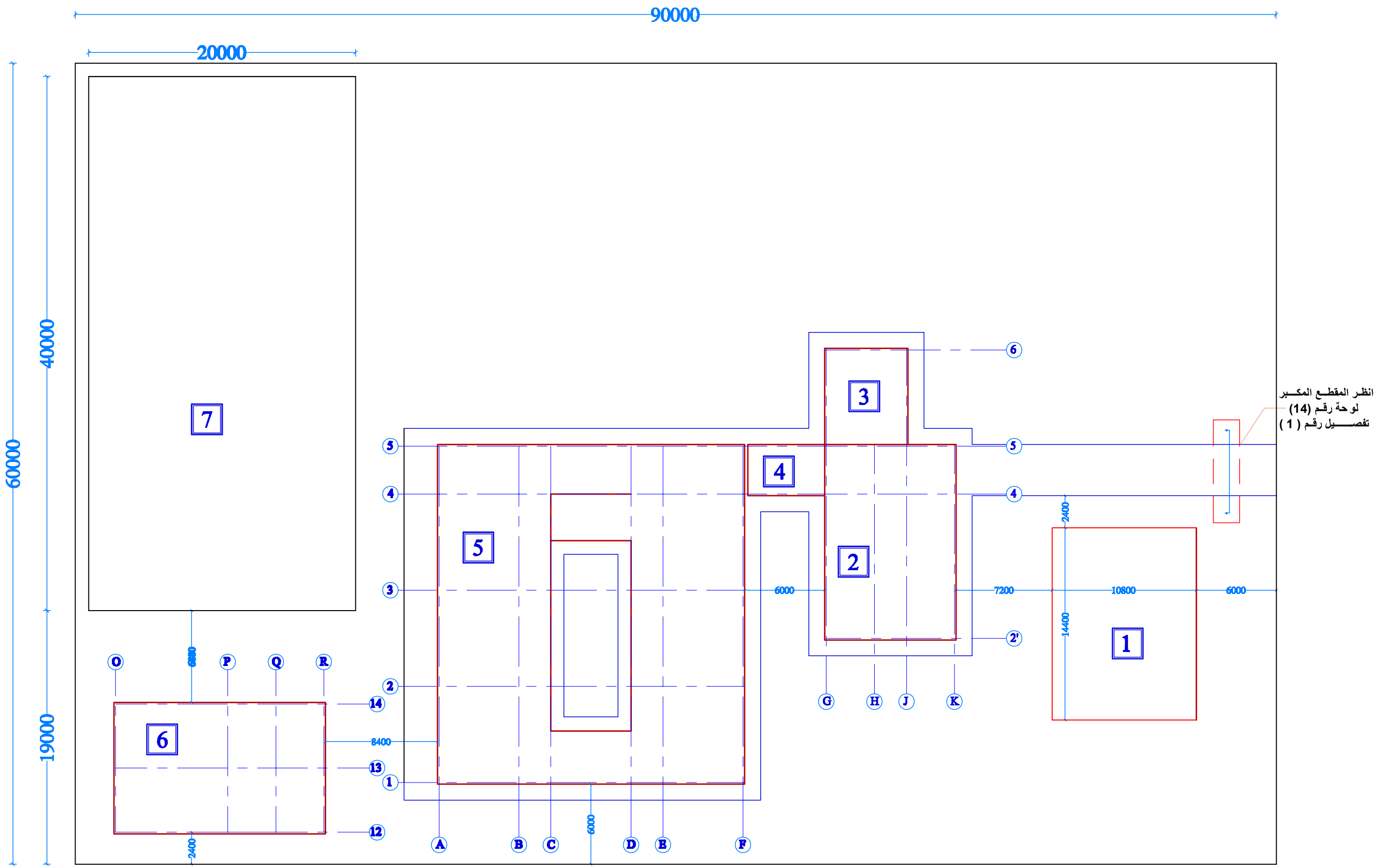


1 القاعة الكبرى

2 الجزء الاداري

3 جناح الورشة

4 ممر اتصال

5 جناح الصفوف

6 المجاميع الصحية

7 ساحة الالعاب

DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. AL- ABDALEE

Job Title:
مدرسة ابتدائية
نموذجية سعة 12 صف

Drawing Title:
مخطط الموقع

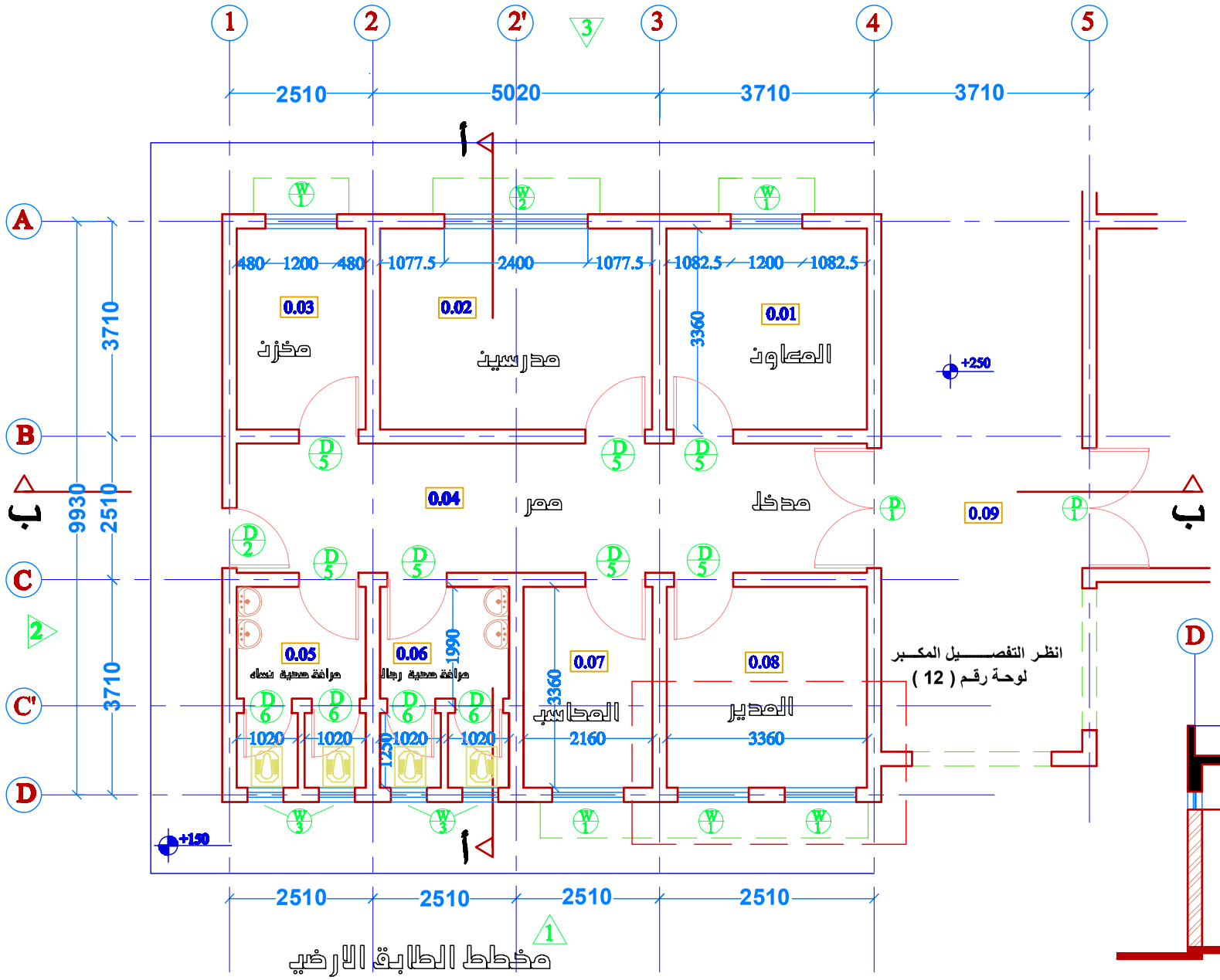
Job No.:

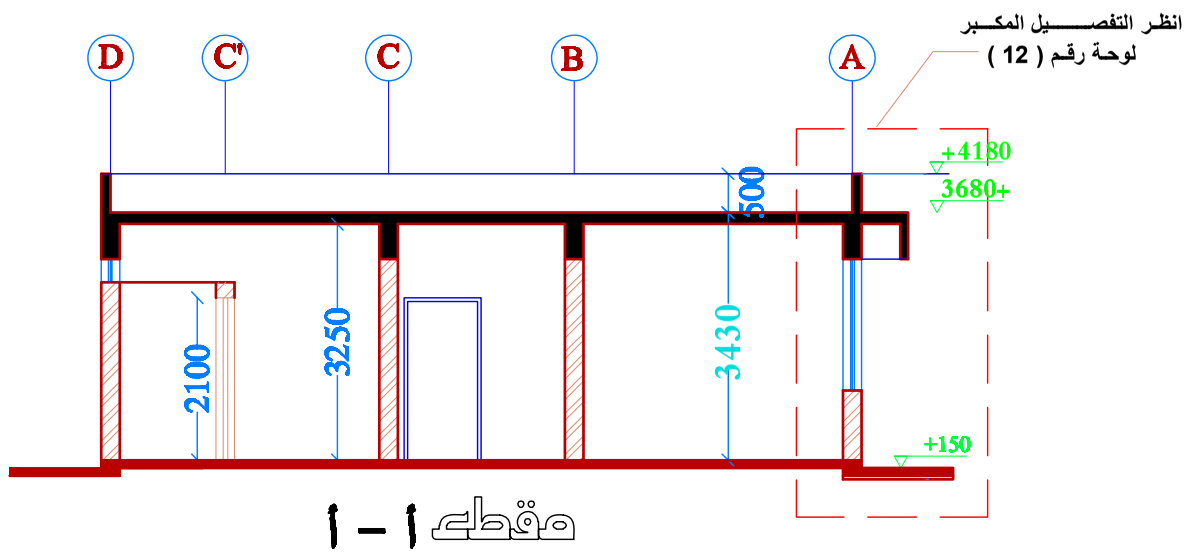
DRG No.: AR/00

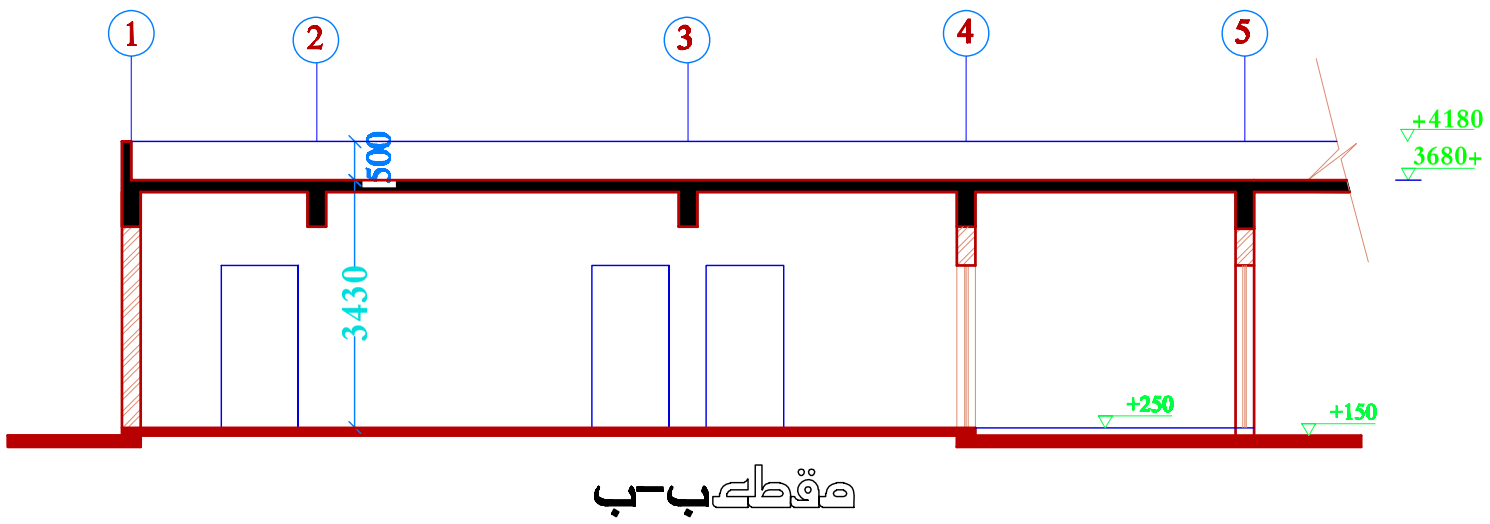
REVISION SUFFIX:

CL/SFB:

SCALE: 1/500 | DATE: 3/10/2004 | DRAWING: waleed al - abdalee | CHECKED:







	DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. AL- ABDALEE

Job Title:
مدرسة ابتدائيـــة
نموذجيـــة سـعة 12 صـف

Drawing Title:
جنـاح الادارة
مخططات/مقـاطع

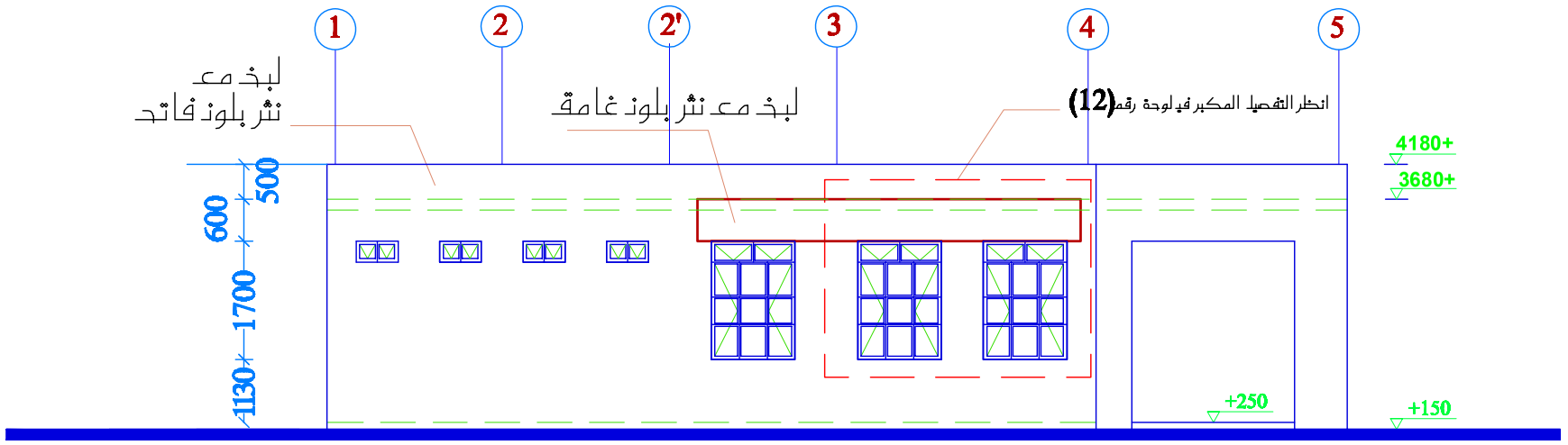
Job No.:

DRG No.: AR/01

REVISION SUFFIX

CLIENT:

SCALE: 1/100 | DATE: 3/10/2004 | DRAWING: waleed al - abdalee | CHECKED:



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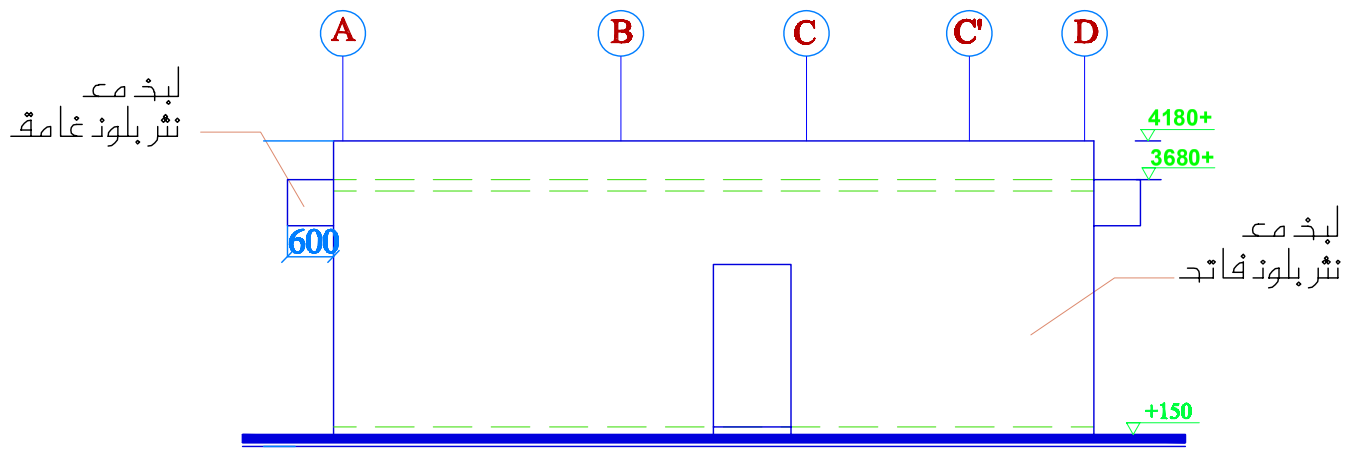

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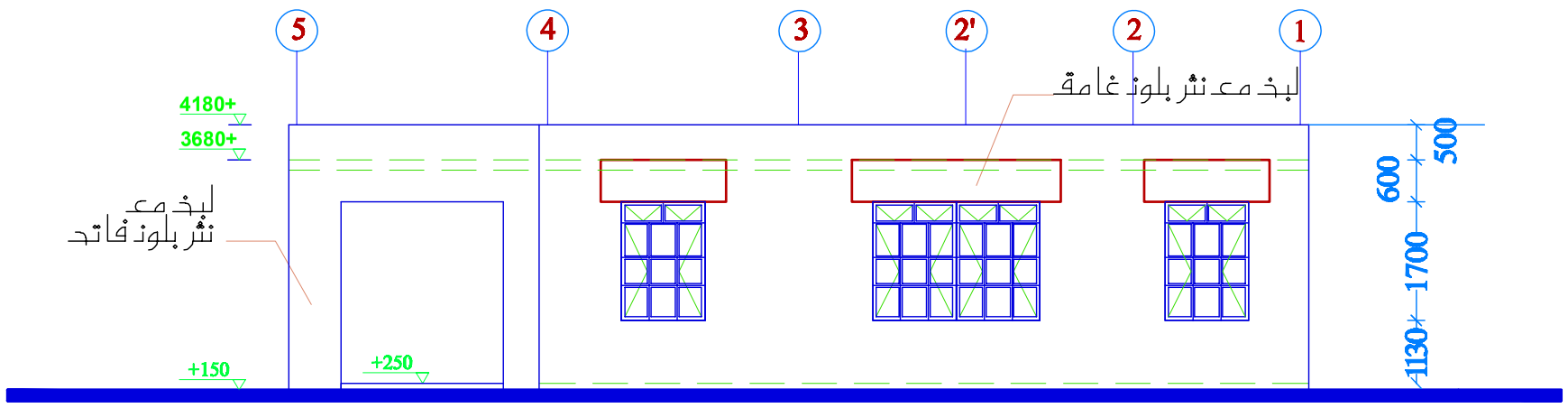


واجهة(3)

DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. AL- ABDALEE

Job Title:

Drawing Title: جناح الادارة
واجهات

Job No.:

DRG No.: AR/02

REVISION SUFFIX:

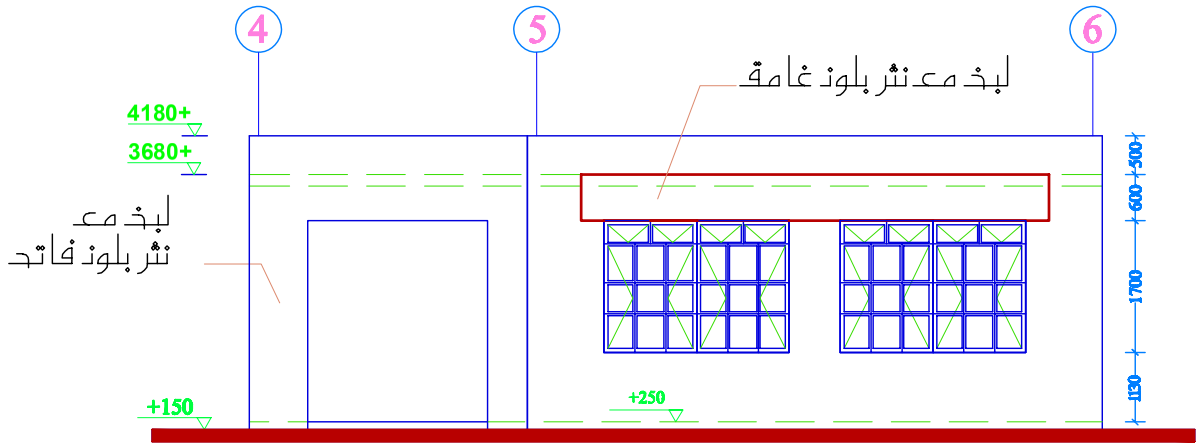
CLIENT:

SCALE: 1/100

DATE: 3/10/2004

DRAWING: waleed al - abdalee

CHECKED:



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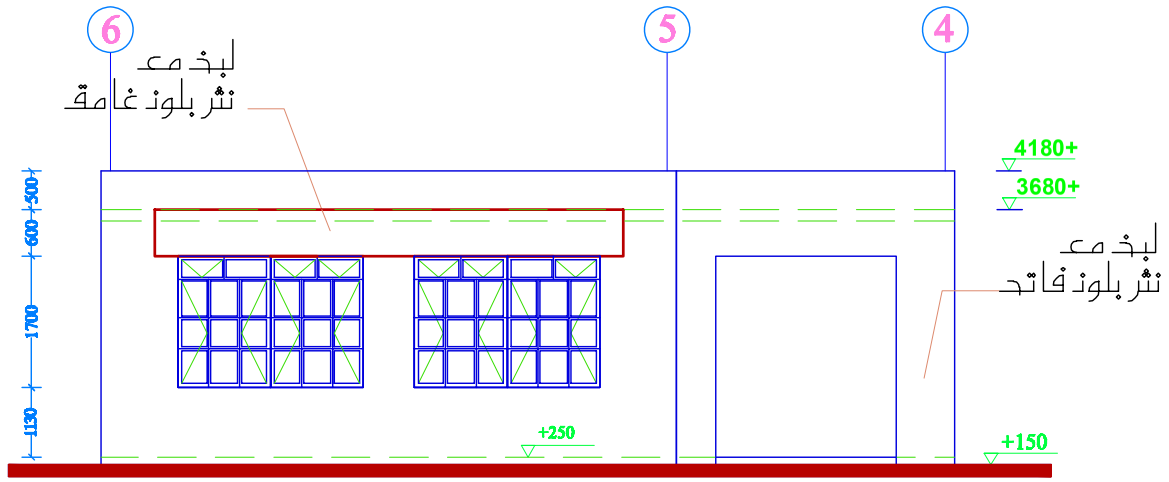

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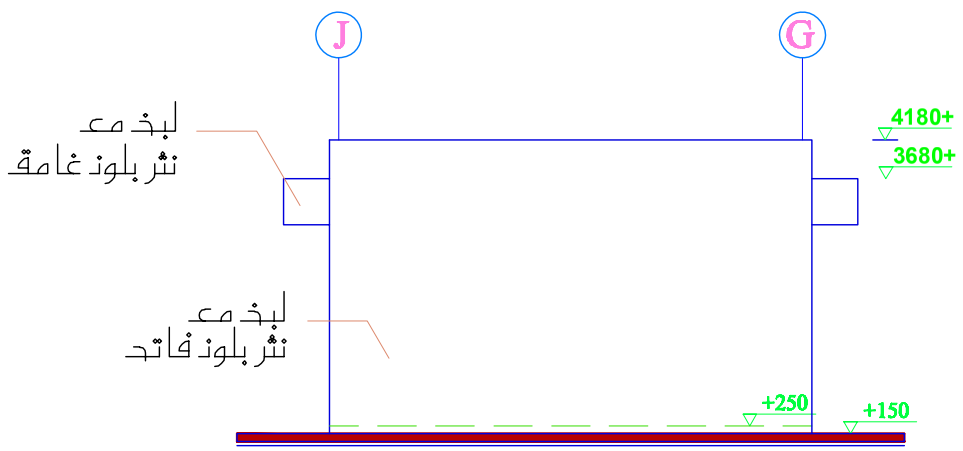

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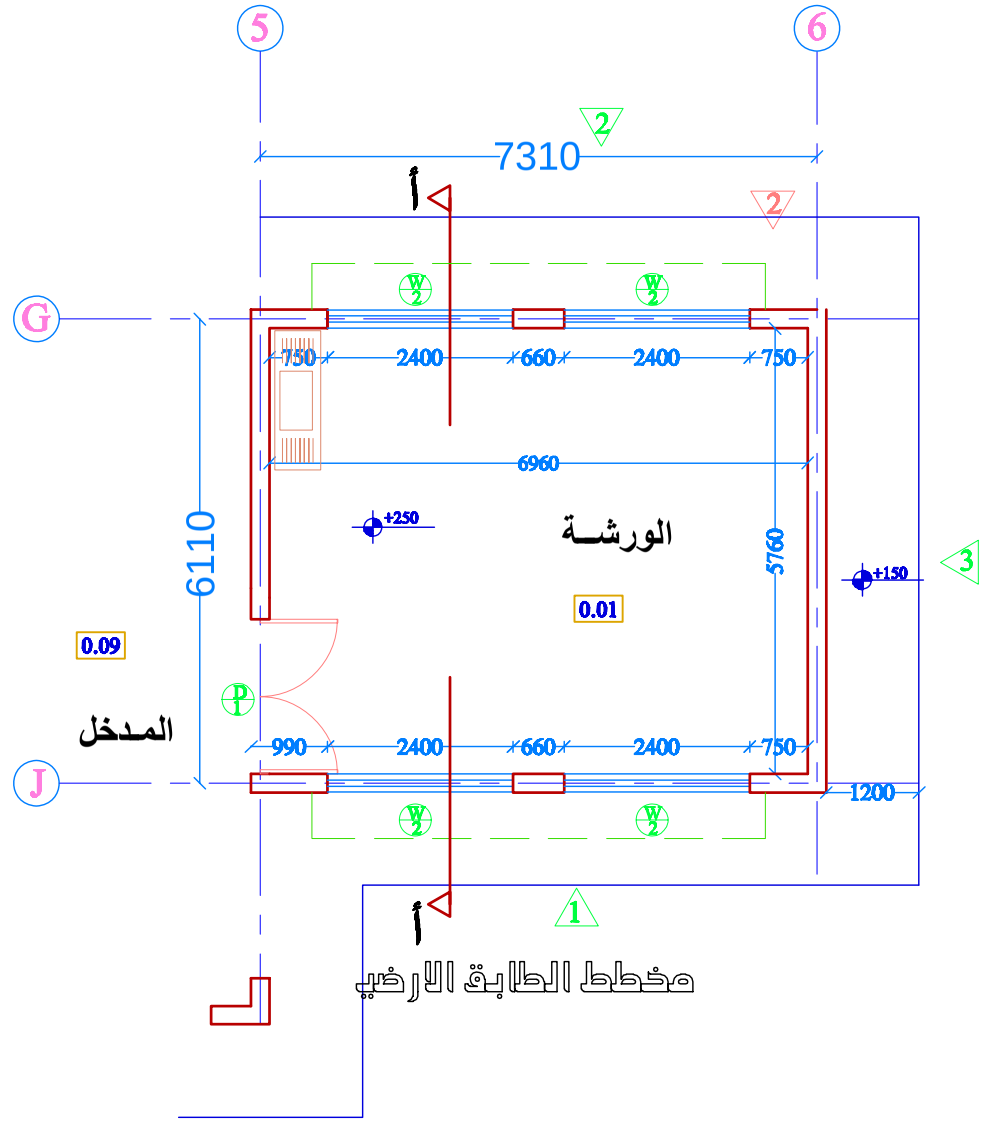
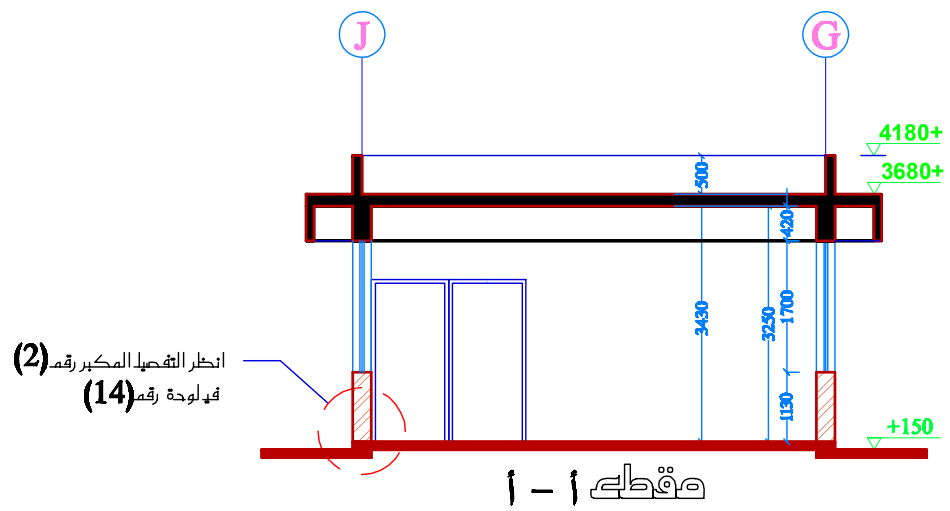


مخطط الطابق الارضي



مقطع أ – أ

	DATE	INIT	REVISIONS

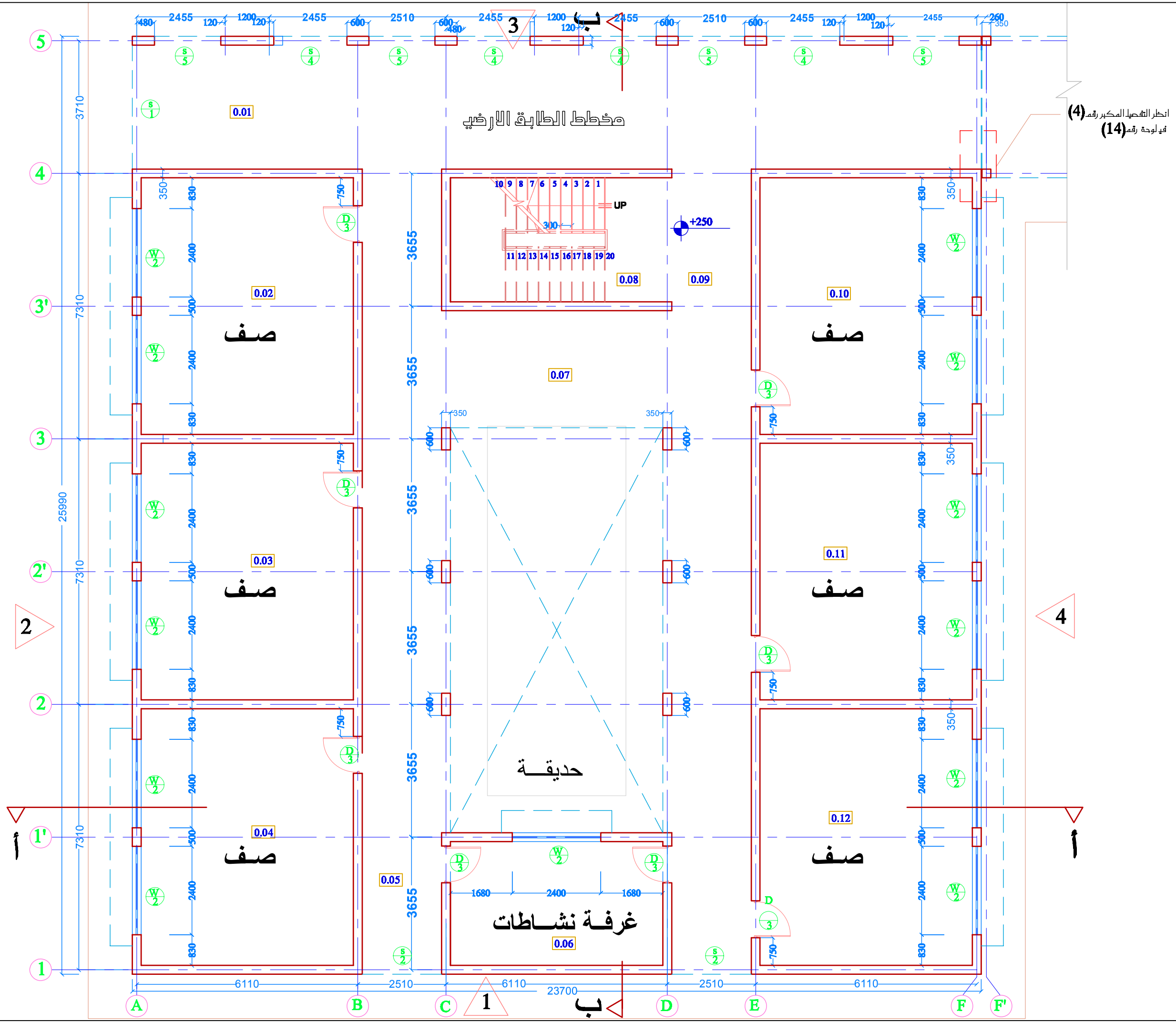
MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. AL-AIDALEE

Job Title: مدرسة ابتدائيـــــة
نموذجيـــة سـعة 12 صف

Drawing Title: جنـاح الورش
مخططات/مقـاطع / واجهات

Job No.:
CL/SFB:
DRG No.: AR/03
REVISION SUFFIX:
SCALE: 1/100
DATE: 3/10/2004
DRAWING: waleed al - aidalee
CHECKED:



DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. AL- AIDALEE

Job Title:

Drawing Title: جناح الصفوف
مخططات

Job No.:

C.S/SFB:

DRG No.: AR/04

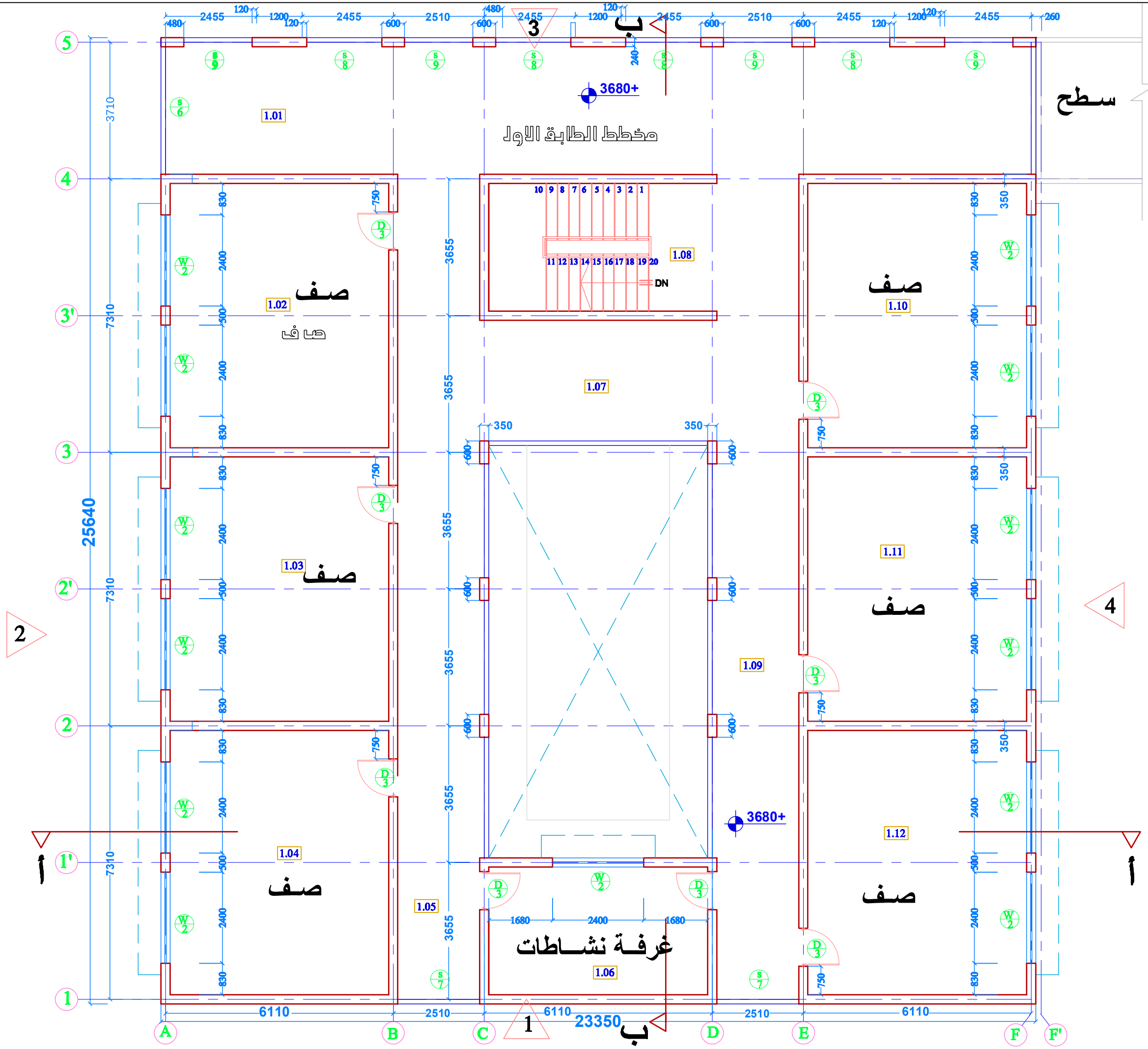
REVISION SUFFIX:

SCALE: 1/100

DATE: 3/10/2004

DRAWING: waleed al - aidalee

CHECKED:



DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. AL- ABDALEE

Job Title: مدرسة ابتدائيـــــة نموذجيـــة سـعة 12 صف

Drawing Title: جنـاح الصـــفوف مخططات

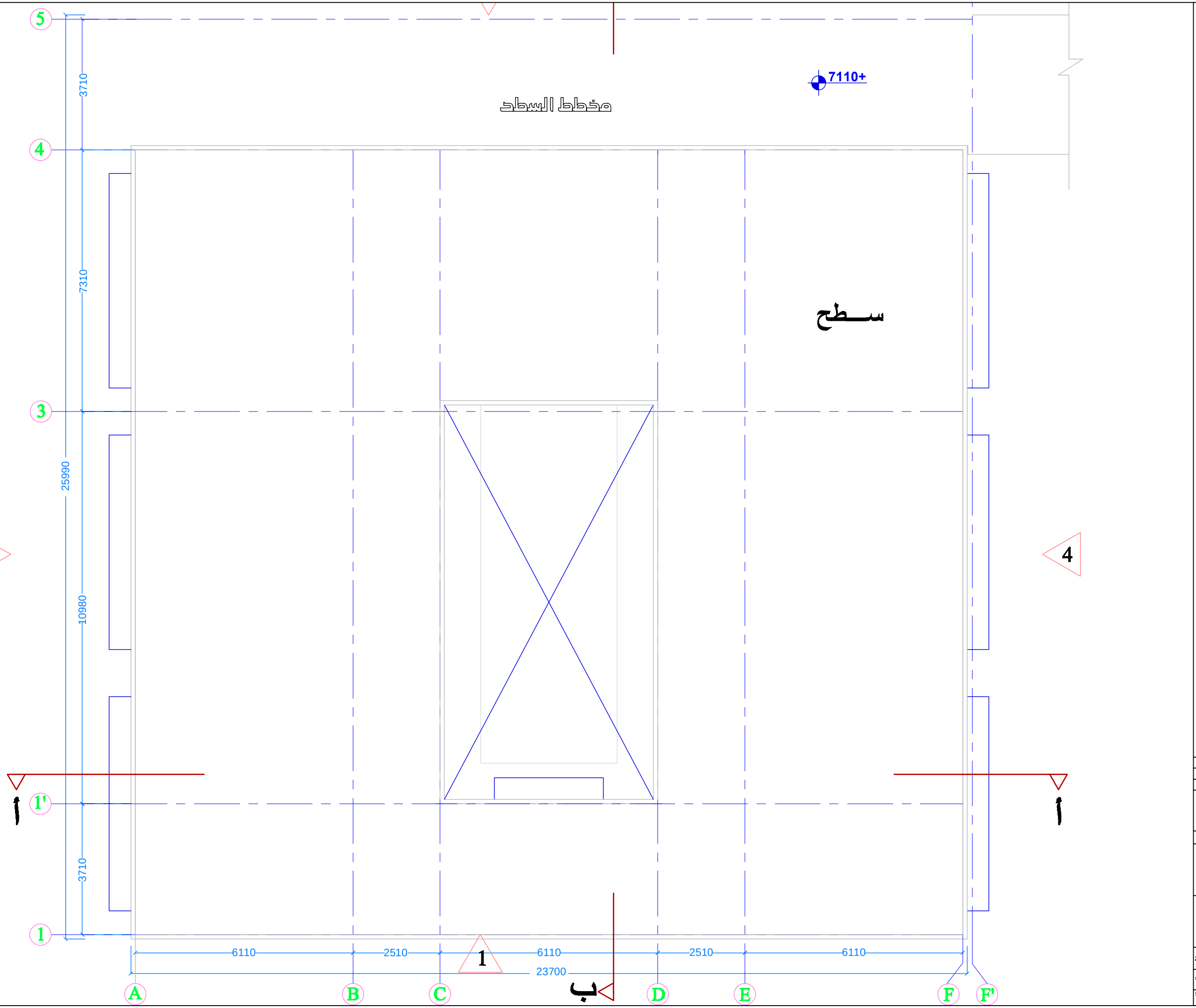
Job No.:

DRG No.: AR/05

REVISION SUFFIX:

C.J.NO:

SCALE: 1/100 | DATE: 3/10/2004 | DRAWING: waleed al - abdalee | CHECKED:



DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. AL- AIDALEE

Job Title: مدرسة ابتدائيـــــة نموذجيــة سـعة 12 صف

Drawing Title: جنـاح الصـــفوف مخططات

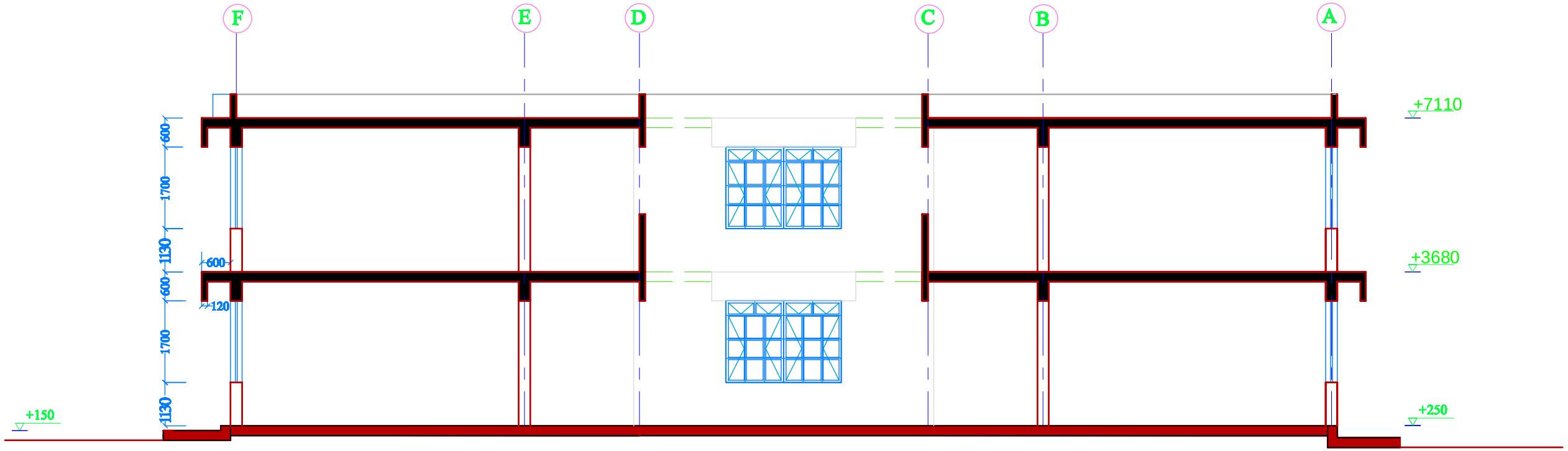
Job No.:

C.S/FB:

DRG No.: AR/06

REVISION SUFFIX:

SCALE: 1/100 | DATE: 3/18/2004 | DRAWING: waleed al - aidalee | CHECKED:



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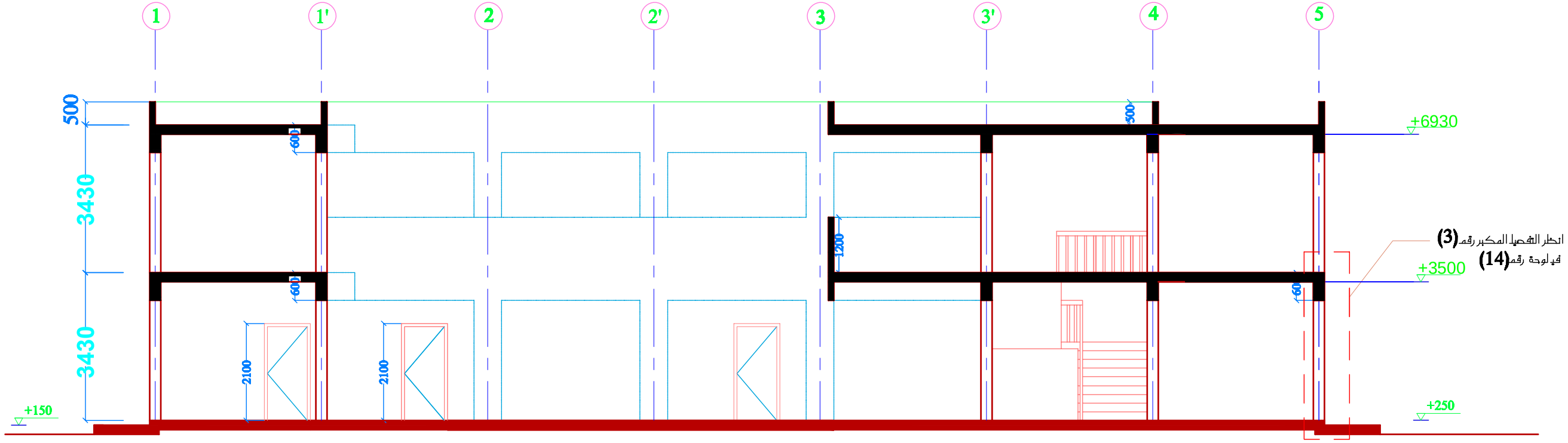


مقطع ب–ب

	DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. AL- ABDALEE

Job Title:
مدرسة ابتدائيـــــة
نموذجيـــة سـعة 12 صـف

Drawing Title:
جنـاح الصـــفوف
مقـاطع

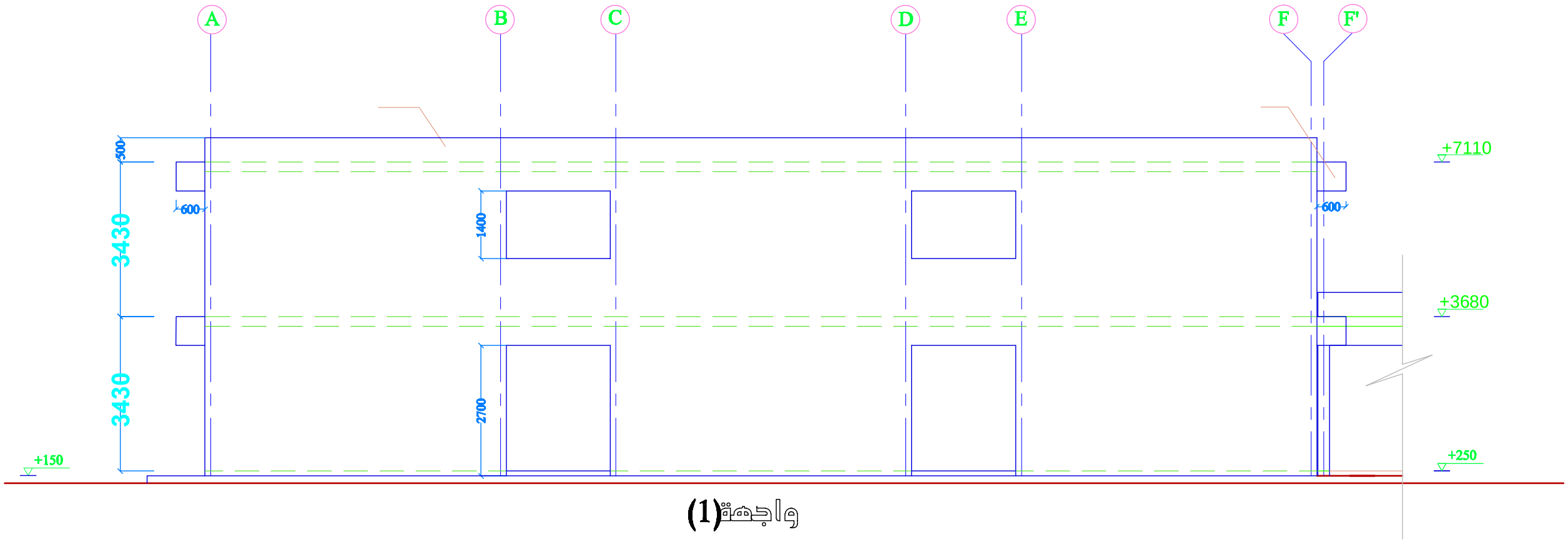
Job No.

DRG No. AR/07

REVISION SUFFIX

C.J.N/B

SCALE 1/100 | DATE 3/10/2004 | DRAWING waleed al - abdalee | CHECKED



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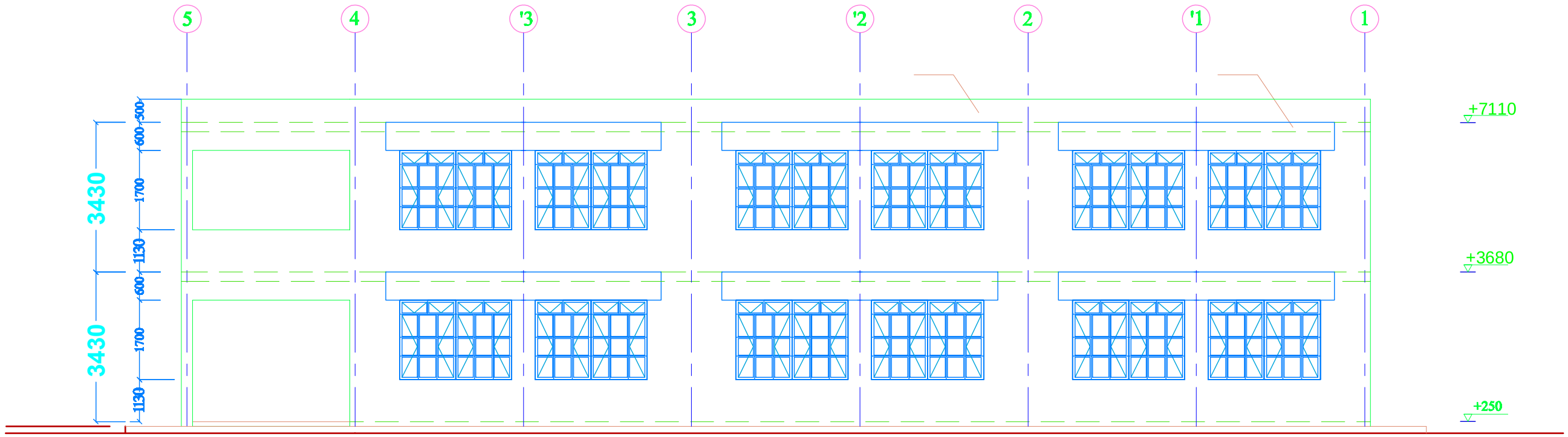


واجهة(2)

DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. AL- AIDALEE

Job Title: مدرسة ابتدائيـــــة نموذجيـــة سـعة 12 صـف

Drawing Title: جنـاح الصـــفوف واجهات

Job No.:

C.J/FP:

DRG No.: AR/08

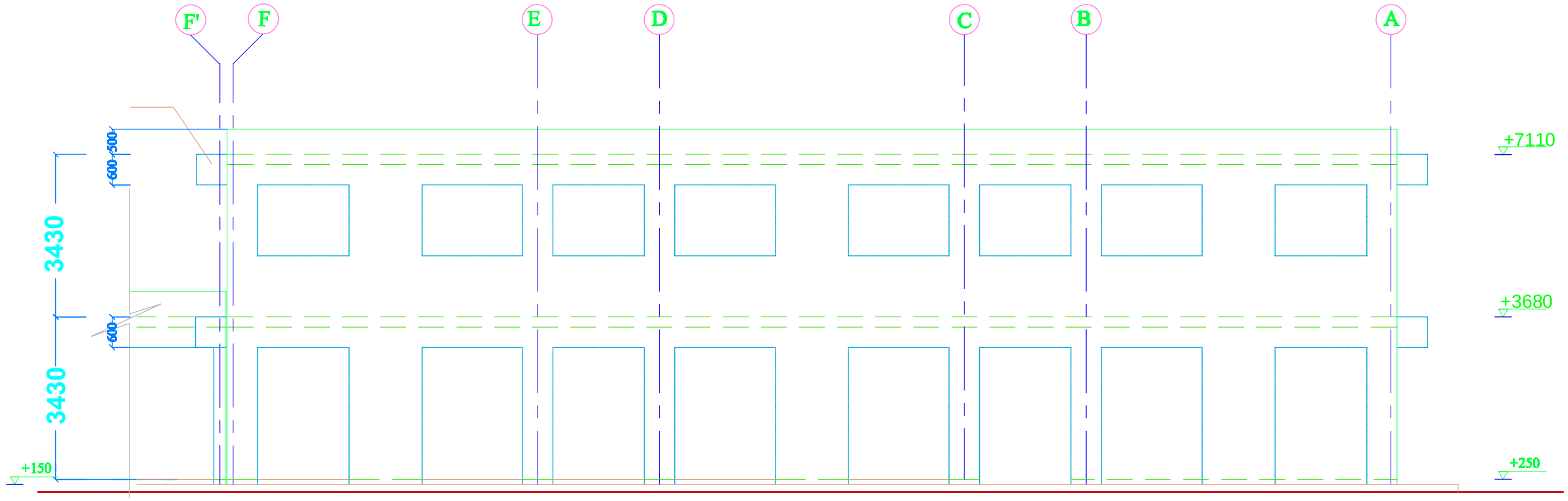
REVISION SUFFIX:

SCALE: 1/100

DATE: 3/10/2004

DRAWING: waleed al - abidee

CHECKED:



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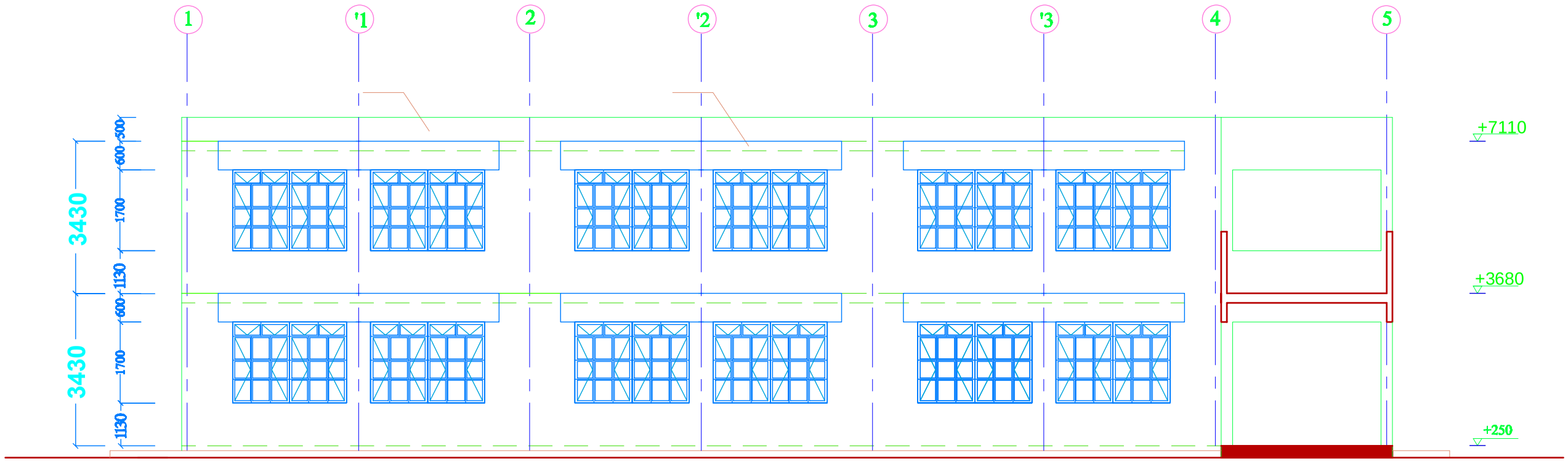


واجهة(4)

DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. AL- ABDALEE

Job Title:
مدرسة ابتدائيـــــة
نموذجيـــة سـعة 12 صـف

Drawing Title:
جنـاح الصـــفوف
واجهات

Job No.:

C.A/FB

DRG No.: AR/09

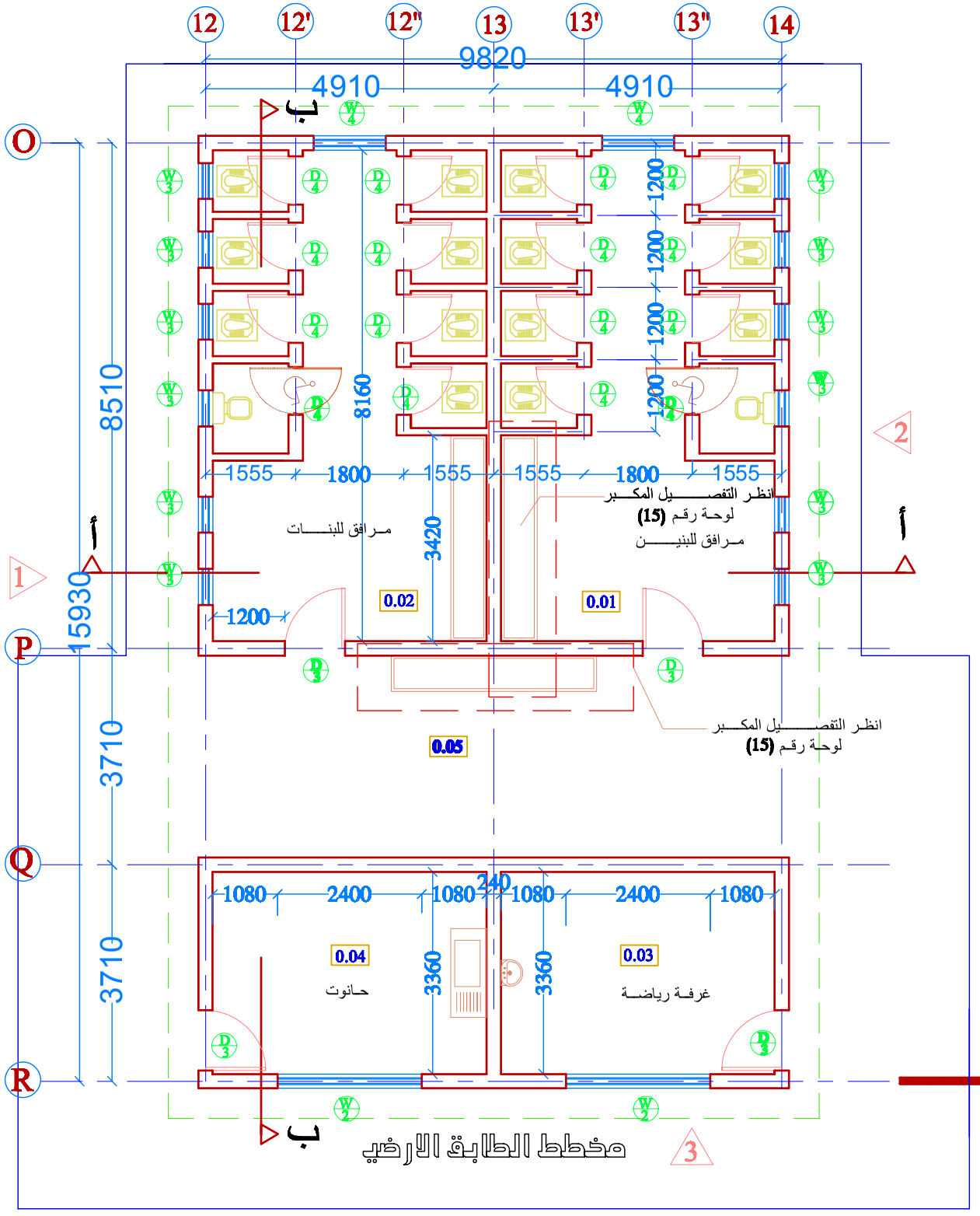
REVISION SUFFIX:

SCALE: 1/100

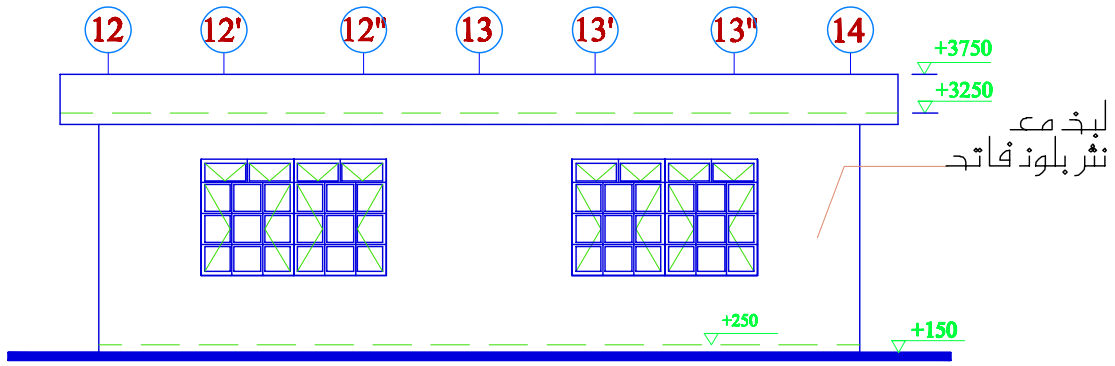
DATE: 3/10/2004

DRAWING: waleed al - abdalee

CHECKED:



مخطط الطابق الارضي



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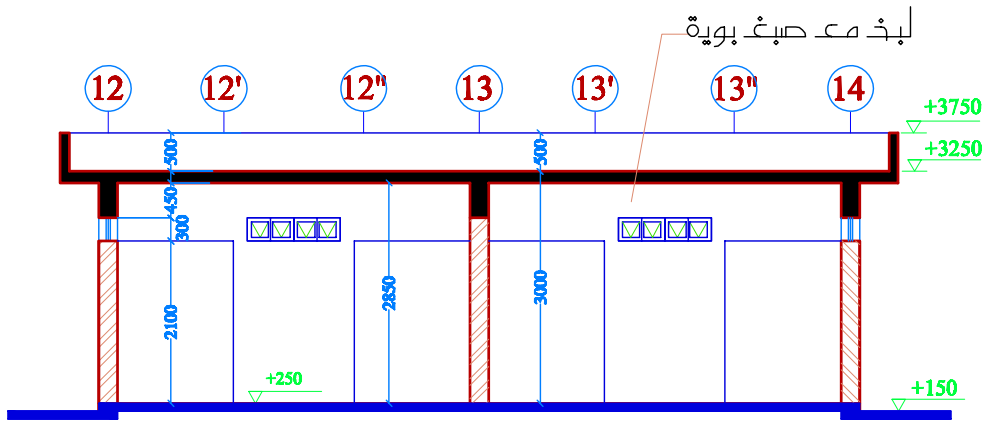

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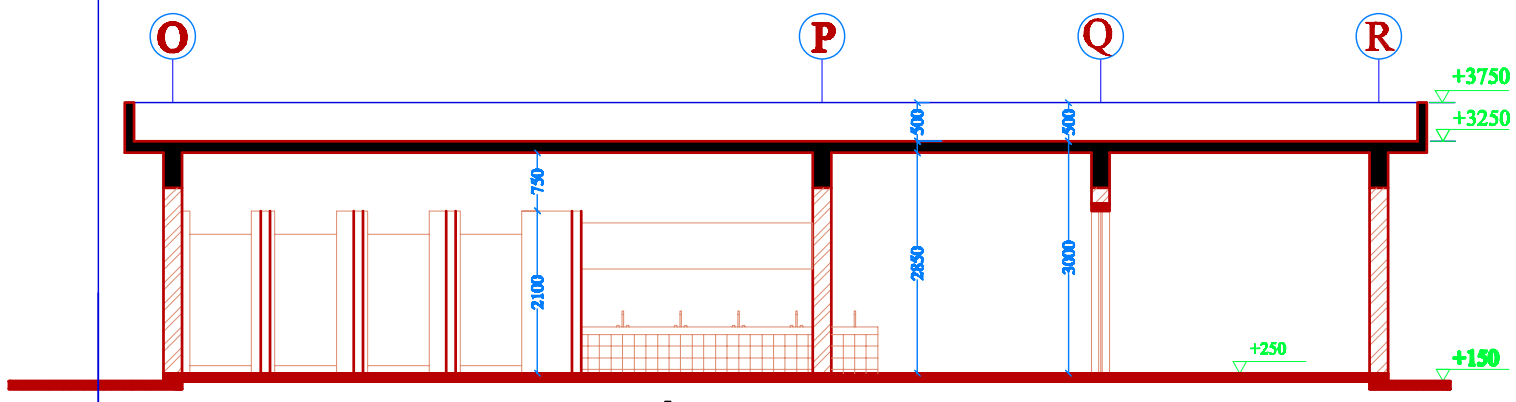

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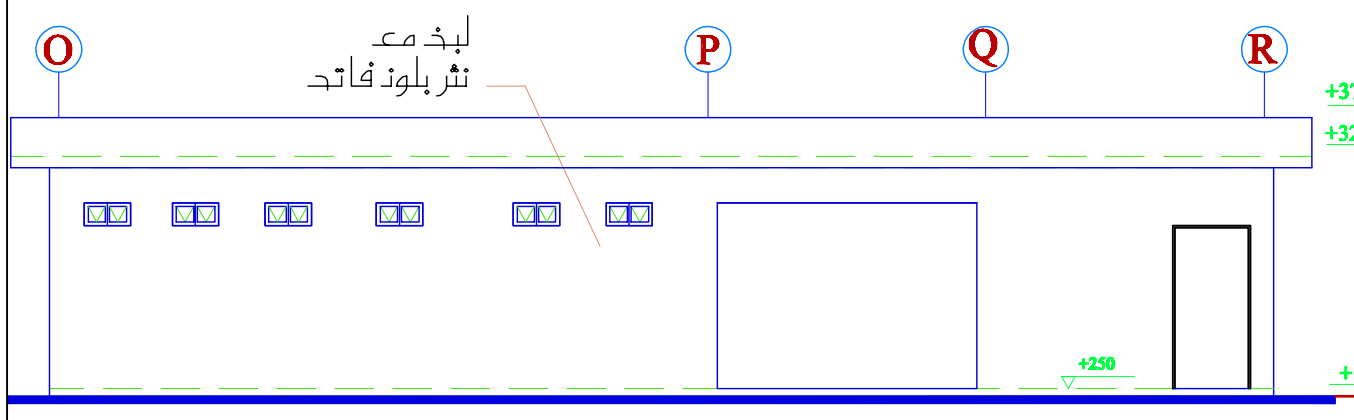

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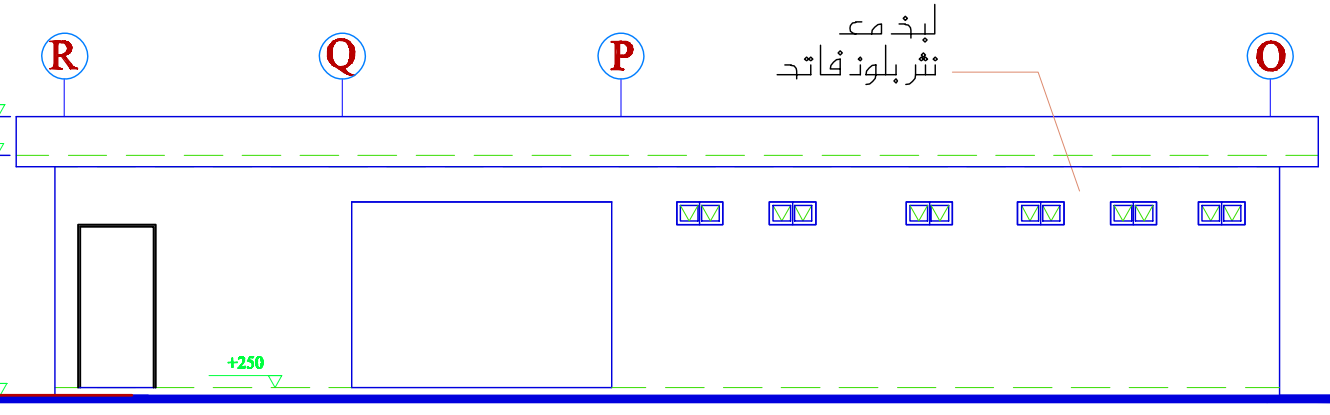


واجهة(2)

	DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. AL- ABDALEE

Job Title: مدرسة ابتدائيـــة
نموذجيـة سـعة 12 صف

Drawing Title: جنـاح المـرافق الصـحية
مخططات / مقـاطع / واجهات

Job No.

C.S./SFS

DRG No. AR/10

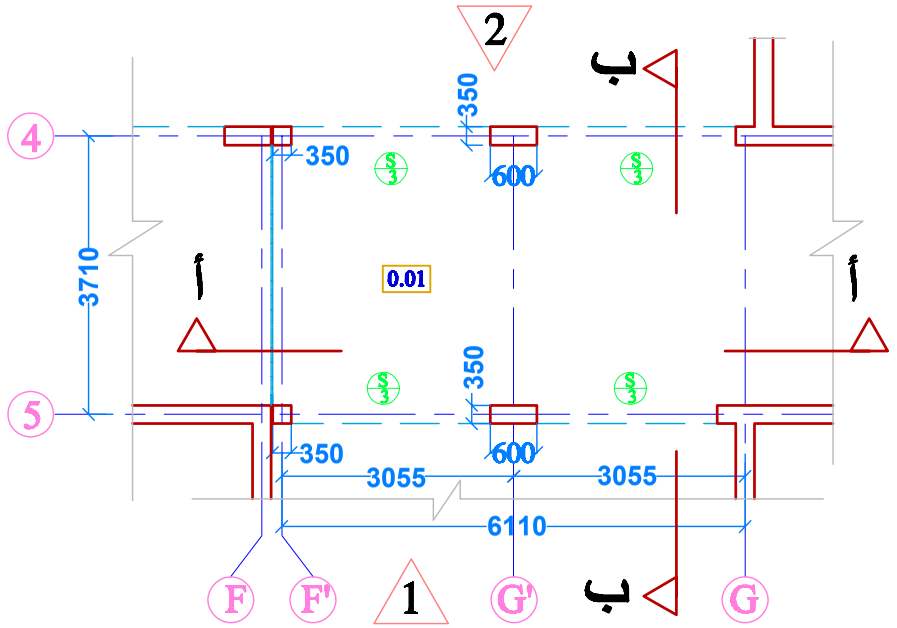
REVISION SUFFIX

SCALE 1/100

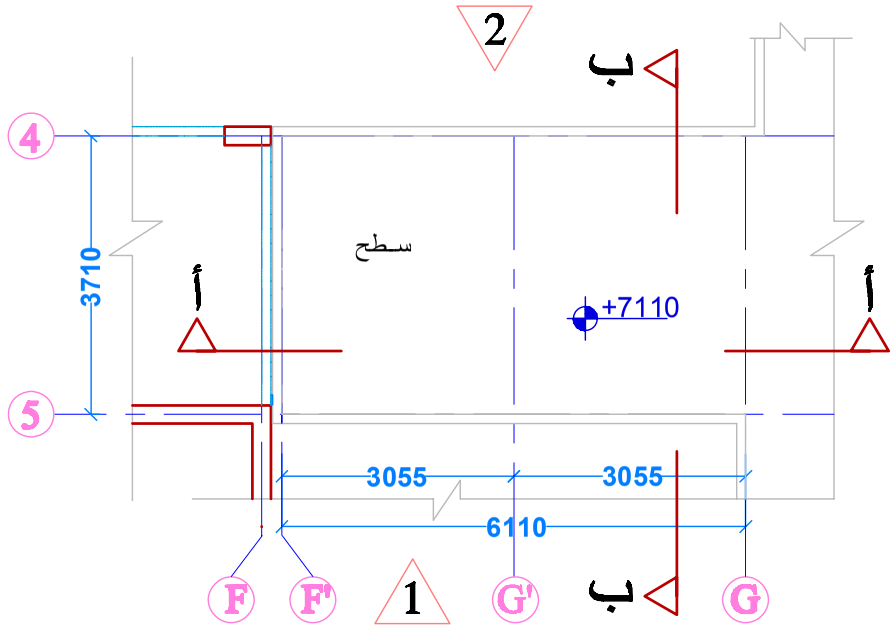
DATE 3/10/2004

DRAWING walaed al - abdalee

CHECKED



مخطط الطابق الارضي



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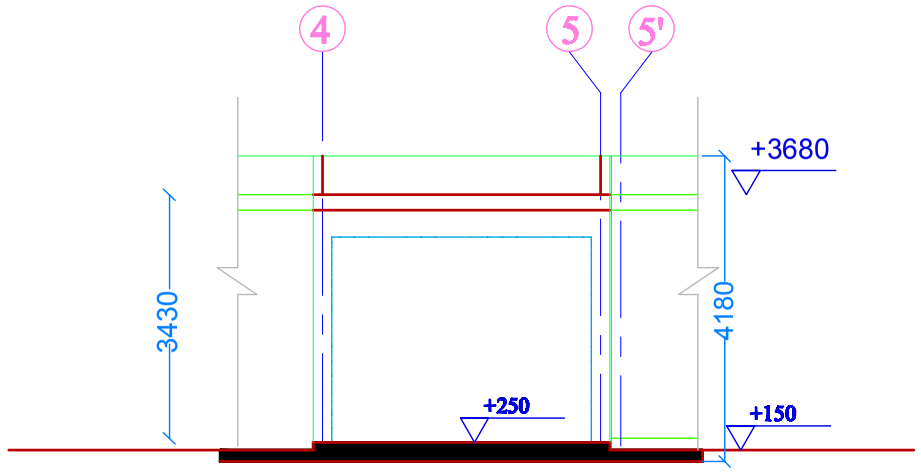

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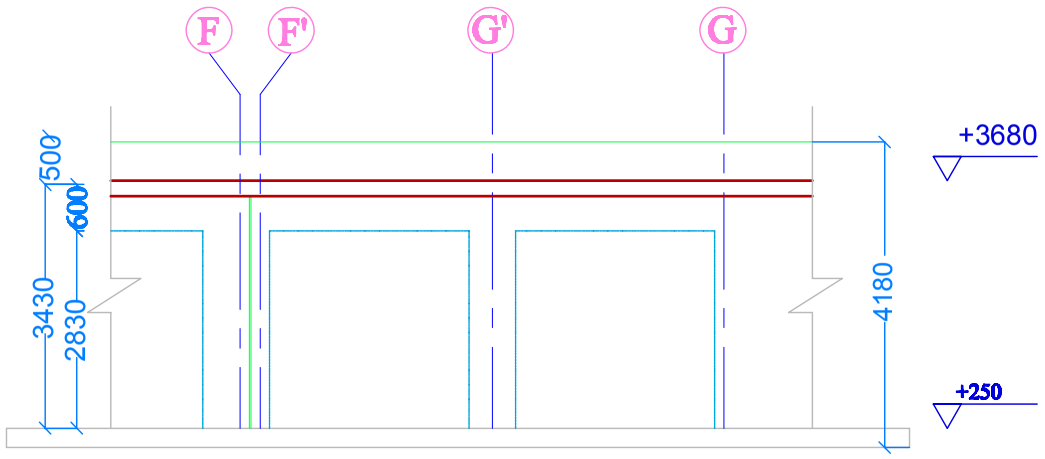
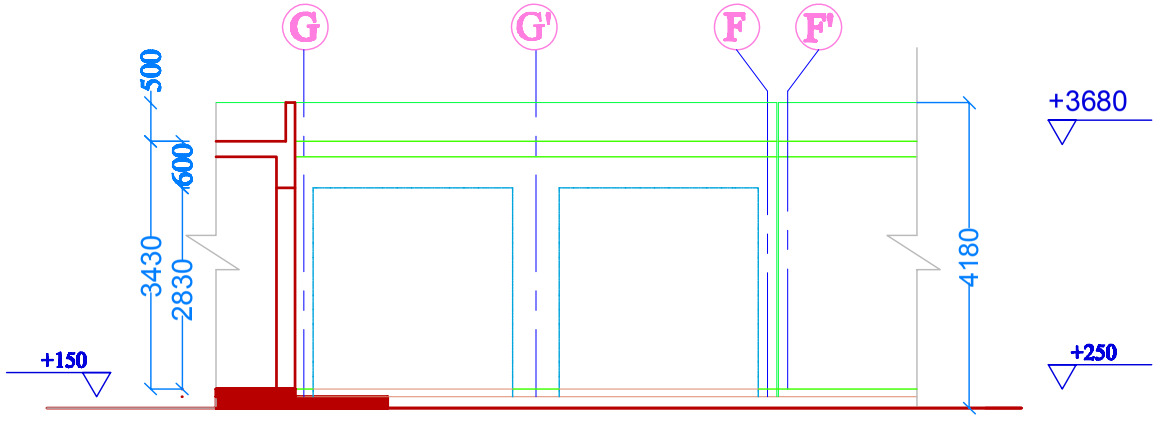


مقطع أ - أ



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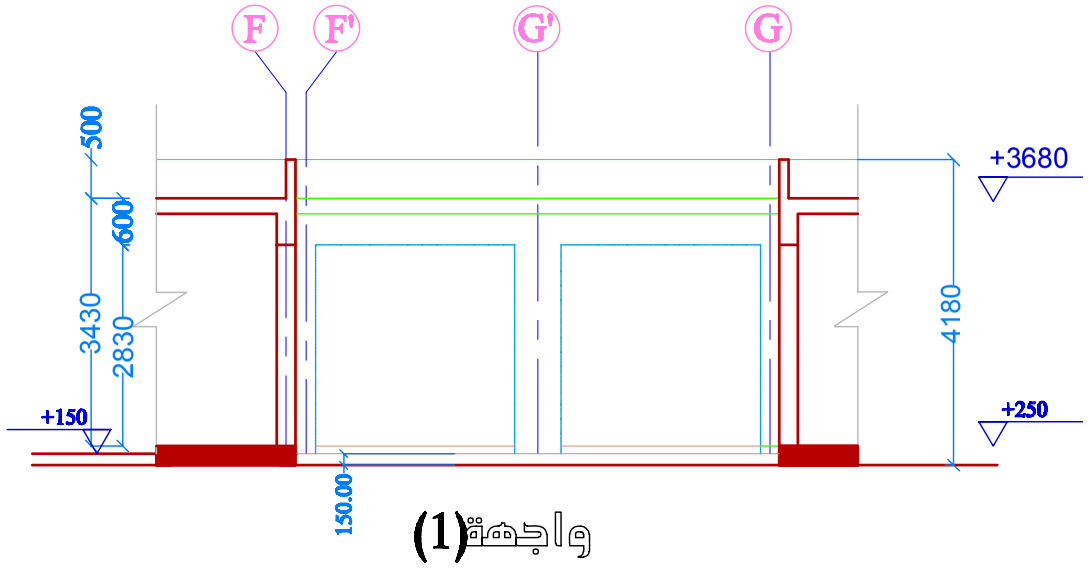


واجهة(1)

DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. AL- AIDALEE

Job Title: مدرسة ابتدائيـــة نموذجيـــة
سـعة 12 صف

Drawing Title: ممر اتصـــال بيـــن الصـــفوف والادارة
مخططات /مقـاطع / واجهات

Job No.:

C.J/PB:

DRG No.: AR/11

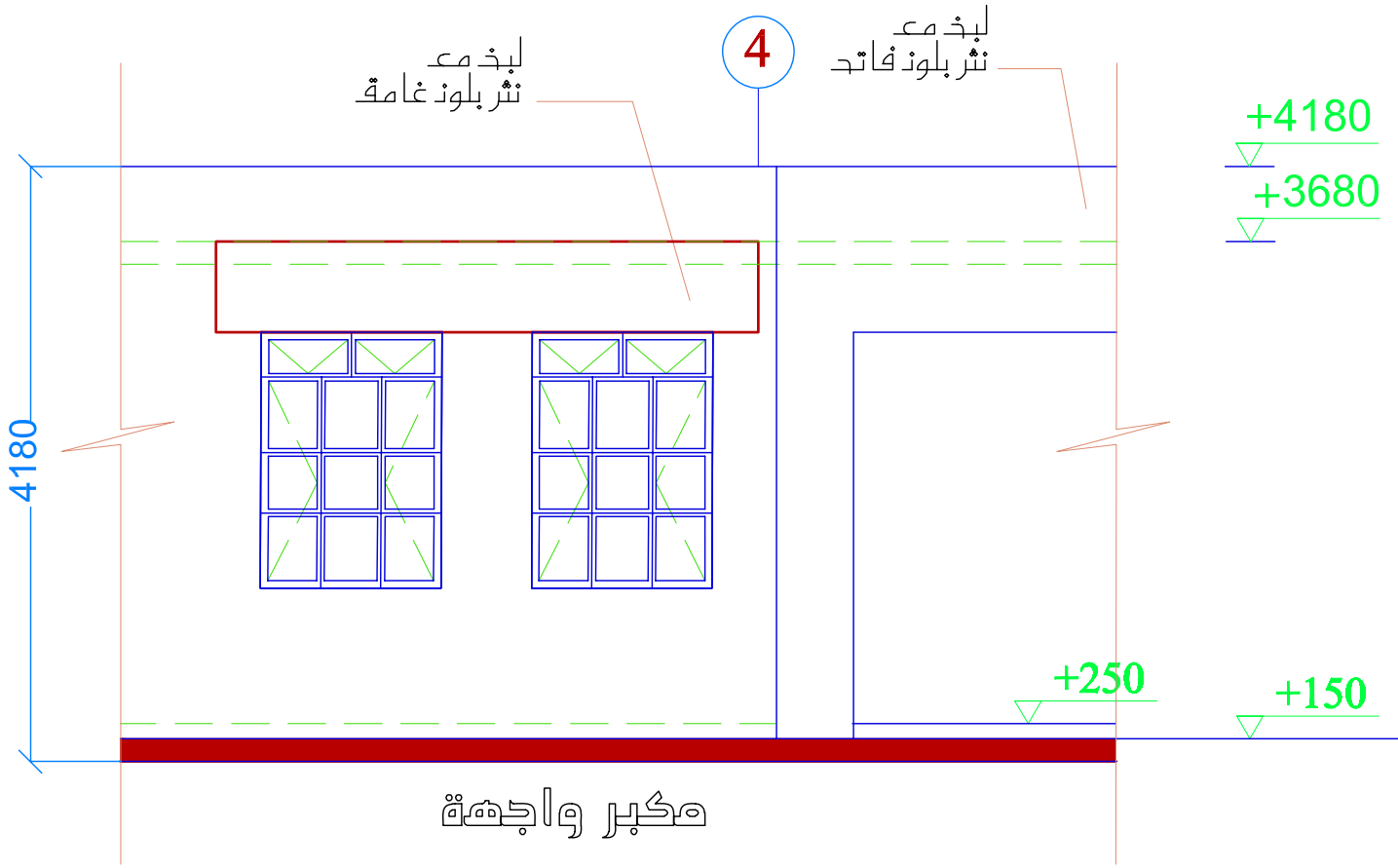
REVISION SUFFIX:

SCALE: 1/100

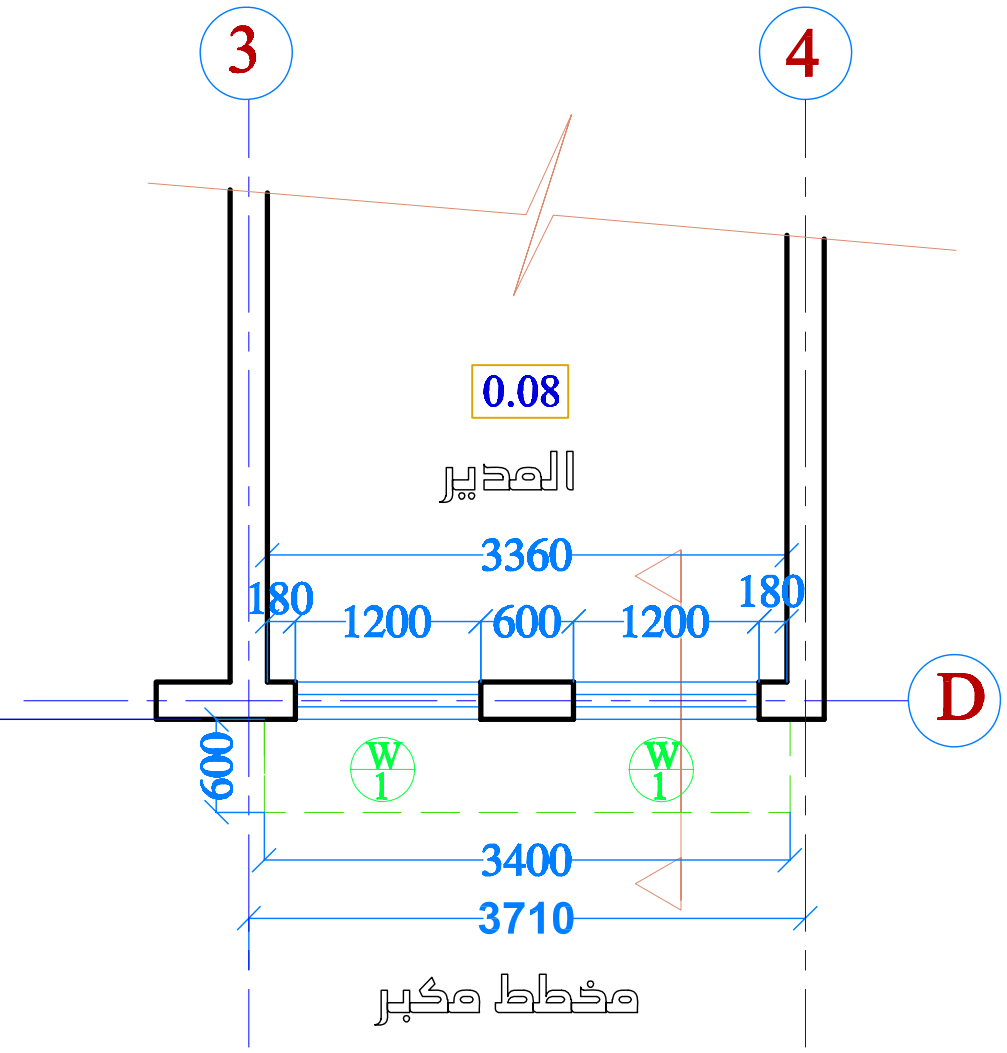
DATE: 3/10/2004

DRAWING: Waleed al - aidalee

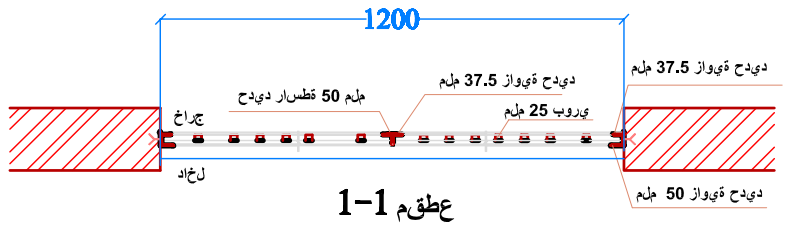
CHECKED:



مكبر واجهة



مخطط مكبر



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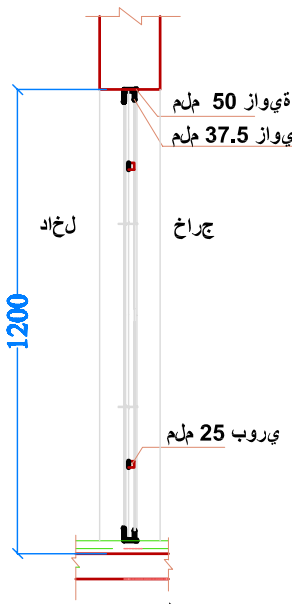

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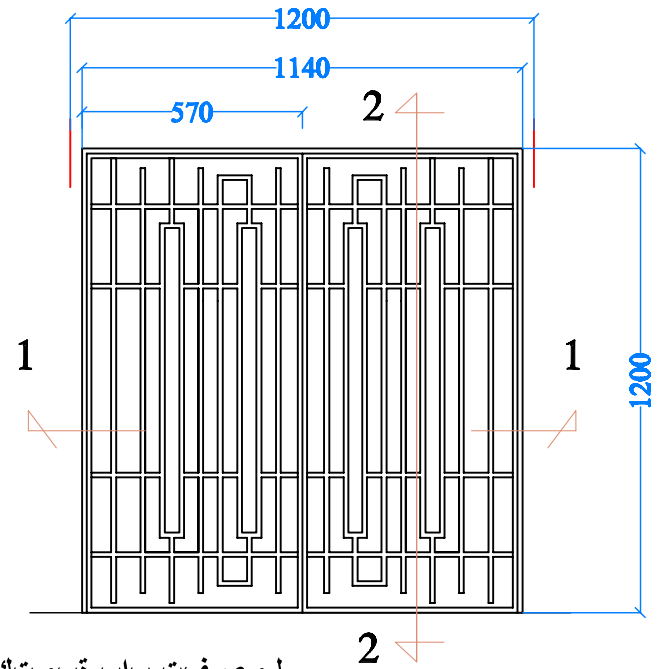
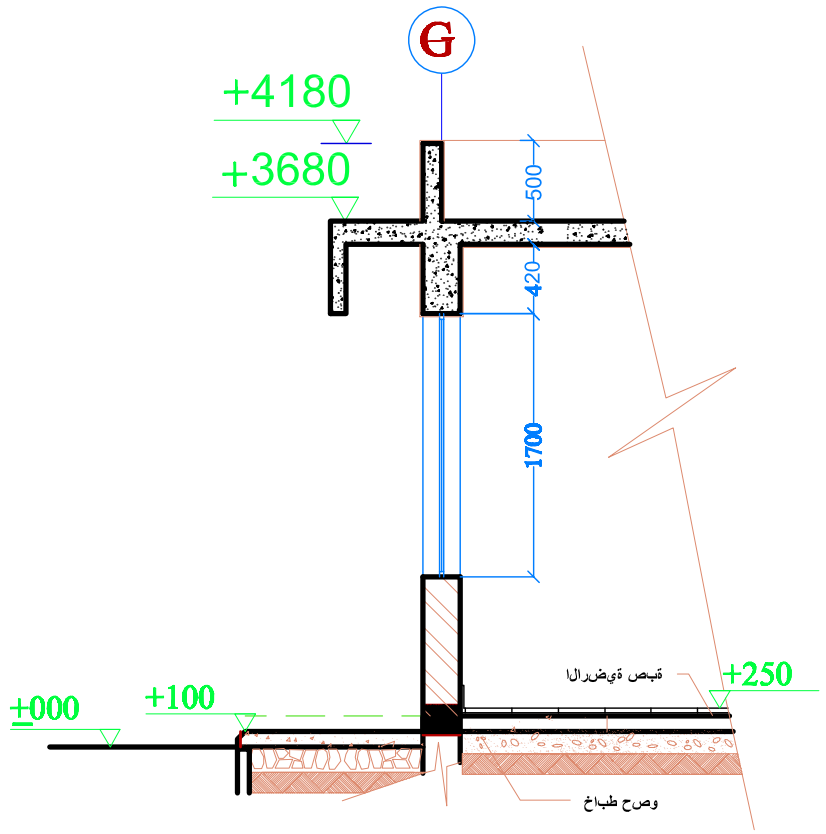


تفصيل باب تكييف
مقياس 1/20



قطع 1 - 1

DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. AL- ABDALEE

Job Title: نموذجية ابتدائية مدرسة
صف 12 سعة

Drawing Title: واجهة جزء مكبر
تفصيل تكييف الباب مكبر

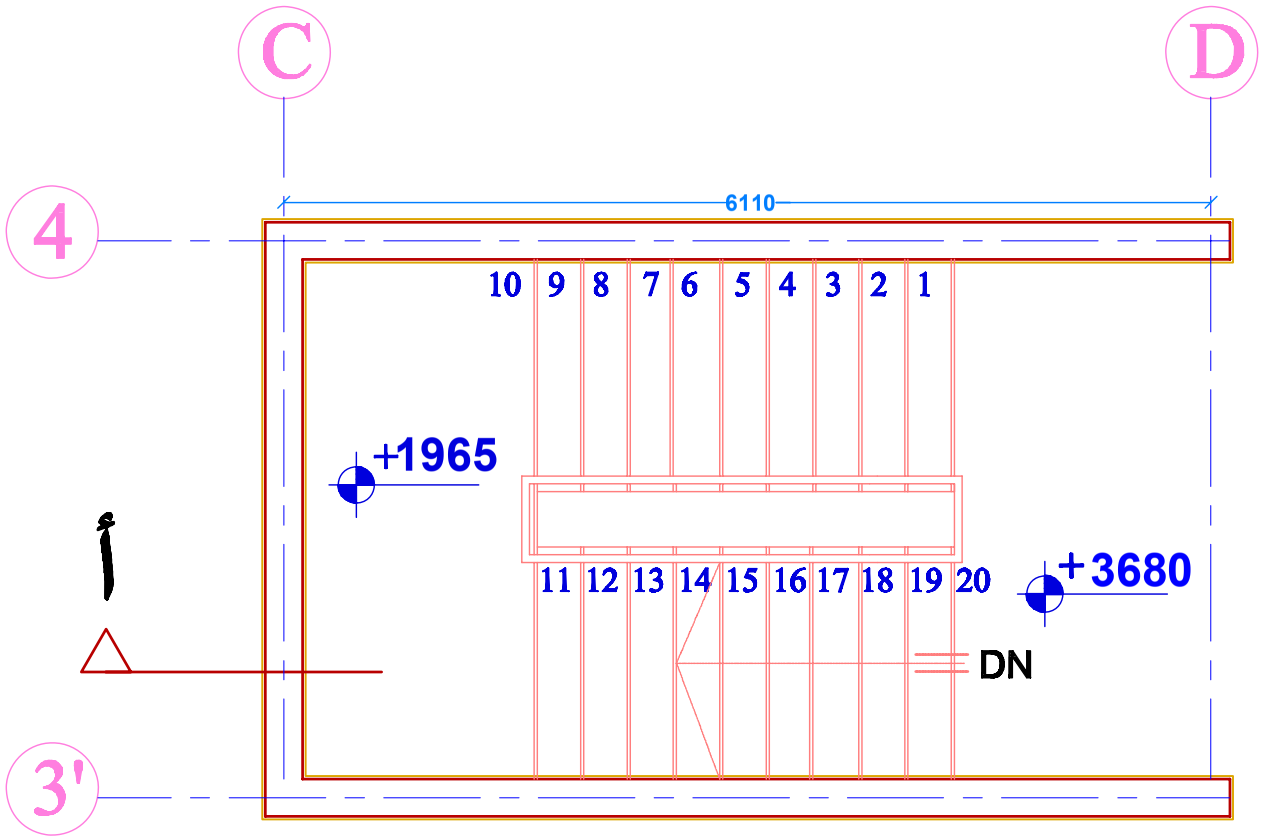
Job No.

CLASS

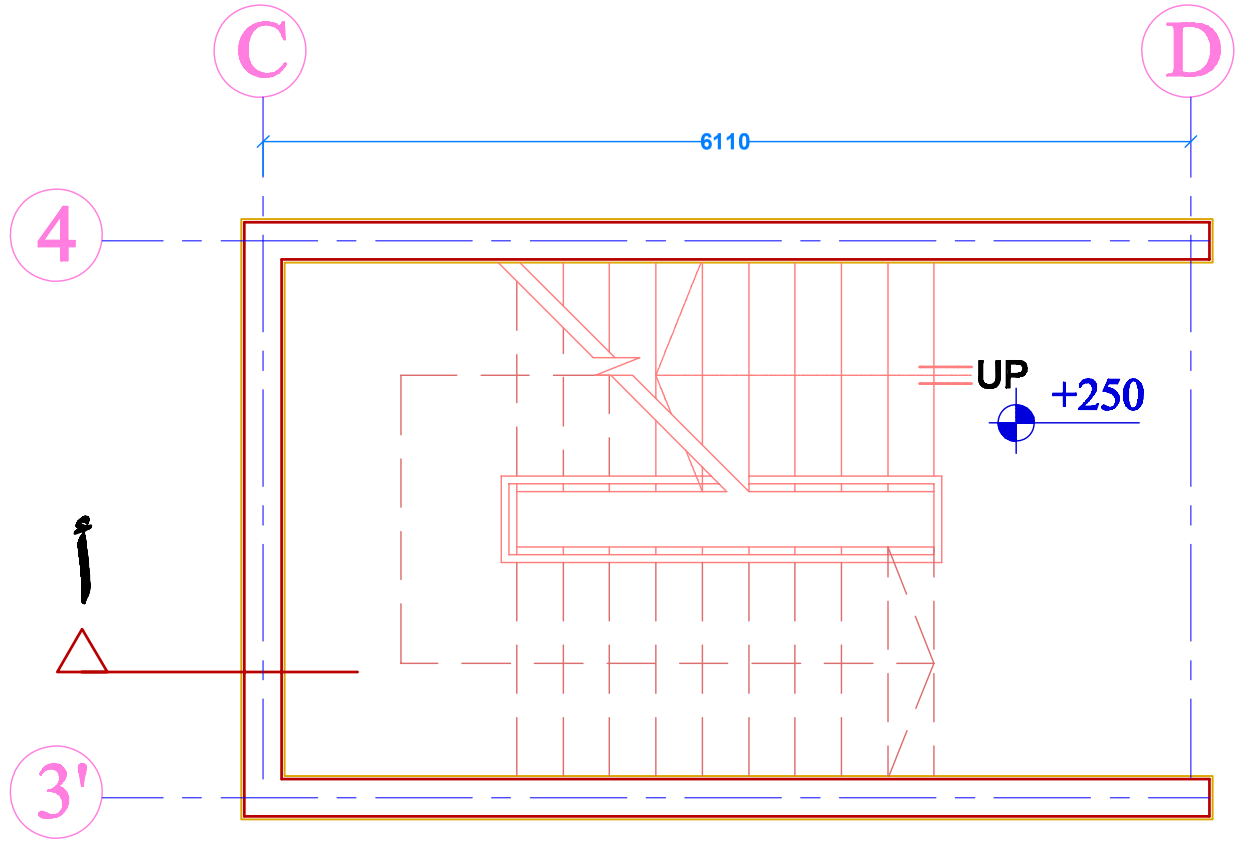
DRS No. AR/12

REVISION SUFFIX

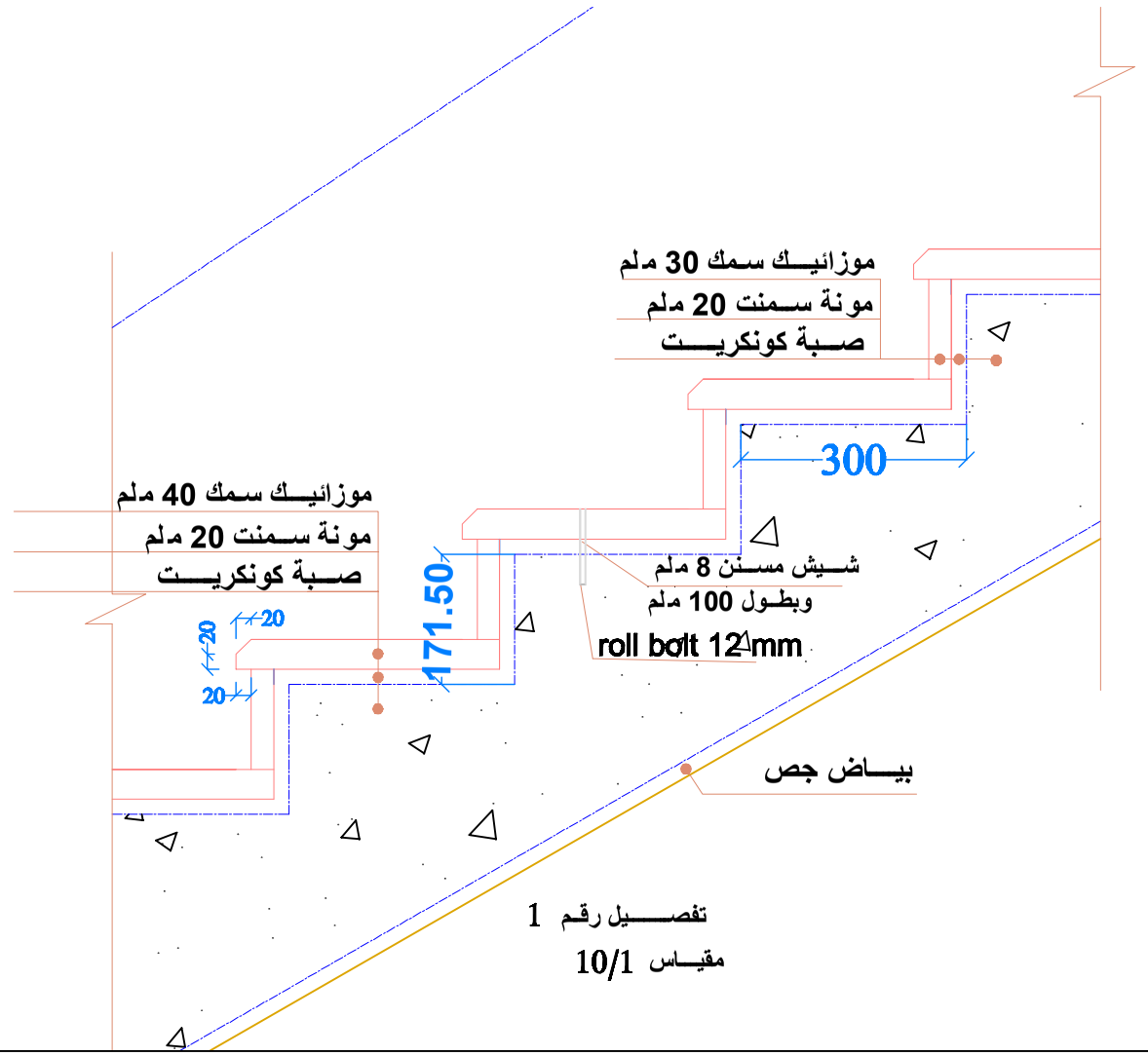
SCALE 1/50-1/20 | DATE 3/10/2004 | DRAWING waleed al - abdalee | CHECKED

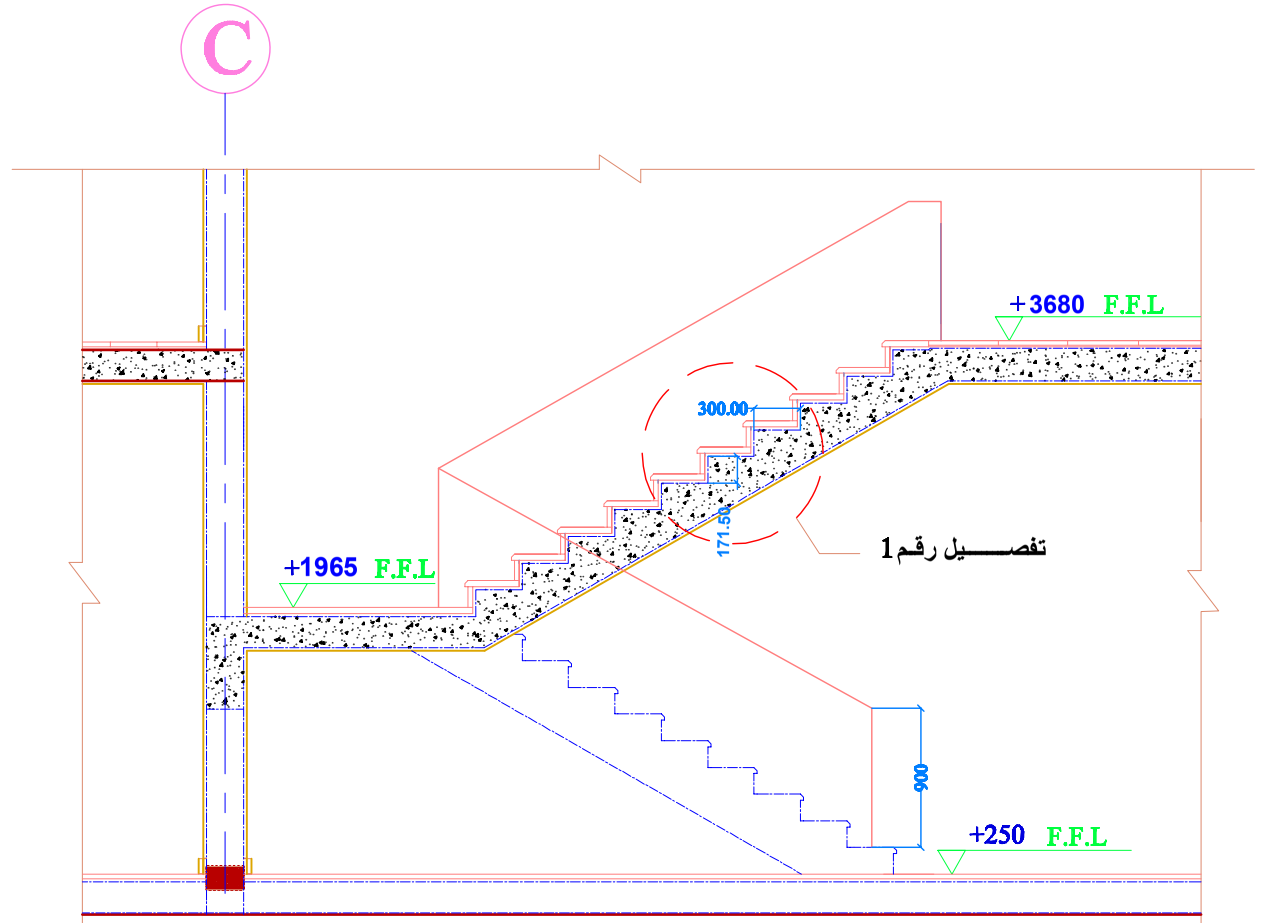


مكـــبر درج الطـــابق الاول



مكـــبر درج الطـــابق الارضـــي





مقطـع أ-أ

DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. AL- ABDALEE

Job Title: مدرسة ابتدائيـــة نموذجيـــة
سـعة 12 صـف

Drawing Title: تفصـــيل الـدرج
تفاصـــيل مكـبرة

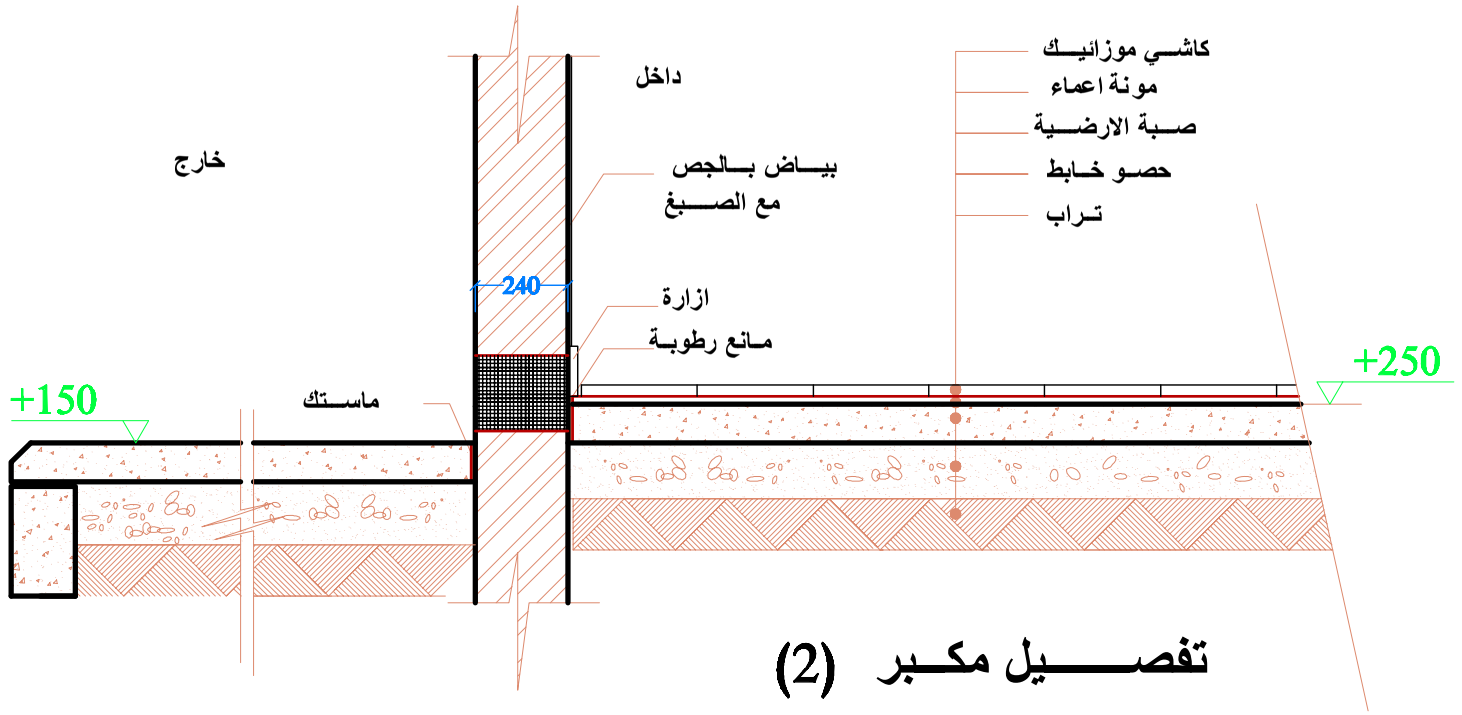
Job No.

DRG No. AR/13

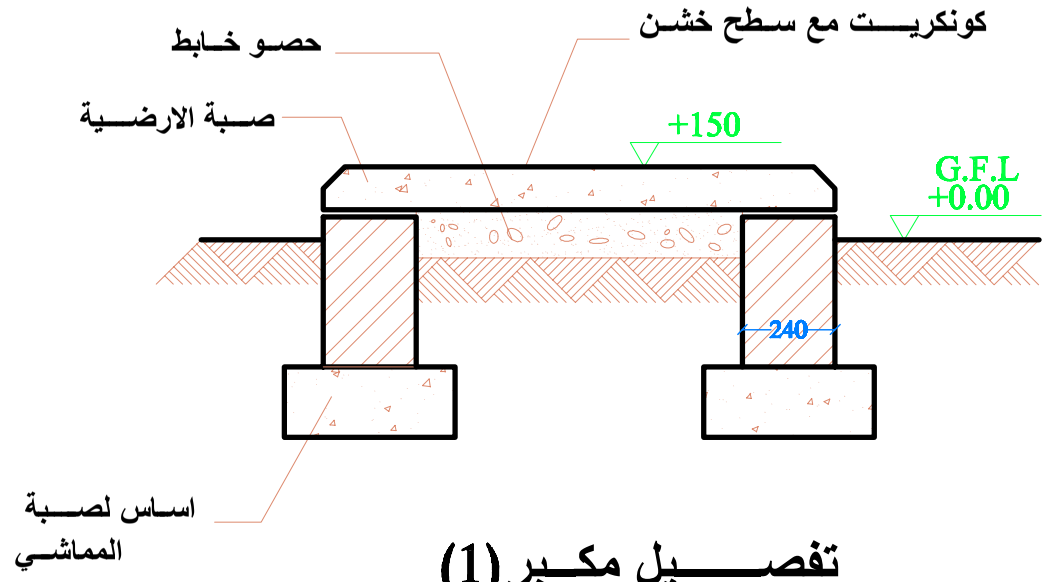
REVISION SUFFIX

CLASS

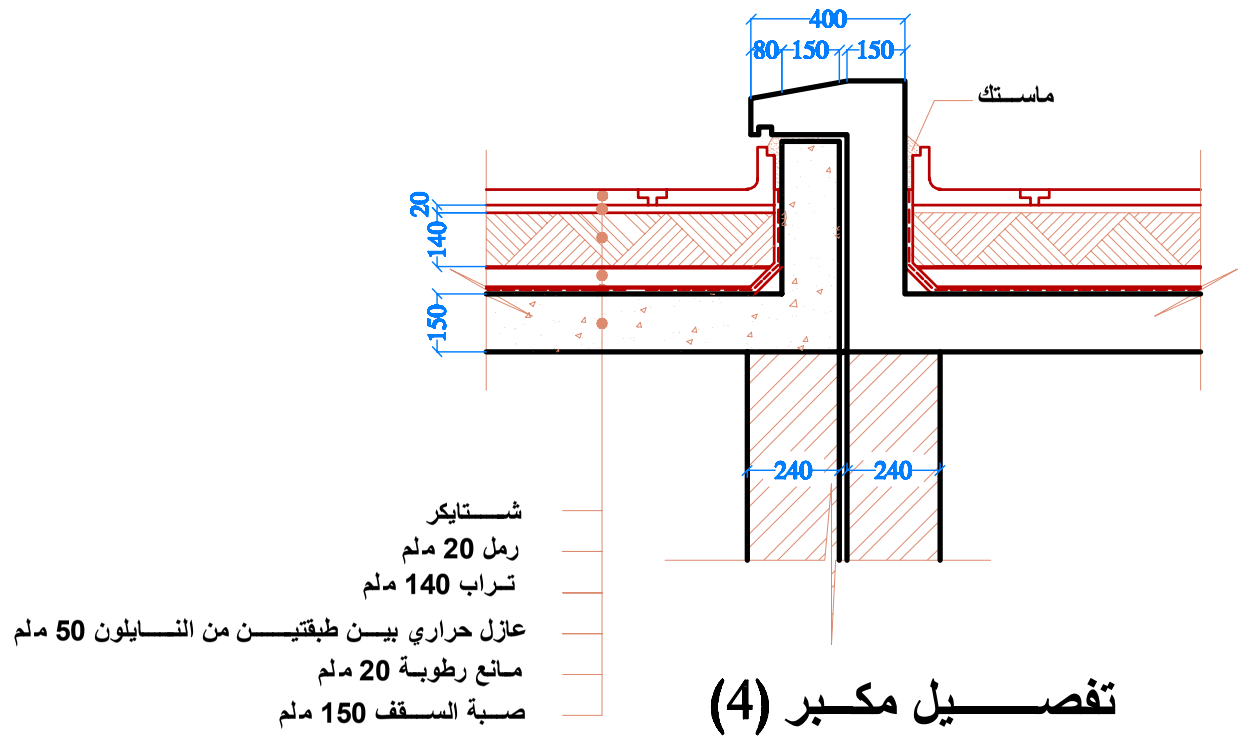
SCALE 1/50-1/10 | DATE 3/10/2004 | DRAWING waleed al - abdalee | CHECKED



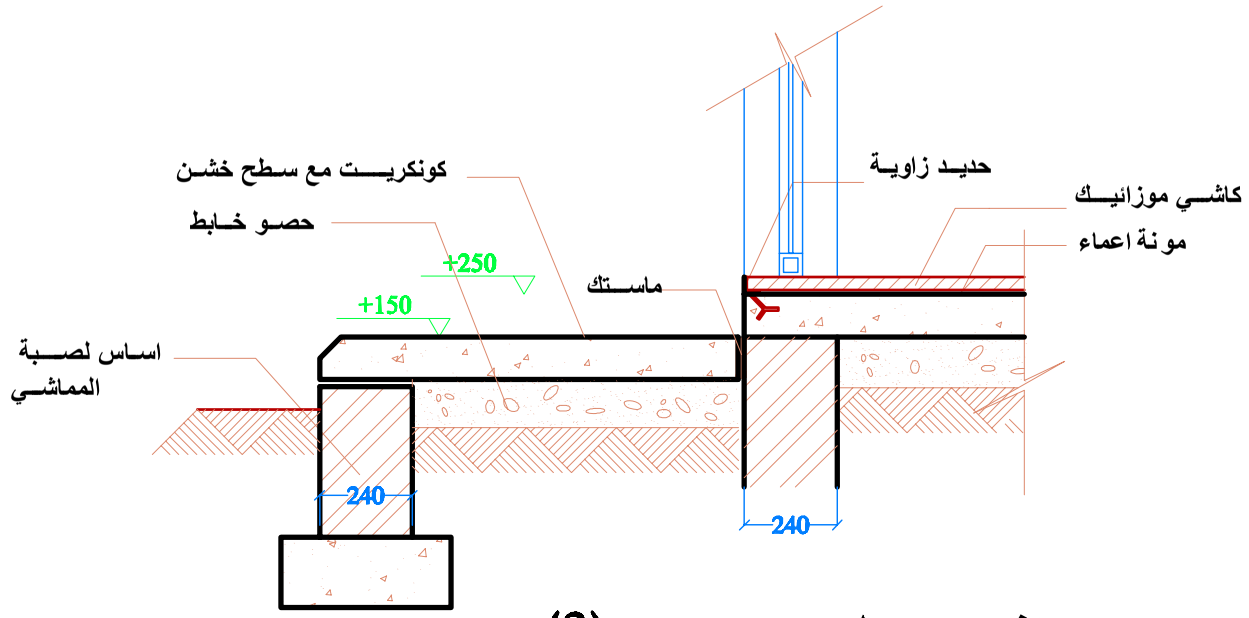
تفصـــيل مكـبر (2)



تفصـــيل مكـبر (1)



تفصـــيل مكـبر (4)



(3) تفصـــيل مكـبر

DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect/Engineer: WALEED K. AL- AIDALEE

Job Title: مدرسة ابتدائيـــة نموذجيـة
سـعة 12 صـف

Drawing Title: تفاصـــيل مكـبرة

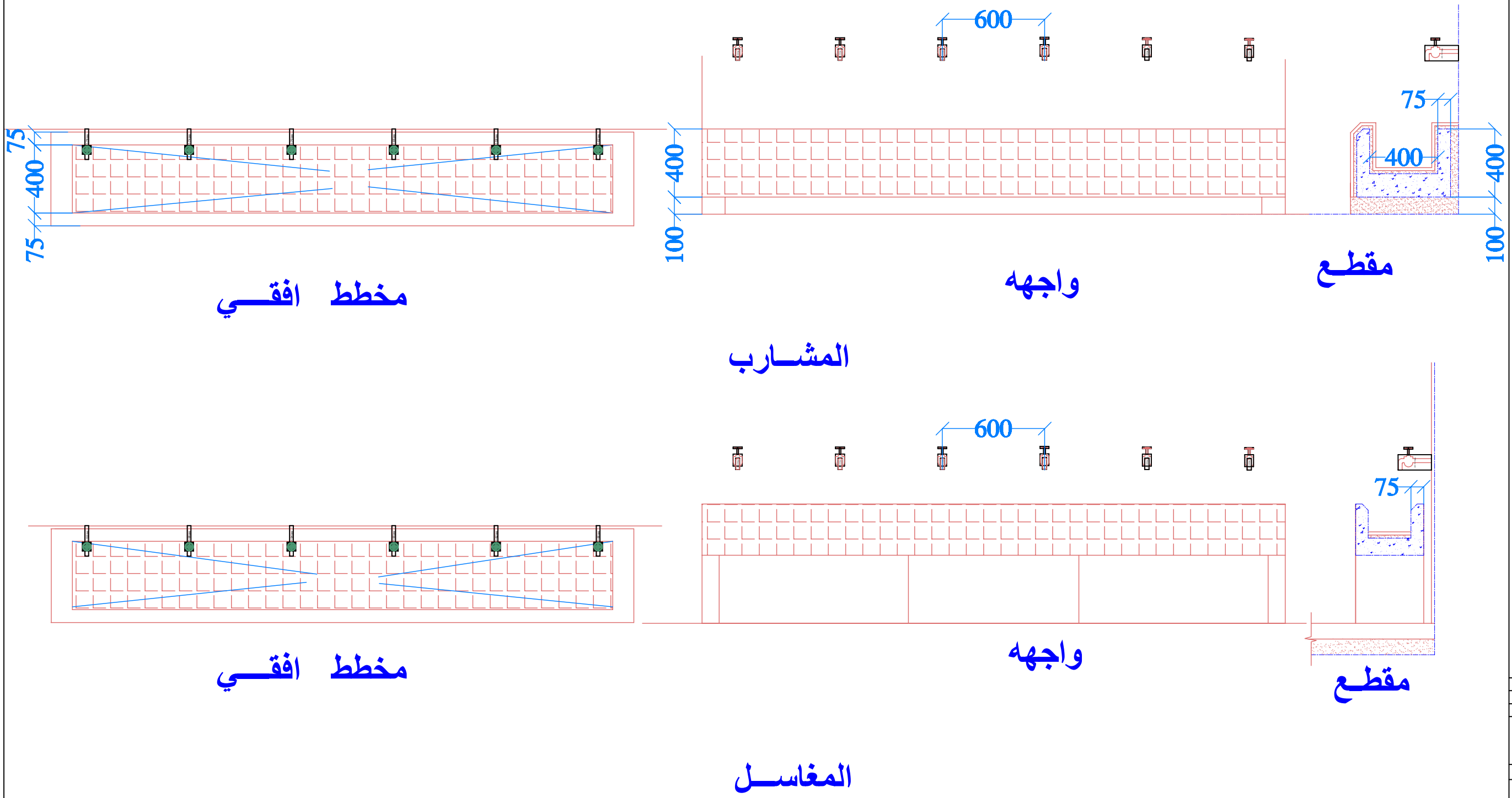
Job No.

DRG No. AR/14

REVISION SUFFIX

C.J/FB

SCALE 1/20 | DATE 3/10/2004 | DRAWING waleed al - abidee | CHECKED



DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer WALEED K. AL- AIDALEE

Job Title
مدرسة ابتدائيـــــة نموذجيـــة
ســعة 12 صـف

Drawing Title
تفاصـــــيل مكـبرة

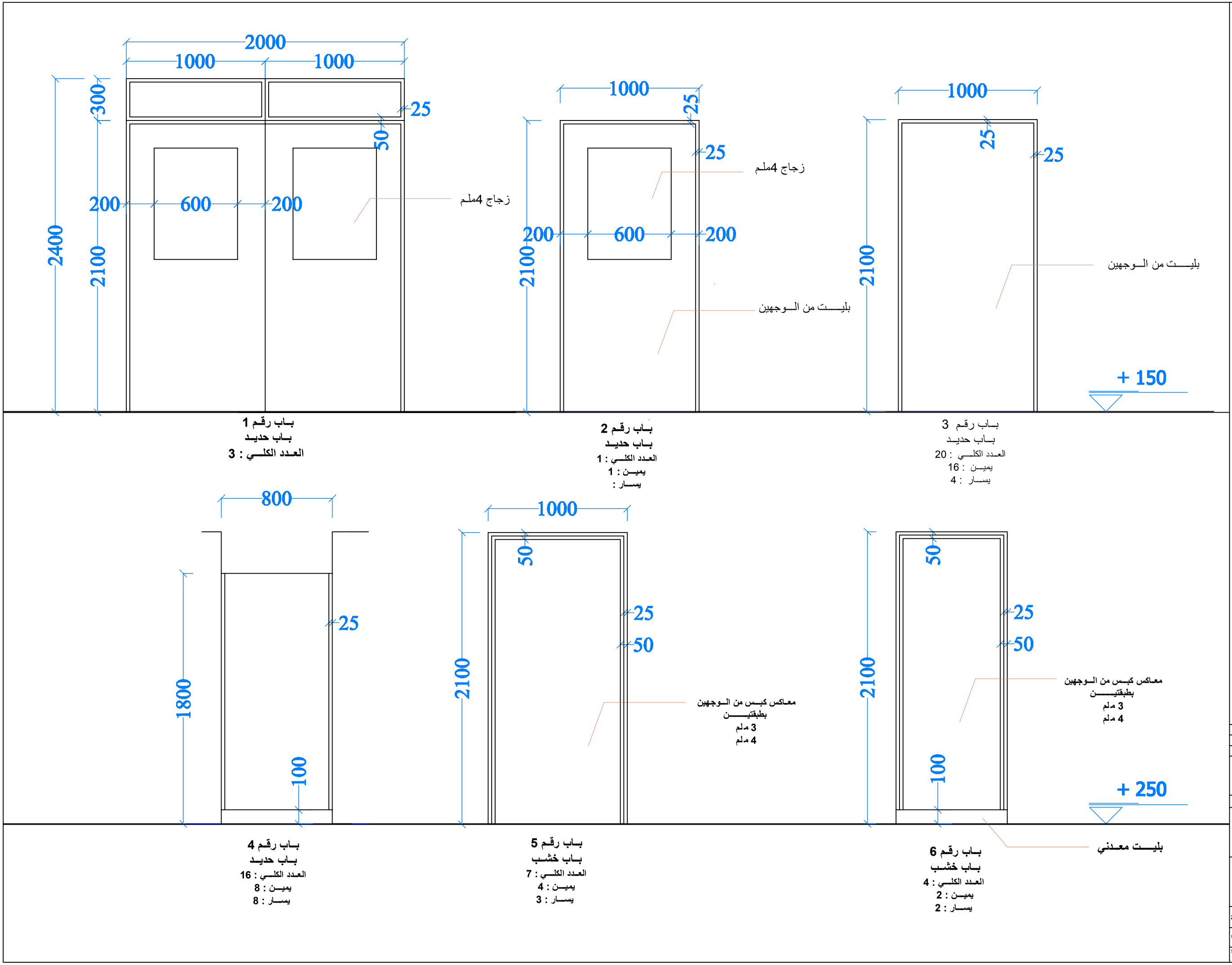
Job No.

DRG No. AR/15

REVISION SUFFIX

C.J.STD

SCALE 1/25 | DATE 3/10/2004 | DRAWING Waleed al - abdalee | CHECKED



DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. AL- AIDALEE

Job Title: مدرسة ابتدائيـــة نموذجيـــة
سـعة 12 صف

Drawing Title: جدول الابـــواب

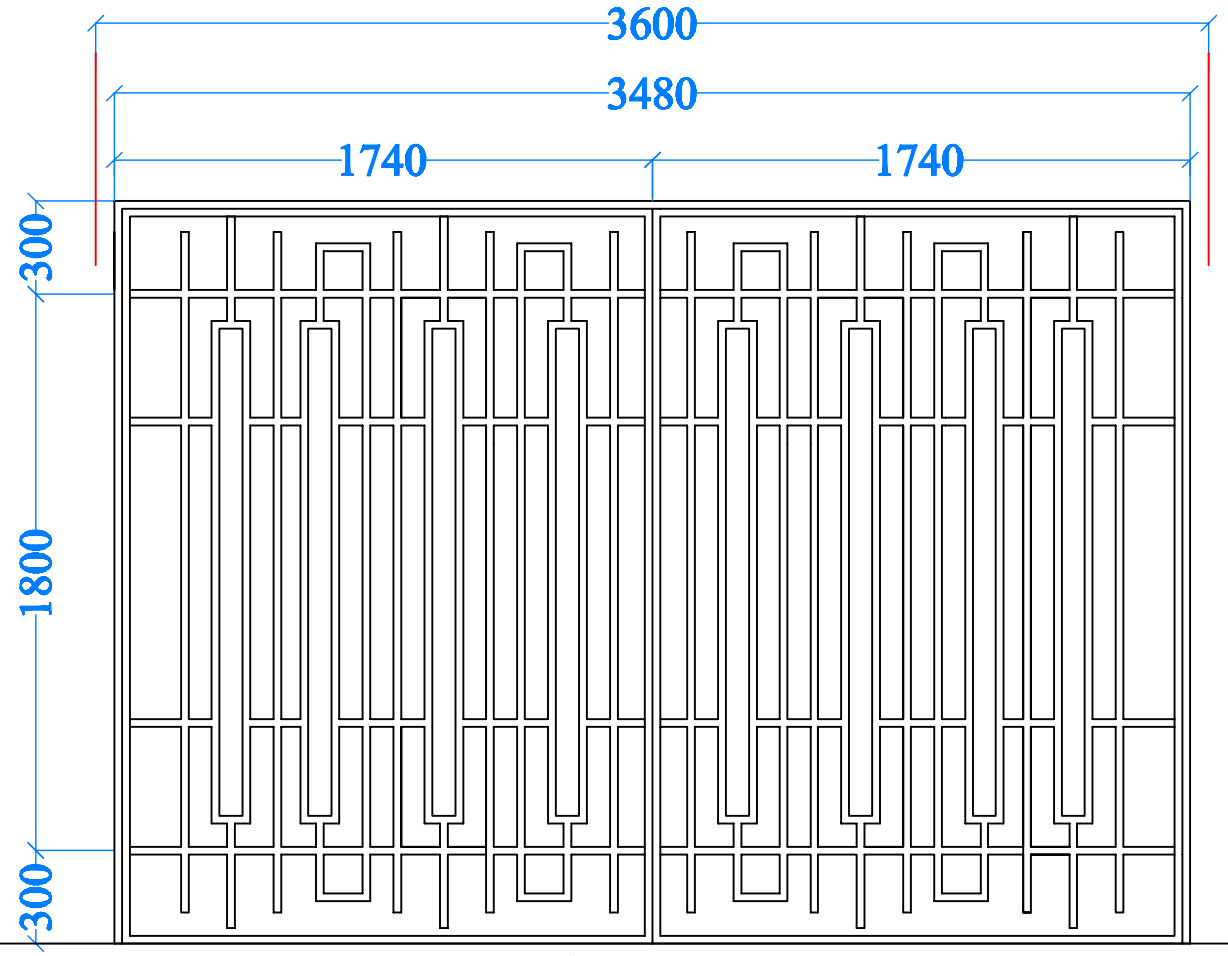
Job No.

C.J/FB

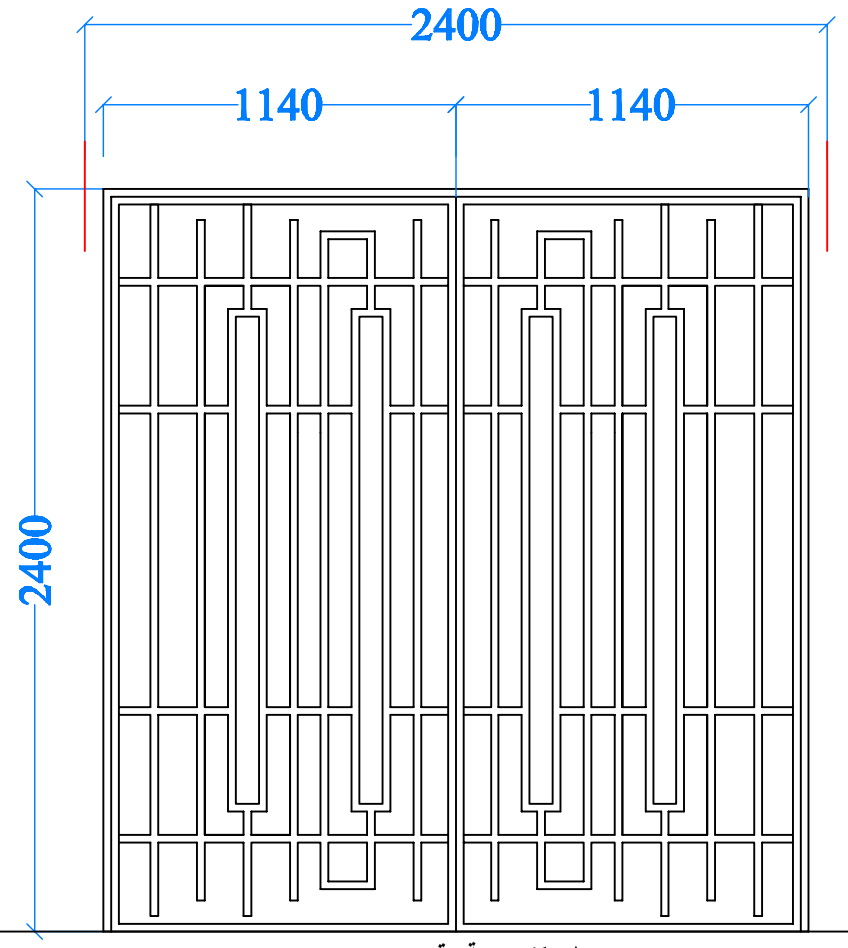
DRG No. AR/16

REVISION SUFFIX

SCALE 1/25 | DATE 3/10/2004 | DRAWING Waleed al - aidalee | CHECKED



بـاب كتيبـــة رقم 1
العـدد 1



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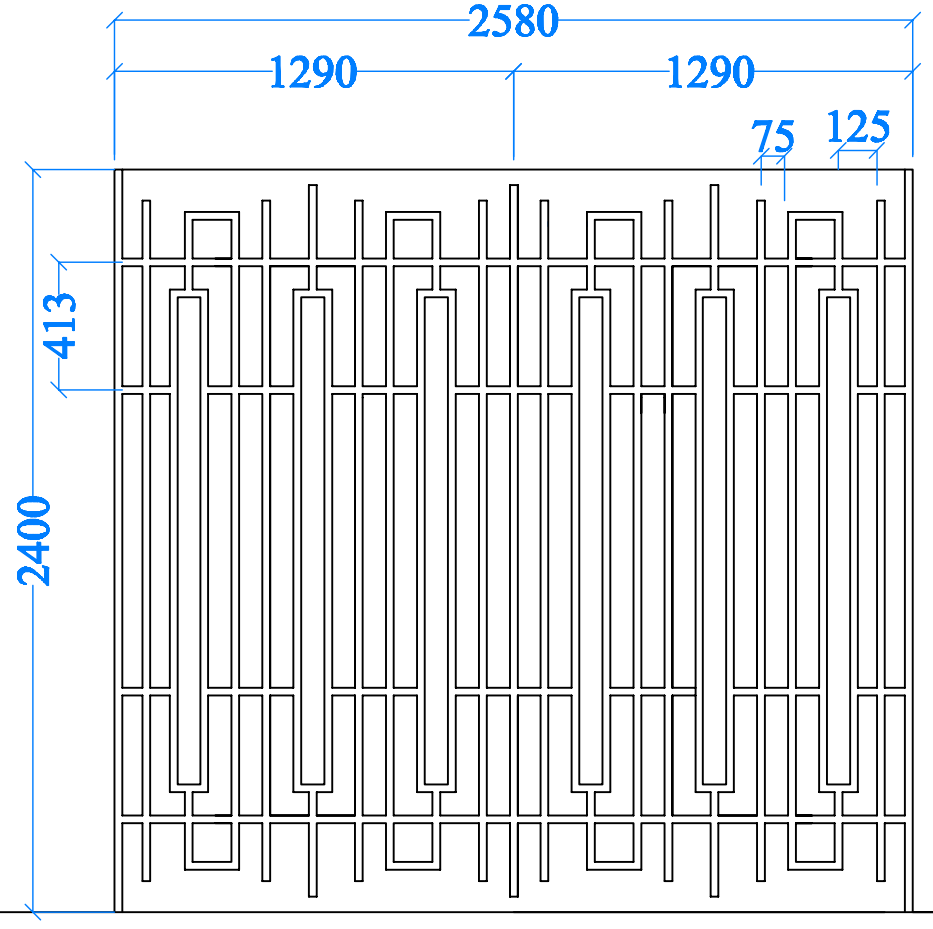
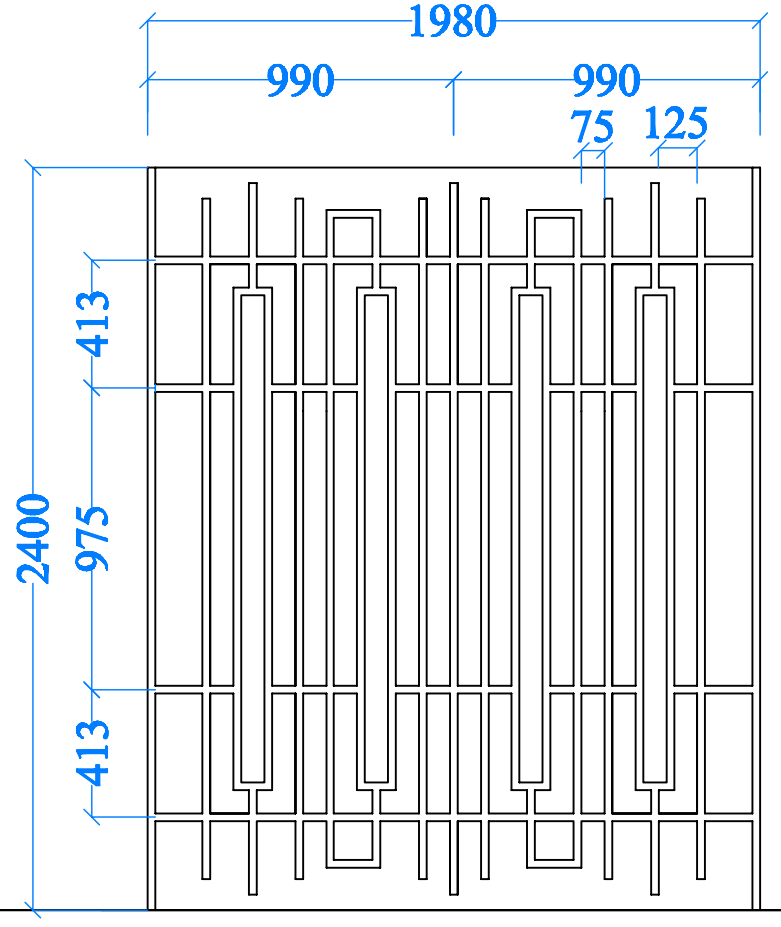
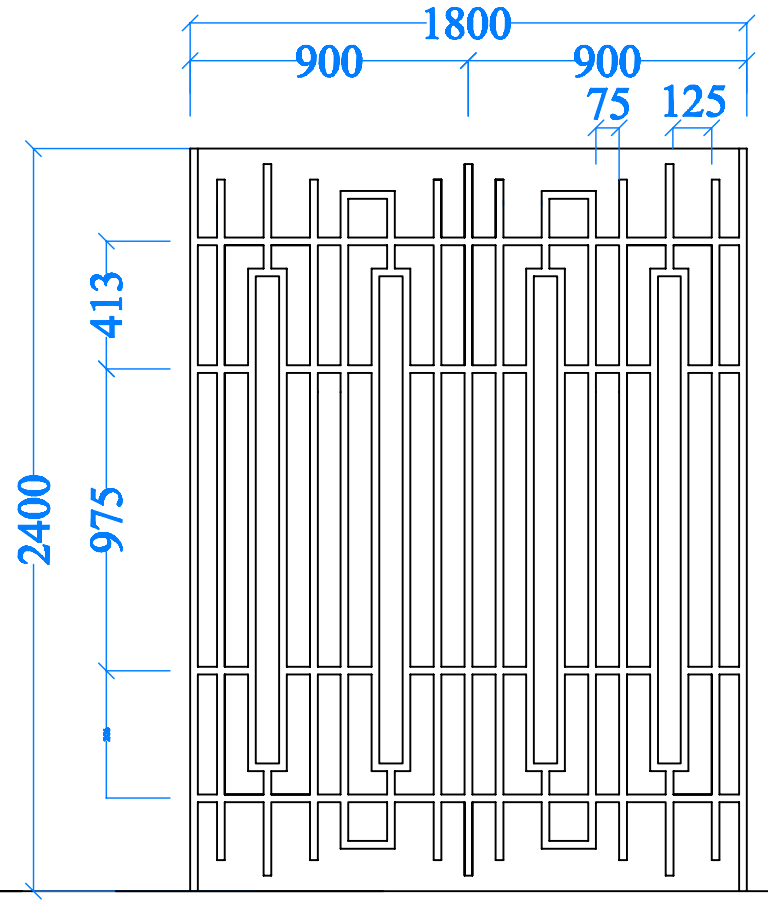
العـدد 2



بـاب كتيبـــة رقم 3
العـدد 4



بـاب كتيبـــة رقم 4
العـدد 4



بـاب كتيبـــة رقم 5
العـدد 4

DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. AL- ABDALEE

Job Title: مدرسة ابتدائيـــة نموذجيـــة سـعة 12 صـف

Drawing Title: جدول الكتائـــب للابـــواب والفتحـــات

Job No.:

DRG No.: AR/17

REVISION SUFFIX:

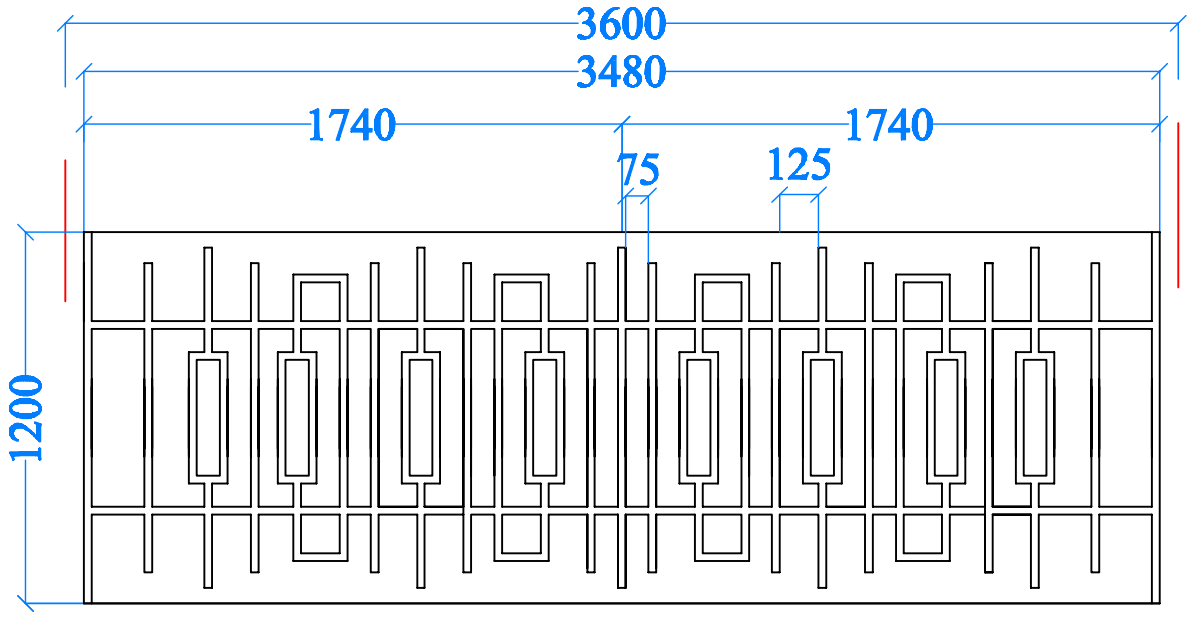
CLASS:

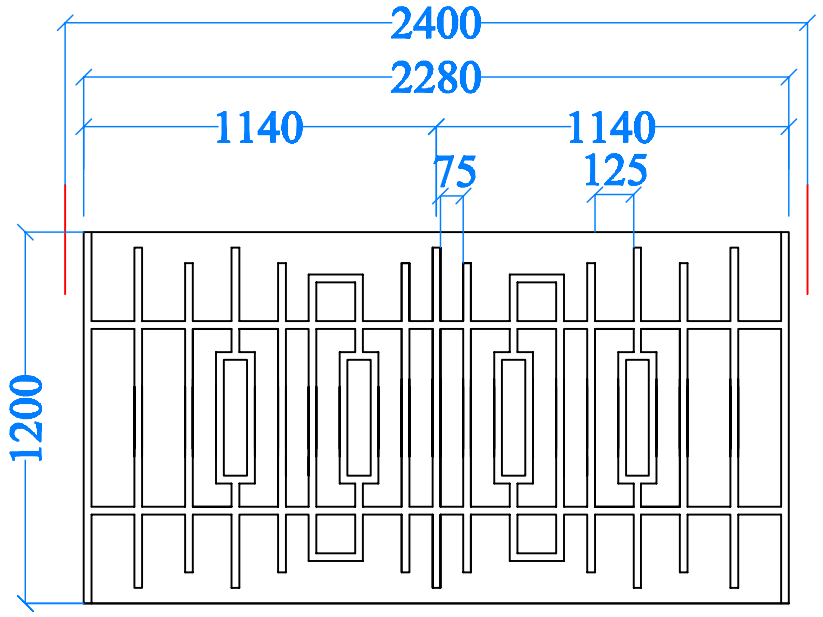
SCALE: 1/25

DATE: 3/10/2004

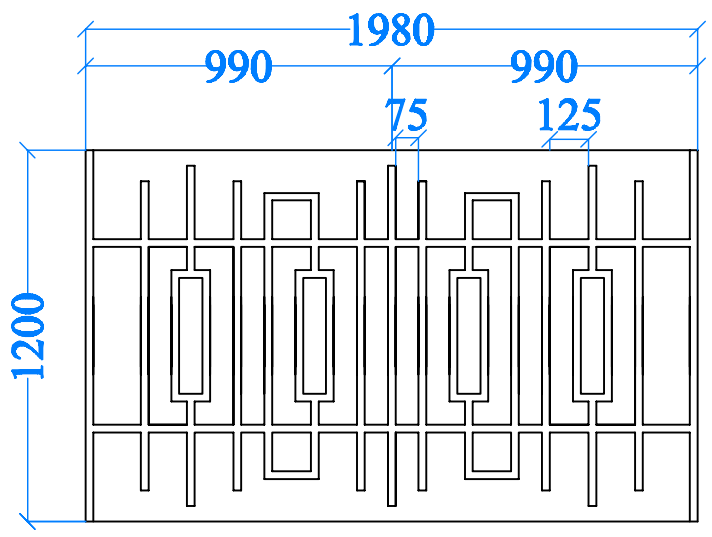
DRAWING: waleed al - abdalee

CHECKED:





كتيبـــــة رقـم 6
العـدد 1



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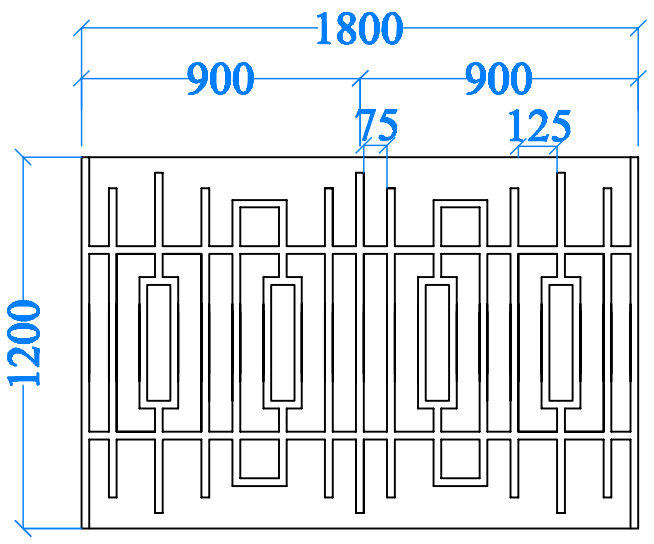
العـدد 2



كتيبـــــة رقـم 8
العـدد 4

كتيبـــــة رقـم 9
العـدد 4

DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. AL- AIDALEE

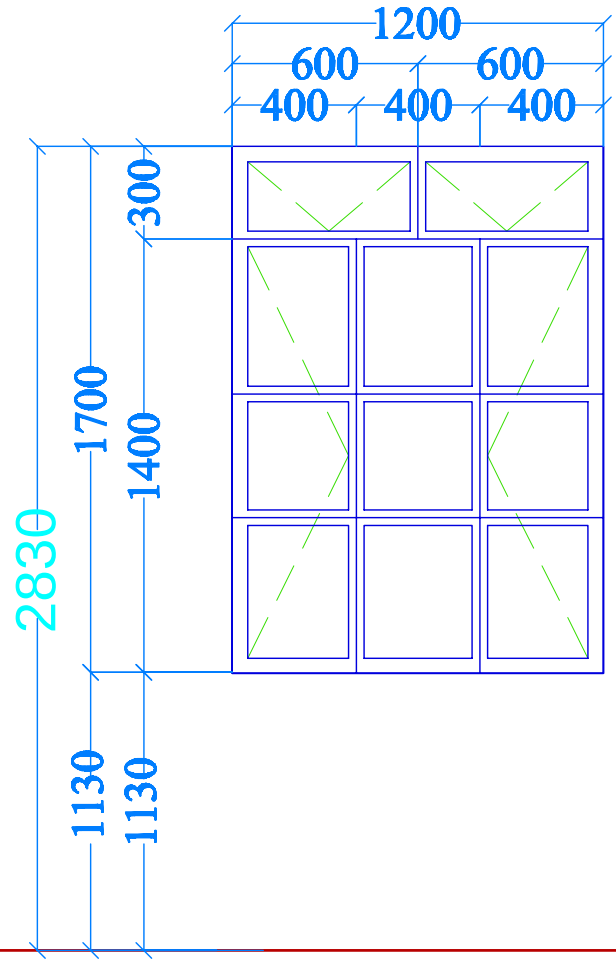
Job Title:
مدرسة ابتدائيـــــة
نموذجيـــة سـعة 12 صـف

Drawing Title:
جدول الكتائـــــب للفتحـــــات

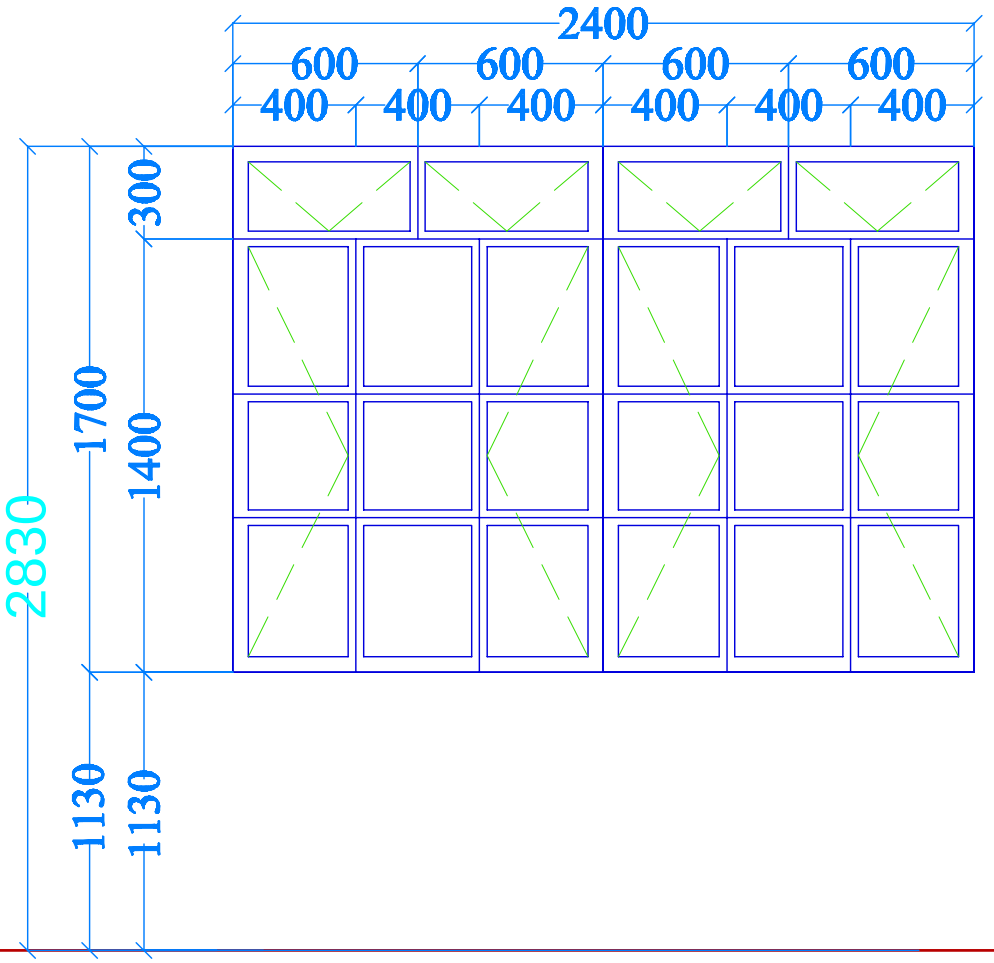
Job No.:
C.J/19

DRG No.: AR/18
REVISION SUFFIX

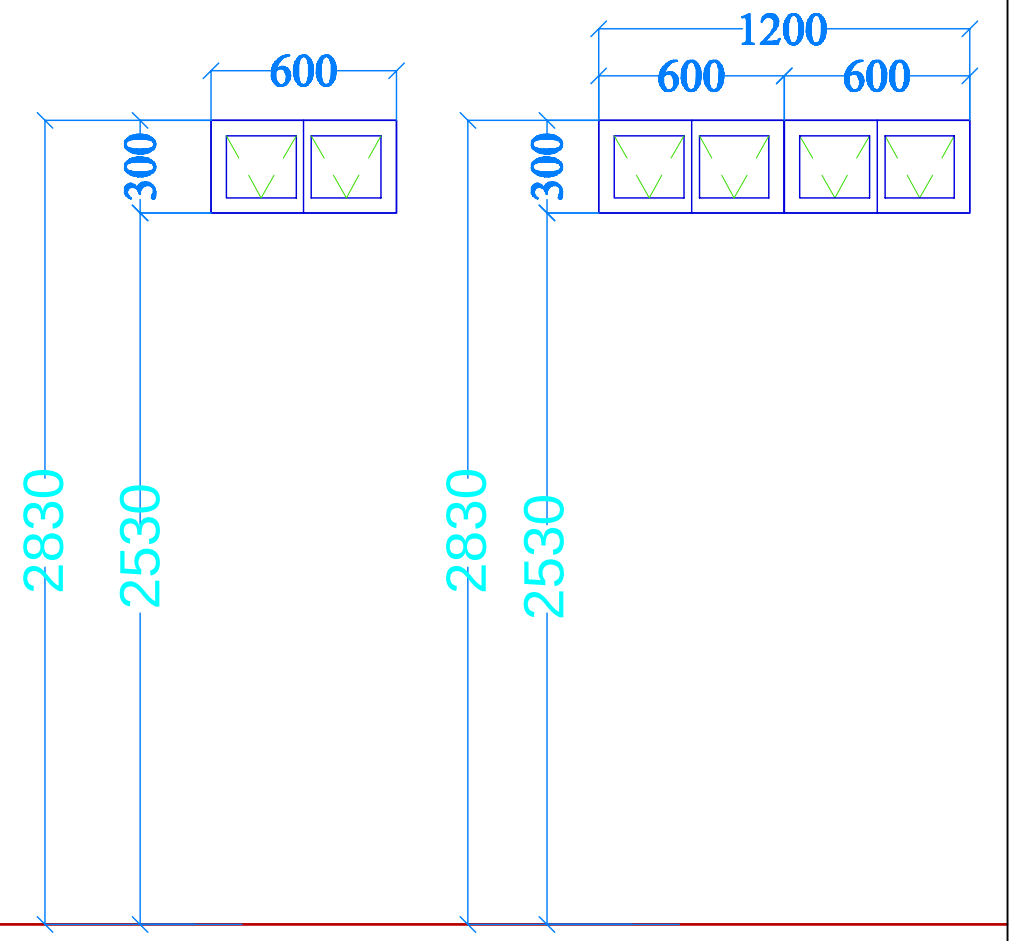
SCALE: 1/25
DATE: 3/10/2004
DRAWING: waleed al - aidalee
CHECKED



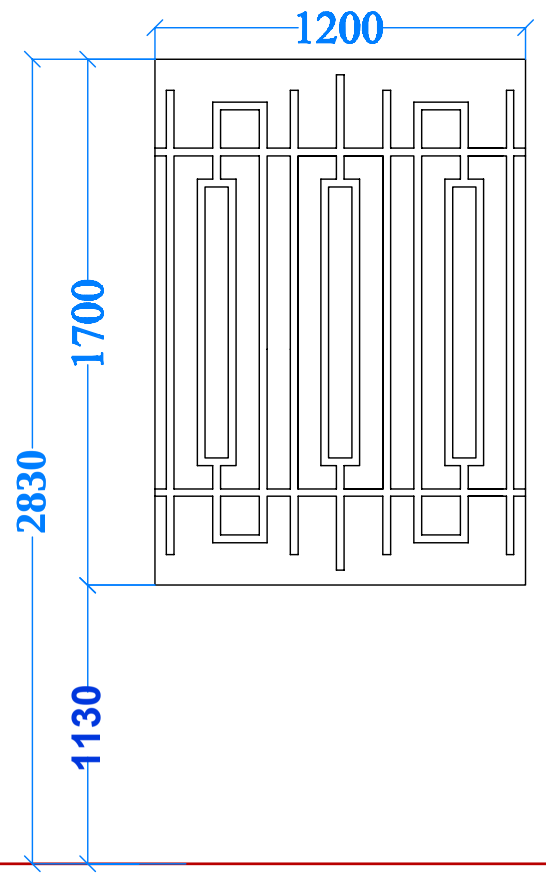
شـــباك رقـم 1
شـــباك حديـد
العـدد 5



شـــباك رقـم 2
شـــباك حديـد
العـدد 33



شـــباك رقـم 3
شـــباك حديـد
العـدد 16



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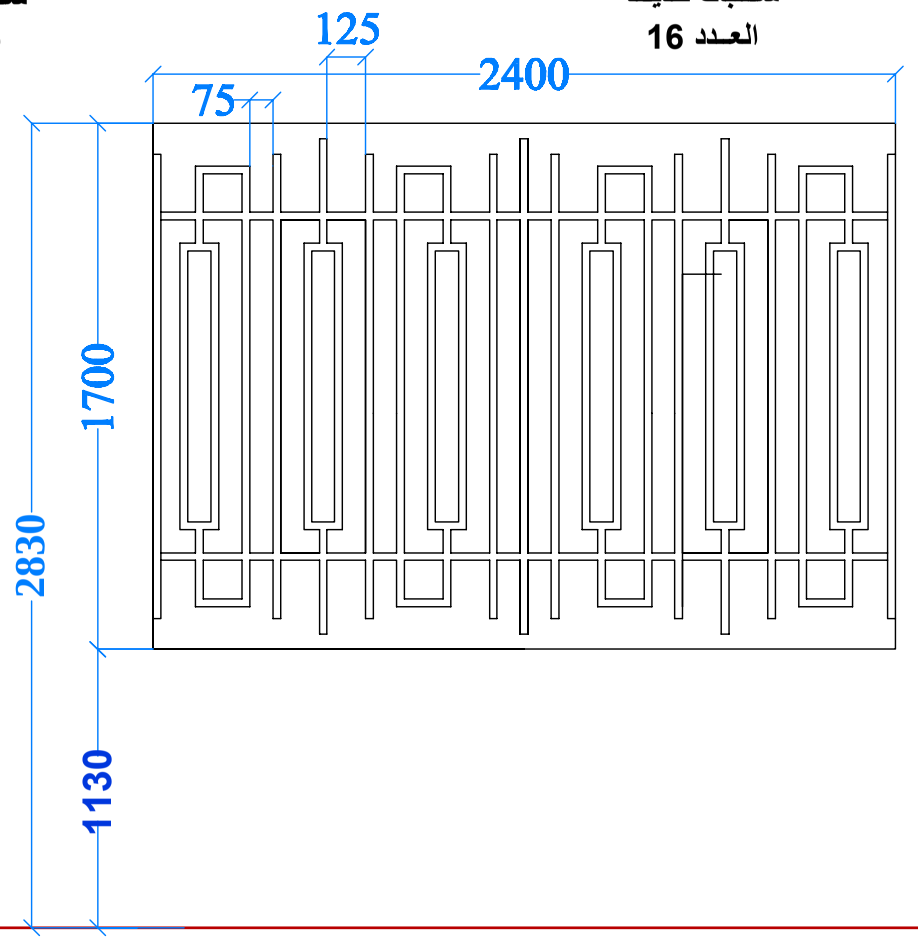
العـدد 5



كتيبـــــة للشـــــباك رقـم 2
العـدد 33

DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. AL- ASDALEE

Job Title:
مدرسة ابتدائيـــــة
نموذجيـــة سـعة 12 صـف

Drawing Title:
جدول الشـــــبابيك والكتائـــب

Job No.:

DRG No.: AR/19

REVISION SUFFIX

C.J.NO

SCALE: 1/25

DATE: 3/10/2004

DRAWING: waleed al - abdalee

CHECKED

رقم الجناح	مادة الانهاءات / اسم الفضاء		أرضيات								أزارة					جدران										سقوف						
			كاشي موزائيك		كونكريت ناعم	كونكريت خشن	بلاطات شتايكر	بلاطات موزائيك جاهزة			سيراميك				كاشي موزائيك	كاشي فرفوري	لبخ سمنت	بياض جص	نثر خشن	نثر ناعم	صبغ	صفل كونكريت	صبغ بنتلايت	صبغ دهني غير لماع		صفل كونكريت	نثر ناعم	نثر خشن	لبخ سمنت	بياض جص	صبغ دهني غير لماع	صبغ بنتلايت
	الطابق الأرضي																															
2	جناح الأدارة والمدخل																															
	غرفة المعاون	0.01			●										●			●					●							●		●
	غرفة المدرسين	0.02			●										●			●					●							●		●
	مخزن وسائل تعليمية	0.03			●										●			●					●							●	●	
	ممر داخلي	0.04			●										●			●					●							●		●
	مرافق صحية نساء	0.05			●										●	●	●						●	●						●		●
	مرافق صحية رجال	0.06			●										●	●	●							●	تلبيس الجدران بالفرفوري لارتفاع 2.1متر الباقي يصبغ بالدويسة								●
	محاسب	0.07			●										●			●					●						●		●	
	غرفة المدير	0.08			●										●			●					●									
	ممر خارجي / مدخل	0.09				●												●					●	●	يصبغ الدمر بصبغ دهني متر 1.5 ارتفاع والباقي يصبغ بالبنتلايت			●		●		●
3	جناح الورش																															
	الورشة	0.01			●												●							●					●		●	
4	الصفوف																															
	الطابق الأرضي																															
	ممر رابط خارجي	0.01			●												●							●					●		●	
	صف دراسي	0.02				●									●			●					●	●						●		●
	صف دراسي	0.03				●									●			●					●	●	نفس الانهاء السابق					○		○
	صف دراسي	0.04				●									●			●					●	●	نفس الانهاء السابق					●		●
	ممر ثانوي	0.05			●													●					●	●	يصبغ الدمر بصبغ دهني الارتفاع 1.5متر والباقي يصبغ بالبنتلايت			●		●		
	غرفة نشاطات	0.06				●									●			●					●	●						●		●
	فضاء تجمع	0.07			●												●						●	●					●		●	
	فضاء الدرج	0.08				●											●						●						○		●	
	ممر ثانوي	0.09			●													●					●	●					○		●	
	صف دراسي	0.10				●									●			●					●	●	يصبغ الصف بصبغ دهني الارتفاع 1.5متر والباقي يصبغ بالبنتلايت			●		●		●
	صف دراسي	0.11				●									●			●					●	●	نفس الانهاء السابق					○		●
	صف دراسي	0.12				●									●			●					●	●	نفس الانهاء السابق					●		●
	الطابق الأول																															
	ممر رابط خارجي	1.01			●												●							○					●		●	
	صف دراسي	1.02				●									●			●					●	●	يصبغ الصف بصبغ دهني الارتفاع 1.5متر والباقي يصبغ بالبنتلايت			●		●		●
	صف دراسي	1.03				●									●			●					●	●	نفس الانهاء السابق					○		○
	صف دراسي	1.04				●									●			●					●	●	نفس الانهاء السابق					●		●
	ممر ثانوي	1.05			●													●					●	●	يصبغ الدمر بصبغ دهني الارتفاع 1.5متر والباقي يصبغ بالبنتلايت			●		●		
	غرفة نشاطات	1.06				●									●			●					●	●						●		●

DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. Al- AIDALEE

Job Title: مدرسة ابتدائيـــة نموذجيـة سـعة 12 صـف

Drawing Title: جدول الإنهاءات

Job No.:

C.J/FB

DRG No.: AR/20

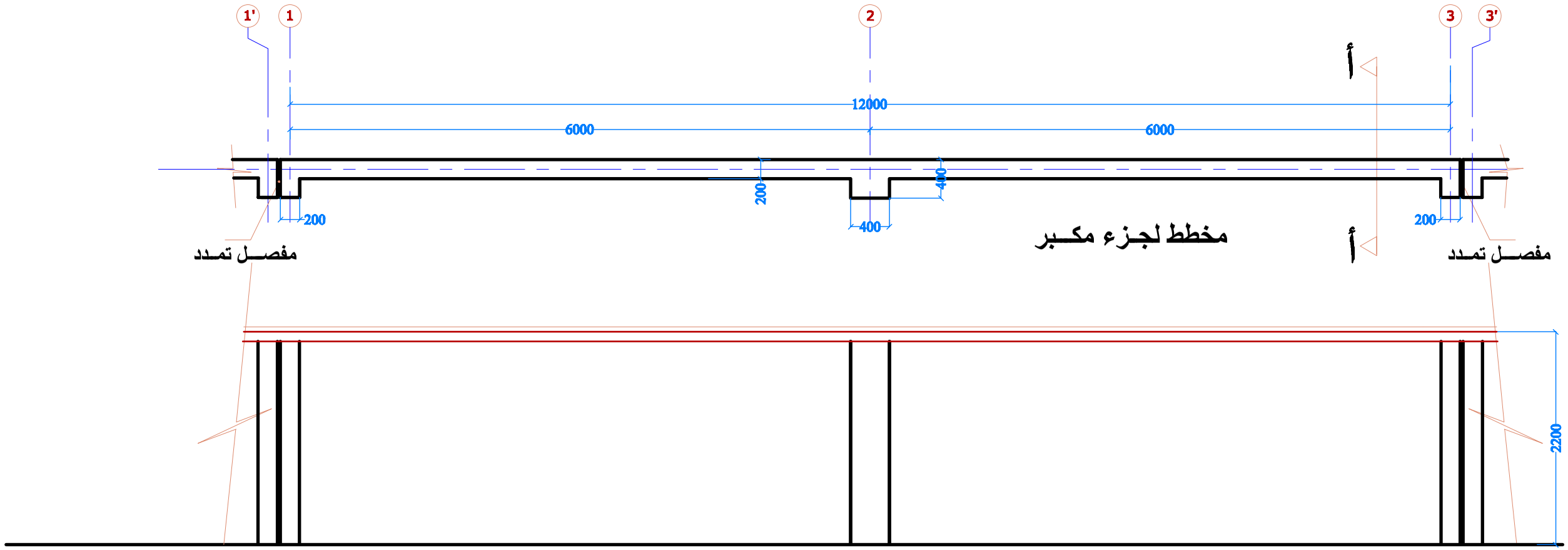
REVISION SUFFIX

SCALE: 1/20

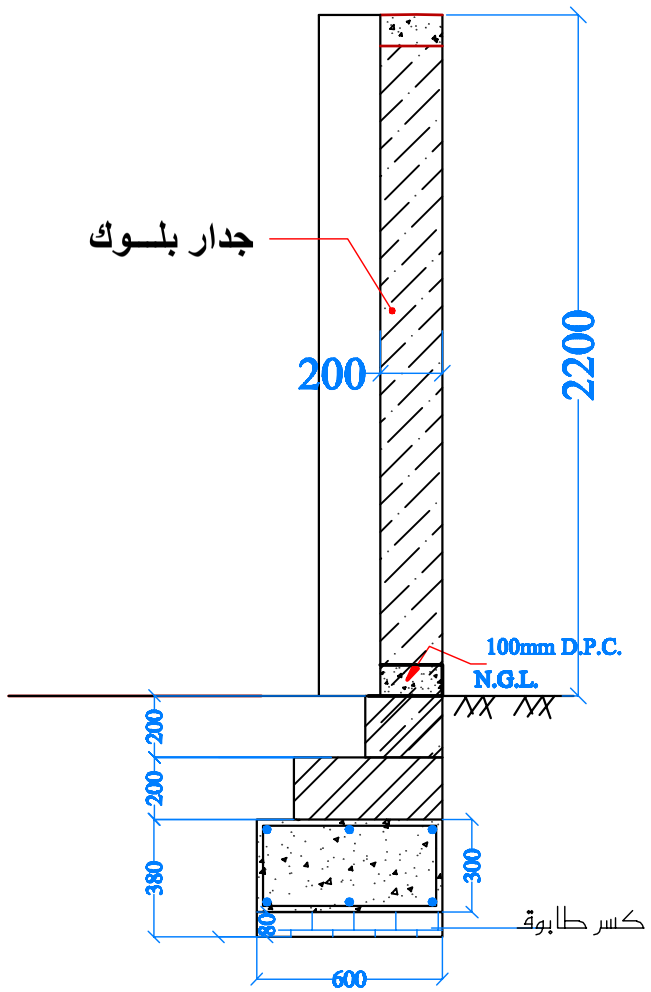
DATE: 3/10/2004

DRAWING: waleed al - abidee

CHECKED



واجهة



مقطـع أ-أ

	DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. AL- AIDALEE

Job Title:
مدرسة ابتدائيـــــة
نموذجيـــة سـعة 12 صـف

Drawing Title:
تفصـــــيل مكــبر للســـياج الخـارجي

Job No.:

