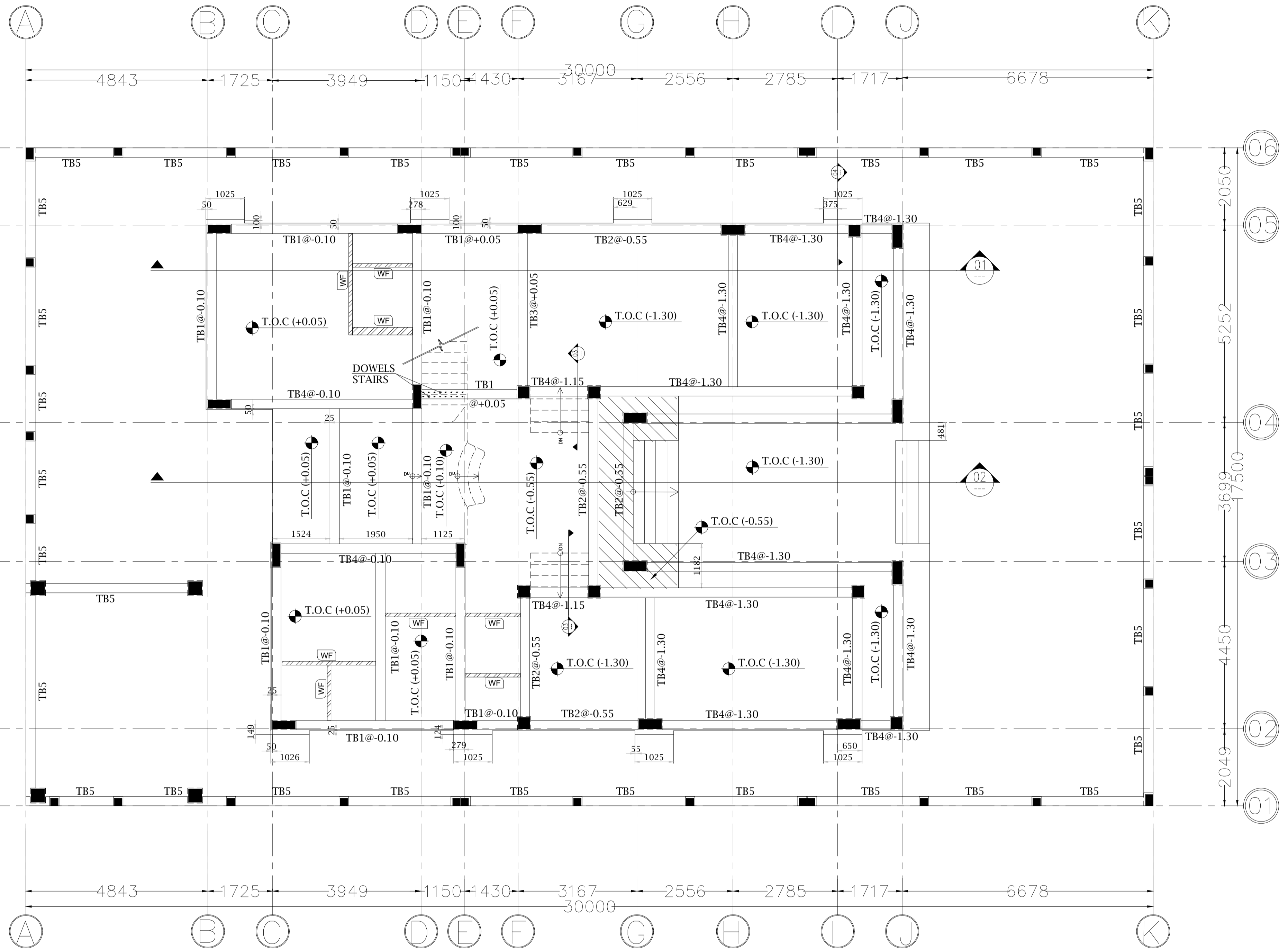


Concrete Mix Details					
Type of Structure	Substructure	Superstructure			
Element	MINIMUM FCM (mm)	MAXIMUM W/C Ratio	MINIMUM Cover of Reinforcement (mm)	Type of Cement / Combination	
Column	25-30	0.55	50	CEM I with 50% GGBS	
Beam	25-30	0.55	50	CEM I with 50% GGBS	
Slab & Floor	25-30	0.55	50	CEM I with 50% GGBS	
Column, above wall	25-30	0.55	50	CEM I with 50% GGBS + 3.5% SLS	
Column, below wall	25-30	0.55	50	CEM I with 50% GGBS + 3.5% SLS	

1. Preliminary measures shall be taken to avoid temperature and shrinkage differences in mass concrete placements.
 2. Any test results shall be reported to the Engineer.
 3. Engineer, Architect, and Laboratory shall be approved by the Client. CEED before commencing any concrete works and related building activity.
 4. Any Variation or Change in the above shall be subject to the Client's Quality Approval. Otherwise will be considered as a violation of regulatory requirements.
 5. Concrete test results shall be per the BS EN 12601:2002 "Practice to make in situ".
 6. Use of test mix and that test mix shall be conducted for each concrete mix.
 7. The concrete mix design shall follow the specified durability and other requirements.



NOTES:

- THIS DRAWING IS THE PROPERTY OF: NOBLE ENGINEERING CONSULTANTS P.O.Box 183231, DUBAI. IT IS FORBIDDEN TO PRODUCE ITS CONTENTS IN ANY FORM, EXCEPT FOR THE INTENDED PURPOSE.
- THIS DRAWING IS NOT TO BE SCALED. THE STATED DIMENSIONS ONLY ARE TO BE CONSIDERED.
- THE DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION AND RESOLVED BY PIONEERS OF EXPERTS ENGINEERING CONSULTANT BEFORE COMMENCEMENT OF ANY WORK.

A- CONCRETE AND STEEL SPECIFICATIONS ARE ASSUMED TO BE:

- FY EQUAL 460 MPA FOR ALL STEEL TYPES.
- FC EQUAL 32 MPA OR FCU EQUAL 40 MPA.

B- LOADS ARE ASSUMED TO BE:

- DEAD LOAD IS ASSUMED FOR FIRST SLAB 5.0 KN/M².
- DEAD LOAD IS ASSUMED FOR SECOND SLAB 3.0 KN/M².
- LIVE LOAD IS ASSUMED FOR FIRST SLAB 3.0 KN/M².
- LIVE LOAD IS ASSUMED FOR SECOND SLAB 2.0 KN/M².

C- SOIL REPORTS SPECIFICATIONS:

- BEARING CAPACITY IS ASSUMED TO BE 180 KN/M².
- FOR FOUNDATION LEVEL FOLLOW DRAWING ST 11.
- PLEASE TAKE THE WHOLE INFORMATION FROM SOIL REPORT XSD/19-0049.

D- NOMINAL COVER IS ASSUMED TO BE:

- CLEAR COVER FOR SUBSTRUCTURE 50mm FOR CONCRETE IN DIRECT CONTACT WITH SOIL. 75mm FOR CONCRETE IN CONTACT WITH SOIL.
- CLEAR COVER FOR BEAMS 30 MM MINIMUM.
- CLEAR COVER FOR SLABS 30 MM MINIMUM.
- CLEAR COVER FOR COLUMNS 30 MM MINIMUM.

E- USED IN DESIGN AMERICAN CODE ACI318-14.

F- ANY MISSING IN DETAILS PLEASE FOLLOW UP THE ACI318-14.

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No	DESCRIPTION	DATE	DRWN	CHKD

STATUS: **CONCEPT SUBMISSION**

OWNER: **ABDULAZIZ ABDULLAH ALNOWAISR**

PROJECT: **G+1 PRIVATE VILLA**

DESIGN HEIGHT: G+1	CONSTRUCTION: G+1
LOCATION: JABAL ALI 1ST	PLOT No: AFNBVIL062

CONSULTANT: **NOBLE ENGINEERING CONSULTANT**

NOBLE ENGINEERING CONSULTANT
 HEAD OFFICE: OFFICE 402, ROYAL PLAZA BUILDING- RIGGA ROAD - DIERA, DUBAI - U.A.E. P.O.BOX: 183231 DUBAI, UAE, TEL: +90971 4 2824747; FAX: +90971 4 2822297

DWG TITLE: **GROUND FLOOR LAYOUT**

SCALE: 1:100	DATE: JULY 2019
ASST./DRAFT: AYA	CHK. ARCH: KASSAR ENG NO. 111454
	CHK. STR. ENG: RASHA ENG NO. 109039

DISCIPLINE: **STRUCTURE**
 PROJECT No: **ST-05**

GROUND FLOOR LAYOUT

