

MANHATTAN

THE BRONX

QUEENS

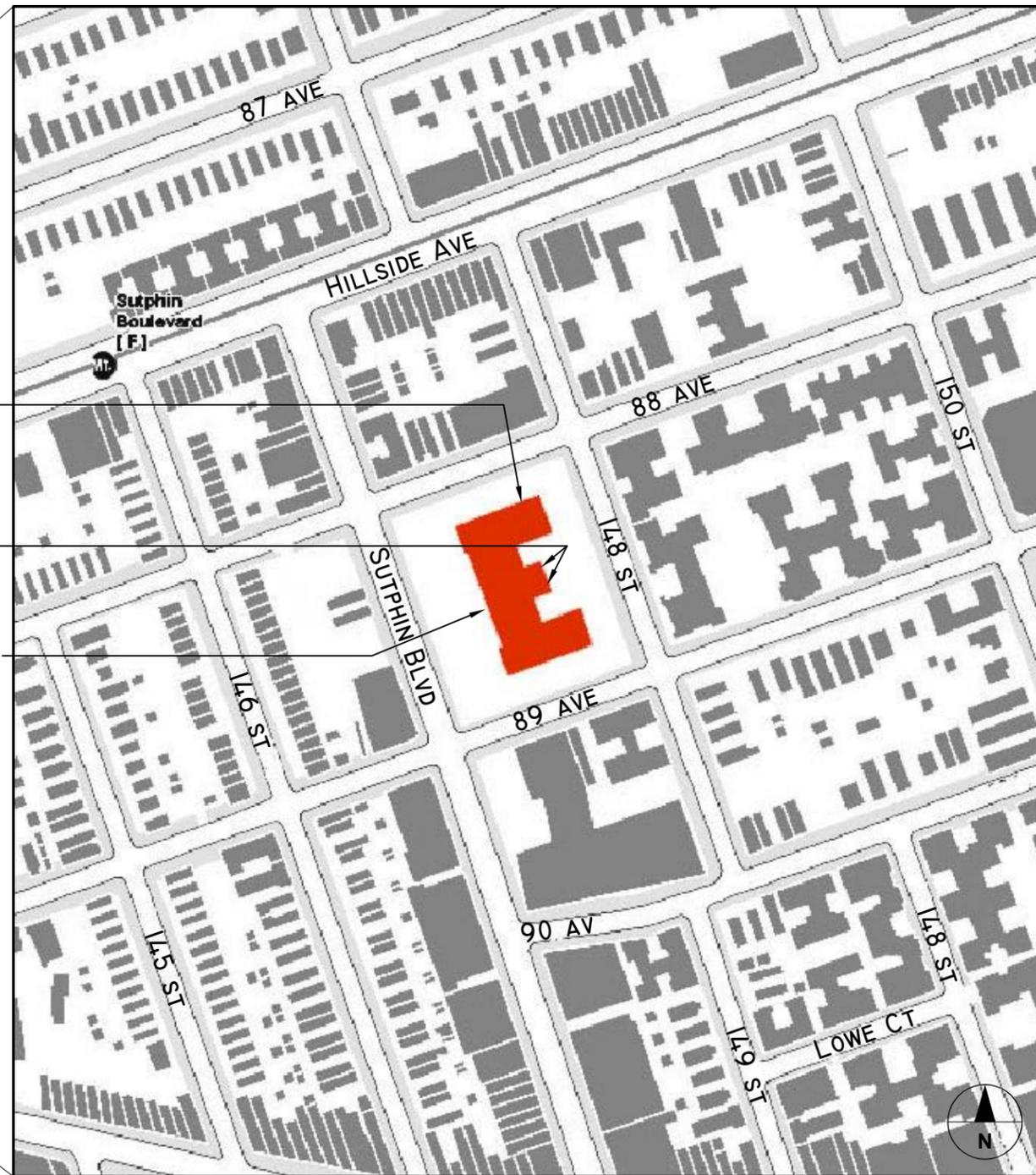
BROOKLYN

STATEN ISLAND

NORTH FACADE:
LOUVER L3
@ DUMBWAITER SHAFT

EAST FACADE:
LOUVERS L1 & L2
@ PASSENGER
ELEVATOR SHAFT

WEST FACADE:
FRONT ENTRANCE,
NO PROPOSED LOUVERS



SOUTH: NO CHANGE



WEST (FRONT ENTRANCE): NO CHANGE



NORTH: PROPOSED LOUVER L3

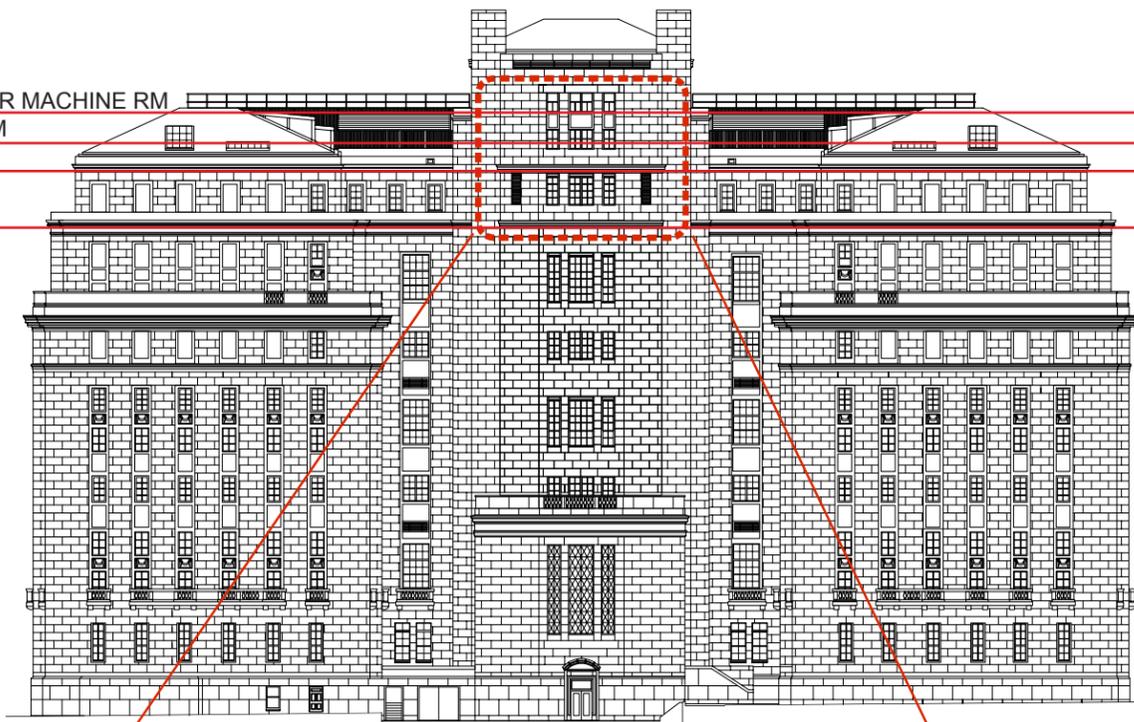


EAST: PROPOSED LOUVERS L1 & L2



ROOM ABOVE MAIN ELEVATOR MACHINE RM
MAIN ELEVATOR MACHINE RM
ATTIC LEVEL

7TH FLOOR



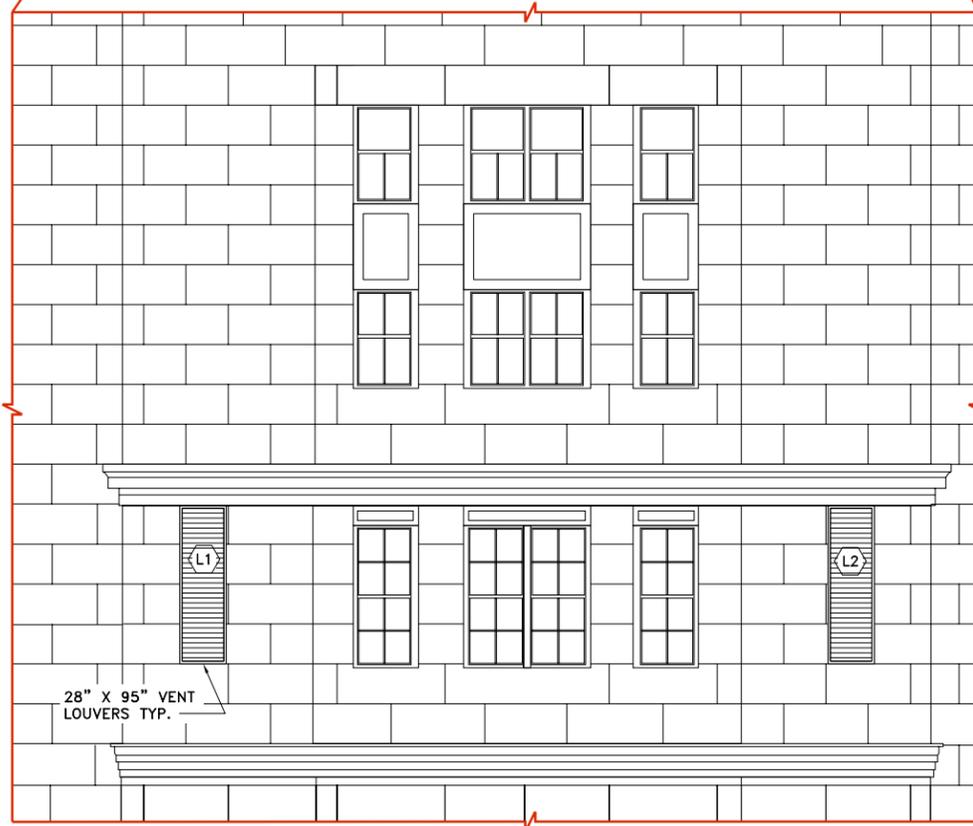
EAST ELEVATION

RM ABOVE
MAIN EMR

MAIN EMR

ATTIC LEVEL

7TH FL



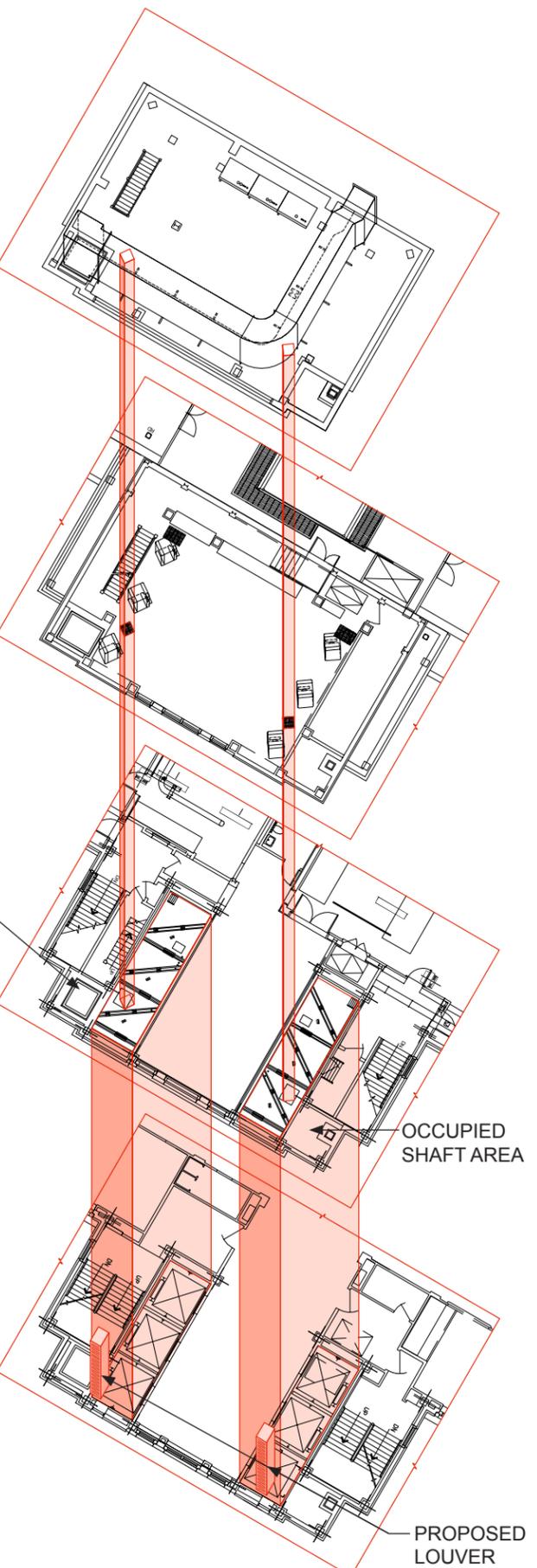
DETAIL @ ELEVATOR SHAFT: LOUVERS L1 & L2

ROOM ABOVE MAIN
ELEVATOR MACHINE ROOM

MAIN ELEVATOR
MACHINE ROOM

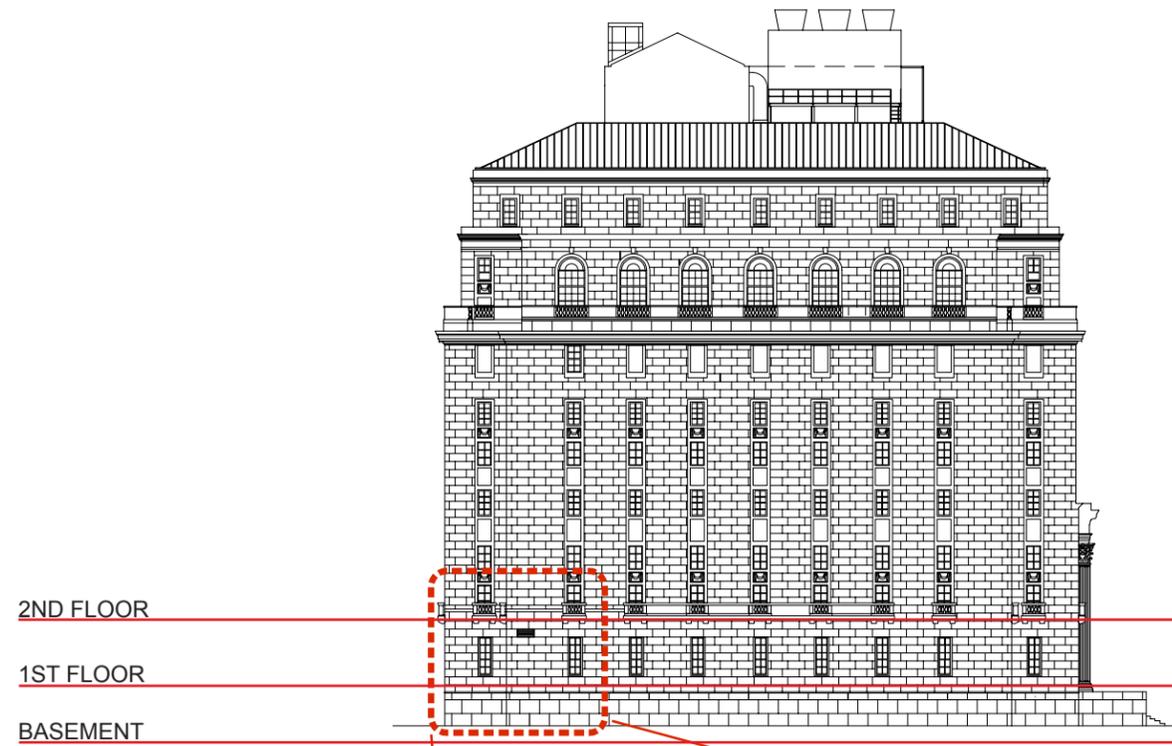
OCCUPIED
SHAFT AREA
ATTIC LEVEL & ELEVATOR
GOVERNOR ROOMS

7TH FLOOR
MAIN ELEVATOR LOBBY



OCCUPIED
SHAFT AREA

PROPOSED
LOUVER



2ND FLOOR

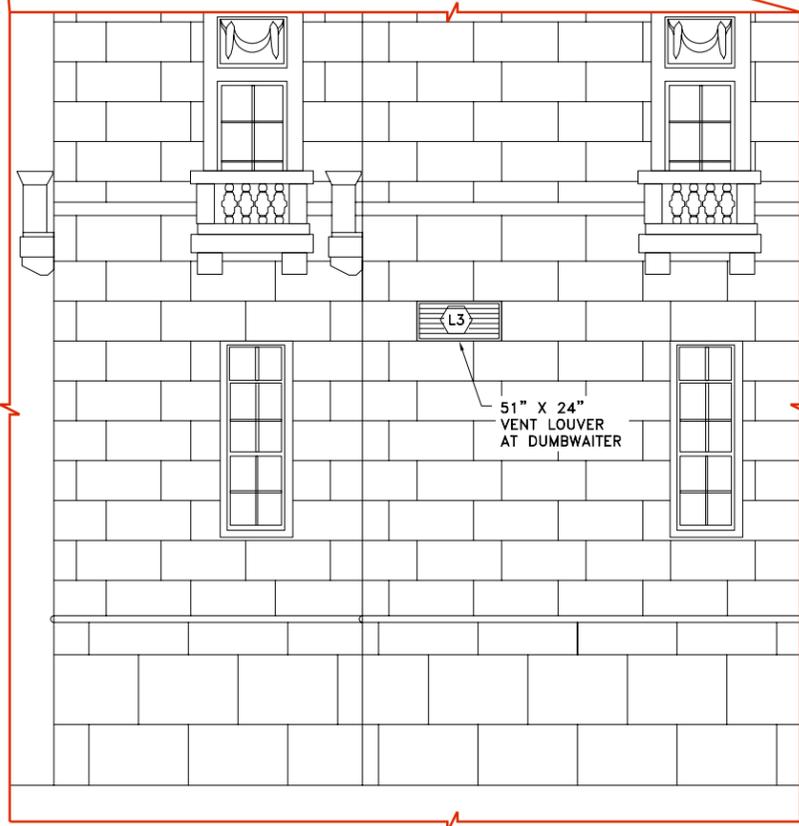
1ST FLOOR

BASEMENT

NORTH ELEVATION

2ND FLOOR

1ST FLOOR



51" X 24"
VENT LOUVER
AT DUMBWAITER

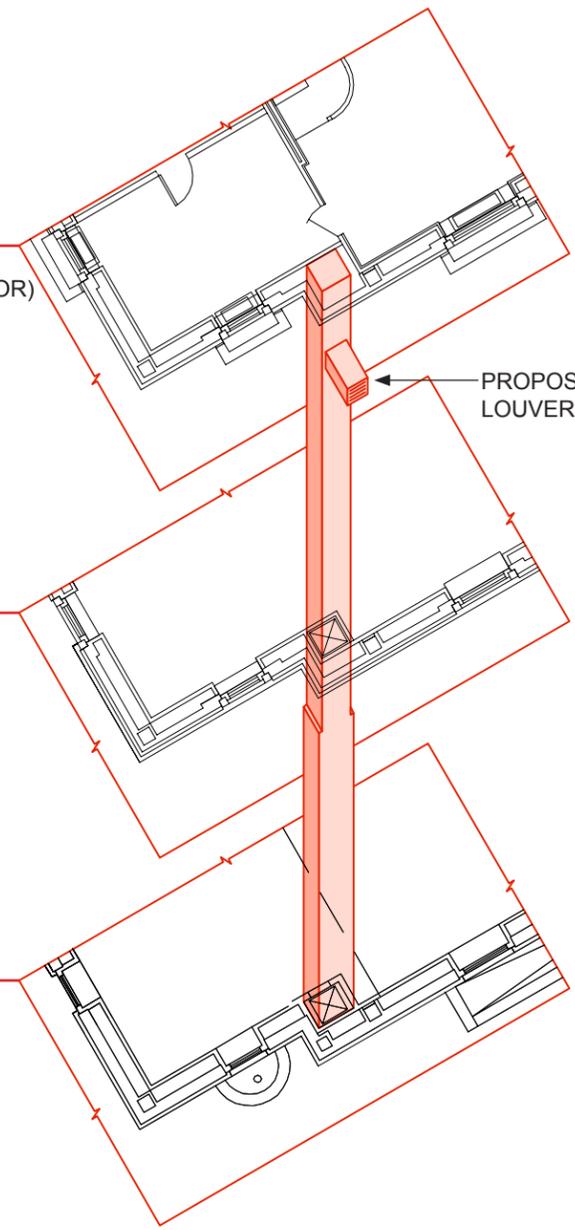
DETAIL @ DUMBWAITER: LOUVER L3

2ND FLOOR
(NO DUMBWAITER
ACCESS THIS FLOOR)

1ST FLOOR

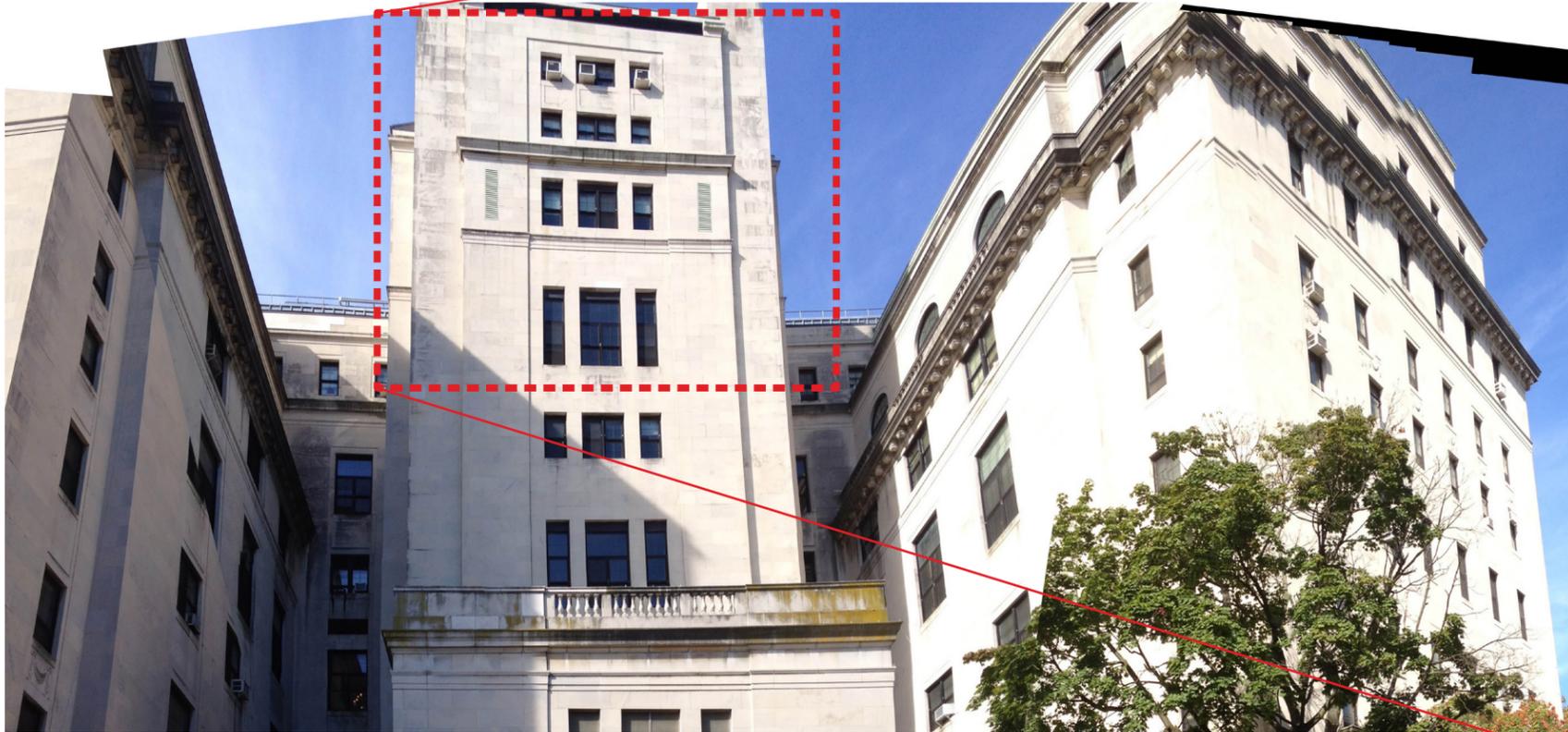
BASEMENT

PROPOSED
LOUVER





EAST ELEVATION
BEFORE



EAST ELEVATION: L1 & L2
AFTER



DETAIL @ ELEVATOR SHAFT
LOUVERS L1 & L2



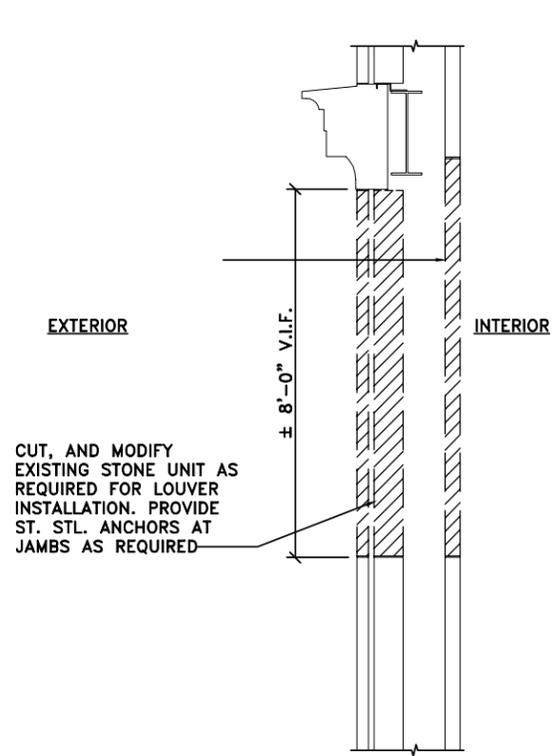
**DETAIL @ DUMBWAITER
LOUVER L3**



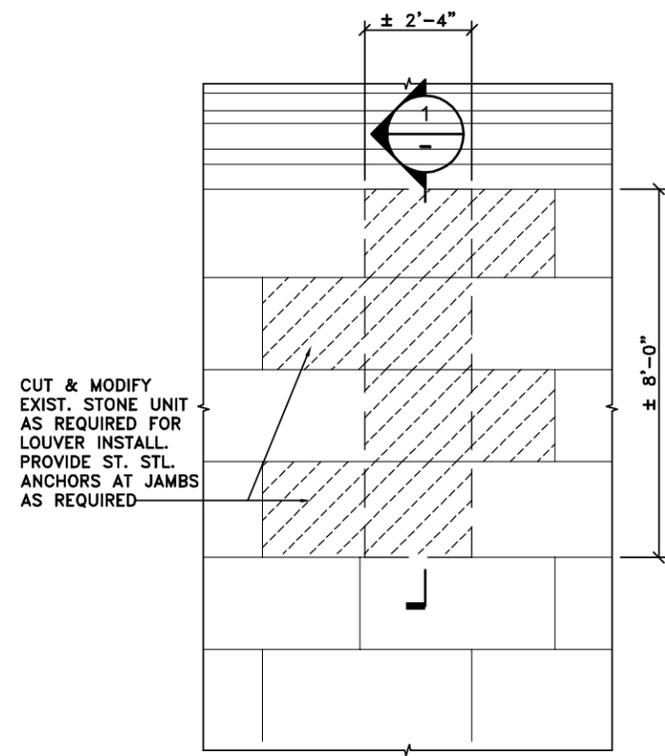
**NORTH ELEVATION
BEFORE**



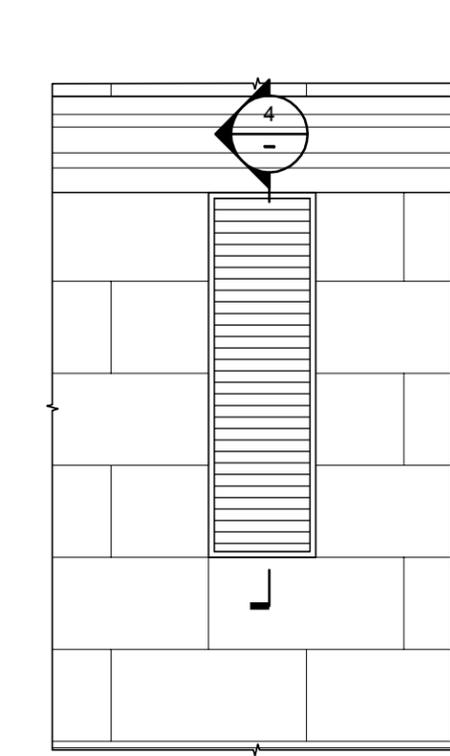
**NORTH ELEVATION: LOUVER 3
AFTER**



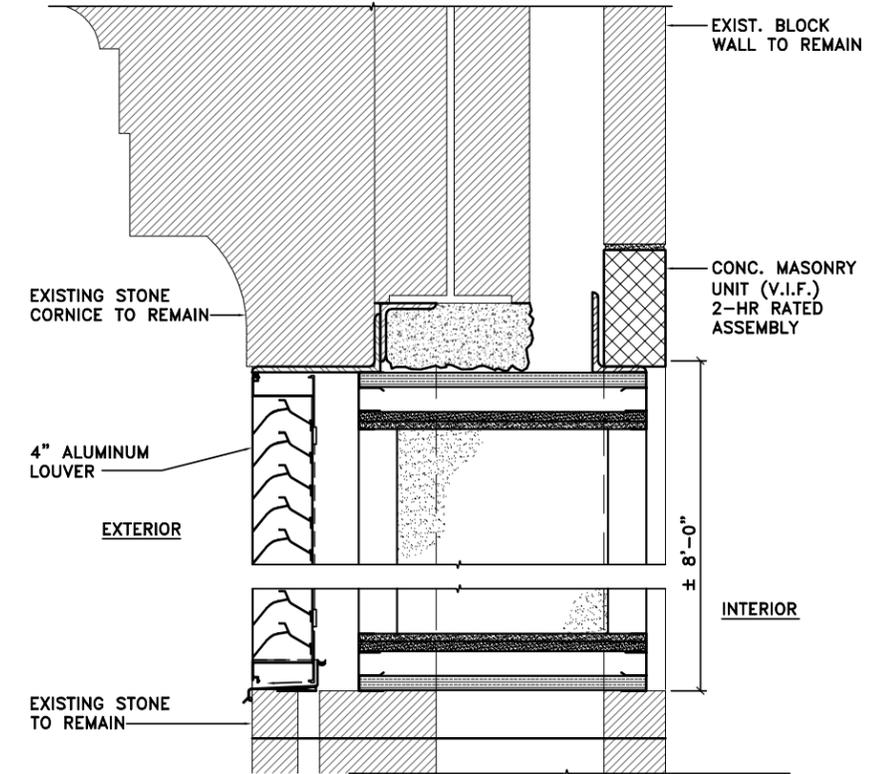
1 EXTERIOR WALL REMOVAL DETAIL



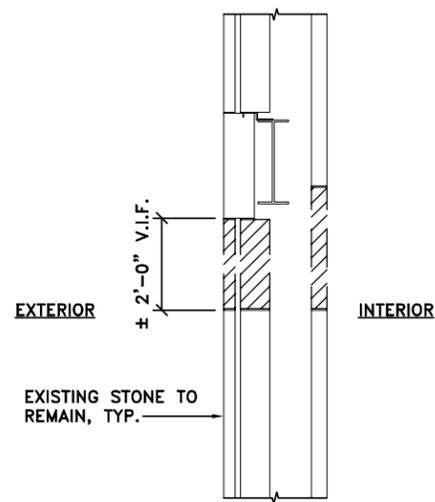
2 EXTERIOR WALL REMOVAL DETAIL



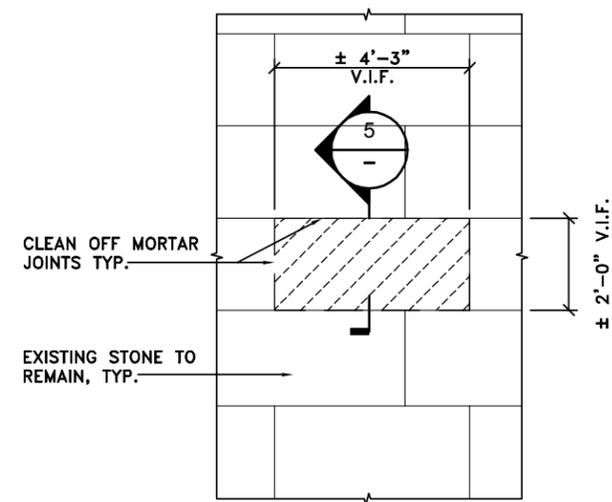
3 NEW LOUVER DETAIL



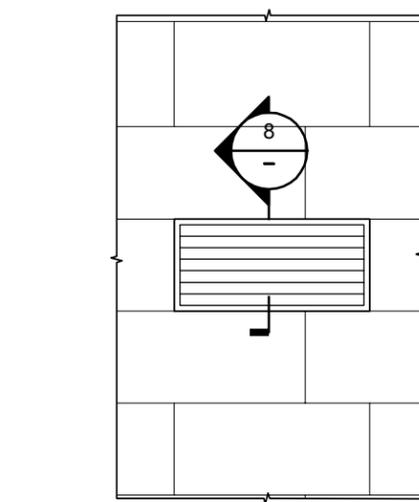
4 LOUVER SECTION (HEAD AND SILL)



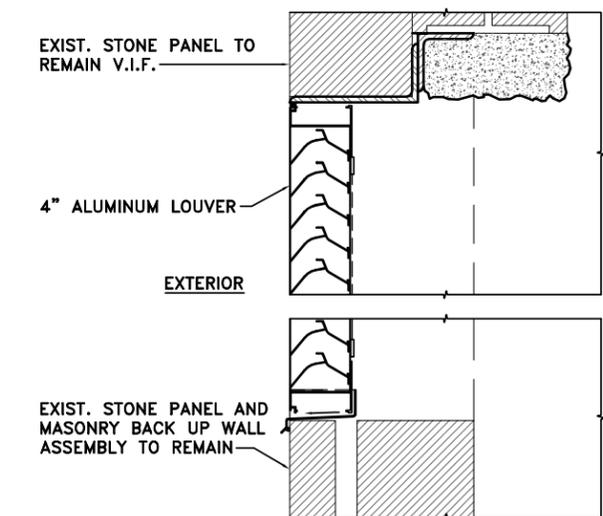
5 EXTERIOR WALL REMOVAL DETAIL



6 EXTERIOR WALL REMOVAL DETAIL



7 NEW LOUVER DETAIL



8 DUMBWAITER SHAFT LOUVER SECTION

DESIGN DATA:

To maintain a CLASS A (99%) effectiveness rating with a 29 mph wind speed and a rainfall rate of 3in/hr

- Maximum intake core velocity 0.5 m/s (98.43 FPM)
- Maximum intake free area velocity 0.96 m/s (189.23 FPM)
- Intake pressure drop 2.8 Pa (0.01 in. H₂O)
- Intake capacity 0.5 m³/s (1059 CFM)



To maintain a CLASS B (95%) effectiveness rating with a 29 mph wind speed and a rainfall rate of 3in/hr

- Maximum intake core velocity 1.6 m/s (315 FPM)
- Maximum intake free area velocity 3.1 m/s (610.27 FPM)
- Intake pressure drop 29.9 Pa (0.12 in. H₂O)
- Intake capacity 1.6 m³/s (3433 CFM)

*louver tested with 1m² core area, mill finish and no screen

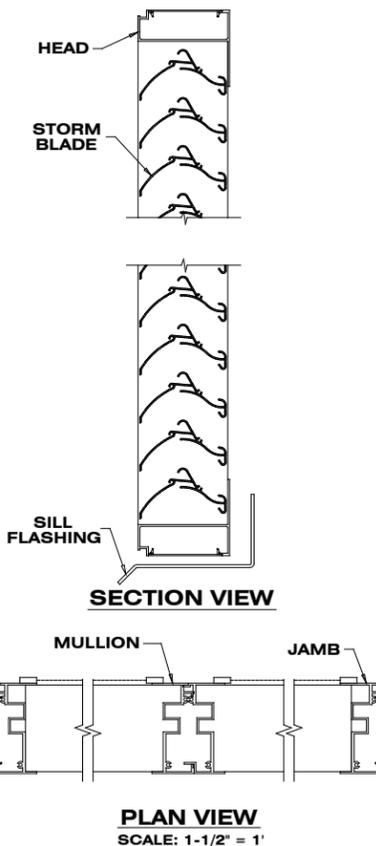
SUGGESTED SPECIFICATIONS:

GENERAL: Furnish and install where indicated on the drawings C/S 4" (101.6 mm) STORM RESISTANT FIXED HORIZONTAL LOUVER **MODEL RS-4300** as manufactured by Construction Specialties, Inc., Cranford, NJ; Mississauga, Ontario. Complete details shall be submitted to the architect for approval prior to fabrication. The supplier must be a member of AMCA or BSRIA.

MATERIAL: Frames and blades to be fabricated from 6063-T6 aluminum alloy. Blades to be minimum 0.060" (1.52 mm) thick extrusions and frames to be a minimum 0.080" (2.03 mm) thick. Louver to be mechanically fastened using stainless steel or aluminum fasteners. Louvers to be supplied with 4" (101.6 mm) high by full depth sill flashing formed from minimum 0.050" (1.27 mm) thick aluminum. Sill flashing to have welded side panels. Louvers and sill flashing to be installed in accordance with the manufacturer's recommended procedures to ensure complete water integrity performance of louver system. Louvers to be furnished with 1/2" (12.7 mm) mesh screen secured within a 12 B & S gauge extruded aluminum frame.

STRUCTURAL DESIGN: Structural supports shall be designed and furnished by the louver manufacturer to carry a wind load of not less than _____ psf. (kPa). (Note: If this paragraph is omitted or if the design wind load is not specified, the louvers will be manufactured in self supporting units up to a maximum of 5' (1524 mm) wide by 8' (2438 mm) high. Any additional structural supports required to adequately secure these units within the opening shall be the responsibility of others.)

FINISH: All louvers shall be finished with C/S Powder Coat, a coating to be 1.5 to 3 mil. thick full strength **100% resin Fluoropolymer coating. Finish to allow zero VOCs** to be emitted into facility of application. Finish to adhere to a 4H Hardness rating. All finishing procedures shall be one continuous operation in the plant of the manufacturer. **The coating shall meet or exceed all requirements of AAMA specification 2605-5** "Voluntary Specification for High Performance Organic Coatings on Architectural extrusions and Panels." The louver manufacturer shall supply an industry standard **20-year limited warranty against failure or excessive fading** of the Fluoropolymer Powder Coat finish. This limited warranty shall begin on the date of material shipment.



WIND DRIVEN RAIN PERFORMANCE:

The louver test was based on a 39.370" (1.00 m) x 39.370" (1.00 m) core area unit tested at a rainfall rate of 3" per hour (75 mm/hr) and with a wind directed to the face of the louver at a velocity 29.1-mph (13 m/s). The test data shall show the water penetration effectiveness rating at each corresponding ventilation rate.

| | | | | | | | | |
|--------------------------------------|---------------|-----|-------------------|-----|-------------------|-----|---------------|------|
| Core Ventilation Rate (m/s): | 0.0 | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 |
| Core Ventilation Rate (ft/min): | 0 | 98 | 197 | 295 | 394 | 492 | 591 | 689 |
| Free Area Ventilation Rate (ft/min): | 0 | 188 | 379 | 567 | 757 | 946 | 1135 | 1324 |
| Rating Effectiveness: | A | A | B | B | C | C | D | D |
| Effectiveness Rating: | A = 1 to 0.99 | | B = 0.989 to 0.95 | | C = 0.949 to 0.80 | | D = 0.80 to 0 | |

#519 SANDSTONE

