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NYSDEC BROWNFIELD CLEANUP PROGRAM

APPLICATION AND NARRATIVE REPORT – BCP #C203130

January 17, 2020

Submitted for:

Former Adhesive Products Corporation
1660 Boone Avenue
Bronx, New York
New York Tax Map Designation: Block 3015; Lot 1

Submitted to:

Site Control Section
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7020

Prepared for:

JJS Boone LLC
511 Canal Street, Suite 500
New York, NY 10013

IEC Project Number:
#13747

TABLE OF CONTENTS

Section **Topic** **Page**

1 INTRODUCTION 5

1.1 Requestor 5

1.2 Requestor Eligibility as a Volunteer 5

1.3 Property Description Narrative 5

1.4 Current Property Operator 8

2 PROJECT DESCRIPTION 9

2.1 Project Overview 9

2.2 Benefits to the Community 9

2.3 Project Schedule 10

3 ENVIRONMENTAL HISTORY 11

3.1 Underground Storage Tanks 12

3.2 NYSDEC Spill Incident Database 12

3.3 NYCDEP Inspection Records 12

3.4 NYCDOB Planning Records 12

3.5 RCRA Activity 13

3.6 E-Designation 13

3.7 Summary of Previous Investigations 13

3.8 Summary of Potential Contamination and Environmental Conditions 15

3.9 Cost Analysis for Potential Environmental Conditions 16

3.10 Previous Owners and Operators 17

4 CONTACT LIST INFORMATION 18

4.1 Government Contacts 18

4.2 Adjacent Property Owner Contacts 19

4.3 Adjacent Property Tenants 20

4.4 Local News Media 21

4.5 Public Water Supplier 21

4.6 Requested Contacts 21

4.7 Schools, Childcare Facilities and Hospitals 21

4.8 Document Repository 23

5 LAND USE FACTORS 25

5.1 Current Land Use 25
5.2 Surrounding Land Use 25
5.3 Development Patterns & Zoning Laws 25
5.4 Environmental Zone 26
5.5 Environmental Justice Area 26
5.6 Site Geography and Geology 26
5.7 Groundwater Vulnerability 27
5.8 Community Master Plan(s) 27

FIGURES

Figure 1: Site Location and Surrounding Land Use Map

Figure 2: New York City Tax Map

Figure 3: Site Topographic Map

Figure 4: Soil Sample Location Plan

Figure 5: Soil Vapor Sample Location Plan

Figure 6: GPR Survey

Figure 7: Schools, Day Care Centers and Hospitals within 0.5 Mile Radius of Site

Figure 8: New York State Environmental Zones

Figure 9: Potential Environmental Justice Areas

Figure 10: FEMA Flood Zone Map

Figure 11: Chemical & Petroleum Tank Location Map

Figure 12: Property Base Map

APPENDICES

Appendix A: Brownfield Cleanup Program Application Form

Appendix B: JJS Boone LLC Corporate Documents

Appendix C: Proposed Development Drawings

Appendix D: NYCDEP Inspection Records & NYCDOB Planning Records

Appendix E: Previous Environmental Reports

E1 – Equity Environmental Engineering Phase I Environmental Site Assessment, Dated December 18, 2018

E2 – Impact Remedial Investigation Report, Dated August 28, 2019

E3 – Impact Waste Characterization Report, Dated July 30, 2019

E4 – AmeriGEO Preliminary Geotechnical Investigation Report, Dated April 2, 2019

Appendix F: Document Repository Correspondence

Appendix G: Access Agreement

Appendix H: Title Report

1 INTRODUCTION

JJS Boone LLC is seeking to remediate a property located at the intersection of Boone Avenue and 173rd Street, within the West Farms section of the Bronx, New York, herein referred to as the "Site." As a part of the remedial action, JJS Boone LLC is petitioning to enter the New York State Brownfield Cleanup Program (BCP) as a volunteer. The BCP Application is provided in **Appendix A**. The property consists of a single, 10,906 square foot parcel of land, currently developed with a three-story commercial structure (**Figure 1**). The Site is identified on the New York City Tax Map as Section 11, Block 3015, Lot 1 (**Figure 2**). Historically, the Site operated as a manufacturer of adhesive products, and is currently used as a plumbing supply warehouse. **Figure 12** shows the property boundary and adjacent properties.

Previous environmental reporting has verified soil and soil vapor contamination at the Site which was not addressed by the previous owner. This subsurface contamination has added a considerable economic burden to the strategic, regulatory, financial and planning analysis required to correct the subsurface environmental issue at the Site. Accordingly, JJS Boone LLC is applying for entry of the Site into the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP). This document provides the supplemental information required in the application package.

1.1 Requestor

JJS Boone LLC, maintaining an address at 511 Canal Street, Suite 500, New York, New York, is the applicant for the project and is applying to the Brownfield Cleanup Program as a Volunteer. The corporate documents related to JJS Boone LLC are provided in **Appendix B**. The members of JJS Boone are Scott Barone, John Silviano and Tom Chou.

1.2 Requestor Eligibility as a Volunteer

JJS Boone LLC is eligible as a volunteer to the BCP because its "liability arises solely as a result of . . . ownership or operation of or involvement with the site subsequent to the disposal or discharge of contaminants." 6 NYCRR Part 375-3.2. JJS Boone LLC is a contract vendee whose liability arises solely as a result of forthcoming ownership. Neither JJS Boone LLC, nor any of its members has a relationship to the former operators at the Site likely responsible for the historic contamination identified on Site. JJS Boone LLC's relationship to the current operator, Russa Realty Corporation, is limited to a sale agreement with an associated access agreement included in **Appendix G.**

1.3 Property Description Narrative

Location

The Site is situated in an urban area surrounded by commercial and residential properties. The Site comprised of a 0.25-acre parcel with a footprint of approximately 10,906 square feet (SF).

Site Features

The main Site feature is a three-story commercial building with a small rectangular parking area.

Current Zoning and Land Use

The Site is currently zoned R7A with a C2-4 commercial overlay. The surrounding parcels are used for a combination of residential, commercial and light industrial/manufacturing purposes.

Past Use of the Site

Historic Sanborn Fire Insurance maps indicate that the Site has been developed as early as 1915 with a single building, occupying approximately a quarter of the modern property. Rubber cement manufacture has been associated with the Site as early as 1928 under the operations of Chemtex and NY Rubber Cement Co. The 1950 map showed the site improved with the Adhesive Products Facility, covering the entirety of the lot, with the previous structure now a part of the three-story facility. From 1950 to 1993 the property remained utilized by the Adhesive Products Corporation. The prior use of the Site for rubber cement manufacture appears to have led to site contamination. Manufacturing ended in 1992 and an EPA ID was obtained to enable disposal of hazardous wastes (namely solvents) from the Site. The NYSDEC and NYCDEP were involved in the close out of manufacturing operations (refer to Section 3 below) and the Site was assigned Spill Number: 9203740. The NYSDEC closed this Spill on March 21, 2001.

The Site is listed in historic city directories, listed first under Engert Gertrude, beginning in 1962 to 2005, and most recently NYMPCO CORP in 2010 to the time of writing. From 1994 to the present day, the property has been used as a plumbing supply warehouse, operating as NYMPCO CORP.

Site Geology and Hydrogeology

Elevation of the property ranges from +31 to +20 (NAVD-88) feet. The west side of the Site along Boone Avenue has an elevation of 31 feet. Along E 173rd Street, the elevation decreases going east, with the eastern side of the Site having an elevation of 20 feet. Refer to the topographic map included as **Figure 3**.

Previous investigations at the Site identified that the subsurface soil consists of urban fill, which is primarily comprised of brick, and gravel in a brown medium-grained sand matrix. Urban fill was encountered at a depth interval from grade to 15 feet bgs throughout the majority of the Site. Native, brown, medium- to fine-grained silty sand with elements of clay was generally encountered in the deeper borings. Bedrock was encountered underlying the fill layer at varying depths from 4 to 15 feet bgs. This variation is typical of the region, with numerous rock shelfs, outcrops and boulders in the soils.

No groundwater measurements were made as groundwater was not encountered in any of the borings advanced across the Site. Based on USGS mapping, groundwater is inferred to flow to the south east toward the Bronx River. The nearest surface water in the vicinity of the Site is the Bronx River, located approximately 700 feet away. No

surface water or surface water bodies are located on the Site.

Environmental Assessment

Based upon investigation activities conducted by Impact Environmental Closures Inc. ("Impact"), in July 2019, the primary contaminants of concern for the Site are volatile organic compounds (VOCs) including carbon tetrachloride, trichloroethene (TCE) and tetrachloroethene (PCE); semi-volatile organic compounds (SVOCs) including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene. In addition, the metal mercury, was identified in the shallow soils at the Site.

Soil – Concentrations of several semi-volatile organic compounds (SVOCs) were detected in two (2) shallow soil samples (SB-2 and SB-7) in exceedance of their respective New York Codes Rules and Regulations (NYCRR) Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs). These were benzo(a)anthracene (2.9 to 5.7 ppm, the RRSCO is 1 ppm), benzo(a)pyrene (2 to 4.4 ppm, the RRSCO is 1 ppm), benzo(b)fluoranthene (2.5 to 5.9 ppm, the RRSCO is 1 ppm), chrysene (2.5 to 5.1 ppm, the RRSCO is 3.9 ppm), dibenzo(a,h)anthracene (0.69 ppm, the RRSCO is 0.33 ppm) and indeno(1,2,3-cd)pyrene (1.3 to 2.9 ppm, the RRSCO is 0.5 ppm).

Mercury was detected (0.89 ppm) in one (1) shallow soil sample (SB-2) exceeding the NYCRR Part 375 Restricted Residential SCOs (0.81 ppm). Several VOCs, including benzene and PCE, were detected in soil samples throughout the Site, at concentrations in exceedance of their respective NYCRR Part 375 Unrestricted Use SCOs but below the Restricted Residential SCOs.

Groundwater – Groundwater was not encountered in any of the borings; therefore, groundwater wells were not installed.

Soil Vapor – PCE was detected in all eight (8) sub-slab soil vapor samples throughout the Site at concentrations ranging from 36.6 µg/m³ to 2,540 µg/m³. TCE was detected in five (5) sub-slab soil vapor samples at concentrations ranging from 3.41 µg/m³ to 26.8 µg/m³. The highest concentrations of TCE in sub-slab soil vapor were found in the northeastern portion of the property. Carbon tetrachloride was detected in three (3) sub-slab soil vapor samples at concentrations ranging from 13.6 µg/m³ to 45.3 µg/m³. Based on the sub-slab soil vapor sample concentrations above applicable NYSDOH guidance, monitoring/mitigation is required for the elevated concentrations of PCE, TCE and carbon tetrachloride.

See **Figures 4 & 5** for spider maps that depict the following:

- Sample location;
- Date of sampling; and
- Contaminants and concentrations above relevant SCOs and/or DOH Guidance.

1.4 Current Property Operator

Business Name:	Russa Realty Corporation
Contacts:	Steven M. Adler
Address:	390 N Broadway, Suite 200 Jericho, New York 11753
Phone:	(516) 876-1105
Email:	steven@sawlaw.com

2 PROJECT DESCRIPTION

2.1 Project Overview

The development project consists of a new 6-story charter school building. The proposed development will cover approximately 9720 square feet (89%) of the Site with a rear yard area covering the remaining 1186 square feet (11%) of the Site. A partial cellar level will occupy the southern half of the property and will consist of a cafeteria, kitchen and storage, detention tanks, gas/water/electrical meter rooms, and restrooms.

The open yard area will occupy the north eastern corner of the Site, consisting of a concrete slab on grade. At the new building's entry in the south western corner of the Site, there will be minor landscaped areas; however, they will be situated in permanent concrete planters, themselves sitting on the foundation roof slab of the cellar below. The grade level portion of the Site building will include the gymnasium, a conference room, offices and a lobby. The remaining 5 floors will be dedicated to classrooms with an outdoor recreational area on the roof.

Development will involve the demolition of the existing three-story commercial warehouse. Construction of the proposed building's cellar level and foundation elements will require excavation to depths of approximately 15 feet below grade surface relative to Boone Avenue (5 to 15 feet below the sloped surface of East 173rd Street). The elevator pit will require another 5 feet beyond that, being the deepest part of the excavation.

Excavation to depths of approximately 12 feet below grade surface relative to Boone Avenue (2 to 12 feet below the sloped surface of East 173rd Street) will be required across the non-cellar section of the proposed building for the installation of footings and other foundation structures.

The exception to this is the rear yard area, in the north eastern corner of the Site, which will be sloped 1:1 to meet the excavation described above. A total of 3,000 cubic yards of soil/fill and bedrock is expected to be removed throughout the excavation.

Schematic layouts of the proposed Site development are presented in **Appendix C**.

2.2 Benefits to the Community

The current zoning designation is R7A and with a C2-4 overlay. The proposed use is consistent with existing zoning for the property. The development project consists of a new 6-story charter school building. The proposed development will cover approximately 9720 square feet (89%) of the Site with a rear yard area covering the remaining 1186 square feet (11%) of the Site. A partial cellar level will occupy the southern half of the property and will consist of a cafeteria, kitchen and storage, detention tanks, gas/water/electrical meter rooms, and restrooms.

The renovation of the Site delivers benefits on a Site that could have been at risk of becoming a liability to the community due to its historic use as well as the presence of related contamination.

2.3 Project Schedule

Based on an assumed date of January 2020 for execution of the BCP agreement, the following approximate timeline is anticipated for the redevelopment of the Site:

- Submit Citizen Participation Plan *January 2020*
- Submit Remedial Investigation Work Plan (RIWP) *January 2020*
- Implement Remedial Investigation Work Plan (RIWP) *March 2020*
- Submit Remedial Investigation Report (RIR) *April 2020*
- Submit Remedial Action Work Plan (RAWP) *April 2020*
- Implementation of RAWP *July 2020*
- Obtain Certificate of Completion (COC) *September 2021*

3 ENVIRONMENTAL HISTORY

The environmental history of the Site was previously investigated through the review of Federal and State Environmental databases, Sanborn Fire Insurance maps, City Directories, NYC Department of Building records and the NYC Department of Finance databases. The available information is summarized in **Table 1** provided below and discussed in the subsequent sections.

Table 1 – Historical Site Summary

Date	Source	Information
1901	Sanborn Fire Insurance Map	The northern portion of the Site is developed with one (1) brick structure; however, there is no structure present in the 1903 Sanborn Fire Insurance Map
1904	NYCDOB New Building Permit Application	The application was filed March 10, 1904 for construction of two-story family dwelling.
1915	Sanborn Fire Insurance Map	The Site is developed with two (2) buildings: a two-story dwelling on the southern portion and single-story flat to the north.
1928	NYCDOB Alteration Permit	Filed with NYCDOB on August 1, 1928 the permit was issued on January 5, 1929 to owner Ernest Klug for construction of an extension to the existing single-story building. Its proposed use was "as a rubber cement factory."
1931	City Directory	Gertrude Engert
1940	City Directory	Jorgensen A Machnst
1945	NYCDOB Certificate of Occupancy	CO is issued for the Site under "Chemtex Corporation" to utilize a two-story building (consisting of a cellar and first floor) for manufacture of rubber cement.
1947	NYCDOB Certificate of Occupancy	CO is issued for the Site, altering persons accommodated. Use remains unchanged.
1950	Sanborn Fire Insurance Map	The Site is developed with the "Adhesive Products Corporation".
1958	NYCDOB Certificate of Occupancy	CO is issued for the Site detailing a second floor in addition to the first floor and cellar. Use remains unchanged.
1959	NYCDOB Certificate of Occupancy	CO is issued for the Site. Occupancy and use remain unchanged.
1959	RealQuest Property Detail Report	The Site was developed with the current on-site structure.
1961	City Directory	NY RUBBER CEMENT CO INC
1977, 1978, 1979, 1980, 1981, 1983, 1985, 1986, 1989, 1991, 1992 and 1993	Sanborn Fire Insurance Map	The Site is developed with the current structure utilized as the "Adhesive Products Corporation".
2000	City Directory	SAFE MOVE&STGE
2005	City Directory	Caserta Geni Contract New York Mica Products Inc Safe Way Moving & Storage
1994, 1995, 1996, 1998, 2001, 2002, 2003, 2004, 2005, 2006 and 2007	Sanborn Fire Insurance Map	The on-site structure is labeled for use as office and warehouse space.
2010	City Directory	ALESSANDRO PLUMBING INC CASERTA GENERAL CONTRACTING NYMPCO CORP SAFE WAY MOVING & STORAGE
2014	City Directory	CASERTA GENERAL CONTRACTING DIGNITY UNIVERSAL LLC NYMPCO CORP

3.1 Underground Storage Tanks

The Site is included in a listing on the NYSDEC Chemical Bulk Storage (CBS) database under Site Number 2-000246. The listing identified nine (9) 550-gallon USTs and six (6) 1,500-gallon USTs. All tanks listed a status of "Closed – In Place". In Addition, the Site is listed on the NYSDEC Petroleum Bulk Storage (PBS) database under Site Number 2-600688. The listing identified three (3) 275-gallon USTs, three (3) 550-gallon USTs and one (1) 5,000-gallon UST. With the exception of one (1) 275-gallon UST, with a status of "Out of Service", all tanks are listed with a status of "Closed – Removed".

Further, following review of available drawings and records at the New York City Department of Buildings (NYCDOB) Bronx office, Impact was able to obtain copies of plans showing twenty-four (24) different tanks to be installed at the Site. **Figure 11** summarizes the information in these plans. Refer to the section below for further information on the NYCDOB planning records.

During the OER Remedial Investigation activities conducted by Impact Environmental Closures Inc. ("Impact"), in July 2019, a geophysical survey utilizing ground penetrating radar (GPR) was conducted across the accessible areas of the Site to investigate for the presence of potential buried utilities, obstructions, and/or USTs. The survey revealed no evidence of USTs. **Figure 6** details the areas where the GPR survey was able to be performed. Given the obstructions present at the time of the survey, Impact cannot guarantee no tanks are present beneath the Site.

3.2 NYSDEC Spill Incident Database

An unknown amount of an unknown petroleum was spilled at the Site on June 9, 1992 and the Site was assigned Spill Number: 9203740. The NYSDEC closed this Spill on March 21, 2001.

3.3 NYCDEP Inspection Records

Following a FOIL request submitted by Impact in October 2019, the New York City Department of Environmental Protection (NYCDEP) provided copies of inspection reports from 1992, detailing the plant closure activities at the Site following the shutdown of Adhesives Products Corporation. The April 14, 1992 inspection report identified "about 300" 55-gallon drums as being present at the property. It is likely that these were removed in the year following, leading to the Site's registration as a large quantity generator as detailed in the subsequent section. The NYCDEP FOIL Response is included in **Appendix D**.

3.4 NYCDOB Planning Records

Following a FOIL request submitted by Impact in November 2019, the New York City Department of Buildings provided a limited response, directing Impact to utilize the DOB BIS (Building Information System) website. The BIS website did not have any plans or drawings related to the former manufacturing use of the Site. An in-person visit

was made to the Records Room at the NYCDOB Bronx Office. There, Impact was able to obtain copies of plans showing twenty-four (24) different tanks to be installed at the Site. **Figure 11** summarizes the information in these plans. Building permit applications were also obtained from the DOB, associating rubber cement manufacture with the Site as early as 1928. The NYCDOB FOIL Response, obtained plans and permits are included in **Appendix D**.

3.5 RCRA Activity

The Site address is identified in 2007, 2006 and 1999 as a RCRA Handler: Non-Generator (NG) of hazardous waste and in 1992 as a large quantity generator (LQG) of hazardous waste under EPA ID NYD001360031. The Site is identified as having manifests for waste codes, D002 (corrosive waste), D003 (reactive waste), D005 (barium), D008 (lead), F001 (spent halogenated solvents used in degreasing including PCE, TCE, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride and chlorinated fluorocarbons), F002 (spent halogenated solvents including PCE, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1,1,2-trichloroethane), F003 (spent non-halogenated solvents including xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol) and F005 (spent non-halogenated solvents including toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane).

3.6 E-Designation

The Site was assigned E-designation number E-277 due to hazardous waste, air and noise concerns. Lots with E-Designations may not be issued a building permit allowing: 1) any development; 2) an enlargement, extension or change of use involving residential or community facility use; or 3) any enlargement that disturbs the soil on the lot until the NYC Building Department is provided with a report from NYC OER or NYCDEP stating that the environmental E-Designation requirements for the lot have been met.

3.7 Summary of Previous Investigations

Equity Environmental Engineering Phase I Environmental Site Assessment, Dated December 18, 2018

A Phase I Environmental Site Assessment (ESA) dated December 18, 2018 was prepared by Equity Environmental Engineering. Within that report the following on-Site recognized environmental condition (REC) was identified:

- An E Designation (E-277) has been placed on the Subject Property. Specifically, (E-277) has been placed on the Subject Property for hazardous waste, air and noise.

In addition, the Equity Environmental Engineering listed a possible Vapor Encroachment Condition (VEC) at the Site. A VEC is the presence or likely presence of chemical of concern vapors in the subsurface of the target property caused by the release of vapors from contaminated soil and/or groundwater either on or near the target property. The report stated:

- The EDR Vapor Encroachment database identified various VECs (Vapor Encroachment Conditions) within 1/10 of a mile of the Subject Property. The findings include the [E] Designations for hazardous materials, reported spills, and a manufactured gas plant were identified within 1/10th of a mile of the Subject Property. Due to the identified sites, a Vapor Encroachment cannot be ruled out.

Impact Environmental Closures, Inc. Remedial Investigation Report, Dated August 28, 2019

A Remedial Investigation Report (RIR), dated August 28, 2019, was prepared for the Site by Impact to summarize the nature and extent of contamination at the Site and provide sufficient information to establish remedial action objectives. The OER RIR revealed the following Areas of Concern (AOCs):

- Elevated chlorinated VOC concentrations in soil vapor beneath the Site.
- Presence of urban historic fill ranging from grade to 15 feet bgs which has been found to contain several contaminants (including VOCs, SVOCs, metals, pesticides and PCBs) above relevant guidelines.
- Past use of the Site as an adhesive manufacturer. The manufacturer was listed as a RCRA Large Quantity Generator for halogenated degreasing solvents.
- Closed and removed tanks (all registered to the Adhesive Products Corporation):
    - PBS 2-600688: 1 out of service and 6 removed tanks.
    - CBS 2-000246: 16 closed-in-place tanks (chemical storage tanks including toluene, MEK, ethyl acetate and 2-propanone).
- Historic use of surrounding properties for auto repairs/garages.

Impact Environmental Closures, Inc. Waste Characterization Report, Dated July 30, 2019

During the Remedial Investigation, additional samples were collected as required by potential disposal/beneficial reuse facilities. A Waste Characterization Report, dated July 30, 2019, was prepared for the Site by Impact to summarize the quality of the soils at the Site and provide sufficient information for facility approval to be issued. The results were consisted with those of the OER RI.

AmeriGEO Preliminary Geotechnical Investigation Report, Dated April 2, 2019

A Geotechnical Investigation Report, dated April 2, 2019, was prepared for the Site by AmeriGEO, Inc. to summarize the geotechnical evaluation and analysis required for the proposed construction and as per the NYC Building Code 2014. Three (3) geotechnical borings were advanced to bedrock at the Site (the deepest being 21 feet below grade surface), and consistent with the OER RI, groundwater was not observed in any of these borings.

All the reports discussed above have been included in **Appendix E**.

3.8 Summary of Potential Contamination and Environmental Conditions

From the history detailed above, rubber cement manufacture has been associated with the Site as early as 1928 mostly under the Adhesive Products Corporation but also as NY Rubber Cement Co and Chemtex. From the NYS Bulk storage database, sixteen (16) chemical USTs and seven (7) petroleum USTs were registered at the Site. Further, following review of available drawings and records at the New York City Department of Buildings (NYCDOB) Bronx office, Impact was able to obtain copies of plans showing twenty-four (24) different tanks to be installed at the Site. **Figure 11** summarizes the information in these plans.

These operations involved both chlorinated and non-chlorinated solvents which, from the July 2019 OER RI, have impacted the soils and soil vapor at the Site. Due to the relatively shallow bedrock and apparent depth of the water table, groundwater does not seem to have been affected. The July 2019 OER RI also indicated historic use of surrounding properties (auto repair shop/garages) as potential sources of contamination.

3.9 Cost Analysis for Potential Environmental Conditions

The projected remedial costs for this project are estimated and based on NYSDEC Hazardous Waste Site/Brownfield Cleanup Program requirements, and include the costs associated with BCP Application, Community Participation Plan, Remedial Investigation, Source removal/excavation, Engineering Controls via installation of an active SSD System, reporting and groundwater monitoring. A 10 percent contingency was added to the overall cost to cover potential areas of uncertainty. Projected remedial costs by task are detailed in **Table 2** below.

Table 2 – Cost Analysis

SCOPE	COST ESTIMATE
NYSDEC BCP Application, CPP, RI Work Plan, Consulting Fees	$ 35,000
Remedial Investigation including PFOS, 1,4-Dioxane, Receptor Evaluation, Remedial Alternative Evaluation, Data Validation, QAPP, Remedial Investigation Report, Remedial Action Work Plan, Health and Safety Plan	$ 75,000
Remedial Actions - Underground Storage Tank Removal (unknown how many remain onsite, assumes 20 tanks to be removed)	$ 65,000
Remedial Actions – Vapor Barrier and Active SSDS Installation (includes OM&M for 5 Years)	$ 165,000
Final Engineering Report (FER), Site Management Plan (SMP), Institutional Controls (Deed Restriction)	$ 35,000
Compliance Inspections and Reporting, Periodic Review Report, Groundwater Testing, Indoor Air and Soil Vapor Testing (5 Years), System Conversion to Passive, Decommissioning/Well Abandonment	$ 122,500
Other Costs - Cost of PLL Insurance, Legal Fees - 5 Years	$ 200,000
Environmental Remediation Contingency - 10%	$ 81,500
TOTAL COST ESTIMATE	**$ 779,000**

3.10 Previous Owners and Operators

Information regarding previous operators can be found in **Table 1** – Historical Site Summary (see Section 3 - Environmental History). Available information regarding the previous operators of the Site is shown in **Table 4** (below). Information regarding past operators was obtained from the property owner/operator, Sanborn Fire Insurance maps, Certificates of Occupancy and from telephone directory listings. Available information regarding the previous owners of the Site are shown in **Table 3** (below). Information regarding ownership of the property was obtained from online property records maintained by the NYC Department of Finance under the Automated City Register Information System (ACRIS). There is no relationship between the Requestor and previous owners and operators, other than the Contract of Sale between the Requestor and the current property owner, Russa Realty Corp, dated November 19, 2018. As of the fourth amendment to the that contract, which is included in **Appendix B**, the scheduled date for closing on the property is May 1, 2020. Prior to closing, access to the property by the requestor will be done so as per the Access Agreement, which is included as **Appendix G**.

To the extent available, below is the last known contact information for the previous owners and operators at the Site.

Table 3 – Previous Property Owners (from deeds held on ACRIS)

Date of Ownership	Name of Party	Last Known Address	Last Known Telephone Number	Relationship to Requestor
11/2/2001	Russa Realty Corp. c/o NY Mica Products	890 Garrison Avenue, Bronx, NY 10474	516-876-1105 (Law Offices of Steven M. Adler, PLLC)	Access Agreement
12/13/1994	West Boone Realty Corp. c/o Clinton Hope	3362 Mitchell Road, Ellenwood, GA 30294	Unknown	None
11/9/1973	Maury P. and Cathleen Medwick	1000 Fenimore Road, Larchmont, NY 10538	Unknown	None
2/20/1969	Lucille J. Medwick	1000 Fenimore Road, Larchmont, NY 10538	Unknown	None
Unknown	Anne Mintz	870 Pirates Cove, Mamaroneck, NY	Unknown	None
Unknown	Ernest Klug	1660 Boone Avenue, Bronx, NY	Unknown	None

Table 4 – Previous Property Operators

Start of Operations	Cessation of Operations	Name of Party	Last Known Address	Last Known Telephone Number	Relationship to Requestor
11/2/2001	-	Russa Realty Corp. c/o NY Mica Products	890 Garrison Avenue, Bronx, NY 10474	516-876-1105 (Law Offices of Steven M. Adler, PLLC)	Access Agreement
12/13/1994	11/2/2001	West Boone Realty Corp. c/o Clinton Hope	3362 Mitchell Road, Ellenwood, GA 30294	Unknown	None
Circa 1940	Circa 1991	Adhesive Products Corporation	1660 Boone Avenue, Bronx, NY 10460	Unknown	None
1928, likely earlier.	Chemtex Corp and NY Rubber Cement Co appear to operate as Adhesive Products Corporation	Chemtex Corp and NY Rubber Cement Co	1660 Boone Avenue, Bronx, NY 10460	Unknown	None

Available information related to the financial viability of previous owners or operators of the facility or property is limited to the bankruptcy search for previous owner/operator Russa Realty Corporation, included as the last page of the Title Report in **Appendix H.**

4 CONTACT LIST INFORMATION

The following sub-sections provide the minimum contact list information as required in the BCP application form.

4.1 Government Contacts

Bill De Blasio
Mayor of New York City
City Hall
New York, New York 10007
(212) 788-3300

Marisa Lago
NYC Planning Commission Chairperson
120 Broadway
31st Floor
New York, New York 10271
Phone: (212)-720-3300

Ruben Diaz Jr.
Bronx Borough President
851 Grand Concourse, 3rd Floor
Bronx, New York 10451
Phone: (718) 590-3500

Gloria S. Alston
Chairperson
Bronx Community Board 3
1426 Boston Road
Bronx, New York 10456
(718)- 378-8054

Rafael Salamanca Jr.
NYC Council Member
NYC Council, 17th District
1070 Southern Boulevard
Bronx, New York 10459
(718) 402-6130

Werner R. deFoe
Bronx Borough Commissioner
New York City Department of Buildings
1932 Arthur Avenue, 5th Floor
Bronx, New York 10457
(718) 960-4700

4.2 Adjacent Property Owner Contacts

The following adjoining property owners were identified. Owners were identified by address using the New York City Department of Buildings (NYCDOB) DoITT City Map in conjunction with New York City Department of Finance (NYCDOF) Automated City Register Information System (ACRIS) records.

1. **1029 East 173rd Street** (Block 3015 Lot 49)
   Bronx, New York 10460
   Owner: NYC Department of Sanitation
   Owner Address: 125 Worth Street, New York, New York 10013

2. **1680 Boone Avenue** (Block 3015 Lot 3)
   Bronx, New York 10460
   Owner: 1674 Farms Realty LLC
   Owner Address: 3106 Wissman Avenue, Bronx, New York 10465

3. **1560 Boone Avenue** (Block 3014 Lot 15)
   Bronx, New York 10460
   Owner: Samaritan-Compass III & IV Housing Dev Fund Corp
   Owner Address: 138-02 Queens Boulevard, Briarwood, New York 11435

4. **1003 East 173rd Street** (Block 3009 Lot 25)
   Bronx, New York 10460
   Owner: Boone Avenue Realty Corp
   Owner Address: 1006 East 173rd Street, Bronx, New York 10460

5. **1661 Boone Avenue** (Block 3010 Lot 46)
   Bronx, New York 10460
   Owner: 1661 Boone Avenue Realty Corporation
   Owner Address: 1661 Boone Avenue, Bronx, New York 10460

6. **1685 Boone Avenue** (Block 3010 Lot 40)
   Bronx, New York 10460
   Owner: DNZ, LLC
   Owner Address: 1202 Astoria Boulevard, Long Island City, New York 11102

4.3 Adjacent Property Tenants

The following adjoining property tenants were identified.

1. **1029 East 173rd Street** (Block 3015 Lot 49)
   Bronx, New York 10460
   Tenant: NYC Department of Sanitation
   Tenant Address: 125 Worth Street, New York, New York 10013

2. **1680 Boone Avenue** (Block 3015 Lot 3)
   Bronx, New York 10460
   Tenant: Gustiamo (Food Importer)
   Tenant Address: 1715 West Farms Road, Bronx, New York 10460

3. **1560 Boone Avenue** (Block 3014 Lot 15)
   Bronx, New York 10460
   Tenant: N/A – New mixed residential/commercial building under construction.
   Tenant Address: N/A

4. **1003 East 173rd Street** (Block 3009 Lot 25)
   Bronx, New York 10460
   Tenant: MNG Automotive
   Tenant Address: 1563 Boone Avenue, Bronx, New York 10460

5. **1661 Boone Avenue** (Block 3010 Lot 46)
   Bronx, New York 10460
   Tenant: A&G Gates & Rolling Doors
   Tenant Address: 1661 Boone Avenue, Bronx, New York 10460

6. **1685 Boone Avenue** (Block 3010 Lot 40)
   Bronx, New York 10460
   Tenant: Unknown
   Tenant Address: Unknown

4.4 Local News Media

The Bronx Times-Reporter
3602 East Tremont Avenue, Suite 205
Bronx, NY 10465
(718) 260-4597

New York Times
620 Eighth Ave.
New York, NY 10018

New York Daily News
450 W. 33 Street
New York, NY 10001

New York Post
1211 Avenue of the Americas
New York, NY 10036-8790

Daily News Bronx Editorial Bureau
1892 Eastchester Rd,
Bronx, NY 10461

Bronx News
135 Dreiser Loop,
Bronx, NY 10475

Bronx Times
3602 East Tremont Avenue
Suite 205
Bronx, NY 10465

4.5 Public Water Supplier

New York City Department of Environmental Protection
Bureau of Water Supply
1250 Broadway - 8th Floor
Manhattan, NY 10001

4.6 Requested Contacts

No requests have been made at this time.

4.7 Schools, Childcare Facilities and Hospitals

The following Schools and Daycare facilities were identified within a one-half mile radius of the project Site (see **Figure 7**):

Childcare Facilities

1. Tremont Crotona Day Care Center, Inc
   1555 East 174th Street
   Bronx, New York 10472

2. East Tremont Head Start Alumni Day Care Centers, Inc.
   1244 Manor Avenue
   Bronx, New York 10472

3. Bright Side Academy, Inc.
   1334 Louis Nine Boulevard
   Bronx, New York 10459

4. The Children's Aid Society
   1515 Southern Boulevard
   Bronx, New York 10460

5. Tremont Monterey Day Care Center, Inc.
   887 Crotona Park North
   Bronx, New York 10460

6. Tremont Crotona Day Care Center, Inc
   1600 Crotona Park East
   Bronx, New York 10460

7. LITTLE SCHOLARS EARLY DEVELOMENT CENTER, LLC
   850 Jennings St
   Bronx, NY10459

8. Bronx Little School
   1300 BOYNTON AVENUE
   Bronx, NY10472

Schools

1. Fairmount Neighborhood School, Public School 50 and Clara Barton
   1550 Vyse Avenue
   Bronx, New York 10460

2. East Bronx Academy for the Future
   1716 Southern Boulevard
   Bronx, New York 10460

3. The Cinema School
   1551 East 172nd Street
   Bronx, New York 10472

4. The Metropolitan Soundview High and Monroe Academy for Business/Law
   1300 Boynton Avenue
   Bronx, New York 10472

5. Bronx Coalition Community Hs
   1300 BOYNTON AVENUE
   Bronx, NY10472

6. H S World Cultures
   1300 BOYNTON AVENUE
   Bronx, NY10472

7. Public School 195, Public School 196 and Public School 197
   1250 Ward Avenue
   Bronx, New York 10472

8. Fannie Lou Hammer Freedom High School
   1021 Boone Avenue
   Bronx, New York 10460

9. Public School 811
   1434 Longfellow Avenue
   Bronx, New York 10459

10. Public School 66, School of Higher Expectations and Fannie Lou Hammer Middle School
    1001 Jennings Street
    Bronx, New York 10460
11. JHS 098 Herman Ridder
    1619 BOSTON ROAD
    Bronx, NY10460

12. **PS 214**
    1970 WEST FARMS ROAD
    Bronx, NY10460

Hospitals

None.

4.8 Document Repository

The following locations are identified to serve as repositories for public access to documents generated under the BCP program.

New York Public Library – West Farms Library
2085 Honeywell Avenue
Bronx, NY, 10460
(718) 367-5376
Virginia Quinones - Branch Librarian
virginiaquinones@nypl.org

Hours:

Sunday:	closed
Monday:	10:00 am - 7:00 pm
Tuesday:	10:00 am - 7:00 pm
Wednesday:	10:00 am - 7:00 pm
Thursday:	10:00 am - 7:00 pm
Friday:	10:00 am - 5:00 pm
Saturday:	10:00 am - 5:00 pm

On December 4, 2019, an email was directed to Virginia Quinones, the branch librarian, requesting that the West Farms Library be able to act as a document repository for the project. On December 5, 2019, Mrs Quinones responded, stating that the West Farms Library is willing to host the repository documents. See **Appendix F** for copies of email correspondence.

New York Public Library – Morrisania Public Library (on behalf of Bronx Community Board 3)
610 East 169th Street
Bronx, New York 10456
718-861-0372
Mr. Colbert Nembhard – Branch Librarian
colbertnembhard@nypl.org

Communication with the Bronx Community Board 3 was attempted on December 5, 2019 with a response received from John Dudley, District Manager for the Community Board on December 11, 2019. Per Mr. Dudley's response, Impact was directed to contact the Community Board's nominated document repository, the Morrisania Public Library. The branch librarian, Mr. Colbert Nembhard, confirmed in a written email response on December 12, 2019 that while the library no longer accepts physical copies of reports for public review it is able to host digital copies on its website. See **Appendix F** for copies of email correspondence.

5 LAND USE FACTORS

5.1 Current Land Use

From 1994, the property has been used as a plumbing supply warehouse, operating as NYMPCO CORP. At the time of writing, the plumbing supply warehouse is ceasing operation and the property is being vacated for the upcoming sale.

5.2 Surrounding Land Use

The Site is located in the Crotona Park East/West Farms section of the South Bronx. Crotona Park East is bound from the Cross-Bronx Expressway to the north, Bronx River to the east, East 167th Street to the south and Crotona-Prospect Avenue to the west. Historically, Crotona Park East consisted of tenement buildings, multi-unit homes, vacant lots, and public housing units. The Crotona Park East / West Farms Rezoning Resolution was issued in 2011 to encourage the transformation and revitalization of the derelict and underutilized area through redevelopment of residential and commercial retail properties. There are no sensitive receptors such as schools, hospitals, or day care facilities within a 250-foot or 500-foot radius of the Site.

Surrounding land use (**Figure 1**) consists mainly of commercial properties. **Figure 12** shows the property boundary and adjacent properties. The northern adjacent property maintains a commercial building with a parking lot, currently occupied by a food import company. Immediately south of the Site is East 173rd Street followed by new construction consisting of mixed residential and commercial retail space. East of the Site is a NYC Department of Sanitation garage followed by West Farms Road then the Sheridan Expressway followed by Starlight Park. Boone Avenue is located immediately west of the Site followed by two (2) commercial buildings used as an auto body repair shop and a metal fabrication shop.

5.3 Development Patterns & Zoning Laws

The Site is located entirely in an R7A residential district, with a C2-4 commercial overlay within 100 feet of East 173rd Street, within an Inclusionary Housing Designated Area. The portion of the Site in the C2-4 district overlay has a maximum commercial floor area ratio (FAR) of 2.0. The entire Site has a maximum community facility FAR of 4.0, and a maximum residential FAR of 3.45. The residential FAR can be increased to 4.6 with the provision of the requisite amount of affordable housing. Quality Housing regulations are mandatory in R7A districts, which typically produce high lot coverage, and seven- to eight-story apartment buildings. The New York City Department of City Planning has assigned the Site a restrictive “E” designation for hazardous materials, air and noise concerns (E-277, City Environmental Quality Review [CEQR] No. 10DCP017X).

The area encompassing the Site was rezoned in 2011 from a manufacturing district (M1-1) to a residential district with commercial overlays in order to recognize the existing mixed-use character of the area while formally

permitting residential uses alongside commercial uses, increasing housing availability and activating a manufacturing-based streetscape along Boone Avenue. The rezoning action was approved alongside a Large Scale General Development, of which the Site is not designated a part.

5.4 Environmental Zone

In October 2003, the New York State Brownfield Cleanup Program was signed into law under Title 14 of the ECL, Article 27. The law directed New York State's economic development agency, Empire State Development (ESD) to designate Environmental Zones in which tax credits offered under the BCP are enhanced. The subject Site is within Census Tract 161 which is designated as an Environmental Zone (see **Figure 8**).

5.5 Environmental Justice Area

As shown on **Figure 9**, the property is located within a potential environmental justice area. The NYSDEC defines a potential environmental justice area as a "minority or low-income community that may bear a disproportionate share of the negative environmental consequences resulting from industrial, municipal, and commercial operations or the execution of federal, state, local, and tribal programs and policies.

Environmental justice means the fair treatment and meaningful involvement of all people regardless of race, color, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies. Fair treatment means that no group of people, including a racial, ethnic, or socioeconomic group, should bear a disproportionate share of the negative environmental consequences resulting from industrial, municipal, and commercial operations or the execution of federal, state, local, and tribal programs and policies.

5.6 Site Geography and Geology

The Site is located within the Manhattan Prong Physiographic Provence. The elevation of the Site, as presented on the United States Geologic Survey (USGS), Central Park Quadrangle Map, is approximately 30 feet above mean sea level (amsl). The **Site Topographic Map** is included as **Figure 3**. The ground surface within the Site is generally flat, however there is an approximately ten-foot change in grade along 173rd Street, sloping down from Boone Avenue towards West Farms Road. Elevation of the sidewalk around the property ranges from +31 to +20 (NAVD-88) feet.

Previous investigations at the Site identified that the subsurface soil consists of urban fill, which is primarily comprised of brick, and gravel in a brown medium-grained sand matrix. Urban fill was encountered at a depth interval from grade to 15 feet bgs throughout the majority of the Site. Native, brown, medium- to fine-grained silty sand with elements of clay was generally encountered in the deeper borings. Bedrock was encountered underlying the fill layer at varying depths from 4 to 15 feet bgs. This variation is typical of the region, with numerous rock shelfs, outcrops and boulders in the soils around.

No groundwater measurements were made as groundwater was not encountered in any of the borings advanced across the Site, to date. Based on USGS mapping, groundwater is inferred to flow to the south east toward the Bronx River. The nearest surface water in the vicinity of the Site is the Bronx River, located approximately 700 feet away. No surface water or surface water bodies are located on the Site.

Underlying groundwater in this area of the Bronx is not used for potable supply purposes. Potable water is provided to the area by the New York City Department of Environmental Protection.

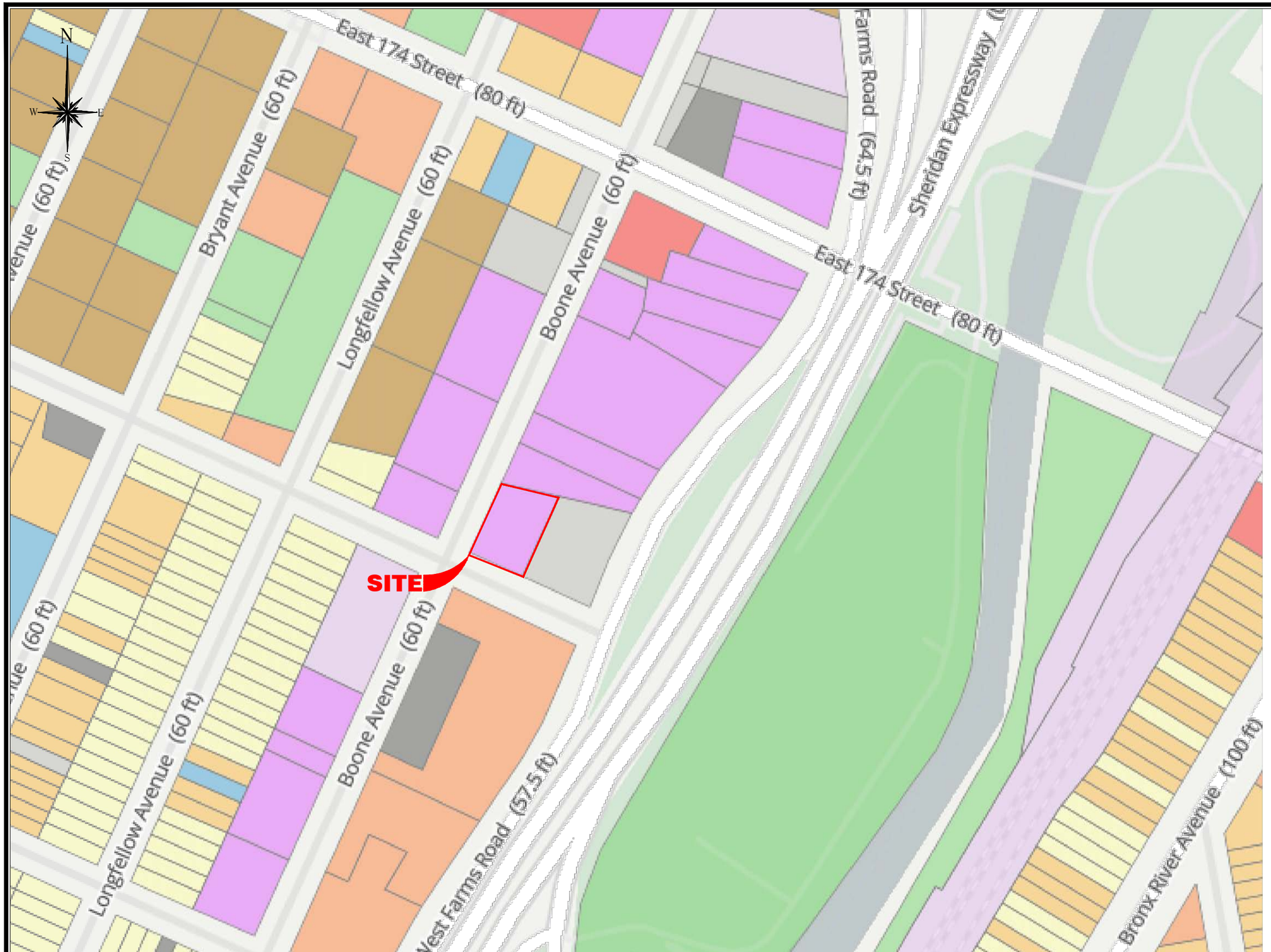
The Site and the surrounding neighborhood to the west, south and north are located in a Zone X area, an area of minimal flood hazards, and an area deemed to be outside the 0.2% annual flood hazard chance floodplain (see **Figure 10**). Approximately 110-feet to the west of the Site is a flood zone (FEMA Map 3604970084F), with several special flood hazard areas.

5.7 Groundwater Vulnerability

During the July 2019 RI, groundwater was not encountered in any of the borings prior to refusal or target depth. Given the elevation of the Site and absence of groundwater in the geotechnical borings made into the bedrock at depths beyond the planned development, on-site groundwater is not considered to be a media of concern and has not been investigated.

5.8 Community Master Plan(s)

The Site is in a Coastal Zone. The Coastal Zone designation subjects the Site to the New York City Waterfront Revitalization Program. The programs establish New York City's policies for waterfront planning, preservation and development projects, but applies only to discretionary actions. Currently, no other comprehensive community master plans, designated Brownfield Opportunity Area plans or other known adopted land use plans are in place that include the area encompassing the Site.



Zoning and Land Use

Tax Lots

- One & Two Family Buildings
- Multi-Family Walk-Up Buildings
- Multi-Family Elevator Buildings
- Mixed Residential & Commercial Buildings
- Commercial & Office Buildings
- Industrial & Manufacturing
- Transportation & Utility
- Public Facilities & Institutions
- Open Space & Outdoor Recreation
- Parking Facilities
- Vacant Land
- Other

IMPACT ENVIRONMENTAL
170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800 FAX (631) 269-1599

1000 PAGE AVENUE
LYNDHURST, NEW JERSEY 07071

TITLE:

SITE LOCATION & SURROUNDING LAND USE MAP

SITE:

1660 BOONE AVENUE
BRONX, NY
BLOCK 3015, LOT 1

SHEET NO.
FIGURE 1

PROJECT NO.	13747
DESIGNED BY:	RD
DRAWN BY:	RD
CHECKED BY:	KK:
DATE:	12/04/2019
SCALE:	N.T.S

REVISIONS	
NO:	DATE:

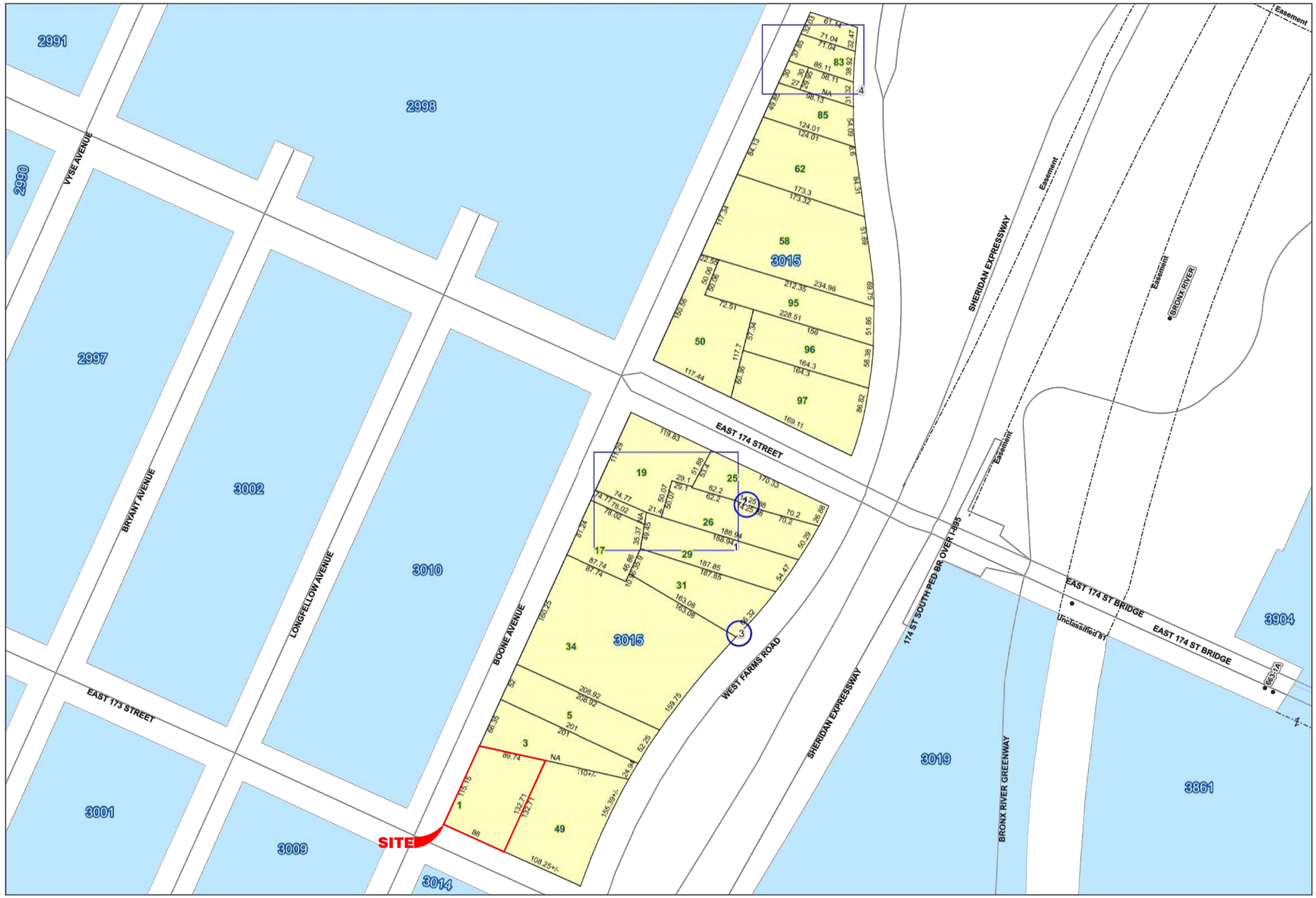
NOTES:
1. BASE MAP TAKEN FROM NYCDCP ONLINE TOOL "ZOLA." ACCESSED 06/24/2019.

NYC Finance

NYC Digital Tax Map

Effective Date : 11-08-2019 11:31:18
End Date : Current

Bronx Block: 3015



Legend

- Streets
- Miscellaneous Text
- Possession Hooks
- Boundary Lines
- Lot Face Possession Hooks
- Regular
- Underwater
- Tax Lot Polygon
- Condo Number
- Tax Block Polygon

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LYNDHURST, NEW JERSEY 07071

TITLE:

NEW YORK CITY TAX MAP

SITE:

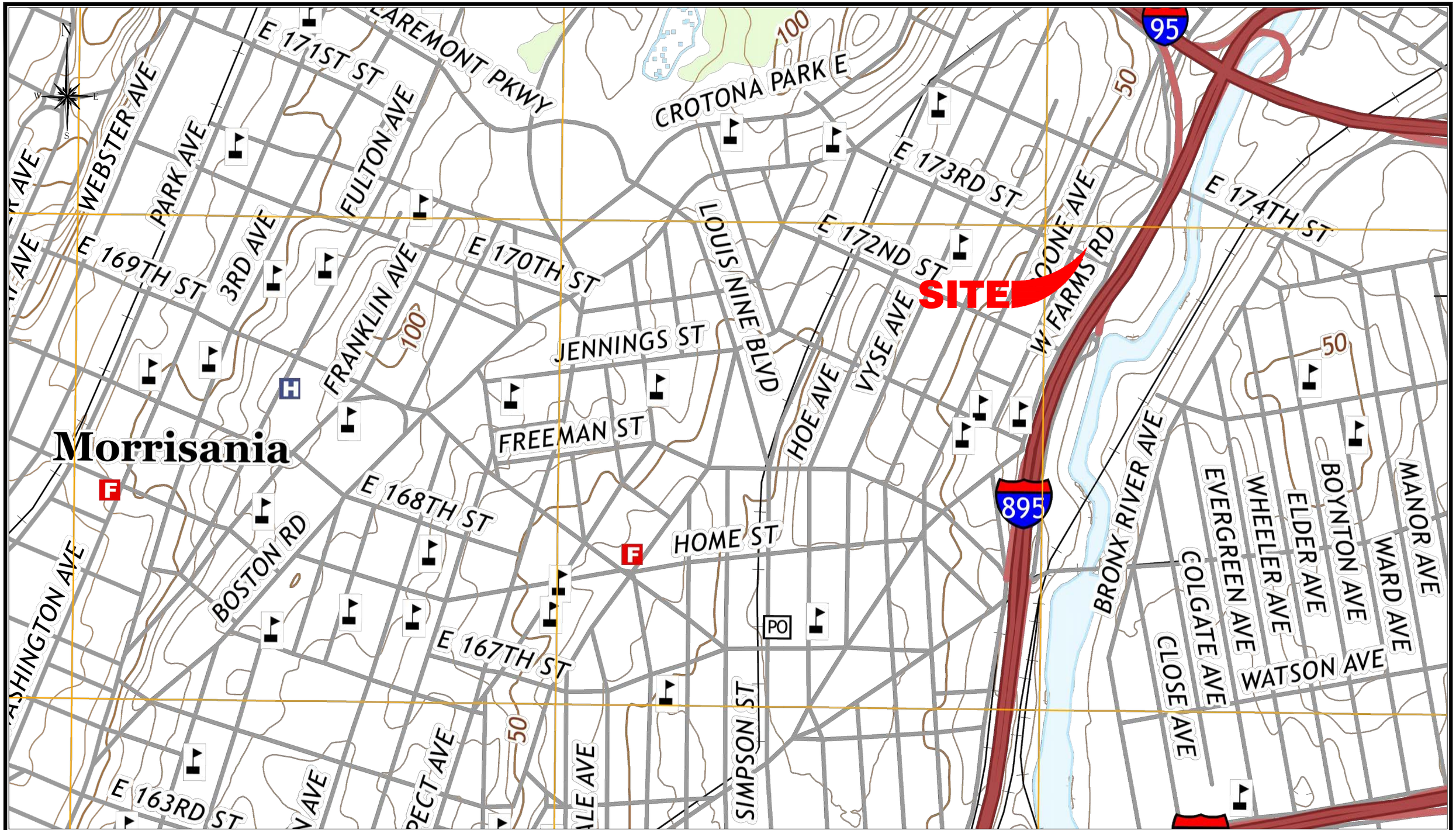
1660 BOONE AVENUE
BRONX, NY
BLOCK 3015, LOT 1

SHEET NO.
FIGURE 2

PROJECT NO.	13747
DESIGNED BY:	RD
DRAWN BY:	RD
CHECKED BY:	KK:
DATE:	12/04/2019
SCALE:	N.T.S

REVISIONS	
NO:	DATE:

NOTES:
1. BASE MAP TAKEN FROM NYCDCP ONLINE TAX MAP LIBRARY. ACCESSED 12/04/2019.



IMPACT ENVIRONMENTAL
170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800 FAX (631) 269-1599

1000 PAGE AVENUE
LYNDHURST, NEW JERSEY 07071

TITLE:

SITE TOPOGRAPHIC MAP

SITE:

1660 BOONE AVENUE
BRONX, NY
BLOCK 3015, LOT 1

SHEET NO.
FIGURE 3

PROJECT NO.	13747
DESIGNED BY:	RD
DRAWN BY:	RD
CHECKED BY:	KK:
DATE:	12/04/2019
SCALE:	N.T.S

REVISIONS	
NO:	DATE:

NOTES:
1. BASE MAP TAKEN FROM USGS TOPOGRAPHICAL MAP CENTRAL PARK QUADRANGLE (7.5 MINUTE SERIES, SCALE 1:24 000) DATED 2016.

SB-7 (0-2) - 7/15/2019		UUSCO	RRSCO
Total VOCs	0.477	-	-
Benzo-a-Anthracene	**5.7**	*1*	*1*
Benzo-a-Pyrene	**4.4**	*1*	*1*
Benzo-b-Fluoranthene	**5.9**	*1*	*1*
Benzo-k-Fluoranthene	**2.1**	*0.8*	*3.9*
Chrysene	**5.1**	*1*	*3.9*
Dibenzo-a,h-Anthracene	**0.69**	*0.33*	*0.33*
Indeno(1,2,3-cd)Pyrene	**2.9**	*0.5*	*0.5*
Total SVOCs	58.498	-	-
Lead, Pb	**167**	*63*	*400*
Mercury, Hg	**0.284**	*0.18*	*0.81*
Zinc, Zn	**204**	*109*	*10,000*
SB-7 (4-6) - 7/15/2019		**UUSCO**	**RRSCO**
Total VOCs	0.01	-	-
Total SVOCs	2.531	-	-

SB-5 (0-2) - 7/15/2019		UUSCO	RRSCO
Total VOCs	0.006	-	-
Total SVOCs	4.445	-	-
Lead, Pb	**108**	*63*	*400*
Zinc, Zn	**142**	*109*	*10,000*
SB-5 (4-6) - 7/15/2019		**UUSCO**	**RRSCO**
Total VOCs	0.009	-	-
Total SVOCs	ND	-	-

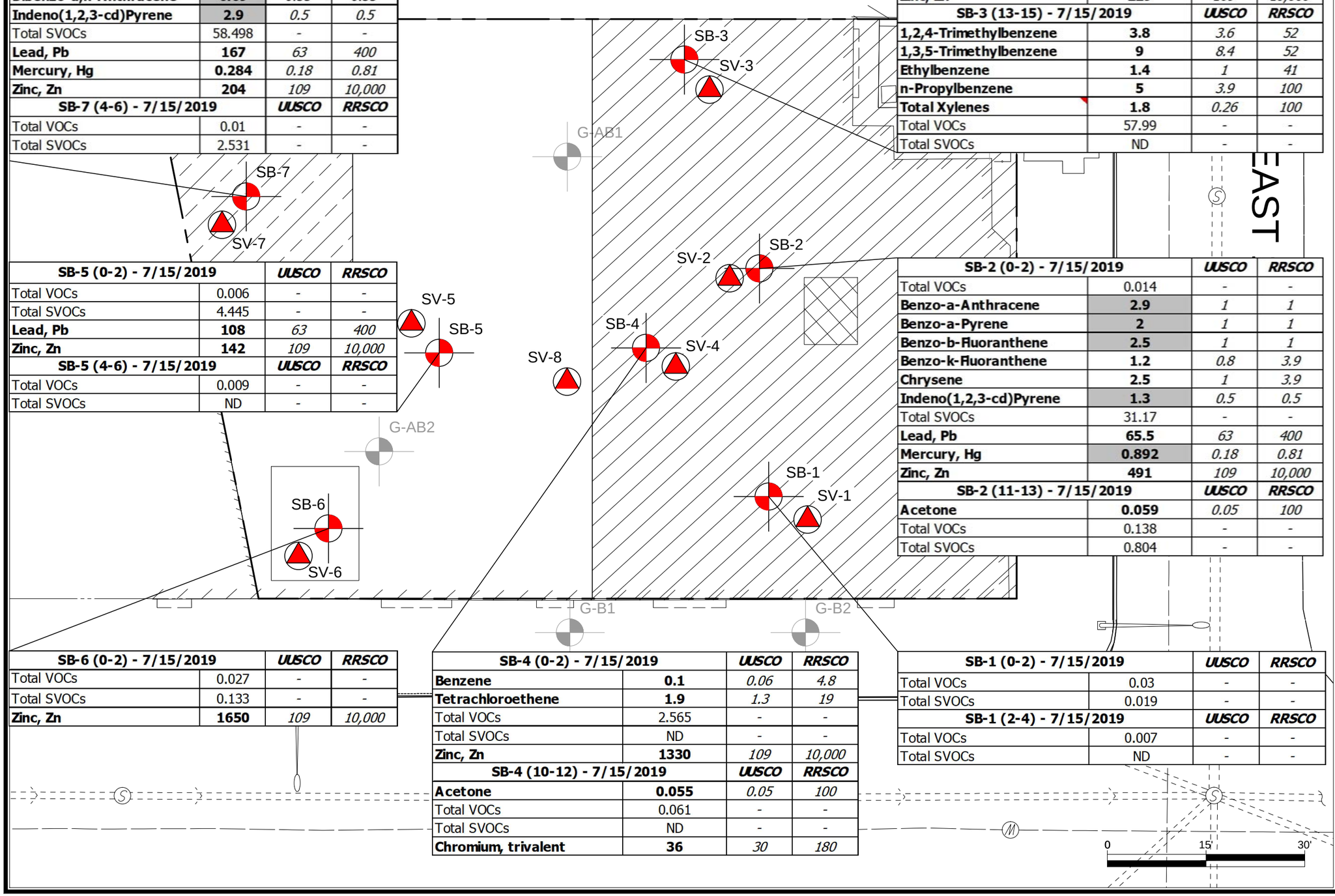
SB-6 (0-2) - 7/15/2019		UUSCO	RRSCO
Total VOCs	0.027	-	-
Total SVOCs	0.133	-	-
Zinc, Zn	**1650**	*109*	*10,000*

SB-4 (0-2) - 7/15/2019		UUSCO	RRSCO
Benzene	**0.1**	*0.06*	*4.8*
Tetrachloroethene	**1.9**	*1.3*	*19*
Total VOCs	2.565	-	-
Total SVOCs	ND	-	-
Zinc, Zn	**1330**	*109*	*10,000*
SB-4 (10-12) - 7/15/2019		**UUSCO**	**RRSCO**
Acetone	**0.055**	*0.05*	*100*
Total VOCs	0.061	-	-
Total SVOCs	ND	-	-
Chromium, trivalent	**36**	*30*	*180*

SB-3 (0-2) - 7/15/2019		UUSCO	RRSCO
Total VOCs	0.012	-	-
Total SVOCs	2.531	-	-
4,4-DDT	**0.008**	*0.0033*	*7.9*
Polychlorinated Biphenyls	**0.108**	*0.1*	*1*
Chromium, hexavalent	**16.6**	*1b*	*110*
Lead, Pb	**102**	*63c*	*400*
Zinc, Zn	**229**	*109*	*10,000*
SB-3 (13-15) - 7/15/2019		**UUSCO**	**RRSCO**
1,2,4-Trimethylbenzene	**3.8**	*3.6*	*52*
1,3,5-Trimethylbenzene	**9**	*8.4*	*52*
Ethylbenzene	**1.4**	*1*	*41*
n-Propylbenzene	**5**	*3.9*	*100*
Total Xylenes	**1.8**	*0.26*	*100*
Total VOCs	57.99	-	-
Total SVOCs	ND	-	-

SB-2 (0-2) - 7/15/2019		UUSCO	RRSCO
Total VOCs	0.014	-	-
Benzo-a-Anthracene	**2.9**	*1*	*1*
Benzo-a-Pyrene	**2**	*1*	*1*
Benzo-b-Fluoranthene	**2.5**	*1*	*1*
Benzo-k-Fluoranthene	**1.2**	*0.8*	*3.9*
Chrysene	**2.5**	*1*	*3.9*
Indeno(1,2,3-cd)Pyrene	**1.3**	*0.5*	*0.5*
Total SVOCs	31.17	-	-
Lead, Pb	**65.5**	*63*	*400*
Mercury, Hg	**0.892**	*0.18*	*0.81*
Zinc, Zn	**491**	*109*	*10,000*
SB-2 (11-13) - 7/15/2019		**UUSCO**	**RRSCO**
Acetone	**0.059**	*0.05*	*100*
Total VOCs	0.138	-	-
Total SVOCs	0.804	-	-

SB-1 (0-2) - 7/15/2019		UUSCO	RRSCO
Total VOCs	0.03	-	-
Total SVOCs	0.019	-	-
SB-1 (2-4) - 7/15/2019		**UUSCO**	**RRSCO**
Total VOCs	0.007	-	-
Total SVOCs	ND	-	-



NOTES:

1. BASE MAP & SITE BOUNDARY BASED ON CLIENT PROVIDED SURVEY DATED 01/29/2019.
2. UNDERLAY OF PROPOSED STRUCTURES INCLUDED FROM SITE PLAN DRAWING NUMBER A-090.00, PREPARED BY STEPHEN B. JACOBS GROUP, P.C. DATED 06/06/2019.
3. "G-B" & "G-AB" SERIES OF GEOTECHNICAL BORINGS INCLUDED FOR REFERENCE, INSTALLED BY OTHERS.
4. VALUES IN BOLD INDICATE EXCEEDANCE OF 6 NYCRR PART 375 **UNRESTRICTED USE** SOIL CLEANUP OBJECTIVES (UUSCOs).
5. SHADED VALUES INDICATE EXCEEDANCE OF 6 NYCRR PART 375 **RESTRICTED RESIDENTIAL** USE SOIL CLEANUP OBJECTIVES (RRSCOs).
6. ONE (1) SHALLOW SAMPLE REPRESENTING THE 0-2 FEET BGS INTERVAL AND ONE (1) DEEP SAMPLE REPRESENTING THE TWO-FOOT INTERVAL DIRECTLY ABOVE BEDROCK OR THE BOTTOM OF THE PROPOSED EXCAVATION, WHICHEVER WAS ENCOUNTERED FIRST, WAS TAKEN FROM EACH AND SUBMITTED FOR ANALYSIS AT A NYS DOH ELAP-CERTIFIED LABORATORY. THE EXCEPTION TO THIS WAS THE SB-6 LOCATION WHERE REFUSAL WAS ENCOUNTERED IN THE FIRST TWO FEET OF BORING. DESPITE SEVERAL ATTEMPTS TO RELOCATE THE BORING, TARGET DEPTH WAS NOT ABLE TO BE ACHIEVED. IT IS LIKELY A BOULDER OR ROCK SHELF IS PRESENT IN THE AREA.
7. ALL RESULTS ARE IN PARTS PER MILLION (PPM, mg/kg).
8. REVISION 1, 12/04/2019: SAMPLE LOCATIONS UPDATED. REVISION 2, 01/15/2020: RESULTS CHANGED TO PPM, VALUES ADDED FOR UUSCOs AND RRSCOs.

LEGEND:

- SOIL VAPOR SAMPLE POINT
- SOIL BORING

SOIL CHEMISTRY RESULTS MAP

1660 BOONE AVENUE
BRONX, NY
BLOCK 3015, LOT 1

SHEET NO.
FIGURE 4

PROJECT NO.	13747
DESIGNED BY:	RD
DRAWN BY:	RD
CHECKED BY:	KK
DATE:	07/24/2019
SCALE:	1" = 15'

REVISIONS NO:	DATE:
1	12/04/2019
2	01/15/2019

IMPACT ENVIRONMENTAL
170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800 FAX (631) 269-1599

1000 PAGE AVENUE
LYNDHURST, NEW JERSEY 07071

SV-5 (7/15/2019)		NYSDOH AGV	
Carbon tetrachloride	ND	6	Matrix A
Trichloroethene (TCE)	14.4	2	Table 3.1
Tetrachloroethene (PCE)	358	30	Table 3.1
Total BTEX	185.7	-	-
Total VOCs	927.83	-	-

SV-7 (7/15/2019)		NYSDOH AGV	
Carbon tetrachloride	45.3	6	Matrix A
Trichloroethene (TCE)	26.8	2	Table 3.1
Tetrachloroethene (PCE)	371	30	Table 3.1
Total BTEX	166.4	-	-
Total VOCs	827.91	-	-

SV-3 (7/15/2019)		NYSDOH AGV	
Carbon tetrachloride	ND	6	Matrix A
Trichloroethene (TCE)	ND	2	Table 3.1
Tetrachloroethene (PCE)	180	30	Table 3.1
Total BTEX	180.9	-	-
Total VOCs	666.89	-	-

SV-2 (7/15/2019)		NYSDOH AGV	
Carbon tetrachloride	ND	6	Matrix A
Trichloroethene (TCE)	ND	2	Table 3.1
Tetrachloroethene (PCE)	37.4	30	Table 3.1
Total BTEX	430.7	-	-
Total VOCs	871.72	-	-

SV-8 (7/15/2019)		NYSDOH AGV	
Carbon tetrachloride	ND	6	Matrix A
Trichloroethene (TCE)	3.41	2	Table 3.1
Tetrachloroethene (PCE)	395	30	Table 3.1
Total BTEX	165.43	-	-
Total VOCs	700.19	-	-

SV-4 (7/15/2019)		NYSDOH AGV	
Carbon tetrachloride	13.6	6	Matrix A
Trichloroethene (TCE)	17.5	2	Table 3.1
Tetrachloroethene (PCE)	2540	30	Table 3.1
Total BTEX	357.1	-	-
Total VOCs	3351.66	-	-

SV-1 (7/15/2019)		NYSDOH AGV	
Carbon tetrachloride	14.6	6	Matrix A
Trichloroethene (TCE)	ND	2	Table 3.1
Tetrachloroethene (PCE)	165	30	Table 3.1
Total BTEX	199.5	-	-
Total VOCs	762.6	-	-

SV-6 (7/15/2019)		NYSDOH AGV	
Carbon tetrachloride	ND	6	Matrix A
Trichloroethene (TCE)	5.09	2	Table 3.1
Tetrachloroethene (PCE)	36.6	30	Table 3.1
Total BTEX	416.4	-	-
Total VOCs	1541.06	-	-

SB-3
SV-3
G-B3
G-AB1
SB-7
SV-7
SV-5
SB-5
SV-8
SV-2
SB-2
SB-4
SV-4
G-AB2
SB-6
SV-6
SB-1
SV-1
G-B2
3RD STREET
BOONE AVENUE
0
15'
30'

NOTES:

1. BASE MAP & SITE BOUNDARY BASED ON CLIENT PROVIDED SURVEY DATED 01/29/2019.
2. UNDERLAY OF PROPOSED STRUCTURES INCLUDED FROM SITE PLAN DRAWING NUMBER A-090.00, PREPARED BY STEPHEN B. JACOBS GROUP, P.C. DATED 06/06/2019.
3. "G-B" & "G-AB" SERIES OF GEOTECHNICAL BORINGS INCLUDED FOR REFERENCE, INSTALLED BY OTHERS.
4. SHADED VALUES INDICATE EXCEEDANCE OF APPLICABLE NYSDOH FINAL SVI GUIDANCE (ISSUED OCTOBER 2006, MOST RECENTLY REVISED IN MAY 2017).
5. ACTIONS HAVE NOT BEEN SPECIFIED AS INDOOR AIR SAMPLES HAVE NOT BEEN COLLECTED TO DATE.
6. ALL SOIL VAPOR SAMPLES WERE COLLECTED FIVE FEET BELOW EXISTING GRADE SURFACE.
7. ALL RESULTS ARE IN PARTS PER BILLION (PPB, $\mu g/m^3$) UNLESS OTHERWISE SHOWN.
8. REVISION 1, 12/04/2019: SAMPLE LOCATIONS UPDATED.

LEGEND:

- SOIL VAPOR SAMPLE POINT
- SOIL BORING

SOIL VAPOR CHEMISTRY RESULTS MAP

1660 BOONE AVENUE
BRONX, NY
BLOCK 3015, LOT 1

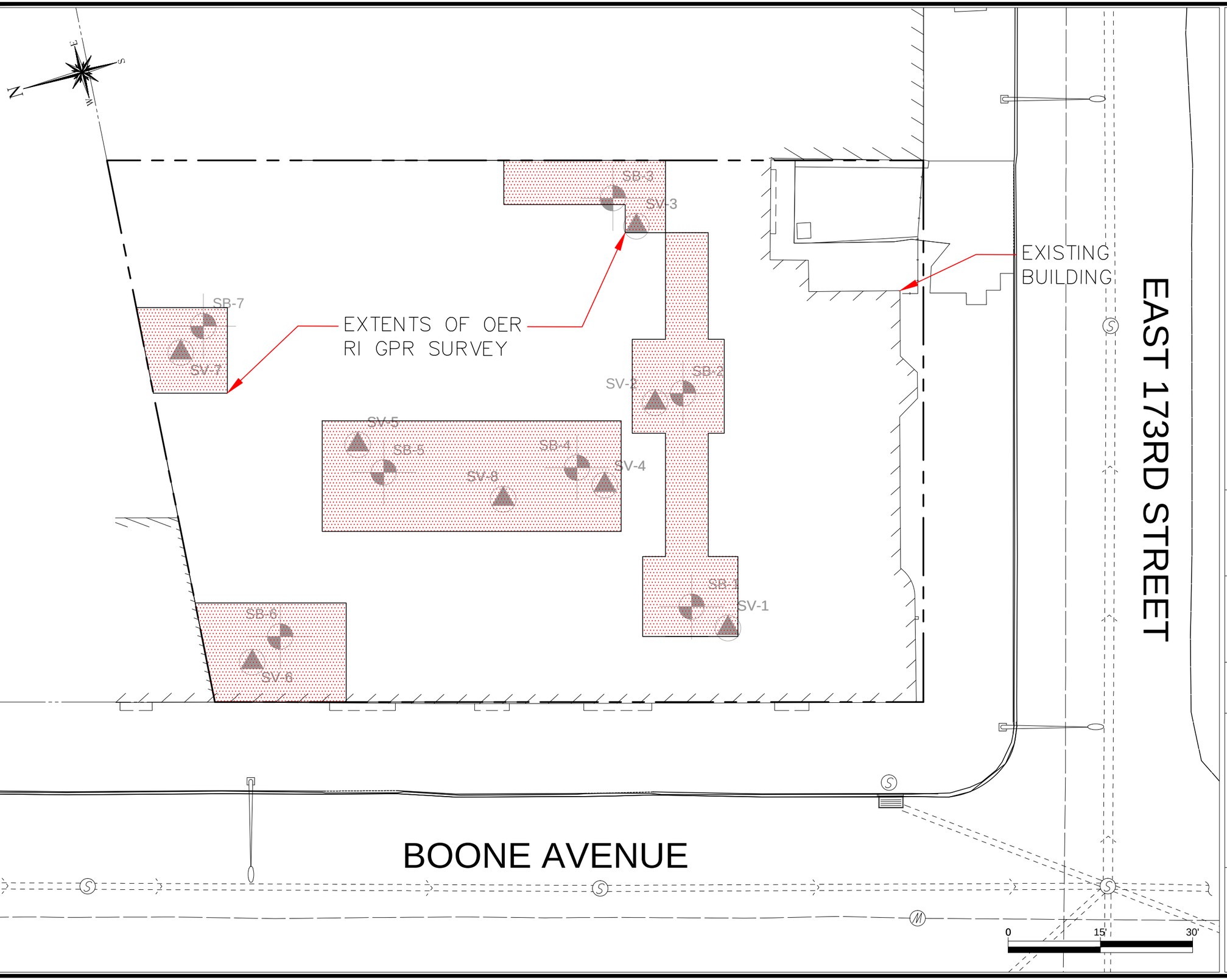
SHEET NO.
FIGURE 5

PROJECT NO.	13747
DESIGNED BY:	RD
DRAWN BY:	RD
CHECKED BY:	KK
DATE:	07/25/2019
SCALE:	1" = 15'

REVISIONS	
NO:	DATE:
1	12/04/2019

IMPACT ENVIRONMENTAL
170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800 FAX (631) 269-1599

1000 PAGE AVENUE
LYNDHURST, NEW JERSEY 07071



NOTES:

1. BASE MAP & SITE BOUNDARY BASED ON CLIENT PROVIDED SURVEY DATED 01/29/2019.
2. SV-1 TO SV-8 AND SB-1 TO SB-7 INCLUDED FROM REMEDIAL INVESTIGATION PERFORMED BY IMPACT IN JULY 2019.
3. GPR SURVEY EXTENTS ARE INDICATIVE AND WERE DEVELOPED FROM FIELD SKETCHES.
4. NO ANOMALIES INDICATIVE OF TANKS AND OR DRAINAGE INFRASTRUCTURE WERE RECORDED DURING SURVEY.

LEGEND:

- SOIL VAPOR SAMPLE POINT
- SOIL BORING

OER REMEDIAL INVESTIGATION GPR SURVEY

1660 BOONE AVENUE
BRONX, NY
BLOCK 3015, LOT 1

SHEET NO.

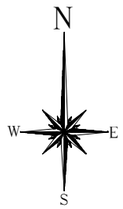
FIGURE 6

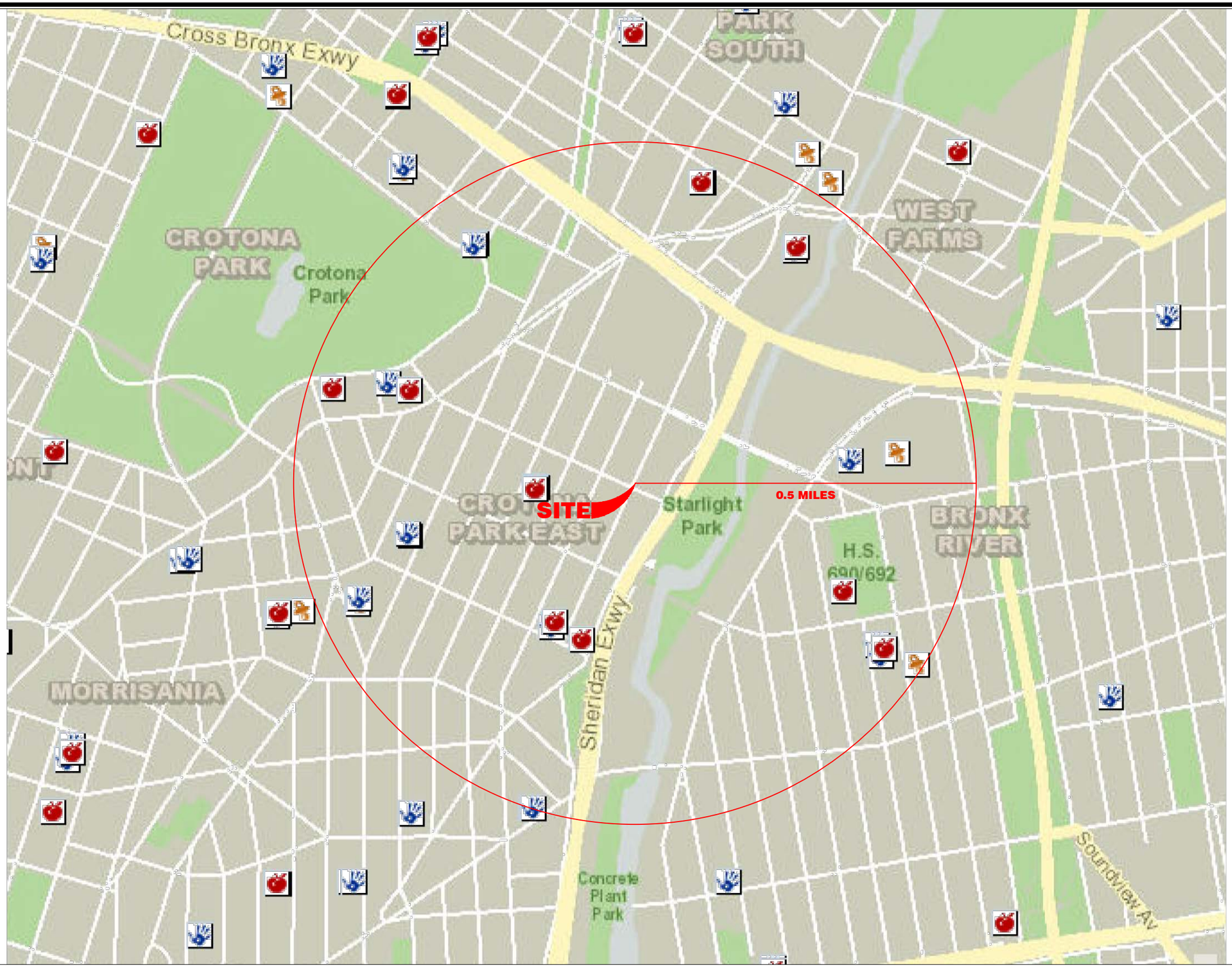
PROJECT NO.	13747
DESIGNED BY:	RD
DRAWN BY:	RD
CHECKED BY:	KK
DATE:	08/25/2019
SCALE:	1" = 15'

REVISIONS	
NO:	DATE:
1	12/04/2019

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TITLE:

SCHOOLS, DAYCARE AND HOSPITALS SURROUNDING SITE

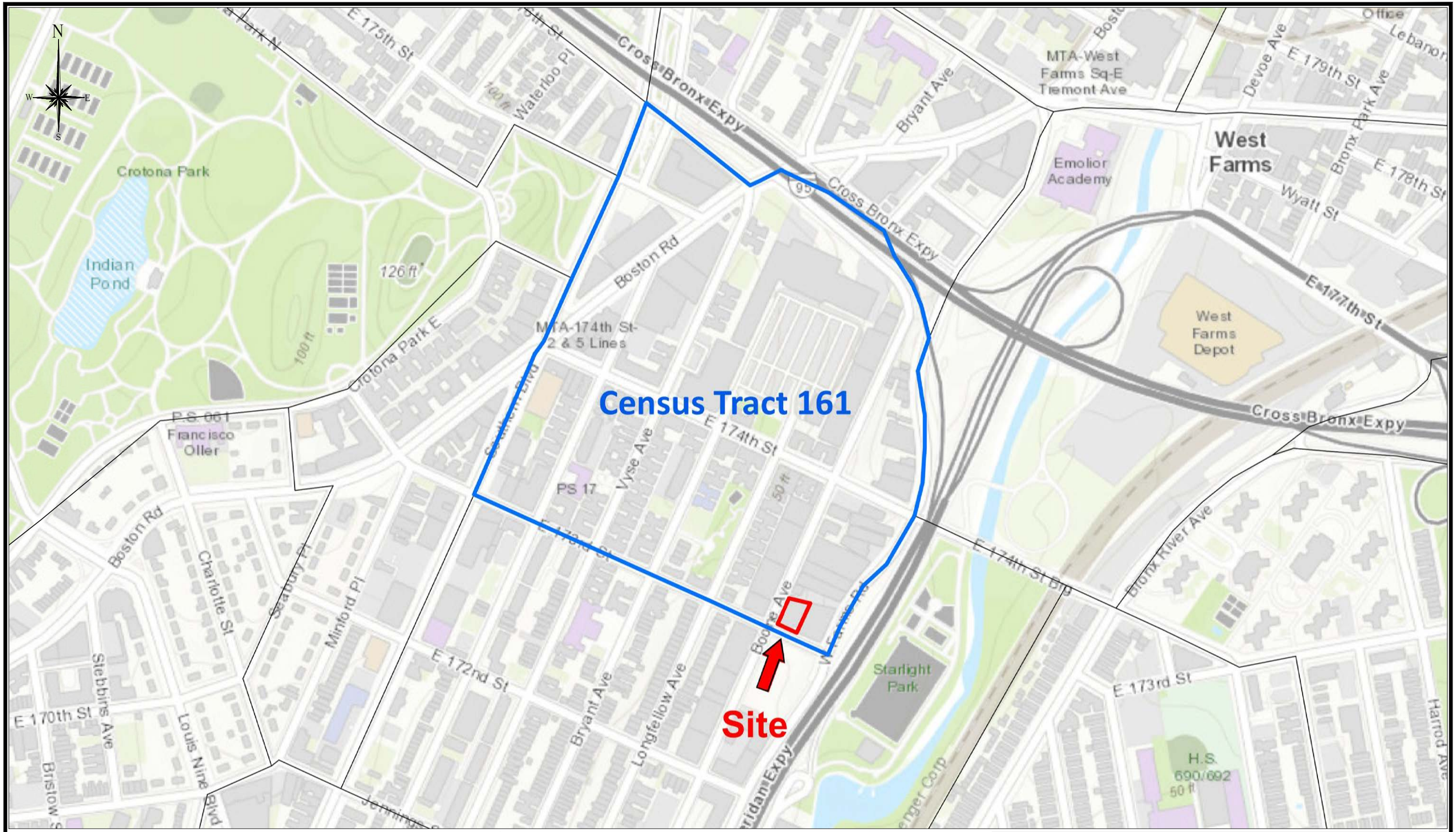
SITE:

1660 BOONE AVENUE
BRONX, NY
BLOCK 3015, LOT 1

SHEET NO.
FIGURE 7

		REVISIONS	
		NO:	DATE:
PROJECT NO.	13747	1	1/15/2020
DESIGNED BY:	RD		
DRAWN BY:	RD		
CHECKED BY:	KK:		
DATE:	12/04/2019		
SCALE:	N.T.S		

NOTES:
1. BASE MAP TAKEN FROM NYC DoITT ONLINE TOOL. ACCESSED 12/04/2019.



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TITLE:

NYSDEC "EN-ZONE" MAP

SITE:

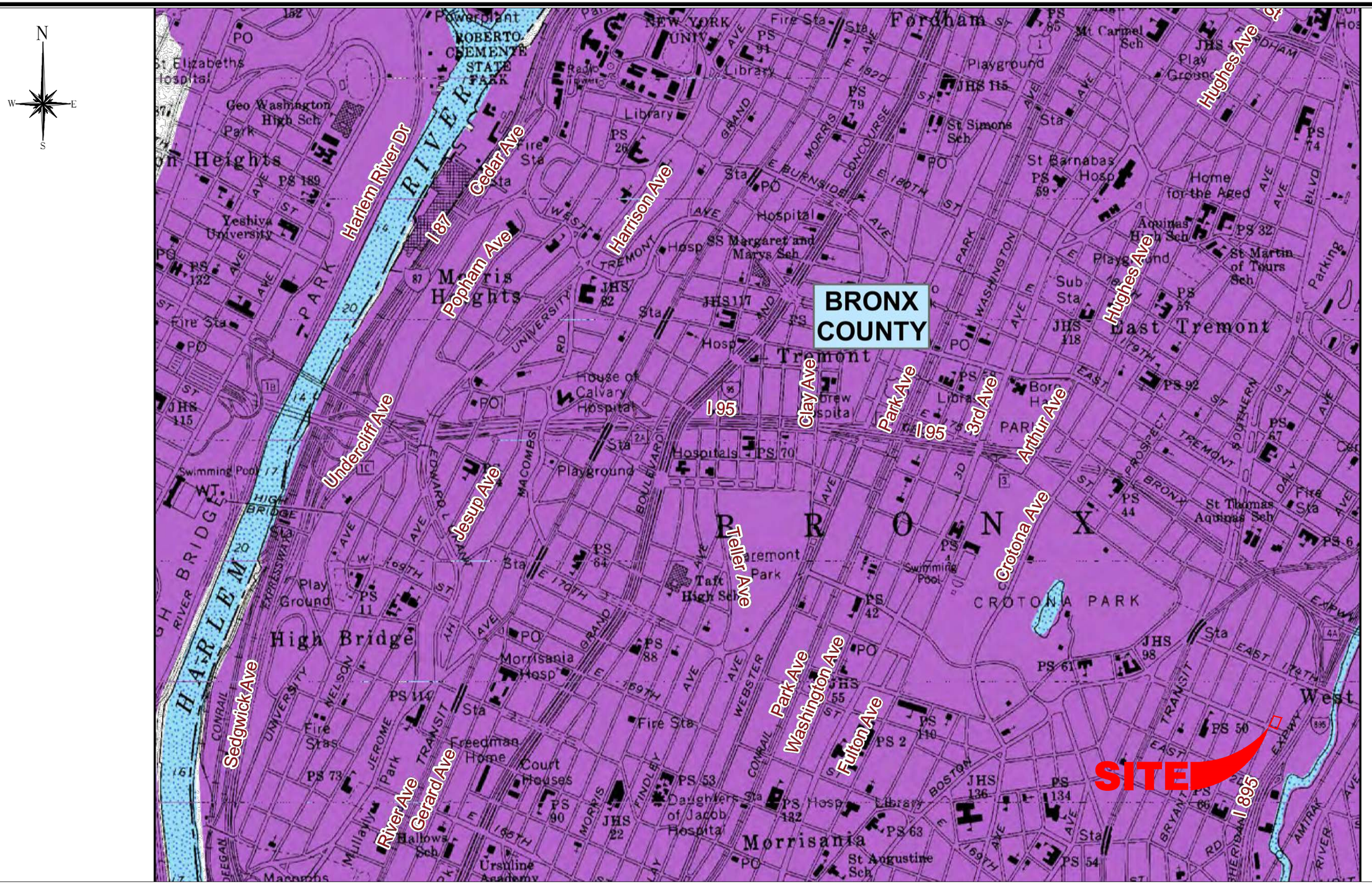
1660 BOONE AVENUE
BRONX, NY
BLOCK 3015, LOT 1

SHEET NO.
FIGURE 8

PROJECT NO.	13747
DESIGNED BY:	RD
DRAWN BY:	RD
CHECKED BY:	KK:
DATE:	12/04/2019
SCALE:	N.T.S

REVISIONS	
NO:	DATE:

NOTES:
1. BASE MAP TAKEN FROM ESRI ONLINE TOOL. ACCESSED 12/04/2019.
2. CENSUS TRACT 161 SHAPEFILE TAKEN FROM NYSDEC WEBSITE. ACCESSED 12/04/2019



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1000 PAGE AVENUE
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TITLE:

POTENTIAL ENVIRONMENTAL JUSTICE AREAS BRONX

SITE:

1660 BOONE AVENUE
BRONX, NY
BLOCK 3015, LOT 1

SHEET NO. FIGURE 9

PROJECT NO.	13747
DESIGNED BY:	RD
DRAWN BY:	RD
CHECKED BY:	KK:
DATE:	06/24/2019
SCALE:	N.T.S

REVISIONS	
NO:	DATE:

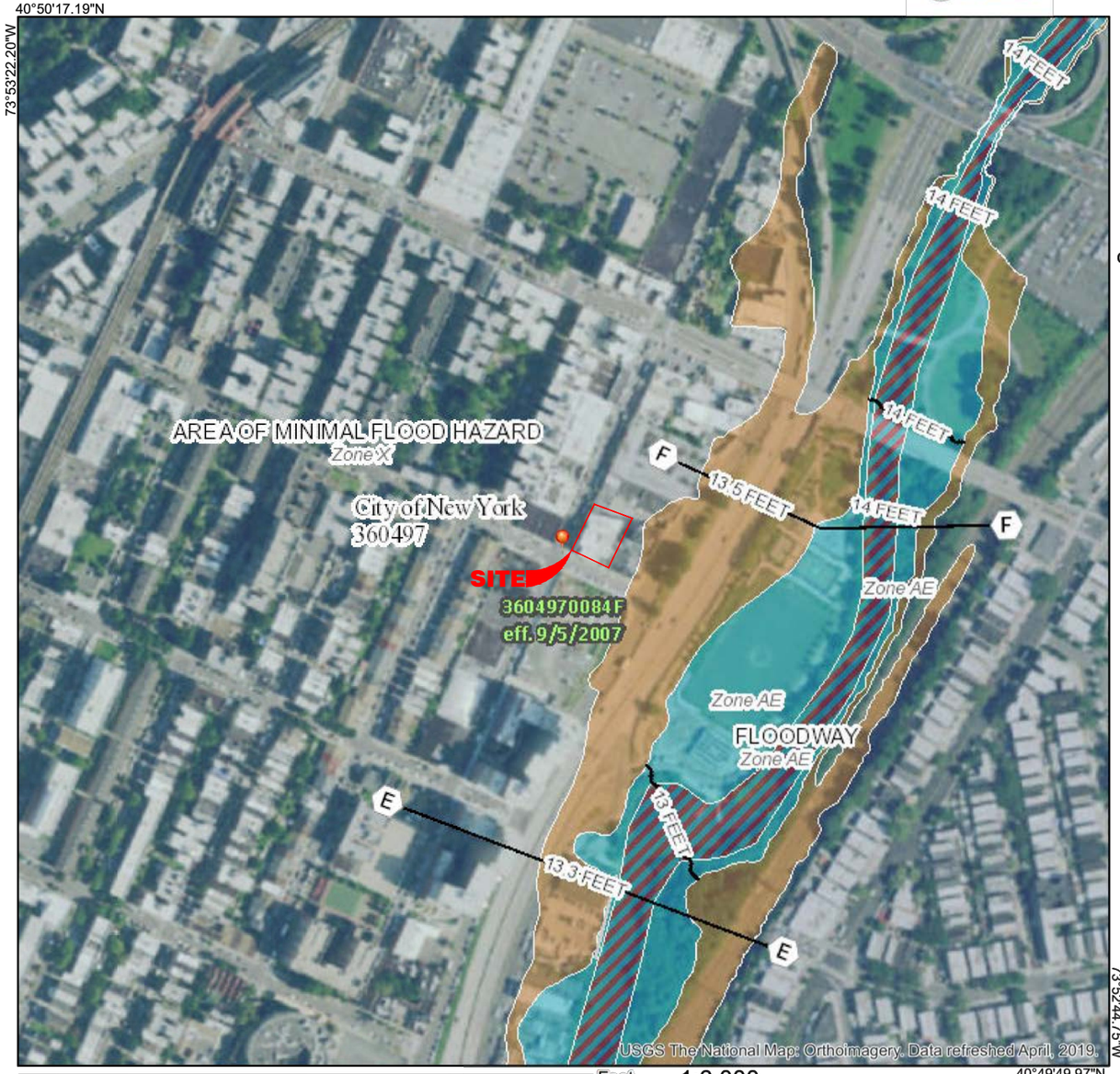
NOTES:
1. BASE MAP TAKEN FROM "POTENTIAL ENVIRONMENTAL JUSTICE AREAS IN EAST CENTRAL BRONX COUNTY, NEW YORK" AS PREPARED BY NYSDEC.
2. PURPLE SHADING INDICATES POTENTIAL ENVIRONMENTAL JUSTICE AREAS.

National Flood Hazard Layer FIRMette

FEMA

40°50'17.19"N

73°53'22.20"W



73°52'44.75"W

40°49'49.97"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN — Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 — Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **12/4/2019 at 11:06:54 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

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170 KEYLAND COURT
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TITLE:

FEMA FLOOD ZONE MAP

SITE:

1660 BOONE AVENUE
BRONX, NY
BLOCK 3015, LOT 1

SHEET NO.

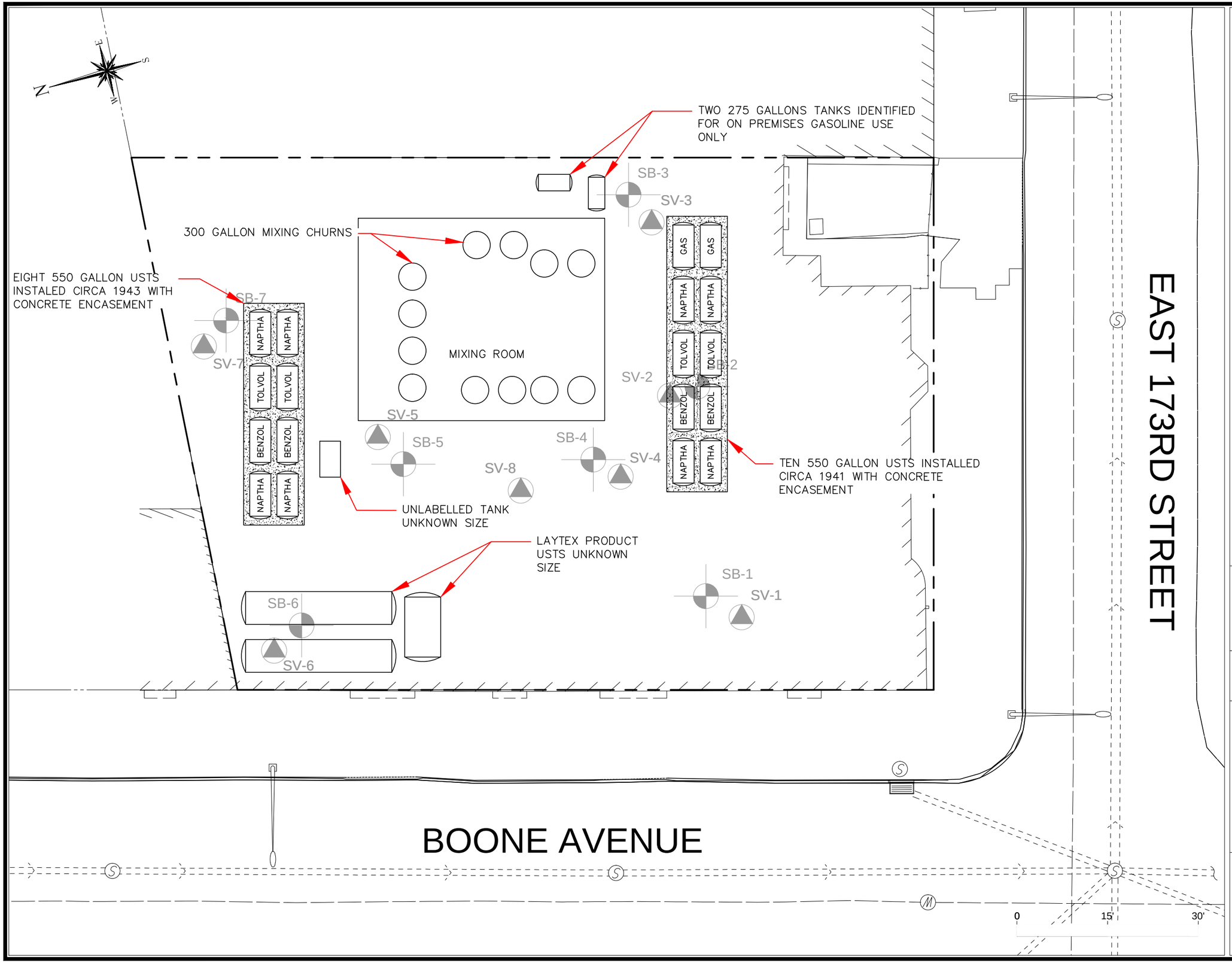
FIGURE 10

PROJECT NO.	13747
DESIGNED BY:	RD
DRAWN BY:	RD
CHECKED BY:	KK:
DATE:	12/04/2019
SCALE:	AS SHOWN

REVISIONS NO:	DATE:

NOTES:

1. BASE MAP TAKEN FROM FEMA ONLINE TOOL "FIRMETTE." ACCESSED 12/04/2019.



NOTES:

1. BASE MAP & SITE BOUNDARY BASED ON CLIENT PROVIDED SURVEY DATED 01/29/2019.
2. UNDERLAY OF TANKS, MIXING EQUIPMENT AND ASSOCIATED STRUCTURES GENERATED FROM NYCDOB PLANS CIRCA 1941. DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

CHEMICAL AND PETROLEUM TANK LOCATION MAP

1660 BOONE AVENUE
BRONX, NY
BLOCK 3015, LOT 1

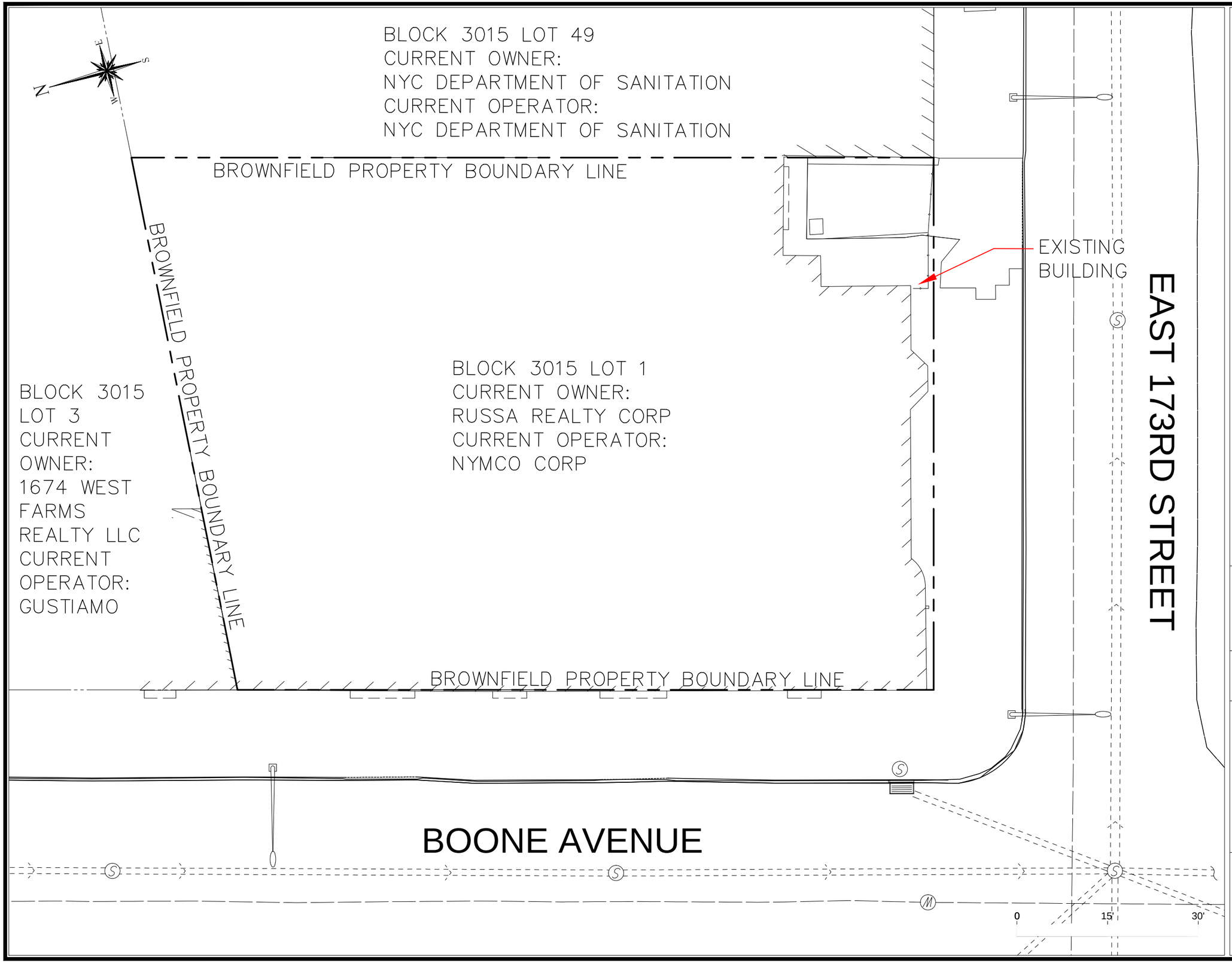
SHEET NO.
FIGURE 11

PROJECT NO.	13747
DESIGNED BY:	RD
DRAWN BY:	RD
CHECKED BY:	KK
DATE:	12/04/2019
SCALE:	1" = 15'

REVISIONS	
NO:	DATE:

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NOTES:

1. BASE MAP & SITE BOUNDARY BASED ON CLIENT PROVIDED SURVEY DATED 01/29/2019.

PROPERTY BASE MAP

1660 BOONE AVENUE
BRONX, NY
BLOCK 3015, LOT 1

SHEET NO.
FIGURE 12

PROJECT NO.	13747
DESIGNED BY:	RD
DRAWN BY:	RD
CHECKED BY:	KK
DATE:	12/04/2019
SCALE:	1" = 15'

REVISIONS

NO:	DATE:

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170 KEYLAND COURT
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Appendix A: Brownfield Cleanup Program Application Form

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

BROWNFIELD CLEANUP PROGRAM (BCP) APPLICATION FORM

DEC requires an application to request major changes to the description of the property set forth in a Brownfield Cleanup Agreement, or "*BCA*" (e.g., adding a significant amount of new property, or adding property that could affect an eligibility determination due to contamination levels or intended land use). Such application must be submitted and processed in the same manner as the original application, including the required public comment period. **Is this an application to amend an existing BCA?**

☐ **Yes** ☑ **No** **If yes, provide existing site number:** _____

PART A (note: application is separated into Parts A and B for DEC review purposes) ***BCP App Rev 10***

Section I. Requestor Information - See Instructions for Further Guidance

DEC USE ONLY
BCP SITE #: _____

NAME JJS Boone LLC

ADDRESS 511 Canal Street, Suite 500

CITY/TOWN New York, NY ZIP CODE 10013

PHONE 646-476-9228 | FAX N/A | E-MAIL js@baronemanagement.com

Is the requestor authorized to conduct business in New York State (NYS)? ☑ Yes ☐ No

- If the requestor is a Corporation, LLC, LLP or other entity requiring authorization from the NYS Department of State to conduct business in NYS, the requestor's name must appear, exactly as given above, in the NYS Department of State's Corporation & Business Entity Database. A print-out of entity information from the database must be submitted to the New York State Department of Environmental Conservation (DEC) with the application to document that the requestor is authorized to do business in NYS. **Please note:** If the requestor is an LLC, the members/owners names need to be provided on a separate attachment.

Do all individuals that will be certifying documents meet the requirements detailed below? ☑ Yes ☐ No

- Individuals that will be certifying BCP documents, as well as their employers, meet the requirements of Section 1.5 of *DER-10: Technical Guidance for Site Investigation and Remediation* and Article 145 of New York State Education Law. **Documents that are not properly certified will be not approved under the BCP**.

Section II. Project Description

1. What stage is the project starting at? ☑ Investigation ☐ Remediation

NOTE: If the project is proposed to start at the remediation stage, a Remedial Investigation Report (RIR) at a minimum is required to be attached, resulting in a 30-day public comment period. If an Alternatives Analysis and Remedial Work Plan are also attached (see DER-10 / Technical Guidance for Site Investigation and Remediation for further guidance) then a 45-day public comment period is required.

2. If a final RIR is included, please verify it meets the requirements of Environmental Conservation Law (ECL) Article 27-1415(2): ☐ Yes ☐ No

3. Please attach a short description of the overall development project, including:

- the date that the remedial program is to start; and
- the date the Certificate of Completion is anticipated.

Section III. Property's Environmental History

All applications **must include** an Investigation Report (per ECL 27-1407(1)). The report must be sufficient to establish contamination of environmental media on the site above applicable Standards, Criteria and Guidance (SCGs) based on the reasonably anticipated use of the property.

To the extent that existing information/studies/reports are available to the requestor, please attach the following (***please submit the information requested in this section in electronic format only***):

1. **Reports:** an example of an Investigation Report is a Phase II Environmental Site Assessment report prepared in accordance with the latest American Society for Testing and Materials standard (ASTM E1903). **Please submit a separate electronic copy of each report in Portable Document Format (PDF).**

2. SAMPLING DATA: INDICATE KNOWN CONTAMINANTS AND THE MEDIA WHICH ARE KNOWN TO HAVE BEEN AFFECTED. LABORATORY REPORTS SHOULD BE REFERENCED AND COPIES INCLUDED.

Contaminant Category	Soil	Groundwater	Soil Gas
Petroleum	X		
Chlorinated Solvents	X		X
Other VOCs	X		
SVOCs	X		
Metals	X		
Pesticides			
PCBs			
Other*			

***Please describe:** _____

3. FOR EACH IMPACTED MEDIUM INDICATED ABOVE, INCLUDE A SITE DRAWING INDICATING:

- **SAMPLE LOCATION**
- **DATE OF SAMPLING EVENT**
- **KEY CONTAMINANTS AND CONCENTRATION DETECTED**
- **FOR SOIL, HIGHLIGHT IF ABOVE REASONABLY ANTICIPATED USE**
- **FOR GROUNDWATER, HIGHLIGHT EXCEEDANCES OF 6NYCRR PART 703.5**
- **FOR SOIL GAS/ SOIL VAPOR/ INDOOR AIR, HIGHLIGHT IF ABOVE MITIGATE LEVELS ON THE NEW YORK STATE DEPARTMENT OF HEALTH MATRIX**

THESE DRAWINGS ARE TO BE REPRESENTATIVE OF ALL DATA BEING RELIED UPON TO MAKE THE CASE THAT THE SITE IS IN NEED OF REMEDIATION UNDER THE BCP. DRAWINGS SHOULD NOT BE BIGGER THAN 11" X 17". THESE DRAWINGS SHOULD BE PREPARED IN ACCORDANCE WITH ANY GUIDANCE PROVIDED.

ARE THE REQUIRED MAPS INCLUDED WITH THE APPLICATION?* ☑ **Yes** ☐ **No**
(*answering No will result in an incomplete application)

4. INDICATE PAST LAND USES (CHECK ALL THAT APPLY):

☐ Coal Gas Manufacturing	☑ Manufacturing	☐ Agricultural Co-op	☐ Dry Cleaner
☐ Salvage Yard	☐ Bulk Plant	☐ Pipeline	☐ Service Station
☐ Landfill	☐ Tannery	☐ Electroplating	☐ Unknown

Other: Adhesive Products (Rubber Cement) Manufacturer

Section IV. Property Information - See Instructions for Further Guidance

PROPOSED SITE NAME Former Adhesive Products Corporation

ADDRESS/LOCATION 1660 Boone Avenue

CITY/TOWN Bronx ZIP CODE 10460

MUNICIPALITY(IF MORE THAN ONE, LIST ALL):

COUNTY Bronx SITE SIZE (ACRES) 0.25

LATITUDE (degrees/minutes/seconds)	LONGITUDE (degrees/minutes/seconds)
40 ° 50 ‘ 3.69 “	73 ° 53 ‘ 2.60 “

Complete tax map information for all tax parcels included within the proposed site boundary. If a portion of any lot is proposed , please indicate as such by inserting “P/O” in front of the lot number in the appropriate box below, and only include the acreage for that portion of the tax parcel in the corresponding far right column.ATTACH REQUIRED MAPS PER THE APPLICATION INSTRUCTIONS.

Parcel Address	Section No.	Block No.	Lot No.	Acreage
1660 Boone Avenue	11	3015	1	0.25

1. Do the proposed site boundaries correspond to tax map metes and bounds? ☑ Yes ☐ No
   If no, please attach an accurate map of the propsed site.

2. Is the required property map attached to the application? ☑ Yes ☐ No
   (application will not be processed without map)

3. Is the property within a designated Environmental Zone (En-zone) pursuant to Tax Law 21(b)(6)?
   (See DEC's website for more information) Yes ☑ No ☐

   If yes, identify census tract : 161

   Percentage of property in En-zone (check one): ☐ 0-49% ☐ 50-99% ☑ 100%

4. Is this application one of multiple applications for a large development project, where the development project spans more than 25 acres (see additional criteria in BCP application instructions)? ☐ Yes ☑ No

   If yes, identify name of properties (and site numbers if available) in related BCP applications:_____

5. Is the contamination from groundwater or soil vapor solely emanating from property other than the site subject to the present application? ☐ Yes ☑ No

6. Has the property previously been remediated pursuant to Titles 9, 13, or 14 of ECL Article 27, Title 5 of ECL Article 56, or Article 12 of Navigation Law? ☐ Yes ☑ No
   If yes, attach relevant supporting documentation.

7. Are there any lands under water? ☐ Yes ☑ No
   If yes, these lands should be clearly delineated on the site map.

Section IV. Property Information (continued)

8. Are there any easements or existing rights of way that would preclude remediation in these areas? If yes, identify here and attach appropriate information. ☐ Yes ☑ No

Easement/Right-of-way Holder	Description

9. List of Permits issued by the DEC or USEPA Relating to the Proposed Site (type here or attach information)

Type	Issuing Agency	Description
Waste Generator ID	USEPA - NYD001360031	Refer to attached narrative report.

10. Property Description and Environmental Assessment – **please refer to application instructions for the proper format of <u>each</u> narrative requested.**

Are the Property Description and Environmental Assessment narratives included in the **prescribed format**? ☑ Yes ☐ No

Note: Questions 11 through 13 only pertain to sites located within the five counties comprising New York City

11. Is the requestor seeking a determination that the site is eligible for tangible property tax credits? ☑ Yes ☐ No
If yes, requestor must answer questions on the supplement at the end of this form.

12. Is the Requestor now, or will the Requestor in the future, seek a determination that the property is Upside Down? ☐ Yes ☑ No

13. If you have answered *Yes* to Question 12, above, is an independent appraisal of the value of the property, as of the date of application, prepared under the hypothetical condition that the property is not contaminated, included with the application? ☐ Yes ☐ No

NOTE: If a tangible property tax credit determination is not being requested in the application to participate in the BCP, the applicant may seek this determination at any time before issuance of a certificate of completion by using the BCP Amendment Application, <u>except</u> for sites seeking eligibility under the underutilized category.

If any changes to Section IV are required prior to application approval, a new page, initialed by each requestor, must be submitted.

Initials of each Requestor: _____ _____ _____ _____ _____ _____

BCP application - PART B (note: application is separated into Parts A and B for DEC review purposes)

Section V. Additional Requestor Information See Instructions for Further Guidance	DEC USE ONLY BCP SITE NAME: _____ BCP SITE #:_____	
NAME OF REQUESTOR'S AUTHORIZED REPRESENTATIVE John Silviano		
ADDRESS 511 Canal Street, Suite 500		
CITY/TOWN New York, NY		ZIP CODE 10013
PHONE 646-476-9228	FAX	E-MAIL js@baronemanagement.com
NAME OF REQUESTOR'S CONSULTANT Kevin Kleaka		
ADDRESS 170 Keyland Court		
CITY/TOWN Bohemia, New York		ZIP CODE 11716
PHONE 631-269-8800	FAX 631-269-1599	E-MAIL kkleaka@impactenvironmental.com
NAME OF REQUESTOR'S ATTORNEY Steven C. Russo		
ADDRESS 200 Park Avenue		
CITY/TOWN New York, NY		ZIP CODE
PHONE 212.801.2155	FAX 212.805.9455	E-MAIL russos@gtlaw.com
Section VI. Current Property Owner/Operator Information – if not a Requestor		
CURRENT OWNER'S NAME Russa Realty Corporation		OWNERSHIP START DATE: 11/2/2001
ADDRESS 1660 Boone Avenue		
CITY/TOWN Bronx		ZIP CODE 10460
PHONE 516-876-1105	FAX	E-MAIL steven@sawlaw.com
CURRENT OPERATOR'S NAME Same		
ADDRESS		
CITY/TOWN		ZIP CODE
PHONE	FAX	E-MAIL

PROVIDE A LIST OF PREVIOUS PROPERTY OWNERS AND OPERATORS WITH NAMES, LAST KNOWN ADDRESSES AND TELEPHONE NUMBERS AS AN ATTACHMENT. DESCRIBE REQUESTOR'S RELATIONSHIP, TO EACH PREVIOUS OWNER AND OPERATOR, INCLUDING ANY RELATIONSHIP BETWEEN REQUESTOR'S CORPORATE MEMBERS AND PREVIOUS OWNER AND OPERATOR. IF NO RELATIONSHIP, PUT "NONE".

IF REQUESTOR IS NOT THE CURRENT OWNER, DESCRIBE REQUESTOR'S RELATIONSHIP TO THE CURRENT OWNER, INCLUDING ANY RELATIONSHIP BETWEEN REQUESTOR'S CORPORATE MEMBERS AND THE CURRENT OWNER.

Section VII. Requestor Eligibility Information (Please refer to ECL § 27-1407)

If answering "yes" to any of the following questions, please provide an explanation as an attachment.

1. Are any enforcement actions pending against the requestor regarding this site? ☐ Yes ☑ No
2. Is the requestor subject to an existing order for the investigation, removal or remediation of contamination at the site? ☐ Yes ☑ No
3. Is the requestor subject to an outstanding claim by the Spill Fund for this site? Any questions regarding whether a party is subject to a spill claim should be discussed with the Spill Fund Administrator. ☐ Yes ☑ No

Section VII. Requestor Eligibility Information (continued)

4. Has the requestor been determined in an administrative, civil or criminal proceeding to be in violation of i) any provision of the ECL Article 27; ii) any order or determination; iii) any regulation implementing Title 14; or iv) any similar statute, regulation of the state or federal government? If so, provide an explanation on a separate attachment. ☐ Yes ☑ No
5. Has the requestor previously been denied entry to the BCP? If so, include information relative to the application, such as name, address, DEC assigned site number, the reason for denial, and other relevant information. ☐ Yes ☑ No
6. Has the requestor been found in a civil proceeding to have committed a negligent or intentionally tortious act involving the handling, storing, treating, disposing or transporting of contaminants? ☐ Yes ☑ No
7. Has the requestor been convicted of a criminal offense i) involving the handling, storing, treating, disposing or transporting of contaminants; or ii) that involves a violent felony, fraud, bribery, perjury, theft, or offense against public administration (as that term is used in Article 195 of the Penal Law) under federal law or the laws of any state? ☐ Yes ☑ No
8. Has the requestor knowingly falsified statements or concealed material facts in any matter within the jurisdiction of DEC, or submitted a false statement or made use of or made a false statement in connection with any document or application submitted to DEC? ☐ Yes ☑ No
9. Is the requestor an individual or entity of the type set forth in ECL 27-1407.9 (f) that committed an act or failed to act, and such act or failure to act could be the basis for denial of a BCP application? ☐ Yes ☑ No
10. Was the requestor's participation in any remedial program under DEC's oversight terminated by DEC or by a court for failure to substantially comply with an agreement or order? ☐ Yes ☑ No
11. Are there any unregistered bulk storage tanks on-site which require registration? ☐ Yes ☑ No

THE REQUESTOR MUST CERTIFY THAT HE/SHE IS EITHER A PARTICIPANT OR VOLUNTEER IN ACCORDANCE WITH ECL 27-1405 (1) BY CHECKING ONE OF THE BOXES BELOW:

☐ PARTICIPANT

A requestor who either 1) was the owner of the site at the time of the disposal of hazardous waste or discharge of petroleum or 2) is otherwise a person responsible for the contamination, unless the liability arises solely as a result of ownership, operation of, or involvement with the site subsequent to the disposal of hazardous waste or discharge of petroleum.

☑ VOLUNTEER

A requestor other than a participant, including a requestor whose liability arises solely as a result of ownership, operation of or involvement with the site subsequent to the disposal of hazardous waste or discharge of petroleum.

NOTE: By checking this box, a requestor whose liability arises solely as a result of ownership, operation of or involvement with the site certifies that he/she has exercised appropriate care with respect to the hazardous waste found at the facility by taking reasonable steps to: i) stop any continuing discharge; ii) prevent any threatened future release; iii) prevent or limit human, environmental, or natural resource exposure to any previously released hazardous waste.

If a requestor whose liability arises solely as a result of ownership, operation of or involvement with the site, submit a statement describing why you should be considered a volunteer – be specific as to the appropriate care taken.

Section VII. Requestor Eligibility Information (continued)

Requestor Relationship to Property (check one):
☐ Previous Owner ☐ Current Owner ☑ Potential /Future Purchaser ☐ Other_____

If requestor is not the current site owner, **proof of site access sufficient to complete the remediation must be submitted**. Proof must show that the requestor will have access to the property before signing the BCA and throughout the BCP project, including the ability to place an easement on the site Is this proof attached?

☑ Yes ☐ No

Note: a purchase contract does not suffice as proof of access.

Section VIII. Property Eligibility Information - See Instructions for Further Guidance

1. Is / was the property, or any portion of the property, listed on the National Priorities List?
   If yes, please provide relevant information as an attachment. ☐ Yes ☑ No
2. Is / was the property, or any portion of the property, listed on the NYS Registry of Inactive Hazardous Waste Disposal Sites pursuant to ECL 27-1305? ☐ Yes ☑ No
   If yes, please provide: Site #_____ Class # _____
3. Is / was the property subject to a permit under ECL Article 27, Title 9, other than an Interim Status facility? ☑ Yes ☐ No
   If yes, please provide: Permit type: Large Quantity Generator EPA ID Number: NYD001360031
   Date permit issued: 08/04/1992 Permit expiration date:_____
4. If the answer to question 2 or 3 above is yes, is the site owned by a volunteer as defined under ECL 27-1405(1)(b), or under contract to be transferred to a volunteer? Attach any information available to the requestor related to previous owners or operators of the facility or property and their financial viability, including any bankruptcy filing and corporate dissolution documentation. ☑ Yes ☐ No
5. Is the property subject to a cleanup order under Navigation Law Article 12 or ECL Article 17 Title 10?
   If yes, please provide: Order #_____ ☐ Yes ☑ No
6. Is the property subject to a state or federal enforcement action related to hazardous waste or petroleum?
   If yes, please provide explanation as an attachment. ☐ Yes ☑ No

Section IX. Contact List Information

To be considered complete, the application must include the Brownfield Site Contact List in accordance with *DER-23 / Citizen Participation Handbook for Remedial Programs*. Please attach, at a minimum, the names and addresses of the following:

1. The chief executive officer and planning board chairperson of each county, city, town and village in which the property is located.
2. Residents, owners, and occupants of the property and properties adjacent to the property.
3. Local news media from which the community typically obtains information.
4. The public water supplier which services the area in which the property is located.
5. Any person who has requested to be placed on the contact list.
6. The administrator of any school or day care facility located on or near the property.
7. The location of a document repository for the project (e.g., local library). **If the site is located in a city with a population of one million or more, add the appropriate community board as an additional document repository**. In addition, attach a copy of an acknowledgement from each repository indicating that it agrees to act as the document repository for the site.

Section X. Land Use Factors

1. What is the current municipal zoning designation for the site? R7A/C2-4

   What uses are allowed by the current zoning? (Check boxes, below)

   ☑ Residential ☑ Commercial ☐ Industrial

   If zoning change is imminent, please provide documentation from the appropriate zoning authority.

2. Current Use: ☐ Residential ☑ Commercial ☐ Industrial ☐ Vacant ☐ Recreational (check all that apply)
   Attach a summary of current business operations or uses, with an emphasis on identifying possible contaminant source areas. If operations or uses have ceased, provide the date.

3. Reasonably anticipated use Post Remediation: ☑ Residential ☑ Commercial ☐ Industrial (check all that apply) **Attach a statement detailing the specific proposed use.**

   If residential, does it qualify as single family housing? ☐ Yes ☑ No

4. Do current historical and/or recent development patterns support the proposed use? ☑ Yes ☐ No

   Refer to attached narrative report.

5. Is the proposed use consistent with applicable zoning laws/maps? Briefly explain below, or attach additional information and documentation if necessary. ☑ Yes ☐ No

   Refer to attached narrative report.

6. Is the proposed use consistent with applicable comprehensive community master plans, local waterfront revitalization plans, or other adopted land use plans? Briefly explain below, or attach additional information and documentation if necessary. ☑ Yes ☐ No

   Refer to attached narrative report.

XI. Statement of Certification and Signatures

(By requestor who is an individual)

If this application is approved, I hereby acknowledge and agree: (1) to execute a Brownfield Cleanup Agreement (BCA) within 60 days of the date of DEC's approval letter; (2) to the general terms and conditions set forth in the *DER-32, Brownfield Cleanup Program Applications and Agreements*; and (3) that in the event of a conflict between the general terms and conditions of participation and the terms contained in a site-specific BCA, the terms in the site-specific BCA shall control. Further, I hereby affirm that information provided on this form and its attachments is true and complete to the best of my knowledge and belief. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to section 210.45 of the Penal Law.

Date: _____ Signature: _____

Print Name: _____

(By a requestor other than an individual)

I hereby affirm that I am Member Manager (title) of JSS Bay LLC (entity); that I am authorized by that entity to make this application and execute the Brownfield Cleanup Agreement (BCA) and all subsequent amendments; that this application was prepared by me or under my supervision and direction. If this application is approved, I acknowledge and agree: (1) to execute a BCA within 60 days of the date of DEC's approval letter; (2) to the general terms and conditions set forth in the *DER-32, Brownfield Cleanup Program Applications and Agreements*; and (3) that in the event of a conflict between the general terms and conditions of participation and the terms contained in a site-specific BCA, the terms in the site-specific BCA shall control. Further, I hereby affirm that information provided on this form and its attachments is true and complete to the best of my knowledge and belief. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Date: 1/16/25 Signature: _____

Print Name: John Silvio

SUBMITTAL INFORMATION:

- **Two (2)** copies, one paper copy with original signatures and one electronic copy in Portable Document Format (PDF), must be sent to:
  - Chief, Site Control Section
  - New York State Department of Environmental Conservation
  - Division of Environmental Remediation
  - 625 Broadway
  - Albany, NY 12233-7020

FOR DEC USE ONLY
BCP SITE T&A CODE: _____ **LEAD OFFICE:** _____

Supplemental Questions for Sites Seeking Tangible Property Credits in New York City ONLY. Sufficient information to demonstrate that the site meets one or more of the criteria identified in ECL 27 1407(1-a) must be submitted if requestor is seeking this determination.

BCP App Rev 10

Property is in Bronx, Kings, New York, Queens, or Richmond counties.	☑ Yes ☐ No
Requestor seeks a determination that the site is eligible for the tangible property credit component of the brownfield redevelopment tax credit.	☑ Yes ☐ No
Please answer questions below and provide documentation necessary to support answers.	
1. Is at least 50% of the site area located within an environmental zone pursuant to NYS Tax Law 21(b)(6)? Please see DEC's website for more information.	☑ Yes ☐ No
2. Is the property upside down or underutilized as defined below? Upside Down?	☐ Yes ☑ No
Underutilized?	☐ Yes ☑ No

From ECL 27-1405(31):

"Upside down" shall mean a property where the projected and incurred cost of the investigation and remediation which is protective for the anticipated use of the property equals or exceeds seventy-five percent of its independent appraised value, as of the date of submission of the application for participation in the brownfield cleanup program, developed under the hypothetical condition that the property is not contaminated.

From 6 NYCRR 375-3.2(l) as of August 12, 2016: (Please note: Eligibility determination for the underutilized category can only be made at the time of application)

375-3.2:

(l) "Underutilized" means, as of the date of application, real property on which no more than fifty percent of the permissible floor area of the building or buildings is certified by the applicant to have been used under the applicable base zoning for at least three years prior to the application, which zoning has been in effect for at least three years; and

(1) the proposed use is at least 75 percent for industrial uses; or

(2) at which:

(i) the proposed use is at least 75 percent for commercial or commercial and industrial uses;

(ii) the proposed development could not take place without substantial government assistance, as certified by the municipality in which the site is located; and

(iii) one or more of the following conditions exists, as certified by the applicant:

(a) property tax payments have been in arrears for at least five years immediately prior to the application;

(b) a building is presently condemned, or presently exhibits documented structural deficiencies, as certified by a professional engineer, which present a public health or safety hazard; or

(c) there are no structures.

"Substantial government assistance" shall mean a substantial loan, grant, land purchase subsidy, land purchase cost exemption or waiver, or tax credit, or some combination thereof, from a governmental entity.

Supplemental Questions for Sites Seeking Tangible Property Credits in New York City (continued)

3. If you are seeking a formal determination as to whether your project is eligible for Tangible Property Tax Credits based in whole or in part on its status as an affordable housing project (defined below), you must attach the regulatory agreement with the appropriate housing agency (typically, these would be with the *New York City Department of Housing, Preservation and Development*; *the New York State Housing Trust Fund Corporation*; the *New York State Department of Housing and Community Renewal*; or the *New York State Housing Finance Agency*, though other entities may be acceptable pending Department review). **Check appropriate box, below**:

☐ Project is an Affordable Housing Project - Regulatory Agreement Attached;

☐ Project is Planned as Affordable Housing, But Agreement is Not Yet Available* (*Checking this box will result in a "pending" status. The Regulatory Agreement will need to be provided to the Department and the Brownfield Cleanup Agreement will need to be amended prior to issuance of the CoC in order for a positive determination to be made.);

☑ This is Not an Affordable Housing Project.

From 6 NYCRR 375- 3.2(a) as of August 12, 2016:

(a) "Affordable housing project" means, for purposes of this part, title fourteen of article twenty seven of the environmental conservation law and section twenty-one of the tax law only, a project that is developed for residential use or mixed residential use that must include affordable residential rental units and/or affordable home ownership units.

(1) Affordable residential rental projects under this subdivision must be subject to a federal, state, or local government housing agency's affordable housing program, or a local government's regulatory agreement or legally binding restriction, which defines (i) a percentage of the residential rental units in the affordable housing project to be dedicated to (ii) tenants at a defined maximum percentage of the area median income based on the occupants' households annual gross income.

(2) Affordable home ownership projects under this subdivision must be subject to a federal, state, or local government housing agency's affordable housing program, or a local government's regulatory agreement or legally binding restriction, which sets affordable units aside for home owners at a defined maximum percentage of the area median income.

(3) "Area median income" means, for purposes of this subdivision, the area median income for the primary metropolitan statistical area, or for the county if located outside a metropolitan statistical area, as determined by the United States department of housing and urban development, or its successor, for a family of four, as adjusted for family size.

BCP Application Summary (for DEC use only)

Site Name: Former Adhesive Products Corporation **Site Address:** 1660 Boone Avenue
City: Bronx **County:** Bronx **Zip:** 10460

Tax Block & Lot
Section (if applicable): 11 **Block:** 3015 **Lot:** 1

Requestor Name: JJS Boone LLC **Requestor Address:** 511 Canal Street, Suite 500
City: New York, NY **Zip:** 10013 **Email:** js@baronemanagement.com

Requestor's Representative (for billing purposes)
Name: John Silviano **Address:** 511 Canal Street, Suite 500
City: New York, NY **Zip:** 10013 **Email:** js@baronemanagement.com

Requestor's Attorney
Name: Steven C. Russo **Address:** 200 Park Avenue
City: New York, NY **Zip:** **Email:** russos@gtlaw.com

Requestor's Consultant
Name: Kevin Kleaka **Address:** 170 Keyland Court
City: Bohemia, New York **Zip:** 11716 **Email:** kkleaka@impactenvironmental.com

Percentage claimed within an En-Zone: ☐ **0%** ☐ **<50%** ☐ **50-99%** ☑ **100%**

DER Determination: ☐ Agree ☐ Disagree

Requestor's Requested Status: ☑ **Volunteer** ☐ **Participant**

DER/OGC Determination: ☐ Agree ☐ Disagree
Notes:

For NYC Sites, is the Requestor Seeking Tangible Property Credits: ☑ Yes ☐ No

Does Requestor Claim Property is Upside Down: ☐ Yes ☑ No

DER/OGC Determination: ☐ Agree ☐ Disagree ☐ Undetermined

Notes:

Does Requestor Claim Property is Underutilized: ☐ Yes ☑ No

DER/OGC Determination: ☐ Agree ☐ Disagree ☐ Undetermined

Notes:

Does Requestor Claim Affordable Housing Status: ☐ Yes ☑ No ☐ Planned, No Contract

DER/OGC Determination: ☐ Agree ☐ Disagree ☐ Undetermined

Notes:

Appendix B: JJS Boone LLC Corporate Documents

NYS Department of State

Division of Corporations

Entity Information

The information contained in this database is current through November 4, 2019.

Selected Entity Name: JJS BOONE LLC
Selected Entity Status Information

Current Entity Name:	JJS BOONE LLC
DOS ID #:	5444140
Initial DOS Filing Date:	NOVEMBER 15, 2018
County:	NEW YORK
Jurisdiction:	NEW YORK
Entity Type:	DOMESTIC LIMITED LIABILITY COMPANY
Current Entity Status:	ACTIVE

Selected Entity Address Information

DOS Process (Address to which DOS will mail process if accepted on behalf of the entity)

JJS BOONE LLC
511 CANAL STREET SUITE 500
NEW YORK, NEW YORK, 10013

Registered Agent

NONE

This office does not require or maintain information regarding the names and addresses of members or managers of nonprofessional limited liability companies. Professional limited liability companies must include the name(s) and address(es) of the original members, however this information is not recorded and only available by viewing the certificate.

***Stock Information**

# of Shares	Type of Stock	$ Value per Share
No Information Available		

*Stock information is applicable to domestic business corporations.

Name History

Filing Date	Name Type	Entity Name
NOV 15, 2018	Actual	JJS BOONE LLC

A **Fictitious** name must be used when the **Actual** name of a foreign entity is unavailable for use in New York State. The entity must use the fictitious name when conducting its activities or business in New York State.

NOTE: New York State does not issue organizational identification numbers.

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ARTICLES OF ORGANIZATION
OF
JJS BOONE LLC

Under Section 203 of the Limited Liability Company Law

FIRST: The name of the limited liability company is:

JJS BOONE LLC

SECOND: To engage in any lawful act or activity within the purposes for which limited liability companies may be organized pursuant to Limited Liability Company Law provided that the limited liability company is not formed to engage in any act or activity requiring the consent or approval of any state official, department, board, agency, or other body without such consent or approval first being obtained.

THIRD: The county, within this state, in which the office of the limited liability company is to be located is ALBANY.

FOURTH: The Secretary of State is designated as agent of the limited liability company upon whom process against it may be served. The address within or without this state to which the Secretary of State shall mail a copy of any process against the limited liability company served upon him or her is:

JJS BOONE LLC
511 CANAL STREET SUITE 500
NEW YORK, NY 10013

FIFTH: The existence of the limited liability company shall begin upon filing of these Articles of Organization with the Department of State.

SIXTH: The limited liability company shall have a perpetual existence.

SEVENTH: The limited liability company shall defend, indemnify and hold harmless all members, managers, and former members and managers of the limited liability company against expenses (including attorney's fees, judgments, fines, and amounts paid in settlement) incurred in connection with any claims, causes of action, demands, damages, liabilities of the limited liability company, and any pending or threatened action, suit, or proceeding. Such indemnification shall be made to the fullest extent permitted by the laws of the State of New York, provided that such acts or omissions which gives rise to the cause of action or proceedings occurred while the Member or Manager was in performance of his or her duties for the limited liability company and was not as a result of his or her fraud, gross negligence, willful misconduct or a wrongful taking. The indemnification provided herein shall inure to the benefit of successors, assigns, heirs, executors, and the administrators of any such person.

I certify that I have read the above statements, I am authorized to sign these Articles of Organization, that the above statements are true and correct to the best of my knowledge and belief and that my signature typed below constitutes my signature.

JOHN SILVIANO, ORGANIZER (signature)

JOHN SILVIANO , ORGANIZER

Filed by:
INTERSTATE FILINGS LLC
2071 FLATBUSH AVENUE
SUITE 165
BROOKLYN, NY 11234

INTERSTATE FILINGS LLC (LN)
DRAWDOWN
CUSTOMER REF# 72519

FILED WITH THE NYS DEPARTMENT OF STATE ON: 11/15/2018
FILE NUMBER: 181115010294; DOS ID: 5444140

FOURTH AMENDMENT
TO CONTRACT OF SALE

This FOURTH AMENDMENT TO CONTRACT OF SALE (this "**Amendment**") made as of the 4th day of December, 2019, by and between RUSSA REALTY CORP., having an address c/o 1660-1670 Boone Avenue, Bronx, New York 10460 (**Seller**"), JJS BOONE LLC, having an address at c/o Barone Management, 511 Canal Street, Suite 500, New York, New York 10013 ("**Purchaser**"), and acknowledged by SUTTON LAND TITLE AGENCY, having an address at 515 Rockaway Avenue, Valley Stream, New York 11581 (**"Escrowee"**). Seller and the Purchaser are collectively referred to as the **"Parties"**.

W I T N E S S E T H

WHEREAS, Seller and Purchaser entered into that certain Contract of Sale, dated as of November 19, 2018 (the **"Original Contract"**), as amended by that certain First Amendment to Contract of Sale, dated as of April 17, 2019 (the **"First Amendment"**), that certain Second Amendment to Contract of Sale, dated as of June 18, 2019 (the **"Second Amendment"**) and that certain Third Amendment to Contract of Sale, dated as of October 2, 2019 (the **"Third Amendment"**, and the Original Contract, as amended by the First Amendment, the Second Amendment and the Third Amendment, collectively, the **"Contract"**), each with respect to the purchase and sale of the real property and improvements located at 1660-1670 Boone Avenue, New Bronx, New York, as more fully described in the Contract; and

WHEREAS, the Parties desire to modify the Contract, on the terms more particularly hereinafter set forth.

NOW, THEREFORE, in consideration of the premises contained herein, ten ($10) dollars and other good and valuable consideration, the receipt and sufficiency of which are hereby mutually acknowledged, the parties hereto hereby covenant and agree as follows:

1. Definitions. Capitalized terms used, but not otherwise defined in this Amendment, shall have the respective meanings ascribed to such terms in the Contract.

2. Deposits. Seller, Purchaser and Escrowee acknowledge that as of the date hereof, (a) Purchaser has tendered the Contract Downpayments in the aggregate amount of Three Hundred Twenty-Five Thousand and 00/100 Dollars ($325,000.00); (b) from the Downpayment, the sum of Two Hundred Twenty-Five Thousand and 00/100 Dollars ($225,000.00) has been released from escrow and paid to Seller pursuant to the Contract, and (c) Escrowee is holding the remaining One Hundred Thousand and 00/100 Dollars ($100,000.00) of the 1st Downpayment in escrow pursuant to the terms and conditions of the Contract.

3. Modifications. The Contract is hereby modified as follows:

(a) On the date hereof, Escrowee shall release and pay to Seller from the Downpayment the sum of Fifty Thousand and 00/100 Dollars ($50,000.00).

(b) The Due Diligence Period shall be extended through March 26, 2020, and Purchaser shall have no further obligation to deposit any further Downpayments (including any obligation to tender a 2nd Downpayment). For the avoidance of doubt, if Purchaser terminates this Contract any time prior to the expiration of the Due Diligence Period, Purchaser shall be entitled to receive a refund of the entire portion of the Downpayment remaining in escrow (i.e., $50,000). If Purchaser does not terminate this Contract prior to the expiration of the Due Diligence Period, then the entire Downpayment of $325,000 shall be non-refundable to Purchaser (except to the extent Purchaser is entitled to a refund of the Downpayment pursuant to the terms of the Contract).

(c) The scheduled date for Closing shall be May 1, 2020. Notwithstanding the foregoing or anything else in the Contract, Purchaser shall have the right to accelerate the Closing by delivery of notice to Seller thereof (the **"Acceleration Notice"**), to a date which is no earlier than thirty (30) days following the date of Acceleration Notice. If Purchaser elects to accelerate the Closing as aforesaid prior to the expiration of the Due Diligence Period, then Purchaser's Acceleration Notice shall also constitute a termination of the Due Diligence Period. Time is of the essence as to the Parties' obligation to close on the scheduled date for Closing.

(d) Section 3(d) of the Third Amendment is modified to provide that (i) the Vacate Date shall be the date which is fourteen (14) days following the Closing Date, and (ii) the second sentence of said Section 3(d) is deleted in its entirety. For the avoidance of doubt, the remainder of said Section 3(d) (not modified by this Amendment) shall remain in full force and effect.

4. Ratification of Contract. Except as amended by this Amendment, all of the terms, covenants and conditions of the Contract are ratified, confirmed and approved and shall remain in full force and effect. All references in the Contract or the exhibits or schedules thereto to the Contract shall be deemed to mean the Contract as amended by this Amendment.

5. Captions and Headings. All articles and section headings or captions contained in this Amendment are as a matter of convenience and for reference and in no way define, limit extend or describe the scope of this Amendment or the intent of any provision hereof.

6. No Other Amendments. Except as expressly modified herein, the Contract shall continue in full force and effect.

7. Counterparts. This Amendment may be executed by the parties hereto in one or more counterparts, each of which shall be an original and all of which shall constitute one and the same agreement. In addition, signatures to this Amendment transmitted by telecopy or electronic mail shall be valid and effective to bind the party so signing. Each party agrees to promptly deliver to the other party an executed original counterpart to this Amendment with its actual signature, but a failure to do so shall not affect the enforceability of this Amendment, it being expressly agreed that each party to this Amendment shall be bound by its own telecopied or electronically mailed signature and shall accept the telecopied or electronically mailed signature.

IN WITNESS WHEREOF, the parties have executed this Amendment as of the date first above written.

SELLER:
RUSSA REALTY CORP.

By: Basanti Mitra
Name: BASANTI MITRA
Title: Co-Owner

PURCHASER:
JJS BOONE LLC

By:_____
Name:
Title:

ESCROWEE:
SUTTON LAND TITLE AGENCY

By:_____
Name:
Title:

NYMPCO CORP., hereby joins this Agreement solely for the purpose of confirming its obligations as Guarantor pursuant to the provisions of Section 3(d) of this Agreement.

GUARANTOR:

NYMPCO CORP.

By: Basanti Mitra
Name: BASANTI MITRA
Title: OWNER

IN WITNESS WHEREOF, the parties have executed this Amendment as of the date first above written.

SELLER:
RUSSA REALTY CORP.

By:_____
Name:
Title:

PURCHASER:
JJS BOONE LLC

By:_____
Name: John Simons
Title: Member

ESCROWEE:
SUTTON LAND TITLE AGENCY

By:_____
Name:
Title:

NYMPCO CORP., hereby joins this Agreement solely for the purpose of confirming its obligations as Guarantor pursuant to the provisions of Section 3(d) of this Agreement.

GUARANTOR:

NYMPCO CORP.

By: _____
Name:
Title:

IN WITNESS WHEREOF, the parties have executed this Amendment as of the date first above written.

SELLER:
RUSSA REALTY CORP.

By:_____
Name:
Title:

PURCHASER:
JJS BOONE LLC

By:_____
Name:
Title:

ESCROWEE:
SUTTON LAND TITLE AGENCY

By:_____
Name: Bharat T. Harry Jr.
Title: Senior National Underwriter

NYMPCO CORP., hereby joins this Agreement solely for the purpose of confirming its obligations as Guarantor pursuant to the provisions of Section 3(d) of this Agreement.

GUARANTOR:

NYMPCO CORP.

By: _____
Name:
Title:

Appendix C: Proposed Development Drawings

1660 BOONE AVENUE
BRONX, NY 10460



OWNER:

JJS BOONE LLC
511 CANAL ST. 5TH FLOOR
NEW YORK, NY 10013
(646)-476-9228

ARCHITECT:

STEPHEN B. JACOBS GROUP, P.C.
ARCHITECTS AND PLANNERS
381 PARK AVE SOUTH
NEW YORK, N.Y. 10016
(212)-421-3712

STRUCTURAL ENGINEER:

RODNEY D. GIBBLE
CONSULTING ENGINEERS
18 WEST 21ST STREET, 3RD FLOOR
NEW YORK, NY 10010
(212)-989-2853

M.E.P. ENGINEER:

SIDERIS KEFALAS ENGINEERS, P.C.
215-22 NORTHERN BLVD. SUITE 1
BAYSIDE, NY 11361
(718)-244-9091

DOB FILING NB#210180089

DATE: 09/23/19

SCHEDULE OF DRAWINGS

NO.	TITLE	ISSUE DATE	DOB/50% CD	85% PROGRESS	90% CD		
ARCHITECTURAL							
A-001 .00	TITLE SHEET	10/08/19	•	•	•		
Z-001 .00	ZONING ANALYSIS	09/23/19	•	•			
Z-002 .00	ZONING ANALYSIS	09/23/19	•	•			
Z-003 .00	ZONING GROSS FLOOR AREA PLANS	09/23/19	•	•			
Z-004 .00	ZONING MECHANICAL DEDUCTIONS	09/23/19	•	•			
Z-005 .00	ZONING EXTERIOR WALL ZONE GREEN DEDUCTIONS	09/23/19	•	•			
A-010 .00	SITE SURVEY	10/08/19	•	•	•		
A-011 .00	GENERAL NOTES	10/08/19	•	•	•		
A-020 .00	BUILDING CODE ANALYSIS	10/08/19	•	•	•		
A-021 .00	BUILDING CODE ANALYSIS	10/08/19	•	•	•		
A-030 .00	ACCESSIBILITY REQUIREMENTS	10/08/19	•	•	•		
A-031 .00	ACCESSIBILITY REQUIREMENTS	10/08/19		•	•		
A-090 .00	SITE PLAN	10/08/19	•	•	•		
A-100 .00	CELLAR FLOOR PLAN	10/08/19	•	•	•		
A-101 .00	1ST FLOOR PLAN	10/08/19	•	•	•		
A-102 .00	2ND FLOOR (ADMIN.) FLOOR PLAN	10/08/19	•	•	•		
A-103 .00	3RD-5TH FLOOR PLAN (TYPICAL)	10/08/19	•	•	•		
A-106 .00	6TH FLOOR PLAN	10/08/19	•	•	•		
A-107 .00	ROOF FLOOR PLAN	10/08/19	•	•	•		
A-108 .00	EMR ROOF PLAN	10/08/19	•	•	•		
A-109 .00	ELEVATOR OVERRUN BULKHEAD ROOF PLAN	10/08/19	•	•	•		
A-110 .00	CELLAR FINISH PLAN	10/08/19		•	•		
A-111 .00	1ST FLOOR FINISH PLAN	10/08/19		•	•		
A-112 .00	2ND FLOOR FINISH PLAN	10/08/19		•	•		
A-113 .00	3RD-5TH FLOOR FINISH PLAN (TYPICAL)	10/08/19		•	•		
A-114 .00	6TH FLOOR FINISH PLAN	10/08/19		•	•		
A-115 .00	ROOF FLOOR FINISH PLAN	10/08/19		•	•		
A-116 .00	EMR FLOOR FINISH PLAN	10/08/19		•	•		
A-200 .00	CELLAR RCP	10/08/19	•	•	•		
A-201 .00	FIRST FLOOR RCP	10/08/19	•	•	•		
A-202 .00	2ND FLOOR (ADMIN) RCP	10/08/19	•	•	•		
A-203 .00	3RD - 5TH FLOOR RCP (TYPICAL)	10/08/19	•	•	•		
A-205 .00	6TH FLOOR RCP	10/08/19	•	•	•		
A-206 .00	ROOF LEVEL RCP	10/08/19	•	•	•		
A-207 .00	EMR BULKHEAD RCP	10/08/19	•	•	•		
A-250 .00	NORTH ELEVATION	10/08/19	•	•	•		
A-251 .00	EAST ELEVATION	10/08/19	•	•	•		
A-252 .00	SOUTH ELEVATION	10/08/19	•	•	•		
A-253 .00	WEST ELEVATION	10/08/19	•	•	•		
A-254 .00	BULKHEAD ELEVATIONS	10/08/19		•	•		
A-255 .00	MECHANICAL AREA ELEVATIONS	10/08/19		•	•		
A-310 .00	STAIR PLANS AND SECTIONS	10/08/19	•	•	•		
A-311 .00	STAIR PLANS AND SECTIONS	10/08/19		•	•		
A-315 .00	ELEVATOR SHAFT SECTION	10/08/19		•	•		
A-320 .00	BUILDING SECTIONS	10/08/19	•	•	•		
A-321 .00	BUILDING SECTIONS	10/08/19	•	•	•		
A-322 .00	BUILDING SECTIONS	10/08/19	•	•	•		
A-324 .00	BUILDING SECTIONS	10/08/19	•	•	•		
A-400 .00	WALL SECTIONS	10/08/19		•	•		
A-401 .00	WALL SECTIONS	10/08/19		•	•		
A-402 .00	WALL SECTIONS	10/08/19		•	•		
A-420 .00	EXTERIOR WALL DETAILS	10/08/19		•	•		
A-430 .00	ROOF DETAILS	10/08/19		•	•		
A-500 .00	DOOR SCHEDULE	10/08/19	•	•	•		
A-510 .00	WINDOW SCHEDULE	10/08/19	•	•	•		
A-520 .00	PARTITION TYPES	10/08/19	•	•	•		
A-521 .00	PARTITION DETAILS	10/08/19		•	•		
A-530 .00	FINISH, PLUMBING FIXTURE, AND ACCESSORY SCHEDULES	10/08/19		•	•		
A-800 .00	CELLAR SLAB	10/08/19		•	•		
A-801 .00	1ST FLOOR EOS	10/08/19		•	•		
A-802 .00	2ND FLOOR (ADMIN) EOS	10/08/19		•	•		
A-803 .00	THIRD FLOOR EOS	10/08/19		•	•		
A-804 .00	EOS 4TH - 6TH FLR	10/08/19		•	•		
A-805 .00	ROOF EOS	10/08/19		•	•		
A-806 .00	BULKHEAD EOS	10/08/19		•	•		
A-807 .00	EMR ROOF EOS	10/08/19		•	•		
ENERGY CODE							
EN-001 .00	ENERGY ANALYSIS	09/23/19	•	•			
EN-002 .00	ENERGY ANALYSIS	09/23/19	•	•			
EN-003 .00	ENERGY ANALYSIS	09/23/19	•	•			
EN-010 .00	MECHANICAL ENERGY COVER PAGE	08/02/19	•				
EN-011 .00	MECHANICAL ENERGY COMPLIANCE CERTIFICATE	08/02/19	•				
EN-012 .00	ENERGY ANALYSIS	08/02/19	•				
EN-013 .00	ENERGY ANALYSIS	08/02/19	•				
EN-014 .00	LIGHTING COMCHECK	08/02/19	•				
EN-015 .00	CELLAR LIGHTING PLAN	08/02/19	•				
EN-016 .00	FIRST FLOOR LIGHTING PLAN	08/02/19	•				
EN-017 .00	SECOND FLOOR LIGHTING PLAN	08/02/19	•				
EN-018 .00	THIRD THRU FIFTH FLOOR LIGHTING PLAN	08/02/19	•				
EN-019 .00	SIXTH FLOOR LIGHTING PLAN	08/02/19	•				
EN-020 .00	ROOF LIGHTING PLAN	08/02/19	•				
EN-021 .00	ELEVATOR OVERRUN BULKHEAD LIGHTING PLAN	08/02/19	•				

SCHEDULE OF DRAWINGS

NO.	TITLE	ISSUE DATE	DOB/50% CD	85% PROGRESS	90% CD		
STRUCTURAL							
S-100 .00	1ST FLOOR FRAMING PLAN W/ COLUMN GEOMETRY & BOTTOM BARS	09/20/19	•		•		
S-101 .00	1ST FLOOR FRAMING PLAN W/ NORTH - SOUTH TOP BARS	09/20/19	•		•		
S-102 .00	1ST FLOOR FRAMING PLAN W/ EAST-WEST TOP BARS	09/20/19	•		•		
S-103 .00	2ND FLOOR FRAMING PLAN W/ COLUMN GEOMETRY & BOTTOM BARS	09/20/19	•		•		
S-104 .00	2ND FLOOR FRAMING PLAN W/ NORTH - SOUTH TOP BARS	09/20/19	•		•		
S-105 .00	2ND FLOOR FRAMING PLAN W/ EAST- WEST TOP BARS	09/20/19	•		•		
S-106 .00	3RD FLOOR FRAMING PLAN W/ COLUMN GEOMETRY & BOTTOM BARS	09/20/19	•		•		
S-107 .00	3RD FLOOR FRAMING PLAN W/ NORTH - SOUTH TOP BARS	09/20/19	•		•		
S-108 .00	3RD FLOOR FRAMING PLAN W/ EAST - WEST TOP BARS	09/20/19	•		•		
S-109 .00	TYPICAL (4TH - 6TH) FLOOR FRAMING PLAN w/ COLUMN GEOMETRY & BOTTOM BARS	09/20/19	•		•		
S-110 .00	TYPICAL (4TH - 6TH) FLOOR FRAMING PLAN w/ NORTH-SOUTH TOP BARS	09/20/19	•		•		
S-111 .00	TYPICAL (4TH - 6TH) FLOOR FRAMING PLAN w/ EAST-WEST TOP BARS	09/20/19	•		•		
S-112 .00	ROOF FRAMING PLAN W/ COLUMN GEOMETRY & BOTTOM BARS	09/20/19	•		•		
S-113 .00	ROOF FRAMING PLAN W/ NORTH - SOUTH TOP BARS	09/20/19	•		•		
S-114 .00	ROOF FRAMING PLAN W/ EAST - WEST TOP BARS	09/20/19	•		•		
S-115 .00	EMR & BULKHEAD FRAMING PLANS	09/20/19	•		•		
S-200 .00	GENERAL NOTES & DESIGN CRITERIA	09/20/19	•		•		
S-201 .00	COLUMN SCHEDULE & DETAILS	09/20/19	•		•		
S-202 .00	SHEARWALL SCHEDULE & DETAILS	09/20/19	•		•		
S-203 .00	TYPICAL DETAILS	09/20/19	•		•		
MECHANICAL							
M-050 .00	MECHANICAL COVER PAGE	09/25/19	•		•		
M-100 .00	CELLAR MECHANICAL PLAN	09/25/19	•		•		
M-101 .00	FIRST FLOOR MECHANICAL PLAN	09/25/19	•		•		
M-102 .00	SECOND FLOOR (ADMIN.) MECHANICAL PLAN	09/25/19	•		•		
M-103 .00	THIRD THRU FIFTH FLOOR MECHANICAL PLAN	09/25/19	•		•		
M-104 .00	SIXTH FLOOR MECHANICAL PLAN	09/25/19	•		•		
M-105 .00	ROOF FLOOR MECHANICAL PLAN	09/25/19	•		•		
M-106 .00	BULKHEAD ROOF MECHANICAL PLAN	09/25/19	•		•		
M-107 .00	ELEVATOR OVERRUN BULKHEAD ROOF MECHANICAL PLAN	09/25/19	•		•		
M-210 .00	VENTILATION RISER DIAGRAM	09/25/19	•		•		
M-220 .00	A/C REFRIGERANT AND CONTROL WIRING DIAGRAMS	09/25/19	•		•		
M-221 .00	A/C REFRIGERANT AND CONTROL WIRING DIAGRAMS	09/25/19	•		•		
M-222 .00	A/C REFRIGERANT AND CONTROL WIRING DIAGRAMS	09/25/19	•		•		
M-223 .00	A/C REFRIGERANT AND CONTROL WIRING DIAGRAMS	09/25/19	•		•		
M-224 .00	CONDENSATE DRAIN RISER DIAGRAM	09/25/19			•		
M-300 .00	MECHANICAL EQUIPMENT SCHEDULES	09/25/19	•		•		
M-301 .00	MECHANICAL EQUIPMENT SCHEDULES	09/25/19	•		•		
M-400 .00	MECHANICAL DETAILS	09/25/19	•		•		
M-401 .00	MECHANICAL DETAILS	09/25/19	•		•		
ELECTRICAL							
E-100 .00	CELLAR ELECTRICAL PLAN	10/01/19			•		
E-101 .00	FIRST FLOOR ELECTRICAL PLAN	10/01/19			•		
E-102 .00	SECOND FLOOR ELECTRICAL PLAN	10/01/19			•		
E-103 .00	THIRD THRU FIFTH FLOOR ELECTRICAL PLAN	10/01/19			•		
E-104 .00	SIXTH FLOOR ELECTRICAL PLAN	10/01/19			•		
E-105 .00	ROOF ELECTRICAL PLAN	10/01/19			•		
E-106 .00	BULKHEAD ELECTRICAL PLAN	10/01/19			•		
E-107 .00	ELEVATOR OVERRUN BULKHEAD ELECTRICAL PLAN	10/01/19			•		
E-150 .00	CELLAR LIGHTING PLAN	10/01/19			•		
E-151 .00	FIRST FLOOR LIGHTING PLAN	10/01/19			•		
E-152 .00	SECOND FLOOR LIGHTING PLAN	10/01/19			•		
E-153 .00	THIRD THRU FIFTH FLOOR LIGHTING PLAN	10/01/19			•		
E-154 .00	SIXTH FLOOR LIGHTING PLAN	10/01/19			•		
E-155 .00	ROOF LIGHTING PLAN	10/01/19			•		
E-156 .00	ELEVATOR OVERRUN BULKHEAD LIGHTING PLAN	10/01/19			•		
E-200 .00	ELECTRIC RISER DIAGRAM	10/01/19			•		
E-300 .00	PANEL SCHEDULE	10/01/19			•		
E-301 .00	PANEL SCHEDULE	10/01/19			•		
E-302 .00	PANEL SCHEDULE	10/01/19			•		
E-303 .00	ELECTRICAL NOTES AND DETAILS	10/01/19			•		
E-400 .00	ELECTRICAL NOTES AND DETAILS	10/01/19			•		
E-401 .00	ELECTRICAL NOTES AND DETAILS	10/01/19			•		
FIRE ALARM							
FA-050 .00	FIRE ALARM NOTES AND DETAILS	09/25/19			•		
FA-100 .00	CELLAR FIRE ALARM PLAN	09/25/19			•		
FA-101 .00	FIRST FLOOR FIRE ALARM PLAN	09/25/19			•		
FA-102 .00	SECOND FLOOR FIRE ALARM PLAN	09/25/19			•		
FA-103 .00	THIRD THRU FIFTH FLOOR FIRE ALARM PLAN	09/25/19			•		
FA-104 .00	SIXTH FLOOR FIRE ALARM PLAN	09/25/19			•		
FA-105 .00	ROOF FIRE ALARM PLAN	09/25/19			•		
FA-106 .00	BULKHEAD ROOF FIRE ALARM PLAN	09/25/19			•		
FA-107 .00	ELEVATOR OVERRUN BULKHEAD FIRE ALARM PLAN	09/25/19			•		
FA-200 .00	FIRE ALARM RISER DIAGRAM	09/25/19			•		
FO-100 .00	FOUNDATION PLAN	09/20/19	•		•		
FO-101 .00	FOUNDATION TYPICAL DETAILS AND SECTIONS	09/20/19	•		•		

SCHEDULE OF DRAWINGS

NO.	TITLE	ISSUE DATE	DOB/50% CD	85% PROGRESS	90% CD		
PLUMBING							
P-050 .00	PLUMBING COVER PAGE	09/20/19	•		•		
P-100 .00	CELLAR PLUMBING PLAN	09/20/19	•		•		
P-101 .00	FIRST FLOOR PLUMBING PLAN	09/20/19	•		•		
P-102 .00	SECOND FLOOR (ADMIN.) PLUMBING PLAN	09/20/19	•		•		
P-103 .00	THIRD THRU FIFTH FLOOR PLUMBING PLAN	09/20/19	•		•		
P-104 .00	SIXTH FLOOR PLUMBING PLAN	09/20/19	•		•		
P-105 .00	ROOF FLOOR PLUMBING PLAN	09/20/19	•		•		
P-106 .00	BULKHEAD ROOF PLUMBING PLAN	09/20/19	•		•		
P-107 .00	ELEVATOR OVERRUN BULKHEAD ROOF PLUMBING PLAN	09/20/19	•		•		
P-200 .00	SANITARY RISER DIAGRAM	09/20/19	•		•		
P-210 .00	STORM WATER RISER DIAGRAM	09/20/19	•		•		
P-220 .00	DOMESTIC WATER RISER DIAGRAM	09/20/19	•		•		
P-300 .00	PLUMBING EQUIPMENT	09/20/19	•		•		
P-400 .00	PLUMBING DETAILS	09/20/19	•		•		
P-401 .00	PLUMBING DETAILS	09/20/19	•		•		
SPRINKLER							
SP-010 .00	SPRINKLER NOTES, LEGEND, PLOT PLAN, AND RISER DIAGRAM	08/02/19	•		•		
SP-100 .00	CELLAR SPRINKLER PLAN	08/02/19	•		•		
SP-101 .00	FIRST FLOOR SPRINKLER PLAN	08/02/19	•		•		
SP-102 .00	SECOND FLOOR SPRINKLER PLAN	08/02/19	•		•		
SP-103 .00	THIRD THRU FIFTH FLOOR SPRINKLER PLAN	08/02/19	•		•		
SP-104 .00	SIXTH FLOOR SPRINKLER PLAN	08/02/19	•		•		
SP-105 .00	ROOF SPRINKLER PLAN	08/02/19	•		•		
SP-200 .00	SPRINKLER/STANDPIPE DETAILS	08/02/19	•		•		
SP-400 .00	SPRINKLER/STANDPIPE DETAILS	08/02/19	•		•		

GENERAL NOTES

LIST OF SPECIAL INSPECTIONS:
MASONRY PER BC 1704.5
WALL PANELS, CURTAIN WALLS, AND VENEERS PER BC 1704.10
EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) PER BC 1704.13
FIRE-RESISTANT PENETRATIONS AND JOINTS PER BC 1704.27

LIST OF PROGRESS INSPECTIONS:
ENERGY CODE COMPLIANCE INSPECTIONS PER BC 110.3.5
FIRE RESISTANCE RATED CONSTRICTION PER BC 110.3.4

LIST OF ENERGY CODE PROGRESS INSPECTIONS:
PROTECTION OF EXPOSED FOUNDATION INSULATION (IA1), (IIA1)
INSULATION PLACEMENT AND R VALUES (IA2), (IIA2)
FENESTRATION U-FACTOR AND PRODUCT RATING (IA3), (IIA3)
FENESTRATION AIR LEAKAGE (IA4), (IIA4)
FENESTRATION AREAS (IA5), (IIA5)
AIR SEALING AN INSULATION - VISUAL (IA6), (IIA6)
VESTIBULES (IB1), (IIB1)

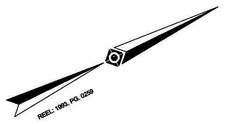
RELATED FILINGS:
MECHANICAL, PLUMBING, STRUCTURAL TO BE FILED AS SEPARATE DOCUMENTS THROUGH DOB NOW.

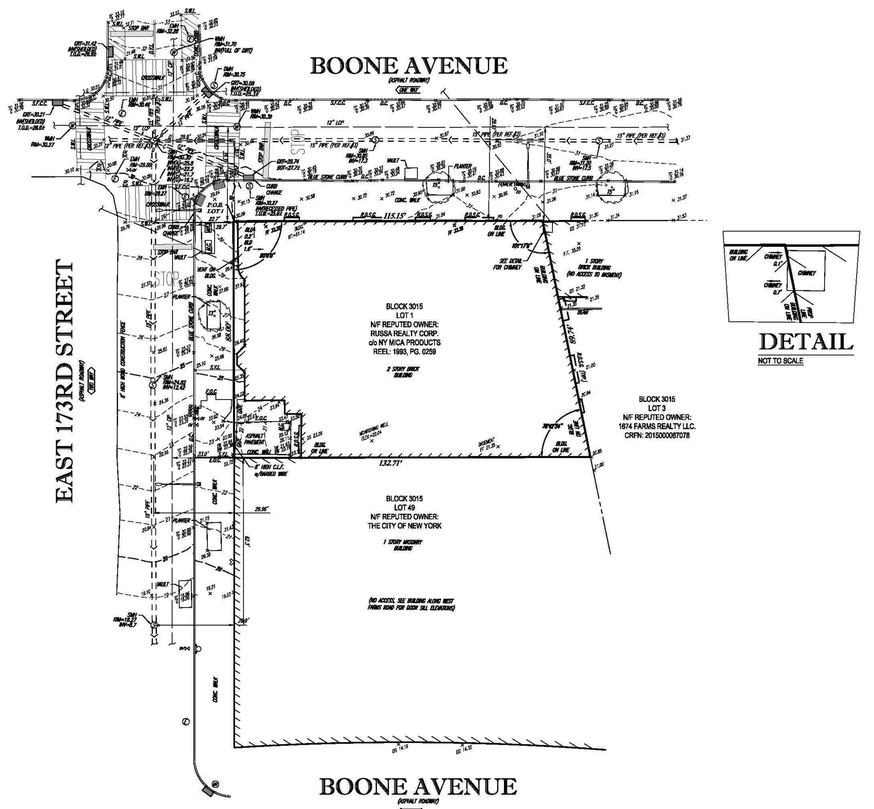
SUBSEQUENT FILINGS:
SPRINKLER/STANDPIPE
FIRE ALARM
BUILDERS PAVEMENT PLAN

NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET
	08/02/19	DOB FILING / 50% CD



VICINITY MAP
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DETAIL
NOT TO SCALE

NOTES:

1. PROPERTY KNOWN AS LOT 1, BLOCK 3015, AS SHOWN ON THE NEW YORK CITY DIGITAL TAX MAP OF THE BOROUGH & COUNTY OF BRONX, CITY AND STATE OF NEW YORK.
2. AREA = 10,907 S.F. OR 0.250 AC.
3. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE ASBUILT PLANS AND UTILITY MARKOUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES. CONTROL POINT ASSOCIATES, INC. DOES NOT GUARANTEE THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED.
4. THIS PLAN IS BASED ON INFORMATION PROVIDED BY A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC. AND OTHER REFERENCE MATERIAL AS LISTED HEREON.
5. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN.
6. BY GRAPHIC PLOTTING ONLY PROPERTY IS LOCATED IN FLOOD HAZARD ZONE X (OTHER FLOOD AREAS), (AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.) PER RCF, #2.
7. THE EXISTENCE OF UNDERGROUND STORAGE TANKS, IF ANY, WAS NOT KNOWN AT THE TIME OF THE FIELD SURVEY.
8. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88, BASED ON GPS OBSERVATIONS UTILIZING THE KEYSTONE VRS NETWORK (KEYNETGPS).
9. THERE WERE NO NATURAL STREAMS OR WATERCOURSES VISIBLE AT THE TIME OF THE FIELD SURVEY.
10. ENCROACHMENTS AND VAULTS, IF ANY, BELOW SURFACE NOT SHOWN HEREON.
11. THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTRUCTION OF ANY STRUCTURE, FENCE, PERMANENT ADDITION, ETC.
12. BUILDING DIMENSIONS SHOWN HEREON ARE MEASURED AT GROUND LEVEL OF BUILDING EXTERIOR.

REFERENCES:

1. THE NEW YORK CITY DIGITAL TAX MAP OF THE BOROUGH COUNTY OF BRONX, CITY AND STATE OF NEW YORK.
2. MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP, CITY OF NEW YORK, NEW YORK, BRONX, RICHMOND, NEW YORK, QUEENS AND KINGS COUNTIES," PANEL 84 OF 457, MAP NUMBER 36047C0084D, PRELIMINARY DATE: DECEMBER 6, 2013.
3. MAP SHOWING UNDERGROUND WATER & SEWER FACILITIES IN THE VICINITY PROVIDED BY THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF WATER AND SEWER OPERATIONS.
4. FINAL SECTION MAP NUMBER 11 AND RECORD MAP NUMBER 11 PROVIDED BY THE OFFICE OF THE PRESIDENT OF THE BOROUGH OF BRONX, TOPOGRAPHICAL BUREAU

LEGEND

124 / 120	EXISTING CONTOUR	F/O	FUEL OIL FILL CAP
123.45	EXISTING SPOT ELEVATION		STREET LIGHT
TC 123.45	EXIST. TOP OF CURB ELEVATION		SIGN
G 122.55	EXIST. GUTTER ELEVATION		CATCH BASIN OR INLET
TW 123.45	EXIST. TOP OF WALL ELEVATION	FLOW	FLOW DIRECTION
BW 122.55	EXIST. BOTTOM OF WALL ELEVATION		DECIDUOUS TREE & TRUNK SIZE
FF 123.45	EXIST. FINISHED FLOOR ELEVATION	C.L.F.	CHAIN LINK FENCE
DE 123.45	UNCONFIRMED DOOR SILL ELEVATION	D.C.	DEPRESSED CURB
RM=125.00 (124.30)	RIM NAVD 88 (BOROUGH SEWER DATUM)	E.O.C.	EDGE OF CONC.
INV.=123.00 (122.4)	INV. NAVD 88 (BOROUGH SEWER DATUM)	M.C.	METAL COVER
OH	OVERHEAD WIRES	(TYP.)	TYPICAL
W	UNCONFIRMED LOC. UNDERGROUND WATER LINE	D.W.P.	DETECTABLE WARNING PAD
	DEPRESSED CURB	S.W.L.	SOLID WHITE LINE
VALVE	UNKNOWN VALVE	D.Y.L.	DOUBLE YELLOW LINE
GV	GAS VALVE	HT.	HEIGHT
SMH	SANITARY/SEWER MANHOLE	BLDG.	BUILDING
EMH	ELECTRIC MANHOLE	T.O.W.	WATER LEVEL
UNK	UNKNOWN MANHOLE	F.O.D.	FILLED w/DEBRIS
WMH	WATER MANHOLE	EL.	ELEVATION
		1.0'	OFFSET OF STRUCTURE AT GROUND LEVEL RELATIVE TO PROPERTY LINE

UTILITIES:

THE FOLLOWING COMPANIES WERE NOTIFIED BY THE NEW YORK CITY ONE-CALL SYSTEM (1-800-272-4480) AND REQUESTED TO MARK OUT UNDERGROUND FACILITIES AFFECTING AND SERVICING THIS SITE. THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE UTILITY COMPANIES RESPONSE TO THIS REQUEST.
SERIAL NUMBER(S): 182912999

UTILITY COMPANY	PHONE NUMBER
CABLEVISION OF BRONX	(800) 262-8600
CONSOLIDATED EDISON CO. OF N.Y.	(800) 282-8600

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.

ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.

PREPARED BY:

CONTROL POINT ASSOCIATES INC. PC
14 PENN PLAZA, 225 WEST 34TH STREET
NEW YORK, NY 10122
646.780.0411 - 908.668.9595 FAX
WWW.CPASURVEY.COM

NO.	DATE	BY	DESCRIPTION	APPROVED
1	07-16-2019	K.V.G.	ADDITIONAL GRADES AND LOCATIONS	J.D.S.

REVISIONS

PROJECT NAME
BARONE MANAGEMENT LLC
1660 BOONE AVENUE
LOT 1 / BLOCK 3015
BOROUGH OF BRONX, COUNTY
CITY AND STATE OF NEW YORK

DRAWING TITLE
BOUNDARY & TOPOGRAPHIC SURVEY

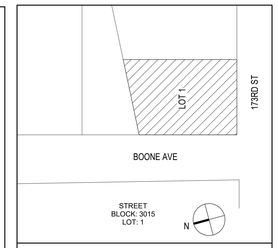
SEAL & SIGNATURE

NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED WITH BLUE INK SEAL

07-16-2019
JAMES D. SENS DATE
NEW YORK PROFESSIONAL LAND SURVEYOR #050846

FIELD DATE:	1-22-19
FIELD BK:	19-01
F. B. PAGE:	39
DATE:	1-29-2019
SCALE:	1"=20'
PROJECT No:	01-190024
DRAWING BY:	PRIMA
CHK BY:	T.J.M.
APPROVED BY:	J.P.C.
DWG No:	V-001.0.0
CAD FILE No:	01-190024-00
PAGE No:	1 OF 1

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NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET
	08/02/19	DOB FILING / 50% CD

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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
SITE SURVEY

Seal & Signature:

DATE:	10/08/19
PROJECT #:	1918
DWG SCALE:	
DRAWING NO.:	A-010.00

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10/8/2019 5:53:53 PM

GENERAL NOTES

1. All work shall conform to the requirements of the Construction Codes applicable in the project's jurisdiction, including but not limited to the Administrative Code, Building Code, Plumbing Code, Mechanical Code, Electrical Code, Fire Code, and Energy Code for the City of New York, NYC Noise Control Code, Rules of the Fire Department of New York (FDNY), Utility Company Requirements, Transit Agency Requirements, and the rules and regulations of all other agencies having jurisdiction.

2. The NYC Department of Buildings shall ensure compliance with all other applicable provisions of the NYC Zoning Resolution, The Administrative Code and any other relevant laws under jurisdiction irrespective of the plan(s)/configurations(s) not related to the relief granted.

3. All construction activities, including the Work, shall comply with all Local Laws, Buildings Bulletins, Technical Bulletins, Operations Policy and Procedures Notices, and any other supplemental rules and regulations that are issued by the City of New York and the NYC Department of Buildings.

4. All work shall conform to the best of trade practices.

5. Owner assumes no responsibility for actual conditions of items being removed or demolished.

6. General Contractor and each subcontractor must carry the minimum general liability, project liability, and worker's compensation insurance as required by the NYC Department of Buildings and the Owner.

7. General Contractor and each subcontractor shall check, confirm, and be responsible for all building opening clearances for the delivery, storage, and installation of all equipment and materials.

8. General Contractor must notify the Architect of any discrepancies, field conditions, dimensional inconsistencies, or the need for clarification prior to and during Construction.

9. General Contractor must provide all necessary protection against dirt, dust, and damage and shall also be responsible for keeping areas, including adjacent properties, clean and free of materials and debris at all times as the result of Construction activities.

10. Protection:

a. All work must be performed so as not to endanger the integrity of the building structure or adjacent properties.
b. Do not load or permit any part of any structure to be loaded to such an extent as to endanger its structural safety and stability.
c. Abide by and enforce all requirements regarding signs, security, fire protection and prevention, open flames, danger signals, barricades, safety lighting, and prohibition of smoking.
d. Provide and maintain temporary protection of the existing structure and premises designated to remain where demolition, removal, and new construction work is proposed, and where connections are made, materials stored and handled, and equipment staged and moved.
e. Provide and maintain temporary protection and support as required to assure the safety of the existing structure and premises, all construction personnel, and materials/finishes.
f. Prevent dust from rising and accumulating by wetting any masonry, concrete, and plaster that may be disturbed by Construction activities.
g. Provide adequate fire protection in accordance with the requirements of the local Fire Department and other agencies having jurisdiction.
h. The General Contractor will be responsible for all damage to the existing structure, adjacent properties, and contents therein by reason of the insufficiency of protection provided.
i. No structural components of the existing building shall be damaged, disturbed, altered, or removed unless indicated in the Construction documents.
j. The General Contractor is responsible for providing complete protection of all work areas directly adjacent to and otherwise affected by Construction activities for the duration of the project.
k. The General Contractor is responsible for the design, engineering, and installation of any and all temporary shoring required to provide complete installations.

11. Scheduling:

a. Before commencing any demolition, alterations, or construction work, the General Contractor must submit for review by the Architect and for acceptance by the Owner the order, staging sequence, and the beginning and completion dates for the various components of the proposed work.
b. The General Contractor must obtain the written consent of all parties affected by work that must take place outside of regular business hours (Mon. - Fri. 9am to 5pm).

12. The General Contractor shall be aware of the potential for galvanic action between dissimilar metals, particularly in damp or wet conditions. The General Contractor shall provide the appropriate barrier between such metals and use the appropriate fasteners where such conditions exist.

13. Within the building areas affected by Construction activities required in the Construction Documents are existing systems and equipment not associated with the proposed work. All such systems and equipment, whether indicated on the drawings or not, shall remain intact and undisturbed during execution of the work and Construction activities. In the event that damage to any such system or equipment is caused by Construction activities, the General Contractor shall be held responsible for repairs and/or the replacement as approved by the Architect and Owner and at no additional cost to the Owner.

14. Demolition and Removals:

a. Disconnect all utilities as required. Since areas of the existing premises will be occupied, no utilities shall be cut or removed unless other temporary connections are installed to provide uninterrupted service.
b. Chop and carefully cut holes and openings for ductwork, piping, mechanical equipment, and electrical devices where required for plumbing, conduits, etc. in existing construction using techniques and methods that will minimize dust, vibration, and noise, and will not adversely affect the structural stability of the existing construction.
c. Protection measures must be adhered to during demolition and removal activities, including dust protection.

15. Accident Prevention:

a. The Architect calls to the attention of the General Contractor and all subcontractors the accident prevention practices recommended by the Associated General Contractors of America, Inc., OSHA, and the requirements contained within the local, state, and federal laws and regulations.

16. Clean Up and Site Maintenance:

a. The project premises must be maintained in a neat and orderly condition and kept free from the accumulation of dust, dirt, waste materials, refuse, and rubbish during the project duration. Remove crates, cartons, packaging, and flammable materials and trash from the project premises immediately.
b. Areas of the project premises in which new construction and finishing work will be performed must be maintained and kept clean in a satisfactory condition.
c. Upon completion of Construction, remove all temporary protection and structures, barriers, fencing, scaffolding, barricades, surplus materials, trash, refuse, and rubbish from the project premises. Damp mop, dust, and broom sweep all project areas.

17. Air Quality:

a. Heating and Cooling: The proposed building shall be heated and cooled by a variable refrigerant flow (VRF) HVAC system. This system type does not emit stationary sources of air pollution and emissions.

18. Fire Protection Features:

a. The building shall be proposed with a fully automatic sprinkler system as designed and specified by the MEPF Engineer. The automatic sprinkler system shall comply with Chapter 9 of the NYC Building Code and the NYC Fire Code. The building shall be monitored by a central supervising station in accordance with these codes.
b. An approved fire alarm system shall be installed throughout the proposed building and shall comply with Chapter 9 of the NYC Building Code and the NYC Fire Code and the special inspection requirements of Chapter 17 of the NYC Building Code.

Occupant Safety Notes:

1. If the project site is occupied during construction, all work must comply with a filed and approved Tenant Protection Plan. Occupied areas must be separated from construction areas.

2. All Construction activities shall be performed in accordance with the rules and regulations of all agencies having jurisdiction, including the safety requirements of BC Chapter 33 "Safeguards During Construction or Demolition".

3. Any and all existing means of egress for the building occupants must be maintained and kept clean and clear of all obstructions, including but not limited to building materials, tools, packaging, rubbish, etc.

4. Fire Safety:

a. All building materials stored on the project premises, including exterior areas, must be secured in a locked area with access controlled by both the Owner and the General Contractor.
b. All building materials shall be stored in an orderly fashion.
c. All flammable materials must be kept tightly sealed in their respective containers and such containers and materials must be stored away from heat and open flame.
d. All flammable materials must be used and stored in adequately ventilated spaces.
e. Electrical power in the Construction areas must be shut off after working hours. All electrical power must be shut off where there is exposed conduit and wiring.
f. General Contractor is responsible for checking and securing any affected natural gas connections due to Construction activities and confirm no leakages are present during the project duration.
g. General Contractor is responsible for the safe handling and securing of any flammable gases used as the result of Construction activities.

5. Dust Control:

a. Debris, dirt, and dust are to be kept at a minimum and confined to the Construction area(s) only.
b. General Contractor must isolate the Construction area(s) from the remainder of the occupied premises by means of temporary partitions, temporary structures, or heavy-weight drop cloths depending on the nature of the Construction activity.
c. Debris, dirt, and dust must be cleaned and removed from the premises periodically to avoid excess accumulation.

6. Noise Control:

a. All Construction activities shall conform to the construction noise management requirements of the NYC Noise Control Code.

7. Utilities and Services:

a. Construction activities must not involve the interruption of heating, water, natural gas, telecommunications, and electrical services to the building occupants.

8. The Owner and General Contractor shall abide by occupant safety rules and regulations required by all agencies having jurisdiction during the project duration.

Building Department Notes:

1. This application does involve a change in use, egress, and occupancy.

2. All Construction shall be in accordance with the rules and regulations of the 2014 New York City Construction Codes, including all applicable Local Laws and amendments.

3. The Owner shall be responsible for the safe maintenance of the building and its facilities as per Administrative Code 28-301.1.

4. General Contractor must arrange for all necessary inspections and approvals for such.

5. General Contractor and all Subcontractors must provide all required Certificates of Insurance and must comply with all applicable New York State Worker's Compensation and Disability Laws.

6. General Contractor shall execute care and caution during any demolition or removal work so as not to damage existing pipes, conduits, structure, etc. If damage occurs, the General Contractor shall be responsible for the immediate repair and rectification.

7. All materials, assemblies, and methods of construction regulated by the Construction Codes and not listed above shall be subject to semi-controlled inspection by the person superintending the Construction activities. Signed copies of all necessary test and inspection reports shall be submitted to the Architect.

8. All materials and assemblies that are required to have a fire resistance rating shall comply with the requirements of BC-703.

9. All exits shall be kept readily accessible and unobstructed at all times.

10. General Contractor must obtain all required permits before commencement of work and is responsible for all associated permit fees and payments, included renewal payments. All work permits must be posted on the project premises per BC-105.11.

Special Inspections:

1. The Owner shall be responsible for retaining a licensed special inspection agency to provide all of the identified special inspections, including progress and energy code inspections.

2. The special inspection agency selected to provide the identified inspections shall be an approved agency certified by the NYC Department of Buildings.

3. Copies of all inspection and test reports shall be furnished to the Architect upon completion of the work.

4. The General Contractor will be responsible for removing and replacing all work which is determined by testing and inspection not to comply with the specified standards and requirements.

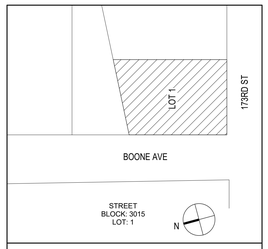
Noise Control Code:

1. The proposed work shall comply with the NYC Department of Environmental Protection's Noise Control Code (Local Law 113 of 2005.) All HVAC equipment shall comply with the Noise Control Code.

2. Sound level measurement and testing shall be performed and recorded according to the definitions and standards set forth in the Noise Control Code.

3. Sound Attenuation:

a. Exterior walls and windows shall provide a minimum composite window-wall attenuation of 28 dBA. An alternate means of ventilation, such as trickle vents, shall be provided in order to maintain a closed-window condition.
b. Recreational roof and terraced areas shall be provided with a minimum screened attenuation of 2 dBA.



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Bronx, New York 10460

DRAWING TITLE

GENERAL NOTES

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BUILDING CODE ANALYSIS

PROPOSED CHARTER SCHOOL: **NEW BUILDING**

EXISTING SITE IS TO BE FULLY DEMOLISHED PRIOR TO THIS APPLICATION.

APPLICABILITY: 2014 NYC CONSTRUCTION CODES AS APPLICBLE TO NEW BUILDINGS.

USE AND OCCUPANCY CLASSIFICATION: BC 302

E	EDUCATIONAL	BC 305.1
A-3	ASSEMBLY	BC 303.1
B	BUSINESS	BC 304.1

BUILDING IS **NOT** A HIGH RISE BUILDING AS DEFINED BY BC 202.

GENERAL HEIGHT AND AREA LIMITATIONS: BC 503

BC 501.3 AT LEAST 8% OF TOTAL BUILDING PERIMETER SHALL ADJOIN A STREET OR FRONTAGE SPACE.
TOTAL PROPOSED PERIMETER = 415.50'
REQUIRED FRONTAGE = 33.24' (8%)
ACTUAL FRONTAGE = **202.80' (49%) COMPLIES**

ALLOWABLE BUILDING HEIGHT AND AREA PROPOSED **TYPE IB** CONSTRUCTION:

	TYPE IB	
OCCUPANCY	HGT (FEET)	160
E - EDUCATIONAL (MAIN OCCUPANCY)	HGT (STORYS)	UL
	AREA (PER FLOOR)	UL SF

TABLE 503 ALLOWABLE HEIGHT = **160' FOR TYPE 1B**
ALLOWABLE STORYS = **UNLIMITED FOR TYPE 1B**
ALLOWABLE AREA PER STORY = **UNLIMITED FOR TYPE 1B**

PROPOSED HEIGHT **6** STORIES = **COMPLIES**
PROPOSED AREA PER STORY **9,261** SF = **COMPLIES**

TABLE 503(e) BUILDING HEIGHT MODIFICATION
BUILDINGS EQUIPPED THROUGHOUT WITH AN APPROVED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 SHALL BE **UNLIMITED** IN HEIGHT.

BC 504.3 ROOFTOP STRUCTURES
ROOFTOP STRUCTURE UNDER 1/3 OF ROOF AREA SHALL NOT BE CONSIDERED AN ADDITIONAL STORY.

MIXED USE & OCCUPANCIES: BC 508

BC 508.1 MIXED OCCUPANCIES
EACH PORTION OF A BUILDING SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1. WHERE A BUILDING CONTAINS MORE THAN ONE OCCUPANCY GROUP, THE BUILDING OR PORTION THEREOF SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF SECTIONS 508.2, 508.3 OR 508.4, OR A COMBINATION OF THESE SECTIONS.

EXCEPTION:
WHERE IDENTIFIED IN TABLE 509, ROOMS OR SPACES SHALL BE TREATED AS INCIDENTAL USES.

BC 508.2 ACCESSORY OCCUPANCIES
ACCESSORY OCCUPANCIES ARE THOSE OCCUPANCIES THAT ARE ANCILLARY TO THE MAIN OCCUPANCY OF THE BUILDING OR PORTION THEREOF.

BC 508.2.1 AREA LIMITATIONS
AGGREGATE ACCESSORY OCCUPANCIES SHALL NOT OCCUPY MORE THAN 10 PERCENT OF THE BUILDING AREA OF THE STORY IN WHICH THEY ARE LOCATED AND SHALL NOT EXCEED THE TABULAR VALUES IN TABLE 503, WITHOUT BUILDING AREA INCREASES IN ACCORDANCE WITH SECTION 506 FOR SUCH ACCESSORY OCCUPANCIES.

EXCEPTIONS:
1. THE FOLLOWING ACCESSORY OCCUPANCIES ARE PERMITTED TO OCCUPYMORE THAN 10 PERCENT OF THE FLOOR AREA OF THE STORY IN WHICH THEY ARE LOCATED.

1.1. ACCESSORY ASSEMBLY AREAS HAVING A FLOOR AREA LESS THAN 750 SQUARE FEET (69.7 M²).

1.2. ASSEMBLY AREAS THAT ARE ACCESSORY TO GROUP E OCCUPANCIES.

BC 508.2.2 OCCUPANCY CLASSIFICATION
ACCESSORY OCCUPANCIES SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1. THE REQUIREMENTS OF THIS CODE SHALL APPLY TO EACH PORTION OF THE BUILDING BASED ON THE OCCUPANCY CLASSIFICATION OF THAT SPACE.

BC 508.2.4 SEPARATION OF OCCUPANCY
NO SEPARATION IS REQUIRED BETWEEN ACCESSORY OCCUPANCIES AND THE MAIN OCCUPANCY.

BC 508.4 SEPARATION OF OCCUPANCIES
BUILDINGS OR PORTIONS OF BUILDINGS THAT COMPLY WITH THE PROVISIONS OF THIS SECTION SHALL BE CONSIDERED AS SEPARATED OCCUPANCIES.

TABLE 508.4 REQUIRED SEPERATION OF OCCUPANCIES(HOURS)
BUILDING IS FULLY SPRINKLERED.

OCCUPANCY	E/A-3	B
E/A-3	-	1 HR

NO SEPERATION BETWEEN "E" AND "A-3" REQUIRED
1 HR SEPERATION REQUIRED BETWEEN "E/A-3" AND "B"

INCIDENTAL USE AREAS: BC 509

BC 509.1 GENERAL
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.

BC 509.2 OCCUPANCY CLASSIFICATION
INCIDENTAL USES SHALL NOT BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1. INCIDENTAL USES SHALL BE INCLUDED IN THE BUILDING OCCUPANCIES WITHIN WHICH THEY ARE LOCATED.

BC 509.3 AREA LIMITATIONS
INCIDENTAL USES SHALL NOT OCCUPY MORE THAN 10 PERCENT OF THE BUILDING IN WHICH THEY ARE LOCATED.

BC 509.4 SEPARATION AND PROTECTION
THE INCIDENTAL USES LISTED IN TABLE 509 SHALL BE SEPARATED FROM THE REMAINDER OF THE BUILDING OR EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM, OR BOTH, IN ACCORDANCE WITH THE PROVISIONS OF THAT TABLE.

INCIDENTAL USE AREAS: BC 509 (CONTINUED)

509.4.1 SEPARATION
WHERE TABLE 509 SPECIFIES A FIRE-RESISTANCE-RATED SEPARATION, THE INCIDENTAL USES SHALL BE SEPARATED FROM THE REMAINDER OF THE BUILDING BY A FIRE BARRIER CONSTRUCTED IN ACCORDANCE WITH SECTION 707 OR A HORIZONTAL ASSEMBLY CONSTRUCTED IN ACCORDANCE WITH SECTION 712, OR BOTH.

509.4.2 PROTECTION
WHERE TABLE 509 PERMITS AN AUTOMATIC SPRINKLER SYSTEM WITHOUT A FIRE BARRIER, THE INCIDENTAL USES SHALL BE SEPARATED FROM THE REMAINDER OF THE BUILDING BY CONSTRUCTION CAPABLE OF RESISTING THE PASSAGE OF SMOKE. THE WALLS SHALL EXTEND FROM THE TOP OF THE FOUNDATION OR FLOOR ASSEMBLY BELOW TO THE UNDERSIDE OF THE CEILING THAT IS A COMPONENT OF A FIRE-RESISTANCE-RATED FLOOR ASSEMBLY OR ROOF ASSEMBLY ABOVE OR TO THE UNDERSIDE OF THE FLOOR OR ROOF SHEATHING, DESK OR SLAB ABOVE. DOORS SHALL BE SELF- OR AUTOMATIC-CLOSING UPON DETECTION OF SMOKE IN ACCORDANCE WITH SECTION 715.4.8.3. DOORS SHALL NOT HAVE AIR TRANSFER OPENINGS AND SHALL NOT BE UNDERCUT IN EXCESS OF THE CLEARANCE PERMITTED IN ACCORDANCE WITH NFPA 80. WALLS SURROUNDING THE INCIDENTAL USE SHALL NOT HAVE AIR TRANSFER OPENINGS UNLESS PROVIDED WITH SMOKE DAMPERS IN ACCORDANCE WITH SECTION 710.7.

TABLE 509

ROOM OR AREA	SEPERATION AND/OR PROTECTION
WASTE COLLECTION ROOM OVER 100 SF	1 HOUR OR PROVIDE AUTOMATIC SPRINKLER SYSTEM
ROOMS CONTAINING FIRE PUMPS IN NON-HIGH-RISE BUILDINGS	2 HOURS; OR 1 HOUR AND PROVIDE AUTOMATIC SPRINKLER SYSTEM THROUGHOUT THE BUILDING
ROOMS WITH A WATER BOILER THAT EXCEEDS 350,000 BTU PER HOUR INPUT	2 HOUR; OR 1 HOUR AND PROVIDE AUTOMATIC FIRE-EXTINGUISHING SYSTEM
ROOMS WITH A WATER BOILER THAT IS 350,000 BTU PER HOUR INPUT OR LESS	1 HOUR OR PROVIDE AUTOMATIC SPRINKLER SYSTEM

TYPE OF CONSTRUCTION BC 602

BC 602.2 PROPOSED BUILDING SHALL BE **TYPE 1B**

TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS OF BUILDING ELEMENTS (IN HOURS)

BUILDING ELEMENT	TYPE I
	B
PRIMARY STRUCTURE	2 HOUR (1 HOUR SUPPORTING ROOF)
EXTERIOR BEARING WALLS	2 HOUR
INTERIOR BEARING WALLS	2 HOUR
EXTERIOR NON-BEARING WALLS	SEE FIRE SEPARATION DISTANCE
INTERIOR NON-BEARING WALLS	0 HOUR
FLOOR CONSTRUCTION	2 HOUR
ROOF CONSTRUCTION	1 HOUR

TABLE 602 FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCEA

FIRE SEPARATION DISTANCE = X (FEET)	TYPE OF CONSTRUCTION	OCCUPANCY GROUP A, B, E
X < 5	ALL	1
X ≥ 30	ALL	0

FIRE WALLS BC 706

706.4 FIRE-RESISTANCE RATING
FIRE WALLS SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN THAT REQUIRED BY TABLE 706.4.

TABLE 706.4 FIRE WALL FIRE-RESISTANCE RATINGS

GROUP	FIRE-RESISTANCE RATING (HOURS)
A, B, E	3

BC 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 1 HOUR WHERE PENETRATING FEWER THAN THREE STORIES. THE NUMBER OF STORIES CONNECTED BY THE SHAFT ENCLOSURE SHALL INCLUDE ANY BASEMENTS OR CELLARS, BUT NOT ANY MEZZANINES. SHAFT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING NOT LESS THAN THE FLOOR ASSEMBLY PENETRATED, BUT NEED NOT EXCEED 2 HOURS. SHAFT ENCLOSURES SHALL MEET THE REQUIREMENTS OF SECTION 703.2.

BC 709.3 FIRE PARTITIONS: FIRE-RESISTANCE RATING
FIRE PARTITIONS SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 1 HOUR.

BC 710.3 SMOKE BARRIERS: FIRE-RESISTANCE RATING
A 1-HOUR FIRE-RESISTANCE RATING IS REQUIRED FOR SMOKE BARRIERS.

BC 711.3 SMOKE PARTITIONS: FIRE-RESISTANCE RATING
UNLESS REQUIRED ELSEWHERE IN THE CODE, SMOKE PARTITIONS ARE NOT REQUIRED TO HAVE A FIRE-RESISTANCE RATING.

BC 712.3 HORIZONTAL ASSEMBLIES: FIRE-RESISTANCE RATING
THE FIRE-RESISTANCE RATING OF FLOOR AND 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.

OCCUPANT LOAD: BC 1004

BC 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.

BC 1004.1.1 AREAS WITHOUT FIXED SEATING
THE NUMBER OF OCCUPANTS SHALL BE COMPUTED AT THE RATE OF ONE OCCUPANT PER UNIT OF AREA AS PRESCRIBED IN TABLE 1004.1.1. FOR AREAS WITHOUT FIXED SEATING, THE OCCUPANT LOAD SHALL NOT BE LESS THAN THAT NUMBER DETERMINED BY DIVIDING THE FLOOR AREA UNDER CONSIDERATION BY THE OCCUPANT PER UNIT OF AREA FACTOR ASSIGNED TO THE FUNCTIONS AS SET FORTH IN TABLE 1004.1.1.

SEE OCCUPANCY TABLES FOR CALCULATIONS ON A-021

TABLE 1004.1.1 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

FUNCTION OF SPACE	FLOOR AREA IN SQ. FT. PER OCCUPANT
ASSEMBLY WITHOUT FIXED SEATS UNCONCENTRATED (TABLES AND CHAIRS)	15 SF NET
BUSINESS AREAS	100 SF GROSS
EDUCATIONAL CLASSROOM (CLASSROOM AREA)	20 SF NET
GYMNASIUMS	15 SF NET
COMMERICAL KITCHENS	200 GROSS
ACCESSORY STORAGE AND MECHANICAL ROOM	15 SF NET

EGRESS WIDTH: BC 1005

BC 1005.1 MINIMUM REQUIRED EGRESS WIDTH
THE MEANS OF EGRESS WIDTH SHALL NOT BE LESS THAN 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.**DOORS, GATES, AND TURNSTILES: BC 1008**

BC 1008.1.1.1 DOOR WIDTH
THE MINIMUM WIDTH OF EACH DOOR OPENING SHALL BE SUFFICIENT FOR THE OCCUPANT LOAD THEREOF AND SHALL PROVIDE A CLEAR WIDTH OF NOT LESS THAN 32 INCHES (813 MM).

BC 1008.1.1.2 PROJECTIONS INTO CLEAR WIDTH
THERE SHALL NOT BE PROJECTIONS INTO THE REQUIRED CLEAR WIDTH LOWER THAN 34 INCHES (864 MM) ABOVE THE FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES (864 MM) AND 80 INCHES (2032 MM) ABOVE THE FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES (102 MM).

BC 1008.1.6 LANDING 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).

STAIRWAYS: BC 1009

BC 1009.1 STAIRWAY WIDTH
THE WIDTH OF STAIRWAYS SHALL BE DETERMINED AS SPECIFIED IN SECTION 1005.1, BUT SUCH WIDTH SHALL NOT BE LESS THAN 44 INCHES (1118 MM). SEE SECTION 1007.3 FOR ACCESSIBLE MEANS OF EGRESS STAIRWAYS.

BC 1009.2 HEADROOM
STAIRWAYS SHALL HAVE A MINIMUM HEADROOM CLEARANCE OF 84 INCHES (2134 MM) MEASURED VERTICALLY FROM A LINE CONNECTING THE EDGE OF THE NOSINGS. SUCH HEADROOM SHALL BE CONTINUOUS ABOVE THE STAIRWAY TO THE POINT WHERE THE LINE INTERSECTS THE LANDING BELOW, ONE TREAD DEPTH BEYOND THE BOTTOM RISER. THE MINIMUM CLEARANCE SHALL BE MAINTAINED THE FULL WIDTH OF THE STAIRWAY AND LANDING

BC 1009.4.2 RISER HEIGHT AND TREAD DEPTH
STAIR RISER HEIGHTS SHALL BE 7 INCHES (178 MM) MAXIMUM AND 4 INCHES (102 MM) MINIMUM. THE RISER HEIGHT SHALL BE MEASURED VERTICALLY BETWEEN THE LEADING EDGES OF ADJACENT TREADS. RECTANGULAR TREAD DEPTHS SHALL BE 11 INCHES (279 MM) MINIMUM MEASURED HORIZONTALLY BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS AND AT A RIGHT ANGLE TO THE TREAD'S LEADING EDGE.

EXIT ACCESS: BC 1014

BC 1014.2 EGRESS THROUGH INTERVEINING SPACES
EGRESS FROM A ROOM OR SPACE SHALL NOT PASS THROUGH ADJOINING OR INTERVENING ROOMS OR AREAS, EXCEPT WHERE SUCH ADJOINING ROOMS OR AREAS AND THE AREA SERVED ARE ACCESSORY TO ONE OR THE OTHER, ARE NOT A GROUP H OCCUPANCY AND PROVIDE A DISCERNIBLE PATH OF EGRESS TRAVEL TO AN EXIT.

BC 1014.3 COMMON PATH OF EGRESS TRAVEL
IN OCCUPANCIES OTHER THAN GROUPS H-1, H-2 AND H-3, THE COMMON PATH OF EGRESS TRAVEL SHALL NOT EXCEED 75 FEET (22 860 MM).

EXIT ACCESS AND EXIT ACCESS DOORWAYS: BC 1015

BC 1015.1 TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE ONE OF THE FOLLOWING CONDITIONS EXIST:
1. THE OCCUPANT LOAD OF THE SPACE EXCEEDS ONE OF THE VALUES IN TABLE 1015.1.
2. THE COMMON PATH OF EGRESS TRAVEL EXCEEDS ONE OF THE LIMITATIONS OF SECTION 1014.3.

WHERE A BUILDING CONTAINS MIXED OCCUPANCIES, EACH INDIVIDUAL OCCUPANCY SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS FOR THAT OCCUPANCY. WHERE APPLICABLE, CUMULATIVE OCCUPANT LOADS FROM ADJACENT OCCUPANCIES SHALL BE CONSIDERED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 1004.1.

TABLE 1015.1

OCCUPANCY	MAXIMUM OCCUPANT LOAD
A, B, E	74

BC 1015.1.1 THREE OR MORE EXITS
THERE EXITS SHALL BE PROVIDED FROM ANY SPACE WITH AN OCCUPANT LOAD OF 501 TO 1,000.

BC 1015.2.1 TWO EXITS OR EXIT ACCESS DOORWAYS
WHERE TWO EXITS OR EXIT ACCESS DOORWAYS ARE REQUIRED FROM ANY PORTION OF THE EXIT ACCESS, THE EXIT DOORS OR EXIT ACCESS DOORWAYS SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN EXIT DOORS OR EXIT ACCESS DOORWAYS. STAIRS SHARING ANY COMMON WALL, FLOORS, CEILINGS, SCISSOR STAIR ASSEMBLIES, OR OTHER ENCLOSURES SHALL BE COUNTED AS ONE EXIT STAIRWAY.
EXCEPTION: REMOTE LOCATION IN SPRINKLERED BUILDINGS. WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2, THE SEPARATION DISTANCE OF THE EXIT DOORS OR EXIT ACCESS DOORWAYS SHALL NOT BE LESS THAN ONE-THIRD OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED

EXIT ACCESS TRAVEL DISTANCE: BC 1016

TABLE BC 1016.1

OCCUPANCY	WITH SPRINKLER SYSTEM (FEET)
E,F-1,M,R,S-1	200[b]
F-2,S-2,U	250[b]
B	300[c]

(b) BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2. SEE SECTION 903 FOR OCCUPANCIES WHERE SPRINKLER SYSTEMS ACCORDING TO SECTION 903.3.1.2 ARE PERMITTED.
PROVIDED: OK

(c) BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1.
PROVIDED: OK

CORRIDORS: BC 1018

BC 1018.1.1 INTERIOR CORRIDORS
INTERIOR CORRIDORS SHALL BE FIRE-RESISTANCE RATED IN ACCORDANCE WITH TABLE 1018.1.1.

TABLE BC 1018.1

OCCUPANCY	OCCUPANT LOAD SERVED	REQUIRED FIRE-RESISTANCE RATING (hours)
		WITH SPRINKLER SYSTEM[c]
A,B,E	GREATER THAN 30	0

C. BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2 WHERE ALLOWED.

BC 1018.4 DEAD ENDS
WHERE MORE THAN ONE EXIT OR EXIT ACCESS DOORWAY IS REQUIRED, THE EXIT ACCESS SHALL BE ARRANGED SUCH THAT THERE ARE NO DEAD ENDS IN CORRIDORS MORE THAN 20 FEET (6096 MM) IN LENGTH.

EXCEPTION:
IN OCCUPANCIES IN GROUPS B, E, F, I-1, M, R-1, S AND U, WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1, THE LENGTH OF DEAD-END CORRIDORS SHALL NOT EXCEED 50 FEET (15 240 MM).

EXIT ENCLOSURES: BC 1022

BC 1022.1 ENCLOSURES REQUIRED
INTERIOR EXIT STAIRWAYS AND INTERIOR EXIT RAMPS SHALL BE ENCLOSED WITH FIRE BARRIERS CONSTRUCTED IN ACCORDANCE WITH SECTION 707 OR HORIZONTAL ASSEMBLIES CONSTRUCTED IN ACCORDANCE WITH SECTION 712, OR BOTH. EXIT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING OF **NOT LESS THAN 2 HOURS WHERE CONNECTING FOUR STORIES** OR MORE AND NOT LESS THAN 1 HOUR WHERE CONNECTING LESS THAN FOUR STORIES. THE NUMBER OF STORIES CONNECTED BY THE EXIT ENCLOSURE SHALL INCLUDE ANY BASEMENTS BUT NOT ANY MEZZANINES. EXIT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING NOT LESS THAN THE FLOOR ASSEMBLY PENETRATED, BUT NEED NOT EXCEED 2 HOURS. IN GROUP R-1 AND R-2 OCCUPANCIES, WHERE EXIT ENCLOSURES ARE REQUIRED TO HAVE A FIRE-RESISTANCE RATING OF 2 HOURS, SUCH ENCLOSURES SHALL BE CONSTRUCTED OF MASONRY OR MASONRY EQUIVALENT. WALL ASSEMBLIES CONSTITUTING MASONRY EQUIVALENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH DEPARTMENT RULES. EXIT ENCLOSURES SHALL LEAD DIRECTLY TO THE EXTERIOR OF THE BUILDING OR SHALL BE EXTENDED TO THE EXTERIOR OF THE BUILDING WITH AN EXIT PASSAGEWAY CONFORMING TO THE REQUIREMENTS OF SECTION 1023, EXCEPT AS PERMITTED IN SECTION 1027.1. AN EXIT ENCLOSURE SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN MEANS OF EGRESS.

EXIST PASSAGWAYS: BC 1023

1023.2 WIDTH
THE WIDTH OF EXIT PASSAGEWAYS SHALL BE DETERMINED AS SPECIFIED IN SECTION 1005.1 BUT SUCH WIDTH SHALL NOT BE LESS THAN 44 INCHES (1118 MM), EXCEPT THAT EXIT PASSAGEWAYS SERVING AN OCCUPANT LOAD OF LESS THAN 50 SHALL NOT BE LESS THAN 36 INCHES (914 MM) IN WIDTH.

THE REQUIRED WIDTH OF EXIT PASSAGEWAYS SHALL BE UNOBSTRUCTED.

EXCEPTION: DOORS COMPLYING WITH SECTION 1005.2.

BC 1023.3 CONSTRUCTION
EXIT PASSAGEWAY ENCLOSURES SHALL HAVE WALLS, FLOORS AND CEILINGS OF NOT LESS THAN 1-HOUR FIRE-RESISTANCE RATING, AND NOT LESS THAN THAT REQUIRED FOR ANY CONNECTING EXIT ENCLOSURE. EXIT PASSAGEWAYS SHALL BE CONSTRUCTED AS FIRE BARRIERS IN ACCORDANCE WITH SECTION 707 OR HORIZONTAL ASSEMBLIES CONSTRUCTED IN ACCORDANCE WITH SECTION 712, OR BOTH.

ASSEMBY: BC 1028

BC 1028.2 ASSEMBLY WITH OCCUPANT LOAD GREATER THAN 300
BUILDINGS OR SPACES OCCUPIED BY GROUP A THAT HAVE AN OCCUPANT LOAD OF GREATER THAN 300 SHALL BE PROVIDED WITH A MAIN EXIT. SUCH MAIN EXIT SHALL BE OF SUFFICIENT WIDTH TO ACCOMMODATE NOT LESS THAN ONE-HALF OF THE OCCUPANT LOAD, BUT SUCH WIDTH SHALL NOT BE LESS THAN THE TOTAL REQUIRED WIDTH OF ALL MEANS OF EGRESS LEADING TO THE EXIT. WHERE THE MAIN USE OR DOMINANT OCCUPANCY OF THE BUILDING IS CLASSIFIED AS GROUP A, THE MAIN EXIT SHALL FRONT ON AT LEAST ONE STREET OR AN UNOCCUPIED SPACE OF NOT LESS THAN 10 FEET (3048 MM) IN WIDTH THAT ADJOINS A STREET OR PUBLIC WAY. OTHER ADDITIONAL EXITS SHALL PROVIDE AN EGRESS CAPACITY FOR ATLEAST ONE-HALF OF THE TOTAL OCCUPANT LOAD SERVED BYTHAT LEVEL AND COMPLY WITH SECTION 1015.2.

EXCEPTION:
IN ASSEMBLY OCCUPANCIES WHERE THERE IS NO WELL-DEFINED MAIN EXIT OR WHERE MULTIPLE MAIN EXITS ARE PROVIDED, EXITS SHALL BE PERMITTED TO BE DISTRIBUTED AROUND THE PERIMETER OF THE BUILDING PROVIDED THAT THE TOTAL WIDTH OF EGRESS IS NOT LESS THAN 100 PERCENT OF THE REQUIRED WIDTH.

BC 1028.7 TRAVEL DISTANCE
EXITS AND AISLES SHALL BE SO LOCATED SUCH THAT THE TRAVEL DISTANCE TO AN EXIT DOOR SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 1028.7. AT LEAST ONE EXIT OPENING SHALL BE AVAILABLE FROM EVERY ATTACHED SEAT OR STANDEE SPACE IN AN ASSEMBLY SPACE, OR FROM THE MOST REMOTE POINT IN THE SPACE WHEN MOVABLE SEATS ARE PROVIDED OR, WHEN NO SEATS ARE PROVIDED, WITHIN THE PRIMARY TRAVEL DISTANCE LIMITATION LISTED IN TABLE 1028.7. INADDITION, AN ALTERNATE EXIT OPENING SHALL BE AVAILABLE FROM EVERY ATTACHED SEAT OR STANDEE SPACE, OR FROM THE MOST REMOTE POINT WHEN ATTACHED SEATS ARE NOTPROVIDED WITHIN THE SECONDARY TRAVEL DISTANCE LIMITATION LISTED IN TABLE 1028.7. SUCH ALTERNATE EXIT OPENINGS MAY SERVE TO SATISFY THE REQUIREMENTS FOR PRIMARY TRAVEL DISTANCE FOR OTHER SEATS OR LOCATIONS. EXIT OPENINGS SATISFYING THE PRIMARY AND SECONDARY TRAVEL DISTANCE REQUIREMENTS FOR ANY ONE SEAT OR LOCATION SHALL BE SEPARATED FROM EACH OTHER BY A DISTANCE OF AT LEAST 25 FEET (7620 MM).

TABLE 1028.7

OCCUPANCY	SPRINKLER	
	PRIMARY	SECONDARY
A-3	150 FEET	250 FEET

BC 1028.8 COMMON PATH OF TRAVEL
THE COMMON PATH OF TRAVEL SHALL NOT EXCEED 30 FEET (9144 MM) FROM ANY SEAT TO A POINT WHERE AN OCCUPANT HAS A CHOICE OF TWO PATHS OF EGRESS TRAVEL TO TWO EXITS.

ACCESSIBILITY: BC CHAPTER 11

BC 1104.3 ACCESSIBLE ROUTE CONNECTED SPACES
WHEN A BUILDING, OR PORTION OF A BUILDING, IS REQUIRED TO BE ACCESSIBLE, AN ACCESSIBLE ROUTE SHALL BE PROVIDED TO EACH PORTION OF THE BUILDING, TO ACCESSIBLE BUILDING ENTRANCES CONNECTING ACCESSIBLE PEDESTRIAN WALKWAYS AND THE PUBLIC WAY.

BC 1105 ACCESSIBLE ENTRANCES
ALL PUBLIC ENTRANCES SHALL BE ACCESSIBLE, EXCEPT FOR LOADING AND SERVICE ENTRANCES PROVIDED THERE IS MORE THAN ONE ENTRANCE TO THE BUILDING OR TENANT SPACE.

BC 1109.2 TOILET AND BATHING ROOMS
EACH TOILET ROOM AND BATHING ROOM SHALL BE ACCESSIBLE. WHERE A FLOOR LEVEL IS NOT REQUIRED TO BE CONNECTED BY AN ACCESSIBLE ROUTE, THE ONLY TOILET ROOMS OR BATHING ROOMS PROVIDED WITHIN THE FACILITY SHALL NOT BE LOCATED ON THE INACCESSIBLE FLOOR. AT LEAST ONE OF EACH TYPE OF FIXTURE, ELEMENT, CONTROL OR DISPENSER IN EACH ACCESSIBLE TOILET ROOM AND BATHING ROOMS SHALL BE ACCESSIBLE.

EXCEPTIONS:
4. WHERE NO MORE THAN ONE URINAL IS PROVIDED IN A TOILET ROOM OR BATHING ROOM, THE URINAL IS NOT REQUIRED TO BE ACCESSIBLE.
6. WHERE MULTIPLE SINGLE USER PORTABLE TOILET OR BATHING UNITS ARE CLUSTERED AT A SINGLE LOCATION, NOT LESS THAN 5 PERCENT OF THE TOILET UNITS AND BATHING UNITS AT EACH CLUSTER SHALL BE ACCESSIBLE. ACCESSIBLE PORTABLE TOILET UNITS AND BATHING UNITS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH SECTION 1110.1.

BC 1109.6 ELEVATORS
ALL PASSENGER ELEVATORS ON AN ACCESSIBLE ROUTE SHALL BE ACCESSIBLE AND COMPLY WITH SECTION 3001.3.

BC 1109.12 CONTROLS, OPERATING MECHANISMS AND HARDWARE
INTENDED FOR OPERATION BY THE OCCUPANT, INCLUDING SWITCHES THAT CONTROL LIGHTING AND VENTILATION, AND ELECTRICAL CONVENIENCE OUTLETS, IN ACCESSIBLE SPACES. ALONG ACCESSIBLE ROUTES OR AS PARTS OF ACCESSIBLE ELEMENTS SHALL BE ACCESSIBLE.

NATURAL VENTILATION: BC 1204

1203.4.1.1 OCCUPIABLE SPACES
WHERE OCCUPIABLE SPACES ARE NOT REQUIRED TO BE PROVIDED WITH MECHANICAL VENTILATION IN ACCORDANCE WITH THE NEW YORK CITY MECHANICAL CODE, NATURAL VENTILATION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1203.4.1.1. OPENINGS PROVIDING REQ

CELLAR LEVEL OCCUPANT LOAD CALCULATIONS

ROOM NUMBER	ROOM NAME	OCCUPANCY CLASS	AREA	LOAD FACTOR (MAX.)	OCCUPANT LOAD (PROPOSED)	REMARKS
C-01	CELLAR LOBBY	A-3	388 SF	[redacted]	0	
C-02	CAFETERIA	A-3	2741 SF	15 SF	190	
C-03	BOYS RESTROOM	A-3	104 SF	[redacted]	0	
C-04	KITCHEN	A-3	304 SF	200 SF	3	NOTE: WARMING KITCHEN ONLY W/ NO HOOD
C-07	ADA RESTROOM	A-3	48 SF	[redacted]	0	NOTE: GENDER NEUTRAL
C-08	GIRLS RESTROOM	A-3	218 SF	500 SF	0	
C-05	TRASH/STORAGE	U	150 SF	300 SF	0	
C-09	ELEC./MECHANICAL	U	247 SF	300 SF	1	
C-10	WATER SERV./MECH.	U	271 SF	300 SF	1	NOTE: INCIDENTAL USE
C-11	HWH/MECHANICAL	U	40 SF	300 SF	0	NOTE: INCIDENTAL USE
C-12	SEWER	U	27 SF	300 SF	0	
C-13	UTIL. SINK/MECH.	U	13 SF	300 SF	0	NOTE: INCIDENTAL USE
TOTAL OCCUPANTS (CELLAR LEVEL) =					195	

CELLAR LEVEL DOOR EGRESS ANALYSIS

DOOR (ID)	LOCATION	SIZE WIDTH	SIZE THICKNESS	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	FIRE RATING	COMPLIANT
C-1	CAFETERIA	60"	1 3/4"	0.2"	300	97		YES
C-2	CAFETERIA	72"	1 3/4"	0.2"	360	97	.75 HR	YES
T-S	STAIR A	36"	1 3/4"	0.2"	180	97	1.5 HR	YES

CELLAR LEVEL STAIR EGRESS ANALYSIS

STAIR NAME	STAIR WIDTH	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	COMPLIANT
STAIR A	70"	0.3"	233	97	YES
STAIR C	68"	0.3"	226	97	YES

CELLAR LEVEL EGRESS TRAVEL DISTANCE

EGRESS	DISTANCE (ACTUAL)	MAX DISTANCE (PERMITTED)	COMPLIANT	REMARKS
TO DOOR T-2 (PRIMARY)	85' - 4"	150'-0" (SPRINKLERED)	YES	-
TO STAIR C (SECONDARY)	83' - 6"	250'-0" (SPRINKLERED)	YES	DIRECT EXIT TO EXTERIOR, SEE DOOR E-4 ON A-101

FIRST FLOOR OCCUPANT LOAD CALCULATIONS

ROOM NUMBER	ROOM NAME	OCCUPANCY CLASS	AREA	LOAD FACTOR (MAX.)	OCCUPANT LOAD (PROPOSED)	REMARKS
1-00	VESTIBULE	A-3	183 SF	[redacted]	0	
1-01	LOBBY	A-3	723 SF	[redacted]	0	
1-02	NURSE OFFICE	A-3	162 SF	100 SF	2	NOTE: ACCESSORY TO A-3
1-02A	ADA RESTROOM	A-3	47 SF	[redacted]	0	NOTE: GENDER NEUTRAL
1-03	CONF/MTG ROOM	A-3	288 SF	15 SF	12	NOTE: ACCESSORY TO A-3
1-04	GIRLS RESTROOM	A-3	143 SF	[redacted]	0	
1-05	BOYS RESTROOM	A-3	145 SF	[redacted]	0	
1-06	GYMNASIUM	A-3	5604 SF	10 SF	602	
1-06A	UTILITY CLOSET	A-3	40 SF	[redacted]	0	
1-06B	BIKE STORAGE	A-3	99 SF	[redacted]	0	NOTE: 5 SPACES REQ'D
1-08	RECEPTION OFFICE	A-3	209 SF	100 SF	2	
TOTAL OCCUPANTS (FIIRST FLOOR) =					618	

FIRST FLOOR DOOR EGRESS ANALYSIS

DOOR (ID)	LOCATION	SIZE WIDTH	SIZE THICKNESS	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	FIRE RATING	COMPLIANT
1-1	GYMNASIUM	72"	1 3/4"	0.2"	360	201	-	YES
1-2	GYMNASIUM	72"	1 3/4"	0.2"	360	201	.75 HR	YES
E-1	ENTRY/VESTIBULE	72"	2"	0.2"	360	201		YES
E-1A	ENTRY/VESTIBULE	72"	2"	0.2"	360	201		YES
E-2	GYMNASIUM	72"	1 3/4"	0.2"	360	201	-	YES
E-3	GYMNASIUM	72"	1 3/4"	0.2"	360	201 + 126 = 327	-	YES
E-4	STAIR C	60"	1 3/4"	0.2"	300	97	-	YES
E-5	STAIR D	36"	1 3/4"	0.2"	180	14	-	YES
E-6	STAIR A	36"	1 3/4"	0.2"	180	126	1.5 HR	YES
T-S	STAIR A	36"	1 3/4"	0.2"	180	126	1.5 HR	YES

FIRST FLOOR STAIR EGRESS ANALYSIS

STAIR NAME	STAIR WIDTH	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	COMPLIANT
STAIR A	72"	0.3"	239	140	YES
STAIR B	72"	0.3"	239	126	YES
STAIR D	44"	0.3"	146	14	YES

FIRST FLOOR EGRESS TRAVEL DISTANCE

EGRESS	DISTANCE (ACTUAL)	MAX DISTANCE (PERMITTED)	COMPLIANT	REMARKS
TO DOOR E-1 (PRIMARY)	129' - 8"	150'-0" (SPRINKLERED)	YES	
TO DOOR E-2 (SECONDARY)	92' - 2"	250'-0" (SPRINKLERED)	YES	
TO DOOR E-3 (TERTIARY)	105' - 9"	250'-0" (SPRINKLERED)	YES	REQUIRED, OCCUPANCY GREATER THAN 500

SECOND FLOOR OCCUPANT LOAD CALCULATIONS

ROOM NUMBER	ROOM NAME	OCCUPANCY CLASS	AREA	LOAD FACTOR (MAX.)	OCCUPANT LOAD (PROPOSED)	REMARKS
2-00	ADMIN OFFICE	B	801 SF	100 SF	10	
2-00A	IT CLOSET	B	20 SF	300 SF	0	
2-01	PRINCIPAL OFFICE	B	233 SF	100 SF	3	
2-02	STAFF OFFICE	B	207 SF	100 SF	3	
2-03	STAFF OFFICE	B	344 SF	100 SF	8	
2-04	VICE PRINCIPAL OFFICE	B	178 SF	100 SF	2	
2-05	RECEPTION OFFICE	B	67 SF	100 SF	1	
2-06	ADA RESTROOM	B	64 SF	[redacted]	0	NOTE: GENDER NEUTRAL
2-07	ADA RESTROOM	B	61 SF	[redacted]	0	NOTE: GENDER NEUTRAL
2-08	VAULT/ RECORDS	S	33 SF	300 SF	0	
2-09	MECHANICAL	U	369 SF	300 SF	1	NOTE: INCIDENTAL USE, NO ACCESS TO STUDENTS
TOTAL OCCUPANTS (SECOND FLOOR) =					28	

SECOND FLOOR DOOR EGRESS ANALYSIS

DOOR (ID)	LOCATION	SIZE WIDTH	SIZE THICKNESS	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	FIRE RATING	COMPLIANT
2-2	STAIR D	36"	1 3/4"	0.2"	180	14	.75 HR	YES
2-4	OFFICES	36"	1 3/4"	0.2"	180	8	-	YES
T-S	STAIR A	36"	1 3/4"	0.2"	180	14	1.5 HR	YES

SECOND FLOOR STAIR EGRESS ANALYSIS

STAIR NAME	STAIR WIDTH	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	COMPLIANT
STAIR A	72"	0.3"	240	140	YES

SECOND FLOOR EGRESS TRAVEL DISTANCE

EGRESS	DISTANCE (ACTUAL)	MAX DISTANCE (PERMITTED)	COMPLIANT	REMARKS
TO STAIR A (PRIMARY)	62' - 4"	300'-0" (SPRINKLERED)	YES	
TO STAIR D (SECONDARY)	87' - 4"	300'-0" (SPRINKLERED)	YES	

THIRD - FIFTH FLOOR OCCUPANT LOAD CALCULATIONS

ROOM NUMBER	ROOM NAME	OCCUPANCY CLASS	AREA	LOAD FACTOR (MAX.)	OCCUPANT LOAD (PROPOSED)	REMARKS
3	CORRIDOR	E	1370 SF	[redacted]	0	
3-00	OFFICE	E	119 SF	100 SF	2	
3-01	CLASSROOM	E	378 SF	20 SF	20	
3-02	BOYS RESTROOM	E	150 SF	[redacted]	0	
3-03	GIRLS RESTROOM	E	179 SF	[redacted]	0	
3-04	ADA RESTROOM	E	50 SF	[redacted]	0	NOTE: GENDER NEUTRAL
3-05	CLASSROOM	E	548 SF	20 SF	27	
3-06	CLASSROOM	E	546 SF	20 SF	27	
3-07	CLASSROOM	E	543 SF	20 SF	27	
3-08	CLASSROOM	E	525 SF	20 SF	27	
3-09	CLASSROOM	E	244 SF	20 SF	12	
3-10	CLASSROOM	E	569 SF	20 SF	28	
3-11	CLASSROOM	E	559 SF	20 SF	28	
3-12	CLASSROOM	E	548 SF	20 SF	27	
3-13	CLASSROOM	E	545 SF	20 SF	27	
TOTAL OCCUPANTS (TYPICAL FLOOR) =					252	

THIRD - FIFTH FLOOR DOOR EGRESS ANALYSIS

DOOR (ID)	LOCATION	SIZE WIDTH	SIZE THICKNESS	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	FIRE RATING	COMPLIANT
T-CR	CLASSROOM	36"	1 3/4"	0.2"	180	28 (MAX)	-	YES
T-S	STAIR	36"	1 3/4"	0.2"	180	126	1.5 HR	YES

THIRD - FIFTH FLOOR STAIR EGRESS ANALYSIS

STAIR NAME	STAIR WIDTH	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	COMPLIANT
STAIR A	72"	0.3"	240	126	YES
STAIR B	72"	0.3"	240	126	YES

THIRD - FIFTH FLOOR EGRESS TRAVEL DISTANCE

EGRESS	DISTANCE (ACTUAL)	MAX DISTANCE (PERMITTED)	COMPLIANT	REMARKS
TO STAIR A (PRIMARY)	82' - 7"	200'-0" (SPRINKLERED)	YES	
TO STAIR B (SECONDARY)	90' - 11"	200'-0" (SPRINKLERED)	YES	

SIXTH FLOOR OCCUPANT LOAD CALCULATIONS

ROOM NUMBER	ROOM NAME	OCCUPANCY CLASS	AREA	LOAD FACTOR (MAX.)	OCCUPANT LOAD (PROPOSED)	REMARKS
6	CORRIDOR	E	1351 SF	[redacted]	0	
6-00	STAFF OFFICE	E	103 SF	100 SF	2	
6-01	CLASSROOM	E	378 SF	20 SF	20	
6-02	BOYS RESTROOM	E	145 SF	[redacted]	0	
6-03	GIRLS RESTROOM	E	213 SF	[redacted]	0	
6-04	RESTROOM	E	63 SF	[redacted]	0	NOTE: GENDER NEUTRAL
6-05	CLASSROOM	E	531 SF	20 SF	27	
6-06	CLASSROOM	E	546 SF	20 SF	27	
6-07	CLASSROOM	E	546 SF	20 SF	27	
6-08	CLASSROOM	E	497 SF	20 SF	27	
6-09	CLASSROOM	E	249 SF	20 SF	12	
6-10	CLASSROOM	E	569 SF	20 SF	28	
6-11	CLASSROOM	E	559 SF	20 SF	28	
6-12	CLASSROOM	E	548 SF	20 SF	27	
6-13	CLASSROOM	E	545 SF	20 SF	27	
TOTAL OCCUPANTS (SIXTH FLOOR) =					252	

SIXTH FLOOR DOOR EGRESS ANALYSIS

DOOR (ID)	LOCATION	SIZE WIDTH	SIZE THICKNESS	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	FIRE RATING	COMPLIANT
T-CR	CLASSROOM	36"	1 3/4"	0.2"	180	28 (MAX)	-	YES
T-S	STAIR	36"	1 3/4"	0.2"	180	126	1.5 HR	YES

SIXTH FLOOR STAIR EGRESS ANALYSIS

STAIR NAME	STAIR WIDTH	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	COMPLIANT
STAIR A	72"	0.3"	240	126	YES
STAIR B	72"	0.3"	240	126	YES

SIXTH FLOOR EGRESS TRAVEL DISTANCE

EGRESS	DISTANCE (ACTUAL)	MAX DISTANCE (PERMITTED)	COMPLIANT	REMARKS
TO STAIR A (PRIMARY)	82' - 7"	200'-0" (SPRINKLERED)	YES	
TO STAIR B (SECONDARY)	90' - 11"	200'-0" (SPRINKLERED)	YES	

ROOF OCCUPANT LOAD CALCULATIONS

ROOM NUMBER	ROOM NAME	OCCUPANCY CLASS	AREA	LOAD FACTOR (MAX.)	OCCUPANT LOAD (PROPOSED)	REMARKS
R-00	ROOF VESTIBULE		111 SF		0	
R	ROOF TERRACE	A-3	3301 SF	15 SF	221	
R-01	STUDENT ADA RESTRM	A-3	52 SF	[redacted]	0	NOTE: GENDER NEUTRAL
R-02	ROOF STORAGE	A-3	43 SF	[redacted]	0	
TOTAL OCCUPANTS (ROOF) =					221	

ROOF DOOR EGRESS ANALYSIS

DOOR (ID)	LOCATION	SIZE WIDTH	SIZE THICKNESS	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	FIRE RATING	COMPLIANT
R-1	ROOF STAIR	72"	1 3/4"	0.2"	360	111	1.5 HR	YES
R-2	VESTIBULE	72"	1 3/4"	0.2"	360	110	-	YES

ROOF STAIR EGRESS ANALYSIS

STAIR NAME	STAIR WIDTH	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	COMPLIANT
STAIR A	72"	0.3"	240	111	YES
STAIR A	72"	0.3"	240	126	YES

ROOF EGRESS TRAVEL DISTANCE

EGRESS	DISTANCE (ACTUAL)	MAX DISTANCE (PERMITTED)	COMPLIANT	REMARKS
TO STAIR A (PRIMARY)	79' - 0"	100'-0" (NON-SPRINKLERED)	YES	
TO STAIR B (SECONDARY)	73' - 9"	150'-0" (NON-SPRINKLERED)	YES	

PC 403 TABLE 403.1
MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES

NUMBER OF REQUIRED AND PROVIDED PLUMBLING FIXTURES
SEE OVERALL FLOOR PLANS ON SHEETS A-101 - A-106

NO.	CLASSIFICATION	OCCUPANCY	DESCRIPTION	WATER CLOSETS MALE	WATER CLOSETS FEMALE	LAVATORIES	BATHTUBS/ SHOWERS	DRINKING FOUNTAIN (SEE SECTION 410.1)	OTHER	PROVIDED
1	ASSEMBLY (SEE SECTION 403.2, 403.5, AND 403.6)	A-3	AUDITORIUMS WITHOUT PERMANENT SEATING, ART GALLERIES, EXHIBITION HALLS, MUSEUMS, LECTURE HALLS, LIBRARIES, ARCADES AND GYMNASIUMS	1 PER 70 FOR THE FIRST 210 AND 1 PER 125 FOR THE REMAINDER EXCEEDING 210	1 PER 35 FOR THE FIRST 210 AND 1 PER 65 FOR THE REMAINDER EXCEEDING 210	1 PER 200	-	1 PER 500	1 SERVICE SINK	YES
2	BUSINESS	B	BUILDINGS FOR THE TRANSACTION OF BUSINESS, PROFESSIONAL SERVICES, OTHER SERVICES INCLUDING MERCHANDISE, OFFICE BUILDINGS, BANKS, LIGHT INDUSTRIAL AND SIMILAR USES	NO. OF PERSONS FOR EACH SEX: 1-20 / NO. OF FIXTURES: 1		NO. OF PERSONS FOR EACH SEX: 1-25 / NO. OF FIXTURES: 1	-	1 PER 100	1 SERVICE SINK	YES
3	EDUCATIONAL	E	EDUCATIONAL FACILITIES	1 PER 50	1 PER 50	1 PER 50	-	1 PER 100	1 SERVICE SINK	YES



-NOT FOR CONSTRUCTION-

NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET
	08/02/19	DOB FILING / 50% CD

ARCHITECT
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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
BUILDING CODE ANALYSIS

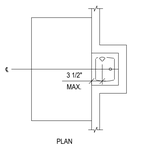
Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE:
DRAWING NO.:
A-021.00

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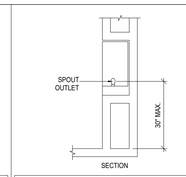
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ACCESSIBILITY REQUIREMENTS



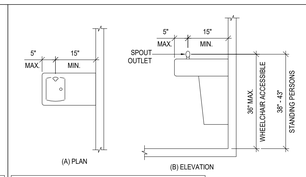
PLAN

CHILDREN'S USE PARALLEL APPROACH AT DRINKING FOUNTAINS	
2010 ADAAG SECTION	602.2 EXCEPTION
2009 ICC A117.1 FIG.	602.2



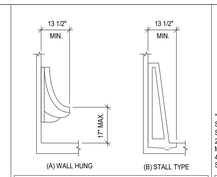
SECTION

CHILDREN'S USE DRINKING FOUNTAIN SPOUT LOCATION	
2010 ADAAG SECTION	602.2 EXCEPTION
2009 ICC A117.1 FIG.	602.2



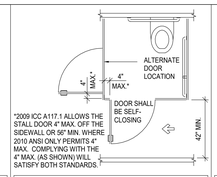
(A) PLAN (B) ELEVATION

ADULT DRINKING FOUNTAIN SPOUT LOCATION		
2010 ADAAG FIG.	602.5	
2009 ICC A117.1 FIG.	602.5	



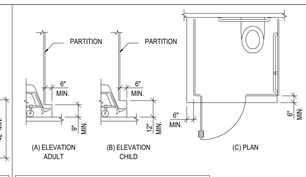
(A) WALL HUNG (B) STALL TYPE

HEIGHT AND DEPTH OF URINALS	
2010 ADAAG FIG.	605.2
2009 ICC A117.1 FIG.	605.2



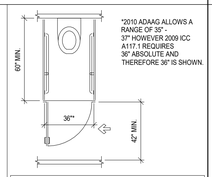
*2009 ICC A117.1 ALLOWS THE STALL DOOR 4" MAX. OFF THE SIDEWALL OR 56" MIN. WHERE 2010 ANSI ONLY PERMITS 4" MAX. COMPLYING WITH THE 4" MAX. (AS SHOWN) WILL SATISFY BOTH STANDARDS.

WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOORS	
2010 ADAAG FIG.	604.8.1.2
2009 ICC A117.1 FIG.	604.9.3.1 (A) & (B)



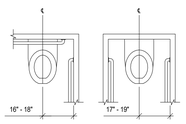
(A) ELEVATION ADULT (B) ELEVATION CHILD (C) PLAN

WHEELCHAIR ACCESSIBLE COMPARTMENT TOE CLEARANCE	
2010 ADAAG FIG.	604.8.1.4
2009 ICC A117.1 FIG.	604.9.5



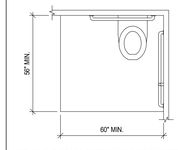
*2010 ADAAG ALLOWS A RANGE OF 35" - 37" HOWEVER 2009 ICC A117.1 REQUIRES 36" ABSOLUTE AND THEREFORE 36" IS SHOWN.

AMBULATORY ACCESSIBLE TOILET COMPARTMENT	
2010 ADAAG FIG.	604.8.2
2009 ICC A117.1 FIG.	604.10



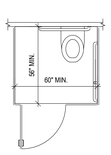
(A) ADULT WHEELCHAIR ACCESSIBLE WATER CLOSET (B) ADULT AMBULATORY ACCESSIBLE WATER CLOSET

ADULT WATER CLOSET LOCATION		
2010 ADAAG FIG.	604.2	
2009 ICC A117.1 FIG.	604.2	

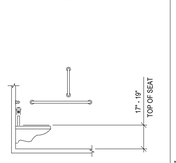


NOTE: NO FIXTURES OR OBSTRUCTIONS ARE PERMITTED WITHIN THE WATER CLOSET CLEARANCE

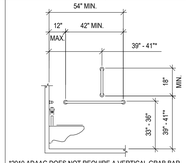
ADULT SIZE OF CLEARANCE AT WATER CLOSETS		
2010 ADAAG FIG.	604.3.1	
2009 ICC A117.1 FIG.	604.3	



ADULT WALL HUNG WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT		
2010 ADAAG FIG.	604.8.1.1(A)	
2009 ICC A117.1 FIG.	604.9.2	

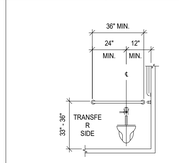


ADULT TOILET SEAT HEIGHT		
2010 ADAAG SECTION	604.4	
2009 ICC A117.1 FIG.	604.4	

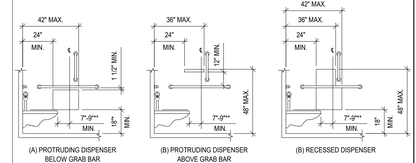


*2010 ADAAG DOES NOT REQUIRE A VERTICAL GRAB BAR.

ADULT SIDE WALL GRAB BARS		
2010 ADAAG FIG.	604.5.1	
2009 ICC A117.1 FIG.	604.5.1	



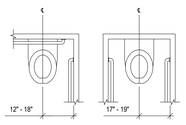
ADULT REAR WALL GRAB BARS AT WATER CLOSETS		
2010 ADAAG FIG.	604.5.2	
2009 ICC A117.1 FIG.	604.5.2	



(A) PROTRUDING DISPENSER BELOW GRAB BAR (B) PROTRUDING DISPENSER ABOVE GRAB BAR (B) RECESSED DISPENSER

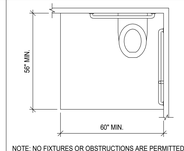
ADULT DISPENSER OUTLET LOCATION		
2010 ADAAG FIG.	604.7	
2009 ICC A117.1 FIG.	604.7	

*2010 ADAAG ALLOWS A LOWER MINIMUM HEIGHT OF 15" MIN. HOWEVER 18" MIN. REQUIREMENT OF 2009 ICC A117.1 WILL PROVIDE COMPLIANCE WITH BOTH STANDARDS.
**THIS IS ONLY A REQUIREMENT FOUND IN 2010 ADAAG.



(A) CHILD WHEELCHAIR ACCESSIBLE WATER CLOSET (B) CHILD AMBULATORY ACCESSIBLE WATER CLOSET

CHILD WATER CLOSET LOCATION		
2010 ADAAG SECTION	604.9.1	
2009 ICC A117.1 FIG.	**604.11.2**	

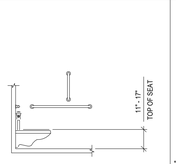


NOTE: NO FIXTURES OR OBSTRUCTIONS ARE PERMITTED WITHIN THE WATER CLOSET CLEARANCE

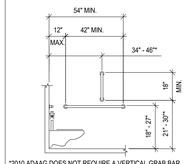
CHILD SIZE OF CLEARANCE AT WATER CLOSETS		
2010 ADAAG FIG.	604.3.1	
2009 ICC A117.1 FIG.	604.11.3	



CHILD WALL HUNG WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT		
2010 ADAAG SEC./FIG.	604.8.1.1	
2009 ICC A117.1 FIG.	604.9.2(B)	

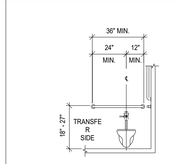


CHILD TOILET SEAT HEIGHT		
2010 ADAAG SECTION	604.9.3	
2009 ICC A117.1 FIG.	604.11.4	

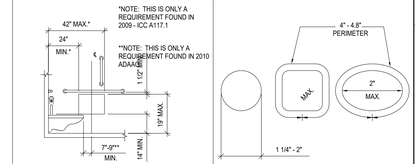


*2010 ADAAG DOES NOT REQUIRE A VERTICAL GRAB BAR.

CHILD SIDE WALL GRAB BARS		
2010 ADAAG SECTION	604.5 & 604.9.4	
2009 ICC A117.1 FIG.	609.4.2(A)	

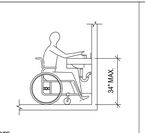


CHILD WALL GRAB BARS AT WATER CLOSETS		
2010 ADAAG FIG.	604.5 & 604.9.4	
2009 ICC A117.1 FIG.	609.4.2(B)	



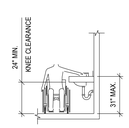
CHILD DISPENSER OUTLET LOCATION		
2010 ADAAG SEC.	604.9.6	
2009 ICC A117.1 FIG.	604.11.7	

SIZE OF GRAB BARS		
2010 ADAAG SEC./FIG.	609.2.1 & 609.2.2	
2009 ICC A117.1 FIG.	609.2	

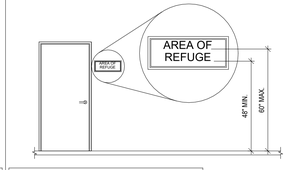


NOTE:
PROVIDE A CLEAR FLOOR SPACE POSITIONED FOR A FORWARD APPROACH AS PER SECTION 305. PROVIDE TOE AND KNEE CLEARANCE AS PER SECTION 306.

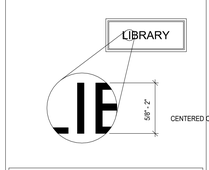
ADULT USE HEIGHT OF LAVATORIES AND SINKS		
2010 ADAAG SECTION	606.2	
2009 ICC A117.1 FIG.	606.3	



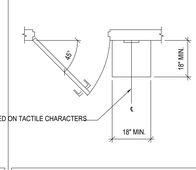
CHILD USE (AGES 6 - 12 ONLY) HEIGHT OF LAVATORIES AND SINKS		
2010 ADAAG SECTION	606.2 (EX. 465)	
2009 ICC A117.1 SEC.	606.2 (EX. 3)	



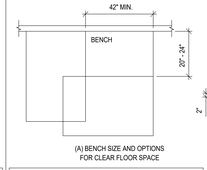
HEIGHT OF TACTILE CHARACTERS ABOVE FLOOR / GROUND		
2010 ADAAG FIG.	703.4.1	
2009 ICC A117.1 FIG.	703.3.10	



HEIGHT OF RAISED CHARACTERS		
2010 ADAAG FIG.	703.2.5	
2009 ICC A117.1 FIG.	703.3.5	

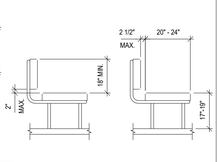


LOCATION OF TACTILE SIGNS AT DOORS		
2010 ADAAG FIG.	703.4.2	
2009 ICC A117.1 FIG.	703.3.11	

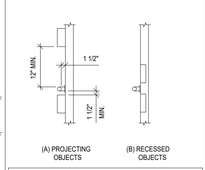


(A) BENCH SIZE AND OPTIONS FOR CLEAR FLOOR SPACE

BENCHES		
2010 ADAAG FIG.	903.4	
2009 ICC A117.1 FIG.	903.4	



(B) BENCH BACK SUPPORT AND SEAT HEIGHT



(A) PROJECTING OBJECTS (B) RECESSED OBJECTS

SPACING OF GRAB BARS		
2010 ADAAG FIG.	609.3	
2009 ICC A117.1 FIG.	609.3	

NOTES:
- THE DETAILS ON SHEETS A-030 AND A-031 COMBINE THE REQUIREMENTS OF ICC A117.1 - 2009 AND THE 2010 ADAAG STANDARDS.
- THE TEXT OF ICC A117.1 - 2009 AND THE 2010 ADAAG PREVAILS OVER DRAWN FIGURES.
- WHERE THERE IS A DIFFERENCE IN THE ICC A117.1 - 2009 AND THE 2010 ADAAG - THE DETAILS ON SHEETS A-030 AND A-031 ARE SHOWN THUS

GENERAL ACCESSIBILITY NOTES

1. REFER TO BUILDING CODE ANALYSIS ON SHEET A-020 FOR SPECIFIC INFORMATION FOR APPLICABLE ACCESSIBILITY SECTIONS OF THE NYC CONSTRUCTION CODES.
2. PROVIDE INSTALLATION OF ELEMENTS AS DEPICTED IN DRAWINGS ON SHEET A-030 AND A-031.
3. IN CASE OF CONFLICT BETWEEN THE STANDARDS SHOWN ABOVE AND THE DRAWINGS, THE STANDARDS SHALL BE FOLLOWED AND THE DESIGN TEAM SHALL BE INFORMED OF ANY DISCREPANCIES.
4. GENERAL CONTRACTOR TO ENSURE INSTALLATION OF SWITCHES, RECEPTICALES, SHELVES, OPERABLE PARTS, GRAB BARS, ACCESS CONTROLS SHALL BE ACCORDING TO THE 2010 FEDERAL ADA STANDARDS(ADAAG) OR ANSI A117.1-2009, WHICHEVER IS MOST STRINGENT.
5. GENERAL CONTRACTOR TO PROVIDE GROUNDS IN WALL/BLOCKING FOR INSTALLATION OF GRAB BARS AND HANDRAILS FOR ALL ACCESSIBLE SPACES AS DESIGNATED IN DRAWING.
6. ALL THRESHOLDS SHALL FOLLOWING ADA DESIGN STANDARDS (ADAAG). NYC BUILDING CODE CHAPTER 11 STANDARDS, OR ANSI A117.1-2009. WHICHEVER IS MOST STRINGENT.
7. OPERABLE PARTS OF ACCESSIBLE ELEMENTS TO BE LOCATED WITHIN ADA REACH RANGE PER 2010 ADA DESIGN STANDARDS (ADAAG) AND AS DEPICTED IN OBSTRUCTED REACH DIAGRAMS ABOVE.
8. DESIGNATED ADA (OR ACCESSIBLE) TOILET ROOMS, STALL COMPARTMENTS, LOCKER ROOMS AND ALL PUBLIC AREAS SHALL BE FULLY ACCESSIBLE.

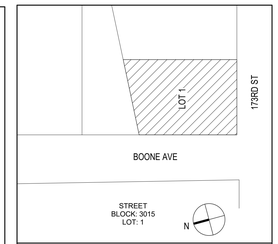
REFERENCES

ANSI A117.1 - 2009

2014 NYC BUILDING CODE - CHAPTER 11 ACCESSIBILITY APPENDICES "E","N" AND "P"

DEPARTMENT OF JUSTICE - AMERICANS WITH DISABILITIES ACT

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (ADAAG)



-NOT FOR CONSTRUCTION-

NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET
	08/02/19	DOB FILING / 50% CD

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PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
ACCESSIBILITY REQUIREMENTS

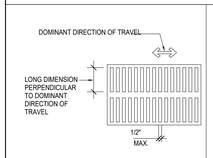
Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: 12" = 1'-0"
DRAWING NO.:
A-030.00

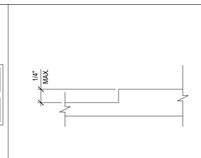
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10/8/2019 5:34:10 PM

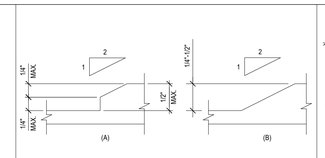
ACCESSIBILITY REQUIREMENTS



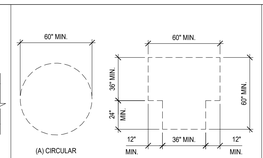
ELONGATED OPENINGS IN FLOOR OR GROUND SURFACES	
2010 ADAAG FIG.	302.3
2009 ICC A117.1 FIG.	302.3



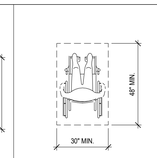
VERTICAL CHANGES IN LEVEL	
2010 ADAAG FIG.	303.2
2009 ICC A117.1 FIG.	303.2



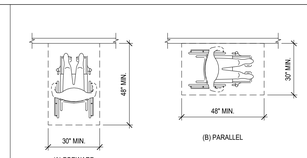
BEVELED CHANGES IN LEVEL	
2010 ADAAG FIG.	303.3
2009 ICC A117.1 FIG.	303.2(A) & 303.2(B)



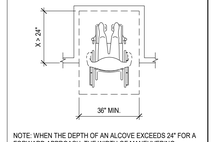
SIZE OF TURNING SPACE	
2010 ADAAG FIG.	304.3.2
2009 ICC A117.1 FIG.	304.3(A) & 304.3(B)



CLEAR FLOOR OR GROUND SPACE	
2010 ADAAG FIG.	305.3
2009 ICC A117.1 FIG.	305.3

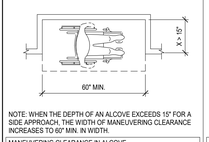


POSITION OF CLEAR FLOOR OR GROUND SPACE	
2010 ADAAG FIG.	305.5
2009 ICC A117.1 FIG.	305.5



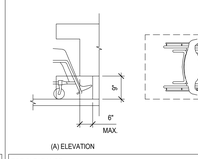
NOTE: WHEN THE DEPTH OF AN ALCOVE EXCEEDS 24" FOR A FORWARD APPROACH, THE WIDTH OF MANEUVERING CLEARANCE INCREASES TO 36" MIN. IN WIDTH.

MANEUVERING CLEARANCE IN ALCOVE, FORWARD APPROACH	
2010 ADAAG FIG.	305.7.1
2009 ICC A117.1 FIG.	305.7(A)

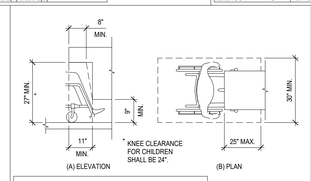


NOTE: WHEN THE DEPTH OF AN ALCOVE EXCEEDS 15" FOR A SIDE APPROACH, THE WIDTH OF MANEUVERING CLEARANCE INCREASES TO 60" MIN. IN WIDTH.

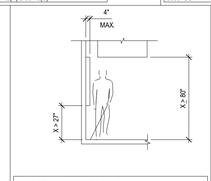
MANEUVERING CLEARANCE IN ALCOVE, PARALLEL APPROACH	
2010 ADAAG FIG.	305.7.2
2009 ICC A117.1 FIG.	305.7(B)



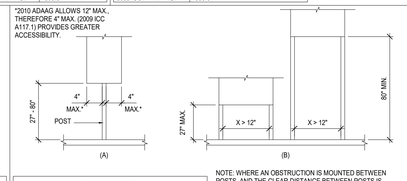
TOE CLEARANCE	
2010 ADAAG FIG.	306.2
2009 ICC A117.1 FIG.	306.2



KNEE CLEARANCE	
2010 ADAAG FIG.	306.3
2009 ICC A117.1 FIG.	306.3



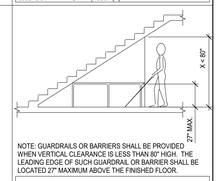
LIMITS OF PROTRUDING OBJECTS	
2010 ADAAG FIG.	307.2
2009 ICC A117.1 FIG.	307.2



* 2010 ADAAG ALLOWS 12" MAX. THEREFORE 4" MAX. (2009 ICC A117.1) PROVIDES GREATER ACCESSIBILITY.

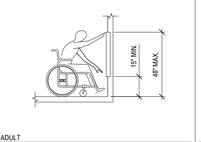
POST MOUNTED PROTRUDING OBJECTS	
2010 ADAAG FIG.	307.3
2009 ICC A117.1 FIG.	307.3

NOTE: WHERE AN OBSTRUCTION IS MOUNTED BETWEEN POSTS, AND THE CLEAR DISTANCE BETWEEN POSTS IS GREATER THAN 12", THE LOWEST EDGE OF SUCH OBSTRUCTION SHALL BE 27" MAX. OR 80" MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE.



NOTE: GUARDRAILS OR BARRIERS SHALL BE PROVIDED WHEN VERTICAL CLEARANCE IS LESS THAN 80" HIGH. THE LEADING EDGE OF SUCH GUARDRAIL OR BARRIER SHALL BE LOCATED 27" MAXIMUM ABOVE THE FINISHED FLOOR.

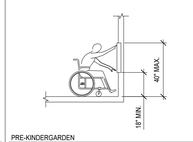
VERTICAL CLEARANCE	
2010 ADAAG FIG.	307.4
2009 ICC A117.1 FIG.	307.4



ADULT

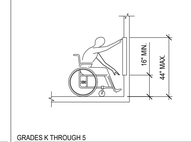
UNOBSTRUCTED FORWARD REACH	
2010 ADAAG FIG.	308.2.1
2009 ICC A117.1 FIG.	308.2.1

*THIS IS AN ADVISORY REQUIREMENT FOUND ONLY IN 2010 ADAAG.



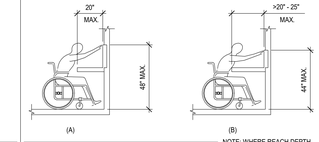
PRE-KINDERGARDEN

AGE 5-8 UNOBSTRUCTED REACH (FORWARD / SIDE REACH)	
2010 ADAAG SECTION	308.1 ADVISORY
2009 ICC A117.1 FIG.	"



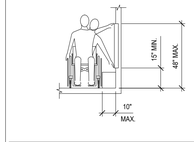
GRADES K THROUGH 5

AGE 9-12 UNOBSTRUCTED REACH (FORWARD / SIDE REACH)	
2010 ADAAG SECTION	308.1 ADVISORY
2009 ICC A117.1 FIG.	"



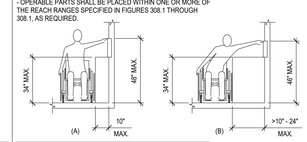
NOTE: WHERE REACH DEPTH EXCEEDS 20", THE MAX. HIGH FORWARD REACH SHALL BE 44" IN HEIGHT, AND THE REACH DEPTH SHALL BE 25" MAXIMUM.

OBSTRUCTED HIGH FORWARD REACH	
2010 ADAAG FIG.	308.2.2
2009 ICC A117.1 FIG.	308.2.2

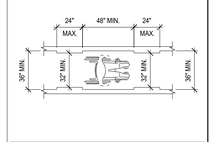


OBSTRUCTED SIDE REACH	
2010 ADAAG FIG.	308.3.1
2009 ICC A117.1 FIG.	308.3.1

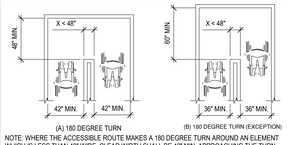
NOTES:
- WHERE REACH DEPTH EXCEEDS 10", THE HIGH SIDE REACH SHALL BE 46" MAXIMUM. FOR A REACH DEPTH OF 24" MAXIMUM.
- OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN FIGURES 308.1 THROUGH 308.1, AS REQUIRED.



OBSTRUCTED HIGH SIDE REACH	
2010 ADAAG FIG.	308.3.2
2009 ICC A117.1 FIG.	308.3.2



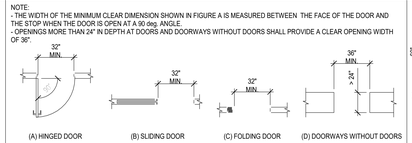
CLEAR WIDTH OF AN ACCESSIBLE ROUTE	
2010 ADAAG FIG.	403.5.1
2009 ICC A117.1 FIG.	403.5



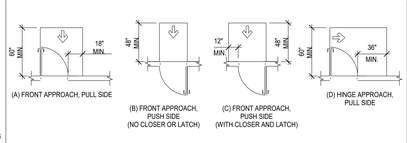
NOTE: WHERE THE ACCESSIBLE ROUTE MAKES A 180 DEGREE TURN AROUND AN ELEMENT WHICH IS LESS THAN 48" WIDE, CLEAR WIDTH SHALL BE 42" MIN. APPROACHING THE TURN, 48" MIN. AT THE TURN AND 42" LEAVING THE TURN. WHERE THE CLEAR WIDTH AT THE TURN IS 60" MIN., A 36" MIN. CLEAR WIDTH IS REQUIRED.

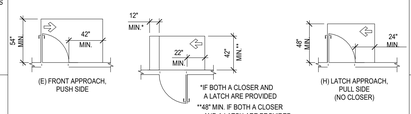
CLEAR WIDTH AT TURN	
2010 ADAAG FIG.	403.5.2
2009 ICC A117.1 FIG.	403.5.1

NOTE:
- THE WIDTH OF THE MINIMUM CLEAR DIMENSION SHOWN IN FIGURE A IS MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP WHEN THE DOOR IS OPEN AT A 90 deg. ANGLE.
- OPENINGS MORE THAN 24" IN DEPTH AT DOORS AND DOORWAYS WITHOUT DOORS SHALL PROVIDE A CLEAR OPENING WIDTH OF 36".



CLEAR WIDTH OF DOORWAYS	
2010 ADAAG FIG.	404.2.3
2009 ICC A117.1 FIG.	404.2.2

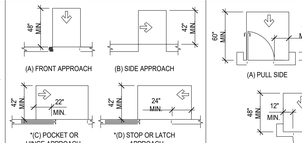






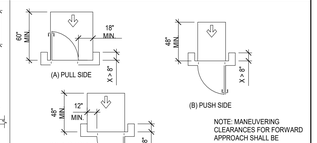
MANEUVERING CLEARANCE (MANUAL SWING DOORS & GATES)	
2010 ADAAG FIG.	404.2.4.1
2009 ICC A117.1 FIG.	404.2.3.2 & 404.2.3.3

*** 2009 ICC A117.1 REQUIRES ADDITIONAL 12" MANEUVERING CLEARANCE BEYOND LATCH SIDE (NOT REQUIRED BY 2010 ADAAG) AND THEREFORE PROVIDES GREATER ACCESSIBILITY.



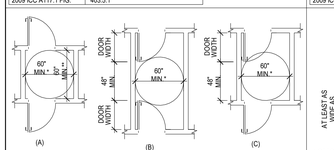
*STRICTER 2010 ADAAG REQUIREMENTS (NOT REQUIRED BY 2009 ICC A117.1)

MANEUVERING CLEARANCE AT DOORWAYS WITHOUT DOORS	
2010 ADAAG FIG.	404.2.4.2
2009 ICC A117.1 FIG.	404.2.3.4



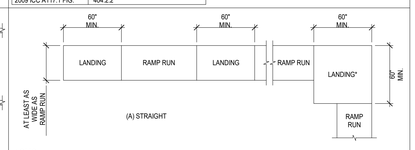
NOTE: MANEUVERING CLEARANCES FOR FORWARD APPROACH SHALL BE PROVIDED WHEN ANY OBSTRUCTION WITHIN 18" OF THE LATCH SIDE OF THE DOORWAY PROJECTS MORE THAN 6" BEYOND THE FACE OF THE DOOR, MEASURED PERPINDICULAR TO THE FACE OF THE DOOR OR GATE.

MANEUVERING CLEARANCES AT RECESSED DOORS AND GATES	
2010 ADAAG FIG.	404.2.4.3
2009 ICC A117.1 FIG.	404.2.3.5



* 2009 ICC A117.1REQUIRES ADDITIONAL 60" CLEAR WIDTH WHERE 2010 ADAAG DOES NOT REQUIRE MIN. WIDTH.
** 2010 ADAAG REQUIRES 48" MINIMUM

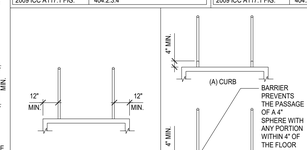
DOOR AND GATES IN SERIES*	
2010 ADAAG FIG.	404.2.6
2009 ICC A117.1 FIG.	404.2.5



NOTES:
- RAMP RUNS SHALL NOT EXCEED 1:12 UNLESS PERMITTED BY TABLE 405.2
- CROSS SLOPE OF RAMP RUNS SHALL NOT EXCEED 1:48

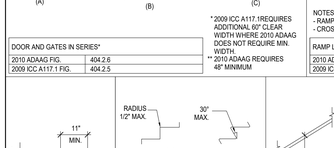
RAMP LANDINGS	
2010 ADAAG FIG.	405.7
2009 ICC A117.1 FIG.	405.7

*** 2010 ADAAG REQUIRED A 60" X 60" LANDING AT CHANGE IN DIRECTION WHERE 2009 ICC A117.1 REQUIRES EITHER A T-TYPE OR TURNING CIRCLE COMPLYING WITH SECTION 304.3. THUS 2010 ADAAG REQUIREMENTS PROVIDE GREATER ACCESSIBILITY.



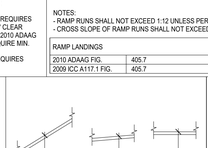
EXTENDED FLOOR OR GROUND SURFACE EDGE PROTECTION	
2010 ADAAG FIG.	405.9.1
2009 ICC A117.1 FIG.	405.9.1

RAMP EDGE PROTECTION	
2010 ADAAG FIG.	405.9.2
2009 ICC A117.1 FIG.	405.9.2

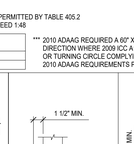


TREADS AND RISERS AT ACCESSIBLE STAIRWAYS	
2010 ADAAG SECTION	504.2
2009 ICC A117.1 FIG.	504.2

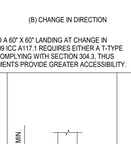
STAIR NOSINGS	
2010 ADAAG FIG.	504.5
2009 ICC A117.1 FIG.	504.5



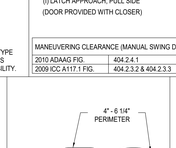
HANDRAIL HEIGHT	
2010 ADAAG FIG.	505.4
2009 ICC A117.1 FIG.	505.4



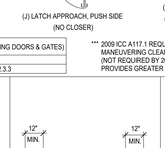
HANDRAIL CLEARANCE	
2010 ADAAG FIG.	505.5
2009 ICC A117.1 FIG.	505.5



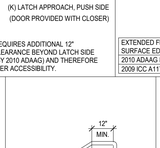
HORIZONTAL PROJECTIONS BELOW THE GRIPPING SURFACE	
2010 ADAAG FIG.	505.6
2009 ICC A117.1 SEC.	505.6



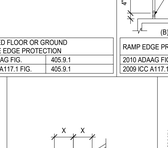
HANDRAILS	
2010 ADAAG SEC./FIG.	SEC. 505.7.1 FIG. 505.7.2
2009 ICC A117.1 SEC.	505.7



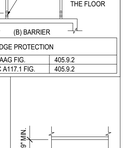
TOP AND BOTTOM HANDRAIL EXTENSIONS AT RAMP	
2010 ADAAG FIG.	505.10
2009 ICC A117.1 FIG.	505.10.1



TOP HANDRAIL EXTENSIONS AT STAIRS	
2010 ADAAG FIG.	505.10.2
2009 ICC A117.1 FIG.	505.10.2

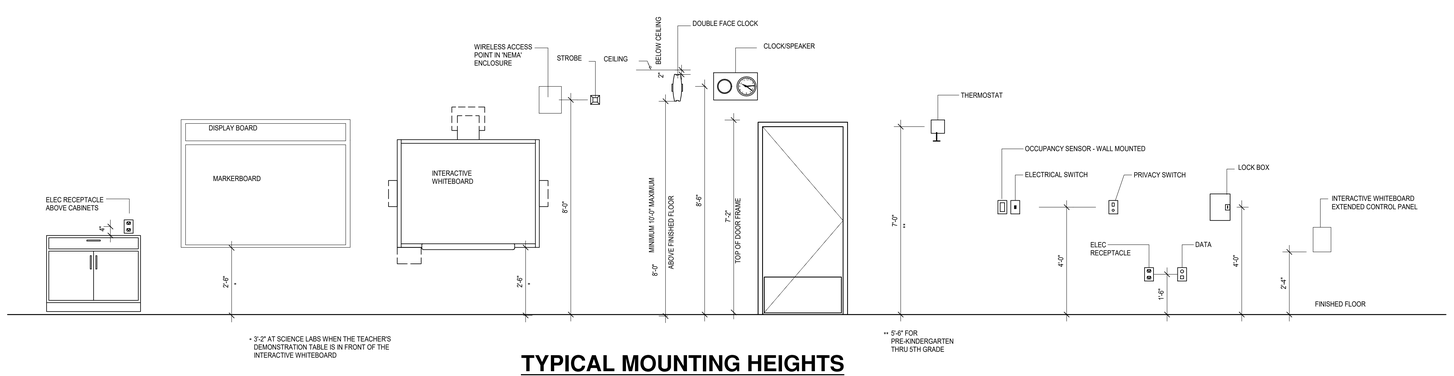


BOTTOM HANDRAIL EXTENSIONS AT STAIRS	
2010 ADAAG FIG.	505.10.3
2009 ICC A117.1 FIG.	505.10.3



*THIS ADVISORY IS ONLY FOUND IN THE 2010 AGAAG.

CHILD HANDRAIL ADVISORY	
2010 ADAAG SECTION	505.4*
2009 ICC A117.1 FIG.	-



* 3'-2" AT SCIENCE LABS WHEN THE TEACHER'S DEMONSTRATION TABLE IS IN FRONT OF THE INTERACTIVE WHITEBOARD

** 5'-6" FOR PRE-KINDERGARTEN THRU 5TH GRADE

TYPICAL MOUNTING HEIGHTS

GENERAL ACCESSIBILITY NOTES

1. REFER TO BUILDING CODE ANALYSIS ON SHEET A-020 FOR SPECIFIC INFORMATION FOR APPLICABLE ACCESSIBILITY SECTIONS OF THE NYC CONSTRUCTION CODES.
2. PROVIDE INSTALLATION OF ELEMENTS AS DEPICTED IN DRAWINGS ON SHEET A-030 AND A-031.
3. IN CASE OF CONFLICT BETWEEN THE STANDARDS SHOWN ABOVE AND THE DRAWINGS, THE STANDARDS SHALL BE FOLLOWED AND THE DESIGN TEAM SHALL BE INFORMED OF ANY DISCREPANCIES.
4. GENERAL CONTRACTOR TO ENSURE INSTALLATION OF SWITCHES, RECEPTICALES, SHELVES, OPERABLE PARTS, GRAB BARS, ACCESS CONTROLS SHALL BE ACCORDING TO THE 2010 FEDERAL ADA STANDARDS(ADAAG) OR ANSI A117.1-2009, WHICHEVER IS MOST STRINGENT.
5. GENERAL CONTRACTOR TO PROVIDE GROUNDS IN WALL/BLOCKING FOR INSTALLATION OF GRAB BARS AND HANDRAILS FOR ALL ACCESSIBLE SPACES AS DESIGNATED IN DRAWING.
6. ALL THRESHOLDS SHALL FOLLOWING ADA DESIGN STANDARDS (ADAAG). NYC BUILDING CODE CHAPTER 11 STANDARDS, OR ANSI A117.1-2009. WHICHEVER IS MOST STRINGENT.
7. OPERABLE PARTS OF ACCESSIBLE ELEMENTS TO BE LOCATED WITHIN ADA REACH RANGE PER 2010 ADA DESIGN STANDARDS (ADAAG) AND AS DEPICTED IN OBSTRUCTED REACH DIAGRAMS ABOVE.
8. DESIGNATED ADA (OR ACCESSIBLE) TOILET ROOMS, STALL COMPARTMENTS, LOCKER ROOMS AND ALL PUBLIC AREAS SHALL BE FULLY ACCESSIBLE.

REFERENCES

ANSI A117.1 - 2009

2014 NYC BUILDING CODE - CHAPTER 11 ACCESSIBILITY APPENDICES "E","N" AND "P"

DEPARTMENT OF JUSTICE - AMERICANS WITH DISABILITIES ACT

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (ADAAG)



-NOT FOR CONSTRUCTION-

NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET

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DOB NB#210180089

PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

ACCESSIBILITY REQUIREMENTS

Seal & Signature:

DATE:	10/08/19
PROJECT #:	1918
DWG SCALE:	12" = 1'-0"
DRAWING NO.:	A-031.00

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ADJACENT 1 STORY BUILDING

132' - 8 1/2"

REAR YARD
0'-0"

76.7'4"

ROOF OVER GYM

21' - 10 1/2"

MECHANICAL AREA

64' - 3"

90.00'

7' - 5 1/8"

STAIR A BULKHEAD

EL 75' - 8"

EL 92' - 2"

ELEVATOR OVERRUN

RECREATIONAL ROOF TERRACE

DN

STAIR B BULKHEAD

75' - 2"

PROPOSED SCHOOL

MECHANICAL AREA

ADJACENT 1 STORY BUILDING

98' - 8 3/4"

101.28'

173rd STREET

9' - 8 1/2"

5' - 0" TYP.

10' - 0" CLR.

25' - 0"

88' - 0"

VALVE (TYP.)

℄ WATER SERVICE (APPROX.)

℄ FIRE SERVICE (APPROX.)

1' - 6"

10' - 0" MIN.

STOP

10' - 10 1/8"

EXISTING SIDEWALK VAULT TO REMAIN

± 7' - 6 1/4"

± 4' - 9 3/4"

± 2' - 10"

LINE OF WALL AT GROUND FLOOR

99.00'

1' - 0 5/8"

115' - 1 3/4"

0' - 1 5/8"

47' - 0 3/8"

ALIGN

15' - 2 1/4"

CROSSWALK

10' - 0" TYP.

10' - 0" CLR.

EXISTING STREET LIGHTING TO REMAIN (TYP.)

NEW STREET TREE AND PLANTER (TYP.)

EXISTING STREET TREE TO BE REMOVED (TYP.)

EXISTING VAULT TO REMAIN

30' - 0"

30' - 0"

EXISTING MAN HOLE TO REMAIN (TYP.)

EX. DRAIN TO REMAIN (TYP.)

STOP

BOONE AVENUE

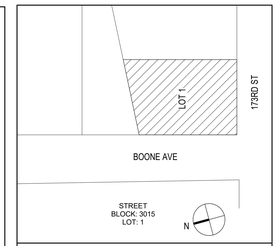
EXISTING MAN HOLE TO REMAIN (TYP.)

CROSSWALK

CROSSWALK

1 SITE PLAN
SCALE: 1" = 5'-0"

N



-NOT FOR CONSTRUCTION-

NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET
	08/02/19	DOB FILING / 50% CD

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PROJECT NAME
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Bronx, New York 10460

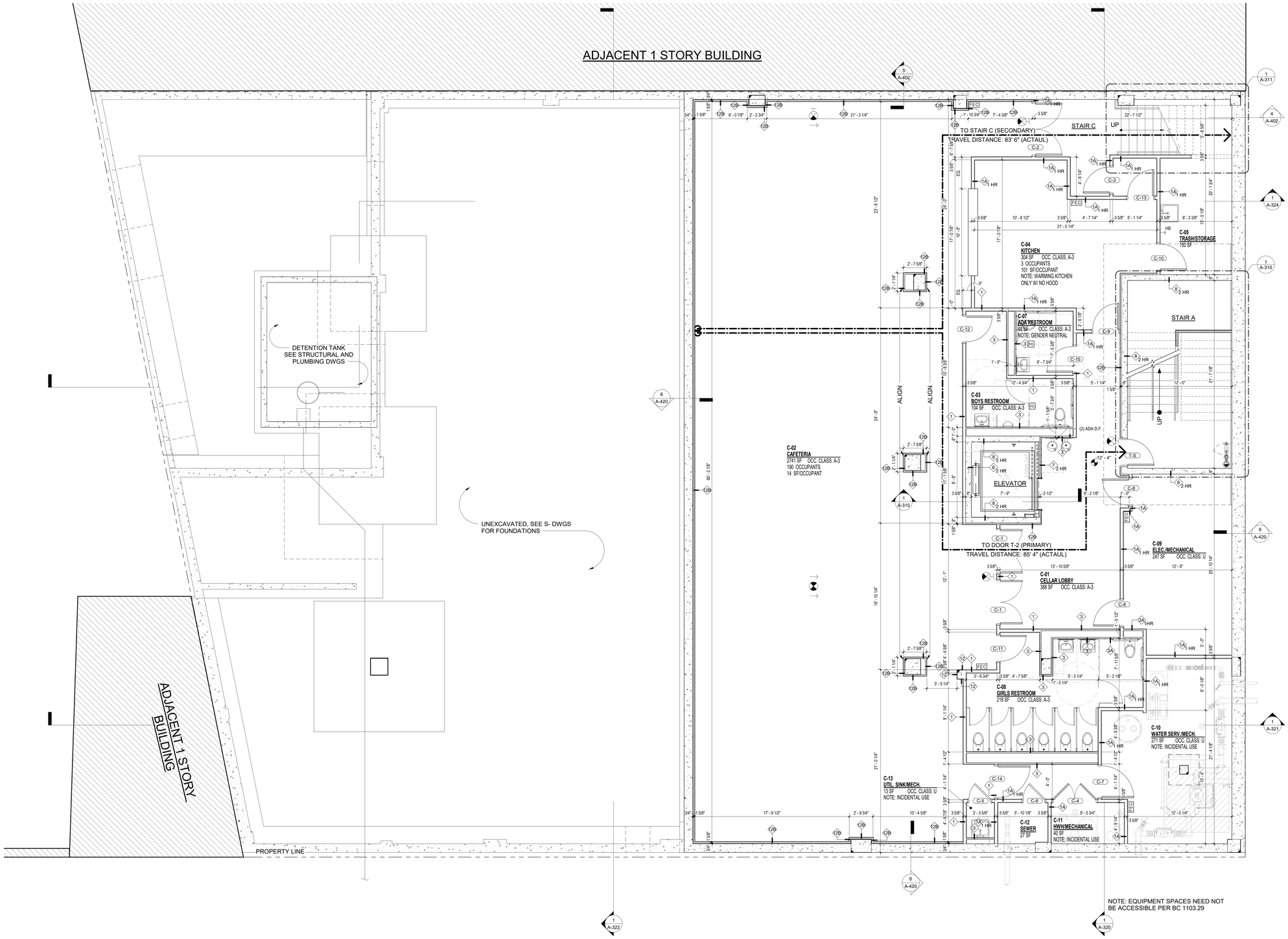
DRAWING TITLE
SITE PLAN

Seal & Signature:

DATE:	10/08/19
PROJECT #:	1918
DWG SCALE:	1 : 60
DRAWING NO.:	A-090.00

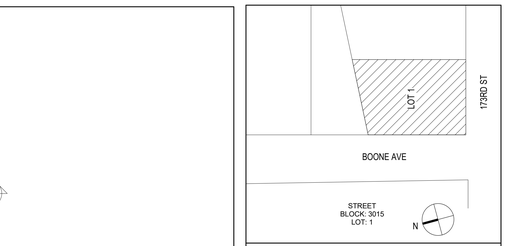
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N

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



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DOB NB#210180089

PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

CELLAR FLOOR PLAN

GENERAL NOTES

1. REFER TO REFLECTED CEILING PLAN (RCP) FOR ALL CEILING INFORMATION, INCLUDING THE LOCATION OF DIFFUSERS, LIGHTING, REGISTERS, ETC. REFER TO RCP FOR UNDERSIDE OF STRUCTURAL SLAB INFORMATION, HOWEVER ALL STRUCTURAL INFORMATION SHALL BE REFERENCED ON THE STRUCTURAL ENGINEER'S DRAWINGS.
2. REFER TO EDGE OF SLAB DRAWINGS FOR STRUCTURAL INFORMATION SUCH AS COLUMN LOCATIONS, OPENINGS, FLOOR DRAINS, TRENCHES, ETC., HOWEVER ALL STRUCTURAL INFORMATION SHALL BE REFERENCED ON THE STRUCTURAL ENGINEER'S DRAWINGS.
3. REFER TO MEP ELECTRICAL PLANS FOR ALL SWITCHING AND POWER LOCATIONS. ALL FINAL LOCATIONS MUST BE CONFIRMED W/ ARCHITECT AND LANDLORD PRIOR TO INSTALLATION.
4. ALL FURNITURE, EQUIPMENT, FIXTURES, AND APPLIANCES ARE SHOWN FOR REFERENCE ONLY. ALL FFE SUPPLY AND INSTALLATION ARE EXCLUDED, INCLUDING BUT NOT LIMITED TO BASKETBALL BACKBOARD, DIGITAL SCORE BOARD, PA SYSTEM, STEREO SYSTEM, BLEACHERS, LOCKERS, MILLWORK, BATHROOM ACCESSORIES, SHELVING.
5. INTERIOR PARTITIONS ARE DIMENSIONED TO THE STUD, UNLESS SHOWN OTHERWISE. CONTRACTOR SHALL ASSUME A ½" TOLERANCE FOR ALL DIMENSIONS, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL FACTOR IN ALL FINISH THICKNESSES AND RATED ENCLOSURES FOR ALL INTERIOR ROOM DIMENSIONS AND CLEARANCES. ALL REQUIRED DOOR CLEARANCES FOR ACCESSIBILITY SHALL BE MAINTAINED. ANY DISCREPANCIES MUST BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO THE START OF WORK.
6. INTERIOR FINISHES ARE SHOWN AS TYPICAL 5/8" GWB, SINGLE OR DOUBLE LAYER, DEPENDING ON PARTITION TYPE AND REQUIRED FIRE-RESISTIVE RATING. ANY SUPERFICIAL FINISHES MAY NOT ENCROACH ON ANY REQUIRED CLEARANCES.
7. REFER TO ELEVATOR CONSULTANT FOR ALL REQUIRED HOISTWAY CLEARANCES AND EQUIPMENT LOCATIONS. INTERIOR CAB DIMENSIONS MUST MEET THE MINIMUM DIMENSIONS REQUIRED FOR ACCESSIBILITY IN THE 2014 NYC BUILDING CODE AND ANSI A.117-2009.
8. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ANY REQUIRED FIRE-SUPPRESSION (ANSUL) SYSTEMS FOR THE HOT-SURFACE FOOD PREPARATION AREAS. CONTRACTOR SHALL SUPPLY TO ARCHITECT AND CONSULTANTS ALL REQUIREMENTS OF SUCH SYSTEM, INCLUDING BUT NOT LIMITED TO SPACE REQUIREMENTS AND MEP/FIRE ALARM SYSTEM CONNECTIONS.

EGRESS LEGEND

- 1hr — FIRE RESISTIVE PARTITION & ASSEMBLY RATING
- 1/2 — FIRE-RESISTIVE DOOR RATING (IN HOURS)
- (ID) 1'- 0" x 1'- 0" — DOOR NUMBER/DIMENSION
- EGRESS PATH PRIMARY AND SECONDARY

CELLAR FLOOR PLUMBING FIXTURE REQUIREMENTS

	OCCUPANCIES SERVED	OCCUPANT LOAD SERVED	MINIMUM REQUIRED WATER CLOSETS	MINIMUM REQUIRED LAVATORIES	WATER CLOSETS PROVIDED	LAVATORIES PROVIDED	COMPLIANT
BOYS RESTROOM	A-3 - CAFETERIA	97	1 PER 70 FOR FIRST 210 = **2 REQD.**	1 PER 200 = **1 REQD.**			
TOTAL			**2**	**1**	**2** (1 FIXTURE SERVING FIRST FLOOR, SEE A-101)	**2**	**YES**
GIRLS RESTROOM	A-3 - CAFETERIA	97	1 PER 35 FOR FIRST 210 = **3 REQD.**	1 PER 200 = **1 REQD.**			
TOTAL			**3**	**1**	**3** (4 FIXTURES SERVING FIRST FLOOR, SEE A-101)	**2**	**YES**

CELLAR LEVEL DOOR EGRESS ANALYSIS

DOOR (ID)	LOCATION	SIZE: WIDTH	SIZE: THICKNESS	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	FIRE RATING	COMPLIANT
C-1	CAFETERIA	60"	1 3/4"	0.2"	300	97	-	YES
C-2	CAFETERIA	72"	1 3/4"	0.2"	360	97	.75 HR	YES
T-S	STAIR A	36"	1 3/4"	0.2"	180	97	1.5 HR	YES

CELLAR LEVEL STAIR EGRESS ANALYSIS

STAIR NAME	STAIR WIDTH	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	COMPLIANT
STAIR A	70"	0.3"	233	97	YES
STAIR C	68"	0.3"	226	97	YES

CELLAR LEVEL EGRESS TRAVEL DISTANCE

EGRESS	DISTANCE (ACTUAL)	MAX DISTANCE (PERMITTED)	COMPLIANT	REMARKS
TO DOOR T-2 (PRIMARY)	85' - 4"	150'-0" (SPRINKLERED)	YES	-
TO STAIR C (SECONDARY)	83' - 6"	250'-0" (SPRINKLERED)	YES	DIRECT EXIT TO EXTERIOR, SEE DOOR E-4 ON A-101

EGRESS NOTES:
1. COMPONENT WIDTH MEASURED PER SECTION BC-1008.1.1.1.
2. OCCUPANT LOAD FACTOR PER SECTION BC-1005.1 (AND SECTION BC-1028.6 FOR ASSEMBLY SPACES).
3. SEE OCCUPANT LOAD CALCULATIONS ON A-021.
4. 50% OF REQUIRED CAPACITY FOR MULTIPLE MEANS OF EGRESS PER SECTION BC-1005.1

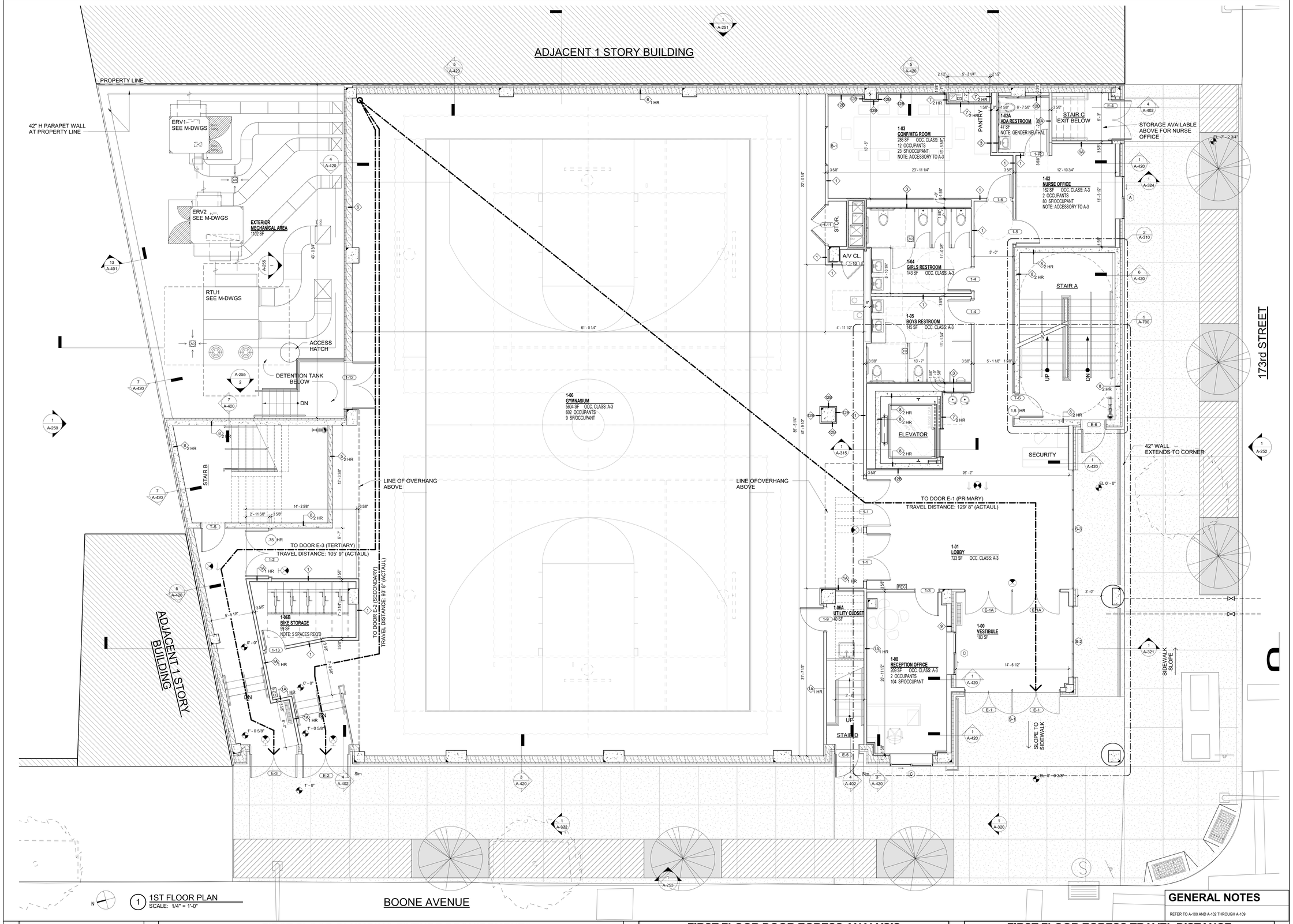
PLUMBING FIXTURE NOTES:
1. AS REQUIRED PER 2014 NYC PLUMBING CODE PC-403.1
2. OCCUPANT LOAD FACTOR PER SECTION BC-1005.1 (AND SECTION BC-1028.6 FOR ASSEMBLY SPACES).
3. SEE OCCUPANT LOAD CALCULATIONS ON A-021.
4. DRINKING FOUNTAIN PROVIDED PER PC-403.1 AND PC-410.1.
5. SERVICE SINK PROVED PER PC-403.1
6. ACCESSIBLE FIXTURES PROVIDED AS PER BC-1109
7. OCCUPANT LOAD CALCULATED BY GENDER PER PC-403.1.1

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: As indicated
DRAWING NO.: A-100.00

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1 1ST FLOOR PLAN
SCALE: 1/4" = 1'-0"

EGRESS LEGEND

- 1 / 1hr — FIRE RESISTIVE PARTITION & ASSEMBLY RATING
- 1/2 — FIRE-RESISTIVE DOOR RATING (IN HOURS)
- (1D) 1'-0" x 1'-0" — DOOR NUMBER/DIMENSION
- EGRESS PATH PRIMARY AND SECONDARY

FIRST FLOOR PLUMBING FIXTURE REQUIREMENTS

	OCCUPANCIES SERVED	OCCUPANT LOAD	MINIMUM REQUIRED WATER CLOSETS	MINIMUM REQUIRED LAVATORIES	WATER CLOSETS PROVIDED	LAVATORIES PROVIDED	COMPLIANT
BOYS RESTROOM	A-3 - GYMNASIUM	309	1 PER 70 FOR FIRST 210 = **5 REQD.**	1 PER 200 = **2 REQD.**			
TOTAL			**5**	**2**	**5** (4 ON FIRST FLOOR, 1 ON CELLAR LEVEL)	**3**	**YES**
GIRLS RESTROOM	A-3 - GYMNASIUM	309	1 PER 35 FOR FIRST 210 = **9 REQD.**	1 PER 200 = **2 REQD.**			
TOTAL			**9**	**2**	**9** (5 ON FIRST FLOOR, 4 ON CELLAR LEVEL)	**3**	**YES**

FIRST FLOOR DOOR EGRESS ANALYSIS

DOOR (ID)	LOCATION	SIZE WIDTH	SIZE THICKNESS	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	FIRE RATING	COMPLIANT
1-1	GYMNASIUM	72"	1 3/4"	0.2"	360	201	-	YES
1-2	GYMNASIUM	72"	1 3/4"	0.2"	360	201	.75 HR	YES
E-1	ENTRY/VESTIBULE	72"	2"	0.2"	360	201		YES
E-1A	ENTRY/VESTIBULE	72"	2"	0.2"	360	201		YES
E-2	GYMNASIUM	72"	1 3/4"	0.2"	360	201	-	YES
E-3	GYMNASIUM	72"	1 3/4"	0.2"	360	201 + 126 = 327	-	YES
E-4	STAIR C	60"	1 3/4"	0.2"	300	97	-	YES
E-5	STAIR D	36"	1 3/4"	0.2"	180	14	-	YES
E-6	STAIR A	72"	1 3/4"	0.2"	360	126	1.5 HR	YES
T-S	STAIR B	72"	1 3/4"	0.2"	360	126	1.5 HR	YES

FIRST FLOOR STAIR EGRESS ANALYSIS

STAIR NAME	STAIR WIDTH	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	COMPLIANT
STAIR A	72"	0.3"	239	140	YES
STAIR B	72"	0.3"	239	126	YES
STAIR D	44"	0.3"	146	14	YES

FIRST FLOOR EGRESS TRAVEL DISTANCE

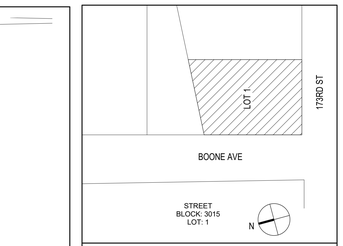
EGRESS	DISTANCE (ACTUAL)	MAX DISTANCE (PERMITTED)	COMPLIANT	REMARKS
TO DOOR E-1 (PRIMARY)	129' - 8"	150'-0" (SPRINKLERED)	YES	
TO DOOR E-2 (SECONDARY)	92' - 2"	250'-0" (SPRINKLERED)	YES	
TO DOOR E-3 (TERTIARY)	105' - 9"	250'-0" (SPRINKLERED)	YES	REQUIRED, OCCUPANCY GREATER THAN 500

EGRESS NOTES:
1. COMPONENT WIDTH MEASURED PER SECTION BC-1008.1.1.1.
2. OCCUPANT LOAD FACTOR PER SECTION BC-1005.1 (AND SECTION BC-1028.6 FOR ASSEMBLY SPACES).
3. SEE OCCUPANT LOAD CALCULATIONS ON A-021.
4. 50% OF REQUIRED CAPACITY FOR MULTIPLE MEANS OF EGRESS PER SECTION BC-1005.1

PLUMBING FIXTURE NOTES:
1. AS REQUIRED PER 2014 NYC PLUMBING CODE PC-403.1
2. OCCUPANT LOAD FACTOR PER SECTION BC-1005.1 (AND SECTION BC-1028.6 FOR ASSEMBLY SPACES).
3. SEE OCCUPANT LOAD CALCULATIONS ON A-021.
4. DRINKING FOUNTAIN PROVIDED PER PC-403.1 AND PC-410.1.
5. SERVICE SINK PROVED PER PC-403.1
6. ACCESSIBLE FIXTURES PROVIDED AS PER BC-1109
7. OCCUPANT LOAD CALCULATED BY GENDER PER PC-403.1.1

GENERAL NOTES

REFER TO A-100 AND A-102 THROUGH A-109



NOT FOR CONSTRUCTION

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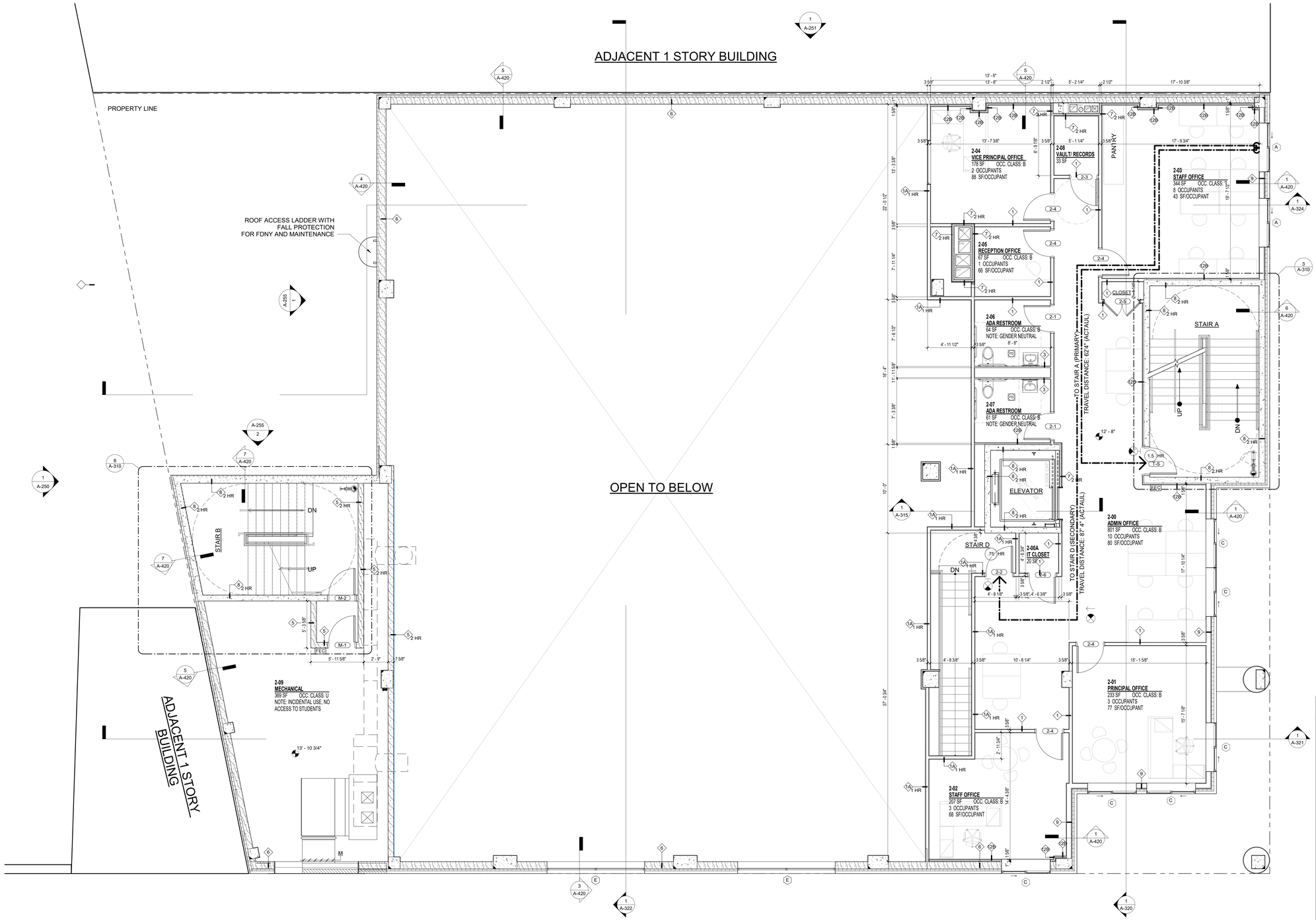
DRAWING TITLE
1ST FLOOR PLAN

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: As indicated
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1 2ND FLR (ADMIN) PLAN
SCALE: 1/4" = 1'-0"

EGRESS LEGEND

- FIRE RESISTIVE PARTITION & ASSEMBLY RATING
- FIRE-RESISTIVE DOOR RATING (IN HOURS)
- DOOR NUMBER/DIMENSION 1' - 0" x 1' - 0"
- EGRESS PATH PRIMARY AND SECONDARY

SECOND FLOOR FLOOR PLUMBING FIXTURE REQUIREMENTS

	OCCUPANCIES SERVED	OCCUPANT LOAD	MINIMUM REQUIRED WATER CLOSETS	MINIMUM REQUIRED LAVATORIES	WATER CLOSETS PROVIDED	LAVATORIES PROVIDED	COMPLIANT
ADA RESTROOMS 2-06, 2-07	B - BUSINESS	28	1 PER 20 PEOPLE OF EACH SEX = **2 REQ'D**	1 PER 25 PEOPLE OF EACH SEX = **2 REQ'D**			
TOTAL			**2**	**2**	**2**	**2**	**YES**

SECOND FLOOR DOOR EGRESS ANALYSIS

DOOR (ID)	LOCATION	SIZE WIDTH	SIZE THICKNESS	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	FIRE RATING	COMPLIANT
2-2	STAIR D	36"	1 3/4"	0.2"	180	14	.75 HR	YES
2-4	OFFICES	36"	1 3/4"	0.2"	180	8	-	YES
T-S	STAIR A	36"	1 3/4"	0.2"	180	14	1.5 HR	YES

SECOND FLOOR STAIR EGRESS ANALYSIS

STAIR NAME	STAIR WIDTH	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	COMPLIANT
STAIR A	72"	0.3"	240	140	YES

SECOND FLOOR EGRESS TRAVEL DISTANCE

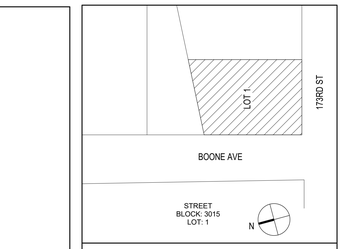
EGRESS	DISTANCE (ACTUAL)	MAX DISTANCE (PERMITTED)	COMPLIANT	REMARKS
TO STAIR A (PRIMARY)	62' - 4"	300'-0" (SPRINKLERED)	YES	
TO STAIR D (SECONDARY)	87' - 4"	300'-0" (SPRINKLERED)	YES	

EGRESS NOTES:
1. COMPONENT WIDTH MEASURED PER SECTION BC-1008.1.1.1.
2. OCCUPANT LOAD FACTOR PER SECTION BC-1005.1 (AND SECTION BC-1028.6 FOR ASSEMBLY SPACES).
3. SEE OCCUPANT LOAD CALCULATIONS ON A-021.
4. 50% OF REQUIRED CAPACITY FOR MULTIPLE MEANS OF EGRESS PER SECTION BC-1005.1

PLUMBING FIXTURE NOTES:
1. AS REQUIRED PER 2014 NYC PLUMBING CODE PC-403.1
2. OCCUPANT LOAD FACTOR PER SECTION BC-1005.1 (AND SECTION BC-1028.6 FOR ASSEMBLY SPACES).
3. SEE OCCUPANT LOAD CALCULATIONS ON A-021.
4. DRINKING FOUNTAIN PROVIDED PER PC-403.1 AND PC-410.1.
5. SERVICE SINK PROVED PER PC-403.1
6. ACCESSIBLE FIXTURES PROVIDED AS PER BC-1109
7. OCCUPANT LOAD CALCULATED BY GENDER PER PC-403.1.1

GENERAL NOTES

1. REFER TO REFLECTED CEILING PLAN (RCP) FOR ALL CEILING INFORMATION, INCLUDING THE LOCATION OF DIFFUSERS, LIGHTING, REGISTERS, ETC. REFER TO RCP FOR UNDERSIDE OF STRUCTURAL SLAB INFORMATION, HOWEVER ALL STRUCTURAL INFORMATION SHALL BE REFERENCED ON THE STRUCTURAL ENGINEER'S DRAWINGS.
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6. INTERIOR FINISHES ARE SHOWN AS TYPICAL 5/8" GWB, SINGLE OR DOUBLE LAYER, DEPENDING ON PARTITION TYPE AND REQUIRED FIRE-RESISTIVE RATING. ANY SUPERFICIAL FINISHES MAY NOT ENCROACH ON ANY REQUIRED CLEARANCES.
7. REFER TO ELEVATOR CONSULTANT FOR ALL REQUIRED HOISTWAY CLEARANCES AND EQUIPMENT LOCATIONS. INTERIOR CAB DIMENSIONS MUST MEET THE MINIMUM DIMENSIONS REQUIRED FOR ACCESSIBILITY IN THE 2014 NYC BUILDING CODE AND ANSI A.117-2009.
8. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ANY REQUIRED FIRE-SUPPRESSION (ANSUL) SYSTEMS FOR THE HOT-SURFACE FOOD PREPARATION AREAS. CONTRACTOR SHALL SUPPLY TO ARCHITECT AND CONSULTANTS ALL REQUIREMENTS OF SUCH SYSTEM, INCLUDING BUT NOT LIMITED TO SPACE REQUIREMENTS AND MEP/FIRE ALARM SYSTEM CONNECTIONS.



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	10/08/19	90% CD
	09/23/19	85% PROGRESS SET
	08/02/19	DOB FILING / 50% CD

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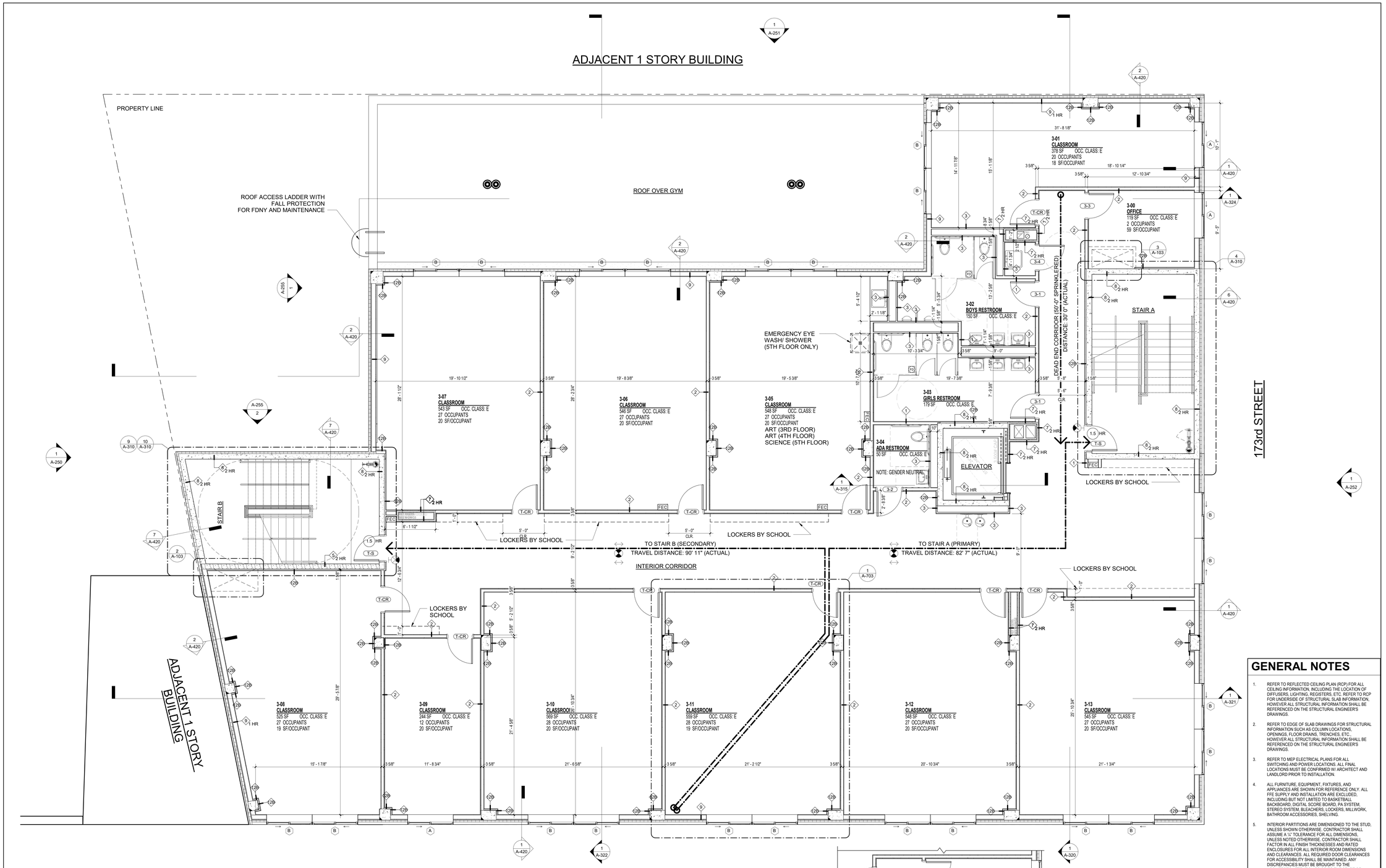
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Seal & Signature:

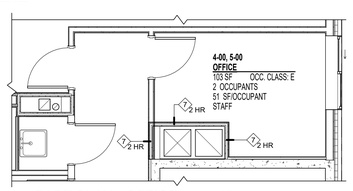
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PROJECT #: 1918
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DRAWING NO.: A-102.00

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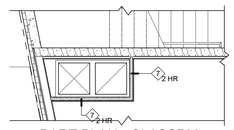


3RD-5TH FLOOR PLAN (TYPICAL FLOOR)
SCALE: 1/4" = 1'-0"



PART PLAN - OFFICE AT 4TH, 5TH FLOORS
SCALE: 1/4" = 1'-0"

NOTE: SEE EDGE OF SLAB DRAWINGS FOR SHAFT SIZES AT ALL FLOOR (TYP.)



PART PLAN - CLASSRM AT 4TH, 5TH FLOORS
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO REFLECTED CEILING PLAN (RCP) FOR ALL CEILING INFORMATION, INCLUDING THE LOCATION OF DIFFUSERS, LIGHTING, REGISTERS, ETC. REFER TO RCP FOR UNDERSIDE OF STRUCTURAL SLAB INFORMATION, HOWEVER ALL STRUCTURAL INFORMATION SHALL BE REFERENCED ON THE STRUCTURAL ENGINEER'S DRAWINGS.
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6. INTERIOR FINISHES ARE SHOWN AS TYPICAL(5/8" GWB, SINGLE OR DOUBLE LAYER, DEPENDING ON PARTITION TYPE AND REQUIRED FIRE-RESISTIVE RATING. ANY SUPERFICIAL FINISHES MAY NOT ENCROACH ON ANY REQUIRED CLEARANCES.
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EGRESS LEGEND

- FIRE RESISTIVE PARTITION & ASSEMBLY RATING (1 hr)
- FIRE-RESISTIVE DOOR RATING (IN HOURS) (1/2)
- DOOR NUMBER/DIMENSION (ID) 1' - 0" x 1' - 0"
- EGRESS PATH PRIMARY AND SECONDARY

THIRD - FIFTH FLOOR (TYPICAL) PLUMBING FIXTURE REQUIREMENTS

	OCCUPANCIES SERVED	OCCUPANT LOAD	MINIMUM REQUIRED WATER CLOSETS	MINIMUM REQUIRED LAVATORIES	WATER CLOSETS PROVIDED	LAVATORIES PROVIDED	COMPLIANT
BOYS RESTROOM	E - CLASSROOMS	126	1 PER 50 = **3 REQD.**	1 PER 50 = **3 REQD.**			
TOTAL			**3**	**3**	**4**	**3**	**YES**
GIRLS RESTROOM	E - CLASSROOMS	126	1 PER 50 = **3 REQD.**	1 PER 50 = **3 REQD.**			
TOTAL			**3**	**3**	**4**	**4**	**YES**

THIRD - FIFTH FLOOR DOOR EGRESS ANALYSIS

DOOR (ID)	LOCATION	SIZE WIDTH	SIZE THICKNESS	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	FIRE RATING	COMPLIANT
T-CR	CLASSROOM	36"	1 3/4"	0.2"	180	28 (MAX)		YES
T-S	STAIR	36"	1 3/4"	0.2"	180	126	1.5 HR	YES

THIRD - FIFTH FLOOR STAIR EGRESS ANALYSIS

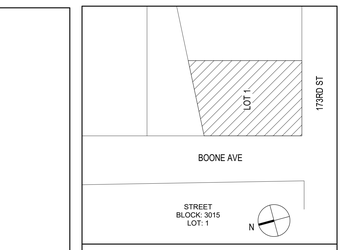
STAIR NAME	STAIR WIDTH	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	COMPLIANT
STAIR A	72"	0.3"	240	126	YES
STAIR B	72"	0.3"	240	126	YES

THIRD - FIFTH FLOOR EGRESS TRAVEL DISTANCE

EGRESS	DISTANCE (ACTUAL)	MAX DISTANCE (PERMITTED)	COMPLIANT	REMARKS
TO STAIR A (PRIMARY)	82' - 7"	200'-0" (SPRINKLERED)	YES	
TO STAIR B (SECONDARY)	90' - 11"	200'-0" (SPRINKLERED)	YES	

EGRESS NOTES:
1. COMPONENT WIDTH MEASURED PER SECTION BC-1008.1.1.1.
2. OCCUPANT LOAD FACTOR PER SECTION BC-1005.1 (AND SECTION BC-1028.6 FOR ASSEMBLY SPACES).
3. SEE OCCUPANT LOAD CALCULATIONS ON A-021.
4. 50% OF REQUIRED CAPACITY FOR MULTIPLE MEANS OF EGRESS PER SECTION BC-1005.1

PLUMBING FIXTURE NOTES:
1. AS REQUIRED PER 2014 NYC PLUMBING CODE PC-403.1
2. OCCUPANT LOAD FACTOR PER SECTION BC-1005.1 (AND SECTION BC-1028.6 FOR ASSEMBLY SPACES).
3. SEE OCCUPANT LOAD CALCULATIONS ON A-021.
4. DRINKING FOUNTAIN PROVIDED PER PC-403.1 AND PC-410.1.
5. SERVICE SINK PROVED PER PC-403.1
6. ACCESSIBLE FIXTURES PROVIDED AS PER BC-1109
7. OCCUPANT LOAD CALCULATED BY GENDER PER PC-403.1.1



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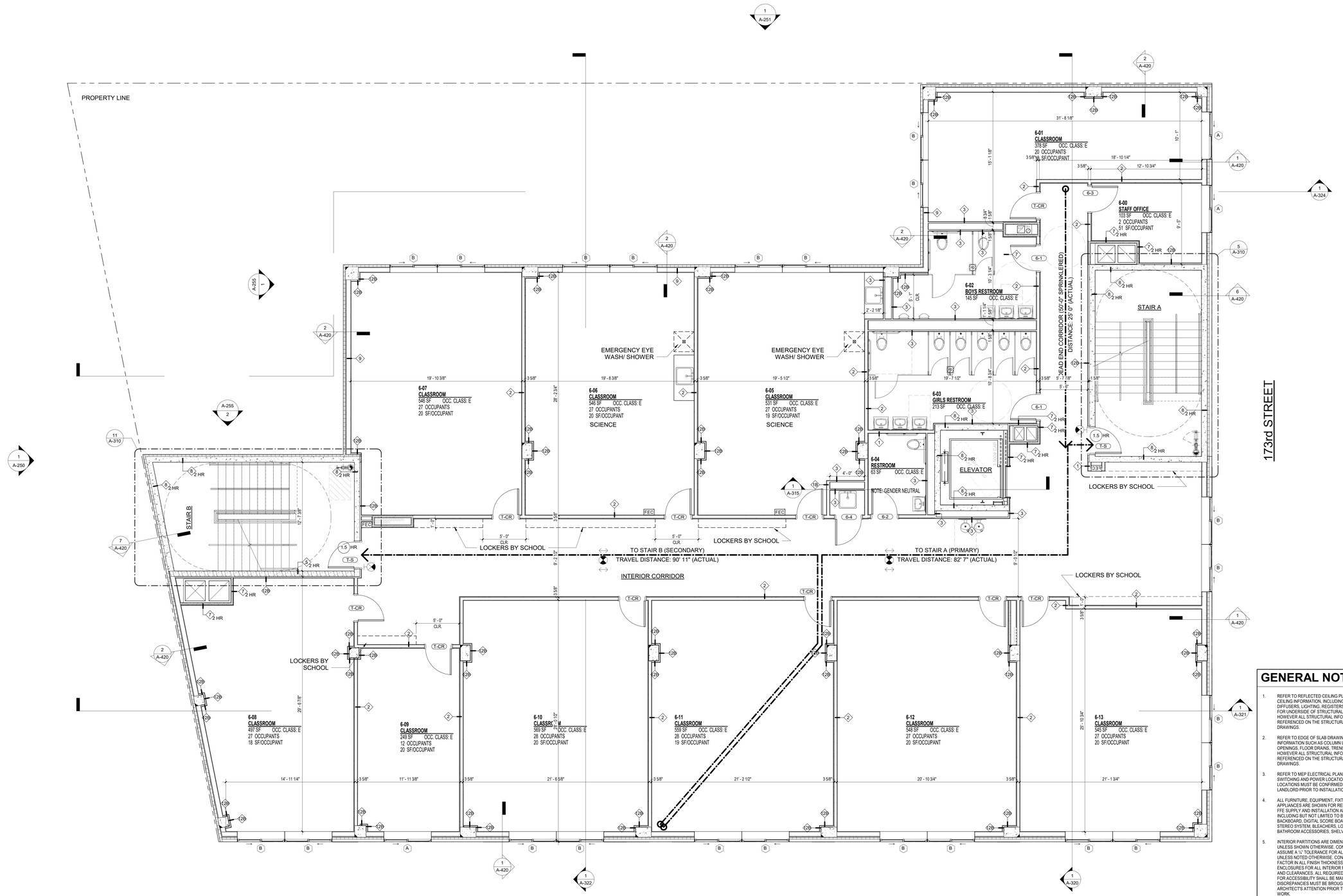
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3RD-5TH FLOOR PLAN (TYPICAL)

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: As indicated
DRAWING NO.: A-103.00

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N

1 6TH FLOOR PLAN
SCALE: 1/4" = 1'-0"

EGRESS LEGEND

- FIRE RESISTIVE PARTITION & ASSEMBLY RATING (1 hr)
- FIRE-RESISTIVE DOOR RATING (IN HOURS) (1/2)
- DOOR NUMBER/DIMENSION (ID) 1' - 0" x 1' - 0"
- EGRESS PATH PRIMARY AND SECONDARY

6TH FLOOR PLUMBING FIXTURE REQUIREMENTS

	OCCUPANCIES SERVED	OCCUPANT LOAD	MINIMUM REQUIRED WATER CLOSETS	MINIMUM REQUIRED LAVATORIES	WATER CLOSETS PROVIDED	LAVATORIES PROVIDED	COMPLIANT
BOYS RESTROOM	E - CLASSROOMS	126	1 PER 50 = **3 REQD.**	1 PER 50 = **3 REQ.**			
TOTAL			**3**	**3**	**3** (1 FIXTURE SERVING ROOF, SEE A-107)	**3**	**YES**
GIRLS RESTROOM ADA RESTROOM	E - CLASSROOMS	126	1 PER 50 = **3 REQD.**	1 PER 50 = **3 REQD.**			
TOTAL			**3**	**3**	**4** (3 FIXTURES SERVING FIRST FLOOR, SEE A-107)	**3** (1 FIXTURE SERVING FIRST FLOOR, SEE A-107)	**YES**

SIXTH FLOOR DOOR EGRESS ANALYSIS

DOOR (ID)	LOCATION	SIZE WIDTH	SIZE THICKNESS	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	FIRE RATING	COMPLIANT
T-CR	CLASSROOM	36"	1 3/4"	0.2"	180	28 (MAX)	-	YES
T-S	STAIR	36"	1 3/4"	0.2"	180	126	1.5 HR	YES

SIXTH FLOOR STAIR EGRESS ANALYSIS

STAIR NAME	STAIR WIDTH	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	COMPLIANT
STAIR A	72"	0.3"	240	126	YES
STAIR B	72"	0.3"	240	126	YES

SIXTH FLOOR EGRESS TRAVEL DISTANCE

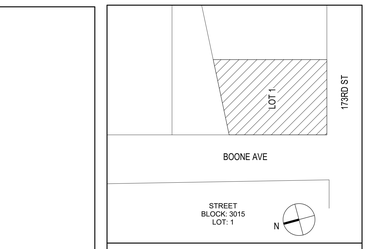
EGRESS	DISTANCE (ACTUAL)	MAX DISTANCE (PERMITTED)	COMPLIANT	REMARKS
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EGRESS NOTES:
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2. OCCUPANT LOAD FACTOR PER SECTION BC-1005.1 (AND SECTION BC-1028.6 FOR ASSEMBLY SPACES).
3. SEE OCCUPANT LOAD CALCULATIONS ON A-021.
4. 50% OF REQUIRED CAPACITY FOR MULTIPLE MEANS OF EGRESS PER SECTION BC-1005.1

PLUMBING FIXTURE NOTES:
1. AS REQUIRED PER 2014 NYC PLUMBING CODE PC-403.1
2. OCCUPANT LOAD FACTOR PER SECTION BC-1005.1 (AND SECTION BC-1028.6 FOR ASSEMBLY SPACES).
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4. DRINKING FOUNTAIN PROVIDED PER PC-403.1 AND PC-410.1.
5. SERVICE SINK PROVED PER PC-403.1
6. ACCESSIBLE FIXTURES PROVIDED AS PER BC-1109
7. OCCUPANT LOAD CALCULATED BY GENDER PER PC-403.1.1

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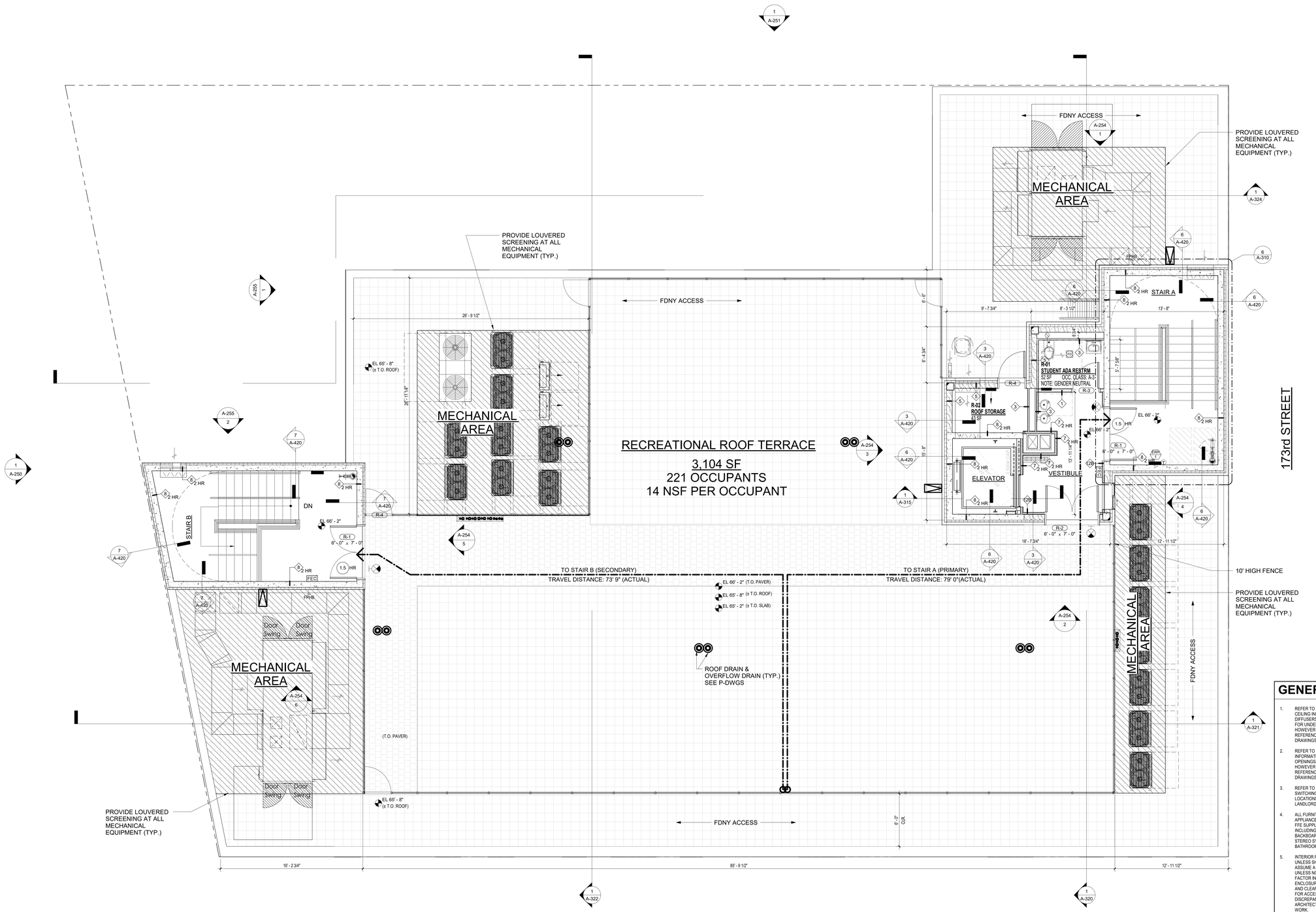
DRAWING TITLE
6TH FLOOR PLAN

Seal & Signature:

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

EGRESS LEGEND

- FIRE RESISTIVE PARTITION & ASSEMBLY RATING (1 hr)
- FIRE-RESISTIVE DOOR RATING (IN HOURS) (1/2)
- DOOR NUMBER/DIMENSION (ID) 1'-0" x 1'-0"
- EGRESS PATH PRIMARY AND SECONDARY

ROOF PLUMBING FIXTURE REQUIREMENTS

	OCCUPANCIES SERVED	OCCUPANT LOAD	MINIMUM REQUIRED WATER CLOSETS	MINIMUM REQUIRED LAVATORIES	WATER CLOSETS PROVIDED	LAVATORIES PROVIDED	COMPLIANT
BOYS RESTROOM	A-3 - ROOF TERRACE	110	1 PER 70 FOR FIRST 210 = **2 REQD.**	1 PER 200 =1 **REQD.**			
TOTAL			**2**	**1**	**2** (1 ON ROOF LEVEL, 1 ON SIXTH FLOOR)	**1**	**YES**
GIRLS RESTROOM	A-3 - ROOF TERRACE	111	1 PER 35 FOR FIRST 210 = **3 REQD.**	1 PER 200 = 1 **REQD.**			
TOTAL			**3**	**1**	**3** (3 ON SIXTH FLOOR)	**1** (1 ON SIXTH FLOOR)	**YES**

ROOF DOOR EGRESS ANALYSIS

DOOR (ID)	LOCATION	SIZE WIDTH	SIZE THICKNESS	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	FIRE RATING	COMPLIANT
R-1	ROOF STAIR	72"	1 3/4"	0.2"	360	111	1.5 HR	YES
R-2	VESTIBULE	72"	1 3/4"	0.2"	360	110	-	YES

ROOF STAIR EGRESS ANALYSIS

STAIR NAME	STAIR WIDTH	REQ'D. WIDTH PER OCCUPANT	CAPACITY	OCCUPANT LOAD SERVED	COMPLIANT
STAIR A	72"	0.3"	240	111	YES
STAIR A	72"	0.3"	240	126	YES

ROOF EGRESS TRAVEL DISTANCE

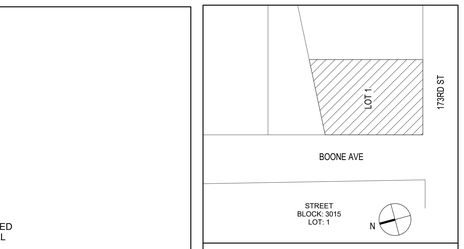
EGRESS	DISTANCE (ACTUAL)	MAX DISTANCE (PERMITTED)	COMPLIANT	REMARKS
TO STAIR A (PRIMARY)	79' - 0"	100'-0" (NON-SPRINKLERED)	YES	
TO STAIR B (SECONDARY)	73' - 9"	150'-0" (NON-SPRINKLERED)	YES	

EGRESS NOTES:
1. COMPONENT WIDTH MEASURED PER SECTION BC-1008.1.1.1.
2. OCCUPANT LOAD FACTOR PER SECTION BC-1005.1 (AND SECTION BC-1028.6 FOR ASSEMBLY SPACES).
3. SEE OCCUPANT LOAD CALCULATIONS ON A-021.
4. 50% OF REQUIRED CAPACITY FOR MULTIPLE MEANS OF EGRESS PER SECTION BC-1005.1

PLUMBING FIXTURE NOTES:
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2. OCCUPANT LOAD FACTOR PER SECTION BC-1005.1 (AND SECTION BC-1028.6 FOR ASSEMBLY SPACES).
3. SEE OCCUPANT LOAD CALCULATIONS ON A-021.
4. DRINKING FOUNTAIN PROVIDED PER PC-403.1 AND PC-410.1.
5. SERVICE SINK PROVIDED PER PC-403.1
6. ACCESSIBLE FIXTURES PROVIDED AS PER BC-1109
7. OCCUPANT LOAD CALCULATED BY GENDER PER PC-403.1.1

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	08/02/19	DOB FILING / 50% CD

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PROJECT NAME
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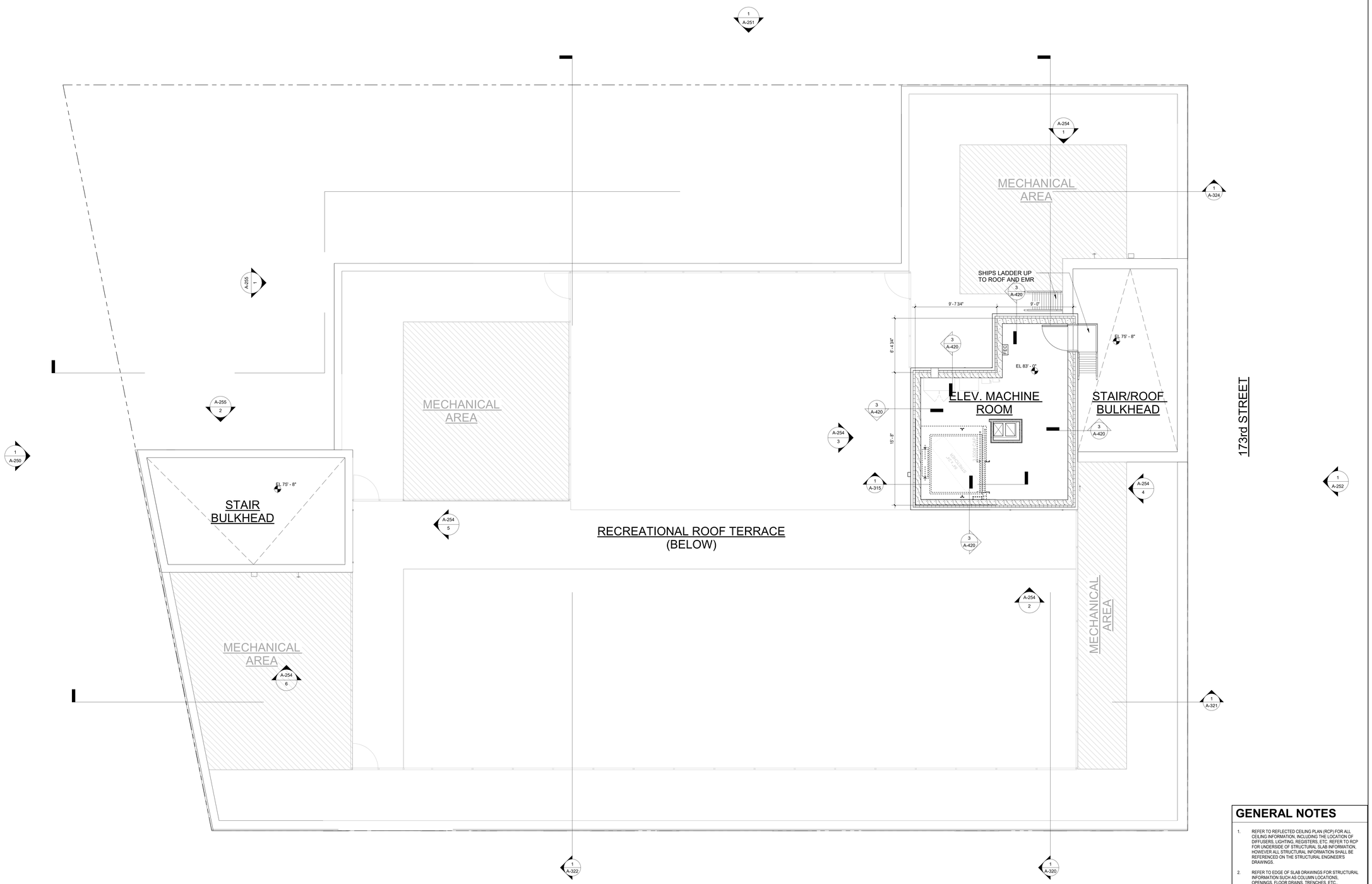
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ROOF FLOOR PLAN

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: As indicated
DRAWING NO.: A-107.00

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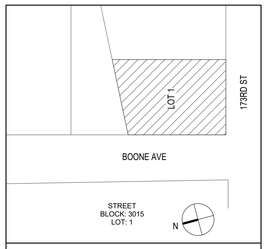


N

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

GENERAL NOTES

1. REFER TO REFLECTED CEILING PLAN (RCP) FOR ALL CEILING INFORMATION, INCLUDING THE LOCATION OF DIFFUSERS, LIGHTING, REGISTERS, ETC. REFER TO RCP FOR UNDERSIDE OF STRUCTURAL SLAB INFORMATION, HOWEVER ALL STRUCTURAL INFORMATION SHALL BE REFERENCED ON THE STRUCTURAL ENGINEER'S DRAWINGS.
2. REFER TO EDGE OF SLAB DRAWINGS FOR STRUCTURAL INFORMATION SUCH AS COLUMN LOCATIONS, OPENINGS, FLOOR DRAINS, TRENCHES, ETC., HOWEVER ALL STRUCTURAL INFORMATION SHALL BE REFERENCED ON THE STRUCTURAL ENGINEER'S DRAWINGS.
3. REFER TO MEP ELECTRICAL PLANS FOR ALL SWITCHING AND POWER LOCATIONS. ALL FINAL LOCATIONS MUST BE CONFIRMED W/ ARCHITECT AND LANDLORD PRIOR TO INSTALLATION.
4. ALL FURNITURE, EQUIPMENT, FIXTURES, AND APPLIANCES ARE SHOWN FOR REFERENCE ONLY. ALL FFE SUPPLY AND INSTALLATION ARE EXCLUDED, INCLUDING BUT NOT LIMITED TO BASKETBALL BACKBOARD, DIGITAL SCORE BOARD, PA SYSTEM, STEREO SYSTEM, BLEACHERS, LOCKERS, MILLWORK, BATHROOM ACCESSORIES, SHELVING.
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DOB NB#210180089

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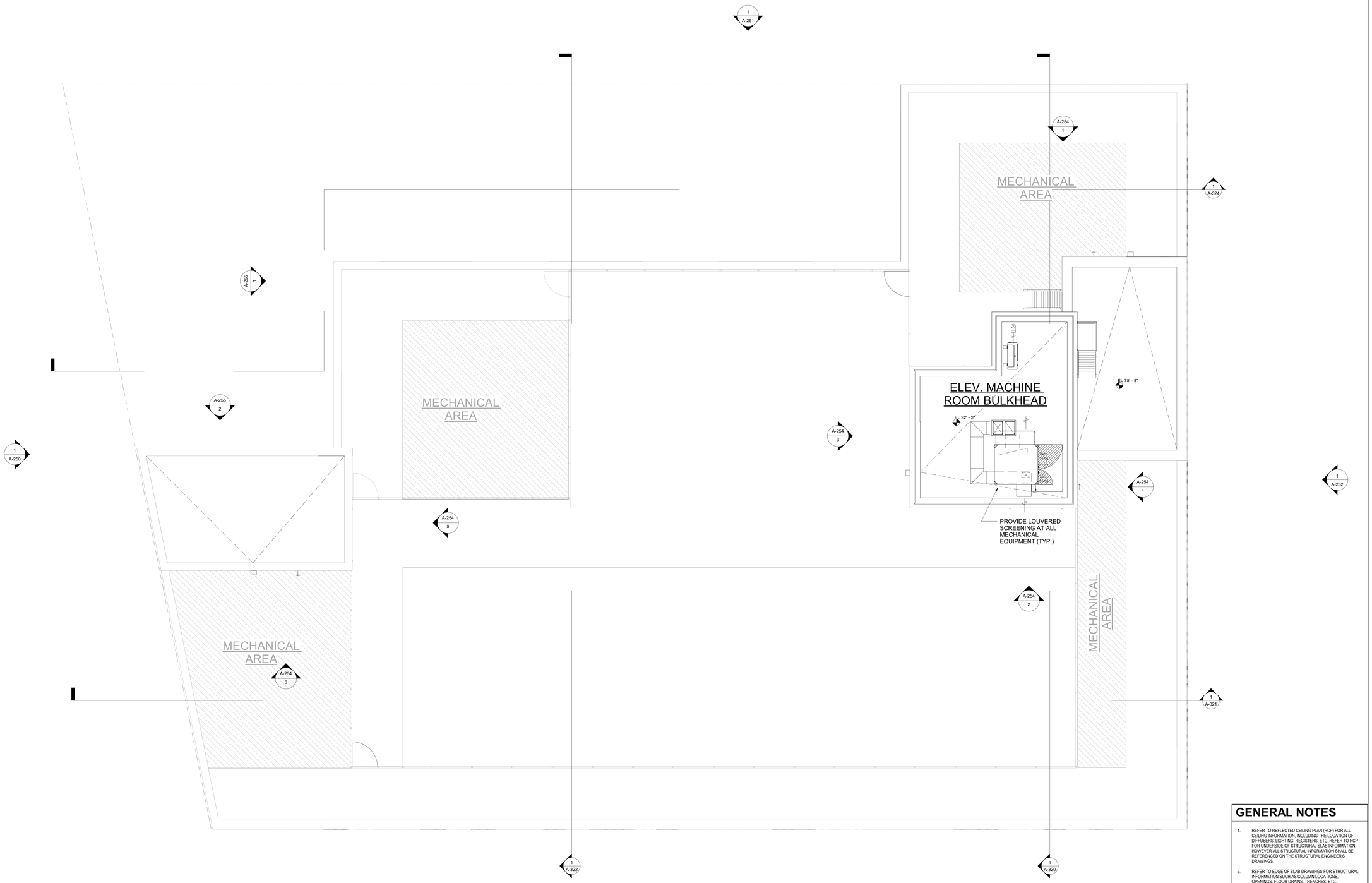
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Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: As indicated
DRAWING NO.:
A-108.00

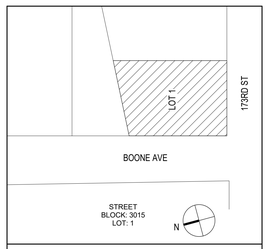
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N

1 ROOF AT ELEVATOR OVERRUN
SCALE: 1/4" = 1'-0"



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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
ELEVATOR OVERRUN BULKHEAD ROOF PLAN

GENERAL NOTES

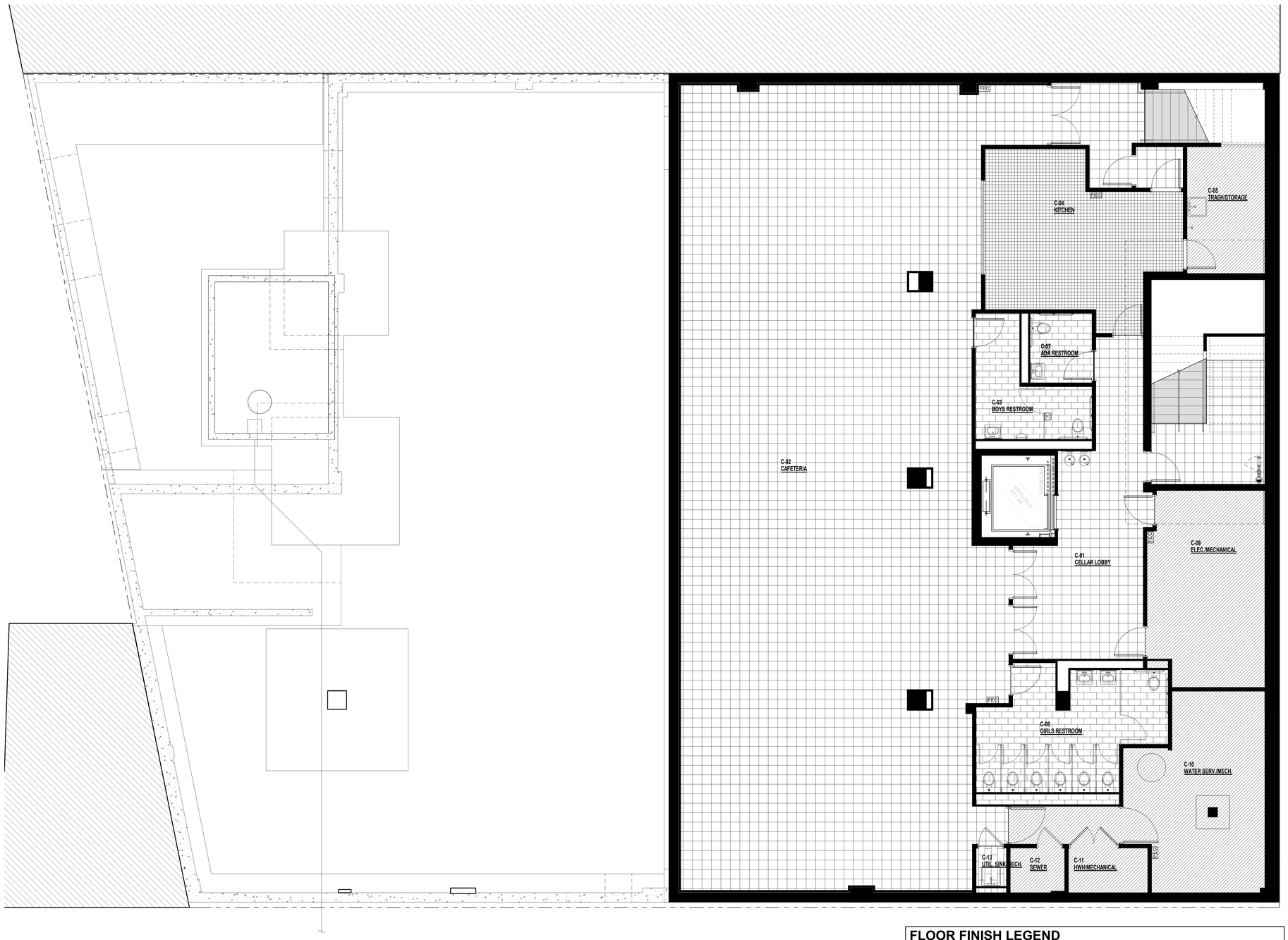
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Seal & Signature:

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DWG SCALE:	As indicated
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1 CELLAR FLOOR FINISH PLAN
SCALE: 1/4" = 1'-0"

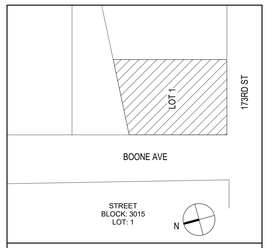
FLOOR FINISH LEGEND

CPT-01 EP-01 WD-01 QT-01 RP-01

CT-01 VCT-01 WM-01 RT-01

FINISH NOTES:

1. REFER TO FINISH KEY SCHEDULE/A-530 FOR MORE INFORMATION.
2. ALL FLOOR FINISH AREAS NOT DENOTED ARE TO BE EXPOSED CONCRETE SLAB, BROOM FINISHED AND SEALED.



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	09/23/19	85% PROGRESS SET

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DOB NB#210180089

PROJECT NAME
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Bronx, New York 10460

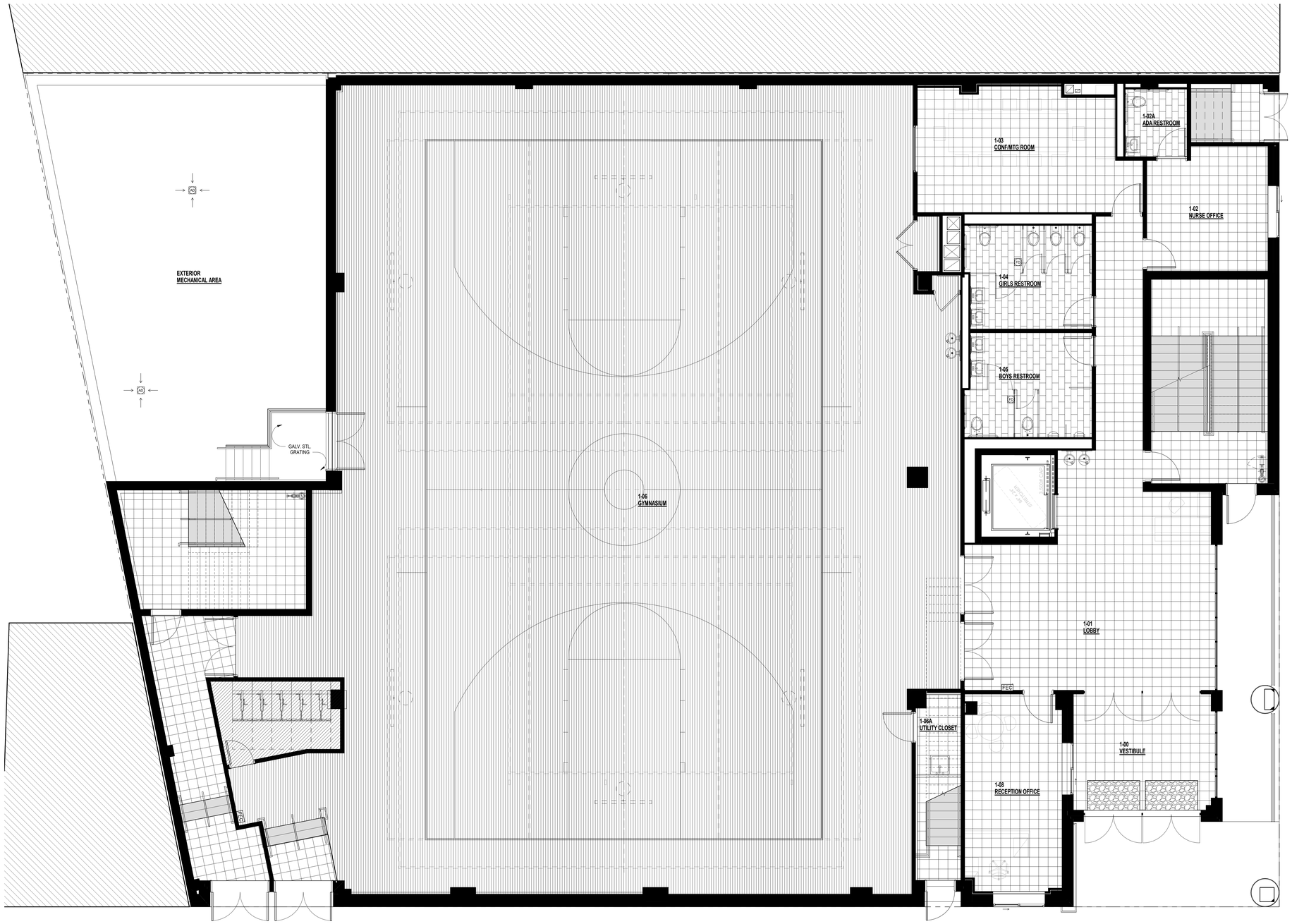
DRAWING TITLE
CELLAR FINISH PLAN

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
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DRAWING NO.:
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1 1ST FLR FINISH PLAN
SCALE: 1/4" = 1'-0"

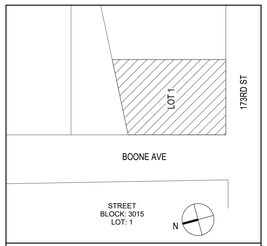
FLOOR FINISH LEGEND

CPT-01 EP-01 WD-01 QT-01 RP-01

CT-01 VCT-01 WM-01 RT-01

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PROJECT NAME
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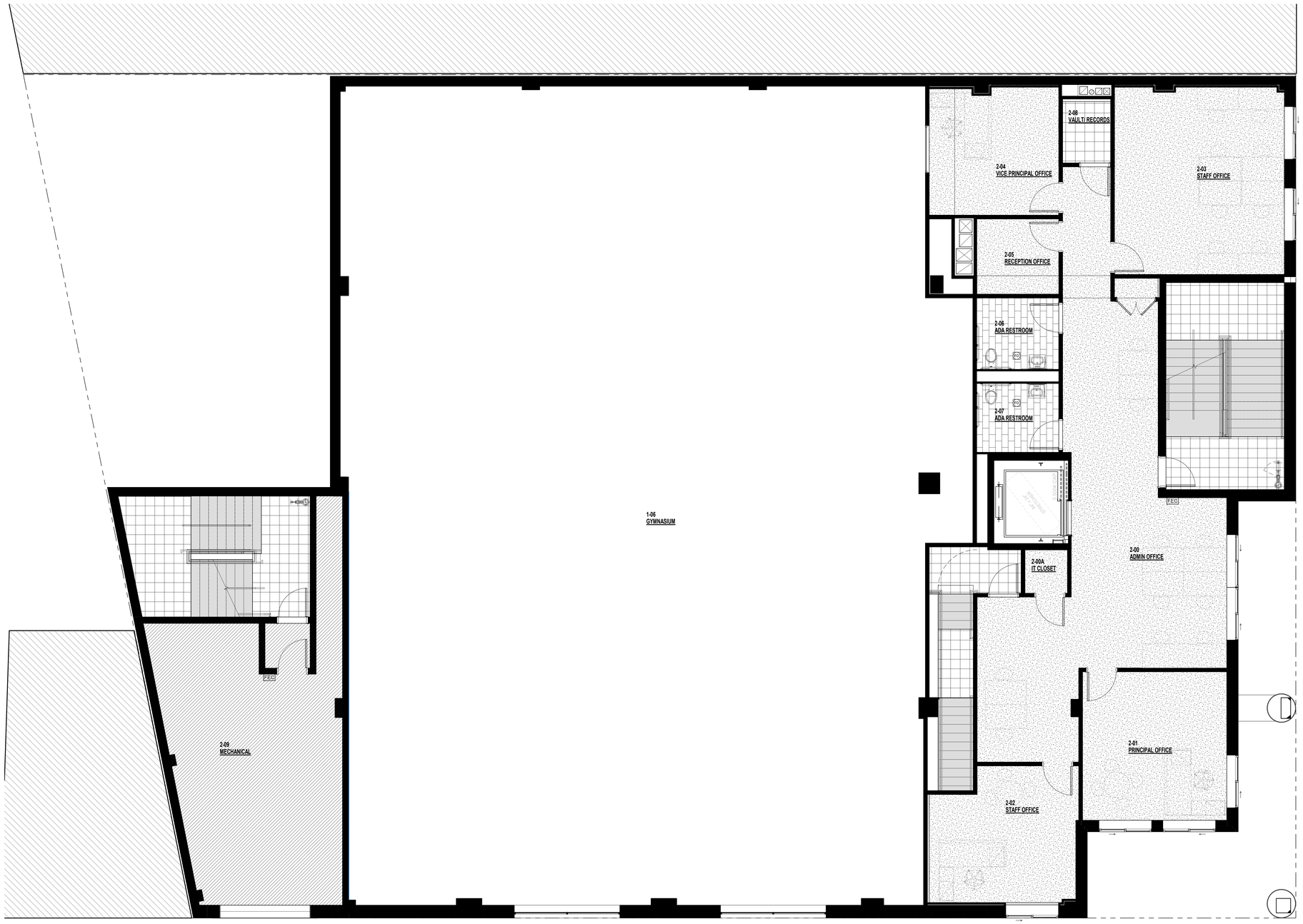
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1ST FLOOR FINISH PLAN

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
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DRAWING NO.:
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1 2ND FLR FINISH PLAN
SCALE: 1/4" = 1'-0"

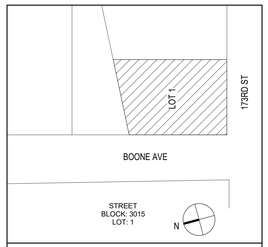
FLOOR FINISH LEGEND

CPT-01 EP-01 WD-01 QT-01 RP-01

CT-01 VCT-01 WM-01 RT-01

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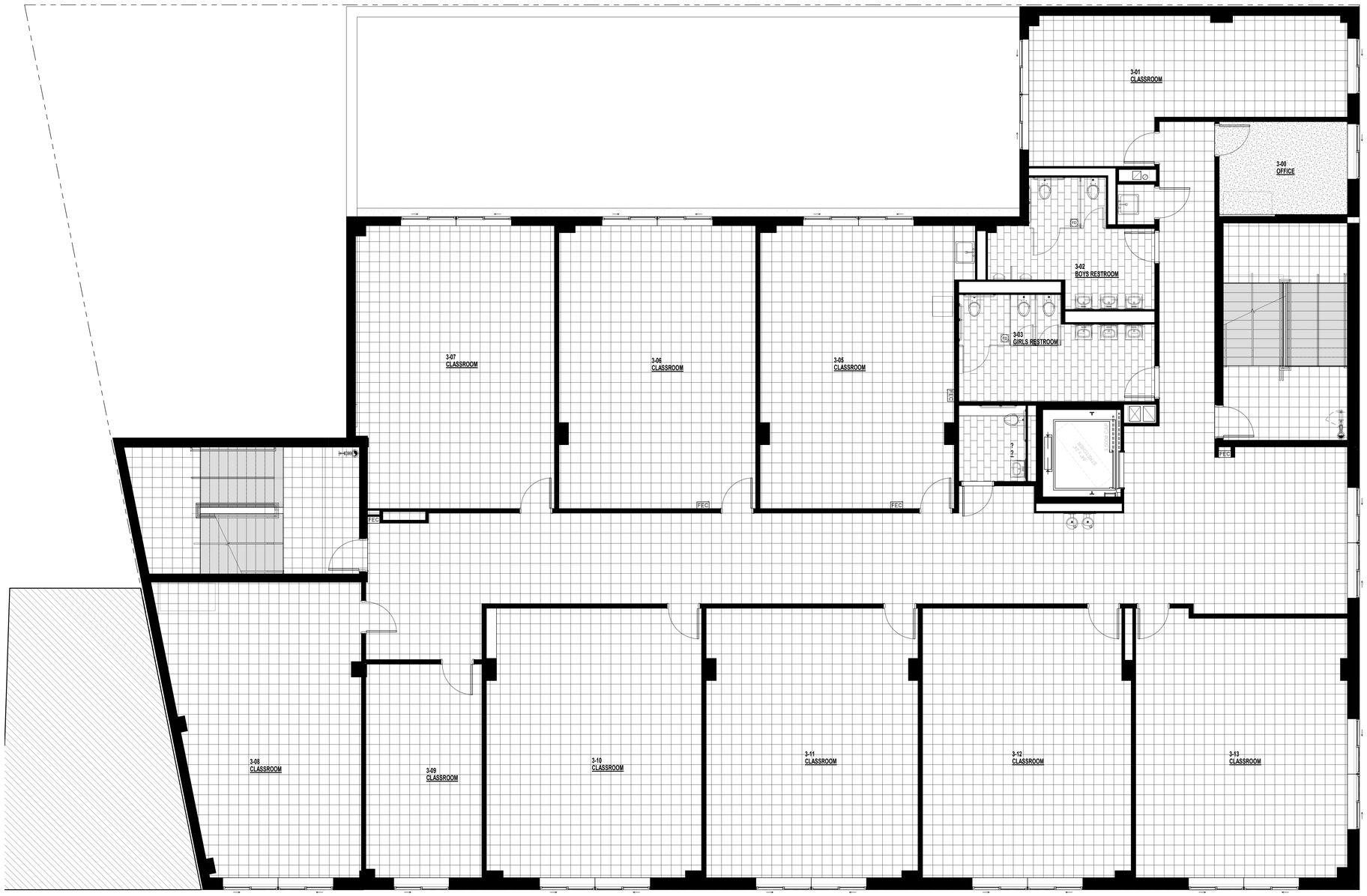
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2ND FLOOR FINISH PLAN

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: 1/4" = 1'-0"
DRAWING NO.:
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FLOOR FINISH LEGEND

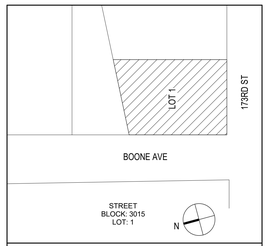
CPT-01 | EP-01 | WD-01 | QT-01 | RP-01

CT-01 | VCT-01 | WM-01 | RT-01

FINISH NOTES:

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1 3RD-5TH FLR FINISH PLAN (TYPICAL FLOOR)
SCALE: 1/4" = 1'-0"



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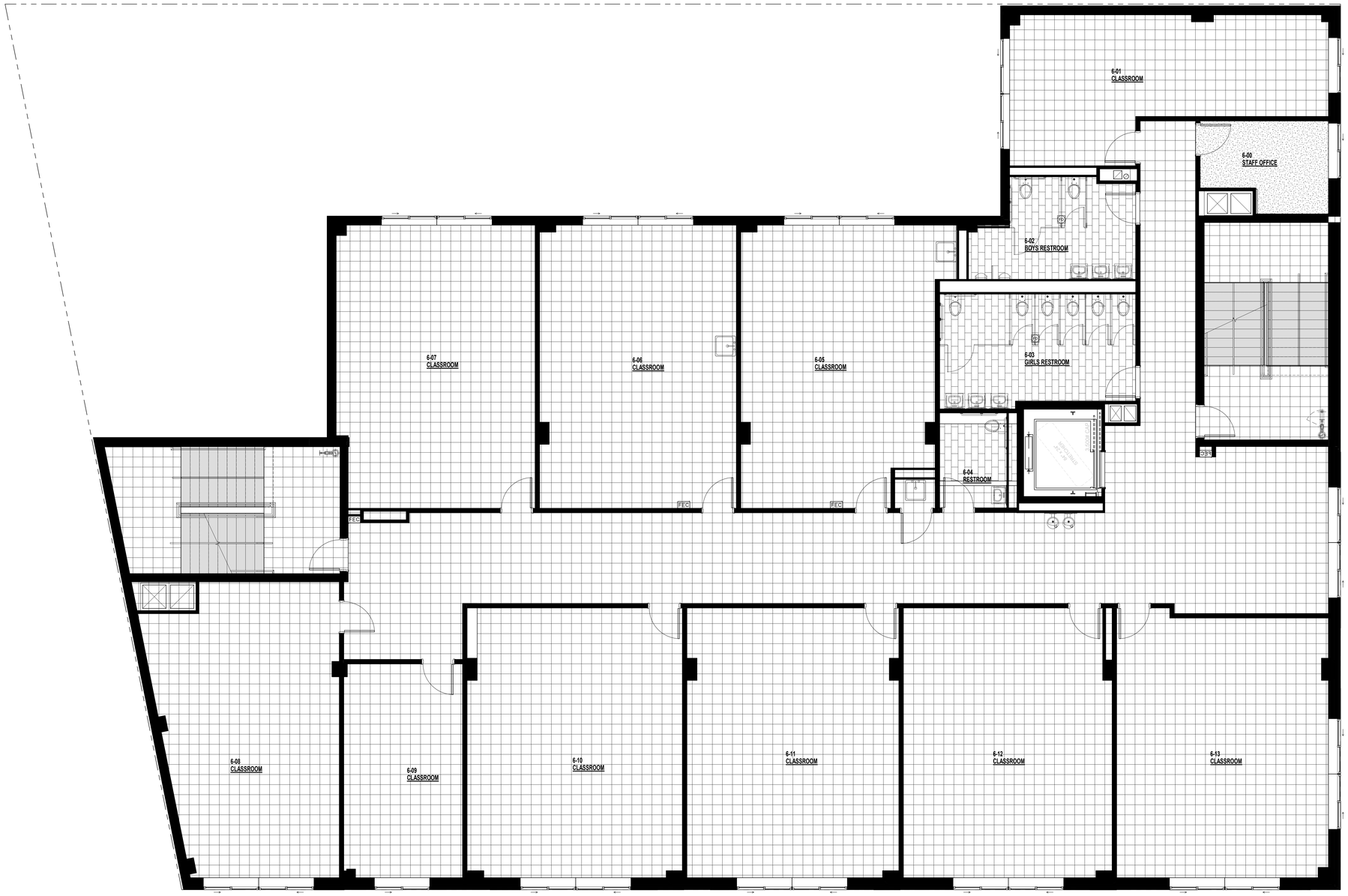
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3RD-5TH FLOOR FINISH PLAN (TYPICAL)

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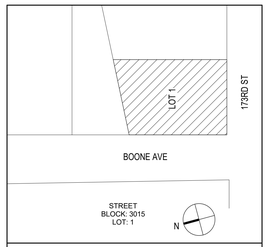
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PROJECT #: 1918
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1 6TH FLR FINISH PLAN
SCALE: 1/4" = 1'-0"



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PROJECT NAME
1660 BOONE AVE
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DRAWING TITLE
6TH FLOOR FINISH PLAN

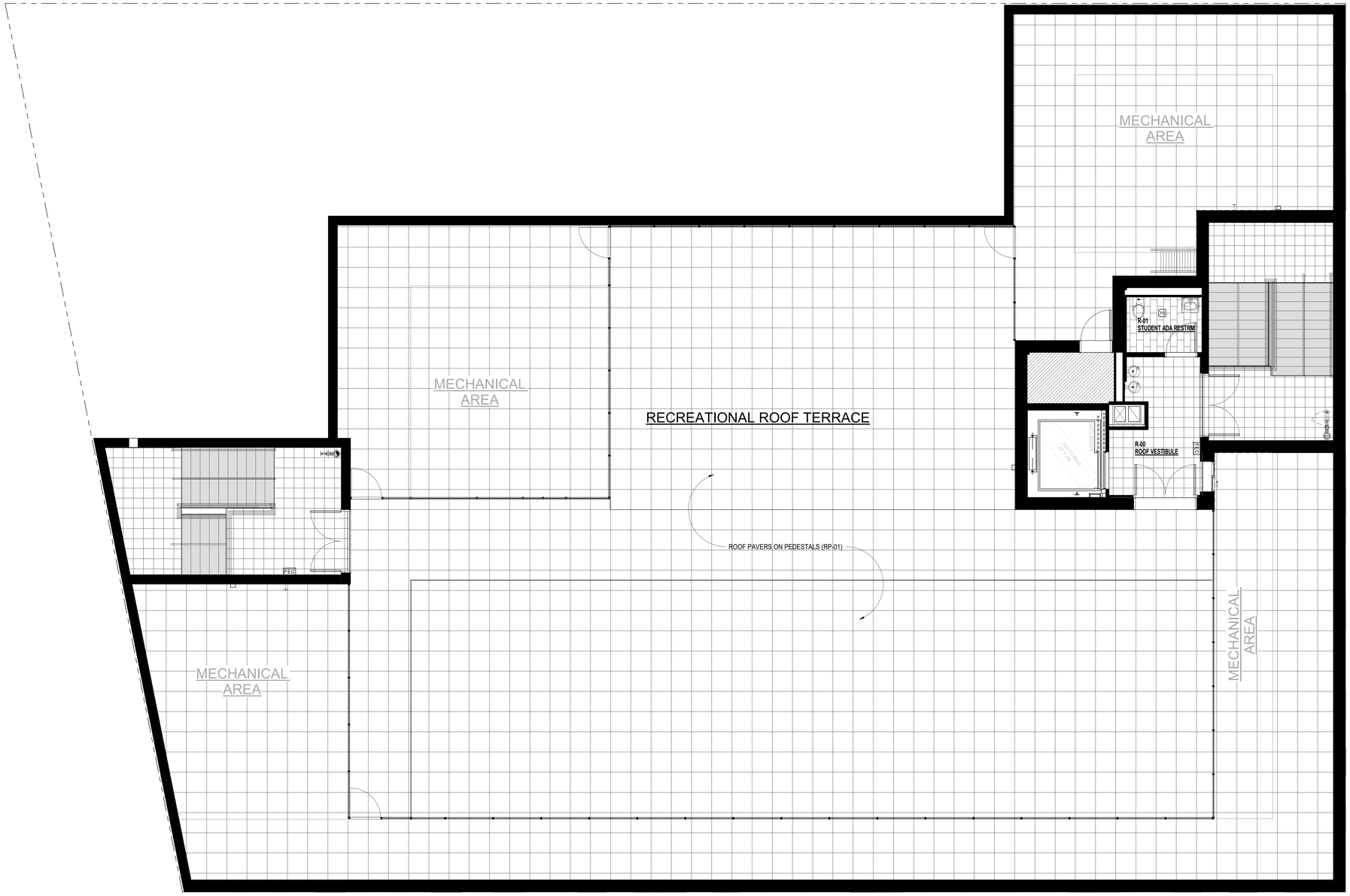
Seal & Signature:

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1 ROOF FLR FINISH PLAN
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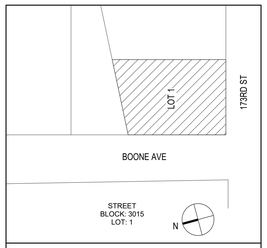
FLOOR FINISH LEGEND

CPT-01 EP-01 WD-01 QT-01 RP-01

CT-01 VCT-01 WM-01 RT-01

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Bronx, New York 10460

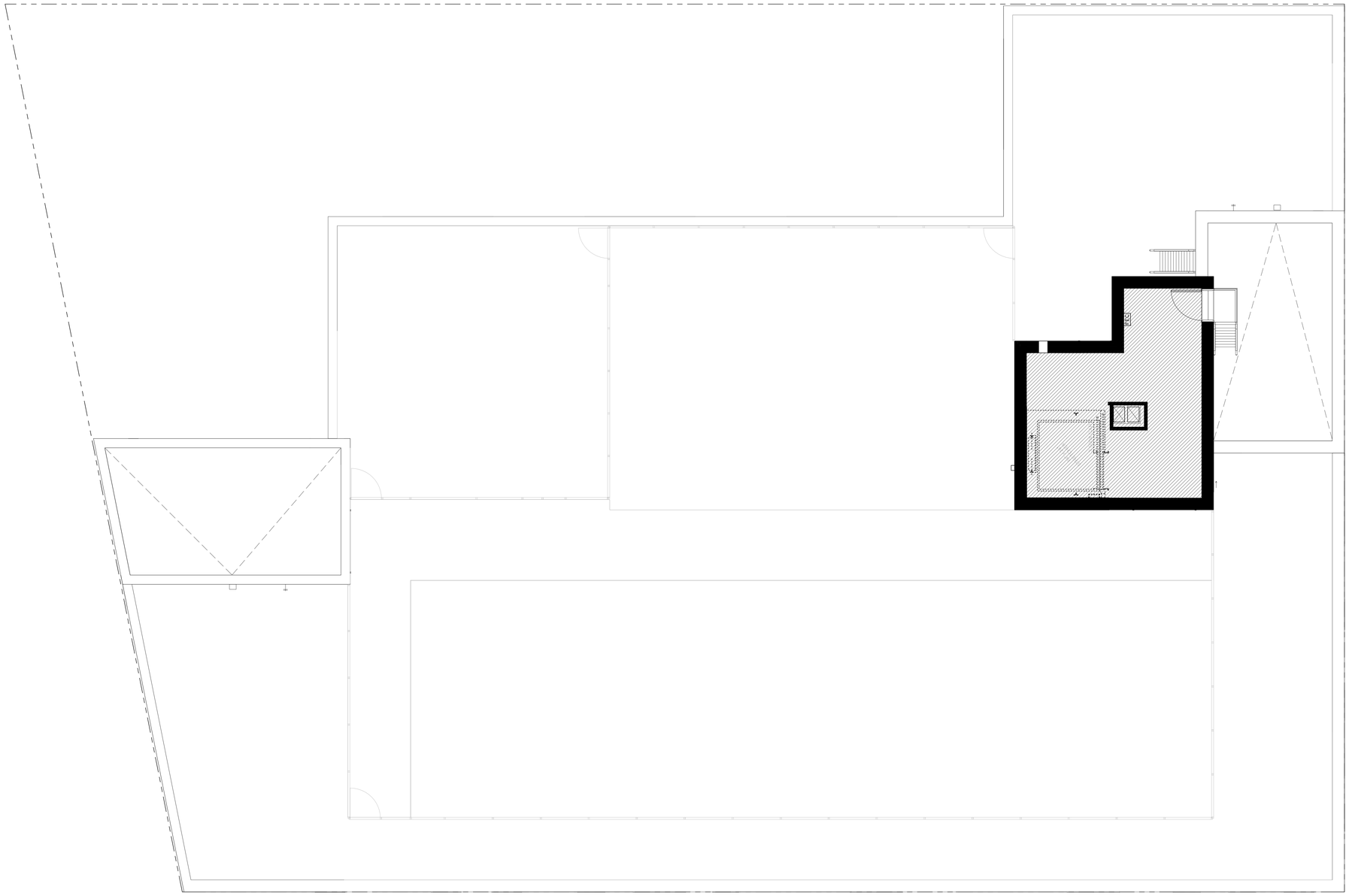
DRAWING TITLE
ROOF FLOOR FINISH PLAN

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: 1/4" = 1'-0"
DRAWING NO.:
A-115.00

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1 EMR/BULKHEAD FLR FINISH PLAN
SCALE: 1/4" = 1'-0"

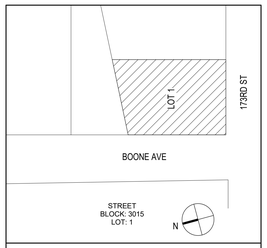
FLOOR FINISH LEGEND

CPT-01 | EP-01 | WD-01 | QT-01 | RP-01

CT-01 | VCT-01 | WM-01 | RT-01

FINISH NOTES:

1. REFER TO FINISH KEY SCHEDULE/A-530 FOR MORE INFORMATION.
2. ALL FLOOR FINISH AREAS NOT DENOTED ARE TO BE EXPOSED CONCRETE SLAB, BROOM FINISHED AND SEALED.



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NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET

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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
EMR FLOOR FINISH PLAN

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
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DRAWING NO.:
A-116.00

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N

1 CELLAR RCP
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RCP GENERAL NOTES

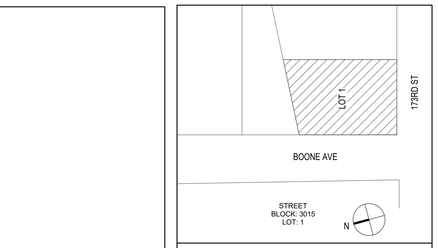
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LIGHT FIXTURE LEGEND

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- L-4 — RECESSED CAN FIXTURE
- L-5 — SUSPENDED GYM LIGHT
- L-6 — EXTERIOR SCONCE
- L-7 — EXTERIOR SURFACE MOUNT

LIGHT FIXTURE SCHEDULE

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L-1	2X2 LAY IN FIXTURE	LITHONIA	2GTL2 LP835	
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L-4	LINEAR FIXTURE (2')	LITHONIA	LBL2 LP8351	
L-5	SUSPENDED GYM LIGHT	LITHONIA	JCBL 12000LM ACCR 30K 90CRI	
L-6	EXTERIOR WALL MOUNT	LITHONIA	WST-LED-P1-27K-VW-MVLOT-DDVTXD	
L-7	EXTERIOR SURFACE MOUNT	LITHONIA	OLCFM 15 WH	
X	EXIT LIGHT	LITHONIA	EDG NY	SEE ARCH. DWGS FOR CONFIGURATION



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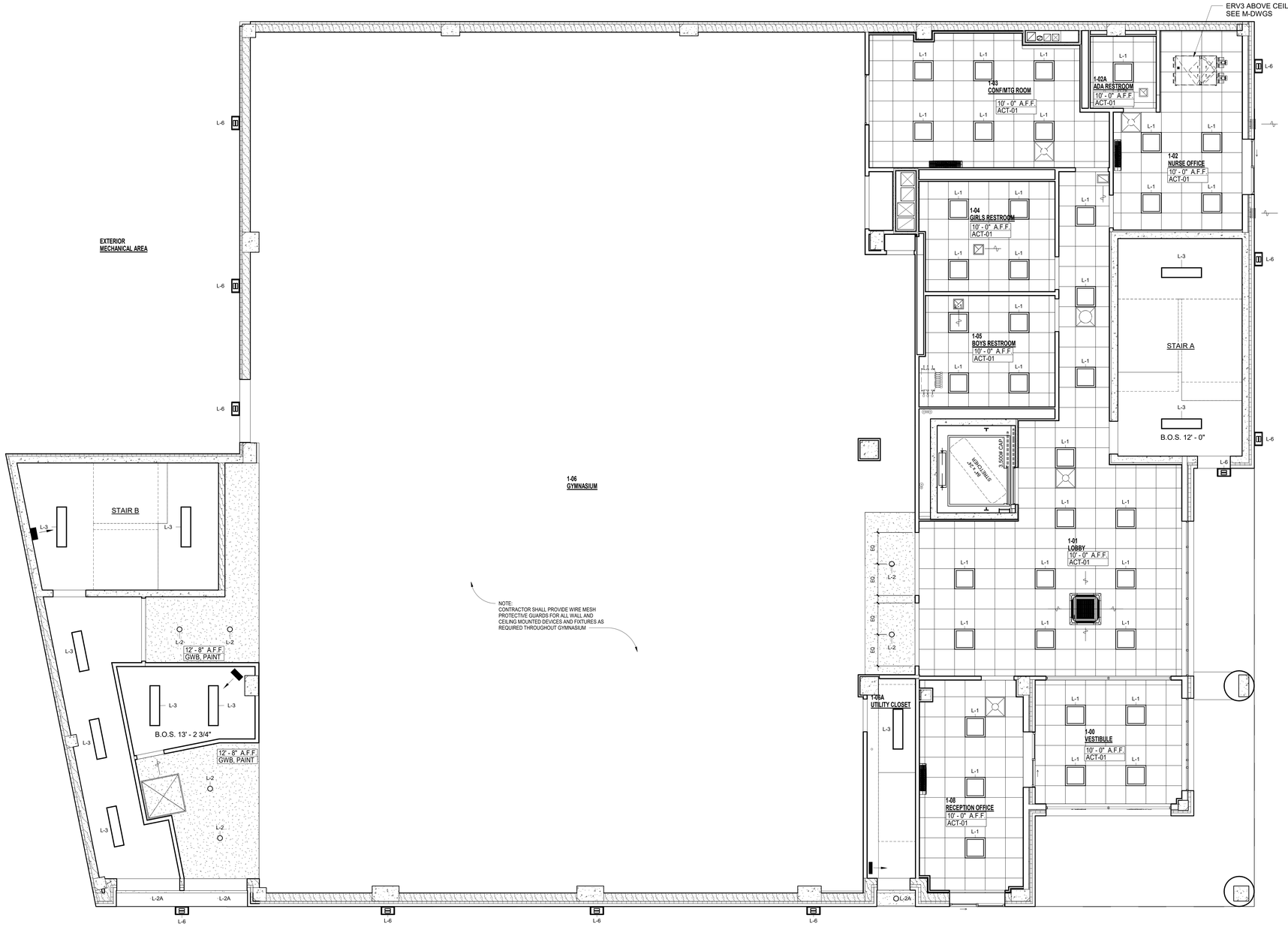
DRAWING TITLE
CELLAR RCP

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: 1/4" = 1'-0"
DRAWING NO.:
A-200.00

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1 1ST FLOOR RCP
SCALE: 1/4" = 1'-0"

RCP GENERAL NOTES

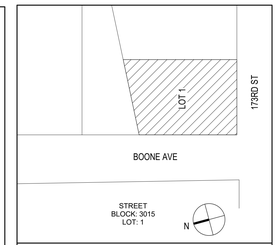
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LIGHT FIXTURE SCHEDULE

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L-5	SUSPENDED GYM LIGHT	LITHONIA	JCBL 12000LM ACCR 30K 90CRI	
L-6	EXTERIOR WALL MOUNT	LITHONIA	WST-LED-P1-27K-VW-MVLOT-DDVTXD	
L-7	EXTERIOR SURFACE MOUNT	LITHONIA	OLCFM 15 WH	
X	EXIT LIGHT	LITHONIA	EDG NY	SEE ARCH. DWGS FOR CONFIGURATION



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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
FIRST FLOOR RCP

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: 1/4" = 1'-0"
DRAWING NO.:
A-201.00

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1 2ND FLOOR (ADMIN) RCP
SCALE: 1/4" = 1'-0"

RCP GENERAL NOTES

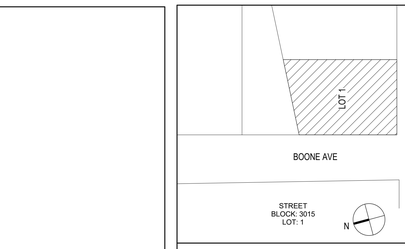
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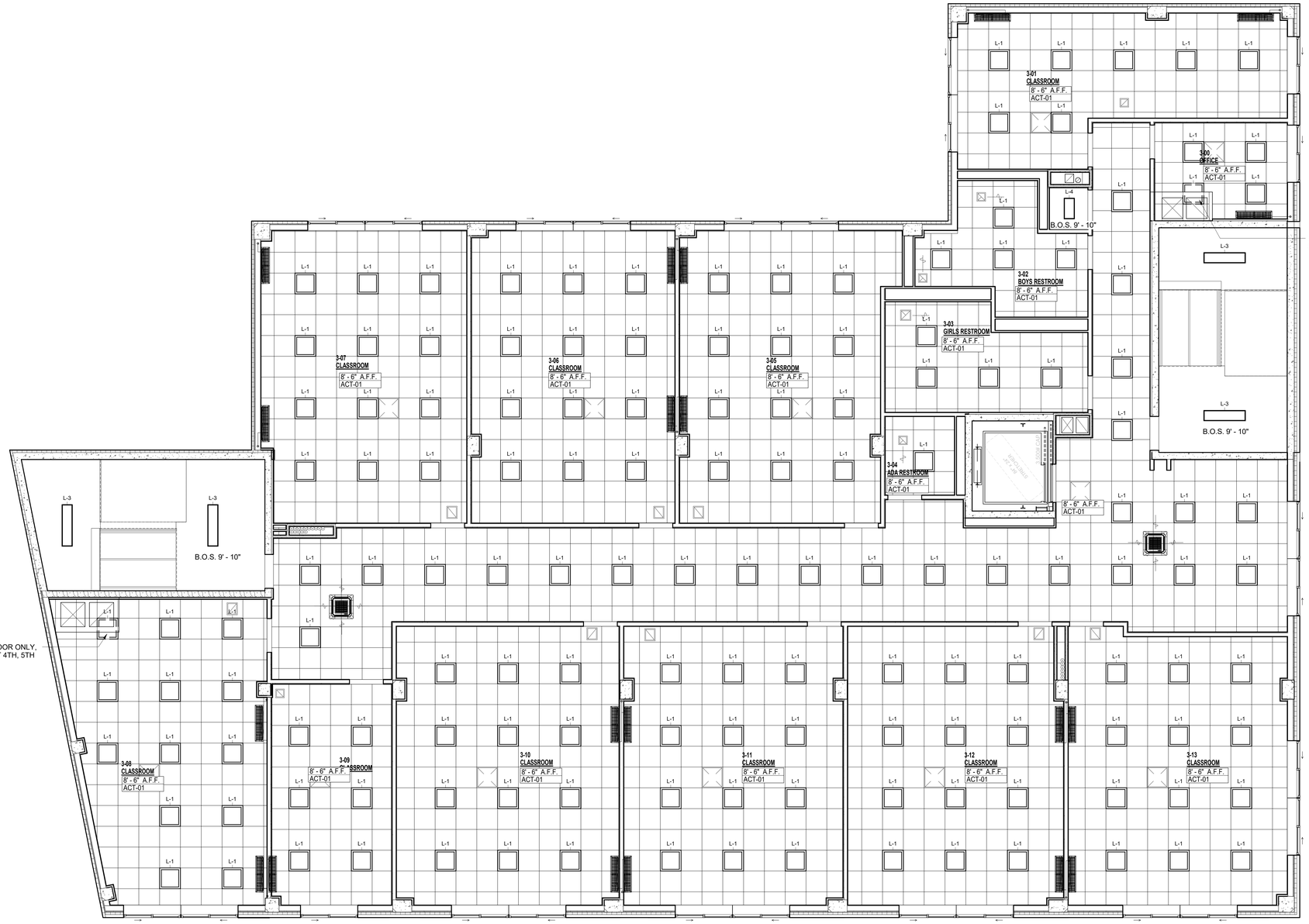
DRAWING TITLE
2ND FLOOR (ADMIN) RCP

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: 1/4" = 1'-0"
DRAWING NO.:
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1 3ND-5TH FLOOR RCP (TYPICAL)
SCALE: 1/4" = 1'-0"

RCP GENERAL NOTES

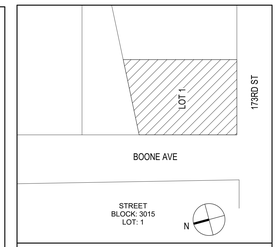
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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

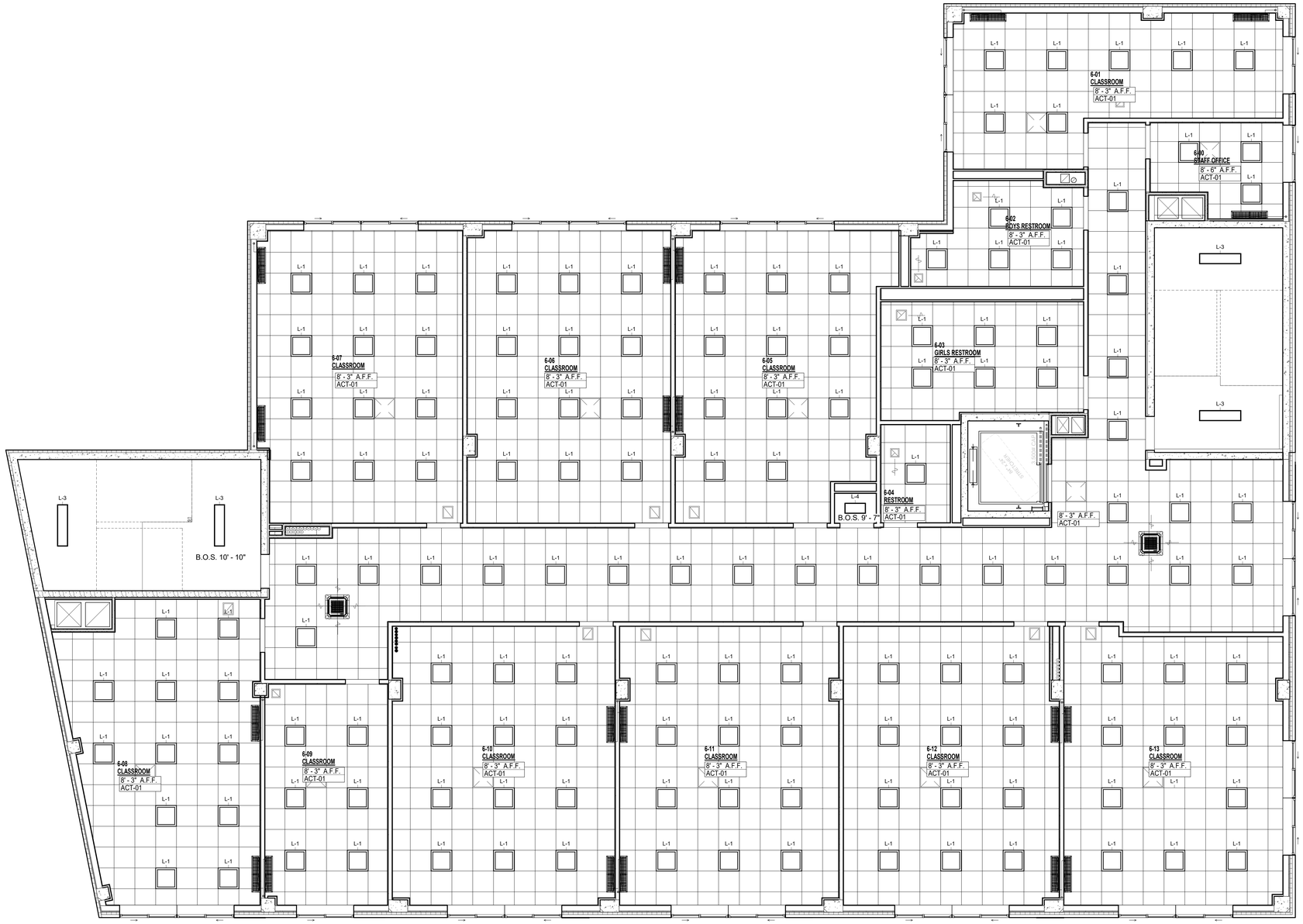
DRAWING TITLE
3RD - 5TH FLOOR RCP (TYPICAL)

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: 1/4" = 1'-0"
DRAWING NO.:
A-203.00

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N

1 6TH FLR RCP
SCALE: 1/4" = 1'-0"

RCP GENERAL NOTES

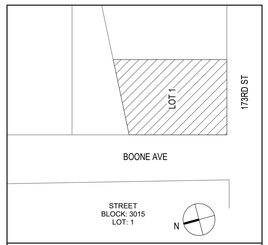
1. REFER TO THE LIGHTING, FIXTURE, AND FINISH SCHEDULES FOR ALL INFORMATION REGARDING SPECIFICATIONS, LOCATIONS, AND OTHER REQUIREMENTS.
2. MEPF AND STRUCTURAL INFORMATION IS SHOWN FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION AND FINAL LOCATION AND INSTALLATION OF ALL MEPF, FIRE ALARM, AND IT/TELECOMMUNICATION SYSTEMS WITH THE STRUCTURAL, ARCHITECTURAL, AND INTERIOR DESIGNS. ALL DISCREPANCIES AND CONFLICTS MUST BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO THE START OF WORK.
3. FINAL LOCATION OF ALL SPRINKLER HEADS SHALL BE CONFIRMED WITH ARCHITECT PRIOR TO INSTALLATION.
4. FINAL LOCATION OF ALL FIRE ALARM DEVICES, SMOKE DETECTORS, CARBON MONOXIDE DETECTORS, THERMOSTATS, AND OTHER DEVICES SHALL BE CONFIRMED WITH ARCHITECT PRIOR TO INSTALLATION.
5. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF ALL EXIT SIGNS. CONFIRM SPECIFIC LOCATIONS WITH ARCHITECT IN FIELD.
6. ALL ACCESS PANEL LOCATIONS SHALL BE CONFIRMED WITH ARCHITECT. CONTRACTOR SHALL IDENTIFY AND BRING TO ATTENTION ANY REQUIRED LOCATIONS FOR MEPF, IT/TELECOM SYSTEMS. MEPF ENGINEER MUST DECLARE ALL LOCATIONS REQUIRED FOR ACCESS PRIOR TO START OF WORK.
7. ALL CEILING HEIGHTS NOTED ARE FROM TOP OF FINISH FLOOR (OR ABOVE FINISH FLOOR, A.F.F.).
8. ALL BOTTOM OF SLAB ELEVATIONS ARE FROM TOP OF SLAB OF CORRESPONDING FLOOR BELOW AND DO NOT ACCOUNT FOR FINISH FLOORING. CONTRACTOR MUST VERIFY AND CONFIRM SPACE LIMITATIONS ABOVE THE FINISH CEILING AND ACCOUNT FOR CEILING ASSEMBLY THICKNESS.
9. MECHANICAL CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL ACCESS PANELS WITH REQUIRED EQUIPMENT, DAMPERS, AND DEVICES THAT REQUIRE SUCH ACCESS. WHEN PRACTICABLE, ALL EQUIPMENT, DAMPERS, AND DEVICES SHALL BE GROUPED TOGETHER TO SHARE ACCESS PANELS. DUCT LAYOUTS ON THIS PLAN ARE SUGGESTIVE AND SHOWN AS A GUIDE FOR THE CEILING LAYOUT. CONTRACTOR SHALL SUBMIT ALL DUCT LAYOUT DRAWINGS TO ARCHITECT AND OWNER FOR REVIEW PRIOR TO WORK. CONTRACTOR MUST SHOW ALL EQUIPMENT, DAMPERS, AND DEVICES ALONG WITH THEIR REQUIRED ACCESS PANELS FOR REVIEW AND APPROVAL.
10. UNDERSIDE OF STRUCTURAL SLAB WILL VARY, SEE STRUCTURAL ENGINEER'S DRAWINGS.
11. REFER TO POWER AND DATA PLANS FOR THE LOCATIONS OF ALL RECEPTACLES, OUTLETS, DATA PORTS. ANY DEVICES SHOWN ON THIS PLAN ARE DUPLICATES AND SHOWN FOR REFERENCE ONLY.
12. SEE ELECTRICAL ENGINEER FOR ALL-ONE LINE DIAGRAMS RELATED TO LIGHTING CONTROL SYSTEMS.

LIGHT FIXTURE LEGEND

- L-1 — 2X2 RECESSED FIXTURE
- L-2, L-02A — RECESSED CAN FIXTURE
- L-3 — SUSPENDED LINEAR FIXTURE
- L-4 — RECESSED CAN FIXTURE
- L-5 — SUSPENDED GYM LIGHT
- L-6 — EXTERIOR SCONCE
- L-7 — EXTERIOR SURFACE MOUNT

LIGHT FIXTURE SCHEDULE

MARK	TYPE	MANUF.	MODEL	REMARKS
L-1	2X2 LAY IN FIXTURE	LITHONIA	2GTL2 LP835	
L-2	RECESSED CAN FIXTURE	LITHONIA	6BPMW 30K 93CRI	
L-2A	RECESSED FIXTURE	LITHONIA	WF6 LED 27K30K35K 90CRI MW M6	
L-3	LINEAR FIXTURE (4')	LITHONIA	LBL4 LP835	
L-4	LINEAR FIXTURE (2')	LITHONIA	LBL2 LP8351	
L-5	SUSPENDED GYM LIGHT	LITHONIA	JCBL 12000LM ACCR 30K 90CRI	
L-6	EXTERIOR WALL MOUNT	LITHONIA	WST-LED-P1-27K-VW-MVLOT-DDVTXD	
L-7	EXTERIOR SURFACE MOUNT	LITHONIA	OLCFM 15 WH	
X	EXIT LIGHT	LITHONIA	EDG NY	SEE ARCH. DWGS FOR CONFIGURATION



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NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET
	08/02/19	DOB FILING / 50% CD

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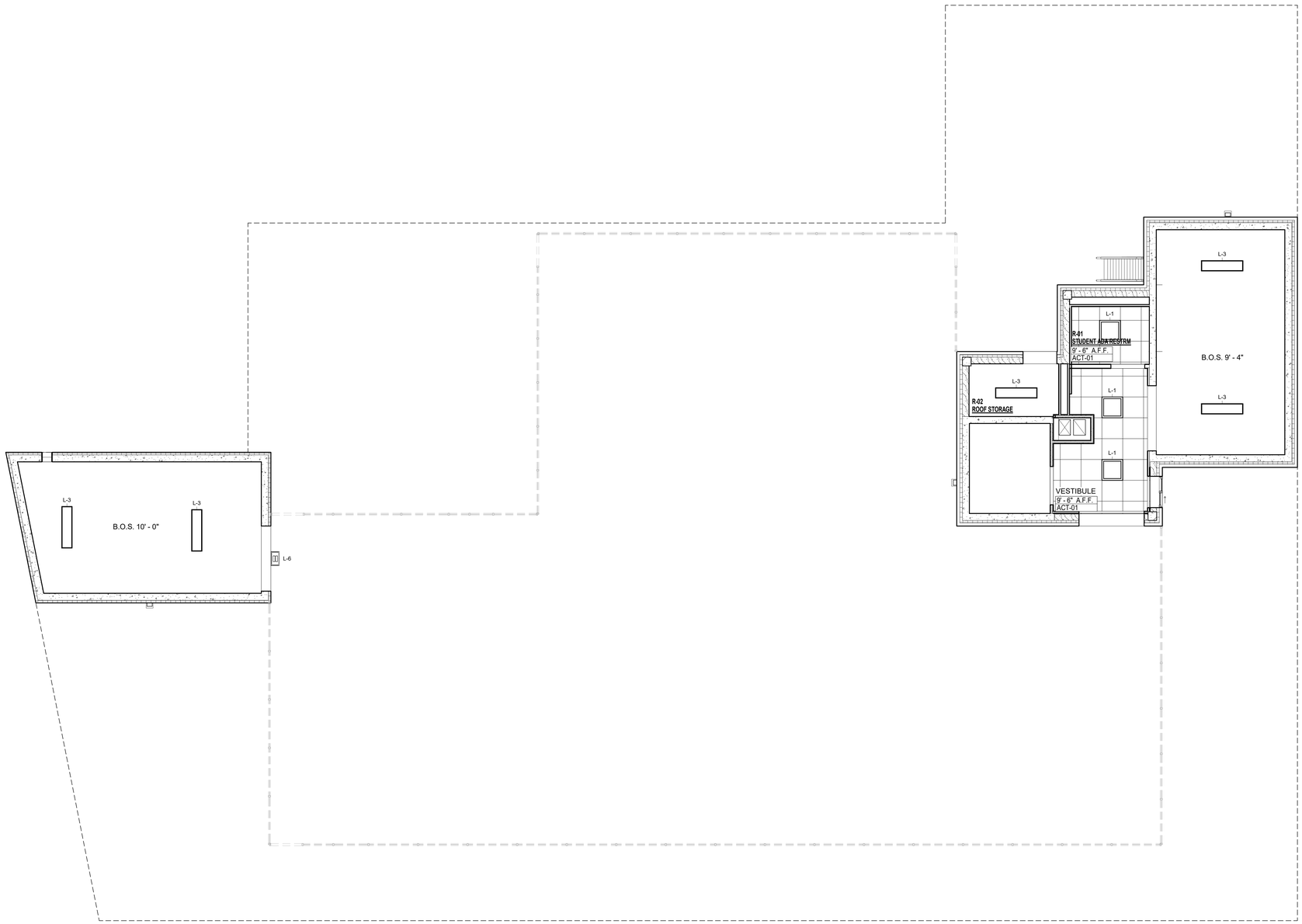
DRAWING TITLE
6TH FLOOR RCP

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: 1/4" = 1'-0"
DRAWING NO.:
A-205.00

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N

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

RCP GENERAL NOTES

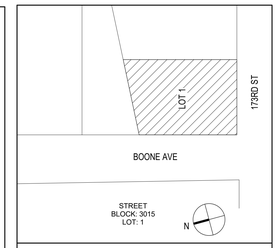
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- L-6 — EXTERIOR SCONCE
- L-7 — EXTERIOR SURFACE MOUNT

LIGHT FIXTURE SCHEDULE

MARK	TYPE	MANUF.	MODEL	REMARKS
L-1	2X2 LAY IN FIXTURE	LITHONIA	2GTL2 LP835	
L-2	RECESSED CAN FIXTURE	LITHONIA	6BPMW 30K 93CRI	
L-2A	RECESSED FIXTURE	LITHONIA	WF6 LED 27K30K35K 90CRI MW M6	
L-3	LINEAR FIXTURE (4')	LITHONIA	LBL4 LP835	
L-4	LINEAR FIXTURE (2')	LITHONIA	LBL2 LP8351	
L-5	SUSPENDED GYM LIGHT	LITHONIA	JCBL 12000LM ACCR 30K 90CRI	
L-6	EXTERIOR WALL MOUNT	LITHONIA	WST-LED-P1-27K-VW-MVLOT-DDVTXD	
L-7	EXTERIOR SURFACE MOUNT	LITHONIA	OLCFM 15 WH	
X	EXIT LIGHT	LITHONIA	EDG NY	SEE ARCH. DWGS FOR CONFIGURATION



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	09/23/19	85% PROGRESS SET
	08/02/19	DOB FILING / 50% CD

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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

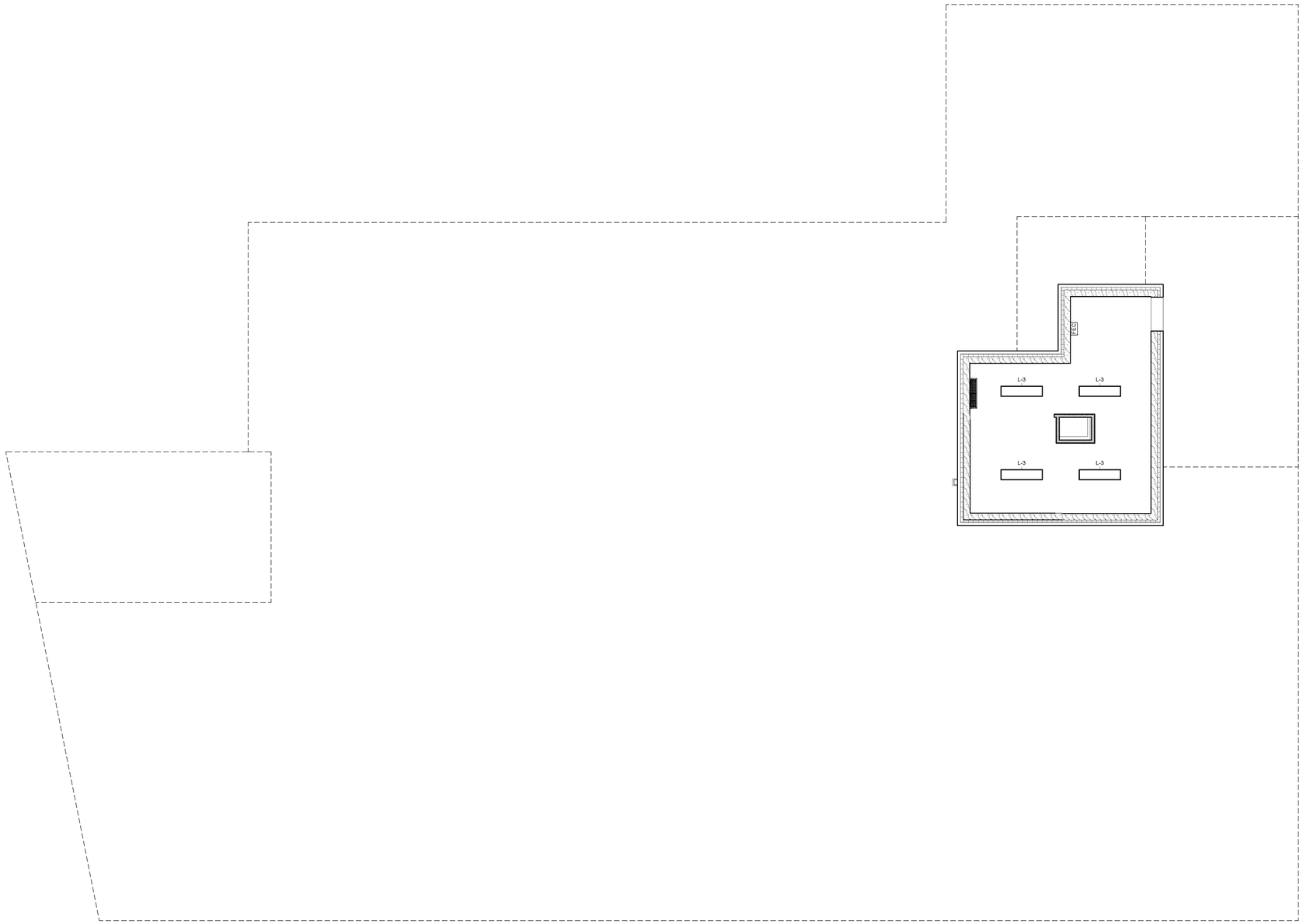
DRAWING TITLE
ROOF LEVEL RCP

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: 1/4" = 1'-0"
DRAWING NO.:
A-206.00

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N

1 ELEVATOR OVERRUN BULKHEAD RCP
SCALE: 1/4" = 1'-0"

RCP GENERAL NOTES

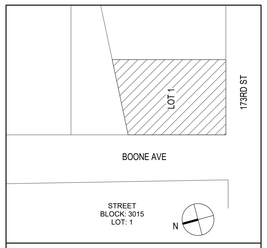
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LIGHT FIXTURE LEGEND

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LIGHT FIXTURE SCHEDULE

MARK	TYPE	MANUF.	MODEL	REMARKS
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L-7	EXTERIOR SURFACE MOUNT	LITHONIA	OLCFM 15 WH	
X	EXIT LIGHT	LITHONIA	EDG NY	SEE ARCH. DWGS FOR CONFIGURATION



-NOT FOR CONSTRUCTION-

NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET
	08/02/19	DOB FILING / 50% CD

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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

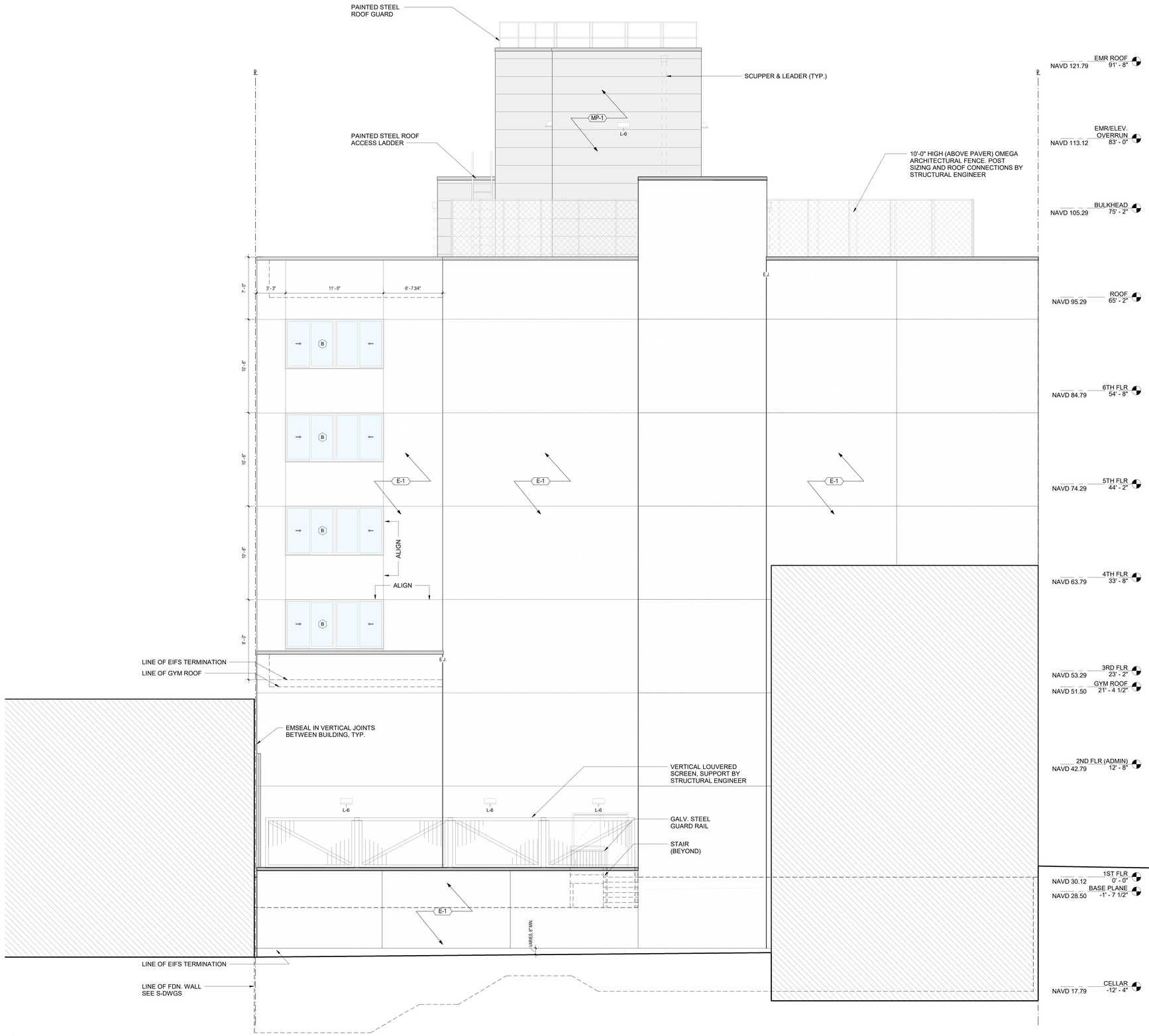
DRAWING TITLE
EMR BULKHEAD RCP

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: 1/4" = 1'-0"
DRAWING NO.:
A-207.00

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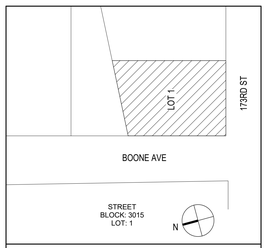
1 NORTH ELEVATION
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. SIGNAGE BY OTHERS/TENANT. TO BE FILED UNDER SEPARATE APPLICATION.
2. FINISH COLORS TO BE DETERMINED. TONES SHOWN FOR SCHEMATIC PURPOSES ONLY.
3. ALL ADJACENT STRUCTURES SHALL BE VERIFIED IN FIELD BY CONTRACTOR. CONTRACTOR RESPONSIBLE FOR RESEAL AND FLASHING AT VERTICAL AND HORIZONTAL JOINTS RESPECTIVELY.

ELEVATION LEGEND

- METAL PANEL (MP-1) — MP-1 — 1/2" JOINT, TYP. U.N.O
- EIFS — E-1 — V GROOVE, TYP. U.N.O.
- METAL PANEL — MP-2 — ACCENT PANEL — MP-3 / MP-4
- WATER TABLE ARCHITECTURAL CMU — WT-1
- APPROX. OUTLINE OF EXISTING NEIGHBORING BUILDING AT LOT LINE (V.I.F)



-NOT FOR CONSTRUCTION-

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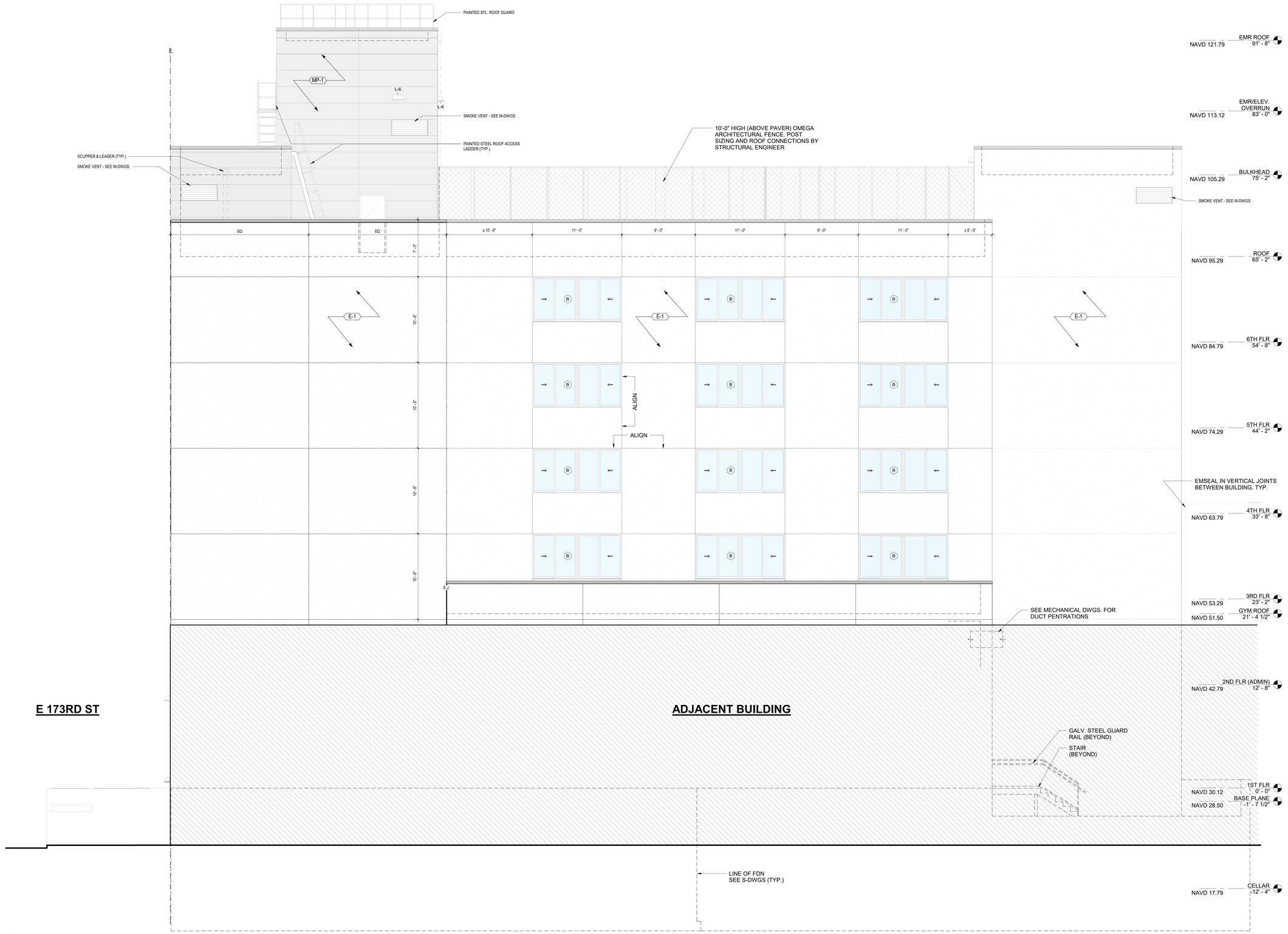
DRAWING TITLE
NORTH ELEVATION

Seal & Signature:

DATE:	10/08/19
PROJECT #:	1918
DWG SCALE:	1/4" = 1'-0"
DRAWING NO.:	A-250.00

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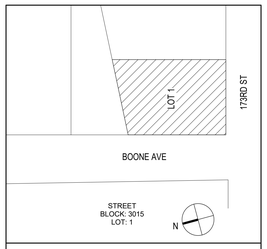
1 EAST ELEVATION
SCALE: 1/4" = 1'-0"

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- METAL PANEL (MP-2) — ACCENT PANEL (MP-3) (MP-4)
- WATER TABLE ARCHITECTURAL CMU (WT-1)
- APPROX. OUTLINE OF EXISTING NEIGHBORING BUILDING AT LOT LINE (V.I.F)



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1660 BOONE AVE
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DRAWING TITLE
EAST ELEVATION

Seal & Signature:

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DRAWING NO.:	A-251.00

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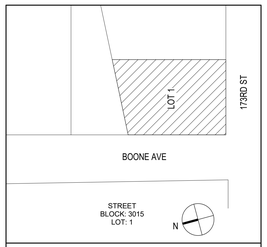
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- EIFS (E-1) — V GROOVE, TYP. U.N.O.
- METAL PANEL (MP-2) — ACCENT PANEL (MP-3) (MP-4)
- WATER TABLE ARCHITECTURAL CMU (WT-1)
- APPROX. OUTLINE OF EXISTING NEIGHBORING BUILDING AT LOT LINE (V.I.F)



-NOT FOR CONSTRUCTION-

NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET
	08/02/19	DOB FILING / 50% CD

ARCHITECT
Stephen B. Jacobs Group, P.C.
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381 Park Ave South
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BAYSIDE, NY 11361
(718)-224-9091

DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
SOUTH ELEVATION

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: 1/4" = 1'-0"
DRAWING NO.: A-252.00

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10/8/2019 8:53:14 PM



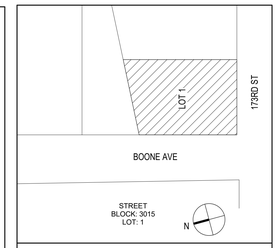
1 WEST ELEVATION
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. SIGNAGE BY OTHERS/TENANT. TO BE FILED UNDER SEPARATE APPLICATION.
2. FINISH COLORS TO BE DETERMINED. TONES SHOWN FOR SCHEMATIC PURPOSES ONLY.
3. ALL ADJACENT STRUCTURES SHALL BE VERIFIED IN FIELD BY CONTRACTOR. CONTRACTOR RESPONSIBLE FOR RESEAL AND FLASHING AT VERTICAL AND HORIZONTAL JOINTS RESPECTIVELY.

ELEVATION LEGEND

- METAL PANEL (MP-1) — 1/2" JOINT, TYP. U.N.O
- EIFS (E-1) — V GROOVE, TYP. U.N.O.
- METAL PANEL (MP-2) — ACCENT PANEL (MP-3) (MP-4)
- WATER TABLE ARCHITECTURAL CMU (WT-1)
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DOB NB#210180089

PROJECT NAME
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Bronx, New York 10460

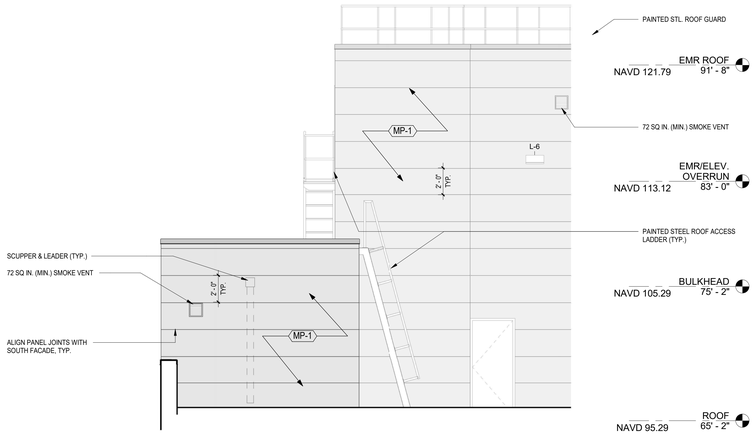
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WEST ELEVATION

Seal & Signature:

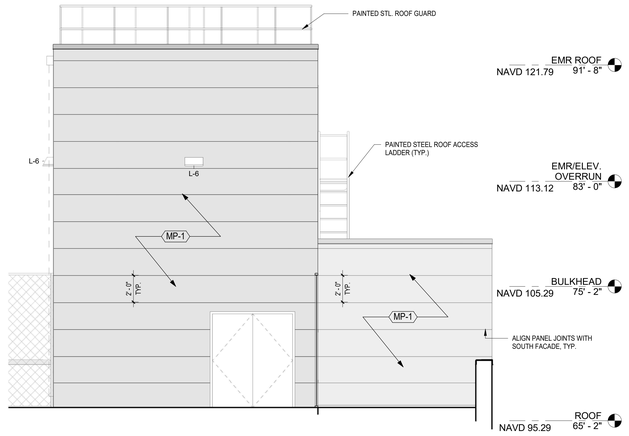
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PROJECT #:	1918
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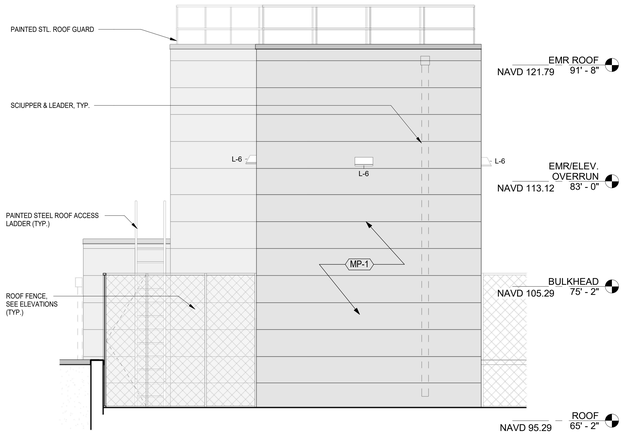
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1 SOUTH B.H. - EAST ELEVATION
SCALE: 1/4" = 1'-0"



2 SOUTH B.H. - NORTH ELEVATION
SCALE: 1/4" = 1'-0"



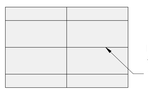
3 SOUTH B.H. - WEST ELEVATION
SCALE: 1/4" = 1'-0"

4 SOUTH B.H. - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

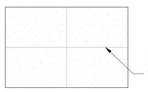
5 NORTH B.H. - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

6 NORTH B.H. - WEST ELEVATION
SCALE: 1/4" = 1'-0"

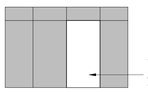
ELEVATION LEGEND



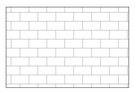
METAL PANEL (MP-1)
MP-1
1/2" JOINT, TYP. U.N.O



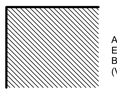
EIFS
E-1
V GROOVE, TYP. U.N.O.



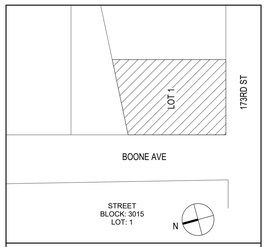
METAL PANEL
MP-2
ACCENT PANEL
MP-3 MP-4



WATER TABLE
ARCHITECTURAL CMU
WT-1



APPROX. OUTLINE OF EXISTING NEIGHBORING BUILDING AT LOT LINE (V.I.F)



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M.E.P. Engineer
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BAYSIDE, NY 11361
(718)-224-9091

DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

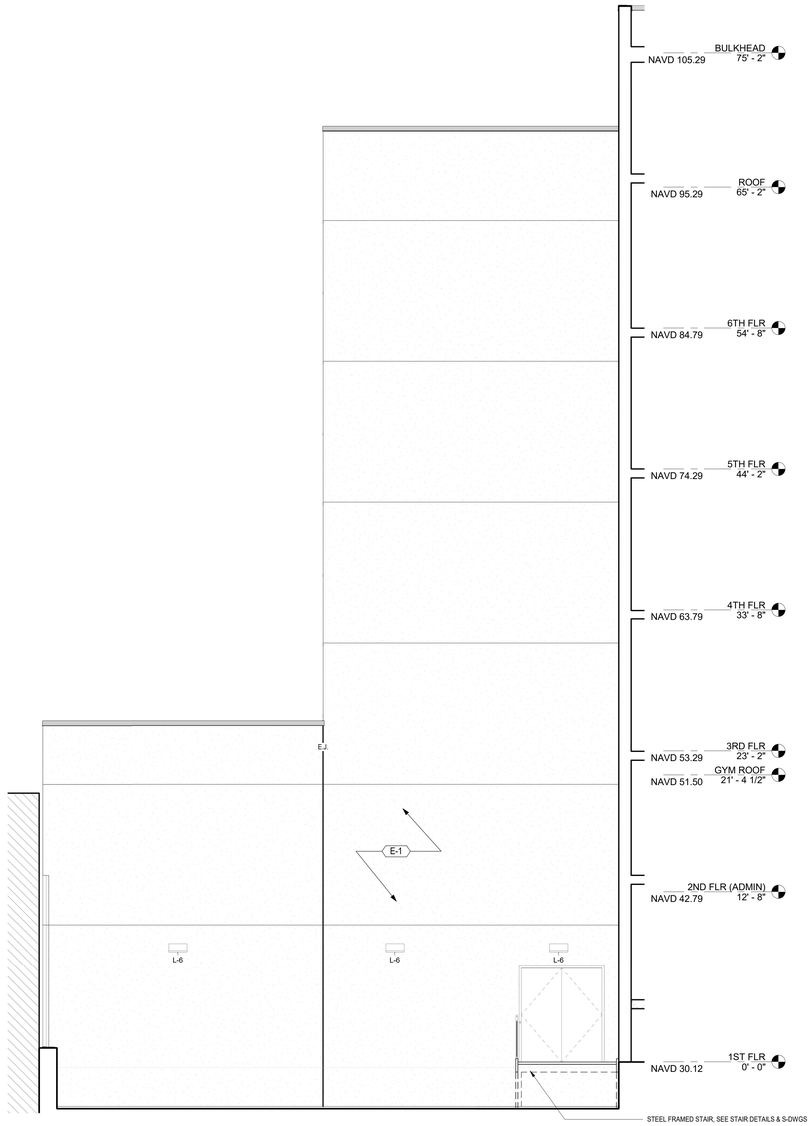
DRAWING TITLE
BULKHEAD ELEVATIONS

Seal & Signature:

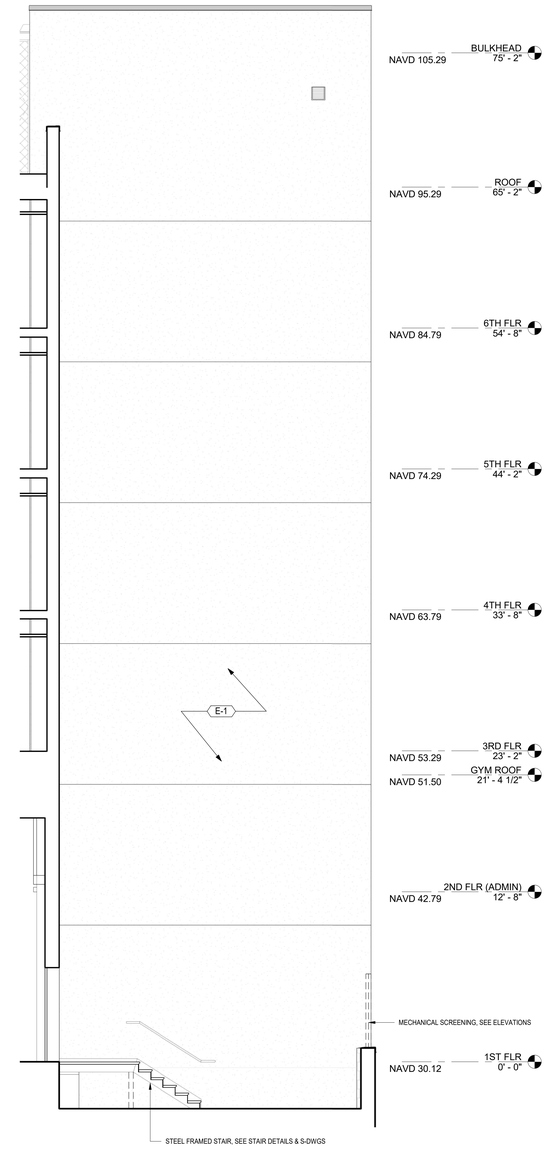
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PROJECT #: 1918
DWG SCALE: 1/4" = 1'-0"
DRAWING NO.:
A-254.00

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1 MECHANICAL AREA
NORTH WALL ELEVATION
SCALE: 1/4" = 1'-0"



2 MECHANICAL AREA
EAST WALL ELEVATION
SCALE: 1/4" = 1'-0"

ELEVATION LEGEND

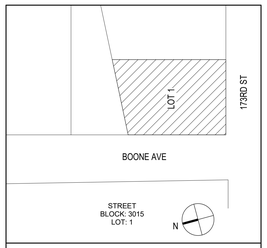
METAL PANEL (MP-1) (MP-1)
1/2" JOINT, TYP. U.N.O

EIFS (E-1)
V GROOVE, TYP. U.N.O.

METAL PANEL (MP-2)
ACCENT PANEL (MP-3) (MP-4)

WATER TABLE
ARCHITECTURAL CMU (WT-1)

APPROX. OUTLINE OF EXISTING NEIGHBORING BUILDING AT LOT LINE (V.I.F)



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(718)-224-9091

DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
MECHANICAL AREA ELEVATIONS

Seal & Signature:

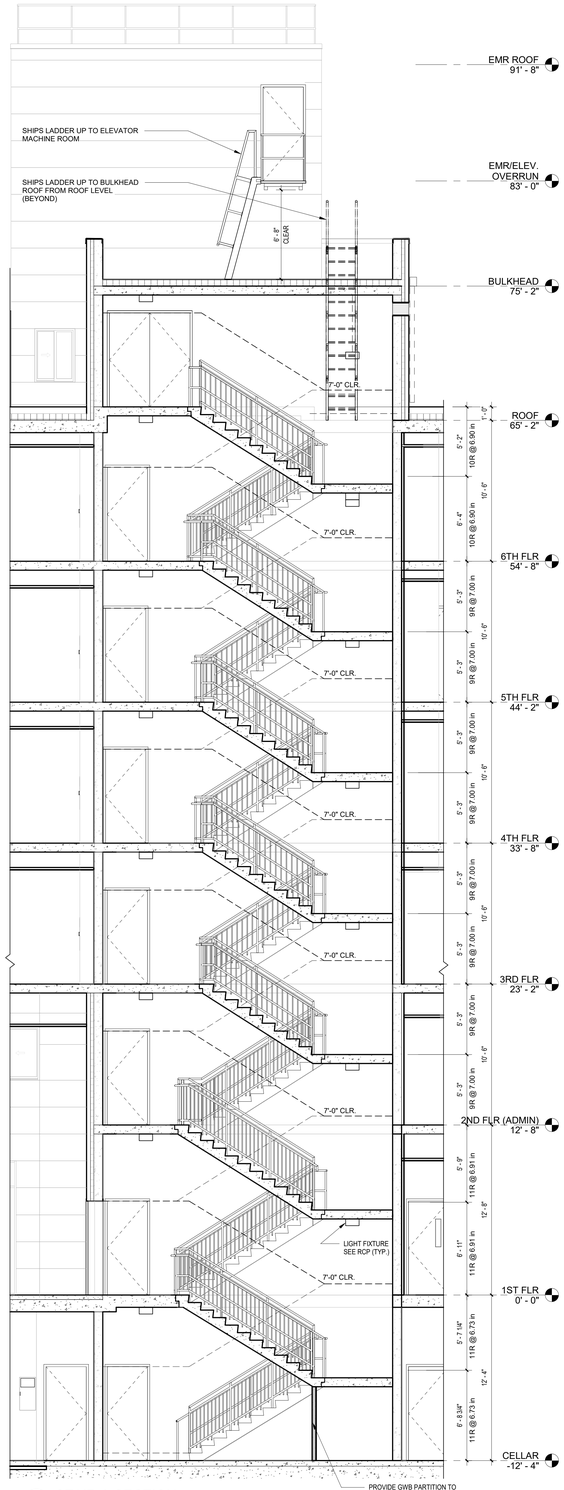
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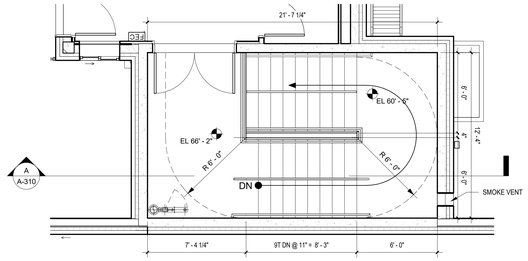
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STAIR NOTES

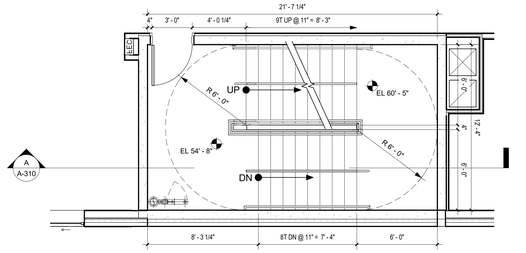
1. STAIR WIDTHS GREATER THAN 60" SHALL RECEIVE AN INTERMEDIATE HANDRAIL CENTERED ON THE STAIR.
2. STAIRS SHALL RECEIVE VCT FLOOR FINISH W/ VINYL BASE AT ALL LANDINGS AND RESILIENT VINYLS TREADS AT ALL STAIR RUNS.



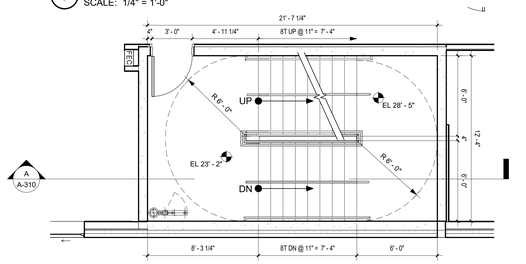
A STAIR A SECTION
SCALE: 1/4" = 1'-0"



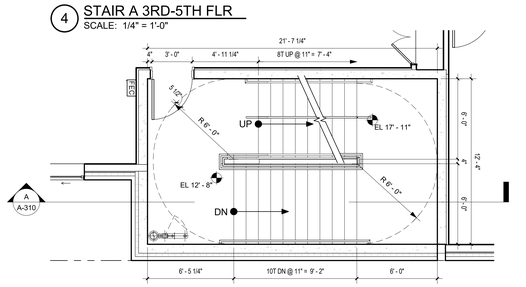
6 STAIR A ROOF
SCALE: 1/4" = 1'-0"



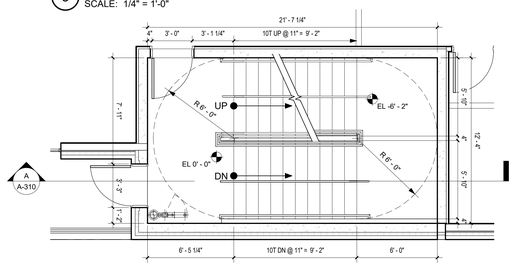
5 STAIR A 6TH FLR
SCALE: 1/4" = 1'-0"



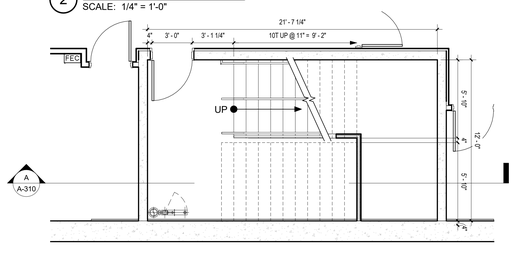
4 STAIR A 3RD-5TH FLR
SCALE: 1/4" = 1'-0"



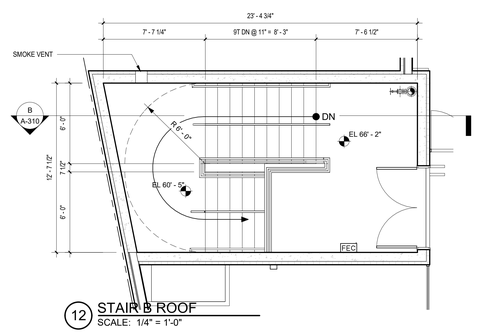
3 STAIR A 2ND FLR
SCALE: 1/4" = 1'-0"



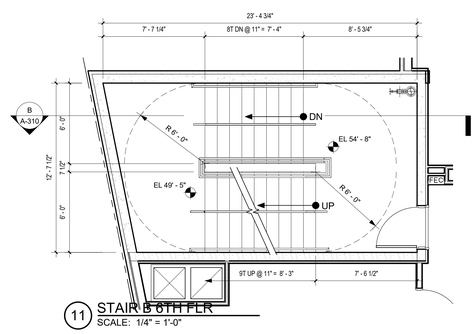
2 STAIR A 1ST FLR
SCALE: 1/4" = 1'-0"



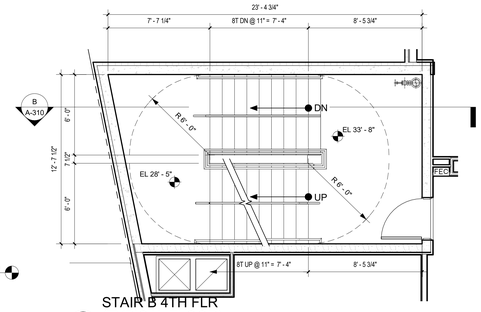
1 STAIR A CELLAR
SCALE: 1/4" = 1'-0"



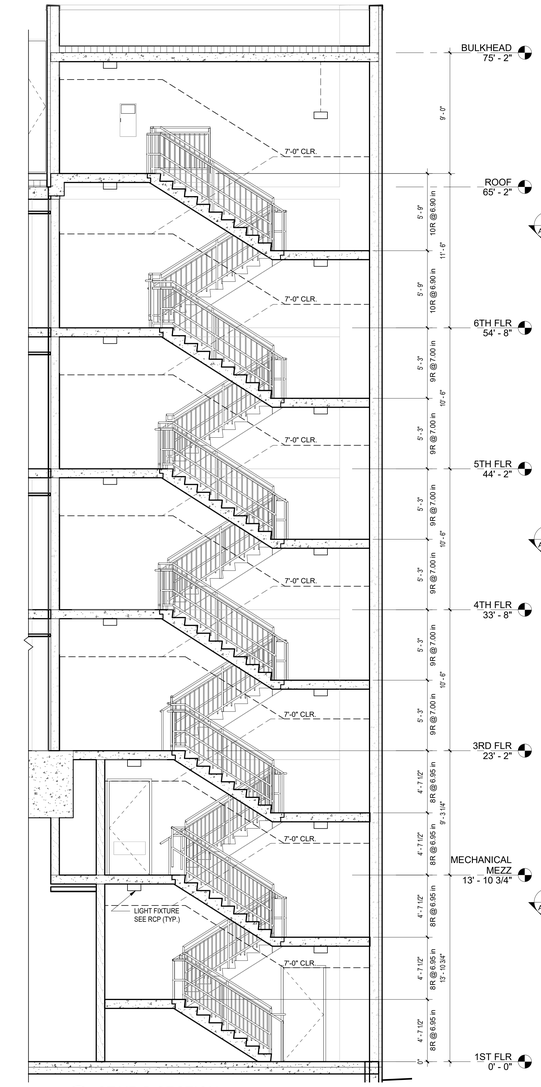
12 STAIR B ROOF
SCALE: 1/4" = 1'-0"



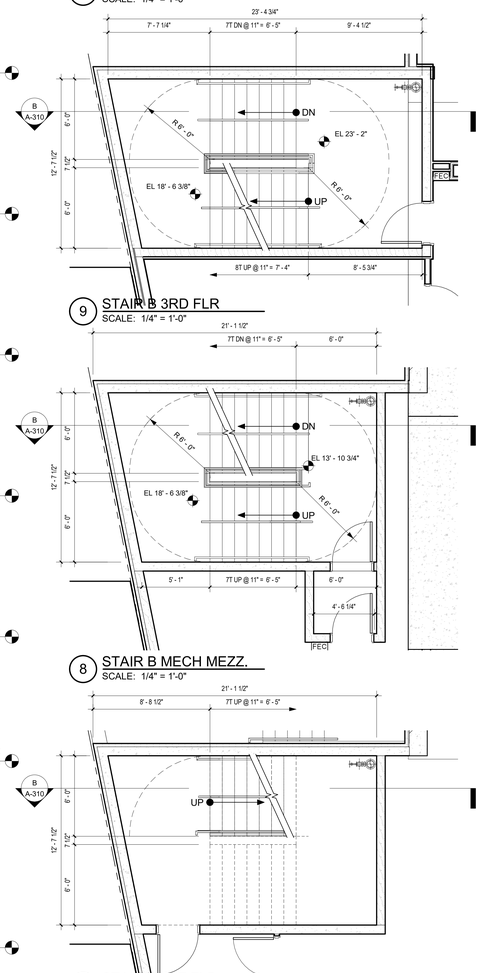
11 STAIR B 6TH FLR
SCALE: 1/4" = 1'-0"



10 STAIR B 4TH FLR (TYPICAL FLOOR)
SCALE: 1/4" = 1'-0"



B STAIR B SECTION
SCALE: 1/4" = 1'-0"



9 STAIR B 3RD FLR
SCALE: 1/4" = 1'-0"

8 STAIR B MECH MEZZ.
SCALE: 1/4" = 1'-0"

7 STAIR B 1ST FLR
SCALE: 1/4" = 1'-0"

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DOB NB#210180089

PROJECT NAME
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Bronx, New York 10460

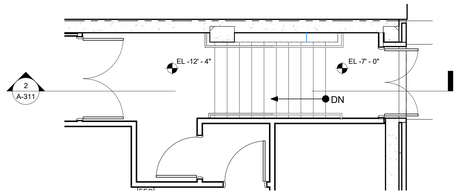
DRAWING TITLE
STAIR PLANS AND SECTIONS

Seal & Signature:

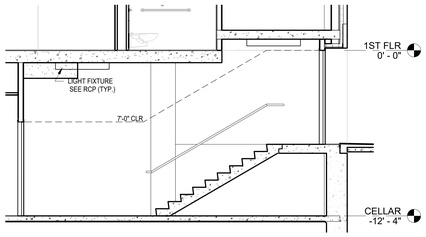
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PROJECT #:	1918
DWG SCALE:	1/4" = 1'-0"
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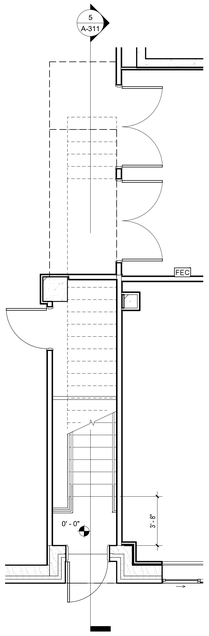
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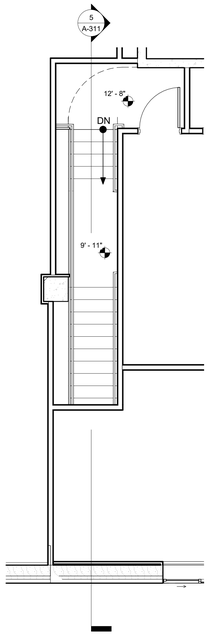
1 STAIR C PLAN
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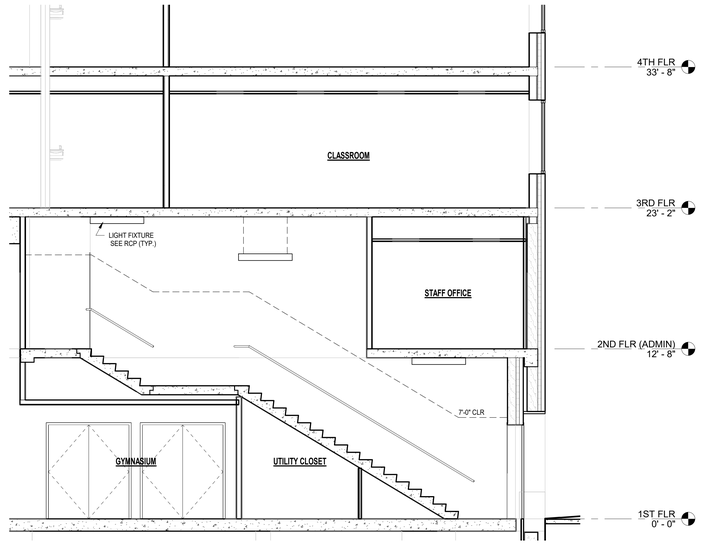
2 STAIR C SECTION
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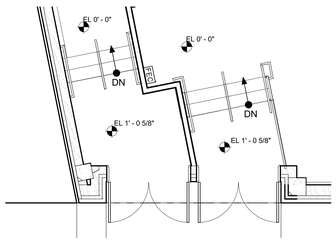
3 STAIR D PLAN (1ST FLR)
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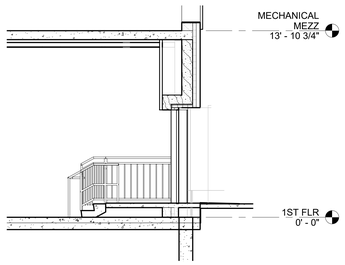
4 STAIR D PLAN (2ND FLR)
SCALE: 1/4" = 1'-0"



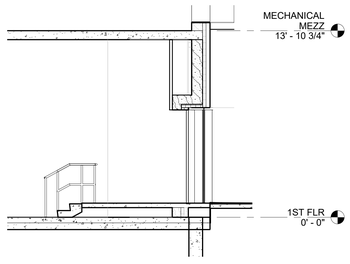
5 STAIR D SECTION
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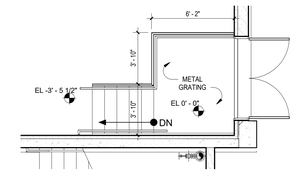
6 1ST FLR - GYM EXIT STAIR
SCALE: 1/4" = 1'-0"



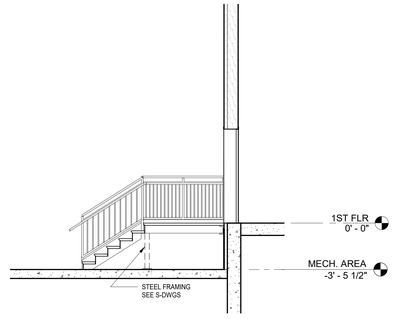
7 SECTION AT EXIT CORRIDOR
SCALE: 1/4" = 1'-0"



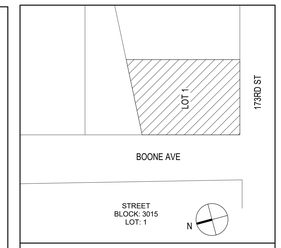
9 SECTION AT GYM STAIR
SCALE: 1/4" = 1'-0"



10 1ST FLR - MECH. AREA STAIR
SCALE: 1/4" = 1'-0"



8 SECTION AT MECH. STAIR
SCALE: 1/4" = 1'-0"



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NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET

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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
STAIR PLANS AND SECTIONS

Seal & Signature:

DATE:	10/08/19
PROJECT #:	1918
DWG SCALE:	1/4" = 1'-0"

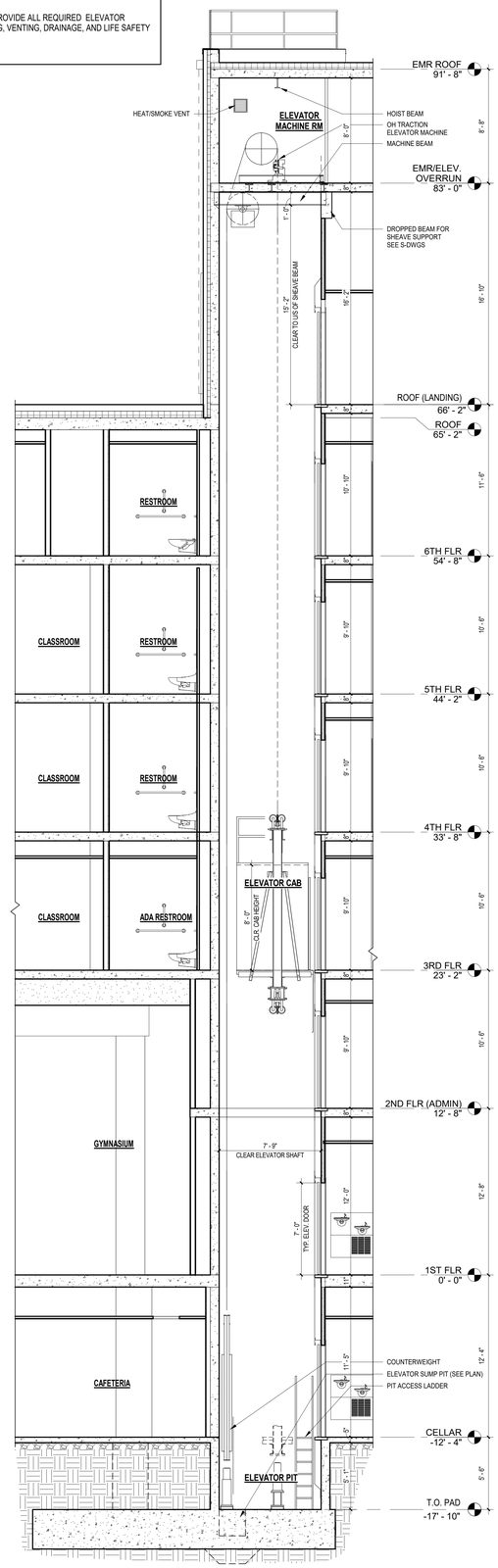
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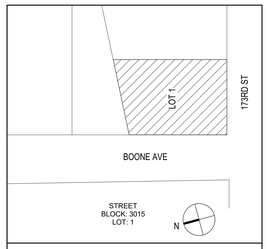
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ELEVATOR NOTES

1. ELEVATOR CONTRACTOR SHALL PROVIDE EQUIPMENT SUITED TO PROVIDE HOISTWAY DIMENSIONS. CONSTRUCTION MANAGER AND/OR GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN ELEVATOR EQUIPMENT VENDOR AND HOISTWAY CONTRACTOR.
2. CONTRACTOR TO PROVIDE ALL REQUIRED ELEVATOR HOISTWAY LIGHTING, VENTING, DRAINAGE, AND LIFE SAFETY EQUIPMENT



1 ELEVATOR SHAFT SECTION
SCALE: 1/4" = 1'-0"



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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

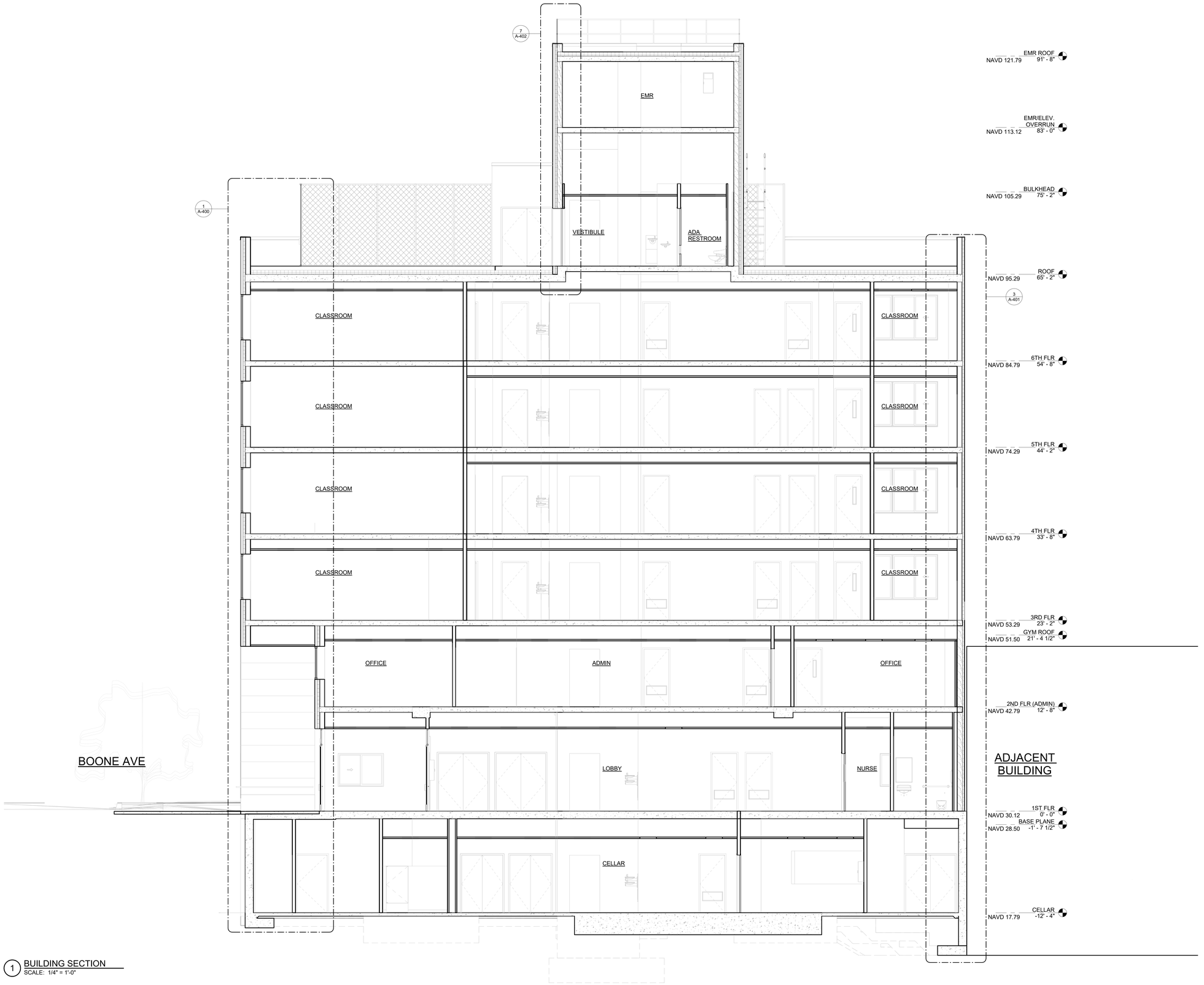
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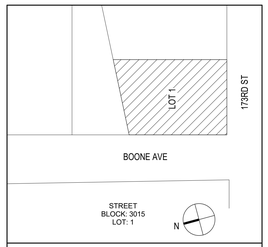
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10/8/2019 5:56:38 PM



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



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DOB NB#210180089

PROJECT NAME
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Bronx, New York 10460

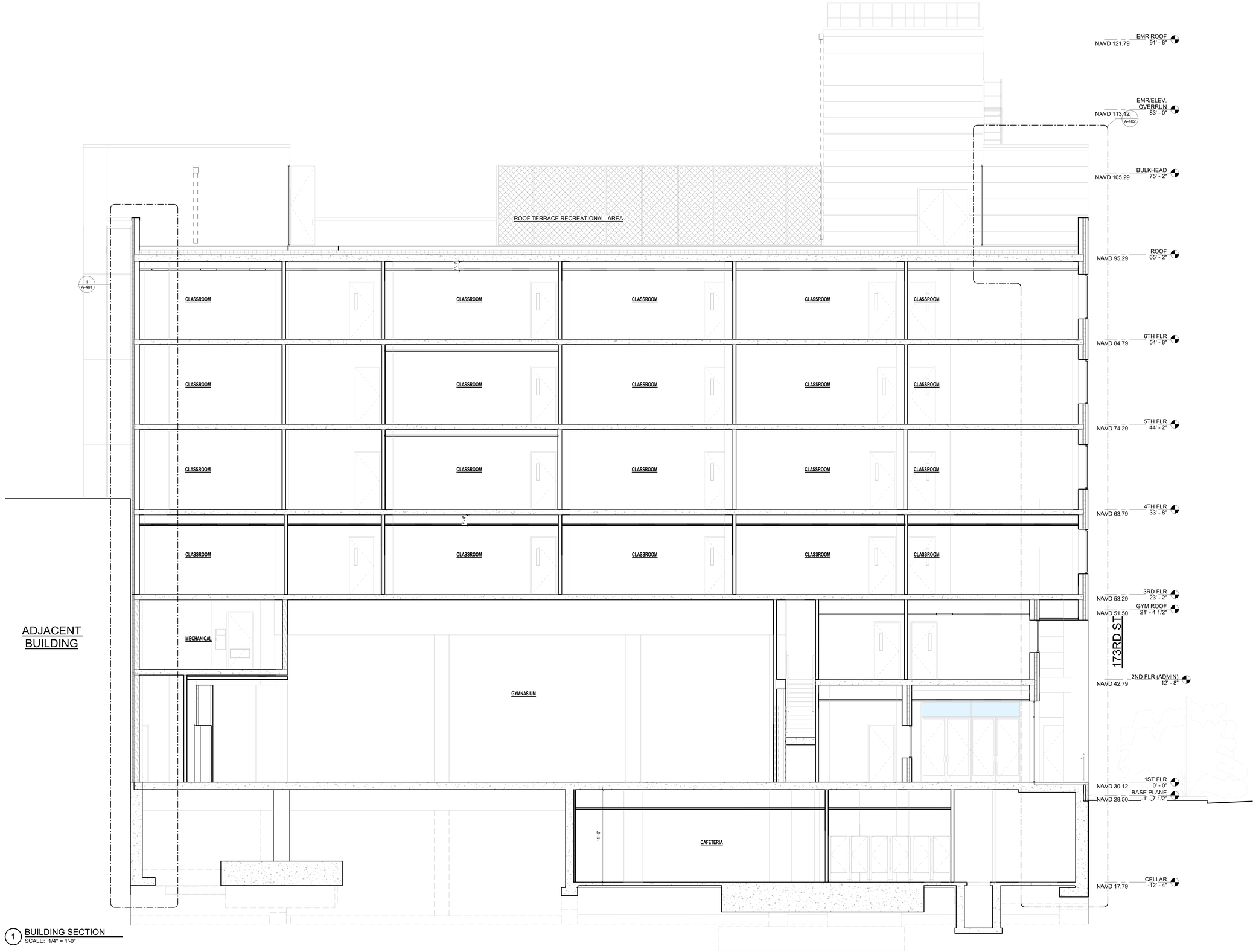
DRAWING TITLE
BUILDING SECTIONS

Seal & Signature:

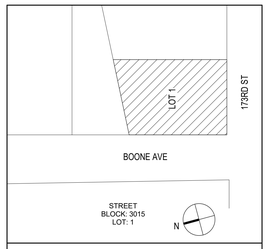
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PROJECT #: 1918
DWG SCALE: 1/4" = 1'-0"
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A-320.00

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



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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

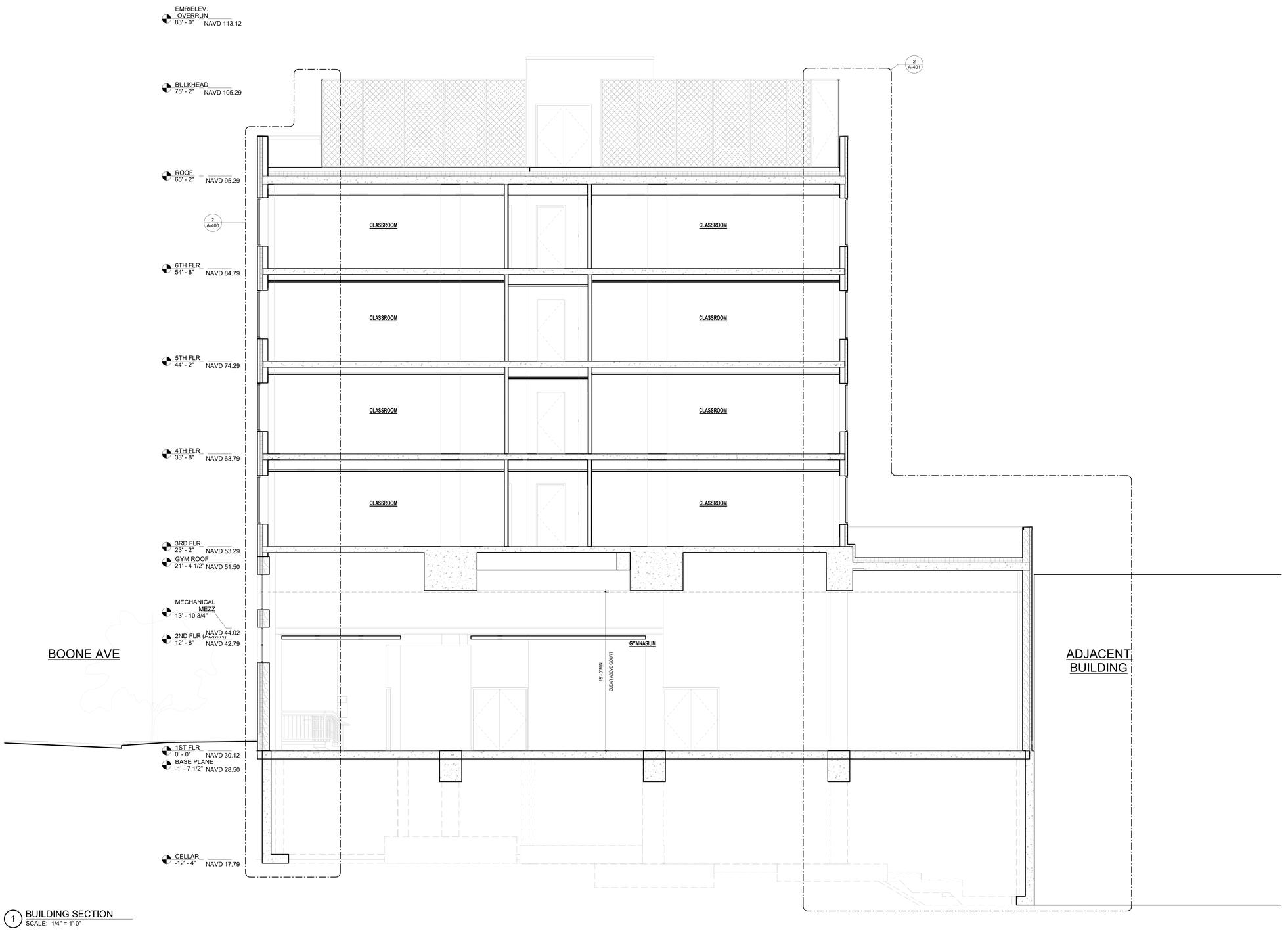
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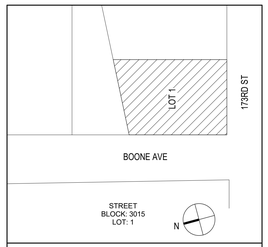
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1 BUILDING SECTION
SCALE: 1/4" = 1'-0"



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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

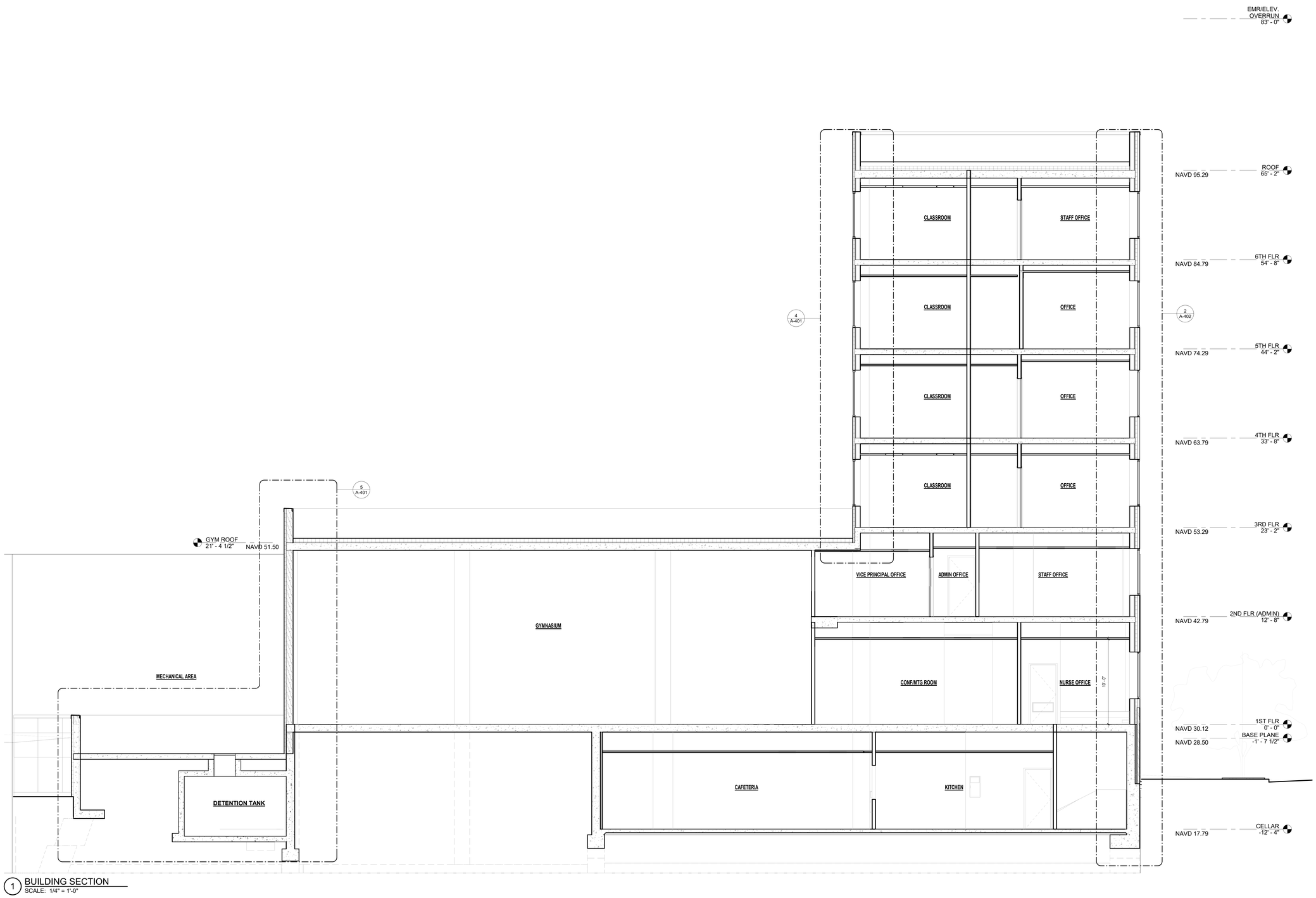
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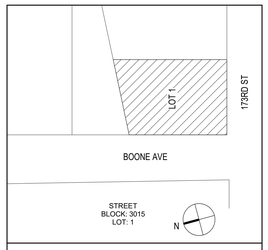
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PROJECT #: 1918
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1 BUILDING SECTION
SCALE: 1/4" = 1'-0"



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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

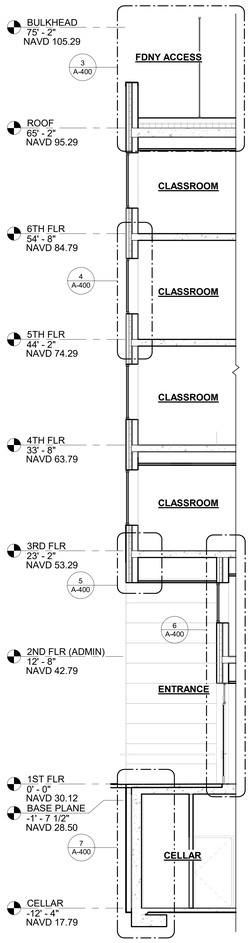
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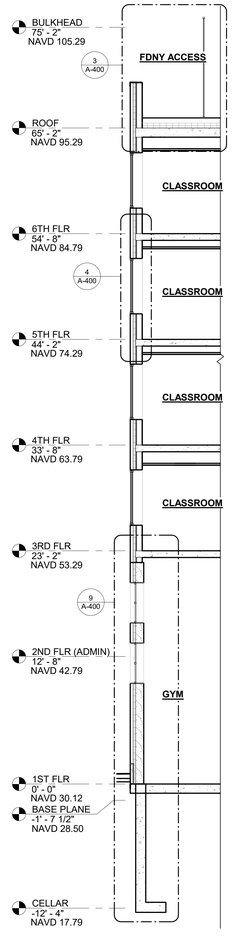
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PROJECT #: 1918
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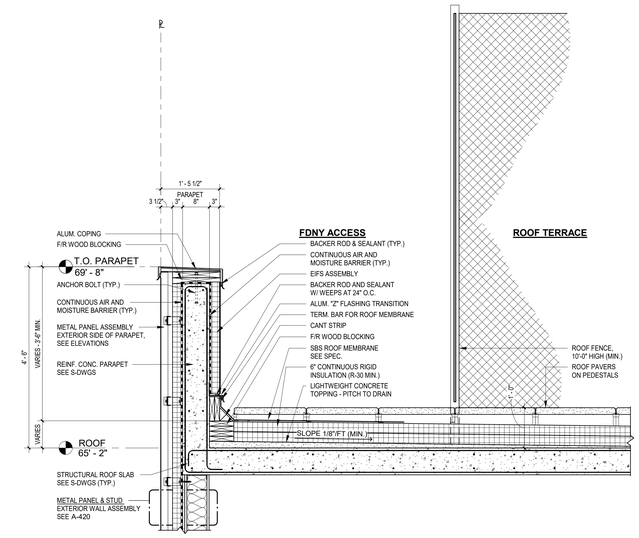
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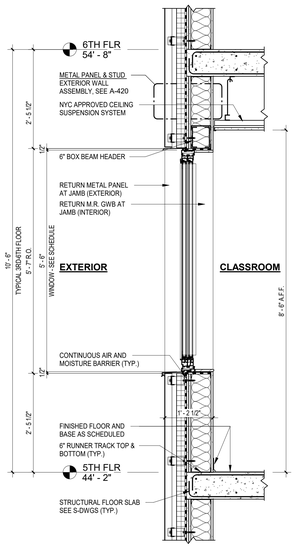
WEST WALL AT
ENTRANCE - KEY
1 SCALE: 3/16" = 1'-0"



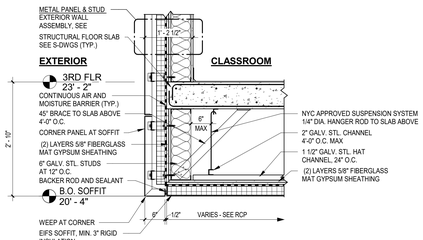
WEST WALL
AT GYM - KEY
2 SCALE: 3/16" = 1'-0"



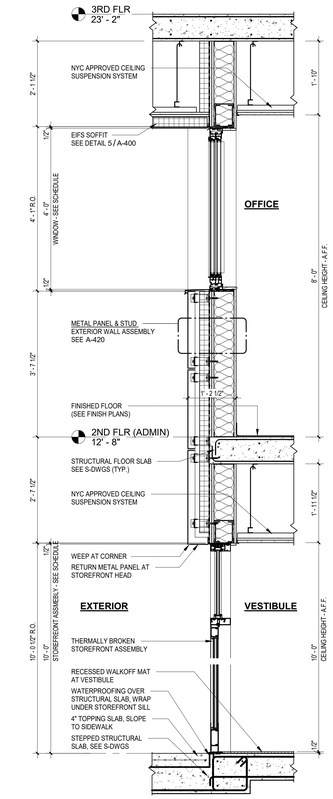
TYPICAL SECTION
AT ROOF PARAPET - FENCE
3 SCALE: 3/4" = 1'-0"



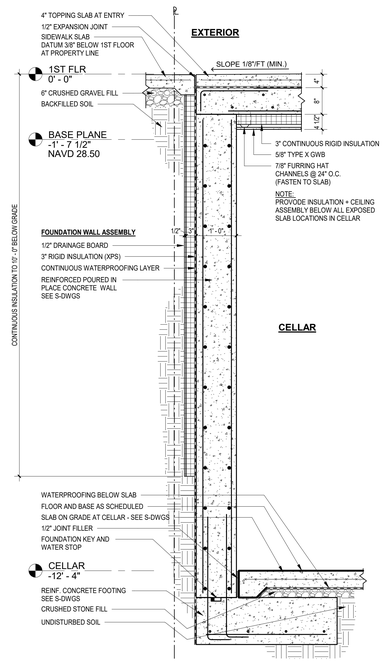
SOUTH/WEST WALL
TYPICAL CLASSROOM FLOOR
4 SCALE: 3/4" = 1'-0"



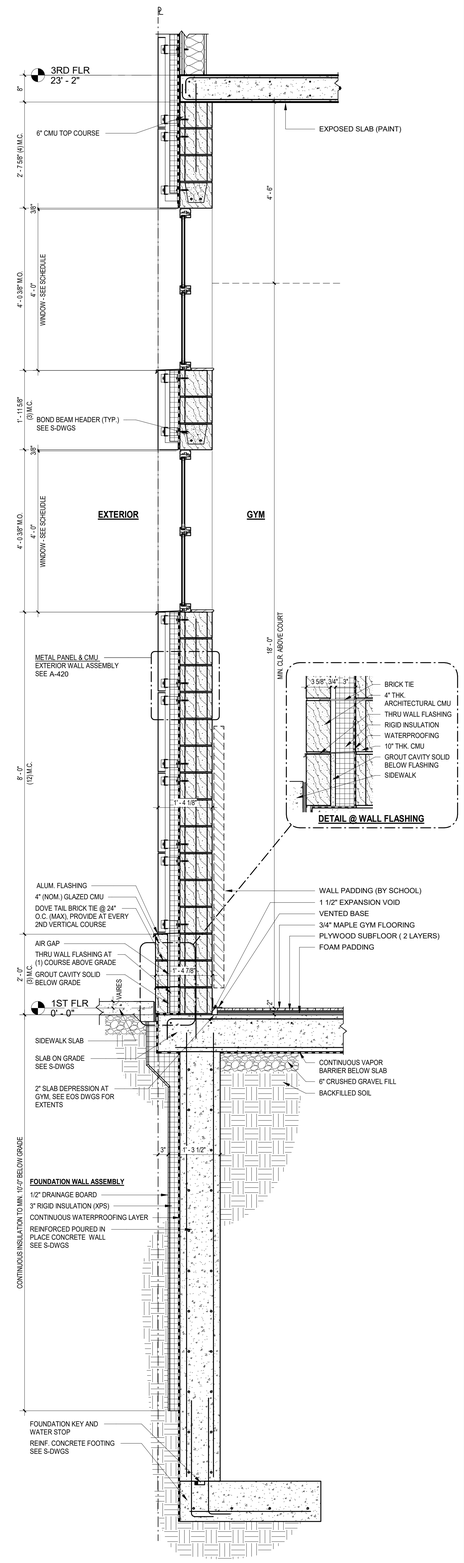
TYPICAL SECTION AT SOFFIT
5 SCALE: 3/4" = 1'-0"



SECTION AT STOREFRONT ENTRY
6 SCALE: 3/4" = 1'-0"



WEST WALL
FOUNDATION SECTION AT ENTRY
7 SCALE: 3/4" = 1'-0"



WEST WALL
SECTION AT GYM
9 SCALE: 3/4" = 1'-0"



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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

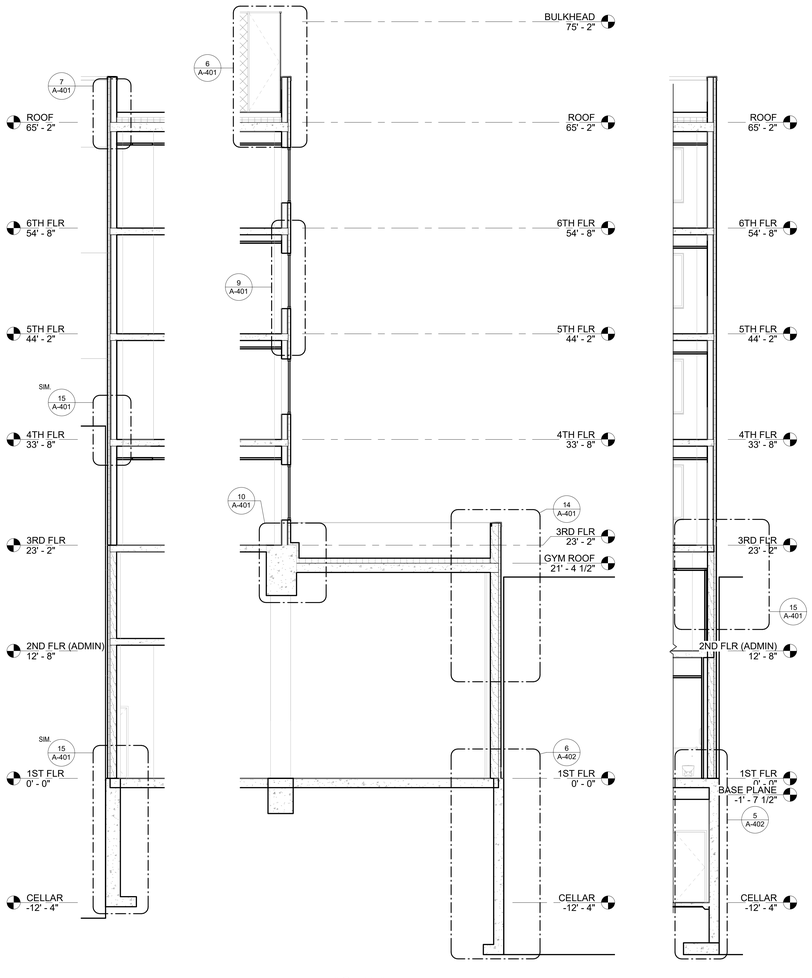
DRAWING TITLE
WALL SECTIONS

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: As indicated
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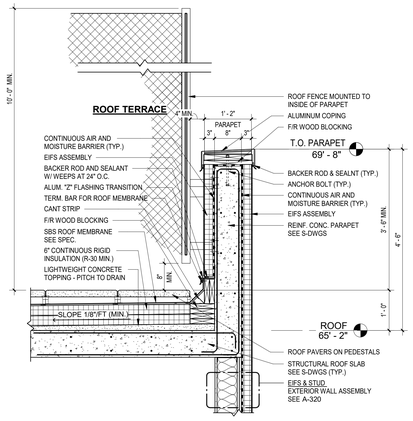
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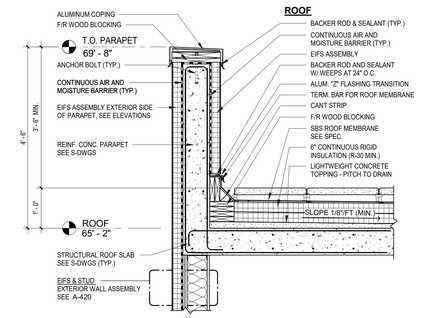
1 NORTH WALL - KEY
SCALE: 3/16" = 1'-0"

2 EAST WALL
AT GYM - KEY
SCALE: 3/16" = 1'-0"

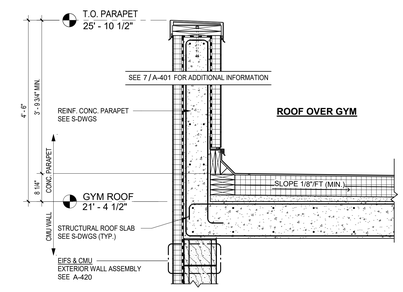
3 EAST WALL - KEY
SCALE: 3/16" = 1'-0"



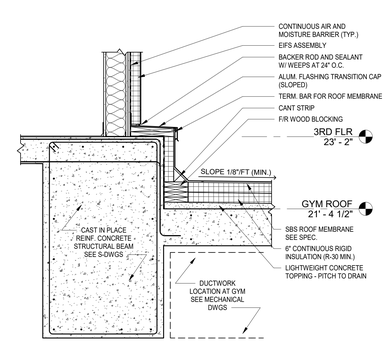
6 EAST WALL - PARAPET AT ROOF
SCALE: 3/4" = 1'-0"



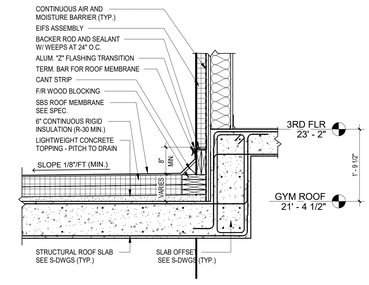
7 NORTH WALL - PARAPET AT ROOF
SCALE: 3/4" = 1'-0"



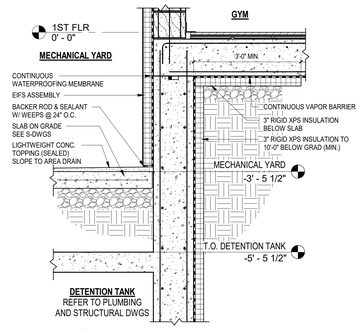
8 NORTH WALL - PARAPET AT GYM
SCALE: 3/4" = 1'-0"



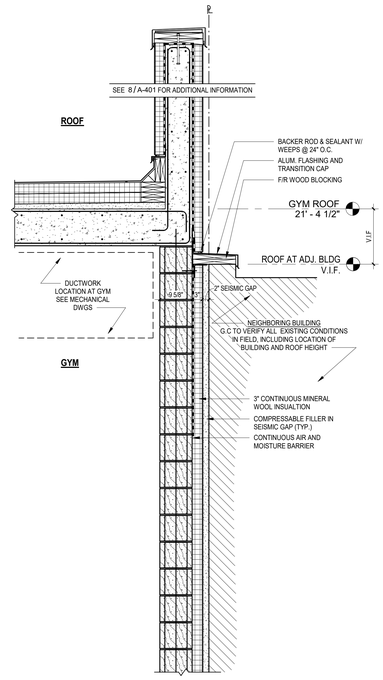
10 EAST WALL - BASE AT BEAM
SCALE: 3/4" = 1'-0"



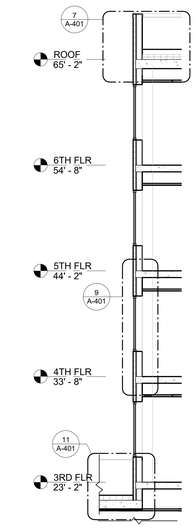
11 NORTH WALL - BASE AT GYM ROOF
SCALE: 3/4" = 1'-0"



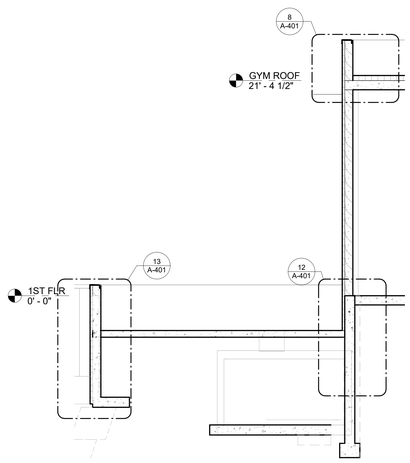
12 NORTH WALL
BASE AT MECHANICAL AREA
SCALE: 3/4" = 1'-0"



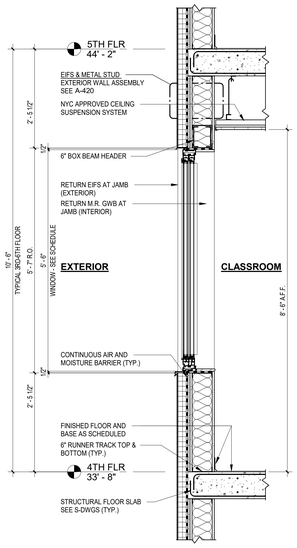
14 EAST WALL - AT PROPERTY LINE
SCALE: 3/4" = 1'-0"



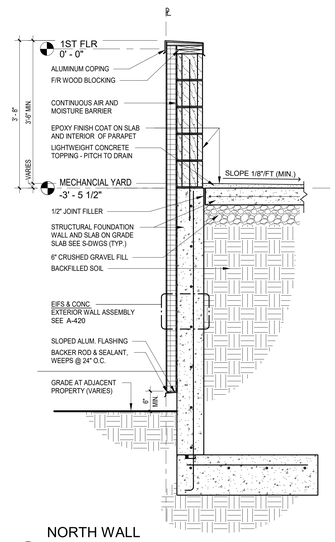
4 NORTH WALL
AT SETBACK - KEY
SCALE: 3/16" = 1'-0"



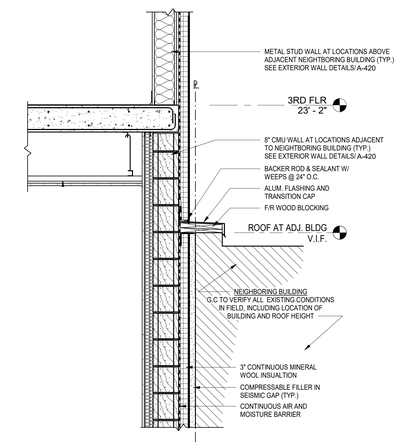
5 NORTH WALL
AT MECHANICAL AREA - KEY
SCALE: 3/16" = 1'-0"



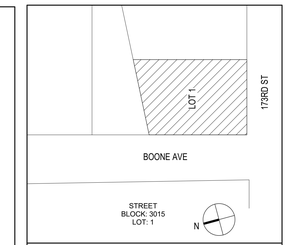
9 NORTH/EAST WALL
TYPICAL CLASSROOM FLOOR
SCALE: 3/4" = 1'-0"



13 NORTH WALL
RETAINING WALL AT MECH. AREA
SCALE: 3/4" = 1'-0"



15 EAST WALL - AT PROPERTY LINE
SCALE: 3/4" = 1'-0"



NOT FOR CONSTRUCTION

NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET

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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

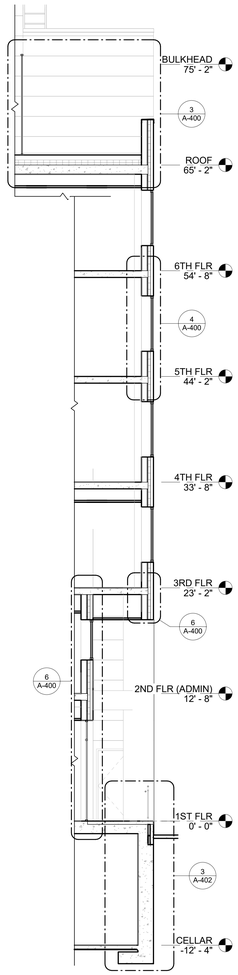
DRAWING TITLE
WALL SECTIONS

Seal & Signature:

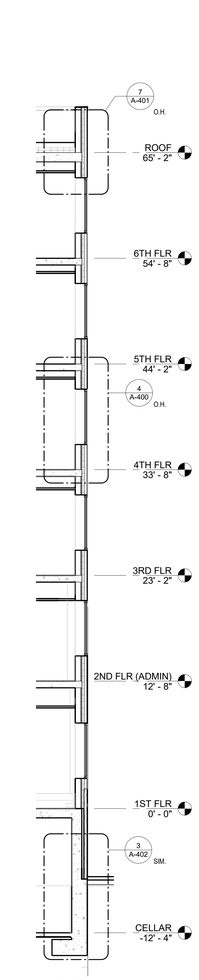
DATE:	10/08/19
PROJECT #:	1918
DWG SCALE:	As indicated
DRAWING NO.:	A-401.00

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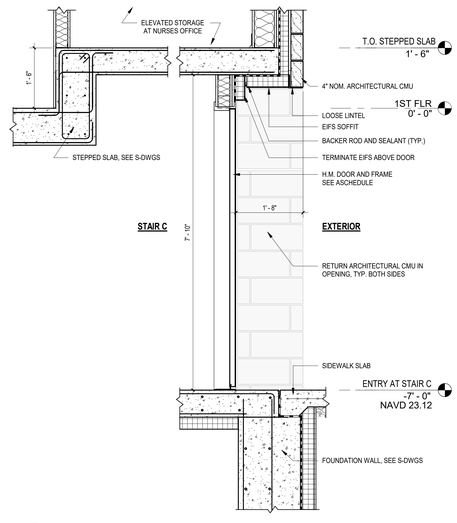
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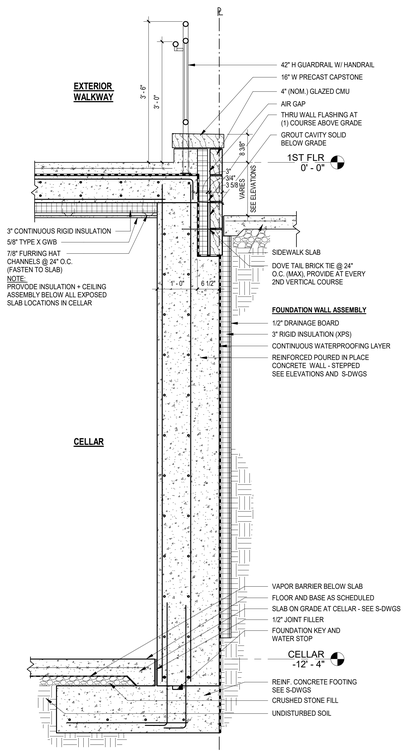
1 SOUTH WALL AT ENTRANCE- KEY
SCALE: 3/16" = 1'-0"



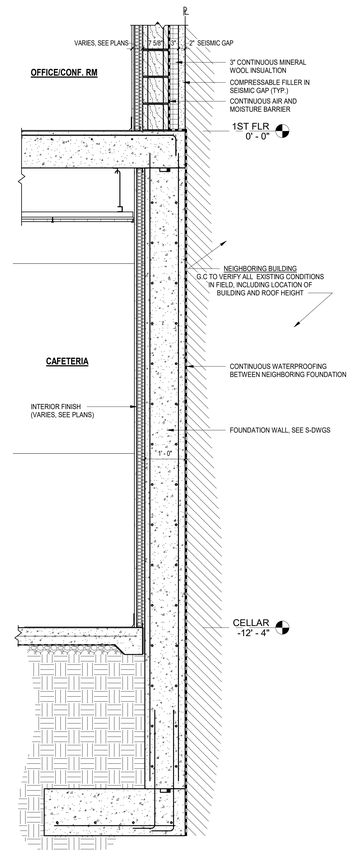
2 SOUTH WALL AT CLASSRMS - KEY
SCALE: 3/16" = 1'-0"



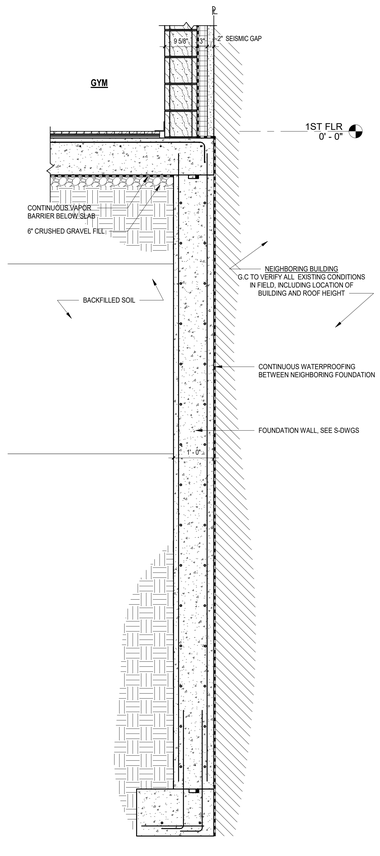
4 SOUTH WALL SECTION AT STAIR C
SCALE: 3/4" = 1'-0"



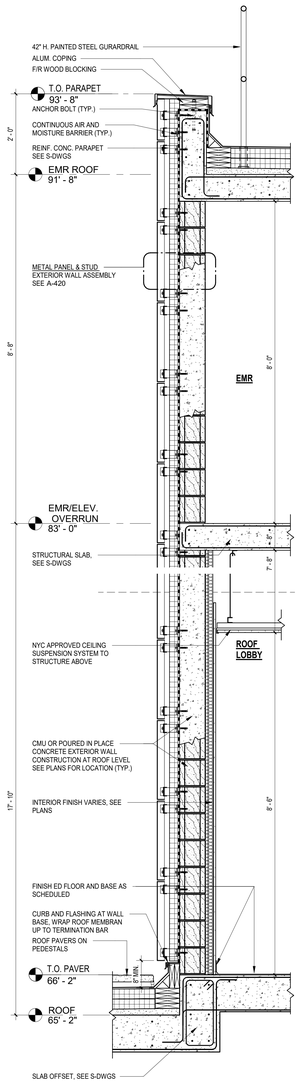
3 SOUTH WALL SECTION AT FOUNDATION
SCALE: 3/4" = 1'-0"



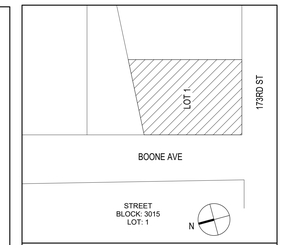
5 EAST WALL (CELLAR) FOUNDATION AT LOT LINE
SCALE: 3/4" = 1'-0"



6 EAST WALL FOUNDATION AT LINE LINE
SCALE: 3/4" = 1'-0"



7 EMR BULKHEAD TYPICAL WALL SECTION
SCALE: 3/4" = 1'-0"



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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

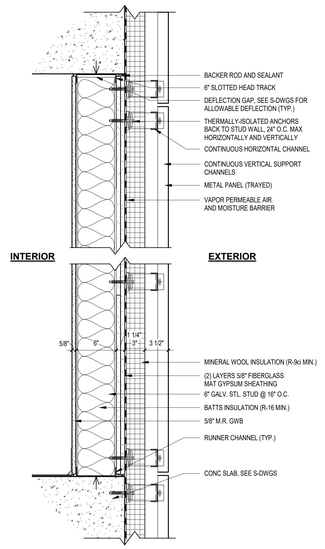
DRAWING TITLE
WALL SECTIONS

Seal & Signature:

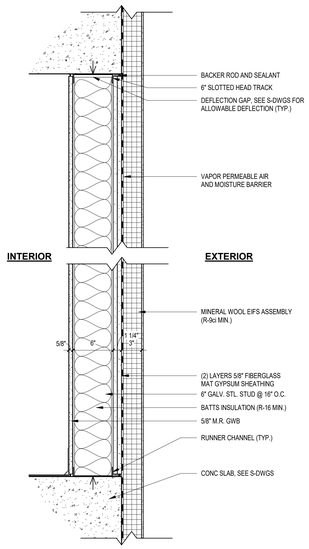
DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: As indicated
DRAWING NO.:
A-402.00

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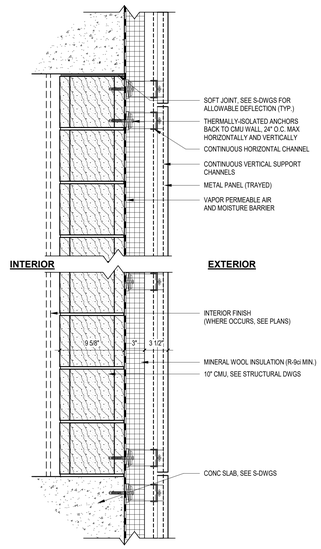
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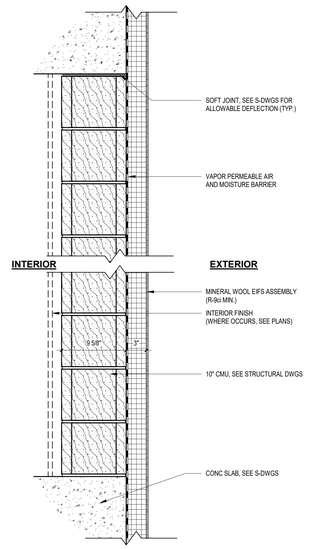
1 EXTERIOR WALL ASSEMBLY
METAL PANEL AND STL. STUD.
SCALE: 1 1/2" = 1'-0"



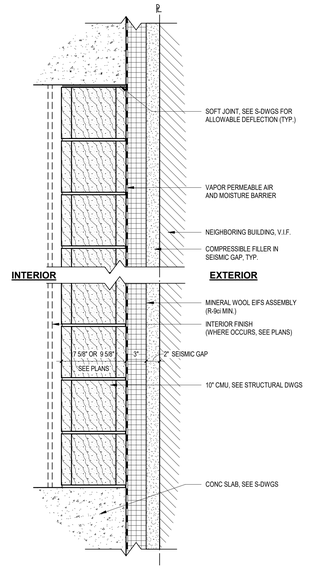
2 EXTERIOR WALL ASSEMBLY
EIFS AND STL. STUD.
SCALE: 1 1/2" = 1'-0"



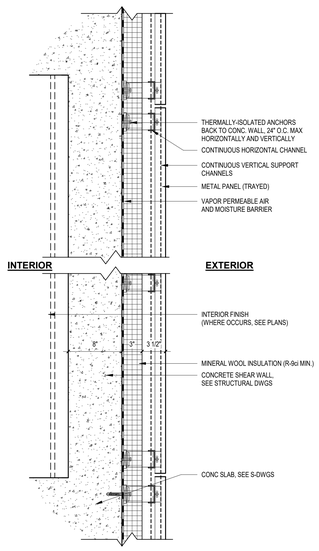
3 EXTERIOR WALL ASSEMBLY
METAL PANEL AND CMU
SCALE: 1 1/2" = 1'-0"



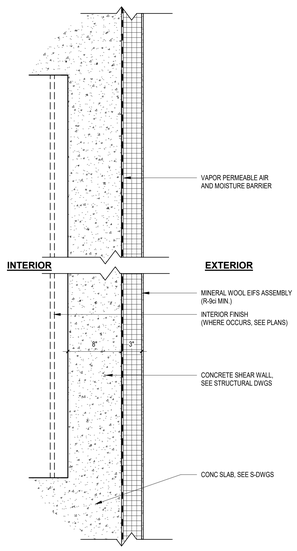
4 EXTERIOR WALL ASSEMBLY
EIFS AND CMU
SCALE: 1 1/2" = 1'-0"



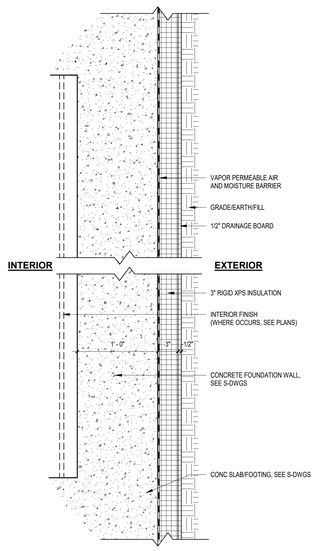
5 EXTERIOR WALL ASSEMBLY
CMU AT LOT LINE
SCALE: 1 1/2" = 1'-0"



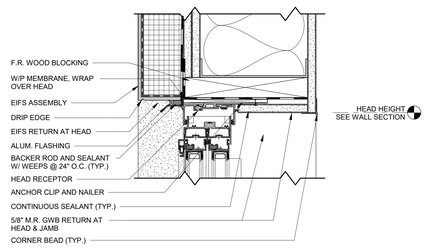
6 EXTERIOR WALL ASSEMBLY
METAL PANEL AND CONCRETE
SCALE: 1 1/2" = 1'-0"



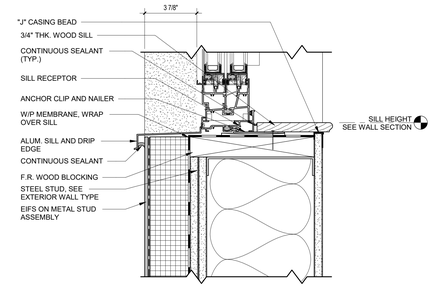
7 EXTERIOR WALL ASSEMBLY
EIFS AND CONCRETE
SCALE: 1 1/2" = 1'-0"



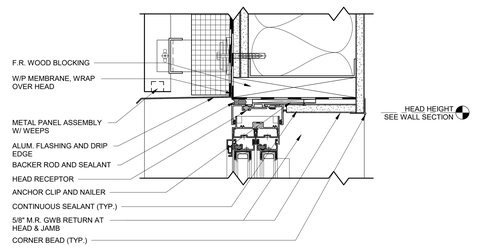
8 EXTERIOR WALL ASSEMBLY
TYP. FOUNDATION WALL
SCALE: 1 1/2" = 1'-0"



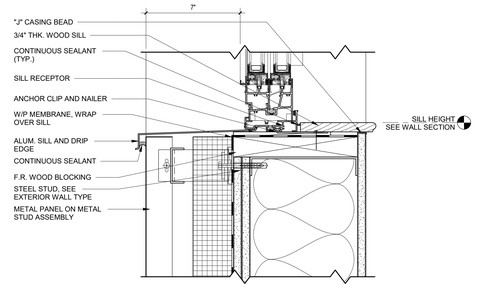
9 HEAD AT EIFS/STUD WALL
SCALE: 3" = 1'-0"



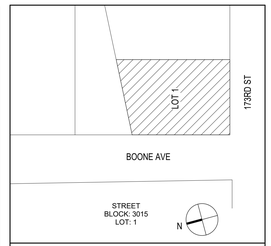
10 SILL AT EIFS/STUD WALL
SCALE: 3" = 1'-0"



11 HEAD AT MTL PANEL/STUD WALL
SCALE: 3" = 1'-0"



12 SILL AT MTL PANEL/STUD WALL
SCALE: 3" = 1'-0"



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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
EXTERIOR WALL DETAILS

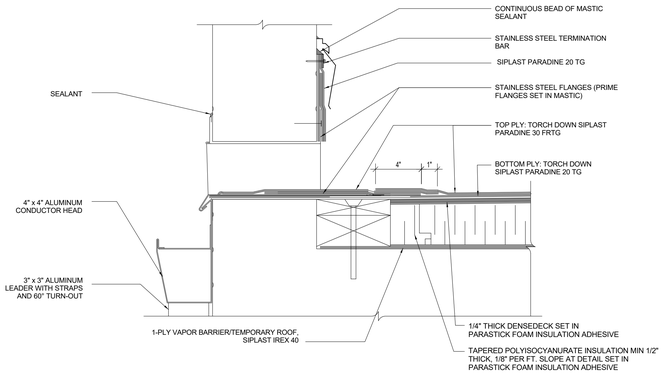
Seal & Signature:

DATE:	10/08/19
PROJECT #:	1918
DWG SCALE:	As indicated
DRAWING NO.:	A-420.00

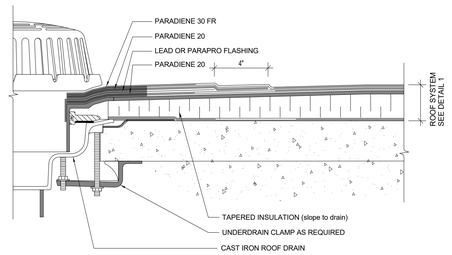
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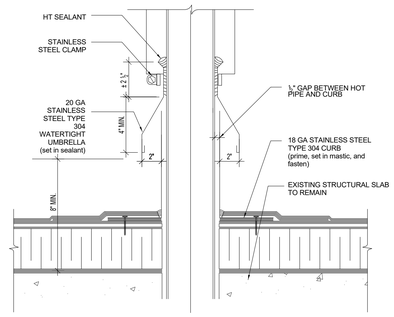
TYPICAL MODIFIED BITUMEN SBS ROOFING DETAILS



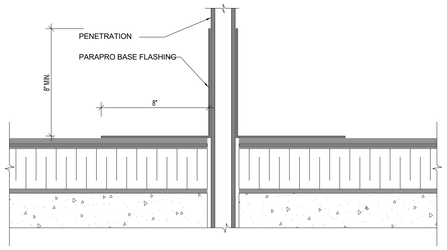
TYPICAL SCUPPER DETAIL AND ROOF ASSEMBLY



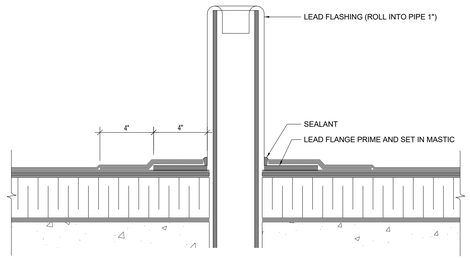
TYPICAL ROOF DRAIN DETAIL



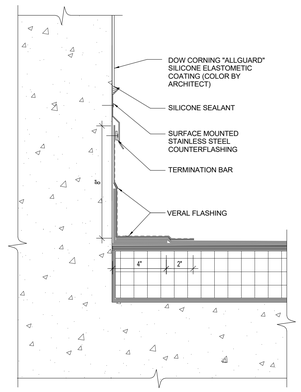
TYPICAL DETAIL AT CURB



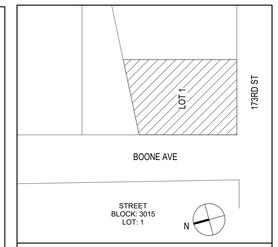
TYPICAL PIPE PENETRATION



TYPICAL PIPE PENETRATION AND TERMNINATION



TYPICAL ROOF TERMINATION AT WALL



-NOT FOR CONSTRUCTION-

NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET
	08/02/19	DOB FILING / 50% CD

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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
ROOF DETAILS

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: 3" = 1'-0"
DRAWING NO.:
A-430.00

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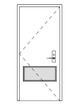
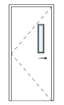
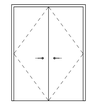
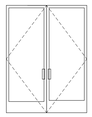
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DOOR SCHEDULE

	LOCATION	TYPE	MATERIAL		SIZE			SADDLE	JAMB	HEAD	FIRE RATING	HDW SET	CARD READER	ELEC LOCK	ELEC STRIKE	REMARKS
			DOOR	FRAME	WIDTH	HEIGHT	THICKNESS									
CELLAR																
C-1	CAFETERIA	D	HM	WM	5' - 0"	7' - 0"	1 3/4"	-	-	-	-	6	-	-	-	
C-2	CAFETERIA	D	HM	WM	6' - 0"	7' - 0"	1 3/4"	-	-	-	.75 HR	6	-	-	-	
C-3	KITCHEN	A	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	.75 HR	10	-	-	-	
C-4	HWH/MECHANICAL	D	HM	WM	5' - 0"	7' - 0"	1 3/4"	-	-	-	-	18	-	-	-	
C-5	UTILITY SINK/MECH.	A	HM	WM	2' - 6"	7' - 0"	1 3/4"	-	-	-	-	13	-	-	-	
C-6	SEWER	A	HM	WM	2' - 6"	7' - 0"	1 3/4"	-	-	-	-	8	-	-	-	
C-7	WATER SERVICE/MECHANICAL	A	HM	WM	3' - 8"	7' - 0"	1 3/4"	-	-	-	-	8	-	-	-	
C-8	ELECTRICAL/MECHANICAL	A	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	9	-	-	-	
C-9	KITCHEN	A	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	10	-	-	-	
C-10	TRASH/STORAGE	A	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	4	-	-	-	
C-11	RESTROOM	B	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	4	-	-	-	
C-12	RESTROOM	B	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	4	-	-	-	
C-13	KITCHEN	A	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	.75 HR	10	-	-	-	
C-14	WATER SERVICE/MECHANICAL	A	HM	WM	3' - 8"	7' - 0"	1 3/4"	-	-	-	-	8	-	-	-	
C-15	RESTROOM	B	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	3	-	-	-	
T-S	STAIR A	A	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	1.5 HR	5	-	-	-	
1ST FLR																
1-1	GYMNASIUM	D	HM	WM	6' - 0"	7' - 0"	1 3/4"	-	-	-	-	7	-	-	-	
1-2	GYMNASIUM	D	HM	WM	6' - 0"	7' - 0"	1 3/4"	-	-	-	.75 HR	7	-	-	-	
1-3	RECEPTION OFFICE	A	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	2	-	-	-	
1-4	RESTROOM	B	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	2	-	-	-	
1-5	NURSE	C	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	2	-	-	-	
1-6	CONF. ROOM	C	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	2	-	-	-	
1-7	ADA RESTROOM	B	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	3	-	-	-	
1-9	UTILITY CLOSET	A	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	13	-	-	-	
1-10	A/V CLOSET	A	HM	WM	2' - 6"	7' - 0"	1 3/4"	-	-	-	-	13	-	-	-	
1-11	STORAGE	D	HM	WM	5' - 0"	7' - 0"	1 3/4"	-	-	-	-	18	-	-	-	
1-12	MECHANICAL (EXTERIOR)	D	HM	WM	6' - 0"	7' - 0"	1 3/4"	-	-	-	-	16	-	-	-	
1-13	BIKE PARKING	A	HM	WM	2' - 6"	7' - 0"	1 3/4"	-	-	-	-	8	-	-	-	
E-1	ENTRY/VESTIBULE	E	AL/GL	AL	6' - 0"	8' - 0"	2"	-	-	-		SF1	-	-	-	THERMALLY BROKEN ALUMINUM AND GLASS STOREFRONT. PROVIDE 1" THK INSULATED SAFETY GLASS UNIT.
E-1A	ENTRY/VESTIBULE	E	AL/GL	AL	6' - 0"	8' - 0"	2"	-	-	-		SF2	-	-	-	THERMALLY BROKEN ALUMINUM AND GLASS STOREFRONT. REFER TO SPEC. PROVIDE 3/8" THK SAFETY GLASS.
E-2	GYMNASIUM	D	HM	WM	6' - 0"	7' - 0"	1 3/4"	-	-	-	-	17	-	-	-	
E-3	GYMNASIUM	D	HM	WM	6' - 0"	7' - 0"	1 3/4"	-	-	-	-	17	-	-	-	
E-4	STAIR C	D	HM	WM	5' - 0"	7' - 0"	1 3/4"	-	-	-	-	17	-	-	-	
E-5	STAIR D	A	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	17	-	-	-	
E-6	STAIR A	A	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	1.5 HR	17	-	-	-	
T-S	STAIR	A	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	1.5 HR	5	-	-	-	
2ND FLR (ADMIN)																
2-1	ADA RESTROOM	B	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	3	-	-	-	
2-2	STAIR D	A	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	.75 HR	5	-	-	-	
2-3	VAULT/RECORDS	A	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	8	-	-	-	
2-4	OFFICES	C	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	2	-	-	-	
2-5	CLOSET DOUBLE	J	WD	WD	4' - 0"	7' - 0"	1 3/8"	-	-	-	-	18	-	-	-	
2-6	IT CLOSET	B	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	8	-	-	-	
T-S	STAIR A	A	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	1.5 HR	5	-	-	-	
MECHANICAL MEZZ																
M-1	MECHANICAL ROOM	B	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	8	-	-	-	
M-2	MECHANICAL ROOM	B	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	8	-	-	-	
3RD FLR - 5TH FLR (TYPICAL)																
3-1	RESTROOM	B	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	4	-	-	-	TYP. 3RD-5TH FLOOR
3-2	ADA BATHROOM	B	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	3	-	-	-	TYP. 3RD-5TH FLOOR
3-3	OFFICE	C	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	2	-	-	-	TYP. 3RD-5TH FLOOR
3-4	JAN. CL.	A	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	13	-	-	-	TYP. 3RD-5TH FLOOR
T-CR	CLASSROOM	C	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	1	-	-	-	TYP. 3RD-5TH FLOOR
T-S	STAIR	A	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	1.5 HR	5	-	-	-	TYP. 3RD-5TH FLOOR
6TH FLR																
6-1	RESTROOM	B	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	4	-	-	-	
6-2	ADA RESTROOM	B	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	3	-	-	-	
6-3	OFFICE	C	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	2	-	-	-	
6-4	JAN. CL.	A	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	13	-	-	-	
T-CR	CLASSROOM	C	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	1	-	-	-	
T-S	STAIR	A	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	1.5 HR	5	-	-	-	
ROOF																
R-1	ROOF STAIR	D	HM	WM	6' - 0"	7' - 0"	1 3/4"	-	-	-	1.5 HR	12	-	-	-	
R-2	VESTIBULE	D	HM	WM	6' - 0"	7' - 0"	1 3/4"	-	-	-	-	15	-	-	-	
R-3	ADA RESTROOM	B	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	3	-	-	-	
R-4	ROOF STORAGE	A	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	14	-	-	-	
EMR/ELEV. OVERRUN																
R-6	EMR	A	HM	WM	3' - 0"	7' - 0"	1 3/4"	-	-	-	-	14	-	-	-	

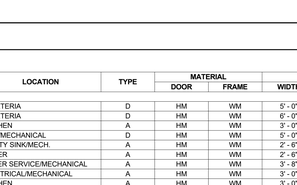
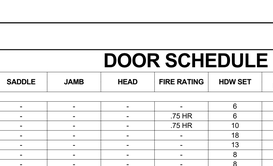
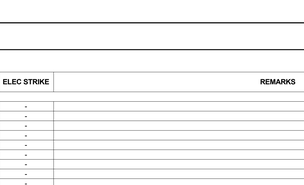
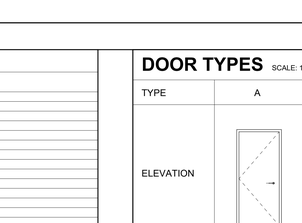
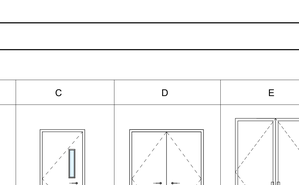
DOOR TYPES

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

TYPE	A	B	C	D	E
ELEVATION					
MATERIAL	HOLLOW METAL	HOLLOW METAL	HOLLOW METAL	HOLLOW METAL	ALUM. STOREFRONT
LOCATION	STAIR/B.O.H.	BATHROOM	OFFICE/CLASS RM	CORRIDOR	ENTRY
DESCRIPTION	FLUSH PANEL	VENTED DOOR	W / LITE	DOUBLE DOOR	STOREFRONT

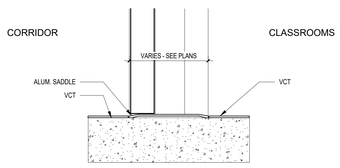
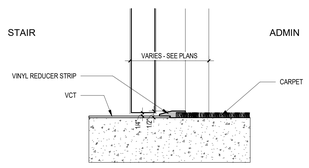
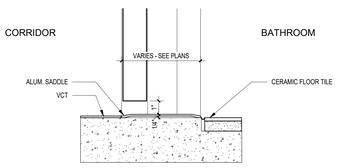
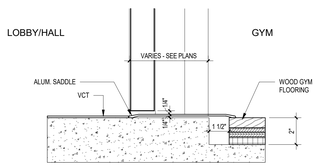
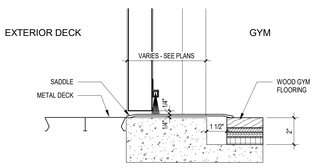
HEAD/JAMB DETAILS

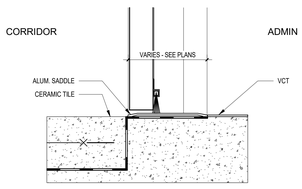
SCALE: 3" = 1'-0"

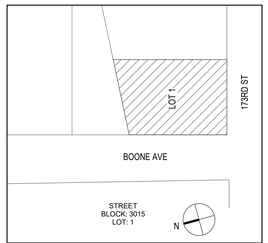
TYPE	J-1	J-2	J-3	J-4	J-4
					
	JAMB AT 2+1 GWB PARTTION	JAMB @ NON RATED METAL STUD/G.W.B PARTITION	JAMB @	JAMB @ CONCRETE SHEAR WALL	JAMB @ CMU

SADDLE DETAILS

SCALE: 3" = 1'-0"

TYPE	S-1	S-2	S-3	S-4	S-5
					
	SADDLE @ TYPICAL CLASSROOM	SADDLE @ ADMIN ENTRY	ALUMINUM SADDLE @ BATHROOMS	SADDLE @ GYM	SADDLE @ MECHANICAL AREA

TYPE	S-6				
					
	SADDLE @ ENTRY				



-NOT FOR CONSTRUCTION-

NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET
	08/02/19	DOB FILING / 50% CD

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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
DOOR SCHEDULE

Seal & Signature:

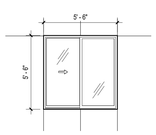
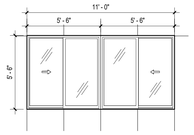
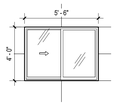
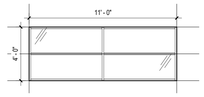
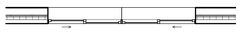
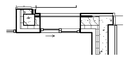
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PROJECT #: 1918
DWG SCALE: As indicated
DRAWING NO.:
A-500.00

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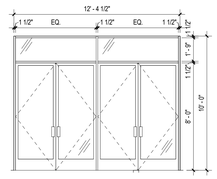
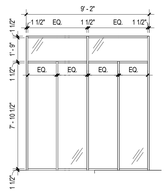
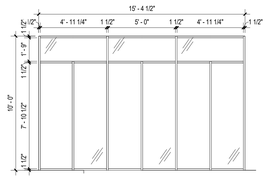
WINDOW TYPES

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

TYPE	A	B	C	D	E			
ELEVATION								
PLAN								
SQFT.	23.8 SF	47.6 SF	16.6 SF	16.6 SF	37.3 SF			
VENTILATION	11.9 SF	23.8 SF	8.3 SF	8.3 SF				
MATERIAL	ALUMINUM FRAMED	ALUMINUM FRAMED	ALUMINUM FRAMED	ALUMINUM FRAMED	ALUMINUM FRAMED			
GLAZING	CLEAR, 6MM, DOUBLE-GLAZED, 1/2" ARGON FILLED GAP W/ 0.10 LOW-E COATING AND METAL SPACERS (TYP. U.O.N)	CLEAR, 6MM, DOUBLE-GLAZED, 1/2" ARGON FILLED GAP W/ 0.10 LOW-E COATING AND METAL SPACERS (TYP. U.O.N)	CLEAR, 6MM, DOUBLE-GLAZED, 1/2" ARGON FILLED GAP W/ 0.10 LOW-E COATING AND METAL SPACERS (TYP. U.O.N)	CLEAR, 6MM, DOUBLE-GLAZED, 1/2" ARGON FILLED GAP W/ 0.10 LOW-E COATING AND METAL SPACERS (TYP. U.O.N)	CLEAR, 6MM, DOUBLE-GLAZED, 1/2" ARGON FILLED GAP W/ 0.10 LOW-E COATING AND METAL SPACERS (TYP. U.O.N)			
OPERATION	SLIDING	SLIDING	SLIDING	SLIDING	FIXED			
U-FACTOR	.44	.44	.44	.44	.44			
SHGC	.4	.4	.4	.4	.4			
OTC RATING	OITC-31	OITC-31	OITC-31	OITC-31	OITC-31			
REMARKS	CRYSTAL 5600 OR APPROVED EQUAL	CRYSTAL 5600 OR APPROVED EQUAL	CRYSTAL 5600 OR APPROVED EQUAL	CRYSTAL 5600 OR APPROVED EQUAL	FIXED WINDOW			

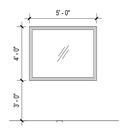
STOREFRONT TYPES

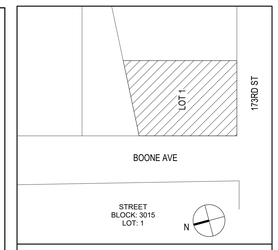
SCALE: 1/4" = 1'-0"

TYPE	S-1	S-2	S-3				
ELEVATION							
PLAN							
SQFT.	-	-	-				
VENTILATION	-	-	-				
MATERIAL	ALUMINUM FRAMED	ALUMINUM FRAMED	ALUMINUM FRAMED				
GLAZING	CLEAR, 6MM, DOUBLE-GLAZED, 1/2" ARGON FILLED GAP W/ 0.10 LOW-E COATING AND METAL SPACERS (TYP. U.O.N)	CLEAR, 6MM, DOUBLE-GLAZED, 1/2" ARGON FILLED GAP W/ 0.10 LOW-E COATING AND METAL SPACERS (TYP. U.O.N)	CLEAR, 6MM, DOUBLE-GLAZED, 1/2" ARGON FILLED GAP W/ 0.10 LOW-E COATING AND METAL SPACERS (TYP. U.O.N)				
OPERATION	STOREFRONT ENTRANCE DOORS	STOREFRONT	STOREFRONT				
U-FACTOR	.77	.77	.77				
SHGC	.4	.4	.4				
OTC RATING	OITC-31	OITC-31	OITC-31				
REMARKS	THERMALLY BROKEN STOREFRONT SYSTEM	THERMALLY BROKEN STOREFRONT SYSTEM	THERMALLY BROKEN STOREFRONT SYSTEM				

BORROWED LIGHT TYPES

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

TYPE	B-1						
ELEVATION							
PLAN							
SQFT.	-						
VENTILATION	-						
MATERIAL	HOLLOW METAL FRAMED						
GLAZING	3/8" LAMINATED SAFETY GLASS (SHATTER-PROOF)						
OPERATION	FIXED						
U-FACTOR	-						
SHGC	-						
OTC RATING	-						
REMARKS	-						



NOT FOR CONSTRUCTION

NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET
	08/02/19	DOB FILING / 50% CD

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BAYSIDE, NY 11361
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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
WINDOW SCHEDULE

Seal & Signature:

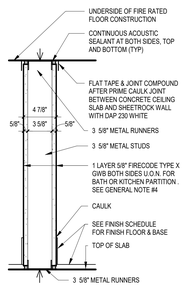
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PROJECT #: 1918
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DRAWING NO.:
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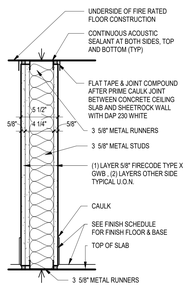
PARTITION TYPES

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

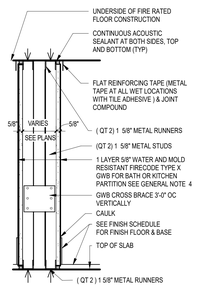


1 **NON-RATED PARTITION**
3 5/8" 18 GA. STUD @ 24" O.C.
(HEIGHT LIMIT: 9'-6")

1A **1 HR-RATED PARTITION**
3 5/8" 18 GA. STUD @ 24" O.C. UL DES. NO. U419
(HEIGHT LIMIT: 9'-6")

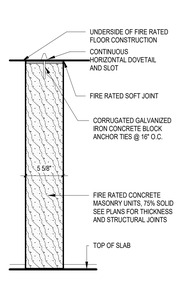


2 **NON-RATED PARTITION (2&1 W/ S.A.B.)**
3 5/8" 18 GA. STUD @ 24" O.C.
(HEIGHT LIMIT: 9'-6")

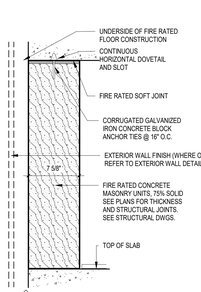


3 **NON-RATED CHASE WALL**
(2) 1 5/8" 25 GA. STUD @ 16" O.C.
(HEIGHT LIMIT: 11'-6")

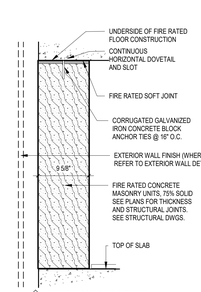
3A **1 HR-RATED CHASE WALL**
(2) 1 5/8" 25 GA. STUD @ 16" O.C. UL DES. NO. U420
(HEIGHT LIMIT: 11'-6")



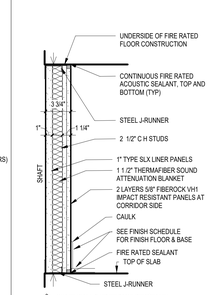
4 **6" EXPOSED MASONRY PARTITION**
UL DES. NO. U904



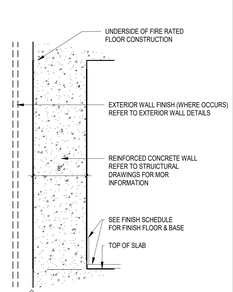
5 **8" EXPOSED MASONRY PARTITION**
UL DES. NO. U904



6 **10" EXPOSED MASONRY PARTITION**
UL DES. NO. U904

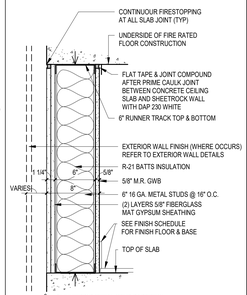


7 **SHAFT WALL 2 HR (IMPACT RESISTANT)**
UL U415 SYSTEM B; STC 39



8 **8" CAST-IN-PLACECONCRETE WALL**

NOTE:
REFER TO EXTERIOR WALL DETAILS FOR ENVELOPE ASSEMBLY



9 **6" EXTERIOR METAL STUD PARTITION**

NOTE:
REFER TO EXTERIOR WALL DETAILS FOR ENVELOPE ASSEMBLY

12 LAMINATED TO SURFACE , 5/8 GWB

12A 7/8" FURRING, 5/8 GWB

12B 1 5/8" FURRING, 5/8 GWB

13 **2HR DUCT ENCLOSURE (LINED VENT SHAFT) UL U529**
FOR DUCTS 2 SQ.FT. OR MORE

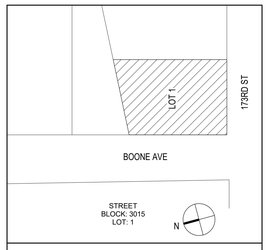
IN LIEU OF 2-HR GWB ENCLOSURE, PROVIDE CONTINUOUS 2-HR RATED FIREMASTER DUCT WRAP ON ALL HORIZONTAL RUNS.
SEE ALL MECH. DRAWINGS AND SPECS.

PARTITION GENERAL NOTES:

1. REFER TO EXTERIOR WALL DETAILS FOR ENVELOPE ASSEMBLY.
2. REFER TO PLANS FOR FIRE RATED WALL LOCATIONS.
3. EXPOSED PAINTED WALLS TO RECEIVE LEVEL 3 FINISH, UNEXPOSED WALLS TO RECEIVE LEVEL 1 FINISH - ALL COMPLIANT TO NATIONAL GYPSUM ASSOCIATION GA-214-10.
4. USE CEMENT BOARD IN PLACE OF GYPSUM WALL BOARD AT ALL BATHROOM TILE LOCATIONS.
5. SUPPLY AND INSTALL LIQUID WATERPROOFING MEMBRANE UNDER ALL TILED FLOOR SURFACES IN BATHROOMS
6. ALL HEIGHT LIMITS BASED ON L/360 FROM UNITED STATES GYPSUM COMPANY SA 923 TABLE 3 AND 4.
7. FIRE RATED PARTITION ASSEMBLIES BASED ON GYPSUM ASSOCIATION DESIGN MANUAL, 17TH ADDITION.
8. USE MOLD RESISTANT GWB AT ALL MECHANICAL VENTILATION SHAFTS, PIPE SHASES, OFFSETS, ELEVATOR SHAFTS, AND AT ALL EXTERIO WALL ASSEMBLIES.
9. ALL INTERIOR PARTITIONS, REGARDLESS OF FIRE RATING, SHALL EXTEND TO UNDERSIDE OF SLAB.

DETAIL @ BATHROOM WALLS

-NOT FOR CONSTRUCTION-



NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET
	08/02/19	DOB FILING / 50% CD

ARCHITECT
Stephen B. Jacobs Group, P.C.
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212 421 3712

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M.E.P. Engineer
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217-22 NORTHERN BLVD. SUITE 1
BAYSIDE, NY 11361
(718)-224-9091

DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
PARTITION TYPES

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: As indicated
DRAWING NO.:
A-520.00

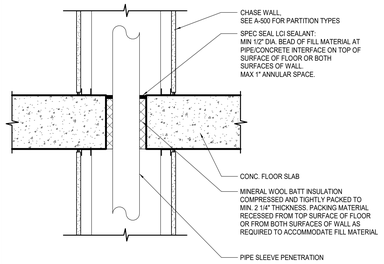
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10/8/2019 5:57:13 PM

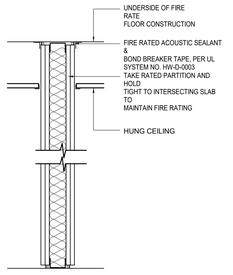
FIRESTOPPING DETAILS

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

C-AJ-1353 ANSI / UL1479 (ASTM E814)
F RATING - 2 HR

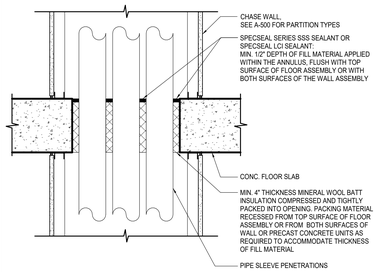


A FLOOR PENETRATION - SINGLE
SECTION



B PARTITION INTERSECTIONS @ CEILING
SECTION

C-AJ-8113 ANSI / UL1479 (ASTM E814)
F RATING - 2 HR

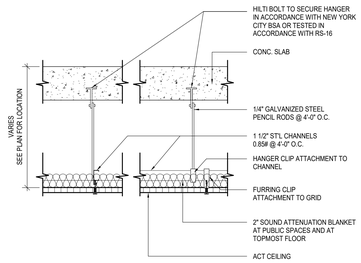


A FLOOR PENETRATIONS - MULTIPLE
SECTION
FOR FLOOR PENETRATIONS NOT CONTAINED/LOCATED WITHIN WALL CAVITY, PROVIDE MIN. 1 HR T-RATING & F-RATING, BUT NOT LESS THAN RATING OF FLOOR PENETRATED, PER 2014 NYC BC 713.4.1.1.2.
EXCEPTION:
FLOOR PENETRATIONS CONTAINED AND LOCATED WITHINTHE CAVITY OF A WALL DO NOT REQUIRE A T RATING

B PARTITION INTERSECTIONS @ WALL
PLAN

TYP. HUNG CEILING DETAIL N.T.S.

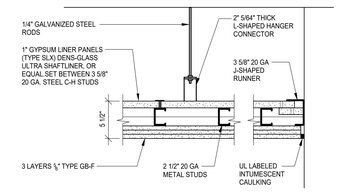
NOTE:
ALL SUSPENDED CEILINGS TO COMPLY WITH APPENDIX R OF NYC BUILDING CODE 2014.



E TYP. HUNG CEILING DETAIL
SECTION

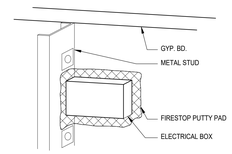
2 HR RATED HUNG CEILING N.T.S.

2HR. UL U263, DESIGN NO. K502
SECTION A-A



H 2 HR RATED HUNG CEILING DETAIL
SECTION

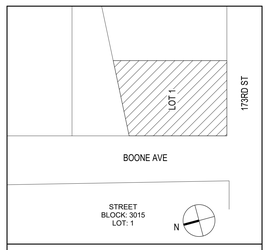
TYP. JUNCTION BOX DETAILS



G FIRESTOP PUTTY PAD
ASTM E 84, MEA-102-99M
SCALE: N.T.S.

TO BE USED WHERE RATED WALLS/SHAFTS ARE PENETRATED BY OUTLETS, SWITCHES, ETC.

J PLAN VIEW OF STAGGERED JUNCTION BOXES
SCALE: 1 1/2" = 1'-0"



-NOT FOR CONSTRUCTION-

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	10/08/19	90% CD
	09/23/19	85% PROGRESS SET

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PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

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PARTITION DETAILS

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: 1 1/2" = 1'-0"
DRAWING NO.:
A-521.00

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10/8/2019 5:57:14 PM

ROOM FINISH SCHEDULE

NUMBER	NAME	WALL	CEILING	FLOOR	BASE	REMARKS
CELLAR						
C-01	CELLAR LOBBY	PT-01	ACT-01	VCT-01	WB-01	
C-02	CAFETERIA	PT-01	ACT-01	VCT-01	WB-01	
C-03	BOYS RESTROOM	PT-01/WT-01	ACT-02	CT-01	CT-01	
C-04	KITCHEN	FRP	ACT-02	QT-01	QB-01	
C-05	TRASH/STORAGE	FRP	-	QT-01	QB-01	
C-07	ADA RESTROOM	PT-01/WT-01	ACT-02	CT-01	CT-01	
C-08	GIRLS RESTROOM	PT-01/WT-01	ACT-02	CT-01	CT-01	
C-09	ELEC./MECHANICAL	-	-	EP-01	-	WALLS READY TO PAINT
C-10	WATER SERV./MECH.	-	-	EP-01	-	WALLS READY TO PAINT
C-11	HWH/MECHANICAL	-	-	EP-01	-	WALLS READY TO PAINT
C-12	SEWER	-	-	EP-01	-	WALLS READY TO PAINT
C-13	UTIL. SINK/MECH.	PT-01	ACT-02	EP-01	WB-01	
1ST FLR						
1-00	VESTIBULE	PT-01	ACT-01	VCT-01	WB-01	PROVIDE RECESSEDWALK-OFF MATS
1-01	LOBBY	PT-01	ACT-01	VCT-01	WB-01	
1-02	NURSE OFFICE	PT-01	ACT-02	VCT-01	WB-01	
1-02A	ADA RESTROOM	PT-01/WT-01	ACT-02	CT-01	CT-01	
1-03	CONF./MTG ROOM	PT-01	ACT-01	CPT-01	WB-01	
1-04	GIRLS RESTROOM	PT-01/WT-01	ACT-02	CT-01	CT-01	
1-05	BOYS RESTROOM	PT-01/WT-01	ACT-02	CT-01	CT-01	
1-06	GYMNASIUM	PT-01	-	WD-01	WB-01	
1-06A	UTILITY CLOSET	PT-01	ACT-02	EP-01	WB-01	
1-06B	BIKE STORAGE	PT-01	-	EP-01	WB-01	
1-08	RECEPTION OFFICE	PT-01	ACT-01	CPT-01	WB-01	
EXTERIOR	MECHANICAL AREA	-	-	-	-	
2ND FLR (ADMIN)						
2-00	ADMIN OFFICE	PT-01	ACT-01	CPT-01	WB-01	
2-00A	IT CLOSET	PT-01	ACT-01	CPT-01	WB-01	NON-STATIC
2-01	PRINCIPAL OFFICE	PT-01	ACT-01	CPT-01		
2-02	STAFF OFFICE	PT-01	ACT-01	CPT-01	WB-01	
2-03	STAFF OFFICE	PT-01	ACT-01	CPT-01	WB-01	
2-04	VICE PRINCIPAL OFFICE	PT-01	ACT-01	CPT-01	WB-01	
2-05	RECEPTION OFFICE	PT-01	ACT-01	CPT-01	WB-01	
2-06	ADA RESTROOM	PT-01/WT-01	ACT-02	CT-01	CT-01	
2-07	ADA RESTROOM	PT-01/WT-01	ACT-02	CT-01	CT-01	
2-08	VAULT/ RECORDS	PT-01	ACT-01	VCT-01	WB-01	
2-09	MECHANICAL	-	-	EP-01	-	WALLS READY TO PAINT
3RD FLR						
3	CORRIDOR	PT-01	ACT-01	VCT-01	WB-01	TYP. FOR 3RD-5TH FLOOR
3-00	OFFICE	PT-01	ACT-01	CPT-01	WB-01	TYP. FOR 3RD-5TH FLOOR
3-01	CLASSROOM	PT-01	ACT-01	VCT-01	WB-01	TYP. FOR 3RD-5TH FLOOR
3-02	BOYS RESTROOM	PT-01/WT-01	ACT-02	CT-01	CT-01	TYP. FOR 3RD-5TH FLOOR
3-03	GIRLS RESTROOM	PT-01/WT-01	ACT-02	CT-01	CT-01	TYP. FOR 3RD-5TH FLOOR
3-04	ADA RESTROOM	PT-01/WT-01	ACT-02	CT-01	CT-01	TYP. FOR 3RD-5TH FLOOR
3-05	CLASSROOM	PT-01	ACT-01	VCT-01	WB-01	TYP. FOR 3RD-5TH FLOOR
3-06	CLASSROOM	PT-01	ACT-01	VCT-01	WB-01	TYP. FOR 3RD-5TH FLOOR
3-07	CLASSROOM	PT-01	ACT-01	VCT-01	WB-01	TYP. FOR 3RD-5TH FLOOR
3-08	CLASSROOM	PT-01	ACT-01	VCT-01	WB-01	TYP. FOR 3RD-5TH FLOOR
3-09	CLASSROOM	PT-01	ACT-01	VCT-01	WB-01	TYP. FOR 3RD-5TH FLOOR
3-10	CLASSROOM	PT-01	ACT-01	VCT-01	WB-01	TYP. FOR 3RD-5TH FLOOR
3-11	CLASSROOM	PT-01	ACT-01	VCT-01	WB-01	TYP. FOR 3RD-5TH FLOOR
3-12	CLASSROOM	PT-01	ACT-01	VCT-01	WB-01	TYP. FOR 3RD-5TH FLOOR
3-13	CLASSROOM	PT-01	ACT-01	VCT-01	WB-01	TYP. FOR 3RD-5TH FLOOR
6TH FLR						
6	CORRIDOR	PT-01	ACT-01	VCT-01	WB-01	
6-00	STAFF OFFICE	PT-01	ACT-01	CPT-01	WB-01	
6-01	CLASSROOM	PT-01	ACT-01	VCT-01	WB-01	
6-02	BOYS RESTROOM	PT-01/WT-01	ACT-02	CT-01	CT-01	
6-03	GIRLS RESTROOM	PT-01/WT-01	ACT-02	CT-01	CT-01	
6-04	RESTROOM	PT-01/WT-01	ACT-02	CT-01	CT-01	
6-05	CLASSROOM	PT-01	ACT-01	VCT-01	WB-01	
6-06	CLASSROOM	PT-01	ACT-01	VCT-01	WB-01	
6-07	CLASSROOM	PT-01	ACT-01	VCT-01	WB-01	
6-08	CLASSROOM	PT-01	ACT-01	VCT-01	WB-01	
6-09	CLASSROOM	PT-01	ACT-01	VCT-01	WB-01	
6-10	CLASSROOM	PT-01	ACT-01	VCT-01	WB-01	
6-11	CLASSROOM	PT-01	ACT-01	VCT-01	WB-01	
6-12	CLASSROOM	PT-01	ACT-01	VCT-01	WB-01	
6-13	CLASSROOM	PT-01	ACT-01	VCT-01	WB-01	
ROOF						
R	ROOF TERRACE	-	-	RP-01	-	-
R-00	ROOF VESTIBULE	PT-01	ACT-01	VCT-01	WB-01	
R-01	STUDENT ADA RESTRM	PT-01/WT-01	ACT-02	CT-01	CT-01	
R-02	ROOF STORAGE	-	-	EP-01	-	WALLS READY TO PAINT

NOTE: CONTRACTOR TO ASSUME A MIN. OF THREE PAINT COLORS FOR FUTURE DIRECTION BY OWNWER.

FINISH KEY SCHEDULE

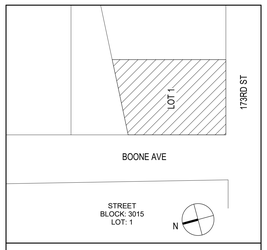
TAG	TYPE	MANUF	MODEL	FINISH	LOCATION	SIZE	REMARKS
WALL							
FRP	FIBERGLASS REINFORCED WALL PANEL						
PT-01	GWB - PAINT	BENJAMIN MOORE	-	SATIN/EGGSHELL	WHERE INDICATED	-	3 COATS MINIMUM, COLOR TBD
WT-01	WALL TILE	MSI	SMOT-PT-BRIWHT-2X48	GLOSSY,WHITE	RESTROOMS	2"x4"	TILE TO 6'-0" A.F.F. PROVIDE CEMENT BOARD IN PLACE OF GWB AT ALL BATHROOM TILE LOCATIONS.
FLOOR							
CPT-01	CARPET	MOHAWK GROUP	BT449 INTERTHREAD	LIGHT SLATE	SEE PLAN	24"x24"	PROVIDE WALL BASE WB-01 AT ALL CARPET LOCATIONS
CT-01	CERAMIC TILE	MSI	LISMORE	GRAY	SEE PLAN	12"x12"	-
EP-01	EPOXY COATING	ARMSTRONG	ARMORSEAL 8100	GLOSS		-	GRAY COLOR
QT-01	QUARRY TILE						
RP-01	ROOF PAVERS ON PEDESTALS						
VCT-01	VINYL COMPOSITION TILE	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE	-		12" x 12" x 1/8"	PROVIDE WALL BASE WB-01 AT ALL VCT LOCATIONS. COLOR TBD
WD-01	MAPLE GYM FLOORING	CONNOR SPORTS FLOORING	065D	-	GYM	-	3/4" THICKNESS, PROVIDE 2" STRUCTURAL SLAB DEPRESSION AT LOCATIONS TO RECEIVE WOOD FLOORING. G.C. TO PROVIDE STANDARD GYM STRIPING FOR BASKETBALL AND VOLLEYALL COURTS.
CEILING							
ACT-01	ACOUSTIC CEILING TILE	ARMSTRONG	ULTIMA	WHITE	WHERE INDICATED	24" x 24"	9/16" SUPRAFINE SUSPENSION TEE
ACT-02	ACOUSTIC CEILING TILE - WASHABLE	ARMSTRONG	KITCHEN ZONE	WHITE	KITCHEN, TRASH RM	24" x 24"	PRELUDE XL SUSPENSION TEE
PT-01	GWB - PAINT	BENJAMIN MOORE	-	-	-	-	BUDGET FOR 3 COLORS
BASE							
CT-01	SEE WT-01						CERAMIC TILE BASE BASE TO MATCH FLOOR W/ BEVEALED/ ROUND EDGE, CONTRACTOR TO PROVIDE CORNER TILE PIECES (INWARD/OUTWARD) AS REQUIRED.
QB-01	QUARRY TILE						QUARRY TILE BASE TO MATCH FLOOR W/ BEVEALED/ ROUND EDGE, CONTRACTOR TO PROVIDE CORNER TILE PIECES (INWARD/OUTWARD) AS REQUIRED.
WB-1	VINYL COVE BASE	JOHNSONITE	VINYL WALL BASE	-	WHERE INDICATED		COLOR TO BE CONFIRMED BY OWNER/ARCHITECT
_MISCELLANEOUS							
-	HM DOORS AND FRAMES - PAINT	BENJAMIN MOORE	-	-	-	-	-

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUF.	MODEL	FINISH	LOCATION	REMARKS
DF-1	ADA BI LEVEL DRINKING FOUNTAIN	ELKAY	EHWB17C	STAINLESS STEEL	WHERE INDICATED	SLIMELINE SOFT SIDE HEAVY DUTY, NOT-FILTERED, NON-REFRIGERATED. PROVIDED BY TENANT.
EW-1	EMERGENCY EYE WASH STATION	SPEAKMAN	SE-697			
S-1	ADA LAVATORY	AMERICAN STANDARD	LUCERNE	WHITE	BATHROOMS	WITH ELKAY MODEL LK402L2 FAUCET
S-2	SINK - SCIENCE/ART RMS	ELKAY	LUSTERONE		SCIENCE & ART RMS	
S-3	MOP SINK					
UR-1	WALL HUNG URINAL	AMERICAN STANDARD	WASHBROOK 1.0 GPF URINAL SYSTEM	6501.511		
WC-1	TOILET	AMERICAN STANDARD	GLENWALL PRESSURE-ASSSISTED TOILET	2093.100		

BATHROOM ACCESSORY SCHEDULE

TAG	TYPE	MANUF	MODEL	FINISH	COMMENTS
GB-2	24" VERTICAL GRAB BAR	BOBRICK	B-8506 X 24		REFER TO ADA SHEET FOR MOUNTING LOCATION
GB-3	36" GRAB BAR	BOBRICK	B-8506 X 36		REFER TO ADA SHEET FOR MOUNTING LOCATION
GB-3.5	42" GRAB BAR	BOBRICK	B-8506 X 42		REFER TO ADA SHEET FOR MOUNTING LOCATION
MIR-1	FRAMELESS MIRROR	BOBRICK	B-1556		REFER TO ADA SHEET FOR MOUNTING LOCATION
SD-1	SOAP DISPENSER	-	-	-	TENANT SUPPLIED, CONTRACTOR INSTALLED. REFER TO ADA SHEET FOR MOUNTING LOCATION
PTD-1	PAPER TOWEL DISPENSER	-	-	-	TENANT SUPPLIED, CONTRACTOR INSTALLED. REFER TO ADA SHEET FOR MOUNTING LOCATION
TPD-1	TOILET TISSUE DISPENSER	BOBRICK	B-265	-	TENANT SUPPLIED, CONTRACTOR INSTALLED. REFER TO ADA SHEET FOR MOUNTING LOCATION
TPN-1	TOILET PARTITION		-	-	PLASTIC LAMINATE FLOOR MOUNTED TOILET PARTITIONS
WD-1	WASTE BIN	-	-	-	TENANT SUPPLIED, CONTRACTOR INSTALLED. REFER TO ADA SHEET FOR MOUNTING LOCATION
SND-1	SANITARY NAPKIN DISPENSER	-	-	-	TENANT SUPPLIED, CONTRACTOR INSTALLED. REFER TO ADA SHEET FOR MOUNTING LOCATION



-NOT FOR CONSTRUCTION-

NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET

ARCHITECT
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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

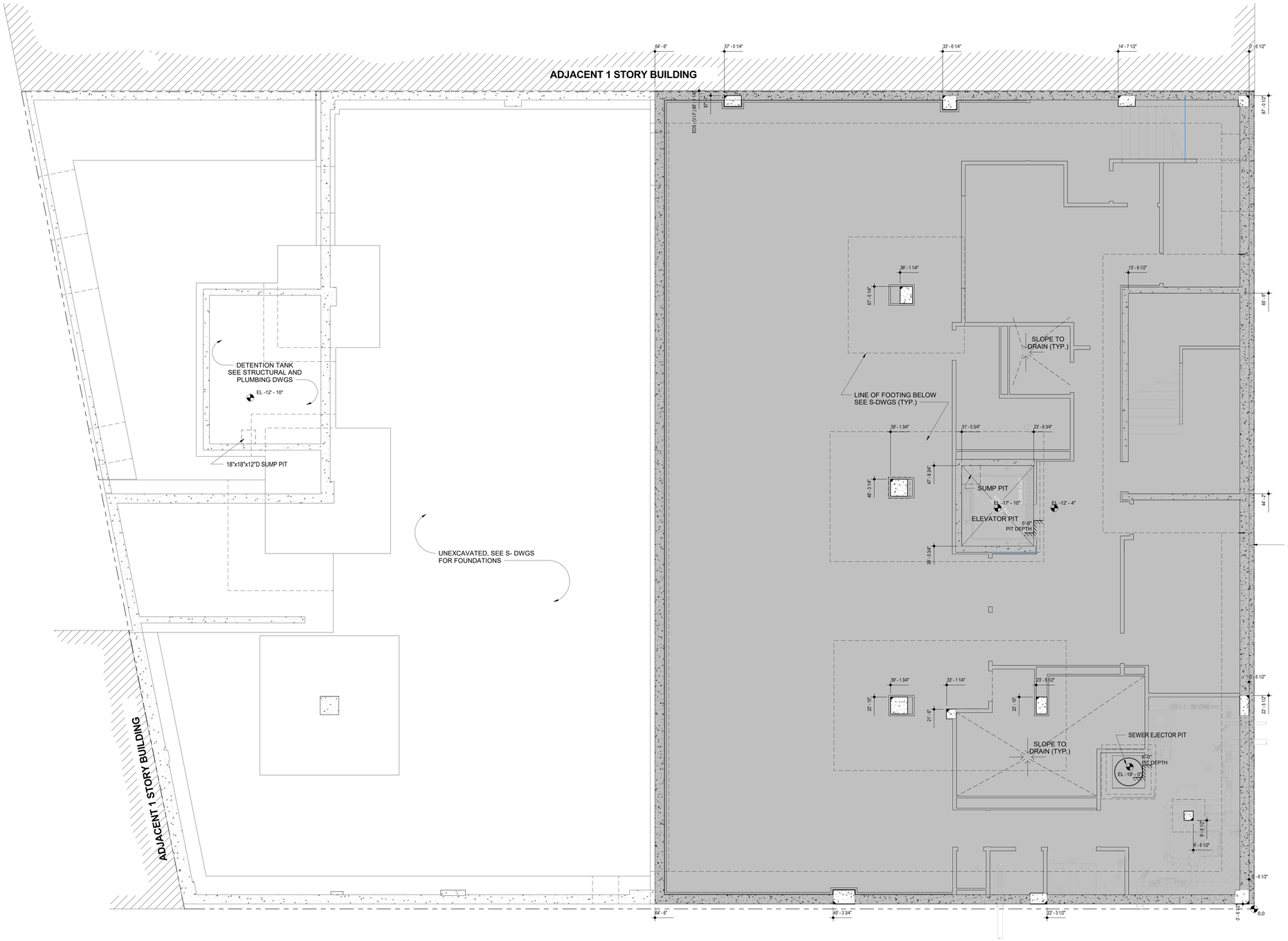
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FINISH, PLUMBING FIXTURE, AND ACCESSORY SCHEDULES

Seal & Signature:

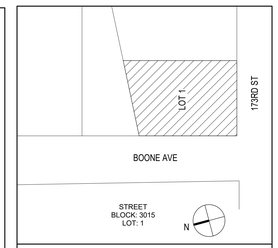
DATE: 10/08/19
PROJECT #: 1918
DWG SCALE:
DRAWING NO.:
A-530.00

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N 1 CELLAR SLAB PLAN
SCALE: 1/4" = 1'-0"



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	10/08/19	90% CD
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DOB NB#210180089

PROJECT NAME
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Bronx, New York 10460

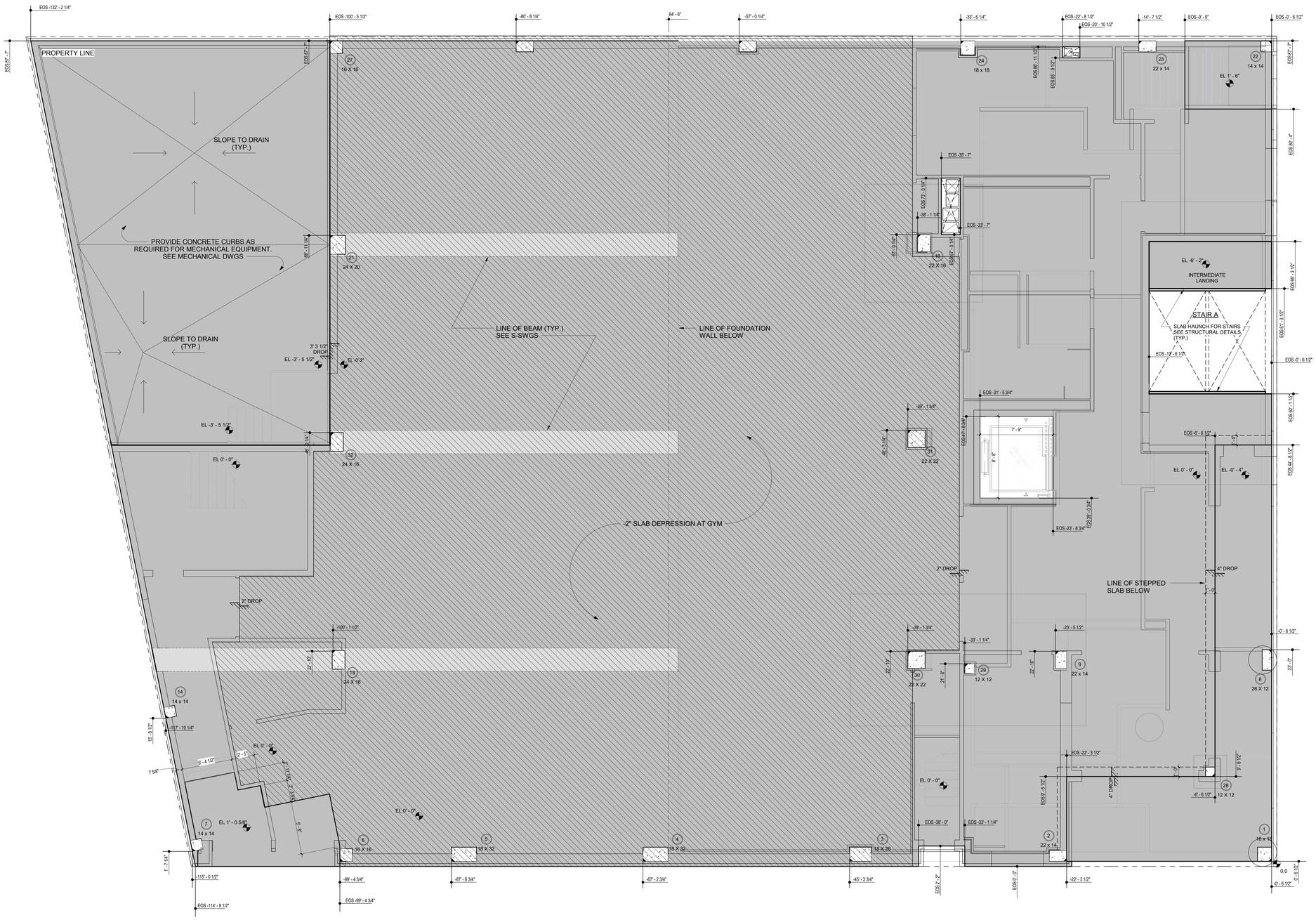
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CELLAR SLAB

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
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DRAWING NO.:
A-800.00

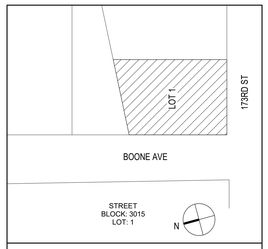
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N

1 EOS 1ST FLR
SCALE: 1/4" = 1'-0"



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NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET

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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

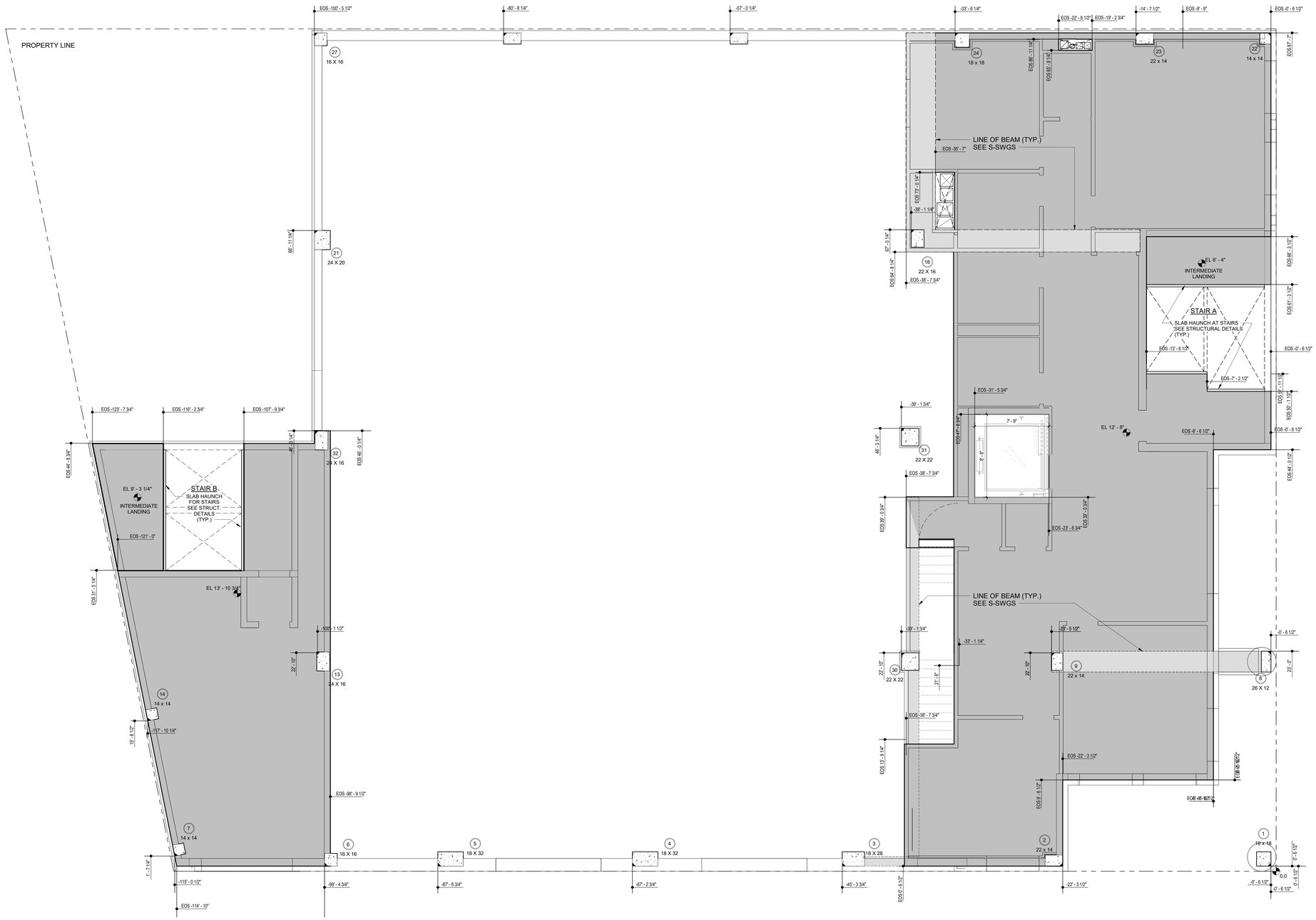
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1ST FLOOR EOS

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: 1/4" = 1'-0"
DRAWING NO.:
A-801.00

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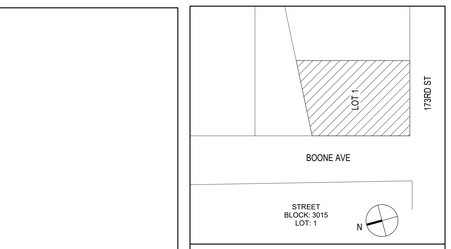
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N

1 EOS 2ND FLOOR (ADMIN)

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



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NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET

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PROJECT NAME

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Bronx, New York 10460

DRAWING TITLE

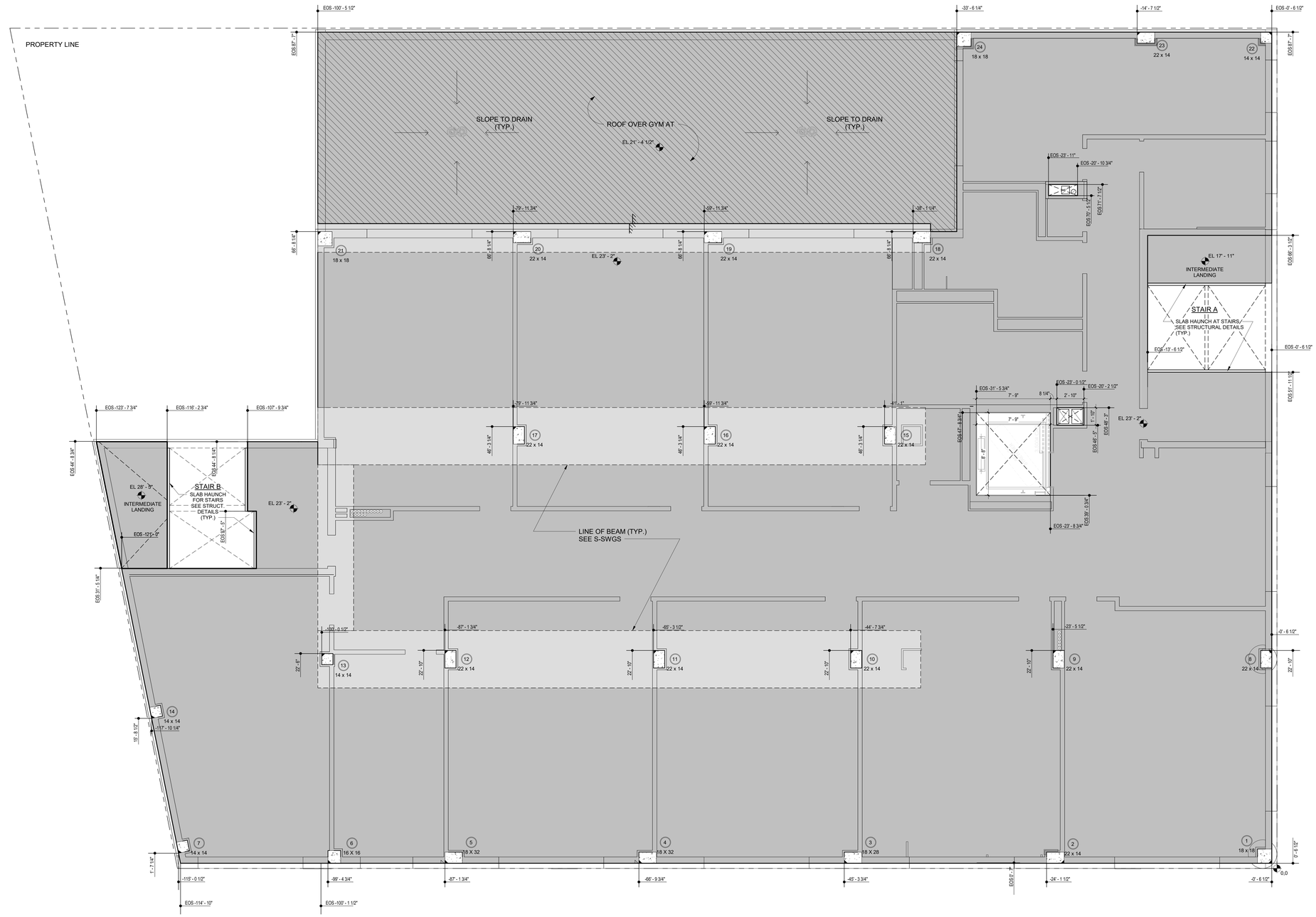
2ND FLOOR (ADMIN) EOS

Seal & Signature:

DATE:	10/08/19
PROJECT #:	1918
DWG SCALE:	1/4" = 1'-0"
DRAWING NO.:	A-802.00

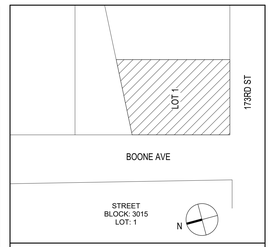
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N

1 EOS 3RD FLR
SCALE: 1/4" = 1'-0"



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NO.	DATE	DESCRIPTION
	10/08/19	90% CD
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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

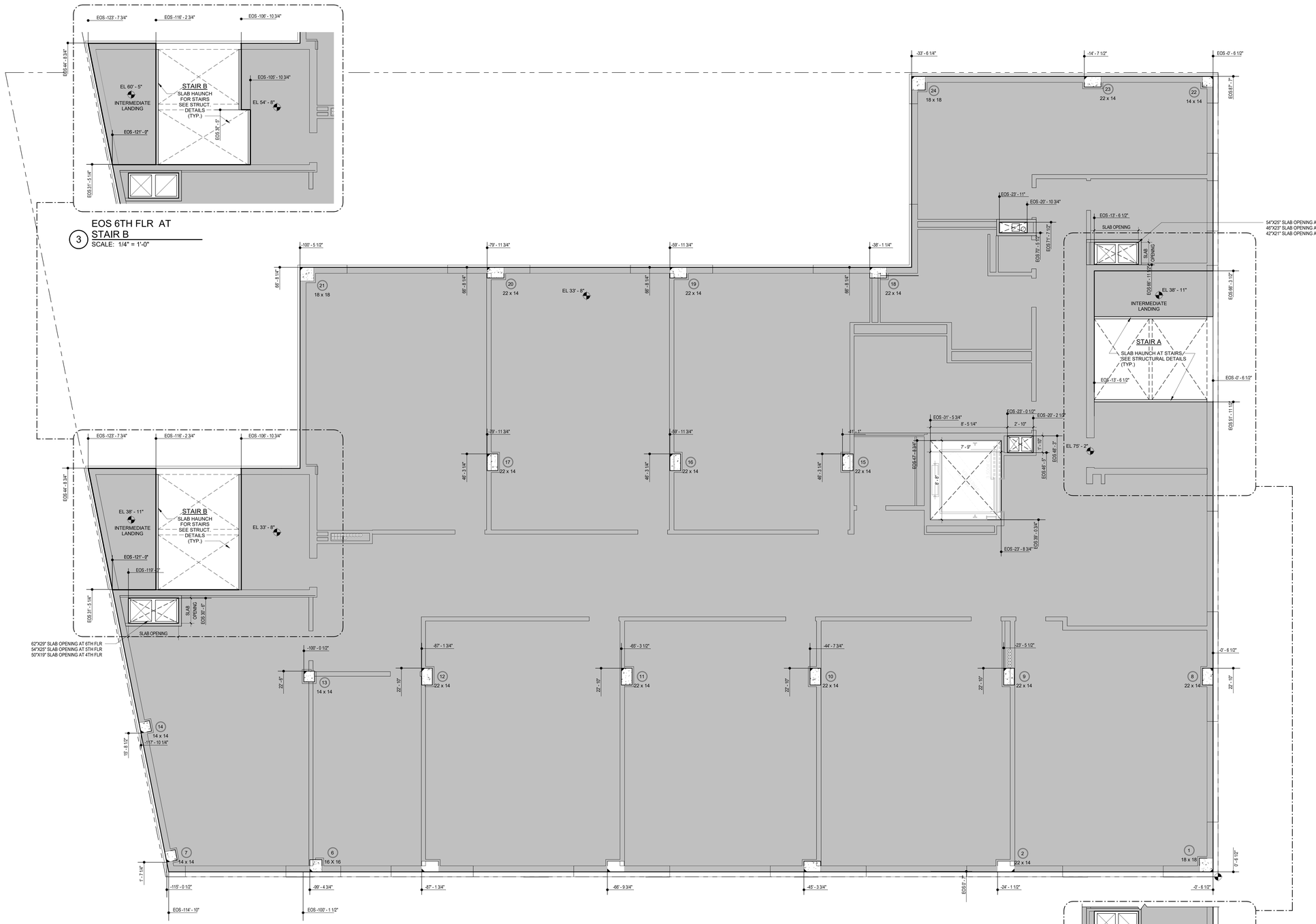
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THIRD FLOOR EOS

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: 1/4" = 1'-0"
DRAWING NO.:
A-803.00

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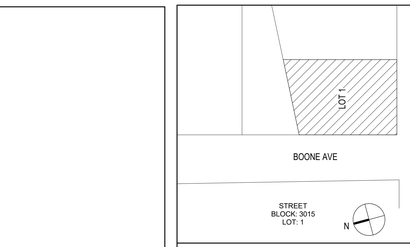


3 EOS 6TH FLR AT STAIR B
SCALE: 1/4" = 1'-0"

N

1 EOS 4TH - 6TH FLR
SCALE: 1/4" = 1'-0"

2 EOS 6TH FLR AT STAIR A
SCALE: 1/4" = 1'-0"



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DOB NB#210180089

PROJECT NAME
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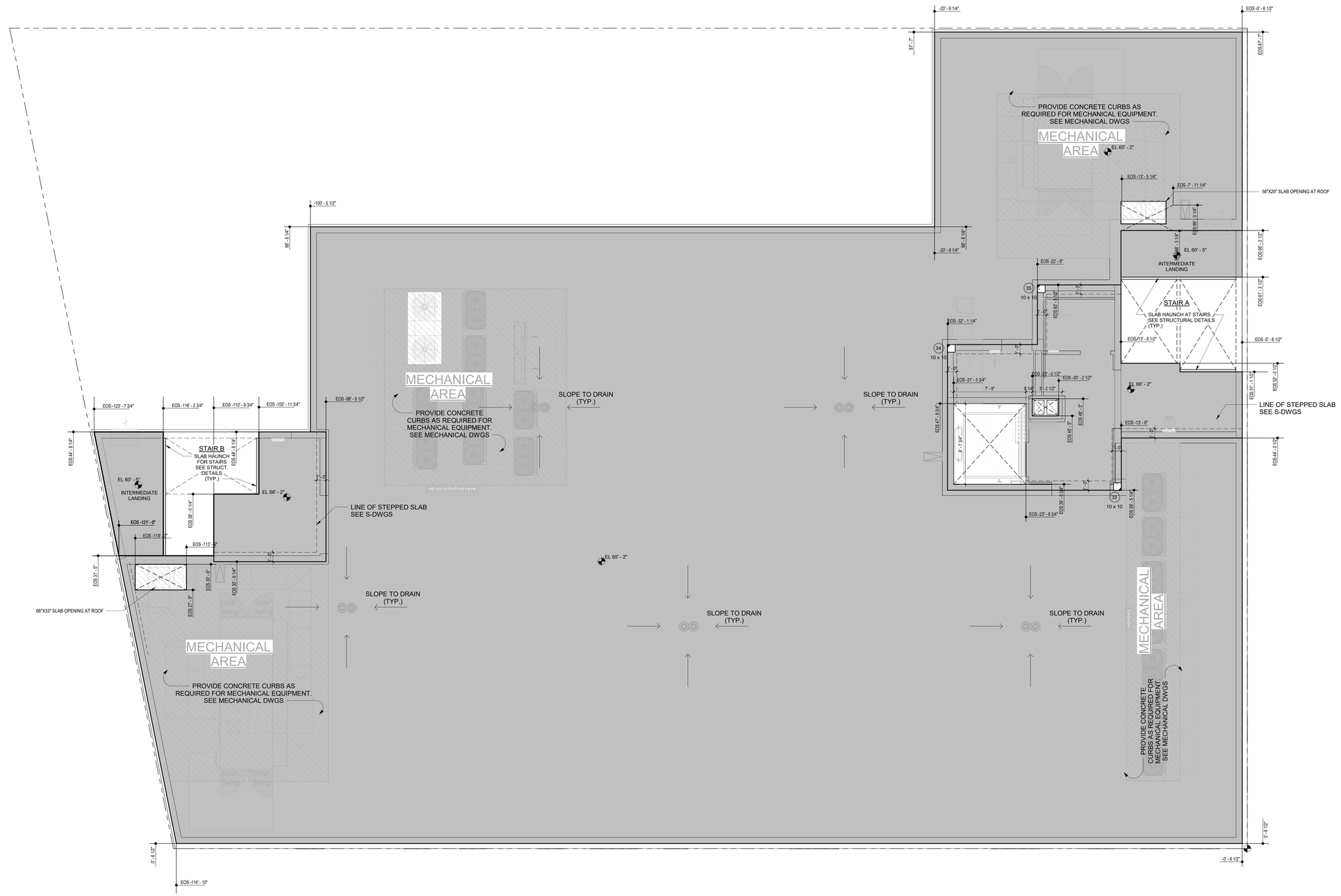
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EOS 4TH - 6TH FLR

Seal & Signature:

DATE:	10/08/19
PROJECT #:	1918
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DRAWING NO.:	A-804.00

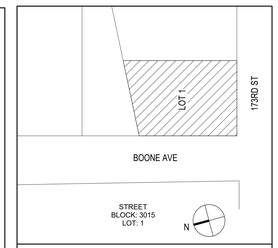
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N

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



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NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET

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DOB NB#210180089

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

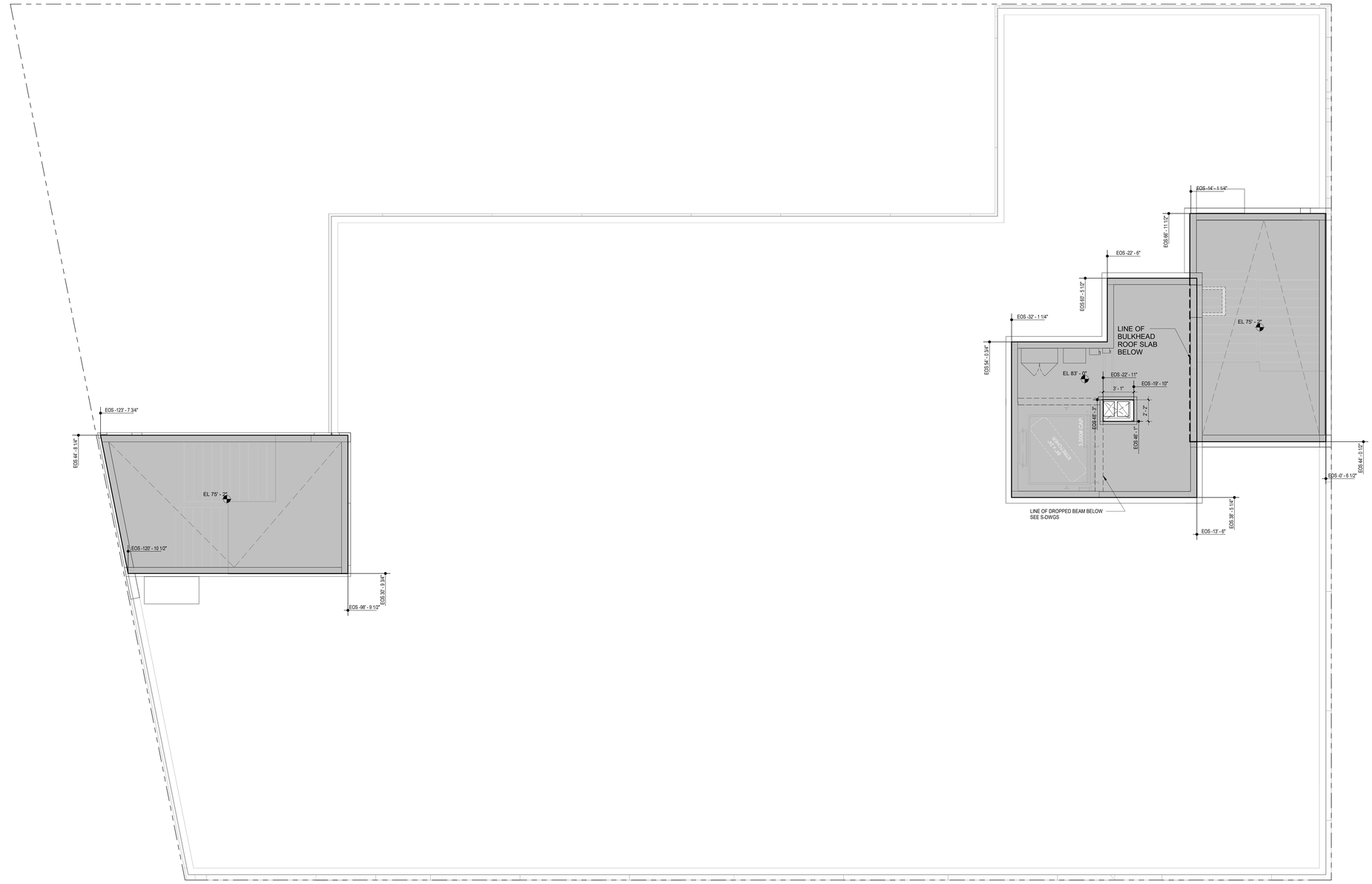
DRAWING TITLE
ROOF EOS

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
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A-805.00

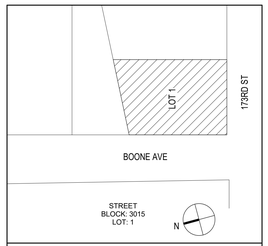
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N

1 EOS EMR/BULKHEAD
SCALE: 1/4" = 1'-0"



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NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET

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DOB NB#210180089

PROJECT NAME
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Bronx, New York 10460

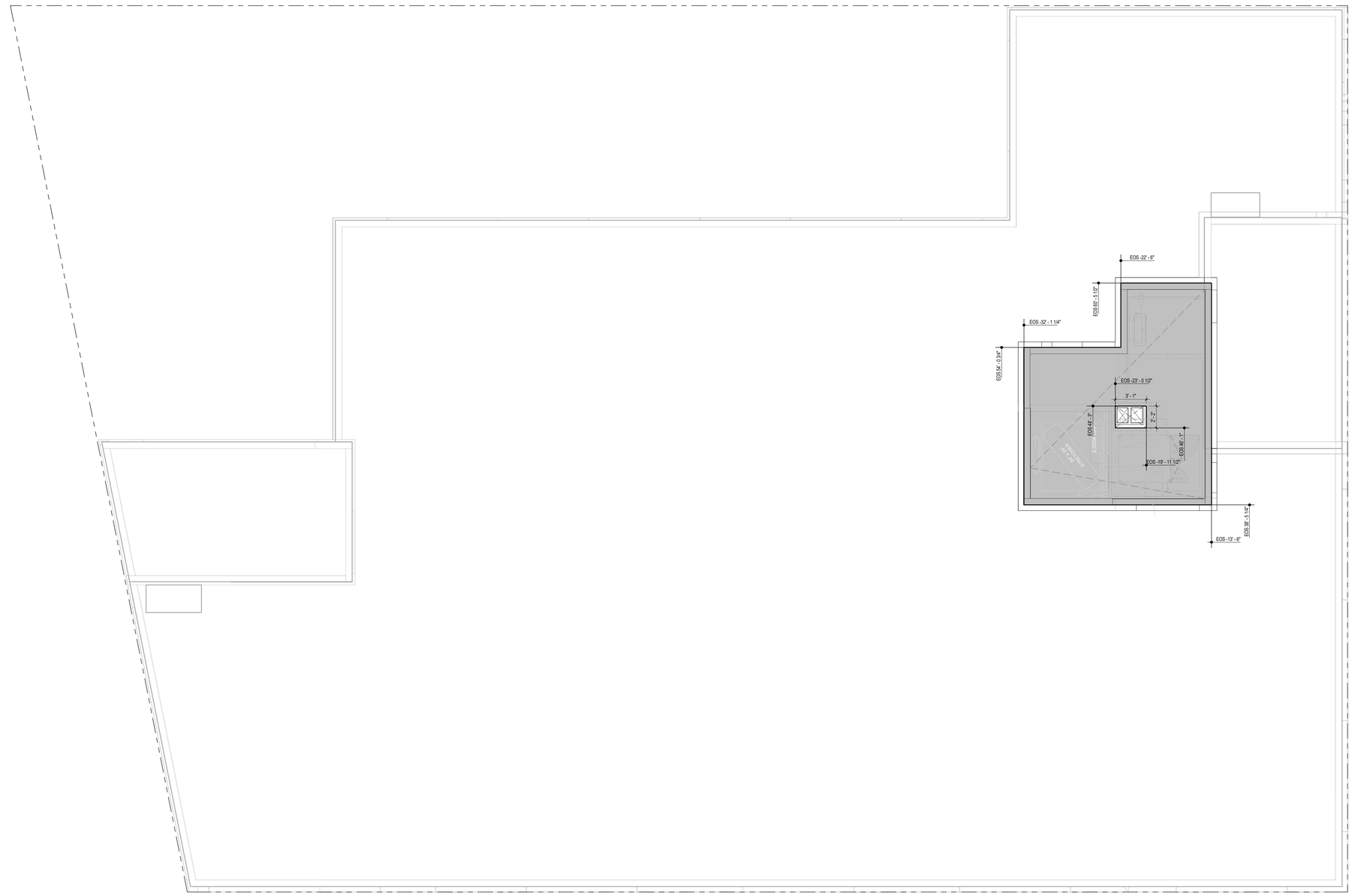
DRAWING TITLE
BULKHEAD EOS

Seal & Signature:

DATE: 10/08/19
PROJECT #: 1918
DWG SCALE: 1/4" = 1'-0"
DRAWING NO.:
A-806.00

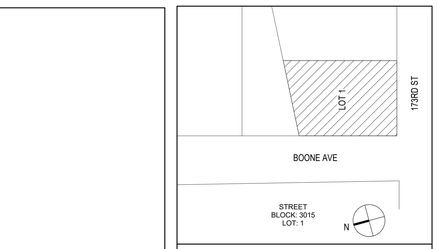
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N

1 EOS ELEVATOR OVERRUN BULKHEAD
SCALE: 1/4" = 1'-0"



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NO.	DATE	DESCRIPTION
	10/08/19	90% CD
	09/23/19	85% PROGRESS SET

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PROJECT NAME
1660 BOONE AVE
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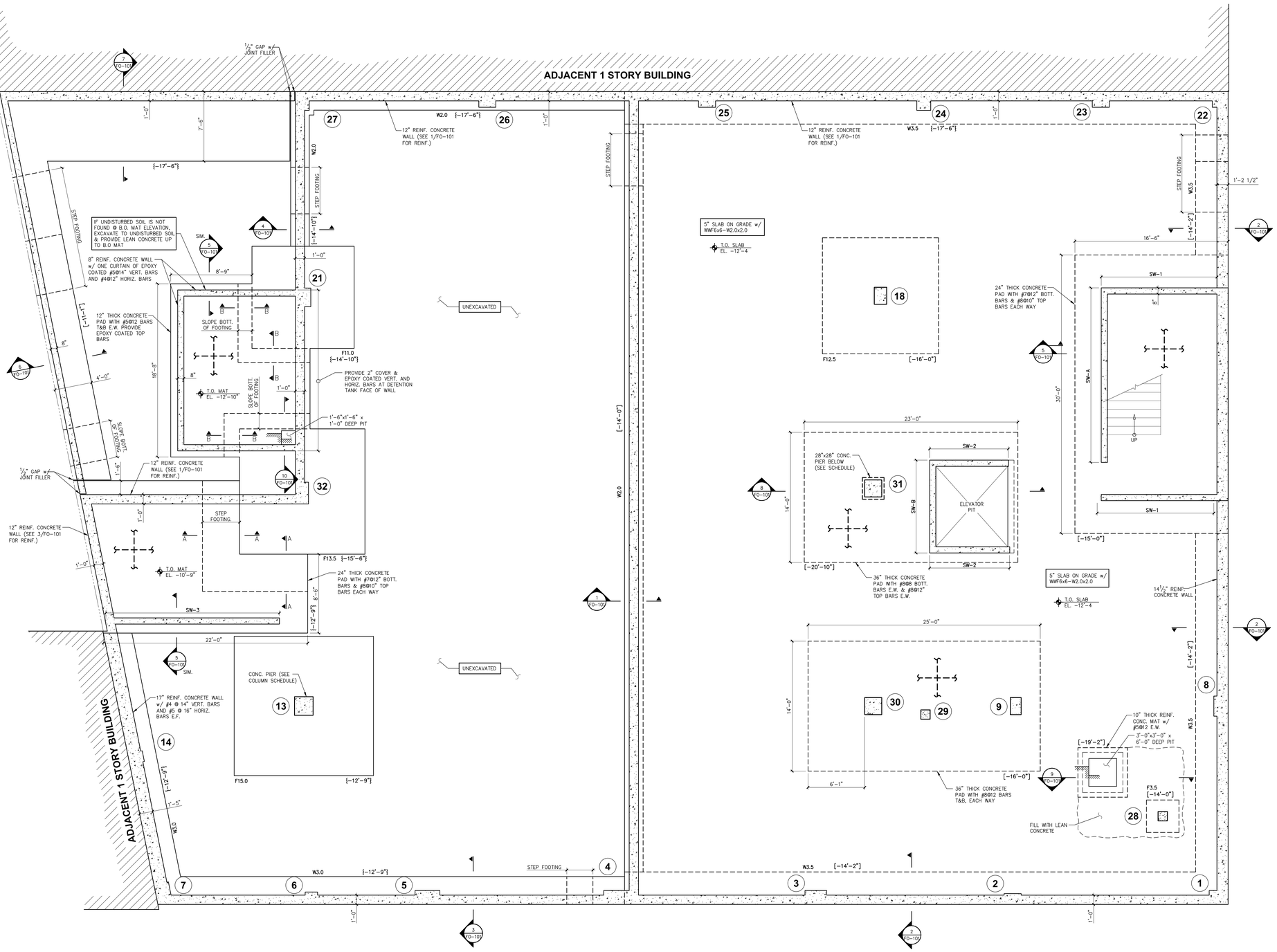
DRAWING TITLE
EMR ROOF EOS

Seal & Signature:

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PROJECT #: 1918
DWG SCALE: 1/4" = 1'-0"
DRAWING NO.:
A-807.00

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B.O. MAT SEE PLAN
1 1/2
2'-0"
B.O. FOOTING SEE PLAN

SECTION A-A

T.O. MAT SEE PLAN
1
1
B.O. FOOTING SEE PLAN

SECTION B-B

WALL FOOTING SCHEDULE

MARK	SIZE "W" x "D"	REINF.
W2.0	2'-0" x 12"	2#5 LONG. BARS #5@12 SHORT BARS
W3.0	3'-0" x 12"	3#5 LONG. BARS #6@14 SHORT BARS
W3.5	3'-6" x 14"	4#5 LONG. BARS #6@12 SHORT BARS

COLUMN FOOTING SCHEDULE

MARK	SIZE "W" x "L" x "D"	REINF.
F3.5	3'-6"x3'-6"x 1'-0"	3#5 BARS E.W. (BOTTOM)
F11.0	11'-0"x11'-0"x 2'-0"	11#9 BARS E.W. (BOTTOM)
F12.5	12'-6"x12'-6"x 2'-10"	13#8 BARS E.W. (BOTTOM)
F13.5	13'-6"x13'-6"x 2'-8"	14#9 BARS E.W. (BOTTOM)
F15.0	15'-0"x15'-0"x 3'-0"	15#9 BARS E.W. (BOTTOM)

PLAN NOTES

1. SEE DRAWING S-200 FOR GENERAL NOTES
2. SEE DRAWING FO-101 FOR TYPICAL FOUNDATION DETAILS
3. PROJECT ELEVATION 0'-0" CORRESPONDS TO 30.12' NAVD88

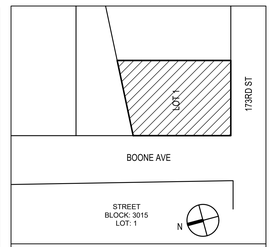
LEGEND

- DENOTES REINFORCED CONCRETE FOUNDATION WALL
- [x'-x"] DENOTES BOTTOM OF FOOTING OR MAT ELEVATION
- {x'-x"} DENOTES APPROXIMATE BOTTOM OF FOOTING OR MAT ELEVATION. ACTUAL ELEVATION TO BE DETERMINED BASED ON SOIL & ADJ. BUILDING CONDITIONS.
- Fx INDICATES FOOTING MARK (SEE FOOTING SCHEDULE ON FO-100)
- Wx.x INDICATES WALL FOOTING (SEE FOOTING SCHEDULE ON FO-100)

FOUNDATION PLAN

SCALE: 1/4"=1'-0"
0 1 2 4 8 FT

PROGRESS PRINT NOT FOR CONSTRUCTION 20-SEP-19



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/28/19	FOUNDATION UPDATE
	08/02/19	DOB FILING / 50% CD

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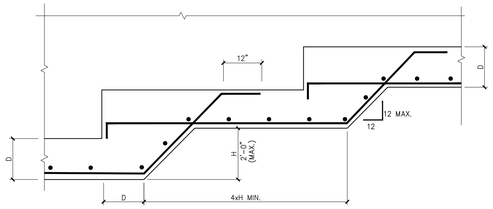
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PROJECT NAME
1660 BOONE AVE.
Bronx, New York 10460

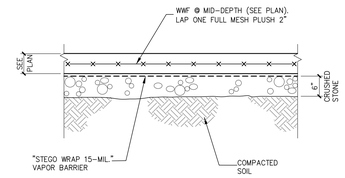
DRAWING TITLE
FOUNDATION PLAN

Seal & Signature:
STATE OF NEW YORK RODNEY D GIBBLE 063244 LICENSED PROFESSIONAL ENGINEER

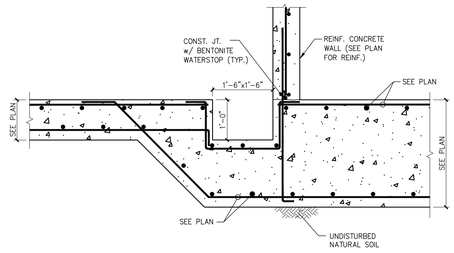
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PROJECT #:	19051
DWG SCALE:	AS NOTED
DRAWING NO.:	FO-100.00
SHEET	01 OF 22



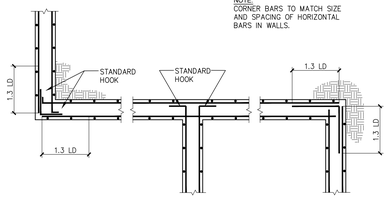
TYPICAL STEPPED WALL FOOTING DETAIL



TYPICAL SLAB ON GRADE DETAIL

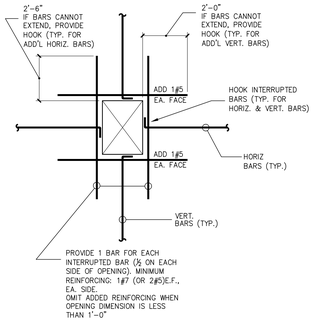


SECTION 10 / FO-101 — 3/4"=1'-0"

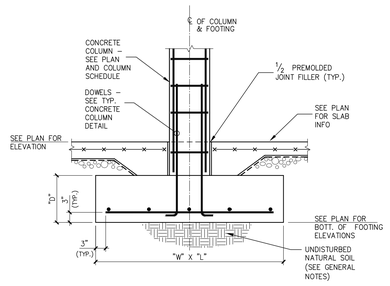


OUTSIDE CORNERS **INTERSECTING WALLS** **INSIDE CORNERS**

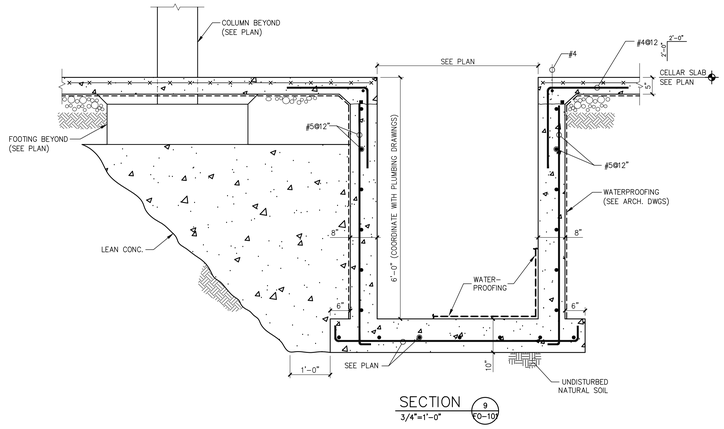
TYPICAL REINFORCING DETAIL AT FOUNDATION WALL CORNERS



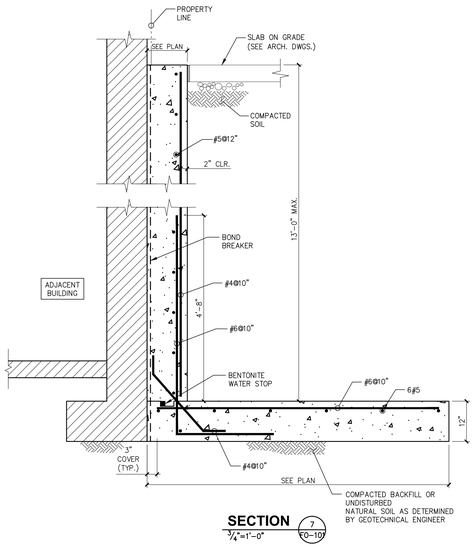
TYPICAL REINFORCING DETAIL AT FOUNDATION WALL OPENING
3'-0" MAXIMUM OPENING WIDTH



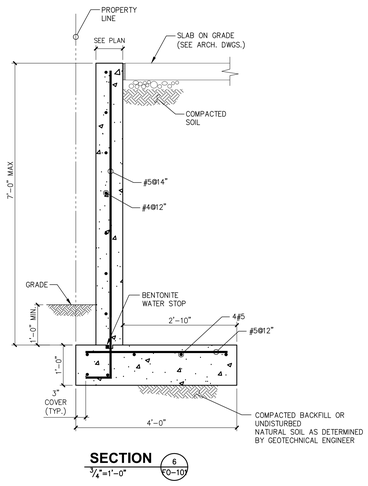
TYPICAL COLUMN FOOTING DETAIL



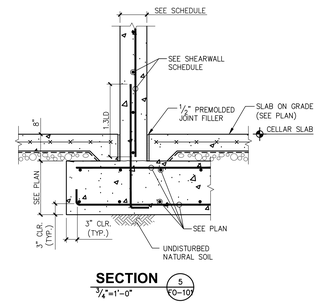
SECTION 9 / FO-101 — 3/4"=1'-0"



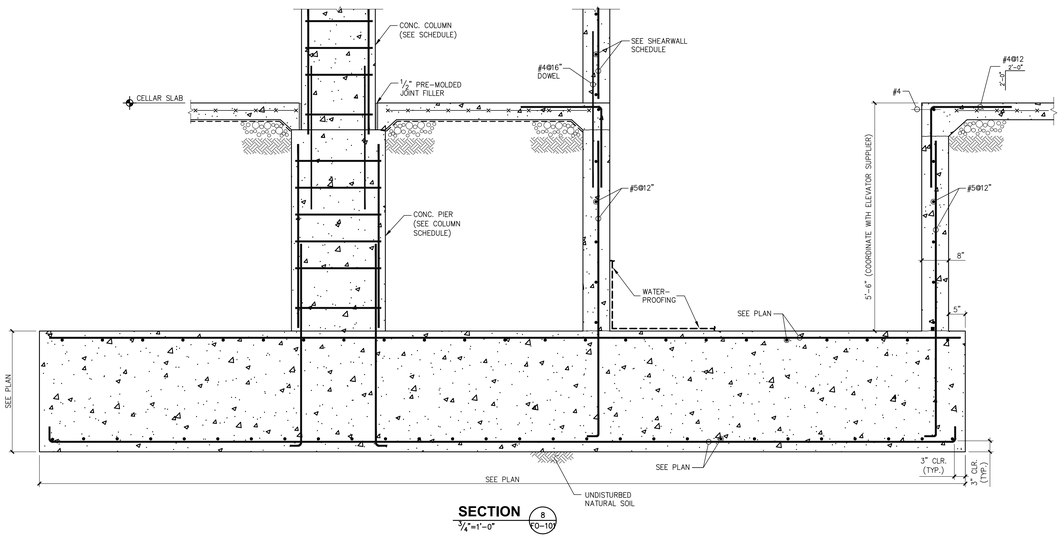
SECTION 7 / FO-101 — 3/4"=1'-0"



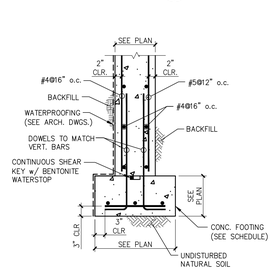
SECTION 6 / FO-101 — 3/4"=1'-0"



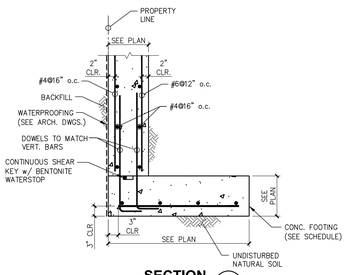
SECTION 5 / FO-101 — 3/4"=1'-0"



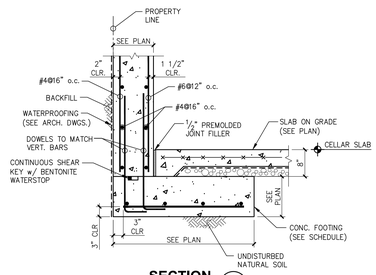
SECTION 8 / FO-101 — 3/4"=1'-0"



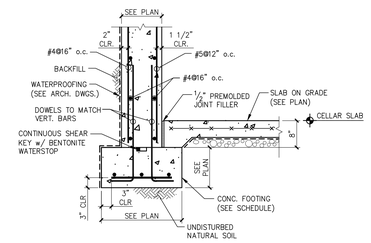
SECTION 4 / FO-101 — 3/4"=1'-0"



SECTION 3 / FO-101 — 3/4"=1'-0"

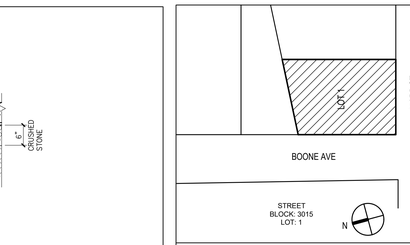


SECTION 2 / FO-101 — 3/4"=1'-0"



SECTION 1 / FO-101 — 3/4"=1'-0"

PROGRESS PRINT NOT FOR CONSTRUCTION 20-SEP-19



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/28/19	FOUNDATION UPDATE
	08/02/19	DOB FILING / 50% CD

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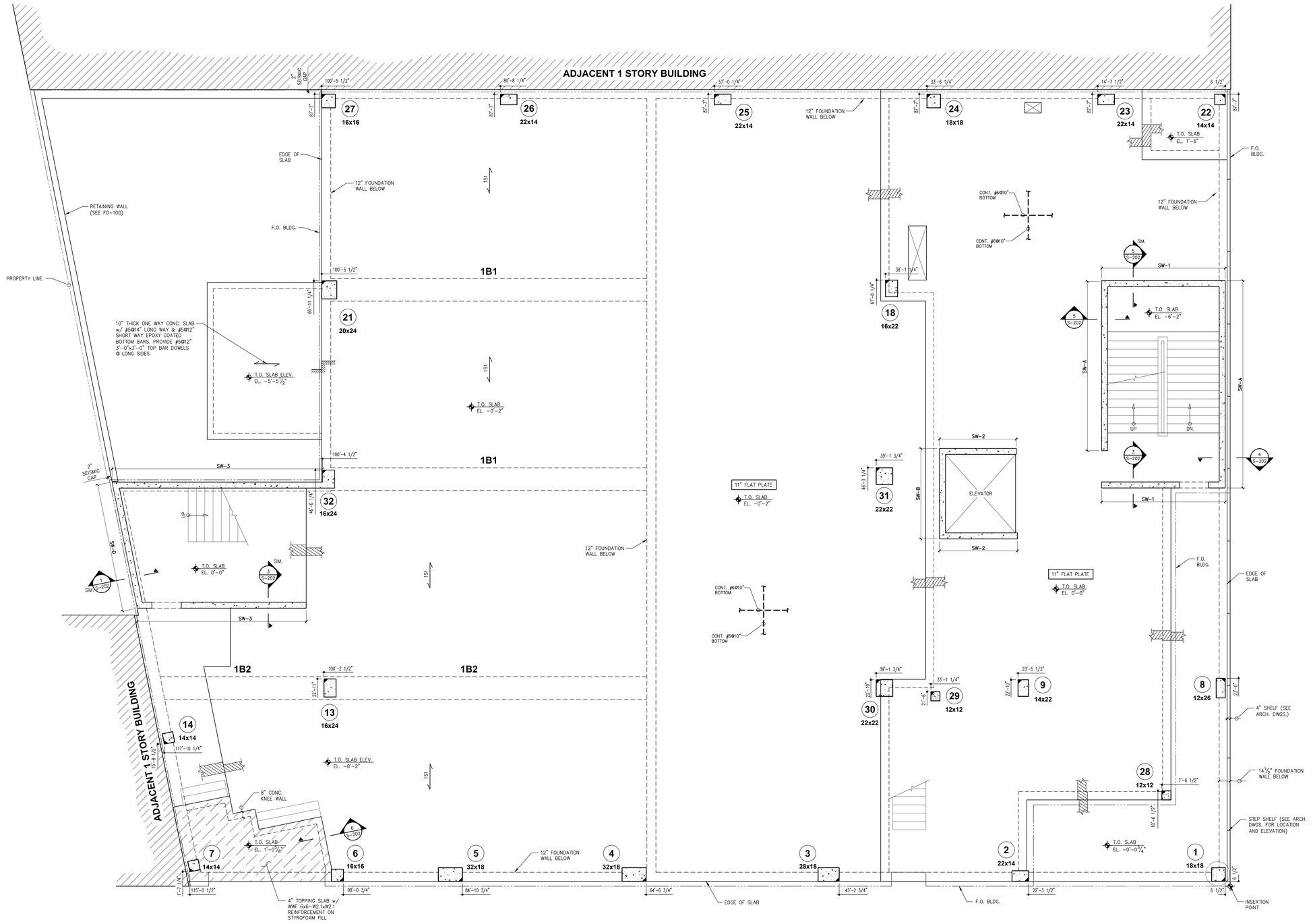
PROJECT NAME
1660 BOONE AVE.
Bronx, New York 10460

DRAWING TITLE
FOUNDATION TYPICAL DETAILS AND SECTIONS

Seal & Signature:



DATE:	08/02/19
PROJECT #:	19051
DWG SCALE:	AS NOTED
DRAWING NO.:	FO-101.00
SHEET	02 OF 22



REINF. SCHEDULE FOR ONE-WAY CONC. SLABS

MARK	THICK.	BOTTOM BARS	TOP BARS LEFT	TOP BARS RIGHT	NOTES AND COMMENTS
1S1	11"	#5@12"	#6@12"	#6@12"	SEE TYPICAL DETAIL ON S-203

CONCRETE BEAM SCHEDULE

MARK	SIZE (W x H)	BOTTOM BARS	TOP BARS CONT.	TOP BARS LEFT	TOP BARS RIGHT	STIRRUPS SIZE	STIRRUPS LEGS	STIRRUPS SPACING	NOTES AND COMMENTS
1B1	30x42	9#9	9#6	–	–	#4	2	@12"	–
1B2	30x42	8#8	6#8	2#8	2#8	#4	2	@12"	–

PLAN NOTES

1. SEE DRAWING S-200 FOR GENERAL NOTES AND DESIGN CRITERIA
2. SEE DRAWING S-201 FOR COLUMN SCHEDULE AND TYPICAL DETAILS
3. SEE DRAWING S-202 FOR SHEAR WALL SCHEDULE AND TYPICAL DETAILS
4. SEE DRAWING S-203 FOR TYPICAL DETAILS

LEGEND

- INDICATES CAST-IN-PLACE CONCRETE
- INDICATES SLAB OPENING (SEE ARCH. DWGS FOR COORDINATION)
- DENOTES REINFORCED CONCRETE COLUMN
- NUMBER OF STUD RAILS
- NUMBER OF STUD PER RAIL
- STUD DIAMETER
- 10x12-½"ø @ 4"O.C. — INDICATES STUD RAIL REINFORCEMENT WITH A YIELD STRENGTH OF 50 KSI (SEE TYPICAL DETAIL ON S-201)
- TYPICAL STUD SPACING

CONT. BAR SIZE @ SPACING (OUTER MOST)
CONT. BAR SIZE @ SPACING (INNER MOST)

BOTTOM MAT REINFORCEMENT

AB – x –

ADDITIONAL BOTTOM BARS

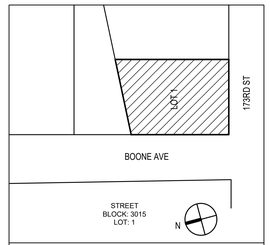
1ST FLOOR FRAMING PLAN
w/ COLUMN GEOMETRY & BOTTOM BARS

SCALE: ⅛"=1'-0"

0 1 2 4 8 FT

SEE DRAWING S-101.00 FOR NORTH-SOUTH TOP BARS
SEE DRAWING S-102.00 FOR EAST-WEST TOP BARS

PROGRESS PRINT 20-SEP-19 NOT FOR CONSTRUCTION



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
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	08/02/19	DOB FILING / 50% CD

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DOB XXXXXX

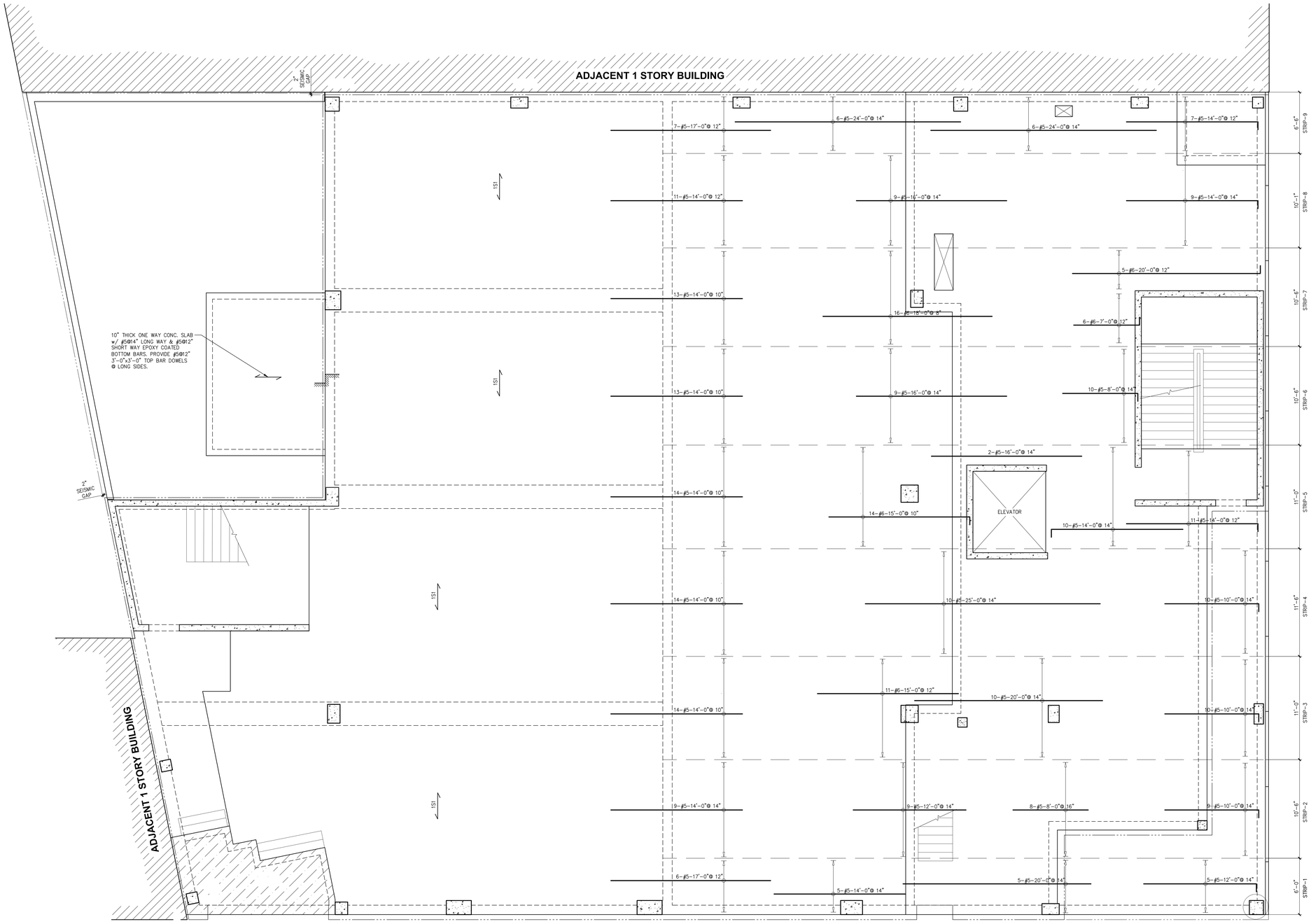
PROJECT NAME
1660 BOONE AVE.
Bronx, New York 10460

DRAWING TITLE
1ST FLOOR FRAMING PLAN
W/ COLUMN GEOMETRY & BOTTOM BARS

Seal & Signature:

STATE OF NEW YORK · RODNEY D. GIBBLE · 032440 · LICENSED PROFESSIONAL ENGINEER

DATE: 08/02/19
PROJECT #: 19051
DWG SCALE: AS NOTED
DRAWING NO.: S-100.00
SHEET 03 OF 22



REINF. SCHEDULE FOR ONE-WAY CONC. SLABS					
MARK	THICK.	BOTTOM BARS	TOP BARS LEFT	TOP BARS RIGHT	NOTES AND COMMENTS
1S1	11"	#5@12"	#6@12"	#6@12"	SEE TYPICAL DETAIL ON S–203

PLAN NOTES

1. SEE DRAWING S–200 FOR GENERAL NOTES AND DESIGN CRITERIA
2. SEE DRAWING S–201 FOR COLUMN SCHEDULE AND TYPICAL DETAILS
3. SEE DRAWING S–202 FOR SHEAR WALL SCHEDULE AND TYPICAL DETAILS
4. SEE DRAWING S–203 FOR TYPICAL DETAILS

LEGEND

- INDICATES CAST–IN–PLACE CONCRETE
- INDICATES SLAB OPENING (SEE ARCH. DWGS FOR COORDINATION)
- DENOTES REINFORCED CONCRETE COLUMN (SEE S–100 FOR LOCATIONS NOT SHOWN)
- 10x12–½"ø @ 4"O.C. — NUMBER OF STUD RAILS; NUMBER OF STUD PER RAIL; STUD DIAMETER; TYPICAL STUD SPACING — INDICATES STUD RAIL REINFORCEMENT WITH A YIELD STRENGTH OF 50 KSI (SEE TYPICAL DETAIL ON S–201)

TOP BARS (OUTER MOST)

TOP BARS NORTH-SOUTH DIRECTION

1ST FLOOR FRAMING PLAN w/ NORTH-SOUTH TOP BARS

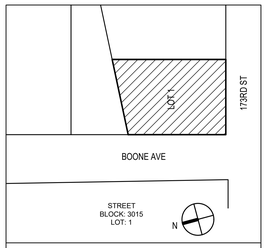
SCALE: ¼"=1'–0"

0 1 2 4 8 FT

SEE DRAWING S–100.00 FOR BOTTOM BARS
SEE DRAWING S–102.00 FOR EAST–WEST TOP BARS

N

PROGRESS PRINT
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20–SEP–19



NO.	DATE	DESCRIPTION
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DOB XXXXXX

PROJECT NAME

1660 BOONE AVE.

Bronx, New York 10460

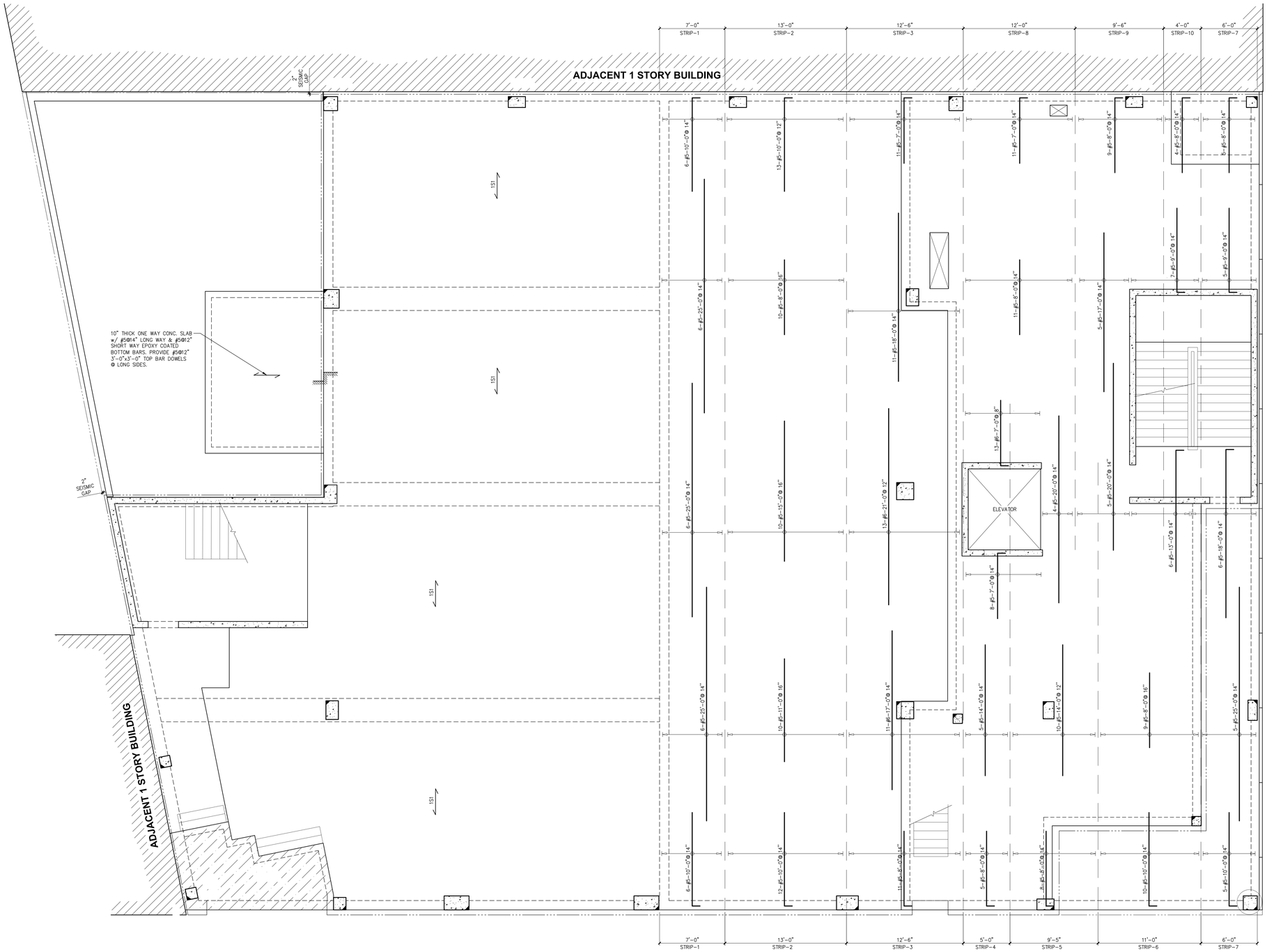
DRAWING TITLE

1ST FLOOR FRAMING PLAN W/ NORTH - SOUTH TOP BARS

Seal & Signature:

STATE OF NEW YORK · RODNEY D. GIBBLE · 043244 · LICENSED PROFESSIONAL ENGINEER

DATE: 08/02/19
PROJECT #: 19051
DWG SCALE: AS NOTED
DRAWING NO.:
S-101.00
SHEET 04 OF 22



REINF. SCHEDULE FOR ONE-WAY CONC. SLABS

MARK	THICK.	BOTTOM BARS	TOP BARS LEFT	TOP BARS RIGHT	NOTES AND COMMENTS
1S1	11"	#5@12"	#6@12"	#6@12"	SEE TYPICAL DETAIL ON S-203

PLAN NOTES

1. SEE DRAWING S-200 FOR GENERAL NOTES AND DESIGN CRITERIA
2. SEE DRAWING S-201 FOR COLUMN SCHEDULE AND TYPICAL DETAILS
3. SEE DRAWING S-202 FOR SHEAR WALL SCHEDULE AND TYPICAL DETAILS
4. SEE DRAWING S-203 FOR TYPICAL DETAILS

LEGEND

- INDICATES CAST-IN-PLACE CONCRETE
- INDICATES SLAB OPENING (SEE ARCH. DWGS FOR COORDINATION)
- DENOTES REINFORCED CONCRETE COLUMN (SEE S-100 FOR LOCATIONS NOT SHOWN)
- NUMBER OF STUD RAILS
- NUMBER OF STUD PER RAIL
- STUD DIAMETER
- 10x12-½"ø @ 4"O.C. — INDICATES STUD RAIL REINFORCEMENT WITH A YIELD STRENGTH OF 50 KSI (SEE TYPICAL DETAIL ON S-201)
- TYPICAL STUD SPACING

TOP BARS (INNER MOST)

TOP BARS EAST-WEST DIRECTION

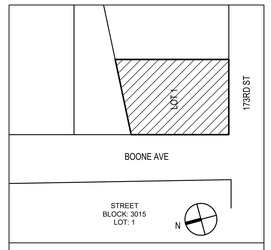
1ST FLOOR FRAMING PLAN w/ EAST-WEST TOP BARS

SCALE: ¼"=1'-0"

0 1 2 4 8 FT

SEE DRAWING S-100.00 FOR BOTTOM BARS
SEE DRAWING S-101.00 FOR NORTH-SOUTH TOP BARS

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NO.	DATE	DESCRIPTION
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	08/02/19	DOB FILING / 50% CD

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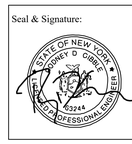
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SIDERIS KEFALAS ENGINEERS, P.C.
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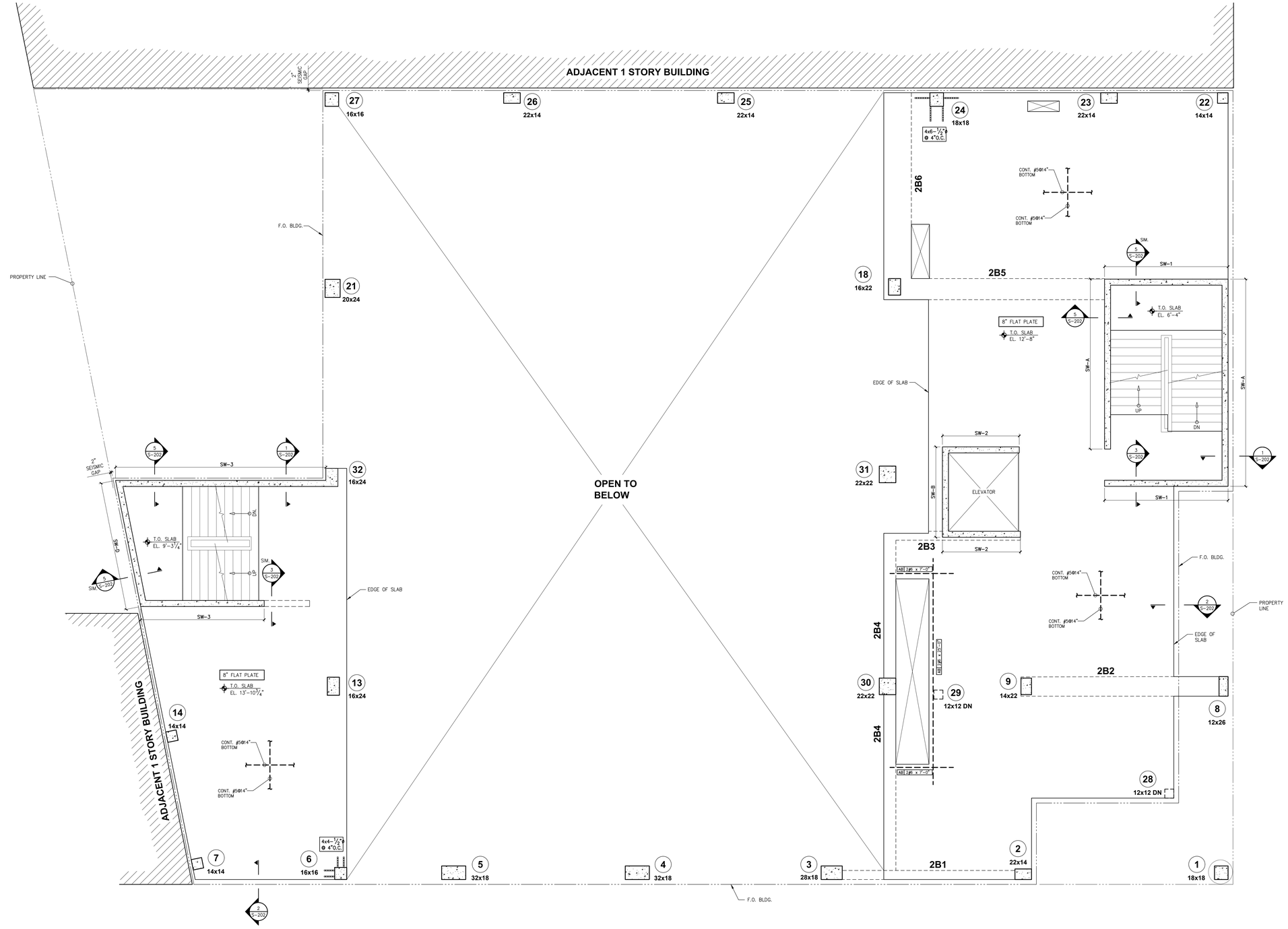
PROJECT NAME
1660 BOONE AVE.
Bronx, New York 10460

DRAWING TITLE
1ST FLOOR FRAMING PLAN W/ EAST-WEST TOP BARS

Seal & Signature:



DATE: 08/02/19
PROJECT #: 19051
DWG SCALE: AS NOTED
DRAWING NO.: S-102.00
SHEET 05 OF 22



PLAN NOTES

1. SEE DRAWING S–200 FOR GENERAL NOTES AND DESIGN CRITERIA
2. SEE DRAWING S–201 FOR COLUMN SCHEDULE AND TYPICAL DETAILS
3. SEE DRAWING S–202 FOR SHEAR WALL SCHEDULE AND TYPICAL DETAILS
4. SEE DRAWING S–203 FOR TYPICAL DETAILS

LEGEND

- INDICATES CAST–IN–PLACE CONCRETE
- INDICATES SLAB OPENING (SEE ARCH. DWGS FOR COORDINATION)
- DENOTES REINFORCED CONCRETE COLUMN (SEE S–100 FOR LOCATIONS NOT SHOWN)
- NUMBER OF STUD RAILS
- NUMBER OF STUD PER RAIL
- STUD DIAMETER
- 10x12–½" ø @ 4"O.C. — INDICATES STUD RAIL REINFORCEMENT WITH A YIELD STRENGTH OF 50 KSI (SEE TYPICAL DETAIL ON S–201)
- TYPICAL STUD SPACING

CONT. BAR SIZE @ SPACING (OUTER MOST)
CONT. BAR SIZE @ SPACING (INNER MOST)

BOTTOM MAT REINFORCEMENT

ABT — x –

ADDITIONAL BOTTOM BARS

CONCRETE BEAM SCHEDULE

MARK	SIZE (W x H)	BOTTOM BARS	TOP BARS CONT.	TOP BARS LEFT	TOP BARS RIGHT	STIRRUPS SIZE	STIRRUPS LEGS	STIRRUPS SPACING	NOTES
2B1	12x16	2#8	2#8	–	–	#4	2	@6"	–
2B2	26x16	4#6	4#6	–	–	#4	2	@6"	–
2B3	12x12	2#6	2#6	–	–	#4	2	@6"	–
2B4	16x14	3#6	3#6	–	–	#4	2	@6"	–
2B5	28x16	4#8	4#6	–	–	#4	2	@6"	–
2B6	37x16	6#6	6#6	–	–	#4	2	@6"	–

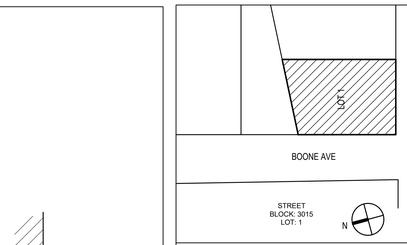
2ND FLOOR FRAMING PLAN w/ COLUMN GEOMETRY & BOTTOM BARS

SCALE: ¼"=1'–0"

0 1 2 4 8 FT

SEE DRAWING S–104.00 FOR NORTH–SOUTH TOP BARS
SEE DRAWING S–105.00 FOR EAST–WEST TOP BARS

PROGRESS PRINT NOT FOR CONSTRUCTION 20–SEP–19



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/28/19	FOUNDATION UPDATE
	08/02/19	DOB FILING / 50% CD

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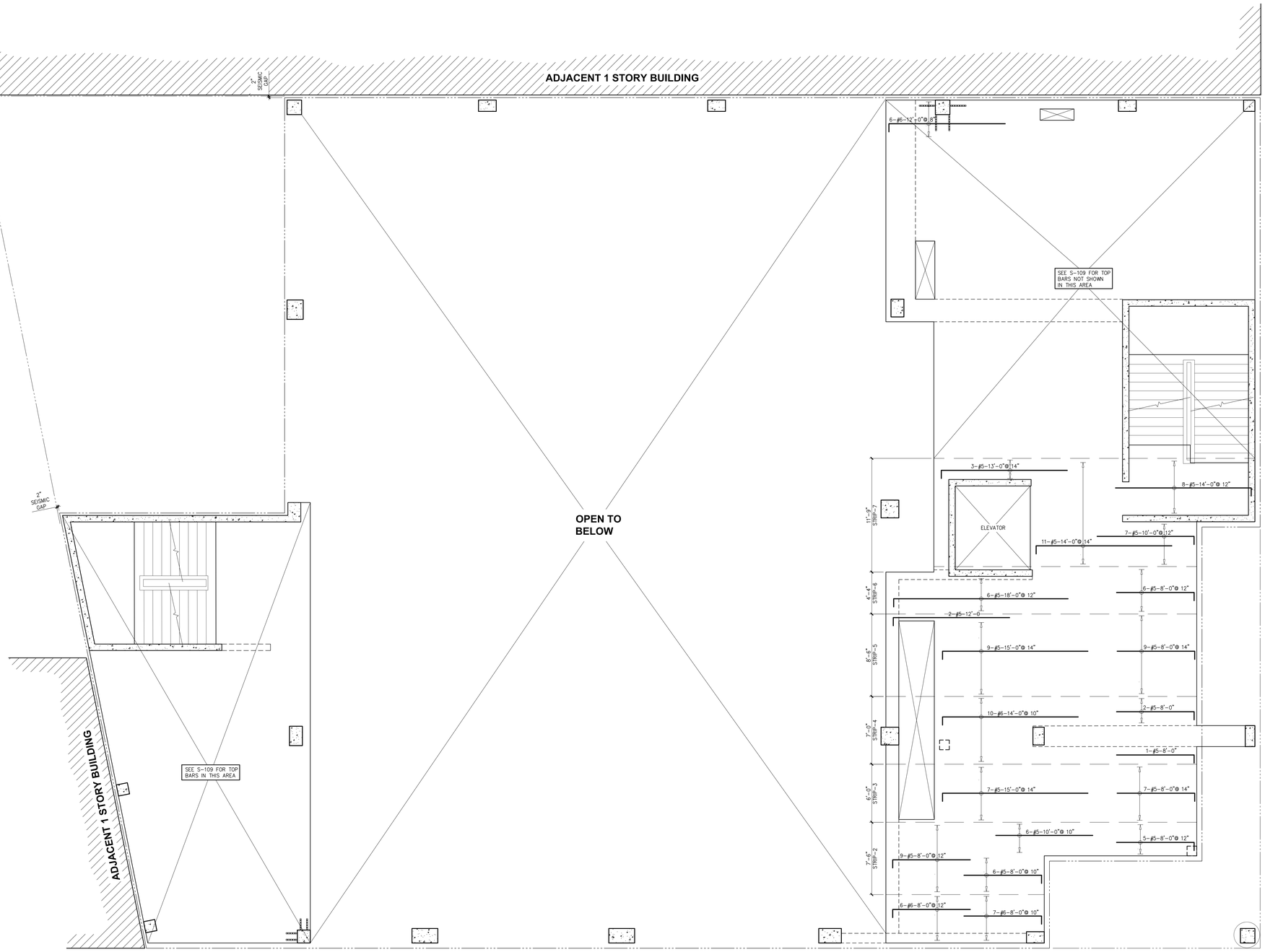
PROJECT NAME
1660 BOONE AVE.
Bronx, New York 10460

DRAWING TITLE
2ND FLOOR FRAMING PLAN W/ COLUMN GEOMETRY & BOTTOM BARS

Seal & Signature:

STATE OF NEW YORK · RODNEY D GIBBLE · 032442 · PROFESSIONAL ENGINEER

DATE: 08/02/19
PROJECT #: 19051
DWG SCALE: AS NOTED
DRAWING NO.: S-103.00
SHEET 06 OF 22



PLAN NOTES

1. SEE DRAWING S-200 FOR GENERAL NOTES AND DESIGN CRITERIA
2. SEE DRAWING S-201 FOR COLUMN SCHEDULE AND TYPICAL DETAILS
3. SEE DRAWING S-202 FOR SHEAR WALL SCHEDULE AND TYPICAL DETAILS
4. SEE DRAWING S-203 FOR TYPICAL DETAILS

LEGEND

INDICATES CAST-IN-PLACE CONCRETE

INDICATES SLAB OPENING (SEE ARCH. DWGS FOR COORDINATION)

DENOTES REINFORCED CONCRETE COLUMN (SEE S-100 FOR LOCATIONS NOT SHOWN)

NUMBER OF STUD RAILS
NUMBER OF STUD PER RAIL
STUD DIAMETER
10x12-1/2"ø @ 4"O.C. — INDICATES STUD RAIL REINFORCEMENT WITH A YIELD STRENGTH OF 50 KSI (SEE TYPICAL DETAIL ON S-201)
TYPICAL STUD SPACING

TOP BARS (OUTER MOST)

TOP BARS NORTH-SOUTH DIRECTION

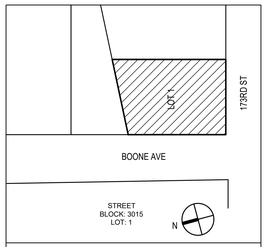
2ND FLOOR FRAMING PLAN w/ NORTH-SOUTH TOP BARS

SCALE: 1/4"=1'-0"
SEE DRAWING S-103.00 FOR BOTTOM BARS
SEE DRAWING S-105.00 FOR EAST-WEST TOP BARS

0 1 2 4 8 FT

N

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20-SEP-19



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	08/02/19	DOB FILING / 50% CD

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DOB XXXXXX

PROJECT NAME

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Bronx, New York 10460

DRAWING TITLE

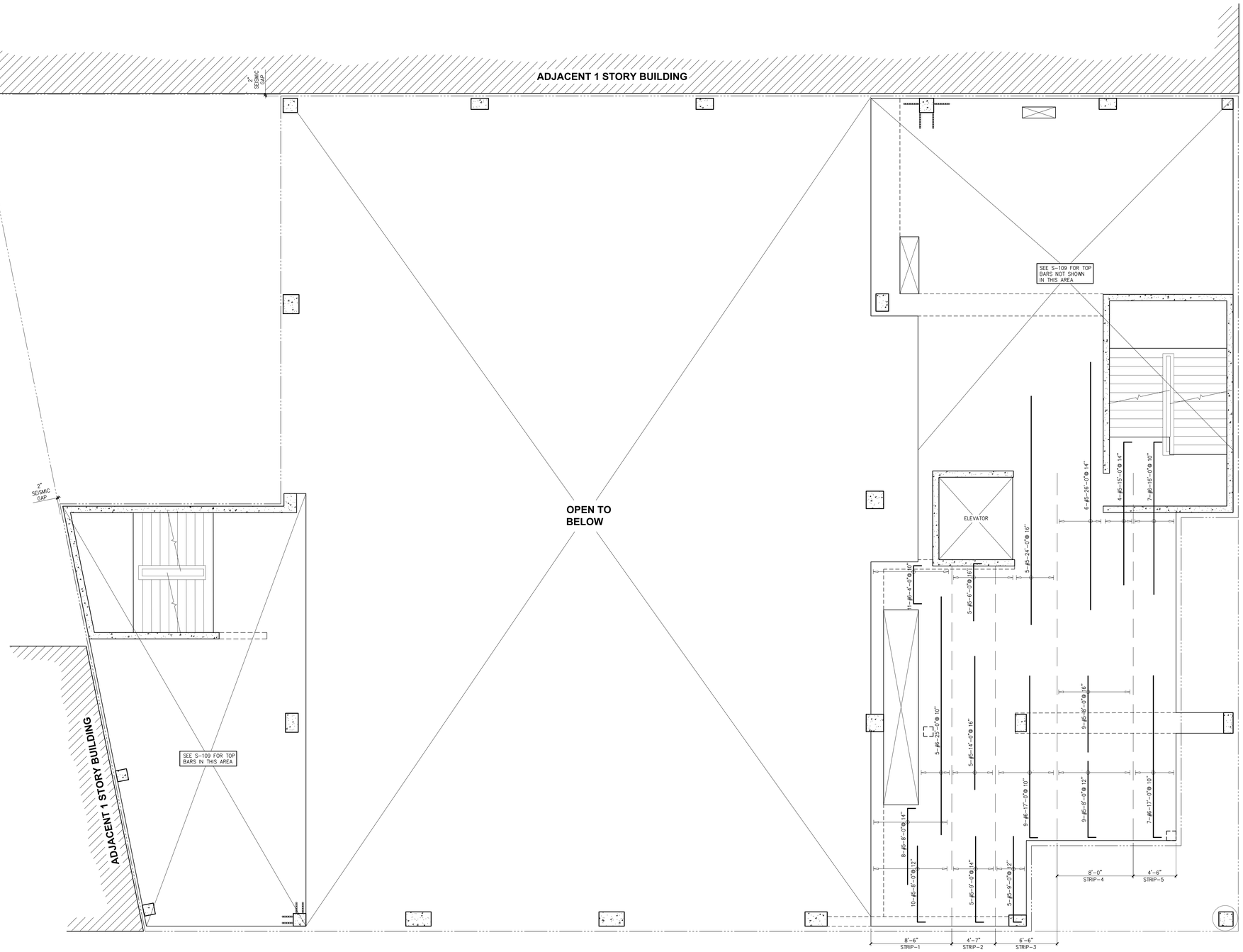
2ND FLOOR FRAMING PLAN
W/ NORTH - SOUTH TOP BARS

Seal & Signature:

STATE OF NEW YORK · RODNEY D GIBBLE · 053247 · LICENSED PROFESSIONAL ENGINEER

DATE:	08/02/19
PROJECT #:	19051
DWG SCALE:	AS NOTED
DRAWING NO.:	S-104.00

SHEET 07 OF 22



PLAN NOTES

1. SEE DRAWING S-200 FOR GENERAL NOTES AND DESIGN CRITERIA
2. SEE DRAWING S-201 FOR COLUMN SCHEDULE AND TYPICAL DETAILS
3. SEE DRAWING S-202 FOR SHEAR WALL SCHEDULE AND TYPICAL DETAILS
4. SEE DRAWING S-203 FOR TYPICAL DETAILS

LEGEND

INDICATES CAST-IN-PLACE CONCRETE

INDICATES SLAB OPENING (SEE ARCH. DWGS FOR COORDINATION)

DENOTES REINFORCED CONCRETE COLUMN (SEE S-100 FOR LOCATIONS NOT SHOWN)

NUMBER OF STUD RAILS
NUMBER OF STUD PER RAIL
STUD DIAMETER
10x12-½"ø @ 4"O.C.
TYPICAL STUD SPACING

INDICATES STUD RAIL REINFORCEMENT WITH A YIELD STRENGTH OF 50 KSI (SEE TYPICAL DETAIL ON S-201)

TOP BARS (INNER MOST)

TOP BARS EAST-WEST DIRECTION

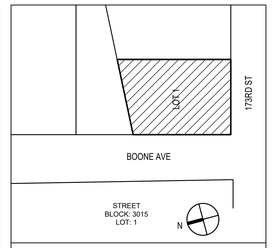
2ND FLOOR FRAMING PLAN w/ EAST-WEST TOP BARS

SCALE: ¼"=1'-0"

SEE DRAWING S-103.00 FOR BOTTOM BARS
SEE DRAWING S-104.00 FOR NORTH-SOUTH TOP BARS

0 1 2 4 8 FT

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	09/20/19	90% CD
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	08/02/19	DOB FILING / 50% CD

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DOB XXXXXX

PROJECT NAME

1660 BOONE AVE.

Bronx, New York 10460

DRAWING TITLE

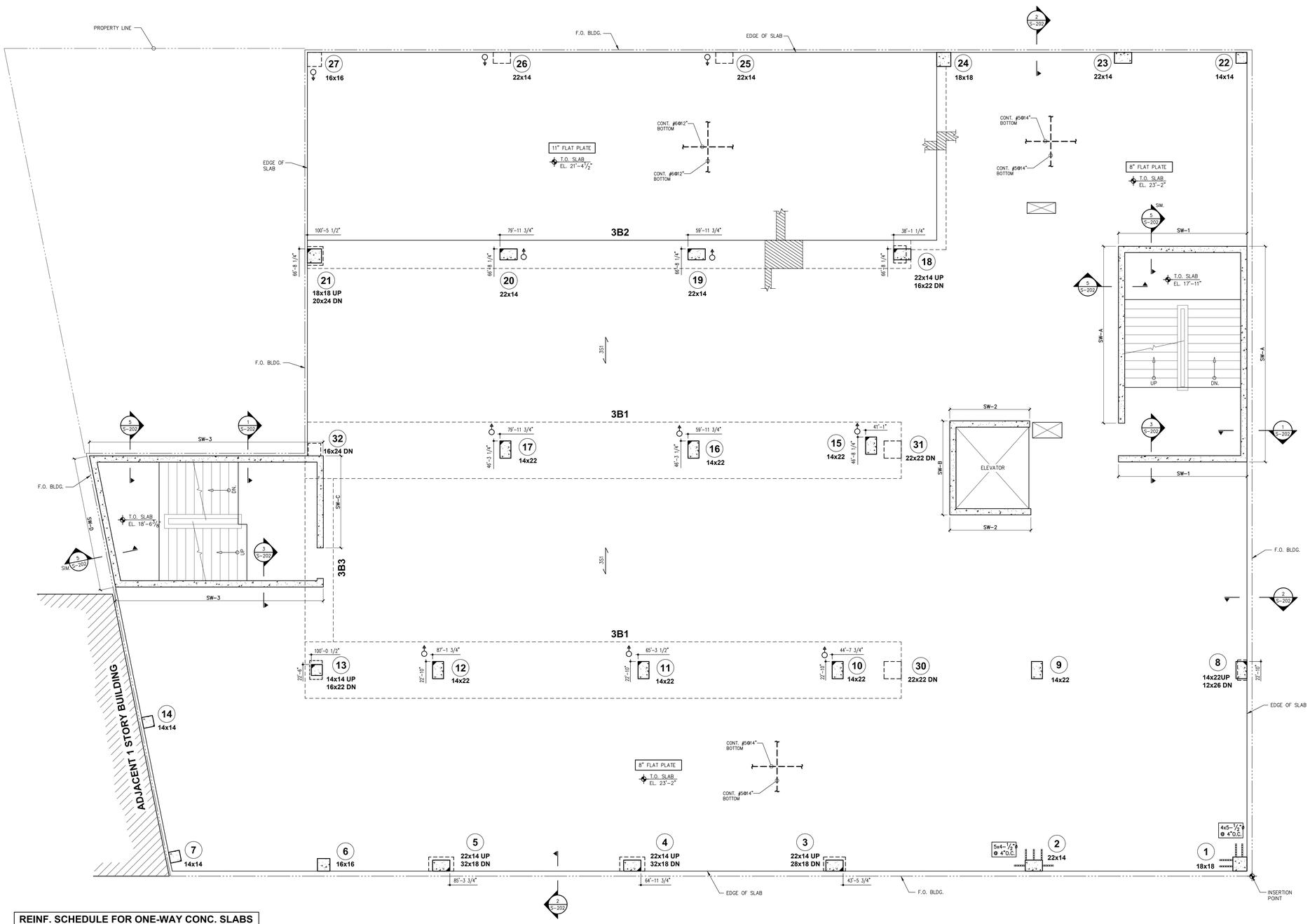
2ND FLOOR FRAMING PLAN W/ EAST- WEST TOP BARS

Seal & Signature:

STATE OF NEW YORK · RODNEY D. GIBBLE · 083244 · LICENSED PROFESSIONAL ENGINEER

DATE:	08/02/19
PROJECT #:	19051
DWG SCALE:	AS NOTED
DRAWING NO.:	S-105.00

SHEET 08 OF 22



REINF. SCHEDULE FOR ONE-WAY CONC. SLABS

MARK	THICK.	BOTTOM BARS	TOP BARS LEFT	TOP BARS RIGHT	NOTES AND COMMENTS
3S1	8"	#6@12"	#6@10"	#6@10"	SEE TYPICAL DETAIL ON S-203

CONCRETE BEAM SCHEDULE

MARK	SIZE (W x H)	BOTTOM BARS	TOP BARS CONT.	TOP BARS LEFT	TOP BARS RIGHT	STIRRUPS SIZE	STIRRUPS LEGS	STIRRUPS SPACING	NOTES AND COMMENTS
3B1	72x60	52#10 (2 LAYERS)	26#10	–	–	#4	4	6@4" @ ENDS, BAL. @12"	–
3B2	36x60	14#10 (2 LAYERS)	14#10	–	–	#4	4	6" @ ENDS, BAL. @12"	–
3B3	30x36	6#8	6#8	–	–	#4	2	@12"	–

NOTE
PROVIDE SHORING FOR THE BEAMS AT THIS FLOOR FOR MINIMUM 56 DAYS AFTER THE CONCRETE WAS POURED. SHORING TO EXTEND DOWN TO MAT FOOTING.

PLAN NOTES

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2. SEE DRAWING S-201 FOR COLUMN SCHEDULE AND TYPICAL DETAILS
3. SEE DRAWING S-202 FOR SHEAR WALL SCHEDULE AND TYPICAL DETAILS
4. SEE DRAWING S-203 FOR TYPICAL DETAILS

LEGEND

- INDICATES CAST-IN-PLACE CONCRETE
- INDICATES SLAB OPENING (SEE ARCH. DWGS FOR COORDINATION)
- DENOTES REINFORCED CONCRETE COLUMN (SEE S-100 FOR LOCATIONS NOT SHOWN)
- NUMBER OF STUD RAILS
- NUMBER OF STUD PER RAIL
- STUD DIAMETER
- 10x12-1/2" @ 4"O.C. — INDICATES STUD RAIL REINFORCEMENT WITH A YIELD STRENGTH OF 50 KSI (SEE TYPICAL DETAIL ON S-201)
- TYPICAL STUD SPACING
- CONT. BAR SIZE @ SPACING (OUTER MOST)
- CONT. BAR SIZE @ SPACING (INNER MOST)

BOTTOM MAT REINFORCEMENT

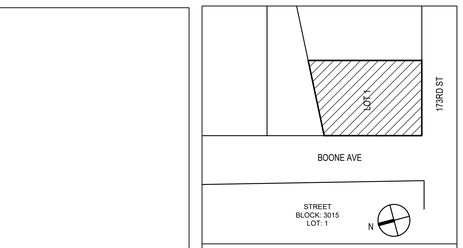
ADDITIONAL BOTTOM BARS

3RD FLOOR FRAMING PLAN w/ COLUMN GEOMETRY & BOTTOM BARS

SCALE: 1/4"=1'-0" (0 1 2 4 8 FT)

SEE DRAWING S-107.00 FOR NORTH-SOUTH TOP BARS
SEE DRAWING S-108.00 FOR EAST-WEST TOP BARS

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DOB XXXXXX

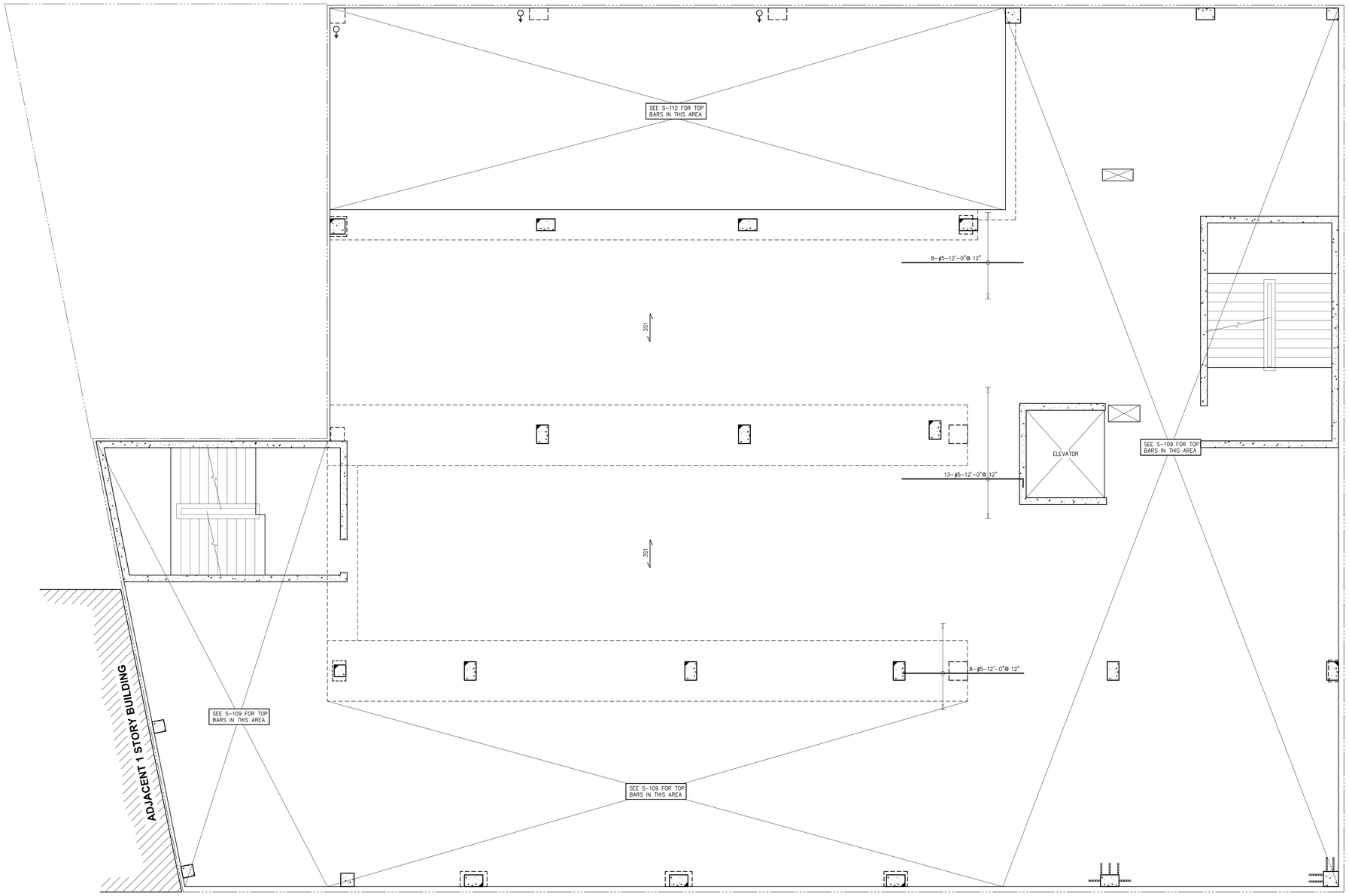
PROJECT NAME
1660 BOONE AVE.
Bronx, New York 10460

DRAWING TITLE
3RD FLOOR FRAMING PLAN W/ COLUMN GEOMETRY & BOTTOM BARS

Seal & Signature:



DATE:	08/02/19
PROJECT #:	19051
DWG SCALE:	AS NOTED
DRAWING NO.:	S-106.00
SHEET	09 OF 22



REINF. SCHEDULE FOR ONE-WAY CONC. SLABS

MARK	THICK.	BOTTOM BARS	TOP BARS LEFT	TOP BARS RIGHT	NOTES AND COMMENTS
JS1	8"	#5@12"	#5@10"	#5@10"	SEE TYPICAL DETAIL ON S-203

PLAN NOTES

1. SEE DRAWING S-200 FOR GENERAL NOTES AND DESIGN CRITERIA
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4. SEE DRAWING S-203 FOR TYPICAL DETAILS

LEGEND

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- TYPICAL STUD SPACING

TOP BARS (OUTER MOST)

TOP BARS NORTH-SOUTH DIRECTION

3RD FLOOR FRAMING PLAN w/ NORTH-SOUTH TOP BARS

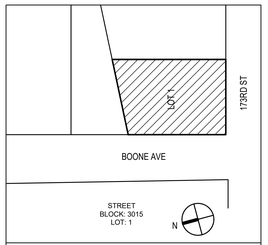
SCALE: ¼"=1'-0"

SEE DRAWING S-106.00 FOR BOTTOM BARS
SEE DRAWING S-108.00 FOR EAST-WEST TOP BARS

0 1 2 4 8 FT

N

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PROJECT NAME

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Bronx, New York 10460

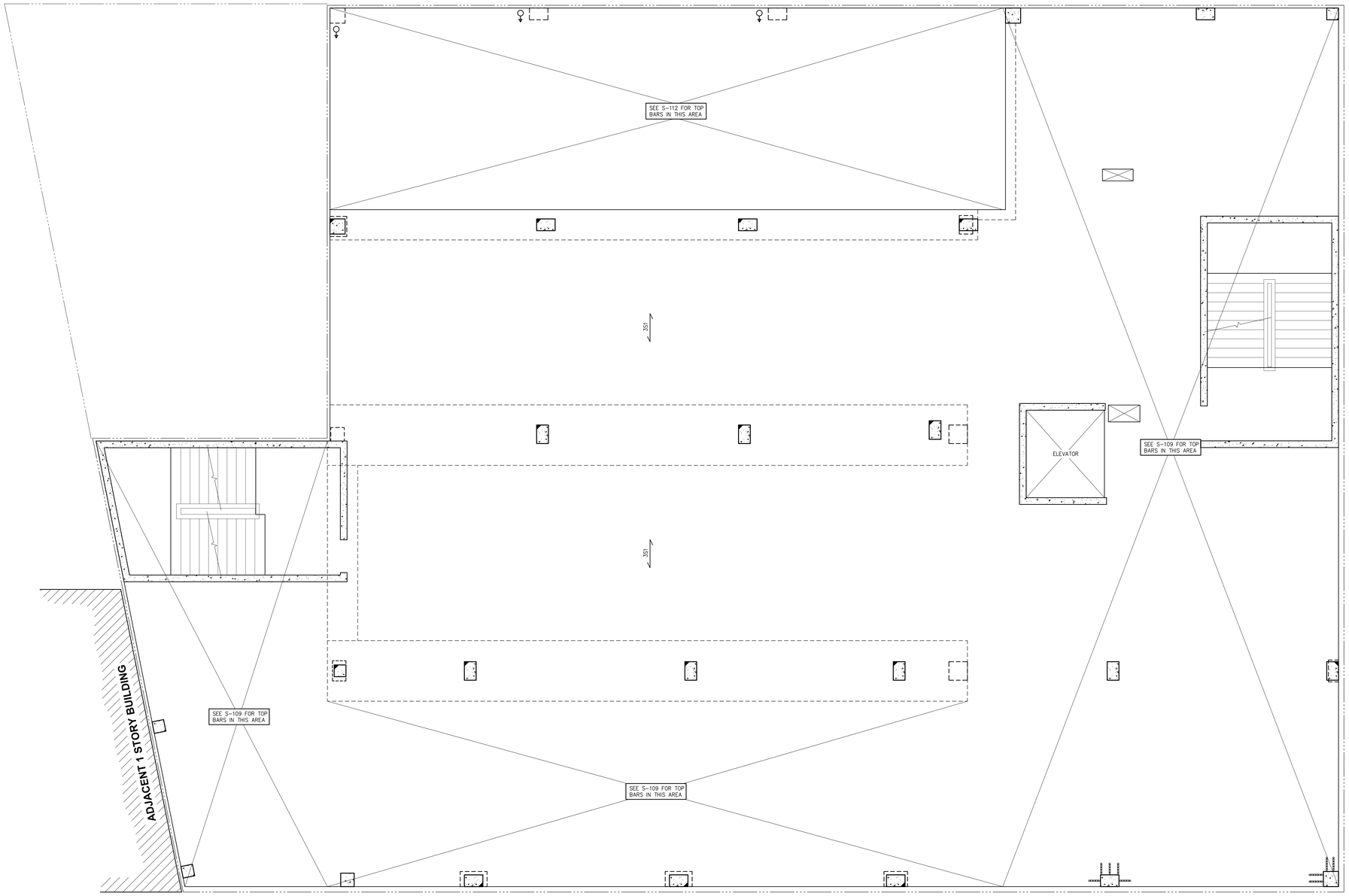
DRAWING TITLE

3RD FLOOR FRAMING PLAN W/ NORTH - SOUTH TOP BARS

Seal & Signature:

STATE OF NEW YORK · RODNEY D. GIBBLE · 073244 · LICENSED PROFESSIONAL ENGINEER

DATE:	08/02/19
PROJECT #:	19051
DWG SCALE:	AS NOTED
DRAWING NO.:	S-107.00



REINF. SCHEDULE FOR ONE-WAY CONC. SLABS

MARK	THICK.	BOTTOM BARS	TOP BARS LEFT	TOP BARS RIGHT	NOTES AND COMMENTS
JS1	8"	#6@12"	#6@10"	#6@10"	SEE TYPICAL DETAIL ON S-203

PLAN NOTES

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4. SEE DRAWING S-203 FOR TYPICAL DETAILS

LEGEND

- INDICATES CAST-IN-PLACE CONCRETE
- INDICATES SLAB OPENING (SEE ARCH. DWGS FOR COORDINATION)
- DENOTES REINFORCED CONCRETE COLUMN (SEE S-100 FOR LOCATIONS NOT SHOWN)
- NUMBER OF STUD RAILS
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- STUD DIAMETER
- 10x12-½"ø @ 4"O.C. — INDICATES STUD RAIL REINFORCEMENT WITH A YIELD STRENGTH OF 50 KSI (SEE TYPICAL DETAIL ON S-201)
- TYPICAL STUD SPACING

TOP BARS (INNER MOST)

TOP BARS EAST-WEST DIRECTION

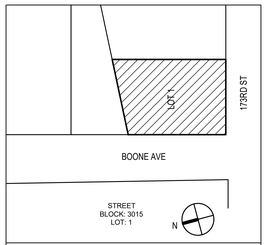
3RD FLOOR FRAMING PLAN w/ EAST-WEST TOP BARS

SCALE: ¼"=1'-0"

0 1 2 4 8 FT

SEE DRAWING S-106.00 FOR BOTTOM BARS
SEE DRAWING S-107.00 FOR NORTH-SOUTH TOP BARS

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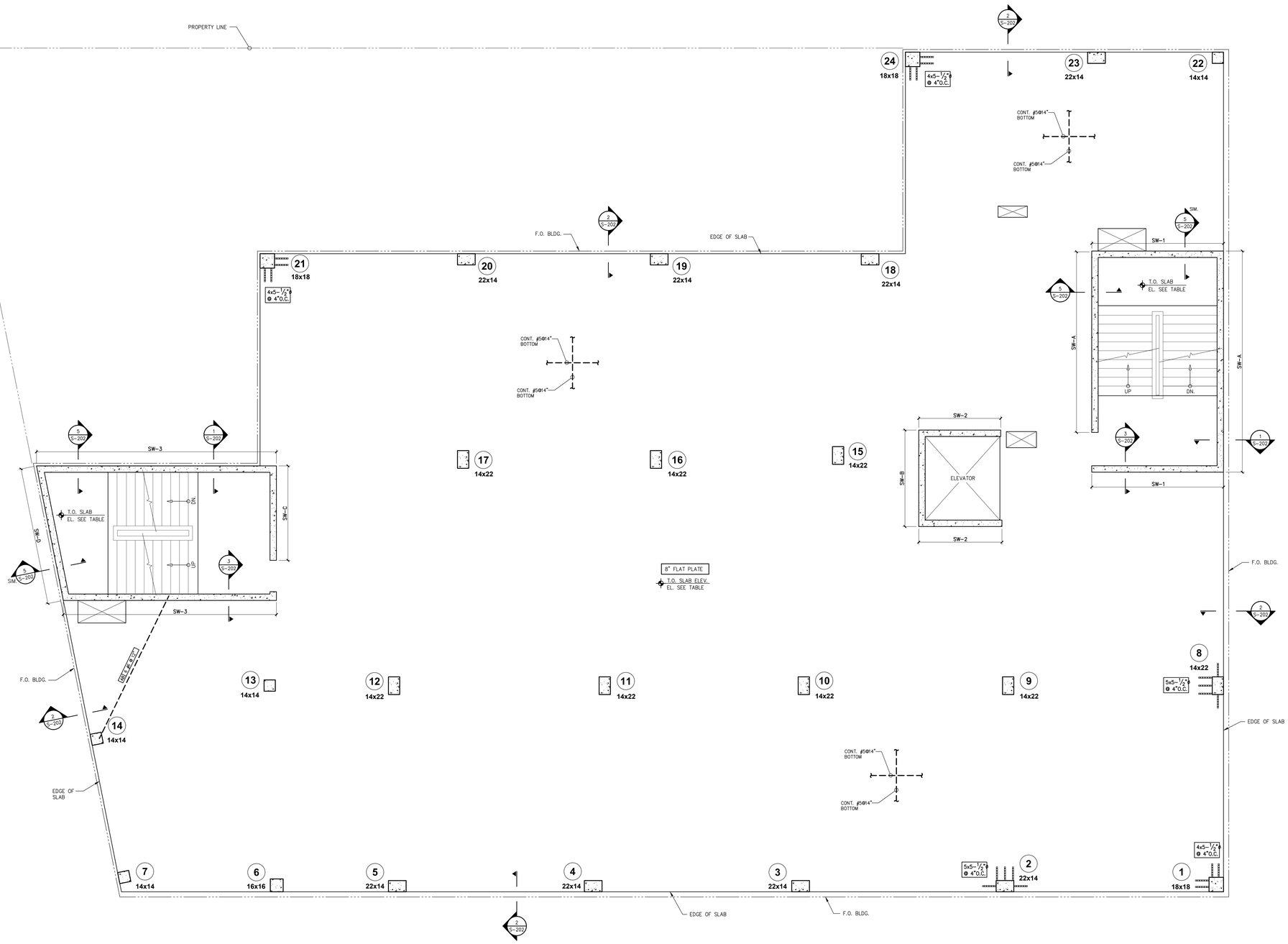
PROJECT NAME
1660 BOONE AVE.
Bronx, New York 10460

DRAWING TITLE
3RD FLOOR FRAMING PLAN W/ EAST - WEST TOP BARS

Seal & Signature:

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DATE: 08/02/19
PROJECT #: 19051
DWG SCALE: AS NOTED
DRAWING NO.:
S-108.00
SHEET 11 OF 22



PLAN NOTES

1. SEE DRAWING S–200 FOR GENERAL NOTES AND DESIGN CRITERIA
2. SEE DRAWING S–201 FOR COLUMN SCHEDULE AND TYPICAL DETAILS
3. SEE DRAWING S–202 FOR SHEAR WALL SCHEDULE AND TYPICAL DETAILS
4. SEE DRAWING S–203 FOR TYPICAL DETAILS

T.O. SLAB EL.

FLOOR	FLOOR EL.	INTERMEDIATE STAIR LANDING EL.
4th	+33'–8"	+28'–5"
5th	+44'–2"	+44'–2"
6th	+54'–8"	+49'–5"

LEGEND

- INDICATES CAST–IN–PLACE CONCRETE
- INDICATES SLAB OPENING (SEE ARCH. DWGS FOR COORDINATION)
- DENOTES REINFORCED CONCRETE COLUMN (SEE S–100 & S–106 FOR LOCATIONS NOT SHOWN)
- NUMBER OF STUD RAILS
- NUMBER OF STUD PER RAIL
- STUD DIAMETER
- 10x12–1/2" @ 4"O.C. — TYPICAL STUD SPACING — INDICATES STUD RAIL REINFORCEMENT WITH A YIELD STRENGTH OF 50 KSI (SEE TYPICAL DETAIL ON S–201)

CONT. BAR SIZE @ SPACING (OUTER MOST)
CONT. BAR SIZE @ SPACING (INNER MOST)

BOTTOM MAT REINFORCEMENT

AB – x –

ADDITIONAL BOTTOM BARS

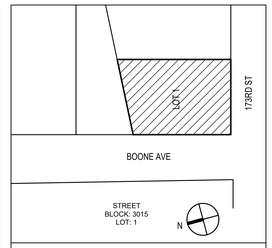
TYPICAL (4th-6th) FLOOR FRAMING PLAN w/ COLUMN GEOMETRY & BOTTOM BARS

SCALE: 1/4"=1'–0"

0 1 2 4 8 FT

SEE DRAWING S–110.00 FOR NORTH–SOUTH TOP BARS
SEE DRAWING S–111.00 FOR EAST–WEST TOP BARS

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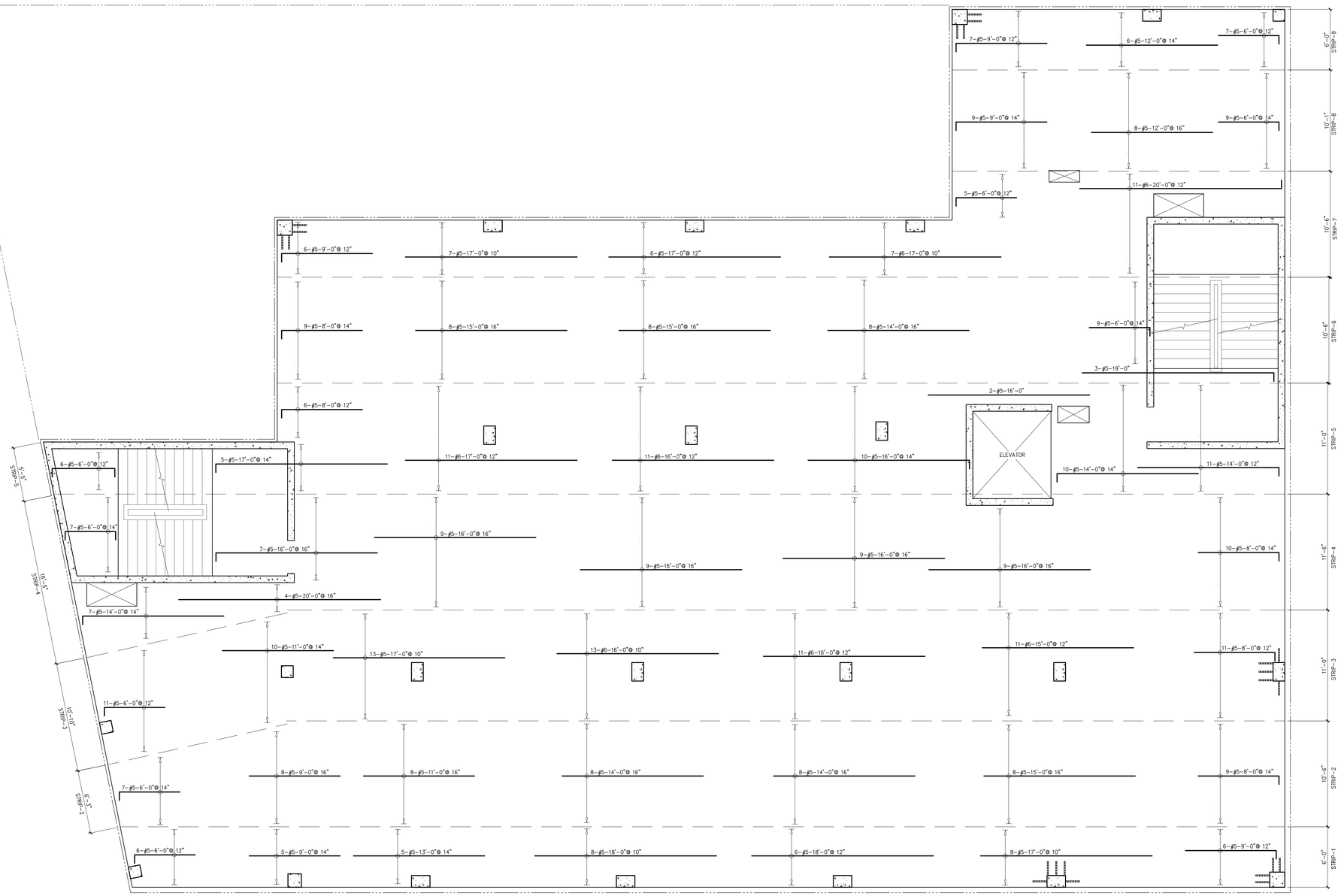
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PROJECT NAME
1660 BOONE AVE.
Bronx, New York 10460

DRAWING TITLE
TYPICAL (4TH - 6TH) FLOOR FRAMING PLAN w/ COLUMN GEOMETRY & BOTTOM BARS

Seal & Signature:
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DATE: 08/02/19
PROJECT #: 19051
DWG SCALE: AS NOTED
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SHEET 12 OF 22



PLAN NOTES

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2. SEE DRAWING S–201 FOR COLUMN SCHEDULE AND TYPICAL DETAILS
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4. SEE DRAWING S–203 FOR TYPICAL DETAILS

LEGEND

INDICATES CAST–IN–PLACE CONCRETE

INDICATES SLAB OPENING (SEE ARCH. DWGS FOR COORDINATION)

DENOTES REINFORCED CONCRETE COLUMN (SEE S–100 FOR LOCATIONS NOT SHOWN)

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STUD DIAMETER
10x12–½"ø @ 4"O.C.
INDICATES STUD RAIL REINFORCEMENT WITH A YIELD STRENGTH OF 50 KSI (SEE TYPICAL DETAIL ON S–201)
TYPICAL STUD SPACING

TOP BARS (OUTER MOST)

TOP BARS NORTH-SOUTH DIRECTION

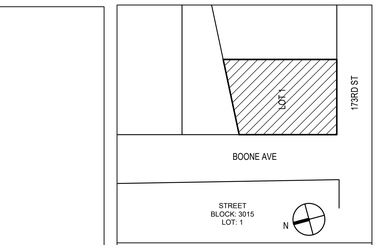
TYPICAL (4th-6th) FLOOR FRAMING PLAN w/ NORTH-SOUTH TOP BARS

SCALE: ¼"=1'–0"

SEE DRAWING S–109.00 FOR BOTTOM BARS
SEE DRAWING S–111.00 FOR EAST–WEST TOP BARS

0 1 2 4 8 FT

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DOB XXXXXX

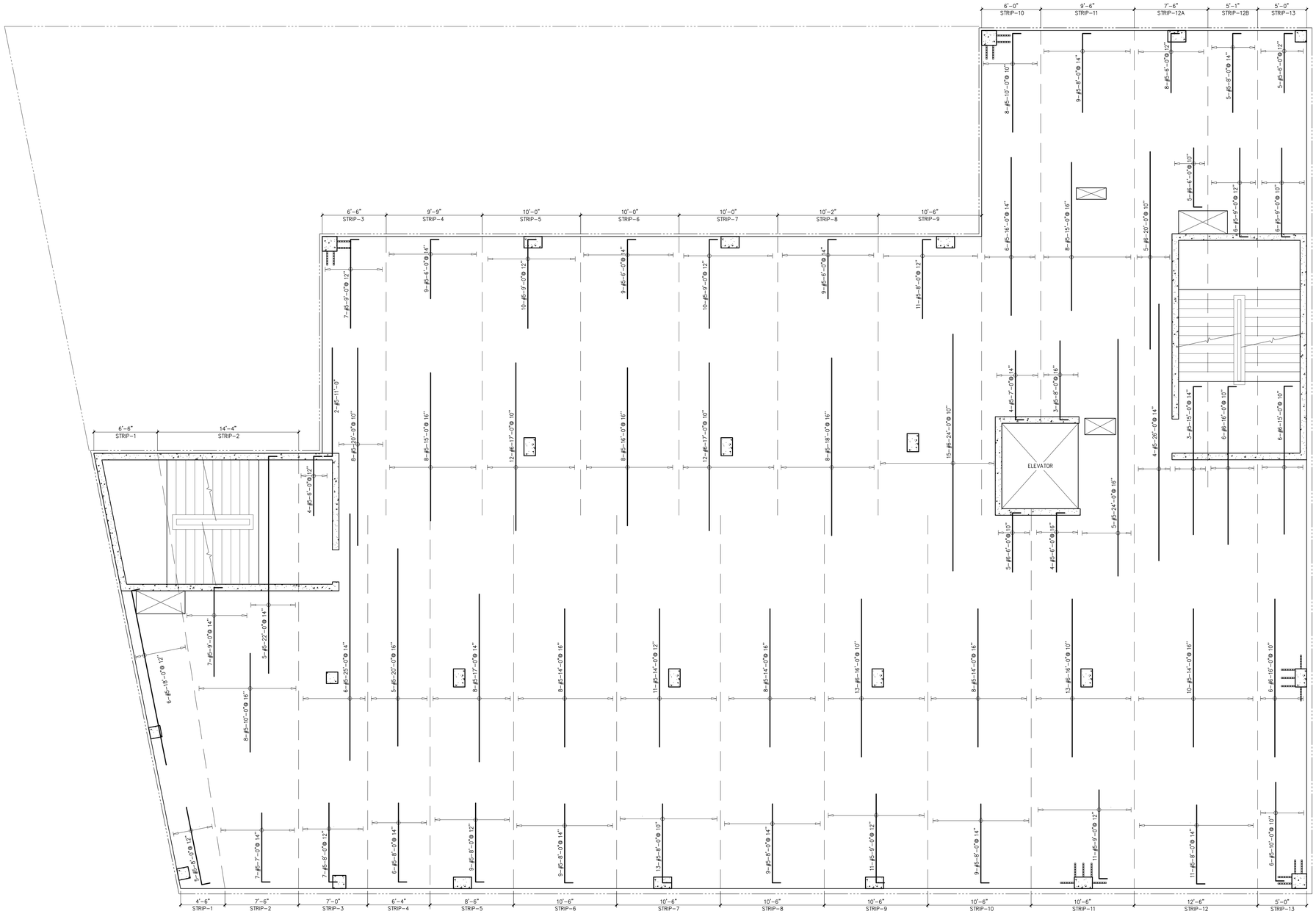
PROJECT NAME
1660 BOONE AVE.
Bronx, New York 10460

DRAWING TITLE
TYPICAL (4TH - 6TH) FLOOR FRAMING PLAN w/ NORTH-SOUTH TOP BARS

Seal & Signature:

STATE OF NEW YORK · RODNEY D. GIBBLE · 083244 · LICENSED PROFESSIONAL ENGINEER

DATE: 08/02/19
PROJECT #: 19051
DWG SCALE: AS NOTED
DRAWING NO.: S-110.00
SHEET 13 OF 22



PLAN NOTES

1. SEE DRAWING S-200 FOR GENERAL NOTES AND DESIGN CRITERIA
2. SEE DRAWING S-201 FOR COLUMN SCHEDULE AND TYPICAL DETAILS
3. SEE DRAWING S-202 FOR SHEAR WALL SCHEDULE AND TYPICAL DETAILS
4. SEE DRAWING S-203 FOR TYPICAL DETAILS

LEGEND

INDICATES CAST-IN-PLACE CONCRETE

INDICATES SLAB OPENING (SEE ARCH. DWGS FOR COORDINATION)

DENOTES REINFORCED CONCRETE COLUMN (SEE S-100 FOR LOCATIONS NOT SHOWN)

NUMBER OF STUD RAILS
NUMBER OF STUD PER RAIL
STUD DIAMETER
10x12-7/8"ø @ 4"O.C.
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TYPICAL STUD SPACING

TOP BARS (INNER MOST)

TOP BARS EAST-WEST DIRECTION

TYPICAL (4th-6th) FLOOR FRAMING PLAN w/ EAST-WEST TOP BARS

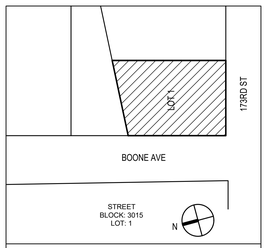
SCALE: 1/8"=1'-0"

SEE DRAWING S-109.00 FOR BOTTOM BARS
SEE DRAWING S-110.00 FOR NORTH-SOUTH TOP BARS

0 1 2 4 8 FT

N

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DOB XXXXXX

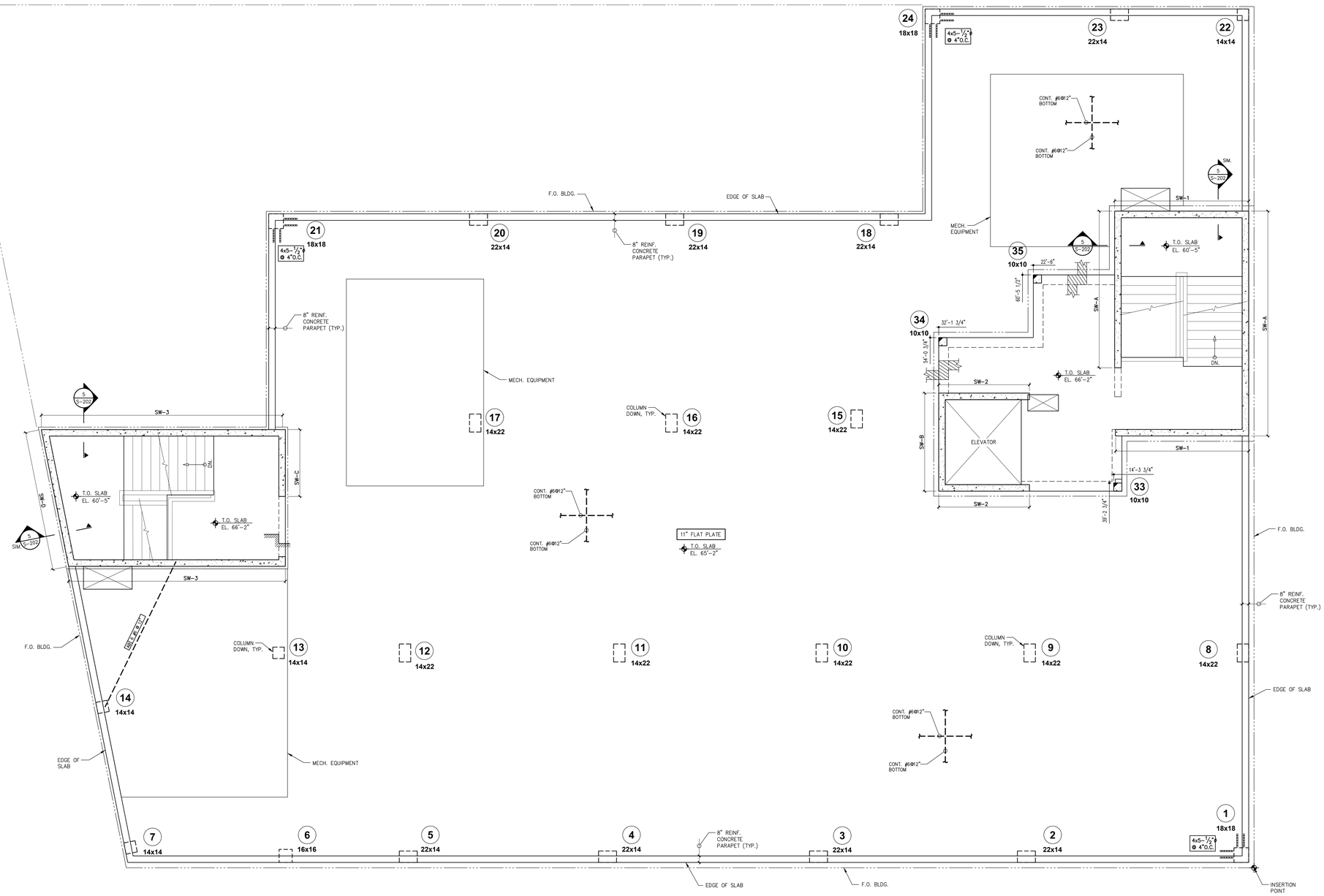
PROJECT NAME
1660 BOONE AVE.
Bronx, New York 10460

DRAWING TITLE
TYPICAL (4TH - 6TH) FLOOR FRAMING PLAN w/ EAST-WEST TOP BARS

Seal & Signature:

STATE OF NEW YORK · RODNEY D. GIBBLE · 032445 · LICENSED PROFESSIONAL ENGINEER

DATE: 08/02/19
PROJECT #: 19051
DWG SCALE: AS NOTED
DRAWING NO.:
S-111.00
SHEET 14 OF 22



PLAN NOTES

1. SEE DRAWING S–200 FOR GENERAL NOTES AND DESIGN CRITERIA
2. SEE DRAWING S–201 FOR COLUMN SCHEDULE AND TYPICAL DETAILS
3. SEE DRAWING S–202 FOR SHEAR WALL SCHEDULE AND TYPICAL DETAILS
4. SEE DRAWING S–203 FOR TYPICAL DETAILS

LEGEND

INDICATES CAST–IN–PLACE CONCRETE

INDICATES SLAB OPENING (SEE ARCH. DWGS FOR COORDINATION)

DENOTES REINFORCED CONCRETE COLUMN (SEE S–100 & S–106 FOR LOCATIONS NOT SHOWN)

NUMBER OF STUD RAILS
NUMBER OF STUD PER RAIL
STUD DIAMETER
10x12–½"ø @ 4"O.C.
TYPICAL STUD SPACING

INDICATES STUD RAIL REINFORCEMENT WITH A YIELD STRENGTH OF 50 KSI (SEE TYPICAL DETAIL ON S–201)

CONT. BAR SIZE @ SPACING (OUTER MOST)
CONT. BAR SIZE @ SPACING (INNER MOST)

BOTTOM MAT REINFORCEMENT

AB

ADDITIONAL BOTTOM BARS

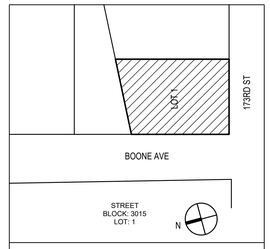
ROOF FRAMING PLAN
w/ COLUMN GEOMETRY & BOTTOM BARS

SCALE: ⅛"=1'–0"

0 1 2 4 8 FT

SEE DRAWING S–113.00 FOR NORTH–SOUTH TOP BARS
SEE DRAWING S–114.00 FOR EAST–WEST TOP BARS

PROGRESS PRINT
NOT FOR CONSTRUCTION 20–SEP–19



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/28/19	FOUNDATION UPDATE
	08/02/19	DOB FILING / 50% CD

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DOB XXXXXX

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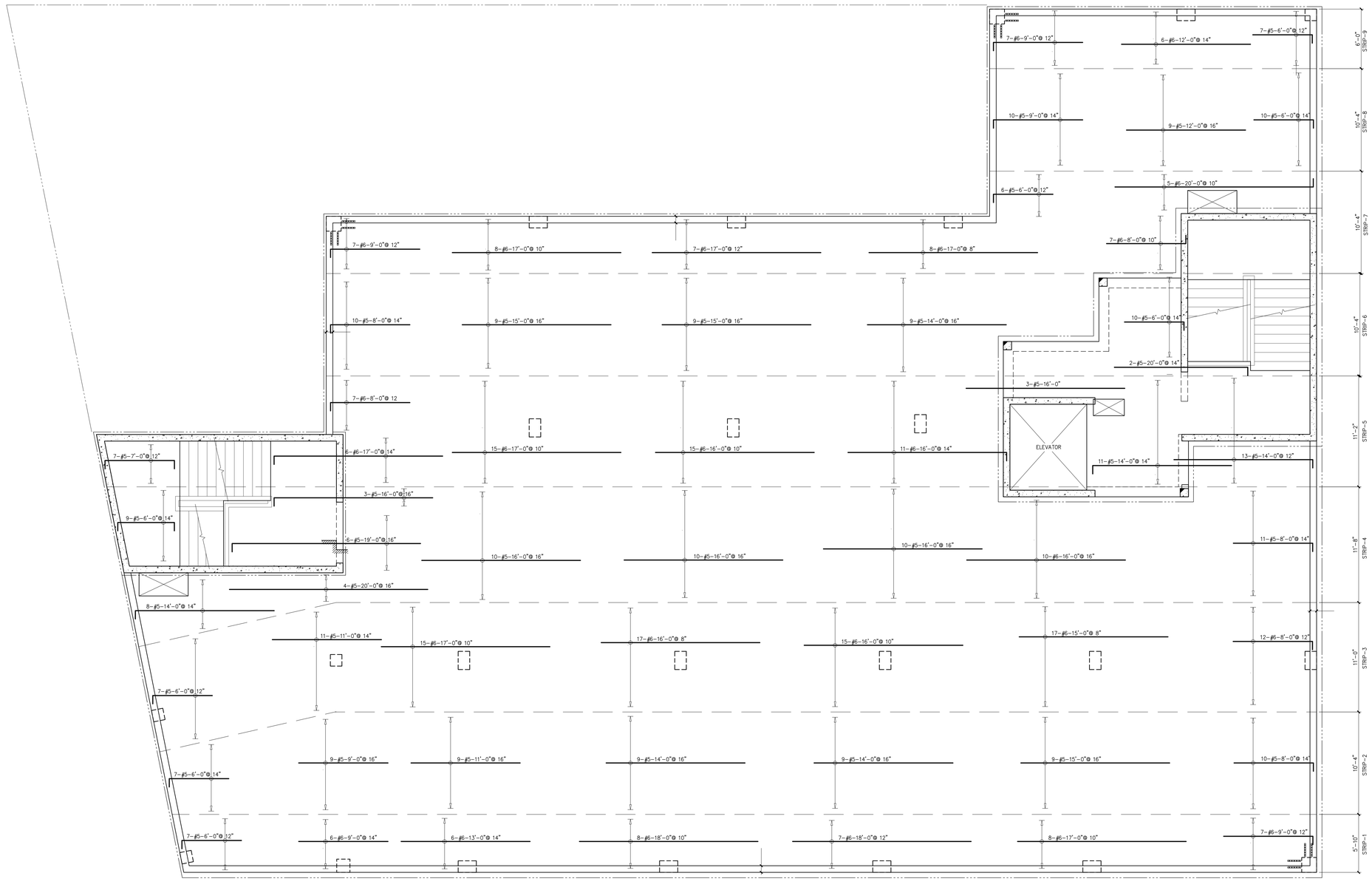
DRAWING TITLE
ROOF FRAMING PLAN W/ COLUMN GEOMETRY & BOTTOM BARS

Seal & Signature:

STATE OF NEW YORK · RODNEY D. GIBBLE · 032044 · LICENSED PROFESSIONAL ENGINEER

DATE:	08/02/19
PROJECT #:	19051
DWG SCALE:	AS NOTED
DRAWING NO.:	S-112.00

SHEET 15 OF 22



PLAN NOTES

1. SEE DRAWING S–200 FOR GENERAL NOTES AND DESIGN CRITERIA
2. SEE DRAWING S–201 FOR COLUMN SCHEDULE AND TYPICAL DETAILS
3. SEE DRAWING S–202 FOR SHEAR WALL SCHEDULE AND TYPICAL DETAILS
4. SEE DRAWING S–203 FOR TYPICAL DETAILS

LEGEND

INDICATES CAST–IN–PLACE CONCRETE

INDICATES SLAB OPENING (SEE ARCH. DWGS FOR COORDINATION)

DENOTES REINFORCED CONCRETE COLUMN (SEE S–100 FOR LOCATIONS NOT SHOWN)

NUMBER OF STUD RAILS
NUMBER OF STUD PER RAIL
STUD DIAMETER

10x12–$\frac{1}{2}$"ø @ 4"O.C.

INDICATES STUD RAIL REINFORCEMENT WITH A YIELD STRENGTH OF 50 KSI (SEE TYPICAL DETAIL ON S–201)

TYPICAL STUD SPACING

TOP BARS (OUTER MOST)

TOP BARS NORTH-SOUTH DIRECTION

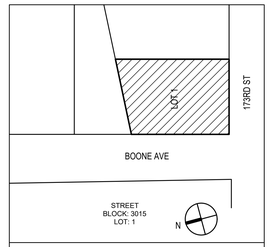
ROOF FRAMING PLAN w/ NORTH-SOUTH TOP BARS

SCALE: $\frac{1}{4}$"=1'–0"
SEE DRAWING S–112.00 FOR BOTTOM BARS
SEE DRAWING S–114.00 FOR EAST–WEST TOP BARS

0 1 2 4 8 FT

N

PROGRESS PRINT
NOT FOR CONSTRUCTION
20–SEP–19



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	08/02/19	DOB FILING / 50% CD

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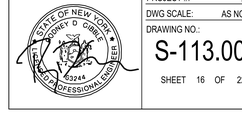
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PROJECT NAME
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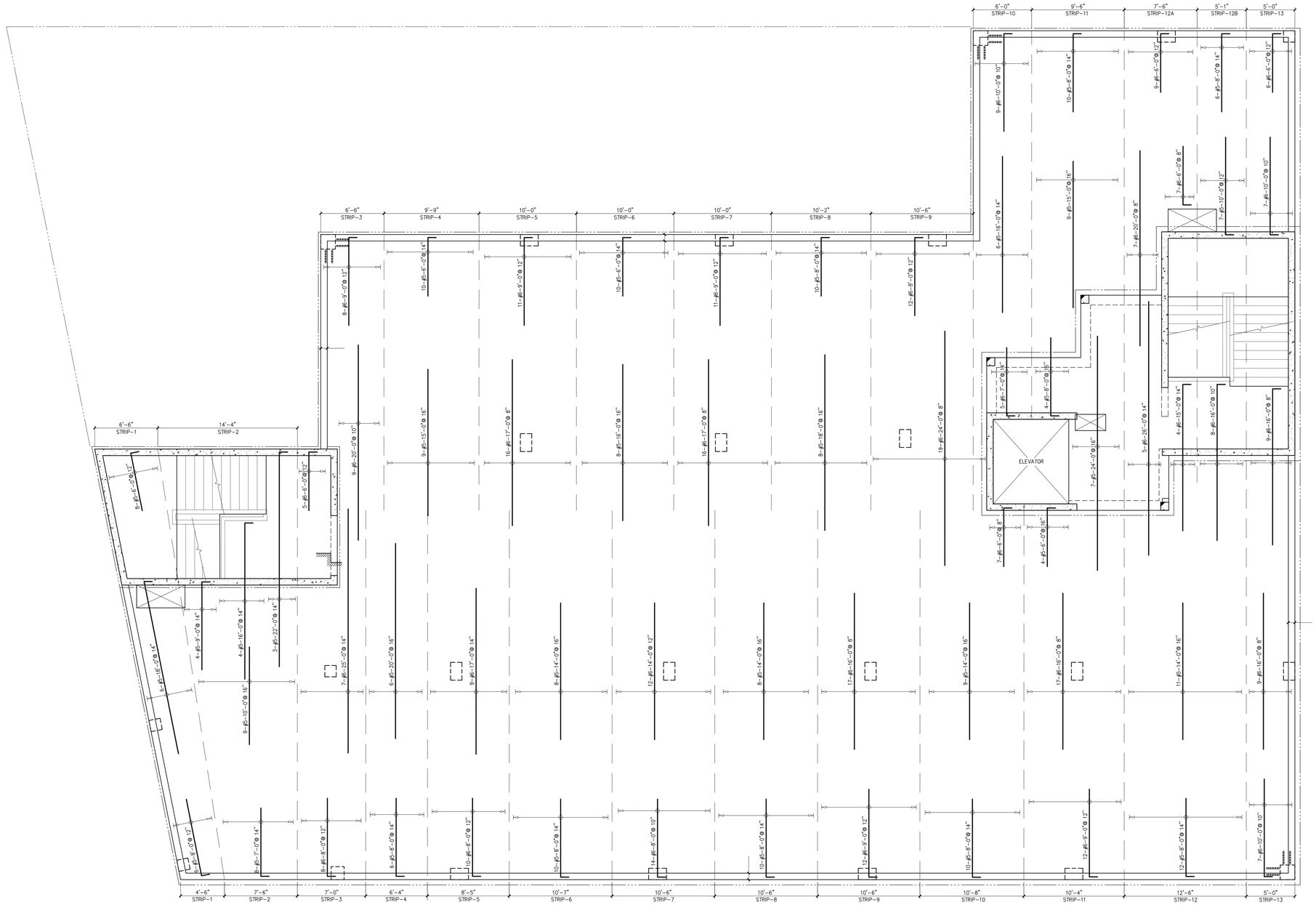
DRAWING TITLE
ROOF FRAMING PLAN W/ NORTH - SOUTH TOP BARS

Seal & Signature:



DATE:	08/02/19
PROJECT #:	19051
DWG SCALE:	AS NOTED

DRAWING NO.:
S-113.00
SHEET 16 OF 22



PLAN NOTES

1. SEE DRAWING S-200 FOR GENERAL NOTES AND DESIGN CRITERIA
2. SEE DRAWING S-201 FOR COLUMN SCHEDULE AND TYPICAL DETAILS
3. SEE DRAWING S-202 FOR SHEAR WALL SCHEDULE AND TYPICAL DETAILS
4. SEE DRAWING S-203 FOR TYPICAL DETAILS

LEGEND

INDICATES CAST-IN-PLACE CONCRETE

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DENOTES REINFORCED CONCRETE COLUMN (SEE S-100 FOR LOCATIONS NOT SHOWN)

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NUMBER OF STUD PER RAIL
STUD DIAMETER
10x12-½"ø @ 4"O.C.
INDICATES STUD RAIL REINFORCEMENT WITH A YIELD STRENGTH OF 50 KSI (SEE TYPICAL DETAIL ON S-201)
TYPICAL STUD SPACING

TOP BARS (INNER MOST)

TOP BARS EAST-WEST DIRECTION

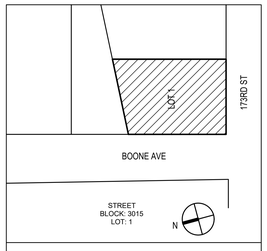
ROOF FRAMING PLAN w/ EAST-WEST TOP BARS

SCALE: ¼"=1'-0"
SEE DRAWING S-112.00 FOR BOTTOM BARS
SEE DRAWING S-113.00 FOR NORTH-SOUTH TOP BARS

0 1 2 4 8 FT

N

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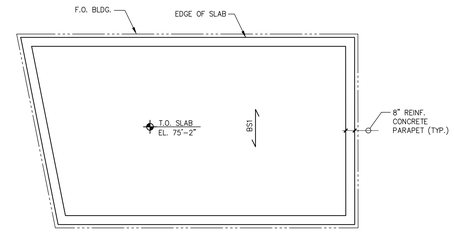
DRAWING TITLE
ROOF FRAMING PLAN W/ EAST - WEST TOP BARS

Seal & Signature:



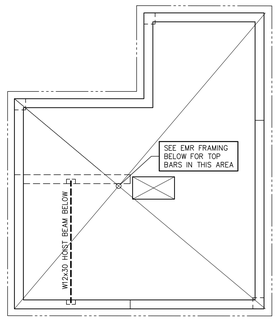
DATE:	08/02/19
PROJECT #:	19051
DWG SCALE:	AS NOTED
DRAWING NO.:	S-114.00

SHEET 17 OF 22



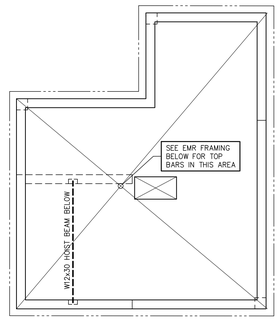
STAIR BULKHEAD FRAMING PLAN

SCALE: 1/4=1'-0"



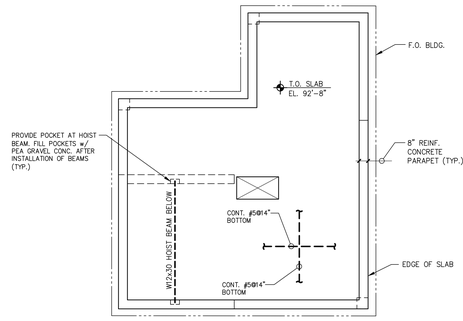
EMR ROOF FRAMING PLAN
w/ EAST-WEST TOP BARS

SCALE: 1/4=1'-0"



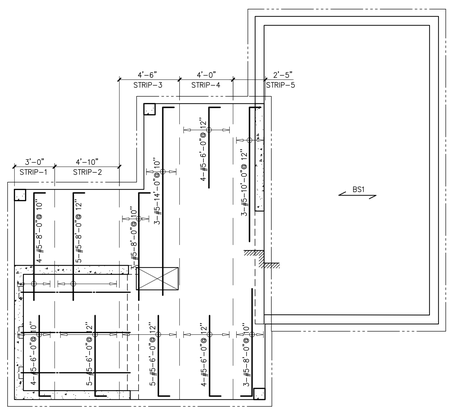
EMR ROOF FRAMING PLAN
w/ NORTH-SOUTH TOP BARS

SCALE: 1/4=1'-0"



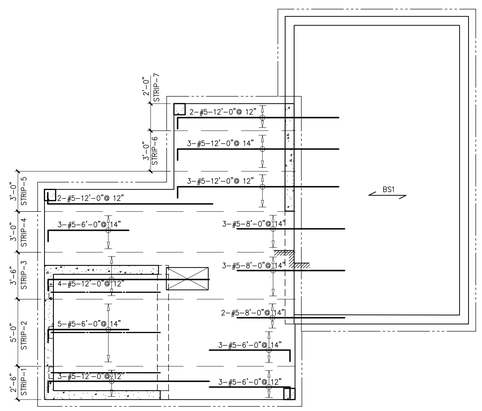
EMR ROOF FRAMING PLAN
w/ COLUMN GEOMETRY & BOTTOM BARS

SCALE: 1/4=1'-0"



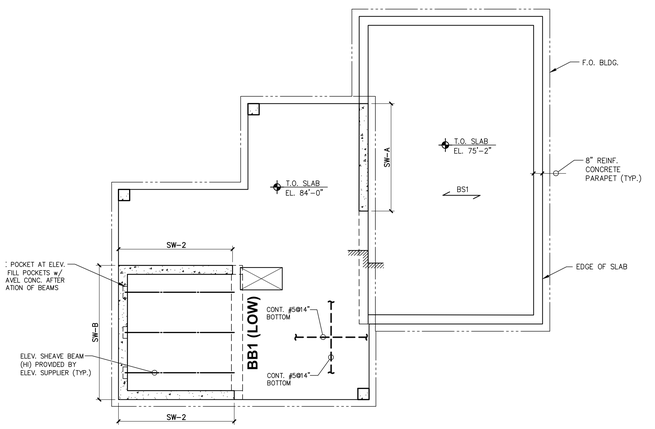
ELEVATOR MACHINE ROOM FRAMING PLAN
w/ EAST-WEST TOP BARS

SCALE: 1/4=1'-0"



ELEVATOR MACHINE ROOM FRAMING PLAN
w/ NORTH-SOUTH TOP BARS

SCALE: 1/4=1'-0"



ELEVATOR MACHINE ROOM FRAMING PLAN
w/ COLUMN GEOMETRY & BOTTOM BARS

SCALE: 1/4=1'-0"

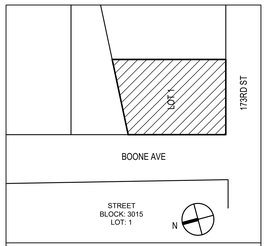
REINF. SCHEDULE FOR ONE-WAY CONC. SLABS

MARK	THICK.	BOTTOM BARS	TOP BARS LEFT	TOP BARS RIGHT	NOTES AND COMMENTS
BS1	8"	#4@12"	#4@12"	#4@12"	SEE TYPICAL DETAIL ON S-203

CONCRETE BEAM SCHEDULE

MARK	SIZE (W x H)	BOTTOM BARS	TOP BARS CONT.	TOP BARS LEFT	TOP BARS RIGHT	STIRRUPS SIZE	STIRRUPS LEGS	STIRRUPS SPACING
BB1	10x14	2#8	2#6	–	–	#4	2	@6"

PROGRESS PRINT
NOT FOR CONSTRUCTION
20-SEP-19



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	08/28/19	FOUNDATION UPDATE
	08/02/19	DOB FILING / 50% CD

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DOB XXXXXX

PROJECT NAME
1660 BOONE AVE.
Bronx, New York 10460

DRAWING TITLE
EMR & BULKHEAD FRAMING PLANS

Seal & Signature:



DATE: 08/02/19
PROJECT #: 19051
DWG SCALE: AS NOTED
DRAWING NO.: S-115.00
SHEET 18 OF 22

GENERAL NOTES

BUILDING CODE AND DESIGN STANDARDS

1. BUILDING CODE OF THE CITY OF NEW YORK, 2014 EDITION, INCLUDING LATEST UPDATES AND LOCAL LAWS ("NYC BUILDING CODE").
2. AMERICAN CONCRETE INSTITUTE ("ACI") "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" ACI 318–11, AS ADOPTED AND AMENDED BY SECTION 1908 OF THE NYC BUILDING CODE.

GENERAL

1. THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS. IF DISCREPANCIES EXIST, NOTIFY ENGINEER BEFORE PERFORMING WORK.
2. NOTES AND TYPICAL DETAILS APPLY TO ALL WORK UNLESS OTHERWISE NOTED. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS OF A SIMILAR NATURE AND VERIFY APPLICABILITY BY SUBMITTING SHOP DRAWINGS FOR REVIEW.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOBSITE AT ALL TIMES, INCLUDING THE SAFETY OF PERSONS AND PROPERTY. THE PRESENCE OF THE ENGINEER OR HIS REPRESENTATIVES AT THE JOBSITE SHALL NOT CONSTITUTE ANY RESPONSIBILITY FOR JOBSITE SAFETY OR FOR THE CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION.
4. SHORING, BRACING AND PROTECTION OF EXISTING AND ADJACENT STRUCTURES DURING CONSTRUCTION IS THE SOLE REPONSIBILITY OF THE CONTRACTOR. ANY INFORMATION OR DETAILS PROVIDED HEREIN ARE SUGGESTIONS ONLY.
5. CHANGES OR DEVIATIONS FROM THESE DRAWINGS MUST BE SUBMITTED IN WRITING ON THE CONTRACTOR'S LETTERHEAD AND ACCEPTED BY THE ENGINEER PRIOR TO THE START OF WORK.
6. DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION.
7. DETAILS HAVE BEEN PREPARED BASED UPON LIMITED KNOWLEDGE OF EXISTING CONDITIONS. DEVIATIONS FROM CONDITIONS INFERRED TO EXIST MAY OCCUR. NOTIFY ENGINEER PRIOR TO PERFORMING WORK IN ALL SUCH CASES.
8. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS IN THE FIELD AND SHALL BE RESPONSIBLE FOR ACCURATE INSTALLATION. ONLY FIELD–VERIFIED DIMENSIONS ARE TO BE USED FOR PREPARATION OF SHOP DRAWINGS.
9. DEFICIENT WORK SHALL BE REPLACED OR REPAIRED, AS DETERMINED BY THE ENGINEER, AT NO COST TO THE OWNER.
10. DO NOT CUT OR ALTER ANY EXISTING STRUCTURAL MEMBERS UNLESS SHOWN ON THESE DRAWINGS OR INSTRUCTED IN WRITING BY THE ENGINEER.
11. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR WATER/DAMPROOFING AND FIREPROOFING DETAILS AND REQUIREMENTS.

FOUNDATIONS

1. FOOTINGS SHALL BE PLACED ON UNDISTURBED NATURAL SOIL WITH A MINIMUM SAFE BEARING CAPACITY OF 3 TSF PER GEOTECHNICAL REPORT ISSUED BY AMERIGEO DATED 7–23–19. IF ADEQUATE SOIL IS NOT FOUND AT THE DEPTH SHOWN ON THESE DRAWINGS, NOTIFY ENGINEER. SUBGRADE FOR ALL FOOTINGS SHALL BE SUBJECT TO SPECIAL INSPECTION IMMEDIATELY PRIOR TO PLACEMENT OF CONCRETE.
2. NOTIFY NYC BUILDINGS DEPARTMENT PRIOR TO START OF WORK IN ACCORDANCE WITH CHAPTER 33 OF THE NYC BUILDING CODE.
3. SLAB ON GRADE SHALL BE PLACED ON SELECT GRANULAR FILL COMPACTED TO AT LEAST 95 PERCENT MAXIMUM MODIFIED DRY DENSITY PER ASTM D1557. SEE TYPICAL DETAIL FOR ADDITIONAL INFORMATION.
4. DO NOT UNDERMINE EXISTING FOOTINGS OR SLABS.
5. DEWATERING OF THE SITE DURING CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. PRECAUTIONS SHALL BE TAKEN NOT TO UNDERMINE EXISTING FOUNDATIONS.
6. NO BACKFILL SHALL BE PLACED AGAINST FOUNDATION WALLS UNLESS SUPPORTING SLABS ARE CAST AND SET OR THE WALLS ARE ADEQUATELY BRACED.
7. ALL FOOTINGS SHALL BE CENTERED ON COLUMN OR POST ABOVE, U.O.N.
8. U.O.N., PROVIDE DOWELS IN FOUNDATIONS FOR ALL WALLS, COLUMNS, PIERS, ETC. EQUAL IN NUMBER AND ONE SIZE SMALLER, BUT NOT LESS THAN #4, THAN THE VERTICAL REINFORCEMENT ABOVE.
9. PROVIDE WATERSTOPS IN ALL VERTICAL CONSTRUCTION JOINTS IN FOUNDATION WALLS.

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE WORK SHALL COMPLY WITH ACI 301–05 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". WORK SHALL ALSO CONFORM TO THE REQUIREMENTS AND RECOMMENDATIONS OF THE FOLLOWING ACI DOCUMENTS: 305R, 306.1, 306R, 211.1, 211.2, 214, 304R, 304.2R, 304.5R, 309R, 308, 302.1R, SP–66, 117, 347R.
2. SHOP DRAWINGS FOR ALL REINFORCING SHALL BE PREPARED IN ACCORDANCE WITH THE ACI DETAILING MANUAL AND SUBMITTED FOR APPROVAL PRIOR TO THE START OF WORK. CONSTRUCTION JOINTS AND CLEAR COVER AT ALL LOCATIONS SHALL BE CLEARLY SHOWN.
3. CONCRETE MIXES SHALL BE PREPARED IN ACCORDANCE WITH THE NYC BUILDING CODE AND SUBMITTED FOR REVIEW AT LEAST 14 DAYS PRIOR TO THE PLACEMENT OF CONCRETE.
4. CONCRETE FOR FOUNDATION ELEMENTS:
   - NORMAL WEIGHT
   - MINIMUM 28–DAY STRENGTH OF 4,000 PSI
   - MAXIMUM WATER/CEMENTITIOUS RATIO OF 0.50 BY WEIGHT
   - 5.5% AIR CONTENT
5. CONCRETE FOR SLABS ON GRADE:
   - NORMAL WEIGHT
   - MINIMUM 28–DAY STRENGTH OF 4,000 PSI
   - EUCLID "PLASTROL" HRWR – 30 OZ. OR AS REQUIRED
   - INITIAL SLUMP 2" – 3", FINAL SLUMP 5" – 7" w/ HRWR
   - 276 LBS WATER
   - 520 LBS CEMENT
   - MAXIMUM WATER/CEMENTITIOUS RATIO OF 0.53 BY WEIGHT
   - 2,000 LBS COARSE AGGREGATE (#467 STONE)
   - 1,210 LBS FINE AGGREGATE
   - 1.5% AIR ENTRAINMENT
   - 4 LBS EUCLID "TUF STRAND SF" MACRO SYNTHETIC FIBERS
6. CONCRETE FOR FORMED SLABS, BEAMS, COLUMNS & WALLS:
   - NORMAL WEIGHT
   - MINIMUM 28–DAY STRENGTH OF 5,000 PSI
   - MAXIMUM WATER/CEMENTITIOUS RATIO OF 0.50 BY WEIGHT
7. ALL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. ALL WELDED WIRE FABRIC SHALL CONFORM TO THE STANDARDS OF ASTM A185.
8. ALL REINFORCEMENT SHALL BE SECURELY HELD IN POSITION WHILE PLACING CONCRETE. IF NECESSARY, ADDITIONAL BARS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT.
9. LOCATION OF ALL CONSTRUCTION JOINTS NOT SHOWN IN THESE DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO DETAILING OF REINFORCEMENT. ENGINEER MAY REQUIRE ADDITIONAL REINFORCING AT SUCH JOINTS.
10. UNLESS OTHERWISE NOTED, ALL SLABS SHALL BE FINISHED PER ACI 301.
11. REINFORCING STEEL SHALL HAVE A MINIMUM CLEAR COVER AS FOLLOWS, U.O.N. ON THESE DRAWINGS:

    CONCRETE POURED AGAINST EARTH·····3"

    CONCRETE EXPOSED TO EARTH OR WEATHER
    #5 OR SMALLER·····1–1/2"
    #6 OR LARGER·····2"

    CONCRETE NOT EXPOSED TO EARTH OR WEATHER:

    COLUMNS (TIES AND MAIN REINF.)····· 1–1/2"
    SLABS, WALLS, JOISTS·····3/4"
    BEAMS (STIRRUPS AND MAIN REINF.)·····1–1/2"

    CLEAR COVER SHALL BE EXPLICITLY SHOWN AND NOTED ON ALL REINFORCING BAR SHOP DRAWINGS.
12. DIMENSION "LD" AS NOTED ON DRAWINGS SHALL BE AS SPECIFIED IN TABLE(S) ON THESE DRAWINGS.
13. ALL LAP SPLICES SHALL BE 1.3LD UNLESS OTHERWISE NOTED.

SPECIAL AND PROGRESS INSPECTIONS

1. GENERAL:

   IN ACCORDANCE WITH BC 1704.1.1.1, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A MINIMUM OF 72 HOURS OF ADVANCE NOTICE TO PERFORM SUCH INSPECTIONS. ANY WORK WHICH PROCEEDS WITHOUT REQUIRED INSPECTION(S) SHALL BE AT THE SOLE RISK AND RESPONSIBILITY OF THE CONTRACTOR AND HE/SHE SHALL THEREBY HOLD HARMLESS AND INDEMNIFY THE OWNER, ARHITECT, ENGINEER, AND SPECIAL INSPECTOR FROM ANY LIABILITY RESULTING FROM SUCH WORK.
2. SPECIAL INSPECTION ITEMS:

   CONCRETE – CAST–IN–PLACE
   CONCRETE DESIGN MIX
   CONCRETE SAMPLING AND TESTING

   POST–INSTALLED ANCHORS (BB# 2014–018, 2014–019)

   SUBGRADE
   SOILS – INVESTIGATIONS (BORINGS/TEST PITS)

   EXCAVATIONS – SHEETING, SHORING, AND BRACING
3. PROGRESS INSPECTION ITEMS:

   FOOTING AND FOUNDATION

ABBREVIATIONS USED ON DRAWINGS

1. U.O.N. DENOTES "UNLESS OTHERWISE NOTED".
2. T.O. DENOTES "TOP OF".
3. F.O. DENOTES "FACE OF".
4. E.W. DENOTES "EACH WAY".
5. E.F. DENOTES "EACH FACE".
6. T&B DENOTES "TOP AND BOTTOM".
7. CLR DENOTES CLEAR COVER FOR REINFORCING BARS.

TENSION DEVELOPMENT LENGTHS "Ld" FOR 5,000 PSI CONCRETE

BAR SIZE	SLABS		BEAMS LONGTUDINAL REINFORCING		WALLS WITH ONE CURTAIN OF REINFORCING		WALLS WITH TWO CURTAINS OF REINFORCING			
							OUTER LAYER		INNER LAYER	
	BOTTOM BARS	TOP BARS	BOTTOM BARS	TOP BARS	VERT BARS	HORIZ BARS	VERT BARS	HORIZ BARS	VERT BARS	HORIZ BARS
#3	12"	12"	–	–	–	12"	–	12"	–	12"
#4	13"	17"	12"	14"	12"	14"	13"	17"	12"	14"
#5	19"	25"	13"	17"	13"	17"	19"	25"	13"	17"
#6	26"	34"	16"	20"	16"	20"	26"	34"	18"	23"
#7	42"	54"	23"	29"	23"	29"	42"	54"	29"	38"
#8	51"	67"	26"	34"	26"	–	51"	–	37"	–
#9	62"	81"	32"	42"	29"	–	62"	–	45"	–
#10	75"	97"	39"	51"	33"	–	75"	–	55"	–
#11	87"	114"	47"	61"	40"	–	87"	–	65"	–

TENSION DEVELOPMENT LENGTHS "Ld" FOR 4,000 PSI CONCRETE

BAR SIZE	FOOTINGS, MATS, STRAP AND GRADE BEAMS		SLABS		WALLS WITH ONE CURTAIN OF REINFORCING		WALLS WITH TWO CURTAINS OF REINFORCING			
							OUTER LAYER		INNER LAYER	
	BOTTOM BARS	TOP BARS	BOTTOM BARS	TOP BARS	VERT BARS	HORIZ BARS	VERT BARS	HORIZ BARS	VERT BARS	HORIZ BARS
#3	–	–	12"	12"	–	12"	–	12"	–	12"
#4	12"	15"	15"	19"	12"	15"	15"	19"	12"	15"
#5	15"	19"	21"	28"	15"	19"	21"	28"	15"	19"
#6	17"	22"	29"	37"	17"	23"	29"	37"	20"	26"
#7	25"	33"	46"	60"	25"	33"	46"	60"	33"	42"
#8	29"	37"	57"	74"	29"	–	57"	–	41"	–
#9	36"	46"	69"	90"	33"	–	69"	–	50"	–
#10	44"	57"	83"	108"	37"	–	83"	–	61"	–
#11	53"	68"	98"	127"	45"	–	98"	–	73"	–

NOTES

1. TOP BARS ARE DEFINED AS HORIZONTAL REINFORCING WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW THE BARS. USE VALUES FOR BOTTOM BARS IF LESS CONCRETE BELOW.
2. MULTIPLY VALUES PROVIDED ABOVE BY THE FOLLOWING AS APPLICABLE:
   - x 1.3 FOR LT. WT. CONCRETE
   - x 1.3 FOR EPOXY–COATED TOP BARS
   - x 1.5 FOR OTHER EPOXY–COATED BARS
   - x 1.25 FOR GRADE 75 BARS
3. FACTORS FOR WEIGHT, COATING AND GRADE ARE CUMMULATIVE. Ld SHALL BE MULTIPLIED BY EACH FACTOR APPLICABLE.

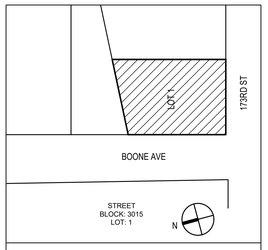
STRUCTURAL DESIGN CRITERIA
PER BUILDING CODE OF NEW YORK CITY, 2014 EDITION ("BCNYC")

LIVE LOADS REF: BCNYC SECTION 1607		
SEE DEAD AND LIVE DESIGN LOAD TABLE		BCNYC TABLE 1607.1
SNOW LOADS REF: BCNYC SECTION 1608 AND ASCE 7–05 SECTION 7		
GROUND SNOW LOAD	Pg = 25 psf	BCNYC SECTION 1608.2
IMPORTANCE FACTOR	Is = 1.1	BCNYC TABLE 1604.5.2 OCCUPANCY CATEGORY III
EXPOSURE FACTOR	Ce = 0.9 TERRAIN CATEGORY B FULLY EXPOSED	BCNYC TABLE 1608.3.1
THERMAL FACTOR	Ct = 1.0	BCNYC TABLE 1608.3.2
FLAT ROOF SNOW LOAD	Pf = _ psf	ASCE 7–05 SECTION 7.3
DRIFTING	_ psf γ = 17.25 pcf lu = _ ft hd = _ ft	ASCE 7–05 SECTION 7.7 & 7.8
WIND LOADS REF: BCNYC 1609.6.3 SIMPLIFIED DESIGN METHOD II & ASCE 7–05 SECTION 6		
BASIC WIND SPEED (3 sec gust)	98 mph	BCNYC SECTION 1609.3
IMPORTANCE FACTOR	Iw = 1.15	BCNYC TABLE 1604.5.2 OCCUPANCY CATEGORY III
EXPOSURE CATEGORY	B	BCNYC SECTION 1609.4
MAIN FORCE RESISTING SYSTEM	20 psf	APPLIED TO HORIZONTAL PROJECTION OF BLDG SURFACES
COMPONENTS AND CLADDING DESIGN PRESSURES WALLS: INTERIOR ZONES EDGE ZONES ROOFS: INTERIOR ZONES EDGES & CORNERS	 ± 30 psf ± 40 psf ± 30 psf ± 40 psf	BCNYC SECTION 1609.6.3.3
EARTHQUAKE LOADS REF: BCNYC 2014 SECTIONS 1613 AND ASCE 7–10		
IMPORTANCE FACTOR	Ie = 1.25	BCNYC TABLE 1604.5.2 OCCUPANCY CATEGORY III
SITE CLASS (SOIL)	C	BCNYC TABLE 1613.5.2
SPECTRAL RESPONSE COEFFICIENTS	Ss = .225 g S1 = .083 g	BCNYC EQ 16–49 BCNYC EQ 16–50
SEISMIC DESIGN CATEGORY	B	BCNYC TABLES 1613.5.6(1)&(2)
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE ANALYSIS	ASCE 7–10 SECTION 12.8
BASIC SEISMIC–FORCE RESISTING SYSTEM	ORDINARY REINF. CONC. SHEAR WALLS R = 5	BCNYC TABLE 1613.8
DESIGN BASE SHEAR	V = .036W	ASCE 7–10 SECTION 12.8.1

DEAD AND LIVE DESIGN LOADS (lbs/sf)

LOCATION / MATERIAL	1st FLOOR			2nd FLOOR			3rd–5th FLOORS				3RD FLOOR ROOF OVER GYM.	ROOF			ELEV. MACHINE ROOM	BULKHEAD ROOFS
	Stairs Lobby & Corridors	Gymnasium	Offices	Stairs & Corridors	Mechanical Room	Offices	Stairs	Corridors	Classrooms	Offices	–	Stairs & Vestibule	Terrace	Mechanical Space	–	–
11" Cast in place concrete slab (see plans)	135	135	135	–	–	–	–	–	–	–	135	135	135	135	–	–
8" Cast in place concrete slab (see plans)	–	–	–	100	100	100	100	100	100	100	–	–	–	–	100	100
Floor finish or pavers	2	8	2	2	2	2	2	2	2	2	–	2	25	–	2	–
Ceilings, mechanical, fire protection	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Partitions	6	–	6	–	–	6	–	6	6	6	–	–	–	–	–	–
Insulation & roofing	–	–	–	–	–	–	–	–	–	–	5	–	15	15	–	5
4" Concrete pad	–	–	–	–	–	–	–	–	–	–	–	–	–	50	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TOTAL DEAD LOAD	148	148	148	107	107	113	107	113	113	113	145	142	180	205	107	110
LIVE LOAD	100	100	50	100	75	50	100	80	40	50	25	100	100	75	75	25
TOTAL LOAD	248	248	198	207	182	163	207	193	153	163	170	242	280	232	182	135

PROGRESS PRINT
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30–SEP–19



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/28/19	FOUNDATION UPDATE
	08/02/19	DOB FILING / 50% CD

ARCHITECT
Stephen B. Jacobs Group, P.C.
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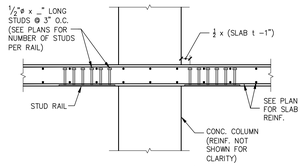
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PROJECT NAME
1660 BOONE AVE.
Bronx, New York 10460

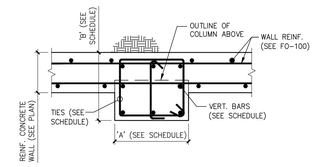
DRAWING TITLE
GENERAL NOTES & DESIGN CRITERIA

Seal & Signature:
STATE OF NEW YORK · RODNEY D GIBBLE · 032442 · LICENSED PROFESSIONAL ENGINEER

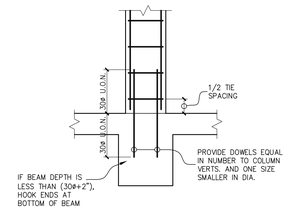
DATE: 08/02/19
PROJECT #: 19051
DWG SCALE: AS NOTED
DRAWING NO.: S-200.00
SHEET 19 OF 22



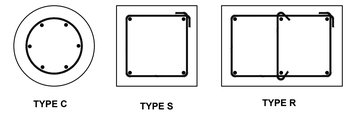
TYPICAL DETAILS OF STUD RAIL REINFORCEMENT FOR SLABS



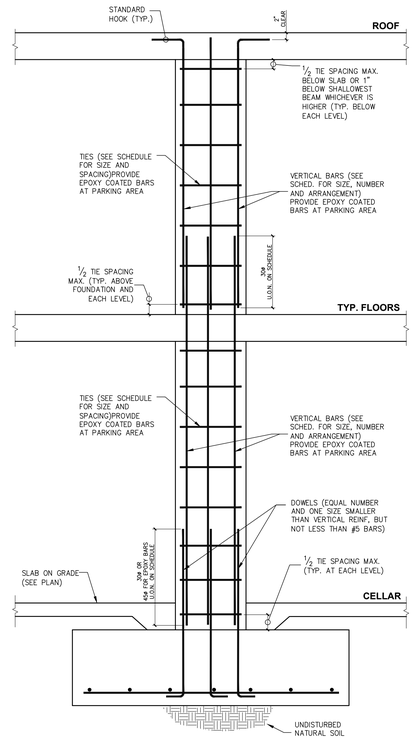
TYPICAL BUTTRESS PLAN DETAIL



TYPICAL DETAIL OF COLUMN SUPPORTED BY CONCRETE BEAM



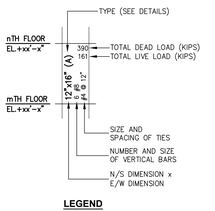
TYPICAL CONCRETE COLUMN SECTIONS



TYPICAL CONCRETE COLUMN DETAIL

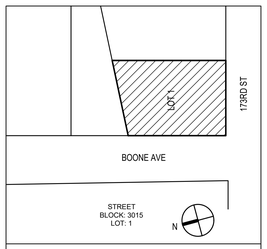
CONCRETE COLUMN SCHEDULE

LEVEL \ COLUMN(S)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
ELEV. MACHINE ROOM																																	3 1 10"x24" (S) 6 #9 #4 @ 10"	3 1 10"x16" (S) 6 #9 #4 @ 10"	3 1 10"x16" (S) 6 #9 #4 @ 10"	4 1 10"x16" (S) 6 #9 #4 @ 10"
EL. SEE PLAN ROOF																																	6 2 10"x24" (S) 6 #9 #4 @ 10"	6 2 10"x20" (S) 6 #9 #4 @ 10"	6 2 10"x20" (S) 6 #9 #4 @ 10"	8 3 10"x20" (S) 6 #9 #4 @ 10"
EL. SEE PLAN 6th FLOOR	36 11 18"x18" (S) 8 #9 #4 @ 10"	57 21 22"x14" (R) #4 @ 4" #4 @ 10"	55 20 22"x14" (R) #4 @ 4" #4 @ 10"	57 22 22"x14" (R) #4 @ 4" #4 @ 10"	44 15 16"x16" (S) #6 @ 10" #4 @ 10"	40 13 14"x14" (S) #4 @ 4" #4 @ 10"	26 5 14"x22" (R) #4 @ 4" #4 @ 10"	60 22 14"x22" (R) #4 @ 4" #4 @ 10"	102 49 14"x22" (R) #4 @ 4" #4 @ 10"	101 49 14"x22" (R) #4 @ 4" #4 @ 10"	109 52 14"x22" (R) #4 @ 4" #4 @ 10"	85 40 14"x22" (R) #4 @ 4" #4 @ 10"	85 40 14"x14" (S) #4 @ 4" #4 @ 10"	55 22 14"x14" (S) #4 @ 4" #4 @ 10"	36 10 14"x22" (R) #4 @ 4" #4 @ 10"	69 32 14"x22" (R) #4 @ 4" #4 @ 10"	101 49 14"x22" (R) #4 @ 4" #4 @ 10"	98 47 14"x22" (R) #4 @ 4" #4 @ 10"	72 26 22"x14" (R) #4 @ 4" #4 @ 10"	52 19 22"x14" (R) #4 @ 4" #4 @ 10"	52 19 22"x14" (R) #4 @ 4" #4 @ 10"	34 10 18"x18" (S) #4 @ 10" #4 @ 10"	19 4 14"x14" (S) #4 @ 4" #4 @ 10"	45 12 22"x14" (R) #4 @ 4" #4 @ 10"	35 8 18"x18" (S) #4 @ 10" #4 @ 10"											
EL. SEE PLAN 5th FLOOR	57 16 18"x18" (S) 8 #9 #4 @ 10"	89 33 22"x14" (R) #4 @ 4" #4 @ 10"	86 28 22"x14" (R) #4 @ 4" #4 @ 10"	89 31 22"x14" (R) #4 @ 4" #4 @ 10"	69 22 16"x16" (S) #6 @ 10" #4 @ 10"	63 19 14"x14" (S) #4 @ 4" #4 @ 10"	40 8 14"x22" (R) #4 @ 4" #4 @ 10"	93 33 14"x22" (R) #4 @ 4" #4 @ 10"	159 70 14"x22" (R) #4 @ 4" #4 @ 10"	158 71 14"x22" (R) #4 @ 4" #4 @ 10"	172 78 14"x22" (R) #4 @ 4" #4 @ 10"	135 61 14"x22" (R) #4 @ 4" #4 @ 10"	135 61 14"x14" (S) #4 @ 4" #4 @ 10"	86 33 14"x14" (S) #4 @ 4" #4 @ 10"	56 15 14"x22" (R) #4 @ 4" #4 @ 10"	107 48 14"x22" (R) #4 @ 4" #4 @ 10"	158 72 14"x22" (R) #4 @ 4" #4 @ 10"	156 71 14"x22" (R) #4 @ 4" #4 @ 10"	111 36 22"x14" (R) #4 @ 4" #4 @ 10"	82 27 22"x14" (R) #4 @ 4" #4 @ 10"	82 27 22"x14" (R) #4 @ 4" #4 @ 10"	55 15 18"x18" (S) #4 @ 10" #4 @ 10"	30 6 14"x14" (S) #4 @ 4" #4 @ 10"	71 19 22"x14" (R) #4 @ 4" #4 @ 10"	56 13 18"x18" (S) #4 @ 10" #4 @ 10"											
EL. SEE PLAN 4th FLOOR	77 20 18"x18" (S) 8 #9 #4 @ 10"	122 38 22"x14" (R) #4 @ 4" #4 @ 10"	125 36 22"x14" (R) #4 @ 4" #4 @ 10"	125 35 22"x14" (R) #4 @ 4" #4 @ 10"	94 28 16"x16" (S) #6 @ 10" #4 @ 10"	86 25 14"x14" (S) #4 @ 4" #4 @ 10"	54 11 14"x22" (R) #4 @ 4" #4 @ 10"	127 45 14"x22" (R) #4 @ 4" #4 @ 10"	216 92 14"x22" (R) #4 @ 4" #4 @ 10"	215 93 14"x22" (R) #4 @ 4" #4 @ 10"	235 104 14"x22" (R) #4 @ 4" #4 @ 10"	185 82 14"x22" (R) #4 @ 4" #4 @ 10"	115 43 14"x14" (S) #4 @ 4" #4 @ 10"	76 20 14"x22" (R) #4 @ 4" #4 @ 10"	146 60 14"x22" (R) #4 @ 4" #4 @ 10"	217 96 14"x22" (R) #4 @ 4" #4 @ 10"	217 94 14"x22" (R) #4 @ 4" #4 @ 10"	150 47 22"x14" (R) #4 @ 4" #4 @ 10"	112 35 22"x14" (R) #4 @ 4" #4 @ 10"	112 35 22"x14" (R) #4 @ 4" #4 @ 10"	75 20 18"x18" (S) #4 @ 10" #4 @ 10"	41 8 14"x14" (S) #4 @ 4" #4 @ 10"	97 26 22"x14" (R) #4 @ 4" #4 @ 10"	77 18 18"x18" (S) #4 @ 10" #4 @ 10"											
EL. SEE PLAN 3rd FLOOR	98 25 18"x18" (S) 8 #9 #4 @ 10"	154 47 22"x14" (R) #4 @ 4" #4 @ 10"	147 45 22"x14" (R) #4 @ 4" #4 @ 10"	159 49 22"x14" (R) #4 @ 4" #4 @ 10"	119 34 16"x16" (S) #6 @ 10" #4 @ 10"	108 31 14"x14" (S) #4 @ 4" #4 @ 10"	68 15 14"x22" (R) #4 @ 4" #4 @ 10"	160 56 14"x22" (R) #4 @ 4" #4 @ 10"	274 114 14"x22" (R) #4 @ 4" #4 @ 10"	272 116 14"x22" (R) #4 @ 4" #4 @ 10"	298 130 14"x22" (R) #4 @ 4" #4 @ 10"	235 103 14"x22" (R) #4 @ 4" #4 @ 10"	145 53 14"x14" (S) #4 @ 4" #4 @ 10"	96 26 14"x22" (R) #4 @ 4" #4 @ 10"	184 75 14"x22" (R) #4 @ 4" #4 @ 10"	275 122 14"x22" (R) #4 @ 4" #4 @ 10"	276 119 14"x22" (R) #4 @ 4" #4 @ 10"	188 58 22"x14" (R) #4 @ 4" #4 @ 10"	142 42 22"x14" (R) #4 @ 4" #4 @ 10"	143 42 22"x14" (R) #4 @ 4" #4 @ 10"	96 25 18"x18" (S) #4 @ 10" #4 @ 10"	53 10 14"x14" (S) #4 @ 4" #4 @ 10"	123 33 22"x14" (R) #4 @ 4" #4 @ 10"	97 23 18"x18" (S) #4 @ 10" #4 @ 10"											
EL. SEE PLAN 2nd FLOOR	121 30 18"x18" (S) #4 @ 10"	184 54 22"x14" (R) #4 @ 4" #4 @ 10"	198 54 28"x18" (R) #4 @ 4" #4 @ 10"	233 61 32"x18" (R) #4 @ 4" #4 @ 10"	170 46 16"x16" (S) #6 @ 10" #4 @ 10"	126 35 14"x14" (S) #4 @ 4" #4 @ 10"	81 17 14"x22" (R) #4 @ 4" #4 @ 10"	195 67 12"x28" (R) #4 @ 4" #4 @ 10"	309 128 14"x22" (R) #4 @ 4" #4 @ 10"				674 224 16"x24" (S) #6 @ 10" #4 @ 10"	710 224 14"x14" (S) #4 @ 4" #4 @ 10"	110 28 14"x22" (R) #4 @ 4" #4 @ 10"			585 137 16"x22" (R) 10 #10 #4 @ 10"			465 94 20"x24" (S) 8 #9 #4 @ 10"	66 13 14"x14" (S) #4 @ 4" #4 @ 10"	146 40 22"x14" (R) #4 @ 4" #4 @ 10"	132 28 18"x18" (S) #4 @ 10" #4 @ 10"	70 9 22"x14" (R) #4 @ 4" #4 @ 10"	71 10 22"x14" (R) #4 @ 4" #4 @ 10"	22 1 16"x16" (S) #6 @ 10" #4 @ 10"			681 234 22"x22" (S) 12 #10 #4 @ 10"		639 202 16"x24" (S) 12 #10 #4 @ 10"			
EL. SEE PLAN 1st FLOOR	18"x18" (S) #4 @ 10"	27"x14" (R) #4 @ 4" #4 @ 10"	28"x18" (R) #4 @ 4" #4 @ 10"	32"x18" (R) #4 @ 4" #4 @ 10"	16"x16" (S) #6 @ 10" #4 @ 10"	142 42 14"x14" (S) #4 @ 4" #4 @ 10"	93 23 12"x26" (R) #4 @ 4" #4 @ 10"	213 72 14"x22" (R) #4 @ 4" #4 @ 10"	361 146 14"x22" (R) #4 @ 4" #4 @ 10"				699 237 16"x24" (S) #6 @ 10" #4 @ 10"	698 238 14"x14" (S) #4 @ 4" #4 @ 10"	128 38 14"x14" (S) #4 @ 4" #4 @ 10"			612 147 16"x22" (R) 10 #10 #4 @ 10"			405 75 20"x24" (S) 8 #9 #4 @ 10"	75 15 14"x14" (S) #4 @ 4" #4 @ 10"	172 45 22"x14" (R) #4 @ 4" #4 @ 10"	156 37 18"x18" (S) #4 @ 10" #4 @ 10"	22"x14" (R) #4 @ 4" #4 @ 10"	22"x14" (R) #4 @ 4" #4 @ 10"	16"x16" (S) #6 @ 10" #4 @ 10"	12"x12" (S) 4 #6 @ 10" #4 @ 10"	8 3 12"x12" (S) 4 #6 @ 10" #4 @ 10"	8 3 22"x22" (S) #6 @ 10" #4 @ 10"	699 237 22"x22" (S) #6 @ 10" #4 @ 10"		645 202 16"x24" (S) 12 #10 #4 @ 10"			
EL. SEE PLAN BASEMENT								14"x22" #4 @ 4" #4 @ 10"	417 176 14"x22" #4 @ 4" #4 @ 10"								696 197 16"x22" (R) 12 #10 #4 @ 10"								36 15 12"x22" (S) 4 #6 @ 10" #4 @ 10"	20 9 12"x12" (S) 4 #6 @ 10" #4 @ 10"	772 278 22"x22" (S) 12 #10 #4 @ 10"		686 251 22"x22" (S) 12 #10 #4 @ 10"			
BUTTRESS/PIER DIMENSIONS 'A' x 'B' ALL BUTTRESSES f'c = 4000psi	24"x18" 8 #9 #4 @ 10"	22"x14" 8 #9 #4 @ 10"	28"x18" 8 #9 #4 @ 10"	32"x18" 8 #9 #4 @ 10"	18"x16" 8 #9 #4 @ 10"	28"x19" 8 #9 #4 @ 10"	18"x28" 8 #9 #4 @ 10"						24"x24" 8 #9 #4 @ 10"	14"x20" 8 #9 #4 @ 10"							24"x20" 8 #9 #4 @ 10"	20"x20 1/2" 8 #9 #4 @ 10"	22"x20" 8 #9 #4 @ 10"	18"x24" 8 #9 #4 @ 10"	22"x20" 8 #9 #4 @ 10"	22"x18" 8 #9 #4 @ 10"							28"x28" 8 #9 #4 @ 10"	28"x17" 8 #9 #4 @ 10"		
COLUMN LEVEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35



LEGEND

PROGRESS PRINT
NOT FOR CONSTRUCTION
20-SEP-19



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/28/19	FOUNDATION UPDATE
	08/02/19	DOB FILING / 50% CD

ARCHITECT
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DOB XXXXXX

PROJECT NAME

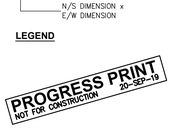
1660 BOONE AVE.

Bronx, New York 10460

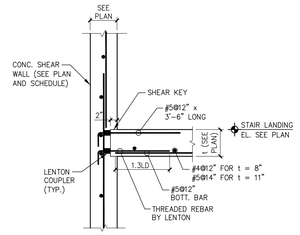
DRAWING TITLE

COLUMN SCHEDULE & DETAILS

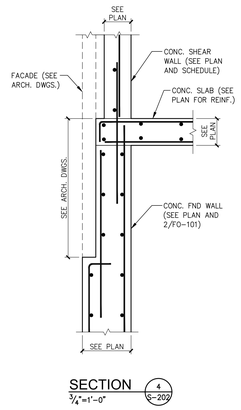
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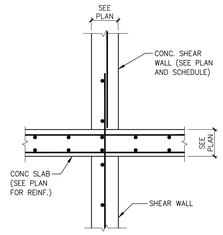
DATE: 08/02/19
PROJECT #: 19051
DWG SCALE: AS NOTED
DRAWING NO.: S-201.00
SHEET 20 OF 22



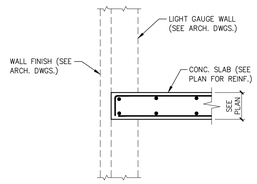
SECTION 5 S-202
3/4"=1'-0"



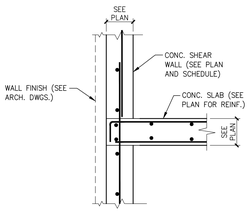
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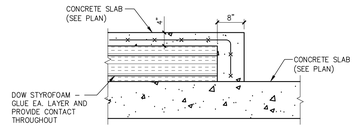
SECTION 3 S-202
3/4"=1'-0"



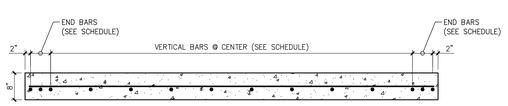
SECTION 2 S-202
3/4"=1'-0"



SECTION 1 S-202
3/4"=1'-0"



SECTION 6 S-202
3/4"=1'-0"



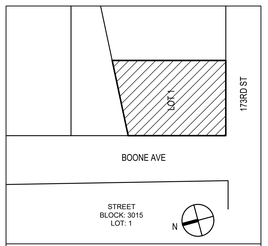
TYPICAL 8" CONC. SHEAR WALL DETAIL
3/4"=1'-0"

CONCRETE SHEARWALL REINFORCEMENT SCHEDULE

		FLOOR									
		CELLAR	1ST	2ND	3RD	4TH	5TH	6TH	ROOF	ELEV. MACH. ROOM	REMARKS
SHEARWALL SW-1	THICKNESS	8"	8"	8"	8"	8"	8"	8"	8"		——
	VERT. BARS	#5@14" @ ℄	#5@14" @ ℄	#5@14" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄		——
	HORIZ. BARS	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄		——
SHEARWALL SW-2	THICKNESS	8"	8"	8"	8"	8"	8"	8"	8"	8"	——
	VERT. BARS	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	——
	HORIZ. BARS	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	——
SHEARWALL SW-3	THICKNESS	8"	8"	8"	8"	8"	8"	8"	8"		——
	VERT. BARS	#5@10" @ ℄	#5@10" @ ℄	#5@10" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄		——
	HORIZ. BARS	#4@10" @ ℄	#4@10" @ ℄	#4@10" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄		——
SHEARWALL SW-A	THICKNESS	8"	8"	8"	8"	8"	8"	8"	8"	8"	——
	VERT. BARS	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	——
	HORIZ. BARS	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	——
SHEARWALL SW-B	THICKNESS	8"	8"	8"	8"	8"	8"	8"	8"	8"	——
	VERT. BARS	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	——
	HORIZ. BARS	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	——
SHEARWALL SW-C	THICKNESS				8"	8"	8"	8"	8"		——
	VERT. BARS				#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄		——
	HORIZ. BARS				#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄		——
SHEARWALL SW-D	THICKNESS		8"	8"	8"	8"	8"	8"	8"		——
	VERT. BARS		#6@10" @ ℄	#6@10" @ ℄	#5@12" @ ℄	#5@12" @ ℄	#4@16" @ ℄	#4@16" @ ℄	#4@16" @ ℄		——
	HORIZ. BARS		#4@10" @ ℄	#4@10" @ ℄	#4@10" @ ℄	#4@10" @ ℄	#4@12" @ ℄	#4@12" @ ℄	#4@12" @ ℄		——

SEE TYPICAL SHEAR WALL REINFORCEMENT DETAILS FOR LOCATION OF BARS.

PROGRESS PRINT
NOT FOR CONSTRUCTION
20-SEP-19



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/28/19	FOUNDATION UPDATE
	08/02/19	DOB FILING / 50% CD

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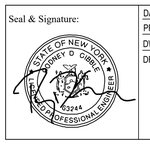
M.E.P. Engineer
SIDERIS KEFALAS ENGINEERS, P.C.
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DOB XXXXXX

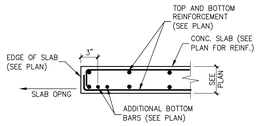
PROJECT NAME
1660 BOONE AVE.
Bronx, New York 10460

DRAWING TITLE
SHEARWALL SCHEDULE & DETAILS

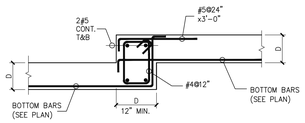
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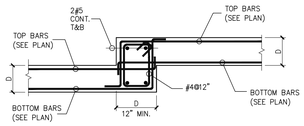
DATE:	08/02/19
PROJECT #:	19051
DWG SCALE:	AS NOTED
DRAWING NO.:	S-202.00
SHEET	21 OF 22



TYPICAL DETAIL AT EDGE OF OPENING IN SLAB



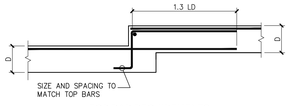
TOP BARS NOT PRESENT



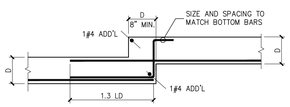
TOP BARS PRESENT

TYPICAL SLAB DROP DETAIL

(DROP > D-2")



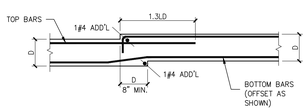
TOP BAR REQUIREMENTS
(IF TOP BARS PRESENT)



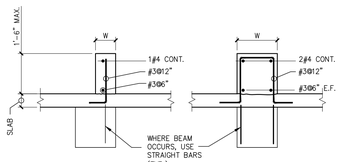
BASIC REQUIREMENTS

TYPICAL SLAB DROP DETAIL

($1\frac{1}{2}$" < DROP < D-2")



TYPICAL SLAB DROP DETAIL
(DROPS UP TO $1\frac{1}{2}$")

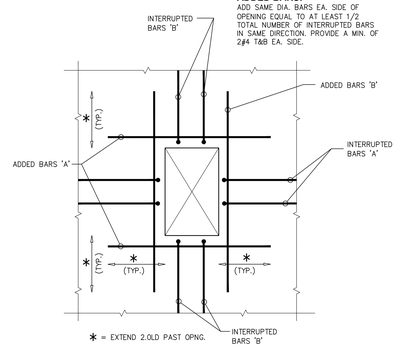


W < 8" **8"≤ W ≤ 12"**

TYPICAL CONCRETE CURB DETAILS

CORNER COLUMN **INTERIOR COLUMN**

TYPICAL DETAIL OF CONCRETE INSERTS FOR EXTERIOR MASONRY WALLS



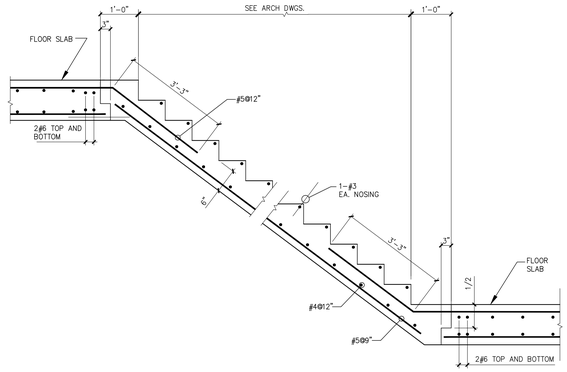
✱ = EXTEND 2.0LD PAST OPNG.

ADDED BARS:
ADD SAME DIA. BARS EA. SIDE OF OPENING EQUAL TO AT LEAST 1/2 TOTAL NUMBER OF INTERRUPTED BARS IN SAME DIRECTION. PROVIDE A MIN. OF 2#4 T&B EA. SIDE.

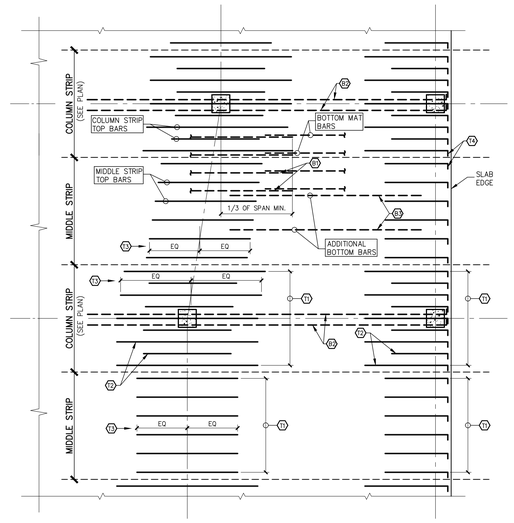
NOTES:
1. HOOK ALL INTERRUPTED BARS.
2. OMIT ADDED BARS FOR 8" OR LESS OPENING AND RUN NORMAL REINFORCING BY SIDE OF OPENING.
3. WHERE OPENINGS ARE NEAR OR AGAINST EXTERIOR BEAMS OR COLUMNS AND ADDED BARS CANNOT BE EXTENDED 2.0LD, HOOK BARS.

TYPICAL DETAIL OF REINFORCEMENT AT OPENING IN SLAB

TYPICAL UNLESS SHOWN OTHERWISE ON PLANS



TYPICAL CONCRETE STAIR DETAIL



REBAR PLACEMENT DETAIL FOR TWO-WAY CONCRETE SLABS

GENERAL REBAR NOTES

1. SEE PLAN FOR COLUMN STRIP WIDTHS. U.O.N. ON PLAN, ALL COLUMN STRIPS SHALL BE CENTERED ON THE COLUMN TO WHICH THEY APPLY.
2. MIDDLE STRIPS CONSIST OF SPACE BETWEEN COLUMN STRIPS.
3. SEE PLAN FOR BAR PLACEMENT SEQUENCE.
4. SEE PLAN FOR TOP BAR QUANTITIES, SIZES AND LENGTHS.
5. SEE PLAN FOR BOTTOM BAR MAT AND ADDITIONAL BOTTOM BARS.
6. LENGTHS GIVEN FOR BARS WITH HOOKS DO NOT INCLUDE HOOK.
7. SEE TYPICAL DETAIL FOR REINFORCING REQUIREMENTS AT SLAB OPENINGS.

TOP BAR NOTES

(Y1) PLACE BARS UNIFORMLY SPACED ACROSS WIDTH OF STRIP U.O.N. ON PLAN.

(Y2) ALTERNATE LONG AND SHORT BARS.

(Y3) U.O.N. ON PLAN, PLACE BARS CENTERED ON LINES BETWEEN COLUMNS.

(Y4) HOOK ALL TOP BARS AT SLAB EDGES AND OPENINGS.

BOTTOM BAR NOTES

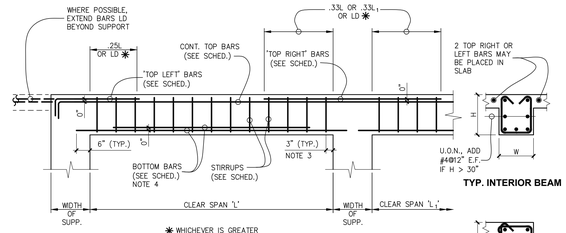
(W) SPLICES FOR MAT BOTTOM BARS SHALL BE 1.3LD AND SHALL NOT BE LOCATED WITHIN MIDDLE 1/3 OF SPANS.

(W2) AT LEAST TWO OF THE COLUMN STRIP BOTTOM BARS IN EACH DIRECTION SHALL PASS WITHIN THE COLUMN CORE AND SHALL BE ANCHORED AT EXTERIOR SUPPORTS. ALL BOTTOM BARS AT COLUMN STRIP SHALL BE ANCHORED AT EXTERIOR SUPPORTS.

(W3) ADDITIONAL BOTTOM BARS SHALL BE CENTERED ON COLUMN LINE AND PLACED BETWEEN MAT BARS AND AT SAME SPACING.

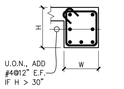
THIS DETAIL SHOWS BARS IN ONE DIRECTION ONLY FOR CLARITY

DENOTES TOP BARS
DENOTES BOTTOM BARS



TYP. INTERIOR BEAM

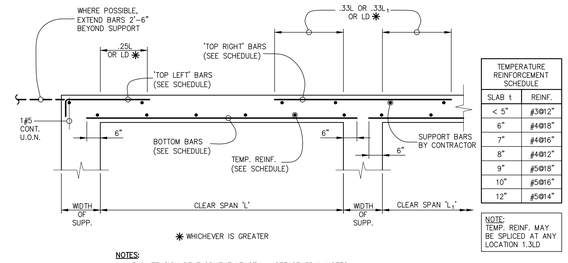
✱ WHICHEVER IS GREATER



TYP. EDGE BEAM

NOTES:
1. LD = TENSION DEVELOPMENT LENGTH – SEE GENERAL NOTES.
2. SEE SCHEDULE FOR BEAM DIMENSIONS AND REINFORCING.
3. IF STIRRUP SPACING IS LESS THAN 6", PLACE FIRST STIRRUP 1/2 SPACING FROM FACE OF SUPPORT. IF BEAM IS MORE THAN 6" WIDER THAN COLUMN ON EITHER SIDE, PROVIDE STIRRUPS ACROSS COLUMN.
4. NOT MORE THAN 50% OF BOTTOM BARS MAY BE TERMINATED 0.125L FROM FACE OF EACH SUPPORT. PROVIDE MIN. OF 2 BARS FULL LENGTH.
5. LONGITUDINAL BARS MAY ONLY BE PLACED IN MULTIPLE LAYERS IF NOTED IN SCHEDULE. PROVIDE 1" CLEAR BETWEEN LAYERS.
6. CONTINUOUS TOP BARS MAY BE SPLICE 30ø AT MID SPAN OF BEAM.

TYPICAL CONCRETE BEAM DETAIL



✱ WHICHEVER IS GREATER

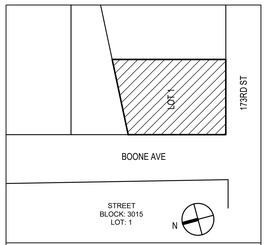
TEMPERATURE REINFORCEMENT SCHEDULE	
SLAB t	REINF.
< 5"	#3@12"
6"	#4@18"
7"	#4@16"
8"	#4@12"
9"	#5@18"
10"	#5@16"
12"	#5@14"

NOTE:
TEMP. REINF. MAY BE SPLICED AT ANY LOCATION 1.3LD

NOTES:
1. LD = TENSION DEVELOPMENT LENGTH – SEE GENERAL NOTES.
2. 50% OF BOTTOM BARS MAY BE TERMINATED 0.125 x CLEAR SPAN SHORT OF FACE OF INTERIOR SUPPORTS.

TYPICAL ONE-WAY CONCRETE SLAB DETAIL

PROGRESS PRINT
NOT FOR CONSTRUCTION
20-SEP-19



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/28/19	FOUNDATION UPDATE
	08/02/19	DOB FILING / 50% CD

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DOB XXXXXX

PROJECT NAME
1660 BOONE AVE.
Bronx, New York 10460

DRAWING TITLE
TYPICAL DETAILS

Seal & Signature:



DATE: 08/02/19
PROJECT #: 19051
DWG SCALE: AS NOTED
DRAWING NO.: S-203.00
SHEET 22 OF 22

MECHANICAL LEGEND and ABBREVIATIONS

A.D.	ACCESS DOOR	U.H.	UNIT HEATER
CFM	CUBIC FT/MIN. AIR	D.H.W. HTR.	DOMESTIC HOT WATER HEATER
S.A.	SUPPLY AIR	R.T.U.	ROOF TOP UNIT
R.A.	RETURN AIR	A.H.A.P.	AS HIGH AS POSSIBLE
O.A.	OUTSIDE AIR	A.C.	AIR CONDITIONING
O.S.A.		A.C.U.	AIR CONDITIONING UNIT
M.U.A.U	MAKE-UP AIR UNIT	A.C.C.U.	AIR COOLED CONDENSING UNIT
C.D.	CEILING DIFFUSER	H.V.A.C.	HEATING VENTILATING AND AIR CONDITIONING
R.A.G.	RETURN AIR GRILLE	P.T.A.C.	PACKAGE TERMINAL AIR CONDITIONING UNIT
R.A.R.	RETURN AIR REGISTER	D. OR DR.	DRAIN
S.W.R.	SIDE WALL REGISTER	HTG.	HEATING
E.G.	EXHAUST GRILLE	A.V.	AIR VENT
M.V.D.	MANUAL VOLUME DAMPER	V.	VENT
B.D.D.	BACK DRAFT DAMPER	EXH.	EXHAUST
C.O.	CLEAN OUT	L.H.	LOW PRESSURE OR LOW POINT
A.P.	ACCESS PANEL	LBS.	POUNDS
WGT.	WEIGHT	R.P.M.	ROTATION PER MINUTE
C.B.	CIRCUIT BREAKER	B.O.S.	BOTTOM OF STEEL
D.S.	DISCONNECT SWITCH	° F	DEGREES FAHRENHEIT
F.D.	FIRE DAMPER OR FLOOR DRAIN OR FIRE DEPT.	RH	RELATIVE HUMIDITY
U.T.R.	UP THRU ROOF	C.V.	CONTROL VALVE
D.T.R.	DOWN THRU ROOF	E.F.	EXHAUST FAN
W/	WITH	S.E.F.	SMOKE EXHAUST FAN
EXIST.	EXISTING	E.S.P.	EXTERNAL STATIC PRESSURE
V.V.T.	VOLUME VARIABLE TEMPERATURE	BTUH	BRITISH THERMAL UNIT PER HOUR
P.O.C.	NEW POINT OF CONNECTION	MBH	THOUSAND OF BTU PER HOUR
(L)	LINED DUCT	N.A.	NOT APPLICABLE
TYP.	TYPICAL	EVAP.	EVAPORATOR
GA.	GAUGE	D.B.	DRY BULB
HR.	HOUR	W.B.	WET BULB
R.O.	ROUGH OPENING	IN.	INCHES
H.P.	HORSE POWER OR HIGH PRESSURE	H 0	WATER
S.P.	STATIC PRESSURE OR SECONDARY PIPING	DWG.	DRAWING
O.B.D.	OPPOSED BLADE DAMPER	Ø	DIAMETER
P.L.	PLENUM	W.M.S.	WIRE MESH SCREEN
C.P.	A/C UNIT CONTROL PANEL	A.S.M.E.	AMERICAN SOCIETY OF MECHANICAL ENGINEERING
A.F.F.	ABOVE FINISHED FLOOR	MIX.	MIXING
	SUPPLY AIR DUCT	V.C.	VACUUM BREAKER
	RETURN AIR DUCT	V.A.V.	VARIABLE AIR VOLUME
		R.V.	RELIEF VALVE
	SUPPLY DUCTWORK GOING UP	H.W.P.	HOT WATER PUMP
		R.O.	ROOF OPENING
		W.G.	WATER GAUGE
	RETURN OR EXHAUST DUCTWORK GOING UP	W.C.	WATER COLUMN
		B.H.	BOTTOM HORIZONTAL
	SUPPLY DUCTWORK GOING DOWN	B.A.U.	BOTTOM ANGULAR UP
		U.B.	UP BLAST
	RETURN OR EXHAUST DUCTWORK GOING DOWN	T.A.U.	TOP ANGULAR UP
		T.A.D.	TOP ANGULAR DOWN
OR	FLEXIBLE CONNECTION	D.B.	DOWN BLAST
		B.A.D.	BOTTOM ANGULAR DOWN
	SUPPLY DUCTWORK GOING UP	O.V.	OUTLET VELOCITY
		P.S.I.	POUNDS PER SQUARE INCH
	RETURN OR EXHAUST DUCTWORK GOING UP	C.O.D.	CONTINUATION ON DWG.
		P.C.	PLUMBING CONTRACTOR
	RETURN OR EXHAUST DUCTWORK GOING UP	G.C.	GENERAL CONRATCTOR
		X B.I.S.W.	BACKWARD INCLINED BLADES CENTRIFUGAL FAN OF SINGLE WIDTH AND OF WHEEL DIAMETER X
	RETURN OR EXHAUST DUCTWORK GOING DOWN	X F.C.S.W.	FORWARD CURVED BLADES CENTRIFUGAL FAN OF SINGLE WIDTH AND OF WHEEL DIAMETER X
8x5	NEW SHEETMETAL DUCTWORK	X A.F.D.W.	CENTRIFUGAL FAN WITH AIR FOIL BLADES DOUBLE WIDTH AND OF WHEEL DIAMETER X
VD	VOLUME DAMPER	X D.W.D.I.	DOUBLE WIDTH AND DOUBLE INLET CENTRIFUGAL FAN OF WHEEL DIAMETER X
FD	FIRE DAMPER		
M	MOTORIZED DAMPER	T	THERMOSTAT
SD	SMOKE DETECTOR		CENTRIFUGAL FAN OR PUMP
	CEILING MOUNTED SUPPLY AIR DIFFUSER WITH OPPOSED BLADE DAMPER		MUSHROOM TYPE FAN ON ROOF
	CEILING MOUNTED RETURN AIR REGISTER WITH OPPOSED BLADE DAMPER		MUSHROOM TYPE FAN ON WALL

MECHANICAL GENERAL NOTES

1. GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL HVAC DRAWINGS..
2. DRAWINGS ARE DIAGRAMMATIC. DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN THE FIELD. RELOCATE EXISTING WORK THAT INTERFERES WITH WORK OF THIS CONTRACT.
3. COORDINATE THIS WORK WITH THAT OF OTHER TRADES.
4. DIMENSIONS SHOWN ON PLAN ARE HORIZONTAL. DIMENSIONS SHOWN IN ELEVATION ARE VERTICAL EXCEPT IN RESPECT TO STRUCTURAL STEEL, DIMENSIONS ARE MEASURED PERPENDICULAR TO FLANGE.
5. NEITHER ACCURACY NOR COMPLETION OF SERVICES AND UTILITY LOCATIONS SHOWN ON DRAWINGS IS GUARANTEED. DETERMINE EXACT LOCATIONS OF EXISTING SERVICES AND UTILITIES IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
6. MANUFACTURERS MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
7. PRODUCT INSTALLATION SHALL ADHERE TO MANUFACTURERS RECOMMENDATIONS.
8. PROVIDE ACCESS PANELS FOR EQUIPMENT THAT REQUIRES PERIODIC SERVICE.
9. PROVIDE HANGERS, INSERTS, ANCHORS, SUPPLEMENTAL STEEL & SUPPORTS AS REQUIRED TO SUPPORT DUCTWORK, PIPING AND EQUIPMENT FROM STRUCTURE..
10. COORDINATE ROOF PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS. MECHANICAL CONTRACTOR TO NOTIFY OWNER PRIOR TO STARTING WORK TO VERIFY COMPLIANCE WITH BOND AND WARRANTY OF EXISTING ROOF.
11. RUN DUCTS AND PIPING CONCEALED, UNLESS OTHERWISE SPECIFIED AND CLEAR OF CEILING INSERTS.
12. INSTALL THERMOSTATS 4'-6" ABOVE FINISHED FLOOR AT LOCATION SHOWN ON PLAN .
13. STRUCTURAL WIELDING SHALL BE CONTINUOUS 1/4" FILLET UNLESS REQUIRED OTHERWISE.

AIR SYSTEMS

14. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DIFFUSERS & GRILLES.
15. ALL DUCTWORK DIMENSIONS SHOWN ARE MINIMUM INSIDE DIMENSIONS ONLY.
16. USE FLAT TRANSVERSE SEAM FOR DUCT WORK WHERE SPACE AVAILABLE DICTATES.
17. DIFFUSER SIZES SHOWN ARE NECK SIZES. REGISTERS AND GRILLE SIZES ARE NOMINAL.
18. PROVIDE VOLUME DAMPERS OR OTHER APPROVED BALANCING DEVICES AT DUCT BRANCHES AND RUN OUTS, AND AT REGISTER GRILLE AND DIFFUSER NECKS IN SUPPLY, RETURN AND EXHAUST DUCTWORK WHETHER OR NOT SHOWN.
19. DUCTWORK DOWNSTREAM OF ALL AHU'S SHALL BE ACOUSTICALLY LINED WITH 1" ACOUSTICAL LINING FOR A MINIMUM OF 15 FEET.
20. PROVIDE 36" CLEARANCE IN FRONT OF ALL ELECTRIC CONTROL PANELS PER N.E.C. AND MFG. REQUIREMENTS.

PIPING SYSTEMS

21. PITCH PIPING 1-INCH IN 20-FEET, IN DIRECTION OF FLOW.
22. PROVIDE TRAPS IN CONDENSATE LINES THAT EXTEND OVER 2-FEET.

DUCTWORK INSULATION SCHEDULE

DUCT SYSTEM	MINIMUM R-VALUE	INSULATION MATERIAL	REQUIRED COMPLIANCE
DUCT LOCATED WITHIN UNCONDITIONED SPACE	R-3.5	MINERAL FIBER BLANKET WITH FSK JACKET	ASTM C 1290, TYPE III
DUCT LOCATED OUTSIDE OF THE BUILDING	R-6	MINERAL FIBER BLANKET WITH FSK JACKET	ASTM C 1290, TYPE III
DUCT LOCATED WITHIN CONDITIONED SPACE	NOT APPLICABLE	MINERAL FIBER BLANKET WITH FSK JACKET	ASTM C 1290, TYPE III

NOTE1: FIBERGLASS INSULATION: THERMAL CONDUCTIVITY .22 TO. 28 BTU x IN/H x FT x F W/100F MEAN TEMP,
THICKNESS BASED ON ASHRAE 90.1 2013 TABLE 6.8.2-2 AND SECTION 6.4.4.1.2

NOTE 2: REFER TO BOOK SPECIFICATION, WHERE APPLICABLE, FOR ADDITIONAL INFORMATION.

DUCTWORK SEALING REQUIREMENTS

ALL LOW-PRESSURE DUCTWORK (OPERATING AT LESS THAN OR EQUAL TO 2-INCHES WATER GAUGE) SHALL BE SEALED WITH SEAL CLASS A AS REQUIRED TO MEET THE REQUIREMENTS OF SECTION 6.4.4.2.2 AND WITH STANDARD INDUSTRY PRACTICE.OPENINGS FOR ROTATING SHAFTS SHALL BE SEALED WITH BUSHINGS OR OTHER DEVICES THAT SEAL OFF AIR LEAKAGE.PRESSURE SENSITIVE TAPE SHALL NOT BE USED AS THE PRIMARY SEALANT UNLESS IT HAS BEEN CERTIFIED TO COMPLY WITH UL-181A OR UL-181B BY AN INDEPENDENT TESTING LABORATORY AND THE TAPE IS USED IN ACCORDANCE WITH THAT CERTIFICATIONS.ALL CONNECTIONS SHALL BE SEALED, INCLUDING BUT NOT LIMITED TO SPIN-INS, TAPS, OTHER BRANCH CONNECTIONS, ACCESS DOOR, ACCESS PANELS AND DUCT CONNECTIONS TO EQUIPMENT. SEALING THAT WOULD VOID PRODUCT LISTING IS NOT REQUIRED. SPIRAL LOCK SEAMS NEED TO BE SEALED.ALL DUCT PRESSURE RATING SHALL BE DESIGNATED IN THE DESIGN DOCUMENTS

MASTIC SHALL BE LOW-VOC OR EQUIVALENT, UL-181 COMPLIANT MATERIAL AND INSTALLED ACCORDING TO MANUFACTURER'S REQUIREMENT. DO NOT APPLY MASTIC IN CONDITIONS BELOW RECOMMENDED TEMPERATURE RANGE.

THE ABOVE REQUIREMENTS ARE IN ACCORDANCE WITH ASHRAE 90.1-2013 SECTION 6.4.4.2.1

MECHANICAL PIPING INSULATION SCHEDULE

PIPING SYSTEM	OPERATING RANGE	NOMINAL PIPE OR TUBE SIZE				INSULATION MATERIAL
		< 1"	1 to 1-1/2"	1-1/2 to <4"	4 to <8"	
STEAM SUPPLY (ACTUAL TEMP: 212°F)	201 -250	2.5"	2.5"	2.5"	3.0"	MINERAL FIBER BLANKET WITH FSK JACKET
STEAM RETURN (ACTUAL TEMP: BELOW 200°F)	141 - 200	1.5"	1.5"	2.0"	2.0"	MINERAL FIBER BLANKET WITH FSK JACKET
REFRIGERANT LIQUID LINE (ACTUAL 60 TO 105°F)	105 - 140	1.0"	1.0"	1.5"	1.5"	MINERAL FIBER BLANKET WITH FSK JACKET
HOT GAS LINE (ACTUAL 141 TO 200°F)	141 - 200	1.5"	1.5"	2.0"	2.0"	MINERAL FIBER BLANKET WITH FSK JACKET
DEDICATED SUCTION LINE (ACTUAL 40 TO 60°F)	40 - 60	0.5"	0.5"	1.0"	1.0"	MINERAL FIBER BLANKET WITH FSK JACKET
CONDENSATE DRAIN (ACTUAL 55°F)	40 - 60	0.5"	0.5"	1.0"	1.0"	MINERAL FIBER BLANKET WITH FSK JACKET

NOTE1: FIBERGLASS INSULATION: THERMAL CONDUCTIVITY .22 TO. 28 BTU x IN/H x FT x F W/100F MEAN TEMP,
THICKNESS BASED ON ASHRAE 90.1-2013 TABLE 6.8.3-1 AND 6.8.3-2 AND SECTION 6.4.4.1.2

NOTE 2: REFER TO BOOK SPECIFICATION, WHERE APPLICABLE, FOR ADDITIONAL INFORMATION.

DOB MECHANICAL CODE NOTES

1. ALL WORK SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE BUILDING CODE, CITY OF NEW YORK, EFFECTIVE OCTOBER 1, 2014 INCLUSIVE OF ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE.

2. MATERIALS AND EQUIPMENT SUBJECT TO SPECIAL INSPECTION:
   A. MECHANICAL VENTILATION, AIR CONDITIONING AND REFRIGERATION
      1) INSPECTION AND TESTS OF THE REQUIRED VENTILATION SYSTEMS AS PER NYC MC CHAPTER 4
      2) INSPECTION AND TESTS OF THE REFRIGERATION SYSTEMS AS PER NYC MC, CHAPTER 11, SECTION 1109.
   B. HIGH PRESSURE STEAM PIPING PER THE RULES AND REGULATIONS PERTAINING TO HIGH PRESSURE STEAM PIPING.

3. THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC. SHALL COMPLY WITH THE FOLLOWING CODE CHAPTER AND SUB-SECTION OF THE NYC MECHANICAL CODE:

STANDARDS OF HEATING	CHAPTER 3, SECTION 312
HEATING CAPACITY	CHAPTER 3, SECTION 312
NOISE CONTROL	CHAPTER 9, SECTION 926
NOISE CRITERIA LEVELS AND TEST PROCEDURES	CHAPTER 9, SECTION 926
DUCT CONSTRUCTION SUPPORTS, AIR INTAKES, EXHAUSTS AND RELIEFS	CHAPTER 5, 6, 7, and 8
SEGREGATION OF AIR SUPPLY FOR CORRIDORS AND MEANS OF EGRESS AND DIFFERENT OCCUPANCY GROUPS	CHAPTER 6
AIR FILTERS, FANS, AIR COOLING AND HEATING EQUIPMENT	CHAPTER 6
ELECTRIC WIRING	NYC ELECTRIC CODE

4. MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON: 70° F WHEN 15° F OUTSIDE WITH 15 MPH WIND BLOWING.

5. THE OUTDOOR AIR VENTILATION RATE FOR ALL AREAS SHALL COMPLY WITH THE MINIMUM CRITERIA SET FORTH IN CHAPTER 4, TABLE 403.3.

6. ALL TOILET AND BATHROOMS SHALL BE VENTILATED IN ACCORDANCE WITH CHAPTER 4, TABLE 403.3.

7. UPON COMPLETION OF THIS VENTILATION SYSTEM A TEST SHALL BE CONDUCTED IN THE PRESENCE OF AND UNDER THE DIRECT SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER (OR REGISTERED ARCHITECT) QUALIFIED TO CONDUCT SUCH TESTS. FOR SYSTEMS OF LESS THAN 5,000 CFM THE INSPECTION MAY BE BY A PERSON HAVING NOT LESS THAN FIVE YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF VENTILATING SYSTEMS. THE CONTRACTOR WILL BE REQUIRED TO RETAIN THE SERVICE OF THE PROPER PERSON TO CONDUCT THE TEST. THE TESTS SHALL SHOW COMPLIANCE WITH THE CODE REQUIREMENTS FOR VENTILATION AND THE PROPER FUNCTIONING OF ALL SMOKE DETECTION, FIRE PROTECTION AND OPERATING DEVICES BEFORE THE SYSTEM IS ACCEPTED.
   THE LICENSED PROFESSIONAL ENGINEER (OR REGISTERED ARCHITECT) WHO CONDUCTS THE TESTS SHALL FILE A CERTIFICATE AS TO WHETHER THE SYSTEM COMPLIES WITH THE APPLICABLE LAWS. HE SHALL ALSO FILE A REPORT OF THE TEST. THE TEST REPORT SHALL BE PRODUCED IN A MANNER SATISFACTORY TO THE COMMISSIONER OF BUILDINGS.

8. A STATEMENT SHALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE VENTILATING SYSTEMS WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING THE NORMAL OCCUPANCY OF THE BUILDING AS REQUIRED BY CODE.

9. ALL VENTILATING AND AIR CONDITIONING DUCTWORK, BOTH LOW AND HIGH VELOCITY, TO BE CONSTRUCTED IN ACCORDANCE WITH THE DUCT MANUALS OF SMACNA.

10. DUCT SUPPORT SHALL BE IN COMPLIANCE WITH NYC MECHANICAL CODE CHAPTER 6, SECTION 603.

11. FIRE DAMPERS SHALL BE PROVIDED AT ALL OUTDOOR AIR INTAKES AS PER NYC MECHANICAL CODE CHAPTER 4, SECTION 401.5.1 AND ALL DUCTS PENETRATING FIRE-RATED PARTITIONS AS PER NYC MECHANICAL CODE CHAPTER 6.

12. ALL FIRE DAMPERS SHALL BE APPROVED NY THE *NYC BOARD OF STANDARDS AND APPEALS* AND SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH UL 555 (STANDARD FOR FIRE DAMPERS AND CEILING DAMPERS, 3rd EDITION).

13. SMOKE DETECTORS AND SMOKE DAMPERS SHALL BE INSTALLED AS REQUIRED IN NYC MECHANICAL CODE CHAPTER 4, SECTION 401.5.1 AND CHAPTER 5. DAMPER OPERATION SHALL CONFORM WITH CHAPTER 5 AND 6.

14. ALL SMOKE DAMPERS SHALL BE APPROVED NY THE *NYC BOARD OF STANDARDS AND APPEALS* AND SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH UL 555S-1983 (STANDARD FOR LEAKAGE RATED DAMPERS FOR USE IN SMOKE CONTROL SYSTEMS, 1st EDITION).

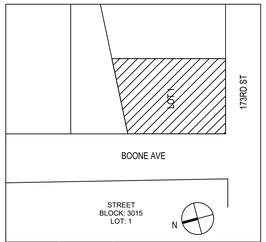
15. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE-RATED PARTITION LOCATIONS AND RATED CONSTRUCTION.

16. TESTS OF SOUND POWER LEVELS OF MECHANICAL EQUIPMENT SHALL BE CONDUCTED AND RESULTS SUBMITTED AS REQUIRED BY THE NYC MECHANICAL CODE CHAPTER 9, SECTION 926; NOISE CRITERIA LEVELS AND TEST PROCEDURES FOR SOUND POWER LEVEL SHALL COMPLY WITH NYC MECHANICAL CODE CHAPTER 9, SECTION 926.

MECH MAINTENANCE INFO

MAINTENANCE INSTRUCTIONS SHALL BE FURNISHED FOR EQUIPMENT AND SYSTEMS THAT REQUIRE PREVENTATIVE MAINTENANCE. REQUIRED REGULAR MAINTENANCE ACTIONS SHALL BE CLEARLY STATED AND INCORPORATED ON A READILY ACCESSIBLE LABEL. THE LABEL SHALL INCLUDE THE TITLE OR PUBLICATION NUMBER FOR THE OPERATION AND MAINTENANCE MANUAL FOR THAT PARTICULAR MODEL AND TYPE OF PRODUCT.

1. A COMPREHENSIVE OPERATING AND MAINTENANCE MANUAL MUST BE PROVIDED TO THE BUILDING OWNER BY THE MECHANICAL CONTRACTOR. THE MANUAL SHALL INCLUDE, AT MINIMUM, THE FOLLOWING:
   A. EQUIPMENT CAPACITY (INPUT AND OUTPUT) AND REQUIRED MAINTENANCE ACTIONS.
   B. EQUIPMENT OPERATION AND MAINTENANCE MANUALS.
   C. HVAC SYSTEM CONTROL MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD DETERMINED SET POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS, AT CONTROL DEVICES, OR FOR DIGITAL CONTROL SYSTEMS, IN THE PROGRAMMING COMMENTS.
   D. A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.



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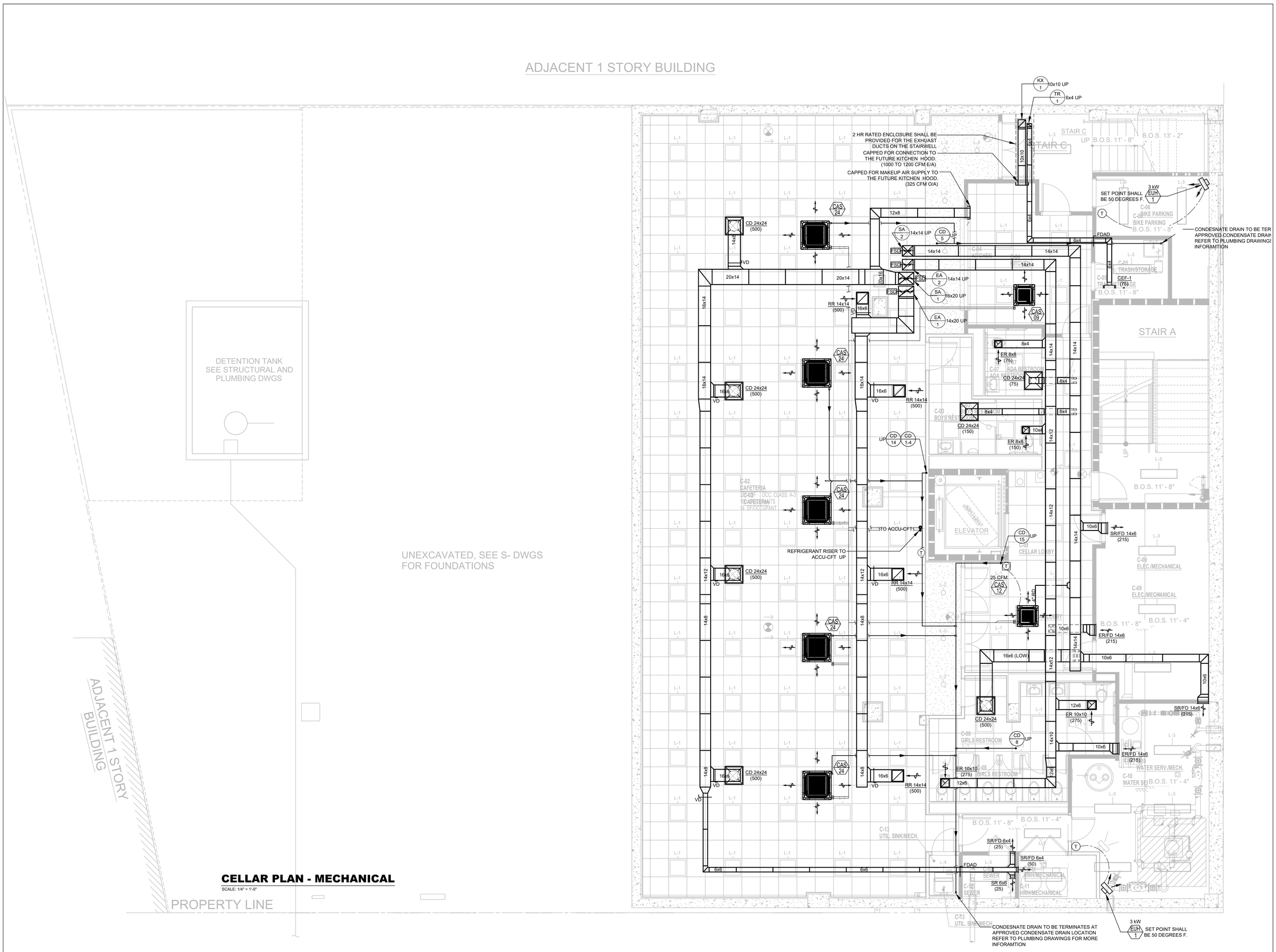
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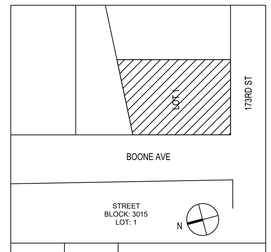
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CELLAR PLAN - MECHANICAL

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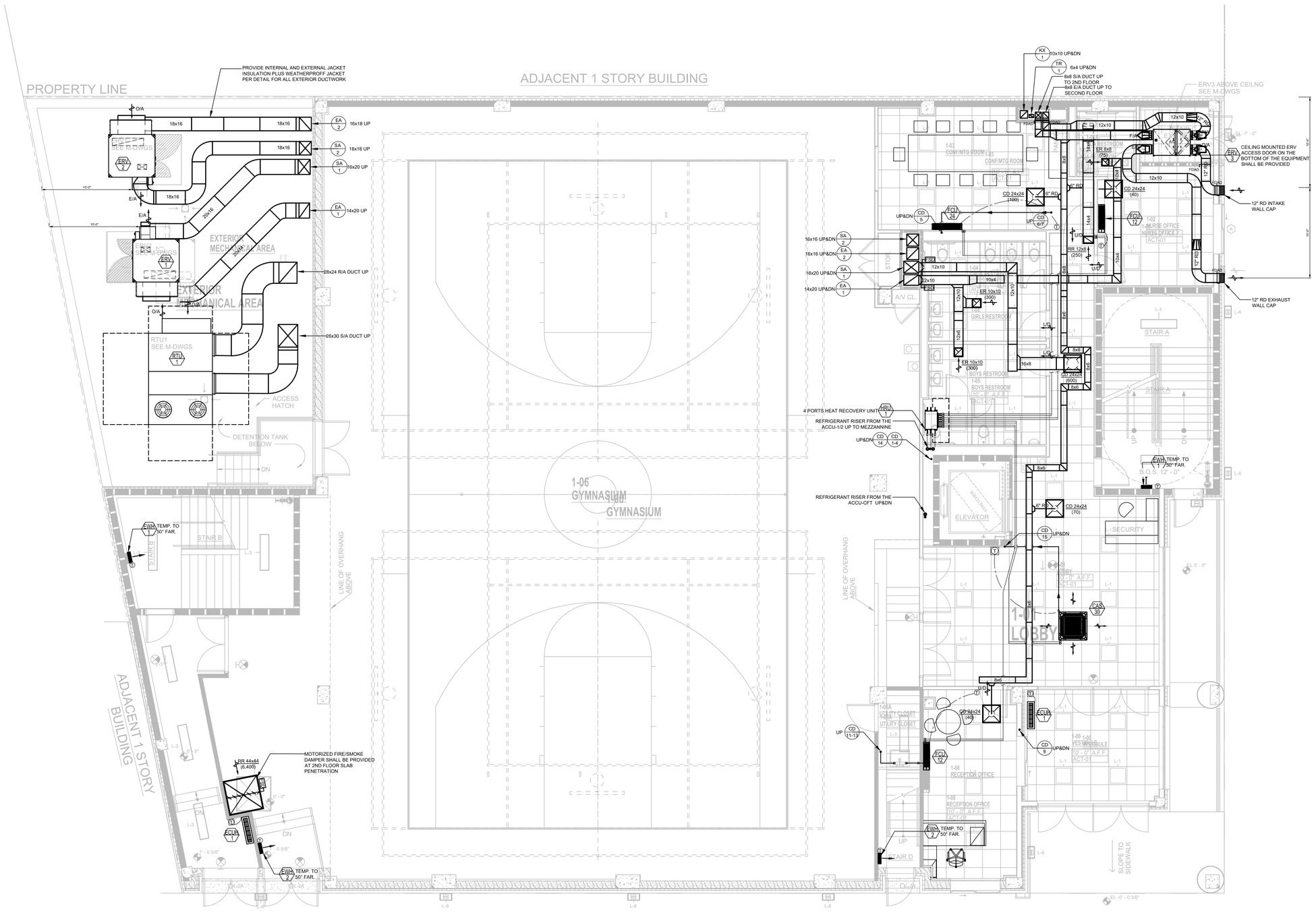
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CELLAR MECHANICAL PLAN

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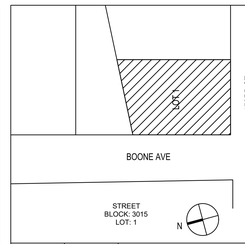
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FIRST FLOOR PLAN - MECHANICAL

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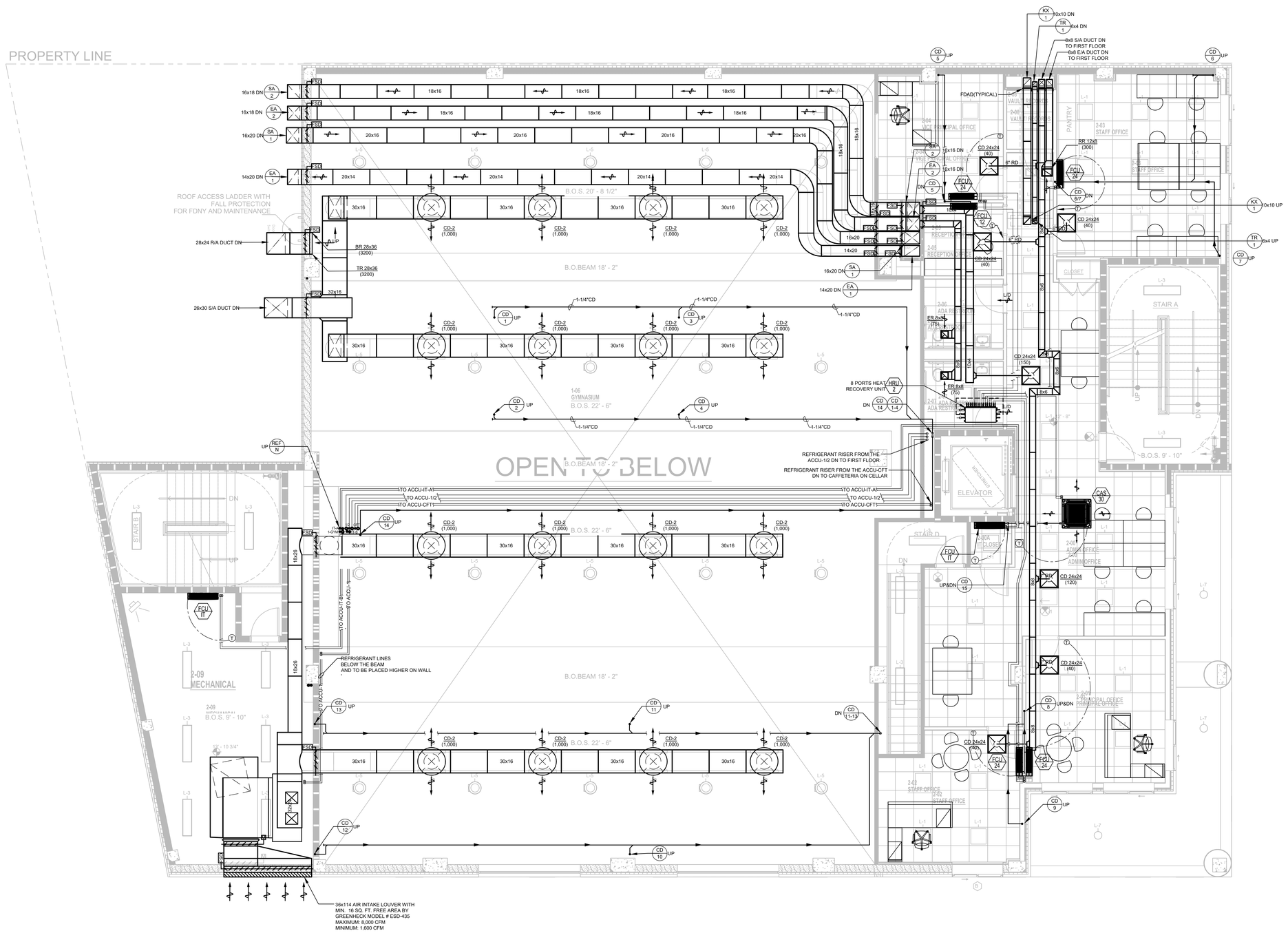
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FIRST FLOOR MECHANICAL PLAN

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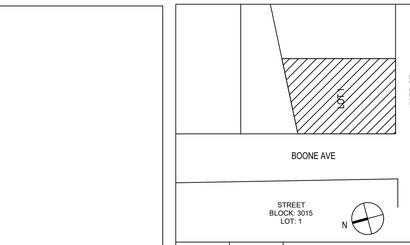
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SECOND FLOOR (ADMIN.) PLAN - MECHANICAL

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SECOND FLOOR (ADMIN.) MECHANICAL PLAN

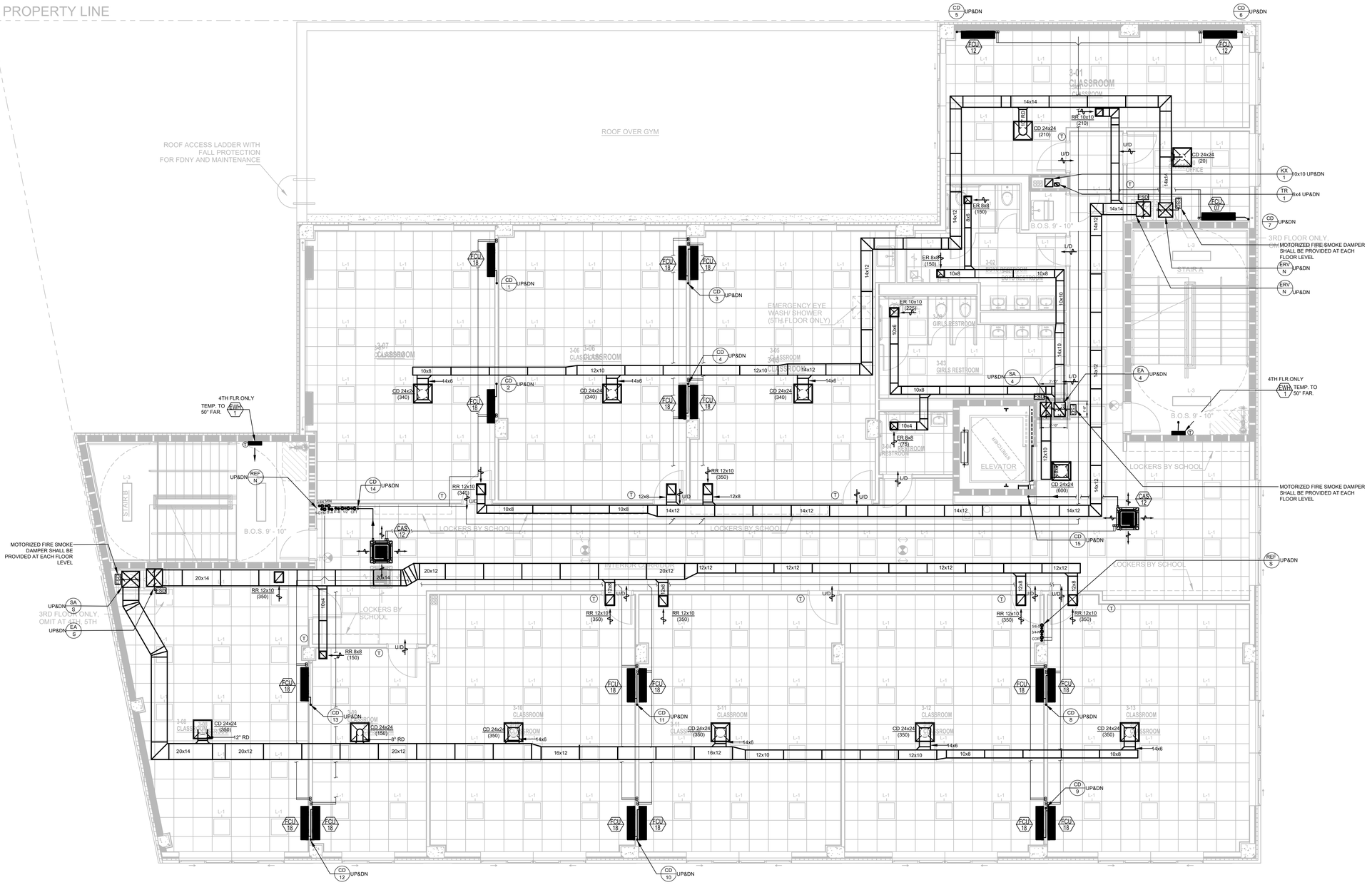
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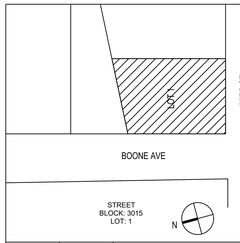
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THIRD THRU FIFTH FLOOR PLAN - MECHANICAL

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DRAWING TITLE

THIRD THRU FIFTH FLOOR MECHANICAL PLAN

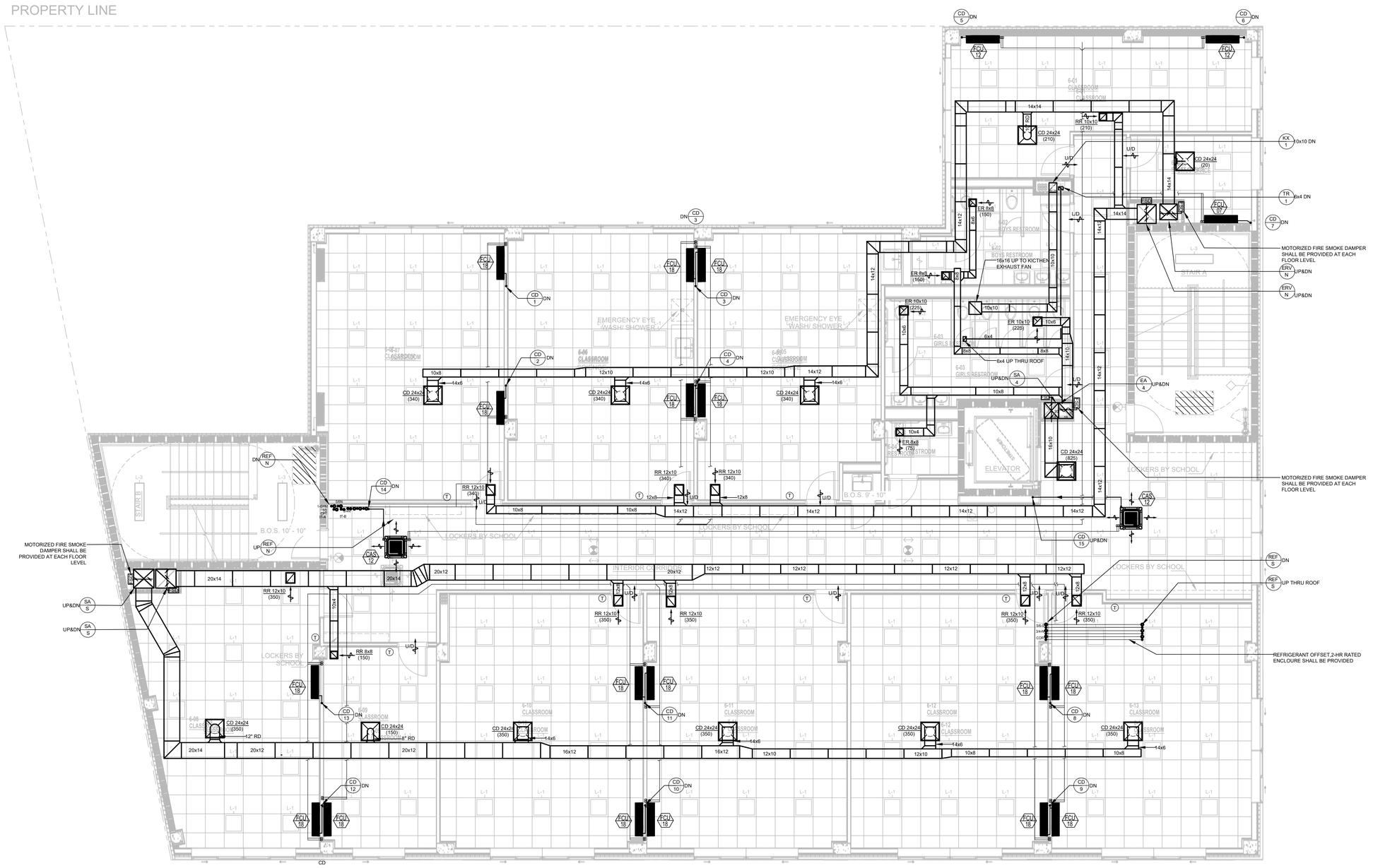
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PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:

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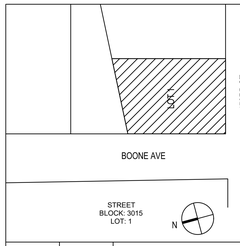
SHEET 05 OF 18

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SIXTH FLOOR PLAN - MECHANICAL

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



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

ARCHITECT
Stephen B. Jacobs Group, P.C.
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DOB XXXXXX

PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

SIXTH FLOOR MECHANICAL PLAN

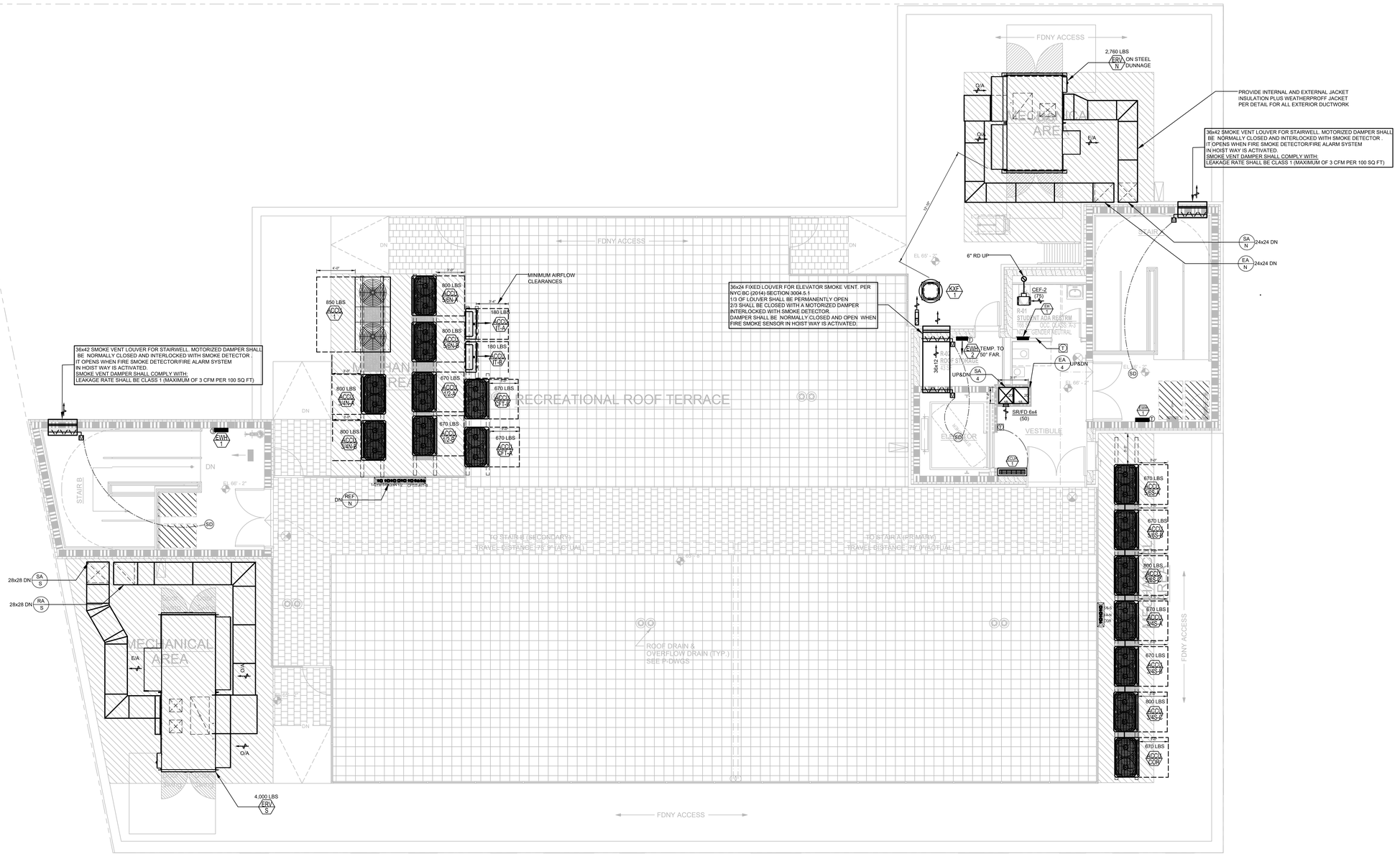
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DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:

M-104.00

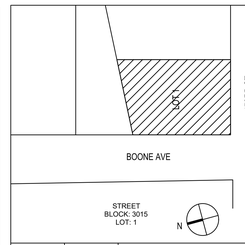
SHEET 06 OF 18

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ROOF FLOOR PLAN - MECHANICAL

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



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

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DOB XXXXXX

PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

ROOF FLOOR MECHANICAL PLAN

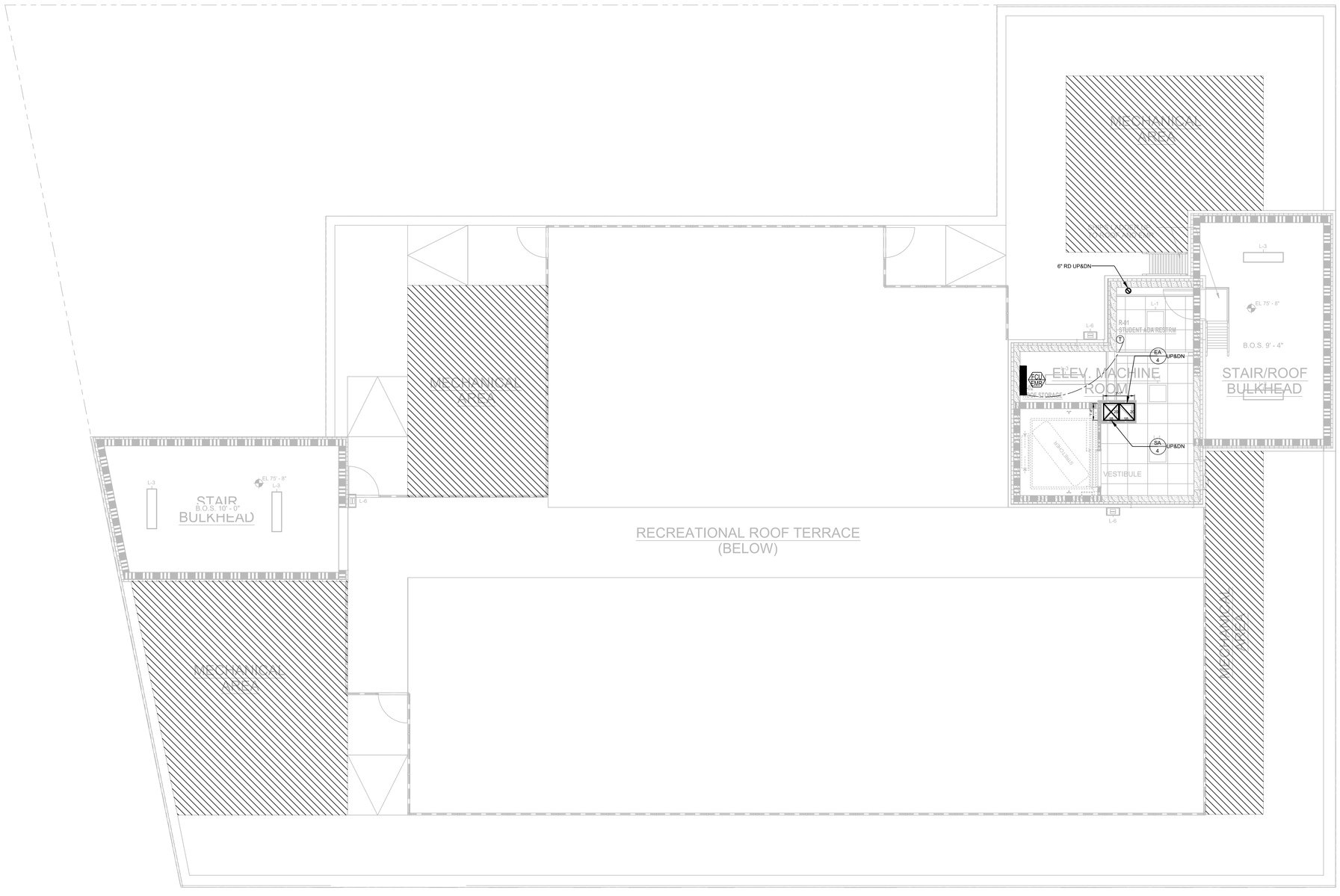
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PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:

M-105.00

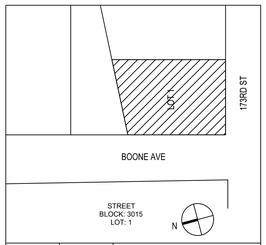
SHEET 07 OF 18

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BULKHEAD ROOF PLAN - MECHANICAL

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



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

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DOB XXXXXX

PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

BULKHEAD ROOF MECHANICAL PLAN

Seal & Signature:

DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:

M-106.00

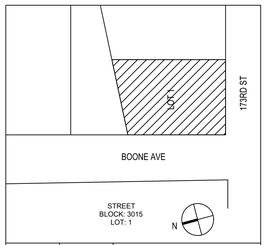
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ELEVATOR OVERRUN BULKHEAD ROOF PLAN - MECHANICAL

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



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

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DOB XXXXXX

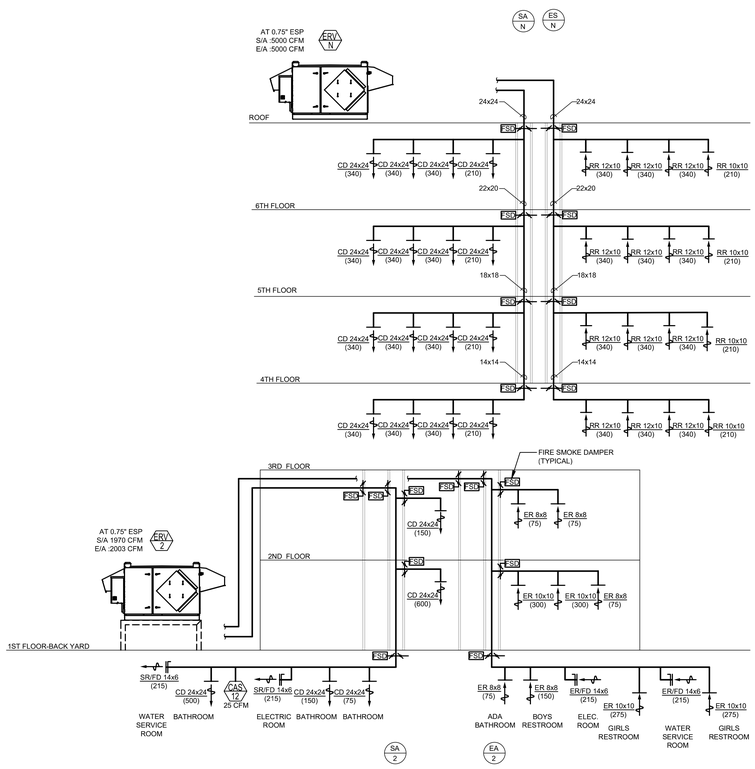
PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
ELEVATOR OVERRUN BULKHEAD ROOF MECHANICAL PLAN

Seal & Signature:

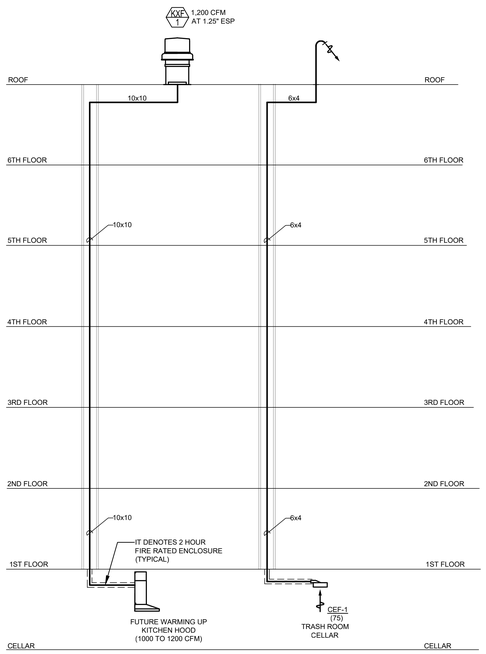
DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:
M-107.00
SHEET 09 OF 18

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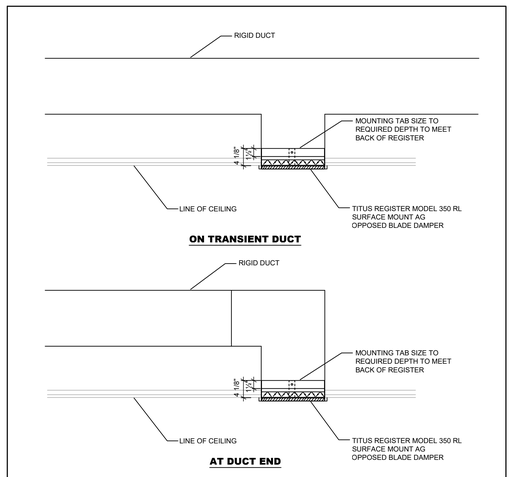
VENTILATION RISER DIAGRAM

SCHEMATIC ONLY



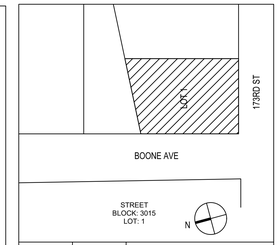
VENTILATION RISER DIAGRAM

SCHEMATIC ONLY



CEILING EXHAUST REGISTER DETAIL

NOT TO SCALE



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
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DOB XXXXXX

PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

VENTILATION RISER DIAGRAM

Seal & Signature:

DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:

M-210.00

SHEET 10 OF 18

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A/C REFRIGERANT AND CONTROL WIRING DIAGRAMS

ACCU-1/2

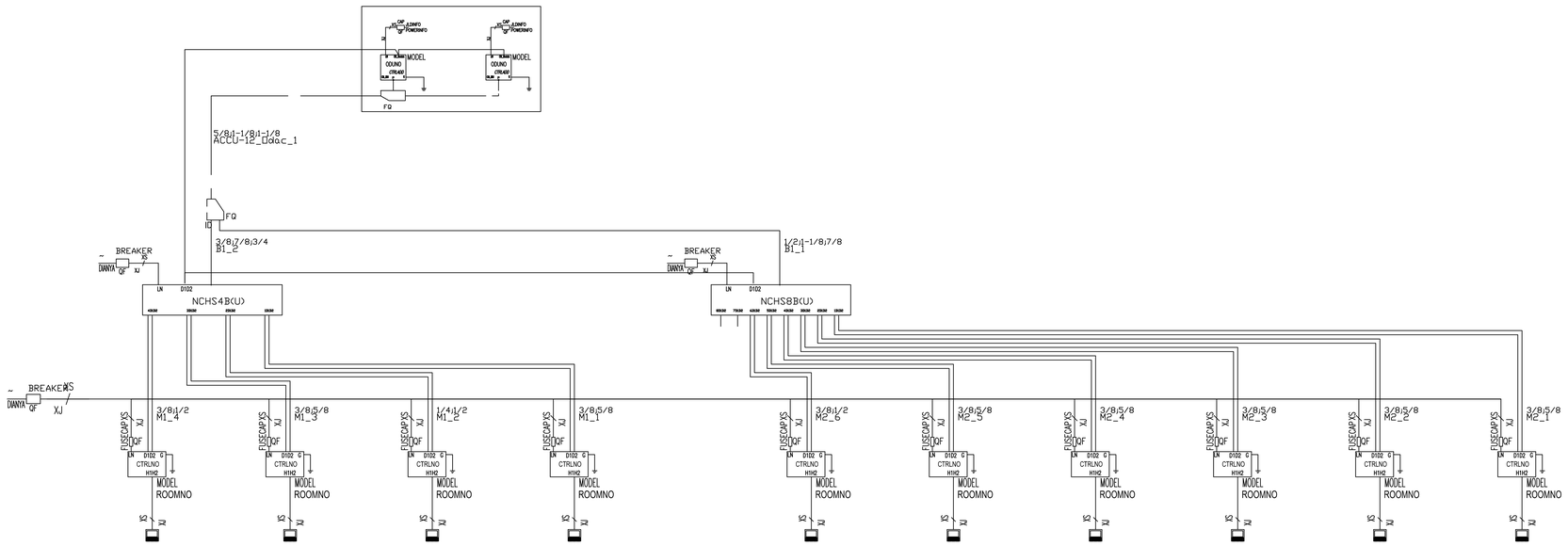


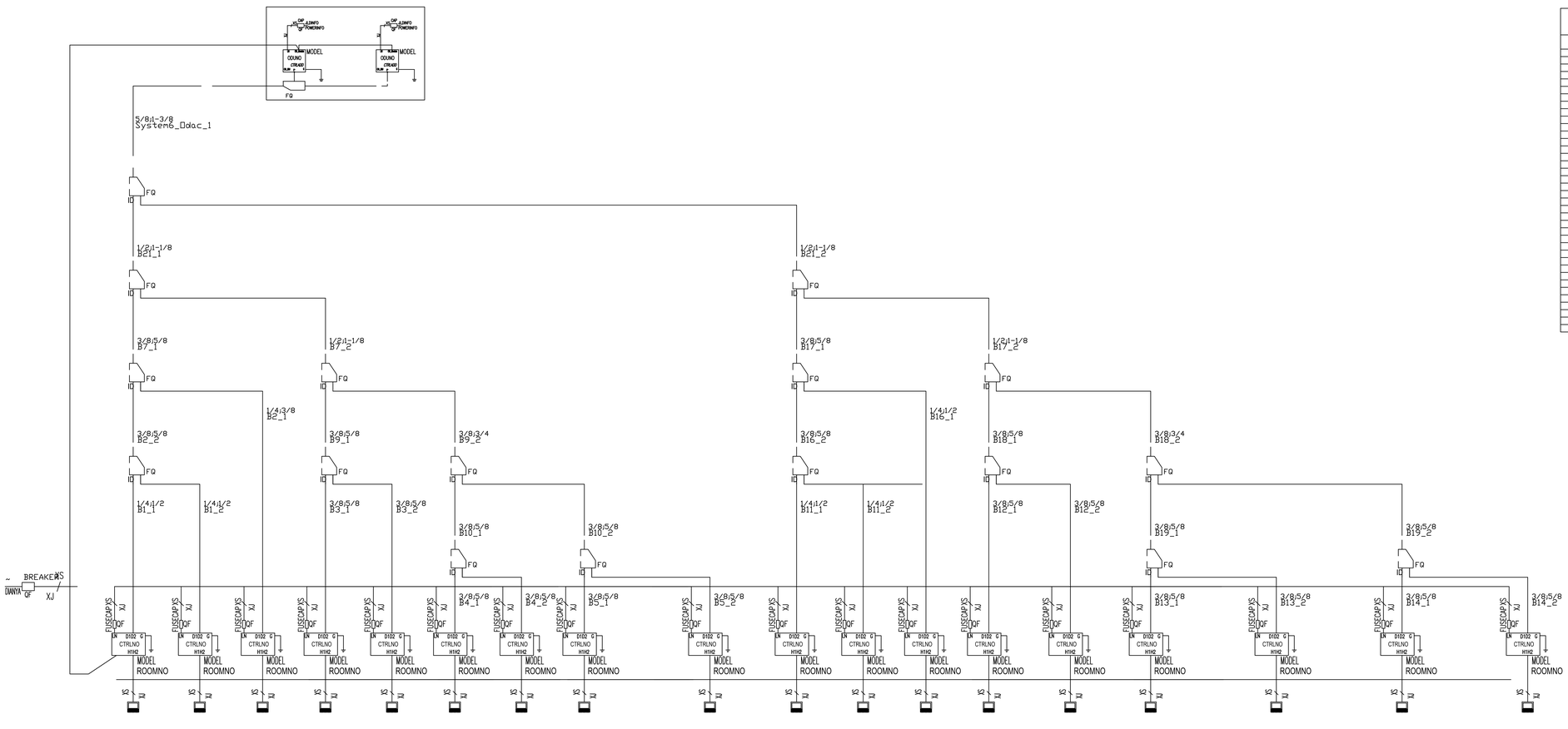
DIAGRAM SYMBOL LEGEND

DISPLAY	DESCRIPTION
	POWER WIRE
	CONTROL WIRE
	REF. PIPE

Piping List
Remark:HP Gas:High Pressure Gas;
Gas:Gas Pipe;
Liquid:Liquid Pipe

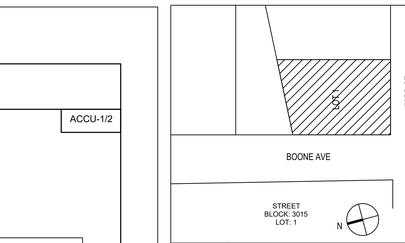
Name	LIQUID/GAS/HP GAS(inch)	Length(ft)
ACCU-12_Odac_1	5/8;1-1/8;1-1/8	70.00
B1_1	1/2;1-1/8;7/8	20.00
B1_2	3/8;7/8;3/4	20.00
M1_1	3/8;5/8	13.00
M1_2	1/4;1/2	25.00
M1_3	3/8;5/8	42.00
M1_4	3/8;1/2	70.00
M2_1	3/8;5/8	13.00
M2_2	3/8;5/8	25.00
M2_3	3/8;5/8	35.00
M2_4	3/8;5/8	60.00
M2_5	3/8;5/8	62.00
M2_6	3/8;1/2	62.00
O_1	3/8;7/8;3/4;Oil 3/8	6.56
O_2	3/8;7/8;3/4	6.56

ACCU-3/4N



Piping List
Remark:HP Gas:High Pressure Gas;
Gas:Gas Pipe;
Liquid:Liquid Pipe

Name	LIQUID/GAS/HP GAS(inch)	Length(ft)
B1_1	1/4;1/2	10.00
B1_2	1/4;1/2	13.00
B10_1	3/8;5/8	2.00
B10_2	3/8;5/8	37.00
B11_1	1/4;1/2	14.00
B11_2	1/4;1/2	10.00
B12_1	3/8;5/8	10.00
B12_2	3/8;5/8	13.00
B13_1	3/8;5/8	10.00
B13_2	3/8;5/8	13.00
B14_1	3/8;5/8	10.00
B14_2	3/8;5/8	13.00
B16_1	1/4;1/2	10.00
B16_2	3/8;5/8	18.00
B17_1	3/8;5/8	73.00
B17_2	1/2;1-1/8	3.00
B18_1	3/8;5/8	5.00
B18_2	3/8;3/4	35.00
B19_1	3/8;5/8	5.00
B19_2	3/8;5/8	10.00
B2_1	1/4;3/8	10.00
B2_2	3/8;5/8	18.00
B21_1	1/2;1-1/8	9.00
B21_2	1/2;1-1/8	14.00
B3_1	3/8;5/8	10.00
B3_2	3/8;5/8	13.00
B4_1	3/8;5/8	10.00
B4_2	3/8;5/8	13.00
B5_1	3/8;5/8	10.00
B5_2	3/8;5/8	13.00
B7_1	3/8;5/8	28.00
B7_2	1/2;1-1/8	68.00
B9_1	3/8;5/8	5.00
B9_2	3/8;3/4	36.00
O_1	1/2;1-1/8;Oil 3/8	6.56
O_2	1/2;1-1/8	6.56
System6_Odac_1	5/8;1-3/8	25.00



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

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DOB XXXXXX

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
A/C REFRIGERANT AND CONTROL WIRING DIAGRAMS

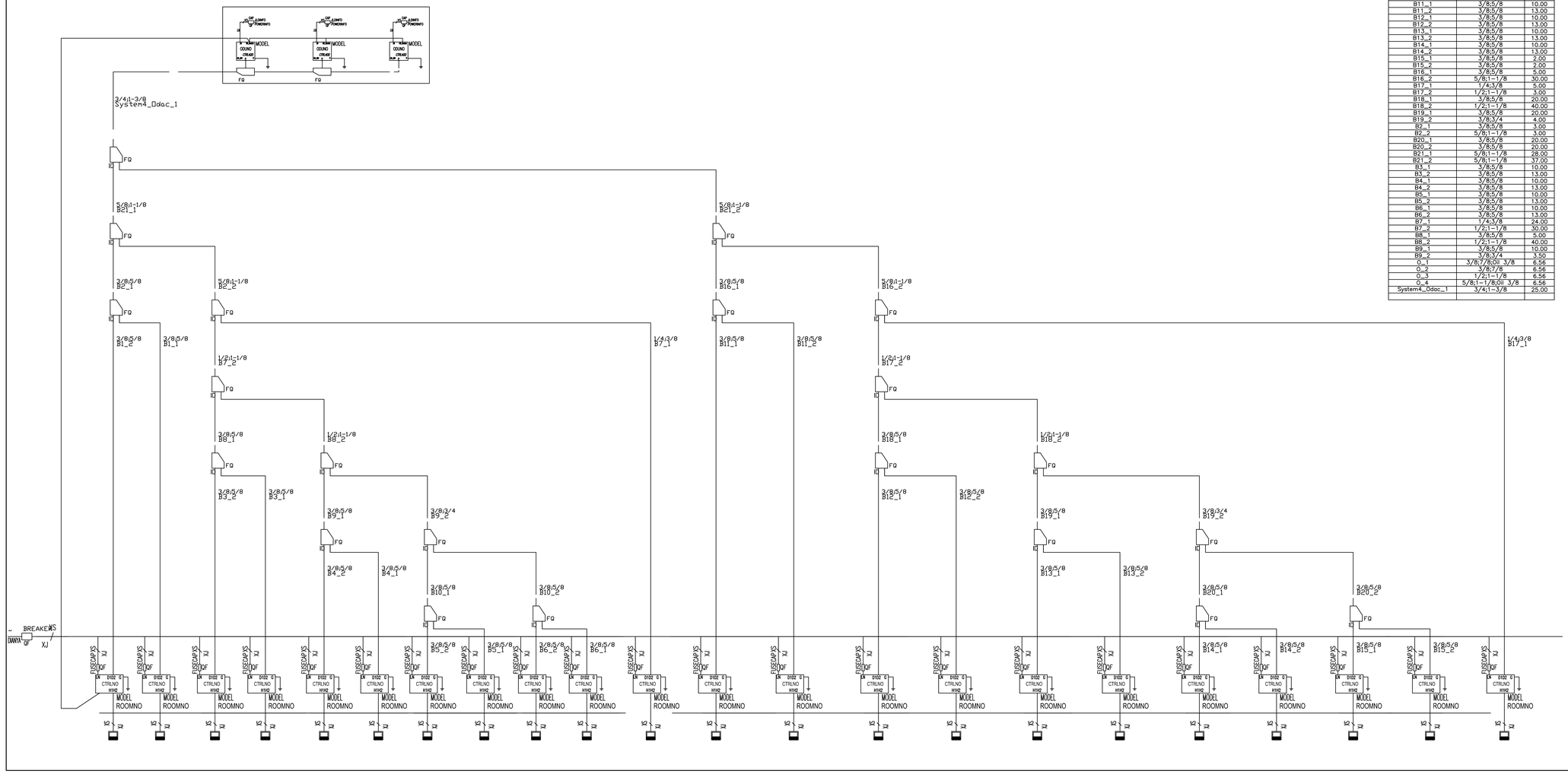
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DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:
M-220.00
SHEET 11 OF 18

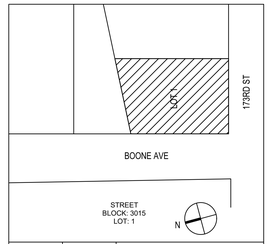
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A/C REFRIGERANT AND CONTROL WIRING DIAGRAMS

ACCU-3/4S



Piping List Remark:HP Gas:High Pressure Gas; Gas:Gas Pipe; Liquid:Liquid Pipe		
Name	LIQUID/GAS/HP GAS(Inch)	Length(ft)
B1_1	3/8;5/8	10.00
B1_2	3/8;5/8	13.00
B10_1	3/8;5/8	10.00
B10_2	3/8;5/8	10.00
B11_1	3/8;5/8	10.00
B11_2	3/8;5/8	13.00
B12_1	3/8;5/8	10.00
B12_2	3/8;5/8	13.00
B13_1	3/8;5/8	10.00
B13_2	3/8;5/8	13.00
B14_1	3/8;5/8	10.00
B14_2	3/8;5/8	13.00
B15_1	3/8;5/8	2.00
B15_2	3/8;5/8	2.00
B16_1	3/8;5/8	5.00
B16_2	5/8;1-1/8	30.00
B17_1	1/4;3/8	5.00
B17_2	1/2;1-1/8	3.00
B18_1	3/8;5/8	20.00
B18_2	1/2;1-1/8	40.00
B19_1	3/8;5/8	20.00
B19_2	3/8;3/4	4.00
B2_1	3/8;5/8	3.00
B2_2	5/8;1-1/8	3.00
B20_1	3/8;5/8	20.00
B20_2	3/8;5/8	20.00
B21_1	5/8;1-1/8	28.00
B21_2	5/8;1-1/8	37.00
B3_1	3/8;5/8	10.00
B3_2	3/8;5/8	13.00
B4_1	3/8;5/8	10.00
B4_2	3/8;5/8	13.00
B5_1	3/8;5/8	10.00
B5_2	3/8;5/8	13.00
B6_1	3/8;5/8	10.00
B6_2	3/8;5/8	13.00
B7_1	1/4;3/8	24.00
B7_2	1/2;1-1/8	30.00
B8_1	3/8;5/8	5.00
B8_2	1/2;1-1/8	40.00
B9_1	3/8;5/8	10.00
B9_2	3/8;3/4	3.50
O_1	3/8;7/8;Oil 3/8	6.56
O_2	3/8;7/8	6.56
O_3	1/2;1-1/8	6.56
O_4	5/8;1-1/8;Oil 3/8	6.56
System4_Odac_1	3/4;1-3/8	25.00



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

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DOB XXXXXX

PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

A/C REFRIGERANT AND CONTROL WIRING DIAGRAMS

Seal & Signature:

DATE:	06/06/19
PROJECT #:	19-0514
DWG SCALE:	AS SHOWN

DRAWING NO.:

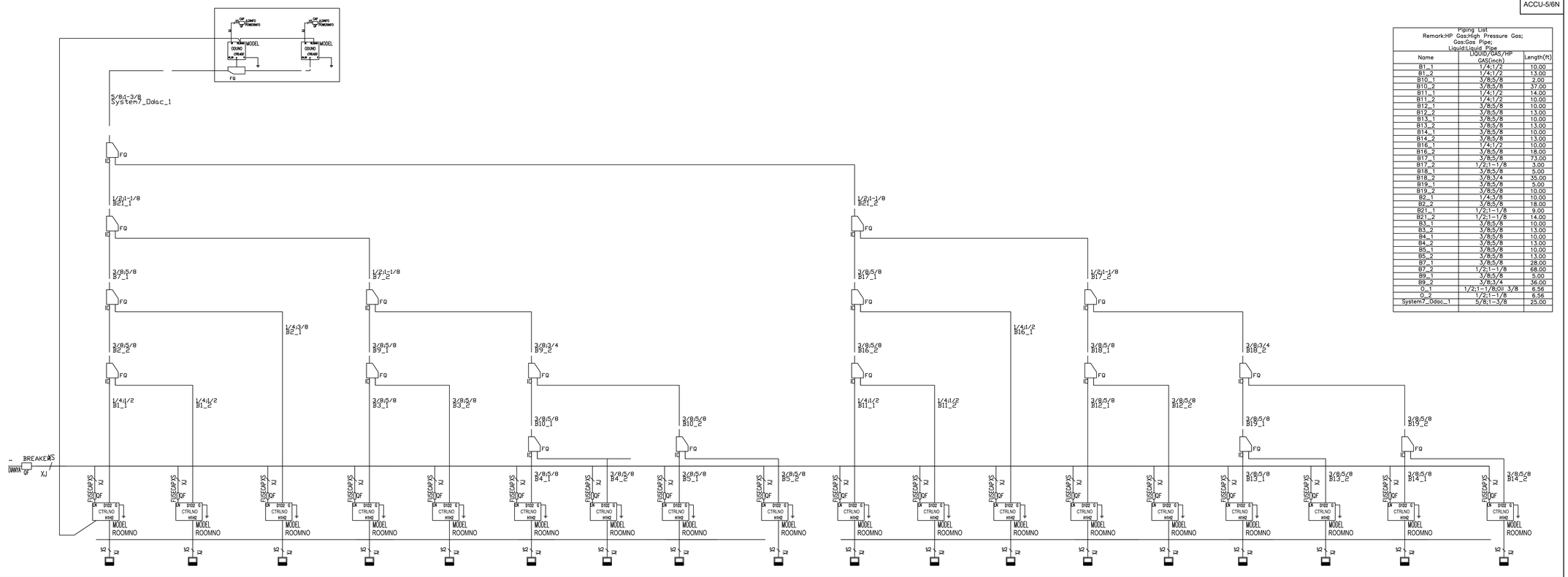
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SHEET 12 OF 18

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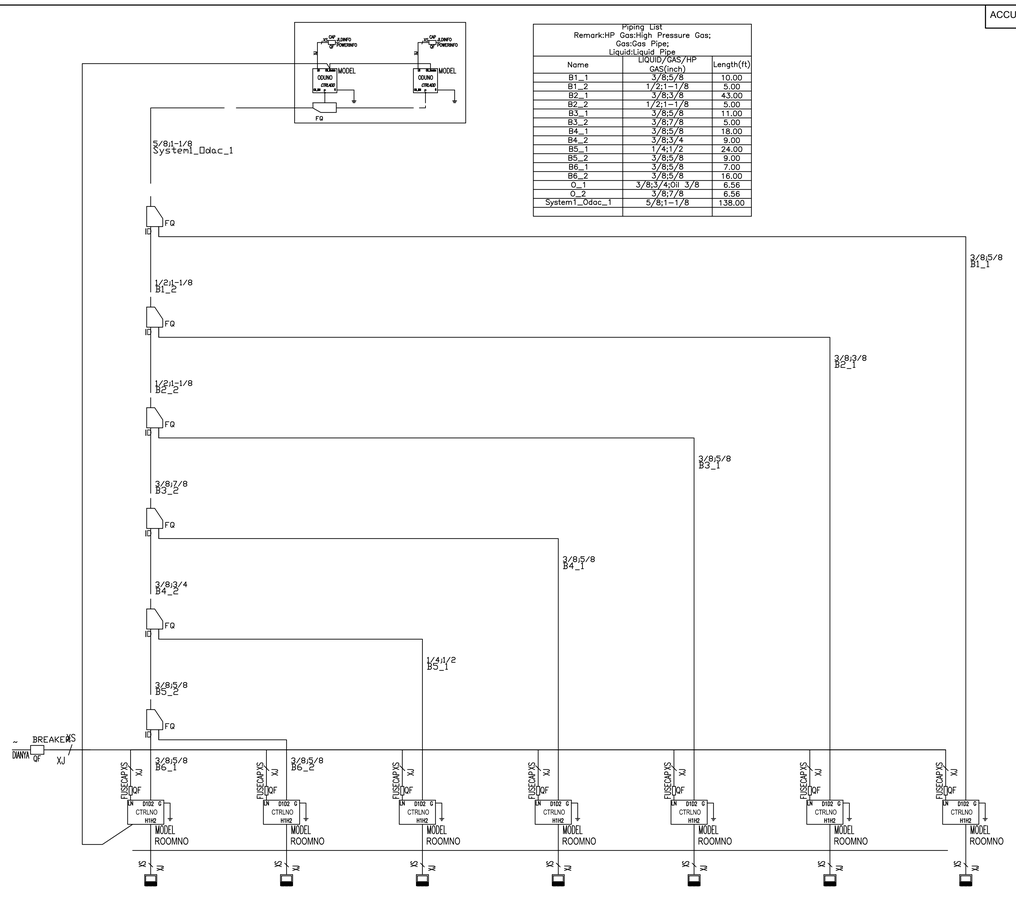
A/C REFRIGERANT AND CONTROL WIRING DIAGRAMS

ACCU-5/6N



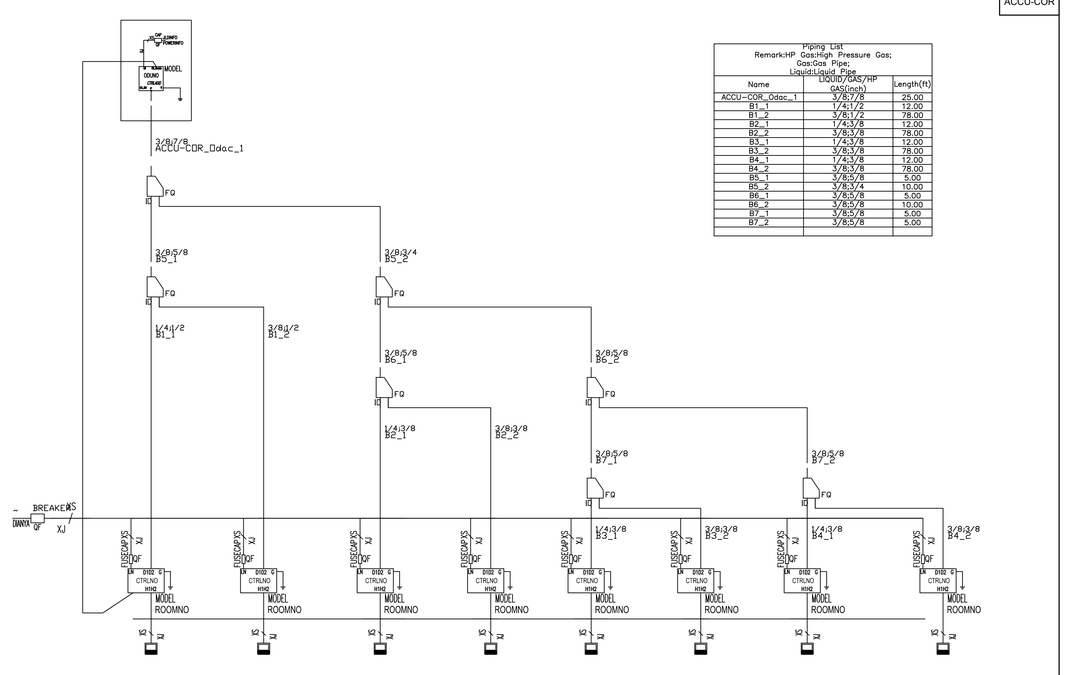
Piping List Remark:HP Gas:High Pressure Gas; Gas:Gas Pipe; Liquid:Liquid Pipe		
Name	LIQUID/GAS/HP GAS(inch)	Length(ft)
B1_1	1/4;1/2	10.00
B1_2	1/4;1/2	13.00
B10_1	3/8;5/8	2.00
B10_2	3/8;5/8	37.00
B11_1	1/4;1/2	14.00
B11_2	1/4;1/2	10.00
B12_1	3/8;5/8	10.00
B12_2	3/8;5/8	13.00
B13_1	3/8;5/8	10.00
B13_2	3/8;5/8	13.00
B14_1	3/8;5/8	10.00
B14_2	3/8;5/8	13.00
B16_1	1/4;1/2	10.00
B16_2	3/8;5/8	18.00
B17_1	3/8;5/8	73.00
B17_2	1/2;1-1/8	3.00
B18_1	3/8;5/8	5.00
B18_2	3/8;3/4	35.00
B19_1	3/8;5/8	5.00
B19_2	3/8;5/8	10.00
B2_1	1/4;3/8	10.00
B2_2	3/8;5/8	18.00
B21_1	1/2;1-1/8	9.00
B21_2	1/2;1-1/8	14.00
B3_1	3/8;5/8	10.00
B3_2	3/8;5/8	13.00
B4_1	3/8;5/8	10.00
B4_2	3/8;5/8	13.00
B5_1	3/8;5/8	10.00
B5_2	3/8;5/8	13.00
B7_1	3/8;5/8	28.00
B7_2	1/2;1-1/8	68.00
B9_1	3/8;5/8	5.00
B9_2	3/8;3/4	36.00
O_1	1/2;1-1/8OR 3/8	6.56
O_2	1/2;1-1/8	6.56
System7_Odoc_1	5/8;1-3/8	25.00

ACCU-CFT

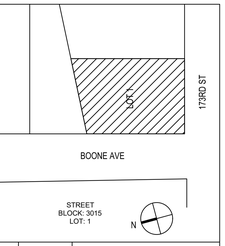


Piping List Remark:HP Gas:High Pressure Gas; Gas:Gas Pipe; Liquid:Liquid Pipe		
Name	LIQUID/GAS/HP GAS(inch)	Length(ft)
B1_1	3/8;5/8	10.00
B1_2	1/2;1-1/8	5.00
B2_1	3/8;3/8	43.00
B2_2	1/2;1-1/8	5.00
B3_1	3/8;5/8	11.00
B3_2	3/8;7/8	5.00
B4_1	3/8;5/8	18.00
B4_2	3/8;3/4	9.00
B5_1	1/4;1/2	24.00
B5_2	3/8;5/8	9.00
B6_1	3/8;5/8	7.00
B6_2	3/8;5/8	16.00
O_1	3/8;3/4;Oil 3/8	6.56
O_2	3/8;7/8	6.56
System1_Odoc_1	5/8;1-1/8	138.00

ACCU-COR



Piping List Remark:HP Gas:High Pressure Gas; Gas:Gas Pipe; Liquid:Liquid Pipe		
Name	LIQUID/GAS/HP GAS(inch)	Length(ft)
ACCU-COR_Odoc_1	3/8;7/8	25.00
B1_1	1/4;1/2	12.00
B1_2	3/8;1/2	78.00
B2_1	1/4;3/8	12.00
B2_2	3/8;3/8	78.00
B3_1	1/4;3/8	12.00
B3_2	3/8;3/8	78.00
B4_1	1/4;3/8	12.00
B4_2	3/8;3/8	78.00
B5_1	3/8;5/8	5.00
B5_2	3/8;3/4	10.00
B6_1	3/8;5/8	5.00
B6_2	3/8;5/8	10.00
B7_1	3/8;5/8	5.00
B7_2	3/8;5/8	5.00



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

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PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
A/C REFRIGERANT AND CONTROL WIRING DIAGRAMS

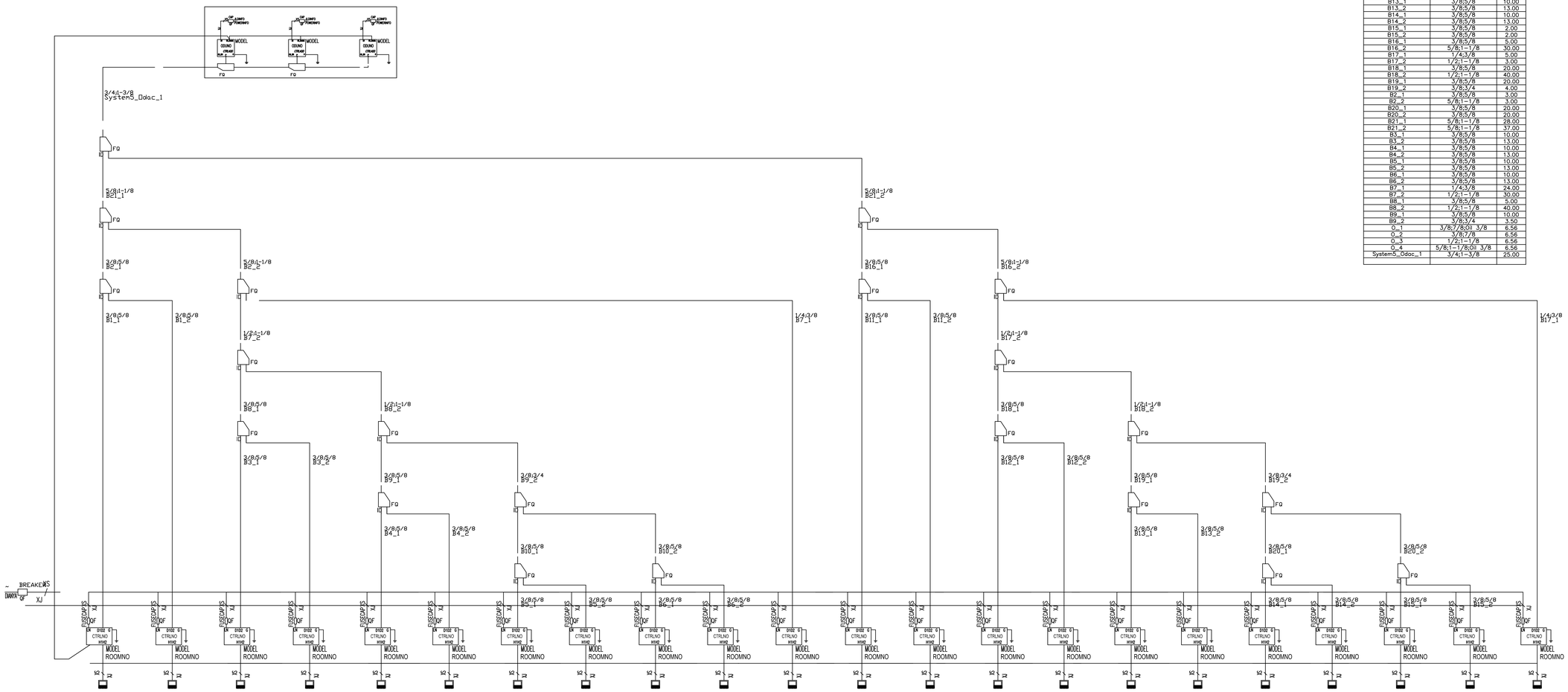
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DATE:	06/06/19
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DWG SCALE:	AS SHOWN
DRAWING NO.:	M-222.00
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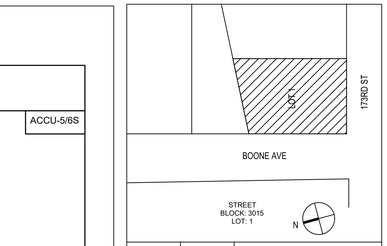
A/C REFRIGERANT AND CONTROL WIRING DIAGRAMS

ACCU-5/6S



Piping List
Remark:HP Gas:High Pressure Gas;
Gas:Gas Pipe;
Liquid:Liquid Pipe

Name	LIQUID/GAS/HP GAS(inch)	Length(ft)
B1_1	3/8;5/8	10.00
B1_2	3/8;5/8	13.00
B10_1	3/8;5/8	10.00
B10_2	3/8;5/8	10.00
B11_1	3/8;5/8	10.00
B11_2	3/8;5/8	13.00
B12_1	3/8;5/8	10.00
B12_2	3/8;5/8	13.00
B13_1	3/8;5/8	10.00
B13_2	3/8;5/8	13.00
B14_1	3/8;5/8	10.00
B14_2	3/8;5/8	13.00
B15_1	3/8;5/8	2.00
B15_2	3/8;5/8	2.00
B16_1	3/8;5/8	5.00
B16_2	5/8;1-1/8	30.00
B17_1	1/4;3/8	5.00
B17_2	1/2;1-1/8	3.00
B18_1	3/8;5/8	20.00
B18_2	1/2;1-1/8	40.00
B19_1	3/8;5/8	20.00
B19_2	3/8;3/4	4.00
B2_1	3/8;5/8	3.00
B2_2	5/8;1-1/8	3.00
B20_1	3/8;5/8	20.00
B20_2	3/8;5/8	20.00
B21_1	5/8;1-1/8	28.00
B21_2	5/8;1-1/8	37.00
B3_1	3/8;5/8	10.00
B3_2	3/8;5/8	13.00
B4_1	3/8;5/8	10.00
B4_2	3/8;5/8	13.00
B5_1	3/8;5/8	10.00
B5_2	3/8;5/8	13.00
B6_1	3/8;5/8	10.00
B6_2	3/8;5/8	13.00
B7_1	1/4;3/8	24.00
B7_2	1/2;1-1/8	30.00
B8_1	3/8;5/8	5.00
B8_2	1/2;1-1/8	40.00
B9_1	3/8;5/8	10.00
B9_2	3/8;3/4	3.50
O_1	3/8;7/8;Oil 3/8	6.56
O_2	3/8;7/8	6.56
O_3	1/2;1-1/8	6.56
O_4	5/8;1-1/8;Oil 3/8	6.56
System5_Odoc_1	3/4;1-3/8	25.00



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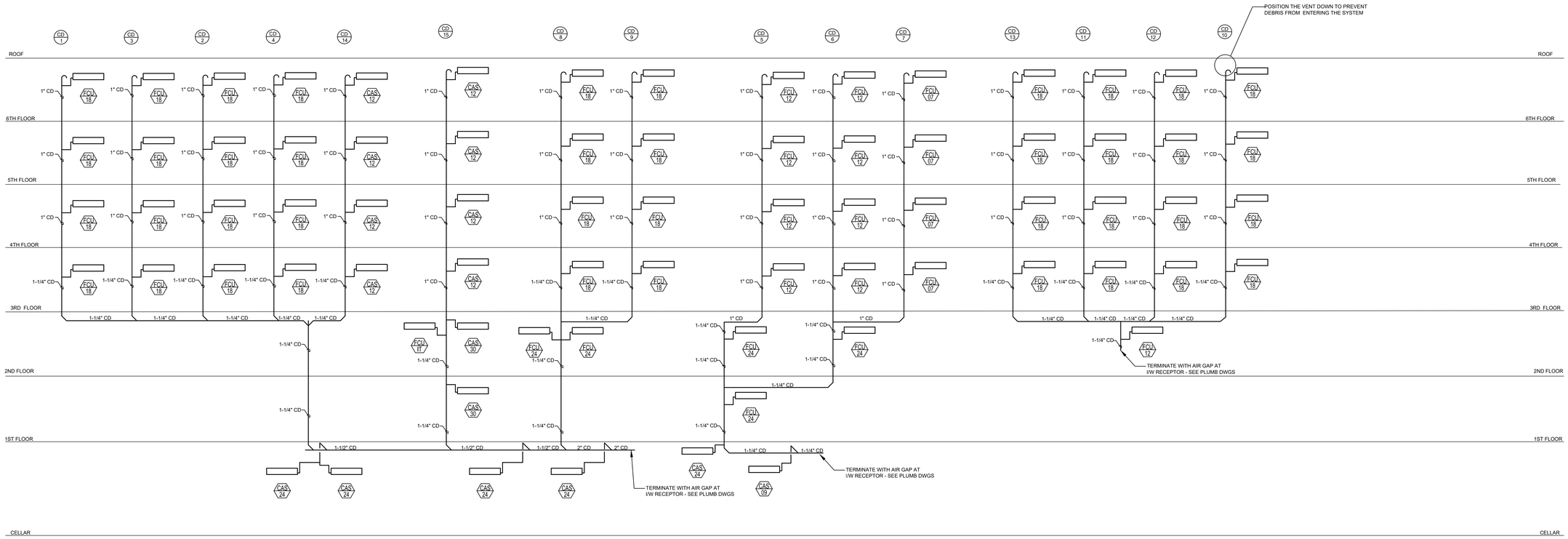
PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

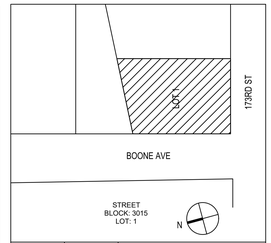
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A/C REFRIGERANT AND CONTROL WIRING DIAGRAMS

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PROJECT #: 19-0514
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PROJECT NAME

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Bronx, New York 10460

DRAWING TITLE

CONDENSATE DRAIN RISER DIAGRAM

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DATE: 06/06/19
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DWG SCALE: AS SHOWN
DRAWING NO.:

M-224.00

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AIR HANDLING UNIT SCHEDULE

("GREE" GMV5 AS STANDARD)

UNIT TAG	SERVICED AREA	NOMINAL TONS	DX COOLING COIL INSTALLED CAPACITY, BTUH		HEATING CAPACITY, BTUH		EVAPORATOR FAN			ELECTRICAL DATA			OPERATING WT. - (LBS)	MODEL NO.	CONDENSATE REMOVAL	REMARKS
			TOTAL	SENSIBLE	10 DEG.	47 DEG.	CFM	ESP, IN. W.C.	HP	VOLTS/ØHz	F.L.A.	MOCP				
FCU-07	REFER TO PLANS	0.625	7,500	5,500	6,800	8,500	L:206 M:247 H:294	N/A	35 WATTS	208/1/60	0.2	15	22.1	GMV-N07G/A3A-D(U)	GRAVITY	STANDARD WALL MOUNTED
FCU-09	REFER TO PLANS	0.75	9,500	7,000	8,700	11,000	L:206 M:247 H:294	N/A	50 WATTS	208/1/60	0.2	15	22.1	GMV-N09G/A3A-D(U)	GRAVITY	STANDARD WALL MOUNTED
FCU-12	REFER TO PLANS	1.00	12,000	8,700	10,900	13,500	L:282 M:324 H:371	N/A	60 WATTS	208/1/60	0.2	15	27.1	GMV-N12G/A3A-D(U)	GRAVITY	STANDARD WALL MOUNTED
FCU-14, 18	REFER TO PLANS	1.50	18,000	13,900	17,200	20,000	L:282 M:324 H:371	N/A	60 WATTS	208/1/60	0.21	15	27.1	GMV-N18G/A3A-D(U)	GRAVITY	STANDARD WALL MOUNTED
FCU-24	REFER TO PLANS	2.00	24,000			25,500	L:294 M:353 H:441	N/A	70 WATTS	208/1/60	0.31	15	33.1	GMV-N24G/A3A-D(U)	GRAVITY	STANDARD WALL MOUNTED
FCU-IT	REFER TO PLANS	2.00	24,000			25,500	L:294 M:353 H:441	N/A	70 WATTS	208/1/60	0.31	15	33.1	GMV-N24G/A3A-D(U)	GRAVITY	STANDARD WALL MOUNTED
FCU-EMR	REFER TO PLANS	1.50	18,500	13,320	19,800	19,800	L:335 M:400 H:559	N/A	70 WATTS	POWERED THRU THE CONDENSING UNIT			28.7	VIR18HP230V1B	GRAVITY	STANDARD WALL MOUNTED
CAS-09	REFER TO PLANS	0.75	9,500	7,000	8,700	10,500	L:440 M:530 H:590	N/A	48 WATTS	208/1/60	0.3	15	58.4	GMV-ND09T/A-T(U)	FACTORY INSTALLED PUMP	2'X2' CEILING CASSETTE
CAS-12	REFER TO PLANS	1.00	12,000	8,700	10,900	13,500	L:440 M:530 H:590	N/A	48 WATTS	208/1/60	0.3	15	58.4	GMV-ND12T/A-T(U)	FACTORY INSTALLED PUMP	2'X2' CEILING CASSETTE
CAS-24	REFER TO PLANS	2.00	24,000	17,000		27,000	L:470 M:590 H:695	N/A	48 WATTS	208/1/60	0.5	15	58.4	GMV-ND24T/A-T(U)	FACTORY INSTALLED PUMP	3'x3' CEILING CASSETTE
CAS-30	REFER TO PLANS	2.50	30,000	22,000		34,000	L:650 M:800 H:885	N/A	98 WATTS	208/1/60	0.8	15	71.7	GMV-ND30T/A-T(U)	FACTORY INSTALLED PUMP	3'x3' CEILING CASSETTE

NOTES: SELECTION IS BASED ON: AIR ENTERING EVAP. COIL 80 DEGREES DB - 67 DEGREES WB

1. REFER TO MANUFACTURER PROVIDED DETAILED REFRIGERANT PIPE SIZING AND FITTINGS SCHEMATIC (NO DEVIATIONS ARE ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED).
2. EACH FAN COIL TO BE MOUNTED ON EQUIPMENT SUPPORTS WITH NEOPRENE RUBBER VIBRATION ISOLATION (CORK PADS ARE NOT ACCEPTABLE).
3. FUSED ELECTRICAL DISCONNECT SWITCH SHALL BE PROVIDED FOR EACH FAN COIL (BY ELECTRICAL CONTRACTOR).
4. PROVIDE FILTER RETURN REGISTER OR EXTERNAL FILTER RACK AND FILTER FOR ALL DUCTED FAN COILS (AS INDICATED ON PLANS).
5. PROVIDE 7-DAY PROGRAMMABLE BACK-LIT CONTROLLER, MODEL PQRCVSLOW (WHITE)
6. ALL CONTROL WIRING TO BE DONE BY MECHANICAL CONTRACTOR, UNLESS OTHERWISE NOTED BY CONSTRUCTION MANAGEMENT.
7. EQUIPMENT START-UP TO BE SUPERVISED BY FACTORY SERVICE PERSONNEL.

NOTE TO ENERGY AUDIT EXAMINER:
INTERIOR DESIGN TEMPERATURES FOR HEATING AND COOLING LOADS

INDOOR HEATING SET-POINT: 72 DEGREES F
WINTER OUTDOOR CONDITIONS: 15 DEGREES F, 15 MPH WIND

INDOOR COOLING SET POINT: 75 DEGREES F
SUMMER OUTDOOR CONDITIONS: 89.7 DEGREES F DRY-BULB AND 73.5 DEGREES WET-BULB

CONTROLS NARRATIVE

- THE THERMOSTAT SHALL HAVE THE FOLLOWING BASIC FUNCTIONS:
  ROOM TEMPERATURE DISPLAY
  ON/OFF OPERATION
  MODE SELECTION - AUTO/COOL/DRY/HEATFAN ONLY
  OCCUPIED COOLING AND HEATING TEMPERATURE SETPOINTS
  UN-OCCUPIED COOLING AND HEATING SETBACK TEMPERATURE SETPOINTS
  FAN SPEED - AUTO/LOW/MED/HIGH/POWER
  CONTROLLER LOCK FUNCTION
  STATIC PRESSURE SETTING
  ERROR CODE DISPLAY
  POWER FAILURE COMPENSATION (48 HOURS)
- THE 7-DAY PROGRAMMABLE SCHEDULE SHALL INCLUDE 5 EVENTS PER DAY WITH CONTROL OF OCC/UNOCC, ON/OFF, MODE, SETPOINTS AND FAN SPEED.
- THE THERMOSTAT SHALL HAVE TWO SETPOINT AUTOCHANGEOVER.
- MINIMUM DIFFERENCE BETWEEN SETPOINTS SHALL BE 5 DEGREES (PER NYC ECC 503.2.4).
- THE THERMOSTAT SHALL HAVE SEPARATE SETBACK BUTTON.
- THE THERMOSTAT SHALL HAVE SEPARATE TIMED OVERRIDE BUTTON.

REFRIGERANT PIPING INSULATION

AFTER THE FINAL SYSTEM LEAK TEST IS COMPLETE, IT IS IMPORTANT THAT ALL REFRIGERANT LINES EXPOSED TO HIGH AMBIENT CONDITIONS MUST BE INSULATED TO REDUCE THE HEAT PICK-UP AND PREVENT THE FORMATION OF FLASH GAS IN THE LIQUID LINES.
SUCTION LINES SHOULD BE INSULATED WITH 3/4 INCH WALL INSULATION, ARMSTRONG "ARMAFLEX" OR EQUAL, TO PREVENT RUPTURE DUE TO CONDENSATE RE-FREEZING. ALL SUCTION VIBRATION ELIMINATORS ON LOW TEMPERATURE SYSTEMS MUST BE COMPLETELY INSULATED. LIQUID LINES EXPOSED TO HIGH AMBIENT TEMPERATURES SHOULD BE INSULATED WITH 1/2 INCH WALL INSULATION OR BETTER. ANY INSULATION THAT IS TO BE LOCATED IN AN OUTDOOR ENVIRONMENT SHOULD BE PROTECTED FROM UV EXPOSURE TO PREVENT DETERIORATION OF THE INSULATING VALUE.

REFRIGERANT PIPING NOTES

REFRIGERANT PIPING WORK
• FOR INSTRUCTION FOR INSTALLING PIPING BETWEEN THE OUTSIDE UNIT AND BRANCH KIT, SELECTING A REFRIGERANT BRANCH KIT,
AND INSTALLING PIPING BETWEEN THE REFRIGERANT BRANCH KIT AND THE INDOOR UNIT, REFER TO THE INSTALLATION MANUAL AND EQUIPMENT DESIGN MATERIALS INCLUDED WITH THE OUTSIDE UNIT.
• BEFORE BEGINNING THE WORK, ALWAYS CHECK TO MAKE SURE THE TYPE OF REFRIGERANT USED IS R410A. (THE UNIT WILL NOT OPERATE CORRECTLY WITH A DIFFERENT TYPE OF REFRIGERANT.)
• INSULATE ALL OF THE PIPING INCLUDING THE LIQUID PIPES, AND SUCTION GAS PIPES, EQUALIZER PIPES (PIPING BETWEEN OUTSIDE UNITS WHEN AN OUTSIDE MULTI-UNIT SYSTEM), AND THE PIPE CONNECTIONS FOR THESE. NOT INSULITING THESE PIPES COULD RESULT IN WATER LEAKS OR BURNS. IN PARTICULAR, SUCTION GAS FLOWS IN THE HPI-P GAS PIPING DURING FULL COOLING OPERATION, SO THE SAME AMOUNT OF INSULATION AS USED FOR THE SUCTION GAS PIPING IS REQUIRED. IN ADDITION, HIGH-PRESSURE GAS FLOWS IN THE HPI-P GAS PIPING AND GAS PIPING, SO USE INSULATION DESIGNED FOR HVAC SYSTEMS.
• REINFORCE THE INSULATION MATERIAL WHEN NECESSARY FOR THE INSTALLATION ENVIRONMENT. REFER TO THE FOLLOWING AS A GUIDELINE.
• FOR 86°F, RH75% TO 80%: THICKNESS AT LEAST 5/8 IN.
• FOR 86°F, OVER RH80%: THICKNESS AT LEAST 13/16 IN.
IF NOT REINFORCED, CONDENSATION COULD FORM ON THE SURFACE OF THE INSULATION. FOR DETAILS, REFER TO THE ENGINEERING DATA BOOK.
NOTES
• THIS PRODUCT ONLY USES THE NEW REFRIGERANT (R410A) BE SURE TO USE THE SPECIAL PIPE CUTTERS FOR R410A, DURING INSTALLATION.
• MAKE SURE THAT NOTHING BESIDES THE SPECIFIED REFRIGERANT, *SUCH AS AIR*, GETS INTO THE REFRIGERANT PIPING.
• IF REFRIGERANT GAS LEAKS DURING THE WORK, VENTILATE THE AREA. (THE OUTSIDE UNITS ARE FILLED WITH REFRIGERANT.)
PIPING MATERIAL SELECTION
• USE ONLY PIPES WHICH ARE CLEAN INSIDE AND OUTSIDE AND WHICH DO NOT ACCUMULATE HARMFUL SULFUR, OXIDANTS, DIRT, CUTTING OILS, MOISTURE, OR OTHER CONTAMINATION. (FOREIGN MATERIALS INSIDE PIPES INCLUDING OILS FOR FABRICATION MUST BE 9 mg/10 FT OR LESS.)
• USE THE FOLLOWING ITEMS FOR THE REFRIGERANT PIPING.
MATERIAL: JOINTLESS PHOSPHOR-DEOXIDIZED COPPER PIPE
SIZE: SEE "EXAMPLE OF CONNECTION' TO DETERMINE THE CORRECT SIZE.
THICKNESS: SELECT A THICKNESS FOR THE REFRIGERANT PIPING WHICH COMPLIES WITH NATIONAL AND LOCAL LAWS. FOR R410A, THE DESIGN PRESSURE IS 478 PSI.
• FOR INFORMATION REGARDING THE PIPING ALLOWABLE MAXIMUM LENGTH, ALLOWABLE HEIGHT DIFFERENCE, AND ALLOWABLE LENGTH AFTER A BRANCH, REFER TO THE INSTALLATION MANUAL THAT CAME WITH THE OUTSIDE UNIT OR ENGINEERING DATA BOOK.
• THE REFRIGERANT BRANCH KIT (SOLD SEPARATELY) IS REQUIRED FOR PIPING BRANCHES. PROTECT THE PIPING TO PREVENT MOISTURE, DIRT, DUST, ETC. FROM ENTERING THE PIPING.
NOTE
EXERCISE SPECIAL CAUTION TO PREVENT DIRT OR DUST WHEN PASSING PIPING THROUGH HOLES IN WALLS AND WHEN PASSING PIPE EDGES TO THE EXTERIOR.
PIPING CONNECTION, WORK PRECAUTIONS
* WHEN BRAZING REFRIGERANT PIPING, BEGIN WORKING AFTER REPLACING THE NITROGEN OR PERFORM BRAZING WHILE NITROGEN IS FLOWING IN THE REFRIGERANT PIPING AT THE END MADE THE INDOOR UNIT AND BS UNIT FLARE OR FLANGE CONNECTIONS.
* FOR DETAILS ON NITROGEN REPLACEMENT, SEE THE "VRV INSTALLATION MANUAL" (AVAILABLE AT ANY LG DEALER).
* THE PRESSURE REGULATOR FOR THE NITROGEN RELEASED WHEN DOING THE BRAZING SHOULD BE SET TO ABOUT 2.9 PSI (ENOUGH TO FEEL A SLIGHT BREEZE ON YOUR CHEEK).
NOTES
• DO NOT USE AN ANTI-OXIDIZING AGENT WHEN BRAZING THE PIPING. RESIDUAL DEBRIS COULD CLOG THE PIPING OR CAUSE PARTS TO MALFUNCTION.
• DO NOT USE A FLUX WHEN BRAZING THE REFRIGERANT PIPE JOINTS. USING A CHLORINE FLUX MAY CAUSE THE PIPES TO CORRODE, AND IF IT CONTAINS FLUORIDE IT MAY CAUSE THE REFRIGERANT LUBRICANT TO DETERIORATE, ADVERSELY AFFECTING THE REFRIGERANT PIPING SYSTEM. USE PHOSPHOR COPPER BRAZING (B-CU93P-710/795: ISO 3677) WHICH DOES NOT REQUIRE FLUX.

ANY PIPING LAYOUT CHANGES MUST BE COORDINATED WITH LG REPRESENTATIVE AS TO POSSIBLE SYSTEM RE-CALCULATION AND PIPING RE-SIZING.
CONTACT: RACHEL XING PH. #718-768-8900.

AIR COOLED CONDENSING UNIT SCHEDULE (OUTDOOR UNIT)

("GREE" AS STANDARD)

SYSTEM DESIGNATION	LOCATION	SERVING AREA	NOMINAL RATING (TONS)	COOLING CAPACITY BTUH	HEATING CAPACITY BTUH	ELECTRICAL DATA			COOLING EFFICIENCY EER RATING		HEATING EFFICIENCY COP RATING		OPERATING WT. (LBS)	MODEL NO.	REMARKS		SERIAL NUMBER	ETL Listed Number
						VOLTS (Ø, HZ)	POWER SUPPLY MCA	POWER SUPPLY MOCP (FUSE)	ACTUAL	REQUIRED	ACTUAL	REQUIRED						
ACCU-1/2-A	ROOF	FIRST FLOOR AND MEZZANINE OFFICE SPACES	8.0	92,000	103,000	208/3/60	37.0	45.0	11.20	10.80	3.50	3.30	700	GMV-Q96WM/B-F(U)	HEAT RECOVERY	REFRIGERANT R-410	123456789101112 13	
ACCU-1/2-B	ROOF		8.0	92,000	103,000	208/3/60	37.0	45.0	11.20	11.00	3.50	3.30	700	GMV-Q96WM/B-F(U)		REFRIGERANT R-410	123456789101112 13	
ACCU-3/4N-A	ROOF	3RD AND 4TH FLOORS NORTH CLASSROOMS	10.0	114,000	129,000	208/3/60	50.0	60.0	12.40	11.00	3.95	3.30	793.8	GMV-120WM/B-F(U)	HEAT PUMP	REFRIGERANT R-410	123456789101112 13	
ACCU-3/4N-B	ROOF		10.0	114,000	129,000	208/3/60	50.0	60.0	12.40	11.00	3.95	3.30	793.8	GMV-120WM/B-F(U)		REFRIGERANT R-410	123456789101112 13	
ACCU-3/4S-A	ROOF	3RD AND 4TH FLOORS SOUTH CLASSROOMS	8.0	92,000	103,000	208/3/60	37.0	40.0	13.20	11.00	4.15	3.30	661.5	GMV-96WM/B-F(U)	HEAT PUMP	REFRIGERANT R-410	123456789101112 13	
ACCU-3/4S-B	ROOF		8.0	92,000	103,000	208/3/60	37.0	40.0	13.20	11.00	4.15	3.30	661.5	GMV-96WM/B-F(U)		REFRIGERANT R-410	123456789101112 13	
ACCU-3/4S-C	ROOF		10.0	114,000	129,000	208/3/60	50.0	60.0	12.40	11.00	3.95	3.30	793.8	GMV-120WM/B-F(U)		REFRIGERANT R-410	123456789101112 13	
ACCU-5/6N-A	ROOF	5TH AND 6TH FLOORS NORTH CLASSROOMS	10.0	114,000	129,000	208/3/60	50.0	60.0	12.40	11.00	3.95	3.30	793.8	GMV-120WM/B-F(U)	HEAT PUMP	REFRIGERANT R-410	123456789101112 13	
ACCU-5/6N-B	ROOF		10.0	114,000	129,000	208/3/60	50.0	60.0	12.40	11.00	3.95	3.30	793.8	GMV-120WM/B-F(U)		REFRIGERANT R-410	123456789101112 13	
ACCU-5/6S-A	ROOF	5TH AND 6TH FLOORS SOUTH CLASSROOMS	8.0	92,000	103,000	208/3/60	37.0	40.0	13.20	11.00	4.15	3.30	661.5	GMV-96WM/B-F(U)	HEAT PUMP	REFRIGERANT R-410	123456789101112 13	
ACCU-5/6S-B	ROOF		8.0	92,000	103,000	208/3/60	37.0	40.0	13.20	11.00	4.15	3.30	661.5	GMV-96WM/B-F(U)		REFRIGERANT R-410	123456789101112 13	
ACCU-5/6S-C	ROOF		10.0	114,000	129,000	208/3/60	50.0	60.0	12.40	11.00	3.95	3.30	793.8	GMV-120WM/B-F(U)		REFRIGERANT R-410	123456789101112 13	
ACCU-CFT-A	ROOF	CELLAR CAFETERIA-KITCHEN AREA AND CORRIDOR	8.0	92,000	103,000	208/3/60	37.0	40.0	13.20	11.00	4.15	3.30	661.5	GMV-96WM/B-F(U)	HEAT PUMP	REFRIGERANT R-410	123456789101112 13	
ACCU-CFT-B	ROOF		8.0	92,000	103,000	208/3/60	37.0	40.0	13.20	11.00	4.15	3.30	661.5	GMV-96WM/B-F(U)		REFRIGERANT R-410	123456789101112 13	
ACCU-COR-A	ROOF	3RD THRU 6TH FLOOR CORRIDORS	8.0	92,000	103,000	208/3/60	37.0	40.0	13.20	11.00	4.15	3.30	661.5	GMV-96WM/B-F(U)	HEAT PUMP	REFRIGERANT R-410	123456789101112 13	
ACCU-EMR	ROOF	ELEVATOR MACHINE ROOM ON ROOF	1.5	18,000	22,000	208/1/60	16.0	25.0	SEER=22.0	SEER=13.0	HSPF=10.5	HSPF=7.70	56.4	VIR18HP230V1B	HEAT PUMP	REFRIGERANT R-410	123456789101112 13	
ACCU-IT-A	ROOF	2ND FLOOR IT CLOSET/ROOM	2.0	24,000	28,000	208/1/60	21.0	25.0	SEER=21.0	SEER=13.0	HSPF=10.0	HSPF=7.70	176.4	GMV-24WL/C-T(U)	HEAT PUMP	REFRIGERANT R-410	123456789101112 13	
ACCU-IT-B	ROOF	MECHANICAL ROOM IT CLOSET/ROOM	2.0	24,000	28,000	208/1/60	21.0	25.0	SEER=21.0	SEER=13.0	HSPF=10.0	HSPF=7.70	176.4	GMV-24WL/C-T(U)	HEAT PUMP	REFRIGERANT R-410	123456789101112 13	

NOTES: SELECTION IS BASED ON: AIR ENTERING EVAP. COIL 80 DEGREES DB - 67 DEGREES WB

1. REFER TO MANUFACTURER PROVIDED DETAILED REFRIGERANT PIPE SIZING AND FITTINGS SCHEMATIC (NO DEVIATIONS ARE ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED).
2. EACH CONDENSING MODULE TO BE MOUNTED ON EQUIPMENT SUPPORTS WITH NEOPRENE RUBBER VIBRATION ISOLATION (CORK PADS ARE NOT ACCEPTABLE).
3. FUSED ELECTRICAL DISCONNECT SWITCH SHALL BE PROVIDED FOR EACH CONDENSER MODULE (BY ELECTRICAL CONTRACTOR).
4. PROVIDE THE FOLLOWING
   1. LIMITED 6 YEAR COMPRESSOR WARRANTY.
   2. LIMTED 2 YEAR PARTS WARRANTY.
5. PROVIDE PRE-INSULATED REFRIGERANT TUBING LINE SETS BY PDM WITH COPPER TUBING AND 1/2-INCH POLYETHYLENE FOAM INSULATION PLUS ADDITIONAL POLYETHYLENE SKIN
   K VALUE FOR INSULATION = 0.038 (IN COMPLIANCE WITH NYC ENERGY CODE).

EXHAUST FAN SCHEDULE

"GREENHECK" AS STANDARD

DESIGNATION	SERVICE	CFM	SONE RATING	S.P. (IN WG)	RPM	HP	INPUT WATTS	ELECTRICAL DATA	ROOF OPENING	APPROX WEIGHT	NOTES/OPTIONS	GREENHECK MODEL NO.
CEF-1	CELLAR COMPACTOR ROOM	75	0.3	0.75	681	N/A	128 W	115/1/60	N/A	12	REFER TO CEF FAN OPTION	SP-B150
CEF-2	STUDENT ADA BATHROOM ON 6TH FLR	75	0.3	0.125	747	N/A	9 W			12	REFER TO CEF FAN OPTION	SP-A90
KXF-1	FUTURE WARMING KICTHEN HOOD	1,200	11.9	1.25	1794	3/4		208/3/60	18.5x18.5	94	REFER TO KXF FAN OPTION	CUBE-161XP-7

CF FANS SHALL BE COMPLETE WITH:
1. MOTOR W/ THERMAL OVERLOAD
2. MOTOR W/ CSA APPROVAL
3. MOTOR WITH 40°F AMBIENT TEMPERATURE
4. MOTOR RATED FOR CONTINUOUS USE
5. SOLID STATE SPEED CONTROL (.65 AMPS) MOUNTED AND WIRED EXTERNALLY
6. DESIGNER GRILLE
7.EQUIPED WITH FUNCTON SWITCH
8. ROUND DUCT CONNECTION
9. ISOLATION KIT
10. POLYPROPYLENE WHEEL MATERIAL
11.ADJUSTABLE EASY INSTALLATION MOUNTING BRACKET
12. UL/cUl 507 LISTED-ELECTRIC FAN

KXF FAN SHALL BE COMPLETE WITH:
1.STANDARD CURB CAP SIZE-22 IN SQUARE
2. UL/cUL 762 LISTED-"POWER VENTILATORS FOR REST.EXH. APPLIANCE"
3. NEMA-3RD, TOGGLE SWITCH
4. JUCTION BOX MOUNTED AND WIRED
5. CURB EXTENTION-ALUMINUM VCE-22-A-15.25
6. HIGH TEMPERATURE CURB SEAL RATED FOR CONITNUOUS DUTY AT 2000° F
7. NON-STICK COATED WHEEL
8. HEAT BAFFLE
9.BEARING WITH GREASE FITTINGS,L 10 OF 100,000 HRS
10.CLEAN OUT PORT
11.1ONE YEAR STANDARD WARRANTY

HEAT RECOVERY BOX SCHEDULE

("GREE" AS STANDARD)

SYSTEM DESIGNATION	LOCATION	SERVING AREA	ELECTRICAL DATA VOLTS (Ø, HZ)	ELECTRICAL DATA POWER SUPPLY MCA	ELECTRICAL DATA POWER SUPPLY MOCP (FUSE)	OPERATING WT. (LBS)	MODEL NO.	REMARKS
HRU-1	REFER TO PLANS	1ST FLOOR AIR HANDLERS	208/1/60	0.2	15.0	41	NCHS4B(U)	4 PORTS
HRU-2	REFER TO PLANS	2ND FLOOR AIR HANDLERS	208/1/60	0.36	15.0	82	NCHS8B(U)	8 PORTS

STANDARD FEATURES
•ALLOWS CONNECTED INDOOR UNITS TO BE IN COOLING OR HEATING MODE SIMULTANEOUSLY
•INTERNAL COMPONENTS ARE INSULATED
  •EXTERNAL CASING INSULATION IS NOT NEEDED'
  •CONDENSATE DRAIN NOT NEEDED
•SERIES OR PARALLEL CONNECTION WITH ADDITIONAL HEAT RECOVERY UNITS
•FLEXIBLE PLACEMENT FOR SERVICE ACCESS OR PIPE ROUTING
•ACCESS PANELS
  •TOP PANEL FOR SOLENOID VALVE HEADS
  •REAR PANEL FOR CONTROL ACCESS
  •BOTTOM PANEL FOR REFRIGERANT CIRCUIT

- ALL REFRIGERANT PIPES REQUIRE INSULATION.
- EACH PORT CAN ALLOW UP TO 8 INDOOR UNITS WITH A MAXIMUM CAPACITY OF 48 MBH PER PORT.
- ALL COMMUNICATION CABLE TO BE MINIMUM 18 AWG, 2CONDUCTOR, STRANDED, SHIELDED AND MUST COMPLY WITH APPLICABLE LOCAL AND NATIONAL CODE.
- KIT COMPONENTS MUST BE KEPT DRY AND FREE OF DEBRIS BEFORE INSTALLATION.
- MUST FOLLOW INSTALLATION INSTRUCTIONS IN THE APPLICABLE LG INSTALLATION MANUAL.
- POWER WIRING CABLE SIZE MUST COMPLY WITH THE APPLICABLE LOCAL AND NATIONAL CODE.
- THIS UNIT COMES WITH A DRY NITROGEN CHARGE.

ENERGY RECOVERY VENTILATOR SCHEDULE

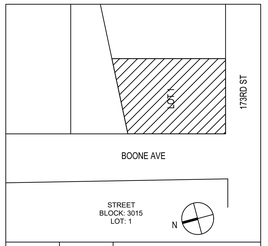
("RENEWAIRE" AS STANDARD)

DESIGNATION	MODEL NO	SERVING AREAS	ESP (W.C.)	SUPPLY AIR (CFM)	EXHAUST AIR (CFM)	PERFORMANCE DATA SUPPLY AIR WINTER DB/WB (°F)	SUPPLY AIR SUMMER DB/WB (°F)	OUTSIDE AIR WINTER DB/WB (°F)	OUTSIDE AIR SUMMER DB/WB (°F)	EXHAUST/ROOM AIR WINTER DB/WB (°F)	EXHAUST/ROOM AIR SUMMER DB/WB (°F)		WINTER (%)	SUMMER (%)	ELECTRICAL DATA V	Ø	HZ	M.C.A	M.O.C.P	SUPPLY MOTOR (BHP)	SUPPLY MOTOR HP	EXHAUST MOTOR (BHP)	EXHAUST MOTOR HP	SUPPLY MOTOR EFFICIENCY	EXHAUST MOTOR EFFICIENCY	WEIGHT (LBS)	SERIAL NUMBER	ETL/cUL LISTED No.
												T-EX-EFF.	62.3	52.3														
1	HE-3XJRTH-S35WV –DANT–-L	REFER TO PLANS	0.75"	2400	2500	49.3/40.0	81.2/66.7	13.9/8.7	92.4/74.0	70.0/54.4	75.0/62.6	S-EX-EFF.	68.2	68.2	208	3	60	21.1	25.0	2.38	3.0	2.38	3.0	N/A	N/A	975	----------	----------
												L-EX-EFF.	--	--														
												ASHRAE 90.1 EFFICIENCY SUMMER 50% WINTER 58%																	
												T-EX-EFF.	66.4	57.3														
2	HE-3XJRTH-S35VV –DANT–-L	REFER TO PLANS	0.75"	1970	2030	54.6/43.6	80.4/68.1	13.0/11.0	92.4/74.0	70.0/54.4	75.0/62.6	S-EX-EFF.	71.8	71.8	208	3	60	14.8	20.0	1.52	2.0	1.52	2.0	N/A	N/A	975	----------	----------
												L-EX-EFF.	--	--														
												ASHRAE 90.1 EFFICIENCY SUMMER 59% WINTER 68%																	
												T-EX-EFF.	68.2	59.3														
3	HE-1XNH-S15HH –DANT–-L	REFER TO PLANS	0.5"	540	600	57.2/45.4	79.5/67.5	13.0/11.0	92.4/74.0	70.0/54.4	75.0/62.6	S-EX-EFF.	73.2	73.2	208	3	60	10.1	15.0	N/A	0.75	N/A	0.75	N/A	N/A	275	----------	----------
												L-EX-EFF.	--	--														
												ASHRAE 90.1 EFFICIENCY SUMMER 64.0% WINTER 71.0%																	
												T-EX-EFF.	60.9	51.0														
4	HE-3XJRTH-S35XV –DANT–-L	REFER TO PLANS	0.75"	2625	2675	53.0/40.9	80.7/68.5	13.0/11.0	92.4/74.0	70.0/54.4	75.0/62.6	S-EX-EFF.	67.3	67.3	208	3	60	32.6	45.0	2.67	5.0	2.67	5.0	N/A	N/A	975	----------	----------
												L-EX-EFF.	--	--														
												ASHRAE 90.1 EFFICIENCY SUMMER 51.0% WINTER 60.9%																	
												T-EX-EFF.	51.6	62.0														
5	JE-6XJRTHN535XX –DANT-A-L	REFER TO PLANS	0.75"	5,000	5,000	53.4/41.3	79.7/67.9	13.0/11.0	92.4/74.0	70.0/54.4	75.0/62.6	S-EX-EFF.	68.2	68.2	208	3	60	32.6	45.0	3.48	5.0	3.48	5.0	N/A	N/A	2,760	----------	----------
												L-EX-EFF.	--	--														
												ASHRAE 90.1 EFFICIENCY SUMMER 51.6% WINTER 62.0%																	
												T-EX-EFF.	53.8	64.2														
6	E-10XJRTHN535XX –DANT-A-L	REFER TO PLANS	0.75"	7,600	7,600	53.0/41.0	79.5/67.7	13.0/11.0	92.4/74.0	70.0/54.4	75.0/62.6	S-EX-EFF.	69.8	69.8	208	3	60	32.6	45.0	4.73	5.0	4.73	5.0	N/A	N/A	4,000	----------	----------
												L-EX-EFF.	--	--														
												ASHRAE 90.1 EFFICIENCY SUMMER 53.8% WINTER 64.2%																	

PROVIDE ERV-1, ERV-2 AND ERV-4 THE FOLLOWING:
- UL/cUL 1995 COMPLIANT
- TEFC PREMIUM EFFICIENCY MOTORS
- MOTOR STARTER
- NO-FUSED DISCONNECT
- TRANSFORMER WITH ISOLATION RELAY
- MOTORIZED DAMPERS ON BOTH AIRSTREAMS
- MOTOR STARTERS AND CONTRACTORS
- 2 BELT DRIVE BLOWERS/MOTOR PACKAGE WITH ADJUSTABLE SHEAVES
- MERV 8 (20x20x2 (Quantity:2)

PROVIDE ERV-3 WITH THE FOLLOWING:
- UL/cUL 1995 COMPLIANT
- DIRECT DRIVE MOTORS
- SINGLE CONTRACTOR FOR COMMON FAN CONTROL
- NO-FUSED DISCONNECT
- TRANSFORMER WITH ISOLATION RELAY
- MOTORIZED DAMPERS ON BOTH AIRSTREAMS
- MERV 8 (20x20x2 (Quantity:2)

PROVIDE ERV-S AND ERV-N WITH THE FOLLOWING:
- UL/cUL 1995 COMPLIANT
- TEFC PREMIUM EFFICIENCY MOTORS
- MOTOR STARTER
- NO-FUSED DISCONNECT
- TRANSFORMER WITH ISOLATION RELAY
- MOTORIZED DAMPERS ON BOTH AIRSTREAMS
- MOTOR STARTERS AND CONTRACTORS
- 2 BELT DRIVE BLOWERS/MOTOR PACKAGE WITH ADJUSTABLE SHEAVES
- MERV 8 (20x20x2 (Quantity:2)
- NEOPRENE ISOLATORS
- HORIZONTAL ORIENTATION



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

ARCHITECT
Stephen B. Jacobs Group, P.C.
Architects and Planners
381 Park Ave South
New York, N.Y. 10016
212 421 3712

Owner
JSS BOONE LLC
511 CANAL ST. 5TH FLOOR
NEW YORK, NY 10013
(646)-476-9228

Structural Engineer
RODNEY D. GIBBLE CONSULTING ENGINEERS
18 WE

ROOF TOP AIR CONDITIONING UNIT SCHEDULE

UNIT TAG	NOMINAL TONNAGE	AIR FLOW		ESP	SUPPLY FAN (BHP)	COOLING CAPACITY (MBH)		HEATING CAPACITY (MBH)	HEATING EFFICIENCY		ELECTRICAL DATA			COOLING EFFICIENCY EER		UNIT WEIGHT, LB	TRANE MODEL No.	SERIAL No.	CONFIGURATION	SELECTED OPTIONS	REMARKS
		SUPPLY AIR (CFM)	OUTDOOR AIR (CFM)			TOTAL	SENSIBLE		REQ'D	ACTUAL	V/Ø/Hz	MCA	MOCP	REQ'D	ACTUAL						
RTU-1	20.0	8,000	1,600	0.75	4.48	253.70	175.63	244.51	N/A	N/A	208/3/60	264.0	300.0	EER=10.0	EER=10.0	2384	WSH240E3RRB**06C	12345678910	HORIZONTAL	1,2,4,5,8,9,10,11,12,15,16,17,19,21	ETL APPROVAL # LZFE.SA.6994

FACTORY OFFERED OPTIONS

1. ENTHALPY ECONOMIZER.
2. POWER EXHAUST.
3. BAROMETRIC RELIEF DAMPER (FOR UNITS 10 TON AND SMALLER).
4. FACTORY INSTALLED WEATHERPROOF NON-FUSED DISCONNECT SWITCH.
5. FACTORY INSTALLED WETHERPROOF GROUND FAULT INTERRUPTER CONVENIENCE OUTLET.
6. FACTORY INSTALLED SUPPLY AIR SMOKE DETECTOR.
7. FACTORY INSTALLED RETURN AIR SMOKE DETECTOR.
8. CO2 SENSOR.
9. BAROMETRIC HOOD
10. FIELD INSTALLED 14" HIGH FULL PERIMETER KNOCK DOWN ROOF CURB.
11. 2-SPEED INDOOR FAN MOTOR CONTROLLER BY VFD
12. ALICU LOUVERED HAIL GUARDS
13. PLUGGED FILTER INDICATOR.
14. W7212 CONTROL
15. STANDARD PACKAGING.
16. OUTDOOR OR RETURN AIR RH SENSOR.
17. R-410A REFRIGERANT.
18. LOW SOUND BLANKET.
19. MEDIUM STATIC OPTION.
20. BASE ELECTROMECHANICAL CONTROL.
21. ENTHALPY CONTROL FOR W7220 CONTROLLER.

1. 5-YEAR COMPRESSOR.
2. 1-YEAR PARTS.

FAN POWER LIMITATION (PER 2016 NYCECC SECTION)

RTU-1: 8,000 CFM x 0.00094+A =(7.52×0.96)= 8.05 BHP (FOR CONSTANT VOLUME)
WHERE A=0.96 (A=0.5"x 8000 CFM / (4131)=0.96) FOR FULLY DUCTED RETURN SYSTEMS
ACTUAL BRAKE HORSE POWER BHP =6.40 HP
6.40 BHP < 8.05 BHP ALLOWABLE; **THEREFORE**, SYSTEM PASSES

ENGINEER'S REMARKS

1. EXTERNAL STATIC PRESSURE CONSISTS OF DUCTWORK, DAMPERS, AND AIR DEVICES. AND 90% EFFICIENCY FILTERS.
2. ALL COOLING CAPACITIES ARE NET. FAN MOTOR HEAT MUST BE ADDED TO OBTAIN TOTAL COIL LOAD.
3. CONTRACTER SHALL INSURE THAT ALL ITEMS LISTED UNDER "ACCESSORIES TO BE PROVIDED BY MFG' ARE COORDINATED. IF MFG DOES NOT HAVE ANY ITEM AVAILABLE, CONTRACTER SHALL PROVIDE, COORDINATE, AND INSTALL SEPARATELY. REGARDLESS, ALL ITEMS SHALL BE PROVIDED, NO EXCEPTIONS.
4. ALL HEATING AND COOLING VALUES ARE TO BE BASED ON SITE ELEVATIONS.
5. POWER AND GAS REQUIREMENTS ARE BASED ON MAXIMUM VALUES FROM RTU MANUFACTURERS. COORDINATE VARIATIONS IN ELECTRICAL LOADS, ROOF OPENINGS AND ROOF CURB REQUIREMENTS.

WHEN ABOVE MENTIONED EQUIPMENT ARE INTENDED TO BE SUBSTITUTED IT IS HVAC CONTRACTOR RESPONSIBILITY TO CONFIRM ALL TECHNICAL DATA OF NEW EQUIPMENT WILL EQUAL OR EXCEED THAT SPECIFIED ON THIS DRAWING. ALSO, IT IS HVAC CONTRACTOR RESPONSIBILITY TO PROVIDE ALL CLEARANCES NECESSARY TO PROVIDE FUTURE ACCESS INTO UNIT FOR SERVICE AND MAINTENANCE.
ALSO, IN CASE IF NEW EQUIPMENT IS HEAVIER, HVAC CONTRACTOR SHALL COORDINATE WITH STRUCTURAL ENGINEER LOAD BEARING STRUCTURAL MEMBERS CAPABILITY.

AIR HANDLING UNIT SCHEDULE

("TRANE" AS STANDARD)

DESIGNATION	SUPPLY AIR FAN				COOLING CAPACITY		HEATING CAPACITY		OPERATING WT. - (LBS)	ELECTRICAL DATA					MODEL NO.	SERIAL #	LOCATION
	SUPPLY AIR CFM	OUTSIDE AIR CFM	BLOWER BHP	E.S.P. INCHES	TOTAL (MBH)	SENS (MBH)	TOTAL (MBH)	ELECTRIC HEATER		V	Ø	HZ	M.C.A.	M.O.C.P.			
AHU-1	8,000	1,600	3.57	0.75	247.08	184.46	140.34	N/A	818.0	208	3	60	18.0	30.0	TWE2404BAA*AB	??	INDOOR FLOOR MOUNTED

NOTES: SELECTION IS BASED ON: AIR ENTERING EVAP. COIL 80 DEGREES DB - 67 DEGREES WB
MECHANICAL CONTRACTOR SHALL PROVIDE COMPLETE WITH: MISC STEEL FOR SUPPORT, SPRING TYPE VIBRATION ISOLATORS, CANVAS FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCT CONNECTIONS, AUXILLIARY DRAIN PAN, THERMOSTAT,CONDENSATE PUMP - "LITTLE GIANT" MODEL No.VCC-20ULS, 208V, 1.5A, 93 WATTS, 25 GPH @ 15 FT , LEAK DETECTOR WITH AUDIBLE ALARM AND AC UNIT SHUT DOWN SWITCH

AIR COOLED CONDENSING UNIT SCHEDULE

("TRANE" AS STANDARD)

DESIGNATION	NOMINAL RATING (TONS)	NO. OF COMP.	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	ELECTRICAL DATA			COOLING EFFICIENCY EER RATING		HEATING EFFICIENCY COP		OPERATING WT. (LBS)	MODEL NO.	REMARKS	SERIAL #	LOCATION
					VOLTS (Ø, HZ)	POWER SUPPLY MCA	POWER SUPPLY MOCP (FUSE)	REQ'D	ACTUAL	REQ'D	ACTUAL					
ACCU-1	20.0	1	248.0	140.34	208-3-60	86.0	110.0	9.50	12.8	3.20	3.20	848.0	TWA24043DAB*AR	REFRIGERANT R-410A	XXXXXXX	INDOOR CEILING MOUNTED

UNITS STANDARD FEATURES:
Ceiling Mounted or Slab Mounted Package
Completely Serviceable at Ceiling w/ Access from Both Sides of Unit
Cabinets Constructed of Scratch Resistant Heavy Duty 18 Gauge Galvanized Steel
Splittable in Minutes w/ Resealable Refrigerant Fittings
½" Fiberglass Lined Cabinet (Thermal/Acoustical, min. 2 lb. density)
304 Stainless Steel Double Sloped Drain Pan in Evaporator Section
Condenser Drain Pan
2" MERV 8, Pleated Throwaway Filters
7/8" Drain Connection on Evaporator Section
Draw-through Air Flow Configuration
Belt Driven Blowers (Evaporator and Condensing Sections)
Resiliently Mounted Ball Bearings for Blowers
Ball Bearing Motors
Premium Efficiency Motors (1 HP & Above)
Cast Iron Pulleys and Motor Sheaves (Variable Pitch)
All Shafts, Sheaves & Pulleys Keyed
Adjustable Motor Mounts (Evaporator and Condensing Sections)
Inherently Protected Motors and Compressor(s)
R-410A Refrigerant Factory Charge (addt'l ref. req'd. for interconnecting lines, if split-system)
Adjustable Expansion Valve with External Equalizer (MOP Type)
Scroll Compressor(s)
Solenoid Operated 4-Way Reversing Valve
Suction Line Accumulator
Filter Drier (Each Circuit)
Sight Glass / Moisture Indicators
High and Low Side Schrader Valve Refrigerant Access Fittings
High (Manual Reset) and Low (Auto Reset) Refrigerant Pressure Safety Switches
Transformer with Built-in Circuit Breaker
Individual Contactor for Each Motor and Compressor
Dual Electrical Control Boxes
24 Volt Control Circuits
Loss of Air Safety Switch (when Electric Heat is Installed)
Individual Contactor for Each Stage of Electric Heat
Functionally Run Tested at the Factory
One (1) Year Limited Parts Warranty
Five (5) Year Limited Compressor Warranty

GRAVITY VENTILATOR SCHEDULE

DESIGNATION	SERVICE	CFM	THROAT VELOCITY	S.P. (IN WG)	THROAT W (IN) x L (IN)	BASE HEIGHT (IN)	LOUVER NUMBER	CURB CAP W (IN) x L (IN)	APPROX WEIGHT	NOTES/OPTIONS	GREENHECK MODEL NO.
FGR-1&FGR-2	STAIRWELL SMOKE RELIEF				36x42	5.0	N/A	42x48		SEE BELOW FOR FABRA HOOD OPTIONS	FGR-36x42

FABRA HOOD GRAVITY RELIEF VENTILATORS SHALL BE COMPLETE WITH:

1. INTERNAL FLAT EXPANDED 0.75" THICK ALUMINUM BIRD SCREEN.
2. 18-INCH HIGH GALVANIZED ROOF CURB WITH DAMPER TRAY (MODEL GPI)
3. PARALLEL BLADE DAMPER

DIFFUSER AND GRILLE SCHEDULE

DESIGNATION	MANUFACTURER	MODEL	FACE SIZE	NECK SIZE	CORE TYPE	CFM RANGE	TYPE OF MOUNTING	THROW (FT)	THROW DIR.	PRESS. DROP	SOUND RATING (N.C.)	VOLUME DAMPER
SR-6x4	TITUS	300RL	6x6	6x4	LOUVER	REFER TO DWGS	SURFACE	9	2 -WAY	0.077	N/A	YES
SR-14x6	TITUS	300RL	14x8	6x6	LOUVER	REFER TO DWGS	SURFACE	9	2 -WAY	0.077	N/A	YES
RR-8x8	TITUS	350RL	10x10	8x8	LOUVER	REFER TO DWGS	SURFACE	N/A	N/A	0.051	LESS 20	YES
RR-12x8	TITUS	350RL	14x10	12x8	LOUVER	REFER TO DWGS	SURFACE	N/A	N/A	0.051	LESS 20	YES
RR-12x10	TITUS	350RL	14x12	12x10	LOUVER	REFER TO DWGS	SURFACE	N/A	N/A	0.051	LESS 20	YES
RR-14x14	TITUS	350RL	16x16	14x14	LOUVER	REFER TO DWGS	SURFACE	N/A	N/A	0.051	LESS 20	YES
RR-44x44	TITUS	350RL	46x46	44x44	LOUVER	REFER TO DWGS	SURFACE	N/A	N/A	0.051	LESS 20	YES
ER-8x8	TITUS	350RL	10x10	8x8	LOUVER	REFER TO DWGS	SURFACE	N/A	N/A	0.051	LESS 20	YES
ER-10x10	TITUS	350RL	12x12	10x10	LOUVER	REFER TO DWGS	SURFACE	N/A	N/A	0.051	LESS 20	YES
ER-14x6	TITUS	350RL	16x8	14x6	LOUVER	REFER TO DWGS	SURFACE	N/A	N/A	0.051	LESS 20	YES
CD-24x24	TITUS	OMNI	24x24	6" RD	SQUARE PLAQUE	160	SURFACE	VARIES	4 -WAY	0.025	LESS 16	YES
				8" RD		101-180		VARIES		0.030	LESS 16	YES
				10" RD		181-275		VARIES		0.042	LESS 16	YES
				12" RD		275-395		VARIES		0.060	LESS 16	YES
				14" RD		396-535		VARIES		0.079	LESS 16	YES
				15" RD		536-825		VARIES		0.090	LESS 16	YES
CD-2	TITUS	TMR	36" RD	20" RD	ROUND CEILLING DIFFUSER	875-1100	DUCT MOUNTED	7-10 AND 8-12	4 -WAY	0.079	LESS 16	YES

NOTES: 1. ALL BORDER TYPES SHALL BE COORDINATED WITH CEILING SPECIFICATIONS.
2. FINISH. COLOR TO BE SELECTED BY ARCHITECT.
3. MOUNTING FRAME TYPE SHALL BE COORDINATED WITH CEILING/WALL CONSTRUCTION TYPE
4.ALL DEVICES SHALL BE PROVIDED WITH OPPOSED BLADE DAMPER AS INDICATED ON THE SCHEDULES ABOVE
5. CONTACT NANCY ROMAN AT ADE 516-568-6509 FOR ORDERING INFORMATION.

RTU - SEQUENCE OF OPERATION

A. THE RTU UNIT SHALL HAVE A WIRELESS BACNET CONTROLLER FACTORY INSTALLED AND COMMISSIONED., MICROPROCESSOR-BASED CONTROLLER ,WHICH SHALL MONITOR AND CONTROL THE RTU UNIT IN A STAND-ALONE MODE.

B. **SCHEDULING** - SCHEDULES SHALL CONSIST OF THE FOLLOWING:

1. **WEEKLY SCHEDULE**. PROVIDE SEPARATE SCHEDULES FOR EACH DAY OF THE WEEK.
2. **EXCEPTION SCHEDULES**. PROVIDE THE ABILITY FOR THE OPERATOR TO DESIGNATE ANY DAY OF THE YEAR AS AN EXCEPTION SCHEDULE. THIS EXCEPTION SCHEDULE SHALL OVERRIDE THE STANDARD SCHEDULE FOR THAT DAY.

C. **OCCUPANCY** - THE OCCUPANCY MODE CAN BE SCHEDULED BY THE SYSTEM CONTROLLER SC . VALID OCCUPANCY MODES FOR THE CONTROLLER SHALL BE:

1. **OCCUPIED:** NORMAL OPERATING MODE FOR OCCUPIED SPACES OR DAYTIME OPERATION. WHEN THE UNIT IS IN THE OCCUPIED MODE THE CONTROLLER SHALL MAINTAIN THE TEMPERATURE AT THE ACTIVE OCCUPIED SET POINTS. THE OCCUPIED MODE SHALL BE THE DEFAULT MODE OF THE CONTROLLER.
2. **UNOCCUPIED:** WHEN THE UNIT IS IN THE UNOCCUPIED MODE THE CONTROLLER SHALL MAINTAIN THE TEMPERATURE AT THE ACTIVE UNOCCUPIED SET POINTS.
3. SYSTEM CONTROLLER SHALL MONITOR ZONE SPACE TEMPERATURE UTILIZE THE MIN. , MAX. AND ZONE MEASUREMENTS DURING SYSTEM MODE OPERATION.

OPTIMAL START MODE

THE SYSTEM CONTROLLER SHALL INITIATE THE OPTIMAL START MODE SUCH THAT THE AIR HANDLER IS STARTED PRIOR TO WHEN THE SPACE BEING SERVED IS SCHEDULED TO BE OCCUPIED. TO ALLOW THE ZONE TEMPERATURE TO REACH THE PENDING OCCUPIED HEATING OR COOLING SETPOINT. THE SYSTEM SHALL WAIT AS LONG AS POSSIBLE BEFORE STARTING, SO THAT THE TEMPERATURE IN EACH ZONE REACHES THE OCCUPIED SETPOINT JUST IN TIME FOR SCHEDULED OCCUPANCY. VENTILATION FUNCTIONS SHALL BE DISABLED WHEN THE SYSTEM IS IN OPTIMAL START MODE.

1. THE CONTROLLER SHALL USE A SELF-ADJUSTING ALGORITHM TO CALCULATE THE ACTUAL TIME TO INITIATE OPTIMAL START FOR THE AIR SYSTEM BASED ON THE OCCUPIED SETPOINT, SPACE TEMPERATURE, HISTORICAL OPTIMAL START PERFORMANCE DATA AND THE ASSOCIATED HEATING OR COOLING OPTIMAL START RATE.
2. AN EARLY START LIMIT SHALL BE PROVIDED TO PREVENT THE SYSTEM FROM STARTING PRIOR TO 120 MINUTES (ADJ.) BEFORE SCHEDULED OCCUPANCY.
3. THE CONTROLLER SHALL TRANSITION FROM OPTIMAL START MODE TO OCCUPIED MODE WHEN THE CURRENT TIME IS EQUAL TO THE SCHEDULED START TIME.

E. **UNOCCUPIED (NIGHT SETBACK):**

a.**HEATING** : WHEN THE ZONE SPACE TEMPERATURE [MINIMUM ZONE TEMP] FALLS BELOW THE UNOCCUPIED HEATING SET POINT (ADJ.) THE SUPPLY FAN WILL START, THE OUTSIDE AIR DAMPER WILL REMAIN CLOSED, THE GAS FURNACE IS ENABLED., WHEN THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED HEATING SET POINT PLUS A DIFFERENTIAL (4°F ADJ.) THE SUPPLY FAN WILL STOP AND THE GAS FURNACE WILL BE DISABLED.

b.**COOLING** : WHEN THE ZONE SPACE TEMPERATURE [MAXIMUM ZONE TEMP] IS ABOVE THE UNOCCUPIED COOLING SET POINT (ADJ.) THE SUPPLY FAN WILL START, THE OUTSIDE AIR DAMPER WILL REMAIN CLOSED, THE DX COOLING WILL BE ENABLED., WHEN THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED COOLING SET POINT MINUS A DIFFERENTIAL (4°F ADJ.) THE SUPPLY FAN WILL STOP AND THE DX COOLING WILL BE DISABLED.

F. **FAN OPERATION** - THE SUPPLY AND RETURN FAN SHALL ALWAYS OPERATE CONTINUOUSLY IN ALL OCCUPIED MODES. THE SUPPLY FAN SHALL BE OFF WHENEVER THE RTU RUN STOP INTERLOCK IS OPEN, OR A SUPPLY FAN STATUS INDICATES A FAILURE.

G. **COOLING OPERATION** - WHEN SPACE TEMPERATURE IS ABOVE THE ACTIVE COOLING SET POINT , THE UNIT SHALL BE IN THE COOLING MODE. WHEN THE UNIT IS IN COOLING MODE, THE CONTROLLER SHALL RESET THE DISCHARGE COOLING SET POINT ACCORDING TO THE CONTROL LOOP DESCRIBED IN THE COOLING COIL SECTION BELOW.. BASED ON THE CONTROLLER OCCUPANCY MODE, THE ACTIVE COOLING SETPOINT SHALL BE ONE OF THE FOLLOWING:

SETPOINT	DEFAULT VALUE
OCCUPIED COOLING SETPOINT	74°F
UNOCCUPIED COOLING SETPOINT	85°F

HEATING OPERATION - WHEN SPACE TEMPERATURE IS BELOW THE ACTIVE HEATING SET POINT , THE UNIT SHALL BE IN THE HEATING MODE. WHEN THE UNIT IS IN HEATING MODE, THE CONTROLLER SHALL RESET THE DISCHARGE HEATING SET POINT ACCORDING TO THE CONTROL LOOP DESCRIBED IN THE HEATING COIL SECTION BELOW.. BASED ON THE CONTROLLER OCCUPANCY MODE, THE ACTIVE HEATING SETPOINT SHALL BE ONE OF THE FOLLOWING:

SETPOINT	DEFAULT VALUE
OCCUPIED HEATING SETPOINT	72°F
UNOCCUPIED HEATING SETPOINT	65°F

H. **FAN SPEED CONTROL** - THE CONTROL SYSTEM SHALL CONTINUOUSLY MONITOR THE TEMPERATURE OF THE SERVED ZONE TEMPERATURE SENSORS (AVERAGE ZONE SENSORS WHERE MULTIPLES ARE INSTALLED).
1. THE AVERAGE TEMPERATURE IN THE ZONE SHALL BE MAINTAINED BY VARYING THE QUANTITY OF AIR DELIVERED TO THE ZONE, RATHER THAN BY VARYING THE DISCHARGE AIR TEMPERATURE.
2. THE AVERAGE ZONE TEMPERATURE SHALL BE USED AS INPUTS TO THE DDC CONTROLLER ON THE AIR HANDLER TO BE USED TO DETERMINE THE SUPPLY FAN SPEED , THROUGH THE VFD, THAT IS AIRFLOW TO BE DELIVERED TO THE ZONE.
   i. WHEN THE AVERAGE SPACE TEMPERATURE RISES ABOVE THE COOLING ACTIVE SETPOINT [COOLING MODE], THE AIR HANDLER SHALL INCREASE THE VOLUME, FROM MINIMUM VFD SPEED SETPOINT TO MAXIMUM VFD SETPOINT, OF AIR BEING DELIVERED TO THE ZONE TO SATISFY THE ACTIVE COOLING ZONE TEMPERATURE SETPOINT.
   ii. ON A DECREASE IN COOLING LOAD IN THE ZONE, THE AIR HANDLER SHALL REDUCE THE VOLUME, FROM MAXIMUM VFD SPEED SETPOINT TO MINIMUM VFD SETPOINT, OF AIR BEING DELIVERED TO THE ZONE TO SATISFY THE ACTIVE COOLING ZONE TEMPERATURE SETPOINT.
   iii. WHEN THE AVERAGE SPACE TEMPERATURE IS BETWEEN THE COOLING AND HEATING ACTIVE SETPOINT [DEAD BAND], THE AIR HANDLER SHALL MAINTAIN THE MINIMUM VFD SPEED SETPOINT.
   iv. WHEN AVERAGE SPACE TEMPERATURE FALLS BELOW HEATING ACTIVE SETPOINT [HEATING MODE] , THE AIR HANDLER SHALL INCREASE THE VOLUME, FROM MINIMUM VFD SPEED SETPOINT TO MAXIMUM VFD SETPOINT, OF AIR BEING DELIVERED TO THE ZONE TO SATISFY THE ACTIVE HEATING ZONE TEMPERATURE SETPOINT.

I. **COOLING MODE:** THE UNIT CONTROLLER SHALL MONITOR SPACE TEMPERATURE AND SPACE TEMPERATURE COOLING SETPOINT TO DETERMINE WHEN TO INITIATE REQUESTS FOR COOLING. WHEN THE SPACE TEMPERATURE RISES ABOVE THE SPACE TEMPERATURE COOLING SETPOINT, THE UNIT CONTROLLER SHALL MODULATE THE ECONOMIZER OR STAGE THE MECHANICAL COOLING ON OR OFF AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE COOLING SETPOINT. THE FIRST COMPRESSOR SHALL ENERGIZE AFTER ITS MINIMUM 3-MINUTE OFF TIME HAS EXPIRED. THE SUPPLY FAN SHALL MODULATE ABOVE MINIMUM SPEED TO MEET ZONE REQUIREMENTS. IF ADDITIONAL COOLING CAPACITY IS REQUIRED THE SECOND STAGE OF COOLING SHALL BE ENABLED. ONCE THE SPACE TEMPERATURE FALLS BELOW THE SETPOINT THE COMPRESSORS SHALL BE DEACTIVATED AND THE FAN SHALL MODULATE TO MINIMUM SPEED.

J. **HEATING MODE:** THE UNIT CONTROLLER SHALL MONITOR SPACE TEMPERATURE AND SPACE TEMPERATURE HEATING SETPOINT TO DETERMINE WHEN TO INITIATE REQUESTS FOR HEAT. WHEN THE SPACE TEMPERATURE DROPS BELOW THE SPACE TEMPERATURE HEATING SETPOINT, THE CONTROLLER SHALL ENABLE THE FIRST STAGE OF HEAT. IF ADDITIONAL HEATING CAPACITY IS REQUIRED THE SECOND STAGE OF HEAT SHALL BE ENABLED. THE SUPPLY FAN WILL REMAIN AT 100% DURING HEATING OPERATION. ONCE THE SPACE TEMPERATURE RISES ABOVE THE SETPOINT, THE HEATING STAGES SHALL BE DISABLED AND THE SUPPLY FAN SPEED WILL VARY ACCORDING TO VENTILATION AND COOLING MODES.

K. **DEHUMIDIFICATION:** FACTORY INSTALLED HOT GAS REHEAT SHALL ALLOW APPLICATION OF DEHUMIDIFICATION. DEHUMIDIFICATION SHALL BE ALLOWED ONLY WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE 40.0 DEG. F AND BELOW 100.0 DEG. F. THE ECONOMIZER OUTSIDE AIR DAMPER SHALL DRIVE TO MINIMUM POSITION DURING DEHUMIDIFICATION.

SINGLE COMPRESSOR UNITS: ON A CALL FOR DEHUMIDIFICATION, THE REHEAT VALVE SHALL ENERGIZE AND THE COMPRESSOR SHALL ENABLE. WHEN THE HUMIDITY CONTROL SETPOINT IS SATISFIED, THE VALVE SHALL BE DE-ENERGIZED AND THE COMPRESSOR SHALL BE DISABLED. IF THERE IS A CALL FOR COOLING FROM THE SPACE TEMPERATURE CONTROLLER, WHILE IN REHEAT, THE REHEAT VALVE SHALL BE DE-ENERGIZED AND THE COMPRESSOR CONTINUES TO RUN.

DUAL COMPRESSOR UNITS:ON A CALL FOR DEHUMIDIFICATION, THE REHEAT VALVE SHALL ENERGIZE AND BOTH COMPRESSORS SHALL ENABLE. WHEN THE HUMIDITY CONTROL SETPOINT IS SATISFIED, THE VALVE SHALL BE DE-ENERGIZED AND BOTH COMPRESSORS SHALL BE DISABLED. IF THERE IS A CALL FOR 1ST STAGE COOLING WHILE IN THE DEHUMIDIFICATION MODE, NO ACTION SHALL TAKE PLACE. IF THERE IS A CALL FOR 2ND STAGE COOLING, THE REHEAT VALVE SHALL BE DE-ENERGIZED, AND THE UNIT SHALL REVERT TO THE COOLING MODE. IF 2ND STAGE COOLING IS SATISFIED AND THERE IS STILL A CALL FOR DEHUMIDIFICATION, THE REHEAT VALVE SHALL ONCE AGAIN BE ENERGIZED.

L. **ECONOMIZER CONTROL / COMPARATIVE ENTHALPY:** THE SUPPLY AIR SENSOR SHALL MEASURE THE DRY BULB TEMPERATURE OF THE AIR LEAVING THE EVAPORATOR COIL WHILE ECONOMIZING. WHEN ECONOMIZING IS ENABLED AND THE UNIT IS OPERATING IN THE COOLING MODE, THE ECONOMIZER DAMPER SHALL MODULATE BETWEEN ITS MINIMUM POSITION AND 100% TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. MINIMUM POSITION SHALL BE CALCULATED BASED ON SUPPLY FAN SPEED. IF THE MIXED AIR TEMPERATURE STARTS TO FALL BELOW 53.0 DEG. F, THE ECONOMIZER STARTS TO CLOSE, AT 50.0 DEG. F, THE DAMPER SHALL BE AT MINIMUM POSITION. COMPRESSORS SHALL BE DELAYED FROM OPERATING UNTIL THE ECONOMIZER HAS OPENED TO 100% FOR 5 MINUTES.

COMPARATIVE ENTHALPY: OUTSIDE AIR (OA) ENTHALPY IS COMPARED WITH RETURN AIR (RA) ENTHALPY POINT. THE ECONOMIZER SHALL BE ENABLED WHEN OA ENTHALPY IS LESS THAN RA - 3.0 BTU/LB. THE ECONOMIZER SHALL BE DISABLED WHEN OA ENTHALPY IS GREATER THAN RA ENTHALPY.

4.02 SAFETIES AND ALARMS

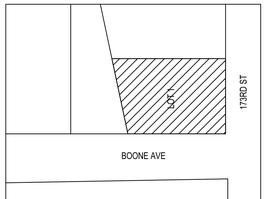
A. **SUPPLY FAN STATUS** - THE CONTROLLER SHALL MONITOR THE FAN OUTPUTS TO DETERMINE FAN STATUS AND SUPPORT A POSITIVE PROOF FAN SWITCH. IF AFTER A MINUTE OF ENERGIZING THE FAN OUTPUT OR DURING NORMAL OPERATION THE FAN STATUS SWITCH INDICATES NO FAN OPERATION, THE CONTROLLER SHALL PERFORM A SHUTDOWN AND GENERATE A FAN FAILURE DIAGNOSTIC. THE DIAGNOSTIC SHALL BE RESET MANUALLY.

B. **FILTER STATUS:** A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER WHEN THE FAN IS RUNNING. IF THE SWITCH CLOSES FOR 2 MINUTES AFTER A REQUEST FOR FAN OPERATION A DIRTY FILTER ALARM SHALL BE ANNUNCIATED AT THE CONTROLLER.

ELECTRIC HEATER SCHEDULE

DESIGNATION	LOCATION	CFM	KW/MBH	MANUFACTURER	MODEL No.	MOUNTING	DIMENSIONS	
EUH 1	VARIOUS MACHINE RMS	400	3.3/11.2	MARKEL	F2F5103N	WALL MOUNTED W/ BRACKET MN# A5105	17-3/4"x14-15/32"x6-1/2"	208VOLT, 3PHASE, 6.9 AMPS WITH REMOTE THERMOSTAT
EWH 1	STAIRWELLS	245	4.0/13.6	MARKEL	3450 SERIES HEATER MODEL# IA4541	SURFACE	23" (H)x 14" (W)x4" (D)	208VOLT, 3 PHASE, 11.1 AMPS IN-BUILT THREE POLE THERMOSTAT FOR POSITIVE OFF POSITION MANUAL RESET THERMAL SWITCH
EWH 2	STAIRWELLS	175	1.125/3.84	MARKEL	3320 SERIES HEATER MODEL# HF3323T2D-RP	SURFACE	19" (H)x 14" (W)x4" (D)	208VOLT, 1 PHASE, 5.4 AMPS IN-BUILT DOUBLE POLE TAMPER PROOF THERMOSTAT AUTOMATIC RESET THERMAL LIMIT,AUTOMATIC FAN RELAY, DISCONNECT SWITCH AND 16 GA STEEL HEAVY DUTY GRILL
ECUH 1	VARIOUS VESTIBULES	250/230	3.0/11.0	MARKEL	6300 SD SERIES HEATER MODEL# 6333D03203B5SOF	WALL MOUNTED	33"x9"x25"	208VOLT, 3 PHASE, 13.4 AMPS WITH 2-STAGE THERMOSTAT AND RELAYS OPERATED BY 24V SOURCE, SUMMER FAN SWITCH, MOTOR FUSING, DEAD-FRONT CIRCUIT BREAKER, RECESSED TRIM FRAME, KICK SPACE BASE.
EH 1	ROOF ADA BATHROOM	65	0.75	QMARK	CWH-1151DS	SEMI-RECESSED	10.5"x12.5"(H)x3.875"	120 VOLTS, 1 PHASE, 6.25 AMPS WITH REMOTE THERMOSTAT

NOTE: ALL ELECTRIC HEATERS SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR COMPLETE WITH ALL REQUIRED THERMOSTATS, RELAYS, AND ANY MISCELLANEOUS APPURTENANCES FOR A COMPLETE AND OPERATIONAL



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

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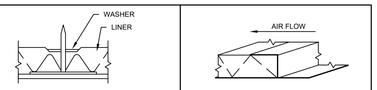
PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

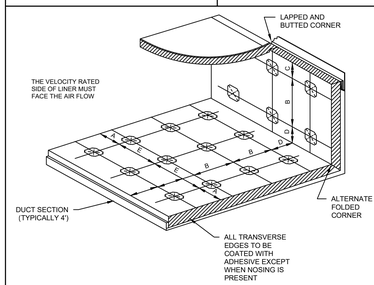
DRAWING TITLE
MECHANICAL EQUIPMENT SCHEDULES

Seal & Signature:

DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:
M-301.00
SHEET 16 OF 18

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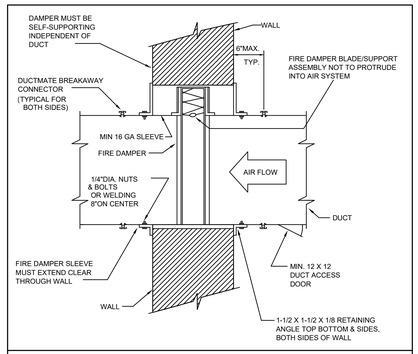
VELOCITY*	DIMENSIONS				
	A	B	C	D	E
0-2500FPM	3"	12"	4"	6"	18"
2501-6000 FPM	3"	6"	4"	6"	16"

1. MAXIMUM SPACING FOR FASTENERS. ACTUAL INTERVALS ARE APPROXIMATE.
2. "A" PIN ROW MAY BE OMITTED WHEN METAL NOSING IS USED. "E" THEN STARTS FROM THE NOSING.
3. UNLESS A LOWER LEVEL IS SET BY MANUFACTURER OR LISTING AGENCY.

NOTES:
1. LINER SHALL BE ADHERED TO THE DUCT WITH 90% MIN. AREA COVERAGE OF ADHESIVE.
2. PINS SHALL BE PLACED 3" ALONG EACH SIDE OF A BUTTED LONGITUDINAL LINER SEAM THAT IS AWAY FROM A CORNER.
3. INSTALLED PINS AND WASHERS SHALL NOT COMPRESS LINER MORE THAN THE CORRECT LENGTH SPECIFIED FOR THE LINER THICKNESS USED.
4. INTERIOR WIDTH OF 8" AND LESS DOES NOT REQUIRE PINS.
5. METAL NOSING MUST BE USED WHEREVER LINER IS PRECEDED BY UNLINED METAL; WHEN WHEN VELOCITY EXCEEDS 4000FPM USE METAL NOSING ON EVERY LEADING EDGE.
6. NOSING MAY BE FORMED ON DUCT OR BE CHANNEL OR ZEE ATTACHED BY SCREWS, RIVETS OR WELDS.
7. THIS DETAIL IS CONSISTANT WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS- SECOND EDITION.

ACOUSTICAL LINING DETAIL

NOT TO SCALE



VERTICAL MOUNTINGS SHOWN - HORIZONTAL MOUNTINGS SIMILAR NOTES

FIRE DAMPER CLEARANCE WITHIN THE WALL OPENING TO BE LIMITED TO 1/8 INCH PER LINEAR FOOT OF BOTH DIMENSIONS IN ACCORDANCE WITH SMACNA REQUIRMENTS.

DAMPER SHALL BE SECURED TO COLLAR WITH 1/4" DIAMETER NUTS AND BOLTS OR WELDING IN THE MOUNTING HOLES AS PROVIDED OR NO. 10 SHEET METAL SCREWS 8" ON CENTER OF 3/16" STEEL POP RIVETS.

COLLARS SHALL BE MINIMUM 16 GAUGE OR 14 GAUGE FOR DUCTS ABOVE 24" H X 36" W. GAUGES SHALL CONFORM TO SMACNA OR ASHRAE DUCT STANDARDS FOR HEAVIER GAUGES.

DAMPERS SHALL HAVE A CLEARANCE OF 1/4" PER FOOT ON HEIGHT AND WIDTH, AND ANGLES SHALL INCREASE IN SIZE PROPORTIONATELY SO THAT THERE WILL BE AMINIMUM OF 1" OVERLAP ON THE PARTITION.

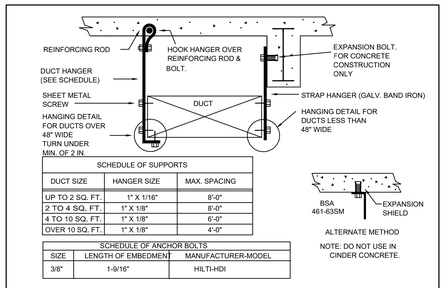
AS WITH ALL JOINTS, CONTRACTOR MUST SEAL COLLAR IN FIELD AFTER INSTALLATION.

FIRE DAMPER ASSEMBLY MUST COMPLY WITH UL LISTING/LABELING AND UL 555

NYC BSA # 292-71-SM

TYPICAL FIRE DAMPER DETAIL

NOT TO SCALE



SCHEDULE OF SUPPORTS		
DUCT SIZE	HANGER SIZE	MAX. SPACING
UP TO 2 SQ. FT.	1" X 1/16"	8'-0"
2 TO 4 SQ. FT.	1" X 1/8"	8'-0"
4 TO 10 SQ. FT.	1" X 1/8"	6'-0"
OVER 10 SQ. FT.	1" X 1/8"	4'-0"

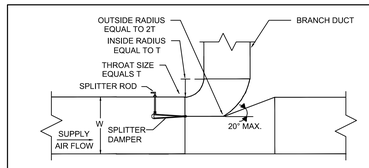
SCHEDULE OF ANCHOR BOLTS		
SIZE	LENGTH OF EMBEDMENT	MANUFACTURER-MODEL
3/8"	1-9/16"	HILTI-HDI

DUCT HANGING DETAIL

NOT TO SCALE

DUCT CONSTRUCTION SCHEDULE

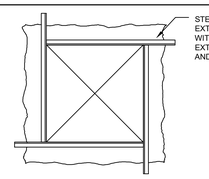
DIMENSION OF LONGEST SIDE OF DUCT (IN.)	SHEET METAL GAUGES		RECOMMENDED JOINT CONSTRUCTION	MAX. JOINT SPACING
	STEEL	ALUMINUM		
UP TO 24"	24	22 (.025)	POCKET SLIP BAR - S SLIP	8'-0"
24 THRU 30	24	22 (.025)	POCKET SLIP BAR - S SLIP	4'-0"
31 THRU 60	22	20 (.032)	POCKET SLIP BAR - S SLIP	4'-0"
61 THRU 72	20	18 (.040)	REINFORCED POCKET SLIP REINFORCED BAR - S	4'-0"
73 THRU 90	20	18 (.040)	REINFORCED POCKET SLIP REINFORCED BAR - S	4'-0"
91 AND UP	18	16 (.051)	REINFORCED POCKET SLIP REINFORCED BAR - S	4'-0"



NOTES:
1. FURNISH THIS TYPE CONNECTION WHERE NOTED & WHEN SINGLE LINE DUCTWORK IS INDICATED AS THIS I FOR LOW PRESSURE BRANCHES WITH MORE THAN 700 CFM & MEDIUM PRESSURE BRANCHES WITH MORE THAN 1000 CFM.
2. FURNISH THIS TYPE CONNECTION WITHOUT HAND DAMPER FOR ALL HIGH PRESSURE DUCTWORK BRANCHES.
3. MUST BE USED WHEN W > 36". F:\DETAILS\MECHANICAL-DETAILS\RDBWTVD.DWG

RECTANGULAR DUCT BRANCH WITH THROAT AND VOLUME DAMPER

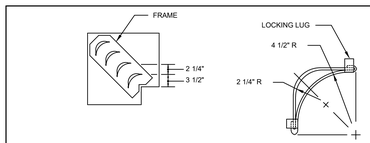
NOT TO SCALE



FOR DUCTS UP TO 30" USE 1 X 1 X 1/8" ANGLE
FOR DUCTS FROM 30" - 60" USE 1-1/4 X 1-1/4 X 1/8" ANGLE
FOR DUCTS ABOVE 60" USE 1-1/2" X 1-1/2" X 1/8" ANGLE

VERTICAL DUCT SUPPORT DETAIL

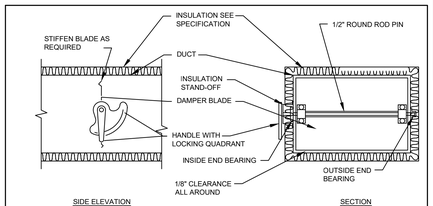
NOT TO SCALE



NOTES:
1. LOCKING LUGS INTEGRAL WITH VANE
2. MAXIMUM UNSUPPORTED VANE LENGTH 48"
3. FRAMES-BOLTED OR RIVETED TO ELBOW
4. VANES AND FRAMES - SAME GAUGE AS ELBOW

ELBOW WITH TURNING VANES

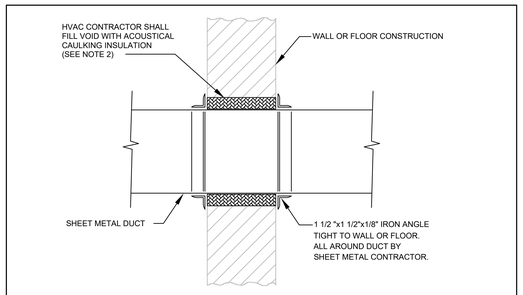
NOT TO SCALE



1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

MANUAL DAMPER DETAIL

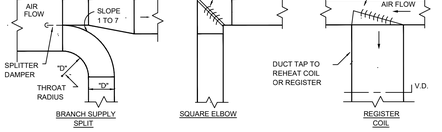
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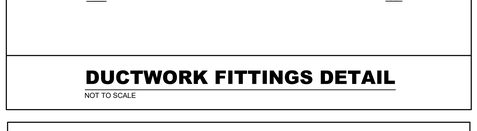


NOTES:
1. APPLIES TO WALLS THAT DOES NOT REQUIRE FIRE DAMPER.
2. FOR WALLS REQUIRING FIRE DAMPERS SEE OTHER DETAILS.
3. PACK WITH GLASS FIBER OR ROCKWOOL PACKED TIGHTLY AND SEAL WITH JOHNS MANVILLE DUCT SEAL OR UNI-SEAL.

DUCT CAULKING AT WALL PENETRATION

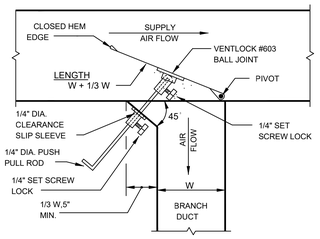
NOT TO SCALE





DUCTWORK FITTINGS DETAIL

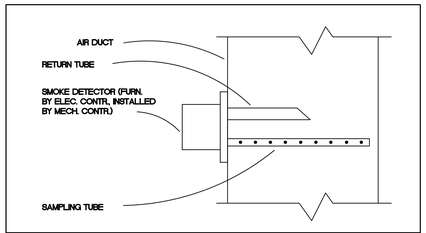
NOT TO SCALE



NOTES:
THIS TYPE CONNECTION MAY BE FURNISHED WHEN SINGLE LINE DUCTWORK IS INDICATED AS THIS FOR LOW PRESSURE BRANCHES WITH LESS THAN 700 CFM.

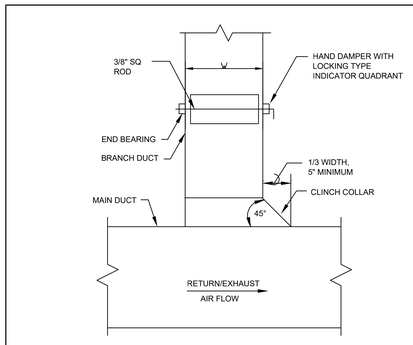
RECTANGULAR DUCT TAP WITH SPLITTER DAMPER

NOT TO SCALE



SMOKE DETECTOR DETAIL

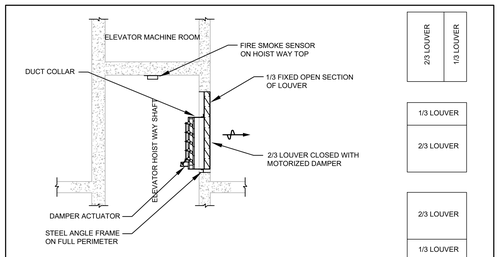
NOT TO SCALE



NOTE: FURNISH THIS TYPE CONNECTION WHEN SINGLE LINE DUCTWORK IS INDICATED AS THIS FOR LOW PRESSURE BRANCHES WITH LESS THAN 700 CFM AND MEDIUM PRESSURE BRANCHES WITH LESS THAN 1000 CFM

RETURN/EXHAUST REDTANGULAR DUCT TAP WITH VOLUME DAMPER

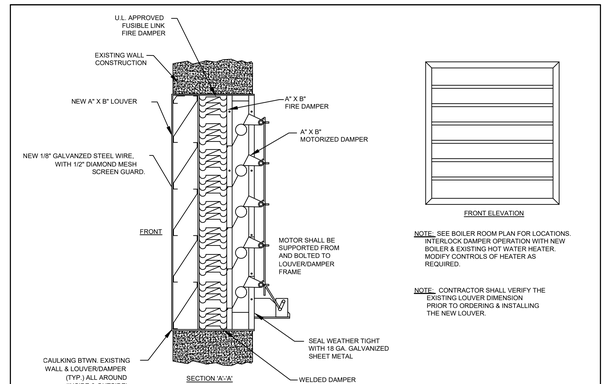
NOT TO SCALE



NOTES:
1. 36x24 SMOKE VENT LOUVER IN ELEVATOR SHAFT. 1/3 OF OPENING MUST BE PERMANENTLY OPEN. 2/3 OF LOUVER SHALL BE EQUIPPED WITH PLENUM AND MOTORIZED FIRE SMOKE DAMPER. DAMPER SHALL BE NORMALLY CLOSED AND OPEN WHEN FIRE SMOKE SENSOR IN HOIST WAY IS ACTIVATED.
ALL SMOKE VENT DAMPERS SHALL COMPLY WITH LEAKAGE RATE SHALL BE CLASS 1 (MAXIMUM OF 3 CFM PER 100 SQ FT)
2. LOUVER SHALL BE "GREENHECK" MODELS ESD-403, ESD-603 OR RECOGNIZED EQUAL.
3. MOTORIZED COMBINATION FIRE SMOKE DAMPER SHALL BE "GREENHECK" MODEL FSD-211 OR RECOGNIZED EQUAL.
4. DAMPER ACTUATOR SHALL BE "GREENHECK" MODEL MS4120F1006 OR RECOGNIZED EQUAL.

ELEVATOR HOIST WAY VENTILATION DETAIL

NOT TO SCALE



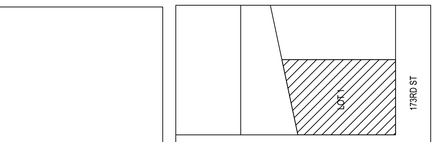
NOTE: SEE BOILER ROOM PLAN FOR LOCATIONS. INTERLOCK DAMPER OPERATION WITH NEW BOILER & EXISTING HOT WATER HEATER. MODIFY CONTROLS OF HEATER AS REQUIRED.

NOTE: CONTRACTOR SHALL VERIFY THE EXISTING LOUVER DIMENSION PRIOR TO ORDERING & INSTALLING THE NEW LOUVER.

NOTE: REFER TO DRAWING M-149 FOR LOUVER SIZES "A" AND "B".

COMBUSTION AIR INTAKE LOUVER DETAIL

NOT TO SCALE



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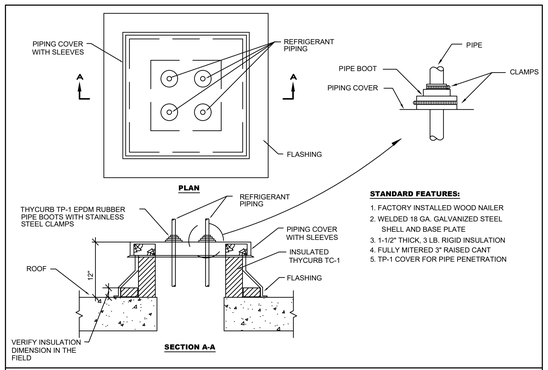
PROJECT NAME
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MECHANICAL DETAILS

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STANDARD FEATURES:

1. FACTORY INSTALLED WOOD NAILER
2. WELDED 18 GA. GALVANIZED STEEL SHELL AND BASE PLATE
3. 1-1/2" THICK, 3 LB. RIGID INSULATION
4. FULLY MITERED 3° RAISED CANT
5. TP-1 COVER FOR PIPE PENETRATION

NOTE: 3-1/2" DIAMETER COLLARS ACCOMMODATE PIPES 1/2" TO 2-1/2" NOM.
6-1/2" DIAMETER COLLARS ACCOMMODATE PIPES 3" TO 5" NOM.

DETAIL OF PIPE FLASHING CURB

NOT TO SCALE

1. THERMAL CERAMICS FIREMASTER FASTWRAP XL OR PYROSCAT XL HAS BEEN TESTED IN ACCORDANCE WITH ASTM E2336 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND MEETS THE REQUIREMENTS FOR ONE OR TWO HOUR ENCLOSURES. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH EITHER ASTM E 814 OR UL 1479. ICC-ES APPROVAL PER REPORT ESR 2213 OR ESR 2832. UNDERWRITER'S LABORATORIES (UL) LISTINGS SHOW COMPLIANCE TO UL 1479 FOR THROUGH PENETRATION FIRESTOP SYSTEMS.

2. COMPLIANT TO THE FOLLOWING CODES:
NFPA 96
2003 AND 2006 INTERNATIONAL MECHANICAL CODES
2006 UNIFORM MECHANICAL CODE.

3. INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON INSIDE LAYER AND 3 INCH MINIMUM OVERLAPS ON BOTH PERIMETER AND LONGITUDINAL OVERLAPS ON OUTSIDE LAYER.

4. GREASE EXHAUST DUCT RUNS FROM THE HOOD EXHAUST CONNECTION UP TO THE EXHAUST FAN ON THE ROOF WITH MINIMAL TURNS OR BENDS AND MAINTAINING MINIMUM 1/4 UNIT VERTICAL RISE PER 12 UNITS HORIZONTAL RUN. NFPA 96 COMPLIANT ACCESS DOORS LOCATED AS REQUIRED BY CODE.

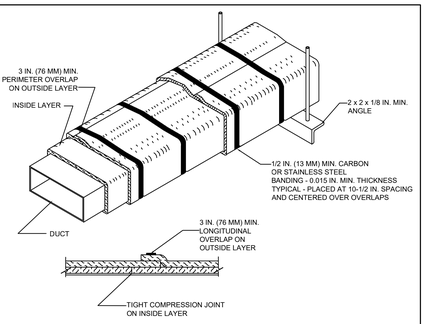
5. THERMAL CERAMICS FIREMASTER ACCESS DOORS AS SPECIFIED IN ICC-ES BUILDING CODE REPORTS ESR 2213 OR ESR 2832.

6. ROOF MOUNTED EXHAUST FAN IS MOUNTED ON A HINGED BASE WHICH ALLOWS ACCESS TO THE DUCT FROM THE ROOF.

7. SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE AT LEAST A MINIMUM OF 3/8 IN. DIAMETER. USE MINIMUM 2 X 2 X 1/8 IN. STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.

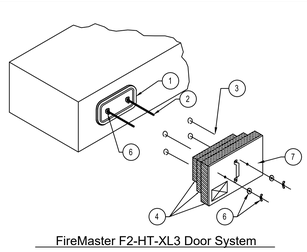
8. THERMAL CERAMICS DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

9. THERMAL CERAMICS DUCT WRAP SHALL BE INSTALLED ON THE DUCT FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.



COMMERCIAL KITCHEN GREASE DUCT SYSTEM

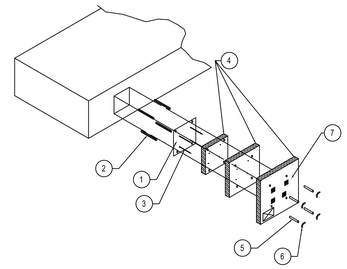
NOT TO SCALE



FireMaster F2-HT-XL3 Door System

NOTE: Available from Thermal Ceramics FireMaster Distributors.

Note:
Label Required
"Access Door"
Do Not Obstruct



FireMaster Field Fabricated Door System

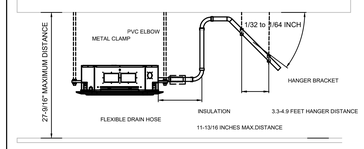
Note:
Label Required
"Access Door"
Do Not Obstruct

LEGEND	
1	DuctMate F2-HT Access Door or 16 Gage Field Fabricated Access Door.
2	All Thread Rods.
3	Installation Pins with Speed Clips.
4	Three Layers of FireMaster FastWrap XL Blanket with Minimum 1" Overlaps and All Edges Sealed with Aluminum Tape.
5	Spool Pieces for Threaded Rods
6	Wing Nuts and Washers
7	Outer Cover Plate Labled "ACCESS DOOR - DO NOT OBSTRUCT"

The integrity of the duct wrap insulation product is limited to the quality of the installation

COMMERCIAL KITCHEN GREASE DUCT DOOR SYSTEM

NOT TO SCALE



CASSETTE UNIT DRAIN INFORMATION

WHEN THE BOTTOM SURFACE OF THE INDOOR UNIT IS AT AN ELEVATION BELOW THE RECEIVING BUILDING DRAIN LINE CONNECTION, INSTALL AN INVERTED TRAP AT THE TOP OF THE CONDENSATE PUMP DISCHARGE RISER BEFORE CONNECTION TO THE BUILDING DRAIN PIPE.

WHEN THE RECEIVING DRAIN LINE IS MOUNTED HORIZONTAL, CONNECT THE INVERTED TRAP TO THE TOP HALF OF THE PIPE. THE CONNECTION POINT OF THE INVERTED TRAP TO THE BUILDING DRAIN PIPE SHOULD ALWAYS BE TO THE TOP HALF OF THE PIPE AND SHOULD NEVER BE OVER 45° EITHER SIDE OF THE UPPER MOST POINT OF THE HORIZONTAL BUILDING DRAIN LINE.IF CONNECTING TO A VERTICAL DRAIN LINE OR PLUMBING SYSTEM VENT LINE, CONNECT THE IDU CONDENSATE PUMP DISCHARGE LINE USING A Y-45 FITTING WITH THE DOUBLE END OF THE Y-45 FITTING FACING UP. WHEN CONNECTING TO A VERTICAL DRAIN LINE INCLUDE AN INVERTED TRAP AT THE TOP OF THE IDU CONDENSATE PUMP DISCHARGE RISER BEFORE CONNECTION TO THE Y-45 FITTING.

CONDENSATE PUMP CONNECTION

ALL CASSETTE UNITS HAVE A CONDENSATE PUMP. NOTE THE FOLLOWING WHEN CONNECTING THE CONDENSATE PIPE TO THE UNIT.INDOOR UNITS DO NOT COME WITH CHECK VALVES OR A BACK FLOW PREVENTION DEVICE. IF CHECK VALVES ARE NEEDED, THEY MUST BE FIELD SUPPLIED.THE MAXIMUM LIFT OF ALL CONDENSATE PUMPS IS 27 IN.-WG.MEASURE LIFT DISTANCE FROM THE BOTTOM SURFACE OF THE INDOOR UNIT, NOT FROM THE CONDENSATE PIPE CONNECTION.SLOPE ALL HORIZONTAL CONDENSATE PIPE SEGMENTS A MINIMUM OF 1/4 INCH PER FOOT AWAY FROM THE INDOOR UNIT.

INDOOR UNIT DRAIN PIPING

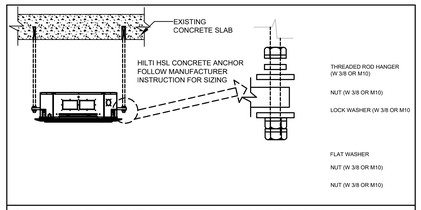
1. DRAIN PIPING MUST SLOPE DOWN 1/32 TO 1/64 INCHES.TO PREVENT REVERSE FLOW DO NOT SLOPE THE DRAIN PIPING UP.
2. WHEN CONNECTING DRAIN PIPING , DO NOT EXERT EXTRA FORCE ON THE DRAIN PORT OF THE INDOOR UNIT
3. THE OUTSIDE DIAMETER OF THE DRAIN CONNECTION ON THE INDOOR UNIT IS 1-1/4 INCHES
4. PIPING MATERIAL-POLYVINYL CHLORIDE PIPE INNER DIAMETER 1 INCH AND PIPE FITTINGS
5. HEAT INSULATION MATERIAL-POLYETHYLENE FOAM WITH THICKNESS MORE THAN 5/16 INCH.

DRAIN TEST

THE UNIT USES A DRAIN PUMP TO DRAIN WATER FOLLOW THESE INSTRUCTIONS TO TEST THE DRAIN PUMP OPERATION.
1. CONNECT THE MAIN DRAIN PIPE TO THE EXTERIOR.
2. FEED WATER TO THE FLEXIBLE DRAIN HOSE AND CHECK THE PIPING FOR LEAKAGE.
3. CHECK THE DRAIN PUMP FOR NORMAL OPERATION AND NOISE WHEN ELECTRICAL WIRING IS COMPLETE.
4. WHEN THE TEST IS COMPLETE, CONNECT THE FLEXIBLE DRAIN HOSE TO THE DRAIN PORT ON THE INDOOR UNIT.

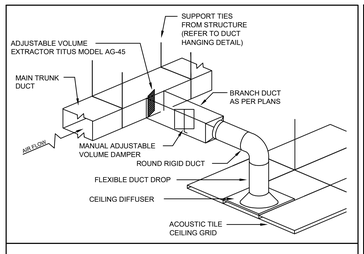
INDOOR UNIT DRAIN PIPING DETAIL

NOT TO SCALE



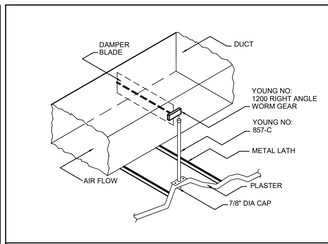
CEILING CASSETTE HANGING DETAIL

NOT TO SCALE



DETAIL OF DUCT RUN-OUT TO CEILING DIFFUSER

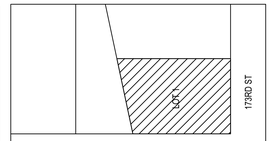
NOT TO SCALE



NOTE: APPLICABLE TO SHEETROCK/PLASTER CEILING AREAS ONLY.

VOLUME CONTROL DAMPER

NOT TO SCALE



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DRAWING TITLE

MECHANICAL DETAILS

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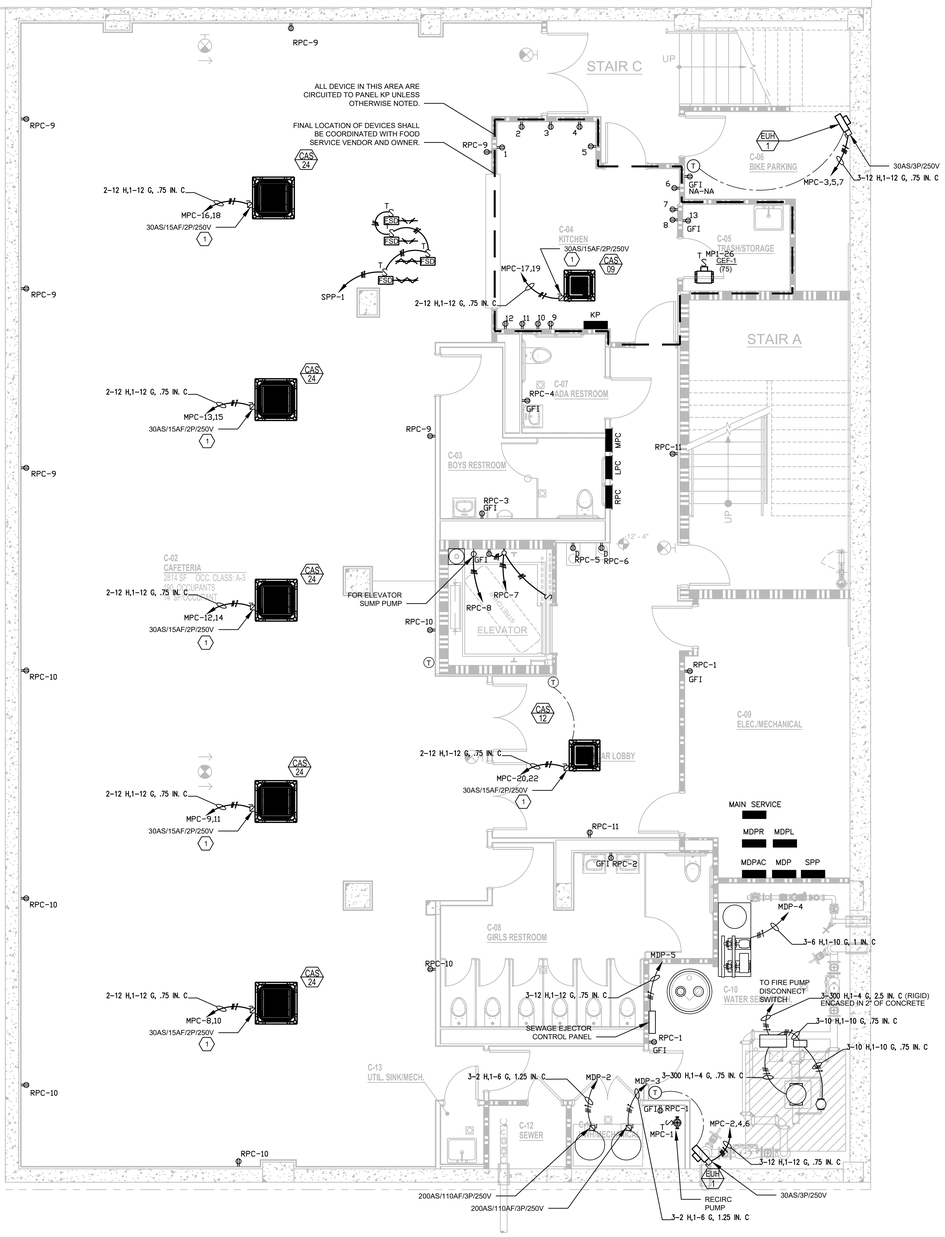
ADJACENT 1 STORY BUILDING

DETENTION TANK
SEE STRUCTURAL AND
PLUMBING DWGS

UNEXCAVATED, SEE S- DWGS
FOR FOUNDATIONS

ADJACENT 1 STORY
BUILDING

PROPERTY LINE

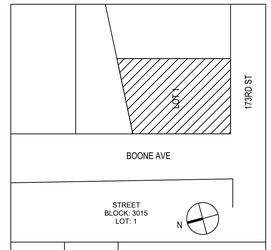


KEY NOTES

1	CONDENSATE PUMP WIRED THRU UNIT DISCONNECT SWITCH

CELLAR PLAN - ELECTRICAL

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



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DRAWING TITLE

CELLAR ELECTRICAL PLAN

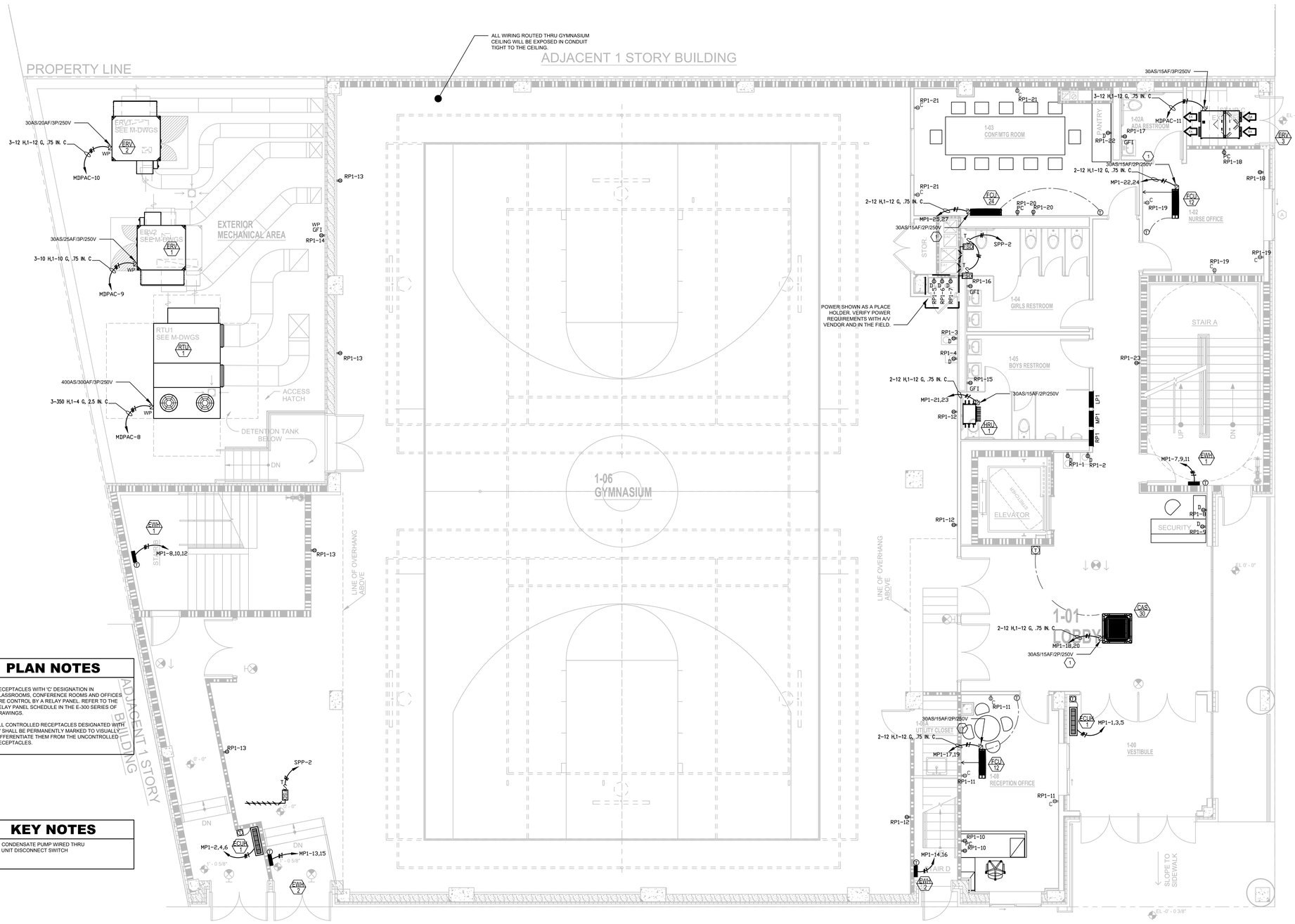
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PROJECT #: 19-0514
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PLAN NOTES

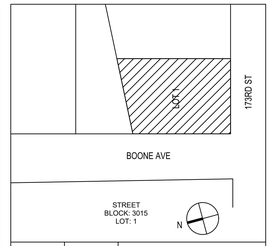
1. RECEPTACLES WITH 'C' DESIGNATION IN CLASSROOMS, CONFERENCE ROOMS AND OFFICES ARE CONTROL BY A RELAY PANEL. REFER TO THE RELAY PANEL SCHEDULE IN THE E-300 SERIES OF DRAWINGS.
2. ALL CONTROLLED RECEPTACLES DESIGNATED WITH 'C' SHALL BE PERMANENTLY MARKED TO VISUALLY DIFFERENTIATE THEM FROM THE UNCONTROLLED RECEPTACLES.

KEY NOTES

(1) CONDENSATE PUMP WIRED THRU UNIT DISCONNECT SWITCH

FIRST FLOOR PLAN - ELECTRICAL

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



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DRAWING TITLE

FIRST FLOOR ELECTRICAL PLAN

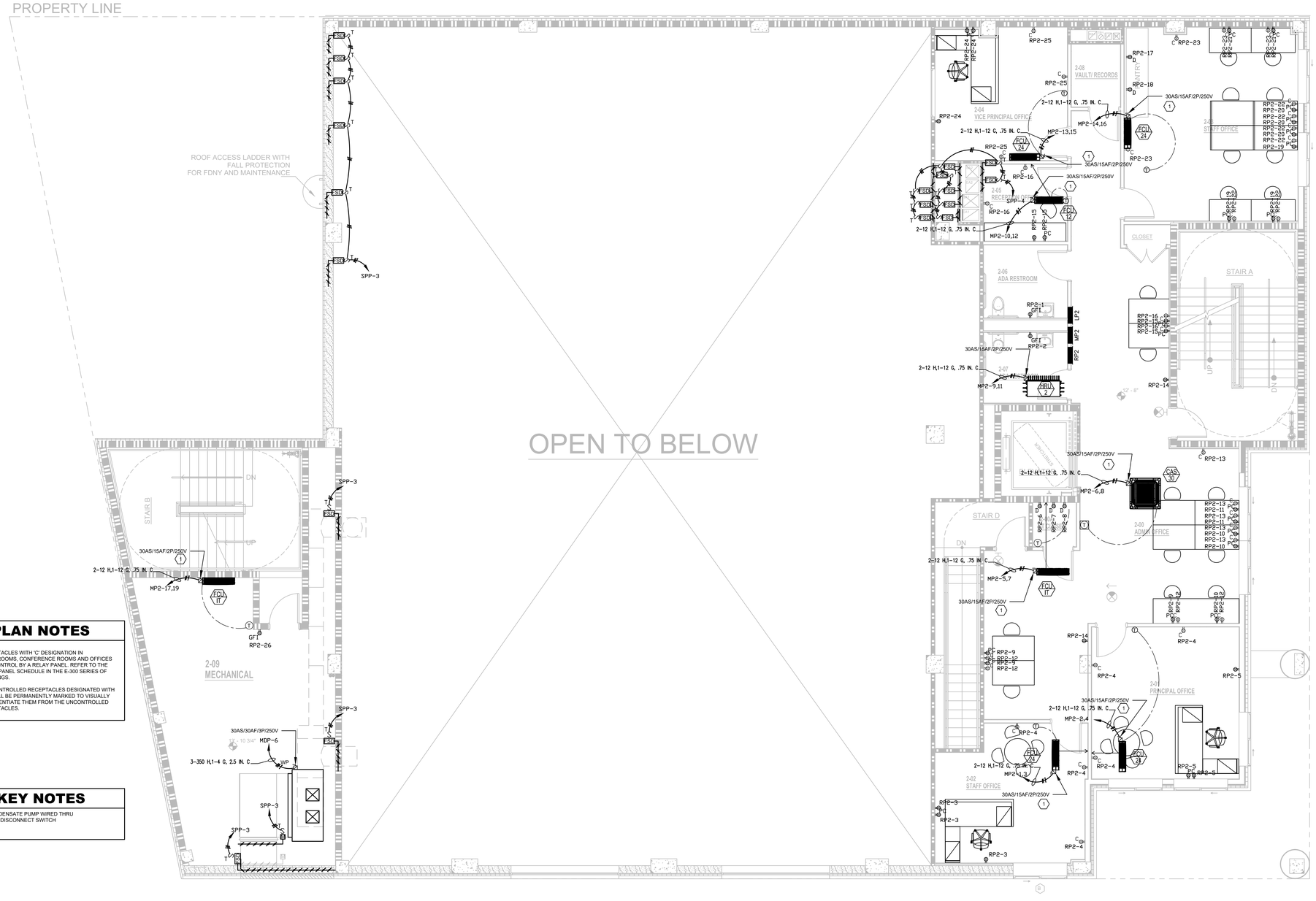
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PROJECT #: 19-0514
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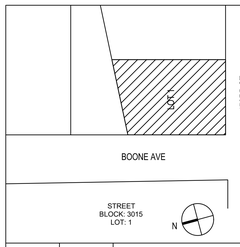
1. RECEPTACLES WITH 'C' DESIGNATION IN CLASSROOMS, CONFERENCE ROOMS AND OFFICES ARE CONTROLBY A RELAY PANEL. REFER TO THE RELAY PANEL SCHEDULE IN THE E-300 SERIES OF DRAWINGS.
2. ALL CONTROLLED RECEPTACLES DESIGNATED WITH 'C' SHALL BE PERMANENTLY MARKED TO VISUALLY DIFFERENTIATE THEM FROM THE UNCONTROLLED RECEPTACLES.

KEY NOTES

1 CONDENSATE PUMP WIRED THRU UNIT DISCONNECT SWITCH

SECOND FLOOR PLAN - ELECTRICAL

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



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

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DOB XXXXXX

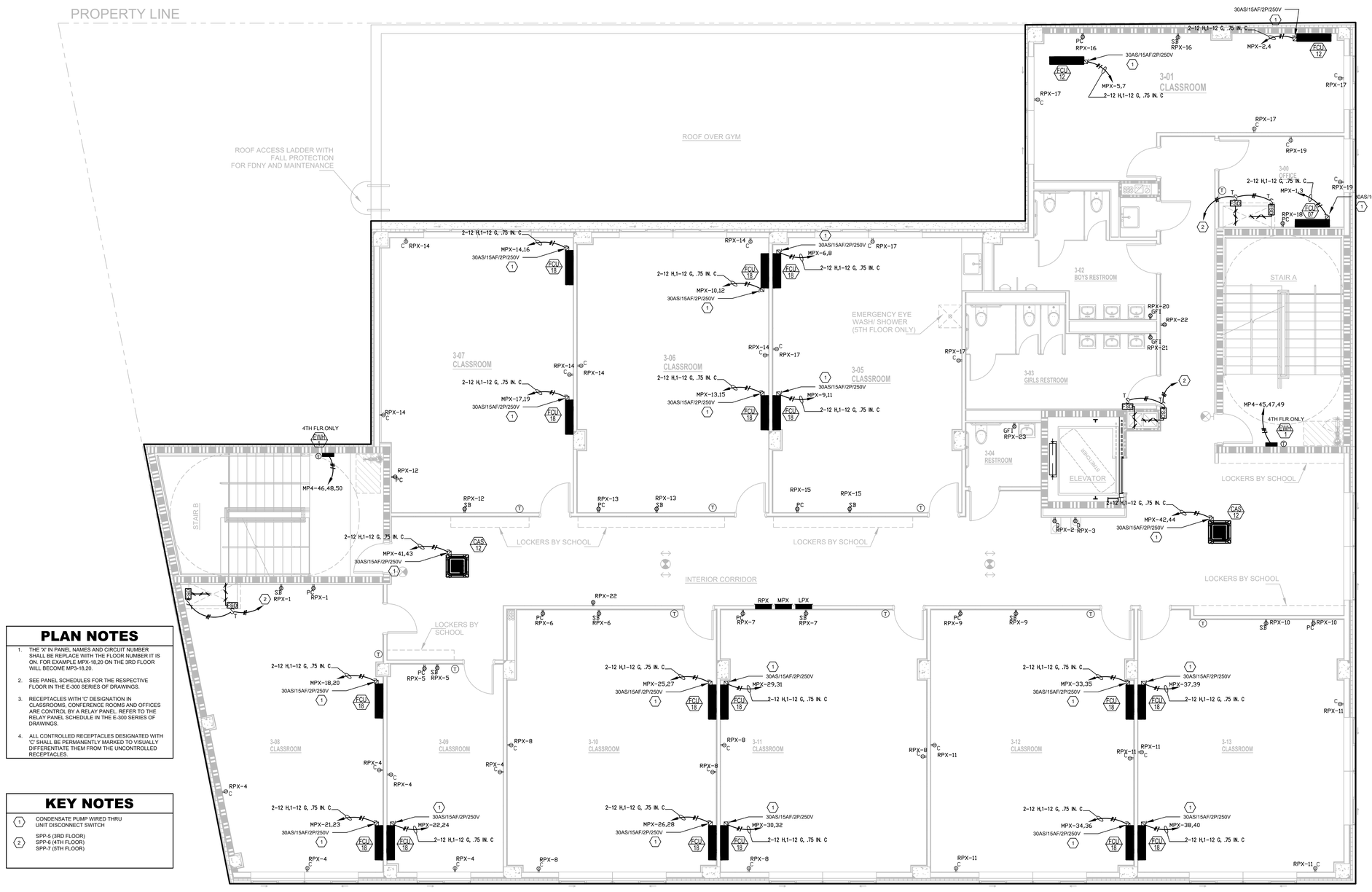
PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
SECOND FLOOR ELECTRICAL PLAN

Seal & Signature:

DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:
E-102.00
SHEET XX OF XX

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PLAN NOTES

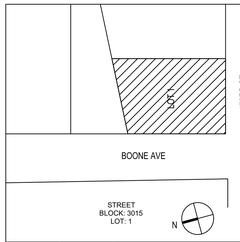
1. THE 'X' IN PANEL NAMES AND CIRCUIT NUMBER SHALL BE REPLACE WITH THE FLOOR NUMBER IT IS ON. FOR EXAMPLE MPX-18,20 ON THE 3RD FLOOR WILL BECOME MP3-18,20.
2. SEE PANEL SCHEDULES FOR THE RESPECTIVE FLOOR IN THE E-300 SERIES OF DRAWINGS.
3. RECEPTACLES WITH 'C' DESIGNATION IN CLASSROOMS, CONFERENCE ROOMS AND OFFICES ARE CONTROL BY A RELAY PANEL. REFER TO THE RELAY PANEL SCHEDULE IN THE E-300 SERIES OF DRAWINGS.
4. ALL CONTROLLED RECEPTACLES DESIGNATED WITH 'C' SHALL BE PERMANENTLY MARKED TO VISUALLY DIFFERENTIATE THEM FROM THE UNCONTROLLED RECEPTACLES.

KEY NOTES

1	CONDENSATE PUMP WIRED THRU UNIT DISCONNECT SWITCH
2	SPP-5 (3RD FLOOR) SPP-6 (4TH FLOOR) SPP-7 (5TH FLOOR)

THIRD THRU FIFTH FLOOR PLAN - ELECTRICAL

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



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DOB XXXXXX

PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

THIRD THRU FIFTH FLOOR ELECTRICAL PLAN

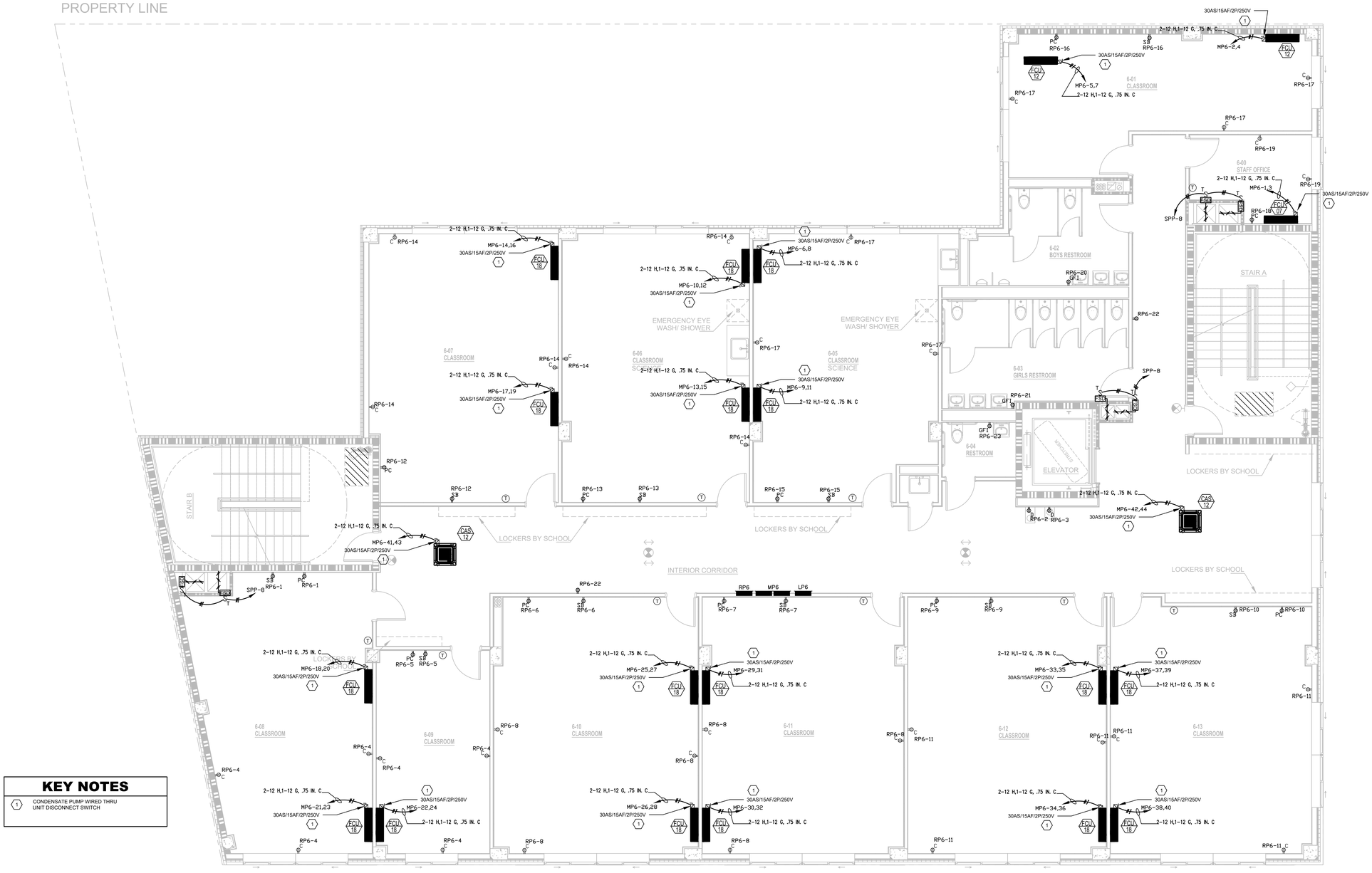
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DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:

E-103.00

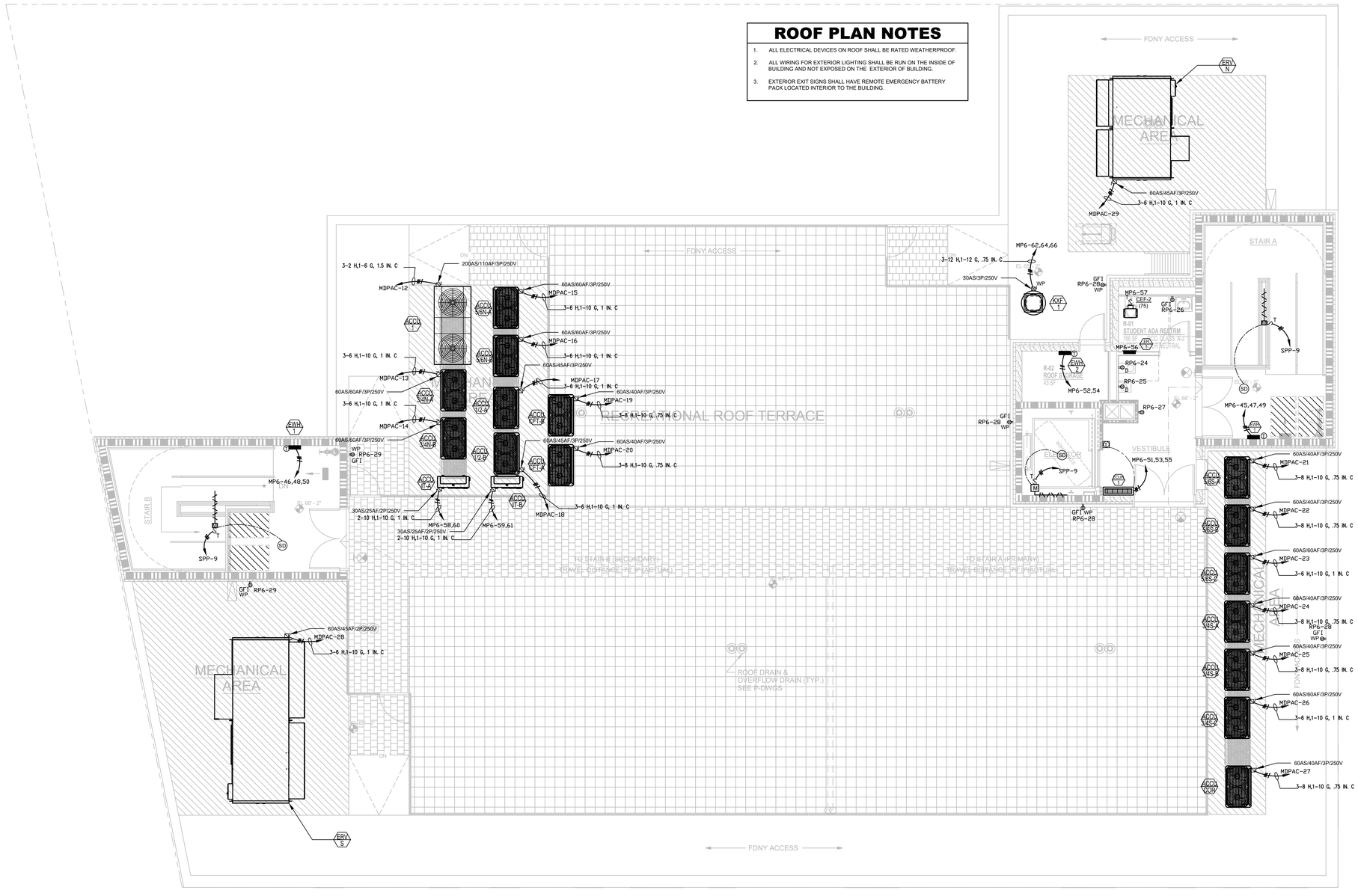
SHEET XX OF XX

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PROPERTY LINE
6-01 CLASSROOM
6-00 STAFF OFFICE
6-02 BOYS RESTROOM
6-03 GIRLS RESTROOM
6-04 RESTROOM
6-05 CLASSROOM SCIENCE
6-06 CLASSROOM SCIENCE
6-07 CLASSROOM
6-08 CLASSROOM
6-09 CLASSROOM
6-10 CLASSROOM
6-11 CLASSROOM
6-12 CLASSROOM
6-13 CLASSROOM
EMERGENCY EYE WASH/ SHOWER
EMERGENCY EYE WASH/ SHOWER
STAIR A
STAIR B
ELEVATOR
LOCKERS BY SCHOOL
LOCKERS BY SCHOOL
LOCKERS BY SCHOOL
LOCKERS BY SCHOOL
INTERIOR CORRIDOR
LOCKERS BY SCHOOL
30AS/15AF/2P/250V
2-12 H,1-12 G, .75 IN. C
MP6-1,3
MP6-2,4
MP6-5,7
MP6-6,8
MP6-9,11
MP6-10,12
MP6-13,15
MP6-14,16
MP6-17,19
MP6-18,20
MP6-21,23
MP6-22,24
MP6-25,27
MP6-26,28
MP6-29,31
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MP6-38,40
MP6-41,43
MP6-42,44
RP6-1
RP6-2
RP6-3
RP6-4
RP6-5
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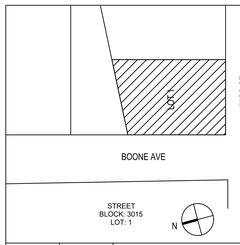
ROOF PLAN NOTES

1. ALL ELECTRICAL DEVICES ON ROOF SHALL BE RATED WEATHERPROOF.
2. ALL WIRING FOR EXTERIOR LIGHTING SHALL BE RUN ON THE INSIDE OF BUILDING AND NOT EXPOSED ON THE EXTERIOR OF BUILDING.
3. EXTERIOR EXIT SIGNS SHALL HAVE REMOTE EMERGENCY BATTERY PACK LOCATED INTERIOR TO THE BUILDING.



ROOF PLAN - ELECTRICAL

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



NO.	DATE	DESCRIPTION
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DOB XXXXXX

PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

ROOF ELECTRICAL PLAN

Seal & Signature:

DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:

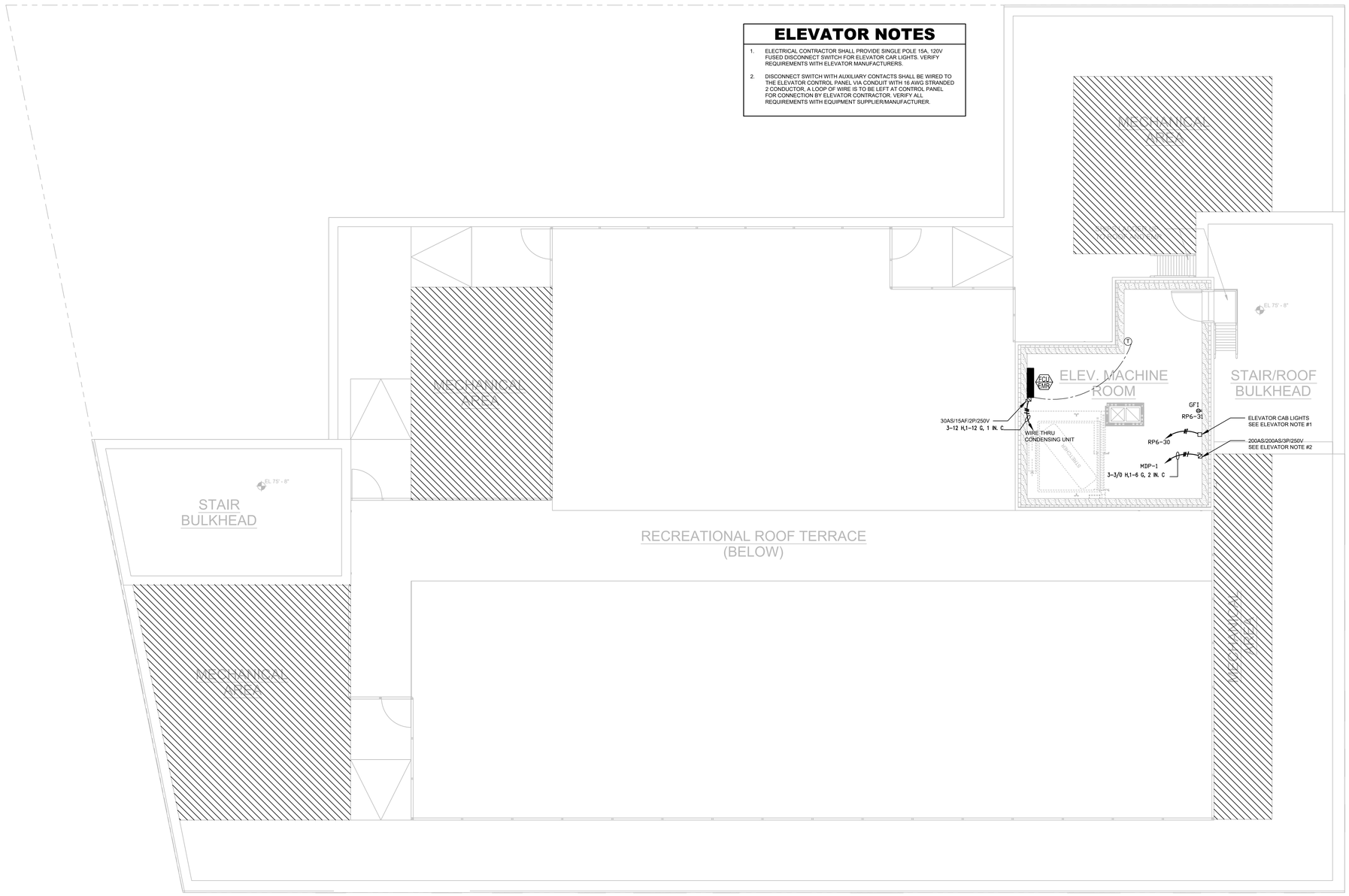
E-105.00

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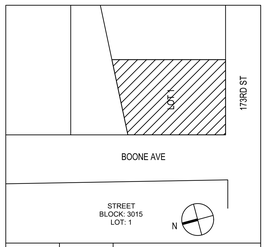
ELEVATOR NOTES

1. ELECTRICAL CONTRACTOR SHALL PROVIDE SINGLE POLE 15A, 120V FUSED DISCONNECT SWITCH FOR ELEVATOR CAR LIGHTS. VERIFY REQUIREMENTS WITH ELEVATOR MANUFACTURERS.
2. DISCONNECT SWITCH WITH AUXILIARY CONTACTS SHALL BE WIRED TO THE ELEVATOR CONTROL PANEL VIA CONDUIT WITH 16 AWG STRANDED 2 CONDUCTOR, A LOOP OF WIRE IS TO BE LEFT AT CONTROL PANEL FOR CONNECTION BY ELEVATOR CONTRACTOR. VERIFY ALL REQUIREMENTS WITH EQUIPMENT SUPPLIER/MANUFACTURER.



BULKHEAD PLAN - ELECTRICAL

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



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DOB XXXXXX

PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

BULKHEAD ELECTRICAL PLAN

Seal & Signature:

DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:

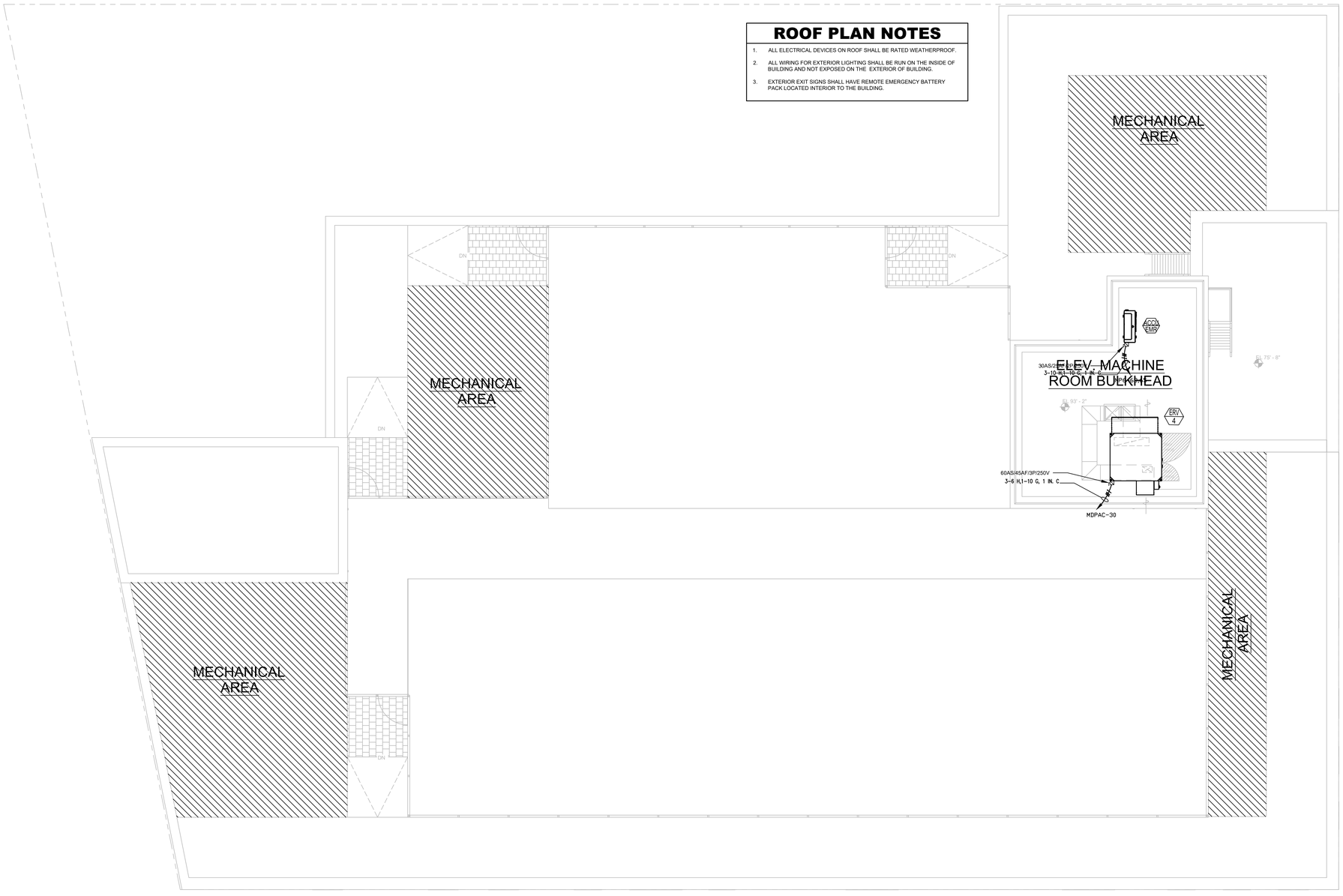
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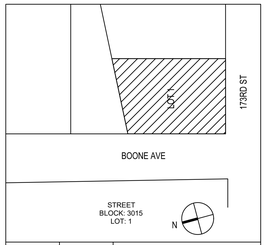
ROOF PLAN NOTES

1. ALL ELECTRICAL DEVICES ON ROOF SHALL BE RATED WEATHERPROOF.
2. ALL WIRING FOR EXTERIOR LIGHTING SHALL BE RUN ON THE INSIDE OF BUILDING AND NOT EXPOSED ON THE EXTERIOR OF BUILDING.
3. EXTERIOR EXIT SIGNS SHALL HAVE REMOTE EMERGENCY BATTERY PACK LOCATED INTERIOR TO THE BUILDING.



ELEVATOR OVERRUN BULKHEAD ROOF PLAN - ELECTRICAL

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



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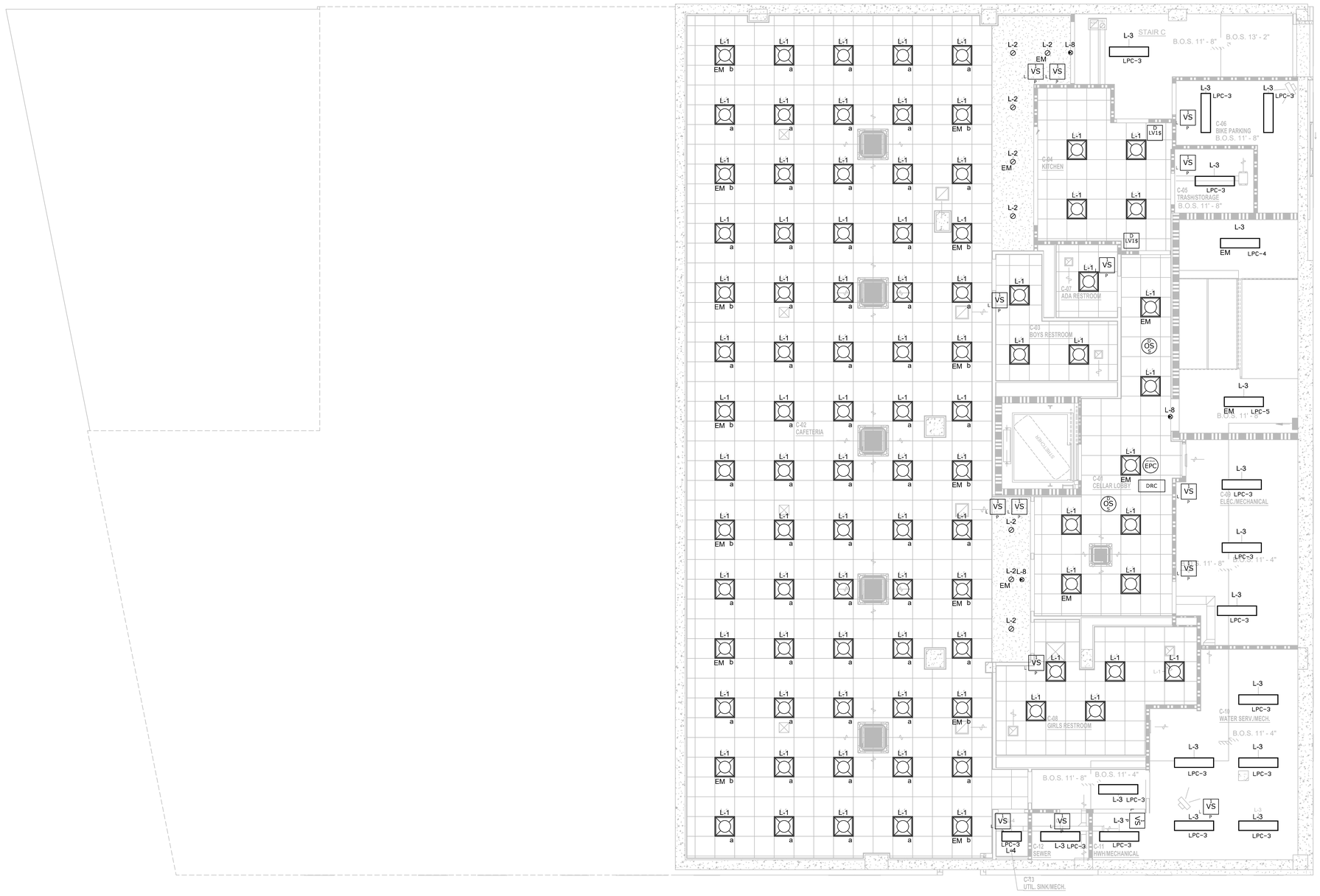
PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
ELEVATOR OVERRUN BULKHEAD ROOF ELECTRICAL PLAN

Seal & Signature:

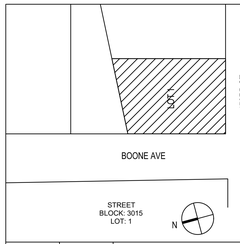
DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:
E-107.00
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CELLAR PLAN - LIGHTING

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



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DOB XXXXXX

PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

CELLAR LIGHTING PLAN

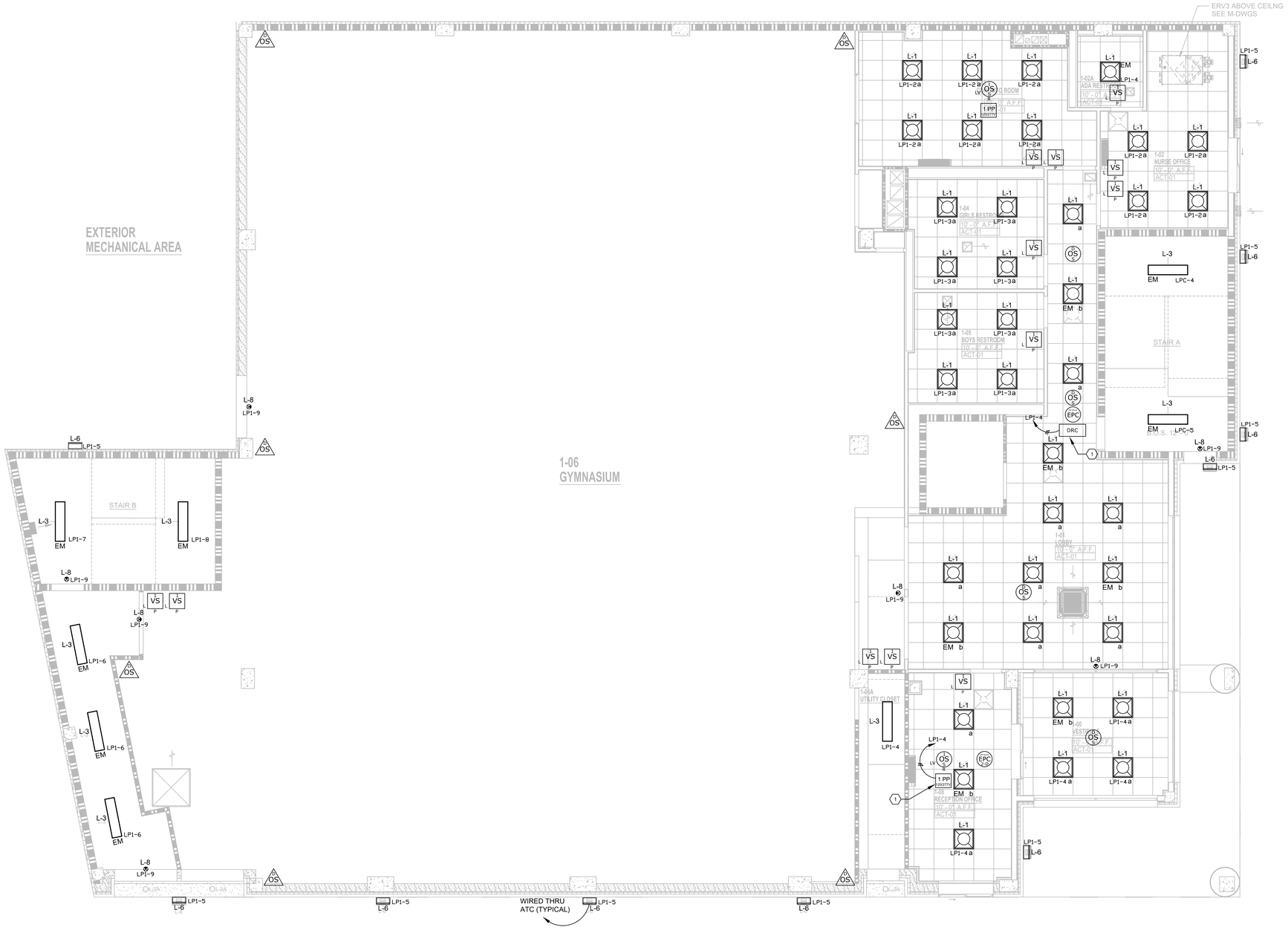
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DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:

E-150.00

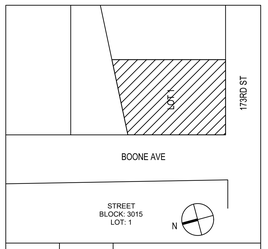
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FIRST FLOOR PLAN - LIGHTING

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



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PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

FIRST FLOOR LIGHTING PLAN

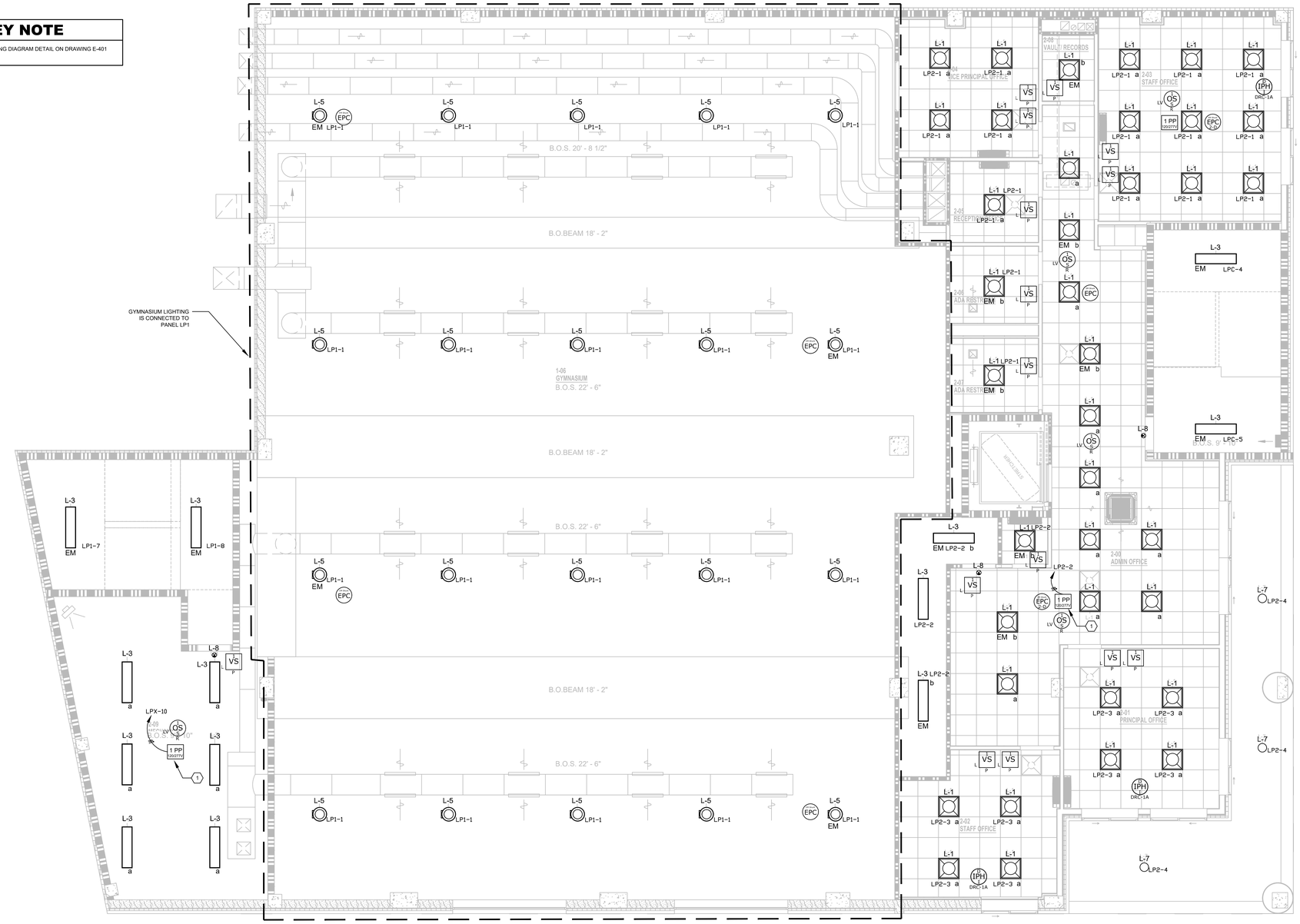
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DATE:	06/06/19
PROJECT #:	19-0514
DWG SCALE:	AS SHOWN
DRAWING NO.:	E-151.00
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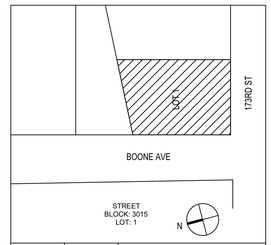
KEY NOTE

1 REFER TO WIRING DIAGRAM DETAIL ON DRAWING E-401



SECOND FLOOR PLAN - LIGHTING

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



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DOB XXXXXX

PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

SECOND FLOOR LIGHTING PLAN

Seal & Signature:

DATE:	06/06/19
PROJECT #:	19-0514
DWG SCALE:	AS SHOWN
DRAWING NO.:	

E-152.00

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KEY NOTE

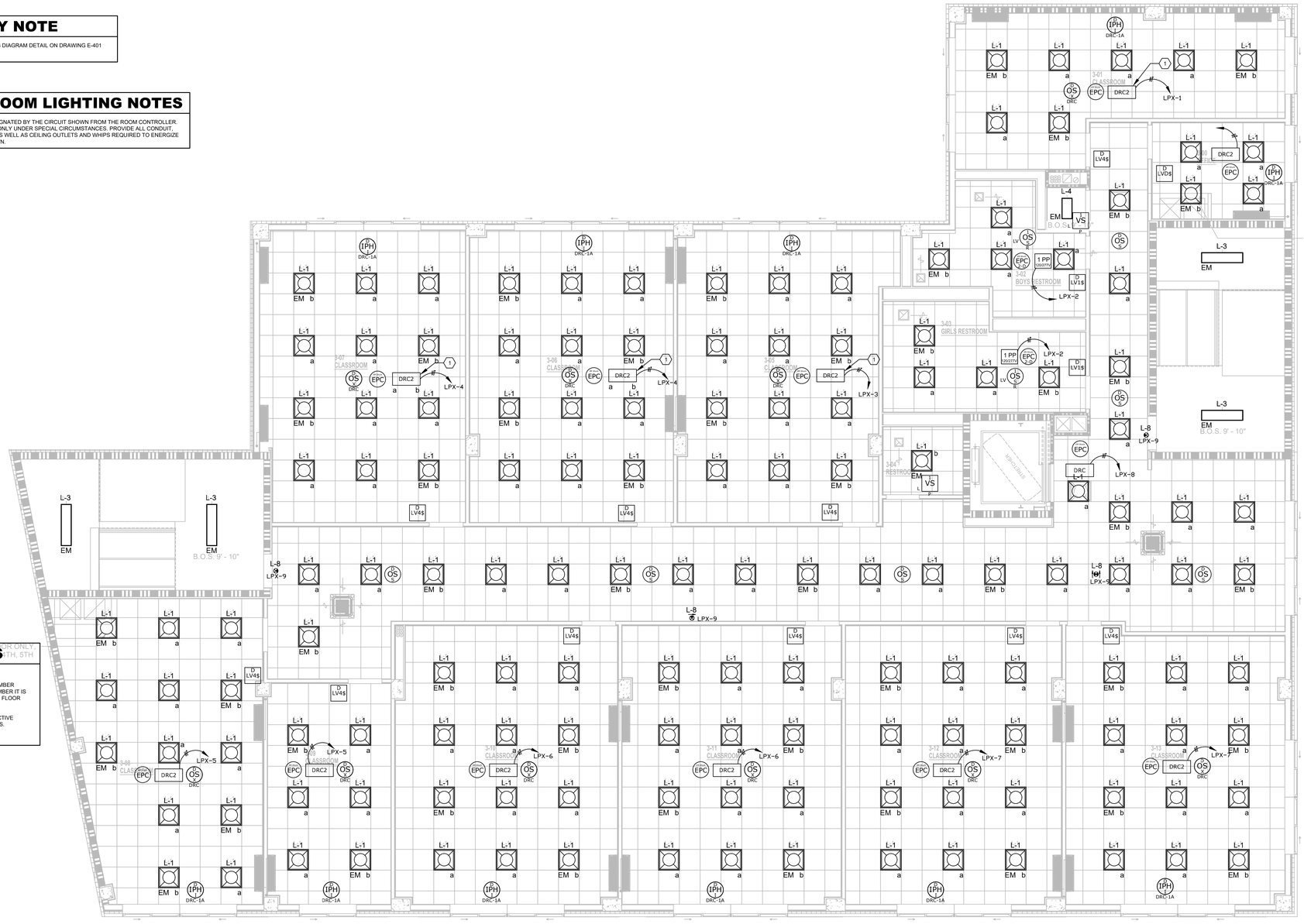
(1) REFER TO WIRING DIAGRAM DETAIL ON DRAWING E-401

CLASS ROOM LIGHTING NOTES

1. CIRCUITS ARE DESIGNATED BY THE CIRCUIT SHOWN FROM THE ROOM CONTROLLER. WIRING IS SHOWN ONLY UNDER SPECIAL CIRCUMSTANCES. PROVIDE ALL CONDUIT, WIRE AND BOXES AS WELL AS CEILING OUTLETS AND WHIPS REQUIRED TO ENERGIZE FIXTURES AS SHOWN.

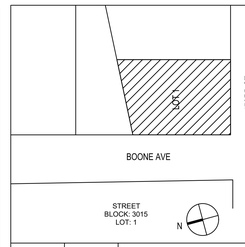
PLAN NOTES

1. THE 'X' IN PANEL NAMES AND CIRCUIT NUMBER SHALL BE REPLACE WITH THE FLOOR NUMBER IT IS ON. FOR EXAMPLE MPX-18,20 ON THE 3RD FLOOR WILL BECOME MP3-18,20.
2. SEE PANEL SCHEDULES FOR THE RESPECTIVE FLOOR IN THE E-300 SERIES OF DRAWINGS.



THIRD THRU FIFTH FLOOR PLAN - LIGHTING

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



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DOB XXXXXX

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
THIRD THRU FIFTH FLOOR LIGHTING PLAN

Seal & Signature:

DATE:	06/06/19
PROJECT #:	19-0514
DWG SCALE:	AS SHOWN

DRAWING NO.:
E-153.00
SHEET XX OF XX

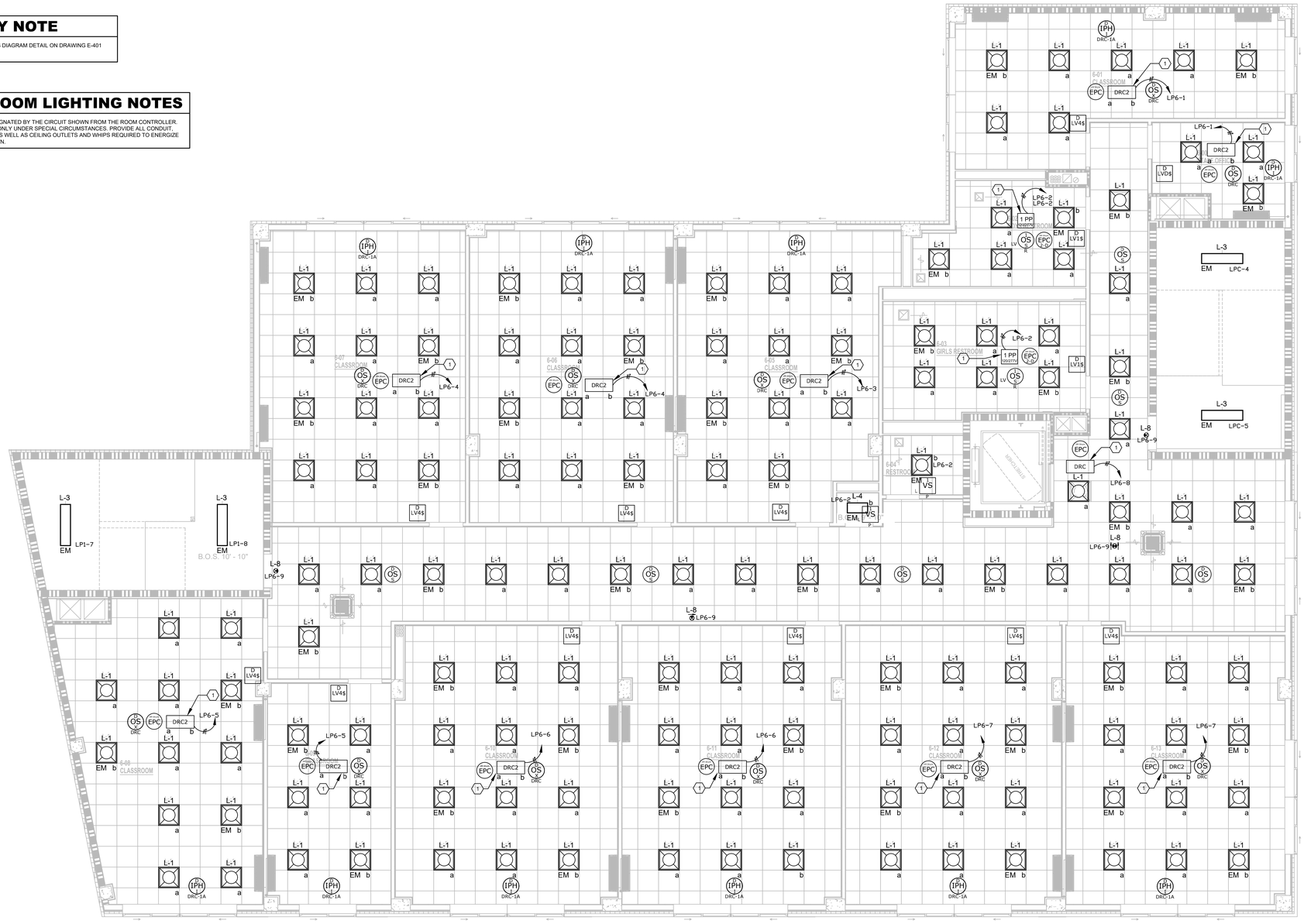
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KEY NOTE

(1) REFER TO WIRING DIAGRAM DETAIL ON DRAWING E-401

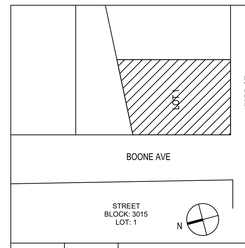
CLASS ROOM LIGHTING NOTES

1. CIRCUITS ARE DESIGNATED BY THE CIRCUIT SHOWN FROM THE ROOM CONTROLLER. WIRING IS SHOWN ONLY UNDER SPECIAL CIRCUMSTANCES. PROVIDE ALL CONDUIT, WIRE AND BOXES AS WELL AS CEILING OUTLETS AND WHIPS REQUIRED TO ENERGIZE FIXTURES AS SHOWN.



SIXTH FLOOR PLAN - LIGHTING

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



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

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DOB XXXXXX

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

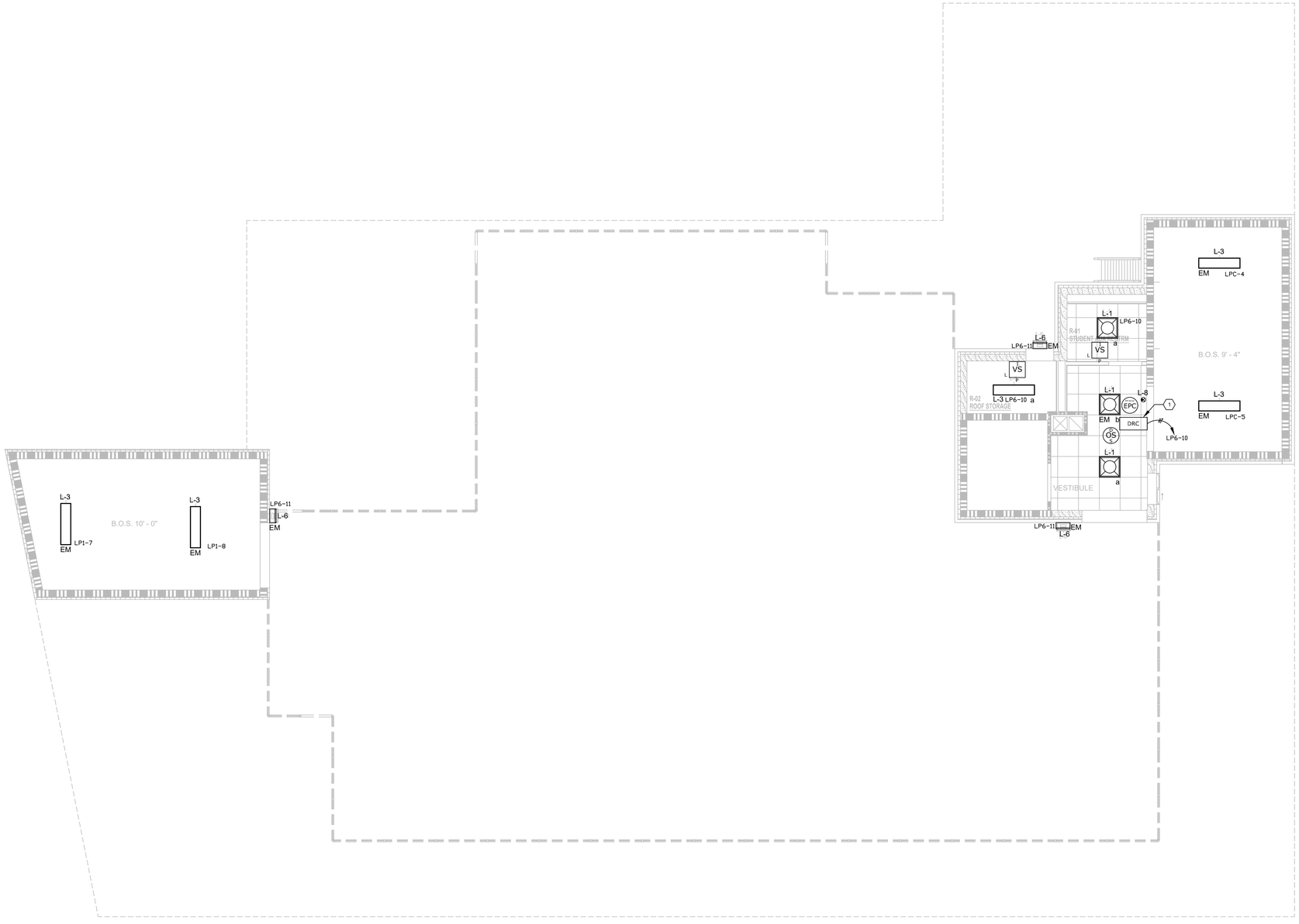
DRAWING TITLE
SIXTH FLOOR LIGHTING PLAN

Seal & Signature:

DATE:	06/06/19
PROJECT #:	19-0514
DWG SCALE:	AS SHOWN

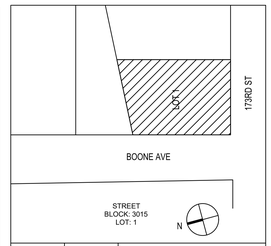
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E-154.00
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ROOF PLAN - LIGHTING

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



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

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DOB XXXXXX

PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

ROOF LIGHTING PLAN

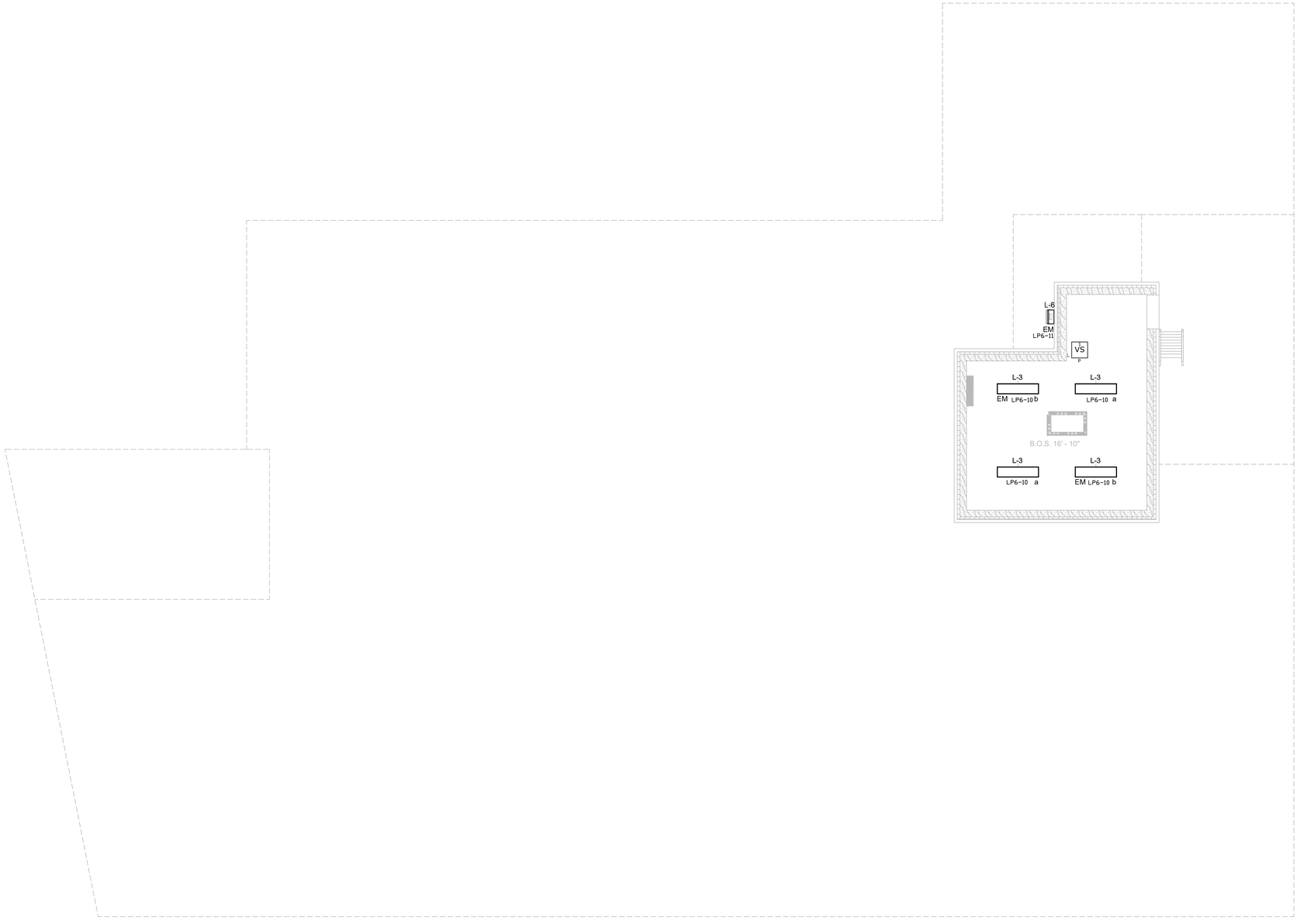
Seal & Signature:

DATE:	06/06/19
PROJECT #:	19-0514
DWG SCALE:	AS SHOWN
DRAWING NO.:	

E-155.00

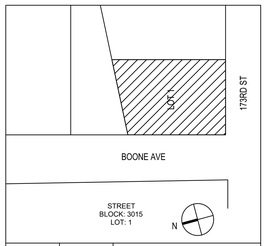
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ELEVATOR OVERRUN BULKHEAD PLAN - LIGHTING

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



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

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DOB XXXXXX

PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

ELEVATOR OVERRUN BULKHEAD LIGHTING PLAN

Seal & Signature:

DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:

E-156.00

SHEET XX OF XX

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RISER NOTES

1. ALL WIRING BETWEEN MAIN SWITCH, FIRE PUMP CONTROL PANEL AND FIRE PUMP TO BE IN RIGID GALVANIZED STEEL (RGS) CONDUIT. ALL CONDUIT, JUNCTION BOXES, DISCONNECT SWITCH AND DEVICES FOR SPRINKLER ALARM SYSTEM TO BE PAINTED FIRE DEPARTMENT RED AND LABELED FOR FIRE DEPARTMENT USE.
2. ELECTRIC SERVICE PENDING CON EDISON APPROVAL, VERIFY ALL REQUIREMENTS WITH CON EDISON.

CONTRACTOR NOTES

1. ELECTRICAL CONTRACTOR SHALL FILE WITH ALL CITY AGENCIES INCLUDING NEW YROK CITY BUREAU OF ELECTRICAL CONTROL, ADVISORY BOARD, AND CONSOLIDATED EDISON, AND OBTAIN ALL APPROVALS FOR THE WORK UNDER THIS CONTRACT.
2. THE ELECTRICAL CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH THE FILINGS.
3. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE ADVISORY BOARD FILING DRAWINGS.
4. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF OVERCURRENT PROTECTIVE DEVICES AND DOCUMENTATION DEMONSTRATING HOW SELECTIVE COORDINATION WAS ACHIEVED.

ELECTRIC SWITCHBOARD NOTES

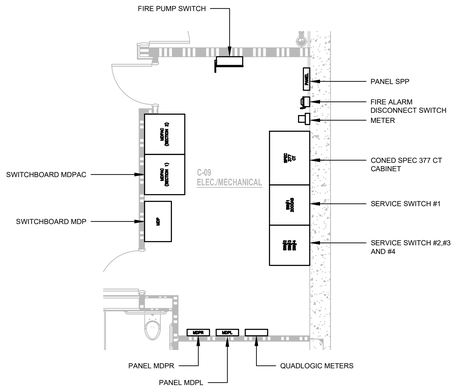
1. SERVICE 120/208 V A.C. 3 PHASE 4 WIRE 60 Hz.
2. FABRICATE SWITCHBOARD STRUCTURE FROM UNIVERSAL STEEL CHANNEL FRAME WITH CODE GAUGE SHEET STEEL COVERS.
3. BOXES & TRIMS CODE GAUGE SHEET STEEL.
4. SERVICE OR DISTRIBUTION SWITCHES 800A & ABOVE BOLTED PRESSURE CONTACT TYPE AS MANUFACTURED BY BOLTSWITCH COMPANY OR APPROVED EQUAL. BELOW 800 A PRESSURE CONTACT TYPE VACU-BREAK AS MANUFACTURED BY ITE.
5. NO DOOR OVER VACU-BREAK PANEL. EACH SWITCH HAS ITS OWN INDIVIDUAL INTERLOCKED DOOR.
6. ALL FUSES SHALL BE COORDINATED FOR PROPER SHORT CIRCUIT & OVERLOAD PROTECTION.
7. FUSES ARE GOULD/SHAWMUT TYPE OR APPROVED EQUAL.
8. BUSWORK COPPER RATED AT 1000 AMPS PER SQ. INCH DENSITY.
9. LUGS T & B (OR EQUAL) MECHANICAL TYPE SUITABLE FOR COPPER CABLES.
10. ALL LIVE PARTS MIN. 12" OFF THE FINISHED FLOOR.
11. ALL SERVICE & DISTRIBUTION EQUIPMENT FRONT ACCESSIBLE. NO BUS CONNECTION MORE THAN 30" FROM FRONT OF EQUIPMENT WITH COVERS REMOVED.
12. C.T. TRIM SHALL HAVE A SPLIT DOOR & 3 POINT CATCH WITH VAULT TYPE HANDLE WITH PROVISION FOR A SEAL.
13. FINISH ONE (1) PRIME COAT OF GREY PRIMER & ONE (1) FINISH COAT OF ASA-49 GREY ENAMEL.
14. ALL SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES TO BE BY ALL CITY SWITCHBOARD. CONTACT JAMES TANIS (718) 956-7244.

SUBMETER NOTES

1. SUBMETERING SHALL BE BY QUADLOGIC. CONTACT JOHN ANDERSON AT QUADLOGIC, (917)543-7924.
2. ELECTRICAL ENERGY MONITORING SHALL BE PROVIDED AS PER ASHRAE 90.1 WITH NYC AMENDMENTS. THE FOLLOWING SERVICE SWITCHES SHALL BE MONITORED:
   A) SW#1 (HVAC)
   B) SW#3 (RECEPTACLES)
   C) SW#4 (LIGHTING)
3. PROVIDE A QUADLOGIC REMOTE COMMUNICATION SYSTEM AND INTERNET CONNECTION.

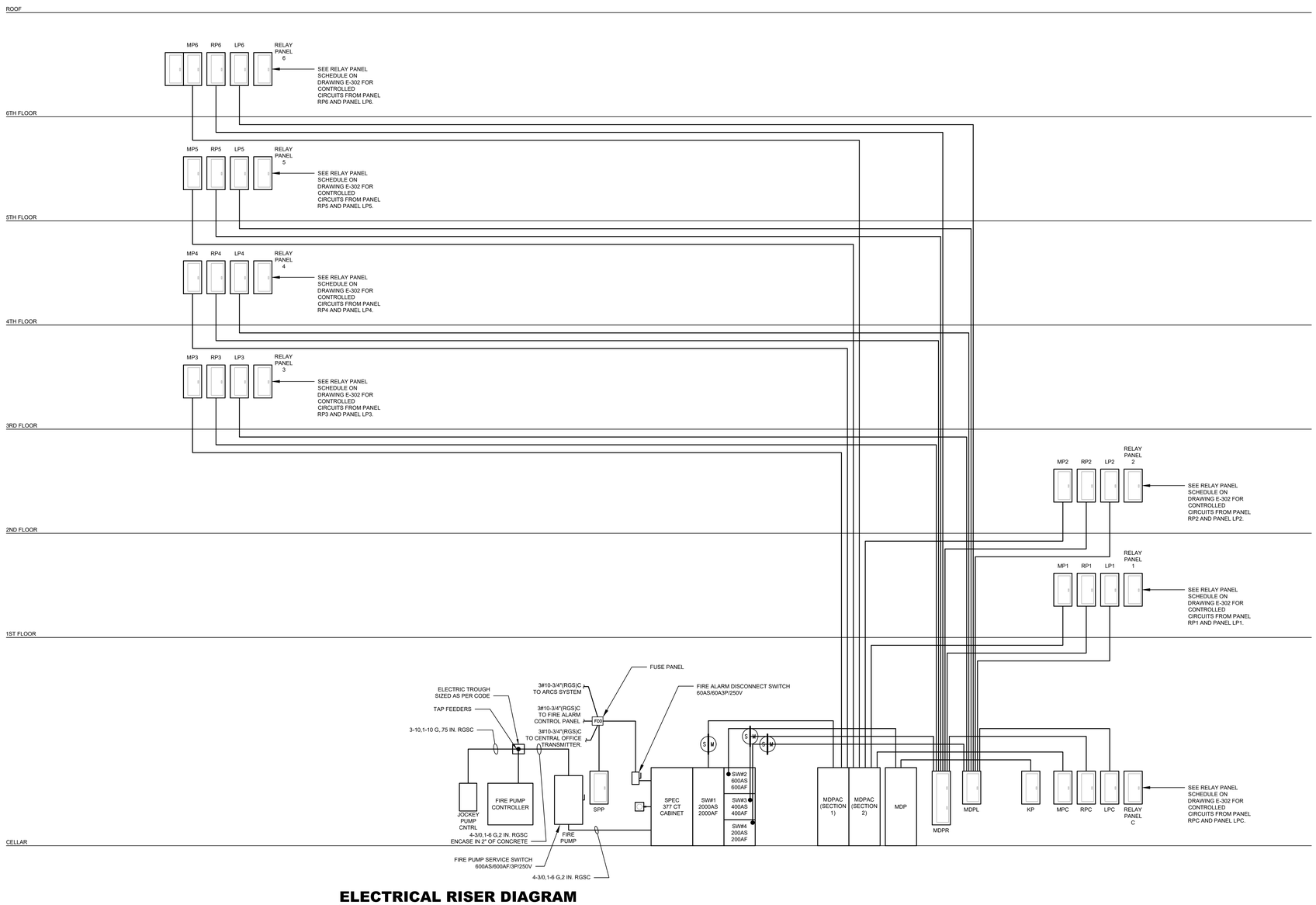
LEGEND

(S M) SUBMETER LOAD



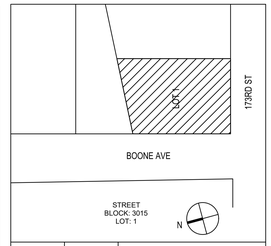
ELECTRIC ROOM LAYOUT

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



ELECTRICAL RISER DIAGRAM

SCHEMATIC ONLY



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

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DOB XXXXXX

PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

ELECTRIC RISER DIAGRAM

Seal & Signature:

DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:

E-200.00

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SWITCHBOARD MDPAC

120/208 VOLTS — 3 ϕ 4 W — 1600 A AMP MLO — 1600 A AMP BUS — 10000 A.I.C. RATING — FLOOR MOUNTED

CKT NO.	TRIP/ POLES	DESCRIPTION	DEMAND LOAD VA	WIRE SIZE
1	100/3	PANEL MPC	6763	<Undefined>
2	100/3	PANEL MP1	20438	<Undefined>
3	100/3	PANEL MP2	900	<Undefined>
4	100/3	PANEL MP3	2200	<Undefined>
5	100/3	PANEL MP4	10192	<Undefined>
6	100/3	PANEL MP5	2200	<Undefined>
7	100/3	PANEL MP6	30649	<Undefined>
8	300/3	RTU-1	95040	3x350;-;1x4;-
9	25/3	ERV-1	7596	3x10;-;1x10;-
10	20/3	ERV-2	5328	3x12;-;1x12;-
11	15/3	ERV-3	3639	3x12;-;1x12;-
12	110/3	ACCU-1	30960	3x2;-;1x6;-
13	60/3	ACCU-3/4N-A	18000	3x6;-;1x10;-
14	60/3	ACCU-3/4N-B	18000	3x6;-;1x10;-
15	60/3	ACCU-5/6N-A	18000	3x6;-;1x10;-
16	60/3	ACCU-5/6N-B	18000	3x6;-;1x10;-
17	45/3	ACCU-1/2-A	13320	3x6;-;1x10;-
18	45/3	ACCU-1/2-B	13320	3x6;-;1x10;-
19	40/3	ACCU-CFT-B	13320	3x8;-;1x10;-
20	40/3	ACCU-CFT-A	13320	3x8;-;1x10;-
21	40/3	ACCU-5/6S-A	13320	3x8;-;1x10;-
22	40/3	ACCU-5/6S-B	13320	3x8;-;1x10;-
23	60/3	ACCU-5/6S-C	18000	3x6;-;1x10;-
24	40/3	ACCU-3/4S-A	13320	3x8;-;1x10;-
25	40/3	ACCU-3/4S-B	13320	3x8;-;1x10;-
26	60/3	ACCU-3/4S-C	18000	3x6;-;1x10;-
27	40/3	ACCU-COR	13320	3x8;-;1x10;-
28	45/3	ERV-S	11736	3x6;-;1x10;-
29	45/3	ERV-N	11736	3x6;-;1x10;-
30	45/3	ERV-4	11736	3x6;-;1x10;-

Load Category	Connected Load (KVA) x	Demand Factor =	Demand Load (KVA)
Motors	0.1	1.00	0.1
Motors (Largest)	1.3	1.25	1.6
Equipment	477.4	1.00	477.4

TOTAL CONN. LOAD: 478.7 KVA
TOTAL DEMAND LOAD: 479.0 KVA
TOTAL DEMAND LOAD: 1329.6 AMPS
SPARE CAPACITY: 270.4 AMPS

PANEL MPC

VOLTAGE (L-N): 120 — ENCLOSURE TYPE: ----
VOLTAGE (L-L): 208 — MOUNTING: RECESSED
PHASES, WIRES: 3 ϕ 4 W — AIC RATING (A): 10000
MINIMUM BUS CAPACITY (A): 100 A — NOTES: ----
MAIN O.C. DEVICE (A): MLO

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A	B	C	POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	HW CIRCULATOR PUMP	20	1	50	1000		3	20	EUH-1 SPRKLR RM	2,4,6
3,5,7	EUH-1 BIKE RM	20	3		1000	1000				
3,5,7	EUH-1 BIKE RM	20	3			1000	1000	3	20	EUH-1 SPRKLR RM	2,4,6
3,5,7	EUH-1 BIKE RM	20	3	1000	50		2	15	CAS-24	8,10
9,11	CAS-24	15	2		50	50	2	15	CAS-24	8,10
9,11	CAS-24	15	2			50	50	2	15	CAS-24	12,14
13,15	CAS-24	15	2	50	50		2	15	CAS-24	12,14
13,15	CAS-24	15	2		50	50	2	15	CAS-24	16,18
17,19	CAS-09	15	2			50	50	2	15	CAS-24	16,18
17,19	CAS-09	15	2	50	50		2	15	CAS-12	20,22
----	----	----	----		----	50	2	15	CAS-12	20,22
23	SPARE	20	1			0	1	20	SPARE	24
25	SPARE	20	1	0	0		1	20	SPARE	26
27	SPARE	20	1		0	0	1	20	SPARE	28
29	SPARE	20	1			0	0	1	20	SPARE	30
31	SPARE	20	1	0	0		1	20	SPARE	32
33	SPARE	20	1		0	0	1	20	SPARE	34
35	SPARE	20	1			0	0	1	20	SPARE	36
37	SPARE	20	1	0	0		1	20	SPARE	38
39	SPARE	20	1		0	0	1	20	SPARE	40
41	SPARE	20	1			0	1	20	SPARE	42
43	SPARE	20	1	0						
				CONNECTED LOAD PHASE TOTALS (VA)						
				2300	2250	2200				

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Motors	0.0	1.00	0.0
Motors (Largest)	0.1	1.25	0.1
Equipment	6.7	1.00	6.7
TOTAL:	6.8		6.8
LOAD (AMPS):	18.7		18.8

DEMAND LOAD 6.8 KVA
SPARE CAPACITY 29.3 KVA
SPARE CAPACITY 81.2 AMPS
SPARE CAPACITY 81%
PHASE BALANCE
A TO B 98%
B TO C 98%
C TO A 96%

PANEL MP1

VOLTAGE (L-N): 120 — ENCLOSURE TYPE: ----
VOLTAGE (L-L): 208 — MOUNTING: RECESSED
PHASES, WIRES: 3 ϕ 4 W — AIC RATING (A): 10000
MINIMUM BUS CAPACITY (A): 100 A — NOTES: ----
MAIN O.C. DEVICE (A): MLO

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A	B	C	POLE	TRIP AMPS	DESCRIPTION	CKT NO
1,3,5	ECUH-1 VESTIBULE	20	3	1608	1608		3	20	ECUH-1 GYM	2,4,6
1,3,5	ECUH-1 VESTIBULE	20	3		1608	1608				
1,3,5	ECUH-1 VESTIBULE	20	3			1608	1608	3	20	ECUH-1 GYM	2,4,6
7,9,11	EWH-1 STAIR-A	20	3	1332	1332		3	20	EWH-1 STAIR-B	8,10,12
7,9,11	EWH-1 STAIR-A	20	3		1332	1332				
7,9,11	EWH-1 STAIR-A	20	3			1332	1332	3	20	EWH-1 STAIR-B	8,10,12
13,15	EWH-2 GYM	20	2	562	562		2	20	EWH-2 STAIR-D	14,16
13,15	EWH-2 GYM	20	2		562	562				
17,19	FCU-12 RECPTN OFFICE	20	2			50	50	2	20	CAS-30 LOBBY	18,20
17,19	FCU-12 RECPTN OFFICE	20	2	50	50		2	20	CAS-30 LOBBY	18,20
21,23	HRU-1	20	2		50	50	2	20	FCU-12 NURSE OFFICE	22,24
21,23	HRU-1	20	2			50	50	2	20	FCU-12 NURSE OFFICE	22,24
25,27	FCU-24 CONF RM	20	2	50	50		1	20	TRASH ROOM FAN	26
25,27	FCU-24 CONF RM	20	2		50	0	1	20	SPARE	28
29	SPARE	20	1			0	1	20	SPARE	30
31	SPARE	20	1	0	0		1	20	SPARE	32
33	SPARE	20	1		0	0	1	20	SPARE	34
35	SPARE	20	1			0	0	1	20	SPARE	36
37	SPARE	20	1	0	0		1	20	SPARE	38
39	SPARE	20	1		0	0	1	20	SPARE	40
41	SPARE	20	1			0	0	1	20	SPARE	42
				CONNECTED LOAD PHASE TOTALS (VA)						
				7204	7154	6080				

Equipment	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
	20.4	1.00	20.4
TOTAL:	20.4		20.4
LOAD (AMPS):	56.7		56.7

DEMAND LOAD 20.4 KVA
SPARE CAPACITY 15.6 KVA
SPARE CAPACITY 43.3 AMPS
SPARE CAPACITY 43%
PHASE BALANCE
A TO B 99%
B TO C 85%
C TO A 84%

PANEL MP2

VOLTAGE (L-N): 120 — ENCLOSURE TYPE: ----
VOLTAGE (L-L): 208 — MOUNTING: RECESSED
PHASES, WIRES: 3 ϕ 4 W — AIC RATING (A): 10000
MINIMUM BUS CAPACITY (A): 100 A — NOTES: ----
MAIN O.C. DEVICE (A): MLO

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A	B	C	POLE	TRIP AMPS	DESCRIPTION	CKT NO
1,3	FCU-24 STAFF OFFICE	20	2	50	50		2	20	FCU-24 PRINCIPAL	2,4
1,3	FCU-24 STAFF OFFICE	20	2		50	50	2	20	FCU-24 PRINCIPAL	2,4
5,7	FCU-IT IT CLOSET	20	2			50	50	2	20	CAS-30 ADMIN OFF	6,8
5,7	FCU-IT IT CLOSET	20	2	50	50		2	20	CAS-30 ADMIN OFF	6,8
9,11	HRU ADMIN OFF	20	2		50	50	2	20	FCU-12 RECEPTION	10,12
9,11	HRU ADMIN OFF	20	2			50	50	2	20	FCU-12 RECEPTION	10,12
13,15	FCU-24 VICE PRCPL OFF	20	2	50	50		2	20	FCU-24 STAFF OFF	14,16
13,15	FCU-24 VICE PRCPL OFF	20	2		50	50	2	20	FCU-24 STAFF OFF	14,16
17,19	FCU-IT MECHANICAL RM	20	2			50	0	1	20	SPARE	18
17,19	FCU-IT MECHANICAL RM	20	2	50	0		1	20	SPARE	20
21	SPARE	20	1		0	0	1	20	SPARE	22
23	SPARE	20	1			0	0	1	20	SPARE	24
25	SPARE	20	1	0	0		1	20	SPARE	26
27	SPARE	20	1		0	0	1	20	SPARE	28
29	SPARE	20	1			0	0	1	20	SPARE	30
31	SPARE	20	1	0	0		1	20	SPARE	32
33	SPARE	20	1		0	0	1	20	SPARE	34
35	SPARE	20	1			0	0	1	20	SPARE	36
37	SPARE	20	1	0	0		1	20	SPARE	38
39	SPARE	20	1		0	0	1	20	SPARE	40
41	SPARE	20	1			0	0	1	20	SPARE	42
				CONNECTED LOAD PHASE TOTALS (VA)						
				350	300	250				

Equipment	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
	0.9	1.00	0.9
TOTAL:	0.9		0.9
LOAD (AMPS):	2.5		2.5

DEMAND LOAD 0.9 KVA
SPARE CAPACITY 35.1 KVA
SPARE CAPACITY 97.5 AMPS
SPARE CAPACITY 98%
PHASE BALANCE
A TO B 86%
B TO C 83%
C TO A 71%

PANEL MP3

VOLTAGE (L-N): 120 — ENCLOSURE TYPE: ----
VOLTAGE (L-L): 208 — MOUNTING: RECESSED
PHASES, WIRES: 3 ϕ 4 W — AIC RATING (A): 10000
MINIMUM BUS CAPACITY (A): 100 A — NOTES: ----
MAIN O.C. DEVICE (A): MLO

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A	B	C	POLE	TRIP AMPS	DESCRIPTION	CKT NO
1,3	FCU-07 OFF 300	20	2	50	50		2	20	FCU-12 CLRM 301	2,4
1,3	FCU-07 OFF 300	20	2		50	50	2	20	FCU-12 CLRM 301	2,4
5,7	FCU-12 CLRM 301	20	2			50	50	2	20	FCU-18 CLRM 305	6,8
5,7	FCU-12 CLRM 301	20	2	50	50		2	20	FCU-18 CLRM 305	6,8
9,11	FCU-18 CLRM 305	20	2		50	50	2	20	FCU-18 CLRM 306	10,12
9,11	FCU-18 CLRM 305	20	2			50	50	2	20	FCU-18 CLRM 306	10,12
13,15	FCU-18 CLRM 306	20	2	50	50		2	20	FCU-18 CLRM 307	14,16
13,15	FCU-18 CLRM 306	20	2		50	50	2	20	FCU-18 CLRM 307	14,16
17,19	FCU-18 CLRM 307	20	2			50	50	2	20	FCU-18 CLRM 308	18,20
17,19	FCU-18 CLRM 307	20	2	50	50		2	20	FCU-18 CLRM 308	18,20
21,23	FCU-18 CLRM 308	20	2		50	50	2	20	FCU-18 CLRM 309	22,24
21,23	FCU-18 CLRM 308	20	2			50	50	2	20	FCU-18 CLRM 309	22,24
25,27	FCU-18 CLRM 310	20	2	50	50		2	20	FCU-18 CLRM 310	26,28
25,27	FCU-18 CLRM 310	20	2		50	50	2	20	FCU-18 CLRM 310	26,28
29,31	FCU-18 CLRM 311	20	2			50	50	2	20	FCU-18 CLRM 311	30,32
29,31	FCU-18 CLRM 311	20	2	50	50		2	20	FCU-18 CLRM 311	30,32
33,35	FCU-18 CLRM 312	20	2		50	50	2	20	FCU-18 CLRM 312	34,36
33,35	FCU-18 CLRM 312	20	2			50	50	2	20	FCU-18 CLRM 312	34,36
37,39	FCU-18 CLRM 313	20	2	50	50		2	20	FCU-18 CLRM 313	38,40
37,39	FCU-18 CLRM 313	20	2		50	50	2	20	FCU-18 CLRM 313	38,40
41,43	CAS-12 CORRIDOR	20	2			50	50	2	20	CAS-12 CORRIDOR	42,44
41,43	CAS-12 CORRIDOR	20	2	50	50		2	20	CAS-12 CORRIDOR	42,44
45	SPARE	20	1		0	0	1	20	SPARE	46
47	SPARE	20	1			0	0	1	20	SPARE	48
49	SPARE	20	1	0	0		1	20	SPARE	50
51	SPARE	20	1		0	0	1	20	SPARE	52
53	SPARE	20	1			0	0	1	20	SPARE	54
				CONNECTED LOAD PHASE TOTALS (VA)						
				800	700	700				

Equipment	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
	2.2	1.00	2.2
TOTAL:	2.2		2.2
LOAD (AMPS):	6.1		6.1

DEMAND LOAD 2.2 KVA
SPARE CAPACITY 33.8 KVA
SPARE CAPACITY 93.9 AMPS
SPARE CAPACITY 94%
PHASE BALANCE
A TO B 88%
B TO C 100%
C TO A 88%

PANEL MP4

VOLTAGE (L-N): 120 — ENCLOSURE TYPE: ----
VOLTAGE (L-L): 208 — MOUNTING: RECESSED
PHASES, WIRES: 3 ϕ 4 W — AIC RATING (A): 10000
MINIMUM BUS CAPACITY (A): 100 A — NOTES: ----
MAIN O.C. DEVICE (A): MLO

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A	B	C	POLE	TRIP AMPS	DESCRIPTION	CKT NO
1,3	FCU-07 OFF 300	20	2	50	50		2	20	FCU-12 CLRM 301	2,4
1,3	FCU-07 OFF 300	20	2		50	50	2	20	FCU-12 CLRM 301	2,4
5,7	FCU-12 CLRM 301	20	2			50	50	2	20	FCU-18 CLRM 305	6,8
5,7	FCU-12 CLRM 301	20	2	50	50		2	20	FCU-18 CLRM 305	6,8
9,11	FCU-18 CLRM 306	20	2		50	50	2	20	FCU-18 CLRM 306	10,12
9,11	FCU-18 CLRM 305	20	2			50	50	2	20	FCU-18 CLRM 306	10,12
13,15	FCU-18 CLRM 306	20	2	50	50		2	20	FCU-18 CLRM 307	14,16
13,15	FCU-18 CLRM 306	20	2		50	50	2	20	FCU-18 CLRM 307	14,16
17,19	FCU-18 CLRM 307	20	2			50	50	2	20	FCU-18 CLRM 308	18,20
17,19	FCU-18 CLRM 307	20	2	50	50		2	20	FCU-18 CLRM 308	18,20
21,23	FCU-18 CLRM 308	20	2		50	50	2	20	FCU-18 CLRM 309	22,24
21,23	FCU-18 CLRM 308	20	2			50	50	2	20	FCU-18 CLRM 309	22,24
25,27	FCU-18 CLRM 310	20	2	50	50		2	20	FCU-18 CLRM 310	26,28
25,27	FCU-18 CLRM 310	20	2		50	50	2	20	FCU-18 CLRM 310	26,28
29,31	FCU-18 CLRM 311	20	2			50	50	2	20	FCU-18 CLRM 311	30,32
29,31	FCU-18 CLRM 311	20	2	50	50		2	20	FCU-18 CLRM 311	30,32
33,35	FCU-18 CLRM 312	20	2		50	50	2	20	FCU-18 CLRM 312	34,36
33,35	FCU-18 CLRM 312	20	2			50	50	2	20	FCU-18 CLRM 312	34,36
37,39	FCU-18 CLRM 313	20	2	50	50		2	20	FCU-18 CLRM 313	38,40
37,39	FCU-18 CLRM 313	20	2		50	50	2	20	FCU-18 CLRM 313	38,40
41,43	CAS-12 CORRIDOR	20	2			50	50	2	20	CAS-12 CORRIDOR	42,44
41,43	CAS-12 CORRIDOR	20	2	50	50		2	20	CAS-12 CORRIDOR	42,44
45,47,49	EWH-1 STAIR-A	20	3	1332	1332		3	20	EWH-1 STAIR-B	46,48,50
45,47,49	EWH-1 STAIR-A	20	3			1332	1332	3	20	EWH-1 STAIR-B	46,48,50
45,47,49	EWH-1 STAIR-A	20	3	1332	1332		3	20	EWH-1 STAIR-B	46,48,50
51	SPARE	20	1		0	0	1	20	SPARE	52
53	SPARE	20	1			0	0	1	20	SPARE	54
				CONNECTED LOAD PHASE TOTALS (VA)						
				3464	3364	3364				

Equipment	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
	10.2	1.00	10.2
TOTAL:	10.2		10.2
LOAD (AMPS):	28.3		28.3

DEMAND LOAD 10.2 KVA
SPARE CAPACITY 25.8 KVA
SPARE CAPACITY 71.7 AMPS
SPARE CAPACITY 72%
PHASE BALANCE
A TO B 97%
B TO C 100%
C TO A 97%

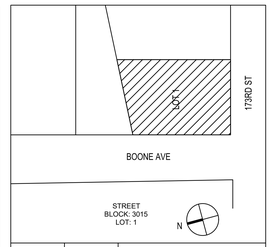
PANEL MP5

VOLTAGE (L-N): 120 — ENCLOSURE TYPE: ----
VOLTAGE (L-L): 208 — MOUNTING: RECESSED
PHASES, WIRES: 3 ϕ 4 W — AIC RATING (A): 10000
MINIMUM BUS CAPACITY (A): 100 A — NOTES: ----
MAIN O.C. DEVICE (A): MLO

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A	B	C	POLE	TRIP AMPS	DESCRIPTION	CKT NO
1,3	FCU-07 OFF 300	20	2	50	50		2	20	FCU-12 CLRM 301	2,4
1,3	FCU-07 OFF 300	20	2		50	50	2	20	FCU-12 CLRM 301	2,4
5,7	FCU-12 CLRM 301	20	2			50	50	2	20	FCU-18 CLRM 305	6,8
5,7	FCU-12 CLRM 301	20	2	50	50		2	20	FCU-18 CLRM 305	6,8
9,11	FCU-18 CLRM 306	20	2		50	50	2	20	FCU-18 CLRM 306	10,12
9,11	FCU-18 CLRM 305	20	2			50	50	2	20	FCU-18 CLRM 306	10,12
13,15	FCU-18 CLRM 306	20	2	50	50		2	20	FCU-18 CLRM 307	14,16
13,15	FCU-18 CLRM 306	20	2		50	50	2	20	FCU-18 CLRM 307	14,16
17,19	FCU-18 CLRM 307	20	2			50	50	2	20	FCU-18 CLRM 308	18,20
17,19	FCU-18 CLRM 307	20	2	50	50		2	20	FCU-18 CLRM 308	18,20
21,23	FCU-18 CLRM 308	20	2		50	50	2	20	FCU-18 CLRM 309	22,24
21,23	FCU-18 CLRM 308	20	2			50	50	2	20	FCU-18 CLRM 309	22,24
25,27	FCU-18 CLRM 310	20	2	50	50		2	20	FCU-18 CLRM 310	26,28
25,27	FCU-18 CLRM 310	20	2		50	50	2	20	FCU-18 CLRM 310	26,28
29,31	FCU-18 CLRM 311	20	2			50	50	2	20	FCU-18 CLRM 311	30,32
29,31	FCU-18 CLRM 311	20	2	50	50		2	20	FCU-18 CLRM 311	30,32
33,35	FCU-18 CLRM 312	20	2		50	50	2	20	FCU-18 CLRM 312	34,36
33,35	FCU-18 CLRM 312	20	2			50	50	2	20	FCU-18 CLRM 312	34,36
37,39	FCU-18 CLRM 313	20	2	50	50		2	20	FCU-18 CLRM 313	38,40
37,39	FCU-18 CLRM 313	20	2		50	50	2	20	FCU-18 CLRM 313	38,40
41,43	CAS-12 CORRIDOR	20	2			50	50	2	20	CAS-12 CORRIDOR	42,44
41,43	CAS-12 CORRIDOR	20	2	50	50		2	20	CAS-12 CORRIDOR	42,44
45	SPARE	20	1		0	0	1	20	SPARE	46
47	SPARE	20	1			0	0	1	20	SPARE	48
49	SPARE	20	1	0	0		1	20	SPARE	50
51	SPARE	20	1		0	0	1	20	SPARE	52
53	SPARE	20	1			0	0	1	20	SPARE	54
				CONNECTED LOAD PHASE TOTALS (VA)						
				800	700	700				

Equipment	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
	2.2	1.00	2.2
TOTAL:	2.2		2.2
LOAD (AMPS):	6.1		6.1

DEMAND LOAD 2.2 KVA
SPARE CAPACITY 33.8 KVA
SPARE CAPACITY 93.9 AMPS
SPARE CAPACITY 94%
PHASE BALANCE
A TO B 88%
B TO C 100%
C TO A 88%



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

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DOB XXXXXX

PROJECT NAME
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Bronx, New York 10460

DRAWING TITLE
PANEL SCHEDULE

Seal & Signature:

DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:
E-300.00
SHEET XX OF XX

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PANEL LPC

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	----
VOLTAGE (L–L):	208	MOUNTING:	RECESSED
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	10000
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	----
MAIN O.C. DEVICE (A):	MLO		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	CAFETERIA	20	1	1610	644					1	20	LOBBY/BATHROOMS	2
3	MEP ROOMS	20	1			368	207			1	20	STAIR A	4
5	STAIR B	20	1					207	9	1	20	EXIT SIGN	6
7	SPARE	20	1	0	0					1	20	SPARE	8
9	SPARE	20	1			0	0			1	20	SPARE	10
11	SPARE	20	1					0	0	1	20	SPARE	12
13	SPARE	20	1	0	0					1	20	SPARE	14
15	SPARE	20	1			0	0			1	20	SPARE	16
17	SPARE	20	1					0	0	1	20	SPARE	18
19	SPARE	20	1	0	0					1	20	SPARE	20
21	SPARE	20	1			0	0			1	20	SPARE	22
23	SPARE	20	1					0	0	1	20	SPARE	24
				CONNECTED LOAD PHASE TOTALS (VA)									
				2254		575		216					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Lighting	3.0	1.25	3.8
TOTAL:	3.0		3.8
LOAD (AMPS):	8.5		10.6

DEMAND LOAD	3.8 KVA
SPARE CAPACITY	32.2 KVA
SPARE CAPACITY	89.4 AMPS
SPARE CAPACITY	89 %
PHASE BALANCE	
A TO B	26 %
B TO C	38 %
C TO A	10 %

PANEL LP1

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	----
VOLTAGE (L–L):	208	MOUNTING:	RECESSED
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	10000
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	----
MAIN O.C. DEVICE (A):	MLO		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	GYMNASIUM	20	1	460	230					1	20	NURSE OFFICE/MTG ROOM 1–02/1–03	2
3	BATHROOM	20	1			184	483			1	20	CORRIDOR	4
5	EXTERIOR LIGHTS	20	1					230	69	1	20	ENTRANCE	6
7	STAIR A	20	1	184	184					1	20	STAIR B	8
9	EXIT SIGN	20	1			21	0			1	20	SPARE	10
11	SPARE	20	1					0	0	1	20	SPARE	12
13	SPARE	20	1	0	0					1	20	SPARE	14
15	SPARE	20	1			0	0			1	20	SPARE	16
17	SPARE	20	1					0	0	1	20	SPARE	18
19	SPARE	20	1	0	0					1	20	SPARE	20
21	SPARE	20	1			0	0			1	20	SPARE	22
23	SPARE	20	1					0	0	1	20	SPARE	24
				CONNECTED LOAD PHASE TOTALS (VA)									
				1058		688		299					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Lighting	2.0	1.25	2.6
TOTAL:	2.0		2.6
LOAD (AMPS):	5.7		7.1

DEMAND LOAD	2.6 KVA
SPARE CAPACITY	33.5 KVA
SPARE CAPACITY	92.9 AMPS
SPARE CAPACITY	93 %
PHASE BALANCE	
A TO B	65 %
B TO C	43 %
C TO A	28 %

PANEL LP2

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	----
VOLTAGE (L–L):	208	MOUNTING:	RECESSED
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	10000
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	----
MAIN O.C. DEVICE (A):	MLO		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	OFFICE 2–03/2–04	20	1	368	391					1	20	CORRIDORE	2
3	OFFICE 2–01/2–02	20	1			184	69			1	20	OUTDOOR LIGHTS	4
5	EXIT SIGN	20	1					9	0	1	20	SPARE	6
7	SPARE	20	1	0	0					1	20	SPARE	8
9	SPARE	20	1			0	0			1	20	SPARE	10
11	SPARE	20	1					0	0	1	20	SPARE	12
13	SPARE	20	1	0	0					1	20	SPARE	14
15	SPARE	20	1			0	0			1	20	SPARE	16
17	SPARE	20	1					0	0	1	20	SPARE	18
19	SPARE	20	1	0	0					1	20	SPARE	20
21	SPARE	20	1			0	0			1	20	SPARE	22
23	SPARE	20	1					0	0	1	20	SPARE	24
				CONNECTED LOAD PHASE TOTALS (VA)									
				759		253		9					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Lighting	1.0	1.25	1.3
TOTAL:	1.0		1.3
LOAD (AMPS):	2.8		3.5

DEMAND LOAD	1.3 KVA
SPARE CAPACITY	34.7 KVA
SPARE CAPACITY	96.5 AMPS
SPARE CAPACITY	96 %
PHASE BALANCE	
A TO B	33 %
B TO C	4 %
C TO A	1 %

PANEL LP3

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	----
VOLTAGE (L–L):	208	MOUNTING:	RECESSED
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	10000
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	----
MAIN O.C. DEVICE (A):	MLO		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	CLASSROOM/STAFF OFFICE 3–00/3–00	20	1	253	207					1	20	BATHROOM	2
3	CLASSROOM 3–05	20	1			299	552			1	20	CLASSROOM 3–06/07	4
5	CLASSROOM 3–08/09	20	1					437	552	1	20	CLASSROOM 3–10/11	6
7	CLASSROOM 3–12/13	20	1	552	575					1	20	CORRIDOR	8
9	EXIT	20	1			12	0			1	20	MECHANICAL ROOM	10
11	SPARE	20	1					0	0	1	20	SPARE	12
13	SPARE	20	1	0	0					1	20	SPARE	14
15	SPARE	20	1			0	0			1	20	SPARE	16
17	SPARE	20	1					0	0	1	20	SPARE	18
19	SPARE	20	1	0	0					1	20	SPARE	20
21	SPARE	20	1			0	0			1	20	SPARE	22
23	SPARE	20	1					0	0	1	20	SPARE	24
				CONNECTED LOAD PHASE TOTALS (VA)									
				1587		863		989					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Lighting	3.4	1.25	4.3
TOTAL:	3.4		4.3
LOAD (AMPS):	9.5		11.9

DEMAND LOAD	4.3 KVA
SPARE CAPACITY	31.7 KVA
SPARE CAPACITY	88.1 AMPS
SPARE CAPACITY	88 %
PHASE BALANCE	
A TO B	54 %
B TO C	87 %
C TO A	62 %

PANEL LP4

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	----
VOLTAGE (L–L):	208	MOUNTING:	RECESSED
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	10000
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	----
MAIN O.C. DEVICE (A):	MLO		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	CLASSROOM/STAFF OFFICE 4–00/4–00	20	1	253	207					1	20	BATHROOM	2
3	CLASSROOM 4–05	20	1			299	552			1	20	CLASSROOM 4–06/07	4
5	CLASSROOM 4–08/09	20	1					437	552	1	20	CLASSROOM 4–10/11	6
7	CLASSROOM 4–12/13	20	1	552	575					1	20	CORRIDOR	8
9	EXIT	20	1			12	0			1	20	MECHANICAL ROOM	10
11	SPARE	20	1					0	0	1	20	SPARE	12
13	SPARE	20	1	0	0					1	20	SPARE	14
15	SPARE	20	1			0	0			1	20	SPARE	16
17	SPARE	20	1					0	0	1	20	SPARE	18
19	SPARE	20	1	0	0					1	20	SPARE	20
21	SPARE	20	1			0	0			1	20	SPARE	22
23	SPARE	20	1					0	0	1	20	SPARE	24
				CONNECTED LOAD PHASE TOTALS (VA)									
				1587		863		989					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Lighting	3.4	1.25	4.3
TOTAL:	3.4		4.3
LOAD (AMPS):	9.5		11.9

DEMAND LOAD	4.3 KVA
SPARE CAPACITY	31.7 KVA
SPARE CAPACITY	88.1 AMPS
SPARE CAPACITY	88 %
PHASE BALANCE	
A TO B	54 %
B TO C	87 %
C TO A	62 %

PANEL LP5

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	----
VOLTAGE (L–L):	208	MOUNTING:	RECESSED
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	10000
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	----
MAIN O.C. DEVICE (A):	MLO		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	CLASSROOM/STAFF OFFICE 5–00/5–00	20	1	253	207					1	20	BATHROOM	2
3	CLASSROOM 5–05	20	1			299	552			1	20	CLASSROOM 5–06/07	4
5	CLASSROOM 5–08/09	20	1					437	552	1	20	CLASSROOM 5–10/11	6
7	CLASSROOM 5–12/13	20	1	552	575					1	20	CORRIDOR	8
9	EXIT	20	1			12	0			1	20	MECHANICAL ROOM	10
11	SPARE	20	1					0	0	1	20	SPARE	12
13	SPARE	20	1	0	0					1	20	SPARE	14
15	SPARE	20	1			0	0			1	20	SPARE	16
17	SPARE	20	1					0	0	1	20	SPARE	18
19	SPARE	20	1	0	0					1	20	SPARE	20
21	SPARE	20	1			0	0			1	20	SPARE	22
23	SPARE	20	1					0	0	1	20	SPARE	24
				CONNECTED LOAD PHASE TOTALS (VA)									
				1587		863		989					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Lighting	3.4	1.25	4.3
TOTAL:	3.4		4.3
LOAD (AMPS):	9.5		11.9

DEMAND LOAD	4.3 KVA
SPARE CAPACITY	31.7 KVA
SPARE CAPACITY	88.1 AMPS
SPARE CAPACITY	88 %
PHASE BALANCE	
A TO B	54 %
B TO C	87 %
C TO A	62 %

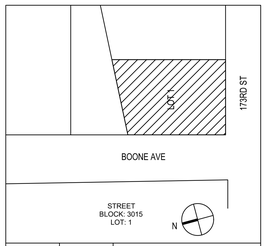
PANEL MP6

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	----
VOLTAGE (L–L):	208	MOUNTING:	RECESSED
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	10000
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	2 SECTION PANEL
MAIN O.C. DEVICE (A):	MLO		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1,3	FCU–07 OFF 300	20	2	50	50					2	20	FCU–12 CLRM 301	2,4
1,3	FCU–07 OFF 300	20	2			50	50			2	20	FCU–12 CLRM 301	2,4
5,7	FCU–12 CLRM 301	20	2					50	50	2	20	FCU–18 CLRM 305	6,8
5,7	FCU–12 CLRM 301	20	2	50	50					2	20	FCU–18 CLRM 305	6,8
9,11	FCU–18 CLRM 305	20	2			50	50			2	20	FCU–18 CLRM 306	10,12
9,11	FCU–18 CLRM 305	20	2					50	50	2	20	FCU–18 CLRM 306	10,12
13,15	FCU–18 CLRM 306	20	2	50	50					2	20	FCU–18 CLRM 307	14,16
13,15	FCU–18 CLRM 306	20	2			50	50			2	20	FCU–18 CLRM 307	14,16
17,19	FCU–18 CLRM 307	20	2					50	50	2	20	FCU–18 CLRM 308	18,20
17,19	FCU–18 CLRM 307	20	2	50	50					2	20	FCU–18 CLRM 308	18,20
21,23	FCU–18 CLRM 308	20	2			50	50			2	20	FCU–18 CLRM 309	22,24
21,23	FCU–18 CLRM 308	20	2					50	50	2	20	FCU–18 CLRM 309	22,24
25,27	FCU–18 CLRM 310	20	2	50	50					2	20	FCU–18 CLRM 310	26,28
25,27	FCU–18 CLRM 310	20	2			50	50			2	20	FCU–18 CLRM 310	26,28
29,31	FCU–18 CLRM 311	20	2					50	50	2	20	FCU–18 CLRM 311	30,32
29,31	FCU–18 CLRM 311	20	2	50	50					2	20	FCU–18 CLRM 311	30,32
33,35	FCU–18 CLRM 312	20	2			50	50			2	20	FCU–18 CLRM 312	34,36
33,35	FCU–18 CLRM 312	20	2					50	50	2	20	FCU–18 CLRM 312	34,36
37,39	FCU–18 CLRM 313	20	2	50	50					2	20	FCU–18 CLRM 313	38,40
37,39	FCU–18 CLRM 313	20	2			50	50			2	20	FCU–18 CLRM 313	38,40
41,43	CAS–12 CORRIDOR	20	2					50	50	2	20	CAS–12 CORRIDOR	42,44
41,43	CAS–12 CORRIDOR	20	2	50	50					2	20	CAS–12 CORRIDOR	42,44
45,47,49	EWH–1 STAIR–A ROOF	20	3			1332	1332			3	20	EWH–1 STAIR–B ROOF	46,48,50
45,47,49	EWH–1 STAIR–A ROOF	20	3					1332	1332	3	20	EWH–1 STAIR–B ROOF	46,48,50
45,47,49	EWH–1 STAIR–A ROOF	20	3	1332	1332					3	20	EWH–1 STAIR–B ROOF	46,48,50
51,53,55	ECUH–1 ROOF	20	3			1608	562			2	20	EWH–2 ROOF STORAGE	52,54
51,53,55	ECUH–1 ROOF	20	3					1608	562	2	20	EWH–2 ROOF STORAGE	52,54
51,53,55	ECUH–1 ROOF	20	3	1608	750					1	20	EH–1 ROOF	56
57	CEF–2 ROOF	20	1			50	2184			2	25	ACCU–IT–A	58,60
59,61	ACCU–IT–B	25	2					2184	2184	2	25	ACCU–IT–A	58,60
59,61	ACCU–IT–B	25	2	2184	420					3	15	KXF–1	62,64,66
63,65	ACCU–EMR	25	2			1699	420			3	15	KXF–1	62,64,66
63,65	ACCU–EMR	25	2					1699	420	3	15	KXF–1	62,64,66
67	SPARE	20	1	0	0					1	20	SPARE	68
69	SPARE	20	1			0	0			1	20	SPARE	70
71	SPARE	20	1					0	0	1	20	SPARE	72
73	SPARE	20	1	0	0					1	20	SPARE	74
75	SPARE	20	1			0	0			1	20	SPARE	76
77	SPARE	20	1					0	0	1	20	SPARE	78
79	SPARE	20	1	0	0					1	20	SPARE	80
81	SPARE	20	1			0	0			1	20	SPARE	82
83	SPARE	20	1					0	0	1	20	SPARE	84
				CONNECTED LOAD PHASE TOTALS (VA)									
				8426		9887		12021					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Motors	0.0	1.00	0.0
Motors (Largest)	1.3	1.25	1.6
Equipment	29.1	1.00	29.1
TOTAL:	30.3		30.6
LOAD (AMPS):	84.2		85.1

DEMAND LOAD	30.6 KVA
SPARE CAPACITY	5.4 KVA
SPARE CAPACITY	14.9 AMPS
SPARE CAPACITY	15 %
PHASE BALANCE	
A TO B	85 %
B TO C	82 %
C TO A	70 %



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

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DOB XXXXXX

PROJECT NAME
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DRAWING TITLE
PANEL SCHEDULE

Seal & Signature:

DATE:	06/06/19
PROJECT #:	19-0514
DWG SCALE:	AS SHOWN
DRAWING NO.:	E-301.00
SHEET	XX OF XX

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PANEL RPC

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	----
VOLTAGE (L–L):	208	MOUNTING:	RECESSED
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	10000
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	----
MAIN O.C. DEVICE (A):	MLO		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	SERVICE ROOM GFI	20	1	540	180					1	20	GIRLS RESTROOM GFI	2
3	BOYS RESTROOM GFI	20	1			180	180			1	20	ADA RESTRM GFI	4
5	DRINKING FOUNTAIN	20	1					500	500	1	20	DRINKING FOUNTAIN	6
7	ELEV PIT GFI/LTG	20	1	180	1176					1	20	ELEV PIT SUMP PUMP	8
9	CAFETERIA RECPTS	20	1			1080	1080			1	20	CAFETERIA RECPTS	10
11	CELLAR LOBBY CIRCUITS	20	1					360	0	1	20	SPARE	12
13	SPARE	20	1	0	0					1	20	SPARE	14
15	SPARE	20	1			0	0			1	20	SPARE	16
17	SPARE	20	1					0	0	1	20	SPARE	18
19	SPARE	20	1	0	0					1	20	SPARE	20
21	SPARE	20	1			0	0			1	20	SPARE	22
23	SPARE	20	1					0	0	1	20	SPARE	24
25	SPARE	20	1	0	0					1	20	SPARE	26
27	SPARE	20	1			0	0			1	20	SPARE	28
29	SPARE	20	1					0	0	1	20	SPARE	30
31	SPARE	20	1	0	0					1	20	SPARE	32
33	SPARE	20	1			0	0			1	20	SPARE	34
35	SPARE	20	1					0	0	1	20	SPARE	36
37	SPARE	20	1	0	0					1	20	SPARE	38
39	SPARE	20	1			0	0			1	20	SPARE	40
41	SPARE	20	1					0	0	1	20	SPARE	42
				CONNECTED LOAD PHASE TOTALS (VA)									
				2076		2520		1360					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Receptacles (0 – 10 KVA)	6.0	1.00	6.0
Lighting	0.0	1.25	0.0
TOTAL:	6.0		6.0
LOAD (AMPS):	16.5		16.5

DEMAND LOAD	6.0 KVA
SPARE CAPACITY	30.1 KVA
SPARE CAPACITY	83.5 AMPS
SPARE CAPACITY	83 %
PHASE BALANCE	
A TO B	82 %
B TO C	54 %
C TO A	66 %

PANEL RP3

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	----
VOLTAGE (L–L):	208	MOUNTING:	RECESSED
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	10000
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	----
MAIN O.C. DEVICE (A):	MLO		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	CLRM–308 SB/PC	20	1	480	500					1	20	DRINKING FOUNTAIN	2
3	DRINKING FOUNTAIN	20	1			500	1080			1	20	CLRM–308/309 GEN RECPT	4
5	CLRM–309 SB/PC	20	1					480	480	1	20	CLRM–310 SB/PC	6
7	CLRM–311 SB/PC	20	1	480	1080					1	20	CLRM–310/311 GEN RECPT	8
9	CLRM–312 SB/PC	20	1			480	480			1	20	CLRM–313 SB/PC	10
11	CLRM–312/313 GEN RECPT	20	1					1080	480	1	20	CLRM–307 SB/PC	12
13	CLRM–306 SB/PC	20	1	480	1080					1	20	CLRM–306/307 GEN RECPT	14
15	CLRM–305 SB/PC	20	1			480	480			1	20	CLRM–301 SB/PC	16
17	CLRM–301/305 GEN RECPT	20	1					1080	300	1	20	OFF–300 RECPT	18
19	OFF–300 RECPT	20	1	360	180					1	20	BOYS BATHRM GFI	20
21	GIRLS BATHRM GFI	20	1			180	360			1	20	CORRIDOR RECEPTS	22
23	RESTROOM GFI	20	1					180	0	1	20	SPARE	24
25	SPARE	20	1	0	0					1	20	SPARE	26
27	SPARE	20	1			0	0			1	20	SPARE	28
29	SPARE	20	1					0	0	1	20	SPARE	30
31	SPARE	20	1	0	0					1	20	SPARE	32
33	SPARE	20	1			0	0			1	20	SPARE	34
35	SPARE	20	1					0	0	1	20	SPARE	36
37	SPARE	20	1	0	0					1	20	SPARE	38
39	SPARE	20	1			0	0			1	20	SPARE	40
41	SPARE	20	1					0	0	1	20	SPARE	42
				CONNECTED LOAD PHASE TOTALS (VA)									
				4640		4040		4080					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Receptacles (0 – 10 KVA)	10.0	1.00	10.0
Receptacles (Over 10 KVA)	2.8	0.50	1.4
TOTAL:	12.8		11.4
LOAD (AMPS):	35.4		31.6

DEMAND LOAD	11.4 KVA
SPARE CAPACITY	24.6 KVA
SPARE CAPACITY	68.4 AMPS
SPARE CAPACITY	68 %
PHASE BALANCE	
A TO B	87 %
B TO C	99 %
C TO A	88 %

PANEL RP1

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	----
VOLTAGE (L–L):	208	MOUNTING:	RECESSED
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	10000
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	----
MAIN O.C. DEVICE (A):	MLO		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	DRINKING FOUNTAIN	20	1	500	500					1	20	DRINKING FOUNTAIN	2
3	DRINKING FOUNTAIN	20	1			500	500			1	20	DRINKING FOUNTAIN	4
5	A/V CLOSET RECPT	20	1					180	180	1	20	A/V CLOSET RECPT	6
7	A/V CLOSET RECPT	20	1	180	180					1	20	SECURITY DESK RECPT	8
9	SECURITY DESK RECPT	20	1			180	480			1	20	REC OFF WKST RECP	10
11	REC OFF GEN RECP	20	1					540	540	1	20	GYMNASIUM GEN RECPTS	12
13	GYMNASIUM GEN RECPTS	20	1	720	180					1	20	EXTERIOR GFI	14
15	BOYS BATHRM GFI	20	1			180	180			1	20	GIRLS BATHRM GFI	16
17	ADA RESTRM GFI	20	1					180	480	1	20	NURSE OFF RECEPTS	18
19	NURSE OFF RECEPTS	20	1	540	480					1	20	CONF RM RECEPT	20
21	CONF RM RECEPT	20	1			540	180			1	20	CONF RM PANTRY RECEPT	22
23	CORRIDOR RECEPT	20	1					180	0	1	20	SPARE	24
25	SPARE	20	1	0	0					1	20	SPARE	26
27	SPARE	20	1			0	0			1	20	SPARE	28
29	SPARE	20	1					0	0	1	20	SPARE	30
31	SPARE	20	1	0	0					1	20	SPARE	32
33	SPARE	20	1			0	0			1	20	SPARE	34
35	SPARE	20	1					0	0	1	20	SPARE	36
37	SPARE	20	1	0	0					1	20	SPARE	38
39	SPARE	20	1			0	0			1	20	SPARE	40
41	SPARE	20	1					0	0	1	20	SPARE	42
				CONNECTED LOAD PHASE TOTALS (VA)									
				3280		2740		2280					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Receptacles (0 – 10 KVA)	8.3	1.00	8.3
TOTAL:	8.3		8.3
LOAD (AMPS):	23.0		23.0

DEMAND LOAD	8.3 KVA
SPARE CAPACITY	27.7 KVA
SPARE CAPACITY	77.0 AMPS
SPARE CAPACITY	77 %
PHASE BALANCE	
A TO B	84 %
B TO C	83 %
C TO A	70 %

PANEL RP4

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	----
VOLTAGE (L–L):	208	MOUNTING:	RECESSED
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	10000
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	----
MAIN O.C. DEVICE (A):	MLO		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	CLRM–308 SB/PC	20	1	480	500					1	20	DRINKING FOUNTAIN	2
3	DRINKING FOUNTAIN	20	1			500	1080			1	20	CLRM–308/309 GEN RECPT	4
5	CLRM–309 SB/PC	20	1					480	480	1	20	CLRM–310 SB/PC	6
7	CLRM–311 SB/PC	20	1	480	1080					1	20	CLRM–310/311 GEN RECPT	8
9	CLRM–312 SB/PC	20	1			480	480			1	20	CLRM–313 SB/PC	10
11	CLRM–312/313 GEN RECPT	20	1					1080	480	1	20	CLRM–307 SB/PC	12
13	CLRM–306 SB/PC	20	1	480	1080					1	20	CLRM–306/307 GEN RECPT	14
15	CLRM–305 SB/PC	20	1			480	480			1	20	CLRM–301 SB/PC	16
17	CLRM–301/305 GEN RECPT	20	1					1080	300	1	20	OFF–300 RECPT	18
19	OFF–300 RECPT	20	1	360	180					1	20	BOYS BATHRM GFI	20
21	GIRLS BATHRM GFI	20	1			180	360			1	20	CORRIDOR RECEPTS	22
23	RESTROOM GFI	20	1					180	0	1	20	SPARE	24
25	SPARE	20	1	0	0					1	20	SPARE	26
27	SPARE	20	1			0	0			1	20	SPARE	28
29	SPARE	20	1					0	0	1	20	SPARE	30
31	SPARE	20	1	0	0					1	20	SPARE	32
33	SPARE	20	1			0	0			1	20	SPARE	34
35	SPARE	20	1					0	0	1	20	SPARE	36
37	SPARE	20	1	0	0					1	20	SPARE	38
39	SPARE	20	1			0	0			1	20	SPARE	40
41	SPARE	20	1					0	0	1	20	SPARE	42
				CONNECTED LOAD PHASE TOTALS (VA)									
				4640		4040		4080					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Receptacles (0 – 10 KVA)	10.0	1.00	10.0
Receptacles (Over 10 KVA)	2.8	0.50	1.4
TOTAL:	12.8		11.4
LOAD (AMPS):	35.4		31.6

DEMAND LOAD	11.4 KVA
SPARE CAPACITY	24.6 KVA
SPARE CAPACITY	68.4 AMPS
SPARE CAPACITY	68 %
PHASE BALANCE	
A TO B	87 %
B TO C	99 %
C TO A	88 %

PANEL RP2

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	----
VOLTAGE (L–L):	208	MOUNTING:	RECESSED
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	10000
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	----
MAIN O.C. DEVICE (A):	MLO		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	BATHRM GFI	20	1	180	180					1	20	BATHRM GFI	2
3	STAFF OFFICE RECPTS	20	1			660	1080			1	20	STAFF/PRINCPAL OFF RCPT	4
5	PRINCIPAL OFF RECPTS	20	1					660	180	1	20	IT–CLOSET RECEPT	6
7	IT–CLOSET RECEPT	20	1	180	180					1	20	IT–CLOSET RECEPT	8
9	ADMIN OFF RECPTS	20	1			900	900			1	20	ADMIN OFF RECPTS	10
11	ADMIN OFF RECPTS	20	1					600	720	1	20	ADMIN OFF RECPTS	12
13	ADMIN OFF RECPTS	20	1	900	360					1	20	ADMIN OFF GEN RECPT	14
15	ADMIN/RECP RECPTS	20	1			1080	720			1	20	ADMIN/RECP RECPTS	16
17	STAFF OFF PANTRY RECPT	20	1					180	180	1	20	STAFF OFF PANTRY RECPT	18
19	STAFF OFF RECPTS	20	1	900	900					1	20	STAFF OFF RECPTS	20
21	STAFF OFF RECPTS	20	1			600	1080			1	20	STAFF OFF RECPTS	22
23	STAFF OFF RECPTS	20	1					720	660	1	20	VICE PR RECPTS	24
25	VICE PR RECPTS	20	1	540	180					1	20	MECHANICAL ROOM GFI*	26
27	SPARE	20	1			0	0			1	20	SPARE	28
29	SPARE	20	1					0	0	1	20	SPARE	30
31	SPARE	20	1	0	0					1	20	SPARE	32
33	SPARE	20	1			0	0			1	20	SPARE	34
35	SPARE	20	1					0	0	1	20	SPARE	36
37	SPARE	20	1	0	0					1	20	SPARE	38
39	SPARE	20	1			0	0			1	20	SPARE	40
41	SPARE	20	1					0	0	1	20	SPARE	42
				CONNECTED LOAD PHASE TOTALS (VA)									
				4500		7020		3900					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Receptacles (0 – 10 KVA)	10.0	1.00	10.0
Receptacles (Over 10 KVA)	5.4	0.50	2.7
TOTAL:	15.4		12.7
LOAD (AMPS):	42.8		35.3

DEMAND LOAD	12.7 KVA
SPARE CAPACITY	23.3 KVA
SPARE CAPACITY	64.7 AMPS
SPARE CAPACITY	65 %
PHASE BALANCE	
A TO B	64 %
B TO C	56 %
C TO A	87 %

PANEL RP5

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	----
VOLTAGE (L–L):	208	MOUNTING:	RECESSED
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	10000
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	----
MAIN O.C. DEVICE (A):	MLO		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	CLRM–308 SB/PC	20	1	480	500					1	20	DRINKING FOUNTAIN	2
3	DRINKING FOUNTAIN	20	1			500	1080			1	20	CLRM–308/309 GEN RECPT	4
5	CLRM–309 SB/PC	20	1					480	480	1	20	CLRM–310 SB/PC	6
7	CLRM–311 SB/PC	20	1	480	1080					1	20	CLRM–310/311 GEN RECPT	8
9	CLRM–312 SB/PC	20	1			480	480			1	20	CLRM–313 SB/PC	10
11	CLRM–312/313 GEN RECPT	20	1					1080	480	1	20	CLRM–307 SB/PC	12
13	CLRM–306 SB/PC	20	1	480	1080					1	20	CLRM–306/307 GEN RECPT	14
15	CLRM–305 SB/PC	20	1			480	480			1	20	CLRM–301 SB/PC	16
17	CLRM–301/305 GEN RECPT	20	1					1080	300	1	20	OFF–300 RECPT	18
19	OFF–300 RECPT	20	1	360	180					1	20	BOYS BATHRM GFI	20
21	GIRLS BATHRM GFI	20	1			180	360			1	20	CORRIDOR RECEPTS	22
23	RESTROOM GFI	20	1					180	0	1	20	SPARE	24
25	SPARE	20	1	0	0					1	20	SPARE	26
27	SPARE	20	1			0	0			1	20	SPARE	28
29	SPARE	20	1					0	0	1	20	SPARE	30
31	SPARE	20	1	0	0					1	20	SPARE	32
33	SPARE	20	1			0	0			1	20	SPARE	34
35	SPARE	20	1					0	0	1	20	SPARE	36
37	SPARE	20	1	0	0					1	20	SPARE	38
39	SPARE	20	1			0	0			1	20	SPARE	40
41	SPARE	20	1					0	0	1	20	SPARE	42
				CONNECTED LOAD PHASE TOTALS (VA)									
				4640		4040		4080					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Receptacles (0 – 10 KVA)	10.0	1.00	10.0
Receptacles (Over 10 KVA)	2.8	0.50	1.4
TOTAL:	12.8		11.4
LOAD (AMPS):	35.4		31.6

DEMAND LOAD	11.4 KVA
SPARE CAPACITY	24.6 KVA
SPARE CAPACITY	68.4 AMPS
SPARE CAPACITY	68 %
PHASE BALANCE	
A TO B	87 %
B TO C	99 %
C TO A	88 %

RELAY PANEL CONTROL SCHEDULE

PANEL ID	DESCRIPTION	LOCATION	TYPE	POWER SUPPLY	CIRCUIT
RELAY1	CELLAR	CELLAR	TBD	120	??

RELAY	CIRCUIT	DESCRIPTION	CONTROL
1	RP1-11	RECEPTION OFFICE RECEPTACLES	OV/TC
2	RP1-19	NURSES OFFICE RECEPTACLES	OV/TC
3	RP1-21	CONFERENCE ROOM RECEPTACLES	OV/TC
4	--	--	--
5	--	--	--
6	--	--	--
7	--	--	--
8	--	--	--

NOMENCLATURE:
TC - TIME CLOCK OCC - OCCUPANCY SENSOR OV - OVERRIDE SWITCH

RELAY PANEL CONTROL SCHEDULE

PANEL ID	DESCRIPTION	LOCATION	TYPE	POWER SUPPLY	CIRCUIT
RELAY2	2ND FLOOR	HALLWAY	TBD	120	??

RELAY	CIRCUIT	DESCRIPTION	CONTROL
1	RP2-4	STAFF OFFICE AND PRINCIPAL OFFICE	OV/TC
2	RP2-12	ADMIN OFFICE RECEPTACLES	OV/TC
3	RP2-13	ADMIN OFFICE RECEPTACLES	OV/TC
4	RP2-16	ADMIN OFF & RECEPTION OFFICE RCPTS	OV/TC
5	RP2-22	STAFF OFFICE RECEPTACLES	OV/TC
6	RP2-23	STAFF OFFICE RECEPTACLES	OV/TC
7	RP2-25	VICE PRINCIPAL OFFICE	OV/TC
8	--	--	--

NOMENCLATURE:
TC - TIME CLOCK OCC - OCCUPANCY SENSOR OV - OVERRIDE SWITCH

RELAY PANEL CONTROL SCHEDULE

PANEL ID	DESCRIPTION	LOCATION	TYPE	POWER SUPPLY	CIRCUIT
RELAY3	TYPICAL FLOOR	HALLWAY	TBD	120	??

RELAY	CIRCUIT	DESCRIPTION	CONTROL
1	RP3-4	CLASSROOM 308/309 RECEPTACLES	OV/TC
2	RP3-8	CLASSROOM 310/311 RECEPTACLES	OV/TC
3	RP3-11	CLASSROOM 312/313 RECEPTACLES	OV/TC
4	RP3-14	CLASSROOM 307/308 RECEPTACLES	OV/TC
5	RP3-17	CLASSROOM 301/305 RECEPTACLES	OV/TC
6	RP3-19	OFFICE 300 RECEPTACLES	OV/TC
7	--	--	OV/TC
8	--	--	--

NOMENCLATURE:
TC - TIME CLOCK OCC - OCCUPANCY SENSOR OV - OVERRIDE SWITCH

RELAY PANEL CONTROL SCHEDULE

PANEL ID	DESCRIPTION	LOCATION	TYPE	POWER SUPPLY	CIRCUIT
RELAY4	TYPICAL FLOOR	HALLWAY	TBD	120	??

RELAY	CIRCUIT	DESCRIPTION	CONTROL
1	RP4-4	CLASSROOM 408/409 RECEPTACLES	OV/TC
2	RP4-8	CLASSROOM 410/411 RECEPTACLES	OV/TC
3	RP4-11	CLASSROOM 412/413 RECEPTACLES	OV/TC
4	RP4-14	CLASSROOM 407/408 RECEPTACLES	OV/TC
5	RP4-17	CLASSROOM 401/405 RECEPTACLES	OV/TC
6	RP4-19	OFFICE 400 RECEPTACLES	OV/TC
7	--	--	OV/TC
8	--	--	--

NOMENCLATURE:
TC - TIME CLOCK OCC - OCCUPANCY SENSOR OV - OVERRIDE SWITCH

RELAY PANEL CONTROL SCHEDULE

PANEL ID	DESCRIPTION	LOCATION	TYPE	POWER SUPPLY	CIRCUIT
RELAY5	TYPICAL FLOOR	HALLWAY	TBD	120	??

RELAY	CIRCUIT	DESCRIPTION	CONTROL
1	RP5-4	CLASSROOM 508/509 RECEPTACLES	OV/TC
2	RP5-8	CLASSROOM 510/511 RECEPTACLES	OV/TC
3	RP5-11	CLASSROOM 512/513 RECEPTACLES	OV/TC
4	RP5-14	CLASSROOM 507/508 RECEPTACLES	OV/TC
5	RP5-17	CLASSROOM 501/505 RECEPTACLES	OV/TC
6	RP5-19	OFFICE 500 RECEPTACLES	OV/TC
7	--	--	OV/TC
8	--	--	--

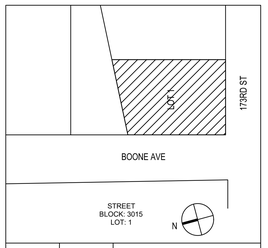
NOMENCLATURE:
TC - TIME CLOCK OCC - OCCUPANCY SENSOR OV - OVERRIDE SWITCH

RELAY PANEL CONTROL SCHEDULE

PANEL ID	DESCRIPTION	LOCATION	TYPE	POWER SUPPLY	CIRCUIT
RELAY6	TYPICAL FLOOR	HALLWAY	TBD	120	??

RELAY	CIRCUIT	DESCRIPTION	CONTROL
1	RP6-4	CLASSROOM 608/609 RECEPTACLES	OV/TC
2	RP6-8	CLASSROOM 610/611 RECEPTACLES	OV/TC
3	RP6-11	CLASSROOM 612/613 RECEPTACLES	OV/TC
4	RP6-14	CLASSROOM 607/608 RECEPTACLES	OV/TC
5	RP6-17	CLASSROOM 601/605 RECEPTACLES	OV/TC
6	RP6-19	OFFICE 600 RECEPTACLES	OV/TC
7	--	--	OV/TC
8	--	--	--

NOMENCLATURE:
TC - TIME CLOCK OCC - OCCUPANCY SENSOR OV - OVERRIDE SWITCH



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

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DRAWING TITLE
PANEL SCHEDULE

Seal & Signature:

DATE:	06/06/19
PROJECT #:	19-0514
DWG SCALE:	AS SHOWN
DRAWING NO.:	E-302.00
SHEET	XX OF XX

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PANEL MDPL

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	----
VOLTAGE (L–L):	208	MOUNTING:	FLOOR
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	10000
MINIMUM BUS CAPACITY (A):	200 A	NOTES:	----
MAIN O.C. DEVICE (A):	MLO		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1,3,5	PANEL LPC	60	3	2254	1058					3	60	PANEL LP1	2,4,6
1,3,5	PANEL LPC	60	3			575	688			3	60	PANEL LP1	2,4,6
1,3,5	PANEL LPC	60	3					216	299	3	60	PANEL LP1	2,4,6
7,9,11	PANEL LP2	60	3	759	-----					----	----	----	----
7,9,11	PANEL LP2	60	3			253	-----			----	----	----	----
7,9,11	PANEL LP2	60	3					9	1587	3	60	PANEL LP3	12,14,16
13,15,17	PANEL LP4	60	3	1587	863					3	60	PANEL LP3	12,14,16
13,15,17	PANEL LP4	60	3			863	989			3	60	PANEL LP3	12,14,16
13,15,17	PANEL LP4	60	3					989	1587	3	60	PANEL LP5	18,20,22
19,21,23	PANEL LP6	60	3	1656	863					3	60	PANEL LP5	18,20,22
19,21,23	PANEL LP6	60	3			1001	989			3	60	PANEL LP5	18,20,22
19,21,23	PANEL LP6	60	3					1058					
				CONNECTED LOAD PHASE TOTALS (VA)									
				9040		5358		5745					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Lighting	20.1	1.25	25.2
TOTAL:	20.1		25.2
LOAD (AMPS):	55.9		69.9

DEMAND LOAD	25.2 KVA
SPARE CAPACITY	46.9 KVA
SPARE CAPACITY	130.1 AMPS
SPARE CAPACITY	65 %
PHASE BALANCE	
A TO B	59 %
B TO C	93 %
C TO A	64 %

PANEL MDPR

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	----
VOLTAGE (L–L):	208	MOUNTING:	FLOOR
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	10000
MINIMUM BUS CAPACITY (A):	400 A	NOTES:	----
MAIN O.C. DEVICE (A):	MLO		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1,3,5	PANEL RPC	100	3	2076	3280					3	100	PANEL RP1	2,4,6
1,3,5	PANEL RPC	100	3			2520	2740			3	100	PANEL RP1	2,4,6
1,3,5	PANEL RPC	100	3					1360	2280	3	100	PANEL RP1	2,4,6
7,9,11	PANEL RP2	100	3	4500	-----					----	----	----	----
7,9,11	PANEL RP2	100	3			7020	-----			----	----	----	----
7,9,11	PANEL RP2	100	3					3900	4640	3	100	PANEL RP3	12,14,16
13,15,17	PANEL RP4	100	3	4640	4040					3	100	PANEL RP3	12,14,16
13,15,17	PANEL RP4	100	3			4040	4080			3	100	PANEL RP3	12,14,16
13,15,17	PANEL RP4	100	3					4080	4640	3	100	PANEL RP5	18,20,22
19,21,23	PANEL RP6	100	3	5180	4040					3	100	PANEL RP5	18,20,22
19,21,23	PANEL RP6	100	3			4940	4080			3	100	PANEL RP5	18,20,22
19,21,23	PANEL RP6	100	3					4720					
				CONNECTED LOAD PHASE TOTALS (VA)									
				27756		29420		25620					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Receptacles (0 – 10 KVA)	10.0	1.00	10.0
Receptacles (Over 10 KVA)	72.7	0.50	36.3
Lighting	0.0	1.25	0.0
Equipment	0.1	1.00	0.1
TOTAL:	82.8		46.4
LOAD (AMPS):	229.8		128.9

DEMAND LOAD	46.4 KVA
SPARE CAPACITY	97.7 KVA
SPARE CAPACITY	271.1 AMPS
SPARE CAPACITY	68 %
PHASE BALANCE	
A TO B	94 %
B TO C	87 %
C TO A	92 %

PANEL LP6

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	----
VOLTAGE (L–L):	208	MOUNTING:	RECESSED
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	10000
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	----
MAIN O.C. DEVICE (A):	MLO		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	CLASSROOM/STAFF OFFICE 6–00/6–01 LIGHTING	20	1	230	299					1	20	RESTROOMS	2
3	CLASSROOM 6–05 RESTROOM 6–04	20	1			253	552			1	20	CLASSROOM 6–06/6–07	4
5	CLASSROOM 6–08/6–09	20	1					414	552	1	20	CLASSROOM 6–10/6–11	6
7	CLASSROOM 6–12/6–13	20	1	552	575					1	20	CORRIDORE	8
9	EXIT SIGN	20	1			12	184			1	20	ROOF/BULKHEAD LIGHTS	10
11	ROOF EXTERIOR LIGHTS	20	1					92	0	1	20	SPARE	12
13	SPARE	20	1	0	0					1	20	SPARE	14
15	SPARE	20	1			0	0			1	20	SPARE	16
17	SPARE	20	1					0	0	1	20	SPARE	18
19	SPARE	20	1	0	0					1	20	SPARE	20
21	SPARE	20	1			0	0			1	20	SPARE	22
23	SPARE	20	1					0	0	1	20	SPARE	24
				CONNECTED LOAD PHASE TOTALS (VA)									
				1656		1001		1058					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Lighting	3.7	1.25	4.6
TOTAL:	3.7		4.6
LOAD (AMPS):	10.3		12.9

DEMAND LOAD	4.6 KVA
SPARE CAPACITY	31.4 KVA
SPARE CAPACITY	87.1 AMPS
SPARE CAPACITY	87 %
PHASE BALANCE	
A TO B	60 %
B TO C	95 %
C TO A	64 %

PANEL RP6

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	----
VOLTAGE (L–L):	208	MOUNTING:	SURFACE
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	10000
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	----
MAIN O.C. DEVICE (A):	MLO		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	CLRM–308 SB/PC	20	1	480	500					1	20	DRINKING FOUNTAIN	2
3	DRINKING FOUNTAIN	20	1			500	1080			1	20	CLRM–308/309 GEN RECPT	4
5	CLRM–309 SB/PC	20	1					480	480	1	20	CLRM–310 SB/PC	6
7	CLRM–311 SB/PC	20	1	480	1080					1	20	CLRM–310/311 GEN RECPT	8
9	CLRM–312 SB/PC	20	1			480	480			1	20	CLRM–313 SB/PC	10
11	CLRM–312/313 GEN RECPT	20	1					1080	480	1	20	CLRM–307 SB/PC	12
13	CLRM–306 SB/PC	20	1	480	1080					1	20	CLRM–306/307 GEN RECPT	14
15	CLRM–305 SB/PC	20	1			480	480			1	20	CLRM–301 SB/PC	16
17	CLRM–301/305 GEN RECPT	20	1					1080	300	1	20	OFF–300 RECPT	18
19	OFF–300 RECPT	20	1	360	180					1	20	BOYS BATHRM GFI	20
21	GIRLS BATHRM GFI	20	1			180	360			1	20	CORRIDOR RECEPTS	22
23	RESTROOM GFI	20	1					180	180	1	20	DRINKING FOUNTAIN–ROOF	24
25	DRINKING FOUNTAIN–ROOF	20	1	180	180					1	20	ROOF RESTRM GFI	26
27	ROOF CORRIDOR RECPT	20	1			180	720			1	20	ROOF GFI	28
29	ROOF GFI	20	1					360	100	1	20	ELEV CAB LTGS	30
31	EMR GFI	20	1	180	0					1	20	SPARE	32
33	SPARE	20	1			0	0			1	20	SPARE	34
35	SPARE	20	1					0	0	1	20	SPARE	36
37	SPARE	20	1	0	0					1	20	SPARE	38
39	SPARE	20	1			0	0			1	20	SPARE	40
41	SPARE	20	1					0	0	1	20	SPARE	42
				CONNECTED LOAD PHASE TOTALS (VA)									
				5180		4940		4720					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Receptacles (0 – 10 KVA)	10.0	1.00	10.0
Receptacles (Over 10 KVA)	4.7	0.50	2.4
Equipment	0.1	1.00	0.1
TOTAL:	14.8		12.5
LOAD (AMPS):	41.2		34.6

DEMAND LOAD	12.5 KVA
SPARE CAPACITY	23.6 KVA
SPARE CAPACITY	65.4 AMPS
SPARE CAPACITY	65 %
PHASE BALANCE	
A TO B	95 %
B TO C	96 %
C TO A	91%

SWITCHBOARD MDP

120/208 VOLTS	3 ϕ 4 W	600 A AMP MLO	10000 A.I.C. RATING
		600 A AMP BUS	FLOOR MOUNTED

CKT. NO.	TRIP/ POLES	DESCRIPTION	DEMAND LOAD VA	WIRE SIZE
1	200/3	ELEVATOR	41040	3x3/0;--;1x6;--
2	110/3	HWH–1	30000	3x2;--;1x6;--
3	110/3	HWH–2	30000	3x2;--;1x6;--
4	50/3	PRESSURE BOOSTER PUMP	13527	3x6;--;1x10;--
5	20/3	SEWAGE EJECTOR PUMP	2520	3x12;--;1x12;--
6	30/3	AHU–1	6480	3x350;--;1x4;--
7	100/3	PANEL KP	14090	<Undefined>
8	30/3	SPARE	0	<Undefined>
9	30/3	SPARE	0	<Undefined>
10	100/3	SPARE	0	<Undefined>
11	60/3	SPARE	0	<Undefined>

Load Category	Connected Load (KVA) x	Demand Factor =	Demand Load (KVA)
Receptacles (0 – 10 KVA)	10.0	1.00	10.0
Receptacles (Over 10 KVA)	8.2	0.50	4.1
Motors	13.5	1.00	13.5
Motors (Largest)	41.0	1.25	51.3
Equipment	69.0	1.00	69.0

TOTAL CONN. LOAD:	141.7 KVA
TOTAL DEMAND LOAD:	147.9 KVA
TOTAL DEMAND LOAD:	410.6 AMPS
SPARE CAPACITY:	189.4 AMPS

PANEL SPP

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	----
VOLTAGE (L–L):	208	MOUNTING:	SURFACE
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	10000
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	----
MAIN O.C. DEVICE (A):	MLO		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	CELLAR FSD	20	1	200	150					1	20	1ST FLOOR FSD	2
3	2ND FLOOR FSD	20	1			500	500			1	20	2ND FLOOR FSD	4
5	3RD FLOOR FSD	20	1					300	300	1	20	4TH FLOOR FSD	6
7	5TH FLOOR FSD	20	1	300	300					1	20	6TH FLOOR FSD	8
9	ROOF FSD	20	1			150	0			1	20	SPARE	10
11	SPARE	20	1					0	0	1	20	SPARE	12
				CONNECTED LOAD PHASE TOTALS (VA)									
				950		1150		600					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Equipment	2.7	1.00	2.7
TOTAL:	2.7		2.7
LOAD (AMPS):	7.5		7.5

DEMAND LOAD	2.7 KVA
SPARE CAPACITY	33.3 KVA
SPARE CAPACITY	92.5 AMPS
SPARE CAPACITY	93 %
PHASE BALANCE	
A TO B	83 %
B TO C	52 %
C TO A	63 %

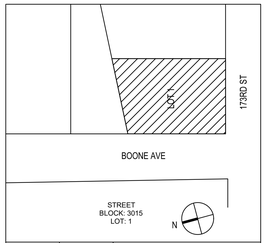
PANEL KP

VOLTAGE (L–N):	120	ENCLOSURE TYPE:	----
VOLTAGE (L–L):	208	MOUNTING:	SURFACE
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	10000
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	----
MAIN O.C. DEVICE (A):	MLO		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A		PHASE LOADS (VA) B		PHASE LOADS (VA) C		POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	KITCHEN EQUIPMENT	20	1	1500	1500					1	20	KITCHEN EQUIPMENT	2
3	KITCHEN EQUIPMENT	20	1			1500	1500			1	20	KITCHEN EQUIPMENT	4
5	KITCHEN EQUIPMENT	20	1					1500	1500	1	20	KITCHEN EQUIPMENT	6
7	KITCHEN EQUIPMENT	20	1	1500	1500					1	20	KITCHEN EQUIPMENT	8
9	KITCHEN EQUIPMENT	20	1			1500	1500			1	20	KITCHEN EQUIPMENT	10
11	KITCHEN EQUIPMENT	20	1					1500	1500	1	20	KITCHEN EQUIPMENT	12
13	TRASH RM GFI	20	1	180	0					1	20	SPARE	14
15	SPARE	20	1			0	0			1	20	SPARE	16
17	SPARE	20	1					0	0	1	20	SPARE	18
19	SPARE	20	1	0	0					1	20	SPARE	20
21	SPARE	20	1			0	0			1	20	SPARE	22
23	SPARE	20	1					0	0	1	20	SPARE	24
25	SPARE	20	1	0	0					1	20	SPARE	26
27	SPARE	20	1			0	0			1	20	SPARE	28
29	SPARE	20	1					0	0	1	20	SPARE	30
				CONNECTED LOAD PHASE TOTALS (VA)									
				6180		6000		6000					

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Receptacles (0 – 10 KVA)	10.0	1.00	10.0
Receptacles (Over 10 KVA)	8.2	0.50	4.1
TOTAL:	18.2		14.1
LOAD (AMPS):	50.5		39.1

DEMAND LOAD	14.1 KVA
SPARE CAPACITY	21.9 KVA
SPARE CAPACITY	60.9 AMPS
SPARE CAPACITY	61%
PHASE BALANCE	
A TO B	97 %
B TO C	100 %
C TO A	97 %



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

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Bronx, New York 10460

DRAWING TITLE
PANEL SCHEDULE

Seal & Signature:

DATE:	06/06/19
PROJECT #:	19-0514
DWG SCALE:	AS SHOWN
DRAWING NO.:	E-303.00
SHEET	XX OF XX

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Dialog Central Panel # Capacity w/ # Relays	Dialog Central Panel # Capacity w/ # Relays
Dialog Remote Panel # Capacity w/ # Relays	Dialog Remote Panel # Capacity w/ # Relays
DRC	WRC-3160 Dialog Room Controller
DRC2	WRC-3260 2-Channel Dialog Room Controller
OS DRC	WORSDG1-R-T Dialog Ceiling Mount Standard Range Occupancy Sensor
OS DRC	WORXDG1-R-T Dialog Ceiling Mount Extended Range Occupancy Sensor
IPH DRC-1A	WPP-INT Dialog Ceiling Mount Interior Photosensor
D LV1S	WSW-3511 Dialog 1 Button Low Voltage Switch Station
D LV4S	WSW-3514 Dialog 4 Button Low Voltage Switch Station
D LV8S	WSW-3528 Dialog 8 Button Low Voltage Switch Station
D LVDS	WSD-3501 Dialog Low Voltage Dimmer Switch Station
D LVKS	WSK-3502 Dialog Low Voltage Key Switch Station
OS S	WORSDG1-P-N Dialog Ceiling Mount Standard Range Occupancy Sensor
OS S	WORXDG1-P-N Dialog Ceiling Mount Extended Range Occupancy Sensor
DS I	WPS-3711 Dialog Ceiling Mount Interior Photosensor
DS E	WPS-3741B Dialog Ceiling Mount Exterior Photosensor
OS	WOWCDG1-P-N Dialog Wall Mount Occupancy Sensor
LV1S	WSR-8711 1 Button Low Voltage Switch Station
1 PP 120/277V	WP-PP20-D 1 Pole Power Pack, 120/277V
L OS P	WOSSDU1-P-VW Switch Mount Occupancy Sensor, Line Voltage 120/277V, 1 Pole, Photo
LV OS R	WORSDD1-R-N Ceiling Mount Occupancy Sensor, Low Voltage, 1 Pole, Relay, Standard Range
LV OS PR	WORXDD2-PR-N Ceiling Mount Occupancy Sensor, Low Voltage, 2 Pole, Photo, Relay, Extended Range
EPC	EPC-A-1 EM Shunt Relay 120V/277V
L VS P	WVSSDU1-P-VW Switch Mount Vacancy Sensor, Line Voltage 120/277V, 1 Pole, Photo

FOR FURTHER INFORMATION IN REGARDING TO LIGHTING FIXTURES CONTACT: PHIL THOMAS OF STAN DEUTSCH ASSOCIATES TEL. 718-381-8100 EXT.213 FAX: 718-482-0541

GENERAL ELECTRICAL NOTES

1. ALL WIRING SHALL BE IN COMPLIANCE WITH THE 2008 EDITION OF THE NATIONAL ELECTRIC CODE WITH NYC AMENDMENTS AND SPECIFICATIONS ROMEX (TYPE NM) IS PROHIBITED.
2. ELECTRICAL CONTRACTOR SHALL FILE WITH ALL AGENCIES AND OBTAIN ALL APPROVALS FOR THE WORK UNDER THIS CONTRACT. THE ELECTRICAL CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH THE FILINGS.
3. ALL EQUIPMENT FEED TERMINATIONS AND MOUNTING HEIGHTS SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER.
4. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER DISCIPLINES AND GENERAL CONTRACTOR.
5. LOCATION OF MECHANICAL EQUIPMENT SHALL BE FIELD COORDINATED WITH MECHANICAL CONTRACTOR PRIOR TO ROUGHING-IN.
6. ALL CONDUCTORS SHALL BE COPPER, THHN/THWN, RATED 90°, 600 VOLT (AS PER TABLE 310.16 NEC 2005). MINIMUM SIZE NO. 12 AWG. ALUMINUM CABLE IS PROHIBITED.
7. ALL 15 AND 20 AMPERE BRANCH CIRCUIT OVER 100 FEET SHALL BE WIRED WITH NUMBER 10 AWG WIRING. ALL 15 AND 20 AMPERE BRANCH CIRCUIT OVER 200 FEET SHALL BE WIRED WITH NUMBER 8 AWG WIRING.
8. ARMORED CABLE (BX) PERMITTED TO BE RUN CONCEALED INDOORS (ABOVE CEILING, BEHIND WALLS) AS PER CODE.
9. ALL CONDUIT INDOORS (WHERE REQUIRED BY CODE) SHALL BE EMT (ELECTRIC METAL TUBING). ALL CONDUIT OUTDOORS SHALL BE RIGID GALVANIZED STEEL.
10. EXACT LOCATION OF LIGHTING FIXTURES AND INSTALLATION DETAILS SHALL BE AS SHOWN ON THE LATEST ARCHITECTURAL REFLECTED CEILING PLAN. REVIEW PRIOR TO ROUGHING-IN.
11. GENERAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL NEW CEILING MTD EQUIPMENT WITH ALL OF THE VARIOUS TRADES.
12. VERIFY ALL CEILING TYPES AND MATERIALS PRIOR TO ORDERING LIGHT FIXTURES.
13. SUPPORT EACH LIGHTING FIXTURE (WITH CHAINS WHEN REQUIRED BY CODE) INDEPENDENTLY FROM THE SUSPENDED CEILING AND COORDINATE ITS LOCATION WITH THAT OF OTHER EQUIPMENT TO AVOID CONFLICTS.
14. EMERGENCY LIGHT FIXTURES SHALL HAVE AN UNSWITCHED HOT FEED TO THEIR BATTERY PACK.SEE DETAIL.
15. SEE ARCHITECTURAL PLANS FOR LIGHT FIXTURE SPECIFICATIONS.
16. ALL BRANCHES SHALL BE WIRED WITH AN INDIVIDUAL GREEN GROUND WIRE.
17. ALL ELECTRICAL DEVICES (SWITCHES, RECEPTACLES, PLUGS, COVER PLATES) TO BE DECORA PLUS BY LEVITON. COLORS TO BE SELECTED BY ARCHITECT.
18. ELECTRICAL CONTRACTOR TO FURNISH & INSTALL CONDUIT WITH DRAG LINE FOR PULLING OF TELEPHONE CO. WIRES. VERIFY REQUIREMENTS IN THE FIELD.
19. ELECTRICAL CONTRACTOR TO FURNISH & INSTALL CONDUIT WITH DRAG LINE FOR PULLING OF DATA WIRES. VERIFY ALL REQUIREMENTS IN THE FIELD.
20. ELECTRICAL CONTRACTOR TO FURNISH + INSTALL ALL CONTROL WIRING FOR ALL MECHANICAL EQUIPMENT. (NOT SHOWN ON THESE PLANS). VERIFY EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR TO COORDINATE WORK WITH THEM.
21. THE CONTRACTOR SHALL VISIT THE PREMISES TO DETERMINE EXISTING CONDITIONS AND COMPARE SAME WITH DRAWINGS AND SATISFY HIMSELF OF ALL CONDITIONS PRIOR TO THE SUBMISSION OF A BID PROPOSAL. NO ALLOWANCE WILL BE MADE FOR FAILURE TO COMPLY WITH THESE REQUIREMENTS AND BID PROPOSAL SHALL BE CONSTRUED AS EVIDENCE HE HAS DONE SO.

MECHANICAL AND PLUMBING EQUIPMENT WIRING NOTES

1. ALL EQUIPMENT TO BE PROVIDED AND INSTALLED BY CONTRACTOR.
2. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL DEVICES ASSOCIATED WITH ALL MECHANICAL AND PLUMBING EQUIPMENT.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE POINT-TO-POINT CONTROL WIRING DIAGRAMS TO THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL BACK BOXES, CONDUIT AND CONTROL WIRING. ELECTRICAL CONTRACTOR SHALL LEAVE 3 FT CONTROL WIRE WHIPS AT ALL CONTROL DEVICE LOCATIONS. CONTRACTOR SHALL MAKE ALL FINAL TERMINATION AND PERFORM FINAL INSTALLATION OF ALL CONTROL DEVICES.
4. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LINE VOLTAGE COMPONENTS REQUIRED FOR THE PROPER CONNECTION AND OPERATION OF THE HVAC EQUIPMENT. ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL TERMINATION ON ALL LINE VOLTAGE COMPONENTS.

ELECTRICAL LEGEND

- CONDUIT AND WIRING CONCEALED IN CLG OR WALLS. BRANCH CIRCUIT WIRING. THE NUMBER OF TICS INDICATES THE NUMBER OF CONDUCTORS EXCLUDING GROUNDS.
- CONDUIT AND WIRING EXPOSED ON CLG OR WALLS. BRANCH CIRCUIT WIRING. THE NUMBER OF TICS INDICATES THE NUMBER OF CONDUCTORS EXCLUDING GROUNDS.
- HP–35 — HOME RUN TO POWER PANEL, THE NUMBER OF TICS INDICATES THE NUMBER OF CONDUCTORS EXCLUDING GROUNDS. NOMENCLATURE INDICATES THE POWER PANEL AND CIRCUIT BREAKER NUMBER (POWER PANEL HP, CIRCUIT BREAKER NUMBER 35).
- INDICATES INDIVIDUAL HOT, NEUTRAL AND GROUND CONDUCTORS.
- GFI — DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE OUTLET, 20 AMP 2P 3W 125 VOLT GROUNDING, WALL MTD. PASS & SEYMOUR 2097L
- DUPLEX RECEPTACLE OUTLET 15 AMP 2P 3W 125 VOLT. PASS & SEYMOUR 26252 LETTER NEXT TO RECEPTACLES: "PC" DENOTE FOR COMPUTER "D" DENOTES DEDICATED "C" DENOTE CONTROLLED RECEPTACLE VIA RELAY PANEL.
- DOUBLE DUPLEX RECEPTACLE OUTLET 20 AMP 2P 3W 125 VOLT. (2) PASS & SEYMOUR 26252
- SIMPLEX CONVENIENCE RECEPTACLE OUTLET 20 AMP 2P 3W 125 VOLT, GROUNDING, WALL MTD. PASS & SEYMOUR 26361 NEMA 5-20R
- SIMPLEX CONVENIENCE RECEPTACLE OUTLET 20 AMP 2P 3W 250 VOLT, GROUNDING, WALL MTD. PASS & SEYMOUR 26861 NEMA 6-20R
- DUPLEX CONVENIENCE RECEPTACLE OUTLET 20 AMP 2P 3W 125 VOLT, GROUNDING, WALL MTD. PASS & SEYMOUR 26252
- SIMPLEX CONVENIENCE RECEPTACLE OUTLET 30 AMP 2P 3W 250 VOLT, GROUNDING, WALL MTD. WIRE WITH 2#10+12 GND-3/4"C PASS & SEYMOUR 3801 NEMA 6-30

- EM — INDICATES LIGHT FIXTURE WITH EMERGENCY BATTERY BACKUP
- WP — WEATHER PROOF ENCLOSURE.
- ATC — INDICATES ASTRONOMICAL TIME CLOCK
- S — SINGLE POLE SWITCH, LOWER CASE LETTER INDICATES LIGHTING CIRCUIT THAT IS BEING CONTROLLED. PASS & SEYMOUR 2601LA
- S_3 — THREE WAY TOGGLE SWITCH 15A. PASS & SEYMOUR 2603LA
- S_P — SINGLE POLE SWITCH WITH PILOT LIGHT. PASS & SEYMOUR 2629LR
- S_T — MANUAL SWITCH WITH STANDARD TRIP THERMAL UNIT. EQUAL TO SQ D CLASS 2510 TYPE KG1A (NEMA 1 ENCLOSURE).
- UNFUSED DISCONNECT SWITCH (NEMA 1 FOR INDOOR AND NEMA 3R FOR OUTDOOR).
- FUSED DISCONNECT SWITCH (NEMA 1 FOR INDOOR AND NEMA 3R FOR OUTDOOR).
- COMBINATION STARTER AND DISCONNECT (NEMA 1 FOR INDOOR AND NEMA 3R FOR OUTDOOR).
- COMBINATION TELEPHONE/DATA JACK IN ONE SINGLE GANG FACE PLATE. ORTRONICS OR-40300570P-88/ OR-40300670P-88/ OR-TJ5E00-88
- TELEPHONE JACK ORTRONICS OR-40300670P-88/ OR-TJ5E00-88
- ELECTRICAL JUNCTION BOX.
- TELEVISION OUTLET FLUSH WALL MOUNTED 2-1/8"x4 INCH JUNCTION BOX.
- PP — FLUSH WALL MOUNTED APARTMENT PANELBOARD WITH BRANCH CIRCUIT BREAKERS, REFER TO PANEL SCHEDULES

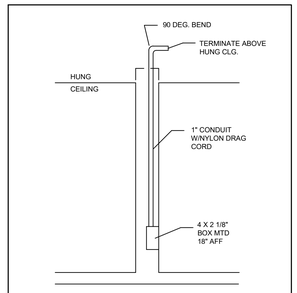
FOR FURTHER INFORMATION IN REGARDING TO RECEPTACLES CONTACT: PHILLIP HILL OF LEGRAND TEL. 315-378-9400

FOR FURTHER INFORMATION IN REGARDING TO LOW VOLTAGE CONTACT: CALL ORTRONICS (TECH SERVICES) TEL. 877-599-5393

LIGHTING FIXTURE SCHEDULE

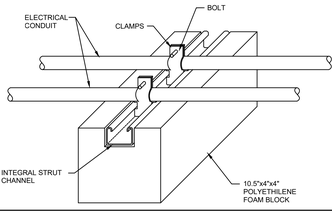
TYPE	MANUFACTURER AND MODEL No.	No. OF LAMPS	LAMP TYPE	VOLTAGE	DRIVER	WATTAGE	No. OF FIXTURES
L-1	2X2 LAY IN FIXTURE LITHONIA 2GTL2 LP835	1	LED	120	LED	39.6W	467
L-2	RECESSED CAN FIXTURE LITHONIA 6BPMW 30K 93CRI	1	LED	120	LED	10.25W	8
L-3	LINEAR FIXTURE (4') WITH BUILT–IN OCCUPANCY SENSOR LITHONIA LBL4 LP835 LSXR10	1	LED	120	LED	32W	55
L-4	LINEAR FIXTURE (2') LITHONIA LBL2 LP835I	1	LED	120	LED	23W	3
L-5	SUSPENDED GYM LIGHT LITHONIA JCBL 12000LM ACCR 30K 90CRI	1	LED	120	LED	84W	20
L-6	EXTERIOR WALL MOUNT LITHONIA WST–LED–P1–27K–VW–MVLOT–ODVTXD	1	LED	120	LED	12W	14
L-7	EXTERIOR SURFACE MOUNT LITHONIA OLCFM 15 WH	1	LED	120	LED	16.6W	3
L-8	EXIT LIGHT LITHONIA LIGHTING EGDNY 1REL	1	LED	120	LED	3W	20

NOTES: ALL EXTERIOR LIGHTING WIRED TO ASTRONOMICAL TIME CLOCK
ALL ONELINE LINES SHALL BE INDIVIDUALLY WIRED.
100% OF PERMANENTLY INSTALLED FIXTURES PROVIDED WITH HIGH EFFICIENCY LAMPS.



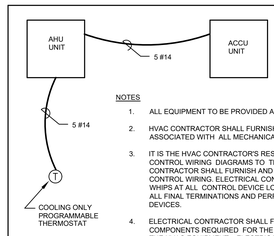
COMPUTER/TELEPHONE JUNCTION BOX DETAIL

NOT TO SCALE



SHOWN DETAIL IS AS PER FASTENING PRODUCTS PIPE PIER BLOCK DETAIL (CATALOG No. 64704040PD) PHONE No. (800)333-0852

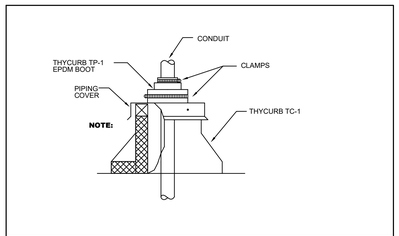
FLAT ROOF CONDUIT SUPPORT DETAIL



NOTES

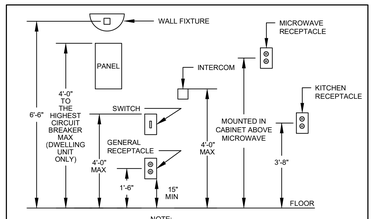
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SPLIT SYSTEM CONTROL WIRING DETAIL



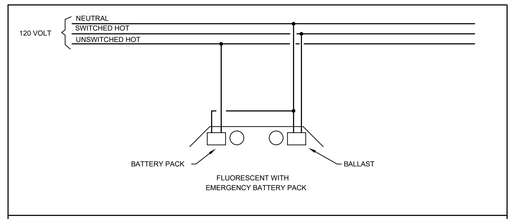
3-1/2" DIAMETER COLLARS ACCOMMODATE CONDUITS 1/2" TO 2-1/2" NORM.
6-1/2" DIAMETER COLLARS ACCOMMODATE CONDUITS 3" TO 5" NORM.

CONDUIT FLASHING THRU ROOF DETAIL



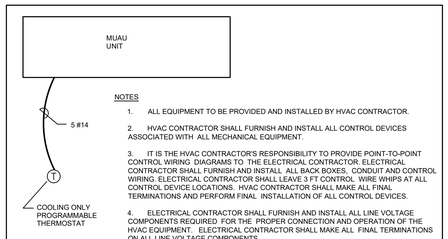
NOTE:
HEIGHTS SHOWN ARE FOR REFERENCE ONLY. THE HEIGHTS SHOWN ON PLANS OR ARCHITECT DRAWINGS PREVAIL.

DEVICE MOUNTING HEIGHTS



WIRING DIAGRAM FOR EMERGENCY LIGHTING

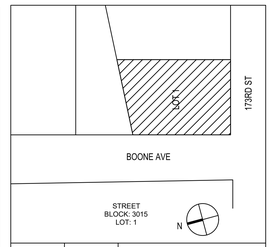
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HVAC CONTROL WIRING DETAIL



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

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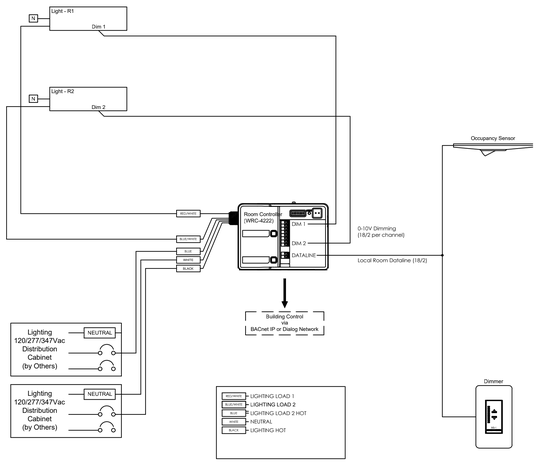
DRAWING TITLE
ELECTRICAL NOTES AND DETAILS

Seal & Signature:

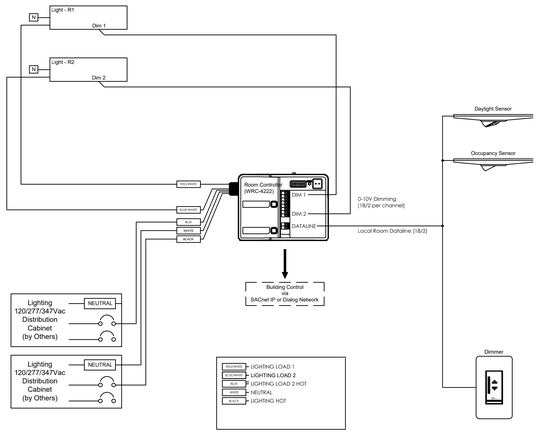
DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:
E-400.00
SHEET XX OF XX

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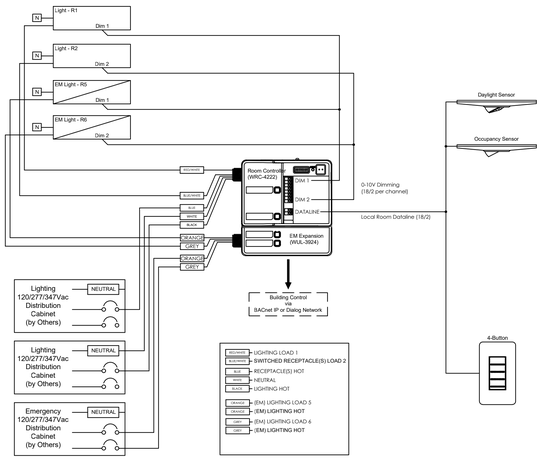
Office Typical B



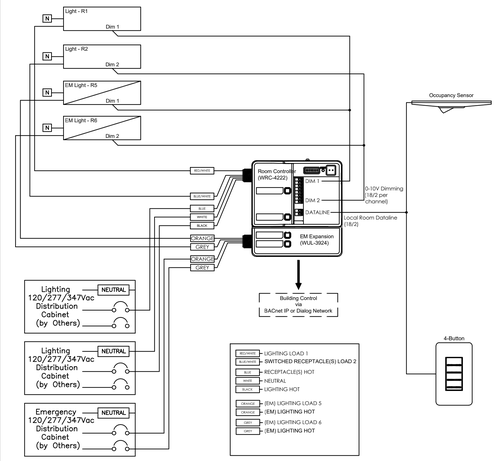
Office Typical A



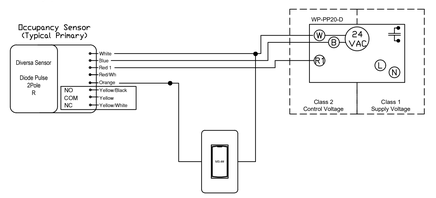
Classroom Typical with Daylighting



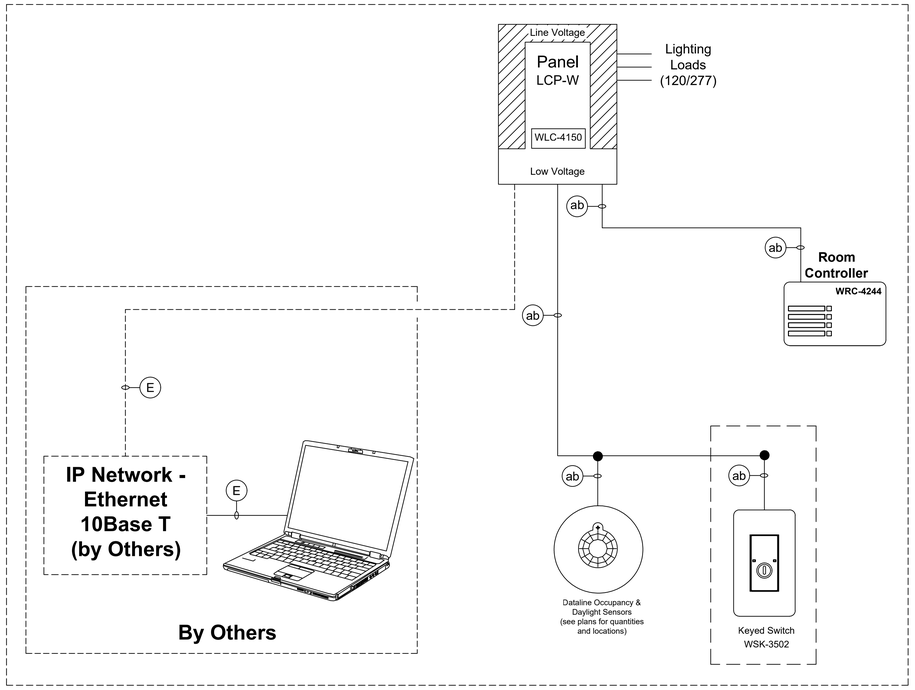
Classroom Typical w/o Daylighting



Typical Restroom without EM



Lighting Control Central Panel



Legend:

(ab) Use 2x #18 AWG Solid
Recommended cable is LVT or Bell wire

(#) Number of Conductors required (Use #18AWG)
Conductor counts DO NOT include any spares.
It is recommended to add a minimum of 10%.

(E) Standard Cat 5 Cable with RJ-45 Connector

General Notes:

Note: Do not connect field devices belonging to another system to this system.

Note: Connect Dialog switch(es) and sensor(s) to the dataline terminals in the associated relay panels. See connection schematic WRD-3408 & Devices.

Note: Connect Dialog switch(es) and occupancy sensor(s) to the dataline terminals in the associated relay panels. See connection schematic WR-3400 & Devices.

Note: Connection of Dialog switches and sensors as shown is diagrammatic only. Wiring for Dialog switches and sensors may be daisy chained, "T" tapped and connected in any sequence to any relay panel dataline terminal (on system 1).

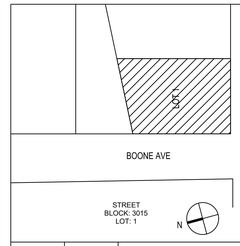
Note: Recommended Dialog device interconnections and connections to relay panels are shown. Conditions on site may require that devices be connected to a different panel. Maximum output from amplifier or WLC-3150(NN) is 400mA.
Perform load calculation as outlined in Dialog Lighting Control System Overview or confirm with manufacturer if quantity of field devices connected to a relay panel is significantly greater than what is shown.

Note: Please confirm switch labelling. Please note that the maximum text string length for each label is 18 characters for all lower case and 14 characters for all upper case. Descriptions shown here may be abbreviated.

Field Device current consumption:
4mA per switch
15mA per exterior photosensor
10mA per occupancy sensor
5mA per DRC

Provide Factory Authorized Services:
Pre-wire meeting to coordinate site conditions with the contractor
Start-up visit to confirm successful installation, adjust sensors, program initial settings and train end user staff
One return visit to adjust programming after review by Ownership and the Design Team

For Additional Information Contact:
SDA Controls controls@sdalighting.com
718-361-9150
Chuck Cameron chuck.cameron@sdalighting.com
917-940-2448



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

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DOB XXXXXX

PROJECT NAME
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Bronx, New York 10460

DRAWING TITLE
ELECTRICAL NOTES AND DETAILS

Seal & Signature:

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DWG SCALE: AS SHOWN
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E-401.00
SHEET XX OF XX

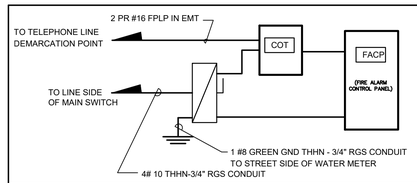
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FIRE ALARM SYSTEM NOTES

1. NO CONDUITS ARE TO ENTER THE TOP OF A FIRE ALARM CONTROL PANEL REGARDLESS OF SYSTEM TYPE OR SIZE.
2. CEILING MOUNTED SMOKE DETECTORS MUST BE MOUNTED AT LEAST 3 FEET FROM SUPPLY AIR REGISTERS.
3. ALL CEILING MOUNTED DEVICES MUST BE SECURELY FASTENED TO THE BUILDING STRUCTURE AND NOT TO THE CEILING GRID. FURTHERMORE ALL WALL-MOUNTED DEVICES SHALL BE SECURELY MOUNTED IN PLACE. PLASTIC ANCHORS ARE NOT ACCEPTABLE.
4. ALL FIRE ALARM PANELS, JUNCTION BOX COVERS, ETC. SHALL BE PAINTED "FIRE DEPARTMENT RED".
5. DEVICE LOCATIONS MUST BE READILY ACCESSIBLE TO ALLOW FOR MAINTENANCE AND REPAIR.
6. DUCT MOUNTED SMOKE DETECTORS SHALL BE MOUNTED AND LOCATED ON THE DUCTWORK IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. ANY DUCT SMOKE DETECTORS MOUNTED ABOVE FINISHED CEILINGS OR IN REMOTE LOCATIONS SHALL BE FURNISHED WITH A REMOTE LAMP.
7. MANUAL STATIONS SHALL BE MOUNTED 48 INCHES ABOVE THE FINISHED FLOOR TO THE CENTER OF THE HANDLE.
8. MANUAL PULL STATIONS SHALL BE PAINTED "FIRE DEPARTMENT RED". ALL MANUAL PULL STATIONS SHALL BE INSTALLED SO THAT THEY KEPT UNOBSTRUCTED AT ALL TIMES.
9. THE NYC FIRE DEPARTMENT SHALL APPROVE THE PLANS PRIOR TO START OF ANY WORK.
10. ALL WIRING, EXCEPT AS NOTED OTHERWISE, SHALL BE FPLP 150 DEGREE CELSIUS, LABELED "NYC CERTIFIED" AND INSTALLED IN ACCORDANCE WITH NYC ELECTRICAL CODE,. FURTHERMORE, ALL WIRING USED MUST BE OF THE PROPER INSULATION FOR THE TYPE OF SYSTEM BEING INSTALLED AND APPROVED FOR USE IN NYC.
11. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2014 NYC CONSTRUCTION CODES AND WITH NEW YORK CITY ELECTRICAL CODE. EQUIPMENT/DEVICE USED SHALL BE APPROVED MANUFACTURERS AND ARE LISTED FOR THEIR USE.
12. DO NOT RUN FIRE ALARM CABLE IN THE SAME RACEWAY WITH NON FIRE ALARM CABLE.
13. AVOID INSTALLING FIRE ALARM CABLES NEAR SOURCES OF ALTERNATING CURRENT (LIGHTING, POWER, ETC.).
14. ALL FIRE ALARM PANELS SHALL BE GROUNDED USING A MINIMUM #8 AWG, GREEN THHN OR EQUIVALENT, CONNECTED TO STREET SIDE OF COLD WATER MAIN WITH AN APPROVED CLAMP OR LUG AND INSTALLED IN 3/4 INCH MINIMUM EMT/RGS IN ACCORDANCE WITH THE NYC ELECTRICAL CODE.
15. FIRE ALARM EQUIPMENT SHALL BE POWERED THROUGH A DISCONNECT SWITCH WITH MEANS OF INTERRUPTING THE UNFUSED NEUTRAL AHEAD OF THE MAIN SERVICE SWITCH. DISCONNECT SWITCH TO BE LOCATED WITHIN 5 FEET OF THE CONNECTION POINT, PAINTED RED AND SUPPLIED WITH A LOCK. ALL WIRING SHALL BE MINIMUM #10 AWG THHN OR EQUIVALENT RUN IN 3/4 INCH MINIMUM EMT/RGS AND IN ACCORDANCE WITH NYC REQUIREMENTS. FUSES SHALL BE CARTRIDGE TYPE WITH A SOLID BAR COPPER NEUTRAL. ADDITIONAL FUSES AND NEUTRAL SHALL BE PROVIDED AS REQUIRED FOR BOOSTER POWER SUPPLY.
16. OBSERVE ALL POLARITY ON ALL FIRE ALARM CIRCUITS. NO TEE TAPPING IS PERMITTED ON ALARM INDICATING CIRCUITS (HORNS, STROBES, SPEAKERS, ETC.).
17. ALL FIRE ALARM WIRE SHALL BE CLEARLY LABELED IN JUNCTION BOXES AND CABINETS. FURTHERMORE CONDUCTORS IN CABINETS SHALL BE FORMED SO THAT THEY DROP OFF DIRECTLY OPPOSITE TO ITS TERMINAL CONNECTION. ALL TERMINALS SHALL BE NUMBERED AND LABELED IN EVERY CABINET.
18. ANY REQUIREMENTS FOR SHIELDING CERTAIN CONDUCTORS OR RUNNING THEM IN SEPARATE RACEWAYS SHALL BE AS RECOMMENDED BY THE MANUFACTURERS DOCUMENTATION.
19. ALL WIRING TO BE CHECKED TO INSURE THAT THEY ARE FREE OF ANY OPENS, SHORTS OR GROUNDS.
20. ALL FIRE ALARM PANELS, CABINETS CENTRAL OFFICE TRANSMITTER, BOOSTER POWER SUPPLY, FUSE CUTOUT PANELS AND DATA GATHERING PANELS SHALL BE CLEARLY LABELED USING A LAMINATE TYPE ENGRAVED LABEL AS TO WHAT THEY ARE AND WHAT FLOOR THEY SERVE AS APPLICABLE.
21. LOCATIONS OF ALL FIRE ALARM EQUIPMENT SHALL BE SUBJECT TO NEW YORK CITY DEPARTMENT OF BUILDING AND FIRE DEPARTMENT APPROVAL. NO CHANGE OR MODIFICATION TO THE SYSTEM OR PLANS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD. IF ANY SUBSTANTIAL CHANGES ARE MADE TO THE DRAWINGS PRIOR TO OR DURING INSTALLATION, AS BUILT PLANS SHALL BE PREPARED BY THE ENGINEER AND FILED WITH THE APPROPRIATE NYC AGENCIES FOR FINAL ACCEPTANCE.
22. ALL HORNS AND STROBES SHALL BE CIRCUITED TO COMPLY WITH THE 60/40 RULE ON SEPARATE "A" AND "B" CIRCUITS DEDICATED TO EACH FLOOR IN THE BUILDING.
23. BATTERY BACK UP SHALL BE PROVIDED FOR MINIMUM OF 24 HOURS STANDBY FOLLOWED BY 45 MINUTES FULL LOAD OF SYSTEM PLUS A MINIMUM OF 25% SPARE CAPACITY.

FIRE ALARM CONTRACTOR'S RESPONSIBILITY

1. CONTRACTOR TO BE LICENSED AND INSURED AS A FIRE ALARM CONTRACTOR IN THE CITY OF NEW YORK.
2. IT SHALL BE THE FIRE ALARM CONTRACTORS OBLIGATION AND COST TO FURNISH PLANS (SIGNED/SEALED BY A NYS PROFESSIONAL ENGINEER SPECIALIZING IN FIRE ALARM SYSTEMS), FILE SAID PLANS WITH BOTH THE N.Y.C. DEPARTMENT OF BUILDINGS AND FIRE DEPARTMENT AND SECURE ALL NECESSARY APPROVALS AND PERMITS PRIOR TO INSTALLATION.
3. FIRE ALARM CONTRACTOR SHALL PURCHASE AND INSTALL ALL REQUIRED DEVICES, WHETHER INDICATED OR NOT, FOR A COMPLETE AND OPERATIONAL SYSTEM.
4. THE LOCAL FIRE DEPARTMENT AND BUILDING ENGINEER SHALL BE NOTIFIED 10 DAYS PRIOR TO FIRE ALARM SYSTEM SHUT DOWN.
5. THE FIRE ALARM SYSTEM SHALL BE LEFT IN OPERATIONAL CONDITION AT THE END OF EACH WORK DAY.
6. FIRE ALARM CONTRACTOR SHALL CLEAN ALL DEBRIS IN SMOKE DETECTOR SENSORS PRIOR TO TURNOVER OF SYSTEM TO OWNER.
7. ALL SMOKE DETECTORS SHALL BE KEPT IN COMPLETE OPERATIONAL CONDITION DURING PROJECT.
8. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR TIE-IN OF ALL DEVICES TO EXISTING FIRE ALARM SYSTEM CONTROL PANEL INCLUDING ALL NECESSARY SUB PANELS, EXTENDEDER PANELS, ADDITIONAL MODULES, RELAYS, ETC.
9. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR SYSTEM PROGRAMMING AS MAY BE REQUIRED FOR NEW DEVICES.
10. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR SYSTEM PRE-TESTING PRIOR TO THE NEW YORK CITY FIRE DEPARTMENT INSPECTION.
11. FIRE ALARM CONTRACTOR SHALL PREPARE AND FILE NECESSARY FORMS (I.E. A-433) WITH THE NYC FIRE DEPARTMENT TO SCHEDULE THE NECESSARY INSPECTION(S) AND OBTAIN FINAL CERTIFICATION OF SYSTEM INSTALLATION.
12. THE FIRE ALARM CONTRACTOR IS REQUIRED TO PROVIDE A COMPLETELY OPERATIONAL FIRE ALARM SYSTEM WHICH SATISFIES ALL REQUIREMENTS OF THE NEW YORK CITY ADMINISTRATIVE CODE. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ANY MODIFICATIONS TO THE SYSTEM DESIGN REQUIRED BY THOSE REGULATORY AGENCIES, SATISFY THE CONTROLLED INSPECTION REQUIREMENT FOR THIS SYSTEM (27-977), AND SATISFY THE FIRE DEPARTMENT ACCEPTANCE TEST, IN ORDER TO OBTAIN THE REQUIRED FINAL REGULATORY AGENCY APPROVAL FOR SYSTEM USE.
13. UPON COMPLETION OF THE WORK, THE FIRE ALARM CONTRACTOR SHALL OBTAIN THE REQUIRED SIGN-OFFS FROM THE NYC DEPARTMENT OF BUILDINGS AND LETTER OF APPROVAL FROM THE NYC FIRE DEPARTMENT, INCLUDING ALL RECONSIDERATIONS, SELF CERTIFICATIONS, ETC. REQUIRED TO OBTAIN THE ABOVE.



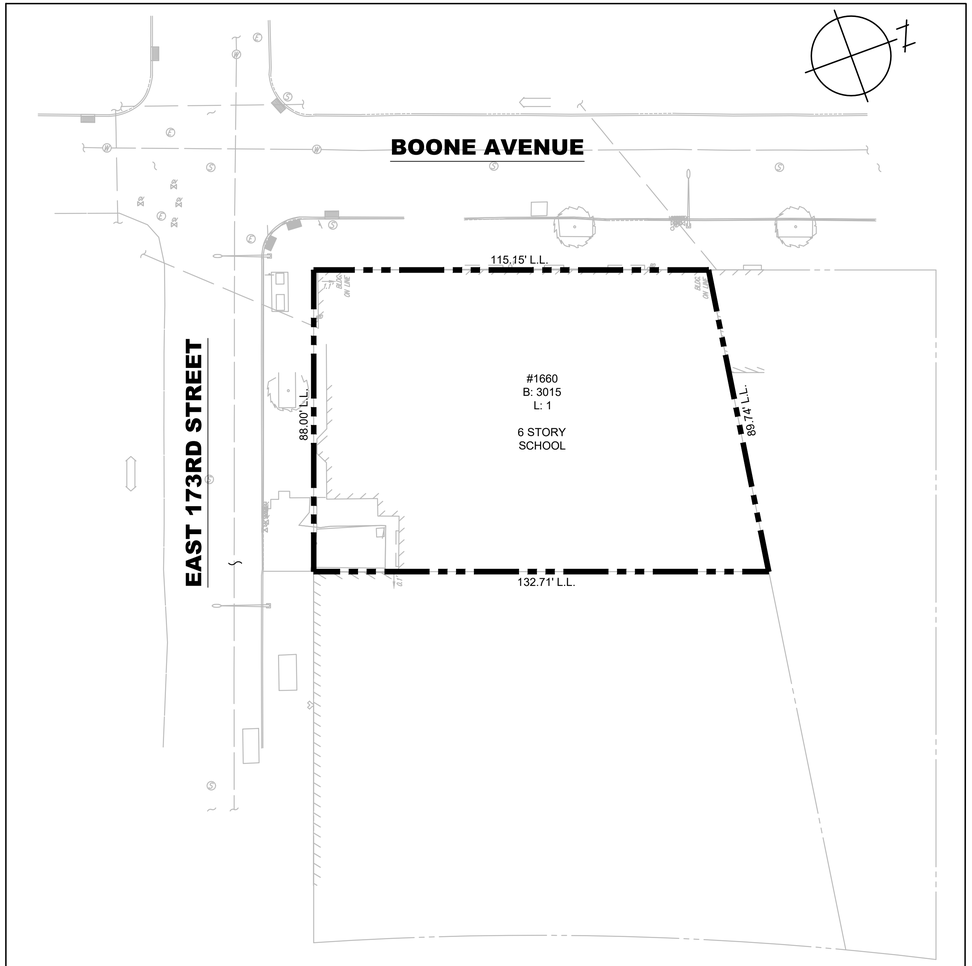
FIRE ALARM CONTROL PANEL

FIRE ALARM INPUT/OUTPUT MATRIX

		Active Audible/Visual Alarm at FACP	Active Audible/Visual Trouble at FACP	Active Audible/Visual Supervisory at FACP	Send Alarm Signal to CO	Send Trouble Signal to CO	Send Supervisory Signal to CO	Activate Temporal 3 Horn Pattern	Activate All Visual Devices.	Active Fan Shutdown	Open Damper	Open Damper at Top of Stairwell	Activate Elevator Recall
Initiating Devices	Manual Pull Station	x			x			x	x	x			
	Elevator Lobby, EMR Smoke Detector	x			x			x	x	x			x
	Top of Shaft Smoke Detector	x			x			x	x	x	x		x
	Area Smoke Detector	x			x			x	x	x			
	Top of Stair Smoke Detector	x			x			x	x	x		x	
	Duct Smoke Detector	x			x			x	x	x			
	Heat Detector	x			x			x	x	x			
	Waterflow	x			x			x	x	x			x
	Sprinkler Tamper			x			x						
	Hi/low Air Switch			x			x						
	Pressure Switch			x			x						
	Fire Pump Running			x			x						
	Fire Pump Power Fail			x			x						
	Fire Pump Reversal			x			x						
System Faults	Open Circuit		x			x							
	Grounded Wire		x			x							
	A/C Failure		x			x							
	Battery Fault		x			x							
	Wire to Wire Short		x			x							

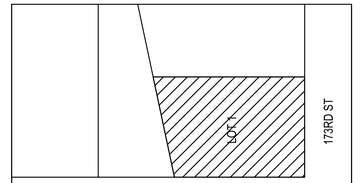
FIRE ALARM LEGEND

FACP	FIRE ALARM CONTROL PANEL
S	IONIZATION SMOKE DETECTOR. (P-PHOTOELECTRIC)
H	HEAT DETECTOR
CO	CARBON MONOXIDE DETECTOR
FS	WATER FLOW SWITCH (F.B.O.)
TS	TAMPER SWITCH (F.B.O.)
	FUSIBLE DISCONNECT SWITCH
	END OF LINE DEVICE
F	MANUAL PULL STATION
COT	CENTRAL OFFICE TRANSMITTER
CR	CONTROL RELAY
DMD	MOTORIZED DAMPER OPEN STATUS CONTACTOR (F.B.O)
F.B.O.	FURNISHED BY OTHERS
R	FAN SHUTDOWN RELAY
M	MOTORIZED FIRE SMOKE DAMPER
R	ELEVATOR RECALL
FA	FIRE ALARM STROBE
	FIRE ALARM SPEAKER STROBE
FAA	FIRE ALARM ANNUNCIATOR
MM	ADDRESSABLE MONITOR MODULE



PLOT DIAGRAM

SCHEMATIC ONLY



	9/20/19	90% CD
	5/22/19	LEASE EXHIBIT

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DRAWING TITLE

FIRE ALARM NOTES & DETAILS

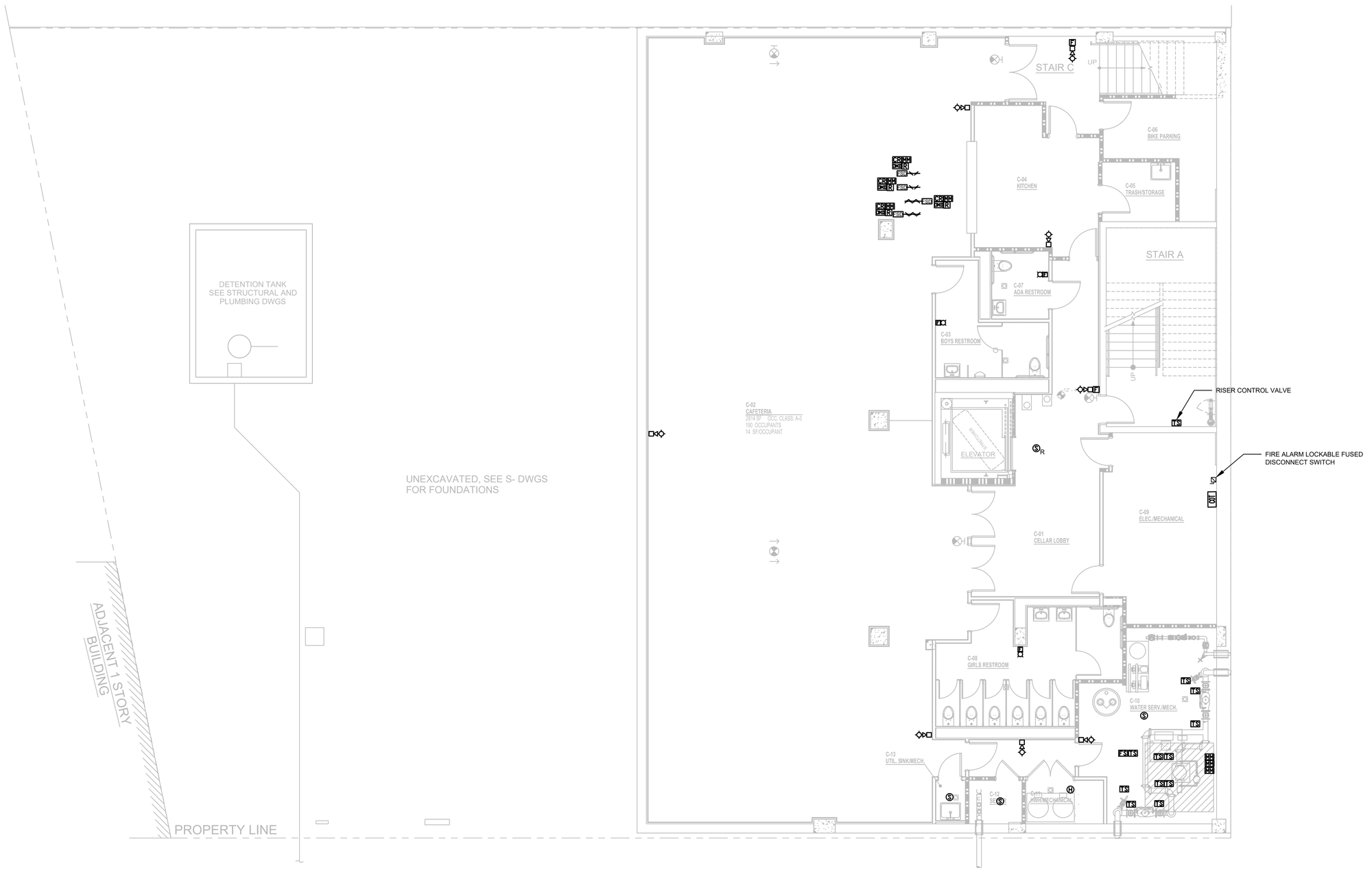
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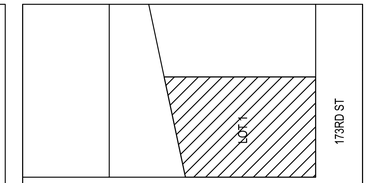
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CELLAR PLAN - FIRE ALARM

SCALE: 3/16" = 1'-0"



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DRAWING TITLE

CELLAR FIRE ALARM PLAN

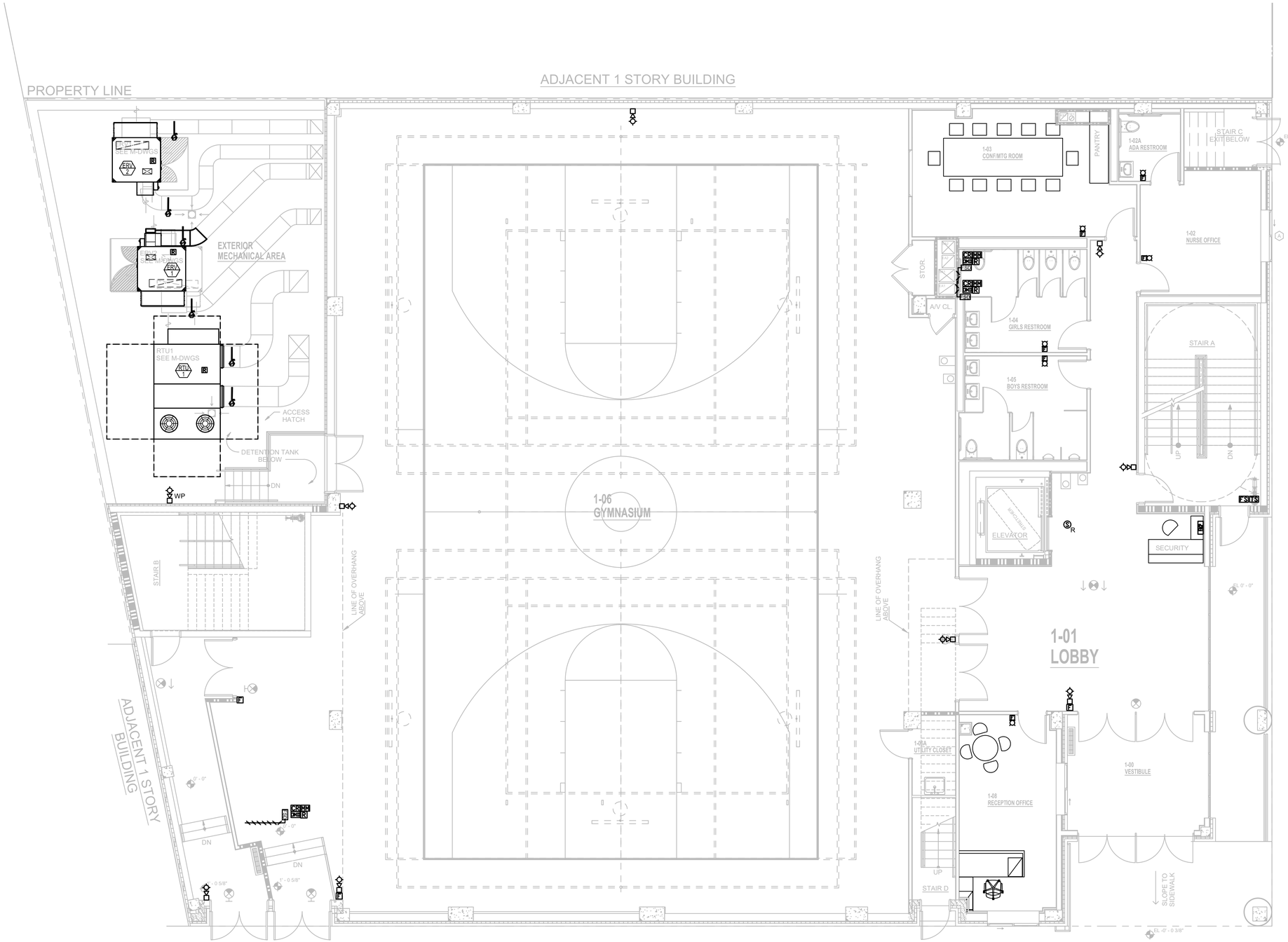
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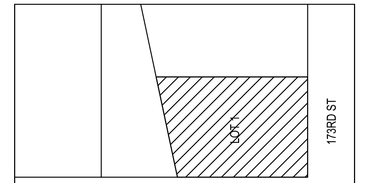
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FIRST FLOOR PLAN - FIRE ALARM

SCALE: 3/16" = 1'-0"



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	5/22/19	LEASE EXHIBIT

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FIRST FLOOR FIRE ALARM PLAN

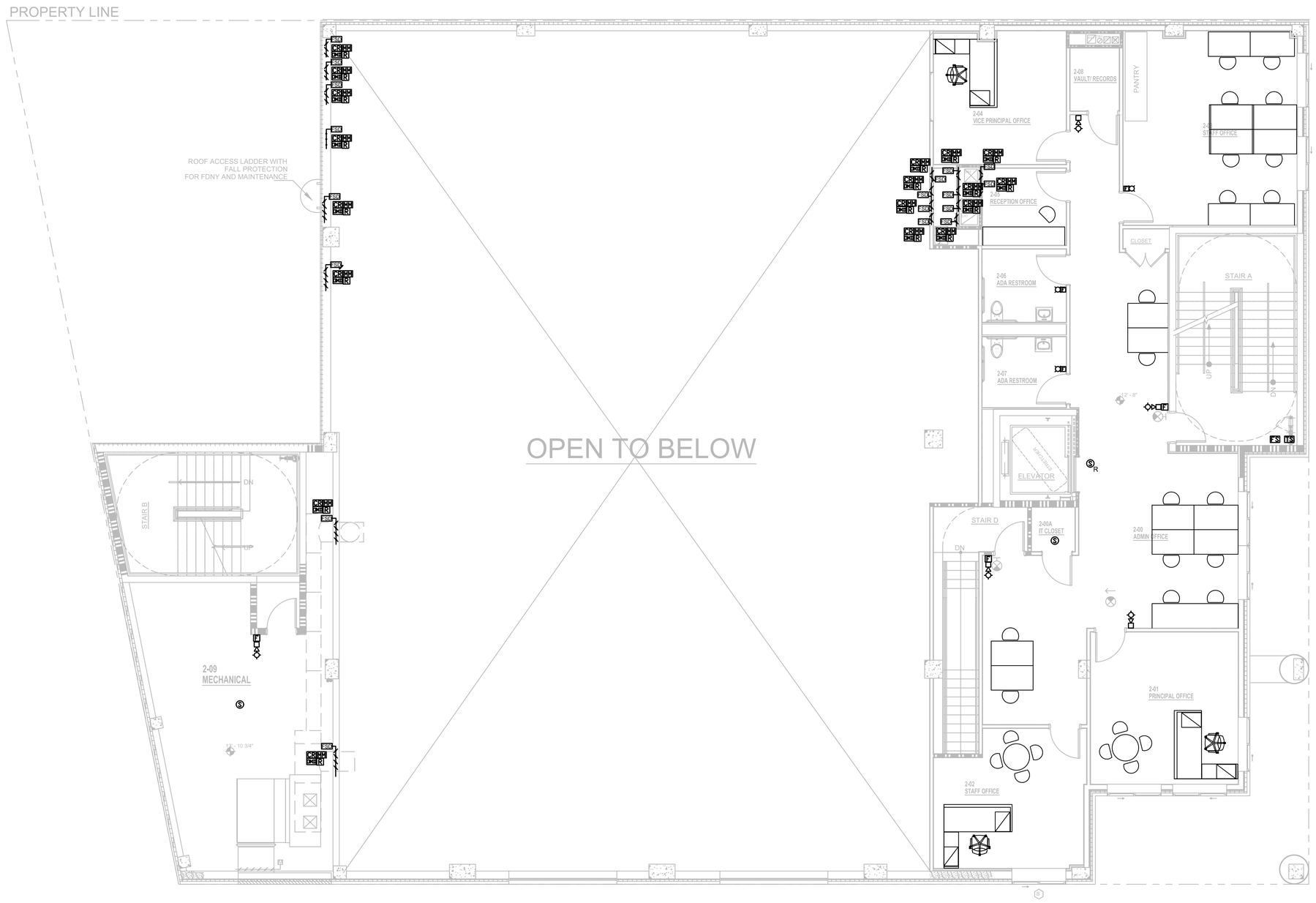
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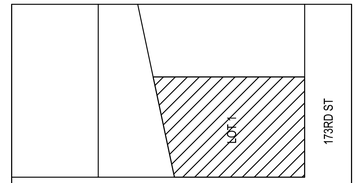
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SECOND FLOOR (ADMIN.) PLAN - FIRE ALARM

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SECOND FLOOR (ADMIN.)
FIRE ALARM PLAN

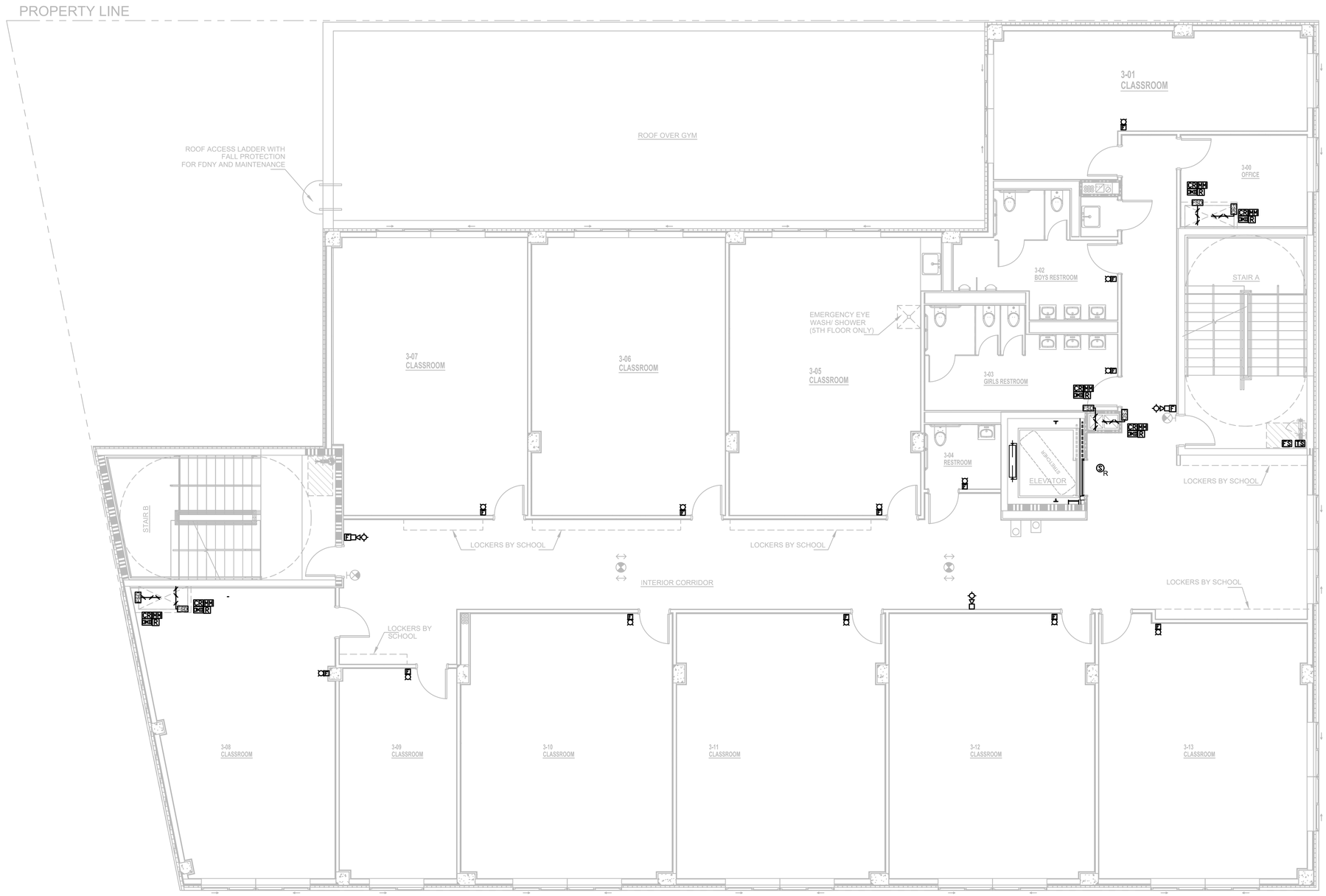
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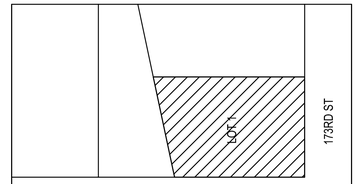
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THIRD THRU FIFTH FLOOR PLAN - FIRE ALARM

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THIRD THRU FIFTH FLOOR
FIRE ALARM PLAN

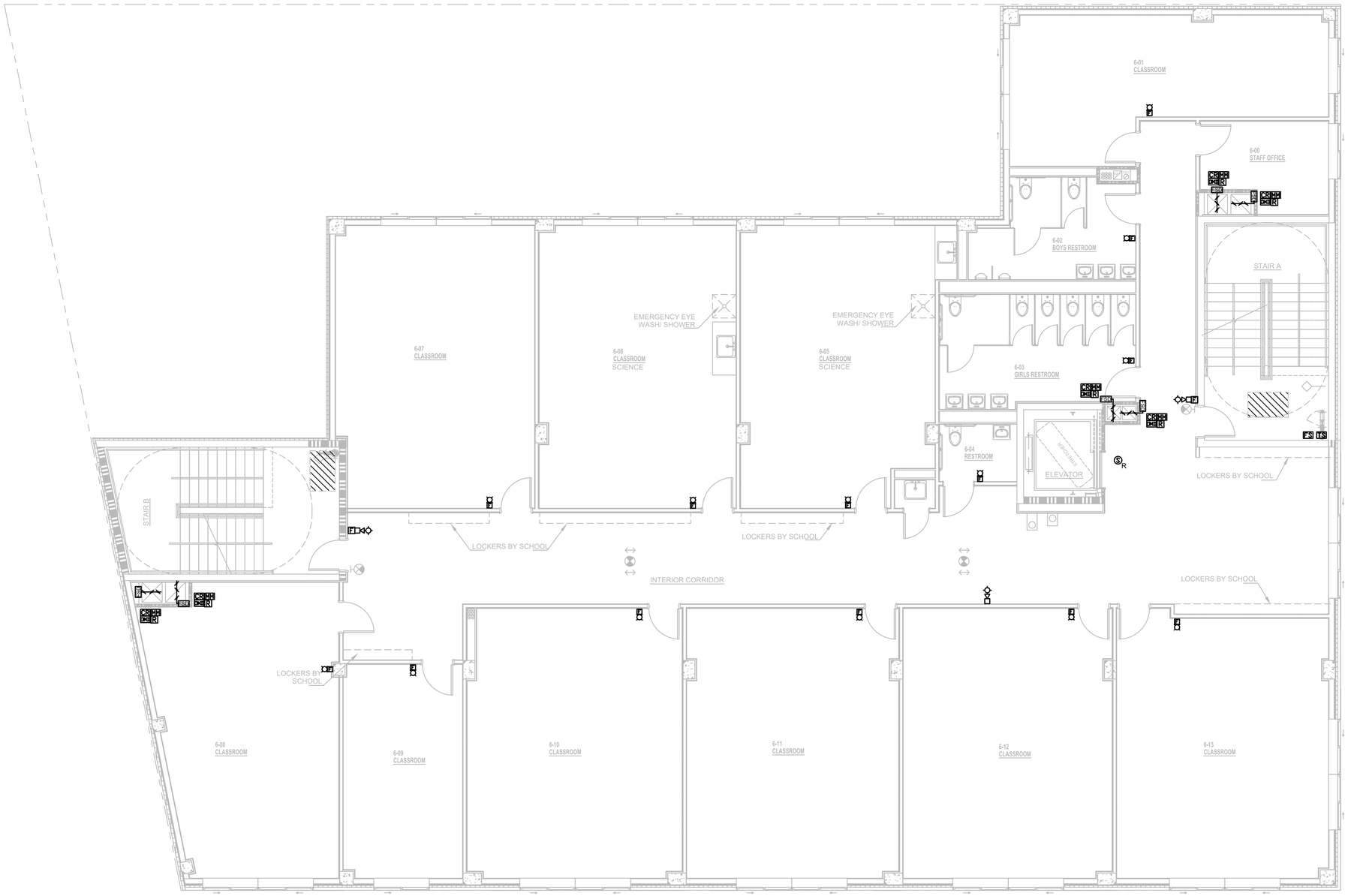
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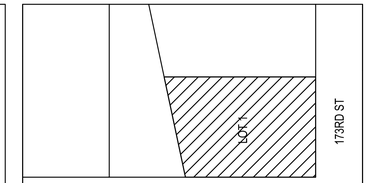
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SIXTH FLOOR PLAN - FIRE ALARM

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PROJECT NAME

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SIXTH FLOOR FIRE ALARM PLAN

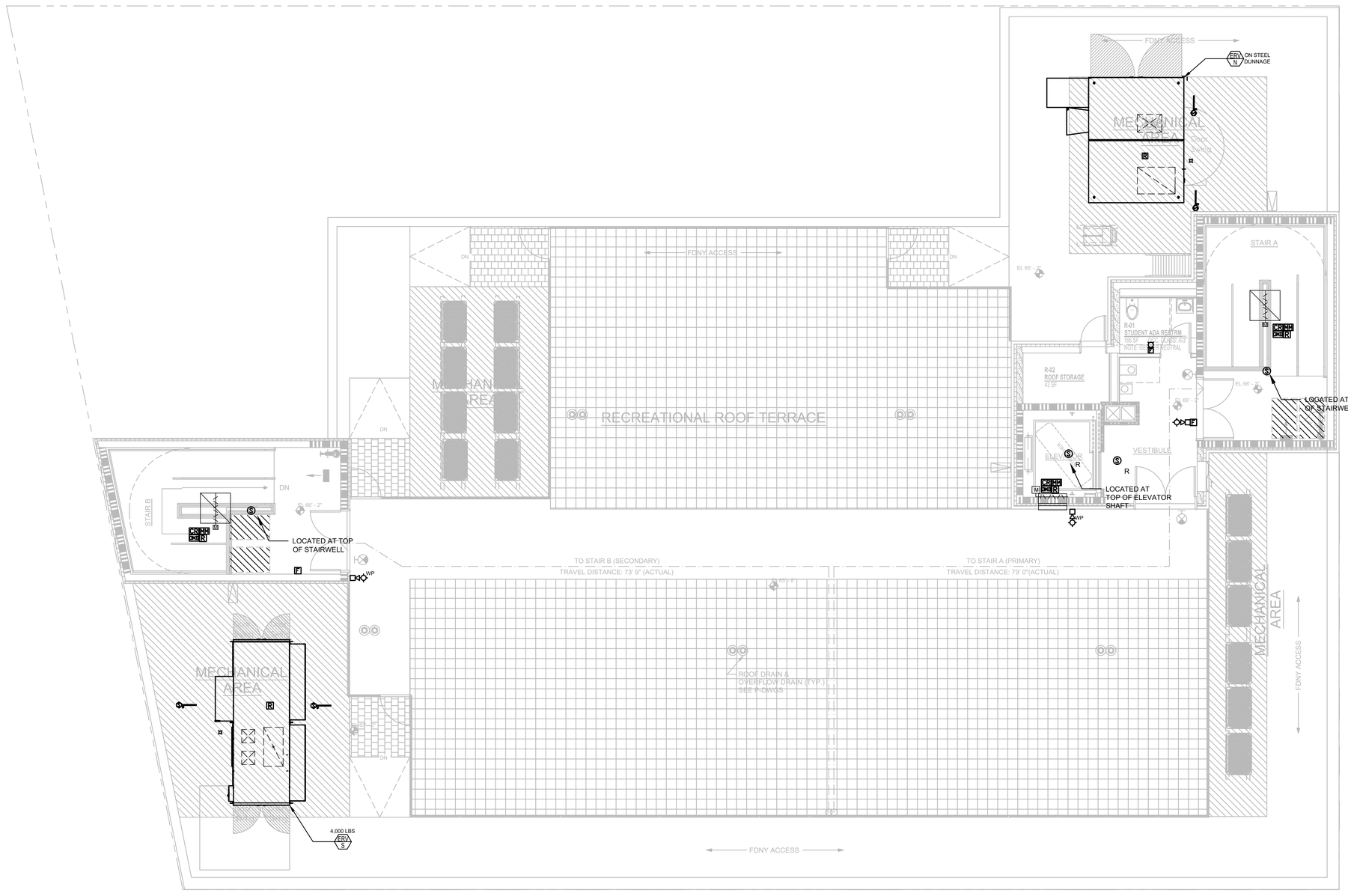
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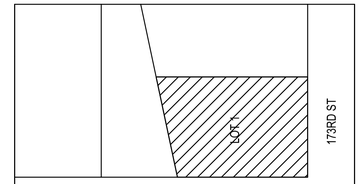
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ROOF PLAN - FIRE ALARM

SCALE: 3/16" = 1'-0"



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ROOF FIRE ALARM PLAN

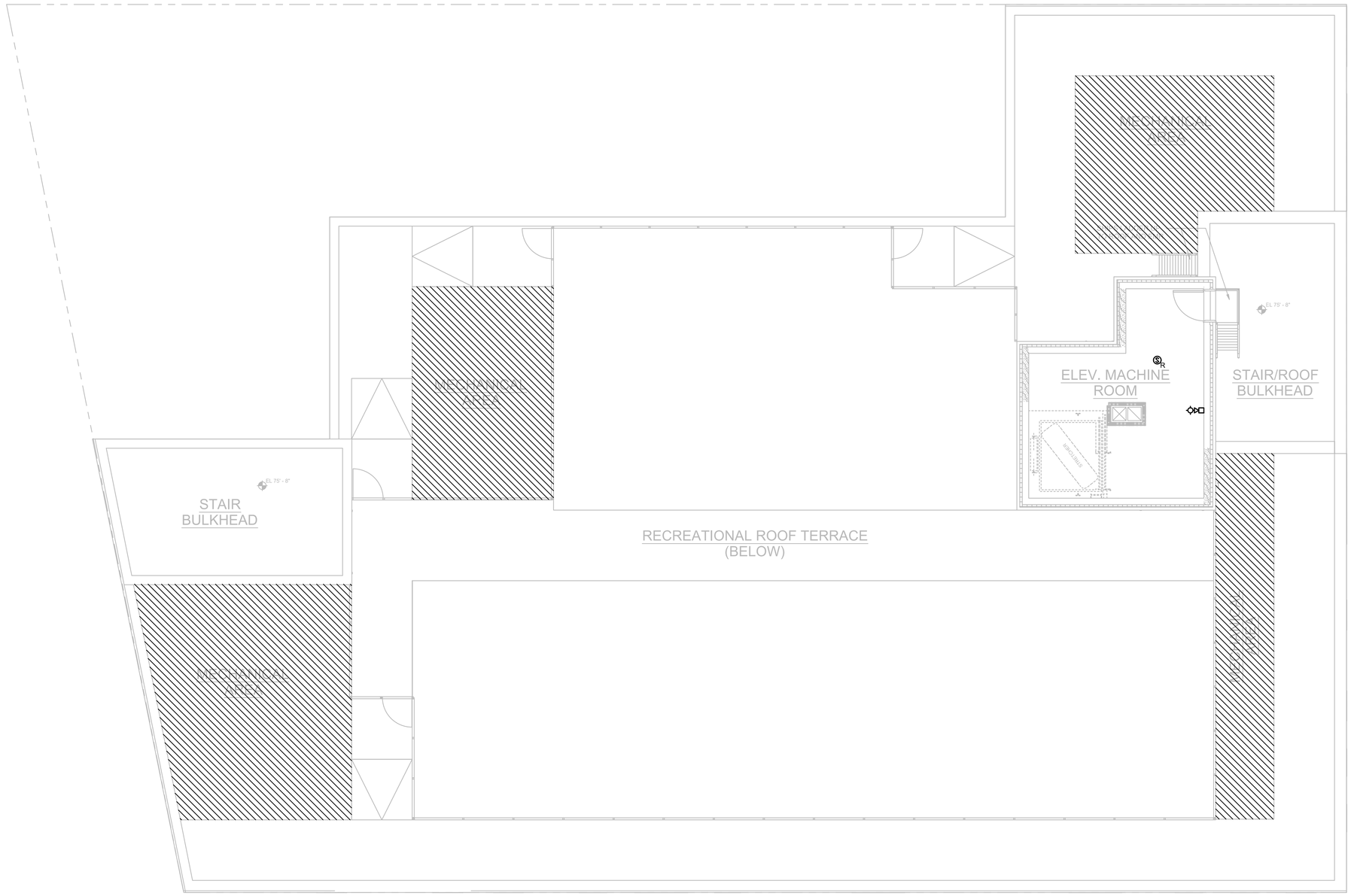
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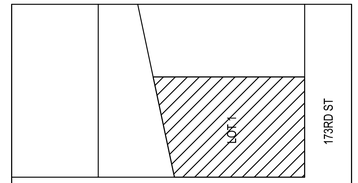
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BULKHEAD ROOF PLAN - FIRE ALARM

SCALE: 3/16" = 1'-0"



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	5/22/19	LEASE EXHIBIT

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DRAWING TITLE

BULKHEAD ROOF FIRE ALARM PLAN

Seal & Signature:

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PROJECT #: 19-0514
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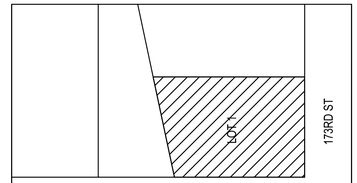
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ELEVATOR OVERRUN BULKHEAD ROOF PLAN - FIRE ALARM

SCALE: 3/16" = 1'-0"



	9/20/19	90% CD
	5/22/19	LEASE EXHIBIT

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PROJECT NAME

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DRAWING TITLE

ELEVATOR OVERRUN BULKHEAD ROOF FIRE ALARM PLAN

Seal & Signature:

DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:

FA-107.00

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FIRE ALARM RISER DIAGRAM

SCHEMATIC ONLY

ROOF
ROOF
ROOF FLOOR
SIXTH FLOOR
FIFTH FLOOR
FOURTH FLOOR
THIRD FLOOR
SECOND FLOOR
FIRST FLOOR
CELLAR

FIRE ALARM CONTROL PANEL

SEE DETAIL ON DRAWING FA-400

WIRING LEGEND

WIRING DESIGNATION	WIRING CIRCUIT CLASS
A	CLASS B

	9/20/19	90% CD
	5/22/19	LEASE EXHIBIT

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PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

FIRE ALARM RISER DIAGRAM

Seal & Signature:

DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:

FA-200.00

SHEET 10 OF 10

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PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE TAG	FIXTURE TYPE	CONNECTIONS				
		CW	HW	SAN	IW	V
WC	WATER CLOSET (FLUSH TANK)	3/4"	-	4"	-	2"
WC	WATER CLOSET (FLUSH VALVE)	1-1/2"	-	4"	-	2"
UR	URINAL	1"	-	2"	-	1-1/2"
LAV	LAVATORY	½"	½"	1-1/2"	-	1-1/2"
SK	SINK	½"	½"	1-1/2"	-	1-1/2"
MS	MOP SINK	½"	½"	3"	-	1-1/2"
WF	WATER FOUNTAIN	½"	½"	1-1/2"	-	1-1/2"
NOTE: SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE SELECTION						

SLOPE OF HORIZONTAL DRAINAGE PIPE

	STORM WATER	SANITARY WATER
SIZE	MINIMUM SLOPE	MINIMUM SLOPE
2-1/2" OR LESS	1/4" PER FOOT	1/4" PER FOOT
3"-6"	1/8" PER FOOT	1/4" PER FOOT
8" OR LARGER	1/8" PER FOOT	1/4" PER FOOT

RISER TAGS

SYMBOL	TYPE
P --	DOM. WATER/ SAN. WASTE
L --	STORM
G --	GAS

FLOOR AND ROOF DRAIN SCHEDULE (JAY R. SMITH)

LOCATION	TYPE	MANUFACTURER MODEL NUMBER	DESCRIPTION AND OPTIONS
ROOF AREAS WITHOUT PAVER FINISHES	GENERAL PURPOSE ROOF DRAIN TYPE RD-A	JAY R. SMITH FIGURE # 1015-G-R-C-U	GALVANIZED (-G) CAST-IRON BODY WITH ADJUSTABLE EXTENSION SLEEVE, REVERSIBLE COLLAR, COMBINED FLASHING CLAMP AND GRAVEL STOP, WITH POLYETHYLENE DOME AND STAINLESS STEEL MESH SCREEN, SUMP RECEIVER (-R), UNDERDECK CLAMP (-C), VANDAL PROOF DOME (-U)
OVERFLOW ROOF DRAINS	OVERFLOW ROOF DRAIN TYPE RD-A2	JAY R. SMITH FIGURE # 1080-C-R-U-G	GALVANIZED (-G) CAST-IRON BODY WITH COMBINED GRAVEL STOP AND FLASHING STOP, SUMP RECEIVER (-R), UNDERDECK CLAMP (-C), VANDAL PROOF DOME (-U)
CANOPY ROOF AREA	GENERAL PURPOSE ROOF DRAIN TYPE RD-C	JAY R. SMITH FIGURE # 1620T-G-U-NB	GALVANIZED (-G) CAST-IRON BODY WITH LOW DOME VANDAL PROOF SCREWS (-U), NICKEL BRONZE TOP (-NB)
MECHANICAL ROOMS	FLOOR DRAIN FOR CONCRETE AREAS TYPE FD-A	JAY R. SMITH FIGURE # 2110-G-B-U	GALVANIZED (-G) CAST-IRON BODY WITH FLASHING COLLAR AND CAST IRON BAR GRATE SEDIMENT BUCKET (-B), VANDAL PROOF SCREWS (-U)
REST ROOM	FLOOR DRAIN FOR CONCRETE AREAS TYPE FD-B	JAY R. SMITH FIGURE # 2005-G-B-HP- CP	GALVANIZED (-G) CAST-IRON BODY WITH FLASHING COLLAR AND CAST IRON BAR GRATE SEDIMENT BUCKET (-B), HEEL PROOF (-HP), CHROME PLATED STRAINER (-CP)
EXTERIOR AREAWAYS	AREA DRAIN FOR CONCRETE AREAS TYPE AD-A	JAY R. SMITH FIGURE # 2210-G-D-U	GALVANIZED (-G) CAST-IRON BODY WITH DOMED GRATE (-D) VANDAL PROOF SCREWS (-U)
EXTERIOR WALKWAYS	AREA DRAIN FOR CONCRETE AREAS TYPE AD-B	JAY R. SMITH FIGURE # 2130-H-B-S-U-G-NB	GALVANIZED (-G) CAST-IRON BODY WITH SQUARE GRATE (-S), HINGED (-H), SEDIMENT BUCKET (-S), VANDAL PROOF SCREWS (-U), NICKEL BRONZE TOP (-NB)
TRENCH DRAIN	TRENCH DRAIN FOR DRIVEWAYS & WALKWAYS TYPE TD-A	WADE MODEL# 2920	CAST IRON MULTIPLE SECTION TRENCH DRAIN WITH INSIDE CAULK OUTLET, FLANGE AND SPECIAL DUTY (OVER 10,000LBS.) DUCTILE IRON LOOSE SET GRATES.

PLUMBING LEGEND

SYMBOL	ABBREV	DESCRIPTION
	S OR W	SANITARY BELOW GRADE
	S OR W	SANITARY ABOVE GRADE
	ST	STORM BELOW GRADE
	ST	STORM ABOVE GRADE
	CW	DOMESTIC COLD WATER
	HW	DOMESTIC HOT WATER
	HWR	DOMESTIC HOT WATER RETURN
	V	SANITARY VENT
	G	NATURAL GAS
	IW	INDIRECT WASTE PIPING
	DN	PIPE OFFSET DOWN
	UP	PIPE OFFSET UP
	UP & DN	PIPE UP & DN
	RD	ROOF DRAIN
	FD	FLOOR DRAIN WITH RUNNING TRAP
	COWP	CLEAN-OUT WITH WALL PLATE
	CODP	CLEAN-OUT WITH DECK PLATE
	CO	CLEAN-OUT AT END OF PIPE RUN (EXPOSED)
	GV	GATE VALVE
	BV	BALL VALVE
	GC	GAS COCK
	CV	CHECK VALVE
	WH	FLUSH MOUNTED WALL HYDRANT
M		DOMESTIC WATER METER

N.Y.C. DOB PLUMBING NOTES

THE PLUMBING SYSTEMS (SANITARY, WASTE, VENT, WATER DISTRIBUTION AND GAS) AND ALL ASSOCIATED EQUIPMENT WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FULL REQUIREMENTS OF THE NYC 2014 PLUMBING CODE (PC) AND FUEL GAS CODE (FGC).

1. INSTALLATION OF UNDERGROUND PIPING SHALL BE IN ACCORDANCE WITH THE NYC PLUMBING CODE SECTION 702.2.
2. PROTECTION OF PIPING PASSING UNDER OR THROUGH FOUNDATION WALLS SHALL COMPLY WITH NYC PLUMBING CODE SECTION 305.
3. TRENCHING, EXCAVATION AND BACKFILL SHALL COMPLY WITH NYC PLUMBING CODE SECTION 306.
4. RAT PROOFING SHALL COMPLY WITH NYC PLUMBING CODE SECTION 304.
5. ALL MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF NYC PLUMBING CODE SECTION 303, 605, 702, 902 AND 1102.
6. THE INSTALLATION OF FIXTURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF NYC PLUMBING CODE CHAPTER 4.
7. EQUIPMENT CONNECTIONS AND JOINING OF PIPING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF NYC PLUMBING CODE CHAPTERS 4, 5, 6, 7 AND 9.
8. DEEP SEAL TRAPS FOR FLOOR DRAINS SHALL BE PROVIDED AS PER NYC PLUMBING CODE SECTION 1002; CLEAN-OUTS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NYC PLUMBING CODE SECTION 708.
9. BUILDING HOUSE TRAPS SHALL BE PROVIDED IN ACCORDANCE WITH NYC PLUMBING CODE SECTION 1002.
10. DRAINAGE PIPE CLEAN-OUTS SHALL BE PROVIDED IN ACCORDANCE WITH NYC PLUMBING CODE SECTION 708.
11. VERTICAL AND HORIZONTAL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH NYC PLUMBING CODE SECTION 308.
12. WATER SUPPLY SYSTEMS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF NYC PLUMBING CODE CHAPTER 6, SECTION 601 THROUGH 604, 606, 607, 608 AND 610.
13. THE SANITARY DRAINAGE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NYC PLUMBING CODE CHAPTER 7, SECTION 701, 704 THROUGH 708 AND 711.
14. VENT PIPING FOR THE SANITARY DRAINAGE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NYC PLUMBING CODE CHAPTER 9, SECTION 901 THROUGH 917.
15. THE STORM DRAINAGE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NYC PLUMBING CODE CHAPTER 11, SECTION 1101 THROUGH 1113.
16. GAS PIPING AND CONNECTIONS TO EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NYC FUEL GAS CODE CHAPTERS 3, 4 AND 6.
17. TEMPORARY TOILE FACILITIES SHALL BE PROVIDED FOR CONSTRUCTION WORKERS AS PER NYC PLUMBING CODE CHAPTER 3, SECTION 311.

PLUMBING ABBREVIATIONS LIST

AFF	ABOVE FINISHED FLOOR		
APPROVED	APPROVED		
APPROX	APPROXIMATELY		
ARCH	ARCHITECT		
BSMT	BASEMENT		
BFF	BELOW FINISHED FLOOR		
BLDG	BUILDING		
BT	BATHTUB		
CLG	CEILING		
CFH	CUBIC FEET PER HOUR		
CO	CLEANOUT		
CODP	CLEANOUT DECKPLATE		
CONN	CONNECT		
CONT	CONTINUATION		
CW	COLD WATER		
DFU	DRAINAGE FIXTURE UNIT		
DIA	DIAMETER		
DN	DOWN		
DWG	DRAWING		
DF	DRINKING FOUNTAIN		
DW	DISHWASHER		
EA	EACH		
EQ	EQUIPMENT		
EQUIP	EQUIPMENT		
EXIST	EXISTING		
FD	FLOOR DRAIN		
FFD	FUNNEL FLOOR DRAIN		
FUD	FUNNEL DRAIN		
FT	FEET		
G	NATURAL GAS		
GC	GENERAL CONTRACTOR		
HGT	HEIGHT		
HWH	HOT WATER HEATER		
HW	HOT WATER		
HWR	HOT WATER RETURN		
IW	INDIRECT WASTE		
INV	IINVERT		
KS	KITCHEN SINK		
LAV	LAVATORY		
L.L.	LOT LINE		
MBH	THOUSAND BTU/HOUR		
MFR	MANUFACTURER		
MIN	MINIMUM		
MTG	BALL VALVE		
NIC	NOT IN CONTRACT		
NO	NUMBER		
NTS	NOT TO SCALE		
ORD	OVERFLOW ROOF DRAIN		
PC	PLUMBING CODE		
PH	PHASE		
PLBG	PLUMBING		
QTY	QUANTITY		
RD	ROOF DRAIN		
REQ	REQUIRED		
RM	ROOM		
SH	SHOWER		
SFU	SUPPLY FIXTURE UNIT		
SPEC	SPECIFICATIONS		
SQ FT	SQUARE FEET		
SRV	SAFETY RELIEF VALVE		
ST	STORMWATER		
TYP	TYPICAL		
VTR	VENT THROUGH ROOF		
WCO	WALL CLEANOUT		
WM	WATER METER		
W/	WITH		
WC	WATER CLOSET		
W/D	WASHER/DRYER		

PLUMBING TESTS & INSPECTIONS

1. THE FOLLOWING INSPECTIONS & TESTS SHALL BE CONSIDERED PART OF THE CONTRACT WORK.
2. UPON COMPLETION OR PARTIAL COMPLETION OF THE PERMITTED PLUMBING WORK, ALL INSPECTIONS AND TESTS SHALL BE CONDUCTED BY APPROVED AGENCIES OR SPECIAL INSPECTORS QUALIFIED TO CONDUCT SUCH INSPECTIONS AND TESTS IN ACCORDANCE WITH NYCBC SECTIONS 110, 1704, & 1707, NYCPC SECTION 312 & NYCFGC SECTION 406.
3. TESTS SHALL INCLUDE:

3.1.	DRAINAGE & VENT WATER TEST	PC 312.2
3.2.	DRAINAGE & VENT AIR TEST	PC 312.3
3.3.	DRAINAGE & VENT FINAL TEST	PC 312.4
3.4.	WATER SUPPLY SYSTEM TEST	PC 312.5
3.5.	WATER SERVICE PIPE TEST	PC 312.5.1
3.6.	GRAVITY SEWER TEST	PC 312.6
3.7.	STORM DRAINAGE SYSTEM TEST	PC 312.8
3.8.	BACKFLOW PREVENTION ASSEMBLIES	PC 312.10

4. SPECIAL INSPECTIONS SHALL INCLUDE:

4.1.	STORM DETENTION	BC 1704.21
4.2.	FIRESTOPPING	BC 1704.27

5. UPON COMPLETION OF ALL TESTING & INSPECTIONS, THE PLUMBING CONTRACTOR SHALL SECURE ALL CERTIFICATES OF COMPLIANCE AND TRANSMIT SAME TO OWNER.

PIPING SCHEDULE

SYSTEM	PIPING		FITTINGS		JOINING METHOD	WORKING PRESSURE
	MATERIAL	STANDARDS	TYPE	STANDARDS		
SOIL, WASTE, VENT (ABOVEGROUND)	STANDARD WEIGHT NO-HUB CAST IRON	ASTM A 74; ASTM A 888; CISPI 301	NO-HUB CAST IRON	ASME B16.4; ASME B16.12; ASTM A 74; ASTM A 888; CISPI 301	MECHANICAL JOINT COUPLING	10' STATIC HEAD
SOIL, WASTE, VENT (UNDERGROUND)	EXTRA HEAVY HUB & SPIGOT CAST IRON	ASTM A 74; ASTM A 888; CISPI 301	HUB & SPIGOT CAST IRON	ASME B16.4; ASME B16.12; ASTM A 74; ASTM A 888; CISPI 301	COMPRESSION GASKET	10' STATIC HEAD
DOMESTIC WATER	TYPE L COPPER TUBING	ASTM B 75; ASTM B 88;ASTM B 251; ASTM B 447	COPPER SWEAT	ASSE 1061; ASME B16.15; ASME B16.18; ASME B16.22; ASME B16.23;ASME B 16.26; ASME B 16.29	SOLDER WITH 95-5 TIN AMINONTY SOLDER	125 PSI
WATER SERVICE 3" TO 6"	CEMENT LINED DUCTILE IRON	AWWA C151 THICKNESS CLASS 56	CEMENT LINED DUCTILE IRON	AWWA C104; AWWA C110; AWWA C153	FLANGED FITTINGS	125 PSI
PUMP DISCHARGE	SCHEDULE 40 GALVANIZED STEEL	ASTM A 53	GALVANIZED STEEL	ASTM A153; ASME B16.3	THREADED FITTINGS	125 PSI

PLUMBING SPECIALTIES SCHEDULE

ID. No.	DESCRIPTION	MANUFACTURER	MODEL No.	SERVICE	REMARKS
COWP	WALL CLEANOUT	J.R. SMITH	4402 OR APP. EQ.	BATH ROOMS	DUCO CAST IRON WITH ROUND ADJUSTABLE SCORIATED NICKEL BRONZE TOP. VANDAL PROOF.
CODP	CLEANOUT DECK PLATE	J.R. SMITH	4020 OR APP. EQ.	U/G MAINS	DUCO CAST IRON WITH ROUND ADJUSTABLE SCORIATED NICKEL BRONZE TOP. VANDAL PROOF.
			4240 OR APP. EQ.	U/G MAINS	DUCO CAST IRON WITH ROUND ADJUSTABLE SCORIATED NICKEL BRONZE TOP. VANDAL PROOF. USE IN PARKING AREA ONLY
HB	HOSE BIBB	J.R. SMITH	5609QT OR APP. EQ.	MER. AREAS	QUARTER TURN, EXPOSED HYDRANT WITH 3/4"HOSE CONN. INTEGRAL VACUUM BREAKER, VANDAL RESISTANT & TURN KEY
HB-1	NON-FREEZE WATER HYDRANT	J.R. SMITH	5609QT OR APP. EQ.	EXTERIOR	QUARTER TURN, NON-FREEZE HYDRANT WITH 3/4"HOSE CONN. INTEGRAL VACUUM BREAKER, VANDAL RESISTANT & TURN KEY, RECESSED

PIPING VOLUME AND MAXIMUM PIPING LENGTHS

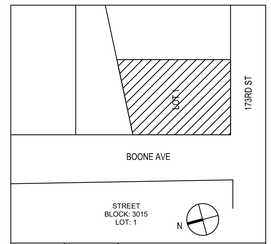
NOMINAL PIPE SIZE (INCHES)	VOLUME (LIQUID OUNCES PER FOOT LENGTH)	MAXIMUM PIPING LENGTH (FEET)	
		PUBLIC LAVATORY FAUCETS	OTHER FIXTURES AND APPLIANCES
1/4	0.33	6	50
5/16	0.5	4	50
3/8	0.75	3	50
1/2	1.5	2	43
5/8	2	1	32
3/4	3	0.5	21
7/8	4	0.5	16
1	5	0.5	13
1 1/4	8	0.5	8
1 1/2	11	0.5	6
2 OR LARGER	18	0.5	4

PLUMBING ENERGY NOTE:
PLUMBING SYSTEM COMPLIES TO NYCECC 2016 C404.5.2 MAXIMUM ALLOWABLE PIPE VOLUME METHOD
REQUIREMENT #2: VOLUME OF WATER NOT TO BE MORE THAN 0.5 GALLONS
PLUMBING SYSTEM UTILIZES A HOT WATER RE-CIRCULATION PUMP
ALL PLUMBING FIXTURES ARE PRIVATE
MAXIMUM PIPE SIZE = 3/4"
MAXIMUM DISTANCE TO FIXTURES FROM HEAT SOURCE = 10 FEET
VOLUME OF WATER PER FOOT FOR 3/4" PIPE = 0.025 GALLONS
VOLUME OF WATER TO NEAREST HEATING SOURCE = 10FT X 0.025GAL/FT = 0.25 GAL < 0.5 GAL COMPLIES

INSULATION SCHEDULE

SYSTEM	PIPE SIZE	PIPE INSULATION	PIPE INSULATION THICKNESS	FITTINGS, VALVES, FLANGES-INSULATION TYPE	REMARKS
DOMESTIC COLD WATER	ALL	MINERAL FIBER, ASJ, SSL	1"	MOLDED, PRE-FORMED, MINERAL FIBER, PVC JACKET	TYPE I
DOMESTIC HOT WATER	1" & LESS	MINERAL FIBER, ASJ, SSL	1"	MOLDED, PRE-FORMED, MINERAL FIBER, PVC JACKET	TYPE I
DOMESTIC HOT WATER CIRC.	1" & LESS	MINERAL FIBER, ASJ, SSL	1"	MOLDED, PRE-FORMED, MINERAL FIBER, PVC JACKET	TYPE I
DOMESTIC HOT WATER	1.5" & UP	MINERAL FIBER, ASJ, SSL	1.5"	MOLDED, PRE-FORMED, MINERAL FIBER, PVC JACKET	TYPE I
DOMESTIC HOT WATER CIRC.	1.5" & UP	MINERAL FIBER, ASJ, SSL	1.5"	MOLDED, PRE-FORMED, MINERAL FIBER, PVC JACKET	TYPE I

NOTE1: FIBERGLASS INSULATION: THERMAL CONDUCTIVITY .22 TO. 28 BTU x IN/H x FT x F W/100F MEAN TEMP, THICKNESS BASED ON ASHRAE 90.1, 2013, TABLE C403.2.10
NOTE 2: REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
NOTE3: CONSTRUCTION DOCUMENTS MUST ACCOUNT FOR PIPING TOTAL THICKNESS INCLUDING REQUIRED INSULATION WHEN PASSING THROUGH PLANKS OR ANY OTHER PENETRATION. PIPING MUST BE INSPECTED BEFORE ACCESS IS COVERED UP. EXTENT AND LOCATION TO BE DETERMINED BY ASHRAE 90.1-2013 SECTION ECC C403 OR LOCAL CODE.



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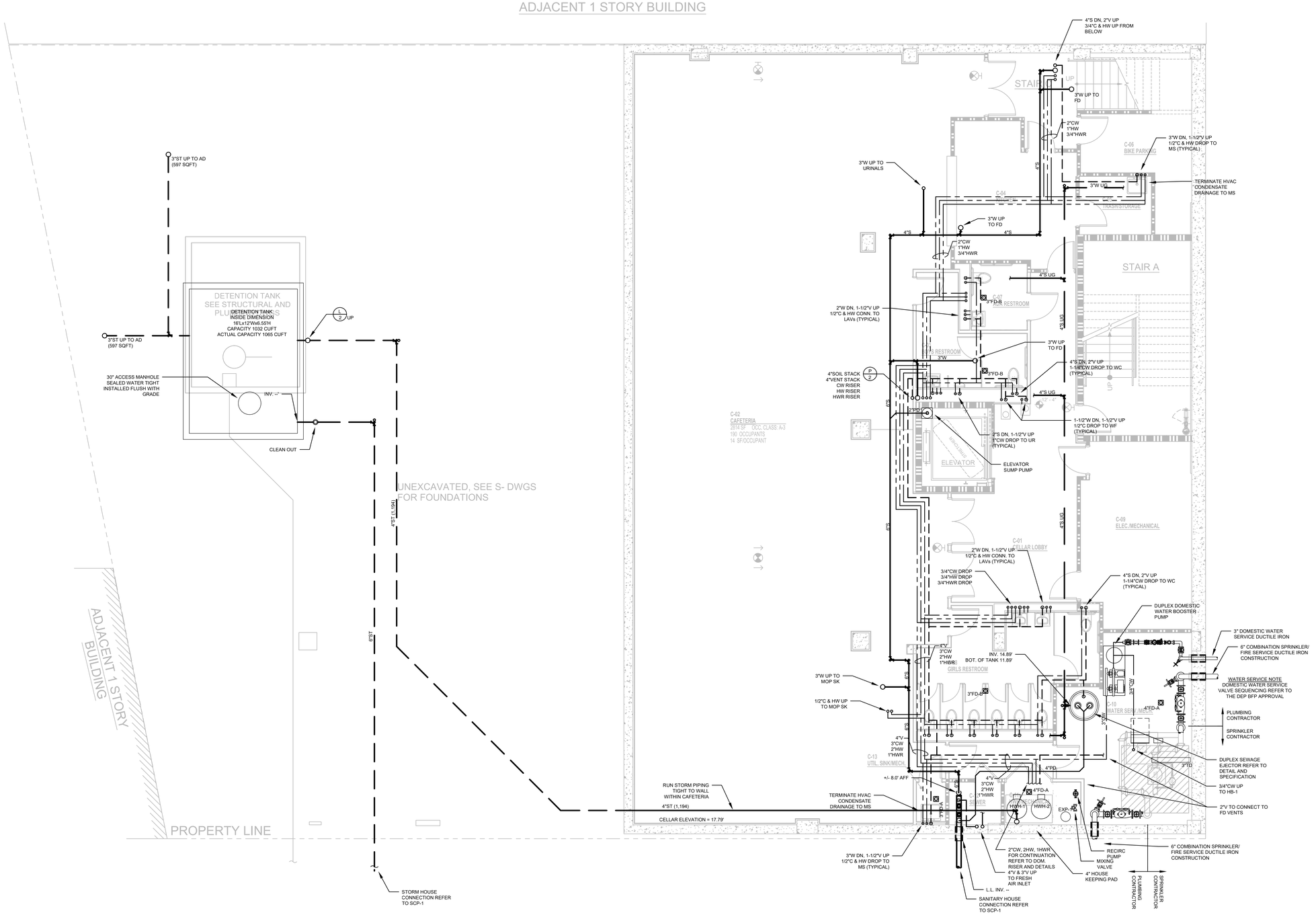
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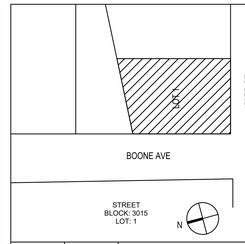
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CELLAR PLAN - PLUMBING

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



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CELLAR PLUMBING PLAN

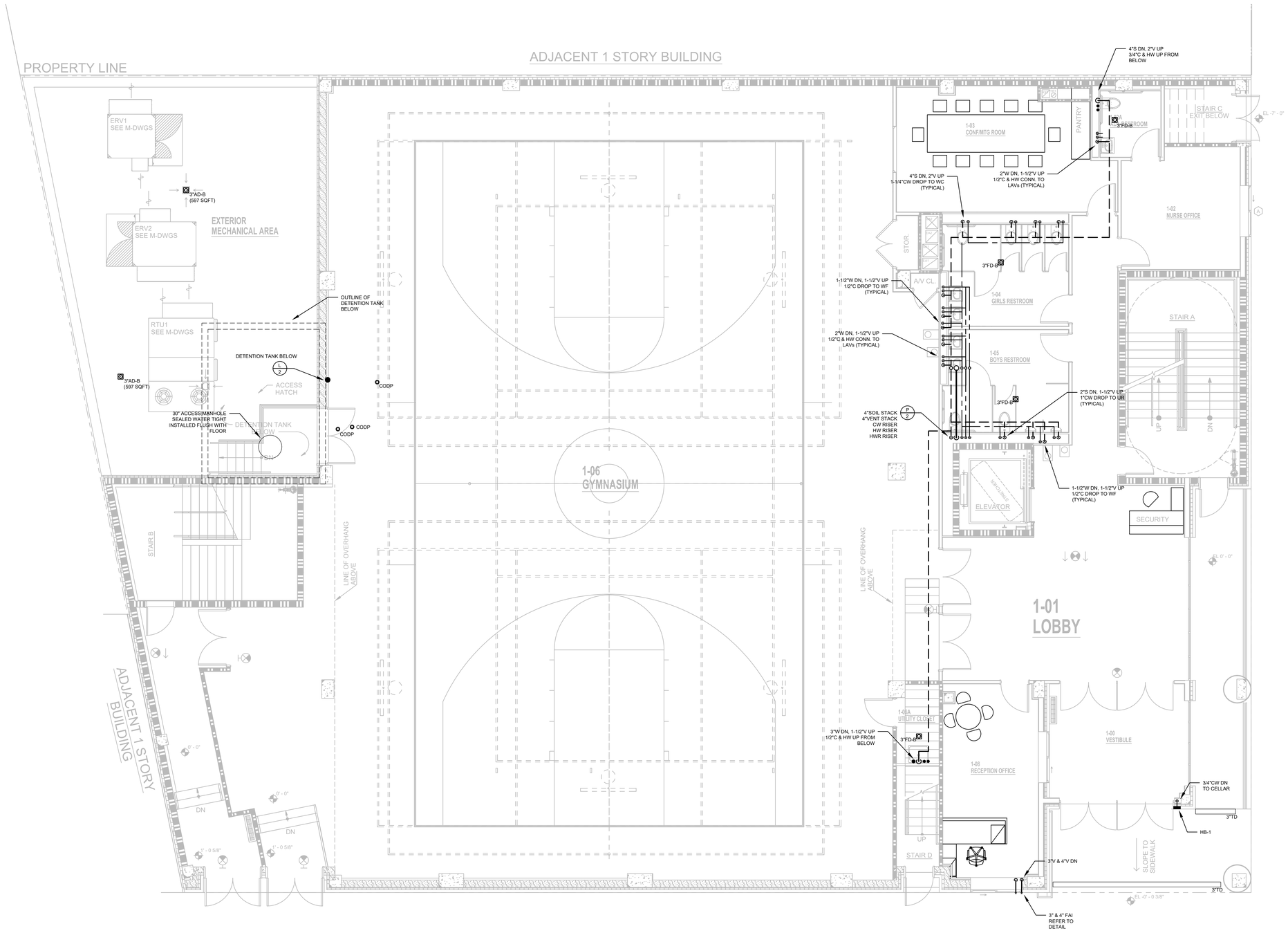
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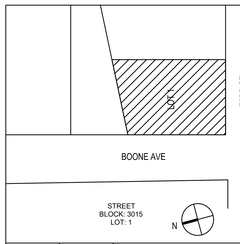
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FIRST FLOOR PLAN - PLUMBING

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



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FIRST FLOOR PLUMBING PLAN

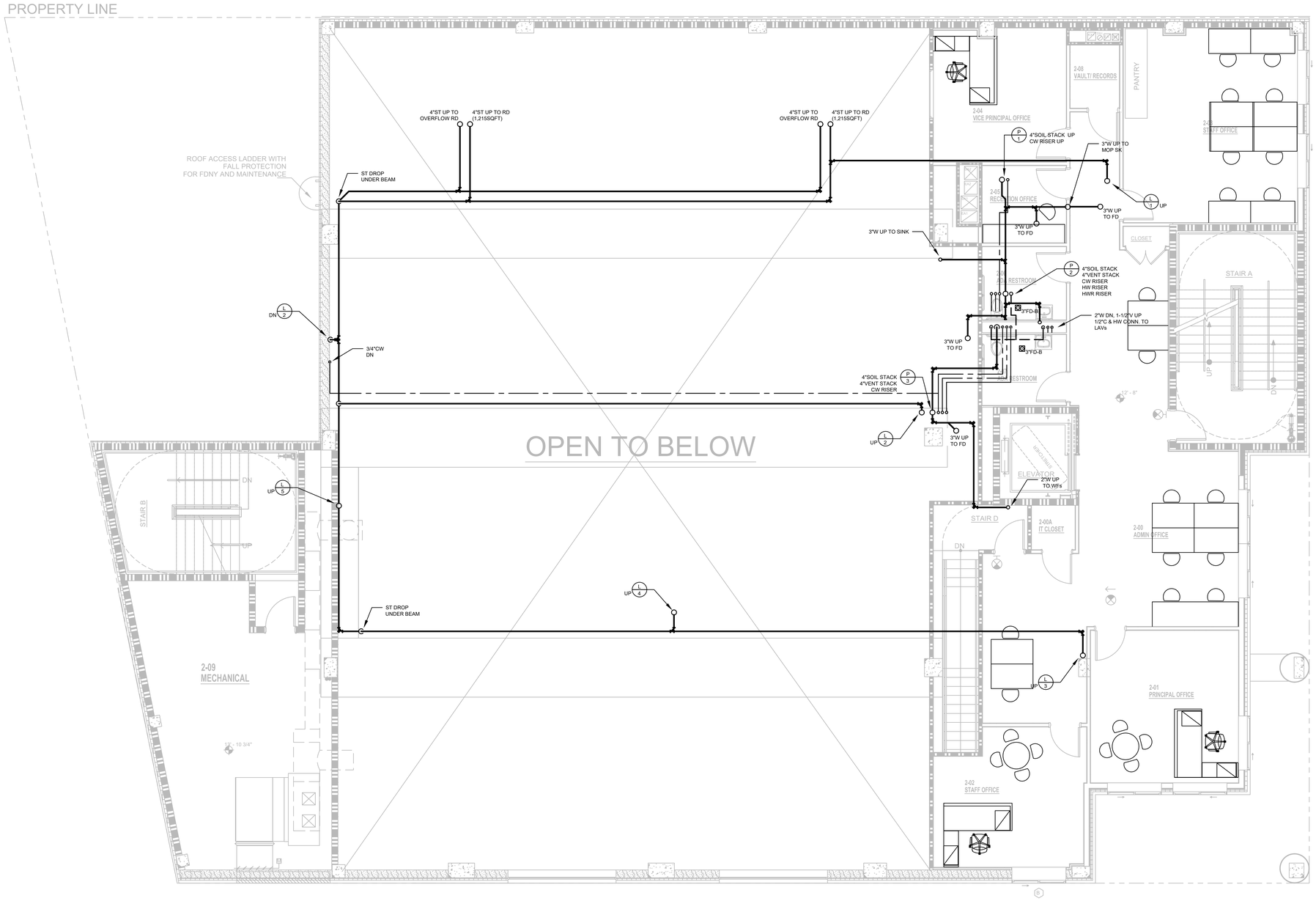
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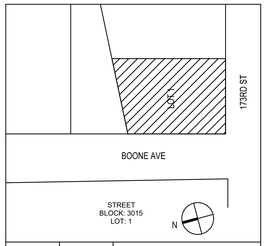
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SECOND FLOOR (ADMIN.) PLAN - PLUMBING

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PROJECT NAME

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Bronx, New York 10460

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SECOND FLOOR (ADMIN.) PLUMBING PLAN

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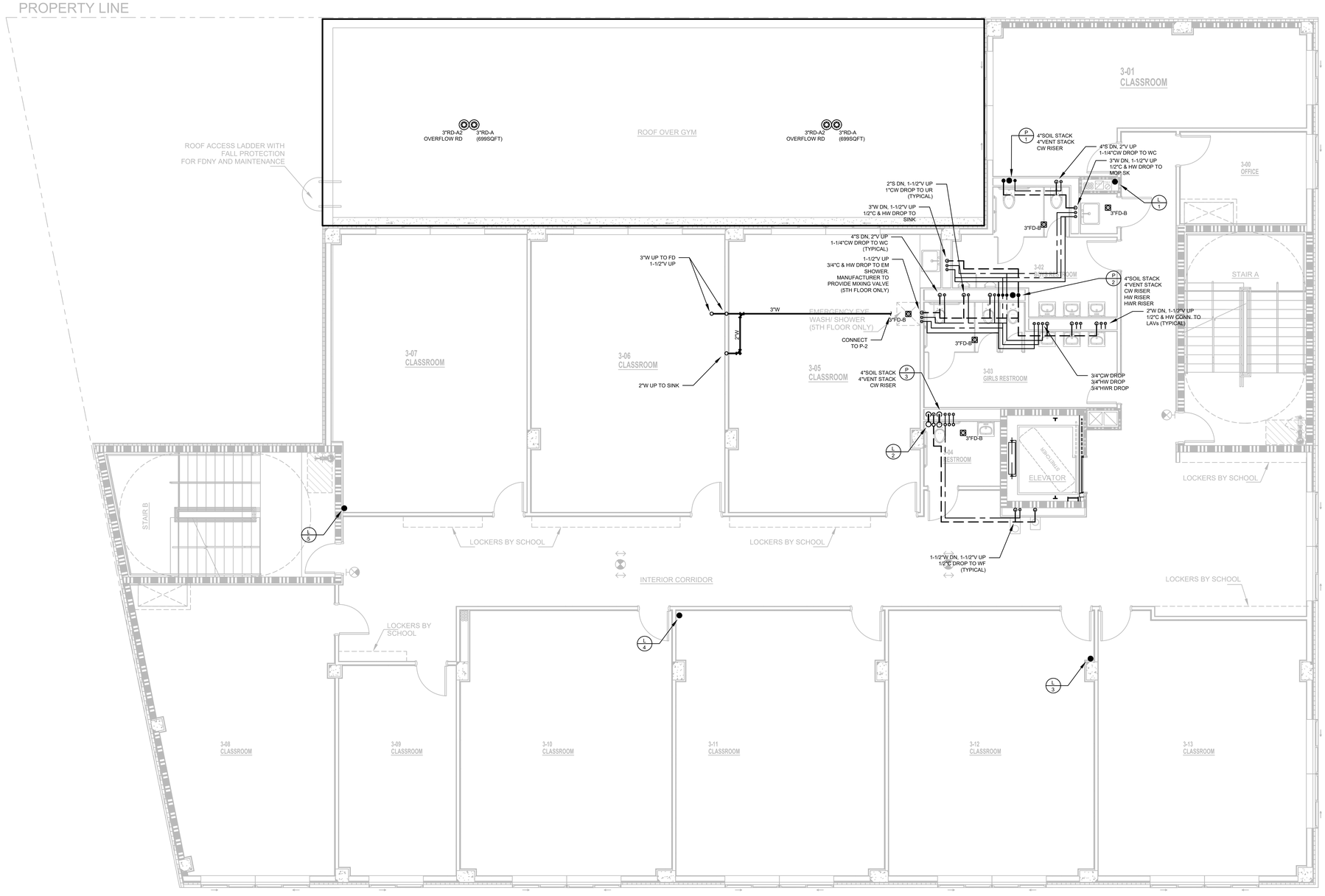
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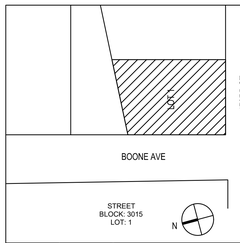
SHEET 04 OF 15

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THIRD THRU FIFTH FLOOR PLAN - PLUMBING

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



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

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DOB XXXXXX

PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

THIRD THRU FIFTH FLOOR PLUMBING PLAN

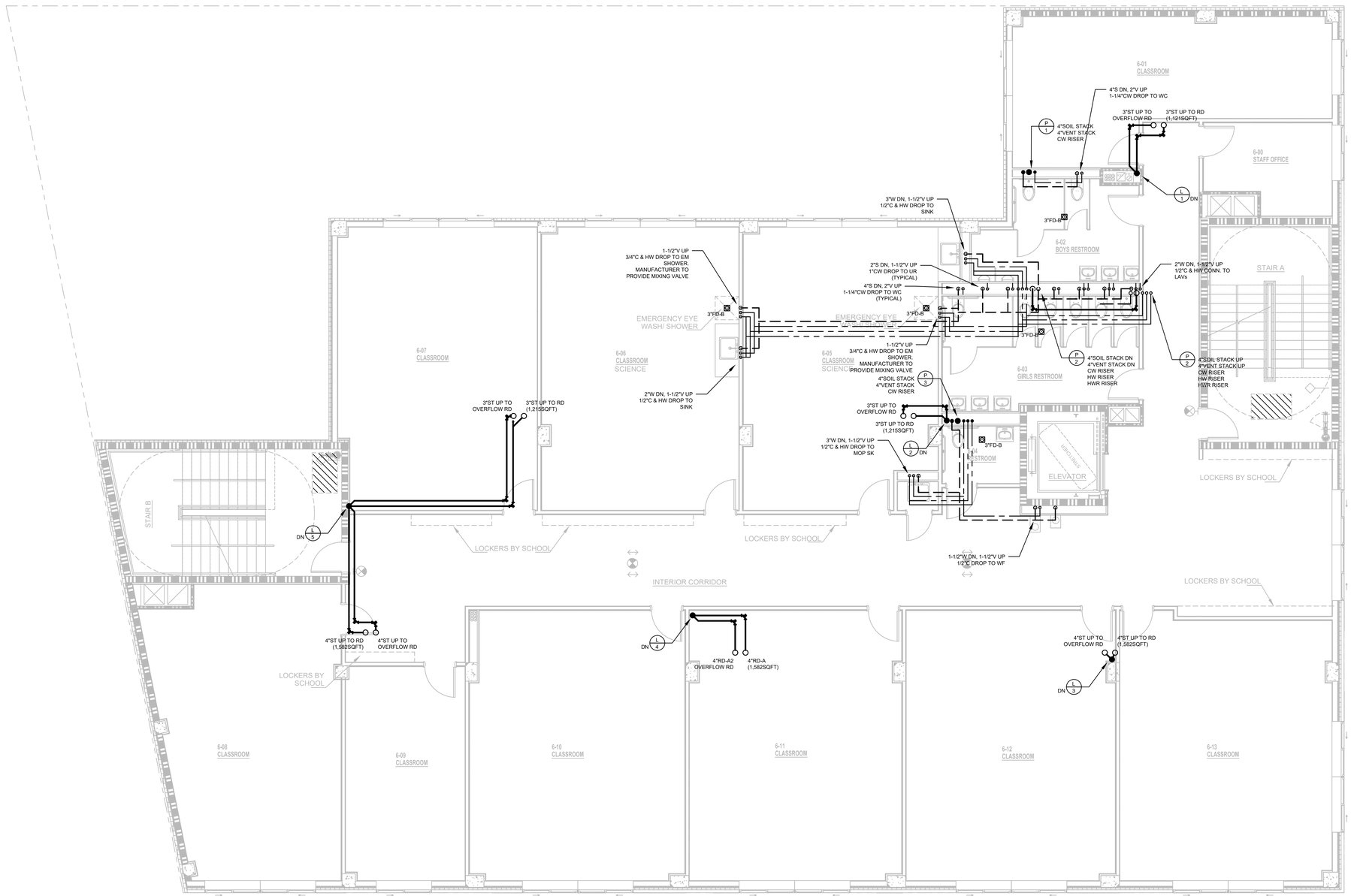
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DATE: 06/06/19
PROJECT #: 19-0514
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P-103.00

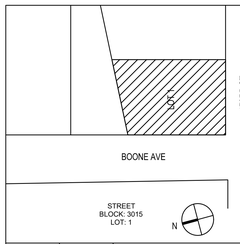
SHEET 05 OF 15

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SIXTH FLOOR PLAN - PLUMBING

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



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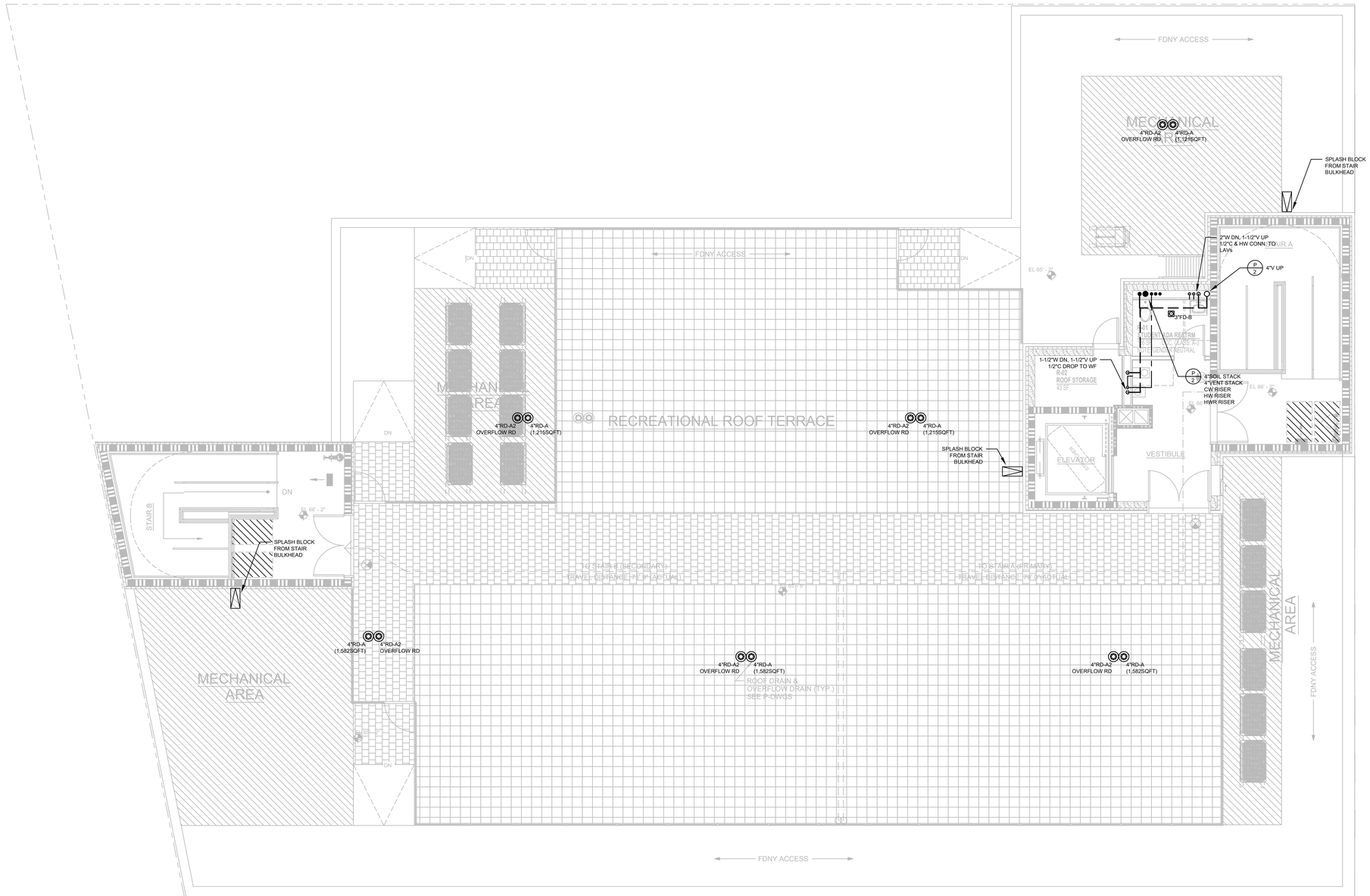
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1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
SIXTH FLOOR PLUMBING PLAN

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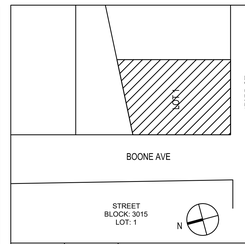
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PROJECT #: 19-0514
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P-104.00
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ROOF FLOOR PLAN - PLUMBING

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PROJECT NAME

1660 BOONE AVE

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ROOF FLOOR PLUMBING PLAN

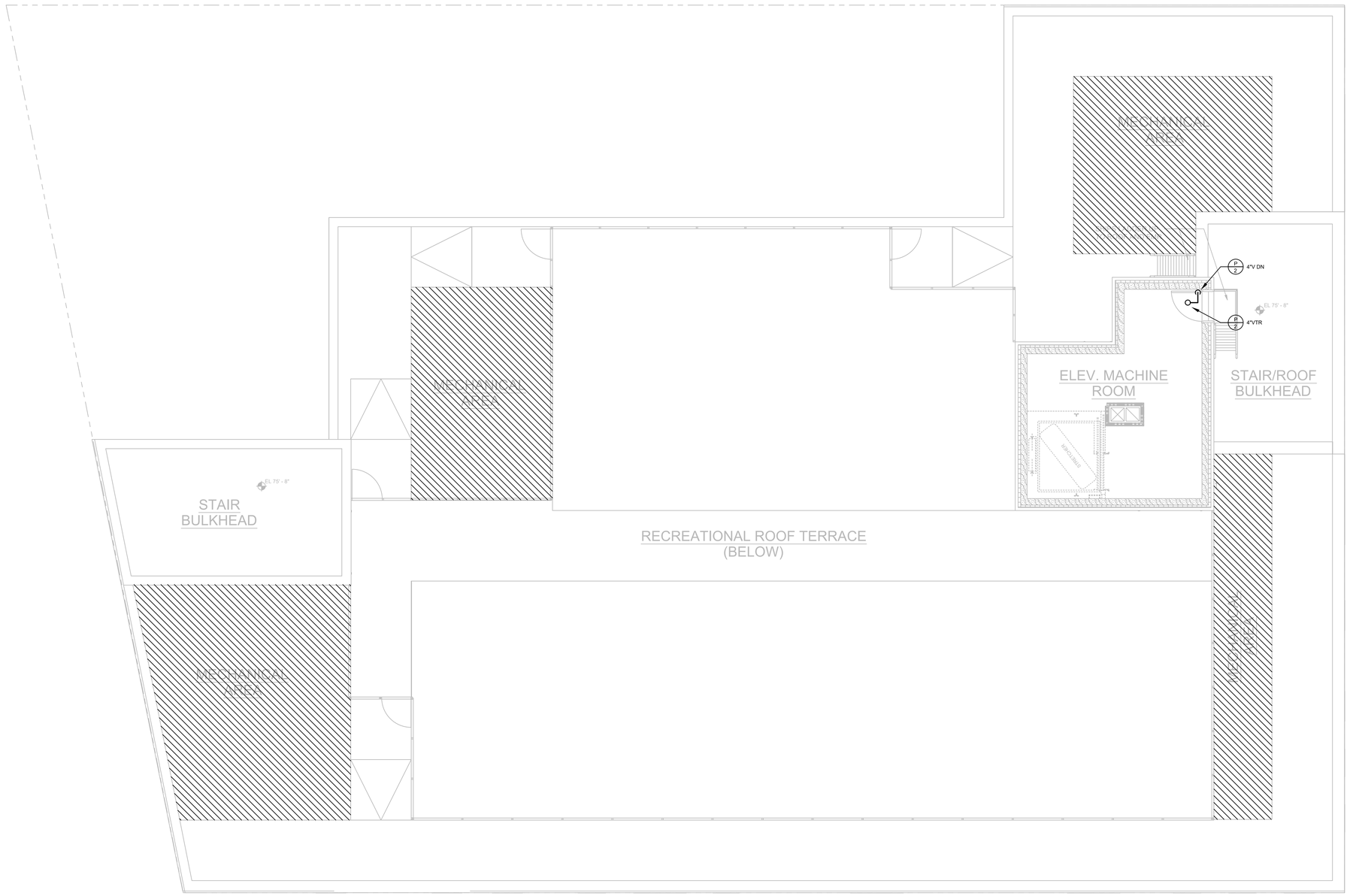
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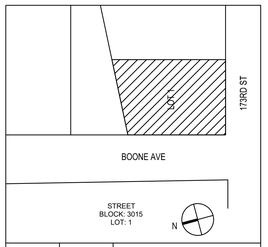
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BULKHEAD ROOF PLAN - PLUMBING

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PROJECT NAME

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DRAWING TITLE

BULKHEAD ROOF PLUMBING PLAN

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DATE: 06/06/19
PROJECT #: 19-0514
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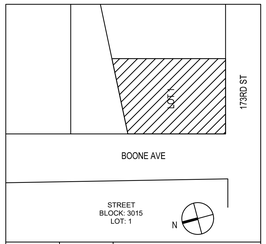
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ELEVATOR OVERRUN BULKHEAD ROOF PLAN - PLUMBING

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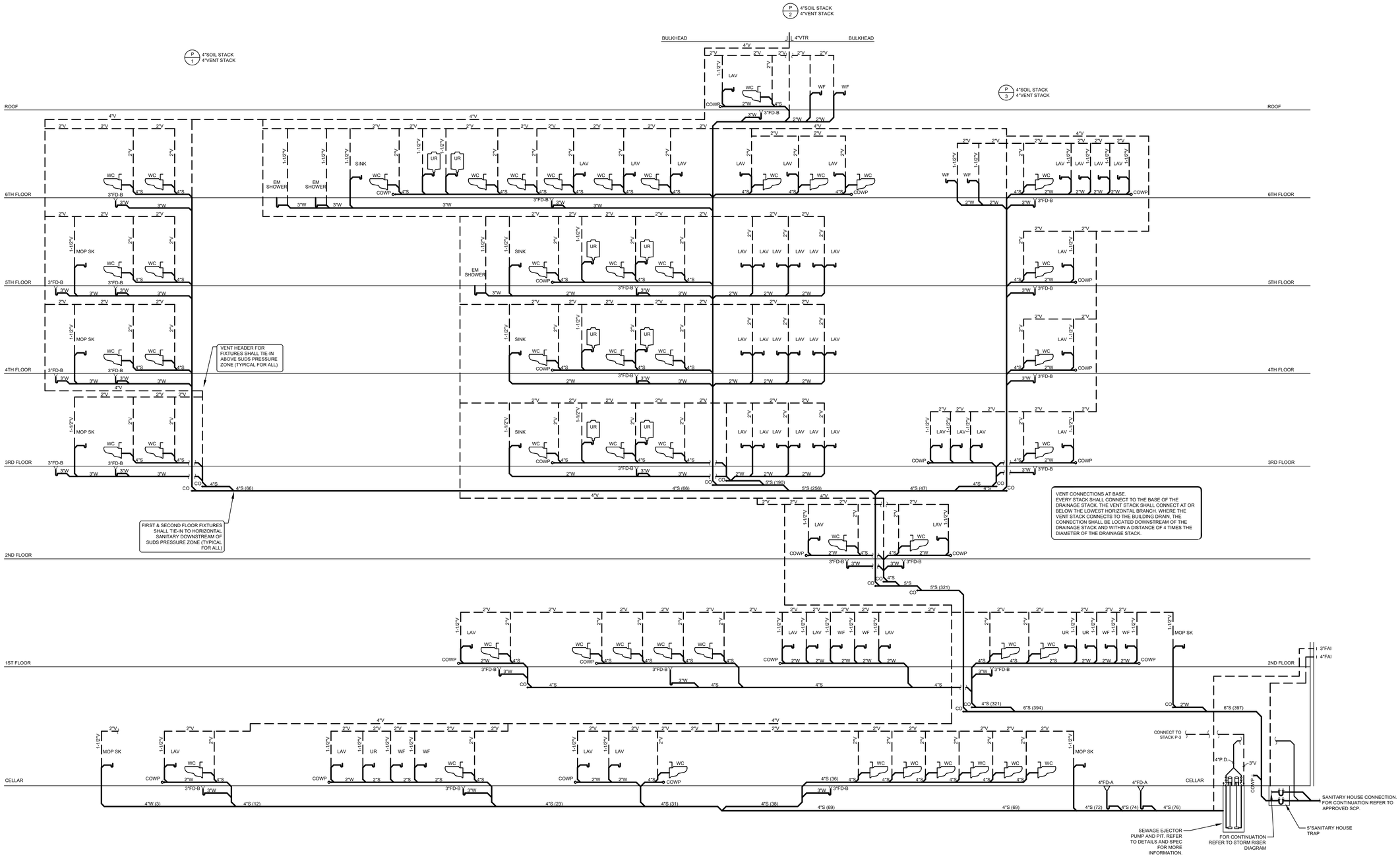
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Bronx, New York 10460

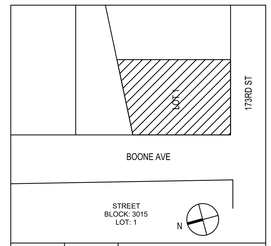
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ELEVATOR OVERRUN BULKHEAD ROOF PLUMBING PLAN

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PROJECT NAME

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Bronx, New York 10460

DRAWING TITLE

SANITARY RISER DIAGRAM

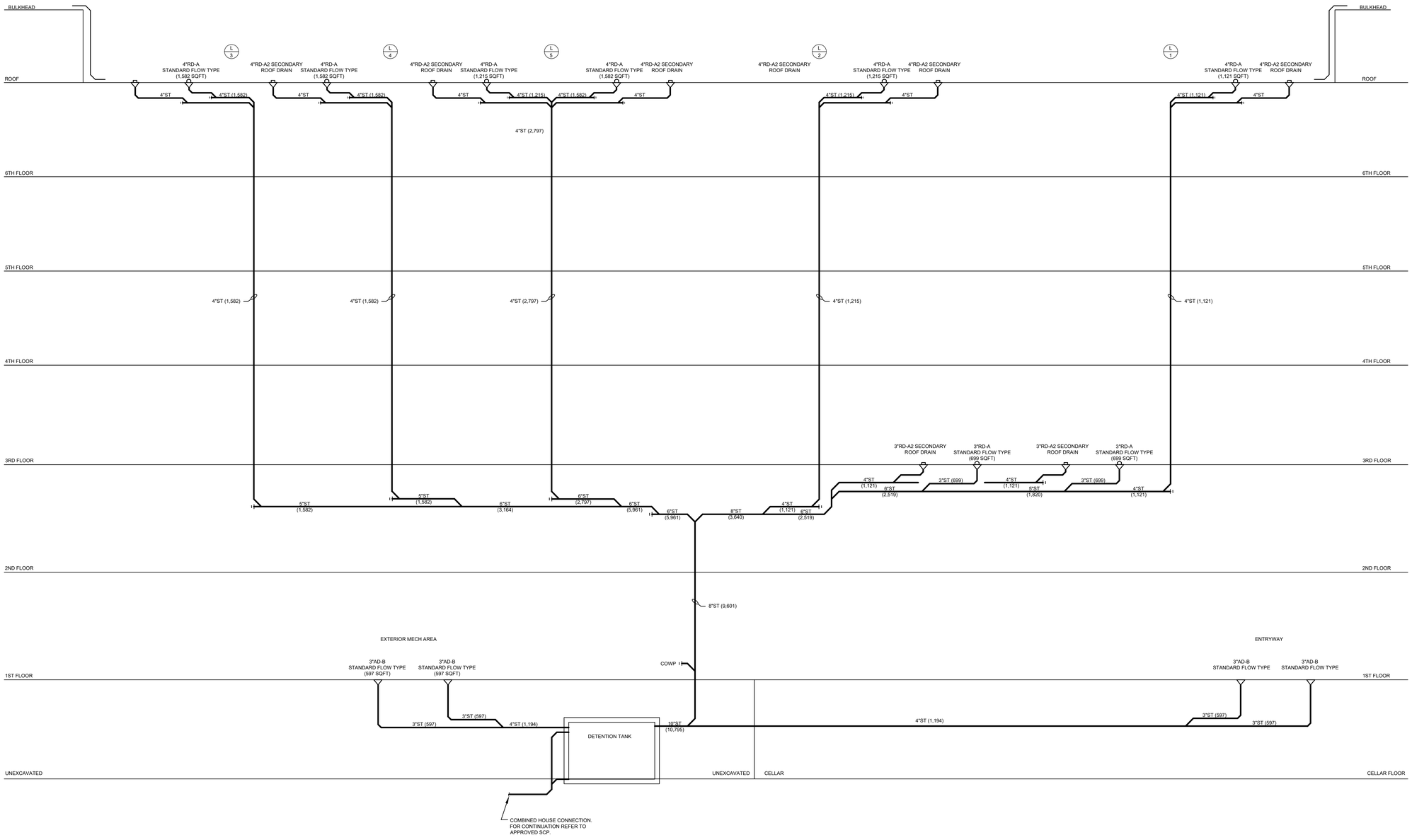
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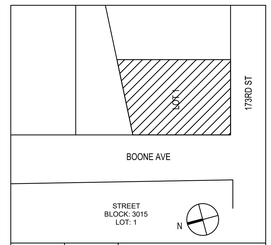
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PROJECT NAME

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Bronx, New York 10460

DRAWING TITLE

STORM WATER RISER DIAGRAM

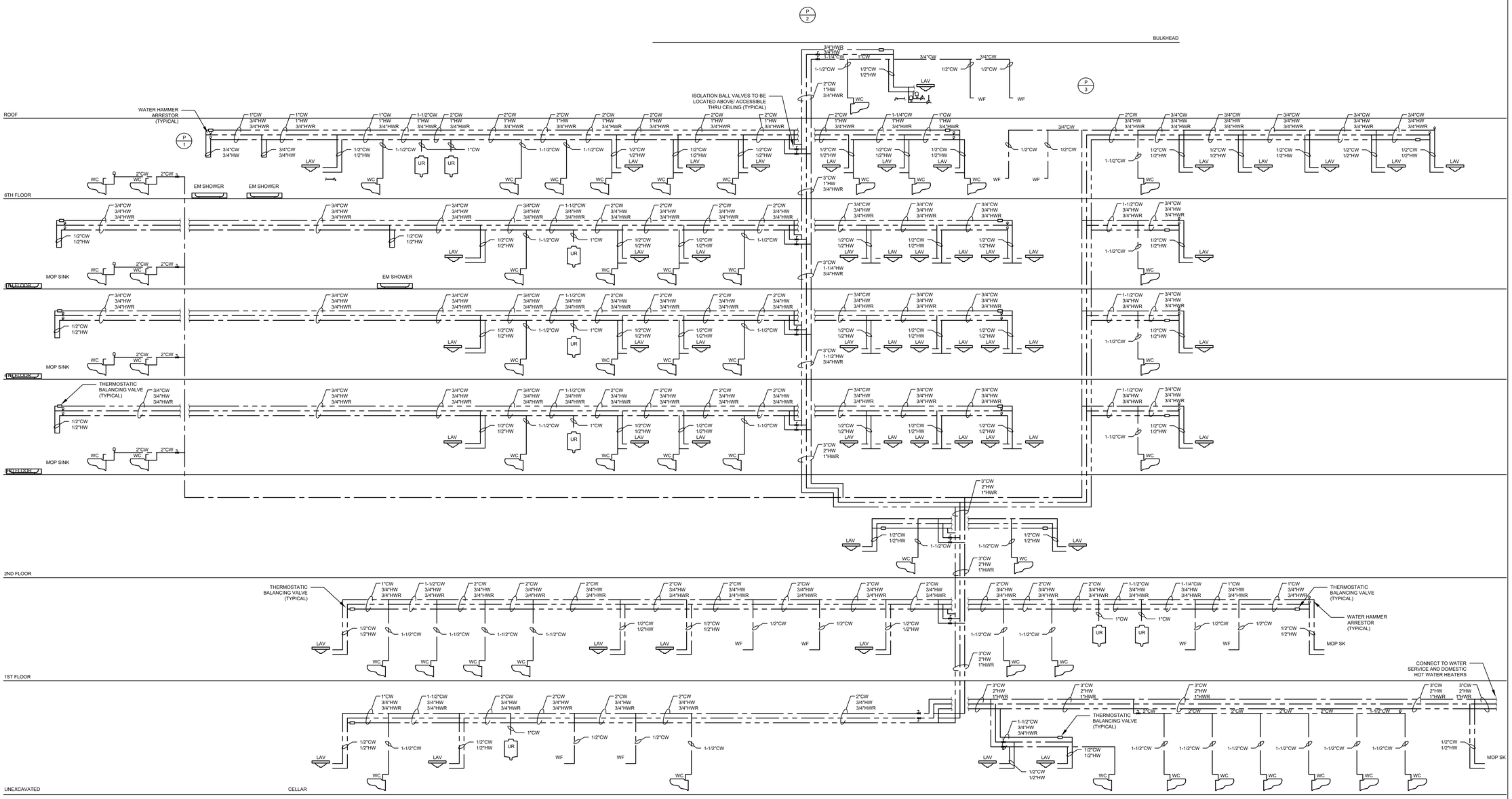
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PROJECT #: 19-0514
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P-210.00

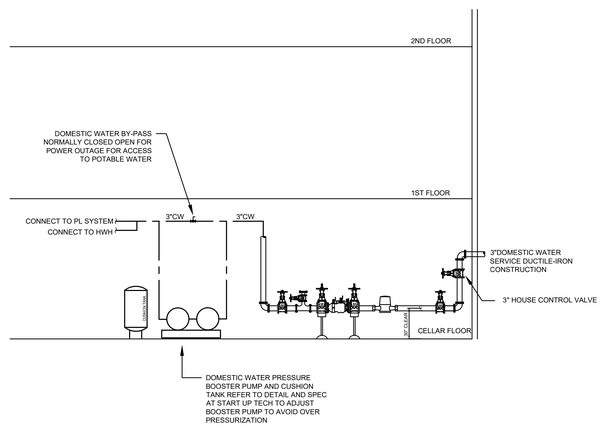
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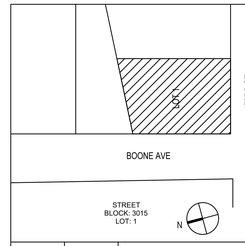
DOMESTIC WATER RISER DIAGRAM

SCHEMATIC ONLY



DOMESTIC WATER SERVICE

SCHEMATIC ONLY



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DOB XXXXXX

PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

DOMESTIC WATER RISER DIAGRAM

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DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:

P-220.00

SHEET 12 OF 15

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PRESSURE BOOSTING SYSTEM SPECIFICATION

1. FURNISH AND INSTALL AS SHOWN ON PLANS, A FACTORY-ASSEMBLED DUPLEX WATER PRESSURE SYSTEM EQUAL TO SICO SYSTEMS TYPE ULTRA 2300 (QUIMBY EQUIPMENT, FARMINGDALE, NY) OR EQUAL.

2. THE UNIT SHALL INCLUDE TWO (2) MULTI-STAGE, DIFFUSER TYPE, VERTICALLY MOUNTED PUMPS AND HAVE A CAST IRON CASTING, STAINLESS STEEL IMPELLERS, DIFFUSERS AND SHAFT. EACH PUMP SHALL HAVE A SINGLE, TUNGSTEN-CARBIDE MECHANICAL SHAFT SEAL SUBJECT TO SUCTION PRESSURE AND REPLACEABLE WITHOUT DISTURBING THE PIPING CONNECTIONS. EACH PUMP WILL HAVE ITS OWN VFD (VARIABLE FREQUENCY DRIVE) LOCATED WITHIN THE DUPLEX CONTROL PANEL.

3. THE SYSTEM SHALL INCLUDE A PRE-CHARGED CUSHION STORAGE TANK WITH A FLEXIBLE BLADDER FDA APPROVED FOR POTABLE WATER USE. THE TANK SHALL BE RATED FOR MAXIMUM WORKING PRESSURE OF 150 PSIG. DURING PERIODS OF LOW DEMAND THE UNIT SHALL PROVIDE COMPLETE PUMP SHUTDOWN AND UTILIZE THE CUSHION STORAGE TANK TO MAINTAIN CONSTANT SYSTEM PRESSURE BETWEEN PUMP CYCLES.

4. THE SYSTEM SHALL BE FACTORY ASSEMBLED ON A STAINLESS STEEL BASE AND SHALL INCLUDE COPPER SUCTION AND DISCHARGE HEADERS, BRASS/ BRONZE INTERCONNECTING PIPING, A PRESSURE GAUGE FOR EACH HEADER, A BRONZE ISOLATION VALVE ON THE SUCTION AND DISCHARGE OF EACH PUMP AND A TEMPERATURE SENSING PURGE VALVE, TANK CHECK VALVE WITH "ONE WAY FLOW CONTROL" COPPER TUBING WITH SHUT-OFF COCKS FOR GAUGES AND PRESSURE SWITCHES. THE ONLY FIELD CONNECTIONS REQUIRED WILL BE SYSTEM SUCTION, DISCHARGE AND POWER CONNECTION AT THE CONTROL PANEL.

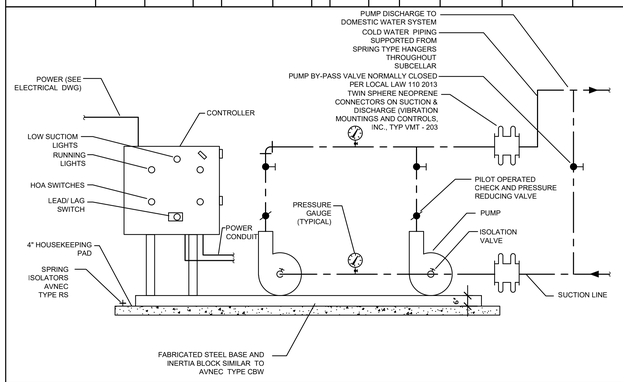
5. THE SYSTEM SHALL INCLUDE A CONTROL PANEL IN A NEMA-1 GENERAL PURPOSE ENCLOSURE, FACTORY MOUNTED AND WIRED IN THE UNIT, COMPRISING A FUSIBLE DISCONNECT SWITCH FOR EACH MOTOR WITH THRU-DOOR OPERATING HANDLES, A MAGNETIC STARTER FOR EACH MOTOR HOA SELECTOR SWITCHES, PILOT LIGHTS, A LEAD-LAG MANUAL TRANSFER SWITCH,REQUIRED TRANSFORMERS, HOLDING CIRCUITS,AND TIME DELAYS, A LAG PUMP CONTROL PRESSURE SWITHC AND A TERMINAL STRIP. FURNISH A LOW SUCTION PRESSURE CUT-OUT SWITH WITH PANEL-FRONT INDICATING LIGHT AND REQUIRED CIRCUITRY WITH TIME DELAY TO STOP PUMPS IF SUCTION PRESSURE DROPS BELOW A PREDETERMINED MINIMUM LEVEL AND ACTIVATES AUDIBLE ALARM.

6. THE SERVICE OF A FACTORY TRAINED REPRESENTATIVE SHALL BE MADE AVAILABLE AT THE JOBSITE TO CHECK INSTALLATION, START-UP AND INSTRUCT OPERATING PERSONNEL ON THE PROPER OPERATION AND MAINTENANCE. THE MANUFACTURER'S REPRESENTATIVE FOR SICO SYSTEMS IS:

THE MANUFACTURREER'S REPRESENTATIVE FOR SICO SYSTEM IS:
QUIMBY EQUIPMENT CO., INC.
35 CENTRAL DRIVE EAST
FARMINGDALE , NY 11735
PHONE: (631) 454-8411 FAX:
(631) 454-8417

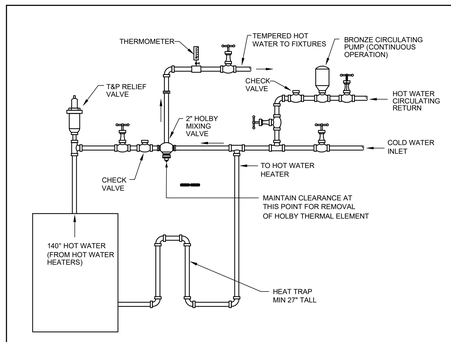
DESIGN DATA

PUMP No.	MODEL No.	GPM	FEET OF HEAD	SHUT-OFF PRESS	HP	VOLTAGE	PHASE	RPM	STORAGE TANK TANK CAPACITY	STORAGE TANK WORKING PRESS	CONSTANT PRESSURE SYSTEM
P-1	3BF	102	95	87#	5	208	3	3500	86	150	VFD
P-2	3BF	102	95	87#	5	208	3	3500			



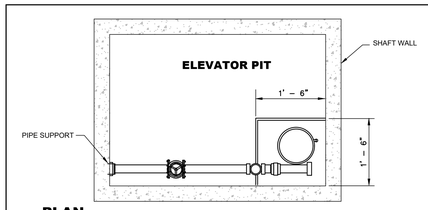
SCHEMATIC OF DUPLEX DOMESTIC WATER BOOSTER PUMPS

NOT TO SCALE

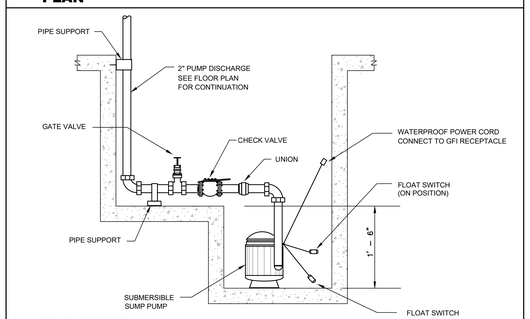


HOT WATER TEMPERING DETAIL

NOT TO SCALE



PLAN



ELEVATION

SPECIFICATION:

FURNISH AND INSTALL WHERE SHOWN ON PLANS, A SINGLE TYPE P SUBMERSIBLE SUMP PUMP UNIT, MODEL # 2P-1/2-4 AS MANUFACTURED BY FEDERAL PUMP CORPORATION. PUMP TO HAVE A CAPACITY OF 10 G.P.M. AGAINST A TOTAL DYNAMIC HEAD OF 25 FT. PUMP TO HAVE 2-INCH N.P.T. DISCHARGE CONNECTION AND TO BE STANDARD-FITTED CONSTRUCTION WITH SUBMERSIBLE SEALED MOTOR, STAINLESS STEEL SHAFT AND WATERPROOF POWER CABLE. MOTOR TO BE 1/2 H.P., 1-PH., 120 VOLTS, 1750 RPM, WITH INTEGRAL FULLY SUBMERSIBLE FLOAT SWITCH, FOR AUTOMATIC CONTROL OF THE PUMP.

ELEVATOR PIT - SUMP PUMP DETAIL

NOT TO SCALE

FURNISH AND INSTALL AS SHOWN ON PLANS A DUPLEX VSA-4F-3/4-4 SUSPENDED WET-PIT SEWAGE PUMP UNIT AS MANUFACTURED BY FEDERAL PUMP CORP. EACH PUMP SHALL BE RATED 50 G.P.M. AT 21 FEET TOTAL DYNAMIC HEAD, SHALL HAVE A 4-INCH DISCHARGE AND BE BUILT FOR A BASIN FOR WHICH THE DEPTH IS DETERMINED BY THE FIELD CONDITIONS.

IMPELLERS SHALL BE CAST IRON NON-CLOG BALANCED DESIGN; SHAFTS CARBON STEEL SIZED FOR MAXIMUM LOAD; THRUST BEARINGS BALL TYPE MOUNTED IN MOISTURE-PROOF HOUSINGS MOUNTED ABOVE THE SUSPENSION PLATE; CASINGS SMOOTH-PASSAGE CAST IRON WITH RENEWABLE BRONZE SLEEVE BEARING; RENEWABLE BRONZE SLEEVE INTERMEDIATE BEARINGS PROVIDED FOR EACH FOUR FEET OF UNSUPPORTED SHAFT LENGTH. FLEXIBLE GREASE LINE SHALL BE PROVIDED FOR EACH SHAFT BEARING; SUSPENSION PLATE CAST IRON WITH STRENGTHENING RIBS; SUSPENSION LEG SECTIONS CAST IRON WITH INTEGRAL CAST FLANGES ON EACH END; DISCHARGE PIPE STEEL WITH EXPANSION JOINTS AT BOTH ENDS; TOP DISCHARGE CONNECTION SHALL BE 45 DEGREE ELBOW WITH INTEGRAL ASA STANDARD FLANGE.

MOTORS SHALL BE 3/4 HP, 3 PHASE, 60 CYCLES, 208 VOLTS, 1750 R.P.M. OPEN, DRIP-PROOF BALL BEARING TYPE.

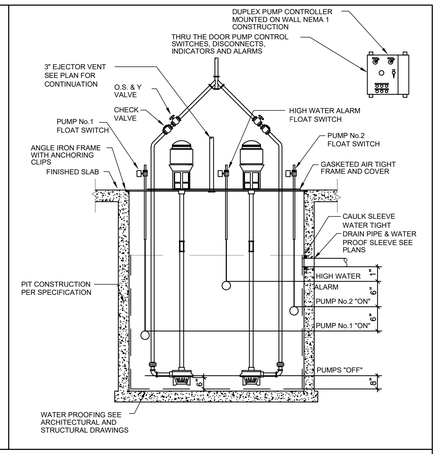
FURNISH A PEDESTAL MOUNTED ALTERNATING FLOAT SWITCH TO ALTERNATE THE OPERATION OF THE PUMPS AND PROVIDE SIMULTANEOUS OPERATION WHEN REQUIRED. FURNISH A PEDESTAL MOUNTED AUXILIARY FLOAT SWITCH TO TURN ON BOTH PUMPS IF THE ALTERNATING FLOAT SWITCH IS INOPERATIVE. THE ALTERNATING AND AUXILIARY FLOAT SWITCHES SHALL HAVE COPPER FLOATS, BRASS RODS, ADJUSTBLE STOPS, GALVANIZED ROD GUIDES AND SHALL BE EQUAL TO FEDERAL TYPE FS-4.

FURNISH A COMPRESSION TUBE TYPE HIGH WATER ALARM ACTUATING SWITCH WITH ADJUSTBLE SENSING TUBE AND INTEGRAL ALARM HORN, EQUAL TO FEDERAL TYPE FS-5.

FURNISH FOR EACH MOTOR A MAGNETIC LINE VOLTAGE STARTER IN WALL MOUNTING GENERAL PURPOSE ENCLOSURE PROVIDING OVERLOAD AND LOW VOLTAGE PROTECTION AND WITH A HAND-OFF-AUTOMATIC SELECTOR SWITCH IN THE COVER. CONTROL PANEL SHALL BE PROVIDED BY FEDERAL PUMP CORP.

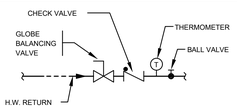
FURNISH A SEWAGE BASIN 36-INCH SQUARE X REQUIRED DEPTH WITH INLET AS DETERMINED BY JOB CONDITIONS. BASIN SHALL HAVE A STEEL COVER WITH REQUIRED OPENINGS FOR PUMPS, CONTROLS, MANHOLE AND VENT CONNECTION AND SHALL BE TREATED WITH A CORROSION RESISTANT COATING.

CONTRACTOR SHALL VERIFY DEPTH WITH FIELD CONDITIONS AND ADJUST AT NO ADDITIONAL COST TO OWNER.



DUPLEX SEWAGE EJECTOR SPECIFICATION and DETAIL

NOT TO SCALE



PROCEDURE FOR BALANCING HOT WATER RETURN PIPING

1. IN ORDER TO BALANCE HOT WATER RETURN TEMPERATURES IN THE RETURN PIPING THIS IS THE PROCEDURE TO BE FOLLOWED:
BEFORE A RETURN CIRCULATION SYSTEM IS PUT INTO SERVICE IT SHOULD BE ADJUSTED FOR RETURN LINE TEMPERATURE BALANCE UNDER CONDITIONS WHEREBY NO WATER IS DRAWN AT THE FIXTURE OUTLETS. FIRST, CLOSE ALL BALANCING VALVES SO THAT ALL CIRCULATION GOES THROUGH BRANCH 1. THEN, OPEN THE BALANCING VALVE ON BRANCH 2 TO THE DEGREE NECESSARY SO THAT IT RETURNS WATER CONSTANTLY AT THE SAME TEMPERATURE AS BRANCH 1. SIMILARLY, ADJUSTMENT MAY BE MADE WITH BALANCING VALVE ON ANY OTHER RISERS OR BRANCHES SO THAT ALL RETURN WATER IS THE SAME TEMPERATURE.

2. CONTRACTOR, AT THE END OF THE PROJECT, TO SUBMIT A REPORT FOR RECORD TO THE ENGINEER THAT THE HOT WATER RETURN CIRCULATION SYSTEM HAS BEEN BALANCED PROPERLY.

HOT WATER RETURN BALANCING ASSEMBLY

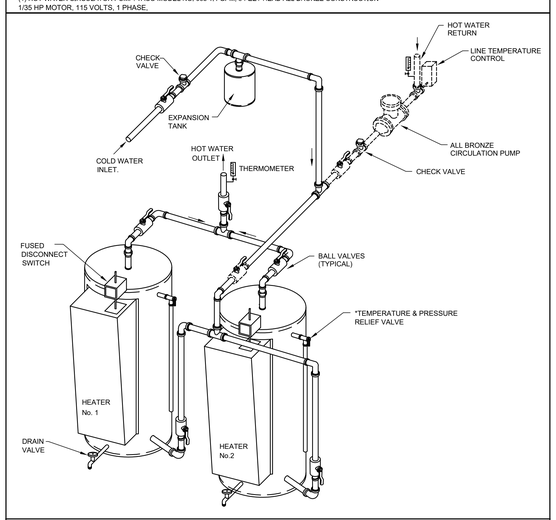
SCHEMATIC ONLY

COMMERCIAL ELECTRIC WATER HEATER SPECIFICATIONS (TYP OF 2)

THE HEATER(S) SHALL BE GOLD SERIES COMMERCIAL ELECTRIC MODEL NUMBER DRE-80-30 AS MANUFACTURED BY A.O. SMITH. HEATER(S) SHALL BE RATED AT 30 kW 208V 3 PHASE. 60 CYCLE AC, AND LISTED BY UNDERWRITERS LABORATORIES AND APPROVED TO THE NSF STANDARD 5 BY UL. TANK(S) SHALL BE 80 GALLON CAPACITY. TANKS SHALL HAVE 150 psi WORKING PRESSURE AND BE EQUIPPED WITH EXTRUDED HIGH DENSITY ANODES. ALL INTERNAL SURFACES OF THE HEATER(S) EXPOSED TO WATER SHALL BE GLASS-LINED WITH AN ALKALINE BOROSILICATE COMPOSITION THAT HAS BEEN FUSED TO STEEL BY FIRING AT A TEMPERATURE RANGE OF 1400°F TO 1600°F. ELECTRIC HEATING ELEMENTS SHALL BE LOW WATT DENSITY. EACH ELEMENT SHALL BE CONTROLLED BY AN INDIVIDUALLY MOUNTED THERMOSTAT AND HIGH TEMPERATURE CUT-OFF SWITCH. ALL INTERNAL CIRCUITS SHALL BE FUSED. THE OUTER JACKET SHALL BE OF BAKED ENAMEL FINISH AND SHALL BE PROVIDED WITH FULL SIZE CONTROL COMPARTMENT FOR PERFORMANCE OF SERVICE AND MAINTENANCE THROUGH HINGED FRONT PANEL AND SHALL ENCLOSE THE TANK WITH FOAM INSULATION. ELECTRICAL JUNCTION BOX WITH HEAVY DUTY TERMINAL BLOCK SHALL BE PROVIDED. THE DRAIN VALVE SHALL BE LOCATED IN THE FRONT FOR EASE OF SERVICING. HEATER TANK SHALL HAVE A THREE YEAR LIMITED WARRANTY AS OUTLINED IN THE WRITTEN WARRANTY. MANUFACTURER SHALL SUPPLY ASME RATED TEMPERATURE AND PRESSURE RELIEF VALVE. FULLY ILLUSTRATED INSTRUCTION MANUAL TO BE INCLUDED. MEETS STANDBY LOSS REQUIREMENTS OF THE U.S. DEPARTMENT OF ENERGY AND CURRENT EDITION OF ASHRAE/IES 90.1.

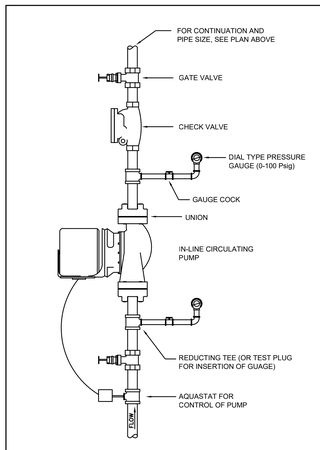
(1) TACO MODEL PAX30-150 TANK VOLUME 8 GAL., ACCEPTANCE VOL. 5 GAL.

(1) HOT WATER CIRCULATOR PUMP: TACO MODEL NO. 005 1.4 GPM, 9 FEET HEAD ALL BRONZE CONSTRUCTION
1/35 HP MOTOR, 115 VOLTS, 1 PHASE.



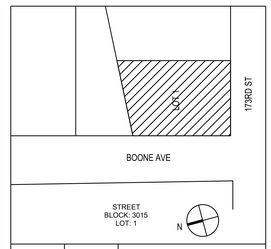
TWIN ELECTRIC HOT WATER HEATER DETAIL

NOT TO SCALE



CIRCULATING PUMP DETAIL

NOT TO SCALE



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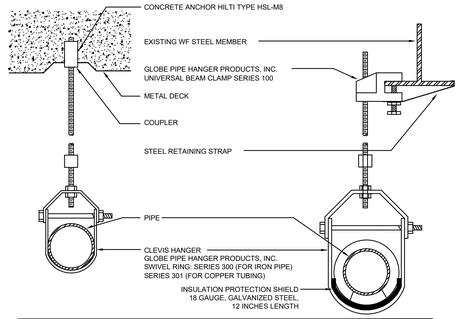
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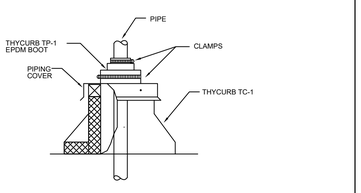
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HANGER ROD SPACING AND SIZE SCHEDULE

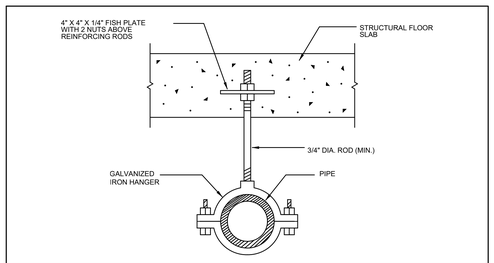
NOM. PIPE SIZE (INCHES)	COPPER TUBE MAX. SPAN (FEET)	CAST-IRON SOIL PIPE MAX. SPAN (FEET)	MINIMUM ROD DIAMETER (INCHES)
UP TO 3/4	5	N/A	3/8
1	6	N/A	3/8
1-1/4	6	N/A	3/8
1-1/2	8	5	3/8
2	8	5	3/8
2-1/2	9	5	1/2
3	10	5	1/2
3-1/2	10	5	1/2
4	10	5	1/2, 5/8 FOR SOIL PIPE
5	10	5	1/2, 5/8 FOR SOIL PIPE
6	10	5	5/8, 3/4 FOR SOIL PIPE
8	10	5	3/4, 7/8 FOR SOIL PIPE
10	10	5	3/4, 7/8 FOR SOIL PIPE
12	10	5	3/4, 1 FOR SOIL PIPE

PLUMBING PIPING CLEVIS HANGER DETAIL
NOT TO SCALE



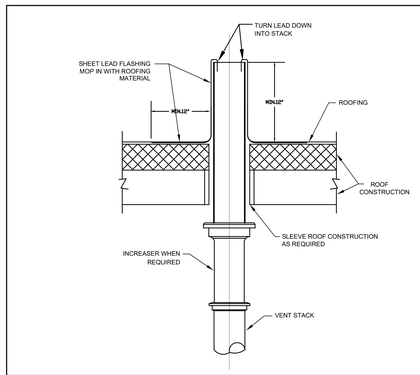
NOTE: 3-1/2" DIAMETER COLLARS ACCOMMODATE PIPES 1/2" TO 2-1/2" NORM.
6-1/2" DIAMETER COLLARS ACCOMMODATE PIPES 3" TO 5" NORM.

DETAIL OF PIPE FLASHING THRU ROOF
NOT TO SCALE

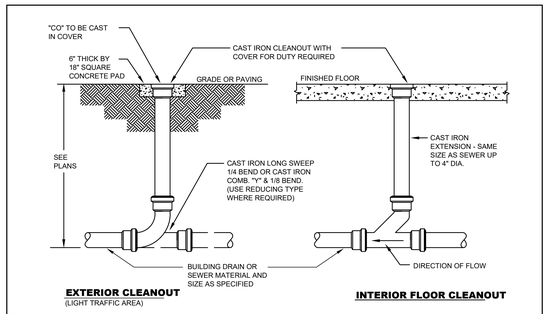


NOTES:
1. PIPE HANGERS TO BE INSTALLED THROUGHOUT
2. HANGERS FOR C.I. DRAINAGE LINES TO BE LOCATED AT A MAXIMUM OF 5'-0" APART. WITHIN 6" OF DOWN STREAM SIDE OF EACH HUB.
3. HANGERS AND RODS SHALL BE PAINTED WITH RED LEAD PAINT OR RUST INHIBITED PAINT.

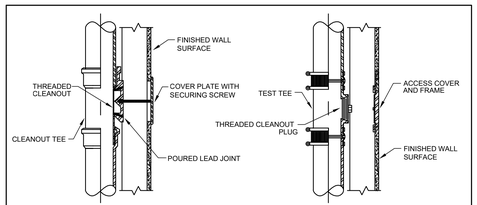
UNDER SLAB PIPE SUPPORT DETAIL
NOT TO SCALE



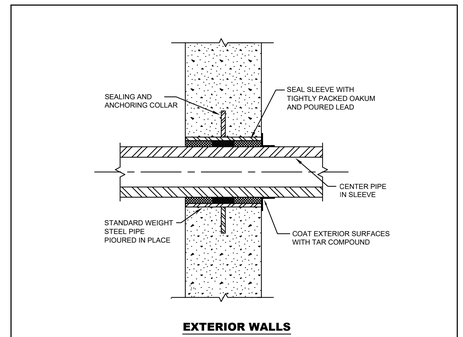
VENT TERMINAL THRU ROOF DETAIL
NOT TO SCALE



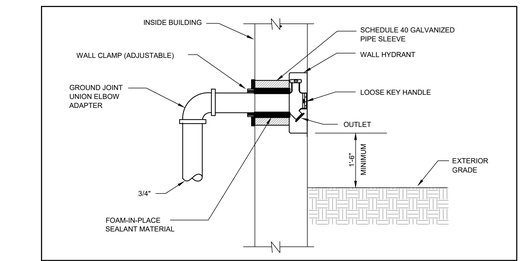
DETAIL OF CLEANOUT WITH DECKPLATE
NOT TO SCALE



DETAIL OF WALL CLEANOUTS
NOT TO SCALE

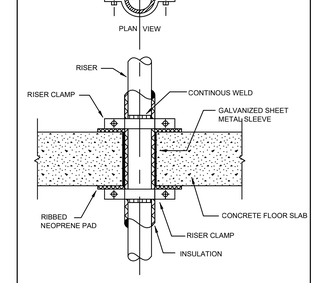


PIPE SLEEVE THRU WALL DETAIL
NOT TO SCALE

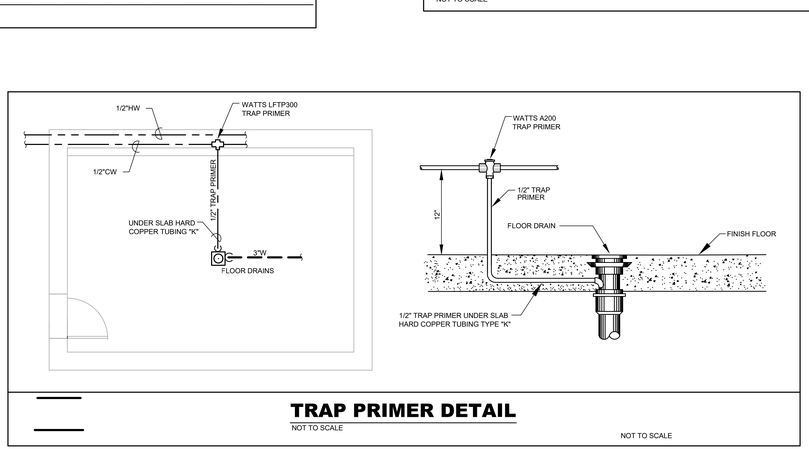


SPECIFICATION:
WALL HYDRANT SHALL BE CONCEALED TYPE WOODFORD AUTOMATIC DRAINING MODEL B65 (OR APPROVED EQUAL) WITH ANTI-SIPHON VACUUM BREAKER, 3/4-INCH HOSE THREAD NOZZLE, ONE PIECE PLUNGER TO CONTROL BOTH FLOW AND DRAIN FUNCTIONS, HARDENED STAINLESS STEEL OPERATING STEM, POLISHED BRASS FINISH ON BRASS CASTINGS. LOOSE TEE KEY TO BE FURNISHED WITH EACH HYDRANT.
CONFIRM WALL THICKNESS WITH ARCHITECTURAL DRAWINGS.

WALL HYDRANT DETAIL
NOT TO SCALE

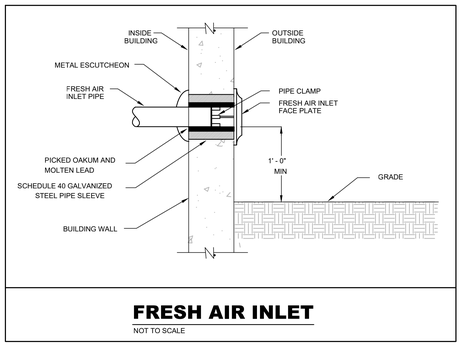


PIPE ANCHOR DETAIL
NOT TO SCALE

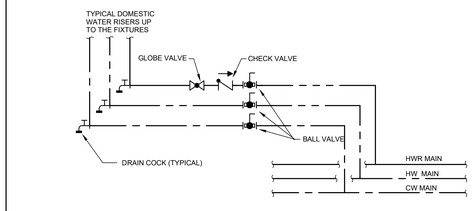


TRAP PRIMER DETAIL
NOT TO SCALE

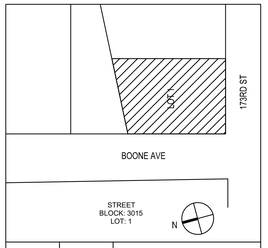
NOT TO SCALE



FRESH AIR INLET
NOT TO SCALE



DOMESTIC WATER RISER VALVE DETAIL
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SHEET 14 OF 15

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THERMOSETTER™ Recirculation thermal balancing valve

CALEFFI

1161 Series ½" - ¾"

Submittal Data 03301 NA — Issue Date 3/2017

Application

THE THERMOSETTER™ ADJUSTABLE THERMAL BALANCING VALVE IS USED FOR AUTOMATIC BALANCING OF RECIRCULATION LOOPS IN DOMESTIC HOT WATER SYSTEMS, TO SPEED HOT WATER DELIVERY, REDUCE WATER WASTE AND SAVE ENERGY. THE INTERNAL THERMOSTATIC BALANCING CARTRIDGE AUTOMATICALLY MODULATES FLOW TO ENSURE A CONSTANT TEMPERATURE IN THE RECIRCULATION PIPING SYSTEM. THE 116 SERIES HAS AN ADJUSTMENT KNOB WITH 95°F TO 140°F (35°C TO 60°C) TEMPERATURE SCALE INDICATION. AN INTEGRAL DRY-WELL HOLDS A SLIDE-IN TEMPERATURE GAUGE FOR LOCAL INDICATION, OR A SENSOR FOR REMOTE TEMPERATURE SENSING. THE OPTIONAL CHECK VALVE PROTECTS AGAINST CIRCUIT THERMO-SYPHONING.

Typical Specification

FURNISH AND INSTALL ON THE PLANS AND DESCRIBING HEREIN, A CALEFFI RECIRCULATION THERMAL BALANCING VALVE, AS MANUFACTURED BY CALEFFI. EACH BALANCING VALVE MUST BE DESIGNED WITH A DZR LOW-LEAD BRASS BODY, AND STAINLESS STEEL & COPPER ADJUSTABLE CARTRIDGE. EPDM SEALS. ABS ADJUSTMENT KNOB. THE BALANCING VALVE MUST INCLUDE ½" OR ¾" NPT FEMALE CONNECTIONS. EACH VALVE HAS 230 PSI (16 BAR) MAXIMUM WORKING PRESSURE AND 95-140°F (35–60°C) ADJUSTABLE TEMPERATURE RANGE. PROVIDE WITH OPTIONAL OUTLET TEMPERATURE GAUGE WITH 30-180°F (0–80°C) TEMPERATURE SCALE, OPTIONAL CHECK VALVE, AND OPTIONAL PRE-FORMED INSULATION SHELL. EACH VALVE SHALL BE CALEFFI MODEL 1161 OR APPROVED EQUAL. (SEE PRODUCT INSTRUCTIONS FOR SPECIFIC INSTALLATION INFORMATION.)

Technical specifications

Materials

Body:	DZR low-lead brass
Adjustable cartridge:	stainless steel & copper
Springs:	stainless steel AISI 302 (EN 10270-3)
Hydraulic seals:	EPDM
Adjustment knob:	ABS

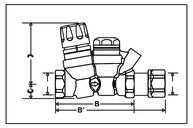
Performance:

Suitable fluid:	water
Max. working pressure:	230 psi (16 bar)
Max. differential pressure:	15 psi (1 bar)
Max. inlet temperature:	195°F (90°C)
Adjustment temperature range:	95-140°F (35–60°C)
Flow Cv (Kv) max:	2.1 (1.8)
Flow Cv (Kv) min:	0.23 (0.2)
Flow Cv (Kv) design:	0.52 (0.45)

Connections:

Main connections:	½" NPT female ¾" NPT female
Temperature gauge/sensor dry-well:	Ø 10 mm metric

LOCATED ON THE HOT WATER RETURN PIPE AT THE BASE OF ALL RISERS
PROVIDE ISOLATION VALVES FOR SERVICE
CONTRACTOR TO SET VALVE TO 110°F



Code	A	b	B**	C	D	Wt (lb/kg)
116140A(C)	½" NPT F	4"	5 7/16"	¾"	3"	1.7 / 0.75
116141A(C)**	½" NPT F	4"	5 7/16"	¾"	3"	1.7 / 0.75
116150A(C)	¾" NPT F	4"	5 5/8"	¾"	3"	1.5 / 0.70
116151A(C)**	¾" NPT F	4"	5 5/8"	¾"	3"	1.5 / 0.70

*Models with check valve (all-piece (C) end-to-end dimension is 6".
**with integral outlet temperature gauge.

Temperature gauge code 116010

Scale:	30 - 180°F (0–80°C)
Diameter:	1½" (40 mm)
Stem diameter:	0.35" (9 mm)

Technical specifications of insulation

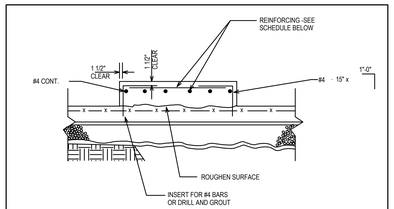
Materials:	closed cell expanded PE-X
Thickness:	½ inch (13 mm)
Density: -internal part:	1.9 lb/ft³ (30 kg/m³)
-external part:	

Thermal conductivity (DIN52612):
- at 32°F (0°C): 0.82 BTU · in/hr · ft² · °F (0.0345 W/(m · K))
- at 105°F (40°C): 0.94 BTU · in/hr · ft² · °F (0.0398 W/(m · K

Coefficient of resistance to the diffusion of vapor:	> 1,300
Working temperature range:	32–212°F (0–100°C)
Flammability (ASTM D 635):	Class VO
Certifications:	NSF/ANSI 372-2011, low lead certified by ICC-ES, file PMG-13

DOMESTIC WATER BALANCING VALVE

NOT TO SCALE



NOTE:

1. SEE MECH. AND ELECTRICAL DWGS. FOR EXACT SIZE AND LOCATION OF PADS.

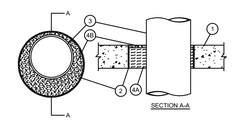
2. CONCRETE PAD SHALL EXTEND 4" BEYOND EQUIPMENT ON ALL SIDES.

PAD THICKNESS	REINFORCING
<4"	4x4- W4xW4 W.W.F.
4"-8"	#4 12" E.W.
>8"	#5 12" E.W.

HOUSEKEEPING PAD

NOT TO SCALE

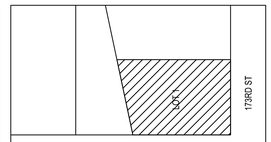
TREMCO - UL SYSTEM NO. C-AJ-1064
F RATINGS - 2, 3 & 4 HR



1. FLOOR OR WALL ASSEMBLY - MAX DIAM OF SLEEVED OPENING IS 32 IN. (813 MM).
2. STEEL SLEEVE - NOM 32 IN. (813 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, FLUSH WITH BOTH SURFACES OF FLOOR OR WALL. AS AN OPTION, SLEEVE MAY EXTEND MAX 2 IN. ABOVE TOP SURFACE OF FLOOR OR BEYOND ONE OR BOTH SURFACES OF WALL. STEEL SLEEVE MAY BE USED IN 2 AND 3 HR F RATED SYSTEMS ONLY.
3. THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
4. FIRESTOP SYSTEM.
A. PACKING MATERIAL — MIN 3-1/2, 4-1/4 OR 5 IN. (89, 108 OR 127 MM) THICKNESS OF MIN 4.0 OR 6.0 PCF (64) MINERAL WOOL BATT INSULATION.
B. FILL, VOID OR CAVITY MATERIAL* - CAULK - MIN 1/4 OR 1/2 IN. (6 OR 13 MM) THICKNESS OF FILL MATERIAL.

PIPE FIRESTOPPING DETAIL

NOT TO SCALE



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New York City SPRINKLER CODE COMPLIANCE NOTES

1. THE INSTALLATION COMPONENT, SIZING, SPACING, CLEARANCES, AND TYPE OF SYSTEMS SHALL CONFORM TO NFPA 13-2007 AS MODIFIED BY SECTION BC Q102
2. ONLY APPROVED MATERIALS SHALL BE USED AS PER CHAPTER 6 OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
3. DIRECT CONNECTION OF SPRINKLERS TO THE PUBLIC WATER SYSTEM SHALL CONFORM TO CHAPTER 23 OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
4. SPRINKLERS SHALL BE PROTECTED AGAINST FREEZING AND INJURY AS PER SECTION 7.2.5.1 AND 7.3.1.8.1 OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
5. INSPECTIONS AND TESTS OF SPRINKLERS SHALL BE CONDUCTED AS PER CHAPTER 26 OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
6. THE OCCUPANCY OF THE AREAS ARE TO BE SPRINKLED AS PER CHAPTER 5 OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
7. WATER SUPPLY TEST PIPES AND GAUGES SHALL BE PROVIDED AS PER SECTION 22.2 OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
8. PIPING, FITTINGS, SPECIFICATIONS, PIPE SCHEDULES, SYSTEM TEST PIPES, PROTECTION AGAINST CORROSION, DAMAGE, VALVES, HANGERS, SPRINKLERS GUARDS AND SHIELDS SHALL BE AS PER CHAPTERS 8 AND 9 OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
9. STOCK OF EXTRA SPRINKLERS SHALL BE FURNISHED AS PER SECTION 6.2.9 OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
10. SPRINKLER ALARM WILL BE IN ACCORDANCE WITH SECTION 8.17.1. OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
11. SPACING, LOCATION AND POSITION OF SPRINKLER WILL BE AS PER SECTION 8.5 OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
12. ALL BLIND SPACES EXCEEDING 6" IN WIDTH OR DEPTH WHICH CONTAIN COMBUSTIBLE MATERIAL WILL BE SPRINKLED.
13. ALL PIPES PASSING THROUGH WALLS SHALL COMPLY WITH SECTION BC 712 OF THE 2014 NYC BUILDING CODE.
14. THERE IS NO HIGH PILE STORAGE AS DEFINED IN SECTION 3.9.1.13 OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
15. DISTANCE OF SPRINKLERS FROM HEAT SOURCES SHALL BE AS PER TABLES 8.3.2.5(a) AND 8.3.2.5(c) OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
16. AS PER BC SECTION 903.1.2 (5) PROVIDE DEPARTMENT OF WATER SUPPLY LETTER WITH FLOW TEST DATA IF THERE IS A DIRECT CONNECTION TO THE STREET WATER SUPPLY.
17. ALL PIPES PASSING THROUGH FOUNDATION WALLS SHALL BE PROTECTED AS PROVIDED NYC PC SECTION PC 305.5.
18. THIS APPLICATION IS NOT FILED AS A RESULT OF BY THE FIRE COMMISSIONER AS AUTHORIZED BY BS&A TO MODIFY THE CERTIFICATE OF OCCUPANCY NOR IS SUCH ACTION PENDING.
19. ALL VALVES SHALL BE IDENTIFIED AS REQUIRED BY SECTION 6.7.1.3 OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
20. DRAINAGE TO CONFORM TO SECTION 7.8.4.1 OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
21. A ONE PIECE REDUCING FITTING OF GOOD DESIGN SHOULD BE USED WHEREVER A CHANGE IS MADE IN THE SIZE OF PIPE AS PER SECTION 6.4.6 OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
22. ALL VALVES ON CONNECTIONS TO WATER SUPPLY TO SPRINKLERS SHALL BE APPROVED O.S. & Y. OR APPROVED INDICATOR TYPE.
23. DRAIN VALVES AND TEST VALVES SHALL BE APPROVED TYPE AS PER SECTION 6.7.3 OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
24. HANGERS SHOULD BE SUPPORTED BY IRON U TYPE OR APPROVED ADJUSTABLE HANGERS. HANGERS SHALL BE A TYPE APPROVED FOR USE WITH THE PIPE OR TUBE INVOLVED AS PER CHAPTER 9 OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
25. PROVISIONS SHOULD BE MADE TO FACILITATE FLUSHING SYSTEM PIPING BY PROVIDING FLUSHING CONNECTION CONSISTING OF A CAPPED NIPPLE 4" LONG ON END OF A CROSS MAIN AS PER SECTION 8.16.3 OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
26. SPRINKLERS SHALL BE AN APPROVED TYPE AS PER SECTION 6.2 OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
27. TEMPERATURE RATING SHALL COMPLY WITH SECTION 6.2.5 OF NFPA 13-2007 AS MODIFIED BY SECTION BCQ102.
28. 18" MINIMUM CLEARANCE TO BELOW SPRINKLER DEFLECTOR AS PER CHAPTER 8 OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
29. SPACING AND LOCATION OF SPRINKLERS SHALL COMPLY WITH SECTION 8.5 OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
30. SPRINKLER SYSTEM COMPLIES WITH NFPA 13-2007 AS MODIFIED BY APPENDIX Q, SECTION BC Q102.
31. SOURCES OF WATER SUPPLY FOR SPRINKLER SYSTEMS AS PER CHAPTER 23 OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
32. PIPE SCHEDULE SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION 22.5 OF NFPA 13-2007 AS MODIFIED BY SECTION BC Q102.
33. AUTOMATIC INTERLOCK CUTOFF SWITCH FOR VENTILATION WILL CONFORM TO CHAPTER 6 OF THE MECHANICAL CODE (APPLICABLE ONLY IF THERE IS AN AIR SYSTEM UTILIZING RECIRCULATED AIR AND REQUIRING A THERMOSTATIC DEVICE).
34. HYDRAULICALLY DESIGNED SPRINKLER SYSTEMS SHALL BE IN ACCORDANCE WITH CHAPTER 22 OF NFPA 13-2007 AS MODIFIED BY SECTION BCQ102.
35. MINIMUM BRANCH PIPE SIZE TO BE ONE INCH (1").
36. THIS APPLICATION IS MADE ONLY FOR THE WORK INDICATED ON THE SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

SPRINKLER LEGEND

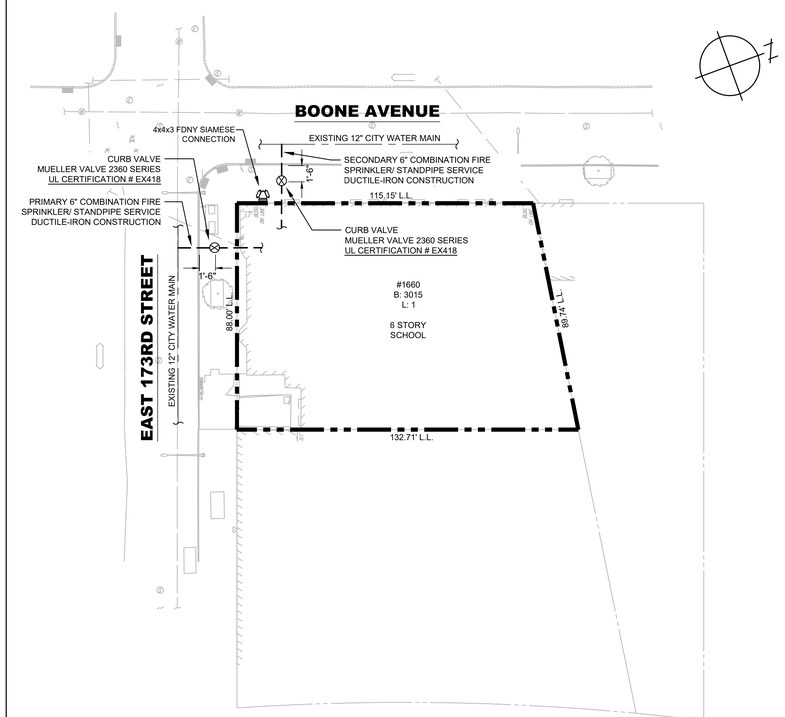
SYMBOL	DESCRIPTION
———	NEW SPRINKLER PIPING NEW, SCHEDULE 40, BLACK STEEL, WITH THREADED ENDS USE CAST- OR MALLEABLE-IRON FITTINGS(150PSI) AND THREADED JOINTS
●	APPLICATION: RESIDENTIAL AREAS ONLY NEW CONCEALED FAST RESPONSE PENDENT SPRINKLER HEAD RELIABLE MODEL RFC49, 1/2-INCH THREAD & ORIFICE, 4.9 K-FACTOR, 165 DEGREE SPRINKLER HEAD RATING,135 DEGREE COVER PLATE RATING, 1/2-INCH ADJUSTABLE, (SIN RA0615) 12 x 12 SPACING: MINIMUM REQUIRED FLOW 13 GPM AT 7.0 PSI 14 x 14 SPACING: MINIMUM REQUIRED FLOW 13 GPM AT 7.0 PSI 16 x 16 SPACING: MINIMUM REQUIRED FLOW 13 GPM AT 7.0 PSI 18 x 18 SPACING: MINIMUM REQUIRED FLOW 17 GPM AT 12.0 PSI 20 x 20 SPACING: MINIMUM REQUIRED FLOW 20 GPM AT 16.7 PSI MINIMUM SPACING: 8-FEET
● INT	APPLICATION: INTERMEDIATE TEMPERATURE HEADS (I.E. KITCHENS / MECHANICAL ROOMS) NEW CONCEALED QUICK RESPONSE PENDENT SPRINKLER HEAD RELIABLE MODEL QS-56, 1/2-INCH THREAD, 1/2-INCH ORIFICE, 5.6 K-FACTOR 212 DEGREE SPRINKLER HEAD RATING,165 DEGREE COVER PLATE RATING, 3/4-INCH ADJUSTABLE, (SIN RA3415) 16 x 16 SPACING: MINIMUM REQUIRED FLOW 13 GPM AT 7.0 PSI
●C	APPLICATION: COMMERCIAL AREAS ONLY NEW CONCEALED QUICK RESPONSE PENDENT SPRINKLER HEAD RELIABLE MODEL QS-56, 1/2-INCH THREAD, 1/2-INCH ORIFICE, 5.6 K-FACTOR 165 DEGREE SPRINKLER HEAD RATING,165 DEGREE COVER PLATE RATING, 3/4-INCH ADJUSTABLE, (SIN RA3415)
	APPLICATION: DRY AREA ONLY NEW STANDARD RESPONSE DRY-STICK SIDEWALL SPRINKLER HEAD RELIABLE MODEL F3RES 44 DRY 1-INCH NPT THREAD, 1/4-INCH ADJUSTABLE 4.4 K-FACTOR, 155 DEGREE TEMP. RATING, (SIN RA5231) 14 x 14 SPACING: MINIMUM REQUIRED FLOW 14 GPM AT 10.1 PSI
◄	APPLICATION: SIDEWALL HEAD NEW SIDEWALL, FAST RESPONSE, SPRINKLER HEAD RELIABLE MODEL F1RES 44 HSW/F2, 1/2-INCH THREAD, 3/8-INCH ORIFICE, 4.4 K-FACTOR, 155 DEGREE TEMP. RATING, 1/2-INCH ADJUSTABLE, (SIN R3531) 16 x 18 SPACING: MINIMUM REQUIRED FLOW 18 GPM AT 16.8 PSI
	GATE VALVE (OS&Y) OUTSIDE STEM & YOKE TYPE VIKING MODEL OF250 C.I. UL CERTIFICATION # EX15003
	CHECK VALVE WITH AUTO BALL DRIP VIKING CORP MODEL G-1 UL CERTIFICATION #EX1299
TS	TAMPER SWITCH POTTER MODEL TSW-2X UL CERTIFICATION #BP212B
WF	WATER FLOW INDICATOR SWITCH POTTER VSR UL CERTIFICATION # S309
FDC	NEW FLUSH TYPE, FIRE DEPARTMENT SIAMESE CONNECTION INSTALL 18 TO 36 INCHES ABOVE GRADE CROKER MODEL 6405 UL CERTIFICATION # EX1158
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
FMRC	FACTORY MUTUAL RESEARCH CORPORATION
AHJ	AUTHORITY HAVING JURISDICTION
FPC	FIRE PROTECTION CONTRACTOR
PBC	PLUMBING CONTRACTOR
BFP	BACK FLOW PREVENTOR

REFERENCED STANDARD

NFPA 13-2007 AS MODIFIED BY APPENDIX Q OF NYC BUILDING CODE

ECCCNYS COMPLIANCE

WORK IS EXEMPT FROM ENERGY CODE REQUIREMENTS BASED UPON SP WORK TYPE (REFER TO PW1 FORM)



PLOT DIAGRAM

SCHEMATIC ONLY

SPECIAL and PROGRESS INSPECTIONS

INSPECTIONS AND TESTS	CODE/SECTION
X Sprinkler Systems	BC 1704.23

LIST OF DRAWINGS

DWG. NO.	TITLE
SP-010	SPRINKLER NOTES, LEGEND, PLOT PLAN AND RISER DIAGRAM
SP-100	CELLAR SPRINKLER PLAN
SP-101	FIRST FLOOR SPRINKLER PLAN
SP-102	SECOND FLOOR SPRINKLER PLAN
SP-103	THIRD THRU FIFTH FLOOR SPRINKLER PLAN
SP-104	SIXTH FLOOR SPRINKLER PLAN
SP-105	ROOF SPRINKLER PLAN
SP-200	SPRINKLER RISER DIAGRAM AND FIRE PUMP SPECIFICATIONS
SP-400	GENERAL SPRINKLER DETAILS

HYDROSTATIC PRESS. TEST

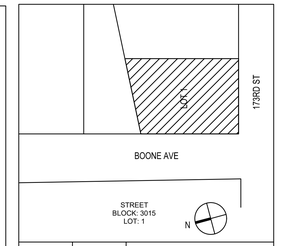
THE SYSTEM SHALL BE HYDROSTATICALLY TESTED FOR LEAKAGE AT 200 PSI FOR 2 HOURS

PAINTING REQUIREMENT

PAINTING OF SPRINKLER PIPING AND VALVES SHALL COMPLY WITH LL58/2009

SPRINKLER SYSTEM TYPE

THIS SPRINKLER SYSTEM IS A WET PIPE SYSTEM IN ALL AREAS OF THIS BUILDING



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

ARCHITECT
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DOB XXXXXX

PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

SPRINKLER/ STANDPIPE DETAILS

Seal & Signature:

DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:

SP-010.00

SHEET 01 OF 09

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SPRINKLER PLAN NOTES

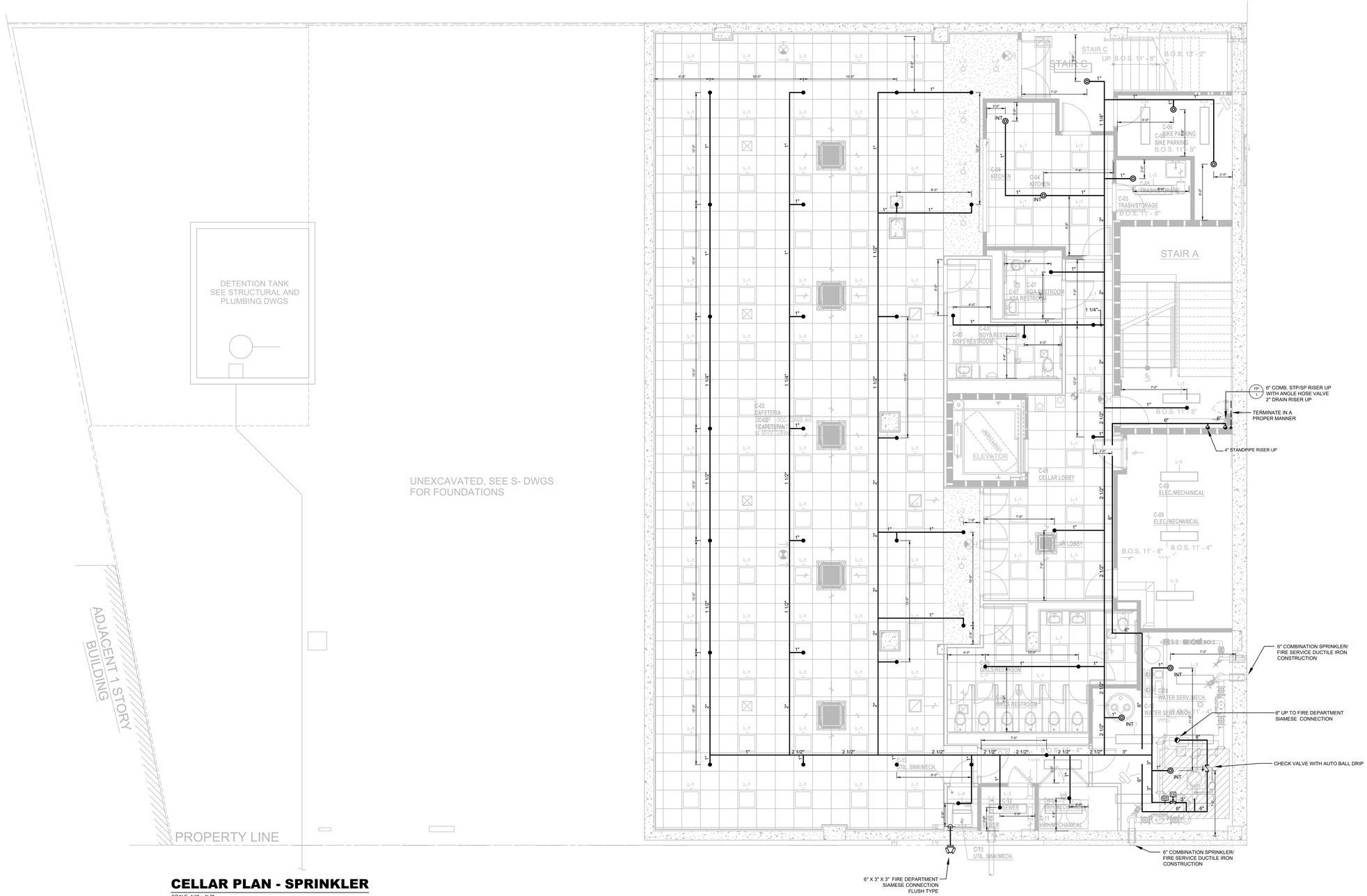
1. SPRINKLER CONTRACTOR SHALL BE A LICENSED, AUTHORIZED INSTALLER OF SPRINKLER SYSTEMS BY THE LOCALITY, AND HAVE MINIMUM OF 5 YEARS EXPERIENCE IN THE INSTALLATION OF SAID SYSTEMS.
2. SPRINKLER CONTRACTOR SHALL INFORM ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR REQUEST FOR CLARIFICATION IN WRITING, IF NECESSARY, CONCERNING THE INTENT OF THE PLANS TO PROVIDE A COMPLETE INSTALLATION. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, MATERIALS, ETC. SHOULD SUCH PROCEDURE NOT BE FOLLOWED.
3. THE SPRINKLER SYSTEM SHALL BE COMPLETE WITH ALL PIPE, FITTINGS, VALVES, DRAINAGE SYSTEM AND VALVES SPRINKLER HEADS, HANGERS AND SUPPORTS, MISCELLANEOUS APPURTENANCES NECESSARY FOR A COMPLETE SATISFACTORY OPERATING, AND APPROVED SYSTEM.
4. INSTALLATION SHALL CONFORM IN ALL RESPECTS TO NEW YORK CITY BUILDING CODE.
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6. ALL NEW PENDANT SPRINKLER HEADS SHALL BE CENTERED IN THEIR RESPECTIVE CEILING TILES. (IF APPLICABLE)
7. THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN A WORK PERMIT FROM THE AUTHORITY HAVING JURISDICTION AND SECURE ALL NECESSARY APPROVALS AND PERMITS PRIOR TO INSTALLATION. UPON COMPLETION OF THE WORK THE SPRINKLER CONTRACTOR SHALL OBTAIN THE REQUIRED SIGN-OFFS FROM EACH OF THE RESPECTIVE AGENCIES.
8. THE CONTRACTOR SHALL VISIT THE PREMISES TO DETERMINE EXISTING CONDITIONS AND COMPARE SAME WITH DRAWINGS AND SATISFY HIMSELF OF ALL CONDITIONS PRIOR TO THE SUBMISSION OF A BID PROPOSAL. NO ALLOWANCE WILL BE MADE FOR FAILURE TO COMPLY WITH THESE REQUIREMENTS AND BID PROPOSAL SHALL BE CONSTRUED AS EVIDENCE HE HAS DONE SO.
9. THE CONTRACTOR SHALL PROVIDE AN INDEPENDENT ENGINEER LICENSED IN THE STATE OF NEW YORK TO PROVIDE THE CONTROLLED INSPECTION (TR-1) FORM FOR THE SPRINKLER HYDROSTATIC TEST (PER SECTION 27-967).
10. ALL HEADS MORE THAN 6'-0" FROM A WALL MUST BE EXTENDED COVERAGE HEADS.
11. ALL HEADS IN THE KITCHENS MUST BE INTERMEDIATE TEMPERATURE SPRINKLER HEADS
12. ALL WASHER/DRYER CLOSETS NEED INTERMEDIATE TEMPERATURE SPRINKLER HEADS.
13. ALL PENDENT SPRINKLER HEADS SHALL BE LOCATED AT LEAST 2 FEET FROM OBSTRUCTIONS SUCH AS CEILING FANS AND LIGHT FIXTURES.

DESIGN CRITERIA

SYSTEM TYPE: WET PIPE SPRINKLER SYSTEM	
OCCUPANCY HAZARD CLASSIFICATION:	EDUCATIONAL BUILDING LIGHT HAZARD
AREA OF SPRINKLER OPERATION:	PER LIGHT HAZARD MAX 225 SQUARE FEET PER HEAD
PIPE MATERIAL:	2" OR LESS SCHEDULE 40 BLACK STREEL 2-1/2" OR MORE SCHEDULE 10 BLACK STEEL
PIPE SIZE BASIS:	BY HYDRAULIC CALCULATION
MINIMUM DESIGN DENSITY:	0.10 GPM / SQ.FT.

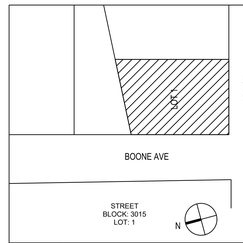
SPRINKLER HEAD SCHEDULE

SYMBOL	COUNT	K-FACTOR	DESCRIPTION	NOTE
●	39	5.6	RELIABLE MODEL G5-56 5.6 K-FACTOR 165 DEGREE SPRINKLER HEAD RATING, 165 DEGREE COVER PLATE RATING, 3/4-INCH ADJUSTABLE, (SIN RA3415)	CONCEALED
			15 x 15 SPACING: REQUIRES 13 GPM AT 7 PSI MINIMUM SPACING: 6-FEET - 6-INCHES BETWEEN HEADS MINIMUM DISTANCE FROM WALL: 4-INCHES	
◎	4	5.6	RELIABLE MODEL F1FR56 5.6 K-FACTOR, 155 DEGREE SPRINKLER HEAD RATING, RED BULB, 1/2-INCH ADJUSTABLE, (SIN RA1425)	UPRIGHT
			15 x 15 SPACING: REQUIRES 13 GPM AT 7.0 PSI MINIMUM SPACING: 6-FEET 6-INCHES BETWEEN HEADS MINIMUM DISTANCE FROM WALL: 4-INCHES	
◎ INT	5	5.6	RELIABLE MODEL F1FR56 5.6 K-FACTOR, 200 DEGREE SPRINKLER HEAD RATING, GREEN BULB, (SIN RA1414)	UPRIGHT
			15 x 15 SPACING: REQUIRES 13 GPM AT 7.0 PSI MINIMUM SPACING: 6-FEET 6-INCHES BETWEEN HEADS MINIMUM DISTANCE FROM WALL: 4-INCHES	



CELLAR PLAN - SPRINKLER

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



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

ARCHITECT
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DOB XXXXXX

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
CELLAR SPRINKLER PLAN

Seal & Signature:

DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:
SP-100.00
SHEET 02 OF 09

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SPRINKLER PLAN NOTES

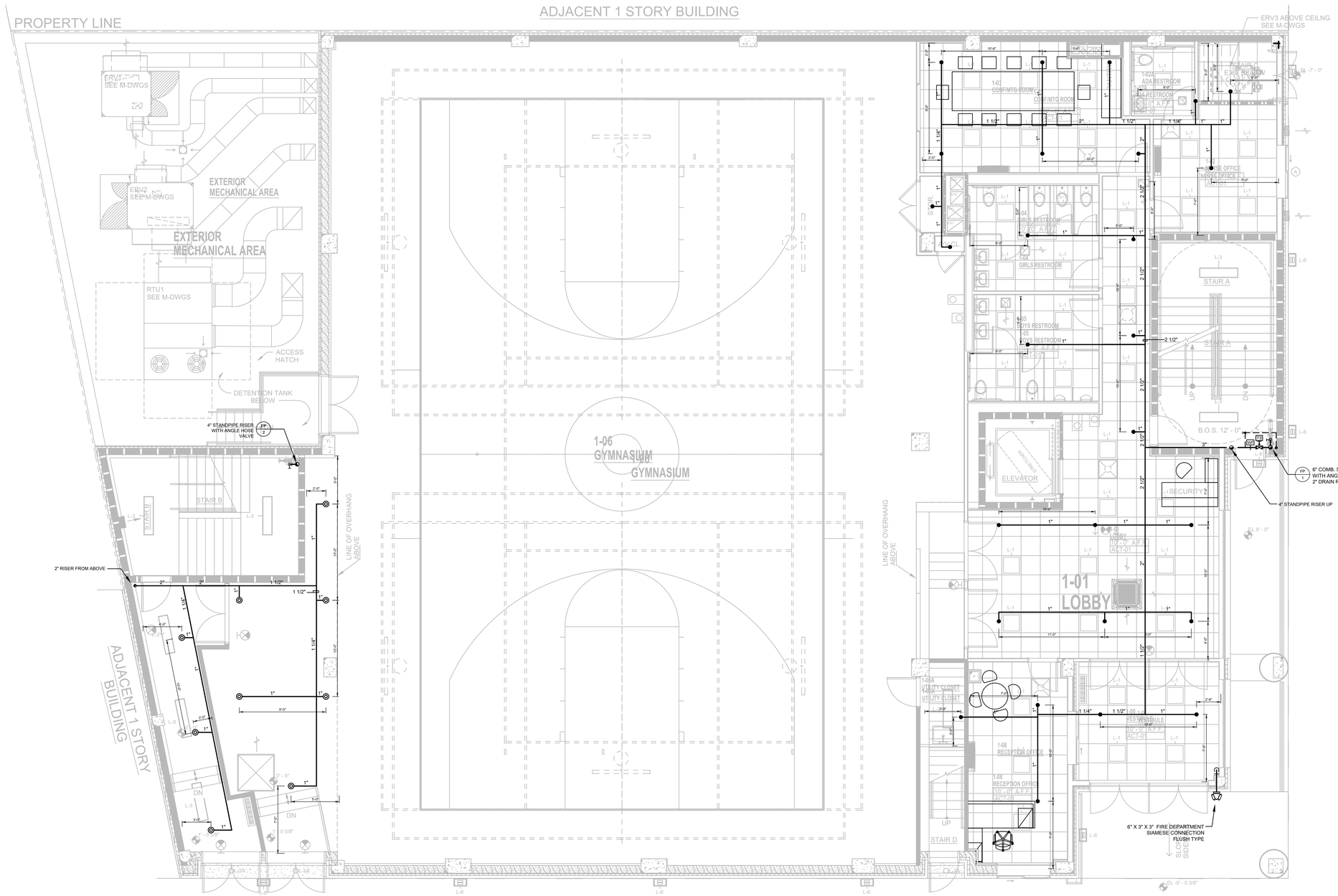
1. SPRINKLER CONTRACTOR SHALL BE A LICENSED, AUTHORIZED INSTALLER OF SPRINKLER SYSTEMS BY THE LOCALITY, AND HAVE MINIMUM OF 5 YEARS EXPERIENCE IN THE INSTALLATION OF SAID SYSTEMS.
2. SPRINKLER CONTRACTOR SHALL INFORM ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR REQUEST FOR CLARIFICATION IN WRITING, IF NECESSARY, CONCERNING THE INTENT OF THE PLANS TO PROVIDE A COMPLETE INSTALLATION. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, MATERIALS, ETC. SHOULD SUCH PROCEDURE NOT BE FOLLOWED.
3. THE SPRINKLER SYSTEM SHALL BE COMPLETE WITH ALL PIPE, FITTINGS, VALVES, DRAINAGE SYSTEM AND VALVES SPRINKLER HEADS, HANGERS AND SUPPORTS, MISCELLANEOUS APPURTENANCES NECESSARY FOR A COMPLETE SATISFACTORY OPERATING, AND APPROVED SYSTEM.
4. INSTALLATION SHALL CONFORM IN ALL RESPECTS TO NEW YORK CITY BUILDING CODE.
5. SPRINKLER CONTRACTOR SHALL PREPARE ACCURATE SHOP DRAWINGS INDICATING ALL SPRINKLER HEADS, PIPING, FITTINGS AND VALVES REQUIRED FOR A COMPLETE SYSTEM.
6. ALL NEW PENDANT SPRINKLER HEADS SHALL BE CENTERED IN THEIR RESPECTIVE CEILING TILES. (IF APPLICABLE)
7. THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN A WORK PERMIT FROM THE AUTHORITY HAVING JURISDICTION AND SECURE ALL NECESSARY APPROVALS AND PERMITS PRIOR TO INSTALLATION. UPON COMPLETION OF THE WORK THE SPRINKLER CONTRACTOR SHALL OBTAIN THE REQUIRED SIGN-OFFS FROM EACH OF THE RESPECTIVE AGENCIES.
8. THE CONTRACTOR SHALL VISIT THE PREMISES TO DETERMINE EXISTING CONDITIONS AND COMPARE SAME WITH DRAWINGS AND SATISFY HIMSELF OF ALL CONDITIONS PRIOR TO THE SUBMISSION OF A BID PROPOSAL. NO ALLOWANCE WILL BE MADE FOR FAILURE TO COMPLY WITH THESE REQUIREMENTS AND BID PROPOSAL SHALL BE CONSTRUED AS EVIDENCE HE HAS DONE SO.
9. THE CONTRACTOR SHALL PROVIDE AN INDEPENDENT ENGINEER LICENSED IN THE STATE OF NEW YORK TO PROVIDE THE CONTROLLED INSPECTION (TR-1) FORM FOR THE SPRINKLER HYDROSTATIC TEST (PER SECTION 27-967).
10. ALL HEADS MORE THAN 6'-0" FROM A WALL MUST BE EXTENDED COVERAGE HEADS.
11. ALL HEADS IN THE KITCHENS MUST BE INTERMEDIATE TEMPERATURE SPRINKLER HEADS
12. ALL WASHER/DRYER CLOSETS NEED INTERMEDIATE TEMPERATURE SPRINKLER HEADS.
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DESIGN CRITERIA

SYSTEM TYPE: WET PIPE SPRINKLER SYSTEM	
OCCUPANCY HAZARD CLASSIFICATION:	EDUCATIONAL BUILDING LIGHT HAZARD
AREA OF SPRINKLER OPERATION:	PER LIGHT HAZARD MAX 225 SQUARE FEET PER HEAD
PIPE MATERIAL:	2" OR LESS SCHEDULE 40 BLACK STREEL 2-1/2" OR MORE SCHEDULE 10 BLACK STEEL
PIPE SIZE BASIS:	BY HYDRAULIC CALCULATION
MINIMUM DESIGN DENSITY:	0.10 GPM / SQ.FT.

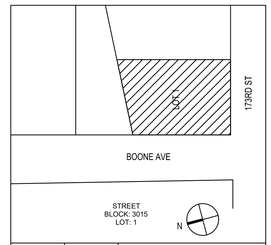
SPRINKLER HEAD SCHEDULE

SYMBOL	COUNT	K-FACTOR	DESCRIPTION	NOTE
●	27	5.6	RELIABLE MODEL G5-56 5.6 K-FACTOR 165 DEGREE SPRINKLER HEAD RATING, 165 DEGREE COVER PLATE RATING, 3/4-INCH ADJUSTABLE, (SIN RA3415) 15 x 15 SPACING: REQUIRES 13 GPM AT 7 PSI MINIMUM SPACING: 6-FEET - 6-INCHES BETWEEN HEADS MINIMUM DISTANCE FROM WALL: 4-INCHES	CONCEALED
⊙	9	5.6	RELIABLE MODEL F1FR56 5.6 K-FACTOR, 155 DEGREE SPRINKLER HEAD RATING, RED BULB, 1/2-INCH ADJUSTABLE, (SIN RA1425) 15 x 15 SPACING: REQUIRES 13 GPM AT 7.0 PSI MINIMUM SPACING: 6-FEET 6-INCHES BETWEEN HEADS MINIMUM DISTANCE FROM WALL: 4-INCHES	UPRIGHT
⊙ INT	--	5.6	RELIABLE MODEL F1FR56 5.6 K-FACTOR, 200 DEGREE SPRINKLER HEAD RATING, GREEN BULB, (SIN RA1414) 15 x 15 SPACING: REQUIRES 13 GPM AT 7.0 PSI MINIMUM SPACING: 6-FEET 6-INCHES BETWEEN HEADS MINIMUM DISTANCE FROM WALL: 4-INCHES	UPRIGHT



FIRST FLOOR PLAN - SPRINKLER

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



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

ARCHITECT
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M.E.P. Engineer
SIDERIS KEFALAS ENGINEERS, P.C.
217-22 NORTHERN BLVD. SUITE 1
BAYSIDE, NY 11361
(718)-224-9091

DOB XXXXXX

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
FIRST FLOOR SPRINKLER PLAN

Seal & Signature:

DATE:	06/06/19
PROJECT #:	19-0514
DWG SCALE:	AS SHOWN
DRAWING NO.:	SP-101.00
SHEET	03 OF 09

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SPRINKLER PLAN NOTES

1. SPRINKLER CONTRACTOR SHALL BE A LICENSED, AUTHORIZED INSTALLER OF SPRINKLER SYSTEMS BY THE LOCALITY, AND HAVE MINIMUM OF 5 YEARS EXPERIENCE IN THE INSTALLATION OF SAID SYSTEMS.
2. SPRINKLER CONTRACTOR SHALL INFORM ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR REQUEST FOR CLARIFICATION IN WRITING, IF NECESSARY, CONCERNING THE INTENT OF THE PLANS TO PROVIDE A COMPLETE INSTALLATION. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, MATERIALS, ETC. SHOULD SUCH PROCEDURE NOT BE FOLLOWED.
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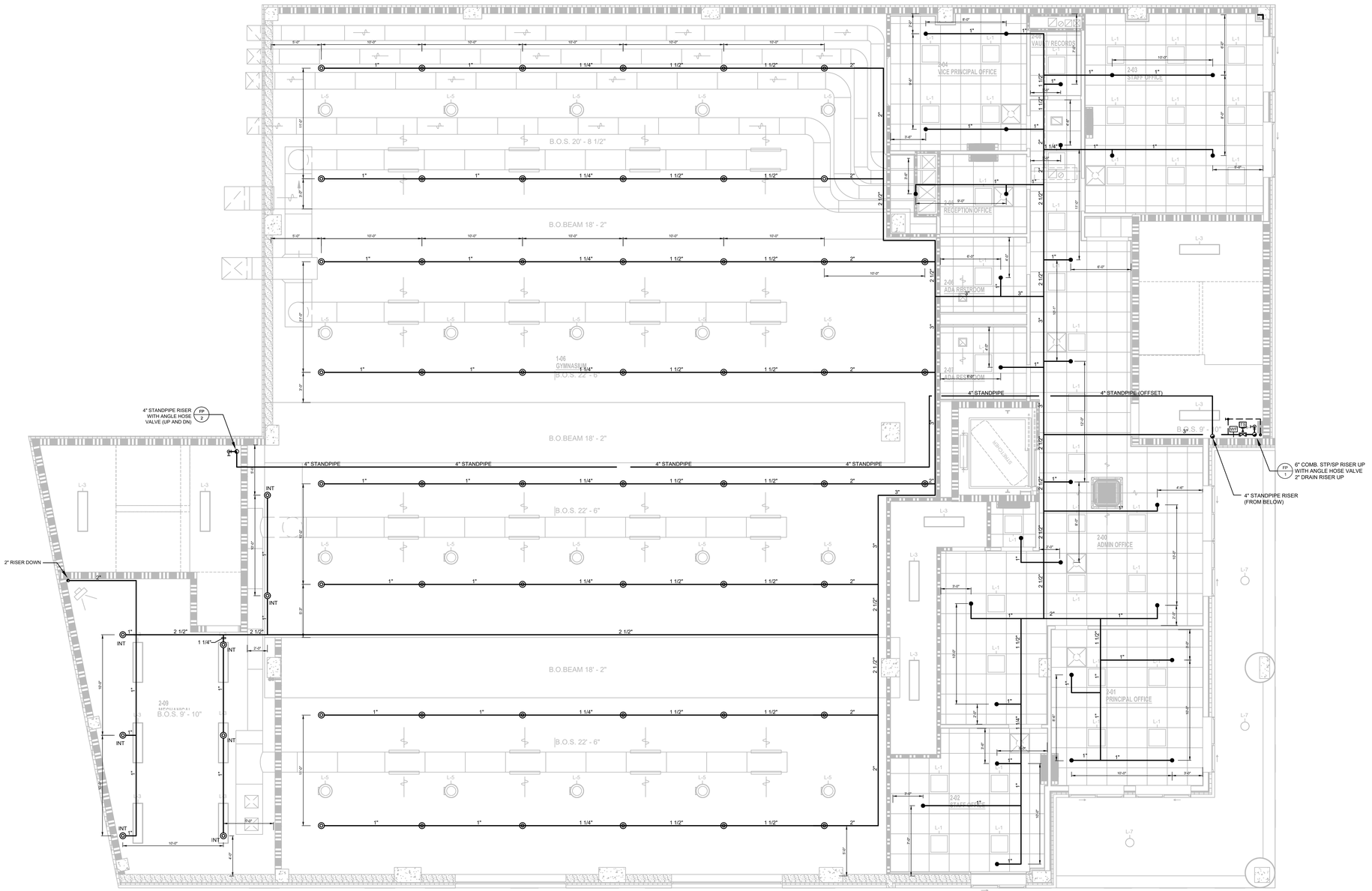
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MINIMUM DESIGN DENSITY:	0.10 GPM / SQ.FT.

SPRINKLER HEAD SCHEDULE

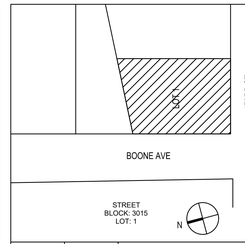
SYMBOL	COUNT	K-FACTOR	DESCRIPTION	NOTE
●	30	5.6	RELIABLE MODEL G5-56 5.6 K-FACTOR 165 DEGREE SPRINKLER HEAD RATING, 165 DEGREE COVER PLATE RATING, 3/4-INCH ADJUSTABLE, (SIN RA3415)	CONCEALED
			15 x 15 SPACING: REQUIRES 13 GPM AT 7 PSI MINIMUM SPACING: 6-FEET - 6-INCHES BETWEEN HEADS MINIMUM DISTANCE FROM WALL: 4-INCHES	
◎	51	5.6	RELIABLE MODEL F1FR56 5.6 K-FACTOR, 155 DEGREE SPRINKLER HEAD RATING, RED BULB, 1/2-INCH ADJUSTABLE, (SIN RA1425)	UPRIGHT
			15 x 15 SPACING: REQUIRES 13 GPM AT 7.0 PSI MINIMUM SPACING: 6-FEET 6-INCHES BETWEEN HEADS MINIMUM DISTANCE FROM WALL: 4-INCHES	
◎ INT	8	5.6	RELIABLE MODEL F1FR56 5.6 K-FACTOR, 200 DEGREE SPRINKLER HEAD RATING, GREEN BULB, (SIN RA1414)	UPRIGHT
			15 x 15 SPACING: REQUIRES 13 GPM AT 7.0 PSI MINIMUM SPACING: 6-FEET 6-INCHES BETWEEN HEADS MINIMUM DISTANCE FROM WALL: 4-INCHES	

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SECOND FLOOR (ADMIN.) PLAN - SPRINKLER

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



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

ARCHITECT
Stephen B. Jacobs Group, P.C.
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DOB XXXXXX

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
SECOND FLOOR (ADMIN.) SPRINKLER PLAN

Seal & Signature:

DATE:	06/06/19
PROJECT #:	19-0514
DWG SCALE:	AS SHOWN
DRAWING NO.:	SP-102.00
SHEET	04 OF 09

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SPRINKLER PLAN NOTES

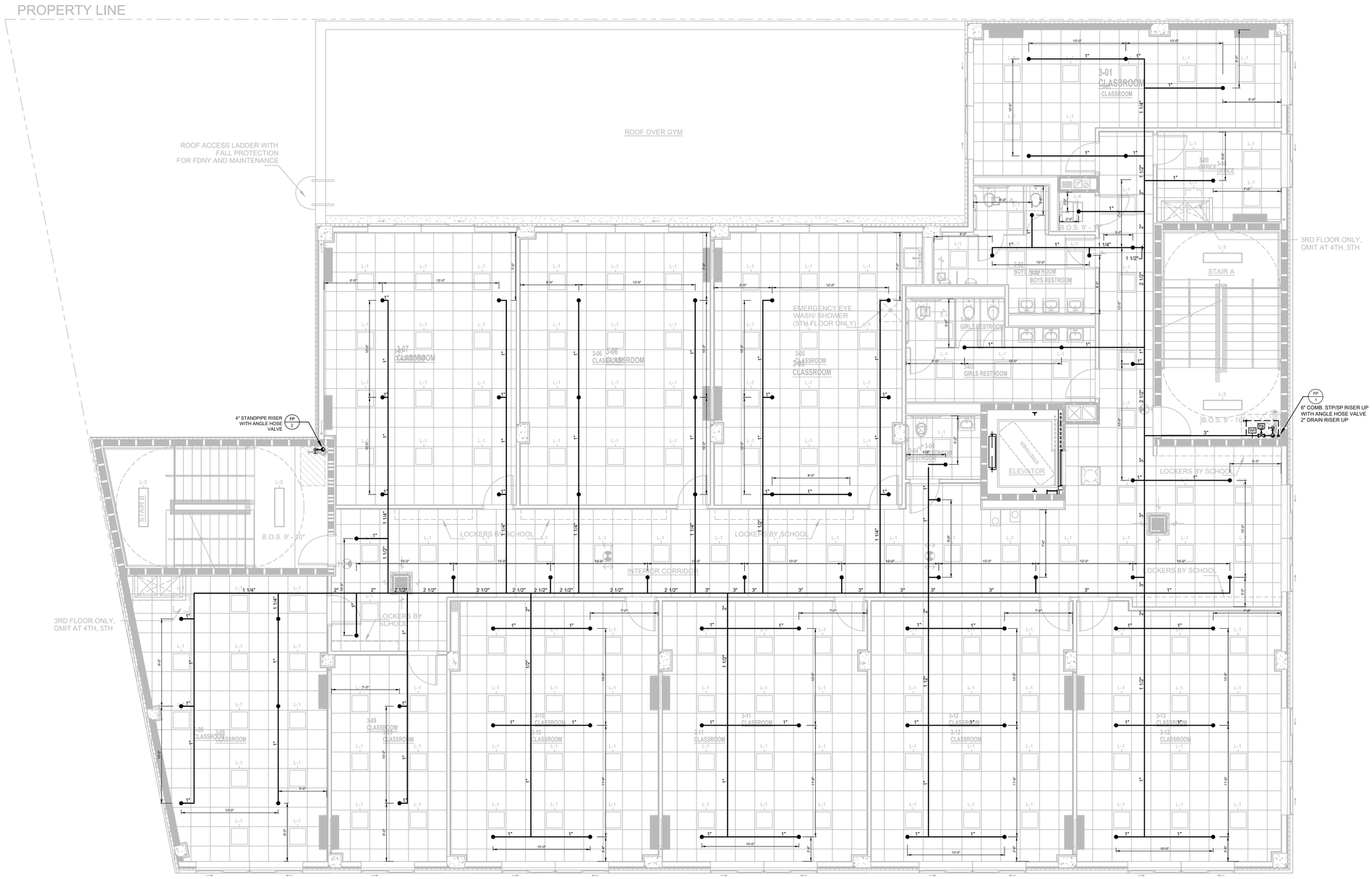
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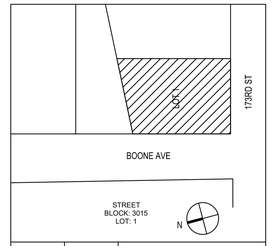
SPRINKLER HEAD SCHEDULE

SYMBOL	COUNT	K-FACTOR	DESCRIPTION	NOTE
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◎	--	5.6	RELIABLE MODEL F1FR56 5.6 K-FACTOR, 155 DEGREE SPRINKLER HEAD RATING, RED BULB, 1/2-INCH ADJUSTABLE. (SIN RA1425)	UPRIGHT
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THIRD THRU FIFTH FLOOR PLAN - SPRINKLER

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



NO.	DATE	DESCRIPTION
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	08/02/19	DOB FILING/ 50% CD

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DOB XXXXXX

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
THIRD THRU FIFTH FLOOR SPRINKLER PLAN

Seal & Signature:

DATE:	06/06/19
PROJECT #:	19-0514
DWG SCALE:	AS SHOWN
DRAWING NO.:	SP-103.00
SHEET	05 OF 09

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SPRINKLER PLAN NOTES

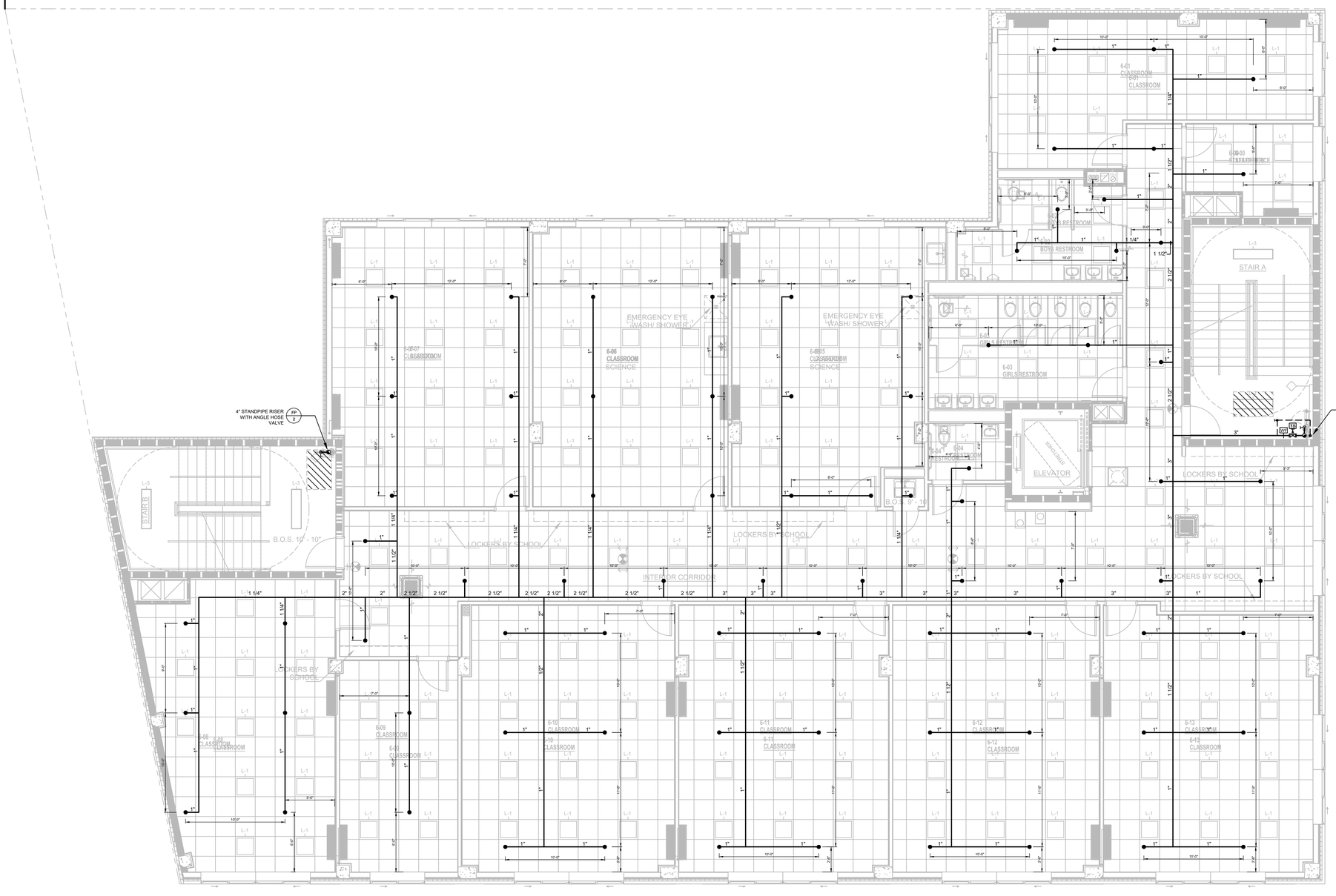
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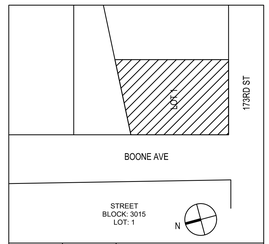
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SIXTH FLOOR PLAN - SPRINKLER

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



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

ARCHITECT
Stephen B. Jacobs Group, P.C.
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DOB XXXXXX

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
SIXTH FLOOR SPRINKLER PLAN

Seal & Signature:

DATE:	06/06/19
PROJECT #:	19-0514
DWG SCALE:	AS SHOWN
DRAWING NO.:	SP-104.00
SHEET	06 OF 09

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SPRINKLER PLAN NOTES

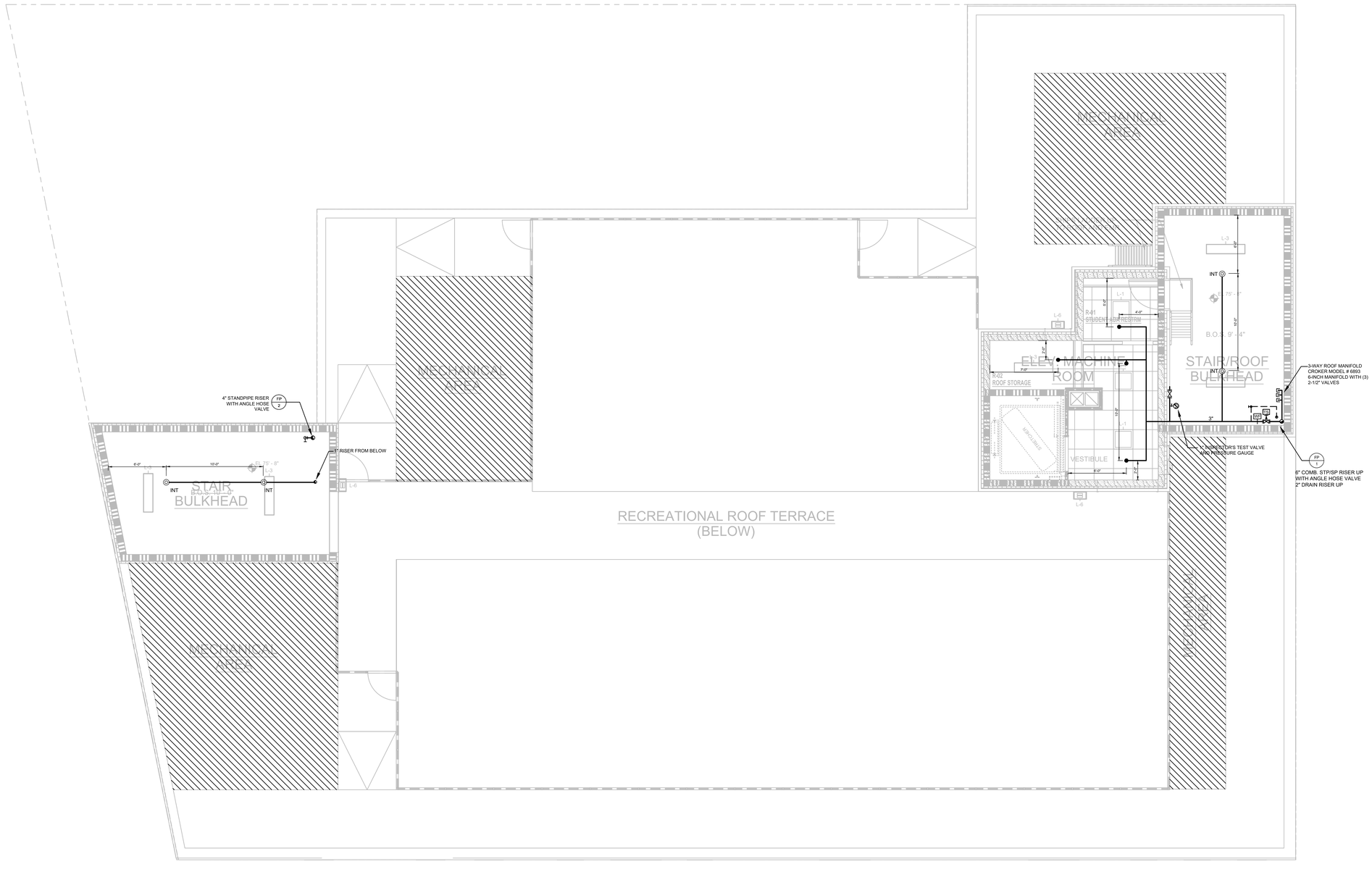
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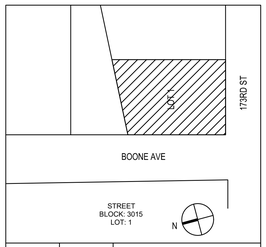
ROOF SPRINKLER HEAD SCHEDULE

SYMBOL	COUNT	K-FACTOR	DESCRIPTION	NOTE
●	4	5.6	RELIABLE MODEL G5-56 5.6 K-FACTOR 165 DEGREE SPRINKLER HEAD RATING, 165 DEGREE COVER PLATE RATING, 3/4-INCH ADJUSTABLE, (SIN RA3415)	CONCEALED
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ROOF PLAN - SPRINKLER

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



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DOB XXXXXX

PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

ROOF SPRINKLER PLAN

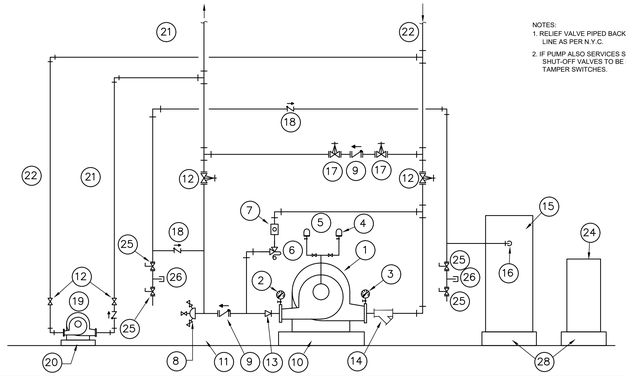
Seal & Signature:

DATE: 06/06/19
PROJECT #: 19-0514
DWG SCALE: AS SHOWN
DRAWING NO.:

SP-105.00

SHEET 07 OF 09

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NOTES:
1. RELIEF VALVE PIPED BACK TO PUMP SUCTION LINE AS PER N.Y.C.
2. IF PUMP ALSO SERVICES SPRINKLERS ALL SHUT-OFF VALVES TO BE EQUIPPED WITH TAMPER SWITCHES.

1 AUTOMATIC FIRE PUMP	9 CHECK VALVE uSE SPRING CHECK IN VERTICAL OR SWING CHECK IN HORIZONTAL POSITION)	14 ECCENTRIC SUCTION REDUCER
2 DISCHARGE GAUGE	10 CONCRETE BASE MIN. 12" HIGH. BASE TO EXTEND MIN. 4" BEYOND BEDPLATE.	15 AUTOMATIC FIRE PUMP CONTROL PANEL
3 SUCTION GAUGE	11 SUPPORT BELOW	16 PRESSURE SWITCH
4 CASING RELIEF VALVE PIPE DISCHARGE TO F.D.	12 OS&Y GATE VALVE (W/VALVED BY-PASS ON VALVES 6" AND LARGER)	17 OS&Y GATE VALVE (BY-PASS)
5 AIR RELEASE VALVE	13 CONCENTRIC DISCHARGE INCREASER (HOSE VALVE HEADER MAY BE INSTALLED IN THIS LOCATION IF DESIRED)	18 BRONZE CHECK VALVE WITH 3/32" ORIFICE IN CLAPPER
6 MAIN RELIEF VALVE		19 JOCKEY PUMP
7 SIGHT CONE & GLASS W/OPENING FOR TEST VALVES		20 CONCRETE BASE MIN. 12" HIGH. BASE TO EXTEND MIN. 4" BEYOND BEDPLATE.
8 TEST VALVES MANIFOLD		

21 DISCHARGE TO SYSTEM	24 JOCKEY PUMP CONTROLLER	27 TEST BY-PASS
22 SUCTION SUPPLY	25 GLOBE VALVE	28 CONCRETE BASE 12" HIGH, IF CONTROLLER LEGS ARE REMOVED
23 COPPER OR BRASS 1/2" PIPE SIZE	26 1/4" PLUG	

FIRE PUMP FOR COMBINATION STANDPIPE/SPRINKLER SERVICE DETAIL

NOT TO SCALE

PACKAGED FIRE PUMP SYSTEMS SPECIFICATIONS

I. AUTOMATIC FIRE PUMP (COMBINATION SYSTEM-STANDPIPE AND SPRINKLERS)

PROVIDE ONE COMPLETE AUTOMATIC FIRE PUMP AS HEREIN DESCRIBED AND INDICATED ON THE PLANS. THE FIRE PUMP SHALL BE UL LISTED, FM APPROVED AND NEW YORK CITY APPROVED. THE VERTICAL IN-LINE FIRE PUMP SHALL BE COMPLETE WITH ALL ACCESSORIES AND CONTROLS AND SHALL MEET THE FOLLOWING CONSTRUCTION REQUIREMENTS. THE FIRE PUMP SHALL BE CONNECTED TO A VERTICAL MOTOR OF AN APPROVED DESIGN.

II. PUMP

ONE ITT/A-C FIRE SERIES 1580, MODEL 6x8x11F VERTICAL IN-LINE CENTRIFUGAL FIRE PUMP (QUIMBY EQUIPMENT CO., INC., EAST FARMINGDALE, NEW YORK) HAVING A CAPACITY OF 750 GPM AT 70 PSI.

THE FIRE PUMP SHALL BE UL LISTED AND SHALL HAVE NYC BSA/MEA APPROVAL NO. 357-92-E, VOL II

THE FIRE PUMP SHALL HAVE BRONZE IMPELLER WITH SMOOTH WATER PASSAGES, BRONZE SHAFT SLEEVE, PACKED STUFFING BOX WITH LANTERN RING AND CAST IRON CASING.

% OF RATED CAPACITY AT A PRESSURE NOT LESS THAN THE PUMP SHALL FURNISH NOT LESS THAN 150 % OF RATED HEAD. 65 % OF TOTAL RATED HEAD. THE SHUTOFF HEAD OF THE FIRE PUMP SHALL NOT EXCEED 120

III. ELECTRIC MOTOR

THE FIRE PUMP SHALL BE DRIVEN BY 50 HP, 3500 RPM, 208 VOLT, 3 PHASE 60 HERTZ STANDARD VERTICAL CLOSE-COUPLED OPEN DRIP-PROOF MOTOR WITH 1.15 SERVICE FACTOR.

IV. FIRE PUMP CONTROLLER

THE FIRE PUMP CONTROLLER SHALL BE A CUTLER HAMMER MODEL FD-50 RATED FOR 50 HP, 208 VOLT- 3 PHASE - 60 CYCLE POWER SUPPLY.

THE FIRE CONTROLLER SHALL BE UNDERWRITERS LABORATORIES (UL) LISTED, FACTORY MUTUAL (FM) APPROVED AND NFPA-20 LISTED.

THE FIRE PUMP CONTROLLER SHALL BE OF THE COMBINED MANUAL AND AUTOMATIC FULL SERVICE TYPE, ACROSS-THE-LINE STARTING MASTER MODEL MCA. THE INTERRUPTING CAPACITY OF THE CIRCUIT BREAKER SHALL BE 100,000 RMS SYMMETRICAL AMPERES AT 208 VOLTS. THE CONTROL PANEL STARTS THE PUMP AUTOMATICALLY AT THE PRESSURE CUT-IN POINT AND SHALL BE STOPPED MANUALLY. RUNNING PERIOD TIMER SET TO KEEP MOTOR IN OPERATION WHEN STARTED AUTOMATICALLY FOR A PERIOD TO TIME OF ONE (1) MINUTE FOR EACH 10 HP NOT EXCEEDING TEN (10) MINUTES. (THIS TIMER MAY BE DELETED FOR AUTOMATIC START WITH MANUAL STOP OPERATION).

PILOT LAMP TO INDICATE CIRCUIT BREAKER CLOSED AND POWER AVAILABLE. POWER AVAILABILITY RELAYS, COMPLETE WITH ALARM CONTACT TO ENERGIZE AN AUDIBLE OR VISIBLE ALARM THROUGH AN INDEPENDENT SOURCE OF POWER, TO INDICATE CIRCUIT BREAKER OPEN OR POWER FAILURE IN ANY PHASE. PROVISION FOR CONVENIENT VOLTAGE AND CURRENT MEASUREMENT. START-STOP PUSH BUTTONS FOR TOTAL MANUAL OPERATION.

V. STANDARD ACCESSORIES

THE FIRE PUMP SHALL BE SUPPLIED WITH THE FOLLOWING ACCESSORIES:

1. ONE (1) COMBINATION 30" HG TO 100 PSI SUCTION GAUGE, 4 ½" DIAL TYPE WITH ¼" COCK AND LEVER HANDLE.
2. ONE (1) 0 TO 300 PSI DISCHARGE GAUGE, 4 ½" DIAL TYPE WITH ¼" COCK LEVER AND HANDLE.
3. ONE (1) ½" CASING RELIEF VALVE.
4. ONE (1) 3" X 3" MAIN RELIEF VALVE (1258 X 1258).
5. ONE (1) 3" X 3" ENCLOSED CONE (1258 X 1258).

VI. JOCKEY PUMP AND CONTROLLER

THE JOCKEY PUMP SHALL BE A GRUNDFOS CR SERIES MODEL CR1-9 CENTRIFUGAL CLOSE-COUPLED VERTICAL TYPE MECHANICAL SEALED, CAST IRON SUCTION AND DISCHARGE CHAMBERS, WITH STAINLESS STEEL IMPELLERS, SHAFT AND WET PARTS, DESIGNED FOR 10 GPM @ 80 PSI, 3500 RPM COMPLETE WITH VERTICAL OPEN-DRIP-PROOF MOTOR RATED FOR 1 HP, 3 PHASE, 60 CYCLE, 208 VOLT OPERATION.

THE JOCKEY PUMP CONTROL PANEL SHALL INCLUDE AN ACROSS-THE-LINE MAGNETIC STARTER, FUSED DISCONNECT SWITCH, HOA SWITCH AND PRESSURE SWITCH.

VII. FIRE PUMP TESTING

1. INSPECTION OF THE COMPLETED INSTALLATION PRIOR TO START-UP INCLUDING PROPER INSTALLATION OF FIRE PUMP, FITTINGS, FIRE PUMP CONTROLLER (INCLUDING WIRING), JOCKEY PUMP AND JOCKEY PUMP CONTROLLER. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE SPRINKLER AND/OR ELECTRICAL CONTRACTORS AND CORRECTED UNDER SUPERVISION OF THE FIRE PUMP MANUFACTURER'S REPRESENTATIVE.

2. START-UP AND ADJUSTMENT: PRIOR TO START-UP, THE FIRE PUMP MANUFACTURER'S REPRESENTATIVE SHALL CHECK THE PUMP AND MAKE ANY ADJUSTMENTS AS RECOMMENDED BY THE PUMP MANUFACTURER. ALL CONTROLLERS WILL BE THOROUGHLY CHECKED FOR LOOSENESS OF WIRES AND/OR CONNECTIONS AND ADJUSTMENTS MADE WHERE NECESSARY. THE FIRE PUMP AND JOCKEY PUMP MOTORS SHALL BE ASS"BUMPED" FOR PROPER ROTATION BY THE MANUFACTURER'S REPRESENTATIVE AND ANY CORRECTIONS THAT ARE NECESSARY WILL BE PERFORMED BY THE ELECTRICAL CONTRACTOR UNDER THE SUPERVISION OF THE PUMP/CONTROLLER MANUFACTURER'S REPRESENTATIVE.

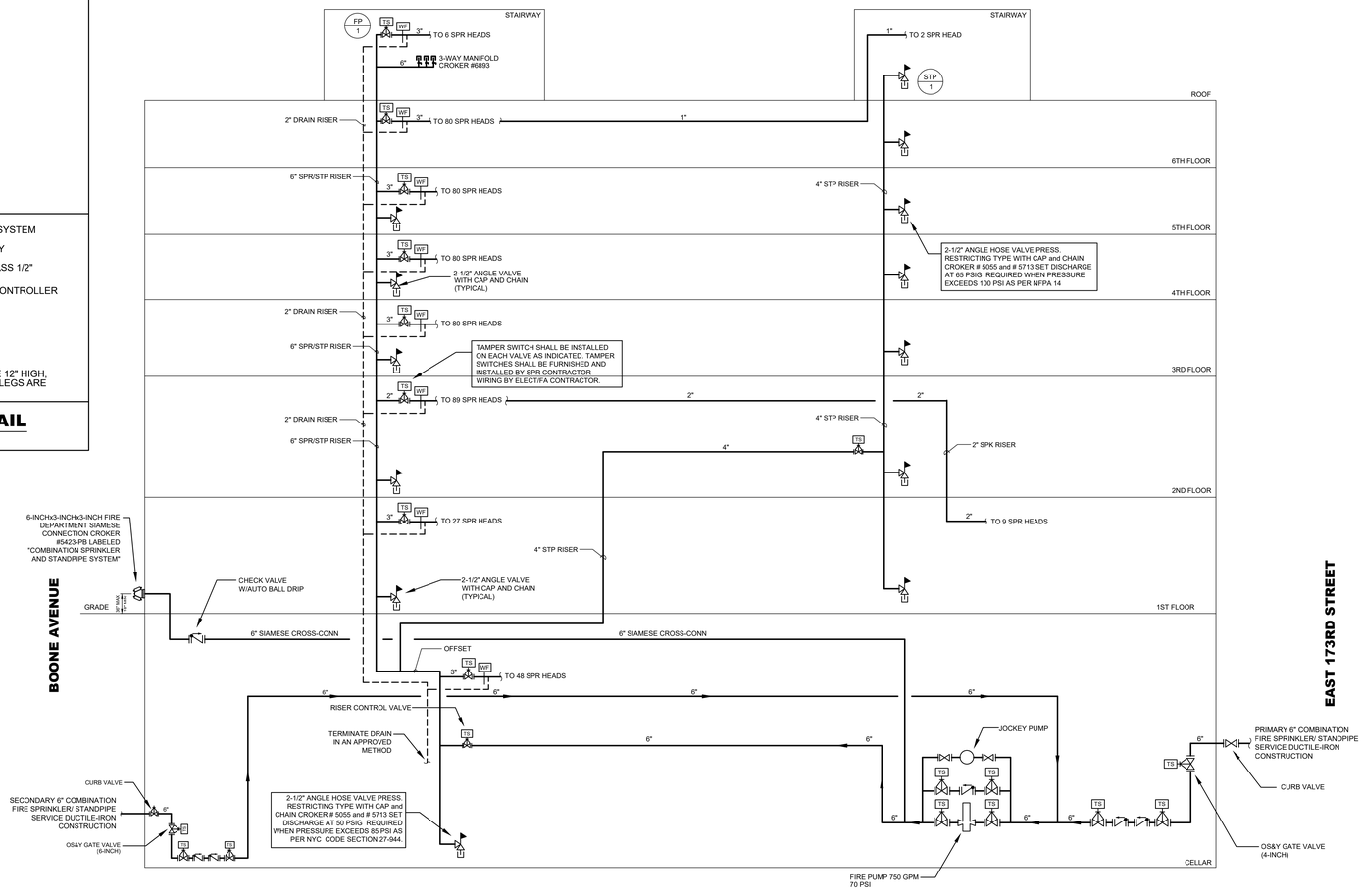
3. FIELD TEST OF FIRE PUMP: THE FIRE PUMP SHALL BE GIVEN A COMPLETE FIELD FLOW TEST BY THE PUMP MANUFACTURER'S REPRESENTATIVE UNDER THE DIRECTION, SUPERVISION AND AS REQUIRED BY THE REPRESENTATIVE OF THE "AUTHORITY HAVING JURISDICTION".

4. VERIFICATION OF PRESSURES, VOLTAGES, AMPERES AND RPM'S SHALL BE RECORDED. FLOW AND PRESSURE RESULTS SHALL BE SUPERIMPOSED ON A FACTORY CERTIFIED PERFORMANCE TEST CURVE PROVIDED BY THE MANUFACTURER'S REPRESENTATIVE AND SIX (6) COPIES SHALL BE FURNISHED TO THE SPRINKLER CONTRACTOR FOR DISTRIBUTION AS REQUIRED.

5. ANY CORRECTIONS, REPAIRS AND/OR MODIFICATION TO THE EQUIPMENT NECESSARY TO MEET THE FIELD PERFORMANCE SHALL BE ACCOMPLISHED AT NO COST TO THE OWNERS OR HIS REPRESENTATIVE.

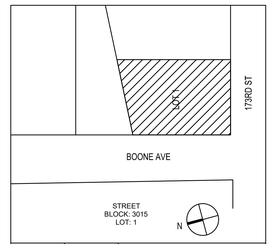
6. THE MANUFACTURER'S REPRESENTATIVE FOR PATTERSON PUMP COMPANY IS:

QUIMBY EQUIPMENT CO., INC.
35 CENTRAL DRIVE
EAST FARMINGDALE, NY 11735
PHONE: (631) 454-8411
FAX: (631) 454-8417



SPRINKLER/STANDPIPE RISER DIAGRAM

SCHEMATIC ONLY — ALL FIRE PROTECTION CONTROL VALVES TO RECEIVE TAMPER SWITCHES



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

ARCHITECT
Stephen B. Jacobs Group, P.C.
Architects and Planners
381 Park Ave South
New York, N.Y. 10016
212 421 3712

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(646)-476-9228

Structural Engineer
RODNEY D. GIBBLE CONSULTING ENGINEERS
18 WEST 21ST STREET, 3RD FLOOR
NEW YORK, NY 10010
(212)-989-2853

M.E.P. Engineer
SIDERIS KEFALAS ENGINEERS, P.C.
217-22 NORTHERN BLVD. SUITE 1
BAYSIDE, NY 11361
(718)-224-9091

DOB XXXXXX

PROJECT NAME

1660 BOONE AVE

Bronx, New York 10460

DRAWING TITLE

SPRINKLER/ STANDPIPE DETAILS

Seal & Signature:

DATE:	06/06/19
PROJECT #:	19-0514
DWG SCALE:	AS SHOWN

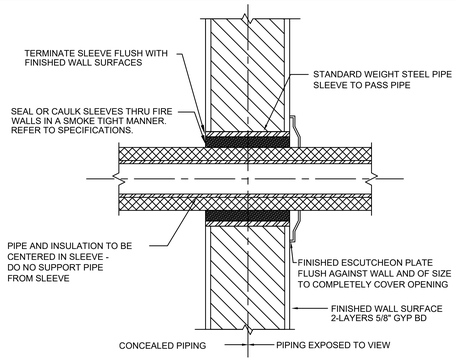
DRAWING NO.:

SP-200.00

SHEET 08 OF 09

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PACKING MATERIAL: MIN 3-1/2 IN THICKNESS OF MIN 0.5 PCF FIBERGLASS INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. THE PACKING MATERIAL SHALL BE SIZED TO BE AT LEAST 1/2 IN LARGER THAN THE OPENING DIAM, CENTERED IN THE WALLS MID-DEPTH AND COMPRESSED SO THAT IT IS RECESSED A MIN OF 1-1/4 IN FROM EACH SURFACE WALL.
FILL, VOID OR CAVITY MATERIAL: DRY MIX MATERIAL MIXED WITH WATER AT A RATE OF 100 GRAMS OF DRY MIX PER 48 TO 50 ML OF WATER OR A 48/100 TO 50/100 RATIO BY WEIGHT OF WATER TO DRY MIX, IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. MATERIAL APPLIED TO EACH SURFACE OF THE PACKING MATERIAL WITHIN THE ANNULUS BETWEEN THE PENETRATING ITEM AND PERIPHERY OF OPENING TO A MIN DEPTH OF 1-1/2 IN. MATERIAL SHALL BE TROWELED FLUSH WITH BOTH SURFACES OF WALL ASSEMBLY.

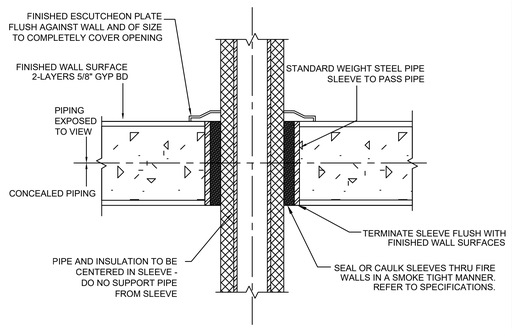


INTERIOR WALLS
UL SYSTEM No. W-L-1041

PIPE SLEEVE THRU WALL DETAIL

NOT TO SCALE UL SYSTEM No. W-L-1041

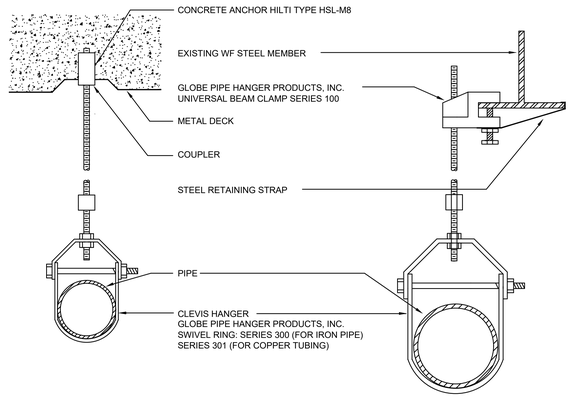
PACKING MATERIAL: MIN 3-1/2 IN THICKNESS OF MIN 0.5 PCF FIBERGLASS INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. THE PACKING MATERIAL SHALL BE SIZED TO BE AT LEAST 1/2 IN LARGER THAN THE OPENING DIAM, CENTERED IN THE WALLS MID-DEPTH AND COMPRESSED SO THAT IT IS RECESSED A MIN OF 1-1/4 IN FROM EACH SURFACE WALL.
FILL, VOID OR CAVITY MATERIAL: DRY MIX MATERIAL MIXED WITH WATER AT A RATE OF 100 GRAMS OF DRY MIX PER 48 TO 50 ML OF WATER OR A 48/100 TO 50/100 RATIO BY WEIGHT OF WATER TO DRY MIX, IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. MATERIAL APPLIED TO EACH SURFACE OF THE PACKING MATERIAL WITHIN THE ANNULUS BETWEEN THE PENETRATING ITEM AND PERIPHERY OF OPENING TO A MIN DEPTH OF 1-1/2 IN. MATERIAL SHALL BE TROWELED FLUSH WITH BOTH SURFACES OF WALL ASSEMBLY.



CEILING PENETRATION
UL SYSTEM No. W-L-1041

PIPE SLEEVE THRU CEILING DETAIL

NOT TO SCALE UL SYSTEM No. W-L-1041

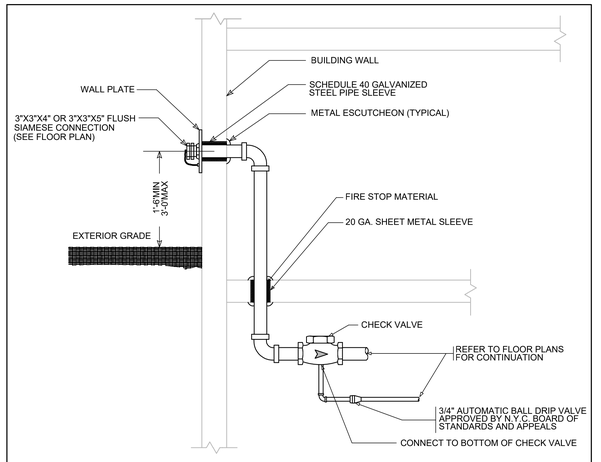


HANGER ROD SPACING AND SIZE SCHEDULE

NOM. PIPE SIZE (INCHES)	STEEL PIPE MAX. SPAN (FEET)	COPPER TUBE MAX. SPAN (FEET)	MINIMUM ROD DIAMETER (INCHES)
UP TO 3/4	7	5	3/8
1	7	6	3/8
1-1/4	7	6	3/8
1-1/2	9	8	3/8
2	10	8	3/8
2-1/2	11	9	1/2
3	12	10	1/2
3-1/2	12	10	1/2
4	12	10	5/8, 1/2 FOR COPPER
5	12	10	5/8, 1/2 FOR COPPER
6	12	10	3/4, 5/8 FOR COPPER
8	12	10	7/8, 3/4 FOR COPPER

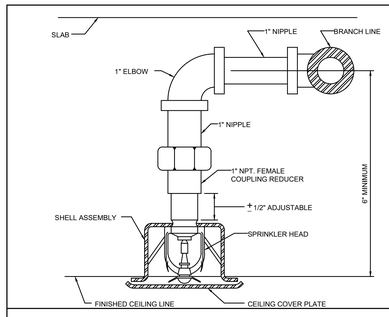
FIRE PROTECTION CLEVIS PIPE HANGING DETAIL

NOT TO SCALE



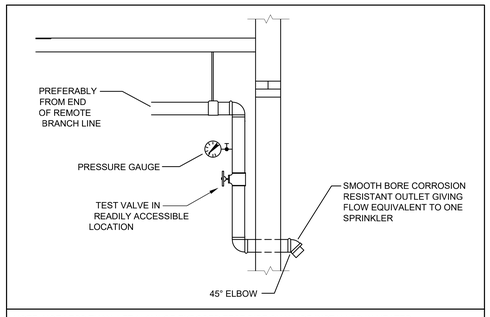
F.D. SIAMESE CONNECTION DETAIL

NOT TO SCALE



CONCEALED SPRINKLER DETAIL

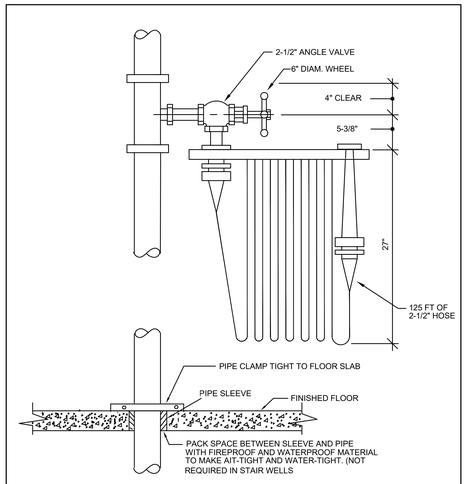
NOT TO SCALE



NOTE: NOT LESS THAN 4 FT (1.2M) OF EXPOSED TEST PIPE SHALL BE INSTALLED IN HEATED ROOM BEYONDTHE TEST VALVE WHEN EXTENDED THROUGH WALL TO THE OUTSIDE.

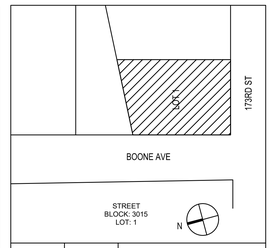
TEST CONNECTION DETAIL

NOT TO SCALE



STANDPIPE HOSE VALVE DETAIL

NOT TO SCALE



NO.	DATE	DESCRIPTION
	09/20/19	90% CD
	08/02/19	DOB FILING/ 50% CD

ARCHITECT
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381 Park Ave South
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(212)-989-2853

M.E.P. Engineer
SIDERIS KEFALAS ENGINEERS, P.C.
217-22 NORTHERN BLVD. SUITE 1
BAYSIDE, NY 11361
(718)-224-9091

DOB XXXXXX

PROJECT NAME
1660 BOONE AVE
Bronx, New York 10460

DRAWING TITLE
SPRINKLER/ STANDPIPE DETAILS

Seal & Signature:

DATE:	06/06/19
PROJECT #:	19-0514
DWG SCALE:	AS SHOWN
DRAWING NO.:	SP-400.00
SHEET	09 OF 09

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Appendix D: NYCDEP Inspection & NYCDOB Planning Records

Environmental Protection

Vincent Sapienza, P.E.
Commissioner

Kevin T. McBride
Deputy Commissioner
Bureau of Police & Security

59-17 Junction Boulevard
9th Floor
Flushing, NY 11373

October 25, 2019

TO: REQUESTER

This is to inform you that a search of records maintained by The Division of Emergency Response and Technical Assessment, (DERTA) yielded a document responsive to your request. Your request under the Freedom of Information Law (FOIL) has been reviewed and the document(s) you requested have been posted on the Open Records portal.

In the event that you disagree with this determination, you may appeal it within 30 days, by writing to:

DEP FOIL Appeals Officer
NYC Department of Environmental Protection
59-17 Junction Blvd., 19th Floor
Flushing, NY 11373

Sincerely,

Patricia Abbott

Patricia Abbott, Executive Assistant
Office of the Deputy Commissioner
Bureau of Police and Security, DERTA
pabbott@dep.nyc.gov

Details

Job 00004729

SRR Number	920310/7/0201
Task	NON-EMER
Start Date	3/10/1992
Subject	IWCS REFERRAL
Location	1660 BOONE AVENUE
Borough	BX
Zip	10472
Project Leader	LM
Community Board	BX06
Facility	ADHESIVE PRODUCTS CORP
Call Origin	IWCS
Caller Name	PRAVIN PATEL
Job Text	SIT: THE IWCS FORWARDED A REFERRAL NOITICE TO THE DHMM REGARDING ì THE ABOVE FACILITY. THE IWCS CLAIMS THAT THE COMPANY WENT OUT OF ì BUSINESS BACK IN 1991, AND LEFT A NUMEBER OF CHEMICALS ON SITE. OBS: THE INSPECTION RESULTED IN A "NO ACCESS". ALL DOORS WERE ì LOCKED, AND NO OCCUPANT SEEMED TO BE ON THE PREMISES. ACT: A LETTER WILL BE SENT TO OWNER TO SET UP AN APPOINTMENT FOR ì INSPECTION.

Save To Desk

View (Chrome Users Only)

Back to List

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Details

Job 00004729

SRR Number	920414/7/0307
Task	NON-EMER
Start Date	4/14/1992
Subject	PLANT CLOSING
Location	1660 BOONE AVE
Borough	BX
Zip	10462
Project Leader	LM
Community Board	BX06
Facility	ADHESIVE PRODUCTS CORP
Call Origin	IWCS
Caller Name	BOB LAGROTTA
Job Text	SIT: THE IWCS ATTEMPTED TO INSPECT THE SUBJECT FACILITY AND ì DISCOVERED THAT IT HAD CEASED ITS OPERATIONS AND HAD GONE OUT OF ì BUSINESS. THE IWCS REFERRED THE SITE TO THE DHMM. OBS: ABOUT 300 DRUMS (55 GALLON) AND ANOTHER 200 CONTAINERS OF ì VARIOUS ADHESIVE PRODUCTS AND OTHER CHEMICALS WERE OBSERVED AT ì THE SITE. SEVERAL OF THE CHEMICALS COULD NOT BE IDENTIFIEC ì FOLLOWING THE DEATH OF THE PRIVIOUS OWNER. THE SON IN-LAW OF THE ì FORMER OWNER HAS INHERITED THE BUSINESS AND IS CLOSING IT DOWN. ì BOTH THE NYS DEC AND THE USEPA HAVE BEEN NOTIFIED BY THE CURRENT ì OWNER OF THE PLAN TO CLOSE DOWN THE FACILITY. MR. KOON TANG OF ì THE NYS DEC HAS PREVIOUSLY INSPECTED THE FACILITY IN CONNECTION ì WITH THE NYS DEC'S CLOSURE REQUIREMENTS. MR. JEFFREY SILBERMAN, ì THE CURRENT OWNER OF THE FACILITY HAD HIRED "ENSI" A NEW JERSEY ì ENVIRONMENTAL FIRM TO TEST, IDENTIFY AND DISPOSE OF ALL CHEMICALS ì ON SITE. ACT: COMISSIONER'S ORDER WILL BE ISSUED TO ADDRESS ì IDENTIFICATION OF ALL UNKNOWN AT SITE AND SUBSEQUENT DISPOSAL OF ì ALL MATERIALS ON SITE.

C

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NYC Environmental Protection

00004729

Right-to-know

LIST OF CHEMICALS

FOIL

Facility Id	Facility Name	Facility Street	Facility City	Facility State	Facility Zip Code	Chemical Name	Max Daily Amount Code
8858	JOSE R LOPEZ DBA JOSE AUTO REPAIR	1661 BOONE Avenue	BRONX	New York	10460	ANTIFREEZE	1
8858	JOSE R LOPEZ DBA JOSE AUTO REPAIR	1661 BOONE Avenue	BRONX	New York	10460	MOTOR OIL	1
8858	JOSE R LOPEZ DBA JOSE AUTO REPAIR	1661 BOONE Avenue	BRONX	New York	10460	WASTE OIL	2
8858	JOSE R LOPEZ DBA JOSE AUTO REPAIR	1661 BOONE Avenue	BRONX	New York	10460	OXYGEN	1
8858	JOSE R LOPEZ DBA JOSE AUTO REPAIR	1661 BOONE Avenue	BRONX	New York	10460	ACETYLENE	1

Robert Dwyer

From: donotreply@records.nyc.gov
Sent: Monday, November 25, 2019 4:14 PM
To: Robert Dwyer
Subject: [OpenRecords] Response Added to FOIL-2019-810-03354 - Offline Access Instructions

The Department of Buildings (DOB) has responded to your FOIL request FOIL-2019-810-03354 with the following instructions for offline access.

Please review the links, which were sent to you. Especially the Job Overview folder with the Job numbers to obtain the plans. I will keep this request open until December 3, 2019. If I do not hear from you by December 3, 2019, will consider the request fulfilled and I will close it out.

Please visit FOIL-2019-810-03354 to view additional information and take any necessary action.

Request Information:
Request Title: Plans & Drawings - 1660-1684 Boone Avenue, Bronx (Block 3015, Lot 1)

Request Description: Property of Interest: 1660-1684 Boone Avenue, Bronx (Block 3015, Lot 1): plans, drawings and files pertaining to storage tanks and/or chemical tanks at the site. Chemical use/handling/storage/generation at the property; violations/complaints on record for the property of environmental interest. The property is associated with following databases; NY Spills - Spills Information Database: Spill Number/Closed Date (9203749/2001-03-21) NY CBS UST - NY Chemical Bulk Storage Underground Storage Tank: (ID 2-000246, Tank Status 2) NY CBS - Chemical Bulk Storage: unregulated tanks closed (2-000246).

2- 1" VENT LINE TERMINATING IN A DOUBLE GOOSENECK 10' ABOVE ROOF & 10' ABOVE IR FROM ANY OPEN EXPOSURE & SECURELY FASTENED.

1" N. Y. C. APP'D. TYPE FILL BOX WITH HEAVY METAL COVER & SHUT-OFF VALVE & FIRE SCREEN AT CURB.

8" REINF CONC SLAB ½"ϕ · 6" O.C. BOTH WAYS

2" FILL

DIRT FILL

2-PROPOSED 550 GALLON N. Y. C. SPEC. V. G. NAPTHA TANKS BURIED 2' BELOW THE LOWEST LEVEL, WITHIN 10' ENCASED IN 12" P. C. STONE CONC. 2:3:5 MIX

2" SUC. ENC. IN 4" CONC

2" SUC. LINE ENC IN 4" CONC.

30"

2½'

10'

SECTION

BOONE AVENUE

BOONE AVE.

115'

88'

EAST 173 FT.

132.7'

89.7'

W

S

N

E

PLOT PLAN

SCALE 1" = 100'

115'

PRESENT TWO STORY BRICK
1ST FLOOR-CRUDE RUBBER STORAGE & BOILER ROOM
CONC. FLOOR & CEILING
2ND FLOOR-STORAGE OF NEW EMPTY CANS
CONCRETE FLOOR

OPEN YARD

18" BRICK WALLS

F.P. SELF CLOSING DOOR

F.P. SELF CLOSING DOOR

PRESENT BOILER ROOM

IRON STAIRS

18" BRICK WALLS

PRESENT TWO STORY FRAME DWELLING OF OWNER OF N.Y. RUBBER CEMENT CO.

F.D. PERMIT NO. 274K1664 4
DOC. M. 1789 EXP. 11-22-41
BLOCK NO. 3015 LOT # 1
NB 94-1901 | ALT 454-1928
82-B 1904 | 17-1903
110-B 1904 | BN 917-1916

6" BRICK FLUE FROM FLOOR TO 6' ABOVE ROOF

PROPOSES TWO ADDITIONAL 550 GAL N.Y.C SPEC. NAPTHA STORAGE TANKS INSTALLED 2' BELOW THE LOWEST LEVEL WITHIN 10' ENCASED IN 12" P.C. CONC. 2:3:5 MIX

PRESENT ONE STORY BRICK MIXING ROOM OF N.Y. RUBBER CEMENT CO. & STORAGE OF STOCK
CONCRETE FLOOR & CEILING
4-APP'D VENT'G. SKYLIGHTS
ONLY KEYLESS ELEC. SOCKETS IN USE

PRESENT 4-APP'D. COVERED MIXING TANKS SET ON 4' HIGH METAL COVERED PLATFORM

F.P. SELF CLOSING DOOR

PRESENT DISCHARGE LINE INTO TANKS WITH SEPARATE S.O. VALVES

PROPOSED APP'D TYPE PUMP REPLACING PRESENT APP'D. TYPE PUMP

6" BRICK FLUE FROM FLOOR TO 6' ABOVE ROOF

8" BRICK WALL

PRESENT MOTOR ROOM

35'

F.P. SELF CLOSING DOOR

PRESENT 2-APP'D. 275 GAL TANKS

6" BRICK FLUE FROM FLOOR TO 6' ABOVE ROOF

SIX SUCTION FLUES CONNECTED TO EXHAUST BLOWER — THREE WITHIN 6" OF FLOOR OF PLATFORM & THREE WITHIN 6" OF FLOOR. VENT FROM EXHAUST BLOWER 6' ABOVE ROOF

6" BRICK FLUE FROM FLOOR TO 6' ABOVE ROOF

NOTE: PROCESS CONSISTS OF PUMPING SOLVENT INTO MIXERS & DUMPING IN CRUDE RUBBER AND MIXING FOR ABOUT 8 HOURS.

NOTE: ALL VENTILATING FLUES TO COMPLY WITH CHAP 19 - ADMIN. CODE.

EAST 173RD ST

88'

89.7'

10'

10'

2" SUC. ENC. IN 4" CONC

2-1" VENTS

2" FILL

1" N. Y. C. APP'D. TYPE FILL BOX WITH HEAVY METAL COVER & SHUT-OFF VALVE & FIRE SCREEN AT CURB.

PROPOSED APP'D TYPE GASOLINE PUMP FOR OWNERS USE ONLY NONE TO BE SOLD CONNECTED TO EXISTING 2-275 GAL. TANKS

PRESENT ONE STORY METAL GARAGE

132.7'

SCALE 1/8" = 1'

N.Y. RUBBER CEMENT CO — 1664 BOONE AV. BX — F.C. WITTEN 7-41

GENERAL NOTES:
8 APP'VD TYPE 550 GALS. TANKS, SUBJECT TO PRESSURE TEST, BURIED 2'-0" BELOW GRADE WITH-IN 10'-0" OF ANY BL'DG'S. TANKS TO BE ENCASED IN 12" P.C. CONC 2131 5 MIX. TANKS TO BE COATED WITH RUST RESISTING MATERIAL BEFORE BURIED. PIPING TO BE GALVANIZED WROUGHT IRON WITH MALLEABLE FITTINGS. NO REPAIR SHOP, NO FORGE, TORCH, OPEN FLAME OR SPARK PRODUCING DEVICE.

NO SCHOOL EXIT OR HOSPITAL ON SAME STREET OR INTERSECTING STREETS, OR WITH-IN 200'-0" ALONG LINE OF STREET TRAVEL. NO HOSPITAL WITH-IN 200'-0" OF PREMISES. NO PLACE OF PUBLIC ASSEMBLY WITH-IN 50'-0" OF PREMISES.

ALL PIPING AND APPURTENANCES TO CONFORM TO THE ADMINISTRATIVE CODE AND FIRE DEPT. REG.

LOCATION OF NEW TANKS

VACANT LOT.

132.71'

115.15'

88' EAST 173RD ST.

BOONE AVE

BLOCK-3015 LOT-1

N

TO EXISTING PUMPS.

NEW SUCTION LINES ENCASED IN 4" P.C. CONC.

EXISTING APPRO PUMPS

EXISTING PUMP

8-1" VENT LINES 10'-0" ABOVE ROOF

PRES. MIXING ROOM.
FP 54-44
FP 44-41

PRES. MIXING CHURNS 300 GALS. EACH

EXISTING PUMPS

PRES. BOILER ROOM.

10'-0"

8-NEW 550 GAL. TANKS SEE NOTES.

NON INFLAMABLE LAYTEX TANKS UNDERGROUND

4-2" FILL LINES.

NEW APP'VD. HEAVY METAL FILL BOXES 2" LINES WITH COCK OR VALVE. EACH BOX DIFFERENT COLOR

℄ CURB LINE

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

NAPTHA | GAS. | NAPTHA | GAS.
NAPTHA | TOL VOL | NAPTHA | TOL VOL
NAPTHA | BENZOL | NAPTHA | BENZOL

TO EXISTING 550 GAL. TANKS APP'VD. UNDER F.D. 31-43 & F.D. 84-43

ALT. OF THIS BLDG ALT 34-44.

EAST 173RD ST.

BOONE AVE.

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

TO EXISTING PUMPS.

SUCTION LINES ENCASED IN 4" P.C. CONC.

2'-0"

12"

8" CONC. SLAB OVER TANKS WITH 1/2" DIAM. STEEL RODS 6" O.C.

8-1" VENT LINES DOUBLE GOOSENECK & SCREENED F.S. 10'-0" AWAY FROM EXPOSURE

NEW TANK INSTALLATION AT: 1660 BOONE AVE BRONX N.Y.C.

JULIUS BLEICH
REGISTERED ARCHITECT
JULIUS BLEICH
NO. 2495
STATE OF NEW YORK

JULIUS BLEICH
ARCHITECT
608 E. TREMONT AVE.
BRONX, NEW YORK

484163

Form No. C. I

9A-2081-28 D

CERTIFICATE ISSUED

Cert. No. 3-1929

Location 1664 Boone av. n.e.cor. 173d st.

Owner E. Klug

1 sty. brick factory

Plan No. alt. 454-28

Date 1-5-29

sary; all plans must be drawn to a uniform scale not less than one-quarter inch to the foot, and be on tracing cloth or be cloth prints, and proposed new work must be clearly distinguished from old by conventional methods; building line or lines must be clearly and distinctly indicated on the drawings; give lot and block numbers of premises, also diagram of same.

AUG 1 1928

THE CITY OF NEW YORK, BOROUGH OF THE BRONX, July 31st 1928

LOCATION AND DESCRIPTION OF PRESENT BUILDING

1. State how many buildings to be altered one

2. What is the exact location? Northeast side of corner of Boone avenue. ~~street.~~ ft. in. and East 173rd Street avenue. ~~street.~~ House No. 1664 Boone Avenue

Block No. 3015 Lot No. 1 Section No. 11

3. How was the building occupied? as a rubber-cement factory

How is the building to be occupied? same

4. Is the building on front or rear of lot? front If there are other building erected on lot or permit granted for one? yes Size 20'-0" x 45'-0"; height 30'-0" How occupied? private dwelling Give distance between same and proposed building 30'-0 feet.

5. Size of lot? 115.15 feet front; 132.71 feet rear; 88 feet deep.

6. Size of building which it is proposed to alter or repair? 20 feet front; 20 feet rear; 40 feet deep. Number of stories in height? one Height from curb level to highest point? 13 feet

7. Depth of foundation walls below curb level? 10 feet Material of foundation walls? stone Thickness of foundation walls? front 18 inches; rear 18 inches; side 18 inches; party ——— inches.

8. Material of upper walls? brick If ashlar, give kind and thickness

...ing Line or Drawings".

...the Borough of ...omitted, for the ...olied with in the

...ber of feet

...number of families in

...feet deep.

...feet deep; ...

...give size and thickness, ...concrete, give thickness ...

...inches; rear, ...

...bond stones or

ORIGINAL

388 9A-2028-25 Bt Form 60

THE CITY OF NEW YORK

OFFICE OF THE

President of the Borough of The Bronx

Municipal Building, Third Avenue and Tremont Avenue

Bureau of Buildings

HENRY BRUCKNER
President of the Borough of The Bronx

P. J. REVILLE
Superintendent of Buildings for the Borough of The Bronx

Plan No. ALT. 454 ~~N. B.~~ Alt. } 1928. Filed ..... 192 .

Date August 31st 1928

APPLICATION is hereby made to the Superintendent of Buildings for the approval of the plans and specifications herewith submitted, and I agree to be governed by the **Rules and Regulations for Plumbing and Drainage, Water Supply, Gas Piping and Ventilation of Buildings**, adopted for The City of New York, and to comply with every provision of law whether herein specified or not.

(Sign here) George W. Kibitz

Location N. E. cor. Boone Avenue and E. 173rd St.

Borough of The Bronx

Owner Ernest Klug Address 1660 Boone Ave

Architect George W. Kibitz Address 410 E. Tremont Ave

Plumber Rudolph Wiesjahn Address 1403 Webster Ave

Size of each lot 115.15 Feet front 132.71 Feet rear 88 Feet deep

Size of each building 20 Feet front 39 Feet rear 75 Feet deep

Front or rear of lot front How to be occupied factory

Number of buildings one Number families each building (if dwelling) none

New or old building partly new & old If old, how occupied now factory

Describe any other building on lot private dwelling

STATE AND CITY OF NEW YORK } ss:
COUNTY OF BRONX }

R. Wiesjahn being duly sworn, deposes and says that he is a Licensed Plumber, duly registered in the Bureau of Buildings of the Borough of The Bronx and is engaged in business at 1403 Webster Ave Borough of Bronx

Deponent further states that he has been authorized by the owner to perform the plumbing work required in the within described premises, and that he will not commence work thereon until plans and specifications have been approved by the Superintendent of Buildings, and that he carries compensation insurance as provided by Section 57, Chapter 615, of the Laws of 1922, of the Amendatory Workmen's Compensation Law.

Sworn to before me, this ... day of ... 192...

SEP 1 1928

R. Wiesjahn

William J. McLaughlin

Commissioner of Deeds, N. Y. City, or Notary Public No. ..... County

RECEIVED
9A-2037-28 D

Form 90

New York Jan 2 1929

To the Superintendent of Buildings for the Borough of The Bronx

JAN -2 1929

Sir:—

The undersigned respectfully requests a CERTIFICATE OF OCCUPANCY for the factory located at North-East corner 173 and Boo... A... in the Borough of The Bronx, City of New York.

N. B. ..... 192.....

Alt. 454 1928

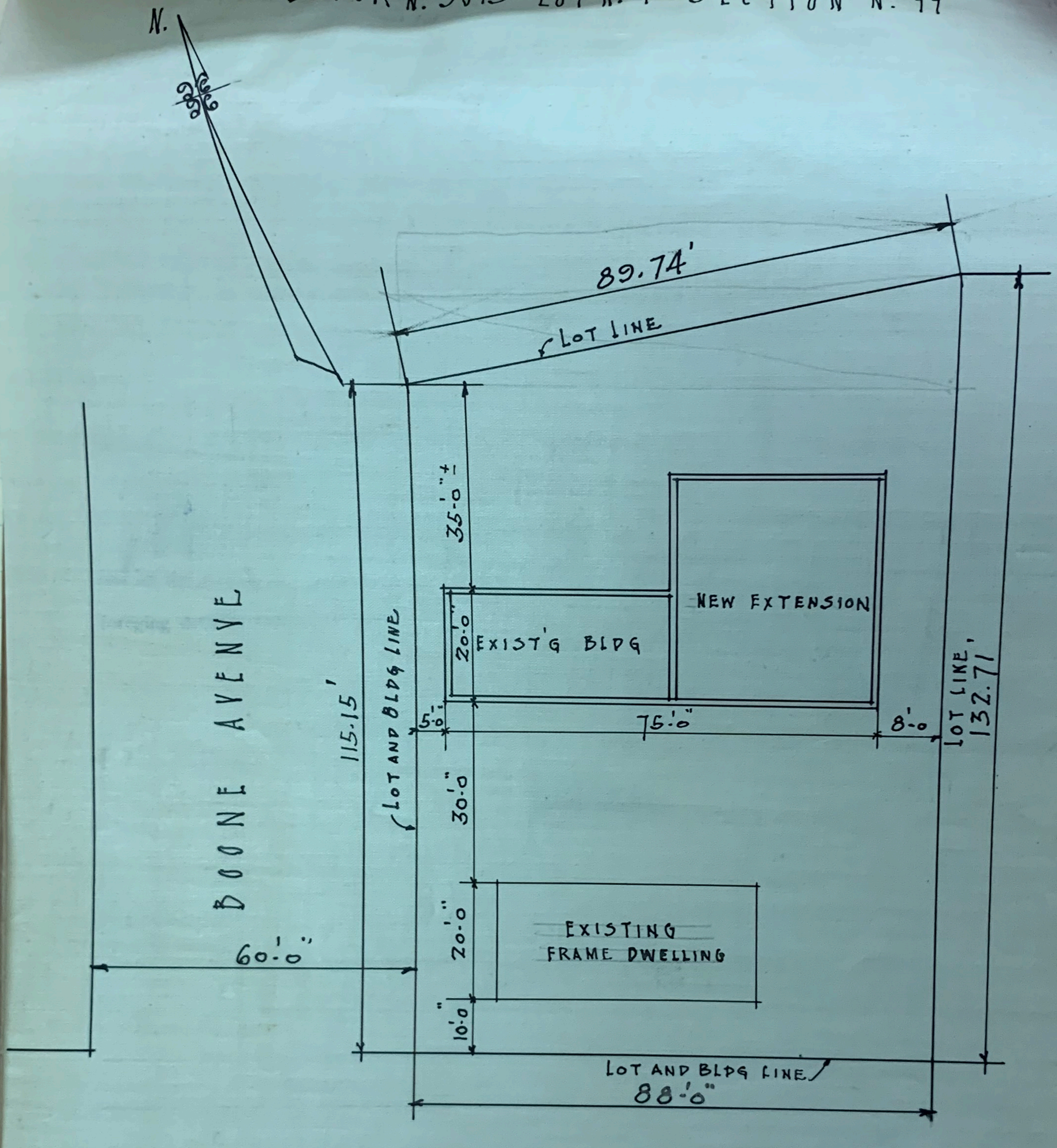
Owner Ernest Klug

Address 1664 Boone Ave

Architect

Address

DIAGRAM OF PROPERTY
BLOCK N°: 3015 LOT N°: 1 SECTION N°: 11



EAST 173RD STREET

GEORGE W. KIBITZ
ARCHITECT
410 EAST TREMONT AVE.
NEW YORK CITY

Appendix E: Previous Environmental Reports
E1 – Equity Environmental Engineering Phase I Environmental Site Assessment, Dated December 18, 2018

E2 – Impact Remedial Investigation Report, Dated August 28, 2019

E3 – Impact Waste Characterization Report, Dated July 30, 2019

E4 – AmeriGEO Preliminary Geotechnical Investigation Report, Dated April 2, 2019

Appendix F: Document Repository Correspondence

Robert Dwyer

From: Virginia Quinones <virginiaquinones@nypl.org>
Sent: Thursday, December 5, 2019 3:25 PM
To: Robert Dwyer
Subject: Re: West Farms Library - Document Repository for Public Access to Environmental Reports

Follow Up Flag: Follow up
Flag Status: Flagged

Good afternoon Robert,

Sorry for the delay. I am just returning back to the office today.

Yes, this sounds perfect. Please arrange for delivery.

Thank you!

On Wed, Dec 4, 2019 at 1:50 PM Robert Dwyer <rdwyer@impactenvironmental.com> wrote:

> Hi Virginia,
>
> I'm writing to you about utilizing the West Farms Library as a document repository for environmental reports associated with our site at 1660 Boone Avenue in the Bronx, NY.
>
> We are planning to enter the site into the New York State Brownfield Cleanup Program, as a part of this application hard copies of the reports need to be made available for public review at the nearest library.
>
> Please confirm if this is acceptable and I will organize delivery of said reports to the library.
>
> Thanks
>
> Rob
>
> **ROBERT DWYER** | Environmental Engineer
> O: 201-268-5686 x167
> 1000 Page Avenue, Lyndhurst, NJ 07071
> Our email policies

--
Virginia Quinones
Interim Library Manager

West Farms Branch
The New York Public Library
2085 Honeywell Ave, Bronx, NY 10460
718.367.5376
nypl.org

From:	Colbert Nembhard
To:	Robert Dwyer
Cc:	Dudley, John (CB)
Subject:	Re: Bronx Community Board 3 - Document Repository for Public Access to Environmental Reports
Date:	Thursday, December 12, 2019 9:05:32 AM
Attachments:	image124378.png

Hello Robert,

The Morrisania Library no longer accepts the physical documents for review. We went digital a while back. Please send us the link and we will have it posted on our page for review.

Best regards,
Colbert

On Thu, Dec 12, 2019, 8:47 AM Robert Dwyer <rdwyer@impactenvironmental.com> wrote:

> Thanks you very much John, Mr. Nembhard I will be in contact shortly.
>
> Regards
>
> Rob
>
> **ROBERT DWYER** | Environmental Engineer
>
> **From:** Dudley, John (CB) <jdudley@cb.nyc.gov>
> **Sent:** Wednesday, December 11, 2019 4:28 PM
> **To:** Robert Dwyer <rdwyer@impactenvironmental.com>
> **Cc:** colbertnembhard@nypl.org; Dudley, John (CB) <jdudley@cb.nyc.gov>
> **Subject:** Re: Bronx Community Board 3 - Document Repository for Public Access to Environmental Reports
>
> Hello Mr. Dwyer,
>
> Apologies for the delay in response, but I would prefer that you contact Mr. Colbert Nembhard, branch librarian for the Morrisania Public Library, which services Bronx Community District Three, as a repository for public review of documents associated with your application for remediation of 1660 Boone Avenue, under the NYS Brownfield Clean Up Program. Mr. Nembhard may be reached at 718-861-0372 or 718-589-9268, for this purpose. Mr. Nembhard's email address is colbertnembhard@nypl.org. I have copied Mr. Nembhard on this email.

Thank you.

John Dudley

District Manager

Bronx Community Board Three

From: Robert Dwyer <rdwyer@impactenvironmental.com>
Sent: Thursday, December 5, 2019 4:56 PM
To: Dudley, John (CB) <jdudley@cb.nyc.gov>; Ritter, Etta (CB) <eritter@cb.nyc.gov>
Subject: Bronx Community Board 3 - Document Repository for Public Access to Environmental Reports

Hi,

I'm writing to you about utilizing the Bronx Community Board 3 office as a document repository for environmental reports associated with our site at 1660 Boone Avenue in the Bronx, NY.

We are planning to enter the site into the New York State Brownfield Cleanup Program, as a part of this application hard copies of the reports need to be made available for public review at community spaces.

Please confirm if this is acceptable and I will organize delivery of said reports to your office.

Thanks

Rob

ROBERT DWYER | Environmental Engineer
O: 201-268-5686 x167
1000 Page Avenue, Lyndhurst, NJ 07071
Our email policies

Appendix G: Access Agreement

ACCESS AGREEMENT

ACCESS AGREEMENT made as of this 4th day of December, 2019, by and between Russa Realty Corporation (**"Grantor")**, and JJS Boone, LLC (**"Grantee")**.

WHEREAS, Grantor owns the real property located at 1660-1670 Boone Avenue, Bronx, New York (Block 3015, Lot 1), together with the building and improvements thereon (**"Grantor's Property**"); and

WHEREAS, Grantee is the contract vendee to purchase Grantor's Property, pursuant to a Purchase and Sale Agreement executed November 19, 2018 (the "PSA"); and

WHEREAS, Grantee has applied to have the Grantor's Property accepted into the New York State Brownfield Cleanup Program ("BCP"); and

WHEREAS, following admission of the Grantor's Property to the BCP, Grantee may require access to Grantors' Property to carry out investigatory, remedial and other related tasks required by the BCP (collectively, the "Work"); and

WHEREAS, Grantor desires to grant Grantee such access, to the extent it is required in addition to the rights afforded under the PSA.

NOW, THEREFORE, in consideration of the foregoing and for good and valuable consideration, the receipt of which is hereby acknowledged, Grantor and Grantee agree as follows:

1. Grantor hereby grants access and a license upon, into, under or through Grantors' Property during normal business hours for the purpose of the entry thereon by Grantee, its agents, employees, architects, engineers, contractors and consultants (collectively, the "Grantee Related Parties" and each a "Grantee Related Party"), vehicles, equipment and materials required by Grantee to satisfy tasks and obligations required by any Brownfield Cleanup Agreement entered into between Grantee and the New York State Department of Environmental Conservation.

2. Grantee agrees that any contractors of Grantee entering the Property pursuant to this Agreement shall be appropriately licensed and insured for the work to be performed by them at the Property and shall maintain insurance coverage at all times during which access is provided under this Agreement, which must include commercial general liability, contractual liability and personal injury.

IN WITNESS WHEREOF, this Agreement has been executed by Grantor and Grantee and is effective as of the date set forth above.

Grantor:

RUSSA REALTY CORP.

By: _____
Name: BASANTI MITRA
Title: CO-OWNER

Grantee:

JJS BOONE LLC

By: _____
Name: _____
Title: _____

IN WITNESS WHEREOF, this Agreement has been executed by Grantor and Grantee and is effective as of the date set forth above.

Grantor:

RUSSA REALTY CORP.

By:_____
Name: _____
Title: _____

Grantee:

JJS BOONE LLC

By:_____
Name: John Silvio
Title: Member

Appendix H: Title Report

Sutton Land Title Agency
A Sutton Alliance Company

Corporate Office
515 Rockaway Avenue, Valley Stream, NY 11581
tel: 516.837.6100 **fax:** 516.837.6400
www.suttonalliance.com

November 29, 2018

Matthew Danow
Katsky Korins LLP
605 Third Avenue
New York, NY 10158

Re: Our File: **SL-002392**
Premises: 1660-1670 Boone Avenue, Bronx, NY 10460
Seller: **Russa Realty Corp.**
Purchaser: **Barone Management**
Lender(s): **TBD**

Dear Sir or Madam:

Enclosed please find the most recently completed title report relative to the above referenced transaction for your review. Should you have any questions or require the method of disposition for any exception set forth herein, please contact your assigned Coordinator.

Jean Ryan
Tel: 631-498-1902
Fax: 631-424-2495
Email: JRyan@suttonalliance.com

Very truly yours,



Howard Kopel
Sutton Land Title Agency

Enc.
Cc: _____

Notice to Buyer(s)/Borrower(s) and/or their agent(s): Please be advised that Sutton Land Title Agency has implemented a rate calculator for your convenience to enable you to calculate your title insurance premiums. This website can be accessed at www.nyrates.fntg.com

Sutton Land Title Agency
A Sutton Alliance Company

Corporate Office
515 Rockaway Avenue, Valley Stream, NY 11581
tel: 516.837.6100 **fax:** 516.837.6400
www.suttonalliance.com

PRIVACY POLICY NOTICE:

PURPOSE OF THIS NOTICE

Sutton Land Title Agency and Stewart Title Insurance Company share your concerns about privacy. Each Company is committed to respecting the privacy of our policyholders. Therefore, in accordance with Federal and State laws and regulations, we are providing you with this notice of how we might use the information about you that we gather in the process of issuing our policy of title insurance.

Title V of the Gramm-Leach-Bliley Act (GLBA) generally prohibits any financial institution, directly or through its affiliates, from sharing nonpublic personal information about you with a nonaffiliated third party unless the institution provides you with a notice of its privacy policies and practices, such as the type of information that it collects about you and the categories of persons or entities to whom it may be disclosed. In compliance with the GLBA, we are providing you with this document, which notifies you of the privacy policies and practices of Sutton Land Title Agency and Stewart Title Insurance Company.

We may collect nonpublic personal information about you from the following sources:

- Information we receive from you such as on applications or other forms;
- Information about your transactions we secure from our files, or from [our affiliates or] others;
- Information we receive from a consumer reporting agency.
- Information that we receive from others involved in your transaction, such as the real estate agent or lender.

Unless it is specifically stated otherwise in an amended Privacy Policy Notice, no additional nonpublic personal information will be collected about you.

We may disclose any of the above information that we collect about our customers or former customers to our affiliates or to nonaffiliated third parties as permitted by law.

WE DO NOT DISCLOSE ANY NONPUBLIC PERSONAL INFORMATION ABOUT YOU WITH AFFILIATES OR NON-AFFILIATED THIRD PARTIES FOR ANY PURPOSE THAT IS NOT SPECIFICALLY PERMITTED BY LAW.

We restrict access to non-public personal information about you to those employees who need to know that information in order to provide products or services to you. We maintain physical, electronic, and procedural safeguards that comply with federal regulations to guard your nonpublic personal information.

Sutton Land Title Agency
A Sutton Alliance Company

Corporate Office
515 Rockaway Avenue, Valley Stream, NY 11581
tel: 516.837.6100 **fax:** 516.837.6400
www.suttonalliance.com

NOTICE OF AVAILABILITY OF OWNER'S TITLE INSURANCE

Date: November 29, 2018

To: Barone Management

Title No: SL-002392

Buying property(s) identified as: 1660-1670 Boone Avenue, Bronx, NY 10460, Bronx County

A Mortgagee's Policy of title insurance insuring the title to the property you are buying is being issued to your mortgage lender, but that policy does not provide title insurance coverage to you.

You may obtain an Owner's Policy of Title Insurance which provides title insurance to you. You will receive a discounted simultaneous issue rate by ordering the policy at this time. If you require a rate quotation, please call or email our office and we will be happy to provide you with a quote request.

If you are uncertain as to whether you should obtain an Owner's policy of title insurance, you are urged to seek independent legal advice.

☐ I/We do request an Owner's Policy of title insurance.

☐ I/We do not request an Owner's Policy of title insurance.

_____
Date

Barone Management

BY:_____

Sutton Land Title Agency
A Sutton Alliance Company

Corporate Office
515 Rockaway Avenue, Valley Stream, NY 11581
tel: 516.837.6100 **fax:** 516.837.6400
www.suttonalliance.com

OPTIONAL MARKET VALUE POLICY RIDER AVAILABILITY

Title No: SL-002392

NOTE: THE FOLLOWING IS ONLY APPLICABLE TO THE PURCHASE OF A ONE TO FOUR FAMILY DWELLING, A RESIDENTIAL CONDOMINIUM OR COOPERATIVE UNIT. THE PURCHASER MUST BE A NATURAL PERSON AND MUST RESIDE AT THE PROPERTY WHICH MUST BE USED PREDOMINANTLY FOR RESIDENTIAL PURPOSES.

Section 6049, Subdivision "C" of the Insurance Law requires that title companies' offer at or prior to closing an optional policy rider to cover the homeowner for the future market value of his or her home. The Purchaser may, for an additional premium, obtain a title policy in excess of the Purchase Price.

A. I choose to accept the Market Value Policy Rider.

Barone Management

BY:_____

B. I do not wish to accept the Market Value Policy Rider for future increased market value and elect to waive the offer for such additional coverage.

Barone Management

BY:_____

C. TO BE COMPLETED BY THE COMPANY CLOSER:

The Optional Market Value Policy Rider is not applicable to this transaction.

REASON:

- ☐ Commercial Property ☐ Vacant Land
- ☐ Multiple Dwelling (consisting of 5 families or more)
- ☐ Purchaser is not a natural person (e.g. corporation, partnership, trust, etc.)
- ☐ Purchaser will not reside at dwelling

BY: _____
Company Closer

CERTIFICATE FOR TITLE INSURANCE

Stewart Title Insurance Company

Agrees to issue its standard form of insurance policy after the closing of the transaction in conformance with procedures approved by the Company excepting (a) all loss or damage by reason of the estates, interests, defects, objections, liens, encumbrances and other matters set forth herein that are not disposed of to the satisfaction of the Company prior to such closing or issuance of the policy, and (b) any question or objection coming to the attention of the Company before the date of closing, or if there be no closing, before the issuance of said policy.

This Certificate shall be null and void (1) if the premium and related charges for the policy are not paid; (2) if the prospective insured, his attorney or agent makes any untrue statement with respect to any material fact or suppresses or fails to disclose any material fact or if any untrue answers are given to material inquiries by or on behalf of the Company; or (3) upon delivery of the policy. Any claim arising by reason of the issuance hereof shall be restricted to the terms and conditions of the standard form of title insurance policy. If the title, interest or lien to be insured was acquired by the prospective insured prior to delivery hereof, the Company assumes no liability except under its policy when issued.

THIS CERTIFICATE IS INTENDED FOR LAWYERS ONLY. SUCH EXCEPTIONS AS MAY BE SET FORTH HEREIN MAY AFFECT MARKETABILITY OF TITLE. YOUR LAWYER SHOULD BE CONSULTED BEFORE TAKING ANY ACTION BASED UPON THE CONTENTS HEREOF. THE COMPANY'S REPRESENTATIVE AT THE CLOSING HEREUNDER MAY NOT ACT AS LEGAL ADVISOR TO ANY OF THE PARTIES OR DRAW LEGAL INSTRUMENTS FOR THEM. SUCH REPRESENTATIVE IS PERMITTED TO BE OF ASSISTANCE ONLY TO AN ATTORNEY. IT IS ADVISABLE TO HAVE YOUR ATTORNEY PRESENT AT THE CLOSING.

IF ANY OF THE CLOSING INSTRUMENTS WILL BE OTHER THAN COMMONLY USED FORMS OR CONTAIN UNUSUAL PROVISIONS, THE CLOSING CAN BE SIMPLIFIED AND EXPEDITED BY FURNISHING THE COMPANY WITH COPIES OF THE PROPOSED DOCUMENTS IN ADVANCE OF CLOSING.

THIS REPORT IS NOT A TITLE INSURANCE POLICY!

PLEASE READ IT CAREFULLY. THE REPORT MAY SET FORTH EXCLUSIONS UNDER THE TITLE INSURANCE POLICY AND MAY NOT LIST ALL LIENS, DEFECTS, AND ENCUMBRANCES AFFECTING TITLE TO THE PROPERTY.

YOU SHOULD CONSIDER THIS INFORMATION CAREFULLY.

Dated: November 26, 2018 **Redated:** Sutton Land Title Agency 515 Rockaway Avenue Valley Stream, NY 11581 TEL: (516) 837-6100 FAX: (516) 837-6400	Stewart Title Insurance Company By:  Howard J. Kopel, Esq. Authorized Signature

SUTTON LAND TITLE AGENCY
as Agent for
STEWART TITLE INSURANCE COMPANY

Title No.: SL-002392

SCHEDULE A – CERTIFICATION

Effective Date: November 9, 2018 Title No.: SL-002392

Recertified Date:

Recertified By:

Policy and/or Policies to be issued:

ALTA Owner's Policy with N.Y. Endorsement Modifications

Proposed Insured:	Barone Management	$4,500,000.00

ALTA Loan Policy with N.Y. Endorsement Modifications

Proposed Insured:	TBD	TBD
Borrower(s):	Barone Management	

The Estate or interest in the land described or referred to in this Certificate and covered herein is:
Fee Simple

THIS COMPANY CERTIFIES that a good and marketable title to the premises described in Schedule A, subject to the liens, encumbrances and other matters, if any, set forth in this certificate may be conveyed and/or mortgaged by:

Russa Realty Corp.

TITLE VESTED IN:
Russa Realty Corp. by deed from West Boone Realty Corp., dated November 2, 2001 and recorded April 30, 2002 in the Bronx County Register's Office in Reel 1993 page 258.

Title Recertified in: _____

SCHEDULE A – CERTIFICATION (CONTINUED)

The land referred to in this certificate is described as follows:

SEE SCHEDULE A LEGAL DESCRIPTION ATTACHED

Premises described in Schedule A are Known as:

Address: **1660-1670 Boone Avenue**
Bronx, NY

County: Bronx **Block: 3015 Lot: 1**

For any title clearance questions on this report, please call:

SUTTON LAND TITLE AGENCY
515 Rockaway Avenue
Valley Stream, NY 11581
Phone: (516) 837-6100 Fax: (516) 837-6400

SCHEDULE A – LEGAL DESCRIPTION

The land referred to in this cerfiticate is described as follows:

All that certain plot, piece or parcel of land situate, lying and being in the Borough and County of Bronx, City and State of New York, and filed and designated by Section 11, Block #3015, Lot #1, on the Tax Map of the Borough of the Bronx, bounded and described as follows:

BEGINNING at the corner formed by the intersection of the northerly side of East 173rd Street with the easterly side of Boone Avenue;

THENCE northerly along the easterly side of Boone Avenue, 115.15 feet;

THENCE northeasterly on a line forming an interior angle of 101 degrees, 17 minutes, 06 seconds with the preceding course 89.74 feet to a point;

THENCE southerly on a line forming an interior angle of 78 degrees 42 minutes 54 seconds with the preceding course a distance of 132.71 feet to the northerly side of East 173rd Street;

THENCE westerly along the northerly side of East 173rd Street 88.0 feet to the corner, the point and place of BEGINNING.

Note: Address, Block & Lot shown for informational purposes only.

Designated as Block 3015 Lot 1 and also known as 1660-1670 Boone Avenue, Bronx, NY 10460.

SUTTON LAND TITLE AGENCY
as Agent for
STEWART TITLE INSURANCE COMPANY

SCHEDULE B-I
REQUIREMENTS

Title No.: SL-002392

The following requirements must be met prior to the issuance of a policy.

(a) Pay the agreed amounts for the interest in the land and/or according to the mortgage to be insured.
(b) Pay the Company the premium, fees and charges for and associated with the policy.
(c) Documents satisfactory to us creating the interest in the land and/or the mortgage to be insured must be signed, delivered and recorded.

You must tell us in writing the name of any person or entity not referred to in this Commitment who will get an interest in the land or who will make a loan on the land. We may then make additional requirements or raise additional exceptions.

DISPOSITION

1. Contract of Sale has Barone Management as the Purchaser. Company does not find proof of existence of said entity, however, a search on the NYS Dept. of State Division of Corporations website found Barone Management, LLC formed on 7/19/2006. Company will require proof that both names are one and the same entity and all questions to be considered.

2. Proof of the following as to **Russa Realty Corp.**:
   A) Certificate of Incorporation.
   B) Production of Certificate of Good Standing.
   C) Production of Corporate Resolution authorizing the conveyance or mortgage.
   D) Certificate of Secretary certifying that the Certificate of Incorporation does not require stockholders consent
   E) Proof is required that the person executing the instruments on behalf of said corporation has the power to bind said corporation in this transaction. A Directors Resolution or Shareholders Resolution should be provided.
   F) The name(s) of all shareholders must be furnished in advance of the closing so that judgment, lien and bankruptcy searches can be run. Further exceptions may be raised.

3. If the present transaction consists in whole or in part of a conveyance or lease by a corporate grantor or lessor, there must be compliance with Sections 615 and 909 of the Business Corporation Law. The vote of shareholders holding two - thirds of the outstanding shares of the stock of the corporation entitled to be voted is required at a meeting duly called to approve the sale or lease of all or substantially all of the assets of a corporation not made in the usual course of business; provided, however, that a majority vote of the shares outstanding and entitled to be voted is required for a corporation formed after February 22, 1998 and for a corporation formed prior thereto, the certificates of incorporation of which provides for a majority vote. Approval of such a sale or lease may be obtained without a meeting on the written consent of the holders of all outstanding shares entitled to be voted or, if the certificate of incorporation so permits, on the written consent of the holders of outstanding shares of no less than the minimum number of votes required by the certificate of incorporation to authorize an action at a meeting at which all shares entitled to vote were present and voted. Proofs showing the authority upon which the conveyance or lease is to be made should be submitted to counsel for the Company in advance of closing. The instrument on closing should recite the authority for the conveyance or lease.

SCHEDULE B-I REQUIREMENTS
(CONTINUED)

4. Searches, including judgments, federal tax liens and bankruptcies have been run against **Russa Realty Corp.**, the certified owner(s) herein and the following must be disposed of: **Four (4) Environmental Control Board liens, (all which property address), see attached**.

5. Re: Barone Management, LLC (a NY Limited Liability Company)

(a)Proof is required of its formation and that it has not been dissolved. Proof is also required that there has been no change in the composition of the Limited Liability Company.

(b)A copy of its Articles of Organization, and any amendments thereto, must be delivered to the Company for review in advance of closing.

(c)A copy of its Operating Agreement and any amendments thereto, must be delivered to the Company for review in advance of closing.

(d)Proof is required that the transaction to be insured has been duly authorized.

(e)The name(s) of the managing member(s) must be furnished to this Company in advance of the closing so that federal tax lien and bankruptcy searches can be run. If the limited liability company does not have managing members, please contact Company Counsel to identify the names of the members as to whom said searches are to be run.

NOTE: At least two-thirds in interest of the members at a duly called and noticed meeting are required to vote for or consent in writing to a sale, lease or mortgage, pursuant to Sections 402, 403, 405 and 407 of the Limited Liability Company Law. Counsel must be advised in advance of the closing if less than two-thirds have voted for or consented in writing to the proposed transaction (or that such a vote or consent is anticipated) to determine if there is or will be due authority to convey.

Conveyances by a Limited Liability Company formed on and after August 31, 1999, and a previously formed Limited Liability Company having amended its Operating Agreement to so provide, may proceed on the vote of a majority in interest of its members.

6. Searches for federal tax liens, bankruptcies and judgments have been run against **Barone Management and Barone Management, LLC**, the proposed purchaser(s)/mortgagor(s) and such searches disclose the following: **No returns were found**. (Note-If the mortgage to be insured is not a purchase money mortgage, these items must be disposed of).

SCHEDULE B-I REQUIREMENTS
(CONTINUED)

7. There appears to be outstanding mortgages of record as follows:
Mortgage made by Jacob Gass and Ernest Klug to Richard Wohlberg, in the amount of $20,000.00, dated April 30, 1921 and recorded May 4, 1921 in Liber 539 page 187.
Mortgage made by Ernest Klug and Madeline Klug to Jacob Gass and Herman E. Gass, in the amount of $11,000.00, dated October 12, 1926 and recorded October 26, 1926 in Liber 1112 page 111.
Consolidation and Modification Agreement dated July 20, 1931 and recorded July 24, 1931 in Liber 1558 page 404 which consolidates above 2 mortgages to form a single lien in the amount of $20,000.00
Which consolidated mortgage was assigned by Elizabeth Gass and Jacob Gass and Madeline B. Klug to Lucille J. Medwick, dated November 30, 1943 and recorded December 1, 1943 in Liber 2115 page 306.

   Company finds no satisfaction of mortgage recorded and will require an affidavit from the certified owner that they have received no demand for payment under the terms of the Mortgage and the note which it secures within the last six (6) years and it has not made or caused to be made any payments under the terms of the Mortgage to the holder of the Mortgage or its designee, if any, within the last six (6) years.

8. A copy of the Contract of Sale must be submitted for consideration prior to closing. NOTE: When applicable, a copy of the Contract of Sale must be submitted with the New York City Real Property Transfer Tax Return (RPT) when the consideration is $400,000.00 or more.

9. The property herein is not a 1-4 family dwelling used exclusively for residential purposes and, therefore, does not qualify for survey inspection coverage. If survey coverage is required, a new survey or, alternatively, an old survey updated by a licensed surveyor, must be obtained and read into title. If applicant wishes Company to provide for a new or updated survey, arrangements must be made, including payment, in sufficient time to avoid delaying closing of title.

SCHEDULE B-I REQUIREMENTS
(CONTINUED)

10. Additional Requirements:

a) All parties attending the closing will be required to furnish a photo driver's license or other photo-identification and social security numbers to the Company's representative at closing.

b) This company does not accept personal checks for payment of any of its closing charges or fees. Only certified or bank checks, attorney escrow checks or wired funds will be accepted at closing. Under no circumstances will third party or seller's checks be accepted in any amount.

c) If the conveyance and/or mortgage to be insured herein is to be made under Power of Attorney, Both the Power of Attorney AND a copy of the Principal's driver license or passport must be submitted to the Company for approval PRIOR to closing. Further, proof is required that same has not been revoked and is still in full force and effect and that the Principal is living at the time of execution and delivery of the instruments.

d) Borrower and lender must comply with the mortgage recording requirements of the New York State Department of Taxation and Finance. Every mortgage offered for recording must contain the following recital: "The real property (is or is not, whichever applies) principally improved or to be improved by one or more structures containing in the aggregate not more than six residential dwelling units, each dwelling unit having its own separate cooking facilities.) NOTE: This recital may be stated on the mortgage instrument itself or it may be included by the attachment of a separate page to the mortgage signed by the person making the statement.

e) Applicable Mortgage Recording Tax (or Affidavit of Exemption), if any, is due at closing.

f) Deeds and mortgages must contain the covenant required by Section 13 of the lien law and such covenant must be absolute and not conditional. These covenants are not required in deeds from referees or other duly appointed officials of the court for the sole purpose of selling the property.

g) A mortgagee's title insurance policy does not provide title insurance coverage to the fee owner. If you wish to obtain owners title insurance, you must request it at or before the closing and pay the required premium.

THE FOLLOWING REQUIREMENTS PERTAIN TO NEW YORK CITY PROPERTIES ONLY:

h) Satisfactory Proof by affidavit must be furnished whether any work has been done upon the premises by the City of New York, or any demand made by the City for any work, which may result in charges being imposed by:

(i) the New York City Department of Rent and Housing Maintenance, Emergency Services;
(ii) the New York City Department of Environmental Protection for Water Tap closing or any related work; and
(iii) by the New York City Department of Health; whether or not such charges are liens against which this policy protects.

NOTE: The above is required due to the inability of this Company to search for these liens because of New York City's failure to properly file notices of these charges. These charges are liens pursuant to titles 17, 24 and 26 of the Administrative Code of The City of New York

i) Satisfactory Proof by affidavit must be furnished showing whether any fee for an inspection, re-inspection, examination or service performed by the Department of Buildings or permit issued by the Department of Buildings have been levied, charged, created or incurred, which may become a lien upon the premises, whether or not such charges are liens against which this policy insures.

SUTTON LAND TITLE AGENCY
as Agent for
STEWART TITLE INSURANCE COMPANY

SCHEDULE B-II
EXCEPTIONS

Title No.: **SL-002392**

Hereinafter set forth are additional matters which will appear in our policy as exceptions from coverage. The Company will not pay costs, attorneys' fees or expenses which arise by reason of the following exceptions unless disposed of to the Company's satisfaction prior to the closing or delivery of the policy: Company reserves the right to raise additional exceptions.

DISPOSITION

1. Rights of tenants or persons in possession, if any.

2. Taxes, tax liens, tax sales, water rates, sewer rents and assessments set forth herein

3. Any state of facts which a guaranteed survey of current date would disclose.

4. The exact location, courses, distances and dimensions of the premises described in Schedule A are not insured without a survey thereof acceptable to this Company.

5. There are **TWO** open mortgage(s) of record. (See Mortgage Schedule herein)

   Mortgage **1** is held of record by a non-institutional lender. Documents required of said lender, such as a satisfaction, assignment or instrument of subordination, must be delivered to Counsel for the Company at or prior to closing. The original note and mortgage must also be delivered if the mortgage is to be satisfied or assigned.

6. Covenants, restrictions, easements, leases and agreements of record, etc., more fully set forth herein:
   None of Record.

7. Policy excepts Emergency Repair Liens and charges which may exist but are not filed. There may be work in progress or completed work and such items can not effectively be determined due to the delay in entering such items.

8. The City of New York requires the owners of certain income producing properties to file a Real Property Income and Expense ("RPIE") form with the City's Department of Finance annually. If the property owner does not file the RPIE form or files the form late, then the Department of Finance may assess a penalty of 3 to 5 percent of the property's final assessed valuation. The penalty will appear on the owner's real property tax bill. Because there may be significant time lag between the due date for the RPIE form and the date on which the penalty and interest appear on the tax bill, the policy will except and not cover any and all RPIE charges, fees and penalties which may be assessed by the Department of Finance against the property or its owner after the date of the title policy.

9. If the subject premises consists of 6 units or more and is rent stabilized, this policy excepts any rent stabilization fees not transferred to the NYC Department of Finance as of the date of closing. Any fee which may be assessed or entered subsequently by the City is not insured.

SCHEDULE B-II EXCEPTIONS
(CONTINUED)

10. The following Financing Statement (UCC-1) must be disposed of:

    Debtor: Russa Realty Corporation
    Secured Party: HSBC Bank USA, National Association
    File No.: 2008000391853
    Filed: October 3, 2008
    Covers: 1660 Boone Avenue, Bronx, NY
    Land (Block 3015 & Lot 1)

    As continued by UCC-3 filed July 25, 2013 in CRFN 2013000293450.

11. Tax search discloses the existence of meters on the premises described herein which have been read to the dates indicated thereon. Unless a final meter reading is obtained Policy will except subsequent and/or additional meter readings entered after the date of closing, and the water and/or sewer charges based on said readings, which readings may include water and/or sewer charges for dates prior to the date of closing, including possible retroactive imposition of lien for water and/or sewer charges.

12. Proof is required by affidavit that the premises do not fall within the jurisdiction of the Perishable Agricultural Commodities Act (PACA) and the Packers and Stockyard Act of 1921, as amended 7 U.S.C. §181, et seq, or any similar state or federal law. Otherwise Policy will except the following: **"Any trust, right, interest or claim that may exist, arise, or be asserted against the Title under or pursuant to the Packers and Stockyard Act of 1921, as amended, 7 U.S.C. §181, et seq., or any similar state or federal law."**

SUTTON LAND TITLE AGENCY
as Agent for
STEWART TITLE INSURANCE COMPANY

MORTGAGE SCHEDULE

Title No.: SL-002392

1. MORTGAGE

Mortgagor:	West Boone Realty Corp.
Mortgagee:	Cathleen Medwick, as Trustee under a testamentary trust established under Article Fourth of the Last Will and Testament of Lucille J. Medwick, deceased
Amount:	$335,000.00
Dated:	December 13, 1994
Recorded:	April 26, 1995
Reel:	1316
Page:	2327
Tax Paid:	$6,675.00

BEING FURTHER INVESTIGATED

2. MORTGAGE

Mortgagor:	Russa Realty Corporation
Mortgagee:	HSBC Bank USA, National Association
Amount:	$1,000,000.00
Dated:	September 23, 2008
Recorded:	October 14, 2008
CRFN:	2008000402862
Tax Paid:	$28,000.00

ASSIGNMENT OF LEASES AND RENTS

From:	Russa Realty Corporation
To:	HSBC Bank USA, National Association
Dated:	September 23, 2008
Recorded:	October 14, 2008
CRFN:	2008000402863

SUTTON LAND TITLE AGENCY
as Agent for
Stewart Title Insurance Company

CLEARANCE INFORMATION

Title No.: SL-002392

THE FOLLOWING IS A LIST OF PLACES AND PHONE NUMBERS WHICH WILL FACILITATE CLEARING SOME OBJECTIONS RAISED IN THIS REPORT. FOR ADDITIONAL INFORMATION CALL:

PARKING VIOLATIONS - A Satisfaction of Judgment must be obtained from the parking Violations Bureau located at any of the below addresses. Said Satisfaction is then to be filed with the New York County Clerk's Office located at 60 Centre Street, New York, NY and upon paying an $8.00 fee they will issue a Certificate of Disposition. In the alternative you can go to nyc.gov/finance and pay the amount due. Please forward to our company a receipt of your payment in order for us to omit any PVB Objection

PVB HELP CENTERS: (718) 422-7800 - OPEN MONDAY THROUGH FRIDAY-8:30 AM TO 7:00 PM
MANHATTAN HELP CENTER - 1 Centre Street (1st Floor)
BRONX HELP CENTER - 1400 Williamsbridge Road
BROOKLYN HELP CENTER - 210 Joralemon Road
QUEENS HELP CENTER - 89-61 162nd Street
STATEN ISLAND HELP CENTER - 300 St. Marks Place

NEW YORK STATE TAX COMMISSION LIENS - For information regarding disposition and payments, please write: Tax Compliance Division, PO Box 5149, Albany, NY 12205, or call (800) 835-3554 or (800) 452-0455.
WEB SITE: www.tax.ny.us

FEDERAL TAX LIENS -For information regarding disposition and payments, please write: The Internal Revenue Service, 290 Broadway, New York, NY or at 210 East Post Road, White Plains, NY 10601 or call (800) 829-1040. In Brooklyn, call (718) 488-2818. Upstate call (716) 961-5305. In New York City call (212) 719-8276.
WEB SITE: www.irs.gov

CITY OF NEW YORK LIENS - For information regarding disposition and payments, please write: The Department of Finance, Bureau of Tax Collection, 345 Adams Street, 5th Floor, Brooklyn, NY 11201.
WEB SITE: http://www1.nyc.gov/site/finance/taxes/taxes.page

HIGHWAY DEPARTMENT (sidewalk violations) - For information regarding disposition and payments, please write: The Highway Department, 51 Chambers Street, New York NY 10007 or call (212) 788-8231.

ENVIRONMENTAL CONTROL LIENS - For information regarding disposition and payments, please write: The Environmental Control Board, 66 John Street, 10th Floor, New York, NY 10001 or call (212) 361-1400.

TRANSIT ADJUDICATION LIENS - For information regarding disposition and payments, please write: 505 Fulton Street, 6th Floor, Brooklyn, NY 10201 or call (347) 643-5800 or (718) 330-3000 (Law Department).

NEW YORK STATE COMMISSIONER: For information regarding dispositions and payments, please write: NYS Department of Labor, Building 12, State Campus, Room 500, Albany, New York 12240 or call (518) 457-2746. WEB SITE: www.labor.ny.gov/home

INTEREST CLERK - For interest on all outstanding taxes in the City of New York or questions regarding In-Rem, please write: The City of New York, Department of Finance, 345 Adams Street, 5th Floor, Brooklyn, NY 11201, or call (718) 935-6533.

NEW YORK STATE DEPARTMENT OF TAX AND FINANCE: For the State of New York, From TP-584 must be completed along with the appropriate tax check (made payable to the NYS Department of Finance, and forwarded to : NYS Department of Taxation and Finance, PO Box 5045, Albany, NY 12205-5045 or call (518) 485-6800 - WEB SITE: www.tax.ny.us

For Filing TP-584 for Co-Ops, forward to Department of Taxation and Finance, Miscellaneous Tax Insourcing Unit, W.A. Harrison Campus, Building 8, Room 600, Albany, NY 11228.

When the property is in the City of New York, The RPT must be completed along with the appropriate tax and made payable to NYC Department of Finance along with an additional check for $25.00 (made payable to the City Register) and forwarded to: Department of Finance, 345 Adams Street, 5th Floor, Brooklyn, NY 11201.

TEAM

The unpaid taxes, water rates, assessments and other matters relating to taxes which are liens at the date of this certificate are set forth below.

TN: 523483
CNTY: BRONX
SECT: 11 VOL: 6
BLOCK: 3015 LOT: 1
TAX CLASS: 4 RATE: 10.514
BLDG CLASS: E9
WAREHOUSES
MISCELLANEOUS

TITLE: SL-002392 DATE: 11/15/2018
COMPANY: SUTTON LAND SERVICES

TAX MAP ATTACHED

2018/2019

TRANSITIONAL LAND.....	$98,100.00
TRANSITIONAL TOTAL.....	$594,090.00
EXEMPT LAND.....	NONE
EXEMPT TOTAL.....	NONE
ACTUAL LAND.....	$98,100.00
ACTUAL TOTAL.....	$654,750.00
ACTUAL EXEMPT LAND.....	NONE
ACTUAL EXEMPT TOTAL.....	NONE

EXEMPTIONS: NO EXEMPTIONS

ASSESSED OWNER: RUSSA REALTY CORPORATION
1015 EAST 173 STREET

Taxes 2018 /2019 1ST HALF Due Date 07/01/2018 REAL ESTATE

Transaction Date		Charges/Adjustments	Payments/Adjustments
06/01/2018	INITIAL CHARGE	$31,231.30	$.00
07/05/2018	PAYMENT	$.00	$31,231.30
	Amount Due:	*$0.00*	

Taxes 2018 /2019 2ND HALF Due Date 01/01/2019 REAL ESTATE

Transaction Date		Charges/Adjustments	Payments/Adjustments
06/01/2018	INITIAL CHARGE	$31,231.30	$.00
	Amount Due:	*$31,231.30 OPEN*	

** ALL PAYMENTS SUBSEQUENT TO 08/17/2018 ARE SUBJECT TO COLLECTION.*
NOTE: SECOND HALF REAL ESTATE SUBJECT TO CHANGE DUE TO TAX RATE ADJUSTMENT

D.E.P. ACCOUNT #6000169675001

METER #6674 FROM 06/30/2018 TO 09/30/2018 ACTUAL
ENTERED 10/10/2018 $116.76 OPEN

METER #6674 FROM 04/01/2018 TO 06/30/2018 ACTUAL
ENTERED 07/09/2018 $114.22 OPEN

RESPONSIBILITY LIMITED TO THOSE ITEMS AND INSTALLMENTS THAT ARE LIENS AS OF DATE OF THIS REPORT AND REFLECT ON THE PUBLIC RECORDS. TAX SEARCH DOES NOT COVER ANY PART OF THE STREETS ON WHICH THE PREMISIS TO INSURED ABUT. RECENT PAYMENTS MAY BE SUBJECT TO COLLECTION. TAX EXEMPTIONS NOTED ABOVE MAYBE RESTORED ON THE DATE OF CONVEYANCE OR UPON DEATH OF RECORD OWNER. TAX SEARCH DOES NOT GUARANTEE AGAINST ANY CLAIMS RESULTING FROM LEVIES OF RESTORED TAXES. ACCURATE WATER METER READING REQUIRED FOR THOSE REPORTED AS MINIMUM, ACTUAL, ESTIMATED AND MULTIPLE READINGS TO AVOID ADDITIONAL CHARGES. TAX SEARCH DOES NOT GUARANTEE AGAINTS NEW METERS OR UNFIXED FRONTAGE CHARGES NOT ON RECORD IN THE DEPARTMENT OF ENVIRONMENTAL PROTECTION. THE RETURNS ARE GURANTEED TO BLOCK AND LOT.

* PLEASE REQUEST THE SELLER OR BORROWER TO HAVE RECEIPTED BILLS AT THE CLOSING *

TEAM

The unpaid taxes, water rates, assessments and other matters relating to taxes which are liens at the date of this certificate are set forth below.

TN: 523483 TITLE: SL-002392 DATE: 11/15/2018

CNTY: BRONX COMPANY: SUTTON LAND SERVICES

SECT: 11 VOL: 6

BLOCK: 3015 LOT: 1

METER #749 SET 06/07/2010 CHARGES PENDING

NOTE: A SPECIAL METER READING SHOULD BE OBTAINED ON ALL ACCOUNTS TO AVOID ADDITIONAL CHARGES.

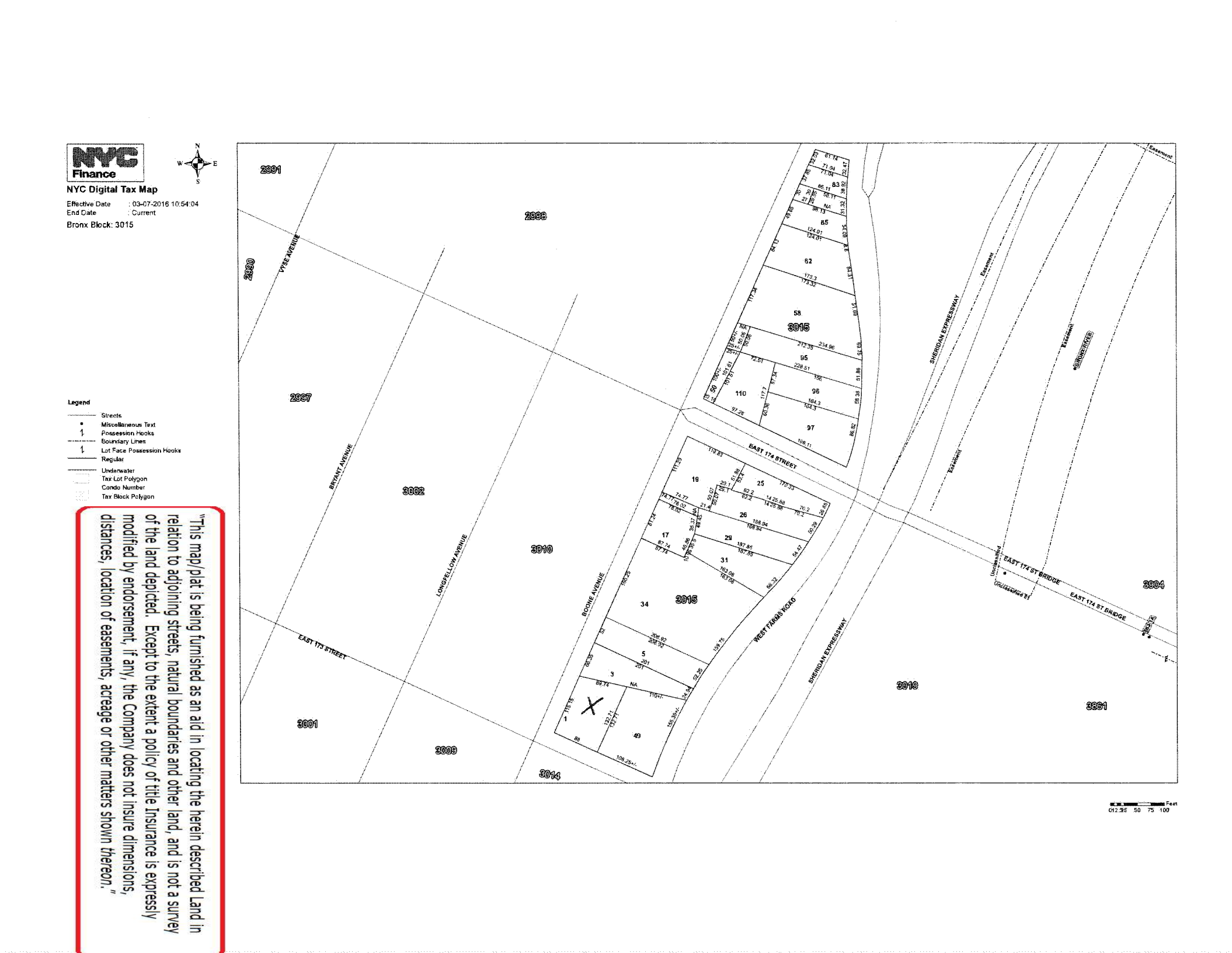
SUBJECT TO CONTINUATION PRIOR TO CLOSING.
NOTHING ELSE FOUND 11/15/2018

TEAM RESEARCH SHALL BEAR NO LIABILITY FOR ERRONEOUS OR INACCURATE INFORMATION PROVIDED BY THE DEPARTMENT OF FINANCE INCLUDING BUT NOT LIMITED TO ERRORS DUE TO LOADING, KEY ENTRY, PROCESSING, DATA COMMUNICATION,HARDWARE AND SOFTWARE PROBLEMS OR THE BACKDATING OF ANY INFORMATION.

NOTE: LOCAL LAW 47 OF THE LAWS OF 1997 PROVIDE NO ANNUAL VAULT CHARGE WILL BE IMPOSED ON OR AFTER 06/01/1998. OUTSTANDING VAULT CHARGES FOR PRIOR YEARS WENT TO WARRANT. CHECK THE RECORDS OF THE SUPREME COURT / COUNTY CLERKS OFFICE FOR OUTSTANDING DOCKETED TAX WARRANTS.

RESPONSIBILITY LIMITED TO THOSE ITEMS AND INSTALLMENTS THAT ARE LIENS AS OF DATE OF THIS REPORT AND REFLECT ON THE PUBLIC RECORDS. TAX SEARCH DOES NOT COVER ANY PART OF THE STREETS ON WHICH THE PREMISIS TO INSURED ABUT. RECENT PAYMENTS MAY BE SUBJECT TO COLLECTION. TAX EXEMPTIONS NOTED ABOVE MAYBE RESTORED ON THE DATE OF CONVEYANCE OR UPON DEATH OF RECORD OWNER. TAX SEARCH DOES NOT GUARANTEE AGAINST ANY CLAIMS RESULTING FROM LEVIES OF RESTORED TAXES. ACCURATE WATER METER READING REQUIRED FOR THOSE REPORTED AS MINIMUM, ACTUAL, ESTIMATED AND MULTIPLE READINGS TO AVOID ADDITIONAL CHARGES. TAX SEARCH DOES NOT GUARANTEE AGAINTS NEW METERS OR UNFIXED FRONTAGE CHARGES NOT ON RECORD IN THE DEPARTMENT OF ENVIRONMENTAL PROTECTION. THE RETURNS ARE GURANTEED TO BLOCK AND LOT.

* PLEASE REQUEST THE SELLER OR BORROWER TO HAVE RECEIPTED BILLS AT THE CLOSING *


NYC Finance
NYC Digital Tax Map
Effective Date : 03-07-2016 10:54:04
End Date : Current
Bronx Block: 3015
N
W
E
S
Legend
Streets
Miscellaneous Text
Possession Hooks
Boundary Lines
Lot Face Possession Hooks
Regular
Underwater
Tax Lot Polygon
Condo Number
Tax Block Polygon
"This map/plat is being furnished as an aid in locating the herein described Land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title Insurance is expressly modified by endorsement, if any, the Company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon."
2991
2998
2990
VYSE AVENUE
2997
BRYANT AVENUE
3002
LONGFELLOW AVENUE
3010
BOONE AVENUE
3015
EAST 174 STREET
EAST 173 STREET
WEST FARMS ROAD
SHERIDAN EXPRESSWAY
Easement
BRONX RIVER
Unclassified
EAST 174 ST BRIDGE
3004
3019
3001
3009
3014
3861
Feet
0 12.5 25 50 75 100

LAST DEED - REEL 1993 PAGE 258 - FILED 04/30/2002 - TAX $1,600.00

CITY REGISTER RECORDING AND ENDORSEMENT PAGE

County of Bronx

Total number of pages in document including this page > 4

This page forms part of the instrument

Block > 3015	Lots – only if entire Lot >	Partial Lots P/O > 1
Premises > 1660 Boone Avenue, Bronx, NY		
Title/agent company name > Mark Abstract Corp		
Title company number > 397-B-2439		

Name > Alexander Minella, Esq.
Address > 2815 Middletown Rd.
City/State/Zip > Bronx , NY 10461

Name & address	Party 1 > West Boone Realty Corp., c/o Clinton Hope, 3362 Mitchell Rd., Eltonwood, OH 3294
	Additional Party 1 >
	Party 2 > Russo Realty Corp., c/o NY Mira Products, 840 Garrison Ave., Bronx, N.Y. 10474
	Additional Party 2 >

Check this box if there are more than 2 of either Party ☐

City Register's use only – do not write below this line

Examined by

City Register Serial Number > 014845

Mtge Tax serial no.	
Mtge amount	$
Taxable amount	$
Exemption Yes ☐ No ☐	
Type [339EE] [255] [other ____]	
Dwelling type 1-2 3 4-6 over 6	
Tax received on above mortgage >	
County (basic)	$
City (addt'l)	$
Special addt'l	$
TASF	$
MTA	$
NYCTA	$
TOTAL TAX	$
Apportionment Mortgage Yes ☐ No ☐	

Indexed by	Verified by
Block(s) and Lot(s) verified by:	
Address ☐	Tax map
Extra Block(s)	Lot(s)
Recording fee	$ 37
Affidavit fee (C)	$
RPTT fee (R)	$ 25
HPD-A ☑	HPD-C ☐
New York State Real Estate Transfer Tax >	
$ 1,600	
RETT Serial No. >	005806
New York City Real Property Transfer Tax	
RPTT Serial No. >	0002654

REEL 1993 PG 0258

DEED AND ATTACH Copy of Contract of Sale + Purchaser's Affid.

DEED 0119 37.00

O/TL CSHR RCPT DATE TIME
2-1 5 139[illegible] Apr 30-02 9:59

Recorded in the Office of the City Register of the City of New York

2002 APR 30 P 9:33

Form CRGFM89.BPG

25 x 10

REEL 1993 PG 0259

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT-THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY

THIS INDENTURE, made the 2nd day of November, 2001

BETWEEN

WEST BOONE REALTY CORP, a New York Corporation
c/o Clinton Hope, 3362 Mitchell Road,
Ellenwood, GA 30294

party of the first part, and

RUSSA REALTY CORP. c/o NY MICA PRODUCTS,
890 Garrison Avenue, Bronx, NY 10474

party of the second part,

WITNESSETH, that the party of the first part, in consideration of TEN ($10.00) dollars paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the City of New York, County of Bronx and State of New York, more particularly bounded and described on Schedule "A" attached hereto and made a part hereof.

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; **TOGETHER** with the appurtenances and all the estate and rights of the party of the first part in and to said premises; **TO HAVE AND TO HOLD** the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose. The word "party" shall be construed as if it read "parties" when ever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

WEST BOONE REALTY CORP.

By: _____

CLINTON HOPE

Standard Form ... Covenant against Grantor's Acts – Uniform Acknowledgment

25 x In

REEL: 993 PG 0260

TO BE USED ONLY WHEN THE ACKNOWLEDGMENT IS MADE IN NEW YORK STATE

State of New York, County of Westchester ss:

On the 5th day of November in the year 2001 before me, the undersigned, personally appeared

CLINTON HOPE

personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

(signature and office of individual taking acknowledgment)
IRWIN R. DOBLIN
Notary Public, State of New York
No. 0973850
Qualified in Nassau County
Commission Expires Apr. 30, 2002

State of New York, County of ss:

On the day of in the year before me, the undersigned, personally appeared

personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

(signature and office of individual taking acknowledgment)

TO BE USED ONLY WHEN THE ACKNOWLEDGMENT IS MADE OUTSIDE NEW YORK STATE

State (or District of Columbia, Territory, or Foreign Country) of ss:

On the day of in the year before me, the undersigned, personally appeared

personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in the

(insert the City or other political subdivision) in (and insert the State or Country or other place the acknowledgment was taken)

(signature and office of individual taking acknowledgment)

Mark Abstract Corp
42-40 Bell Blvd
Bayside NY 11361
(718) 279-8700

BARGAIN AND SALE DEED
WITH COVENANT AGAINST GRANTOR'S ACTS

Title No. 5978249

TO

SECTION 11
BLOCK 3015
LOT 1 P/O Lot 1
COUNTY OR TOWN Bronx County
STREET ADDRESS

Recorded at Request of
COMMONWEALTH LAND TITLE INSURANCE COMPANY

RETURN BY MAIL TO:

Alexander Minella
2815 Middletown Road
Bronx, NY 10461

STANDARD FORM OF NEW YORK BOARD OF TITLE UNDERWRITERS
Distributed by
Commonwealth
A Land America Company
COMMONWEALTH LAND TITLE INSURANCE COMPANY

RESERVE THIS SPACE FOR USE OF RECORDING OFFICE

25x10

SCHEDULE A

ALL that certain plot, piece or parcel of land with the buildings and improvements thereon erected, situate, lying and being in the Borough of the Bronx, City and State of New York, and filed and designated by Section 11, Block #3015, Lot #1 on the Tax Map of the Borough of the Bronx, bounded and described as follows:

BEGINNING at the corner formed by the intersection of the northerly side of East 173rd Street with the easterly side of Boone Avenue;

THENCE northerly along the easterly side of Boone Avenue, 115.15 feet;

THENCE northeasterly on a line forming an interior angle of 101 degrees, 17 minutes, 06 seconds with the preceding course 89.74 feet to a point;

THENCE southerly on a line forming an interior angle of 78 degrees 42 minutes 54 seconds with the preceding course a distance of 132.71 feet to the northerly side of East 173rd Street;

THENCE westerly along the northerly side of East 173rd Street 88.0 feet to the corner, the point and place of BEGINNING.

SCHEDULE B-I

REQUIREMENTS

Mortgages, Assignment of Leases and Rents & UCC’s available upon request

PART 1 OF 2: CASES IN JUDGEMENT

RESPONDENT NAME / SUMMONS NUMBER	RESPONDENT ADDRESS	ORDER DATE	NOTICE DATE	DOCKET DATE	BALANCE DUE	SATISF/VACAT
RUSLAN, SHAPOCHKIN 0177324492	14-48 EAST 4 STREET	10/04/10	11/18/10 BROOKLYN	01/11 NY 11218	$200.00	
RUSLAN LIN 035208507J	1246 59 STREET	07/03/17	08/17/17 BROOKLYN	10/17 NY 11219	$500.00	
RUSO, MICHAEL 0189768197	1983 EASTERN PARKWAY	05/11/16	06/27/16 BROOKLYN	08/16 NY 11233	$300.00	
RUSOVAN, KATARINA 040918747X	183 BEACH 114 STREET	04/23/14	06/09/14 ROCKAWAY PARK	07/14 NY 11694	$300.00	
RUSOVAN, KATARINA 044294353X	1819 BLEECKER STREET	02/09/18	03/26/18 RIDGEWOOD	05/18 NY 11385	$300.00	
RUSS, DEL 0192965466	1102 CLARENCE AVENUE	02/17/17	 BRONX	05/17 NY 10465	$100.00	
RUSS, JOHN D 0155730493	307 OLYMPIA BOULEVARD	12/27/10	02/10/11 STATEN ISLAND	03/11 NY 10305	$400.00	
RUSS, KEVIN S 0174232704	1843 PITKIN AVENUE	02/06/12	03/22/12 BROOKLYN	05/12 NY 11212	$300.00	
RUSS, KEVIN S 0194013830	1843 PITKIN AVENUE	03/31/17	05/15/17 BROOKLYN	06/17 NY 11212	$300.00	
RUSSA REALTY CORPORATION 0195917050	1660 BOONE AVENUE	09/06/17	10/23/17 BRONX	12/17 NY 10460	$300.00	
RUSSA REALTY CORPORATION 0193514485	1015 EAST 173 STREET	12/14/16	01/30/17 BRONX	03/17 NY 10460	$1,000.00	
RUSSA REALTY CORPORATION 0193514467	1015 EAST 173 STREET	12/14/16	01/30/17 BRONX	03/17 NY 10460	$1,000.00	
RUSSA REALTY CORPORATION 0193514476	1015 EAST 173 STREET	12/14/16	01/30/17 BRONX	03/17 NY 10460	$1,000.00	
RUSSADO, EDWIN 0184844927	299 BROADWAY	07/14/14	08/28/14 BROOKLYN	10/14 NY 11211	$59.00	
RUSSEAU, KATIE 0156065700	4209 CHESTER AVE	01/13/14	02/27/14 PHILADELPHIA	04/14 PA 19104	$200.00	
RUSSEL, AIROMO 044283781Z	111-40 147 STREET	04/25/16	06/10/16 JAMAICA	07/16 NY 11435	$100.00	
RUSSEL, FRANKLIN 0193995010	1121 MORRIS AVENUE	01/11/17	02/27/17 BRONX	04/17 NY 10456	$300.00	
RUSSEL, JANETTE W 040958194L	172-15 109 AVENUE	03/09/17	 JAMAICA	06/17 NY 11433	$100.00	
RUSSEL, JANETTE W 042685264J	172-15 109 AVENUE	03/09/17	 JAMAICA	06/17 NY 11433	$100.00	
RUSSEL, MARIE E 0187992779	789 EAST 34 STREET	07/28/15	09/11/15 BROOKLYN	10/15 NY 11210	$120.00	
RUSSEL, TANYA 0174557855	1328 CHISHOLM STREET	11/14/11	12/29/11 BRONX	02/12 NY 10459	$300.00	
RUSSEL, TANYA 0194776093	1328 CHISHOLM STREET	05/30/17	07/14/17 BRONX	08/17 NY 10459	$25.00	
RUSSEL, UMAHOIN K 040859091P	160-18 111 AVENUE	03/20/12	05/04/12 JAMAICA	06/12 NY 11433	$300.00	
RUSSEL, UMAHOIN K 042672603M	160-18 111 AVENUE	02/28/11	04/14/11 JAMAICA	05/11 NY 11433	$350.00	

SCHEDULE B-II

EXCEPTIONS

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

This page is part of the instrument. The City Register will rely on the information provided by you on this page for purposes of indexing this instrument. The information on this page will control for indexing purposes in the event of any conflict with the rest of the document.

2008100101207001001E20E6

RECORDING AND ENDORSEMENT COVER PAGE **PAGE 1 OF 5**

Document ID: 2008100101207001 Document Date: 10-01-2008 Preparation Date: 10-01-2008
Document Type: INITIAL UCC1 FIXTURE FILING
Document Page Count: 4

PRESENTER:
CSC - ALBANY
285 22ND STREET
3RD FLOOR
BROOKLYN, NY 11215
HOLD FOR PICK UP

RETURN TO:
CSC - ALBANY
285 22ND STREET
3RD FLOOR
BROOKLYN, NY 11215
HOLD FOR PICK UP

PROPERTY DATA

Borough	Block	Lot	Unit	Address
BRONX	3015	1	Partial Lot	1660 BOONE AVENUE

Property Type: COMMERCIAL REAL ESTATE

CROSS REFERENCE DATA

CRFN_____ *or* Document ID_____ *or* _____ Year____ Reel ___ Page ____ *or* File Number_____

PARTIES

DEBTOR:
RUSSA REALTY CORPORATION
1660 BOONE AVENUE
BRONX, NY 10460

SECURED PARTY:
HSBC BANK USA, NATIONAL ASSOCIATION
ONE HSBC CENTER
BUFFALO, NY 14203

FEES AND TAXES

Mortgage		
Mortgage Amount:	$	0.00
Taxable Mortgage Amount:	$	0.00
Exemption:		
TAXES: County (Basic):	$	0.00
City (Additional):	$	0.00
Spec (Additional):	$	0.00
TASF:	$	0.00
MTA:	$	0.00
NYCTA:	$	0.00
Additional MRT:	$	0.00
TOTAL:	$	0.00
Recording Fee:	$	40.00
Affidavit Fee:	$	0.00

Filing Fee: $ 0.00
NYC Real Property Transfer Tax: $ 0.00
NYS Real Estate Transfer Tax: $ 0.00

RECORDED OR FILED IN THE OFFICE OF THE CITY REGISTER OF THE CITY OF NEW YORK
Recorded/Filed 10-03-2008 10:26
City Register File No.(CRFN): **2008000391853**

City Register Official Signature

[redacted]

UCC FINANCING STATEMENT

FOLLOW INSTRUCTIONS (front and back) CAREFULLY

A. NAME & PHONE OF CONTACT AT FILER [optional]
Todd A. Knauer, Esq. 631.694.2400

B. SEND ACKNOWLEDGMENT TO: (Name and Address)

Todd A. Knauer, Esq.
Hamburger, Maxson, Yaffe, Wishod & Knauer, LLP
225 Broadhollow Road, Suite 301E
Melville, NY 11747

THE ABOVE SPACE IS FOR FILING OFFICE USE ONLY

1. DEBTOR'S EXACT FULL LEGAL NAME - insert only one debtor name (1a or 1b) - do not abbreviate or combine names

1a. ORGANIZATION'S NAME: RUSSA REALTY CORPORATION

OR

1b. INDIVIDUAL'S LAST NAME	FIRST NAME	MIDDLE NAME	SUFFIX

1c. MAILING ADDRESS	CITY	STATE	POSTAL CODE	COUNTRY
1660 Boone Avenue	Bronx	NY	10460	USA

1d. SEE INSTRUCTIONS	ADD'L INFO RE ORGANIZATION DEBTOR	1e. TYPE OF ORGANIZATION	1f. JURISDICTION OF ORGANIZATION	1g. ORGANIZATIONAL ID #, if any
		Corporation	New York	☑ NONE

2. ADDITIONAL DEBTOR'S EXACT FULL LEGAL NAME - insert only one debtor name (2a or 2b) - do not abbreviate or combine names

2a. ORGANIZATION'S NAME

OR

2b. INDIVIDUAL'S LAST NAME	FIRST NAME	MIDDLE NAME	SUFFIX

2c. MAILING ADDRESS	CITY	STATE	POSTAL CODE	COUNTRY

2d. SEE INSTRUCTIONS	ADD'L INFO RE ORGANIZATION DEBTOR	2e. TYPE OF ORGANIZATION	2f. JURISDICTION OF ORGANIZATION	2g. ORGANIZATIONAL ID #, if any
				☐ NONE

3. SECURED PARTY'S NAME (or NAME of TOTAL ASSIGNEE of ASSIGNOR S/P) - insert only one secured party name (3a or 3b)

3a. ORGANIZATION'S NAME: HSBC Bank USA, National Association

OR

3b. INDIVIDUAL'S LAST NAME	FIRST NAME	MIDDLE NAME	SUFFIX

3c. MAILING ADDRESS	CITY	STATE	POSTAL CODE	COUNTRY
One HSBC Center	Buffalo	NY	14203	USA

4. This FINANCING STATEMENT covers the following collateral:

SEE ATTACHED SCHEDULE

5. ALTERNATIVE DESIGNATION [if applicable]: ☐ LESSEE/LESSOR ☐ CONSIGNEE/CONSIGNOR ☐ BAILEE/BAILOR ☐ SELLER/BUYER ☐ AG. LIEN ☐ NON-UCC FILING

6. ☑ This FINANCING STATEMENT is to be filed [for record] (or recorded) in the REAL ESTATE RECORDS. Attach Addendum [if applicable] | 7. Check to REQUEST SEARCH REPORT(S) on Debtor(s) [ADDITIONAL FEE] [optional] ☐ All Debtors ☐ Debtor 1 ☐ Debtor 2

8. OPTIONAL FILER REFERENCE DATA
Bronx County Register

FILING OFFICE COPY — UCC FINANCING STATEMENT (FORM UCC1) (REV. 05/22/02)

UCC FINANCING STATEMENT ADDENDUM

FOLLOW INSTRUCTIONS (front and back) CAREFULLY

9. NAME OF FIRST DEBTOR (1a or 1b) ON RELATED FINANCING STATEMENT

9a. ORGANIZATION'S NAME

OR RUSSA REALTY CORPORATION

9b. INDIVIDUAL'S LAST NAME	FIRST NAME	MIDDLE NAME,SUFFIX

10. MISCELLANEOUS:

THE ABOVE SPACE IS FOR FILING OFFICE USE ONLY

11. ADDITIONAL DEBTOR'S EXACT FULL LEGAL NAME - insert only one name (11a or 11b) - do not abbreviate or combine names

11a. ORGANIZATION'S NAME

OR

11b. INDIVIDUAL'S LAST NAME	FIRST NAME	MIDDLE NAME	SUFFIX

11c. MAILING ADDRESS	CITY	STATE	POSTAL CODE	COUNTRY

11d. SEE INSTRUCTIONS	ADD'L INFO RE ORGANIZATION DEBTOR	11e. TYPE OF ORGANIZATION	11f. JURISDICTION OF ORGANIZATION	11g. ORGANIZATIONAL ID #, if any
				☐ NONE

12. ☐ ADDITIONAL SECURED PARTY'S or ☐ ASSIGNOR S/P'S NAME - insert only one name (12a or 12b)

12a. ORGANIZATION'S NAME

OR

12b. INDIVIDUAL'S LAST NAME	FIRST NAME	MIDDLE NAME	SUFFIX

12c. MAILING ADDRESS	CITY	STATE	POSTAL CODE	COUNTRY

13. This FINANCING STATEMENT covers ☐ timber to be cut or ☐ as-extracted collateral, or is filed as a ☑ fixture filing.

14. Description of real estate:

1660 Boone Avenue
Bronx, NY 10460

Block: 3015
Lot: 1

See attached metes and bounds description

15. Name and address of a RECORD OWNER of above-described real estate (if Debtor does not have a record interest):

16. Additional collateral description:

17. Check only if applicable and check only one box.

Debtor is a ☐ Trust or ☐ Trustee acting with respect to property held in trust or ☐ Decedent's Estate

18. Check only if applicable and check only one box.

☐ Debtor is a TRANSMITTING UTILITY

☐ Filed in connection with a Manufactured-Home Transaction — effective 30 years

☐ Filed in connection with a Public-Finance Transaction — effective 30 years

FILING OFFICE COPY — UCC FINANCING STATEMENT ADDENDUM (FORM UCC1Ad) (REV. 05/22/02)

RUSSA REALTY CORPORATION

ALL that certain plot, piece or parcel of land, situate, lying and being in the Borough of the Bronx, City and State of New York, and filed and designated by Section 11, Block #3015, Lot #1 on the Tax Map of the Borough of the Bronx, bounded and described as follows:

BEGINNING at the corner formed by the intersection of the Northerly side of East 173rd Street with the Easterly side of Boone Avenue;

THENCE Northerly along the Easterly side of Boone Avenue, 115.15 feet;

THENCE Northeasterly on a line forming an interior angle of 101 degrees, 17 minutes, 06 seconds with the preceding course 89.74 feet to a point;

THENCE Southerly on a line forming an interior angle of 78 degrees 42 minutes 54 seconds with the preceding course a distance of 132.71 feet to the Northerly side of East 173rd Street;

THENCE Westerly along the Northerly side of East 173rd Street 88.0 feet to the corner, the point or place of BEGINNING.

FOR INFORMATION ONLY:
Premises are known as and by: 1015 East 173rd Street, Bronx, NY
Block: 3015 Lot: 1

RUSSA REALTY CORPORATION

All right, title and interest of Debtor in and to (i) all leases and other agreements affecting the use or occupancy of the premises located at 1660 Boone Avenue, Bronx, New York 10460 (Tax Map Designation: Block 3015, Lot 1) (hereinafter called the Premises) now or hereafter entered into, (ii) all rents, issues and profits of the Premises, (iii) all awards or payments, including interest thereon, which may be made with respect to the Premises, whether from the exercise of the right of eminent domain or otherwise (including any transfer made in lieu of the exercise of said rights), or for any other injury to or decrease in the value of the Premises, (iv) all proceeds of and all unearned premiums on any insurance policy covering the Premises, and (v) all machinery, apparatus, equipment, fittings, fixtures and other property of every kind and nature whatsoever owned by Debtor, or in which Debtor has or shall have an interest, now or hereafter affixed to, or made a part of, or used in connection with the Premises.

This UCC-1 Financing Statement is filed in connection with a certain First Mortgage dated September 23, 2008 between Debtor and Secured Party securing the principal sum of $1,000,000.00.

UCC-3 - CONTINUATION OF UCC-1 IN 2008000391853

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

This page is part of the instrument. The City Register will rely on the information provided by you on this page for purposes of indexing this instrument. The information on this page will control for indexing purposes in the event of any conflict with the rest of the document.

2013071900593001001E7087

RECORDING AND ENDORSEMENT COVER PAGE **PAGE 1 OF 3**

Document ID: 2013071900593001 Document Date: 07-19-2013 Preparation Date: 07-19-2013
Document Type: UCC3 CONTINUATION FIXTURE FILING
Document Page Count: 2

PRESENTER:
HSBC BANK USA, NATIONAL ASSOCIATION
ONE HSBC CENTER - 29TH FL
BUFFALO, NY 14203
716-841-1148
LESLIE.JUSZKIEWICZ@US.HSBC.COM

RETURN TO:
HSBC BANK USA, NATIONAL ASSOCIATION
ONE HSBC CENTER - 29TH FL
BUFFALO, NY 14203
716-841-1148
LESLIE.JUSZKIEWICZ@US.HSBC.COM

PROPERTY DATA

Borough	Block	Lot	Unit	Address
BRONX	3015	1	Partial Lot	1660 BOONE AVENUE

Property Type: COMMERCIAL REAL ESTATE

CROSS REFERENCE DATA

CRFN: 2008000391853

PARTIES

DEBTOR:
RUSSA REALTY CORPORATION
1660 BOONE AVENUE
BRONX, NY 10460

SECURED PARTY:
HSBC BANK USA, NATIONAL ASSOCIATION
ONE HSBC CENTER
BUFFALO, NY 14203

FEES AND TAXES

Mortgage :		
Mortgage Amount:	$	0.00
Taxable Mortgage Amount:	$	0.00
Exemption:		
TAXES: County (Basic):	$	0.00
City (Additional):	$	0.00
Spec (Additional):	$	0.00
TASF:	$	0.00
MTA:	$	0.00
NYCTA:	$	0.00
Additional MRT:	$	0.00
TOTAL:	$	0.00
Recording Fee:	$	40.00
Affidavit Fee:	$	0.00

Filing Fee: $ 0.00
NYC Real Property Transfer Tax: $ 0.00
NYS Real Estate Transfer Tax: $ 0.00

RECORDED OR FILED IN THE OFFICE OF THE CITY REGISTER OF THE CITY OF NEW YORK
Recorded/Filed 07-25-2013 16:43
City Register File No.(CRFN): **2013000293450**

City Register Official Signature

[redacted]

UCC FINANCING STATEMENT AMENDMENT

FOLLOW INSTRUCTIONS (front and back) CAREFULLY

A. NAME & PHONE OF CONTACT AT FILER [optional]

B. SEND ACKNOWLEDGMENT TO: (Name and Address)

HSBC Bank USA, National Association
ATTN: Leslie Juszkiewicz
One HSBC Center - 29th fl
Buffalo, NY 14203

THE ABOVE SPACE IS FOR FILING OFFICE USE ONLY

1a. INITIAL FINANCING STATEMENT FILE #
2008000391853 10/3/08

1b. ☑ This FINANCING STATEMENT AMENDMENT is to be filed [for record] (or recorded) in the REAL ESTATE RECORDS.

2. ☐ TERMINATION: Effectiveness of the Financing Statement identified above is terminated with respect to security interest(s) of the Secured Party authorizing this Termination Statement.

3. ☑ CONTINUATION: Effectiveness of the Financing Statement identified above with respect to security interest(s) of the Secured Party authorizing this Continuation Statement is continued for the additional period provided by applicable law.

4. ☐ ASSIGNMENT (full or partial): Give name of assignee in item 7a or 7b and address of assignee in item 7c and also give name of assignor in item 9.

5. AMENDMENT (PARTY INFORMATION): This Amendment affects ☐ Debtor or ☐ Secured Party of record. Check only one of these two boxes.

Also check one of the following three boxes and provide appropriate information in items 6 and/or 7

☐ CHANGE name and/or address: Please refer to the detailed instructions in regards to changing the name/address of a party. ☐ DELETE name: Give record name to be deleted in item 6a or 6b. ☐ ADD name: Complete item 7a or 7b, and also item 7c; also complete items 7e-7g (if applicable).

6. CURRENT RECORD INFORMATION:

6a. ORGANIZATION'S NAME
Russa Realty Corporation

OR

6b. INDIVIDUAL'S LAST NAME	FIRST NAME	MIDDLE NAME	SUFFIX

7. CHANGED (NEW) OR ADDED INFORMATION:

7a. ORGANIZATION'S NAME

OR

7b. INDIVIDUAL'S LAST NAME	FIRST NAME	MIDDLE NAME	SUFFIX

7c. MAILING ADDRESS	CITY	STATE	POSTAL CODE	COUNTRY

7d. SEE INSTRUCTIONS	ADD'L INFO RE ORGANIZATION DEBTOR	7e. TYPE OF ORGANIZATION	7f. JURISDICTION OF ORGANIZATION	7g. ORGANIZATIONAL ID #, if any
				☐ NONE

8. AMENDMENT (COLLATERAL CHANGE): check only one box.

Describe collateral ☐ deleted or ☐ added, or give entire ☐ restated collateral description, or describe collateral ☐ assigned.

9. NAME OF SECURED PARTY OF RECORD AUTHORIZING THIS AMENDMENT (name of assignor, if this is an Assignment). If this is an Amendment authorized by a Debtor which adds collateral or adds the authorizing Debtor, or if this is a Termination authorized by a Debtor, check here ☐ and enter name of DEBTOR authorizing this Amendment.

9a. ORGANIZATION'S NAME
HSBC Bank USA, National Association

OR

9b. INDIVIDUAL'S LAST NAME	FIRST NAME	MIDDLE NAME	SUFFIX

10. OPTIONAL FILER REFERENCE DATA
0433279647 607044 Bronx Cty NYMPCO CORP

FILING OFFICE COPY — UCC FINANCING STATEMENT AMENDMENT (FORM UCC3) (REV. 05/22/02)

UCC FINANCING STATEMENT AMENDMENT ADDENDUM

FOLLOW INSTRUCTIONS (front and back) CAREFULLY

11. INITIAL FINANCING STATEMENT FILE # (same as item 1a on Amendment form)

2008000391853 10/3/08

12. NAME OF PARTY AUTHORIZING THIS AMENDMENT (same as item 9 on Amendment form)

12a. ORGANIZATION'S NAME

HSBC Bank USA, National Association

OR

12b. INDIVIDUAL'S LAST NAME	FIRST NAME	MIDDLE NAME,SUFFIX

13. Use this space for additional information

THE ABOVE SPACE IS FOR FILING OFFICE USE ONLY

1660 Boone Avenue Bronx, NY County of Bronx

Block: 3015
Lot: 1

Record Owner: Debtor

SUTTON LAND TITLE AGENCY
as Agent for
STEWART TITLE INSURANCE COMPANY

MUNICIPAL DEPARTMENT SEARCHES AND STREET REPORT

Title No.: **SL-002392**

Any searches or returns reported herein are furnished **FOR INFORMATION ONLY**. They will not be insured and the company assumes no liability for the accuracy thereof. They **WILL NOT BE CONTINUED** to the date of closing.

Air Resources Search	**TO FOLLOW**
Certificate of Occupancy	**HEREIN**
Emergency Repair Search	**HEREIN**
Fuel Oil Report	**HEREIN**
Highway Search	**HEREIN**
Health Search	**TO FOLLOW**
Housing and Building Search	**HEREIN**
Fire Search	**HEREIN**
Street Report	**HEREIN**
Tax Search	**HEREIN**

STREET VAULTS

In New York City, if there is a STREET VAULT, it is suggested that the applicant investigate possible unpaid license fees by the City of New York for the use of such vault, because the right to maintain it **IS NOT INSURED**, nor does the Company insure that the vault charges have been paid.

TEAM RESEARCH

188 MONTAGUE ST * SUITE 900 * BROOKLYN, NY 11201
PHONE: (718)596-8500 FAX: (718)596-3500
WEB: WWW.TEAM-RESEARCH.COM
E-MAIL: TEAM.RESEARCH@VERIZON.NET

DATE: 11/15/2018 TITLE NUMBER: SL-002392
TN: 523483 COMPANY: SUTTON LAND SERVICES
COUNTY: BRONX BLOCK: 3015 LOT: 1

PREMISES: 1660 / 1674 BOONE AVENUE
AKA 1015 / 1021 EAST 173 STREET

CERTIFICATE of OCCUPANCY SEARCH

ATTACHED FIND A COPY OF CERTIFICATE OF OCCUPANCY #27910
ISSUED ON 11/5/1959 FOR A CELLAR AND TWO STORY NON-FIREPROOF BUILDING; MANUFACTURE OF ARTIFICAL RUBBER CEMENT AND OFFICES

ACCORDING TO THE BUILDING DEPARTMENT INDEX/COMPUTER RECORDS, THERE ARE NO ALTERATION PLANS APPROVED SUBSEQUENT TO THE CERTIFICATE OF OCCUPANCY THAT CHANGE THE LEGAL OCCUPANCY OF THESE PREMISES.
(COMPUTER RECORDS ALTERATION TYPE 1)

THE ATTACHED CERTIFICATE OF OCCUPANCY IS CORRECT BY DESCRIPTION.

THIS REPORT IS SUBMITTED FOR INFORMATION PURPOSES ONLY AND FOR THE EXCLUSIVE USE OF SUTTON LAND SERVICES

TEAM RESEARCH DOES HEREBY CERTIFY THAT THE RECORDS OF THE ABOVE GOVERNMENTAL AGENCIES WERE EXAMINED. THE INFORMATION REPORTED ABOVE IS A TRUE AND ACCURATE ABSTRACT OF THE INFORMATION CONTAINED HEREIN, AND NO LIABILITY IS ASSUMED.

Form 84-8M-702959(57) 114

DEPARTMENT OF BUILDINGS

BOROUGH OF BRONX , THE CITY OF NEW YORK

No. 27910

Date NOV 5 1959

CERTIFICATE OF OCCUPANCY

(Standard form adopted by the Board of Standards and Appeals and issued pursuant to Section 646 of the New York Charter, and Sections C.26-181.0 to C26-187.0 inclusive Administrative Code 2.1.3.1. to 2.1.3.7. Building Code.)

This certificate supersedes C. O. No. 25482/58

To the owner or owners of the building or premises:

THIS CERTIFIES that the ~~new~~ altered ~~existing~~ building—premises located at

1660 Boone Ave. N/E Cor. E. 173 St.

Block 3015 Lot 1

, conforms substantially to the approved plans and specifications, and to the requirements of the building code and all other laws and ordinances, and of the rules and regulations of the Board of Standards and Appeals, applicable to a building of its class and kind at the time the permit was issued; and

CERTIFIES FURTHER that, any provisions of Section 646F of the New York Charter have been complied with as certified by a report of the Fire Commissioner to the Borough Superintendent.

~~New~~ Alt. No.— 1050-58 Construction classification— Non-fireproof

Occupancy classification— Commercial , Height 2 stories, 30 feet.

Date of completion— 10-27-59 , Located in Unrestricted Use District,

B Area Class 1½ , Height Zone at time of issuance of permit

This certificate is issued subject to the limitations hereinafter specified and to the following resolutions of the Board of Standards and Appeals: (Calendar numbers to be inserted here)

PERMISSIBLE USE AND OCCUPANCY

STORY	LIVE LOADS Lbs. per Sq. Ft.	PERSONS ACCOMMODATED MALE	FEMALE	TOTAL	USE
Cellar	on ground	6	1	7	Mfg. of Artifical Rubber Cement, Boiler Room & Storage
First	50 & 120	14	4	18	Mfg. of Artifical Rubber Cement, Office, Storage & Labratory Room.
Second	50	3	15	18	Office

ZONING O. K.
NOV 5 1959

Borough Superintendent

CERTIFICATE WILL BE NULL AND VOID IF ALTERED IN ANY MANNER OR ADDITIONS ARE MADE THERETO.

TEAM RESEARCH

188 MONTAGUE ST * SUITE 900 * BROOKLYN, NY 11201
PHONE: (718)596-8500 FAX: (718)596-3500
WEB: WWW.TEAM-RESEARCH.COM
E-MAIL: TEAM.RESEARCH@VERIZON.NET

DATE: 11/15/2018 TITLE NUMBER: SL-002392

TN: 523483 COMPANY: SUTTON LAND SERVICES

COUNTY: BRONX BLOCK: 3015 LOT: 1

PREMISES: 1660 / 1674 BOONE AVENUE
AKA 1015 / 1021 EAST 173 STREET

HOUSING PRESERVATION AND DEVELOPMENT
EMERGENCY REPAIRS

THE SEARCH OF THE LAST PRINTED LIEN BOOK REVEALS THE FOLLOWING EMERGENCY REPAIR MONEY DUE:

DATE: 09-OCT-2018 AMOUNT: $0.00

THE RESULT OF THE WORK-IN-PROGRESS SEARCH REVEALS THAT:

NO EMERGENCY REPAIRS HAVE BEEN GIVEN OUT AT THE ABOVE CAPTIONED PREMISES SUBSEQUENT TO THE ABOVE LIEN DATE.

THIS REPORT IS SUBMITTED FOR INFORMATION PURPOSES ONLY AND FOR THE EXCLUSIVE USE OF SUTTON LAND SERVICES

TEAM RESEARCH DOES HEREBY CERTIFY THAT THE RECORDS OF THE ABOVE GOVERNMENTAL AGENCIES WERE EXAMINED. THE INFORMATION REPORTED ABOVE IS A TRUE AND ACCURATE ABSTRACT OF THE INFORMATION CONTAINED HEREIN, AND NO LIABILITY IS ASSUMED.

FIRE DEPARTMENT OF THE CITY OF NEW YORK
PUBLIC RECORDS UNIT / FIRE RECORDS SECTION
9 METRO-TECH
BROOKLYN, N.Y 11201-3857

RECORD SEARCH REQUEST

MAIL TO:
TEAM RESEARCH, INC.
188 MONTAGUE ST * SUITE 900
BROOKLYN, NY 11201

THE UNDERSIGNED REQUESTS THE FOLLOWING INFORMATION RE: PREMISES
1660 / 1674 BOONE AVENUE
AKA 1015 / 1021 EAST 173 STREET

COUNTY: BRONX

( ) 1. RECORD OF EXISTING FIRE DEPARTMENT VIOLATIONS
(X) 2. RECORD OF PERMIT FOR OIL BURNER
( ) 3. OTHER

(THE CITY OF NEW YORK IS NOT BEING SUED. NOR IS THERE ANY INTENTION TO SUE.)

SIGNED: TEAM RESEARCH
DATE: 11/15/2018

GENTLEMEN: IN REPLY TO YOUR REQUEST CONCERNING THE PREMISES MENTIONED ABOVE, PLEASE BE ADVISED THAT AS OF 9 A.M., NOV 15 2018 THE RECORDS SHOW THE FOLLOWING;

NO FUEL OIL BURNER PERMIT

VIOLATIONS RECORDED ABOVE ARE ONLY THOSE WHICH ARE A MATTER OF RECORD IN THE HEADQUARTERS OF THE BUREAU OF FIRE PREVENTION, AND MAY NOT INCLUDE VIOLATIONS ISSUED BY LOCAL UNITS.

TEAM RESEARCH

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E-MAIL: TEAM.RESEARCH@VERIZON.NET

DATE: 11/15/2018 TITLE NUMBER: SL-002392

TN: 523483 COMPANY: SUTTON LAND SERVICES

COUNTY: BRONX BLOCK: 3015 LOT: 1

PREMISES: 1660 / 1674 BOONE AVENUE
AKA 1015 / 1021 EAST 173 STREET

HIGHWAY VIOLATIONS REPORT

THE SEARCH OF THE HIGHWAY DEPARTMENT SHOWS THE FOLLOWING RESULTS:
SIDEWALK VIOLATIONS:

NONE

ANY RELEASE OR DISMISSAL OF VIOLATIONS DOES NOT ENTITLE PROPERTY OWNERS TO A CANCELLATION OF ANY BILLS ON THE RECORD IN THE OFFICE OF THE CITY COLLECTOR.

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WEB: WWW.TEAM-RESEARCH.COM
E-MAIL: TEAM.RESEARCH@VERIZON.NET

DATE: 11/15/2018 TITLE NUMBER: SL-002392

TN: 523483 COMPANY: SUTTON LAND SERVICES

COUNTY: BRONX BLOCK: 3015 LOT: 1

PREMISES: 1660 / 1674 BOONE AVENUE
AKA 1015 / 1021 EAST 173 STREET

HOUSING and BUILDING DEPARTMENT SEARCH

A SEARCH OF THE RECORDS OF THE DEPARTMENT OF BUILDINGS, AND THE DEPARTMENT OF RENT AND HOUSING MAINTENANCE OF THE CITY OF NEW YORK WAS MADE AND THE FOLLOWING VIOLATIONS WERE REPORTED PENDING AS OF THE LAST DATE OF POSTING: 01-SEP-2018

BUILDING DEPARTMENT:

TWENTY FIVE VIOLATIONS ATTACHED

RENT AND HOUSING MAINTENANCE DEPARTMENT:

NONE

BUILDING CLASSIFICATION:

COMMERCIAL BUILDING

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NYC Buildings

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DOB Violation Display for 060994LL629101357

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date:	06/09/1994	**Violation Category:**	V - DOB VIOLATION - ACTIVE
Violation Type:	LL6291 - LOCAL LAW 62/91 - BOILERS		
Violation Number:	01357	**Device No.:**	00034953 - 01-COMMERCIAL
ECB No.:			
Infraction Codes:			
Description:			

Click here to view the Civil Penalty Chart.

Disposition:
Code: **Date:**
Inspector:
Comments:

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

NYC Buildings

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DOB Violation Display for 042393LL629100164

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date:	04/23/1993	**Violation Category:**	V - DOB VIOLATION - ACTIVE
Violation Type:	LL6291 - LOCAL LAW 62/91 - BOILERS		
Violation Number:	00164	**Device No.:**	00034953 - 02-COMMERCIAL
ECB No.:			
Infraction Codes:			
Description:			

Click here to view the Civil Penalty Chart.

Disposition:
Code: **Date:**
Inspector:
Comments:

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

NYC Buildings

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DOB Violation Display for 042393LL629100165

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date: 04/23/1993
Violation Type: LL6291 - LOCAL LAW 62/91 - BOILERS
Violation Number: 00165
ECB No.:
Infraction Codes:
Description:
Click here to view the Civil Penalty Chart.

Violation Category: V - DOB VIOLATION - ACTIVE
Device No.: 00034953 - 03-COMMERCIAL

Disposition:
Code: **Date:**
Inspector:
Comments:

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NYC Buildings

NYC

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NYC Department of Buildings

DOB Violation Display for 051793LL629102098

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date: 05/17/1993
Violation Type: LL6291 - LOCAL LAW 62/91 - BOILERS
Violation Number: 02098
ECB No.:
Infraction Codes:
Description:
Click here to view the Civil Penalty Chart.

Violation Category: V - DOB VIOLATION - ACTIVE
Device No.: 00034953 - 01-COMMERCIAL

Disposition:
Code: **Date:**
Inspector:
Comments:

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NYC Buildings

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DOB Violation Display for 060994LL629101358

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date: 06/09/1994
Violation Type: LL6291 - LOCAL LAW 62/91 - BOILERS
Violation Number: 01358
ECB No.:
Infraction Codes:
Description:
Click here to view the Civil Penalty Chart.

Violation Category: V - DOB VIOLATION - ACTIVE
Device No.: 00034953 - 02-COMMERCIAL

Disposition:
Code: **Date:**
Inspector:
Comments:

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NYC Buildings

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DOB Violation Display for 060994LL629101359

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date: 06/09/1994
Violation Type: LL6291 - LOCAL LAW 62/91 - BOILERS
Violation Number: 01359
ECB No.:
Infraction Codes:
Description:
Click here to view the Civil Penalty Chart.

Violation Category: V - DOB VIOLATION - ACTIVE
Device No.: 00034953 - 03-COMMERCIAL

Disposition:
Code: **Date:**
Inspector:
Comments:

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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DOB Violation Display for 082995LL629116058

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date:	08/29/1995	**Violation Category:**	V - DOB VIOLATION - ACTIVE
Violation Type:	LL6291 - LOCAL LAW 62/91 - BOILERS		
Violation Number:	16058	**Device No.:**	00034953 - 02-COMMERCIAL
ECB No.:			
Infraction Codes:			
Description:			

Click here to view the Civil Penalty Chart.

Disposition:
Code: **Date:**
Inspector:
Comments:

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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DOB Violation Display for 082995LL629116059

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date: 08/29/1995
Violation Type: LL6291 - LOCAL LAW 62/91 - BOILERS
Violation Number: 16059
ECB No.:
Infraction Codes:
Description:
Click here to view the Civil Penalty Chart.

Violation Category: V - DOB VIOLATION - ACTIVE
Device No.: 00034953 - 03-COMMERCIAL

Disposition:
Code: **Date:**
Inspector:
Comments:

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DOB Violation Display for 021097LL629113605

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date: 02/10/1997
Violation Type: LL6291 - LOCAL LAW 62/91 - BOILERS
Violation Number: 13605
ECB No.:
Infraction Codes:
Description:
Click here to view the Civil Penalty Chart.

Violation Category: V - DOB VIOLATION - ACTIVE
Device No.: 00034953 - 01-COMMERCIAL

Disposition:
Code: **Date:**
Inspector:
Comments:

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DOB Violation Display for 091697LL6291202251

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date: 09/16/1997
Violation Type: LL6291 - LOCAL LAW 62/91 - BOILERS
Violation Number: 202251
ECB No.:
Infraction Codes:
Description:
Click here to view the Civil Penalty Chart.

Violation Category: V - DOB VIOLATION - ACTIVE
Device No.: 00034953 - 01-COMMERCIAL

Disposition:
Code: **Date:**
Inspector:
Comments:

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DOB Violation Display for 091697LL6291202252

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date:	09/16/1997	**Violation Category:**	V - DOB VIOLATION - ACTIVE
Violation Type:	LL6291 - LOCAL LAW 62/91 - BOILERS		
Violation Number:	202252	**Device No.:**	00034953 - 02-COMMERCIAL
ECB No.:			
Infraction Codes:			
Description:			

Click here to view the Civil Penalty Chart.

Disposition:
Code: **Date:**
Inspector:
Comments:

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DOB Violation Display for 091697LL6291202253

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date:	09/16/1997	**Violation Category:**	V - DOB VIOLATION - ACTIVE
Violation Type:	LL6291 - LOCAL LAW 62/91 - BOILERS		
Violation Number:	202253	**Device No.:**	00034953 - 03-COMMERCIAL
ECB No.:			
Infraction Codes:			
Description:			

Click here to view the Civil Penalty Chart.

Disposition:
Code: **Date:**
Inspector:
Comments:

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DOB Violation Display for 050498LL629111577

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date: 05/04/1998
Violation Type: LL6291 - LOCAL LAW 62/91 - BOILERS
Violation Number: 11577
ECB No.:
Infraction Codes:
Description:
Click here to view the Civil Penalty Chart.

Violation Category: V - DOB VIOLATION - ACTIVE
Device No.: 00034953 - 01-COMMERCIAL

Disposition:
Code: **Date:**
Inspector:
Comments:

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DOB Violation Display for 102389B32003837Y

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date: 10/23/1989
Violation Category: VP - VIOLATION UNSERVED ECB-ACTIVE
Violation Type: B - BOILER
Violation Number: 32003837Y
Device No.:
ECB No.:
infraction Codes:
Description: 36
Click here to view the Civil Penalty Chart.

Disposition:
Code: **Date:**
Inspector:
Comments:

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DOB Violation Display for 031699LL629110479

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date: 03/16/1999
Violation Type: LL6291 - LOCAL LAW 62/91 - BOILERS
Violation Number: 10479
ECB No.:
Infraction Codes:
Description:
Click here to view the Civil Penalty Chart.

Violation Category: V - DOB VIOLATION - ACTIVE
Device No.: 00034953 - 01-COMMERCIAL

Disposition:
Code: **Date:**
Inspector:
Comments:

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DOB Violation Display for 020700LL629110623

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date: 02/07/2000
Violation Type: LL6291 - LOCAL LAW 62/91 - BOILERS
Violation Number: 10623
ECB No.:
Infraction Codes:
Description:
Click here to view the Civil Penalty Chart.

Violation Category: V - DOB VIOLATION - ACTIVE
Device No.: 00034953 - 03-COMMERCIAL

Disposition:
Code: **Date:**
Inspector:
Comments:

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DOB Violation Display for 020700LL629110624

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date: 02/07/2000
Violation Type: LL6291 - LOCAL LAW 62/91 - BOILERS
Violation Number: 10624
ECB No.:
Infraction Codes:
Description:
Click here to view the Civil Penalty Chart.

Violation Category: V - DOB VIOLATION - ACTIVE
Device No.: 00034953 - 01-COMMERCIAL

Disposition:
Code: **Date:**
Inspector:
Comments:

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DOB Violation Display for 020700LL629110625

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date: 02/07/2000
Violation Type: LL6291 - LOCAL LAW 62/91 - BOILERS
Violation Number: 10625
ECB No.:
Infraction Codes:
Description:
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Violation Category: V - DOB VIOLATION - ACTIVE
Device No.: 00034953 - 02-COMMERCIAL

Disposition:
Code: **Date:**
Inspector:
Comments:

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DOB Violation Display for 022701LL629110230

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date: 02/27/2001
Violation Type: LL6291 - LOCAL LAW 62/91 - BOILERS
Violation Number: 10230
ECB No.:
Infraction Codes:
Description:
Click here to view the Civil Penalty Chart.

Violation Category: V - DOB VIOLATION - ACTIVE
Device No.: 00034953 - 03-COMMERCIAL

Disposition:
Code: **Date:**
Inspector:
Comments:

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DOB Violation Display for 022701LL629110231

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date: 02/27/2001
Violation Type: LL6291 - LOCAL LAW 62/91 - BOILERS
Violation Number: 10231
ECB No.:
Infraction Codes:
Description:
Click here to view the Civil Penalty Chart.

Violation Category: V - DOB VIOLATION - ACTIVE
Device No.: 00034953 - 01-COMMERCIAL

Disposition:
Code: **Date:**
Inspector:
Comments:

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DOB Violation Display for 022701LL629110232

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date: 02/27/2001
Violation Type: LL6291 - LOCAL LAW 62/91 - BOILERS
Violation Number: 10232
ECB No.:
Infraction Codes:
Description:
Click here to view the Civil Penalty Chart.

Violation Category: V - DOB VIOLATION - ACTIVE
Device No.: 00034953 - 02-COMMERCIAL

Disposition:
Code: **Date:**
Inspector:
Comments:

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DOB Violation Display for 032602LL629111094

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date:	03/26/2002	**Violation Category:**	V - DOB VIOLATION - ACTIVE
Violation Type:	LL6291 - LOCAL LAW 62/91 - BOILERS		
Violation Number:	11094	**Device No.:**	00034953 - 03-COMMERCIAL
ECB No.:			
Infraction Codes:			
Description:			

Click here to view the Civil Penalty Chart.

Disposition:
Code: **Date:**
Inspector:
Comments:

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DOB Violation Display for 032602LL629111095

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date: 03/26/2002
Violation Type: LL6291 - LOCAL LAW 62/91 - BOILERS
Violation Number: 11095
ECB No.:
Infraction Codes:
Description:
Click here to view the Civil Penalty Chart.

Violation Category: V - DOB VIOLATION - ACTIVE
Device No.: 00034953 - 01-COMMERCIAL

Disposition:
Code: **Date:**
Inspector:
Comments:

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NYC Buildings

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DOB Violation Display for 032602LL629111096

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date: 03/26/2002
Violation Type: LL6291 - LOCAL LAW 62/91 - BOILERS
Violation Number: 11096
ECB No.:
Infraction Codes:
Description:
Click here to view the Civil Penalty Chart.

Violation Category: V - DOB VIOLATION - ACTIVE
Device No.: 00034953 - 02-COMMERCIAL

Disposition:
Code: **Date:**
Inspector:
Comments:

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DOB Violation Display for 031903LL629110069

Premises: 1660 BOONE AVENUE BRONX **BIN: 2010949 Block: 3015 Lot: 1**

Issue Date: 03/19/2003
Violation Type: LL6291 - LOCAL LAW 62/91 - BOILERS
Violation Number: 10069
ECB No.:
Infraction Codes:
Description:
Click here to view the Civil Penalty Chart.

Violation Category: V - DOB VIOLATION - ACTIVE
Device No.: 00034953 - 01-COMMERCIAL

Disposition:
Code: **Date:**
Inspector:
Comments:

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FIRE DEPARTMENT OF THE CITY OF NEW YORK
PUBLIC RECORDS UNIT / FIRE RECORDS SECTION
9 METRO-TECH
BROOKLYN, N.Y 11201-3857

RECORD SEARCH REQUEST

MAIL TO:
TEAM RESEARCH, INC.
188 MONTAGUE ST * SUITE 900
BROOKLYN, NY 11201

THE UNDERSIGNED REQUESTS THE FOLLOWING INFORMATION RE: PREMISES
1660 / 1674 BOONE AVENUE
AKA 1015 / 1021 EAST 173 STREET

COUNTY: BRONX

(X) 1. RECORD OF EXISTING FIRE DEPARTMENT VIOLATIONS
( ) 2. RECORD OF PERMIT FOR
( ) 3. OTHER

(THE CITY OF NEW YORK IS NOT BEING SUED. NOR IS THERE ANY INTENTION TO SUE.)

SIGNED: TEAM RESEARCH
DATE: 11/15/2018

GENTLEMEN: IN REPLY TO YOUR REQUEST CONCERNING THE PREMISES MENTIONED ABOVE, PLEASE BE ADVISED THAT AS OF 9 A.M., NOV 15 2018 THE RECORDS SHOW THE FOLLOWING;

NO VIOLATIONS

VIOLATIONS RECORDED ABOVE ARE ONLY THOSE WHICH ARE A MATTER OF RECORD IN THE HEADQUARTERS OF THE BUREAU OF FIRE PREVENTION, AND MAY NOT INCLUDE VIOLATIONS ISSUED BY LOCAL UNITS.

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WEB: WWW.TEAM-RESEARCH.COM
E-MAIL: TEAM.RESEARCH@VERIZON.NET

DATE: 11/15/2018 TITLE NUMBER: SL-002392

TN: 523483 COMPANY: SUTTON LAND SERVICES

COUNTY: BRONX BLOCK: 3015 LOT: 1

PREMISES: 1660 / 1674 BOONE AVENUE
AKA 1015 / 1021 EAST 173 STREET

STREET REPORT

A SEARCH OF THE TOPOGRAPHICAL BUREAU REVEALS THE FOLLOWING RESULTS:

STREET WIDTH

BOONE AVENUE 60' TITLE VESTED 9/23/1895

CROSS STREETS

EAST 173 STREET 60' TITLE VESTED 8/27/1895

WEST FARMS ROAD IRREGULAR WIDTH TITLE VESTED 9/1/1896

EAST 174 STREET 80' TITLE VESTED 3/16/1896

THIS REPORT IS SUBMITTED FOR INFORMATION PURPOSES ONLY AND FOR THE EXCLUSIVE USE OF SUTTON LAND SERVICES

TEAM RESEARCH DOES HEREBY CERTIFY THAT THE RECORDS OF THE ABOVE GOVERNMENTAL AGENCIES WERE EXAMINED. THE INFORMATION REPORTED ABOVE IS A TRUE AND ACCURATE ABSTRACT OF THE INFORMATION CONTAINED HEREIN, AND NO LIABILITY IS ASSUMED.

UNITED STATES PATRIOT NAME SEARCH

Date: November 29, 2018 **Title No.:** SL-002392

NAME OF INDIVIDUAL, CORPORATION OR BUSINESS

Barone Management

This information is as of November 29, 2018

WE HAVE SEARCHED THE SPECIALLY DESIGNATED NATIONALS AND BLOCKED PERSONS LIST, MAINTAINED BY THE OFFICE OF FOREIGN ASSETS CONTROL OF THE U.S DEPARTMENT OF TREASURY, AND REPORT THE FOLLOWING FINDINGS WITH RESPECT TO THE PERSON OR ENTITY LISTED ABOVE:

☒ **There is no record found for the above mentioned individual, corporation or business.**

☐ **A record was found for the above mentioned individual, corporation or business.**

IMPORTANT NOTICE ABOUT THE ABOVE SEARCH INFORMATION

The Special Designated Nationals (SDN) List is frequently updated. There is no predetermined timetable, but rather names are added and removed as necessary and appropriate.

Sutton Land Title Agency does hereby certify that the records of the above Governmental agency were examined and that the information recorded above is a true and accurate abstract of the information contained therein.

This report is submitted for information purposes only. Liability is limited to errors and omissions of information properly indexed, filed and recorded with the above governmental agency. The liability under this search will not exceed $1,000 and shall be confined to the applicant for whom the search was made.

UNITED STATES PATRIOT NAME SEARCH

Date: November 29, 2018 **Title No.:** SL-002392

NAME OF INDIVIDUAL, CORPORATION OR BUSINESS

Russa Realty Corp.

This information is as of November 29, 2018

WE HAVE SEARCHED THE SPECIALLY DESIGNATED NATIONALS AND BLOCKED PERSONS LIST, MAINTAINED BY THE OFFICE OF FOREIGN ASSETS CONTROL OF THE U.S DEPARTMENT OF TREASURY, AND REPORT THE FOLLOWING FINDINGS WITH RESPECT TO THE PERSON OR ENTITY LISTED ABOVE:

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BANKRUPTCY SEARCH

Date: November 27, 2018 **Title No.:** SL-002392

NAME OF INDIVIDUAL, CORPORATION OR BUSINESS

Barone Management and Barone Management, LLC

This information is as of November 27, 2018

LAST KNOWN ADDRESS:

COUNTY: Bronx

SOCIAL SECURITY OR FEDERAL IDENTIFICATION NO.:

A search of the records of the United States Bankruptcy Court, for the above County, has been made with the following results:

Kings, Queens, Richmond, Nassau, Suffolk – The Eastern District of New York
New York, Bronx, Rockland – The Southern District of New York

☒ There is no record of a bankruptcy filing for the above referenced individual, corporation or business.

☐ See attached for active and/or recently closed cases found on file.

☐ Due to multiple listings and/or variations of the above referenced name a Social Security or EIN No. is required.

IMPORTANT NOTICE ABOUT THE ABOVE SEARCH INFORMATION

Sutton Land Title Agency does hereby certify that the records of the above Governmental agency were examined and that the information recorded above is a true and accurate abstract of the information contained therein.

This report is submitted for information purposes only. Liability is limited to errors and omissions of information properly indexed, filed and recorded with the above governmental agency. The liabilities under this search not exceed $1,000 and shall be confined to the applicant for whom the search was made. This search does not include filings other than the microfiche or index Sections of the United States Bankruptcy Clerk's Office.

BANKRUPTCY SEARCH

Date: November 27, 2018 **Title No.:** SL-002392

NAME OF INDIVIDUAL, CORPORATION OR BUSINESS

Russa Realty Corp. and Russa Realty Corporation

This information is as of November 27, 2018

LAST KNOWN ADDRESS: 1660-1670 Boone Avenue, Bronx, NY 10460

COUNTY: Bronx

SOCIAL SECURITY OR FEDERAL IDENTIFICATION NO.:

A search of the records of the United States Bankruptcy Court, for the above County, has been made with the following results:

Kings, Queens, Richmond, Nassau, Suffolk – The Eastern District of New York
New York, Bronx, Rockland – The Southern District of New York

☒ There is no record of a bankruptcy filing for the above referenced individual, corporation or business.

☐ See attached for active and/or recently closed cases found on file.

☐ Due to multiple listings and/or variations of the above referenced name a Social Security or EIN No. is required.

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