

SCHOOL OF ARCHITECTURE, BUILDING AND DESIGN BACHELOR OF QUANTITY SURVEYING

BLD60104 CONSTRUCTION TECHNOLOGY 1 GROUP ASSIGNMENT

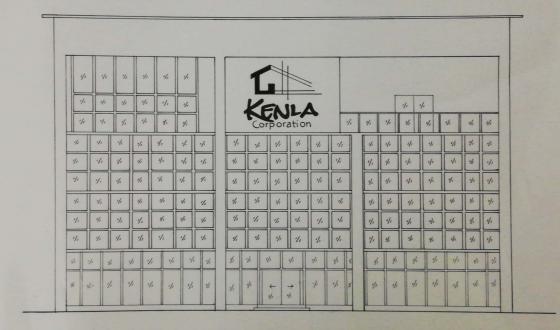
LECTURER

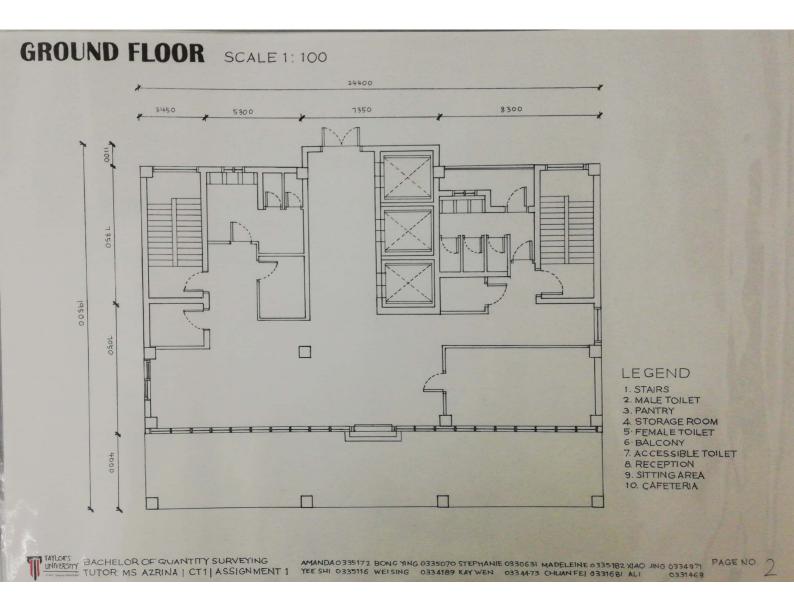
MS. AZRINA BINTI MD YAAKOB

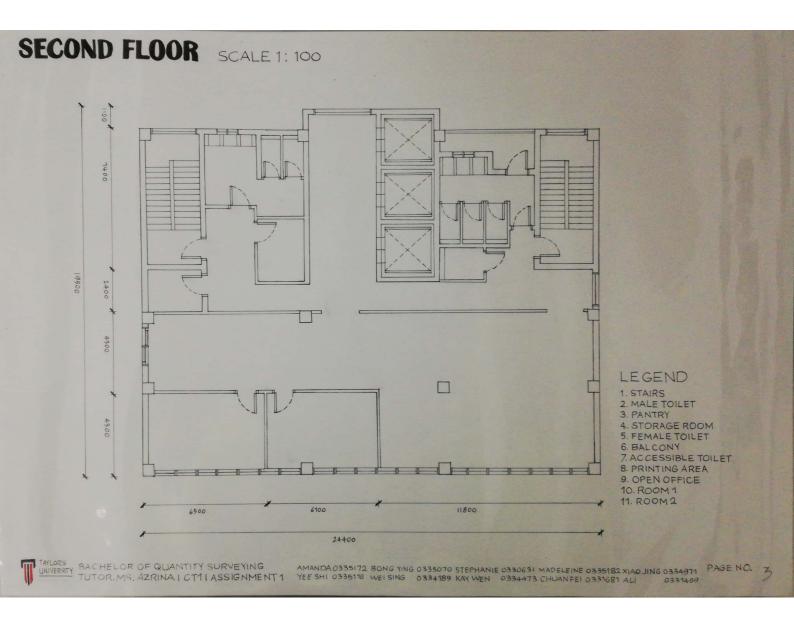
GROUP MEMBERS

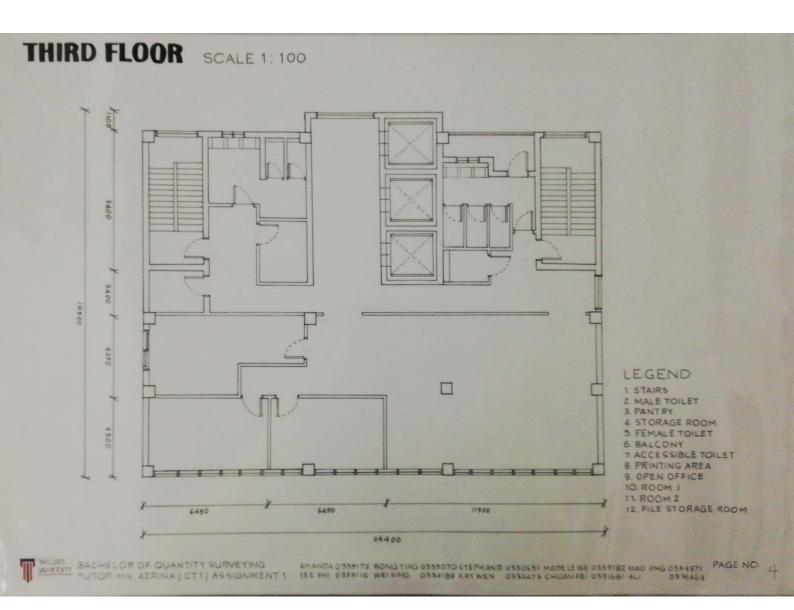
AMANDA MOH TIING SIEW	0335172	LEE YEE SHI	0335116
BONG YING	0335070	CHAI WEI SING	0334189
STEPHANIE CHONG YEE FEI	0330631	LOW KAY WEN	0334473
MADELEINE KONG HUI XUAN	0335182	CHONG CHUAN FEI	0331681
LIM XIAO JING	0334971	ALI MOOSSAJEE	0331469

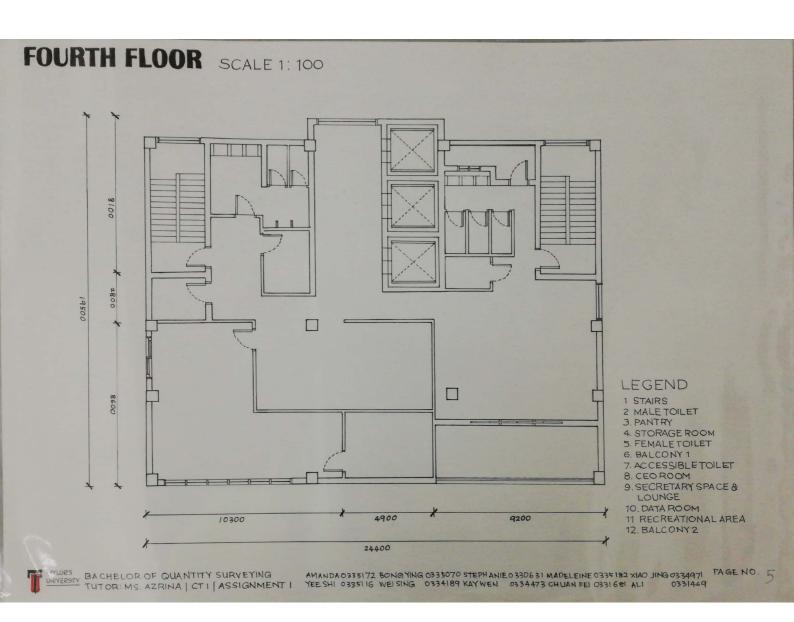
FRONT ELEVATION SCALE 1: 100

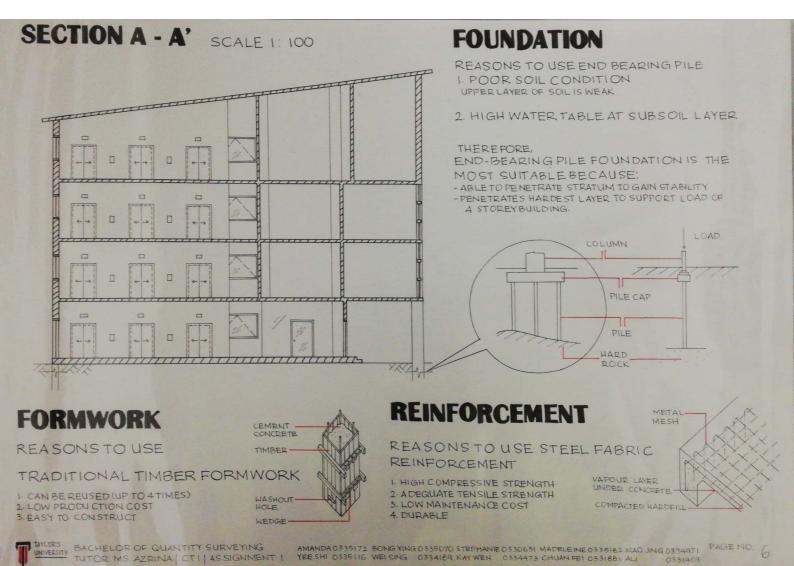






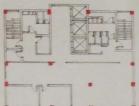


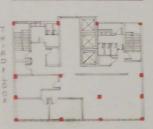


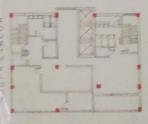


LOCATION OF BEAMS AND COLUMNS

GROUZD FLOOR

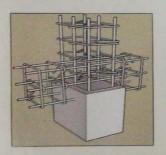






REINFORCEMENT IN BEAMS AND COLUMNS

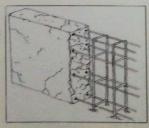
THE REINFORCEMENT BARS ARE MADE OF STEEL. HIGH YIELD STRENGTH BAR IS USED IN BOTH BEAMS AND COLUMNS TO PROVIDE GREATER TENSILE STRENGTH TO SUPPORT THE LOAD OF THE BUILDING. THE SURFACE OF THE REINFORCEMENT BAR MUST BE CAPABLE TO DEVELOP ADEQUATE BOND BETWEEN THE CONCRETE AND REINFORCEMENT. THE PROPOSED BAR SIZE IS BETWEEN 12 TO 32 MM.



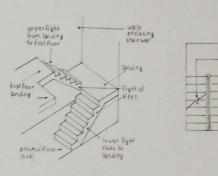
FOR BEAMS, SOME ARE
RECTANGULAR SHAPE AND TSHAPE. THE STEEL REINFORCEMENT
BAR IS BENDED TO FIT INTO THE
BEAM WITH DIFFERENT SHAPES.

FOR COLUMN, RECTANGULAR COLUMN REINFORCEMENT IS USED TO SUPPORT THE BUILDING.





STAIRCASE



[HALF-TURN CONCRETE STAIR

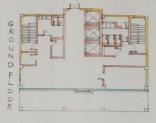
- -THE STAIRS ARE ALSO USED AS ESCAPE STAIR PURING EMERGENCY
- -STAINLESS STEEL HANDRAILS IS USED AS IT IS DURABLE AND STRONG TO PROTECT WORKERS SAFETY. IT IS ALSO EASY TO MAINTAIN.
- -ANTI-SLIP STEP COVERS ARE USED TO IMPROVE TRACTION AND REDUCE THE RISK OF SLIPS AND FALLS.
- ADVANTAGES
- -EFFICIENT USE OF SPACE
- -SUITABLE FOR ANY ARCHITECTURE STYLE
- -THE LANDING SPACE CAN BE USED AS A RESTING POINT
- DISADVANTAGES
 -PIFFICULT TO BUILD
- -REQUIRE A LOT OF EXTRA SUPPORT

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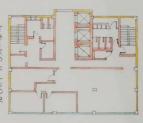
AMANDA 0335173 80 NG YING 0335070 STEPHANIE 0530631 MAPELEINE 0335182 XIAO JING 0334971 YEE SHI 0335116 WEI SING 0334189 KAY WEN 0334473 CHUANFEI 0331661 ALI 0331469

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FLOOR FINISHES











MARBLE FLOOR USED AT THE GROUND FLOOR

ADVANTAGES DURABLE AND LONG LASTING

-HIGH RESISTANCE TO FIRE -EASY TO CLEAN

DISADVANTAGES

- EXPENSIVE
- -EASY TO SCRATCH FROM HARD AND SHARP OBJECTS
- -VERY SLIPPERY



CERAMIC TILES FLOOR

CERAMIC TILES ARE USED IN THE RESTROOM

ADVANTAGES

- WATER RESISTANCE
- DURABLE
- EASY MAINTENANCE
- DISADVANTAGES
- -HARDER SURFACE
- -HEAVIER WEIGHT
- CERAMIC IS COLD MATERIAL



CONCRETE FLOOR

-USED AT ALL FLOOR, EXCEPT IN RESTROOM AND AT GROUND FLOOR

ADVANTAGES

- SUSTAINABILITY
- -EASY MAINTENANCE
- COME IN A VARIETY OF DESIGNS

DISADVANTAGES

- CAN GET DAMAGE BY DAMPNESS SEEPING DOWN BELOW
- -PRONE TO CRACKS

WALLS



BRICK WALL

ADVANTAGES

- -HEAT PROTECTION
- FIRE PROTECTION
- SOUND PROTECTION

DISADVANTAGES

- -NOT AS HARD AS STONE MATERIAL
- -BRICK ABSORBS WATER
- -LESS AESTHETIC



LALUMINIUM CURTAIN GLASS WALL SYSTEM

- THE GLASS IS TINTED AND LAMINATED

ADVANTAGES

- -ALLOW MIGHTING INTO THE BUILDING
- -ATTRACTIVE APPEARANCE
- SLOW FIRE SPREAD

DISADVANTAGES

- -EXPENSIVE
- -DIFFICULT TO MAINTAIN AND INSTALL



CONCRETE WALL

ADVANTAGES

- LOW MAINTENANCE
- -WIND AND WATER RESISTANCE
- -FIRE RESISTANCE

DISADVANTAGES

- -EXPENSIVE
- -DIFFICULT TO TRANSPORT
- -LESS DUCTILE



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WINDOWS

1

10

IALUMINIUM TOP HUNG WINDOW



- ADVANTAGES: GOOD VENTILATION
- -ATTRACTIVE CONTEMPORARY
- DISADVANTAGES:
 -REQUIRE FREQUENT CLEANING
 -DIFFICULT TO INSTALL IF LOCATED
- AT HIGHER LEVEL

IALUMINIUM STATIONARY WINDOW



- ADVANTAGES:
- PROTECT THE SAFETY OF THE WORKERS AS IT IS FIXED
- -ALLOW LIGHT TO PASS THROUGH
- DISADVANTAGES:
- DOES NOT PROVIDE VENTILATION

IALUMINIUM SLIDING WINDOW



- ADVANTAGES:
- -LOW MAINTENANCE - EASY TO USE
- -DURABLE

DISADVANTAGES
- DIFFICULT TO CLEAN THE
OUTSIDE OF SLIDING DOORS

DOORS

AUTOMATIC SLIDING GLASS DOOR



- ADVANTAGES: -PROVIDE
- CONVENIENCE
- -SAVE SPACE
- DISADVANTAGES:
- -EXPENSIVE -DIFFICULT TO INSTALL AND MAINTAIN

HOLLOW CORE FLUSH DOOR



- ADVANTAGES: - CHEAP
- VARIETY OF
- FINISHES
- DISADVANTAGES:
- LESS DURABLE -POOR SOUND INSULATION

ISOLID TIMBER DOOR



- ADVANTAGES: -LESSTENDENCY
- TO WARP -GOOD SOUND RESISTANCE
- DISADVANTAGES:
- -EXPENSIVE
- -OFTEN REQUIRE
- APPLIED DECORATIVE

IFIRE DOOR



- ADVANTAGES.
- -DURABLE
- -HIGH RESISTANCE TOFIRE
- DISADVANTAGES:
- EXPENSIVE
- DIFFICULT TO INSTALL - SPACE CONSUMING



LOOK

TATLORS
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COSTING

METHOD STATEMENT

Door

ltem	Qty	Price/m ²	Area (m²)	Cost RM 21,528	
Automatic Sliding Glass Door	2	RM 2,691	4		
Frameless Commercial Glass Door	1	RM 600	2	RM 1.200	
Hollow Core Flush Door	20	RM 155	2	RM 6.200	
Fire Door	1	RM 300	4	RM 1.200	
Solid Timber Door	39	RM 229	2	RM 17.862	
Tot	al		-	RM 47.990	

Window

ltem	Qty	Price/m2	Area (m²)	Cost
Aluminium Top Hung Window (Type 1) (Toilet)	8	RM 188.00	0.3	RM 451.20
Aluminium Top Hung Window (Type 2) (Comdor)	4	RM 188.00	1.8	RM 1,353,60
Aluminium Top Hung Window (Type 3) (Lift)	3	RM 188.00	4.0	RM 2,256.00
Aluminium Sliding Window	3	RM 208.00	1.9	RM 1,185.60
Aluminium Stationary Window	8	RM 250.00	2.5	RM 5,000.00
	otal			RM 10.216.40

Pile

ltem	Qty	Price	Cost
Pile	14	RM 1,522.40	RM 21,313.60
	Total		RM 21,313.60

Floor Finishes

Item	A rea (m²)	Price/square feet	Cost
Marble Tile Floor	150.67	RM 20.00	RM 3,013,40
Ceramic Tile Floor	177.52	RM 6.00	RM 1.065.12
Concrete Floor	1110.19	RM 10.00	RM 11.101.90
Carpet Flooring	243.15	RM 4.00	RM 972.60
Vinyl Flooring	306.4	RM 4.50	RM 1,378.80
	RM17,531,82		

Wall

tem	Area (m²)	Price/m ²	Cost
Aluminium Curtain Glass Wall Bystem	276.15	RM 584.00	RM 167,27 1.60
	Total		RM 161,271.60

Construction	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul-	Aug.
Site Work	ATTE							3
Foundation		100			13-13	-	1	199
Rough Carpentry								
Concrete Slabs					1999			199
Plumbing Rough- in	172							
Electric Rough-in					10000		1	
Specialty Rough- Ins		1000						- 19
Roofing		1		-	1		1	
Exterior Finishes				100			1	0
Insulation		1 - 5 - 1					1 1 1 1	1
Floor Finishes	3-	1					-	
Paint	7	1						
Interior Trim		1					1	
Plumbing Trim			Frank				1	
Exterior Landscaping			1					
Electrical Final Trim			- 19					
Hardware					100			1
Final Punch-out		1000	1	1	-			-
Cleaning		1 7 7	1000	1				-



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