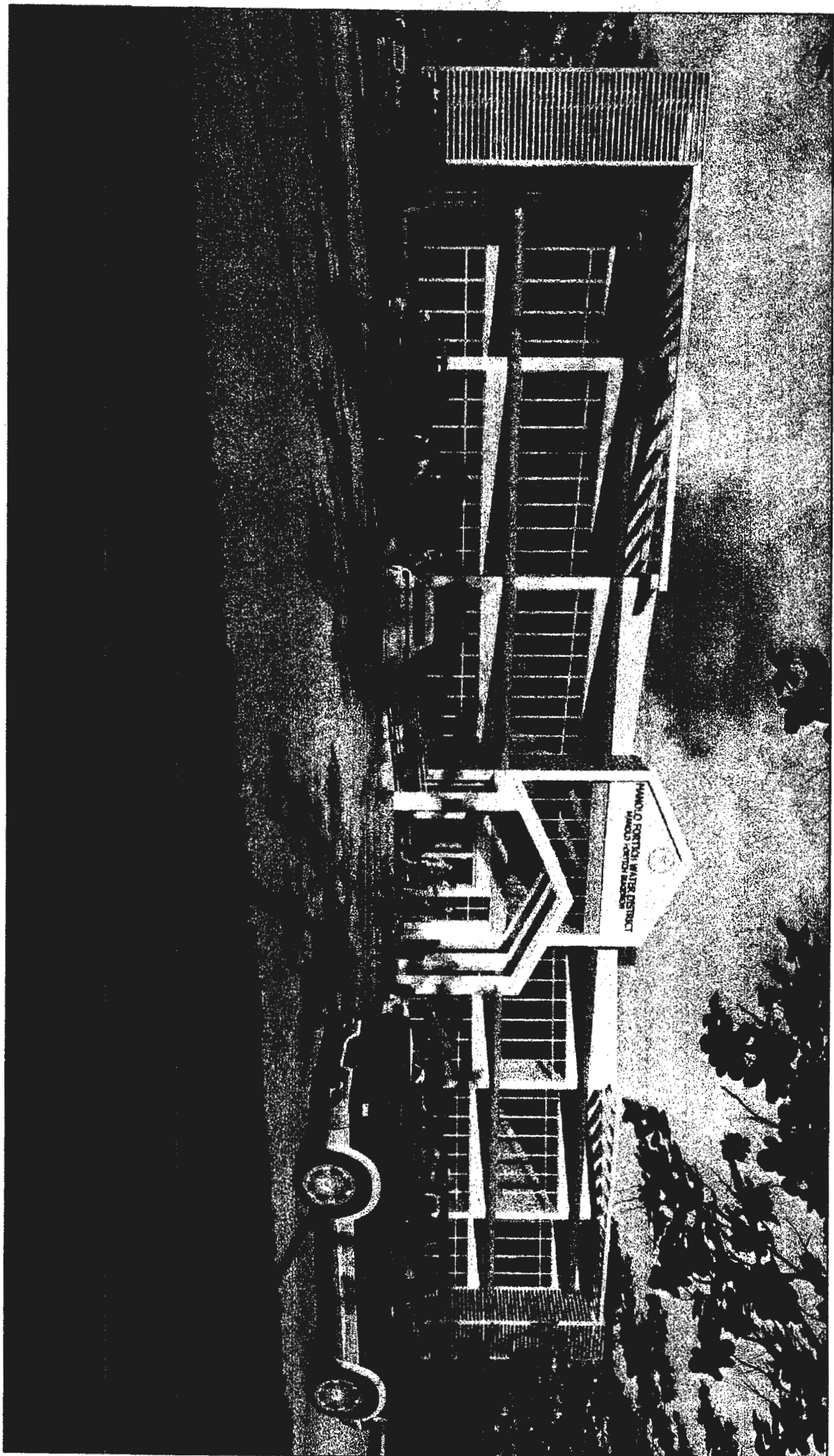
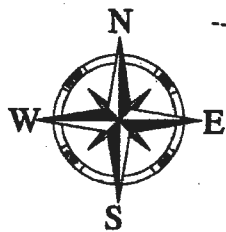


P
E
R
S
P
E
C
T
I
V
E

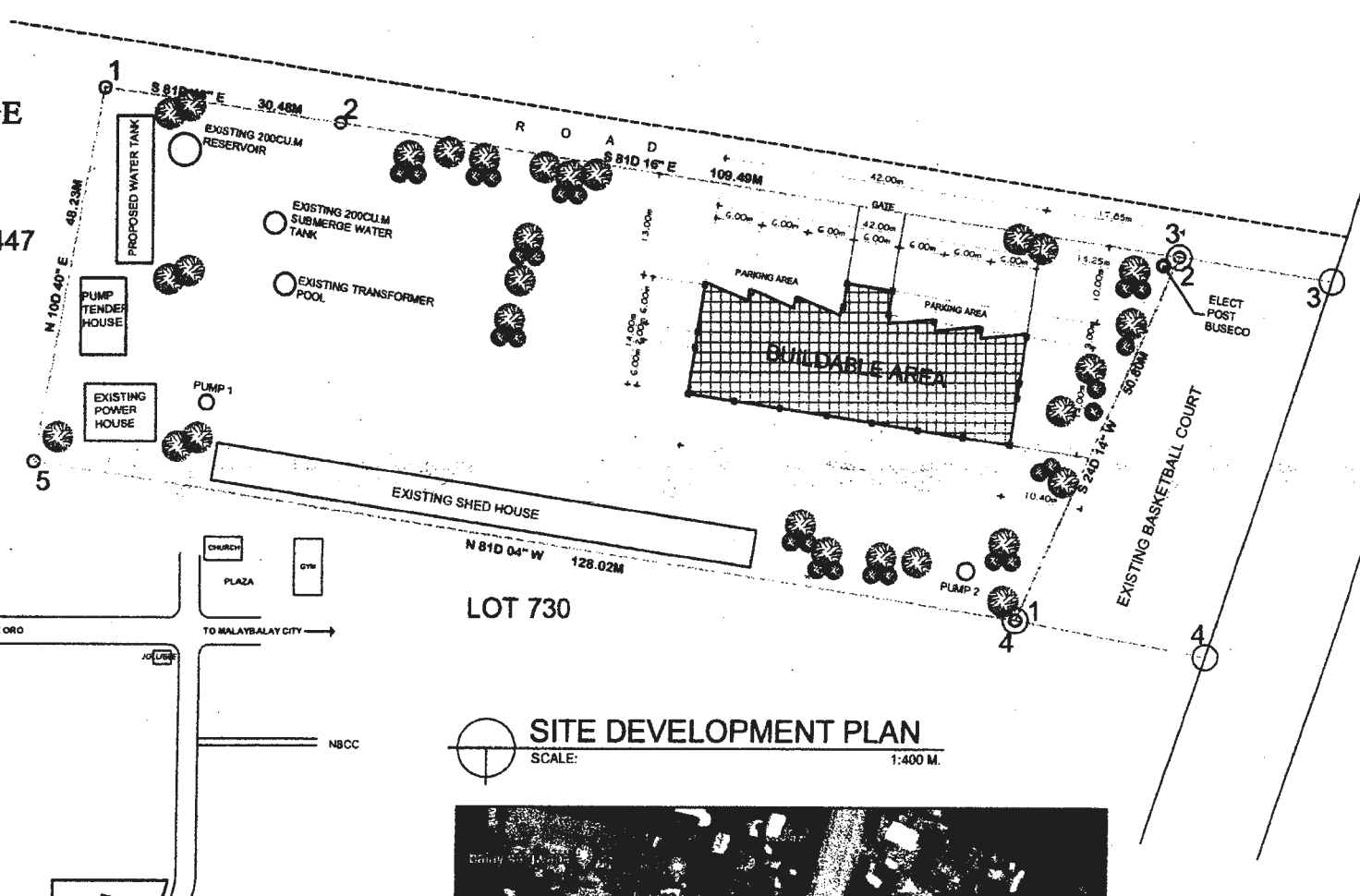


Revised as of 1/1/1960

A-01



LOT 447

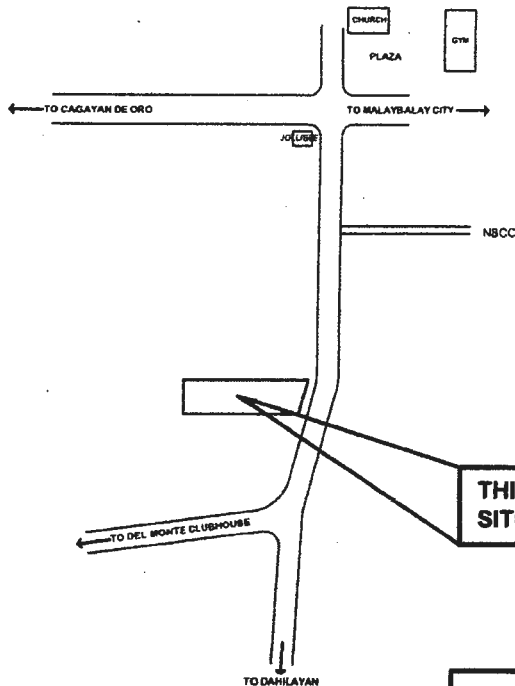


LOT 730

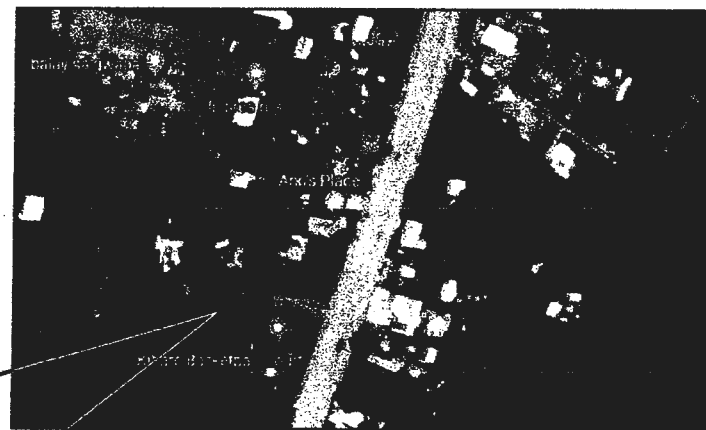


SITE DEVELOPMENT PLAN

SCALE: 1:400 M.



LOCATION MAP



SITE MAP



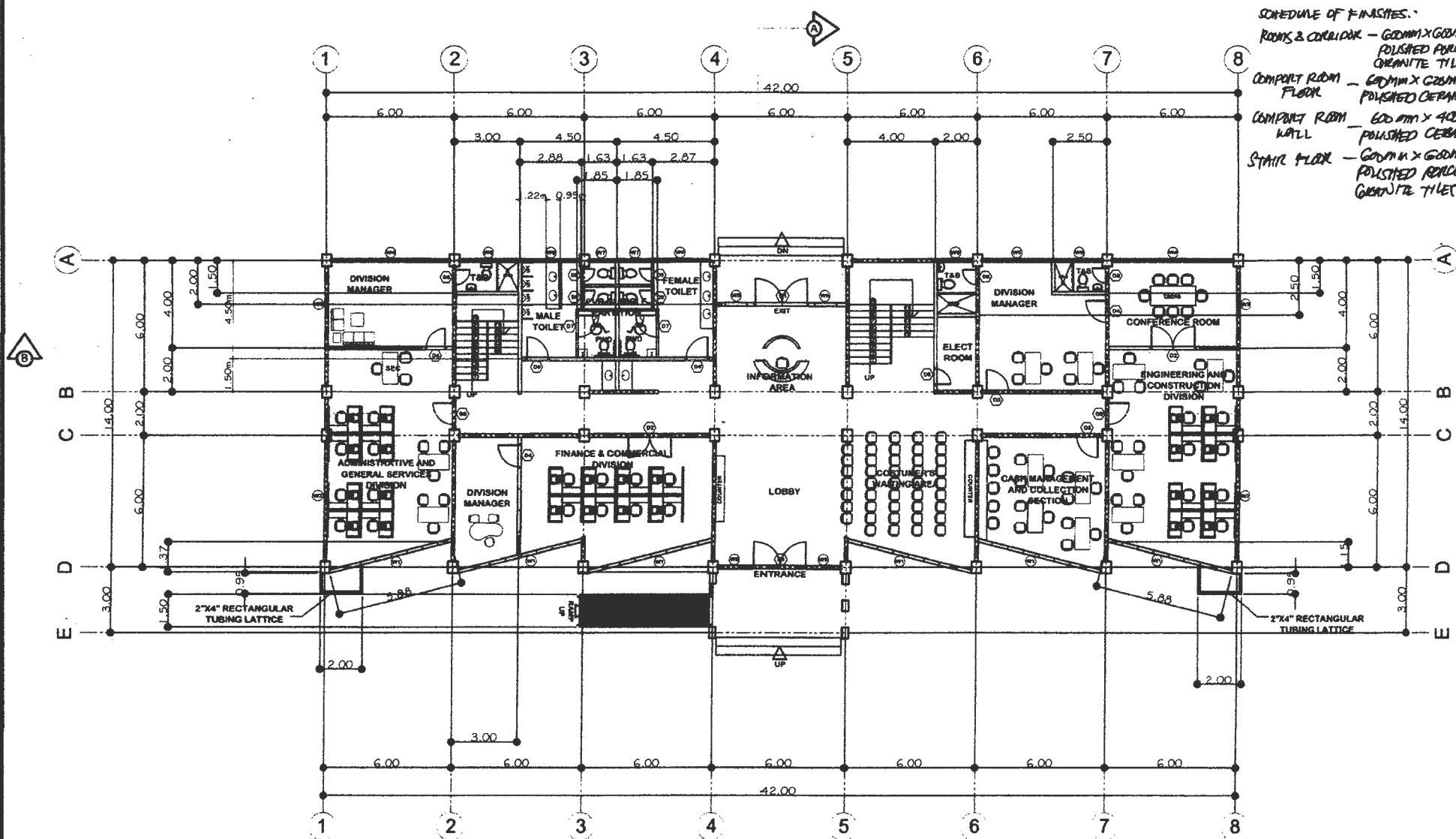
LOT DESCRIPTION

LOT 1353-C-7-A, Psd-10-092192

1-2	S 81° 48' E	30.48M
2-3	S 81° 16' E	109.49M
3-4	S 24° 14' W	50.80M
4-5	N 81° 04' W	128.02M
5-1	N 10° 40' E	48.23M

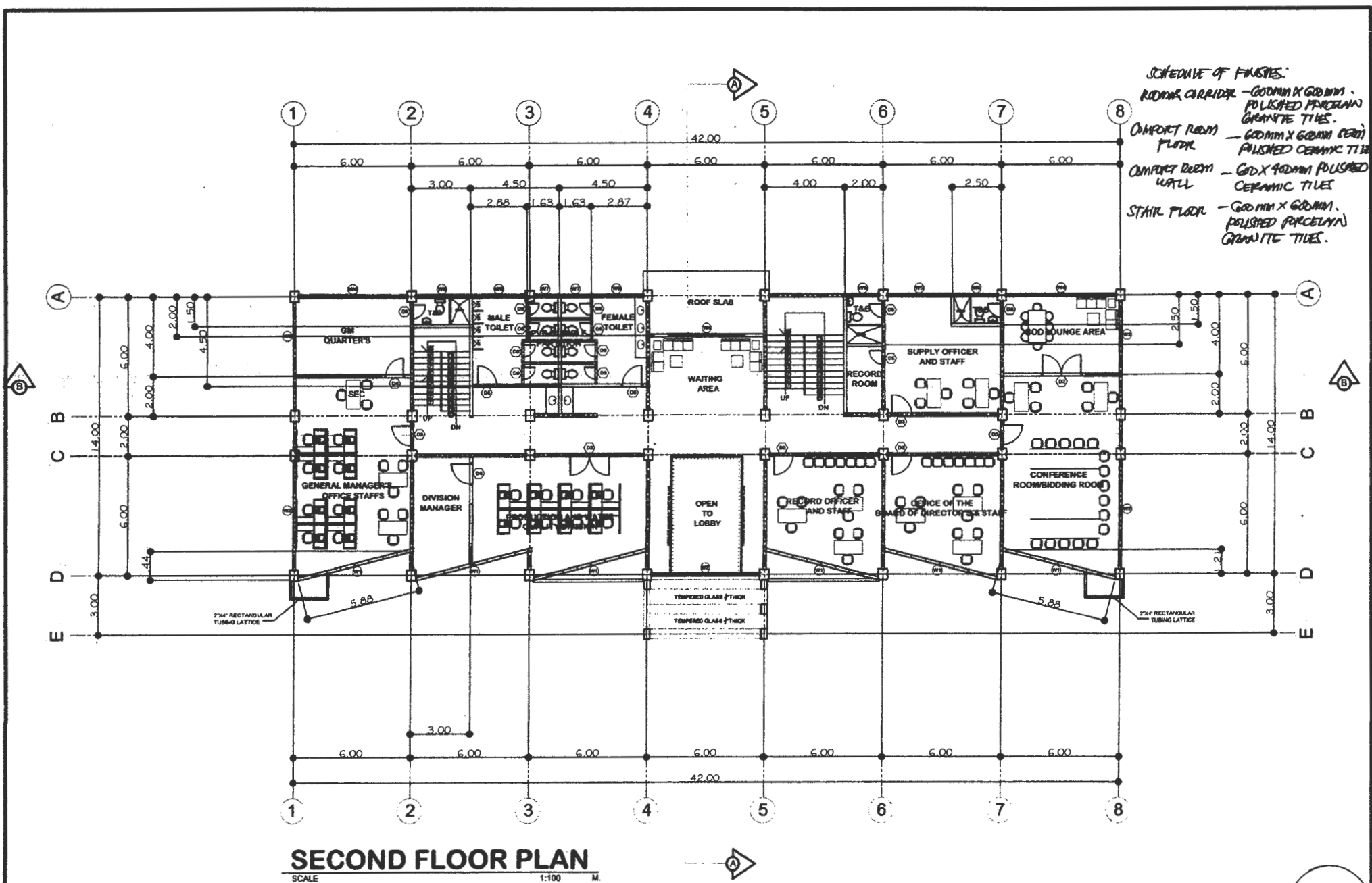
G-01

SCHEDULE OF FINISHES:
 ROOMS & CORRIDOR - 600MM X 600MM
 POLISHED PORCELAIN
 GRANITE TILES.
 COMFORT ROOM - 600MM X 600MM SEMI
 POLISHED CERAMIC TILES
 COMFORT ROOM
 WALL - 600MM X 400MM
 POLISHED CERAMIC TILES
 STAIR FLOOR - 600MM X 600MM,
 POLISHED PORCELAIN
 GRANITE TILE.

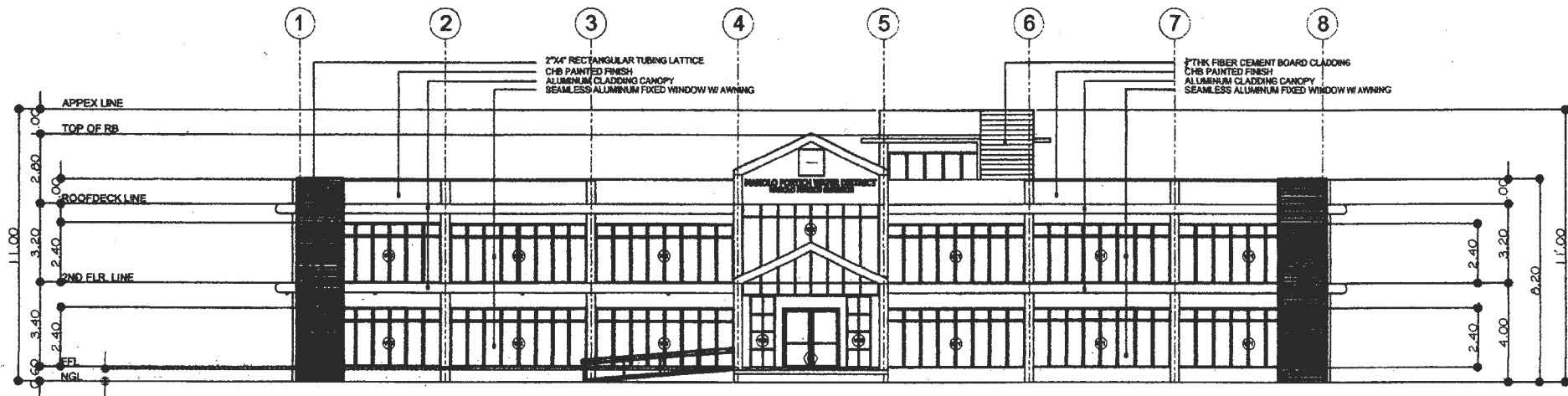


GROUND FLOOR PLAN
 SCALE 1:100 M.

SCHEDULE OF FINISHES:
 ROOMS CORRIDOR - 600MM X 600MM POLISHED PORCELAIN GRANITE TILES.
 CONFORT ROOM FLOOR - 600MM X 600MM CERAMIC TILES.
 CONFORT ROOM WALL - 600 X 400MM POLISHED CERAMIC TILES.
 STAIR FLOOR - 600MM X 600MM POLISHED PORCELAIN GRANITE TILES.

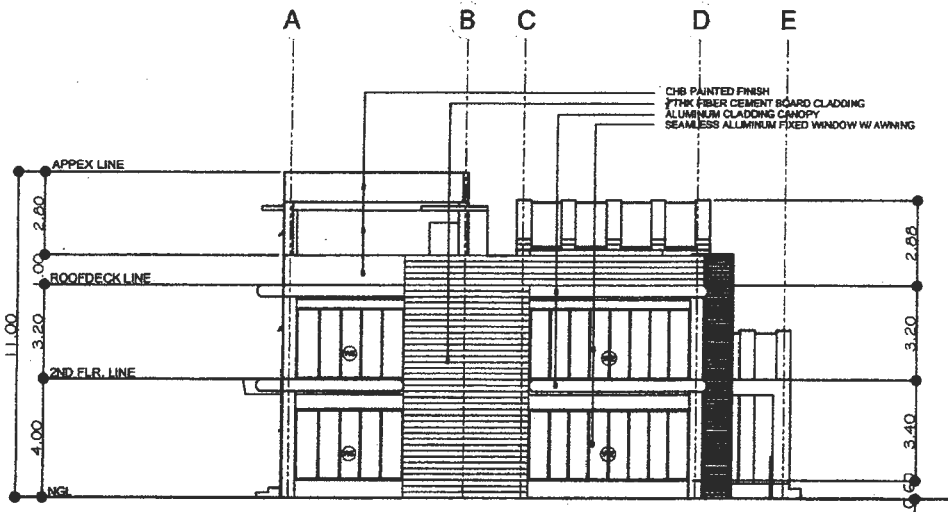


SECOND FLOOR PLAN
 SCALE 1:100 M.



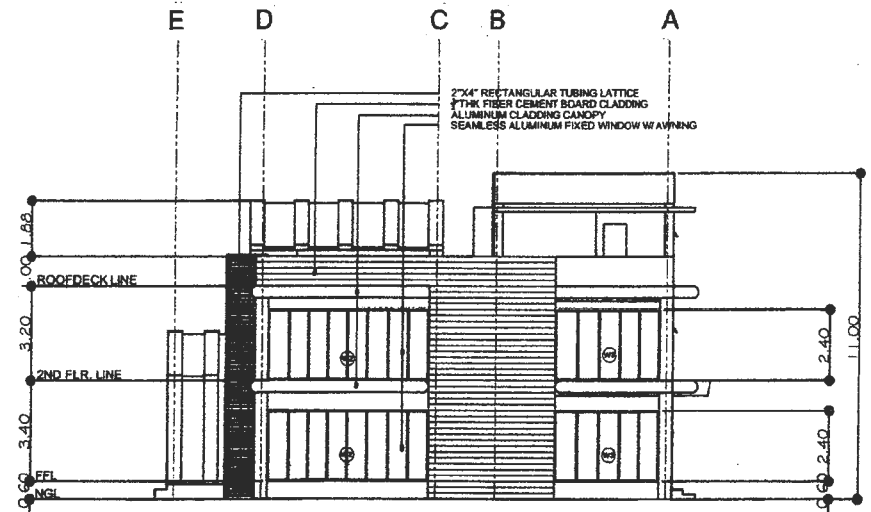
FRONT ELEVATION

SCALE 1:100 M.



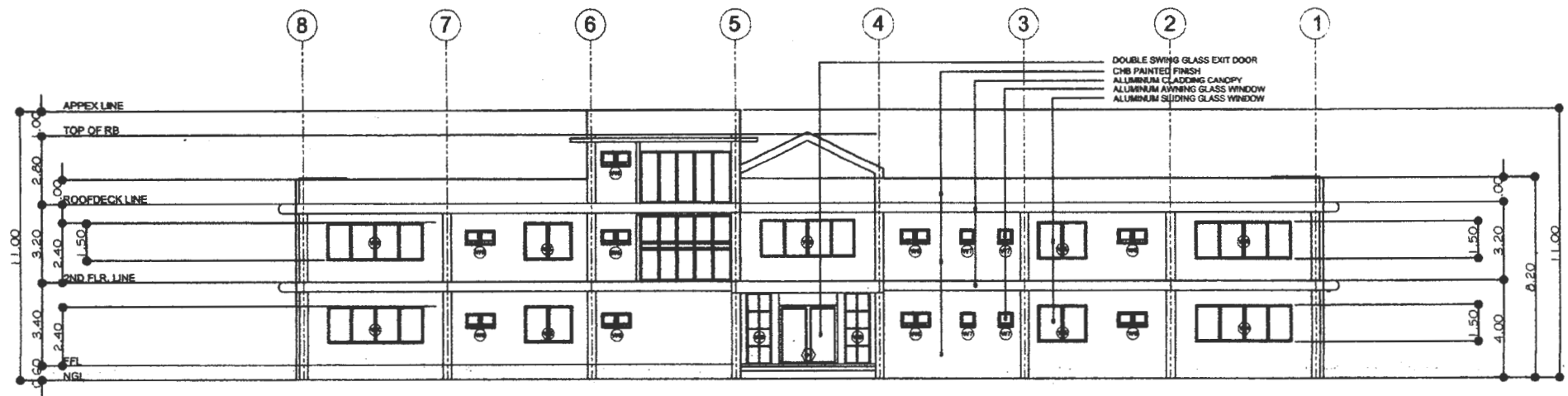
LEFT SIDE ELEVATION

SCALE 1:100 M.



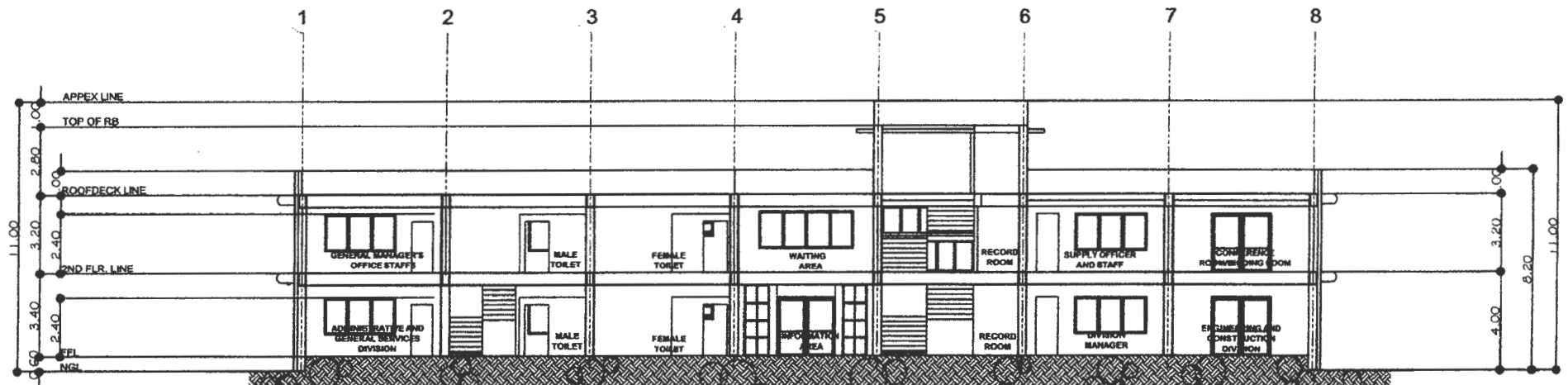
RIGHT SIDE ELEVATION

SCALE 1:100 M.



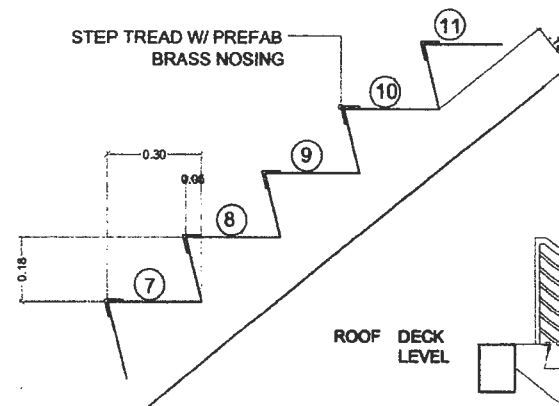
REAR ELEVATION

SCALE 1:100 M.

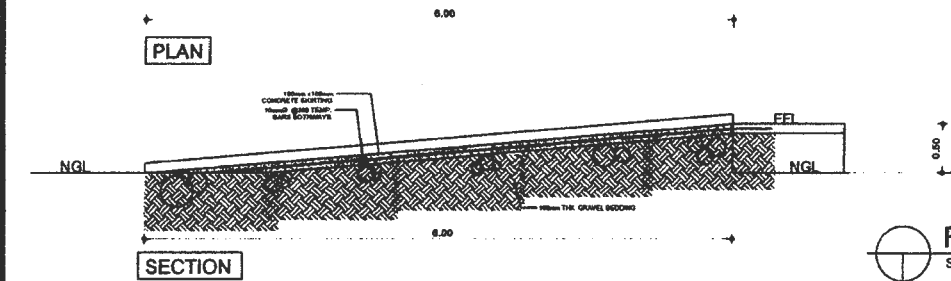


LONGITUDINAL SECTION

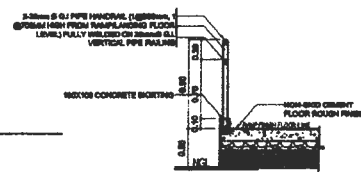
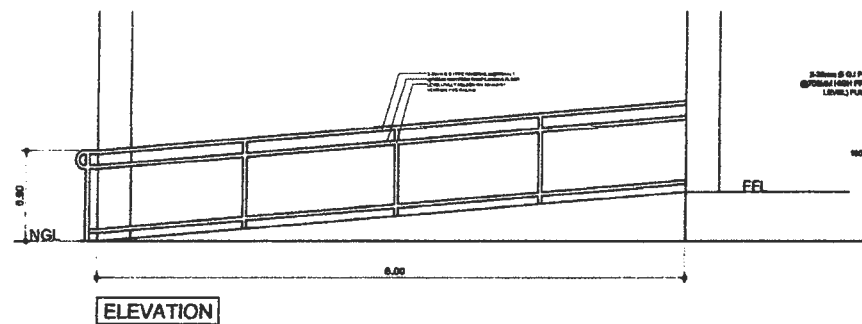
SCALE 1:100 M.



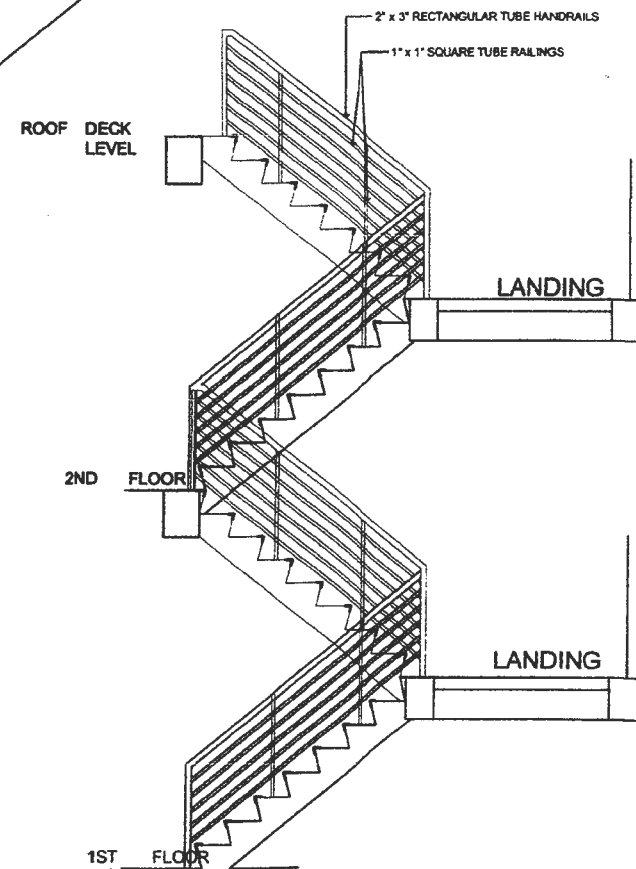
BLOW-UP DETAIL "B"
SCALE 120 M



 **RAMP DETAILS**
SCALE: 1:50 MTRS.



SECTION



ELEVATION

STRUCTURAL NOTES

General Notes:

1. GENERAL

1.1 REFERENCE TO OTHER DRAWINGS

SEE ARCHITECTURAL DRAWING AND OTHER RELEVANT DRAWINGS FOR KINDS OF FLOOR FINISHES, OPENINGS IN WALLS AND SLABS, INTERIOR PARTITIONS, LOCATION OF CHB WALLS, ETC.

1.2 DIMENSIONS

- DIMENSIONS SHOWN ARE IN MILLIMETERS UNLESS OTHERWISE NOTED
- IN THE INTERPRETATION OF THESE DRAWINGS, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES OR SIZE SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.

1.3 DISCREPANCIES

- THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS TO THE ARCHITECTURAL DRAWINGS IN REFERENCE TO THE LAYOUT. DIMENSIONS AND ELEVATIONS SHALL BE CONSULTED TO THE DESIGN ENGINEER IN CASE OF DISCREPANCIES IN THE ISSUED DRAWINGS.

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE AND SHALL NOTIFY THE ENGINEER OF DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND OTHER INFORMATION SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH THE WORK. THIS SHALL INCLUDE THE LOCATION AND DIMENSIONS OF GROOVES, REGLETS, SLEEVES, CURVES, OPENINGS, EMBEDDED OR ATTACHED ITEMS, ETC.

1.4 CONSTRUCTION DRAWINGS

- ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTION OR DETAILS. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

- TYPICAL DETAILS AND GENERAL NOTES ON S-1 APPLY TO ALL PARTS OF THE JOB UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURES. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION UNLESS SO STATED. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PROTECT THE PERSONS DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND/OR THE ENGINEER OF ANY CONDITION WHICH IN HIS OPINION MIGHT DISTRESS THE STRUCTURE.

1.5 OTHERS

- CONSTRUCTION MATERIALS SHALL NOT BE STORED ON POURED FLOORS. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE SUB-CONTRACTORS ARE INFORMED AND DO NOT VIOLATE THIS IMPORTANT REQUIREMENT.

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TEMPORARY ERECTION BRACINGS AND SHORINGS FOR ALL THE STRUCTURAL MEMBERS AS REQUIRED FOR STABILITY DURING ALL PHASES OF THE CONSTRUCTION.

2. STANDARDS AND REFERENCES

THE FOLLOWING SHALL GOVERN THE DESIGN, FABRICATION AND CONSTRUCTION OF THE PROJECT.

- 2.1 AMERICAN CONCRETE INSTITUTE (ACI)
PUBLICATION A318-89 BUILDING CODE
REQUIREMENTS FOR REINFORCED CONCRETE
- 2.2 AMERICAN INSTITUTE OF STEEL CONSTRUCTION
(AISC PUBLICATION) MANUAL OF STEEL CONSTRUCTION
EIGHT EDITION
- 2.3 NATIONAL STRUCTURAL CODE OF THE PHILIPPINES
(NSCP) VOL. 2, 2010 EDITION
- 2.4 UNIFORM BUILDING CODE

SPECIAL PROVISION:

ALL STRUCTURAL ELEMENT MUST BE CHECKED BY THE STRUCTURAL DESIGN ENGINEER
THE CONTRACTOR MUST SECURE POURING REQUEST PERMIT PRIOR TO THE POURING ACTIVITY
ONLY THE APPROVED QUANTITY BY THE DESIGNER WILL BE PERMITTED FOR CONCRETE POURING
ALL CONCRETE ACTIVITIES MUST CONFORM WITH THE CONCRETE CONSTRUCTION HANDBOOK

3. BASIC DESIGN LOADS

DESIGN LOADINGS:

DEADLOAD (DL)

ROOFING:

0.14 KPa = WL of Roof Covering of Roof Surface

BEAMS/COLUMNS:

23.54 KPa/m² = Selfweight

3.11 KPa = 150mm CHB Wall 2 faces plastered

2.44 KPa = 100mm CHB Wall 2 faces plastered

0.15 KPa = Ceiling WL

0.10 KPa = EXTERIOR PLUMBING UNITS

0.14 KPa = STEELDECK

LIVE LOADS (LL)

0.80 KPa = Roofing Load

2.40 KPa = Office floor load

4.80 KPa = Hallway floor load

2.40 KPa = C.R. floor load

4.80 KPa = Rooftop floor load

2.90 KPa = Balcony floor load

WIND LOAD (WL)

$p = q(GC_p) - (GC_s)$

P = BASIC DESIGN WIND PRESSURE

GC = Product of equivalent external pressure coefficient and gust effect factor

GC = Product of internal pressure coefficient and gust effect factor

q = velocity pressure

270 kph = Wind Velocity

Exposure Category C

Building Category Type IV

EARTHQUAKE LOAD

DESIGN BASE SHEAR, $V = \frac{C_w W}{R}$ (W)

Where:

z = SEISMIC ZONE FACTOR

I = IMPORTANCE FACTOR, 1.00

R = numerical coefficient representative of the inherent overstrength and global ductility

W = TOTAL SEISMIC DEAD LOAD

C = SEISMIC COEFFICIENT

S = Soil profile type

T = elastic fundamental period of vibration

N_e = 1.50

N_v = 2.00

4. MATERIALS

4.1 CONCRETE

4.1.1 DESIGN DRAWINGS

- CONCRETE SHALL DEVELOP A MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS FOR:

- a. SLAB ON FILL = 21 MPa (3000 psi)
- b. FOOTING, COLUMNS, SHEAR WALLS = 20.7 MPa (3000 psi)
- c. FLOOR SLABS, BEAMS & GIRDERS = 20.7 MPa (3000 psi)
- d. CANOPIES, GUTTERS, PARAPET WALLS & OTHER STRUCT. ELEM. = 20.7 MPa (3000 psi)
- e. LEAN CONCRETE = 1500 psi

- PLACE SHORT SPAN BARS IN BOTTOM LAYER FOR TWO WAY SLABS.

- ALL CONCRETE SHALL BE DEPOSITED, VIBRATED AND CURED IN ACCORDANCE WITH ACI 318-89.

- FIRE PROOFING THICKNESS SHALL BE AT LEAST 20MM FOR SLABS AND JOISTS, 30MM FOR BEAMS, GIRDERS AND COLUMNS.

- BEFORE CONCRETE IS POURED, CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, ETC., RELATING TO THE WORKS AT LEAST 4 DAYS BEFORE THE POURING OF CONCRETE.

- CONCRETE POURING PERMIT SHOULD BE SECURED AT LEAST 4 DAYS BEFORE THE POURING ACTIVITY

- CONCRETE COVER REINFORCING BARS SHALL BE AS FOLLOWS:

- a. FOOTING & BOTTOM OF FOOTING THE BEAMS = 75mm (CAST AGAINST EARTH)

4.1.2 WORKING DRAWINGS

- PROVIDE ADEQUATE TIES FOR ALL STEEL BARS AND STIRRUPS IN SLABS AND BEAMS.

ALL REINFORCING STEEL IN SLABS AND BEAMS SHALL BE PLACED AT CORRECT

DISTANCE FROM THE FORMS BY ADEQUATE CONCRETE BLOCKS, STEEL CHAIRS, OR

TIES IN ACCORDANCE WITH THE LATEST ACI CODE

- PROVIDE HEADER BARS IN BOTTOM OF SLAB IN FRONT OF ALL OPENINGS AND

CASES FOR ALL BEARING WALLS UNLESS OTHERWISE NOTED ON THE PLAN.

- PROVIDE LONGITUDINAL OR TEMPERATURE REINFORCEMENT IN SOLID SLABS IN

ACCORDANCE WITH THE ACI CODE

4.1.3 REINFORCING BARS

- UNLESS OTHERWISE SPECIFIED ON PLANS, ALL REINFORCING BARS SHALL BE

DEFORMED WITH A MINIMUM YIELD STRENGTH OF $F_y = 414$ MPa FOR 20mm DIA. ABOVE

AND $F_y = 275$ MPa FOR 16mm dia. & below (UNLESS OTHERWISE SPECIFIED ON PLANS)

- ALL REINFORCING BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER DELETERIOUS

MATERIALS WHICH TEND TO IMPAIR BOND.

- ALL REINFORCING BARS SHALL BE ACCURATELY AND SECURELY PLACED BEFORE

POURING CONCRETE OR APPLYING MORTAR OR GROUT.

- LAPPED SPICES SHALL BE STAGGERED WHERE POSSIBLE AT 30% OF THE TOTAL

NUMBER OF VERTICAL BARS ON EVERY COLUMN.

- UNLESS INDICATED OTHERWISE, SPlicing OF THE REINFORCEMENTS SHALL BE IN

ACCORDANCE WITH ACI 318. MINIMUM LAP SPICE SHALL BE 40 BAR DIAMETER BUT

NOT LESS THAN 1000mm.

- PROVIDE 100% CONTINUITY OVER SUPPORTS FOR ALL CONTINUOUS SLABS, BEAMS AND

JOISTS UNLESS OTHERWISE NOTED.

- UNLESS OTHERWISE SHOWN ON PLANS, SPICES SHALL BE AS FOLLOWS:

- BEAMS AND FOOTINGS THE BEAMS

TOP AND BOTTOM BARS SHALL NOT BE SPICED WITHIN A DISTANCE OF TWICE THE

MEMBER DEPTH FROM THE FACE OF THE COLUMN. AT LEAST TWO EXTRA STIRRUPS-TIES

SHALL BE PROVIDED AT ALL LAP SPICES. THE SPICE LENGTH SHALL NOT BE LESS THAN 1.3 x

THE DEVELOPMENT LENGTH (LD) IN ITEM NO. 4.1.4 BELOW, BUT NOT LESS THAN 300mm.

- COLUMNS

SPICES WHEN PERMITTED SHALL BE MADE JUST ABOVE EACH FLOOR OF THE COLUMN

HEIGHT AND THE LAP SPICE SHALL NOT BE LESS THAN 40 BAR DIAMETER OR 1000mm

WHICHEVER IS GREATER. THE USE OF APPROVED MECHANICAL DEVICES MAY BE

PERMITTED PROVIDED THAT NOT MORE THAN ALTERNATE BARS ARE SPICED AT ANY

LEVEL AND THE MINIMUM VERTICAL DISTANCE BETWEEN TWO ADJACENT BAR SPICES

SHALL BE 600mm. BUNDLED BARS CUT OFF POINTS MUST BE STAGGERED AT LEAST 400mm.

- CONCRETE MASONRY WALLS

VERTICAL BARS SHALL BE SPICED AT THE TOP OF WALL FOOTING OR FOOTING TIE

BEAM AND THE BOTTOM OF RC LINTEL BEAM OR BEAMS. UNLESS INDICATE

OTHERWISE, ALL BEAMS TERMINATING AT THE COLUMN SHALL HAVE TOP AND BOTTOM

BARs EXTENDING TO THE FAR FACE OF THE COLUMN, TERMINATING IN A 90° HOOK.

LENGTH OF ANCHORAGE SHALL NOT BE LESS THAN 600mm. SHOP DRAWINGS FOR

REINFORCEMENT SHALL BE SUBMITTED FOR APPROVAL TO THE ENGINEER PRIOR TO

FABRICATION.

4.1.4 DEVELOPMENT LENGTH OF REINFORCING STEEL BARS ARE AS FOLLOWS:

STEEL BARS

150mm

10mm DIA.

12mm DIA.

16mm DIA.

20mm DIA.

25mm DIA.

28mm DIA.

30mm DIA.

32mm DIA.

36mm DIA.

DEVELOPMENT LENGTH (LD)

150mm

200mm

250mm

450mm

600mm

650mm

700mm

750mm

800mm

4.2 STRUCTURAL STEEL/BOLTS/WELDS

- ALL STRUCTURAL STEEL SHALL HAVE A MINIMUM YIELD STRENGTH $F_y = 275$ MPa

- NO STEEL SHALL BE FABRICATED OR ERECTED UNTIL SHOP DRAWINGS HAVE BEEN APPROVED BY THE STRUCTURAL ENGINEER AND SHALL CONFORM TO THE CODE OF STANDARD PRACTICE AS AMENDED TO DATE.

- ALL SHOP AND FIELD WELDING SHALL BE IN ACCORDANCE WITH AWS D.1.1 AND

PERFORMED BY QUALIFIED WELDERS.

- UNLESS INDICATED OTHERWISE, WELDING ELECTRODES SHALL BE E60xx. MINIMUM

THICKNESS OF WELD SHALL BE 6mm.

- BOLTS FOR STRUCTURAL STEEL MEMBER CONNECTION SHALL CONFORM TO ASTM

A325 SPECIFICATIONS.

4.3 CONCRETE MASONRY UNITS

- CMU USED IN THIS WORK SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE

STRENGTH OF 500 psi.

- UNLESS OTHERWISE INDICATED, ONLY CELLS CONTAINING REINFORCING BARS SHALL

BE FILLED WITH GROUT. ALL CELLS BELOW GROUND LINE SHALL BE SOLIDLY FILLED

WITH GROUT. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 17.20

MPa (2500psi) AT 28 DAYS.

- OPENING FOR DOORS, WINDOWS AND OTHER GAPS ON CMU WALLS SHALL BE

PROVIDED WITH REINFORCED CONCRETE LINTEL BEAM AT EVERY 10 LAYERS OF CHB.

5. GRANULAR BASE

- THE GRANULAR BASE MATERIAL SHALL CONFORM TO AASHTO M 47 GRADING A.

- GRANULAR BASE SHALL BE PLACED IN THE POSITIONS OF THE REQUIRED THICKNESS

AS SHOWN ON THE DRAWINGS.

- WHEN THE REQUIRED THICKNESS IS MORE THAN 150mm, THE BASE MATERIAL SHALL BE

SPREADED AND COMPACTED INTO TWO OR MORE LAYERS OF APPROXIMATELY

EQUAL THICKNESS AND THE MAXIMUM COMPACTED THICKNESS OF ANY ONE LAYER

SHALL NOT EXCEED 150mm.

- COMPACTED DRY DENSITY OF EACH LAYER SHALL NOT BE LESS THAN 100% OF THE

MAXIMUM DRY DENSITY DETERMINED ACCORDING TO ASTM D1557.

6. FOUNDATIONS

- FOUNDATIONS ARE DESIGNED USING AN ASSUMED ALLOWABLE SOIL BEARING

CAPACITY OF 150 KPa AT DEPTHS INDICATED IN THE DRAWINGS. SOIL

INVESTIGATION SHALL BE CARRIED PRIOR TO CONSTRUCTION AND THE STRUCTURAL

ENGINEER SHALL BE FURNISHED A COPY OF THE SOIL'S REPORT. FOOTINGS SHALL BE

REDESIGNED IF ACTUAL ALLOWABLE SOIL BEARING CAPACITY IS LESS THAN THE

ASSUMED VALUE.

- SOIL BEARING CAPACITY SHALL BE INCREASED BY 33% FOR COMPACTED (D-1-W)

OR (D-1-W).

- BACKFILL SHALL BE PLACED IN 200mm LAYERS AND EACH LAYER SHALL BE

COMPACTED TO 95% MAXIMUM DRY DENSITY BEFORE SUBSEQUENT LAYERS ARE LAID.

- WHERE SOFT/LOOSE MATERIALS ARE ENCOUNTERED AT DEPTH OF FOOTING

EMBEDMENT INDICATED, EXCAVATE TO FIRM LAYER AND REPLACE LOOSE, SOFT

MATERIAL UNDERNEATH THE FOOTING. COMPACT SELECTED BACKFILL TO 95% OF

MAXIMUM DRY DENSITY (ASTM D1557).

- NO FOOTING SHALL REST ON FILL. FOOTING FOR CHB WALLS AND OTHER MINOR

STRUCTURES SHALL BE EMBEDDED AT LEAST 700mm FROM NATURAL GROUND.

7. CONSTRUCTION NOTES

7.1 NOTES ON CONCRETE WALLS

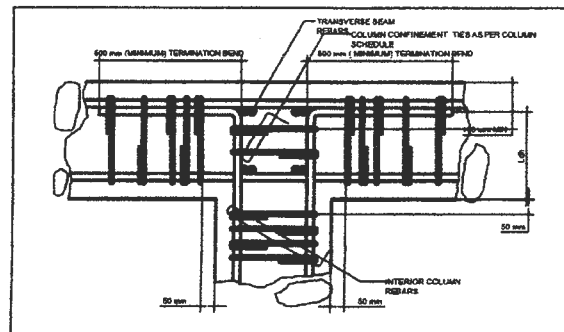
- ALL WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF WALL REINFORCEMENTS, UNLESS OTHERWISE INDICATED IN THE PLANS.

WALL THICKNESS	HORIZONTAL	VERTICAL	REMARKS
140	10mm @ 250mm O.C.	10mm @ 300mm O.C.	HOR. BARS AT CENTER VERT. BARS ARE STAGGERED OUTSIDE
125	10mm @ 250mm O.C.	10mm @ 250mm O.C.	HOR. BARS AT CENTER VERT. BARS ARE STAGGERED OUTSIDE
150	12mm @ 225mm O.C.	12mm @ 250mm O.C.	HOR. BARS AT CENTER VERT. BARS ARE STAGGERED OUTSIDE
175	12mm @ 200mm O.C.E.F.	12mm @ 230mm O.C.	HOR. BARS AT CENTER VERT. BARS ARE STAGGERED OUTSIDE
200	12mm @ 225mm O.C.E.F.	12mm @ 250mm O.C.E.F.	HOR. BARS AT CENTER VERT. BARS ARE STAGGERED OUTSIDE
300	12mm @ 200mm O.C.E.F.	12mm @ 250mm O.C.E.F.	BOTH FACES, HORIZONTAL SHALL BE OUTSIDE
250	12mm @ 150mm O.C.E.F.	12mm @ 250mm O.C.E.F.	BOTH FACES, HORIZONTAL SHALL BE OUTSIDE
400	12mm @ 200mm O.C.E.F.	12mm @ 250mm O.C.E.F.	BOTH FACES, HORIZONTAL SHALL BE OUTSIDE

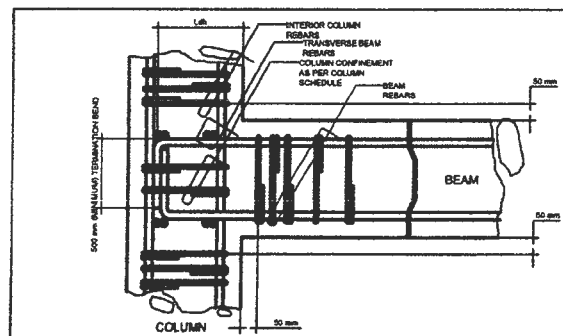
BEAMS					COLUMNS					FLOOR SLAB		NOTE: 1. MIN. DEVELOPMENT LENGTH OF REINFORCEMENT SHALL BE THE MINIMUM SPECIFIED IN DEVELOPMENT LENGTH APPROPRIATE FOR ACTIVE & PASSIVE REINFORCEMENT. (CHAPTER 17) SHALL BE USED UNLESS OTHERWISE SPECIFIED. 75mm Ø BARS FOR BEAMS SHALL NOT BE BUNDLED.
BAR SIZE	SINGLE & TWO (2) BAR BUNDLE		THREE (3) BAR BUNDLE		BAR SIZE	VERTICAL REINFORCEMENT		BAR SIZE	SINGLE & TWO (2) BAR BUNDLE			
	BOTTOM BARS	TOP BARS	BOTTOM BARS	TOP BARS		SINGLE & TWO (2) BAR BUNDLE	THREE (3) BAR BUNDLE					
16 mm Ø	600 mm	750 mm	800 mm	925 mm	20 mm Ø	1000 mm		16 mm Ø	400 mm			
20 mm Ø	750 mm	850 mm	900 mm	1200 mm	25 mm Ø	1500 mm		12 mm Ø	500 mm			
25 mm Ø	900 mm	1000 mm	1100 mm	1450 mm								

REMOVAL OF FORMS AND SHORING			CAMBER REQUIREMENT	
STRUCTURAL ELEMENTS	CLEAR SPAN BET. SUPPORTS	MINIMUM TIME PERIOD DAYS	ELEMENT	MINIMUM CAMBER
WALLS, COLUMNS, BEAMS, ORDER SHOES & SLAB ON CRIDGE		1	REINFORCED CONCRETE BEAMS	8 mm FOR EVERY 4.00 m SPAN
JOINT, BEAMS, & ORDER SUPPORT	UNDER 3.00 m	7	CANTILEVER REINFORCED CONCRETE BEAMS	18 mm FOR EVERY 3.00 m SPAN
	3.00 m TO 6.00 m	14		
	OVER 6.00 m	21		
ONE-WAY FLOOR SLABS	UNDER 3.00 m	4	REINFORCED CONCRETE SLAB	3 mm FOR EVERY 3.00 m SHORTER SPAN
	3.00 m TO 6.00 m	7		
	OVER 6.00 m	10		

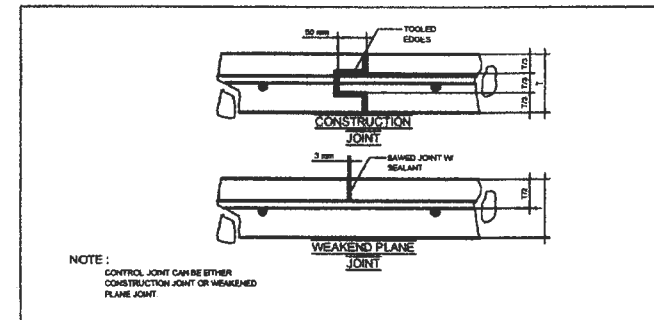
SPlicing REQUIREMENTS OF REINFORCING BARS "Ls" or "Ld"



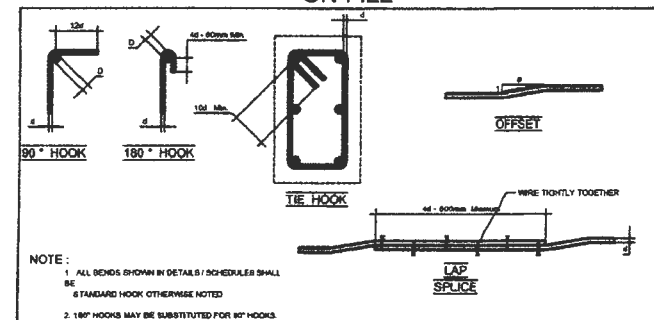
INTERIOR COLUMN TERMINATION BEND



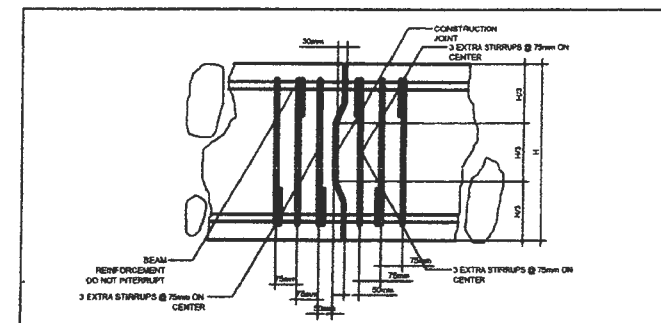
BEAM RE-BAR TERMINATION BEND

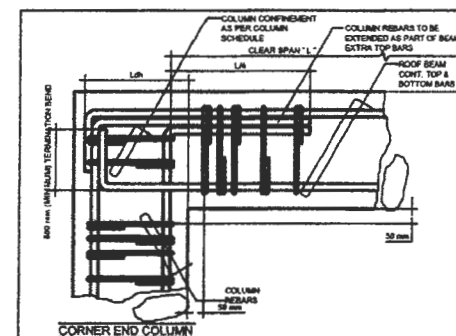
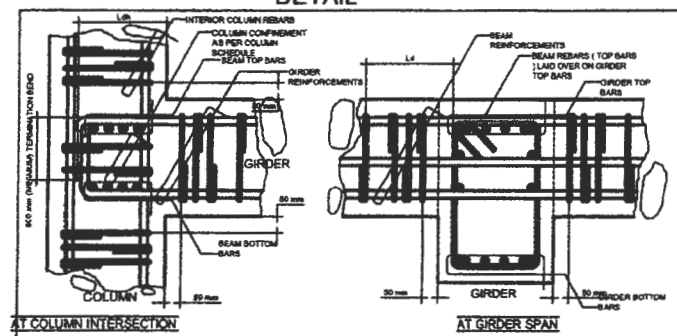
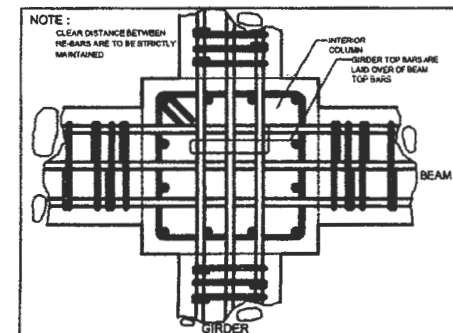
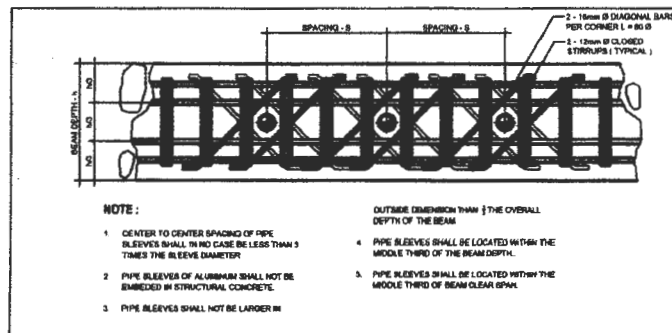
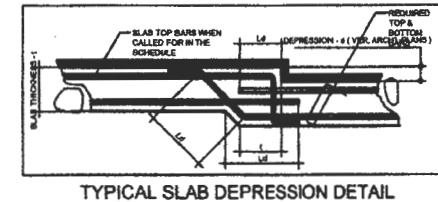
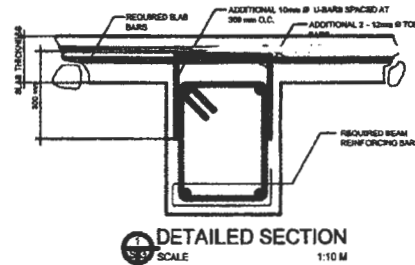
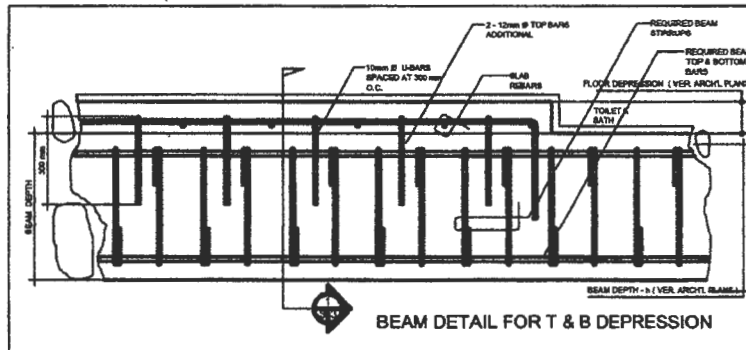


CONSTRUCTION JOINT FOR SLAB
ON-FILL



TYPICAL REINFORCEMENT DETAIL

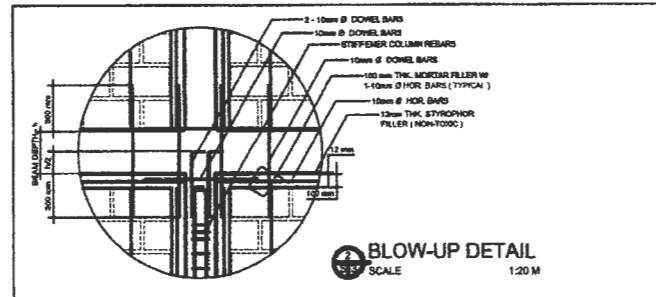




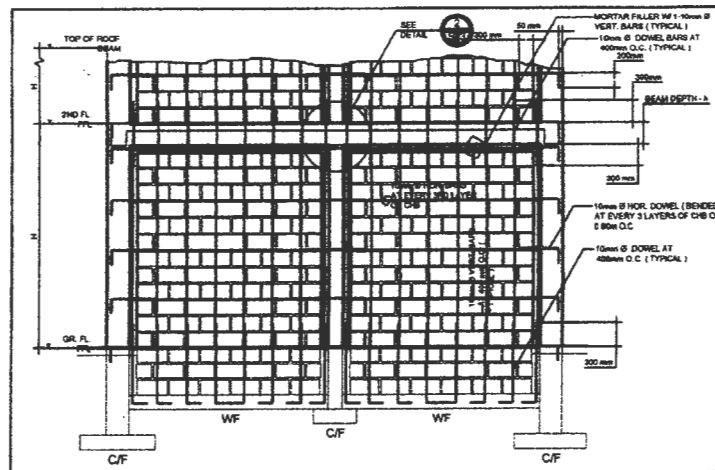
SCHEDULE OF MASONRY WORKS									
LINTEL BEAMS					MASONRY				
CHB WALL	9 (mm)	12 (mm)	15 (mm)	20 (mm)	STIRRUPS	HORIZONTAL BARS	VERTICAL BARS		
150	120	200	2 - 10mm @ 200	10mm @ 300	10mm @ 300	10mm @ 300	10mm @ 300	10mm @ 300	10mm @ 300
150	130	200	2 - 10mm @ 200	10mm @ 300	10mm @ 300	10mm @ 300	10mm @ 300	10mm @ 300	10mm @ 300
200	200	200	2 - 10mm @ 200	10mm @ 300	10mm @ 300	10mm @ 300	10mm @ 300	10mm @ 300	10mm @ 300

NOTE:

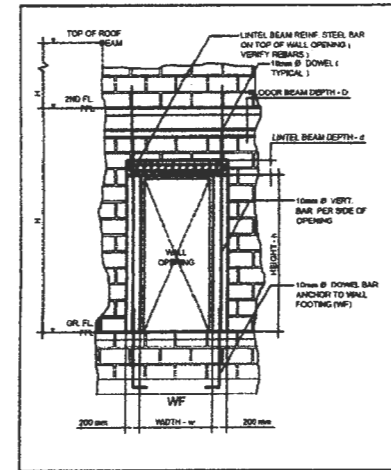
- REFER TO ARCHITECTURAL PLANS TO VERIFY LOCATIONS OF ALL CHB WALLS.
- REFER TO THICKNESS OF FINISHES TO ARCHITECTURAL PLANS.
- 12mm THICK GAP SHALL BE PROVIDED IN BETWEEN RILLS & COLUMNS, WALLS & BEAMS, WALLS & SLABS ON TOP.
- GLUCONE SEALANT SHALL BE PROVIDED FOR ALL EXTERNAL WALL (CHB). FOR INTERNAL WALLS, SEALANT NEED NOT BE PROVIDED.
- STRUCTURAL R.C. WALLS (i.e. WATER TANK, ETC.) SHALL NOT BE PROVIDED W/ 12mm THICK GAPS ALL AROUND.
- STRUCTURAL GAPS SHALL IN NO CASE BE COVERED W/ PLASTER.



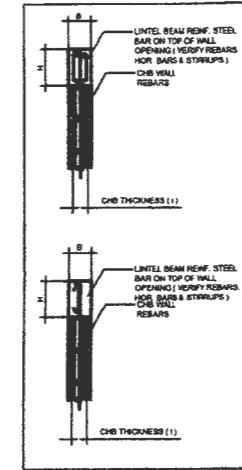
TOP ANCHORAGE OF LINTEL ACTING AS STIFFENER COLUMN



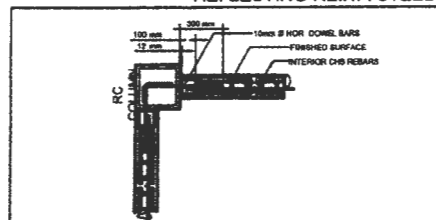
TYPICAL MASONRY ELEVATION W/ LINTEL BEAMS & STIFFENER COLUMNS REFLECTING REIN. STEEL BARS



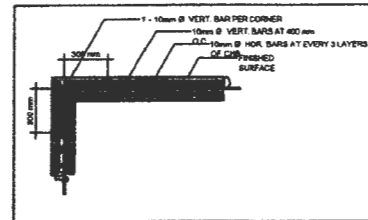
TYPICAL CHB WALL OPENING ELEVATION SHOWING STEEL REINFORCEMENTS



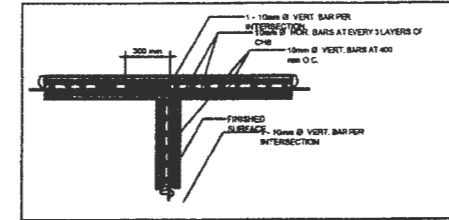
TYPICAL LINTEL BEAM DETAIL



CHB EXTERIOR WALL SIDE ANCHORAGE DETAIL



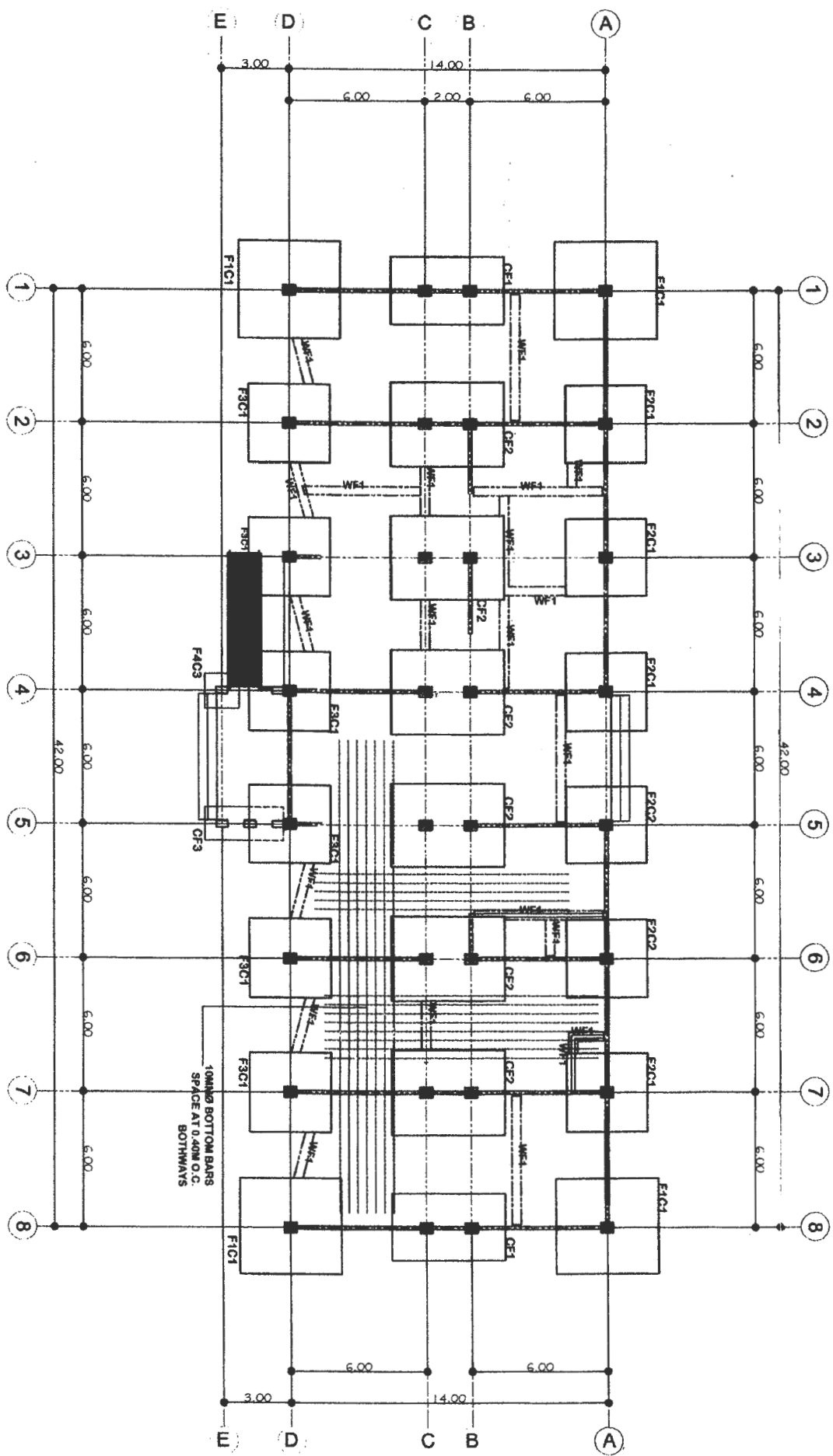
CORNER WALL DETAIL



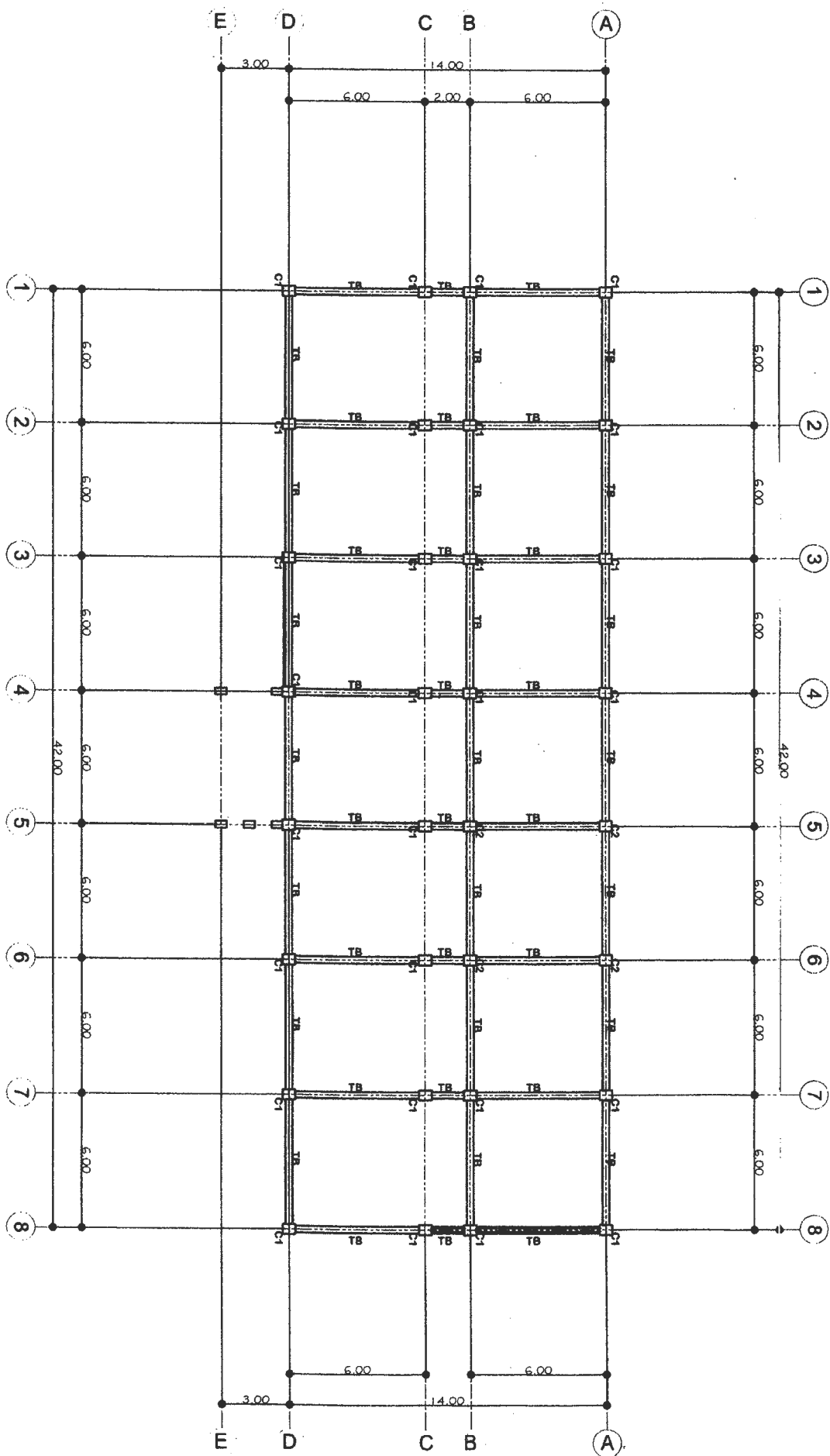
WALL INTERSECTION

FOUNDATION FLOOR PLAN

SCALE 1:100 M.



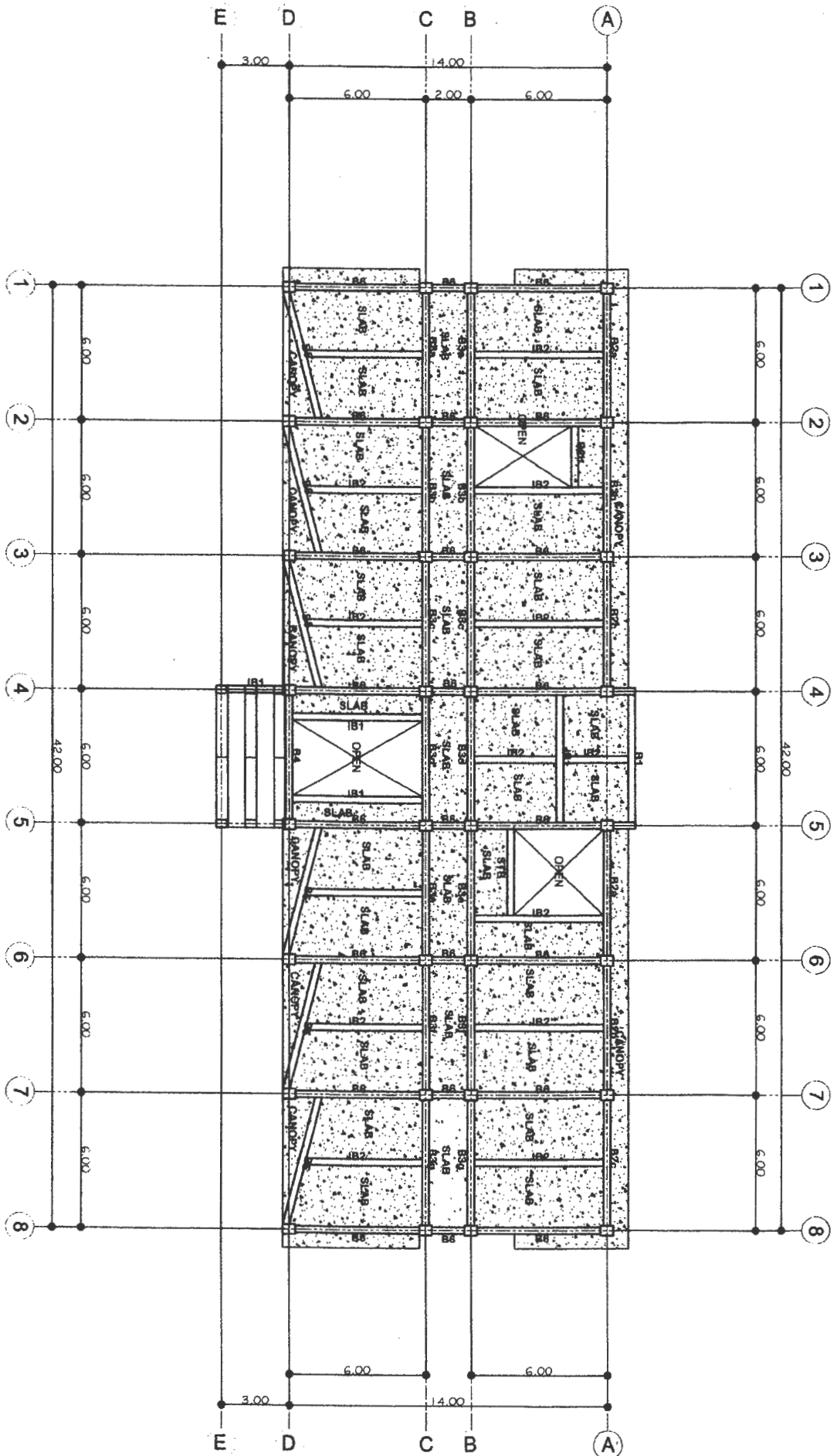
S-01

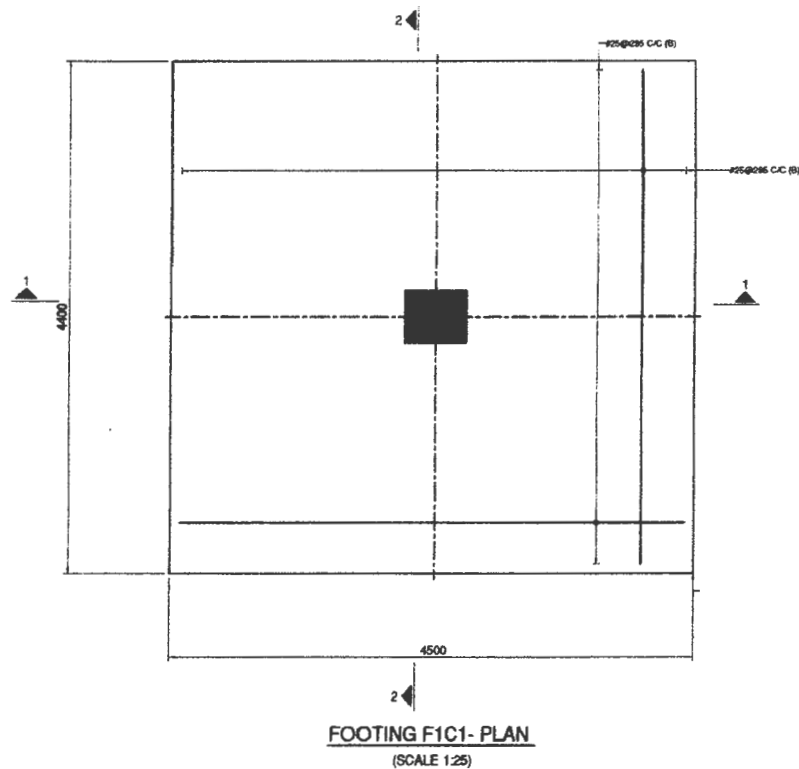
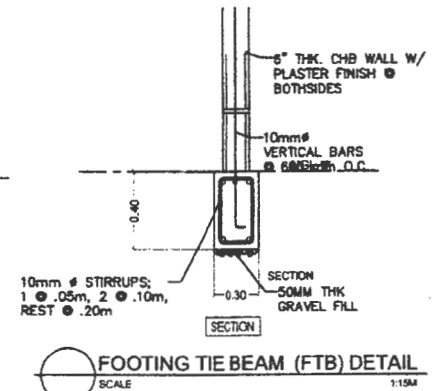
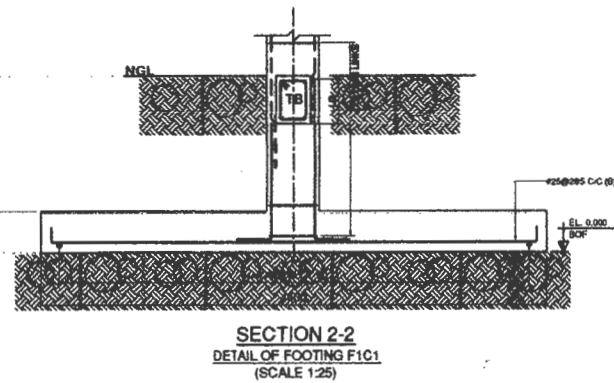
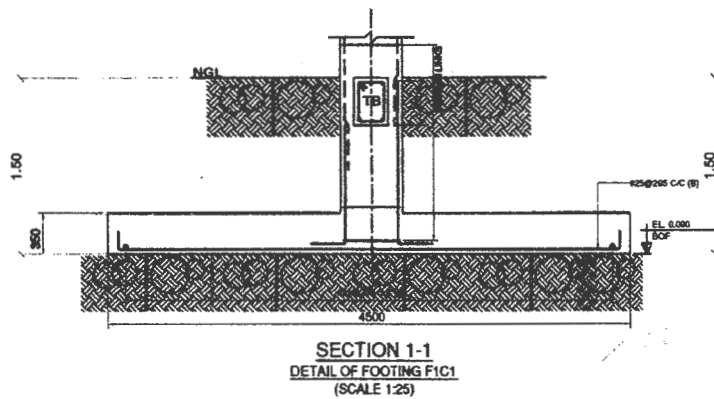


TIE BEAM LAY-OUT PLAN
SCALE 1:100 M.

SECOND FLOOR FRAMING PLAN

SCALE 1:100

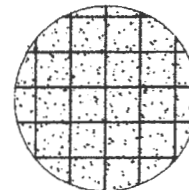




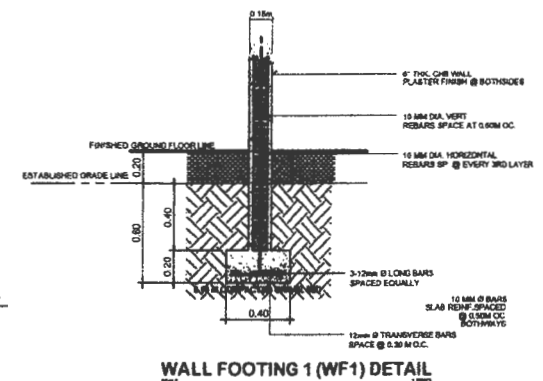
FOOTING SCHEDULE (C21:Fy415)

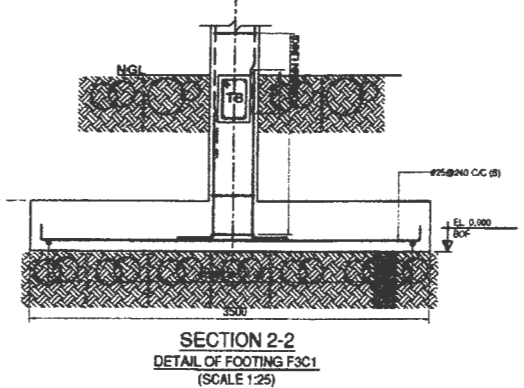
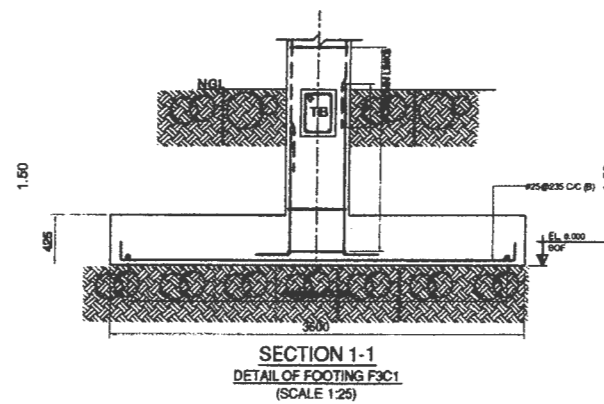
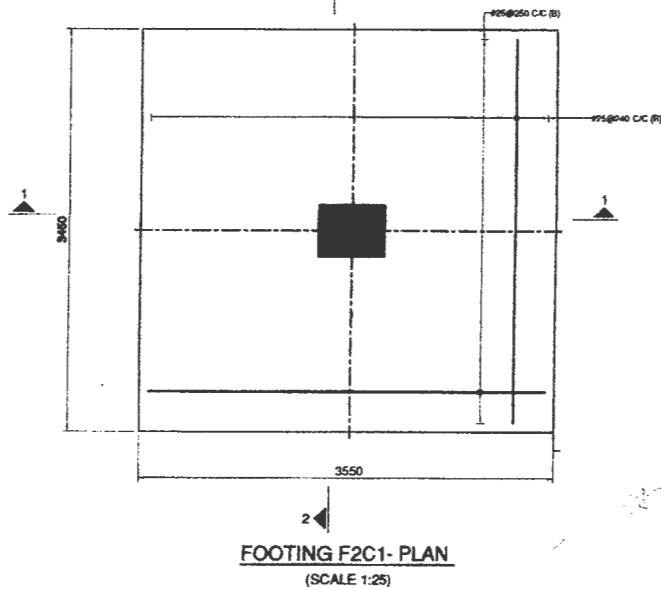
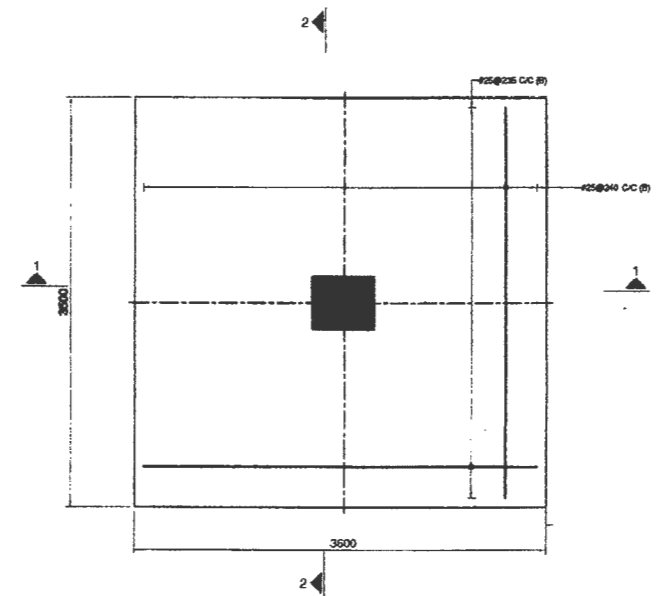
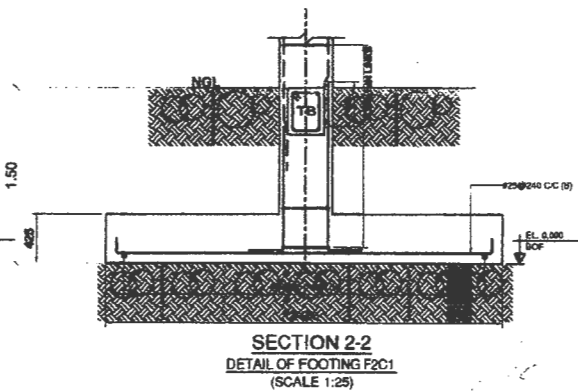
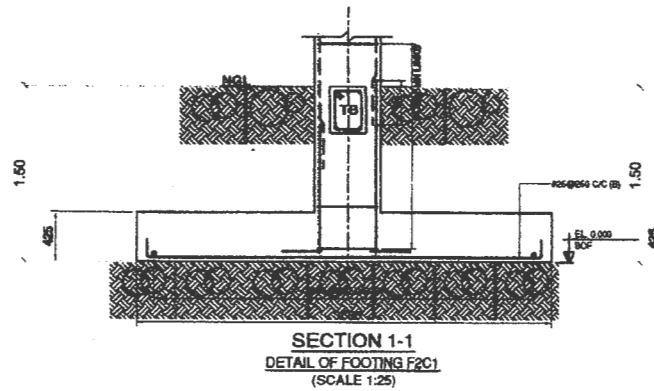
FOOTING NUMBERS	COLUMN NUMBERS	FOOTING TYPE	FOOTING DIMENSION					FOOTING REINFORCEMENT				REMARKS
			B/STEP	L	B	D1	D2	BOTTOM		TOP		
								ALONG B	ALONG L	ALONG B	ALONG L	
F1C1 ✓	C1	Pad	-	4500	4400	350	-	#25@285 C/C	#25@285 C/C			
F2C1 F2C2	C1,C2	Pad	-	3550	3450	425	-	#25@240 C/C	#25@260 C/C			
F3C1	C1	Pad	-	3600	3500	425	-	#25@240 C/C	#25@235 C/C			
CF1	C1	Combined	-	3050	5200	450	-	#25@240 C/C	#25@240 C/C			
CF2	C1	Combined	-	3750	5200	500	-	#25@240 C/C	#25@240 C/C			

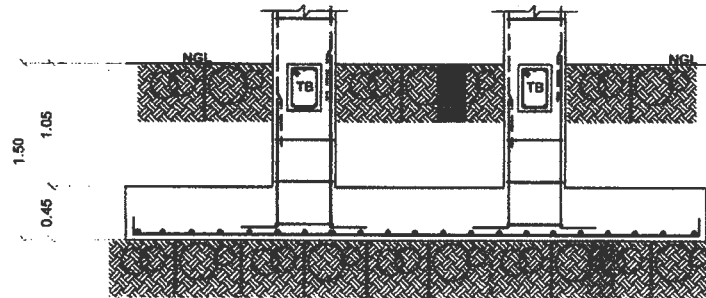
0.10m THK CONC. SLAB
-ON-GRADE W/ 10mm Ø
RSB REBAR AT EVERY
0.40m O.C. B.W. ON
50mm THK GRAVEL FILL



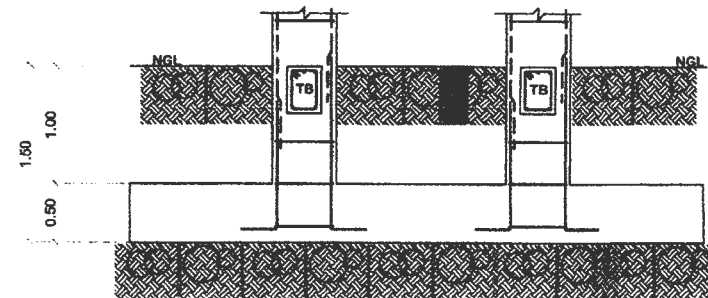
CONCRETE SLAB ON GRADE



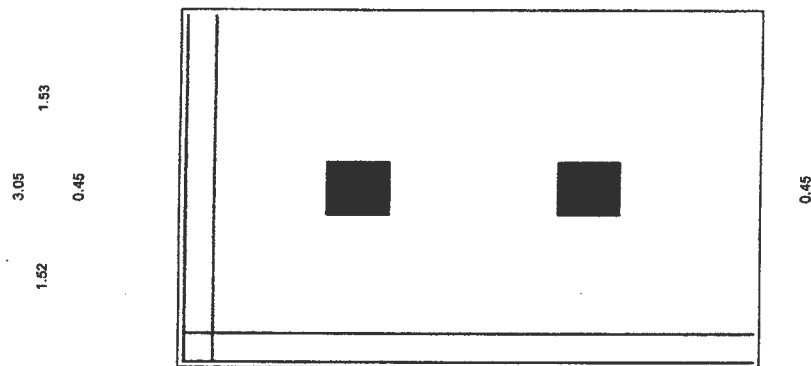




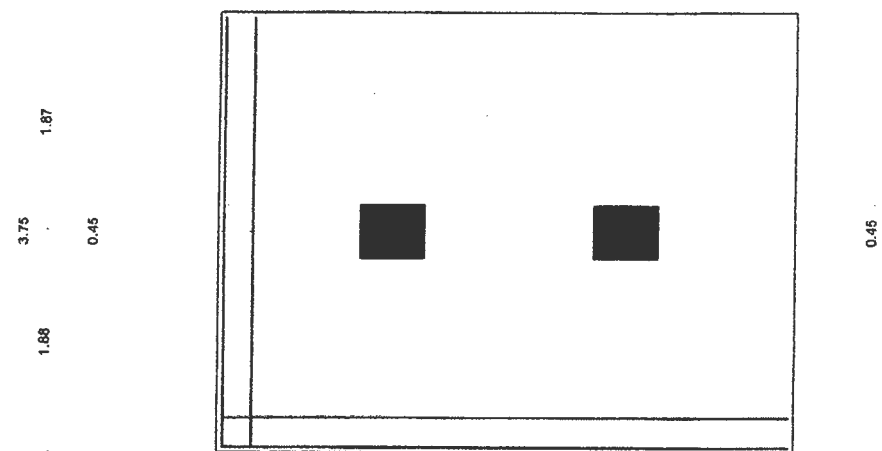
SECTION 1-1
DETAIL OF FOOTING CF1
(SCALE 1:25)



SECTION 1-1
DETAIL OF FOOTING CF2
(SCALE 1:25)



FOOTING CF1- PLAN
(SCALE 1:25)



FOOTING CF2- PLAN
(SCALE 1:25)

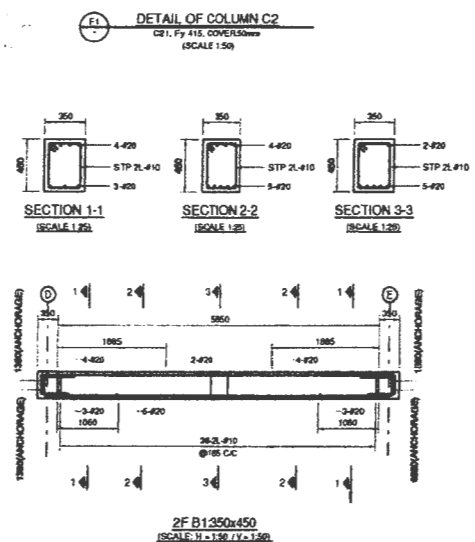
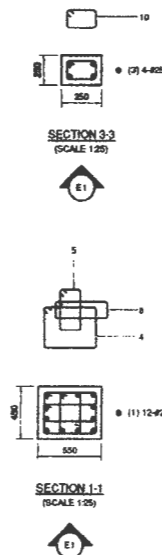
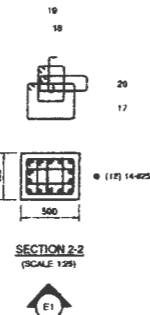
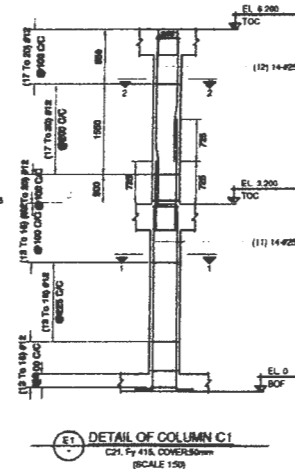
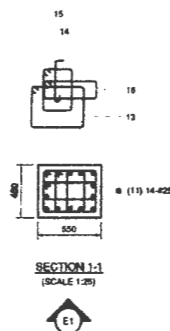
6.2M	C21: Fy415, COVER = 50MM CONFINING ZONE = 450 MM			
TO	Z1 MAIN LINK #12 @ 50	Z1 OTHERS —	Z2 LINKS #12 @ 125	
9.2M			4-#25	
3.2M	C21: Fy415, COVER = 50MM CONFINING ZONE = 500 MM			
TO	Z1 MAIN LINK #12 @ 100	Z1 OTHERS #12 @ 100	Z2 LINKS #12 @ 200	
6.2M			12-#25	
0M	C21: Fy415, COVER = 50MM CONFINING ZONE = 550 MM			
TO	Z1 MAIN LINK #12 @ 100	Z1 OTHERS #12 @ 100	Z2 LINKS #12 @ 225	
3.2M			12-#25	
COLUMN MARKED	C2		C1	

COLUMN AND WALL SCHEDULE
(SCALE 1:25)

- NOTES:
1. BE - BOUNDARY ELEMENT AS PER ACI 318M - 2014. PROVIDE CONFINING REINFORCEMENT ACROSS ENTIRE HEIGHT OF WALL IN THE BOUNDARY ELEMENT
 2. Z1 - SPECIAL CONFINING ZONE AS PER ACI 318M - 2014, Z2 - REMAINING ZONES AS PER ACI 318M - 2014

6.2M	TO	9.2M	SIZE	250 X 350
			STEEL	4-#25
			LINKS	#12@50 C/C + #12@125 C/C
			MATERIAL	C21:Fy415
			SCR ZONE	450
3.2M	TO	6.2M	SIZE	400 X 500
			STEEL	14-#25
			LINKS	#12@100 C/C + #12@200 C/C
			MATERIAL	C21:Fy415
			SCR ZONE	500
0M	TO	3.2M	SIZE	450 X 550
			STEEL	14-#25
			LINKS	#12@100 C/C + #12@225 C/C
			MATERIAL	C21:Fy415
			SCR ZONE	550
COLUMN MARKED			C1	C2

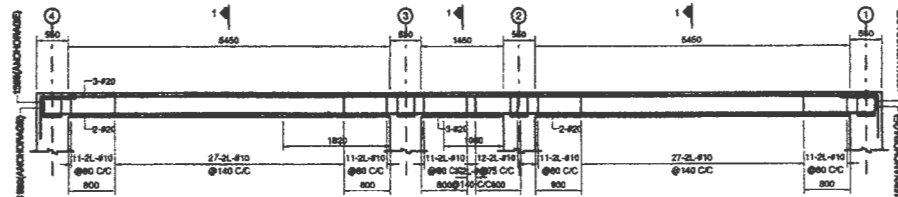
COLUMN SCHEDULE



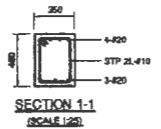
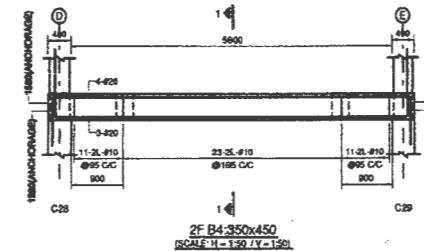
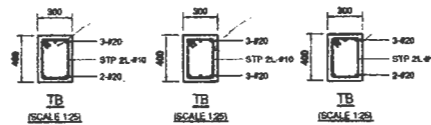
2F B1350x450
(SCALE: H = 1/50 / V = 1/50)

BEAM SCHEDULE (C21:Fy415) (LEVEL: 1.5m)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			SFR	DIAGONAL	REMARKS
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT			
TB	300	400	3-#20	2-#20	3-#20	3-#20	3-#20	3-#20	11-2L-#10@80 C/C	1-2L-#10@140 C/C	12-2L-#10@75 C/C	-	-	-

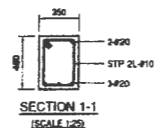
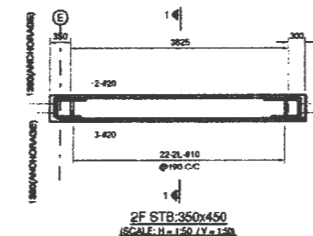
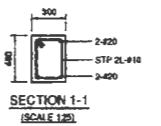
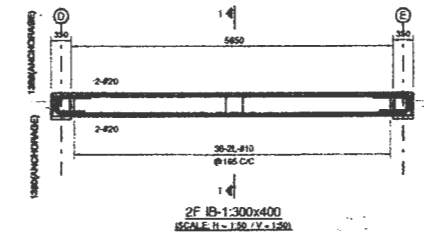


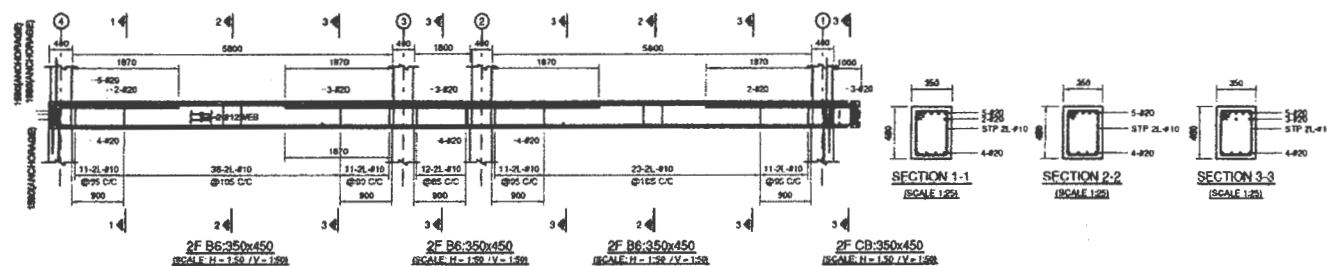
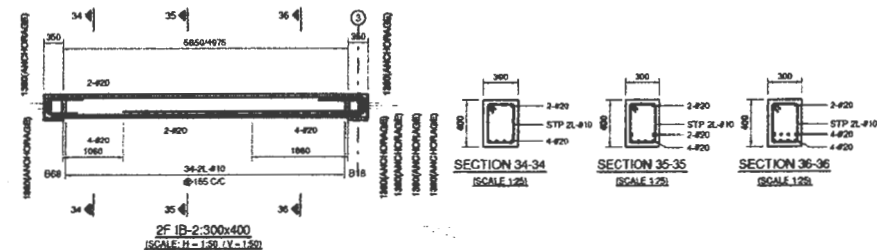
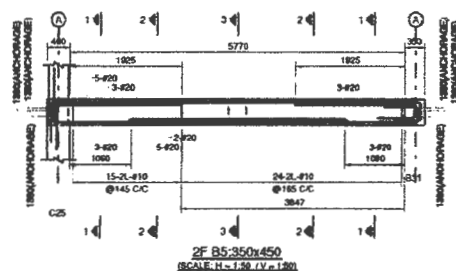
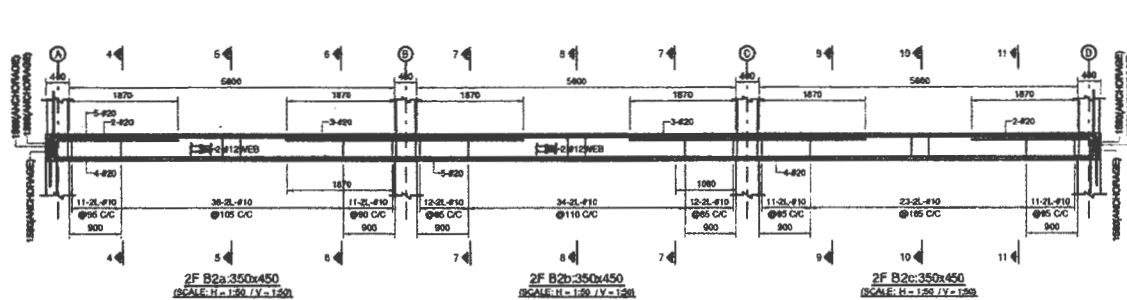
TIE BEAM DETAIL
(SCALE 1:25)

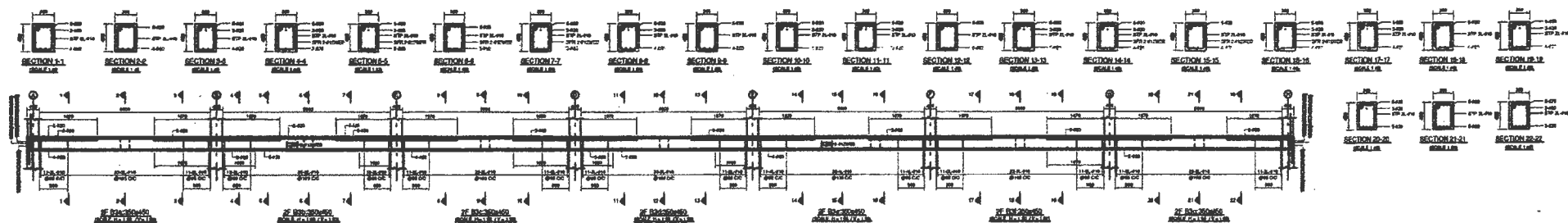


BEAM SCHEDULE (C21:Fy415) (LEVEL: 3.2m)

FLOOR LEVEL	BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			SFR	DIAGONAL	REMARKS
		B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT			
SECOND FLOOR	B1	350	450	3-#20	3-#20	3-#20	4-#20	2-#20	4-#20	13-2L-#10@185 C/C	11-2L-#10@185 C/C	13-2L-#10@185 C/C	-	-	-
	B2a	350	450	4-#20	4-#20	4-#20	5-#20	5-#20	5-#20	11-2L-#10@95 C/C	36-2L-#10@105 C/C	11-2L-#10@90 C/C	2-F12WEB	-	-
	B2b	350	450	5-#20	5-#20	5-#20	5-#20	5-#20	5-#20	12-2L-#10@85 C/C	34-2L-#10@110 C/C	12-2L-#10@85 C/C	2-F12WEB	-	-
	B2c	350	450	4-#20	4-#20	4-#20	5-#20	5-#20	5-#20	11-2L-#10@95 C/C	23-2L-#10@165 C/C	11-2L-#10@95 C/C	-	-	-
	B3a	350	450	4-#20	4-#20	4-#20	5-#20	5-#20	5-#20	11-2L-#10@95 C/C	23-2L-#10@165 C/C	11-2L-#10@95 C/C	-	-	-
	B3b	350	450	3-#20	5-#20	5-#20	5-#20	2-#20	5-#20	13-2L-#10@80 C/C	36-2L-#10@105 C/C	13-2L-#10@80 C/C	2-F12WEB	-	-
	B3c	350	450	4-#20	4-#20	4-#20	5-#20	5-#20	5-#20	11-2L-#10@95 C/C	25-2L-#10@180 C/C	11-2L-#10@95 C/C	-	-	-
	B3d	350	450	3-#20	5-#20	5-#20	5-#20	5-#20	5-#20	11-2L-#10@95 C/C	25-2L-#10@165 C/C	11-2L-#10@95 C/C	-	-	-
	B3e	350	450	4-#20	4-#20	4-#20	5-#20	5-#20	5-#20	11-4L-#10@95 C/C	26-4L-#10@135 C/C	11-4L-#10@95 C/C	2-F12WEB	-	-
	B3f	350	450	4-#20	4-#20	4-#20	5-#20	5-#20	5-#20	11-2L-#10@95 C/C	23-2L-#10@165 C/C	11-2L-#10@95 C/C	-	-	-
	B3g	350	450	5-#20	5-#20	5-#20	5-#20	5-#20	5-#20	11-2L-#10@95 C/C	25-2L-#10@150 C/C	11-2L-#10@95 C/C	-	-	-
	B4	350	450	3-#20	3-#20	3-#20	4-#20	4-#20	4-#20	11-2L-#10@95 C/C	23-2L-#10@165 C/C	11-2L-#10@95 C/C	-	-	-
	B5	350	450	3-#20	5-#20	5-#20	5-#20	5-#20	5-#20	15-2L-#10@145 C/C	11-2L-#10@165 C/C	13-2L-#10@165 C/C	-	-	-
	B6	350	450	4-#20	4-#20	4-#20	5-#20	5-#20	5-#20	11-2L-#10@95 C/C	23-2L-#10@155 C/C	11-2L-#10@95 C/C	-	-	-
	C8	350	450	2-#20	2-#20	3-#20	5-#20	5-#20	5-#20	5-2L-#10@85 C/C	3-2L-#10@85 C/C	5-2L-#10@85 C/C	3-F12WEB	-	CANTILEVERED
	B7-1	300	400	2-#20	2-#20	2-#20	2-#20	2-#20	2-#20	13-2L-#10@165 C/C	11-2L-#10@165 C/C	13-2L-#10@165 C/C	-	-	-
	B7-2	300	400	4-#20	4-#20	4-#20	2-#20	2-#20	2-#20	12-2L-#10@165 C/C	10-2L-#10@165 C/C	12-2L-#10@165 C/C	-	-	-
	B7B	350	450	3-#20	3-#20	3-#20	2-#20	2-#20	2-#20	9-2L-#10@190 C/C	4-2L-#10@190 C/C	9-2L-#10@190 C/C	-	-	-

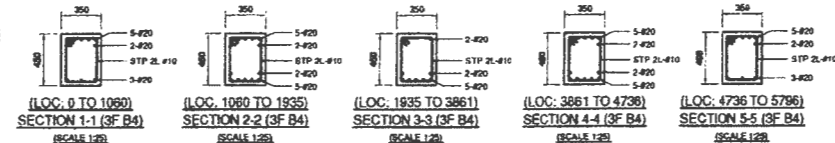
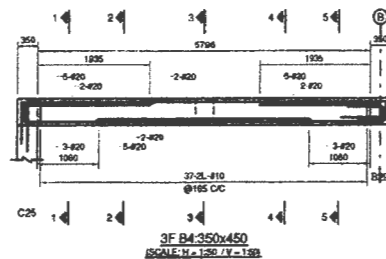
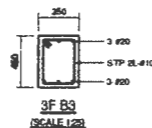
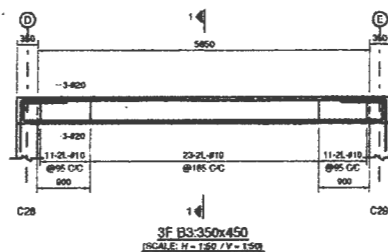
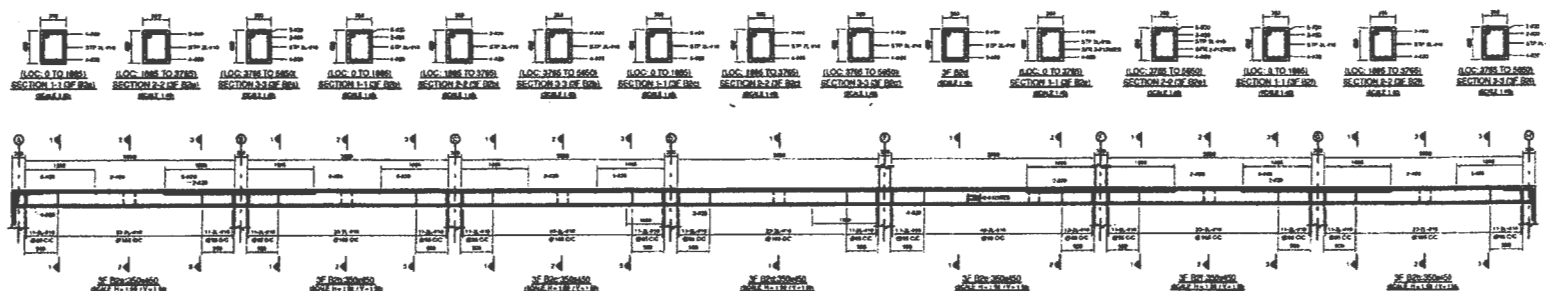
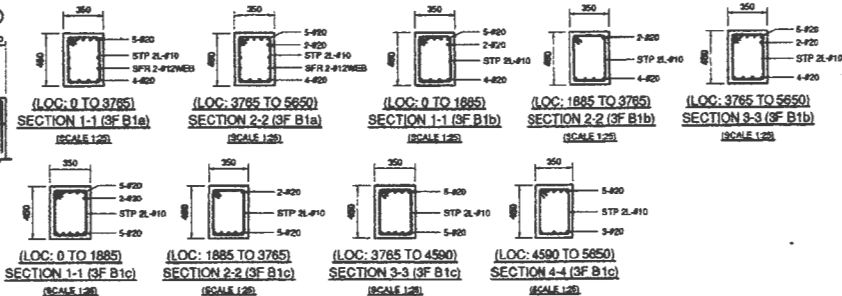
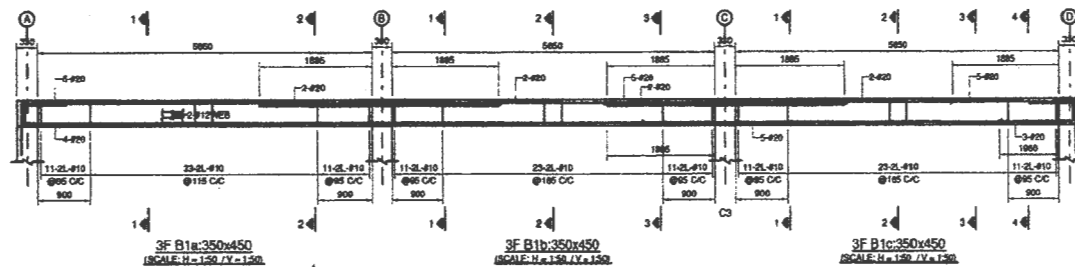


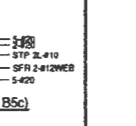
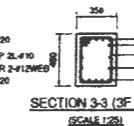
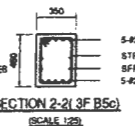
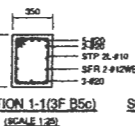
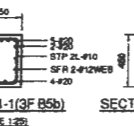
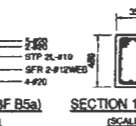
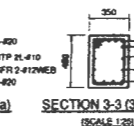
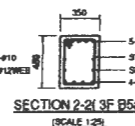
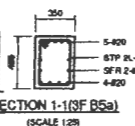
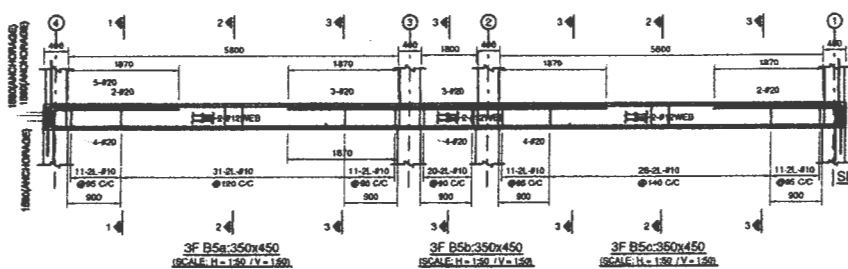
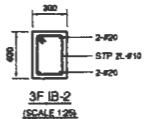
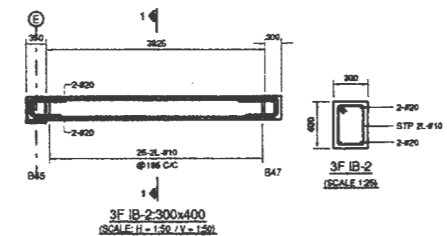
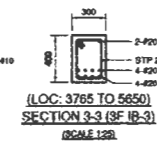
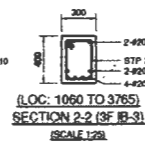
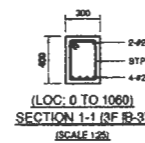
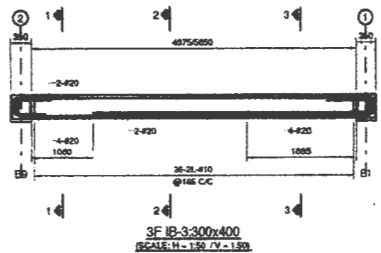
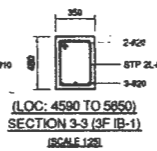
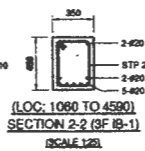
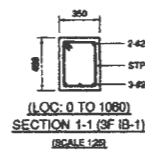
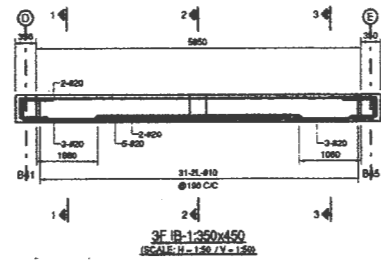




BEAM SCHEDULE (C21:Fy415) (LEVEL: 6.2m)

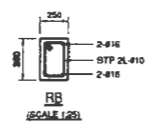
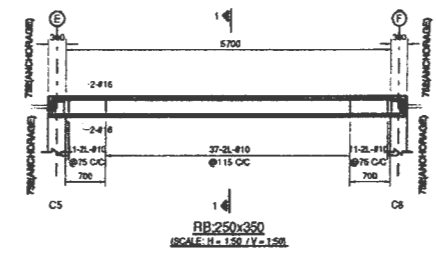
FLOOR LEVEL	BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			SFR	DIAGONAL	REMARKS
		B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT			
THIRD FLOOR/ROOF DECK	B1a	350	450	4-#20	4-#20	4-#20	5-#20	5-#20	5-#20	11-2L-#10@95 C/C	33-2L-#10@115 C/C	11-2L-#10@95 C/C	2-#12WEB	-	-
	B1b	300	450	4-#20	4-#20	4-#20	5-#20	2-#20	5-#20	11-2L-#10@95 C/C	23-2L-#10@165 C/C	11-2L-#10@95 C/C	-	-	-
	B1c	350	450	5-#20	5-#20	3-#20	5-#20	2-#20	5-#20	11-2L-#10@95 C/C	23-2L-#10@165 C/C	11-2L-#10@95 C/C	-	-	-
	B2a	350	450	4-#20	4-#20	4-#20	5-#20	2-#20	5-#20	11-2L-#10@95 C/C	23-2L-#10@165 C/C	11-2L-#10@95 C/C	-	-	-
	B2b	350	450	4-#20	4-#20	4-#20	5-#20	2-#20	5-#20	11-2L-#10@95 C/C	23-2L-#10@165 C/C	11-2L-#10@95 C/C	-	-	-
	B2c	350	450	4-#20	4-#20	4-#20	5-#20	2-#20	5-#20	11-2L-#10@95 C/C	23-2L-#10@165 C/C	11-2L-#10@95 C/C	-	-	-
	B2d	300	450	3-#20	3-#20	3-#20	5-#20	5-#20	5-#20	11-2L-#10@95 C/C	23-2L-#10@165 C/C	11-2L-#10@95 C/C	-	-	-
	B2e	350	450	4-#20	4-#20	4-#20	5-#20	5-#20	5-#20	11-2L-#10@95 C/C	42-2L-#10@90 C/C	13-2L-#10@90 C/C	2-#12WEB	-	-
	B2f	350	450	4-#20	4-#20	4-#20	5-#20	2-#20	5-#20	11-2L-#10@95 C/C	23-2L-#10@165 C/C	11-2L-#10@95 C/C	-	-	-
	B3	350	450	3-#20	3-#20	3-#20	5-#20	2-#20	5-#20	11-2L-#10@95 C/C	23-2L-#10@165 C/C	11-2L-#10@95 C/C	-	-	-
	B4	350	450	3-#20	5-#20	3-#20	5-#20	2-#20	5-#20	13-2L-#10@165 C/C	11-2L-#10@165 C/C	13-2L-#10@165 C/C	-	-	-
	B5a	350	450	4-#20	4-#20	4-#20	5-#20	5-#20	5-#20	11-2L-#10@95 C/C	31-2L-#10@120 C/C	11-2L-#10@95 C/C	2-#12WEB	-	-
	B5b	350	450	4-#20	4-#20	4-#20	5-#20	5-#20	5-#20	5-2L-#10@90 C/C	10-2L-#10@90 C/C	5-2L-#10@90 C/C	2-#12WEB	-	-
	B5c	350	450	3-#20	5-#20	5-#20	5-#20	5-#20	5-#20	11-2L-#10@95 C/C	26-2L-#10@140 C/C	11-2L-#10@95 C/C	2-#12WEB	-	-
	B5-1	350	450	3-#20	5-#20	3-#20	2-#20	2-#20	2-#20	11-2L-#10@180 C/C	9-2L-#10@180 C/C	11-2L-#10@180 C/C	-	-	-
	B5-2	300	400	2-#20	2-#20	2-#20	2-#20	2-#20	2-#20	9-2L-#10@165 C/C	7-2L-#10@165 C/C	9-2L-#10@165 C/C	-	-	-
	B5-3	300	400	4-#20	4-#20	4-#20	2-#20	2-#20	2-#20	12-2L-#10@165 C/C	10-2L-#10@165 C/C	12-2L-#10@165 C/C	-	-	-

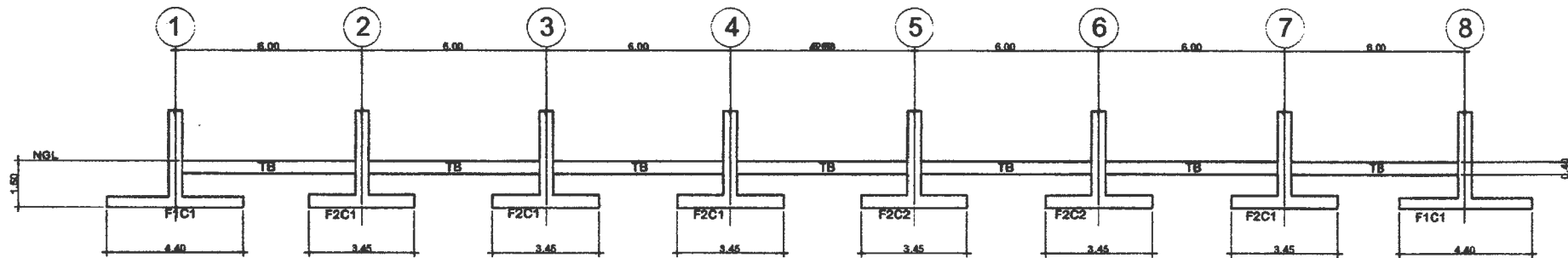




BEAM SCHEDULE (C21:Fy275) (LEVEL: 9.2m)

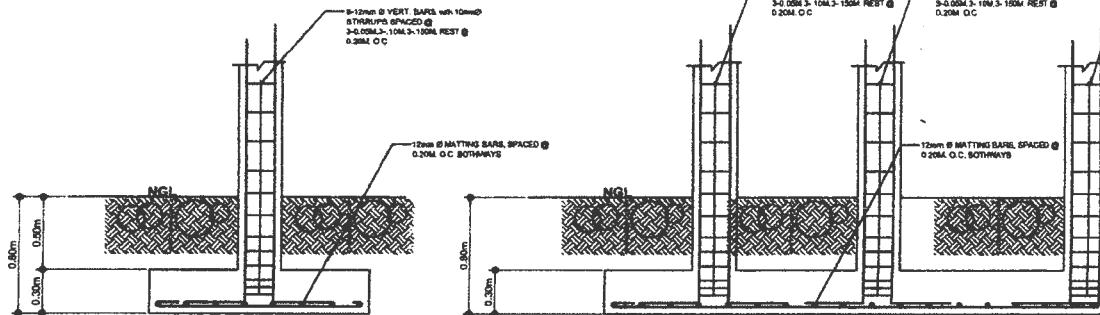
BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			SFR	DIAGONAL	REMARKS
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT			
RB	250	350	2-416	2-416	2-416	2-416	2-416	2-416	11-2L-410@75 CC	37-2L-410@115 CC	11-2L-410@75 CC			





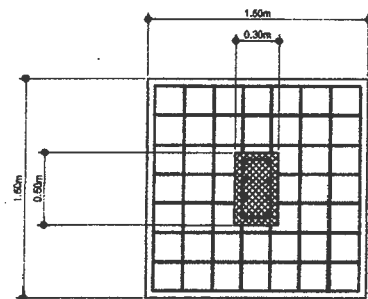
ALONG GRADE A-A LINE

SCALE 1:80 M.

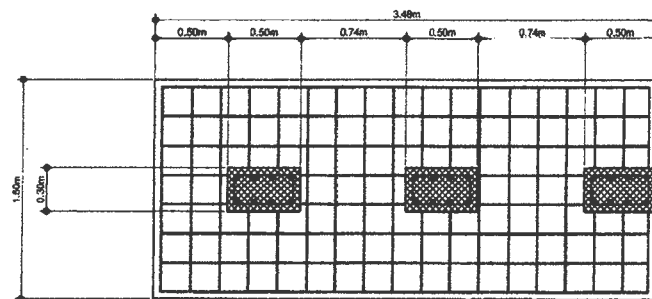


SECTION

SECTION

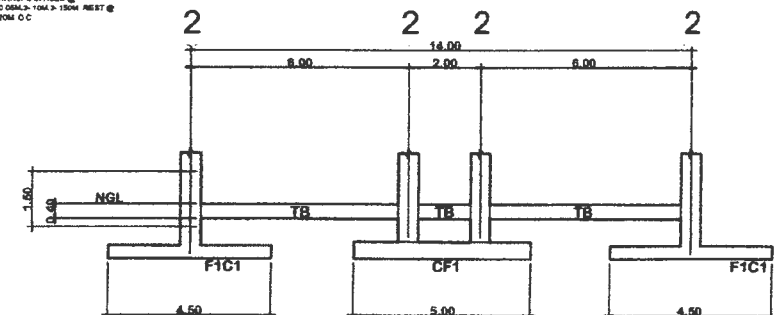


FOOTING F4C3



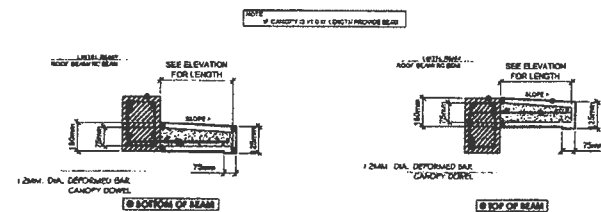
FOOTING CF3

FOOTING & COLUMN DETAIL
SCALE 1:20 M.

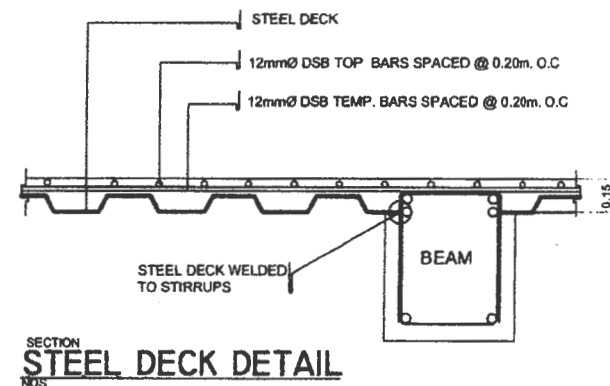
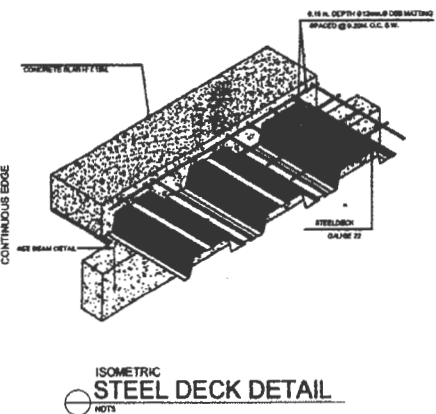
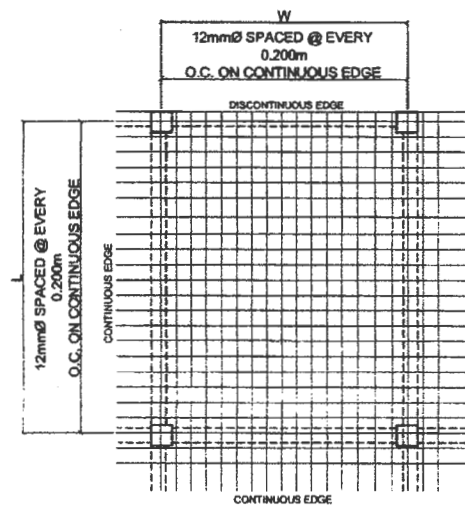
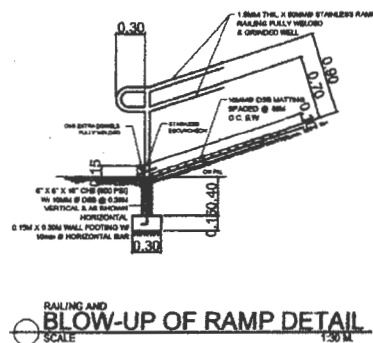
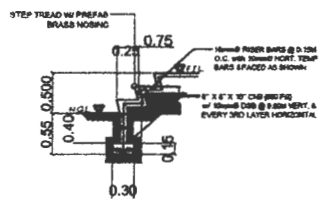
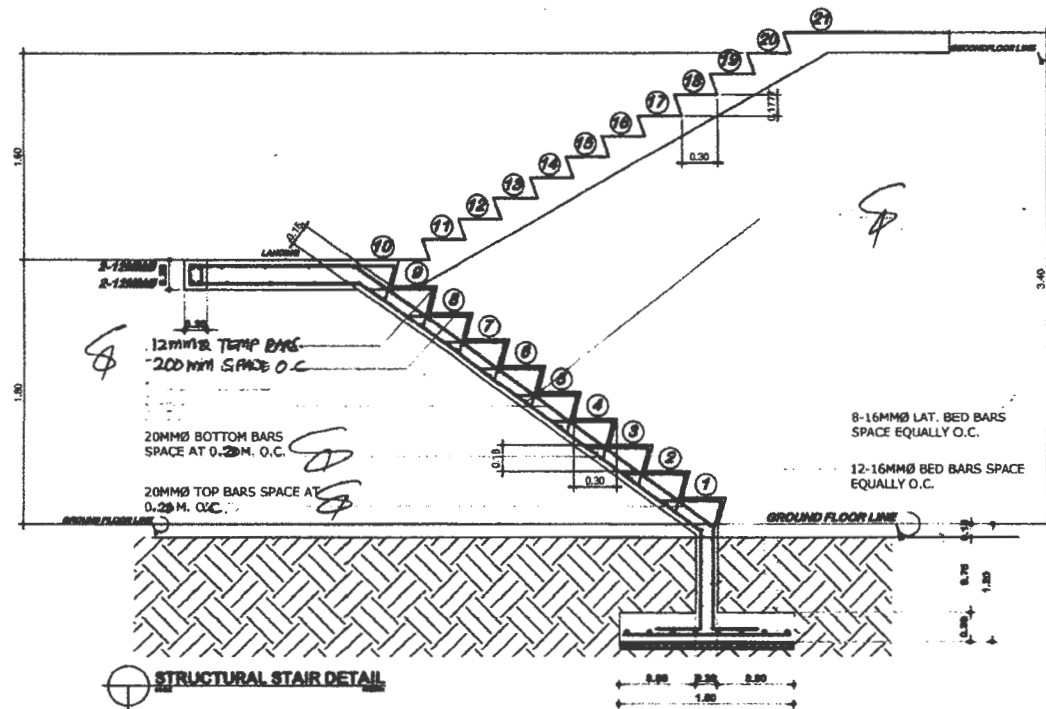


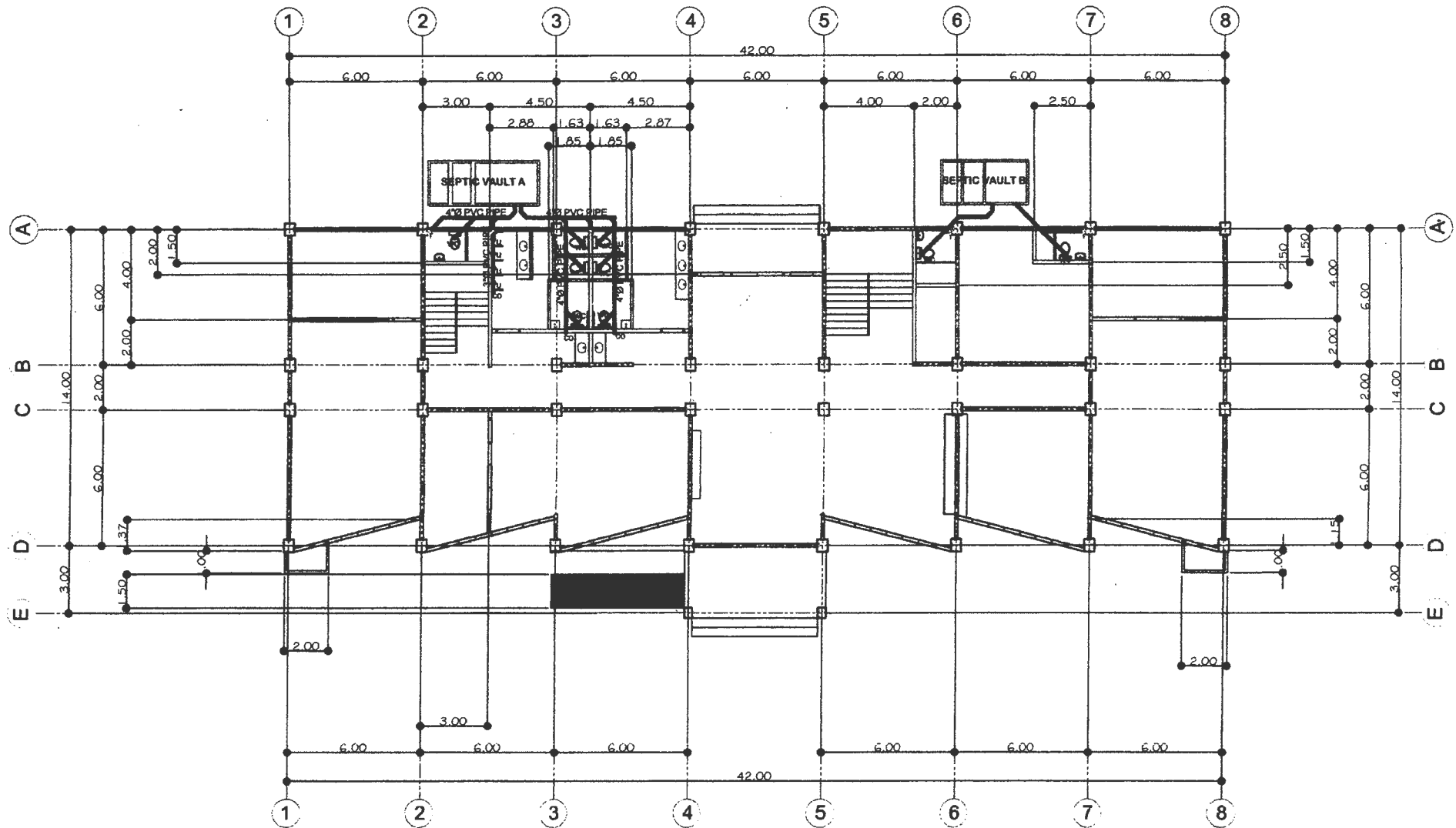
ALONG GRADE 1-1 LINE

SCALE 1:80 M.



CONCRETE CANOPY DETAIL
SCALE 1:10 M.



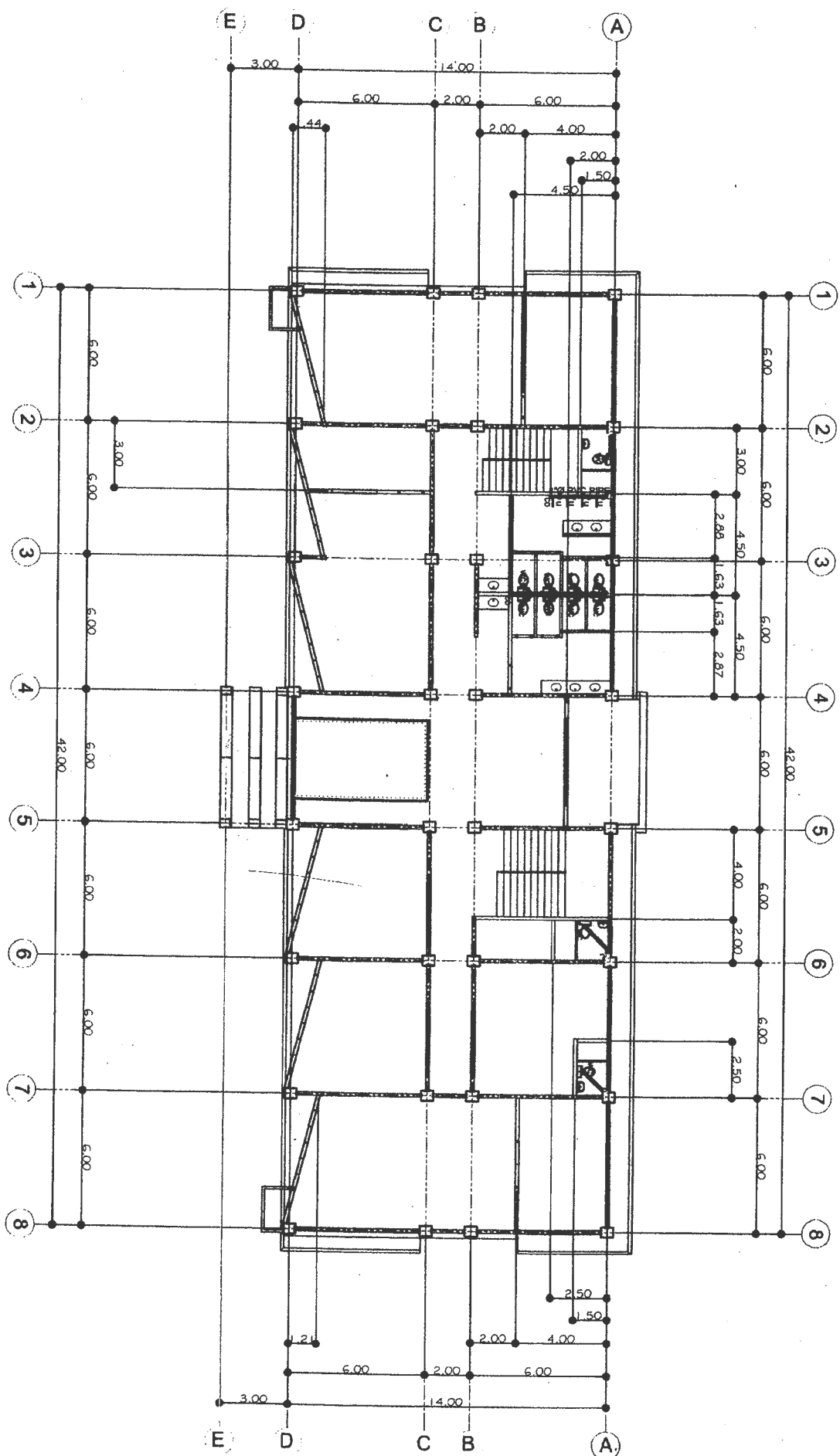


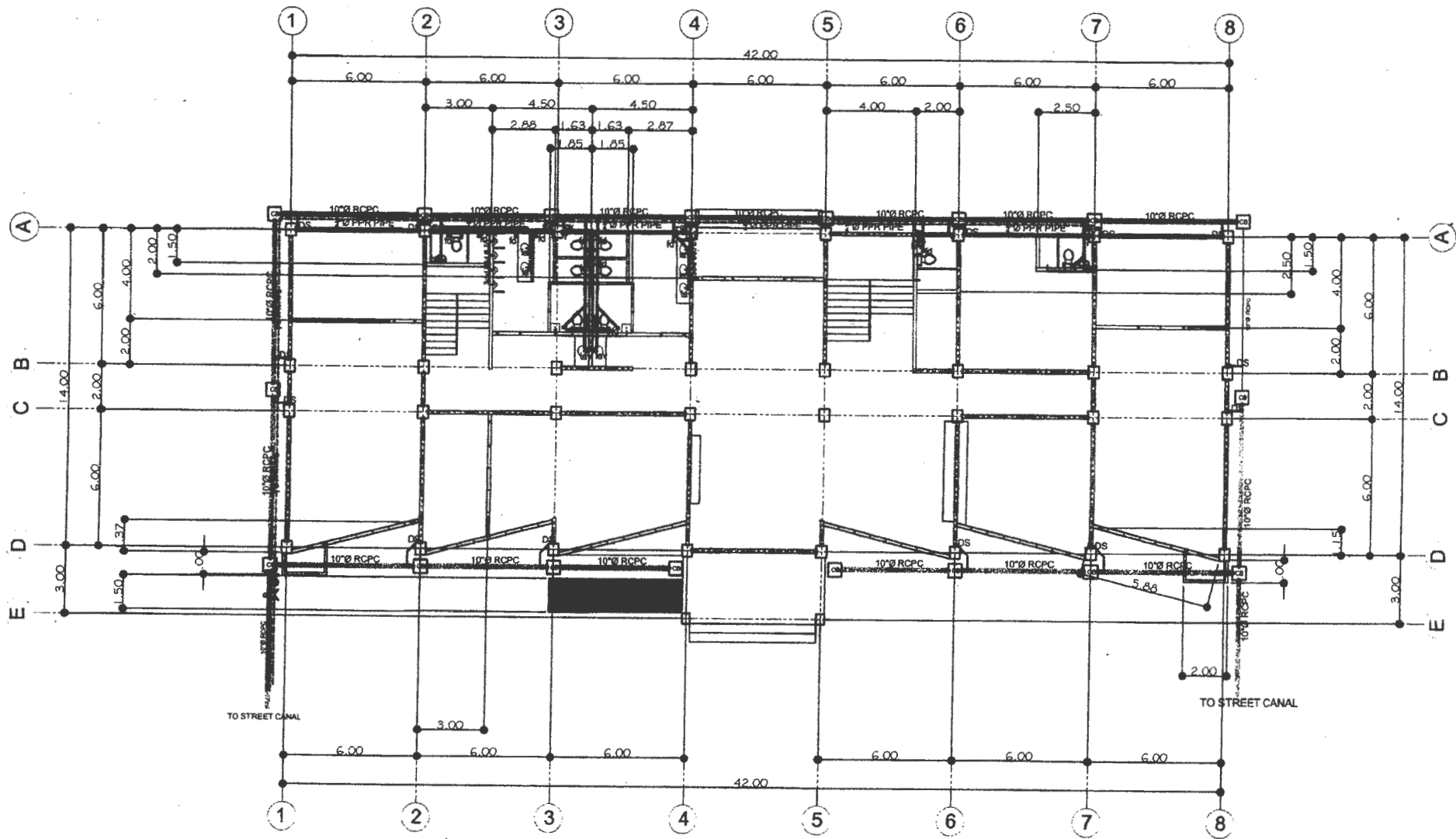
GROUND FLOOR PLUMBING PLAN

SCALE 1:100 M.

SECOND FLOOR PLUMBING PLAN

SCALE 1:100 M.

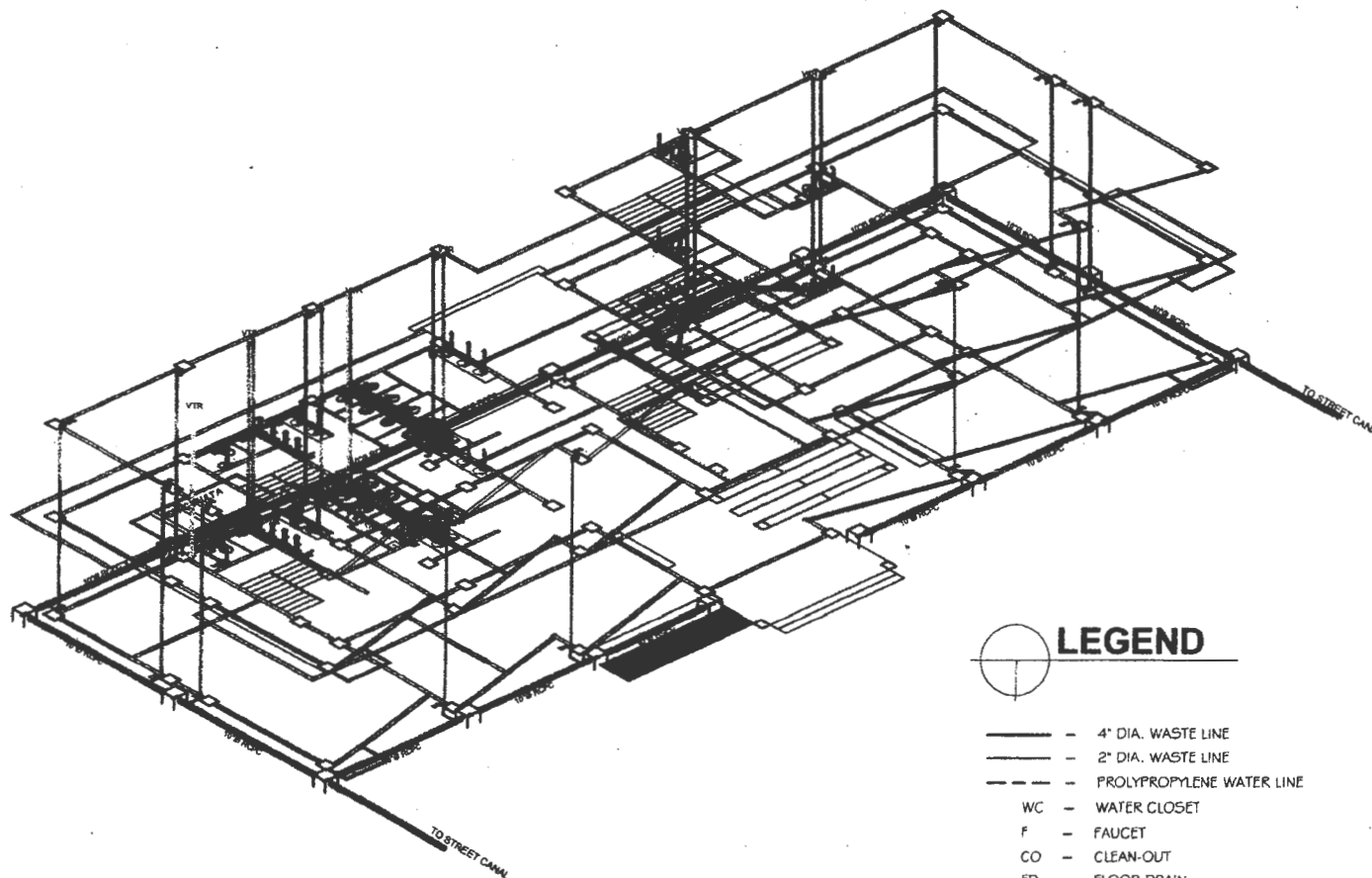




GROUND FLOOR WASTE AND WATER LAY-OUT PLAN

SCALE

1:100 M.



ISOMETRIC VIEW
SCALE 1:100 M.



LEGEND

- 4" DIA. WASTE LINE
- 2" DIA. WASTE LINE
- - - POLYPROPYLENE WATER LINE
- WC — WATER CLOSET
- F — FAUCET
- CO — CLEAN-OUT
- FD — FLOOR DRAIN
- LAV — LAVATORY
- SV — SEPTIC VAULT
- GV — GATE VALVE
- CV — CHECK VALVE
- SH — SHOWER HEAD
- WS — WATER SOFTENER
- BPV — BY-PASS VALVE
- VTR — VENT THRU ROOF
- HB — HOSE BIBB
- GT — GREASE TRAP
- CB — CATCH BASIN
- DS — DOWN SPOUT

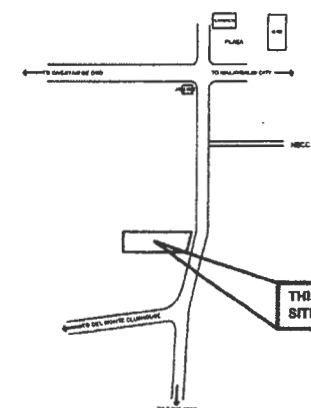


GENERAL NOTES

1. ALL PLUMBING WORKS INCLUDED HEREIN SHALL CONFORM TO THE LATEST EDITION OF THE PHILIPPINE PLUMBING CODE, NATIONAL BUILDING CODE, AND THE RULES AND REGULATIONS OF THE LOCAL AUTHORITY.
2. ALL SLOPE FOR ALL HORIZONTAL WASTE LINE SHALL MOUNTAIN 2% MINIMUM UNLESS OTHERWISE SPECIFIED.
3. ALL SEWER PIPELINES EMBEDDED ON GROUND AND BELOW CONCRETE SLAB HAD BEEN PROVIDED WITH SAND BEDDING MATERIALS.
4. ALL SOIL PIPE & WASTE PIPE LINES SHALL BE PVC PIPE AND SHALL BE PROPERLY JOINTED WITH PVC SOLVENT CEMENT
5. WASTE PIPE LINES SHALL BE A MINIMUM OF 100MMØ PVC PIPE (S-1000) FOR MAIN PIPE, WATER CLOSET AND FLOOR DRAIN; 80MMØ PVC PIPE (S-1000) FOR MAIN VENT AND BRANCH VENT, 75MMØ (S-1000) FOR SINK DRAIN
6. VENT THRU ROOF SHALL BE 0.30M FROM ANY OPENING
7. ALL FLOOR DRAIN & SINK SHALL BE WITH ITS RESPECTIVE P-TRAPS
8. CHANGES IN DIRECTION:
 - HORIZONTAL DRAINAGE LINES TO VERTICAL STACK
 - 45 OR 90 WYE BRANCHES
 - COMBINATION OF WYE AND 1/8 BEND BRANCHES
 - SANITARY TEE
 - HORIZONTAL DRAINAGE LINES TO ANOTHER HORIZONTAL DRAINAGE LINES
 - 45 WYE BRANCHES
 - COMBINATION WYE AND 1/8 BEND BRANCHES
 - VERTICAL DRAINAGE LINES CONNECTING TO HORIZONTAL DRAINAGE LINE
 - 45 BRANCHES
9. ROOF DRAIN
 - RAINWATER PIPING SHALL NOT BE USED AS SOIL, WASTE & VENT PIPES
 - ROOF DRAINS SHALL BE EQUIPPED WITH STRAINERS EXTENDING NOT LESS THAN 102MM ABOVE THE SURFACE OF THE ROOF IMMEDIATELY ADJACENT TO THE DRAIN

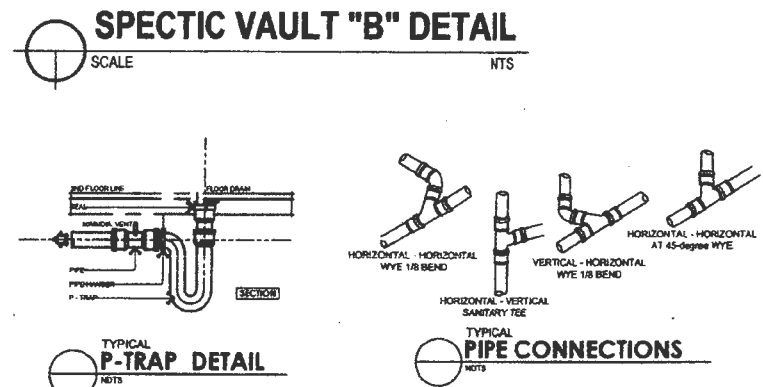
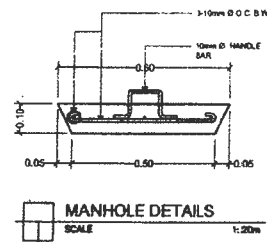
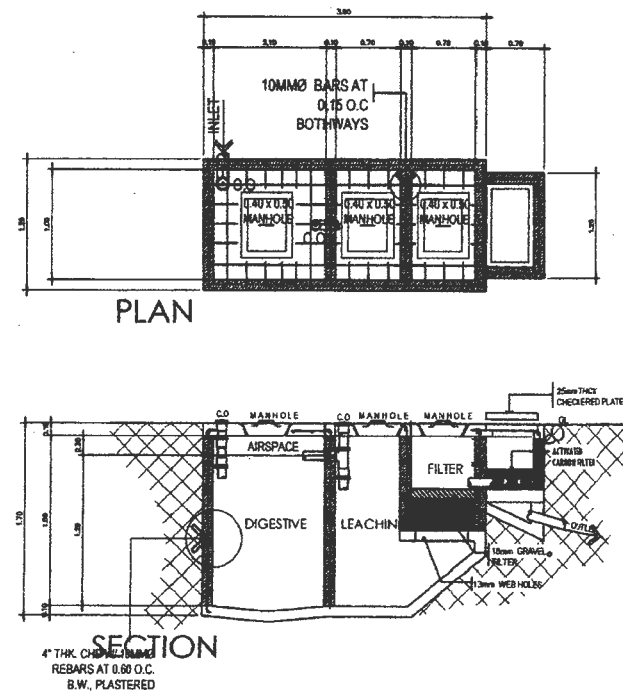
- WASTE - SOIL PIPE LINE
- SOIL PIPE LINE - 4" Ø PVC PIPE SERIES - 1000
 - WASTE PIPE LINE (FLOOR DRAIN) - 4" Ø PVC PIPE SERIES - 1000
 - WASTE PIPE LINE (LAVATORY) - 2" Ø PVC PIPE SERIES - 1000
 - MAIN VENT PIPE - 2" Ø PVC PIPE SERIES - 1000
 - DOWNSPOUT OR ROOF LEADER - 3" Ø PVC PIPE SERIES - 1000

- WATER SUPPLY LINE
- SUPPLY LINE - 1" Ø PE PIPE SDR
 - DISTRIBUTION PIPE - 1/2" Ø PE PIPE SDR



LOCATION MAP

P-or



1. ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE W/ THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, REQUIREMENTS OF THE LOCAL POWER COMPANIES, RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITIES.

2. ALL ELECTRICAL WORKS HEREIN INCLUDED SHALL BE EXECUTED BY A PERSONNEL W/ ELECTRICAL EXPERIENCE UNDER THE DIRECT SUPERVISION OF A FULL TIME LICENSED ELECTRICAL ENGINEER. WORKS SHALL BE NEATLY PLACED, SECURELY FASTENED AND PROPERLY FINISHED.

4. THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF SERVICE ENTRANCE FOR CONNECTION TO POWER SUPPLY AND COMMUNICATION.

5. ALL MATERIALS SHALL BE BRAND NEW AND SHALL CONFORM WITH THE PROVISIONS UNDER WRITERS LABORATORIES INC., IN EVERY CASE WHERE SUCH A STANDARD HAS BEEN ESTABLISHED.

6. UNLESS OTHERWISE SPECIFIED, ALL ELECTRICAL WIRING INSTALLATION FOR LIGHTING AND POWER SHALL USE PVC, FOR AUXILIARY SYSTEM USE PVC. THE MINIMUM CONDUIT SIZE SHALL BE 20mmØ.

7. ALL WIRE SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THIN". THE MINIMUM SIZE FOR LIGHTING AND POWER SHALL BE 3.5 sq. mm. AND MANUFACTURED BY PHILFLEX.

8. COLOR CODING OF WIRES AND CABLES SHALL BE AS FOLLOWS:
PHASES- BLACK, GROUND- GREEN.

9. PROVIDE ADEQUATE AND EFFECTIVE GROUNDING SYSTEM TO ALL LIGHTING AND POWER CIRCUIT AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.

10. CONVINIENCE OUTLET FOR GENERAL USE SHALL BE DUPLEX 20AT, 230 VOLTS, GROUNDING TYPE, LIGHT SWITCHES SHALL BE 15AT, 230 VOLTS.

11. ALL OUTLET BOXES SHALL BE GALVANIZE GAUGE NO. 16, DEEP TYPE WITH FACTORY KNOCKOUTS.

12. FIRE ALARM DEVICES SHALL COMPLY WITH THE NFPA PROVISIONS AND SHALL BEAR THE "UL" STANDARD MARK.

13. ALL ELECTRICAL PANEL BOARD AND CIRCUIT BREAKERS SHALL BE "SQUARE D", BOLT-ON TYPE.

14. ALL ELECTRICAL CIRCUITS SHALL BE WIRED ACCORDING TO THE PANEL BOARD LOAD SCHEDULE.

15. ALL MOUNTING HEIGHTS OF DEVICES SHALL BE AS FOLLOWS:
(SUBJECTS TO ARCHITECT'S APPROVAL PRIOR TO INSTALLATION)

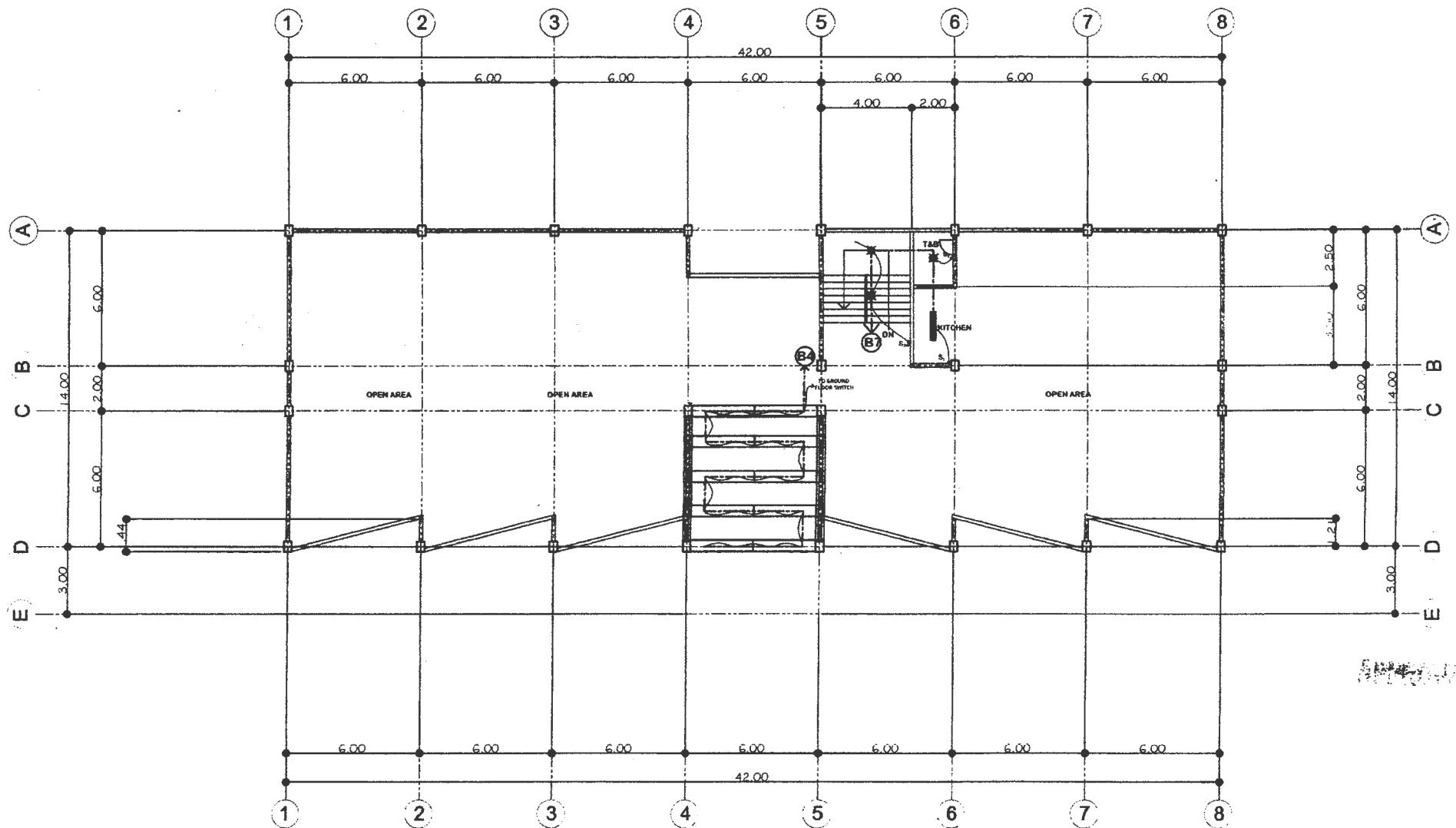
- A. PANEL BOARD - 1.40 M CENTER OF THE FINISHED FLOOR
- B. SWITCH - 1.40 M ABOVE FINISHED FLOOR TO CENTER OF THE DEVICE
- C. CONVENIENCE OUTLET - 0.30 M ABOVE FINISHED FLOOR TO CENTER OF THE DEVICE
- D. INTERCOM OUTLETS - 1.40 M FROM FINISHED FLOOR TO CENTER OF THE DEVICE.
- E. CONTROL CABINETS - 1.500 MM ABOVE FINISHED FLOOR TO TOP OF ENCLOSURE (VERTICAL)
- F. MANUAL STATION - 1.500 MM ABOVE FINISHED FLOOR TO CENTER OF DEVICE
- G. BELL - 200 MM BELOW BEAM OR FINISHED CEILING
- H. EMERGENCY LIGHT - 300 MM BELOW BEAM OR FINISHED CEILING
- I. EXIT LIGHT - 150 MM ABOVE DOOR JAMB

16. THE PLANS AS DRAWN ARE BASED UPON THE ARCHITECTURAL PLANS AND DETAILS AND SHOWN CONDITION AS ACCURATELY AS POSSIBLE TO INDICATE THEM IN SCALE. THE PLANS ARE DIAGRAMMATICAL AND DOES NOT NECESSARILY SHOW ALL FITTINGS NECESSARY TO FIT TO THE BUILDING CONDITIONS. THE LOCATION OF OUTLETS, APPARATUS AND APPLIANCES SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR PROPER LOCATION IN ORDER TO MAKE THEM FIT THE ARCHITECTURAL DETAILS AND INSTRUCTIONS FROM THE ENGINEER'S REPRESENTATIVE AT THE SITE.

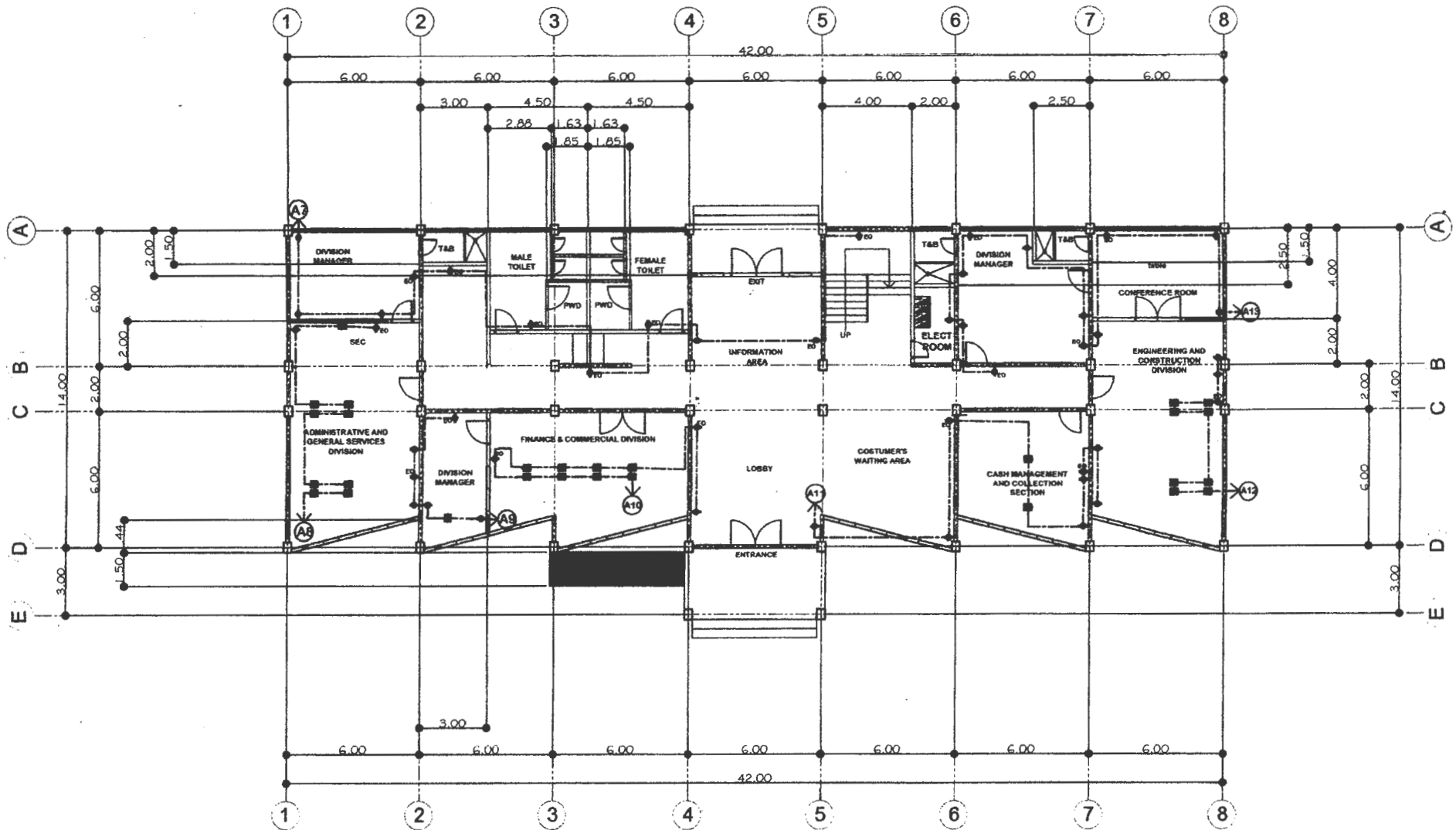
17. COVER ALL JUNCTION BOXES (STRICTLY NO EXPOSED WIRE).





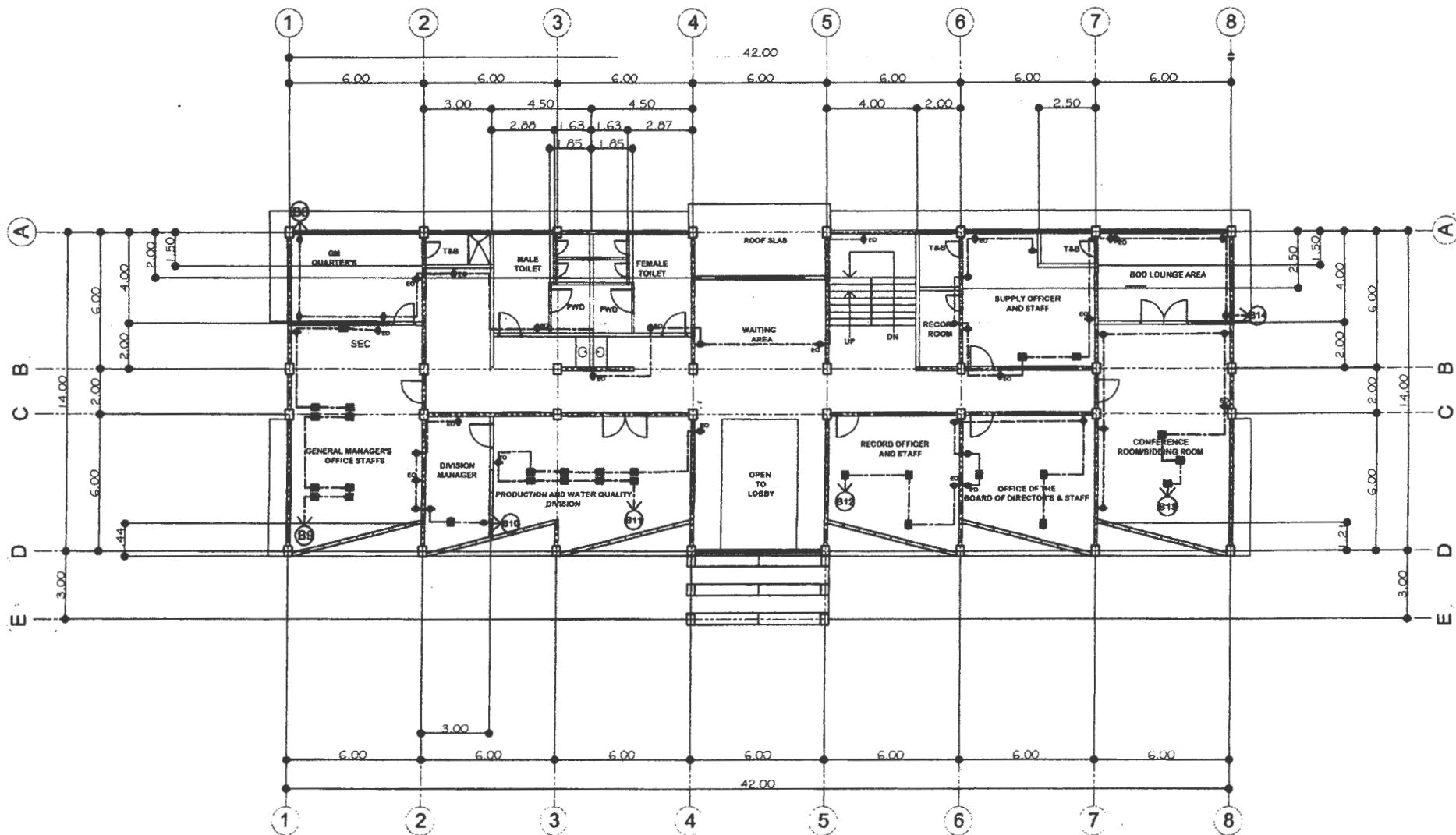


ROOFDECK FLOOR LIGHTING PLAN
SCALE 1:100 M.



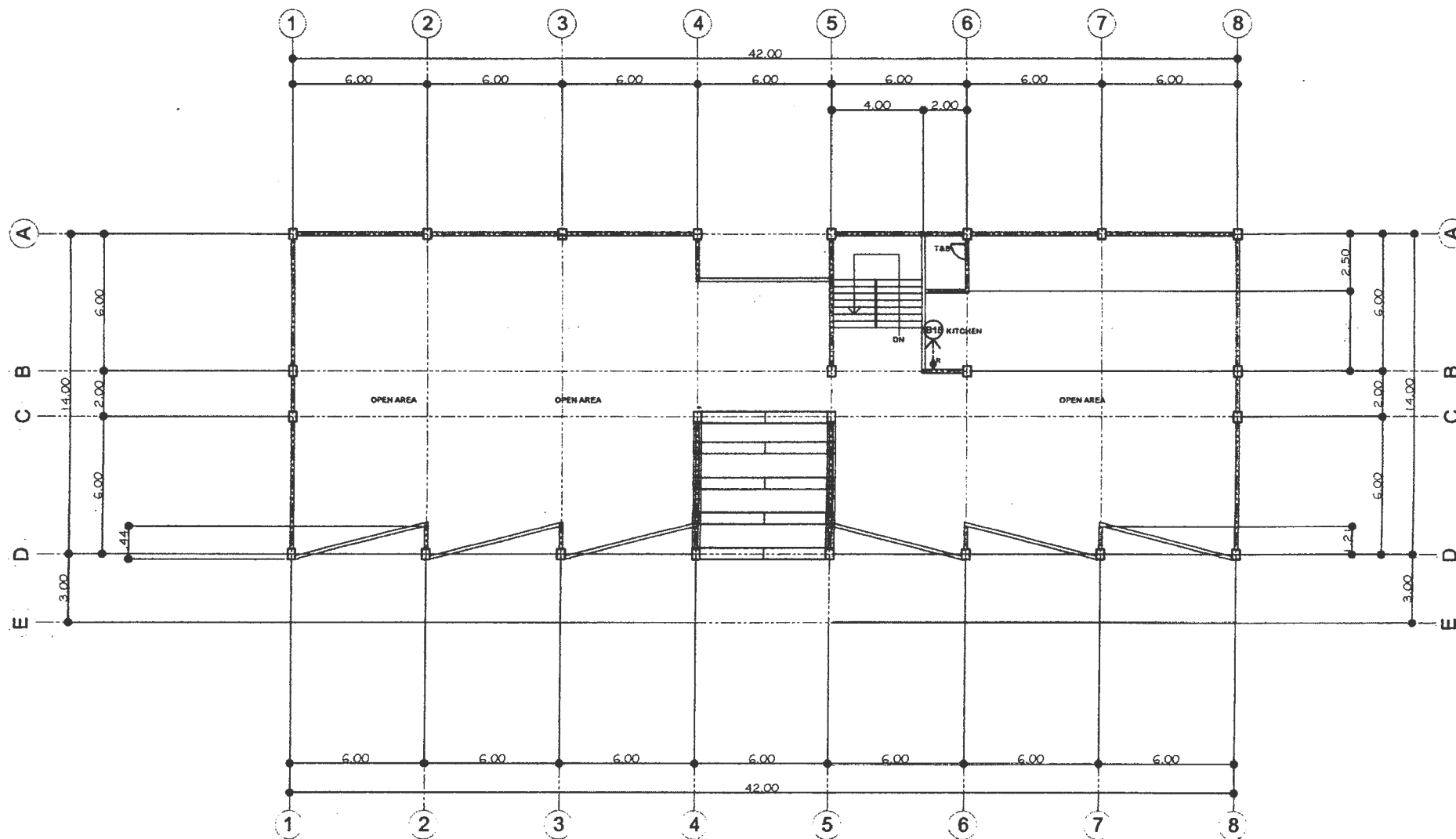
GROUND FLOOR POWER PLAN
SCALE 1:100 M.

E-05



SECOND FLOOR POWER PLAN
 SCALE 1:100 M.

E-06



ROOFDECK FLOOR POWER PLAN
 SCALE 1:100 M.

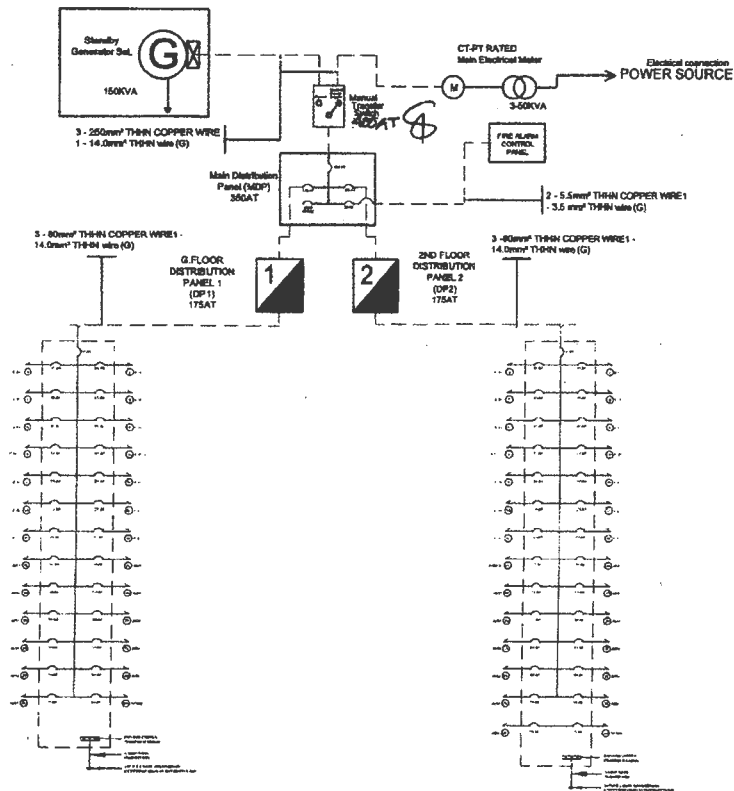
31

[illegible]

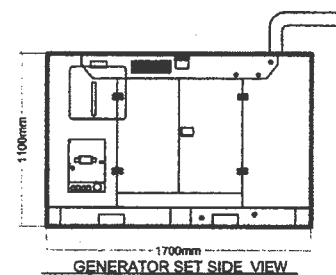
STUDY-OUT ONLY	
----------------	--

COMPUTATIONS: FOR DP2		OTHER LOADS	
TOTAL DRYING LOAD	* 17,700WATTS	DRYING OF (7,500 0.80)	= 3,000 WATTS
		SHADE OF 50% OF (7,500 0.80)	= 2,000 WATTS
		WOTTER LOAD @ 50% OF (75,000 3.00)	= 10,000 WATTS
		TOTAL LOAD	= 15,000 WATTS
APPLYING DESIGN FACTOR		IF = 1.5 (15,000 WATTS) x 1.5 = 22,500 WATTS	
1ST 3.000W @ 100% OF	* 3,000 WATTS		
2ND 2.000W @ 100% OF	* 2,000 WATTS		
3RD 10,000W @ 100% OF	* 10,000 WATTS		
TOTAL DRYING LOAD	= 15,000 WATTS		
TOTAL CONDUITANCE LOAD	* 9,400 WATTS		
APPLYING DESIGN FACTOR			
1ST 3.000W @ 100% OF	* 3,000 WATTS		
2ND 2.000W @ 100% OF	* 2,000 WATTS		
3RD 4,400W @ 100% OF	* 4,400 WATTS		
TOTAL CONDUITANCE LOAD	= 9,400 WATTS		
APPLYING DESIGN FACTOR			
1ST 3.000W @ 100% OF	* 3,000 WATTS		
2ND 2.000W @ 100% OF	* 2,000 WATTS		
3RD 4,400W @ 100% OF	* 4,400 WATTS		
TOTAL CONDUITANCE LOAD	= 9,400 WATTS		

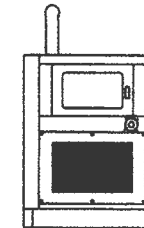
OFFER WERE GRANTED



SIGLE LINE DIAGRAM
SCALE: NTS.



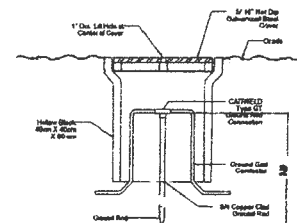
GENERATOR SET SIDE VIEW



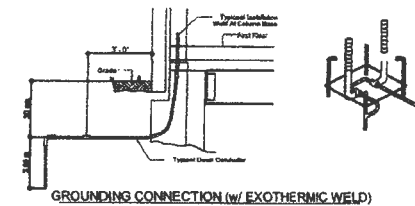
GENERATOR SET FRONT VIEW

GENERATOR SET DETAILED DRAWINGS

LEGEND:	
	40mm x 40mm x 4mm COVER HAND HOLE OF 254 x 254 COPPER CLAD
	COPPER CLAD GROUND ROD W/ EXOTHERMIC WELD



CADWELD DETAIL



GROUNDING CONNECTION (w/ EXOTHERMIC WELD)

SPECIFICATION:

1. THE GROUND RING SHOULD BE IN DIRECT CONTACT WITH THE EARTH AT A DEPTH BELOW THE EARTH SURFACE OF AT LEAST 1.0m.
2. INSPECTION PIT WILL BE 40cm x 40cm x 60cm w/ COVER.
3. MINIMUM OF 100mm³ ... WILL BE USED FOR THE GROUND WIRE THAT WILL TOUCH THE EARTH SURFACE.
4. MINIMUM 3/4 OF AN INCH FOR THE COPPER CLAD GROUND ROD.
5. USE CADWELD FOR ALL EXOTHERMIC CONNECTION.
6. MAXIMUM OF 50 (OHM) FOR THE VALUE OF EACH GROUND ROD LOCATION BEFORE AND AFTER BONDING OF THE GROUND RING.