

Proposed Structure List

	Type of Structure
1	Rehabilitation of First Floor OF Kopratif Market



Note:

- 1- All dimensions are in meter unless otherwise specified in the drawing
- 2- Location of the structure, setting out and elevations to be confirmed by the engineer before construction.
- 3- The contractor shall construct and maintain all necessary diversions and other temporary works necessary to ensure that irrigation water supplies are not interrupted during construction works
- 4- All elevation are based on standard benchmarks established along canal.
- 5- Coordinates and elevation of benchmarks are provided in a separate drawing sheet
- 6- Contraction joint in concrete coping at wall top shall be provided at 1.5m centers

ABADEI/IRW/UNDP
AREA-BASED APPROACH TO DEVELOPMENT
EMERGENCY INITIATIVE

PROJECT:

Market Rehabilitation

Country Name: Afghanistan

Province Name: Farah

District Name:

Village Name:

DRAWING NANE:

Legend

DRAWING NO:

REVISION NO:

Surveyed By: Suhrab Amini

Designed By: Suhrab Amini

Drawn By: Suhrab Amini

Checked By: Country Office Technical Team

Cross Checked By: Program

Reviewed By: UNDP Technical Team

Drawing Scale: As Shown

Date: Feb / 2024

LEGEND:-

	Center Line
	Direction of flow
	Dry Stone Pitching/Section
	Grouted Stone Masonry/Pitching Section
	Proposed Canal Consolidation
	Existing Culvert
	Purposed Culvert
	Proposed Water Divider
	Wash/River Bed Material
	Geotextile Mattress
	Plain Cement Concrete
	Reinforced Cement Concrete
	Bank Protection
	Compacted Soil
	Hill
	H.F.L / M.W.L
	Elevation of the point is (100m) in section veiw
	Elevation of the point (100m) in Plan view
	Traverse Station
	Benchmark
	Lined Slope
	Earthen Slope
	Ground Level
	Stone Pitching/Rip Rap

ABBREVIATION:-

Av	AVERAGE	ST	STATION
BM	BENCH MARK	THK	THICKNESS
B	WIDTH	TYP	TYPICAL
C/C	CENTER TO CENTER	HFL	HIGH FLOOD LEVEL
D	DEPTH OF WATER	U/S	UPSTREAM
DRG	DRAWING	YRS	YEARS
DIA , Ø	DIAMETER	Q	DESIGN DISCHARGE
D.W.L	DESIGN WATER LEVEL	W.L	WATER LEVEL
D/S	DOWNSTREAM	N.T.S	NOT TO SCALE
EL.	ELEVATION	TO	Turnout
F.B	FREE BOARD	GT	Gate
HFL	HIGH FLOOD LEVEL		
HT.	HEIGHT		
H.G.L	HYDRAULIC GRADE LINE		
KM , km	KILOMETERE		
M ,m	METRE		
Chkd	CHECKED		
Apprvd	APPROVED		
M . W .L	MAXIMUM WATER LEVEL		
MIN	MINIMUM		
No(s)	NUMBER(S)		
N.G.L	NATURAL GROUND LEVEL		
P.C.C	PLAIN CEMENT CONCRETE		
R.C.C	REINFORCED CEMENT CONCRETE		

BRIEF TECHNICAL SPECIFICATIONS

- 1- All Stone Masonry shall be with 1:4 Cement Sand Mortar or as specified on the drawing.
- 2- Cork and bitumen should be filled in all contraction / expansion joints according to design / drawing.
- 3- Plain cement concrete should be of ratio 1:2:4 or as specified on the drawings.
- 4- Backfilling material should be properly tested and selected to be suitable as per standard practice.
- 5- For backfilling maximum thickness of each loose soil layer should not be more than 15 cm according to general specifications.
- 6- All backfilling should be done under the supervision of site engineer .
- 7- The percentage of compaction should be not less than 95% of the maximum dry density.
- 8- All Quality control should be checked in field during construction work progress by the IRW Engineer in a continuous period.
- 9- Construction joints for walls should be provided as (10-15)m centre to centre.
- 10-Stone masonry work with mortar, mortar ratio cement:sand (1:4) Mortar for pointing is (1:3)
- 11- Concrete shuttering/formwork should be of Steel or smooth wood plate type.
- 12- Concrete shuttering can be removed as per below minimum duartion:

Side of beams,walls,columns16-24 hours

Forms from beneath the slabs(spaning upto 6m) 14 days

Forms from beneath the slabs(spaning above 6m) 21days
- 13- Bitumen or other materials for joint should be used in all construction joints.

- 14- All PCC under Foundation to have cement, sand and aggregate ratio 1:2:4 or as specified on general specification and drawings.
- 15- Reinforcement yield strength, "fy" shall not be less than 2500 kg/cm2.
- 16- Concrete design should be based on a compressive strength of "fc" =25Mpa.
- 17- Weight per unit volume of concrete W=2400 kg/m3
- 18- Sand or fine aggregate shall be free from salt, alkali, calcium sulphate clay.
- 19- Aggregate:- Coarse aggregate shall consist of crushed gravel with the max. size of 20mm.
- 20- The maximum slump for concrete should be between (5-7.5) cm. (for different concrete types refer to general specifications or concrete mix design).
- 21- To increase the workability of the concrete provide the chemical admixture (Super plasticizer, if required.)
- 22- Water used for concrete mixture and concrete curing shall be from a source approved by the Engineer and at the time of use shall be free from polluting matter.
- 23- Concrete compaction should be done by using concrete vibrator at the time of pouring in such a way to form a solid compact concrete.
- 24- Concrete curing should be continued for 28 days.
- 25- During Cold weather concreting should be stopped or the contractor has to consider cold weather concreting procedure as accepted by the engineer. (Or refer to general specification).



Note:

- 1- All dimensions are in meter unless otherwise specified in the drawing
- 2- Location of the structure, setting out and elevations to be confirmed by the engineer before construction.
- 3- The contractor shall construct and maintain all necessary diversions and other temporary works necessary to ensure that irrigation water supplies are not interrupted during construction works
- 4- All elevation are based on standard benchmarks established along canal.
- 5- Coordinates and elevation of benchmarks are provided in a separate drawing sheet
- 6- Contraction joint in concrete coping at wall top shall be provided at 1.5m centers
- 7- Stone should be selected from quarry having angular shape for proper interlocking, rounded stone from bed or otherwise should be rejected.

ABADEI/IRW/UNDP
AREA-BASED APPROACH TO DEVELOPMENT
EMERGENCY INITIATIVE

PROJECT:

Market Rehabilitation

Country Name: Afghanistan

Province Name: Farah

District Name: Center

Village Name: Center

DRAWING NANE:

Specification

DRAWING NO:

REVISION NO:

Surveyed By: Suhrab Amini

Designed By: Suhrab Amini

Drawn By: Suhrab Amini

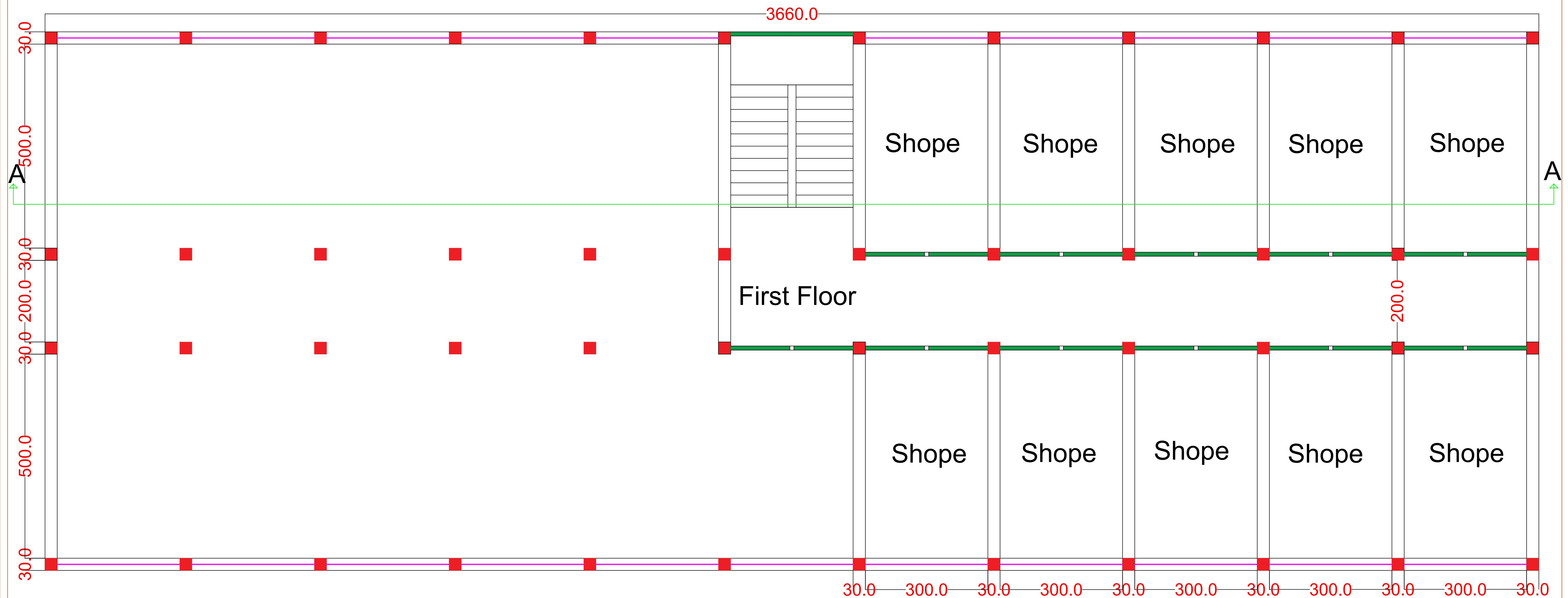
Checked By: Country Office Technical Team

Cross Checked By: Program

Reviewed By: UNDP Technical Team

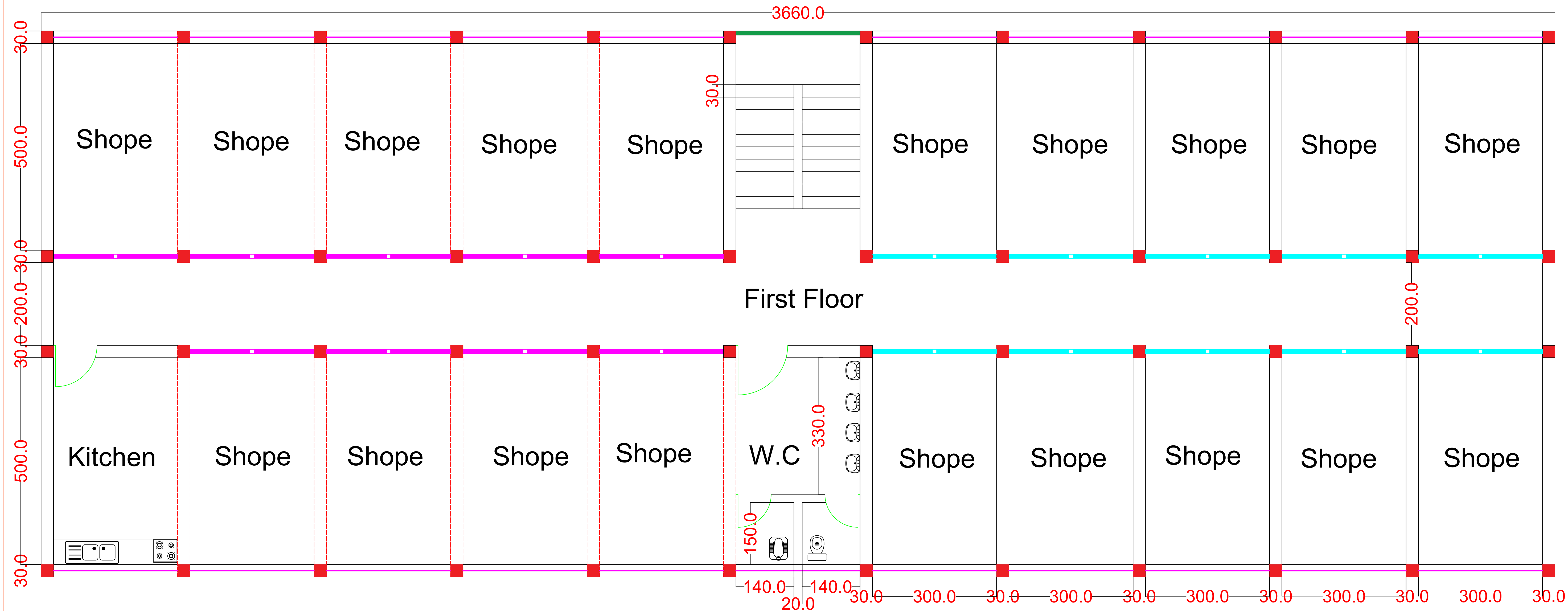
Drawing Scale: As Shown

Date: Fb / 2024



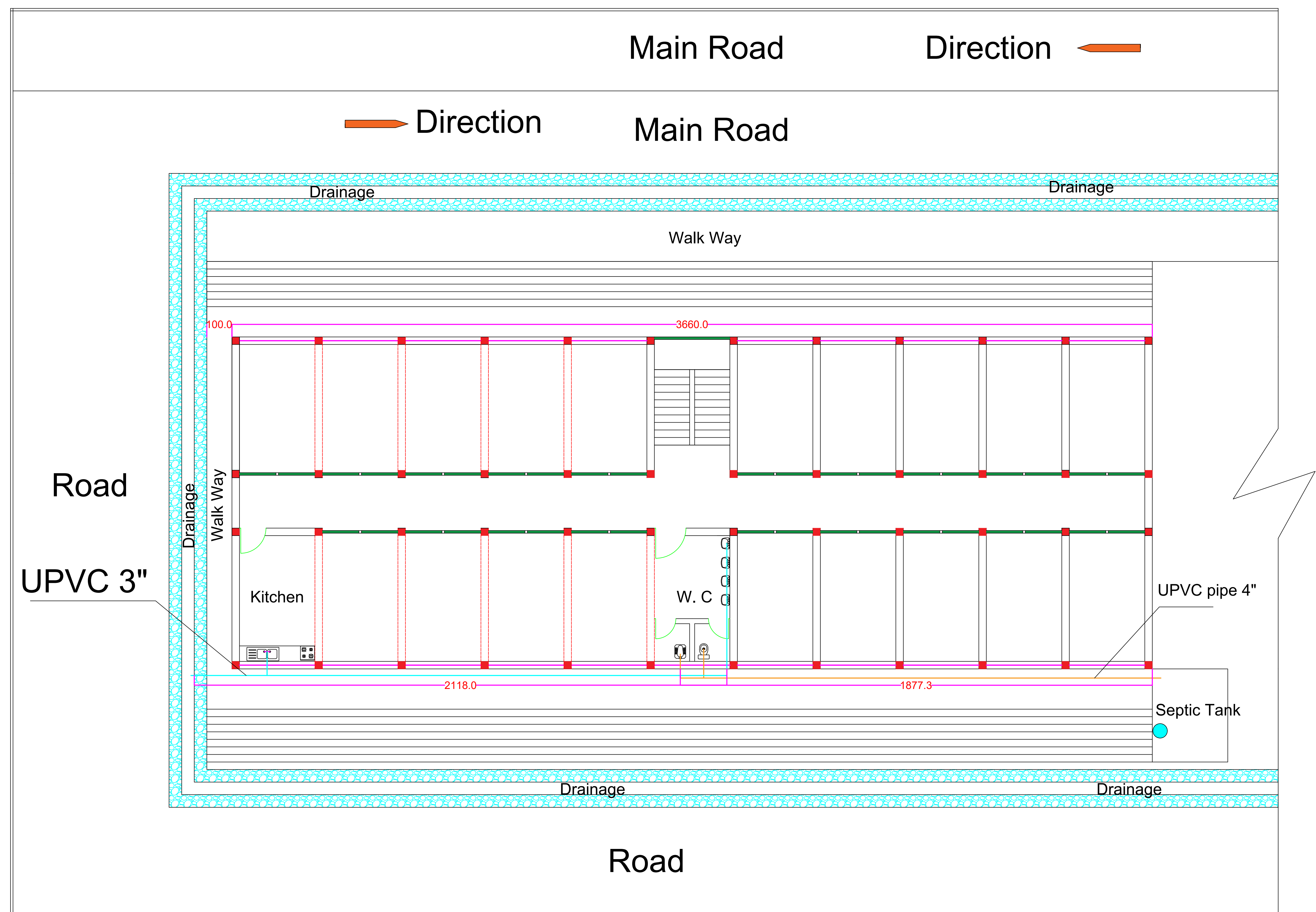
Existing First Floor Plan

After Rehabilitation First Floor Plan

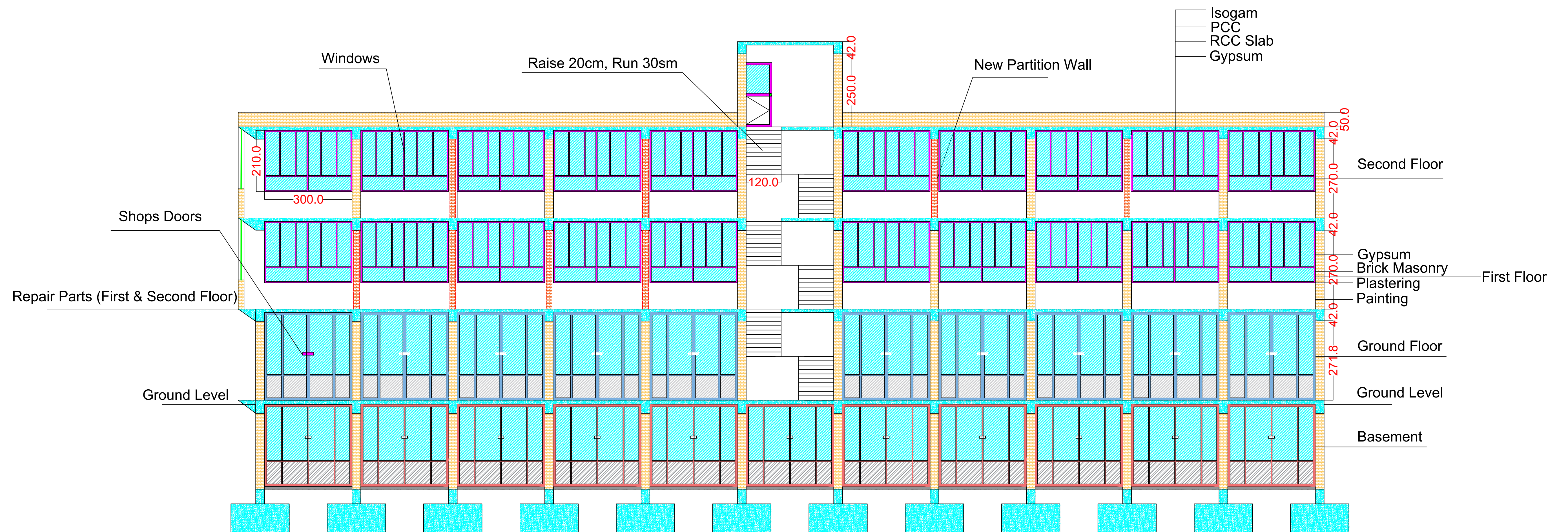


Legend:

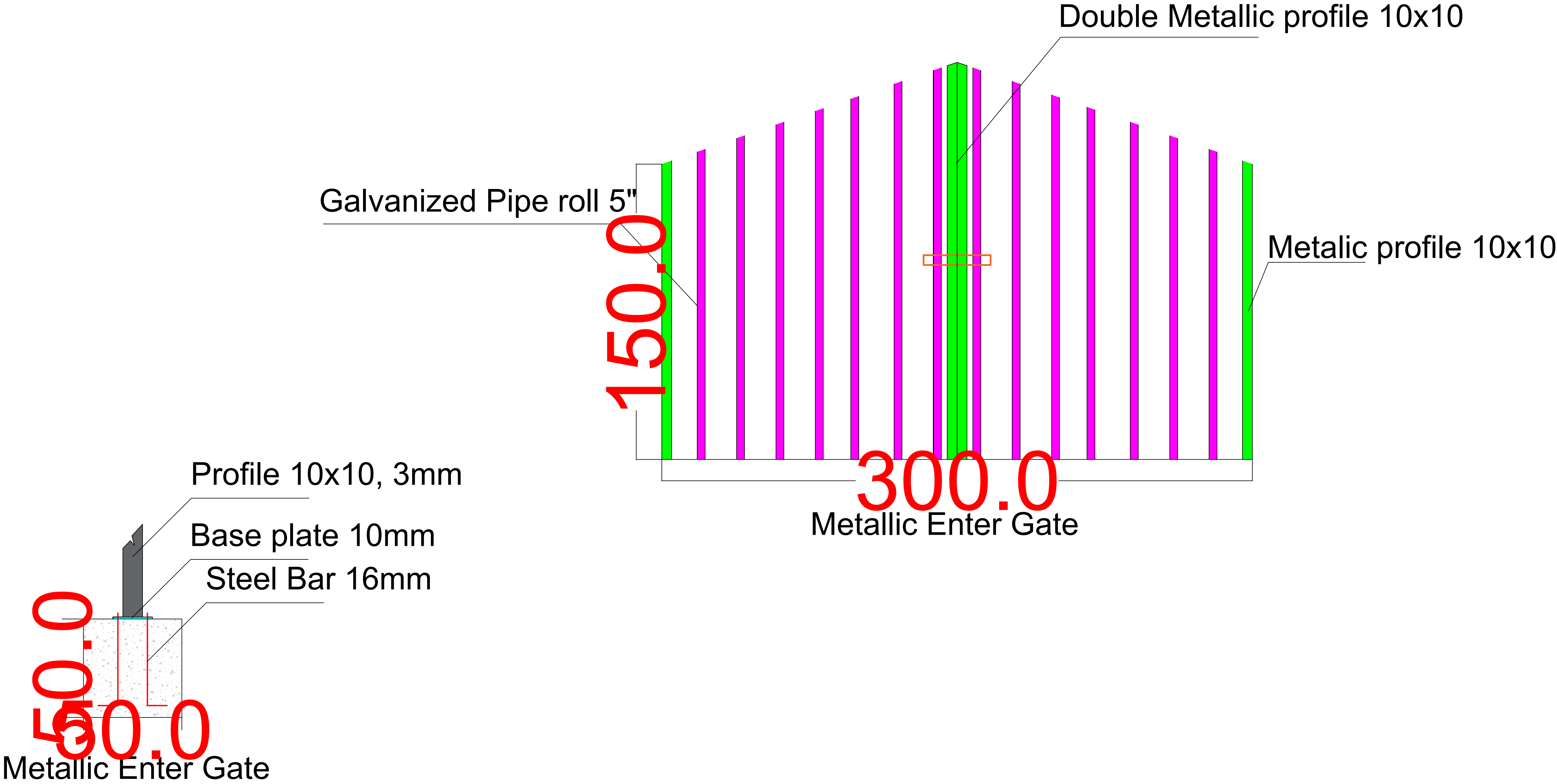
- New 20cm Partition Wall
- Existing Doors to be install
- Installed Existing Doors

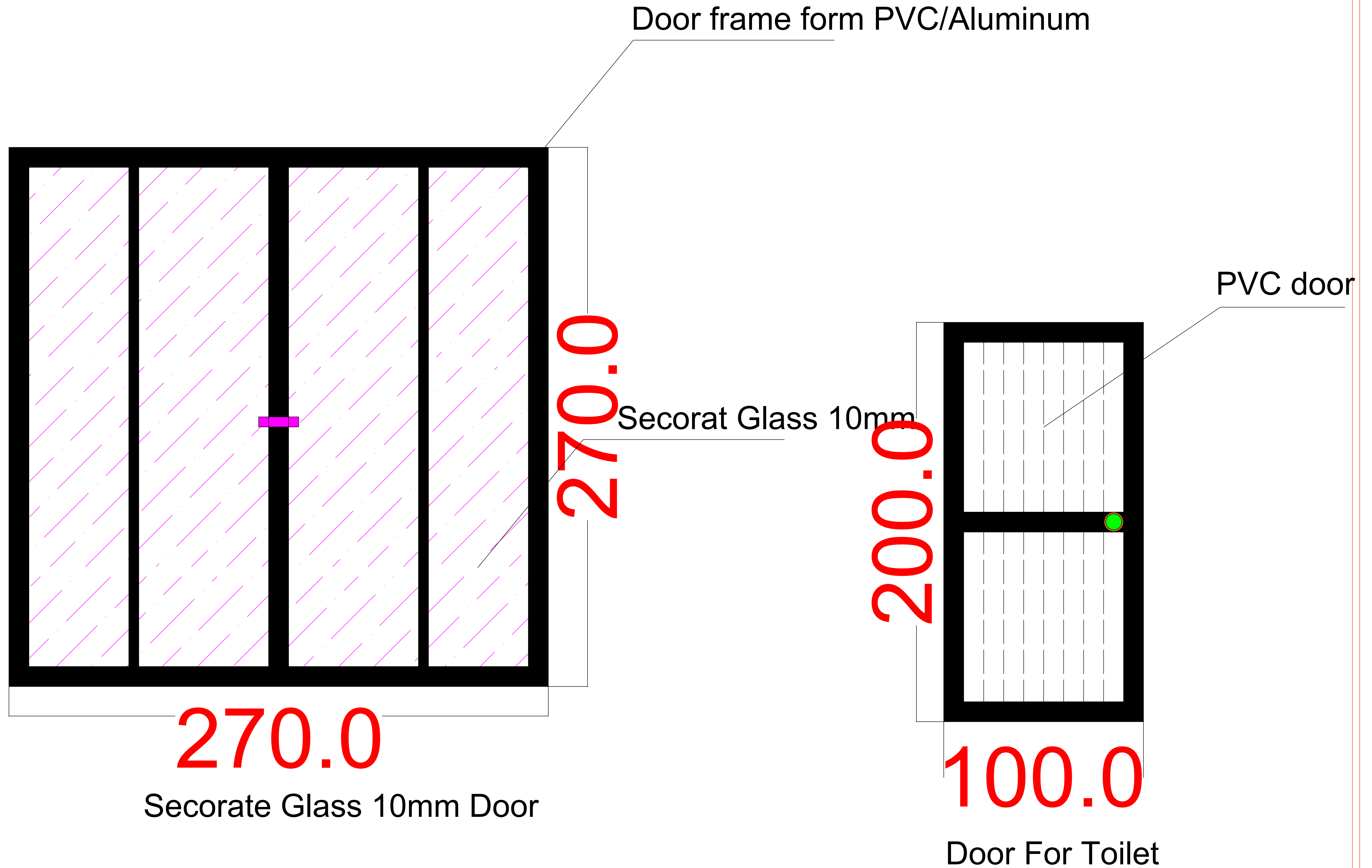


Water Supply & Waste Water and Site Plan



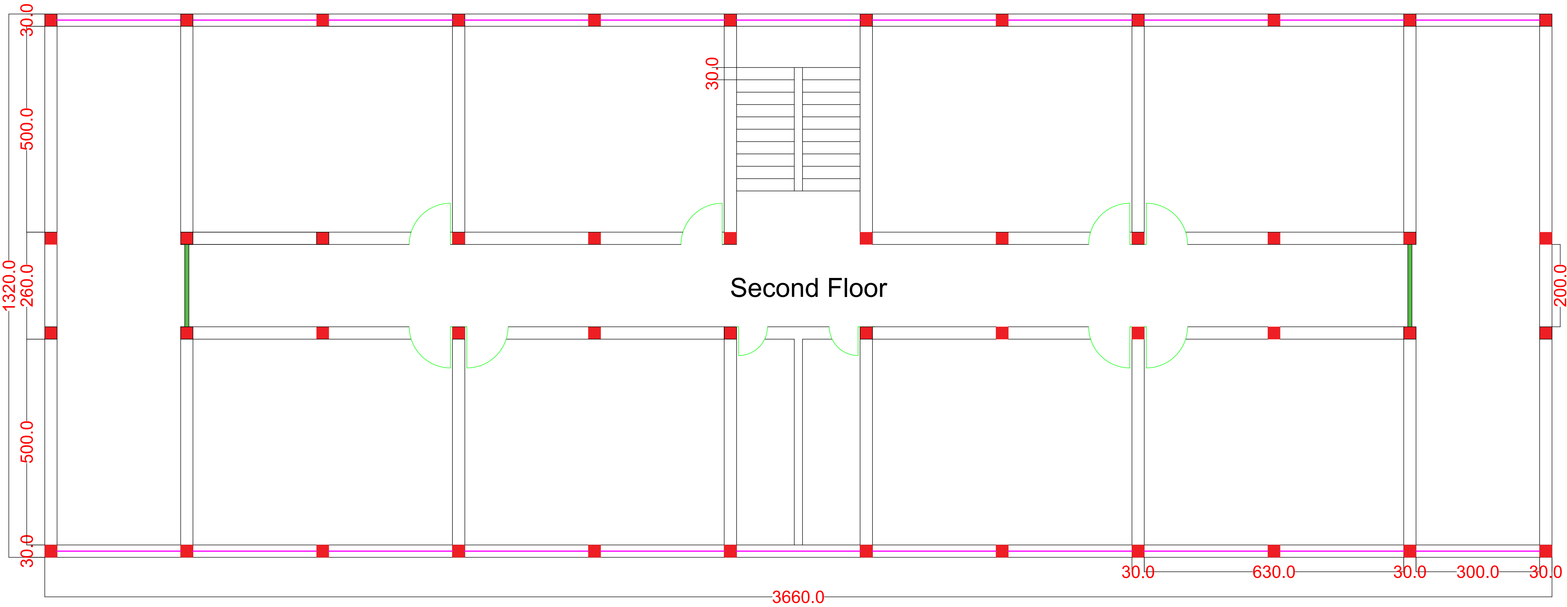
Longitude Section A-A





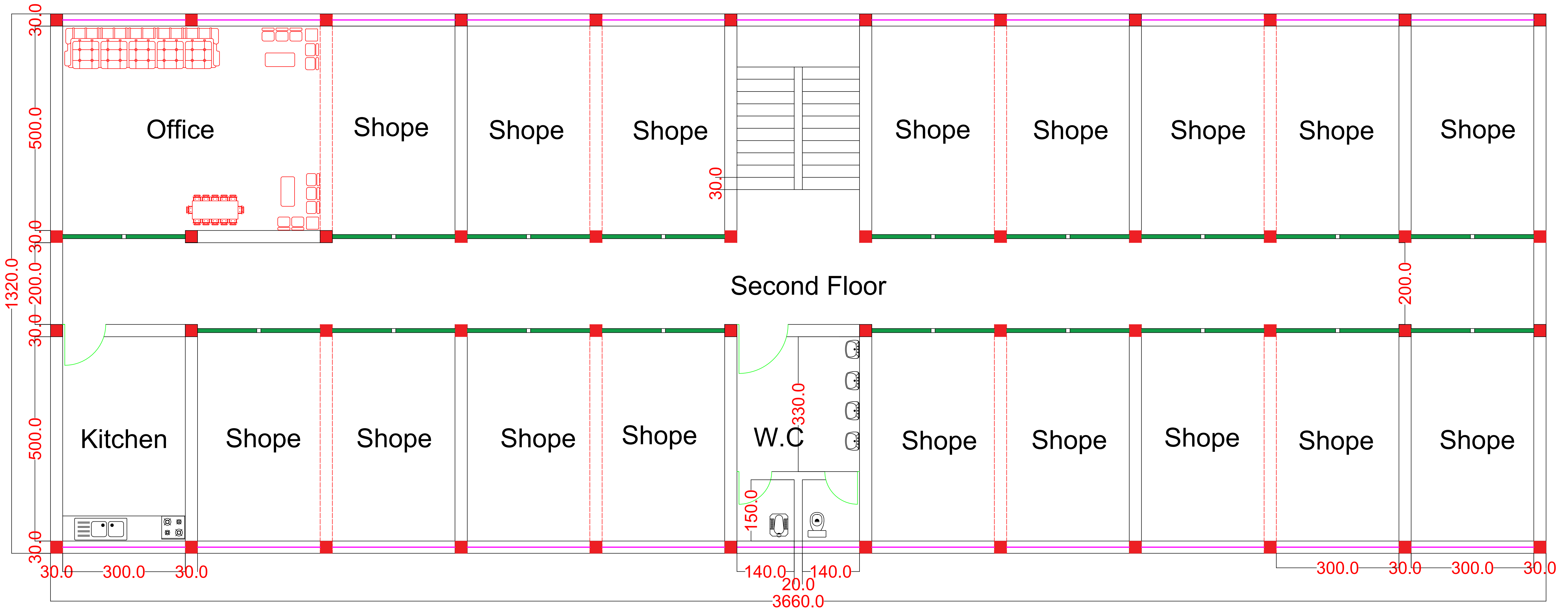
Proposed Structure List

	Type of Structure
1	Rehabilitation of Second Floor OF Kopratif Market



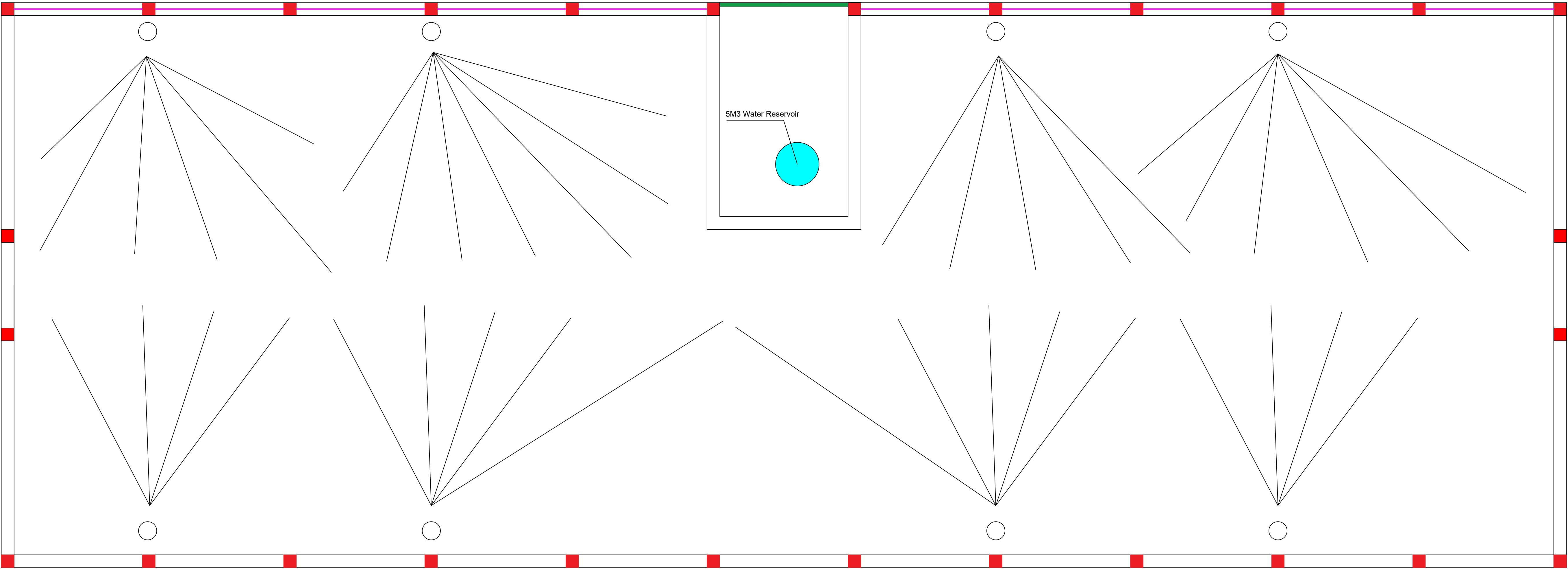
Existing Second Flood Plan

After Rehabilitation Second Floor Plan

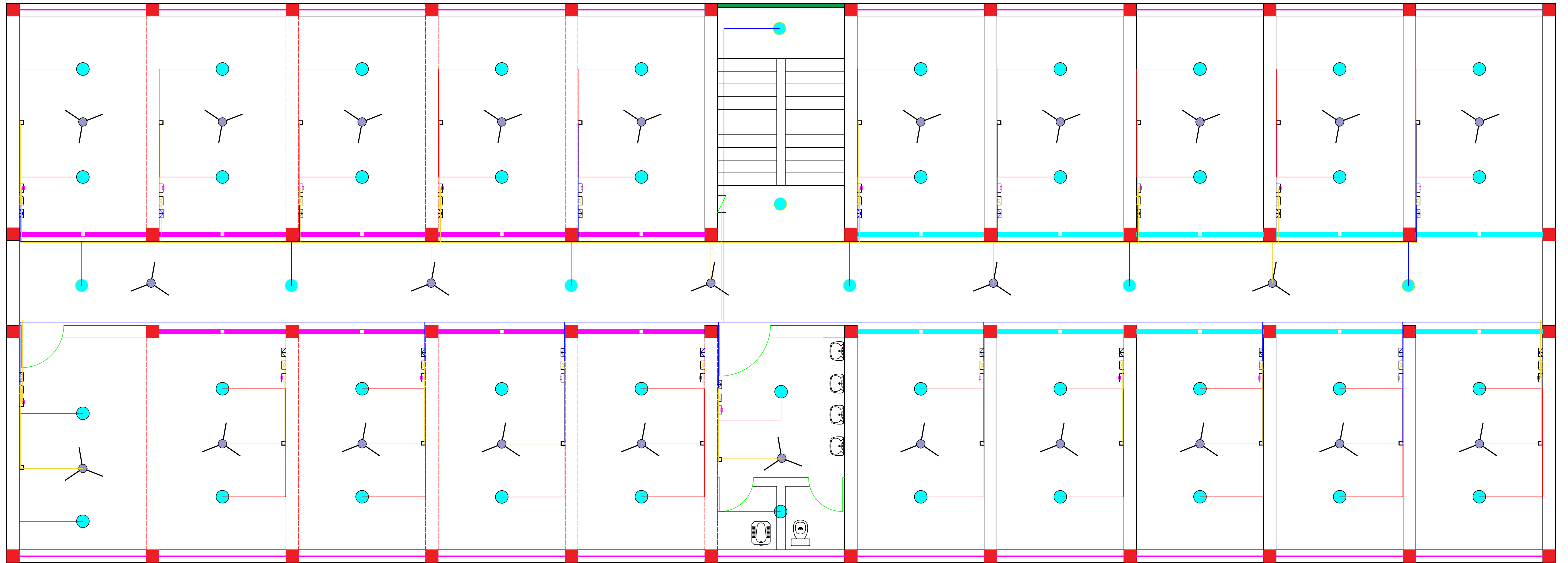


Legend:

- New 20cm Partition Wall
 New 10mm Glass Doors



Roof Plan



Legend:

- Lump
- Fan
- Distribution Box
- Swatch
- Socket
- Fan Swatch

Legend:

- 2.5mm Wire
- 1.5mm Wire
- 1.5mm Wire

Wire Plan