C.J/PP:

DRG No.: AR/22

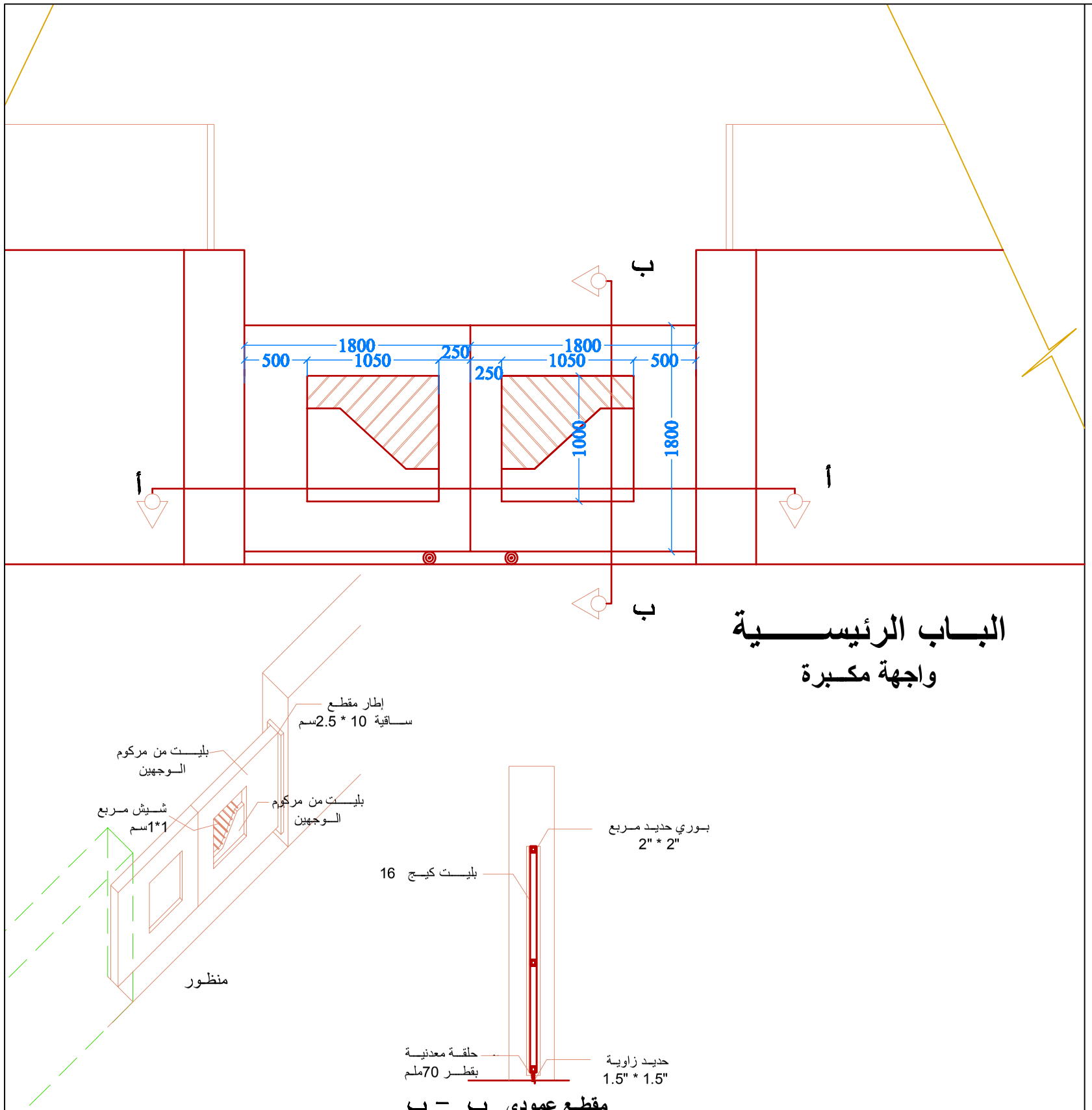
REVISION SUFFIX:

SCALE: 1/50-1/25

DATE: 3/10/2004

DRAWING: waleed al - abidee

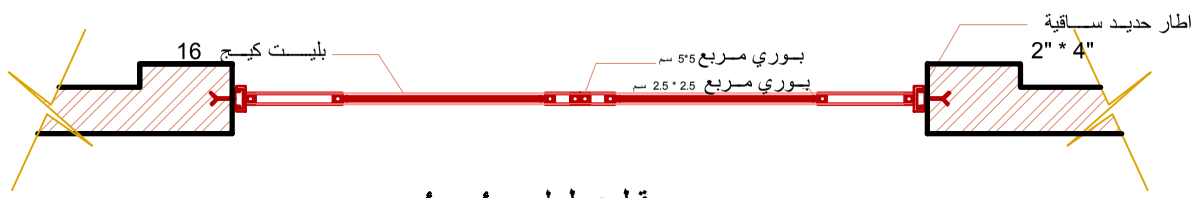
CHECKED:



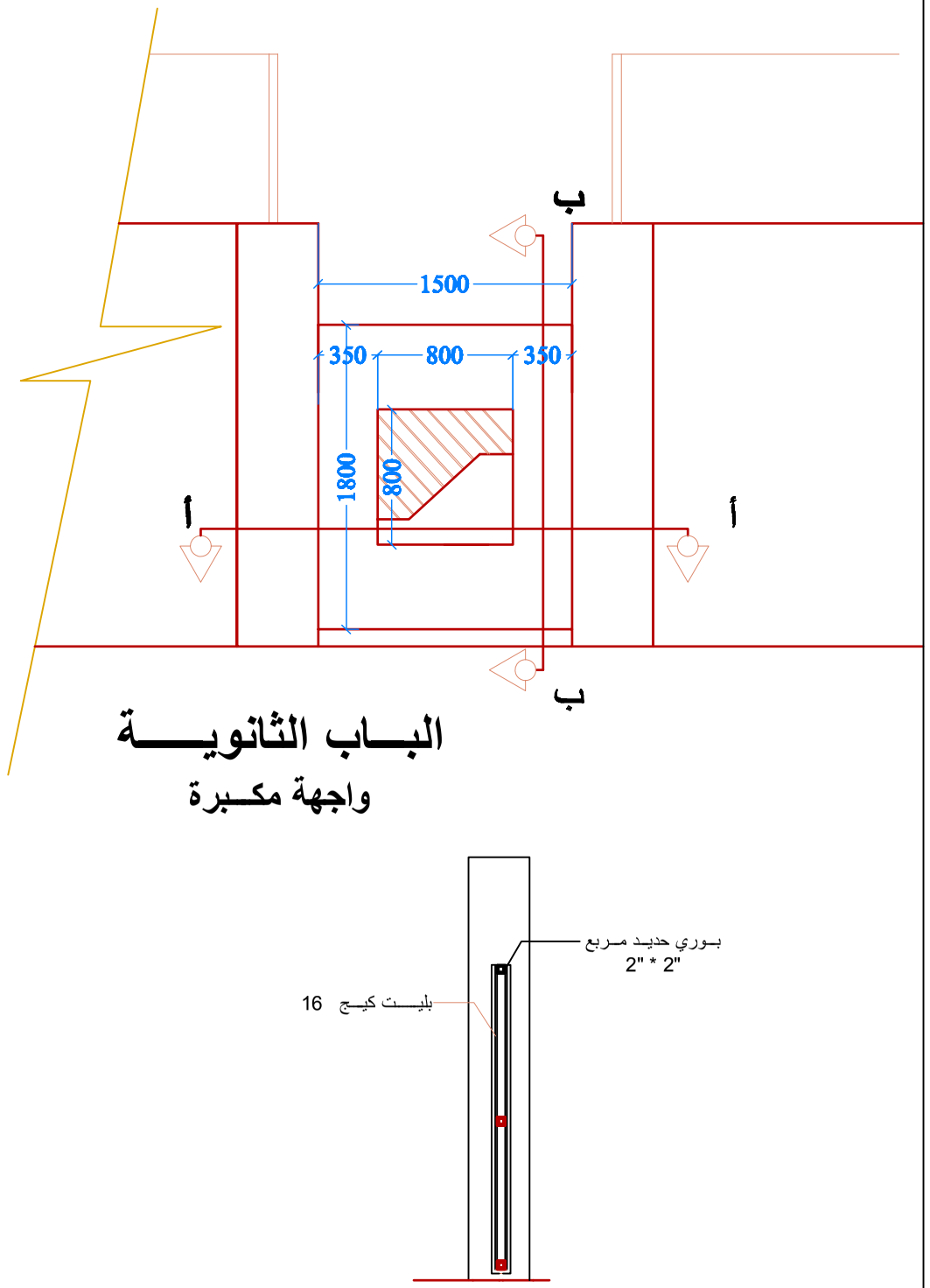
البــاب الرئيســـــية

واجهة مكــبرة

مقطــع عمودي ب – ب



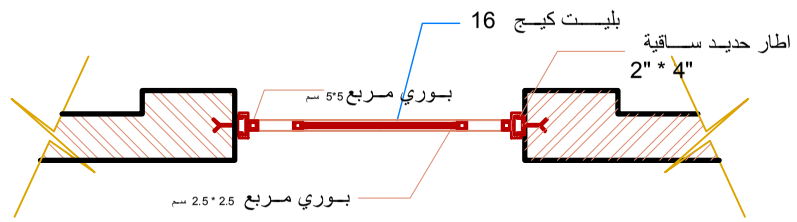
مقطــع طولــي أ –أ



البــاب الثانويـــــة

واجهة مكــبرة

مقطــع عمودي ب – ب



مقطــع طولــي أ –أ

DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. AL- ABDALEE

Job Title: مدرسة ابتدائيـــــة نموذجيــة ســعة 12 صف

Drawing Title: تفاصـــــيل مكــبرة
أبــواب الســياج الخــارجي

Job No.

CL/SFB

DRG No. AR/23

REVISION SUFFIX

SCALE 1/40 | DATE 3/10/2004 | DRAWING waleed al - abdalee | CHECKED

REINFORCED CONCRETE

1.1 THE COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS (FC) SHALL NOT BE LESS THAN 21N/sq mm (3000psi) COMPRESSIVE STRENGTH SHALL BE DETERMINED BY TESTS OF STANDARD 6x 12 inch CYLINDER. (EQUIVALENT TO 25 N/sqmm CUB)

1.2 SULPHATE RESISTIN CEMENT (TYPE-5)SHALL BE USED IN ALL CONCRETE WORKS IN CONTACT WITH EARTH OR BELOW D. P. C. LEVEL

1.3 REINFORCING STELL SHALL CONFORM TO ASTM A615, A616 OR A617,ALL BARS SHALL BE GRADE 60 FY=410 Mpa=60000psi

1.4 PLACING OF REINFORCEMENT SHALL BE ACCORDING TO ACI 315-74
DETAILING MANUAL

1.5 MINIMUM COVER OVER BARS

1.5.1 SLABS	25mm
1.5.2 BEAMS &GIRDERS	40mm
1.5.3 COLUMNS	40mm
1.5.4 WALLS INTERIOR	25mm
1.5.5 EXTERIOR FACES OF WALLS	40mm

1.6 MINIMUM BAR SPASING

1.6.1 IN GENERAL CLEAR DISTANCE BETWEEN PARALLEL BARS SHALL BE NOT LESS THAN BAR DIAMETER OR 25mm

1.6.2 CLEAR DISTANCE BETWEEN LAYERS OF BARS TO BE NOT LESS THAN 25mm AND THE UPPER TO BE DIRECTLY OVER THE LOWER BARS

1.6.3 IN COLUMNS CLEAR SPASING TO BE 1.5 BAR DIAMETEROR 40mm

1.7 CONSTRACTION JOINTS SHALL BE LOCATED AT MIDDLE OF SLABS

1.8 MINIMUM LAP LENGTH UNLESS NOTED ON DRAWINGS SHALL BE AS FOLLOWS

1.8.1 FOR BAR DIM(mm)	10	12	16	18	20	22	25
LAP LENGTH(mm)							
IN COLUMN	400	500	600	650	700	800	900
ELSE WHERE	400	600	700	800	900	1000	2000

1.8.2 LAP OF(SLAB AND BEAM) OF
TOP BARS AT MID SPAN
BOTTOM BARS AT SUPPORTS

1.9 VERTICAL REINFORCEMENT IN COLOMNS

1.9.1 WHERE LONGITUDINAL BARS ARE OFFSET AT A SPLICE THE SLOPE OF THE INCLINED PORTION SHALL NOT EXCEED (1:6) (HORIZONTAL:VERTICAL)

1.9.2 WHERE COLUMN FACES ARE OFSHET 75mm OR MORE SPLICES OF VERTICAL BARS ADJACENT TO THE OFFSET FACES SHALL BE MADE BY SEPARATE DOWELS OVER LAPPED AS SPECIFIED ABOVE

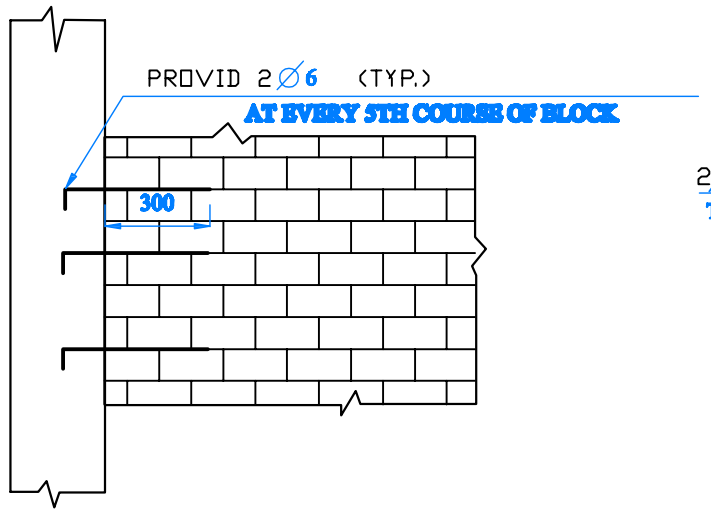
1.9.3 IN TIED COLUMNS THE AMOUNT OF REINFORCEMENT SPLICED BY LAPPING SHALL NOT EXCEDED A RATIO OF 50 % OF TOTAL REINFORCEMENT AT ANY 120mm LENGTH OF COLUMN

1.9.4 CHANGING OF REINFORCEMENT BETWEEN FLOORS WHERE SUCH SITUATION OCCURS THE REINFORCEMENT IN THE COLUMN BELOW WHERE NEED TO BE STOPPED OFF SHALL BE CUT OFF AT DISTANCE 75mm BELOW FLOOR LEVEL

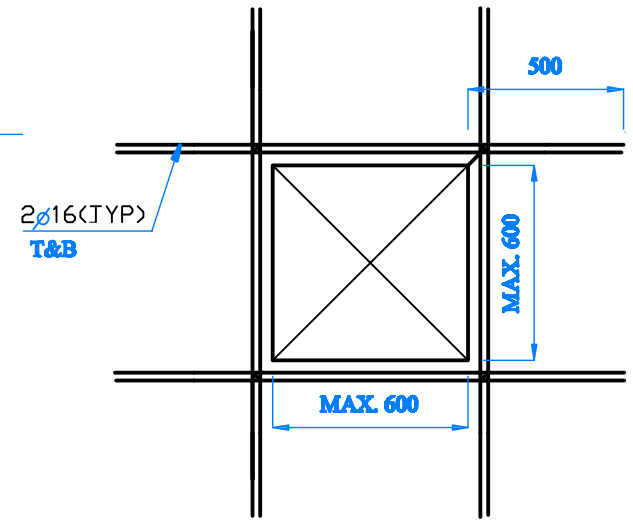
1.9.5 WHERE LONGITUDINAL BARS OFFSET PROVIDE 4 TIES SPACED AT 100mm THESE TIES SHALL BE PLACED BEFORE THE POINT OF BEND.

1.10.1 BEARING CAPACITY =15 TON/M^2
ACCORDING TO N.C.C.L REPORT NO 1/1/60.

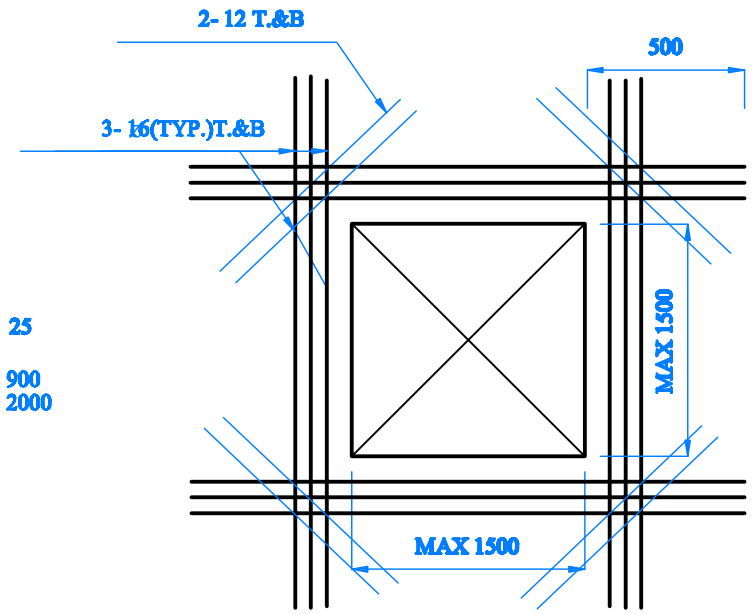
1.10.2 SWELLING PRESSURE =8.3 TON/M^2.



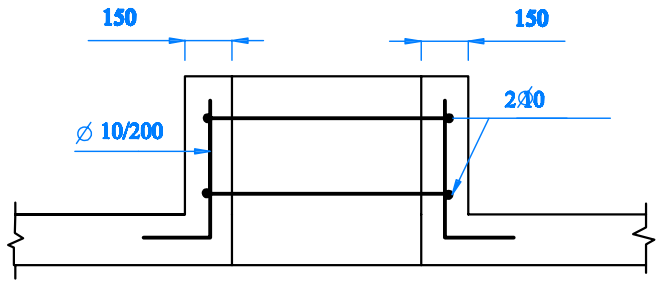
CONECTION BETWEEN BLOCK WALL AND R.C. COLUMN



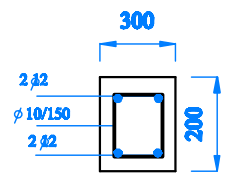
TYPICAL REINF. AROUND ALL OPENNINGS UP TO 600



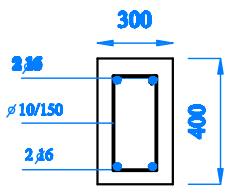
TYPICAL REINF. AROUND ALL OPENNINGS UP TO 1500



TYPICAL UP STAND DEATIAL ROOF OPENNINGS



SEC. IN TYP. LINTEL FOR SPAN UP TO 2.5m



SEC. IN TYP. LINTEL FOR SPAN UP TO 5.0m

NOTES:
ASSUMED BEARING CAPACITY : 8 TON/m

	DATE	INIT	REVISIONS

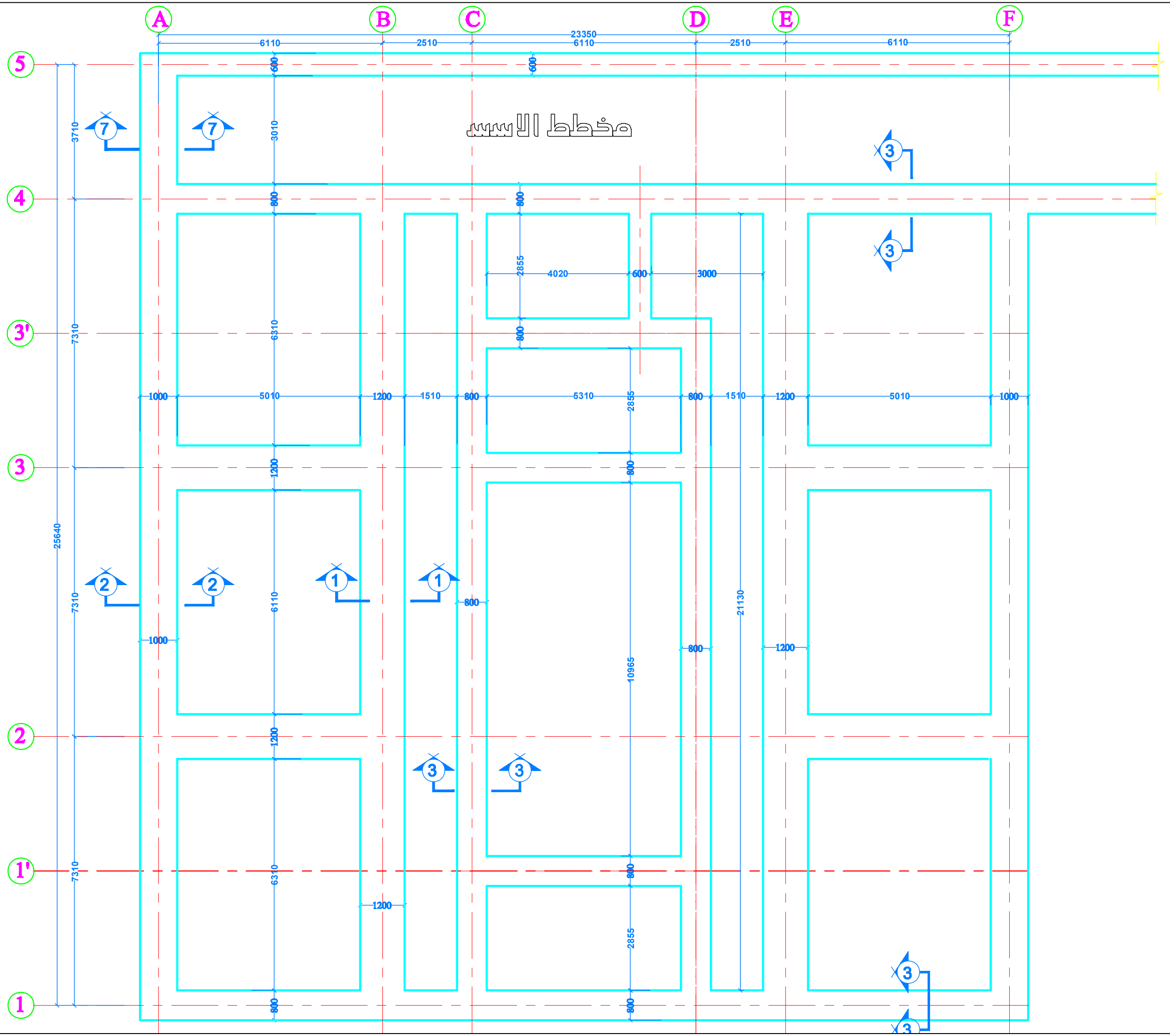
MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect/Engineer WALEED K. AL- AIDALEE

Job Title
مدرسة ابتدائيـــــة
نموذجيــة ســعة 12 صف

Drawing Title
General Notes

Job No.
DRG No. ST/00
REVISION SUFFIX
C.I./IFS
SCALE Not to SCALE
DATE 3/10/2004
DRAWING
CHECKED



NOTES:
ASSUMED BEARING CAPACITY : 8 TON/m

DATE	INIT	REVISIONS

MINISTRY OF HOUSING & CONSTRUCTION
NATIONAL CENTER FOR ENGINEERING CONSULTANCY

Job Architect Engineer: WALEED K. AL- AIDALEE

Job Title: مدرسة ابتدائيـــــة نموذجيــة ســعة 12 صف

Drawing Title: مخطط الاســس للصـــــفوف

Job No.:

DRG No.: ST/01

REVISION SUFFIX:

CL/SFB:

SCALE: 1/100 | DATE: 2/10/2004 | DRAWING: waleed al - aidalee | CHECKED: