

3363 & 3365 THIRD AVENUE

BRONX, NEW YORK

REMEDIAL ACTION WORK PLAN

NYC VCP Project Number: 15EHAZ318X

OER Project Number: 16VCP021X

Prepared For:

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REMEDIAL ACTION WORK PLAN

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LIST OF ACRONYMS

| Acronym | Definition |
|----------------|--|
| AOC | Area of Concern |
| AS/SVE | Air Sparging/Soil Vapor Extraction |
| BOA | Brownfield Opportunity Area |
| CAMP | Community Air Monitoring Plan |
| C&D | Construction and Demolition |
| CEQR | City Environmental Quality Review |
| CFR | Code of Federal Regulations |
| CHASP | Construction Health and Safety Plan |
| COC | Certificate of Completion |
| CQAP | Construction Quality Assurance Plan |
| CSOP | Contractors Site Operation Plan |
| DCR | Declaration of Covenants and Restrictions |
| ECs/ICs | Engineering Controls and Institutional Controls |
| ELAP | Environmental Laboratory Accreditation Program |
| HASP | Health and Safety Plan |
| HAZWOPER | Hazardous Waste Operations Emergency Response |
| IRM | Interim Remedial Measure |
| MNA | Monitored Natural Attenuation |
| NOC | Notice of Completion |
| NYS DEC | New York State Department of Environmental Conservation |
| NYC DEP | New York City Department of Environmental Protection |
| NYC DOHMH | New York State Department of Health and Mental Hygiene |
| NYC OER | New York City Office of Environmental Remediation |
| NYC VCP | New York City Voluntary Cleanup Program |
| NYCRR | New York Codes Rules and Regulations |
| NYS DEC | New York State Department of Environmental Conservation |
| NYS DEC DER | New York State Department of Environmental Conservation Division of Environmental Remediation |
| NYS DOH | New York State Department of Health |
| NYS DOT | New York State Department of Transportation |
| ORC | Oxygen-Release Compound |
| OSHA | United States Occupational Health and Safety Administration |
| PCBs | Polychlorinated Biphenyls |
| PE | Professional Engineer |
| PID | Photoionization Detector |

| Acronym | Definition |
|----------------|--|
| QEP | Qualified Environmental Professional |
| QHHEA | Qualitative Human Health Exposure Assessment |
| RAOs | Remedial Action Objectives |
| RAR | Remedial Action Report |
| RAWP | Remedial Action Work Plan or Plan |
| RCA | Recycled Concrete Aggregate |
| RD | Remedial Design |
| RI | Remedial Investigation |
| RMZ | Residual Management Zone |
| SCOs | Soil Cleanup Objectives |
| SCG | Standards, Criteria, and Guidance |
| SMP | Site Management Plan |
| SPDES | State Pollutant Discharge Elimination System |
| SSDS | Sub-Slab Depressurization System |
| SVOC | Semivolatile Organic Compound |
| TAL | Target Analyte List |
| TCL | Target Compound List |
| USGS | United States Geological Survey |
| UST | Underground Storage Tank |
| VCA | Voluntary Cleanup Agreement |
| VOC | Volatile Organic Compound |

CERTIFICATION

I, Michelle Lapin, am currently a registered professional engineer licensed by the State of New York. I performed professional engineering services and had primary direct responsibility for designing the remedial program for the 3363 and 3365 Third Avenue site, VCP Site number 15CVCP021X. I certify to the following:

- I have reviewed this document and the Stipulation List, to which my signature and seal are affixed.
- Engineering Controls developed for this remedial action were designed by me or a person under my direct supervision and designed to achieve the goals established in this Remedial Action Work Plan (RAWP) for this site.
- The Engineering Controls to be constructed during this remedial action are accurately reflected in the text and drawings of the RAWP and are of sufficient detail to enable proper construction.
- This RAWP has a plan for handling, transport and disposal of soil, fill, fluids, and other materials removed from the property in accordance with applicable city, state, and federal laws and regulations. Importation of all soil, fill, and other material from off-site will be in accordance with all applicable city, state, and federal laws and requirements. This RAWP has provisions to control nuisances during the remediation and all invasive work, including dust and odor suppression.

Michelle Lapin

Name

PE Stamp

PE License Number

Signature

Date

CERTIFICATION

I, Stephen Malinowski, am a qualified Environmental Professional. I will have primary direct responsibility for implementation of the remedial program for the 3363 and 3365 Third Avenue site, VCP Site number 15CVCP021X. I certify to the following:

- This RAWP has a plan for handling, transport and disposal of soil, fill, fluids, and other materials removed from the property in accordance with applicable city, state, and federal laws and regulations. Importation of all soil, fill, and other material from off-site will be in accordance with all applicable city, state, and federal laws and requirements. This RAWP has provisions to control nuisances during the remediation and all invasive work, including dust and odor suppression.

Stephen Malinowski

QEP Name

QEP Signature

Date

EXECUTIVE SUMMARY

Bronx Pro Group is working with the NYC Office of Environmental Remediation (OER) in the New York City Voluntary Cleanup Program (VCP) to investigate and remediate an approximately 8,652-square foot property located at 3363 and 3365 Third Avenue in the Bronx, New York, herein referred to as the “Site”. A Remedial Investigation (RI) was performed to compile and evaluate data and information necessary to develop this Remedial Action Work Plan (RAWP). The remedial action described in this document provides for the protection of public health and the environment consistent with the intended property use; complies with applicable environmental standards, criteria, and guidance (SCG); and conforms to applicable laws and regulations.

Site Location and Background

The Site is located at 3363 and 3365 Third Avenue in the Morrisania neighborhood of the Bronx, New York and is identified as Block 2370, Lots 33 and 34 on the New York City Tax Map. A map showing the Site location is provided as Figure 1. The Site is approximately 8,652 square feet. Currently, Lot 33 contains a vacant three-story commercial building with a west-adjacent yard and Lot 34 consists of an asphalt-paved lot. A map showing the Site boundary is provided as Figure 2.

Summary of Redevelopment Plan

The proposed development project consists of the demolition of the existing Site building and the construction of a nine-story mixed-use building with community space in the cellar and on the first floor, and approximately 30 affordable housing units above. Excavation is expected to extend to approximately 14 feet below grade across the majority of the Site, with excavation to approximately 12 feet for two exterior basement-level courtyards and localized excavation extending to approximately 20 feet in the south and north-central portions of the Site to accommodate two elevator pits. The current zoning designation is M1-1/R7-2 (mixed manufacturing and residential uses). The proposed development would change this to R-2B (residential use) to accommodate the new construction. Proposed development plans are included as Appendix A.

Summary of Surrounding Property

The surrounding area primarily included residential and commercial properties with some institutional and religious uses. The Site is bounded by a vacant building to the north, a residential building to the south, Third Avenue followed by commercial and residential buildings to the east, and residential apartment buildings to the west. A day care facility is located at 507-509 East 165th Street, approximately 185 feet south of the Site. Figure 3 shows the surrounding land usage.

Summary of Past Site Uses and Areas of Concern

Historical Sanborn maps indicated that former Site uses included woodworking, a dental laboratory, a chemical and color company, a scrap metal company, and an automotive repair shop. A 1965 Certificate of Occupancy (C of O) for Lot 33 indicated furniture manufacturing on the first and second floors.

The following were considered Areas of Concern (AOCs) for the investigation:

1. Lot 34 contains an (E) Designation for hazardous materials listed in the Department of City Planning (E) Designation database established as part of the rezoning of Morrisania.
2. Historical fill may be present at the Site.
3. A petroleum spill was reported at the south-adjacent property, 3361 Third Avenue, in June 2006, which subsequently received a closed status. This property was also listed as a generator of 57,120 pounds of hazardous waste that exhibited the characteristic of reactivity in 2013; and wastes exhibiting the characteristic of toxicity, including: 98,300 pounds of mercury, 8,661,160 pounds of

lead, and 102,680 pounds of cadmium in 2014. Based on information provided by Bronx Pro Group, which was involved with this redevelopment, the hazardous waste was identified in the fill excavated during redevelopment. The contamination was attributed to demolition debris from former structures. The contamination was removed under an OER-approved RAWP.

4. The surrounding area was developed historically with automotive repair shops, garages with gasoline tanks, a motor freight station, a tin shop, an upholsterer, a printer, paint stores, a picture framing store, and a laundry facility. Historical manufacturing uses in the surrounding area included: a structural iron works, a dye house, a lacquer spraying facility, a metal products manufacturer, a sheet metals works, and fixture manufacturers. An elevated railway and associated station were formerly located north of the Site on Third Avenue until some time in the 1950s or 1960s.

Summary of Work Performed under the Remedial Investigation

AKRF performed the following scope of work on behalf of Bronx Pro Group:

1. Conducted a Site inspection to identify AOCs and physical obstructions (e.g., structures and buildings);
2. Conducted a geophysical investigation across accessible areas of the Site to locate subsurface structures, including potential underground storage tanks (USTs) and utilities, and to clear the proposed sampling locations;
3. Installed nine borings at the Site and collected fourteen soil samples for chemical analysis from the borings to evaluate soil quality;
4. Installed three temporary groundwater monitoring wells at the Site to establish groundwater flow and collected three groundwater samples for chemical analysis to evaluate groundwater quality; and
5. Installed three soil gas probes at the Site and collected three soil gas samples for chemical analysis.

Summary of Findings of Remedial Investigation

1. Elevation of the Site is approximately 40 feet above the North American Vertical Datum of 1988.
2. Depth to groundwater ranges from 15.12 to 16.7 feet below grade at the Site.
3. Groundwater flow is generally from southeast to northwest towards the Harlem River.
4. Bedrock was not encountered during the RI.
5. The stratigraphy of the Site, from the surface down, consists of between 5 and 12 (or more) feet of historical fill characterized by brown sand and silt with gravel, brick, asphalt, concrete, plastic, and glass. Below the fill is an apparent native brown sand stratum with silt and fine gravel to the termination of each boring.
6. Soil/fill samples collected during the RI were compared to the Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs). No VOCs were detected in any soil samples except chloroform at trace levels in one soil sample, detected at an estimated concentration of 0.35 micrograms per kilogram ($\mu\text{g}/\text{kg}$), below the UUSCO and RRSCOs. Twenty-four SVOCs were detected in one or more samples ranging from concentrations of 14.2 $\mu\text{g}/\text{kg}$ to 1,320 $\mu\text{g}/\text{kg}$. Five SVOCs consisting of the polycyclic aromatic hydrocarbons (PAHs), including benz(a)anthracene (maximum of 1,500 $\mu\text{g}/\text{kg}$), benzo(a)pyrene (maximum of 1,840 $\mu\text{g}/\text{kg}$), benzo(b)fluoranthene (maximum of 2,360 $\mu\text{g}/\text{kg}$), dibenz(a,h)anthracene (maximum of 411), and indeno(1,2,3-cd)pyrene (maximum of 1,650 $\mu\text{g}/\text{kg}$) were detected at concentrations exceeding RRSCOs within one shallow and two deep soil samples. Metals including barium (maximum of 1,370 $\mu\text{g}/\text{kg}$), cadmium (maximum of 6.1 $\mu\text{g}/\text{kg}$), copper (maximum of 661 $\mu\text{g}/\text{kg}$), lead (maximum of 1,390 $\mu\text{g}/\text{kg}$), mercury (maximum of 0.68 $\mu\text{g}/\text{kg}$),

nickel (maximum of 49.6 µg/kg), and zinc (maximum of 1,000 µg/kg) were detected above UUSCOs. Of these metals, barium, cadmium, copper, and lead also exceeded RRSCOs in two shallow soil samples and one deep soil sample. Total polychlorinated biphenyls (PCBs) in one shallow soil sample exceeded the UUSCO at a concentration of 119 µg/kg. The pesticides 4, 4'-DDD, 4, 4'-DDE, 4, 4'-DDT, and chlordane were detected in several samples exceeding UUSCOs at respective concentrations of 13.2 µg/kg, 15.6 µg/kg, 49.3 µg/kg, and 10.2 µg/kg. All VOCs, pesticides, and PCBs were detected at concentrations below respective RRSCOs. Overall, the soil results were consistent with data associated with historic fill material in NYC.

7. Groundwater samples results were compared to New York State 6NYCRR Part 703.5 Class GA groundwater quality standards (GQS). The VOCs chloroform, tetrachloroethene, toluene, and trichloroethene and the SVOC diethyl phthalate were detected at trace concentrations below their respective GQSs. Several metals were identified in the groundwater samples, but only magnesium, manganese, and sodium were detected above their GQSs. No PCBs or pesticides were detected in the groundwater samples.
8. Soil vapor sampling results were compared to the NYSDOH 2006 *Guidance for Evaluating Soil Vapor Intrusion* Air Guideline Values (AGVs) and Matrices, the September 2013 NYSDOH Fact Sheet update for PCE, the August 2015 Fact Sheet update for TCE, and the Indoor Upper Fence Guidelines. The results identified 32 VOCs in the three samples. Fifteen detections were at concentrations exceeding Upper Fence Guideline Values. VOCs associated with petroleum [including benzene, toluene, ethylbenzene, xylenes (collectively referred to as BTEX), 2,2,4-trimethylpentane, were detected at concentrations up to 67 micrograms per cubic meter (µg/m³). Solvent-related VOCs [including acetone, chloroform, cyclohexane, hexane, PCE, 1,1,1-trichloroethane and methyl ethyl ketone (MEK)] were detected at concentrations up to 294 µg/m³. Acetone was detected in all soil gas samples; however, acetone is a common laboratory contaminant and may not be indicative of Site conditions. PCE was detected in soil vapor sample SV-1 at a concentration of 215 µg/m³, above the AGV of 30 µg/m³. TCE was detected in soil vapor sample SV-1 at a concentration of 3.9 µg/m³, above the AGV of 2 µg/m³.
9. Based on an evaluation of the data and information from the investigation, there is some contaminated soil and soil gas present at the Site, seemingly related to the historical fill, and PCE and TCE above respective NYSDOH AGVs in soil vapor sample SV-1.

Summary of the Remedial Action

The proposed remedial action achieves protection of public health and the environment for the intended use of the property. The proposed remedial action achieves all of the Remedial Action Objectives (RAOs) established for the project and addresses applicable standards, criterion, and guidance; is effective in both the short-term and long-term and reduces mobility, toxicity, and volume of contaminants; is cost effective and implementable; and uses standards methods that are well established in the industry.

The proposed remedial action will consist of:

1. Preparation of a Community Protection Statement and performance of all required VCP Citizen Participation activities according to an approved CPP.
2. Performance of a Community Air Monitoring Program (CAMP) for particulates and volatile organic carbon compounds (VOCs).
3. Establishment of Track 4 Site-Specific Soil Cleanup Objectives (SSCOs).

4. Site mobilization involving Site security setup, equipment mobilization, utility mark outs, and marking & staking excavation areas.
5. Perform additional Site characterization sampling of soil to confirm elevated contaminant levels are removed.
6. Completion of a Waste Characterization Study prior to excavation activities. Waste characterization soil samples will be collected at a frequency dictated by disposal facility(s). A Waste Characterization Report documenting sample procedures, location, analytical results shall be submitted to NYCOER prior to start of remedial action.
7. Excavation and removal of soil/fill exceeding Track 4 SSSCOs. Excavation is expected to extend approximately 14 feet below grade at the location of the proposed building, to approximately 12 feet below grade at the western and south-central portions of the Site for basement-level exterior courtyards, and to approximately 20 feet in the south and north-central portions of the Site to accommodate two elevator pits. Approximately 4,300 cubic yards of soil will be excavated and removed from the Site.
8. Screening of excavated soil/fill during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID. Appropriate segregation of excavated media on-site.
9. Management of excavated materials including temporarily stockpiling and segregating in accordance with defined material types and to prevent co-mingling of contaminated material and non-contaminated materials.
10. Removal of any USTs that are encountered during soil/fill removal actions. Registration of tanks and reporting of any petroleum spills and appropriate closure of these petroleum spills in compliance with applicable local, state, and federal laws and regulations.
11. Transportation and off-site disposal of all excess soil/fill material at licensed or permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal, and this plan. Sampling and analysis of material as required by disposal facilities. Appropriate segregation of material on-site.
12. Collection and analysis of endpoint samples to determine the performance of the remedy with respect to attainment of Site Specific SCOs.
13. Demarcation of residual soil/fill at the locations of the two exterior courtyards.
14. Import of materials to be used for backfill and cover in compliance with this plan and in accordance with applicable laws and regulations.
15. Installation of a passive SSDS consisting of a network of horizontal pipes set in the middle of a gas permeable layer immediately beneath the building slab and vapor barrier system. One leg of horizontal piping will consist of slotted schedule 40 4-inch PVC pipe connecting to solid schedule 40 PVC pipe underground and penetrating the slab, 4-inch galvanized steel riser pipe above the slab that travels through the building to the roof. The gas permeable layer will consist of a 6-inch thick layer of gas permeable aggregate. The riser will terminate on the elevator bulkhead roof and connect to a blower and exhaust stack. The exhaust stack will terminate 2 feet above the parapet or 6 feet above the roof, and at least 10 feet from all windows, openings, air intakes, and outdoor occupied spaces. The layout of the SSDS and specification of the system are included in Appendix F.
16. Installation of vapor controls consisting of a vapor barrier beneath the building slab and outside of the sub-grade foundation sidewalls to grade to mitigate soil vapor migration into the building. The vapor barrier system will consist of Grace Preprufe® 300R or an equivalent

- membrane that meets or exceeds ASTM's E-1745 standard. All welds, seams, and penetrations will be sealed in accordance with the manufacturer's specifications to prevent preferential pathways for vapor migration. The vapor barrier system is an Environmental Control (EC) for the remedial action. The remedial engineer will certify in the Remedial Action Report (RAR) that the vapor barrier system was designed and properly installed to mitigate soil vapor migration into the building.
17. Construction of an engineered composite cover consisting of a six-inch concrete building slab beneath the building foundation and two feet of clean fill (with pervious pavers) in the exterior courtyard areas.
 18. Import of materials to be used for backfill and cover in compliance with this plan and in accordance with applicable laws and regulations.
 19. Performance of all activities required for the remedial action, including acquisition of required permits and attainment of pretreatment requirements, in compliance with applicable laws and regulations.
 20. If required, dewatering in compliance with city, state, and federal laws and regulations. Extracted groundwater will either be containerized for off-site licensed or permitted disposal or will be discharged under a permit from NYCDEP with treatment, if necessary, to meet sewer use requirements prior to discharge to the sewer system.
 21. Implementation of stormwater pollution prevention measures in compliance with applicable laws and regulations.
 22. Submission of a Remedial Action Report (RAR) that describes the remedial activities, certifies that the remedial requirements have been achieved, defines the Site boundaries, lists any changes from this RAWP, and describes all ECs and ICs to be implemented at the Site.
 23. Submission of an approved SMP in the RAR for long-term management of residual contamination, including plans for operation, maintenance, monitoring, inspection and certification of ECs and ICs and reporting at a specified frequency.
 24. The property will continue to be registered with an (E) Designation at the DOB. Establishment of ECs and Institutional Controls (ICs) in this RAWP and a requirement that management of these controls must be in compliance with an approved SMP. ICs will include prohibition of the following: (1) vegetable gardening and farming; (2) use of groundwater without treatment rendering it safe for the intended use; (3) disturbance of residual contaminated material unless it is conducted in accordance with the SMP; and (4) higher level of land usage without OER approval.

COMMUNITY PROTECTION STATEMENT

The NYC Office of Environmental Remediation (OER) provides governmental oversight for the cleanup of contaminated property in NYC. This Remedial Action Work Plan (RAWP) (“cleanup plan”) describes the findings of prior environmental studies, shows the location of identified contamination at the Site, and describes the plans to clean up the Site to protect public health and the environment. This cleanup plan provides a very high level of protection for neighboring communities and also includes many other elements that address common community concerns, such as community air monitoring, odor, dust and noise controls, hours of operation, good housekeeping and cleanliness, truck management and routing, and opportunities for community participation. The purpose of this Community Protection Statement is to explain these community protection measures in non-technical language to simplify community review.

Project Information:

- Site Address: 3363 and 3365 Third Avenue, Bronx, New York, 10456
- NYC Voluntary Cleanup Program Project Number: 16CVCP021X

Project Contacts:

- OER Project Manager: Katherine Glass (212) 676-4925
- Site Project Manager: Justin Stein (718) 294-5840
- Site Safety Officer (SSO): Mark Jepsen (646) 388-9567
- Alternate SSO: Holly Hawkins (718) 598-0827
- Online Document Repository:
<http://www.nyc.gov/html/oer/html/document-repository/document-repository.html>

Remedial Investigation and Cleanup Plan: Under the oversight of OER, a thorough study of this Site (called a remedial investigation) has been performed to identify past property usage, to sample and test soils, groundwater and soil vapor, and to identify contaminant sources present on the Site. The cleanup plan has been designed to address all contaminant sources that have been identified during the study of this Site.

Identification of Sensitive Land Uses: Prior to selecting a cleanup, the neighborhood was evaluated to identify sensitive land uses nearby, such as schools, day care facilities, hospitals, and residential areas. The cleanup program was then tailored to address the special conditions of this community.

Qualitative Human Health Exposure Assessment: An important part of the cleanup planning for the Site is a study to find all of the ways that people might come in contact with contaminants at the Site now or in the future. This study is called a Qualitative Human Health Exposure Assessment (QHHEA). A QHHEA was performed for this project. This assessment has considered all known contamination at the Site and evaluated the potential for people to come in contact with this contamination. All identified public exposures will be addressed under this cleanup plan.

Health and Safety Plan: This cleanup plan includes a Construction Health and Safety Plan (CHASP) that is designed to protect community residents and on-site workers. The elements of this RAWP are in compliance with applicable safety requirements of the United States Occupational Safety and Health Administration (OSHA). This RAWP includes many protective elements including those discussed below.

Site Safety Officer: This project has a designated Site Safety Officer (SSO) to implement the CHASP. The safety coordinator maintains an emergency contact sheet and protocol for management of emergencies. The SSO is identified at the beginning of this Community Protection Statement.

Worker Training: Workers participating in cleanup of contaminated material on this project are required to be trained in a 40-hour hazardous waste operators training course and to take annual refresher training. This pertains to workers performing specific tasks, including removing contaminated material and installing cleanup systems in contaminated areas.

Community Air Monitoring Plan: Community air monitoring will be performed during this cleanup project to ensure that the community is properly protected from contaminants, dust, and odors. Air samples will be tested in accordance with a detailed plan called the Community Air Monitoring Plan (CAMP). Results will be regularly reported to the OER. This cleanup plan also has a plan to address any unforeseen problems that might occur during the cleanup (called a ‘Contingency Plan’).

Odor, Dust, and Noise Control: This cleanup plan includes actions for odor and dust control. These actions are designed to prevent off-site odor and dust nuisances and includes steps to be taken if nuisances are detected. Generally, dust is managed by application of physical covers and by water sprays. Odors are controlled by limiting the area of open excavations, physical covers, spray foams, and by a series of other actions (called operational measures). The project is also required to comply with applicable NYC noise control standards. If you observe problems in these areas, please contact the on-site project manager or OER project manager listed on the first page of this Community Protection Statement document.

Quality Assurance: This cleanup plan requires that evidence be provided to illustrate that all cleanup work required under the plan has been completed properly. This evidence will be summarized in the final report, called the Remedial Action Report (RAR). This report will be submitted to OER and will be thoroughly reviewed.

Stormwater Management: To limit the potential for soil erosion and discharge, this cleanup plan has provisions for stormwater management. The main elements of the stormwater management include physical barriers such as tarp covers and erosion fencing, and a program for frequent inspection.

Hours of Operation: The hours of operation of Site work will comply with the NYC Department of Buildings (DOB) construction code requirements or according to specific variances issued by that agency. For this cleanup project, the hours of operation will conform to requirements of the DOB.

Signage: While the cleanup is in progress, a placard will be prominently posted at the main entrance of the property with a laminated project Fact Sheet that states that the project is in the VCP and provides project contact names and numbers, and a link to the document repository where project documents can be viewed.

Complaint Management: The contractor performing this cleanup is required to address all complaints. If you have any complaints, you can call the facility project manager or the OER project manager listed on the first page of this Community Protection Statement document, or call 311 and mention the Site is in the VCP.

Utility Mark Outs: To promote safety during excavation in this cleanup, the contractor is required to first identify all utilities and must perform all excavation and construction work in compliance with DOB regulations.

Soil and Liquid Disposal: All soil and liquid material removed from the Site will be transported and disposed of in accordance with all applicable city, state, and federal regulations. All required permits will be obtained.

Soil Chemical Testing and Screening: All excavations will be supervised by a trained and properly Qualified Environmental Professional (QEP). In addition to the existing sampling and waste characterization testing of on-site soils, excavated soil will be screened continuously using hand-held instruments, and by sight and smell to ensure proper material handling, management, and community protection.

Stockpile Management: Soil stockpiles will be kept covered with tarps to prevent dust, odor and erosion. Stockpiles will be frequently inspected. Damaged tarp covers will be promptly replaced. Stockpiles will be protected with silt fences. Hay bales will be used, as needed, to protect storm water catch basins and other discharge points.

Trucks and Covers: Loaded trucks leaving the Site will be covered in compliance with applicable laws and regulations to prevent dust and odor. Trucks will be properly recorded in logs and records and placarded in compliance with applicable city, state, and federal laws, including those of the New York State Department of Transportation (DOT). If trucks hauling soil off-site contain wet material that can leak, truck liners will be used. All transport of materials will be performed by licensed truckers and in compliance with applicable laws and regulations.

Imported Material: All fill materials proposed to be brought onto the Site will comply with rules outlined in this cleanup plan and will be inspected and approved by a qualified worker located on the Site. Waste materials will not be brought onto the Site. Trucks entering the Site with imported clean materials will be covered in compliance with applicable laws and regulations.

Equipment Decontamination: All equipment used for cleanup work will be inspected and washed, if needed, before it leaves the Site. Trucks will be cleaned at a truck inspection station on the property before leaving the Site.

Housekeeping: Locations where trucks enter or leave the Site will be inspected every day and cleaned regularly to ensure that they are free of dirt and other materials from the Site.

Truck Routing: Truck routes have been selected to: (a) limit transport through residential areas and past sensitive nearby properties; (b) maximize use of city-mapped truck routes; (c) limit total distance to major highways; (d) promote safety in entry to highways; (e) promote overall safety in trucking; and (f) minimize off-site line-ups (queuing) of trucks entering the Site. Operators of loaded trucks leaving the Site will be instructed not to stop or idle in the local neighborhood.

Final Report: The results of all cleanup work will be fully documented in a final report [called the Remedial Action Report (RAR)] that will be available for public review online. A link to the online document repository and the public library with internet access nearest the Site are listed on the first page of this Community Protection Statement document.

Long Term Site Management: If long term protection is needed after the cleanup is complete, the property owner will be required to comply with an ongoing Site Management Plan (SMP) that calls for continued inspection of protective controls, such as Site covers. The SMP is evaluated and approved by OER. Requirements that the property owner must comply with are defined either in the property's deed or established through a city environmental designation registered with the DOB. A certification of continued protectiveness of the cleanup will be required from time to time to show that the approved cleanup is still effective.

REMEDIAL ACTION WORK PLAN

1.0 PROJECT BACKGROUND

Bronx Pro Group is working with the NYC Office of Environmental Remediation (OER) in the New York City Voluntary Cleanup Program (VCP) to investigate and remediate a property located at 3363 and 3365 Third Avenue in the Morrisania section of the Bronx, New York, herein referred to as “the Site”. A Remedial Investigation (RI) was performed to compile and evaluate data and information necessary to develop this Remedial Action Work Plan (RAWP) in a manner that will render the Site protective of public health and the environment consistent with the contemplated end use. This RAWP establishes remedial action objectives, provides a remedial alternatives analysis that includes consideration of a permanent cleanup, and provides a description of the selected remedial action. The remedial action described in this document provides for the protection of public health and the environment, and complies with applicable environmental standards, criteria, and guidance and applicable laws and regulations.

1.1 Site Location and Background

The Site is located at 3363 and 3365 Third Avenue in the Morrisania neighborhood of the Bronx, New York and is identified as Block 2370 Lots 33 and 34 on the New York City Tax Map. A map showing the Site location is provided as Figure 1. The Site is approximately 8,652 square feet. A map showing the Site boundary is provided as Figure 2.

1.2 Redevelopment Plan

The proposed development project consists of the demolition of the existing Site building and the construction of a nine-story mixed-use building with community space in the cellar and on the first floor, and approximately 30 affordable housing units above. Excavation is expected to extend approximately 14 feet below grade at the location of the proposed building, to approximately 12 feet below grade at the western and south-central portions of the Site for basement-level exterior courtyards, and to approximately 20 feet in the south and north-central portions of the Site to accommodate two elevator pits. The current zoning designation is M1-1/R7-2 (mixed manufacturing and residential uses). The proposed development would change this to R-2B (residential use) to accommodate the new construction. Proposed development plans are included as Appendix A.

1.3 Description of Surrounding Property

The surrounding area primarily included residential and commercial properties with some institutional and religious uses. The Site is bounded by a vacant building to the north, a residential building to the south, Third Avenue followed by commercial and residential buildings to the east, and residential apartment buildings to the west. A day care facility is located at 507-509 East 165th Street, approximately 185 feet south of the Site. Figure 3 shows the surrounding land usage.

1.4 Summary of Past Site Uses and Areas of Concern

Historical Sanborn maps indicated that former Site uses included woodworking, a dental laboratory, a chemical and color company, a scrap metal company, and an automotive repair shop. A 1965 Certificate of Occupancy (C of O) for Lot 33 indicated furniture manufacturing on the first and second floors.

The following were considered Areas of Concern (AOCs) for the investigation:

1. Lot 34 contains an (E) Designation for hazardous materials listed in the Department of City Planning (E) Designation database established as part of the rezoning of Morrisania.
2. Historical fill may be present at the Site.
3. A petroleum spill was reported at the south-adjacent property, 3361 Third Avenue, in June 2006, which subsequently received a closed status. This property was also listed as a generator of 57,120 pounds of hazardous waste that exhibited the characteristic of reactivity in 2013; and wastes exhibiting the characteristic of toxicity: 98,300 pounds of mercury, 8,661,160 pounds of lead, and 102,680 pounds of cadmium in 2014. Based on information provided by Bronx Pro Group, which was involved with this redevelopment, the hazardous waste was identified in the fill excavated during redevelopment. The contamination was attributed to demolition debris from former structures. The contamination was removed under an OER-approved RAWP.
4. The surrounding area was developed historically with automotive repair shops, garages with gasoline tanks, a motor freight station, a tin shop, an upholsterer, a printer, paint stores, a picture framing store, and a laundry facility. Historical manufacturing uses in the surrounding area included: a structural iron works, a dye house, a lacquer spraying facility, a metal products manufacturer, a sheet metals works, and fixture manufacturers. An elevated railway and associated station were formerly located north of the Site on Third Avenue until some time in the 1950s or 1960s.

1.5 Summary of Work Performed under the Remedial Investigation

AKRF performed the following scope of work on behalf of Bronx Pro Group:

1. Conducted a Site inspection to identify AOCs and physical obstructions (e.g., structures and buildings);
2. Conducted a geophysical investigation across accessible areas of the Site to locate subsurface structures, including potential underground storage tanks (USTs) and utilities, and to clear the proposed sampling locations;
3. Installed nine borings at the Site and collected fourteen soil samples for chemical analysis from the borings to evaluate soil quality;
4. Installed three temporary groundwater monitoring wells at the Site to establish groundwater flow and collected three groundwater samples for chemical analysis to evaluate groundwater quality; and
5. Installed three soil gas probes at the Site and collected three soil gas samples for chemical analysis.

1.6 Summary of Findings of Remedial Investigation

A remedial investigation was performed and the results are documented in the Remedial Investigation Report (RIR).

1. Elevation of the Site is approximately 40 feet above the North American Vertical Datum of 1988.
2. Depth to groundwater ranges from 15.12 to 16.7 feet below grade at the Site.
3. Groundwater flow is generally from southeast to northwest towards the Harlem River.
4. Bedrock was not encountered during the RI.

5. The stratigraphy of the Site, from the surface down, consists of between 5 and 12 (or more) feet of historical fill characterized by brown sand and silt with gravel, brick, asphalt, concrete, plastic, and glass. Below the fill is an apparent native brown sand stratum with silt and fine gravel to the termination of each boring.
6. Soil/fill samples collected during the RI were compared to the Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs). No VOCs were detected in any soil samples except chloroform at trace levels in one soil sample, detected at an estimated concentration of 0.35 micrograms per kilogram ($\mu\text{g}/\text{kg}$), below the UUSCO and RRSCOs. Twenty-four SVOCs were detected in one or more samples ranging from concentrations of 14.2 $\mu\text{g}/\text{kg}$ to 1,320 $\mu\text{g}/\text{kg}$. Five SVOCs consisting of the polycyclic aromatic hydrocarbons (PAHs), including benz(a)anthracene (maximum of 1,500 $\mu\text{g}/\text{kg}$), benzo(a)pyrene (maximum of 1,840 $\mu\text{g}/\text{kg}$), benzo(b)fluoranthene (maximum of 2,360 $\mu\text{g}/\text{kg}$), dibenz(a,h)anthracene (maximum of 411), and indeno(1,2,3-cd)pyrene (maximum of 1,650 $\mu\text{g}/\text{kg}$) were detected at concentrations exceeding RRSCOs within one shallow and two deep soil samples. Metals including barium (maximum of 1,370 $\mu\text{g}/\text{kg}$), cadmium (maximum of 6.1 $\mu\text{g}/\text{kg}$), copper (maximum of 661 $\mu\text{g}/\text{kg}$), lead (maximum of 1,390 $\mu\text{g}/\text{kg}$), mercury (maximum of 0.68 $\mu\text{g}/\text{kg}$), nickel (maximum of 49.6 $\mu\text{g}/\text{kg}$), and zinc (maximum of 1,000 $\mu\text{g}/\text{kg}$) were detected above UUSCOs. Of these metals, barium, cadmium, copper, and lead also exceeded RRSCOs in two shallow soil samples and one deep soil sample. Total polychlorinated biphenyls (PCBs) in one shallow soil sample exceeded the UUSCO at a concentration of 119 $\mu\text{g}/\text{kg}$. The pesticides 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, and chlordane were detected in several samples exceeding UUSCOs at respective concentrations of 13.2 $\mu\text{g}/\text{kg}$, 15.6 $\mu\text{g}/\text{kg}$, 49.3 $\mu\text{g}/\text{kg}$, and 10.2 $\mu\text{g}/\text{kg}$. All VOCs, pesticides, and PCBs were detected at concentrations below respective RRSCOs. Overall, the soil results were consistent with data associated with historic fill material in NYC.
7. Groundwater samples results were compared to New York State 6NYCRR Part 703.5 Class GA groundwater quality standards (GQS). Four VOCs including chloroform, tetrachloroethene, toluene, and trichloroethene and one SVOC, diethyl phthalate were detected at trace concentrations, all below their respective GQSs. Twenty metals were detected in the unfiltered groundwater samples (total metals analysis) and four metals in the filtered samples (dissolved metals analysis). Fifteen total metals: arsenic, barium, beryllium, cadmium, chromium, copper, iron lead, magnesium, manganese, mercury, nickel, selenium, sodium, and zinc were detected above Class GA standards in at least one sample. Several metals were identified in groundwater, but only magnesium, manganese, and sodium were detected above their GQSs. No PCBs or pesticides were detected in the groundwater samples.
8. Soil vapor sampling results were compared to the NYSDOH 2006 Guidance for Evaluating Soil Vapor Intrusion Air Guideline Values (AGVs) and Matrices, the September 2013 NYSDOH Fact Sheet update for PCE, the August 2015 Fact Sheet update for TCE, and the Indoor Upper Fence Guidelines. The results identified 32 VOCs in the three samples. Fifteen detections were at concentrations exceeding Upper Fence Guideline Values. VOCs associated with petroleum [including benzene, toluene, ethylbenzene, xylenes (collectively referred to as BTEX), 2,2,4-trimethylpentane, were detected at concentrations up to 67 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). Solvent-related VOCs [including acetone, chloroform, cyclohexane, hexane, PCE, 1,1,1-trichloroethane and methyl ethyl ketone (MEK)] were detected at concentrations up to 294 $\mu\text{g}/\text{m}^3$. Acetone was detected in all soil gas samples; however, acetone is a common laboratory contaminant and may not be indicative of Site conditions. PCE was detected in soil vapor sample SV-1 at a concentration of 215 $\mu\text{g}/\text{m}^3$,

above the AGV of $30 \mu\text{g}/\text{m}^3$. TCE was detected in soil vapor sample SV-1 at a concentration of $3.9 \mu\text{g}/\text{m}^3$, above the AGV of $2 \mu\text{g}/\text{m}^3$.

9. Based on an evaluation of the data and information from the investigation, there is some contaminated soil and soil gas present at the Site, seemingly related to the historical fill, and PCE and TCE above the NYSDOH AGVs in soil vapor sample SV-1.

2.0 REMEDIAL ACTION OBJECTIVES (RAOs)

Based on the results of the RI, the following RAOs have been identified for this Site:

Soil

- Prevent direct contact with contaminated soil.

Groundwater

- Prevent exposure to contaminants volatilizing from contaminated groundwater.

Soil Vapor

- Prevent migration of soil vapor into dwellings and other occupied structures.

3.0 REMEDIAL ALTERNATIVES ANALYSIS

The goal of the remedy selection process is to select a remedy that is protective of human health and the environment taking into consideration the current, intended, and reasonably anticipated future use of the property. The remedy selection process begins by establishing RAOs for media in which chemical constituents were found in exceedance of applicable SCGs. Remedial alternatives are then developed and evaluated based on the following ten criteria:

- Protection of human health and the environment;
- Compliance with SCGs;
- Short-term effectiveness and impacts;
- Long-term effectiveness and permanence;
- Reduction of toxicity, mobility, or volume of contaminated material;
- Implementability;
- Cost effectiveness;
- Community acceptance;
- Land use; and
- Sustainability.

As required, a Track 1 Unrestricted Use scenario is evaluated for the remedial action. The following is a detailed description of the alternatives analyzed to address impacted media at the Site:

Alternative 1:

- Selection of New York State Department of Environmental Conservation (NYSDEC) 6NYCRR Part 375 Unrestricted Use (Track 1) Soil Cleanup Objectives (SCOs) (UUSCOs).
- Removal of all soil/fill exceeding Track 1 UUSCOs throughout the Site and confirmation that Track 1 UUSCOs have been achieved with post-excavation endpoint sampling. If soil/fill containing analytes at concentrations above UUSCOs is still present at the base of the excavation after removal of all soil required for construction of the new building foundation is complete, additional excavation would be performed to ensure complete removal of soil/fill that does not meet Track 1 UUSCOs.
- No Engineering or Institutional Controls are required for a Track 1 cleanup, but a sub-slab depressurization system (SSDS) beneath the foundation and a soil vapor/moisture barrier along the building slab and along the vertical foundation walls would be installed as part of development to prevent potential exposures from soil vapor in the future; and
- As part of development, placement of a final cover over the entire Site.

Alternative 2:

- Establishment of Site-Specific Track 4 SCOs (SSSCOs).
- Removal of all soil/fill exceeding Track 4 SSSCOs and confirmation that Track 4 SSSCOs have been achieved with post-excavation end point sampling. Based on the results of the RI, it is expected that this alternative would be achieved by excavating for the proposed building foundation depth. As part of development, soil beneath the proposed building foundation will be excavated to a depth of approximately 14 feet below grade at the location of the proposed building, to approximately 12

feet below grade at the western and south-central portions of the Site for basement-level exterior courtyards, and to approximately 20 feet in the south and north-central portions of the Site to accommodate two elevator pits. Approximately 4,300 cubic yards of soil will be excavated and removed from the Site. If soil/fill containing analytes at concentrations above Track 4 SSSCOs is present at the base of the excavation, additional excavation would be performed to meet Track 4 SSSCOs.

- Placement of a composite cover system over the entire Site to prevent exposure to remaining soil/fill;
- Installation of a waterproofing/vapor barrier system beneath the building slab and outside of foundation side walls to prevent potential exposures from soil vapor;
- Installation of a passive sub-slab depressurization system (SSDS);
- Establishment of use restrictions including prohibitions on the use of groundwater from the Site; prohibitions of certain Site uses, such as farming or vegetable gardening, to prevent future exposure pathways; and prohibition of a higher level of land use without OER approval;
- Establishment of an approved SMP to ensure long-term management of these Engineering Controls (ECs) and Institutional Controls (ICs) including the performance of periodic inspections and certification that the controls are performing as they were intended. The SMP will note that the property owner and property owner's successors and assigns must comply with the approved SMP; and
- The Site will continue to be registered with an (E) Designation with the DOB.

3.1 Threshold Criteria

Protection of Public Health and the Environment

This criterion is an evaluation of the remedy's ability to protect public health and the environment, and an assessment of how risks posed through each existing or potential pathway of exposure are eliminated, reduced or controlled through removal, treatment, and implementation of ECs and/or ICs. Protection of public health and the environment must be achieved for all approved remedial actions.

Alternative 1 would be protective of human health and the environment by removing all soil/fill exceeding Track 1 UUSCOs and groundwater protection standards, thus eliminating potential for direct contact with contaminated soil/fill once construction is complete and eliminating the risk of contaminants leaching into groundwater.

Alternative 2 would achieve comparable protections of human health and the environment by excavation and removal of historical fill at the Site to approximately 14 feet below grade at the location of the proposed building, to approximately 12 feet below grade at the western and south-central portions of the Site for basement-level exterior courtyards, and to approximately 20 feet in the south and north-central portions of the Site to accommodate two elevator pits. Alternative 2 would ensure comparable protections by ensuring that remaining soil/fill on-site meets Track 4 SSSCOs as well as by placing ICs and/or ECs at the Site, including a composite cover system. The composite cover system would prevent direct contact with any remaining on-site soil/fill. Implementing ICs, including a SMP, and continuing the (E) Designation on the property would ensure that the composite cover system remains intact and protective of public health.

For both Alternatives, potential exposure to contaminated soils or groundwater during construction would be minimized by implementing a Construction Health and Safety Plan

(CHASP), an approved Soil/Materials Management Plan (SMMP), and Community Air Monitoring Plan (CAMP). Potential contact with contaminated groundwater would be prevented as its use is prohibited by city laws and regulations. Potential future migration of off-site soil vapors into the new building would be prevented by installing a vapor barrier below the building slab and outside foundations walls below grade.

3.2 Balancing Criteria

Compliance with Standards, Criteria, and Guidance (SCGs)

This evaluation criterion assesses the ability of the alternative to achieve applicable standards, criteria, and guidance.

Alternative 1 would achieve compliance with the remedial goals, chemical-specific SCGs, and RAOs for soil through removal of soil to achieve Track 1 UUSCOs and Protection of Groundwater SCOs. Compliance with SCGs for soil vapor would also be achieved by installing a vapor barrier below the new building slab.

Alternative 2 would achieve compliance with the remedial goals, chemical-specific SCGs, and RAOs for soil through removal of soil to meet Track 4 SSSCOs. Compliance with SCGs for soil vapor would also be achieved by installing a vapor barrier and a passive sub-slab depressurization system (SSDS) below the new building slab. A SMP would ensure that these controls remained protective for the long term.

Health and safety measures contained in the CHASP and CAMP will be implemented during Site redevelopment under this RAWP. For both alternatives, focused attention on means and methods employed during the remedial action would ensure that handling and management of contaminated material would be in compliance with applicable SCGs. These measures will protect on-site workers and the surrounding community from exposure to Site-related contaminants. Health and safety measures contained in the CHASP and CAMP will be implemented during Site redevelopment under this RAWP. For both alternatives, focused attention on means and methods employed during the remedial action would ensure that handling and management of contaminated material would be in compliance with applicable SCGs. These measures will protect on-site workers and the surrounding community from exposure to Site-related contaminants.

Short-Term Effectiveness and Impacts

This evaluation criterion assesses the effects of the alternative during the construction and implementation phase until remedial action objectives are met. Under this criterion, alternatives are evaluated with respect to their short term effects during the remedial action on public health and the environment during implementation of the remedial action, including protection of the community, on-site workers, and the environment.

Both Alternative 1 and 2 have similar short-term effectiveness during their implementation, as each requires excavation of historic fill material. Both alternatives would result in short-term dust generation impacts associated with excavation, handling, load out of materials, and truck traffic. Short-term impacts would be higher for Alternative 1 since excavation of greater amounts of historical fill material would take place. However, focused attention to means and methods during a Track 1 removal action, including community air monitoring and appropriate truck routing, would minimize the overall impact of these activities.

An additional short-term adverse impact and risk to the community associated with both remedial alternatives is increased truck traffic. Truck traffic will be routed on the most direct course using major thoroughfares where possible and flag persons will be used to protect

pedestrians at Site entrances and exits. Truck traffic would be greater for Alternative 1 than for Alternative 2 due to the greater amount of soil that would potentially need to be excavated and disposed of off-site.

The potential adverse impact to the community, workers and the environment for both alternatives would be minimized through implementation of control plans including a CHASP, a CAMP, and a SMMP, during all on-site soil disturbance activities, which would minimize the release of contaminants into the environment. Both alternatives provide short-term effectiveness in protecting the surrounding community by decreasing the risk of contact with on-site contaminants. Construction workers operating under appropriate management procedures and a CHASP would provide protection from on-site contaminants by using Personal Protective Equipment (PPE) consistent with the documented risks within the respective work zones.

Long-Term Effectiveness and Permanence

This evaluation criterion addresses the results of a remedial action in terms of its permanence and quantity/nature of waste or residual contamination remaining at the Site after response objectives have been met, such as: permanence of the remedial alternative; magnitude of remaining contamination; adequacy of controls including the suitability of ECs and/or ICs that may be used to manage contaminant residuals that remain at the Site; assessment of containment systems and ICs that are designed to eliminate exposures to contaminants; and long-term reliability of ECs.

Alternative 1 would achieve long-term effectiveness and permanence related to on-site contamination by permanently removing all impacted soil/fill above Track 1 UUSCOs. Removal of on-site contaminant sources will also prevent future groundwater contamination.

Alternative 2 would provide long-term effectiveness by removing most on-site contamination and attaining Track 4 SSSCOs; installing a composite cover system across the Site; maintaining use restrictions; establishing an SMP to ensure long-term management of ICs and ECs; and maintaining registration as an (E) Designated property to memorialize these controls for the long term. The SMP would ensure long term effectiveness of all ECs and ICs by requiring periodic inspection and certification that these controls and restrictions continue to be in place and are functioning as they were intended, assuring that protections designed into the remedy continue to provide the required level of protection.

Reduction of Toxicity, Mobility, or Volume of Contaminated Material

This evaluation criterion assesses the remedial alternatives use of remedial technologies that permanently and significantly reduce toxicity, mobility, or volume of contaminants as their principal element. The following is the hierarchy of source removal and control measures that are to be used to remediate a Site, ranked from most preferable to least preferable: removal and/or treatment, containment, and elimination of exposure and treatment of source at the point of exposure. It is preferred to use treatment or removal to eliminate contaminants at a Site, reduce the total mass of toxic contaminants, cause irreversible reduction in contaminants mobility, or reduce the total volume of contaminated media.

Alternative 1 will permanently eliminate the toxicity, mobility, and volume of contaminants from on-site soil by removing all soil in excess of Track 1 UUSCOs.

Alternative 2 would remove most of the historic fill at the Site, and all remaining on-site soil/fill will meet Track 4 SSSCOs.

Alternative 1 would remove a greater total mass of contaminants from the Site. The removal of soil to approximately 14 feet for the proposed building development in both scenarios would lessen the difference in contaminant mass removal between these two alternatives.

Implementability

This evaluation criterion addresses the technical and administrative feasibility of implementing an alternative and the availability of various services and materials required during its implementation, including technical feasibility of construction and operation, reliability of the selected technology, ease of undertaking remedial action, monitoring considerations, administrative feasibility (e.g. obtaining permits for remedial activities), and availability of services and materials.

The techniques, materials, and equipment to implement both Alternatives 1 and 2 are readily available and have been proven to be effective in remediating the contaminants present on the Site. They use standard equipment and technologies that are well established in the industry. The reliability of each remedy is also high.

Alternative 1 would likely require excavation below the water table, which would be more complex requiring more elaborate sheeting/shoring, a dewatering permit and handling of saturated soil.

There are no known impediments to Alternative 2.

Cost Effectiveness

This evaluation criterion addresses the cost of alternatives, including capital costs (such as construction, equipment, disposal, and engineering costs) and Site management costs (costs incurred after remedial construction is complete) necessary to ensure the continued effectiveness of a remedial action.

Historical fill at the Site was found to extend to a depth of at least 12 feet below grade during the RI, and the new building requires excavation at the location of the proposed building to a depth of 14 feet at the location of the proposed building, to approximately 12 feet below grade at the western and south-central portions of the Site for basement-level exterior courtyards, and to approximately 20 feet in the south and north-central portions of the Site to accommodate two elevator pits. Therefore, the costs associated with Alternative 1 would be higher than for Alternative 2. Additional costs would include installation of additional shoring/underpinning, disposal of additional soil, and import of clean soil for backfill. However, long-term operation and maintenance costs for Alternative 2 are likely higher than Alternative 1 based on implementation of a SMP as part of Alternative 2.

The remedial plan would couple the remedial action with the redevelopment of the Site, lowering total costs. The remedial plan will also consider the selection of the most appropriate disposal facilities to reduce transportation and disposal costs during cleanup and redevelopment of the Site.

Community Acceptance

This evaluation criterion addresses community opinion and support for the remedial action. Observations here will be supplemented by public comment received on the RAWP.

This RAWP will be subject to a public review under the VCP and will provide the opportunity for detailed public input on the remedial alternatives and the selected remedy. This public comment will be considered by OER prior to approval of this plan. The CPP is provided as Appendix B. Observations here will be supplemented by public comment received on the

RAWP. Under both alternatives, the overall goals of the remedial program, to protect public health and the environment and eliminate potential contaminant exposures, have been broadly supported by citizens in NYC communities.

Land Use

This evaluation criterion addresses the proposed use of the property. This evaluation has considered reasonably anticipated future uses of the Site and takes into account: current use and historical and/or recent development patterns; applicable zoning laws and maps; New York State Brownfield Opportunity Areas (BOA) pursuant to section 970-r of the General Municipal Law; applicable land use plans; proximity to real property currently used for residential use, and to commercial, industrial, agricultural, and/or recreational areas; environmental justice impacts, federal or state land use designations; population growth patterns and projections; accessibility to existing infrastructure; proximity of the Site to important cultural and natural resources, potential vulnerability of groundwater to contamination that might emanate from the Site, proximity to flood plains, geography and geology; and current ICs applicable to the Site.

The current, intended, and reasonably anticipated future land use of the Site and its surroundings are compatible with the selected remedy of soil remediation. The proposed future use of the Site includes the demolition of the existing Site building and the construction of a nine-story mixed-use building with community space in the cellar and on the first floor, and approximately 30 affordable housing units above. Excavation is expected to extend approximately 14 feet below grade at the location of the proposed building, to approximately 12 feet below grade at the western and south-central portions of the Site for basement-level exterior courtyards, and to approximately 20 feet in the south and north-central portions of the Site to accommodate two elevator pits. The current zoning designation is M1-1/R7-2 (mixed manufacturing and residential uses). The proposed development would be altered to R-2B (residential use) to accommodate the new construction.

Following remediation, the Site will meet either Track 1 UUSCOs or Track 4 SSSCOs, both of which are protective of public health and the environment for its planned residential use. The Site will be rezoned for the proposed use, which is consistent with recent development patterns. The surrounding area primarily included residential and commercial properties with some institutional and religious uses. The Site is bounded by a vacant building to the north, a residential building to the south, Third Avenue followed by commercial and residential units to the east, and residential apartment buildings to the west. A day care facility is located at 507-509 East 165th Street, approximately 185 feet south of the Site. Figure 3 shows the surrounding land usage. The proposed development would clean up the property and make it safer and create new employment opportunities, living space for affordable and supportive housing, associated societal benefits to the community, and other economic benefits from land revitalization.

Temporary short-term project impacts are being mitigated through Site management controls and truck traffic controls during remediation activities. Following remediation, the Site will meet either Track 1 UUSCOs or Track 4 SSSCOs, both of which are protective of public health and the environmental for its planned use.

The Site is not in close proximity to important cultural resources, including federal or state historic or heritage sites or Native American religious sites, natural resources, waterways, wildlife refuges, wetlands, or critical habitats of endangered or threatened species. The Site is located in an urban area and not in proximity to fish or wildlife and neither alternative would result in any potential exposure pathways of contaminant migration affecting fish or wildlife. The remedial action is also protective of groundwater natural resources. The Site does not lie in a Federal Emergency Management Agency (FEMA)-designated flood plain. Both alternatives are equally protective of natural resources and cultural resources. Improvements in the current

environmental condition of the property achieved by both alternatives considered in this plan are consistent with the city's goals for cleanup of contaminated land.

Sustainability of the Remedial Action

This criterion evaluates the overall sustainability of the remedial action alternatives and the degree to which sustainable means are employed to implement the remedial action including those that take into consideration NYC's sustainability goals defined in PlaNYC: A Greener, Greater New York. Sustainability goals may include: maximizing the recycling and reuse of non-virgin materials; reducing the consumption of virgin and non-renewable resources; minimizing energy consumption and greenhouse gas emissions; improving energy efficiency; and promotion of the use of native vegetation and enhancing biodiversity during landscaping associated with Site development.

While Alternative 2 would potentially result in lower energy usage based on reducing the volume of material transported off-site, both remedial alternatives are comparable with respect to the opportunity to achieve sustainable remedial action. The remedial plan for either alternative would take into consideration the shortest trucking routes during off-site disposal of historic fill and other soils, which would reduce greenhouse gas emissions and conserve energy used to fuel trucks. The NYC Clean Soil Bank program is available for reuse of any clean native soils under either alternative. A complete list of green remedial activities considered as part of the VCP is included in a Sustainability Statement, provided as Appendix C.

4.0 REMEDIAL ACTION

4.1 Summary of Preferred Remedial Action

The preferred remedial action alternative is Alternative 2, the Track 4 remedial action. The preferred remedial action achieves protection of public health and the environment for the intended use of the property. The preferred remedial action will achieve all of the remedial action objectives established for the project and addresses applicable SCGs. The preferred remedial action is effective in both the short-term and long-term and reduces mobility, toxicity and volume of contaminants. The preferred remedial action alternative is cost effective and implementable and uses standards methods that are well established in the industry.

The proposed remedial action will consist of:

1. Preparation of a Community Protection Statement and performance of all required VCP Citizen Participation activities according to an approved CPP.
2. Performance of a Community Air Monitoring Program (CAMP) for particulates and volatile organic carbon compounds (VOCs).
3. Establishment of Track 4 Site-Specific Soil Cleanup Objectives (SSSCOs).
4. Site mobilization involving Site security setup, equipment mobilization, utility mark outs, and marking & staking excavation areas.
5. Perform additional Site characterization sampling of soil to confirm elevated contaminant levels are removed.
6. Completion of a Waste Characterization Study prior to excavation activities. Waste characterization soil samples will be collected at a frequency dictated by disposal facility(s). A Waste Characterization Report documenting sample procedures, location, analytical results shall be submitted to NYCOER prior to start of remedial action.
7. Excavation and removal of soil/fill exceeding Track 4 Site Specific SCOs. Excavation is expected to extend approximately 14 feet below grade at the location of the proposed building, to approximately 12 feet below grade at the western and south-central portions of the Site for basement-level exterior courtyards, and to approximately 20 feet in the south and north-central portions of the Site to accommodate two elevator pits. Approximately 4,300 cubic yards of soil will be excavated and removed from this Site.
8. Screening of excavated soil/fill during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID. Appropriate segregation of excavated media on-site.
9. Management of excavated materials including temporarily stockpiling and segregating in accordance with defined material types and to prevent co-mingling of contaminated material and non-contaminated materials.
10. Removal of any USTs that are encountered during soil/fill removal actions. Registration of tanks and reporting of any petroleum spills and appropriate closure of these petroleum spills in compliance with applicable local, state, and federal laws and regulations.
11. Transportation and off-site disposal of all excess soil/fill material at licensed or permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal, and this plan. Sampling and analysis of material as required by disposal facilities. Appropriate segregation of material on-site.

12. Collection and analysis of endpoint samples to determine the performance of the remedy with respect to attainment of Site Specific SCOs.
13. Demarcation of residual soil/fill at the locations of the two exterior courtyards.
14. Import of materials to be used for backfill and cover in compliance with this plan and in accordance with applicable laws and regulations.
15. Installation of a passive SSDS consisting of a network of horizontal pipes set in the middle of a gas permeable layer immediately beneath the building slab and vapor barrier system. One leg of horizontal piping will consist of slotted schedule 40 4-inch PVC pipe connecting to solid schedule 40 PVC pipe underground and penetrating the slab, 4-inch galvanized steel riser pipe above the slab that travels through the building to the roof. The gas permeable layer will consist of a 6-inch thick layer of gas permeable aggregate. The riser will terminate on the elevator bulkhead roof and connect to a blower and exhaust stack. The exhaust stack will terminate 2 feet above the parapet or 6 feet above the roof, and at least 10 feet from all windows, openings, air intakes, and outdoor occupied spaces. The layout of the SSDS and specification of the system are included in Appendix F.
16. Installation of vapor controls consisting of a vapor barrier beneath the building slab and outside of the sub-grade foundation sidewalls to grade to mitigate soil vapor migration into the building. The vapor barrier system will consist of Grace Preprufe® 300R or an equivalent membrane that meets or exceeds ASTM's E-1745 standard. All welds, seams, and penetrations will be sealed in accordance with the manufacturer's specifications to prevent preferential pathways for vapor migration. The vapor barrier system is an Environmental Control (EC) for the remedial action. The remedial engineer will certify in the Remedial Action Report (RAR) that the vapor barrier system was designed and properly installed to mitigate soil vapor migration into the building.
17. Construction of an engineered composite cover consisting of a six-inch concrete building slab beneath the building foundation and two feet of clean fill (with pervious pavers) in the exterior courtyard areas.
18. Import of materials to be used for backfill and cover in compliance with this plan and in accordance with applicable laws and regulations.
19. Performance of all activities required for the remedial action, including acquisition of required permits and attainment of pretreatment requirements, in compliance with applicable laws and regulations.
20. If required, dewatering in compliance with city, state, and federal laws and regulations. Extracted groundwater will either be containerized for off-site licensed or permitted disposal or will be discharged under a permit from NYCDEP with treatment, if necessary, to meet sewer use requirements prior to discharge to the sewer system.
21. Implementation of stormwater pollution prevention measures in compliance with applicable laws and regulations.
22. Submission of a Remedial Action Report (RAR) that describes the remedial activities, certifies that the remedial requirements have been achieved, defines the Site boundaries, lists any changes from this RAWP, and describes all ECs and ICs to be implemented at the Site.
23. Submission of an approved SMP in the RAR for long-term management of residual contamination, including plans for operation, maintenance, monitoring, inspection and certification of ECs and ICs and reporting at a specified frequency.

24. The property will continue to be registered with an (E) Designation at the DOB. Establishment of ECs and Institutional Controls (ICs) in this RAWP and a requirement that management of these controls must be in compliance with an approved SMP. ICs will include prohibition of the following: (1) vegetable gardening and farming; (2) use of groundwater without treatment rendering it safe for the intended use; (3) disturbance of residual contaminated material unless it is conducted in accordance with the SMP; and (4) higher level of land usage without OER-approval.

4.2 Soil Cleanup Objectives and Soil/ Fill Management

The following Track 4 SSSCOs will be utilized for this project:

| Contaminant | Site-Specific Soil Cleanup Objectives |
|------------------------|--|
| Total SVOCs | 100 ppm |
| Lead | 1,000 ppm |
| Barium | 700 ppm |
| ppm= parts per million | |

Soil and materials management on-site and off-site, including excavation, handling and disposal, will be conducted in accordance with the SMMP, provided as Appendix D. Discrete contaminant sources (such as hotspots) identified during the remedial action will be identified by GPS or surveyed. This information will be provided in the RAR.

Soil/Fill Excavation and Removal

Excavation is expected to extend approximately 14 feet below grade at the location of the proposed building, to approximately 12 feet below grade at the western and south-central portions of the Site for basement-level exterior courtyards, and to approximately 20 feet in the south and north-central portions of the Site to accommodate two elevator pits. The location of planned excavations is shown on Figure 4. The total quantity of soil/fill expected to be excavated and disposed off-site is approximately 4,300 cubic yards. For each disposal facility to be used in the remedial action, a letter from the developer/QEP to the receiving facility requesting approval for disposal and a letter back to the developer/QEP providing approval for disposal will be submitted to OER prior to any transport and disposal of soil at a facility.

Disposal facilities will be reported to OER when they are identified and prior to the start of remedial action.

Endpoint Sampling

Endpoint samples will be analyzed for compounds and elements as described below utilizing the following methodology:

- Volatile organic compounds (VOCs) by EPA Method 8260;
- Semivolatile organic compounds (SVOCs) by EPA Method 8270;
- Target Analyte List (TAL) metals;
- Pesticides by EPA Method 8081; and
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

New York State ELAP certified labs will be used for all endpoint sample analyses. Labs performing endpoint sample analyses will be reported in the RAR. The RAR will provide a

tabular and map summary of all endpoint sample results and will include all data including non-detects and applicable standards and/or guidance values.

Confirmation Endpoint Sampling

Removal actions for development purposes under this plan will be performed in conjunction with confirmation endpoint soil sampling. Five confirmation samples will be collected from the base of the excavation at locations shown on Figure 4. To evaluate attainment of Track 4 SSSCOs, analytes will include those for which SCOs have been developed, including total SVOCs, lead, and barium according to analytical methods described above. If Track 1 Unrestricted Use SCOs are pursued, samples will be analyzed for VOCs, SVOCs, pesticides, PCBs, and metals according to analytical methods described above.

Hotspot Endpoint Sampling

For any hotspots identified during this remedial program, including any hotspots identified during the remedial action and the hotspot for SVOCs identified at SB-8, hotspot removal actions will be performed to ensure that hotspots are fully removed and endpoint samples will be collected at the following frequency:

1. For excavations less than 20 feet in total perimeter, at least one bottom sample and one sidewall sample biased in the direction of surface runoff.
2. For excavations 20 to 300 feet in perimeter:
 - For surface removals, one sample from the top of each sidewall for every 30 linear feet of sidewall and one sample from the excavation bottom for every 900 square feet of bottom area.
 - For subsurface removals, one sample from each sidewall for every 30 linear feet of sidewall and one sample from the excavation bottom for every 900 square feet of bottom area.
3. For sampling of volatile organics, bottom samples should be taken within 24 hours of excavation, and should be taken from the zero to six-inch interval at the excavation floor. Samples taken after 24 hours should be taken at six to twelve inches.
4. For contaminated soil removal, post remediation soil samples for laboratory analysis should be taken immediately after contaminated soil removal. If the excavation is enlarged horizontally, additional soil samples will be taken pursuant to bullets 1-3 above.

Post-remediation endpoint sample locations and depth will be biased towards the areas and depths of highest contamination identified during previous sampling episodes unless field indicators such as field instrument measurements or visual contamination identified during the remedial action indicate that other locations and depths may be more heavily contaminated. In all cases, post-remediation samples should be biased toward locations and depths of the highest expected contamination.

If either LNAPL and/or DNAPL are detected, appropriate samples will be collected for characterization and “finger print analysis” and required regulatory reporting (i.e. spills hotline) will be performed.

Quality Assurance/Quality Control (QA/QC)

The following QA/QC will be conducted during sampling events:

- Sample collection apparatus

- Sampling methods
- Decontamination methods
- Sample containers
- Holding time
- Preservatives including temperature
- Lab blanks
- Detection levels
- Standards for comparative analysis

Import of Soils

Import of soils to the Site will be performed in conformance with the SMMP, included as Appendix D. Imported soil will meet the lower of:

- Track 2 RRSCOs; and
- Groundwater Protection Standards in Part 375-6.8.

The estimated quantity of soil to be imported to the Site for backfill and cover soil is approximately 2,000 cubic yards. Backfill placement locations include the top two feet of fill/topsoil below the pervious pavers at the locations of the two proposed exterior courtyards.

Reuse of On-site Soils

Soil reuse is not planned on this project.

4.3 Engineering Controls (ECs)

ECs will be employed in the remedial action to address residual contamination remaining at the site. The Site has three primary ECs. These are:

1. Composite Cover System
2. Soil Vapor Barrier System
3. Passive Sub-Slab Depressurization System (SSDS)

Composite Cover System

Exposure to residual soil/fill will be prevented by an engineered, composite cover system to be built on the Site. This composite cover system will be comprised of a reinforced concrete slab underlain by 12 inches of clean sub-base material in building areas and pervious pavers in courtyard areas.

Figure 5 shows the typical design for each remedial cover type used on the Site. The composite cover system will be a permanent EC. The system will be inspected and its performance certified at specified intervals as required by this RAWP and the SMP. A SMMP will be included in the SMP and will outline the procedures to be followed in the event that the composite cover system and underlying residual soil/fill is disturbed after the remedial action is complete. Maintenance of this composite cover system will be described in the SMP in the RAR.

Vapor Barrier System

A vapor barrier system will be installed beneath the building slab and outside of sub-grade foundation sidewalls to mitigate soil vapor migration into the building. The vapor barrier system

will consist of a Grace Preprufe® 300R or equivalent membrane that meets or exceeds ASTM's E-1745 standard below the slab throughout the full building area and outside all sub-grade foundation sidewalls. All welds, seams, and penetrations will be properly sealed to prevent preferential pathways for vapor migration. The vapor barrier system is an EC for the remedial action. The remedial engineer will certify in the RAR that the vapor barrier system was designed and properly installed to mitigate soil vapor migration into the building.

The vapor barrier will extend throughout the area occupied by the footprint of the new building and up the foundation sidewalls. A plan view showing the location of the proposed vapor barrier system is provided on Figure 5. Typical design sections and product specification sheets for the vapor barrier are provided as Appendix E. The RAR will include as-built drawings and diagrams, manufacturer documentation, and installation photographs.

The RAR will include a PE-certified letter (on company letterhead) from the primary contractor responsible for installation oversight and field inspections and a copy of the manufacturer's certificate of warranty.

The vapor barrier is a permanent EC and will be inspected and its performance certified at specified intervals as required by this RAWP and the SMP. A SMMP will be included in the SMP and will outline the procedures to be followed in the event that the composite cover system and underlying vapor barrier system is disturbed after the remedial action is complete. Maintenance of these systems will be described in the SMP in the RAR.

Sub-Slab Depressurization System (SSDS)

A passive SSDS consisting of a network of horizontal pipe set in the middle of a gas permeable layer will be installed immediately beneath the building slab and vapor barrier system. One leg of horizontal piping will consist of slotted schedule 40 4-inch PVC pipe connecting to solid schedule 40 PVC pipe underground and penetrating the slab, 4-inch galvanized steel riser pipe above the slab that travels through the building to the roof. The gas permeable layer will consist of a 6-inch thick layer of gas permeable aggregate. The riser will terminate on the elevator bulkhead roof and connect to a blower and exhaust stack. The exhaust stack will terminate 2 feet above the parapet or 6 feet above the roof, and at least 10 feet from all windows, openings, air intakes, and outdoor occupied spaces.

The SSDS is a permanent EC. The system will be inspected and its performance certified at specified intervals as required by this RAWP and the SMP. Maintenance of this SSDS will be described in the SMP in the RAR. The location and layout of the SSDS is shown in Appendix F.

Institutional Controls (ICs)

A series of ICs are required under this Remedial Action to assure permanent protection of public health by elimination of exposure to residual materials. These ICs define the program to operate, maintain, inspect and certify the performance of ECs and ICs on this property. ICs would be implemented in accordance with a SMP included in the final RAR. ICs would be:

- Continued registration of the (E) Designation for the property. This RAWP includes a description of all ECs and ICs and summarizes the requirements of the SMP which will note that the property owner and property owner's successors and assigns must comply with the approved SMP;
- Submittal of a SMP in the RAR for approval by OER that provides procedures for appropriate operation, maintenance, inspection, and certification of ECs and ICs. SMP will require that the property owner and property owner's successors and assigns will submit to OER a periodic written statement that certifies that: (1) controls employed at the Site are

unchanged from the previous certification or that any changes to the controls were approved by OER; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. OER retains the right to enter the Site in order to evaluate the continued maintenance of any controls. This certification shall be submitted at a frequency to be determined by OER in the SMP and will comply with RCNY §43-1407(1)(3).

- Vegetable gardens and farming on the Site are prohibited in contact with residual soil materials;
- Use of groundwater underlying the Site is prohibited without treatment rendering it safe for its intended use;
- All future activities on the Site that will disturb residual material must be conducted pursuant to the soil management provisions in an approved SMP; and
- The Site will be used for residential use and will not be used for a higher level of use without prior approval by OER.

4.4 Site Management Plan (SMP)

Site Management is the last phase of remediation and begins with the approval of the RAR and issuance of the Notice of Completion (NOC) for the Remedial Action. The SMP describes appropriate methods and procedures to ensure implementation of all ECs and ICs that are required by this RAWP. The SMP is submitted as part of the RAR but will be written in a manner that allows its use as an independent document. Site Management continues until terminated in writing by OER. The property owner is responsible to ensure that all Site Management responsibilities defined in the SMP are implemented.

The SMP will provide a detailed description of the procedures required to manage residual soil/fill left in place following completion of the remedial action in accordance with the Voluntary Cleanup Agreement with OER. This includes a plan for: (1) implementation of ECs and ICs; (2) operation and maintenance of ECs; (3) inspection and certification of ICs and ECs.

Site management activities and EC/IC certification will be scheduled by OER on a periodic basis to be established in the RAR and the SMP and will be subject to review and modification by OER. The SMP will be based on a calendar year and certification reports will be due for submission to OER by July 30 of the year following the reporting period.

4.5 Qualitative Human Health Exposure Assessment (QHHEA)

The objective of the QHHEA is to identify potential receptors and pathways for human exposure to the contaminants of concern (COC) that are present at, or migrating from, the Site. The identification of exposure pathways describes the route that the COC takes to travel from the source to the receptor. An identified pathway indicates that the potential for exposure exists; it does not imply that exposures actually occur.

Data and information reported in the Remedial Investigation Report (RIR) are sufficient to complete a QHHEA for this project. As part of the VCP process, a QHHEA was performed to determine whether the Site poses an existing or future health hazard to the Site's exposed or potentially exposed population. The sampling data from the RI were evaluated to determine whether there is any health risk under current and future conditions by characterizing the exposure setting, identifying exposure pathways, and evaluating contaminant fate and transport. This QHHEA was prepared in accordance with Appendix 3B and Section 3.3 (b) 8 of the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation.

Known and Potential Contaminant Sources

Based on the results of the RIR, the contaminants of concern are:

- Soil: SVOCs and heavy metals above UUSCOs and RRSCO
- Groundwater: Metals above GQS
- Soil Vapor: TCE and PCE above AGVs, and VOCs associated with petroleum and solvents

Nature, Extent, Fate, and Transport of Contaminants

- Soil: SVOCs and metals were identified across the Site in shallow and deep soil samples above UUSCOs and RRSCO. The metal exceedances are likely attributable to historic fill material, which was observed in each of the soil borings advanced during the Remedial Investigation
- Groundwater: Metals in dissolved groundwater samples were identified across the Site above GQS. These exceedances are likely attributable to sediment entrained within samples, which was noted during sampling.
- Soil Vapor: PCE and TCE was detected above AGVs at the soil vapor sample beneath the existing Site building slab on Lot 33. A Site source was not identified and these exceedances may be attributable to an off-site source.

Receptor Populations

On-site Receptors: The Site is currently developed with a three-story vacant building and an undeveloped dirt and asphalt-paved lot. Access to the Site is restricted by an 8 foot high, chained and locked, perimeter fence. On-site receptors are limited to trespassers, Site representatives, and visitors granted access to the Site. During construction, potential on-site receptors include construction workers, Site representatives, and visitors. Under proposed future conditions, potential on-site receptors include adult and child building residents, workers and visitors.

Off-site Receptors: Potential off-site receptors within a 500 foot radius of the Site include adult and child residents; commercial and construction workers; pedestrians; and trespassers based on the following land uses within 500 feet of the Site:

1. Commercial Businesses – existing and future
2. Residential Buildings – existing and future
3. Building Construction/ Renovation – existing and future
4. Pedestrians, Trespassers, Cyclists – existing and future
5. Schools – existing and future

Potential Routes of Exposure

Three potential primary routes exist by which chemicals can enter the body: ingestion, inhalation, and dermal absorption. Exposure can occur based on the following potential media:

- Ingestion of groundwater or fill/ soil;
- Inhalation of vapors or particulates; and
- Dermal absorption of groundwater or fill/ soil.

Potential Exposure Points

Current Conditions: The majority of the Site is currently capped with the on-site building foundation and asphalt. A small area on the western portions of the Site is uncapped and undeveloped. Although the Site is fenced and locked, there is a potential exposure pathway from surface soil/fill to trespassers. Groundwater is not exposed at the Site. The Site is served by the public water supply and groundwater is not used at the site for potable supply and there is no potential for exposure. Although the eastern portion of Lot 33 at the Site is currently developed, the building is vacant.

Construction/ Remediation Conditions: During the remedial action, on-site workers will come into direct contact with surface and subsurface soils as a result of on-site construction and excavation activities. On-site construction workers potentially could ingest, inhale, or have dermal contact with exposed impacted soil and fill. Similarly, off-site receptors could be exposed to dust and vapors from on-site activities. Due to the depth of groundwater, direct contact with groundwater is possible. During construction, on-site and off-site exposures to contaminated dust from on-site will be addressed through the SMMP, dust controls, and through the implementation of the CAMP and a CHASP.

Proposed Future Conditions: Under future remediated conditions, all soils in excess of Track 4 SCOs will be removed. The Site will be fully capped, preventing potential direct exposure to soil and groundwater remaining in place, and ECs (vapor barrier/SSDS) will prevent any potential exposure due to inhalation by preventing soil vapor intrusion. The Site is served by the public water supply, and groundwater is not used at the Site. There are no plausible off-site pathways for oral, inhalation, or dermal exposure to contaminants derived from the Site.

Overall Human Health Exposure Assessment

There are potential complete exposure pathways for the current Site condition. There are potential complete exposure pathways that require mitigation during implementation of the remedy. There are no complete exposure pathways under future conditions after the Site is developed. This assessment takes into consideration the reasonably anticipated use of the Site, which includes a residential structure, Site-wide surface cover, and a subsurface vapor barrier and SSDS for the building. Under current conditions, on-site exposure pathways exist for those with access to the Site and trespassers. During remedial construction, on-site and off-site exposures to contaminated dust from historic fill material will be addressed through dust controls, and through the implementation of the CAMP, the SMMP, and the CHASP. Potential post-construction use of groundwater is not considered an option because groundwater in this area of NYC is not used as a potable water source. There are no surface waters in close proximity to the Site that could be impacted or threatened.

5.0 REMEDIAL ACTION MANAGEMENT

5.1 Project Organization and Oversight

Principal personnel who will participate in the remedial action include Marcus Simons and Stephen Malinowski, QEP. The Professional Engineer (PE) for this project is Michelle Lapin, P.E.

5.2 Site Security

The Site will be completely closed from public access by using secured construction fencing. No unauthorized personnel will be able to access the Site. During off hours, the active portions of the Site will be completely enclosed within a locked gate. It is not anticipated that traffic will be disrupted beyond normal contractor vehicle traffic going to and from the Site during construction. Any sidewalk closures that are required during the course of construction/remediation activities will be conducted in accordance with DOT permits.

5.3 Work Hours

The hours for operation of cleanup will comply with the DOB construction code requirements or according to specific variances issued by that agency. The hours of operation will be conveyed to OER during the pre-construction meeting.

5.4 Construction Health and Safety Plan

The Health and Safety Plan is included as Appendix G. The Site Safety Officer (SSO) will be Amy Jordan. Remedial work performed under this RAWP will be in full compliance with applicable health and safety laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements. Confined space entry, if any, will comply with OSHA requirements and industry standards and will address potential risks. The parties performing the remedial construction work will ensure that performance of work is in compliance with the HASP and applicable laws and regulations. The HASP pertains to remedial and invasive work performed at the Site until the issuance of the NOC.

All field personnel involved in remedial activities will participate in training required under 29 CFR 1910.120, such as 40-hour hazardous waste operator training and annual 8-hour refresher training. The SSO will be responsible for maintaining workers training records.

Personnel entering any exclusion zone will be trained in the provisions of the HASP and will comply with all requirements of 29 CFR 1910.120. Site-specific training will be provided to field personnel. Additional safety training may be added depending on the tasks performed. Emergency telephone numbers will be posted at the Site before any remedial work begins. A safety meeting will be conducted before each shift begins. Topics to be discussed include task hazards and protective measures (physical, chemical, and environmental); emergency procedures; PPE levels; and other relevant safety topics. Meetings will be documented in a log book or specific form.

An emergency contact sheet with names and phone numbers is included in the CHASP. That document will define the specific project contacts for use in case of emergency.

5.5 Community Air Monitoring Plan (CAMP)

Real-time air monitoring for VOCs and particulate levels at the perimeter of the exclusion zone or work area will be performed. Continuous monitoring will be performed for all ground intrusive activities and during the handling of contaminated or potentially contaminated media.

Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pit excavation or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be performed during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. Periodic monitoring during sample collection, for instance, will consist of taking a reading upon arrival at a sample location and monitoring while opening a well cap or overturning soil, during well bailing/purging, and prior to leaving a sample location. Depending upon the proximity of potentially exposed individuals, continuous monitoring may be performed during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence. Exceedances of action levels observed during performance of the CAMP will be reported to the OER project manager and included in the daily report.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) will be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis during invasive work. Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work will be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment will be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment will be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 ppm above background for the 15-minute average, work activities will be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities will resume with continued monitoring.
- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities will resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.
- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities will be shutdown.

All 15-minute readings must be recorded and be available for OER personnel to review. Instantaneous readings, if any, used for decision purposes will also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations will be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring will be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM₁₀) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment will be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

- If the downwind PM₁₀ particulate level is 100 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work will continue with dust suppression techniques provided that downwind PM₁₀ particulate levels do not exceed 150 $\mu\text{g}/\text{m}^3$ above the upwind level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM₁₀ particulate levels are greater than 150 $\mu\text{g}/\text{m}^3$ above the upwind level, work will be stopped and a re-evaluation of activities initiated. Work will resume provided that dust suppression measures and other controls are successful in reducing the downwind PM₁₀ particulate concentration to within 150 $\mu\text{g}/\text{m}^3$ of the upwind level and in preventing visible dust migration.

All readings will be recorded and be available for OER personnel to review.

5.6 Agency Approvals

All permits or government approvals required for remedial construction have been or will be obtained prior to the start of remedial construction. Approval of this RAWP by OER does not constitute satisfaction of these requirements and will not be a substitute for any required permit.

5.7 Site Preparation

Pre-Construction Meeting

OER will be invited to attend the pre-construction meeting at the Site with all parties involved in the remedial process prior to the start of remedial construction activities.

Mobilization

Mobilization will be conducted as necessary for each phase of work at the Site. Mobilization includes field personnel orientation, equipment mobilization (including securing all sampling equipment needed for the field investigation), marking/staking sampling locations and utility mark-outs. Each field team member will attend an orientation meeting to become familiar with the general operation of the Site, health and safety requirements, and field procedures.

Utility Marker Layouts, Easement Layouts

The presence of utilities and easements on the Site will be fully investigated prior to the performance of invasive work such as excavation or drilling under this plan by using, at a minimum, the One-Call System (811). Underground utilities may pose an electrocution, explosion, or other hazard during excavation or drilling activities. All invasive activities will be performed in compliance with applicable laws and regulations including NYC Building Code to assure safety. Utility companies and other responsible authorities will be contacted to locate and mark the locations, and a copy of the mark out ticket will be retained by the contractor prior to the start of drilling, excavation or other invasive subsurface operations. Overhead utilities may also be present within the anticipated work zones. Electrical hazards associated with drilling in the vicinity of overhead utilities will be prevented by maintaining a safe distance between overhead power lines and drill rig masts.

Proper safety and protective measures pertaining to utilities and easements, and compliance with all laws and regulations will be employed during invasive and other work contemplated under this RAWP. The integrity and safety of on-site and off-site structures will be maintained during all invasive, excavation, or other remedial activity performed under the RAWP.

Dewatering

Dewatering may be required in order to excavate the soil/ fill material below the saturated zone or water table (expected to be approximately 15 to 17 feet below grade). Dewatering for this Site would require a pumping system, settling tanks, potentially a treatment system, and the appropriate NYCDEP permit to discharge to the sewer system.

Equipment and Material Staging

Equipment and materials will be stored and staged in a manner that complies with applicable laws and regulations.

Stabilized Construction Entrance

Steps will be taken to ensure that trucks departing the Site will not track soil, fill, or debris off-site. Such actions may include use of cleaned asphalt or concrete pads or use of stone or other aggregate-based egress paths between the truck inspection station and the property exit. Measures will be taken to ensure that adjacent roadways will be kept clean of project related soils, fill, and debris.

Truck Inspection Station

An outbound-truck inspection station will be set up close to the Site exit. Before exiting the Site, trucks will be required to stop at the truck inspection station and will be examined for evidence of contaminated soil on the undercarriage, body, and wheels. Soil and debris will be removed. Brooms, shovels, and/or clean water will be utilized for the removal of soil from vehicles and equipment, as necessary.

Extreme Storm Preparedness and Response Contingency Plan

Damage from flooding or storm surge can include dislocation of soil and stockpiled materials, dislocation of Site structures and construction materials and equipment, and dislocation of support of excavation structures. Damage from wind during an extreme storm event can create unsafe or unstable structures, damage safety structures, and cause downed power lines creating dangerous Site conditions and loss of power. In the event of emergency conditions caused by an extreme storm event, the enrollee will undertake the following steps for Site preparedness prior to the event and response after the event.

Storm Preparedness

Preparations in advance of an extreme storm event will include the following: containerized hazardous materials and fuels will be removed from the property; loose materials will be secured to prevent dislocation and blowing by wind or water; heavy equipment such as excavators and generators will be removed from excavated areas, trenches and depressions on the property to high ground or removed from the property; an inventory of the property with photographs will be performed to establish conditions for the Site and equipment prior to the event; stockpile covers for soil and fill will be secured by adding weights such as sandbags for added security and worn or ripped stockpile covers will be replaced with competent covers; stockpiled hazardous wastes will be removed from the property; stormwater management systems will be inspected and fortified, including, as necessary: clean and reposition silt fences, hay bales; clean storm sewer filters and traps; and secure and protect pumps and hosing.

Storm Response

At the conclusion of an extreme storm event, as soon as it is safe to access the property, a complete inspection of the property will be performed. A Site inspection report will be submitted

to OER at the completion of Site inspection and after the Site security is assessed. Site conditions will be compared to the inventory of Site conditions and material performed prior to the storm event and significant differences will be noted. Damage from storm conditions that result in acute public safety threats, such as downed power lines or imminent collapse of buildings, structures or equipment will be reported to public safety authorities via appropriate means such as calling 911. Petroleum spills will be reported to NYSDEC within 2 hours of identification and consistent with State regulations. Emergency and spill conditions will also be reported to OER. Public safety structures, such as construction security fences will be repaired promptly to eliminate public safety threats. Debris will be collected and removed. Dewatering will be performed in compliance with existing laws and regulations and consistent with emergency notifications, if any, from proper authorities. Eroded areas of soil including unsafe slopes will be stabilized and fortified. Dislocated materials will be collected and appropriately managed. Support of excavation structure will be inspected and fortified as necessary. Impacted stockpiles will be contained and damaged stockpile covers will be replaced. Stormwater control systems and structures will be inspected and maintained as necessary. If soil or fill materials are discharged off-site to adjacent properties, property owners and OER will be notified and corrective measure plan designed to remove and clean dislocated material will be submitted to OER and implemented following approval by OER and granting of Site access by the property owner. Impacted off-site areas may require characterization based on Site conditions, at the discretion of OER. If on-site petroleum spills are identified, a QEP will determine the nature and extent of the spill and report to NYSDEC's spill hotline at 800-457-7362 within statutory defined timelines. If the source of the spill is ongoing and can be identified, it should be stopped if this can be done safely. Potential hazards will be addressed immediately, consistent with guidance issued by NYSDEC.

Storm Response Reporting

A Site inspection report will be submitted to OER at the completion of the Site inspection. An inspection report established by OER is available on OER's website (www.nyc.gov/oer) and will be used for this purpose. Site conditions will be compared to the inventory of site conditions and material performed prior to the storm event and significant differences will be noted. The Site inspection report will be sent to the OER project manager and will include the Site name, address, tax block and lot, Site primary and alternate contact name and phone number. Damage and soil release assessment will include: whether the project had stockpiles; whether stockpiles were damaged; photographs of damage and notice of plan for repair; report of whether soil from the Site was dislocated and whether any of the soil left the Site; estimates of the volume of soil that left the Site, nature of impact, and photographs; description of erosion damage; description of equipment damage; description of damage to the remedial program or the construction program, such as damage to the support of excavation; presence of on-site or off-site exposure pathways caused by the storm; presence of petroleum or other spills and status of spill reporting to NYSDEC; description of corrective actions; and schedule for corrective actions. This report should be completed and submitted to OER project manager with photographs within 24 hours of the time of safe entry to the property after the storm event.

5.8 Traffic Control

Drivers of trucks leaving the Site with soil/fill will be instructed to proceed without stopping in the vicinity of the Site to prevent neighborhood impacts. The planned route on local roads for trucks leaving the Site heading east is as follows:

- Head north on Third Avenue.
- Turn right onto Cross Bronx Expressway Service Road.

- Take the ramp on the left to merge onto Interstate 95/ Cross Bronx Expressway.

The planned route on local roads for trucks leaving the Site heading west is as follows:

- Head north on Third Avenue.
- Turn left onto 175th Street.
- Turn left onto Webster Avenue.
- Turn right onto Ittner Place
- Take the ramp on the left to merge onto US 1 S/ George Washington Bridge.

5.9 Demobilization

Demobilization will include:

- As necessary, restoration of temporary access areas and areas that may have been disturbed to accommodate support areas (e.g., staging areas, decontamination areas, storage areas, temporary water management areas, and access area);
- Removal of sediment from erosion control measures and truck wash and disposal of materials in accordance with applicable laws and regulations;
- Equipment decontamination; and
- General refuse disposal.

Equipment will be decontaminated and demobilized at the completion of all field activities. Investigation equipment and large equipment (e.g., soil excavators) will be washed at the truck inspection station as necessary. In addition, all investigation and remediation derived waste will be appropriately disposed.

5.10 Reporting and Record Keeping

Daily Reports

Daily reports providing a general summary of activities for each day of active remedial work will be emailed to the OER project manager by the end of the following business day. Those reports will include:

- Project number and statement of the activities and an update of progress made and locations of excavation and other remedial work performed;
- Quantities of material imported and exported from the Site;
- Status of on-site soil/fill stockpiles;
- A summary of all citizen complaints, with relevant details (basis of complaint; actions taken; etc.);
- A summary of CAMP results noting all excursions. CAMP data may be reported; and
- Photographs of notable Site conditions and activities.

The frequency of the reporting period may be revised in consultation with OER project manager based on planned project tasks. Daily email reports are not intended to be the primary mode of communication for notification to OER of emergencies (accidents, spills), requests for changes to the RAWP or other sensitive or time critical information. However, such information will be included in the daily reports. Emergency conditions and changes to the RAWP will be

communicated directly to the OER project manager by personal communication. Daily reports will be included as an Appendix in the RAR.

An alpha-numeric Site map will be used to identify locations described in reports submitted to OER and is shown on Figure 4.

Record Keeping and Photographic Documentation

Site record keeping for all remedial work will be performed. These records will be maintained on-site during the project and will be available for inspection by OER staff. Representative photographs will be taken of the Site prior to any remedial activities and during major remedial activities to illustrate remedial program elements and contaminant source areas. Photographs will be submitted at the completion of the project in the RAR in digital format (i.e. jpeg files).

5.11 Complaint Management

All complaints from citizens will be promptly reported to OER. Complaints will be addressed and outcomes will also be reported to OER in daily reports. Notices to OER will include the nature of the complaint, the party providing the complaint, and the actions taken to resolve any problems.

5.12 Deviations From The Remedial Action Work Plan (RAWP)

All changes to the RAWP will be reported to, and approved by, the OER project manager and will be documented in daily reports and reported in the RAR. The process to be followed if there are any deviations from the RAWP will include a request for approval for the change from OER noting the following:

- Reasons for deviating from the approved RAWP;
- Effect of the deviations on overall remedy; and
- Determination with basis that the remedial action with the deviation(s) is protective of public health and the environment.

6.0 REMEDIAL ACTION REPORT (RAR)

A RAR will be submitted to OER following implementation of the remedial action defined in this RAWP. The RAR will document that the remedial work required under this RAWP has been completed and has been performed in compliance with this plan. The RAR will include:

- Information required by this RAWP;
- Text description with thorough detail of all ECs and ICs;
- As-built drawings for all constructed remedial elements;
- Manifests for all soil or fill disposal;
- Photographic documentation of remedial work performed under this remedy;
- SMP;
- Description of any changes in the remedial action from the elements provided in this RAWP and associated design documents;
- Tabular summary of all endpoint sampling results (including all soil test results from the RI for soil that will remain on-site) and all soil/fill waste characterization results, QA/QC results for endpoint sampling, and other sampling and chemical analysis performed as part of the remedial action;
- Test results or other evidence demonstrating that remedial systems are functioning properly;
- Account of the source area locations and characteristics of all soil or fill material removed from the Site including a map showing the location(s) of these excavations and hotspots, tanks, or other contaminant source areas;
- Full accounting of the disposal destination of all contaminated material removed from the Site. Documentation associated with disposal of all material will include transportation and disposal records, and letters approving receipt of the material;
- Account of the origin and required chemical quality testing for material imported onto the Site;
- Continue registration of the property with an (E) Designation by the NYC Department of Buildings;
- The RAWP and RIR will be included as appendices to the RAR; and
- Reports and supporting material will be submitted in digital form and final PDFs will include bookmarks for each appendix.

Remedial Action Report Certification

I, Michelle Lapin, am currently a registered professional engineer licensed by the State of New York. I performed professional engineering services and had primary direct responsibility for implementation of the remedial program for the 3363 and 3365 Third Avenue Site, Site number 15EHAZ318X. I certify to the following:

- I have reviewed this document, to which my signature and seal are affixed.
- Engineering Controls implemented during this remedial action were designed by me or a person under my direct supervision and achieve the goals established in the Remedial Action Work Plan for this Site.
- The Engineering Controls constructed during this remedial action were professionally observed by me or by a person under my direct supervision and (1) are consistent with the Engineering Control design established in the Remedial action Work Plan and (2) are accurately reflected in the text and drawings for as-built design reported in this Remedial Action Report.
- The OER-approved Remedial Action Work Plan dated [date] and Stipulations in a letter dated [date] were implemented and that all requirements in those documents have been substantively complied with. I certify that contaminated soil, fill, liquids or other material from the property were taken to facilities licensed to accept this material in full compliance with applicable laws and regulations.

Name

PE Stamp

PE License Number

Signature

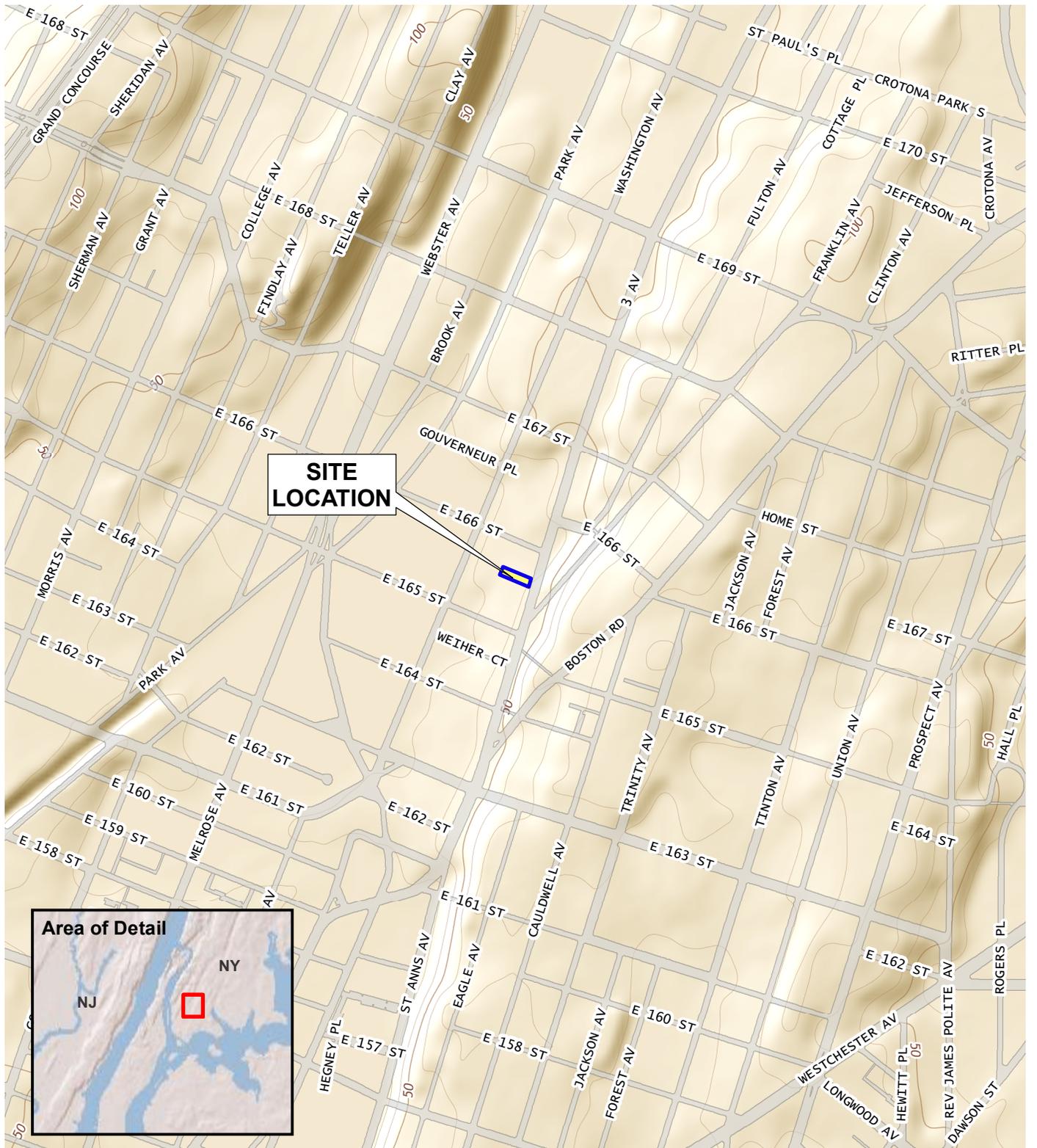
Date

7.0 SCHEDULE

The table below presents a schedule for the proposed remedial action and reporting. If the schedule for remediation and development activities changes, it will be updated and submitted to OER. Currently, a two month remediation period is anticipated.

| Schedule Milestone | Weeks from Remedial Action Start | Duration (weeks) |
|---|---|-------------------------|
| OER Approval of RAWP | 0 | 1 |
| Fact Sheet 2 announcing start of remedy | 0 | 1 |
| Mobilization | 19 | 1 |
| Building Demolition | 20 | 1 |
| Excavation | 21 | 8 |
| Demobilization | 24 | 1 |
| Submit Remedial Action Report | 40 | 10 |

FIGURES



SOURCE
 USGS 7.5 Minute Topographic Map
 Central Park Quad 2011



3363 and 3365 Third Avenue
 Bronx, New York

SITE LOCATION



Environmental Consultants
 440 Park Avenue South, New York, NY 10016

DATE
11/2/2015

PROJECT No.
12105

FIGURE
1



Lot 33

Lot 34

Existing Building

Map Source:
NYC DCP (NYC Dept. of City Planning 2015) GIS database

LEGEND:

-  PROJECT SITE BOUNDARY
-  LOT LINE
-  BUILDING LINE



3363 and 3365 Third Avenue
Bronx, New York

SITE PLAN



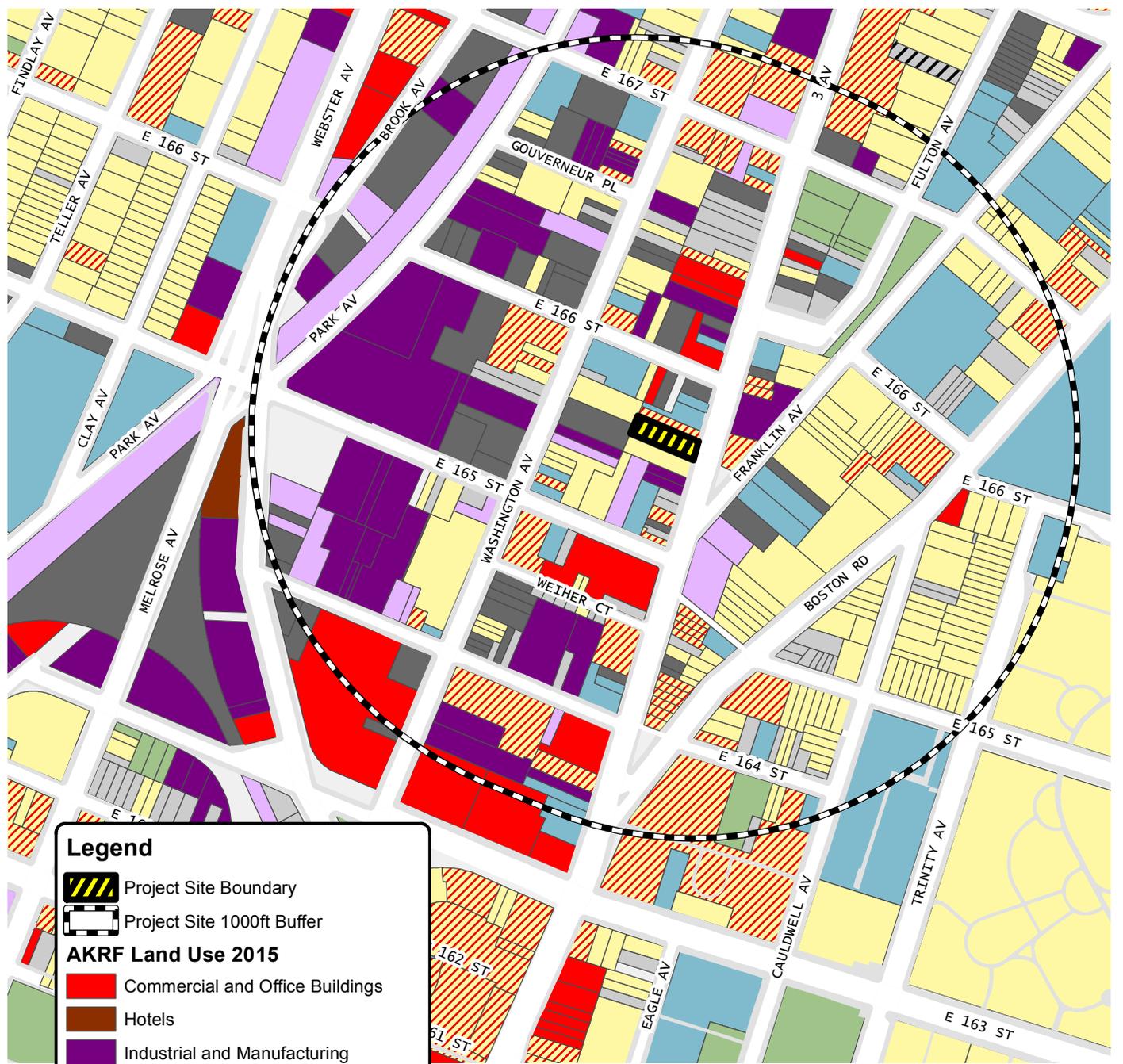
Environmental Consultants
440 Park Avenue South, New York, NY 10016

DATE
11/12/2015

PROJECT No.
12105

SCALE
as shown

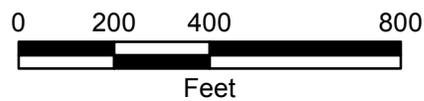
FIGURE
2



Source: NYCDCP (NYC Dept. of City Planning) GIS database

Legend

-  Project Site Boundary
-  Project Site 1000ft Buffer
- AKRF Land Use 2015**
-  Commercial and Office Buildings
-  Hotels
-  Industrial and Manufacturing
-  Open Space and Outdoor Recreation
-  Parking Facilities
-  Public Facilities and Institutions
-  Residential
-  Residential with Commercial Below
-  Transportation and Utility
-  Vacant Land
-  Vacant Building
-  Under Construction



3363 and 3365 Third Avenue
Bronx, New York

SURROUNDING LAND USE



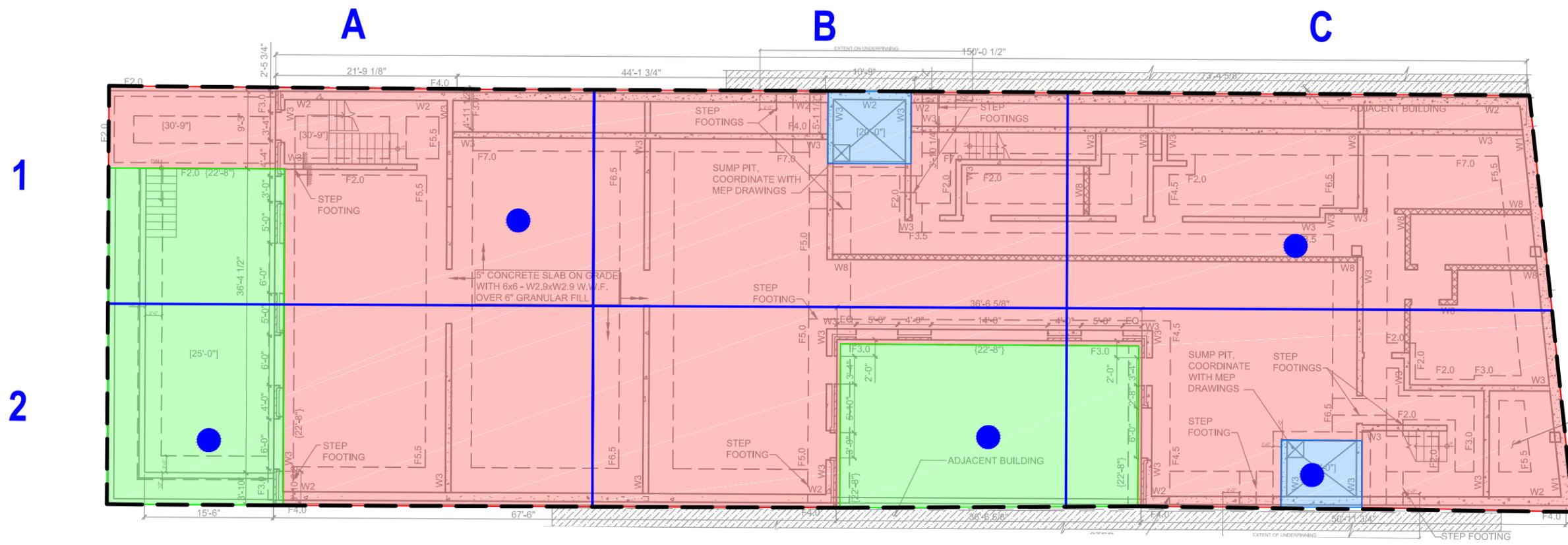
Environmental Consultants
440 Park Avenue South, New York, NY 10016

DATE
11/2/2015

PROJECT No.
12105

FIGURE
3

© 2015 AKRF, Inc. Environmental Consultants W:\Projects\12105 - BRONX PRO 3363 THIRD AVENUE\Technical\Hazmat\Figures\RAM\12105 Fig 3\rd ave excav_sitcover_grid_endpnts_wasteclass.dwg

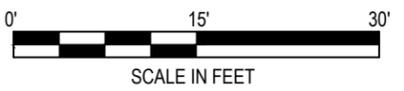


LEGEND:

-  EXTENT OF EXCAVATION
-  APPROXIMATE EXTENT OF EXCAVATION FOR EXTERIOR COURTYARDS (PERVIOUS PAVERS) (12' BELOW GRADE)
-  APPROXIMATE EXTENT OF EXCAVATION FOR BUILDING (14' BELOW GRADE)
-  APPROXIMATE EXTENT OF EXCAVATION FOR ELEVATOR PITS (20' BELOW GRADE)
-  PROPOSED ENPOINTS SAMPLE LOCATIONS
-  ALPHANUMERIC GRID

SOURCE:
 Based on Drawing S-100, Cellar/Foundation and First Floor Framing Plan for 3365 Third Ave Bronx, NY 10456
 Prepared by DE NARDI ENGINEERING, LLC
 239 CENTRAL AVE, WHITE PLAINS, NY 10606
 Oct 2015

Note:
 1. Elevations are in NAVD 88.



Environmental Consultants
 440 Park Avenue South, New York, NY 10016

3363 and 3365 Third Avenue
 Bronx, New York

PROPOSED EXCAVATION AREAS

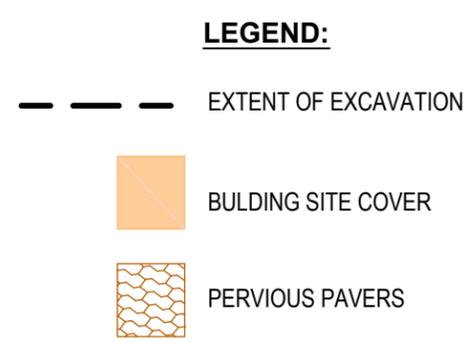
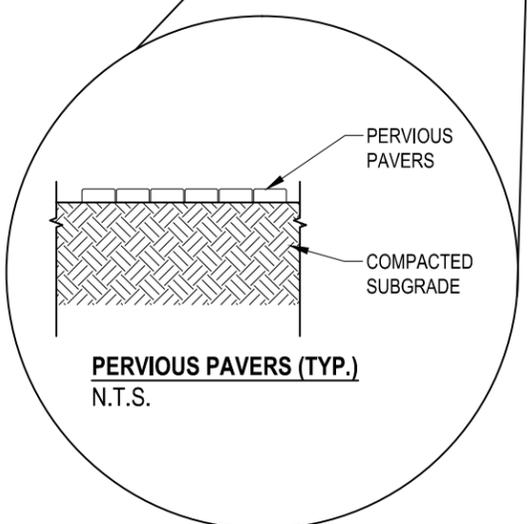
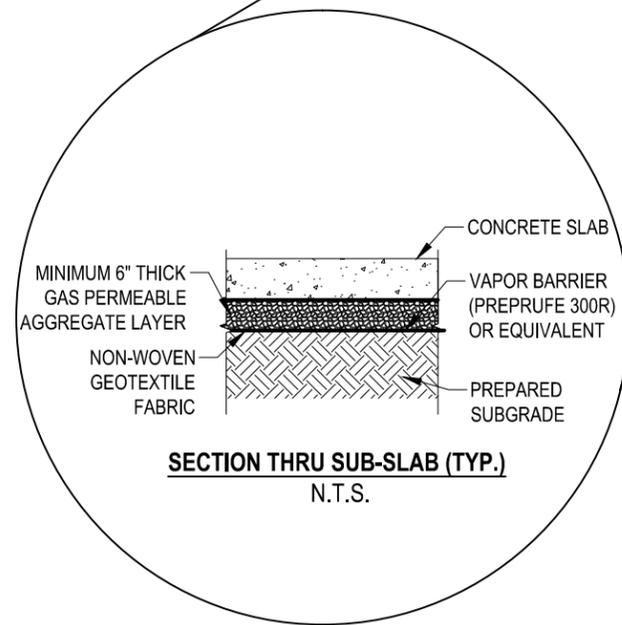
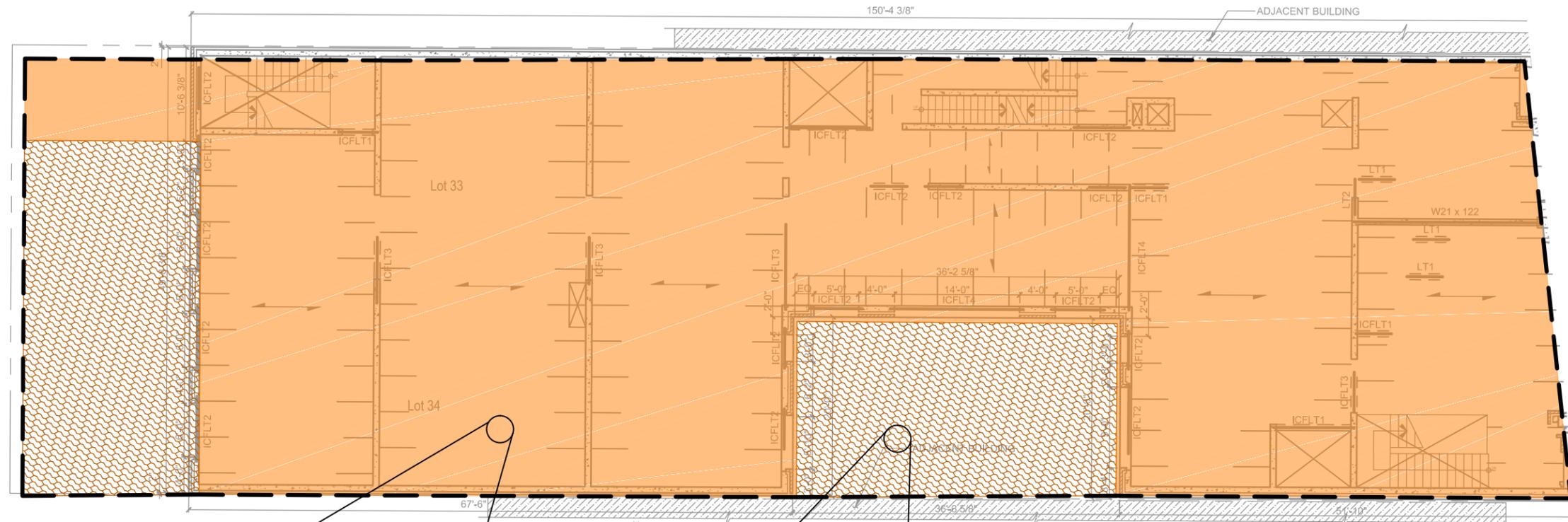
DATE
 1/22/2016

PROJECT NO.
 12105

SCALE
 as shown

FIGURE
 4

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SOURCE:
 Based on Drawing S-100, Cellar/Foundation and First Floor Framing Plan
 for 3365 Third Ave Bronx, NY 10456
 Prepared by DE NARDIS ENGINEERING, LLC
 239 CENTRAL AVE, WHITE PLAINS, NY 10606
 Oct 2015

Note:
 1. Elevations are in NAVD 88.

APPENDIX A
PROPOSED DEVELOPMENT PLANS

3365 THIRD AVE

3365 Third Ave Bronx, NY 10456

PROJECT NO. 1507

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Architect
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ACCESSIBILITY CONSULTANT
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BPP
SULLIVAN GROUP DESIGN, LLC
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 New York, New York 10001
 T: 212-352-8636



DOB - 10/19/15

LIST OF DRAWINGS

| GENERAL | |
|-----------------|--|
| G-000 | COVER SHEET |
| G-001 | SITE PLAN |
| G-004 | GENERAL NOTES |
| G-005 | ACCESSIBILITY NOTES I |
| G-006 | ACCESSIBILITY NOTES II |
| G-007 | BUILDING ANALYSIS I |
| G-008 | BUILDING ANALYSIS II |
| G-009 | BUILDING ANALYSIS III |
| G-010 | BUILDING ANALYSIS IV |
| G-011 | BUILDING ANALYSIS V |
| | |
| ZONING | |
| Z-001 | ZONING ANALYSIS I |
| Z-002 | ZONING ANALYSIS II |
| Z-003 | ZONING ANALYSIS III |
| | |
| SURVEYS/MAPPING | |
| V-001 | SURVEY & SANBORN MAP (FOR REFERENCE ONLY) |
| | |
| GEOTECH | |
| B-100 | BORING |
| | |
| STRUCTURAL | |
| S-100 | CELLAR FOUNDATION & FIRST FLOOR FRAMING PLAN |
| S-200 | 2ND & 3RD FLOOR FRAMING PLANS |
| S-201 | 4TH & 7TH FLOOR FRAMING PLANS |
| S-202 | 8TH FLOOR FRAMING PLAN |
| S-300 | ROOF & BULKHEAD FRAMING PLAN |
| S-400 | GENERAL STRUCTURAL NOTES |
| S-401 | SCHEDULES & TYP. DTL. |
| S-402 | TYP. DETAILS |
| S-403 | TYP. DETAILS |
| S-404 | TYP. DETAILS |
| S-405 | TYP. DETAILS |
| S-500 | FOUNDATION DETAILS |
| S-501 | FOUNDATION DETAILS |
| S-502 | FOUNDATION DETAILS |
| S-600 | FRAMING DETAILS |
| S-601 | FRAMING DETAILS |
| S-602 | FRAMING DETAILS |

| S-603 | FRAMING DETAILS |
|---------------|--|
| S-604 | FRAMING DETAILS |
| | |
| ARCHITECTURAL | |
| A-001 | SYMBOLS AND ABBREVIATIONS |
| | |
| A-100 | CELLAR PLAN & FIRST FLOOR PLAN |
| A-101 | SECOND FLOOR & TYPICAL FLOOR (3-6) |
| A-102 | SEVENTH & EIGHTH FLOOR PLAN |
| A-103 | ROOF & BULKHEAD FLOOR PLAN |
| A-110 | RCP - CELLAR & FIRST FLOOR |
| A-111 | RCP - SECOND & TYP. FLOOR (4TH, UFAS) |
| A-112 | RCP - 7TH, 8TH, ROOF & LIGHTING SCHEDULE |
| A-120 | ENLARGED CELLAR PLAN I |
| A-121 | ENLARGED CELLAR PLAN II |
| A-122 | ENLARGED FIRST FLOOR I |
| A-123 | ENLARGED FIRST FLOOR II |
| A-124 | ENLARGED SECOND FLOOR I |
| A-125 | ENLARGED SECOND FLOOR II |
| A-126 | ENLARGED TYPICAL PLAN I |
| A-127 | ENLARGED TYPICAL PLAN II |
| A-128 | ENLARGED SEVENTH PLAN I |
| A-129 | ENLARGED EIGHTH PLAN I |
| A-130 | ENLARGED ROOF PLAN & UFAS UNIT A AND C |
| | |
| A-200 | BUILDING ELEVATIONS |
| A-201 | BUILDING ELEVATIONS |
| A-202 | BUILDING ELEVATIONS |
| A-203 | BUILDING ELEVATIONS |
| A-210 | BUILDING SECTIONS |
| A-211 | BUILDING SECTIONS |
| | |
| A-300 | WALL SECTIONS |
| A-301 | WALL SECTIONS |
| A-305 | EXTERIOR WALL TYPES |
| A-320 | WINDOW SCHEDULE/ELEV./DTLS. |
| A-321 | WINDOW DETAILS |
| A-322 | STOREFRONTS |
| | |
| A-400 | STAIR PLANS |

| A-401 | STAIR SECTIONS |
|----------|---|
| A-402 | STAIR SECTIONS & DETAILS |
| A-410 | ELEVATOR PLANS/ SECTIONS/DETAILS |
| A-420 | TRASH CHUTE/COMPACTOR ROOM PLANS/SECTIONS/DETAILS |
| | |
| A-500 | KITCHEN ELEVATIONS |
| A-501 | KITCHEN ELEVATIONS |
| A-502 | KITCHEN ELEVATIONS - UFAS |
| A-510 | BATHROOM ELEVATIONS |
| A-511 | BATHROOM ELEVATIONS |
| A-512 | PUBLIC RESTROOM ELEVATIONS |
| A-520 | LOBBY ELEVATIONS |
| A-540 | INTERIOR SIGNAGE |
| | |
| A-600 | PARTITION TYPES |
| A-601 | FIRE PROOFING |
| A-603 | AIR SEALING |
| A-604 | CEILING DETAILS |
| A-610 | DOOR SCHEDULE, DETAILS |
| A-613 | INT DOOR SADDLE DETAIL |
| A-620 | FINISH SCHEDULE, DETAILS |
| | |
| PLUMBING | |
| P-001 | PLUMBING SITE PLAN |
| P-099 | PLUMBING UNDERSLAB PLAN |
| P-100 | PLUMBING BASEMENT PLAN |
| P-101 | PLUMBING FIRST FLOOR PLAN |
| P-102 | PLUMBING 2ND FLOOR PLAN |
| P-103 | PLUMBING 3RD-6TH FLOOR PLANS |
| P-104 | PLUMBING 7TH FLOOR PLAN |
| P-105 | PLUMBING 8TH FLOOR PLAN |
| P-106 | PLUMBING ROOF PLAN |
| P-200 | PLUMBING SANITARY RISER DIAGRAM #1 |
| P-201 | PLUMBING SANITARY RISER DIAGRAM #2 |
| P-202 | PLUMBING STORM RISER DIAGRAM |
| P-203 | PLUMBING WATER RISER DIAGRAM |
| P-204 | PLUMBING GAS RISER DIAGRAM |
| P-300 | PLUMBING DETAIL SHEET #1 |
| P-301 | PLUMBING DETAIL SHEET #2 |

| MECHANICAL | |
|-----------------|--------------------------------|
| M-001 | COVER SHEET |
| M-100 | MECHANICAL BASEMENT PLAN |
| M-101 | MECHANICAL FIRST FLOOR PLAN |
| M-102 | MECHANICAL 2ND FLOOR PLAN |
| M-103 | MECHANICAL 3RD-6TH FLOOR PLANS |
| M-104 | MECHANICAL 7TH FLOOR PLAN |
| M-105 | MECHANICAL 8TH FLOOR PLAN |
| M-106 | MECHANICAL ROOF PLAN |
| M-300 | MECHANICAL SCHEDULE SHEET |
| M-400 | MECHANICAL DETAIL SHEET 1 |
| M-401 | MECHANICAL DETAIL SHEET 2 |
| M-402 | MECHANICAL DETAIL SHEET 3 |
| | |
| ENERGY ANALYSIS | |
| EN-001 | MECHANICAL COMCHECK |
| EN-002 | ELECTRICAL COMCHECK |
| EN-003 | BUILDING ENVELOPE COMCHECK |

Issue Date: 10/19/15

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 Scale: AS NOTED
 Drawn By: CN,AG,EG
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Sheet No.: **G-000.00**
 1 of

3365 THIRD AVE

3365 Third Ave Bronx, NY 10456

Owner
 3365 THIRD AVE OWNER, LLC
 1605 Dr. Martin Luther King Jr. Blvd.
 Bronx, NY 10453

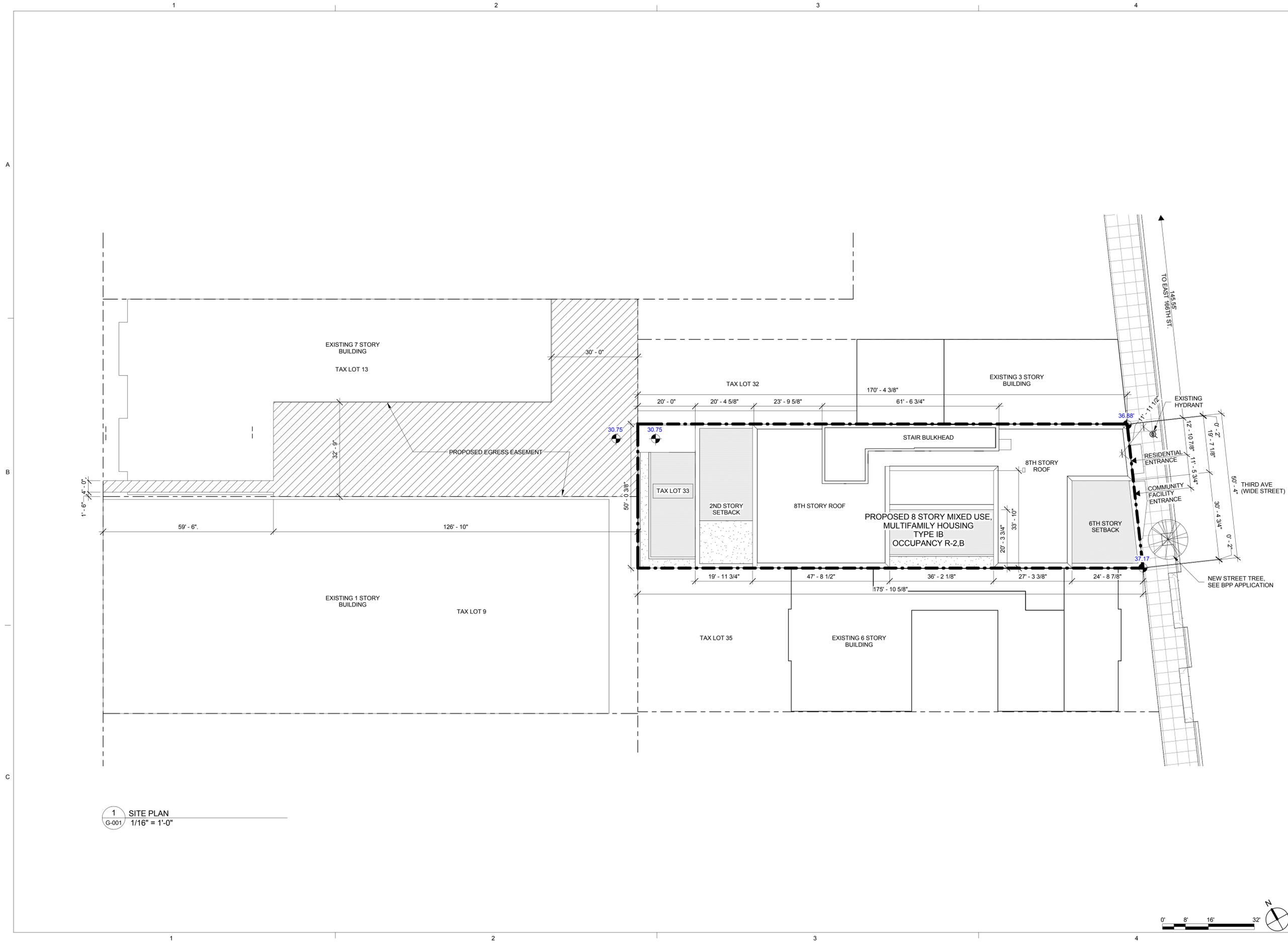
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 307 Seventh Ave, Suite 1701
 New York, NY 10001



| No. | Date | Revision |
|-----|------|----------|
| | | |

10/19/15 DOB SUBMISSION

| No. | Date | Submission |
|-----|------|------------|
| | | |

SITE PLAN

©2015 CURTIS + GINSBERG ARCHITECTS LLP
 Job No.: 1507
 Scale: 1/16" = 1'-0"
 Drawn By: CW/AG/EG
 Checked By: MEG

Sheet No.: **G-001.00**
 of

1 SITE PLAN
 G-001 1/16" = 1'-0"

GENERAL NOTES

1. PERMITS & COMPLIANCE: ALL WORK SHALL CONFORM TO & BE PERFORMED IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE BUILDING & ELECTRICAL CODES OF THE CITY OF NEW YORK, & ALL OTHER REGULATIONS HAVING JURISDICTION. ALL REQUIRED PERMITS SHALL BE OBTAINED BY THE CONTRACTOR BEFORE COMMENCEMENT OF THE WORK. ALL ELECTRICAL, PLUMBING, & SPRINKLER WORK SHALL BE PERFORMED, RESPECTIVELY, BY LICENSED ELECTRICIANS, PLUMBERS, FIRE ALARM & FIRE SUPPRESSION PIPING CONTRACTORS.

2. SPECIAL INSPECTIONS: AFTER ISSUANCE OF WORK PERMIT, SPECIAL AND OTHER INSPECTIONS SHALL BE MADE IN ACCORDANCE WITH AN INSPECTION PROGRAM SET FORTH IN THE PERMIT APPLICATION. SPECIAL INSPECTION ITEMS REQUIRE 72 HOURS PRIOR WRITTEN NOTICE TO PERSONS RESPONSIBLE FOR INSPECTION. RECORDS OF INSPECTIONS SHALL BE KEPT BY INSPECTOR FOR AT LEAST 6 YRS. AND MADE AVAILABLE TO THE DEPT. UPON REQUEST. (SEC. 28-116 ADMIN. CODE)

3. THE CONTRACT DOCUMENTS: CONSIST OF THE OWNER-CONTRACTOR AGREEMENT, THE CONDITIONS OF THE CONTRACT, THE DRAWINGS, THE SPECIFICATIONS, & ALL ISSUED MODIFICATIONS. IN CASE OF DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL OBTAIN INSTRUCTIONS FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

4. PROTECTION OF SITE: CONTRACTOR SHALL PROTECT EXISTING & NEIGHBORING BUILDINGS AS REQUIRED DURING CONSTRUCTION AND DO ALL SHORING & BRACING AS REQUIRED FOR PROPER AND SAFE EXECUTION OF THE WORK. ANY DAMAGE TO THE BUILDING & ADJACENT PROPERTIES CAUSED DURING CONSTRUCTION SHALL BE REPAIRED TO MATCH EXISTING CONDITIONS.

5. CONDITIONS AFFECTING THE WORK: BEFORE PROCEEDING WITH THE WORK, THE CONTRACTOR & SUBCONTRACTORS SHALL THOROUGHLY EXAMINE CONDITIONS AT THE PROJECT SITE TO ASSURE THAT THE WORK CAN PROCEED ACCORDING TO THE CONTRACT DOCUMENTS. CONDITIONS FOUND WHICH WILL ADVERSELY AFFECT THE WORK SHALL BE REVIEWED WITH THE ARCHITECT BEFORE PROCEEDING WITH THE AFFECTED WORK.

6. NOTIFICATION OF ADJACENT PROPERTY OWNERS: TEN DAYS PRIOR NOTICE SHALL BE GIVEN TO THE OWNER OF EACH ADJOINING LOT AS PER SEC. 105.5, 2113.1.6.3 AND 3304.3.2 OF THE NYC BUILDING CODE AS WELL AS TITLE 1, CH. 28 OF THE ADMIN. CODE.

7. COMMENCEMENT OF OPERATIONS: AT LEAST 24 HOURS, BUT NO MORE THAN 48 HOURS WRITTEN NOTICE SHALL BE GIVEN TO THE COMMISSIONER OF BUILDINGS BEFORE COMMENCING OF FOUNDATION AND EARTHWORK (B.C. SEC. 105.5). AT LEAST 48 HOURS WRITTEN NOTICE SHALL BE GIVEN TO THE DEPT. PRIOR TO COMMENCING DEMOLITION WORK (B.C. 105.6).

8. ELEVATION DATUM: SITE ELEVATIONS SHOWN REFER TO DATUM INDICATED ON THE SURVEY; SEE DRAWINGS LIST FOR SURVEY REFERENCE.

10. SURVEY AND BORINGS: SURVEY AND SUB-SURFACE TEST BORINGS ARE PROVIDED FOR INFORMATION ONLY. CURTIS + GINSBERG ARCHITECTS LLP AND SUBCONSULTANTS ARE NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF INFORMATION CONTAINED IN THE SURVEY OR TEST BORINGS PREPARED BY OTHERS.

11. DIMENSIONS: ALL DIMENSIONS ARE DRAWN TO FACE OF FINISH WALL, UNLESS OTHERWISE NOTED IN THE DRAWINGS. WRITTEN DIMENSIONS SHALL GOVERN OVER SCALED DIMENSIONS. WHEN A DETAIL, DIMENSION, OR REFERENCE IS INDICATED AS "TYPICAL," IT APPLIES TO ALL SIMILAR SITUATIONS, WHETHER OR NOT INDICATED.

12. CORNER CLEARANCE: THE DISTANCE FROM ANY DOOR OPENING TO ADJACENT PARTITIONS SHALL NOT BE LESS THAN 2", UNLESS OTHERWISE NOTED IN THE DRAWINGS.

13. MEANS AND METHODS: THE ARCHITECT SHALL NOT HAVE CONTROL OR CHARGE & SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION, FABRICATION, PROCUREMENT, SHIPMENT, DELIVERY, OR INSTALLATION, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTORS, SUBCONTRACTORS, SUPPLIERS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN THE CONTRACT DOCUMENTS.

14. COORDINATION: BEFORE PROCEEDING WITH THE WORK, THE CONTRACTOR & SUBCONTRACTORS SHALL COORDINATE THE SEQUENCING & INSTALLATION OF THE WORK COVERED IN THE CONTRACT DOCUMENTS.

15. MATERIALS: MATERIALS, ASSEMBLIES, EQUIPMENT, METHODS OF CONSTRUCTION, & SERVICE EQUIPMENT SHALL MEET THE APPROVAL OF THE COMMISSIONER, IN ALL INSTANCES, AS PER ARTICLE 113 OF THE ADMIN. CODE.

16. FACILITIES AND SERVICES: THE WORK & OPERATIONS OF DEMOLITION & CONSTRUCTION SHALL COMMENCE ONLY AFTER ALL REQUIRED TEMPORARY PROTECTION & SERVICES ARE IN PLACE. EXISTING FACILITIES & SERVICES SHALL BE DISCONNECTED AND/OR REMOVED FOR THE PURPOSES OF CONSTRUCTION OR DEMOLITION ONLY AFTER THEY ARE REPLACED BY TEMPORARY OR PERMANENT NEW FACILITIES & SERVICES.

17. RODENT PROOFING: APPENDIX F OF THE NYC BUILDING CODE SHALL APPLY TO ALL RODENT PROOFING REQUIREMENTS FOR CONSTRUCTION.

18. RATED ASSEMBLIES: ALL MATERIALS OR ASSEMBLIES REQUIRED TO HAVE A FIRE RESISTANCE RATING SHALL COMPLY WITH THE APPROPRIATE NEW YORK CITY BUILDING CODE STANDARDS.

19. MASONRY UNITS: ALL MASONRY UNITS AND CONSTRUCTION ASSEMBLIES SHALL COMPLY WITH THE APPROPRIATE NEW YORK CITY BUILDING CODE STANDARDS.

20. FLAME SPREAD & SMOKE DENSITY FOR NEW CONSTRUCTION:
A) FLAME SPREAD RATING TO COMPLY WITH 803 AND CH. 8 OF THE NEW YORK CITY BUILDING CODE.
B) SMOKE DEVELOPED INDEX SHALL COMPLY WITH CH. 8 OF THE NEW YORK CITY BUILDING CODE.
C) SMOKE DENSITY: NO MATERIAL SHALL BE USED FOR INTERIOR FINISH FOR EXITS OR CORRIDORS THAT HAS A SMOKE DENSITY RATING GREATER THAN 25, AS PER 803 AND 803.1.1 OF THE NEW YORK CITY BUILDING CODE.

21. FIRESTOPPING - GENERAL: CONCEALED SPACES WITH PARTITIONS, WALLS, FLOORS, ROOFS STAIRS, FURRING, PIPE SPACES, COLUMN ENCLOSURES, ETC. SHALL BE FIRESTOPPED (EXCEPT WHERE CONCEALED SPACE IS SPRINKLERED) WITH NON-COMBUSTIBLE MATERIAL THAT CAN BE SHAPED, FITTED, & PERMANENTLY SECURED IN POSITION AS PER 717 OF THE NEW YORK CITY BUILDING CODE, AND WHICH HAS BEEN TESTED IN ACCORDANCE WITH ASTM E 814 CRITERIA.

22. FIRESTOPPING - FURRING OF INTERIOR FINISHES: PER SEC. 803.4 OF THE NYC BUILDING CODE, ANY INTERIOR FINISH APPLIED TO A RATED ASSEMBLY WALL SHALL BE DIRECTLY ATTACHED OR BY FURRING STRIPS NOT EXCEEDING 0.75 IN. APPLIED DIRECTLY AGAINST SUCH SURFACES. INTERVENING SPACES BETWEEN STRIPS SHALL BE FILLED WITH INORGANIC OR CLASS A MATERIAL OR BE FIREBLOCKED AT A MAX. OF 8 FT. IN ANY DIRECTION.

23. FIRESTOPPING - DUCTS, PIPES, & CONDUITS: DUCTS, PIPES, & CONDUITS PASSING THROUGH FIRE RATED CONSTRUCTION SHALL HAVE SURROUNDING SPACES NOT EXCEEDING 1/2" IN WIDTH FILLED WITH FIRESTOPPING MATERIAL APPROVED BY THE CODE & CLOSED OFF WITH CLOSE-FITTING METAL CLOSURES. REFER TO DEFINITION OF CONCEALED SPACES IN BC 702.1. DUCTWORK PENETRATIONS SHALL ALSO BE PROTECTED BY RATED SELF CLOSING DEVICES, PER 716 OF THE NEW YORK CITY BUILDING CODE.

24. ELEVATORS: SHALL BE FILED AS SEPARATE NYC BLDG. DEPT. APPLICATION. ELEVATORS SHALL COMPLY WITH ALL APPLICABLE ACCESSIBILITY REGULATIONS AS WELL AS APPENDIX K OF THE NYC BUILDING CODE. ELEVATORS AND ACCESSORIES SHALL COMPLY WITH THE REQUIREMENTS FOR THE FIREMEN'S RECALL SYSTEM AND REQUIREMENTS OF APPENDIX G FOR FLOOD ZONE. SIGNAGE SHALL COMPLY WITH CH. 10 & CH. 11 OF THE NYC BUILDING CODE. PROVIDE MIRRORS IN ELEVATOR CAB.

25. WASTE DISPOSAL: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS & SHIPPING CARTONS FROM THE PREMISES, INCLUDING THOSE OF OTHER CONTRACTORS.

26. CLEANING: THE SITE IS TO BE KEPT BROOM SWEEPED AT THE END OF EACH DAY. WHEN WORK IS COMPLETE IN A GIVEN AREA, CLEAN ALL SURFACES AS REQUIRED, GIVEN THE NATURE OF FINISH, TO BE FREE OF DUST, STAINS, FILMS, & OTHER FOREIGN SUBSTANCES. IN ADDITION, REMOVE ALL DEBRIS, PACKING MATERIAL, & CONTRACTOR'S EQUIPMENT.

27. NOISE CONTROL: THE WORK SHALL COMPLY WITH REQUIREMENTS FOR MC-926 AND INTERIOR ENVIRONMENT CHAPTER 12 AND ADDITIONALLY CHAPTER 30 OF NYC BUILDING:

A) AIR BORNE NOISE: WALLS, PARTITIONS, FLOOR-CEILING CONST. SEPARATING DWELLING UNITS - STC 50 IF LAB. TESTED BY ASTM E 90 OR NOT LESS THAN 45 IF FIELD TESTED WITH ASTM E 338. DWELLING UNIT ENTRANCE DOORS - STC 35.
B) STRUCTURE BORNE NOISE: FLOOR-CEILING CONST. SEPARATING DWELLING UNITS SHALL HAVE AN IMPACT INSULATION CLASS(IIC) RATING OF NOT LESS THAN 50 IF LAB. TESTED WITH ASTM E492 OR 45 IF FIELD TESTED WITH ASTM E 1007.
C) EQUIPMENT/MACHINE RM.: SHALL COMPLY WITH SEC. 1207.2.1 & TABLE 1207.2.1 OF NYC BUILDING CODE.

28. CHIMNEY: THE WORK SHALL COMPLY WITH NYC BLDG. CODE. ENCLOSURE OF INTERIOR METAL CHIMNEY SHALL BE 2 HR. RATED.

29. REFUSE CHUTE AND COMPACTOR:

A) REFUSE CHUTE TO COMPLY WITH 1213 AND NYC BLDG. CODE AS FOLLOWS:
• SHAFT ENCLOSURE HAVING AT LEAST A 2-HR. FIRE RATING AS REQUIRED BY SECTION 802 AND 707 OF THE CODE.
• ENCLOSED BY NON-COMBUSTIBLE MATERIALS AS REQUIRED BY SECTION 707 OF THE CODE.
• EXTEND THROUGH ROOF TO A POINT 6 FT. MINIMUM ABOVE THE ROOF AS REQUIRED BY SECTION 706 AND 707 OF THE CODE.
• BE PROVIDED WITH STERILIZING FACILITIES.
• SPRINKLERS ARE REQUIRED BY SECTION 707 OF THE CODE.
B) ACCESS DOORS FOR REFUSE CHUTE ARE 1-1/2-HR. RATED FPSC DOORS SECTION 707 OF THE CODE.
C) CHUTE TO COMPLY WITH NOISE CONTROL REQUIREMENTS OF 1207, 707.13 AND MC-926 OF THE NYC BUILDING CODE.
D) MAINTENANCE: REFUSE CHUTE, REFUSE ROOMS, HOPPERS AND ALL PARTS OF THE REFUSE COLLECTING SYSTEM SHALL BE MAINTAINED IN A CLEAN AND SANITARY CONDITION AT ALL TIMES, FREE OF VERMIN, ODORS AND DEFECTS AND GOOD OPERATING CONDITION IN ACCORDANCE WITH NYC BUILDING CODE AND NYC HEALTH DEPT.
E) PEST CONTROL: THE OWNER SHALL ESTABLISH A PROGRAM TO PREVENT INFESTATION OF REFUSE COLLECTION SYSTEM BY INSECTS OR RODENTS AND SHALL MAINTAIN RECORDS OF TREATMENTS. REFER TO BC F101.
F) TERMINATION ROOM SHALL COMPLY WITH NYC BLDG. DEPT. AND HEALTH DEPT. REGULATIONS. CONCRETE FLOOR SHALL SLOPE TO DRAIN AND A HOSE CONNECTION PROVIDED IN ROOM.
G) POSTING OF SIGNS AT SERVICE OPENINGS INTO REFUSE CHUTES WILL COMPLY WITH SEC. CH. 10 AND CH. 11 OF THE NYC BUILDING CODE.

30. INSTALLATION: THE CONTRACTOR SHALL PROVIDE COMPLETE INSTALLATION IN CONFORMANCE WITH THE DESIGN INTENT OF THE DRAWINGS & SPECIFICATIONS, WHICH INCLUDES ALL REQUIRED FASTENERS, HARDWARE, & ACCESSORIES. THESE ITEMS SHALL BE PROVIDED EVEN IF THEY ARE NOT SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS. ANY OF THE ABOVE ITEMS IN PLAIN VIEW SHALL BE APPROVED BY THE ARCHITECT BEFORE INSTALLATION.

31. SCHEDULED MATERIALS, FIXTURES, & EQUIPMENT: ALL MATERIALS, FIXTURES, & EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS, UNLESS OTHERWISE NOTED IN THE DRAWINGS & SPECIFICATIONS.

32. INTERCOM SYSTEM: DIRECTORY WITH BELLS AND INTERCOM SYSTEM AT GROUND FLOOR ENTRANCE SHALL HAVE CONNECTION TO SPEAKER IN EACH APARTMENT. SPEAKER IN EACH APARTMENT SHALL COMMUNICATE WITH SPEAKER AT ENTRANCE

33. STRUCTURAL:

A) FOR NOTES REFERRING TO LIVE AND DEAD LOADS, STRUCTURAL WORK AND FOUNDATIONS, REFER TO STRUCTURAL DRAWINGS.
B) STRUCTURAL PLANS WILL BE FILED SHOWING ALL FOOTINGS, FOUNDATIONS, WALLS, SLABS, REINFORCING, ETC.

34. FLOOD DAMAGE-RESISTANT MATERIALS: INTERIOR AND EXTERIOR FINISH BELOW THE FLOOD-RESISTANCE CONSTRUCTION ELEVATION SHALL CONSIST OF FLOOD DAMAGE-RESISTANT MATERIAL IN ACCORDANCE WITH FEMA TECHNICAL BULLETING 2 / AUGUST 2008.

35. FINISHES: INTERIOR FINISHES & MATERIALS FOR FLOORS, BASE, WALLS, & CEILING ARE INDICATED BY ROOM ON THE FINISH SCHEDULE. THE CONTRACTOR SHALL PROVIDE SCHEDULED FINISHES FOR EACH ROOM & SPACE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

36. DOORS, FRAMES, & HARDWARE: DOORS, FRAMES, & HARDWARE ARE INDICATED ON THE DOOR SCHEDULE. THE CONTRACTOR SHALL PROVIDE SCHEDULED DOOR(S), FRAME(S), & HARDWARE FOR EACH DOOR OPENING ACCORDING TO THE CONTRACT DOCUMENTS.

37. MECHANICAL VENTILATION: MECHANICAL VENTILATION SHALL COMPLY WITH CHAPTER 12 OF THE NEW YORK CITY BUILDING CODE.

38. SIGNAGE: SIGNS SHALL BE POSTED WHERE APPLICABLE AT ALL BUILDING, ROOM & DWELLING UNIT ENTRANCES AND ALL EXITS, STAIRS(1019), RAMPS TO COMPLY WITH CHAPTERS 10 & 11 OF THE NYC BLDG. CODE.

39. WORK BEYOND STREET LINE: NO WORK SHALL BE PERFORMED BEYOND THE STREET LINE PRIOR TO OBTAINING APPROVAL FROM THE DEPARTMENT OF HIGHWAYS. PERMITS FOR ALL WORK OUTSIDE THE STREET LINE SHALL BE OBTAINED BY THE CONTRACTOR. SIDEWALK & STREET CURBING SHALL BE REBUILT IN ACCORDANCE WITH THE REQUIREMENTS OF THE DEPARTMENT OF HIGHWAYS.

40. ACCESSIBILITY/ADAPTABILITY: BUILDING SHALL BE HCPD, ACCESSIBLE AND/OR ADAPTABLE PER CH. 11(1101) OF THE 2014 N.Y.C BUILDING CODE AND FAIR HOUSING ACT DESIGN MANUAL

40. PAVING PLANS SHALL BE FILED WITH THE DEPARTMENT OF TRANSPORTATION PURSUANT TO SEC. 19-113 & 19-115 OF THE ADMIN. CODE.

41. FIRE HYDRANT: BUILDING ENTRANCE IS WITHIN 250 FEET OF FIRE HYDRANT.

42. MODEL UNIT: AS SOON AS POSSIBLE, DURING CONSTRUCTION, CONTRACTOR TO BUILD A MODEL UNIT FOR REVIEW AND APPROVAL OF FINISHES, DETAILS, ETC. MODEL UNIT TO BE BUILT OUT WITH PLUMBING FIXTURES, CABINETS, FLOORING, PAINT, TILE, LIGHTING FIXTURES, ETC., PRIOR TO FINISHING OF OTHER UNITS. UNIT LOCATION TO BE SELECTED IN CONSULTATION WITH OWNER AND ARCHITECT. UPON APPROVAL BY OWNER AND ARCHITECT THE MODEL APARTMENT WILL ACT AS A STANDARD FOR FINISH OF ALL OTHER UNITS.

43. NOTIFICATION WILL BE PROVIDED TO THE DOB 24 - 48 HOURS PRIOR TO COMMENCEMENT OF EARTHWORK.

MULTIPLE DWELLING LAW & HOUSING MAINTENANCE CODE

NEW YORK STATE MULTIPLE DWELLING LAW & NEW YORK CITY HOUSING MAINTENANCE CODE ARTICLE 3: MULTIPLE DWELLINGS

3.11 MDL THE FOLLOWING ENUMERATED ARTICLES, SECTIONS AND SUBDIVISIONS OF SECTIONS SHALL NOT APPLY TO MULTIPLE DWELLING CONSTRUCTED UNDER THE "NEW" CODE: TWENTY-FIVE, TWENTY-SEVEN, TWENTY-EIGHT, THIRTY-FIVE-C, THIRTY-SIX AND THIRTY-NINE OF SECTION FOUR, SUBDIVISION THREE OF SECTION TWENTY-EIGHT, SECTIONS THIRTY-SIX, THIRTY-SEVEN, FIFTY, FIFTY-ONE, FIFTY-TWO, FIFTY-THREE, FIFTY-FIVE, SIXTY, SIXTY-ONE, SIXTY-SEVEN, SUBDIVISIONS ONE, TWO, FOUR AND FIVE OF SECTION SEVENTY-FIVE, ARTICLE FOUR, ARTICLE FIVE, ARTICLE FIVE-A, ARTICLE SIX AND ARTICLE SEVEN-B;
30 MDL LIGHTING AND VENTILATION: EVERY ROOM, INCL. KITCHEN AND BATH MUST HAVE AT LEAST 1 WINDOW.

30.7 MDL TOTAL AREA OF WINDOW = 10% OF ROOMS FLOOR AREA AND NOT LESS THAN 12 SQ. FT.

31.2 MDL A) AT LEAST ONE LIVING ROOM > 132 SF.
B) EVERY LIVING ROOM > 80 SF
D) EVERY LIVING ROOM > 8' IN SHORT DIM.

33.1 MDL IF >79 S.F. IT IS A KITCHEN. IF < 79 SF, KITCHENETTE.

33.3 MDL COMBUSTIBLE MATERIAL WITHIN 1 FT. OF COOKING APPARATUS SHALL BE FIRE PROTECTED AS REQ'D. THERE SHALL BE AT LEAST 2 FT. CLEAR ABOVE COOKING SURFACE.

35 MDL ENTRANCE DOORS AND LIGHTS: AT LEAST 5 S.F. OF GLAZED SURFACE AT ENTRANCE DOOR. EXTERIOR LIGHTING OF ENTRANCE AREA WILL BE PROVIDED.

51 MDL A) PEEP HOLES REQUIRED AT EACH APARTMENT ENTRANCE DOOR. DOORS TO DWELLING UNITS SHALL BE EQUIPPED WITH HEAVY DUTY LOCK AND DEAD BOLT OPERABLE BY KEY FROM OUTSIDE AND THUMB TURN FROM INSIDE.

57 MDL MAILBOXES ARE PROVIDED IN BLDG. LOBBY.

62 MDL PARAPETS AND GUARDRAILS: GUARD RAILS SHALL BE 3'-6" OR MORE IN HEIGHT. NO ANTENNAE, ETC. SHALL BE ATTACHED TO FIRE ESCAPES, SOIL OR VENT LINES.

65 MDL BOILER ROOMS; 1 HOUR FIRE RESISTIVE ENCLOSURE REQUIRED.

76 MDL BATHROOMS IN DWELLING UNITS SHALL BE VENTILATED TO PROVIDE AT LEAST FOUR AIR CHANGES PER HOUR.

79 MDL HEAT SHALL BE PROVIDED BETWEEN OCTOBER 1 AND MAY 31 TO MAINTAIN MINIMUM TEMPERATURES:
A) 68 DEG. FAHRENHEIT BETWEEN 6 AM AND 10 PM, WHEN OUTSIDE TEMPERATURE IS BELOW 55 DEG. FAHRENHEIT
B) AT LEAST 55 DEG. FAHRENHEIT BETWEEN 10 PM AND 6 AM, WHEN OUTSIDE TEMPERATURE FALLS BELOW 40 DEG. FAHRENHEIT.

81 MDL OWNER WILL COMPLY WITH MAINTENANCE REQUIREMENTS.

83 MDL OWNER WILL PROVIDE JANITORIAL SERVICES.

83 MDL FLOOR SIGNS AND STREET NUMBERS WILL BE PROVIDED.

89 HMC

HMC 27-2043 THE OWNER OF A DWELLING SHALL PROVIDE A KEY LOCK IN THE ENTRANCE DOOR TO EACH DWELLING AND AT LEAST ONE KEY. IN A CLASS A MULTIPLE DWELLING SUCH DOOR SHALL BE EQUIPPED WITH A HEAVY DUTY LATCH SET AND A HEAVY DUTY DEAD BOLT OPERABLE BY A KEY FROM THE OUTSIDE AND A THUMB-TURN FROM THE INSIDE. B. EACH DWELLING UNIT ENTRANCE DOOR IN A CLASS A MULTIPLE DWELLING SHALL ALSO BE EQUIPPED WITH A CHAIN DOOR GUARD SO AS TO PERMIT PARTIAL OPENING OF THE DOOR.

2011 SMOKE/ CARBON MONOXIDE DETECTOR NOTES

1. CO/ SMOKE DETECTORS SHALL BE INSTALLED AS REQUIRED BY SECTION 907 AND 908.7.1.1.1 AND BY LOCAL LAW #7 OF 2004.

2. UNITS SHALL BE EITHER IONIZATION CHAMBER OR PHOTOELECTRIC TYPE.

3. UNITS TO BE HARD WIRED. ALL HARD-WIRED CO/ SMOKE DETECTORS WITHIN THE SAME DWELLING UNIT SHALL BE INTERCONNECTED SO THAT THE ACTIVATION OF ONE ALARM OR DETECTOR WILL ACTIVATE ALL ALARMS OR DETECTORS IN THE INDIVIDUAL UNIT. THE ALARM OR DETECTOR SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED.

4. UNITS TO BE APPROVED BY BOARD OF STANDARDS AND APPEALS ACCEPTED TO RULES AND REGULATIONS PROMULGATED BY THE COMMISSIONER OR BE LISTED BY AN ACCEPTABLE TESTING LABORATORY SUCH AS: UNDERWRITERS' LAB, NORTHBROOK, ILL. MEA LAB NO. 1-69-L AND UL 2034 STANDARD FOR SINGLE AND MULTIPLE STATION CARBON MONOXIDE DETECTORS, OCTOBER 29, 1996 THROUGH JUNE, 2002. CANADIAN STANDARDS ASSOC. ONTARIO, CA, MEA LAB NO. 25-69-L. UNDERWRITERS' LAB OF CANADA, ONTARIO, CA, MEA LAB NO. 81-80-L.

5. PRIMARY POWER SHALL BE RECEIVED FROM A DEDICATED BRANCH CIRCUIT OR THE UNSWITCHED PORTION OF A BRANCH CIRCUIT ALSO USED FOR POWER AND LIGHTING, AND SHALL BE EQUIPPED WITH A BATTERY BACKUP. SMOKE ALARMS SHALL EMIT A SIGNAL WHEN BATTERIES ARE LOW. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN AS REQUIRED FOR OVER-CURRENT PROTECTION.

6. UNITS SHALL BE INSTALLED IN AREAS DESIGNATED ON PLANS. THEY SHALL BE LOCATED ON THE CEILING OR WALL OUTSIDE OF EACH ROOM USED FOR SLEEPING PURPOSES WITHIN 15 FEET FROM THE DOOR TO SUCH ROOM AND IN EACH ROOM USED FOR SLEEPING PURPOSES. THEY SHALL BE LOCATED IN EACH STORY WITHIN A DWELLING UNIT.

7. CEILING MOUNT - CLOSEST EDGE OF UNIT SHALL BE A MINIMUM OF 4" FROM ANY WALLS.

8. WALL MOUNT - CLOSEST EDGE SHALL BE A MINIMUM OF 4" AND A MAXIMUM OF 12" FROM THE CEILING.

9. SMOKE ALARMS SHALL BE PROVIDED WITH THE CAPABILITY TO SUPPORT VISIBLE ALARM NOTIFICATION APPLIANCES IN ACCORDANCE WITH ICC/ANSI A117.1.

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Table with 3 columns: No., Date, Revision

10/19/15 DOB SUBMISSION

Table with 3 columns: No., Date, Submission

Title: GENERAL NOTES

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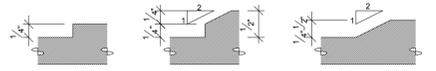
of G-004.00

ACCESSIBILITY NOTES

1. ALL WORK SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF CHAPTER 11 OF THE 2014 NEW YORK CITY BUILDING CODE, INCLUDING APPENDICES E AND F.
2. ALL WORK SHALL COMPLY WITH THE FAIR HOUSING ACT DESIGN MANUAL.
3. ALL WORK SHALL COMPLY WITH THE 2010 AMERICANS WITH DISABILITIES ACT.
4. NOT ALL DIAGRAMS SHOWN ARE APPLICABLE TO THIS SET OF DRAWINGS.
5. UNITS ARE DESIGNED AS NYC TYPE B+ UNITS, AS DEFINED BY THE 2014 NEW YORK CITY BUILDING CODE. UNLESS OTHERWISE NOTED.
6. THE FOLLOWING DIAGRAMS ARE BASED ON ANSI A117.1-2009 WITH REVISIONS FOR COMPLIANCE WITH 2014 NEW YORK CITY BUILDING CODE, 2010 ADA AND/OR THE FAIR HOUSING ACT DESIGN MANUAL.
7. FAIR HOUSING ACT DESIGN MANUAL AS SAFE HARBOR

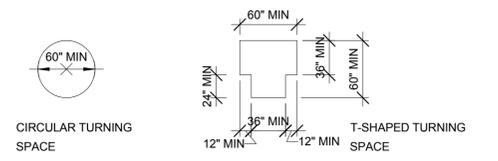
SECTION 303 CHANGES IN LEVEL

1. CHANGES IN LEVEL OF 1/4 INCH MAXIMUM IN HEIGHT SHALL BE PERMITTED TO BE VERTICAL.
2. CHANGES IN LEVEL GREATER THAN 1/4 INCH IN HEIGHT AND NOT MORE THAN 1/2 INCH MAXIMUM IN HEIGHT SHALL BE AVELED WITH A SLOPE NOT STEEPER THAN 1:2.
3. 4 INCH MAXIMUM CHANGE IN LEVEL ALLOWED AT TERRACES CONSTRUCTED OF IMPERVIOR MATERIALS.



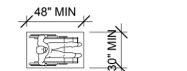
SECTION 304 TURNING SPACE

1. THE TURNING SPACE SHALL BE A CIRCULAR SPACE WITH A 60-INCH MINIMUM DIAMETER.
2. THE TURNING SPACE SHALL BE A T-SHAPED SPACE WITHIN A 60-INCH MINIMUM SQUARE, WITH ARMS AND BASE 36 INCHES MINIMUM IN WIDTH. EACH ARM OF THE T SHALL BE CLEAR OF OBSTRUCTIONS 12 MINIMUM IN EACH DIRECTION, AND THE BASE SHALL BE CLEAR OF OBSTRUCTIONS 24 INCHES MINIMUM.
3. UNLESS OTHERWISE SPECIFIED, DOORS SHALL BE PERMITTED TO SWING INTO TURNING SPACES.



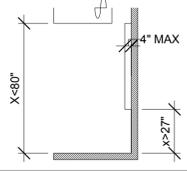
SECTION 305 CLEAR FLOOR SPACE

THE CLEAR FLOOR SPACE SHALL BE 48 INCHES MINIMUM IN LENGTH AND 30 INCHES MINIMUM IN WIDTH.



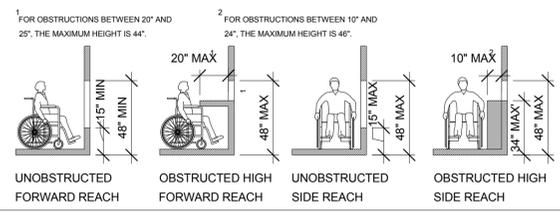
SECTION 307 PROTRUDING OBJECTS

OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES AND NOT MORE THAN 80 INCHES ABOVE THE FLOOR SHALL PROTRUDE 4 INCHES MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH.



SECTION 308 REACH RANGES

1. WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15 INCHES MINIMUM ABOVE THE FLOOR.
2. WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE REACH SHALL BE 48 INCHES MAXIMUM WHERE THE REACH DEPTH IS 20 INCHES MAXIMUM, WHERE THE REACH DEPTH EXCEEDS 20 INCHES, THE HIGH FORWARD REACH SHALL BE 44 INCHES MAXIMUM AND THE REACH DEPTH SHALL BE 25" MAXIMUM.
3. WHERE A SIDE REACH IS UNOBSTRUCTED, HIGH SIDE REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES MINIMUM ABOVE THE FLOOR.
4. WHERE A HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES MAXIMUM. THE HIGH SIDE REACH SHALL BE 48 INCHES MAXIMUM FOR A REACH DEPTH OF 10 INCHES MAXIMUM, WHERE THE REACH DEPTH EXCEEDS 10 INCHES, THE HIGH SIDE REACH SHALL BE 46 INCHES MAXIMUM FOR A REACH DEPTH OF 24 INCHES MAXIMUM.

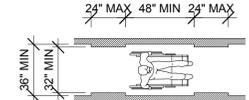


SECTION 309 OPERABLE PARTS

1. A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305 SHALL BE PROVIDED.
2. OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN SECTION 308.
3. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5.0 POUNDS MAXIMUM.

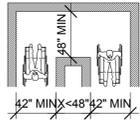
SECTION 403.5 CLEAR WIDTH AT WALKING SURFACES

1. THE CLEAR WIDTH OF AN ACCESSIBLE ROUTE IS 36 INCHES WHEN THE SEGMENT LENGTH IS GREATER THAN 24 INCHES IN LENGTH AND 32 INCHES WHEN THE SEGMENT LENGTH IS LESS THAN OR EQUAL TO 24 INCHES IN LENGTH.
2. CONSECUTIVE SEGMENTS OF 32 INCHES IN WIDTH MUST BE SEPARATED BY A ROUTE SEGMENT 48 INCHES MINIMUM IN LENGTH AND 36 INCHES MINIMUM IN WIDTH.



SECTION 403.5.1 CLEAR WIDTH AT A TURN

WHERE AN ACCESSIBLE ROUTE MAKES A 180 DEGREE TURN AROUND AN OBJECT THAT IS LESS THAN 48 INCHES IN WIDTH, CLEAR WIDTHS SHALL BE 42 INCHES MINIMUM APPROACHING THE TURN, 48 INCHES MINIMUM DURING THE TURN, AND 42 INCHES MINIMUM LEAVING THE TURN. EXCEPTION: SECTION 403.5.1 SHALL NOT APPLY WHERE THE CLEAR WIDTH AT THE TURN IS 60 INCHES MINIMUM.

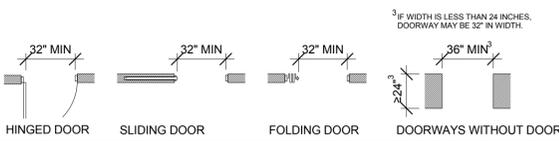


SECTION 403.5.2 PASSING SPACE AT WALKING SURFACES

AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN 60 INCHES SHALL PROVIDE PASSING SPACES AT INTERVALS OF 200 FEET MAXIMUM. PASSING SPACES SHALL BE EITHER A 60 INCH MINIMUM BY 60 INCH MINIMUM SPACE, OR AN INTERSECTION OF TWO WALKING SURFACES THAT PROVIDE A T-SHAPED TURNING SPACE COMPLYING WITH SECTION 304, PROVIDED THE BASE AND ARMS OF THE T-SHAPED SPACE EXTEND 48" MINIMUM BEYOND THE INTERSECTION.

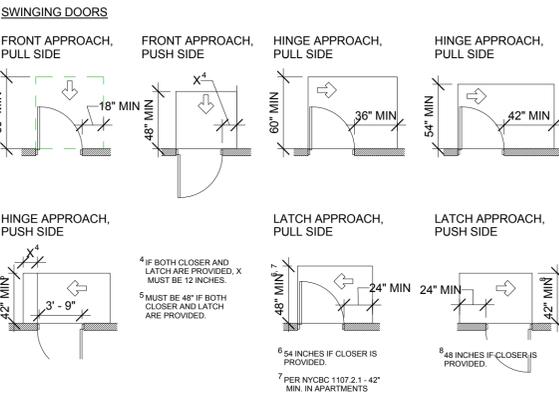
SECTION 404.2.2 CLEAR WIDTH AT DOORS

1. DOORWAYS SHALL HAVE A CLEAR OPENING WIDTH OF 32 INCHES MINIMUM. CLEAR OPENING WIDTH OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF DOOR AND STOP, WITH THE DOOR OPEN 90 DEGREES.
2. OPENINGS, DOORS AND DOORWAYS WITHOUT DOORS MORE THAN 24 INCHES IN DEPTH SHALL PROVIDE A CLEAR OPENING WIDTH OF 36 INCHES MINIMUM.
3. THERE SHALL BE NO PROJECTIONS INTO THE CLEAR OPENING WIDTH LOWER THAN 34 INCHES ABOVE THE FLOOR. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES AND 80 INCHES ABOVE THE FLOOR SHALL NOT EXCEED 4 INCHES.



SECTION 404.2.3 MANEUVERING CLEARANCES AT DOORS

MINIMUM MANEUVERING CLEARANCES AT DOORS SHALL COMPLY WITH THE DIAGRAMS BELOW.

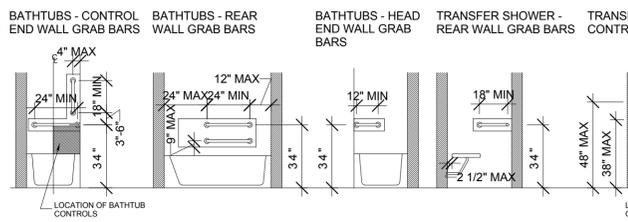
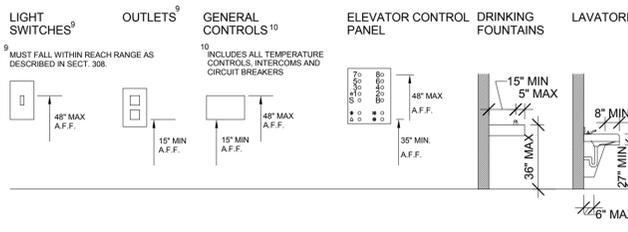


SECTION 404.2.4 DOORWAY CLEARANCES AT DOORS

MINIMUM MANEUVERING CLEARANCES AT DOORS SHALL COMPLY WITH THE DIAGRAMS BELOW.

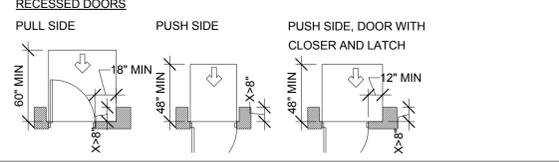


ACCESSIBLE MOUNTING HEIGHTS; REFER TO NEXT PAGE FOR MORE GRAB BAR DIMENSIONS.



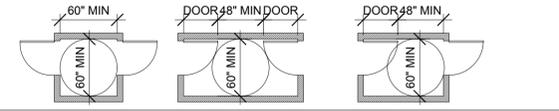
RECESSED DOORS

PULL SIDE, PUSH SIDE, PUSH SIDE, DOOR WITH CLOSER AND LATCH



SECTION 404.2.5 TWO DOORS IN SERIES

DISTANCE BETWEEN TWO HINGED OR PIVOTED DOORS IN SERIES SHALL BE 48 INCHES MINIMUM PLUS THE WIDTH OF ANY DOOR SWINGING INTO THE SPACE. THE SPACE BETWEEN THE DOORS SHALL PROVIDE A TURNING SPACES COMPLYING WITH SECTION 304.



SECTION 404.2.7 CLOSING SPEED

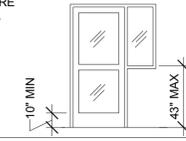
1. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES SHALL BE 5 SECONDS MINIMUM.
2. DOOR SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM.

SECTION 404.2.8 DOOR-OPENING FORCE

1. FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.
2. THE FORCE FOR PUSHING OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL BE 5.0 POUNDS MAXIMUM FOR INTERIOR HINGED DOORS AND 5.0 POUNDS MAXIMUM FOR SLIDING OR FOLDING DOORS.

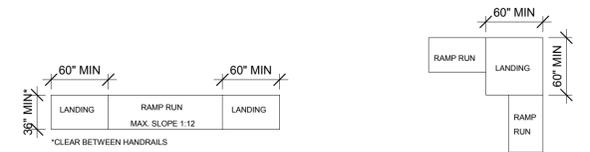
SECTION 404.2.9 DOOR SURFACE AND 404.2.10 AND VISION LITES

1. DOOR SURFACES WITHIN 10 INCHES OF THE FLOOR, MEASURED VERTICALLY, SHALL BE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR.
2. DOORS AND SIDELITES ADJACENT TO DOORS CONTAINING ONE OR MORE GLAZING PANELS THAT PERMIT VIEWING THROUGH THE PANELS SHALL HAVE THE BOTTOM OF AT LEAST ONE PANEL ON EITHER THE DOOR OR AN ADJACENT SIDELITE 43 INCHES MAXIMUM ABOVE THE FLOOR. EXCEPTION: VISION LITES WITH THE LOWEST PART MORE THAN 66 INCHES ABOVE THE FLOOR ARE NOT REQUIRED TO COMPLY.



SECTION 405 RAMPS

1. RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12.
2. CROSS SLOPE OF RAMP RUNS AND LANDINGS SHALL NOT BE STEEPER THAN 1:48.
3. THE CLEAR WIDTH OF A RAMP RUN SHALL BE 36 INCHES MINIMUM, WHERE HANDRAILS ARE PROVIDED ON THE RAMP RUN, THE CLEAR WIDTH SHALL BE MEASURED BETWEEN THE HANDRAILS.
4. THE RISE FOR ANY RAMP RUN SHALL BE 30 INCHES MAXIMUM.
5. RAMP RUNS SHALL HAVE LANDINGS AT BOTTOM AND TOP OF EACH RAMP RUN.
6. THE CLEAR WIDTH OF LANDINGS SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING.
7. LANDINGS SHALL HAVE A CLEAR LENGTH OF 60 INCHES MINIMUM.
8. RAMPS THAT CHANGE DIRECTION AT RAMP LANDINGS SHALL BE SIZED TO PROVIDE A TURNING SPACE COMPLYING WITH SECTION 304.
9. RAMPS WITH A RISE GREATER THAN 6 INCHES SHALL HAVE HANDRAILS COMPLYING WITH SECTION 505.

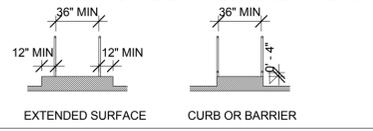


SECTION 405.9 EDGE PROTECTION

1. EDGE PROTECTION COMPLYING WITH SECTION 405.9 SHALL BE PROVIDED ON EACH SIDE OF RAMP RUNS AND AT EACH SIDE OF RAMP LANDINGS.
2. THE FLOOR SURFACE OF THE RAMP RUN OR RAMP LANDING SHALL EXTEND 12 INCHES MINIMUM BEYOND THE INSIDE FACE OF A RAILING COMPLYING WITH SECTION 505.

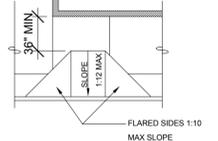
SECTION 405.9 EDGE PROTECTION (CONT'D)

3. A CURB OR BARRIER SHALL BE PROVIDED THAT PREVENTS THE PASSAGE OF A 4-INCH DIAMETER SPHERE WHERE ANY PORTION OF THE SPHERE IS WITHIN 4 INCHES OF THE FLOOR.



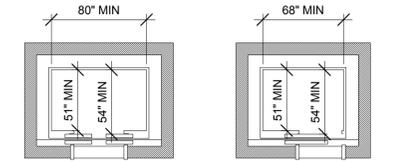
SECTION 406 CURB RAMPS

1. CURB RAMPS SHALL NOT BE STEEPER THAN 1:12.
2. COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 1:20. THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALK, GUTTERS AND STREETS SHALL BE AT THE SAME LEVEL.
3. WHERE PROVIDED, CURB RAMP FLARES SHALL NOT BE STEEPER THAN 1:10.
4. CURB RAMPS SHALL BE 36 INCHES MINIMUM IN WIDTH, EXCLUSIVE OF FLARED SIDES.
5. LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS. THE CLEAR LENGTH OF THE LANDING SHALL BE 36 INCHES MINIMUM, THE CLEAR WIDTH OF THE LANDING SHALL BE AT LEAST AS WIDE AS THE CURB RAMP, EXCLUDING FLARED SIDES, LEADING TO THE LANDING.



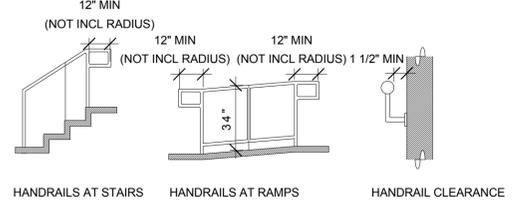
SECTION 407 ELEVATORS

1. CALL BUTTONS AND KEYPADS AT ELEVATOR LANDINGS SHALL BE LOCATED WITHIN ONE OF THE REACH RANGES SPECIFIED IN SECTION 308, MEASURED TO THE CENTERLINE OF THE HIGHEST OPERABLE PART.
2. A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305 SHALL BE PROVIDED AT CALL CONTROLS.
3. VISIBLE HALL SIGNAL FIXTURES SHALL BE CENTERED AT 72 INCHES MINIMUM ABOVE THE FLOOR.
4. INSIDE DIMENSIONS OF ELEVATOR CARS SHALL COMPLY WITH THE DIAGRAMS BELOW.



SECTION 505 HANDRAILS

1. HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS.
2. TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES MINIMUM AND 38 INCHES MAXIMUM VERTICALLY ABOVE STAIR NOSINGS, RAMP SURFACES AND WALKING SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE STAIR NOSINGS, RAMP SURFACES AND WALKING SURFACES.
3. CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACE AND ADJACENT SURFACES SHALL BE 1-1/2" INCHES MINIMUM.
4. RAMP HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING 12 INCHES MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR FLOOR, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN.
5. AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES MINIMUM BEGINNING DIRECTLY ABOVE THE LANDING NOSING. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.
6. AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE EQUAL TO ONE TREAD DEPTH BEYOND THE BOTTOM TREAD NOSING. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.
7. HANDRAIL EXTENSION DIMENSION IS FOR STRAIGHT RAIL ONLY. DIMENSION DOES NOT INCLUDE RADIIUSED CORNERS.



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ACCESSIBILITY NOTES (CONTINUED)

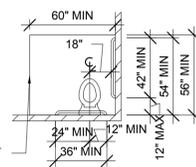
PUBLIC TOILET ROOMS

SECTION 603 TOILET AND BATHING ROOMS

1. A TURNING SPACE COMPLYING WITH SECTION 304 SHALL BE PROVIDED WITHIN THE ROOM.
2. CLEAR FLOOR SPACES, CLEARANCES AT FIXTURES AND TURNING SPACES SHALL BE PERMITTED TO OVERLAP.
3. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE FOR ANY FIXTURE. EXCEPTION: WHERE THE ROOM IS FOR INDIVIDUAL USE AND A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305 IS PROVIDED WITHIN THE ROOM BEYOND THE ARC OF THE DOOR SWING.

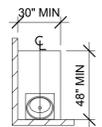
SECTION 604 WATER CLOSETS AND TOILET COMPARTMENTS

1. THE WATER CLOSET SHALL BE LOCATED WITH A WALL OR PARTITION TO THE REAR AND ONE SIDE.
2. THE CENTERLINE OF THE WATER CLOSET SHALL BE 18 INCHES FROM THE SIDE WALL OR PARTITION.
3. A CLEARANCE AROUND A WATER CLOSET 60 INCHES MINIMUM, MEASURED PERPENDICULAR FROM THE SIDE WALL, AND 56 INCHES MINIMUM, MEASURED PERPENDICULAR FROM THE REAR WALL, SHALL BE PROVIDED.
4. THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET, ASSOCIATED GRAB BARS, PAPER DISPENSERS, SANITARY NAPKIN RECEPTACLES, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE AT OTHER FIXTURES AND THE TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE WITHIN THE REQUIRED WATER CLOSET CLEARANCE.
5. THE HEIGHT OF THE WATER CLOSET SEATS SHALL BE 17 INCHES MINIMUM TO 19 INCHES MAXIMUM ABOVE THE FLOOR, MEASURED TO THE TOP OF THE SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION.
6. GRAB BARS SHALL BE PROVIDED ON THE REAR WALL AND ON THE SIDE WALL CLOSEST TO THE WATER CLOSET.
7. FLUSH CONTROLS SHALL BE ON THE OPEN SIDE OF THE WATER CLOSET.



SECTION 606 LAVATORIES AND SINKS

1. A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305, POSITIONED FOR FORWARD APPROACH, SHALL BE PROVIDED. KNEE AND TOE CLEARANCE SHALL BE PROVIDED. THE DIP OF THE OVERFLOW SHALL NOT BE CONSIDERED IN DETERMINING KNEE AND TOE CLEARANCES.
2. THE FRONT OF LAVATORIES AND SINKS SHALL BE 34 INCHES MAXIMUM ABOVE THE FLOOR, MEASURED TO THE HIGHER OF THE RIM OR COUNTER SURFACE.
3. WATER SUPPLY AND DRAINPIPPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.



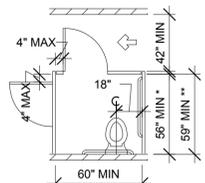
SECTION 609 GRAB BARS

1. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1 1/2 INCHES. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS OF THE GRAB BAR SHALL BE 1 1/2 INCHES MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE THE GRAB BAR SHALL BE 12 INCHES MINIMUM. EXCEPTION: THE SPACE BETWEEN GRAB BARS AND SHOWER CONTROLS, SHOWER FITTINGS, AND OTHER GRAB BARS ABOVE THE GRAB BAR SHALL BE PERMITTED TO BE 1 1/2 INCHES MINIMUM.
2. GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 84 INCHES ABOVE THE FLOOR MEASURED TO THE CENTERLINE OF THE GRAB BAR.
3. REINFORCING FOR FUTURE GRAB BARS SHALL EXTEND BEYOND THE GIVEN GRAB BAR LENGTH AND ALLOW FOR MOUNTING WITHIN THE REQUIRED MOUNTING RANGES. SEE #2 ABOVE
4. ALLOW FOR INCREASED REINFORCING AT FOLD-UP GRAB BARS.



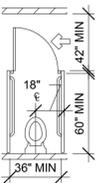
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT

1. PER NYCBC, AT LEAST ONE WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT SHALL BE PROVIDED.
2. FOR WALL HUNG WATER CLOSETS, MINIMUM COMPARTMENT SIZE IS 60 INCHES BY 56 INCHES.
3. FOR FLOOR MOUNTED WATER CLOSETS, MINIMUM COMPARTMENT SIZE IS 60 INCHES BY 59 INCHES.
4. COMPARTMENT DOORS SHALL BE LOCATED IN THE FRONT PARTITION OR IN THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET. COMPARTMENT DOORS SHALL NOT SWING INTO THE REQUIRED MINIMUM AREA OF THE COMPARTMENT.
5. GRAB BARS SHALL BE PROVIDED.



AMBULATORY ACCESSIBLE TOILET COMPARTMENT

1. PER NYCBC, WHEN THE COMBINED TOTAL WATER CLOSET COMPARTMENTS AND URINALS PROVIDED IS SIX OR MORE, AT LEAST ONE AMBULATORY ACCESSIBLE COMPARTMENT SHALL BE PROVIDED.
2. THE MINIMUM AREA SHALL BE 60 INCHES BY 36 INCHES.
3. COMPARTMENT DOORS SHALL NOT SWING INTO THE REQUIRED MINIMUM AREA OF THE COMPARTMENT.
4. GRAB BARS SHALL BE PROVIDED.



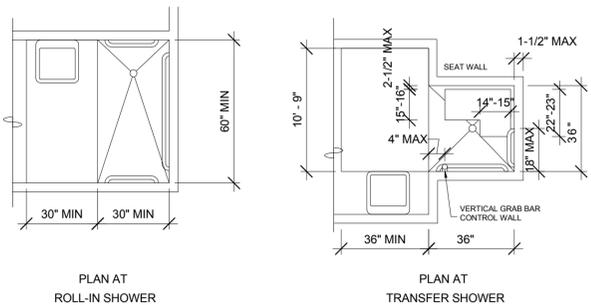
RESIDENTIAL BATHROOMS

BATHROOMS IN RESIDENTIAL BUILDINGS

1. FOR ALL ADAPTABLE TYPE B BATHROOMS IN RESIDENTIAL BUILDINGS GRAB BARS ARE NOT REQUIRED WHERE APPROPRIATE REINFORCING IS PROVIDED AND LOCATED FOR FUTURE GRAB BAR INSTALLATION.
2. ALL LAVATORIES ARE TO BE WALL HUNG WITH REMOVABLE VANITY BELOW.
3. FOR GRAB BAR HEIGHTS SEE "MOUNTING HEIGHTS" ON PREVIOUS PAGE.

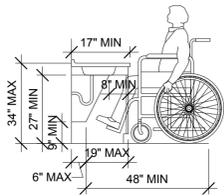
BATHROOMS WITH SHOWERS

1. SEE FOLLOWING DIAGRAMS FOR SHOWER CLEARANCES.
2. SINK PERMITTED IN CLEAR FLOOR SPACE AT SHOWER CONTROL END FOR ROLL-IN SHOWER PER ANSI A117.1 SECTION 608.2.2.
3. THRESHOLDS AT ROLL-IN AND TRANSFER TYPE SHOWERS SHALL BE 1/2" MAX. IN HEIGHT.



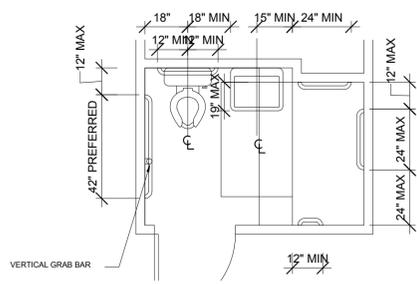
SECTION AT REMOVABLE VANITY CABINET

1. ALL VANITY CABINETS IN RESIDENTIAL DWELLING UNITS TO BE REMOVABLE.
2. INSULATED PIPE PROTECTION TO BE INSTALLED WHEN CABINET IS REMOVED.
3. MUST PROVIDE FINISHED FLOOR AND WALLS WHERE CABINET IS REMOVED.
4. 30" X 48" CLEAR FLOOR SPACE IS REQUIRED TO BE CENTERED ON SINK
5. ONLY 19" OF CLEAR FLOOR SPACE MAY EXTEND UNDER SINK



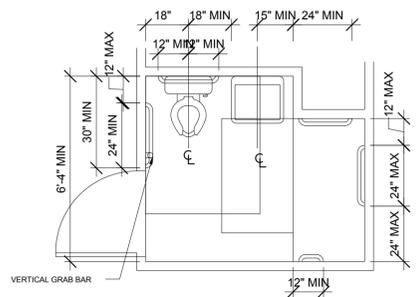
BATHROOM CONFIGURATION 1

1. PROVIDE A 66" X 48" CLEAR FLOOR SPACE AT TOILET ONLY TO BE OVERLAPPED BY SINK PROVIDED THERE IS AN 18" MINIMUM SPACE FROM SINK TO CENTERLINE OF TOILET
2. PROVIDE A 30" X 48" CLEAR FLOOR SPACE CENTERED ON SINK
3. PROVIDE A 30" X 48" CLEAR FLOOR SPACE AT BATH, ALIGNED WITH SHOWER CONTROL END; TO BE OVERLAPPED ONLY BY SINK UP TO A MAX. OF 19".



BATHROOM CONFIGURATION 2:

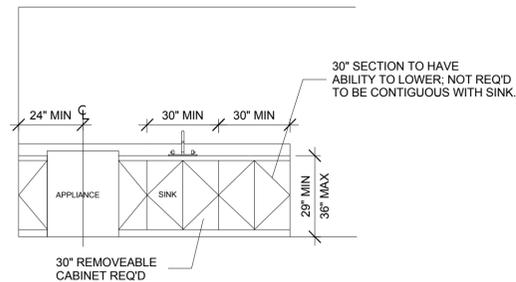
1. PROVIDE A 56" X 48" CLEAR FLOOR SPACE AT TOILET ONLY TO BE OVERLAPPED BY SINK PROVIDED THERE IS AN 18" MINIMUM SPACE FROM SINK TO CENTERLINE OF TOILET
2. PROVIDE A 30" X 48" CLEAR FLOOR SPACE CENTERED ON SINK
3. PROVIDE A 30" X 48" CLEAR FLOOR SPACE AT BATH, ALIGNED WITH SHOWER CONTROL END; TO BE OVERLAPPED ONLY BY SINK UP TO A MAX. OF 19".



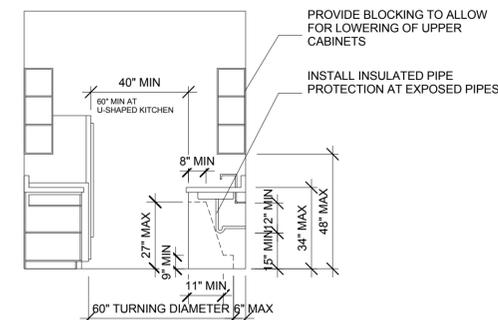
RESIDENTIAL KITCHENS

1. PROVIDE 30" REMOVABLE CABINET UNDER SINK WITH FINISHED WALLS, FLOOR AND SIDE CABINETS, AND INSULATED PIPE PROTECTION.
2. PROVIDE ADDITIONAL 30" REMOVABLE CABINET TO BE USED AS WORK SURFACE AT 34" ABOVE FINISHED FLOOR, OR PROVIDE A COUNTER ADJUSTABLE BETWEEN 29" AND 36" ABOVE FINISHED FLOOR.
3. PROVIDE 30" X 48" CLEAR FLOOR SPACE CENTERED ON EACH APPLIANCE FOR PARALLEL APPROACH
4. PROVIDE A SELF-CLEANING OVEN.
5. PROVIDE A SELF-DEFROSTING FREEZER WHEN LESS THAN 100% OF FREEZER IS WITHIN 54" REACH RANGE ABOVE FINISHED FLOOR.

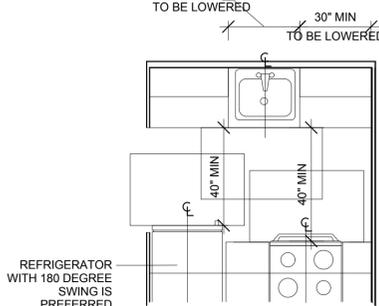
ELEVATION AT CABINETS



SECTION AT REMOVABLE SINK CABINET



PARALLEL WALL KITCHENS



504 DESIGNATED UNITS

| FLOOR | APARTMENT DISTRIBUTION | | | | | | | | | | DU | DU UFAS | TOTAL DU |
|-----------------------|------------------------|-------------|------------|-------------|------------|-------------|------------|-------------|-----------|-------------|-------------|----------|-----------|
| | 0 BDRM | 0 BDRM UFAS | 1 BDRM | 1 BDRM UFAS | 2 BDRM | 2 BDRM UFAS | 3 BDRM | 3 BDRM UFAS | 4 BDRM | 4 BDRM UFAS | | | |
| CELLAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1ST FLOOR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2ND FLOOR | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 |
| 3RD FLOOR | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 4 | 1 | 5 |
| 4TH FLOOR | 0 | 1 H/V* | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 4 | 1 | 5 |
| 5TH FLOOR | 1 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 5 | 0 | 5 |
| 6TH FLOOR | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 4 | 1 | 5 |
| 7TH FLOOR | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 3 | 0 | 3 |
| 8TH FLOOR | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 3 | 0 | 3 |
| ROOF | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 4 | 1 | 6 | 0 | 10 | 1 | 5 | 1 | 2 | 0 | 27 | 3 | 30 |
| % DISTRIBUTION | 17% | | 20% | | 37% | | 20% | | 7% | | 100% | | |

* HEARING/VISION IMPAIRED

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ACCESSIBILITY NOTES II



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| SECTION | DESCRIPTION | PERMITTED/REQUIRED | PROVIDED |
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| 2014 NYC Building Code Analysis | | | |
| Address 3365 Third Ave Bronx, NY 10456 | | Block: 2370 Lot: 33 | |
| CHAPTER 3: USE AND OCCUPANCY CLASSIFICATION | | | |
| 304.1 | Group B | This group shall include, among others, the use of a building or structure, or a portion thereof, for office, professional, service-type transactions, or for conducting public or civic services, including the incidental storage of records and accounts, and the incidental storage of limited quantities of stocks of goods for office use or purposes. | Artist Studio, without sleeping accommodation, Non profit; Complies |
| 310.1.2 | Group R-2 | This group shall include, but not be limited to, the following: Adult homes Apartment Houses Apartment Hotels (nontransient) Convents and monasteries Student Apartments Such occupancy shall be subject to the New York State Multiple Dwelling Law. | Apartment house provided; Complies Class A Multiple Dwelling provided; Complies. |
| CHAPTER 4: SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY | | | |
| SECTION 403: HIGH-RISE BUILDINGS | | | |
| 403.2.1 | Types of construction | High rise building - a building with an occupied floor located more than 75'-0" above the lowest level of fire department access. | Height = 68'-8" Type IB, Not applicable |
| CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS; SEPARATION OF OCCUPANCIES | | | |
| SECTION 501: GENERAL | | | |
| 501.2 | Address Identification | Approved numbers or addresses shall be provided for new buildings and shall be placed in such a position as to be clearly visible and legible from the street fronting the property. Address numbers shall be Arabic numerals or alphabet letters and shall be a minimum 4 inches in height and stroke of minimum 0.5 inch of a contrasting color to the background itself. | Complies, Address number to be min. 4" H, See A200 |
| 501.3.1 | Fire Department Frontage | Every building shall have 8 percent of the total perimeter of the building adjoining a street or frontage space. Building perimeter shall be measured at that story having the maximum enclosed floor area; buildings provided with a front yard or front setback in compliance with NYC Zoning Resolution shall be considered as adjoining the street or frontage space. | Building perimeter: 445'-0" Required: 35.6" 49' 11" Provided; Complies. |
| 501.3.2 | Fire Department Building Access | Provisions shall be made for access by the Fire Department to every building in accordance with this section. | Complies, See A100 & A103 |
| SECTION 503: GENERAL HEIGHT AND AREA LIMITATIONS | | | |
| 503.1 | General | The height and area for buildings shall be governed by the intended use and occupancy of the building and shall not exceed the limits in Table 503, except as modified. Per Table 503 for Type IB Construction: R-2: Stories allowed = UL (Unlimited) B: Stories allowed = UL (Unlimited) R-2: Area allowed = UL (Unlimited) B: Area allowed = UL (Unlimited) | Stories provided = 8 < unlimited Area provided = 50,394 sq.ft. < unlimited Complies. |
| SECTION 504: HEIGHT MODIFICATIONS | | | |
| 504.3 | Rooftop Structures | Rooftop structures shall not be included in the height of the building or considered an additional story unless the aggregate area of all such structures exceeds 33 1/3 percent of the area of the roof of the building upon which they are erected. | Total Area Rooftop Structures: 746.26 sq.ft. Total Area Roof: 4688.65 sq. ft. 746.26/4688.65= 16% Complies. |
| SECTION 508: MIXED USE AND OCCUPANCY | | | |
| 508.4.4 | Separation | Individual occupancies shall be separated from adjacent occupancies in accordance with table 508.4 B to R: 1 HR | 2 hr Provided; Complies. |
| SECTION 509: INCIDENTAL USES | | | |
| 509.1 | Occupancy classification | Incidental uses listed in Table 509 and located within single occupancy or mixed occupancy buildings shall comply with the provisions of this section. Incidental uses are ancillary functions associated with a given occupancy that generally pose a greater level of risk to that occupancy and are limited to those uses listed in Table 509. | Low Pressure Steam or water boiler; laundry room > 100 sq ft; Water and linen collection > 100 sq ft; Fire pump in non high rise building; Complies. See A101, A104 |
| 508.4.1 | Separation | Incidental use areas shall be separated or protected, or both, from all other occupancies in accordance with Table 509 Incidental use area Laundry Room greater than 100 sq ft: 1 hour or auto sprk system Waste Room greater than 100 sq ft: 1 hour of auto sprk system Fire Pump in non high rise: 2 hr or 1 hour with auto sprk system | Auto sprinkler provided Separation Provided Auto Sprk System 2 hours Auto Sprk System; Complies. See Floor Plans |
| SECTION 510: SPECIAL PROVISIONS | | | |
| 510.1 | Separation of different tenancies | Spaces or dwelling units occupied by different tenants shall be separated by fire barriers having at least 1-hour fire-resistance ratings. | Complies, See G-011 and Enlarged Floor Plans |
| CHAPTER 6: TYPES OF CONSTRUCTION | | | |
| SECTION 602: CONSTRUCTION CLASSIFICATION | | | |
| 602.1 | General | Buildings and structures erected or to be erected shall be classified in one of the five construction types defined in Sections 602.2 through 602.5. The building elements shall have a fire-resistance rating not less than that specified in Table 601 and exterior walls shall have a fire-resistance rating not less than that specified in Table 602. | Type IB construction provided; Complies. |

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| Table 601 | Fire-Resistance Rating Requirements for Building Elements | Required by Table: Structural frame = 2 hour Exterior bearing walls = 2 hour Interior bearing walls = 2 hour Interior non-bearing walls and partitions = 0 hour Floor construction = 2 hour Roof construction = 1 hour | 2 hour provided; Complies. 2 hour provided; Complies. 2 hour provided; Complies. 0 hour provided; Complies. 2 hour provided; Complies. 1 hour provided; Complies. |
| Table 602 | Fire-Resistance Rating Requirements for Exterior Walls based on Fire Separation Distance | Required by Table: less than 5 feet = 1 hour 5 feet or greater but less than 10 feet = 1 hour 10 feet or greater but less than 30 feet = 1 hour 30 feet or greater = 0 hour | 2 hour provided; Complies. N/A 2 hour provided; Complies. 0 hour provided; Complies. |
| CHAPTER 7: FIRE-RESISTANCE RATED CONSTRUCTION | | | |
| SECTION 703: FIRE-RESISTANCE RATINGS AND FIRE TESTS | | | |
| 703.2.3 | Restrained classification | Fire-resistance-rated assemblies tested under ASTM E 119 shall not be considered to be restrained unless evidence satisfactory to the commissioner is furnished by the registered design professional showing that the construction qualifies for a restrained classification in accordance with ASTM E 119. Restrained construction shall be identified on the plans. | All construction is unrestrained; Complies. |
| SECTION 704: FIRE-RESISTANCE RATING OF STRUCTURAL MEMBERS | | | |
| 704.3 | Protection of primary structural frame other than columns | Members of the primary structural frame other than columns that are required to have a fire-resistance rating and support more than one floor or one floor and roof, or support a load-bearing wall or a nonload-bearing wall more than one story high, shall be provided individual encasement protection by protecting them on all sides for their full length, including connections to other structural members, with materials having the required fire-resistance rating. | Cast in Place Concrete, Complies |
| SECTION 705: EXTERIOR WALLS | | | |
| 705.8.1 | Allowable area of openings | The maximum area of unprotected or protected openings permitted in an exterior wall in any story shall not exceed the values set forth in Table 705.8 | See below. Complies |
| Table 705.8 | Maximum Area of Exterior Wall Openings | Unprotected, sprinklered 0 to 3 ft = Not permitted 3ft < X < 5ft = 15% 5ft < X < 10ft = 25% 10ft < X < 15ft = 45% 15ft < X < 20ft = 75% 20ft < X < 25ft = No limit 25ft < X < 30ft = No limit 30 ft < X = No limit | N/A N/A N/A N/A N/A N/A Complies |
| 704.11 | Parapets | Parapets shall be provided on exterior walls of buildings. Exception 3: Walls that terminate at roofs of not less than 2 hour fire-resistance-rated construction. | 2 hour construction provided. Complies. |
| 704.11.1 | Parapet construction | Parapets shall have the same fire-resistance rating as that required for the supporting wall, and on any side adjacent to a roof surface, shall have noncombustible faces for the uppermost 18 inches, including counterflashing and coping materials. The height of the parapet shall not be less than 30 inches above the point where the roof surface and the wall intersect. | 38" parapet above roof surface provided; Complies. |
| SECTION 708: SHAFT ENCLOSURES | | | |
| 708.4 | Fire-resistance rating | Shaft enclosures shall have a fire-resistance rating of not less than 2 hours where penetrating three stories or more and not less than one hour where penetrating less than three stories. The number of stories connected by the shaft enclosure shall include any basements or cellars, but not any mezzanines. | 2 hour provided; Complies. |
| 708.5 | Continuity | Where the roof construction is of noncombustible materials, shaft enclosure walls shall extend from the top of the floor/ceiling assembly below to the underside of the floor or roof slab or deck above and shall be securely attached thereto. These walls shall be continuous through concealed spaces. Hollow vertical spaces within the shaft enclosure construction wall shall be firestopped at every floor level. Exception: A shaft enclosure of a refuse or laundry chute shall extend through combustible or noncombustible roof construction at least 6 feet above the roof. | Complies. See A-420; Complies. |
| 708.13.1 | Refuse and laundry chute enclosures | A shaft enclosure containing a refuse or laundry chute shall not be used for any other purpose and shall have a fire-resistance rating of 2 hours. Openings into the shaft, including those from access rooms and termination rooms, shall be protected in accordance with this section and Section 715. Openings into chutes shall not be located in exit access corridors. Opening protectives shall be self-closing. | 2 hour rating provided. Complies. |
| 708.13.2 | Materials | A shaft enclosure containing a refuse or laundry chute shall be constructed of noncombustible materials. | Cast in Place concrete provided; Complies. |
| 708.13.3 | Refuse and laundry chute access rooms | Access openings for refuse and laundry chutes shall be located in dedicated rooms or compartments completely enclosed by construction that has a fire-resistance rating of not less than 2 hours. Openings into the access room shall be protected by opening protectives having a fire protection rating of not less than 1-1/2 hours and shall be self-closing. Openings may be automatic-closing upon the detection of smoke provided that the storage of refuse, including recyclables, or laundry is not permitted in such access rooms. | 90 min. self closing doors provided. See A-605; Complies. |

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| 708.13.4 | Termination room | Re-use and laundry chutes shall discharge into an enclosed room completely separated from the remainder of the building by construction that has a fire-resistance rating of not less than 3 hours. Openings into the termination room shall be protected by opening protectives having a fire protection rating of not less than 1-1/2 hours and shall be self-closing. | 3 hr wall, ceiling and floor provided. Complies. |
| 708.13.6 | Automatic fire sprinkler system | An approved automatic fire sprinkler system shall be installed in accordance with Section 903.2.10.2. | Complies. |
| SECTION 712: HORIZONTAL ASSEMBLIES | | | |
| 712.3 | Fire-resistance rating | The fire-resistance rating of floor or roof assemblies shall not be less than that required by the building type of construction. Where the floor assembly separates mixed occupancies, the assembly shall have a fire-resistance rating of not less than that required by Section 508.4 based on the occupancies being separated. Floor assemblies separating dwelling units in Group I-1 or R occupancies shall be a minimum of 1 hour fire-resistance rated construction. | 2 hr provided per BC 601. 3 hr provided at Compactor Room; Complies. |
| SECTION 715: OPENING PROTECTIVES | | | |
| 715.2 | Fire Resistance-rating glazing | Fire-resistance-rated glazing tested as part of a fire-resistance-rated wall assembly in accordance with ASTM E 119 or UL 263 and labeled in accordance with Section 703.5 shall be permitted in fire doors and fire window assemblies in accordance with their listings and shall not otherwise be required to comply with this section | Complies. |
| 715.3 | Fire door and shutter assemblies | Approved fire door and fire shutter assemblies shall be constructed of any material or assembly of component materials that conforms to the test requirements of Section 715.3.1, 715.3.2 or 715.3.3 and the fire protection rating indicated in Table 715.4. | Complies. |
| Table 715.4 | Fire door and fire shutter fire protection ratings | Building element: Fire wall (2 hour) Fire barrier (1 hour) Fire partition corridor (1 hour) | Required rating: 1 1/2 hour 1 hour 3/4 hour |
| 715.4.4.1 | Door in Exist enclosures Glazing in doors | Fire-protection-rated glazing in excess of 100 square inches shall be permitted in fire door assemblies when tested as components of the door assemblies and not as glass lights, and shall have a maximum transmitted temperature rise of 450 F in accordance with Section 715.4.4. | Fire-Resistance-rate glass provided. Complies. |
| 715.4.6 | Labeled protective assemblies | Fire door assemblies shall be labeled by an approved agency. The labels shall comply with NFPA 80, and shall be permanently affixed to the door or frame. | Complies. |
| 715.4.7.1 | Glazing Material Size Limitations | Fire-protection-rated glazing conforming to the opening protection requirements in Section 715.4 shall comply with the size limitations of NFPA 80. Exceptions: 1.Fire-protection-rated glazing in fire doors located in fire walls shall be prohibited except that where serving in a fire door in a horizontal exit, a self-closing swinging door shall be permitted to have a vision panel of not more than 100 square inches (0.065 m2) without a dimension exceeding 10 inches (254 mm). 2.Fire-protection-rated glazing shall not be installed in fire doors having a 1 1/2-hour fire protection rating intended for installation in fire barriers, unless the glazing is not more than 100 square inches (0.065 m2) in area. | See Door Schedule; Complies See Door Schedule; Complies |
| 715.3.7 | Door closing | Fire doors shall be self-closing or automatic-closing in accordance with this section. | Complies. |
| SECTION 716: DUCT AND AIR TRANSFER OPENINGS | | | |
| Table 716.3.2.1 | Fire Damper rating | Type of penetration Less than 3 hr assemblies 3 hr or greater assemblies | Min. damper rating (hrs) 1.5 3 |
| CHAPTER 8: INTERIOR FINISHES | | | |
| SECTION 803: WALL AND CEILING FINISHES | | | |
| Table 803.1 | Interior wall and ceiling finish req'ts by occupancy | For sprinklered buildings: Group B R-2 | Vert. exits & Passageways Exit corridors & exitways Rooms and Enclosed spaces Class B Class B Class C |
| CHAPTER 9: FIRE PROTECTION SYSTEMS | | | |
| SECTION 903: AUTOMATIC SPRINKLER SYSTEMS | | | |
| 903.2.8 | Automatic sprinkler systems in Group R | An automatic sprinkler system shall be installed in Group R fire areas. An automatic sprinkler system shall be installed throughout buildings with a main use or dominant occupancy of Group R. | Sprinkler system provided. Complies. |
| 903.2.11.6 | Automatic sprinkler systems in rubbish and linen chutes | An automatic sprinkler system shall be installed at the top of rubbish and linen chutes, in chute access rooms, and in their terminal rooms. Chutes extending through three or more floors shall have additional sprinkler heads installed within such chutes at alternating floors. Chute sprinklers shall be accessible for servicing. | Sprinkler system provided. Complies. |
| 903.2.11.12 | Automatic sprinkler systems in refuse collection and disposal areas | An automatic sprinkler system shall be installed throughout all areas used for the storage and sorting of refuse and recyclables. | Sprinkler system provided. Complies. |
| 903.2.11.13 | Automatic sprinkler systems in laundry drying areas | An automatic sprinkler system shall be installed in spaces which two or more clothes drying machines are installed. Sprinkler heads shall be spaced to cover the areas 5 feet on all sides of the drying machines. | Sprinkler system provided. Complies. |

3365 THIRD AVE

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| No. | Date | Revision |
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10/19/15 DOB SUBMISSION
08/13/15 BLDS SUBMISSION

| No. | Date | Submission |
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Title:

BUILDING ANALYSIS I



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| 903.6 | Painting of dedicated sprinklers | Dedicated sprinkler piping shall be painted and such painting certified in accordance with Sections 903.6.1 through 903.6.5. In addition to painting, sprinkler piping may also be identified by lettered legend in accordance with ANSI A13.1. Where the piping is required to be listed and labeled such painting shall not obscure such labeling. | Complies. |
| SECTION 907: FIRE ALARM AND DETECTION SYSTEMS | | | |
| 907.2.9 | Group R-2 | An automatic fire alarm system without alarm notification shall be provided in accordance with this section in Group R-2 occupancies, other than student apartments, where such occupancy satisfies any one of the following conditions: 1. Any dwelling unit is located 3 or more stories above the lowest level of exit discharge, including dwelling units in penthouses in any area; 2. Any dwelling unit is located more than 1 story below the highest level of exit discharge of exits serving the dwelling unit; or 3. The building contains more than 16 dwelling units. Actuation of smoke detectors shall not initiate a signal to alarm notification appliances. The activation of any detector required by this section shall initiate a signal at a central station or a constantly attended location. Smoke detectors shall be located as follows: 1. In each mechanical equipment, electrical, transformer, telephone equipment or similar room, greater than 75 square feet in area. 2. In air distribution systems in accordance with Section 606 of the NYC Mech. Code. 3. In elevator machine rooms and in elevator lobbies. | See FA Drawings. Complies. |
| 907.2.11.1 | Smoke alarms in R-2, R-3 and I-1. | Single- or multiple-station smoke alarms shall be installed and maintained in Groups R-2, R-3, and I-1, regardless of occupant load at all of the following locations within a dwelling unit: 1. On a ceiling or wall outside each room used for sleeping purposes within 15 feet from the door to such room. 2. In each room used for sleeping purposes. 3. In each story within a dwelling unit, including below-grade stories and penthouses of any area, but not including crawl spaces and uninhabitable attics. In dwellings or dwelling units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the the adjacent lower level provided that the lower level is less than one full story below the upper level. | See A-100 to A-104; Complies. |
| 907.2.11.2 | Power source | Required smoke alarms shall receive their primary power from a dedicated branch circuit or the unswitched portion of a branch circuit also used for power and lighting, and shall be equipped with a battery backup. Smoke alarms shall emit a signal when the batteries are low. Wiring shall be permanent and without a disconnecting switch other than as required for over-current protection. | Complies. |
| 907.2.11.3 | Interconnection | Where more than one smoke alarm or detector is required to be installed within an individual dwelling unit in Group R-2, the smoke alarms or detectors shall be interconnected in such a manner that the activation of one alarm or detector will activate all of the alarms or detectors in the unit. The alarm or detector shall be clearly audible in all bedrooms over background noise levels with all intervening doors closed. | Complies. |
| 907.2.10.5 | Group R-2 occupancy | Smoke alarms shall be provided with the capability to support visible alarm notification appliances in accordance with ANSI A117.1. | Complies. |
| SECTION 908: EMERGENCY ALARM SYSTEMS | | | |
| 908.7.1.1.1 | Required locations within a dwelling unit | Carbon monoxide alarms or detectors shall be located within dwelling units as follows: 1. Outside of any room used for sleeping purposes, within 15 feet of the entrance to such room. 2. In any room used for sleeping purposes. 3. On any story within a dwelling unit, including below-grade stories and penthouses of any area, but not including crawl spaces and uninhabitable attics. | See A-100 to A-104; Complies. |
| CHAPTER 10: MEANS OF EGRESS | | | |
| SECTION 1003: GENERAL MEANS OF EGRESS | | | |
| 1003.2 | Ceiling height | The means of egress shall have a ceiling height of not less than 7 feet, 6 inches. Exceptions: 1. Ceilings that are permitted to be less than 7 feet, 6 inches in accordance with Section 1208.2. 2. Ceilings of dwelling units and sleeping units within residential occupancies in accordance with Section 1208.2. 3. Allowable projections in accordance with Section 1003.3. 4. Stair headroom in accordance with Section 1009.2. 5. Door height in accordance with Section 1008.1.1.3 6. Ramp headroom in accordance with Section 1010.5.2. 7. The clear height of floor levels in vehicular and pedestrian traffic areas in parking garages in accordance with Section 406.2.2. 8. Areas above and below mezzanine floors in accordance with Section 505.1. | See A-110 to A-114; Complies. |
| 1003.3.1 | Protruding Objects - Headroom | Protruding objects are permitted to extend below the minimum ceiling height required by Section 1003.2 provided a minimum headroom of 84 inches shall be provided for any walking surface including walks, corridors, aisles and passageways. Not more than 50 percent of ceiling area of a means of egress shall be reduced in height by protruding objects. Exception: Door Closers and stops shall not reduce headroom to less than 78" inches. A barrier shall be provided where the vertical clearance is less than 80 inches high. The leading edge of such barrier shall be located 27 inches maximum above the floor. | See A-110 to A-114; Complies. |
| SECTION 1007: ACCESSIBLE MEANS OF EGRESS | | | |
| 1007.1 | Accessible means of egress required | Accessible spaces shall be provided with not less than one accessible means of egress. Where more than one means of egress is required by Section 1015.1 or 1021.1 from any accessible space, at least two accessible means of egress shall be provided to each accessible portion of the space. | Elevator provided. Complies. |
| 1007.3 | Exit stairways | Exception 2: The clear width of 48 inches between handrails and the area of rescue assistance is not required at exit stairways in buildings or facilities equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2. | Automatic Sprinkler Provide throughout Building; Complies. |
| 1003.6 | Means of egress continuity | The path of egress travel along a means of egress shall not be interrupted by any building element other than a means of egress component as specified in this chapter. Obstructions shall not be placed in the required width of a means of egress except projections permitted by this chapter. The required capacity of a means of egress system shall not be diminished along the path of egress travel. | Complies. |
| SECTION 1004: OCCUPANT LOAD | | | |
| 1004.1 | Design occupant load | In determining means of egress requirements, the number of occupants for whom means of egress facilities shall be provided shall be established by the largest number computed in accordance with Section 1004.1.1, unless otherwise permitted by Section 1004.1.2, 1004.1.3 or 1004.2. Where occupants from accessory areas egress through a primary space, the calculated occupant load for the primary space shall include the total occupant load of the primary space plus the number of occupants egressing through it from the accessory area. | See Exit Count on G-010; Complies |
| 1004.4 | Exiting from multiple levels | Where exits serve more than one floor, only the occupant load of each floor considered individually shall be used in computing the required capacity of the exits at that floor, provided that the exit capacity shall not decrease in the direction of egress travel. | See Exit Count on G-010; Complies. |
| 1004.8 | Outdoor areas | Yards, patios, courts and similar outdoor areas accessible to and usable by the building occupants shall be provided with means of egress as required by this chapter. The occupant load of such outdoor areas shall be determined by the design professional subject to the approval of the commissioner. Where outdoor areas are to be used by persons in addition to the occupants of the building, and the path of egress travel from the outdoor areas passes through the building, means of egress requirements for the building shall be based on the sum of the occupant loads of the building plus the outdoor areas. | See Egress plans on G-011; Complies. |
| SECTION 1005: EGRESS WIDTH | | | |
| 1005.1 | Minimum required egress width | The means of egress width shall not be less than that required by this section. The total width of means of egress in inches (mm) shall not be less than the total occupant load served by the means of egress multiplied by 0.3 inches (7.62 mm) per occupant for stairways and by 0.2 inches (5.08 mm) per occupant for other egress components. The width shall not be less than specified elsewhere in this code. Multiple means of egress shall be sized such that the loss of any one means of egress shall not reduce the available capacity to less than 50 percent of the required capacity. The maximum capacity required from any story of a building shall be maintained to the termination of the means of egress. | See Exit Count on G-010; Complies. |
| 1005.2 | Door encroachment | Doors, when fully opened, and handrails shall not reduce the required means of egress width by more than 7 inches (178 mm). Doors in any position shall not reduce the required width by more than one-half. Other nonstructural projections such as trim and similar decorative features shall be permitted to project into the required width a maximum of 1/2 inches (38 mm) on each side. Exception: The restrictions on a door swing shall not apply to doors within individual dwelling units and sleeping units of Group R-2 and dwelling units of Group R-3 | See A-400; Complies. |
| SECTION 1006: MEANS OF EGRESS ILLUMINATION | | | |
| 1006.1 | Illumination required | Exits, exit discharges and public corridors shall be illuminated at all times by either daylight or electric lighting fixtures. Exit access components shall be illuminated by either daylight or electric lighting fixtures at all times that the space served by the exit access component is occupied. Exceptions: 3. Dwelling units and sleeping units in Groups I-1, R-1, R-2 and R-3. | See Reflected Ceiling Plans, A-110 to A-114; Complies. |
| 1006.2 | Illumination level | The means of egress illumination level shall not be less than 1 foot-candle (11 lux) at the walking surface level. | Complies. |
| 1006.2.1 | Sensors and controls | Automatic, occupant sensor or photosensor lighting controls shall be permitted within means of egress, provided that the illumination level is not reduced to a level below the minimum requirements of Section 1006.2, and the switch controllers are equipped for fail-safe operation ensuring that if the sensor or control fails, the lighting levels will be at the levels required by Section 1006.2. | Complies. |
| 1006.3 | Illumination emergency power | The power supply for means of egress illumination shall normally be provided by the premises electrical supply. In the event of power supply failure, an emergency electrical system shall automatically illuminate the following areas: 1. Exit access corridors, passageways and aisles in rooms and spaces which required two or more means of egress. 2. Exit access corridors, exit passageways and exit stairways located in buildings required to have two or more exits. 3. Exterior egress components at other than the level of exit discharge until exit discharge is accomplished for buildings required to have two or more exits. 4. Interior exit discharge elements, as permitted in Section 1023.1 in buildings required to have two or more exits. 5. The portion of the exterior exit discharge immediately adjacent to exit discharge doorways in buildings required to have two or more exits. | See Reflected Ceiling Plans, A-110 to A-114; Complies. |
| 1007.4 | Elevators | To be considered part of an accessible means of egress, an elevator shall comply with the emergency operation and signaling device requirements of Section 2.27 of ASME A17.1 and Section 1109.6. Emergency power shall be provided in accordance with Section 2702 and 3003. Exception 2: Elevators are not required to be accessed from an area of rescue assistance or horizontal exit in building and facilities equipped throughout with an automatic sprinkler system installed in accordance with section 903.3.1.1 or 903.3.1.2 | Complies. |
| 1007.11 | Directional Signage | Direction signage indicating the location of the other means of egress and which are accessible means of egress shall be provided at the following: 1. At exits serving a required accessible space but not providing an approved accessible means of egress. 2. At elevator landings. 3. Within areas of rescue assistance. | See Signage Detail A-540; Complies. |
| SECTION 1008: DOORS, GATES AND TURNSTILES | | | |
| 1008.1.1.1 | Door width | The minimum width of each door opening shall be sufficient for the occupant load and shall provide a clear width of not less than 32 inches. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop with the door open 90 degrees. | See Exit Summary on G-010; Complies |
| 1008.1.1.3 | Height | The height of doors shall not be less than 80 inches. Exception 1: Door openings within a dwelling unit or sleeping unit shall not be less than 78 inches in height. | See Door Schedule A-605; Complies. |
| 1008.1.2.2 | Direction of swing | Doors shall swing in the direction of egress travel where serving: 1. Group F or H occupancies. 2. Rooms or spaces with an occupant load of 50 or more persons. 3. Rooms or spaces requiring more than one exit door. 4. Automatic teller machines in accordance with Section 10-160 of the Administrative Code Exception: Doors need not swing in the direction of egress travel for exterior street floor exit doors from lobbies serving only Group R-2 or R-3 occupancies. | See Egress Plan on G-011; Complies. |
| 1008.1.2.3 | Opening force | The opening force for interior side-swinging doors without closers shall not exceed a 5-pound force. | Complies. |
| 1008.1.5 | Floor Elevations | There shall be a floor or landing on each side of a door. Such floor or landing shall be at the same elevation on each side of the door. Landings shall be level except for exterior landings, which are permitted to have a slope not to exceed 0.25 unit vertical in 12 units horizontal (2-percent slope) | Complies. |
| 1008.1.6 | Landings at doors | Landings shall have a width not less than the width of the stairway or the door, whichever is greater. Doors in the fully open position shall not reduce a required dimension by more than 7 inches (178 mm). At any stairway landing, or when a door landing serves an occupant load of 50 or more, doors in any position shall not reduce the landing to less than 75 percent of its required width. Landings shall have a length measured in the direction of travel of not less than 44 inches (1118 mm). | See Stair Plan on A-400; Complies. |
| 1008.1.7 | Thresholds | Thresholds at doorways shall not exceed 0.75 inch (19.1 mm) in height for sliding doors serving dwelling units or 0.5 inch (12.7 mm) for other doors. Raised thresholds and floor level changes greater than 0.25 inch (6.4mm) at doorways shall be beveled with a slope not greater than one unit vertical in two units horizontal (50-percent slope) | See Saddle Details on A-614; Complies. |
| 1008.1.9.2 | Hardware height | Door handles, pulls, latches, locks and other operating devices shall be installed 34 inches minimum and 48 inches maximum above the finished floor. Locks used only for security purposes and not used for normal operation are permitted at any height. | See Door Schedule on A-605; Complies. |
| 1008.1.9.3 | Locks and latches | Locks and latches shall be permitted to prevent operation of doors where any of the following exists: 3. Main entrances in Occupancy Groups B, M, and S as permitted by Section 1008.1.3.5 | Complies. |
| 1008.4.1 | Entrance doors | Building entrance doors and other exterior exit doors shall be equipped with heavy duty lock sets with auxiliary latch bolts to prevent the latch from being manipulated by means other than a key. Latch sets shall have stop-work in the inside cylinder controlled by a master key only. Outside cylinders of main entrance door locks shall be operated by the tenants' key, which shall not be keyed to also open the tenants' apartment door. A light shall be provided at or near the outside of the front entranceway of the building providing not less than 5-foot candles intensity measured at the floor level for the full width of the entranceway. | Complies. |
| 1008.4.2 | Doors to dwelling units | Doors to dwelling units shall be equipped with heavy duty latch set and a heavy duty dead bolt operable by a key from the outside and a thumb-turn from the inside. Those doors shall also be equipped with a chain guard so as to permit partial opening of the door. Dwelling unit entrance doors shall also be equipped with a viewing device located so as to enable a person on the inside of the entrance door to view a person immediately outside. | Complies. |
| 1008.4.3 | Windows | All operable windows shall be equipped with sash locks designed to be operable from the inside only. Grilles lockable from the inside only may be placed on the inside or the outside of windows that are accessible from grade but that do not serve to provide access to exits. | Complies. |
| 1008.4.4 | Intercommunication system | Buildings containing eight or more dwelling units shall be provided with an intercommunication system located at the door giving access to the main entrance lobby, consisting of a device for voice communication between the occupant of each dwelling unit and a person outside the door to the main entrance lobby, and permitting such dwelling unit occupant to release the locking mechanism of said door from the dwelling unit. | Intercommunication system provided; Complies. |

3365 THIRD AVE

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| No. | Date | Revision |
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| No. | Date | Submission |
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Title:

BUILDING ANALYSIS II



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14 of **G-008.00**

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Table with columns for Section, Description, and Requirements. Includes sections for Stairways and Handrails, Exit Access, Corridors, and Accessibility.

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BUILDING ANALYSIS III

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1507 - 3365 THIRD AVE
DEPARTMENT OF BUILDINGS RESPONSIBILITY CHART

| APPLICATIONS AND ASSOCIATED FILINGS | ARCHITECT/ OWNER | CONTRACTOR | APPLICATION NO. |
|-------------------------------------|---------------------|------------|-----------------|
| TYPE 1 NEW BUILDING APPLICATION | A | P/I/S | |
| SUBSEQUENT APPLICATION-STRUCTURAL | A | P/I/S | |
| SUBSEQUENT APPLICATION-MECH/PLUMB. | A | P/I/S | |
| TYPE 2 BUILDERS PAVEMENT PLAN | A | P/I/S | |
| TYPE 2 SPRINKLER APPLICATION | A | P/I/S | |
| SEWER CONNECTION WORK FILING | A | P/I/S | |
| ELEVATOR FILING-6 | - | A/P/I/S | |
| ELECTRICAL FILING | - | A/P/I/S | |
| SD1 AND SD2 FILING | A | P/I/S | |
| CROSS CONTROL CONNECTION APPROVAL | A | P/I/S | |
| POST APPROVAL AMENDMENT (AG-BUILTS) | D | A* | |

KEY
A = FILE AND APPROVAL
P = PERMITS
I = INSPECTIONS
S = SIGN-OFF
D = DRAWINGS
C = GC TO COORD.
INSPECTIONS W/
INSPECTOR

NOTES
*CONTRACTOR TO FILE AS-BUILT DRAWINGS (BY ARCHITECT AND ENGINEERS BASED ON INFORMATION SUPPLIED BY CONTRACTOR AND **CODE SECTIONS BASED ON NYC BC 2014

| SPECIAL INSPECTION ITEMS | CODE SECTION** | OWNER | CONTRACTOR |
|--|----------------------------|-------|------------|
| FIRE ALARM TEST | BC 1407.13 | I/S | C |
| STRUCTURAL STEEL - WELDING | BC 1704.3.1 | I/S | C |
| STRUCTURAL STEEL - ERECTION AND BOLTING | BC 1704.3.2 BC 1704.3.3 | I/S | C |
| STRUCTURAL COLD-FORMED STEEL | BC 1704.3.4 | I/S | C |
| CONCRETE - CAST IN PLACE | BC 1704.4 | I/S | C |
| CONCRETE - PRECAST | BC 1704.4 | I/S | C |
| CONCRETE - PRESTRESSED | BC 1704.4 | I/S | C |
| MASONRY | BC 1704.5 | I/S | C |
| WALL PANELS, CURTAIN WALLS, AND VENEERS | BC 1704.10 | I/S | C |
| SPRAYED FIRE-RESISTANT MATERIALS | BC 1704.11 | I/S | C |
| MECHANICAL SYSTEMS | BC 1704.16 | I/S | C |
| EXCAVATION - SHEETING, SHORING AND BRACING | BC 1704.19 | I/S | C |
| SITE STORM DRAINAGE DISPOSAL AND DETENTION SYSTEM INSTALLATION | BC 1704.20 | I/S | C |
| SPRINKLER SYSTEMS | BC 1704.21 | I/S | C |
| STANDPIPE SYSTEM | BC 1704.22 | I/S | C |
| HEATING SYSTEM | BC 1704.23 | I/S | C |
| FIRESTOP, DRAFTSTOP AND FIREBLOCK SYSTEMS | BC 1704.25 | I/S | C |
| CONCRETE TEST CYLINDERS - TR2 | BC 1905.6 | I/S | C |
| CONCRETE DESIGN MIX - TR3 | BC 1905.3 | C | C |

| PROGRESS INSPECTION ITEMS | CODE SECTION | OWNER | CONTRACTOR |
|--|------------------------------|-------|------------|
| FOOTING AND FOUNDATION | BC 110.3.1 | I/S | C |
| FIRE-RESISTANCE RATED CONSTRUCTION | BC 110.3.5 | I/S | C |
| ENERGY CODE COMPLIANCE INSPECTION - TR8 (SEE SHEET EN-001 FOR TABLE OF INSPECTIONS) | BC 110.3.4/ IRCNY 5000-01 | I/S | C |

| | | | |
|--------|--------------|--|--|
| 1213.3 | Refuse chute | A multiple dwelling that is five or more stories in height and contains more than 9 dwelling units shall be provided with a refuse chute, refuse chute access rooms and refuse chute termination room constructed in accordance with Section 707.13. A minimum of 5 square ft of floor area within each refuse chute access room shall be provided for temporary holding of recyclables. | Trash chute provided, See A-420; Complies. |
|--------|--------------|--|--|

CHAPTER 13: ENERGY EFFICIENCY

| | | | |
|-----------------------|----------|--|----------------------|
| SECTION 1301: GENERAL | | | |
| 1301.1.1 | Criteria | Buildings shall be designed and constructed in accordance with the New York City Energy Conservation Code. | Complies. See EN-003 |

CHAPTER 15: ROOF ASSEMBLIES AND ROOFTOP STRUCTURES

| | | | |
|--|---------------------------------------|---|-----------|
| SECTION 1504: PERFORMANCE REQUIREMENTS | | | |
| 1504.3 | Wind Resistance of nonballasted roofs | Roof coverings installed on roofs in accordance with Section 1507 that are mechanically attached or adhered to the roof deck shall be designed to resist the design wind load pressures for components and cladding in accordance with Section 1609. | Complies. |
| 1504.8 | Reflectance | Roof coverings on roofs or setbacks with slope equal to or less than two units vertical in 12 units horizontal shall have: 1. A minimum initial solar reflectance of 0.7 in accordance with ASTM C1549 or ASTM E1918, and a minimum thermal emittance of 0.75 as determined in accordance with ASTM C1371 or ASTM E408, or 2. A minimum of SRI of 78 as determined in accordance with ASTM E1980. | Complies. |

SECTION 1509: ROOFTOP STRUCTURES

| | | | |
|--------|-------------------|--|--|
| 1509.8 | Protective guards | Buildings greater than 22 feet in height with roof slopes less than 2.4 units vertical in 12 units horizontal shall be provided with a parapet, railing, fence or combination thereof, not less than 42 inches in height. Railings or fences may be located inward from the face of the exterior wall a distance not exceeding 6 feet. Railings or fences shall be of noncombustible material. Railings shall be constructed to comply with the requirements of Section 1012 and 1607.7. | 3'-8" height parapet provided; Complies. |
|--------|-------------------|--|--|

CHAPTER 30: ELEVATORS AND CONVEYING SYSTEMS

| | | | |
|--------|---|--|---|
| 3001.6 | Elevator mirrors | A mirror shall be installed in each self-service passenger elevator in multiple dwellings. Such mirror shall be affixed and maintained in a manner sufficient to enable persons entering such elevator to view the inside thereof prior to entry. | Complies. |
| 3002.3 | Emergency signs | An approved pictorial sign of a standardized design shall be posted adjacent to each elevator call station on all floors instructing occupants to use the exit stairways and not to use the elevators in case of fire. The sign shall read: IN FIRE EMERGENCY, DO NOT USE ELEVATOR, USE EXIT STAIRS. | See Signage Schedule, A-540; Complies. |
| 3002.4 | Elevator car to accommodate ambulance stretcher | In buildings five stories in height or more, at least one elevator shall be provided for Fire Department emergency access to all floors. Such elevator car shall be of such a size and arrangement to accommodate a 24 inch by 84 inch ambulance stretcher in the horizontal, open position and shall be identified with the star of life. | See Elevator Plan, see A-410, Complies. |

CHAPTER 32: ENCROACHMENTS INTO THE PUBLIC RIGHT-OF-WAY

| | | | |
|------------|-------------------------------|--|---|
| 3202.1.1 | Footings | Exterior wall and column footings may be constructed to project beyond the street line not more than 12 inches, provided that the top of the footing is not less than 8 feet below the ground or sidewalk level. | Complies. |
| 3202.2.1.1 | Entrance details | Entrance details, including steps and doors when fully open may be constructed to project beyond the street line not more than 18 inches. Entrance steps that project beyond the street line shall be guarded at each end by railings or check pieces at least 3 feet high or by other member of the entrance detail providing equivalent protection. | See A-100; Complies. |
| 3202.2.1.2 | Architectural details | Details such as cornices, eaves, bases, sills, headers, band course, opening frames, sun control devices, rustications, applied ornament or sculpture, grilles, windows when full open, air conditioning units and other similar elements may be constructed: 1. To project not more than 4 inches beyond the street line when less than 10 feet above the ground or sidewalk level. 2. To project not more than 10 inches beyond the street line when more than 10 feet above the ground or sidewalk level. | No architectural detail extend beyond the street line; Complies. |
| 3202.2.1.5 | Light fixtures | Light fixtures that are supported entirely from the building may be constructed to project not more than 2 feet beyond the street line provided no part of the fixture is less than 8 feet above the ground or sidewalk level. | Exterior lighting will be less than 2' from the street line and above 8' from the sidewalk level; Complies. |
| 3202.2.3.2 | Awnings over windows or doors | Awnings over windows or doors may project beyond the street line not more than 5 ft, provided that no part of the awning is less than 8 ft above the ground or sidewalk level. | See A-200. Complies. |

APPENDIX F: RODENT-PROOFING

| | | | |
|--------|--------------------------------------|--|---------------------------|
| F102.1 | Exterior walls and underground walls | For walls or portions thereof within 2 feet of the outside ground level, and for walls below the outside ground level, all openings, including but not limited to, annular spaces around pipes, electric cables, and conduits, shall be protected by closing such openings with cement mortar, concrete masonry, metal plates or screening designed to prevent the passage of rodents. | See Electrical, Complies. |
| F102.2 | Floors on grade | Unless otherwise specified, floors on grade shall be constructed of a minimum 2-inch thick continuous concrete slab. Gaps shall not be permitted between the slab and the abutting foundation walls or columns, except where expansion joints, thermal breaks and control joints are located. All openings shall be protected by closing such openings with cement mortar, concrete masonry, metal plates or screening designed to prevent the passage of rodents. | See Structural, Complies. |

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BUILDING ANALYSIS IV



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Sheet No.:
14 of **G-010.00**

| BUILDING OCCUPANT LOAD | | | |
|------------------------|-----------|----------------------|------------------|
| Name | Occupancy | Design Occupant Load | Zoning Use Group |
| CELLAR | | | |
| COMMUNITY FACILITY | B | 32 | 4 |
| MEN | B | 1 | 4 |
| WOMEN | B | 1 | 4 |
| COMPACTOR ROOM | R-2 | 1 | 2 |
| GAS METER | R-2 | 0 | 2 |
| WATER | R-2 | 1 | 2 |
| ELECTRICAL | R-2 | 1 | 2 |
| STORAGE | R-2 | 0 | 2 |
| IT CLOSET | R-2 | 0 | 2 |
| 1ST FLOOR | | | |
| COMMUNITY FACILITY | B | 33 | 4 |
| WOMEN | B | 1 | 4 |
| MEN | B | 1 | 4 |

| BUILDING OCCUPANT LOAD | | | |
|------------------------|-----------|----------------------|------------------|
| Name | Occupancy | Design Occupant Load | Zoning Use Group |
| 1ST FLOOR | | | |
| TRASH LIFT | R-2 | 0 | 2 |
| STORAGE | R-2 | 0 | 2 |
| BIKE ROOM | R-2 | 1 | 2 |
| 2ND FLOOR | | | |
| COMMUNITY ROOM | R-2 | 31 | 2 |
| 2 BR | R-2 | 4 | 2 |
| 1 BR | R-2 | 3 | 2 |
| 0 BR | R-2 | 2 | 2 |
| 1 BR | R-2 | 3 | 2 |
| TRASH ROOM | R-2 | 0 | 2 |
| 3RD - 6TH FLOOR | | | |
| 2BR | R-2 | 4 | 2 |
| 3BR | R-2 | 6 | 2 |
| 2BR | R-2 | 4 | 2 |

| BUILDING OCCUPANT LOAD | | | |
|------------------------|-----------|----------------------|------------------|
| Name | Occupancy | Design Occupant Load | Zoning Use Group |
| 3RD - 6TH FLOOR | | | |
| 0BR | R-2 | 2 | 2 |
| TRASH ROOM | R-2 | 0 | 2 |
| JAN CL | R-2 | 0 | 2 |
| 1 BR | R-2 | 3 | 2 |
| 7TH - 8TH FLOOR | | | |
| 3 BR | R-2 | 6 | 2 |
| 2 BR | R-2 | 4 | 2 |
| 4 BR | R-2 | 7 | 2 |
| JAN CL | R-2 | 0 | 2 |
| TRASH ROOM | R-2 | 0 | 2 |
| ROOF | | | |
| HOT WATER ROOM | R-2 | 1 | 2 |

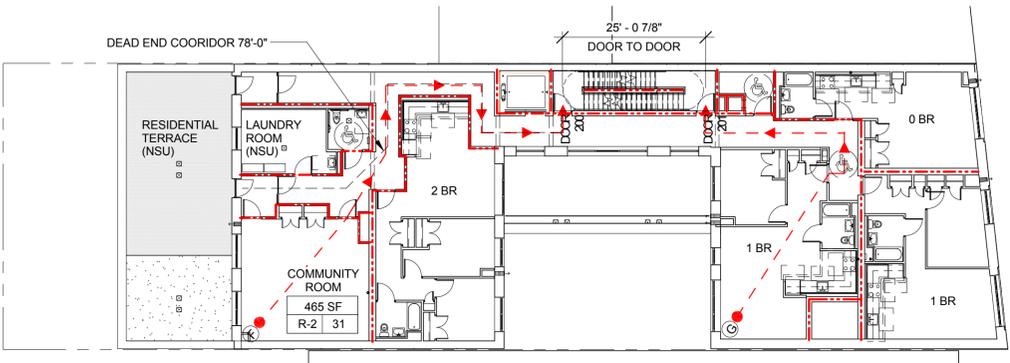
PLUMBING FIXTURES

COMMUNITY FACILITY (NON-PROFIT) MINIMUM PLUMBING FIXTURES - PER NYC PLUMBING CODE, TABLE 403.1

| LEVEL | WATER CLOSETS | | LAVATORIES | | BATHTUBS/SHOWERS | | DRINKING FOUNTAINS | | SERVICE SINK | | | | | |
|-----------|---------------|----------|------------|----------|------------------|----------|--------------------|----------|--------------|----------|---|---|---|---|
| | REQUIRED | PROVIDED | REQUIRED | PROVIDED | REQUIRED | PROVIDED | REQUIRED | PROVIDED | REQUIRED | PROVIDED | | | | |
| | M | F | M | F | M | F | M | F | M | F | | | | |
| CELLAR | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | - | - | 1 | 2 | 1 | 1 |
| 1ST FLOOR | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 |

MINIMUM NUMBER OF FIXTURES FOR 'B' OCCUPANCY PER NYC PLUMBING CODE, TABLE 403.1
 WATER CLOSETS: 21-45 PERSONS OF EACH SEX = 2
 LAVATORIES: 26-50 PERSONS OF EACH SEX = 2
 BATHTUBS/SHOWERS: NOT REQUIRED
 DRINKING FOUNTAINS: 1 PER 100 PERSONS
 SERVICE SINK: 1
 NOTE: SEPARATE FACILITIES FOR WATER CLOSETS AND LAVATORIES ARE PROVIDED FOR EACH SEX PER NYC PLUMBING CODE 403.2 - SEPARATE PLUMBING FACILITIES

| EXIT SUMMARY | | | | | | | | | | | | | |
|-----------------|---------------------|-----------------------|------------------------|--------------------------|--------------------------|----------------------|----------------------|---------------------|---------------------|-------------------|------------------------|--------------|-------------------|
| Occupancy | Total Occupant Load | Stairway Egress Units | All Other Egress Units | Required Travel Distance | Provided Travel Distance | Required Stair Width | Provided Stair Width | Required Door Width | Provided Door Width | Max Common Egress | Provided Common Egress | Max Dead End | Provided Dead End |
| CELLAR | | | | | | | | | | | | | |
| B | 34 | 0.3 | 0.2 | 300' - 0" | 90' - 3" | 10 | 44" | 6 | 36" | 100' - 0" | 23' - 0" | 50' - 0" | 0' - 0" |
| R-2 | 3 | 0.3 | 0.2 | 200' - 0" | 61' - 5" | 0 | 38" | 0 | 36" | 125' - 0" | 31' - 6" | 80' - 0" | 0' - 0" |
| 1ST FLOOR | | | | | | | | | | | | | |
| B | 35 | 0.3 | 0.2 | 300' - 0" | 78' - 4" | 10 | 44" | 7 | 36" | 100' - 0" | 23' - 0" | 50' - 0" | 0' - 0" |
| R-2 | 1 | 0.3 | 0.2 | 200' - 0" | 101' - 9" | 0 | 38" | 0 | 36" | 125' - 0" | 101' - 9" | 80' - 0" | 0' - 0" |
| 2ND FLOOR | | | | | | | | | | | | | |
| R-2 | 43 | 0.3 | 0.2 | 200' - 0" | 91' - 9" | 13 | 38" | 9 | 36" | 125' - 0" | 91' - 9" | 80' - 0" | 78' - 0" |
| 3RD - 6TH FLOOR | | | | | | | | | | | | | |
| R-2 | 19 | 0.3 | 0.2 | 200' - 0" | 98' - 10" | 6 | 38" | 4 | 36" | 125' - 0" | 99' - 0" | 80' - 0" | 24' - 6" |
| 7TH - 8TH FLOOR | | | | | | | | | | | | | |
| R-2 | 17 | 0.3 | 0.2 | 200' - 0" | 98' - 10" | 5 | 38" | 3 | 36" | 125' - 0" | 99' - 0" | 80' - 0" | 20' - 0" |
| ROOF | | | | | | | | | | | | | |
| R-2 | 1 | 0.3 | 0.2 | 200' - 0" | 20' - 0" | 0 | 38" | 0 | 36" | 125' - 0" | 20' - 0" | 80' - 0" | 0' - 0" |



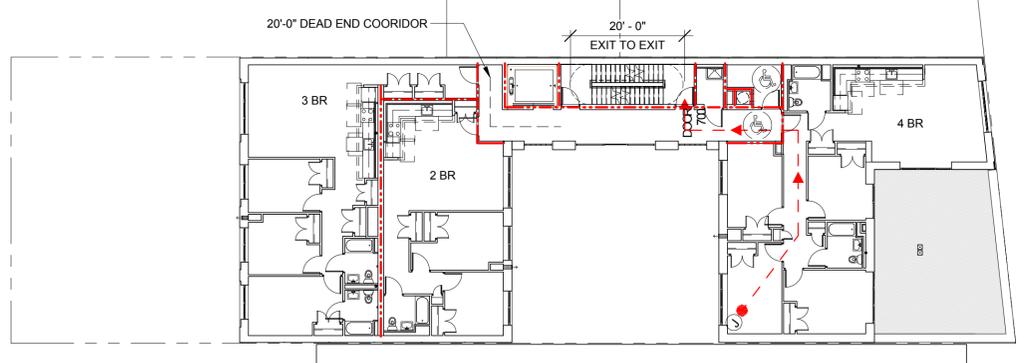
3B 2ND FLOOR - EGRESS
 G-011 1/16" = 1'-0"

NOTES:
 1. DWELLING UNIT OCCUPANCIES ASSUMPTIONS:
 0 BR: 2 OCC
 1 BR: 3 OCC
 2 BR: 4 OCC
 3 BR: 5 OCC
 4 BR: 7 OCC
 2. GROUND FLOOR LOBBY, 7TH FLOOR TERRACE AND LAUNDRY ARE NOT INCLUDED IN THE TOTAL OCCUPANCY CHART AS THEY ARE NON-SIMULTANEOUS USE.

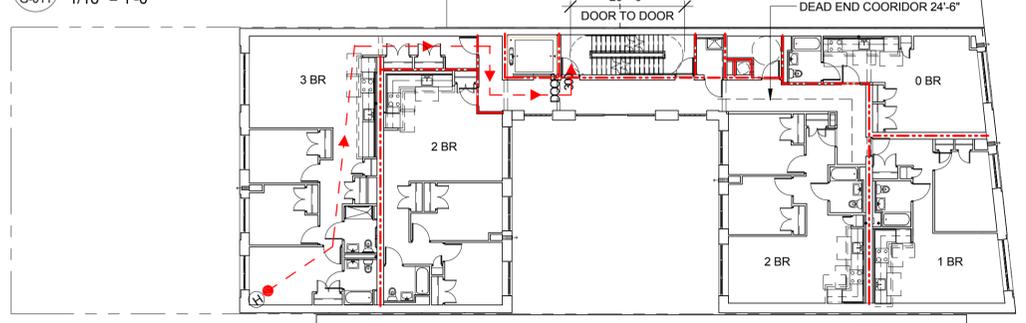
LEGEND:
 - - - - - 1HR FIRE RATED
 - - - - - 2HR FIRE RATED
 - - - - - 3HR FIRE RATED
 - - - - - TRAVEL DISTANCE
 - - - - - 75' FIRE EXTINGUISHER - FE, FEC

PRINT - EGRESS DISTANCE

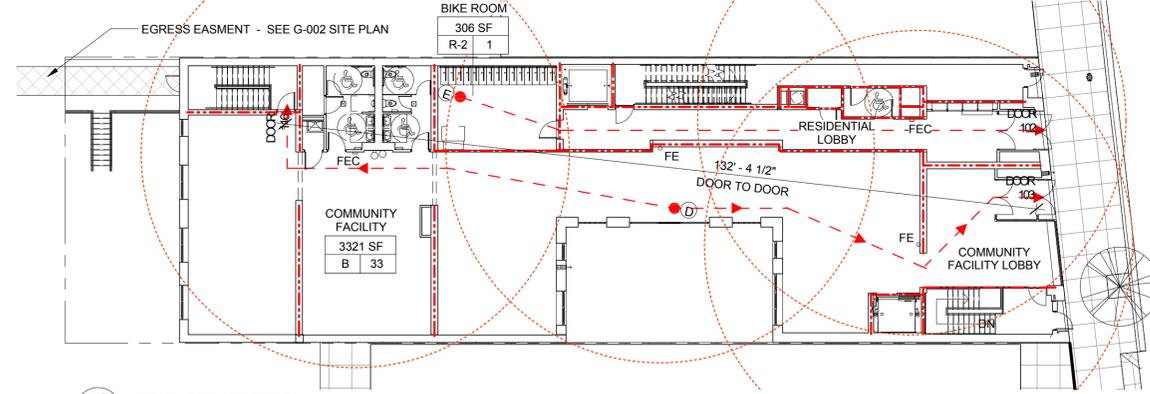
| Start Mark | End Mark | line_length |
|------------|----------|-------------|
| A | DOOR 002 | 61' - 5" |
| B | DOOR 002 | 25' - 3" |
| C | DOOR 001 | 90' - 3" |
| C | DOOR 017 | 65' - 1" |
| D | DOOR 103 | 70' - 8" |
| D | DOOR 116 | 77' - 9" |
| E | DOOR 102 | 101' - 9" |
| F | DOOR 200 | 90' - 8" |
| G | DOOR 201 | 67' - 0" |
| H | DOOR 300 | 99' - 0" |
| J | DOOR 700 | 58' - 3" |



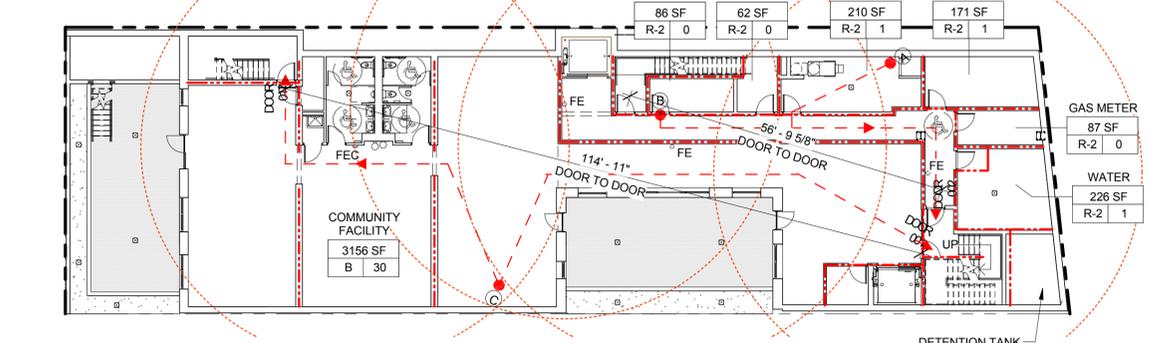
5 7TH & 8TH FLOOR - EGRESS
 G-011 1/16" = 1'-0"



3A 3RD-6TH FLOOR - EGRESS
 G-011 1/16" = 1'-0"



3C 1ST FLOOR - EGRESS
 G-011 1/16" = 1'-0"



3D CELLAR - EGRESS
 G-011 1/16" = 1'-0"

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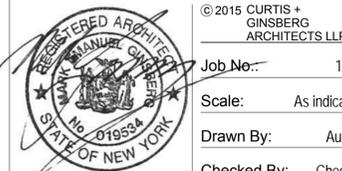
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| No. | Date | Submission |
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Title:
BUILDING ANALYSIS V

Job No.: 1507
 Scale: As indicated
 Drawn By: Author
 Checked By: Checker

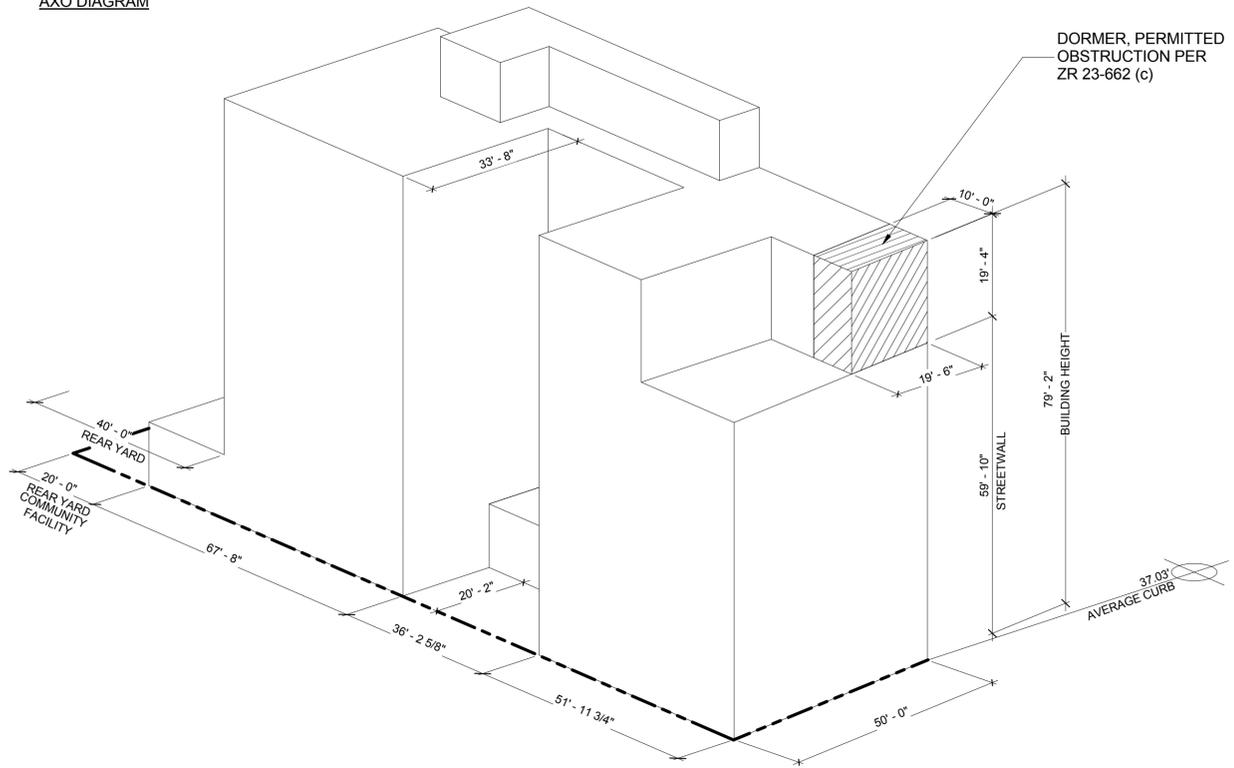
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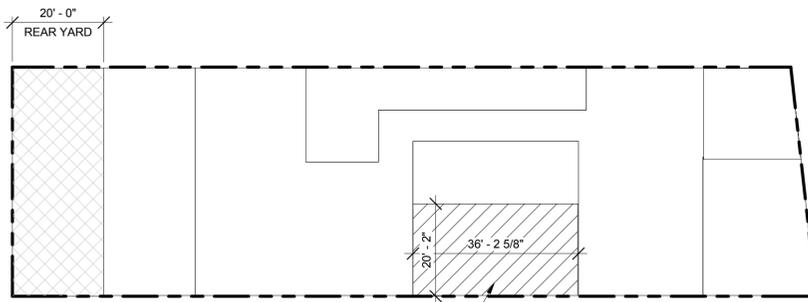
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AXO DIAGRAM



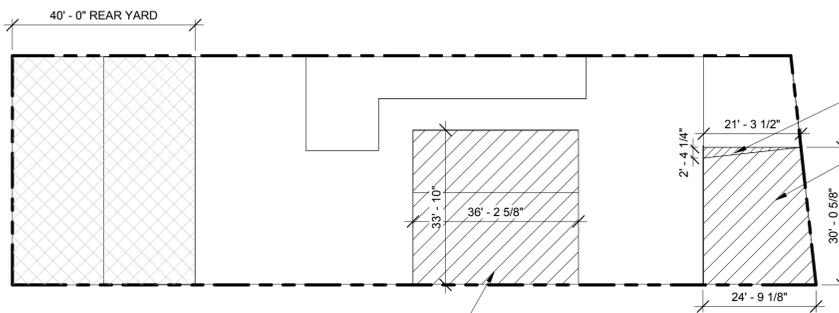
DORMER, PERMITTED OBSTRUCTION PER ZR 23-662 (c)

YARD & COURT DIAGRAMS - COMMUNITY FACILITY



INNER COURT (ZR 24-641)
AREA = 721 SF (> 600 SF)
NO DIM < 20'-0"
COMPLIES

YARD & COURT DIAGRAMS - RESIDENTIAL



INNER COURT (ZR 24-641)
AREA = 1216 SF (> 1200 SF)
NO DIM < 30'-0"
COMPLIES

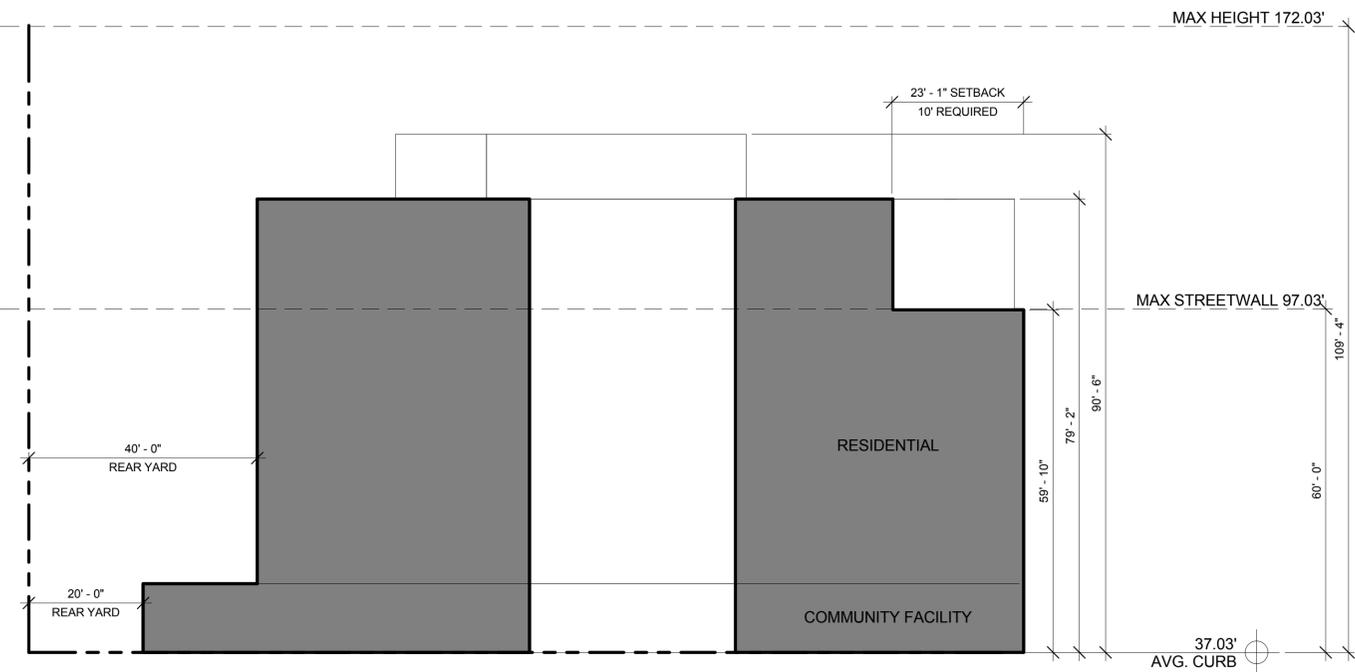
OUTER COURT RECESS (ZR 23-843)
WIDTH > 2X DEPTH
COMPLIES

WIDE OUTER COURT (ZR 23-842)
WIDTH > 30'-0" AND WIDTH > DEPTH
COMPLIES

AVERAGE CURB = $(37.17 + 36.88) / 2 = 37.03'$

DORMER CALCULATION
ELEVATION ABOVE MAX BASE HT = $115.7' - 97.03' = 18.67'$ HEIGHT OF DORMER
ALLOWABLE WIDTH = $60\% - 18.67\% = 41.33\%$ $49.93 \times 41.33\% = 20.64'$ ALLOWABLE
20.05' PROPOSED

HEIGHT AND SETBACK DIAGRAM



3365 THIRD AVE

3365 Third Ave Bronx, NY 10456

Owner
3365 THIRD AVE OWNER, LLC
1605 Dr. Martin Luther King Jr. Blvd.
Bronx, NY 10453

Architect
CURTIS + GINSBERG ARCHITECTS LLP
299 Broadway, Suite 1107
New York, New York 10007

Structural Engineer
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White Plains, New York 10603

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BPP
SULLIVAN GROUP DESIGN, LLC
109 West 27th Street
New York, NY 10001

STEVEN WINTERS ASSOCIATES, INC
307 Seventh Ave, Suite 1701
New York, NY 10001

KEY PLAN

| No. | Date | Revision |
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ZONING ANALYSIS II

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Job No.: 1507
Scale: As indicated
Drawn By: CNW/IG
Checked By: MEG

Sheet No.: **Z-002.00**
of



| SECTION | ITEM | PERMITTED/REQUIRED | PROPOSED |
|---------------------------------------|--|---|---|
| 3365 Third Ave Zoning Summary | | | |
| Address | 3365 Third Ave, Bronx, NY 10456 | Borough Bronx | Block 2370 |
| Map | 3d | Lots | 33 |
| District | MX 7(M1-1/R7-2) | | |
| Lot Area | Lot area - 100' within Wide Street 5,033.14 Lot area - 100' beyond a wide street 3,627.7 Total Lot Area 8,660.9 | 58.1% % of Lot 41.9% % of Lot | |
| I. USE GROUPS | | | |
| 123-20 | Use Groups | Permitted Use Groups in R7-2: 1,2,3,4,5,6,8,9,10,12 Permitted Use Groups in M1: 4,5,6,7,8,9,10,11,12,13,14,16,17 | UG 2 - Multi-Family Residential; Complies. UG 4 - Community Facilities - Non-profit; Complies |
| II. SPECIAL MIXED USE DISTRICT | | | |
| 123-31 | Provision Regulating Location of Uses in Mixed Use Building | In buildings occupied by residential uses, non-residential uses may be located only on a story below the lowest story occupied by dwelling units or rooming units | Complies; Residential units on 2nd floor, Community Facilities on Cellar and 1st floor |
| 123-62/24-11 | Maximum Floor Area Ratio for Community Facilities | 6.5 Permitted FAR | Permitted SF: 8,660.9 SF x 6.5 = 56,296 SF 4,936 SF FAR: 4,873/8,660.9 SF = 0.57 Complies |
| 124-64(a)(3)/23-145 - 77-22(a) | Residential - 100' within Wide Street (R7*) | 4. Permitted FAR | Permitted SF: (5,033.14 SF x 4) + 20% = 24,159 SF 21,621 SF Complies |
| 123-17/77-22(a) | Residential - 100' beyond Wide Street (R7) | 3.44 Permitted FAR | Permitted SF: (5,033.14 SF x 4) + 20% = 14,975 SF 9,713 SF Complies |
| 123-64(a)(4) | Weighted Residential | (4.00 x 58.1) = 2.34 | (3.44 x 41.9) = 1.44 3.78 Permitted FAR 31,335 SF FAR: 31,229/8,660.9 SF = 3.62 Complies |
| 123-64(a)(4) | Maximum F.A.R. | 6.50 | Permitted SF: 8,660.9 SF x 6.5 = 56,296 SF 36,271 SF FAR: 37,025/8,660.9 SF = 4.19 Complies |
| 123-64(b) | Lot Coverage | Lot coverage shall not apply | Complies |
| 123-652/23-663(b) | Special Yard Regulation for Mixed Building | Front yard None required. Side yard None required; if provided, min. 8'-0" Residential Rear yard Provide a minimum depth of 30'. Residential Rear yard Setback 10' from rear yard line Non Residential Rear yard Provide a minimum depth of 20'. Beyond 100' of a street line No rear yard required where it coincides with side lot line of adjoining zoning lot | None Provided; Complies. None Provided; Complies. 40' Rear yard provided; Complies. See Z-002 10' provide from Rear yard line provided; Complies. See Z-002 20' Rear yard provided; Complies. See Z-002 None Provided; Complies. |
| 123-662(a)(1) | Height and Setback Regulations in Special Mixed Use Districts with R6, R7, R8, R9 and R10 | Initial Setback regulation Required Base Height (R7-2) 60'-0" max. Maximum Building Height (R7-2) 135'-0" | 10' at wide street 21'-3" Provided; Complies. 59'-10" Provided; Complies. 79'-2" Provided; Complies. |
| 123-662 (c) /23-62 | Permitted Obstruction and Dormer Provisions | Dormers shall be allowed as a permitted obstruction provided that on any street frontage, the aggregate width of all dormers at the maximum base height does not exceed 60 percent of the width of the street wall of the highest story entirely below the maximum base height. For each foot above the maximum base height, the aggregate width of all dormers shall be decreased by one percent of the street wall width of the highest story entirely below the maximum base height. | See Diagram on Z-000 |
| III. RESIDENTIAL REGULATIONS | | | |
| 23-03/26-41 | Street Tree Required | 1 tree per 25 ft of street frontage Third Ave Frontage = 50'-4" Total Number of Street Trees = 50'-4"/25' = 2 | Number of new on-site trees = 1 Number trees paid to DPR tree fund = 1 Total trees provided: 2 |
| 23-22 | Permitted Dwelling Units | Maximum floor area permitted Density Factor in R6 Permitted D.U.s : 32,738 SF 680 SF 32,738 / 680 = | 48 DU 30 Complies |
| 23-32 | Min Lot Area or Lot Width for Residences | Minimum Lot Width: 18' Minimum Lot Area: 1,700 SF | Lot Width = 50'-4" Complies Lot Width = 8,660.9 Complies |
| 23-87 | Permitted Obstructions in Courts Courts | The following obstructions shall be permitted within the minimum area and dimensions needed to satisfy the requirements for a court. (e) fences, (h) open terraces, porches, or steps | Fence and Terrace provided in court, Complies. See A-101 |

| IV. PARKING | | | |
|--|-----------------------------------|---|--|
| 123-72 | Building | No. DU or Floor Area | Accessory Parking Requirement |
| 25-25 | R6A: Government Assisted Housing | 30 | 25% x 30 = 8 waived per 36-231 |
| 25-31 | Community Facilities | | NONE 0 |
| Total Accessory Parking Spaces Required | | 8 spaces required | |
| All Spaces Waived per 36-231 | | | |
| 25-811 | Enclosed Bicycle Parking | Building | No. DU or Floor Area / Accessory Parking Requirement |
| | | Use Group 2 | 30 1 per 2 DU |
| | | Use Group 6 | 4,936.04 1 per 10,000 sf |
| Total Accessory Bike Parking Spaces Required | | 15 | |
| Waved per 25-811 17 Provided; Complies, Bike parking 306 sq ft / 17 bike = 18 sq ft/bike | | | |
| V. QUALITY HOUSING | | | |
| ALL RELATED FACILITIES AND AMENITIES REQUIRED PURSUANT TO THE QUALITY HOUSING PROGRAM SHALL NOT BE REMOVED | | | |
| 28-21 | A. Size of Dwelling Units | A dwelling unit shall have an area of at least 400 square feet of floor area. | 426 SF min DU provided; Complies. See Floor Plans |
| 28-22 | B. Windows | All windows in the residential portion of a development shall be double glazed. | Provided; Complies. |
| 28-23 | C. Refuse Storage and Disposal | Storage and removal locations shall be provided at the rate of 2.9 cubic feet per dwelling unit. Provide one refuse disposal room of not less than 12 square feet with no dimension less than 3 feet on each story that has entrances to dwelling units. | 30 DU x 2.9 cubic feet = 87 cubic feet Compactor room 210 sq ft x 11'-10" = 2,484 cubic ft Provided; Complies. |
| 28-24 | D. Laundry Facilities | 1. Provide at least one washing machine per 20 dwelling units. 33 DU / 20 DU = 1.65 required. 2. Provide at least one dryer per 40 dwelling units. 33 DU / 40 DU = .83 required. 3. Machines are located in a room with an additional 3 square feet of unobstructed floor space equipped with chairs and tables for folding laundry for each machine provided. 4. Such rooms have at least one exterior wall with windows measuring not less than 9.5 percent of the total floor space of the room. 173 SF x 0.095 = 16.9 of windows required | 5 washing machines Provided; Complies. 5 dryers Provided; Complies. Provided; Complies. 20 SF Provided; Complies. See Elevations and A-320.00 window schedule. Window complies with ZR 24-60 |
| 28-25 | E. Daylight in Corridors | Fifty percent of the square footage of a corridor may be excluded from the definition of floor area if a window with a clear, non-tinted, glazed area of at least 20 square feet is provided. | 20 SF Provided at all corridor; Complies. See Plans. |
| 28-31 | F. Required Recreation Space | All developments with nine or more dwelling units shall provide at the least the minimum amount required: R7 = 3.3 percent of residential floor area 31,335.2 SF x 0.033 = 1034.06 SF required | Community Room = 486 SF Outdoor Recreation = 869 SF Provided: 1355 SF > 1034.06 SF Complies |
| 28-32 | G. Standards for Recreation Space | 1. All recreation space shall be accessible to the residents of the building. 2. The minimum dimension of any recreation space shall be 15 feet. The minimum size of any outdoor recreation space shall be 225 square feet, and the minimum size of any indoor recreation space shall be 300 square feet. 3. Outdoor recreation space shall be open to the sky, except that building projections, not to exceed 7' in depth, may cover up to 10 percent of the outdoor recreation space. 4. Indoor recreation space shall have at least one exterior wall with windows that measure not less than 9.5 percent of the total floor space for the room. | Community Room, 2nd floor terrace Provided; Complies. Provided; Complies. See Sheet A-100 and A-101 No building projections provided; Complies. 58 SF Provided Complies |
| | | 46.2 SF required | Recreation room for tenants at second floor shall not be rented separately and shall not be used for living or sleeping purposes." |

3365 THIRD AVE

3365 THIRD AVE

Owner
BRONX PRO GROUP
1605 Dr. Martin Luther King Jr. Blvd.
Bronx, NY 10453

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New York, New York 10001

BPP
SULLIVAN GROUP DESIGN, LLC
109 West 27th Street
New York, NY 10001

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08/13/15 BLDS SUBMISSION

| No. | Date | Submission |
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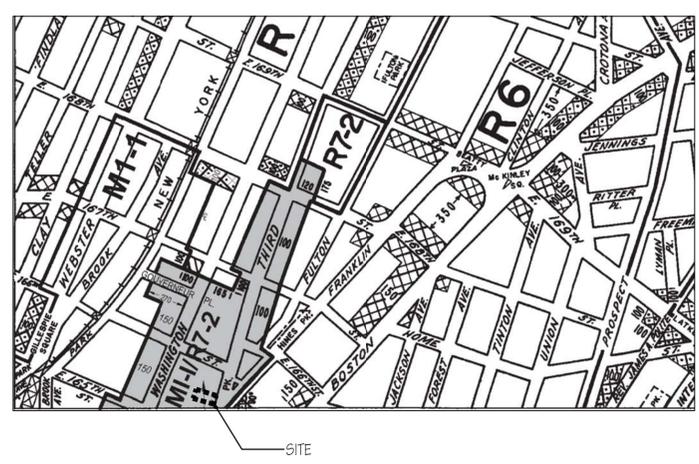
ZONING ANALYSIS I

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Z-001.02

ZONING MAP 3d



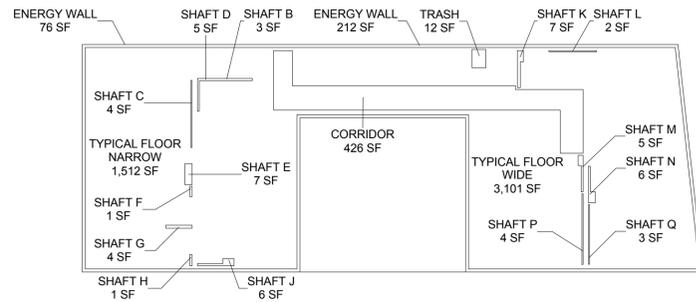
FLOOD MAP: PRELIMINARY FIRM DATED DECEMBER 5, 2013



FLOOD MAP: FIRM DATED DECEMBER 5, 2007

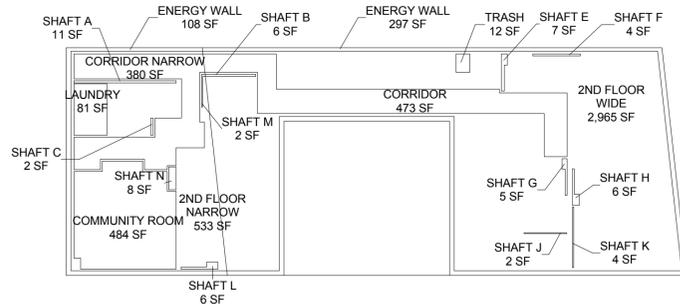


| Floor | Gross Floor Area | | | Residential Deductions | | | | | | | | | | | Community Facility Deduction | | Zoning Floor Area | | | | | |
|-----------|------------------|--------------------|--------------|------------------------|-----------|------------------|-----------|----------------|-----------|----------|-----------------|--------------|---------|-------------|------------------------------|---------|-------------------|-------------|--------------------|----------------------|--------------------|--------------|
| | Residential | Community Facility | Total | Shaft | | Corridor Density | | Corridor Light | | Laundry | Recreation Room | Bike Parking | | Refuse Room | Energy Wall | | Shaft | Energy Wall | Residential - Wide | Residential - Narrow | Community Facility | Total |
| | | | | Wide | Narrow | Wide | Narrow | Wide | Narrow | | | Wide | Narrow | | Wide | Narrow | | | | | | |
| CELLAR | 1,875.37 SF | 4,514.81 SF | 6,390.18 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0 SF | 0 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | |
| 1ST FLOOR | 1,753.14 SF | 5,128.38 SF | 6,884.98 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 224.70 SF | 81 SF | 0.00 SF | 67.07 SF | 3 SF | 20 SF | 192.34 SF | 1,366.93 SF | 13.14 SF | 4,936.04 SF | 6,316.11 SF |
| 2ND FLOOR | 4,913.20 SF | 0.00 SF | 5,396.06 SF | 32.79 SF | 19.27 SF | 236.62 SF | 190.19 SF | 236.62 SF | 190.19 SF | 81.38 SF | 484.29 SF | 0.00 SF | 0 SF | 12.00 SF | 404.47 SF | 0 SF | 0 SF | 0.00 SF | 2,857.76 SF | 640.86 SF | 0.00 SF | 3,498.62 SF |
| 3RD FLOOR | 5,396.26 SF | 0.00 SF | 5,396.26 SF | 30.25 SF | 28.45 SF | 212.92 SF | 0.00 SF | 212.92 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0 SF | 12.00 SF | 211.66 SF | 76 SF | 0 SF | 0.00 SF | 3,100.70 SF | 1,511.77 SF | 0.00 SF | 4,612.47 SF |
| 4TH FLOOR | 5,396.26 SF | 0.00 SF | 5,396.26 SF | 30.25 SF | 28.45 SF | 212.92 SF | 0.00 SF | 212.92 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0 SF | 12.00 SF | 211.66 SF | 76 SF | 0 SF | 0.00 SF | 3,100.70 SF | 1,511.77 SF | 0.00 SF | 4,612.47 SF |
| 5TH FLOOR | 5,396.26 SF | 0.00 SF | 5,396.26 SF | 30.25 SF | 28.45 SF | 212.92 SF | 0.00 SF | 212.92 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0 SF | 12.00 SF | 211.66 SF | 76 SF | 0 SF | 0.00 SF | 3,100.70 SF | 1,511.77 SF | 0.00 SF | 4,612.47 SF |
| 6TH FLOOR | 5,396.26 SF | 0.00 SF | 5,396.26 SF | 30.25 SF | 28.45 SF | 212.92 SF | 0.00 SF | 212.92 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0 SF | 12.00 SF | 211.66 SF | 76 SF | 0 SF | 0.00 SF | 3,100.70 SF | 1,511.77 SF | 0.00 SF | 4,612.47 SF |
| 7TH FLOOR | 4,688.65 SF | 0.00 SF | 4,695.73 SF | 14.87 SF | 33.84 SF | 160.98 SF | 0.00 SF | 160.98 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0 SF | 12.00 SF | 227.08 SF | 76 SF | 0 SF | 0.00 SF | 2,496.95 SF | 1,506.38 SF | 0.00 SF | 4,003.33 SF |
| 8TH FLOOR | 4,688.65 SF | 0.00 SF | 4,695.73 SF | 14.87 SF | 33.84 SF | 160.98 SF | 0.00 SF | 160.98 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0 SF | 12.00 SF | 227.08 SF | 76 SF | 0 SF | 0.00 SF | 2,496.95 SF | 1,506.38 SF | 0.00 SF | 4,003.33 SF |
| ROOF | 746.26 SF | 0.00 SF | 746.26 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0 SF | 0.00 SF | 746 SF | 0 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF | 0.00 SF |
| | 40,250.31 SF | 9,643.19 SF | 50,393.97 SF | 183.52 SF | 200.74 SF | 1,410.25 SF | 190.19 SF | 1,410.25 SF | 190.19 SF | 81.38 SF | 484.29 SF | 224.70 SF | 81 SF | 84.00 SF | 1,772.35 SF | 1203 SF | 20 SF | 192.34 SF | 21,621.38 SF | 9,713.82 SF | 4,936.04 SF | 36,271.24 SF |



3RD - 6TH FLOOR
1" = 20'-0"

| Name | Shafts |
|---------|----------|
| SHAFT B | 3.31 SF |
| SHAFT C | 3.51 SF |
| SHAFT D | 5.41 SF |
| SHAFT E | 7.14 SF |
| SHAFT F | 1.09 SF |
| SHAFT G | 3.81 SF |
| SHAFT H | 1.19 SF |
| SHAFT J | 6.31 SF |
| SHAFT K | 7.04 SF |
| SHAFT L | 2.49 SF |
| SHAFT M | 4.71 SF |
| SHAFT N | 5.89 SF |
| SHAFT P | 3.69 SF |
| SHAFT Q | 3.12 SF |
| | 58.70 SF |

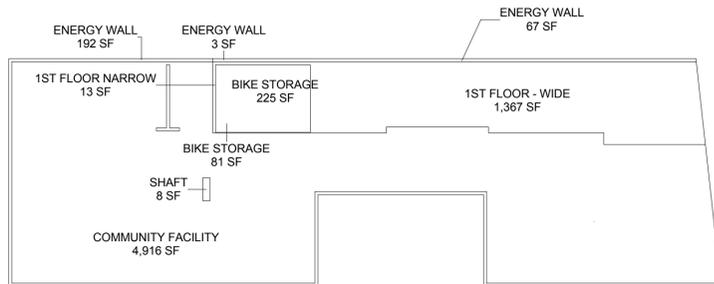


2ND FLOOR
1" = 20'-0"

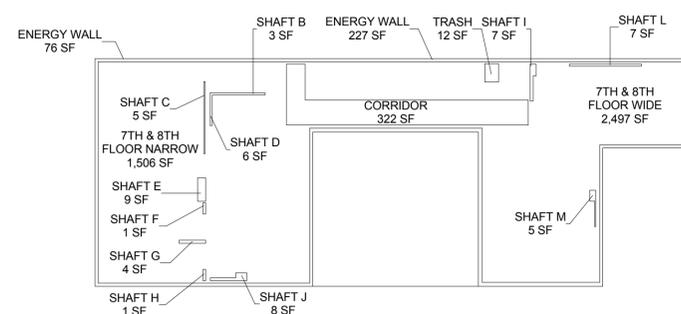
| Name | Shafts |
|---------|----------|
| SHAFT A | 11.07 SF |
| SHAFT B | 5.50 SF |
| SHAFT C | 1.88 SF |
| SHAFT E | 6.99 SF |
| SHAFT F | 4.21 SF |
| SHAFT G | 4.76 SF |
| SHAFT H | 5.89 SF |
| SHAFT J | 1.71 SF |
| SHAFT K | 3.71 SF |
| SHAFT L | 6.33 SF |
| SHAFT M | 1.72 SF |
| SHAFT N | 7.91 SF |
| | 61.69 SF |



ROOF
1" = 20'-0"



1ST FLOOR
1" = 20'-0"



7TH - 8TH FLOOR
1" = 20'-0"

| Name | Shafts |
|---------|----------|
| SHAFT B | 3.30 SF |
| SHAFT C | 4.92 SF |
| SHAFT D | 5.62 SF |
| SHAFT E | 8.98 SF |
| SHAFT F | 1.40 SF |
| SHAFT G | 3.87 SF |
| SHAFT H | 1.42 SF |
| SHAFT I | 7.08 SF |
| SHAFT J | 7.65 SF |
| SHAFT L | 7.06 SF |
| SHAFT M | 4.50 SF |
| | 55.78 SF |

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Title:

ZONING ANALYSIS III



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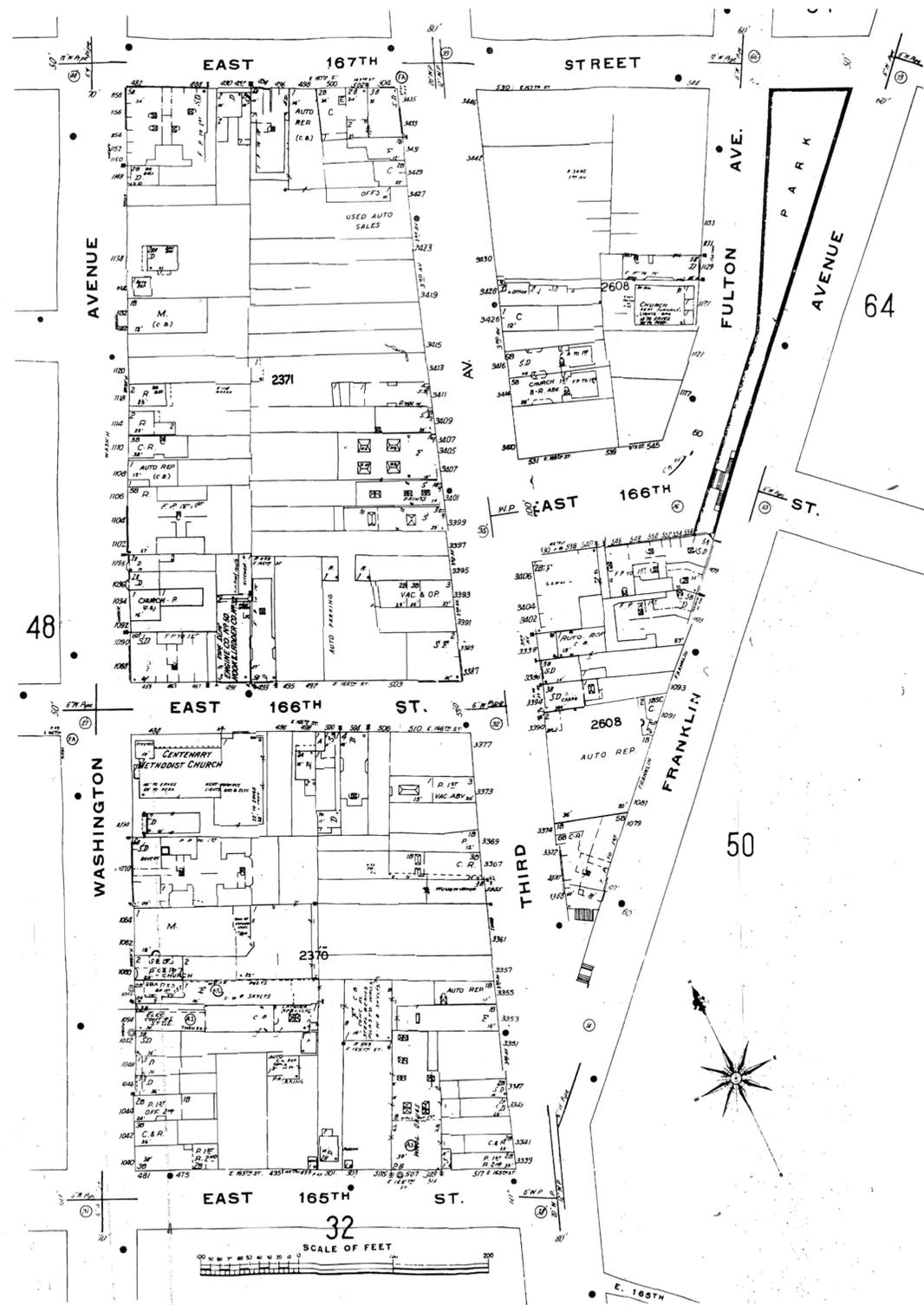
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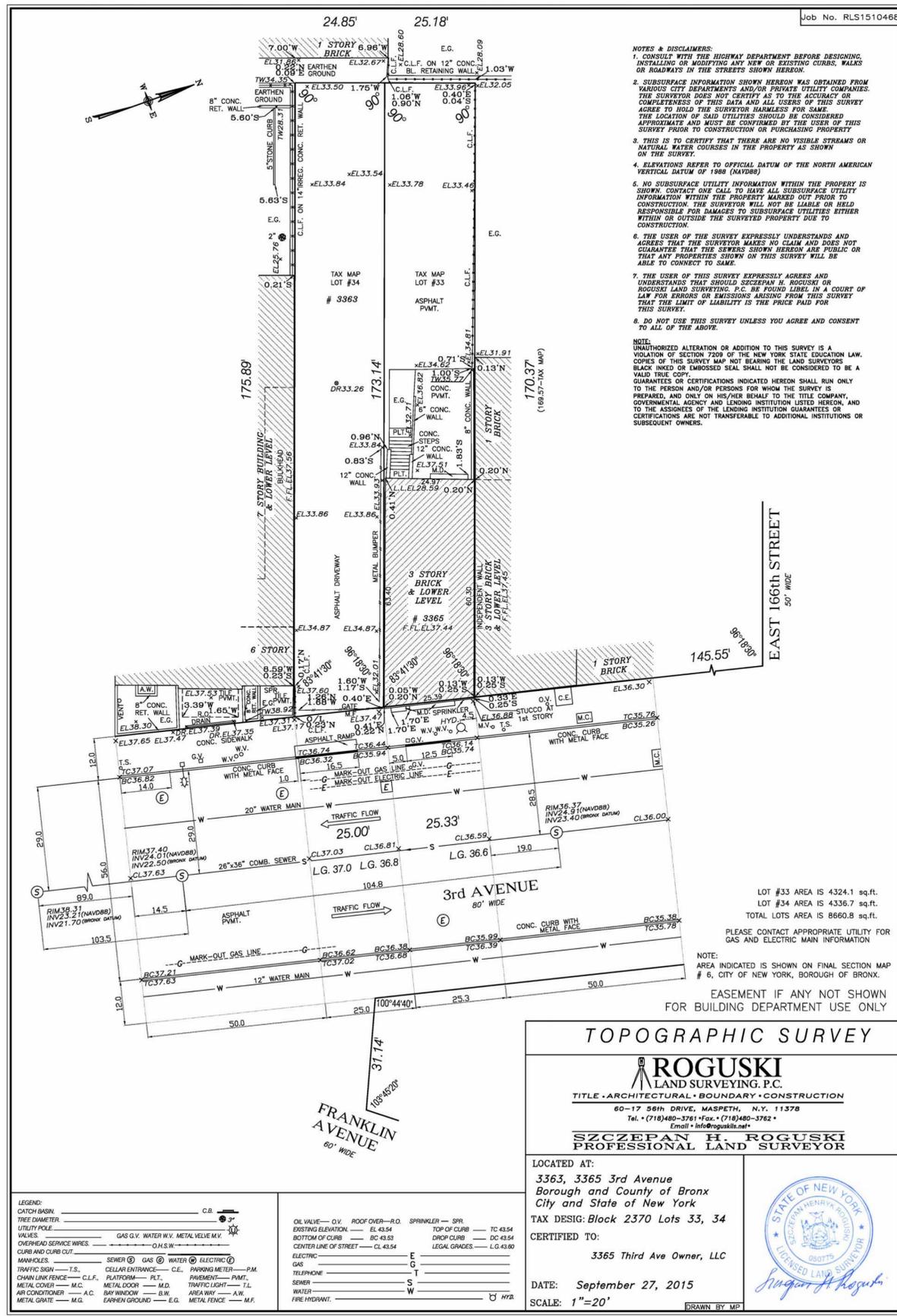
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of



1989 SANBORN MAP

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LOT #33 AREA IS 4324.1 sq.ft.
LOT #34 AREA IS 4336.7 sq.ft.
TOTAL LOTS AREA IS 8660.8 sq.ft.
PLEASE CONTACT APPROPRIATE UTILITY FOR GAS AND ELECTRIC MAIN INFORMATION

NOTE:
AREA INDICATED IS SHOWN ON FINAL SECTION MAP # 6, CITY OF NEW YORK, BOROUGH OF BRONX.

EASEMENT IF ANY NOT SHOWN FOR BUILDING DEPARTMENT USE ONLY

TOPOGRAPHIC SURVEY

ROGUSKI
LAND SURVEYING, P.C.

TITLE - ARCHITECTURAL - BOUNDARY - CONSTRUCTION
60-17 58th DRIVE, MASPETH, N.Y. 11378
Tel. (718)480-3761 • Fax. (718)480-3762 •
Email: info@roguski.com

SZCZEPAN H. ROGUSKI
PROFESSIONAL LAND SURVEYOR

LOCATED AT:
3363, 3365 3rd Avenue
Borough and County of Bronx
City and State of New York
TAX DESIG: Block 2370 Lots 33, 34

CERTIFIED TO:
3365 Third Ave Owner, LLC

DATE: September 27, 2015
SCALE: 1"=20'

DRAWN BY: MP



3365 THIRD AVE

3365 Third Ave Bronx, NY 10456

Owner
3365 THIRD AVE OWNER, LLC
1605 Dr. Martin Luther King Jr. Blvd.
Bronx, NY 10453

Architect
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299 Broadway, Suite 1107
New York, New York 10007

Structural Engineer
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15 Reservoir Road
White Plains, New York 10603

MEP
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New York, New York 10001

BPP
SULLIVAN GROUP DESIGN, LLC
109 West 27th Street
New York, NY 10001

STEVEN WINTERS ASSOCIATES, INC
307 Seventh Ave, Suite 1701
New York, NY 10001

| No. | Date | Revision |
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| | | |

Title:
SURVEY & SANBORN
MAP (FOR
REFERENCE ONLY)

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Job No.: 1507

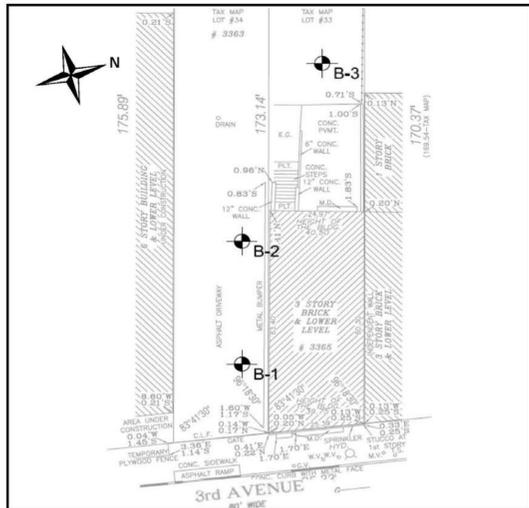
Scale:

Drawn By: CN/AG/EG

Checked By: MEG

Sheet No.: **V-001.00**

of



LEGEND: B-X Indicates the numbers and approximate locations of test borings performed for this study.

*Base plan provided by Roguski Land Surveying P.C. dated December 22, 2014

BORING LOCATION PLAN

3365 THIRD AVENUE
Borough of The Bronx
New York

Prepared For: Bronx ProGroup

DESIGN BY: [Redacted] DRAWN BY: DF REVIEWED BY: RD
SCALE: NTS DATE: JULY 2015 PROJECT #: 34150984

Figure 2

LOG OF BORING NO. B-1 Sheet 1 of 1

PROJECT: 3365 Third Avenue
PROJECT NO.: 34150984
PROJECT LOCATION: Bronx, New York

WATER LEVEL (ft): NE NE NA
DATE: 6-22-15 6-22-15 6-22-15
CAVED (ft): NA NA BOC

DATE STARTED: 6-22-15
DATE COMPLETED: 6-22-15
DRILLING CONTRACTOR: DK Drilling of NY
DRILLER: Dorbal
DRILLING METHOD: Mud-Rotary
SAMPLING METHOD: SPT

HAMMER TYPE: Automatic
GROUND SURFACE ELEVATION: 33.5
DATUM: TOPO
EQUIPMENT: Simco 2800
LOGGED BY: JS
CHECKED BY: RD

| SAMPLE NUMBER | SAMPLE DEPTH (ft) | SAMPLE RECOVERY (ft) | SAMPLE BLOWNIS INCHES | N (blows/ft) | ELEVATION (ft) | DEPTH (ft) | USCS | DESCRIPTION | REMARKS |
|---------------------------|-------------------|----------------------|-----------------------|--------------|----------------|------------|-------|--|---------|
| S1 | 0.0 | 11 | 22-24-25-26 | 40 | 33.5 | 0 | FILL | +/- 6 in. Asphalt FILL: Dark brown, moist, dense, silty sand with gravel and construction debris (Class 7) | |
| S2 | 5.0 | 12 | 3-2-1-1 | 3 | | 5 | | - very loose | |
| S3 | 10.0 | 18 | 1-1-7-8 | 8 | 24.0 | 10 | SP-SM | Dark-brown, moist, loose, Poorly-graded SAND with silt and gravel (Class 6) | |
| S4 | 15.0 | 12 | 5-4-4-7 | 8 | | 15 | | - light-brown | |
| S5 | 20.0 | 10 | 14-10-4-10 | 14 | | 20 | | - medium dense (Class 3b) | |
| S6 | 25.0 | 18 | 8-10-11-12 | 21 | | 25 | | | |
| Boring Complete at 27 Ft. | | | | | | | | | |

NOTES: BOC = Backfilled on Completion

GEO-TECHNOLOGY ASSOCIATES, INC. 211-K Gates Road, Little Ferry, NJ 07643

LOG OF BORING NO. B-1 Sheet 1 of 1

LOG OF BORING NO. B-2 Sheet 1 of 1

PROJECT: 3365 Third Avenue
PROJECT NO.: 34150984
PROJECT LOCATION: Bronx, New York

WATER LEVEL (ft): NE NE NA
DATE: 6-22-15 6-22-15 6-22-15
CAVED (ft): NA NA BOC

DATE STARTED: 6-22-15
DATE COMPLETED: 6-22-15
DRILLING CONTRACTOR: DK Drilling of NY
DRILLER: Dorbal
DRILLING METHOD: Mud-Rotary
SAMPLING METHOD: SPT

HAMMER TYPE: Automatic
GROUND SURFACE ELEVATION: 33.5
DATUM: TOPO
EQUIPMENT: Simco 2800
LOGGED BY: JS
CHECKED BY: RD

| SAMPLE NUMBER | SAMPLE DEPTH (ft) | SAMPLE RECOVERY (ft) | SAMPLE BLOWNIS INCHES | N (blows/ft) | ELEVATION (ft) | DEPTH (ft) | USCS | DESCRIPTION | REMARKS |
|---------------------------|-------------------|----------------------|-----------------------|--------------|----------------|------------|-------|--|---------|
| S1 | 0.0 | 11 | 18-21-10-10 | 31 | 33.5 | 0 | FILL | FILL: Dark-brown, moist, dense, poorly graded and with construction debris (Class 7) | |
| S2 | 5.0 | 11 | 6-4-2-6 | 6 | | 5 | | - loose | |
| S3 | 10.0 | 17 | 4-12-12-15 | 24 | 23.5 | 10 | SP-SM | Brown, moist, medium dense, Poorly-graded SAND with silt (Class 3b) | |
| S4 | 15.0 | 8 | 1-1-4-2 | 5 | | 15 | | - red-brown, loose (Class 6) | |
| S5 | 20.0 | 1 | 1001" | 100+ | | 20 | | - very dense (Class 3a) | |
| S6 | 25.0 | 1 | 1001" | 100+ | | 25 | | | |
| Boring Complete at 27 Ft. | | | | | | | | | |

NOTES: BOC = Backfilled on Completion

GEO-TECHNOLOGY ASSOCIATES, INC. 211-K Gates Road, Little Ferry, NJ 07643

LOG OF BORING NO. B-2 Sheet 1 of 1

LOG OF BORING NO. B-3 Sheet 1 of 2

PROJECT: 3365 Third Avenue
PROJECT NO.: 34150984
PROJECT LOCATION: Bronx, New York

WATER LEVEL (ft): NE NE NA
DATE: 6-23-15 6-23-15 6-23-15
CAVED (ft): NA NA BOC

DATE STARTED: 6-22-15
DATE COMPLETED: 6-23-15
DRILLING CONTRACTOR: DK Drilling of NY
DRILLER: Kostas
DRILLING METHOD: Mud-Rotary
SAMPLING METHOD: SPT

HAMMER TYPE: Automatic
GROUND SURFACE ELEVATION: 33.5
DATUM: TOPO
EQUIPMENT: CME 75
LOGGED BY: ER
CHECKED BY: RD

| SAMPLE NUMBER | SAMPLE DEPTH (ft) | SAMPLE RECOVERY (ft) | SAMPLE BLOWNIS INCHES | N (blows/ft) | ELEVATION (ft) | DEPTH (ft) | USCS | DESCRIPTION | REMARKS |
|---------------|-------------------|----------------------|-----------------------|--------------|----------------|------------|------|--|---------|
| S1 | 0.0 | 14 | 11-5-6-9 | 11 | 33.5 | 0 | FILL | FILL: Dark-brown, moist, medium dense, poorly-graded sand with construction debris (Class 7) | |
| S2 | 5.0 | 12 | 11-4-4-3 | 8 | | 5 | | - loose | |
| S3 | 10.0 | 12 | 5-4-4-5 | 8 | 23.5 | 10 | SM | Brown, moist, loose, Silty SAND with gravel (Class 6) | |
| S4 | 15.0 | 11 | 13-16-9-12 | 25 | | 15 | | - tan-brown, medium dense, (Class 3b) | |
| S5 | 20.0 | 14 | 50-44-21-21 | 65 | 13.5 | 20 | GM | Tan-brown, moist, very dense, Silty GRAVEL with sand (Class 3a) | |
| S6 | 25.0 | 8 | 42-1001" | 100+ | | 25 | | | |
| S7 | 30.0 | 10 | 36-1001" | 100+ | | 30 | | | |
| S8 | 35.0 | 21 | 12-17-20-22 | 37 | -1.5 | 35 | CL | Red-gray, moist, hard, CLAY (Class 4a) | |
| S9 | 40.0 | 22 | 9-12-17-19 | 29 | | 40 | | | |
| S10 | 45.0 | 21 | 10-16-19-21 | 35 | -14.5 | 45 | SC | Green-gray, moist, dense, Clayey SAND (Class 4s) | |
| S11 | 50.0 | 21 | 15-21-20-32 | 41 | -19.5 | 50 | | | |
| S12 | 55.0 | 7 | 40-1001" | 100+ | | 55 | HW | Red-tan, Decomposed ROCK (Class 1d) | |

NOTES: BOC = Backfilled on Completion

GEO-TECHNOLOGY ASSOCIATES, INC. 211-K Gates Road, Little Ferry, NJ 07643

LOG OF BORING NO. B-3 Sheet 1 of 2

LOG OF BORING NO. B-3 Sheet 2 of 2

PROJECT: 3365 Third Avenue
PROJECT NO.: 34150984
PROJECT LOCATION: Bronx, New York

WATER LEVEL (ft): NE NE NA
DATE: 6-23-15 6-23-15 6-23-15
CAVED (ft): NA NA BOC

DATE STARTED: 6-22-15
DATE COMPLETED: 6-23-15
DRILLING CONTRACTOR: DK Drilling of NY
DRILLER: Kostas
DRILLING METHOD: Mud-Rotary
SAMPLING METHOD: SPT

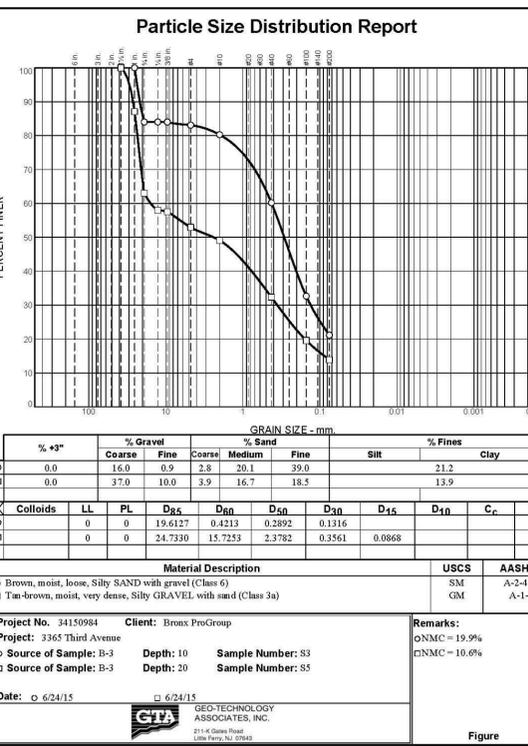
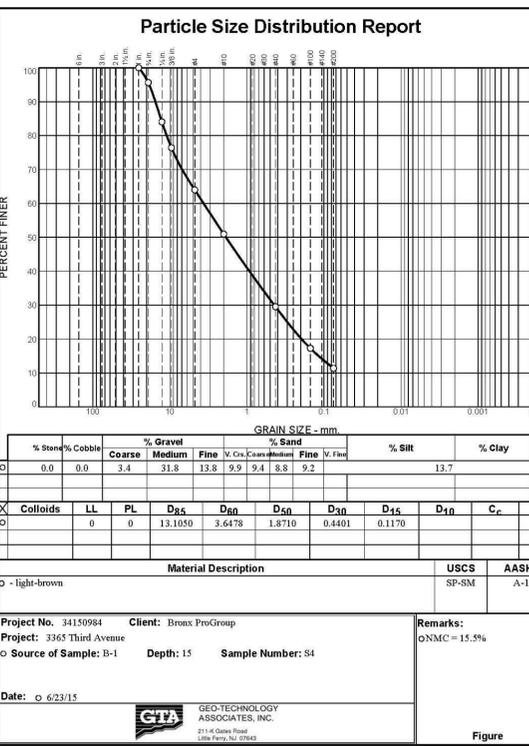
HAMMER TYPE: Automatic
GROUND SURFACE ELEVATION: 33.5
DATUM: TOPO
EQUIPMENT: CME 75
LOGGED BY: ER
CHECKED BY: RD

| SAMPLE NUMBER | SAMPLE DEPTH (ft) | SAMPLE RECOVERY (ft) | SAMPLE BLOWNIS INCHES | N (blows/ft) | ELEVATION (ft) | DEPTH (ft) | USCS | DESCRIPTION | REMARKS |
|---------------|-------------------|----------------------|-----------------------|--------------|----------------|------------|------|---|---------|
| S13 | 60.0 | 0 | 1001" | 100 | | 60 | | Decomposed ROCK (Class 1d) | |
| | | | | | -31.5 | 70 | ROCK | Slightly to moderately weathered, moderately hard, fair, Gneiss BEDROCK (Class 1c) | |
| | | | | | -36.5 | 70 | | NX Rock Core Run from 65 to 70 Ft. REC = 59.60 = 83.3% ROD = 40.60 = 66.7% Boring Complete at 70 Ft. | |

ASTM Specifications performed in accordance with D421, D422, D2216, D2217, and D4318.

GEO-TECHNOLOGY ASSOCIATES, INC. 211-K Gates Road, Little Ferry, NJ 07643

LOG OF BORING NO. B-3 Sheet 2 of 2



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STEVEN WINTERS ASSOCIATES, INC
307 Seventh Ave, Suite 1701
New York, NY 10001

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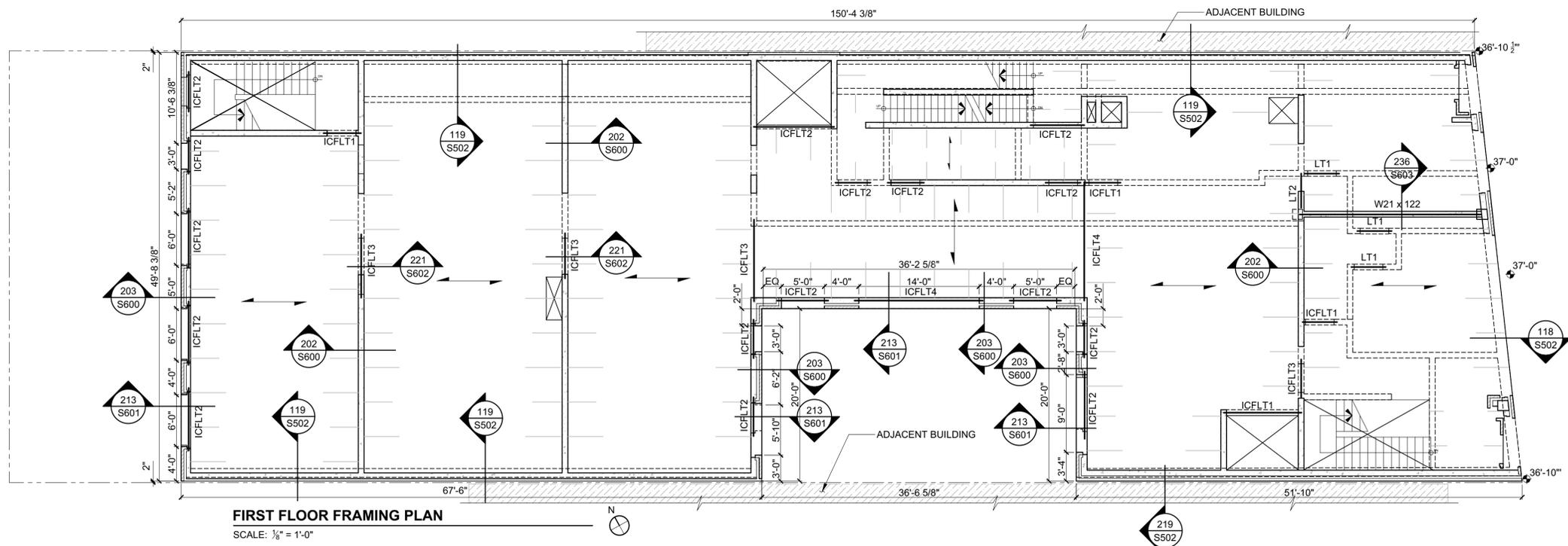
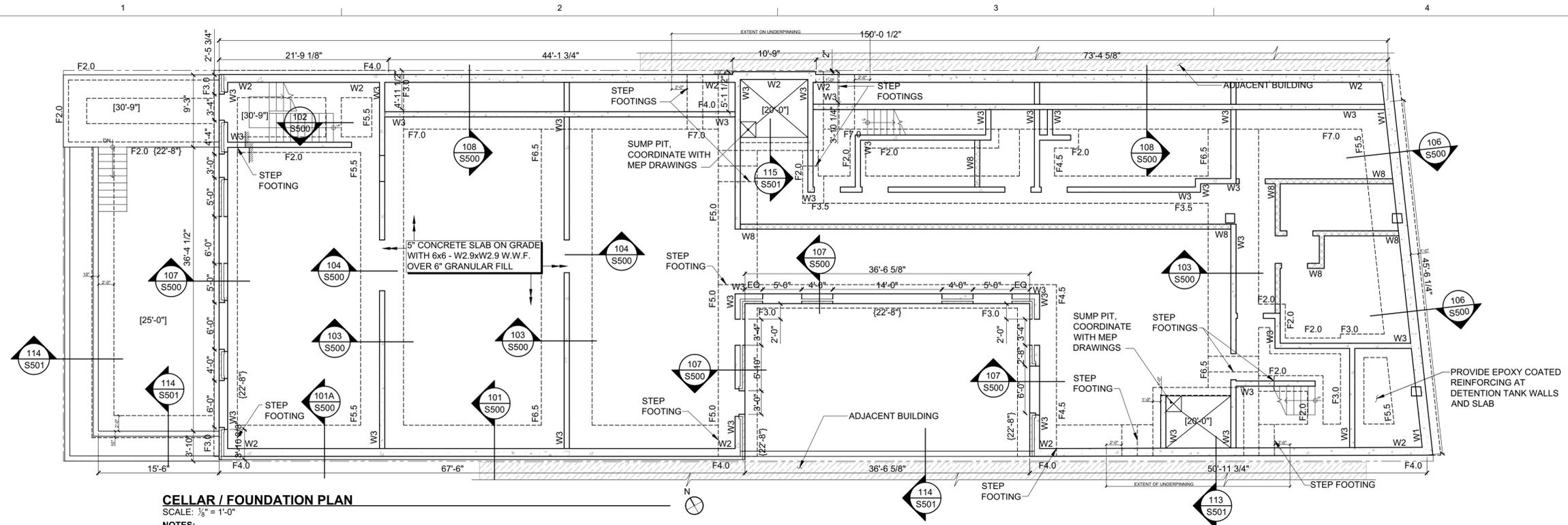
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| | | |

Title:
BORING LOGS

REGISTERED ARCHITECT
CURTIS + GINSBERG
STATE OF NEW YORK
NO. 019534

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3365 THIRD AVE

3365 Third Ave Bronx, NY 10456

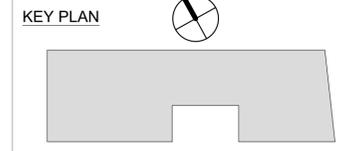
Owner
BRONX PRO GROUP
1605 Dr. Martin Luther King Jr. Blvd.
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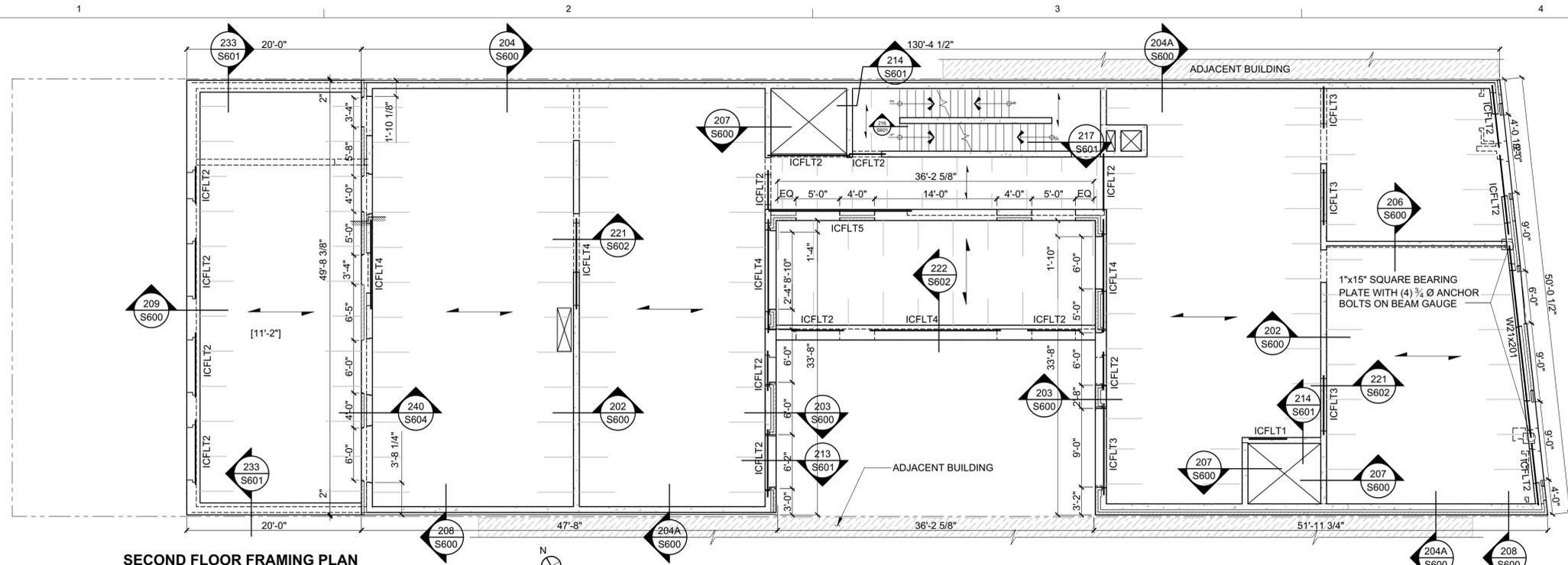
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CELLAR/FOUNDATION AND FIRST FLOOR FRAMING PLAN



Job No.: 15006.00
Scale: As indicated
Drawn By: SAB
Checked By: JR

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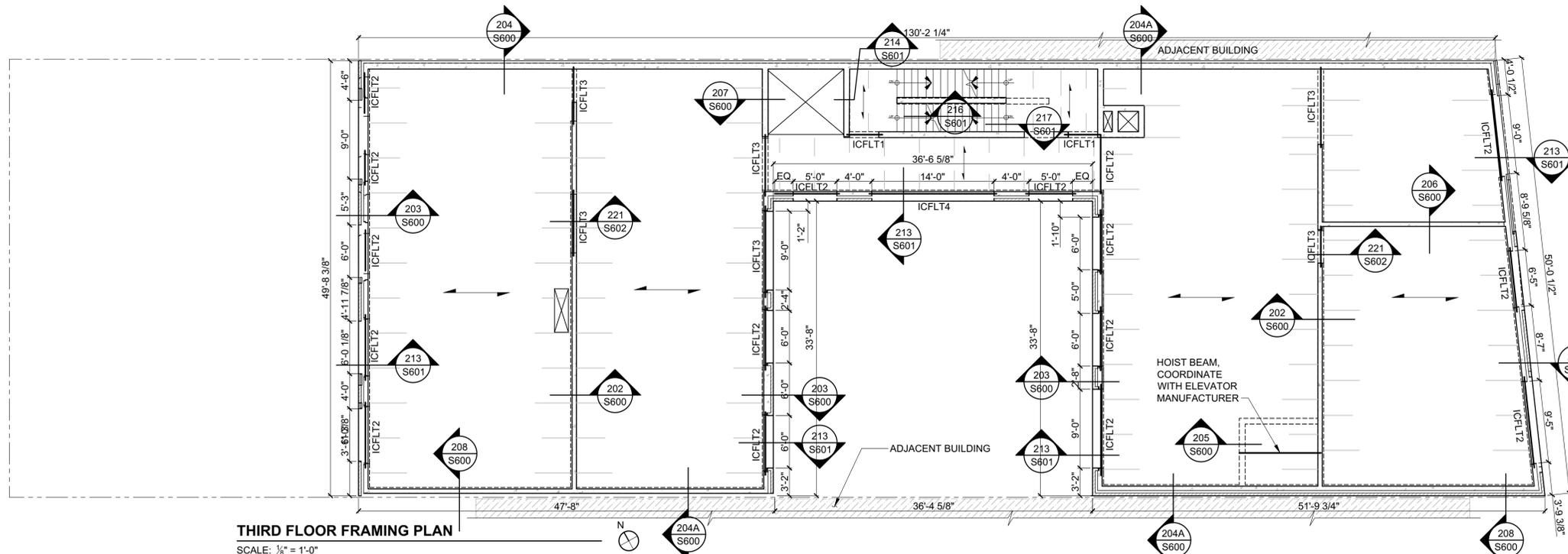


SECOND FLOOR FRAMING PLAN

SCALE: 1/8" = 1'-0"

NOTES:

1. REPRESENTS SPAN DIRECTION OF 8" PRECAST CONCRETE HOLLOW CORE SLAB.
2. VERIFY ALL DIMENSIONS, COORDINATES, AND ELEVATIONS WITH ARCHITECT.
3. TOP OF PRECAST PLANK ELEVATION AT SECOND FLOOR = [49'-0"] UNLESS NOTED OTHERWISE [****]. VERIFY WITH ARCHITECTURAL DRAWINGS.
4. SEE S-400 SERIES DRAWINGS FOR GENERAL STRUCTURAL NOTES, SCHEDULES AND TYPICAL DETAILS.
5. VERIFY LOCATION OF ALL PLANK AND WALL PENETRATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.



THIRD FLOOR FRAMING PLAN

SCALE: 1/8" = 1'-0"

NOTES:

1. REPRESENTS SPAN DIRECTION OF 8" PRECAST CONCRETE HOLLOW CORE SLAB.
2. VERIFY ALL DIMENSIONS, COORDINATES, AND ELEVATIONS WITH ARCHITECT.
3. TOP OF PRECAST PLANK ELEVATION AT THIRD FLOOR = [58'-4"] UNLESS NOTED OTHERWISE [****]. VERIFY WITH ARCHITECTURAL DRAWINGS.
4. SEE S-400 SERIES DRAWINGS FOR GENERAL STRUCTURAL NOTES, SCHEDULES AND TYPICAL DETAILS.
5. VERIFY LOCATION OF ALL PLANK AND WALL PENETRATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

3365 THIRD AVE

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KEY PLAN



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2ND AND 3RD FLOOR FRAMING PLANS



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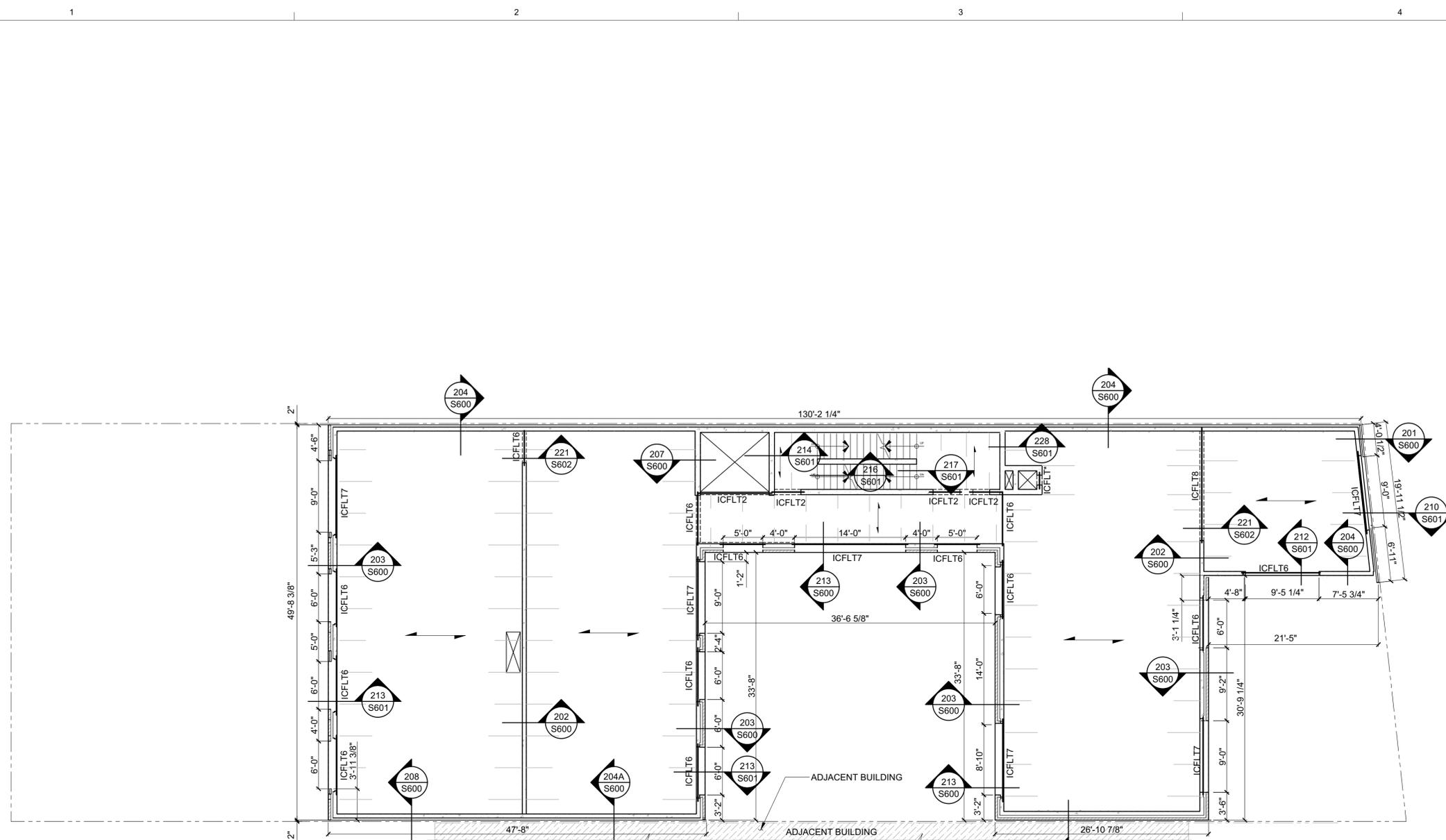
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EIGHTH FLOOR FRAMING PLAN
SCALE: 1/8" = 1'-0"

NOTES:

1. REPRESENTS SPAN DIRECTION OF 8" PRECAST CONCRETE HOLLOW CORE SLAB.
2. VERIFY ALL DIMENSIONS, COORDINATES, AND ELEVATIONS WITH ARCHITECT.
3. TOP OF PRECAST PLANK ELEVATION AT EIGHTH FLOOR = [105'-8"] UNLESS NOTED OTHERWISE [***]. VERIFY WITH ARCHITECTURAL DRAWINGS.
4. SEE S-400 SERIES DRAWINGS FOR GENERAL STRUCTURAL NOTES, SCHEDULES AND TYPICAL DETAILS.
5. VERIFY LOCATION OF ALL PLANK AND WALL PENETRATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

3365 THIRD AVE

3365 Third Ave Bronx, NY 10456

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Bronx, NY 10453

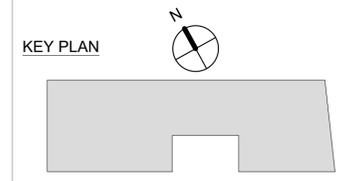
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KEY PLAN



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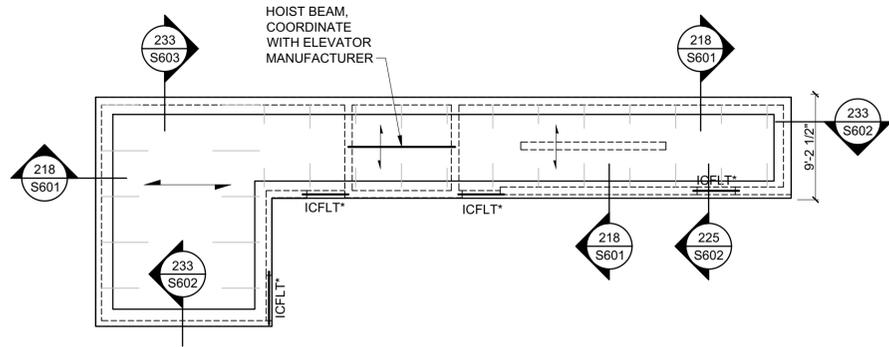
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8TH FLOOR FRAMING PLAN



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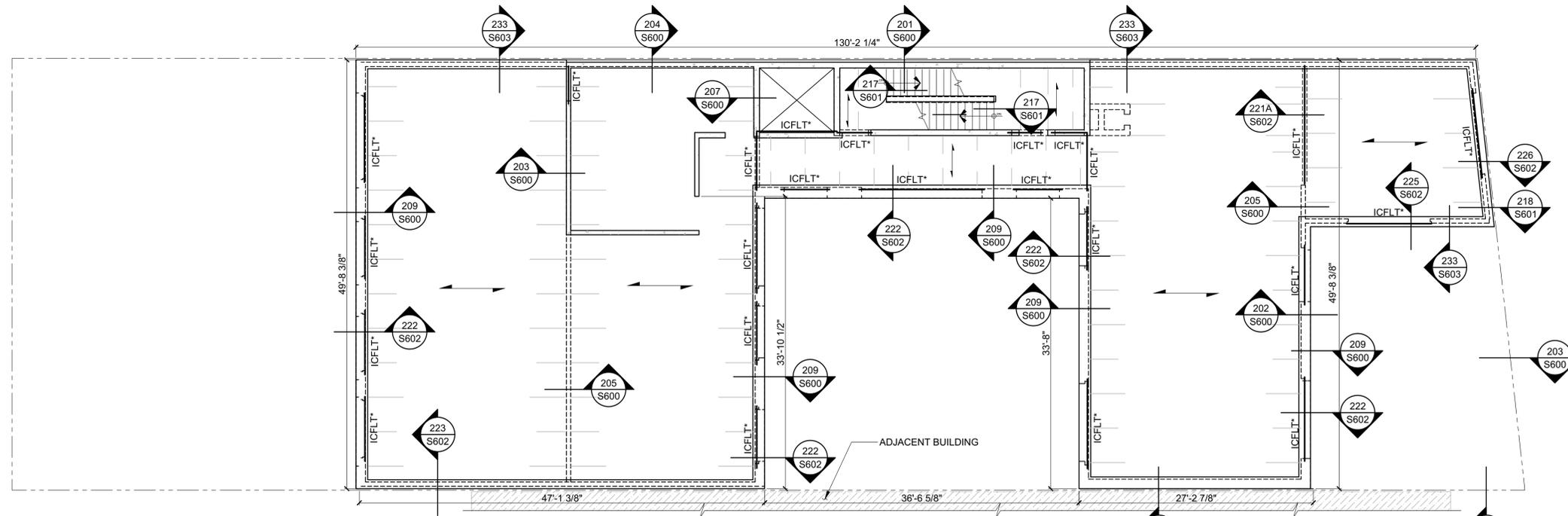


BULKHEAD FRAMING PLAN

SCALE: 1/8" = 1'-0"

NOTES:

1. REPRESENTS SPAN DIRECTION OF 8" PRECAST CONCRETE HOLLOW CORE SLAB.
2. VERIFY ALL DIMENSIONS, COORDINATES, AND ELEVATIONS WITH ARCHITECT.
3. TOP OF PRECAST PLANK ELEVATION AT BULKHEAD = [125'-8"] UNLESS NOTED OTHERWISE ["**-*"]. VERIFY WITH ARCHITECTURAL DRAWINGS.
4. SEE S-400 SERIES DRAWINGS FOR GENERAL STRUCTURAL NOTES, SCHEDULES AND TYPICAL DETAILS.
5. VERIFY LOCATION OF ALL PLANK AND WALL PENETRATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.



ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

NOTES:

1. REPRESENTS SPAN DIRECTION OF 8" PRECAST CONCRETE HOLLOW CORE SLAB.
2. VERIFY ALL DIMENSIONS, COORDINATES, AND ELEVATIONS WITH ARCHITECT.
3. TOP OF PRECAST PLANK ELEVATION AT ROOF = [115'-8"] UNLESS NOTED OTHERWISE ["**-*"]. VERIFY WITH ARCHITECTURAL DRAWINGS.
4. SEE S-400 SERIES DRAWINGS FOR GENERAL STRUCTURAL NOTES, SCHEDULES AND TYPICAL DETAILS.
5. VERIFY LOCATION OF ALL PLANK AND WALL PENETRATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

3365 THIRD AVE

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KEY PLAN



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ROOF AND BULKHEAD FRAMING PLAN



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 of **S-300.00**

GENERAL STRUCTURAL NOTES

(APPLIES UNLESS OTHERWISE NOTED)

GENERAL:

- ALL WORK SHALL COMPLY WITH THE NEW YORK CITY BUILDING CODE, AND ALL OTHER APPLICABLE CODES AND REGULATIONS OF AGENCIES HAVING JURISDICTION.
- WORK THESE DRAWINGS WITH THE SPECIFICATIONS, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, SITE DRAWINGS AND ALL OTHER RELATED DOCUMENTS. CONTRACTOR SHALL COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS AND SHALL VERIFY ALL DATA ON EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS WITH APPROPRIATE TRADES, DRAWINGS, AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. DO NOT PENETRATE ANY STRUCTURAL ELEMENTS WITH OUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
- SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR INFORMATION NOT COVERED BY THE GENERAL STRUCTURAL NOTES OR THE STRUCTURAL DRAWINGS, WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES, AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.
- THE CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND/OR SHORING FOR ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION. VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NO INCLUDE INSPECTION OF TEMPORARY ERECTION BRACING AND/OR SHORING.
- ANY ENGINEERING DESIGN PROVIDED BY OTHERS SHALL BEAR THE SEAL OF A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
- TYPICAL DETAILS ARE NOT CUT ON THE DRAWINGS, BUT APPLY UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH ARCHITECT. DO NOT SCALE DRAWINGS, USE FIGURED DIMENSIONS.
- CONTRACT DOCUMENTS MAY NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS.

LOADS:

- ALL FLOOR LOAD, ROOF LOADS, WIND LOADS AND SEISMIC LOADS ARE PER THE NEW YORK CITY BUILDING CODE. STRUCTURAL OCCUPANCY CATEGORY = I

LOAD SCHEDULE:

| | |
|---------------------------------------|--|
| FLOOR LIVE LOAD | 40 PSF |
| FLOOR DEAD LOAD | 85 PSF (20 PSF SUPERIMPOSED, INCLUDES 12 PSF PARTITION LOAD) |
| ROOF LIVE LOAD | 30 PSF |
| ROOF DEAD LOAD | 85 PSF (20 PSF SUPERIMPOSED) |
| STAIR LIVE LOAD | 100 PSF |
| LOBBY LIVE LOAD | 100 PSF |
| ELEVATOR MACHINE ROOM LIVE LOAD | 150 PSF |
| MECHANICAL ROOM LIVE LOAD | 75 PSF |
| COMMUNITY ROOM LIVE LOAD | 100 PSF |
| FIRST FLOOR CORRIDOR LIVE LOAD | 100 PSF |
| STORAGE LIVE LOAD | 100 PSF |
| LAUNDRY ROOM LIVE LOAD | 100 PSF |
| TERRACE LIVE LOAD | 60 PSF |
| TERRACE DEAD LOAD | 110 PSF (45 PSF SUPERIMPOSED) |

BUILDING ROOF SNOW LOADS:

Pf = 17.5 PSF
 Ce = 1.0
 I = 1.0
 Ct = 1.0

SNOW DRIFT LOADS TO BE IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE, SEE ALSO SNOW DRIFT TYPICAL DETAIL

WIND DESIGN INFORMATION:

BASIC WIND SPEED = 98 MPH
 WIND IMPORTANCE FACTOR, I = 1.0
 WIND EXPOSURE = B
 DESIGN WIND PRESSURE FOR COMPONENTS AND CLADDING = 30 PSF.

SEISMIC DESIGN INFORMATION:

Ie = 1.0
 Ss = .365g,
 Si = .071g,
 SITE CLASS = D
 Sps = 0.367
 Spv = 0.114
 SEISMIC DESIGN CATEGORY = B
 BASIC SEISMIC - FORCE - RESISTING SYSTEM = BEARING WALL SYSTEM WITH ORCSW
 DESIGN BASE SHEAR = 980 KIPS
 Cs = 0.057
 R = 4.0
 ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE PROCEDURE

FOUNDATIONS:

- FOUNDATION DESIGNED IS BASED UPON GEOTECHNICAL REPORT DATED JULY 21, 2015, PREPARED BY GTA ENGINEERING SERVICES OF NEW YORK, P.C.. ALL FOOTINGS ARE TO BEAR ON FIRM UNDISTURBED NATIVE SOIL, OR ENGINEERED FILL WITH A MINIMUM ALLOWABLE BEARING PRESSURE OF 6,000 PSF. THE ALLOWABLE SOIL BEARING PRESSURE IS TO BE VERIFIED IN THE FIELD BY A NEW YORK LICENSED PROFESSIONAL ENGINEER. CONTRACTOR SHALL OBTAIN A COPY OF THE SOIL BORINGS AND RECOMMENDATIONS LETTER AS IT IS A PART OF THE CONTRACT DOCUMENTS.
- FOOTINGS ARE NOT TO BE CAST ON UNCONTROLLED FILL, SOIL, ORGANIC MATERIAL, FROZEN GROUND, MUD, SOFT CLAYS OR OTHER OBJECTIONABLE OR UNAPPROVED MATERIALS.
- FOUNDATION WALLS ARE NOT DESIGNED AS FREE-STANDING WALLS. DO NOT PLACE ANY BACKFILL AGAINST WALLS UNLESS BASEMENT AND FIRST FLOOR CONSTRUCTION HAS BEEN COMPLETED. ANY AREA BACKFILLED FOR ACCESS MUST BE ADEQUATELY BRACED TO WITHSTAND EARTH PRESSURE AND CONSTRUCTION LOADS.
- DEWATERING OF THE SITE (IF REQUIRED) DURING CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. METHOD OF DEWATERING AND THE ENGINEERING REQUIRED TO PERFORM DEWATERING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- PROVIDE WATERSTOPS IN ALL CONSTRUCTION JOINTS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- SEE ARCHITECTURAL DRAWINGS FOR WATERPROOFING REQUIREMENTS.
- PROVIDE DOWELS IN FOUNDATIONS TO MATCH SIZE OF AND LAP WITH VERTICAL REINFORCING FOR ALL WALLS, PIERS, AND COLUMNS.

CAST IN PLACE CONCRETE:

- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", LATEST EDITION, AND THE NEW YORK CITY BUILDING CODE.
- ALL CONCRETE FOR CAST IN PLACE WORK AND SLABS ON GRADE SHALL BE STONE AGGREGATE CONCRETE WITH A MINIMUM OF 28 DAY COMPRESSION STRENGTH PER THE FOLLOWING SCHEDULE:
 CONCRETE FOUNDATION WALLS / PIERS..... 4000 PSI
 CONCRETE FOOTINGS..... 4000 PSI
 ALL OTHER CONCRETE UNLESS OTHERWISE NOTED..... 4000 PSI
- MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED.
- ADDITION OF WATER TO THE BATCH FOR THE CONCRETE WITH INSUFFICIENT SLUMP WILL NOT BE PERMITTED.
- NO ADMIXTURE SHALL BE ALLOWED WITHOUT PRIOR REVIEW AND ACCEPTANCE BY THE ENGINEER OF RECORD.
- ALL REQUIREMENTS FOR BATCHING, MIXING, FINISHING, CURING ECT. SHALL BE AS PER ACI 301.
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 EXCEPT REINFORCING TO BE WELDED SHALL CONFORM TO ASTM A706 GRADE 60.
- ALL REINFORCING SHALL BE SECURELY TIED IN PLACE AND ADEQUATELY SUPPORTED BEFORE PLACING CONCRETE. ALL BARS MARKED 'CONTINUOUS' SHALL BE LAPPED PER TYPICAL DETAIL UNLESS OTHERWISE NOTED. ALL SPLICE LOCATIONS SUBJECT TO APPROVAL.
- CONCRETE CONTAINING SUPERPLASTICIZING ADMIXTURE SHALL HAVE A SLUMP NOT EXCEEDING 3", TO BE FIELD VERIFIED, PRIOR TO ADDING ADMIXTURE, AND NOT EXCEEDING 8" AT PLACEMENT.
- PRIOR APPROVAL MUST BE GIVEN BY THE ARCHITECT, AND THE ENGINEER OF RECORD FOR THE USE OF FLY ASH IN THE CONCRETE MIX.
- ALL REINFORCING TO BE WELDED SHALL BE WELDED IN THE ACCORDANCE WITH AWS D1.4 NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF THE PROCEDURE WITH THE ENGINEER OF RECORD.

PRECAST, PRESTRESSED CONCRETE NOTES:

- ALL PRECAST AND PRESTRESSED ITEMS SHOWN OR SPECIFIED SHALL BE MANUFACTURED BY A FABRICATOR WHO HAS BEEN ENGAGED IN SUCH MANUFACTURE AND ERECTION FOR AT LEAST 5 YEARS AND IS ACCEPTABLE TO THE ENGINEER OF RECORD.
- ALL MEMBERS SHALL CONSIST OF CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.
- PRESTRESSING STRAND SHALL CONFORM TO ASTM A416, GRADE 250 OR 270.
- PRODUCE ITEMS OF UNIFORM DIMENSION AND APPEARANCE TO PROVIDE MINIMUM BEARING LENGTH AS DETAILED. DETENSIONING AND DIMENSIONING TOLERANCES SHALL CONFORM TO MNL 116. USE TEST CYLINDERS TO DETERMINE CONCRETE STRENGTHS FOR PURPOSE OF SCHEDULING DETENSIONING.
- CONTINUOUSLY FILL ALL KEYS BETWEEN PLANKS AND THE ENDS OF ALL CORES SOLID WITH A FLOWABLE GROUT CONSISTING OF 1 PART PORTLAND CEMENT, 3 PARTS SAND, AND WATER (3500 PSI MINIMUM)
- SUBMIT SHOP DRAWINGS AND DESIGN COMPUTATIONS WHICH BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED FOR REVIEW BY THE ENGINEER OF RECORD.
- ALL UNITS PLUM AND LEVEL. AVOID DAMAGE AND OVER STRESSING DURING ERECTION. TAKE PARTICULAR CARE IN TRANSPORTING MEMBER TO AVOID FLEXING MEMBERS.
- PROVIDE ADEQUATE SHORES TO CARRY CONSTRUCTION LOADS.
- ALL PRECAST, PRESTRESSED CONCRETE PLANK SHALL BE DESIGNED AND FABRICATED BY THE MANUFACTURER TO HAVE A MINIMUM CARRYING CAPACITY TO SUPPORT IT'S OWN WEIGHT, PLUS DEAD AND LIVE LOADS SHOWN IN THE LOAD SECTION OF THESE GENERAL STRUCTURAL NOTES, CERTAIN EXTERIOR NON-LOAD BEARING WALLS, ADJACENT PANELS AT OPENINGS, SPANDREL WALLS, PARAPETS, ROOFS AND MECHANICAL EQUIPMENT.
- NO OPENINGS WILL BE ALLOWED WITHOUT APPROVAL OF THE ENGINEER OF RECORD.
- SHOP DRAWINGS SHALL DIMENSIONALLY SHOW SIZE AND LOCATION OF ALL OPENINGS AND INSERTS.
- REINFORCING SHOWN ON THE DRAWINGS IS FOR IN-PLACE CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR PICK UP POINT INSERTS AND LOCATIONS, SPECIAL PICK UP REINFORCING AND STRONG BACK, AND ALL PICK UP AND PLACING OPERATIONS.

MASONRY CONSTRUCTION NOTES:

- ALL CONCRETE MASONRY UNITS (CMU) SHALL HAVE FULL COMPRESSIVE STRENGTH AS DESIGNATED AT TIME OF PLACEMENT.
- ALL CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO THE NEW YORK CITY BUILDING CODE, THE LATEST EDITION OF THE "NATIONAL CONCRETE MASONRY ASSOCIATION" (NCMA) SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY, AND TO THE LATEST EDITION OF ACI 530, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES". SEE SPECIFICATIONS AND NOTES FOR SPECIFIC CONDITIONS.
- ALL CONCRETE MASONRY UNITS SHOWN ON STRUCTURAL DRAWING SHALL BE NORMAL WEIGHT LOAD BEARING TYPE AS DEFINED IN THESE GENERAL STRUCTURAL NOTES, AND SHALL CONFORM TO ASTM C90 TYPE I. UNITS SHALL BE TWO CELL, WIDTH AS SHOWN ON THE DRAWINGS, WITH A MINIMUM 1 1/2" FACE SHELL THICKNESS.
- GROUT SHALL BE PLACED FULL HEIGHT IN ALL CELLS, BOTH VERTICALLY AND HORIZONTALLY WHICH CONTAIN REINFORCING. CONSOLIDATE GROUT IMMEDIATELY AFTER PLACING.
- ALL MASONRY UNITS SHALL BE LAID IN FULL RUNNING BOND, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- PROVIDE STANDARD WEIGHT (NO. 9. GAGE WIRE) DUR-O-WALL OR DUR-O-WIRE LADDER TYPE JOINT REINFORCING AT 16" O.C. VERTICALLY.

MASONRY CONSTRUCTION NOTES:

- ALL MASONRY UNITS TO BE LAID IN MORTAR TYPE S AND SHALL CONFORM TO ASTM C270. MASONRY CEMENT SHALL NOT BE USED.
- GROUT FOR CORES, BOND BEAMS, AND WITHIN MASONRY UNITS SHALL CONFORM TO ASTM C476 FINE GROUT. NO ADMIXTURE TO BE ADDED. PROVIDE CLEAN OUTS IF GROUT LIFT EXCEEDS 5'-0". MAXIMUM GROUT LIFT SHALL BE 10'-0" UNLESS NOTED OTHERWISE ON PLANS.
- ALL CONCRETE MASONRY UNITS TO BE LAID IN FULL BED OF MORTAR, SHELL FACE AND WEBS.
- ALL WALLS TO HAVE TEMPORARY HORIZONTAL BRACING AS REQUIRED DURING WALL CONSTRUCTION BEFORE FLOOR/ROOF HAS BEEN COMPLETED.
- PROVIDE #4 BARS WHERE REINFORCING IS SHOWN IN DETAILS, UNLESS NOTED OTHERWISE. LAP SPLICES SHALL BE 40 BAR DIAMETER FOR GRADE 40 BARS, AND 48 BAR DIAMETERS FOR GRADE 60 BARS. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION TO MATCH VERTICAL WALL OR COLUMN REINFORCING. PROVIDE ONE BAR IN MINIMUM 8" DEEP GROUTED CONTINUOUS BOND BEAM AT TOP OF PARAPET OR TOP OF FREE STANDING MASONRY WALL PROVIDE BENT BARS, TO MATCH HORIZONTAL BOND BEAM REINFORCING AT CORNERS AND WALL INTERSECTIONS.
- VERTICAL REINFORCING (SIZE TO MATCH VERTICAL WALL REINFORCING) SHALL BE PROVIDED CONTINUOUSLY AT EACH WALL CORNER, AT EACH SIDE OF AN OPENING, AT EACH END OF WALL, AND AT A MAXIMUM SPACING AS SHOWN IN THE WALL SCHEDULE. VERTICAL REINFORCING SHALL BE CENTERED IN CELL UNLESS NOTED OTHERWISE.
- HORIZONTAL REINFORCING (1- #4 AT 4" CMU AND 6" CMU, 2- #5 AT 8" CMU AND 12" CMU) SHALL BE PROVIDED: (1) AT THE BOTTOM AND TOP OF WALL OPENINGS AND SHALL EXTEND NOT LESS THAN 24" NOR LESS THAN 40 BAR DIAMETERS PAST THE OPENING, (2) CONTINUOUSLY AT ELEVATED FLOOR AND ROOF LEVELS AND AT TOP OF WALL.
- MINIMUM fm = 1500 PSI, AND SHALL BE VERIFIED BY THE UNIT STRENGTH METHOD, OR THE PRISM TEST METHOD AS OUTLINED IN ACI 530.1.

STRUCTURAL STEEL:

- ALL STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE AISC "SPECIFICATIONS STRUCTURAL STEEL FOR BUILDINGS" 9TH EDITION AND ALL CURRENT SUPPLEMENTS AND ADDEDA. FOR OTHER CODE AND SPECIFICATION REQUIREMENTS, SEE THE CONTRACT SPECIFICATIONS.
- ALL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992 (50 KSI). ALL OTHER STEEL SHAPES, PLATES, BARS, AND RODS, SHALL CONFORM TO ASTM A36 (36KSI), UNLESS NOTED OTHERWISE.
- ALL STEEL PIPE SHALL CONFORM TO ASTM A53 TYPE E, GRADE B OR TYPE S GRADE B. ALL STEEL TUBES SHALL CONFORM TO ASTM A500, GRADE B.
- ALL BOLTS SHALL BE 1" DIAMETER ASTM A325 BOLTS IN THE BEARING TYPE CONNECTIONS, UNLESS OTHERWISE NOTED SPECIFICALLY ON THE DRAWINGS. PROVIDE A MINIMUM 2 BOLTS PER CONNECTION, UNLESS SHOWN OTHERWISE ON THE DRAWING.
- ALL ANCHOR BOLTS SHALL CONFORM TO ASTM A307, UNLESS NOTED OTHERWISE.
- ALL WELDING WORK SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE. AWS D1.1 ALL WELDING WORK SHALL BY AWS CERTIFIED WELDERS. FIELD WELDING SHALL BE DONE BY THE MANUAL SHIELDED METAL ARC WELDING METHOD. ALL WELDS ARE SHOWN IN THE DETAILS AS SHOP WELDS. THE CONTRACTOR MAY FIELD WELD OR SHOP WELD AT HIS DISCRETION. FIELD WELDS SHOULD BE SHOWN ON THE SHOP DRAWINGS.
- ALL WELDING ELECTRODES SHALL BE E70XX LOW HYDROGEN, USE E80XX FOR A706 REINFORCING BARS.
- WHERE NO WELDING IS SHOWN IN CONNECTING THE STEEL ELEMENTS, PROVIDE A 1/4" FILLET WELD ALL AROUND, UNLESS A LARGER WELD SIZE IS REQUIRED AS A MINIMUM SIZE BY AISC.
- ALL GROOVE WELDS SHALL BE AWS PREQUALIFIED COMPLETE JOINT PENETRATION GROOVE WELDS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- ALL BOLTS, ANCHOR BOLTS, EXPANSION BOLTS, ETC. SHALL BE INSTALLED WITH STEEL WASHERS.
- SLAG SHALL BE REMOVED FROM ALL COMPLETE WELDS, AND THE WELD AND ADJACENT BASE METAL SHALL BE CLEANED BY BRUSHING OR OTHER SUITABLE MEANS. WELDED JOINTS SHALL NOT BE PAINTED UNTIL AFTER WELDING HAS BEEN COMPLETED AND THE WELD HAS BEEN ACCEPTED.
- ALL SHOP CONNECTIONS SHALL BE WELDED, ALL FIELD CONNECTIONS SHALL BE BOLTED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE STEEL TO THE ENGINEER FOR HIS REVIEW, PRIOR TO FABRICATION.
- ALL STEEL SHALL BE CLEANED AS PER SSPC SP2 HAND TOOL CLEANING, OR SSPC SP3, POWER TOOL CLEANING AND BE PAINTED WITH A PRIMER CONFORMING TO SSPC-PAINT 13 (RED OR BROWN ONE COAT SHOP PAINT).
- ALL EXTERIOR, EXPOSED STRUCTURAL STEEL IS TO RECEIVE A SHOP PAINTED PROTECTIVE COATING CONSISTING OF A ZINC RICH PRIMER AND SUITABLE TOP COAT. USE TNEMEC PRODUCT OR EQUAL. FIELD TOUCH-UP PAINT TO MATCH PROPERTIES AND COLOR OF SHOP PAINT SYSTEM.

SPECIAL INSPECTION REQUIREMENTS:

- ALL MATERIALS, ASSEMBLIES, METHODS OF CONSTRUCTION AND SERVICE EQUIPMENT SHALL COMPLY WITH NEW YORK CITY BUILDING CODE REQUIREMENTS FOR ACCEPTANCE AND SPECIAL INSPECTION.
- DETAILED REQUIREMENTS OF INSPECTION AND TESTING WILL COMPLY WITH NEW YORK CITY BUILDING CODE SECTION 1704.
- STRUCTURAL TR-1 FORMS TO BE FILED:
 A. CONCRETE -CAST-IN-PLACE
 B. CONCRETE - PRESTRESSED
 C. CONCRETE - PRECAST
 D. MASONRY
 E. STRUCTURAL STEEL - WELDING
 F. STRUCTURAL STEEL - DETAILS
 G. STRUCTURAL STEEL - HIGH STRENGTH BOLTING
 H. SUBGRADE INSPECTION
 I. EXCAVATION - SHEETING, SHORING AND BRACING
 J. CONCRETE / DESIGN MIX
 K. CONCRETE SAMPLING AND TESTING
 L. FOOTING AND FOUNDATION
 M. UNDERPINNING

**ISSUED FOR DOB REVIEW
10/19/15**

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 New York, NY 10001

KEY PLAN



| No. | Date | Revision |
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10/19/15 DOB SUBMISSION

| No. | Date | Submission |
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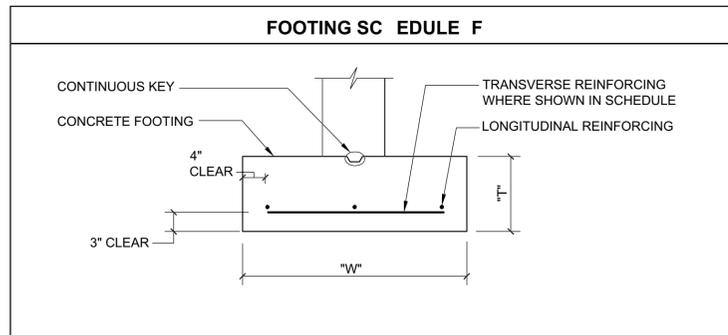
Title:

GENERAL STRUCTURAL NOTES

Job No.: 15006.00
 Scale: As indicated
 Drawn By: SAB
 Checked By: JR

Sheet No.: _____ of _____

S-400.00



| MAR | FOOTING SI E | | REINFORCING | REMAR S |
|------|--------------|-----|------------------------------|---------|
| | W | T | | |
| F2.0 | 24" | 18" | 5 16" O.C. TRANS., 3 4 LONG. | - |
| F3.0 | 36" | 20" | 5 16" O.C. TRANS., 3 4 LONG. | - |
| F3.5 | 42" | 24" | 5 16" O.C. TRANS., 3 4 LONG. | - |
| F4.0 | 48" | 26" | 5 12" O.C. TRANS., 3 4 LONG. | - |
| F4.5 | 54" | 28" | 6 14" O.C. TRANS., 3 4 LONG. | - |
| F5.5 | 66" | 30" | 6 10" O.C. TRANS., 4 4 LONG. | - |
| F6.5 | 78" | 32" | 6 10" O.C. TRANS., 5 4 LONG. | - |
| F7.0 | | | | - |

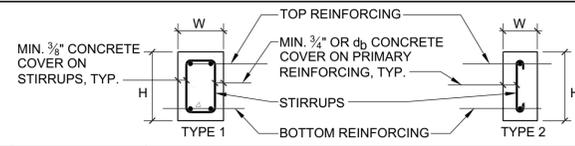
NOTE:
1. MINIMUM ALLOWABLE BEARING PRESSURE OF 6,000 PSF TO BE VERIFIED IN THE FIELD BY A LICENSED PROFESSIONAL ENGINEER.

WALL SC EDULE W

| MAR | WALL T PE | REINFORCING | COMMENTS |
|-----|--------------|-------------|----------|
| W1 | 15" CONCRETE | - | - |
| W2 | 12" CONCRETE | | |
| W3 | 8" CONCRETE | | |
| W4 | 6" CONCRETE | | |
| W5 | 8" CMU | | |

NOTES:
1. FOR ADDITIONAL MASONRY REINFORCING REQUIREMENTS, SEE GENERAL STRUCTURAL NOTES.
2. SOLID GROUT WALL FULL HEIGHT.
3. FOR ADDITIONAL CONCRETE REINFORCING REQUIREMENTS, SEE TYPICAL DETAIL 18 ON SHEET S-***.
4. ELEVATOR AND STAIR SHAFT WALLS ARE NON ICF.

ICF CONCRETE LINTEL SC EDULE ICFLT



| MAR | SI E | | REINFORCING | | | COMMENTS |
|--------|------|-----|-------------|-----|---------------|----------|
| | W | H | BOTTOM | TOP | STIRRUPS | |
| ICFLT1 | 8" | 12" | 2 4 | 2 4 | 2 3 AT 4" O.C | TYPE 1 |
| ICFLT2 | 8" | 12" | 2 4 | 2 5 | 2 3 AT 4" O.C | TYPE 1 |
| ICFLT3 | 8" | 12" | 2 4 | 2 7 | 2 3 AT 4" O.C | TYPE 1 |
| ICFLT4 | 8" | 14" | 2 4 | 2 7 | 2 3 AT 4" O.C | TYPE 1 |
| ICFLT5 | 8" | 16" | 2 4 | 2 7 | 2 3 AT 4" O.C | TYPE 1 |
| ICFLT6 | 6" | 12" | 1 7 | 1 7 | 1 3 AT 3" O.C | TYPE 2 |
| ICFLT7 | 6" | 12" | 1 8 | 1 8 | 1 3 AT 3" O.C | TYPE 2 |
| ICFLT8 | 6" | 16" | 1 8 | 1 8 | 1 3 AT 3" O.C | TYPE 2 |

NOTES:
1. OF STIRRUPS INDICATES THE NUMBER OF VERTICAL LEGS REQUIRED.
2. $f_c = 4000$ PSI MIN. FOR ALL ICF LINTELS.
3. $d_b =$ LONGITUDINAL BAR DIAMETER.
4. LINTELS TO BE CAST INTEGRAL WITH IFC WALLS.

STEEL LINTEL SC EDULE ICFLT

| MAR | SI E | COMMENTS |
|-----|------|----------|
| LT1 | | |
| LT2 | | |
| | | |
| | | |
| | | |

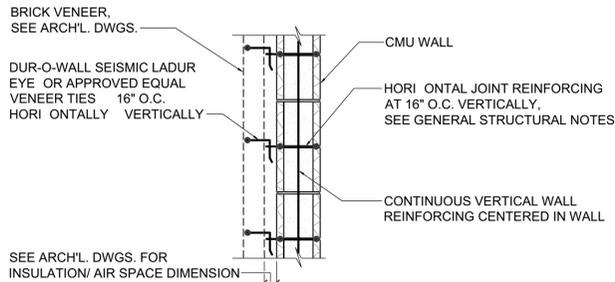
NOTES:
1. ALL EXPOSED EXTERIOR WALL LINTELS SHALL BE COATED WITH FINISH PAINT COAT.
2. LONGER ANGLE LEG IS VERTICAL, UNLESS OTHERWISE NOTED.
3. MINIMUM BEARING EACH END = 4", INSTALL ON FRESH MORTAR BED.
4. STEEL LINTELS OVER 4'-0" SUPPORTING MASONRY SHALL BE FIREPROOFED PER CODE REQUIREMENTS.
5. SEE PLAN FOR DETAIL CUTS.

RE UIRED MASONR ASSEMBL MINIMUM STRENGT S

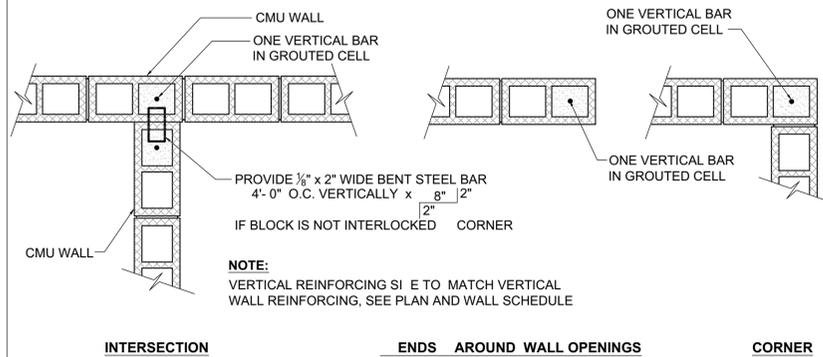
| SPECIFIED REQUIRED MINIMUM NET AREA COMPRESSIVE STRENGTH OF MASONRY ASSEMBLY f_m , PSI | MINIMUM NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS, PSI | MINIMUM COMPRESSIVE STRENGTH OF GROUT, PSI |
|--|--|--|
| 1500 | 1900 | 2000 |
| 1750 | 2350 | 2500 |
| 2000 | 2800 | 3000 |
| 2250 | 3275 | 3500 |
| 2500 | 3750 | 4000 |
| 2750 | 4275 | 4500 |
| 3000 | 4800 | 5000 |

NOTES:
1. ALL LISTED STRENGTHS ARE 28 DAY STRENGTHS.
2. ALL CONCRETE MASONRY UNITS CMU SHALL CONFORM TO ASTM C90.
3. ALL GROUT SHALL CONFORM TO ASTM C476, FINE GROUT.
4. MORTAR SHALL BE TYPE S MORTAR, WITH MINIMUM LABORATORY CUBE STRENGTH OF 1800 PSI.
5. FOR MINIMUM REQUIRED STRENGTH OF ASSEMBLY f_m , SEE GENERAL STRUCTURAL NOTES.

RE UIRED MASONR ASSEMBL MINIMUM STRENGT S



VENEER AT CMU WALL



CMU WALL DETAILS

ISSUED FOR DOB REVIEW
10/19/15

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New York, NY 10001

KEY PLAN



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10/19/15 DOB SUBMISSION
No. Date Submission

SCHEDULES AND TYPICAL DETAILS



Job No.: 15006.00
Scale: As indicated
Drawn By: SAB
Checked By: JR

Sheet No.: **S-401.00**
of

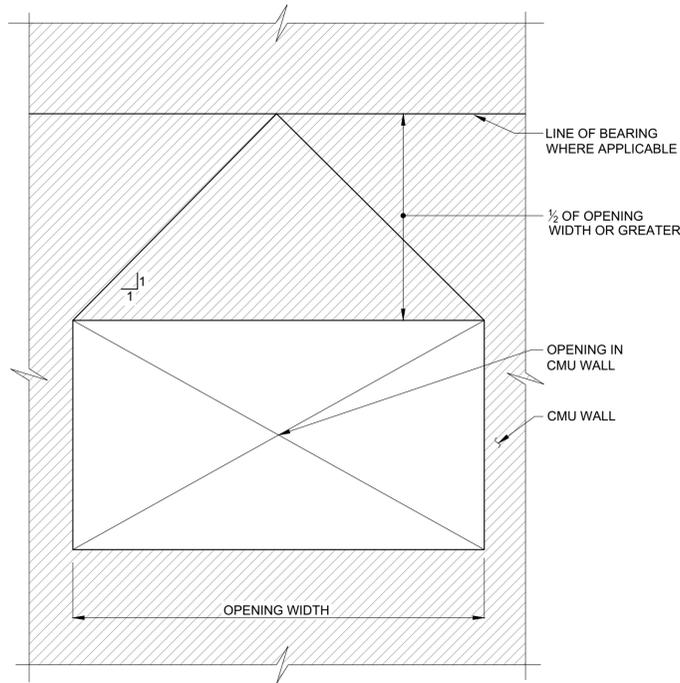
| BAR SIZE | f'c = 3,000 psi | | f'c = 4,000 psi | | f'c = 5,000 psi | | ALL f'c | |
|----------|-----------------|--------------------|-----------------|--------------------|-----------------|--------------------|---------|-----------------|
| | TENSION SPLICE | COMPRESSION SPLICE | TENSION SPLICE | COMPRESSION SPLICE | TENSION SPLICE | COMPRESSION SPLICE | OPEN | ENCLOSED IN TIE |
| 3 | 22 | 33 | 19 | 28 | 17 | 25 | 12 | 12 |
| 4 | 29 | 43 | 25 | 38 | 23 | 34 | 15 | 13 |
| 5 | 36 | 54 | 31 | 47 | 28 | 42 | 19 | 16 |
| 6 | 43 | 65 | 38 | 56 | 34 | 53 | 20 | 19 |
| 7 | 63 | 94 | 54 | 81 | 49 | 73 | 27 | 22 |
| 8 | 72 | 107 | 62 | 93 | 56 | 83 | 30 | 25 |
| 9 | 81 | 121 | 70 | 105 | 62 | 94 | 34 | 28 |
| 10 | 90 | 134 | 78 | 116 | 69 | 104 | 38 | 32 |
| 11 | 98 | 147 | 85 | 128 | 76 | 114 | 42 | 35 |

NOTES:

- UNLESS NOTED OTHERWISE ON PLANS OR DETAILS, LAP SPLICES IN CONCRETE BEAMS, SLABS, WALLS, STEM WALLS, AND FOOTINGS SHALL BE TENSION LAP SPLICES, AND LAP SPLICES IN CONCRETE COLUMNS SHALL BE COMPRESSION LAP SPLICES.
- USE SPLICE CATEGORY I WHEN EITHER A, OR B APPLIES, FOR ALL OTHER CASES, USE CATEGORY II.
 - THE CLEAR SPACING OF BAR BEING SPLICED IS NOT LESS THAN THE BAR'S DIAMETER (db), THE CLEAR COVER IS NOT LESS THAN (db), AND THE BAR IS LOCATED IN A COLUMN OR A BEAM.
 - CLEAR SPACING OF BARS BEING SPLICED IS NOT LESS THAN 2(db) AND THE CLEAR COVER IS NOT LESS THAN (db).
- TENSION LAP SPLICES SHOWN IN THE TABLE ARE FOR SPLICES IN NORMAL WEIGHT CONCRETE, IF SPLICE OCCURS IN LIGHTWEIGHT CONCRETE, MULTIPLY VALUES GIVEN IN TABLE BY 1.3.
- TENSION LAP SPLICE SHOWN IN THE TABLE ARE FOR SPLICES OF BOTTOM BARS, IF SPLICED BAR IS A TOP BAR, MULTIPLY VALUES GIVEN IN TABLE BY 1.3. TOP BAR IS DEFINED AS A HORIZONTAL BAR SO PLACED THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE SPLICE.
- TENSION LAP SPLICES SHOWN IN THE TABLE ARE FOR Fy=60,000 psi. IF SPLICE BAR HAS A Fy=40,000 psi., MULTIPLY VALUES GIVEN IN TABLE BY 0.67.
- TENSION AND COMPRESSION LAP SPLICES SHOWN IN TABLE ARE FOR NON-EPOXY COATED REINFORCING. FOR EPOXY COATED BARS WITH COVER LESS THAN (3db), MULTIPLY VALUES GIVEN IN TABLES BY 1.5. FOR ALL OTHER EPOXY COATED BARS, MULTIPLY VALUES GIVEN IN TABLE BY 1.2.
- ADJUSTMENT FACTORS OF NOTES 3 THROUGH 6 ARE CUMULATIVE, EXCEPT THE PRODUCT OF 4 AND 6 NEED NOT BE TAKEN GREATER THAN 1.7.
- LAP SPLICES SHOWN ARE IN INCHES.
- THIS TABLE BASED ON ACI 318-95 SECTIONS 12.2.2, 12.2.4, 12.15, 12.16, AND 12.17 IN LIEU OF USING THIS TABLE ACI 318-95 SECTIONS 12.2, 12.16, AND 12.17 MAY BE FOLLOWED.

MINIMUM REINFORCING BAR SPLICE LENGTH IN CONCRETE

10



| OPENING WIDTH | LINTEL SIZES | | |
|---------------------|----------------------------------|----------------------------------|-----------------------------------|
| | 6" CMU | 8" CMU | 12" CMU |
| 0' THROUGH 3'-4" | (2) 3" x 2 1/2" x 3/16" (LLV) | (2) 3 1/2" x 2 1/2" x 1/4" (LLV) | (3) 3 1/2" x 3 1/2" x 1/4" (LLV) |
| 3'-5" THROUGH 4'-8" | (2) 3" x 2 1/2" x 1/4" (LLV) | (2) 3 1/2" x 3" x 1/4" (LLV) | (3) 3 1/2" x 3 1/2" x 5/16" (LLV) |
| 4'-9" THROUGH 6'-0" | (2) 3 1/2" x 2 1/2" x 1/4" (LLV) | (2) 3 1/2" x 3 1/2" x 1/4" (LLV) | (3) 4" x 3 1/2" x 1/4" (LLV) |

NOTE:

UNLESS NOTED OR SHOWN OTHERWISE, PROVIDE LINTEL ANGLES SHOWN ABOVE IN NON-BEARING WALLS. PROVIDE 4" MINIMUM BEARING OF ANGLES ON JAMBS. PROVIDE SOLID GROUT BETWEEN WEBS AND MASONRY FACE SHELLS FOR FULL LENGTH OF ALL STEEL LINTELS. THIS SCHEDULE APPLIES TO BEARING WALLS WHERE RELATIONSHIP BETWEEN LINE OF BEARING AND TOP OF LINTEL IS AS SHOWN.

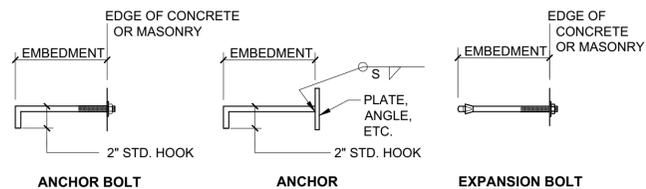
DOUBLE AND TRIPLE ANGLE LINTELS AT CMU WALLS

11

| BOLT DIAMETER | MINIMUM EMBEDMENT | FILLET WELD SIZE (S) |
|---------------|-------------------|----------------------|
| 1/2" | 4" | 1/4" |
| 3/8" | 4 1/2" | 1/4" |
| 3/4" | 5" | 5/16" |
| 7/8" | 6" | 3/8" |
| 1" | 7" | 7/16" |
| 1 1/4" | 8" | 1/2" |
| 1 1/2" | 9" | 9/16" |

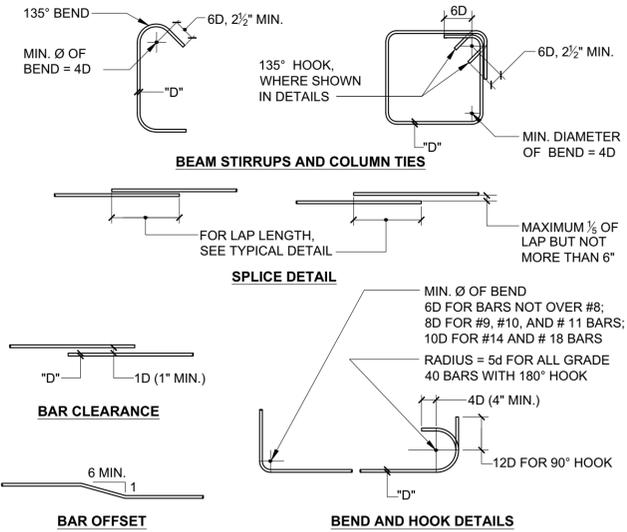
NOTES:

- AN ADDITIONAL 2" EMBEDMENT IS REQUIRED FOR ANCHOR BOLTS LOCATED IN THE TOP OF CONCRETE COLUMNS.
- ANCHOR BOLTS AND ANCHORS USED IN MASONRY SHALL BE INSTALLED IN GROUTED CELLS. IF GROUTED CELLS ARE NOT ENCOUNTERED, BREAK INTO CELL AND GROUT SOLID FOR 8" MINIMUM ABOVE AND BELOW LOCATION.
- ANCHOR BOLTS AND EXPANSION BOLTS SHALL BE INSTALLED WITH STEEL WASHERS.



ANCHOR BOLT, ANCHOR, AND EXPANSION BOLT SCHEDULE

15



CONCRETE REINFORCING BAR DETAILS

12

CONDITION:

- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH..... 3"
- FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:
 - #6 THROUGH #18..... 2"
 - #5, W31 OR D31 WIRE, AND SMALLER 1 1/2"
- FORMED CONCRETE NOT EXPOSED TO WEATHER ON IN CONTACT WITH THE GROUND:

SLABS, WALLS, JOISTS:

- #14 AND #18 1 1/2"
- #11 AND SMALLER..... 3/4"

BEAMS, COLUMNS:

- PRIMARY REINFORCEMENT, TIES, STIRRUPS, OR SPIRALS 1 1/2"

MIN. COVER:

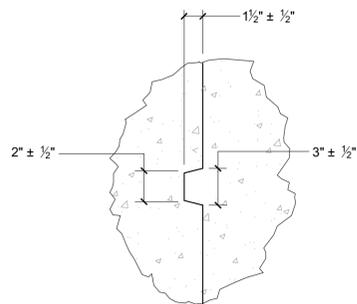
TYPICAL CLEAR CONCRETE COVERAGES

13

| 1" DIAMETER BOLTS | |
|----------------------------------|-------------------------|
| NOMINAL BEAM DEPTH "D" IN INCHES | NUMBER OF ROWS OF BOLTS |
| UP TO 7 | 1 (2 COLUMNS) |
| 8-11 | 2 |
| 12-14 | 3 |
| 15-17 | 4 |
| 18-20 | 5 |
| 21-26 | 6 |
| 27-29 | 7 |
| 30-32 | 8 |
| 33-35 | 9 |
| 36 | 10 |

BOLT SCHEDULE FOR TYPICAL STEEL CONNECTIONS

16



KEY IN CONCRETE

14

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TYPICAL DETAILS

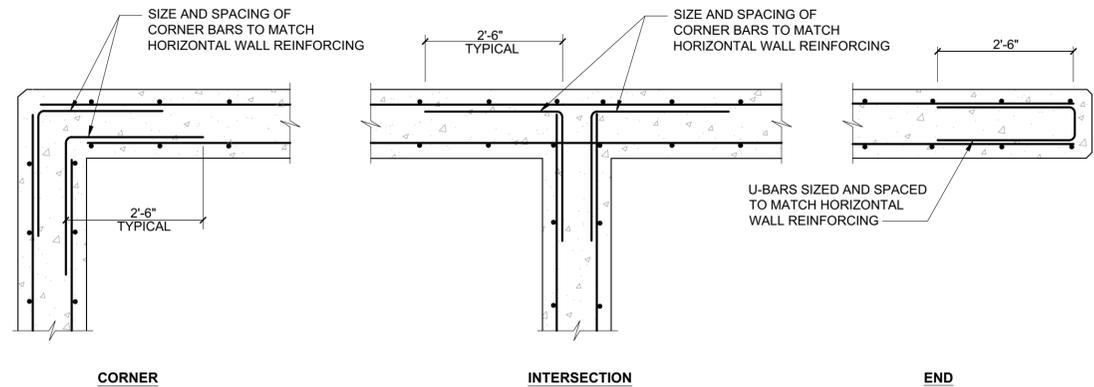


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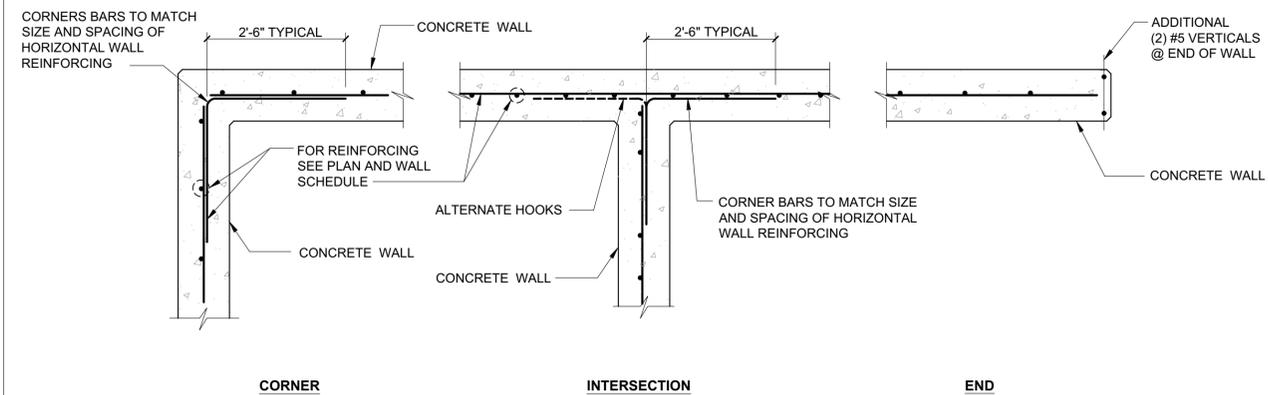
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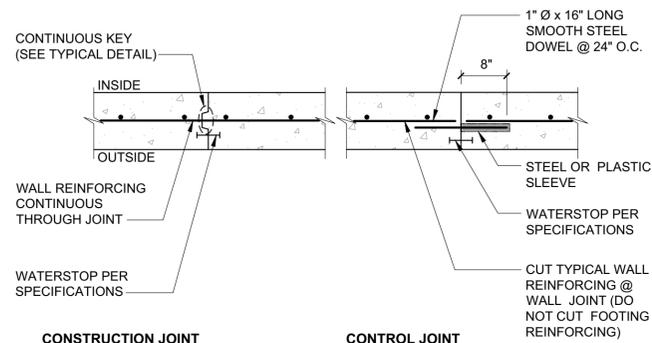
CORNER REINFORCING IN WALLS

17



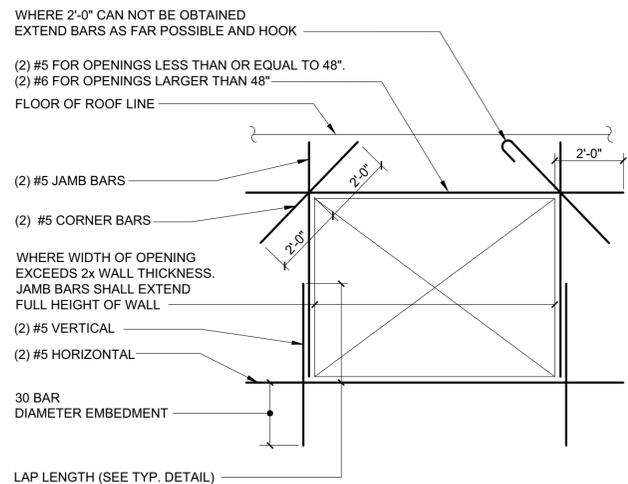
TYPICAL CONCRETE WALL DETAILS

18



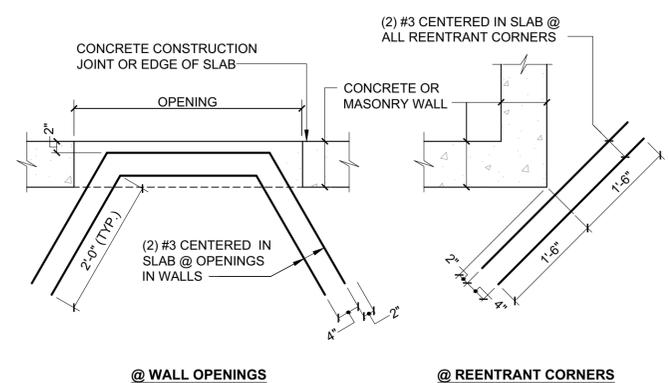
CONCRETE WALL JOINTS

19



TYPICAL OPENING IN CONCRETE WALL

20



REINFORCING FOR SLAB ON GRADE

21

- NOTES:**
1. LOCATION OF CONSTRUCTION JOINTS NOT SHOWN ON PLANS TO BE APPROVED BY STRUCTURAL ENGINEER.
 2. LOCATE CONTROL JOINTS 100'-0" O.C. MAXIMUM IN BASEMENT WALLS, AND @ 30'-0" O.C. IN OTHER WALLS. LOCATION OF CONTROL JOINTS TO BE APPROVED BY STRUCTURAL ENGINEER.

UNDERPINNING REQUIREMENTS FOR FOUNDATIONS FOR EXISTING BUILDINGS AND WALLS.

1. CONTRACTOR SHALL PROVIDE ANY UNDERPINNING WHICH MAY BE REQUIRED FOR EXISTING ADJACENT BUILDINGS. CONTRACTOR SHALL ENGAGE THE SERVICES OF A PROFESSIONAL ENGINEER TO PREPARE THE PLANS AND PROVIDE CONTROLLED INSPECTION FOR THE UNDERPINNING WORK. SERVICES OF THIS ENGINEER IS TO BE PAID BY THE CONTRACTOR.
2. CONTRACTOR TO PROVIDE INSPECTION PITS AT ALL EXISTING BUILDINGS AND WALLS NOTED ON PLAN TO DETERMINE EXTENT OF UNDERPINNING.
3. UNDERPINNING PROCEDURE:
 - A. THE UNDERPINNING SHALL BE DONE IN SECTIONS. THE MAXIMUM WIDTH FOR ANY PARTICULAR UNDERPINNING SECTION SHALL BE 4'-0" (REFER TO SCHEMATIC BELOW). SUCCESSIVE OR SIMULTANEOUS CUTS SHALL HAVE AT LEAST 12'-0" CLEAR DISTANCE BETWEEN THEM.
 - B. THE UNDERPINNING SHALL BE SCHEDULED AS FOLLOWS:
 - C. CONTRACTOR SHALL EXCAVATE FOR EACH "A" SECTION AND SHORE 3 SIDES OF EXCAVATION AS REQUIRED. AS MENTIONED, THESE EXCAVATIONS SHALL BE LIMITED TO A MAXIMUM OF 4'-0" WIDTH ALONG THE LENGTH OF THE WALL AND THE WIDTH OF THE EXCAVATION SHOULD MATCH THE WIDTH OF THE EXISTING FOOTING. THESE EXCAVATIONS SHALL UNDERMINE THE EXISTING FOOTING AT SECTIONS "A" ONLY. THESE EXCAVATIONS SHALL EXTEND TO DESIRED DEPTH.
 - D. AFTER FORMING, PLACE 3000 PSI CONCRETE.
 - E. AFTER CONCRETE UNDERPINNING FOR SECTIONS "A" HAS CURED FOR A MINIMUM OF 48 HOURS, WORK MAY PROCEED ON SECTIONS "B" (REFER TO SCHEMATIC PLAN BELOW). SIMILARLY, WORK MAY PROCEED ON SECTIONS "C" AFTER CONCRETE FROM SECTIONS "B" HAS CURED A MIN. OF 48 HOURS. INSTALL STEEL WEDGES AND INSTALL CONTINUOUS DRYPACKING BETWEEN UNDERPINNING AND EXISTING FOUNDATIONS OR AS DIRECTED BY PROFESSIONAL ENGINEER RESPONSIBLE FOR THE UNDERPINNING.
 - F. UNDERPINNING WORK FOR SECTIONS "B" AND "C" SHALL FOLLOW THE SAME PROCEDURE LISTED FOR SECTIONS "A" IN STEPS A & B ABOVE.
 - G. VARIATIONS OF THIS PROPOSED SCHEDULE SHALL BE SUBMITTED, DISCUSSED AND ACCEPTED BY THE ENGINEER OF RECORD.



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TYPICAL DETAILS



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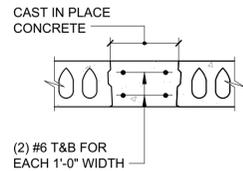
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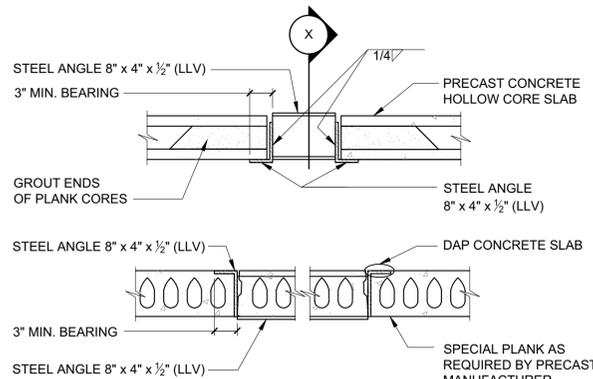
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TYPICAL DETAIL BETWEEN PLANKS WHERE REQUIRED TO PROVIDE FOR OVERALL WIDTH OF BUILDING



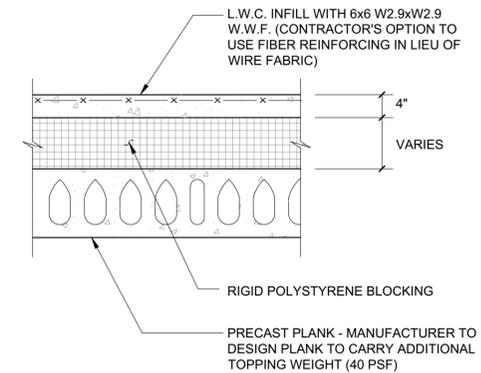
PIPE SLEEVE OPENINGS IN PLANK (SEE MECH'L DWGS. FOR PIPE SLEEVE LOCATIONS)



NOTE: REFER TO PLANS FOR SPECIFIC HEADER REQUIREMENTS AT OPENINGS WHICH TAKE PRECEDENCE OVER ANGLE SHOWN. LOCATION AND LENGTH TO BE COORDINATED WITH ARCHITECTURAL, AND MECHANICAL DRAWINGS.

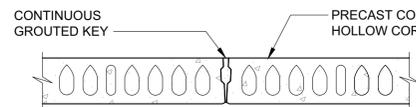
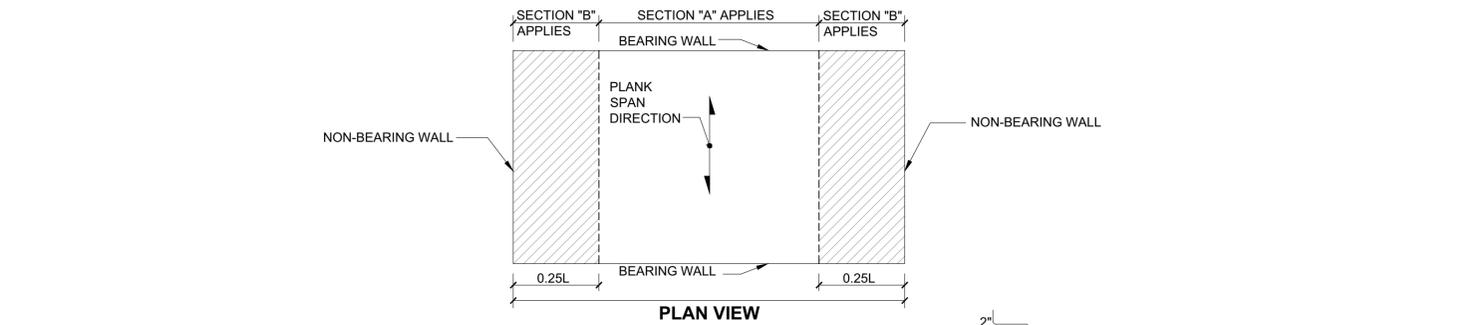
PRECAST CONCRETE PLANK DETAILS

25



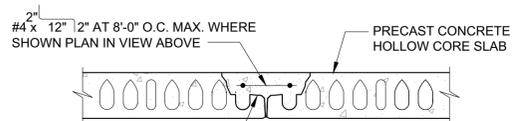
INFILL ON PRECAST PLANK

26



SECTION-CONNECTION TYPE 'A'

A

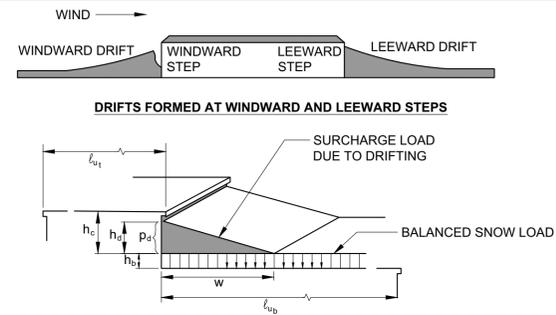


SECTION-CONNECTION TYPE 'B'

B

PRECAST PLANK TO PLANK CONNECTION

27

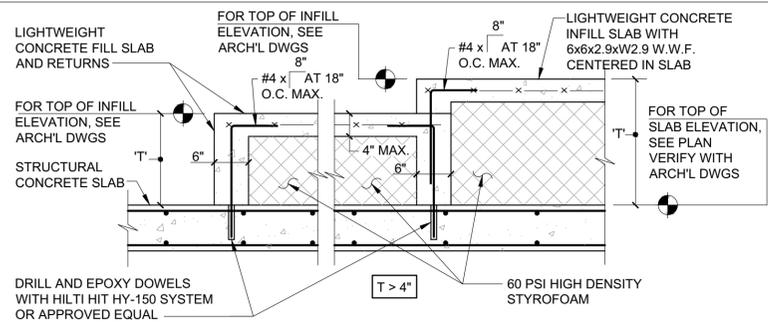
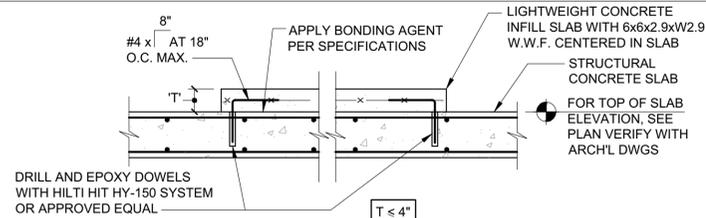


SNOW DENSITY = $\delta = .13 \times P_g + 14, 30\text{pcf MAX.}$
 $h_b = \frac{P_g}{\delta}$
 • FOR LEEWARD DRIFTS, $h_d = .43 \times \sqrt[3]{L_{e1}} \times \sqrt[4]{P_g + 10} - 1.5$
 • FOR WINDWARD DRIFTS AND PARAPET WALL DRIFTS, $h_d = .32 \times \sqrt[3]{L_{e1}} \times \sqrt[4]{P_g + 10} - 1.125$
 • $W = 4 \times h_d$, IF $h_d \leq h_c$
 • $W = 4 \times (h_d / h_c)$, IF $h_d > h_c$, AND $h_d \leq h_c$

IN LIEU OF THE EQUATIONS ABOVE, FIGURE 7-9 OF ASCE 7 MAY BE USED. FOR ADDITIONAL SNOW FACTORS, SEE LOADS SECTION OF GENERAL STRUCTURAL NOTES. LOAD COMBINATIONS ARE PER THE APPLICABLE BUILDING CODE.

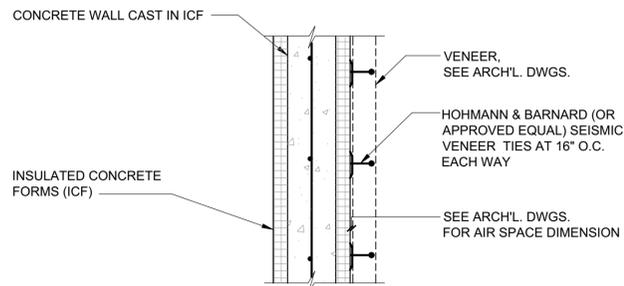
SNOW DRIFT LOADS

28



LIGHTWEIGHT CONCRETE INFILL SLAB

29



VENEER AT ICF WALL

30

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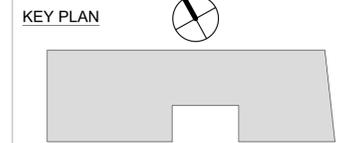
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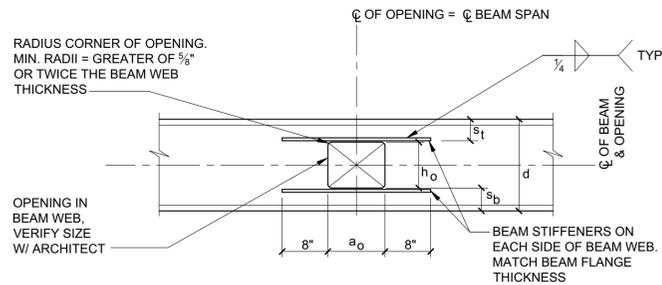
TYPICAL DETAILS



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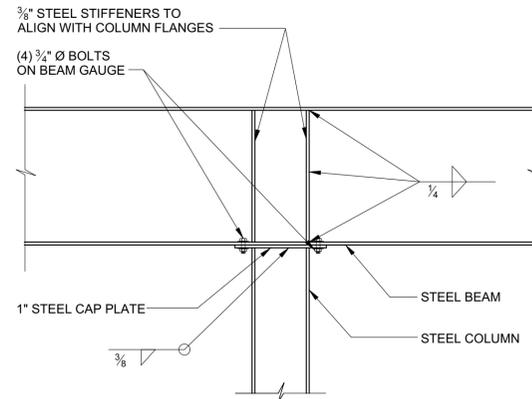


| NOM. BEAM DEPTH | h_o max. | s_b, s_t min. | a_o max. |
|-----------------|------------|-----------------|------------|
| 8" | 5.6" | 1.2" | 12" |
| 10" | 7" | 1.5" | 14.4" |
| 12" | 8.4" | 1.8" | 18" |
| 14" | 9.8" | 2.1" | 20.4" |
| 16" | 11.2" | 2.4" | 24" |
| 18" | 12.6" | 2.7" | 26.4" |
| 21" | 14.7" | 3.2" | 31.5" |

- NOTES:**
- OPENING AT MIDDLE $\frac{1}{2}$ SPAN.
 - SPACING BETWEEN OPENINGS = 1.5d.
 - DIMENSION RESTRICTION MUST BE MET BEFORE ENGINEER OF RECORD CAN BEGIN EVALUATION.
 - LIMIT ASPECT RATIO OF OPENING:
 - $\frac{a_o}{s_b} \leq 12$
 - $\frac{a_o}{s_t} \leq 12$

BEAM WEB PENETRATION LIMITS

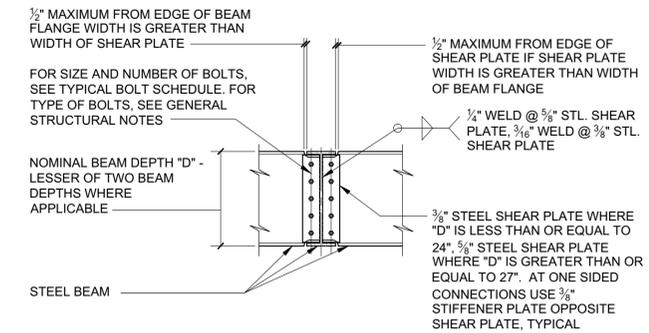
32



NOTE: BLOCK AND PLANK CONSTRUCTION ABOVE NOT SHOWN FOR CLARITY.

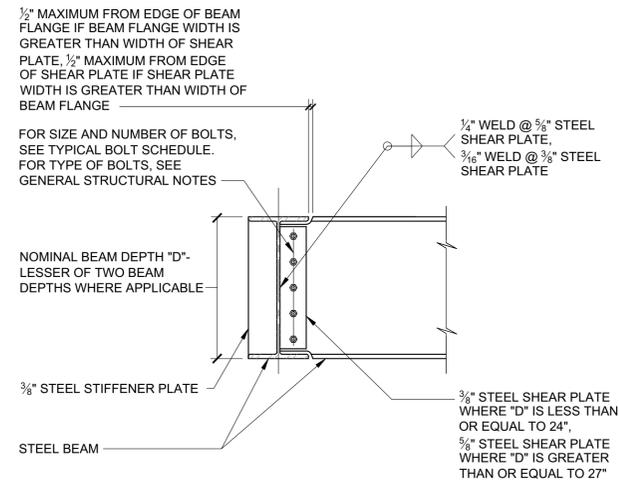
STEEL BEAM TO COLUMN CONNECTION

33



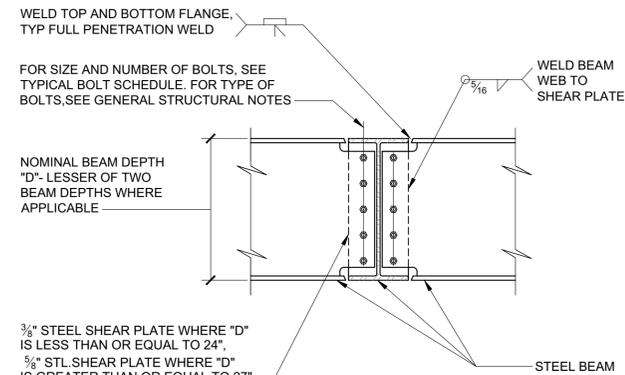
WIDE FLANGE BEAM TO BEAM CONNECTION

34



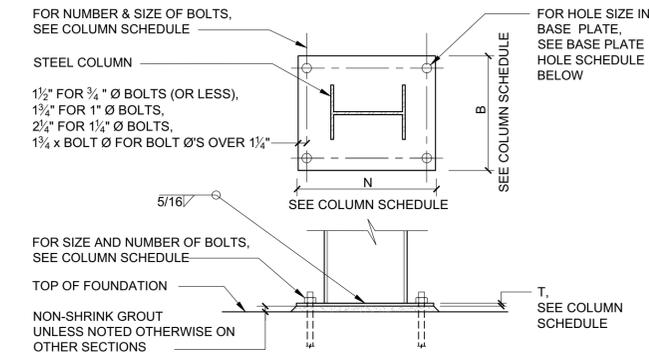
WIDE FLANGE BEAM TO BEAM CONNECTION

35



BEAM TO BEAM MOMENT CONNECTION

36



| BASE PLATE HOLE SCHEDULE | |
|---------------------------------|----------------------------|
| BOLT SIZE | HOLE SIZE |
| $\frac{3}{4}$ " TO 1" INCLUDING | DIAMETER $+\frac{3}{16}$ " |
| OVER 1" TO 2" INCLUDING | DIAMETER $+\frac{1}{2}$ " |
| OVER 2" | DIAMETER $+1$ " |

COLUMN BASE PLATE

37

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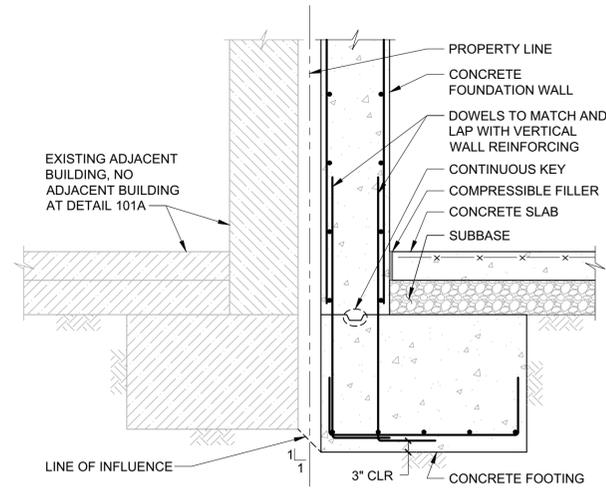


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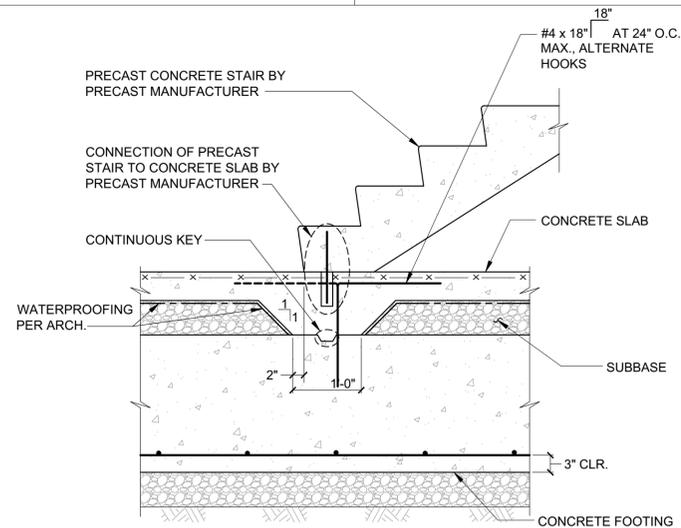
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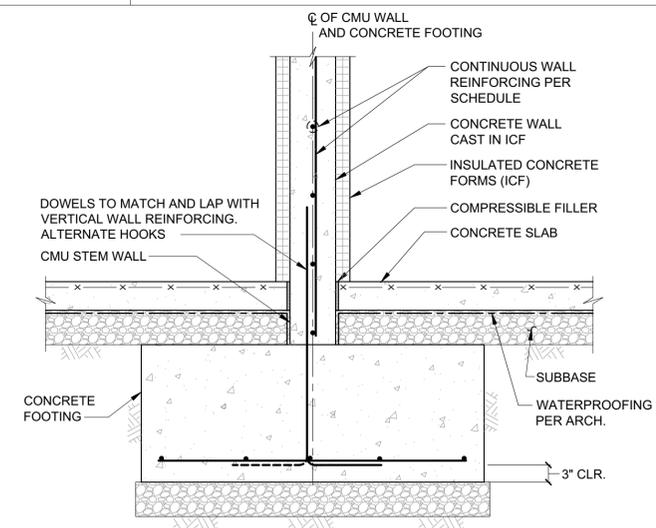
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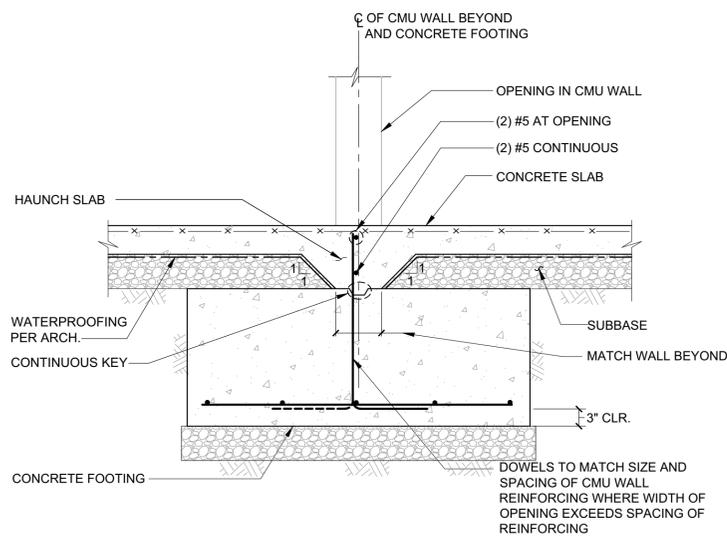
FOUNDATION FOOTING AT ADJACENT BUILDING 101/101A



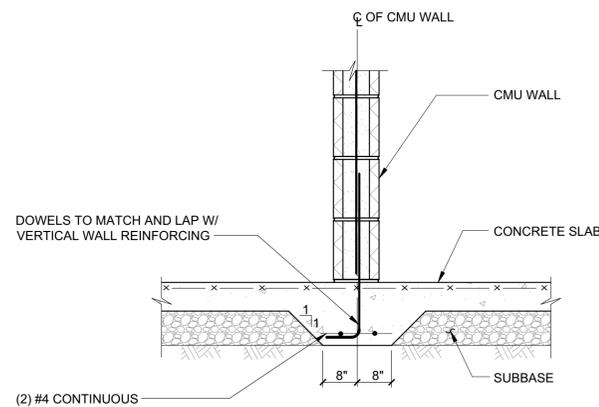
PRECAST STAIR AT FOOTING 102



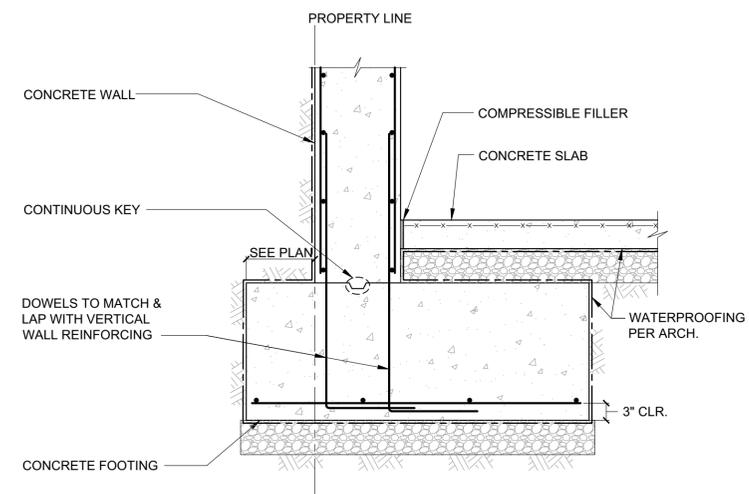
INTERIOR CONCRETE WALL FOUNDATION 103



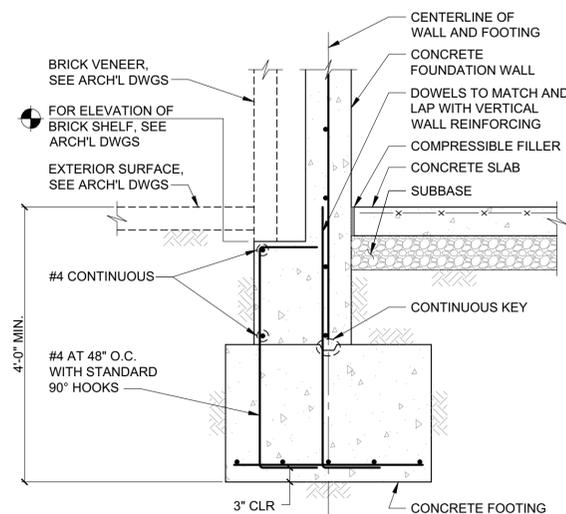
OPENING IN INTERIOR CMU WALL 104



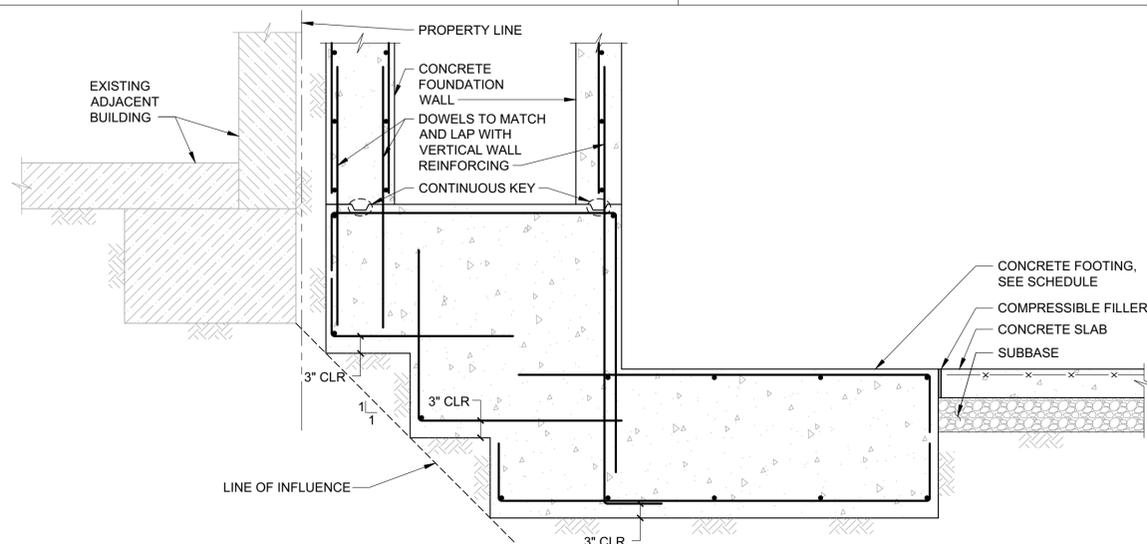
NON-BEARING CMU WALL 105



PROPERTY LINE FOOTING 106



EXTERIOR FOUNDATION WALL 107



FOUNDATION DETAIL AT ADJACENT BUILDING 108

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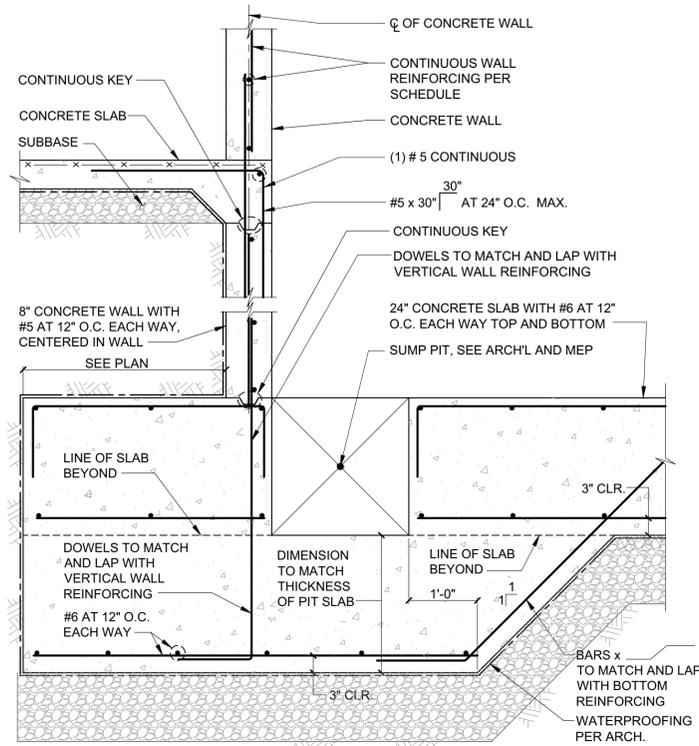
FOUNDATION DETAILS



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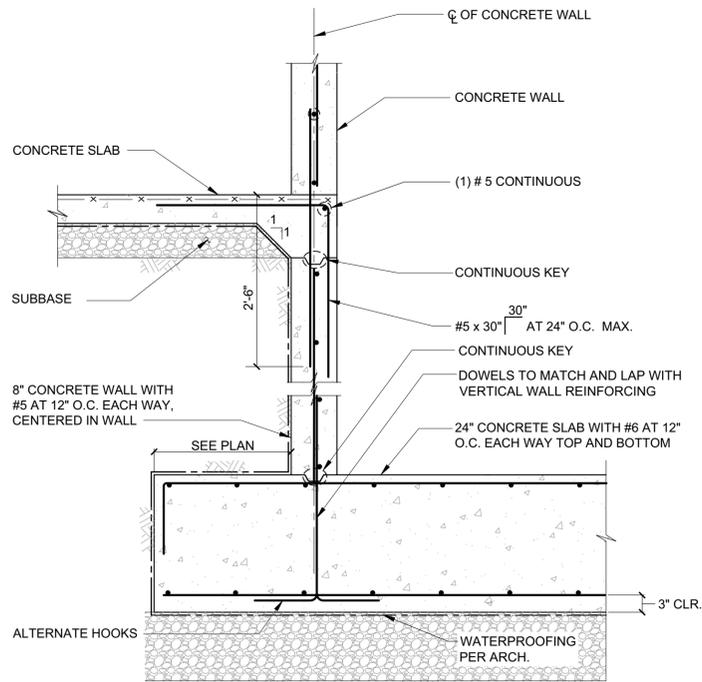
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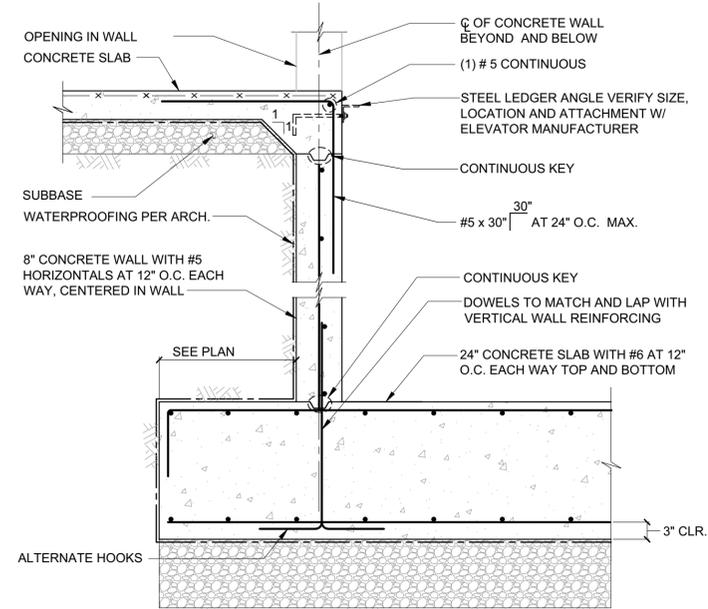
ELEVATOR SUMP PIT

110



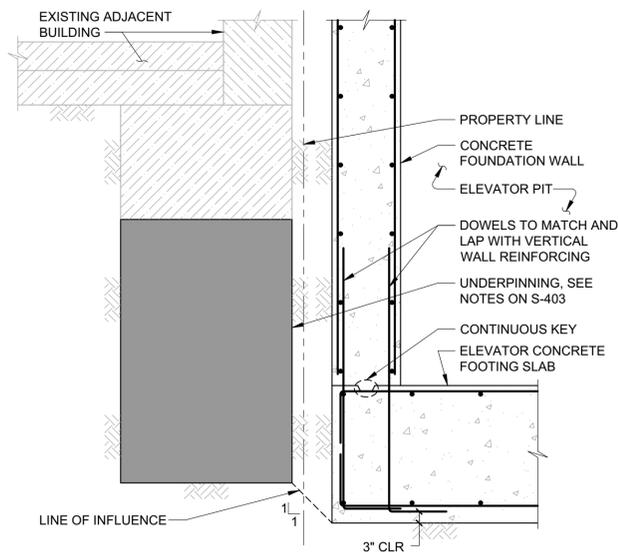
ELEVATOR PIT

111



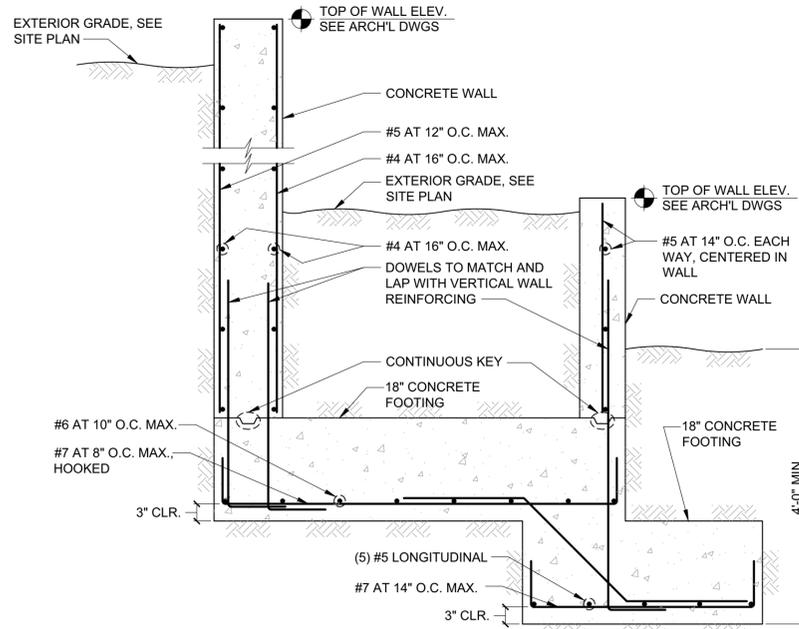
OPENING AT ELEVATOR PIT

112



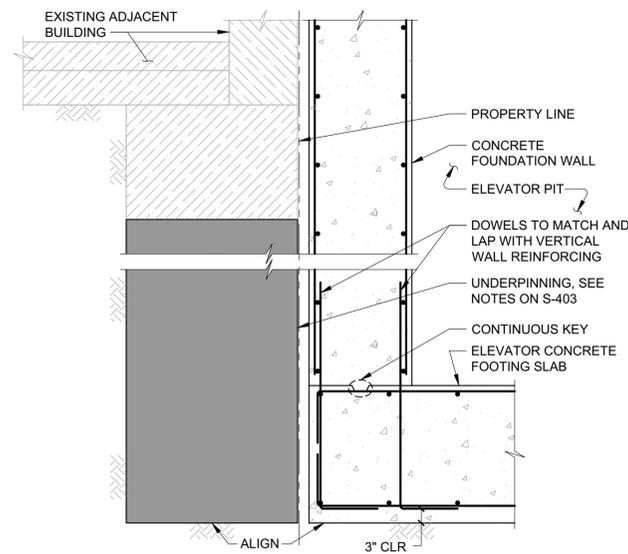
FOUNDATION DETAIL AT ADJACENT BUILDING

113



CONCRETE WALL AND STEPPED FOOTING AT PLANTER

125



FOUNDATION DETAIL AT ADJACENT BUILDING

115

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 224 West 29th Street, 4th Floor
 New York, New York 10001

BPP
 SULLIVAN GROUP DESIGN, LLC
 109 West 27th Street
 New York, NY 10001

KEY PLAN



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FOUNDATION DETAILS



Job No.: 15006.00

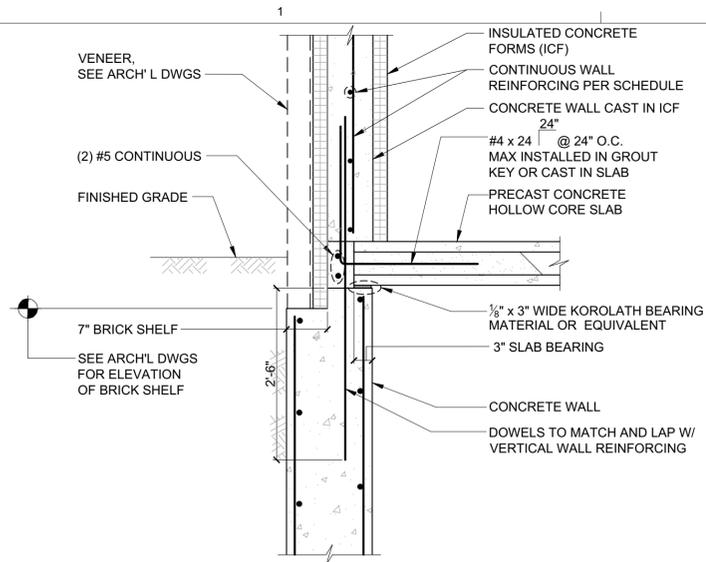
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Checked By: JR

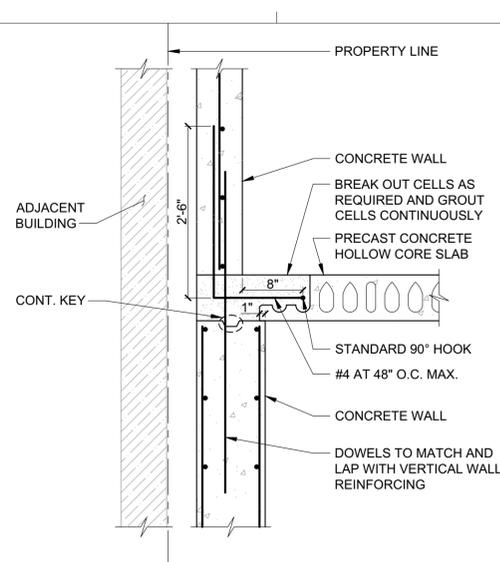
Sheet No.:

of **S-501.00**



PRECAST SLAB BEARING AT EXTERIOR FOUNDATION WALL

118



NON BEARING SLAB AT EXTERIOR WALL

119

3365 THIRD AVE

3365 Third Ave Bronx, NY 10456

Owner
BRONX PRO GROUP
 1605 Dr. Martin Luther King Jr. Blvd.
 Bronx, NY 10453

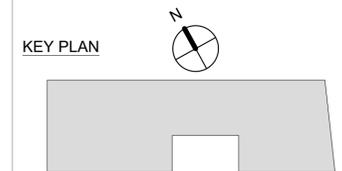
Architect
CURTIS + GINSBERG ARCHITECTS LLP
 299 Broadway, Suite 1107
 New York, New York 10007

Structural Engineer
DE NARDIS ENGINEERING, LLC
 239 Central Ave.
 White Plains, New York 10606

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KEY PLAN



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| | | |

Title:
FOUNDATION DETAILS

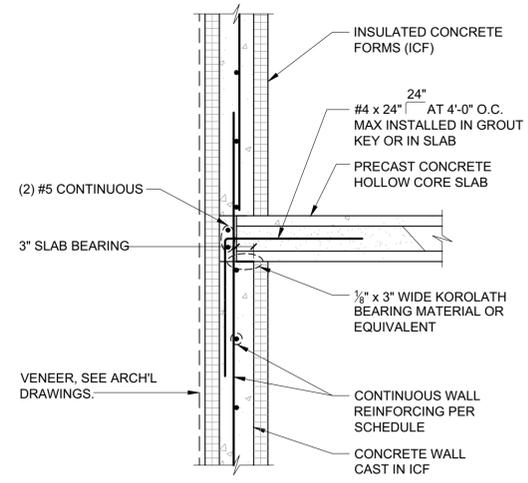


Job No.: 15006.00
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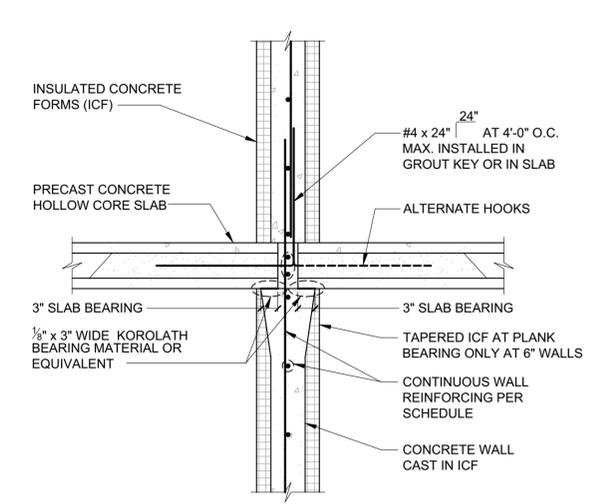
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Sheet No.:

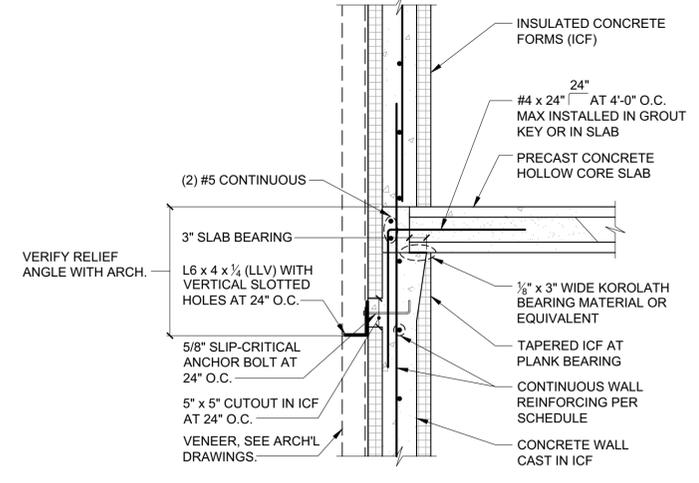
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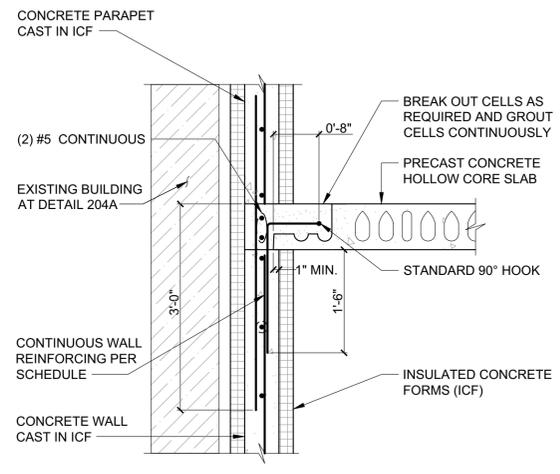
PRECAST SLAB BEARING AT CONCRETE WALL 201



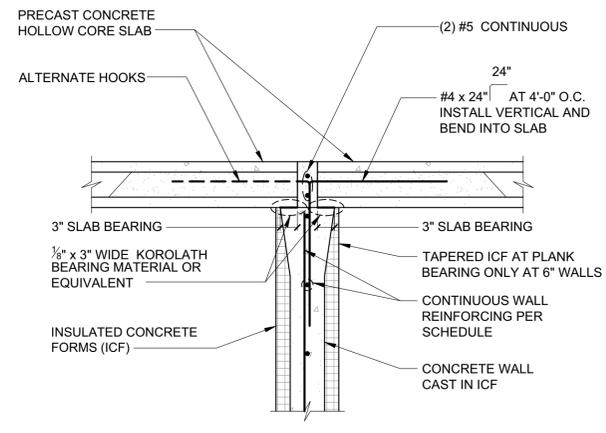
PRECAST SLAB BEARING AT INTERIOR CONCRETE WALL 202



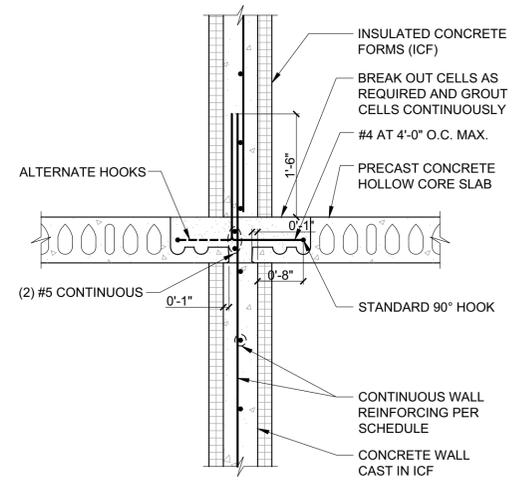
PRECAST SLAB BEARING AT CONCRETE WALL 203



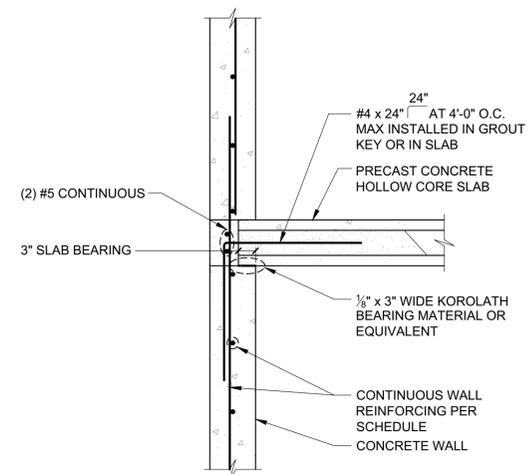
PRECAST SLAB AT CONCRETE WALL 204 204A



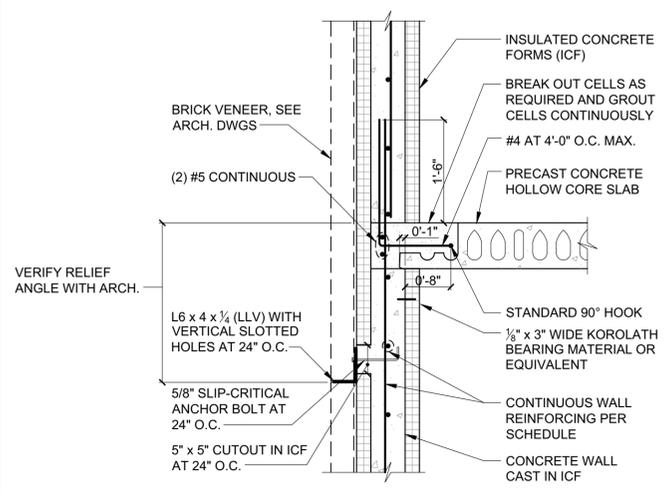
PRECAST ROOF SLAB BEARING AT CONCRETE WALL 205



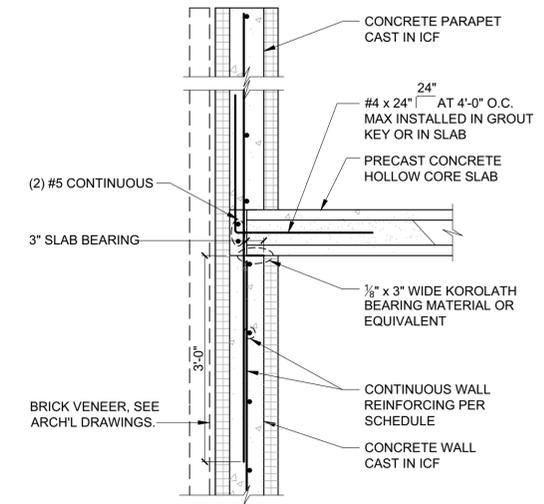
PRECAST SLAB AT CONCRETE SHEAR WALL 206



PRECAST SLAB BEARING AT CONCRETE WALL 207



PRECAST SLAB AT CONCRETE SHEAR WALL 208



PRECAST SLAB BEARING AT PARAPET 209

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3365 THIRD AVE

3365 Third Ave Bronx, NY 10456

Owner
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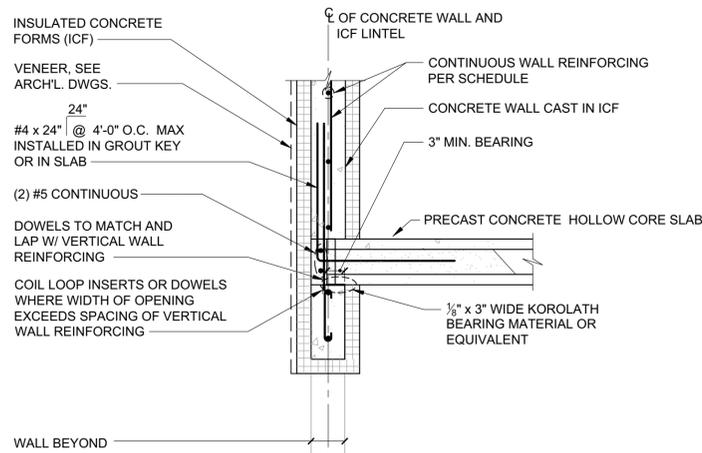
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|-----|------|------------|
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FRAMING DETAILS



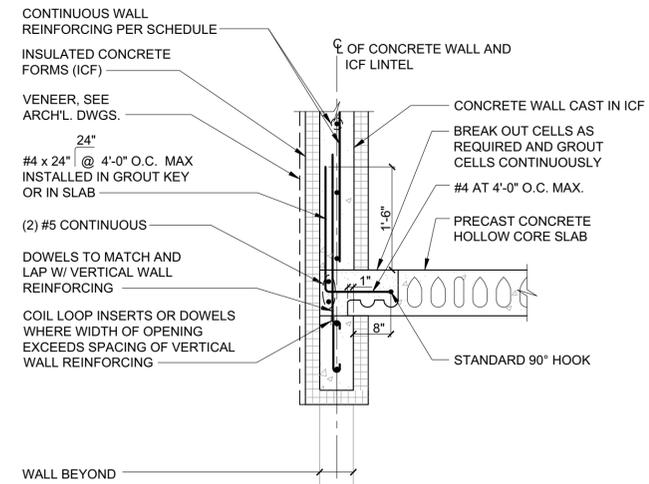
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Checked By: JR

Sheet No.: **S-600.00**
of



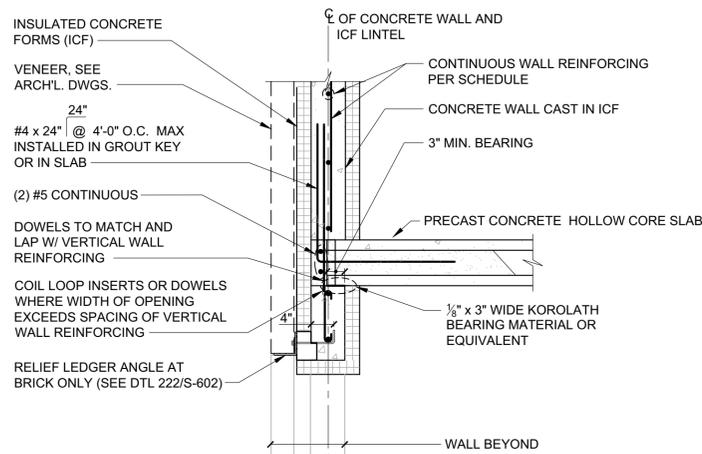
PRECAST SLAB BEARING ON IFC LINTEL

210



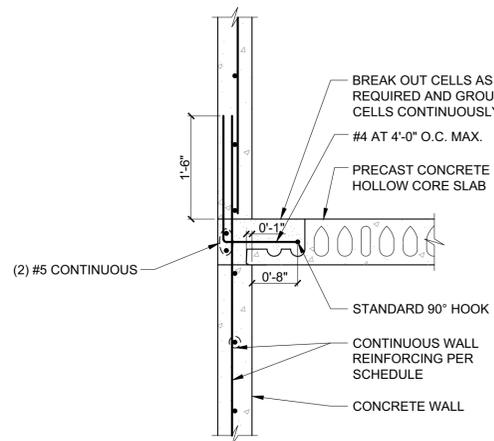
PRECAST SLAB NON-BEARING ON IFC LINTEL

212



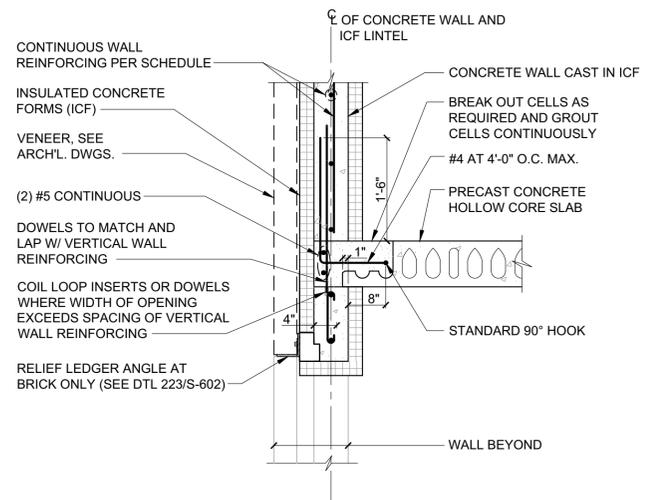
PRECAST SLAB BEARING ON IFC LINTEL

213



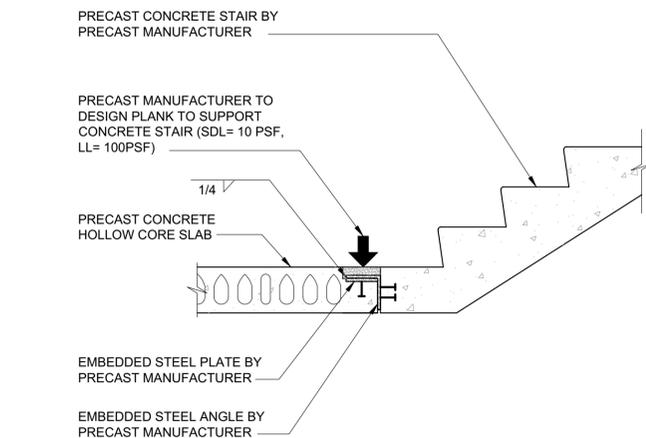
PRECAST SLAB AT CONCRETE WALL

214



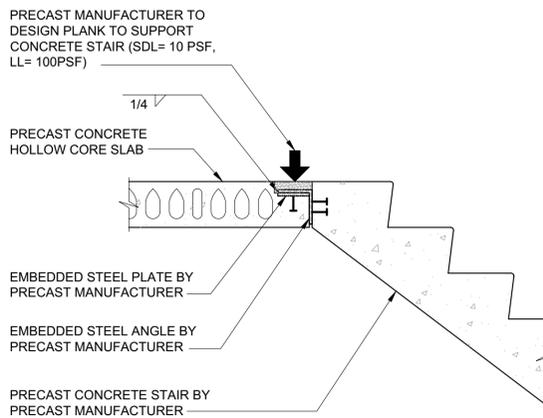
PRECAST SLAB BEARING ON IFC LINTEL

215



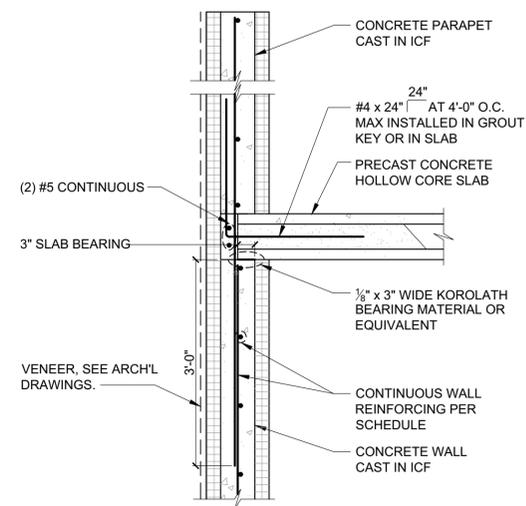
PRECAST STAIR AT PRECAST SLAB

216



PRECAST STAIR AT PRECAST SLAB

217



PRECAST SLAB BEARING AT PARAPET

218

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10/19/15

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3365 Third Ave Bronx, NY 10456

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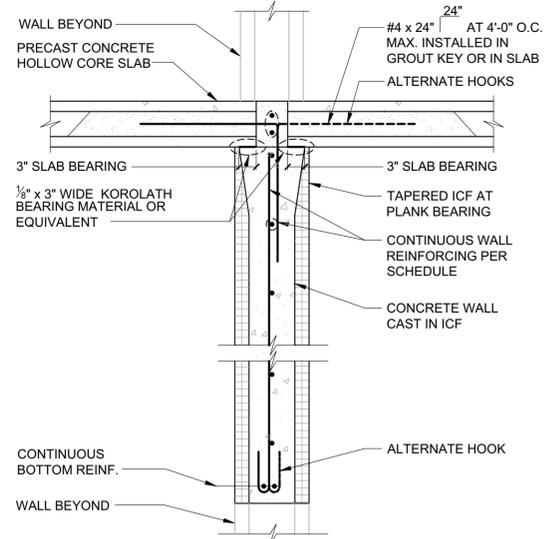
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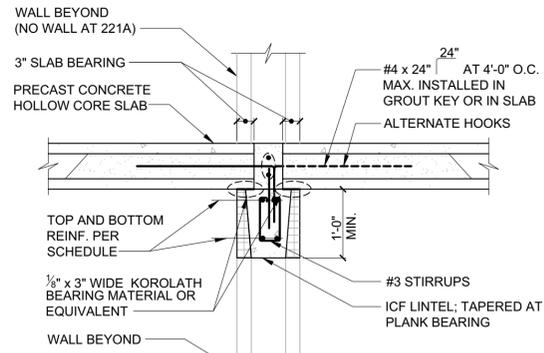
Sheet No.:

of **S-601.00**



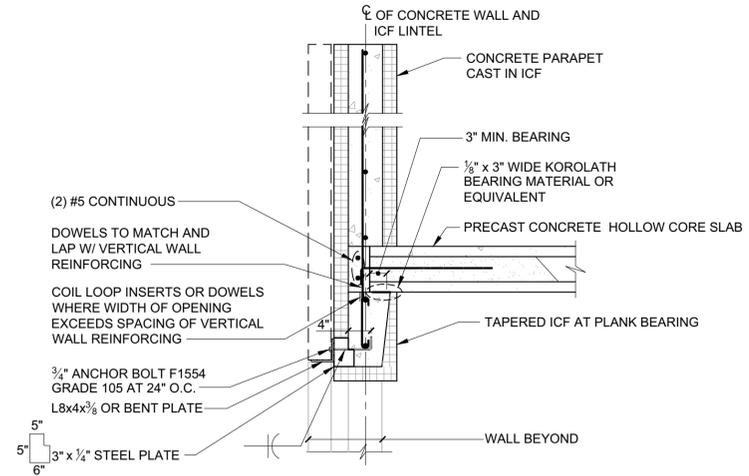
DEEP ICF LINTEL

220



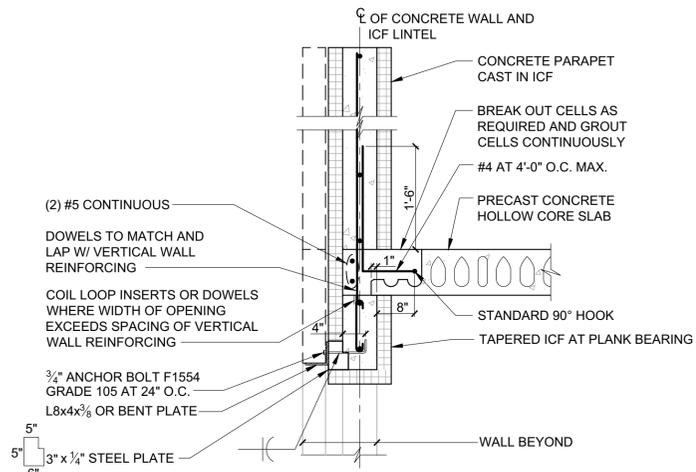
ICF LINTEL AT PRECAST SLAB

221 221A



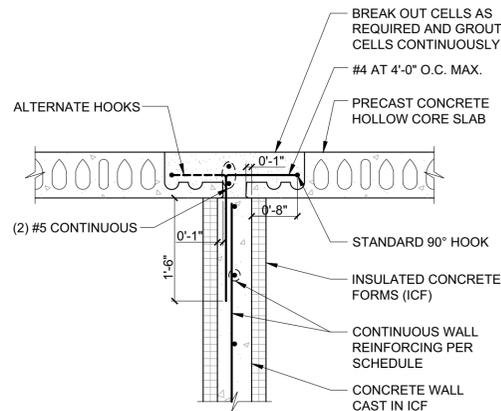
PRECAST SLAB BEARING AT ICF LINTEL

222



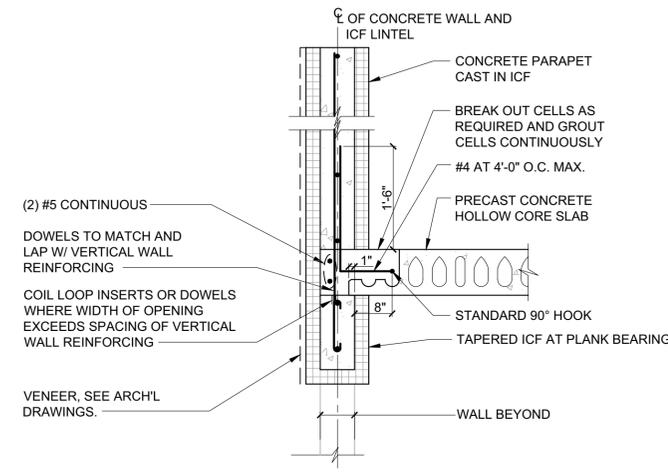
PRECAST SLAB BEARING AT ICF LINTEL

223



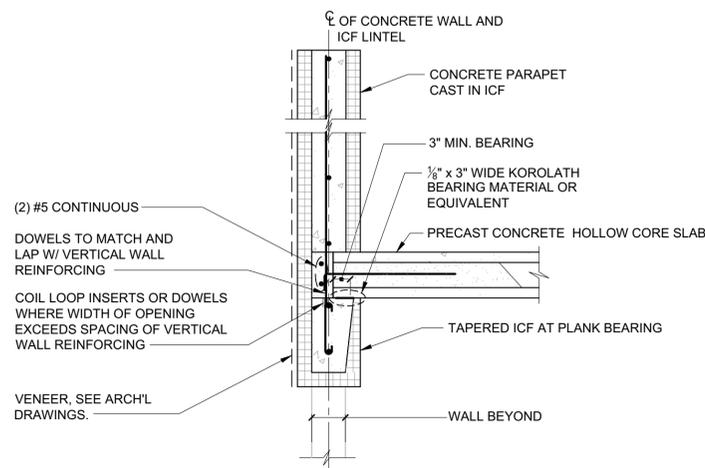
PRECAST SLAB AT CONCRETE WALL

224



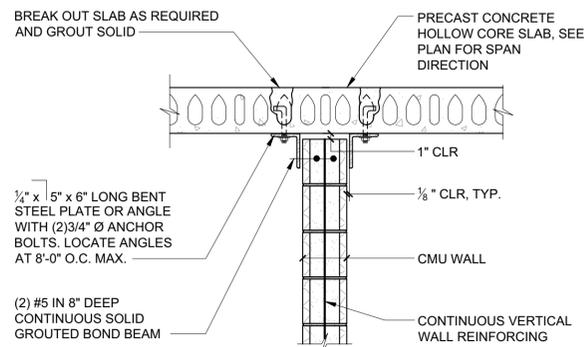
PRECAST SLAB BEARING AT ICF LINTEL

225



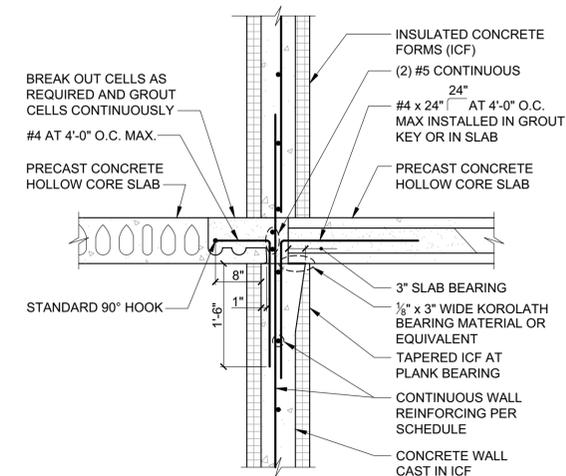
PRECAST SLAB BEARING AT ICF LINTEL

226



NON-BEARING CMU WALL SUPPORT

227



PRECAST SLAB AT CONCRETE WALL

228

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Job No.: 15006.00

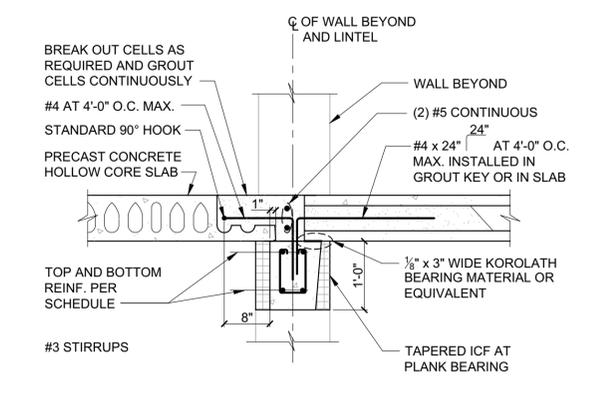
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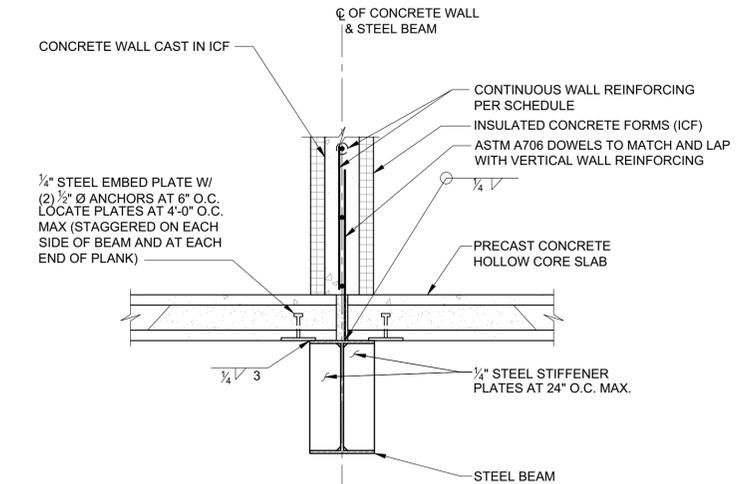
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Sheet No.:

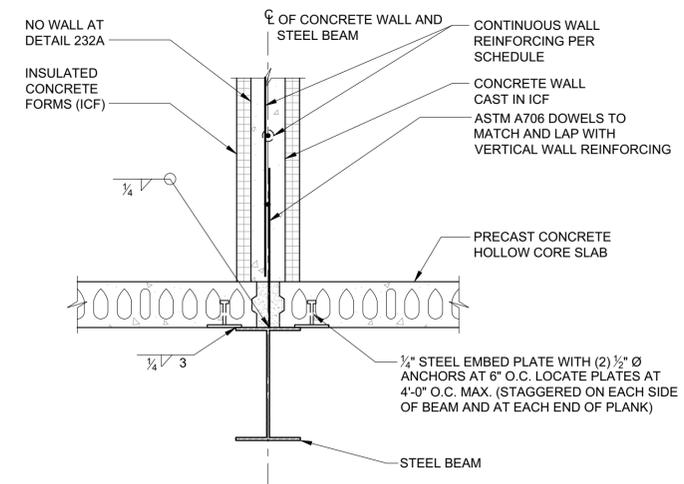
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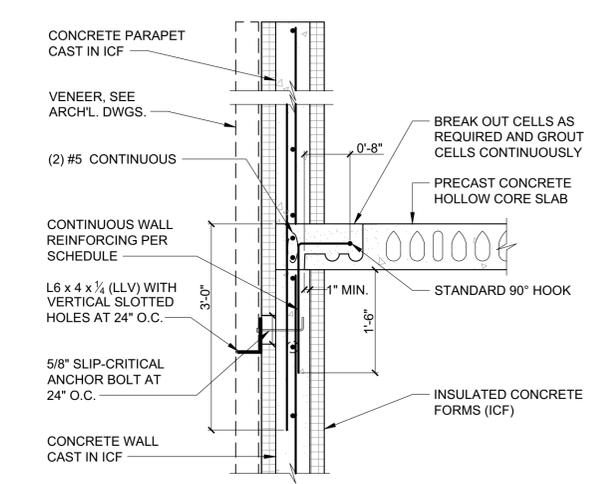
ICF LINTEL AT PRECAST SLAB 230



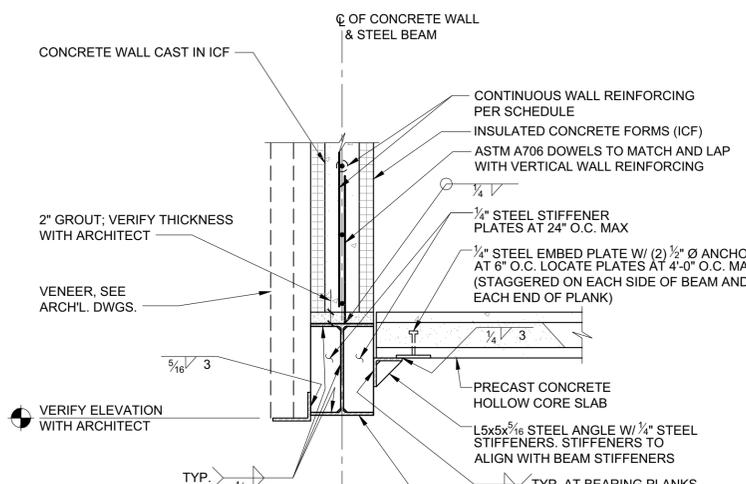
CONCRETE WALL AT STEEL BEAM 231



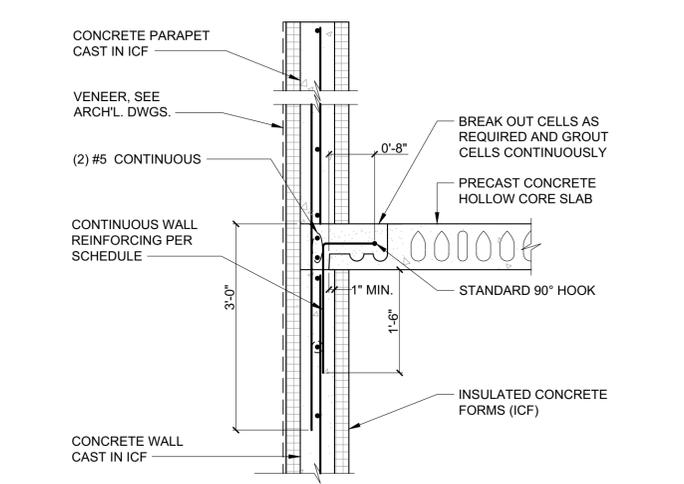
CONCRETE WALL AT STEEL BEAM 232 232A



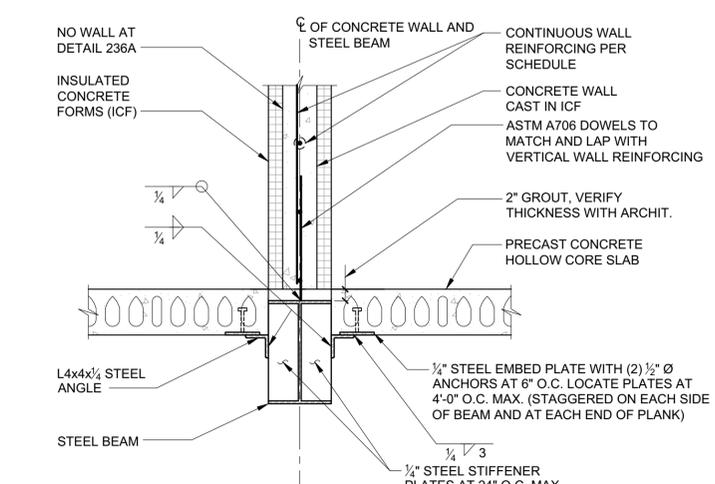
PRECAST ROOF SLAB AT CONCRETE WALL 233



CONCRETE WALL AT STEEL BEAM 234



CONCRETE WALL AT STEEL BEAM 235



CONCRETE WALL AT STEEL BEAM 236 236A

3365 THIRD AVE

3365 Third Ave Bronx, NY 10456

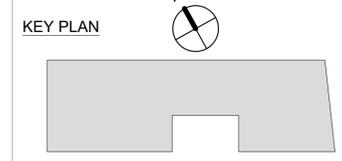
Owner
BRONX PRO GROUP
1605 Dr. Martin Luther King Jr. Blvd.
Bronx, NY 10453

Architect
CURTIS + GINSBERG ARCHITECTS LLP
299 Broadway, Suite 1107
New York, New York 10007

Structural Engineer
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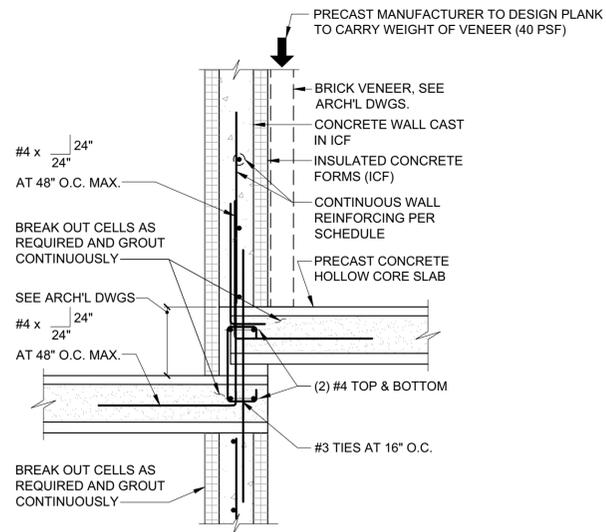
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Job No.: 15006.00
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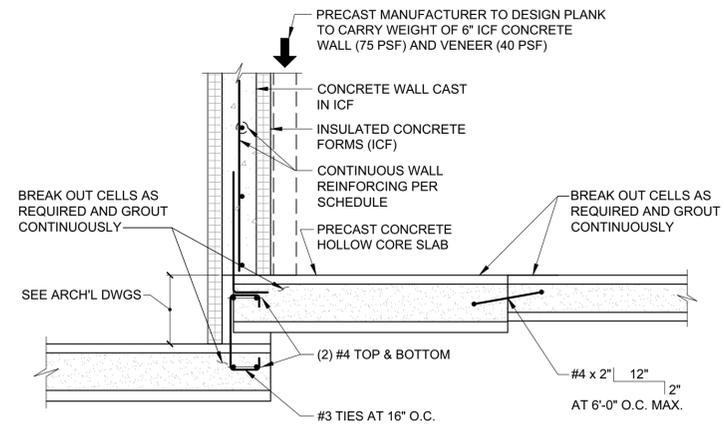
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STEP IN PLANK CONNECTION

240



STEP IN PLANK CONNECTION

241

3365 THIRD AVE

3365 Third Ave Bronx, NY 10456

Owner
BRONX PRO GROUP
 1605 Dr. Martin Luther King Jr. Blvd.
 Bronx, NY 10453

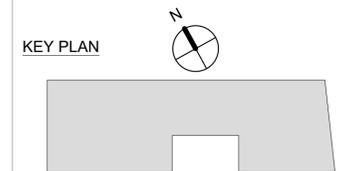
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of

S-604.00

SYMBOLS

MATERIALS

ABBREVIATIONS

1 View Name
1/8" = 1'-0"

DRAWING/DETAIL TITLE



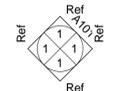
ELEVATION



BUILDING SECTION



WALL SECTION



INTERIOR ELEVATIONS



PLAN DETAIL



PARTITION TYPE



DOOR NUMBER



WINDOW TYPE



COLUMN TAG, SEE STRUC DWGS

UNIT TYPE DESIGNATION → # BEDROOMS
APARTMENT AREA →

APARTMENT TAG



DIMENSION STRINGS



ELEVATION INDICATOR



REVISION CLOUD/NUMBER



STAIR DIRECTION



CENTER LINE



PROPERTY LINE



1 HOUR RATED CONSTRUCTION



2 HOUR RATED CONSTRUCTION



3 HOUR RATED CONSTRUCTION



NORTH ARROW



ACCESSIBLE/60" TURNING RADIUS



30" x 48" CLEAR FLOOR SPACE REQ



HEARING/VISUALLY IMPAIRED UNIT



MOBILITY IMPAIRED UNIT



EARTH



GRAVEL/POROUS FILL



CONCRETE



BRICK



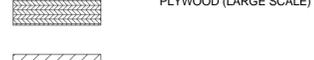
STONE



CONCRETE MASONRY UNITS



STEEL



PLYWOOD (LARGE SCALE)



PLYWOOD (SMALL SCALE)



FINISHED WOOD



BATT INSULATION



RIGID INSULATION



PLASTIC/RUBBER



GYPSUM BOARD



MARBLE/POLISHED STONE



TERRAZZO



PLASTER & LATH



GLASS



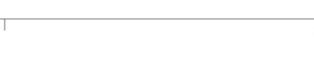
CERAMIC/QUARRY TILE



ACCOUSTIC TILE



CARPET



RESILIENT FLOORING

ABV ABOVE
A/C AIR CONDITION(ER/ING/ED)
ACOUST ACOUSTIC(AL)
ACT ACOUSTICAL TILE
AD AREA DRAIN
ADJ ADJACENT
ADJT ADJUSTABLE
AFF ABOVE FINISH FLOOR
AGG AGGREGATE
ALT ALTERNATE
ALUM ALUMINUM
ANOD ANODIZED
AP ACCESS PANEL
APPROX APPROXIMATE(LY)
ARCH ARCHITECT(URAL)
ATTEN ATTENUATION

BC BRICK COURSE
BD BOARD
BEL BELOW
BET BETWEEN
BITUM BITUMINOUS
BLDG BUILDING
BLK BLOCK
BLKG LOCKING
BM BEAM
BO BOTTOM OF
B/O BY OWNER
BOT BOTTOM
BRK BRICK
BS BOTH SIDES

CAB CABINET(RY)
CAR CARPET
CIP CAST IN PLACE
CB CATCH BASIN
CEM CEMENT
CEM PL CEMENT PLASTER
CHAM CHAMFER
CJ CONTROL JOINT
CL CLOSET
CLNG CEILING
CLR CLEAR(ANCE)
CMT CERAMIC MOSAIC TILE
CMU CONCRETE MASONRY UNIT
CNTR COUNTER
COL COLUMN
CONC CONCRETE
COND CONDUIT
CONST CONSTRUCTION
CONT CONTINUOUS
CONTR CONTRACT(OR)
CONV CONVERTOR
CP CENTER POINT
CS CAST STONE
CT CERAMIC TILE

DBL DOUBLE
DEM DEMOLISH
DF DRINKING FOUNTAIN
DIAG DIAGONAL
DIAM DIAMETER
DIM DIMENSION
DISP DISPENSER
DIV DIVISION
DL DEAD LOAD
DN DOWN
DR DOOR
DRN DRAIN
DTL DETAIL
DW DISHWASHER
DWG DRAWING
DWR DRAWER

E EAST
EA EACH
EJ EXPANSION JOINT
EL ELEVATION
ELEC ELECTRICAL
ELEV ELEVATOR
EMERG EMERGENCY
ENCL ENCLOSURE
ENG ENGINEER
ENT ENTRY
EQ EQUAL
EQUIP EQUIPMENT
EST ESTIMATE(D)
EXCAV EXCAVATE(D)
EXH EXHAUST
EXIST EXISTING
EXP EXPOSED
EXPAN EXPANSION
EXT EXTERIOR

F FEMALE
FA FIRE ALARM
FD FLOOR DRAIN
FE FIRE EXTINGUISHER
FEC FIRE EXTINGUISHER CABINET
FF FINISH FLOOR
FIN FINISH
FIX FIXTURE
FL FLOOR(ING)
FLUOR FLUORESCENT
FND FOUNDATION
FO FACE OF
FOC FACE OF CONCRETE
FOF FACE OF FINISH
FOM FACE OF MASONRY
FOS FACE OF STUDS
FP FIRE PROOF/PROTECTED
FPSC FIRE PROTECTED SELF-CLOSING
FR FIRE RATED
FRMG FRAMING
FTG FOOTING
FUR FURRED
FURN FURNITURE
FUT FUTURE

GA GAUGE
GALV GALVANIZED
GC GENERAL CONTRACT(OR)
GEN GENERAL
GL GLASS/GLAZING
GYP BD GYPSUM BOARD

HCF HARDENED CONCRETE FINISH
HD HEAVY DUTY
HDR HEADER
HDW HARDWARE
HDWD HARD WOOD
HM HOLLOW METAL
HOR HORIZONTAL
HT HEIGHT
HTG HEATING
HVAC HEATING, VENTILATION, AIR CONDITIONING, COOLING

INCL INCANDESCENT
INCL INCLUDE(ING)
INSUL INSULATION
INT INTERIOR
INV INVERT
IPS IRON PIPE SIZE

JC JANITOR'S CLOSET
JT JOINT

L LENGTH
LAM LAMINATE(D)
LAV LAVATORY
LEV LEVEL
LH LEFT-HAND
LL LIVE LOAD
LP LOW POINT
LTL LINTEL
LTWT LIGHTWEIGHT

M MALE
MAT MATERIAL
MAX MAXIMUM
MBL MARBLE
MC MEDICINE CABINET
ME MECHANICAL EQUIPMENT
MECH MECHANICAL
MEMB MEMBRANE
MFR MANUFACTURE(R)
MIN MINIMUM
MIR MIRROR
MISC MISCELLANEOUS
MO MASONRY OPENING
MP METAL PANELS
MTD MOUNTED
MTL METAL

N NORTH
N/A NOT APPLICABLE
NIC NOT IN CONTRACT
NO NUMBER
NOM NOMINAL
NR NO RATING/NOT REQUIRED
NTS NOT TO SCALE

OC ON CENTER
OD OUTSIDE DIAMETER
OFF OFFICE
OH OVER-HEAD
OPNG OPENING
OPP OPPOSITE

P PLASTIC
PENT PENTHOUSE
PL PLATE
P.L. PROPERTY LINE
PLAS PLASTER
PLF POUNDS PER LINEAR FOOT
PLUMB PLUMBING
PLYWD PLYWOOD
PNT PANEL
PNT PAINT(ED)
PREFAB PREFABRICATED
PSF POUNDS PER SQUARE FOOT
PSI POUNDS PER SQUARE INCH
PT POINT
PTN PARTITION
PVC POLYVINYL CHLORIDE
PVMT PAVEMENT

QT QUARRY TILE

R RIGHT
RAD RADIUS
RD ROOF DRAIN
REC RECESSED
RECEPT RECEPTACLE
REFL REFLECT(ED)
REFRIG REFRIGERAT(OR/ION)
REINF REINF REINFORC(ING/EMENT)

REM REMOVE
REQ REQUIRE(D)
REV REVISION
RH RIGHT HAND
RM ROOM
RO ROUGH OPENING
RVT RESILIENT VINYL TILE

S SOUTH
SC SOLID CORE
SCH SCHEDULE
SD SMOKE DETECTOR
SEC SECTION
SF SQUARE FEET
SH SHELF(VES)
SHT SHEET
SHTH SHEATHING
SHW SHOWER
SIM SIMILAR
SLD SOLDIER
SPEC SPECIFICATION
SPH SPRINKLER HEAD
SPRINK SPRINKLER
SQ SQUARE
S/S STAINLESS STEEL
STC SOUND TRANSMISSION CLASS
STD STANDARD
STL STEEL
STOR STORAGE
STRUC STRUCTURAL
SUPP SUPPORT
SURF SURFACE
SUSP SUSPENDED
SVC SERVICE
SYN SYNTHETIC
SYS SYSTEM

T TREAD
T&B TOP AND BOTTOM
TEL TELEPHONE
T&G TONGUE AND GROOVE
THK THICK(NESS)
TO TOP OF
TOIL TOILET
TOL TOLERANCE
TOP TOP OF PLANK
TOS TOP OF SLAB
TO STL TOP OF STEEL
TOW TOP OF WALL
TYP TYPICAL

UNF UNFINISHED
UON UNLESS OTHERWISE NOTED

V VINYL
VARN VARNISH
VB VAPOR BARRIER
VIF VERIFY IN FIELD
VERT VERTICAL
VEST VESTIBULE
VNR VENEER
VT VINYL TILE

W WEST
W/ WITH
WC WATER CLOSET
WD WOOD
WF WIDE FLANGE
WI WIDE(TH)
WIN WINDOW
W/O WITHOUT
WP WATERPROOF(ING)
WR WATER RESISTANT/ REPELLENT
WT WEIGHT
WTW WALL TO WALL
WWF WELDED WIRE FABRIC
WWM WOVEN WIRE MESH

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SYMBOLS AND ABBREVIATIONS

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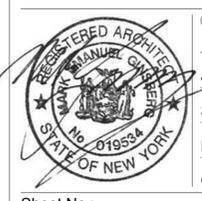


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CELLAR PLAN & FIRST FLOOR PLAN



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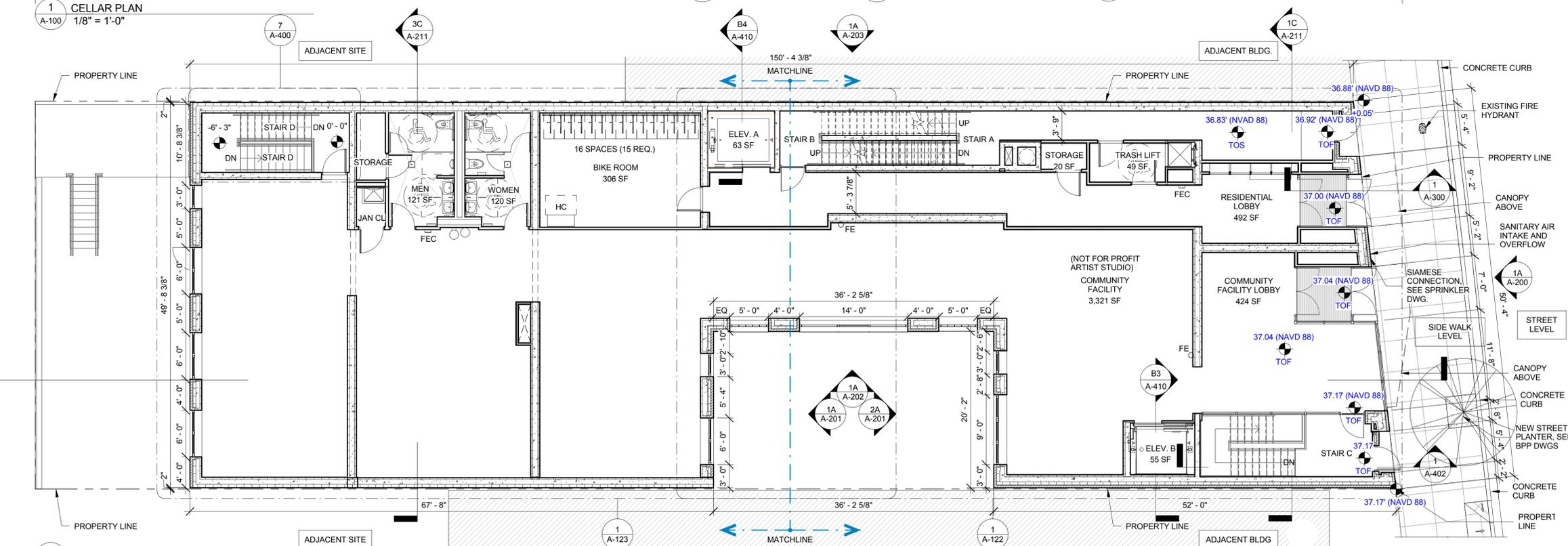
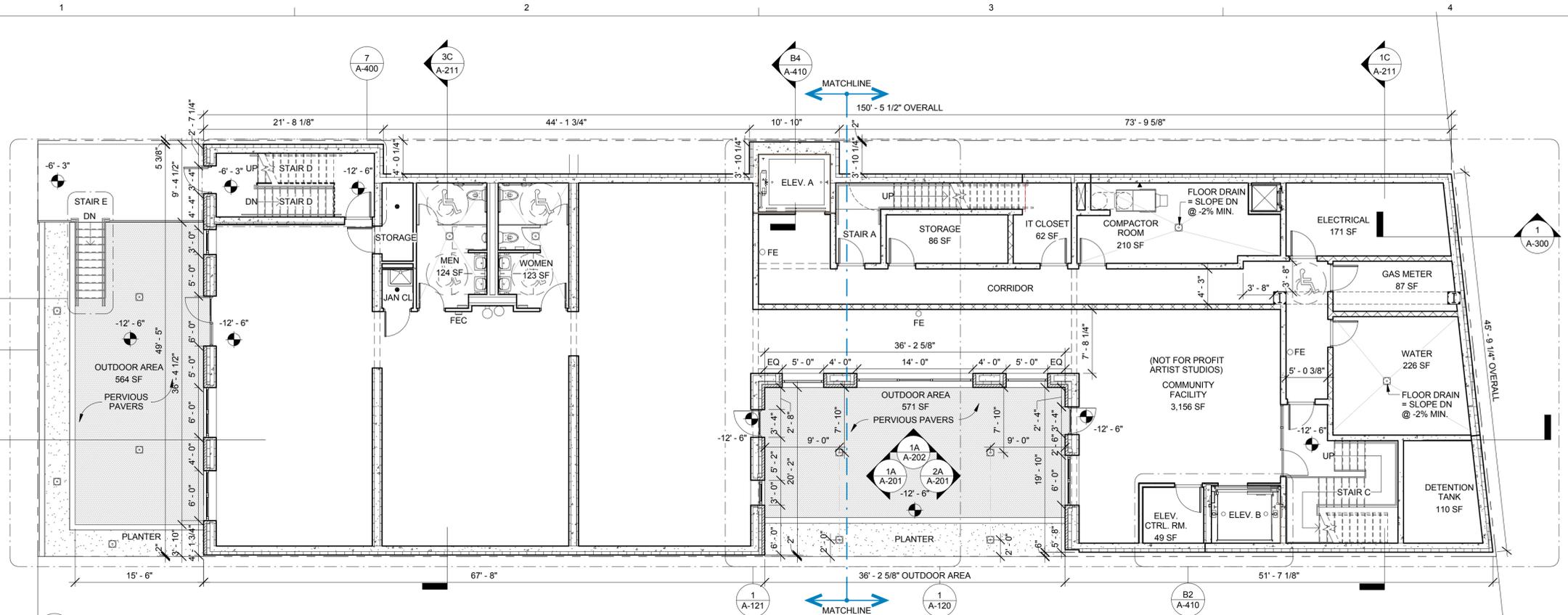
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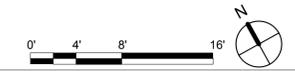
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- GENERAL NOTES**
- SEE 3/32" SCALE PLANS FOR OVERALL BUILDING
 - TYPICAL INTERIOR PARTITION - TYPE B (3 3/4") U.O.N.
 - ALL CLOSET DOORS TO BE CENTERED ON CLOSET U.O.N.
 - ALL CLOSETS ARE 2'-0" DEEP U.O.N.
 - SEE A-410 SERIES FOR ELEVATOR PLANS AND SECTIONS
 - SEE A-500 SERIES FOR KITCHEN PLANS AND ELEVATIONS
 - SEE A-510 SERIES FOR BATHROOM PLANS AND ELEVATIONS
 - SEE A-520 FOR LOBBY DETAILS AND ELEVATIONS



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ADJACENT BUILDING

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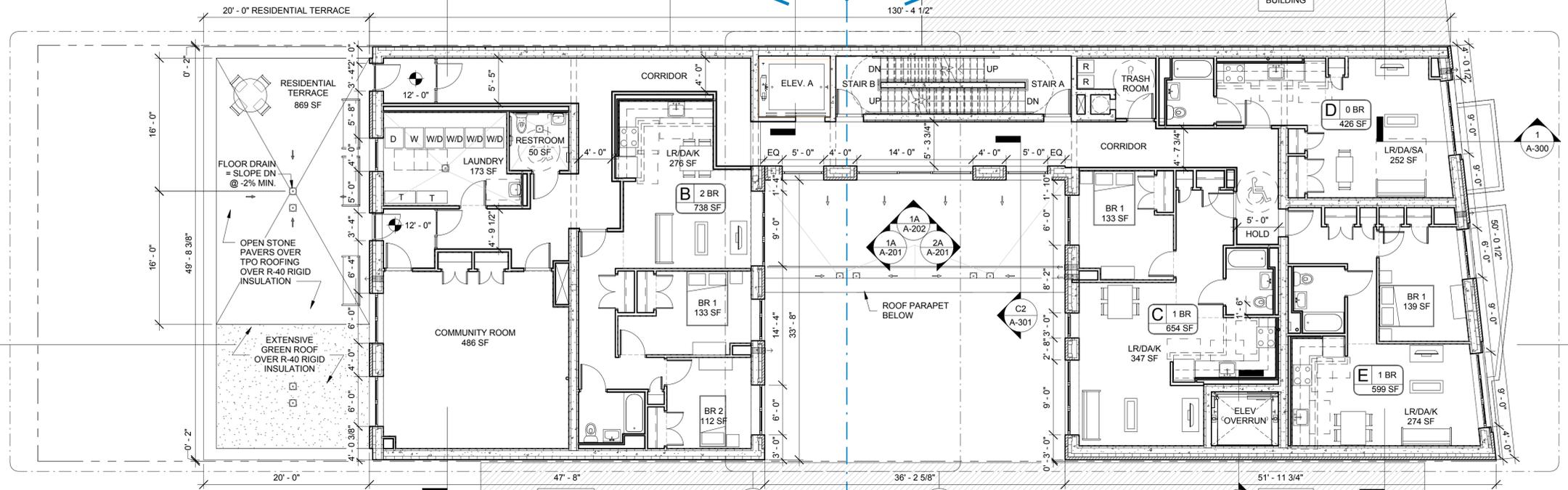
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SECOND FLOOR & TYPICAL FLOOR (3-6)

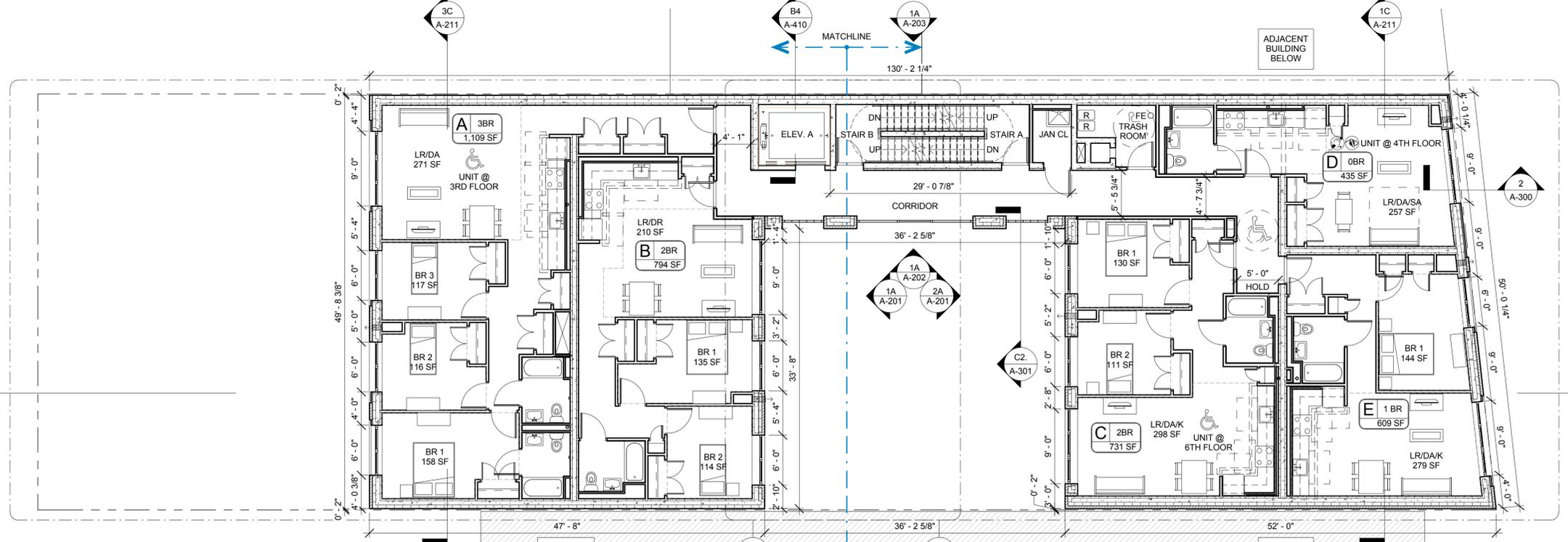


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1 SECOND FLOOR PLAN
 A-101
 1/8" = 1'-0"



2 TYPICAL FLOOR PLAN (FLOOR 3, 4, 5, 6)
 A-101
 1/8" = 1'-0"

- GENERAL NOTES**
- SEE 3/32" SCALE PLANS FOR OVERALL BUILDING
 - TYPICAL INTERIOR PARTITION - TYPE B (3 3/4") U.O.N.
 - ALL CLOSET DOORS TO BE CENTERED ON CLOSET U.O.N.
 - ALL CLOSETS ARE 2'-0" DEEP U.O.N.
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 - SEE A-500 SERIES FOR KITCHEN PLANS AND ELEVATIONS
 - SEE A-510 SERIES FOR BATHROOM PLANS AND ELEVATIONS
 - SEE A-520 FOR LOBBY DETAILS AND ELEVATIONS



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SEVENTH & EIGHTH FLOOR PLAN



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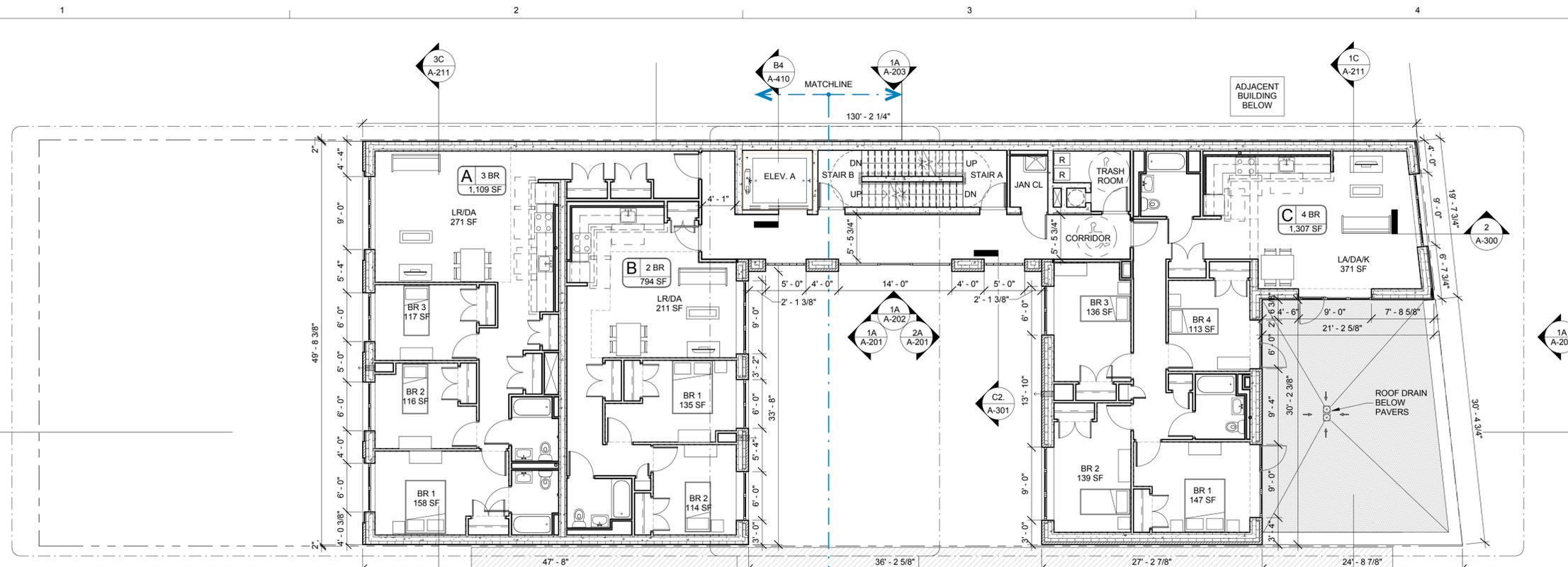
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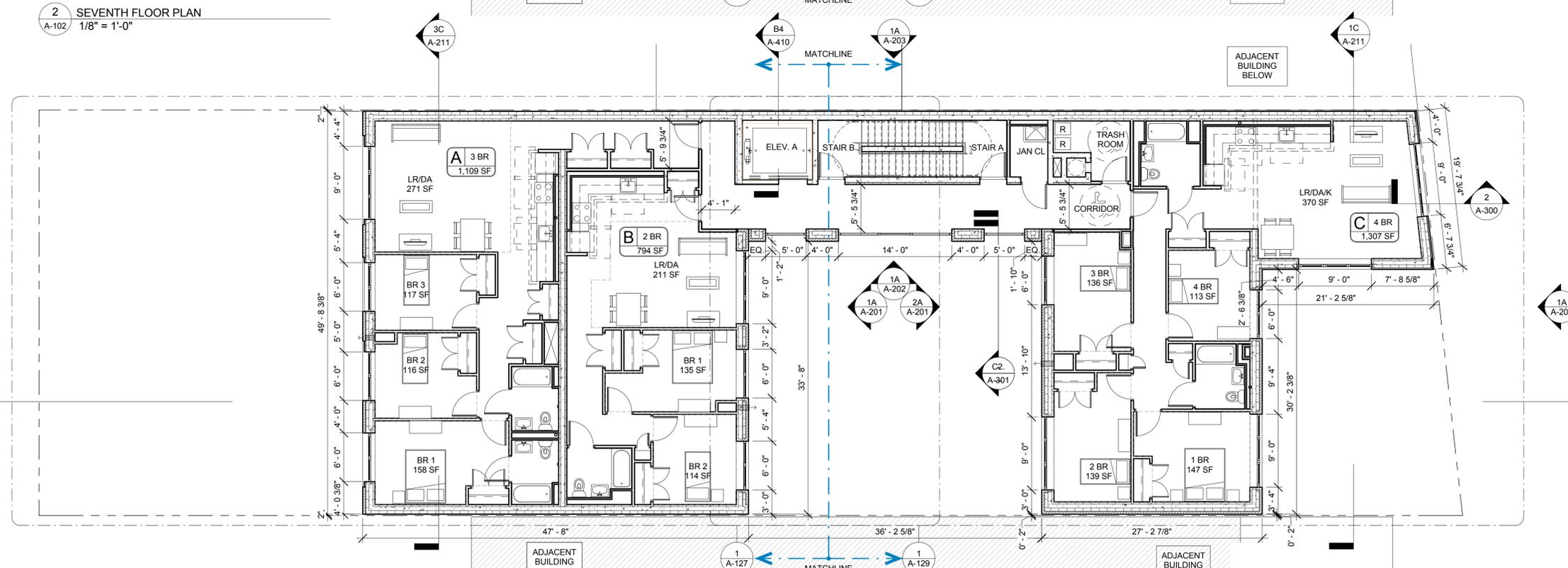
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2 SEVENTH FLOOR PLAN
 A-102 1/8" = 1'-0"

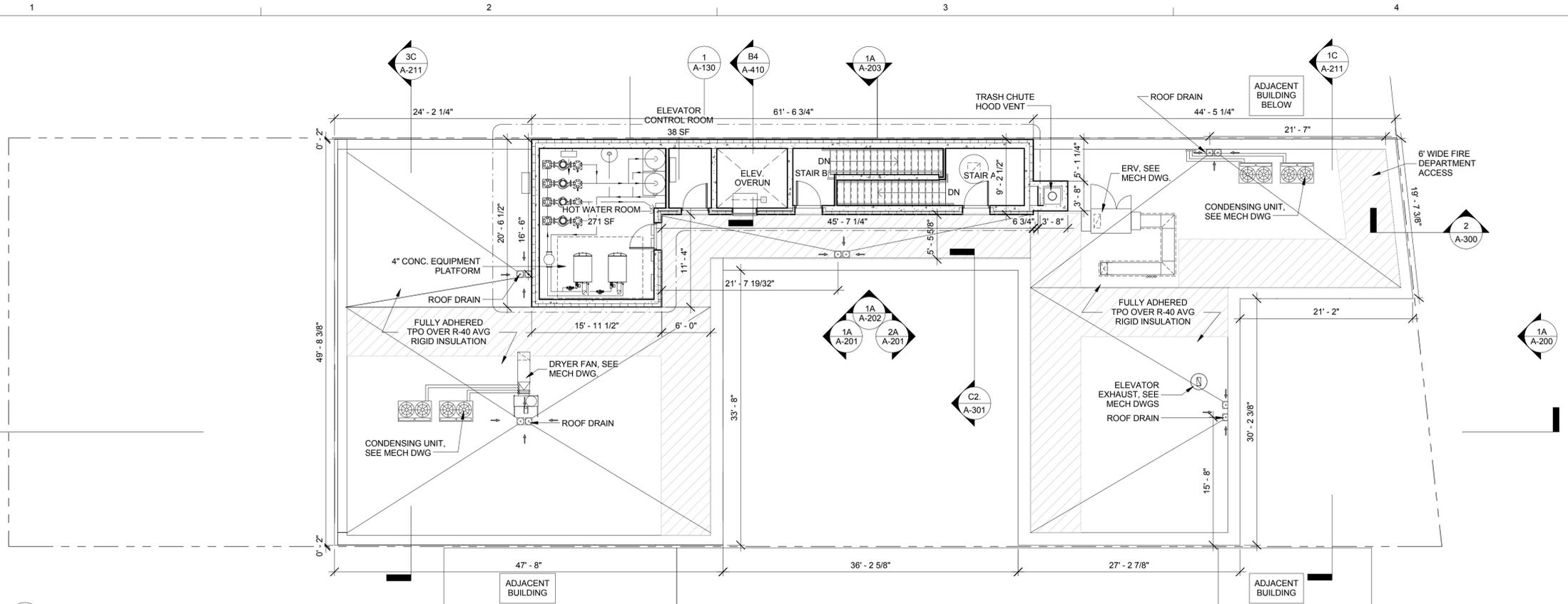


3 EIGHTH FLOOR PLAN
 A-102 1/8" = 1'-0"

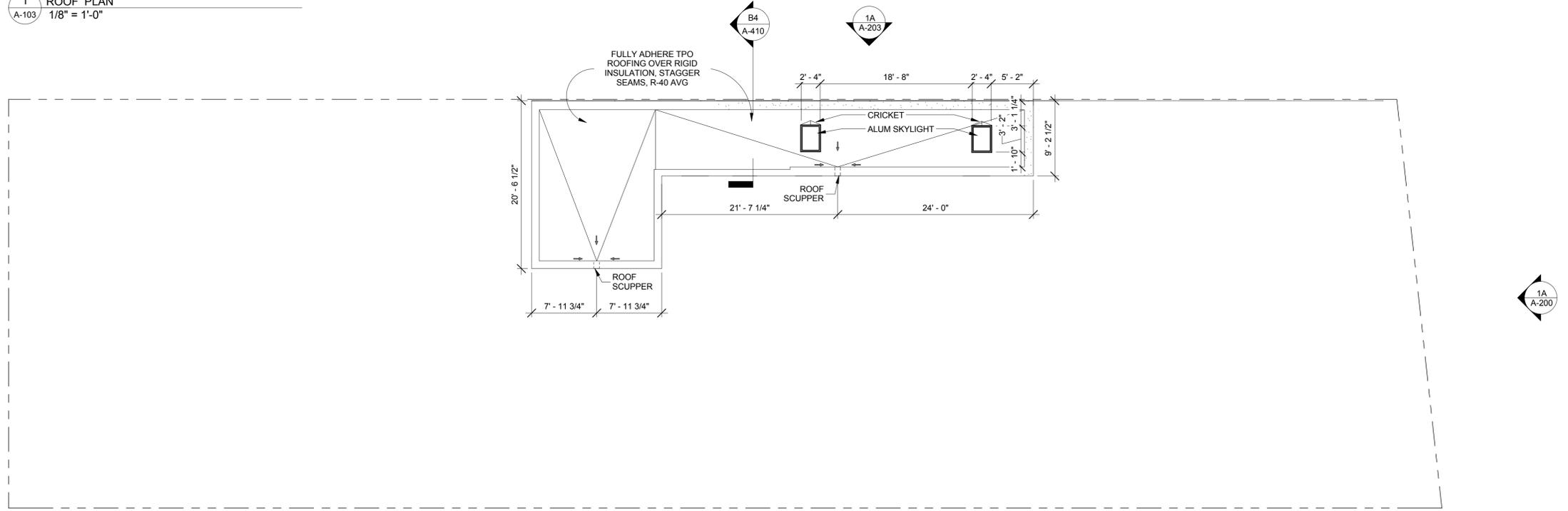
GENERAL NOTES

- SEE 3/32" SCALE PLANS FOR OVERALL BUILDING
- TYPICAL INTERIOR PARTITION - TYPE B (3 3/4") U.O.N.
- ALL CLOSET DOORS TO BE CENTERED ON CLOSET U.O.N.
- ALL CLOSETS ARE 2'-0" DEEP U.O.N.
- SEE A-410 SERIES FOR ELEVATOR PLANS AND SECTIONS
- SEE A-500 SERIES FOR KITCHEN PLANS AND ELEVATIONS
- SEE A-510 SERIES FOR BATHROOM PLANS AND ELEVATIONS
- SEE A-520 FOR LOBBY DETAILS AND ELEVATIONS





1 ROOF PLAN
1/8" = 1'-0"



2 BULKHEAD PLAN
1/8" = 1'-0"

- GENERAL NOTES**
- SEE 3/32" SCALE PLANS FOR OVERALL BUILDING
 - TYPICAL INTERIOR PARTITION - TYPE B (3 3/4") U.O.N.
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 - SEE A-520 FOR LOBBY DETAILS AND ELEVATIONS

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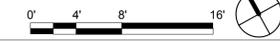
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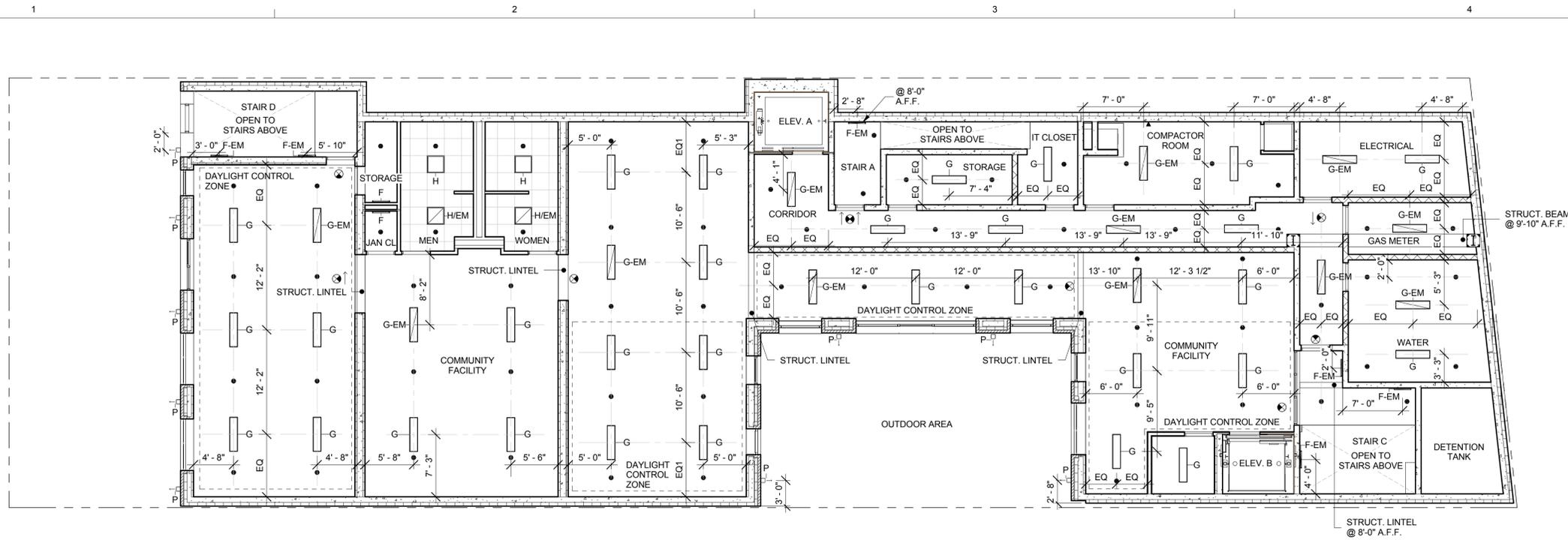
ROOF & BULKHEAD FLOOR PLAN

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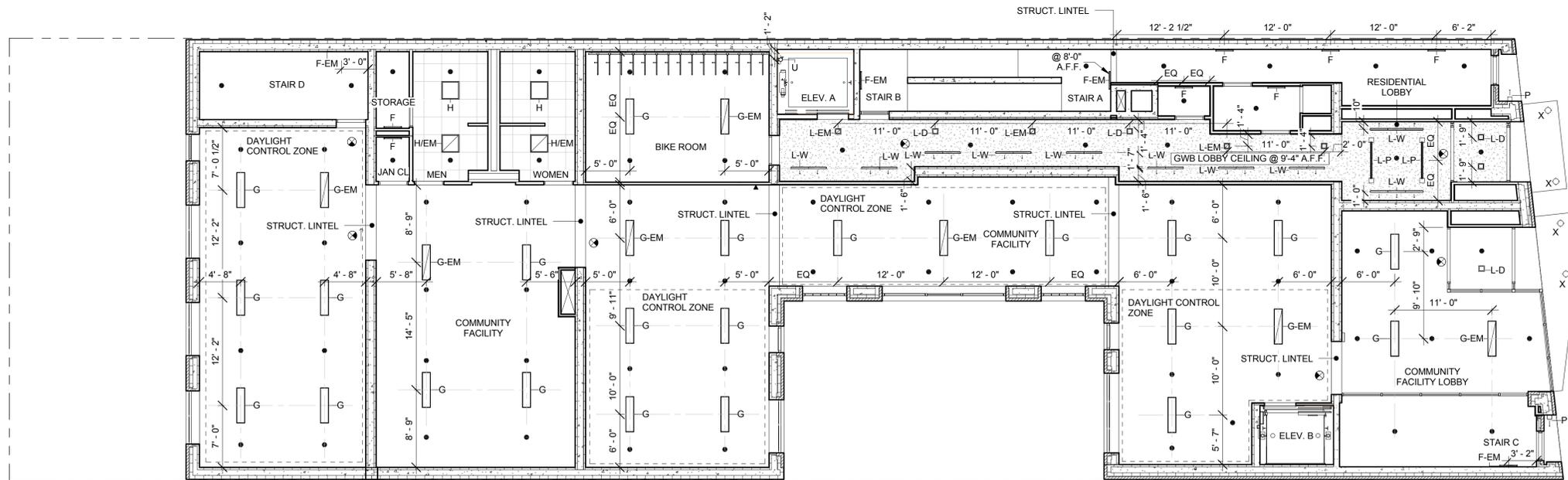
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1 RCP - CELLAR
A-110
1/8" = 1'-0"



2 RCP - FIRST FLOOR
A-110
1/8" = 1'-0"

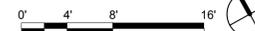
- NOTES:
- G.C. TO PATCH, SMOOTH, SEAL JOINTS AND PAINT EXPOSED STRUCTURE. COLOR AS SELECTED BY OWNER.
 - REVIEW CEILING HEIGHTS W/ ARCH. IF HEIGHTS CANNOT BE MET.
 - REFER TO SPRINKLER DWGS FOR SPRINKLER INFO.
 - REFER TO MECH. DWGS. FOR DUCT AND LOWERS LOCATIONS.
 - G.C. TO COORD. ACCESS PANEL LOCATIONS W/ REQ'D ACCESS. PAINT TO MATCH CEILING.

- WALL MOUNTED FIXTURES TO BE 6'-0" A.F.F. TO CENTERLINE OF FIXTURES U.O.N.
- CEILING MOUNTED/HUNG LIGHTS TO BE CENTERED IN ROOM U.O.N.
- SEE LIGHT FIXTURE SCHEDULE.
- SEE A-603 FOR TYP. CEILING DETAILS.
- BATHROOM WALL SCONES TO BE CENTERED ABOVE SINK & MEDICINE CABINET.

REFLECTED CEILING PLAN KEY TO SYMBOLS

- EXPOSED STRUCTURE TO UNDERSIDE OF PLANK ABOVE. 8'-8" (9'-0" 6TH & 8TH FLOOR)
- TYP. APARTMENT CORRIDOR GYP. BD. CEILING 7'-6" A.F.F. (7'-8" 6TH & 8TH FLOOR)
- TYP. KITCHEN CABINET SOFFIT 6'-11" A.F.F.
- TYP. CORRIDOR & APARTMENT GYP. BD. CEILING 8'-0" A.F.F. (8'-4" 6TH & 8TH FLOOR)
- GYP. BD. CEILING. SEE PLAN FOR HEIGHT
- 2x2 ACT CEILING TILES @ 8'-0" A.F.F. - U.O.N.

- EXIT SIGN (SURFACE MOUNTED)
- EXIT SIGN AND DIRECTIONAL ARROWS
- SMOKE DETECTOR
- COMB. SMOKE AND CARBON MONOXIDE DETECTOR
- SPRINKLER HEAD, SEE FIRE PROTECTION DRAWINGS
- DAYLIGHT ZONES TO HAVE INDEPENDENT MANUAL CONTROL



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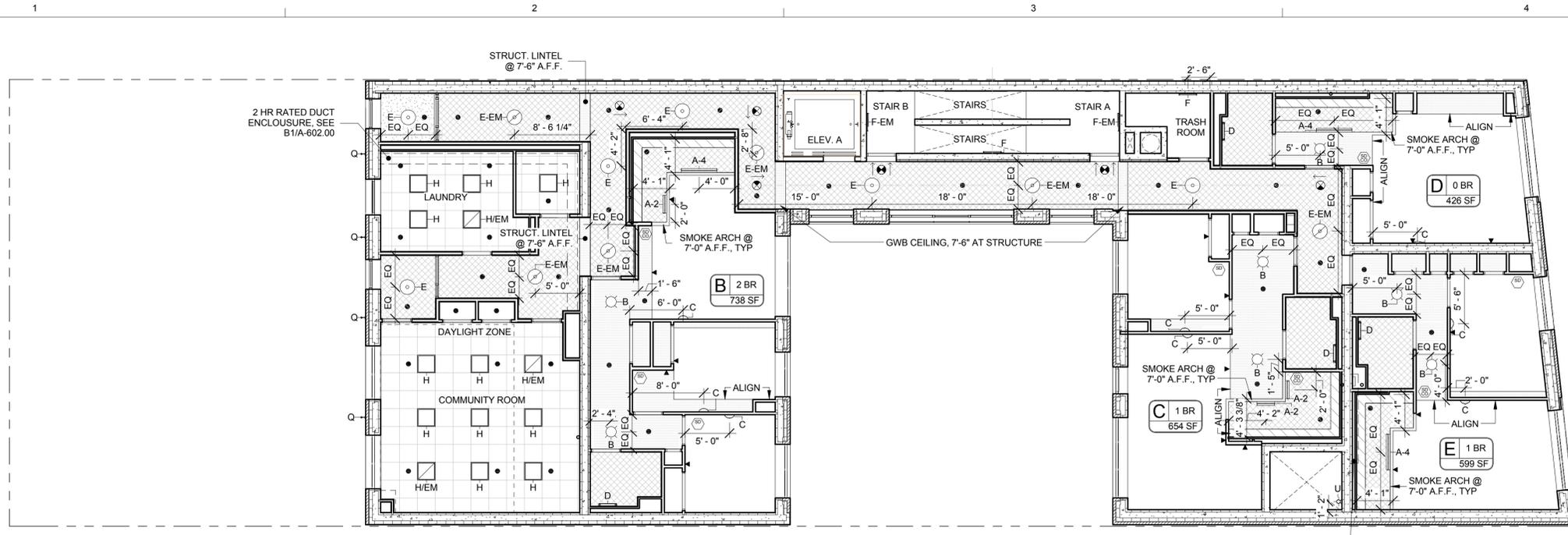
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Title:
RCP - CELLAR & FIRST FLOOR

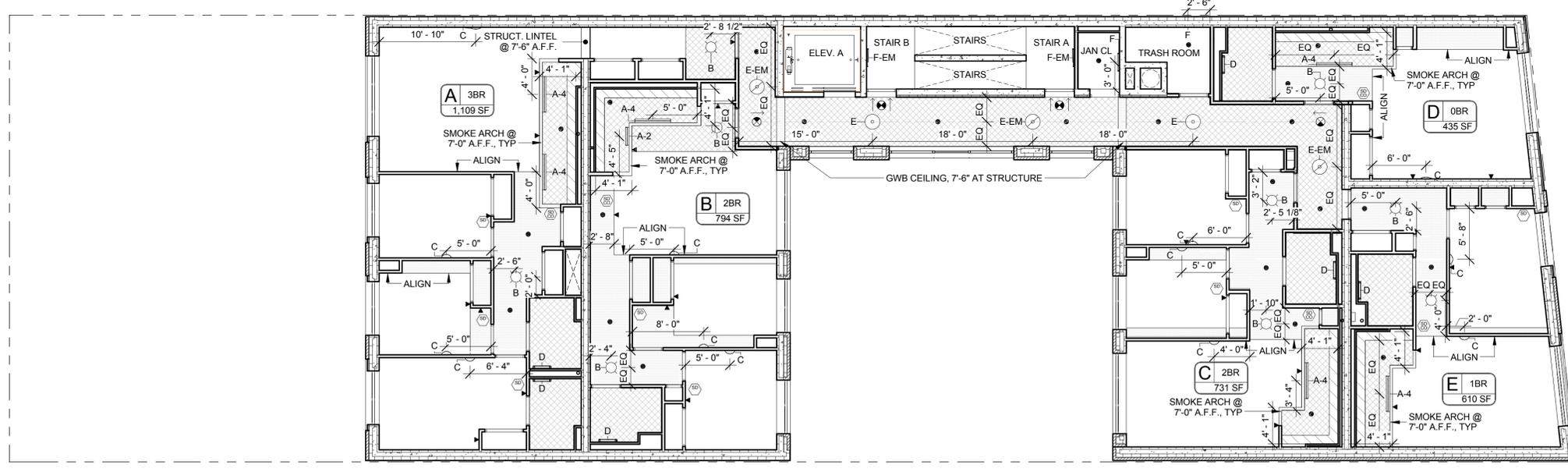


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1 RCP - SECOND FLOOR
A-111 1/8" = 1'-0"



2 RCP - TYP. FLOOR (UFAS)
A-111 1/8" = 1'-0"

- NOTES:**
- G.C. TO PATCH, SMOOTH, SEAL JOINTS AND PAINT EXPOSED STRUCTURE. COLOR AS SELECTED BY OWNER.
 - REVIEW CEILING HEIGHTS W/ ARCH. IF HEIGHTS CANNOT BE MET, CENTERED IN ROOM U.O.N.
 - REFER TO SPRINKLER DWGS FOR SPRINKLER INFO.
 - REFER TO MECH. DWGS. FOR DUCT AND LOUVERS LOCATIONS.
 - G.C. TO COORD. ACCESS PANEL LOCATIONS W/ REQ'D ACCESS. PAINT TO MATCH CEILING.
 - WALL MOUNTED FIXTURES TO BE 6'-0" A.F.F. TO CENTERLINE OF FIXTURES U.O.N.
 - CEILING MOUNTED/HUNG LIGHTS TO BE CENTERED IN ROOM U.O.N.
 - SEE LIGHT FIXTURE SCHEDULE.
 - SEE A-603 FOR TYP. CEILING DETAILS.
 - G.C. TO COORD. ACCESS PANEL LOCATIONS W/ REQ'D ACCESS. PAINT TO MATCH CEILING.
 - BATHROOM WALL SCONES TO BE CENTERED ABOVE SINK & MEDICINE CABINET.

- REFLECTED CEILING PLAN KEY TO SYMBOLS**
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 - TYP. CORRIDOR & APARTMENT GYP. BD. CEILING 8'-0" A.F.F. (8'-4" 6TH & 8TH FLOOR)
 - GYP. BD. CEILING. SEE PLAN FOR HEIGHT
 - 2x2 ACT CEILING TILES @ 8'-0" A.F.F. - U.O.N.

- EXIT SIGN (SURFACE MOUNTED)
- EXIT SIGN AND DIRECTIONAL ARROWS
- SMOKE DETECTOR
- COMB. SMOKE AND CARBON MONOXIDE DETECTOR
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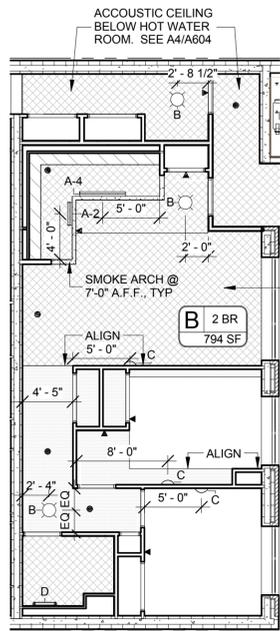
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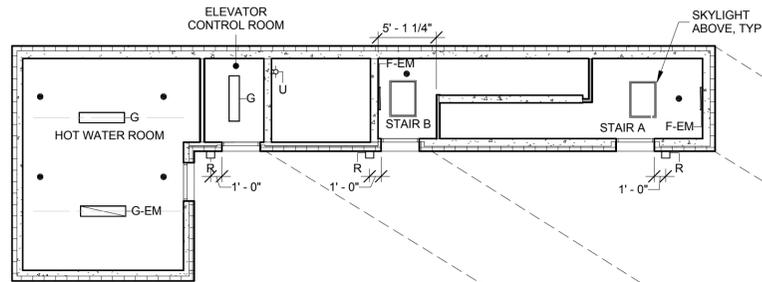
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RCP - SECOND & TYP. FLOOR (4TH, UFAS)

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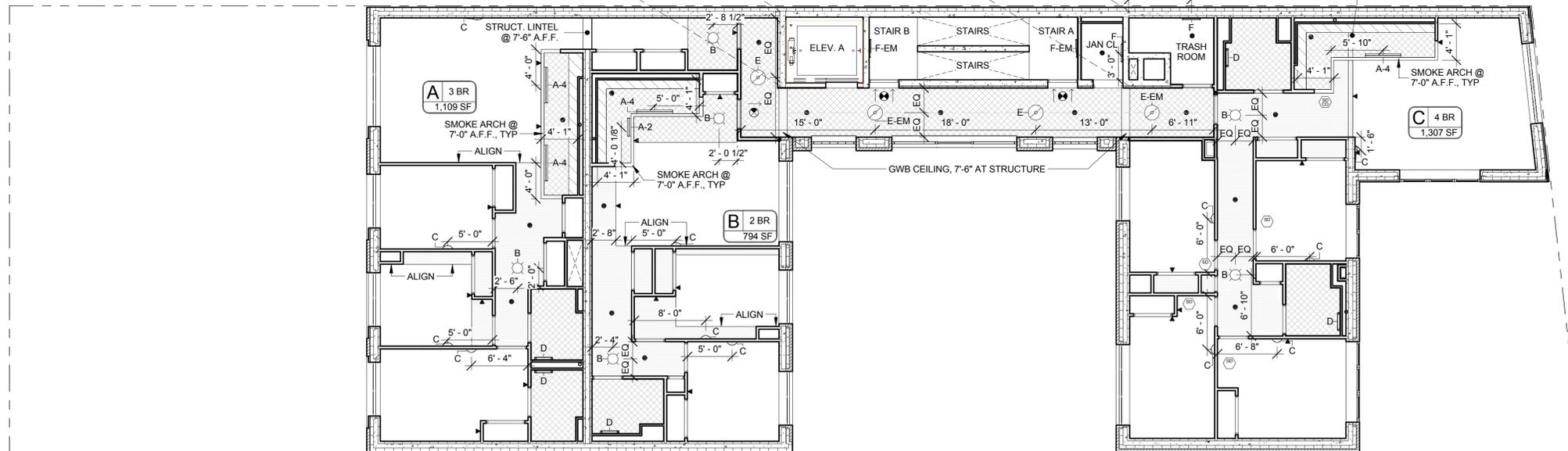
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1 8TH FLOOR - APT B
A-112 1/8" = 1'-0"



2 RCP - ROOF PLAN
A-112 1/8" = 1'-0"



3 RCP - SEVENTH FLOOR & EIGHTH FLOOR
A-112 1/8" = 1'-0"

| TYPE | MATERIAL | DESCRIPTION | MANUFACTURER | FIXTURE NAME | MODEL NUMBER | LAMP | | EFFICACY | | NOTES | | | |
|----------|---------------------------------------|--|-------------------------|----------------------|--------------------------------------|--|------------|------------|-------|-------|-------|--|--|
| | | | | | | QTY. | TYPE | WATTS | VOLTS | | REQ. | PROVIDED | |
| INTERIOR | A2 | APT. KITCHEN | WALL MOUNTED | LAMAR LIGHTING | LUMINAIRE | DLL 24.M | 1 | LED, 3000K | 23 | 120 | 60 | 97 | MOUNT CENTERED IN KITCHENS. DWELLING LIGHTING COMPLIES WITH DEFINITION OF HIGH EFFICACY LIGHTING. |
| | A4 | APT. KITCHEN | WALL MOUNTED | LAMAR LIGHTING | LUMINAIRE | DLL 48.M | 1 | LED, 3000K | 31 | 120 | 60 | 97 | MOUNT CENTERED IN KITCHENS. DWELLING LIGHTING COMPLIES WITH DEFINITION OF HIGH EFFICACY LIGHTING. |
| | B | APARTMENT FOYER | CEILING SURFACE MOUNTED | LAMAR LIGHTING | SATURN | SUNL1018SW-30 | 1 | LED, 3000K | 18 | 120 | 50 | 72 | DWELLING LIGHTING COMPLIES WITH DEFINITION OF HIGH EFFICACY LIGHTING. |
| | C | APT. BEDROOM, LIVING ROOM, DINING ROOM | WALL MOUNTED | PROGRESSIVE LIGHTING | | P7093 | 1 | LED, 3000K | 17 | 120 | 50 | 72 | MOUNT 6'-0" AFF. DWELLING LIGHTING COMPLIES WITH DEFINITION OF HIGH EFFICACY LIGHTING. |
| | D | APT. BATHROOMS | WALL MOUNTED | LAMAR LIGHTING | MIRANDA | MDNL2324SW-30 | 1 | LED, 3000K | 21 | 120 | 50 | 83 | MOUNT CENTERED ABOVE MEDICINE CABINET @ 6'-0" AFF. DWELLING LIGHTING COMPLIES WITH DEFINITION OF HIGH EFFICACY LIGHTING. |
| | E | CORRIDORS | CEILING SURFACE MOUNTED | LAMAR LIGHTING | SHOS 4" | SHLOS1619RSCM-30BL | 1 | LED, 3000K | 12 | 120 | NA | 98 | COLLAR 1800 LUMEN PACKAGE STEP WITH INTERNAL MOTION SENSING AND EXTERNAL DAYLIGHT SENSOR. |
| | E-EM | CORRIDORS | CEILING SURFACE MOUNTED | LAMAR LIGHTING | SHOS 4" | SHLOS1619RSCM-30BL | 1 | LED, 3000K | 12 | 120 | NA | 98 | COLLAR 1800 LUMEN PACKAGE STEP WITH INTERNAL MOTION SENSING, EXTERNAL DAYLIGHT SENSOR, AND EMERGENCY LIGHTING. |
| | F | TRASH ROOM | SURFACE MOUNTED | LAMAR LIGHTING | VOYAGER | VOL-2M-FA-30-2CM, VOL-4M-FA-30-2C | 1 | LED, 3000K | 43 | 120 | NA | 97.25 | MOUNT 6'-0" AFF. 4" FIXTURE. OCC. SENSOR TRIGGERS ON AT FULL POWER FROM ON AT 30% POWER. |
| | F-EM | STAIRWELL LANDINGS | SURFACE MOUNTED | LAMAR LIGHTING | VOYAGER | VOL-2M-FA-30-2C-EM, VOL-4M-FA-30-2C | 1 | LED, 3000K | 43 | 120 | NA | 97.25 | MOUNT 6'-0" AFF. 4" FIXTURE. OCC. SENSOR TRIGGERS ON AT FULL POWER FROM ON AT 30% POWER. |
| | G | UTILITY ROOMS | CEILING MOUNTED | MERCURY LIGHTING | M106 SERIES | M106-232-OCT/ST-A-MRT-ELB-UNI-EMPK132 | 1 | LED, 5000K | 34 | 120 | NA | 42 | VACANCY SENSOR |
| | G-EM | UTILITY ROOMS | CEILING MOUNTED | MERCURY LIGHTING | M106 SERIES | M106-232-OCT/ST-A-MRT-ELB-UNI-EMPK132 | 1 | LED, 5000K | 34 | 120 | NA | 42 | VACANCY SENSOR. 90 MIN. EMERGENCY POWER. |
| | H | COMMUNITY ROOM & LAUNDRY | CEILING MOUNTED | RAB LIGHTING | 2X2 PANEL | PANEL 2X2-41YN | 1 | LED, 3500K | 41 | 120 | NA | 92 | INDEPENDANT MANUAL CONTROL FOR DAYLIGHT ZONES. VACANCY SENSOR. |
| | H-EM | COMMUNITY ROOM & LAUNDRY | CEILING MOUNTED | RAB LIGHTING | 2X2 PANEL | PANEL 2X2-41NE1 | 1 | LED, 4000K | 41 | 120 | NA | 95 | INDEPENDANT MANUAL CONTROL FOR DAYLIGHT ZONES. VACANCY SENSOR. 90 MIN. EMERGENCY POWER. |
| | L-P | LOBBY - PENDANT | CEILING MOUNTED | ARCHLIT | LEESTI WOODWIND | LEAR-30-WH-2-A-EM | 1 | LED, 3000K | 50 | 120 | NA | 90 | |
| | L-W | LOBBY - WALL WASH | CEILING MOUNTED | ARCHLIT | TUTTI ASYMMETRICAL | TUPA-30-WH-2-(1)D-SQ-36 | 1 | LED, 3000K | 34 | 120 | NA | 75 | |
| L-D | LOBBY - DOWNLIGHT | RECESSED | RAB LIGHTING | 4" LED | NDLED4S-WY-S-W - DRIVER + ND4S12F | 1 | LED, 3000K | 12 | 120 | NA | 56.67 | | |
| L-EM | LOBBY - DOWNLIGHT | RECESSED | RAB LIGHTING | 4" LED | NDLED4S-WY-S-W - DRIVER + ND4S12F/E2 | 1 | LED, 3000K | 12 | 120 | NA | 56.67 | 90 MIN. EMERGENCY POWER. | |
| U | ELEVATOR PIT | SURFACE MOUNTED | RAB LIGHTING | VXBR | VXBRLED13DG | 1 | LED, 5000K | 13 | 120 | NA | 48 | | |
| W | EXIT SIGN, CLEAR - ALL FIRST & GROUND | CEILING MOUNTED | ATLITE LIGHTING | MARATHON | S-C-1-B-RM-SA or S-C-2-B-RM-SA | - | LED | - | 120 | NA | - | 3.5 WATT PER SIDE. SEE PLANS FOR MOUNT, NUMBER OF FACES AND REQUIRED ARROWS. | |
| W1 | EXIT SIGN, ALUMINUM - TYPICAL FLOORS | SURFACE MOUNTED | ATLITE LIGHTING | XLN2 | XLN2-6DR1C or XLN2-6DR2C | - | LED | - | 120 | NA | - | 3.5 WATT PER SIDE. SEE PLANS FOR MOUNT, NUMBER OF FACES AND REQUIRED ARROWS. | |
| EXTERIOR | P | EXTERIOR WALL LIGHT | WALL MOUNTED | INDESSA LIGHTING | BRAVO 546 | 1LED19 | 1 | LED, 3000K | 19 | 120 | NA | 116 | MOUNT 6'-0" AFF. |
| | R | EXTERIOR LIGHT | WALL MOUNTED | RAB LIGHTING | LED WALLPACK | WPLED20 | 1 | LED, 5000K | 20 | 120 | NA | 65 | MOUNT 6'-0" AFF. |
| | Q | EXTERIOR LIGHT | WALL MOUNTED | STERBERG LIGHTING | RIALTA RT403 | RT403CA-2BL45T_AID_05 | 1 | LED, 3500K | 49 | 120 | NA | 60 | MOUNT 6'-0" AFF. |
| | X | EXTERIOR CANOPY DOWNLIGHT | DOWNLIGHT | LUMENPULSE | LUMENALPHA | LACN-A-120-L13-30K-CR80-M-SQ-NS-ND-NC-WET-NA | 1 | LED, 3000K | 16 | 120 | NA | 82 | COMPLIES WITH DARK SKY |

GENERAL NOTES:
 1. OR-80
 2. COLOR TEMPERATURE 3000K
 3. HIGH EFFICACY LAMPS DEFINITION:
 COMPACT FLUORESCENT LAMP T8 OR SMALLER DIAMETER LINEAR FLUORESCENT LAMPS OR LAMPS WITH MIN. EFFICACY OF:
 A. 60 LUMENS PER WATT FOR LAMPS OVER 40 WATTS
 B. 50 LUMENS PER WATT FOR LAMPS OVER 15 WATTS TO 40 WATTS
 C. 40 LUMENS PER WATT FOR LAMPS 15 WATTS OR LESS.

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RCP -7TH, 8TH, ROOF & LIGHTING SCHEDULE



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- NOTES:
- G.C. TO PATCH, SMOOTH, SEAL JOINTS AND PAINT EXPOSED STRUCTURE. COLOR AS SELECTED BY OWNER.
 - REVIEW CEILING HEIGHTS W/ ARCH. IF HEIGHTS CANNOT BE MET.
 - REFER TO SPRINKLER DWGS FOR SPRINKLER INFO.
 - REFER TO MECH. DWGS. FOR DUCT AND LOUVERS LOCATIONS.
 - G.C. TO COORD. ACCESS PANEL LOCATIONS W/ REQ'D ACCESS. PAINT TO MATCH CEILING.

- WALL MOUNTED FIXTURES TO BE 6'-0" A.F.F. TO CENTERLINE OF FIXTURES U.O.N.
- CEILING MOUNTED/HUNG LIGHTS TO BE CENTERED IN ROOM U.O.N.
- SEE LIGHT FIXTURE SCHEDULE
- SEE A-603 FOR TYP. CEILING DETAILS.
- BATHROOM WALL SCONES TO BE CENTERED ABOVE SINK & MEDICINE CABINET.

REFLECTED CEILING PLAN KEY TO SYMBOLS

- EXPOSED STRUCTURE TO UNDERSIDE OF PLANK ABOVE. 8'-8" (9'-0" 6TH & 8TH FLOOR)
- TYP. APARTMENT CORRIDOR GYP. BD. CEILING 7'-6" A.F.F. (7'-8" 6TH & 8TH FLOOR)
- TYP. KITCHEN CABINET SOFFIT 6'-11" A.F.F.
- TYP. CORRIDOR & APARTMENT GYP. BD. CEILING 8'-0" A.F.F. (8'-4" 6TH & 8TH FLOOR)
- GYP. BD. CEILING. SEE PLAN FOR HEIGHT
- 2'x2' ACT CEILING TILES @ 8'-0" A.F.F. - U.O.N.

- EXIT SIGN (SURFACE MOUNTED)
- EXIT SIGN AND DIRECTIONAL ARROWS
- SMOKE DETECTOR
- COMB. SMOKE AND CARBON MONOXIDE DETECTOR
- SPRINKLER HEAD, SEE FIRE PROTECTION DRAWINGS
- DAYLIGHT ZONES TO HAVE INDEPENDANT MANUAL CONTROL



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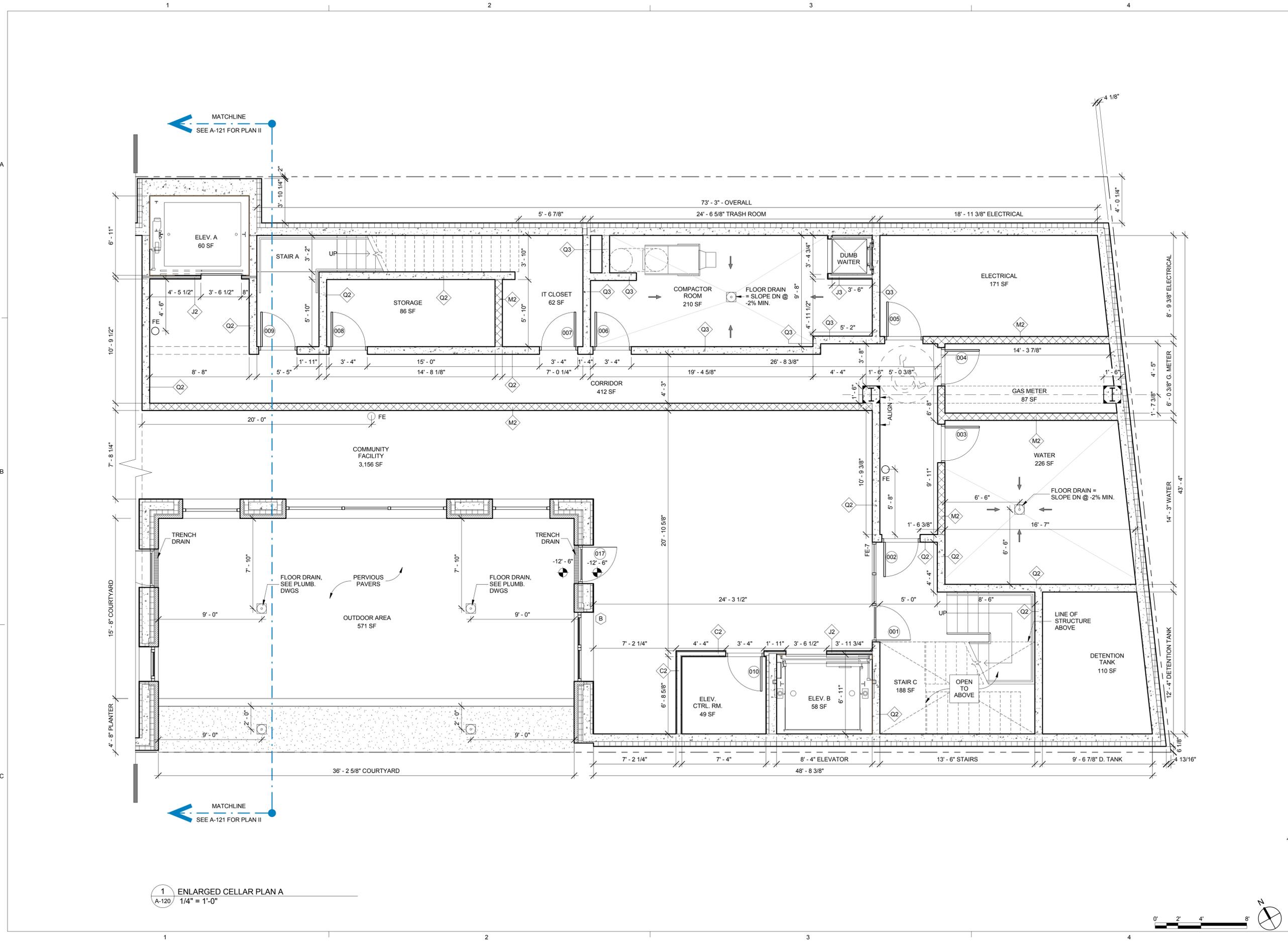
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1 ENLARGED CELLAR PLAN A
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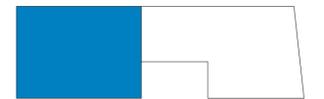
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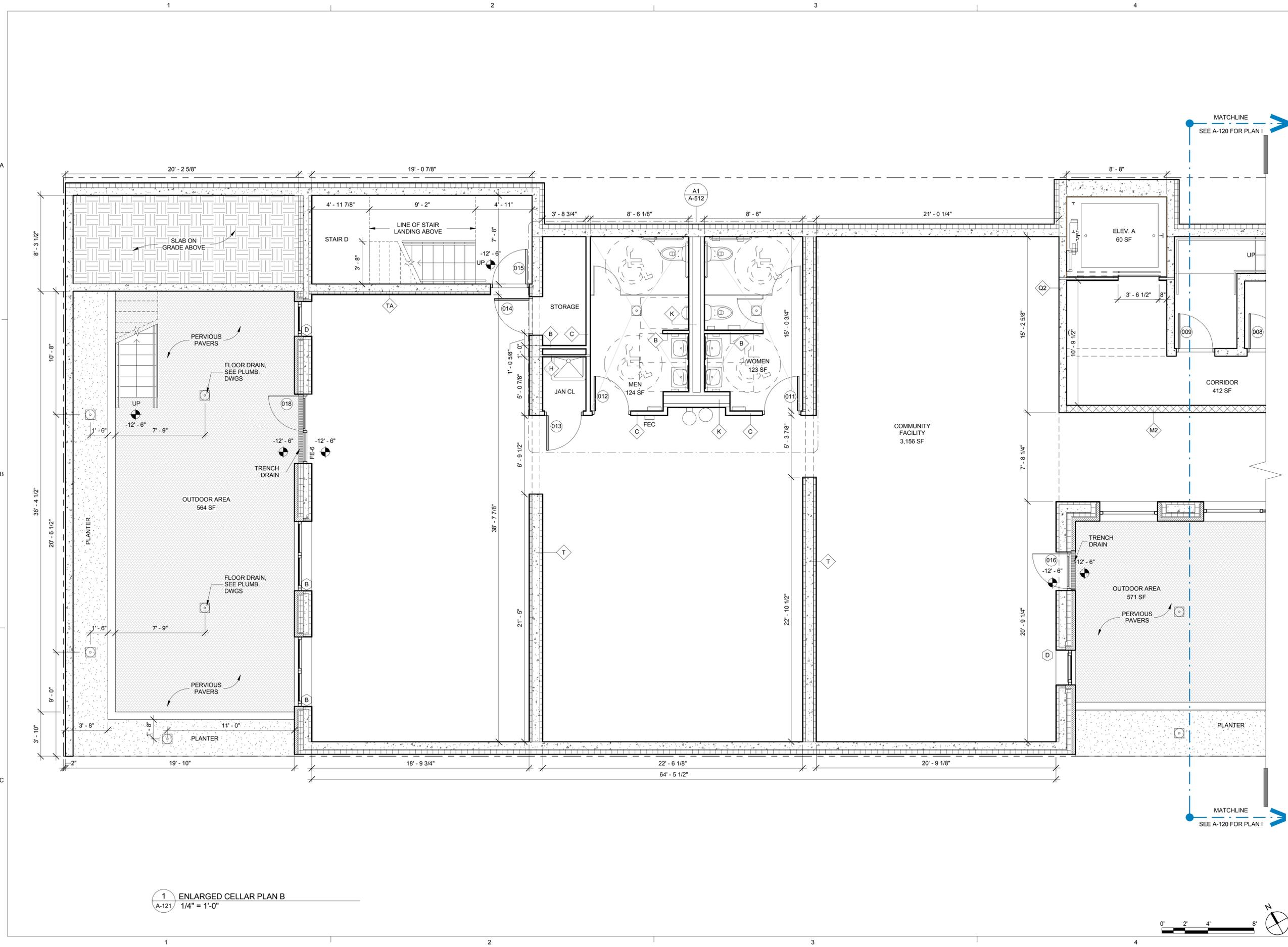
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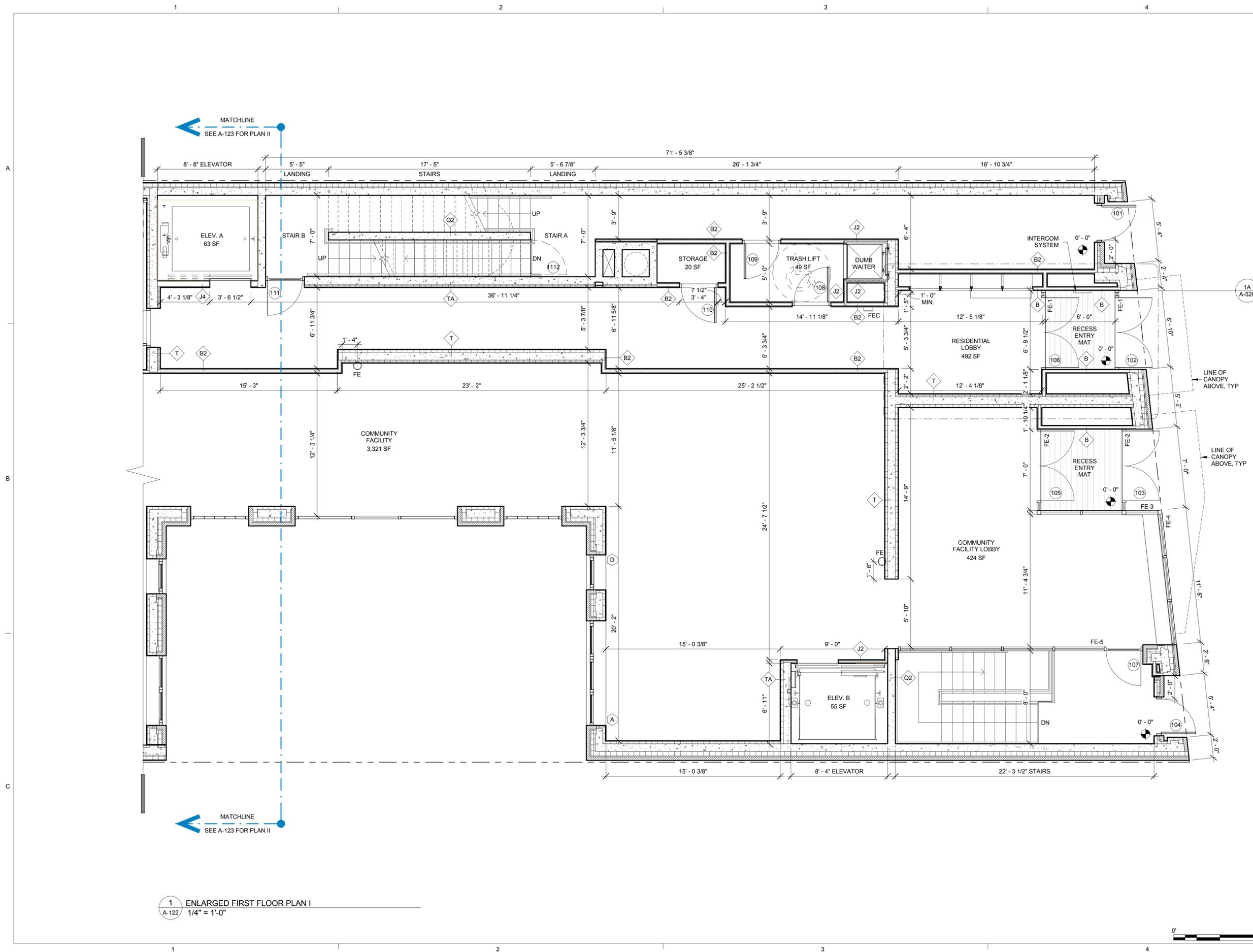
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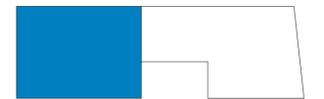
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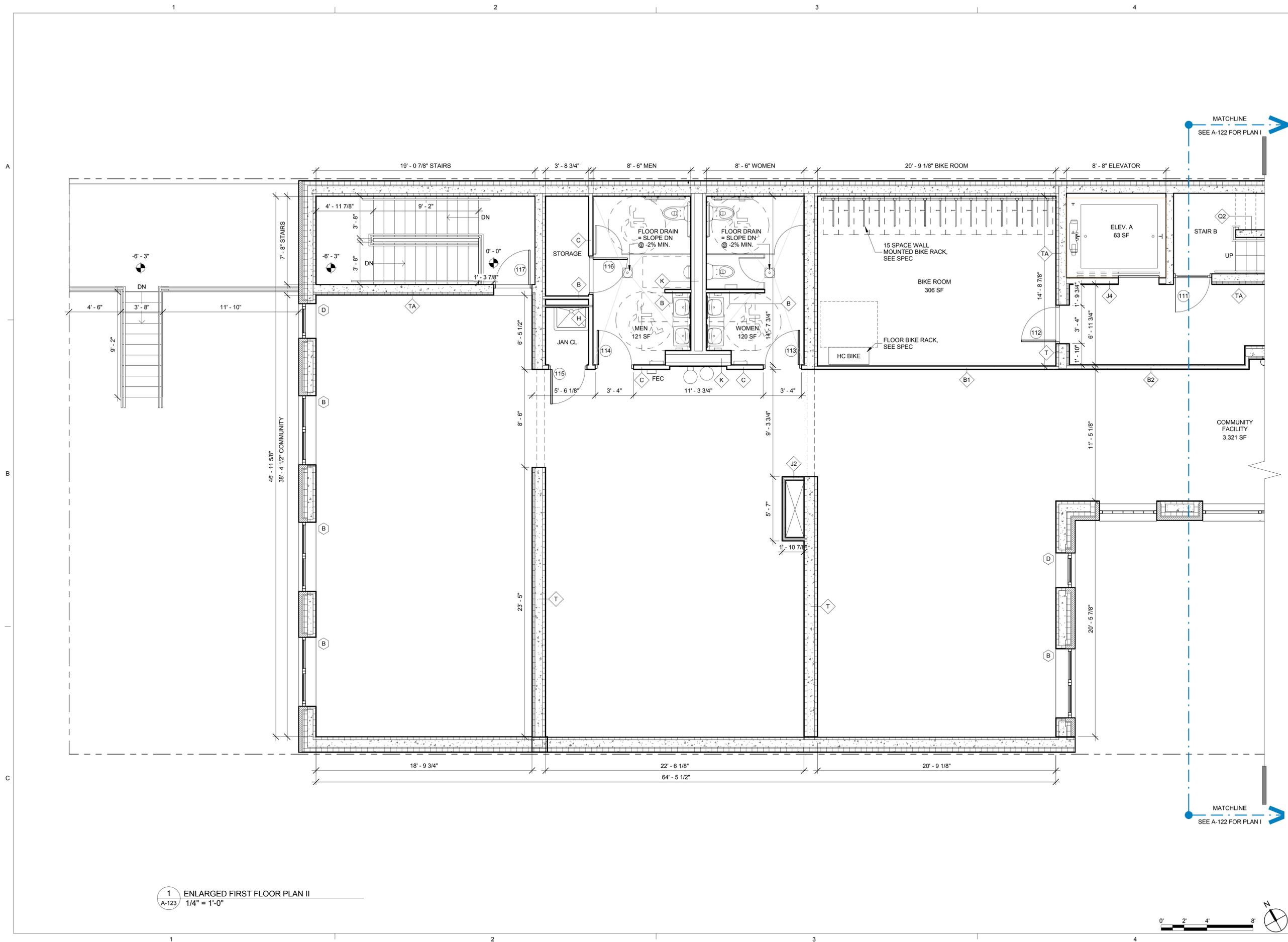
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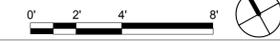
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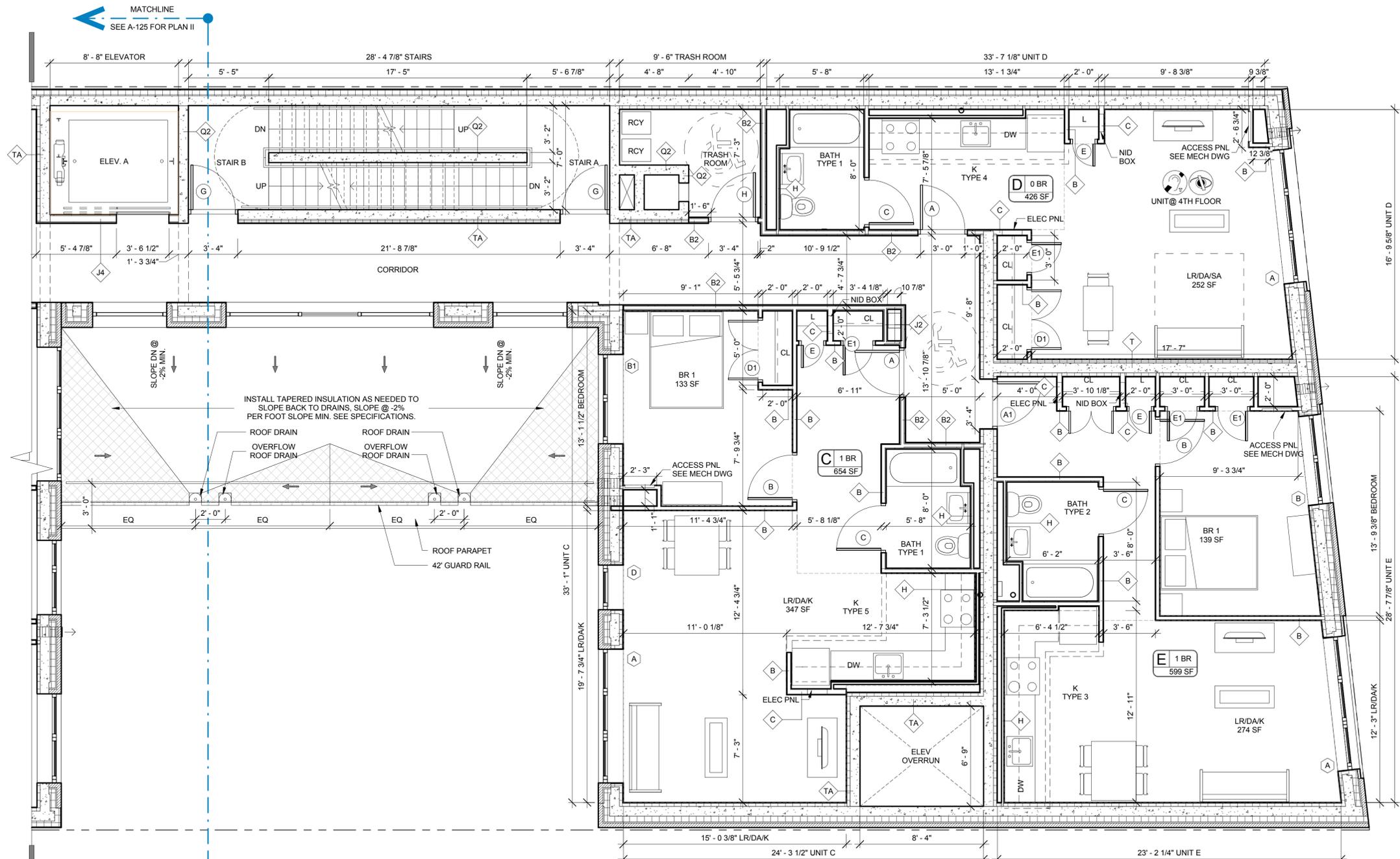
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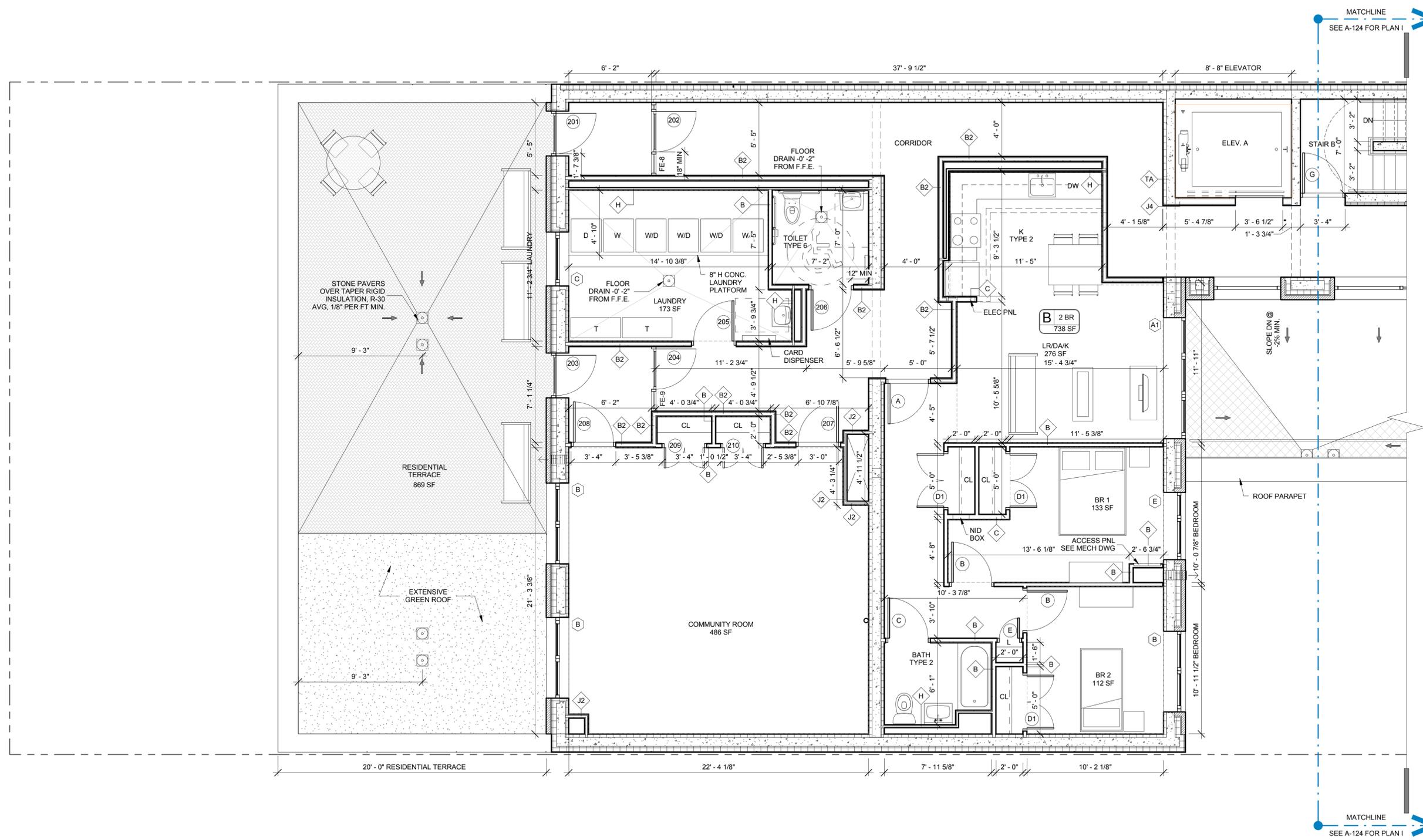
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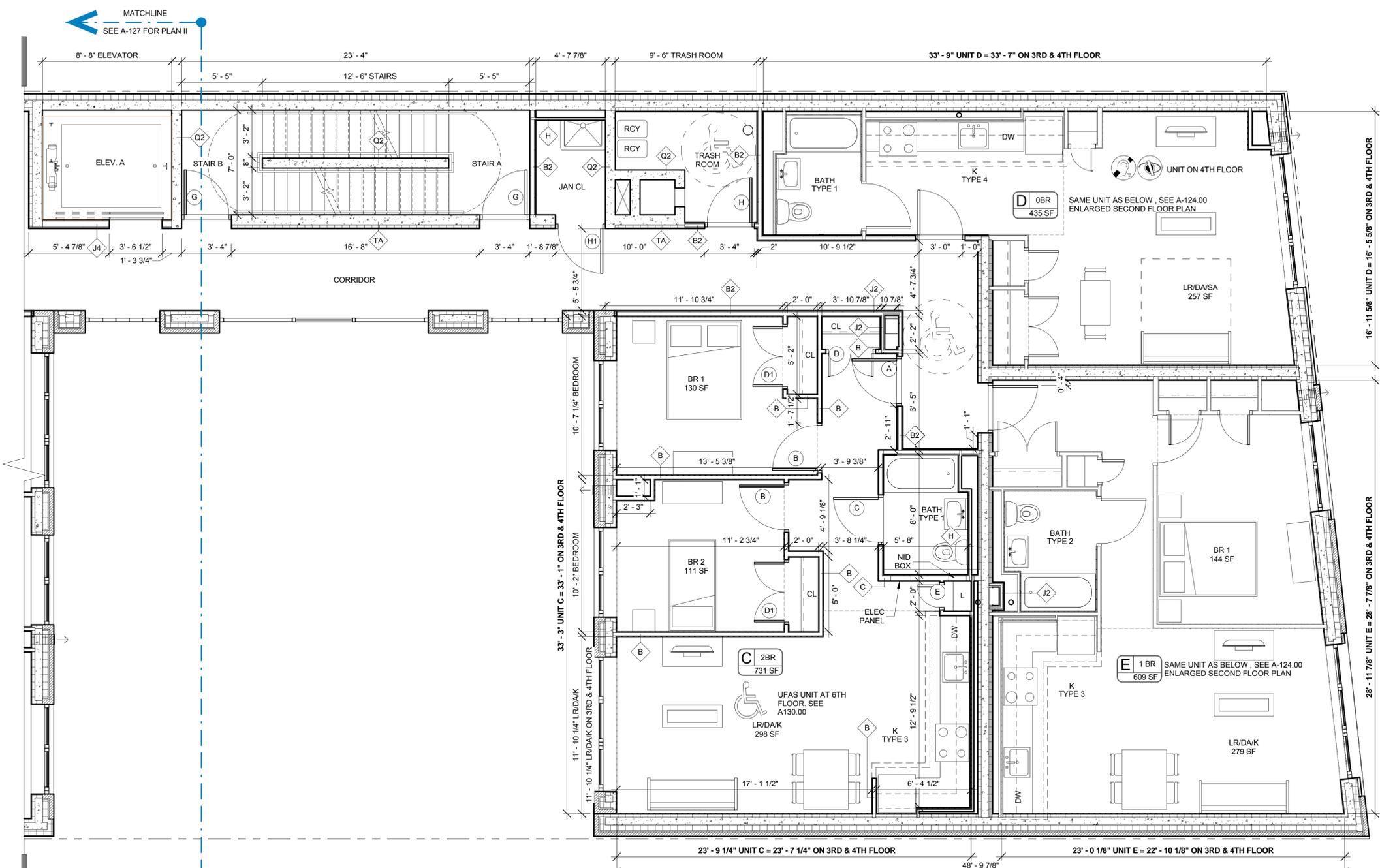
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1 ENLARGED TYP. FLOOR PLAN I (FLOOR 3, 5, 6)
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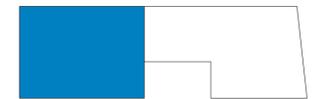
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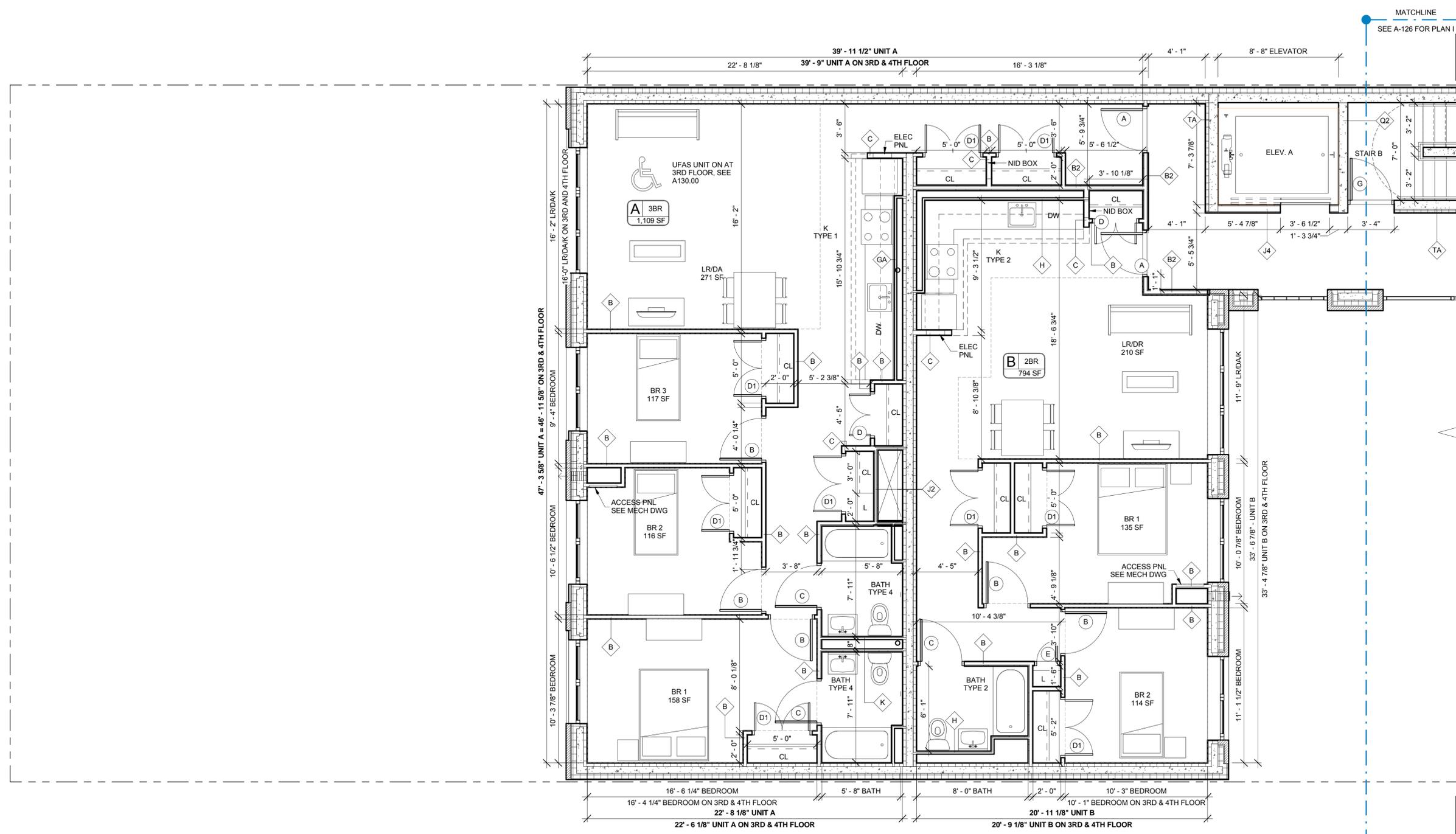
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ENLARGED SEVENTH FLOOR PLAN I



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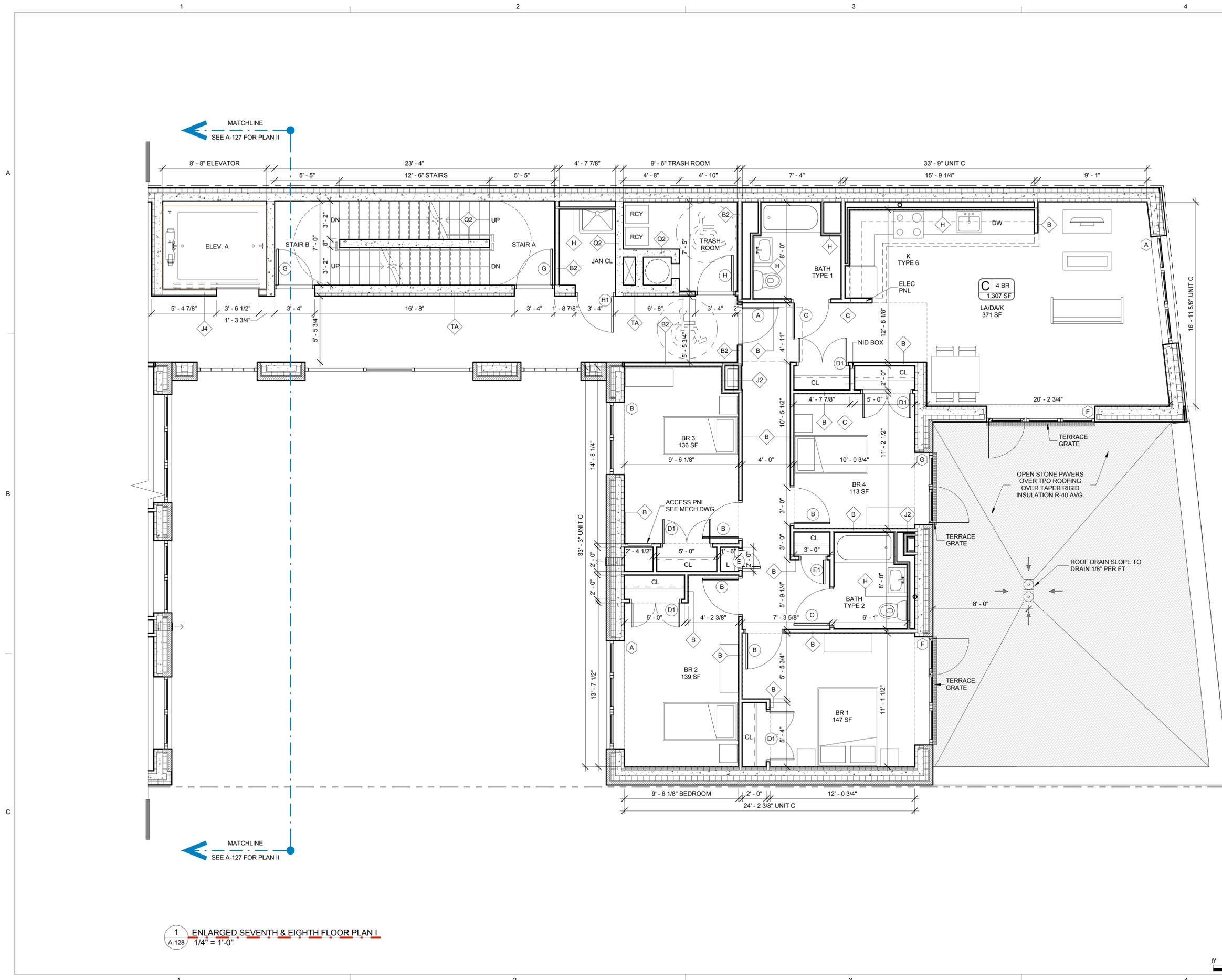
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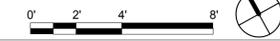
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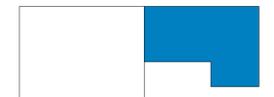
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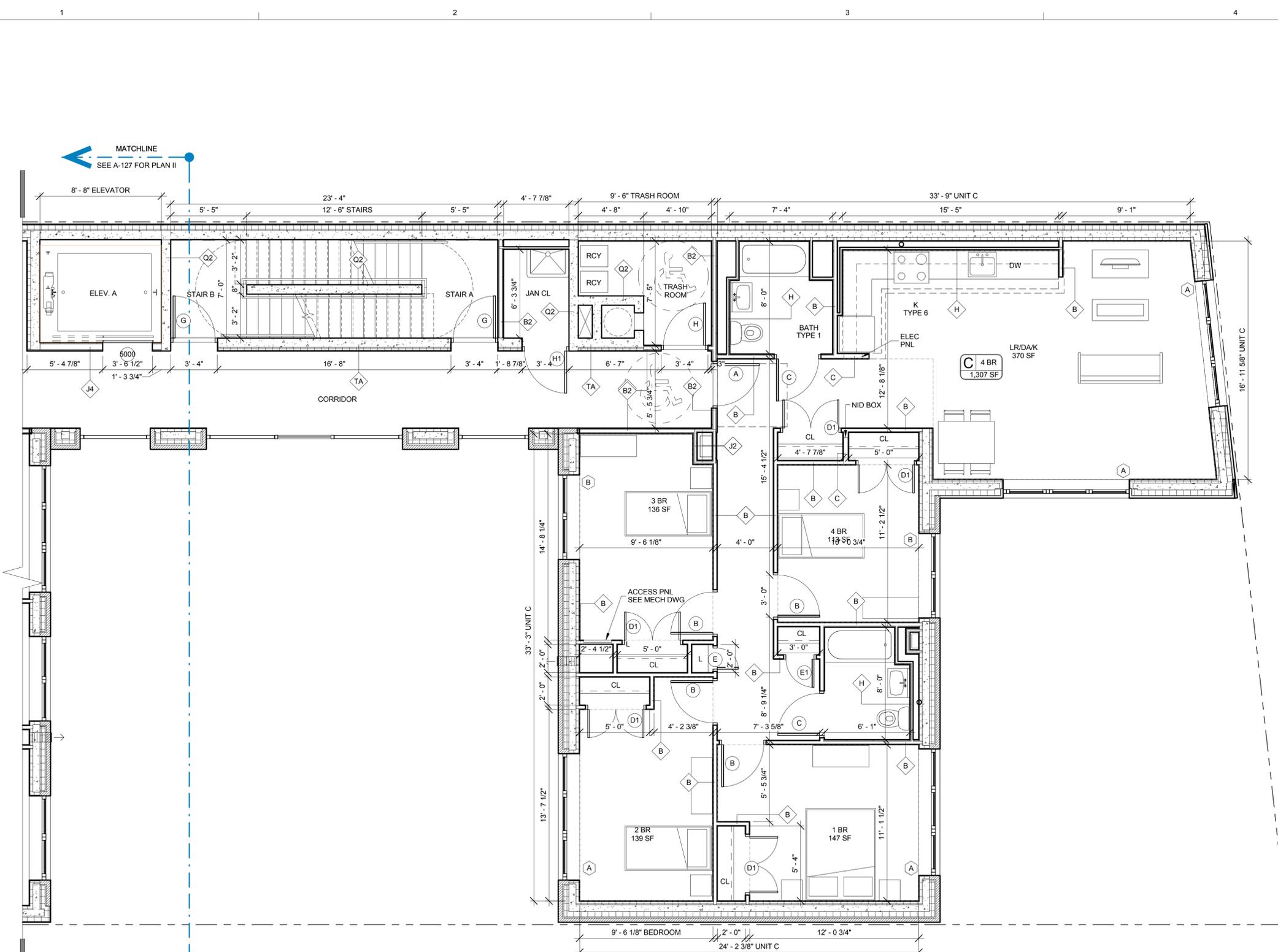
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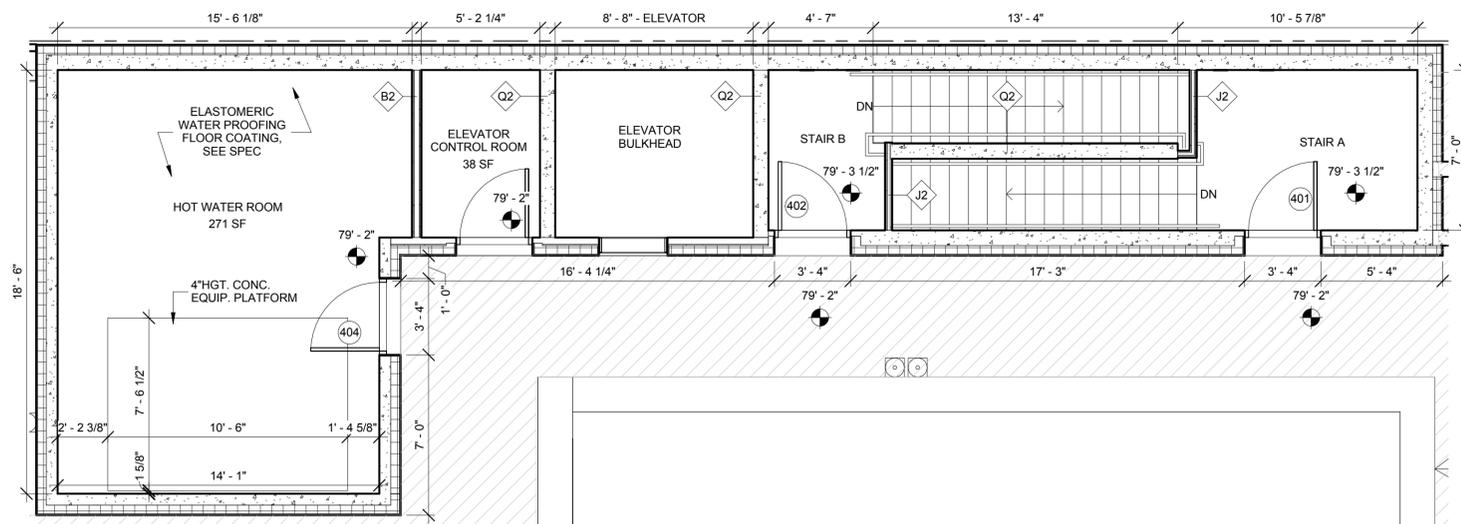
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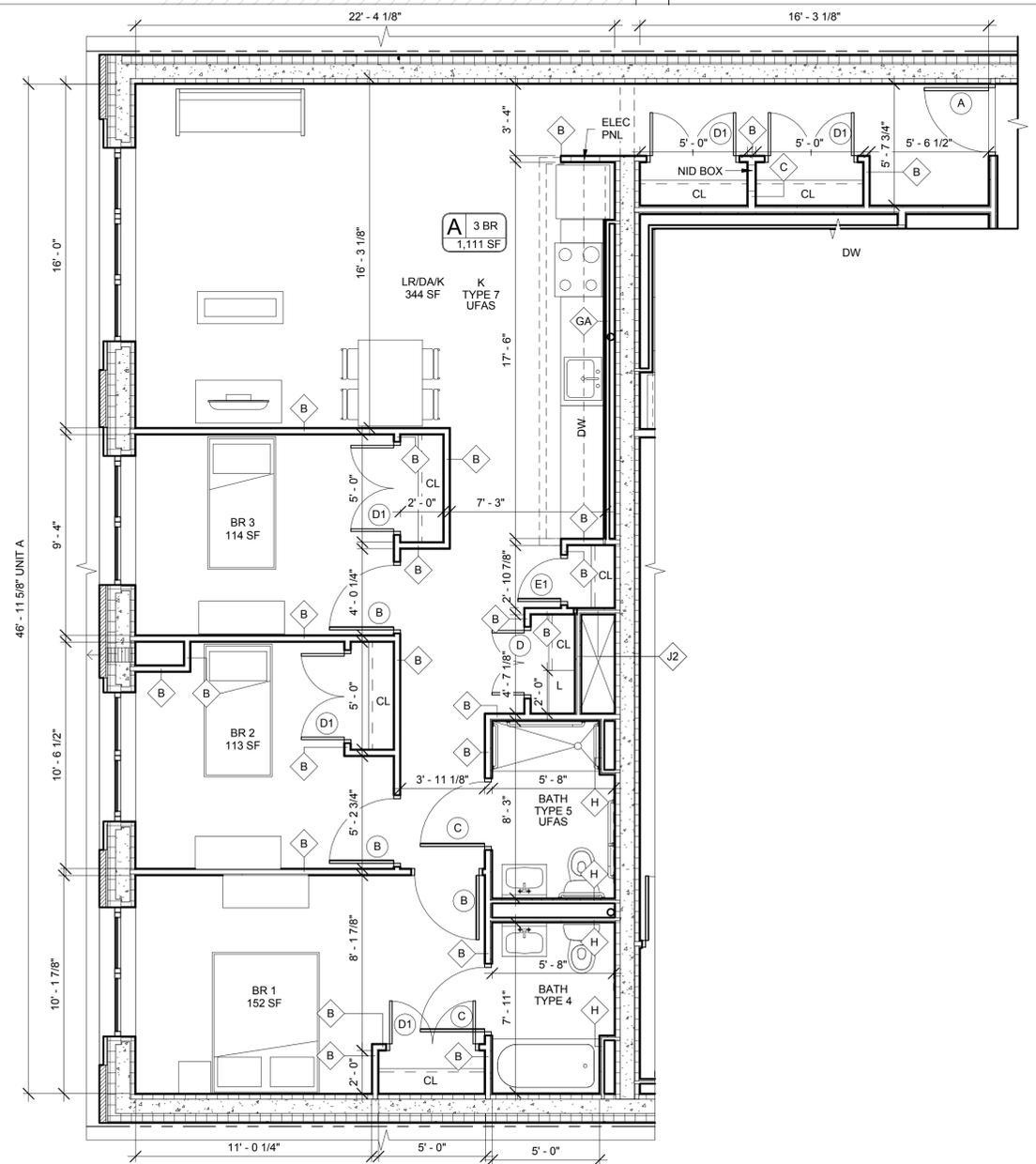


1 ENLARGED EIGHTH FLOOR PLAN I
 A-129 1/4" = 1'-0"

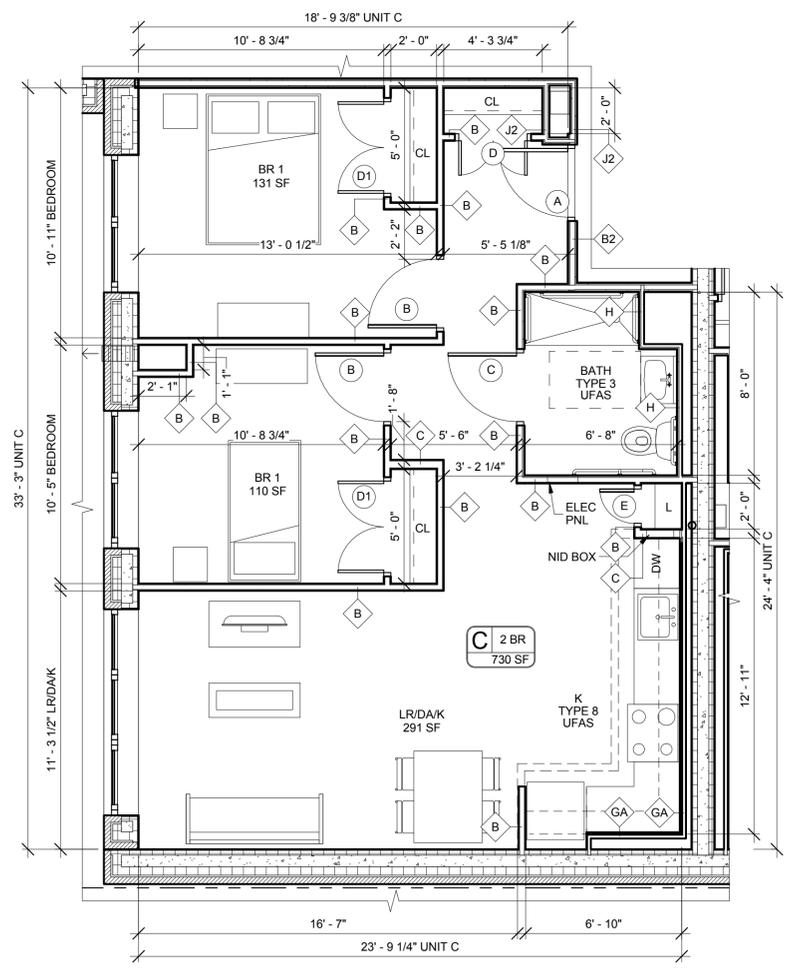




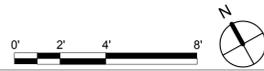
1 ENLARGED ROOF PLAN
A-130 1/4" = 1'-0"



2 UNIT A UFAS - 3RD FLOOR
A-130 1/4" = 1'-0"



3 UNIT C UFAS - 6TH FLOOR
A-130 1/4" = 1'-0"



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ENLARGED ROOF PLAN & UFAS UNIT A AND C



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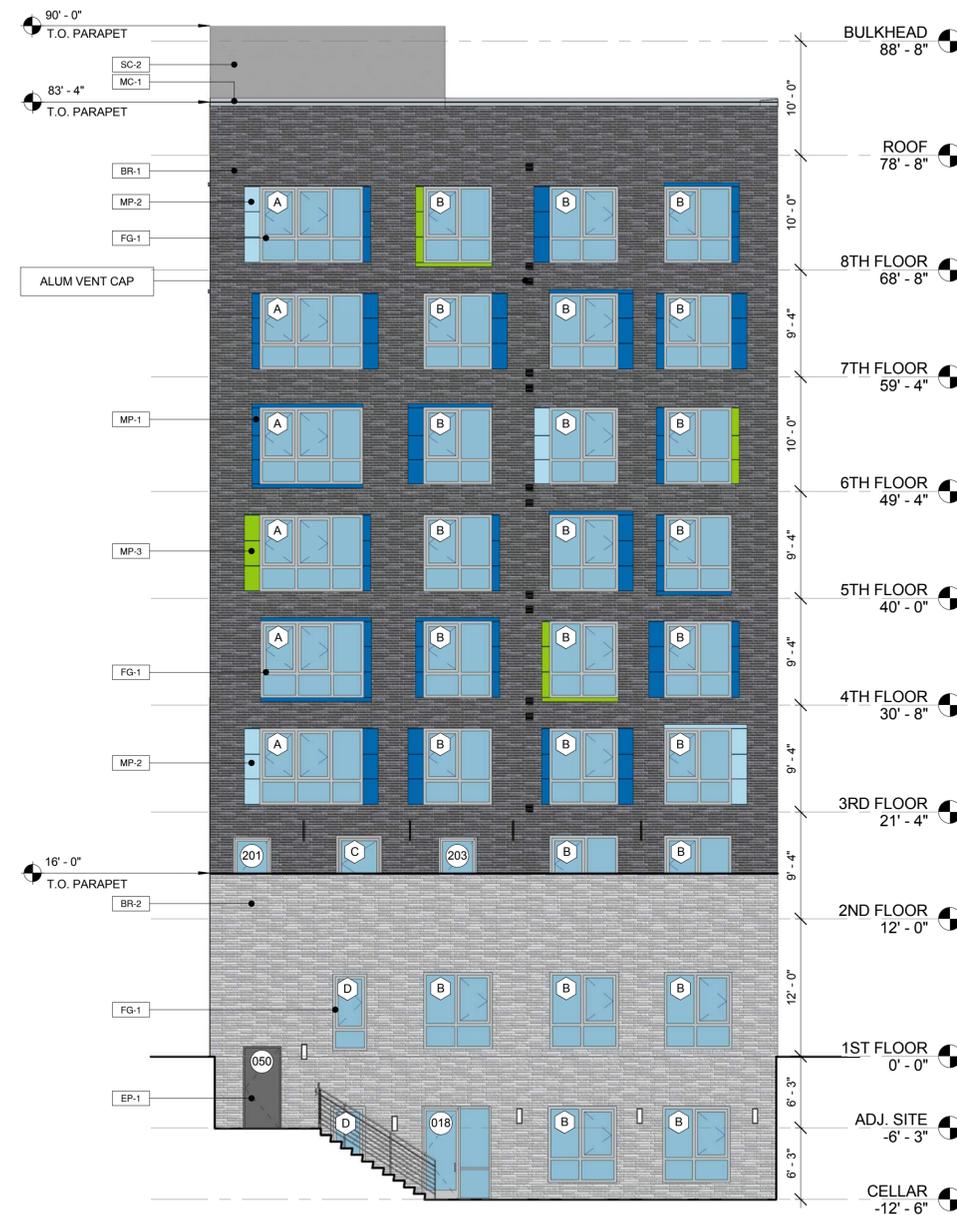
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A-200.00

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1A EXTERIOR EAST ELEVATION
 A-200 1/8" = 1'-0"



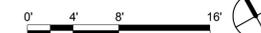
2A EXTERIOR WEST ELEVATION
 A-200 1/8" = 1'-0"

FINISH MATERIAL LEGEND

| IMAGE | CODE | MATERIAL | MANUFACTURER | SERIES / MODEL | COLOR | TYPE / SIZE | NOTES / LOCATION |
|-------|------|---------------|----------------|--------------------------|--|---|---|
| | MP-1 | METAL PANEL A | DRI DESIGN | - | SW 6959 BLUE CHIP | - | EXTERIOR EAST, WEST FACADE & SOUTH KALWALL DESIGN |
| | MP-2 | METAL PANEL B | DRI DESIGN | - | SW 6952 BLUE CLICK | - | EXTERIOR EAST, WEST FACADE & SOUTH KALWALL DESIGN |
| | MP-3 | METAL PANEL C | DRI DESIGN | - | SW 6921 ELECTRIC LIME | - | EXTERIOR EAST, WEST FACADE & SOUTH KALWALL DESIGN |
| | MP-4 | METAL PANEL D | DRI DESIGN | - | SW 7068 GRIZZLE GREY | - | EXTERIOR SOUTH KALWALL DESIGN |
| | BR-1 | BRICK | KINGSTON BLOCK | ROYAL (2 1/4" X 15 5/8") | 80% - PORT EWING BLACK 20% - COOL GRAY / LEXINGTON GRAY | SPLIT FACE SPLIT FACE | EXTERIOR EAST & WEST FACADE |
| | BR-2 | BRICK | KINGSTON BLOCK | ROYAL (2 1/4" X 15 5/8") | 50% - CLINTON GRAY 30% - CLINTON GRAY 20% - CLINTON GRAY | GROUND FACE SPLIT FACE MATTE FACE | 7TH & 8TH FLOOR, INTERIOR COURTYARD, EXTERIOR COMMUNITY SPACE AREA. |

MISC.

| IMAGE | CODE | MATERIAL | MANUFACTURER | SERIES / MODEL | COLOR | TYPE / SIZE | NOTES / LOCATION |
|-------|------|--------------------|---------------------|----------------|--------------------------------|-------------|-----------------------------------|
| | SC-1 | STUCCO | STO CORP. | - | 37307 MEDIUM TEXTURE | - | EXTERIOR NORTH & SOUTH FACADE. |
| | SC-2 | STUCCO | STO CORP. | - | 37304 MEDIUM TEXTURE | - | EXTERIOR NORTH & SOUTH FACADE. |
| | SC-3 | STUCCO | STO CORP. | - | 37100 MEDIUM TEXTURE | - | EXTERIOR NORTH & SOUTH FACADE. |
| | SC-4 | STUCCO | STO CORP. | - | 35101 MEDIUM TEXTURE | - | EXTERIOR NORTH |
| | SC-5 | STUCCO | STO CORP. | - | 35205 MEDIUM TEXTURE | - | EXTERIOR NORTH |
| | AL-1 | ALUMINUM | KALWALL | - | MATCH GRAPHITE MICA OR SW 7068 | - | KALWALL MULLIONS |
| | EP-1 | EXTERIOR PAINT | SHERWIN WILLIAMS | - | SW 7068 GRIZZLE GREY | GLOSS | EXTERIOR DOORS, FRAMES, AND RAILS |
| | FG-1 | FIBERGLASS | IN-LINE FIBER GLASS | 301/325 SERIES | SLATE | CASEMENT | DOOR/WINDOW SYSTEM. SEE A-320. |
| | KW-1 | PANEL SYSTEM | KALWALL | U-10 | ICE BLUE | - | KALWALL PANELS |
| | MC-1 | METAL CAP FLASHING | - | - | MATCH EP-1 | - | PARAPET CAP |



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1A EXTERIOR ELEVATION - COURTYARD EAST
A-201 1/8" = 1'-0"



2A EXTERIOR ELEVATION - COURTYARD WEST
A-201 1/8" = 1'-0"

| FINISH MATERIAL LEGEND | | | | | | | |
|------------------------|------|---------------|----------------|--------------------------|--|---|---|
| IMAGE | CODE | MATERIAL | MANUFACTURER | SERIES / MODEL | COLOR | TYPE / SIZE | NOTES / LOCATION |
| | MP-1 | METAL PANEL A | DRI DESIGN | - | SW 6959 BLUE CHIP | - | EXTERIOR EAST, WEST FACADE & SOUTH KALWALL DESIGN |
| | MP-2 | METAL PANEL B | DRI DESIGN | - | SW 6952 BLUE CLICK | - | EXTERIOR EAST, WEST FACADE & SOUTH KALWALL DESIGN |
| | MP-3 | METAL PANEL C | DRI DESIGN | - | SW 6921 ELECTRIC LIME | - | EXTERIOR EAST, WEST FACADE & SOUTH KALWALL DESIGN |
| | MP-4 | METAL PANEL D | DRI DESIGN | - | SW 7068 GRIZZLE GREY | - | EXTERIOR SOUTH KALWALL DESIGN |
| | BR-1 | BRICK | KINGSTON BLOCK | ROYAL (2 1/4" X 15 5/8") | 80% - PORT EWING BLACK 20% - COOL GRAY / LEXINGTON GRAY | SPLIT FACE SPLIT FACE | EXTERIOR EAST & WEST FACADE |
| | BR-2 | BRICK | KINGSTON BLOCK | ROYAL (2 1/4" X 15 5/8") | 50% - CLINTON GRAY 30% - CLINTON GRAY 20% - CLINTON GRAY | GROUND FACE SPLIT FACE MATTE FACE | 7TH & 8TH FLOOR, INTERIOR COURTYARD, EXTERIOR COMMUNITY SPACE AREA. |

| IMAGE | CODE | MATERIAL | MANUFACTURER | SERIES / MODEL | COLOR | TYPE / SIZE | NOTES / LOCATION |
|-------|------|--------------------|---------------------|----------------|--------------------------------|-------------|-----------------------------------|
| | SC-1 | STUCCO | STO CORP. | - | 37307 MEDIUM TEXTURE | - | EXTERIOR NORTH & SOUTH FACADE. |
| | SC-2 | STUCCO | STO CORP. | - | 37304 MEDIUM TEXTURE | - | EXTERIOR NORTH & SOUTH FACADE. |
| | SC-3 | STUCCO | STO CORP. | - | 37100 MEDIUM TEXTURE | - | EXTERIOR NORTH & SOUTH FACADE. |
| | SC-4 | STUCCO | STO CORP. | - | 35101 MEDIUM TEXTURE | - | EXTERIOR NORTH |
| | SC-5 | STUCCO | STO CORP. | - | 35205 MEDIUM TEXTURE | - | EXTERIOR NORTH |
| | AL-1 | ALUMINUM | KALWALL | - | MATCH GRAPHITE MICA OR SW 7068 | - | KALWALL MULLIONS |
| | EP-1 | EXTERIOR PAINT | SHERWIN WILLIAMS | - | SW 7068 GRIZZLE GREY | GLOSS | EXTERIOR DOORS, FRAMES, AND RAILS |
| | FG-1 | FIBERGLASS | IN-LINE FIBER GLASS | 301/325 SERIES | SLATE | CASEMENT | DOOR/WINDOW SYSTEM. SEE A-320. |
| | KW-1 | PANEL SYSTEM | KALWALL | U-.10 | ICE BLUE | - | KALWALL PANELS |
| | MC-1 | METAL CAP FLASHING | - | - | MATCH EP-1 | - | PARAPET CAP |



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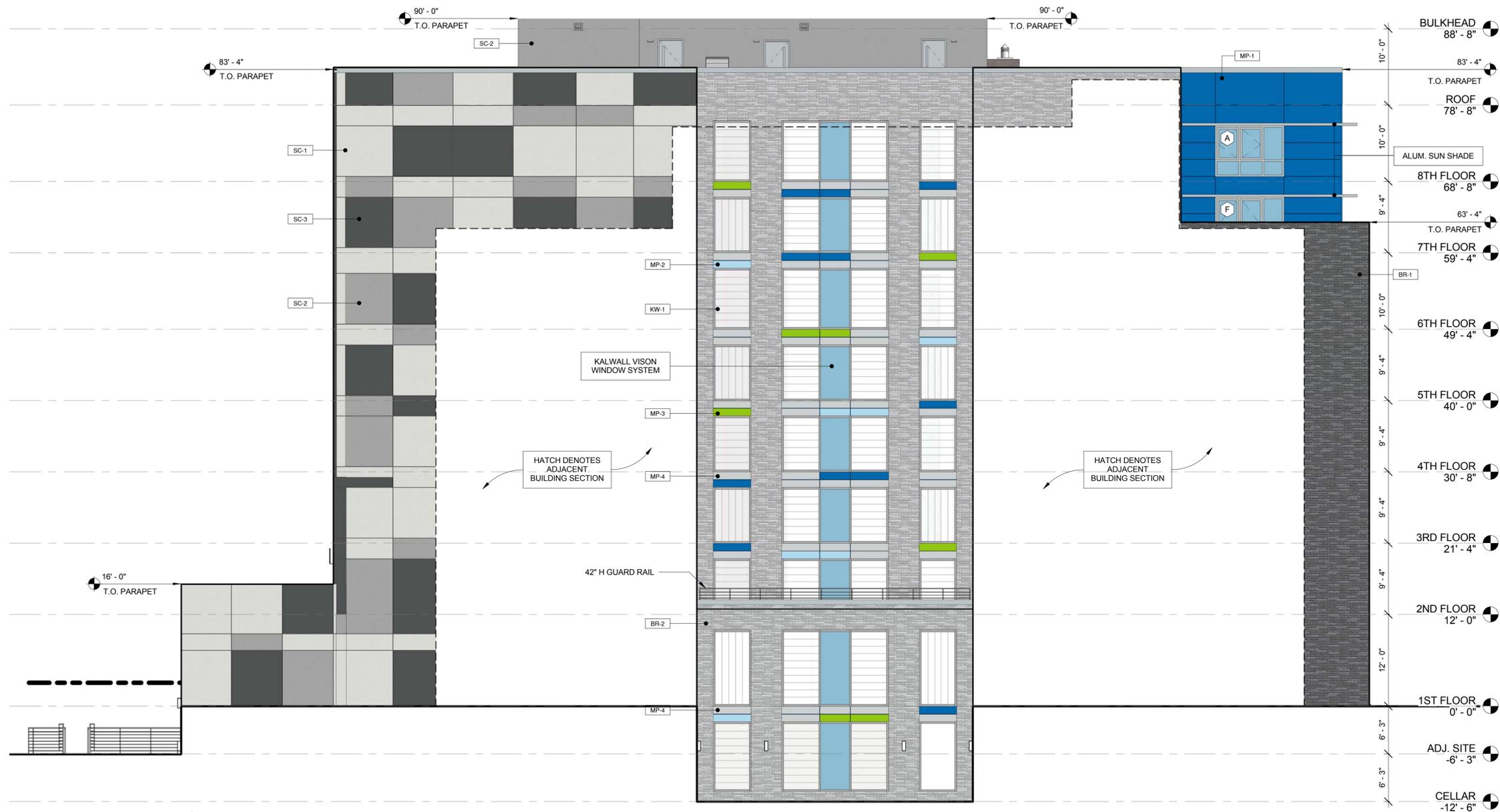
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1A EXTERIOR ELEVATION COURTYARD SOUTH
A-202 1/8" = 1'-0"

FINISH MATERIAL LEGEND

| IMAGE | CODE | MATERIAL | MANUFACTURER | SERIES / MODEL | COLOR | TYPE / SIZE | NOTES / LOCATION |
|-------|------|---------------|----------------|--------------------------|--|---|---|
| | MP-1 | METAL PANEL A | DRI DESIGN | - | SW 6959 BLUE CHIP | - | EXTERIOR EAST, WEST FACADE & SOUTH KALWALL DESIGN |
| | MP-2 | METAL PANEL B | DRI DESIGN | - | SW 6952 BLUE CLICK | - | EXTERIOR EAST, WEST FACADE & SOUTH KALWALL DESIGN |
| | MP-3 | METAL PANEL C | DRI DESIGN | - | SW 6921 ELECTRIC LIME | - | EXTERIOR EAST, WEST FACADE & SOUTH KALWALL DESIGN |
| | MP-4 | METAL PANEL D | DRI DESIGN | - | SW 7068 GRIZZLE GREY | - | EXTERIOR SOUTH KALWALL DESIGN |
| | BR-1 | BRICK | KINGSTON BLOCK | ROYAL (2 1/4" X 15 5/8") | 80% - PORT EWING BLACK 20% - COOL GRAY / LEXINGTON GRAY | SPLIT FACE SPLIT FACE | EXTERIOR EAST & WEST FACADE |
| | BR-2 | BRICK | KINGSTON BLOCK | ROYAL (2 1/4" X 15 5/8") | 50% - CLINTON GRAY 30% - CLINTON GRAY 20% - CLINTON GRAY | GROUND FACE SPLIT FACE MATTE FACE | 7TH & 8TH FLOOR, INTERIOR COURTYARD, EXTERIOR COMMUNITY SPACE AREA. |

| IMAGE | CODE | MATERIAL | MANUFACTURER | SERIES / MODEL | COLOR | TYPE / SIZE | NOTES / LOCATION |
|-------|------|--------------------|---------------------|----------------|--------------------------------|-------------|-----------------------------------|
| | SC-1 | STUCCO | STO CORP. | - | 37307 MEDIUM TEXTURE | - | EXTERIOR NORTH & SOUTH FACADE. |
| | SC-2 | STUCCO | STO CORP. | - | 37304 MEDIUM TEXTURE | - | EXTERIOR NORTH & SOUTH FACADE. |
| | SC-3 | STUCCO | STO CORP. | - | 37100 MEDIUM TEXTURE | - | EXTERIOR NORTH & SOUTH FACADE. |
| | SC-4 | STUCCO | STO CORP. | - | 35101 MEDIUM TEXTURE | - | EXTERIOR NORTH |
| | SC-5 | STUCCO | STO CORP. | - | 35205 MEDIUM TEXTURE | - | EXTERIOR NORTH |
| | AL-1 | ALUMINUM | KALWALL | - | MATCH GRAPHITE MICA OR SW 7068 | - | KALWALL MULLIONS |
| | EP-1 | EXTERIOR PAINT | SHERWIN WILLIAMS | - | SW 7068 GRIZZLE GREY | GLOSS | EXTERIOR DOORS, FRAMES, AND RAILS |
| | FG-1 | FIBERGLASS | IN-LINE FIBER GLASS | 301/325 SERIES | SLATE | CASEMENT | DOOR/WINDOW SYSTEM. SEE A-320. |
| | KW-1 | PANEL SYSTEM | KALWALL | U-.10 | ICE BLUE | - | KALWALL PANELS |
| | MC-1 | METAL CAP FLASHING | - | - | MATCH EP-1 | - | PARAPET CAP |



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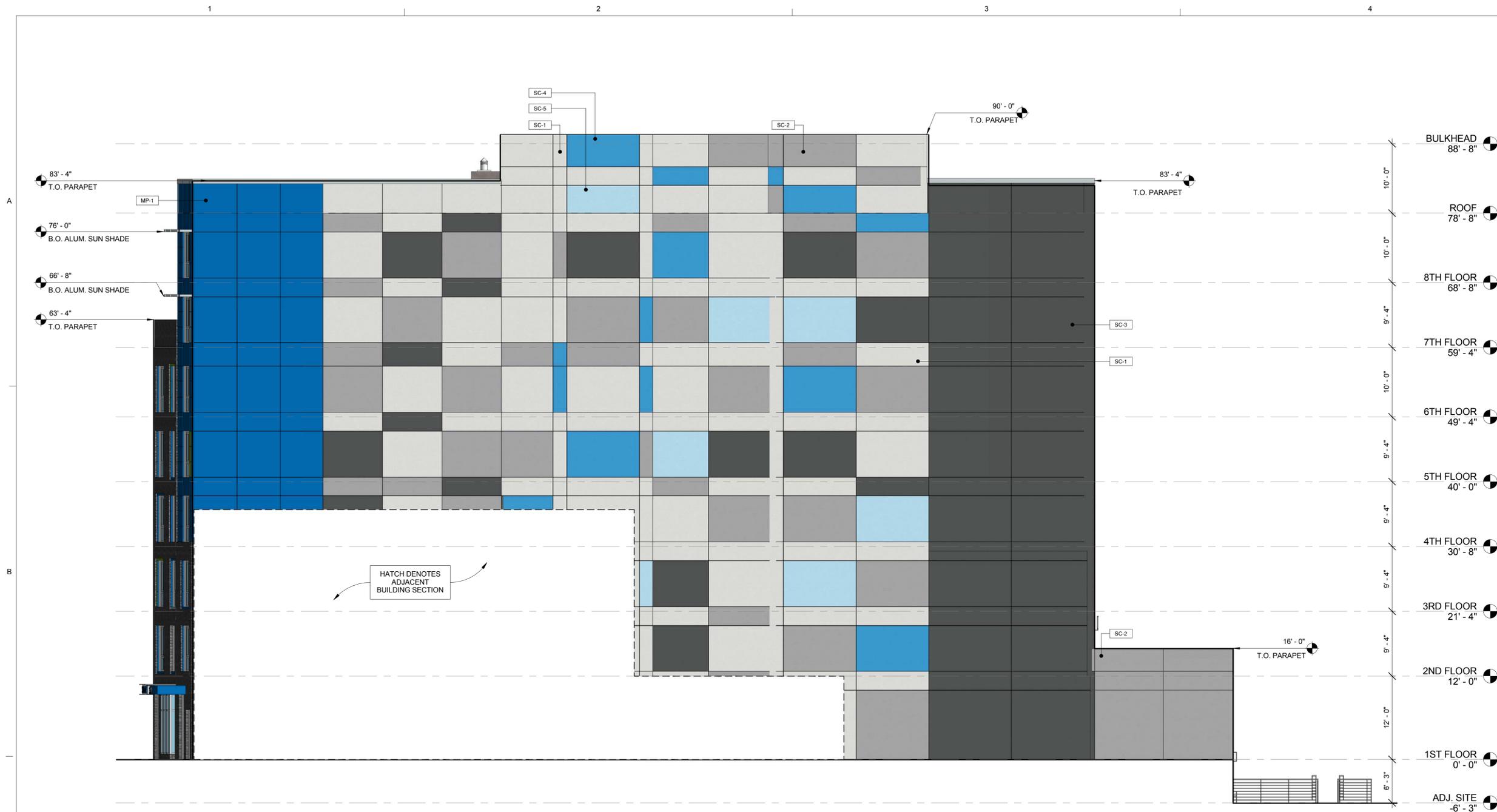
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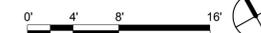


1A EXTERIOR ELEVATION NORTH
A-203 1/8" = 1'-0"

FINISH MATERIAL LEGEND

| IMAGE | CODE | MATERIAL | MANUFACTURER | SERIES / MODEL | COLOR | TYPE / SIZE | NOTES / LOCATION |
|-------|------|---------------|----------------|--------------------------|--|---|---|
| | MP-1 | METAL PANEL A | DRI DESIGN | - | SW 6959 BLUE CHIP | - | EXTERIOR EAST, WEST FACADE & SOUTH KALWALL DESIGN |
| | MP-2 | METAL PANEL B | DRI DESIGN | - | SW 6952 BLUE CLICK | - | EXTERIOR EAST, WEST FACADE & SOUTH KALWALL DESIGN |
| | MP-3 | METAL PANEL C | DRI DESIGN | - | SW 6921 ELECTRIC LIME | - | EXTERIOR EAST, WEST FACADE & SOUTH KALWALL DESIGN |
| | MP-4 | METAL PANEL D | DRI DESIGN | - | SW 7068 GRIZZLE GREY | - | EXTERIOR SOUTH KALWALL DESIGN |
| | BR-1 | BRICK | KINGSTON BLOCK | ROYAL (2 1/4" X 15 5/8") | 80% - PORT EWING BLACK 20% - COOL GRAY / LEXINGTON GRAY | SPLIT FACE SPLIT FACE | EXTERIOR EAST & WEST FACADE |
| | BR-2 | BRICK | KINGSTON BLOCK | ROYAL (2 1/4" X 15 5/8") | 50% - CLINTON GRAY 30% - CLINTON GRAY 20% - CLINTON GRAY | GROUND FACE SPLIT FACE MATTE FACE | 7TH & 8TH FLOOR, INTERIOR COURTYARD, EXTERIOR COMMUNITY SPACE AREA. |

| IMAGE | CODE | MATERIAL | MANUFACTURER | SERIES / MODEL | COLOR | TYPE / SIZE | NOTES / LOCATION |
|-------|------|--------------------|---------------------|----------------|--------------------------------|-------------|-----------------------------------|
| | SC-1 | STUCCO | STO CORP. | - | 37307 MEDIUM TEXTURE | - | EXTERIOR NORTH & SOUTH FACADE. |
| | SC-2 | STUCCO | STO CORP. | - | 37304 MEDIUM TEXTURE | - | EXTERIOR NORTH & SOUTH FACADE. |
| | SC-3 | STUCCO | STO CORP. | - | 37100 MEDIUM TEXTURE | - | EXTERIOR NORTH & SOUTH FACADE. |
| | SC-4 | STUCCO | STO CORP. | - | 35101 MEDIUM TEXTURE | - | EXTERIOR NORTH |
| | SC-5 | STUCCO | STO CORP. | - | 35205 MEDIUM TEXTURE | - | EXTERIOR NORTH |
| | AL-1 | ALUMINUM | KALWALL | - | MATCH GRAPHITE MICA OR SW 7068 | - | KALWALL MULLIONS |
| | EP-1 | EXTERIOR PAINT | SHERWIN WILLIAMS | - | SW 7068 GRIZZLE GREY | GLOSS | EXTERIOR DOORS, FRAMES, AND RAILS |
| | FG-1 | FIBERGLASS | IN-LINE FIBER GLASS | 301/325 SERIES | SLATE | CASEMENT | DOOR/WINDOW SYSTEM. SEE A-320. |
| | KW-1 | PANEL SYSTEM | KALWALL | U-.10 | ICE BLUE | - | KALWALL PANELS |
| | MC-1 | METAL CAP FLASHING | - | - | MATCH EP-1 | - | PARAPET CAP |



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1 E-W BUILDING SECTION
 A-210 1/8" = 1'-0"

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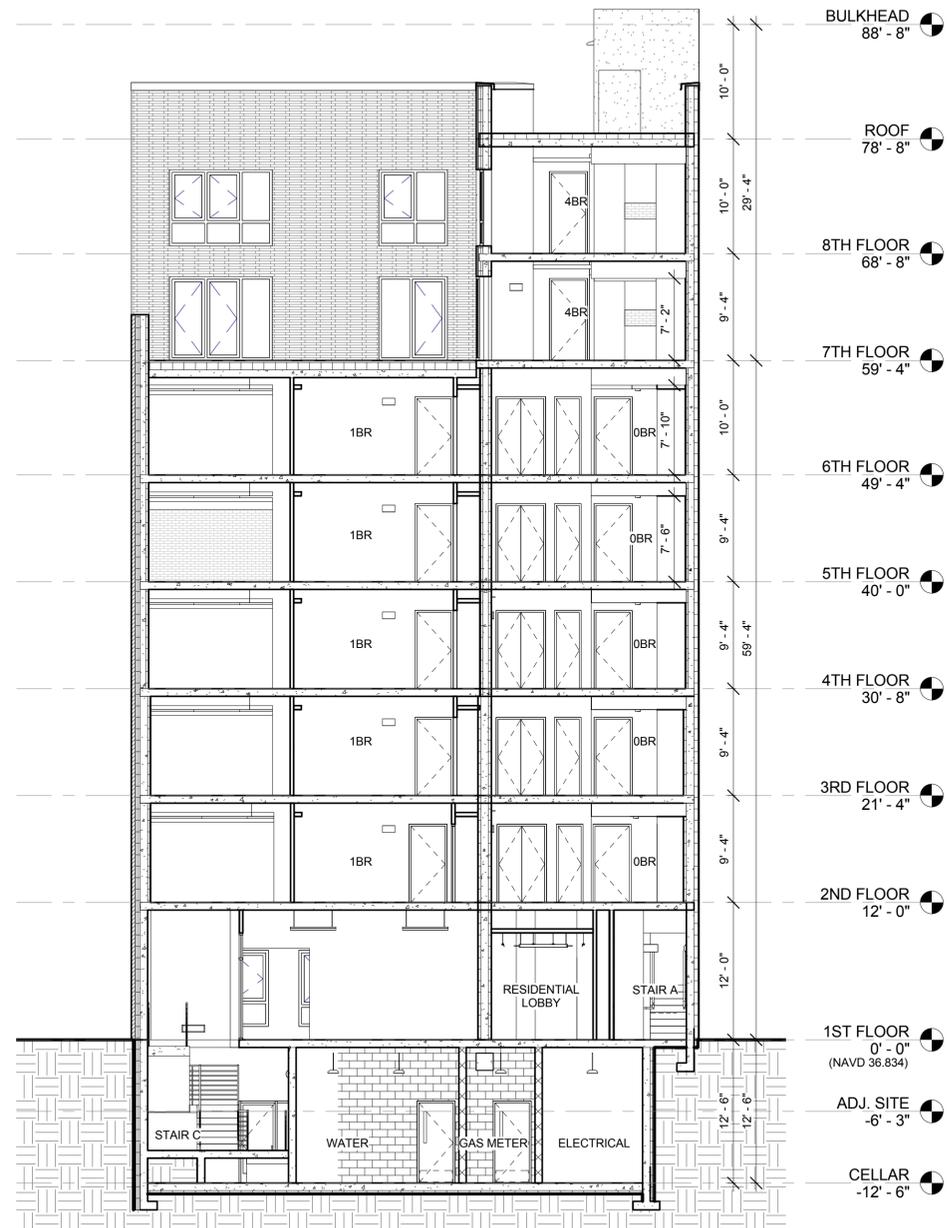
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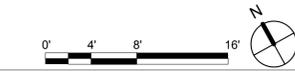
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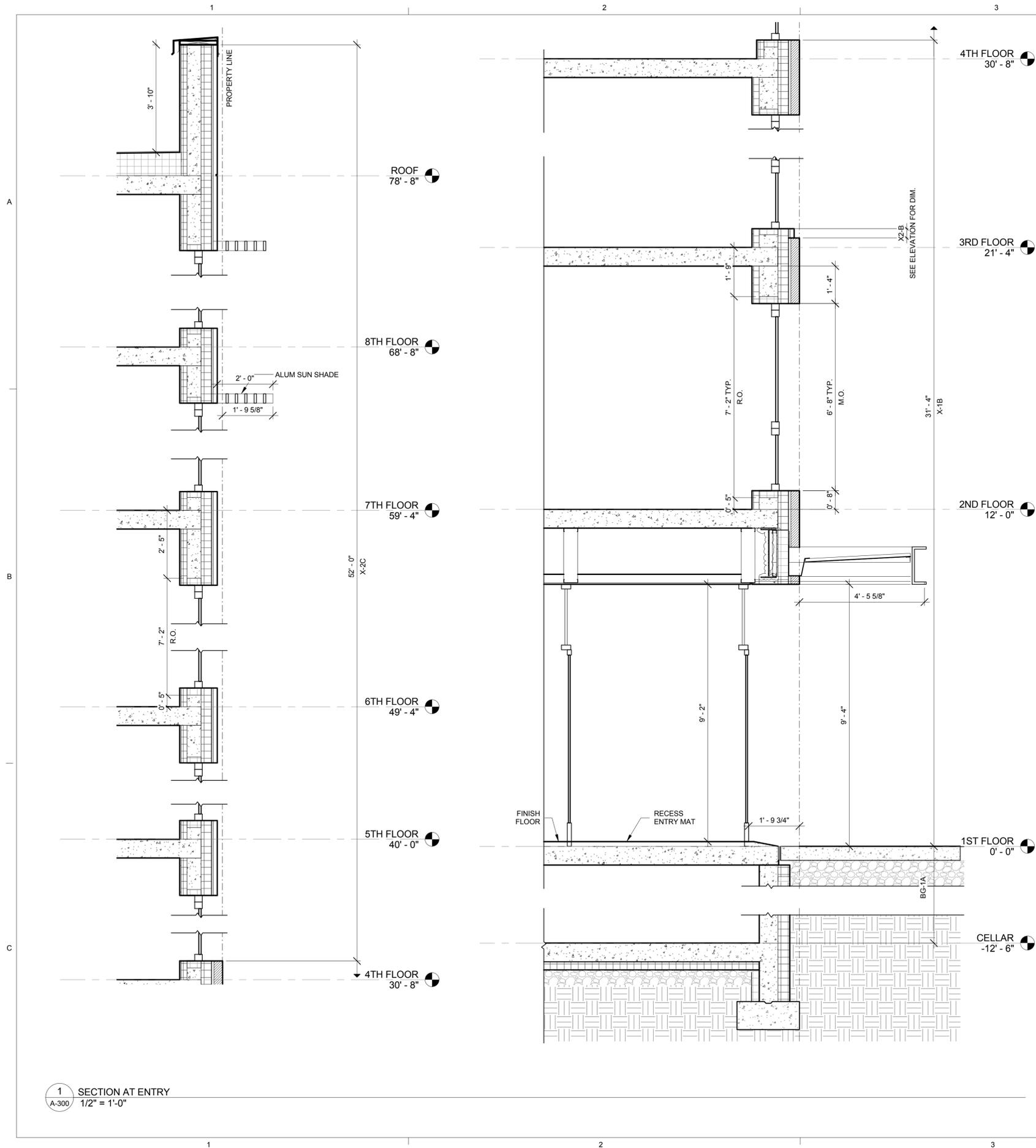


1C N-S SECTION LOBBY
 A-211 1/8" = 1'-0"



3C N-S SECTION AT COMMUNITY ROOM
 A-211 1/8" = 1'-0"





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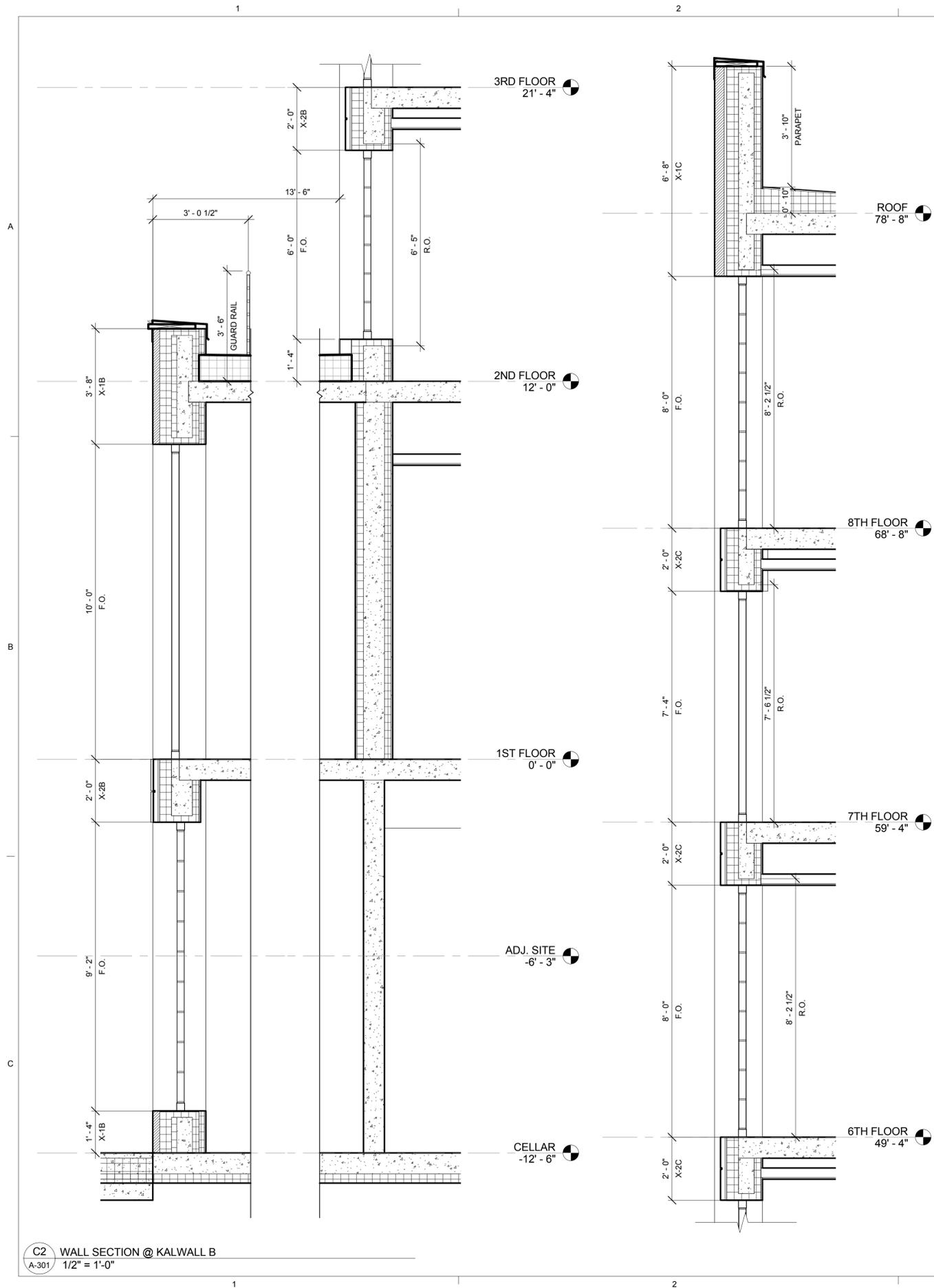
Title:
WALL SECTIONS

10/19/15 DOB SUBMISSION

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Job No.: 1507
Scale: 1/2" = 1'-0"
Drawn By: CW/AG/EG
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Sheet No.:
of **A-300.00**





3365 THIRD AVE

3365 Third Ave Bronx, NY 10456

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 New York, New York 10001

BPP
 SULLIVAN GROUP DESIGN, LLC
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STEVEN WINTERS ASSOCIATES, INC
 307 Seventh Ave, Suite 1701
 New York, NY 10001

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| No. | Date | Submission |
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WALL SECTIONS



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Job No.: 1507

Scale: 1/2" = 1'-0"

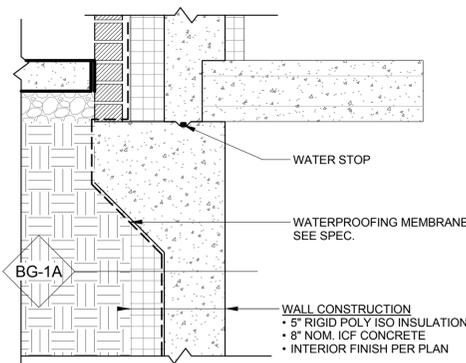
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A-301.00

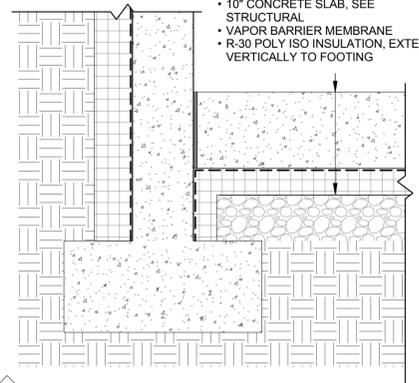
C2 WALL SECTION @ KALWALL B
 A-301 1/2" = 1'-0"



| WALL TYPE | MATERIAL | THICK (IN.) | COMPONENT R-VALUE | CONTINUOUS R-VALUE | CONTINUOUS U-VALUE |
|-----------|------------------------|-------------|-------------------|--------------------|--------------------|
| BG-1A | 5" PLOY ISO INSULATION | 13" | 28 | 28 | .052 |
| | 8" CONCRETE | | 1.64 | | |
| | TOTAL INSULATION | | 29.64 | 28 | .052 |

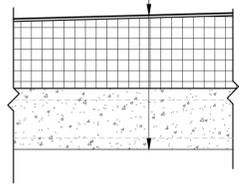
BG-XA BELOW GRADE

SLAB ON GRADE CONSTRUCTION
 • 10" CONCRETE SLAB, SEE STRUCTURAL
 • VAPOR BARRIER MEMBRANE
 • R-30 POLY ISO INSULATION, EXTEND VERTICALLY TO FOOTING

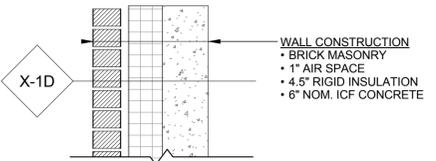


S-1 SLAB ON GRADE

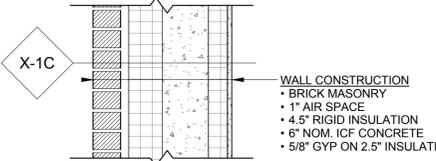
ROOF CONSTRUCTION
 • FULLY ADHERED TPO ROOF MEMBRANE
 • R-40 AVG TAPERED POLY ISO INSULATION, STAGGER SEAMS, 1/8" PER FOOT MAX., MIN. 5.5" RIGID INSULATION = R-30.8
 • PRECAST CONC SLAB, SEE STRUC DWGS



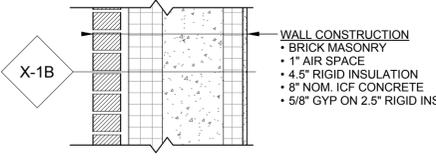
R-1 TYPICAL ROOF CONSTRUCTION



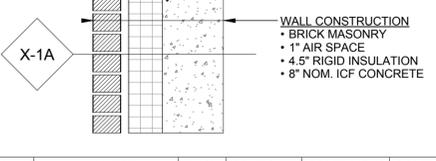
WALL CONSTRUCTION
 • BRICK MASONRY
 • 1" AIR SPACE
 • 4.5" RIGID INSULATION
 • 6" NOM. ICF CONCRETE



WALL CONSTRUCTION
 • BRICK MASONRY
 • 1" AIR SPACE
 • 4.5" RIGID INSULATION
 • 6" NOM. ICF CONCRETE
 • 5/8" GYP ON 2.5" INSULATION



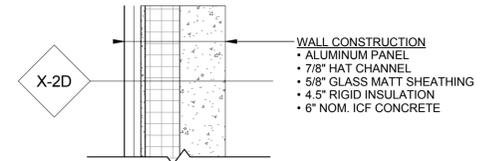
WALL CONSTRUCTION
 • BRICK MASONRY
 • 1" AIR SPACE
 • 4.5" RIGID INSULATION
 • 8" NOM. ICF CONCRETE
 • 5/8" GYP ON 2.5" RIGID INSULATION



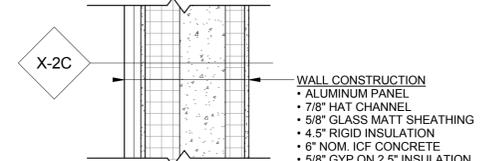
WALL CONSTRUCTION
 • BRICK MASONRY
 • 1" AIR SPACE
 • 4.5" RIGID INSULATION
 • 8" NOM. ICF CONCRETE

| WALL TYPE | MATERIAL | THICK (IN.) | COMPONENT R-VALUE | CONTINUOUS R-VALUE | CONTINUOUS U-VALUE |
|------------------|-----------------------|-------------|-------------------|--------------------|--------------------|
| X-1D | ICF 4 1/2" INSULATION | 10.5" | 19.25 | 19.25 | .052 |
| | 6" CONCRETE | | 1.64 | | |
| | TOTAL INSULATION | | 20.89 | 19.25 | .052 |
| X-1C | ICF 4 1/2" INSULATION | 13" | 19.25 | 19.25 | .052 |
| | 6" CONCRETE | | 1.64 | | |
| | ICF 2 1/2" INSULATION | | 10.76 | | |
| TOTAL INSULATION | 31.65 | 19.25 | .052 | | |
| X-1B | ICF 4 1/2" INSULATION | 15" | 19.25 | 19.25 | .052 |
| | 8" CONCRETE | | 1.64 | | |
| | ICF 2 1/2" INSULATION | | 10.76 | | |
| TOTAL INSULATION | 31.65 | 19.25 | .052 | | |
| X-1A | ICF 4 1/2" INSULATION | 12.5" | 19.25 | 19.25 | .052 |
| | 8" CONCRETE | | 1.64 | | |
| | TOTAL INSULATION | | 20.89 | 19.25 | .052 |

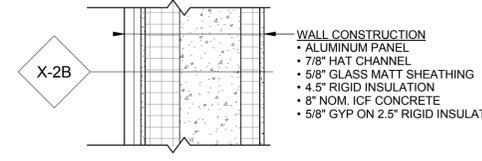
X1 BRICK WITH ICF BACKUP



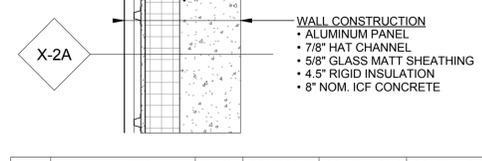
WALL CONSTRUCTION
 • ALUMINUM PANEL
 • 7/8" HAT CHANNEL
 • 5/8" GLASS MATT SHEATHING
 • 4.5" RIGID INSULATION
 • 6" NOM. ICF CONCRETE



WALL CONSTRUCTION
 • ALUMINUM PANEL
 • 7/8" HAT CHANNEL
 • 5/8" GLASS MATT SHEATHING
 • 4.5" RIGID INSULATION
 • 6" NOM. ICF CONCRETE
 • 5/8" GYP ON 2.5" INSULATION



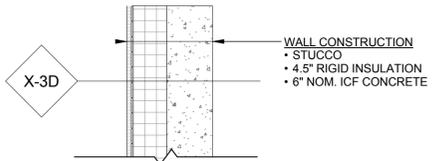
WALL CONSTRUCTION
 • ALUMINUM PANEL
 • 7/8" HAT CHANNEL
 • 5/8" GLASS MATT SHEATHING
 • 4.5" RIGID INSULATION
 • 8" NOM. ICF CONCRETE
 • 5/8" GYP ON 2.5" RIGID INSULATION



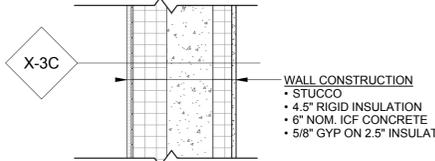
WALL CONSTRUCTION
 • ALUMINUM PANEL
 • 7/8" HAT CHANNEL
 • 5/8" GLASS MATT SHEATHING
 • 4.5" RIGID INSULATION
 • 8" NOM. ICF CONCRETE

| WALL TYPE | MATERIAL | THICK (IN.) | COMPONENT R-VALUE | CONTINUOUS R-VALUE | CONTINUOUS U-VALUE |
|------------------|-----------------------|-------------|-------------------|--------------------|--------------------|
| X-2D | ICF 4 1/2" INSULATION | 10.5" | 19.25 | 19.25 | .052 |
| | 6" CONCRETE | | 1.64 | | |
| | TOTAL INSULATION | | 20.89 | 19.25 | .052 |
| X-2C | ICF 4 1/2" INSULATION | 13" | 19.25 | 19.25 | .052 |
| | 6" CONCRETE | | 1.64 | | |
| | ICF 2 1/2" INSULATION | | 10.76 | | |
| TOTAL INSULATION | 31.65 | 19.25 | .052 | | |
| X-2B | ICF 4 1/2" INSULATION | 15" | 19.25 | 19.25 | .052 |
| | 8" CONCRETE | | 1.64 | | |
| | ICF 2 1/2" INSULATION | | 10.76 | | |
| TOTAL INSULATION | 31.65 | 19.25 | .052 | | |
| X-2A | ICF 4 1/2" INSULATION | 12.5" | 19.25 | 19.25 | .052 |
| | 8" CONCRETE | | 1.64 | | |
| | TOTAL INSULATION | | 20.89 | 19.25 | .052 |

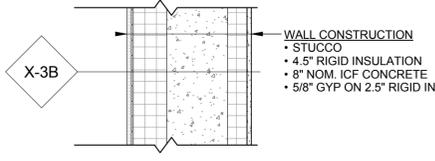
X2 METAL PANEL WITH ICF BACKUP



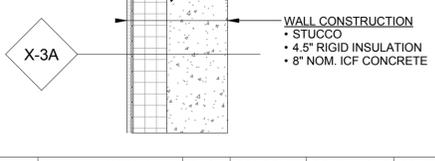
WALL CONSTRUCTION
 • STUCCO
 • 4.5" RIGID INSULATION
 • 6" NOM. ICF CONCRETE



WALL CONSTRUCTION
 • STUCCO
 • 4.5" RIGID INSULATION
 • 6" NOM. ICF CONCRETE
 • 5/8" GYP ON 2.5" INSULATION



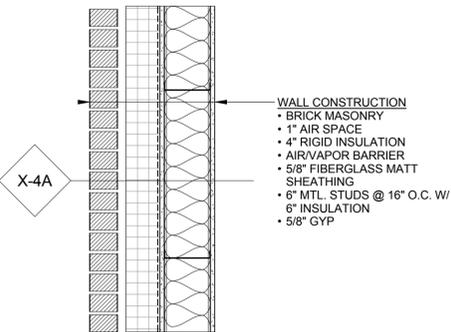
WALL CONSTRUCTION
 • STUCCO
 • 4.5" RIGID INSULATION
 • 8" NOM. ICF CONCRETE
 • 5/8" GYP ON 2.5" RIGID INSULATION



WALL CONSTRUCTION
 • STUCCO
 • 4.5" RIGID INSULATION
 • 8" NOM. ICF CONCRETE

| WALL TYPE | MATERIAL | THICK (IN.) | COMPONENT R-VALUE | CONTINUOUS R-VALUE | CONTINUOUS U-VALUE |
|------------------|-----------------------|-------------|-------------------|--------------------|--------------------|
| X-3D | ICF 4 1/2" INSULATION | 10.5" | 19.25 | 19.25 | .052 |
| | 6" CONCRETE | | 1.64 | | |
| | TOTAL INSULATION | | 20.89 | 19.25 | .052 |
| X-3C | ICF 4 1/2" INSULATION | 13" | 19.25 | 19.25 | .052 |
| | 6" CONCRETE | | 1.64 | | |
| | ICF 2 1/2" INSULATION | | 10.76 | | |
| TOTAL INSULATION | 31.65 | 19.25 | .052 | | |
| X-3B | ICF 4 1/2" INSULATION | 15" | 19.25 | 19.25 | .052 |
| | 8" CONCRETE | | 1.64 | | |
| | ICF 2 1/2" INSULATION | | 10.76 | | |
| TOTAL INSULATION | 31.65 | 19.25 | .052 | | |
| X-3A | ICF 4 1/2" INSULATION | 12.5" | 19.25 | 19.25 | .052 |
| | 8" CONCRETE | | 1.64 | | |
| | TOTAL INSULATION | | 20.89 | 19.25 | .052 |

X3 STUCCO WITH ICF BACKUP



WALL CONSTRUCTION
 • BRICK MASONRY
 • 1" AIR SPACE
 • 4" RIGID INSULATION
 • AIR VAPOR BARRIER
 • 5/8" FIBERGLASS MATT SHEATHING
 • 6" MTL. STUDS @ 16" O.C. W/
 6" INSULATION
 • 5/8" GYP

| WALL TYPE | MATERIAL | THICK (IN.) | COMPONENT R-VALUE | CONTINUOUS R-VALUE | CONTINUOUS U-VALUE |
|-----------|---------------------|-------------|-------------------|--------------------|--------------------|
| X-3D | 4" RIGID INSULATION | 10" | 19.25 | 19.25 | .052 |
| | 6" BATT INSULATION | | 1.64 | | |
| | TOTAL INSULATION | | 20.89 | 19.25 | .052 |

X4 STUCCO WITH ICF BACKUP

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3365 Third Ave Bronx, NY 10456

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KEY PLAN

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EXTERIOR WALL TYPES

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 of **A-305.00**

- GENERAL NOTES:**
- ALL OPERABLE WINDOWS TO BE IN LINE FIBERGLASS 325 SERIES OPEN CASEMENT.
 - SCREENS TO BE PROVIDED ON EXTERIOR FACE OF WINDOWS.
 - INTEGRAL LIMITS TOPS TO BE PROVIDED AT AWNING AND HOPPER WINDOW (3.75" MAX. OPENING.)
 - REFER TO ELEVATION SHEETS A200-A203 FOR SPECIFIC LOCATION OF WINDOWS THAT ARE OPERABLE.
 - 2014 EEC C402.4.3 AIR LEAKAGE OF WINDOW/DOOR ASSEMBLIES SHALL BE DETERMINED IN ACCORDANCE WITH AAMA/WDMA/CSA 101/IS, 2/A440 OR NFRC 400 BY AN ACCREDITED, INDEPENDENT TESTING LABORATORY AND LABELED BY MANUFACTURER AND SHALL NOT EXCEED 0.2 CFM PER SF.
 - 2014 EEC C402.4.3 CURTAIN WALL AND COMMERCIAL-GLAZED SWINGING ENTRANCE DOORS SHALL BE TESTED FOR AIR LEAKAGE WITH NFRC 400 OR ASTM 283 AT 1.57 PSF FOR CURTAIN WALLS. THE MAX AIR LEAKAGE RATE SHALL BE 0.06 CMF/SF OF FENESTRATION AREA. FOR COMMERCIAL-GLAZED SWINGING ENTRANCE DOORS THE MAX AIR LEAKAGE RATE SHALL BE 1.00 CFM/SF OF DOOR AREA.
 - PER ZR 28-22, ALL RESIDENTIAL WINDOWS WILL BE AT A MIN DOUBLE GLAZED.
 - EXTERIOR COLOR OF FRAMES TO BE SLATE.

WINDOW SCHEDULE

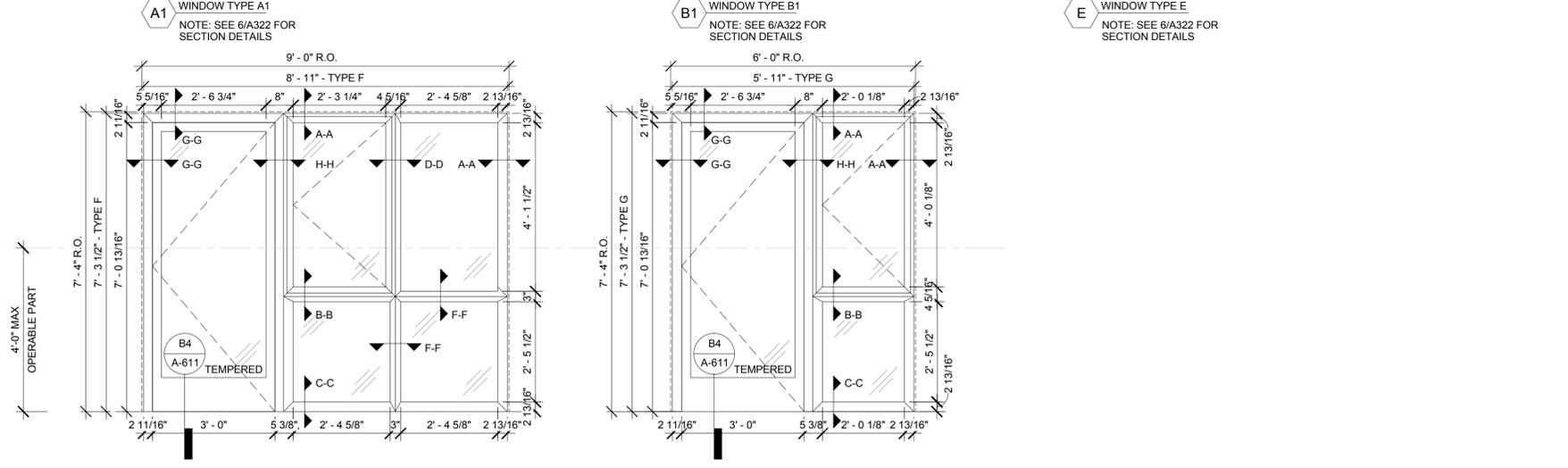
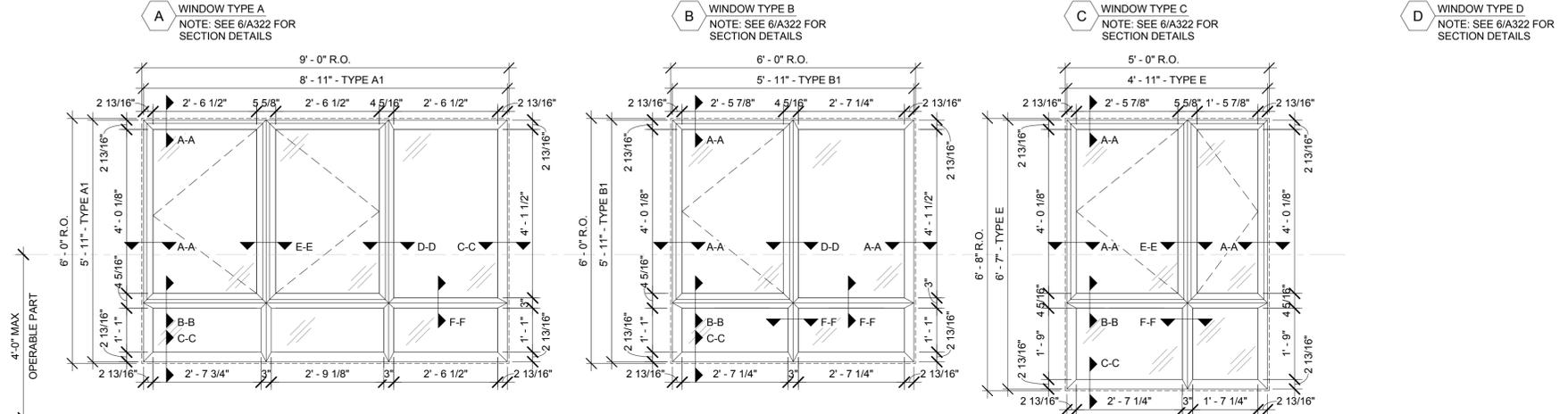
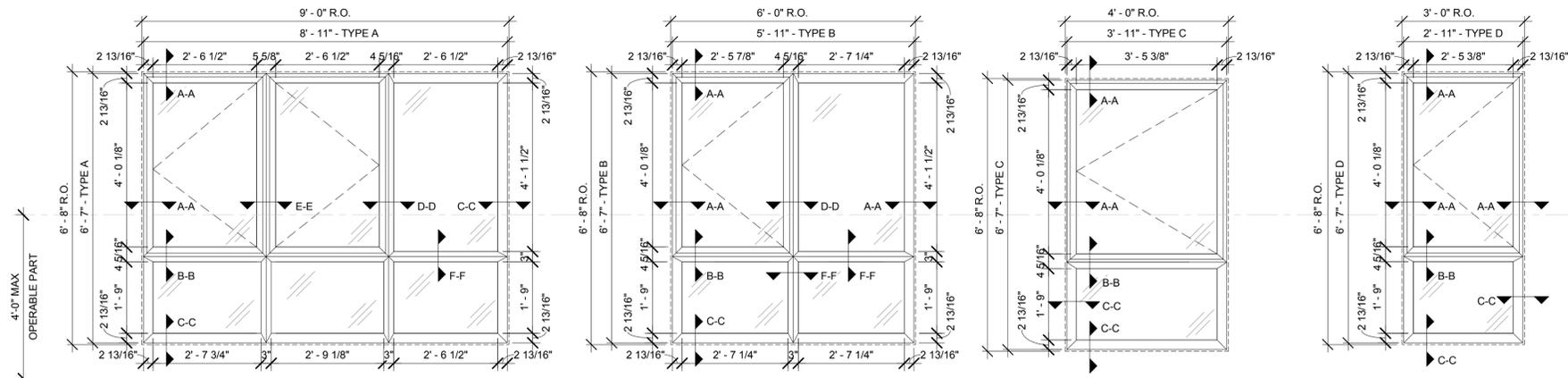
| Type | Rough Width | Rough Height | Sill Height | Provided Light | Provided Air |
|------|-------------|--------------|-------------|----------------|--------------|
| A | 9' - 0" | 6' - 8" | 0' - 8" | 29 SF | 24 SF |
| A1 | 9' - 0" | 6' - 0" | 1' - 6" | 24 SF | 20 SF |
| B | 6' - 0" | 6' - 8" | 0' - 6" | 20 SF | 12 SF |
| B1 | 6' - 0" | 6' - 0" | 1' - 6" | 17 SF | 10 SF |
| C | 4' - 0" | 6' - 8" | 0' - 8" | 12 SF | 16 SF |
| D | 3' - 0" | 6' - 8" | 0' - 8" | 8 SF | 11 SF |
| E | 5' - 0" | 6' - 8" | 0' - 8" | 16 SF | 12 SF |
| F | 9' - 0" | 7' - 4" | 0' - 0" | 34 SF | 28 SF |
| G | 6' - 0" | 7' - 4" | 0' - 0" | 31 SF | 19 SF |

WINDOW SCHEDULE NOTES:

- REFER TO ELEVATIONS FOR LOCATION OF WINDOWS.
- WINDOWS HAVE MIN. OITC VALUE OF 30.
- U-VALUE = 0.26 FRAME, 0.35 WINDOW MAX
- SHGC = 0.43 MAX

LIGHT AND AIR CALCULATION (IN CONFORMANCE WITH BC 1203 & 1205)

| ROOM | ROOM AREA | REQUIRED AIR | PROVIDED AIR | REQUIRED LIGHT | PROVIDED LIGHT |
|----------------------------------|-----------|--------------|--------------|----------------|----------------|
| APARTMENT A - TYP. | | | | | |
| BR 1 | 158 SF | 8 SF | 12 SF | 16 SF | 20 SF |
| BR 2 | 116 SF | 6 SF | 12 SF | 12 SF | 20 SF |
| BR 3 | 117 SF | 6 SF | 12 SF | 12 SF | 20 SF |
| LR/DAK | 271 SF | 14 SF | 24 SF | 27 SF | 29 SF |
| APARTMENT B - 2ND FLOOR | | | | | |
| BR 1 | 134 SF | 7 SF | 12 SF | 13 SF | 16 SF |
| BR 2 | 111 SF | 6 SF | 12 SF | 11 SF | 20 SF |
| LR/DAK | 280 SF | 19 SF | 20 SF | 28 SF | 24 SF |
| APARTMENT B - TYP. | | | | | |
| BR 1 | 135 SF | 7 SF | 12 SF | 14 SF | 20 SF |
| BR 2 | 111 SF | 6 SF | 12 SF | 11 SF | 20 SF |
| LR/DAK | 211 SF | 12 SF | 24 SF | 21 SF | 29 SF |
| APARTMENT C - 2ND FLOOR | | | | | |
| BR 1 | 135 SF | 7 SF | 10 SF | 14 SF | 17 SF |
| LR/DAK | 349 SF | 18 SF | 36 SF | 35 SF | 49 SF |
| APARTMENT C - 7TH FLOOR | | | | | |
| BR 1 | 149 SF | 8 SF | 28 SF | 15 SF | 34 SF |
| BR 2 | 139 SF | 7 SF | 24 SF | 14 SF | 29 SF |
| BR 3 | 139 SF | 7 SF | 12 SF | 14 SF | 20 SF |
| BR 4 | 113 SF | 6 SF | 19 SF | 11 SF | 31 SF |
| LR/DAK | 375 SF | 19 SF | 63 SF | 38 SF | 52 SF |
| APARTMENT C - 8TH FLOOR | | | | | |
| 1 BR | 145 SF | 8 SF | 24 SF | 15 SF | 29 SF |
| 2 BR | 139 SF | 7 SF | 24 SF | 14 SF | 29 SF |
| 3 BR | 139 SF | 7 SF | 12 SF | 14 SF | 20 SF |
| 4 BR | 120 SF | 6 SF | 12 SF | 12 SF | 20 SF |
| LR/DAK | 373 SF | 19 SF | 49 SF | 37 SF | 58 SF |
| APARTMENT C - TYP. | | | | | |
| BR 1 | 132 SF | 7 SF | 12 SF | 13 SF | 20 SF |
| BR 2 | 110 SF | 6 SF | 12 SF | 11 SF | 20 SF |
| LR/DAK | 300 SF | 15 SF | 24 SF | 30 SF | 29 SF |
| APARTMENT D - 2-4TH FLOOR | | | | | |
| LR/DAK | 254 SF | 13 SF | 24 SF | 25 SF | 29 SF |
| APARTMENT D - TYP. | | | | | |
| LR/DAK | 258 SF | 13 SF | 24 SF | 26 SF | 29 SF |
| APARTMENT E - 2-4TH FLOOR | | | | | |
| BR 1 | 141 SF | 7 SF | 12 SF | 14 SF | 20 SF |
| LR/DAK | 274 SF | 14 SF | 24 SF | 27 SF | 29 SF |
| APARTMENT E - TYP. | | | | | |
| BR 1 | 145 SF | 8 SF | 12 SF | 15 SF | 20 SF |
| LR/DAK | 278 SF | 14 SF | 24 SF | 28 SF | 29 SF |



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Title:

WINDOW SCHEDULE/ELEV./DTLS.

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 Job No.: 1507
 Scale: 1/2" = 1'-0"
 Drawn By: CNW/IG
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Sheet No.: **A-320.00**

of



A-320.00

1

2

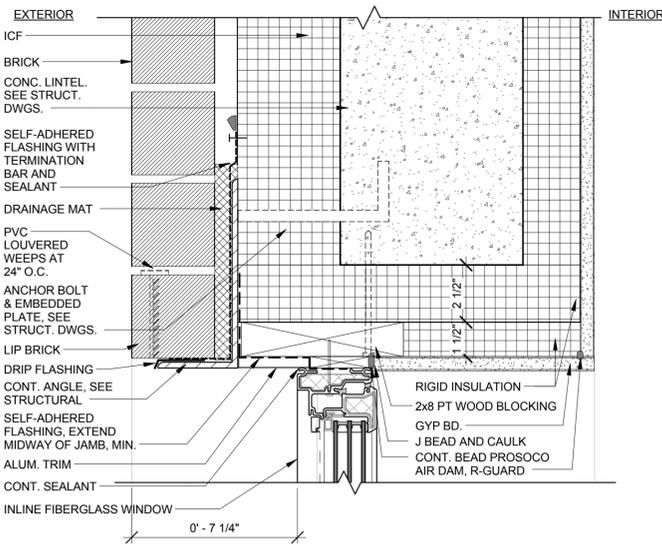
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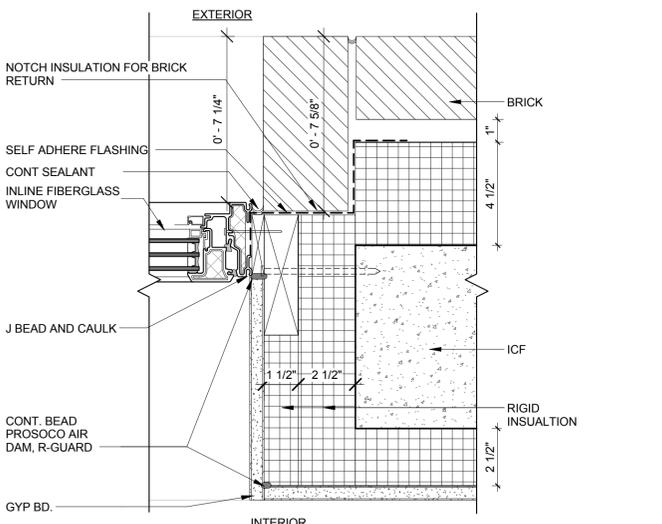
A

B

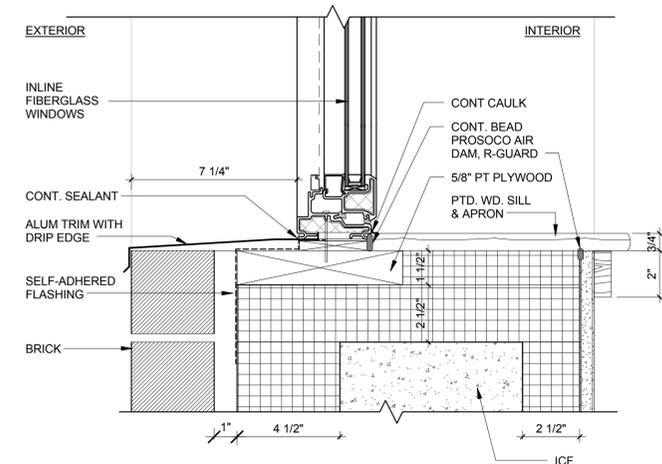
C



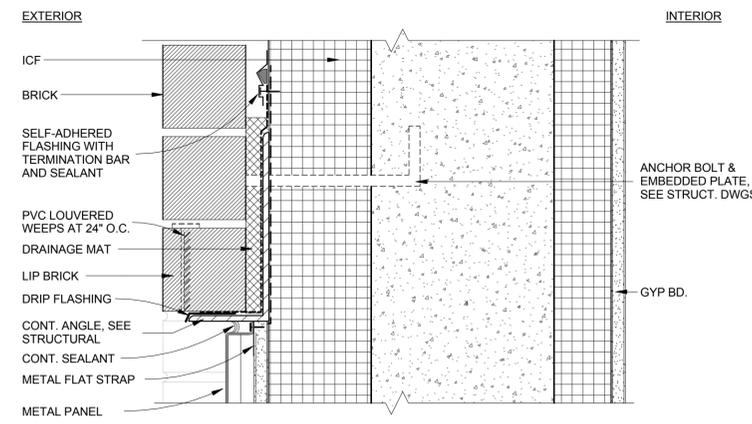
A2 WINDOW HEAD @ BRICK
A-321 3" = 1'-0"



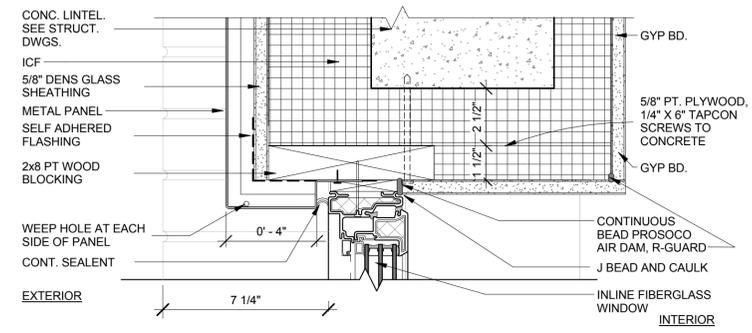
B2 WINDOW JAMB @ BRICK
A-321 3" = 1'-0"



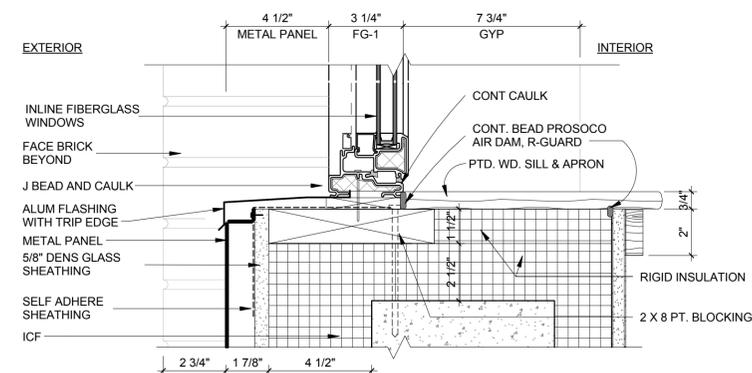
C2 WINDOW SILL @ BRICK
A-321 3" = 1'-0"



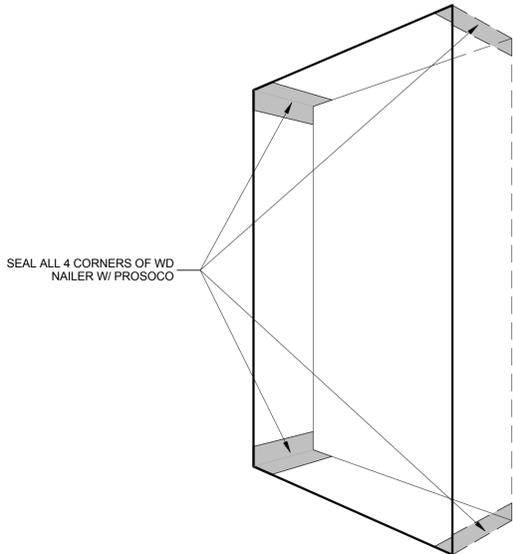
B3 HEAD DETAIL AT METAL PANEL & BRICK
A-321 3" = 1'-0"



B3 HEAD DETAIL AT METAL PANEL & BRICK
A-321 3" = 1'-0"



C3 SILL DETAIL AT METAL PANEL & BRICK
A-321 3" = 1'-0"



C1 WINDOW/DOOR OPENINGS
A-321 3" = 1'-0"

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3365 Third Ave Bronx, NY 10456

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|-----|------|------------|
| | | |

10/19/15 DOB SUBMISSION
Title:
WINDOW DETAILS



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Job No.: 1507

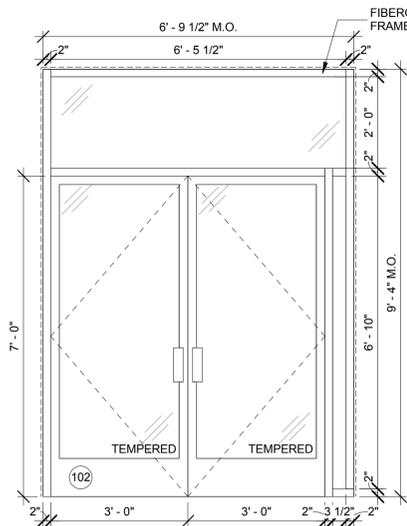
Scale: 3" = 1'-0"

Drawn By: Author

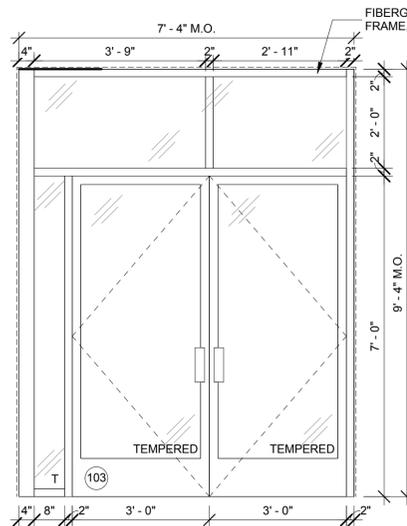
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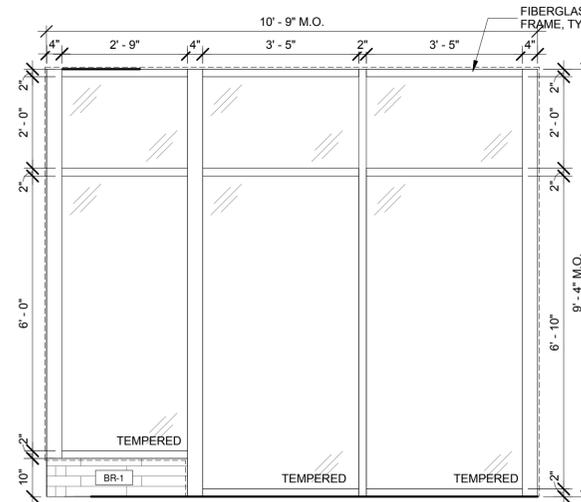
A-321.00



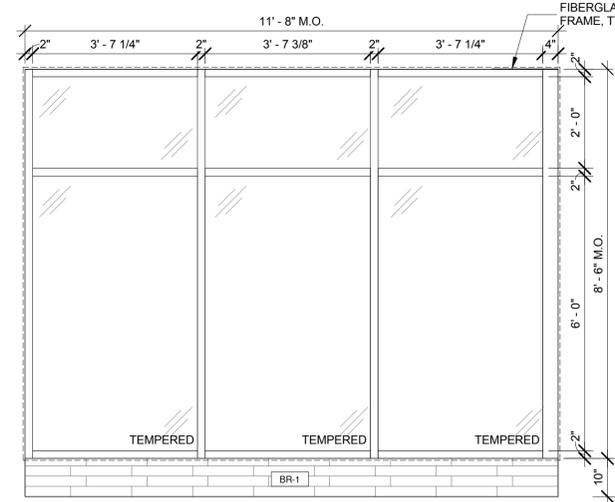
1 FE-1 - STOREFRONT
A-322 1/2" = 1'-0"



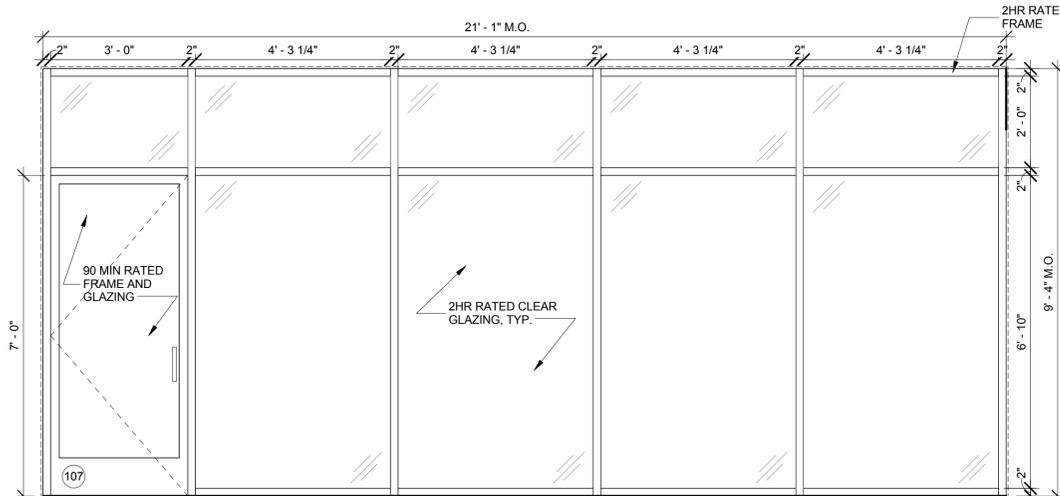
2 FE-2 - STOREFRONT
A-322 1/2" = 1'-0"



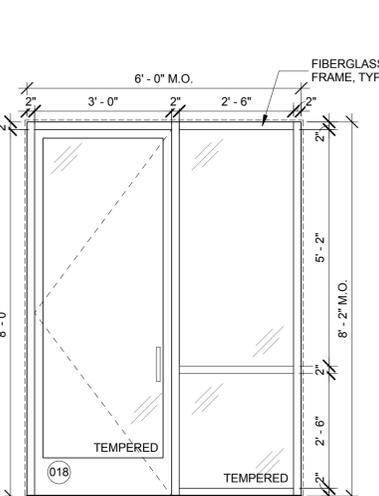
3 FE-3 - STOREFRONT
A-322 1/2" = 1'-0"



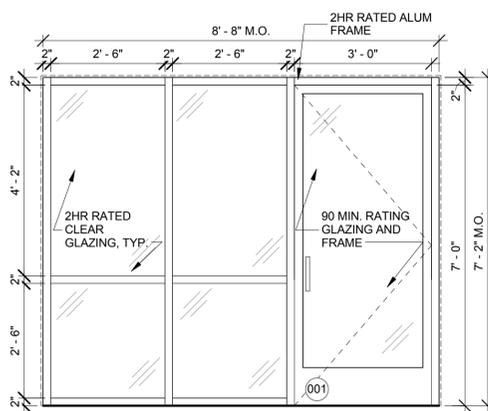
4 FE-4 - STOREFRONT
A-322 1/2" = 1'-0"



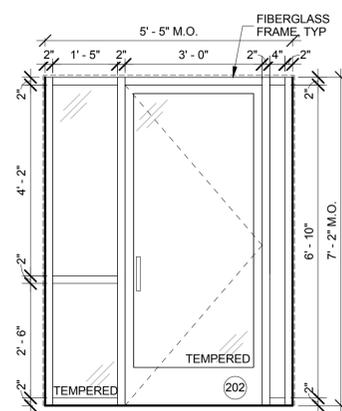
5 FE-5 - STOREFRONT
A-322 1/2" = 1'-0"



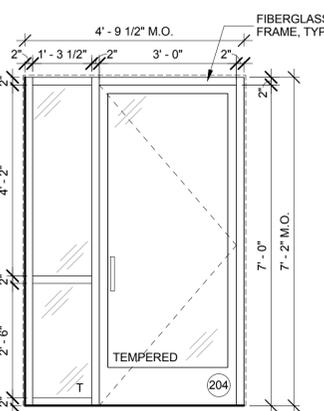
6 FE-6 - STOREFRONT
A-322 1/2" = 1'-0"



7 FE-7 - STOREFRONT
A-322 1/2" = 1'-0"



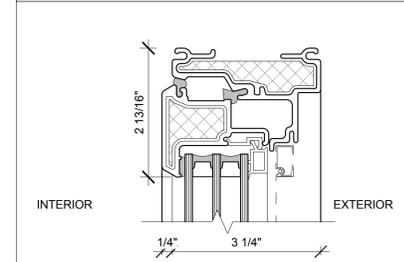
8 FE-8 - STOREFRONT
A-322 1/2" = 1'-0"



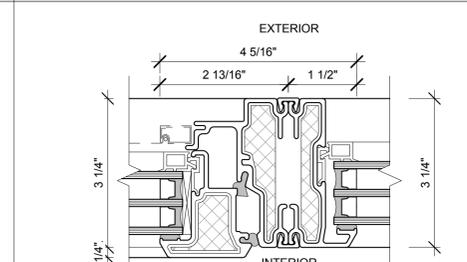
9 FE-9 - STOREFRONT
A-322 1/2" = 1'-0"

INLINE FIBERGLASS WINDOW DETAILS. SCALE: 6" = 1'-0"

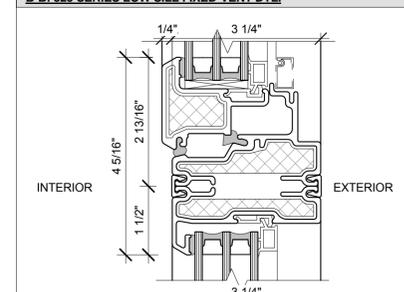
A-A: 325 SERIES VENT HEAD DETAIL



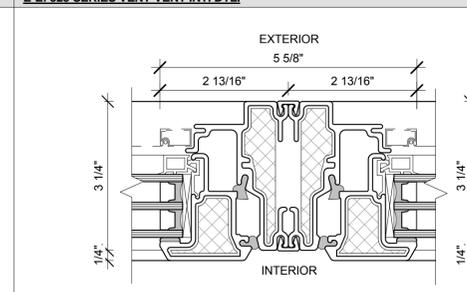
D-D: 325 SERIES LOW JAMB FIXED-VENT DTL.



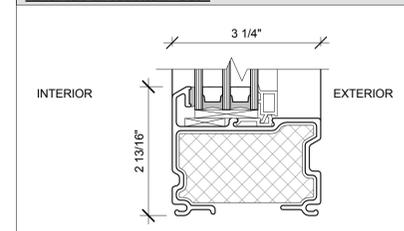
B-B: 325 SERIES LOW SILL FIXED-VENT DTL.



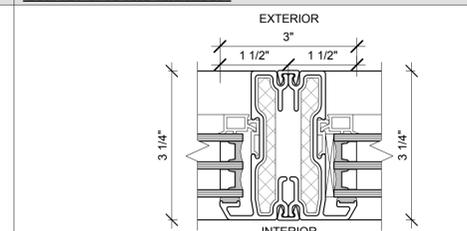
E-E: 325 SERIES VENT-VENT INT. DTL.



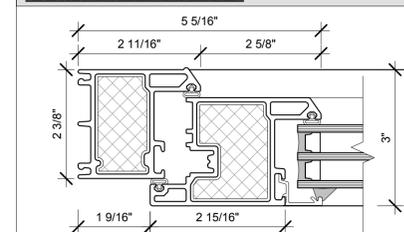
C-C: 325 SERIES HIGH SILL DTL.



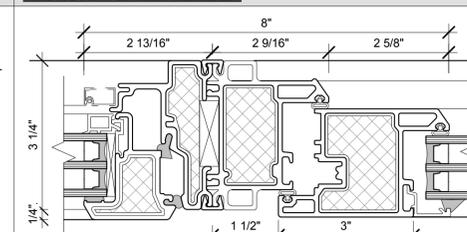
F-F: 325 SERIES LOW-LOW INT. DTL.



G-G: 301 SERIES FIX HEAD/JAMB DTL.



H-H: 325 SERIES VENT-VENT INT. DTL.



- STOREFRONT NOTES:**
- REFER TO ELEVATIONS FOR LOCATION
 - FIXED OPENINGS: U-VALUE = 0.38 MAX
 - ENTRANCES: U-VALUE = .77 MAX
 - SHGC = 0.40 MAX
 - FRAME FINISH TO MATCH ALUCOBOND PANELS

3365 THIRD AVE

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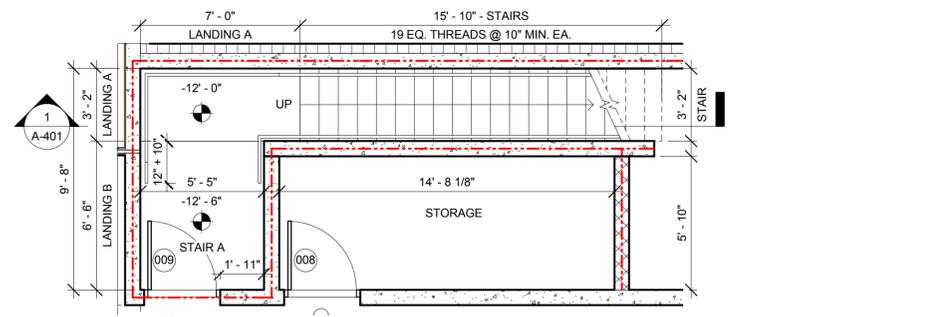
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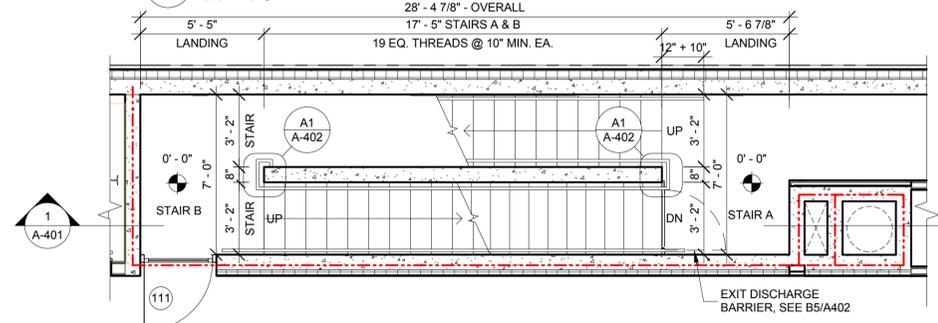
Title:
STOREFRONTS

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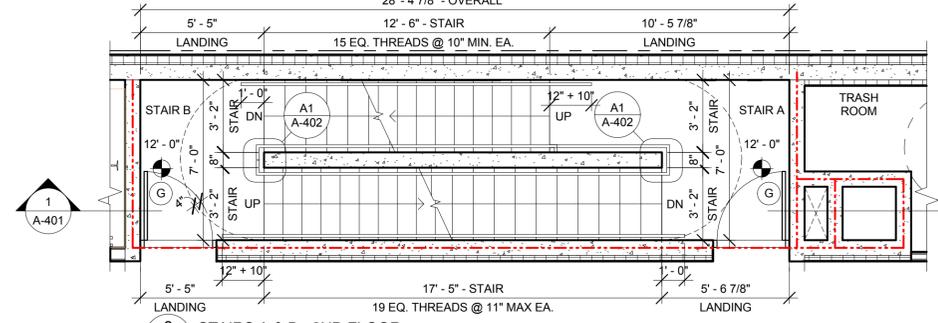
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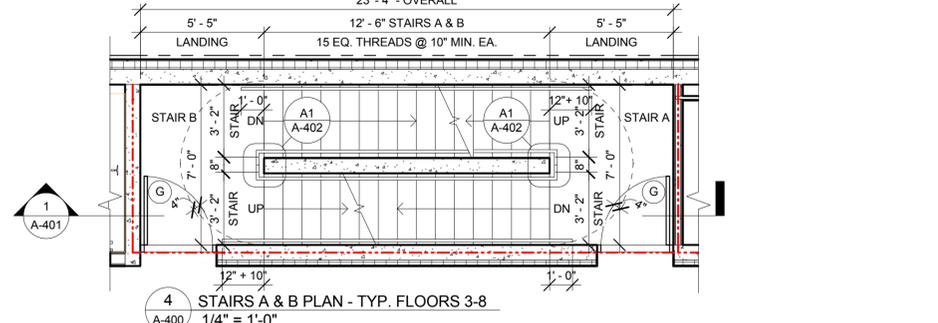
1 STAIR A - CELLAR
A-400
1/4" = 1'-0"



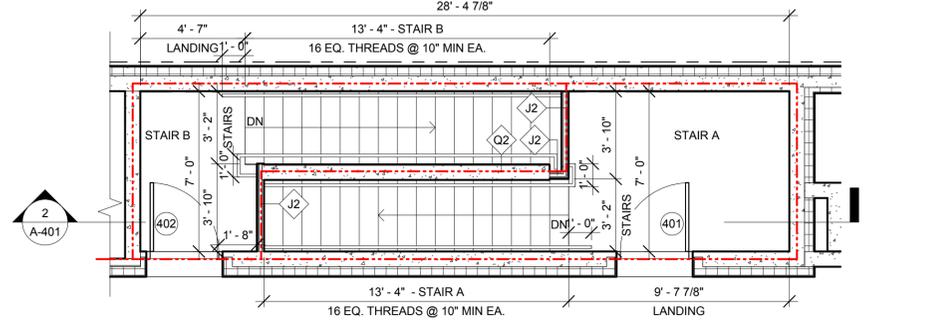
2 STAIR A & B - 1ST FLOOR
A-400
1/4" = 1'-0"



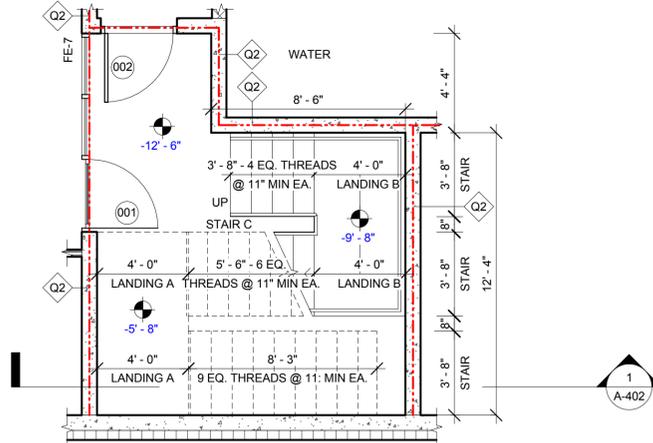
3 STAIRS A & B - 2ND FLOOR
A-400
1/4" = 1'-0"



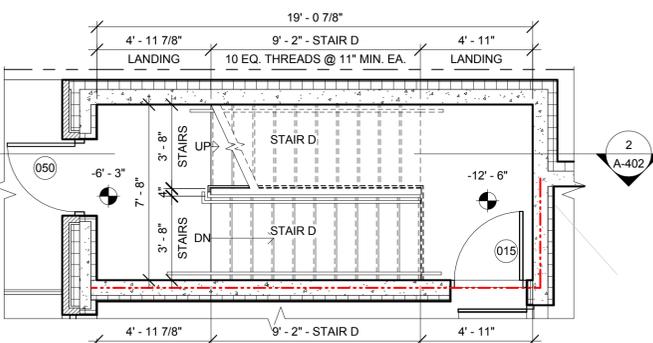
4 STAIRS A & B PLAN - TYP. FLOORS 3-8
A-400
1/4" = 1'-0"



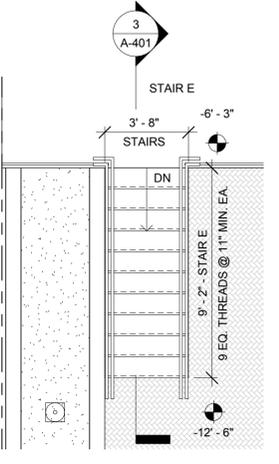
5 STAIRS A & B PLAN - ROOF
A-400
1/4" = 1'-0"



6 STAIR C - PLAN
A-400
1/4" = 1'-0"



7 STAIR D - PLAN
A-400
1/4" = 1'-0"



8 STAIR E - PLAN
A-400
1/4" = 1'-0"

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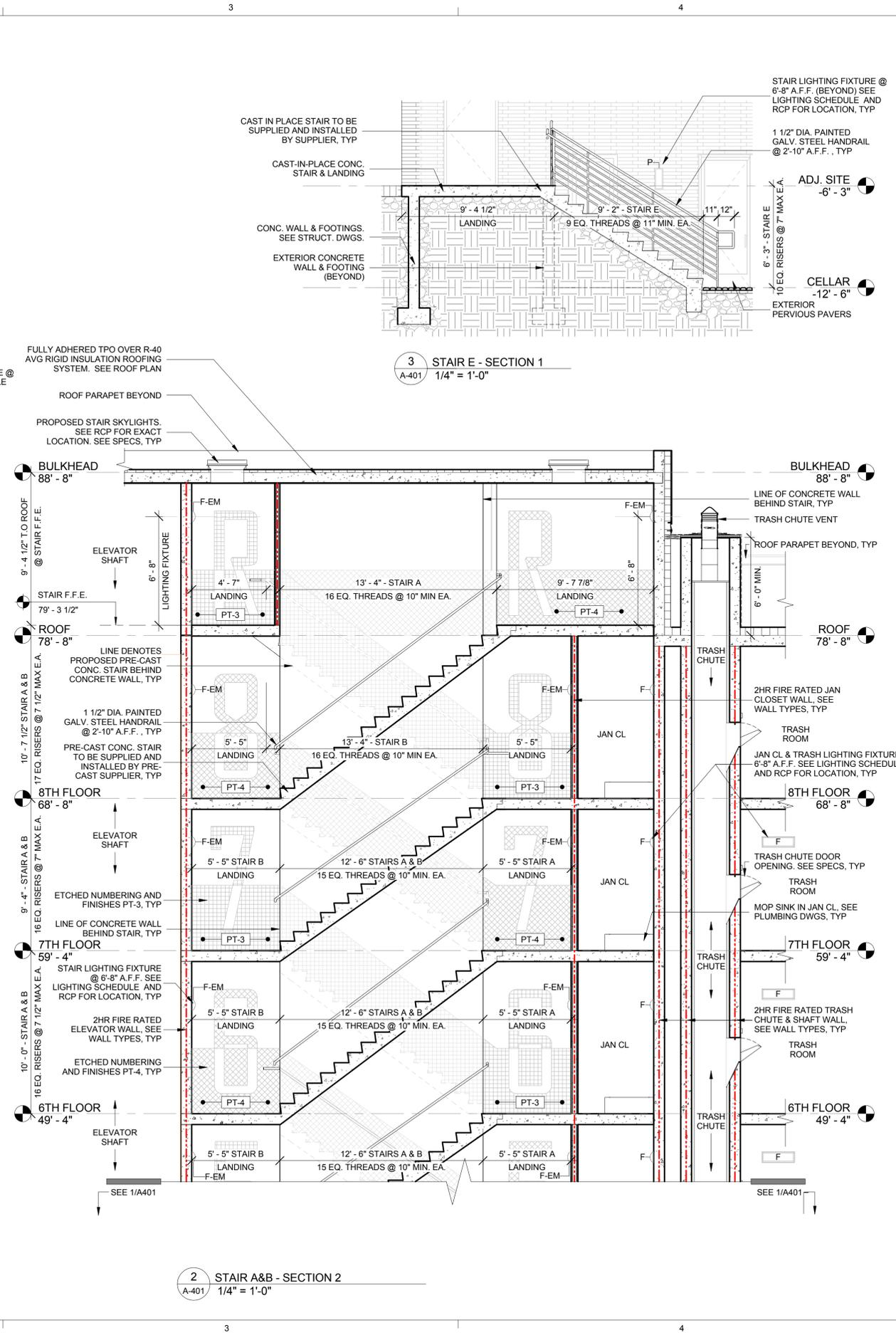
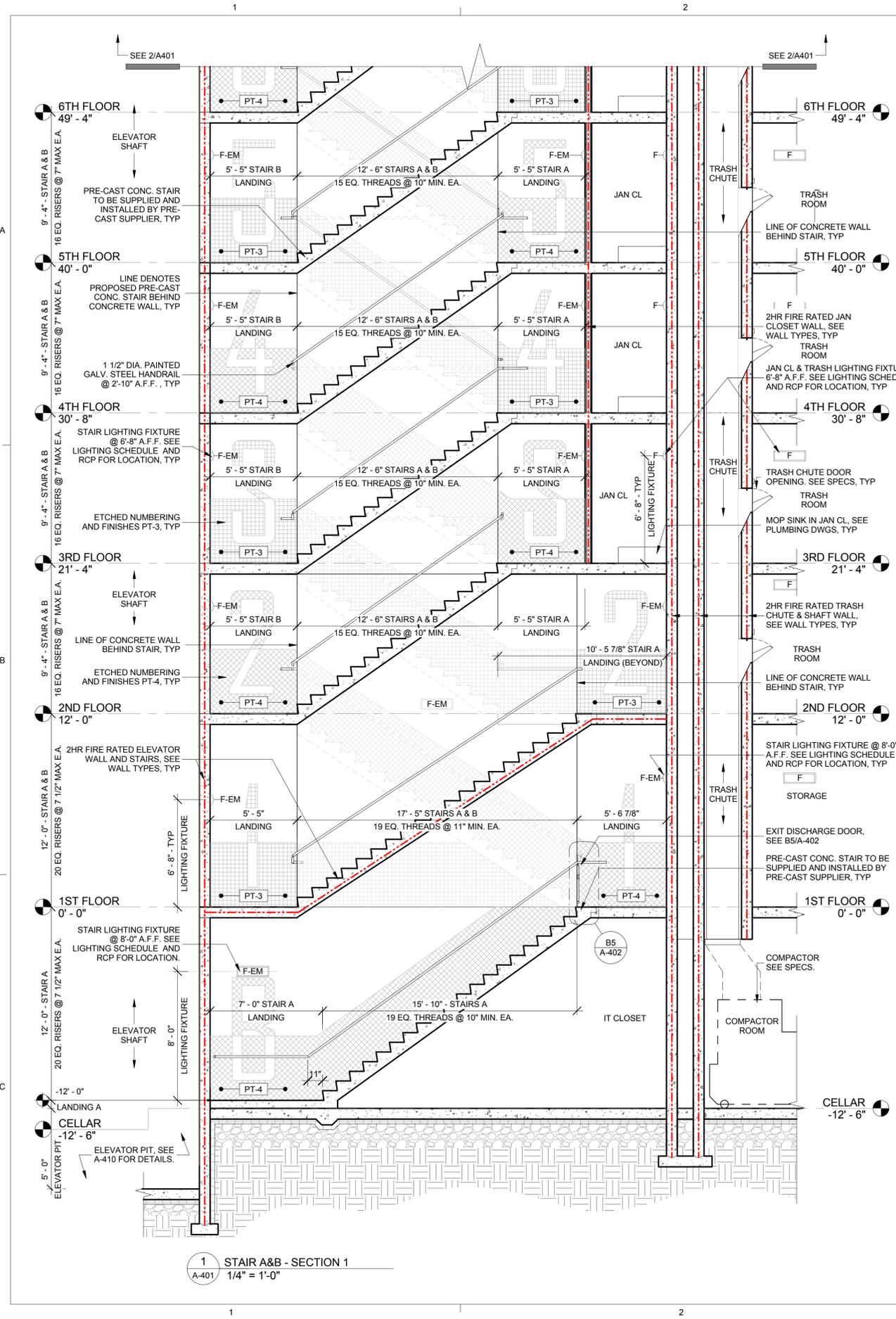
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STAIR PLANS

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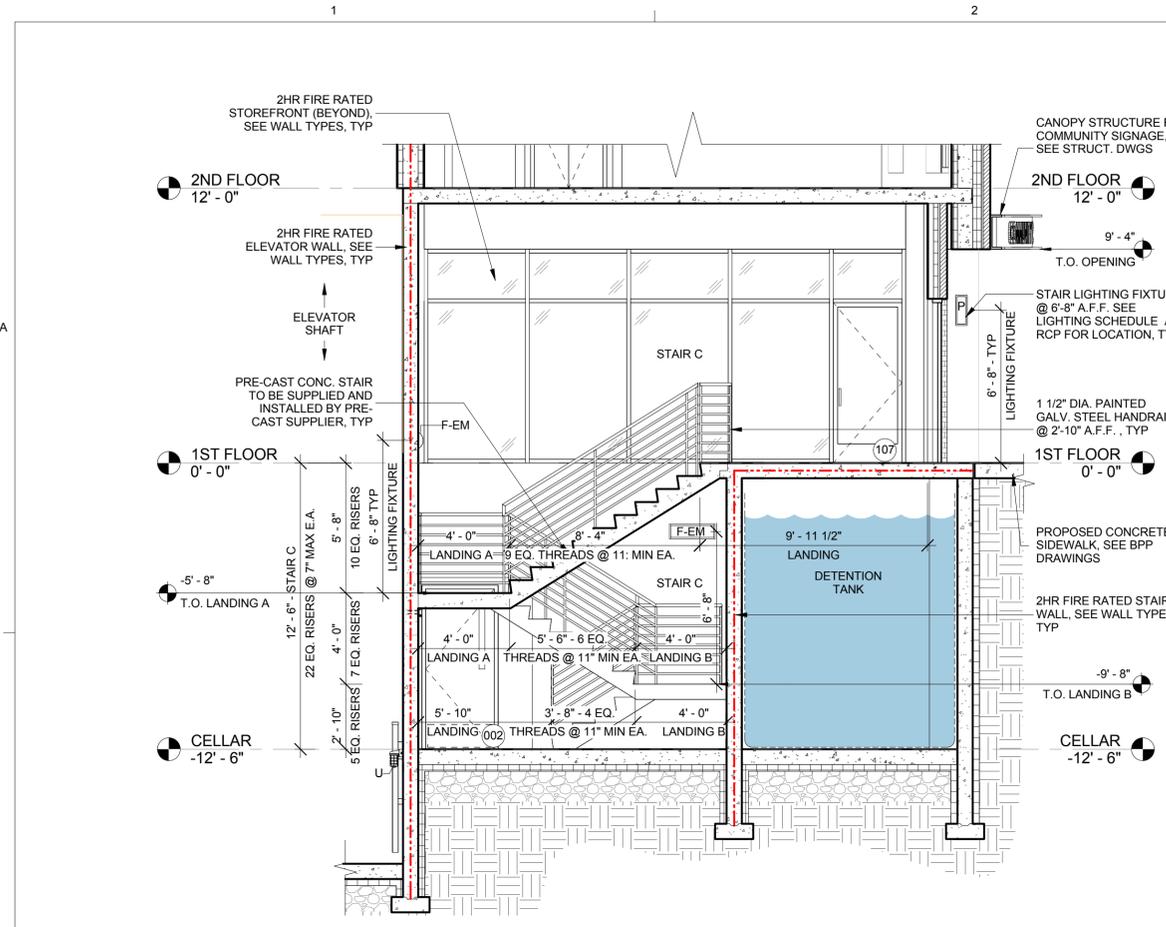
Title:
STAIR SECTIONS

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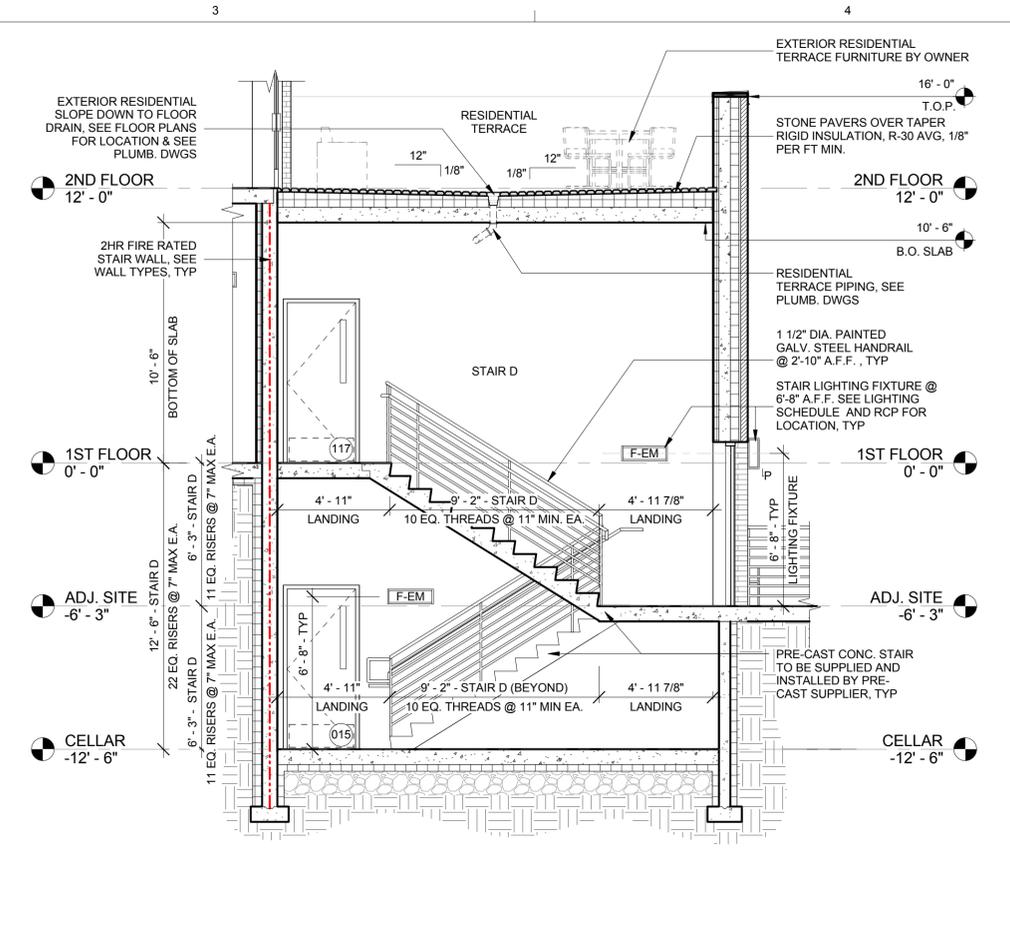
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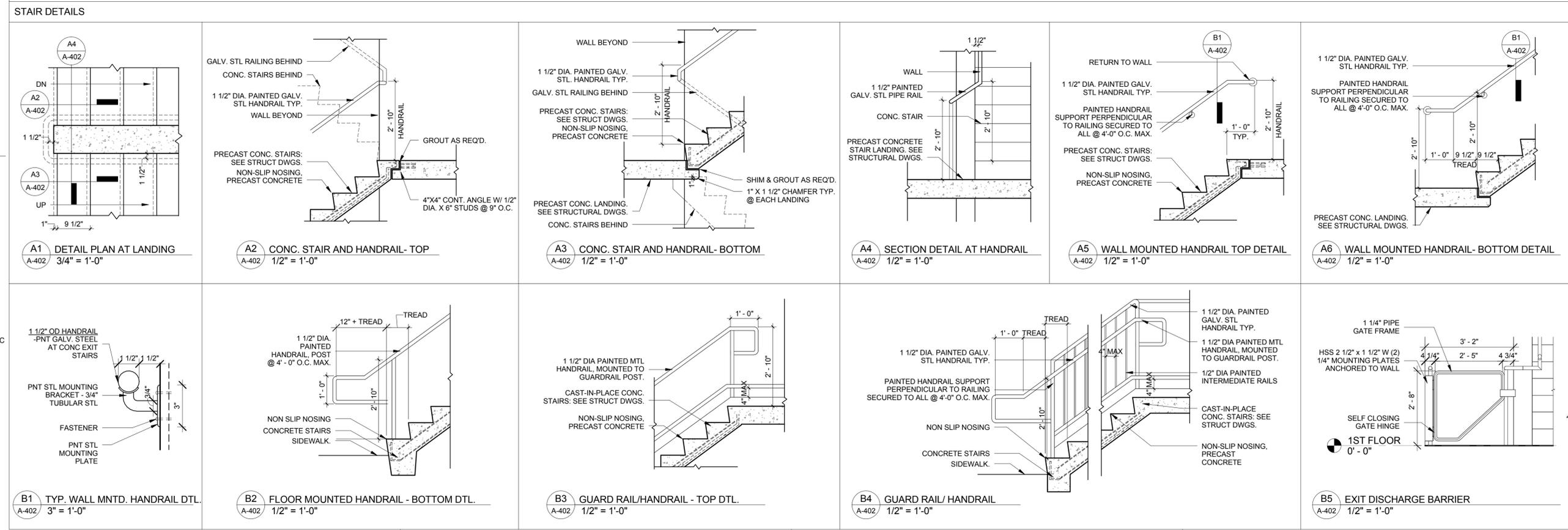
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1 STAIR C - SECTION 1
1/4" = 1'-0"



2 STAIR D - SECTION 1
1/4" = 1'-0"



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STAIR SECTIONS & DETAILS

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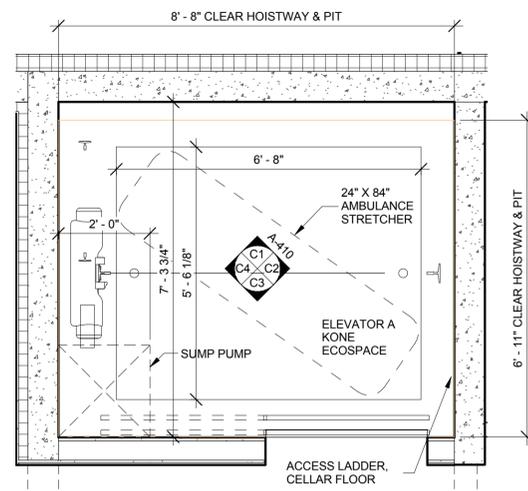
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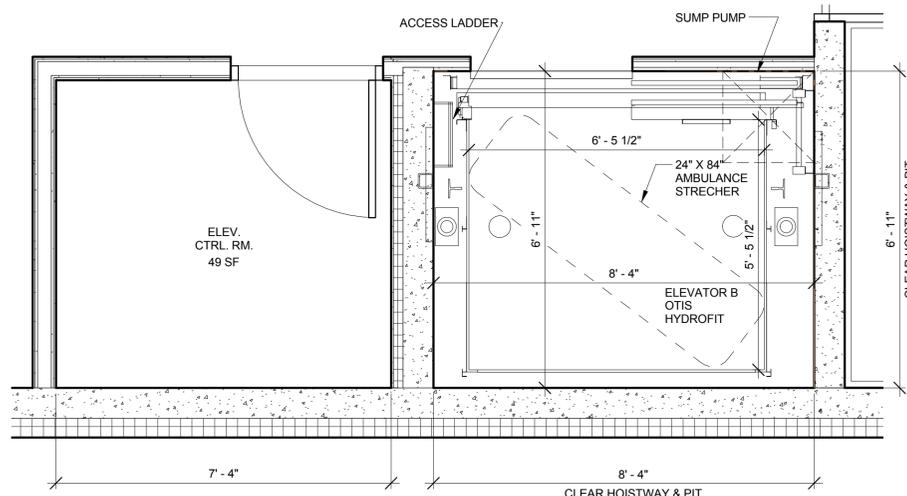
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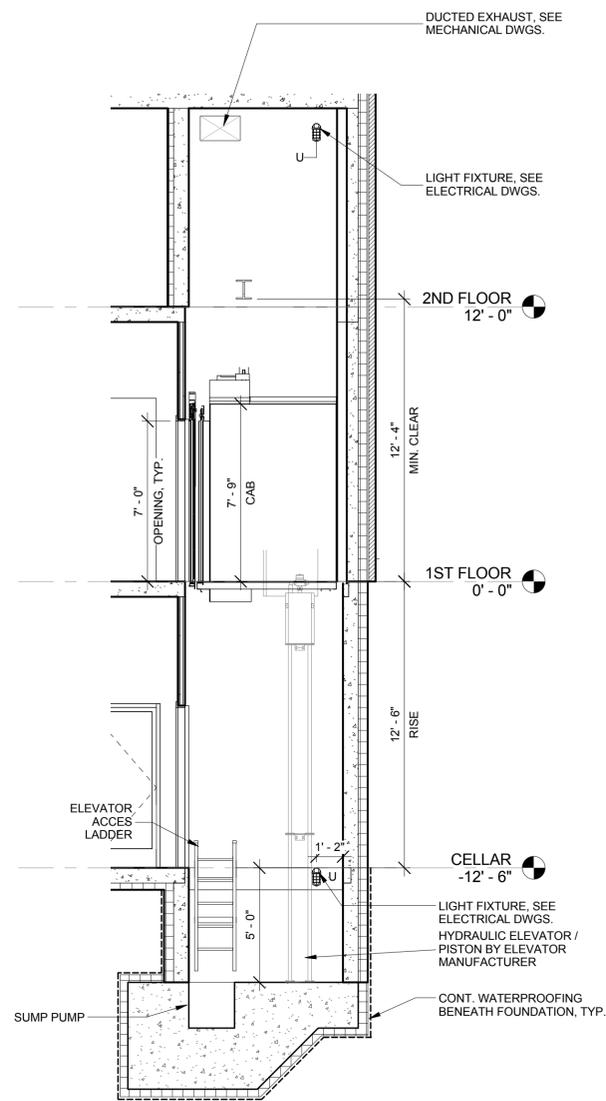
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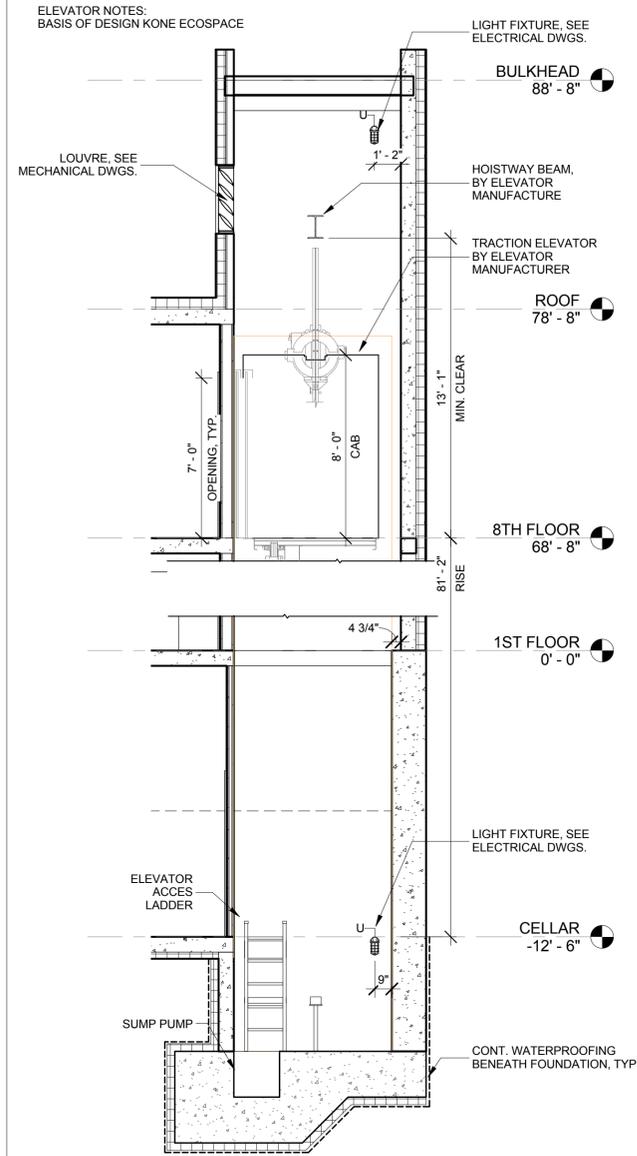
A2 ELEVATOR A PLAN
A-410 1/2" = 1'-0"



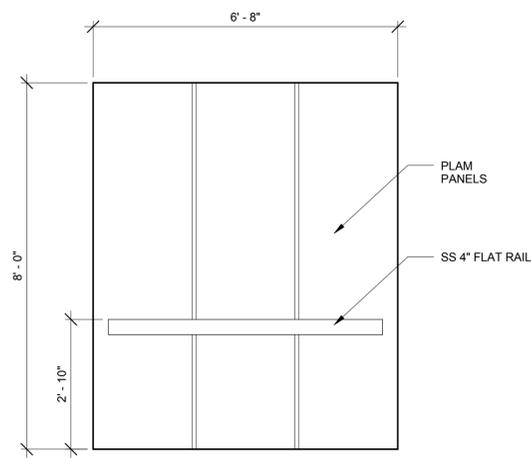
B2 ELEVATOR B PLAN
A-410 1/2" = 1'-0"



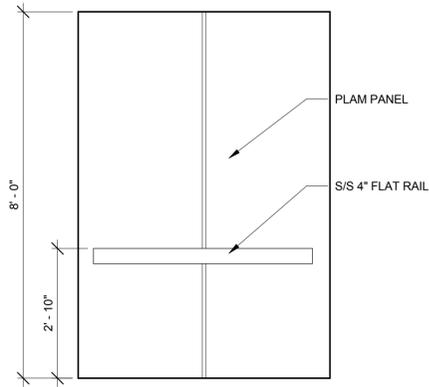
B3 ELEVATION B SECTION (HYDRAULIC)
A-410 1/4" = 1'-0"



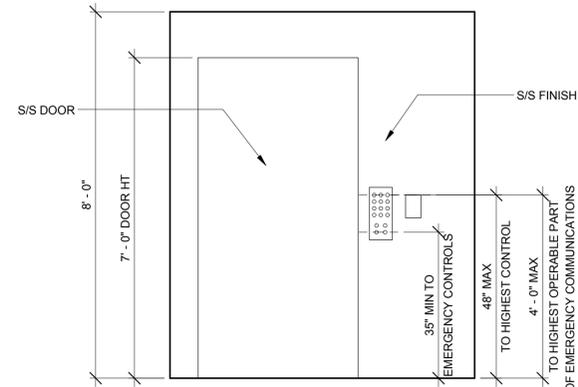
B4 ELEVATOR A SECTION (TRACTION)
A-410 1/4" = 1'-0"



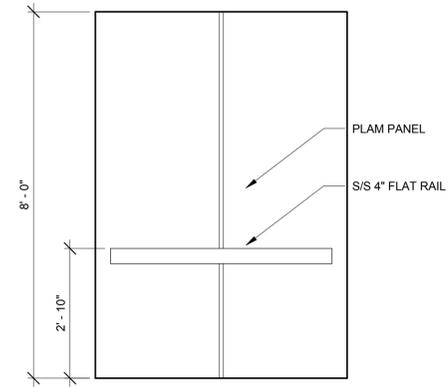
C1 ELEVATOR INTERIOR ELEVATION A
A-410 1/2" = 1'-0"



C2 ELEVATOR INTERIOR ELEVATION B
A-410 1/2" = 1'-0"



C3 ELEVATOR INTERIOR ELEVATION C
A-410 1/2" = 1'-0"



C4 ELEVATOR INTERIOR ELEVATION D
A-410 1/2" = 1'-0"

ELEVATOR NOTES:
BASIS OF DESIGN KONE ECOSPACE

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ELEVATOR PLANS/ SECTIONS/DETAILS



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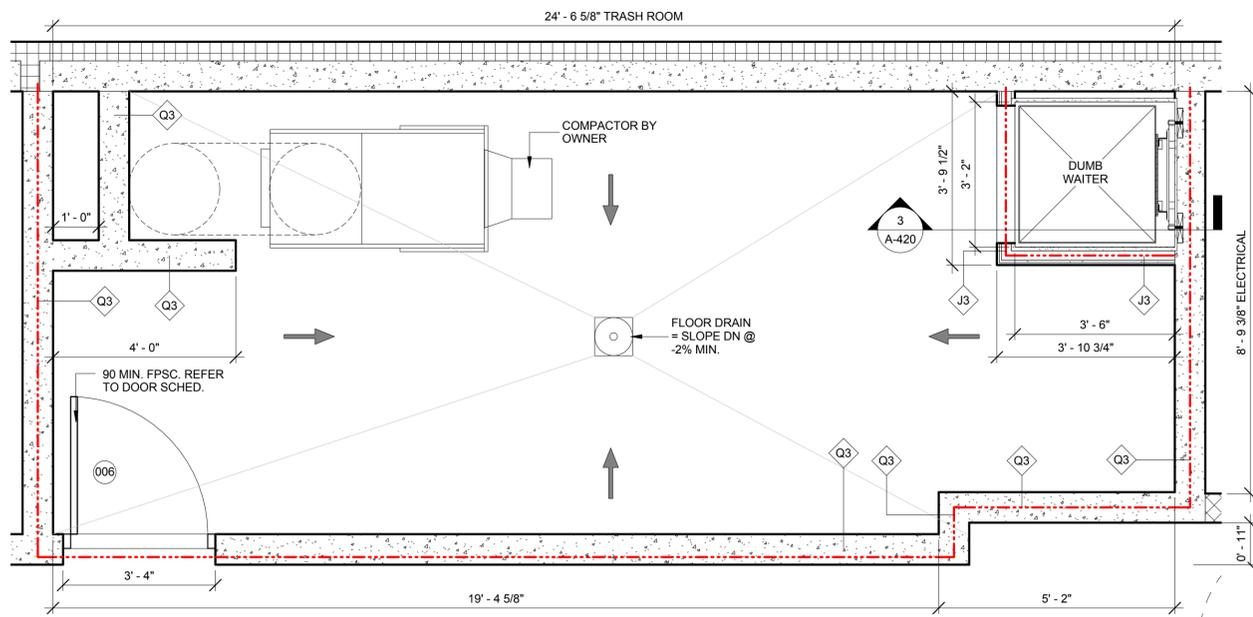
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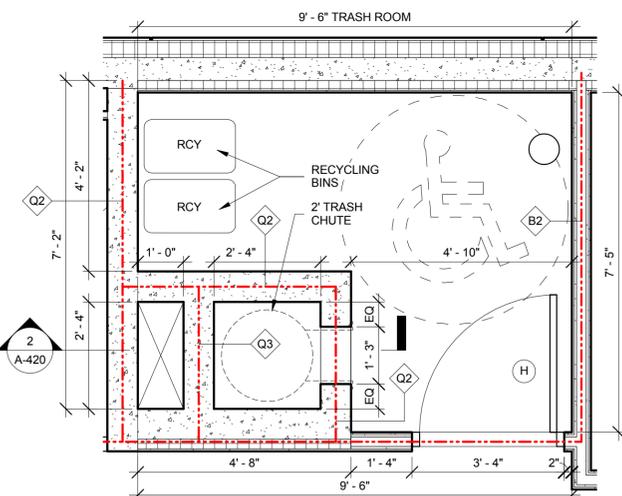
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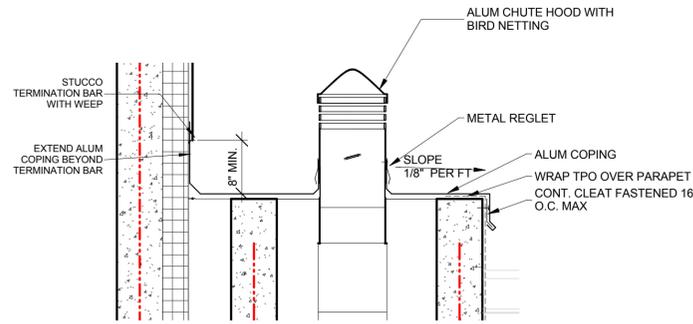
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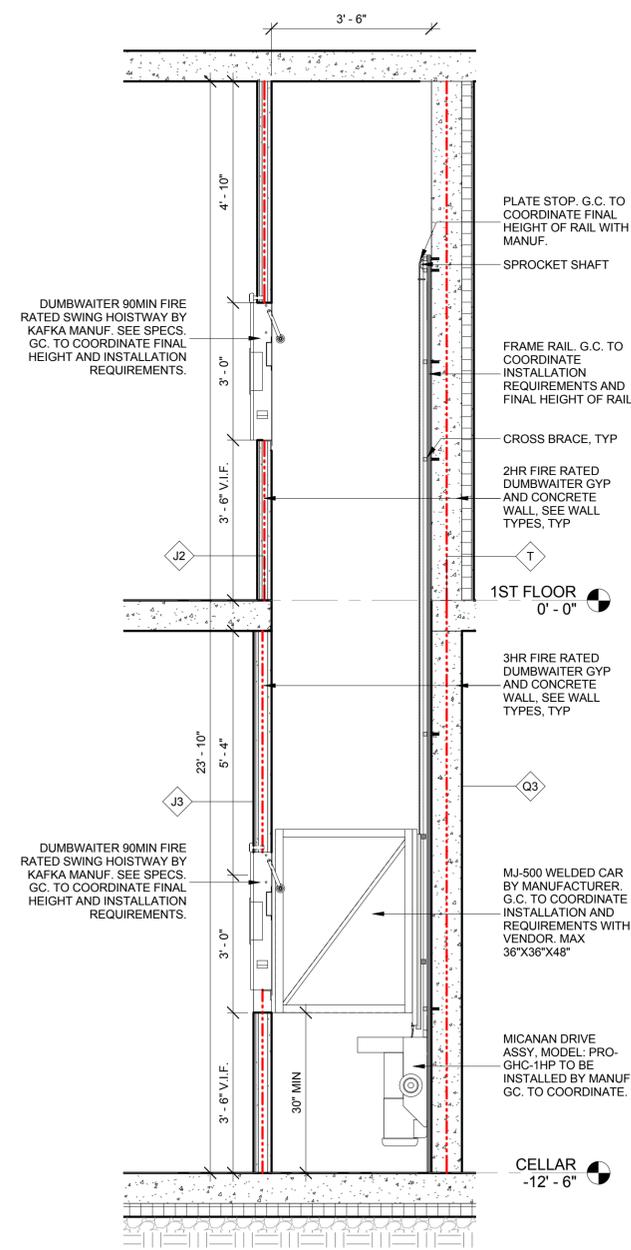
1 PLAN AT COMPACTOR ROOM
A-420 1/2" = 1'-0"



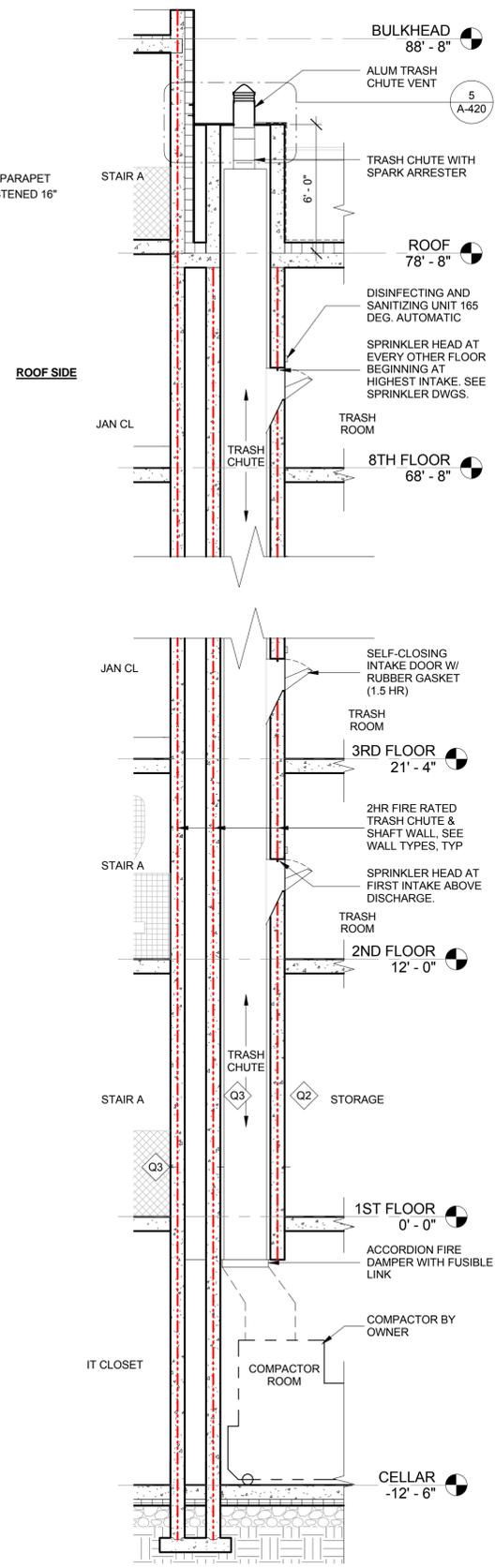
4 PLAN AT TRASH CHUTE- TYP. FLOOR
A-420 1/2" = 1'-0"



5 SECTION AT TRASH CHUTE
A-420 3/4" = 1'-0"



3 DUMB WAITER SECTION
A-420 1/2" = 1'-0"



2 TRASH CHUTE SECTION
A-420 1/4" = 1'-0"

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TRASH CHUTE/COMPACTOR ROOM PLANS/SECTIONS/DETAILS



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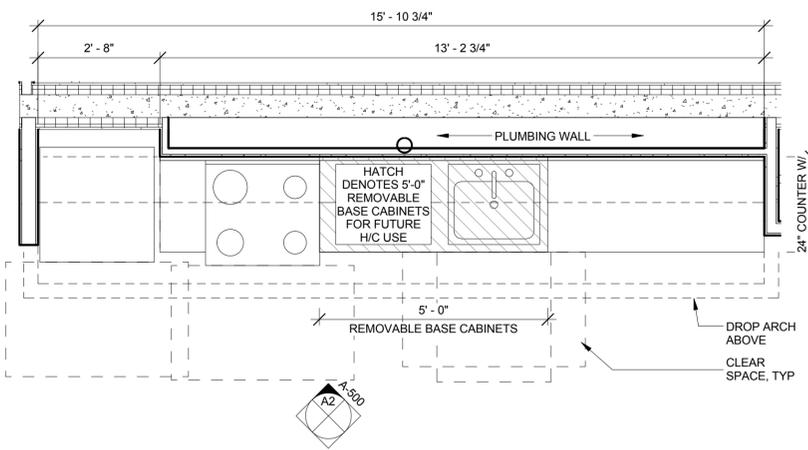
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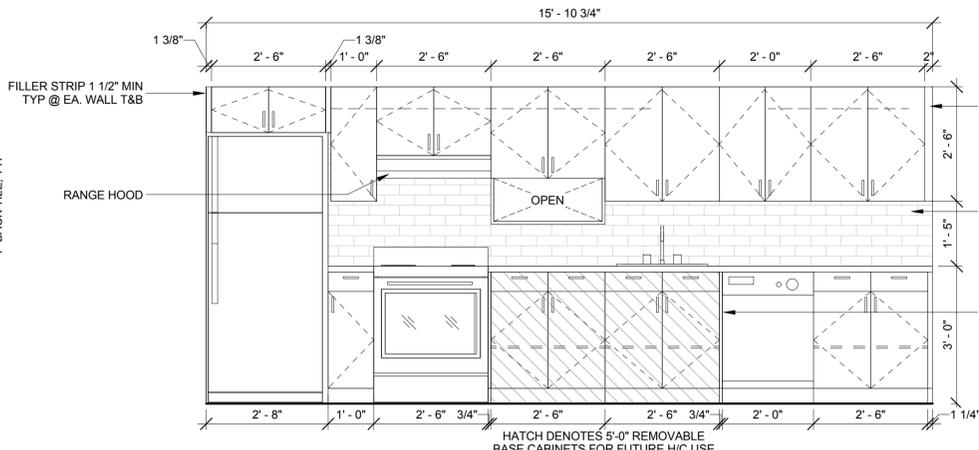
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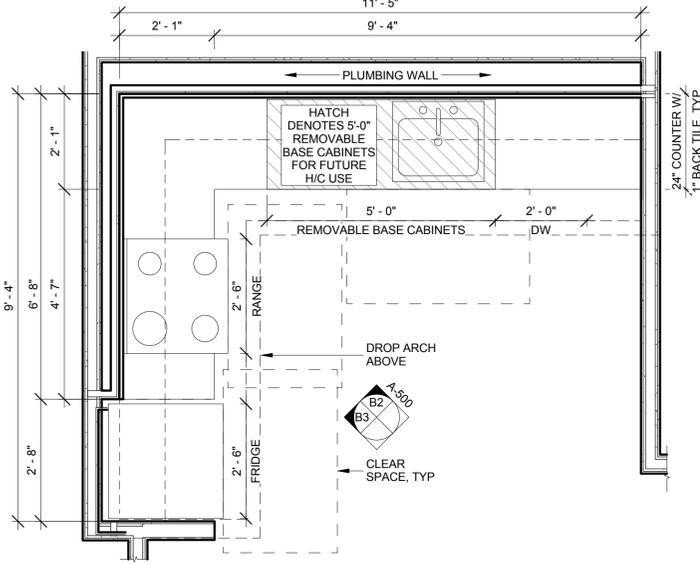
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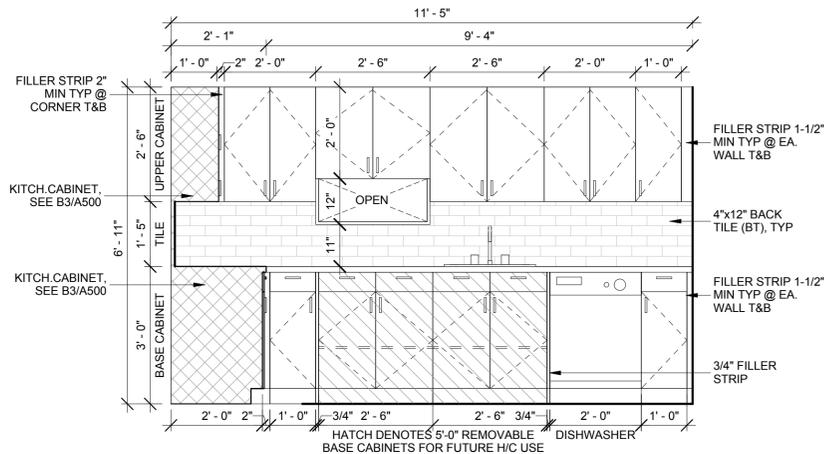
A1 TYPE 1 KITCHEN PLAN
A-500 1/2" = 1'-0"



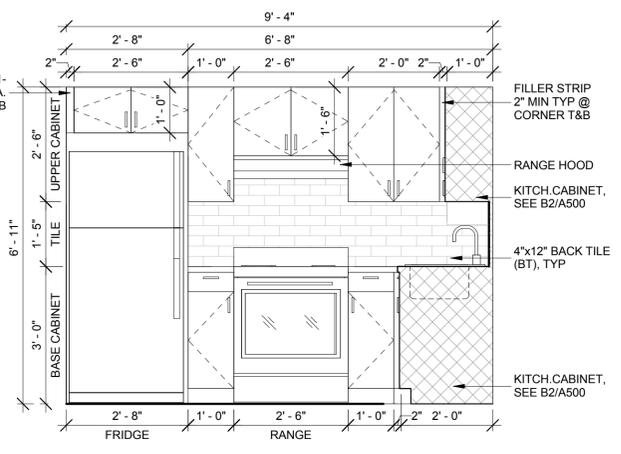
A2 TYPE 1 KITCHEN ELEVATION A
A-500 1/2" = 1'-0"



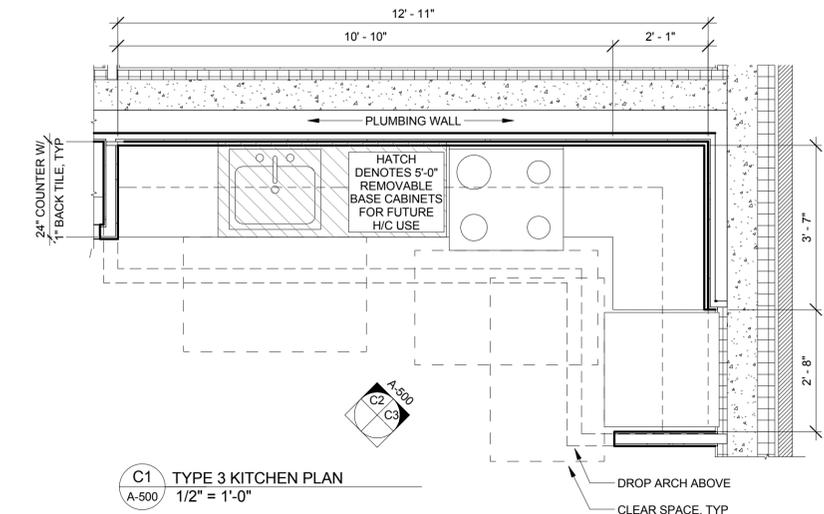
B1 TYPE 2 KITCHEN PLAN
A-500 1/2" = 1'-0"



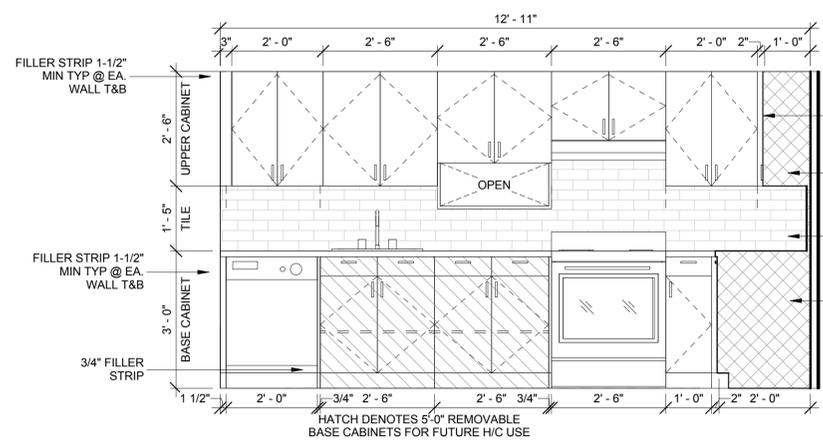
B2 TYPE 2 KITCHEN ELEVATION A
A-500 1/2" = 1'-0"



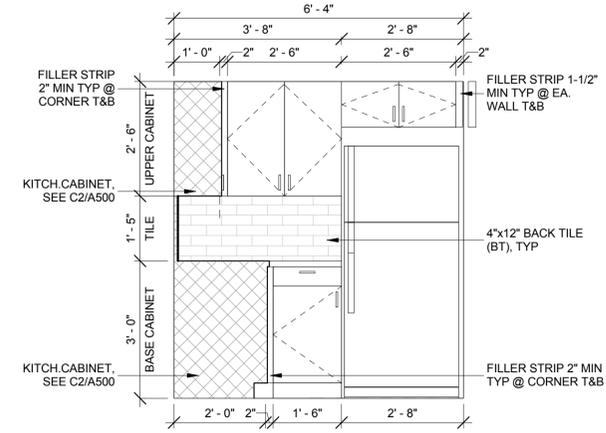
B3 TYPE 2 KITCHEN ELEVATION B
A-500 1/2" = 1'-0"



C1 TYPE 3 KITCHEN PLAN
A-500 1/2" = 1'-0"



C2 TYPE 3 KITCHEN ELEVATION A
A-500 1/2" = 1'-0"



C3 TYPE 3 KITCHEN ELEVATION B
A-500 1/2" = 1'-0"

- GENERAL KITCHEN NOTES:**
1. PROVIDE 3/4" SIDE PANELS WHEN REMOVABLE CABINETS ARE NEXT TO AN APPLIANCE
 2. PROVIDE 3/4" SIDE PANEL BETWEEN DISHWASHER AND FRIDGE WHEN THEY ARE NEXT EA.
 3. PROVIDE 1/2" CLR MIN ON EACH SIDE OF FRIDGE
 4. WHEN APPLIANCE IS NEXT TO WALL, PROVIDE 3/4" MIN FILLER
 5. TOP OF UPPER CABINET BOTTOM SHELF TO BE 48" MAX AFF



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 New York, NY 10001

KEY PLAN

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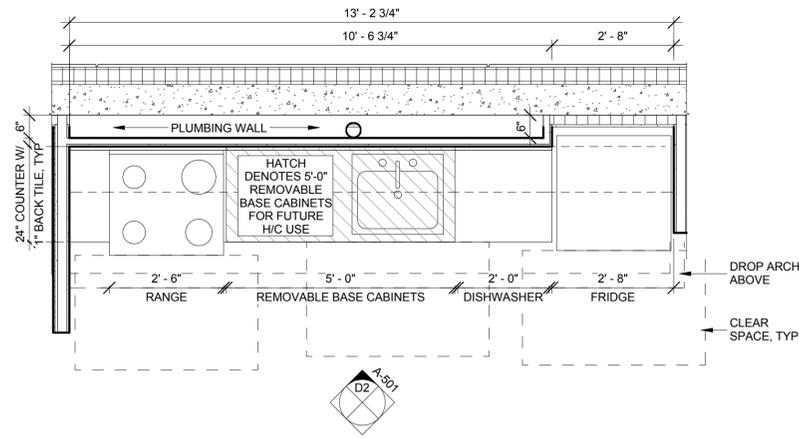
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KITCHEN ELEVATIONS

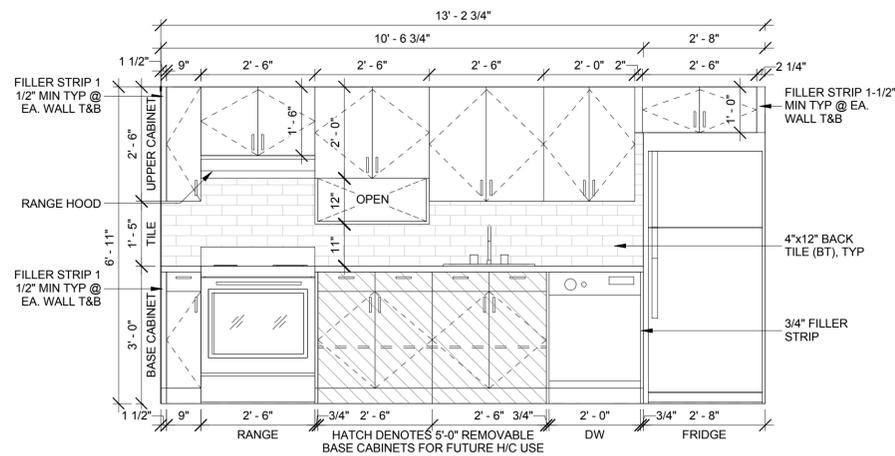


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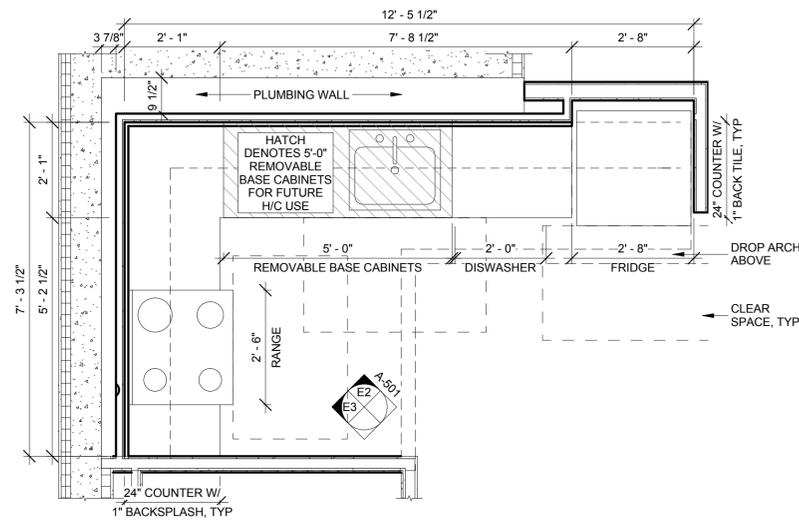
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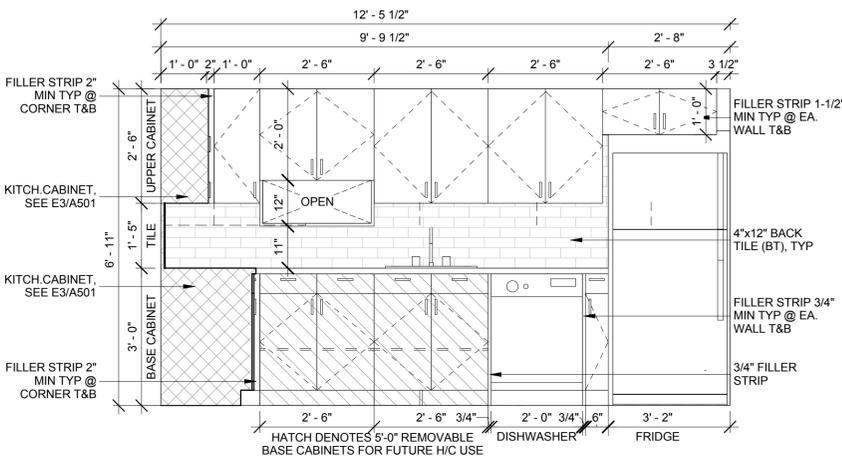
D1 TYPE 4 KITCHEN PLAN
A-501 1/2" = 1'-0"



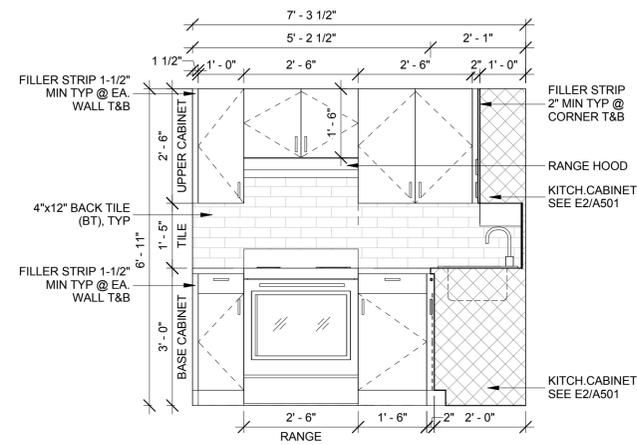
D2 TYPE 4 KITCHEN ELEVATION A
A-501 1/2" = 1'-0"



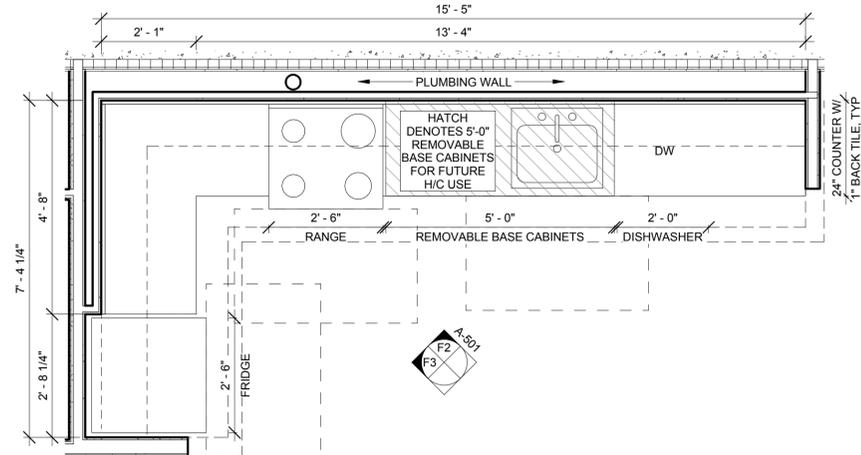
E1 TYPE 5 KITCHEN PLAN
A-501 1/2" = 1'-0"



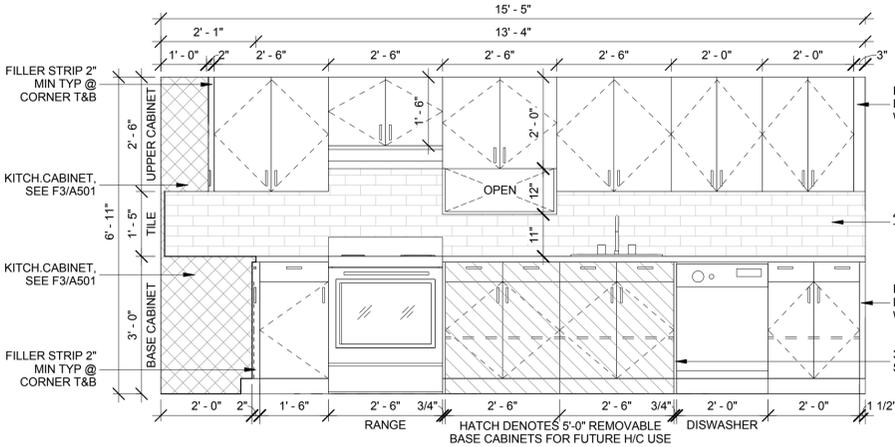
E2 TYPE 5 KITCHEN ELEVATION A
A-501 1/2" = 1'-0"



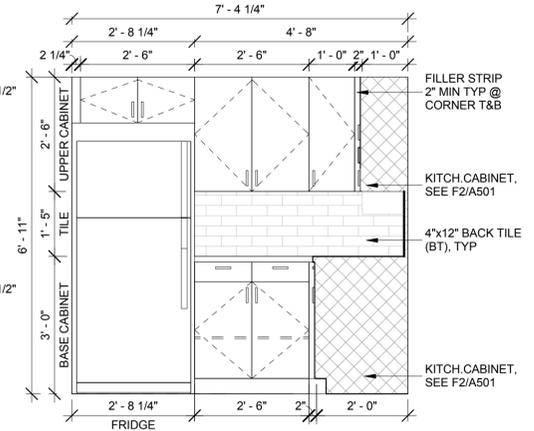
E3 TYPE 5 KITCHEN ELEVATION B
A-501 1/2" = 1'-0"



F1 TYPE 6 KITCHEN PLAN
A-501 1/2" = 1'-0"

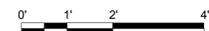


F2 TYPE 6 KITCHEN ELEVATION A
A-501 1/2" = 1'-0"



F3 TYPE 6 KITCHEN ELEVATION B
A-501 1/2" = 1'-0"

- GENERAL KITCHEN NOTES:**
1. PROVIDE 3/4" SIDE PANELS WHEN REMOVABLE CABINETS ARE NEXT TO AN APPLIANCE
 2. PROVIDE 3/4" SIDE PANEL BETWEEN DISHWASHER AND FRIDGE WHEN THEY ARE NEXT EA.
 3. PROVIDE 1/2" CLR MIN ON EACH SIDE OF FRIDGE
 4. WHEN APPLIANCE IS NEXT TO WALL, PROVIDE 3/4" MIN FILLER
 5. TOP OF UPPER CABINET BOTTOM SHELF TO BE 48" MAX AFF



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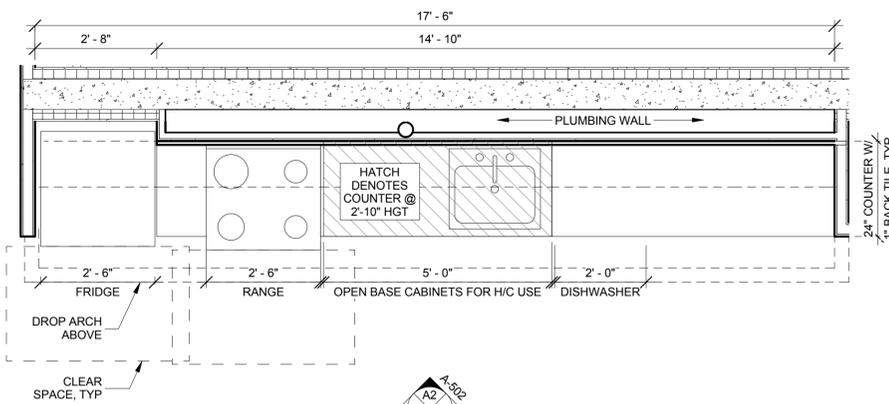
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KITCHEN ELEVATIONS

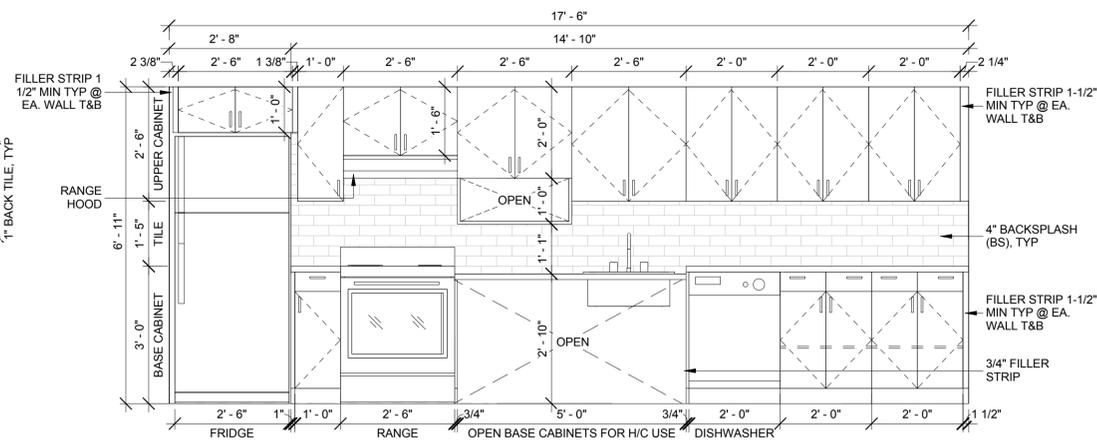


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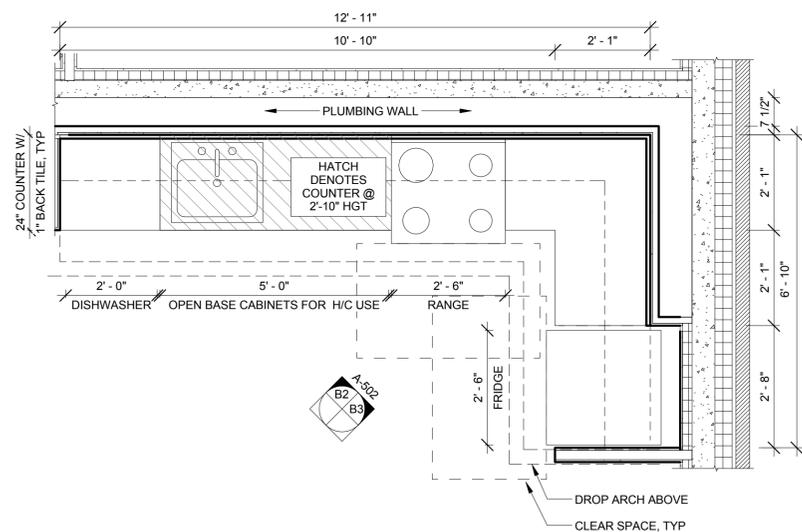
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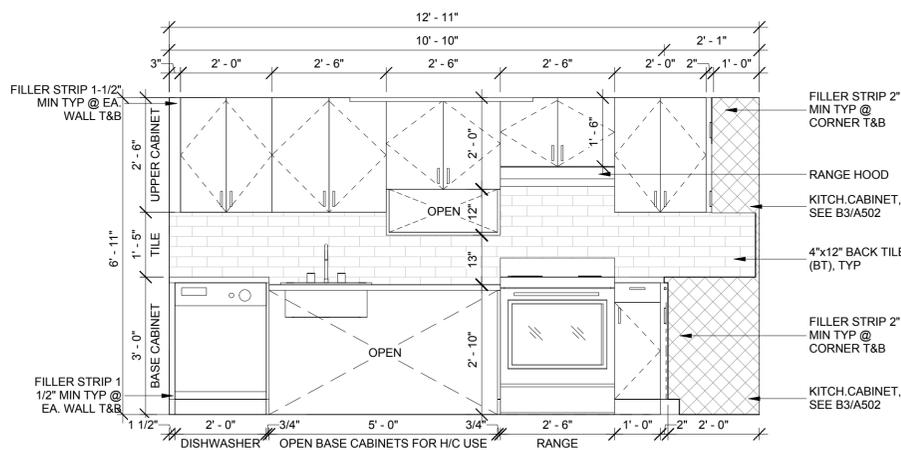
A1 TYPE 7 KITCHEN PLAN (UFAS)
A-502 1/2" = 1'-0"



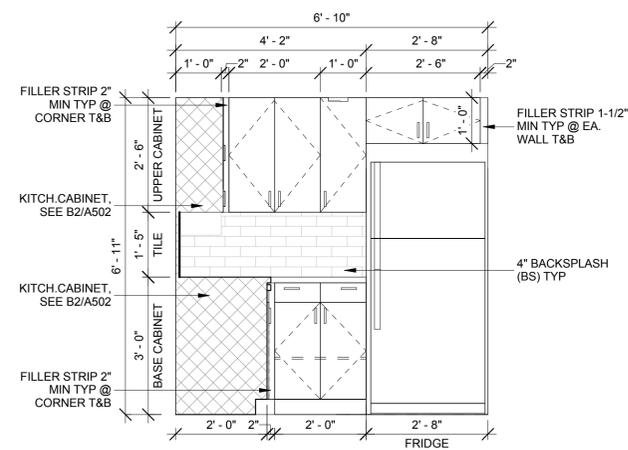
A2 TYPE 7 KITCHEN ELEVATION A (UFAS)
A-502 1/2" = 1'-0"



B1 TYPE 8 KITCHEN PLAN UFAS
A-502 1/2" = 1'-0"



B2 TYPE 8 KITCHEN ELEVATION A (UFAS)
A-502 1/2" = 1'-0"



B3 TYPE 8 KITCHEN ELEVATION B (UFAS)
A-502 1/2" = 1'-0"

- GENERAL KITCHEN NOTES:**
1. PROVIDE 3/4" SIDE PANELS WHEN REMOVABLE CABINETS ARE NEXT TO AN APPLIANCE
 2. PROVIDE 3/4" SIDE PANEL BETWEEN DISHWASHER AND FRIDGE WHEN THEY ARE NEXT EA.
 3. PROVIDE 1/2" CLR MIN ON EACH SIDE OF FRIDGE
 4. WHEN APPLIANCE IS NEXT TO WALL, PROVIDE 3/4" MIN FILLER
 5. TOP OF UPPER CABINET BOTTOM SHELF TO BE 48" MAX AFF



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KITCHEN ELEVATIONS - UFAS



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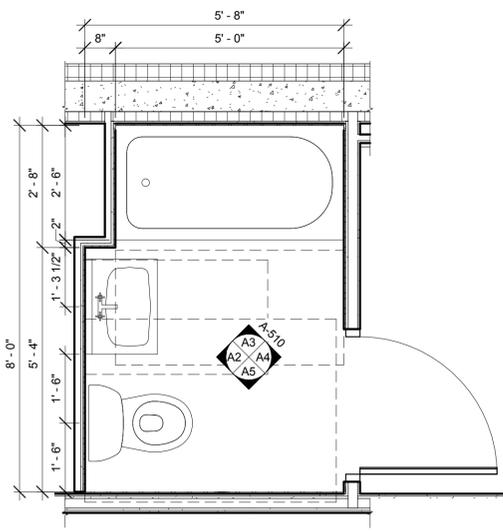
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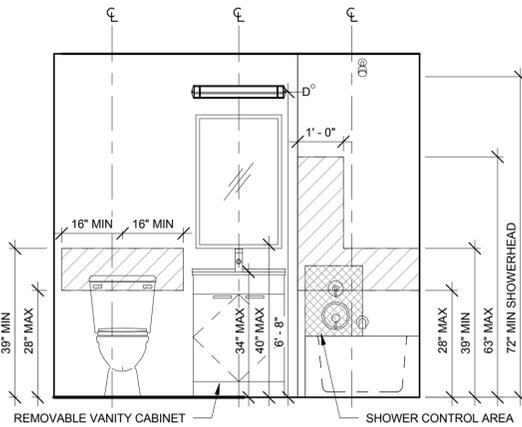
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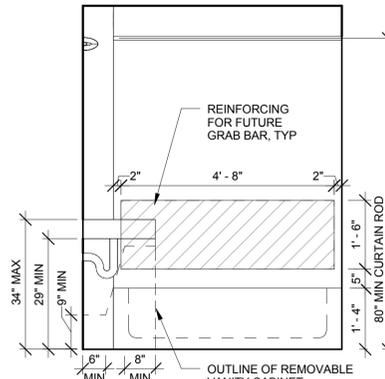
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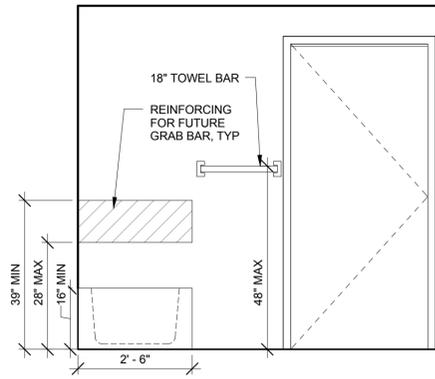
A1 TYPE 1 BATHROOM PLAN
A-510 1/2" = 1'-0"



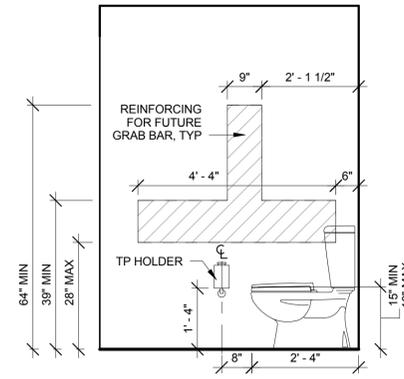
A2 TYPE 1 BATHROOM ELEV. A
A-510 1/2" = 1'-0"



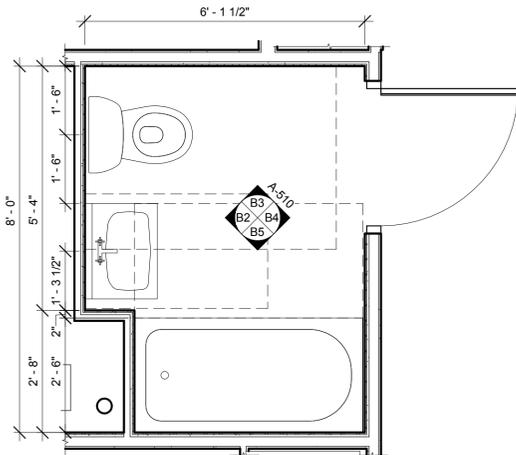
A3 TYPE 1 BATHROOM ELEV. B
A-510 1/2" = 1'-0"



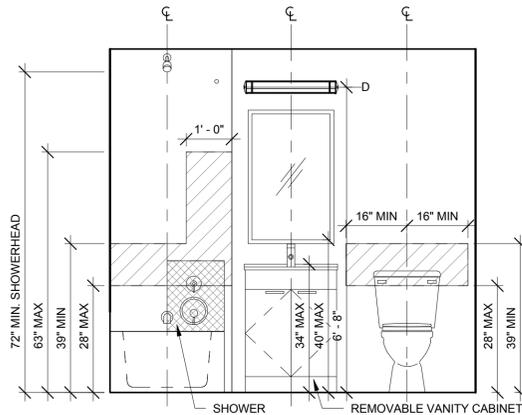
A4 TYPE 1 BATHROOM ELEV. C
A-510 1/2" = 1'-0"



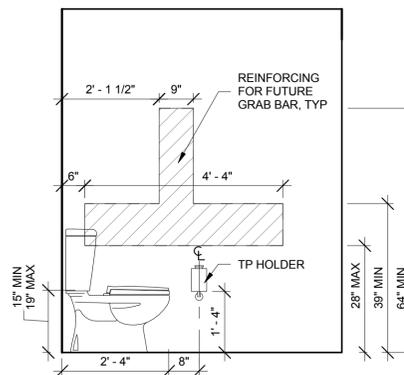
A5 TYPE 1 BATHROOM ELEV. D
A-510 1/2" = 1'-0"



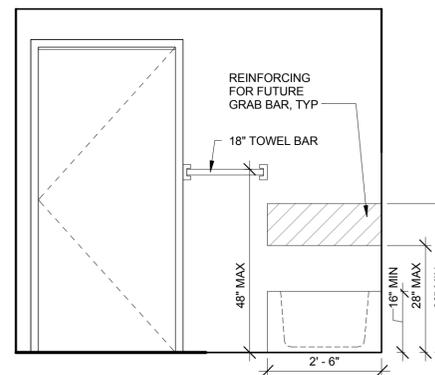
B1 TYPE 2 BATHROOM PLAN
A-510 1/2" = 1'-0"



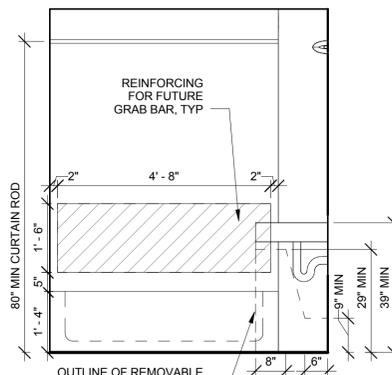
B2 TYPE 2 BATHROOM ELEV. A
A-510 1/2" = 1'-0"



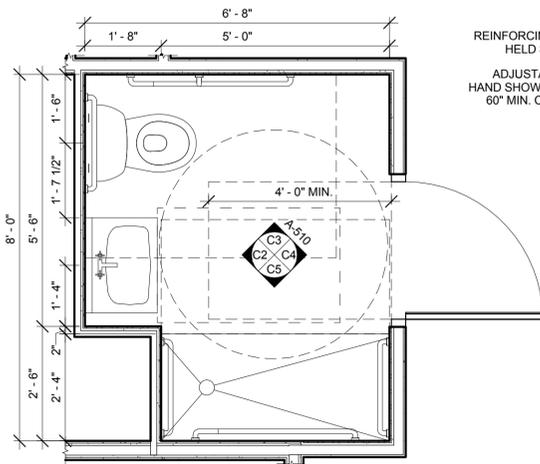
B3 TYPE 2 BATHROOM ELEV. B
A-510 1/2" = 1'-0"



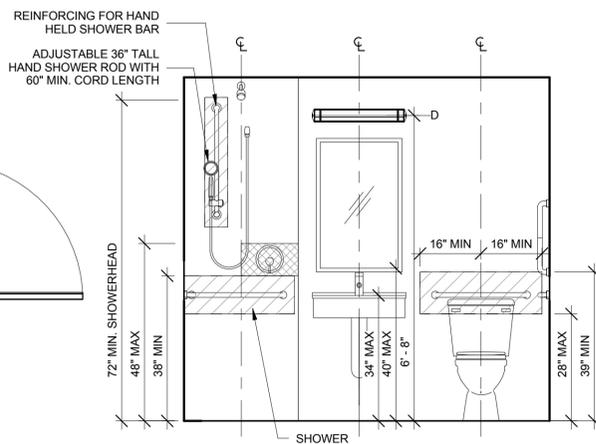
B4 TYPE 2 BATHROOM ELEV. C
A-510 1/2" = 1'-0"



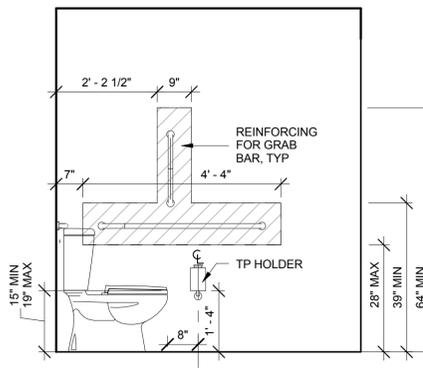
B5 TYPE 2 BATHROOM ELEV. D
A-510 1/2" = 1'-0"



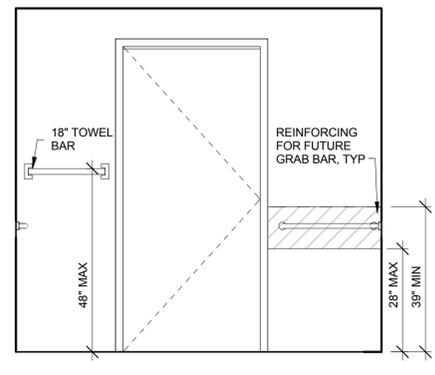
C1 TYPE 3 BATHROOM PLAN - UFAS
A-510 1/2" = 1'-0"



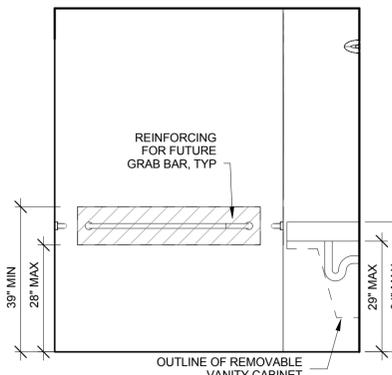
C2 TYPE 3 BATHROOM ELEV. A
A-510 1/2" = 1'-0"



C3 TYPE 3 BATHROOM ELEV. B
A-510 1/2" = 1'-0"



C4 TYPE 3 BATHROOM ELEV. C
A-510 1/2" = 1'-0"



C5 TYPE 3 BATHROOM ELEV. D
A-510 1/2" = 1'-0"

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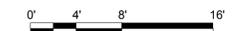
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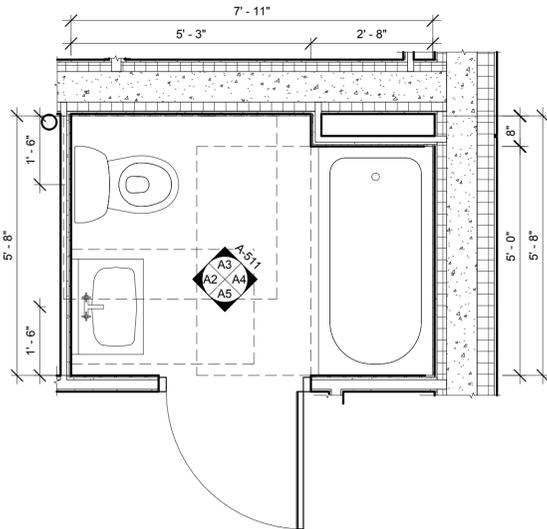
BATHROOM ELEVATIONS

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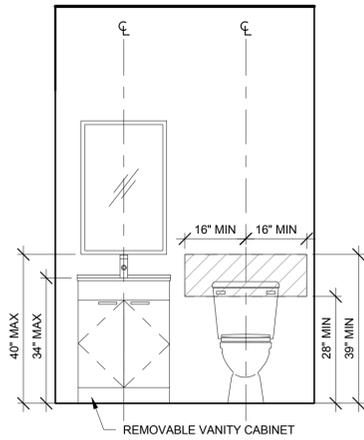
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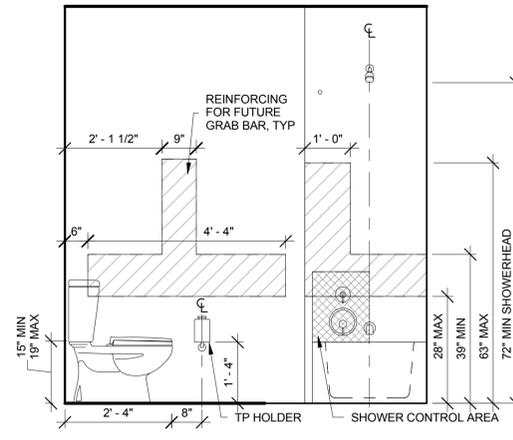




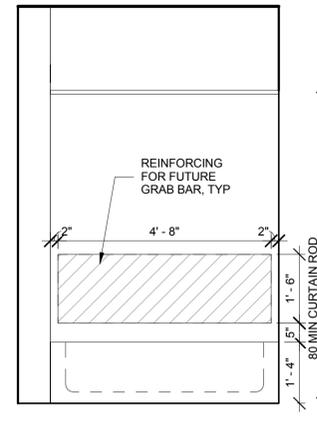
A1 TYPE 4 BATHROOM PLAN
A-511 1/2" = 1'-0"



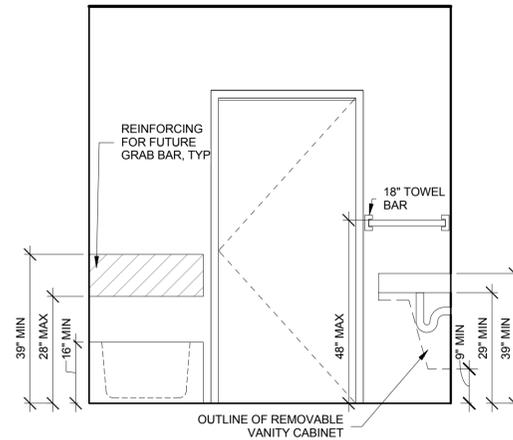
A2 TYPE 4 BATHROOM ELEV. A
A-511 1/2" = 1'-0"



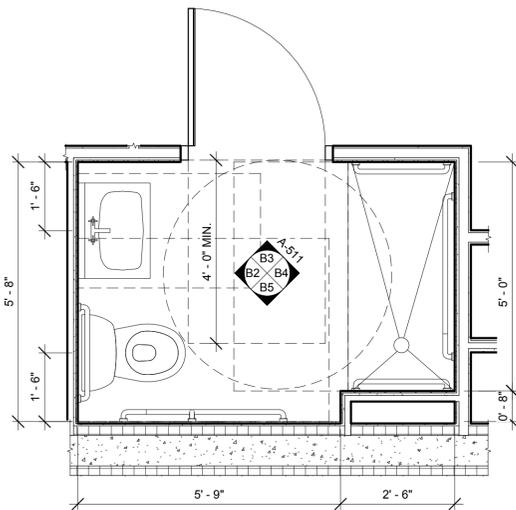
A3 TYPE 4 BATHROOM ELEV. B
A-511 1/2" = 1'-0"



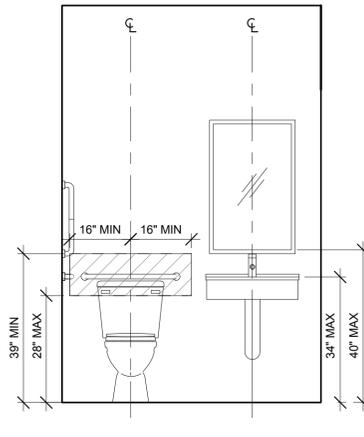
A4 TYPE 4 BATHROOM ELEV. C
A-511 1/2" = 1'-0"



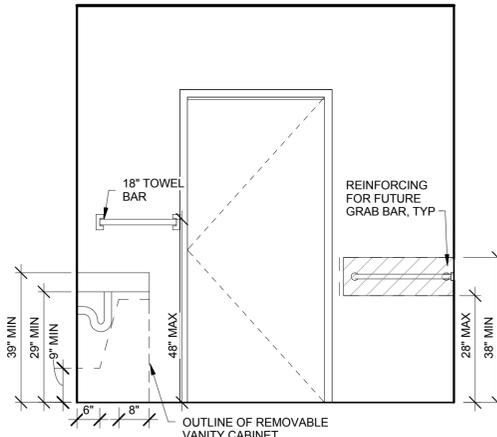
A5 TYPE 4 BATHROOM ELEV. D
A-511 1/2" = 1'-0"



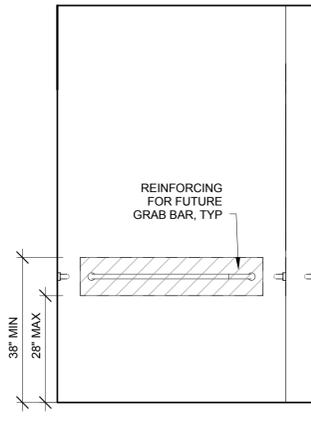
B1 TYPE 5 BATHROOM PLAN - UFAS
A-511 1/2" = 1'-0"



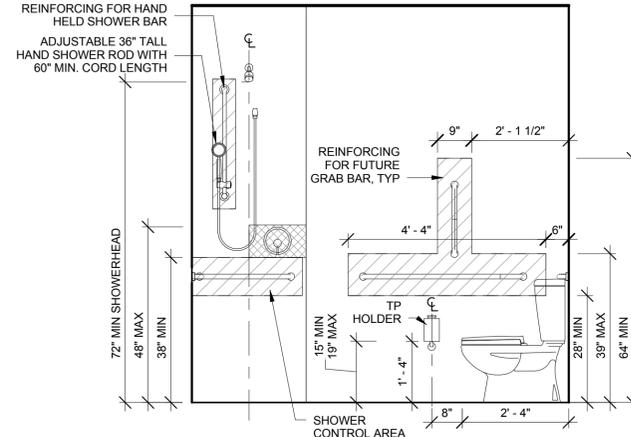
B2 TYPE 5 BATHROOM ELEV. A
A-511 1/2" = 1'-0"



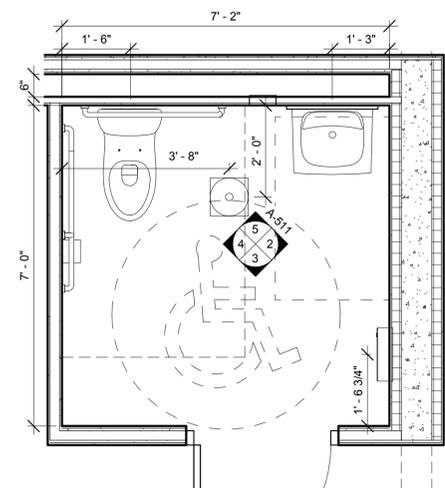
B3 TYPE 5 BATHROOM ELEV. B
A-511 1/2" = 1'-0"



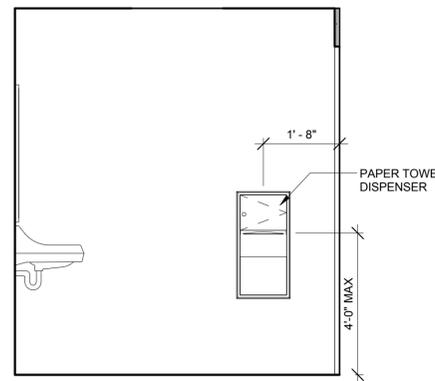
B4 TYPE 5 BATHROOM ELEV. C
A-511 1/2" = 1'-0"



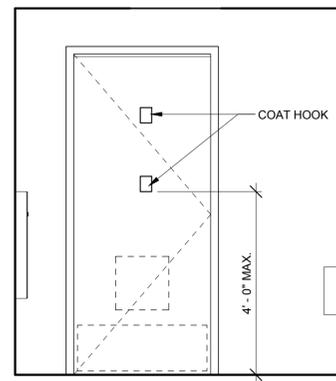
B5 TYPE 5 BATHROOM ELEV. D
A-511 1/2" = 1'-0"



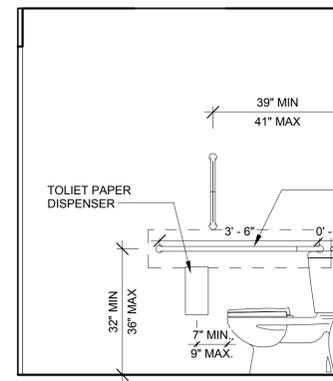
1 TYPE 7 BATHROOM PLAN
A-511 1/2" = 1'-0"



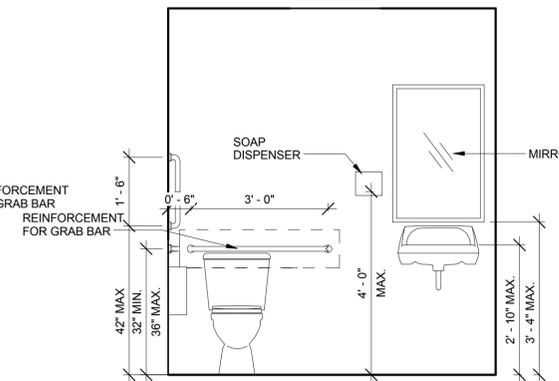
2 TYPE 7 BATHROOM ELEV. A
A-511 1/2" = 1'-0"



3 TYPE 7 BATHROOM ELEV. B
A-511 1/2" = 1'-0"



4 TYPE 7 BATHROOM ELEV. C
A-511 1/2" = 1'-0"



5 TYPE 7 BATHROOM ELEV. D
A-511 1/2" = 1'-0"



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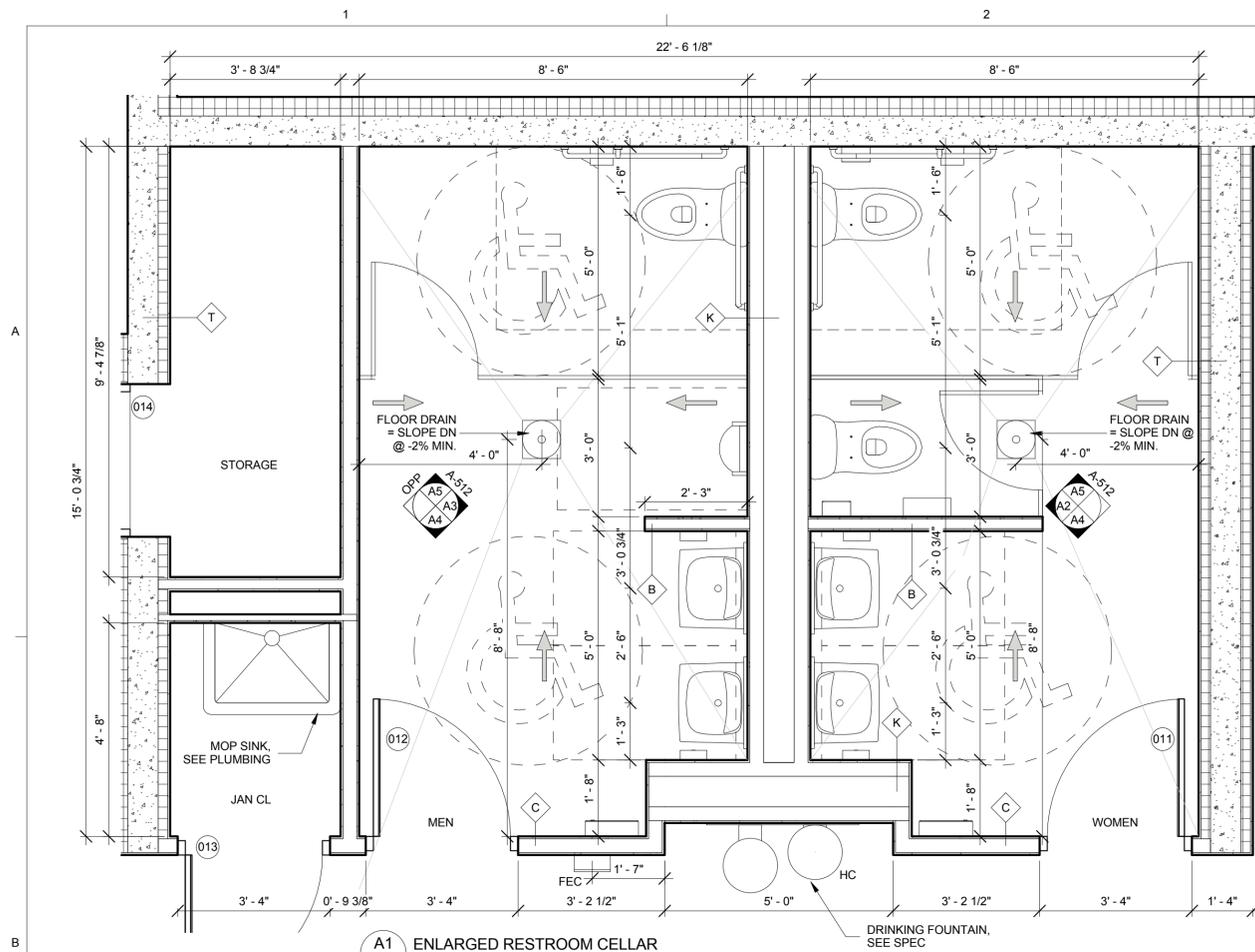
BATHROOM ELEVATIONS



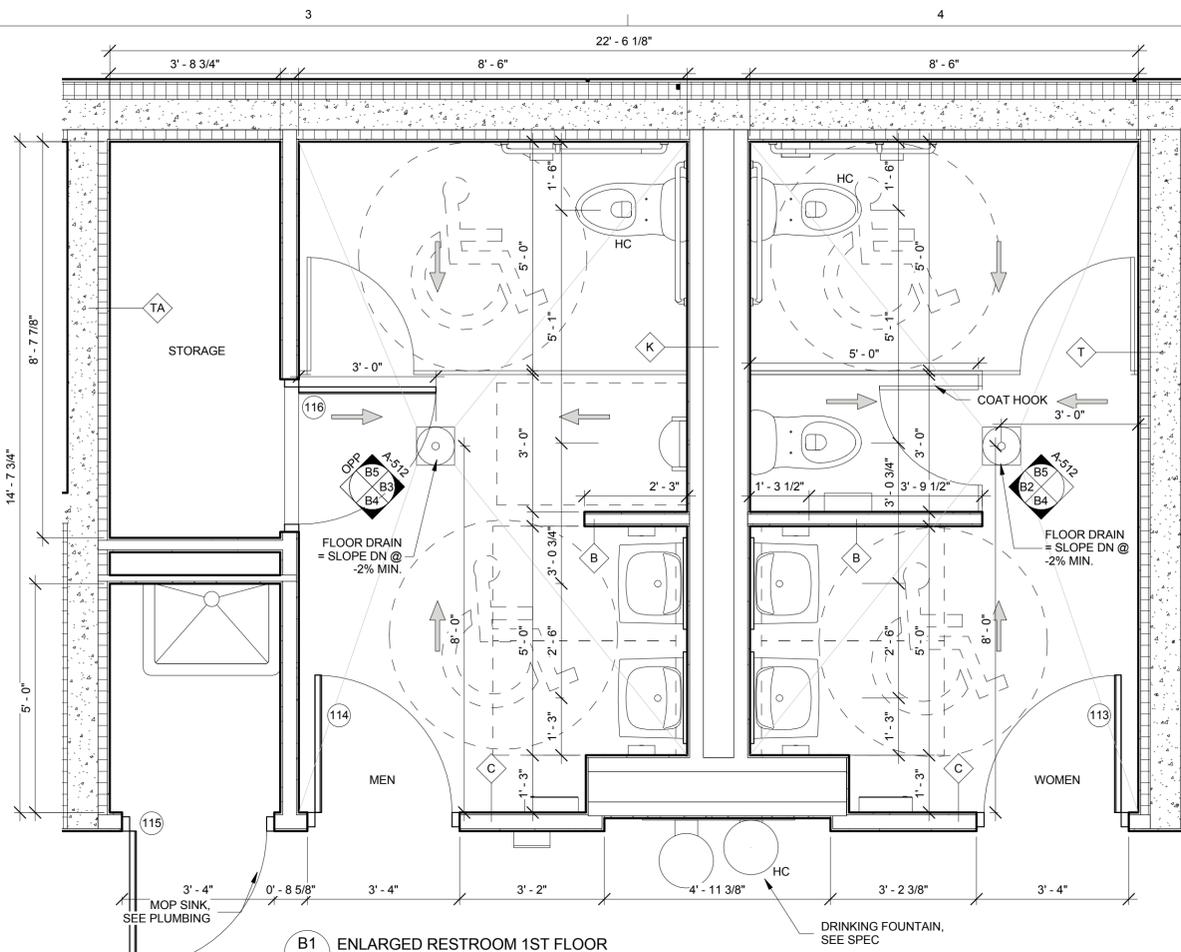
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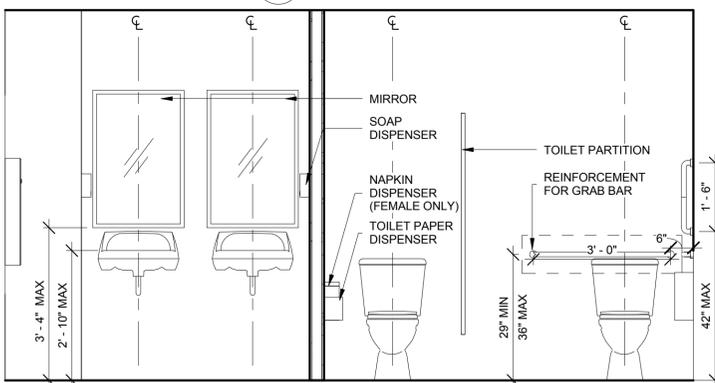
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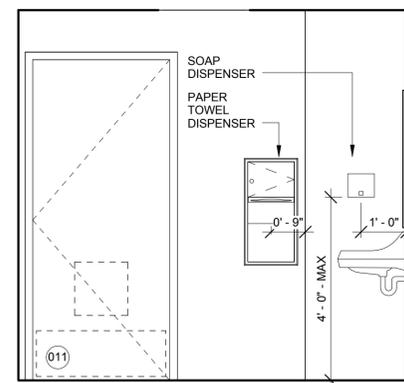
A1 ENLARGED RESTROOM CELLAR
A-512 1/2" = 1'-0"



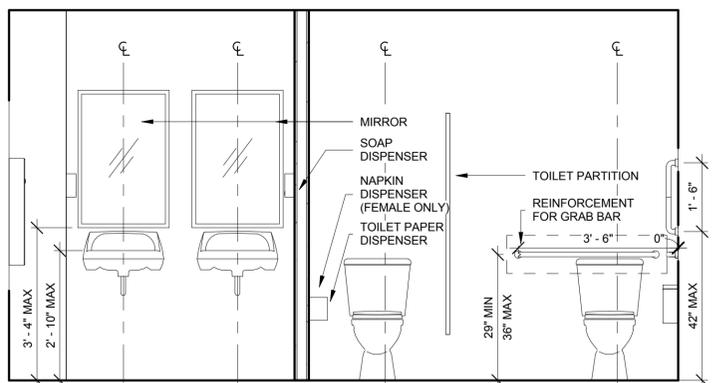
B1 ENLARGED RESTROOM 1ST FLOOR
A-512 1/2" = 1'-0"



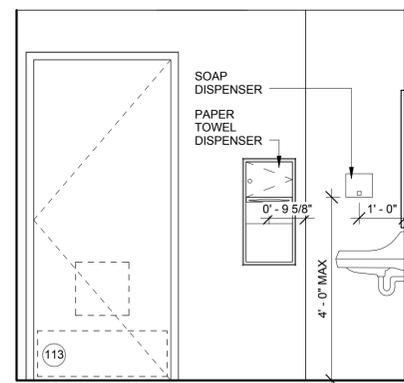
A2 CELLAR RESTROOM - ELEVATION A FEMALE
A-512 1/2" = 1'-0"



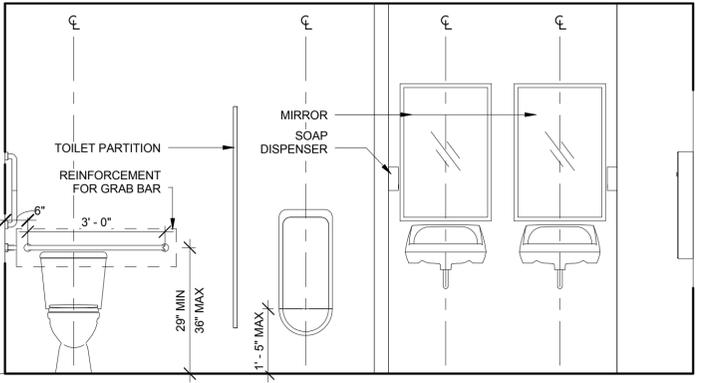
A4 CELLAR RESTROOM - ELEVATION B
A-512 1/2" = 1'-0"



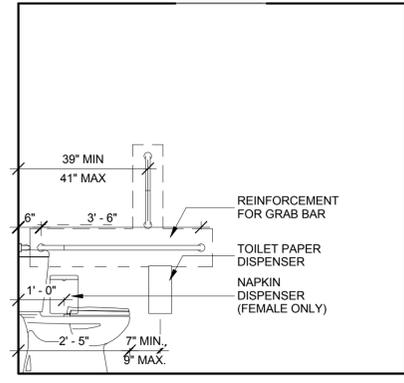
B2 FIRST FLOOR RESTROOM - ELEVATION A FEMALE
A-512 1/2" = 1'-0"



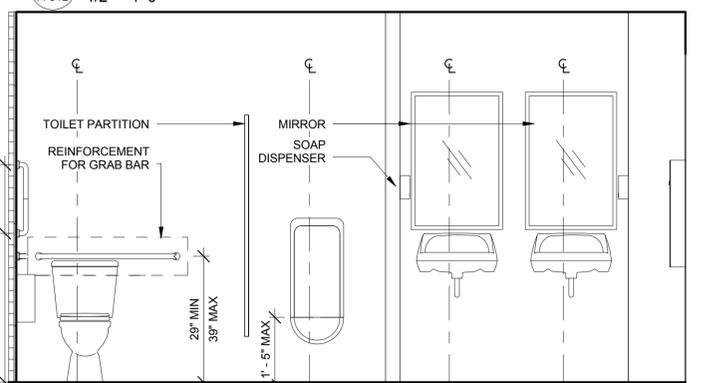
B4 FIRST FLOOR RESTROOM - ELEVATION B
A-512 1/2" = 1'-0"



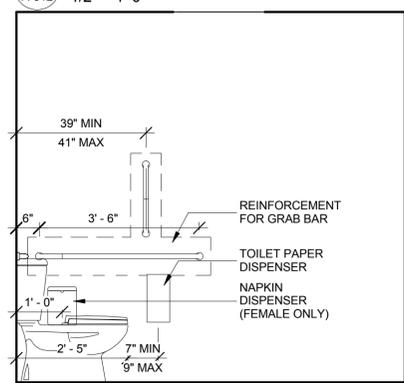
A3 CELLAR RESTROOM - ELEVATION A MALE
A-512 1/2" = 1'-0"



A5 CELLAR RESTROOM ELEVATION C
A-512 1/2" = 1'-0"



B3 FIRST FLOOR RESTROOM - ELEVATION A MALE
A-512 1/2" = 1'-0"



B5 FIRST FLOOR RESTROOM - ELEVATION C
A-512 1/2" = 1'-0"

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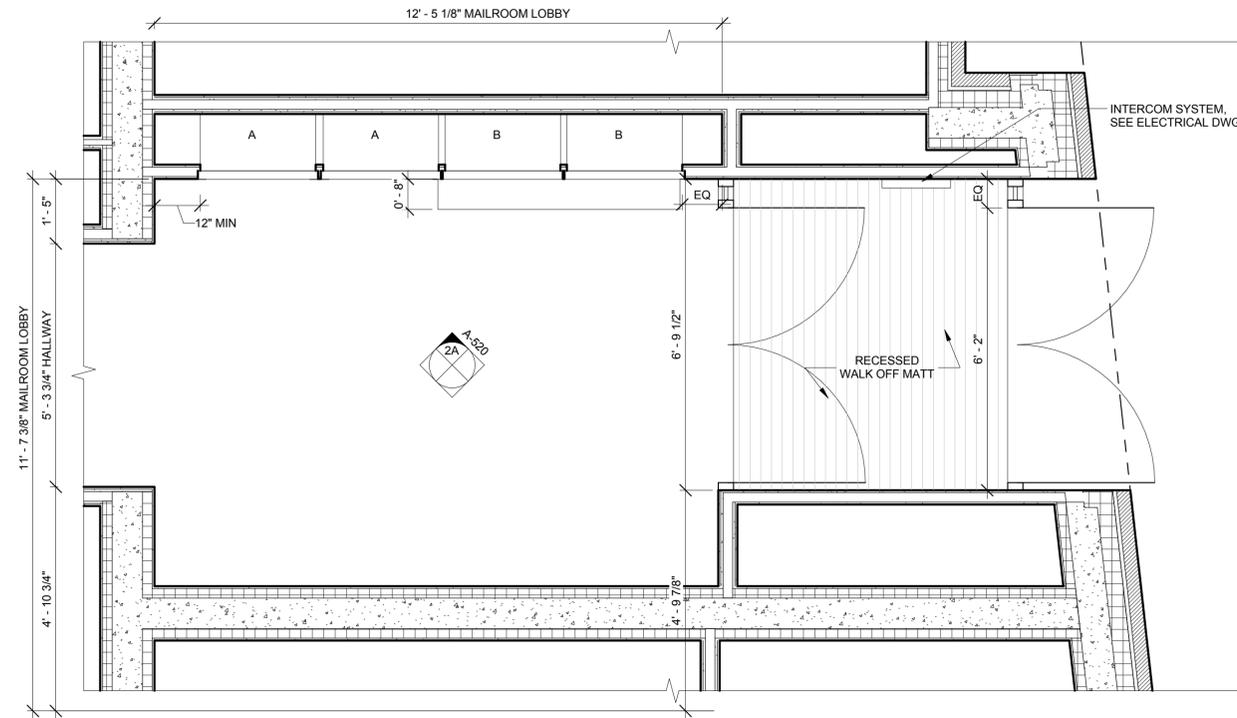
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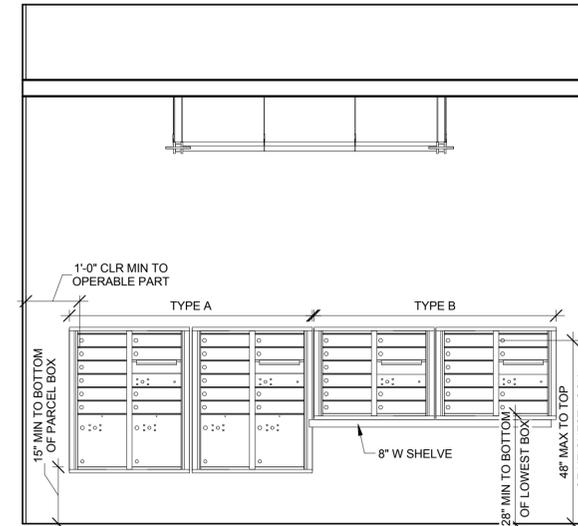
PUBLIC RESTROOM ELEVATIONS

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Sheet No.: **A-512.00**
 of



1A ENTRANCE MAILROOM LOBBY PLAN
A-520 1/2" = 1'-0"



2A MAILROOM LOBBY ELEVATION
A-520 1/2" = 1'-0"

3365 THIRD AVE

3365 Third Ave Bronx, NY 10456

Owner
3365 THIRD AVE OWNER, LLC
1605 Dr. Martin Luther King Jr. Blvd.
Bronx, NY 10453

Architect
CURTIS + GINSBERG ARCHITECTS LLP

299 Broadway, Suite 1107
New York, New York 10007

Structural Engineer
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15 Reservoir Road
White Plains, New York 10603

MEP
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224 West 29th Street, 4th Floor
New York, New York 10001

BPP
SULLIVAN GROUP DESIGN, LLC
109 West 27th Street
New York, NY 10001

STEVEN WINTERS ASSOCIATES, INC
307 Seventh Ave, Suite 1701
New York, NY 10001

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LOBBY ELEVATIONS



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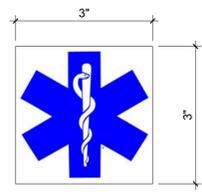
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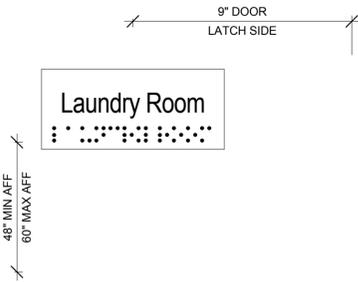
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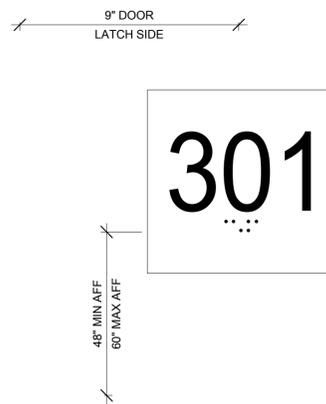
NOTE:
PER BC 3002.4 "STAR OF LIFE" TO BE
INSTALLED ON BOTH SIDES OF THE
JAMBS OF HOISTWA ENTRANCE ON
ALL FLOORS.

A1 INTERNATIONAL SYMBOL FOR EMERGENCY MEDICAL SERVICES
A-540 6" = 1'-0"



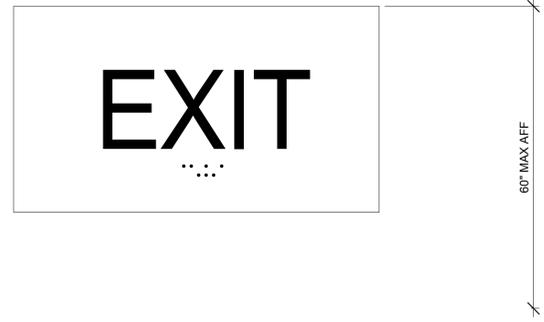
NOTE:
REFER TO FLOOR PLANS FOR ROOM NAMES

A2 TYPICAL UTILITY ROOM SIGN
A-540 6" = 1'-0"



NOTE:
APARTMENT NUMBERING NUMERICAL

A3 TYPICAL APARTMENT SIGN
A-540 6" = 1'-0"



NOTE:
GRAPHICS AND LETTERING TO COMPLY WITH BC 1026.43 AND ANSI

A4 TACTILE EXIT SIGN
A-540 6" = 1'-0"

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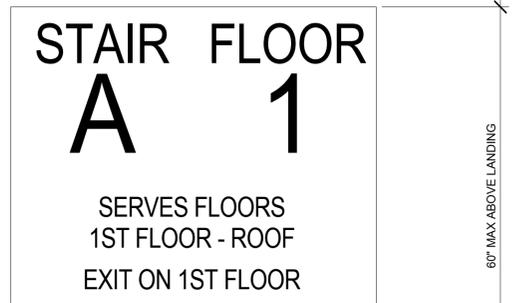
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109 West 27th Street
New York, NY 10001

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307 Seventh Ave, Suite 1701
New York, NY 10001



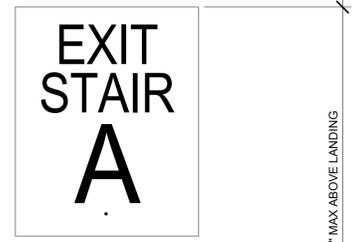
55" AFF

B1 ACCESSIBLE PUBLIC UNISEX TOILET SIGN
A-540 6" = 1'-0"



NOTE:
REFER TO PLANS FOR LOCATIONS OF STAIRS. PROVIDE SIGNAGE FOR EACH
STAIR DESIGNATION

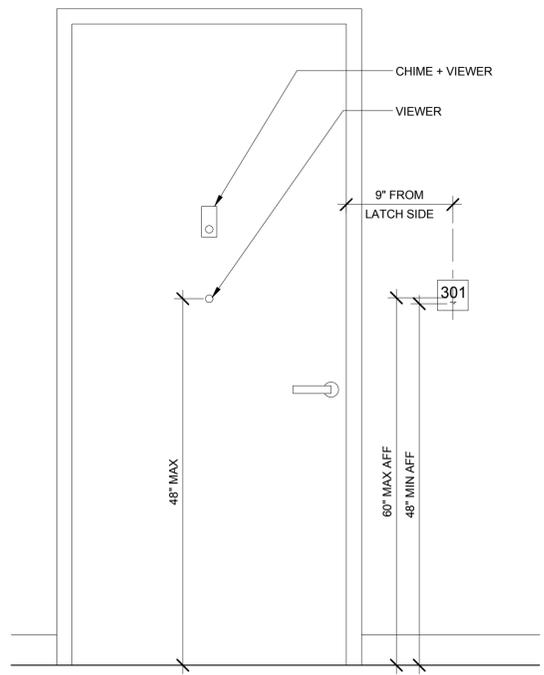
B2 STAIRWAY FLOOR NUMBER AND IDENTIFICATION SIGNS
A-540 6" = 1'-0"



CORRIDOR SIDE OF DOOR

NOTE:
REFER TO PLANS FOR LOCATIONS OF STAIRS. PROVIDE SIGNAGE
FOR EACH STAIR DESIGNATION

B3 CORRIDOR IDENTIFICATION SIGN
A-540 6" = 1'-0"



C4 APARTMENT ENTRY SIGNAGE
A-540 1" = 1'-0"

| SIGNAGE | SIGNAGE |
|--------------------------|---------------------------|
| CELLAR | FLOOR 2 |
| COMPACTOR ROOM | COMMUNITY ROOM |
| ELECTRICAL ROOM | LAUNDRY ROOM |
| WATER PUMP ROOM | RESTROOM |
| GAS METER ROOM | APARTMENTS B,C,D,E |
| DETENTION TANK | STAIR A, B |
| PUBLIC TOILET | ELEVATOR A |
| COMMUNITY FACILITY | TRASH ROOM |
| IT CLOSET | TERRACE |
| ELEVATOR A, B | FLOOR 3-6 |
| STAIR A, C, D | APARTMENTS A, B, C, D, E, |
| ELEVATOR CONTROL ROOM | STAIR A, B |
| STORAGE | ELEVATOR A, |
| JANITOR'S CLOSET | TRASH ROOM |
| FLOOR 1 | JANITOR'S CLOSET |
| BIKE ROOM | FLOOR 7-8 |
| COMMUNITY FACILITY | APARTMENTS A, B, C |
| PUBLIC TOILET | STAIR A, B |
| TRASH ROOM | ELEVATOR A |
| STAIR A, B, C, D | TRASH ROOM |
| STORAGE | JANITOR'S CLOSET |
| JANITOR'S CLOSET | R |
| ELEVATOR A, B | ROOF |
| RESIDENTIAL LOBBY | HOT WATER BOILER |
| COMMUNITY FACILITY LOBBY | STAIR A, B |
| | ELEVATOR CONTROL ROOM |

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INTERIOR SIGNAGE



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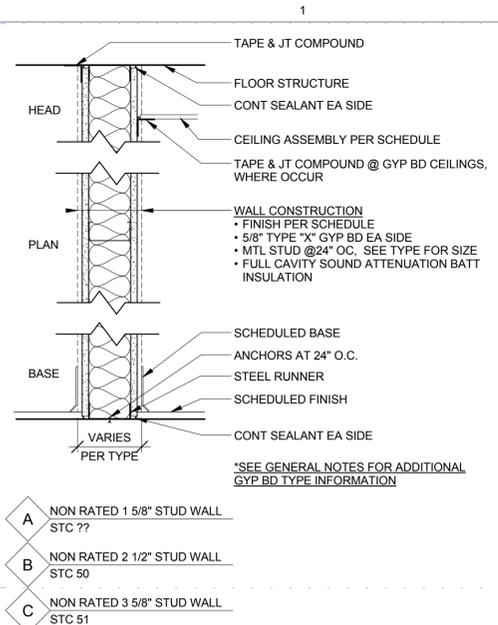
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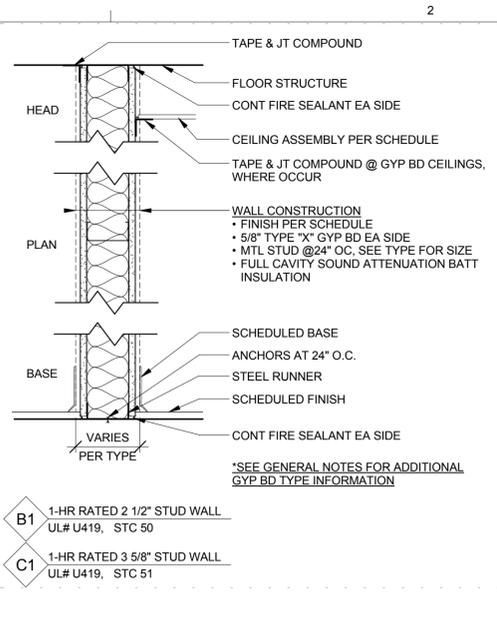
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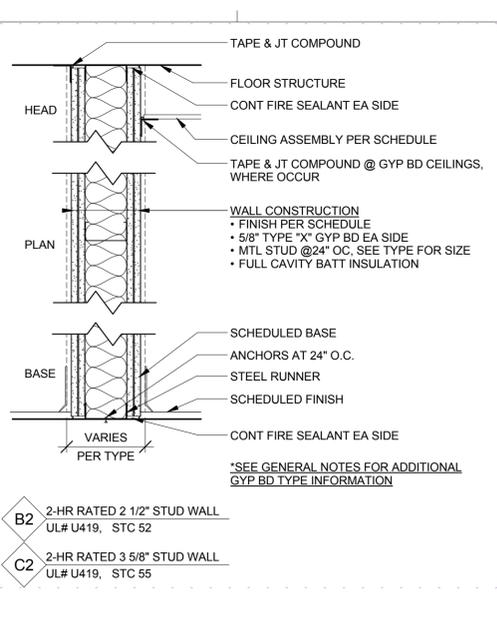
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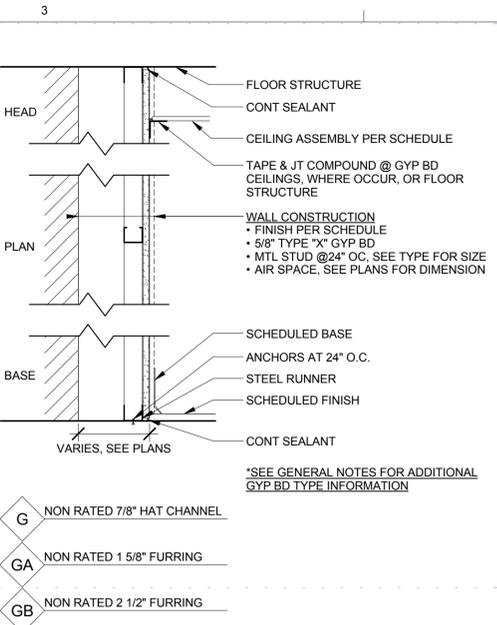
- A** NON RATED 1 5/8" STUD WALL
STC ??
- B** NON RATED 2 1/2" STUD WALL
STC 50
- C** NON RATED 3 5/8" STUD WALL
STC 51



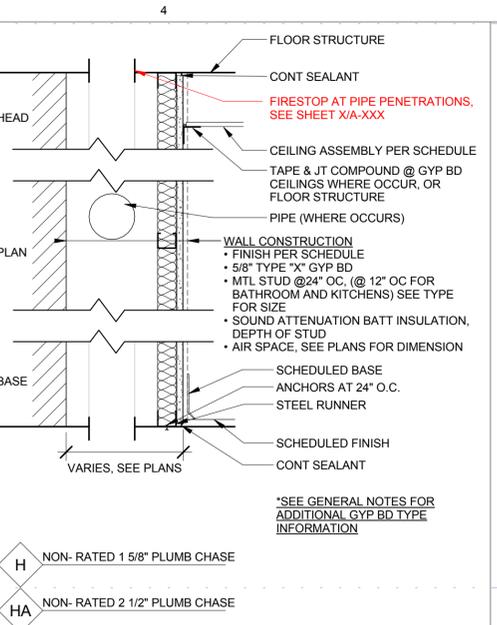
- B1** 1-HR RATED 2 1/2" STUD WALL
UL# U419, STC 50
- C1** 1-HR RATED 3 5/8" STUD WALL
UL# U419, STC 51



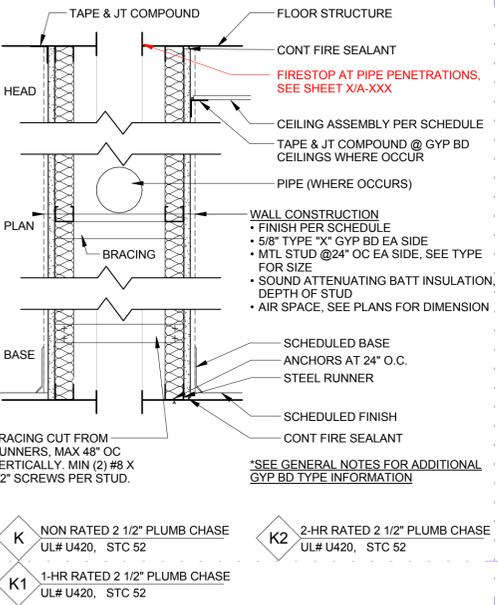
- B2** 2-HR RATED 2 1/2" STUD WALL
UL# U419, STC 52
- C2** 2-HR RATED 3 5/8" STUD WALL
UL# U419, STC 55



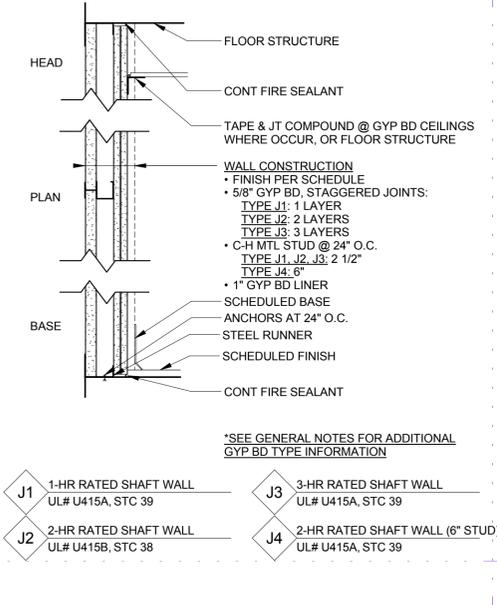
- G** NON RATED 7/8" HAT CHANNEL
- GA** NON RATED 1 5/8" FURRING
- GB** NON RATED 2 1/2" FURRING



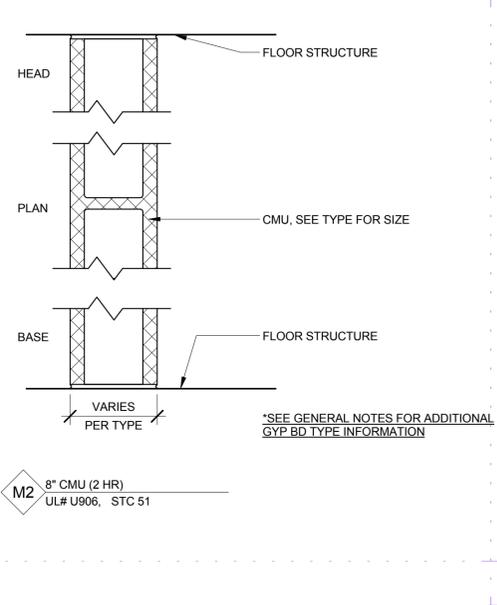
- H** NON-RATED 1 5/8" PLUMB CHASE
- HA** NON-RATED 2 1/2" PLUMB CHASE



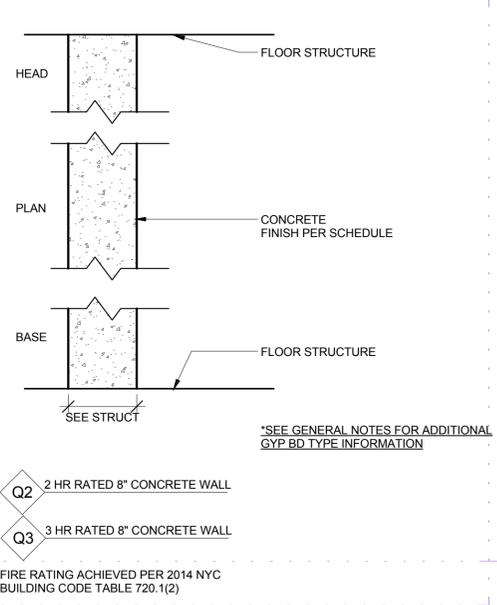
- K** NON RATED 2 1/2" PLUMB CHASE
UL# U420, STC 52
- K1** 1-HR RATED 2 1/2" PLUMB CHASE
UL# U420, STC 52
- K2** 2-HR RATED 2 1/2" PLUMB CHASE
UL# U420, STC 52



- J1** 1-HR RATED SHAFT WALL
UL# U415A, STC 39
- J2** 2-HR RATED SHAFT WALL
UL# U415B, STC 38
- J3** 3-HR RATED SHAFT WALL
UL# U415A, STC 39
- J4** 2-HR RATED SHAFT WALL (6" STUD)
UL# U415A, STC 39

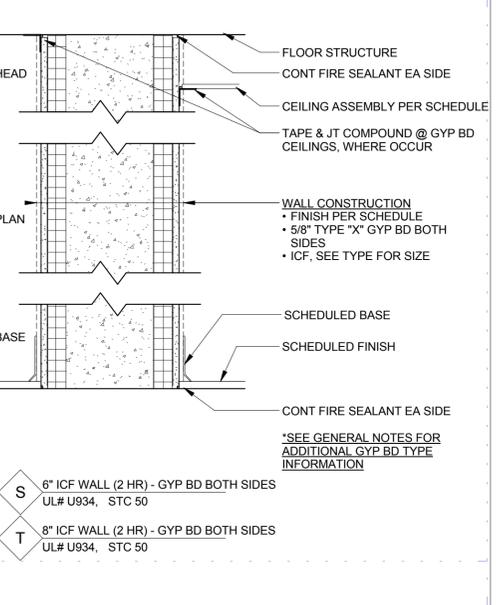


- M2** 8" CMU (2 HR)
UL# U906, STC 51



- Q2** 2 HR RATED 8" CONCRETE WALL
- Q3** 3 HR RATED 8" CONCRETE WALL

FIRE RATING ACHIEVED PER 2014 NYC BUILDING CODE TABLE 720.1(2)



- S** 6" ICF WALL (2 HR) - GYP BD BOTH SIDES
UL# U934, STC 50
- T** 8" ICF WALL (2 HR) - GYP BD BOTH SIDES
UL# U934, STC 50



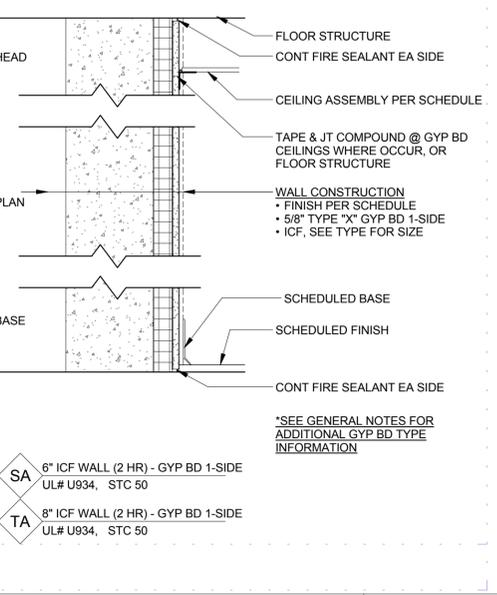
- SA** 6" ICF WALL (2 HR) - GYP BD 1-SIDE
UL# U934, STC 50
- TA** 8" ICF WALL (2 HR) - GYP BD 1-SIDE
UL# U934, STC 50



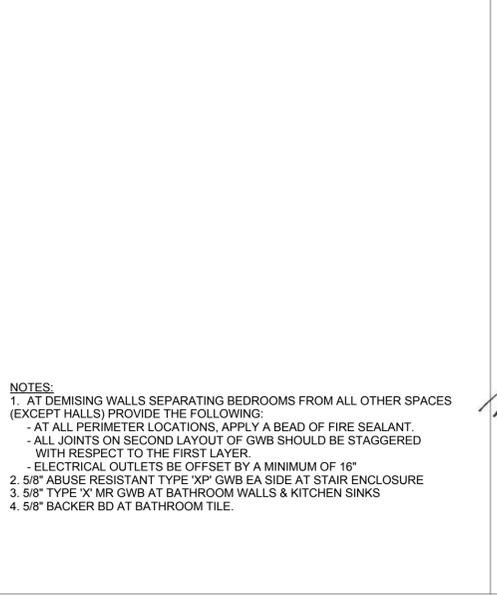
- SA** 6" ICF WALL (2 HR) - GYP BD 1-SIDE
UL# U934, STC 50
- TA** 8" ICF WALL (2 HR) - GYP BD 1-SIDE
UL# U934, STC 50



- SA** 6" ICF WALL (2 HR) - GYP BD 1-SIDE
UL# U934, STC 50
- TA** 8" ICF WALL (2 HR) - GYP BD 1-SIDE
UL# U934, STC 50



- SA** 6" ICF WALL (2 HR) - GYP BD 1-SIDE
UL# U934, STC 50
- TA** 8" ICF WALL (2 HR) - GYP BD 1-SIDE
UL# U934, STC 50



- SA** 6" ICF WALL (2 HR) - GYP BD 1-SIDE
UL# U934, STC 50
- TA** 8" ICF WALL (2 HR) - GYP BD 1-SIDE
UL# U934, STC 50

NOTES:
 1. AT DEMISING WALLS SEPARATING BEDROOMS FROM ALL OTHER SPACES (EXCEPT HALLS) PROVIDE THE FOLLOWING:
 - AT ALL PERIMETER LOCATIONS, APPLY A BEAD OF FIRE SEALANT.
 - ALL JOINTS ON SECOND LAYOUT OF GWB SHOULD BE STAGGERED WITH RESPECT TO THE FIRST LAYER.
 - ELECTRICAL OUTLETS BE OFFSET BY A MINIMUM OF 16"
 2. 5/8" ABUSE RESISTANT TYPE "XP" GWB EA SIDE AT STAIR ENCLOSURE
 3. 5/8" TYPE "X" MR GWB AT BATHROOM WALLS & KITCHEN SINKS
 4. 5/8" BACKER BD AT BATHROOM TILE.

3365 THIRD AVE

3365 Third Ave Bronx, NY 10456

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PARTITION TYPES

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299 Broadway, Suite 1107
New York, New York 10007

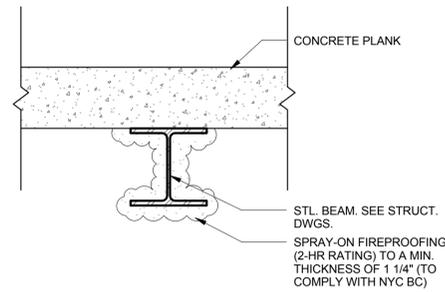
Structural Engineer
DE NARDIS ENGINEERING, LLC
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White Plains, New York 10603

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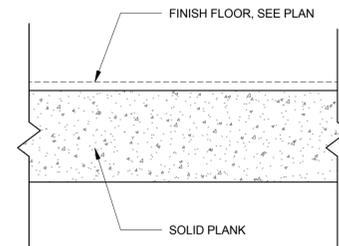
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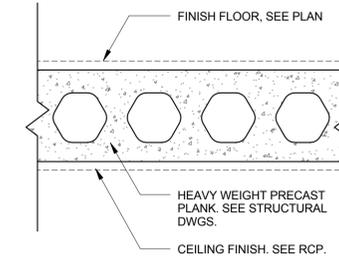
No. Date Revision



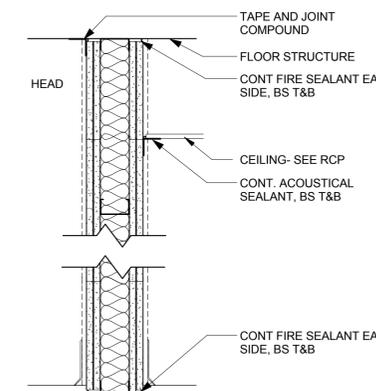
3 STRAY ON FIREPROOFING AT BEAM
A-601 1" = 1'-0"



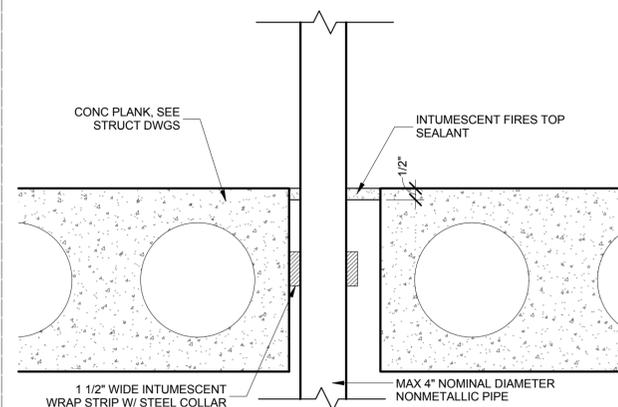
1 COMPACTOR PLANK (3 HR)
A-601 1 1/2" = 1'-0"



2 TYPICAL PLANK (2 HOURS)
A-601 1 1/2" = 1'-0"



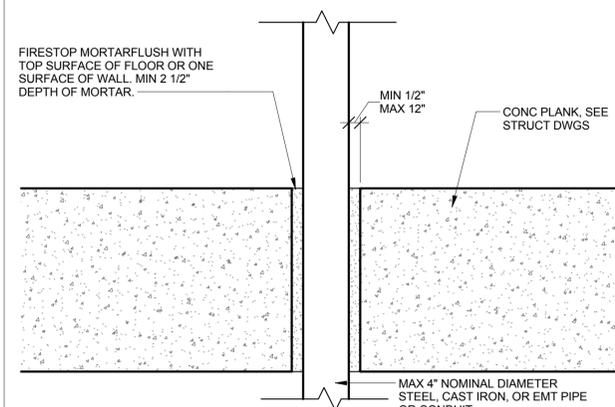
4 DEMISING WALL FIRESTOPPING
A-601 1 1/2" = 1'-0"



NOTES:
1. MAX 2-HR RATED FLOOR ASSEMBLY

U.L. ASSEMBLY
F-A-2138

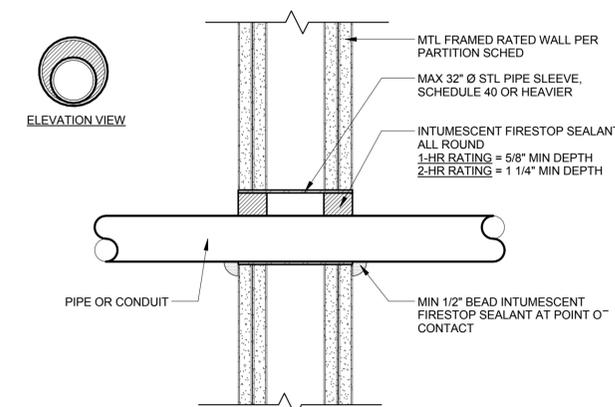
5 PIPE PENETRATION THROUGH CONC FLOOR (2 HOUR)
A-601 3" = 1'-0"



NOTES:
1. MAX 2-HR RATED FLOOR ASSEMBLY
2. FOR GROUP OF MULTIPLE PIPES, MAX SIZE OF OPENING IS 66" X 8"
3. FORMING NOT SHOWN. USE RIGID BOARD MATERIAL TO SUPPORT FIRESTOP MORTAR DURING INITIAL CURE.
4. CONDITION AT CONCRETE OR CMU WALL IS SIMILAR.

U.L. ASSEMBLY
C-BJ-1049

C3 PIPE PENETRATION THROUGH CONC FLOOR/WALL
A-601 3" = 1'-0"



NOTES:
1. FOR PENETRATIONS THROUGH CONC OR CMU WALL, SEE SIM

U.L. ASSEMBLY
W-L-1164

C4 DUCT PENETRATION AT RATED WALL
A-601 3" = 1'-0"

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B TYPICAL APARTMENT NOTES

- UNUNITED VENTILATION DUCTWORK**
 - VENTILATION DUCTS TO BE SEALED ADEQUATELY TO REDUCE LEAKAGE TO MAXIMUM 5 CFM PER REGISTER.
 - LEAKAGE TO BE SAMPLE TESTED IN FIELD BY ENERGY CONSULTANT
- DOOR LATCH HOLE**
 - STAGE OF CONSTRUCTION FINISHES
 - IF A BLOWER TEST INDICATES SIGNIFICANT LEAKAGE AT THIS LOCATION, SPRAY ONE PART POLYURETHANE FOAM ABOVE AND BELOW LATCH HOLE IN DOOR FRAME CAVITY.
 - IF NECESSARY, CUT AWAY ANY FOAM THAT EXPANDS INTO OPERATING AREA OF THE LATCH HOLE.
- ELECTRICAL PANEL**
 - INSTALLED CLOSED CELL NEOPRENE FOAM TAPE PANEL AND DRYWALL AND AROUND ACCESS DOOR.
- PLUMBING/SPRINKLER PIPE PENETRATION**
 - STAGE OF CONSTRUCTION, AFTER DRYWALL BEFORE INTERIOR FINISHES.
 - BEFORE INSTALLATION OF ESCUTCHEON FILL, ROUGH OPENING WITH GYPSUM COMPOUND.
 - SEAL ALL PENETRATION THROUGH SLAB, SUBFLOOR AND FLOOR PLANK WITH CONTINUOUS BEAD OF SILICONE CAULKING OR ONE COMPONENT POLYURETHANE FOAM.
- ROUGH OPENING AROUND WINDOW FRAME**
 - STAGE OF CONSTRUCTION, WINDOW INSTALLATION
 - SEAL ROUGH OPENING WITH ONE CONTINUOUS BEAD OF ONE-COMPONENT (LOW-EXPANSION) POLYURETHANE FOAM. DO NOT FILL ENTIRE GAP BETWEEN MASONRY AND WINDOW FRAME.
 - IF NECESSARY, INSERT BACKER ROD INTO GAP.
- INTERIOR WALL AT DEMISING / EXTERIOR WALL**
 - STAGE OF CONSTRUCTION: DURING DRYWALL INSTALLATION
 - WHEN FRAMING PARTITION WALL, LEAVE SPACE SO THAT PERIMETER DRYWALL IS CONTINUOUS.
 - DRYWALL SEQUENCE MUST TAKE INTO ACCOUNT SEALING THE GAP BETWEEN THE PERIMETER DRYWALL AND THE CONCRETE PLANK/SLAB CEILING AND THE FLOOR BELOW THE PARTY WALL IS INSTALLED. USE A CONTINUOUS BEAD OF SILICONE CAULK OR ONE COMPONENT POLYURETHANE FOAM TO SEAL THE CEILING AND FLOOR PLANK WHERE THEY MEET THE DRYWALL AT ALL EXTERIOR PARTY WALLS.
 - ALL NOTCHES IN DRYWALL MADE FOR ELEC. CABLE, PLUMBING BRACES, ETC. SHOULD BE SEALED WITH ONE COMPONENT POLYURETHANE FOAM.
 - WHEN PARTITION LAYOUT IS CHALKED OUT, LOCATIONS OF DIFFERENT FRAMING AND SEALING STRATEGIES MUST BE INDICATED. (REFER TO DIAGRAM BELOW)

AT INTERSECTING ICF WALLS, REMOVE A SECTION OF THE OUTER WALL EQUAL TO THE CONCRETE CORE WIDTH

APPLY BEAD OF CAULK OR FOAM ALONG THE CEILING AND FLOOR PLANK WHERE THEY MEET THE DRYWALL AT ALL EXTERIOR WALL

HORIZONTAL REINFORCEMENT (SEE STRUCTURAL DWGS.)

VERTICAL REINFORCEMENT (SEE STRUCTURAL DWGS.)

GYPSUM BOARD, TYP

PLAN

PLAN

SECTION

COORDINATE W/ GYP. BD. INSTALLATION SO THAT GAP BETWEEN GYP. BD. AND CONCRETE PLANK CAN BE COMPLETELY SEALED BY SELF-LEVELING COMPOUND.

APPLY BEAD OF CAULK OR FOAM AT PENETRATION AND SLAB/SUBFLOOR AND DRYWALL

B TYPICAL APARTMENT NOTES

- HEAT PIPE PENETRATION**
 - STAGE OF CONSTRUCTION: ANYTIME AFTER HOT WATER BASEBOARD IS INSTALLED.
 - USE ONE COMPONENT POLYURETHANE FOAM OR OTHER SEALANT PRODUCT RATED FOR 200 DEGREES FAHRENHEIT.
- DEMISING WALL BETWEEN UNITS**
 - STAGE OF CONSTRUCTION: DURING DRYWALL INSTALLATION.
 - WHEN FRAMING, LEAVE SPACE FOR DEMISING WALL DRYWALL TO BE INSERTED.
 - DRYWALL SEQUENCE MUST TAKE INTO ACCOUNT SEALING THE VERTICAL JOINT OF THE DEMISING WALL DRYWALL TO THE EXTERIOR WALL. USE A ONE COMPONENT POLYURETHANE FOAM.
 - DRYWALL SEQUENCE MUST ALSO TAKE INTO ACCOUNT SEALING THE PORTION OF THE DEMISING DRYWALL BEHIND THE PERIMETER DRYWALL. USE A CONTINUOUS BEAD OF SILICONE CAULK OR ONE COMPONENT POLYURETHANE FOAM TO SEAL THE INSET PORTION OF THE DRYWALL TO THE CONCRETE PLANK/SLAB AT THE CEILING AND FLOOR.
 - ALL NOTCHES IN DRYWALL MADE FOR ELEC. CABLE, PLUMBING BRACES, ETC. SHOULD BE SEALED WITH ONE COMPONENT POLYURETHANE FOAM.
 - TO BE INSPECTED PRIOR TO COMPLETION OF THE PERIMETER WALL. (REFER TO DIAGRAM BELOW)
- APARTMENT AIR SEALING VERIFICATION**
 - IN ORDER TO QUANTIFY APARTMENT AIR TIGHTNESS AND IDENTIFY OVERLOOKED AIR LEAKAGE LOCATIONS, TESTING IS REQUIRED AT TWO STAGES OF CONSTRUCTION. FIRST, ONE TO TWO APARTMENTS SHOULD BE TESTED NEAR COMPLETION. PRIOR TO THE TEMPORARY CERTIFICATE OF OCCUPANCY. A SECOND TEST SHOULD BE DONE WITH A RANDOM SAMPLE OF 10% OF THE APARTMENTS.
- MEDICINE CABINET**
 - INSTALLED CLOSED CELL NEOPRENE FOAM TAPE PANEL AND DRYWALL AND AROUND OPENING. MAKE SURE DOORS ARE PROPERLY GASKETED.

USE 1 COMPONENT FOAM ALONG VERTICAL JOINTS

GYP. BD OR SHEATHING

GYP. BD.

APPLY A BEAD OF CAULK OR FOAM ALONG THE CEILING AND FLOOR PLANK, WHERE THEY MEET THE DRYWALL AT ALL EXTERIOR PARTY WALLS INCLUDING THE SHADING AREA

APT.

APT.

APT.

APT.

PLAN

PLAN

C BUILDING-WIDE NOTES

- INFILTRATION RATE**
 - MAXIMUM AIR INFILTRATION RATE FOR WINDOW SHALL BE .20 CFM/FT² PER AAMA/WDMA/CSA101/1.S.2/A440 or NFRC 400
 - MAXIMUM AIR INFILTRATION RATE FOR SWING DOORS SHALL BE .20 CFM/FT² PER AAMA/WDMA/CSA101/1.S.2/A440 or NFRC 400
 - MAXIMUM AIR INFILTRATION RATE FOR STOREFRONT GLAZING SHALL BE .06 CFM/FT² PER ASTM E 283 AT 1.57 PSF
 - MAXIMUM AIR INFILTRATION RATE FOR COMMERCIAL GLAZED SWING ENTRANCE DOORS SHALL BE .100E CFM/FT² PER NFRC 400 OR ASTM E 283 AT 1.57 PSF.
 - DOORS AND ACCESS OPENING TO SHAFTS, CHUTES, STAIRWAYS AND ELEVATOR LOBBIES BE GASKETED, WEATHERSTRIPPED OR SEALED EXCEPT FOR THOSE COMPLYING WITH UL 1784
 - AIR INTAKES, EXHAUST OPENING IN STAIRWAYS AND SHAFTS SHALL BE GASKETED, WEATHERSTRIPPED OR SEALED.
- ROOF PENETRATION WITH CURB SEALING**
 - STAGE OF CONSTRUCTION: BEFORE INSTALLATION OF ROOF CURBS
 - USE ROOF #8 LOW-VOC MASTIC OR EQUIVALENT AND INSTALL ACCORDING TO MANUFACTURER'S REQUIREMENT. DO NOT APPLY MASTIC IF AMBIENT TEMPERATURE IS BELOW 38 DEGREES.
- TRANSVERSE JOINT SEALING**
 - STAGE OF CONSTRUCTION: DURING DUCT CONSTRUCTION
 - RESPONSIBLE TRADE: MECHANICAL CONTRACTOR
 - USE ROD #8 LOW-VOC MASTIC OR EQUIVALENT AND INSTALL ACCORDING TO MANUFACTURER'S REQUIREMENT. DO NOT APPLY MASTIC IF TEMPERATURE IS BELOW 38 DEGREES.
 - APPLY MASTIC CONTINUOUSLY AT ALL TRANSVERSE JOINTS.
 - APPLY MASTIC TO THE EXPOSED PART OF THE MALE FITTING AFTER THE FITTING COLLAR OR CRIMPED END IS FULLY STARTED INTO THE DUCT, BUT BEFORE IT IS PUSHED TO THE BEAD STOP.
 - ONCE APPLIED, PUSH FITTING TO THE BEAD STOP. THEN MECHANICALLY FASTEN THE JOINT WITH SHEET METAL SCREWS OR RIVETS.
 - NEXT APPLY MASTIC TO THE OUTSIDE OF JOINT IN MINIMUM 2" WIDE BAND COVERING THE SCREWS OR RIVETS AND JOINT GAP.
- TAKE-OFF DUCT SEALING**
 - STAGE OF CONSTRUCTION: DURING DUCT CONSTRUCTION
 - RESPONSIBLE TRADE: MECHANICAL CONTRACTOR
 - FIRESTOP ALL PENETRATIONS IN PLANK AND CMU
 - USE ROOMTIC LOW-VOC MASTIC OR EQUIVALENT AND INSTALL ACCORDING TO MANUFACTURER'S REQUIREMENT. DO NOT APPLY MASTIC IF TEMPERATURE IS BELOW 33 DEGREES.
 - APPLY MASTIC CONTINUOUSLY AROUND ALL JOINTS BETWEEN TAKE-OFF DUCTS AND SHAFTS.
 - APPLY MASTIC TO THE OUTSIDE OF JOINT IN MINIMUM 2" WIDE BAND COVERING THE SCREWS OR RIVETS AND JOINT GAP.
- OUTLET/ELECTRICAL BOX-EXTERIOR AND DEMISING HALLS**
 - STAGE OF CONSTRUCTION: FINISHES
 - RESPONSIBLE TRADE: ELECTRICIAN
 - USE CARDINAL OUTLET COVERS INSTEAD OF CONVENTIONAL OUTLET COVERS
 - CAULK OUTLET PLATE TO SHEETROCK
 - NO OUTLETS WILL BE PLACED BACK TO BACK ON DEMISING WALLS.
 - SEAL SCREW HOLES AND UNUSED KNOCK-OUT WITH CLOSED CELL NEOPRENE FOAM TAPE.
 - SEAL WIRE PENETRATION WITH CONTINUOUS BEAD OF SILICONE CAULK.
 - AT DIFFUSERS & REGISTERS, PROVIDE GASKET AT DRYWALL ALTERNATIVELY, PROVIDE CONTINUOUS BEAD OF SILICONE CAULK BETWEEN REGISTER
- DRYWALL TO CONCRETE SLAB FLOOR CONNECTION**

EXTERIOR WALLS AND ALL INTERIOR PARTITIONS

 - STAGE OF CONSTRUCTION: DURING INSTALLATION OF SELF-LEVELING COMPOUND
 - COORDINATE WITH GYPSUM BOARD INSTALLATION SO THAT GAP BETWEEN GYPSUM BOARD AND CONCRETE PLAN CAN BE COMPLETELY SEALED BY SELF-LEVELING COMPOUND.
 - POUR DEPTH FOR SELF-LEVELING (DRYTECK OR APPROVED EQUAL) REFER TO MANUFACTURER'S RECOMMENDATION. (1/16" TO 1")
 - SEAL REMAINING GAP, IF ANY, WITH 1-COMPONENT POLYURETHANE FROM SEALANT OR SILICONE LATEX CAULK
 - IF GAP IS 3/8" OR LESS, USE CAULK
 - IF GAP IS GREATER THAN 3/8", USE FOAM.
- DRYWALL TO CONCRETE CEILING SLAB EXTERIOR WALLS AND INTERIOR PARTITIONS**
 - STAGE OF CONSTRUCTION: ANYTIME AFTER INSTALLATION OF SHEETROCK AND BEFORE INSTALLATION OF DROPPED CEILING.
 - APPLY A CONTINUOUS BEAD OF SILICONE CAULK (TREMCO OR EQUIVALENT) TO GAP BETWEEN SHEETROCK AND PLANK.
- HVAC ACCESS DOORS**
 - STAGE OF CONSTRUCTION: FINISHES
 - INSTALL SILICONE CAULK (TREMCO OR EQUIVALENT) TO SEAL PERIMETER OF FRAME TO DRYWALL.
 - ALTERNATIVE 1: SPECIFY AN ACCESS DOOR WITH CLOSED CELL NEOPRENE FOAM TAPE AROUND PERIMETER OF THE FRAME AGAINST WHICH THE HATCH CLOSSES.
 - ALTERNATIVE 2: ADD CLOSED CELL NEOPRENE FOAM TAPE TO AN ACCESS DOOR THAT IS NOT ORIGINALLY WEATHER STRIPPED.
- HVAC IN-UNIT DUCT LEAKAGE TESTING**
 - A ONE-POINT TEST SHALL BE COMPLETED FOR TOTAL DUCT LEAKAGE IN THE MAIN DUCT SHAFT USING A CALIBRATED FAN MEASURED UNDER DEPRESSURIZATION OR PRESSURIZATION IS ACCEPTABLE FOR THIS MEASUREMENT. TOTAL DUCT LEAKAGE FOR IN-UNIT SYSTEMS SHALL BE ≤ 8 CFM/25 PER 100 FT² CONDITIONED FLOOR AREA. FINAL TESTING OCCURS AFTER THE BUILDING IS COMPLETED: AIR HANDLERS, DUCTWORK, SUPPLY RETURN REGISTERS INSTALLED AND SEALED, AND INTERIOR DRYWALL FINISHED. NOTE THAT NON-DUCTED RETURNS MUST INCLUDE THE RETURN AIR PATHWAY IN THE PRESSURIZED TESTING OF THE DISTRIBUTION SYSTEM.
 - AS AN ALTERNATIVE TO TESTING AT BUILDING COMPLETION, TOTAL DUCT LEAKAGE MEASURED AT ROUGH- IN, SHALL BE ≤ 4 CFM/25 PER 100FT², WITH AIR HANDLER AND ALL DUCTWORK INSTALLED.
 - ENSURE DUCT SYSTEMS CAN BE PHYSICALLY SEALED AND PRESSURIZED FOR DUCT LEAKAGE TESTING. FOR VENTILATION SYSTEMS THAT UTILIZE AN INTAKE DUCT TO THE RETURN SIDE OF THE HVAC SYSTEM WITHOUT MOTORIZED DAMPERS, GC MUST PROVIDE INTERIOR OR EXTERIOR ACCESS TO THE INTAKE DUCT SO THAT IT CAN BE SEALED DURING TESTING.
 - AFTER EXTERIOR FAN START-UP, ALL FANS SHALL BE ADJUSTED TO ACHIEVE 0.2-0.3" WC STATIC PRESSURE AT GRILLE FARTHEST FROM THE FAN.

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| No. | Date | Revision |
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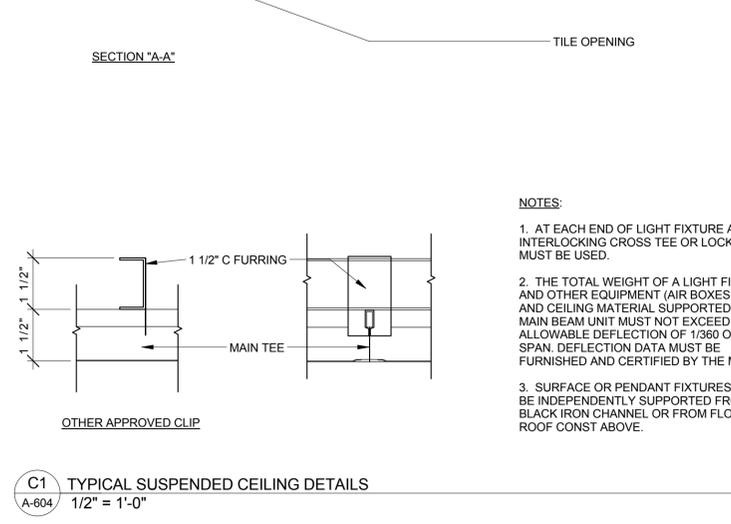
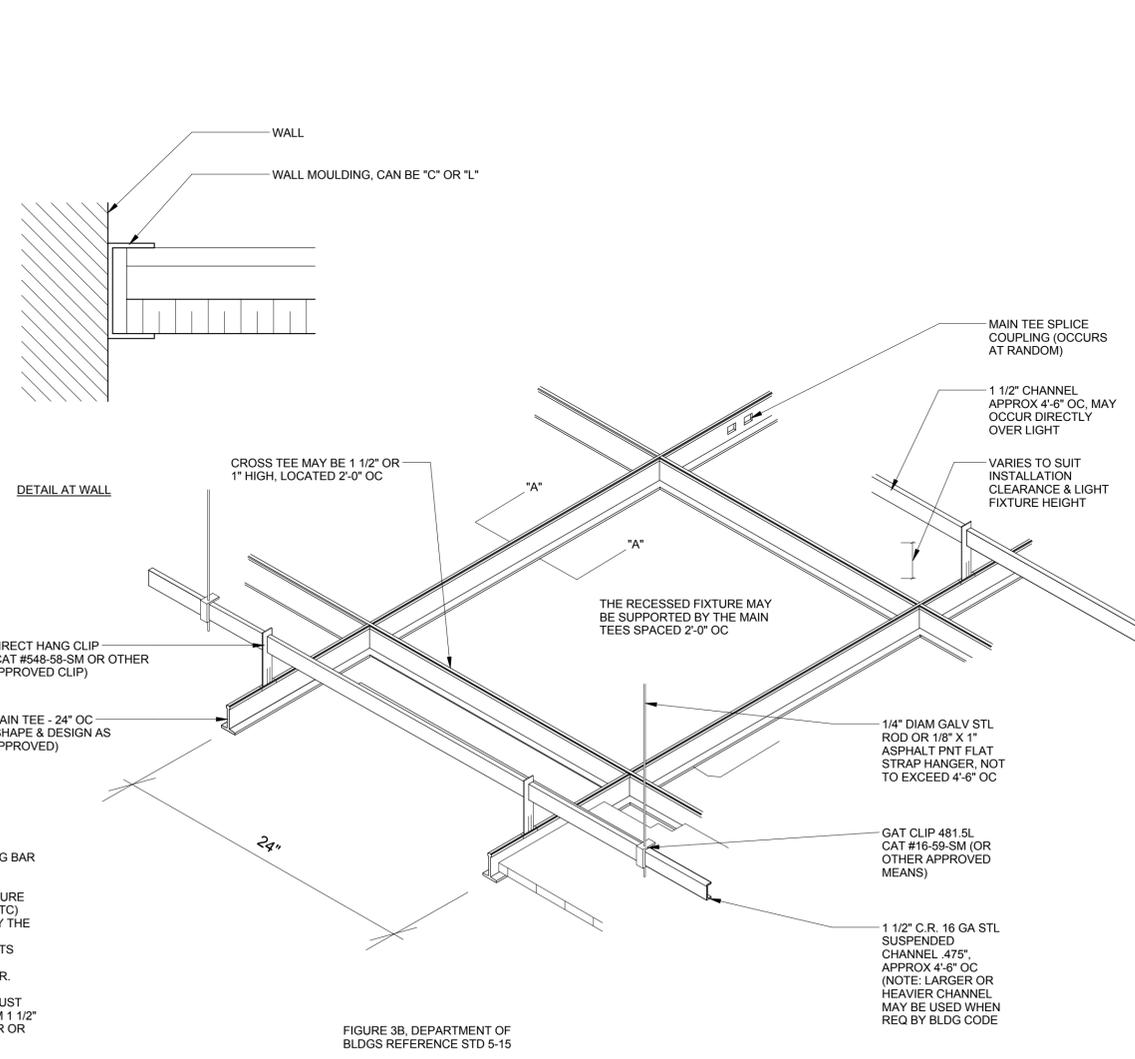
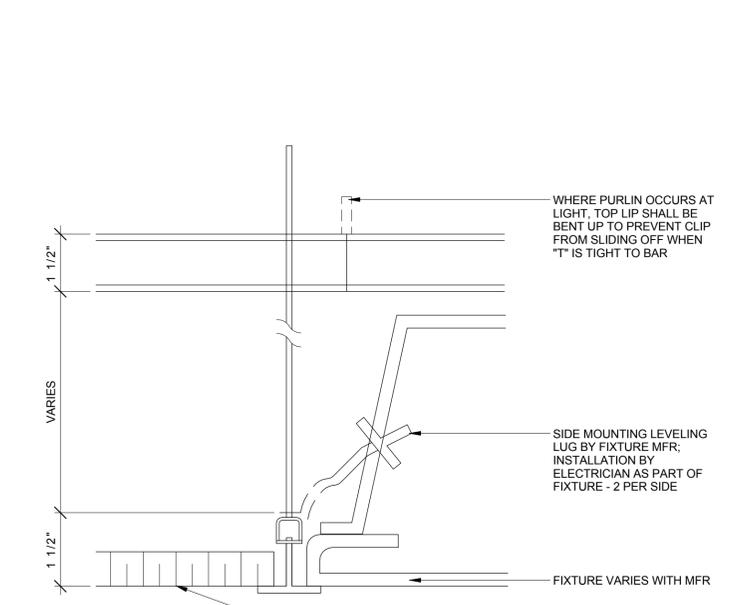
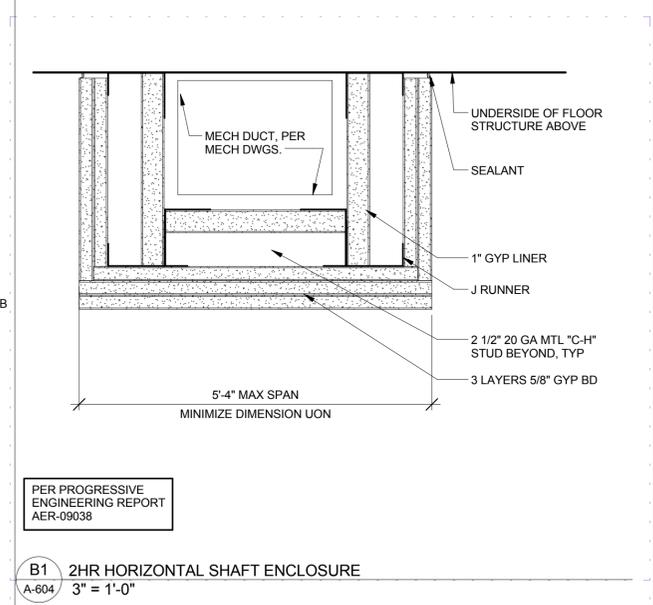
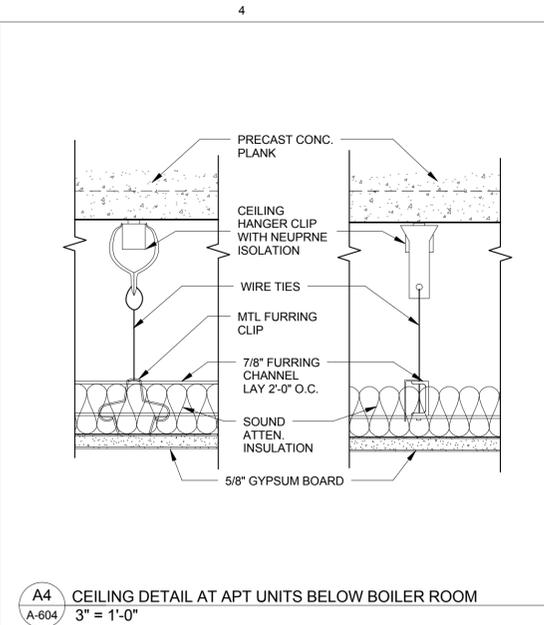
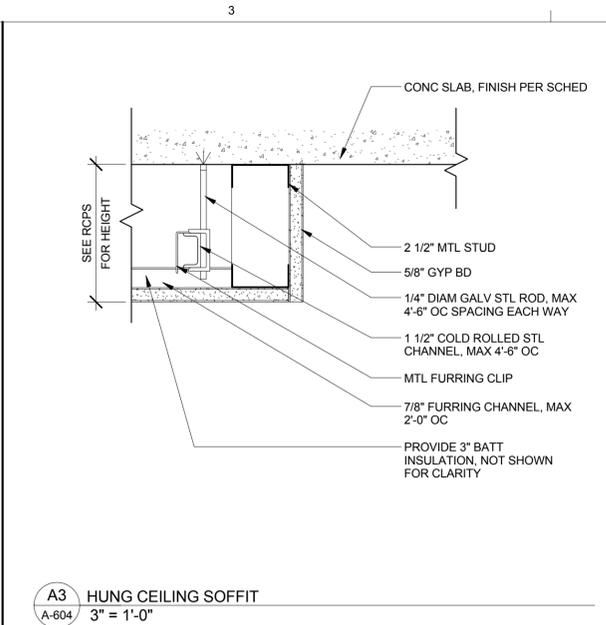
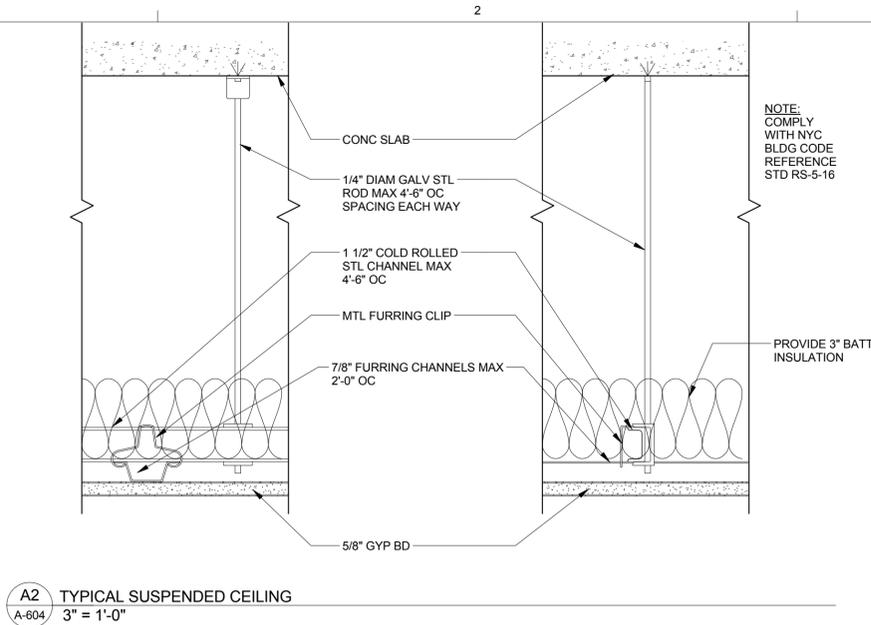
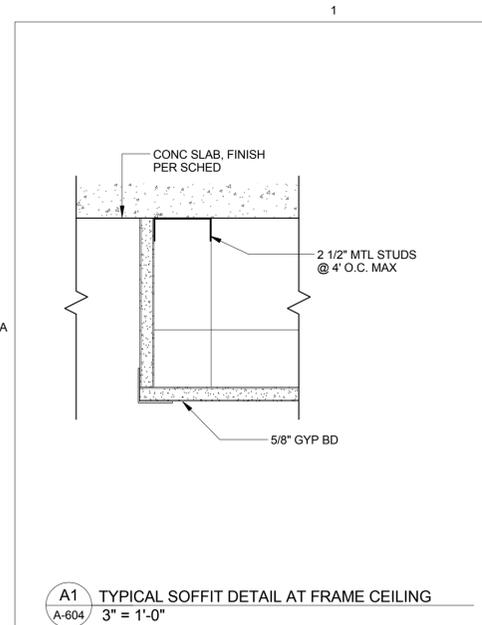
10/19/15 DOB SUBMISSION

| No. | Date | Submission |
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| | | |

Title:
AIR SEALING

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 Job No.: 1507
 Scale: As indicated
 Drawn By: CW/AG/EG
 Checked By: MEG

Sheet No.:
 ___ of **A-603.00**



NOTES:

- AT EACH END OF LIGHT FIXTURE AN INTERLOCKING CROSS TEE OR LOCKING BAR MUST BE USED.
- THE TOTAL WEIGHT OF A LIGHT FIXTURE AND OTHER EQUIPMENT (AIR BOXES, ETC) AND CEILING MATERIAL SUPPORTED BY THE MAIN BEAM UNIT MUST NOT EXCEED ALLOWABLE DEFLECTION OF 1/360 OF ITS SPAN. DEFLECTION DATA MUST BE FURNISHED AND CERTIFIED BY THE MFR.
- SURFACE OR PENDANT FIXTURES MUST BE INDEPENDENTLY SUPPORTED FROM 1 1/2" BLACK IRON CHANNEL OR FROM FLOOR OR ROOF CONST ABOVE.

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CEILING DETAILS



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Job No.: 1507
Scale:
Drawn By: CW/AG/EG
Checked By: MEG

Sheet No.: _____ of **A-604.00**

| TYPE/NO | FROM ROOM - ROOM | DOOR | | | | | FRAME | | F.P. RATING | HARDWARE | DETAILS HEAD/JAMB | DETAILS THRESHOLD | NOTES |
|---------|------------------------|--------|---------|-------|--------|-----------|-------|------|-------------|----------|-------------------|-------------------|-------|
| | | ELEV # | MAT'L | WIDTH | HEIGHT | THICKNESS | MAT'L | W/KD | | | | | |
| CELLAR | | | | | | | | | | | | | |
| 001 | STAIR C | 9 | GL/ALUM | 3'-0" | 7'-0" | 0'-1 3/4" | AL | W | 90 MIN | | 2/A612 | 3/A613 | FPSC |
| 002 | STAIR C | 5 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 2/A612 | 3/A613 | FPSC |
| 003 | WATER PUMP | 4 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 1/A612 | 4/A613 | FPSC |
| 004 | GAS METER | 4 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 1/A612 | 4/A613 | FPSC |
| 005 | ELECTRICAL | 4 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 1/A612 | 4/A613 | FPSC |
| 006 | COMPACTOR ROOM | 4 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 1/A612 | 4/A613 | FPSC |
| 007 | IT CLOSET | 4 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 1/A612 | 4/A613 | FPSC |
| 008 | STORAGE | 4 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 1/A612 | 4/A613 | FPSC |
| 009 | STAIR A | 5 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 2/A612 | 3/A613 | FPSC |
| 010 | ELEV. CONTROL ROOM | 4 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 1/A612 | 4/A613 | FPSC |
| 011 | WOMEN | 2 | HM | 3'-0" | 7'-0" | 0'-1 3/8" | WD | - | - | | 1/A612 | 6/A613 | |
| 012 | MEN | 2 | HM | 3'-0" | 7'-0" | 0'-1 3/8" | WD | - | - | | 1/A612 | 6/A613 | |
| 013 | JAN CL | 4 | HM | 3'-0" | 7'-0" | 0'-1 3/8" | WD | - | - | | 2/A612 | 4/A613 | |
| 014 | STORAGE | 4 | HM | 3'-0" | 7'-0" | 0'-1 3/8" | WD | - | - | | 1/A612 | 4/A613 | |
| 015 | STAIR D | 5 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 2/A612 | 3/A613 | FPSC |
| 016 | OUTDOOR AREA COURTYARD | 6 | GL/ALUM | 3'-0" | 7'-10" | 0'-1 3/4" | AL | W | - | | 7/A613 | 3/A611 | |
| 017 | OUTDOOR AREA COURTYARD | 6 | GL/ALUM | 3'-0" | 7'-10" | 0'-1 3/4" | AL | W | - | | 7/A613 | 3/A611 | |
| 018 | OUTDOOR AREA | 6 | GL/ALUM | 3'-0" | 8'-0" | 0'-1 3/4" | AL | W | - | | 7/A613 | 3/A611 | |

| ADJ. SITE | | | | | | | | | | | | | |
|-----------|------------------------------|---|---------|-------|-------|-----------|----|---|--------|--|--------|--------|-----------------|
| 050 | ADJ. SITE EGRESS | 4 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | - | | 2/A612 | 2/A611 | |
| 1ST FLOOR | | | | | | | | | | | | | |
| 101 | RESIDENTIAL EGRESS | 4 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | - | | 2/A612 | 2/A611 | |
| 102 | RESIDENTIAL LOBBY ENTRY | 7 | GL/ALUM | 6'-0" | 7'-0" | 0'-1 3/4" | AL | W | - | | 1/A611 | | (2) 3'-0" DOORS |
| 103 | COMMUNITY FACILITY ENTRY | 7 | GL/ALUM | 6'-0" | 7'-0" | 0'-1 3/4" | AL | W | - | | 1/A611 | | (2) 3'-0" DOORS |
| 104 | COMMUNITY EGRESS | 4 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | - | | 2/A612 | 2/A611 | |
| 105 | COMMUNITY FACILITY VESTIBULE | 7 | GL/ALUM | 6'-0" | 7'-0" | 0'-1 3/4" | AL | W | - | | 1/A611 | | (2) 3'-0" DOORS |
| 106 | RESIDENTIAL LOBBY ENTRY | 7 | GL/ALUM | 6'-0" | 7'-0" | 0'-1 3/4" | AL | W | - | | 1/A611 | | |
| 107 | STAIR C | 9 | GL/ALUM | 3'-0" | 7'-0" | 0'-1 3/4" | AL | W | 90 MIN | | 2/A612 | 3/A613 | FPSC |
| 108 | TRASH LIFT A | 4 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 1/A612 | 4/A613 | |
| 109 | TRASH LIFT B | 4 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 1/A612 | 4/A613 | |
| 110 | STORAGE | 4 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 1/A612 | 4/A613 | |
| 111 | STAIR B | 9 | GL/ALUM | 3'-0" | 7'-0" | 0'-1 3/4" | AL | W | 90 MIN | | 2/A612 | 3/A613 | FPSC |
| 112 | BIKE ROOM | 5 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | - | | 2/A612 | 3/A613 | |
| 113 | WOMEN | 2 | HM | 3'-0" | 7'-0" | 0'-1 3/8" | WD | - | - | | 1/A612 | 6/A613 | |
| 114 | MEN | 2 | HM | 3'-0" | 7'-0" | 0'-1 3/8" | WD | - | - | | 1/A612 | 6/A613 | |
| 115 | JAN CL | 4 | HM | 3'-0" | 7'-0" | 0'-1 3/8" | WD | - | - | | 2/A612 | 4/A613 | |
| 116 | STORAGE | 4 | HM | 3'-0" | 7'-0" | 0'-1 3/8" | WD | - | - | | 1/A612 | 4/A613 | |
| 117 | STAIR D | 5 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 2/A612 | 3/A613 | FPSC |

| 2ND FLOOR | | | | | | | | | | | | | |
|-----------|--------------------|---|---------|-------|-------|-----------|----|---|--------|--|--------|--------|-----------------|
| 201 | TERRACE | 6 | GL/ALUM | 3'-0" | 7'-0" | 0'-1 3/4" | AL | W | - | | 3/A611 | 2/A611 | |
| 202 | VESTIBULE | 6 | GL/ALUM | 3'-0" | 7'-0" | 0'-1 3/4" | AL | W | - | | 7/A613 | 3/A611 | |
| 203 | TERRACE | 6 | GL/ALUM | 3'-0" | 7'-0" | 0'-1 3/4" | AL | W | - | | 3/A611 | 2/A611 | |
| 204 | VESTIBULE | 6 | GL/ALUM | 3'-0" | 7'-0" | 0'-1 3/4" | AL | W | - | | 7/A613 | 3/A611 | |
| 205 | LAUNDRY | 2 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 1/A612 | 6/A613 | |
| 206 | PUBLIC RESTROOM | 2 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 1/A612 | 6/A613 | |
| 207 | COMMUNITY ROOM 1 | 1 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 3/A612 | 7/A613 | |
| 208 | COMMUNITY ROOM 2 | 1 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 3/A612 | 7/A613 | |
| 209 | COMMUNITY CLOSET 1 | 3 | WD | 3'-0" | 6'-8" | 0'-1 3/8" | WD | - | - | | 3/A612 | - | (2) 1'-6" DOORS |
| 210 | COMMUNITY CLOSET 2 | 3 | WD | 3'-0" | 6'-8" | 0'-1 3/8" | WD | - | - | | 3/A612 | - | (2) 1'-6" DOORS |

| 7TH FLOOR | | | | | | | | | | | | | |
|-----------|---------|---|-------|-------|-------|-----------|----|---|---|--|--|--|--|
| 701 | TERRACE | 6 | GL/FG | 3'-0" | 7'-0" | 0'-1 3/4" | FG | W | - | | | | |
| 702 | TERRACE | 6 | GL/FG | 3'-0" | 7'-0" | 0'-1 3/4" | FG | W | - | | | | |
| 703 | TERRACE | 6 | GL/FG | 3'-0" | 7'-0" | 0'-1 3/4" | FG | W | - | | | | |

| ROOF | | | | | | | | | | | | | |
|------|-----------------------|---|----|-------|-------|-----------|----|---|---|--|--------|--------|--|
| 401 | STAIR A | 2 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | - | | 2/A612 | 4/A611 | |
| 402 | STAIR B | 2 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | - | | 2/A612 | 4/A611 | |
| 403 | ELEVATOR CONTROL ROOM | 2 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | - | | 2/A612 | 4/A611 | |
| 404 | HOT WATER ROOM | 2 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | - | | 2/A612 | 4/A611 | |

TYPICAL DOORS:

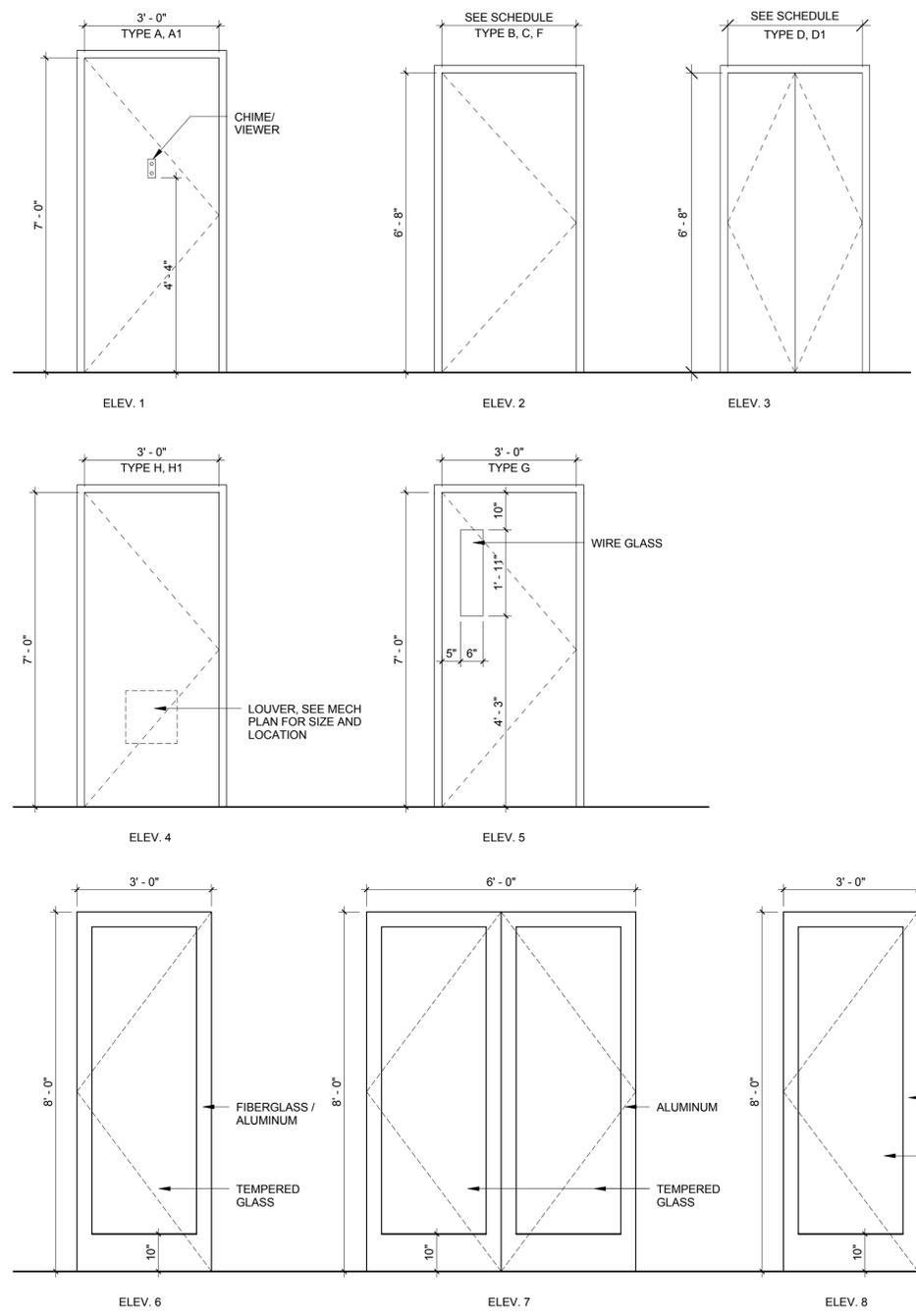
NOTES:

- SEE FINISH SCHEDULE FOR DOOR AND FRAME FINISHES.
- UNDERCUT ALL APT. BATHROOM DOORS.
- COORDINATE LOUVERS AND DAMPERS IN DOORS WITH MECHANICAL DWGS.
- DOOR OPERATING DEVICE SHALL BE INSTALLED 34" MIN AND 48" MAX.
- PUNCH ALL WELDED HM FRAMES FOR INSTALLATION AFTER MASONRY AND CONCRETE ARE INSTALLED.
- ALL WELDED FRAME TO BE FLUSHED IN BY MASONRY CONTRACTOR.
- ALL BEDROOM DOORS TO HAVE 1" UNDERCUT.

ABBREVIATIONS:

ALUM ALUMINUM
HM HOLLOW METAL
KD KNOCK DOWN
W WELDED
WD WOOD
STL STEEL
FG FIBERGLASS

| TYPE/NO | FROM ROOM - ROOM | DOOR | | | | | FRAME | | F.P. RATING | HARDWARE | DETAILS HEAD/JAMB | DETAILS THRESHOLD | NOTES |
|---------|----------------------|--------|---------|-------|--------|-----------|-------|------|-------------|----------|-------------------|-------------------|-------|
| | | ELEV # | MAT'L | WIDTH | HEIGHT | THICKNESS | MAT'L | W/KD | | | | | |
| A | APT. ENTRY | 1 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 1/A612 | 1/A613 | |
| A1 | APT. ENTRY | 1 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 2/A612 | 1/A613 | |
| B | APT. INTERIOR DOOR | 2 | WD | 3'-0" | 6'-8" | 0'-1 3/8" | WD | - | - | | 3/A612 | - | |
| C | APT. BATH DOOR | 2 | WD | 3'-0" | 6'-8" | 0'-1 3/8" | WD | - | - | | 3/A612 | 2/A613 | |
| D | APT. CLOSET (DOUBLE) | 3 | WD | 3'-0" | 6'-8" | 0'-1 3/8" | WD | - | - | | 3/A612 | - | |
| D1 | APT. CLOSET (DOUBLE) | 3 | WD | 4'-0" | 6'-8" | 0'-1 3/8" | WD | - | - | | 3/A612 | - | |
| E | APT. CLOSET (SINGLE) | 2 | WD | 1'-6" | 6'-8" | 0'-1 3/8" | WD | - | - | | 3/A612 | - | |
| E1 | APT. CLOSET (SINGLE) | 2 | WD | 2'-0" | 6'-8" | 0'-1 3/8" | WD | - | - | | 3/A612 | - | |
| G | STAIR | 5 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 2/A612 | 3/A613 | FPSC |
| H | TRASH | 4 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 1/A612 | 4/A613 | |
| H1 | JAN CL | 4 | HM | 3'-0" | 7'-0" | 0'-1 3/4" | HM | W | 90 MIN | | 2/A612 | 4/A613 | FPSC |
| Y | | 6 | GL/ALUM | 3'-0" | 7'-0" | 0'-1 3/4" | AL | W | - | | 7/A613 | 3/A611 | |



Door Types
1/2" = 1'-0"

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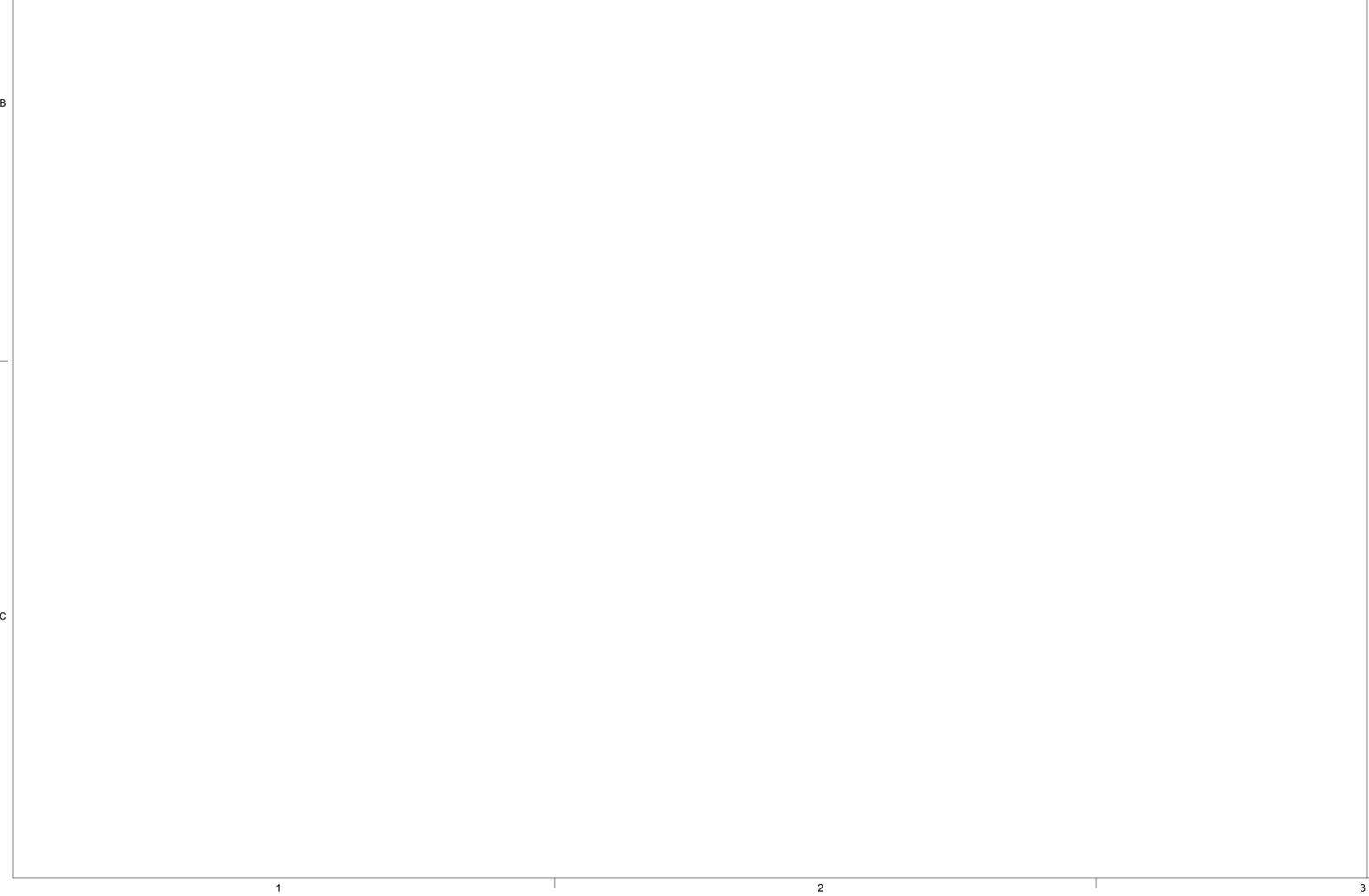
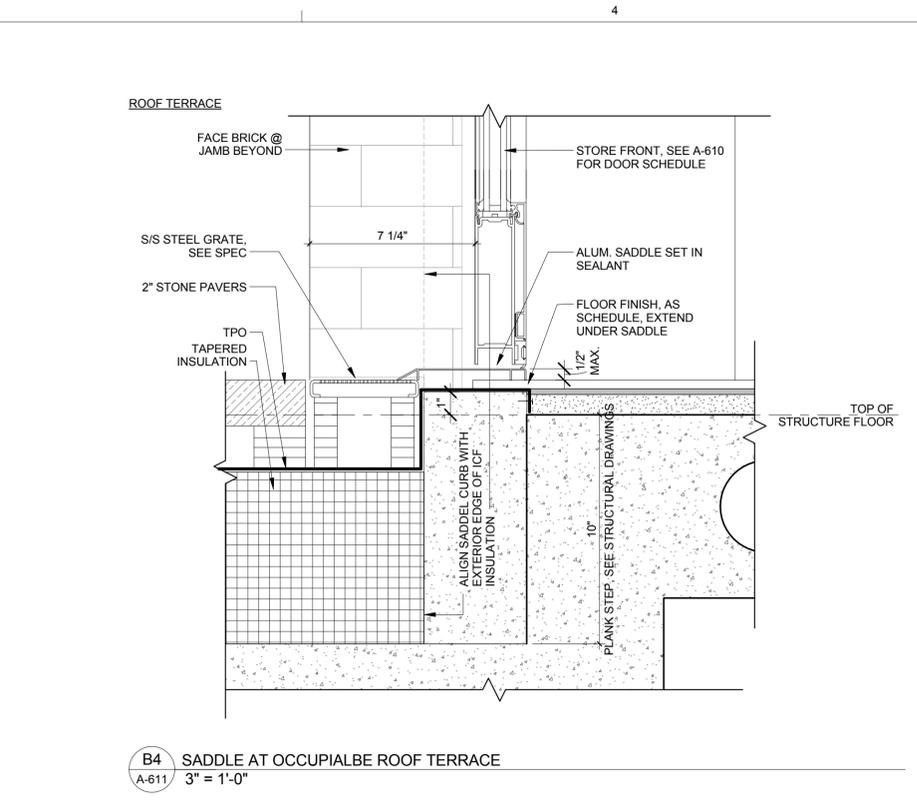
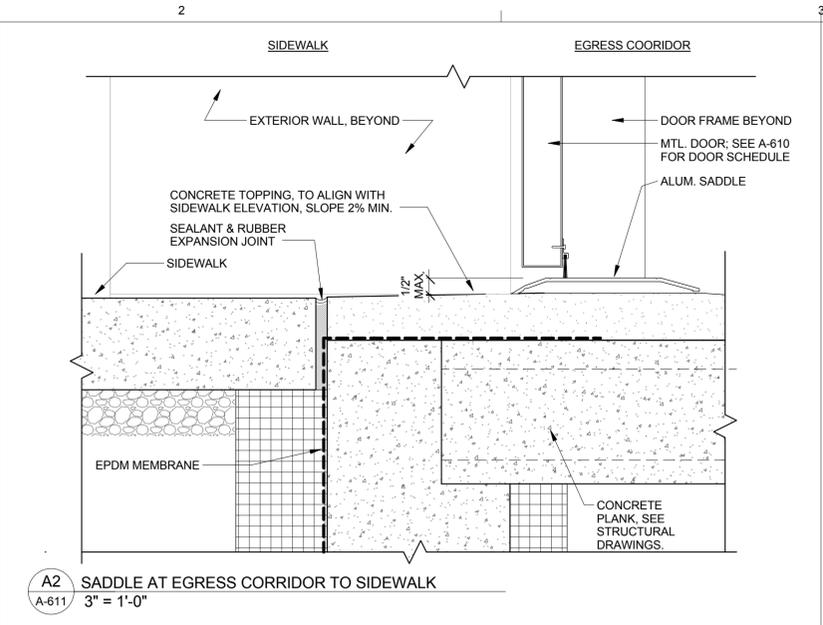
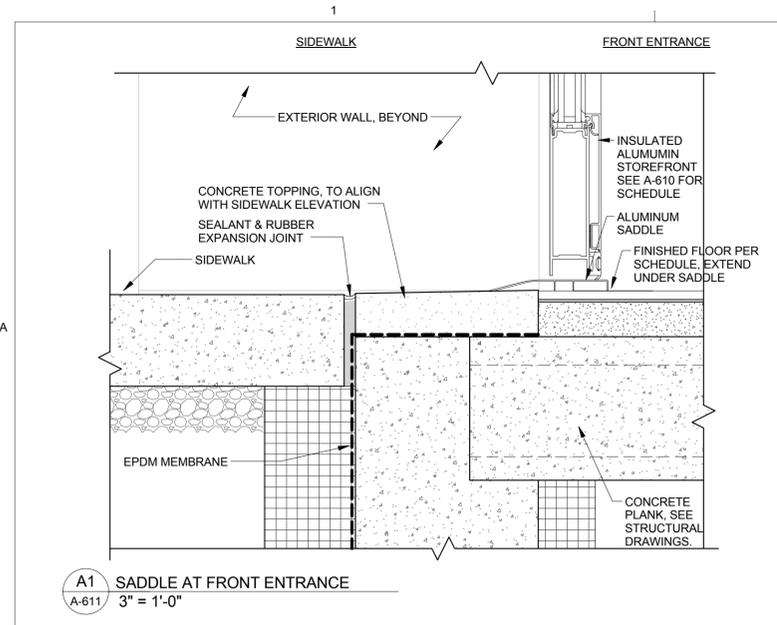
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DOOR SCHEDULE, DETAILS

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3365 Third Ave Bronx, NY 10456

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EXTERIOR DOOR HEAD/JAMB AND SADDLE



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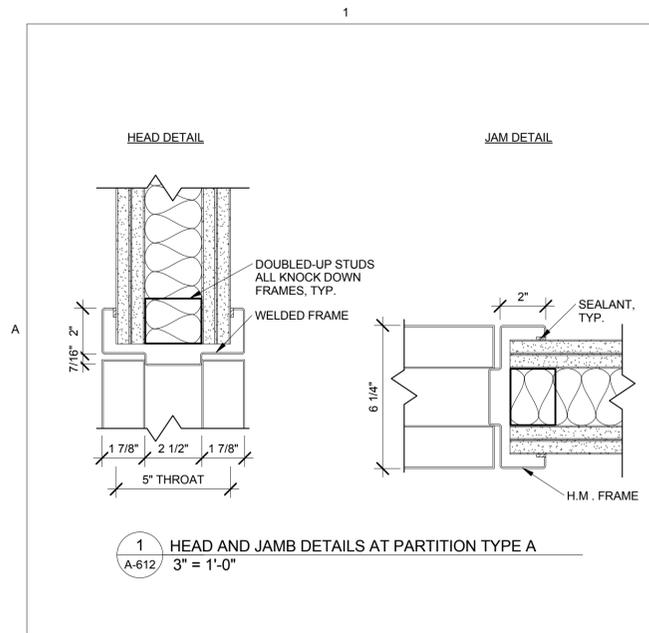
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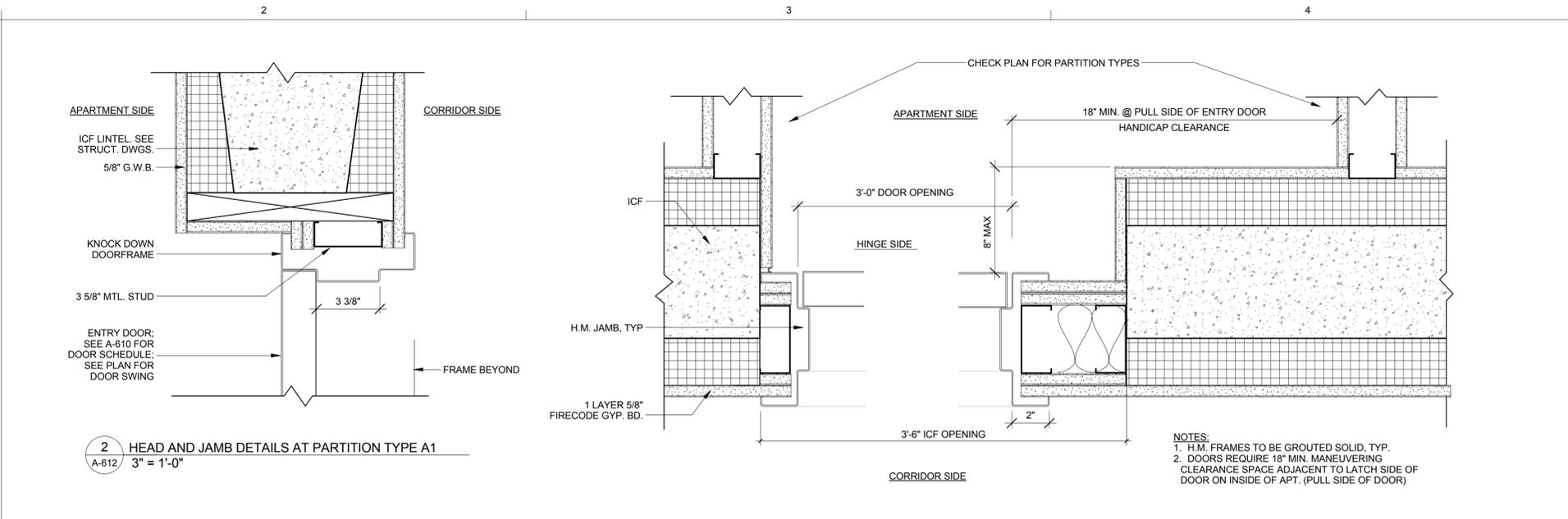
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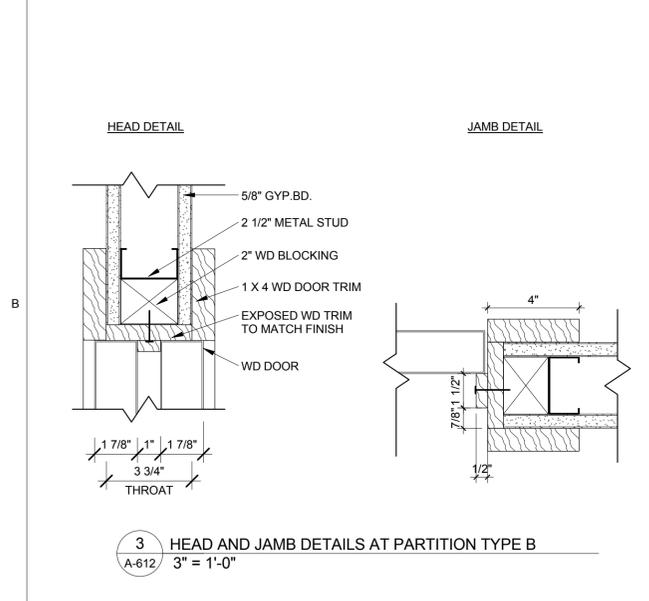
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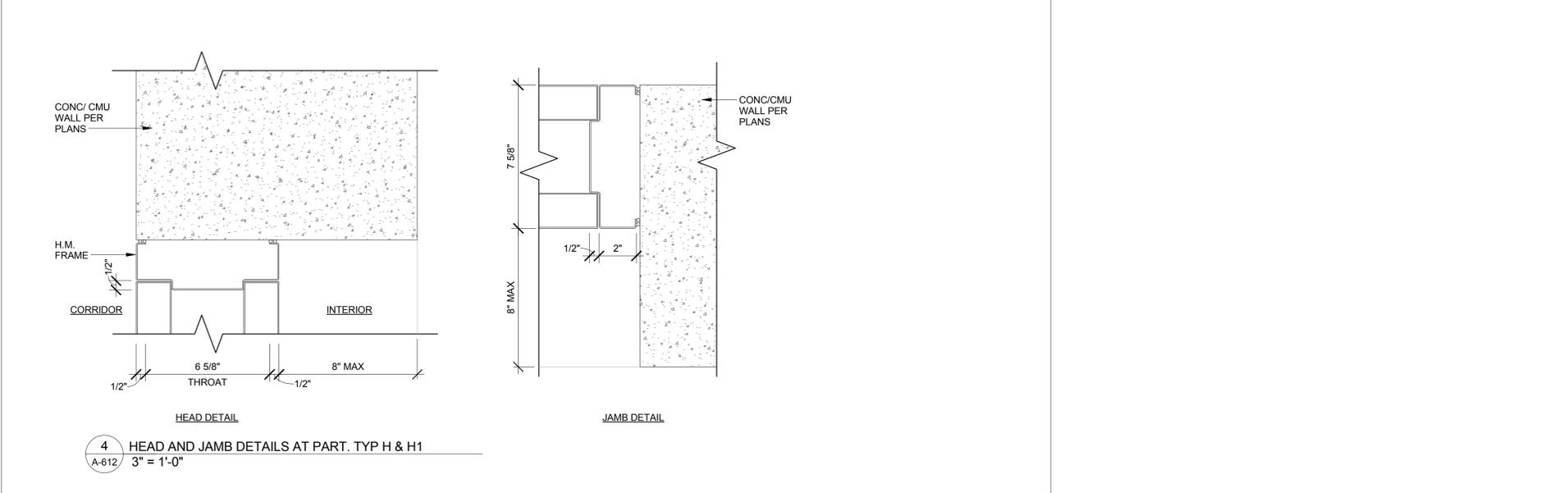
1 HEAD AND JAMB DETAILS AT PARTITION TYPE A
A-612 3" = 1'-0"



2 HEAD AND JAMB DETAILS AT PARTITION TYPE A1
A-612 3" = 1'-0"



3 HEAD AND JAMB DETAILS AT PARTITION TYPE B
A-612 3" = 1'-0"



4 HEAD AND JAMB DETAILS AT PART. TYP H & H1
A-612 3" = 1'-0"

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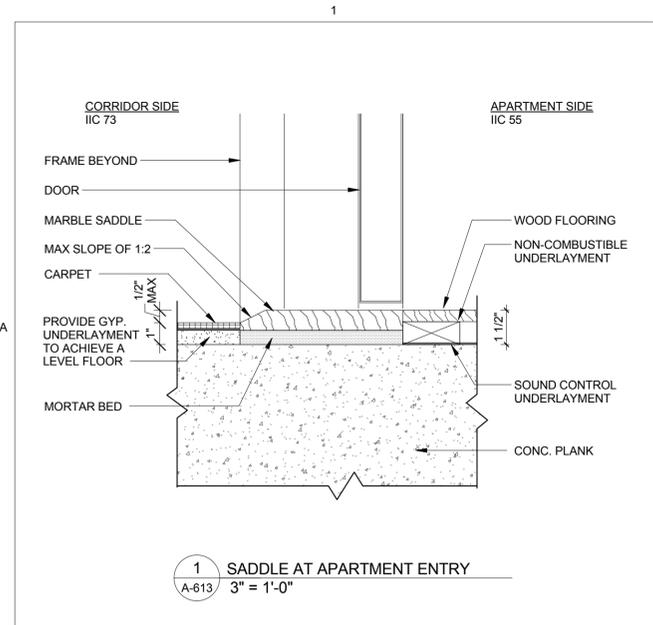
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INTERIOR DOOR HEAD AND JAMB DETAILS

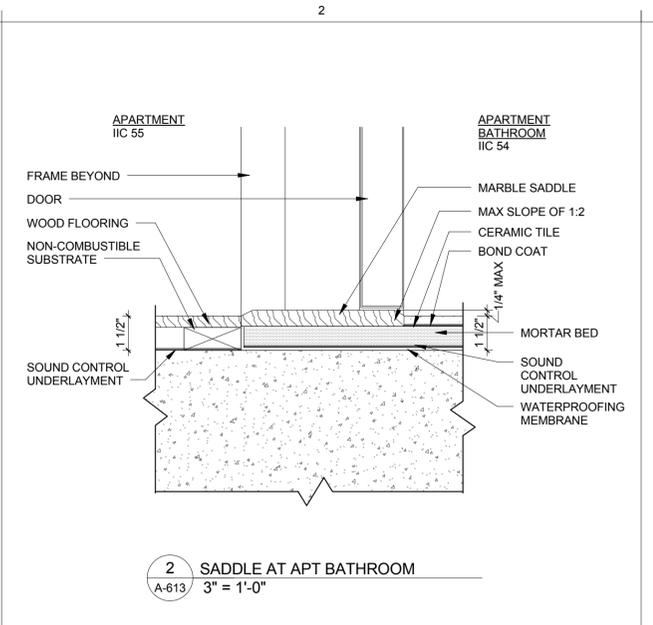
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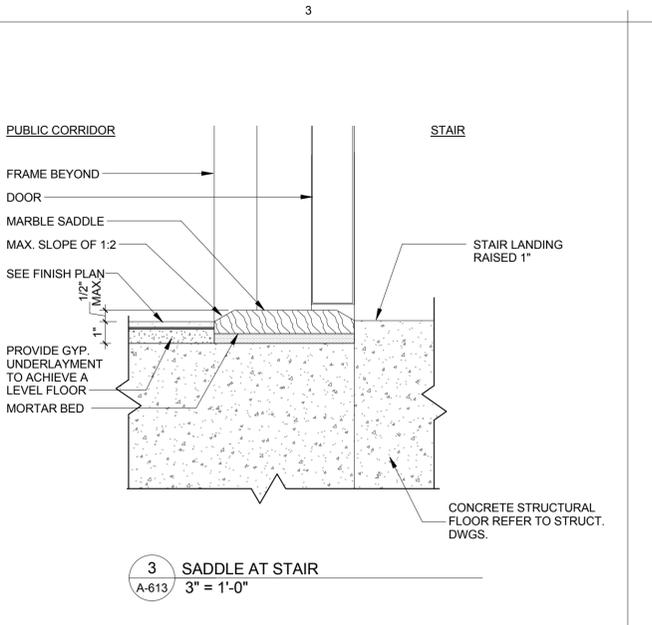
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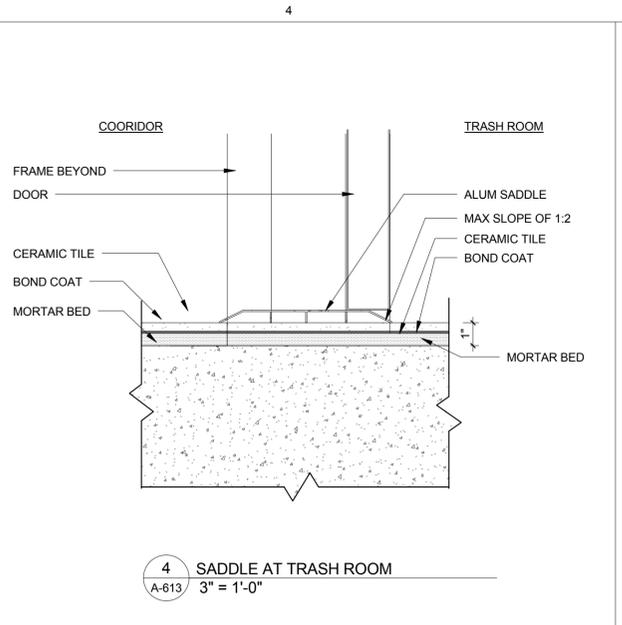
1 SADDLE AT APARTMENT ENTRY
A-613 3" = 1'-0"



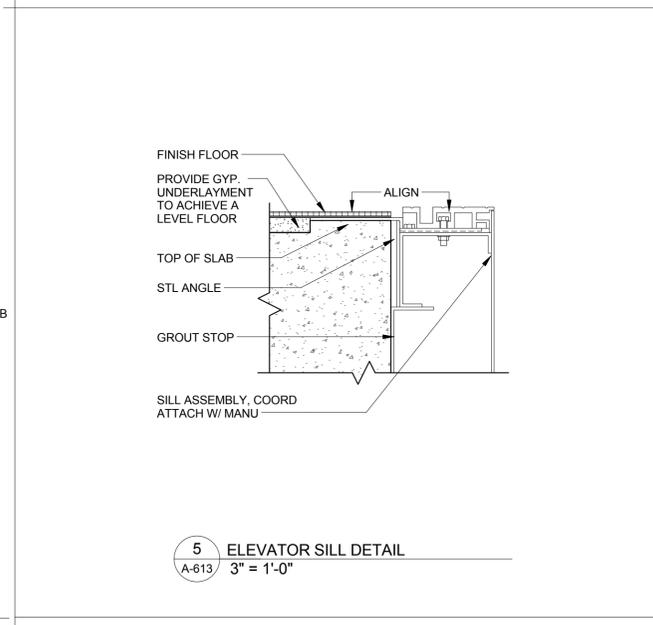
2 SADDLE AT APT BATHROOM
A-613 3" = 1'-0"



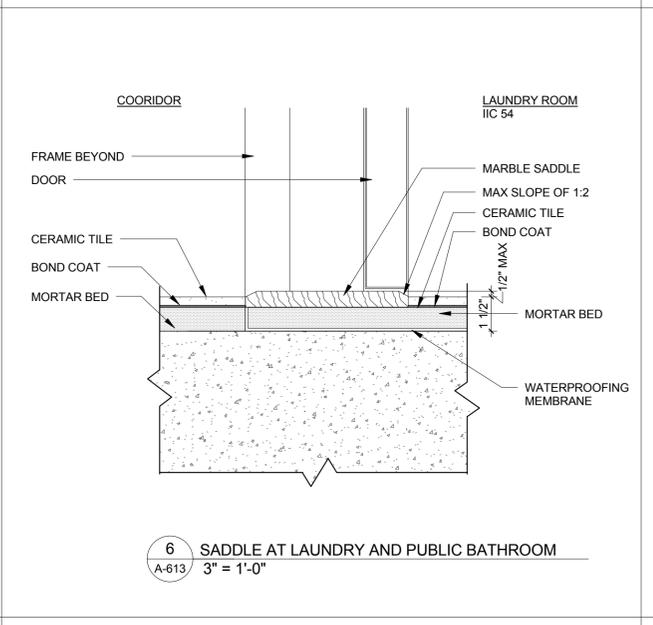
3 SADDLE AT STAIR
A-613 3" = 1'-0"



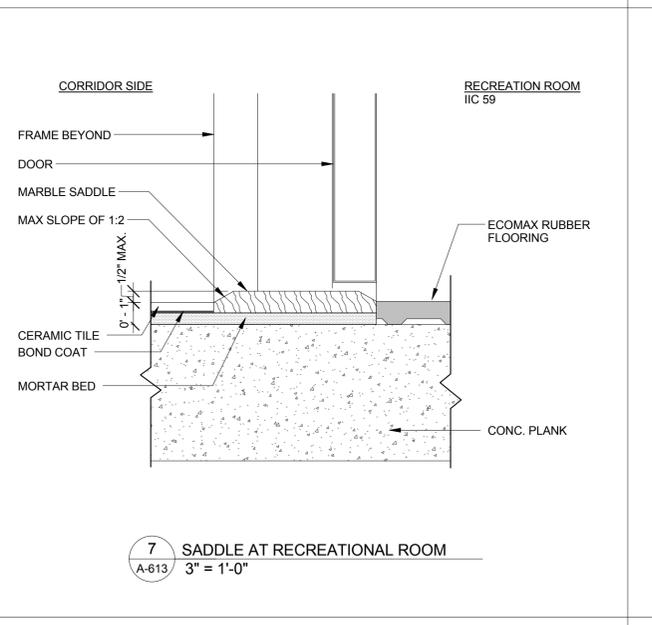
4 SADDLE AT TRASH ROOM
A-613 3" = 1'-0"



5 ELEVATOR SILL DETAIL
A-613 3" = 1'-0"



6 SADDLE AT LAUNDRY AND PUBLIC BATHROOM
A-613 3" = 1'-0"



7 SADDLE AT RECREATIONAL ROOM
A-613 3" = 1'-0"

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INT DOOR SADDLE DETAIL

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| ROOM FINISH SCHEDULE | | | | | | | | | |
|----------------------|----------------|--------------|---------------|-------------|---------------|--------------------|------------------|----------------|--|
| ROOM | FLOOR | | BASE | | WALL | | CEILING | | NOTES |
| | FLOOR MATERIAL | FLOOR FINISH | BASE MATERIAL | BASE FINISH | WALL MATERIAL | WALL FINISH | CEILING MATERIAL | CEILING FINISH | |
| 00 BASEMENT | | | | | | | | | |
| COMMUNITY FACILITY | CONC | CC-2 | RUBBER | B-4 | GWB/CONC | PT-1 | CONC | EXIST | |
| CORRIDOR | CONC | CC-2 | RUBBER | B-4 | CONC | PT-1 | CONC | EXIST | |
| DETENTION TANK | CONC | CC-2 | - | - | CONC | EXIST | CONC | EXIST | |
| ELECTRICAL | CONC | CC-2 | - | - | CONC | EXIST | CONC | EXIST | |
| ELEV. CTRL. RM. | CONC | CC-2 | - | - | GWB/CONC | PT-1 | CONC | EXIST | |
| ELEVATOR A | - | FT-3 | TERRAZO | B-3 | - | PL-1 | - | - | SS DOOR AND FRAME |
| ELEVATOR B | - | FT-3 | TERRAZO | B-3 | - | PL-1 | - | - | SS DOOR AND FRAME |
| GAS METER | CONC | CC-2 | - | - | CONC | EXIST | CONC | EXIST | |
| IT CLOSET | CONC | CC-2 | - | - | CONC | EXIST | CONC | EXIST | |
| MEN | CONC | FT-1 | PORCELAIN | B-1 | GWB | WT4/PT-1 | ACT | - | SEE BATHROOM ELEVATION FOR FINISH LOCATION |
| OUTDOOR AREA | CONC | PV-1 | - | - | - | - | - | - | |
| STAIR A | CONC | CC-2 | - | - | CONC | PT-3/PT-4 | CONC | EXIST | |
| STAIR C | CONC | CC-2 | - | - | CONC | PT-1 | CONC | EXIST | |
| STAIR D | CONC | CC-2 | - | - | CONC | PT-1 | CONC | EXIST | |
| STORAGE | CONC | CC-2 | - | - | CONC | EXIST | CONC | EXIST | |
| TRASH ROOM | CONC | CC-2 | - | - | CONC | EXIST | CONC | EXIST | |
| WATER | CONC | CC-2 | - | - | CONC | EXIST | CONC | EXIST | |
| WOMEN | CONC | FT-1 | PORCELAIN | B-1 | GWB | WT4/PT-1 | ACT | - | SEE BATHROOM ELEVATION FOR FINISH LOCATION |
| 01 FIRST FLOOR | | | | | | | | | |
| BIKE ROOM | CONC | CC-2 | RUBBER | B-4 | CONC | PT-1 | CONC | EXIST | |
| COMM. FACILITY LOBBY | CONC | CC-2 | RUBBER | B-4 | GWB | PT-1 | CONC | ES | |
| COMMUNITY FACILITY | CONC | CC-2 | RUBBER | B-4 | GWB | PT-1 | CONC | ES | |
| ELEVATOR A | - | FT-3 | TERRAZO | B-3 | - | PL-1 | - | - | SS DOOR/FRAME |
| ELEVATOR B | - | FT-3 | TERRAZO | B-3 | - | PL-1 | - | - | SS DOOR/FRAME |
| MEN | CONC | FT-1 | PORCELAIN | B-1 | GWB | WT4/PT-1 | ACT | - | SEE BATHROOM ELEVATION FOR FINISH LOCATION |
| RESIDENTIAL LOBBY | CONC | FT-1 | PORCELAIN | B-1 | GWB | WT-1/WT2/PT-1 | GWB | PT-1 | WT-1 @2'-0", WT-2 @ 2'-4" |
| STAIR A | CONC | CC-2 | - | - | CONC | PT-3/PT-4 | CONC | EXIST | |
| STAIR B | CONC | CC-2 | - | - | CONC | PT-3/PT-4 | CONC | EXIST | |
| STAIR C | CONC | CC-2 | - | - | CONC | PT-1 | CONC | EXIST | FIRE RATED GLASS DOOR |
| STAIR D | CONC | CC-2 | - | - | CONC | PT-1 | CONC | EXIST | |
| STORAGE | CONC | FT-1 | PORCELAIN | B-1 | GWB | PT-1 | CONC | EXIST | |
| TRASH LIFT | CONC | CC-2 | RUBBER | B-4 | GWB | PT-1 | CONC | EXIST | |
| WOMEN | CONC | FT-1 | PORCELAIN | B-1 | GWB | WT4/PT-1 | ACT | - | SEE BATHROOM ELEVATION FOR FINISH LOCATION |
| 02 SECOND FLOOR | | | | | | | | | |
| COMMUNITY ROOM | CONC | RF-1 | RUBBER | B-4 | GWB | PT-1 | ACT | - | MIRROR ON ALL WALLS |
| CORRIDOR | CONC | FT-1 | PORCELAIN | B-1 | GWB | PT-1/PT-2 | GWB | PT-1 | CHAIR RAIL @ 2'-6" PT-2 |
| LAUNDRY | CONC | FT-1 | PORCELAIN | B-1 | GWB | PT-1 | ACT | - | |
| RESIDENTIAL TERRACE | CONC | PV-1 | - | - | - | - | - | - | |
| RESTROOM | CONC | FT-1 | PORCELAIN | B-1 | GWB | WT4/PT-1 | ACT | - | SEE BATHROOM ELEVATION FOR FINISH LOCATION |
| 03 TYP. FLOOR 2-9 | | | | | | | | | |
| CORRIDOR | CONC | FT-1 | PORCELAIN | B-1 | GWB | PT-1/PT-2 | GWB | PT-1 | CHAIR RAIL @ 2'-6" PT-2 |
| ELEVATOR A | - | - | TERRAZO | B-3 | - | PL-1 | - | - | |
| JAN CL | CONC | CC-2 | RUBBER | B-4 | GWB/CONC | PT-1 | CONC | EXIST | |
| STAIR A | CONC | CC-2 | - | - | CONC | PT-3/PT-4 | CONC | EXIST | |
| STAIR B | CONC | CC-2 | - | - | CONC | PT-3/PT-4 | CONC | EXIST | |
| TRASH ROOM | CONC | CC-2 | RUBBER | B-4 | CONC | PT-1 | CONC | EXIST | |
| 04 APARTMENTS 2-9 | | | | | | | | | |
| BATHROOM | CONC | FT-2 | CERAMIC | B-2 | GWB | WT4/WT-5/WT-6/PT-1 | GWB | PT-1 | |
| BEDROOM | CONC | WF-1 | WOOD | B-5 | GWB | PT-1 | CONC | EXIST | SMOOTH WITH JOINT FILLER |
| KITCHEN | CONC | FT-2/WF-1 | CERAMIC/WOOD | B-2/B-5 | GWB | PT-1 | GWB | PT-1 | |
| LIVING/DINING | CONC | WF-1 | WOOD | B-5 | GWB | PT-1 | CONC | EXIST | SMOOTH WITH JOINT FILLER |
| 05 ROOF | | | | | | | | | |
| BOILER ROOM | CONC | CC-2 | - | - | CONC | EXIST | CONC | EXIST | |
| ELEV. CONTROL ROOM | CONC | CC-2 | - | - | CONC | EXIST | CONC | EXIST | |

| FINISH MATERIAL LEGEND | | | | | | | | | |
|------------------------|-------------------|------------------------|----------------|---------------------|---------------------|---------------------------|---------------------------|---|------------------------------|
| | CODE | MATERIAL | MANUFACTURER | SERIES / MODEL | COLOR | TYPE / SIZE | NOTES / LOCATION | | |
| INTERIOR FLOORS | FT-1 | PORCELAIN FLOOR TILE | TBD | CASALGRANDE PADANA | ARCHITECTURE | DARK IVORY | 12"x24"x3/16" | RESIDENTIAL LOBBY & CORRIDOR FLOORING | |
| | FT-2 | CERAMIC FLOOR TILE | | CASALGRANDE PADANA | MARTE | NERO ACAPULCO | 24"x24"x3/16" | APARTMENT KITCHEN & RESTROOM FLOORING | |
| | FT-3 | TERRAZO FLOOR TILE | | FRITZTILE | FOYER | Q160588 | 12"x12"x3/16" | ELEVATOR FLOORING | |
| | CC-1 | CONCRETE | | | LIGHT BROOM FINISH | | | EXTERIOR CONCRETE | |
| | CC-2 | POLISHED NATURAL CONC. | | | SEALED CONCRETE | | | INTERIOR STAIRS | |
| | PV-1 | BRICK PAVERS | TBD | | | | | OUTDOOR AREA | |
| | RF-1 | RUBBER FLOORING | | ECO SURFACES | ECONIGHTS | BLUE MOOD 602 | TBD | COMMUNITY SPACE | |
| | WF-1 | WOOD FLOORING | | MINWAX | | RED MAHOGANY 225 | - | APARTMENT FLOORING | |
| | BASE | B-1 | PROCELAIN BASE | TBD | - | - | MATCH FT-1 | 3 1/2" x 12" | RESIDENTIAL LOBBY & CORRIDOR |
| | | B-2 | CERAMIC BASE | TBD | - | - | MATCH FT-2 | 3 1/2" x 12" | APARTMENT KITCHEN & RESTROOM |
| B-3 | | TERRAZO BASE | TBD | - | - | MATCH FT-3 | 4" x 12" | ELEVATOR | |
| B-4 | | RUBBER BASE | | SPARTAN SURFACES | N WALL BASE | 34N BLACK HOLE | 4" | COMMUNITY SPACE / CONCRETE FLOORING | |
| B-5 | | WOOD BASE | TBD | - | - | MATCH FT-5 | 4 1/2" x 12" | APARTMENT | |
| WALLS | PL-1 | PLASTIC LAMINATE | | WILSON ART | - | NICKEL - EV 4813-60 | MATTE | ELEVATOR | |
| | PT-1 | INTERIOR PAINT | | SHERWIN WILLIAMS | - | SW 7006 EXTRA WHITE | - | - | |
| | PT-2 | INTERIOR PAINT | | SHERWIN WILLIAMS | - | SW 7068 GRIZZLE GREY | - | - | |
| | PT-3 | INTERIOR PAINT | | SHERWIN WILLIAMS | - | - | TBD | STAIR COLOR A | |
| | PT-4 | INTERIOR PAINT | | SHERWIN WILLIAMS | - | - | TBD | STAIR COLOR B | |
| | WT-1 | WALL TILE ACCENT | | CASALGRANDE PADANA | ARCHITECTURE | MIX LISTELLI & DARK BROWN | 12"x12" | RESIDENTIAL LOBBY UP TO 2'-0" A.F.F. | |
| | WT-2 | WALL TILE ACCENT | | CASALGRANDE PADANA | ARCHITECTURE | BLACK | 3 1/2"x24" | RESIDENTIAL LOBBY @ 2'-0" A.F.F. | |
| | WT-3 | CHAIR RAIL ACCENT | TBD | - | - | MATCH PT-2 | - | RESIDENTIAL CORRIDORS @ 2'-10" A.F.F. | |
| | WT-4 | CERAMIC WALL TILE | | VITRA | ARKITEKT COLORS | RAL 9016 WHITE | 4"x12" GLOSS | APARTMENT KITCHEN BACKSPLASH & RESTROOM | |
| | WT-5 | CERAMIC WALL TILE | | PRO | MODULAR TILE SYSTEM | PURE WHITE | 2"x2" GLOSS | APARTMENT RESTROOM ACCENT | |
| WT-6 | CERAMIC WALL TILE | | PRO | MODULAR TILE SYSTEM | DARK GREY | 2"x2" GLOSS | APARTMENT RESTROOM ACCENT | | |
| MISC. | CT-1 | COUNTER TOP | | CEASARSTONE | - | OCEAN FOAM | - | APARTMENT KITCHEN COUNTER | |
| | MC-1 | MILWORK CABINET | | ARMSTRONG | MAPLE/BIRCH | ESPRESSO | - | APARTMENT LOWER KITCHEN CABINET | |
| | MC-2 | MILWORK CABINET | | ARMSTRONG | MAPLE/BIRCH | ALPINE WHITE | - | APARTMENT UPPER KITCHEN CABINET | |
| | SL-1 | STONE LEDGE | | ICE STONE | - | GOTHAM GREY | - | MAIL LEDGE @ RESIDENTIAL LOBBY | |

| APPLIANCE SCHEDULE IN PROGRESS | | | | |
|--------------------------------|--------------|------------|--------|--------------------------------------|
| NAME | MANUFACTURER | MODEL | FINISH | NOTES |
| DISHWASHER | GE | GLDA690FWW | WHITE | ENERGY STAR |
| RANGE | GE | AGBS45DEF | WHITE | |
| RANGE ADA | GE | AGBS45DEF | WHITE | ADA COMPLIANT - ACCESSIBLE APT. ONLY |
| RANGE HOOD | GE | JVE40DT | WHITE | |
| REFRIGERATOR | GE | GIE18ETH | WHITE | ENERGY STAR |
| SINGLE DRYER | MAYTAG | MDG25PD | WHITE | |
| SINGLE WASHER | MAYTAG | MHN30PDB | WHITE | ENERGY STAR |
| STACK DRYER/DRYER | MAYTAG | MLG30PD | WHITE | |
| STACK WASHER/DRYER | MAYTAG | MLG20PDB | WHITE | ENERGY STAR WASHER |

| PLUMBING FIXTURE SCHEDULE IN PROGRESS | | |
|---------------------------------------|-------------------|---------------------------------------|
| NAME | MANUFACTURER | MODEL |
| BATH AND SHOWER CONTROLS | SYMMONS | ELM - 5502-1.5 |
| BATH TUB | AMERICAN STANDARD | PRINCETON - 2392.202 |
| BATHROOM FAUCET | SYMMONS | DIA - SLC-5512-1.5 |
| BATHROOM SINK | AMERICAN STANDARD | BOULEVARD - 0618.004 |
| EXTERIOR HOSE BIB | WOODFORD | B65 |
| KITCHEN FAUCET | SYMMONS | DIA - SPB-2510 |
| KITCHEN SINK | DAYTON | ELITE SINGLE BOWL - DSESR12722 3 HOLE |
| LAUNDRY FAUCET | GERBER | MAXWELL 40-120 |
| LAUNDRY SINK | FIAT | L1 WALL HUNT SERV-A-SINK |
| MOP SINK | MUSTEE | 63M |
| MOP SINK FAUCET | MUSTEE | 63.600A |
| PUBLIC BATHROOM SINK | KOHLER | K-2007 |
| PUBLIC PATHROOM FAUCET | SYMMONS | ELM - SLC-5512-1.5 |
| PUBLIC TOLIET | KOHLER | HIGHCLIFF - K-4368-L |
| TOILET | GERBER | MAXWELL - 20-022 |

ABBREVIATIONS:
ES = EXPOSED STRUCTURE
STN = WOOD STAIN
SL = CONCRETE SEALER
WS = WATERPROOF SEALER

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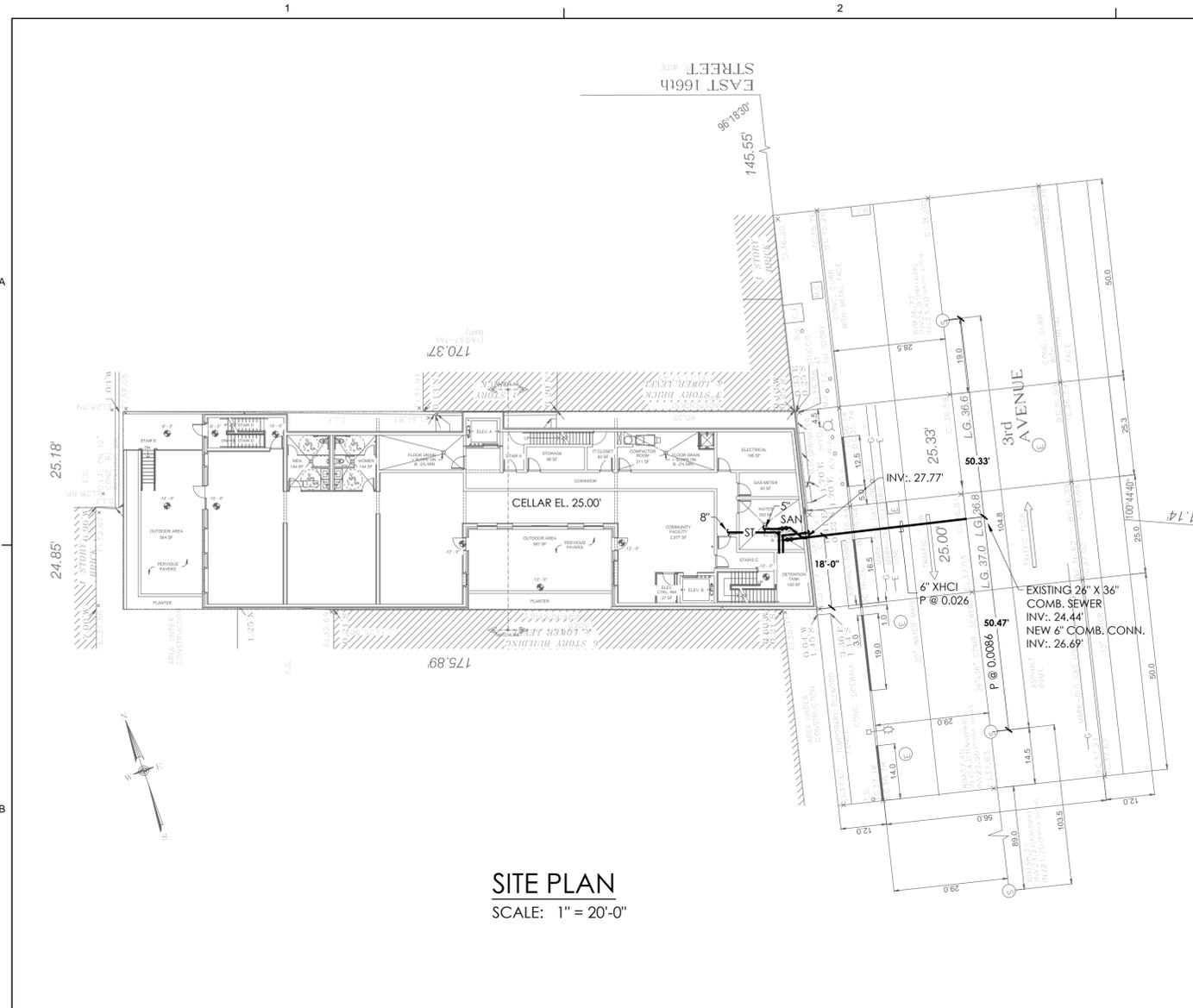
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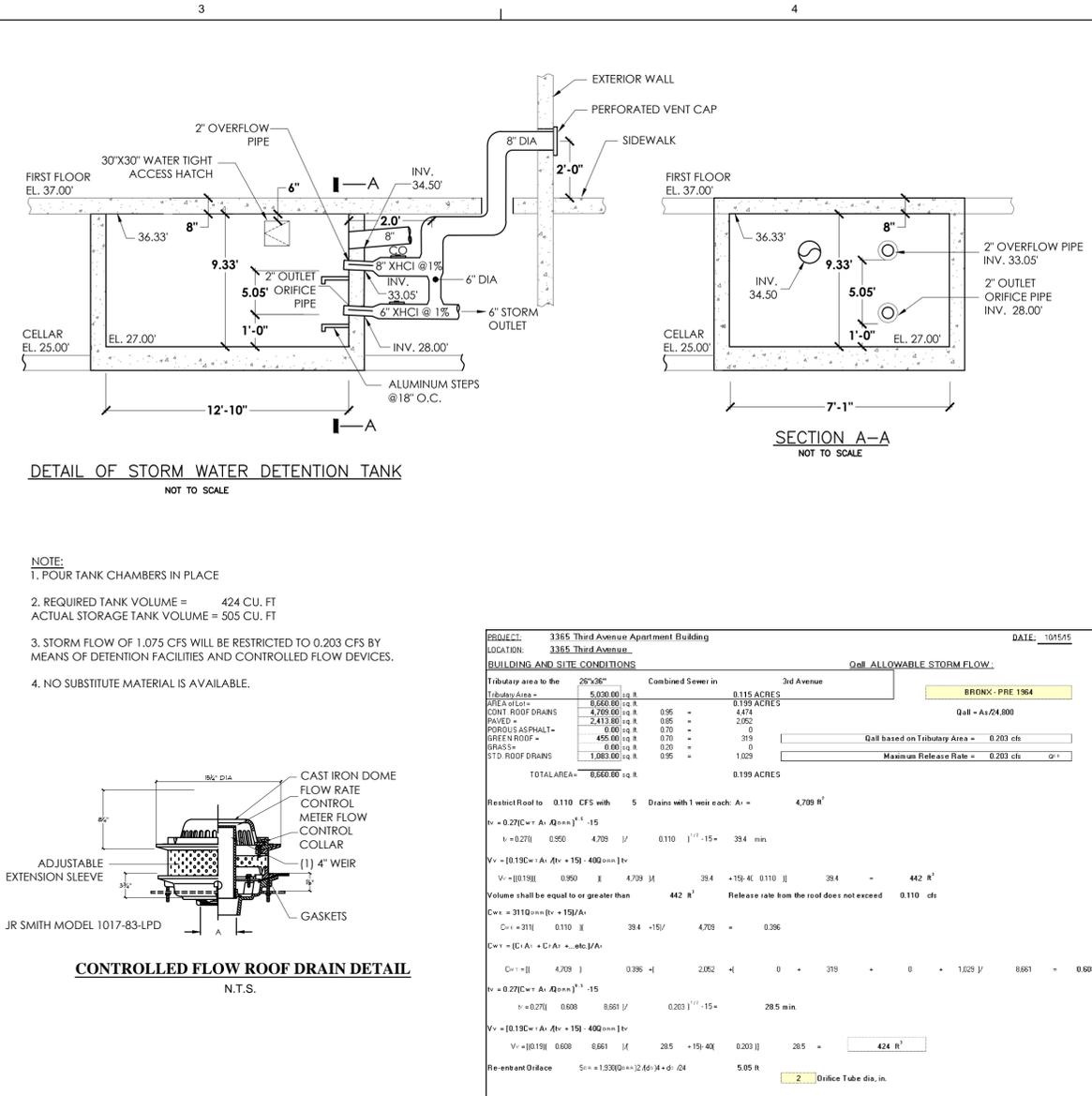


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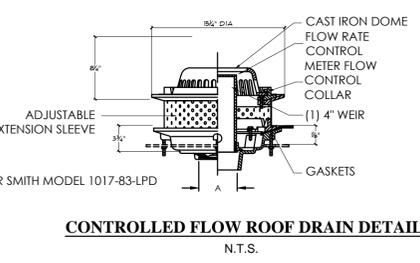


SITE PLAN
SCALE: 1" = 20'-0"



DETAIL OF STORM WATER DETENTION TANK
NOT TO SCALE

- NOTE:
- POUR TANK CHAMBERS IN PLACE
 - REQUIRED TANK VOLUME = 424 CU. FT
ACTUAL STORAGE TANK VOLUME = 505 CU. FT
 - STORM FLOW OF 1.075 CFS WILL BE RESTRICTED TO 0.203 CFS BY MEANS OF DETENTION FACILITIES AND CONTROLLED FLOW DEVICES.
 - NO SUBSTITUTE MATERIAL IS AVAILABLE.



CONTROLLED FLOW ROOF DRAIN DETAIL
N.T.S.

| BUILDING AND SITE CONDITIONS | | Gall ALLOWABLE STORM FLOW: | |
|------------------------------|------------------|----------------------------|-------------|
| Tributary area to the | 26'x36' | Combined Sewer in | 3rd Avenue |
| Tributary Area = | 5,030.00 sq. ft. | | 0.115 ACRES |
| AREA = 10' | 6,660.00 sq. ft. | | 0.199 ACRES |
| CONT. ROOF DRAINS | 4,708.00 sq. ft. | | 1.471 |
| PAVED | 2,413.00 sq. ft. | | 2,052 |
| PERVIOUS ASPHALT | 0.00 sq. ft. | | 0.70 |
| GREEN ROOF | 455.00 sq. ft. | | 319 |
| GRASS | 0.00 sq. ft. | | 0.20 |
| STD. ROOF DRAINS | 1,083.00 sq. ft. | | 1,029 |
| TOTAL AREA = | 6,660.00 sq. ft. | | 0.199 ACRES |

| Restrict Roof to | 0.110 CFS with | 5 Drains with 1 weir each: | A1 = | 4,708 sq. ft. |
|--|----------------|----------------------------|------|---------------|
| $t_v = 0.27(C_w + A_1 / Q_{DRR})^{0.5} - 15$ | | | | |
| $t_v = 0.27(0.950 + 4,708 / 0.110)$ | | | | 384 min. |
| $V_v = [0.19C_w + A_1 / (t_v + 15) - 40Q_{DRR}] t_v$ | | | | 442 sq. ft. |
| $V_v = [0.19(0.950) + 4,708 / (384 + 15) - 40(0.110)] 384$ | | | | 442 sq. ft. |

| Volume shall be equal to or greater than | 442 sq. ft. | Release rate from the roof does not exceed | 0.110 cfs |
|---|-------------|--|---------------------------|
| $C_w = 3110 \text{ (min)} + 150 / A_1$ | | | |
| $C_w = 3110 / 0.110$ | | | 384 - 150 / 4,708 = 0.956 |
| $C_w = (C_1 A_1 + C_2 A_2 + \dots) / A_1$ | | | |
| $C_w = 0.956$ | | | |

| Restrict Roof to | 0.203 CFS with | 5 Drains with 1 weir each: | A2 = | 424 sq. ft. |
|--|----------------|----------------------------|------|-------------|
| $t_v = 0.27(C_w + A_2 / Q_{DRR})^{0.5} - 15$ | | | | |
| $t_v = 0.27(0.608 + 424 / 0.203)$ | | | | 285 min. |
| $V_v = [0.19C_w + A_2 / (t_v + 15) - 40Q_{DRR}] t_v$ | | | | 424 sq. ft. |
| $V_v = [0.19(0.608) + 424 / (285 + 15) - 40(0.203)] 285$ | | | | 424 sq. ft. |

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KEY PLAN

| SYMBOL LIST AND LEGEND | |
|------------------------|-------------------------------|
| (S) | SEWER LINE MANHOLE |
| S | COMBINED SANITARY STORM SEWER |
| --- | PROPERTY LINE |
| XHCI | EXTRA HEAVY CAST IRON |
| CL | CENTER LINE |
| EXIST. | EXISTING |
| INV. EL. | INVERT ELEVATION |
| MH | MANHOLE |
| T.O.S. | TOP OF SLAB |
| AD | AREA DRAIN |
| TD | TERRACE DRAIN |
| RD | ROOF DRAIN |
| CB | CATCH BASIN |
| + | CONNECT NEW PIPE TO EXISTING |

| 1582 3365 Third Avenue Apartment Building | |
|---|------------------------------------|
| Location | 3365 Third Avenue BRONX - PRE 1964 |
| Tax Block | 2370 |
| File No. | 33 |
| Zoning Map No. | 33 |
| Zoning District | 33 |

| Storm and Sewage Flow Calculations | | |
|--|------------------------------|-----------|
| 1 Actual Storm Drainage (using Q = 0.95C) | | |
| Area of site = | 8,660.00 sq. ft. 0.199 acres | |
| a. Cont. Flow Roof Area | | |
| Total CF roof area = | 4,708.00 sq. ft. | |
| $4,708 \times 0.95 \times 0.811$ | 3,611 cfs | |
| 43500 | | |
| b. Green Roof Area | | |
| Total Green Rt. area = | 455.00 sq. ft. | |
| $455 \times 0.95 \times 0.70 \times 0.044$ | 1.18 cfs | |
| 43500 | | |
| c. Paved Area | | |
| Total paved area = | 2,413.00 sq. ft. | |
| $2,413 \times 0.95 \times 0.05 \times 0.280$ | 31.9 cfs | |
| 43500 | | |
| d. Std. Roof Drains | | |
| Total Std. Roof area = | 1,083.00 sq. ft. | |
| $1,083 \times 0.95 \times 0.05 \times 0.141$ | 7.1 cfs | |
| 43500 | | |
| e. Grass | | |
| Total Grassed area = | 0 sq. ft. | |
| $0 \times 0.95 \times 0.20 \times 0.000$ | 0 cfs | |
| 43500 | | |
| f. Permeous Asphalt | | |
| Total Asphalt area = | 0 sq. ft. | |
| $0 \times 0.95 \times 0.70 \times 0.000$ | 0 cfs | |
| 43500 | | |
| g. Total Developed storm water flow = | | 1.075 cfs |

| 2 Secondary drainage Calculated using population density Waste Flow | |
|---|---|
| a. Existing | 26'x36" Combined Sewer in 3rd Avenue |
| | 250 persons/acre @ 0.189 cfs/acre x 7.48 = 3.48 cfs |
| | 150 gal/person/day x 4 = 0.042 cfs |
| Summary | Storm flow developed 1.075 cfs |
| | Storm Flow (Q _{st}) = 0.203 cfs |
| | Sanitary 0.042 cfs |
| | 0.245 cfs total |

| Roof Detention Calculations 1 | |
|--|-------------|
| Level: | Main Roof |
| SF ROOF AREA = | 4,708.00 |
| SF AREA AVAILABLE = | 4,035.00 |
| CW = | 0.95 |
| Q _{ALL} / Q _{RR} = | 0.11 CFS |
| $t_v = 0.27(C_w + A_1 / Q_{DRR})^{0.5} - 15$ | 39.45 min. |
| $V_v = [0.19C_w + A_1 / (t_v + 15) - 40Q_{DRR}] t_v$ | 442 sq. ft. |
| Req. V _v = | 442 sq. ft. |

| AVAILABLE BLUE ROOF AREA CALCULATIONS | |
|---------------------------------------|---|
| N _{dr} = | 5 |
| N _{weir} / dr = | 1 |

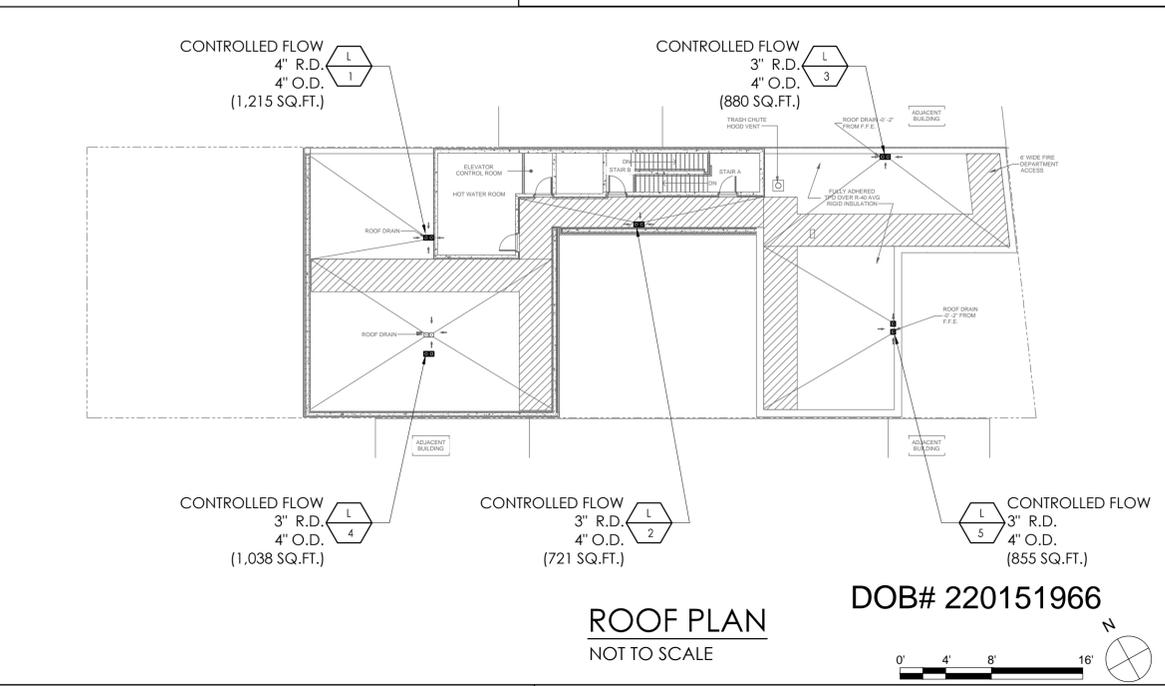
| Cont. flow orifice Calc. | |
|---|------|
| A = Q _v / (448.2 x Cd x √2gh) | 0.82 |
| Open Area in ² = | 0.82 |
| dia orifice(in) = (A / 3.14) ^{0.5} x 2 | 1.02 |
| d _o (in) = | 1.02 |

| RELEASE RATE PER DRAIN | |
|--|-----------|
| Q _v = Q _{DRR} Roof / N _{dr} | 0.082 CFS |
| Q _i = (0.11 / 5) | 0.022 CFS |

| DRAIN RELEASE RATE | |
|--------------------|-------------------|
| Q _v = | 5.00 gpm / DRAIN |
| Q _i = | 0.011 CFS / DRAIN |

| VOLUME OF STORAGE ASSUME 2-DIRECTIONAL ROOF | |
|---|-----------------------|
| HGT. OF SEC. DRAIN = | 3 INCHES |
| SLOPE = | 0.062 / FT 1/16" / FT |
| AVERAGE L / DRAIN = (AVAIL. AREA / 0.8) / #DRAINS/0.5 | 31.76 FT |
| AVERAGE W / DRAIN = (AVAIL. AREA / (AVERAGE L X #DRAINS)) | 25.41 FT |
| D _{st} = (AVERAGE L X SLOPE) / 2 | 0.98 IN. |
| D _{pr} = (AVERAGE W X SLOPE) / 2 | 0.79 IN. |
| S _{max} = (Q _{st} x 449) / (# Drains x Weirs / Drain x (gpm / IN / Weir)) | 1.98 |
| S _{max} = | 1.98 |

| 2-DIRECTIONAL AVAILABLE VOLUME | |
|---|---------------------|
| Bi-directional slp. V _{avail} (ft ³) = | 463 ft ³ |



ROOF PLAN
NOT TO SCALE

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Title: **PLUMBING SITE PLAN**

DOB# 220151966

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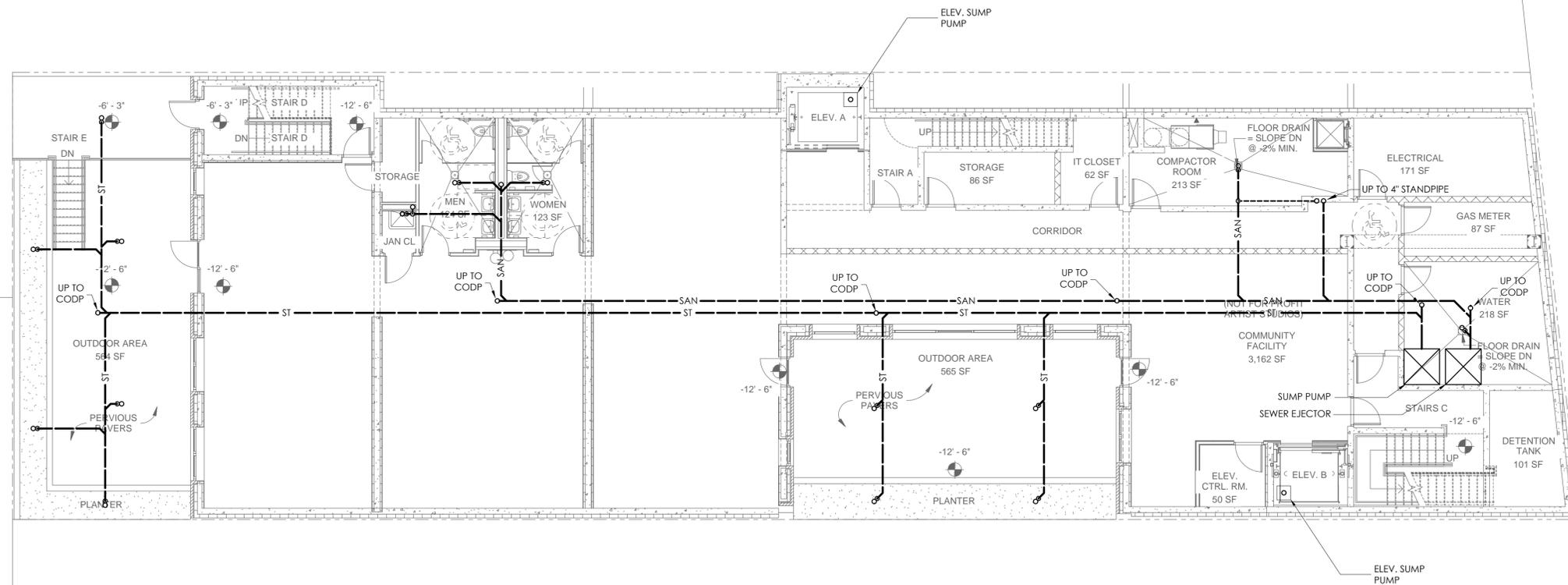
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Title:

PLUMBING UNDERSLAB PLAN



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1 Underslab Plan
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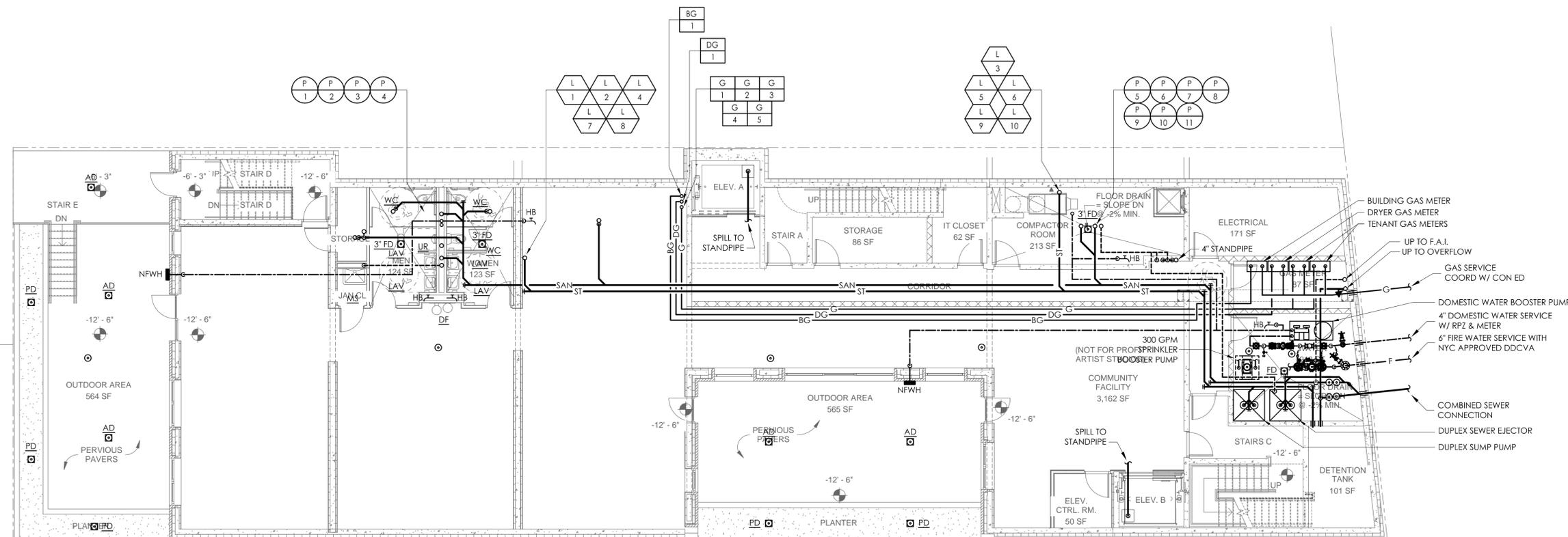
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Title:

PLUMBING BASEMENT PLAN



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NOTES:

1. PROVIDE A SIMPLEX ELEVATOR SUMP PUMP IN THE CELLAR, STANCOR MODEL SE50, 0.5HP, 208V 50 GPM 34FT TDH
2. ALL GAS PIPING IN PUBLIC CORRIDORS TO BE WELDED AND TESTED AND PROVEN TIGHT AT 10 PSIG FOR A MINIMUM OF 30 MINUTES.
3. PROVIDE TRAPGUARD BLADDERS IN ALL FLOOR DRAINS AS MFG. BY PROVENT.
4. DUPLEX DOMESTIC WATER BOOSTER PUMP W/VFD DRIVES, GRUNDFOS CR 10-2 VERTICAL MULTISTAGE, 50 GPM, 54 FT. TDH, 1.5 HP, 208V/3PH WITH GOULDS V250 83.5 GALLON TANK AND VFD DUPLEX CONTROLLER BY US PUMP CORP.
5. DUPLEX SEWER EJECTOR IN 4' X 4' X 6' DEEP CONC. PIT FLYGT MODEL 2" FP-3068-291, 50 GPM AT 30' TDH 3HP 308V 3PH WITH DUPLEX CONTROLLER, STEEL FRAME AND COVER AND LIQUID LEVEL SENSORS.
6. DUPLEX SUMP PUMP IN 4' X 4' X 9' DEEP CONC. PIT FLYGT MODEL DP 3068 MT 3-475 125 GPM, 25 FT HD EACH 3HP, 208V 3PH WITH DUPLEX CONTROL PANEL, STEEL FRAME & COVER AND LIQUID FLOAT SENSORS.

1 Basement Plan
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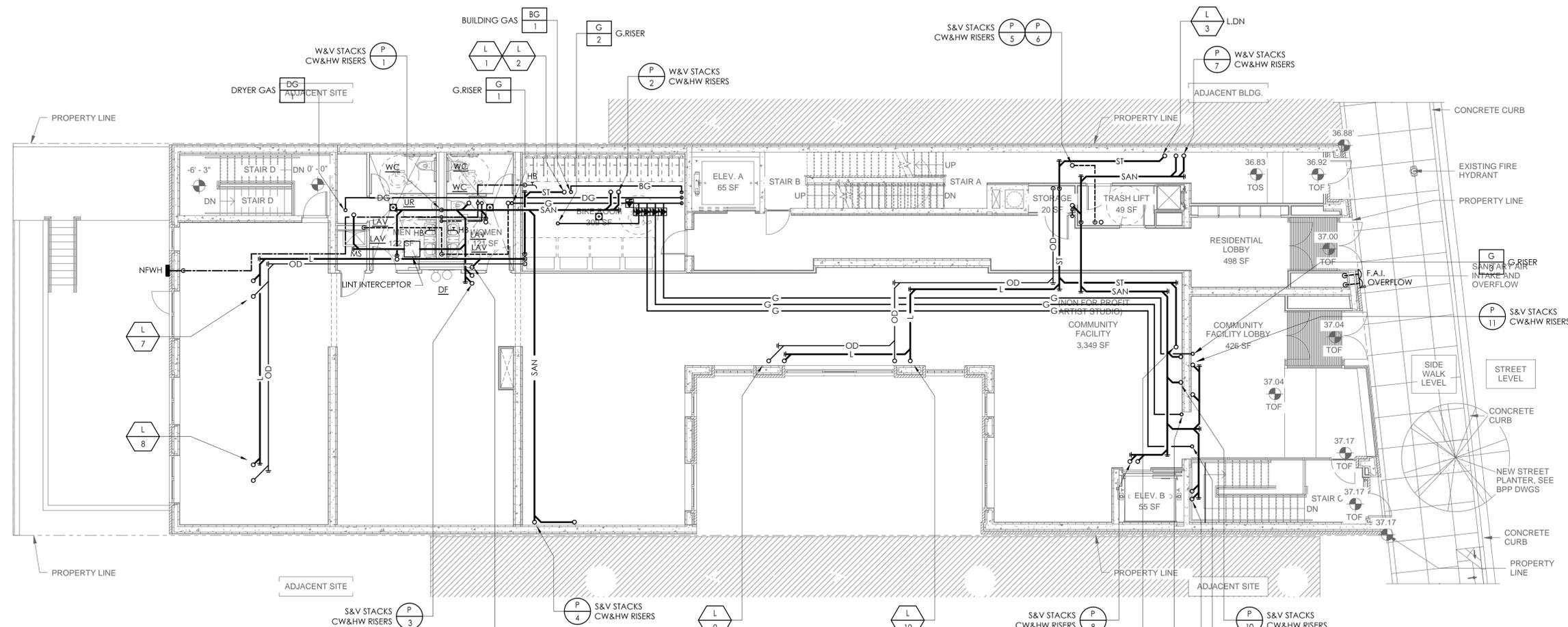
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PLUMBING PIPING CONNECTIONS:

1. **WC:** 4"S., 2"V., 1/2" CW.
2. **LAV:** 1/2"W. & V., 1/2"H.&CW.
3. **BT:** 1/2"W. & V., 1/2"H.&CW.
4. **SH:** 2"W. & V., 1/2"H.&CW.
5. **K.S.K.:** 2"W. 1/2"V., 1/2"H.&CW.
6. **DW:** 3/8" FLEXHOSE 1/2" HW.
7. **CL.W.:** 2"W. & 1/2" H.&CW.
8. **MS:** 3"W. 1/2"V., 3/4"H.&CW.

FOR HOT & COLD WATER PIPE SIZES REFER TO WATER RISER DIAGRAM.

1 First Floor Plan
 1/8" = 1'-0"

KEY PLAN



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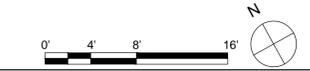
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PLUMBING FIRST FLOOR PLAN

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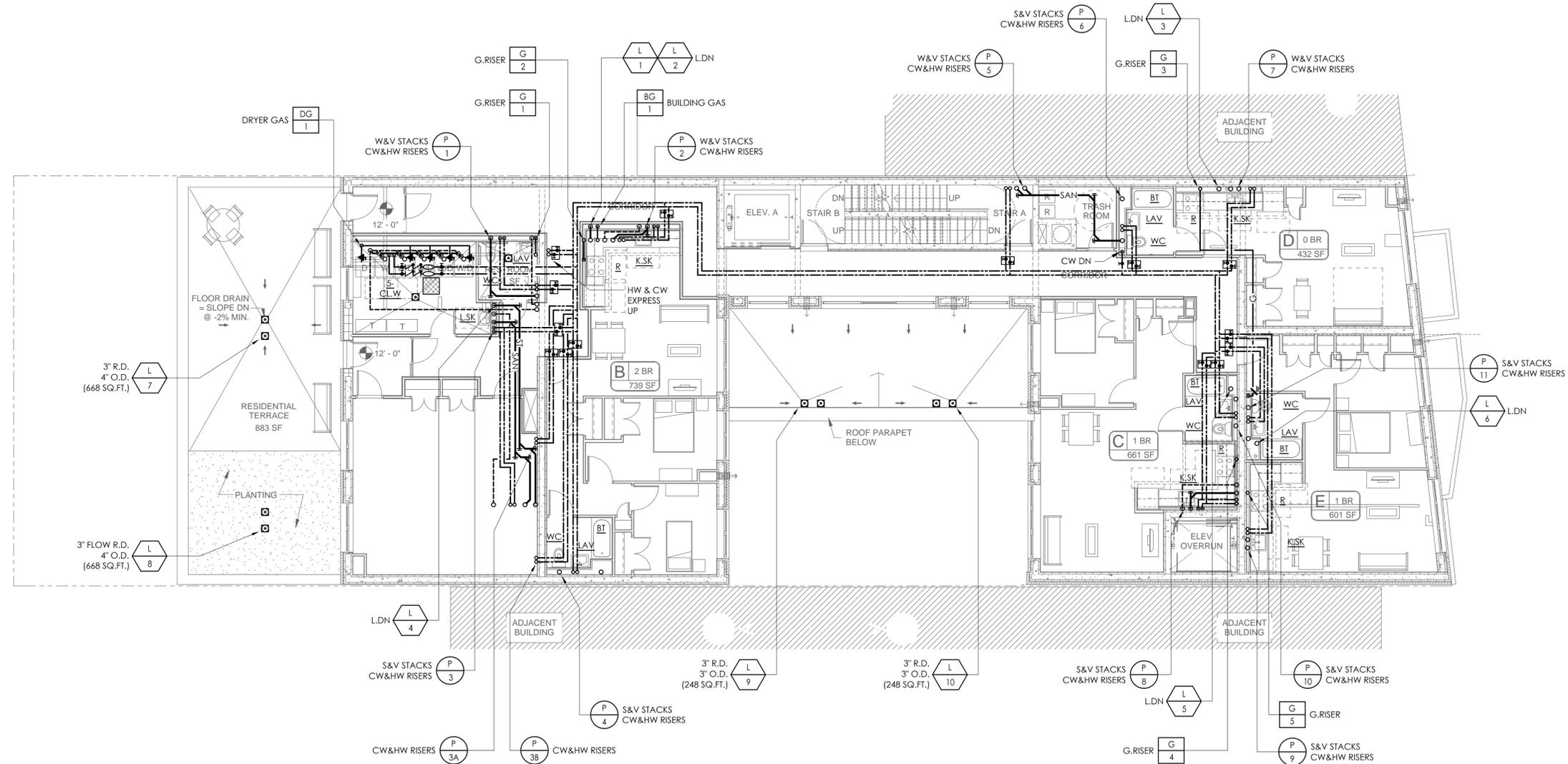
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Title:

PLUMBING 2ND FLOOR PLAN



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1 2nd Floor Plan
1/8" = 1'-0"



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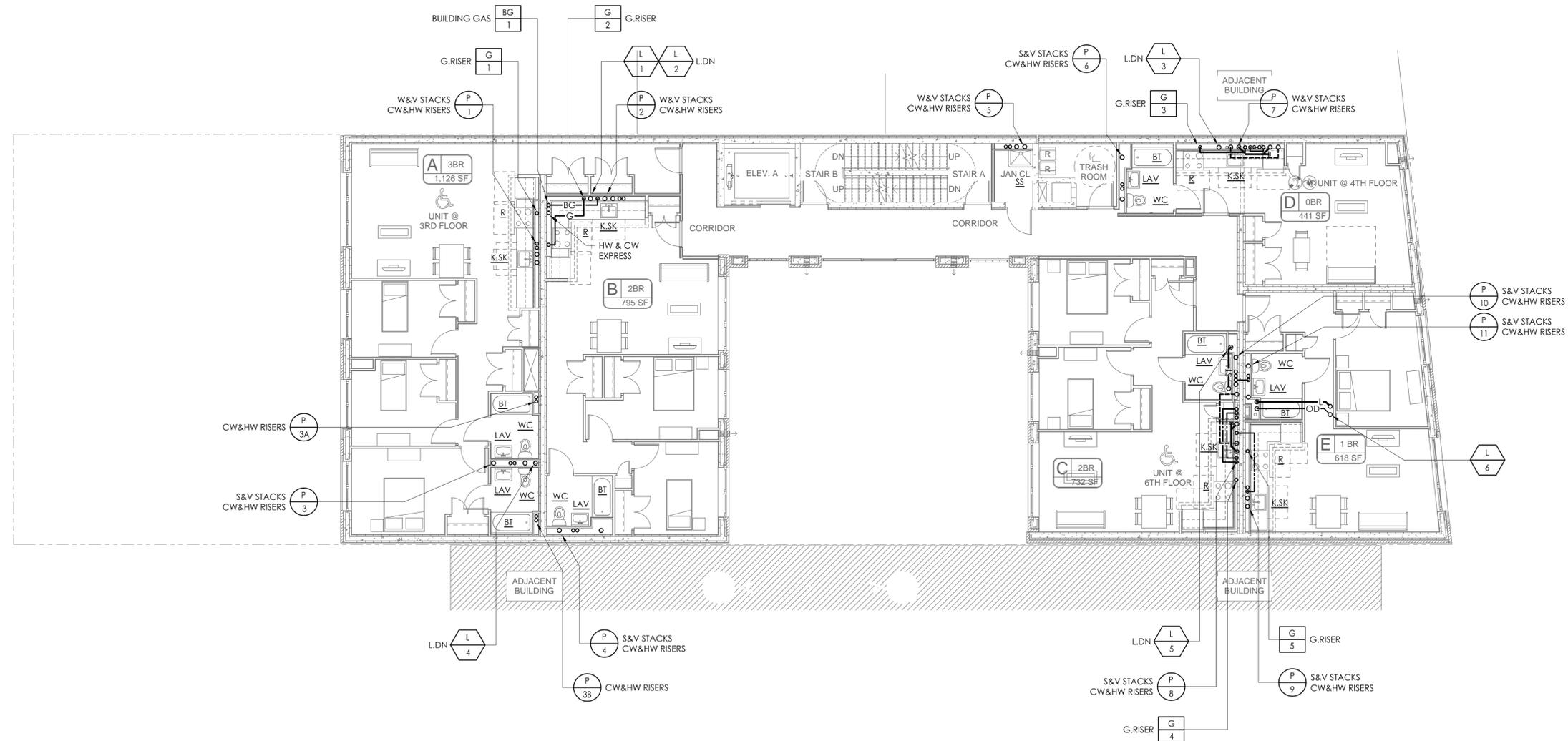
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1 3rd - 6th Floor Plan
 1/8" = 1'-0"

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Title:

PLUMBING 3RD-6TH FLOOR PLANS



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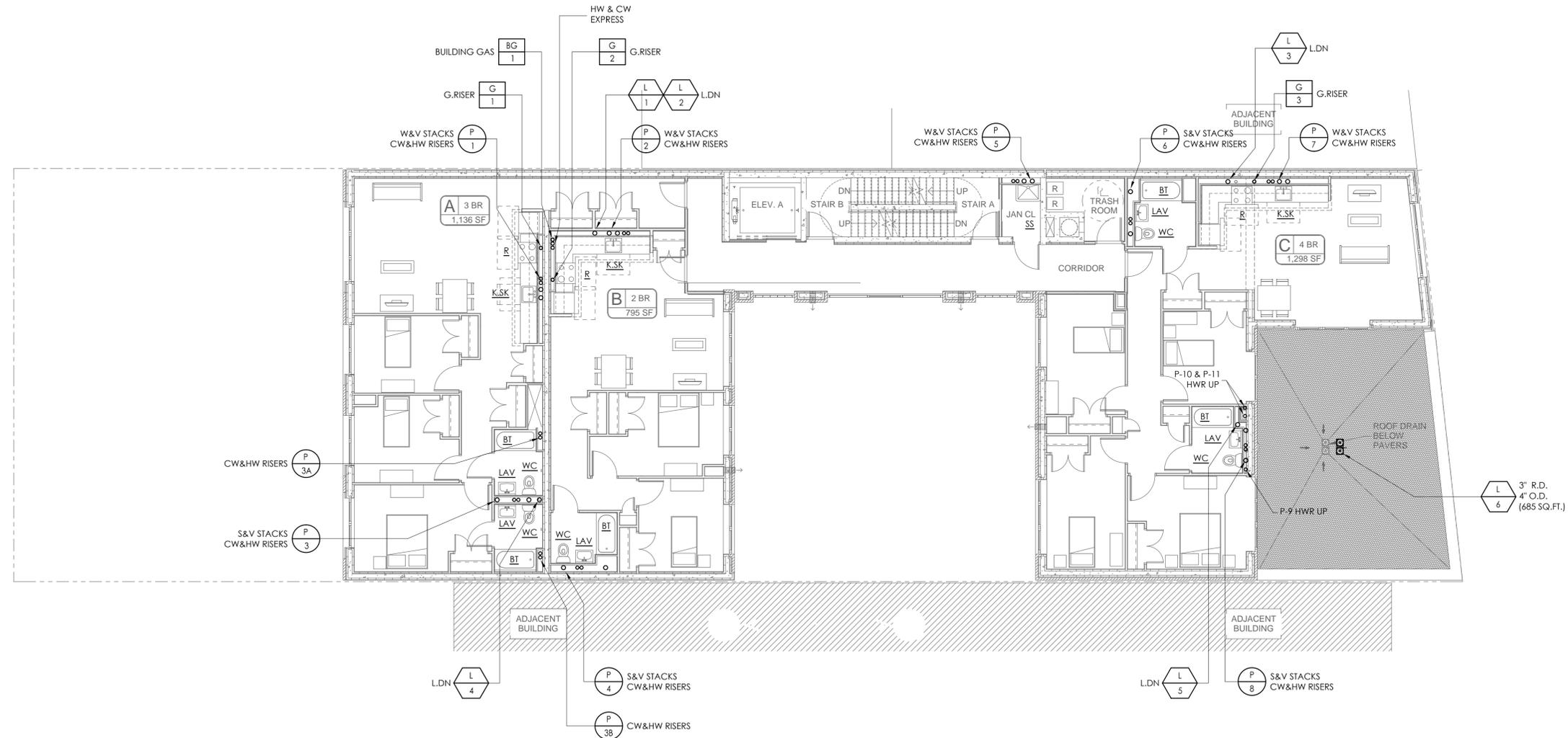
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① 7th Floor Plan
1/8" = 1'-0"

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PLUMBING 7TH FLOOR PLAN



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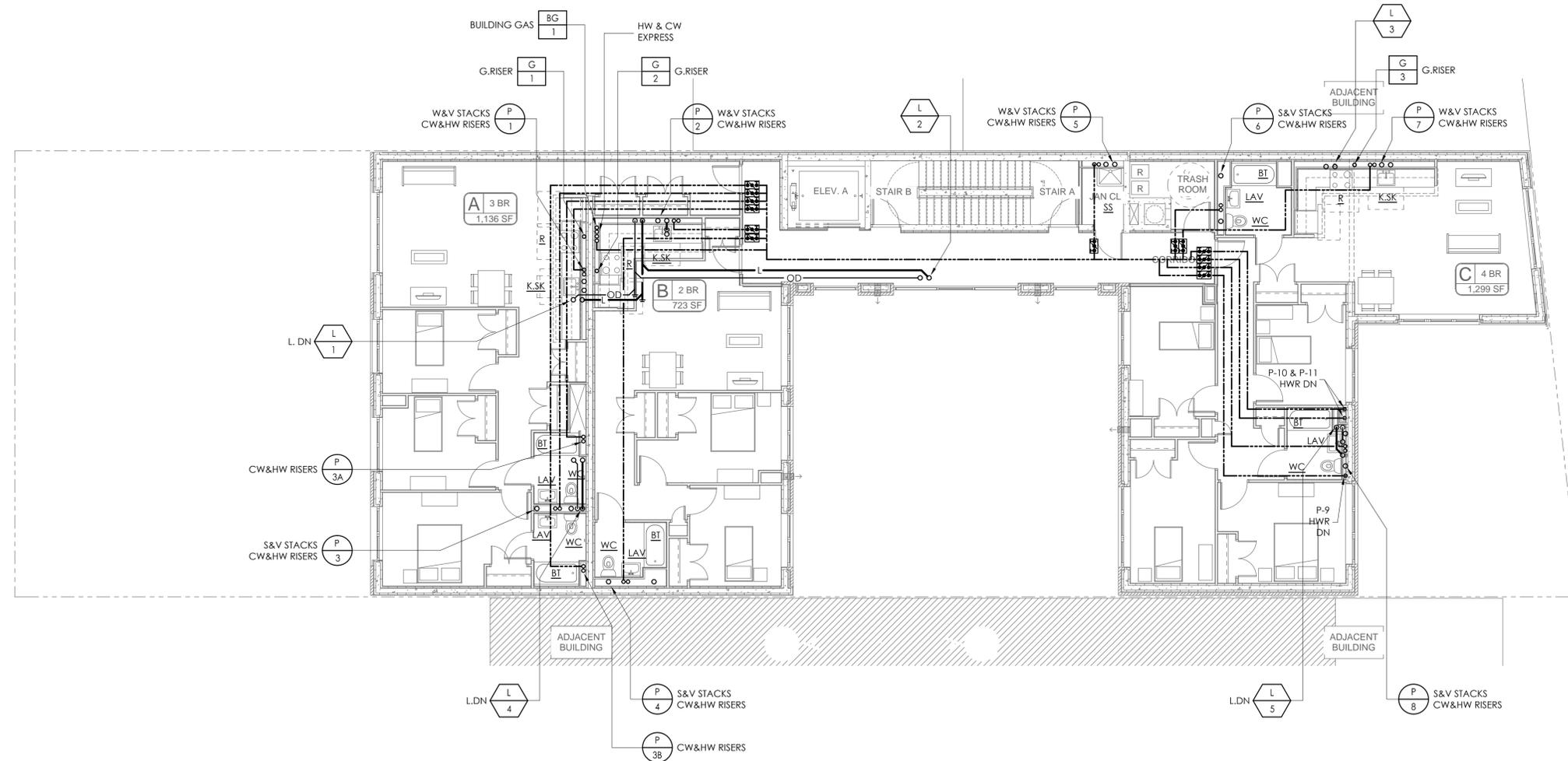
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1 8th Floor Plan
 1/8" = 1'-0"

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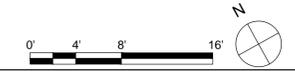
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PLUMBING 8TH FLOOR PLAN



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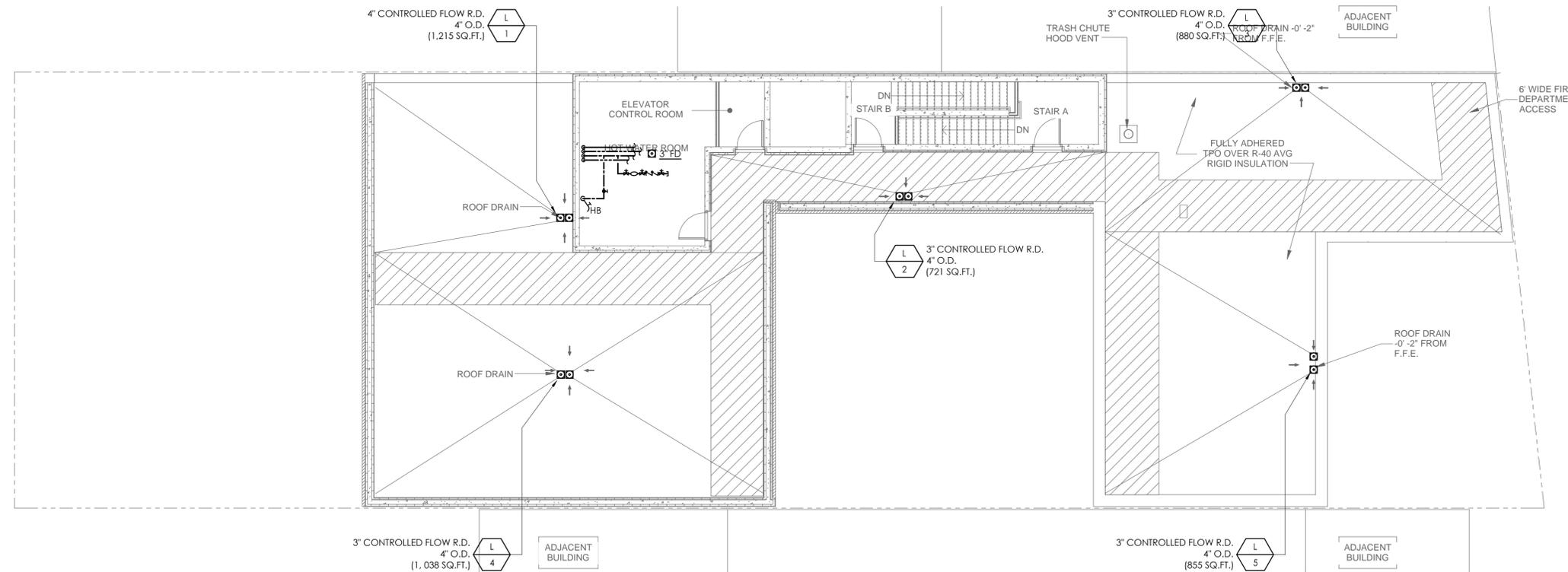
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PLUMBING ROOF PLAN



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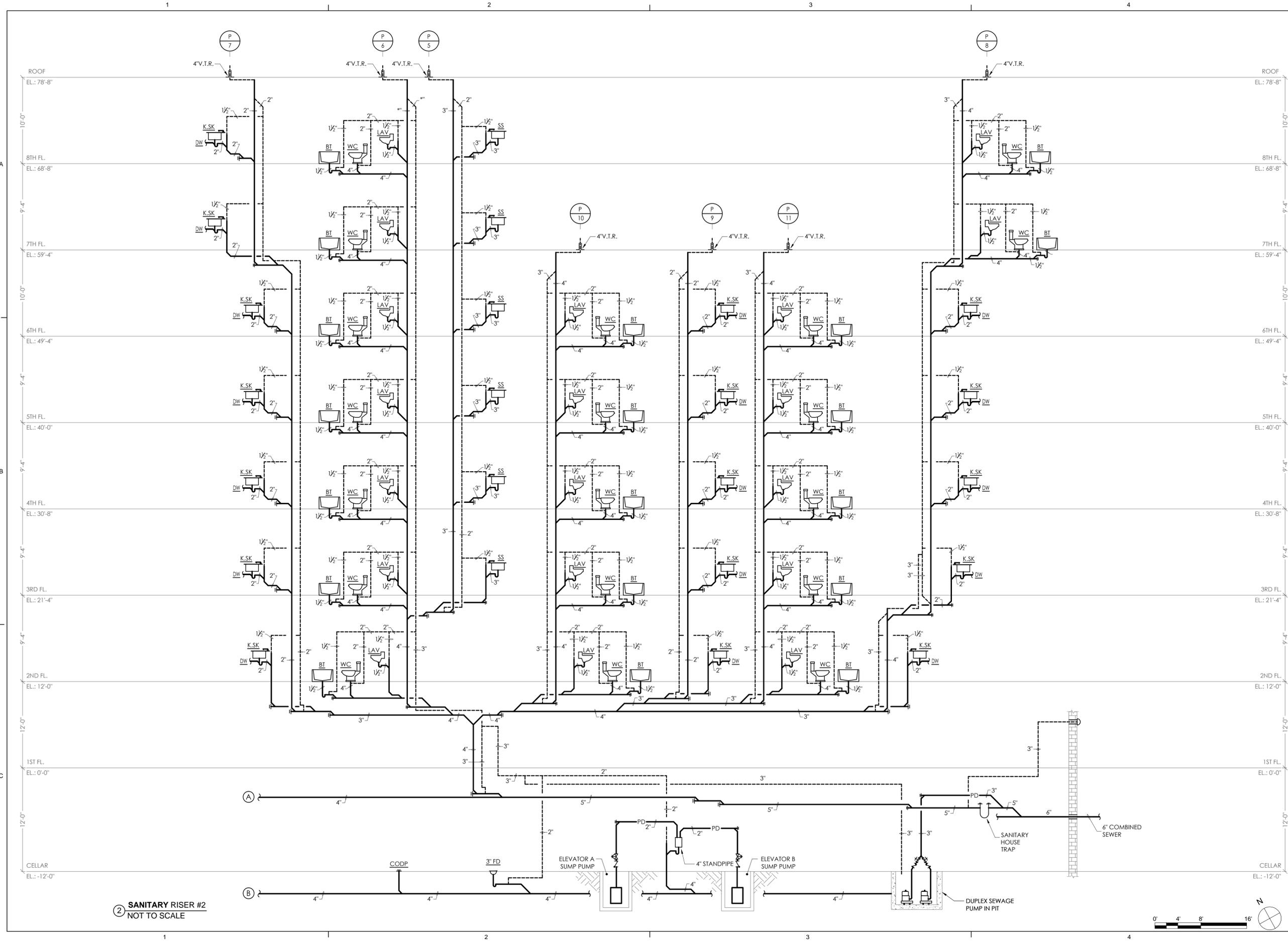
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1 Roof Plan
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② SANITARY RISER #2
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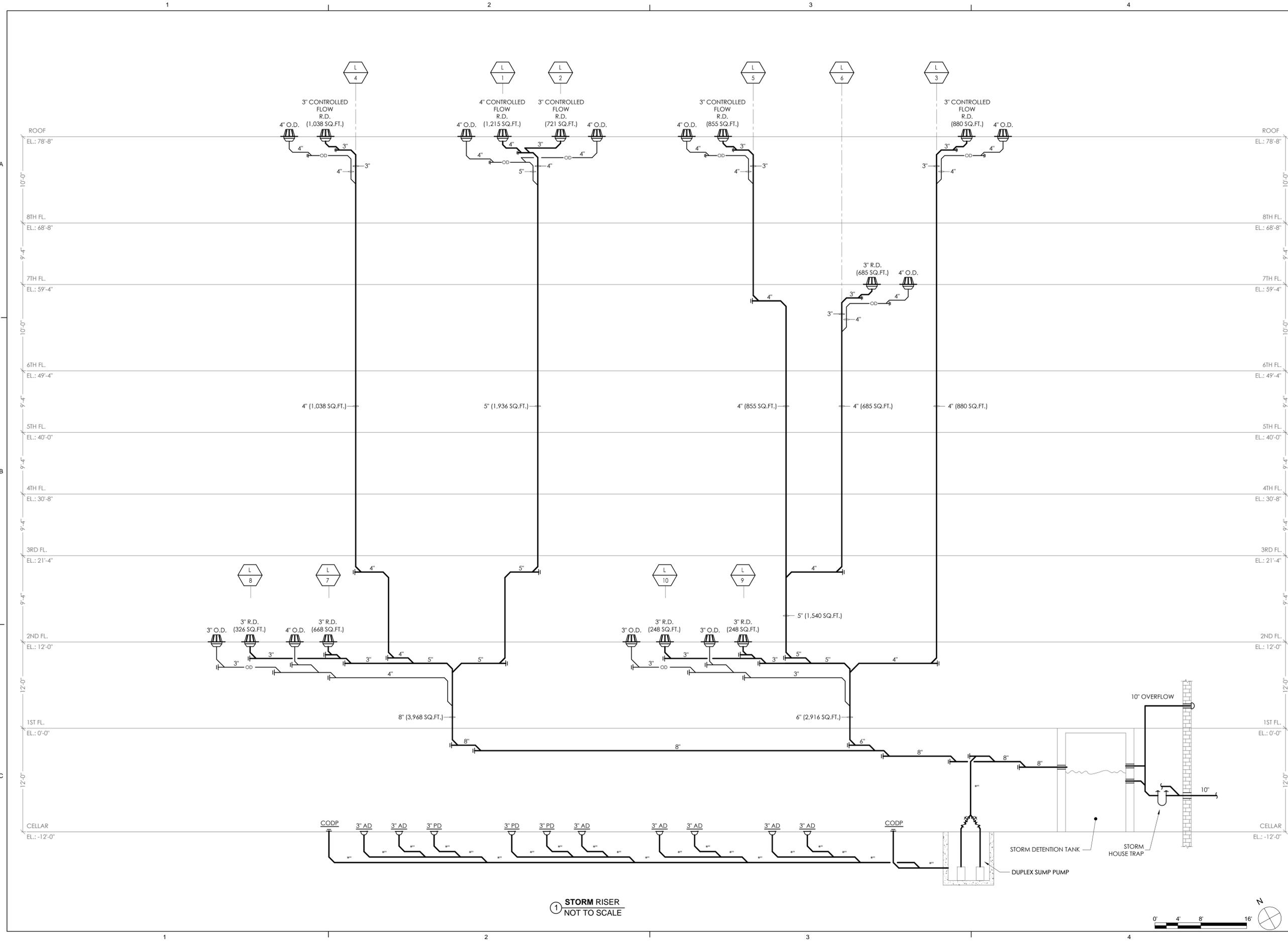
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PLUMBING SANITARY RISER DIAGRAM #2



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1 STORM RISER
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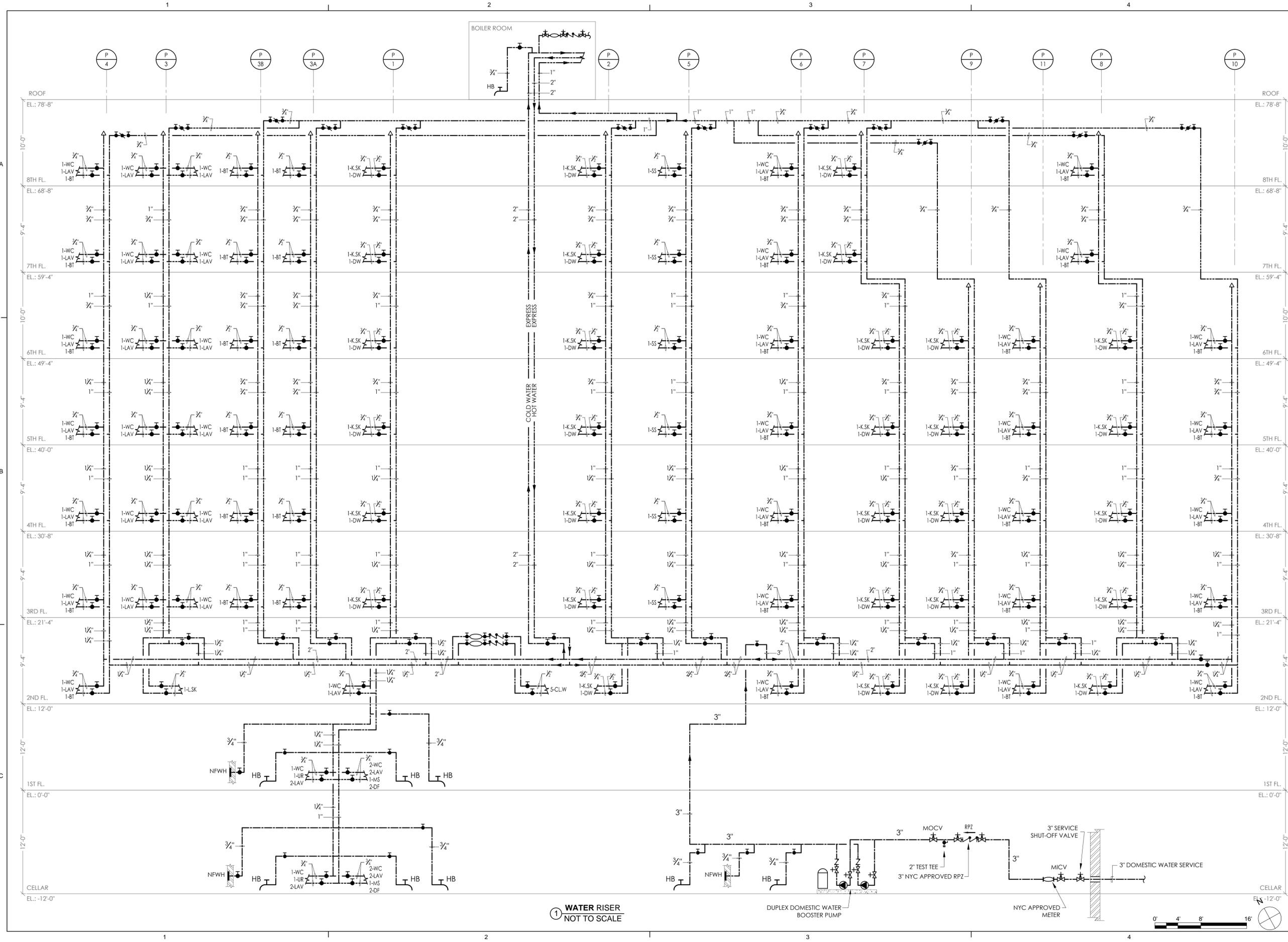
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PLUMBING STORM RISER DIAGRAM



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1 WATER RISER
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Title:

PLUMBING WATER RISER DIAGRAM

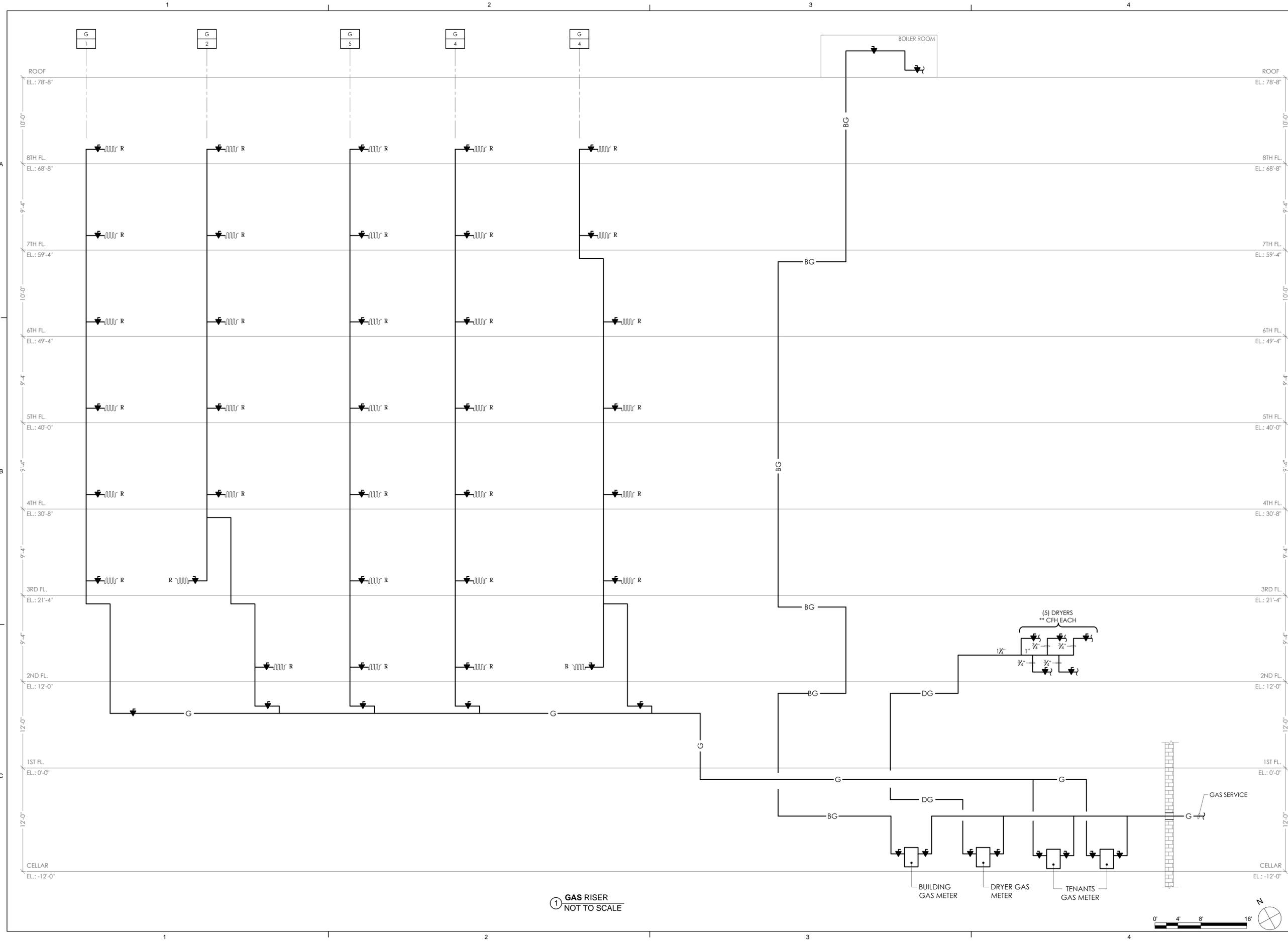


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of



① GAS RISER
NOT TO SCALE



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BPP
SULLIVAN GROUP DESIGN, LLC
109 West 27th Street
New York, NY 10001

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PLUMBING GAS RISER DIAGRAM



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GENERAL NOTES

1. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL CONDITIONS AND SHALL CALL SAME TO THE ATTENTION OF THE ARCHITECT AND CONSTRUCTION MANAGER IF THEY VARY FROM THE LOCATIONS INDICATED IN THE DRAWINGS. THE DRAWINGS ARE NOT TO BE SCALED.
2. ALL PLUMBING WORK SHALL BE IN STRICT ACCORDANCE WITH THE RULES AND REGULATIONS GOVERNING PLUMBING AND DRAINAGE WORK; SHALL CONFORM TO ALL OTHER APPLICABLE REGULATIONS AND SHALL MEET REQUIREMENTS OF INSPECTING AUTHORITIES INCLUDING THE NYC BUILDING CODE.
3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. EXACT LOCATION SHALL BE COORDINATED WITH ALL TRADES, ARCHITECTURAL DRAWINGS, GENERAL CONTRACTOR AND PRIME CONTRACTOR.
4. ALL EXPOSED PIPING PENETRATIONS THROUGH WALLS OR CEILINGS SHALL BE PROVIDED WITH APPROPRIATE FIRE RETARDANT SEALANT AND ESCUTCHEONS.
5. ALL FIXTURES TO BE SEALED WHERE FIXTURE COMES IN CONTACT WITH WALLS OR FLOOR WITH CLEAR SEALANT.
6. COORDINATE ALL WORK WITH ALL OTHER CONTRACTORS PERTAINING TO THE LOCATION OF PLUMBING AND DRAINAGE PIPING HVAC WORK, LIGHTING FIXTURES, AND ELECTRICAL, PROVIDE ALL NECESSARY PIPING OFFSETS AND CHANGES IN DIRECTION TO ACCOMPLISH A COMPLETE INSTALLATION.
7. SUBMISSION OF A PROPOSAL SHALL BE EVIDENCE THAT A CAREFUL EXAMINATION OF THE SITE, DRAWINGS & SPECIFICATIONS HAS BEEN MADE AND THE CONTRACTOR IS FAMILIAR WITH THOSE ITEMS AND AREAS THAT WILL PRESENT DIFFICULTY TO THE PERFORMANCE OF THIS CONTRACT. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT, ETC NECESSARY TO COMPLETE ALL WORK AS A RESULT OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN.
 - A. ALL DIMENSIONS AND EXISTING SITE CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THIS SITE BEFORE PROCEEDING WITH ANY WORK.
8. SANITARY DRAINAGE SHALL HAVE A UNIFORM GRADE OF 1/4" PER FOOT, FOR 2 1/2" AND SMALLER AND AN 1/8" PER FOOT FOR 3" OR LARGER, U.O.N.
9. PROVIDE CLEANOUTS. CLEANOUTS SHALL BE SAME SIZE AS THE PIPES THEY SERVE UP TO 4 INCHES, AND NOT LESS THAN 4 INCHES FOR LARGER PIPING.
10. PROVIDE CLEANOUTS FOR CHANGES IN DIRECTION FOR ALL SANITARY PIPING.
11. TEMPORARY FACILITIES TO REMAIN OPERATIONAL DURING CONSTRUCTION. TEMPORARILY ROUTING OF PIPING SHALL BE PROVIDED AS NOT TO INTERFERE WITH NEW CONSTRUCTION EXCEPT AS OTHERWISE DIRECTED BY OWNERS REPRESENTATIVE.
12. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH RESPECT TO OTHER TRADES, STRUCTURE AND CEILING HEIGHTS. CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECTURAL LAYOUTS, INCLUDING CEILING HEIGHTS.
13. PROVIDE EACH FLOOR DRAIN WITH A 'TRAP GUARD' BY ProVent SYSTEM.

N.Y.C. BUILDING DEPARTMENT NOTES

THE PLUMBING SYSTEMS (SANITARY, STORM WATER, VENT, WATER DISTRIBUTION) AND ALL ASSOCIATED EQUIPMENT SHALL BE CONSTRUCTED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NEW 2014 NEW YORK CITY BUILDING CODE, AS CITED IN CHAPTER 29 AND REFERENCED TO THE NEW YORK CITY PLUMBING CODE(NYCPC).

1. THE SANITARY SYSTEM SHALL BE IN FULL ACCORDANCE WITH THE GENERAL PROVISIONS IN THE NYCPC- CHAPTER 7; SANITARY DRAINAGE.
2. THE MATERIALS USED IN THE PLUMBING SYSTEM SHALL BE PROVIDED IN FULL ACCORDANCE WITH SECTION PC702-MATERIALS AND PC605-MATERIALS, JOINTS & CONNECTIONS.
3. EQUIPMENT HOOK-UP AND THE JOINING OF PIPING SHALL BE IN FULL COMPLIANCE WITH SECTION PC705-JOINTS AND PC706-CONNECTION BETWEEN DRAINAGE PIPING AND FITTING.
4. ALL FIXTURES SHALL COMPLY WITH THE REQUIREMENTS OUTLINED IN THE NYCPC- CHAPTER 4; FIXTURES, FAUCETS AND FITTINGS.
5. THE INSTALLATION OF FIXTURES WILL BE IN FULL ACCORDANCE WITH SECTION PC405- INSTALLATION OF FIXTURES.
6. TRAPS FOR FIXTURES AND DRAIN LINES WILL BE PROVIDED AND CLEANOUTS INSTALLED IN FULL ACCORDANCE WITH PC708- CLEANOUTS AND PC1002- TRAP REQUIREMENTS.
7. VERTICAL AND HORIZONTAL PIPING WILL BE HUNG AND SUPPORTED IN THE FULL COMPLIANCE WITH PC308- PIPING SUPPORT.
8. THE WATER SUPPLY SYSTEM SHALL BE INSTALLED IN FULL COMPLIANCE WITH THE NYCPC- CHAPTER 6; WATER SUPPLY AND DISTRIBUTION.
9. THE SANITARY DRAINAGE SYSTEM SHALL BE INSTALLED IN FULL COMPLIANCE WITH THE NYCPC- CHAPTER 7; SANITARY DRAINAGE.
10. THE VENT PIPING FOR THE SANITARY DRAINAGE SYSTEM SHALL BE INSTALLED IN FULL COMPLIANCE WITH THE NYCPC- CHAPTER 9; VENTS.
11. CHANGES IN DIRECTION IN DRAINAGE PIPING SHALL BE MADE WITH APPROPRIATE USE OF 45 DEGREE WYES, LONG SWEEPS, SHORT SWEEPS, SIXTH, EIGHT OR SIXTEENTH BENDS OR BY A COMBINATION OF THESE OR EQUIVALENT FITTINGS.
12. SANITARY TEES AND QUARTER BENDS MAY BE USED IN DRAINAGE LINES ONLY WHERE THE DIRECTION OF FLOW IS FROM THE HORIZONTAL TO THE VERTICAL.
13. SHORT SWEEPS WILL BE PERMITTED IN DRAINAGE PIPING 3 INCH DIAMETER OR LARGER FOR ANY OFFSETS EITHER HORIZONTAL OR VERTICAL.
14. PROTECTION OF PIPING AS OUTLINED IN PC305- PROTECTION OF PIPES AND PLUMBING SYSTEM COMPONENTS, SHALL BE PROVIDED AS REQUIRED.
15. TESTS AND INSPECTIONS OF PLUMBING PIPING SYSTEMS SHALL BE IN ACCORDANCE WITH NYCPC-SECTION PC 312.
16. STORM DRAINAGE PIPING AND SIZING SHALL BE IN ACCORDANCE WITH NYCPC-CHAPTER 11; STORM DRAINAGE.
17. INDIRECT, SPECIAL AND MISCELLANEOUS PIPING SHALL BE AS DIRECTED IN THE NYCPC-CHAPTER 8; INDIRECT/SPECIAL WASTE.
18. GAS PIPING INSTALLATION, MATERIAL AND SIZES SHALL ADHERE TO THE NEW NEW YORK CITY FUEL GAS CODE.
19. ALL PLUMBING FIXTURES SHALL COMPLY WITH LOCAL LAW 29/89- LOW FLOW FIXTURES.
20. RODENT PROOFING SHALL COMPLY WITH SECTION PC304- RODENT PROOFING.

INSULATION REQUIREMENTS:

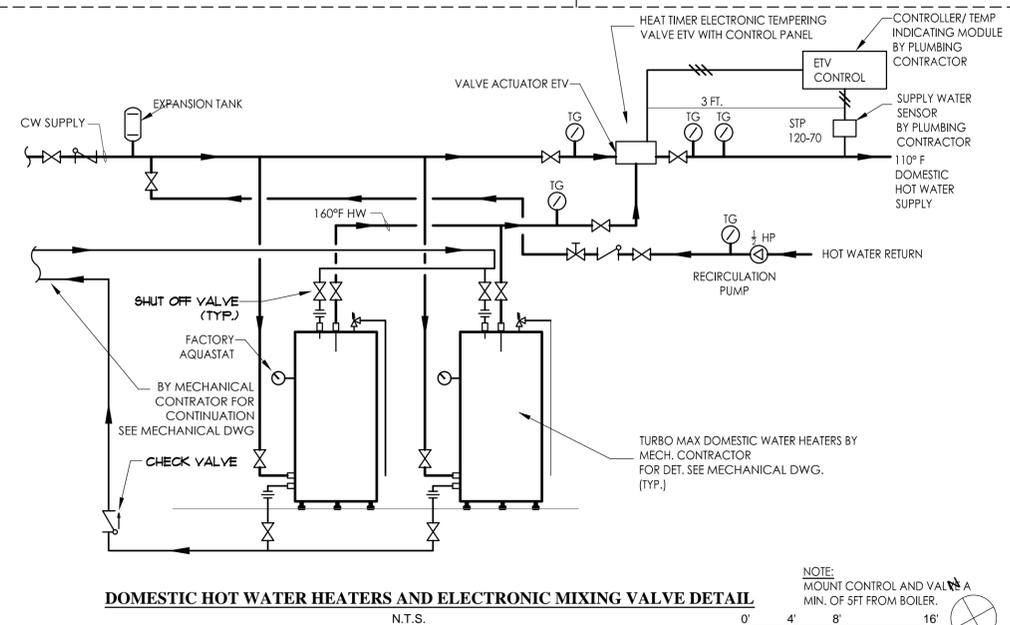
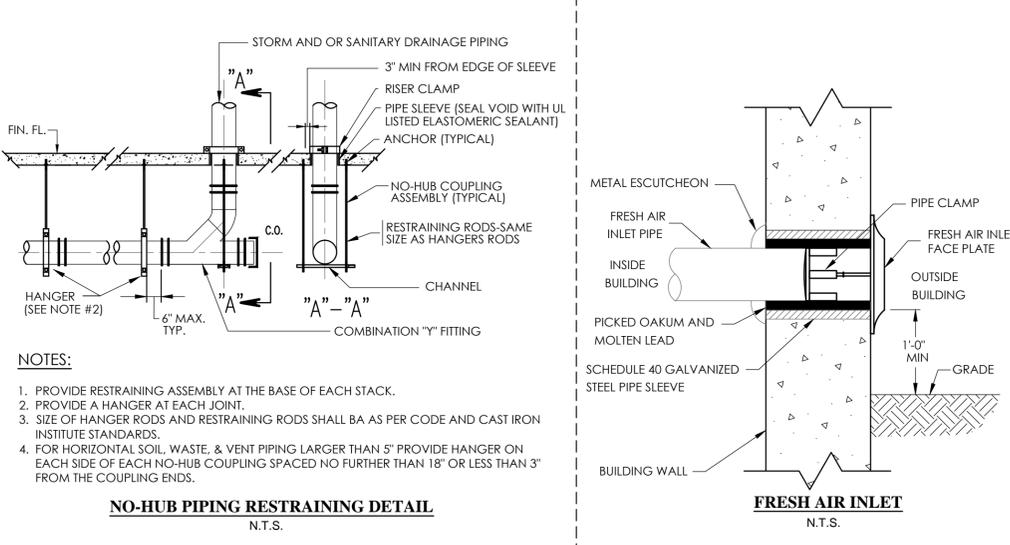
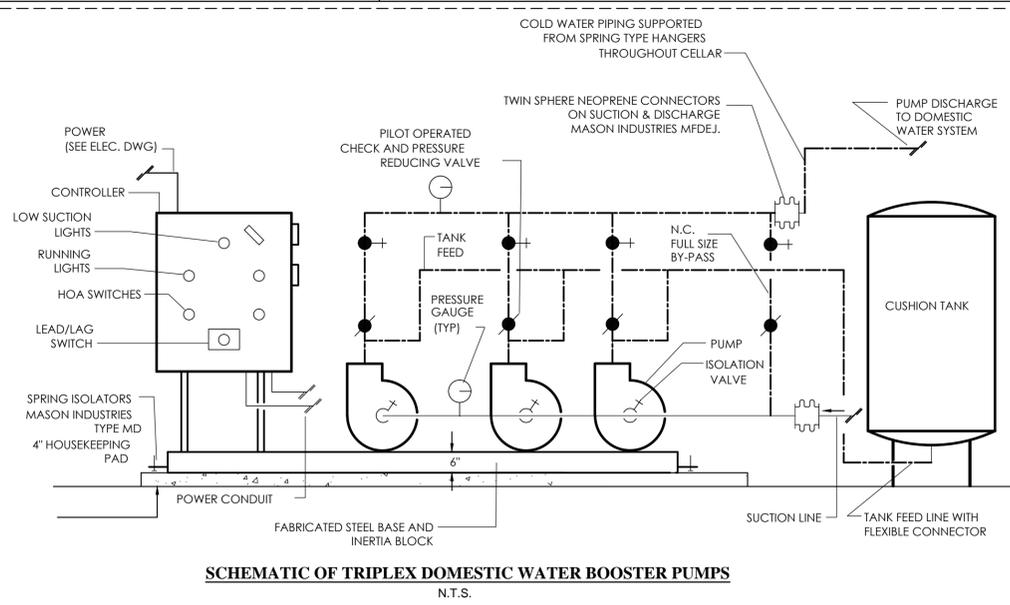
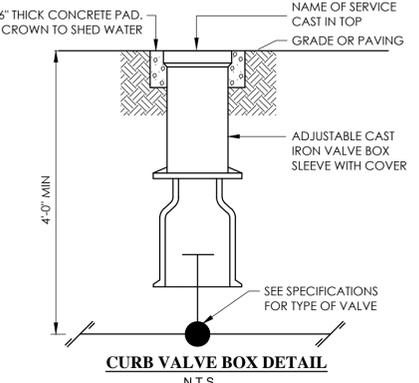
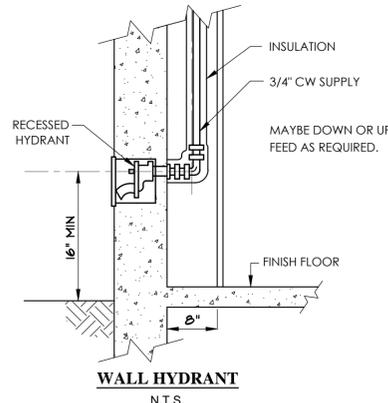
- COLD WATER PIPING**
 1. COLD WATER - ALL SIZES - 1" INSULATION, A.S. JACKET.
 2. STORM DRAINAGE PIPING ALL HORIZONTAL RUNS AND DRAIN BODY - MINIMUM 1" INSULATION, A.S. JACKET.
- HOT WATER PIPING**
 1. HOT WATER - 1/2" TO 2" I.D. - 1" INSULATION, A.S. JACKET.
 2. HOT WATER SUPPLY - 2 1/2" AND LARGER - 1 1/2" INSULATION, A.S. JACKET.
 3. HOT WATER CIRCULATING - ALL SIZES - 1" INSULATION, A.S. JACKET.

ENERGY CODE COMPLIANCE NOTES:

1. SERVICE WATER HEATING EQUIPMENT PERFORMANCE EFFICIENCY: WATER HEATING EQUIPMENT AND HOT WATER STORAGE TANKS SHALL MEET THE REQUIREMENTS OF TABLE 504.2 OF THE ENERGY CONSERVATION CODE OF NYS. THE EFFICIENCY SHALL BE VERIFIED THROUGH DATA FURNISH BY THE MANUFACTURER OR THROUGH CERTIFICATION UNDER AN APPROVED CERTIFICATION PROGRAM.
2. TEMPERATURE CONTROLS: SERVICE WATER HEATING EQUIPMENT SHALL BE PROVIDED WITH CONTROLS TO ALLOW A SET POINT OF 110°F (43°C) FOR EQUIPMENT SERVING DWELLING UNITS AND 90°F (32°C) FOR EQUIPMENT SERVING OTHER OCCUPANCIES. THE OUTLET TEMPERATURE OF LAVATORIES IN PUBLIC FACILITY REST ROOMS SHALL BE LIMITED TO 110°F (43°C).
3. PIPE INSULATION: FOR AUTOMATIC CIRCULATING HOT WATER SYSTEMS, PIPING SHALL BE INSULATED WITH 1 INCH (25mm) OF INSULATION HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/HxFT²x°F (1.53 W PER 25 mm/m²xK). REFER TO INSULATION REQUIREMENTS ABOVE. THE FIRST 8 FEET (2438mm) OF PIPING IN NONCIRCULATING SYSTEMS SERVED BY EQUIPMENT WITHOUT INTEGRAL HEAT TRAPS SHALL BE INSULATED WITH 0.5 INCH (12.7mm) OF MATERIAL HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/HxFT²x°F (1.53 W PER 25mm/m²xK).
4. HOT WATER SYSTEM CONTROLS: AUTOMATIC CIRCULATING HOT WATER SYSTEM PUMPS OR HEAT TRACE SHALL BE ARRANGED TO BE CONVENIENTLY TURNED OFF AUTOMATICALLY OR MANUALLY WHEN THE HOT WATER SYSTEM IS NOT IN OPERATION.

SYMBOL LIST

| | | | |
|-------------|----------------------------------|--------|--------------------------|
| —S— | SANITARY DRAINAGE PIPING (S) | | |
| —ST— OR —L— | STORM WATER DRAINAGE PIPING (ST) | | |
| — | UNDERGROUND DRAINAGE PIPING | | |
| —V— | VENT PIPING (V) | | |
| — | COLD WATER PIPING (CW) | | |
| — | HOT WATER PIPING (HW) | | |
| — | HOT WATER PIPING RETURN (HWR) | | |
| —G— | GAS PIPING (G) | | |
| —BG— | BOILER GAS LINE (BG) | | |
| —DG— | DRYERS GAS LINE (DG) | | |
| — | EJECTOR DISCHARGE | | |
| —SP— | SPRINKLER PIPING | | |
| — | CONTROL VALVE | GD | GARAGE DRAIN |
| — | CHECK VALVE | GPM | GALLON PER MINUTE |
| — | GAS VALVE | (H)WC | HANDICAPPED FIXTURES |
| — | | (H)LAV | |
| — | | (H)BT | |
| — | SOLENOID VALVE (SV) | HB | HOSE BIBB |
| — | | HP | HORSEPOWER |
| — | | HT | HOUSE TRAP |
| — | | HWH | HOT WATER HEATER |
| — | CLEANOUT | IE | INVERT ELEVATION |
| — | | K.SK | KITCHEN SINK |
| — | | LAV | LAVATORY |
| — | | MH | MANHOLE |
| — | | NFWH | NONE FREEZE WALL HYDRANT |
| — | | PD | PLANTER DRAIN |
| — | | PL | PROPERTY LINE |
| — | | Q | FLOW RATE |
| — | | R | RANGE |
| — | | RCV | RISER CONTROL VALVE |
| — | | RD | ROOF DRAIN |
| — | | RPM | REVOLUTIONS PER MINUTE |
| — | | SF.FT. | SQUARE FEET |
| — | | SS | SERVICE SINK |
| — | | T | TIME |
| — | | TD | TERRACE DRAIN |
| — | | TYP | TYPICAL |
| — | | VB | VACUUM BREAKER |
| — | | VTR | VENT THRU ROOF |
| — | | W | WASTE |
| — | | WC | WATER CLOSET |
| — | | W/D | WASHER/DRYER |
| — | | WH | WALL HYDRANT |



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**PLUMBING
DETAIL SHEET #1**

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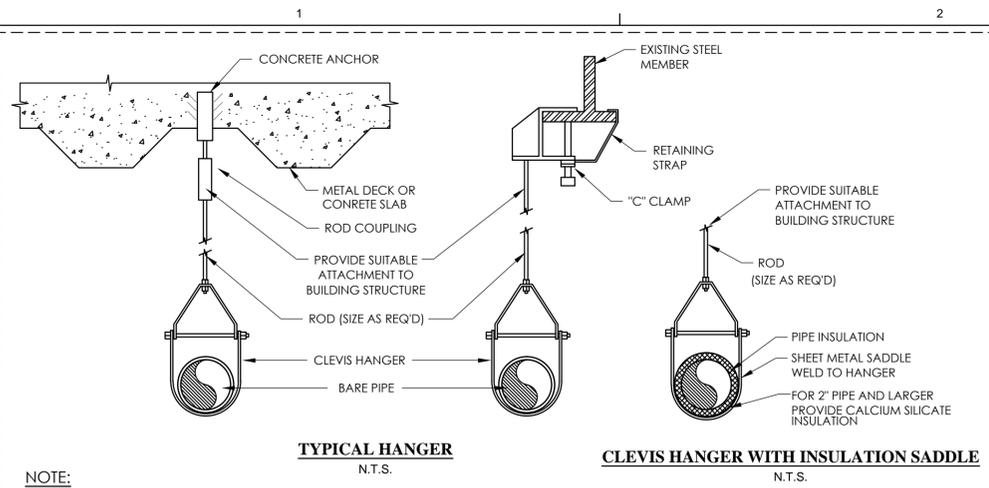
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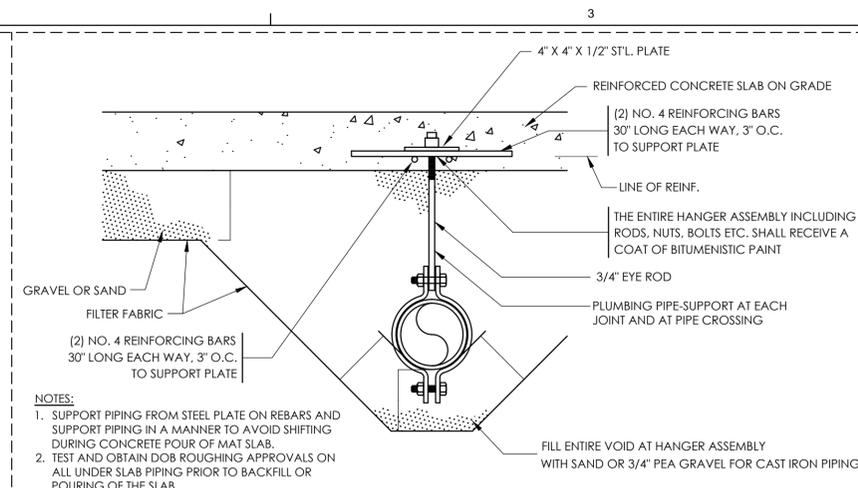
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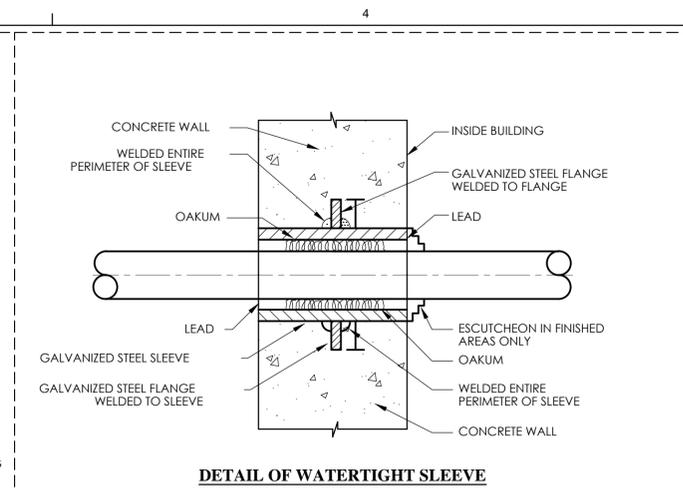
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NOTE:
CLEVIS HANGERS REQUIRED ON PIPING LARGER THAN 1". GENERAL PURPOSE HANGERS MAY BE USED ON 1" AND SMALLER PIPING ONLY.



NOTES:
1. SUPPORT PIPING FROM STEEL PLATE ON REBARS AND SUPPORT PIPING IN A MANNER TO AVOID SHIFTING DURING CONCRETE POUR OF MAT SLAB.
2. TEST AND OBTAIN DOB ROUGHING APPROVALS ON ALL UNDER SLAB PIPING PRIOR TO BACKFILL OR POURING OF THE SLAB.



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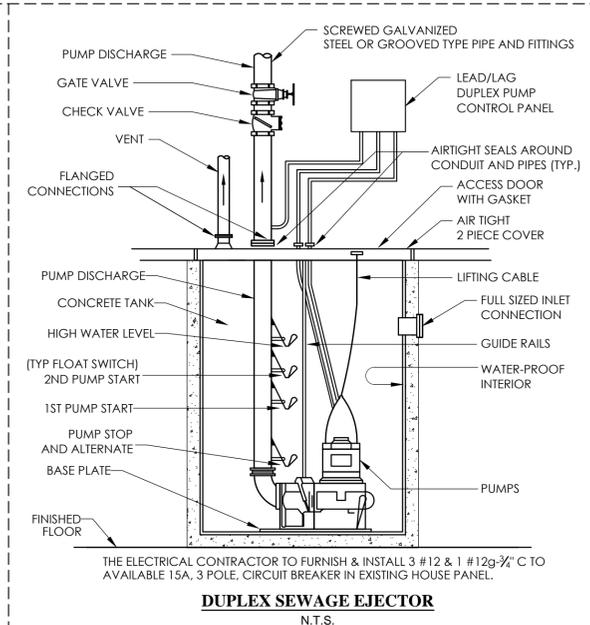
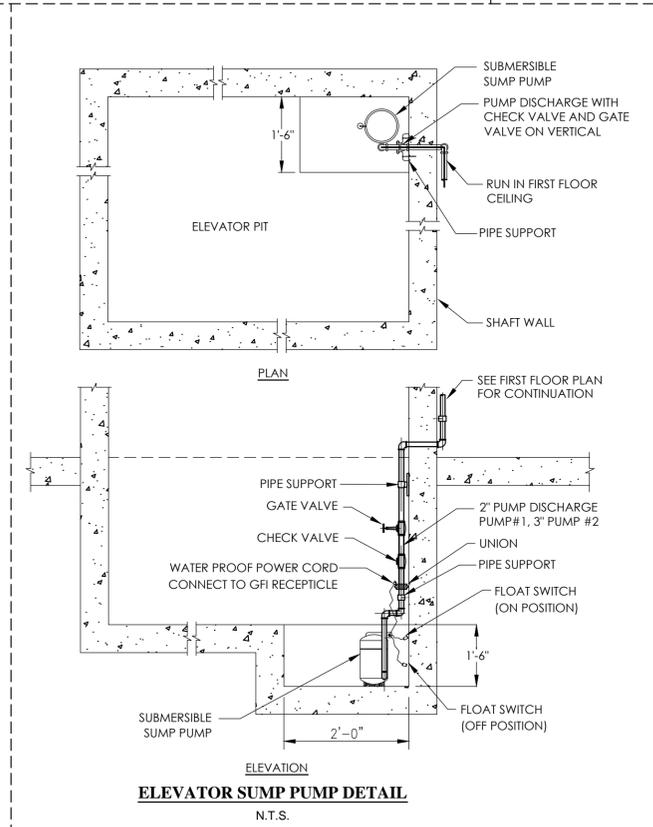
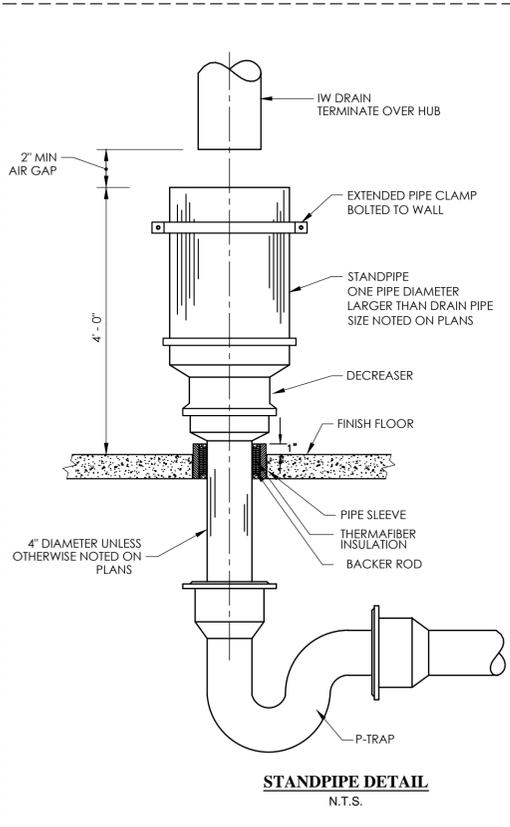
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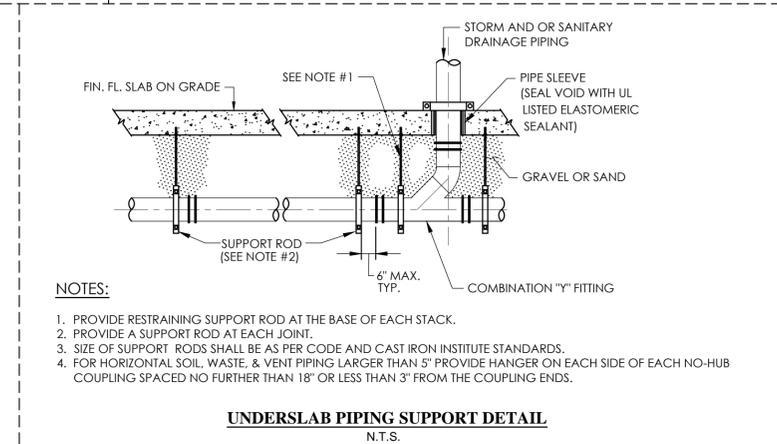
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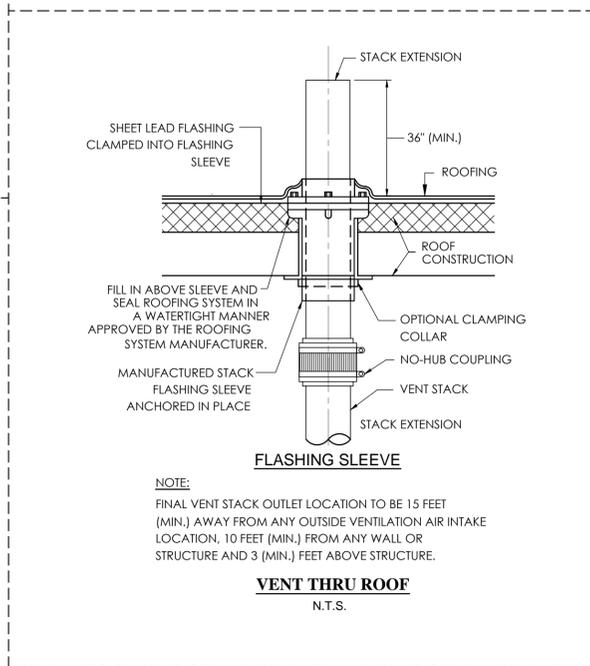
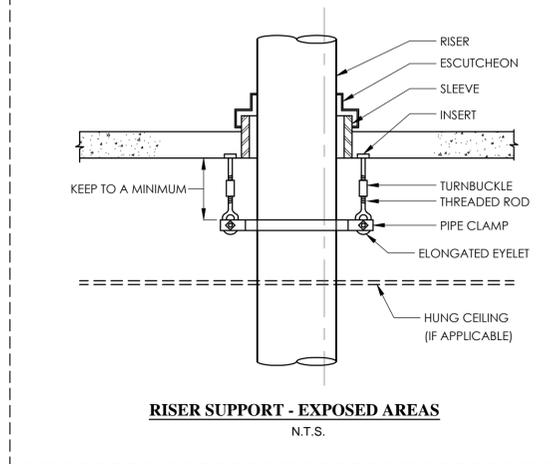
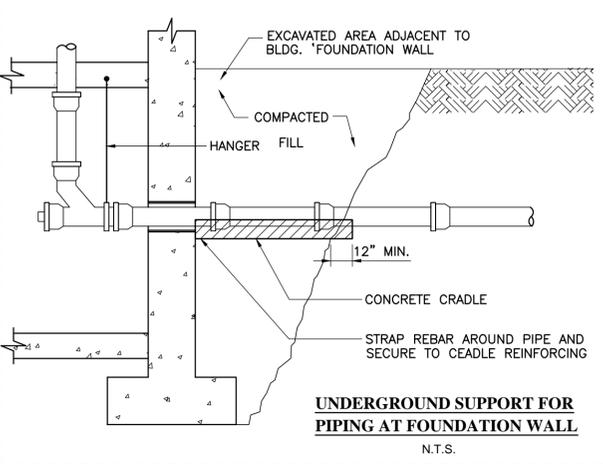
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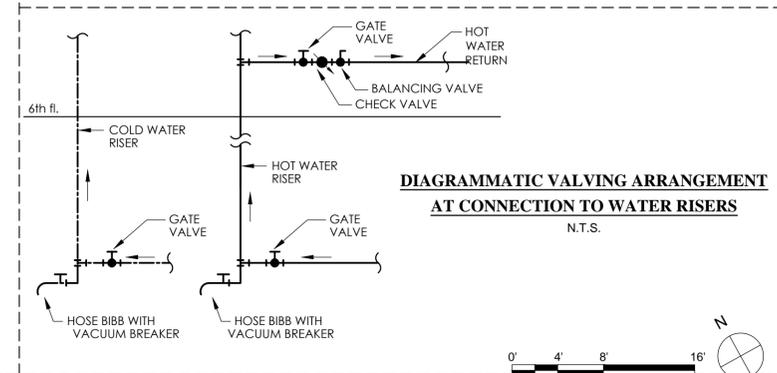
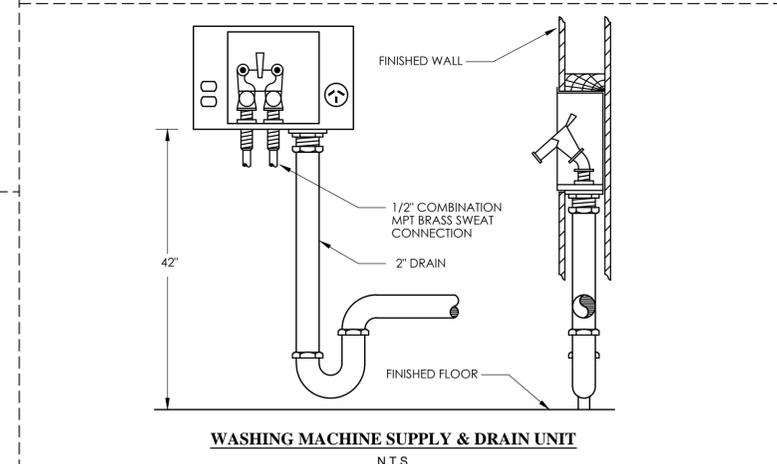
THE ELECTRICAL CONTRACTOR TO FURNISH & INSTALL 3 #12 & 1 #12g-3/4" C TO AVAILABLE 15A, 3 POLE, CIRCUIT BREAKER IN EXISTING HOUSE PANEL.



NOTES:
1. PROVIDE RESTRAINING SUPPORT ROD AT THE BASE OF EACH STACK.
2. PROVIDE A SUPPORT ROD AT EACH JOINT.
3. SIZE OF SUPPORT RODS SHALL BE AS PER CODE AND CAST IRON INSTITUTE STANDARDS.
4. FOR HORIZONTAL SOIL, WASTE, & VENT PIPING LARGER THAN 5" PROVIDE HANGER ON EACH SIDE OF EACH NO-HUB COUPLING SPACED NO FURTHER THAN 18" OR LESS THAN 3" FROM THE COUPLING ENDS.



NOTE:
FINAL VENT STACK OUTLET LOCATION TO BE 15 FEET (MIN.) AWAY FROM ANY OUTSIDE VENTILATION AIR INTAKE LOCATION, 10 FEET (MIN.) FROM ANY WALL OR STRUCTURE AND 3 (MIN.) FEET ABOVE STRUCTURE.



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PLUMBING DETAIL SHEET #2

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of



| SYMBOLS & LEGEND KEY | |
|----------------------|---|
| | NEW DUCTWORK (SINGLE LINE) |
| | NEW DUCTWORK |
| | DUCT IN FIRE RATED ENCLOSURE |
| | VOLUME DAMPER |
| | INCLINED DROP IN THE DIRECTION OF AIR FLOW |
| C.O. | CLEANOUT |
| FC | FLEXIBLE CONNECTION |
| FD/AD | FIRE DAMPER AND ACCESS DOOR |
| | SMOKE DETECTOR |
| | MOTORIZED DAMPER |
| CG | CEILING GRILLE |
| CR | CEILING REGISTER |
| AL | 1" ACOUSTICAL LINING, SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS |
| | DRAIN |
| | HOT WATER SUPPLY |
| | HOT WATER RETURN |
| | COMBINATION BALANCING VALVE/FLOW MEASURING STATION |
| | SHUT OFF VALVE |
| | BALL VALVE |
| | GLOBE VALVE |
| | CONTROL VALVE |
| | STRAINER WITH BLOW DOWN VALVE |
| | UNION |
| | THREE WAY VALVE |
| | CHECK VALVE |
| | PRESSURE RELIEF VALVE |
| | AUTOMATIC AIR VENT |
| | THERMOMETER |
| | PRESSURE GAUGE WITH GATE VALVE |
| 1.0' | LOUVERED DOOR W/ SQ.FT OF NFA |
| NFA | NET FREE AREA |
| | THERMOSTAT |
| WAC | WALL AIR CONDITIONING UNIT |
| OED | OPEN ENDED DUCT |
| WMS | WIRE MESH SCREEN |
| AFF | ABOVE FINISHED FLOOR |
| DN | DOWN |
| TYP | TYPICAL |
| OAI | OUTSIDE AIR INTAKE |
| CAI | COMBUSTION AIR INTAKE |

COMPLIANCE WITH NYC ECCC:
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THIS APPLICATION IS IN COMPLIANCE WITH THE NYECCC 2014.

NOTE:
ALL DUCTWORK IS LOW PRESSURE, LESS THAN 3" W.C. AIR LEAKAGE TEST IS NOT REQUIRED.

ENERGY CODE COMPLIANCE NOTES

- OUTDOOR SUPPLY AND RETURN AIR DUCTWORK SHALL BE INSULATED WITH MINIMUM OF R-8 RIGID INSULATION, IN ACCORDANCE WITH 2014 NYECCC SEC. C403.2.7.
- SUPPLY AND RETURN DUCTWORK LOCATED IN UNCONDITIONED SPACE SHALL BE INSULATED WITH R-6 BATT INSULATION, IN ACCORDANCE WITH 2014 NYECCC SEC. C403.2.7.
- SUPPLY AND RETURN DUCTWORK LOCATED IN CONDITIONED SPACE SHALL BE INSULATED WITH R-4 BATT INSULATION.
- ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK, SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS, (ADHESIVES), MASTIC-PLUS-EMBEDDED FABRIC SYSTEMS OR TAPES. TAPES AND MASTICS USED TO SEAL DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A OR UL181B. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. UNLISTED DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS.
- THE DUCTWORK IS CLASSIFIED AS LOW PRESSURE AND TO BE CONSTRUCTED IN ACCORDANCE WITH MECHANICAL CODE, SMACNA STANDARDS, AND IN ACCORDANCE WITH 2014 NYC MECHANICAL CODE. ALL LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS AND CONNECTIONS OF SUPPLY AND RETURN DUCTS SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS OR TAPES INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- HEATING EQUIPMENT TO BE CONTROLLED BY A PROGRAMMABLE THERMOSTAT OR CONTROL PANEL. THERMOSTATIC SETBACK CONTROLS SHALL HAVE THE CAPABILITY TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURE DOWN TO 55° F. THE WATER TEMPERATURE SHALL BE SET AS SPECIFIED BY EQUIPMENT MANUFACTURER AND IN COMPLIANCE WITH SECTION C403.2.4 OF THE 2014 NYECCC.
- FOR HEATING SYSTEMS PROVIDE 1½" PIPE INSULATION FOR PIPES EQUAL OR LESS THAN OR EQUAL TO 1½". PROVIDE 2" INSULATION FOR PIPES GREATER THAN 1½".
- FOR SERVICE WATER HEATING SYSTEMS PROVIDE 1" PIPE INSULATION FOR PIPES EQUAL OR LESS THAN OR EQUAL TO 1½". PROVIDE 1½" INSULATION FOR PIPES GREATER THAN 1½"
- HEATING AND COOLING LOAD CALCULATIONS FOR DERIVING CORRECT EQUIPMENT SIZE. REFERENCE PROCEDURES IN THE ASHRAE/ACCA 183.
- FOR SERVICE WATER HEATING SYSTEMS LOAD CALCULATIONS FOR DERIVING CORRECT EQUIPMENT SIZE. REFERENCE PROCEDURES IN THE ASPE GUIDELINES.
- MOTORIZED DAMPERS FOR OUTDOOR AIR SUPPLY AND EXHAUST DUCTS FOR BUILDINGS GREATER THAN 2 STORIES AND OUTDOOR AIR INTAKE OR EXHAUST AIRFLOWS OF 300 CFM OR MORE. GRAVITY DAMPERS PERMITTED FOR ALL OTHER.

COMMISSIONING:

OWNER SHALL ENGAGE A REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY TO PROVIDE COMMISSIONING SERVICES IN COMPLIANCE WITH SECTION C408 OF 2014 NYECCC. THE SPECIFICATIONS SHALL BE PROVIDED BY A COMMISSION AGENT AND TO BE SUBMITTED WITH DESIGN DOCUMENTS FOR BID.

SYSTEMS AND ASSOCIATED CONTROLS TO BE COMMISSIONED:

- HEATING, COOLING, AIR HANDLING AND DISTRIBUTION, VENTILATION, AND EXHAUST SYSTEMS, AND THEIR RELATED AIR QUALITY MONITORING SYSTEMS.
- AIR, WATER, AND OTHER ENERGY RECOVERY SYSTEMS.
- MANUAL OR AUTOMATIC CONTROLS, WHETHER LOCAL OR REMOTE, ON ENERGY USING SYSTEMS INCLUDING BUT NOT LIMITED TO TEMPERATURE CONTROLS, SETBACK SEQUENCES, AND OCCUPANCY BASED CONTROL, INCLUDING ENERGY MANAGEMENT FUNCTIONS OF THE BUILDING MANAGEMENT SYSTEM.
- PLUMBING, INCLUDING INSULATION OF PIPING AND ASSOCIATED VALVES, DOMESTIC AND PROCESS WATER PUMPING, AND MIXING SYSTEMS.
- MECHANICAL HEATING SYSTEMS AND SERVICE WATER HEATING SYSTEMS.
- REFRIGERATION SYSTEMS.
- RENEWABLE ENERGY AND ENERGY STORAGE SYSTEMS.
- OTHER SYSTEMS, EQUIPMENT AND COMPONENTS THAT ARE USED FOR HEATING, COOLING OR VENTILATION AND THAT AFFECT ENERGY USE.

COMMISSIONING PLAN SHALL FOLLOW ALL NECESSARY STEPS AS PER SECTION C408.2.1 OF 2014 NYECCC.

TRAINING AND MANUALS:

UPON COMPLETION OF THE JOB, ALL APPLICABLE OPERATING AND SPECIFICATION MANUALS TO BE DELIVERED TO THE BUILDING STAFF. CONTRACTOR SHALL PROVIDE TRAINING FOR THE BUILDING MAINTENANCE STAFF TO ASSURE THAT THE SYSTEM IS MAINTAINED AND OPERATED PROPERLY.

- * ALL MOTORIZED DAMPERS SHALL BE CLASS I RATED FOR AIR LEAKAGE. MOTORIZED DAMPERS SHALL AUTOMATICALLY SHUT WHEN SYSTEM NOT IN USE.
- * ALL EQUIPMENT MUST BE UL/REFERENCE STANDARD APPROVED

MECHANICAL EQUIPMENT AND BUILDING SYSTEMS SHALL BE CONSTRUCTED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE 2014 NEW YORK CITY MECHANICAL CODE AND THE 2014 NEW YORK CITY FUEL AND GAS CODE.

GENERAL N.Y.C. BUILDING CODE (MECHANICAL CODE OF NEW YORK EFFECTIVE 2008 TO BE COMPLIED WITH)

1. MATERIAL AND EQUIPMENT SUBJECT TO CONTROLLED INSPECTION

A. MECHANICAL VENTILATION (M.V.) AIR CONDITION (A.C.)
(1) INSPECTION AND TEST OF REQUIRED VENTILATION SYSTEMS PER MC-403

B. HEATING EQUIPMENT

(1) APPLICATION FOR EQUIPMENT USE PERMIT FOR HEATING SYSTEM TO BE ACCOMPANIED BY A SIGNED STATEMENT BY AN ARCHITECT OR ENGINEER INDICATING COMPLIANCE WITH CODE TEMPERATURES, ETC., PER MC-309

2. THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES ETC., TO COMPLY WITH THE FOLLOWING:

ARTICLE REFERENCE:

| WORK ITEM OR MATERIAL (S) | SECTION |
|-------------------------------|----------------|
| C. DUCT CONSTRUCTION | MC-603 |
| D. AIR INTAKES AND OUTLETS | MC-608 |
| E. FILTER | MC-605 |
| F. FANS | MC-503 |
| G. ELEC. WIRING AND EQUIP. | MC-301 |
| H. AIR CLG HTG EQUIP | MC-302 |
| I. FIRE CONTROLS | MC-509, MC-513 |
| J. CONTROLS | MC-405 |
| K. HEATING CAPACITY | MC-312 |
| L. NOISE CRITERIAL LEVEL | MC-926 |
| M. TEST PROCEDURES FOR SPL | MC-926 |
| N. INTAKES, EXHAUSTS, RELIEFS | MC-502 |

3. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RELATED WALL COMPOSITIONS.

4. MINIMUM TEMPERATURE TO BE MAINTAINED DURING HEATING SEASON: 68° F. WHEN 0° F OUTSIDE WITH 15 MPH WINDS HEATING REQUIREMENTS PER MC-309.

5. A STATEMENT WILL BE FILLED (BY OWNER OR TENANT IN POSSESSION) THAT THE VENTING SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION DURING NORMAL OCCUPANCY OF THE PREMISES.

6. THE VENTILATION INDEX OF ALL AREAS COMPLIES WITH THE MINIMUM CODE REQUIREMENTS MC-403. ALL CALCULATIONS OF VENTILATION INDEX MADE WITHOUT TAKING ANY CREDIT FOR EXTERIOR WINDOWS AND / OR OPENINGS.

ALL VENTILATION RATES ARE IN COMPLIANCE WITH NYC MECHANICAL CODE - 2014

GENERAL NOTES

- COORDINATE ALL WORK WITH THE ARCHITECTURAL DRAWINGS. VERIFY LOCATION OF ALL VISIBLE DEVICES WITH ARCHITECT PRIOR TO INSTALLATION, INCLUDING THERMOSTATS, DIFFUSERS, GRILLES, REGISTERS, SENSOR ETC. APPEARANCE OF ALL VISIBLE DEVICES SHALL MATCH APPEARANCE OF EXISTING DEVICES FOR FINISH, COLOR AND MOUNTING FRAME. RECEIVE APPROVAL FROM THE ARCHITECT FOR ALL DEVICES PRIOR TO PURCHASE.
- ALL SHEET/METAL SIZES INDICATED ARE CLEAR INSIDE DIMENSIONS.
- CONTRACTOR SHALL FOLLOW BUILDING RULES & REGULATIONS AND THEIR DESIGN GUIDELINES.
- BALANCE DIFFUSERS TO CFM SHOWN ON DRAWING.
- DRAWINGS ARE INTENDED TO SHOW THE PROPER SIZE AND GENERAL LOCATION OF THE EQUIPMENT, PIPING, DUCTWORK, ETC. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONNECTIONS. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENTS OF SYSTEMS AND WORK INCLUDED IN CONTRACT. DEVIATION FROM LAYOUT SHOWN MUST BE APPROVED BY THE ARCHITECT/ENGINEER.
- ALL DUCTWORK IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR DROPS, RISES AND TRANSITIONS.
- THE SHEET METAL SHOP DRAWINGS SHALL INDICATE ALL HUNG CEILING STARTING POINTS, ELEVATIONS AND BREAK LINES. WHERE PIPING, LIGHTS AND DUCTWORK CONFLICTS, DUCTWORK SHALL BE SET UP OR DOWN.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LINE VOLTAGE CONDUIT AND WIRE. MAKE ALL LINE VOLTAGE FINAL WIRING CONNECTIONS. FURNISH AND INSTALL DISCONNECT SWITCHES UNLESS FURNISHED AS PART OF PACKAGE EQUIPMENT.
- PROVIDE MANUAL DAMPERS IN EACH SPLIT OR TAP CONNECTION TO TRUNK DUCTS FOR BALANCING PURPOSES. EACH DAMPER PROVIDED WITH OPERATOR AND LOCKING DEVICE.
- CONTRACTOR SHALL SUPPLY "AS BUILT DRAWINGS" AT THE CONCLUSION OF THE JOB.
- CONTRACTOR TO BE RESPONSIBLE FOR DIFFUSER FRAME TYPE. MUST APPROVED BY ARCHITECT.
- ALL HVAC SYSTEMS SHALL CONFORM WITH NEW YORK CITY BUILDING CODE, NEW YORK STATE ENERGY CONSERVATION CODE AND ALL APPLICABLE JURISDICTIONAL BODIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS, FEES AND CLOSEOUTS.
- ALL DUCTWORK SHALL BE AND TESTED SEALED, BALANCED TO AN ALLOWABLE LEAKAGE OF 5%. SUBMIT BALANCE REPORT FOR APPROVAL TO DESIGN TEAM (ENGINEER/ARCHITECT)
- CONTRACTOR SHALL GUARANTEE ALL NEW WORK FOR THE PERIOD OF ONE (1) YEAR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING OF AIR QUANTITIES AT ALL AIR CONDITIONING OUTLETS AND RETURNS AS SHOWN ON THE PLANS.
- ALL HVAC DUCTWORK SHALL BE SUPPORTED FROM FLOOR BEAMS EITHER DIRECTLY OR INDIRECTLY BY MEANS OF STEEL FRAMEWORK. ALL EQUIPMENT SUSPENSION MUST BE APPROVED BY THE BUILDING STRUCTURAL ENGINEER. METHOD FOR HANGING EQUIPMENT WILL BE DETAILED ON THE SHEET METAL SHOP DRAWINGS.
- SHOP DRAWINGS SHALL BE PREPARED WITH COMPLETE DIMENSIONAL INFORMATION, INCLUDING COORDINATES TO BRANCH DUCT AND DIFFUSERS STUBS. ELEVATIONS TO THE UNDERSIDE OF EXISTING LOW PRESSURE DUCTS AND NEW DUCTS, SHALL BE CLEARLY INDICATED ON THE DRAWING SUBMITTED AND SHALL BE CAREFULLY CHECKED FOR CONFORMANCE WITH CEILING HEIGHT REQUIREMENTS. ALL CONFLICTS MUST BE FLAGGED ON THE SHOP DRAWINGS. SHOP DWG SHALL INCLUDE A LIST OF REFERENCE DRAWINGS USED.
- THIS CONTRACTOR IS RESPONSIBLE TO COORDINATE AND INCLUDE IN HIS BID THE RELOCATION OF ALL PIPING, HANGERS, CONDUITS, ETC. REQUIRED TO INSTALL DUCTWORK.
- SUPPORT, PROTECT, MAINTAIN AND REPAIR ANY DAMAGED DUCTWORK, PIPING AND INSULATION AFFECTED BY THE WORK OF THIS PROJECT.
- FURNISH ALL LABOR AND MATERIALS, TOOLS, EQUIPMENT AND SERVICES TO PERFORM THE ALTERATION AS INDICATED.
- NO PIPING SHALL BE SMALLER THAN 3/4"
- PROVIDE FITTINGS FOR CHANGE IN PIPE SIZES FOR FINAL CONNECTION AS REQUIRED.
- PROVIDE UNION OR FLANGED CONNECTIONS AT EACH PIECE OF EQUIPMENT AND ON BOTH SIDES OF CONTROL VALVES.
- DRAINAGE PIPING PITCH NOT LESS THAN 1/8" PER FOOT.
- PROVIDE ACCESS DOORS IN DUCTWORK WHERE INDICATED OR REQUIRED FOR ACCESS TO SYSTEM COMPONENTS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
 - REHEAT COILS
 - VOLUME DAMPERS
 - VALVES
- PROVIDE FIRE/SMOKE DAMPERS (WITH ACCESS DOORS) AT THE FOLLOWING POINTS.
 - POINT OF PASSING THROUGH SHAFT WALLS TO CONNECT TO VERTICAL RISERS.
 - WHERE PASSING THROUGH FLOOR OR ROOF CONSTRUCTION.
 - WHERE PASSING THROUGH FIRE RATED PARTITIONS (REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED PARTITIONS).
 - WHERE INDICATED OR REQUIRED BY CODE.
- FOR PIPE CONNECTION DETAILS FOR EQUIPMENT, SEE DETAILS ON DRAWINGS.
- FOR AREAS WITH INACCESSIBLE CEILINGS, VOLUME DAMPERS SHALL BE PROVIDED WITH METAL FLEXIBLE CABLE OPERATORS FOR REMOTE OPERATION OF DAMPERS THROUGH FACE OF DIFFUSERS, GRILLES OR REGISTERS.
- ALL DUCTWORK IS TO BE KEPT AS HIGH AS POSSIBLE SO AS TO MAINTAIN CEILING HEIGHTS SHOWN ON ARCHITECTURAL DRAWINGS.
- WHERE PIPING, LIGHTS AND DUCTWORK CONFLICT, DUCTWORK SHALL SET UP AND DOWN.
- PROVIDE DRAIN VALVES AT ALL LOW POINTS OF ALL WATER SYSTEM.
- PROVIDE CONDENSATE PUMP FOR EACH AC UNIT, FAN COIL UNIT, ETC. IF GRAVITY CONDENSATE REMOVAL IS NOT POSSIBLE.

MECHANICAL DRAWING LIST

| DWG No. | DRAWING TITLE | SCALE |
|---------|--|--------------|
| EN-001 | ELECTRICAL COMCHECK SHEET | NONE |
| EN-002 | MECHANICAL COMCHECK SHEET | NONE |
| M-001 | MECHANICAL COVER SHEET (LEGEND, SYMBOLS AND NOTES) | NONE |
| M-100 | MECHANICAL CELLAR PLAN | 1/8" = 1'-0" |
| M-101 | MECHANICAL 1ST FLOOR PLAN | 1/8" = 1'-0" |
| M-102 | MECHANICAL 2ND FLOOR PLAN | 1/8" = 1'-0" |
| M-103 | MECHANICAL 3RD-6TH FLOOR PLAN | 1/8" = 1'-0" |
| M-104 | MECHANICAL 7TH FLOOR PLAN | 1/8" = 1'-0" |
| M-105 | MECHANICAL 8TH FLOOR PLAN | 1/8" = 1'-0" |
| M-106 | MECHANICAL ROOF PLAN | 1/8" = 1'-0" |
| M-300 | MECHANICAL SCHEDULE SHEET | NONE |
| M-400 | MECHANICAL DETAIL SHEET 1 | NONE |
| M-401 | MECHANICAL DETAIL SHEET 2 | NONE |
| M-402 | MECHANICAL DETAIL SHEET 3 | NONE |

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MECHANICAL COVER SHEET

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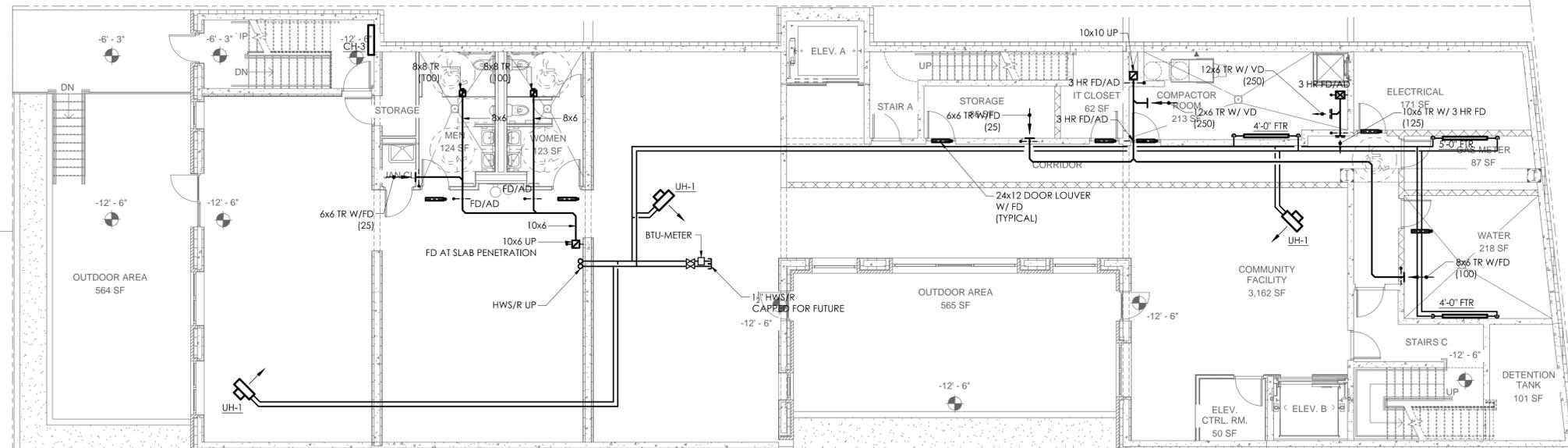
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1 **Basement Plan**
 1/8" = 1'-0"

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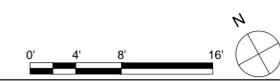
MECHANICAL BASEMENT PLAN

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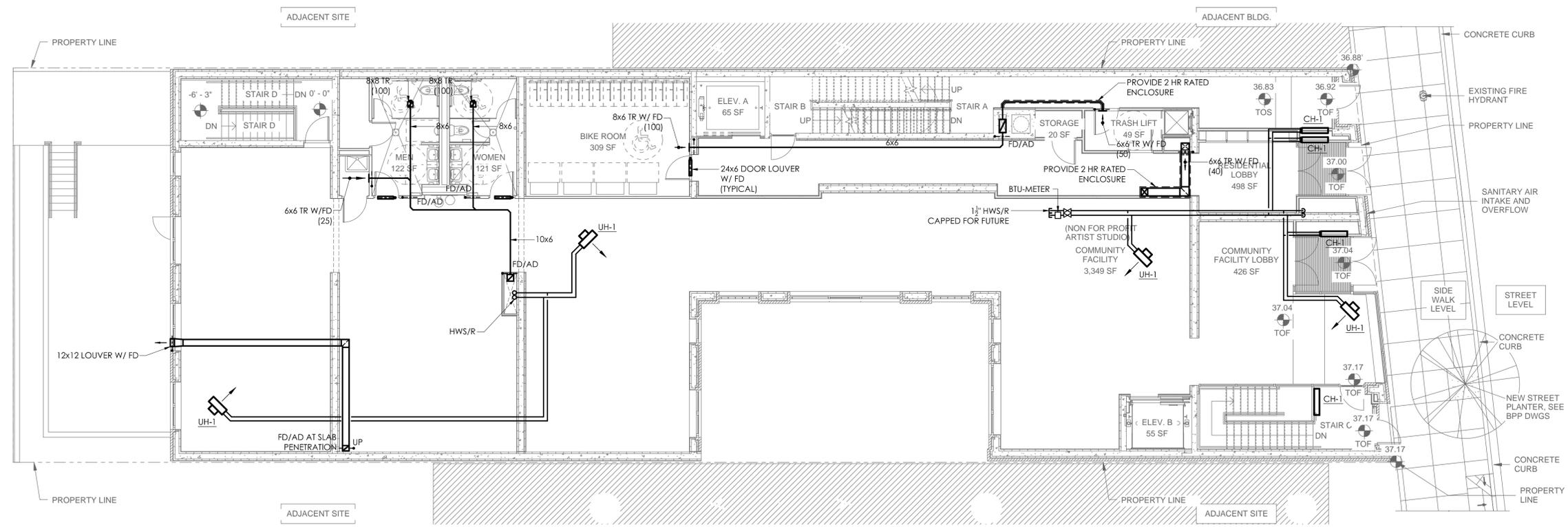
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1 First Floor Plan
 1/8" = 1'-0"

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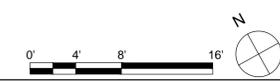
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MECHANICAL FIRST FLOOR PLAN



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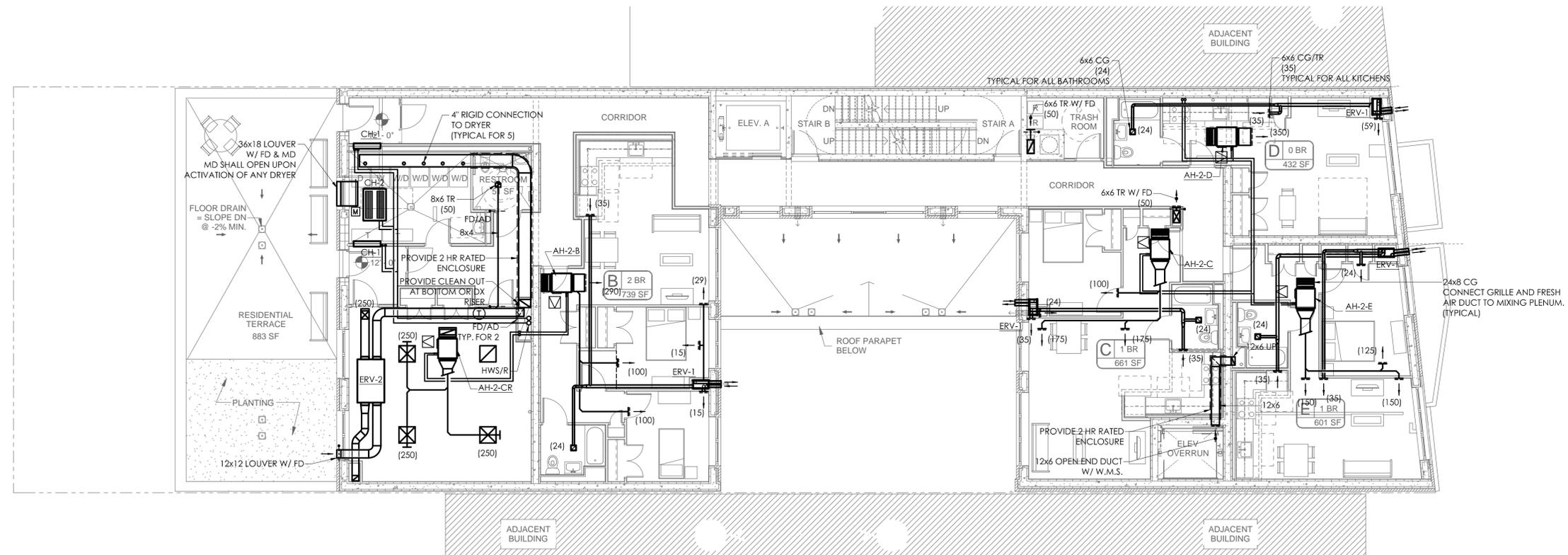
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① **2nd Floor Plan**
 1/8" = 1'-0"

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MECHANICAL 2ND FLOOR PLAN



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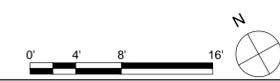
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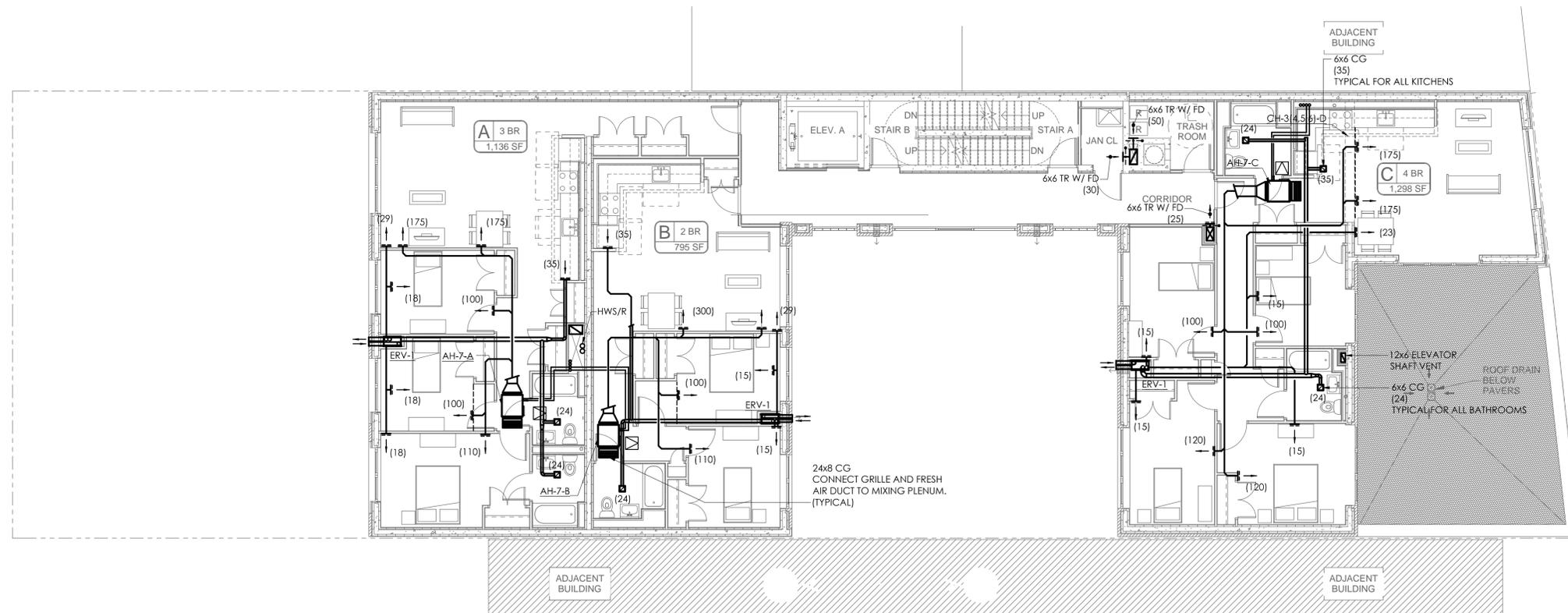
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① 7th Floor Plan
 1/8" = 1'-0"

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MECHANICAL 7TH FLOOR PLAN



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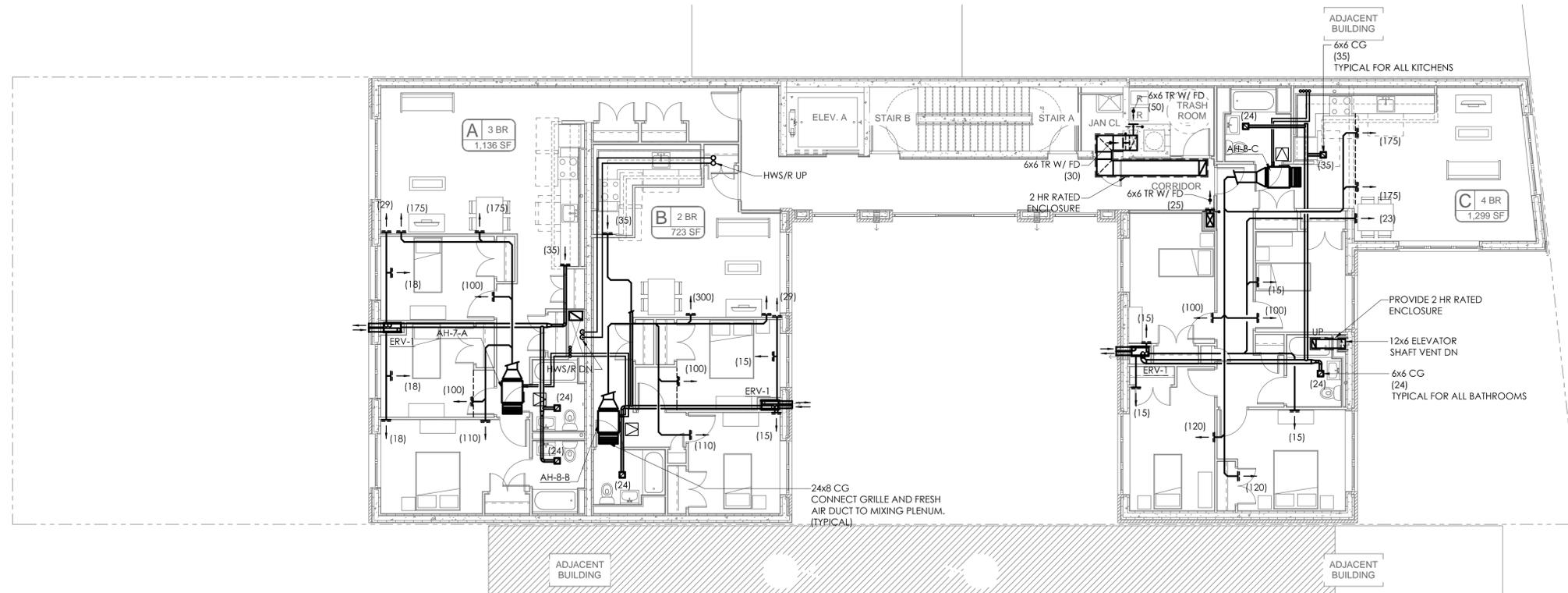
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① **8th Floor Plan**
 1/8" = 1'-0"

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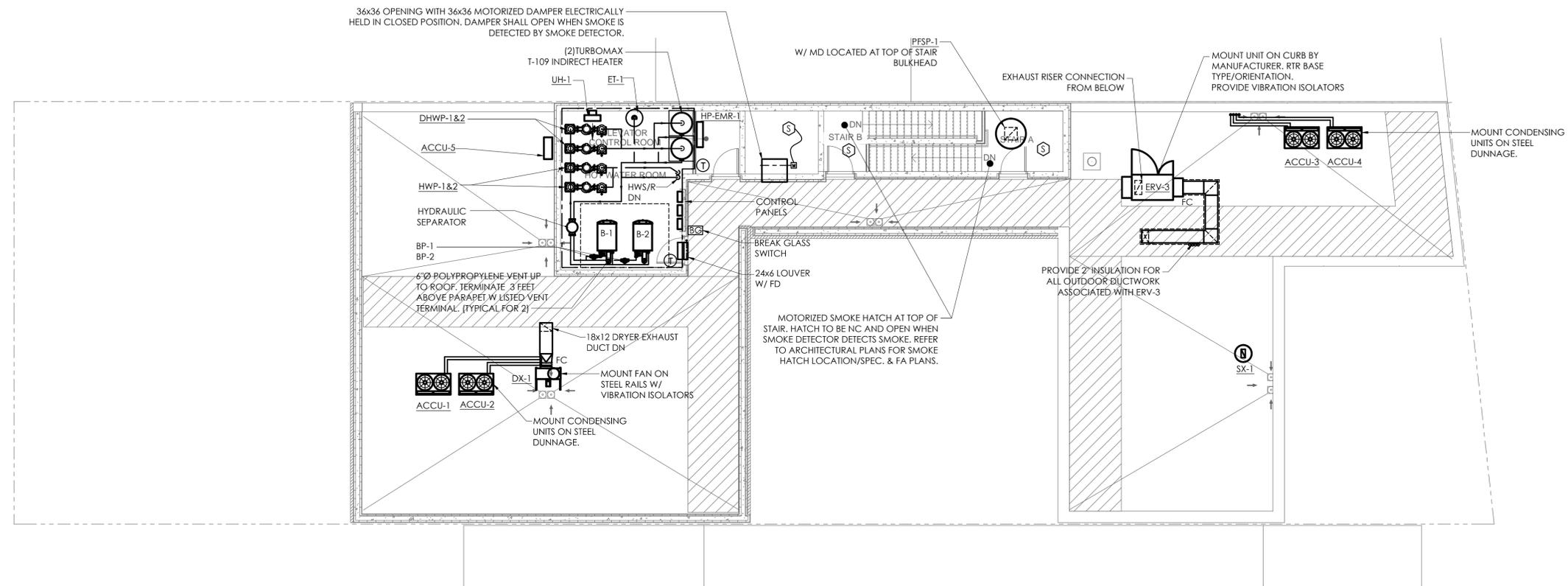
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NOTE:
 1. PROVIDE THERMAL INSULATION FOR ALL SUPPLY AIR DUCTWORK.
 2. PROVIDE 4" CONCRETE CURB FOR ALL FLOOR MOUNTED BOILER ROOM EQUIPMENT.
 3. BOILER SHALL BE MOUNTED ON VIBRATION ISOLATORS WITH MINIMUM 1" DEFLECTION.
 4. PROVIDE VIBRATION ISOLATION ON PIPING A MINIMUM OF 50 PIPE DIAMETERS FROM THE CONNECTION TO THE EQUIPMENT.
 *** IN ADDITION TO THE CO DETECTOR SHOWN ON ELECTRICAL DRAWINGS (TIED TO THE FA SYSTEM), PROVIDE ANOTHER CO DETECTOR TO BE TIED TO BOILER CONTROL TO SHUT THE BOILERS DOWN IN CASE OF HIGH BUILD UP OF CARBON MONOXIDE. REFER TO ELECTRICAL DRAWINGS FOR WIRING DIAGRAM.



1 Roof Plan
 1/8" = 1'-0"

KEY PLAN



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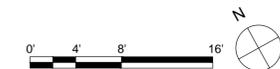
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MECHANICAL ROOF PLAN

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| BOILERS SCHEDULE | | | | | | | | | | | | | | |
|------------------|-------------------------------|------------|----------------------|-------------|-----------------|----|------|----------------------------|---------------------------|-------------------------|------------|----------|----------------------------|--------|
| NO. | SERVICE | TYPE | GAS HEATING CAPACITY | | ELECTRICAL DATA | | | PRESSURE RELIEF VALVE, PSI | MANUFACTURER MODEL NUMBER | OPERATING PRESSURE, PSI | EFFICIENCY | MEA # | REMARKS | WEIGHT |
| | | | INPUT, BTU | OUTPUT, BTU | BOILER | | | | | | | | | |
| | | | | | VOLTS | PH | AMPS | | | | | | | |
| B-1 & 2 | BUILDING SYSTEM & DOMESTIC HW | WATER TUBE | 1,200,000 | 1,137,000 | 115 | 1 | 12 | 75 | LAARS NETHERM NTH 1200 | 40 | 95 % | 136-03-E | PROVIDE TEKMAR 275 CONTROL | 850 |

1. PROVIDE 75 PSI PRESSURE RELIEF VALVE SETTING FOR ALL 2 BOILERS.
2. TURBOMAX PRESSURE RELIEF VALVE SETTING TO MATCH BOILER RELIEF VALVE.

| PUMP SCHEDULE | | | | | | | | | | | | |
|---------------|--------------------|-------------|-----------|--------------|-------|------|--------|-------|------------------------|------------------------------------|--|--|
| UNIT No. | SERVICE | LOCATION | PUMP DATA | | MOTOR | | | | MANUFACTURER AND MODEL | REMARKS: | | |
| | | | GPM | TOT. HD., FT | RPM | H.P. | B.H.P. | VOLTS | | | PH | |
| | | | | | | | | | | | | |
| BP-1&2 | BOILER CIRCULATOR | BOILER ROOM | 75 | 25 | 3300 | 1/2 | - | 115 | 1 | ARMSTRONG SERIES E.2 E-33.2/E33.2B | VERTICAL-IN-LINE POWER BY BOILER | |
| HWP-1 & 2 | HEATING SYSTEM | BOILER ROOM | 80 | 60 | 1106 | 5 | 2.18 | 208 | 3 | ARMSTRONG SERIES 4380 2x2x10 | 1 PUMP IS STANDBY VERTICAL-IN-LINE VFD | |
| DHWP-3 & 4 | DOMESTIC HOT WATER | BOILER ROOM | 100 | 25 | 1223 | 1.5 | 0.95 | 208 | 3 | ARMSTRONG SERIES 4380 3x3x6 | 1 PUMP IS STANDBY VERTICAL-IN-LINE | |

1. PROVIDE TRIPLE DUTY VALVES AND SUCTION GUIDES FOR ALL PUMPS
2. PROVIDE TEKMAR 132 PUMP SEQUENCING PANEL WITH CURRENT SENSORS FOR EACH SET OF PUMPS.
3. PROVIDE NEMA PREMIUM EFFICIENCY MOTORS FOR ALL PUMPS 1 HP OR GREATER.
4. STARTERS TO BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE ELECT. DWGS.

| INDOOR UNIT SCHEDULE | | | | | | | | | | | | | |
|----------------------|---------------------|---------------------|-----|--------------|--------|--------------|----|-----------------|----|-------------------|---------------------------|---------|----------------|
| UNIT No. | SERVICE | LOCATION | CFM | COOLING DATA | | HEATING DATA | | ELECTRICAL DATA | | | MANUFACTURER AND MODEL No | ETL # | REMARKS |
| | | | | CAP/BTU | PH | CAP/BTU | PH | VOLTS | PH | MCA/MOP | | | |
| HP-EMR-1 | ELEVATOR MACHINE RM | ELEVATOR MACHINE RM | 280 | 11,200 | 13,300 | 208 | 1 | 3.3 | 15 | POWERED BY ACCU-1 | LG LSNI21HSV2 | 3091879 | HEAT PUMP DUTY |
| AH-2-CR | COMMUNITY RM | COMMUNITY RM | 750 | 28,000 | 31,500 | 208 | 1 | 3.3 | 15 | | LG ARNU2838GA4 | 3091879 | |
| AH-2-B | APT. B | APT. B | 490 | 19,100 | 21,500 | 208 | 1 | 3.3 | 15 | | LG ARNU1838GA4 | 3091879 | |
| AH-2-C | APT. C | APT. C | 450 | 15,400 | 17,100 | 208 | 1 | 3.3 | 15 | | LG ARNU1538GA4 | 3091879 | |
| AH-2-D | APT. D | APT. D | 350 | 12,300 | 13,600 | 208 | 1 | 3.3 | 15 | | LG ARNU1238GA4 | 3091879 | |
| AH-2-E | APT. E | APT. E | 300 | 15,400 | 17,100 | 208 | 1 | 3.3 | 15 | | LG ARNU1538GA4 | 3091879 | |
| AH-3-A | APT. A | APT. A | 660 | 24,200 | 27,300 | 208 | 1 | 3.3 | 15 | | LG ARNU2438GA4 | 3091879 | |
| AH-3-B | APT. B | APT. B | 510 | 19,100 | 21,500 | 208 | 1 | 3.3 | 15 | | LG ARNU1838GA4 | 3091879 | |
| AH-3-C | APT. C | APT. C | 500 | 15,400 | 17,100 | 208 | 1 | 3.3 | 15 | | LG ARNU1538GA4 | 3091879 | |
| AH-3-D | APT. D | APT. D | 350 | 12,300 | 13,600 | 208 | 1 | 3.3 | 15 | | LG ARNU1238GA4 | 3091879 | |
| AH-3-E | APT. E | APT. E | 300 | 15,400 | 17,100 | 208 | 1 | 3.3 | 15 | | LG ARNU1538GA4 | 3091879 | |
| AH-4-A | APT. A | APT. A | 660 | 24,200 | 27,300 | 208 | 1 | 3.3 | 15 | | LG ARNU2438GA4 | 3091879 | |
| AH-4-B | APT. B | APT. B | 510 | 19,100 | 21,500 | 208 | 1 | 3.3 | 15 | | LG ARNU1838GA4 | 3091879 | |
| AH-4-C | APT. C | APT. C | 500 | 15,400 | 17,100 | 208 | 1 | 3.3 | 15 | | LG ARNU1538GA4 | 3091879 | |
| AH-4-D | APT. D | APT. D | 350 | 12,300 | 13,600 | 208 | 1 | 3.3 | 15 | | LG ARNU1238GA4 | 3091879 | |
| AH-4-E | APT. E | APT. E | 300 | 15,400 | 17,100 | 208 | 1 | 3.3 | 15 | | LG ARNU1538GA4 | 3091879 | |
| AH-5-A | APT. A | APT. A | 660 | 24,200 | 27,300 | 208 | 1 | 3.3 | 15 | | LG ARNU2438GA4 | 3091879 | |
| AH-5-B | APT. B | APT. B | 510 | 19,100 | 21,500 | 208 | 1 | 3.3 | 15 | | LG ARNU1838GA4 | 3091879 | |
| AH-5-C | APT. C | APT. C | 500 | 15,400 | 17,100 | 208 | 1 | 3.3 | 15 | | LG ARNU1538GA4 | 3091879 | |
| AH-5-D | APT. D | APT. D | 350 | 12,300 | 13,600 | 208 | 1 | 3.3 | 15 | | LG ARNU1238GA4 | 3091879 | |
| AH-5-E | APT. E | APT. E | 300 | 15,400 | 17,100 | 208 | 1 | 3.3 | 15 | | LG ARNU1538GA4 | 3091879 | |
| AH-6-A | APT. A | APT. A | 660 | 24,200 | 27,300 | 208 | 1 | 3.3 | 15 | | LG ARNU2438GA4 | 3091879 | |
| AH-6-B | APT. B | APT. B | 510 | 19,100 | 21,500 | 208 | 1 | 3.3 | 15 | | LG ARNU1838GA4 | 3091879 | |
| AH-6-C | APT. C | APT. C | 500 | 15,400 | 17,100 | 208 | 1 | 3.3 | 15 | | LG ARNU1538GA4 | 3091879 | |
| AH-6-D | APT. D | APT. D | 350 | 12,300 | 13,600 | 208 | 1 | 3.3 | 15 | | LG ARNU1238GA4 | 3091879 | |
| AH-6-E | APT. E | APT. E | 300 | 15,400 | 17,100 | 208 | 1 | 3.3 | 15 | | LG ARNU1538GA4 | 3091879 | |
| AH-7-A | APT. A | APT. A | 660 | 24,200 | 27,300 | 208 | 1 | 3.3 | 15 | | LG ARNU2438GA4 | 3091879 | |
| AH-7-B | APT. B | APT. B | 510 | 19,100 | 21,500 | 208 | 1 | 3.3 | 15 | | LG ARNU1838GA4 | 3091879 | |
| AH-7-C | APT. C | APT. C | 790 | 28,000 | 31,500 | 208 | 1 | 3.3 | 15 | | LG ARNU2838GA4 | 3091879 | |
| AH-8-A | APT. A | APT. A | 660 | 24,200 | 27,300 | 208 | 1 | 3.3 | 15 | | LG ARNU2438GA4 | 3091879 | |
| AH-8-B | APT. B | APT. B | 510 | 19,100 | 21,500 | 208 | 1 | 3.3 | 15 | | LG ARNU1838GA4 | 3091879 | |
| AH-8-C | APT. C | APT. C | 790 | 28,000 | 31,500 | 208 | 1 | 3.3 | 15 | | LG ARNU2838GA4 | 3091879 | |

NOTES:
1. PROVIDE PQRVSL0 CONTROLLER FOR EACH AHU.
2. PROVIDE CONDENSATE PUMP: ASPEN, MODEL: ASP-MW-230.
3. CONTACT KLIMA NEW YORK, LLC @ 212-678-5100

| FIN-TUBE RADIATION SCHEDULE | | | | | |
|-----------------------------|--------|--------------|---------------------|--------------|---------|
| TYPE | MODEL | ELEMENT TYPE | BTU PER FT. @ 180°F | MANUFACTURER | REMARKS |
| H-1 | HD-850 | 3/4" | 600 | SLANT FIN | 1 ROW |

REMARKS: PROVIDE CONTINUOUS ENCLOSURE FROM WALL TO WALL - TO - END CAP OR AS OTHERWISE NOTED ON DWG. ENCLOSURE TO BE FACTORY FINISHED BAKED ENAMEL, WITH COLOR SELECTED BY ARCHITECT.

| AIR COOLED CONDENSING (OUTDOOR) UNIT SCHEDULE | | | | | | | | | | | | |
|---|--|----------|-------------------------------|-----------------|-------|----|----------------------------|-----------------------------|---------|-----------------------|-------------|------|
| UNIT NO. | SERVICE | LOCATION | NOMINAL COOLING CAPACITY, TON | ELECTRICAL DATA | | | MANUFACTURER AND MODEL NO. | REMARKS | ETL # | EFFICIENCY | REFRIGERANT | |
| | | | | MCA/MFS | VOLTS | PH | | | | | TYPE | LBS. |
| ACCU-1 | AH-2-CR, AH-2-B AH-3-A, AH-3-B AH-4-A, AH-4-B | ROOF | 10 TONS | 40.3 | 208 | 3 | LG ARUN1218TE-4 | | 3091879 | EER: 12.5 COP: 3.5 | R-410A | 600 |
| ACCU-2 | AH-5-A, AH-5-B AH-6-A, AH-6-B AH-7-A, AH-7-B AH-8-A, AH-8-B | ROOF | 12 TONS | 48.8 | 208 | 3 | LG ARUN1448TE-4 | | 3091879 | EER: 11.8 COP: 3.49 | R-410A | 650 |
| ACCU-3 | AH-2-C, AH-2-D AH-2-E, AH-3-C AH-3-D, AH-3-E AH-4-C, AH-4-E AH-4-D | ROOF | 10 TONS | 40.3 | 208 | 3 | LG ARUN1218TE-4 | | 3091879 | EER: 12.5 COP: 3.5 | R-410A | 600 |
| ACCU-4 | AH-5-C, AH-5-D AH-5-E, AH-6-C AH-6-D, AH-6-E AH-7-C, AH-8-C | ROOF | 10 TONS | 40.3 | 208 | 3 | LG ARUN1218TE-4 | | 3091879 | EER: 12.5 COP: 3.5 | R-410A | 600 |
| ACCU-5 | HP-EMR-1 | ROOF | 1 TON | 10 | 208 | 1 | LG LS121HSV3 | PROVIDE LOW AMBIENT CONTROL | 3091879 | SEER: 21.5 HSPF: 11.0 | R-410A | |

NOTES:
1. INSULATE ALL LINES.
2. ACCU TO BE MOUNTED ON A 3" CLADTILE PAD, CATALOG NUMBER: 1636-3
3. CONTACT KLIMA NEW YORK, LLC @ 212-678-5100
4. MECH. CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE WIRING.

| UNIT HEATER (HYDRONIC) | | | | | | | | | | |
|------------------------|----------------|-----|-----|-------|-------|------|------------|------------------|----------|-------------------|
| UNIT No. | CAPACITY, BTUH | GPM | CFM | VOLTS | PHASE | HP | CONTROL | MANUFACTURER | MODEL No | REMARKS |
| UH-1 | 13,000 | 1.3 | 400 | 115 | 1 | 1/30 | THERMOSTAT | ZEHNDER RITTLING | RH-18 | REMOTE THERMOSTAT |

| CABINET UNIT HEATER (HYDRONIC) | | | | | | | | | | |
|--------------------------------|----------------|-----|-----|-------|-------|------|----------|--------------|------------|---------------------|
| UNIT No. | CAPACITY, BTUH | GPM | CFM | VOLTS | PHASE | HP | CONTROL | MANUFACTURER | MODEL | REMARKS |
| CH-1 | 15,100 | 1.0 | 230 | 115 | 1 | 1/15 | BUILT-IN | STERLING | RW-1120-02 | BUILT-IN THERMOSTAT |
| CH-2 | 30,900 | 4.0 | 430 | 115 | 1 | 1/10 | BUILT-IN | STERLING | RC-1200-04 | BUILT-IN THERMOSTAT |
| CH-3 | 12,800 | 2.0 | 230 | 115 | 1 | 1/10 | BUILT-IN | STERLING | FS-1005-04 | BUILT-IN THERMOSTAT |

| ENERGY RECOVERY VENTILATOR | | | | | | | | | | | | | | | | | | | | |
|----------------------------|------------------------|-----------------|-----------------|-----------------|---------------------------|------------------------|------------|------|------|------|-------------|-----|-------|----|----------|--------------------|--------------------|--------------------|---------|------------|
| NO. | SERVICE | LOCATION | EXHAUST CFM | SUPPLY CFM | HEATING BTU/HR (SENSIBLE) | COOLING BTU/HR (TOTAL) | SUPPLY FAN | | | | EXHAUST FAN | | | | EL. DATA | | WEIGHT LB. | MANUFACTURER MODEL | REMARKS | UL LISTING |
| | | | | | | | ESP | H.P. | ESP | H.P. | MCA | MFS | VOLTS | PH | | | | | | |
| ERV-1 | APARTMENT UNITS | APARTMENT UNITS | SEE FLOOR PLANS | SEE FLOOR PLANS | - | - | 0.3 | - | 0.3 | - | 6 | 15 | 115 | 1 | - | - | ULTIMATE AIR 200DX | | | |
| ERV-2 | 2ND FLOOR COMMUNITY RM | 2ND FLOOR | 500 | 250 | - | - | 0.3 | - | 0.5 | - | 18.1 | 25 | 208 | 3 | 425 | TOPVEX FR800 | | | | |
| ERV-3 | CORRIDORS | ROOF | 1,055 | 655 | 36,079 | 25,253 | 0.75 | 1.0 | 0.75 | 1.0 | 5.0 | 15 | 208 | 3 | 400 | RENEWAIRE HE1.5XRT | | E125167 | | |

PROVIDE: PREFABRICATED ROOF CURB FOR ERV -3, DISCONNECT AND TRANSFORMER PACKAGED. PROVIDE VIBRATION ISOLATORS FOR ALL UNITS.

| FAN SCHEDULE | | | | | | | | | | | | |
|--------------|----------------|----------|------|------|----------|-------|-----|-------|------------------------|---------------|--------------------------------------|------------|
| NO | SERVICE | LOCATION | CFM | S.P. | F.R.P.M. | MOTOR | | | MANUFACTURER AND MODEL | REMARKS | OPERATION | UL LISTING |
| | | | | | | H.P. | PH. | VOLTS | | | | |
| SX-1 | TOILET EXHAUST | ROOF | 250 | 0.75 | - | 1/6 | 1 | 115 | GREENHECK CUE-095-VG | 2,3,4,9,12,13 | | UL-705 |
| PFSP-1 | SMOKE CONTROL | ROOF | 6200 | 0.4 | - | 1.5 | 3 | 208 | GREENHECK CUBE-220 | 3,5,9,12 | POST FIRE SMOKE PURGE. CONTROL BY FA | UL-705 |

NOTES: PROVIDE THE FOLLOWING
1. VIBRATION ISOLATORS.
2. MANUAL STARTER MOUNTED AND WIRED.
3. FAN AND LOUVER MUST BE EQUIPPED WITH CLASS 1 MOTORIZED DAMPER FOR AIR LEAKAGE.
4. VARI-GREEN MOTOR.
5. SWITCH - NEMA-1, TOGGLE, MOUNTED & WIRED.
6. MOTOR MOUNTED SPEED CONTROL.
7. FLEXIBLE DUCT CONNECTIONS.
8. HANGING VIBRATION ISOLATORS.
9. PROVIDE ACOUSTICAL CURB.
10. BACK DRAFT DAMPER.
11. FAN TO BE PROVIDED WITH FILTER.
12. UL RATED FOR HIGH TEMPERATURE SMOKE.
13. FAN SHALL ACTIVE UPON DETECTION OF SMOKE BY THE SMOKE DETECTOR AT TOP OF ELEVATOR SHAFT.

| DRYER EXHAUST FAN SCHEDULE | | | | | | | | | | |
|----------------------------|------------|--------------|-----------------|-------|-------|-----|-----|------------|--------------------------------|---------|
| UNIT No. | SERVICE | CAPACITY CFM | ELECTRICAL DATA | | | RPM | HP | S.P. IN WC | MANUFACTURER | MODEL |
| | | | AMPS | VOLTS | PHASE | | | | | |
| DX-1 | LAUNDRY RM | 1,100 | 5.8 | 120 | 1 | VAR | 1/2 | 1.0 | CHIMNEY DESIGN SLTNS/ ENERVELX | BESB250 |

REMARKS:
1. CONTACT CHIMNEY DESIGN SOLUTIONS OF NEW YORK CITY @ 800-685-7077
2. MODULATING EXHAUST CONTROL.

3365 THIRD AVE

3365 Third Ave Bronx, NY 10456

Owner
3365 THIRD AVE OWNER, LLC
1605 Dr. Martin Luther King Jr. Blvd.
Bronx, NY 10453

Architect
ARCHITECTS LLP

299 Broadway, Suite 1107
New York, New York 10007

Structural Engineer
DE NARDIS ENGINEERING, LLC

15 Reservoir Road
White Plains, New York 10603

MEP
RODKIN CARDINALE CONSULTING ENG.
224 West 29th Street, 4th Floor
New York, New York 10001

BPP
SULLIVAN GROUP DESIGN, LLC
109 West 27th Street
New York, NY 10001

KEY PLAN



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MECHANICAL SCHEDULE SHEET



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Job No.: 1532

Scale: AS NOTED

Drawn By: AM

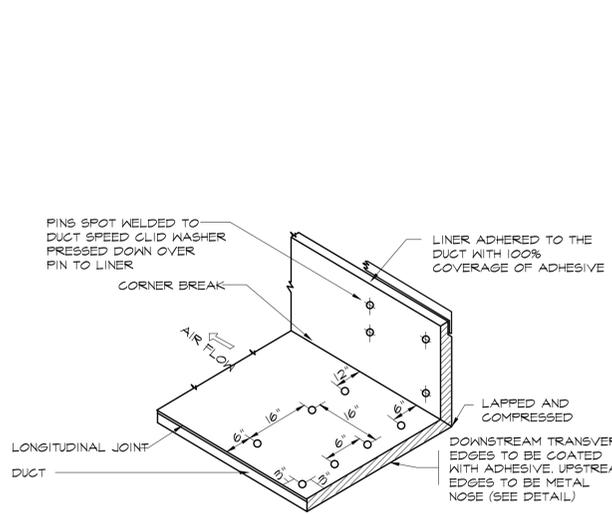
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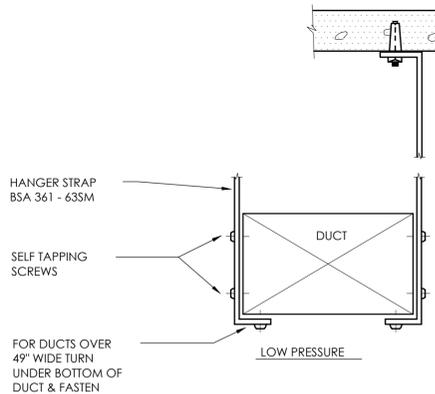
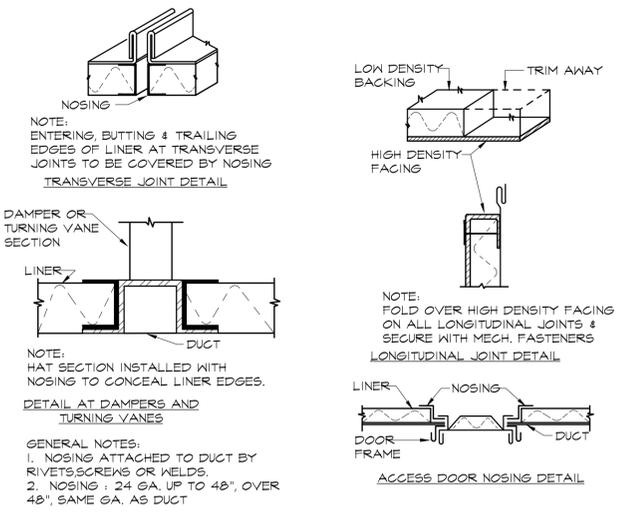
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9 of 12

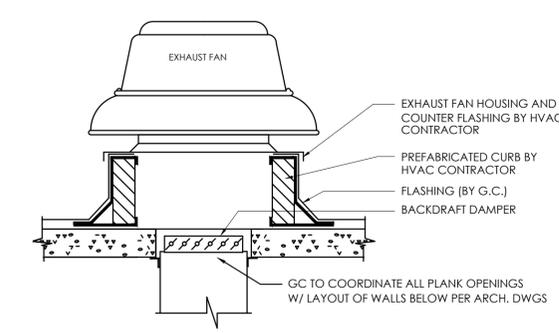




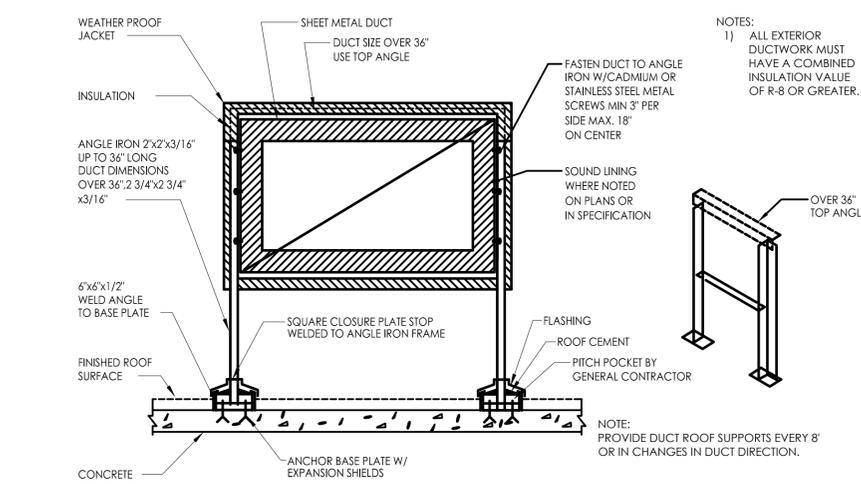
ACOUSTICAL DUCT LINER DETAIL



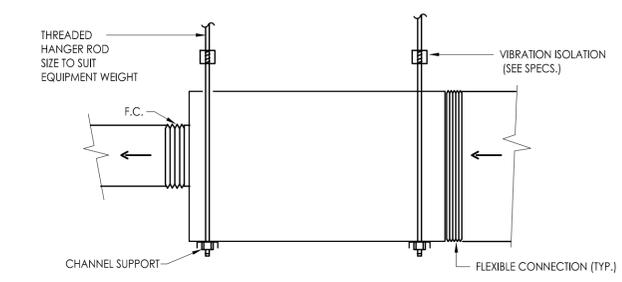
METHOD OF HANGING DUCTWORK



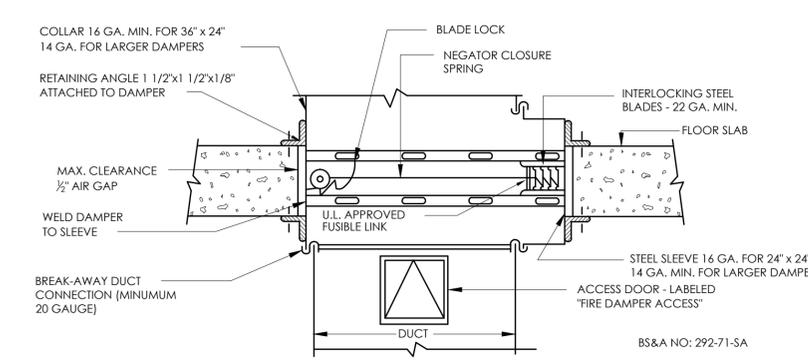
ROOF EXHAUST FAN CURB



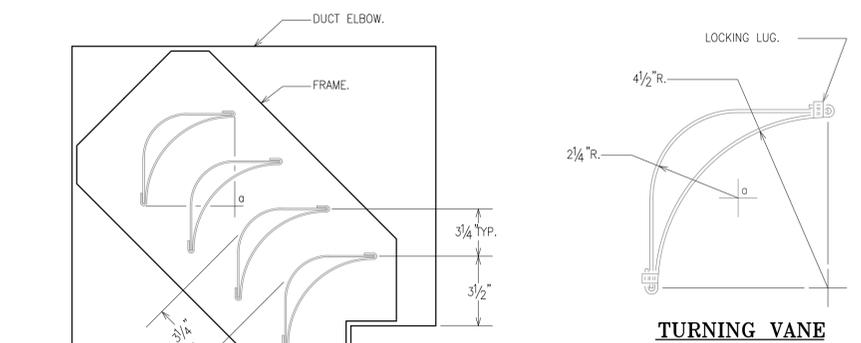
DETAIL OF SUPPORT AND INSULATION FOR ROOF MOUNTED DUCTWORK



HANGING DETAIL H.V.A.C. EQUIPMENT



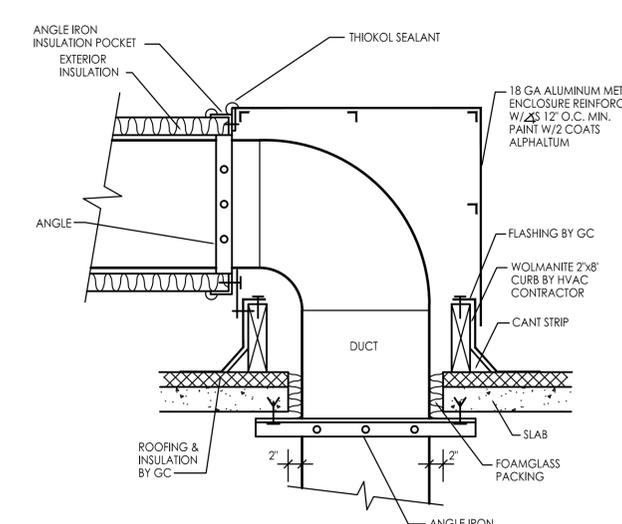
HORIZONTAL FIRE DAMPER DETAIL



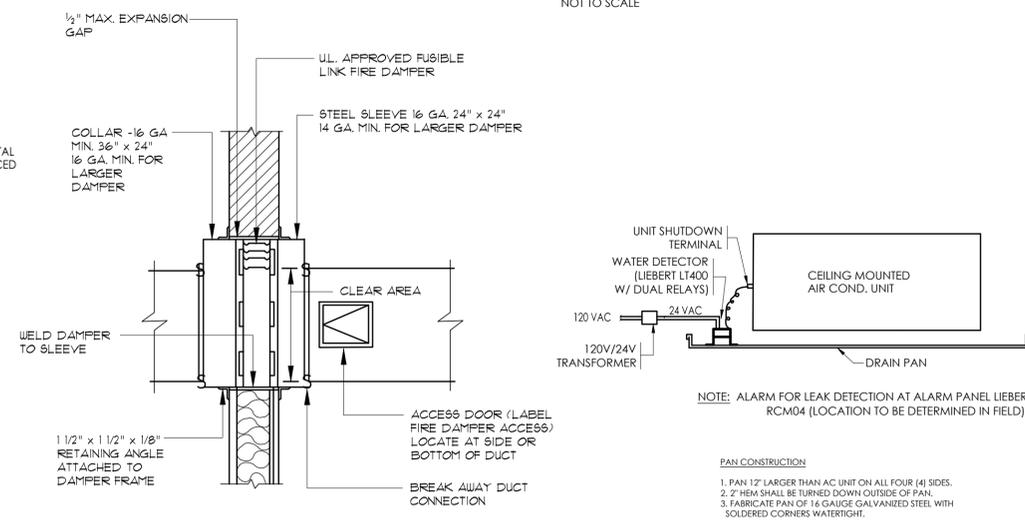
VANED ELBOW

TURNING VANE

DOUBLE THICKNESS TURNING VANES FOR MITERED ELBOWS



ROOF PENETRATION DETAIL



FIRE DAMPER DETAIL

AUXILIARY DRAIN PAN W/ BMS

KEY PLAN



| No. | Date | Revision |
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MECHANICAL DETAIL SHEET 1

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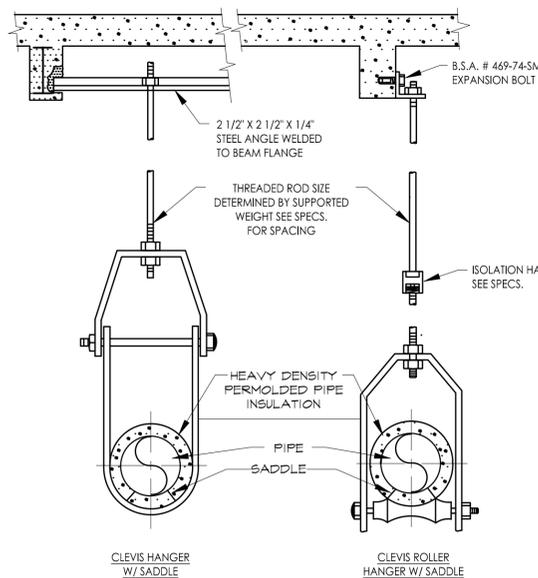
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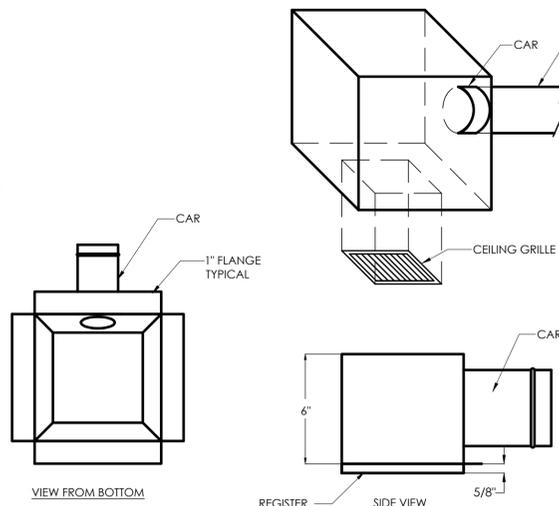
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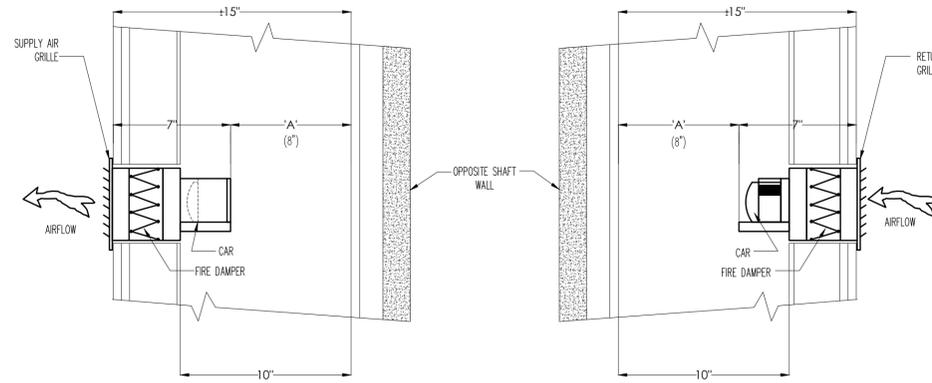




PIPE HANGING DETAIL
NOT TO SCALE



CEILING GRILLE WITH CAR ASSEMBLY DETAIL
NOT TO SCALE

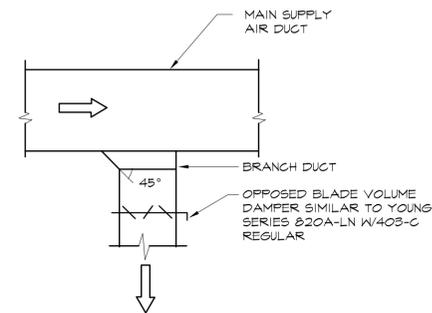


CONSTANT AIRFLOW REGULATOR
NOT TO SCALE

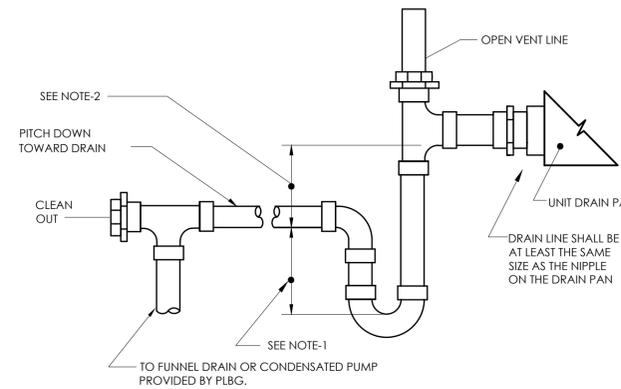
| CAR DIA. | MAX. AIR FLOW CFM* | MINIMUM "A" DIMENSION CER-FE-II | MINIMUM "A" DIMENSION CER-FS-II |
|----------|--------------------|---------------------------------|---------------------------------|
| 4" | 50 | 1.0" | 1.0" |
| 5" | 95 | 1.0" | 1.0" |
| 6" | 150 | 1.5" | 1.5" |
| 8" | 235 | 2.0" | 2.0" |
| 10" | 380 | 2.5" | 2.5" |

*MINIMUM CLEARANCE ASSUMES MAXIMUM AVAILABLE AIRFLOW FOR EACH CAR DIAMETER. CLEARANCES MAY BE REDUCED AT LOWER AIRFLOW RATES.

- NOTES:
- 1) MINIMUM CLEARANCE "A" DIMENSION. MINIMUM DUCT SIZE IS 8"X8"
 - 2) ALDES, MODEL CER-FEA-2 WITH THIN LINE DYNAMIC FIRE DAMPER AND GRILLE FOR EXHAUST.
 - 3) ALDES, MODEL CSR-FSA-2 WITH THIN LINE DYNAMIC FIRE DAMPER FOR SUPPLY.
 - 4) ASSEMBLY TO BE UL 2043 LISTED. TESTED AND MANUFACTURED BY FACTORY AS A COMPLETE ASSEMBLY.

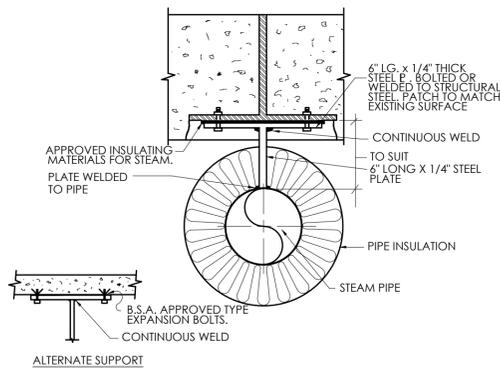


SUPPLY AIR DUCTWORK BRANCH DUCT CONNECTION

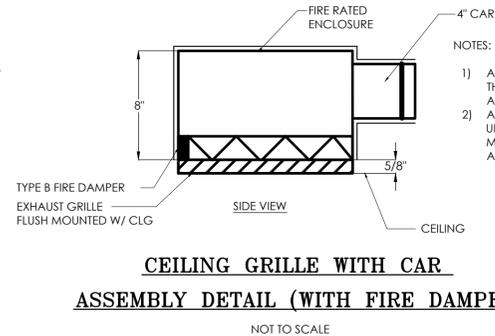


- NOTES:
1. ON POSITIVE PRESSURE SYSTEM (E.G. DUCT COILS, BLOW-THRU UNITS, ETS.) DEPTH OF SEAL SHALL BE A MINIMUM OF 1.5 TIMES SYSTEM PRESSURE IN THE DRAIN PAN.
 2. ON NEGATIVE PRESSURE SYSTEMS (E.G. DRW-THRU UNITS) DEPTH OF SEAL SHALL BE MINIMUM OF 1.5 TIMES SYSTEM PRESSURE IN THE DRAIN PAN.

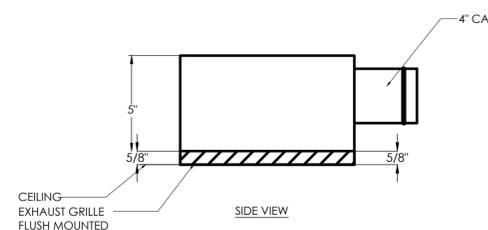
TYPICAL CONDENSATE DRAIN TRAP
NOT TO SCALE



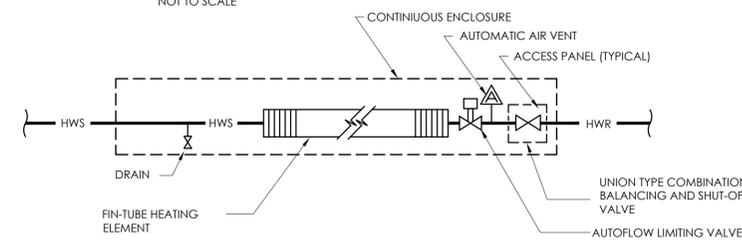
PIPE ANCHOR
NOT TO SCALE



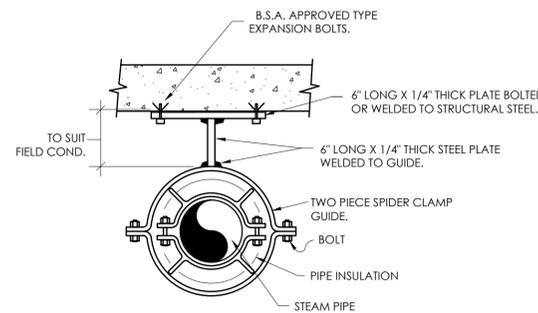
CEILING GRILLE WITH CAR ASSEMBLY DETAIL (WITH FIRE DAMPER)
NOT TO SCALE



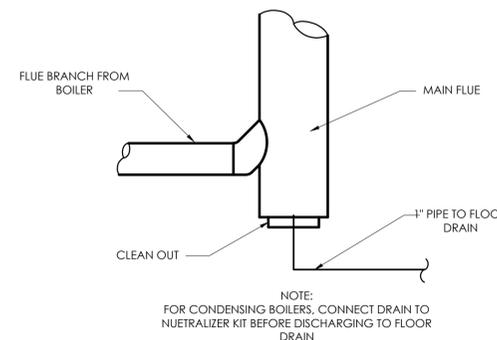
CEILING GRILLE WITH CAR ASSEMBLY DETAIL
NOT TO SCALE



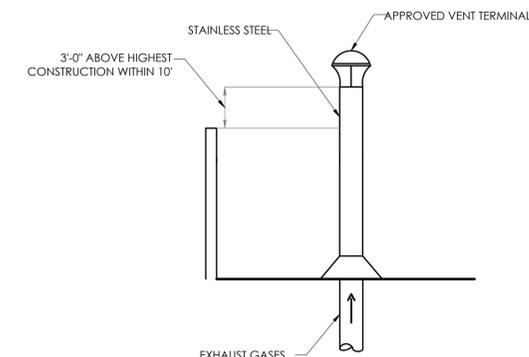
ONE-ROW HOT WATER FIN-TUBE RADIATOR PIPING (MECH. RM, CORRIDORS, & LOBBY)
NOT TO SCALE



PIPE GUIDE
NOT TO SCALE



BOILER FLUE DRAIN CONNECTION DETAIL
NOT TO SCALE



BOILER COMBUSTION EXHAUST ROOF PENETRATION
NOT TO SCALE

3365 THIRD AVE

3365 Third Ave Bronx, NY 10456

Owner
3365 THIRD AVE OWNER, LLC
1605 Dr. Martin Luther King Jr. Blvd.
Bronx, NY 10453

Architect
ARCHITECTS LLP

299 Broadway, Suite 1107
New York, New York 10007

Structural Engineer
DE NARDIS ENGINEERING, LLC
15 Reservoir Road
White Plains, New York 10603

MEP
RODKIN CARDINALE CONSULTING ENG.
224 West 29th Street, 4th Floor
New York, New York 10001

BPP
SULLIVAN GROUP DESIGN, LLC
109 West 27th Street
New York, NY 10001

KEY PLAN



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MECHANICAL DETAIL SHEET 2



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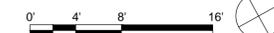
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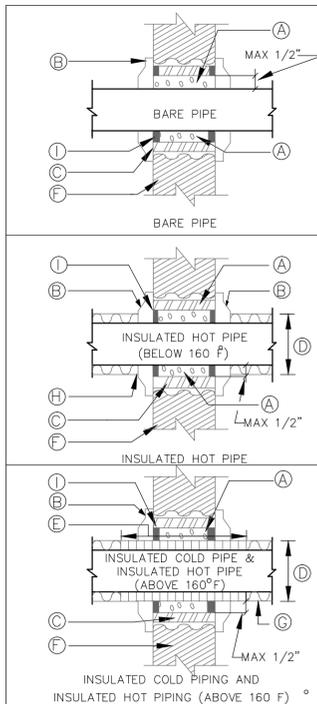
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Sheet No.:

11 of 12

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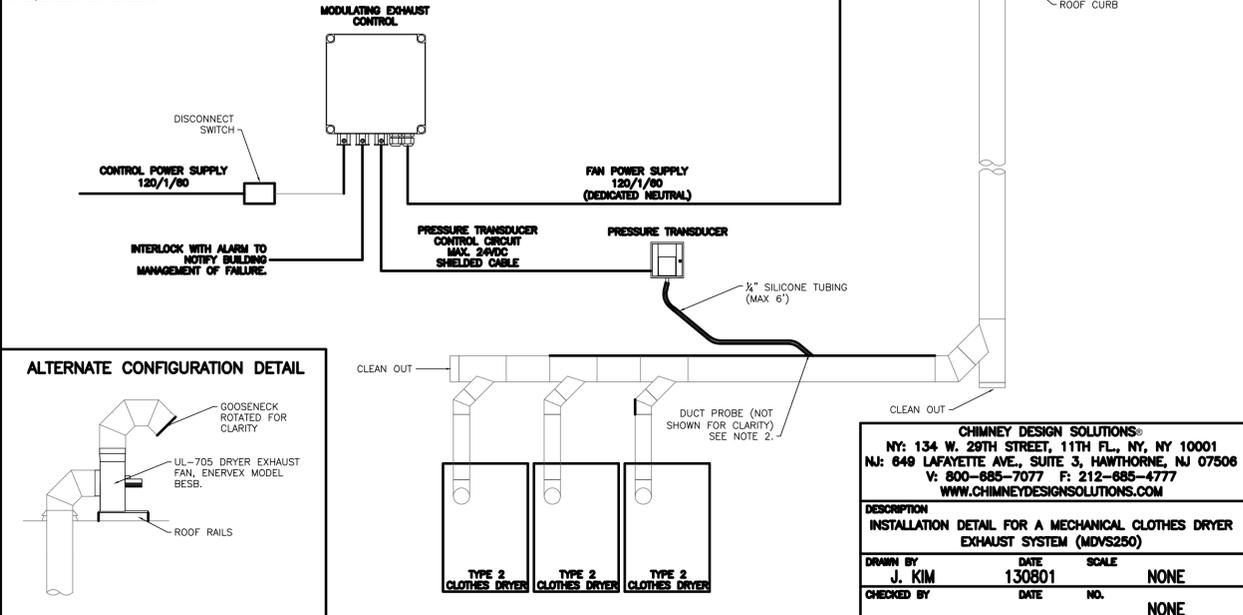




- (A) ALL SPACES PACKED FULL DEPTH WITH MINERAL WOOL OR OTHER EQUALLY APPROVED FIRE RESISTIVE MATERIAL (ASBESTOS OR FIBERGLASS SHALL NOT BE USED)
- (B) FIRE RESISTANT FOAM SEALANT CHASE FOAM CTC P2-855 (NYC MEA#58-79 M#1&11 MAY BE USED. INSTALLATION AS PER MANUFACTURER.)
- (C) ESCUTCHEON BOTH SIDES
- (D) SLEEVE
- (E) DIAMETER OF INSULATED PIPE
- (F) ANHYDROUS CALCIUM SILICATE INSULATION THRU SLEEVE
- (G) FIRE RATED PARTITION WALL OR FLOOR
- (H) FIBERGLASS INSULATION
- (I) TERMINATE INSULATION AT ESCUTCHEON
- (J) 1/2" DEPTH FIRE STOP FINISH SEALANT (SEE HVAC SPEC)

DETAIL OF PIPING PIERCING FIRE RATED PARTITIONS, WALLS AND FLOORS

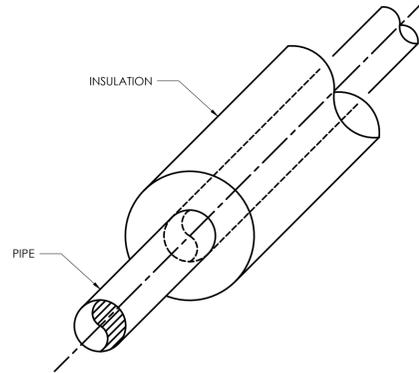
DRAWING NOTES
 1. WIRING INFORMATION IS SUITABLE FOR ENERGY MVS250 ONLY.
 2. FOLLOW EQUIPMENT MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION OF FAN AND CONTROLS. DUCT PROBE LOCATION IS JOB SPECIFIC. CONTACT CHIMNEY DESIGN SOLUTIONS AT 800-885-7077.
 3. FOLLOW EQUIPMENT MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION OF CLOTHES DRYERS.
 4. FOLLOW VENT MANUFACTURER'S RECOMMENDATIONS FOR CORRECT INSTALLATION METHODS.
 5. FOLLOW ALL PERTINENT NATIONAL, STATE, AND LOCAL CODES FOR PROPER INSTALLATION OF EQUIPMENT AND MATERIAL.



CHIMNEY DESIGN SOLUTIONS®
 NY: 134 W. 29TH STREET, 11TH FL., NY, NY 10001
 NJ: 849 LAFAYETTE AVE., SUITE 3, HAWTHORNE, NJ 07506
 V: 800-885-7077 F: 212-685-4777
 WWW.CHIMNEYDESIGNSOLUTIONS.COM

DESCRIPTION
 INSTALLATION DETAIL FOR A MECHANICAL CLOTHES DRYER EXHAUST SYSTEM (MDVS250)

| | | |
|-------------------|-------------|--------------|
| DRAWN BY | DATE | SCALE |
| J. KIM | 130801 | NONE |
| CHECKED BY | DATE | NO. |
| | | NONE |

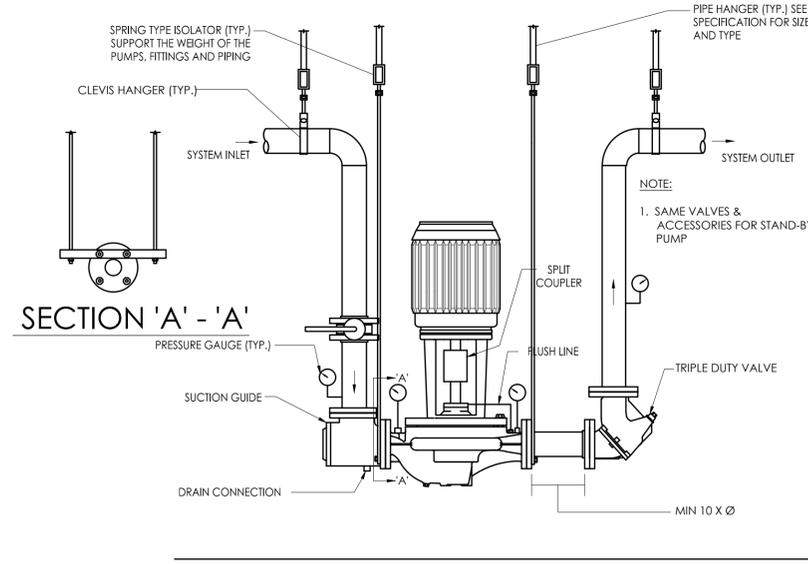


PIPING INSULATION DETAIL:

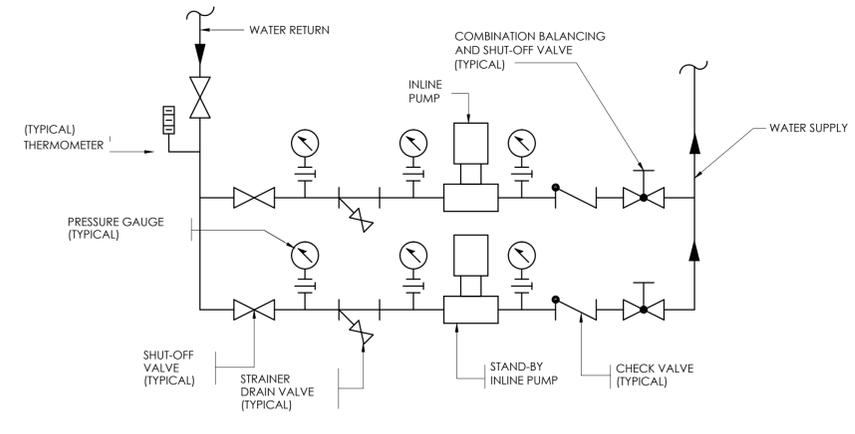
PIPING INSULATION SCHEDULE

| INSULATION THICKNESS | HOT WATER PIPE NOMINAL DIAMETER RANGE |
|----------------------|---------------------------------------|
| 1.5" | LESS THAN OR EQUAL TO 1 1/2" |
| 2" | GREATER THAN 1 1/2" |

NOTE:
 1) IN COMPLIANCE TO THE 2014 NEW YORK CITY ENERGY CONSERVATION CONSTRUCTION CODE.
 2) BASED ON INSULATION HAVING A CONDUCTIVITY (K) NO EXCEEDING 0.27 BTU PER INCH/H*FT °F.



VERTICAL IN-LINE PUMP DETAIL CEILING MOUNTED
 NOT TO SCALE



1. PUMPS AND PIPING SHALL BE SUPPORTED FROM THE ROOF. SUPPORT SHALL BE PROVIDED BY HVAC CONTRACTOR.

TYPICAL CONNECTIONS TO IN-LINE WATER PUMPS
 NOT TO SCALE

3365 THIRD AVE

3365 Third Ave Bronx, NY 10456

- Owner
 3365 THIRD AVE OWNER, LLC
 1605 Dr. Martin Luther King Jr. Blvd.
 Bronx, NY 10453
- Architect
 ARCHITECTS LLP
 299 Broadway, Suite 1107
 New York, New York 10007
- Structural Engineer
 DE NARDIS ENGINEERING, LLC
 15 Reservoir Road
 White Plains, New York 10603
- MEP
 RODKIN CARDINALE CONSULTING ENG.
 224 West 29th Street, 4th Floor
 New York, New York 10001
- BPP
 SULLIVAN GROUP DESIGN, LLC
 109 West 27th Street
 New York, NY 10001

KEY PLAN



| No. | Date | Revision |
|-----|------|----------|
| | | |

10/19/15 DOB SUBMISSION

| No. | Date | Submission |
|-----|------|------------|
| | | |

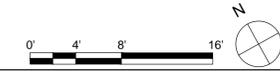
**MECHANICAL
 DETAIL SHEET 3**



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 Job No.: 1532
 Scale: AS NOTED
 Drawn By: AM
 Checked By: SR

Sheet No.:

12 of 12 **M-402.00**



COMcheck Software Version 4.0.0
Interior Lighting Compliance Certificate

Project Information
 Energy Code: 2014 New York Energy Conservation Construction Code
 Project Title: 3365 THIRD AVENUE
 Project Type: New Construction
 Construction Site: 3365 3RD AVENUE
 BRONX, NY 10456
 Owner/Agent: 3365 THIRD AVENUE OWNER, LLC
 1605 DR. MARTIN LUTHER KING JR. BLVD
 BRONX, NY 10453
 Designer/Contractor: CURTIS & GINSBERG ARCHITECTS
 LLP
 299 BROADWAY SUIT 1107
 NEW YORK, NY 10007

Additional Efficiency Package
 Reduced interior lighting power. Requirements are explicitly enforced within interior lighting allowance calculations.

Allowed Interior Lighting Power

| Area Category | B Floor Area (SQ FT) | C Allowed Watts / SQ FT | D Total Watts | E Allowed Watts (B X C) |
|--|----------------------------|-------------------------------|---------------------|-------------------------------|
| 1. Community Facility (Office) | 1001 | 0.85 | 850 | 850 |
| 2. Common Space Residential (Multi-Family) | 1123 | 0.62 | 696 | 696 |
| Total Allowed Watts = | | | | 1547 |

Proposed Interior Lighting Power

| Fixture ID / Description / Lamp / Wattage Per Lamp / Ballast | B Lamp Quantity | C Wattage Per Lamp | D Total Watts | E Allowed Watts (B X C) |
|--|-----------------------|--------------------------|---------------------|-------------------------------|
| 1. COMMUNITY FACILITY (OFFICE) | | | | |
| LED G-4 LINEAR RECESSED DOWNLIGHT ROOM: Other | 1 | 30 | 30 | 1020 |
| LED H-2X PANEL LIGHT FOR BATHROOMS: LED Panel 41W | 1 | 13 | 13 | 533 |
| LED W-10 EXIT SIGNS: LED MR 4W | 1 | 6 | 6 | 21 |
| 2. Common Space Residential (Multi-Family) | | | | |
| LED E-E CORRIDOR CEILING LGT: SHOX 4" LED PAR 12W | 1 | 39 | 39 | 468 |
| LED P-P EXTERIOR WALL MOUNTED LIGHT: Other | 1 | 38 | 38 | 1026 |
| LED G-4 LINEAR FOR UTILITY ROOMS: Other | 1 | 30 | 30 | 1020 |
| LED H-2X PANEL LIGHT FOR JANUARY: LED Panel 41W | 1 | 5 | 5 | 205 |
| LED L-P PENDANT LGT FOR 1ST FL LOBBY: LED Other Fixture Unit 50W | 1 | 2 | 50 | 100 |
| LED L-W CEILING LINE LGT FOR LOBBY: Other | 1 | 102 | 34 | 340 |
| LED L-D LED RECESSED 4" DOWNLIGHT: LED PAR 12W | 1 | 4 | 12 | 48 |
| LED L-U ELEVATOR FT LIGHT: LED PAR 13W | 1 | 1 | 13 | 13 |
| LED W-10 EXIT SIGNS FOR CELLAR & 1ST FL: LED MR 4W | 1 | 6 | 4 | 18 |
| LED W-10 EXIT SIGNS FOR TYPICAL FLOORS: LED MR 4W | 1 | 6 | 4 | 18 |
| Total Proposed Watts = | | | | 5405 |

Project Title: 3365 THIRD AVENUE Report date: 10/19/15
 Data Filename: Z:\Projects\2015-03\365 Third Ave Apartment Building_1532\Comcheck\ELEC\LIGHTING Page 1 of 9
 COMCHECK-10-06-15.cck

Interior Lighting PASSES: Design 83% better than code

Interior Lighting Compliance Statement
 Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2014 New York Energy Conservation Construction Code requirements in COMCHECK Version 4.0.0 and to comply with the mandatory requirements listed in the Inspection Checklist.



Name: Title: _____ Date: _____

Project Title: 3365 THIRD AVENUE Report date: 10/19/15
 Data Filename: Z:\Projects\2015-03\365 Third Ave Apartment Building_1532\Comcheck\ELEC\LIGHTING Page 2 of 9
 COMCHECK-10-06-15.cck

COMcheck Software Version 4.0.0
Exterior Lighting Compliance Certificate

Project Information
 Energy Code: 2014 New York Energy Conservation Construction Code
 Project Title: 3365 THIRD AVENUE
 Project Type: New Construction
 Exterior Lighting Zone: 2 (Residentially zoned area)
 Construction Site: 3365 3RD AVENUE
 BRONX, NY 10456
 Owner/Agent: 3365 THIRD AVENUE OWNER, LLC
 1605 DR. MARTIN LUTHER KING JR. BLVD
 BRONX, NY 10453
 Designer/Contractor: CURTIS & GINSBERG ARCHITECTS
 LLP
 299 BROADWAY SUIT 1107
 NEW YORK, NY 10007

Allowed Exterior Lighting Power

| Area/Surface Category | B Quantity | C Allowed Watts / Unit | D Total Watts | E Allowed Watts (B X C) |
|--|---------------|------------------------------|---------------------|-------------------------------|
| CELLAR OUTDOOR AREA (Illuminated length of facade wall or surface) | 130 ft | 2.5 | No | 200 |
| ENTRANCE (Other door not main entry) | 3 ft of door | 20 | Yes | 60 |
| ENTRANCE (Other door not main entry) | 1 ft of door | 20 | Yes | 20 |
| MAIN ENTRANCE (Main entry) | 12 ft of door | 20 | Yes | 240 |
| ROOF EXTERIOR (Illuminated length of facade wall or surface) | 39 ft | 2.5 | No | 98 |
| Total Allowed Watts (a) = | | | | 360 |
| Total Allowed Watts (b) = | | | | 708 |
| Total Allowed Watts (a + b) = | | | | 1068 |

(a) Wallage trackoffs are only allowed between tradable areas.
 (b) A supplemental allowance shall be added to Watts only the specified lowest compliance and tradable areas.

Proposed Exterior Lighting Power

| Fixture ID / Description / Lamp / Wattage Per Lamp / Ballast | B Lamp Quantity | C Wattage Per Lamp | D Total Watts | E Allowed Watts (B X C) |
|---|-----------------------|--------------------------|---------------------|-------------------------------|
| CELLAR OUTDOOR AREA (Illuminated length of facade wall or surface 320 ft): Non-tradable Wallage | 1 | 9 | 19 | 171 |
| LED P-P EXTERIOR WALL MOUNTED LIGHT: Other | 1 | 9 | 19 | 171 |
| ENTRANCE (Other door not main entry) 3 ft of door width: Tradable Wallage | 1 | 9 | 19 | 171 |
| LED P-P EXTERIOR WALL MOUNTED LIGHT: Other | 1 | 9 | 19 | 171 |
| LED P-P EXTERIOR WALL MOUNTED LIGHT: Other | 1 | 9 | 19 | 171 |
| MAIN ENTRANCE (Main entry 12 ft of door width): Tradable Wallage | 1 | 4 | 16 | 64 |
| LED X-X EXTERIOR GANTRY DOWNLIGHT: Other | 1 | 4 | 16 | 64 |
| ROOF EXTERIOR (Illuminated length of facade wall or surface 26 ft): Non-tradable Wallage | 1 | 3 | 16 | 48 |
| LED X-X EXTERIOR WALL MOUNTED LIGHT: LED PAR 18W | 1 | 3 | 16 | 48 |
| Total Proposed Watts = | | | | 408 |

Project Title: 3365 THIRD AVENUE Report date: 10/19/15
 Data Filename: Z:\Projects\2015-03\365 Third Ave Apartment Building_1532\Comcheck\ELEC\LIGHTING Page 3 of 9
 COMCHECK-10-06-15.cck

Exterior Lighting PASSES: Design 58% better than code

Exterior Lighting Compliance Statement
 Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2014 New York Energy Conservation Construction Code requirements in COMCHECK Version 4.0.0 and to comply with the mandatory requirements listed in the Inspection Checklist.



Name: Title: _____ Date: _____

Project Title: 3365 THIRD AVENUE Report date: 10/19/15
 Data Filename: Z:\Projects\2015-03\365 Third Ave Apartment Building_1532\Comcheck\ELEC\LIGHTING Page 4 of 9
 COMCHECK-10-06-15.cck

COMcheck Software Version 4.0.0
Inspection Checklist

Energy Code: 2014 New York Energy Conservation Construction Code
 Requirements: 89.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

| 2014 New York Energy | Plan Review | Complies? | Comments/Assumptions |
|----------------------|---|--|--------------------------|
| EL303.2 (EAP) | Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL303.2 (EAP) | Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| C406 (EAP) | Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | |

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: 3365 THIRD AVENUE Report date: 10/19/15
 Data Filename: Z:\Projects\2015-03\365 Third Ave Apartment Building_1532\Comcheck\ELEC\LIGHTING Page 5 of 9
 COMCHECK-10-06-15.cck

2014 New York Energy

| 2014 New York Energy | Rough-In Electrical Inspection | Complies? | Comments/Assumptions |
|----------------------|---|--|--------------------------|
| EL403.2 (EAP) | Automatic controls to shut off all building lighting installed in all buildings. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL403.2 (EAP) | Independent lighting controls installed per approved lighting plans and all manual controls readily accessible observable to occupants. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL403.2 (EAP) | Lighting controls installed to uniformly reduce the lighting load by at least 50%. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL403.2 (EAP) | Daylight zones provided with individual controls that control the lights independent of general area lighting. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL403.2 (EAP) | Sleeping units have at least one master switch at the main entry door that controls wired luminaires and switched receptacles. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL403.2 (EAP) | Occupancy sensors installed in required spaces. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL403.2 (EAP) | Primary egress areas are equipped with required lighting controls. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL403.2 (EAP) | Enclosed spaces with daylight area under skylights and roofing members are equipped with required lighting controls. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL403.2 (EAP) | Automatic lighting controls for exterior lighting installed. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL403.2 (EAP) | Separate lighting control devices for specific uses installed per approved lighting plans. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL403.4 (EAP) | Exit signs do not exceed 5 watts per foot. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL403.2 (EAP) | Additional interior lighting power allowed for special functions per the approved lighting plans and automatically controlled and manually controlled lights. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: 3365 THIRD AVENUE Report date: 10/19/15
 Data Filename: Z:\Projects\2015-03\365 Third Ave Apartment Building_1532\Comcheck\ELEC\LIGHTING Page 6 of 9
 COMCHECK-10-06-15.cck

2014 New York Energy

| 2014 New York Energy | Final Inspection | Complies? | Comments/Assumptions |
|----------------------|---|--|--|
| EL403.2 (EAP) | Furnished as-built drawings for electric power systems within 30 days of system acceptance. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL403.2 (EAP) | Furnished O&M instructions for systems and equipment to the building owner or designated representative. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL403.2 (EAP) | Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are not less than or equal to allowed watts. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | See the Interior Lighting Fixture schedule for values. |
| EL403.2 (EAP) | Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are not less than or equal to allowed watts. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | See the Exterior Lighting Fixture schedule for values. |
| EL403.3 (EAP) | Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL403.3 (EAP) | Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL406 (EAP) | Efficient HVAC performance, efficient lighting system, or on-site supply of renewable energy consistent with what is shown the approved plans. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | |

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: 3365 THIRD AVENUE Report date: 10/19/15
 Data Filename: Z:\Projects\2015-03\365 Third Ave Apartment Building_1532\Comcheck\ELEC\LIGHTING Page 7 of 9
 COMCHECK-10-06-15.cck

2014 New York Energy

| 2014 New York Energy | Final Inspection | Complies? | Comments/Assumptions |
|----------------------|---|--|--|
| EL403.2 (EAP) | Furnished as-built drawings for electric power systems within 30 days of system acceptance. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL403.2 (EAP) | Furnished O&M instructions for systems and equipment to the building owner or designated representative. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL403.2 (EAP) | Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are not less than or equal to allowed watts. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | See the Interior Lighting Fixture schedule for values. |
| EL403.2 (EAP) | Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are not less than or equal to allowed watts. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | See the Exterior Lighting Fixture schedule for values. |
| EL403.3 (EAP) | Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL403.3 (EAP) | Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL406 (EAP) | Efficient HVAC performance, efficient lighting system, or on-site supply of renewable energy consistent with what is shown the approved plans. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | |

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: 3365 THIRD AVENUE Report date: 10/19/15
 Data Filename: Z:\Projects\2015-03\365 Third Ave Apartment Building_1532\Comcheck\ELEC\LIGHTING Page 8 of 9
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2014 New York Energy

| 2014 New York Energy | Final Inspection | Complies? | Comments/Assumptions |
|----------------------|---|--|--|
| EL403.2 (EAP) | Furnished as-built drawings for electric power systems within 30 days of system acceptance. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL403.2 (EAP) | Furnished O&M instructions for systems and equipment to the building owner or designated representative. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL403.2 (EAP) | Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are not less than or equal to allowed watts. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | See the Interior Lighting Fixture schedule for values. |
| EL403.2 (EAP) | Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are not less than or equal to allowed watts. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | See the Exterior Lighting Fixture schedule for values. |
| EL403.3 (EAP) | Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL403.3 (EAP) | Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | Requirement will be met. |
| EL406 (EAP) | Efficient HVAC performance, efficient lighting system, or on-site supply of renewable energy consistent with what is shown the approved plans. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | |

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: 3365 THIRD AVENUE Report date: 10/19/15
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INTERIOR LIGHTING POWER LOAD CALCULATIONS

| FLOOR | TYPE OF SPACE | AREA (SQ.FT.) | LIGHTING SUBTOTAL WATTS | WATTS/SQFT | CODE PERMITTED WATTS/SQ.FT. | ADDITIONAL EFFICIENCY PACKAGE WATT/SQ.FT. |
|---------|--------------------------|---------------|-------------------------|------------|-----------------------------|---|
| Cellar | Community Facility | 4095 | 752.5 | 0.18 | 0.7 | 0.9 |
| | Common Space Residential | 2082 | 1131.5 | 0.54 | 0.7 | 0.6 |
| 1st FLR | Community Facility | 5396 | 1092.5 | 0.20 | 0.7 | 0.9 |
| | Common Space Residential | 1420 | 1033.5 | 0.73 | 0.7 | 0.6 |
| 2nd FLR | Common Space Residential | 2304 | 849 | 0.37 | 0.7 | 0.6 |
| 3rd FLR | Common Space Residential | 935 | 203 | 0.22 | 0.7 | 0.6 |
| 4th FLR | Common Space Residential | 935 | 203 | 0.22 | 0.7 | 0.6 |
| 5th FLR | Common Space Residential | 935 | 203 | 0.22 | 0.7 | 0.6 |
| 6th FLR | Common Space Residential | 935 | 203 | 0.22 | 0.7 | 0.6 |
| 7th FLR | Common Space Residential | 803 | 184 | 0.23 | 0.7 | 0.6 |
| 8th FLR | Common Space Residential | 803 | 184 | 0.23 | 0.7 | 0.6 |
| Roof | ROOF | 420 | 188 | 0.45 | 0.7 | 0.6 |

COMPLIANCE WITH NYC ECCC:
 TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THIS APPLICATION IS IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CONSTRUCTION CODE 2014.

LIGHTING CONTROL LEGEND

| AREA | CONTROL DESCRIPTION |
|---|---|
| CORRIDOR | CEILING MOUNTED AUTOMATIC OCCUPANCY SENSOR |
| LAUNDRY, RECREATIONAL MULTIPURPOSE ROOM | VACANCY SENSOR MANUAL ON/AUTO OFF, MANUAL/DAYLIGHT SENSOR CONTROL |
| EXTERIOR LIGHTING | PHOTOCELL TO TURN LIGHTS ON TIME CLOCK TO TURN LIGHTS OFF |
| COMMUNITY FACILITY | VACANCY SENSOR - MANUAL ON/AUTO OFF, MANUAL DAYLIGHT CONTROL |

- NOTES:
- ALL FIXTURES IN DWELLING UNITS ARE HIGH EFFICACY FIXTURES.
 - DWELLING UNITS METERS ARE LOCATED IN THE CELLAR ELECTRICAL ROOM.
 - EACH SPACE INCLUDING INDIVIDUAL DWELLING UNITS ARE INDEPENDENTLY CONTROLLED VIA SWITCH OR OCCUPANCY SENSOR.
 - EXIT SIGNS WILL NOT BE MORE THAN 5 WATTS LED TYPE.



3365 THIRD AVE

3365 Third Ave Bronx, NY 10456

Owner
 3365 THIRD AVE OWNER, LLC
 1605 Dr. Martin Luther King Jr. Blvd.
 Bronx, NY 10453

Architect
 ARCHITECTS LLP

299 Broadway, Suite 1107
 New York, New York 10007

Structural Engineer
 DE NARDIS ENGINEERING, LLC

15 Reservoir Road
 White Plains, New York 10603

MEP
 RODKIN CARDINALE CONSULTING ENG.

224 West 29th Street, 4th Floor
 New York, New York 10001

BPP
 SULLIVAN GROUP DESIGN, LLC

109 West 27th Street
 New York, NY 10001

KEY PLAN



| No. | Date | Revision |
|-----|------|----------|
| | | |

10/19/15 DOB SUBMISSION

COMcheck Software Version 4.0.2.0 Envelope Compliance Certificate

Project Information
 Energy Code: 2014 New York Energy Conservation Construction Code
 Project Title: 3365 Third Ave
 Location: Bronx County, New York
 Climate Zone: 4a
 Project Type: New Construction
 Vertical Cladding / Wall Area: 16%

Construction Site: 3365 Third Ave, Bronx, NY 10456
Owner/Agent: 3365 Third Ave Owner, LLC, 4657 Dr. Martin Luther King Jr. Blvd, Bronx, NY 10463
Designer/Contractor: Mark Ginsberg, Curtis + Ginsberg Architects LLP, 298 Broadway, Suite 1107, New York, NY 10007, 212.679.4411

Building Area
 1-Multifamily Residential: 4020
 2-Community Facility (Office) / Nonresidential: 9643

Additional Efficiency Package
 Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Envelope Assemblies

| Assembly | Gross Area Perimeter | Cavity R-Value | Cont. R-Value | Proposed U-Factor | Budget U- Factor |
|--|-------------------------|-------------------|------------------|----------------------|---------------------|
| Roof 1: Insulation Entirely Above Deck (Bldg. Use 1 - Multifamily) | 3524 | — | 40.0 | 0.025 | 0.029 |
| Roof 2: The Floor Insulation Entirely Above Deck (Bldg. Use 1 - Multifamily) | 629 | — | 40.0 | 0.025 | 0.029 |
| Roof 3: Subslab Insulation Entirely Above Deck (Bldg. Use 1 - Multifamily) | 554 | — | 40.0 | 0.025 | 0.029 |
| Roof 4: Curbside Insulation Entirely Above Deck (Bldg. Use 2 - Community Facility) | 443 | — | 40.0 | 0.025 | 0.029 |
| Roof 5: Rampway Insulation Entirely Above Deck (Bldg. Use 2 - Community Facility) | 890 | — | 40.0 | 0.025 | 0.029 |
| Exterior Wall - TYPE 5.1: Solid Concrete (Thickness, Normal Density, Furring None (Bldg. Use 1 - Multifamily)) | 10209 | — | 19.2 | 0.048 | 0.050 |
| Exterior Wall - TYPE 5.2: Solid Concrete (Thickness, Normal Density, Furring None (Bldg. Use 1 - Multifamily)) | 3602 | — | 19.2 | 0.048 | 0.050 |
| Window - Slab-on-Grade Metal Frame with Thermal Break (Part. Spca. Product ID NA, SHCC 5.4) (Bldg. Use 1 - Multifamily) | 18 | — | — | 0.360 | 0.380 |
| Window - Slab-on-Grade Metal Frame with Thermal Break (Part. Spca. Product ID NA, SHCC 5.4) (Bldg. Use 1 - Multifamily) | 1232 | — | — | 0.160 | 0.380 |
| Door - Fiberglass Glass (to 50% glazing) Normal Frame, Entrance Door, Part. Spca. Product ID NA, SHCC 6.4) (Bldg. Use 1 - Multifamily) | 49 | — | — | 0.350 | 0.770 |
| Door - Glass Entry Glass (to 50% glazing) Metal Frame, Entrance Door, Part. Spca. Product ID NA, SHCC 6.4) (Bldg. Use 1 - Multifamily) | 93 | — | — | 0.770 | 0.770 |

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Envelope Assemblies

| Assembly | Gross Area Perimeter | Cavity R-Value | Cont. R-Value | Proposed U-Factor | Budget U- Factor |
|---|-------------------------|-------------------|------------------|----------------------|---------------------|
| Part. Spca. Product ID NA, SHCC 5.4) (Bldg. Use 1 - Multifamily) | 2142 | — | 19.2 | 0.048 | 0.050 |
| Exterior Wall - TYPE 5.2: Solid Concrete (Thickness, Normal Density, Furring None (Bldg. Use 1 - Multifamily)) | 402 | — | — | 0.350 | 0.400 |
| Window - Slab-on-Grade Metal Frame with Thermal Break (Part. Spca. Product ID NA, SHCC 5.4) (Bldg. Use 1 - Multifamily) | 24 | — | — | 0.350 | 0.770 |
| Door - Fiberglass Glass (to 50% glazing) Normal Frame, Entrance Door, Part. Spca. Product ID NA, SHCC 6.4) (Bldg. Use 1 - Multifamily) | 13489 | — | 19.2 | 0.048 | 0.050 |
| Exterior Wall - TYPE 5.1: Solid Concrete (Thickness, Normal Density, Furring None (Bldg. Use 1 - Multifamily)) | 96 | — | — | 0.650 | 0.610 |
| Exterior Wall - TYPE 5.4: Slab Framed, 10" or (Bldg. Use 1 - Multifamily) | 50 | 19.0 | 23.6 | 0.031 | 0.044 |
| Door - Metal Insulated Metal Spangling (Bldg. Use 1 - Multifamily) | 24 | — | — | 0.650 | 0.610 |
| Exterior Wall - TYPE 5.2: Solid Concrete (Thickness, Normal Density, Furring None (Bldg. Use 2 - Community Facility)) | 48 | — | 19.2 | 0.048 | 0.104 |
| Exterior Wall - TYPE 5.1: Solid Concrete (Thickness, Normal Density, Furring None (Bldg. Use 2 - Community Facility)) | 3924 | — | 19.2 | 0.048 | 0.104 |
| Window - Slab-on-Grade Metal Frame with Thermal Break (Part. Spca. Product ID NA, SHCC 5.4) (Bldg. Use 2 - Community Facility) | 440 | — | — | 0.350 | 0.400 |
| Window - Slab-on-Grade Metal Frame with Thermal Break (Part. Spca. Product ID NA, SHCC 5.4) (Bldg. Use 2 - Community Facility) | 141 | — | — | 0.360 | 0.380 |
| Window - Slab-on-Grade Metal Frame with Thermal Break (Part. Spca. Product ID NA, SHCC 5.4) (Bldg. Use 2 - Community Facility) | 40 | — | — | 0.160 | 0.380 |
| Window - Slab-on-Grade Metal Frame with Thermal Break (Part. Spca. Product ID NA, SHCC 5.4) (Bldg. Use 2 - Community Facility) | 24 | — | — | 0.650 | 0.610 |
| Door - Glass Entry Glass (to 50% glazing) Metal Frame, Entrance Door, Part. Spca. Product ID NA, SHCC 6.4) (Bldg. Use 2 - Community Facility) | 126 | — | — | 0.770 | 0.770 |
| Exterior Wall - TYPE 5.1: Solid Concrete (Thickness, Normal Density, Furring None (Bldg. Use 2 - Community Facility)) | 2714 | — | 19.2 | 0.048 | 0.104 |
| Exterior Wall - TYPE 5.4: Slab Framed, 10" or (Bldg. Use 2 - Community Facility) | 50 | 19.0 | 23.6 | 0.031 | 0.044 |
| Door - Metal Insulated Metal Spangling (Bldg. Use 2 - Community Facility) | 24 | — | — | 0.650 | 0.610 |
| Exterior Wall - TYPE 5.1: Solid Concrete (Thickness, Normal Density, Furring None (Bldg. Use 2 - Community Facility)) | 4387 | — | 28.0 | 0.034 | 0.104 |
| Exterior Wall - TYPE 5.2: Solid Concrete (Thickness, Normal Density, Furring None (Bldg. Use 2 - Community Facility)) | 284 | — | 30.0 | 0.024 | 0.441 |
| Roof 1: Solid Concrete Unheated, Horizontal with vertical 4" (Bldg. Use 1 - Multifamily) | 400 | — | 30.0 | 0.024 | 0.441 |
| Roof 2: Solid Concrete Unheated, Horizontal with vertical 4" (Bldg. Use 1 - Multifamily) | 100 | — | 30.0 | 0.024 | 0.441 |
| Roof 3: Solid Concrete Unheated, Horizontal with vertical 4" (Bldg. Use 1 - Multifamily) | 155 | — | 30.0 | 0.024 | 0.441 |
| Roof 4: Solid Concrete Unheated, Horizontal with vertical 4" (Bldg. Use 1 - Multifamily) | 190 | — | 30.0 | 0.024 | 0.580 |

(a) Budget U-Factors are used for software baseline calculations ONLY, and are not code requirements.
 (b) Other components require supporting documentation for proposed U-Factors.
 (c) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
 (d) Slab-on-Grade proposed and budget U-Factors shown in table are P-Factors.

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Envelope Compliance Statement

The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems were designed to meet the 2014 New York Energy Conservation Construction Code, as amended in COMcheck Version 4.0.2.0 and to comply with the mandatory requirements listed in the "Requirements" column of the "Envelope Compliance Checklist".

Name: Mark Ginsberg Date: 10/16/15



Envelope Compliance Checklist

| Section # & Req. ID | Plan Reviewed | Field Verified | Complies? | Comments/Assumptions |
|---------------------|---|----------------|-----------|--|
| C402.2.6 | Slab edge insulation R-value (E037) | U | Complies | Requirement will be met. |
| C403.3 | Slab edge insulation installed per manufacturer's instructions (E047) | U | Complies | Requirement will be met. |
| C402.2.7 | Slab edge insulation (E037) | U | Complies | Requirement will be met. |
| C403.2 | Slab edge insulation (E037) | U | Complies | Requirement will be met. |
| C403.2.1 | Exterior insulation protected (E047) | U | Complies | Requirement will be met. |
| C403.4 | Insulation, wind, landscaping and equipment maintenance (E047) | U | Complies | Requirement will be met. |
| C402.2.8 | Minimum surface of floor structures incorporating radiant heating installed to >= 0.55. (E0127) | U | Complies | Exception: Requirement does not apply. |

Additional Comments/Assumptions:
 1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)

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COMcheck Software Version 4.0.2.0 Inspection Checklist

Energy Code: 2014 New York Energy Conservation Construction Code
 Requirements: 92.0% were addressed directly in the COMcheck software
 Text in the "Comments/Assumptions" column is provided to the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

| Section # & Req. ID | Plan Reviewed | Field Verified | Complies? | Comments/Assumptions |
|---------------------|--|----------------|-----------|---|
| C101.2 | Plans and/or specifications provide information with which compliance can be determined for the building envelope and document where exceptions to the standard are noted. | U | Complies | Location on plans/spec: a-101 |
| C402.3.1 | Vertical fenestration area <= 30 percent of the gross above-grade wall area. | U | Complies | Requirement will be met. |
| C402.3.2 | Skylight area <= 3 percent of the gross roof area. | U | Complies | Requirement will be met. |
| C402.3.3 | Areas with obstructions that block direct sunbeams on >= 1/2 of the roof for the maximum area for more than 1,500 daytime hours per year between 1 am and 1 pm. | U | Complies | Exception: Skylights designed to exclude direct sunlight entering the occupied space by use of fixed or automated shades. |

Additional Comments/Assumptions:
 1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)

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MECHANICAL ROUGH-IN INSPECTION

| Section # & Req. ID | Plan Reviewed | Field Verified | Complies? | Comments/Assumptions |
|---------------------|--|----------------|-----------|--|
| C402.4.5 | Slab and structural shaft vents have radiused dampers that automatically close. | U | Complies | Requirement will be met. |
| C402.4.5 | Outdoor air and exhaust systems have radiused dampers that automatically close when not in use and meet minimum leakage rates. Check gaskets directly where allowed. | U | Complies | Exception: Requirement does not apply. |

Additional Comments/Assumptions:
 1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)

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INSULATION INSPECTION

| Section # & Req. ID | Plan Reviewed | Field Verified | Complies? | Comments/Assumptions |
|---------------------|---|----------------|-----------|--------------------------|
| C402.4.1 | All sources of air leakage in the building envelope are sealed with weather stripping or wrapped with moisture vapor barrier. | U | Complies | Requirement will be met. |
| C402.4.2 | Factory-built fenestration and doors are sealed as meeting air leakage requirements. | U | Complies | Requirement will be met. |
| C402.4.3 | Windows are installed on all building entrances. Doors have self-closing devices. | U | Complies | Requirement will be met. |
| C402.4.4 | Vertical fenestration U-Factor. | U | Complies | Requirement will be met. |
| C402.4.5 | Vertical fenestration SHGC. | U | Complies | Requirement will be met. |
| C402.4.6 | Fenestration products rated in accordance with NFRC. | U | Complies | Requirement will be met. |
| C402.4.7 | Fenestration products are certified as performance labels or certificates provided. | U | Complies | Requirement will be met. |
| C402.4.8 | U-Factor of opaque doors. | U | Complies | Requirement will be met. |
| C402.4.9 | U-Factor of skylights. | U | Complies | Requirement will be met. |

Additional Comments/Assumptions:
 1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)

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FINAL INSPECTION

| Section # & Req. ID | Plan Reviewed | Field Verified | Complies? | Comments/Assumptions |
|---------------------|---|----------------|-----------|--|
| C402.4.9 | Weatherstrips installed on all loading dock cargo doors. | U | Complies | Exception: Requirement does not apply. |
| C402.4.8 | Recessed luminaires in thermal envelope to limit infiltration and IC rated and labeled, seal between interior finish and luminaire housing. | U | Complies | Exception: Requirement does not apply. |
| C404.1 | Efficient HVAC performance, efficient lighting system, or other strategy of renewable energy consistent with what is shown in approved plans. | U | Complies | Requirement will be met. |

Additional Comments/Assumptions:
 1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)

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3365 THIRD AVE

3365 Third Ave Bronx, NY 10456

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 New York, NY 10001

| No. | Date | Revision |
|-----|------|----------|
| | | |

10/19/15 DOB SUBMISSION

| No. | Date | Submission |
|-----|------|------------|
| | | |

Title:
BUILDING ENVELOPE COMCHECK

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 Job No.: 1507
 Scale:
 Drawn By: CN/AG
 Checked By: MEG

Sheet No.:
 of **EN-003.00**

APPENDIX B

CITIZEN PARTICIPATION PLAN

The NYC Office of Environmental Remediation and Bronx Pro Group have established this Citizen Participation Plan (CPP) because the opportunity for citizen participation is an important component of the NYC Voluntary Cleanup Program (VCP). This CPP describes how information about the project will be disseminated to the Community during the remedial process. As part of its obligations under the VCP, Bronx Pro Group will maintain a repository for project documents and provide public notice at specified times throughout the remedial program. This CPP also takes into account potential environmental justice concerns in the community that surrounds the Site. Under this CPP, project documents and work plans are made available to the public in a timely manner. Public comment on work plans is strongly encouraged during public comment periods. Work plans are not approved by the OER until public comment periods have expired and all comments are formally reviewed. An explanation of cleanup plans in the form of a public meeting or informational session is available upon request to OER's project manager assigned to this Site, Katherine Glass, who can be contacted about these issues or any others questions, comments or concerns that arise during the remedial process at (212) 676-4925.

Project Contact List: OER has established a Site contact list for this project to provide public notices in the form of fact sheets to interested members of the community. Communications will include updates on important information relating to the progress of the cleanup program at the Site as well as to request public comments on the cleanup plan. The Site contact list includes owners and occupants of adjacent buildings and homes, principal administrators of nearby schools, hospitals and day care centers, the public water supplier that serves the area, established document repositories, the representative Community Board, City Council members, other elected representatives and any local Brownfield Opportunity Area (BOA) grantee organizations. Any member of the public or organization will be added to the Site contact list on request. A copy of the Site contact list is maintained by OER's project manager. If you would like to be added to the Site contact list, contact NYC OER at (212) 788-8841 or by email at brownfields@cityhall.nyc.gov.

Repositories: A document repository is maintained online. Internet access to view OER's document repositories is available at public libraries. This document repository is intended to house, for community review, all principal documents generated during the cleanup program including Remedial Investigation (RI) plans and reports, Remedial Action Work Plans (RAWPs), and all public notices and fact sheets produced during the lifetime of the remedial project. The library nearest the Site is:

New York Public Library
Morrisania Branch
610 East 169th Street, Bronx, New York, 10456
(718) 589-9268

Hours of Operation:
10:00 AM – 7:00 PM (Monday, Tuesday, Thursday)
10:00 AM – 5:00 PM (Friday, Saturday)
Closed (Wednesday, Sunday)

Digital Documentation: OER requires the use of digital documents in our repository as a means of minimizing paper use while also increasing convenience in access and ease of use.

Issues of Public Concern: Bronx Pro Group is required to identify whether there are specific issues of concern to stakeholders proximate to the project Site.

Public Notice and Public Comment: Public notice to all members of the Site contact list is required at three major steps during the performance of the cleanup program (listed below) and at other points that may be required by OER. Notices will include Fact Sheets with descriptive project summaries, updates on recent and upcoming project activities, repository information, and important phone and email contact information. All notices will be reviewed and approved by OER prior to distribution and mailed by the Enrollee. Public comment is solicited in public notices for all work plans developed under the VCP. Final review of all work plans by OER will consider all public comments. Approval will not be granted until the public comment period has been completed.

Citizen Participation Milestones: Public notice and public comment activities occur at several steps during a typical NYC VCP project. These steps include:

- **Public Notice of the availability of the Remedial Investigation Report and Remedial Action Work Plan and a 30-day public comment period on the RAWP:** Public notice in the form of a Fact Sheet is sent to all parties listed on the Site contact list announcing the availability of the Remedial Investigation Report (RIR) and Remedial Action Work Plan (RAWP) and the initiation of a 30-day public comment period on the RAWP. The Fact Sheet summarizes the findings of the RIR and provides details of the RAWP. The public comment period will be extended an additional 15 days upon public request. A public meeting or informational session will be conducted by OER upon request.
- **Public Notice announcing the approval of the RAWP and the start of remediation:** Public notice in the form of a Fact Sheet is sent to all parties listed on the Site contact list announcing the approval of the RAWP and the start of remediation.
- **Public Notice announcing the completion of remediation, designation of Institutional and Engineering Controls, and issuance of the Notice of Completion:** Public notice in the form of a Fact Sheet is sent to all parties listed on the Site contact list announcing the completion of remediation, providing a list of all Institutional and Engineering Controls implemented for to the Site, and announcing the issuance of the Notice of Completion.

APPENDIX C

SUSTAINABILITY STATEMENT

This Sustainability Statement documents sustainable activities and green remediation efforts planned under this remedial action.

Reuse of Clean, Recyclable Materials and Reduced Consumption of Non-Renewable Resources: Reuse of clean, locally-derived recyclable materials reduces consumption of non-renewable virgin resources and can provide energy savings and greenhouse gas reduction.

If possible, Bronx Pro Group will reuse clean non-virgin materials; the results of which will be quantified and reported in the RAR.

Reduced Energy Consumption and Promotion of Greater Energy Efficiency: Reduced energy consumption lowers greenhouse gas emissions, improves local air quality, lessens in-city power generation requirements, can lower traffic congestion, and provides substantial cost savings.

Best efforts will be made to quantify energy efficiencies achieved during the remediation and will be reported in the RAR. Where energy savings cannot be easily quantified, a gross indicator of the amount of energy saved or the means by which energy savings was achieved will be reported.

Recontamination Control: Recontamination after cleanup and redevelopment is completed undermines the value of work performed, may result in a property that is less protective of public health or the environment, and may necessitate additional cleanup work later or impede future redevelopment. Recontamination can arise from future releases that occur within the property or by influx of contamination from off-site.

An estimate of the area of the Site that utilizes recontamination controls under this plan will be reported in the RAR in square feet.

Stormwater Retention: Stormwater retention improves water quality by lowering the rate of combined stormwater and sewer discharges to NYC's sewage treatment plants during periods of precipitation, and reduces the volume of untreated influent to local surface waters.

An estimate of the enhanced stormwater retention capability of the redevelopment project will be included in the RAR.

Linkage with Green Building: Green buildings provide a multitude of benefits to the city across a broad range of areas, such as reduction of energy consumption, conservation of resources, and reduction in toxic materials use.

The number of Green Buildings that are associated with this brownfield redevelopment property will be reported in the RAR. The total square footage of green building space created as a function of this brownfield redevelopment will be quantified for residential, commercial and industrial/manufacturing uses.

Paperless Voluntary Cleanup Program: Bronx Pro Group is participating in OER's Paperless VCP. Under this program, submission of electronic documents will replace submission of hard copies for the review of project documents, communications and milestone reports.

Low-Energy Project Management Program: Bronx Pro Group is participating in OER's low-energy project management program. Under this program, whenever possible, meetings are held using remote communication technologies, such as videoconferencing and teleconferencing to reduce energy consumption and traffic congestion associated with personal transportation.

Trees and Plantings: Trees and other plantings provide habitat and add to NYC's environmental quality in a wide variety of ways. Native plant species and native habitat provide optimal support to local fauna, promote local biodiversity, and require less maintenance.

An estimate of the land area that will be vegetated, including the number of trees planted or preserved, will be reported in square feet in the RAR.

APPENDIX D

SOIL/MATERIALS MANAGEMENT PLAN

1.1 Soil Screening Methods

Visual, olfactory, and PID soil screening and assessment will be performed under the supervision of a QEP and will be reported in the final remedial report. Soil screening will be performed during invasive work performed during the remedy and development phases prior to issuance of final signoff by OER.

1.2 Stockpile Methods

Excavated soil from suspected areas of contamination (e.g., hot spots, USTs, drains, etc.) will be stockpiled separately and will be segregated from clean soil and construction materials. Stockpiles will be used only when necessary and will be removed as soon as practicable. While stockpiles are in place, they will be inspected daily, and before and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by OER. Excavated soils will be stockpiled on, at minimum, double layers of 8-mil minimum sheeting, will be kept covered at all times with appropriately anchored plastic tarps, and will be routinely inspected. Broken or ripped tarps will be promptly replaced.

All stockpile activities will be compliant with applicable laws and regulations. Soil stockpile areas will be appropriately graded to control run-off in accordance with applicable laws and regulations. Stockpiles of excavated soils and other materials will be located at least of 50 feet from the property boundaries, where possible. Hay bales or equivalent will surround soil stockpiles except for areas where access by equipment is required. Silt fencing and hay bales will be used as needed near catch basins, surface waters, and other discharge points.

1.3 Characterization of Excavated Materials

Soil/fill or other excavated media that is transported off-site for disposal will be sampled in a manner required by the receiving facility, and in compliance with applicable laws and regulations. Soils proposed for reuse on-site will be managed as defined in this plan.

1.4 Materials Excavation, Load-Out, and Departure

The PE/QEP overseeing the remedial action will:

- Oversee remedial work and the excavation and load-out of excavated material;
- Ensure that there is a party responsible for the safe execution of invasive and other work performed under this work plan;
- Ensure that Site development activities and development-related grading cuts will not interfere with, or otherwise impair or compromise the remedial activities proposed in this RAWP;
- Ensure that the presence of utilities and easements on the Site has been investigated and that any identified risks from work proposed under this plan are properly addressed by appropriate parties;
- Ensure that all loaded outbound trucks are inspected and cleaned if necessary before leaving the Site;

- Ensure that all egress points for truck and equipment transport from the Site will be kept clean of Site-derived materials during Site remediation.
- Locations where vehicles exit the Site shall be inspected daily for evidence of soil tracking off premises. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to Site-derived materials.
- Open and uncontrolled mechanical processing of historical fill and contaminated soil on-site will not be performed without prior OER approval.

1.5 Off-Site Materials Transport

Loaded vehicles leaving the Site will comply with all applicable materials transportation requirements (including appropriate covering, manifests, and placards) in accordance with applicable laws and regulations, including use of licensed haulers in accordance with 6 NYCRR Part 364. If loads contain wet material capable of causing leakage from trucks, truck liners will be used. Queuing of trucks will be performed on-site, when possible in order to minimize off Site disturbance. Off-site queuing will be minimized.

Outbound truck transport routes are described in the remedial report. This routing takes into account the following factors: (a) limiting transport through residential areas and past sensitive sites; (b) use of mapped truck routes; (c) minimizing off-site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport. To the extent possible, all trucks loaded with Site materials will travel from the Site using these truck routes. Trucks will not stop or idle in the neighborhood after leaving the project Site.

1.6 Materials Disposal Off-Site

The following documentation will be established and reported by the PE/QEP for each disposal destination used in this project to document that the disposal of regulated material exported from the Site conforms with applicable laws and regulations: (1) a letter from the PE/QEP or Enrollee to each disposal facility describing the material to be disposed and requesting written acceptance of the material. This letter will state that material to be disposed is regulated material generated at an environmental remediation Site in New York City under a governmental remediation program. The letter will provide the project identity and the name and phone number of the PE/QEP or Enrollee. The letter will include as an attachment a summary of all chemical data for the material being transported; and (2) a letter from each disposal facility stating it is in receipt of the correspondence (1, above) and is approved to accept the material. These documents will be included in the final remedial report.

The RAR will include an itemized account of the destination of all material removed from the Site during this remedial action. Documentation associated with disposal of all material will include records and approvals for receipt of the material. This information will be presented in the final remedial report.

All impacted soil/fill or other waste excavated and removed from the Site will be managed as regulated material and will be disposed in accordance with applicable laws and regulations. Historic fill and contaminated soils taken off-Site will be handled as solid waste and will not be disposed at a Part 360-16 Registration Facility (also known as a Soil Recycling Facility).

Waste characterization will be performed for off-Site disposal in a manner required by the receiving facility and in conformance with its applicable permits. Waste characterization sampling and analytical methods, sampling frequency, analytical results and QA/QC will be reported in the final remedial report. A manifest system for off-site transportation of exported materials will be employed. Manifest information will be reported in the final remedial report.

Hazardous wastes derived from on-site will be stored, transported, and disposed of in compliance with applicable laws and regulations.

If disposal of soil/fill from this Site is proposed for unregulated disposal (i.e., clean soil removed for development purposes), including transport to a Part 360-16 Registration Facility, a formal request will be made for approval by OER with an associated plan compliant with 6NYCRR Part 360-16. This request and plan will include the location, volume and a description of the material to be recycled, including verification that the material is not impacted by Site uses and that the material complies with receipt requirements for recycling under 6NYCRR Part 360. This material will be appropriately handled on-site to prevent mixing with impacted material.

1.7 Materials Reuse On-site

Soil and fill that is derived from the property that meets the Soil Cleanup Objectives (SCOs) established in this plan may be reused on-site. The SCOs for on-site reuse are listed in Section 4.2 of this cleanup plan. 'Reuse on-site' means material that is excavated during the remedy or development, does not leave the property, is relocated within the same property and on land with comparable levels of contaminants in soil/fill material, compliant with applicable laws and regulations, and addressed pursuant to the NYC VCP agreement subject to ECs and ICs. The PE/QEP will ensure that reused materials are segregated from other materials to be exported from the Site and that procedures defined for material reuse in this remedial plan are followed. The expected location for placement of reused material is shown in Section 4.2.

Organic matter (wood, roots, stumps, etc.) or other waste derived from clearing and grubbing of the Site will not be buried on-site. Soil or fill excavated from the Site for grading or other purposes will not be reused within a cover soil layer or within landscaping berms.

1.8 Demarcation

After completion of hotspot removal and any other invasive remedial activities, and prior to backfilling, the top of the residual soil/fill will be defined by one of three methods: (1) placement of a demarcation layer. The demarcation layer will consist of geosynthetic fencing or equivalent material to be placed on the surface of residual soil/fill to provide an observable reference layer. A description or map of the approximate depth of the demarcation layer will be provided in the SMP; or (2) a land survey of the top elevation of residual soil/fill before the placement of cover soils, pavement and associated sub-soils, or other materials or structures or, (3) all materials beneath the approved cover will be considered impacted and subject to site management after the remedy is complete. Demarcation may be established by one or any combination of these three methods. As appropriate, a map showing the method of demarcation for the Site and all associated documentation will be presented in the RAR.

This demarcation will constitute the top of the site management horizon. Materials within this horizon require adherence to special conditions during future invasive activities as defined in the SMP.

1.9 Import of Backfill Soil From Off-Site Sources

This Section presents the requirements for imported fill materials to be used below the cover layer and within the clean soil cover layer. All imported soils will meet OER-approved backfill and cover soil quality objectives for this Site. Imported soils will not exceed groundwater protection standards established in Part 375.

A process will be established to evaluate sources of backfill and cover soil to be imported to the Site, and will include an examination of source location, current and historical use(s), and any

applicable documentation. Material from industrial sites, spill sites, environmental remediation sites, or other potentially contaminated sites will not be imported to the Site.

The following potential sources may be used pending attainment of backfill and cover soil quality objectives:

- Clean soil from construction projects at non-industrial sites in compliance with applicable laws and regulations;
- Clean soil from roadway or other transportation-related projects in compliance with applicable laws and regulations;
- Clean RCA from facilities permitted or registered by the regulations of NYSDEC.
- All materials received for import to the Site will be approved by a PE/QEP and will be in compliance with provisions in this remedial plan. The final remedial report will report the source of the fill, evidence that an inspection was performed on the source, chemical sampling results, frequency of testing, and a Site map indicating the locations where backfill or soil cover was placed.
- All material will be subject to source screening and chemical testing.
- Inspection of imported fill material will include visual, olfactory, and PID screening for evidence of contamination. Materials imported to the Site will be subject to inspection, as follows:
 - Trucks with imported fill material will be in compliance with applicable laws and regulations and will enter the Site at designated locations;
 - The PE/QEP is responsible to ensure that every truck load of imported material is inspected for evidence of contamination; and
 - Fill material will be free of solid waste including pavement materials, debris, stumps, roots, and other organic matter, as well as ashes, oil, perishables, or foreign matter.

Composite samples of imported material will be taken at a minimum frequency of one sample for every 500 cubic yards of material. Once it is determined that the fill material meets imported backfill or cover soil chemical requirements and is non-hazardous, and lacks petroleum contamination, the material will be loaded onto trucks for delivery to the Site.

RCA will be imported from facilities permitted or registered by NYSDEC. Facilities will be identified in the final remedial report. A PE/QEP is responsible to ensure that the facility is compliant with 6NYCRR Part 360 registration and permitting requirements for the period of acquisition of RCA. RCA imported from compliant facilities will not require additional testing, unless required by NYSDEC under its terms for operation of the facility. RCA imported to the Site must be derived from recognizable and uncontaminated concrete. RCA material is not acceptable for, and will not be used as, cover material.

1.10 Fluids Management

All liquids to be removed from the Site, including dewatering fluids, will be handled, transported and disposed in accordance with applicable laws and regulations. Liquids discharged into the New York City sewer system will receive prior approval by NYCDEP. NYCDEP regulates discharges to the New York City sewers under Title 15, Rules of the City of New York Chapter 19. Discharge to the New York City sewer system will require an authorization and sampling data demonstrating that the groundwater meets the city's discharge criteria. The dewatering fluid will be pretreated as necessary to meet the NYCDEP discharge criteria. If discharge to the city

sewer system is not appropriate, the dewatering fluids will be managed by transportation and disposal at an off-site treatment facility.

Discharge of water generated during remedial construction to surface waters (i.e. a stream or river) is prohibited without a SPDES permit issued by NYSDEC.

1.11 Stormwater Pollution Prevention

Applicable laws and regulations pertaining to stormwater pollution prevention will be addressed during the remedial program. Erosion and sediment control measures identified in this remedial plan (silt fences and barriers, and hay bale checks) will be installed as necessary and inspected once a week and after every storm event to ensure that they are operating appropriately. Discharge locations will be inspected to determine whether erosion control measures are effective in preventing significant impacts to receptors. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by OER. All necessary repairs shall be made immediately. Accumulated sediments will be removed as required to keep the barrier and hay bale check functional. Undercutting or erosion of the silt fence toe anchor will be repaired immediately with appropriate backfill materials. Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

1.12 Contingency Plan for Unknown Contamination Sources

This contingency plan is developed for the remedial construction to address the discovery of unknown structures or contaminated media during excavation. Identification of unknown contamination source areas during invasive Site work will be promptly communicated to OER's project manager. Petroleum spills will be reported to the NYSDEC Spill Hotline. These findings will be included in the daily report. If previously unidentified contaminant sources are found during on-site remedial excavation or development-related excavation, sampling will be performed on contaminated source material and surrounding soils and reported to OER. Analytical testing will be performed for Target Compound List (TCL) VOCs, SVOCs, pesticides, PCBs, and TAL metals, as appropriate.

1.13 Odor, Dust, and Nuisance Control

Odor Control

All necessary means will be employed to prevent on- and off-site odor nuisances. At a minimum, procedures will include: (a) limiting the area of open excavations; (b) shrouding open excavations with tarps and other covers; and (c) use of foams to cover exposed odorous soils. If odors develop and cannot otherwise be controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-site disposal; and (e) use of chemical odorants in spray or misting systems.

This odor control plan is capable of controlling emissions of nuisance odors. If nuisance odors are identified, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. OER will be notified of all odor complaint events. Implementation of all odor controls, including halt of work, will be the responsibility of the PE/QEP's certifying this remedial plan.

Dust Control

Dust management during invasive on-site work will include, at a minimum:

- Use of a dedicated water spray methodology for roads, excavation areas and stockpiles.
- Use of properly anchored tarps to cover stockpiles.

- Exercise extra care during dry and high-wind periods.
- Use of gravel or recycled concrete aggregate on egress and other roadways to provide a clean and dust-free road surface.

This dust control plan is capable of controlling emissions of dust. If nuisance dust emissions are identified, work will be halted and the source of dusts will be identified and corrected. Work will not resume until all nuisance dust emissions have been abated. OER will be notified of all dust complaint events. Implementation of all dust controls, including halt of work, will be the responsibility of the PE/QEP's responsible for certifying this remedial plan.

Other Nuisances

Noise control will be exercised during the remedial program. All remedial work will conform, at a minimum, to NYC noise control standards.

Rodent control will be provided during Site clearing and grubbing and during the remedial program, as necessary, to prevent nuisances.

APPENDIX E
MANUFACTURER SPECIFICATIONS FOR VAPOR BARRIER

Preprufe® 300R & 160R

Pre-applied waterproofing membranes that bond integrally to poured concrete for use below slabs or behind basement walls on confined sites

Advantages

- Forms a unique integral seal to concrete poured against it. This prevents water migration and makes it unaffected by ground settlement beneath slabs.
- Fully-adhered watertight laps and detailing
- Provides a barrier to water, moisture and gas – physically isolates the structure from the surrounding ground.
- BBA Certified for basement Grades 2, 3, & 4 to BS 8102:1990
- Zero permeance to moisture
- Solar reflective - reduced temperature gain
- Simple and quick to install, requiring no priming or fillets.
- Can be applied to permanent formwork - allows maximum use of confined sites.
- Self protecting - can be trafficked immediately after application and ready for immediate placing of reinforcement.
- Unaffected by wet conditions - cannot activate prematurely.
- Inherently waterproof, non-reactive system:
 - not reliant on confining pressures or hydration
 - unaffected by freeze/thaw, wet/dry cycling
- Chemically resistant, effective in all types of soils and waters - protects structure from salt or sulphate attack.

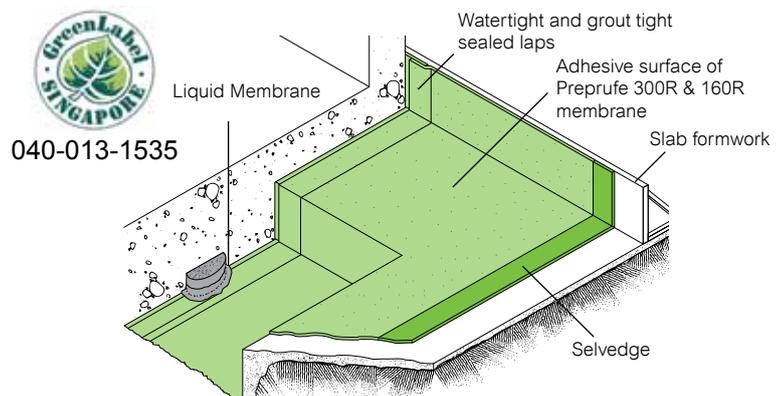
Description

Preprufe® 300R & 160R membranes are unique composite sheets comprising a thick HDPE film, an aggressive pressure sensitive adhesive and a weather resistant protective coating.

Unlike conventional non-adhering membranes, which are vulnerable to water ingress tracking between the unbonded membrane and structure, the unique Preprufe seal to concrete prevents any ingress or migration of water around the structure.

The Preprufe R System includes:

- Preprufe 300R - heavy-duty grade for use below slabs and on rafts (i.e. mud slabs). Designed to



accept the placing of heavy reinforcement using conventional concrete spacers.

- Preprufe 160R - thinner grade for lighter applications and reverse tanking (i.e. blindside zero property line) applications against permanent formwork such as soil retention systems.
- Preprufe Tape LT - for covering cut edges, roll ends, penetrations and detailing (temperatures between -4°C and +30°C).
- Preprufe Tape HC - as above for use in Hot Climates (minimum 10°C).
- Liquid Membrane - for sealing around penetrations, etc.

Preprufe 300R & 160R membranes are applied either horizontally to smooth prepared concrete or well rolled and compacted sand or crushed stone blinding; or vertically to permanent formwork or adjoining structures. Concrete is then cast directly against the adhesive side of the membranes. The specially developed Preprufe adhesive layers work together to form a continuous and integral seal to the structure.

Preprufe can be returned up the inside face of slab formwork but is not recommended for conventional twin-sided formwork on walls, etc. Use Bituthene self-adhesive membrane or Procor fluid applied membrane to walls after removal of formwork for a fully bonded system to all structural surfaces.

Installation

Preprufe® 300R & 160R membranes are supplied in rolls 1.2m wide, with a selvedge on one side to provide self-adhered laps for continuity between rolls. The rolls of Preprufe membrane and Preprufe Tape are interwound with a disposable plastic release liner which must be removed before placing reinforcement and concrete.

Substrate Preparation

All Surfaces - It is essential to create a sound and solid substrate to eliminate movement during the concrete pour. Substrates must be regular and smooth with no gaps or voids greater than 12 mm. Grout around all penetrations such as utility conduits, etc. for stability.



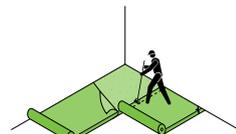
Horizontal Blinding - Monolithic concrete blinding or mud slab is preferred. The blinding must be free of loose aggregate and sharp protrusions. An angular profiled blinding is recommended rather than a sloping or rounded substrate. The surface does not need to be dry, but standing water must be removed.

Vertical Sheet Piling - Use concrete, plywood, insulation or other approved facing to sheet piling to provide support to the membrane. Board systems such as timber lagging must be close butted to provide support and not more than 12 mm out of alignment.

Membrane Installation

Preprufe can be applied at temperatures of -4°C or above. During cold or damp conditions, the selvedge and tape adhesive can be gently warmed using a hot air gun or similar to remove moisture or condensation and improve initial adhesion.

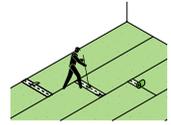
Horizontal Substrates - Place the membrane HDPE film side to the substrate with printed coated side up facing towards the concrete pour. End laps should be staggered to avoid a build up of layers. Leave plastic release liner in position until overlap procedure is completed. Accurately position succeeding sheets to overlap the previous sheet 75 mm along the marked selvedge. Ensure the underside of the succeeding sheet is clean, dry and free from contamination before attempting to overlap. Peel back the plastic release liner from between the overlaps as the two layers are bonded together. Ensure a continuous bond is achieved without creases and roll firmly with a heavy roller. Completely remove the plastic liner to expose the protective coating. Any initial tack will quickly disappear.



Vertical Substrates - Mechanically fasten the membrane vertically using fixings (i.e. fasteners) appropriate to the substrate with the printed coated side facing towards the concrete pour. The membrane may be installed in any convenient length. Secure the top of the membrane using a batten such as a termination bar or fixing 50 mm below the top edge. Fixings can be made through the selvedge so that the membrane lays flat and allows firmly rolled overlaps. Immediately remove the plastic release liner. Any additional



fixings must be covered with a patch of Preprufe Tape. Ensure the underside of the succeeding sheet is clean, dry and free from contamination before attempting to overlap. Roll firmly to ensure a watertight seal. Roll Ends and Cut Edges - Overlap all roll ends and cut edges by a minimum 75 mm and ensure the area is clean and free from contamination, wiping with a damp cloth if necessary. Allow to dry and apply Preprufe Tape LT (or HC in hot climates) centered over the lap and roll firmly. Immediately remove printed plastic release liner from the tape.

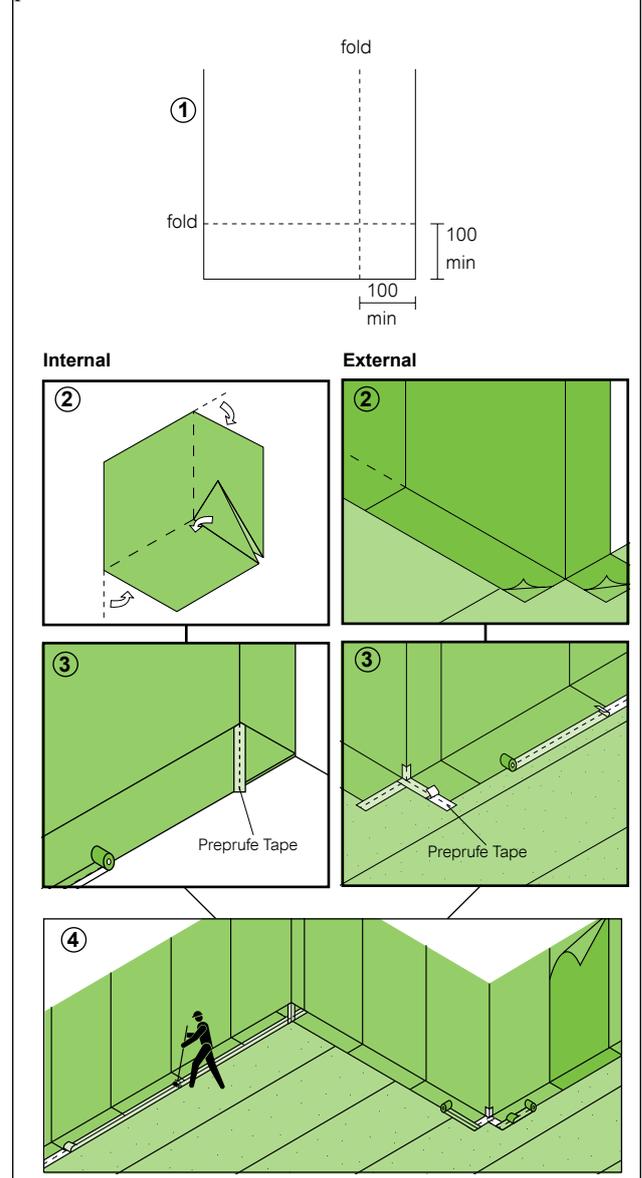


Penetrations

Use the following steps to seal around penetrations such as service pipes, piles, lightning conductors, etc. Grout around the penetration if the penetration is not stable. Scribe membrane tight to the penetration. If the membrane is not within 12mm of the penetration, apply Preprufe Tape to

Corners

Internal and external corners should be formed as shown in the diagrams returning the membrane a minimum of 100mm and sealing with Preprufe Tape. Ensure that the apex of the corner is covered and sealed with tape and roll firmly. Crease and fold the membrane to ensure a close fit to the substrate profile and avoid hollows.



cover the gap. Wrap the penetration with Preprufe Tape by positioning the tape 12 mm above the membrane. Mix and apply Bituthene Liquid Membrane around the penetrations using a fillet to provide a watertight seal between the Preprufe membrane and Preprufe Tape.

Membrane Repair

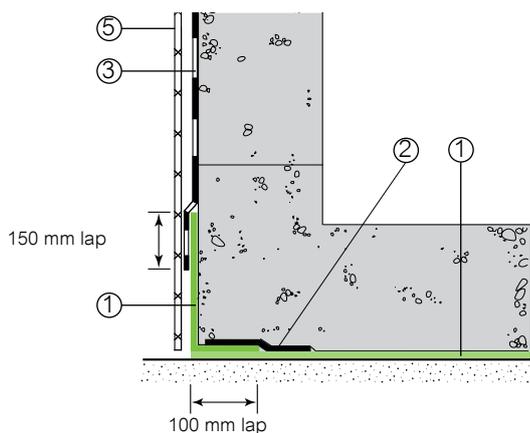
Inspect the membrane before installation of reinforcement steel, formwork and final placement of concrete. The membrane can be easily cleaned by jet washing if required. Repair damage by wiping the area with a damp cloth to ensure the area is clean and free from dust, and allow to dry. Apply Preprufe Tape centered over the damaged area and roll firmly. Any areas of damaged adhesive should be

covered with Preprufe Tape. Remove printed plastic release liner from tape. Where exposed selvedge has lost adhesion or laps have not been sealed, ensure the area is clean and dry and cover with fresh Preprufe Tape, rolling firmly. Alternatively, use a hot air gun or similar to activate adhesive and firmly roll lap to achieve continuity.

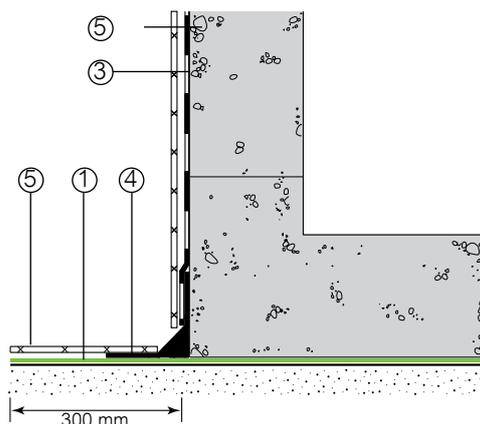
Pouring of Concrete

Ensure the plastic release liner is removed from all areas of Preprufe R membrane and Tape. It is recommended that concrete be poured within 56 days (42 days in hot climates) of application of the membrane. Concrete must be placed and compacted carefully to avoid damage to the membrane. Never use a sharp object to consolidate the concrete.

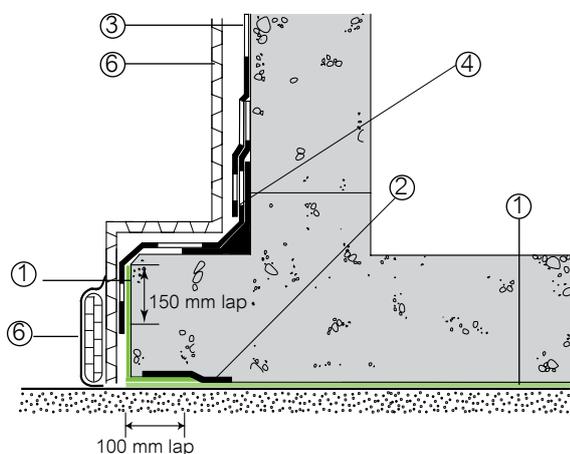
Wall base detail



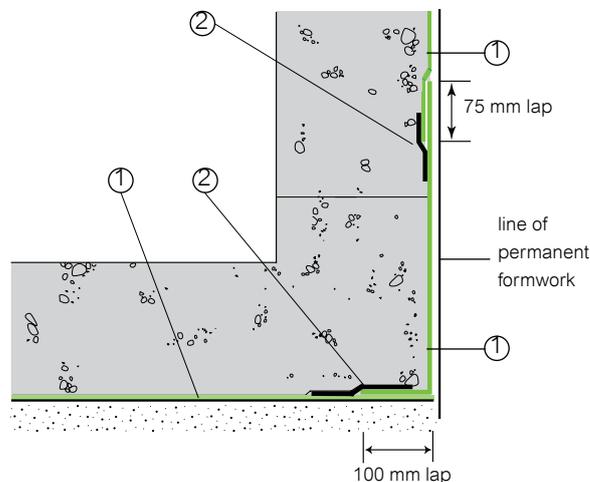
Alternative wall base detail for early shutter removal



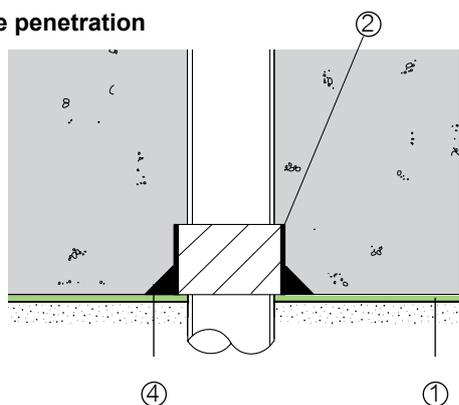
Wall base with toe detail showing drainage option



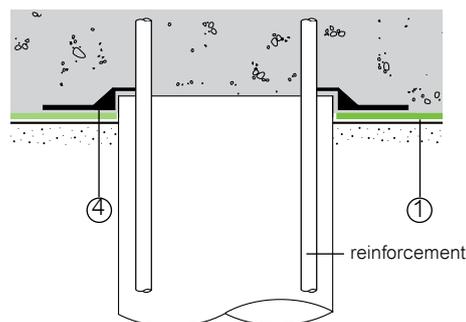
Wall base detail against permanent shutter



Pipe penetration



Pile detail



- | | | |
|-----------------|-------------------------|--------------|
| 1 Preprufe | 3 Bituthene® or Procor® | 5 Protection |
| 2 Preprufe Tape | 4 Liquid Membrane | 6 Hydroduct® |

Details shown are typical illustrations and not working details. For assistance with detailing and problem solving please contact Grace Technical Department.

Physical Properties

| Property | Typical Value | | Test Method |
|--------------------------------|---------------|--------|---------------------|
| | 300R | 160R | |
| Colour | White | | |
| Thickness* | 1.2 mm | 0.8 mm | ASTM D3767 |
| Peel Adhesion to Concrete | 880 N/m | | ASTM D903 modified |
| Resistance to Hydrostatic Head | >70 m | | ASTM D5385 modified |
| Low Temperature Flexibility | <-23°C | | ASTM D1970 |
| Puncture Resistance | 990 N | 445 N | ASTM E 154 |
| Elongation | 300% minimum | | ASTM D412 modified |
| Tensile Strength, Film | 27.6 Mpa | | ASTM D412 |
| Crack Cycling @ -23°C | Pass | | ASTM C 836 |

Typical test values represent average values from samples tested. Test methods noted may be modified.

* Nominal thickness refers to the thickness of the membrane without release liner.

Supply

| Preprufe | 300R | 160R | Tape LT or HC* |
|---|---------------------|-------------------|----------------|
| Thickness (nominal) | 1.2 mm | 0.8 mm | - |
| Roll size | 1.2x30.0 m | 1.2x35.0 m | 100 mmx15.0 m |
| Roll area | 36.0 m ² | 42 m ² | - |
| Roll weight | 50 kg | 42 kg | 2 kg |
| Min. edge/end laps | 75 mm | 75 mm | 75 mm |
| * LT denotes Low Temperature (between -4°C and +30°C) HC denotes Hot Climates (>+10°C) | | | |
| Ancillary Products | | | |
| Liquid Membrane, 5.7 litre | | | |

Removal of Formwork

Preprufe membranes can be applied to removable formwork, such as slab perimeters, elevator and lift pits, etc. Once the concrete is poured the formwork must remain in place until the concrete has gained sufficient compressive strength to develop the surface bond. Preprufe membranes are not recommended for conventional twin-sided wall forming systems.

A minimum concrete compressive strength of 10 N/mm² (1500 psi) is recommended prior to stripping formwork supporting Preprufe membranes. Premature stripping may result in displacement of the membrane and/or spalling of the concrete.

As a guide, to reach the minimum compressive strength stated above, a structural concrete mix with an ultimate strength of 40 N/mm² (6000 psi) will typically require a cure time of approximately 6 days at an average ambient temperature of 4°C, or 2 days at 21°C.

Specification Clauses

Preprufe 300R or 160R shall be applied with its adhesive face presented to receive fresh concrete to which it will integrally bond. Only Grace Construction Products approved membranes shall be bonded to Preprufe 300R & 160R. All Preprufe 300R & 160R system materials shall be supplied by Grace Construction Products, and applied strictly in accordance with their instructions. Specimen performance and formatted clauses are also available.

Health and Safety

Refer to relevant Material Safety data sheet. Complete rolls should be handled by a minimum of two persons.

Grace Technical Services

For assistance with working drawings for projects and additional technical advice, please contact Grace Technical Services.

www.grace.com/construction

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 Korea (82-32) 820 0800 Malaysia (60-3) 9074 6133 Philippines (63-49) 549 7373 Singapore (65) 6265 3033
 Thailand (66-2) 709 4470 Vietnam (84-8) 3710 6168

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APPENDIX F
SPECIFICATIONS FOR SUB-SLAB DEPRESSURIZATION SYSTEM

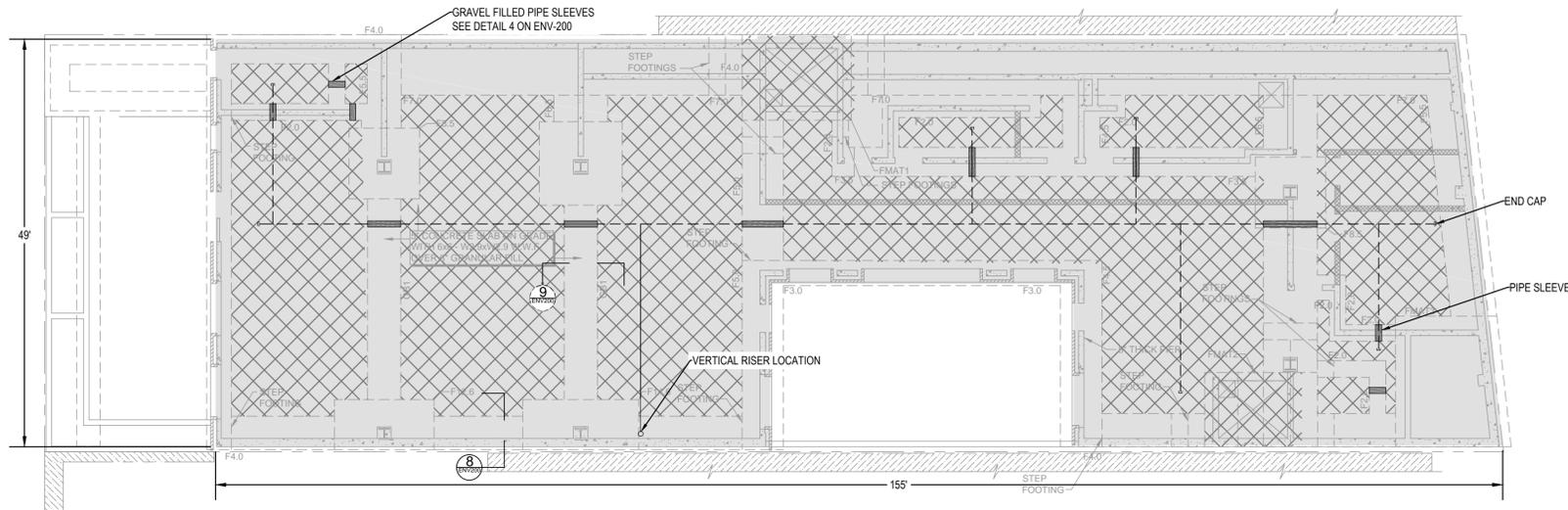


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 BRONX PRO GROUP
 1605 DR. MARTIN LUTHER KING JR. BLVD.
 BRONX, NY 10453

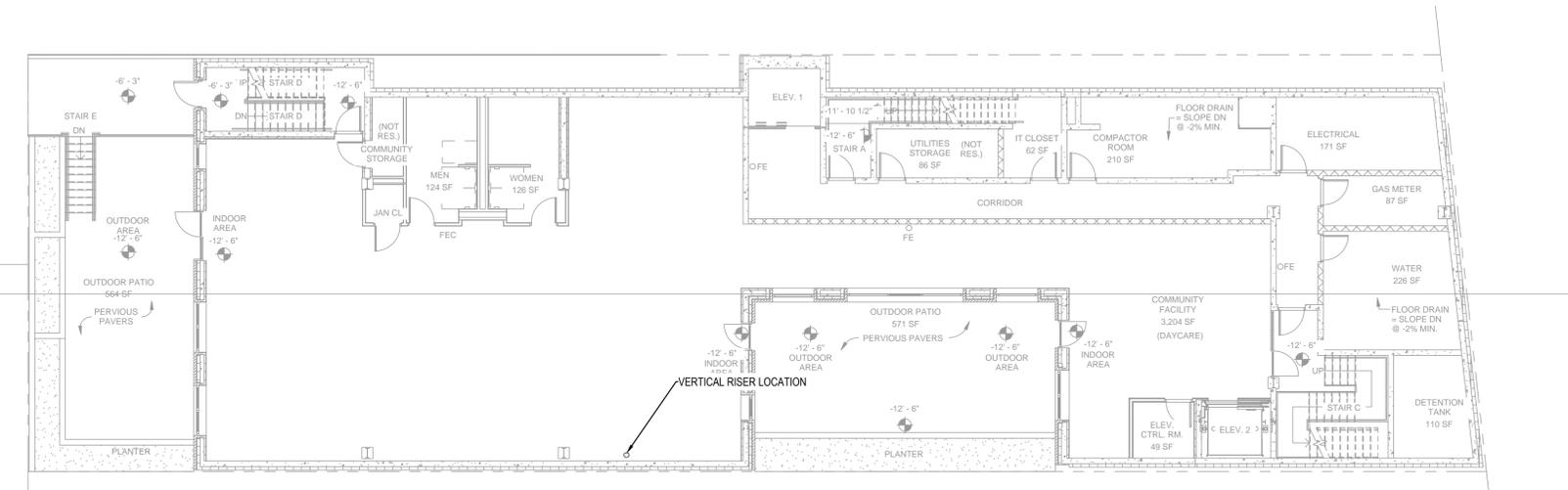
ENVIRONMENTAL ENGINEER

AKRF
 AKRF ENGINEERING, P.C.
 440 PARK AVENUE SOUTH
 NEW YORK, NY 10016
 (212) 696-0670 (PHONE)
 (212) 726-0942 (FAX)

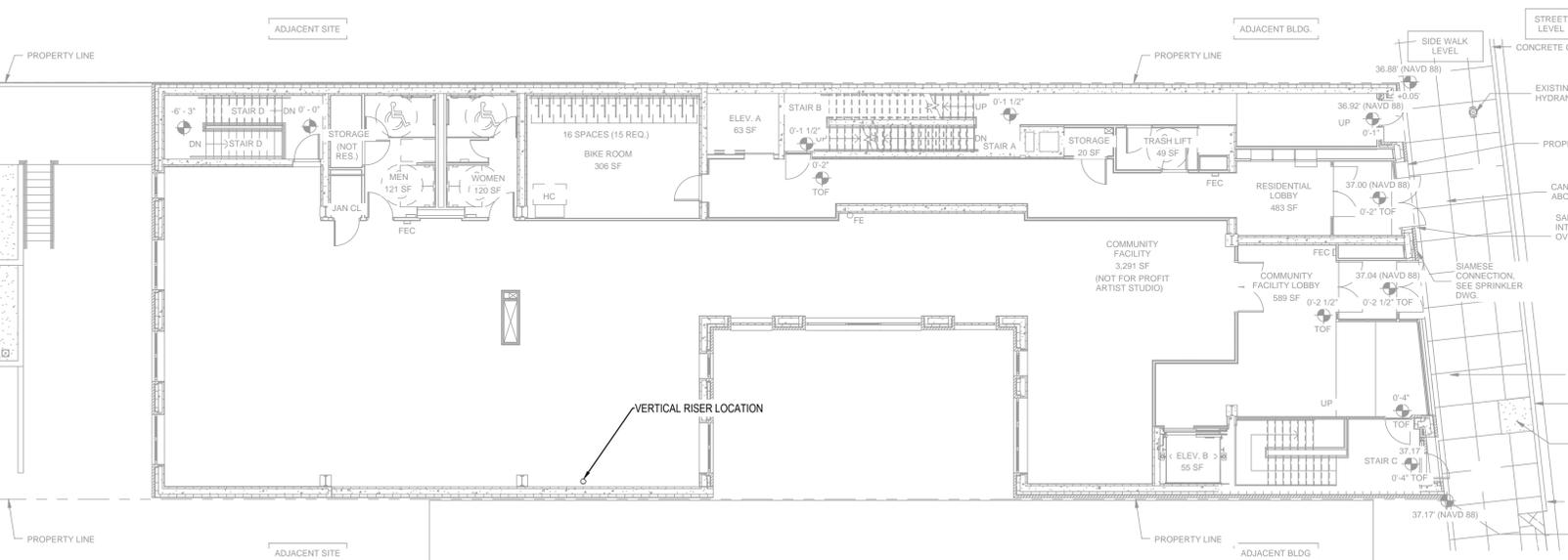
ARCHITECT
 CURTIS + GINSBERG ARCHITECTS LLP
 299 BROADWAY, SUITE 1107
 NEW YORK, NY 10007
 (212) 929-4417 (PHONE)
 (212) 929-4756 (FAX)



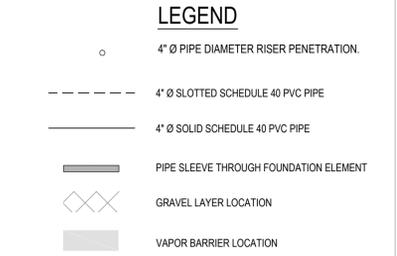
1
 ENV100 S-100 CELLAR FOUNDATION PLAN
 SCALE: 1:10



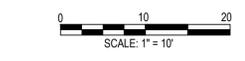
2
 ENV100 A-100 CELLAR PLAN
 SCALE: 1:10



3
 ENV100 A-100 FIRST FLOOR PLAN
 SCALE: 1:10



- GENERAL NOTES:**
1. DRAWING SHALL NOT BE USED FOR STRUCTURAL, ARCHITECTURAL, UTILITY, OR OTHER REFERENCE EXCEPT FOR THE SUB-SLAB DEPRESSURIZATION SYSTEM AND VAPOR BARRIER.
 2. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF ALL PIPE LAYOUTS AND RISER LOCATION FOR APPROVAL.
 3. INSTALLATION OF THE SUB-SLAB COMPONENTS AND VENT AND RISER PIPING, AND ROOF PENETRATIONS MUST BE COORDINATED WITH OTHER TRADES FOR THE INSTALLATION OF OTHER UTILITIES AND STRUCTURAL COMPONENTS.
 4. THE FULL EXTENTS OF THE BUILDING CONSTRUCTION BENEATH THE FLOOR SLABS SHALL BE LINED WITH GAS PERMEABLE AGGREGATE AND VAPOR BARRIER EXCEPT AS NOTED ON THIS DRAWING AND AS REQUIRED BY FOUNDATION ELEMENT LAYOUTS IN STRUCTURAL PLANS. ALL DEVIATION SHALL BE PROPOSED IN SHOP DRAWING SUBMITTAL PRIOR TO INSTALLATION IN THE FIELD.
 5. GRACE PREPRUFE 300R OR APPROVED EQUAL SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATION SECTION 02 80 00 (AND ALL OTHER APPLICABLE SPECIFICATION SECTIONS), AND RELATED DRAWINGS.
 6. ALL SOLID HORIZONTAL PIPE RUNS MUST BE PITCHED A MINIMUM OF 1/8-INCH VERTICAL PER FOOT HORIZONTAL (1% SLOPE) TOWARDS EACH SECTION OF SLOTTED VENTING PIPE. THE SYSTEM SHALL BE INSTALLED SUCH THAT NO PORTION WILL ALLOW EXCESS ACCUMULATION OF CONDENSATION. SOLID UNDERGROUND PIPING MAY BE PITCHED TO CONDENSATE DRAIN, SHOULD THEY BE NECESSARY (SEE DETAIL 6. ENV-200).
 7. UNLESS OTHERWISE SPECIFIED, ALL UNDERGROUND PIPING SHALL BE CONSTRUCTED OF 4-INCH SCHEDULE 40 PVC AND ALL ABOVEGROUND RISER PIPING SHALL BE CONSTRUCTED OF 4-INCH GALVANIZED STEEL.
 8. RISER PIPE LOCATIONS FROM SUB-SLAB TO ROOF SHALL BE COORDINATED WITH ARCHITECT AND MECHANICAL ENGINEER. RISER PIPE SHALL BE EXTENDED TO THE ROOF WITH MINIMAL CHANGES IN DIRECTION. ANY NECESSARY LATERAL PIPE RUNS SHALL BE PROPOSED IN SHOP DRAWINGS PRIOR TO FIELD INSTALLATION.
 9. ALL CONNECTIONS AT PIPE FITTINGS AND JOINTS SHALL BE LEAK FREE. THIS SHALL BE DEMONSTRATED BY THE PERFORMANCE OF A POSITIVE 5 POUNDS PER SQUARE INCH (PSI) (MIN.) PRESSURE TEST AS DETAILED IN SPECIFICATION 02 80 00 SECTION 3.01.
 10. RISER PIPE SHALL BE PERMANENTLY IDENTIFIED WITHIN EACH FLOOR LEVEL. BACKGROUND SHALL BE SAFETY BLUE WITH WHITE LETTERING. LETTERING SHALL READ:
 "CAUTION: DO NOT ALTER SUBSURFACE VAPOR VENT PIPE."
 11. ALL EXTERNAL PIPES OR PIPES EXPOSED TO MOISTURE AND METAL SYSTEM COMPONENTS SHALL BE PAINTED WITH A CORROSION RESISTANT COATING.
 12. EXHAUST STACKS SHALL BE SECURELY ANCHORED WITH ADEQUATE STRUCTURAL SUPPORTS. SEE ENV-200, DETAIL 10.
 13. SSDS DESIGN DETAILS AND DRAWINGS ARE ADAPTED FROM EPA DOCUMENT EPA/625/R-92/016.
 14. VENT AND RISER PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE NEW YORK CITY PLUMBING CODE, INCLUDING, BUT NOT LIMITED TO, THOSE REQUIREMENTS PERTAINING TO:
 • PROTECTION OF SYSTEM COMPONENTS
 • TRENCHING, EXCAVATION, AND BACKFILL
 • STRUCTURAL SAFETY
 • PIPING SUPPORT
 • JOINTS
 15. SYSTEM INSTALLATION SHALL ADHERE TO: OCTOBER 2006 FINAL GUIDANCE FOR EVALUATING SOIL VAPOR INTRUSION IN THE STATE OF NEW YORK PREPARED BY NEW YORK STATE DEPARTMENT OF HEALTH (NYSDOH), ALL APPLICABLE PORTIONS OF THE BUILDING CODE OF THE CITY OF NEW YORK, INCLUDING BUT NOT LIMITED TO 2014 NEW YORK CITY MECHANICAL CODE, CHAPTER 5, SECTION MC 512-SUBSLAB EXHAUST SYSTEMS. AS SUCH, POINT OF EXHAUST SHALL BE:
 • AT LEAST 2 FEET ABOVE PARAPET.
 • AT LEAST 10 FEET FROM ANY ADJOINING OR ADJACENT BUILDINGS, OPERABLE WINDOWS, HVAC INTAKES, SUPPLY REGISTERS, OR ANY OTHER AIR INLETS.



| REVISIONS | | |
|-----------|------------|--------------------|
| No. | DATE | DESCRIPTION |
| | 12/04/2015 | OER SUBMISSION |
| | 01/27/2016 | 2ND OER SUBMISSION |
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PROJECT

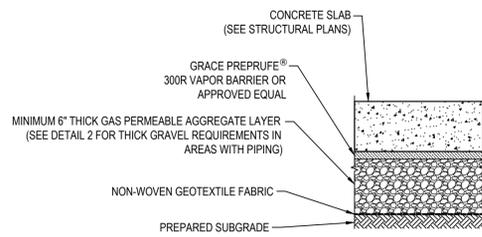
**3365 THIRD AVE
 BRONX, NY 10546**

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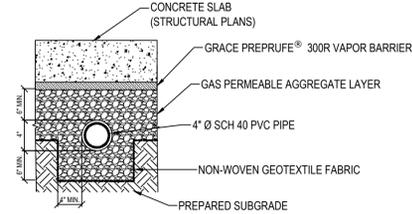
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 VENTILATION SYSTEM
 AND RISER LOCATION
 PLAN**

SHEET NO.
ENV-100

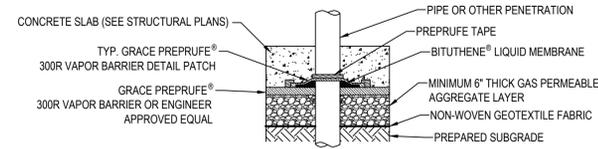
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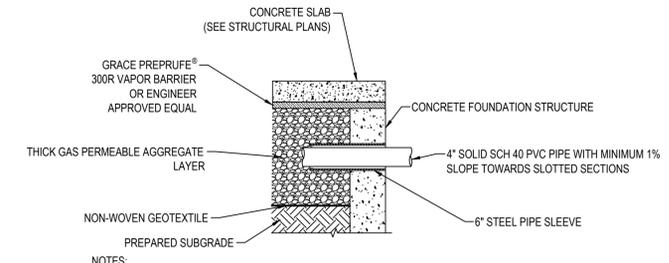
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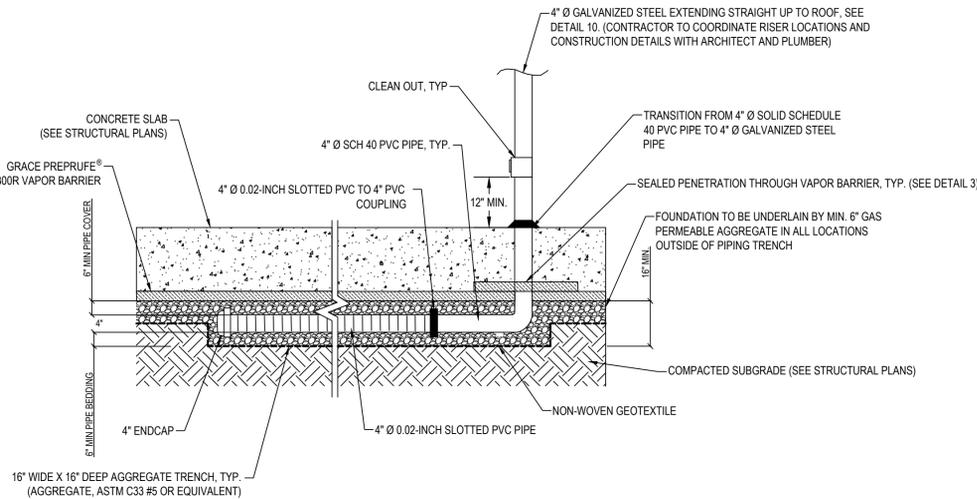
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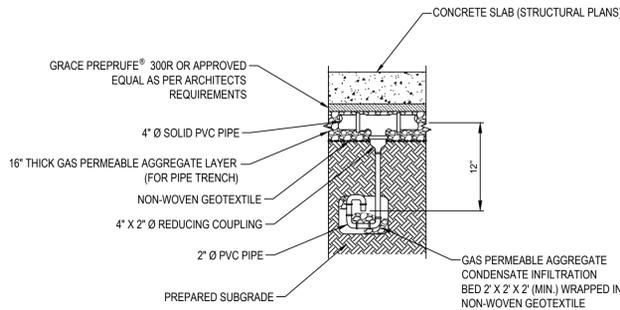
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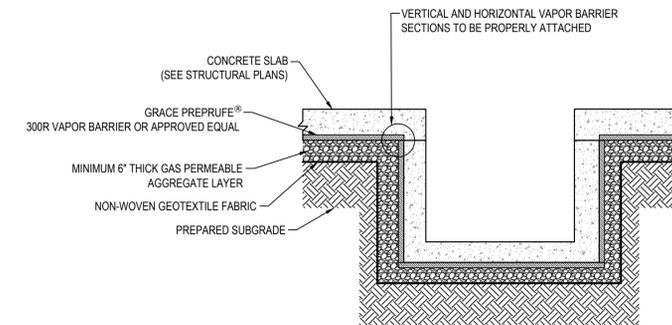
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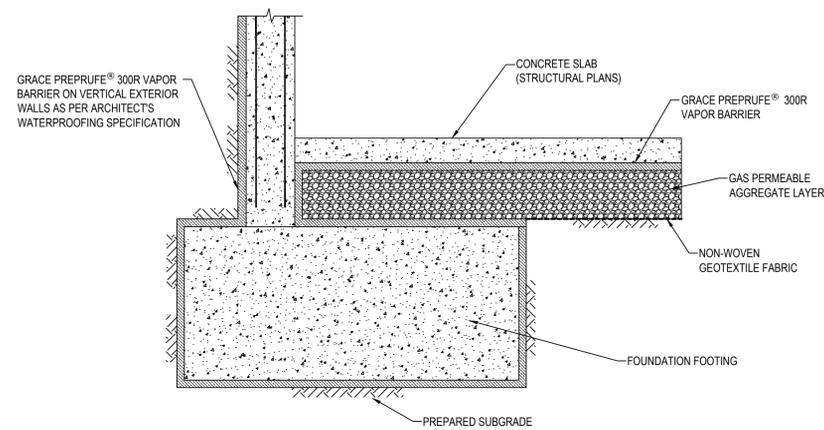
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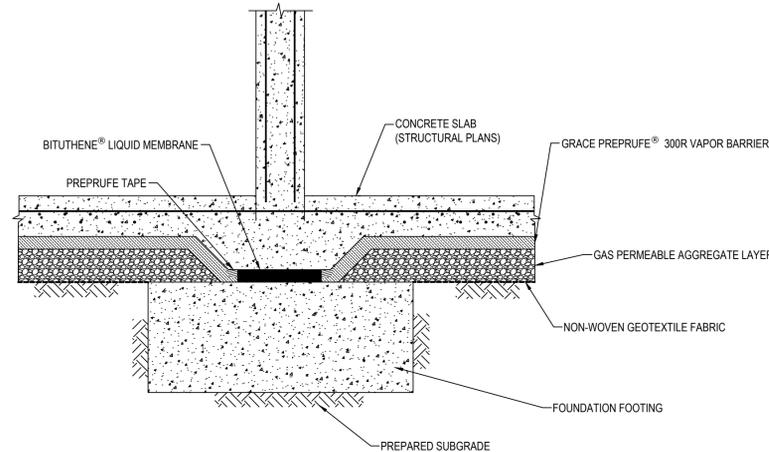
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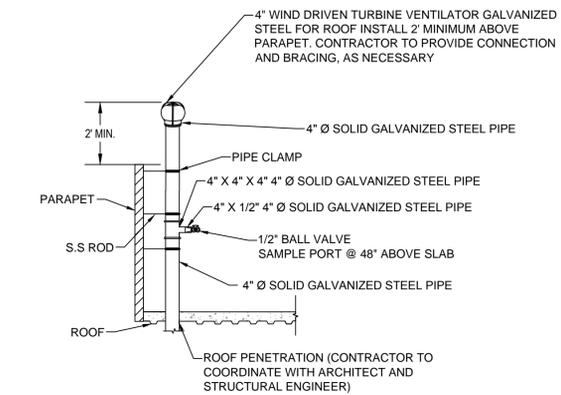
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8 VAPOR BARRIER AT TYPICAL PROPERTY LINE FOOTING
SCALE: NTS



9 VAPOR BARRIER AT TYPICAL INTERIOR CMU WALL
SCALE: NTS



10 VERTICAL RISER EXHAUST STACK
SCALE: NTS

NOTE:
REFER TO ENV-100 THROUGH ENV-102 FOR GENERAL SYSTEM NOTES

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REVISIONS

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PROJECT

3365 THIRD AVE
BRONX, NY 10546

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| DRAWN BY KH | CHECKED BY MG |
| SCALE AS NOTED | DATE 12/04/2015 |

SHEET TITLE
PASSIVE VENTING
SYSTEM AND VAPOR
BARRIER DETAILS

SHEET NO.
ENV-200

APPENDIX G
CONSTRUCTION HEALTH AND SAFETY PLAN

3363 and 3365 Third Avenue

BRONX, NEW YORK

Construction Health and Safety Plan

OER Project Number: 15EHAZ318X

E-Designation Number E-118

Prepared for:

Bronx Pro Group
1605 Dr. Martin Luther King Jr. Blvd
Bronx, NY 10453

Prepared by:



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JANUARY 2016

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FIGURES

Figure 1 – Hospital Location Map

APPENDICES

- Appendix A – Potential Health Effects from On-site Contaminants
- Appendix B – Report Forms
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1.0 PURPOSE

The purpose of this Construction Health and Safety Plan (CHASP) is to assign responsibilities, establish personnel protection standards and mandatory safety practices and procedures, and provide for contingencies that may arise during construction at the project Site. The CHASP is intended to minimize health and safety risks resulting from the known and potential presence of hazardous materials on the Site.

This plan is not designed to address potential geotechnical, mechanical, or structural safety concerns, nor to supersede or replace any Occupational Health and Safety Administration (OSHA) regulation and/or local and state construction codes or regulations.

2.0 APPLICABILITY

Work subject to this CHASP includes activities that disturb the existing soil or groundwater on-site. The contractors and their subcontractors involved in the construction project will provide a copy of this CHASP to their employees whose work involves any potential exposure to the on-site chemical hazards, and will complete all work in accordance with this CHASP. All work outlined within the CHASP is subject to the Remedial Action Work Plan (RAWP) developed for the Site.

3.0 SITE DESCRIPTION

3.1 General Information

The Site is located at 3363 and 3365 Third Avenue in the Morrisania neighborhood of the Bronx, New York and is identified as Block 2370, Lots 33 and 34 on the New York City Tax Map. A map showing the Site location is provided as Figure 1. The Site is approximately 8,652 square feet. Currently, Lot 33 contains a vacant three-story commercial building with a west-adjacent yard and Lot 34 consists of an asphalt-paved lot.

The proposed development project consists of the demolition of the existing Site building and the construction of a nine-story mixed-use building with community space in the cellar and on the first floor, and approximately 30 affordable housing units above. Excavation is expected to extend approximately 14 feet below grade across the majority of the Site, with localized excavation extending to approximately 20 feet in the south and north-central portions of the Site to accommodate two elevator pits. The western and south-central portions of the Site will be graded for exterior courtyards.

3.2 Hazard Potential

Previous investigations for the Site include: a February 2015 Asbestos Assessment Report by Accredited Environmental Solutions and a Remedial Investigation Report (RIR) by AKRF. Data and information from these previous reports was compiled and evaluated to develop this CHASP. Significant findings of the Remedial Investigation, which are pertinent to the development activities proposed for the Site include the following:

- Fourteen soil samples were collected from soil borings SB-1 through SB-9. Soil samples analytical results were compared to the Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs). Volatile organic compounds (VOCs) were detected in five of the fourteen soil samples. One VOC, chloroform, was detected in soil sample SB-1 (10-12) below the UUSCO and RRSCO.

- Twenty-four semivolatile organic compounds (SVOCs) were detected in nine of the fourteen soil samples at concentrations ranging between 14.2 micrograms per kilogram (mg/kg) and 1,320 mg/kg. Two SVOCs [benzo(k)fluoranthene and chrysene] were detected in soil sample SB-8 (10-12) at concentrations exceeding UUSCOs but below RRSCOs. Five SVOCs [benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene] were detected at concentrations above UUSCOs and RRSCOs in three soil samples.
- Nineteen metals were detected in each of the fourteen soil samples. Seven metals (barium, cadmium, copper, lead, mercury, nickel, and zinc) were detected above UUSCOs. Of those, barium, cadmium, copper, and lead were additionally detected above RRSCOs in three soil samples.
- Two PCBs (Aroclor 1254 and Aroclor 1260) were detected in soil samples SB-2 (10-12) and SB-1 (0-2), respectively, above UUSCOs but below RRSCOs.
- Four pesticides (4,4'-DDD, 4,4'-DDE, 4,4'-DDT, and chlordane) were detected in five of the soil samples above UUSCOs but below RRSCOs.
- Overall, the soil results identified compounds consistent with historical fill material in NYC and are likely not indicative of a spill or release at the Site.
- Three groundwater samples were collected from temporary groundwater monitoring wells TW-1 through TW-3. Groundwater samples results were compared to New York State 6NYCRR Part 703.5 Class GA groundwater quality standards (GQS). Four VOCs (chloroform, tetrachloroethene, toluene, and trichloroethene) were detected, all at low-level concentrations below the GQS.
- One SVOC, diethyl phthalate, was detected in two of the groundwater samples, but at low-level concentrations below the GQS.
- Twenty metals were detected in the unfiltered groundwater samples (total metals analysis) and four metals in the filtered samples (dissolved metals analysis). Of these, fifteen total metals (arsenic, barium, beryllium, cadmium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, selenium, sodium, and zinc) and three dissolved metals (magnesium, manganese, and sodium) were detected above their GQS.
- No PCBs or pesticides were detected in the groundwater samples.
- Soil vapor sampling results were conservatively compared to the NYSDOH 2006 Guidance for Evaluating Soil Vapor Intrusion indoor Air Guideline Values (AGVs) and matrices, the September 2013 NYSDOH Fact Sheet update for PCE, the August 2015 NYSDOH Fact Sheet update for TCE, and the Indoor Upper Fence Guidelines. The analysis identified 32 VOCs in the three samples. VOCs associated with petroleum [including benzene, toluene, ethylbenzene, xylenes (collectively referred to as BTEX), and 2,2,4-trimethylpentane] were detected at concentrations up to 67 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). Solvent-related VOCs [including acetone, chloroform, cyclohexane, hexane, PCE, TCE, 1,1,1-trichloroethane, and methyl ethyl ketone (MEK)] were detected at concentrations up to 294 $\mu\text{g}/\text{m}^3$. Acetone was detected in each of the samples; however, acetone is a common laboratory contaminant and its detection may likely not be indicative of actual Site conditions.
- PCE was detected in soil vapor sample SV-1 at a concentration of 215 $\mu\text{g}/\text{m}^3$, above the indoor AGV of 30 $\mu\text{g}/\text{m}^3$. TCE was detected in soil vapor sample SV-1 at a concentration of

3.9 $\mu\text{g}/\text{m}^3$, above the indoor AGV of 2 $\mu\text{g}/\text{m}^3$. Levels of PCE and TCE in the other two samples were below AGVs.

- Based on an evaluation of the data and information from the investigation, there is some contaminated soil and soil gas present at the Site above the stringent criteria to which these were compared, seemingly primarily related to the historical fill, and PCE and TCE above the NYSDOH indoor air AGVs in soil vapor sample SV-1.

3.3 Hazard Evaluation

The most likely routes of exposure are breathing volatile and semi-volatile compounds or particulate-laden air released during soil disturbing activities, dermal contact, and accidental ingestion. Appendix A includes specific health effects from chemicals present or potentially present on-site. Although some of the chemicals of concern listed in the sections below were not detected during the subsurface investigation, they are included as a precaution. The remaining sections of this CHASP address procedures (including training, air monitoring, work practices, and emergency response) to reduce the potential for unnecessary and unacceptable exposure to these contaminants.

The potential adverse health effects from these contaminants are diverse. Many of these compounds are known or suspected to result in chronic illness from long-term exposures. However, due to the limited nature of the proposed construction, only acute effects are a potential concern.

This CHASP addresses potential environmental hazards from the presence of hazardous materials. It is not intended to address the normal hazards of construction work, which are separately covered by OSHA regulations and/or local and state construction codes and regulations.

3.3.1 Hazards of Concern

| Check all that apply | | |
|---|---|--|
| <input checked="" type="checkbox"/> Organic Chemicals | <input checked="" type="checkbox"/> Inorganic Chemicals | <input type="checkbox"/> Radiological |
| <input type="checkbox"/> Biological | <input type="checkbox"/> Explosive/Flammable | <input type="checkbox"/> Oxygen Deficient Atm. |
| <input checked="" type="checkbox"/> Heat Stress | <input checked="" type="checkbox"/> Cold Stress | <input type="checkbox"/> Other |
| Comments: No personnel are permitted to enter permit confined spaces | | |

3.3.2 Physical Characteristics

| Check all that apply | | |
|--|---|---------------------------------|
| <input checked="" type="checkbox"/> Liquid | <input checked="" type="checkbox"/> Solid | <input type="checkbox"/> Sludge |
| <input checked="" type="checkbox"/> Vapors | <input type="checkbox"/> Unknown | <input type="checkbox"/> Other |

3.3.3 Hazardous Materials

| Check all that apply | | | | | |
|---|--|--|---|--|-----------------------------------|
| Chemicals | Solids | Sludges | Solvents | Oils | Other |
| <input type="checkbox"/> Acids | <input type="checkbox"/> Ash | <input type="checkbox"/> Paints | <input type="checkbox"/> Halogens | <input type="checkbox"/> Transformer | <input type="checkbox"/> Lab |
| <input type="checkbox"/> Caustics | <input type="checkbox"/> Asbestos | <input type="checkbox"/> Metals | <input checked="" type="checkbox"/> Petroleum | <input type="checkbox"/> Other DF | <input type="checkbox"/> Pharm. |
| <input checked="" type="checkbox"/> Pesticides | <input type="checkbox"/> Tailings | <input type="checkbox"/> POTW | <input type="checkbox"/> Other | <input checked="" type="checkbox"/> Motor or Hydraulic Oil | <input type="checkbox"/> Hospital |
| <input checked="" type="checkbox"/> Petroleum | <input checked="" type="checkbox"/> Other: Fill Material | <input type="checkbox"/> Other – Tars & Other NAPL | | <input checked="" type="checkbox"/> Gasoline | <input type="checkbox"/> Rad. |
| <input type="checkbox"/> Inks | | | | <input checked="" type="checkbox"/> Fuel Oil | <input type="checkbox"/> MGP |
| <input checked="" type="checkbox"/> PCBs | | | | | <input type="checkbox"/> Mold |
| <input checked="" type="checkbox"/> Metals | | | | | <input type="checkbox"/> Cyanide |
| <input checked="" type="checkbox"/> Other: VOCs & SVOCs | | | | | |

3.3.4 Known and Suspect Chemicals of Concern

| Chemicals | REL/PEL/STEL (ppm) | Health Hazards |
|---|--|--|
| Arsenic | REL = 0.02 mg/m ³ PEL = 0.01 mg/m ³ | Ulceration of nasal septum, dermatitis, gastrointestinal disturbances, peripheral neuropathy, respiratory irritation, hyperpigmentation of skin, [potential occupational carcinogen]. |
| Benzene | REL = 0.1 ppm PEL = 1 ppm STEL = 5 ppm | Irritation eyes, skin, nose, respiratory system; dizziness; headache, nausea, staggered gait; anorexia, lassitude, dermatitis; bone marrow depression, potential occupational carcinogen. |
| DDT, DDE, DDT (pesticides) | REL = 0.5 mg/m ³ PEL = 1 mg/m ³ [skin] | Irritation eyes, skin; paresthesia tongue, lips, face; tremor; anxiety, dizziness, confusion, malaise (vague feeling of discomfort), headache, lassitude (weakness, exhaustion); convulsions; paresis hands; vomiting; potential carcinogen. |
| Ethylbenzene | REL = 100 ppm PEL = 100 ppm | Irritation eyes, skin, mucous membrane; headache; dermatitis; narcosis, coma |
| Fuel Oil | REL = 350 mg/m ³ PEL = 400 ppm | Nausea, irritation – eyes, hypertension, headache, light-headedness, loss of appetite, poor coordination; long-term exposure – kidney damage, blood clotting problems; potential carcinogen. |
| Lead | REL = 0.05 mg/m ³ PEL = 0.05 mg/m ³ | Lassitude (weakness, exhaustion), insomnia; facial pallor; anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; paralysis wrist, ankles; encephalopathy; kidney disease; irritation eyes; hypertension. |
| Mercury | REL = 0.1 mg/m ³ PEL = 0.05 mg/m ³ | Irritation eyes, skin; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor, insomnia, irritability, indecision, headache, lassitude (weakness, exhaustion); stomatitis, salivation; gastrointestinal disturbance, anorexia, weight loss; proteinuria. |
| Polychlorinated Biphenyls (PCBs) | PCB-1242: REL = 1 mg/m ³ PEL = 0.001 mg/m ³ PCB-1254: REL = 0.5 mg/m ³ PEL = 0.001 mg/m ³ | Rash; anemia, liver, stomach, thyroid damage; reduced ability to fight disease; impaired reproduction. |
| Polycyclic Aromatic Hydrocarbons (PAHs) | PEL = 5 mg/m ³ | Harmful effects to skin, bodily fluids, and ability to fight disease, reproductive problems; potential carcinogen. |
| Tetrachloroethene (PCE) | PEL = 100 ppm STEL = 200 ppm | Irritation eyes, skin, nose, throat, respiratory system; nausea; flush face, neck; dizziness, poor coordination; headache, drowsiness; skin erythema (skin redness); liver damage; potential occupational carcinogen |
| Trichloroethene | REL = 25 ppm | Irritation eyes, skin; headache, visual disturbance, |

| Chemicals | REL/PEL/STEL (ppm) | Health Hazards |
|--|--|---|
| (TCE) | REL = 100 ppm | lassitude (weakness, exhaustion), dizziness, tremor, drowsiness, nausea, vomiting; dermatitis; cardiac arrhythmias, paresthesia; liver injury; [potential occupational carcinogen]. |
| Toluene | REL = 100 ppm PEL = 200 ppm STEL = 300 ppm | Irritation eyes, nose; lassitude, confusion, euphoria, dizziness, headache; dilated pupils, lacrimation (discharge of tears); anxiety, muscle fatigue, insomnia; paresthesia (skin tingling or numbness); dermatitis; liver, kidney damage. |
| Xylenes | REL = 100 ppm PEL = 100 ppm | Irritation eyes, skin, nose, throat; dizziness, excitement, drowsiness, poor coordination, staggering gait; corneal vacuolization; anorexia, nausea, vomiting, abdominal pain; dermatitis. |
| Particulate | REL = 15 mg/m ³ (total) PEL = 5 mg/m ³ (respirable) | Irritation eyes, skin, throat, upper respiratory system. |
| Comments: REL = National Institute for OSHA (NIOSH) Recommended Exposure Limit PEL = OSHA Permissible Exposure Limit STEL = OSHA Short Term Exposure Limit ppm = parts per million mg/m ³ = milligrams per cubic meter | | |

4.0 HEALTH AND SAFETY OFFICER

The contractor or engineer will designate one of its personnel as the Site Safety Officer (SSO). The SSO will be a competent person responsible for the implementation of this plan. The SSO will have completed a 40-hour training course (up-dated by an annual refresher) that meets OSHA requirements of 29 CFR Part 1910, Occupational Safety and Health Standards. The SSO has stop-work authorization, which he/she will execute on his/her determination of an imminent safety hazard, emergency situation, or other potentially dangerous situation. If the SSO must be absent from the site, he/she will designate a suitably qualified replacement that is familiar with the CHASP. If work is stopped for any reason, the OER would be notified immediately.

5.0 TRAINING

All those who enter the work area while intrusive activities are being performed must recognize and understand the potential hazards to health and safety. All construction personnel upon entering the Site must attend a brief training meeting, its purpose being to:

- Make workers aware of the potential hazards they may encounter;
- Instruct workers on how to identify potential hazards,
- Provide the knowledge and skills necessary for workers to perform the work with minimal risk to health and safety;
- Make workers aware of the purpose and limitations of safety equipment; and
- Ensure that they can safely avoid or escape from emergencies.

Each member of the construction crew will be instructed in these objectives before he/she goes onto the Site. Construction personnel will be responsible for identifying potential hazards in the work zone. The SSO or other suitably trained individual will be responsible for conducting the training program. Others who enter the Site must be accompanied by a suitably-trained construction worker.

6.0 GENERAL WORK PRACTICES

To protect the health and safety of the field personnel, all field personnel will adhere to the guidelines listed below during activities involving subsurface disturbance in contaminated areas.

- Eating, drinking, chewing gum or tobacco, and smoking are prohibited, except in designated areas on the Site. These areas will be designated by the SSO.
- Workers must wash their hands and face thoroughly on leaving the work area and before eating, drinking, or any other such activity. The workers should shower as soon as possible after leaving the Site.
- Contact with contaminated or suspected surfaces should be avoided.
- The buddy system should always be used; each buddy should watch for signs of fatigue, exposure, and heat stress.

7.0 PERSONAL PROTECTIVE EQUIPMENT & AIR MONITORING

7.1 Personal Protective Equipment

The personal protection equipment required for various kinds of Site investigation tasks are based on 29 CFR 1910.120, Hazardous Waste Operations and Emergency Response, Appendix B, “General Description and Discussion of the Levels of Protection and Protective Gear.”

AKRF field personnel and other Site personnel will wear, at a minimum, Level D personal protective equipment. The protection will be based on the air monitoring described in Section 7.2.

| LEVEL OF PROTECTION & PPE | Excavation and Other Earth Moving Activities |
|--|--|
| Level D (x) Steel Toe Shoes (x) Hard Hat (within 25 ft of excavator) (x) Work Gloves (x) Safety Glasses () Face Shield (x) Ear Plugs (within 25 ft of excavator or jackhammer) () Latex Gloves | Yes |
| Level D – Modified <i>(in addition to Level D)</i> (x) Tyvek Coveralls (x) Nitrile Gloves () Overboots () Saranex Coveralls | As necessary |
| Level C (in addition to Level D – Modified) (x) Half-Face Respirator () Full Face Respirator () Full-Face PAPR () Particulate Cartridge () Organic Cartridge (x) Dual Organic/Particulate Cartridge | If PID > 10 ppm or particulate > 5 mg/m ³ (in breathing zone) |
| Comments: Cartridges to be changed out at least once per shift unless warranted beforehand (e.g., more difficult to breath or any odors detected). | |

7.2 Work Zone Air Monitoring and Community Air Monitoring

As outlined in the RAWP, real time air monitoring will be performed with a photoionization detector (PID) and with a particulate air monitor during sampling and excavation work in areas where petroleum or other contamination is encountered. Community air monitoring will be conducted during all intrusive site activities. The air monitoring protocols, action levels and required responses are provided in the September 2015 RAWP prepared for the Site.

Real time air monitoring will be performed with a photoionization detector (PID) and with a particulate air monitor during sampling and excavation work required for Site development. Measurements would be taken prior to commencement of work and continuously during the work as outlined in the following table. Measurements will be made as close to the workers as practicable and at the breathing height of the workers. The SSO will set up the equipment and confirm that it is working properly. His/her designee may oversee the air measurements during the day. The initial measurement for the day will be performed before the start of work and will establish the background level for that day. The final measurement for the day will be performed after the end of work. The action levels and required responses are listed in the following table.

Action Levels and Required Safety Response Actions

| Instrument | Task to be Monitored | Action Level | Response Action |
|---|-----------------------------|--|---|
| PID (Mini Rae 2000 or equivalent) | Ground/soil disturbance | Less than 10 ppm in breathing zone. | Level D or D-Modified |
| | | Between 10 and 50 ppm | Level C |
| | | More than 50 ppm | Stop work. Resume work when readings are less than 50 ppm. |
| Particulate monitor (Dustrak, MIE 1000 Personal DataRam or equivalent) | Ground/soil disturbance | Less than 5 mg/m ³ | Level D |
| | | Between 5 mg/m ³ and 125 mg/m ³ | Level C. Apply dust suppression measures. If < 2.5 mg/m ³ , resume work using Level D. Otherwise, use Level C. |
| | | Above 125 mg/m ³ | Stop work. Apply additional dust suppression measures. Resume work when less than 125 mg/m ³ . |

Field personnel will be trained in the proper operation of all field instruments at the start of the field program. Instruction manuals for the equipment will be on file at the Site for referencing proper operation, maintenance, and calibration procedures.

The equipment will be calibrated according to manufacturer specifications at the start of each day of fieldwork. If an instrument fails calibration, the project manager will be contacted immediately to obtain a replacement instrument and arrange for repairs. A calibration log will be maintained to record the date of each calibration, any failure to calibrate and corrective actions taken. The PID will be calibrated each day using 100 parts per million (ppm) isobutylene standard gas.

8.0 DECONTAMINATION PROCEDURES

8.1 Personnel Decontamination

Personnel decontamination (decon), if deemed necessary by the SSO, will take place in a designated decontamination area. This area will be delineated during each stage of work. Personnel decontamination will consist of the following steps:

- Soap and potable water wash and potable water rinse of gloves;
- Coverall removal (if applicable);
- Glove removal;
- Disposable clothing removal; and
- Field wash hands and face.

8.2 Sampling Equipment Decontamination

Any non-disposable sampling equipment for confirmatory sampling or other equipment that is in contact with contaminated materials will be decontaminated in accordance with the following procedure:

- Double wash with solution of Simple Green[®] and clean tap water;
- Double rinse with clean tap water;
- Rinse with clean distilled water; and
- Allow equipment to air dry.

8.3 Heavy Equipment Decontamination

If heavy equipment comes in contact with contaminated materials, it will be decontaminated prior to being relocated to a clean area or leaving the Site. A designated decontamination pad will be constructed, where soil, dust, or oil will be washed off the exterior, undercarriage, and wheels or tracks of the equipment.

9.0 EMERGENCY RESPONSE

9.1 Emergency Procedures

In the event that an emergency develops on-site, the procedures delineated herein are to be immediately followed. Emergency conditions are considered to exist if:

- Any member of the field crew is involved in an accident or experiences any adverse effects or symptoms of exposure while on-site;
- A condition is discovered that suggests the existence of a situation more hazardous than anticipated; and
- A spill of oil or other hazardous materials.

General emergency procedures, and specific procedures for personal injury, chemical exposure, and radiation exposure, are described below. In the event of an accident or emergency, an Incident Report form should be filled out and placed in the project file. An example Weekly Safety Report Form and Incident Report Form are provided as Appendix B. Information on emergency hand signals are provided as Appendix C.

9.1.1 Chemical Exposure

If a member of the field crew demonstrates symptoms of chemical exposure the procedures outlined below should be followed:

- Another team member (buddy) should remove the individual from the immediate area of contamination. The buddy should communicate to the SSO (via voice and hand signals) of the chemical exposure. The SSO should contact the appropriate emergency response agency.
- Precautions should be taken to avoid exposure of other individuals to the chemical.
- If the chemical is on the individual's clothing, the chemical should be neutralized or removed if it is safe to do so.
- If the chemical has contacted the skin, the skin should be washed with copious amounts of water.
- In case of eye contact, an emergency eye wash should be used. Eyes should be washed for at least 15 minutes.
- All chemical exposure incidents must be reported in writing to the SSO. The SSO is responsible for completing the Incident Report Form.

9.1.2 Personal Injury

In case of personal injury at the site, the following procedures should be followed:

- Another team member (buddy) should signal the SSO that an injury has occurred.
- A field team member trained in first aid can administer treatment to an injured worker.
- If deemed necessary, the victim should then be transported to the nearest hospital or medical center. If necessary, an ambulance should be called to transport the victim.
- The SSO is responsible for making certain that an Incident Report Form is completed. This form is to be submitted to the SSO. Follow-up action should be taken to correct the situation that caused the accident.
- Any incident (near miss, property damage, first aid, medical treatment, etc.) must be reported.

A first-aid kit and eye-wash kit will be kept on-site during the field activities.

9.1.3 Evacuation Procedures

- The SSO will initiate evacuation procedures by signaling to leave the Site or containment structure.
- All personnel in the work area should evacuate the area and meet in the common designated area.
- All personnel suspected to be in or near the contract work area should be accounted for and the whereabouts or missing persons determined immediately.
- The SSO will then give further instruction.

9.1.4 Procedures Implemented in the Event of a Major Fire, Explosion, or Emergency

- Notify the paramedics and/or fire department, as necessary;

- Signal the evacuation procedure previously outlined and implement the entire procedure;
- Isolate the area;
- Stay upwind of any fire;
- Keep the area surrounding the problem source clear after the incident occurs; and
- Complete accident report for and distribute to appropriate personnel.

9.1.5 Spill Response

All personnel must take every precaution to minimize the potential for spills during Site operations. Any spill will be reported immediately to the SSO. The SSO will then determine and report any required spills to the NYCDEP and/or NYSDEC Hotlines.

Spill control apparatus (sorbent materials) will be located on-site. All materials used for the cleanup of spills will be containerized and labeled separately from other wastes. The SSO, in consultation with AKRF’s project manager, will determine if additional spill response measures are required.

9.2 Hospital Directions

The nearest hospital, as shown on Figure 1, is Bronx-Lebanon Hospital Center. The address of the hospital is 1276 Fulton Avenue. Directions to the hospital are provided below.

Hospital Information and Directions

| | |
|--------------------------|--|
| Hospital Name: | Bronx-Lebanon Hospital Center |
| Phone Number: | 718-590-1800 |
| Address/Location: | 1276 Fulton Avenue, Bronx, NY 10457 |
| Directions: | 1. Head north on Third Avenue toward East 166 th Street 2. Take first right onto East 166 th Street 3. East 166 th Street turns left and becomes Fulton Avenue 2. Destination will be on the right |

9.3 CHASP Contact Information

- AKRF Project Director –Stephen Malinowski (631) 574-3724 (office)
- AKRF Project Manager – Amy Jordan (646) 388-9864 (office)
- Site Safety Officer (SSO) – Mark Jepsen (646) 388-9567 (cell)
- Alternate Site Safety Officer (SSO) – Holly Hawkins (718) 598-0827 (cell)
- Client Representative– Justin Stein (917) 406-2660 (cell)
- OER Project Manager – Katherine Glass (212) 676-4925 (office)
- Ambulance, Fire and Police Departments..... 911
- Local Poison Control (212) 764-7667
pm/weekend (212) 340-4494

NYCDEC Spill Response Team (800) 457-7362
NYCDEP Hotline(718) DEP-HELP

10.0 APPROVAL & ACKNOWLEDGMENTS OF CHASP

APPROVAL

Signed: _____ Date: _____

Project Manager

Signed: _____ Date: _____

Health and Safety Officer

Below is an affidavit that must be signed by all workers who enter the site. A copy of the CHASP must be on-site at all times and will be kept by the SSO.

AFFIDAVIT

I, _____ (name), of _____ (company name), have read the Construction Health and Safety Plan for the 3363 and 3365 Third Avenue site in the Bronx, New York. I agree to conduct all on-site work in accordance with the requirements set forth in this HASP and understand that failure to comply with this CHASP could lead to my removal from the site.

Signed: _____ Company: _____ Date: _____

FIGURES

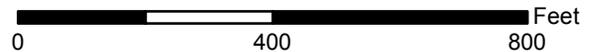
© 2013 AKRF, Inc. Environmental Consultants W:\Projects\12105 - BRONX PRO 3363 THIRD AVENUE\Technical\GIS and Graphics\Hazmat\12105 Route to Hospital.mxd



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Legend

-  Route to Hospital
-  Site Location
-  Hospital Location



1276 Fulton Avenue
Bronx, NY 10457
(718) 590-1800

3363 and 3365 Third Avenue
Bronx, New York



HOSPITAL LOCATION MAP

Environmental Consultants
440 Park Avenue South, New York, N.Y. 10016

| |
|-----------------------------|
| DATE 9/3/2015 |
| PROJECT No. 12105 |
| FIGURE 1 |

APPENDIX A
POTENTIAL HEALTH EFFECTS FROM ON-SITE CONTAMINANTS

This fact sheet answers the most frequently asked health questions (FAQs) about arsenic. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to higher than average levels of arsenic occurs mostly in the workplace, near hazardous waste sites, or in areas with high natural levels. At high levels, inorganic arsenic can cause death. Exposure to lower levels for a long time can cause a discoloration of the skin and the appearance of small corns or warts. Arsenic has been found at 1,014 of the 1,598 National Priority List sites identified by the Environmental Protection Agency (EPA).

What is arsenic?

Arsenic is a naturally occurring element widely distributed in the earth's crust. In the environment, arsenic is combined with oxygen, chlorine, and sulfur to form inorganic arsenic compounds. Arsenic in animals and plants combines with carbon and hydrogen to form organic arsenic compounds.

Inorganic arsenic compounds are mainly used to preserve wood. Organic arsenic compounds are used as pesticides, primarily on cotton plants.

What happens to arsenic when it enters the environment?

- Arsenic cannot be destroyed in the environment. It can only change its form.
- Arsenic in air will settle to the ground or is washed out of the air by rain.
- Many arsenic compounds can dissolve in water.
- Fish and shellfish can accumulate arsenic, but the arsenic in fish is mostly in a form that is not harmful.

How might I be exposed to arsenic?

- Eating food, drinking water, or breathing air containing arsenic.
- Breathing contaminated workplace air.
- Breathing sawdust or burning smoke from wood treated with arsenic.
- Living near uncontrolled hazardous waste sites containing arsenic.
- Living in areas with unusually high natural levels of arsenic in rock.

How can arsenic affect my health?

Breathing high levels of inorganic arsenic can give you a sore throat or irritated lungs. Ingesting high levels of inorganic arsenic can result in death. Lower levels of arsenic can cause nausea and vomiting, decreased production of red and white blood cells, abnormal heart rhythm, damage to blood vessels, and a sensation of "pins and needles" in hands and feet.

Ingesting or breathing low levels of inorganic arsenic for a long time can cause a darkening of the skin and the

ToxFAQs™ Internet address is <http://www.atsdr.cdc.gov/toxfaq.html>

appearance of small “corns” or “warts” on the palms, soles, and torso.

Skin contact with inorganic arsenic may cause redness and swelling.

Organic arsenic compounds are less toxic than inorganic arsenic compounds. Exposure to high levels of some organic arsenic compounds may cause similar effects as inorganic arsenic.

How likely is arsenic to cause cancer?

Several studies have shown that inorganic arsenic can increase the risk of lung cancer, skin cancer, bladder cancer, liver cancer, kidney cancer, and prostate cancer. The World Health Organization (WHO), the Department of Health and Human Services (DHHS), and the EPA have determined that inorganic arsenic is a human carcinogen.

How can arsenic affect children?

We do not know if exposure to arsenic will result in birth defects or other developmental effects in people. Birth defects have been observed in animals exposed to inorganic arsenic.

It is likely that health effects seen in children exposed to high amounts of arsenic will be similar to the effects seen in adults.

How can families reduce the risk of exposure to arsenic?

- If you use arsenic-treated wood in home projects, you should wear dust masks, gloves, and protective clothing to decrease exposure to sawdust.
- If you live in an area with high levels of arsenic in water or soil, you should use cleaner sources of water and limit contact with soil.

Is there a medical test to show whether I've been exposed to arsenic?

There are tests to measure the level of arsenic in blood, urine, hair, or fingernails. The urine test is the most reliable test for arsenic exposure within the last few days. Tests on hair and fingernails can measure exposure to high levels of arsenic over the past 6-12 months. These tests can determine if you have been exposed to above-average levels of arsenic. They cannot predict how the arsenic levels in your body will affect your health.

Has the federal government made recommendations to protect human health?

EPA has set limits on the amount of arsenic that industrial sources can release to the environment and has restricted or canceled many uses of arsenic in pesticides. EPA has set a limit of 0.01 parts per million (ppm) for arsenic in drinking water.

The Occupational Safety and Health Administration has set limits of 10 µg arsenic per cubic meter of workplace air (10 µg/m³) for 8 hour shifts and 40 hour work weeks.

Source of Information

Agency for Toxic Substances and Disease Registry (ATSDR). 2000. Toxicological Profile for Arsenic. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs™ Internet address is <http://www.atsdr.cdc.gov/toxfaq.html>. ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.



This fact sheet answers the most frequently asked health questions (FAQs) about benzene. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. This information is important because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Benzene is a widely used chemical formed from both natural processes and human activities. Breathing benzene can cause drowsiness, dizziness, and unconsciousness; long-term benzene exposure causes effects on the bone marrow and can cause anemia and leukemia. Benzene has been found in at least 813 of the 1,430 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is benzene?

(Pronounced bĕn'zĕn')

Benzene is a colorless liquid with a sweet odor. It evaporates into the air very quickly and dissolves slightly in water. It is highly flammable and is formed from both natural processes and human activities.

Benzene is widely used in the United States; it ranks in the top 20 chemicals for production volume. Some industries use benzene to make other chemicals which are used to make plastics, resins, and nylon and synthetic fibers. Benzene is also used to make some types of rubbers, lubricants, dyes, detergents, drugs, and pesticides. Natural sources of benzene include volcanoes and forest fires. Benzene is also a natural part of crude oil, gasoline, and cigarette smoke.

What happens to benzene when it enters the environment?

- Industrial processes are the main source of benzene in the environment.
- Benzene can pass into the air from water and soil.
- It reacts with other chemicals in the air and breaks down within a few days.
- Benzene in the air can attach to rain or snow and be carried back down to the ground.

- It breaks down more slowly in water and soil, and can pass through the soil into underground water.
- Benzene does not build up in plants or animals.

How might I be exposed to benzene?

- Outdoor air contains low levels of benzene from tobacco smoke, automobile service stations, exhaust from motor vehicles, and industrial emissions.
- Indoor air generally contains higher levels of benzene from products that contain it such as glues, paints, furniture wax, and detergents.
- Air around hazardous waste sites or gas stations will contain higher levels of benzene.
- Leakage from underground storage tanks or from hazardous waste sites containing benzene can result in benzene contamination of well water.
- People working in industries that make or use benzene may be exposed to the highest levels of it.
- A major source of benzene exposures is tobacco smoke.

How can benzene affect my health?

Breathing very high levels of benzene can result in death, while high levels can cause drowsiness, dizziness, rapid heart rate, headaches, tremors, confusion, and unconsciousness. Eating or drinking foods containing high levels of benzene can cause vomiting, irritation of the stomach, dizziness, sleepiness, convulsions, rapid heart rate, and death.

ToxFAQs Internet address via WWW is <http://www.atsdr.cdc.gov/toxfaq.html>

The major effect of benzene from long-term (365 days or longer) exposure is on the blood. Benzene causes harmful effects on the bone marrow and can cause a decrease in red blood cells leading to anemia. It can also cause excessive bleeding and can affect the immune system, increasing the chance for infection.

Some women who breathed high levels of benzene for many months had irregular menstrual periods and a decrease in the size of their ovaries. It is not known whether benzene exposure affects the developing fetus in pregnant women or fertility in men.

Animal studies have shown low birth weights, delayed bone formation, and bone marrow damage when pregnant animals breathed benzene.

How likely is benzene to cause cancer?

The Department of Health and Human Services (DHHS) has determined that benzene is a known human carcinogen. Long-term exposure to high levels of benzene in the air can cause leukemia, cancer of the blood-forming organs.

Is there a medical test to show whether I've been exposed to benzene?

Several tests can show if you have been exposed to benzene. There is test for measuring benzene in the breath; this test must be done shortly after exposure. Benzene can also be measured in the blood, however, since benzene disappears rapidly from the blood, measurements are accurate only for recent exposures.

In the body, benzene is converted to products called metabolites. Certain metabolites can be measured in the urine. However, this test must be done shortly after exposure and is not a reliable indicator of how much benzene you have been exposed to, since the metabolites may be present in urine from other sources.

Has the federal government made recommendations to protect human health?

The EPA has set the maximum permissible level of benzene in drinking water at 0.005 milligrams per liter (0.005 mg/L). The EPA requires that spills or accidental releases into the environment of 10 pounds or more of benzene be reported to the EPA.

The Occupational Safety and Health Administration (OSHA) has set a permissible exposure limit of 1 part of benzene per million parts of air (1 ppm) in the workplace during an 8-hour workday, 40-hour workweek.

Glossary

Anemia: A decreased ability of the blood to transport oxygen.

Carcinogen: A substance with the ability to cause cancer.

CAS: Chemical Abstracts Service.

Chromosomes: Parts of the cells responsible for the development of hereditary characteristics.

Metabolites: Breakdown products of chemicals.

Milligram (mg): One thousandth of a gram.

Pesticide: A substance that kills pests.

References

This ToxFAQs information is taken from the 1997 Toxicological Profile for Benzene (update) produced by the Agency for Toxic Substances and Disease Registry, Public Health Service, U.S. Department of Health and Human Services, Public Health Service in Atlanta, GA.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop E-29, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 404-498-0093. ToxFAQs Internet address via WWW is <http://www.atsdr.cdc.gov/toxfaq.html> ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.



This fact sheet answers the most frequently asked health questions (FAQs) about DDT, DDE, and DDD. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It is important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to DDT, DDE, and DDD occurs mostly from eating foods containing small amounts of these compounds, particularly meat, fish and poultry. High levels of DDT can affect the nervous system causing excitability, tremors and seizures. In women, DDE can cause a reduction in the duration of lactation and an increased chance of having a premature baby. DDT, DDE, and DDD have been found in at least 441 of the 1,613 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What are DDT, DDE, and DDD?

DDT (dichlorodiphenyltrichloroethane) is a pesticide once widely used to control insects in agriculture and insects that carry diseases such as malaria. DDT is a white, crystalline solid with no odor or taste. Its use in the U.S. was banned in 1972 because of damage to wildlife, but is still used in some countries.

DDE (dichlorodiphenyldichloroethylene) and DDD (dichlorodiphenyldichloroethane) are chemicals similar to DDT that contaminate commercial DDT preparations. DDE has no commercial use. DDD was also used to kill pests, but its use has also been banned. One form of DDD has been used medically to treat cancer of the adrenal gland.

What happens to DDT, DDE, and DDD when they enter the environment?

- DDT entered the environment when it was used as a pesticide; it still enters the environment due to current use in other countries.
- DDE enters the environment as contaminant or breakdown product of DDT; DDD also enters the environment as a breakdown product of DDT.
- DDT, DDE, and DDD in air are rapidly broken down by sunlight. Half of what's in air breaks down within 2 days.
- They stick strongly to soil; most DDT in soil is broken down slowly to DDE and DDD by microorganisms; half the DDT in soil will break down in 2-15 years, depending on the type of soil.

- Only a small amount will go through the soil into groundwater; they do not dissolve easily in water.
- DDT, and especially DDE, build up in plants and in fatty tissues of fish, birds, and other animals.

How might I be exposed to DDT, DDE, and DDD?

- Eating contaminated foods, such as root and leafy vegetables, fatty meat, fish, and poultry, but levels are very low.
- Eating contaminated imported foods from countries that still allow the use of DDT to control pests.
- Breathing contaminated air or drinking contaminated water near waste sites and landfills that may contain higher levels of these chemicals.
- Infants fed on breast milk from mothers who have been exposed.
- Breathing or swallowing soil particles near waste sites or landfills that contain these chemicals.

How can DDT, DDE, and DDD affect my health?

DDT affects the nervous system. People who accidentally swallowed large amounts of DDT became excitable and had tremors and seizures. These effects went away after the exposure stopped. No effects were seen in people who took small daily doses of DDT by capsule for 18 months. A study in humans showed that women who had high amounts of a form of DDE in their breast milk were unable to

ToxFAQs™ Internet address is <http://www.atsdr.cdc.gov/toxfaq.html>

breast feed their babies for as long as women who had little DDE in the breast milk. Another study in humans showed that women who had high amounts of DDE in breast milk had an increased chance of having premature babies. In animals, short-term exposure to large amounts of DDT in food affected the nervous system, while long-term exposure to smaller amounts affected the liver. Also in animals, short-term oral exposure to small amounts of DDT or its breakdown products may also have harmful effects on reproduction.

How likely are DDT, DDE, and DDD to cause cancer?

Studies in DDT-exposed workers did not show increases in cancer. Studies in animals given DDT with the food have shown that DDT can cause liver cancer. The Department of Health and Human Services (DHHS) determined that DDT may reasonably be anticipated to be a human carcinogen. The International Agency for Research on Cancer (IARC) determined that DDT may possibly cause cancer in humans. The EPA determined that DDT, DDE, and DDD are probable human carcinogens.

How can DDT, DDE, and DDD affect children?

There are no studies on the health effects of children exposed to DDT, DDE, or DDD. We can assume that children exposed to large amounts of DDT will have health effects similar to the effects seen in adults. However, we do not know whether children differ from adults in their susceptibility to these substances.

There is no evidence that DDT, DDE, or DDD cause birth defects in people. A study showed that teenage boys whose mothers had higher DDE amounts in the blood when they were pregnant were taller than those whose mothers had lower DDE levels. However, a different study found the opposite in preteen girls. The reason for the discrepancy between these studies is unknown.

Studies in rats have shown that DDT and DDE can mimic the action of natural hormones and in this way affect the development of the reproductive and nervous systems. Puberty was delayed in male rats given high amounts of DDE as juveniles. This could possibly happen in humans.

A study in mice showed that exposure to DDT during the first weeks of life may cause neurobehavioral problems later in life.

How can families reduce the risk of exposure to DDT, DDE, and DDE?

- Most families will be exposed to DDT by eating food or drinking liquids contaminated with small amounts of DDT.
- Cooking will reduce the amount of DDT in fish.
- Washing fruit and vegetables will remove most DDT from their surface.
- Follow health advisories that tell you about consumption of fish and wildlife caught in contaminated areas.

Is there a medical test to show whether I've been exposed to DDT, DDE, and DDD?

Laboratory tests can detect DDT, DDE, and DDD in fat, blood, urine, semen, and breast milk. These tests may show low, moderate, or excessive exposure to these compounds, but cannot tell the exact amount you were exposed to, or whether you will experience adverse effects. These tests are not routinely available at the doctor's office because they require special equipment.

Has the federal government made recommendations to protect human health?

The Occupational Safety and Health Administration (OSHA) sets a limit of 1 milligram of DDT per cubic meter of air (1 mg/m³) in the workplace for an 8-hour shift, 40-hour workweek.

The Food and Drug Administration (FDA) has set limits for DDT, DDE, and DDD in foodstuff at or above which the agency will take legal action to remove the products from the market.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2002. Toxicological Profile for DDT/DDE/DDD (Update). Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs Internet address via WWW is <http://www.atsdr.cdc.gov/toxfaq.html>. ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.



This fact sheet answers the most frequently asked health questions (FAQs) about ethylbenzene. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Ethylbenzene is a colorless liquid found in a number of products including gasoline and paints. Breathing very high levels can cause dizziness and throat and eye irritation. Ethylbenzene has been found in at least 731 of the 1,467 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is ethylbenzene?

(Pronounced ěth' əl bĕn' zĕn')

Ethylbenzene is a colorless, flammable liquid that smells like gasoline. It is found in natural products such as coal tar and petroleum and is also found in manufactured products such as inks, insecticides, and paints.

Ethylbenzene is used primarily to make another chemical, styrene. Other uses include as a solvent, in fuels, and to make other chemicals.

What happens to ethylbenzene when it enters the environment?

- Ethylbenzene moves easily into the air from water and soil.
- It takes about 3 days for ethylbenzene to be broken down in air into other chemicals.
- Ethylbenzene may be released to water from industrial discharges or leaking underground storage tanks.
- In surface water, ethylbenzene breaks down by reacting with other chemicals found naturally in water.
- In soil, it is broken down by soil bacteria.

How might I be exposed to ethylbenzene?

- Breathing air containing ethylbenzene, particularly in areas near factories or highways.
- Drinking contaminated tap water.
- Working in an industry where ethylbenzene is used or made.
- Using products containing it, such as gasoline, carpet glues, varnishes, and paints.

How can ethylbenzene affect my health?

Limited information is available on the effects of ethylbenzene on people's health. The available information shows dizziness, throat and eye irritation, tightening of the chest, and a burning sensation in the eyes of people exposed to high levels of ethylbenzene in air.

Animals studies have shown effects on the nervous system, liver, kidneys, and eyes from breathing ethylbenzene in air.

How likely is ethylbenzene to cause cancer?

The EPA has determined that ethylbenzene is not classified as to human carcinogenicity.

ToxFAQs Internet address via WWW is <http://www.atsdr.cdc.gov/toxfaq.html>

No studies in people have shown that ethylbenzene exposure can result in cancer. Two available animal studies suggest that ethylbenzene may cause tumors.

How can ethylbenzene affect children?

Children may be exposed to ethylbenzene through inhalation of consumer products, including gasoline, paints, inks, pesticides, and carpet glue. We do not know whether children are more sensitive to the effects of ethylbenzene than adults.

It is not known whether ethylbenzene can affect the development of the human fetus. Animal studies have shown that when pregnant animals were exposed to ethylbenzene in air, their babies had an increased number of birth defects.

How can families reduce the risk of exposure to ethylbenzene?

Exposure to ethylbenzene vapors from household products and newly installed carpeting can be minimized by using adequate ventilation.

Household chemicals should be stored out of reach of children to prevent accidental poisoning. Always store household chemicals in their original containers; never store them in containers children would find attractive to eat or drink from, such as old soda bottles. Gasoline should be stored in a gasoline can with a locked cap.

Sometimes older children sniff household chemicals, including ethylbenzene, in an attempt to get high. Talk with your children about the dangers of sniffing chemicals.

Is there a medical test to show whether I've been exposed to ethylbenzene?

Ethylbenzene is found in the blood, urine, breath, and

some body tissues of exposed people. The most common way to test for ethylbenzene is in the urine. This test measures substances formed by the breakdown of ethylbenzene. This test needs to be done within a few hours after exposure occurs, because the substances leave the body very quickly.

These tests can show you were exposed to ethylbenzene, but cannot predict the kind of health effects that might occur.

Has the federal government made recommendations to protect human health?

The EPA has set a maximum contaminant level of 0.7 milligrams of ethylbenzene per liter of drinking water (0.7 mg/L).

The EPA requires that spills or accidental releases into the environment of 1,000 pounds or more of ethylbenzene be reported to the EPA.

The Occupational Safety and Health Administration (OSHA) has set an occupational exposure limit of 100 parts of ethylbenzene per million parts of air (100 ppm) for an 8-hour workday, 40-hour workweek.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 1999. Toxicological profile for ethylbenzene. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs Internet address via WWW is <http://www.atsdr.cdc.gov/toxfaq.html> ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.



This fact sheet answers the most frequently asked health questions (FAQs) about fuel oils. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

SUMMARY: Fuel oils are liquid mixtures produced from petroleum, and their use mostly involves burning them as fuels. Drinking or breathing fuel oils may cause nausea or nervous system effects. However, exposure under normal use conditions is not likely to be harmful. Fuel oils have been found in at least 26 of the 1,430 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What are fuel oils?

(Pronounced fyoo'el oilz)

Fuel oils are a variety of yellowish to light brown liquid mixtures that come from crude petroleum. Some chemicals found in fuel oils may evaporate easily, while others may more easily dissolve in water.

Fuel oils are produced by different petroleum refining processes, depending on their intended uses. Fuel oils may be used as fuel for engines, lamps, heaters, furnaces, and stoves, or as solvents.

Some commonly found fuel oils include kerosene, diesel fuel, jet fuel, range oil, and home heating oil. These fuel oils differ from one another by their hydrocarbon compositions, boiling point ranges, chemical additives, and uses.

What happens to fuel oils when they enter the environment?

- Some chemicals found in fuel oils may evaporate into the air from open containers or contaminated soil or water.
- Some chemicals found in fuel oils may dissolve in water after spills to surface waters or leaks from underground storage tanks.

- Some chemicals found in fuel oils may stick to particles in water, which will eventually cause them to settle to the bottom sediment.
- Some of the chemicals found in fuel oils may be broken down slowly in air, water, and soil by sunlight or small organisms.
- Some of the chemicals found in fuel oils may build up significantly in plants and animals.

How might I be exposed to fuel oils?

- Using a home kerosene heater or stove, or using fuel oils at work.
- Breathing air in home or building basements that has been contaminated with fuel oil vapors entering from the soil.
- Drinking or swimming in water that has been contaminated with fuel oils from a spill or a leaking underground storage tank.
- Touching soil contaminated with fuel oils.
- Using fuel oils to wash paint or grease from skin or equipment.

How can fuel oils affect my health?

Little information is available about the health effects that may be caused by fuel oils. People who use kerosene

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stoves for cooking do not seem to have any health problems related to their exposure.

Breathing some fuel oils for short periods may cause nausea, eye irritation, increased blood pressure, headache, lightheadedness, loss of appetite, poor coordination, and difficulty concentrating. Breathing diesel fuel vapors for long periods may cause kidney damage and lower your blood's ability to clot.

Drinking small amounts of kerosene may cause vomiting, diarrhea, coughing, stomach swelling and cramps, drowsiness, restlessness, painful breathing, irritability, and unconsciousness. Drinking large amounts of kerosene may cause convulsions, coma, or death. Skin contact with kerosene for short periods may cause itchy, red, sore, or peeling skin.

How likely are fuel oils to cause cancer?

The International Agency for Research on Cancer (IARC) has determined that some fuel oils (heavy) may possibly cause cancer in humans, but for other fuel oils (light) there is not enough information to make a determination. IARC has also determined that occupational exposures to fuel oils during petroleum refining are probably carcinogenic in humans.

Some studies with mice have suggested that repeated contact with fuel oils may cause liver or skin cancer. However, other mouse studies have found this not to be the case. No studies are available in other animals or in people on the carcinogenic effects of fuel oils.

Is there a medical test to show whether I've been exposed to fuel oils?

There is no medical test that shows if you have been exposed to fuel oils. Tests are available to determine if some of

the chemicals commonly found in fuel oils are in your blood. However, the presence of these chemicals in blood may not necessarily mean that you have been exposed to fuel oils.

Has the federal government made recommendations to protect human health?

The Occupational Safety and Health Administration (OSHA) and the Air Force Office of Safety and Health (AFOSH) have set a permissible exposure level (PEL) of 400 parts of petroleum distillates per million parts of air (400 ppm) for an 8-hour workday, 40-hour workweek.

The National Institute for Occupational Safety and Health (NIOSH) recommends that average workplace air levels not exceed 350 milligrams of petroleum distillates per cubic meter of air (350 mg/m³) for a 40-hour workweek.

The Department of Transportation (DOT) lists fuel oils as hazardous materials and, therefore, regulates their transportation.

Glossary

Carcinogenic: Able to cause cancer.

CAS: Chemical Abstracts Service.

Evaporate: To change into a vapor or a gas.

Hydrocarbon: Any compound made up of hydrogen and carbon.

Milligram (mg): One thousandth of a gram.

ppm: Parts per million.

Sediment: Mud and debris that have settled to the bottom of a body of water.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 1995. Toxicological profile for fuel oils. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop E-29, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 404-498-0093. ToxFAQs Internet address via WWW is <http://www.atsdr.cdc.gov/toxfaq.html> ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.



This fact sheet answers the most frequently asked health questions (FAQs) about lead. For more information, call the ATSDR Information Center at 1-800-232-4636. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It is important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to lead can happen from breathing workplace air or dust, eating contaminated foods, or drinking contaminated water. Children can be exposed from eating lead-based paint chips or playing in contaminated soil. Lead can damage the nervous system, kidneys, and reproductive system. Lead has been found in at least 1,272 of the 1,684 National Priority List sites identified by the Environmental Protection Agency (EPA).

What is lead?

Lead is a naturally occurring bluish-gray metal found in small amounts in the earth's crust. Lead can be found in all parts of our environment. Much of it comes from human activities including burning fossil fuels, mining, and manufacturing.

Lead has many different uses. It is used in the production of batteries, ammunition, metal products (solder and pipes), and devices to shield X-rays. Because of health concerns, lead from paints and ceramic products, caulking, and pipe solder has been dramatically reduced in recent years. The use of lead as an additive to gasoline was banned in 1996 in the United States.

What happens to lead when it enters the environment?

- Lead itself does not break down, but lead compounds are changed by sunlight, air, and water.
- When lead is released to the air, it may travel long distances before settling to the ground.
- Once lead falls onto soil, it usually sticks to soil particles.
- Movement of lead from soil into groundwater will depend on the type of lead compound and the characteristics of the soil.

How might I be exposed to lead?

- Eating food or drinking water that contains lead. Water pipes in some older homes may contain lead solder. Lead can leach out into the water.

- Spending time in areas where lead-based paints have been used and are deteriorating. Deteriorating lead paint can contribute to lead dust.

- Working in a job where lead is used or engaging in certain hobbies in which lead is used, such as making stained glass.

- Using health-care products or folk remedies that contain lead.

How can lead affect my health?

The effects of lead are the same whether it enters the body through breathing or swallowing. Lead can affect almost every organ and system in your body. The main target for lead toxicity is the nervous system, both in adults and children. Long-term exposure of adults can result in decreased performance in some tests that measure functions of the nervous system. It may also cause weakness in fingers, wrists, or ankles. Lead exposure also causes small increases in blood pressure, particularly in middle-aged and older people and can cause anemia. Exposure to high lead levels can severely damage the brain and kidneys in adults or children and ultimately cause death. In pregnant women, high levels of exposure to lead may cause miscarriage. High-level exposure in men can damage the organs responsible for sperm production.

How likely is lead to cause cancer?

We have no conclusive proof that lead causes cancer in humans. Kidney tumors have developed in rats and mice that had been given large doses of some kind of lead compounds. The Department of Health and Human Services

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(DHHS) has determined that lead and lead compounds are reasonably anticipated to be human carcinogens and the EPA has determined that lead is a probable human carcinogen. The International Agency for Research on Cancer (IARC) has determined that inorganic lead is probably carcinogenic to humans and that there is insufficient information to determine whether organic lead compounds will cause cancer in humans.

How can lead affect children?

Small children can be exposed by eating lead-based paint chips, chewing on objects painted with lead-based paint, or swallowing house dust or soil that contains lead.

Children are more vulnerable to lead poisoning than adults. A child who swallows large amounts of lead may develop blood anemia, severe stomachache, muscle weakness, and brain damage. If a child swallows smaller amounts of lead, much less severe effects on blood and brain function may occur. Even at much lower levels of exposure, lead can affect a child's mental and physical growth.

Exposure to lead is more dangerous for young and unborn children. Unborn children can be exposed to lead through their mothers. Harmful effects include premature births, smaller babies, decreased mental ability in the infant, learning difficulties, and reduced growth in young children. These effects are more common if the mother or baby was exposed to high levels of lead. Some of these effects may persist beyond childhood.

How can families reduce the risks of exposure to lead?

- Avoid exposure to sources of lead.
- Do not allow children to chew on mouth surfaces that may have been painted with lead-based paint.
- If you have a water lead problem, run or flush water that has been standing overnight before drinking or cooking with it.
- Some types of paints and pigments that are used as make-up or hair coloring contain lead. Keep these kinds of products away from children
- If your home contains lead-based paint or you live in an area contaminated with lead, wash children's hands and faces

often to remove lead dusts and soil, and regularly clean the house of dust and tracked in soil.

Is there a medical test to determine whether I've been exposed to lead?

A blood test is available to measure the amount of lead in your blood and to estimate the amount of your recent exposure to lead. Blood tests are commonly used to screen children for lead poisoning. Lead in teeth or bones can be measured by X-ray techniques, but these methods are not widely available. Exposure to lead also can be evaluated by measuring erythrocyte protoporphyrin (EP) in blood samples. EP is a part of red blood cells known to increase when the amount of lead in the blood is high. However, the EP level is not sensitive enough to identify children with elevated blood lead levels below about 25 micrograms per deciliter ($\mu\text{g}/\text{dL}$). These tests usually require special analytical equipment that is not available in a doctor's office. However, your doctor can draw blood samples and send them to appropriate laboratories for analysis.

Has the federal government made recommendations to protect human health?

The Centers for Disease Control and Prevention (CDC) recommends that states test children at ages 1 and 2 years. Children should be tested at ages 3–6 years if they have never been tested for lead, if they receive services from public assistance programs for the poor such as Medicaid or the Supplemental Food Program for Women, Infants, and Children, if they live in a building or frequently visit a house built before 1950; if they visit a home (house or apartment) built before 1978 that has been recently remodeled; and/or if they have a brother, sister, or playmate who has had lead poisoning. CDC considers a blood lead level of 10 $\mu\text{g}/\text{dL}$ to be a level of concern for children.

EPA limits lead in drinking water to 15 μg per liter.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2007. Toxicological Profile for lead (Update). Atlanta, GA: U.S. Department of Public Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology and Environmental Medicine, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-800-232-4636, FAX: 770-488-4178. ToxFAQs Internet address via WWW is <http://www.atsdr.cdc.gov/toxfaq.html>. ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.



This fact sheet answers the most frequently asked health questions (FAQs) about mercury. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to mercury occurs from breathing contaminated air, ingesting contaminated water and food, and having dental and medical treatments. Mercury, at high levels, may damage the brain, kidneys, and developing fetus. This chemical has been found in at least 714 of 1,467 National Priorities List sites identified by the Environmental Protection Agency.

What is mercury?

(Pronounced mŭr/kyə-rē)

Mercury is a naturally occurring metal which has several forms. The metallic mercury is a shiny, silver-white, odorless liquid. If heated, it is a colorless, odorless gas.

Mercury combines with other elements, such as chlorine, sulfur, or oxygen, to form inorganic mercury compounds or "salts," which are usually white powders or crystals. Mercury also combines with carbon to make organic mercury compounds. The most common one, methylmercury, is produced mainly by microscopic organisms in the water and soil. More mercury in the environment can increase the amounts of methylmercury that these small organisms make.

Metallic mercury is used to produce chlorine gas and caustic soda, and is also used in thermometers, dental fillings, and batteries. Mercury salts are sometimes used in skin lightening creams and as antiseptic creams and ointments.

What happens to mercury when it enters the environment?

- Inorganic mercury (metallic mercury and inorganic mercury compounds) enters the air from mining ore deposits, burning coal and waste, and from manufacturing plants.
- It enters the water or soil from natural deposits, disposal of wastes, and volcanic activity.

- Methylmercury may be formed in water and soil by small organisms called bacteria.
- Methylmercury builds up in the tissues of fish. Larger and older fish tend to have the highest levels of mercury.

How might I be exposed to mercury?

- Eating fish or shellfish contaminated with methylmercury.
- Breathing vapors in air from spills, incinerators, and industries that burn mercury-containing fuels.
- Release of mercury from dental work and medical treatments.
- Breathing contaminated workplace air or skin contact during use in the workplace (dental, health services, chemical, and other industries that use mercury).
- Practicing rituals that include mercury.

How can mercury affect my health?

The nervous system is very sensitive to all forms of mercury. Methylmercury and metallic mercury vapors are more harmful than other forms, because more mercury in these forms reaches the brain. Exposure to high levels of metallic, inorganic, or organic mercury can permanently damage the brain, kidneys, and developing fetus. Effects on brain functioning may result in irritability, shyness, tremors, changes in vision or hearing, and memory problems.

Short-term exposure to high levels of metallic mercury vapors may cause effects including lung damage, nausea,

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vomiting, diarrhea, increases in blood pressure or heart rate, skin rashes, and eye irritation.

How likely is mercury to cause cancer?

There are inadequate human cancer data available for all forms of mercury. Mercuric chloride has caused increases in several types of tumors in rats and mice, and methylmercury has caused kidney tumors in male mice. The EPA has determined that mercuric chloride and methylmercury are possible human carcinogens.

How can mercury affect children?

Very young children are more sensitive to mercury than adults. Mercury in the mother's body passes to the fetus and may accumulate there. It can also pass to a nursing infant through breast milk. However, the benefits of breast feeding may be greater than the possible adverse effects of mercury in breast milk.

Mercury's harmful effects that may be passed from the mother to the fetus include brain damage, mental retardation, incoordination, blindness, seizures, and inability to speak. Children poisoned by mercury may develop problems of their nervous and digestive systems, and kidney damage.

How can families reduce the risk of exposure to mercury?

Carefully handle and dispose of products that contain mercury, such as thermometers or fluorescent light bulbs. Do not vacuum up spilled mercury, because it will vaporize and increase exposure. If a large amount of mercury has been spilled, contact your health department. Teach children not to play with shiny, silver liquids.

Properly dispose of older medicines that contain mercury. Keep all mercury-containing medicines away from children.

Pregnant women and children should keep away from

rooms where liquid mercury has been used.

Learn about wildlife and fish advisories in your area from your public health or natural resources department.

Is there a medical test to show whether I've been exposed to mercury?

Tests are available to measure mercury levels in the body. Blood or urine samples are used to test for exposure to metallic mercury and to inorganic forms of mercury. Mercury in whole blood or in scalp hair is measured to determine exposure to methylmercury. Your doctor can take samples and send them to a testing laboratory.

Has the federal government made recommendations to protect human health?

The EPA has set a limit of 2 parts of mercury per billion parts of drinking water (2 ppb).

The Food and Drug Administration (FDA) has set a maximum permissible level of 1 part of methylmercury in a million parts of seafood (1 ppm).

The Occupational Safety and Health Administration (OSHA) has set limits of 0.1 milligram of organic mercury per cubic meter of workplace air (0.1 mg/m³) and 0.05 mg/m³ of metallic mercury vapor for 8-hour shifts and 40-hour work weeks.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 1999. Toxicological profile for mercury. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs Internet address via WWW is <http://www.atsdr.cdc.gov/toxfaq.html> ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.



This fact sheet answers the most frequently asked health questions (FAQs) about polychlorinated biphenyls. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Polychlorinated biphenyls (PCBs) are a mixture of individual chemicals which are no longer produced in the United States, but are still found in the environment. Health effects that have been associated with exposure to PCBs include acne-like skin conditions in adults and neurobehavioral and immunological changes in children. PCBs are known to cause cancer in animals. PCBs have been found in at least 500 of the 1,598 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What are polychlorinated biphenyls?

Polychlorinated biphenyls are mixtures of up to 209 individual chlorinated compounds (known as congeners). There are no known natural sources of PCBs. PCBs are either oily liquids or solids that are colorless to light yellow. Some PCBs can exist as a vapor in air. PCBs have no known smell or taste. Many commercial PCB mixtures are known in the U.S. by the trade name Aroclor.

PCBs have been used as coolants and lubricants in transformers, capacitors, and other electrical equipment because they don't burn easily and are good insulators. The manufacture of PCBs was stopped in the U.S. in 1977 because of evidence they build up in the environment and can cause harmful health effects. Products made before 1977 that may contain PCBs include old fluorescent lighting fixtures and electrical devices containing PCB capacitors, and old microscope and hydraulic oils.

What happens to PCBs when they enter the environment?

- PCBs entered the air, water, and soil during their manufacture, use, and disposal; from accidental spills and leaks during their transport; and from leaks or fires in products containing PCBs.
- PCBs can still be released to the environment from hazardous waste sites; illegal or improper disposal of industrial wastes and consumer products; leaks from old electrical transformers containing PCBs; and burning of some wastes in incinerators.
- PCBs do not readily break down in the environment and thus may remain there for very long periods of time. PCBs can travel long distances in the air and be deposited in areas far away from where they were released. In water, a small amount of PCBs may remain dissolved, but most stick to organic particles and bottom sediments. PCBs also bind strongly to soil.
- PCBs are taken up by small organisms and fish in water. They are also taken up by other animals that eat these

aquatic animals as food. PCBs accumulate in fish and marine mammals, reaching levels that may be many thousands of times higher than in water.

How might I be exposed to PCBs?

- Using old fluorescent lighting fixtures and electrical devices and appliances, such as television sets and refrigerators, that were made 30 or more years ago. These items may leak small amounts of PCBs into the air when they get hot during operation, and could be a source of skin exposure.
- Eating contaminated food. The main dietary sources of PCBs are fish (especially sportfish caught in contaminated lakes or rivers), meat, and dairy products.
- Breathing air near hazardous waste sites and drinking contaminated well water.
- In the workplace during repair and maintenance of PCB transformers; accidents, fires or spills involving transformers, fluorescent lights, and other old electrical devices; and disposal of PCB materials.

How can PCBs affect my health?

The most commonly observed health effects in people exposed to large amounts of PCBs are skin conditions such as acne and rashes. Studies in exposed workers have shown changes in blood and urine that may indicate liver damage. PCB exposures in the general population are not likely to result in skin and liver effects. Most of the studies of health effects of PCBs in the general population examined children of mothers who were exposed to PCBs.

Animals that ate food containing large amounts of PCBs for short periods of time had mild liver damage and some died. Animals that ate smaller amounts of PCBs in food over several weeks or months developed various kinds of health effects, including anemia; acne-like skin conditions; and liver, stomach, and thyroid gland injuries. Other effects

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of PCBs in animals include changes in the immune system, behavioral alterations, and impaired reproduction. PCBs are not known to cause birth defects.

How likely are PCBs to cause cancer?

Few studies of workers indicate that PCBs were associated with certain kinds of cancer in humans, such as cancer of the liver and biliary tract. Rats that ate food containing high levels of PCBs for two years developed liver cancer. The Department of Health and Human Services (DHHS) has concluded that PCBs may reasonably be anticipated to be carcinogens. The EPA and the International Agency for Research on Cancer (IARC) have determined that PCBs are probably carcinogenic to humans.

How can PCBs affect children?

Women who were exposed to relatively high levels of PCBs in the workplace or ate large amounts of fish contaminated with PCBs had babies that weighed slightly less than babies from women who did not have these exposures. Babies born to women who ate PCB-contaminated fish also showed abnormal responses in tests of infant behavior. Some of these behaviors, such as problems with motor skills and a decrease in short-term memory, lasted for several years. Other studies suggest that the immune system was affected in children born to and nursed by mothers exposed to increased levels of PCBs. There are no reports of structural birth defects caused by exposure to PCBs or of health effects of PCBs in older children. The most likely way infants will be exposed to PCBs is from breast milk. Transplacental transfers of PCBs were also reported. In most cases, the benefits of breastfeeding outweigh any risks from exposure to PCBs in mother's milk.

How can families reduce the risk of exposure to PCBs?

- You and your children may be exposed to PCBs by eating fish or wildlife caught from contaminated locations. Certain states, Native American tribes, and U.S. territories have issued advisories to warn people about PCB-contaminated fish and fish-eating wildlife. You can reduce your family's exposure to PCBs by obeying these advisories.
- Children should be told not play with old appliances,

electrical equipment, or transformers, since they may contain PCBs.

- Children should be discouraged from playing in the dirt near hazardous waste sites and in areas where there was a transformer fire. Children should also be discouraged from eating dirt and putting dirty hands, toys or other objects in their mouths, and should wash hands frequently.
- If you are exposed to PCBs in the workplace it is possible to carry them home on your clothes, body, or tools. If this is the case, you should shower and change clothing before leaving work, and your work clothes should be kept separate from other clothes and laundered separately.

Is there a medical test to show whether I've been exposed to PCBs?

Tests exist to measure levels of PCBs in your blood, body fat, and breast milk, but these are not routinely conducted. Most people normally have low levels of PCBs in their body because nearly everyone has been environmentally exposed to PCBs. The tests can show if your PCB levels are elevated, which would indicate past exposure to above-normal levels of PCBs, but cannot determine when or how long you were exposed or whether you will develop health effects.

Has the federal government made recommendations to protect human health?

The EPA has set a limit of 0.0005 milligrams of PCBs per liter of drinking water (0.0005 mg/L). Discharges, spills or accidental releases of 1 pound or more of PCBs into the environment must be reported to the EPA. The Food and Drug Administration (FDA) requires that infant foods, eggs, milk and other dairy products, fish and shellfish, poultry and red meat contain no more than 0.2-3 parts of PCBs per million parts (0.2-3 ppm) of food. Many states have established fish and wildlife consumption advisories for PCBs.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2000. Toxicological profile for polychlorinated biphenyls (PCBs). Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop E-29, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 404-498-0093. ToxFAQs™ Internet address is <http://www.atsdr.cdc.gov/toxfaq.html>. ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.



This fact sheet answers the most frequently asked health questions (FAQs) about polycyclic aromatic hydrocarbons (PAHs). For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. This information is important because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

SUMMARY: Exposure to polycyclic aromatic hydrocarbons usually occurs by breathing air contaminated by wild fires or coal tar, or by eating foods that have been grilled. PAHs have been found in at least 600 of the 1,430 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What are polycyclic aromatic hydrocarbons?

(Pronounced pŏl'ī-sī'klīk ār'ə-măt'īk hī'drə-kar'bənz)

Polycyclic aromatic hydrocarbons (PAHs) are a group of over 100 different chemicals that are formed during the incomplete burning of coal, oil and gas, garbage, or other organic substances like tobacco or charbroiled meat. PAHs are usually found as a mixture containing two or more of these compounds, such as soot.

Some PAHs are manufactured. These pure PAHs usually exist as colorless, white, or pale yellow-green solids. PAHs are found in coal tar, crude oil, creosote, and roofing tar, but a few are used in medicines or to make dyes, plastics, and pesticides.

What happens to PAHs when they enter the environment?

- PAHs enter the air mostly as releases from volcanoes, forest fires, burning coal, and automobile exhaust.
- PAHs can occur in air attached to dust particles.
- Some PAH particles can readily evaporate into the air from soil or surface waters.
- PAHs can break down by reacting with sunlight and other chemicals in the air, over a period of days to weeks.

- PAHs enter water through discharges from industrial and wastewater treatment plants.
- Most PAHs do not dissolve easily in water. They stick to solid particles and settle to the bottoms of lakes or rivers.
- Microorganisms can break down PAHs in soil or water after a period of weeks to months.
- In soils, PAHs are most likely to stick tightly to particles; certain PAHs move through soil to contaminate underground water.
- PAH contents of plants and animals may be much higher than PAH contents of soil or water in which they live.

How might I be exposed to PAHs?

- Breathing air containing PAHs in the workplace of coking, coal-tar, and asphalt production plants; smoke-houses; and municipal trash incineration facilities.
- Breathing air containing PAHs from cigarette smoke, wood smoke, vehicle exhausts, asphalt roads, or agricultural burn smoke.
- Coming in contact with air, water, or soil near hazardous waste sites.
- Eating grilled or charred meats; contaminated cereals, flour, bread, vegetables, fruits, meats; and processed or pickled foods.
- Drinking contaminated water or cow's milk.

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- ❑ Nursing infants of mothers living near hazardous waste sites may be exposed to PAHs through their mother's milk.

How can PAHs affect my health?

Mice that were fed high levels of one PAH during pregnancy had difficulty reproducing and so did their offspring. These offspring also had higher rates of birth defects and lower body weights. It is not known whether these effects occur in people.

Animal studies have also shown that PAHs can cause harmful effects on the skin, body fluids, and ability to fight disease after both short- and long-term exposure. But these effects have not been seen in people.

How likely are PAHs to cause cancer?

The Department of Health and Human Services (DHHS) has determined that some PAHs may reasonably be expected to be carcinogens.

Some people who have breathed or touched mixtures of PAHs and other chemicals for long periods of time have developed cancer. Some PAHs have caused cancer in laboratory animals when they breathed air containing them (lung cancer), ingested them in food (stomach cancer), or had them applied to their skin (skin cancer).

Is there a medical test to show whether I've been exposed to PAHs?

In the body, PAHs are changed into chemicals that can attach to substances within the body. There are special tests that can detect PAHs attached to these substances in body tissues or blood. However, these tests cannot tell whether any

health effects will occur or find out the extent or source of your exposure to the PAHs. The tests aren't usually available in your doctor's office because special equipment is needed to conduct them.

Has the federal government made recommendations to protect human health?

The Occupational Safety and Health Administration (OSHA) has set a limit of 0.2 milligrams of PAHs per cubic meter of air (0.2 mg/m³). The OSHA Permissible Exposure Limit (PEL) for mineral oil mist that contains PAHs is 5 mg/m³ averaged over an 8-hour exposure period.

The National Institute for Occupational Safety and Health (NIOSH) recommends that the average workplace air levels for coal tar products not exceed 0.1 mg/m³ for a 10-hour workday, within a 40-hour workweek. There are other limits for workplace exposure for things that contain PAHs, such as coal, coal tar, and mineral oil.

Glossary

Carcinogen: A substance that can cause cancer.

Ingest: Take food or drink into your body.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 1995. Toxicological profile for polycyclic aromatic hydrocarbons. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs Internet address via WWW is <http://www.atsdr.cdc.gov/toxfaq.html> ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.



This fact sheet answers the most frequently asked health questions (FAQs) about trichloroethylene. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. This information is important because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Trichloroethylene is a colorless liquid which is used as a solvent for cleaning metal parts. Drinking or breathing high levels of trichloroethylene may cause nervous system effects, liver and lung damage, abnormal heartbeat, coma, and possibly death. Trichloroethylene has been found in at least 852 of the 1,430 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is trichloroethylene?

Trichloroethylene (TCE) is a nonflammable, colorless liquid with a somewhat sweet odor and a sweet, burning taste. It is used mainly as a solvent to remove grease from metal parts, but it is also an ingredient in adhesives, paint removers, typewriter correction fluids, and spot removers.

Trichloroethylene is not thought to occur naturally in the environment. However, it has been found in underground water sources and many surface waters as a result of the manufacture, use, and disposal of the chemical.

What happens to trichloroethylene when it enters the environment?

- ❑ Trichloroethylene dissolves a little in water, but it can remain in ground water for a long time.
- ❑ Trichloroethylene quickly evaporates from surface water, so it is commonly found as a vapor in the air.
- ❑ Trichloroethylene evaporates less easily from the soil than from surface water. It may stick to particles and remain for a long time.
- ❑ Trichloroethylene may stick to particles in water, which will cause it to eventually settle to the bottom sediment.
- ❑ Trichloroethylene does not build up significantly in

plants and animals.

How might I be exposed to trichloroethylene?

- ❑ Breathing air in and around the home which has been contaminated with trichloroethylene vapors from shower water or household products such as spot removers and typewriter correction fluid.
- ❑ Drinking, swimming, or showering in water that has been contaminated with trichloroethylene.
- ❑ Contact with soil contaminated with trichloroethylene, such as near a hazardous waste site.
- ❑ Contact with the skin or breathing contaminated air while manufacturing trichloroethylene or using it at work to wash paint or grease from skin or equipment.

How can trichloroethylene affect my health?

Breathing small amounts may cause headaches, lung irritation, dizziness, poor coordination, and difficulty concentrating.

Breathing large amounts of trichloroethylene may cause impaired heart function, unconsciousness, and death. Breathing it for long periods may cause nerve, kidney, and liver damage.

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Drinking large amounts of trichloroethylene may cause nausea, liver damage, unconsciousness, impaired heart function, or death.

Drinking small amounts of trichloroethylene for long periods may cause liver and kidney damage, impaired immune system function, and impaired fetal development in pregnant women, although the extent of some of these effects is not yet clear.

Skin contact with trichloroethylene for short periods may cause skin rashes.

How likely is trichloroethylene to cause cancer?

Some studies with mice and rats have suggested that high levels of trichloroethylene may cause liver, kidney, or lung cancer. Some studies of people exposed over long periods to high levels of trichloroethylene in drinking water or in workplace air have found evidence of increased cancer. Although, there are some concerns about the studies of people who were exposed to trichloroethylene, some of the effects found in people were similar to effects in animals.

In its 9th Report on Carcinogens, the National Toxicology Program (NTP) determined that trichloroethylene is “reasonably anticipated to be a human carcinogen.” The International Agency for Research on Cancer (IARC) has determined that trichloroethylene is “probably carcinogenic to humans.”

Is there a medical test to show whether I've been exposed to trichloroethylene?

If you have recently been exposed to trichloroethylene, it can be detected in your breath, blood, or urine. The breath test, if it is performed soon after exposure, can tell if you have been exposed to even a small amount of trichloroethylene.

Exposure to larger amounts is assessed by blood

and urine tests, which can detect trichloroethylene and many of its breakdown products for up to a week after exposure. However, exposure to other similar chemicals can produce the same breakdown products, so their detection is not absolute proof of exposure to trichloroethylene. This test isn't available at most doctors' offices, but can be done at special laboratories that have the right equipment.

Has the federal government made recommendations to protect human health?

The EPA has set a maximum contaminant level for trichloroethylene in drinking water at 0.005 milligrams per liter (0.005 mg/L) or 5 parts of TCE per billion parts water.

The EPA has also developed regulations for the handling and disposal of trichloroethylene.

The Occupational Safety and Health Administration (OSHA) has set an exposure limit of 100 parts of trichloroethylene per million parts of air (100 ppm) for an 8-hour workday, 40-hour workweek.

Glossary

Carcinogenicity: The ability of a substance to cause cancer.

CAS: Chemical Abstracts Service.

Evaporate: To change into a vapor or gas.

Milligram (mg): One thousandth of a gram.

Nonflammable: Will not burn.

ppm: Parts per million.

Sediment: Mud and debris that have settled to the bottom of a body of water.

Solvent: A chemical that dissolves other substances.

References

This ToxFAQs information is taken from the 1997 Toxicological Profile for Trichloroethylene (update) produced by the Agency for Toxic Substances and Disease Registry, Public Health Service, U.S. Department of Health and Human Services, Public Health Service in Atlanta, GA.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs™ Internet address is <http://www.atsdr.cdc.gov/toxfaq.html>. ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

This fact sheet answers the most frequently asked health questions (FAQs) about toluene. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to toluene occurs from breathing contaminated workplace air, in automobile exhaust, some consumer products paints, paint thinners, fingernail polish, lacquers, and adhesives. Toluene affects the nervous system. Toluene has been found at 959 of the 1,591 National Priority List sites identified by the Environmental Protection Agency

What is toluene?

Toluene is a clear, colorless liquid with a distinctive smell. Toluene occurs naturally in crude oil and in the tolu tree. It is also produced in the process of making gasoline and other fuels from crude oil and making coke from coal.

Toluene is used in making paints, paint thinners, fingernail polish, lacquers, adhesives, and rubber and in some printing and leather tanning processes.

What happens to toluene when it enters the environment?

Toluene enters the environment when you use materials that contain it. It can also enter surface water and groundwater from spills of solvents and petroleum products as well as from leaking underground storage tanks at gasoline stations and other facilities.

When toluene-containing products are placed in landfills or waste disposal sites, the toluene can enter the soil or water near the waste site.

Toluene does not usually stay in the environment long.

Toluene does not concentrate or buildup to high levels in animals.

How might I be exposed to toluene?

Breathing contaminated workplace air or automobile exhaust.

Working with gasoline, kerosene, heating oil, paints, and lacquers.

Drinking contaminated well-water.

Living near uncontrolled hazardous waste sites containing toluene products.

How can toluene affect my health?

Toluene may affect the nervous system. Low to moderate levels can cause tiredness, confusion, weakness, drunken-type actions, memory loss, nausea, loss of appetite, and

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hearing and color vision loss. These symptoms usually disappear when exposure is stopped.

Inhaling High levels of toluene in a short time can make you feel light-headed, dizzy, or sleepy. It can also cause unconsciousness, and even death.

High levels of toluene may affect your kidneys.

How likely is toluene to cause cancer?

Studies in humans and animals generally indicate that toluene does not cause cancer.

The EPA has determined that the carcinogenicity of toluene can not be classified.

How can toluene affect children?

It is likely that health effects seen in children exposed to toluene will be similar to the effects seen in adults. Some studies in animals suggest that babies may be more sensitive than adults.

Breathing very high levels of toluene during pregnancy can result in children with birth defects and retard mental abilities, and growth. We do not know if toluene harms the unborn child if the mother is exposed to low levels of toluene during pregnancy.

How can families reduce the risk of exposure to toluene?

- Use toluene-containing products in well-ventilated areas.

- When not in use, toluene-containing products should be tightly covered to prevent evaporation into the air.

Is there a medical test to show whether I've been exposed to toluene?

There are tests to measure the level of toluene or its breakdown products in exhaled air, urine, and blood. To determine if you have been exposed to toluene, your urine or blood must be checked within 12 hours of exposure. Several other chemicals are also changed into the same breakdown products as toluene, so some of these tests are not specific for toluene.

Has the federal government made recommendations to protect human health?

EPA has set a limit of 1 milligram per liter of drinking water (1 mg/L).

Discharges, releases, or spills of more than 1,000 pounds of toluene must be reported to the National Response Center.

The Occupational Safety and Health Administration has set a limit of 200 parts toluene per million of workplace air (200 ppm).

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2000. Toxicological Profile for Toluene. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs™ Internet address is <http://www.atsdr.cdc.gov/toxfaq.html>. ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.



This fact sheet answers the most frequently asked health questions (FAQs) about tetrachloroethylene. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Tetrachloroethylene is a manufactured chemical used for dry cleaning and metal degreasing. Exposure to very high concentrations of tetrachloroethylene can cause dizziness, headaches, sleepiness, confusion, nausea, difficulty in speaking and walking, unconsciousness, and death. Tetrachloroethylene has been found in at least 771 of the 1,430 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is tetrachloroethylene?

(Pronounced tět'rə-klôr' 0-ěth'ə-lēn')

Tetrachloroethylene is a manufactured chemical that is widely used for dry cleaning of fabrics and for metal-degreasing. It is also used to make other chemicals and is used in some consumer products.

Other names for tetrachloroethylene include perchloroethylene, PCE, and tetrachloroethene. It is a nonflammable liquid at room temperature. It evaporates easily into the air and has a sharp, sweet odor. Most people can smell tetrachloroethylene when it is present in the air at a level of 1 part tetrachloroethylene per million parts of air (1 ppm) or more, although some can smell it at even lower levels.

What happens to tetrachloroethylene when it enters the environment?

- Much of the tetrachloroethylene that gets into water or soil evaporates into the air.
- Microorganisms can break down some of the tetrachloroethylene in soil or underground water.
- In the air, it is broken down by sunlight into other chemicals or brought back to the soil and water by rain.
- It does not appear to collect in fish or other animals that live in water.

How might I be exposed to tetrachloroethylene?

- When you bring clothes from the dry cleaners, they will release small amounts of tetrachloroethylene into the air.
- When you drink water containing tetrachloroethylene, you are exposed to it.

How can tetrachloroethylene affect my health?

High concentrations of tetrachloroethylene (particularly in closed, poorly ventilated areas) can cause dizziness, headache, sleepiness, confusion, nausea, difficulty in speaking and walking, unconsciousness, and death.

Irritation may result from repeated or extended skin contact with it. These symptoms occur almost entirely in work (or hobby) environments when people have been accidentally exposed to high concentrations or have intentionally used tetrachloroethylene to get a "high."

In industry, most workers are exposed to levels lower than those causing obvious nervous system effects. The health effects of breathing in air or drinking water with low levels of tetrachloroethylene are not known.

Results from some studies suggest that women who work in dry cleaning industries where exposures to tetrachloroethyl-

ToxFAQs Internet home page via WWW is <http://www.atsdr.cdc.gov/toxfaq.html>

ene can be quite high may have more menstrual problems and spontaneous abortions than women who are not exposed. However, it is not known if tetrachloroethylene was responsible for these problems because other possible causes were not considered.

Results of animal studies, conducted with amounts much higher than those that most people are exposed to, show that tetrachloroethylene can cause liver and kidney damage. Exposure to very high levels of tetrachloroethylene can be toxic to the unborn pups of pregnant rats and mice. Changes in behavior were observed in the offspring of rats that breathed high levels of the chemical while they were pregnant.

How likely is tetrachloroethylene to cause cancer?

The Department of Health and Human Services (DHHS) has determined that tetrachloroethylene may reasonably be anticipated to be a carcinogen. Tetrachloroethylene has been shown to cause liver tumors in mice and kidney tumors in male rats.

Is there a medical test to show whether I've been exposed to tetrachloroethylene?

One way of testing for tetrachloroethylene exposure is to measure the amount of the chemical in the breath, much the same way breath-alcohol measurements are used to determine the amount of alcohol in the blood.

Because it is stored in the body's fat and slowly released into the bloodstream, tetrachloroethylene can be detected in the breath for weeks following a heavy exposure.

Tetrachloroethylene and trichloroacetic acid (TCA), a breakdown product of tetrachloroethylene, can be detected in the blood. These tests are relatively simple to perform. These tests aren't available at most doctors' offices, but can be per-

formed at special laboratories that have the right equipment.

Because exposure to other chemicals can produce the same breakdown products in the urine and blood, the tests for breakdown products cannot determine if you have been exposed to tetrachloroethylene or the other chemicals.

Has the federal government made recommendations to protect human health?

The EPA maximum contaminant level for the amount of tetrachloroethylene that can be in drinking water is 0.005 milligrams tetrachloroethylene per liter of water (0.005 mg/L).

The Occupational Safety and Health Administration (OSHA) has set a limit of 100 ppm for an 8-hour workday over a 40-hour workweek.

The National Institute for Occupational Safety and Health (NIOSH) recommends that tetrachloroethylene be handled as a potential carcinogen and recommends that levels in workplace air should be as low as possible.

Glossary

Carcinogen: A substance with the ability to cause cancer.

CAS: Chemical Abstracts Service.

Milligram (mg): One thousandth of a gram.

Nonflammable: Will not burn.

References

This ToxFAQs information is taken from the 1997 Toxicological Profile for Tetrachloroethylene (update) produced by the Agency for Toxic Substances and Disease Registry, Public Health Service, U.S. Department of Health and Human Services, Public Health Service in Atlanta, GA.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs Internet address via WWW is <http://www.atsdr.cdc.gov/toxfaq.html> ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.



This fact sheet answers the most frequently asked health questions (FAQs) about xylene. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

SUMMARY: Exposure to xylene occurs in the workplace and when you use paint, gasoline, paint thinners and other products that contain it. People who breathe high levels may have dizziness, confusion, and a change in their sense of balance. This substance has been found in at least 658 of the 1,430 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is xylene?

(Pronounced zī'lēn)

Xylene is a colorless, sweet-smelling liquid that catches on fire easily. It occurs naturally in petroleum and coal tar and is formed during forest fires. You can smell xylene in air at 0.08–3.7 parts of xylene per million parts of air (ppm) and begin to taste it in water at 0.53–1.8 ppm.

Chemical industries produce xylene from petroleum. It's one of the top 30 chemicals produced in the United States in terms of volume.

Xylene is used as a solvent and in the printing, rubber, and leather industries. It is also used as a cleaning agent, a thinner for paint, and in paints and varnishes. It is found in small amounts in airplane fuel and gasoline.

What happens to xylene when it enters the environment?

- Xylene has been found in waste sites and landfills when discarded as used solvent, or in varnish, paint, or paint thinners.
- It evaporates quickly from the soil and surface water into the air.

- In the air, it is broken down by sunlight into other less harmful chemicals.
- It is broken down by microorganisms in soil and water.
- Only a small amount of it builds up in fish, shellfish, plants, and animals living in xylene-contaminated water.

How might I be exposed to xylene?

- Breathing xylene in workplace air or in automobile exhaust.
- Breathing contaminated air.
- Touching gasoline, paint, paint removers, varnish, shellac, and rust preventatives that contain it.
- Breathing cigarette smoke that has small amounts of xylene in it.
- Drinking contaminated water or breathing air near waste sites and landfills that contain xylene.
- The amount of xylene in food is likely to be low.

How can xylene affect my health?

Xylene affects the brain. High levels from exposure for short periods (14 days or less) or long periods (more than 1 year) can cause headaches, lack of muscle coordination, dizziness, confusion, and changes in one's sense of balance. Exposure of

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people to high levels of xylene for short periods can also cause irritation of the skin, eyes, nose, and throat; difficulty in breathing; problems with the lungs; delayed reaction time; memory difficulties; stomach discomfort; and possibly changes in the liver and kidneys. It can cause unconsciousness and even death at very high levels.

Studies of unborn animals indicate that high concentrations of xylene may cause increased numbers of deaths, and delayed growth and development. In many instances, these same concentrations also cause damage to the mothers. We do not know if xylene harms the unborn child if the mother is exposed to low levels of xylene during pregnancy.

How likely is xylene to cause cancer?

The International Agency for Research on Cancer (IARC) has determined that xylene is not classifiable as to its carcinogenicity in humans.

Human and animal studies have not shown xylene to be carcinogenic, but these studies are not conclusive and do not provide enough information to conclude that xylene does not cause cancer.

Is there a medical test to show whether I've been exposed to xylene?

Laboratory tests can detect xylene or its breakdown products in exhaled air, blood, or urine. There is a high degree of agreement between the levels of exposure to xylene and the levels of xylene breakdown products in the urine. However, a urine sample must be provided very soon after exposure ends because xylene quickly leaves the body. These tests are not routinely available at your doctor's office.

Has the federal government made recommendations to protect human health?

The EPA has set a limit of 10 ppm of xylene in drinking water.

The EPA requires that spills or accidental releases of xylenes into the environment of 1,000 pounds or more must be reported.

The Occupational Safety and Health Administration (OSHA) has set a maximum level of 100 ppm xylene in workplace air for an 8-hour workday, 40-hour workweek.

The National Institute for Occupational Safety and Health (NIOSH) and the American Conference of Governmental Industrial Hygienists (ACGIH) also recommend exposure limits of 100 ppm in workplace air.

NIOSH has recommended that 900 ppm of xylene be considered immediately dangerous to life or health. This is the exposure level of a chemical that is likely to cause permanent health problems or death.

Glossary

Evaporate: To change from a liquid into a vapor or a gas.

Carcinogenic: Having the ability to cause cancer.

CAS: Chemical Abstracts Service.

ppm: Parts per million.

Solvent: A liquid that can dissolve other substances.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 1995. Toxicological profile for xylenes (update). Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop E-29, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 404-498-0093. ToxFAQs Internet address via WWW is <http://www.atsdr.cdc.gov/toxfaq.html> ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.



APPENDIX B
REPORT FORMS

WEEKLY SAFETY REPORT FORM

Week Ending: _____ Project Name/Number: _____

Report Date: _____ Project Manager Name: _____

Summary of any violations of procedures occurring that week:

Summary of any job related injuries, illnesses, or near misses that week:

Summary of air monitoring data that week (include and sample analyses, action levels exceeded, and actions taken):

Comments:

Name: _____ Company: _____

Signature: _____ Title: _____

INJURED - ILL:

Name: _____ SSN: _____

Address: _____ Age: _____

Length of Service: _____ Time on Present Job: _____

Time/Classification: _____

SEVERITY OF INJURY OR ILLNESS:

___ Disabling ___ Non-disabling ___ Fatality

___ Medical Treatment ___ First Aid Only

ESTIMATED NUMBER OF DAYS AWAY FROM JOB: _____

NATURE OF INJURY OR ILLNESS: _____

CLASSIFICATION OF INJURY:

- | | | |
|--------------------|-----------------------|----------------------------|
| ___ Abrasions | _____ Dislocations | _____ Punctures |
| ___ Bites | _____ Faint/Dizziness | _____ Radiation Burns |
| ___ Blisters | _____ Fractures | _____ Respiratory Allergy |
| ___ Bruises | _____ Frostbite | _____ Sprains |
| ___ Chemical Burns | _____ Heat Burns | _____ Toxic Resp. Exposure |
| ___ Cold Exposure | _____ Heat Exhaustion | _____ Toxic Ingestion |
| ___ Concussion | _____ Heat Stroke | _____ Dermal Allergy |
| ___ Lacerations | | |

Part of Body Affected: _____

Degree of Disability: _____

Date Medical Care was Received: _____

Where Medical Care was Received: _____

Address (if off-site): _____

(If two or more injuries, record on separate sheets)

PROPERTY DAMAGE:

Description of Damage: _____

Cost of Damage: \$ _____

ACCIDENT/INCIDENT LOCATION: _____

ACCIDENT/INCIDENT ANALYSIS: Causative agent most directly related to accident/incident
(Object, substance, material, machinery, equipment, conditions)

Was weather a factor?: _____

Unsafe mechanical/physical/environmental condition at time of accident/incident (Be specific):

Personal factors (Attitude, knowledge or skill, reaction time, fatigue):

ON-SITE ACCIDENTS/INCIDENTS:

Level of personal protection equipment required in Site Safety Plan:

Modifications:

Was injured using required equipment?:

If not, how did actual equipment use differ from plan?:

ACTION TAKEN TO PREVENT RECURRENCE: (Be specific. What has or will be done? When will it be done? Who is the responsible party to insure that the correction is made?)

ACCIDENT/INCIDENT REPORT REVIEWED BY:

SSO Name Printed

SSO Signature

OTHERS PARTICIPATING IN INVESTIGATION:

Signature

Title

Signature

Title

Signature

Title

ACCIDENT/INCIDENT FOLLOW-UP: Date: _____

Outcome of accident/incident: _____

Physician's recommendations: _____

Date injured returned to work: _____

Follow-up performed by: _____

Signature

Title

ATTACH ANY ADDITIONAL INFORMATION TO THIS FORM

APPENDIX C
EMERGENCY HAND SIGNALS

EMERGENCY SIGNALS

In most cases, field personnel will carry portable radios for communication. If this is the case, a transmission that indicates an emergency will take priority over all other transmissions. All other site radios will yield the frequency to the emergency transmissions.

Where radio communications is not available, the following air-horn and/or hand signals will be used:

EMERGENCY HAND SIGNALS

OUT OF AIR, CAN'T BREATHE!



Hand gripping throat

**LEAVE AREA IMMEDIATELY,
NO DEBATE!**

(No Picture) Grip partner's wrist or place both hands around waist

NEED ASSISTANCE!



Hands on top of head

OKAY! – I'M ALL RIGHT!

- I UNDERSTAND!



Thumbs up

NO! - NEGATIVE!



Thumbs down