

GDI ENGINEERING



4-Story Mixed-Use Development 156 N. 9th St.

Mixed use

Brooklyn, New York

4-Story Mixed-Use Development 156 N. 9th St.

Client: DAmore Studio

Location: Brooklyn, New York

Surface area: 4,000 SF



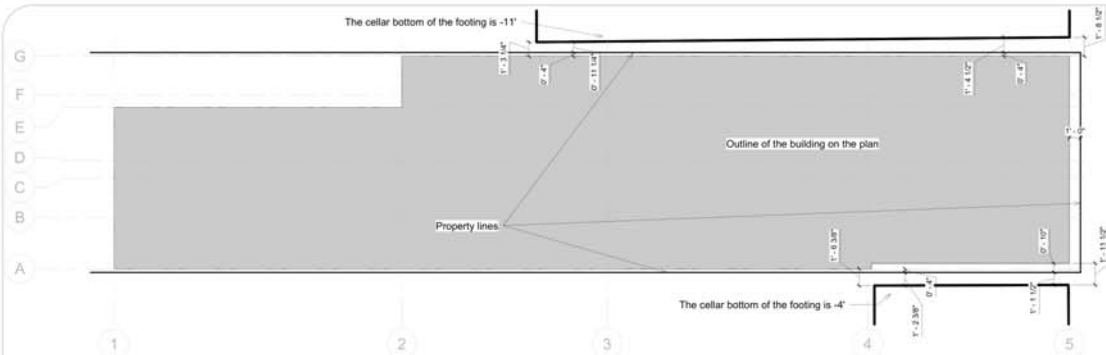
About 4-Story Mixed-Use Development

GDI Engineering team provided comprehensive Structural, MEP, Fire Sprinkler, and Solar Design services for a proposed 4-story mixed-use development in Brooklyn, NY. The project encompasses 4,000 SF of zoning floor area and includes both multi-family residential and retail spaces.

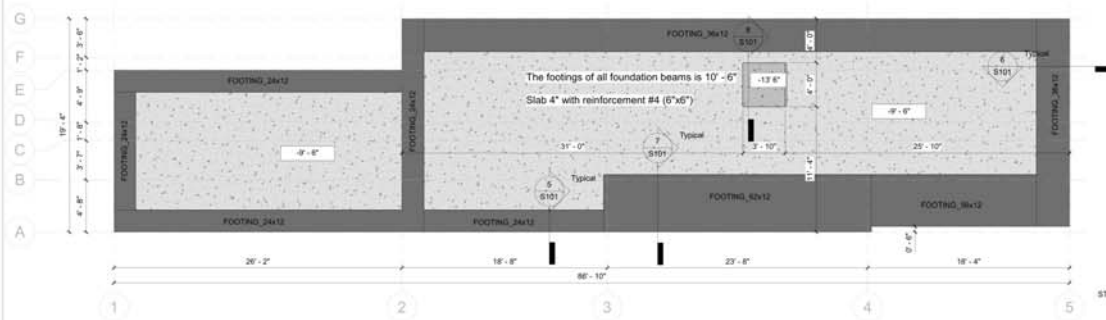
The structural design focused on ensuring the integrity and resilience of the building through detailed loading analyses, including wind, seismic, dead, and live loads. Structural modeling and engineering reports were developed to support the analysis and design of key components such as foundations, shear walls, joists, and floor slabs. Deliverables included a complete Revit model, foundation and floor plans, elevations, and structural details ensuring code compliance and construction efficiency.

The MEP scope included a full mechanical design for air conditioning and ventilation, fire alarm planning, and electrical layouts optimized for apartment units, common areas, and retail spaces. The power distribution was designed to include dedicated electrical meters per unit, coordinated with architectural requirements. Plumbing design covered comprehensive water and sewer networks with options for individualized or shared water metering. Additionally, a COMcheck energy compliance report was prepared for lighting and mechanical systems. GDI Engineering's integrated approach ensured a high-performance building design, meeting regulatory standards and optimizing functionality for both residential and commercial occupants.

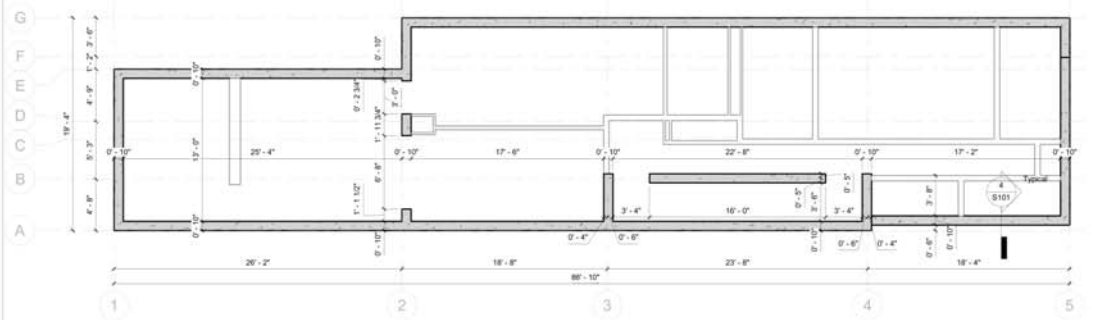
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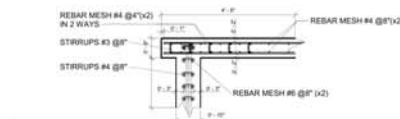
1 Plan of the relationship of the foundations of the building under construction to nearby buildings
31'0" x 1'-0"



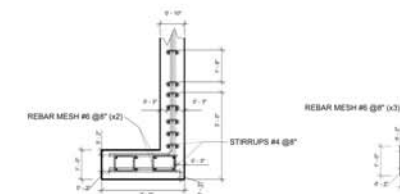
2 Beam Foundations Plan
31'0" x 1'-0"



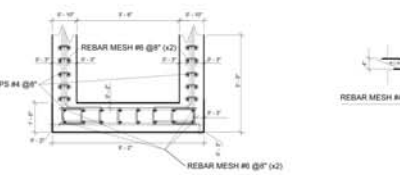
3 Cellar Wall Plan
31'0" x 1'-0"



4 Cantilever Slab
12' x 1'-0"



5 Foundation beam 1
12' x 1'-0"



7 Foundation beam 3
12' x 1'-0"

In all places of reinforcement mesh leading it goes in 2 directions

BAR	MIN BAR SPACING	MINIMUM LAP SPICE LENGTHS $f_c = 4000$ psi			
		LAPS FOR BARS SPACED GREATER THAN MIN BAR SPACING		LAPS FOR BARS SPACED CLOSER THAN MIN BAR SPACING	
		VERTICAL	OTHER	VERTICAL	OTHER
#3	3"	1'-4"	1'-6"	1'-4"	1'-6"
#4	3"	1'-3"	2'-0"	1'-8"	2'-2"
#5	3"	1'-11"	2'-6"	2'-7"	3'-4"
#6	4"	2'-4"	3'-0"	3'-8"	4'-9"
#7	4"	3'-6"	4'-0"	4'-11"	6'-5"
#8	4"	4'-7"	5'-11"	6'-6"	8'-6"
#9	4 1/2"	5'-0"	7'-6"	6'-3"	10'-9"
#10	5"	7'-4"	9'-6"	10'-6"	13'-7"
#11	5 5/8"	9'-0"	11'-8"	12'-10"	16'-8"

Safety measures during construction near neighboring buildings:
- Precipitation monitoring. Installing settlement sensors on the foundations of neighboring buildings will allow monitoring possible changes in the soil and settlement of structures.
- Limiting the speed of excavation work: During excavation work, work should be carried out gradually, taking into account monitoring the condition of the soil and the stability of the structures of adjacent buildings.
- It is necessary to monitor the condition of neighboring buildings and, if necessary, take precautions to ensure the stability of nearby buildings.
One such solution may be the installation of retaining walls or sheet piles.
This will prevent damage to neighboring buildings and ensure the stability of the soil.

PARTITION TYPES:

10" EXTERIOR WALL
POURED IN PLACE
VERTICAL BARS #6 @ 16 O.C. (2x)
HORIZONTAL BARS #6 @ 16 O.C. (2x)

6" INTERIOR/EXTERIOR STUD WALL

4" INTERIOR/EXTERIOR STUD WALL

2 1/2" INTERIOR/EXTERIOR STUD WALL

NOTE:
Boundary reinforcement in every wall region should be provided in first and last cell.
Size of the rebar for the boundary reinforcement should be the same as for the regular spacing.

156 N. 9TH STREET,
BROOKLYN, NY 11249



GDI Engineering Design
(Green Dream International LLC)
10777 Westheimer Rd, Suite 1150
Houston, TX 77042

FOUNDATION
AND
BASEMENT

Author: _____
Date: _____ Project Number: _____

S101

SHEET №



TYPICAL JOIST BEARING

2 DIFFERENT

6" @ 3/4"

1/2"

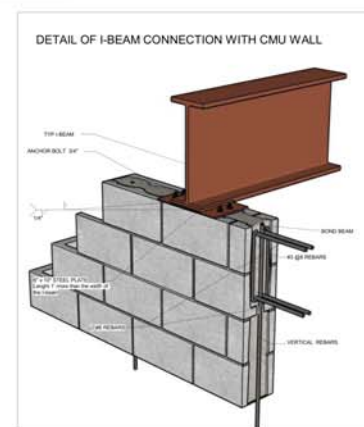
1"

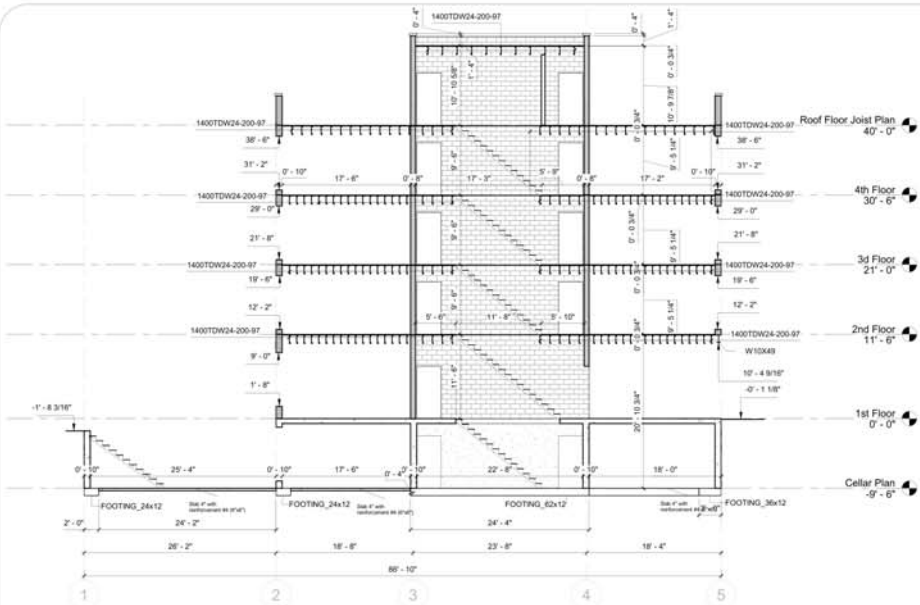
DISTANCE TO ANCHOR BOLT 1/2"

CONTINUOUS 1/4" X 1/4" ANGLE WITH 3/8" OR 1/2" ANCHOR BOLTS ALL OR 1/4" X 1/4" ANGLE TYPED AT 30"

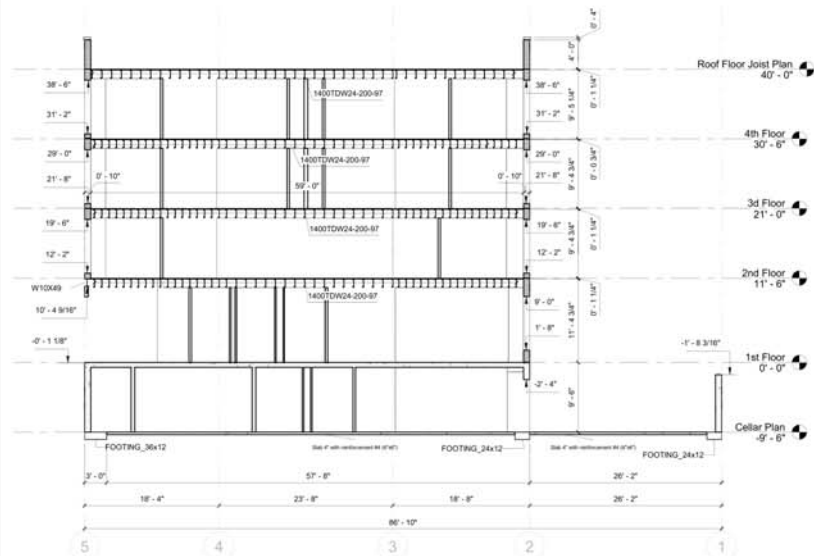
REINFORCING BARS

ROOF BEAM (24 IN. BOTTOM)

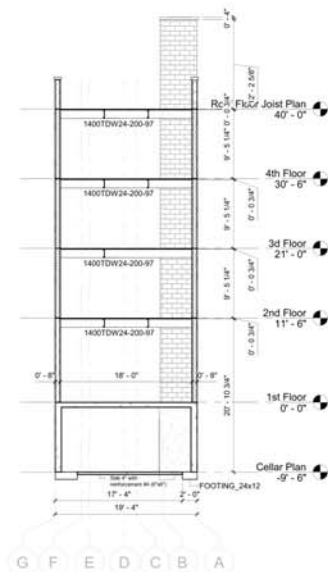




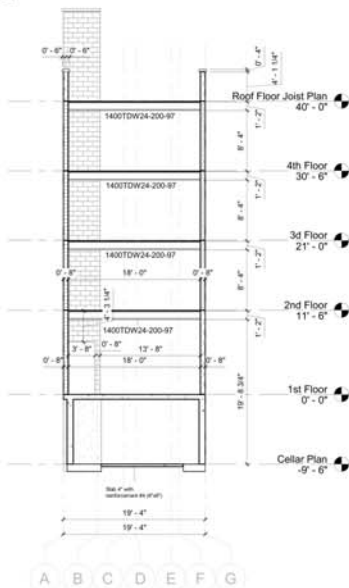
Section 1
1/8" = 1'-0"



Section 3
1/8" = 1'-0"



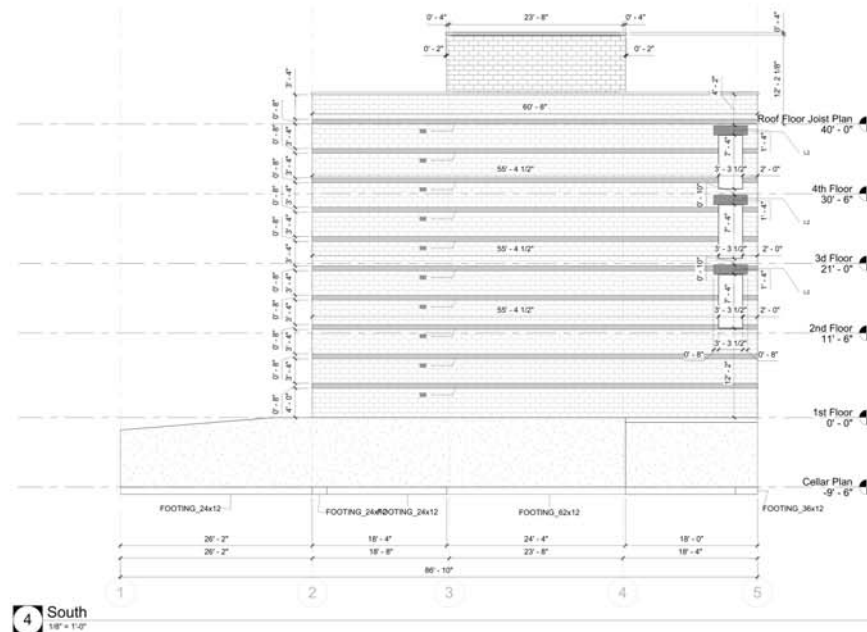
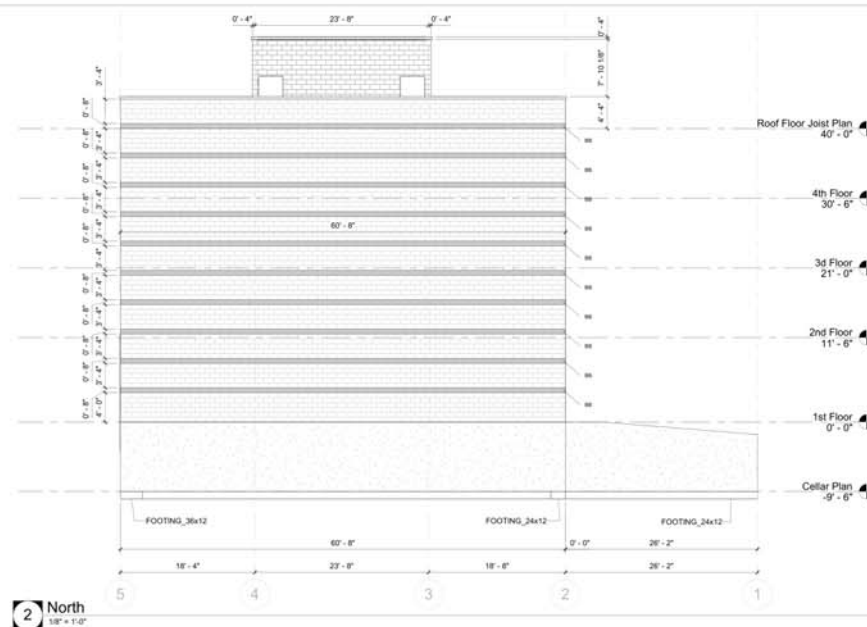
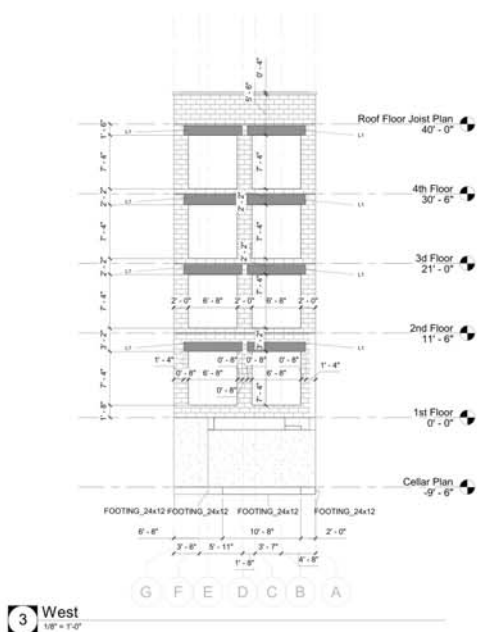
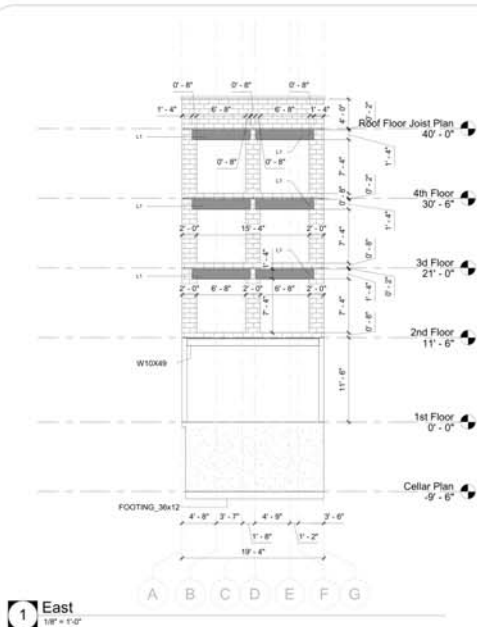
Section 2
1/8" = 1'-0"



Section 4
1/8" = 1'-0"

PARTITION TYPES:	
10" EXTERIOR WALL POURED IN PLACE VERTICAL BARS #5 @16 O.C. HORIZONTAL BARS #5 @16 O.C.	
8" INTERIOR/EXTERIOR WALL POURED IN PLACE VERTICAL BARS #5 @16 O.C. HORIZONTAL BARS #5 @16 O.C.	
10" CMU INTERIOR/EXTERIOR WALL VERTICAL BARS #8 @8 O.C. HORIZONTAL BARS #5 @16 O.C. FULLY GROUT	
8" CMU INTERIOR/EXTERIOR WALL VERTICAL BARS #5 @16 O.C. (BOTH SIDES) HORIZONTAL BARS #5 @48 O.C. FULLY GROUT	
8" CMU INTERIOR/EXTERIOR WALL VERTICAL BARS #5 @72 O.C. (BOTH SIDES) HORIZONTAL BARS #5 @48 O.C. FULLY GROUT	
6" CMU INTERIOR/EXTERIOR WALL VERTICAL BARS #5 @72 O.C. HORIZONTAL BARS #5 @48 O.C. FULLY GROUT	
6" INTERIOR/EXTERIOR STUD WALL	
4" INTERIOR/EXTERIOR STUD WALL	
2 1/2" INTERIOR/EXTERIOR STUD WALL	

NOTE:
Boundary reinforcement in every wall region should be provided in first and last cell. Size of the rebar for the boundary reinforcement should be the same as for the regular spacing.



LINTELS TYPES:	
L-1 CMU LINTEL 16" DEPTH, FLEXURE REINFORCEMENT (2)#4, SHEAR REINFORCEMENT STIRRUP #4@4" O.C	
L-2 CMU LINTEL 16" DEPTH, FLEXURE REINFORCEMENT (2)#4, SHEAR REINFORCEMENT STIRRUP #4@4" O.C	
BB - BOND BEAM REINFORCEMENT (2) #6 REBAR	

MEP PLANS

1. THE CONTRACTOR SHALL THOROUGHLY REVIEW ALL THE DRAWINGS BEFORE START OF WORK AND SHALL COORDINATE WITH ALL OTHER DISCIPLINE AND ANY DISCREPANCY APPEARS IT SHOULD BE BROUGHT TO THE CONSULTANT'S KNOWLEDGE IMMEDIATELY BEFORE START WORK.
2. NO WORK SHALL BE CARRIED OUT UNLESS SHOP DRAWING ARE PREPARED AND SUBMITTED BY THE CONTRACTOR FOR THE APPROVAL OF CONSULTANT.
3. MEP SERVICES SHALL NOT CUT IN ANY STRUCTURAL BEAMS, RISBS OR ANY OTHER STRUCTURAL ELEMENTS UNLESS A PRIORITY WRITTEN APPROVAL HAS BEEN TAKEN FROM THE STRUCTURE ENGINEER.
4. MEP CONTRACTOR SHALL PROVIDE SLEEVE / OPENINGS / PIPES IN CIVIL WORK PRIOR TO CONSTRUCTION FOR RESPECTIVE SERVICES.
5. CONTRACTOR SHALL TAKE APPROVAL FROM CONSULTANT FOR ALL THE MATERIAL TO BE INSTALLED PRIOR TO PURCHASE HOWEVER, PAKISTAN CABLE, NEW AGE AND PIONEER CABLE ARE APPROVED.
5. ALL DISTRIBUTIONS BOARD DBs SHALL BE APPROVED BY CONSULTANT PRIOR TO PURCHASE BY CONTRACTOR. CONTRACTOR PROVIDE TECHNICAL SUBMITTAL FOR DBs.
6. MAIN AND SUB TELEPHONE/TV/FACP JUNCTION BOX SHALL BE PROVIDED WHERE REQUIRED.
7. ALL KINDS OF WIRING SHALL NOT BE VISIBLE INSIDE OR OUTSIDE THE BUILDING. CONTRACTOR SHALL PLACE SLEEVE / CONDUITS WHERE REQUIRED DURING CONSTRUCTIONS.
8. ALL MATERIALS SHALL BE NEW AND THE BEST OF THEIR RESPECTIVE KINDS, SUITABLE FOR THE CONDITIONS AND DUTIES IMPOSED UPON SAME AT BUILDING. MATERIALS SHALL MATCH EXISTING FOR SIMILAR SERVICE EXCEPT AS OTHERWISE NOTED HERE IN.
9. ALL PIPING SHALL BE SUBSTANTIALLY SUPPORTED FROM THE BUILDING STRUCTURE ALL HANGERS, RODS AND SUPPORTS SHALL BE SPECIFICALLY APPROVED FOR USE INTENDED.
10. THE DRAWINGS SHOWN ARE PERFORMANCE DRAWINGS ONLY AND NOT TO BE USED AS A SHOPDRAWING. THE CONTRACTOR SHALL SUBMIT DOUBLE LINED SHOPDRAWINGS BASED ON ACTUAL SITE CONDITION AND ACTUAL EQUIPMENT DIMENSIONS. FINAL APPROVAL SHALL BE SUBJECT TO SENIOR ENGINEER REQUIREMENTS APPROVAL AND LOCAL AUTHORITY REGULATIONS. THE SHOPDRAWING SHALL BE UPDATED IN ACCORDANCE TO THESE REQUIREMENTS TO BE INCLUDED IN THE CONTRACTOR'S SCOPE.
11. THE DRAWINGS ARE FOR GUIDANCE ONLY. THE CONTRACTOR SHALL CHECK AND CONFIRM THAT ALL SIZES AND CAPACITY MENTIONED IN THE DRAWINGS ARE CORRECT AND AS PER STANDARDS. THE CONTRACTOR SHALL SUBMIT RELEVANT CALCULATIONS FOR SENIOR ENGINEER APPROVAL. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE THAT THE SHOPDRAWINGS ARE IN COMPLIANCE WITH LOCAL REGULATIONS.
12. SENIOR ENGINEER
13. THE CONTRACTOR SHALL NOT BE ALLOWED TO INSTALL WITHOUT OBTAINING AN APPROVED SHOPDRAWING FROM SENIOR ENGINEER.
14. THE CONTRACTOR SHALL NOT BE ALLOWED TO INSTALL ANY EQUIPMENTS AND MATERIALS WITHOUT OBTAINING APPROVAL FROM SENIOR ENGINEER.
15. THE SHOPDRAWING SHOULD INDICATE THE EXACT LOCATION OF THE EQUIPMENT, DISTANCES FROM WALLS, BOTTOM LEVELS OF THE SERVICES, RISER LEVELS, AND THE JOINTS LOCATIONS. THE CONTRACTOR SHALL COORDINATE SECTIONS AND ENSURE THAT THE SHOP DRAWING HAS BEEN COMPILED WITH THE ARCHITECTURAL AND MEP DRAWINGS.
16. THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY FAULT THAT WILL OCCUR DURING CONSTRUCTION AND COMMISSIONING, IF ANY INSTALLATION VARIATION FROM THE APPROVED SHOPDRAWING AND APPROVED MATERIALS FROM SENIOR ENGINEER.
17. THE MATERIALS SHALL COMPLY TO MEP SPECIFICATIONS.
18. IF ANY UNEXPECTED DISCOVERY OF SUSPECTED HAZARDOUS MATERIALS IS MADE DURING THE COURSE OF WORK, THE CONTRACTOR SHALL REPORT THE DISCOVERY IMMEDIATELY REPORT TO THE OWNER. THE CONTRACTOR SHALL STOP WORK IMMEDIATELY AND SHALL NOT REMOVE OR DISPOSE OF THE MATERIAL. CONTRACTOR SHALL RESUME WORK AFTER ALL HAZARDOUS MATERIAL HAS BEEN REMEDIATED.

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MEP ENGINEER



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DESIGNED BY

MUHAMMAD NABEEL

SHEET No.

SCALE

JOB NUMBER _____

SHEET TITLE:

COVER SHEET

DRAWING NO.

G-100.00

DOB NUMBER:

DOB NUMBER:

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CONDENSATE DRAIN SIZE (IN INCHES)	MAXIMUM EQUIPMENT CAPACITY IN TONS OF REFRIGERATION (SLOPE .18" = 1'-0")	REMARK:
3/4"	20	1. WITH PIPE RUNNING AT 3/4 FULL AND OUTSIDE AIR AT 90°F DB AND 73°F WB. 2. CONDENSATE DRAIN PIPING: COPPER TUBING, TYP. M.
1"	40	
1-1/8"	90	
1-1/2"	125	
2"	250	

CONDENSATE DRAIN PIPING SHALL BE SLOPED AT 1/8" PER FOOT. CONDENSATE DRAIN PIPING
 SIZED NEW YORK BUILDING CODE

	CAT 100-10-108	GALV STEEL	BLACK STEEL	304 SS	316 SS	ASTM A286	IC-40	TYPE COPPER	TYPE COPPER (2)	PVC	COPIC 150RHT	COPIC 80	IC-40 PVC	DATE 07/02/2005
SERVICES														
COLD WATER	ABOVE GROUND													
	BELOW GROUND													
HOT/TEMPER WATER	ABOVE GROUND							*	*	*	*	*	*	
	BELOW GROUND							*	*	*	*	*	*	
WASTE	ABOVE GROUND												*	
	BELOW GROUND												*	
VENT	ABOVE GROUND												*	
	BELOW GROUND												*	
INDIRECT WASTE	INDOOR							*	*					
	OUTDOOR							*	*					
NATURAL GAS	INDOOR		*	*										
	OUTDOOR		*	*										
STORM DRAIN	ABOVE GROUND													
	BELOW GROUND	*												
STORM DRAIN EJECTOR PRESSURE PIPE	ABOVE GROUND													
SEWAGE SYSTEM	BELOW GROUND													

(1) PROVIDE PLASTIC WRAP UNDERGROUND WATER SUPPLY PIPING TO PREVENT CORROSION.
 (2) ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.
 (3) THE SYSTEM MUST BE INSTALLED BY PROFICIENT PLUMBERS COMPETENT IN INSTALLING ABS OR PVC.
 (4) PIPE, INSTALLATION, STORAGE, HANDLING AND PROTECTION OF THE ABS OR PVC PIPING SHALL BE PER THE MANUFACTURER'S INSTRUCTIONS.

SYMBOL	ABBREVIATION	DESCRIPTION
	CW	COLD WATER PIPING
	HW	HOT WATER PIPING (115-140°F)
	HWR	HOT WATER RETURN PIPING
	SS OR W	SOIL OR WASTE PIPING BELOW GRADE
	SS OR W	SOIL OR WASTE PIPING ABOVE GRADE
	DWV	COMBINATION WASTE & VENT
	V	VENT PIPING
	DD	DECK DRAIN
	ED	EMERGENCY DRAIN
	CD	CONDENSATE DRAIN PIPING
	ID	INDIRECT DRAIN
	G	NATURAL GAS
	RG	REVERSE OSMOSIS
	RD	ROOF DRAIN
	OFD	OVERFLOW ROOF DRAIN
	WHA	WATER HAMMER ARRESTOR
	P.O.C.	POINT-OF-CONNECTION
		CAPPED
		UNION
	UP	PIPE UP
	DN	PIPE DOWN
	DN	PIPE TEE DOWN
	BY	BALL VALVE
	SOV	SHUT-OFF VALVE
	GV	GATE VALVE
	GV	GLOBE VALVE
	CV	CHECK VALVE
	BFP	BACKFLOW PREVENTOR
	BFP	DOUBLE CHECK BACKFLOW PREVENTOR
	RED	REDUCER
	PUMP	PUMP
	FOGOGO	FLOOR CLEANOUT OR GRADE CLEANOUT
	WGO (CO)	WALL CLEANOUT (PLUS CLEANOUT)
	VTR	VENT THRU ROOF
	FS	FLOOR SINK
	HD	HUB DRAIN (CASE & COIL DRAINS)
	FD	FLOOR DRAIN
		FIRE SPRINKLER RISER
		PRESSURE GAUGE
		PRESSURE REDUCING VALVE
		THERMOSTAT
		T & P RELIEF VALVE W/ PIPE TO DRAIN
		SOLENOID VALVE
	MX	MIXING VALVE
		STRAINER
	M	METER
		OVERFLOW RAIN DRAIN DISCHARGED 6" ABOVE FLOOR
	BFF	BELOW FINISHED FLOOR
	BG	BELOW GROUND
	(E)	EXISTING
	(N)	NEW
	IE	INVERT ELEVATION
	FU	FIXTURE UNIT
	HD	HUB DRAIN
	FS	FLOOR SINK
	FD	FLOOR DRAIN
	MBH	THOUSAND STUHS/HOUR
	BTU	BRITISH THERMAL UNIT

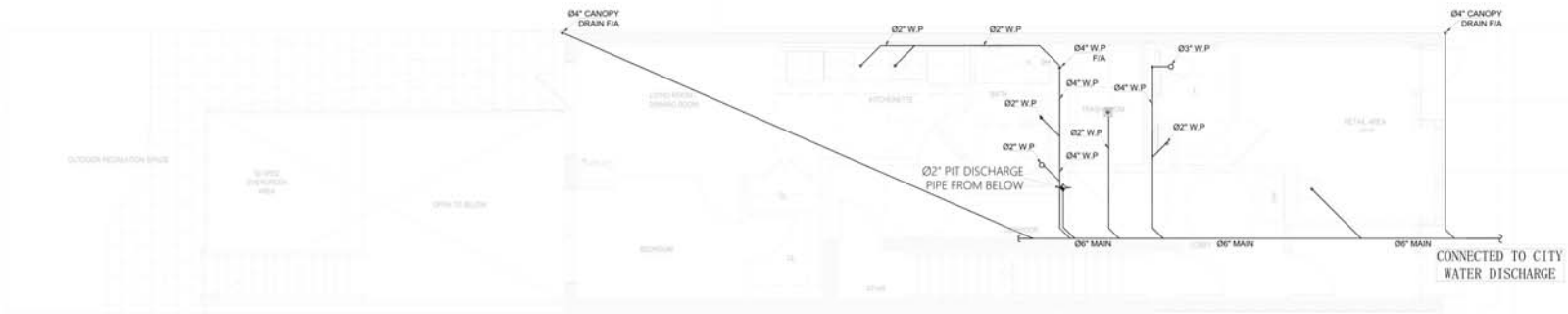
NOTE: THIS IS A STANDARD SYMBOL LIST AND NOT ALL ITEMS LISTED MAY BE USED

PLAN CHECK NOTES

- ALL FIXTURES, EQUIPMENT, PIPING AND MATERIALS SHALL BE LISTED.
- ALL PLUMBING FIXTURES SHALL MEET THE FLOW REQUIREMENTS SPECIFIED IN THE 2022 INTERNATIONAL PLUMBING CODE.
- PRESSURE RELIEF VALVES FOR WATER HEATER INSTALLED INSIDE A BUILDING SHALL DISCHARGE TO A FLOOR DRAIN, FLOOR SINK OR SIMILAR FIXTURE.
- ALL PIPING AND FITTINGS WITH A LEAD CONTENT WHICH EXCEEDS 0.2% SHALL BE PROHIBITED IN SYSTEMS CONVEYING POTABLE WATER.
- ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.
- EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN SIX (6) INCHES ABOVE THE FLOOD-LEVEL. RIM OF THE FIXTURE SERVED BEFORE OFFSETTING HORIZONTALLY OR BEFORE BEING CONNECTED TO ANY OTHER VENT.
- BACKWATER VALVE SHALL BE INSTALLED ON DOWNSTREAM OF PLUMBING FIXTURES THAT ARE LOCATED ON A FLOOR LEVEL THAT IS LOWER THAN THE NEXT UPSTREAM MANHOLE COVER OF THE PUBLIC OR PRIVATE SEWER SYSTEM PER SECTION 901.1 FBC AND SUBJECT TO DEFLECT INSPECTION APPROVAL.
- DRAINAGE PIPING SHALL BE INSTALLED WITH A MINIMUM SLOPE OF ONE INCH PER FOOT OR LARGER ONLY WHERE IT IS IMPRACTICAL, DUE TO THE DEPTH OF THE STRUCTURE, TO THE STRUCTURAL FEATURES, OR TO THE ARRANGEMENT OF A BUILDING OR STRUCTURE, TO OBTAIN A SLOPE OF 1/4 INCH PER FOOT OR 0.25 PERCENT AND THAT THE SLOPE SHALL BE MAINTAINED THROUGHOUT THE ENTIRE LENGTH OF THE PIPING.
- SHOWERS AND TUB SHOWER COMBINATIONS SHALL BE PROVIDED WITH MIXING VALVES PER SECTION NEW YORK PLUMBING CODE.
- PROVIDE EXPANSION TANK OR OTHER APPROVED METHOD OF RELIEVING PRESSURE PER SECTION NEW YORK PLUMBING CODE.
- A WATER HEATER PRESSURE AND TEMPERATURE RELIEF DRAIN THAT TERMINATES OUTSIDE THE BUILDING SHALL COMPLY WITH NEW YORK PLUMBING CODE.

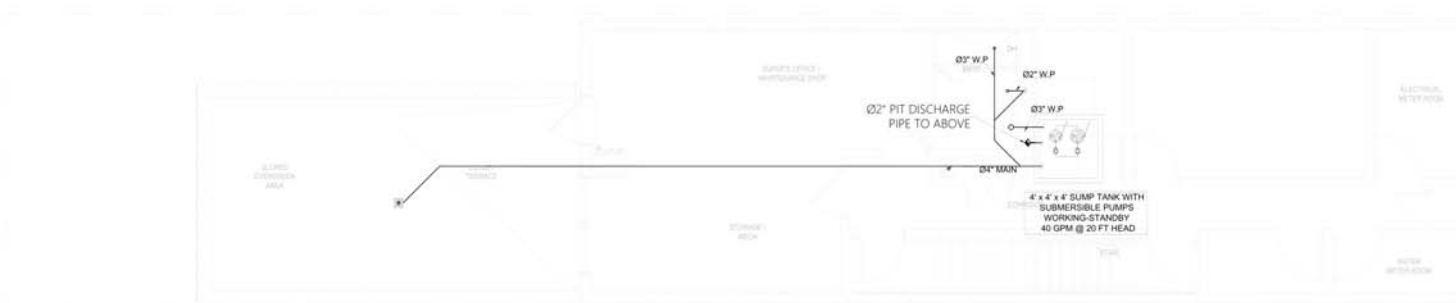
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DOB NUMBER:



1st FLOOR PLAN

1 SEWER PLAN
P1.0 SCALE: 1/4" = 1'-0"



CELLAR PLAN

1 SEWER PLAN
P1.0 SCALE: 1/4" = 1'-0"

ADDRESS:

156 N. 9TH STREET
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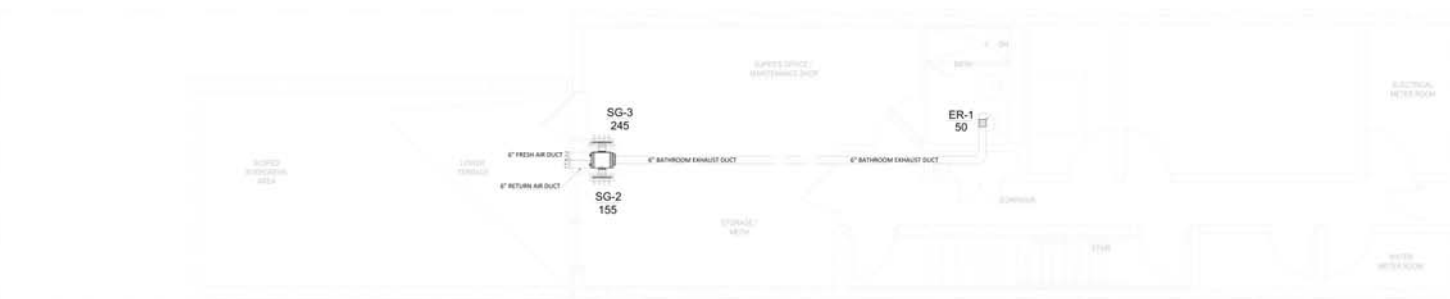
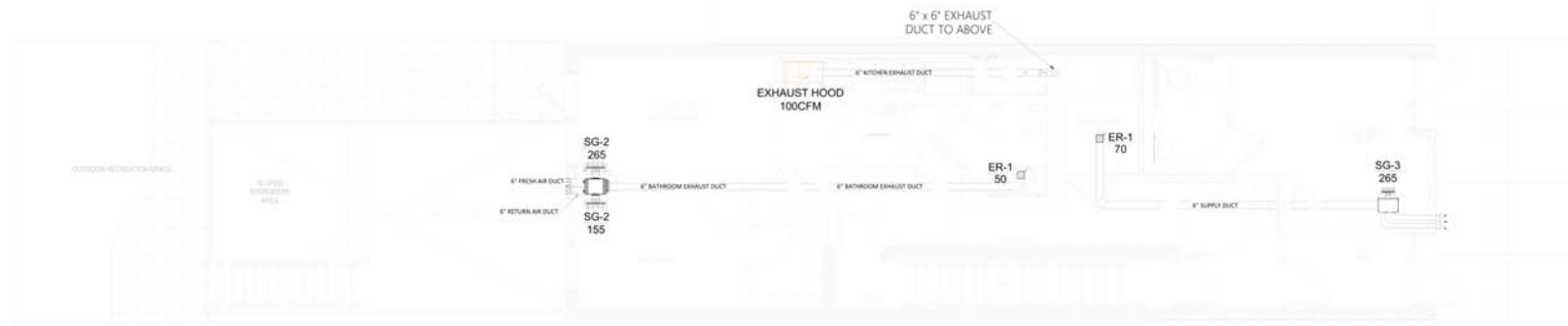
SHEET TITLE:

SEWER GROUND AND
FIRST FLOOR

DRAWING NO.:

P-200.00

DOB NUMBER:



ADDRESS:

156 N. 9TH STREET
BROOKLYN, NY 11249

ARCHITECT:

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MEP ENGINEER:



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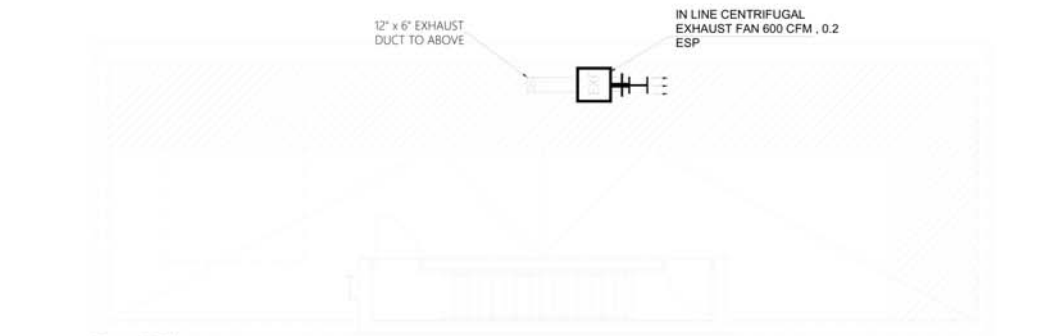
SHEET TITLE:

MECHANICAL GROUND AND
FIRST FLOOR

DRAWING NO.:

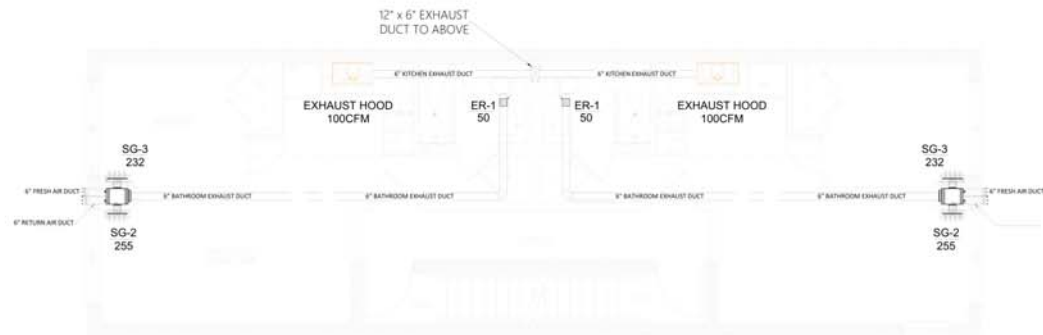
M-200.00

DOB NUMBER:



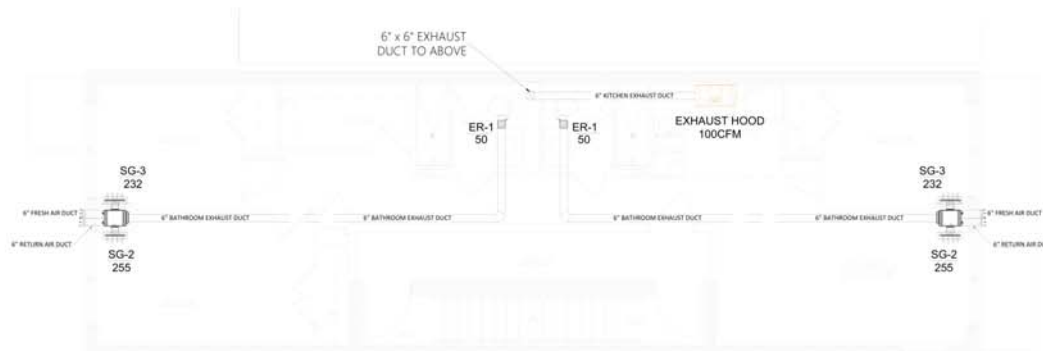
Roof Plans

1 MECHANICAL PLAN
M1.4 SCALE: 1/4" = 1'-0"



3rd & 4th FLOOR PLAN

1 MECHANICAL PLAN
M1.4 SCALE: 1/4" = 1'-0"



2nd FLOOR PLAN

1 MECHANICAL PLAN
M1.3 SCALE: 1/4" = 1'-0"

ADDRESS:

156 N. 9TH STREET
BROOKLYN, NY 11249

ARCHITECT:

DAMORE STUDIO
44 E. BROADWAY - SUITE 100
WHITE PLAINS, NY 10601
914.562.4884

MEP ENGINEER:



GDI Engineering Design
(Green Dream International LLC)
3707 Cypress Creek Parkway
Suite 310
Houston, TX 77068

No. DATE SUBMISSIONS / REVISIONS
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DESIGNED BY: MUHAMMAD NABEEL

SHEET No.: 8 of 8

SCALE: 1/4" = 1'-0"

JOB NUMBER: 03/24

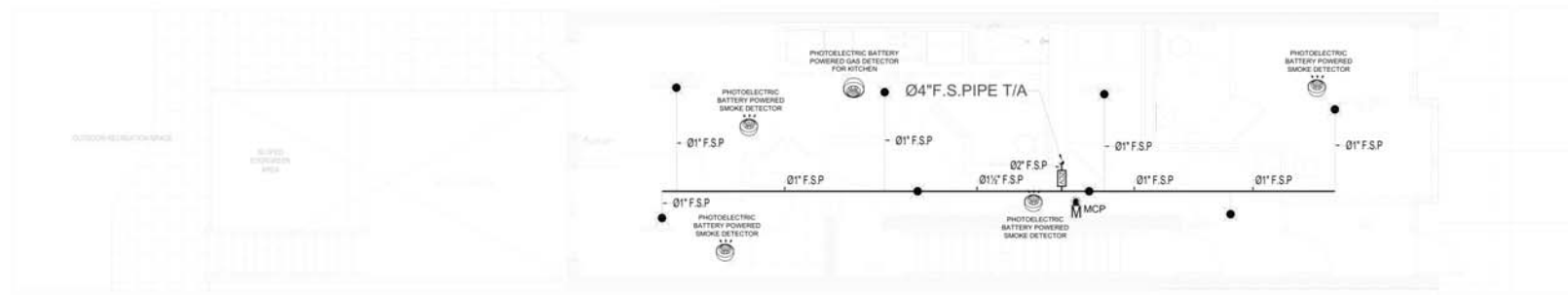
SHEET TITLE:

MECHANICAL 2nd ,
3rd & 4th FLOOR

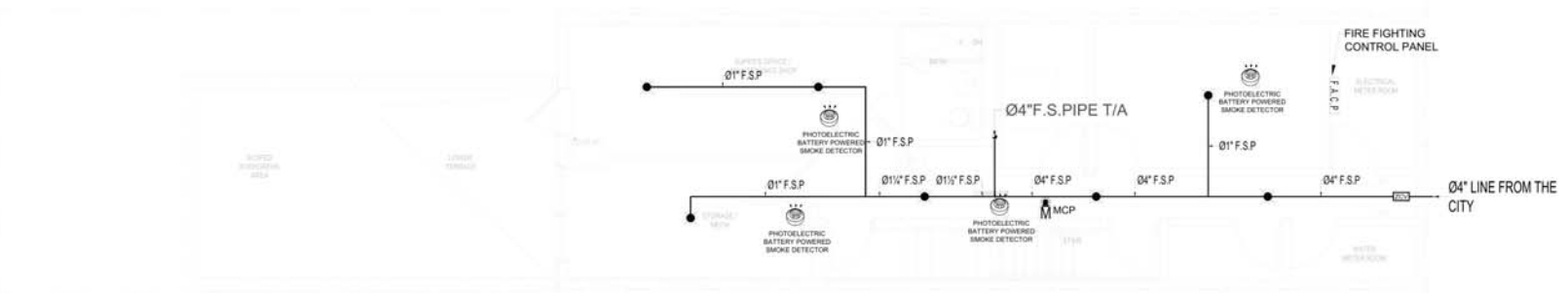
DRAWING NO:

M-201.00

DOB NUMBER:



1st FLOOR PLAN
1 FIRE PROTECTION PLAN
 F1.0 SCALE: 1/4" = 1'-0"



CELLAR PLAN
1 FIRE PROTECTION PLAN
 F1.0 SCALE: 1/4" = 1'-0"

ADDRESS:

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DESIGNED BY:
 MUHAMMAD NABEEL

SHEET No.: 3 of 3

SCALE: 1/4" = 1'-0"

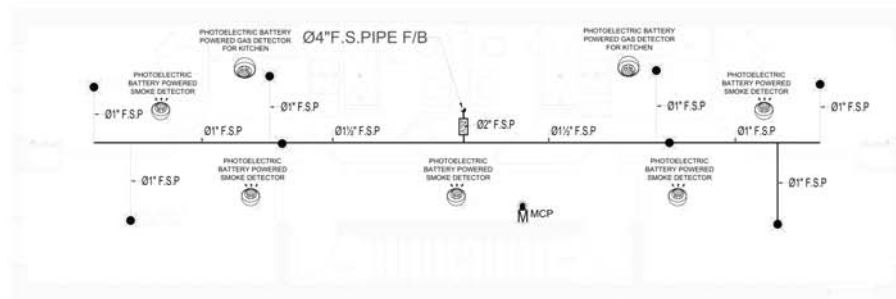
JOB NUMBER: 03/24

SHEET TITLE:

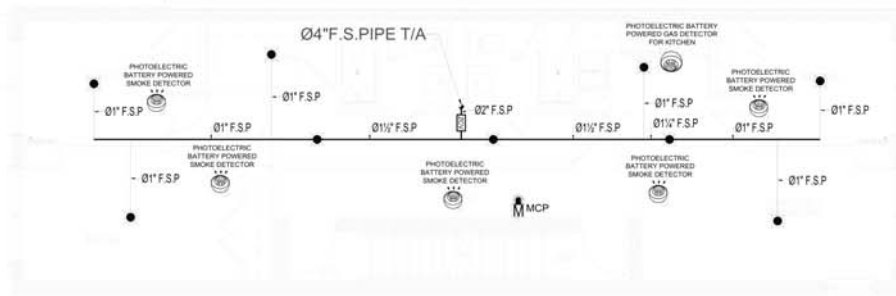
FIRE PROTECTION GROUND & FIRST FLOOR

DRAWING NO:
F-200.00

DOB NUMBER:



3rd & 4th FLOOR PLAN
1 FIRE PROTECTION PLAN
F1.0 SCALE: 1/4" = 1'-0"



2nd FLOOR PLAN
1 FIRE PROTECTION PLAN
F1.0 SCALE: 1/4" = 1'-0"

ADDRESS:

156 N. 9TH STREET
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MEP ENGINEER:



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DESIGNED BY: MUHAMMAD NABEEL

SHEET No.: 1 of 1

SCALE: 1/4" = 1'-0"

JOB NUMBER: 03/24

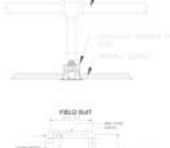
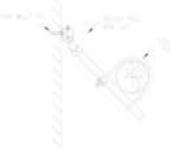
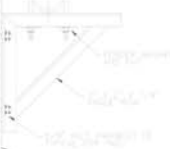
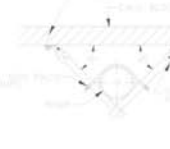
SHEET TITLE:

**FIRE PROTECTION 2nd ,
3rd & 4th FLOOR**

DRAWING NO:

F-201.00

DOB NUMBER:

			
SEISMIC BRACING LATERAL SHEET NO. 03/24	SEISMIC BRACING LONGITUDINAL SHEET NO. 03/24	TYPICAL SSU DETAIL SHEET NO. 03/24	RESIDENTIAL SSP DETAIL SHEET NO. 03/24
			
SEISMIC BRACING LOWER PIPE SHEET NO. 03/24	SEISMIC BRACING UPPER PIPE SHEET NO. 03/24	KWIT BOLT HANGER DETAIL SHEET NO. 03/24	AIR VENTING DETAIL SHEET NO. 03/24
			
WALL MOUNTED ANGLE BRACE SHEET NO. 03/24	4-WAY BRACING DETAIL SHEET NO. 03/24	BRANCHLINE RESTRAINT SHEET NO. 03/24	HANGER AND SUPPORTS SHEET NO. 03/24

		
FIRE DEPARTMENT CONNECTION SHEET NO. 03/24	DOUBLE CHECK DETECTOR ASSEMBLY SHEET NO. 03/24	RISER DETAIL SHEET NO. 03/24

ADDRESS:

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BROOKLYN, NY 11249

ARCHITECT:

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WHITE PLAINS, NY 10603
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DESIGNED BY: MUHAMMAD NABEEL

SHEET No.: 4 of 4

SCALE: NTS

JOB NUMBER: 03/24

SHEET TITLE:

FIRE PROTECTION DETAILS

DRAWING NO:

F-300.00

DOB NUMBER:

DB-PANEL "CELLAR FLOOR"

General Connected Load : 7050 VA
A/C Load : 0000 VA
Total Demand Current : 40 Amp.

FEEDER:

- PART OF THE 3V4S/4S AS PER NEC 220-3(A)
- THRU LOW VOLTAGE TRANSFORMER
- PROVIDE GFI PROTECTION
- NON-CONCURRENT LOADS
- THROUGH TIMER/PHOTOCELL
- LOOKED OUT DEVICE
- SIZE OCPD AS SHOWN, VERIFY THE OCPD FOR THE INSTALLED EQUIPMENT TO MATCH WITH THE PLANS. IF ANY CONFLICT NOTIFY THE ENGINEER.

DB-PANEL "APARTMENT SECOND FLOOR"

General Connected Load : 8050 VA
A/C Load : 2000 VA
Total Demand Current : 50 Amp.

FEEDER:

- PART OF THE 3V4S/4S AS PER NEC 220-3(A)
- THRU LOW VOLTAGE TRANSFORMER
- PROVIDE GFI PROTECTION
- NON-CONCURRENT LOADS
- THROUGH TIMER/PHOTOCELL
- LOOKED OUT DEVICE
- SIZE OCPD AS SHOWN, VERIFY THE OCPD FOR THE INSTALLED EQUIPMENT TO MATCH WITH THE PLANS. IF ANY CONFLICT NOTIFY THE ENGINEER.

DB-PANEL "APARTMENT FIRST FLOOR"

General Connected Load : 7050 VA
A/C Load : 2000 VA
Total Demand Current : 50 Amp.

FEEDER:

- PART OF THE 3V4S/4S AS PER NEC 220-3(A)
- THRU LOW VOLTAGE TRANSFORMER
- PROVIDE GFI PROTECTION
- NON-CONCURRENT LOADS
- THROUGH TIMER/PHOTOCELL
- LOOKED OUT DEVICE
- SIZE OCPD AS SHOWN, VERIFY THE OCPD FOR THE INSTALLED EQUIPMENT TO MATCH WITH THE PLANS. IF ANY CONFLICT NOTIFY THE ENGINEER.

DB-PANEL "RETAIL FIRST FLOOR"

General Connected Load : 3650 VA
A/C Load : 1500 VA
Total Demand Current : 32 Amp.

FEEDER:

- PART OF THE 3V4S/4S AS PER NEC 220-3(A)
- THRU LOW VOLTAGE TRANSFORMER
- PROVIDE GFI PROTECTION
- NON-CONCURRENT LOADS
- THROUGH TIMER/PHOTOCELL
- LOOKED OUT DEVICE
- SIZE OCPD AS SHOWN, VERIFY THE OCPD FOR THE INSTALLED EQUIPMENT TO MATCH WITH THE PLANS. IF ANY CONFLICT NOTIFY THE ENGINEER.

DB-PANEL "APARTMENT-01 3rd & 4th FLOOR"

General Connected Load : 4300 VA
A/C Load : 2000 VA
Total Demand Current : 50 Amp.

FEEDER:

- PART OF THE 3V4S/4S AS PER NEC 220-3(A)
- THRU LOW VOLTAGE TRANSFORMER
- PROVIDE GFI PROTECTION
- NON-CONCURRENT LOADS
- THROUGH TIMER/PHOTOCELL
- LOOKED OUT DEVICE
- SIZE OCPD AS SHOWN, VERIFY THE OCPD FOR THE INSTALLED EQUIPMENT TO MATCH WITH THE PLANS. IF ANY CONFLICT NOTIFY THE ENGINEER.

DB-PANEL "APARTMENT-01 3rd & 4th FLOOR"

General Connected Load : 4300 VA
A/C Load : 2000 VA
Total Demand Current : 50 Amp.

FEEDER:

- PART OF THE 3V4S/4S AS PER NEC 220-3(A)
- THRU LOW VOLTAGE TRANSFORMER
- PROVIDE GFI PROTECTION
- NON-CONCURRENT LOADS
- THROUGH TIMER/PHOTOCELL
- LOOKED OUT DEVICE
- SIZE OCPD AS SHOWN, VERIFY THE OCPD FOR THE INSTALLED EQUIPMENT TO MATCH WITH THE PLANS. IF ANY CONFLICT NOTIFY THE ENGINEER.

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MEP ENGINEER:



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DESIGNED BY:

MUHAMMAD NABEEL

SHEET No.:

7 of 8

SCALE:

NTS

JOB NUMBER:

03/24

SHEET TITLE:

PANEL CALCULATIONS

DRAWING NO:

E-400.00

DOB NUMBER: