

REPAIR/ RENOVATION OF REGISTRY OF DEEDS OFFICE

Justice Road, Brgy. Capoocan, Calbayog City

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GENERAL NOTES:

1.0 STANDARDS AND REFERENCES

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

0.1 NATIONAL STRUCTURAL CODE OF THE PHILIPPINES (NSCP) VOL.16TH EDITION

2.0 DESIGN CRITERIA

2.1 LOADINGS

A. DEAD LOAD	
CONCRETE	23.56 KN/CU.M
STEEL	76.99 KN/CU.M
B. LIVE LOAD	
C. WIND LOAD (NSCP 2010)	
D. SEISMIC LOAD (NSCP 2010)	

3.0 FOUNDATION

3.1 ASSUMED SOIL BEARING CAPACITY SHALL BE 98KPa (2,000 PSF)

3.1.1 IN CASE THE ACTUAL SOIL BEARING CAPACITY IS FOUND LESS THAN THE ASSUMED, 98 KPa, NOTIFY THE DIRECTOR, BUREAU OF DESIGN FOR PROPER REVISION OF FOUNDATION.

3.1.2 NO FOOTING SHALL REST ON FILL.

3.1.3 BOTTOM OF FOOTING SHALL BE AT LEAST 1.00m. BELOW NATURAL GRADE LINE

3.1.4 SOIL BEARING CAPACITY SHALL BE INCREASED BY 33% WHEN IN COMBINATION WITH SEISMIC OR WIND LOAD.

3.2 ALL COLUMN FOOTINGS SHALL REST ON 100mm THK LEAN CONCRETE.

3.3 EMBANKMENT FROM BORROW SHALL BE PLACED IN LAYER AND EACH LAYER SHALL BE 200mm THK AND SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY.

3.4 WHERE LOOSE /SOFT MATERIAL IS ENCOUNTERED AT DEPTH OF EMBEDMENT INDICATED, EXCAVATE TO FIRM LAYER AND REPLACE LOOSE/MATERIALS UNDERNEATH THE FOOTING WITHIN THE FOOTING AREA PLUS 1/4 DEPTH OF SOFT MATERIAL ON ALL SIDES WITH SELECTED GRANULAR BACKFILL. COMPACT SELECTED GRANULAR BACKFILL TO 95% MAXIMUM DRY DENSITY.

4.0 MATERIALS

4.1 CONCRETE

4.1.1 CONCRETE COVER OVER REINFORCING BARS SHALL BE AS FOLLOWS:

A. FOOTINGS, FOOTING-TIE BEAM (CAST AGAINST EARTH)	- 75mm
B. BEAMS AND COLUMNS (TO STIRRUPS AND TIES)	- 40mm
C. SIDE OF FOOTING-TIE BEAMS (CAST AGAINST FORMS)	- 40mm
D. SUSPENDED SLAB	- 20mm

4.1.2 BEFORE CONCRETE IS POURED, CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, ETC. RELATING TO THE WORK.

4.2 REINFORCING BARS

4.2.1 ALL REINFORCING BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIALS THAT WILL IMPAIR BOND.

4.2.2 ALL REINFORCING BARS SHALL BE ACCURATELY AND SECURELY PLACED BEFORE POURING CONCRETE OR APPLYING MORTAR OR GROUT.

4.2.3 LAPPED SPLICES SHALL BE STAGGERED WHERE POSSIBLE.

4.2.4 UNLESS OTHERWISE INDICATED, SPLICING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI-318M, EXCEPT THAT THE MINIMUM LAP SPLICE SHALL BE 40 BAR DIAMETER BUT NOT LESS THAN 600mm.

4.2.5 UNLESS SHOWN OTHERWISE ON PLANS, SPLICES SHALL BE AS FOLLOWS:

- A. INTERMEDIATE BEAMS: TOP BARS SHALL BE SPLICED AT MIDSPAN, AND BOTTOM BARS AT THE SUPPORT
- B. BEAMS FRAMING TO COLUMNS: TOP BARS SHALL BE SPLICED AT MID-SPAN AND AND BOTTOM BARS SHALL NOT BE SPLICED WITHIN THE COLUMN OR WITHIN A DISTANCE OF TWICE THE MEMBER DEPTH FROM THE FACE OF THE COLUMN. THE SPLICED LENGTH SHALL NOT BE LESS THAN 1.4 TIMES THE DEVELOPMENT LENGTH (L_d) IN 4.2.8 BELOW BUT NOT LESS THAN 600mm.

C. COLUMNS LAP SPLICES SHALL BE MADE WITHIN THE CENTER HALF OF HEIGHT AND THE SPLICE SHALL NOT BE LESS THAN 30 BAR DIAMETER. WELDING OR THE USE OF APPROVED MECHANICAL DEVICES MAY BE PERMITTED PROVIDED NOT MORE THAN ALTERNATE BARS ARE WELDED OR SPLICED AT ANY LEVEL AND THE MINIMUM VERTICAL DISTANCE BETWEEN TWO ADJACENT BAR SPLICES SHALL BE 600mm.

4.2.5 UNLESS OTHERWISE INDICATED: ALL BEAMS TERMINATING AT A COLUMN SHALL HAVE TOP AND BOTTOM BARS EXTENDING TO THE FAR FACE OF THE COLUMN, TERMINATING IN A STANDARD 90 HOOK LENGTH OF ANCHORAGE SHALL NOT BE LESS THAN 600mm.

4.2.7 SHOP DRAWING FOR REINFORCEMENT SHALL BE SUBMITTED FOR APPROVAL OF THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION.

4.2.8 DEVELOPMENT LENGTH (L_d) OF REINFORCING BARS SHALL BE AS FOLLOWS:

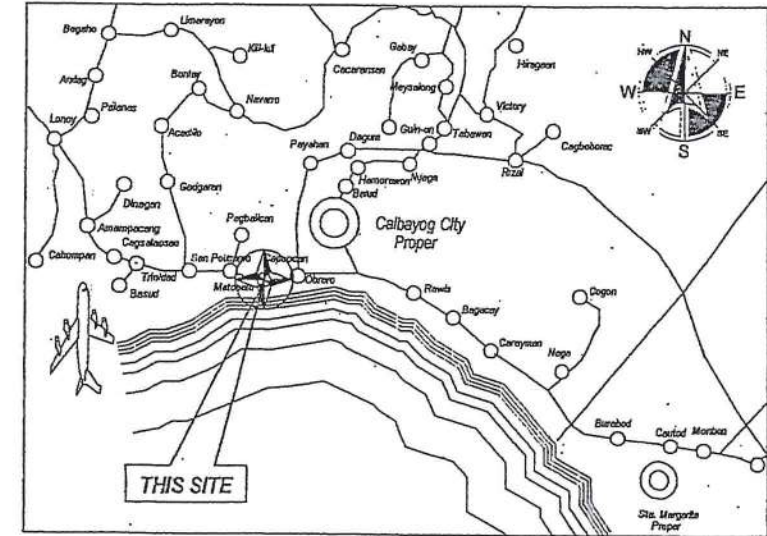
SIZE OF BARS	DEVELOPMENT LENGTH
10 mm	170 mm
12 mm	220 mm
16 mm	279 mm
20 mm	380 mm
25 mm	600 mm

5.0 CONSTRUCTION JOINTS

5.1 CONSTRUCTION JOINT NOT INDICATED ON THE PLANS SHALL BE MADE SO AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE AND SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER EXCEPT SLAB ON GRADE.

5.2 UNLESS SHOWN OTHERWISE, SLAB ON GRADE SHALL HAVE CONTROL JOINTS SPACED AT 600mm MAXIMUM CENTER TO CENTER.

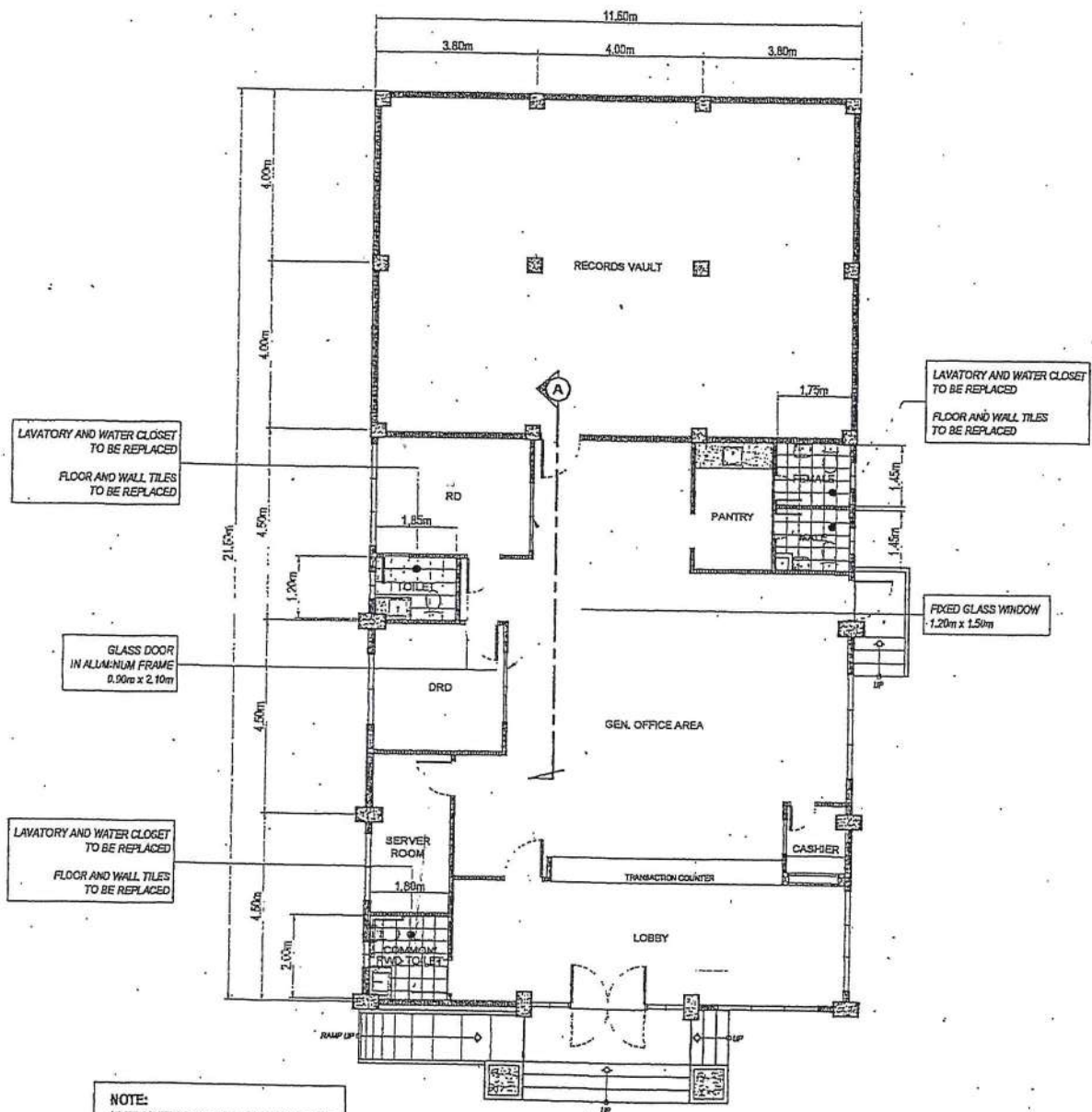
5.3 BEAMS CONSTRUCTION JOINT SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE SPAN. IT SHALL BE PROVIDED WITH 3 EXTRA STIRRUPS @ 75mm O.C. EACH SIDE OF THE JOINT.



LOCATION MAP

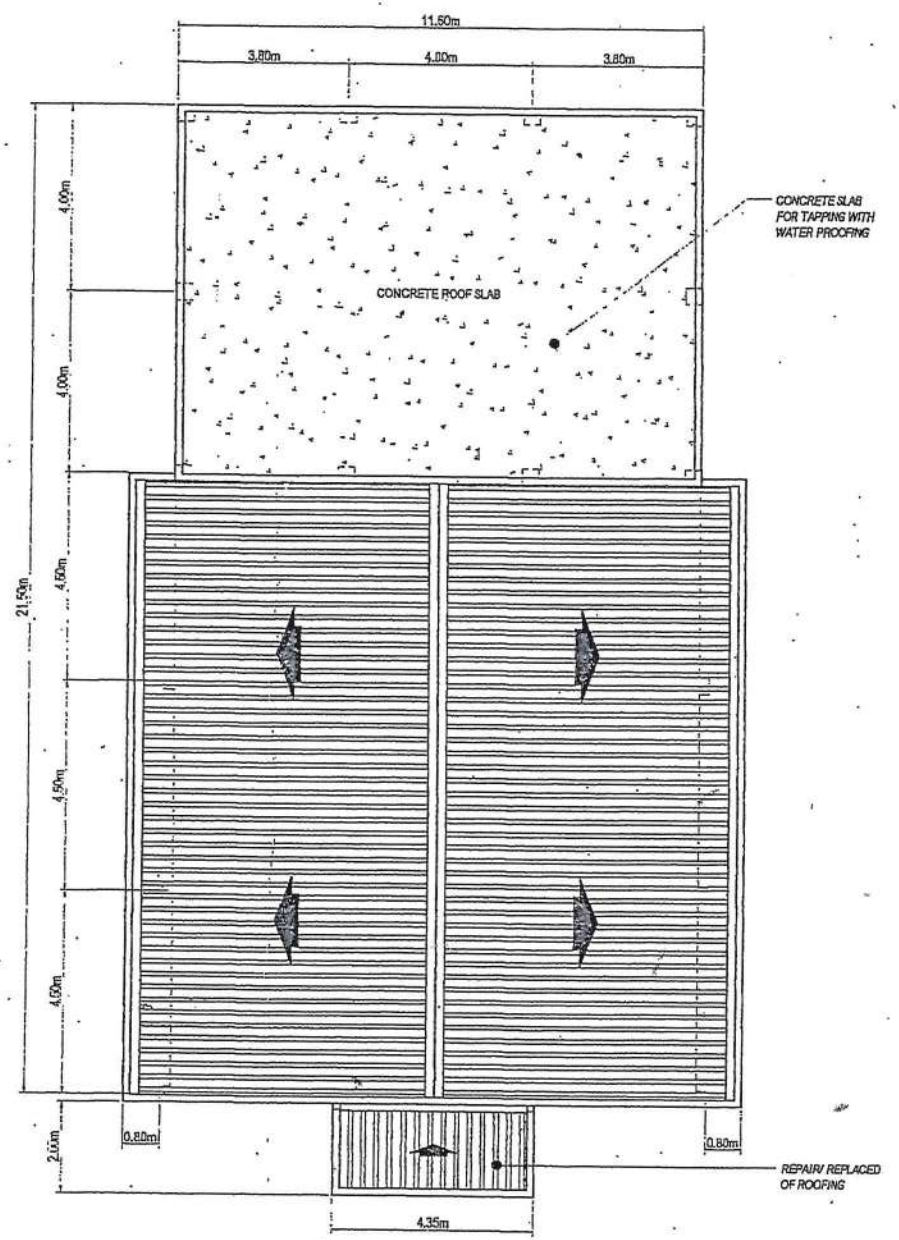
SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
PART A	PLAIN and REINFORCED CONCRETE WORKS		
903 (2)	Formworks and Falseworks (for One-Story Build	sq.m	158.88
PART B	FINISHINGS AND OTHER CIVIL WORKS		
1002 (27)	Plumbing Works	L.sum	1.00
1003 (1)	Fiber Cement Board on Metal Frame Ceiling	sq.m	33.30
1007 (1)b	Aluminum Framed Glass Door	sq.m	5.67
1010 (4)	Wooden Doors	L.sum	1.00
1012 (5)c	Tempered Glass Walls/Barri	sq.m	2.88
1014	Prepainted Metal Sheets (Rib Type, Short Span)	sq.m	69.78
1016(1)b	Liquid Waterproofing	sq.m	92.80
1018 (1)	Glazed Tiles and Trims	sq.m	64.56
1018 (2)	Unglazed Tiles	sq.m	16.51
1021 (3)	Floor Topping	sq.m	92.80
1027 (1)	Cement Plaster Finish	sq.m	328.60
1032 (1)a	Painting Works (Masonry/Concrete)	sq.m	738.00
1032 (1)b	Painting Works (Wood)	sq.m	46.90
1042(1)	Stainless Steel Door and Frames (Roll-Up)	sq.m	8.71
1043(1) (4)	PVC Doors and Frames	sq.m	6.72
PART C	ELECTRICAL WORKS		
1100 (10)	Conduits, Boxes & Fittings	L.sum	1.00
1101 (33)	Wires & Wiring Devices	L.sum	1.00
1103 (1)	Lighting Fixtures & Lamps	L.sum	1.00
PART D	OTHER GENERAL REQUIREMENTS		
D.1	Project Billboard/Signboard	each	1.00
D.2	Occupational Safety and Health Program	L.sum	1.00
D.3	Mobilization/Demobilization	L.sum	1.00

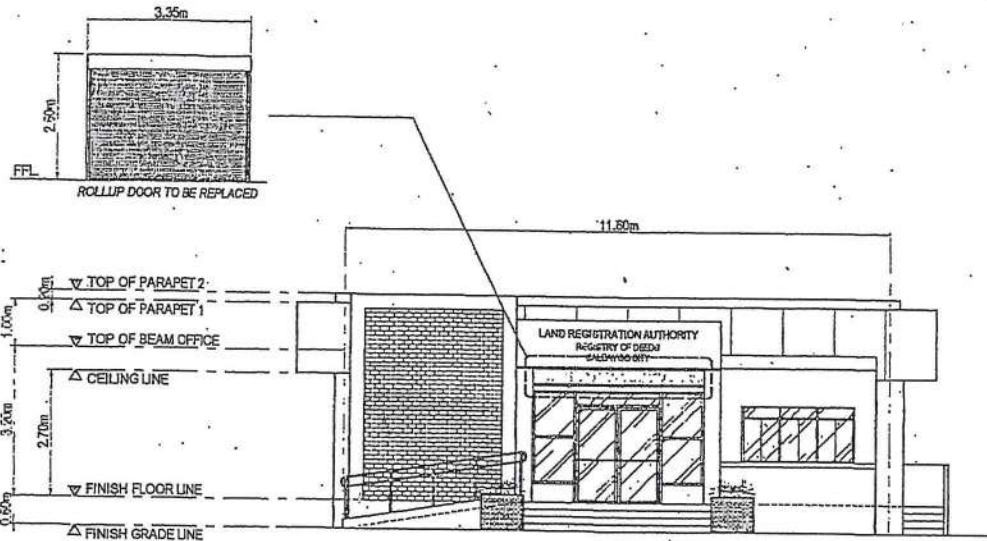


NOTE:
*REPAINTING OF ALL EXTERIOR AND INTERIOR WALL

FLOOR PLAN
SCALE 1:100 M

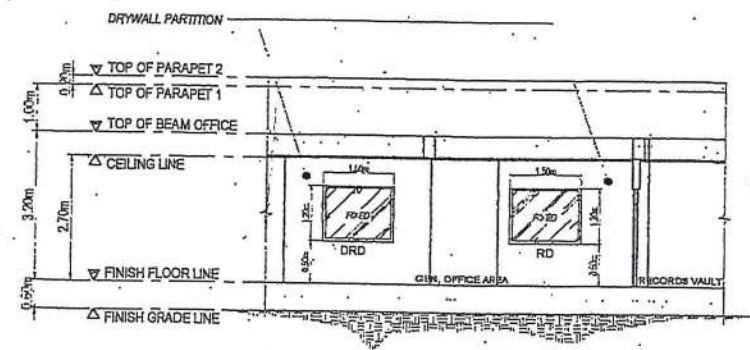


ROOF PLAN
SCALE 1:100 M

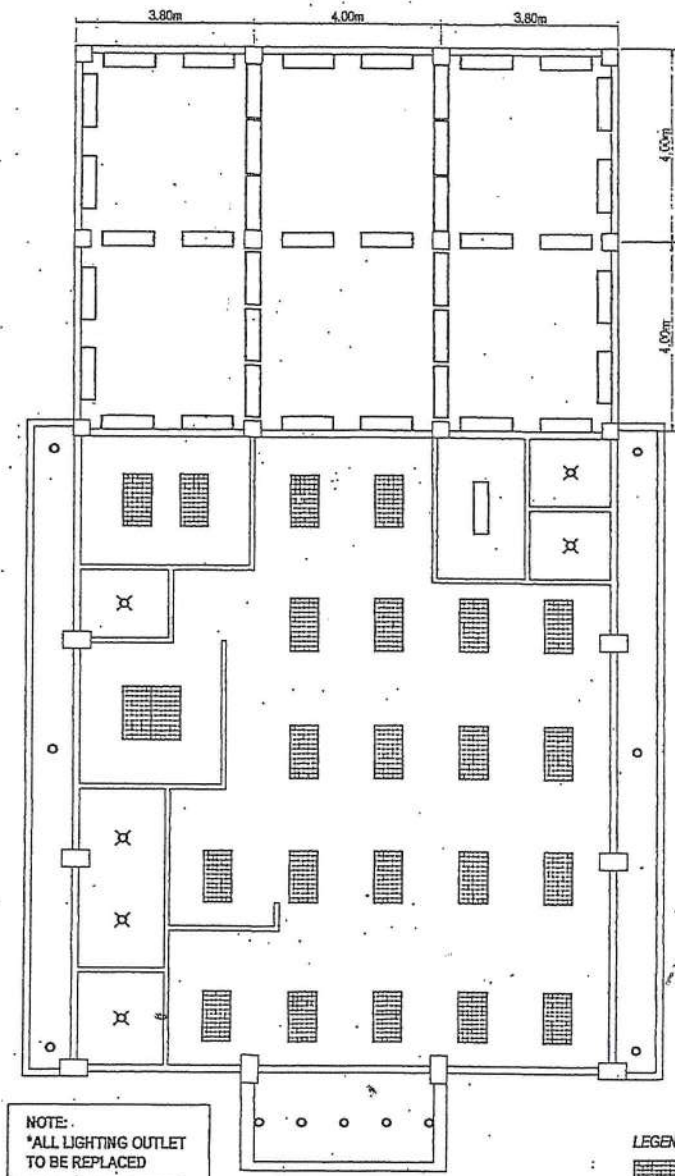


NOTE:
*REPAINTING OF ALL EXTERIOR AND INTERIOR WALL

FRONT ELEVATION
SCALE 1:100 M



SECTION THRU "A"
SCALE 1:100 M



NOTE:
*ALL LIGHTING OUTLET TO BE REPLACED

LIGHTING OUTLET LAYOUT
SCALE 1:100 M

WALL FAN (18 UNITS)
- 4 UNITS @ EVERY POST with 4 FACES
- 1 UNIT @ EVERY POST with 1 FACE

- LEGEND:**
- 2x4W FLUORESCENT LAMP WITH TROFFER TYPE DIFFUSER
 - RECESSED PINLIGHT WITH 18W PL LAMP
 - SURFACE MOUNTED FLUORESCENT FIXTURES WITH 1x4W LAMP
 - KEYLESS PORCELAIN RECEPTACLE WITH 18W PL LAMP

FOR REPAINTING
(All Exterior Wall)



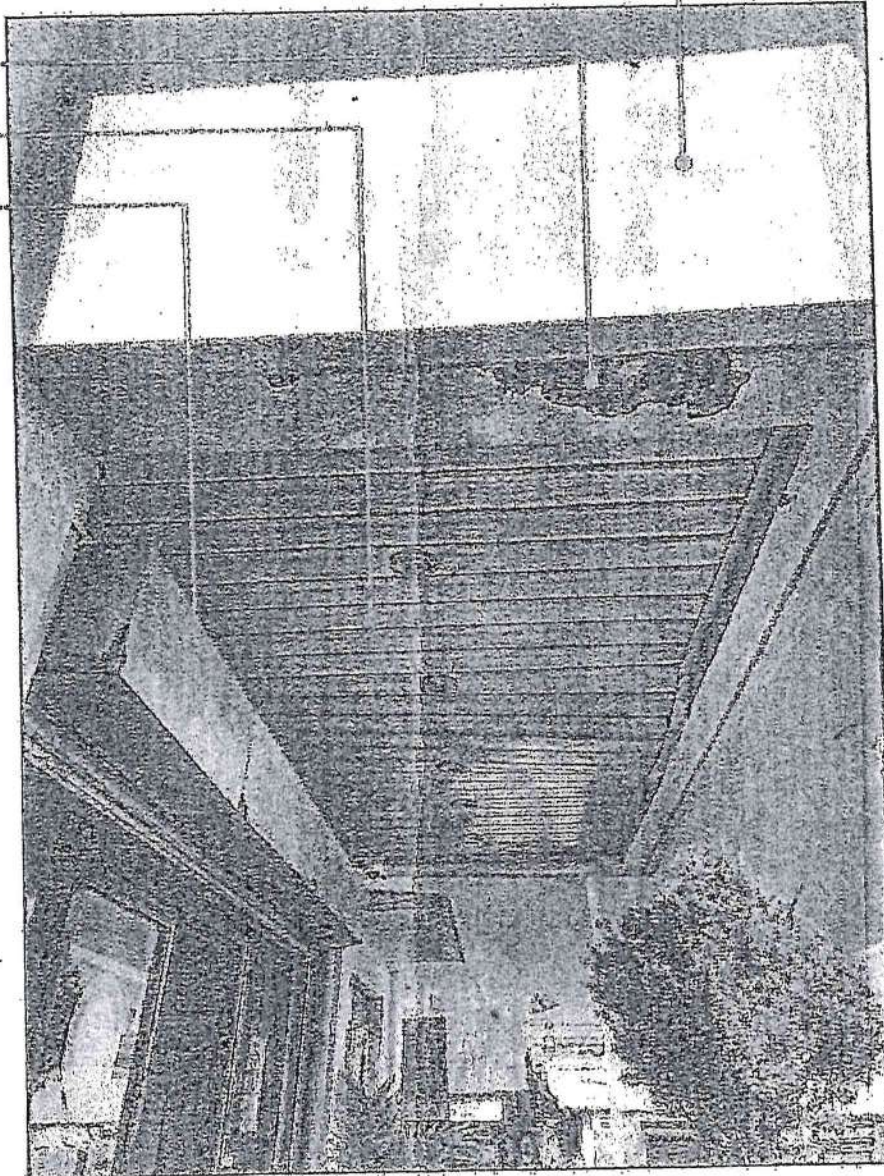
FRONT VIEW

FOR REPAINTING
(Parapet Wall)

FOR PLASTERING
(Concrete Beam)

FOR REPAIR
(Exterior Ceiling)

FOR REPLACEMENT
(Rollup Door)

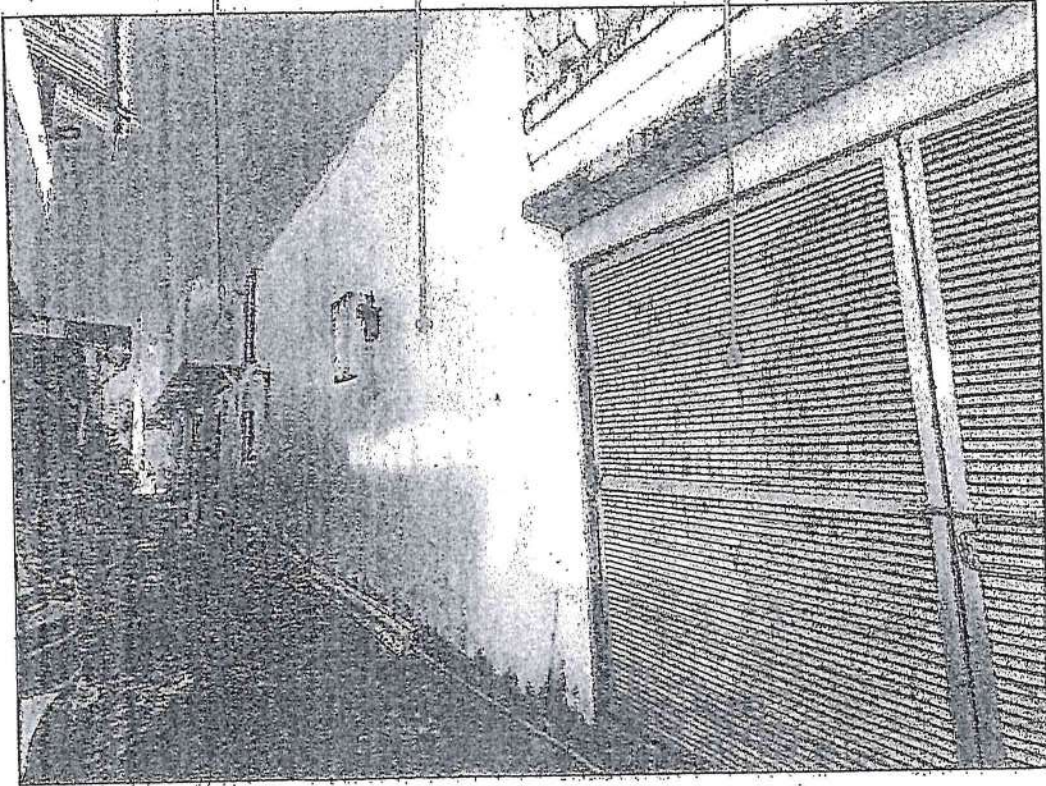


MAIN ENTRANCE

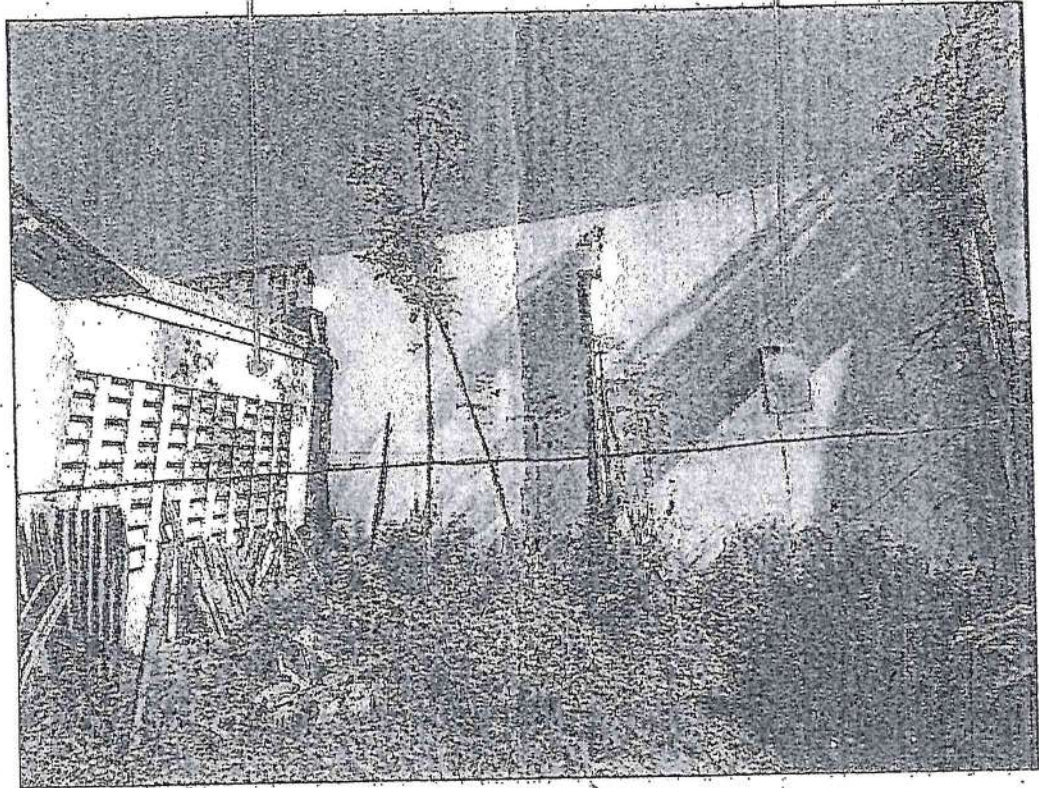
FOR REPAINTING
(All Exterior Wall)

FOR REPAINTING
(Steel Door)

FOR REPAINTING
(All Exterior Wall)



RIGHT SIDE VIEW

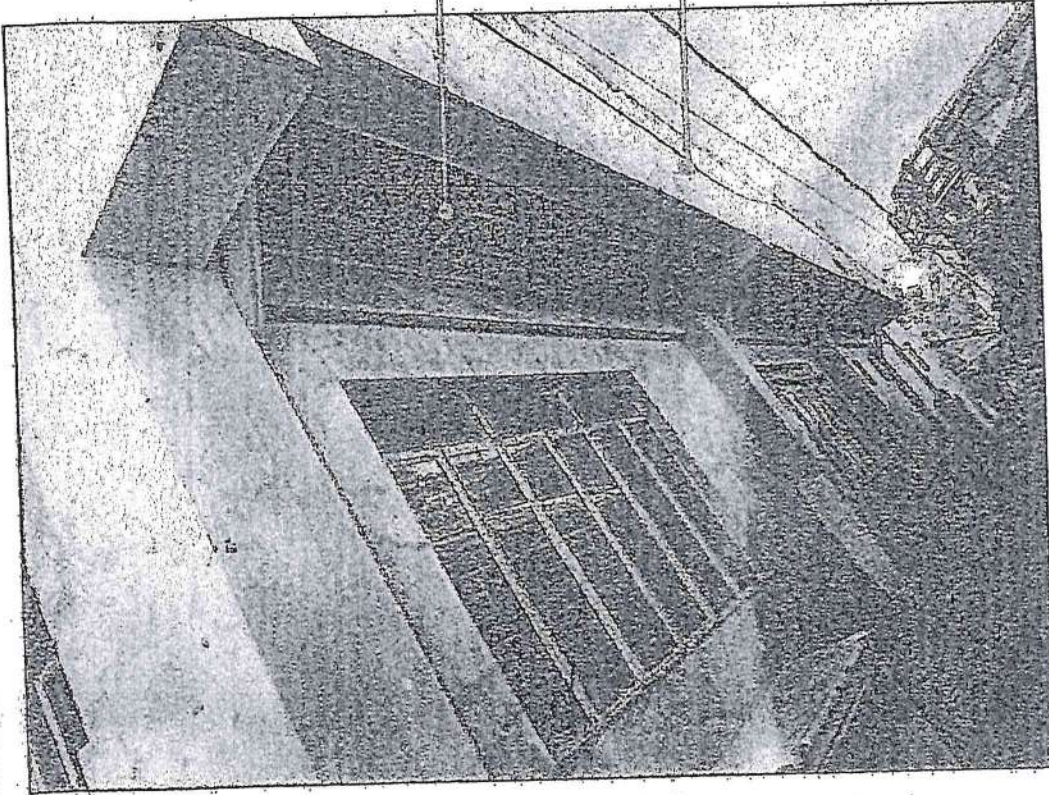


REAR VIEW

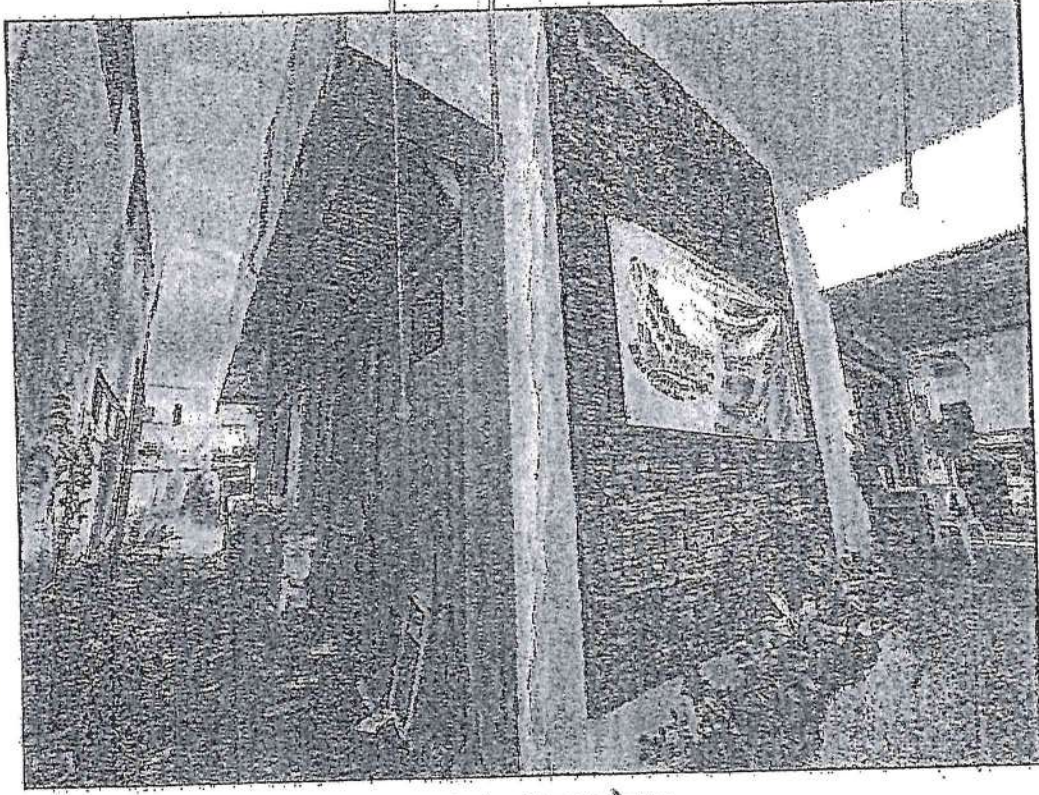
FOR REPAIR
(Exterior Ceiling)

FOR REPAIRING
(All Exterior Wall)

FOR REPAIRING
(All Exterior Wall)



RIGHT SIDE VIEW



LEFT SIDE VIEW