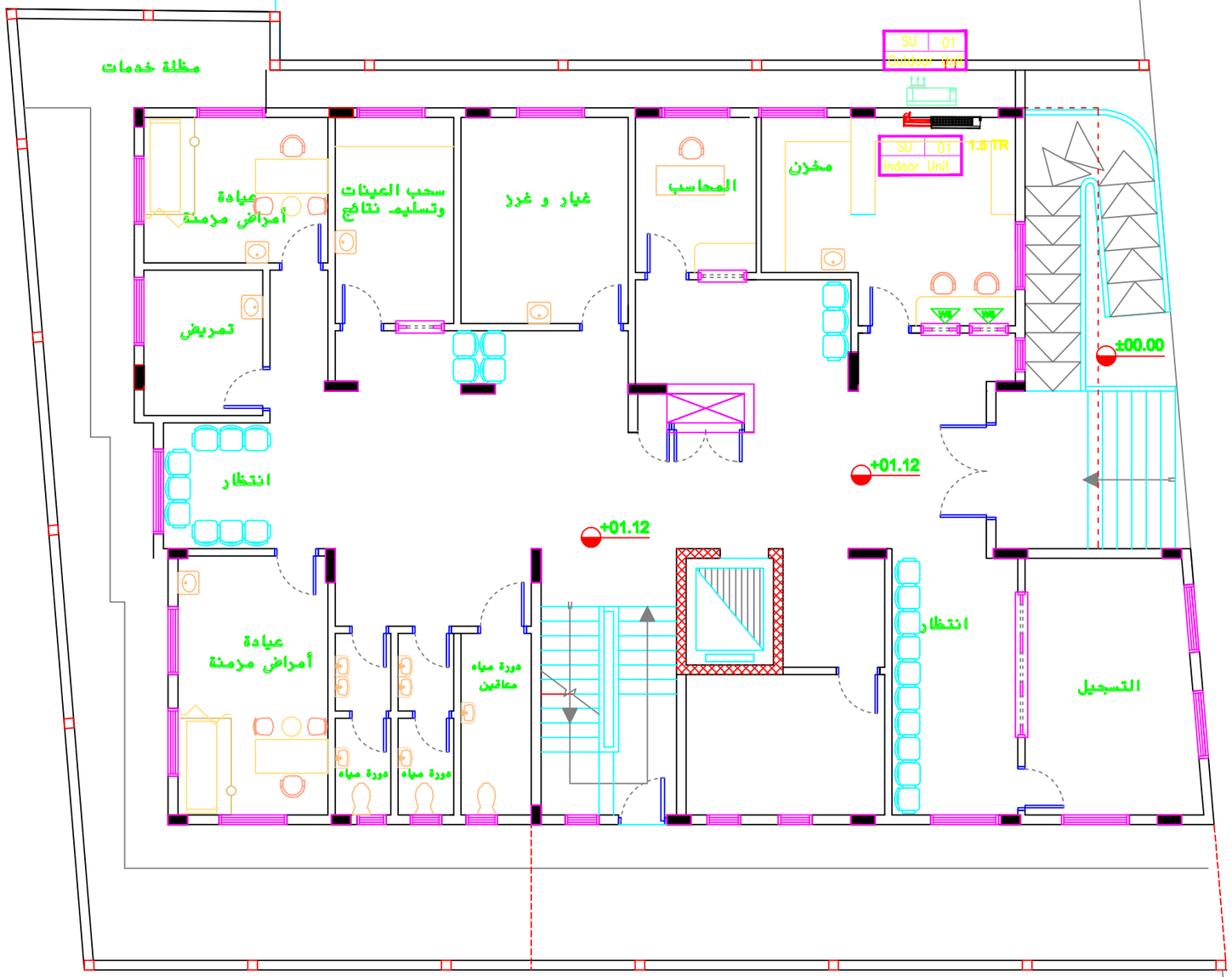

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PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
GROUND FLOOLR
AIR CONDITIONING PLAN

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:
EZZAT A. JALHOOM
JABER ABU-HAMAM

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
A 1 8	As Shown	Nov. 2014

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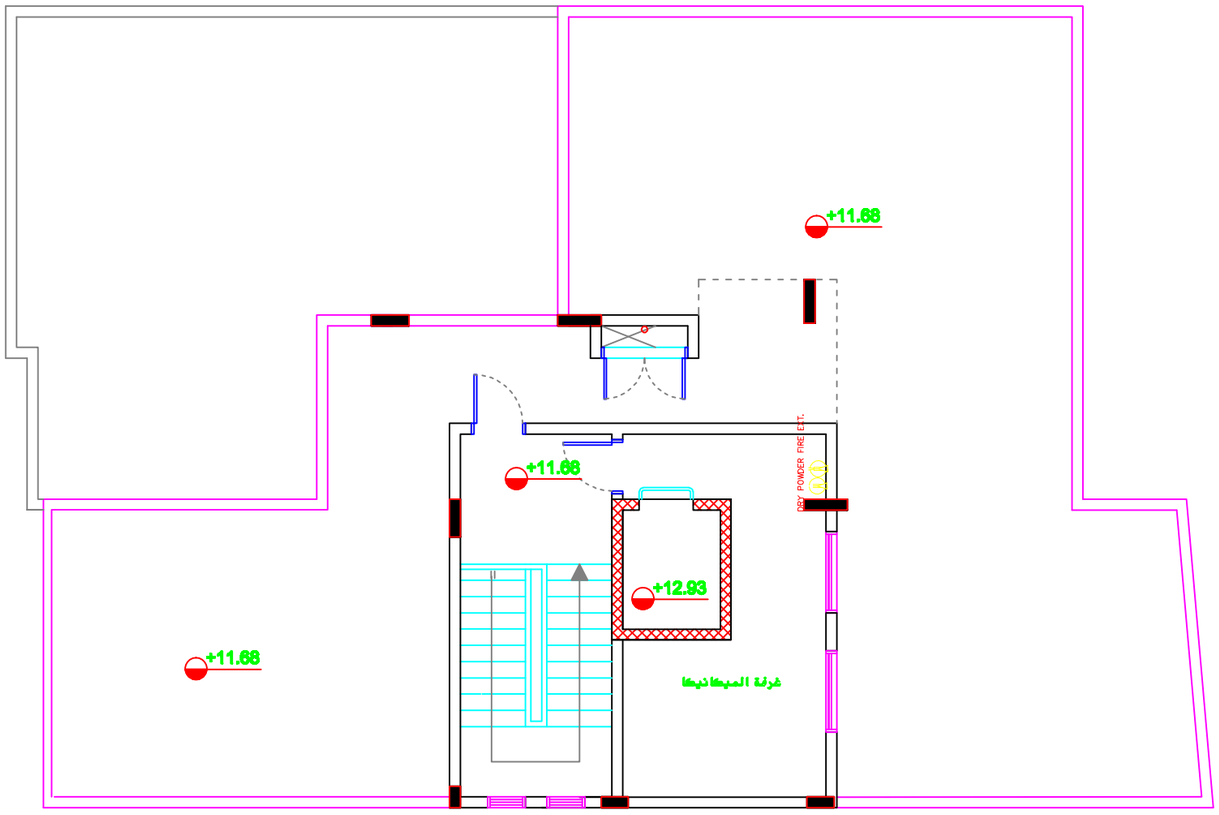
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



FIRE FIGTING PLAN ROOF FLOOR

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
FIRE FIGTING PLAN
طابق السطح

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:
EZZAT A. JALHOOM
JABER ABU-HAMAM

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
A 1 7	As Shown	Nov. 2014

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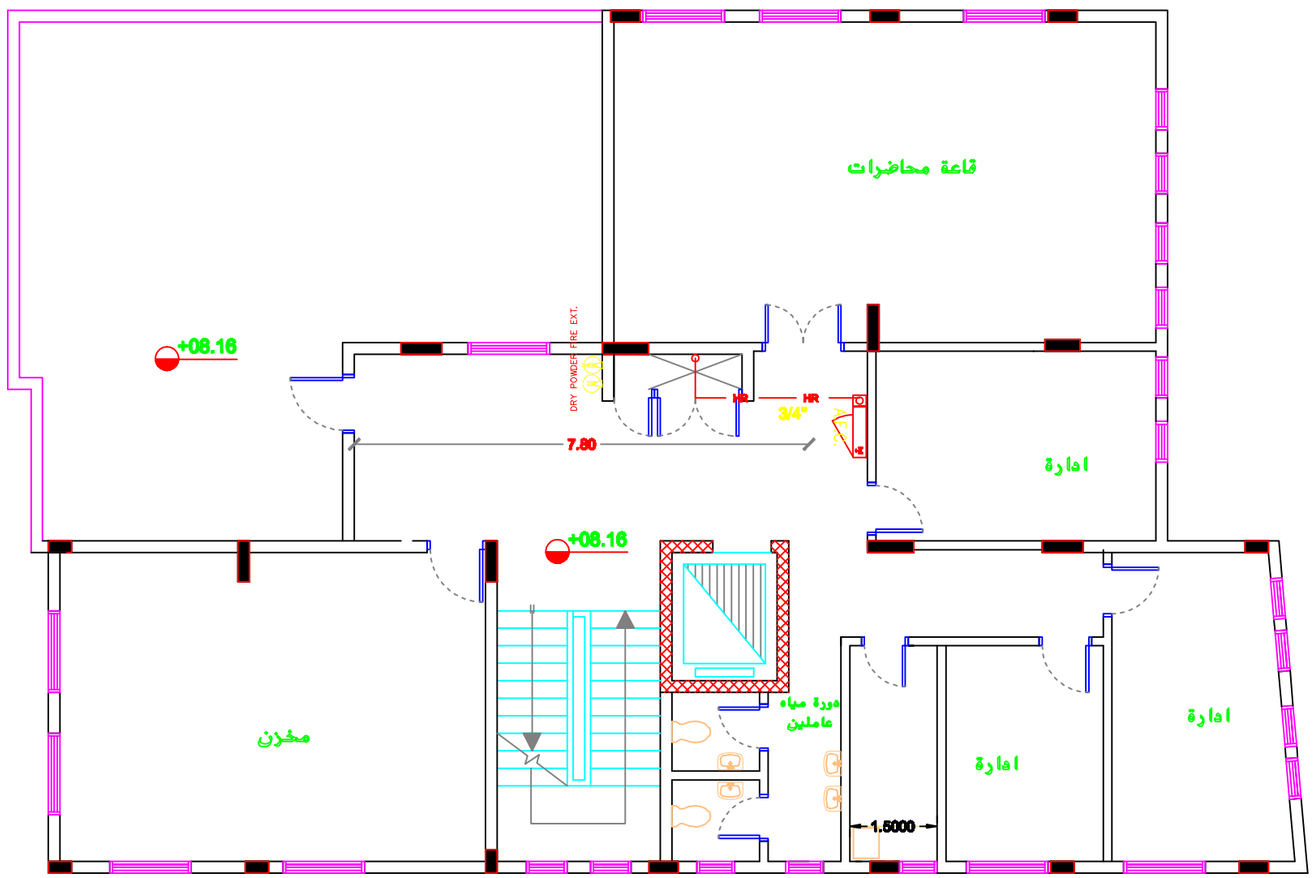
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



FIRE FIGTING PLAN SECAND FLOOR

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
FIRE FIGTING PLAN

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:
EZZAT A. JAUHOOM
JABER ABU-HAMAM

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
A 1 6	As Shown	Nov. 2014

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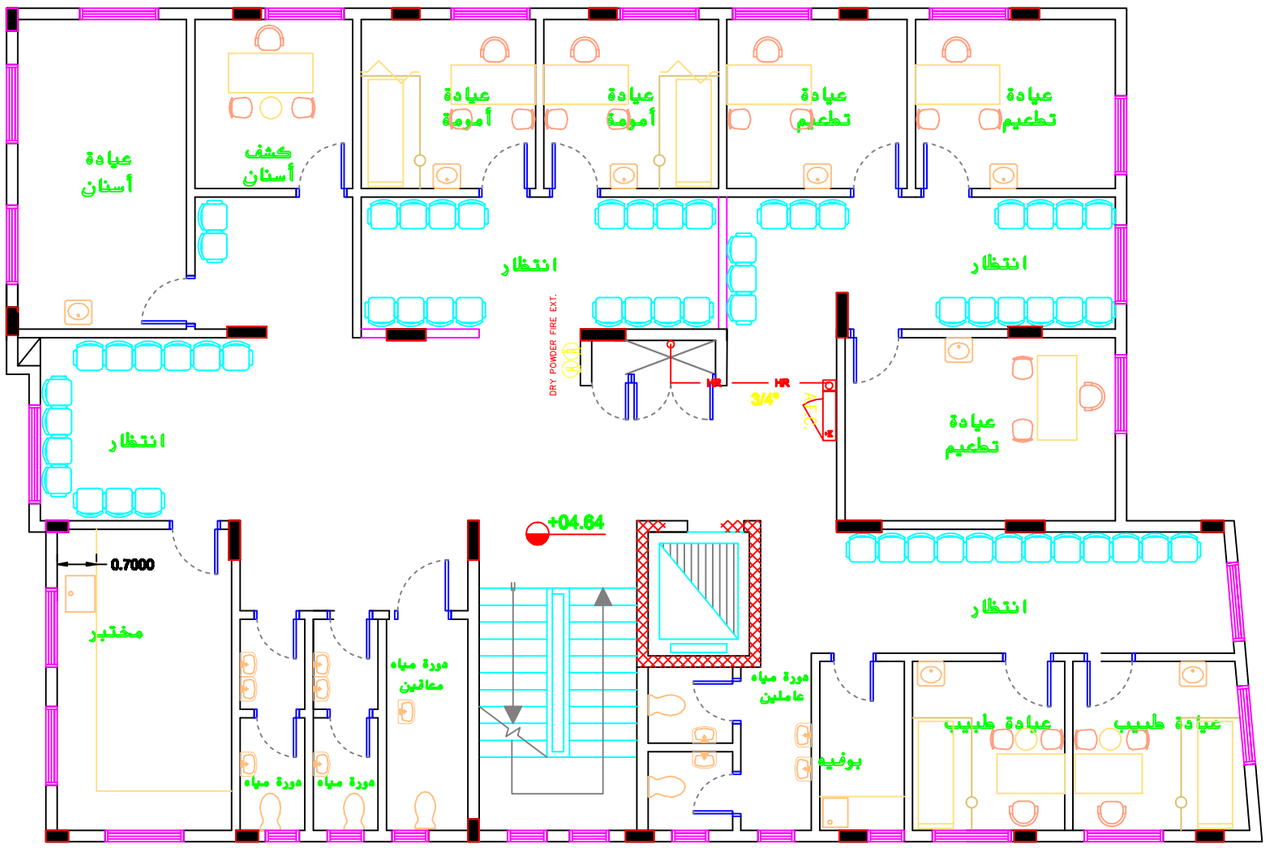

FIRE FIGTING PLAN FIRST FLOOR

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
FIRE FIGTING PLAN

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:
EZZAT A. JALHOOM
JABER ABU-HAMAM

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
A 1 5	As Shown	Nov. 2014

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FIRE FIGTING PLAN GROUND FLOOR

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
FIRE FIGTING PLAN

DRAWING NAME:
الطابق الأرضي

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:
EZZAT A. JALHOOM
JABER ABU-HAMAM

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
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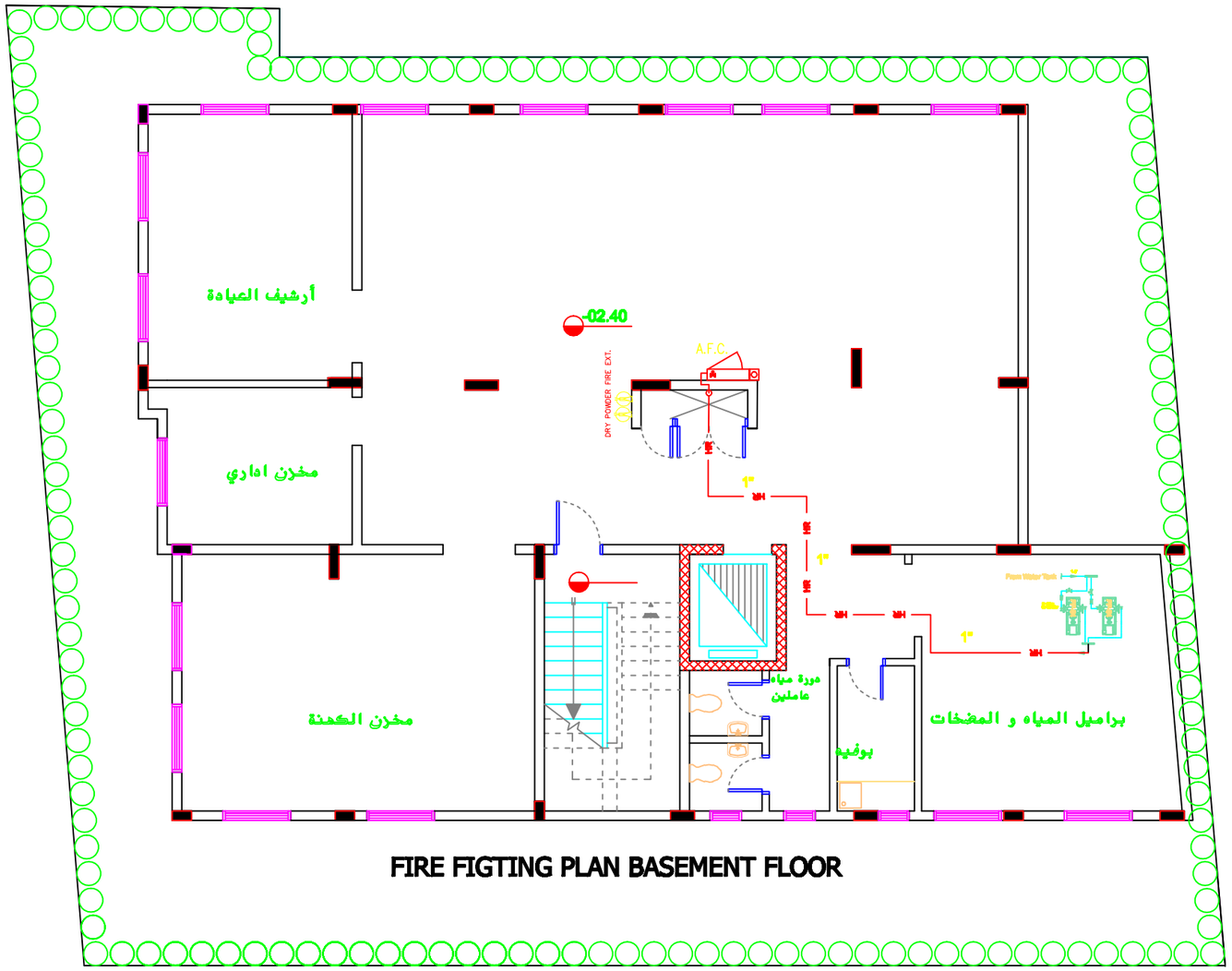

FIRE FIGTING PLAN BASEMENT FLOOR

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
FIRE FIGTING PLAN

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:
EZZAT A. JALHOOM
JABER ABU-HAMAM

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
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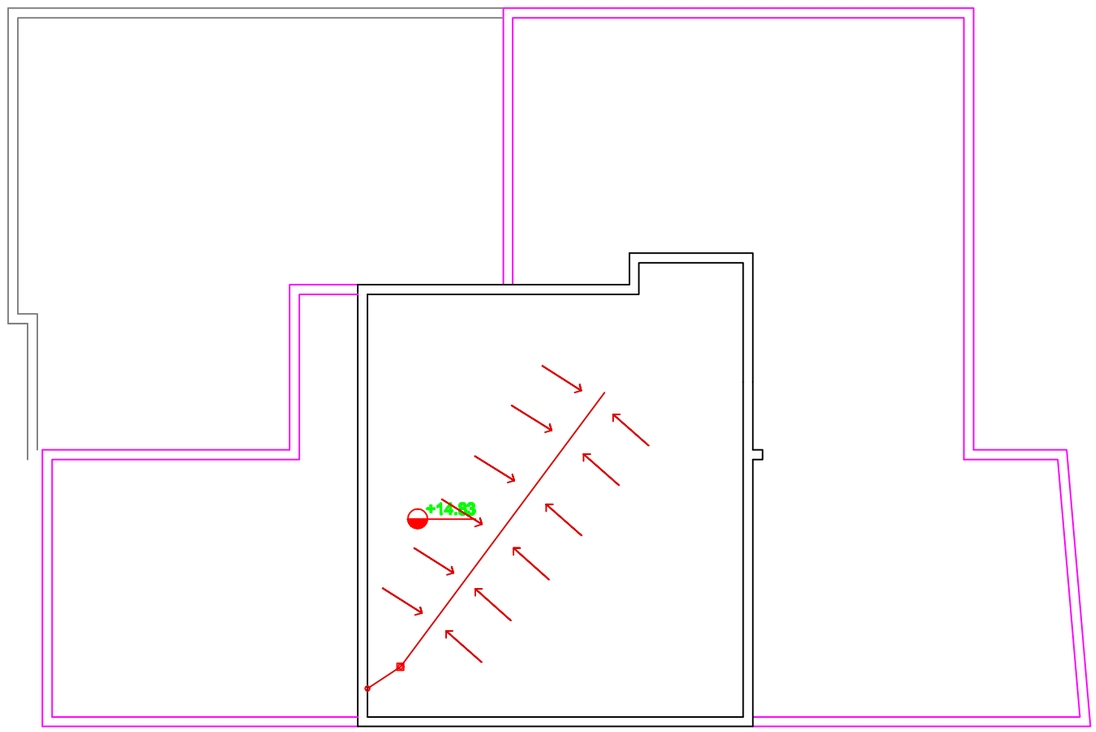

SEWAGE PLAN UPPER ROOF FLOOR

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
السطح الأخير

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:
EZZAT A. JALHOOM
JABER ABU-HAMAM

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
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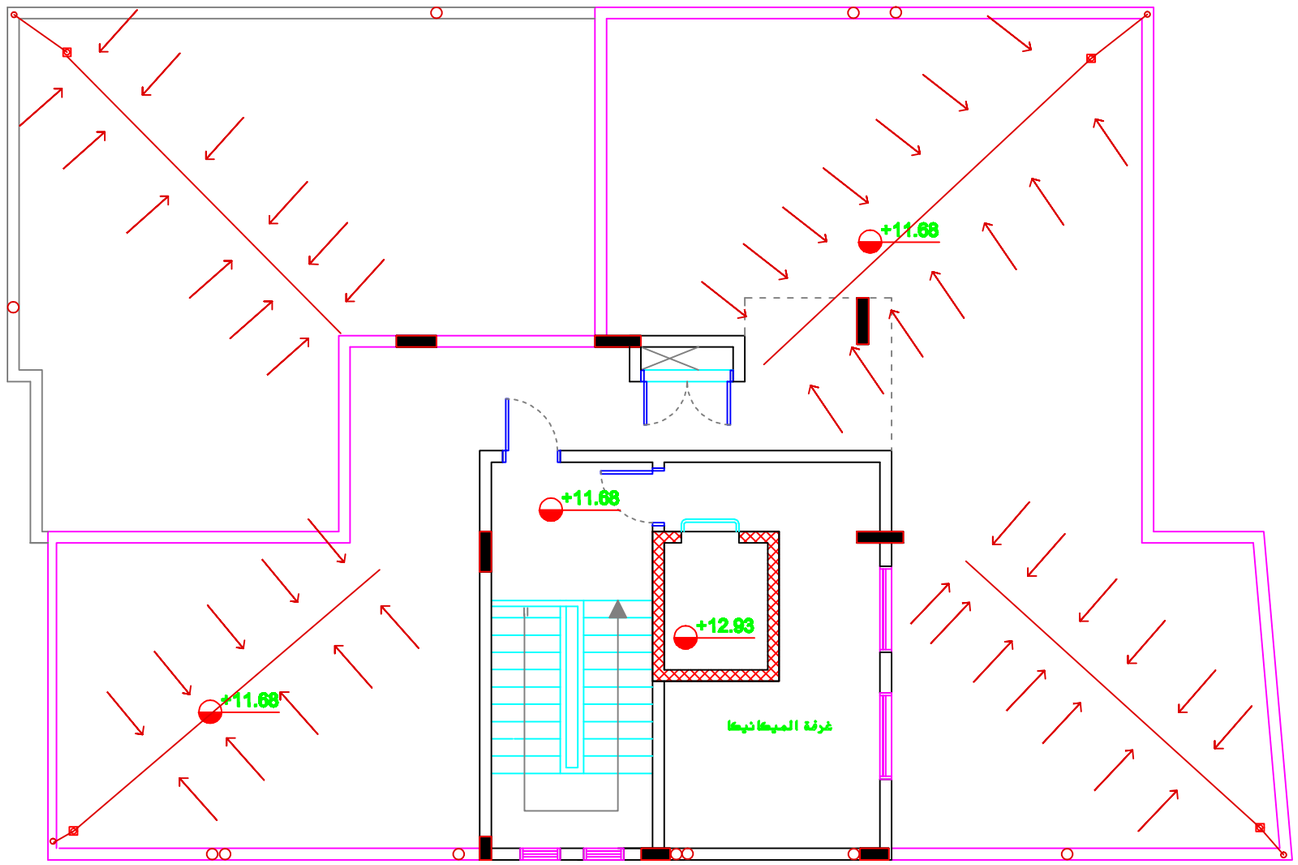

SEWAGE PLAN ROOF FLOOR

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
طابق السطح

Architect:
EMAN ELHALLAQ SALWA ABDEL AL HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:
EZZAT A. JALHOOM
JABER ABU-HAMAM

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
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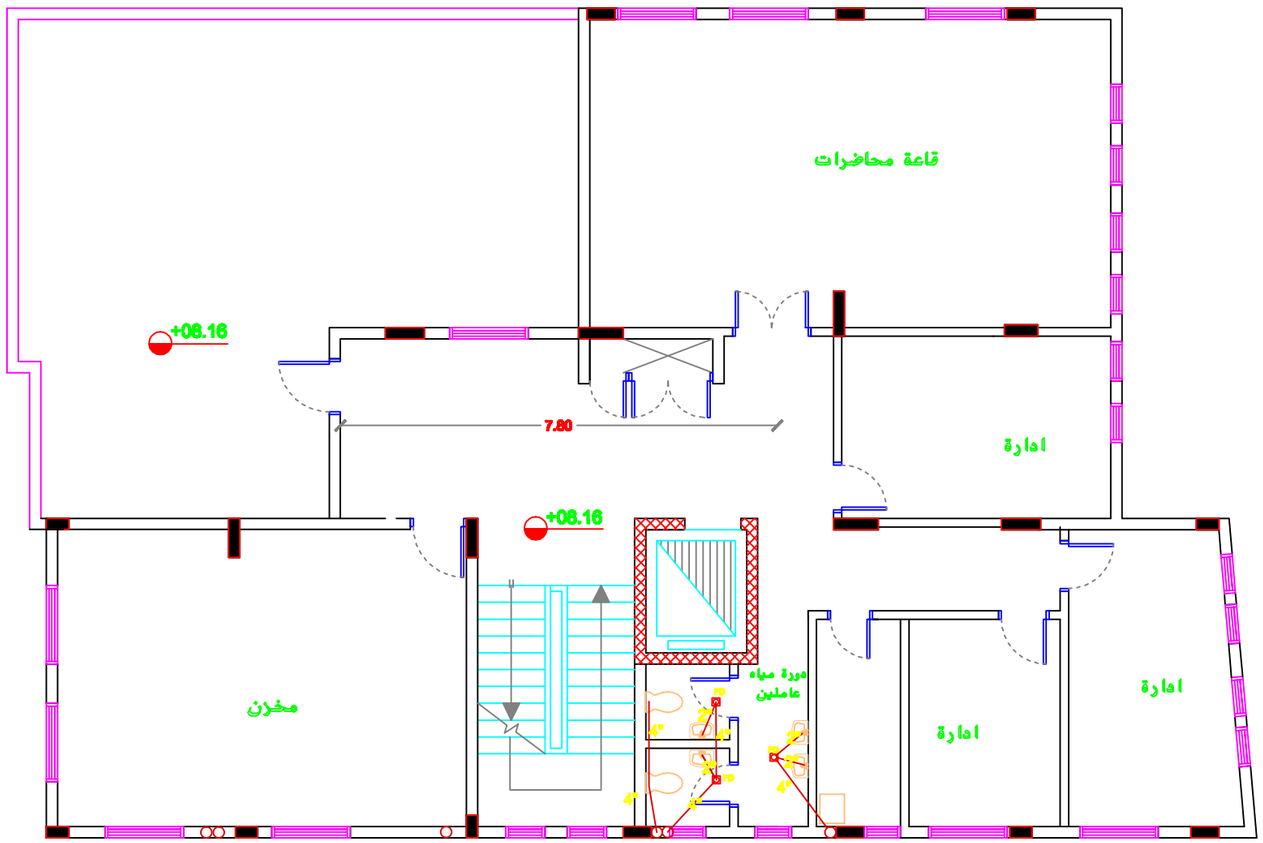

SEWAGE PLAN SECAND FLOOR

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
الطابق الثاني

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:
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JABER ABU-HAMAM

Director of Engineering Office &Development Department:
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General Director of Engineering & Maintenance:
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DRAWING NO.	SCALE	DATE
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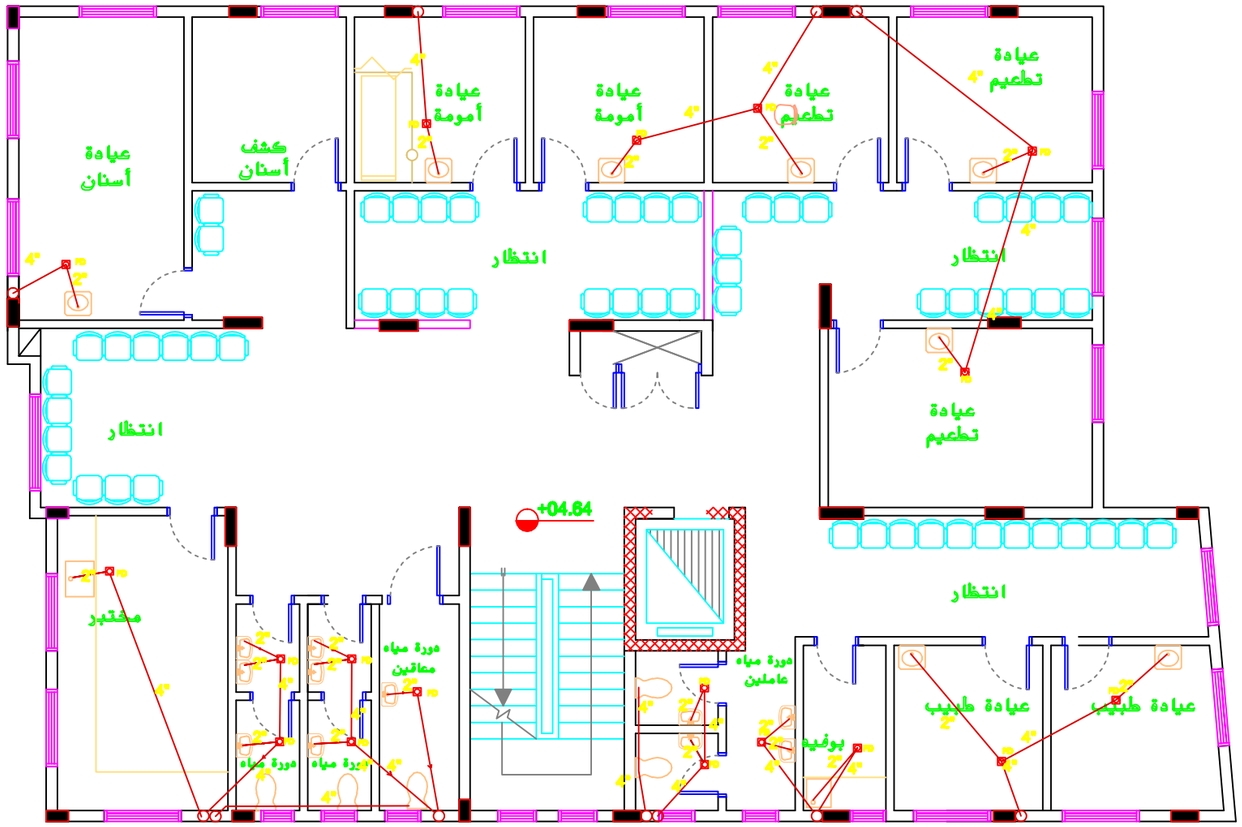

SEWAGE PLAN FIRST FLOOR

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
الطابق الأول

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:
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JABER ABU-HAMAM

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
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DRAWING NO.	SCALE	DATE
A 0 9	As Shown	Nov. 2014

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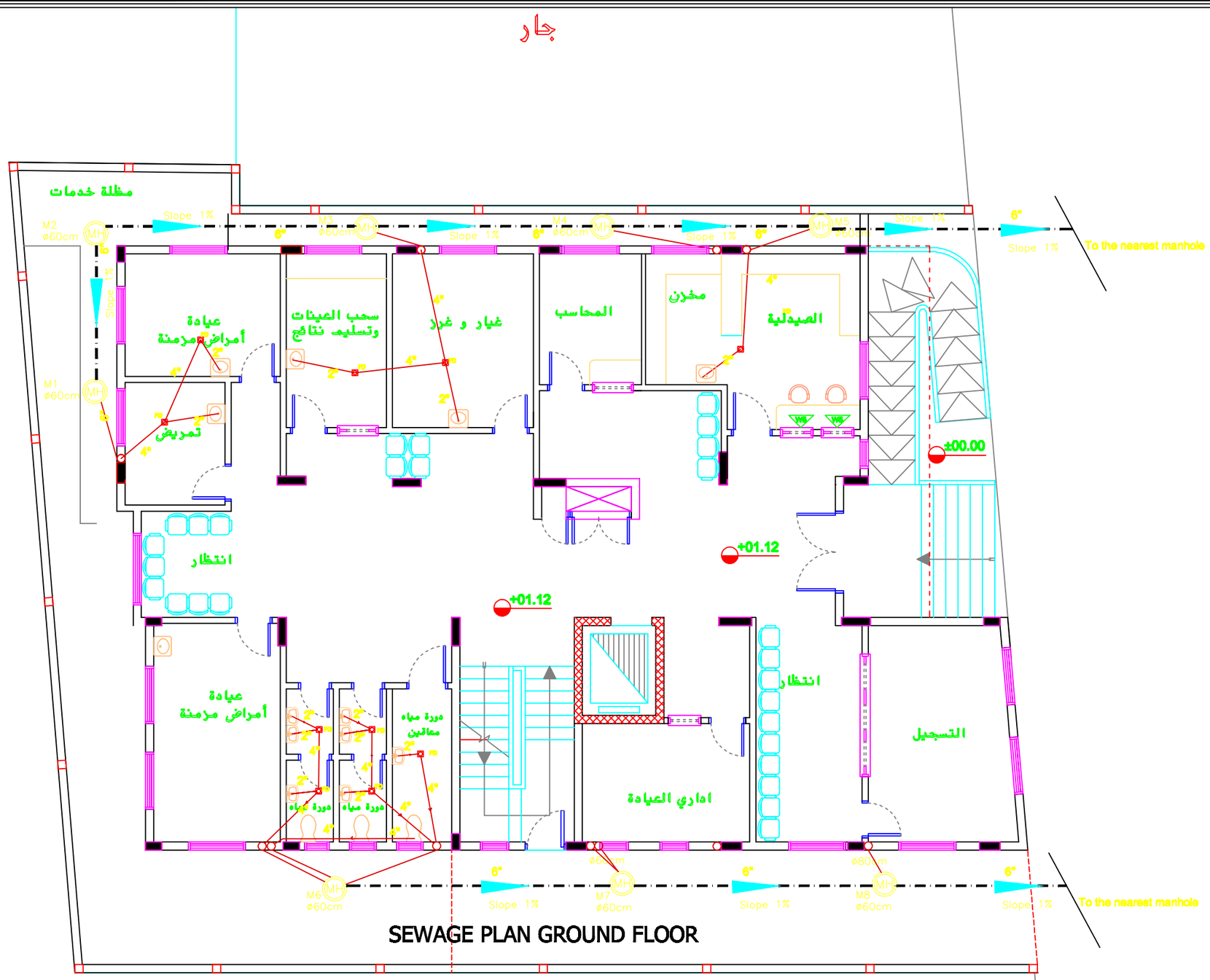

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
الطابق الأرضي

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:
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JABER ABU-HAMAM

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
A 0 8	As Shown	Nov. 2014

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT
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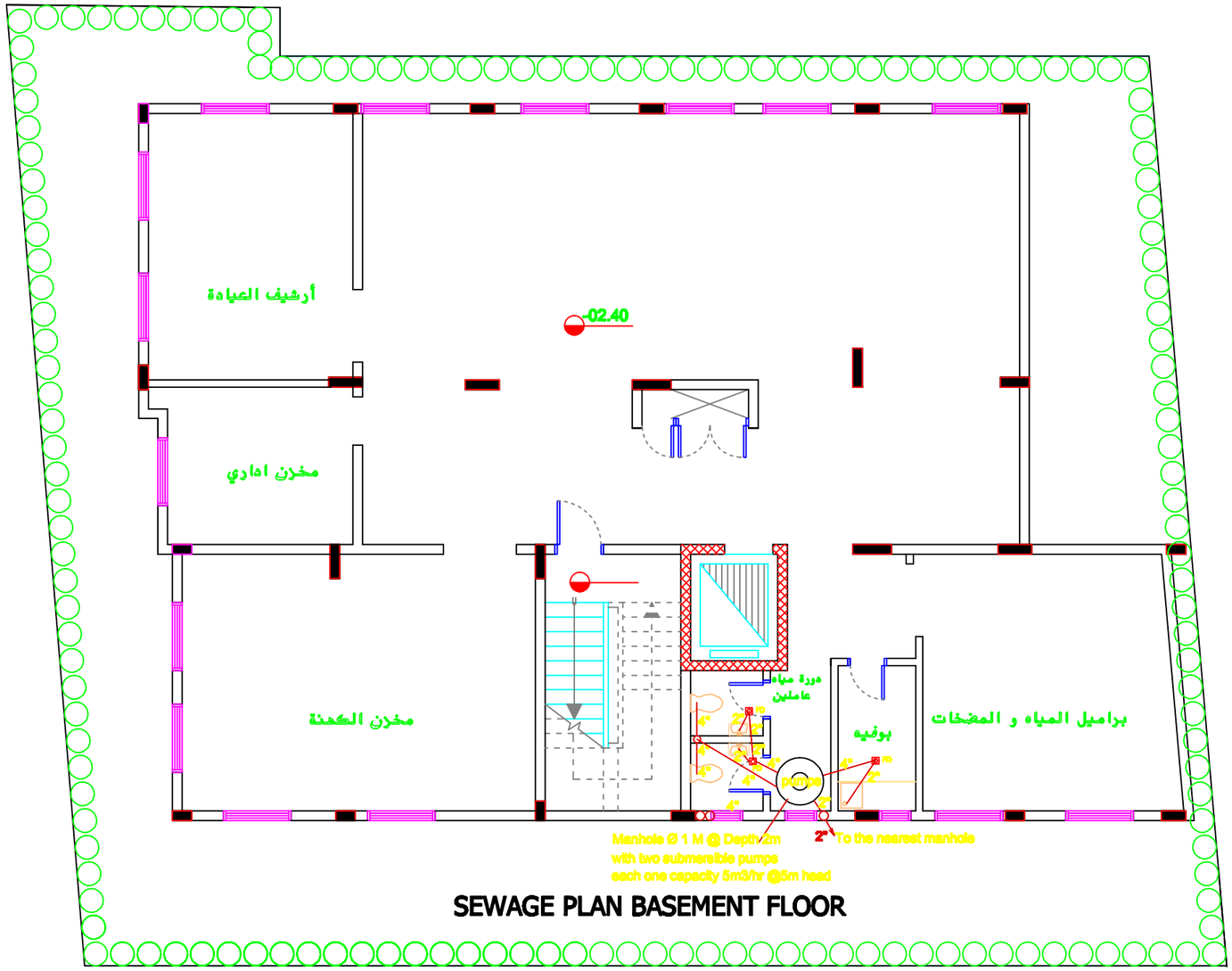
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



SEWAGE PLAN BASEMENT FLOOR

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
طابق التحت أرضي

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:
EZZAT A. JALHOOM
JABER ABU-HAMAM

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
A 0 7	As Shown	Nov. 2014

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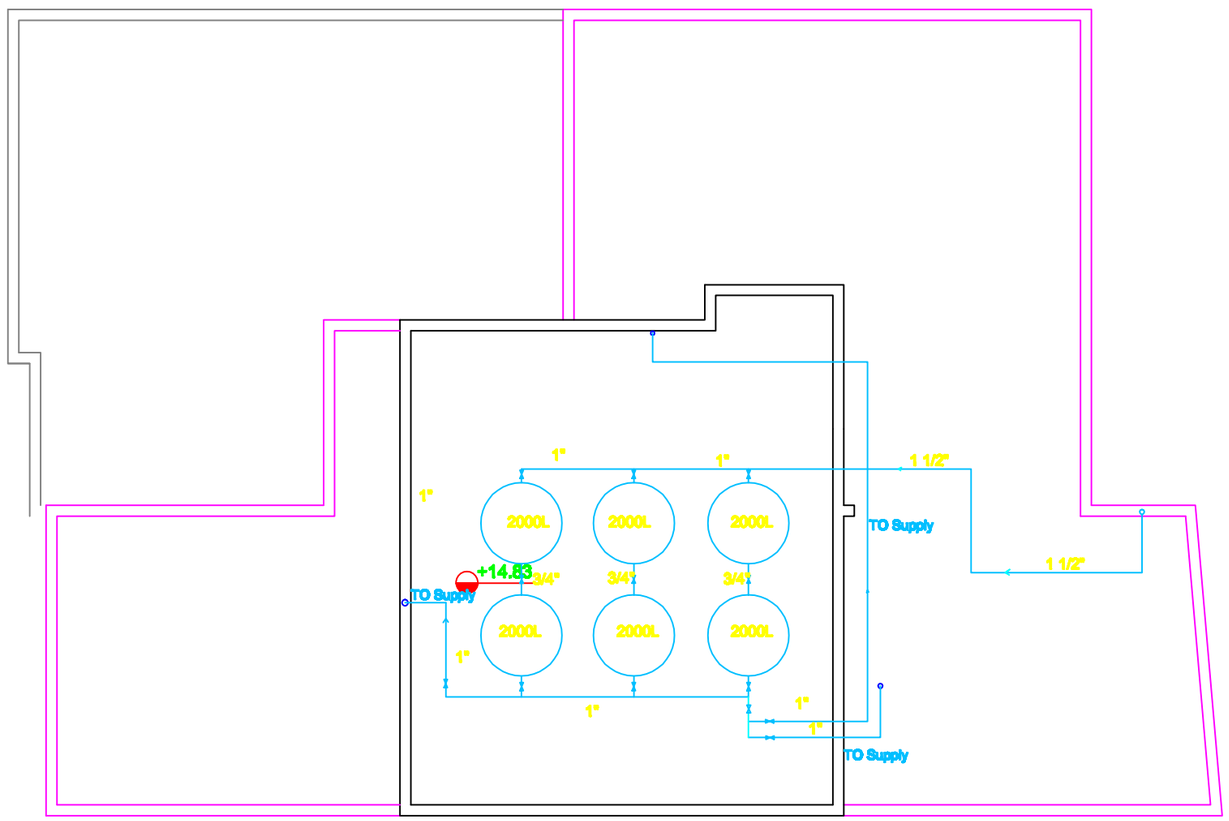

WATER DISTRIBUTION PLAN UPPER ROOF FLOOR

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
السطح الأخير

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:
EZZAT A. JALHOOM
JABER ABU-HAMAM

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
A 0 6	As Shown	Nov. 2014

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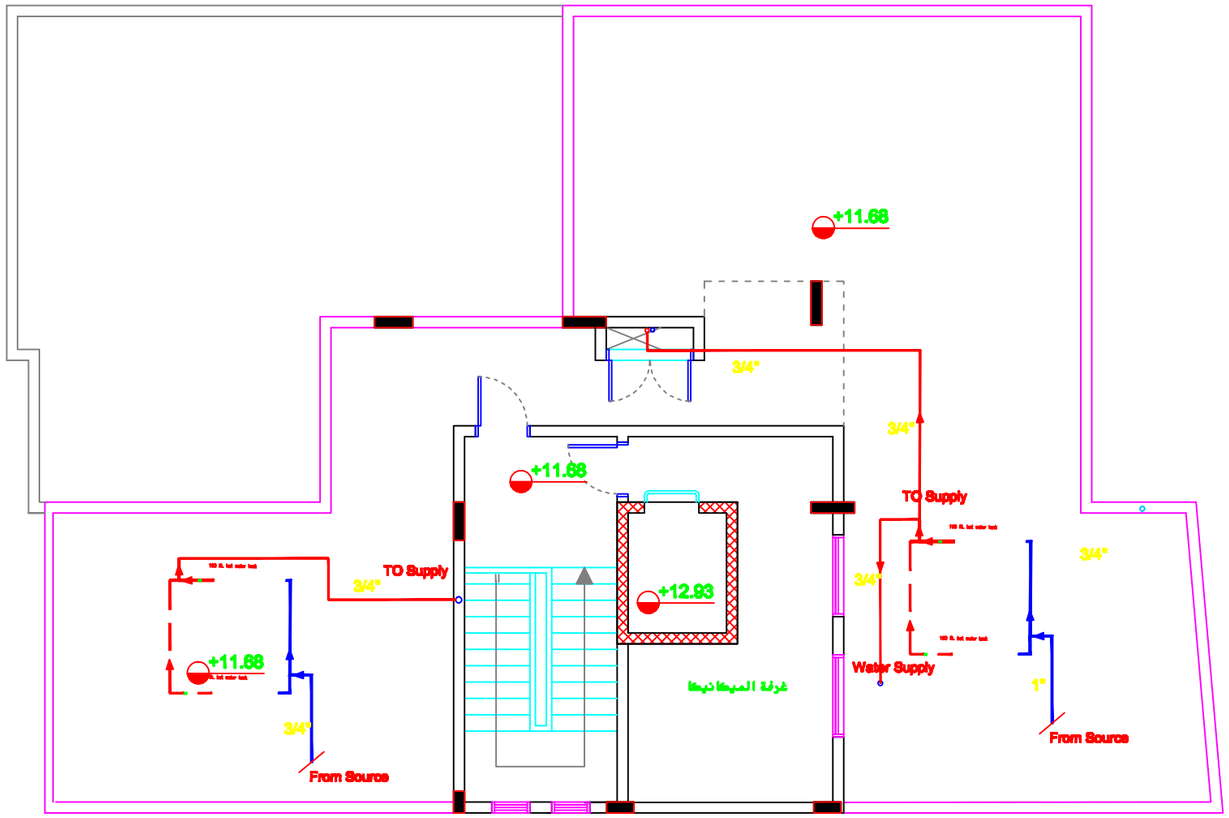

WATER DISTRIBUTION PLAN ROOF FLOOR

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
طابق السطح

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:
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JABER ABU-HAMAM

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
A 0 5	As Shown	Nov. 2014

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT
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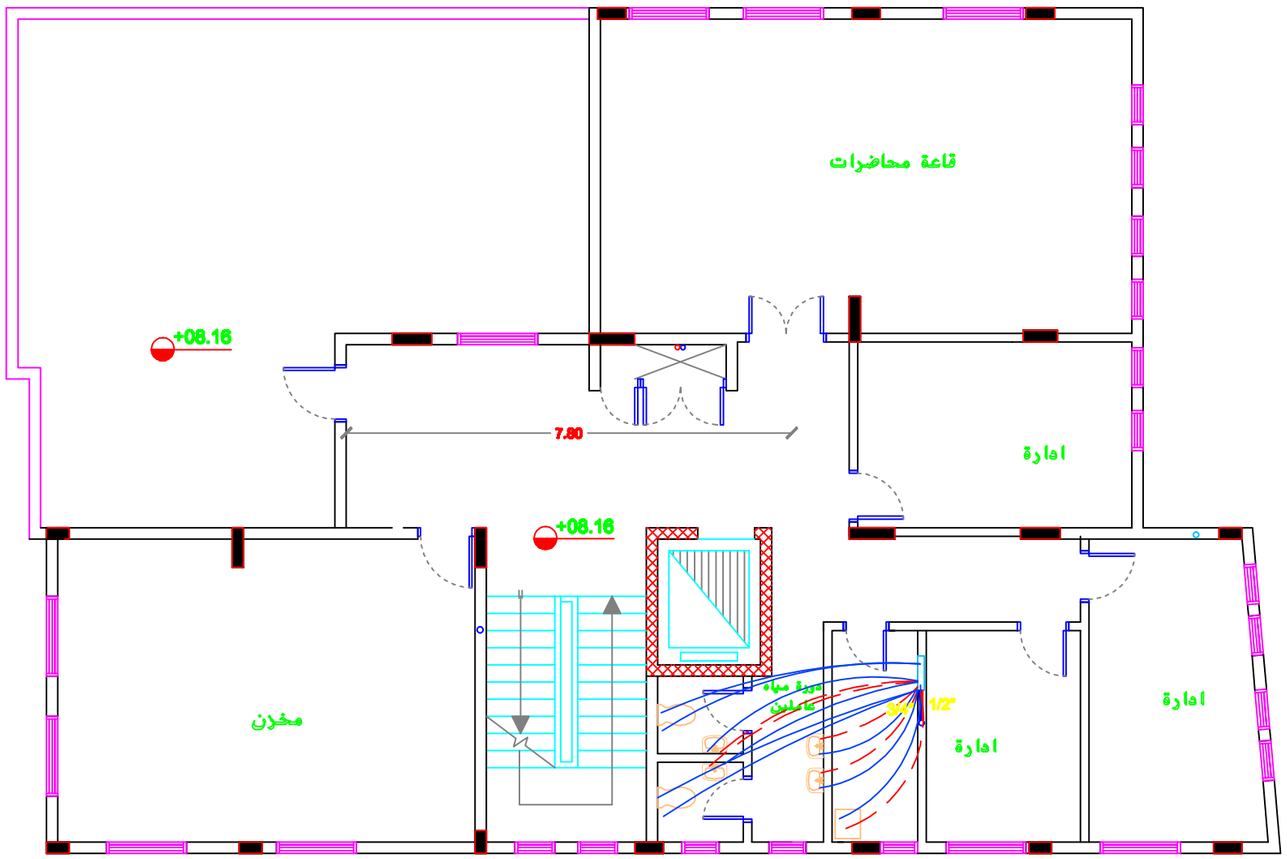

WATER DISTRIBUTION PLAN SECAND FLOOR

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
الطابق الثاني

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:
EZZAT A. JALHOOM
JABER ABU-HAMAM

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
A 0 4	As Shown	Nov. 2014

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT
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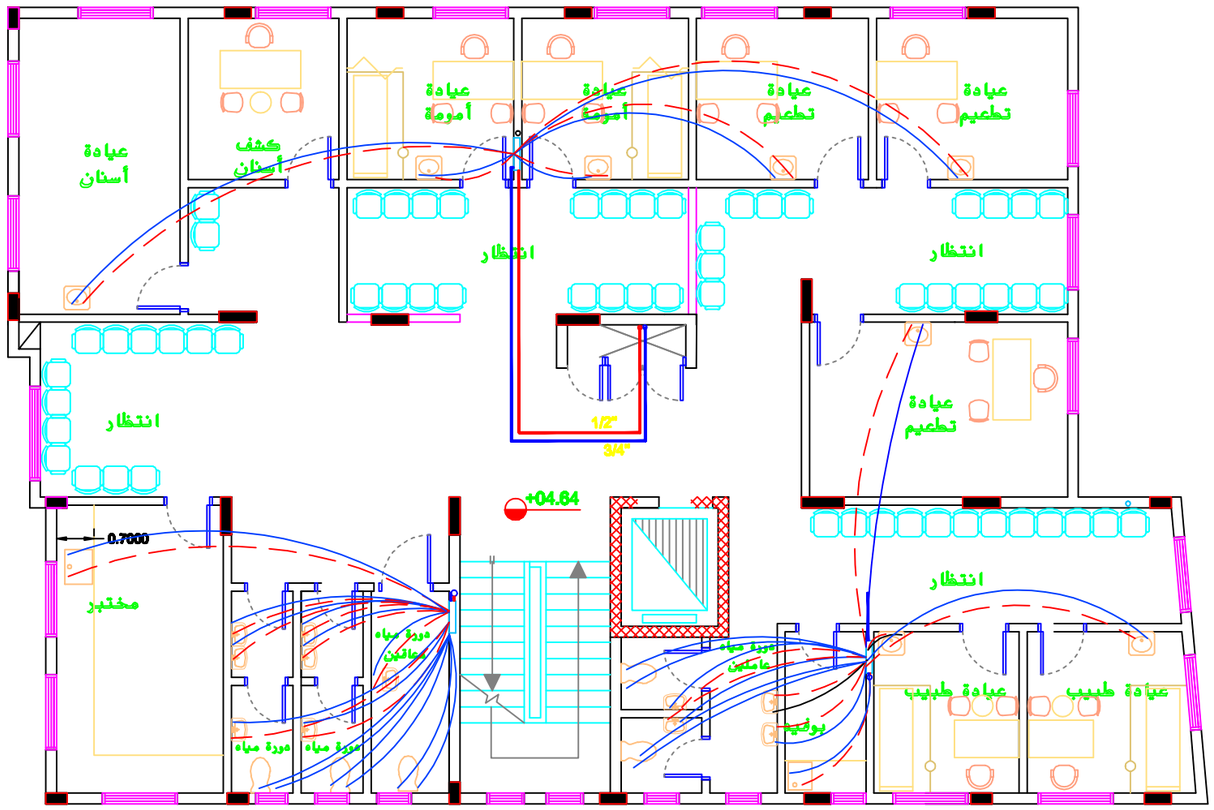

WATER DISTRIBUTION PLAN FIRST FLOOR

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
الطابق الأول

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:
EZZAT A. JALHOOM
JABER ABU-HAMAM

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.	SCALE	DATE
A 0 3	As Shown	Nov. 2014

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT
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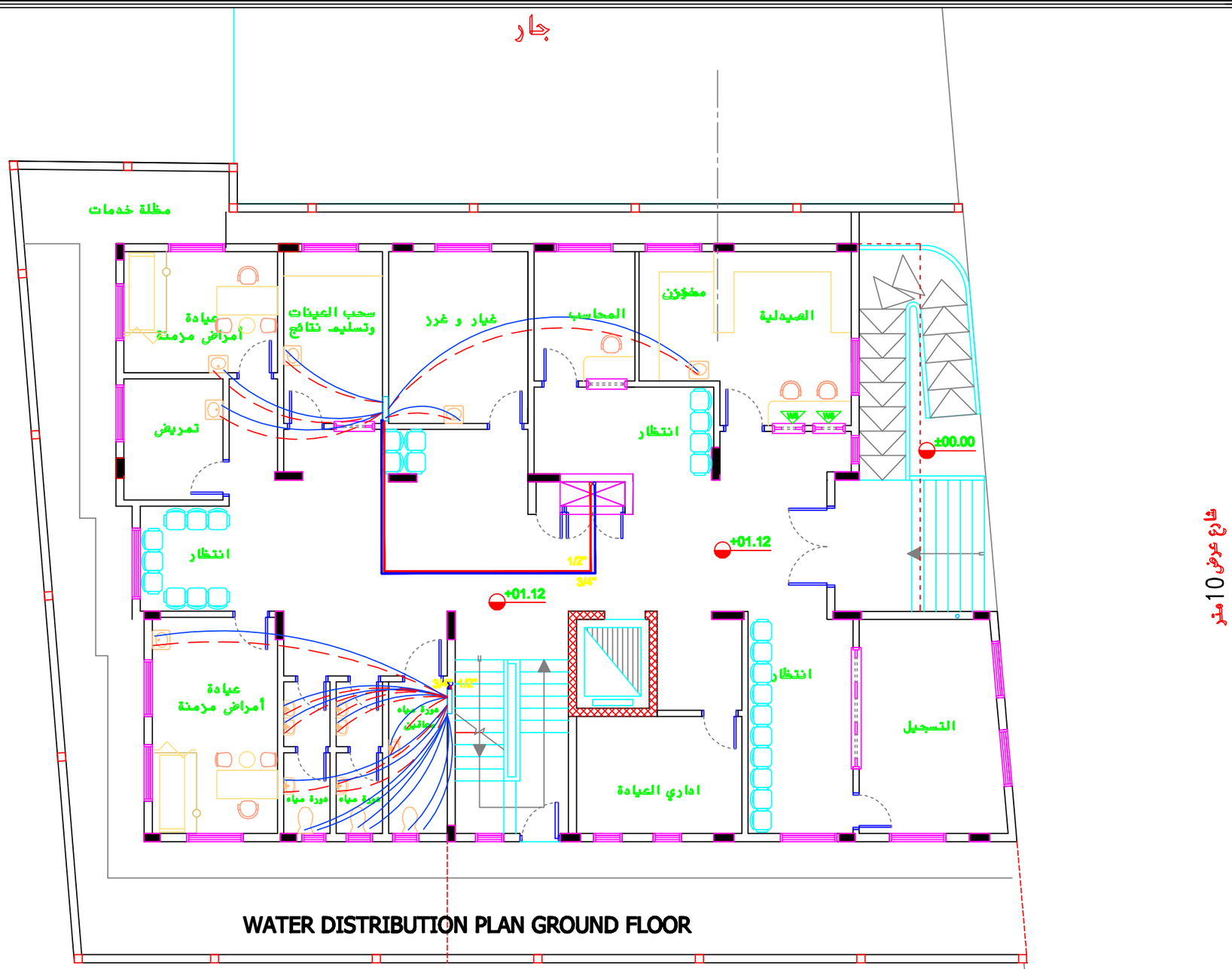

WATER DISTRIBUTION PLAN GROUND FLOOR

PALESTINIAN NATIONAL AUTHORITY
MINISTRY OF HEALTH
ENG. & MAINTENANCE ADMINISTRATION
ENG. OFFICE & DEVELOPMENT DEPARTMENT

NOTES:

PROJECT NAME:
عيادة عطا حبيب

DRAWING NAME:
الطابق الأرضي

Architect:
EMAN ELHALLAQ SALWA ABDEL AL
HANAN ABDEL AL SHAYMAA ABU RAS

Civil:

Electrical:

Mechanical:
EZZAT A. JAUHOOM
JABER ABU-HAMAM

Director of Engineering Office &Development Department:
ENG. MOHAMMAD ABU HAMDA

General Director of Engineering & Maintenance:
ENG. BASSAM ALHMADEEN

DRAWING NO.			SCALE	DATE
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PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT