

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE PRIOR TO BEGINNING WORK.
2. CONTRACTOR SHALL REPORT ANY DISCREPANCIES IN THE DRAWINGS TO THE DESIGN ENGINEER.
3. NOTES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND RESOLVED BEFORE PROCEEDING TO WORK WHEN THERE IS AN OMISSIONS OR CONFLICT BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS ,
4. DRAWINGS MUST NOT BE SCALE .ALL DIMENSIONS ARE IN MILLIMETERS UNLESS INDICATED OTHERWISE.
5. THE REPAIR &STRENGTHENING WORK SHOULD BE EXECUTED ON SITE THROUGH APPROVED REPAIR AND STRENGTHENING SUB CONTRACTOR AND SUPERVISED BY SPECIALIZED REPAIR AND STRENGTHENING CONSULTANT.
6. THE CONTRACTOR IS REQUIRED TO PROVIDE A GENERAL METHOD STATEMENT DETAILING PHASING OF THE WORKS ,PROGRAMMING , MATERIALS TO BE USED ETC .
7. THE CONTRACTOR SHOULD PAY ATTENTION TO THE SPECIFICATION REQUIREMENTS FOR APPROPRIATE SHORING ,REPAIR PREPARATION ,MATERIAL INSTALLATION AND SUBSEQUENT CURING .
8. DURING REPAIR WORKS ,NEW LOADS SHALL BE AVOIDED ON THE AREAS WHERE STRENGTHENING WILL BE DONE .CONTRACTOR SHALL PROCEED WITH LIGHT FINISHING WORKS.
9. TEMPORARY WORKS SUCH AS PROPPING AND BRACING OF THE STRUCTURE SHALL BE INSTALLED AS PER THE RECOMMENDED PROCEDURE AND SPECIFICATION OF THE DESIGNER.
10. ALL REQUIRED TASKS,INCLUDING CONCRETE REMOVAL AND SURFACE PREPARATION ,NEED TO BE DONE IN ACCORDANCE WITH SPECIFICATIONS AND DRAWINGS AND TO GOOD INDUSTRY PRACTICE.
11. CONTRACTOR SHALL HAVE DAILY MONITORING OF TEMPERATURE , HUMIDITY ,AND WEATHER CONDITIONS THAT MAY AFFECT THE REPAIR PROCEDURE.
12. SAFETY MEASURE SHALL BE IMPLEMENTED TO ENSURE THE SAFETY OF ALL PERSONNEL AND THE STRUCTURE BEING REPAIRED OR STRENGTHENED THROUGHOUT THE COURSE OF THE WORK.

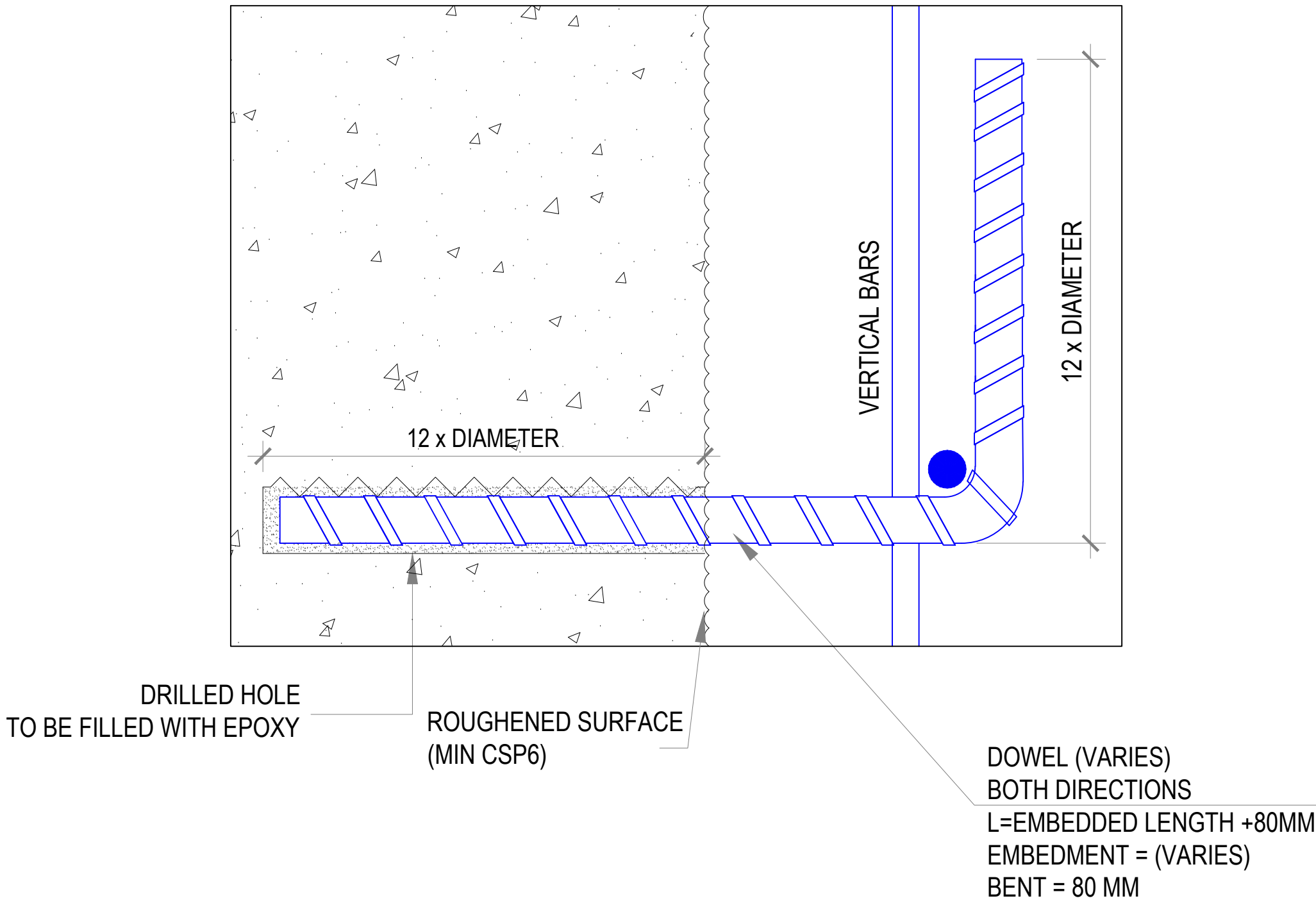
MINIMUM EMBEDMENT LENGTHS		
BAR DIAMETER (MM)	DRILLED HOLE DIAMETER (MM)	MINIMUM EMBEDMENT (MM)
10	14	120
12	16	150
16	20	200
20	25	250
25	32	300
32	40	350

USE PURE EPOXY BONDED ANCHORING SYSTEM SUCH AS;  
1 - HILTI RE500  
2 - MASTER FLOW 932 AN  
3 - SIKA ANCHOR FIX 3  
OR APPROVED EQUIVALENT

NOTES FOR CONCRETE ENLARGEMENT

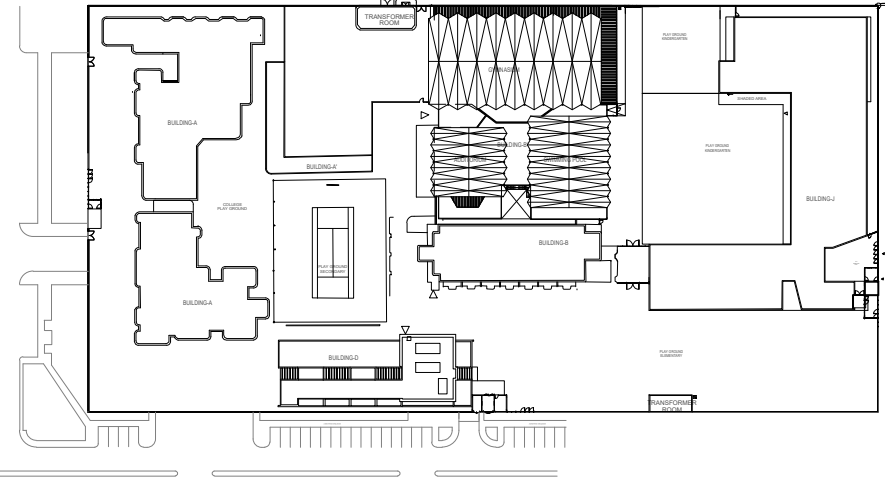
1. EXISTING CONCRETE SURFACE SHOULD BE ROUGHEN TO 6MM AMPLITUDE INCLUDING SLAB SOFIT ,BEAM SIDES ,WALLS AND COLUMN SIDES.
2. REINFORCEMENT STEEL SHALL BE GRADE 460MPA.
3. THE STARTER BARS SHOULD BE INSTALLED BY DRILLING HOLES IN THE SLAB TO PATH THROUGH THE BARS
4. STEEL DOWELS SHOULD BE ANCHORED THROUGH THE EXISTING COLUMNS OR WALLS USING HILTI RE 500 OR EQUIVALENT.
5. A MINIMUM CLEARANCE OF 25MM SHALL BE ALLOWED BETWEEN PROPOSED LONGITUDINAL BARS AND ROUGHENED SURFACE OF THE CONCRETE.
6. PROPOSED NORMAL CONCRETE C50 SHOULD BE USED WITH MINIMUM CUBE COMPRESSIVE STRENGTH 50N/MM<sup>2</sup> .
7. CONCRETE POURING SHOULD BE FROM LETTERHEAD DOORS FROM THE SHUTTER AT MAXIMUM HEIGHT 2M.
8. THE LAST 300MM BELOW THE SLAB SHOULD BE CLOSED AND FILLED BY PUMPING CONCRETE GROUT SUCH AS MASTEREMACO S466 OR EQUIVALENT.
9. FULL PUMPING TECHNIQUE IS ALSO ACCEPTED.
10. PROPER CURING IS REQUIRED FOR MIN 15 .DAYS
11. ALL PROPOSED STEEL BARS SHOULD ACHIEVE ITS DEVELOPED LENGTH WITH THE EXISTING STARTER BARS ,IF NOT ,SHOULD BE ANCHORED TO THE EXISTING WALL BASED ON THE TABLE AT GENERAL NOTES.
12. ALL EXPOSED STEEL BARS SHALL BE COATED WITH ZINC-RICH PAINT
13. MINIMUM CONCRETE CLEAR COVER TO BE AS FOLLOWS:

- COLUMNS 40MM  
- WALLS 25MM  
- SLABS 25MM  
- BEAMS 40MM



DOWEL DETAIL  
--- N.T.S

LAND KEY :



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01	ISSUED FOR TENDER	18/04/2025
REV. NO.	DESCRIPTION	Date

OWNER:

دائرة التعليم والمعرفة  
DEPARTMENT OF EDUCATION  
AND KNOWLEDGE  
LYCEE LOUIS MASSIGNON SCHOOL

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PROJECT NAME :

**REFURBISHMENT OF  
FRENCH SCHOOL  
BLOCK B'**

ZONE :

**ABU DHABI ISLAND**

SECTOR NO :  
**E-40**

PLOT NO :  
**26-27**

PROJECT NO :  
**HP.1782**

PROJECT DESCRIPTION :

DRAWING TITLE :

**GENERAL NOTES AND DETAILS**

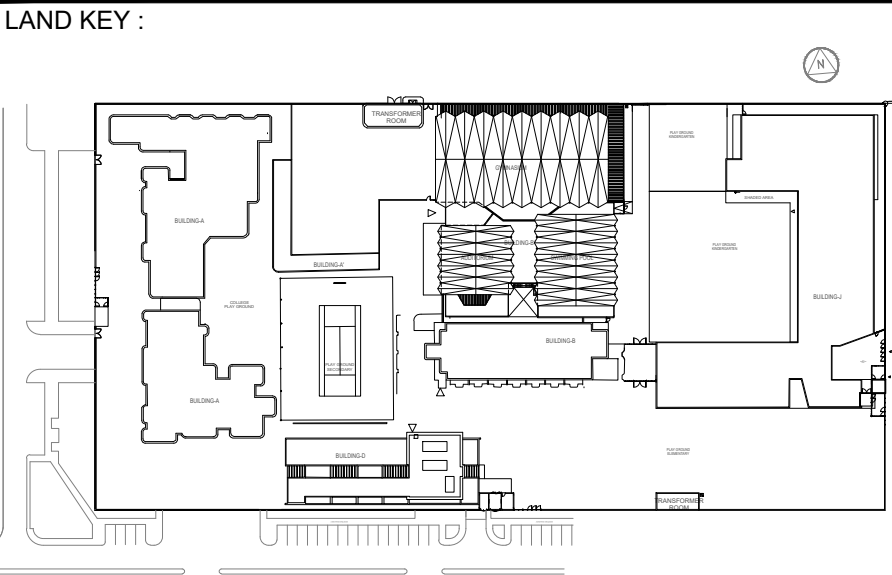
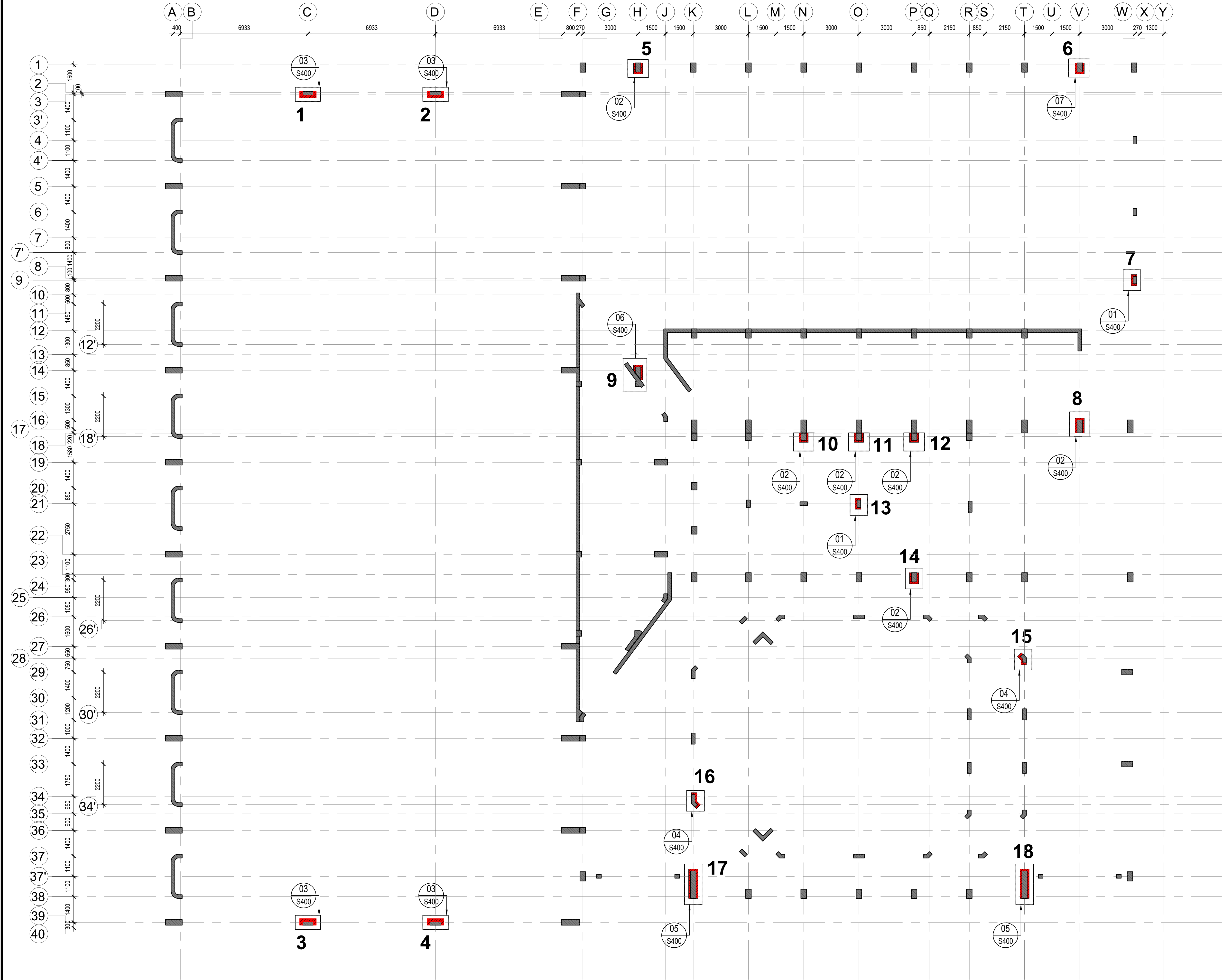
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**CS-001**

REVISION NO:  
**01**

SUBMISSION DATE :  
**18-04-2025**

SCALE :  
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NOTE:

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2. REFER TO DWG 8400 FOR COLUMNS STRENGTHENING DETAILS.
3. CONTRACTOR IS RESPONSIBLE TO CONFIRM EXISTING COLUMN DIMENSION IN ACCORDANCE WITH APPROVED DRAWING. ANY DISCREPANCY TO BE BROUGHT TO ATTENTION FOR VERIFICATION.

LEGEND:

	EXISTING COLUMN OR WALL BELOW
	EXISTING COLUMN OR WALL ABOVE
	COLUMN OR WALL STRENGTHENING BELOW
	COLUMN OR WALL STRENGTHENING ABOVE

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OWNER:

دائرة التعليم والمعرفة  
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AND KNOWLEDGE  
LYCEE LOUIS MASSIGNON SCHOOL

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PROJECT NAME :

**REFURBISHMENT OF  
FRENCH SCHOOL  
BLOCK B'**

ZONE :

**ABU DHABI ISLAND**

SECTOR NO : E-40

PLOT NO : 26-27

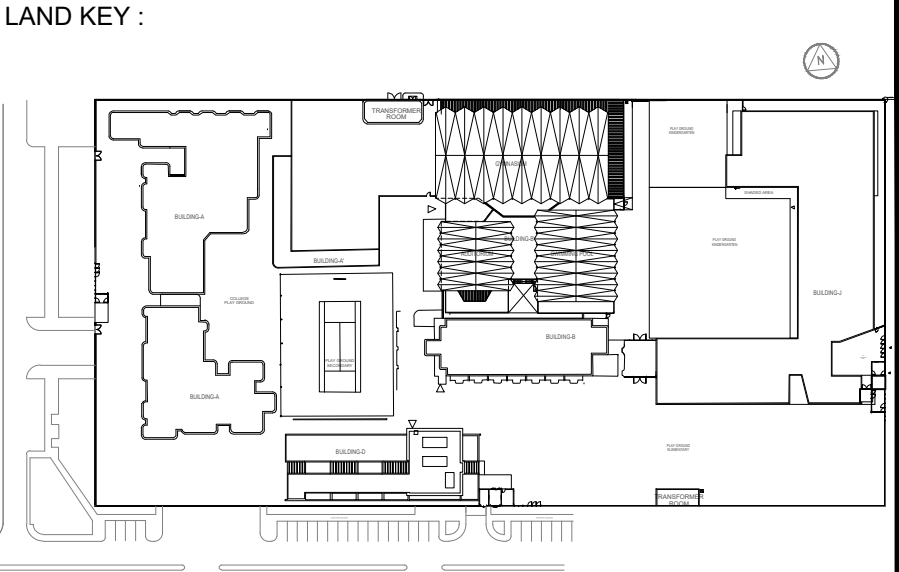
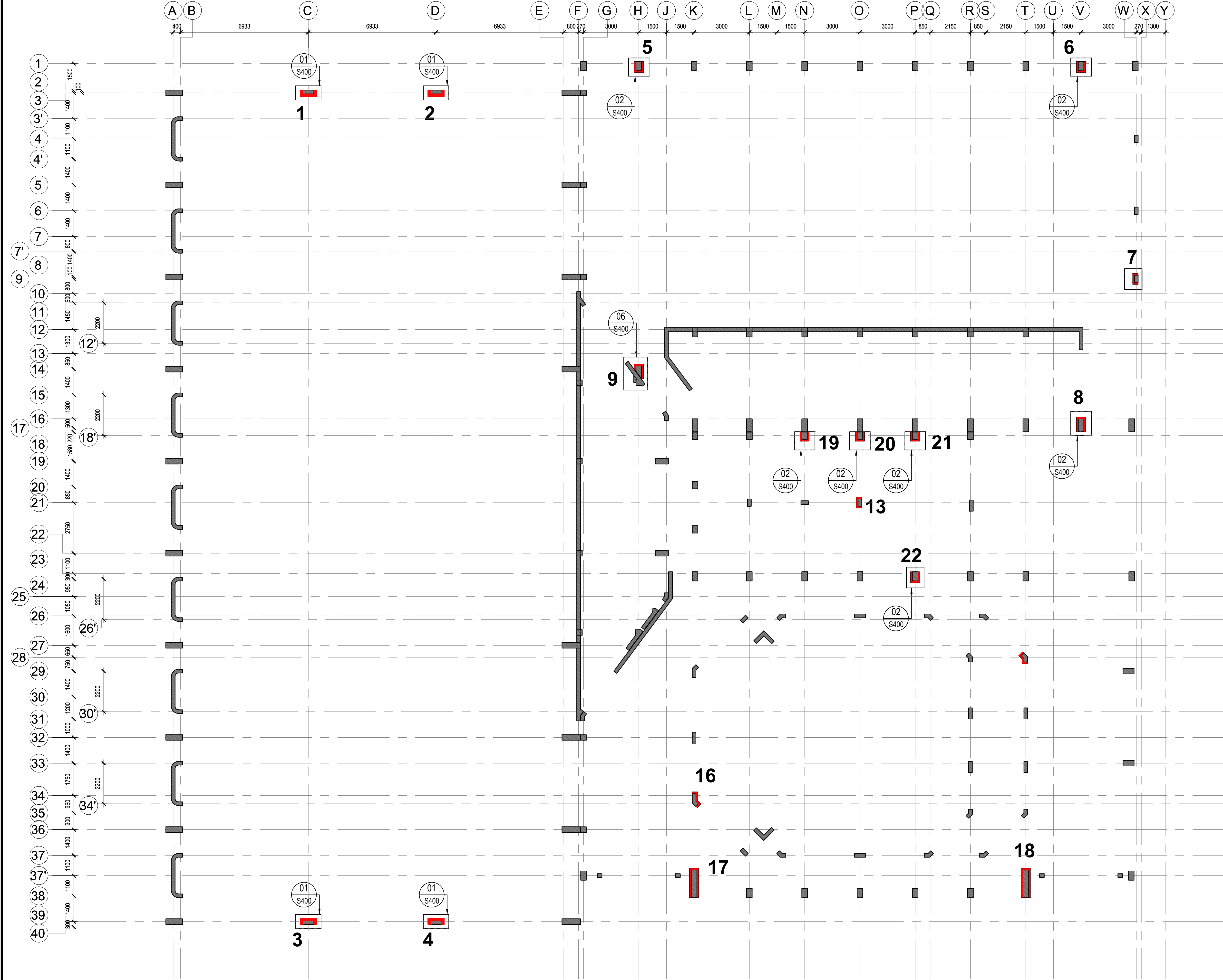
PROJECT NO : HP.1782

PROJECT DESCRIPTION :

DRAWING TITLE :

**GROUND FLOOR  
COLUMNS STRENGTHENING LAYOUT**

DRAWING NO : CS-100	REVISION NO: 01
SUBMISSION DATE : 18-04-2025	SCALE : 1:100



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			COLUMN OR WALL STRENGTHENING ABOVE

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OWNER:		
دائرة التعليم والمعرفة DEPARTMENT OF EDUCATION AND KNOWLEDGE LYCEE LOUIS MASSIGNON SCHOOL		

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info@accoladecs.ae | +971 26790775 | Abu Dhabi

PROJECT NAME :  
**REFURBISHMENT OF  
FRENCH SCHOOL  
BLOCK B'**

ZONE :  
**ABU DHABI ISLAND**

SECTOR NO :  
**E-40**

PLOT NO :  
**26-27**

PROJECT NO :  
**HP.1782**

PROJECT DESCRIPTION :

DRAWING TITLE :  
**FIRST FLOOR  
COLUMNS STRENGTHENING LAYOUT**

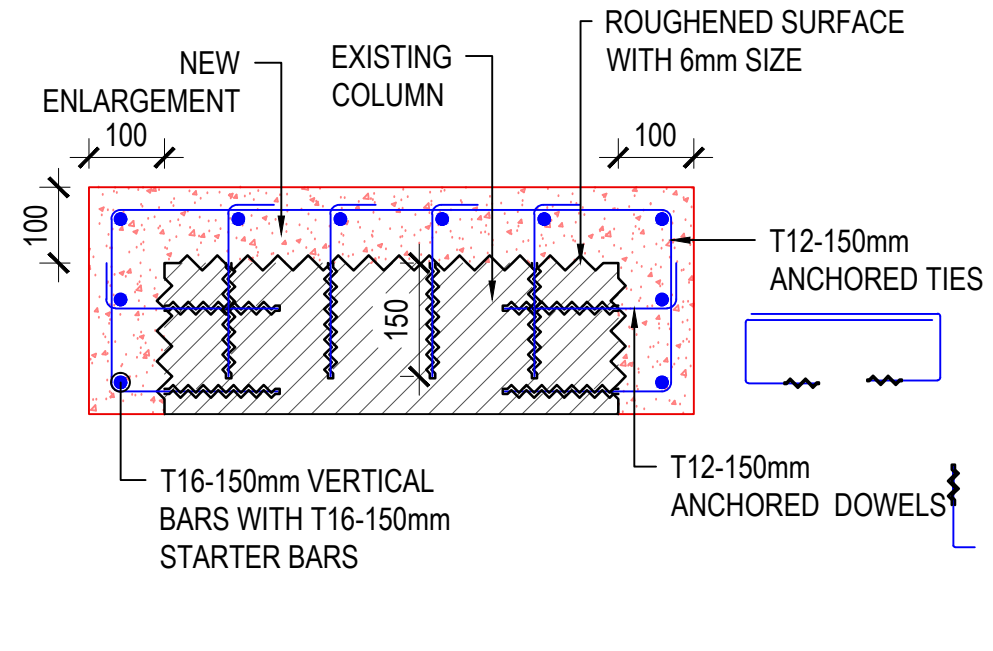
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REVISION NO:  
**01**

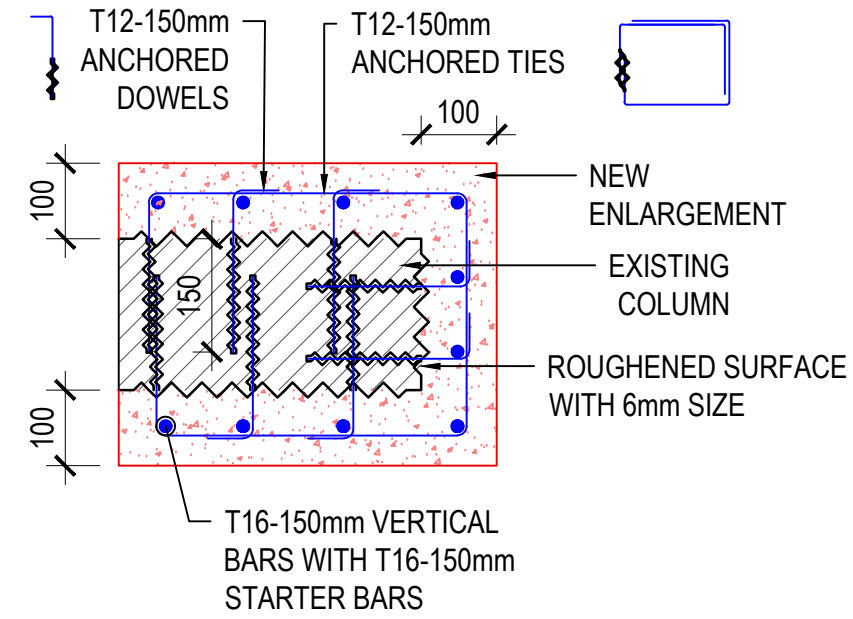
SUBMISSION DATE :  
**18-04-2025**

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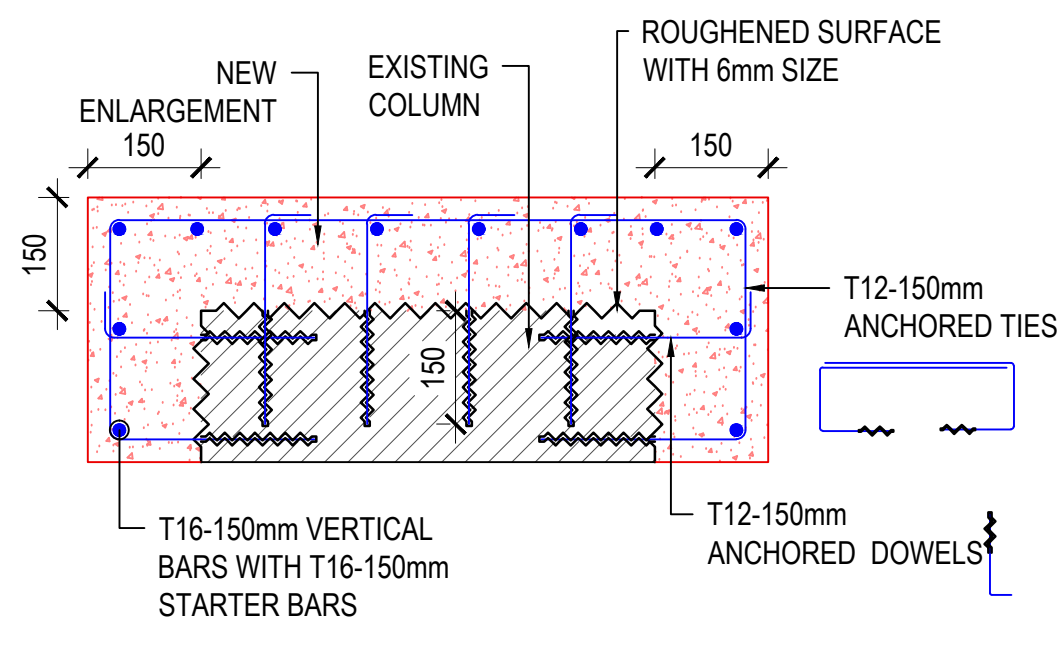




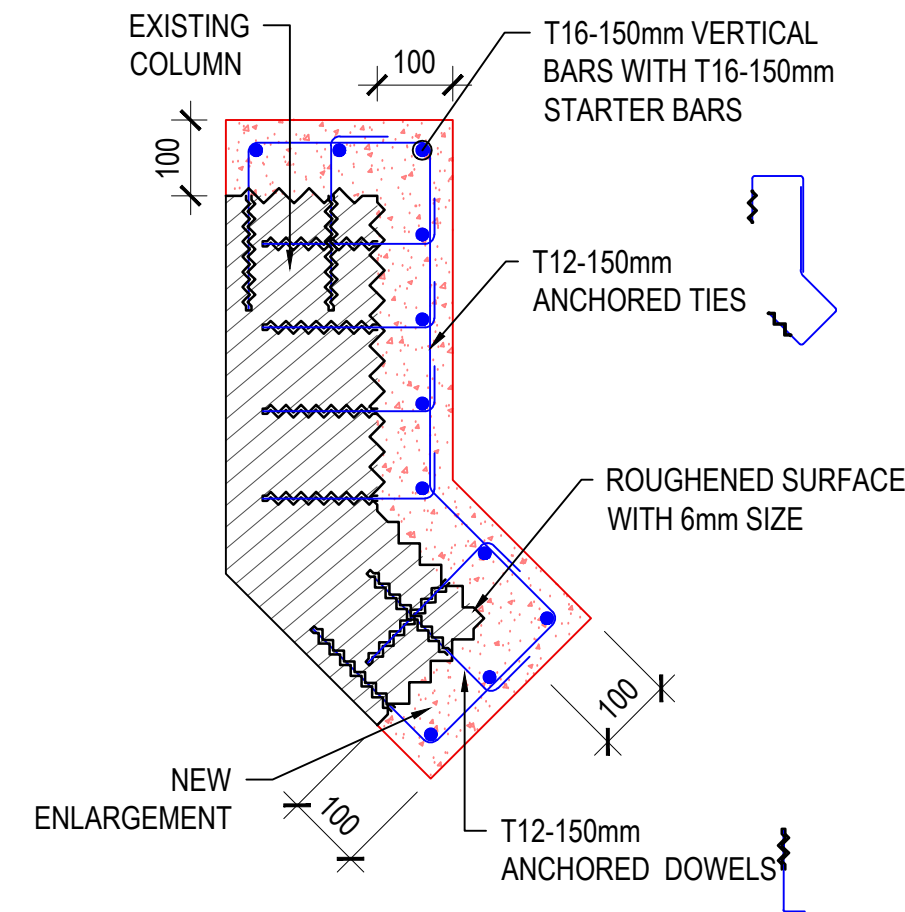
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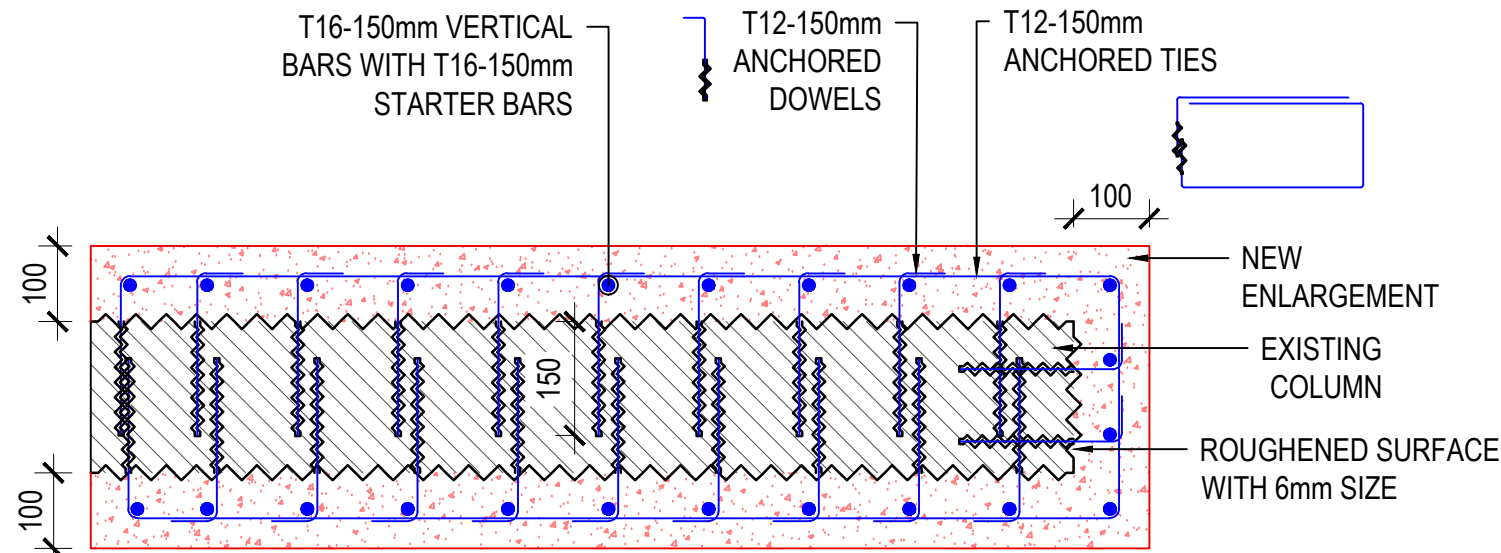
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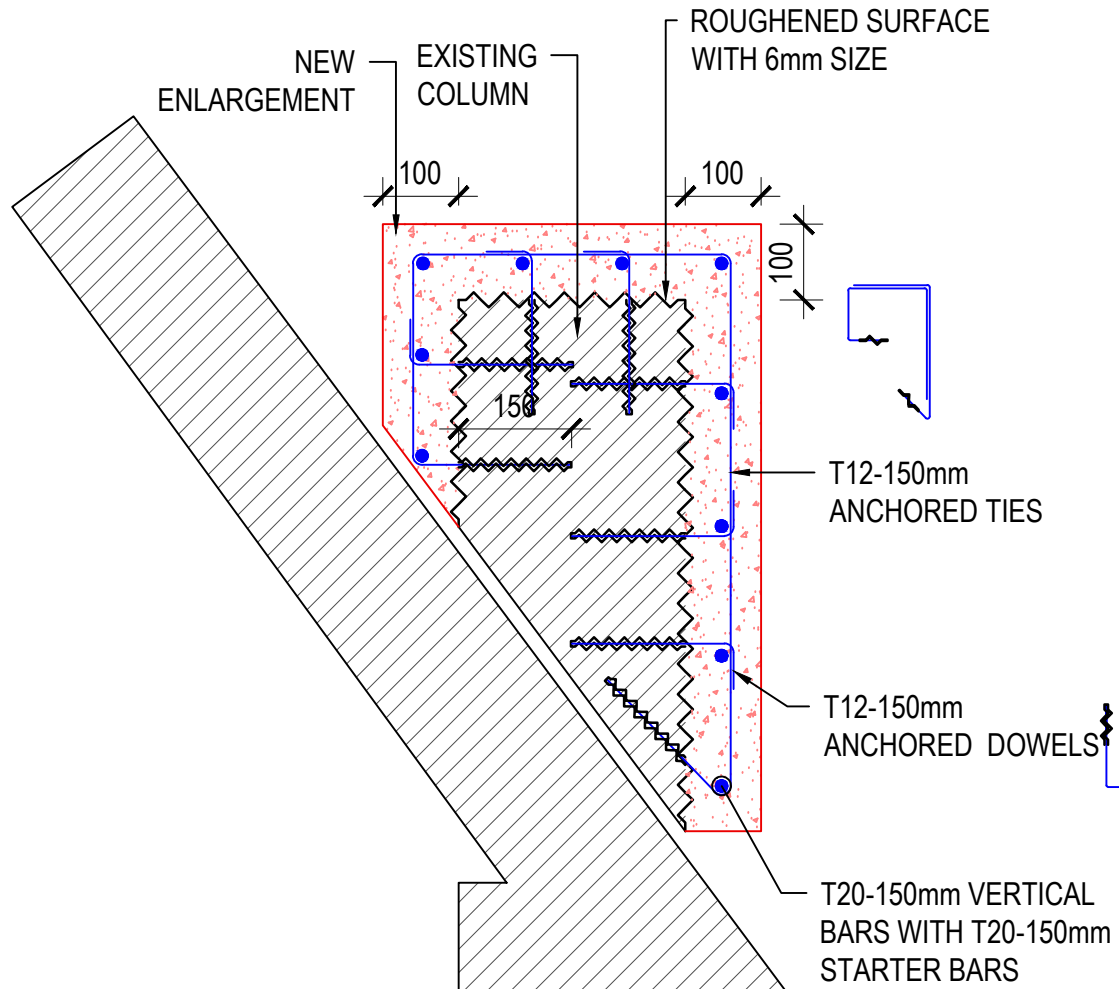
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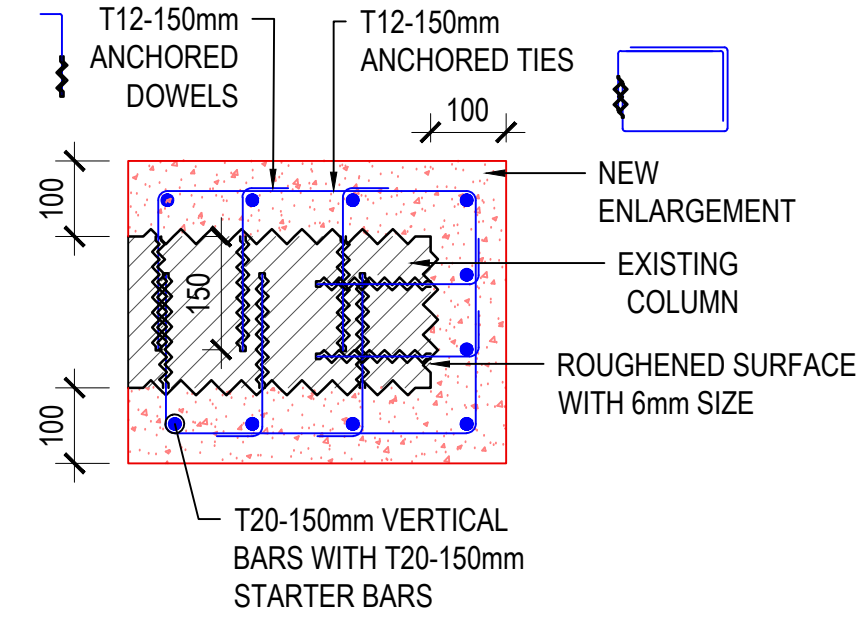
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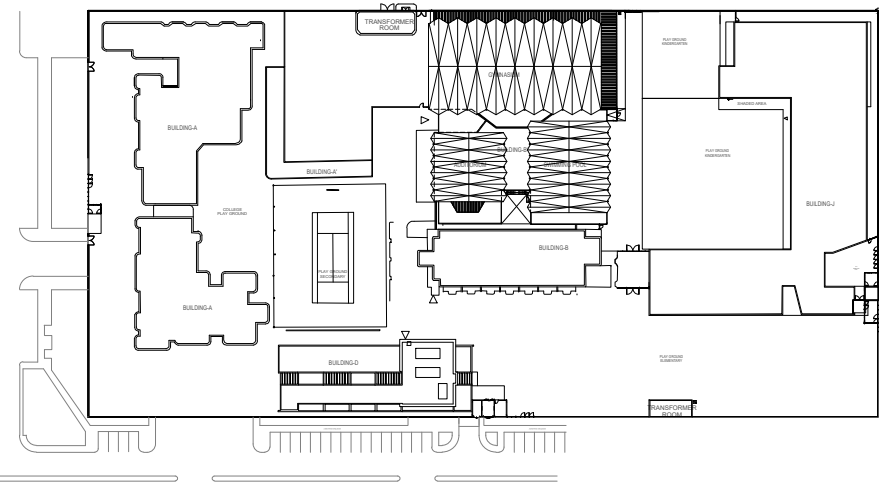


06 SECTION DETAIL-06  
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07 SECTION DETAIL-07  
1:10

LAND KEY :





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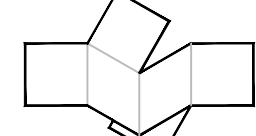
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REV. NO.	DESCRIPTION	Date
OWNER:		
<div> <div> دائرة التعليم والمعرفة DEPARTMENT OF EDUCATION AND KNOWLEDGE LYCEE LOUIS MASSIGNON SCHOOL </div>  </div>		

CONSULTANT :	HELAL & PARTNERS
<div> <div> ARCHITECTS   ENGINEERS   TOWN PLANNERS P.O. BOX 3521 ABU DHABI T+971 2 641 4145 F+971 2 641 4165 helal bldg. hazmieh BEIRUT T+961 5 459 079 F+961 5 459 079 www.helalandpartners.com </div>  </div>	

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MEP CONSULTANT	Accolade
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PROJECT NAME :	REFURBISHMENT OF FRENCH SCHOOL BLOCK B'
----------------	---

ZONE :	ABU DHABI ISLAND
--------	------------------

SECTOR NO :	E-40
PLOT NO :	26-27

PROJECT NO :	HP.1782
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PROJECT DESCRIPTION :

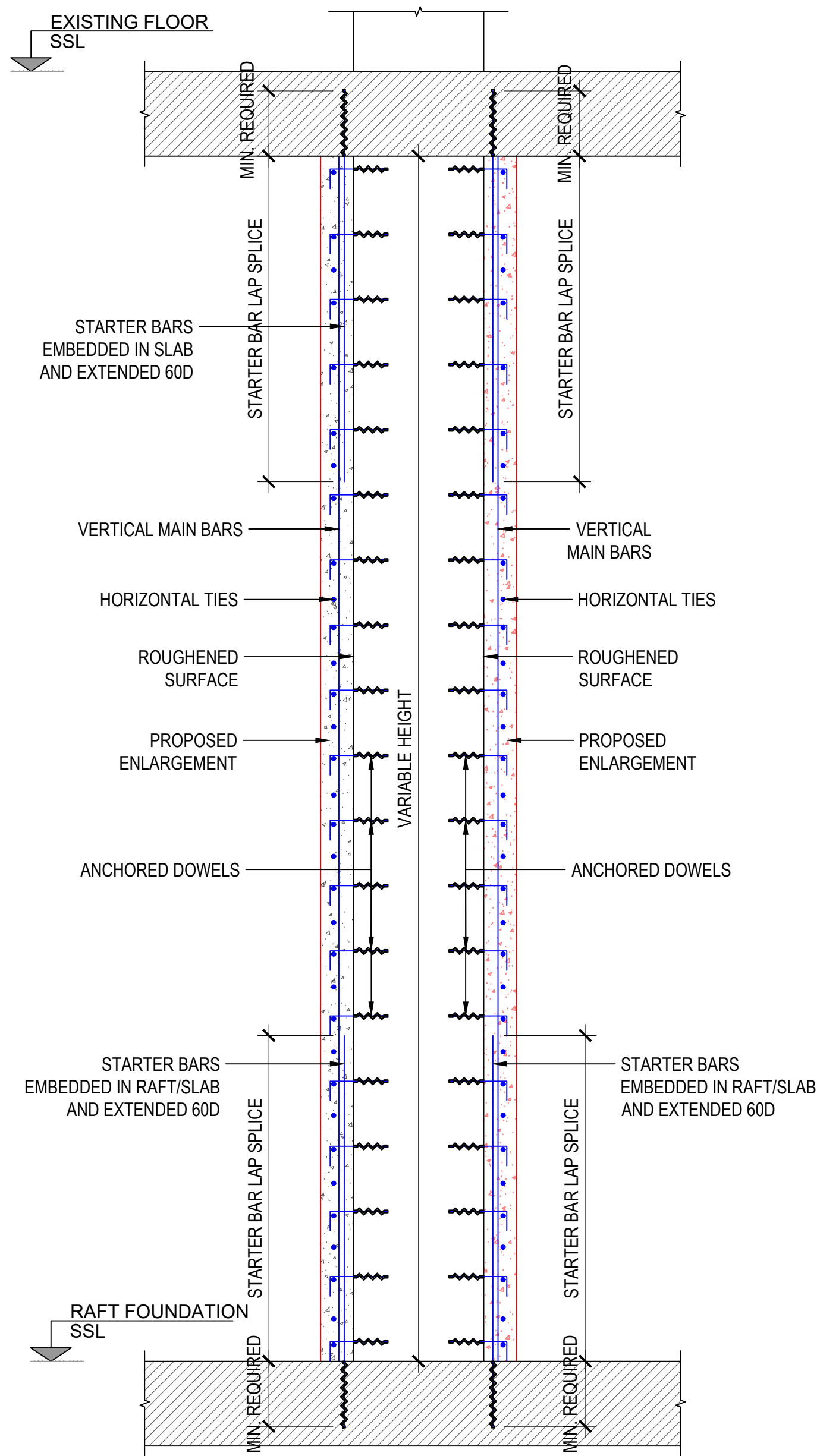
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COLUMNS STRENGTHENING DETAILS

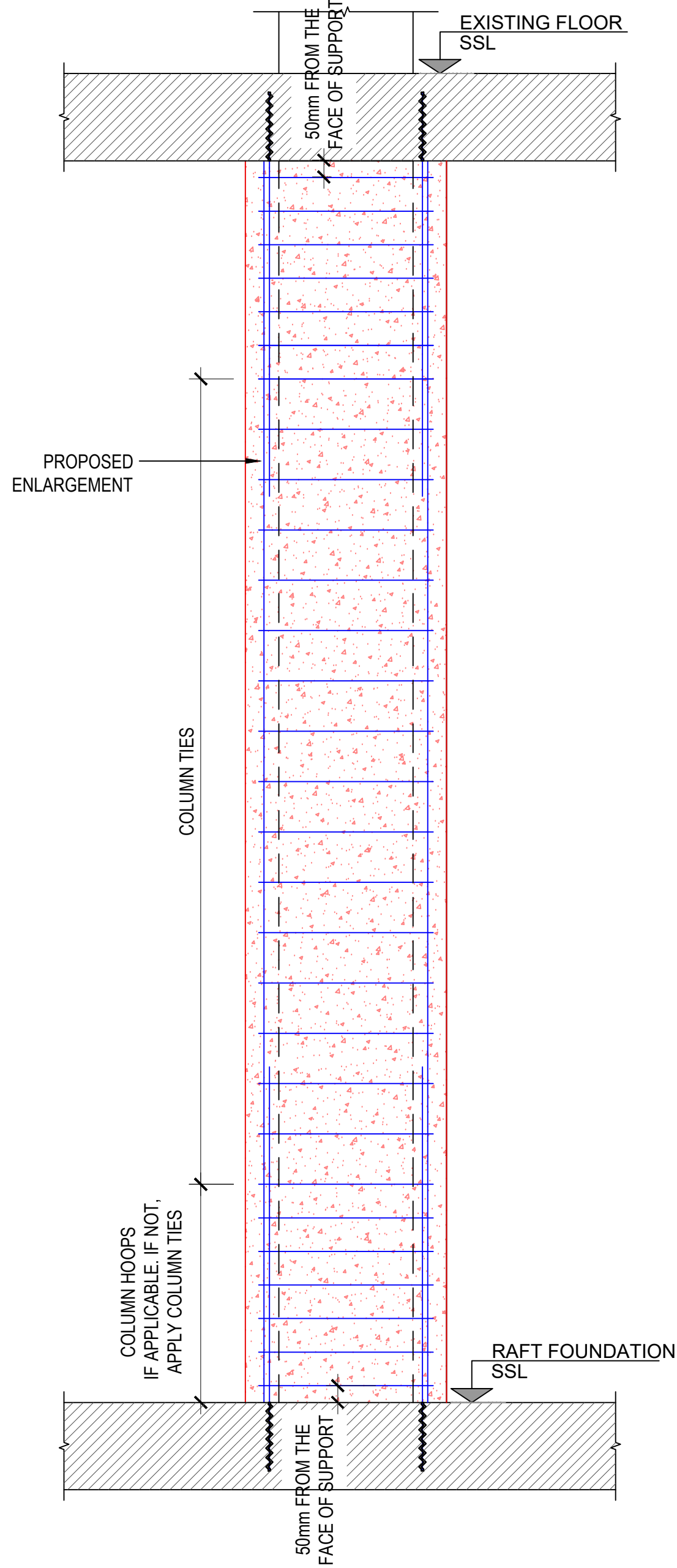
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REVISION NO:	01

SUBMISSION DATE :	18-04-2025
SCALE :	1:10

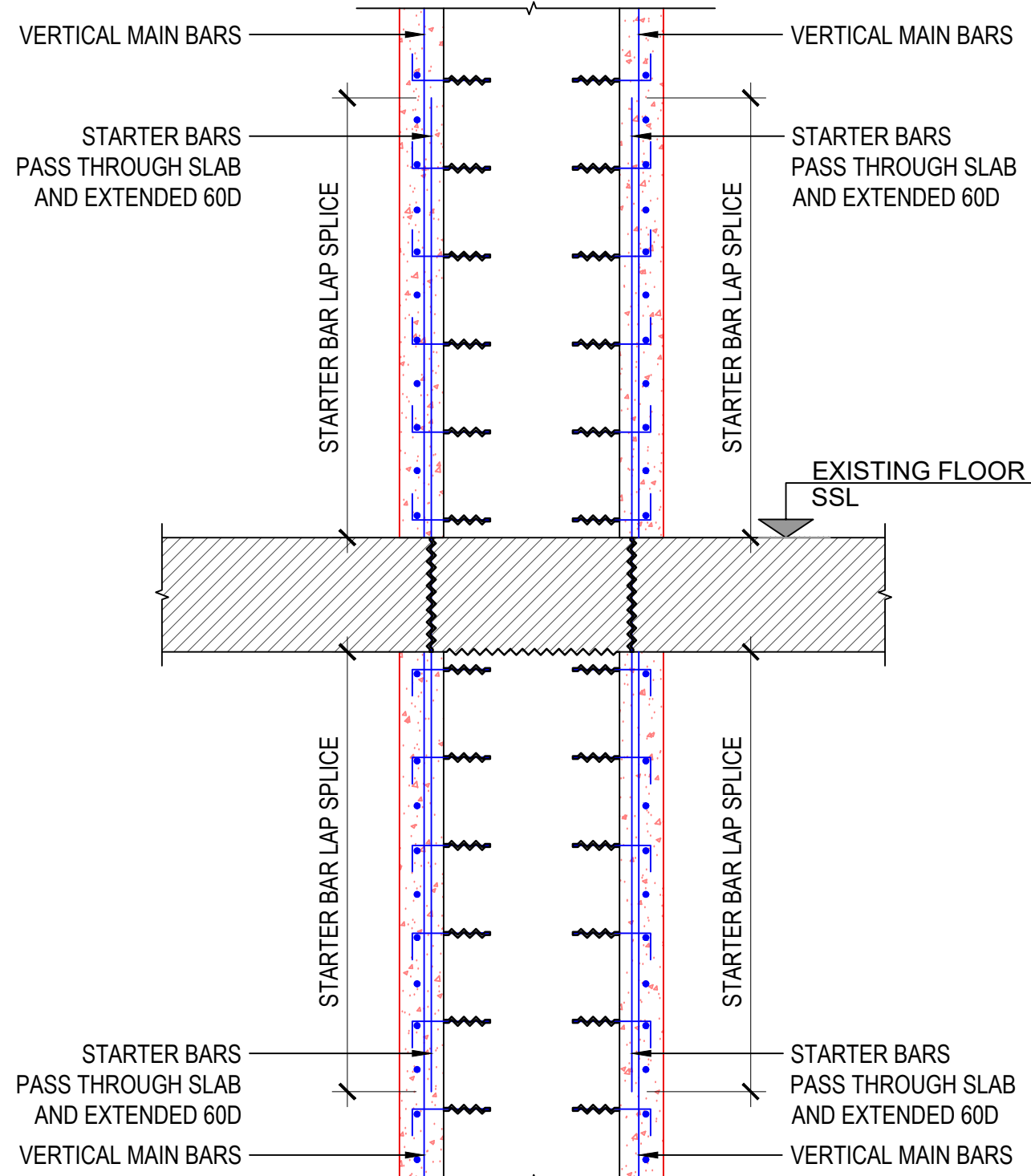




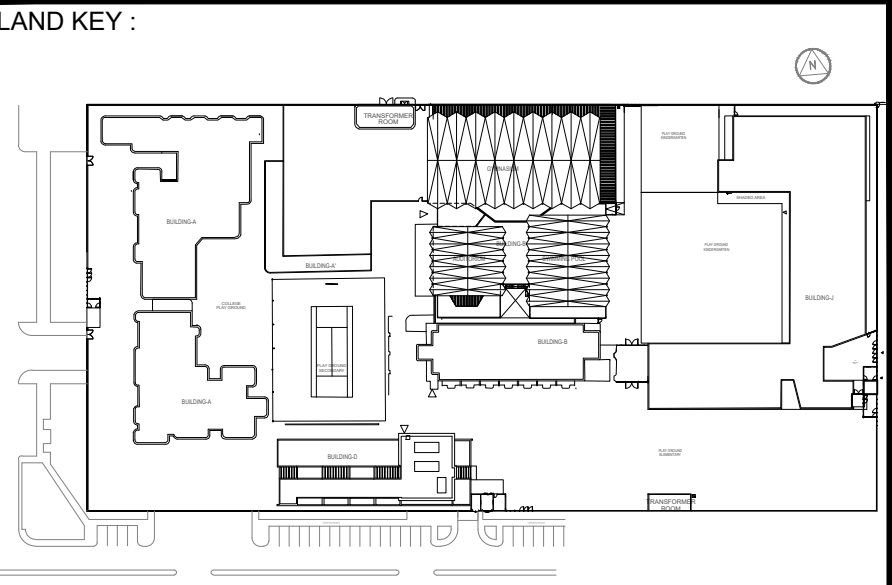
1 COLUMN ENLARGEMENT TYPICAL ELEVATION  
--- N.T.S



2 COLUMN ENLARGEMENT TYPICAL ELEVATION  
--- SHOWING TIES AND HOOPS SPACING DETAIL N.T.S



3 STARTER BAR PASS THROUGH  
--- SLAB OR BEAM TYPICAL DETAIL N.T.S




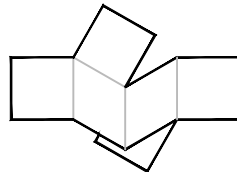



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8. ANY OMISSION OR DISCREPANCY FOUND SHALL BE REPORTED TO THE ARCHITECT/ENGINEER IMMEDIATELY AND PRIOR TO THE COMMENCEMENT OF THE WORKS.
9. ALL LEVELS ARE TAKEN FROM THE LEVEL +0.00M WHICH CORRESPONDS AT ROAD LEVEL.

NOTE:

1. REFER TO DWG 8000 FOR GENERAL NOTES AND GENERAL DETAILS.
2. REFER TO DWG 3400 FOR COLUMNS STRENGTHENING DETAILS.
3. CONTRACTOR IS RESPONSIBLE TO CONFIRM EXISTING COLUMN DIMENSION IN ACCORDANCE WITH APPROVED DRAWING. ANY DISCREPANCY TO BE BROUGHT TO A FORCE ATTENTION FOR VERIFICATION.

01	ISSUED FOR TENDER	18/04/2025
REV. NO.	DESCRIPTION	Date
OWNER:		
<div>وزارة التعليم والمعرفة</div> <div>DEPARTMENT OF EDUCATION AND KNOWLEDGE</div> <div>LYCEE LOUIS MASSIGNON SCHOOL</div> <div></div>		
CONSULTANT :		
<div></div> <div>HELAL &amp; PARTNERS</div> <div>ARCHITECTS   ENGINEERS   TOWN PLANNERS</div> <div>P.O.BOX 3321 ABU DHABI T+971 2 641 4145 F +971 2 641 4165</div> <div>helal bldg. hazmeh BEIRUT T+961 5 459 079 F +961 5 459 079</div> <div>www.helalandpartners.com</div>		
STRUCTURAL REPAIR AND STRENGTHENING CONSULTANT:		
<div></div> <div>eFORCE Inspection Consultancies</div> <div>Dr. Ashraf Biddah</div> <div>Abu Dhabi: P.O.Box 93898</div> <div>Dubai: P.O.Box 118148</div> <div>Tel. 02-6777393 Fax 02-6777398</div> <div>Tel. 04-5519910 Fax 04-5519920 Mobile: 050-7636202</div>		
WOODEN ROOF SPECIALIST CONSULTANT:		
<div></div> <div>VS-A</div> <div>architectes d.p.l.g / ingénierie de l'enveloppe</div> <div>41 Place Rihour / F-59000 Lille - France</div> <div>Tel : +33 (0)3 20 52 01 30 email : courner@vs-a.eu</div>		
MEP CONSULTANT		
<div></div> <div>Engineering Consultancy</div> <div>info@accoladecs.ae   +971 26790775   Abu Dhabi</div>		
PROJECT NAME :		
REFURBISHMENT OF FRENCH SCHOOL BLOCK B'		
ZONE :		
ABU DHABI ISLAND		
SECTOR NO :	E-40	PLOT NO : 26-27
PROJECT NO :	HP.1782	
PROJECT DESCRIPTION :		
DRAWING TITLE :		
TYPICAL COLUMNS STRENGTHENING DETAILS		
DRAWING NO :	CS-201	REVISION NO: 01
SUBMISSION DATE :	18-04-2025	SCALE : N.T.S.