Rahma Alawdan
“New beginnings are often disguised as painful endings”
- Lao Tzu

Skye Colón
“Carpe Diem” - Horace

Daniel Cancel
“Simplicity is the ultimate sophistication”
- Leonardo da Vinci

Diego Atauchi
“There are 360 degrees so why stick to one”
- Zaha Hadid
Building Analysis - Lower Level Structural Grid

Lower Level Original Plan
Proposed floor to floor: 24 Feet

Proposed Structural Grid
Exposed Circular Vertical and Horizontal Ducts

Credit: Jonathan Rubio
Building Analysis - Level 1 Structural Grid

Level 1 Original Plan

Level 1 Structural Grid Basement Set Up

Proposed floor to floor: 24 Feet

Credit: Jonathan Rubio
Mechanical Room will be located on Level 3.

The main entrance, locker room entrance and main staircase will all be reconfigured to improve circulation.

The two glass walls on the lower level will be removed to increase space and circulation.

There will be two elevators, located next to either staircase.

Addition of restrooms on Level 2.

Key -
- Red: Removing
- Green: Extending
- Blue: Adding
- Orange: Circulation
Site Analysis

A majority of the noise comes from Jay Street and the Manhattan Bridge.

Concord and Chapel Street are one way streets so there is less vehicular traffic.

There is moderate bicycle traffic, with the bike lane on Jay Street.

The majority of the pedestrian traffic comes from Jay Street, so this will affect the location of our entrance.

There is a bus stop directly in front of the site.

The building directly behind is 12 stories and commercial, the building across is residential and is 33 stories.

The facade will be partially concrete to block the noise.

S.C, D.A
Precedent Case Studies

There are **exposed air duct vents.**

Required **I.D check-in** at the entrance. There is also a **juice bar** located near the entrance of the gym.

The equipment is **evenly spaced** out to allow for **easy circulation.**

The floor is **rubber** and another material.

There is **easy access** to bathrooms from **both sides** of the gym.

D.A

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Equipment is organized in a **radial form.**

There is a **separate room** for **cardio machines.**

There are **very few windows,** **artificial lighting.**

Air ducts are **not exposed.**

**Low ceilings** in some areas.

D.C

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Credit: Retro Fitness (Queens)

Credit: Planet Fitness New York, New York
There are exposed circular air ducts that are going off to the left indicating the mechanical room is above and to the right.

The air ducts decrease in radius, increasing the efficiency of air flow as well as indicating where the mechanical room is.

There are large airy windows, ceiling fans and the floor appears to be rubber. The equipment is vertically lined up creating a corridor.

When entering the building there is a front desk/check in and behind it are “U-Shaped” stairs that continue up throughout the building.

S.C

The ducts are not exposed, but it is easily determined (see image 2).

The floor is rubber. The equipment is lined up in a uniform grid-like manner.

The gym has extremely bright lights all throughout. There is a huge information/welcome desk at the entrance.

R.A
Program Inventory

Existing:

- Lower Level Pool: 35’ x 75’
- Level 1 Cafe
- Men’s/Women’s Locker Room 30’ x 16’
- 3 Staff Offices
- Triple Height Atrium 20’ x 20’
- 2 Stairs
- Level 1 Outdoor Terrace
- Storage Room
- 1 Recreational Room
- Lobby/Information Area
- Restrooms

Additions:

- Front Desk/Check-In
- More restrooms
- Elevators
- Another Recreational Room
- Mechanical Room
Individual Facade Selections

Glass Curtain Walls -

Storefront:
Coordinated systems of extruded metal frames and glass panels. The size and spacing of the mullions is determined by the glass strength and thickness and wind loads.

Unitized Systems:
Consists of preassembled, framed wall units which may be pre-glazed or glazed after installation. Shipping bulk is greater than with the stick system, but less field labor and erection time is required.

Vision Glass:
Is typically used in aluminium storefronts and curtain walls, aluminium doors and frames, aluminum cover frames, hollow metal, storefront, skylights, sun screens, mirrors and shower doors

Stick Systems:
The stick system consists of tubular metal mullions and rails assembled piece by piece on site to frame vision glass and spandrel units. It offers relatively low shipping and handling costs and can be adjusted more readily than other systems to on-site conditions.

Solid Material -

Solid Panel: R.A

Exposed Fine Aggregate: S.C

Rainscreen Systems: D.A

Ribbed Texture Formliner: D.C