2840 ATLANTIC AVENUE SITE
BCP SITE NO. C224255
2840 ATLANTIC AVENUE
BROOKLYN, NEW YORK
Block 3964 Lot 8

INTERIM REMEDIAL MEASURE WORK PLAN (Building Demolition))

August 2019

Prepared for:

Empire Dairy LLC
3611 14th Avenue, Suite 400
Brooklyn, NY 11218

AMC Engineering, PLLC
18-36 42nd Street,
Astoria, NY 11105
(516) 545-0474

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CERTIFICATION PAGE

I Ariel Czemerinski certify that I am currently a NYS registered professional engineer and that this Interim Remedial Measure Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

9/25/2019

1.0 INTRODUCTION

This Work Plan was prepared on behalf of Empire State Dairy LLC for the property known as the Former Mugler Shoring Inc. Site, located at located at 2840 Atlantic Avenue, Brooklyn, New York. An application for acceptance into the New York State Brownfield Cleanup Program (BCP) was previously submitted to the New York State by the former property owner 2840 Atlantic Holdings LLC. On January 22, 2018, the New York State Department of Environmental Conservation (DEC) informed 2840 Atlantic Holdings that one of the three lots (Lot 8) was eligible for the BCP. The Brownfield Cleanup Agreement (BCA) was executed by the DEC on April 16, 2018. Supplemental testing was performed on the remaining lots (former Lots 4, 23) which were subsequently added to the BCA. HP Brooklyn Dairy Housing Development Fund Company, Inc. (Owner) and Empire State Dairy LLC (Owner affiliate) were added to the BCA on January 31, 2019.

This Work Plan addresses the removal of a 10,000 gallon aboveground fuel oil storage tank and boilers and other equipment from the cellar level of the landmarked building. It also includes the demolition of a 1- story building and a 3-story building located south of the landmarked building.

This work will facilitate remediation of the Site through the removal of machinery and fuel oil storage equipment in the landmarked building and allow the future excavation of contaminated soil below the remainder of the site under a comprehensive remedial plan to be submitted under separate cover.

1.1 SITE LOCATION AND DESCRIPTION

The street address for the Site is 2840 Atlantic Avenue, Brooklyn, NY (**Figure 1**). The Site is located in the City of New York in the Highland park neighborhood of the Borough of Brooklyn. The Site is comprised of a single tax parcel identified as Block 3964, Lot 8. Lot 8 is a recent merger of the three original lots which made up the Site including Lots 4, 8 and 23. The total area of the Site is 43,050 sq. ft (0.98 acres). The Site has approximately 200 ft of street frontage on Atlantic Avenue, 200 feet of street frontage on Barbey Street and 240 ft of frontage on Shchenck Avenue (**Figure 2**). The property is developed with two 3-story commercial buildings and a single 1-story building which were constructed in 1914. The 3-story building facing Atlantic street was assigned landmark status by the City. This building also has a full cellar level. The 1-story building and 3-story building located to the south have a slab on grade foundation. A 12,000 sf parking lot is located south of the buildings. The buildings and parking lot are currently vacant.

The elevation of the Site ranges from 41 to 44 feet above the National Geodetic Vertical Datum (NGVD). The area topography gradually slopes to the south. The depth to groundwater beneath the Site is approximately 38 feet below grade. Based on regional groundwater elevation maps, groundwater flows to the southeast toward Jamaica Bay.

The area surrounding the property is highly urbanized. Properties in the immediate area around the Site are generally industrial / commercial interspersed with residential homes. Mixed-use commercial / residential properties line Atlantic Avenue and include first floor retail / automotive repair / service shops with residential units or office space on the upper floors.

Residential single and multi-family homes comprise much of the cross streets north and south of the Atlantic Avenue business corridor. Adjacent land use includes auto repair shops, residential homes and manufacturing buildings to the west, auto repair shops, iron/steel works, houses of worship and mixed-use properties to the south, residential homes and a gas station to the east and mixed-use commercial / residential properties to the north.

1.2 SITE HISTORY

Prior to 1908, the property was developed with a lumber yard, retail stores and dwellings back to 1887. The main building was constructed in approximately 1908 and expanded to the current extents by 1914/1915. The property was utilized as a dairy and food products manufacturing facility from the time of construction until the mid to late 1970s. From the 1980s to 2016, the site was utilized primarily as a plastics and floor tile products manufacturing facility.

1.3 GEOLOGY / HYDROGEOLOGY

The geologic setting of Long Island is well documented and consists of crystalline bedrock overlain by layers of unconsolidated deposits. According to geologic maps of the area created by the United States Geologic Survey (USGS), the bedrock in this area of Brooklyn is an igneous intrusive classified as the Ravenswood grano-diorite of middle Ordovician to middle Cambrian age. The depth to bedrock in this area of Brooklyn is greater than 100 ft below grade. Unconsolidated sediments overlie the bedrock and consist of Pleistocene aged sand, gravel and silty clays, deposited by glacial-fluvial activity. Non-native fill materials consisting of dredge spoils, rubble and / or other materials have historically been used to reinforce and extend shoreline areas and to raise and improve the drainage of low lying areas.

Soil at the site is described as historic fill materials to a depth of approximately 4 to 5 feet below the surface followed by native brown fine to course sand. According to the USGS topographic map for the area (Brooklyn Quadrangle), the elevation of the property ranges from 41 to 44 feet above the National Geodetic Vertical Datum (NGVD). The area topography gradually slopes to the south.

Groundwater at the Site is present under water table conditions at a depth of approximately 38 feet below grade. Based on regional water table elevation maps, groundwater flow is expected to be southwest.

1.4 PREVIOUS ENVIRONMENTAL INVESTIGATION FINDINGS

In June 2016, Environmental Building Solutions performed a limited subsurface investigation at the Site. The investigation included a geophysical survey to locate underground storage tanks, 11 soil borings and the collection and analysis of 10 soil, 2 groundwater, 2 subslab vapor and 1 indoor air samples.

The results of the investigation identified two underground storage tanks (USTs) including a 5,000 gallon fuel oil UST within the Barbey Street loading dock (later estimated to be 20,000 gallons) and smaller, possibly 550 gallon tank, located in the parking area near Schenck Street. A 10,000 fuel oil aboveground tank is also present in the cellar beneath the landmarked building.

Petroleum contamination in soil was identified around the 5,000 gallon tank. Groundwater did not appear to be affected. Several metals were also reported above unresticted SCOs. Soil vapor results indicated that trichloroethene (TCE) was present in one of the samples at elevated levels though it was not detected in indoor air. The 20,000 gallon tank was later emptied and listed as temporarily closed.

EBC performed a supplemental subsurface investigation in February 2018 to evaluate soil quality within the parking lot area (former lots 4 and 23) and other areas of the Site including beneath the landmarked building cellar. Attempts were also made to delineate the previously identified petroleum contamination in the vicinity of the 20,000 gallon UST and to determine if groundwater was impacted.

This work included the installation of seventeen soil borings and one groundwater monitoring well. Of these, five borings were located on Lots 4 and 23. The results of this limited investigation identified elevated levels of metals (mercury and lead) above Restricted-Use Residential SCOs. Arsenic was also reported above Restricted-Use Commercial SCOs.

In addition to the metals, several SVOCs were also detected above Restricted-Use Residential and Restricted-Use Commercial SCOs at several locations. One location had odors and SVOC levels high enough to suggest a potential source of contamination. PCBs were also reported above Restricted-Use Commercial SCOs on Lot 23 with a concentration of 2,200 ug/kg. Low but elevated levels of benzene, napthalene and some SVOC parameters were reported in the groundwater sample.

1.5 REDEVELOPMENT PLANS

The proposed project consists of the adaptive reuse of the landmarked Empire State Dairy buildings along Atlantic Avenue and an adjacent new 14-story building to the south, with a cellar and bulkheads. The old and new structures will be connected on the cellar through 4th floors. The project has 335 affordable apartments and 29,500 sf of ground floor retail space, 2 loading docks and a 5,500 sf community facility. The total floor area of the project is approximately 337,536 gross square feet, including the cellar. Two amenity roof terraces for tenant use are on the second floor, with adjacent indoor amenity areas.

Plans include a full height cellar level requiring excavation to a depth of approximately 13 ft below grade. The cellar level will be used for parking and meter / utility rooms. With groundwater present at 38 feet below grade, dewatering will not be required during construction of the building's foundation.

2.0 INTERIM REMEDIAL MEASURES

The work proposed for the Site consists of the removal of boilers and other industrial equipment along with a 10,000 gallon aboveground fuel oil tank in the cellar of the landmarked building. Also included in this scope is the demolition and removal of a 1-story steel frame building and a 3-story masonry building located on the middle portion of the Site. These tasks will facilitate comprehensive site remediation pursuant to a Remedial Action Work Plan (RAWP).

2.1 OBJECTIVES

The objective of the IRM work Plan is to properly remove the industrial equipment and fuel oil tank from the landmarked building in preparation for renovation and to prepare the remainder of the site for the excavation and removal of fill materials at the Site.

2.2 INDUSTIAL EQUIPMENT AND AST REMOVAL

The cellar level of the landmarked building contains industrial boilers believed to have been used in the pasteurization process associated with the former dairy. There are also compressors, pumps and other equipment which must be removed.

The removal of the industrial equipment will be performed by the demolition contractor in accordance with all applicable OSHA requirements. Equipment and / or piping containing oils or other liquids will be drained and containerized for classification and proper off-site disposal using a licensed waste liquid disposal company. Asbestos present in boilers or other equipment will be removed first by a licensed asbestos removal company following standard asbestos removal procedures, before the boilers are dismantled and removed as scrap. An ACP21 - Asbestos Project Completion Form, will be filed with the NYC Department of Buildings documenting that the asbestos removal was completed.

Aboveground fuel oil storage tank removal methods.

The AST will be removed in accordance with the applicable procedures described under the NYSDEC Memorandum for the Permanent Abandonment of Petroleum Storage Tanks and Section 5.5 of DER-10 (May 2010) as follows:

- Remove all product to its lowest draw-off point
- Drain and flush piping into the tank
- Vacuum out the tank bottom consisting of water product and sludge
- Remove the fill tube and disconnect the fill, gauge, product and vent lines and pumps. Cap and plug open ends of lines
- Temporarily plug all tank openings, complete the excavation, remove the tank and place it in a secure location
- Render the tank safe and check the tank atmosphere to ensure that petroleum vapors have been satisfactorily purged from the tank
- Clean tank
- After cleaning the tank must be made acceptable for disposal at a scrap yard cleaning the tank interior with a high pressure rinse and cutting the tank in several pieces.

During the tank and pipe line removal the following field observations should be made and recorded:

- A description and photographic documentation of the tank and pipe line condition (pitting, holes, staining, leak points, evidence of repairs, etc.)
- Examination of the floor below the tank for physical evidence of contamination (odor, staining, sheen, etc.)

2.3 1-STORY and 3-STORY BUILDING REMOVAL

Asbestos containing materials including roofing, floor tiles etc. will be properly removed and certified in accordance with NYC DOB requirements before any demolition begins.

The 1-story metal framed building and 3-story masonry building will be demolished and removed in accordance with the approved NYC Department of Buildings demolition plans (see **Attachment A**)

As specified in the plans, demolition will begin with the 1-story metal building and then proceed to the 3-story building. The work will be completed using a bobcat for debris removal and truck locating, a hydraulic excavator for structural removal and truck loading and a crane for steel removal.

The DOB approved plans include specifications for structural stability inspections, fire prevention, debris removal, rodent control and dust suppression.

Concrete demolition material generated on the Site from the building floors and other structures will be segregated, sized and shipped to a concrete recycling facility. Concrete crushing or processing on-Site is prohibited.

Metal beams, piping, industrial equipment and the cleaned AST will either be salvaged or taken to a local scrap metal facility.

Bricks and other C&D material will be sent to a C&D landfill or other C&D processing facility.

A bill of lading system or equivalent will be used for the disposal of C&D, concrete, scrap metal and related materials. Documentation for materials disposed of at recycling facilities (such as metal, concrete, asphalt) and / or disposed of as non-regulated C&D, will include transport tickets for each load stating the origin of the material, the destination of the material and the quantity transported. Field oversight and CAMP monitoring will be performed during building demolition. This information will be reported in the Final Engineering Report.

Note that no soil disturbance will be performed as part of the building demolition and that the concrete slab and asphalt parking area cover will remain in place. Should any soil disturbance be undertaken, the DEC Project Manager will be notified.

2.4 SITE PREPARATION

2.4.1 Work Hours

The hours for operation for demolition activity will conform to the NYCDOB construction code requirements or according to specific variances issued by that agency. DEC will be notified by the Volunteer of any variances issued by the NYCDOB. Typical Work hours are 7 am to 6 pm, Monday through Friday

2.4.2 Site Security

The lot currently has an 8 ft high chain link fence and gate along the parking lot facing Schenck Avenue and Barbey Street. An 8 foot high plywood construction fence will be installed along the Schenck and Barbey sidewalks in accordance with the NYCDOB demolition permit The north side of the property is bordered by the landmarked building which has a sidewalk shed installed along atlantic Avenue. The south of the property borders an adjacent building. The fences and gates will be maintained during the demolition activity and properly secured at the end of the day.

2.4.3 Emergency Contact Information

An emergency contact sheet with names and phone numbers is included in **Table 1**. The table identifies specific project contacts for use by NYSDEC, NYSDOH or the public in the case of a day or night emergency.

2.4.4 Health & Safety Plan (HASP)

The HASP takes into account the specific hazards inherent to the site and presents the minimum requirements which are to be met by the excavation subcontractor, and other on-site personnel in order to avoid and, if necessary, protect against health and/or safety hazards.

The demolition contractor use their own HASP and will be fully responsible for complying with all OSHA safety regulations, NYSDOL laws and all NYCDOB requirements as specified in the approved plans.

2.4.5 Community Air Monitoring Plan (CAMP)

The CAMP provides measures for protection for on-site workers and the downwind community (i.e., off-site receptors including residences, businesses, and on-site workers not directly involved in the remedial work) from potential airborne contaminant releases resulting from remedial activities. CAMP monitoring will be performed during building demolition activities.

The action levels specified require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that the remedial work did not spread contamination off-site through the air. The primary concerns for this site are vapors, nuisance odors and dust particulates if soil disturbance activity takes place. Since no soil

disturbance is planned under this IRM, a CAMP was prepared as a contigency in the event that soil disturbance is neccesary and is provided in **Attachment B**.

No soil disturbance will be performed as part of the building demolition or during removal of the AST, boilers and other machinery in the landmarked building cellar. However, should any soil disturbance activity be necessary, the DEC Project Manager will be notified.

2.4.6 Utility Mark-outs, Easements and Permits

The Demolition Contractor and its sub-contractors are solely responsible for the identification of utilities that might be affected by work under the demolition plan and implementation of all required, appropriate, or necessary health and safety measures during performance of work under this Plan. The Demolition Contractor and its sub-contractors are solely responsible for safe execution of all invasive and other work performed under this Work Plan. The Demolition Contractor and its sub-contractors must obtain any local, State or Federal permits or approvals pertinent to such work that may be required to perform work under the Plan including but not limited to NYC Department of Buildings work permits. Approval of this Plan by NYSDEC does not constitute satisfaction of these requirements.The presence of utilities and easements on the Site will be investigated by the Contractor and it must be determined that no risk or impediment to the planned work under the Plan is posed by utilities or easements on the Site.

2.4.7 Equipment and Material Staging

Equipment and materials used for the demolition work will be staged on Site within the fenced perimeter.

2.4.8 Dust Control Plan

A dust suppression plan that addresses dust management during building demolition work will include, at a minimum, the items listed below:

- Adequate wetting will be employed before and during the demolition of any section or wall of the structure.
- Debris shall be transported through dust-tight chutes or in buckets and shall not be thrown or dropped from any floor. Debris in chutes or buckets will be adequately wettedto prevent dust dispersion at the point of discharge.
- Dust producing operations shall be wetted down to the amount necessary to control the dust. A NYCDEP permit will be required if water from a hydrant will be used.
- Dust and debris from the demolition opertions will be removed daily from the adjacent streets, sidewalks and alleys. An inspection shall be madse daily on all floors.

Refer to the NYCDOB approved demolition plan (**Attachment A**) for further details.

3.0 SCHEDULE

The Work is anticipated to begin approximately 2 weeks following NYSDEC approval of the Work Plan. The estimated duration of the demolition and debris removal is 6 to 8 weeks.

3.1 Notification

In accordance with the requirements of the BCP, a change in use form was filed with DEC's Site Control Unit on July 29, 2019.

4.0 REPORTING

4.1.1 Monthly Reports

Daily reports will be submitted to NYSDEC and NYSDOH Project Managers by the end of each day in which remedial activity takes place. Daily reports will include:

- An update of progress made during the reporting day;
- A summary of any and all complaints with relevant details (names, phone numbers);
- A summary of CAMP finding, including excursions;
- An explanation of notable Site conditions.

Daily reports are not intended to be the mode of communication for notification to the NYSDEC of emergencies (accident, spill), requests for changes to the RAWP or other sensitive or time critical information. However, such conditions must also be included in the daily reports. Emergency conditions and changes to the RAWP will be addressed directly to NYSDEC Project Manager via personal communication.

These reports will include a summary of air sampling results, odor and dust problems and corrective actions, and all complaints received from the public.

4.1.1 Monthly Reports

Monthly reports will be submitted to NYSDEC and NYSDOH Project Managers within 10 days following the end of the month of the reporting period and will include:

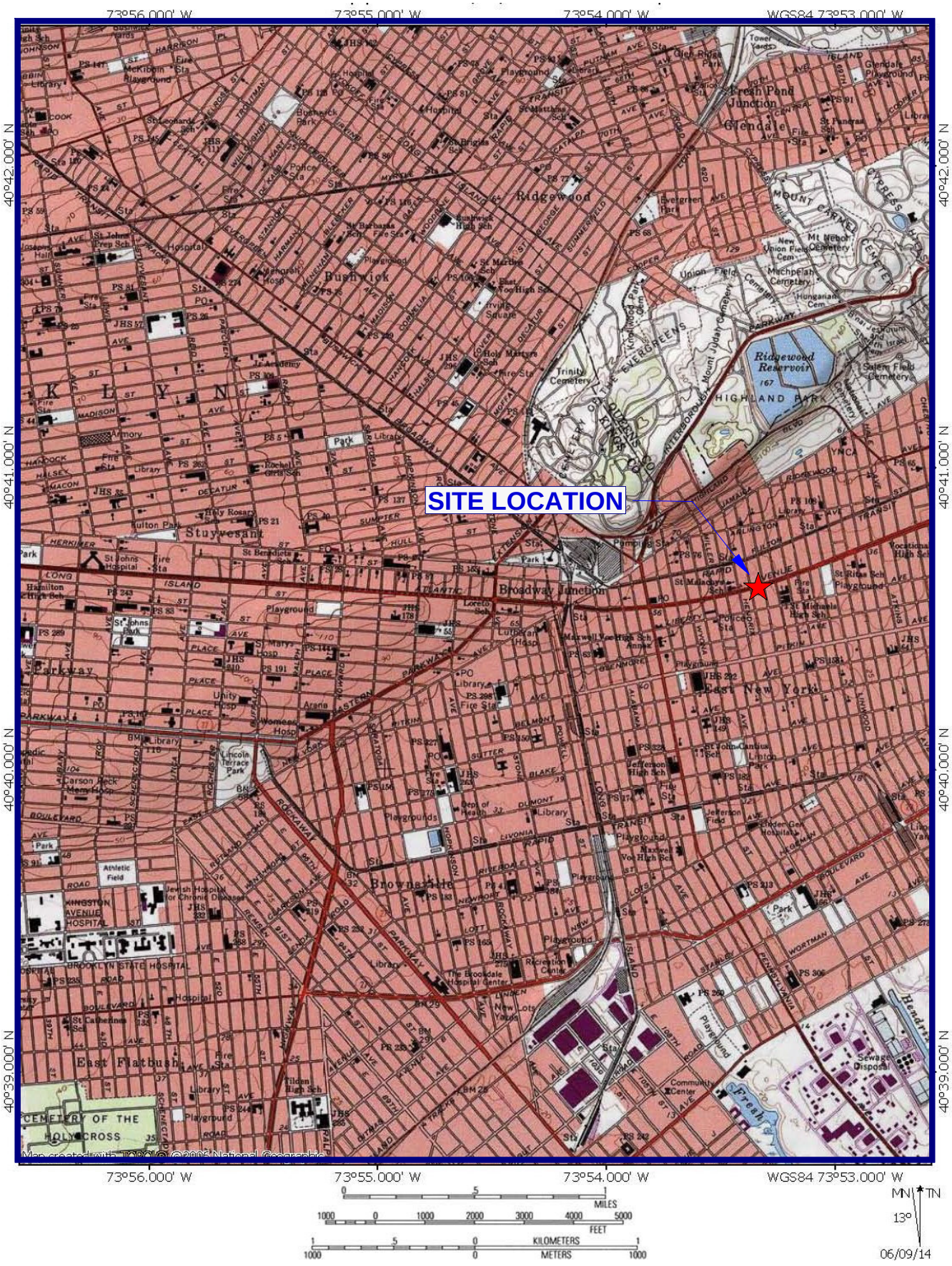
- Activities relative to the Site during the previous reporting period and those anticipated for the next reporting period, including a quantitative presentation of work performed (i.e. tons of material exported and imported, etc.);
- Description of approved activity modifications, including changes of work scope and/or schedule;
- Sampling results received following internal data review and validation, as applicable; and,
- An update of the remedial schedule including the percentage of project completion, unresolved delays encountered or anticipated that may affect the future schedule, and efforts made to mitigate such delays.

TABLES

Table 1
Emergency Contact List

General Emergencies		911
NYC Police		911
NYC Police 71st Precinct		(718) 735-0511
NYC Fire Department		911
NYC Fire Department Ganeral Number		(718) 999-2000
NYC DOB Brooklyn Borough Office		(718) 802-3635
NYCDOB Emergency Operations Center		(212) 570-4300
Interfaith Medical Center		(718) 613-4000
NYSDEC Spills Hotline		1-800-457-7362
NYSDEC Project Manager		(518) 402 - 9656
NYC Department of Health		(212) 676-2400
National Response Center		1-800-424-8802
Poison Control		1-800-222-1222
EBC Project Manager	Keith Butler	(631) 504-6000
EBC BCP Program Manager	Charles Sosik	(631) 504-6000
EBC Site Safety Officer	Tom Gallo	(631) 504-6000
Remedial Engineer	Ariel Czemerinski	(516) 987-1662

FIGURES

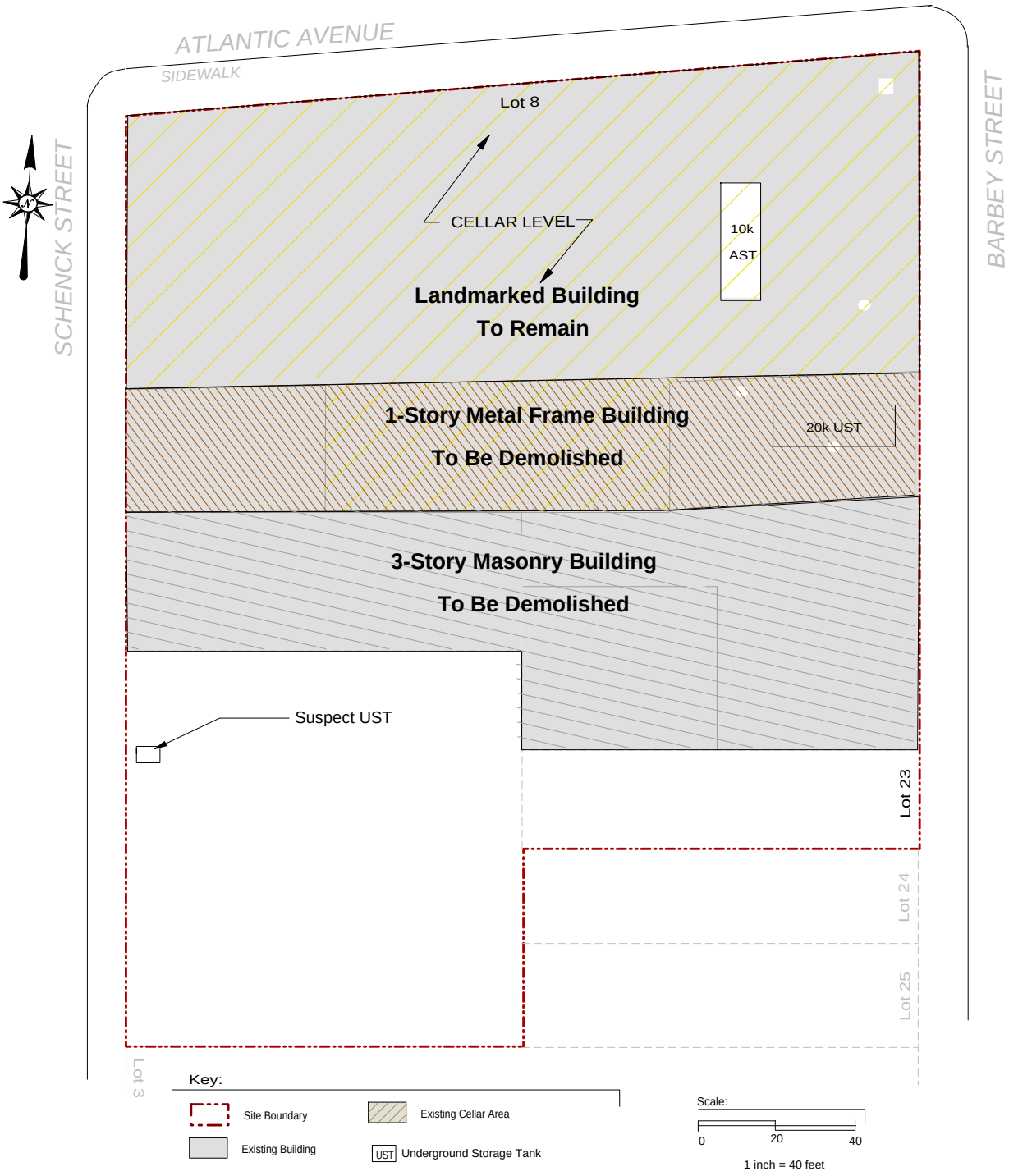


USGS South Amboy, NJ-NY Quadrangle 1995, Contour Interval = 10 feet

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS
Phone 631.504.6000
Fax 631. 924 .2870

2840 ATLANTIC AVENUE, BROOKLYN, NY

FIGURE 1 SITE LOCATION MAP



EBC
Environmental Business Consultants
1808 Middle Country Road. Ridge. NY 11961
Phone 631.504.6000
Fax 631.924.2780

FIGURE 2

Site Name: 2840 Atlantic Avenue

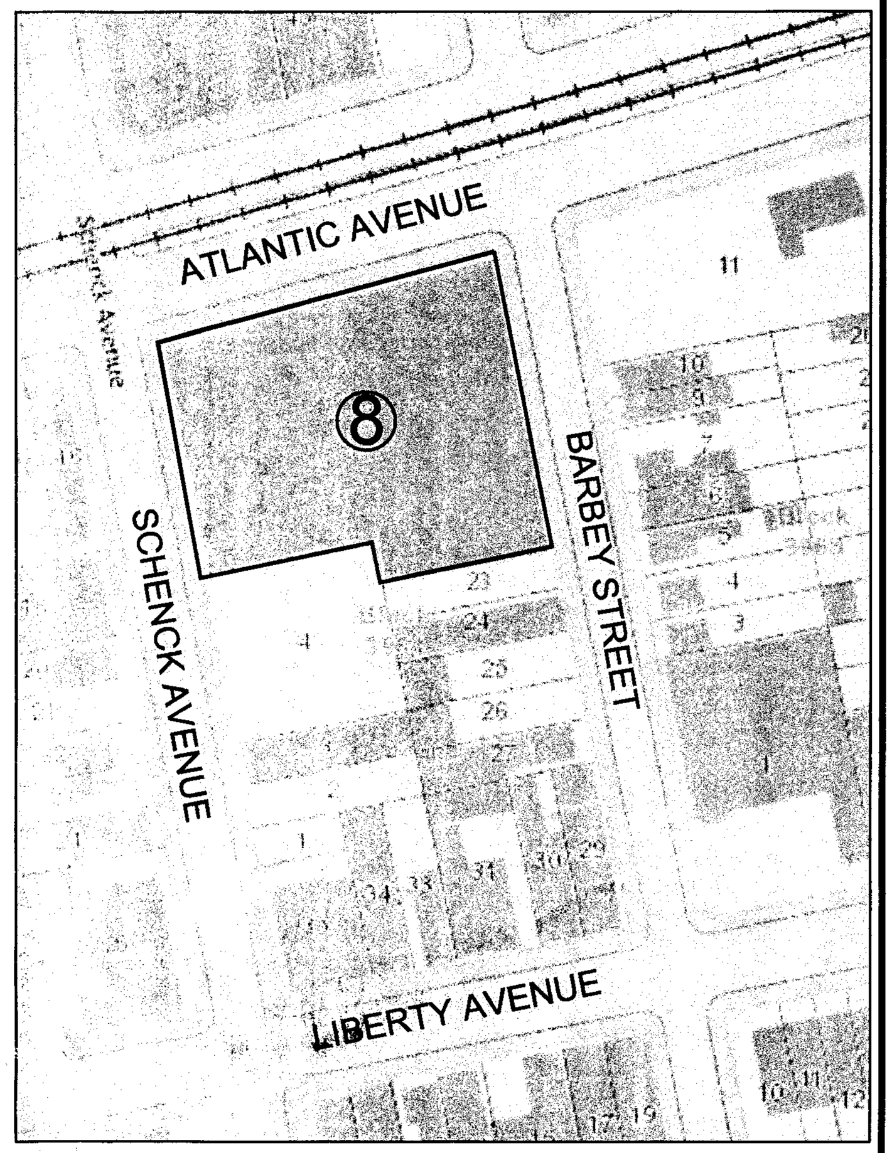
Site Address: 2840 Atlantic Avenue, Brooklyn NY

Drawing Title: Site Plan

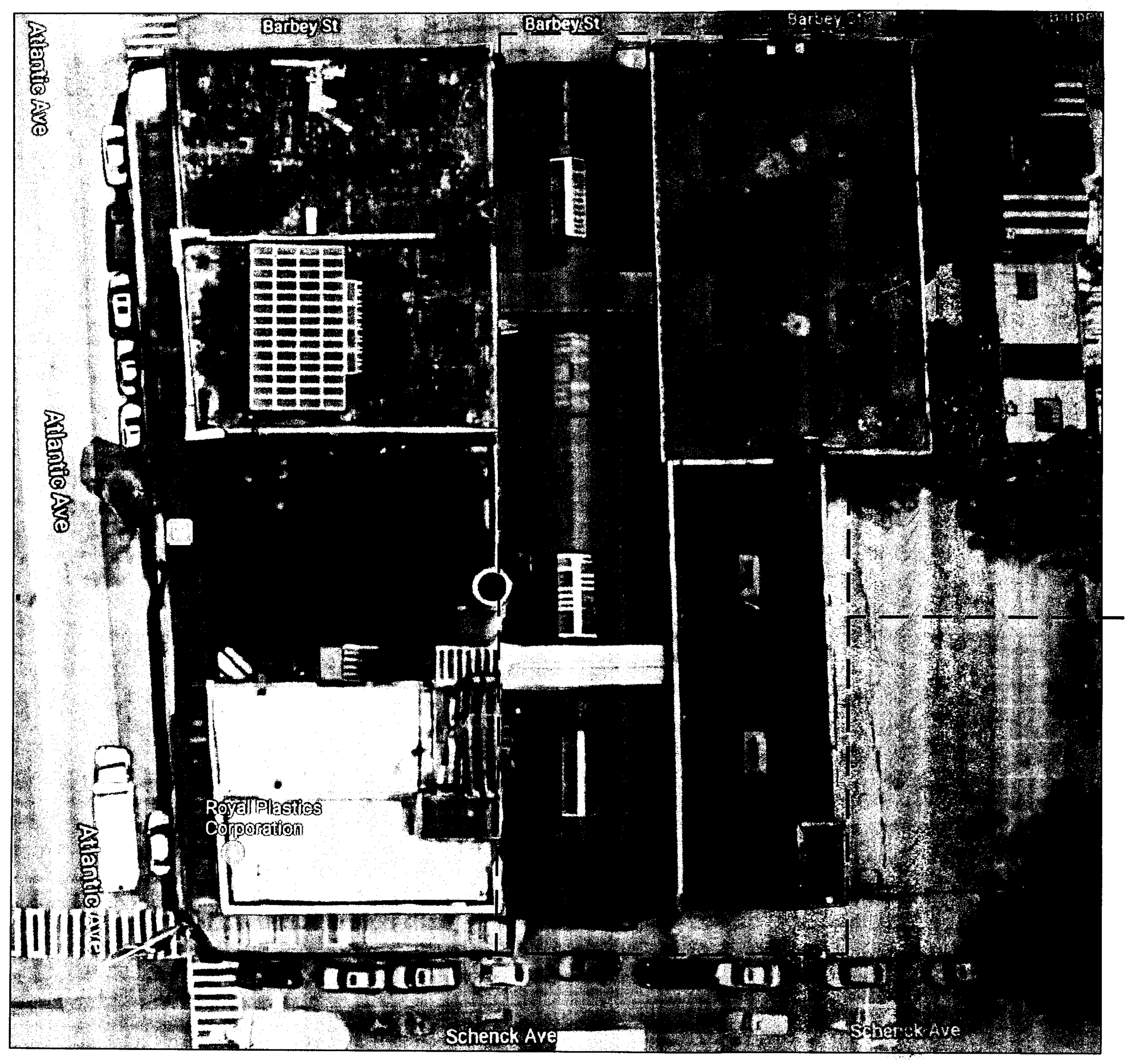
ATTACHMENT A
NYC Appoved Demolition Plans

FULL DEMOLITION 1 STORY STEEL FRAME BUILDING AND 3 STORY MASONRY BUILDING AT 266 BARBEY STREET, BROOKLYN NY, 11207
BIN#: 3327099

LIST OF DRAWINGS:

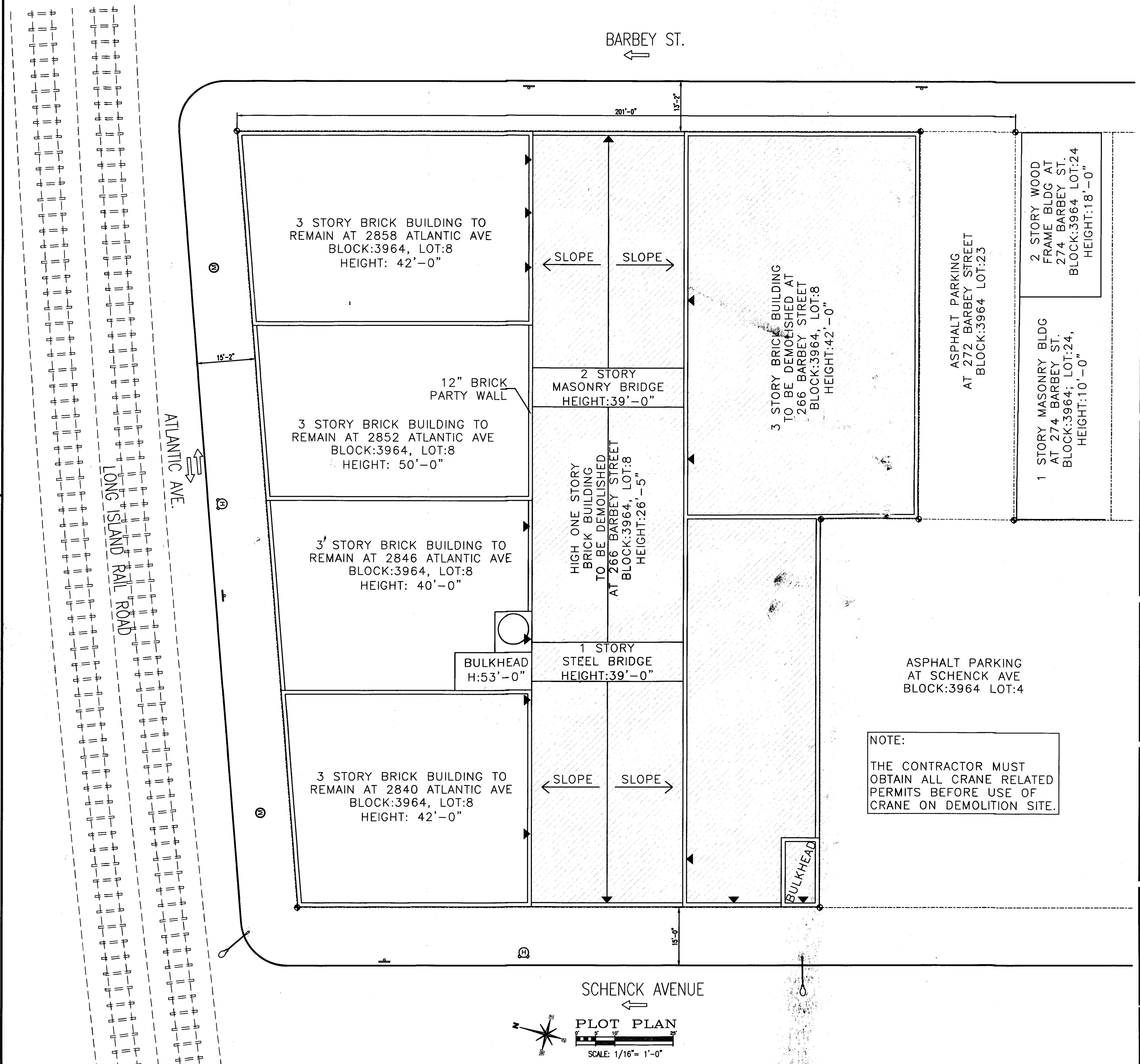


SITE PLAN



AREA OF WORK

TOP VIEW



PLOT PLAN

SCALE: 1/16" = 1'-0"

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS APPROVED DEMOLITION
APR 25 2019
NAWEED CHAUDHRI

ENGINEER

H+O ENGINEERING, DPC
44-02 11TH STREET, OFFICE 406
LONG ISLAND CITY, NY 11101
T: (347) 639-0669

PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

COVER SHEET

SEAL & SIGNATURE

STATE OF NEW YORK · LICENSED PROFESSIONAL ENGINEER

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-100.00

DEPT BLDGS Job No. 321836778
Scan Code ESHS7578657

GENERAL NOTES:

1. WORK OF DEMOLITION AND REMOVALS MUST CONFORM TO THE REQUIREMENT OF THE 2014 NEW YORK CITY BUILDING CODE CHAPTER 33 AND SECTIONS 3301 THRU 3310, FIRE DEPARTMENT REGULATIONS, TRANSIT AUTHORITY, ENVIRONMENTAL DEPARTMENT, UTILITY COMPANIES OR ANY OTHER AUTHORITY THAT MAY RESULT INVOLVED OR COMPROMISED IN THE WORK THAT WILL BE PERFORMED UNDER THE PRESENT SET OF DRAWINGS. THE WORK MUST ALSO CONFORM WITH ALL APPLICABLE FEDERAL AND STATE LAWS, CONTRACT DOCUMENTS AND THE BEST TRADE PRACTICES AS WELL AS ALL MEANS AND METHODS INDICATED ON THE PRESENT DOCUMENT.

2. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCING WORK, AND SHALL REPORT ANY DISCREPANCIES BETWEEN DRAWINGS, PROCEDURES AND FIELD CONDITIONS TO THE PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT WHICH SHALL BE NOTIFIED IN WRITING PRIOR TO COMMENCING WORK.

3. DEMOLITION OPERATIONS SHALL NOT COMMENCE UNTIL THE APPLICABLE SITE SAFEGUARDS, SIDEWALKS, STREETS AND ADJOINING PROPERTY PROTECTIONS ARE IN PLACE AS REQUIRED BY NEW YORK CITY BUILDING CODE SECTIONS 3303, 3306, 3307, 3308, AND 3309.

4. A SOLID FENCE 8' HIGH WILL ENCLOSE THE DEMOLITION SITE TO PROVIDE A SAFETY ZONE AREA THAT MEETS THE REQUIREMENT OF SECTION 3307.7 AND 3304.4.3 OF THE NYCBC.

5. ALL PROTECTION LIKE SHEDS BC 3307.6, FENCE 3307.7, ROOF PROTECTION OF ADJACENT PROPERTIES 3309.10, SCAFFOLDING BC 3314, ETC SHALL BE DESIGN AND FILED FOR APPROVAL TO THE DOB BY A LICENSED PROFESSIONAL. PROTECTIONS TO REMAIN IN PLACE UNTIL ALL OVERHEAD WORK IS COMPLETED.

6. ALL PIPE AND HANGING SCAFFOLDING IS TO BE SURROUNDED WITH VERTICAL PROTECTIVE NETTING AS REQUIRED UNDER ARTICLE 3308.1 OF THE 2014 NYC BUILDING CODE.

7. ANY COURTYARD AND TERRACES BELOW AREAS OF DEMOLITION TO BE PROTECTED AND BARRICADED TO PREVENT UNAUTHORIZED PERSONNEL TO ACCESS; OTHERWISE OVERHEAD PROTECTION IS TO BE UTILIZED. ALL OTHER ADJACENT PROPERTY PROTECTION IS TO BE PROVIDED AS PER ARTICLE BC 3309 OF THE 2014 NYC BUILDING CODE. THIS SHALL ALSO INCLUDE A CONTROLLED ACCESS GATE WHICH MUST BE MONITORED BY A FLAG PERSON WHEN WORK IS IN PROGRESS. SECTION 3303.3, 3307.4.4 AND 3307.5

8. NO PARTY WALL, BALCONY OR EXISTING FIRE EXIT SHALL BE DEMOLISHED, REMOVED OR OBSTRUCTED IN ANY MANNER THAT WOULD DESTROY THE FULL EFFECTIVENESS OF SUCH FIRE EXIT AS A MEANS OF EGRESS, UNLESS A SUBSTITUTE MEANS OF EGRESS MEETING THE REQUIREMENT OF NYCBC HAS BEEN PROVIDED (3303.9)

9. A HOT LINE NUMBER SHALL BE PROVIDED AT THE SITE FOR TELEPHONING THE DEPARTMENT OF BUILDING AND THE DEPARTMENT OF TRANSPORTATION WHEN IT IS NECESSARY TO CLOSE OFF A STREET FOR SAFETY PURPOSES. THIS INFORMATION IS TO BE DISPLAYED ON A SIGN REQUIRED UNDER SECTION 3301.9. ALL OTHER SIGNAGE AS REQUIRED BY OWNER OR D.O.B. SHALL BE PROVIDED.

10. CONTRACTOR SHOULD OBTAIN A PERMISSION TO ENTER ADJOINING PROPERTIES WHEN REQUIRED. A PRE DEMOLITION SURVEY OF EXISTING CONDITIONS SHOULD BE CONDUCTED.WRITTEN AND PHOTOGRAPHIC DOCUMENTATION MUST BE GENERATED PRIOR TO COMMENCEMENT OF ANY DEMOLITION OPERATIONS. ADJOINING PROPERTY OWNERS, PROFESSIONAL ENGINEER OR ARCHITECT INVOLVED IN THE PROJECT SHOULD BE NOTIFIED OF ANY UNSURROUNDED FIELD COULD OR ANY OTHER PARTICULAR SITUATION THAT COULD ARISE DURING DEMOLITION OPERATIONS. AS PER 3309.2

11. CONTRACTOR OR PERMIT HOLDER MUST NOTIFY THE DEPARTMENT OF BUILDINGS (BEST SQUAD) VIA PHONE OR ELECTRONICALLY, AT LEAST 24 HOURS, BUT NO MORE THAN 48 HOURS AT (212-393-2550) PRIOR TO COMMENCEMENT OF ANY WORK AS PER NYCBC. 3306.3.1.

12. WHERE A CONSTRUCTION OR DEMOLITION PROJECT WILL REQUIRE ACCESS TO ADJOINING PROPERTY, WRITTEN NOTIFICATION SHALL BE PROVIDED TO THE ADJOINING PROPERTY OWNER AT LEAST 60 CALENDAR DAYS PRIOR TO THE COMMENCEMENT OF WORK. SUCH NOTIFICATION SHALL DESCRIBE THE NATURE OF THE WORK, ESTIMATED SCHEDULE AND DURATION, DETAILS OF INSPECTIONS OF MONITORING TO BE PERFORMED ON THE ADJOINING PROPERTY, PROTECTION TO BE INSTALLED ON THE ADJOINING PROPERTY, AND CONTACT INFORMATION FOR THE PROJECT. WHERE NO RESPONSE IS RECEIVED, A SECOND WRITTEN NOTIFICATION SHALL BE MADE NO MORE THAN 45 DAYS, AND NOT LESS THAN 30 CALENDAR DAYS, PRIOR TO THE COMMENCEMENT OF THE WORK. AS PER NYCBC. 3309.1.1.

13. THE APPROVED SET OF DEMOLITION DOCUMENTS SHALL BE KEPT AT THE SITE AT ALL TIMES AND BE ACCESSIBLE FOR INSPECTION AS PER NYCBC 3306.5.2

14. AS PER N.Y.C.B.C. SECTION 3306.6 AND 1704.20.4, SPECIAL INSPECTOR AGENCY PERFORM THREE INSPECTIONS: BEFORE DEMOLITION OPERATIONS START, DURING DEMOLITION AND AT THE CONCLUSION OF DEMOLITION, PERMIT HOLDER OR CONTRACTOR ARE RESPONSIBLE TO NOTIFY ENGINEER OF RECORD 2 DAYS IN ADVANCE OF COMMENCEMENT OF DEMO OPERATIONS..

15. SERVICE UTILITY CONNECTIONS SHALL BE DISCONTINUED AND CAPPED, AND CERTIFICATIONS TO THAT EFFECT ISSUED BY THE REPRESENTATIVE OF THE UTILITY COMPANY SHALL BE FILED WITH THE DEPARTMENT. (3303.2.5)

16. FIRE EXTINGUISHERS SHALL BE PROVIDED IN ACCORDANCE WITH THE NEW YORK CITY FIRE CODE, 3303.7.2

17. ANY STRUCTURAL MEMBER THAT IS BEING DISMEMBERED SHALL NOT SUPPORT ANY LOAD OTHER THAN ITS OWN WEIGHT. NO WALL, CHIMNEY, OR OTHER STRUCTURAL PART SHALL BE LEFT IN SUCH CONDITION THAT IT MAY COLLAPSE OR BE TOPPLED BY WIND, VIBRATION OR ANY OTHER CAUSE. THE METHOD OF REMOVAL OF ANY STRUCTURAL MEMBER SHALL NOT DESTABILIZE REMAINING MEMBERS. ALL HANDLING AND MOVEMENT OF MATERIAL OR DEBRIS SHALL BE CONTROLLED SUCH THAT IT WILL NOT DEVELOP UNACCOUNTED IMPACT LOADS ON THE STRUCTURE.

18. DEMOLITION OF MASONRY BUILDINGS WITH WOODEN FLOORS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
    1. DEMOLITION OF WALLS AND PARTITIONS SHALL PROCEED IN A SYSTEMATIC MANNER, AND ALL WORK ABOVE EACH TIER OF FLOOR BEAMS SHALL BE COMPLETED BEFORE ANY OF THE SUPPORTING STRUCTURAL MEMBERS ARE DISTURBED.
    2. SECTIONS OF MASONRY WALLS SHALL NOT BE LOOSENED OR PERMITTED TO FALL IN SUCH MASSES AS TO AFFECT THE CARRYING CAPACITY OF FLOORS OR THE STABILITY OF STRUCTURAL SUPPORTS.

RELATED JOB FILLINGS	JOB NUMBERS
FENCE APPLICATION	PENDING
SHED APPLICATION	PENDING
SCAFFOLD APPLICATION	PENDING

19. DURING HAND DEMOLITION, NO BEARING PARTITION SHALL BE REMOVED (IF UNSURROUNDED) FROM ANY FLOOR UNTIL THE FLOOR FRAMING SYSTEM ON THE FLOOR ABOVE HAS BEEN REMOVED AND LOWERED.

20. MATERIAL SHALL NOT BE STORED OR PILED ON CATCH PLATFORMS, WORKING PLATFORMS, FLOORS, OR STAIRWAYS OF ANY STRUCTURE. SHOULD THE CONTRACTOR NECESSITATES THE USE OF A TEMPORARY STORAGE LOCATION WITHIN A FLOOR, HE/SHE MUST SUBMIT A REQUEST IN WRITING TO THE ENGINEER FOR APPROVAL.

21. DEBRIS, BRICKS, AND SIMILAR MATERIAL SHALL BE REMOVED BY MEANS OF CHUTES REFER TO SAFETY ZONE PLAN FOR CHUTE LOCATION.

22. DEBRIS STORED IN THE BASEMENT OR BASEMENT MUST NOT BE PILED UP ABOVE THE LEVEL OF THE ADJACENT EXTERIOR GRADE.

23. CONTRACTOR MUST LOCATE DEMOLITION EQUIPMENT AS DIRECTED ON THIS SET OF PLANS. DEBRIS MATERIAL MUST BE REMOVED ALSO NOT IMPOSE LOADS ON WALLS, FLOORS OR FRAMING.

24. DUST PRODUCING OPERATIONS SHALL BE WETTED DOWN TO THE EXTENT NECESSARY TO CONTROL AIRBORNE DUST. IF WATER OF DUST CONTROL IS FROM A FIRE HYDRANT, A PERMIT FROM D.E.P. MUST BE OBTAINED BY THE CONTRACTOR.(3306.9.3). IF HYDRANT IS NOT AVAILABLE IN THE VICINITY OF THE JOB WATER MUST BE SUPPLIED FROM A WATER TRUCK AS NECESSARY.

25. ALL AREAS USED BY THE PUBLIC SHALL BE MAINTAINED FREE FROM ICE, SNOW, GREASE, DEBRIS, EQUIPMENT, MATERIALS, PROJECTIONS, TOOLS, OR THEIR ITEMS, SUBSTANCES, OR CONDITIONS THAT MAY CONSTITUTE A SLIPPING, TRIPPING, OR OTHER HAZARD. 3303,.4.1.2

26. CONTAINERS, WASTE DUMPSTER, DEBRIS BOXES AND SKIP BOXES SHALL COMPLY WITH THE FOLLOWING: (3303.4.2)
    A. WASTE DUMPSTER, DEBRIS BOXES AND SKIP BOXES SHALL BE SECURED BY ROPE, CABLE OR CHOCKING AT WHEELS AT THE END OF THE WORKDAY IN ORDER TO PREVENT MOVEMENT. SUCH WASTE DUMPSTER, DEBRIS BOXES AND SKIP BOXES SHALL NOT BE PLACED AT THE EDGE OF THE BUILDING AT ANY TIME, EXCEPT WHEN BEING MOVED FROM THE FLOOR OR BUILDING.
    B. CONTAINERS CONTAINING DEBRIS OR WASTE SHALL BE SURROUNDED AT THE END OF THE WORKDAY AND AT ANY TIME WHEN FULL TO NEAR THE RIM. CONTAINERS NEED NOT BE SURROUNDED WHEN THEY ARE NOT IN USE OR WHILE STORED IN A FULLY ENCLOSED SPACE AT THE END OF THE WORKDAY.

27. CONTRACTOR MUST OBTAIN ALL REQUIRED PERMITS FROM THE DEPARTMENT OF TRANSPORTATION (DOT) FOR ANY STREET OBSTRUCTION OR STREET CLOSING AS PER NYCBC 3307.4.3.

28. NO STREET OR SIDEWALK SHALL BE CLOSED EITHER IN WHOLE OR IN PART WITHOUT A PERMIT FROM THE DEPARTMENT OF TRANSPORTATION. SUCH PERMIT SHALL BE DISPLAYED AT THE JOB SITE. THE CLOSING OR TEMPORARY USE OF STREETS OR SIDEWALKS OR THE OBSTRUCTION OF ANY PART THEREOF SHALL COMPLY WITH THE REQUIREMENTS OF THE DEPARTMENT OF TRANSPORTATION. (3307.2 AND 3307.2.1 THRU 3307.2.6)

29. IF CONTRACTOR UNCOVERS A SITE CONDITION THAT IS NOT DEPICTED ON DEMOLITION DRAWING, E.O.R MUST BE IMMEDIATELY NOTIFIED IN ORDER TO EVALUATE THAT CONDITION.
E.O.R WILL DETERMINE IF UNSURROUNDED CONDITION WILL REQUIRE THE ALTERATION OF THE PROPOSED DEMOLITION SEQUENCE INCLUDING BUT NOT LIMITED TO THE UTILIZATION OF TEMP. SHORING, BRACING OR OTHER MEANS OF STRUCTURAL SUPPORT.

30. DO NOT USE CUTTING TORCHES UNTIL WORK AREA IS CLEARED OF FLAMMABLE MATERIALS. AT CONCEALED SPACES, SUCH AS DUCT AND PIPE INTERIORS, VERIFY CONDITION AND CONTENTS OF HIDDEN SPACE BEFORE STARTING FLAME-CUTTING OPERATIONS. MAINTAIN FIRE WATCH AND PORTABLE FIRE-SUPPRESSION DEVICES DURING FLAME-CUTTING OPERATIONS.

31. ALL WORK SPECIFIED ON DEMOLITION PLANS MUST BE COMPLETED PRIOR TO DEMOLITION SIGN OFF.

32. DEMOLITION OPERATIONS MUST NOT INTERFERE WITH NATURAL SURFACE DRAINAGE. WATER COURSES, DRAINAGE DITCHES, ETC. MUST NOT BE OBSTRUCTED BY DEMOLITION DEBRIS.

33. ACCUMULATION OF WATER AT ADJOINING FOUNDATIONS MUST BE PREVENTED IN ORDER TO AVOID WATER DAMAGE. CONTRACTOR MUST CRUSH EXISTING SLABS-ON-GRADE OR PROVIDE SUMP PUMPS AS REQUIRED.

34. ASBESTOS MUST BE REMOVED PRIOR TO COMMENCING ANY DEMOLITION OPERATION CONTRACTOR MUST OBTAIN PERMIT FROM THE DEPARTMENT OF ENVIRONMENTAL PROTECTION
FOR ASBESTOS REMOVAL.

35. PRIOR TO COMMENCEMENT OF DEMOLITION OPERATIONS, ALL PIPES, TANKS, BOILERS CONTAINING STEAM OR FUEL AND LOCATED IN THE AREA AUTHORIZED TO BE DEMOLISHED MUST BE PURGED OF SUCH STEAM OR FUEL.

36. A LICENSED EXTERMINATOR SHALL EFFECTIVELY TREAT THE PREMISES FOR RODENT EXTERMINATION AS PER THE REQUIREMENTS OF THE DEPARTMENT OF HEALTH AND MENTAL HYGIENE. (3306.9.13)

37. ALL WORKERS, FOREMAN, MANAGERS AND PROJECT SUPERINTENDENTS WORKING ON THE SITE ARE REQUIRED TO HAVE SUCCESSFULLY COMPLETED A 10 HOUR COURSE IN CONSTRUCTION SAFETY APPROVED BY THE UNITED STATES DEPARTMENT OF LABOR OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION AS REQUIRED BY LOCAL LAW 41 OF 2014. COMPLY WITH ANSI A 10.6 AND NFPA 241.

EMERGENCY CONTACT NUMBERS (NOT 311 OR 911)

DOB BROOKLYN BOROUGH OFFICE
210 JORALEMON STREET, 8TH FLOOR
BROOKLYN, NY 11201
BOROUGH COMMISSIONER:
(718) 802-3677 & (718) 802-3676
BOROUGH MANAGER: (718) 802-3635
CUSTOMER SERVICE: (718) 802-3675
TTY NUMBER: (718) 802-4330

EMERGENCY OPERATIONS CENTER (EOC)
TEL: (212) 393-2127

FIRE DEPARTMENT GENERAL NUMBER (718) 999-2000

MH (212) 570-4300

DEPARTMENT OF TRANSPORTATION
BROOKLYN BOROUGH COMMISSIONER: KEITH BRAY
TEL. (646) 892-1350

NEW YORK POLICE DEPARTMENT:
71ST PRECINCT
ADDRESS: 421 EMPIRE BOULEVARD, BROOKLYN, NY, 11225
PHONE: (718) 735-0511

JOB DESCRIPTION:

1. FULL DEMOLITION OF 3 STORY MASONRY BUILDING, 1 STORY STEEL FRAME BUILDING & 2 BRIDGE LOCATED AT 266 BARBEY STREET., BROOKLYN, NY.

2. DEMOLITION START WITH 1 STORY STEEL FRAME BUILDING.

3. ONCE DEMOLITION OF 1 STORY STEEL FRAME BUILDING COMPLETE CONTRACTOR CAN START DEMOLITION OF 2 BRIDGE ONE AT A TIME .

4. ONCE DEMOLITION OF 2 BRIDGE ARE COMPLETE CONTRACTOR CAN START DEMOLITION OF 3 STORY MASONRY BUILDING .

5. CONTRACTOR MUST FOLLOW ALL PROTECTION AND SAFETY RECOMMENDATIONS DESCRIBED ON GENERAL NOTES, PROTECTION NOTES, DEMOLITION SEQUENCES, DEBRIS REMOVAL NOTES AND ANY ADDITIONAL NOTES THAT ARE PART OF THE PRESENT SET OF DRAWINGS.

6. NO SIAMESE CONNECTION OR STAND PIPE ACTIVE OR INSTALLED IN THE BUILDING.

SPECIAL INSPECTIONS REQUIRED BY BUILDING CODE:

1. MECHANICAL DEMOLITION	BC 1704.20.4 BC 3306.6
2. STRUCTURAL STABILITY	BC 1704.20.1

DEMOLITION OF WEAKENED STRUCTURES:

THIS BUILDING IS NOT A WEAKENED STRUCTURE, THE STRUCTURAL STABILITY OF THIS BUILDING HAS BEEN EVALUATED, ANY PROBING (IF REQUIRED) HAS BEEN PERFORMED. THE STRUCTURE WAS FOUND STABLE AND SUITABLE FOR DEMOLITION PERSONNEL TO PERFORMED DEMOLITION OPERATIONS FROM WITHIN THE BUILDING.

NOTE:

1. NECESSARY ACCESS AGREEMENTS MUST BE OBTAINED PRIOR TO INSTALLATION OF REQUIRED PROTECTION BEYOND THE PROPERTY LINES.
2. ACCESS AGREEMENTS MUST BE KEPT AVAILABLE ON THE JOB SITE FOR THE DURATION OF THE JOB.
3. THE CONTRACTOR MUST OBTAIN ALL CRANE RELATED PERMITS BEFORE USE OF CRANE ON DEMOLITION SITE.

MECHANICAL EQUIPMENT LIST:

1. BOBCAT S 250 (OR EQUIVALENT APPROVED BY ENGINEER) FOR DEBRIS REMOVAL, TRUCK LOADING, SLAB ON GRADE REMOVAL AND BACKFILLING.	TO OPERATE ON GROUND ONLY
2. R210LC-9 HYDRAULIC EXCAVATOR (OR EQUIVALENT APPROVED BY ENGINEER) FOR STRUCTURAL REMOVAL DEBRIS REMOVAL, TRUCK LOADING, SLAB ON GRADE REMOVAL AND BACKFILLING.	TO OPERATE ON GROUND ONLY
3. TEREX RT 3160 CRANE (OR EQUIVALENT APPROVED BY ENGINEER) FOR STEEL BRIDGE REMOVAL CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS FROM DOT, DOB ETC., PRIOR TO BRINGING AND USING CRANE ON THE SITE.	TO OPERATE ON GROUND ONLY
4. SUMNER R-250 ROUST-A-BOUT (OR EQUIVALENT APPROVED BY ENGINEER) FOR STRUCTURAL REMOVAL OF BEAMS.	TO OPERATE ON ALL FLOORS

HANDTOOL EQUIPMENT LIST:

1. CHAIN SAWS
2. CHIPPING GUNS
3. JACKHAMMERS
4. ELECTRIC GRINDER
5. COMPRESSOR
6. GAS-POWERED DEMOLITION SAW

NOTIFICATIONS

FOR DEMOLITION ONLY:
CONTACT THE CENTER 24 HOURS BEFORE START OF WORK AT (212) 393-2550

FOR EXCAVATION ONLY:
CONTACT THE CENTER 24 HOURS BEFORE START OF WORK AT (212) 393-2550

FIRE PREVENTION NOTES:

1. A HYDRANT IS LOCATED IN FRONT OF THE BUILDING AT THE SIDEWALK OF OF SCHENCK AVENUE.
2. ALL MEANS OF EGRESS MUST BE CLEARED OF DEBRIS AT ALL TIME AND SIGNALED.
3. EXTINGUISHERS MUST BE PROVIDED ON EACH FLOOR
4. SMOKING IS PROHIBITED AT ALL TIMES.

STRUCTURAL STABILITY INSPECTION PROGRAM:

1. E.O.R WILL PERFORM AT LEAST THREE STRUCTURAL STABILITY INSPECTIONS (BEFORE AND DURING DEMOLITION OPERATIONS AND AFTER WORK HAS BEEN COMPLETED).
2. CONTRACTOR MUST INFORM E.O.R OF ANY POTENTIAL CHANGE TO THE SEQUENCE OF WORK PROPOSED ON PLANS DUE TO UNCOVERED SITE CONDITIONS. E.O.R SHOULD VISIT THE SITE TO ASSESS POSSIBLE IMPACT TO STRUCTURAL STABILITY OF BUILDINGS.
3. IF DURING DEMOLITION OPERATIONS CONTRACTOR ENCOUNTERS BUILDING ELEMENTS (FROM BUILDING BEING DEMOLISHED OR FROM ADJACENT BUILDINGS) THAT ARE IN DETERIORATED OR IN POOR CONDITION HE/SHE MUST NOTIFY THE E.O.R.. THE E.O.R SHOULD ASSESS ANY IMPACT TO STRUCTURAL STABILITY/SAFETY BEFORE THE CONTRACTOR IS ALLOWED TO RESUME DEMOLITION AT/NEAR THOSE AREAS.

DUST CONTROL & DEBRIS REMOVAL PROCEDURE:

1. A DEMOLITION REGISTRATION SHALL BE FILED WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION 10 DAYS PRIOR TO THE COMMENCEMENT OF DEMOLITION.
2. ADEQUATE WETTING SHALL BE EMPLOYED BEFORE AND DURING THE DEMOLITION OF ANY SECTION OR WALL OF THE STRUCTURE.
3. DEBRIS SHALL BE TRANSPORTED THROUGH DUST-TIGHT CHUTES OR IN BUCKETS AND SHALL NOT BE DROPPED OR THROWN FROM ANY FLOOR. ANY DEBRIS IN CHUTES OR BUCKETS SHALL BE SUFFICIENTLY WETTED TO PRECLUDE DUST DISPERSION AT THE POINT OF DISCHARGE.
4. DUST AND DEBRIS FROM THE DEMOLITION OPERATIONS SHALL BE REMOVED DAILY FROM THE ADJACENT STREETS, SIDEWALKS AND ALLEYS. AN INSPECTION SHALL BE MADE DAILY FOR DEMOLITION DEBRIS ON ALL FLOORS.
5. CONTRACTOR SHALL USE BARRELS AND PUMPS TO ENSURE SUFFICIENT WATER PRESSURE AT ALL FLOORS TO KEEP DUST LEVEL WITHIN ALLOWABLE LEVELS AS DEFINED BY CURRENT NYC CODE.
6. WINDOWS SHALL BE BOARDED UP WHENEVER POSSIBLE TO KEEP DUST WITHIN PREMISES. AN AIR MONITOR SHALL BE INSTALLED ONSITE TO ENSURE THAT DUST LEVEL IS NOT EXCEED THE ALLOWABLE AS DEFINED BY CURRENT NYC CODE.
7. WOOD OR ANY OTHER CONSTRUCTION DEBRIS SHOULD BE CARRIED OUT USING HAND HELD DEVICES ON ALL FLOORS ABOVE GROUND LEVEL.

8. DUST PRODUCING OPERATIONS MUST BE WETTED DOWN TO THE REQUIRED AMOUNT NEEDED TO CONTROL THE DUST. CONTRACTOR MUST OBTAIN A PERMIT FROM D.E.P. IF WATER FROM THE HYDRANT WILL BE USED FOR DUST CONTROL OPERATIONS.
9. DEBRIS AND DEMO MATERIAL MUST BE REMOVED BY MEANS OF CHUTE OR BUCKET., FOR REMOVAL OF CONSTRUCTION DEBRIS USE ½ CUBIC YARD CONTAINER AS INDICATED ON SAFETY ZONE PLAN
DM-102. ALL CHUTES SPECIFIED ARE TO BE 3'-0"Ø DURACHUTE #300 PLASTIC OR EQUAL DEBRIS CHUTE. REFER TO MANUFACTURER SPECIFICATIONS FOR INSTALLATION.
10. ALL ½ CUBIC YARD CONTAINERS USED ARE TO BE FILLED FLUSH TO THE TOP OF THE CONTAINER ONLY. NO MORE THAN ONE CONTAINER IS TO BE USED ON ANY FLOOR AT ONE TIME. THE MAX DEBRIS SIZE THAT CAN BE PLACED IN THE CONTAINER SHALL NOT EXCEED 12"X12"X12"AND SHALL BE EXCLUDED TO MASONRY AND TIMBER MATERIAL FROM ON SITE DEMOLITION DEBRIS ONLY.
11. DEBRIS BOXES, POWER BUGGIES, WASTE DUMPSTER CAN BE USED TO COLLECT DEBRIS FROM BUCKET MEANS ON GROUND ONLY.
12. BOBCAT S250 WILL BE USED ON GROUND ONLY TO REMOVE DEBRIS, TRUCK LOADING OPERATIONS AND BACKFILLING.
13. R210LC-9 HYDRAULIC EXCAVATOR WILL BE USED ON GROUND ONLY TO REMOVE DEBRIS, TRUCK LOADING OPERATIONS AND BACKFILLING.

OPTICAL MONITORING INSPECTION PROGRAM FOR LANDMARK BUILDINGS (TPPN 10-88):

1. CONTRACTOR MUST IMPLEMENT OPTICAL MONITORING OF BUILDINGS LISTED "AS LANDMARK BUILDINGS" BELOW FOR THE DURATION OF THE DEMOLITION WORK.

2. MONITORING ENGINEER MUST PROVIDE MONITORING PLAN SHOWING MONITORING LOCATIONS TO E.OR. FOR REVIEW AND APPROVAL PRIOR TO THE COMMENCEMENT OF DEMOLITION OPERATIONS.

3. BASELINE READINGS OF THE MONITORING POINTS MUST BE OBTAINED AND RECORDED PRIOR TO THE COMMENCEMENT OF DEMOLITION OPERATIONS.

4. OPTICAL SURVEY IS TO BE PERFORMED AT LEAST TWICE PER WEEK. MONITORING SEQUENCE IS TO BE INCREASED IF MOVEMENT IS DETECTED AND/OR AS DIRECTED BY E.O.R.

5. MONITORING ENGINEER/CONTRACTOR MUST NOTIFY DEMOLITION E.O.R. IF VERTICAL OR LATERAL MOVEMENT IS FOUND TO BE ⅜" OR MORE.

6. DEMOLITION OPERATIONS MUST STOP IMMEDIATELY IF ANY VERTICAL OR LATERAL READING IS FOUND TO REACH ¾". E.O.R. WILL VISIT THE SITE TO ASSESS ANY STRUCTURAL IMPACT. DEMOLITION OPERATIONS CAN RESUME ONLY IF APPROVED BY ENGINEER OF RECORD.

7. E.O.R. WILL DETERMINE IF DEMOLITION MEANS AND METHODS NEED TO BE MODIFIED AT ANY TIME.

8. REFER TO APPROVED MONITORING PLAN FOR ADDITIONAL INFORMATION.

VIBRATION MONITORING PROGRAM FOR LANDMARK BUILDINGS (TPPN 10-88):

1. CONTRACTOR MUST IMPLEMENT CONTINUOUS VIBRATION MONITORING PROGRAM OF BUILDINGS LISTED AS "LANDMARK BUILDINGS" BELOW.

2. PEAK PARTICLE VELOCITY (PPV) OF 0.3 INCHES PER SECOND (IPS) SHALL BE CONSIDERED AS THE ALERT LEVELS FOR BUILDINGS, FACILITIES AND STRUCTURES INCLUDING UTILITIES AND UTILITIES APPURTENANCES.

3. PEAK PARTICLE VELOCITY (PPV) OF 0.5 INCHES PER SECOND (IPS) SHALL BE CONSIDERED AS THE UPSET LEVELS FOR BUILDINGS, FACILITIES AND STRUCTURES INCLUDING UTILITIES AND UTILITIES APPURTENANCES. CONTRACTOR MUST NOTIFY E.O.R. AND STOP ALL WORK UNTIL AN ASSESSMENT IS CONDUCTED PRIOR TO RESUMING WORK.

4. MAXIMUM PERMISSIBLE PEAK VELOCITY SHALL BE REDUCED IF MOVEMENT OR CRACKING IS DETECTED.

5. MONITORING ENGINEER MUST PROVIDE MONITORING PLAN SHOWING MONITORING LOCATIONS TO E.OR. FOR REVIEW AND APPROVAL PRIOR TO THE COMMENCEMENT OF DEMOLITION OPERATIONS.

6. E.O.R. WILL DETERMINE IF DEMOLITION MEANS AND METHODS NEED TO BE MODIFIED AT ANY TIME.

7. REFER TO APPROVED MONITORING PLAN FOR ADDITIONAL INFORMATION.

LANDMARK BUILDINGS:

1. LANDMARK STRUCTURE BETWEEN A 90' DISTANCE ARE:

- 266 BARBEY STREET, BLOCK: 3964 LOT: 8.
- 2840 ATLANTIC AVENUE, BLOCK: 3964 LOT: 8.
- 2846 ATLANTIC AVENUE, BLOCK: 3964 LOT: 8.
- 2852 ATLANTIC AVENUE, BLOCK: 3964 LOT: 8.
- 2858 ATLANTIC AVENUE, BLOCK: 3964 LOT

DEPT BLDGS Job No. 321836778
Scan Code ESHS9490676

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION/DSC
APR 25 2019
NAWEED CHAUDHRI

ENGINEER

HHO
ENGINEERING, DPC
44-02 11TH STREET, OFFICE 406
LONG ISLAND CITY, NY 11101
T: (347) 639-0669

PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

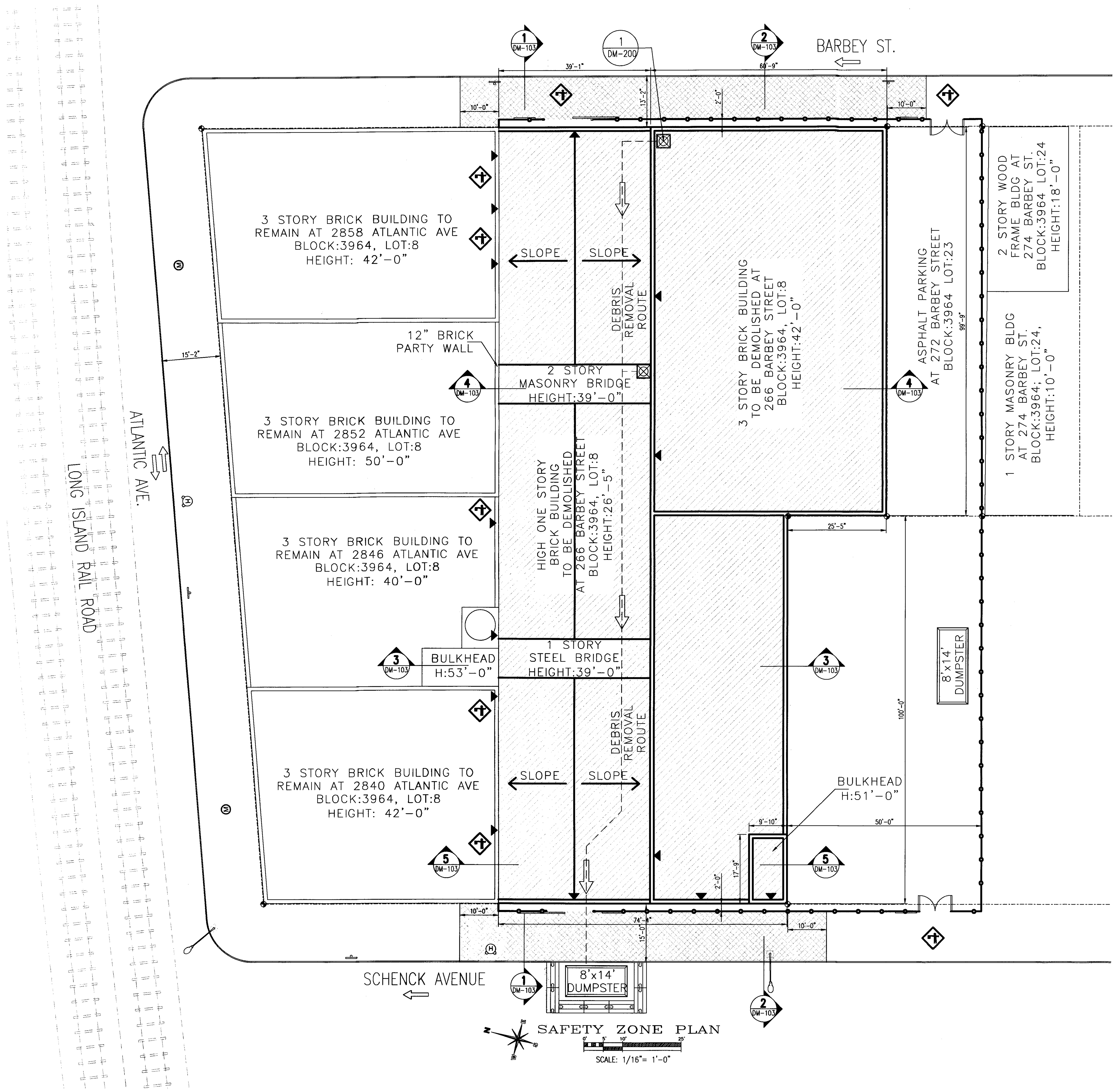
GENERAL NOTES

SEAL & SIGNATURE

STATE OF NEW YORK · SHIHUGE E. HUANG · LICENSED PROFESSIONAL ENGINEER

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-101.00

SHEET 2 OF 34

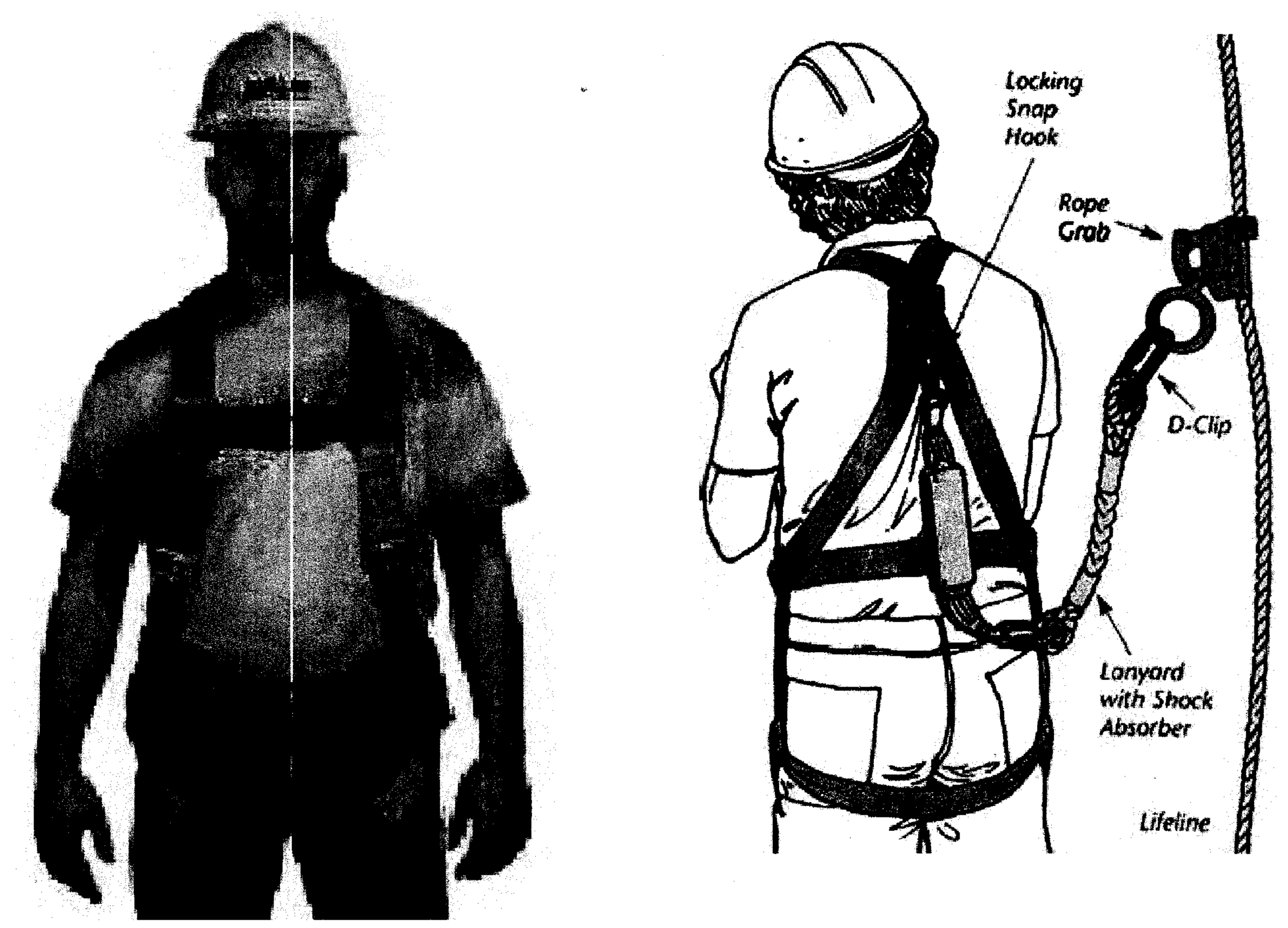


PERSONNEL SAFETY NOTES:

1. ALL PERSONNEL WORKING ON SCAFFOLD OR OPEN FLOORS AND HAND TOOL REMOVING WOOD OR STEEL JOIST MUST BE TIED UP TO COLUMNS USING A HARNESS.
2. CONTRACTOR SHALL IMPLEMENT CONVENTIONAL FALL PROTECTION SYSTEMS FOR WORKERS ACCORDING TO OSHA REQUIREMENTS.

NOTE:

1. NECESSARY ACCESS AGREEMENTS MUST BE OBTAINED PRIOR TO INSTALLATION OF REQUIRED PROTECTION BEYOND THE PROPERTY LINES.
2. ACCESS AGREEMENTS MUST BE KEPT AVAILABLE ON THE JOB SITE FOR THE DURATION OF THE JOB.
3. FENCE, SHED & SCAFFOLD APPLICATION WILL BE FILED SEPARATELY.



LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS APPROVED DEMOLITION/CSC
APR 25 2019
NAWEED CHAUDHRI

ENGINEER

H+O ENGINEERING, DPC
44-02 11TH STREET, OFFICE 406
LONG ISLAND CITY, NY 11101
T: (347) 639-0669

PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

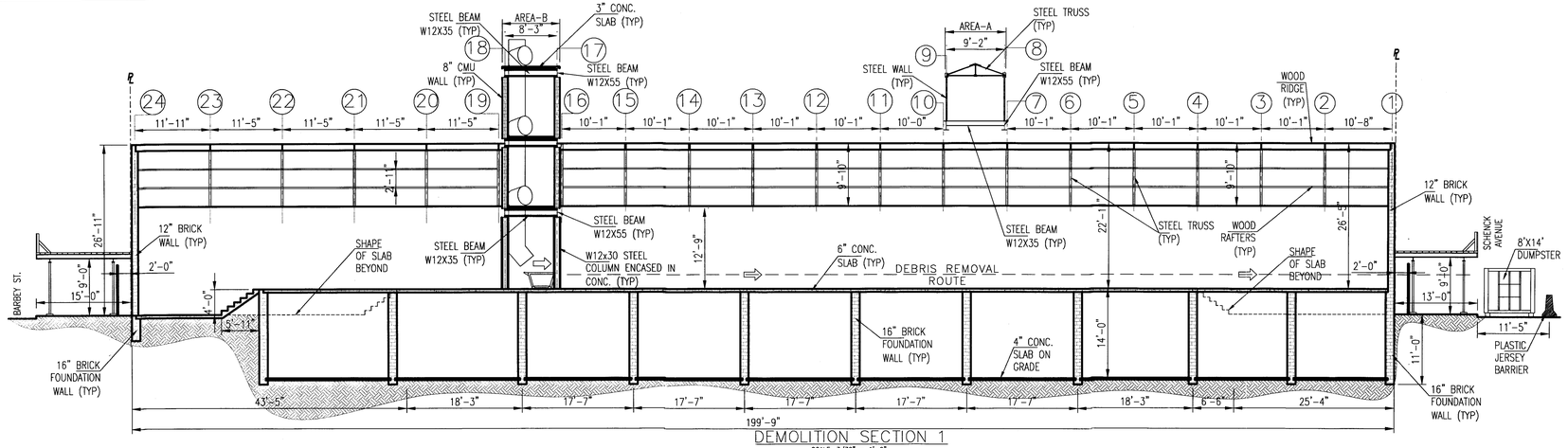
SITE SAFETY PLAN

SEAL & SIGNATURE

STATE OF NEW YORK · LICENSED PROFESSIONAL ENGINEER

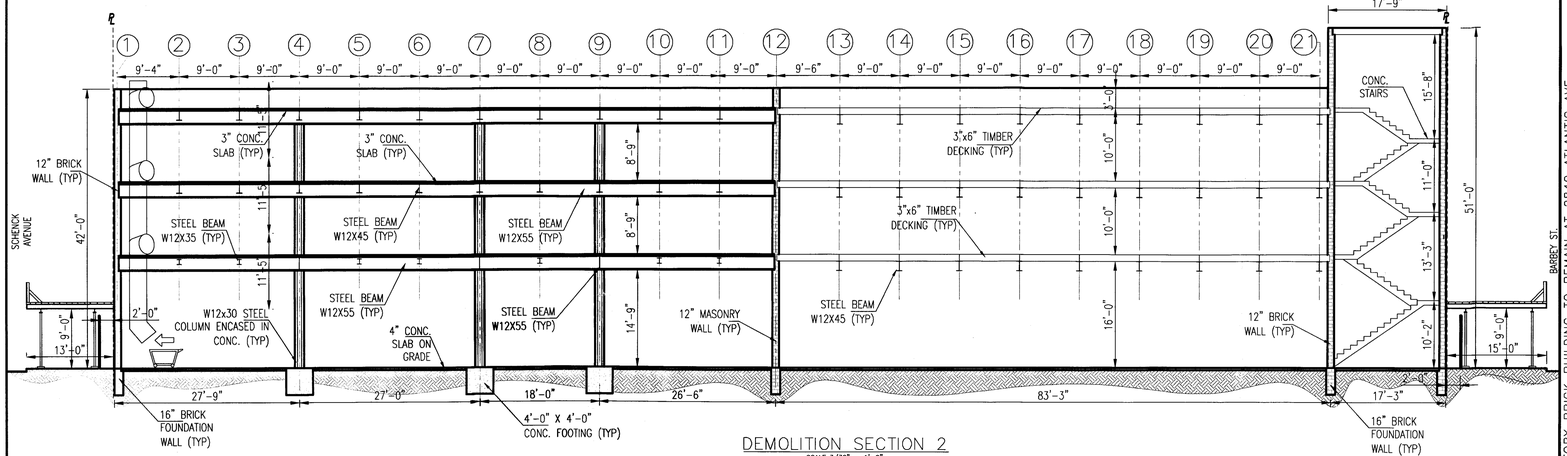
DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-102.00

DEPT BLDGS Job No. 321836778
Scan Code ESHS5329199



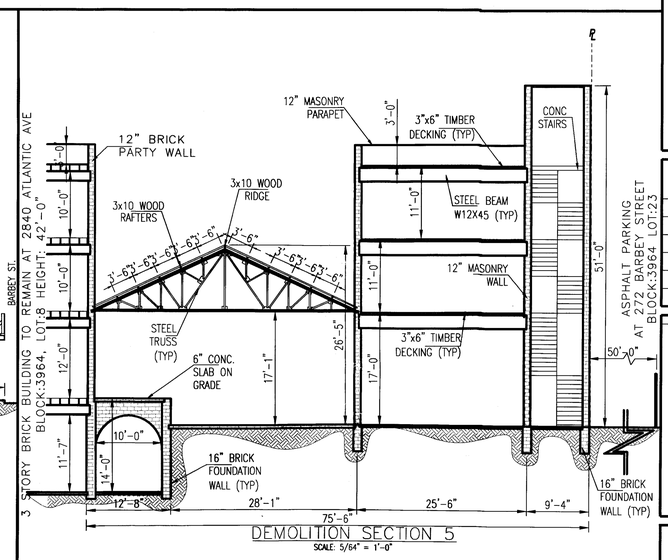
DEMOLITION SECTION 1

SCALE: 3/32" = 1'-0"



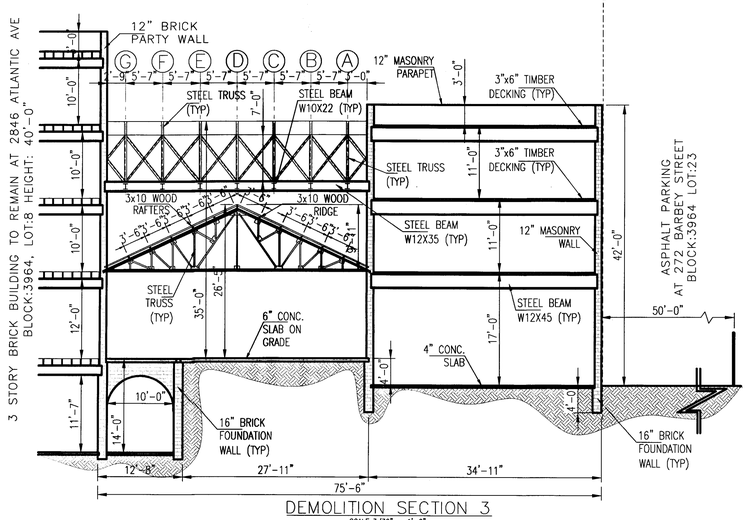
DEMOLITION SECTION 2

SCALE: 3/32" = 1'-0"



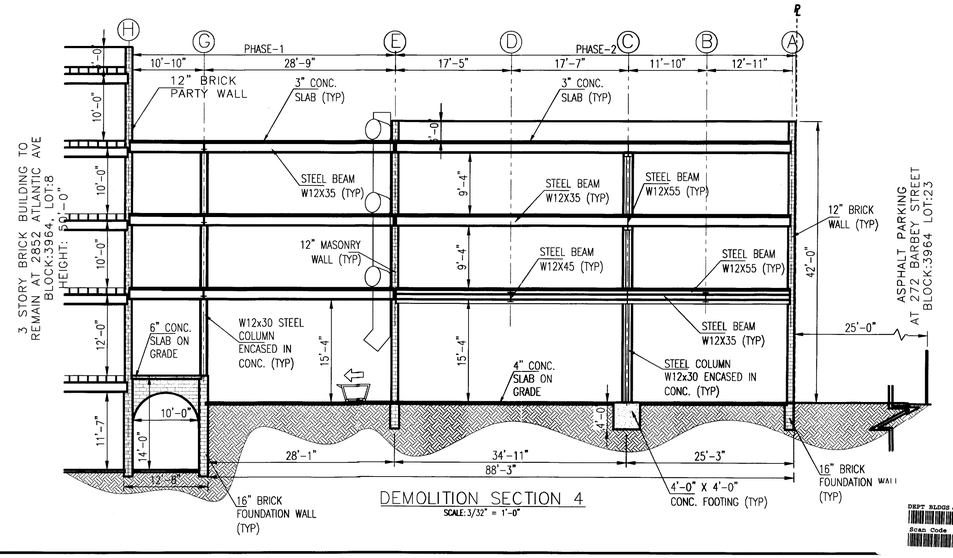
DEMOLITION SECTION 5

SCALE: 5/64" = 1'-0"



DEMOLITION SECTION 3

SCALE: 3/32" = 1'-0"



DEMOLITION SECTION 4

SCALE: 3/32" = 1'-0"

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS APPROVED DEMOLITION

APR 25 2019

NAWEED CHAUDHRI

ENGINEER

H+O ENGINEERING, DPC

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PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

SITE SAFETY SECTIONS

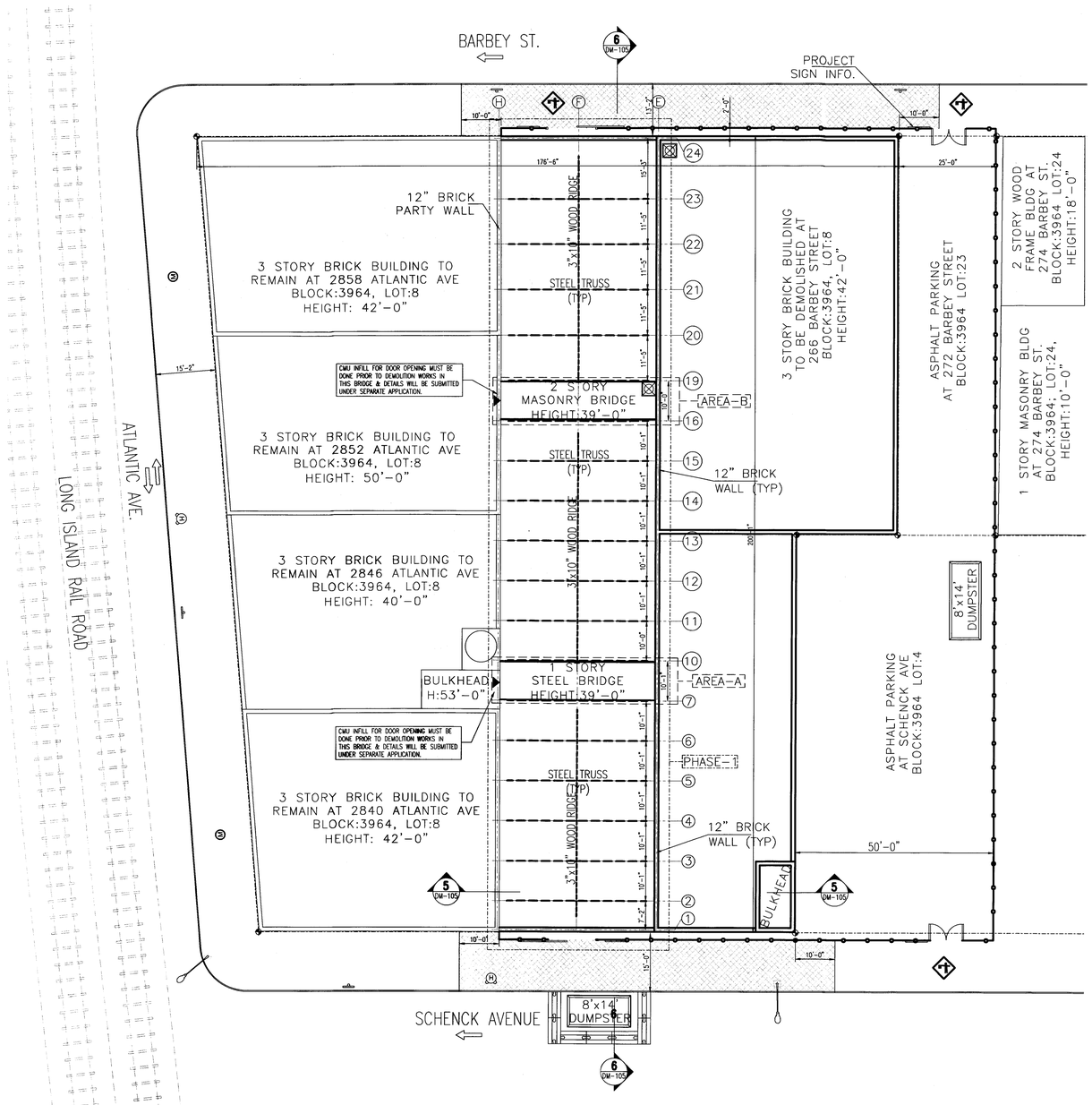
SEAL & SIGNATURE

STATE OF NEW YORK · LICENSED PROFESSIONAL ENGINEER

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-103.00

SHEET 4 OF 34

DEPT RECDS Job No: 321836778
Scan Code ESHSS313318



ROOF DEMOLITION PLAN PHASE-1

SCALE: 1/16"= 1'-0"

SEQUENCE OF DEMOLITION:

PREPARATION WORK:

1. INSTALL PROTECTIONS AS SHOWN ON SAFETY ZONE PLAN ON DM-102.00
2. ACCESS AGREEMENT MUST BE OBTAINED IN ORDER TO INSTALL PROTECTIONS IN NEIGHBOR'S AREAS AS REQUIRED.
3. ALL MEANS OF EGRESS SHOULD BE CLEARED OF ANY OBSTRUCTION DEBRIS AT ALL TIMES.
4. THE DEMOLITION CONTRACTOR MUST REMOVE ALL HAZARDS SUCH AS DOORS, WINDOWS ETC PRIOR TO COMMENCEMENT OF DEMOLITION.
5. FIXTURES, CABINETS, CLOSETS, ETC MUST BE REMOVED PRIOR TO DEMOLITION WORK.
6. ALL ROOFING MATERIALS MUST BE HAND TOOL REMOVED. ALL GUTTERS LEADERS, WEATHERPROOFING AND SHEATHING MATERIAL, METAL FLASHING AND COUNTER-FLASHING MUST BE REMOVED BY HAND.
7. ASBESTOS ABATEMENT IF REQUIRED MUST BE PERFORMED PRIOR TO COMMENCEMENT OF DEMOLITION OPERATIONS.
8. ALL WALL OPENINGS AT GRID LINE "H" MUST BE INFILL UNDER SEPARATE APPLICATION.

STEP-"A":
PHASE-1:

DEMOLITION OF ROOF 1 STORY STEEL FRAME BUILDING:

HAND TOOL REMOVAL BETWEEN GRID LINE "1" & "3"

A.1 FROM FRONT TO BACK HAND TOOL REMOVE WOOD RAFTER ASSISTED WITH MOVABLE SCAFFOLD AND LOWER IT TO GRADE LEVEL.
A.2 HAND TOOL REMOVE 3"x10" WOOD RIDGE BETWEEN GRID LINE "1" & "2" AS FOLLOWS:
A.2.1 INSTALL HEAVY DUTY MOVABLE SCAFFOLD.
A.2.2 GRAB THE PORTION OF 3"x10" WOOD RIDGE.
A.2.3 SAW CUT ON THE EDGE.
A.2.4 MANUALLY BRING DOWN THE PORTION OF RIDGE DOWN TO GRADE LEVEL.
A.3 HAND TOOL REMOVE WALL AT GRID LINE "1" ASSISTED WITH MOVABLE SCAFFOLD DOWN TO GRADE LEVEL
NOTE: NO PORTION OF BRICK WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME
A.4 HAND TOOL REMOVE STEEL TRUSS (WT:2000 LBS) AT GRID LINE "2" AND 3"x10" WOOD RIDGE BETWEEN GRID LINE "2" & "3" FOLLOWING THE SAME PROCEDURE FROM A.2.1 TO A.2.3.

HAND TOOL REMOVAL ASSISTED WITH EXCAVATOR:

A.5 HAND TOOL REMOVE 3"x10" WOOD RIDGE BETWEEN GRID LINE "3" & "4" AS FOLLOWS:
A.5.1 GRAB THE PORTION OF 3"x10" WOOD RIDGE.
A.5.2 SAW CUT ON THE EDGE ASSISTED WITH MOVABLE SCAFFOLD.
A.5.3 BRING DOWN THE PORTION OF RIDGE DOWN TO GRADE LEVEL ASSISTED WITH EXCAVATOR.
A.6 REPEAT THE SAME PROCEDURE FROM A.5.1 TO A.5.3 FOR REMOVAL OF REMAINING COMPLETED STEEL TRUSSES ONE BY ONE (WEIGHT: APROX. 2000LB EACH TRUSS) AND 3"x10" WOOD RIDGE.

NOTE: PROVIDE TEMPORARY LATERAL SUPPORT FOR LAST STEEL TRUSS TO PREVENT TOPPLING.

A.7 HAND TOOL REMOVE WALL AT GRID LINE "27" ASSISTED WITH MOVABLE SCAFFOLD DOWN TO GRADE LEVEL UNTIL ALL WALLS ARE REMOVED.
NOTE: NO PORTION OF BRICK WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME

DEPT BLDGS Job No. 321836778
Scan Code ESHS1340543

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION/CSC
APR 25 2019
NAWEED CHAUDHRI

ENGINEER
HHO
ENGINEERING, DPC
44-02 11TH STREET, OFFICE 406
LONG ISLAND CITY, NY 11101
T: (347) 639-0669

PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

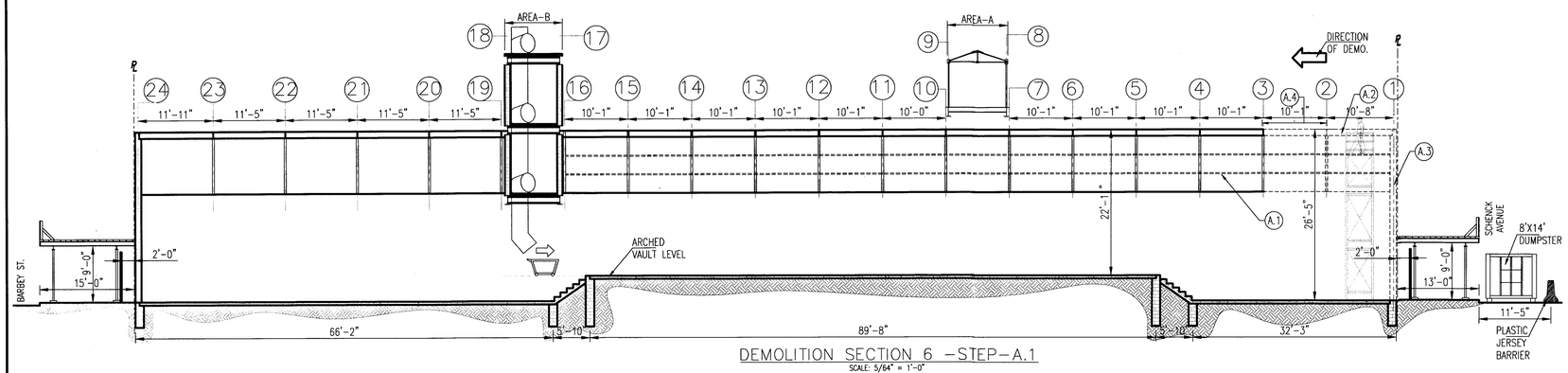
SHEET TITLE

ROOF DEMOLITION PLAN (PHASE-1) STEP "A"

SEAL & SIGNATURE

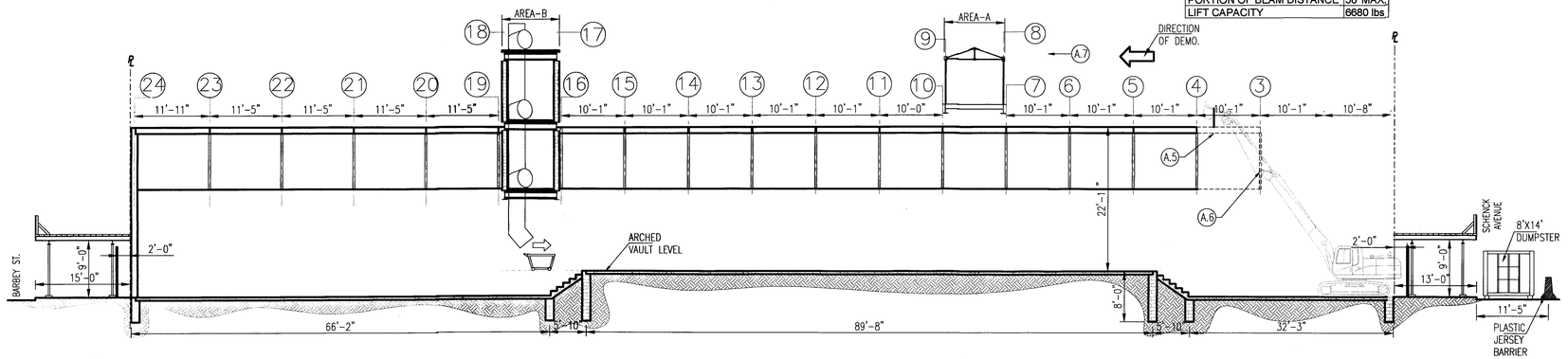
STATE OF NEW YORK · SANTIAGO E. HELMAN · LICENSED PROFESSIONAL ENGINEER

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-104.00



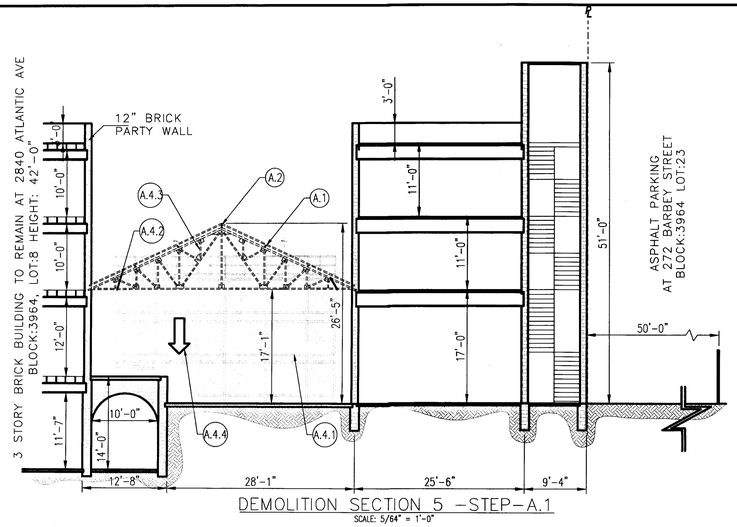
DEMOLITION SECTION 6 -STEP-A.1

SCALE: 5/64" = 1'-0"



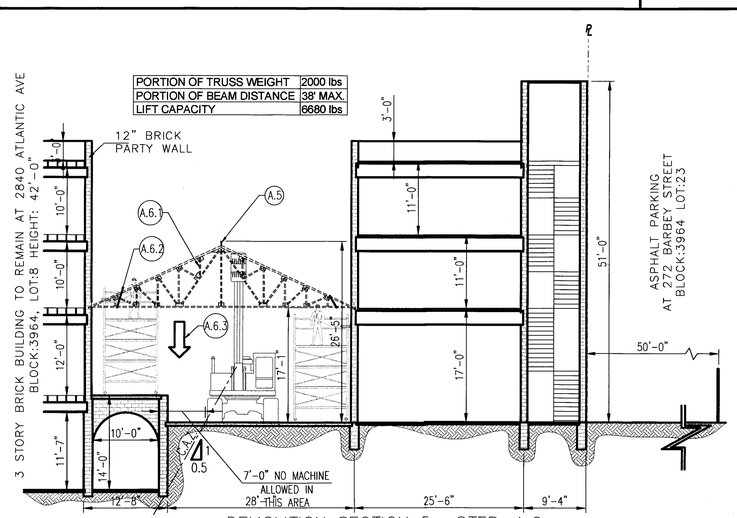
DEMOLITION SECTION 6 -STEP-A.2

SCALE: 5/64" = 1'-0"



DEMOLITION SECTION 5 -STEP-A.1

SCALE: 5/64" = 1'-0"



DEMOLITION SECTION 5 -STEP-A.2

SCALE: 5/64" = 1'-0"

SEQUENCE OF DEMOLITION:

PREPARATION WORK:

1. INSTALL PROTECTIONS AS SHOWN ON SAFETY ZONE PLAN ON DM-102.00
2. ACCESS AGREEMENT MUST BE OBTAINED IN ORDER TO INSTALL PROTECTIONS IN NEIGHBOR'S AREAS AS REQUIRED.
3. ALL MEANS OF EGRESS SHOULD BE CLEARED OF ANY OBSTRUCTION DEBRIS AT ALL TIMES.
4. THE DEMOLITION CONTRACTOR MUST REMOVE ALL HAZARDS SUCH AS DOORS, WINDOWS ETC PRIOR TO COMMENCEMENT OF DEMOLITION.
5. FIXTURES, CABINETS, CLOSETS, ETC MUST BE REMOVED PRIOR TO DEMOLITION WORK.
6. ALL ROOFING MATERIALS MUST BE HAND TOOL REMOVED. ALL GUTTERS LEADERS, WEATHERPROOFING AND SHEATHING MATERIAL, METAL FLASHING AND COUNTER-FLASHING MUST BE REMOVED BY HAND.
7. ASBESTOS ABATEMENT IF REQUIRED MUST BE PERFORMED PRIOR TO COMMENCEMENT OF DEMOLITION OPERATIONS.
8. ALL WALL OPENINGS AT GRID LINE "H" MUST BE INFILL UNDER SEPARATE APPLICATION.

STEP-"A":
PHASE-1:

DEMOLITION OF ROOF 1 STORY STEEL FRAME BUILDING:

HAND TOOL REMOVAL BETWEEN GRID LINE "1" & "3"

A.1 FROM FRONT TO BACK HAND TOOL REMOVE WOOD RAFTER ASSISTED WITH MOVABLE SCAFFOLD AND LOWER IT TO GRADE LEVEL.
A.2 HAND TOOL REMOVE 3"x10" WOOD RIDGE BETWEEN GRID LINE "1" & "2" AS FOLLOWS:
A.2.1 INSTALL HEAVY DUTY MOVABLE SCAFFOLD.
A.2.2 GRAB THE PORTION OF 3"x10" WOOD RIDGE.
A.2.3 SAW CUT ON THE EDGE.
A.2.4 MANUALLY BRING DOWN THE PORTION OF RIDGE DOWN TO GRADE LEVEL.
A.3 HAND TOOL REMOVE WALL AT GRID LINE "1" ASSISTED WITH MOVABLE SCAFFOLD DOWN TO GRADE LEVEL
NOTE: NO PORTION OF BRICK WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME
A.4 HAND TOOL REMOVE STEEL TRUSS (WT:2000 LBS) AT GRID LINE "2" AND 3"x10" WOOD RIDGE BETWEEN GRID LINE "2" & "3" FOLLOWING THE SAME PROCEDURE FROM A.2.1 TO A.2.3.

HAND TOOL REMOVAL ASSISTED WITH EXCAVATOR:

A.5 HAND TOOL REMOVE 3"x10" WOOD RIDGE BETWEEN GRID LINE "3" & "4" AS FOLLOWS:
A.5.1 GRAB THE PORTION OF 3"x10" WOOD RIDGE.
A.5.2 SAW CUT ON THE EDGE ASSISTED WITH MOVABLE SCAFFOLD.
A.5.3 BRING DOWN THE PORTION OF RIDGE DOWN TO GRADE LEVEL ASSISTED WITH EXCAVATOR.
A.6 REPEAT THE SAME PROCEDURE FROM A.5.1 TO A.5.3 FOR REMOVAL OF REMAINING COMPLETED STEEL TRUSSES ONE BY ONE (WEIGHT: APROX. 2000LB EACH TRUSS) AND 3"x10" WOOD RIDGE.

NOTE: PROVIDE TEMPORARY LATERAL SUPPORT FOR LAST STEEL TRUSS TO PREVENT TOPPLING.

A.7 HAND TOOL REMOVE WALL AT GRID LINE "27" ASSISTED WITH MOVABLE SCAFFOLD DOWN TO GRADE LEVEL UNTIL ALL WALLS ARE REMOVED.
NOTE: NO PORTION OF BRICK WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION
APR 25 2019
NAWEED CHAUDHRI

ENGINEER
HTO
ENGINEERING, DPC
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LONG ISLAND CITY, NY 11101
T: (347) 639-0669

PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

ROOF DEMOLITION SECTIONS (PHASE-1) STEP "A"

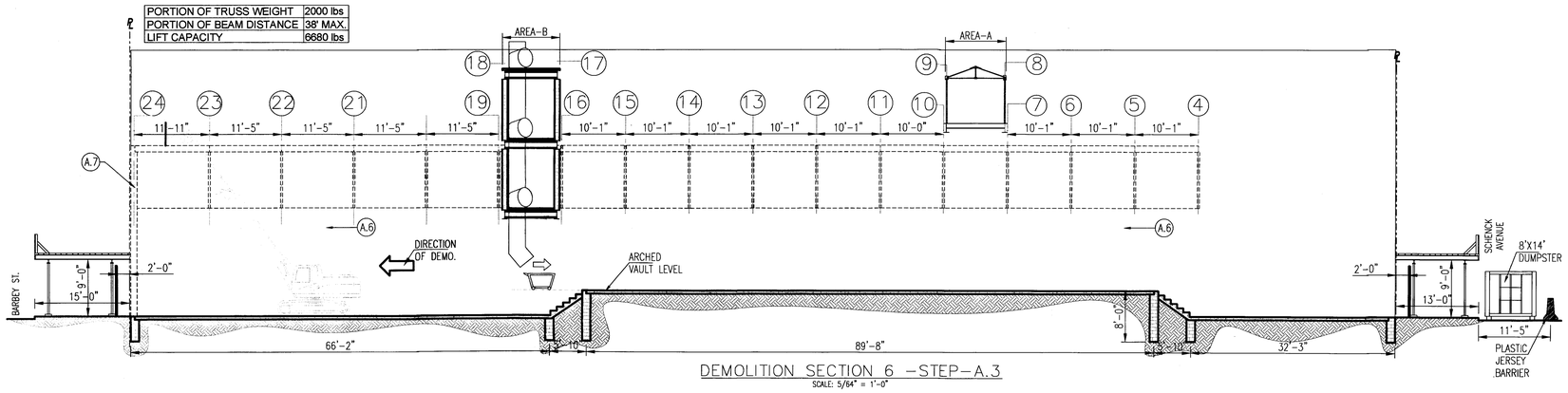
SEAL & SIGNATURE

STATE OF NEW YORK · SANTIAGO E. HOYOS · LICENSED PROFESSIONAL ENGINEER

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-105.00

SHEET 6 OF 34

DEPT BLDGS Job No.: 321836778
Scan Code ESHS9898806



DEMOLITION SECTION 6 -STEP-A.3

SCALE: 5/64" = 1'-0"

SEQUENCE OF DEMOLITION:

PREPARATION WORK:

1. INSTALL PROTECTIONS AS SHOWN ON SAFETY ZONE PLAN ON DM-102.00
2. ACCESS AGREEMENT MUST BE OBTAINED IN ORDER TO INSTALL PROTECTIONS IN NEIGHBOR'S AREAS AS REQUIRED.
3. ALL MEANS OF EGRESS SHOULD BE CLEARED OF ANY OBSTRUCTION DEBRIS AT ALL TIMES.
4. THE DEMOLITION CONTRACTOR MUST REMOVE ALL HAZARDS SUCH AS DOORS, WINDOWS ETC PRIOR TO COMMENCEMENT OF DEMOLITION.
5. FIXTURES, CABINETS, CLOSETS, ETC MUST BE REMOVED PRIOR TO DEMOLITION WORK.
6. ALL ROOFING MATERIALS MUST BE HAND TOOL REMOVED. ALL GUTTERS LEADERS, WEATHERPROOFING AND SHEATHING MATERIAL, METAL FLASHING AND COUNTER-FLASHING MUST BE REMOVED BY HAND.
7. ASBESTOS ABATEMENT IF REQUIRED MUST BE PERFORMED PRIOR TO COMMENCEMENT OF DEMOLITION OPERATIONS.
8. ALL WALL OPENINGS AT GRID LINE "H" MUST BE INFILL UNDER SEPARATE APPLICATION.

STEP-"A":
PHASE-1:

DEMOLITION OF ROOF 1 STORY STEEL FRAME BUILDING:

HAND TOOL REMOVAL BETWEEN GRID LINE "1" & "3"

A.1 FROM FRONT TO BACK HAND TOOL REMOVE WOOD RAFTER ASSISTED WITH MOVABLE SCAFFOLD AND LOWER IT TO GRADE LEVEL.
A.2 HAND TOOL REMOVE 3"x10" WOOD RIDGE BETWEEN GRID LINE "1" & "2" AS FOLLOWS:
A.2.1 INSTALL HEAVY DUTY MOVABLE SCAFFOLD.
A.2.2 GRAB THE PORTION OF 3"x10" WOOD RIDGE.
A.2.3 SAW CUT ON THE EDGE.
A.2.4 MANUALLY BRING DOWN THE PORTION OF RIDGE DOWN TO GRADE LEVEL.
A.3 HAND TOOL REMOVE WALL AT GRID LINE "1" ASSISTED WITH MOVABLE SCAFFOLD DOWN TO GRADE LEVEL
NOTE: NO PORTION OF BRICK WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME
A.4 HAND TOOL REMOVE STEEL TRUSS (WT:2000 LBS) AT GRID LINE "2" AND 3"x10" WOOD RIDGE BETWEEN GRID LINE "2" & "3" FOLLOWING THE SAME PROCEDURE FROM A.2.1 TO A.2.3.

HAND TOOL REMOVAL ASSISTED WITH EXCAVATOR:

A.5 HAND TOOL REMOVE 3"x10" WOOD RIDGE BETWEEN GRID LINE "3" & "4" AS FOLLOWS:
A.5.1 GRAB THE PORTION OF 3"x10" WOOD RIDGE.
A.5.2 SAW CUT ON THE EDGE ASSISTED WITH MOVABLE SCAFFOLD.
A.5.3 BRING DOWN THE PORTION OF RIDGE DOWN TO GRADE LEVEL ASSISTED WITH EXCAVATOR.
A.6 REPEAT THE SAME PROCEDURE FROM A.5.1 TO A.5.3 FOR REMOVAL OF REMAINING COMPLETED STEEL TRUSSES ONE BY ONE (WEIGHT: APROX. 2000LB EACH TRUSS) AND 3"x10" WOOD RIDGE.

NOTE: PROVIDE TEMPORARY LATERAL SUPPORT FOR LAST STEEL TRUSS TO PREVENT TOPPLING.

A.7 HAND TOOL REMOVE WALL AT GRID LINE "27" ASSISTED WITH MOVABLE SCAFFOLD DOWN TO GRADE LEVEL UNTIL ALL WALLS ARE REMOVED.
NOTE: NO PORTION OF BRICK WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION/SIC
APR 25 2019
NAWEED CHAUDHRI

ENGINEER

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ENGINEERING, DPC
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LONG ISLAND CITY, NY 11101
T: (347) 639-0669

PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

ROOF DEMOLITION SECTIONS (PHASE-1) STEP "A"

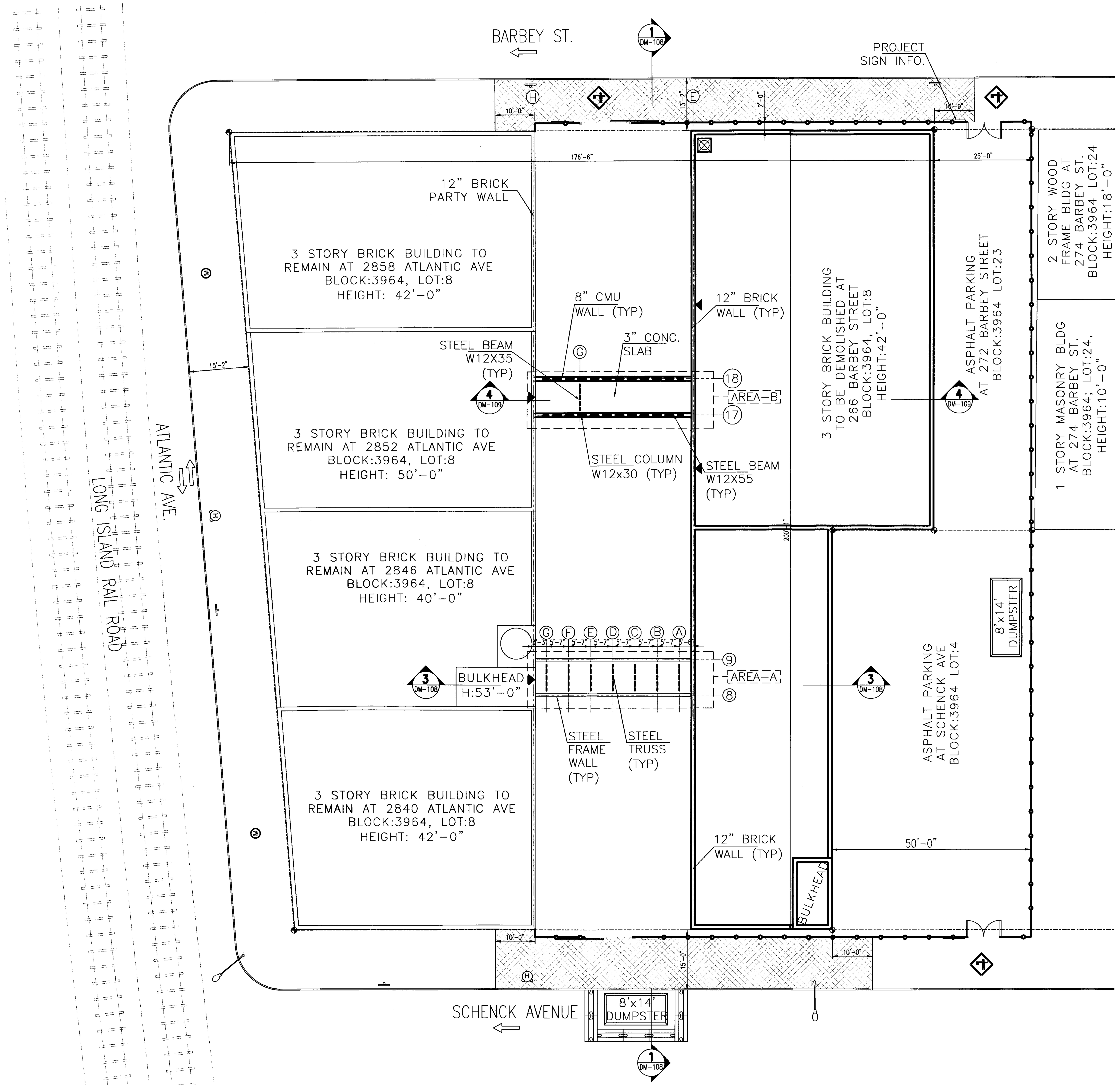
SEAL & SIGNATURE

JAMSHED E. HUNAN — STATE OF NEW YORK — LICENSED PROFESSIONAL ENGINEER

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-106.00

SHEET 7 OF 34

DEPT BLDGS Job No: 321836778
Scan Code ESHS9797906



ROOF DEMOLITION PLAN AREA–A&B (ROOF)

SCALE: 1/16"= 1'-0"

SEQUENCE OF DEMOLITION:

STEP-"B":

AREA-A:

DEMOLITION OF ROOF 1 STORY STEEL FRAME BRIDGE:

B.1 HAND TOOL REMOVE STEEL BRIDGE (WT:20,000 LBS) BETWEEN GRID LINE "8" & "9" AS FOLLOWS:
- B.1.1 GRAB THE STEEL BRIDGE USING CRANE.
- B.1.2 BURN CUT ON THE EDGE ASSISTED WITH MOVABLE SCAFFOLD.
- B.1.3 BRING DOWN THE STEEL BRIDGE DOWN TO GRADE LEVEL ASSISTED WITH CRANE.
- NOTE : TAG LINE MUST BE USED TO SUPPORT THE REMOVAL OF THE STEEL BRIDGE AND TO AVOID ANY DAMAGE TO THE ADJACENT BUILDINGS.

B.2 PARGE AND WEATHERPROOF ALL EXPOSED WALLS (SEE DETAIL 2 ON DM-200).

AREA-B:

DEMOLITION OF ROOF 2 STORY MASONRY BRIDGE:

ROOF LEVEL:

C.1 HAND TOOL REMOVE CONCRETE SLAB.

C.2 FROM SOUTH TO NORTH HAND TOOL REMOVE LATERAL WALL ASSISTED WITH MOVABLE SCAFFOLD TO GRADE LEVEL UNTIL ALL WALLS ARE REMOVED.
NOTE: NO PORTION OF WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME

C.3 HAND TOOL REMOVE STEEL BEAM (L= 25 FT.) AT GRID LINE "17" BETWEEN GRID LINE "E" & "G" AS FOLLOWS:
- C.3.1 GRAB THE STEEL BEAM USING EXCAVATOR.
- C.3.2 BURN CUT ON THE EDGE ASSISTED WITH MOVABLE SCAFFOLD.
- C.3.3 BRING DOWN THE STEEL BRIDGE DOWN TO GRADE LEVEL ASSISTED WITH EXCAVATOR.
- NOTE : TAG LINE MUST BE USED TO SUPPORT THE REMOVAL OF THE STEEL BRIDGE AND TO AVOID ANY DAMAGE TO THE ADJACENT BUILDINGS.
- C.3.4 REPEAT THE SAME PROCEDURE FROM C.3.1 TO C.3.3 FOR REMOVAL OF STEEL BEAM BETWEEN GRID LINE "G" & "H".
- C.3.5 REPEAT THE SAME PROCEDURE C.3.4 FOR REMOVAL OF STEEL BEAM AT GIRD LINE "18" THEN "G" ONE BEAM AT A TIME.

C.4 REMOVE STEEL COLUMNS:
- C.4.1. USING EXCAVATOR, TIE THE STEEL COLUMN AT GRID LINE "17".
- C.4.2. BURN CUT ON THE EDGE
- C.4.3. BRING DOWN THE STEEL COLUMN TO GRADE LEVEL.
- C.4.4. CONTINUE WITH NEXT STEEL COLUMN AT GRID LINE "18" FOLLOWING THE SAME PROCEDURE FROM (C.4.1 TO C.4.3) .

C.5 PARGE AND WEATHERPROOF ALL EXPOSED WALLS (SEE DETAIL 2 ON DM-200).

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS APPROVED DEMOLITION/CSC
APR 25 2019
NAWEED CHAUDHRI

ENGINEER

H+O ENGINEERING, DPC
44-02 11TH STREET, OFFICE 406
LONG ISLAND CITY, NY 11101
T: (347) 639-0669

PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

ROOF DEMOLITION PLAN (AREA A & B) STEP "B" & "C"

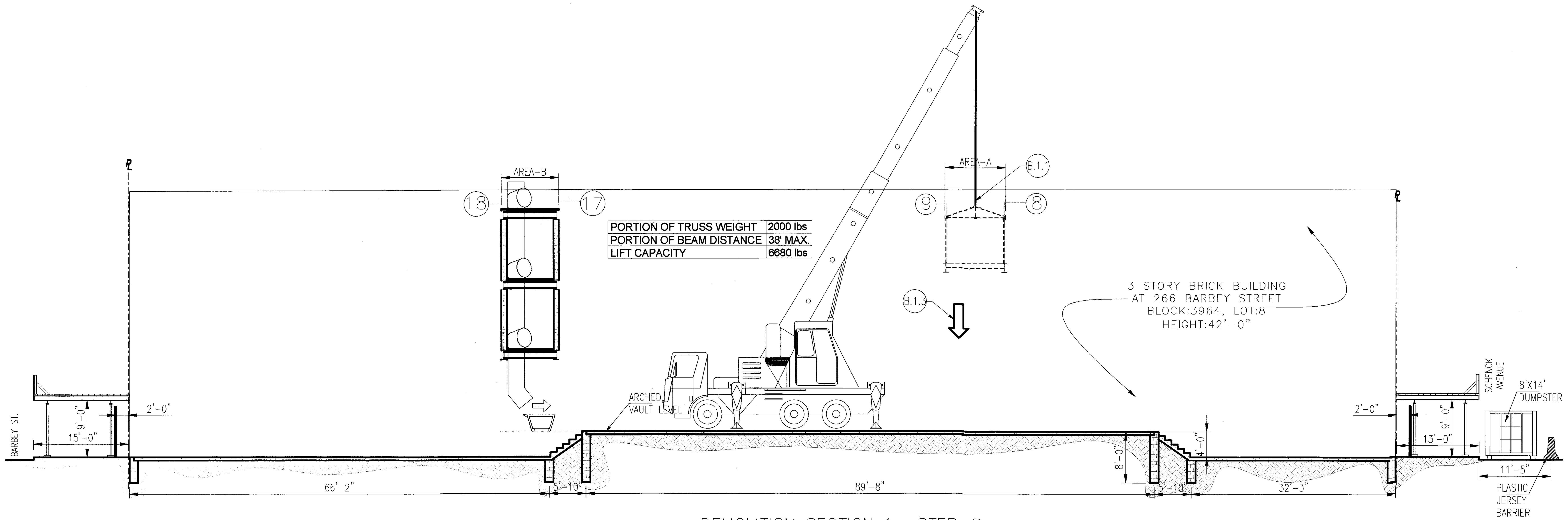
SEAL & SIGNATURE

STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER

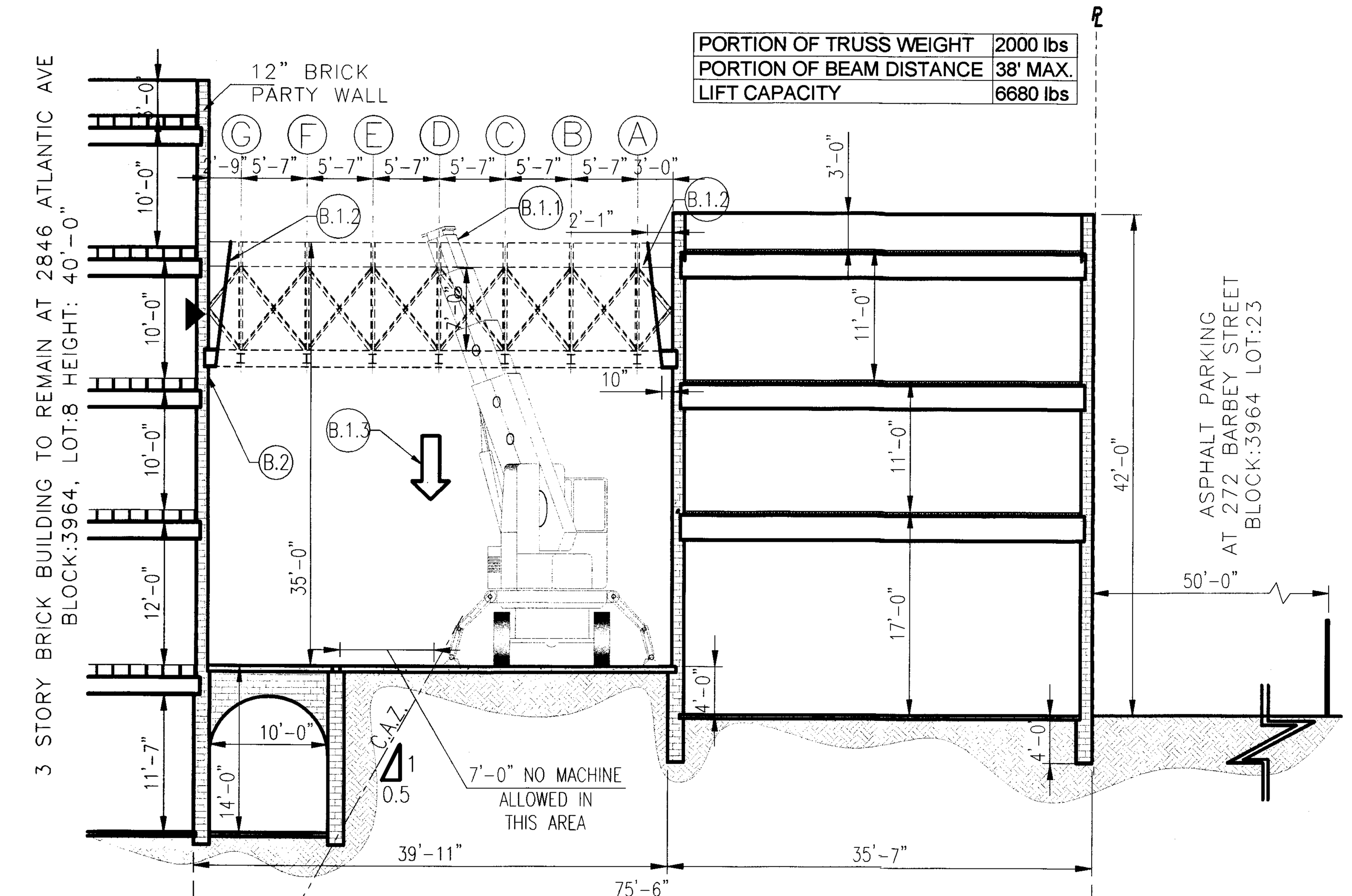
DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-107.00

SHEET 8 OF 34

DEPT BLDGS Job No. 321636778
Scan Code ESHS4338032



DEMOLITION SECTION 1 -STEP-B
SCALE: 5/64" = 1'-0"



DEMOLITION SECTION 3 -STEP-B
SCALE: 5/64" = 1'-0"

SEQUENCE OF DEMOLITION:

STEP-"B":

AREA-A:

DEMOLITION OF ROOF 1 STORY STEEL FRAME BRIDGE:

B.1 HAND TOOL REMOVE STEEL BRIDGE (WT:20,000 LBS) BETWEEN GRID LINE "8" & "9" AS FOLLOWS:
- B.1.1 GRAB THE STEEL BRIDGE USING CRANE.
- B.1.2 BURN CUT ON THE EDGE ASSISTED WITH MOVABLE SCAFFOLD.
- B.1.3 BRING DOWN THE STEEL BRIDGE DOWN TO GRADE LEVEL ASSISTED WITH CRANE.
- NOTE : TAG LINE MUST BE USED TO SUPPORT THE REMOVAL OF THE STEEL BRIDGE AND TO AVOID ANY DAMAGE TO THE ADJACENT BUILDINGS.

B.2 PARGE AND WEATHERPROOF ALL EXPOSED WALLS (SEE DETAIL 2 ON DM-200).

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION/CSC
APR 25 2019
NAWEED CHAUDHRI

ENGINEER

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PROJECT ADDRESS

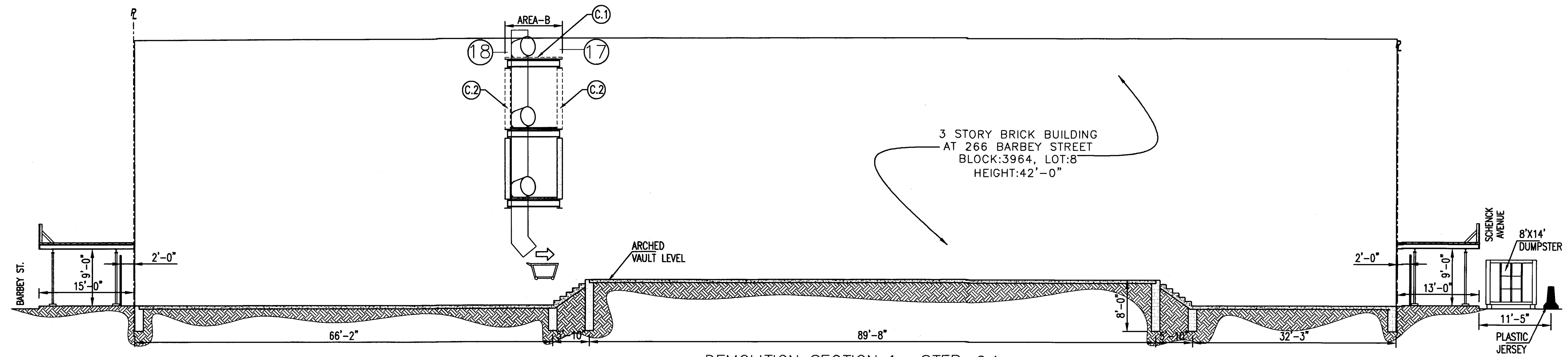
266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

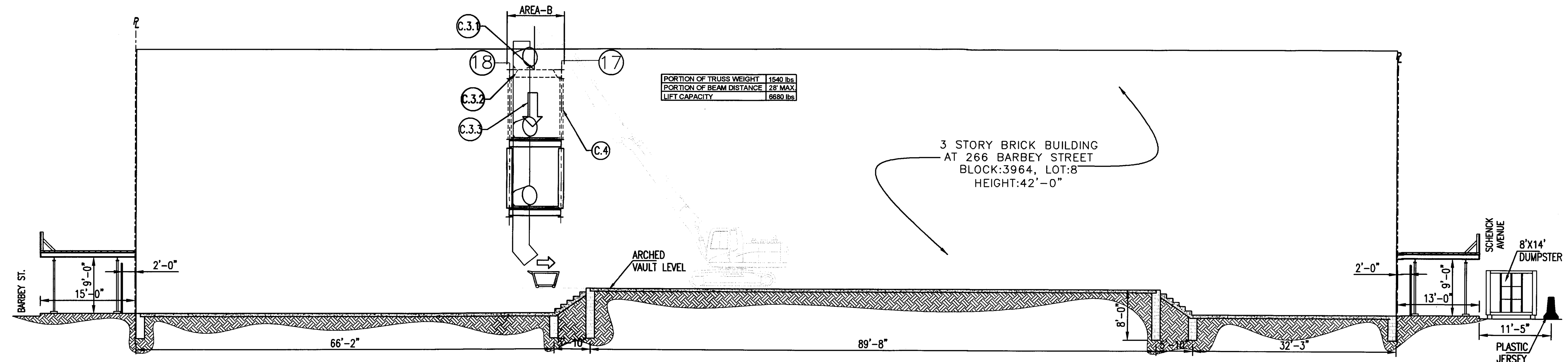
ROOF DEMOLITION SECTIONS (AREA-A) STEP "B"

SEAL & SIGNATURE

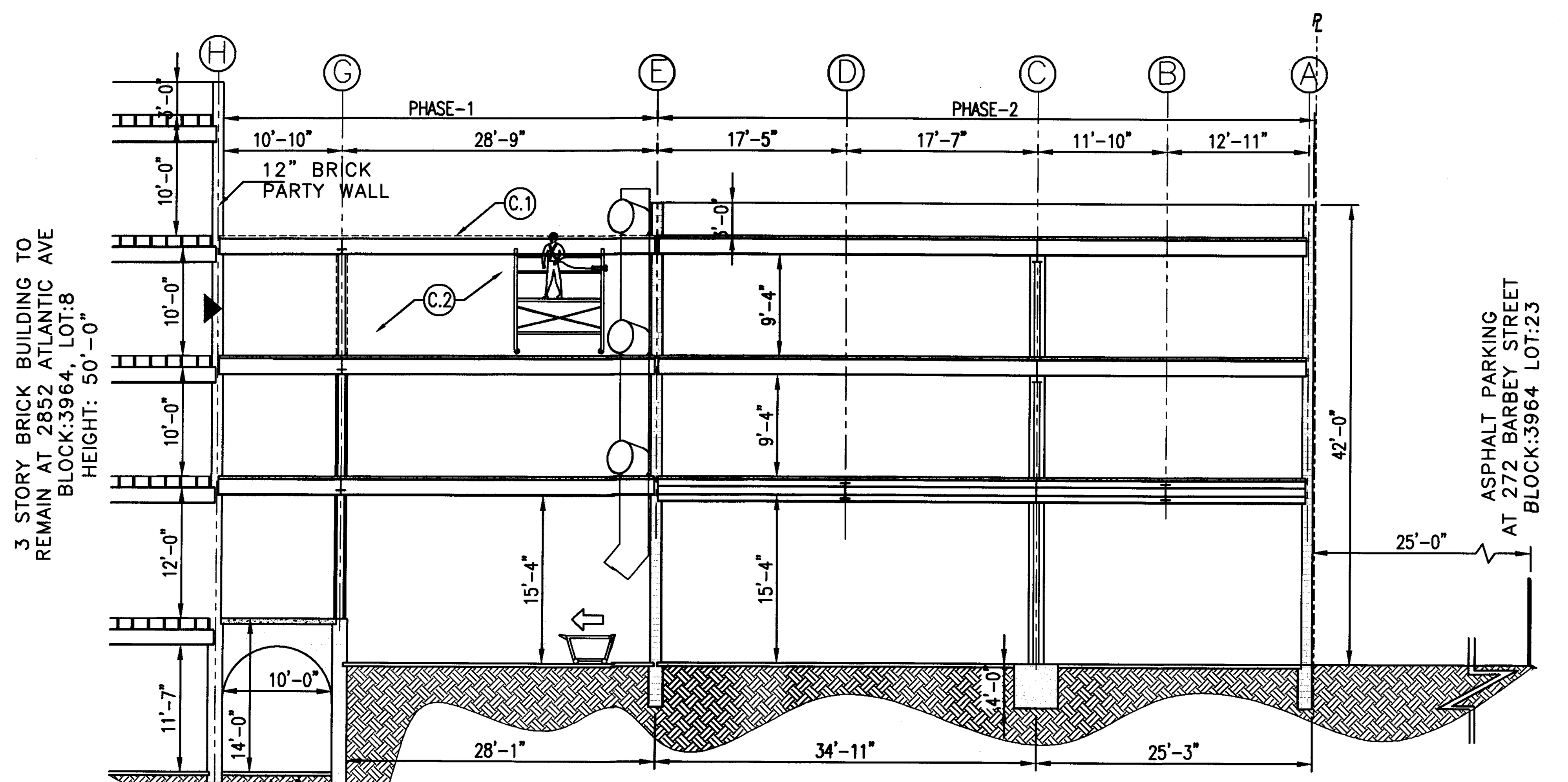
DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-108.00



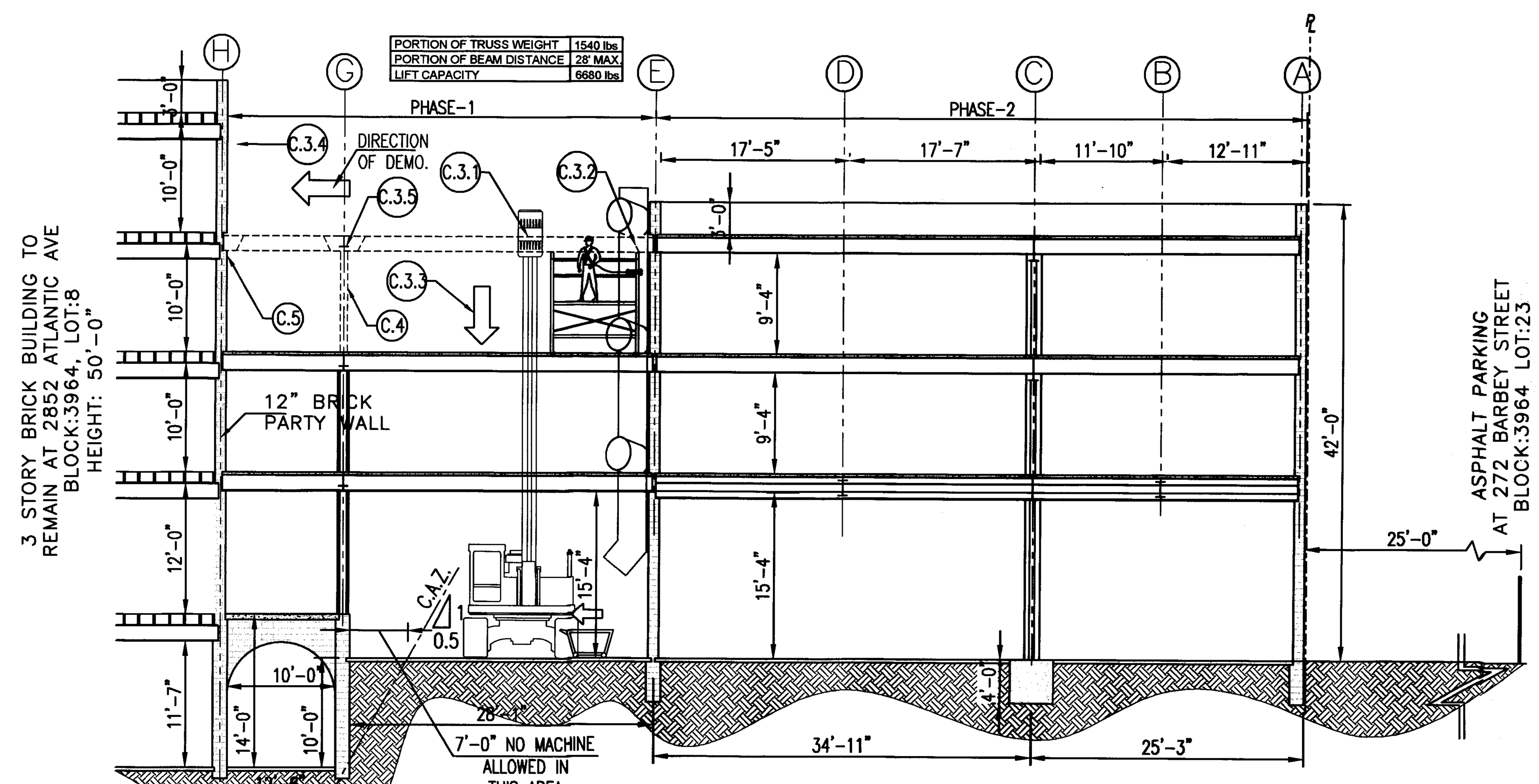
DEMOLITION SECTION 1 -STEP-C.1
SCALE: 5/64" = 1'-0"



DEMOLITION SECTION 1 -STEP-C.2
SCALE: 5/64" = 1'-0"



DEMOLITION SECTION 4 -STEP-C.1
SCALE: 5/64" = 1'-0"



DEMOLITION SECTION 4 -STEP-C.2
SCALE: 5/64" = 1'-0"

SEQUENCE OF DEMOLITION:

AREA-B:

DEMOLITION OF ROOF 2 STORY MASONRY BRIDGE:

ROOF LEVEL:

C.1 HAND TOOL REMOVE CONCRETE SLAB.

C.2 FROM SOUTH TO NORTH HAND TOOL REMOVE LATERAL WALL ASSISTED WITH MOVABLE SCAFFOLD TO GRADE LEVEL UNTIL ALL WALLS ARE REMOVED.
NOTE: NO PORTION OF WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME

C.3 HAND TOOL REMOVE STEEL BEAM (L= 25 FT.) AT GRID LINE "17" BETWEEN GRID LINE "E" & "G" AS FOLLOWS:
C.3.1 GRAB THE STEEL BEAM USING EXCAVATOR.
C.3.2 BURN CUT ON THE EDGE ASSISTED WITH MOVABLE SCAFFOLD.
C.3.3 BRING DOWN THE STEEL BRIDGE DOWN TO GRADE LEVEL ASSISTED WITH EXCAVATOR.
NOTE : TAG LINE MUST BE USED TO SUPPORT THE REMOVAL OF THE STEEL BRIDGE AND TO AVOID ANY DAMAGE TO THE ADJACENT BUILDINGS.
C.3.4 REPEAT THE SAME PROCEDURE FROM C.3.1 TO C.3.3 FOR REMOVAL OF STEEL BEAM BETWEEN GRID LINE "G" & "H".
C.3.5 REPEAT THE SAME PROCEDURE C.3.4 FOR REMOVAL OF STEEL BEAM AT GIRD LINE "18" THEN "G" ONE BEAM AT A TIME.

C.4 REMOVE STEEL COLUMNS:

C.4.1. USING EXCAVATOR, TIE THE STEEL COLUMN AT GRID LINE "17".
C.4.2. BURN CUT ON THE EDGE
C.4.3. BRING DOWN THE STEEL COLUMN TO GRADE LEVEL.
C.4.4. CONTINUE WITH NEXT STEEL COLUMN AT GRID LINE "18" FOLLOWING THE SAME PROCEDURE FROM (C.4.1 TO C.4.3) .

C.5 PARGE AND WEATHERPROOF ALL EXPOSED WALLS (SEE DETAIL 2 ON DM-200).

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION/CSC
APR 25 2019
NAWEED CHAUDHRI

ENGINEER

H+O ENGINEERING, DPC
44-02 11TH STREET, OFFICE 406
LONG ISLAND CITY, NY 11101
T: (347) 639-0669

PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

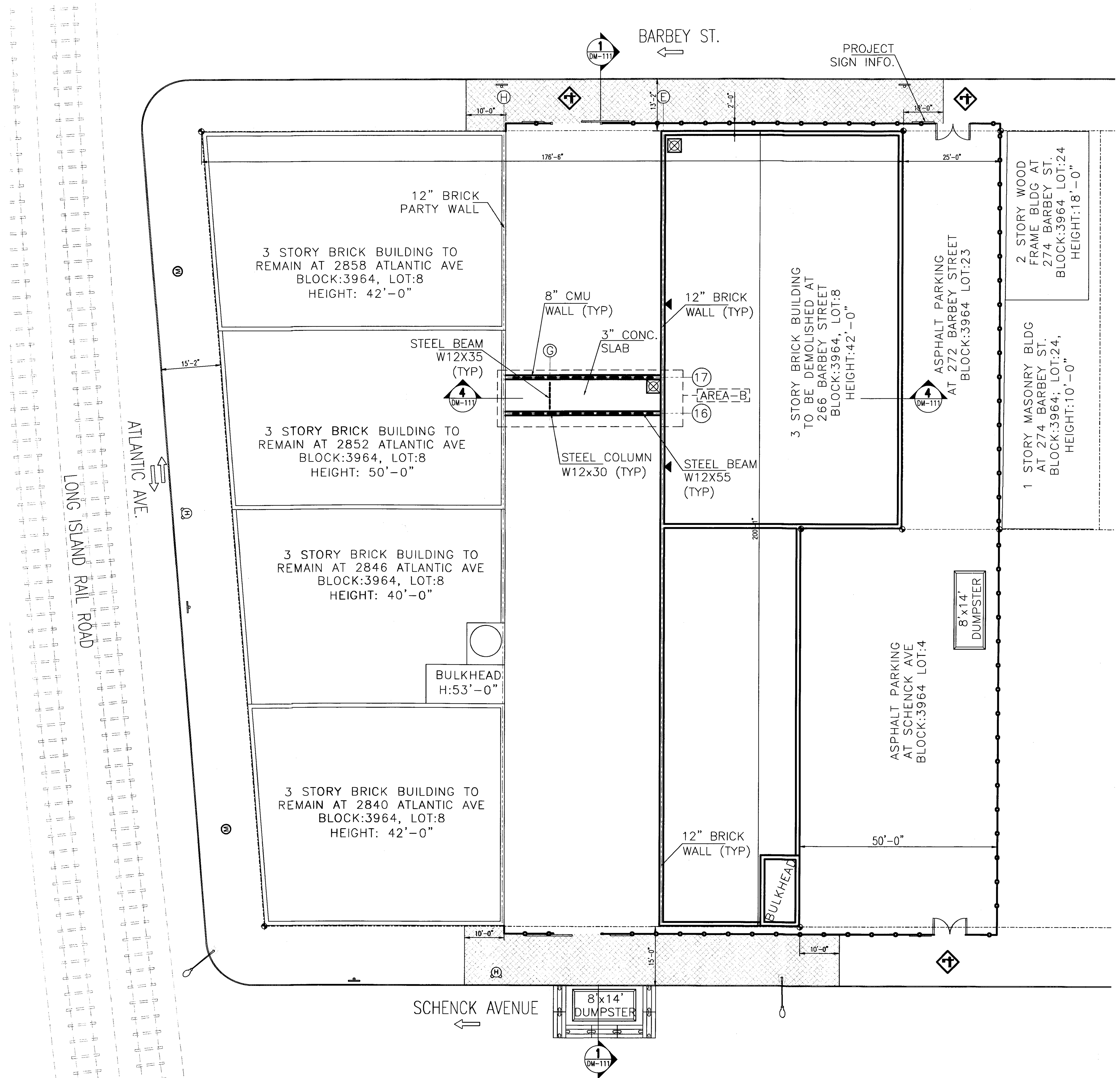
ROOF DEMOLITION SECTIONS (AREA - B) STEP "C"

SEAL & SIGNATURE

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-109.00

SHEET 10 OF 34

DEPT BLDGS Job No. 321836778
Scan Code ESHS9421304



3RD FLOOR DEMOLITION PLAN AREA-B

SCALE: 1/16"= 1'-0"

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

SEQUENCE OF DEMOLITION:

3RD FLOOR LEVEL:

D.1 HAND TOOL REMOVE CONCRETE SLAB.

D.2 FROM SOUTH TO NORTH HAND TOOL REMOVE LATERAL WALL ASSISTED WITH MOVABLE TO GRADE LEVEL UNTIL ALL WALLS ARE REMOVED.
NOTE: NO PORTION OF WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME

D.3 HAND TOOL REMOVE PORTION STEEL BEAM AT GRID LINE "17" BETWEEN GRID LINE "E" & "G" AS FOLLOWS:
D.3.1 GRAB THE STEEL BEAM USING EXCAVATOR.
D.3.2 BURN CUT ON THE EDGE ASSISTED WITH MOVABLE SCAFFOLD.
D.3.3 BRING DOWN THE STEEL BRIDGE DOWN TO GRADE LEVEL ASSISTED WITH EXCAVATOR.
NOTE : TAG LINE MUST BE USED TO SUPPORT THE REMOVAL OF THE STEEL BRIDGE AND TO AVOID ANY DAMAGE TO THE ADJACENT BUILDINGS.
D.3.4 REPEAT THE SAME PROCEDURE FROM (D.3.1 TO D.3.3) FOR REMOVAL OF STEEL BEAM BETWEEN GRID LINE "G" & "H".
D.3.5 REPEAT THE SAME PROCEDURE FROM (D.3.1 TO D.3.3) FOR REMOVAL OF STEEL BEAM AT GIRD LINE "18" THEN "G" ONE BEAM AT A TIME.

D.4 REMOVE STEEL COLUMNS:

D.4.1. USING EXCAVATOR, TIE THE STEEL COLUMN AT GRID LINE "17".
D.4.2. BURN CUT ON THE EDGE
D.4.3. BRING DOWN THE STEEL COLUMN TO GRADE LEVEL.
D.4.4. CONTINUE WITH NEXT STEEL COLUMN AT GRID LINE "18" FOLLOWING THE SAME PROCEDURE FROM (D.4.1 TO D.4.3) .

D.5 PARGE AND WEATHERPROOF ALL EXPOSED WALLS (SEE DETAIL 2 ON DM-200).

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION/OSC
APR 25 2019
NAWEED CHAUDHRI

ENGINEER

H+O ENGINEERING, DPC
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LONG ISLAND CITY, NY 11101
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PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

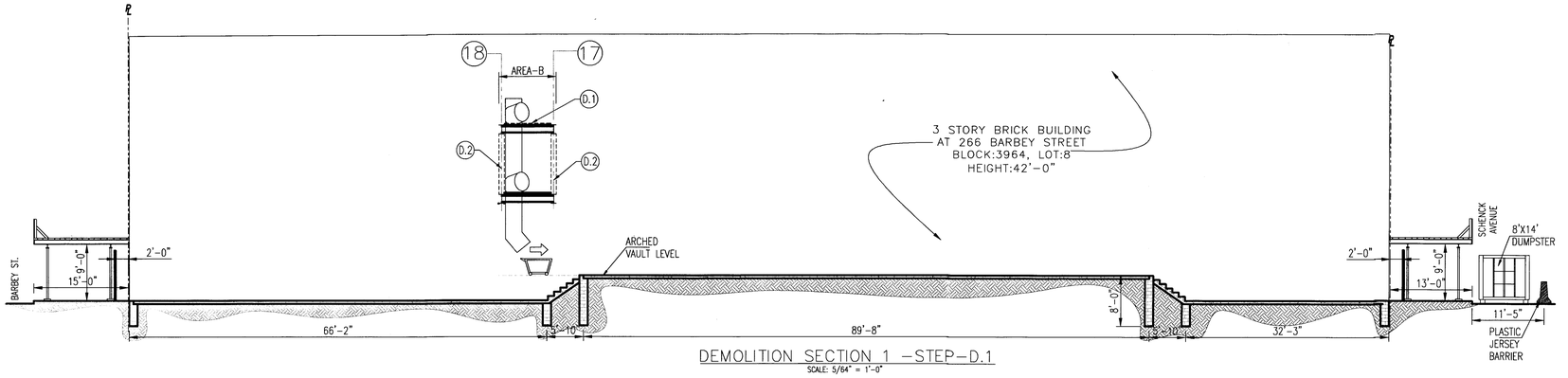
3RD FLOOR DEMOLITION PLAN (AREA-B) STEP "D"

SEAL & SIGNATURE

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-110.00

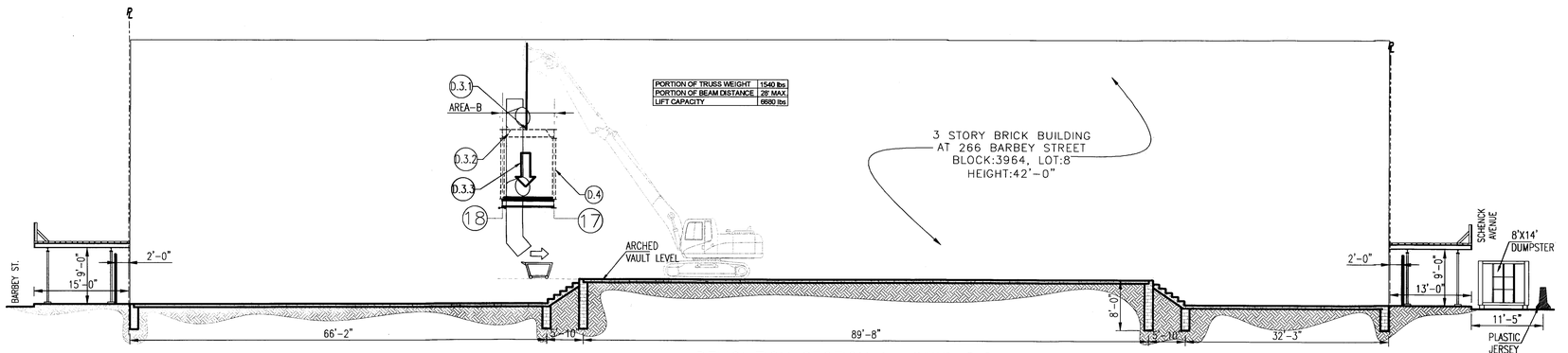
SHEET 11 OF 34

DEPT BLDGS Job No. 321836778
Scan Code ESHS0841367



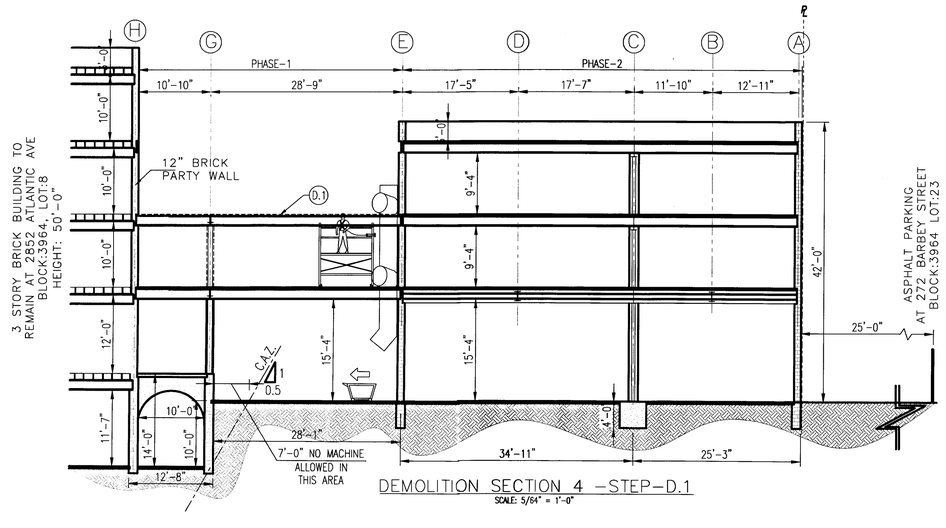
DEMOLITION SECTION 1 –STEP–D.1

SCALE: 5/64" = 1'-0"



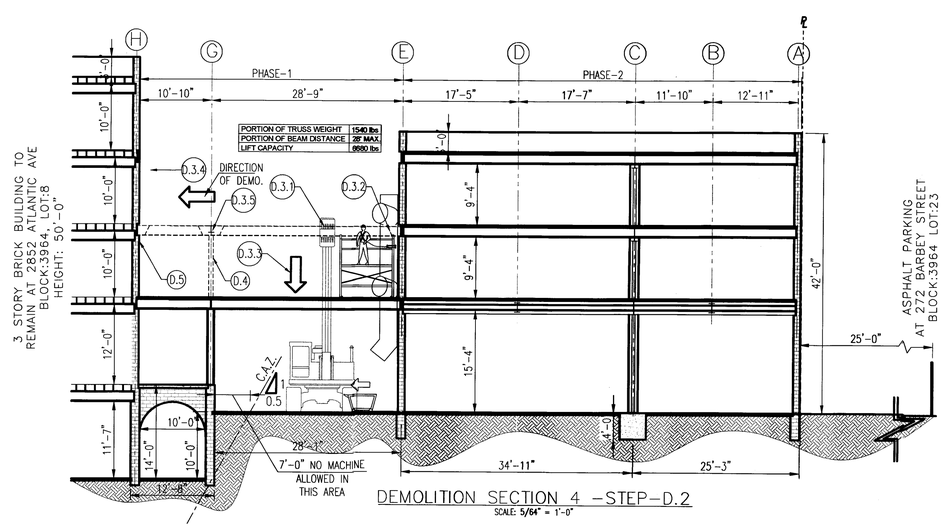
DEMOLITION SECTION 1 –STEP–D.2

SCALE: 5/64" = 1'-0"



DEMOLITION SECTION 4 –STEP–D.1

SCALE: 5/64" = 1'-0"



DEMOLITION SECTION 4 –STEP–D.2

SCALE: 5/64" = 1'-0"

SEQUENCE OF DEMOLITION:

3RD FLOOR LEVEL:

D.1 HAND TOOL REMOVE CONCRETE SLAB.

D.2 FROM SOUTH TO NORTH HAND TOOL REMOVE LATERAL WALL ASSISTED WITH MOVABLE TO GRADE LEVEL UNTIL ALL WALLS ARE REMOVED.
NOTE: NO PORTION OF WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME.

D.3 HAND TOOL REMOVE PORTION STEEL BEAM AT GRID LINE "17" BETWEEN GRID LINE "E" & "G" AS FOLLOWS:
D.3.1 GRAB THE STEEL BEAM USING EXCAVATOR.
D.3.2 BURN CUT ON THE EDGE ASSISTED WITH MOVABLE SCAFFOLD.
D.3.3 BRING DOWN THE STEEL BRIDGE DOWN TO GRADE LEVEL ASSISTED WITH EXCAVATOR.
NOTE : TAG LINE MUST BE USED TO SUPPORT THE REMOVAL OF THE STEEL BRIDGE AND TO AVOID ANY DAMAGE TO THE ADJACENT BUILDINGS.
D.3.4 REPEAT THE SAME PROCEDURE FROM (D.3.1 TO D.3.3) FOR REMOVAL OF STEEL BEAM BETWEEN GRID LINE "G" & "H".
D.3.5 REPEAT THE SAME PROCEDURE FROM (D.3.1 TO D.3.3) FOR REMOVAL OF STEEL BEAM AT GIRD LINE "18" THEN "G" ONE BEAM AT A TIME.

D.4 REMOVE STEEL COLUMNS:

D.4.1. USING EXCAVATOR, TIE THE STEEL COLUMN AT GRID LINE "17".
D.4.2. BURN CUT ON THE EDGE
D.4.3. BRING DOWN THE STEEL COLUMN TO GRADE LEVEL.
D.4.4. CONTINUE WITH NEXT STEEL COLUMN AT GRID LINE "18" FOLLOWING THE SAME PROCEDURE FROM (D.4.1 TO D.4.3) .

D.5 PARGE AND WEATHERPROOF ALL EXPOSED WALLS (SEE DETAIL 2 ON DM-200).

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION
APR 25 2019
NAWEED CHAUDHRI

ENGINEER

ENGINEERING, DPC
44-02 11TH STREET, OFFICE 406
LONG ISLAND CITY, NY 11101
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PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

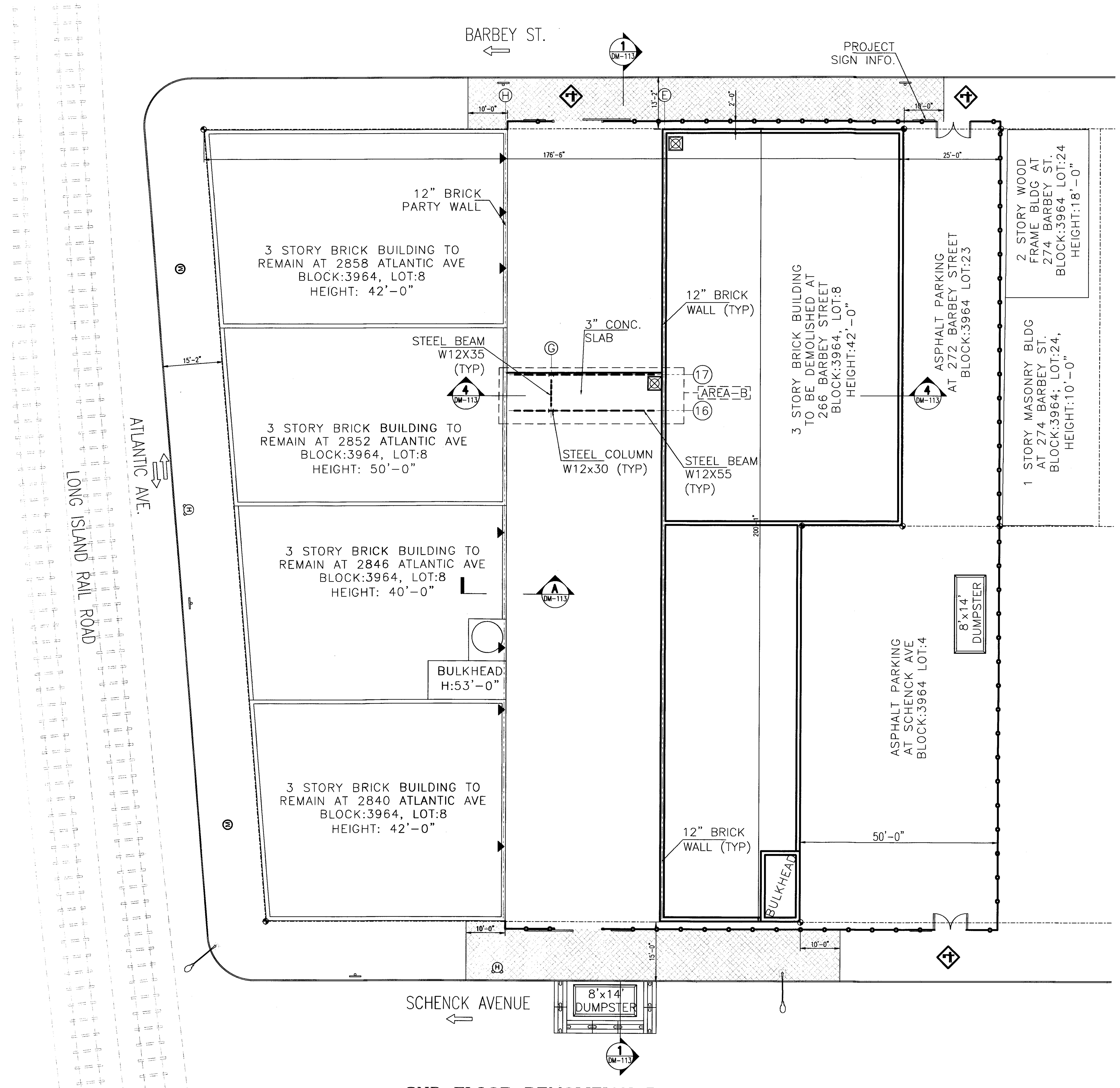
3RD FLOOR
DEMOLITION
SECTIONS (AREA-B)
STEP "D"

SEAL & SIGNATURE

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-111.00

SHEET 12 OF 34

DEP7 88208 Job No. 321836778
Scan Code ESHS9536760



2ND FLOOR DEMOLITION PLAN AREA-B

SCALE: 1/16"= 1'-0"

SEQUENCE OF DEMOLITION:

2ND FLOOR LEVEL:

NOTE: CMU WALL OPENINGS MUST BE INFILL BEFORE START OF DEMOLITION. CMU INFILL DETAIL WILL BE FILED UNDER SEPARATE APPLICATION.

E.1 HAND TOOL REMOVE CONCRETE SLAB.

E.2 FROM SOUTH TO NORTH HAND TOOL REMOVE CONCRETE AROUND COLUMN ASSISTED WITH MOVABLE TO GRADE LEVEL.

E.3 HAND TOOL REMOVE PORTION STEEL BEAM AT GRID LINE "17" BETWEEN GRID LINE "E" & "G" AS FOLLOWS:

E.3.1 GRAB THE STEEL BEAM USING EXCAVATOR.

E.3.2 BURN CUT ON THE EDGE ASSISTED WITH MOVABLE SCAFFOLD.

E.3.3 BRING DOWN THE STEEL BRIDGE DOWN TO GRADE LEVEL ASSISTED WITH EXCAVATOR.

NOTE : TAG LINE MUST BE USED TO SUPPORT THE REMOVAL OF THE STEEL BRIDGE AND TO AVOID ANY DAMAGE TO THE ADJACENT BUILDINGS.

E.3.4 REPEAT THE SAME PROCEDURE FROM (E.3.1 TO E.3.3) FOR REMOVAL OF STEEL BEAM BETWEEN GRID LINE "G" & "H".

E.3.5 REPEAT THE SAME PROCEDURE FROM (E.3.1 TO E.3.3) FOR REMOVAL OF STEEL BEAM AT GIRD LINE "18" THEN "G" ONE BEAM AT A TIME.

E.4 REMOVE STEEL COLUMNS:

E.4.1. USING EXCAVATOR, TIE THE STEEL COLUMN AT GRID LINE "17".

E.4.2. BURN CUT ON THE EDGE

E.4.3. BRING DOWN THE STEEL COLUMN TO GRADE LEVEL.

E.4.4. CONTINUE WITH NEXT STEEL COLUMN AT GRID LINE "18" FOLLOWING THE SAME PROCEDURE FROM (E.4.1 TO E.4.3) .

E.5 INFILL MASONRY TO MATCH EXISTING AT REMAINING BEAM POCKET (SEE SECTION A ON DM-113).

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS APPROVED
APR 25 2019
NAWEED CHAUDHRI

ENGINEER

H-O ENGINEERING, DPC
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LONG ISLAND CITY, NY 11101
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PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

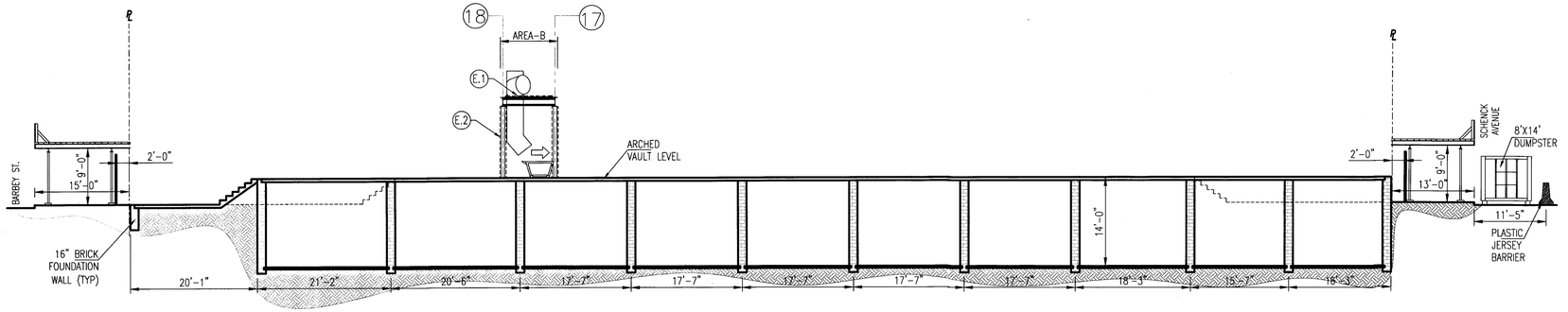
2ND FLOOR DEMOLITION PLAN (AREA-B) STEP "E"

SEAL & SIGNATURE

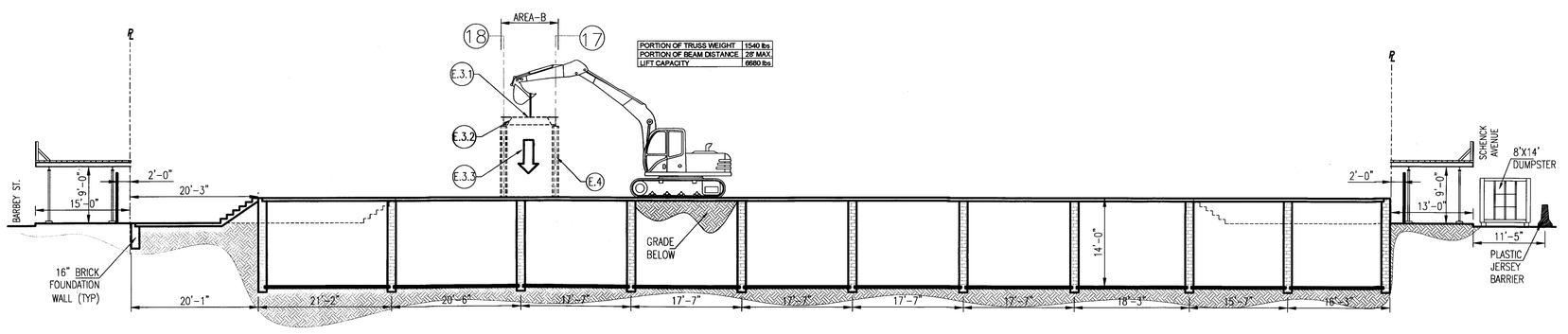
DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-112.00

SHEET 13 OF 34

DEPT BLDGS Job No. 321836778
Scan Code ESHS4731858



DEMOLITION SECTION 1 -STEP-E.1
SCALE: 5/64" = 1'-0"



DEMOLITION SECTION 1 -STEP-E.2
SCALE: 5/64" = 1'-0"

SEQUENCE OF DEMOLITION:

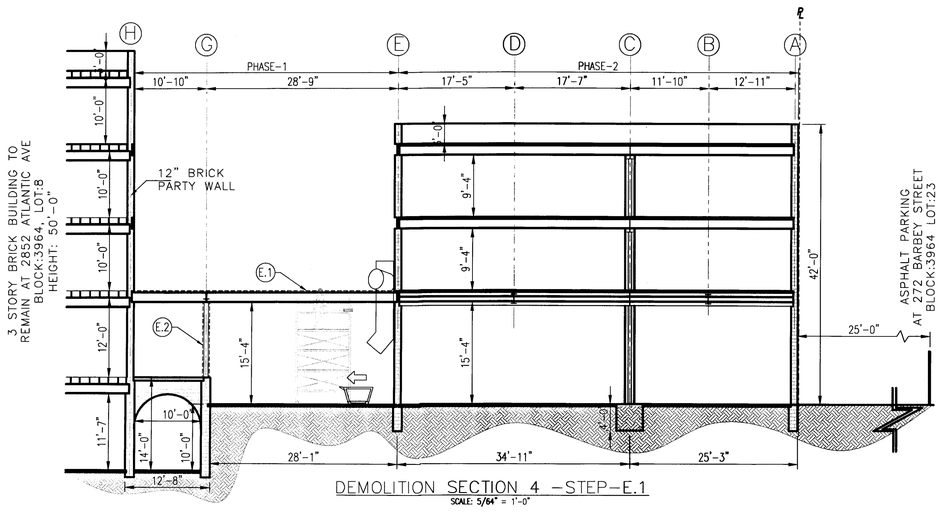
2ND FLOOR LEVEL:

NOTE: CMU WALL OPENINGS MUST BE INFILL BEFORE START OF DEMOLITION. CMU INFILL DETAIL WILL BE FILED UNDER SEPARATE APPLICATION.

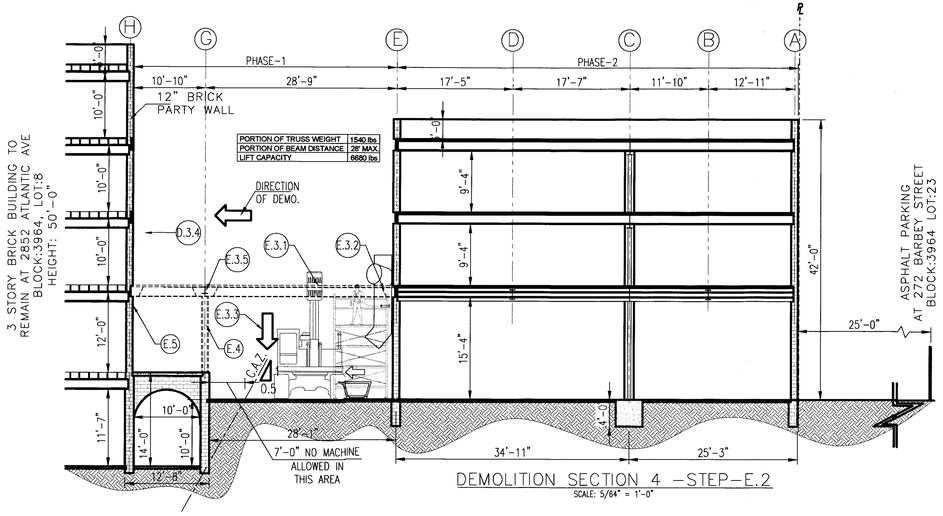
E.1 HAND TOOL REMOVE CONCRETE SLAB.
E.2 FROM SOUTH TO NORTH HAND TOOL REMOVE CONCRETE AROUND COLUMN ASSISTED WITH MOVABLE TO GRADE LEVEL.
E.3 HAND TOOL REMOVE PORTION STEEL BEAM AT GRID LINE "17" BETWEEN GRID LINE "E" & "G" AS FOLLOWS:
E.3.1 GRAB THE STEEL BEAM USING EXCAVATOR.
E.3.2 BURN CUT ON THE EDGE ASSISTED WITH MOVABLE SCAFFOLD.
E.3.3 BRING DOWN THE STEEL BRIDGE DOWN TO GRADE LEVEL ASSISTED WITH EXCAVATOR.
NOTE : TAG LINE MUST BE USED TO SUPPORT THE REMOVAL OF THE STEEL BRIDGE AND TO AVOID ANY DAMAGE TO THE ADJACENT BUILDINGS.
E.3.4 REPEAT THE SAME PROCEDURE FROM (E.3.1 TO E.3.3) FOR REMOVAL OF STEEL BEAM BETWEEN GRID LINE "G" & "H".
E.3.5 REPEAT THE SAME PROCEDURE FROM (E.3.1 TO E.3.3) FOR REMOVAL OF STEEL BEAM AT GIRD LINE "18" THEN "G" ONE BEAM AT A TIME.
E.4 REMOVE STEEL COLUMNS:

E.4.1. USING EXCAVATOR, TIE THE STEEL COLUMN AT GRID LINE "17".
E.4.2. BURN CUT ON THE EDGE
E.4.3. BRING DOWN THE STEEL COLUMN TO GRADE LEVEL.
E.4.4. CONTINUE WITH NEXT STEEL COLUMN AT GRID LINE "18" FOLLOWING THE SAME PROCEDURE FROM (E.4.1 TO E.4.3)
E.5 INFILL MASONRY TO MATCH EXISTING AT REMAINING BEAM POCKET (SEE SECTION A ON DM-113).

DEMOLITION SECTION A
SCALE: 5/64" = 1'-0"



DEMOLITION SECTION 4 -STEP-E.1
SCALE: 5/64" = 1'-0"



DEMOLITION SECTION 4 -STEP-E.2
SCALE: 5/64" = 1'-0"

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION/CSC
APR 25 2019
NAWED CHAUDHRI

ENGINEER

H+O ENGINEERING, DPC
44-02 11TH STREET, OFFICE 406
LONG ISLAND CITY, NY 11101
T: (347) 639-0669

PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

2ND FLOOR DEMOLITION SECTIONS (AREA-B) STEP "E"

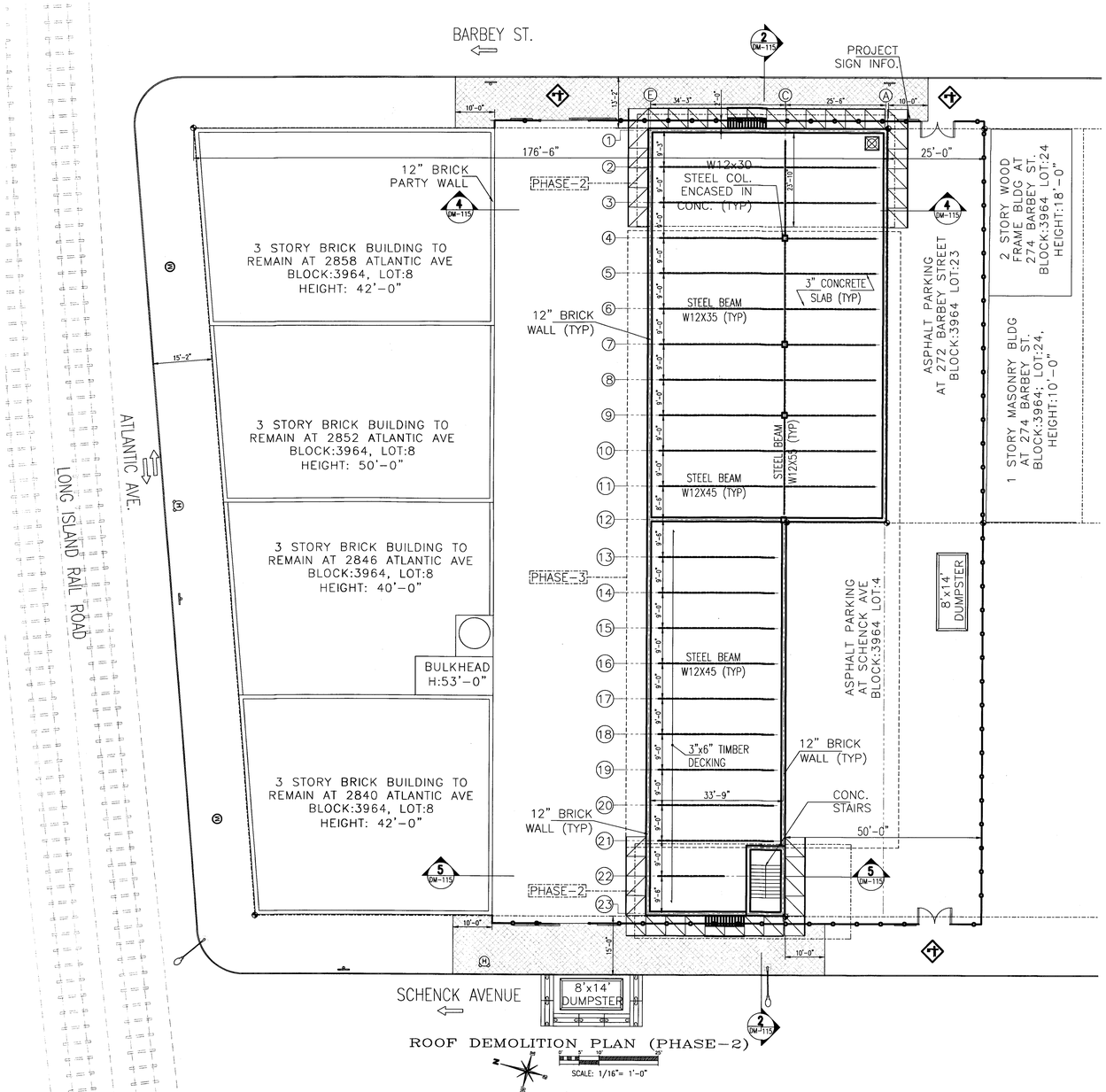
SEAL & SIGNATURE

STATE OF NEW YORK · MUKUND E. HEBBAR · LICENSED PROFESSIONAL ENGINEER

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-113.00

SHEET 14 OF 34

DEPT BLDGS Job No. 321836778
Scan Code ESHS4679895

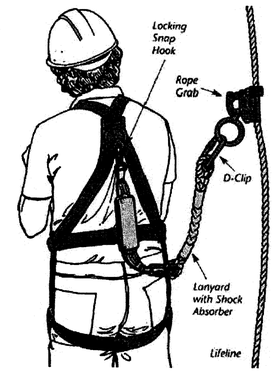


PERSONNEL SAFETY NOTES:

1. ALL PERSONNEL WORKING ON SCAFFOLD OR OPEN FLOORS AND HAND TOOL REMOVING WOOD OR STEEL JOIST MUST BE TIED UP TO COLUMNS USING A HARNESS.
2. CONTRACTOR SHALL IMPLEMENT CONVENTIONAL FALL PROTECTION SYSTEMS FOR WORKERS ACCORDING TO OSHA REQUIREMENTS.

NOTE:

1. NECESSARY ACCESS AGREEMENTS MUST BE OBTAINED PRIOR TO INSTALLATION OF REQUIRED PROTECTION BEYOND THE PROPERTY LINES.
2. ACCESS AGREEMENTS MUST BE KEPT AVAILABLE ON THE JOB SITE FOR THE DURATION OF THE JOB.
3. FENCE, SHED & SCAFFOLD APPLICATION WILL BE FILED SEPARATELY.



SCAFFOLD INSTALLATION NOTES:

1. SCAFFOLD, PERMIT FILING BY OTHERS.
2. INSTALLATION SHALL COMPLY WITH BSA-362-44-SM AND LL 52/05
3. SCAFFOLD INSTALLATION MUST COMPLY WITH TPPN #9/99 AND CHAPTER 33, SECTION 3314.3 DESIGN OF SCAFFOLDS, 3314.4 INSTALLATION, 3314.5 PLATFORM CONSTRUCTION, 3314.6 FOOTING AND ANCHORAGE, 3314.8 GUARD RAILS AND TOE BOARDS, 3314.9 SUPPORTED SCAFFOLDS, 3314.13 FABRICATED SCAFFOLD FRAMES, OF THE 2014 NYC BUILDING CODE.
4. NO MATERIAL OR DEBRIS STORAGE OR DEPOSIT ON SCAFFOLDS OR SHEDS ALLOWED.
5. SCAFFOLD MUST BE CONNECTED TO EXISTING BUILDING STRUCTURE THAT IS STRUCTURALLY SOUND.

DEPT BUSINESS App No. 321836778
Scan Code ESHS5716767

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION/SC
APR 25 2019
NAWED CHAUDHRI

ENGINEER

HTO
ENGINEERING, DPC
44-02 11TH STREET, OFFICE 406
LONG ISLAND CITY, NY 11101
T: (347) 639-0669

PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

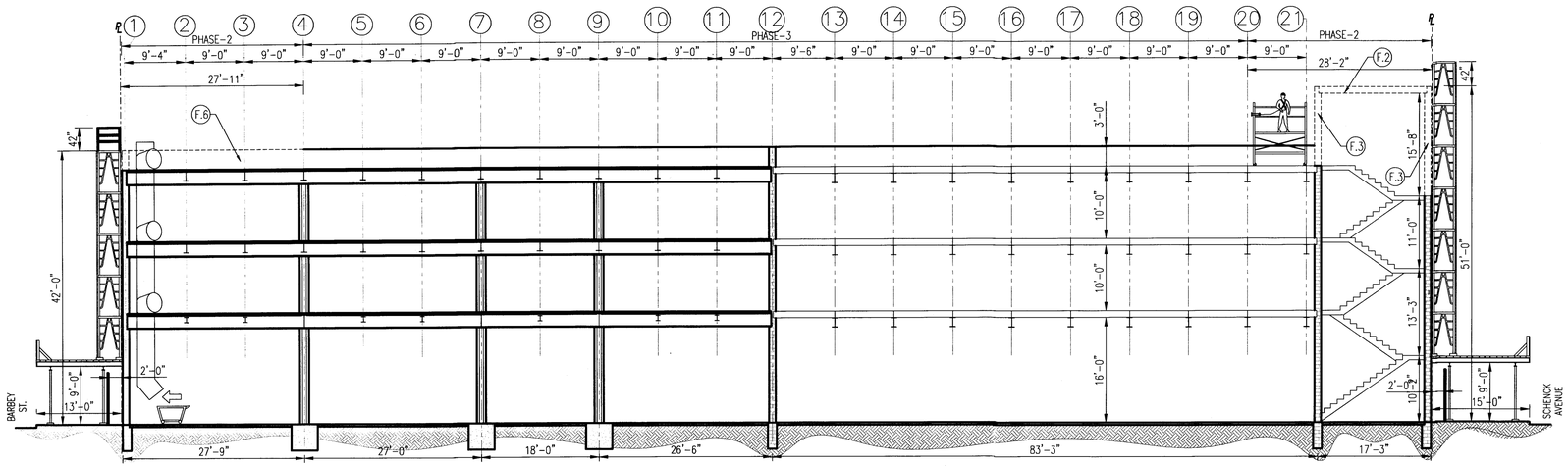
ROOF DEMOLITION PLAN (PHASE-2) STEP "F"&"G"

SEAL & SIGNATURE

STATE OF NEW YORK · SAJJAD E. NEJAD · LICENSED PROFESSIONAL ENGINEER

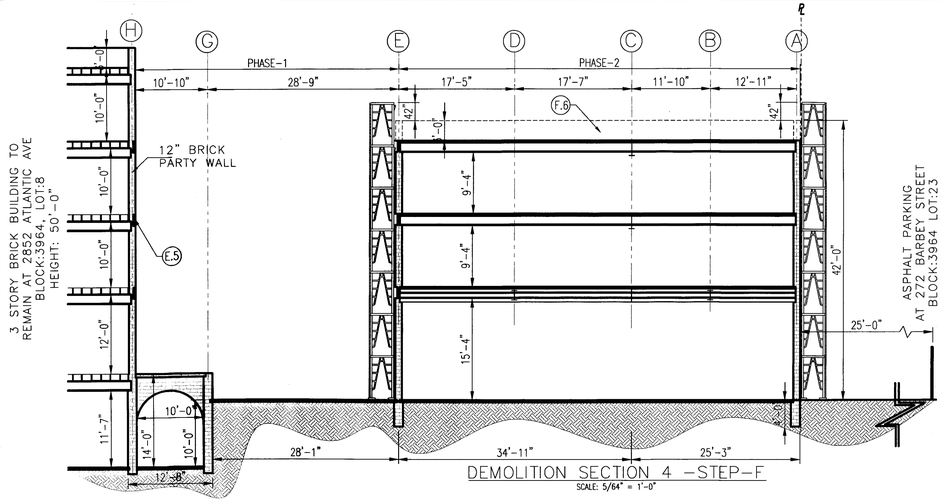
DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-114.00

SHEET 15 OF 34



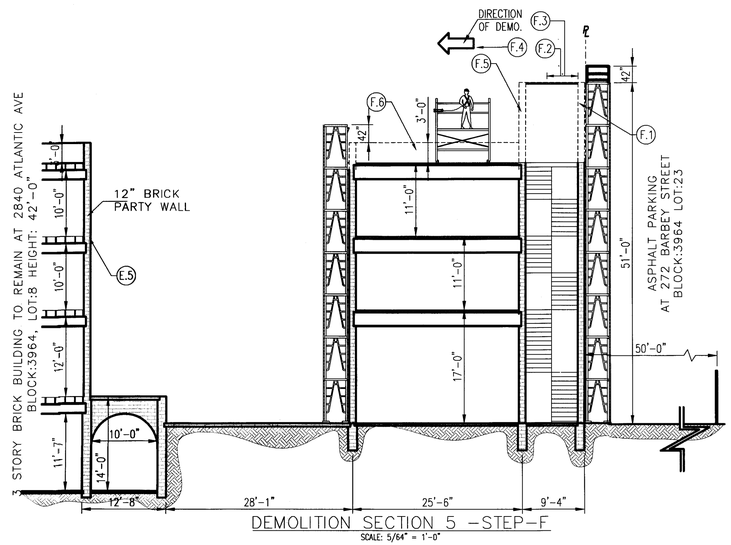
DEMOLITION SECTION 2 STEP-F

SCALE: 3/32" = 1'-0"



DEMOLITION SECTION 4 -STEP-F

SCALE: 5/64" = 1'-0"



DEMOLITION SECTION 5 -STEP-F

SCALE: 5/64" = 1'-0"

SEQUENCE OF DEMOLITION:

PHASE-2:

DEMOLITION OF 3 STORY MASONRY BUILDING:

DEMOLITION OF PHASE-2:

STEP-"F": DEMOLITION OF BULKHEAD:

F.1 HAND TOOL REMOVE FRONT WEST NON BEARING WALL ASSISTED WITH FIXED SCAFFOLD DOWN TO ROOF LEVEL. NOTE: NO PORTION OF WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME.

F.2 FROM WEST TO EAST REMOVE 3"x6" TIMBER DECKING IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD. NOTE: TIMBER DECKING MUST BE SAW CUT 12" AWAY FROM WALL AND LOWERED TO ROOF LEVEL.

F.3 HAND TOOL REMOVE CORRESPONDING SIDE WALLS IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD DOWN TO ROOF LEVEL.

F.4 REPEAT STEPS F.2 AND F.3 SEQUENTIALLY UNTIL REMOVAL OF TIMBER DECKING AND WALLS ARE COMPLETE.

F.5 HAND TOOL REMOVE REAR NON BEARING WALL ASSISTED WITH MOVABLE SCAFFOLD DOWN TO ROOF LEVEL. NOTE: NO PORTION OF WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME

F.6 HAND TOOL REMOVE PARAPET.

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION/CSC
APR 25 2019
NAWED CHAUDHRI

ENGINEER

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PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

ROOF DEMOLITION SECTIONS (PHASE-2) STEP "F"

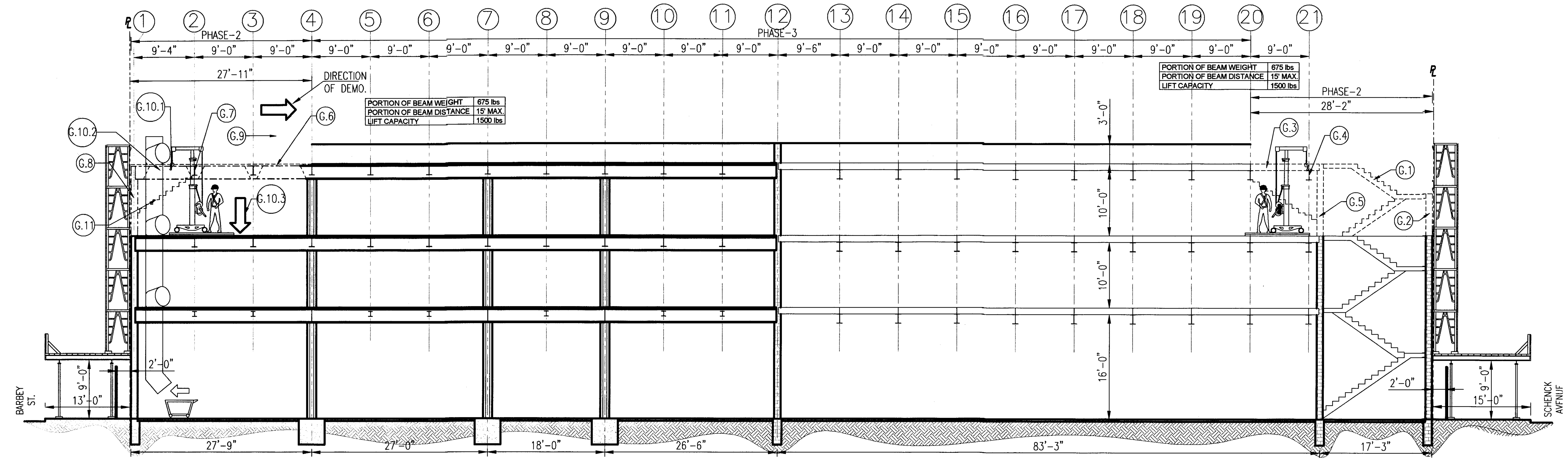
SEAL & SIGNATURE

STATE OF NEW YORK · HOWARD E. HUMAN · LICENSED PROFESSIONAL ENGINEER

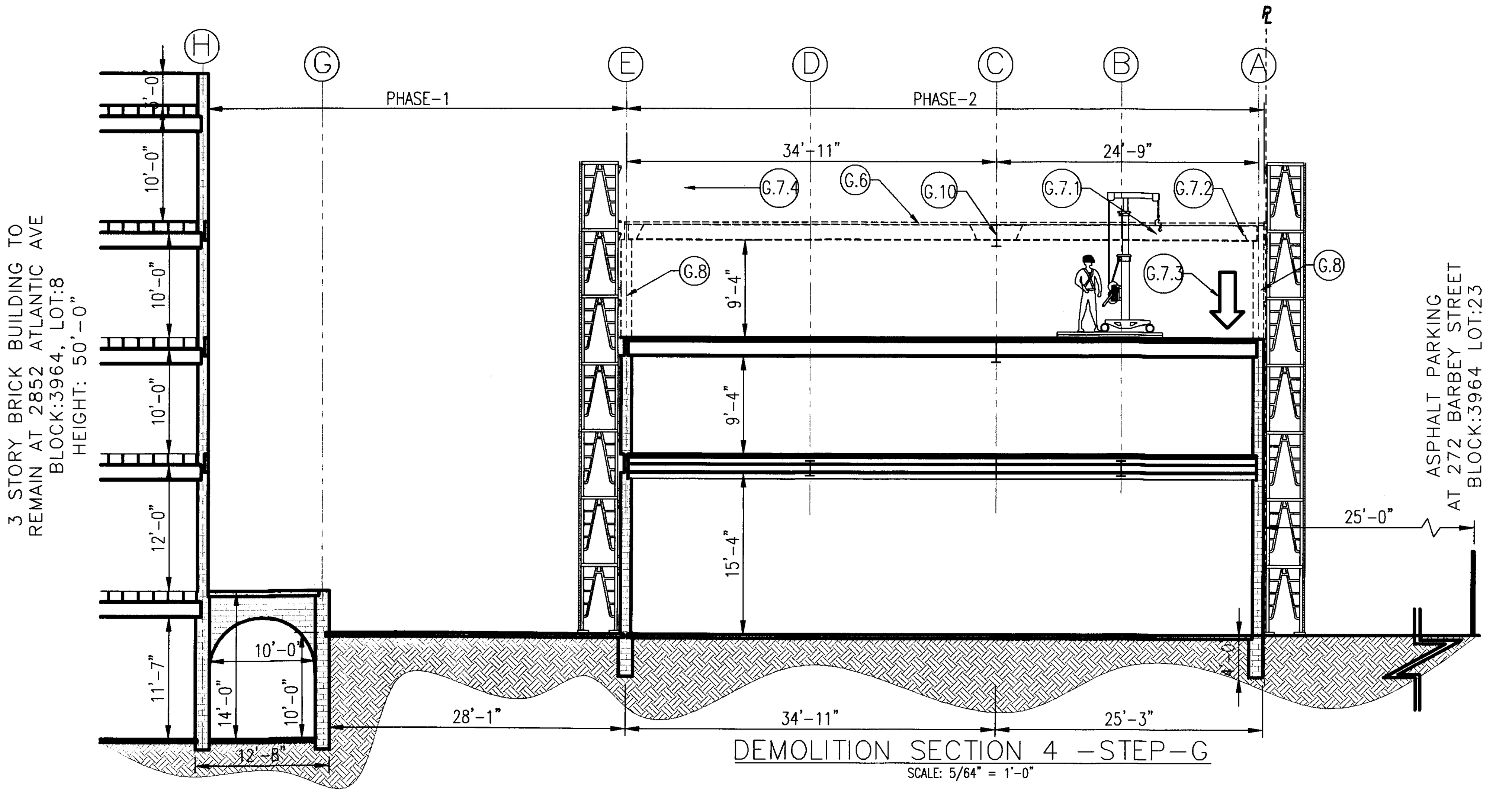
DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-115.00

SHEET 16 OF 34

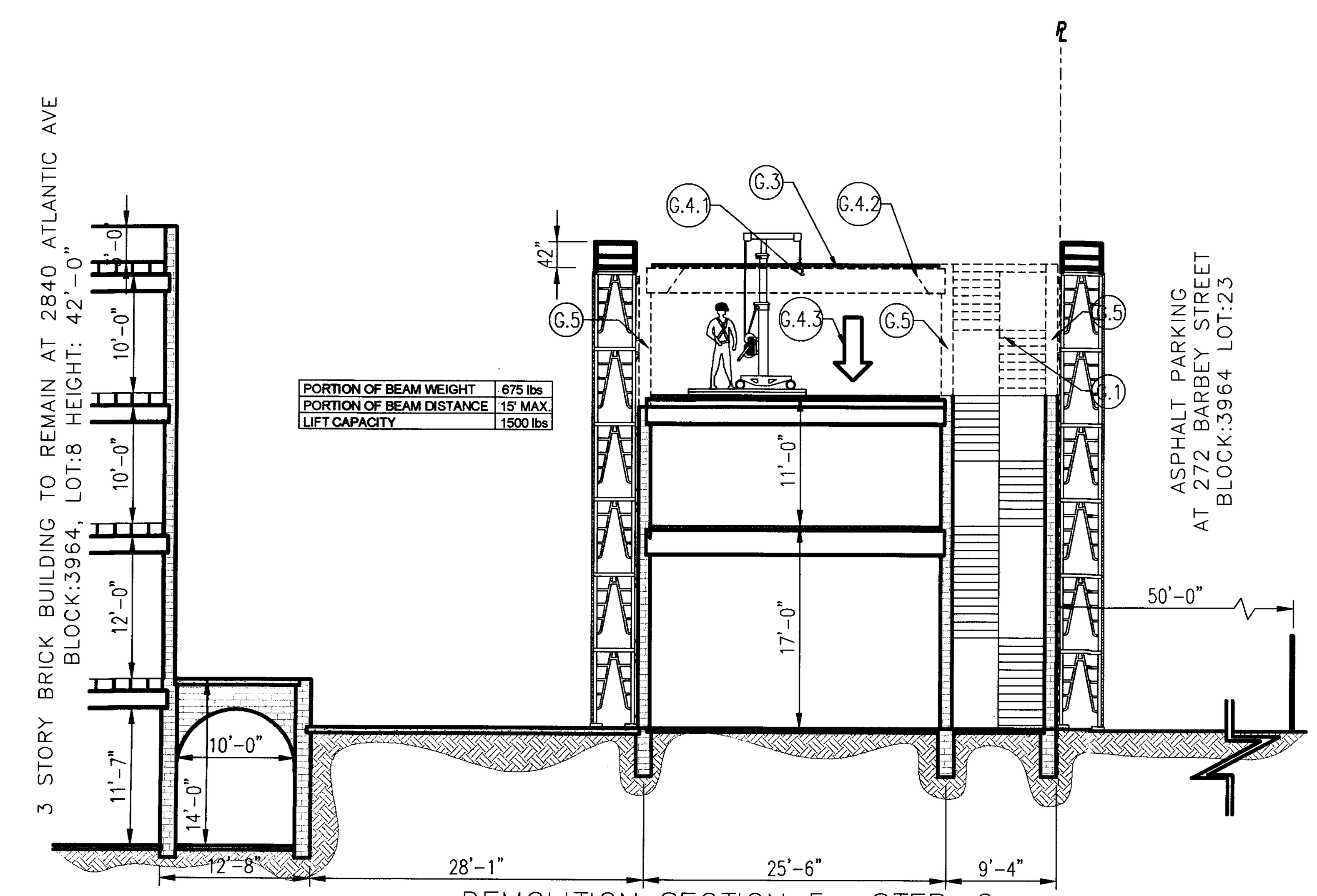
DEPT BLDGS Job No: 321836778
Scan Code
ESHS4606156



DEMOLITION SECTION 2 STEP-G
SCALE: 3/32" = 1'-0"



DEMOLITION SECTION 4 -STEP-G
SCALE: 5/64" = 1'-0"



DEMOLITION SECTION 5 -STEP-G
SCALE: 5/64" = 1'-0"

STEP "G" : DEMOLITION OF ROOF .

G.1 HAND TOOL REMOVE WOOD STAIRS.
G.2 HAND TOOL REMOVE FRONT FACADE WEST WALL DOWN TO 3RD FLOOR LEVEL.
G.2.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.
G.3 FROM FRONT TO BACK REMOVE WOOD JOISTS BETWEEN GRID LINE "23" & "21" IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD.
NOTE: JOISTS MUST BE SAW CUT 12" AWAY FROM WALL AND LOWERED TO 3RD FLOOR LEVEL.

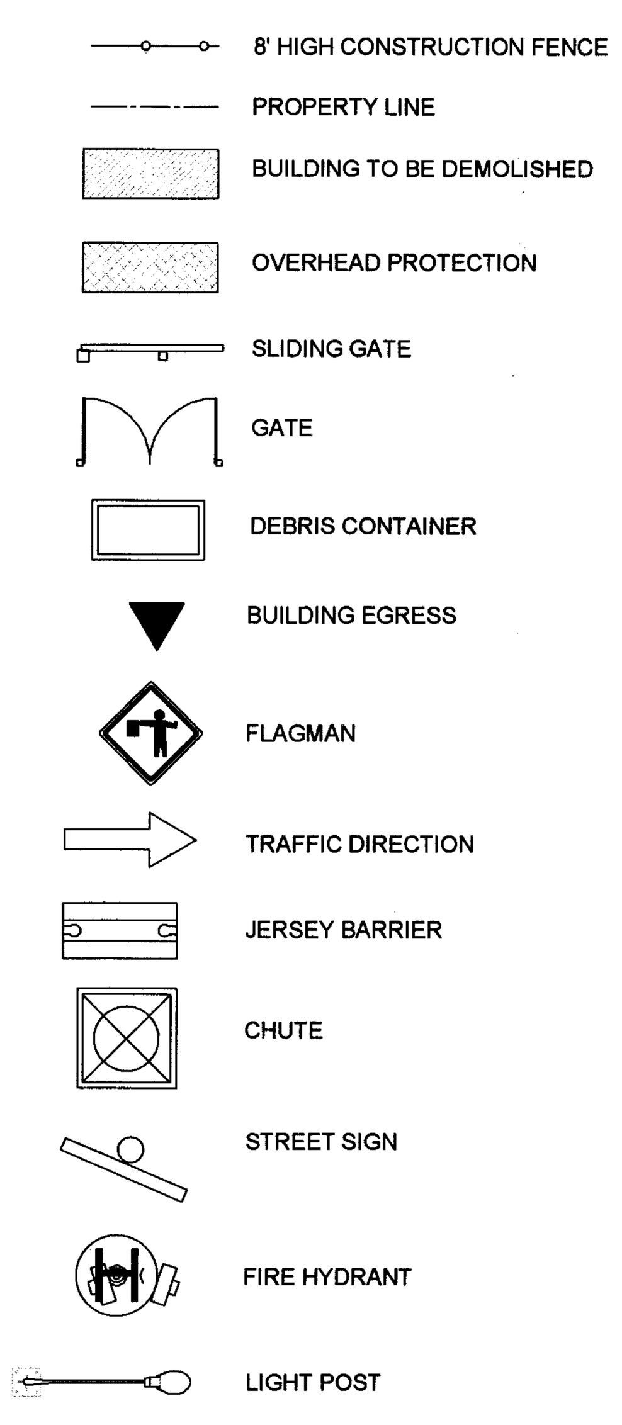
G.4 HAND TOOL REMOVE STEEL BEAMS AT GRID LINE "22":

G.4.1 USING RUST-A-BOUT, TIE THE STEEL BEAM AT GRID LINE "22" BETWEEN GRID LINE (E AND C).
G.4.2 BURN CUT ON THE EDGE AS SHOWN ON DETAIL 5 ON DM-118.
G.4.3 BRING DOWN THE STEEL BEAM TO GRADE.
G.5 HAND TOOL REMOVE CORRESPONDING SIDE WALLS BETWEEN GRID LINE "23" & "21" IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD DOWN TO 3RD FLOOR LEVEL.
NOTE: NO PORTION OF WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME
G.5.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.

G.6 HAND TOOL REMOVE CONCRETE SLAB BETWEEN GRID LINE "1" AND "4".
REMOVE STEEL BEAM:

G.7 HAND TOOL REMOVE STEEL BEAMS:
G.7.1 USING RUST-A-BOUT, TIE THE PORTION OF STEEL BEAM AT GRID LINE "2" BETWEEN GRID LINE (E AND C).
G.7.2 BURN CUT ON THE EDGE.
G.7.3 BRING DOWN THE PORTION OF STEEL BEAM TO GRADE.
G.7.4 CONTINUE WITH NEXT STEEL BEAM AT GRID LINE "2" FOLLOWING THE SAME PROCEDURE FROM (G.7.1 TO G.7.3) TILL ALL BEAMS AT GRID LINE "2" ARE REMOVED.
G.8 HAND TOOL REMOVE CORRESPONDING SIDE WALLS AT GRID LINE "E" AND "A" BETWEEN GRID LINE "1" & "2" IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD DOWN TO 3RD FLOOR LEVEL.
NOTE: NO PORTION OF WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME
G.8.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.
G.9 FROM EAST TO WEST REPEAT STEPS G.7 AND G.8 SEQUENTIALLY UNTIL REMOVAL OF STEEL BEAMS AT GRID LINE "2" & "3" AND LATERAL WALLS BETWEEN GRID LINE "1" & "4" ARE COMPLETE.
G.9.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.
G.10 REPEAT THE SAME PROCEDURE FROM (G.7.1 TO G.7.3) FOR REMOVAL OF STEEL BEAM AT GIRD LINE "C".
G.11 HAND TOOL REMOVE EAST WALL AT GRID LINE "1" IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD DOWN TO 3RD FLOOR LEVEL.
NOTE: NO PORTION OF WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME
G.11.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.

LEGEND:



No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS APPROVED DEMOLITION/CSC
APR 25 2019
NAWEED CHAUDHRI

ENGINEER

H+O ENGINEERING, DPC
44-02 11TH STREET, OFFICE 406
LONG ISLAND CITY, NY 11101
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PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

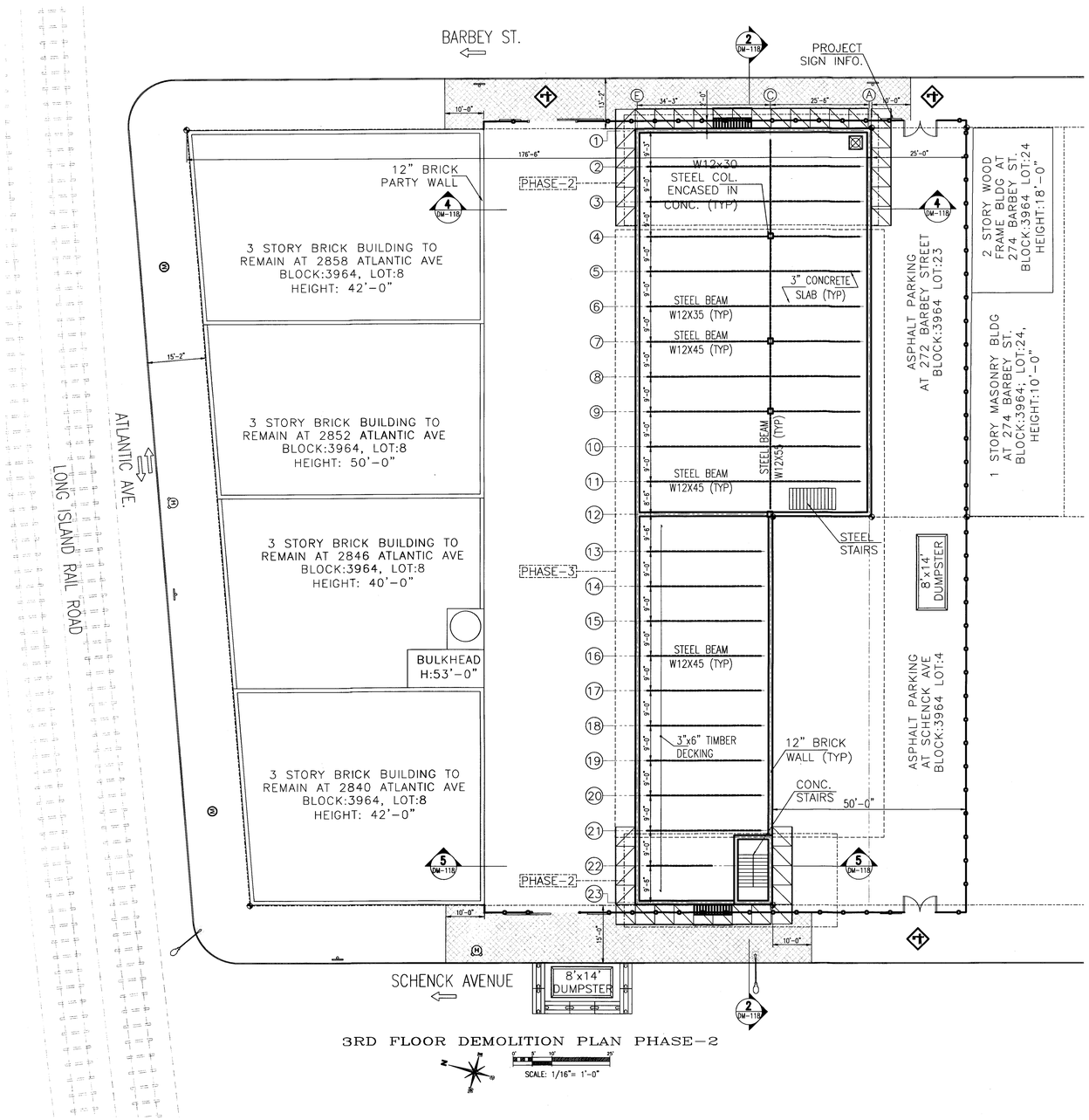
ROOF DEMOLITION SECTIONS (PHASE-2) STEP "G"

SEAL & SIGNATURE

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-116.00

SHEET 17 OF 34

DEPT BLDGS Job No. 321836778
Scan Code ESHS1574322



3RD FLOOR DEMOLITION PLAN PHASE-2

SCALE: 1/16"= 1'-0"

SEQUENCE OF DEMOLITION:

STEP "H" : DEMOLITION OF 3RD FLOOR .

H.1 HAND TOOL REMOVE CONCRETE STAIRS.
H.2 HAND TOOL REMOVE FRONT FACADE WEST WALL DOWN TO 3RD FLOOR LEVEL.
H.2.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.
H.3 FROM FRONT TO BACK REMOVE TIMBER DECKING BETWEEN GRID LINE "23" & "21" IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD.
NOTE: TIMBER DECKING MUST BE SAW CUT 12" AWAY FROM WALL AND LOWERED TO 2ND FLOOR LEVEL.

H.4 HAND TOOL REMOVE STEEL BEAMS AT GRID LINE "22":

H.4.1 USING RUST-A-BOUT, TIE THE STEEL BEAM AT GRID LINE "22" BETWEEN GRID LINE (E AND C).
H.4.2 BURN CUT ON THE EDGE.
H.4.3 BRING DOWN THE STEEL BEAM TO 2ND LEVEL.
H.5 HAND TOOL REMOVE CORRESPONDING SIDE WALLS BETWEEN GRID LINE "23" & "21" IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD DOWN TO 3RD FLOOR LEVEL.
NOTE: NO PORTION OF WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME
H.5.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.
H.6 HAND TOOL REMOVE CONCRETE SLAB BETWEEN GRID LINE "1" AND "4".

REMOVE STEEL BEAM:

H.7 HAND TOOL REMOVE STEEL BEAMS:
H.7.1 USING RUST-A-BOUT, TIE THE PORTION OF STEEL BEAM AT GRID LINE "2" BETWEEN GRID LINE (E AND C).
H.7.2 BURN CUT ON THE EDGE
H.7.3 BRING DOWN THE PORTION OF STEEL BEAM TO 2ND LEVEL.
H.7.4 CONTINUE WITH NEXT STEEL BEAM AT GRID LINE "2" FOLLOWING THE SAME PROCEDURE FROM (H.7.1 TO H.7.3) UNTIL ALL BEAMS AT GRID LINE "2" ARE REMOVED.
H.8 HAND TOOL REMOVE CORRESPONDING SIDE WALLS AT GRID LINE "E" AND "A" BETWEEN GRID LINE "1" & "2" IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD DOWN TO 2ND LEVEL.
NOTE: NO PORTION OF WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME
H.8.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.
H.9 FROM EAST TO WEST REPEAT STEPS H.7 AND H.8 SEQUENTIALLY UNTIL REMOVAL OF STEEL BEAMS AT GRID LINE "2" & "3" AND LATERAL WALLS BETWEEN GRID LINE "1" & "4" ARE COMPLETE.
H.9.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.
H.10 REPEAT THE SAME PROCEDURE FROM (H.7.1 TO H.7.3) FOR REMOVAL OF STEEL BEAM AT GIRD LINE "C".
H.11 HAND TOOL REMOVE EAST WALL AT GRID LINE "1" IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD DOWN TO 2ND LEVEL.
NOTE: NO PORTION OF WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME
H.11.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.

DEPT BLDGS Job No. 321836778
Scan Code ESHS5739753

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION/CSC
APR 25 2019
NAWEED CHAUDHRI

ENGINEER

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PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

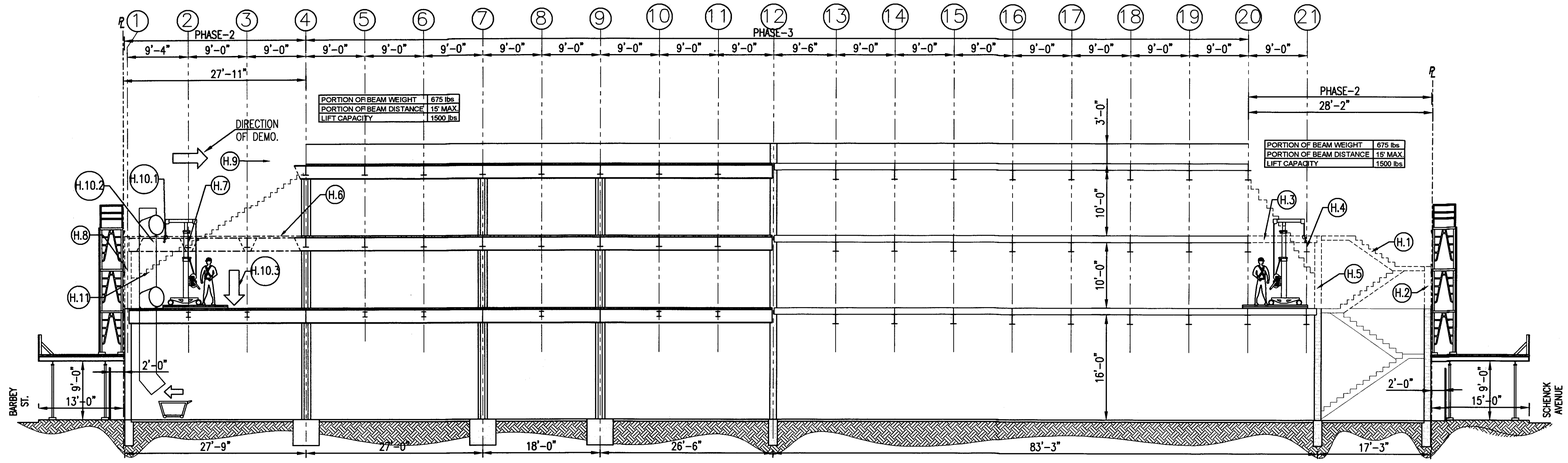
3RD FLOOR
DEMOLITION PLAN
(PHASE-2)
STEP "H"

SEAL & SIGNATURE

STATE OF NEW YORK · SANTIAGO E. HENAO · LICENSED PROFESSIONAL ENGINEER

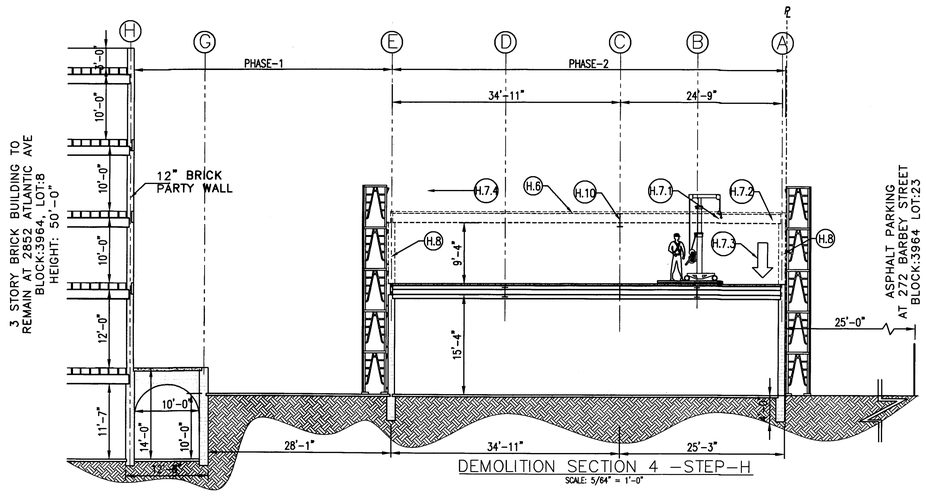
DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-117.00

SHEET 18 OF 34



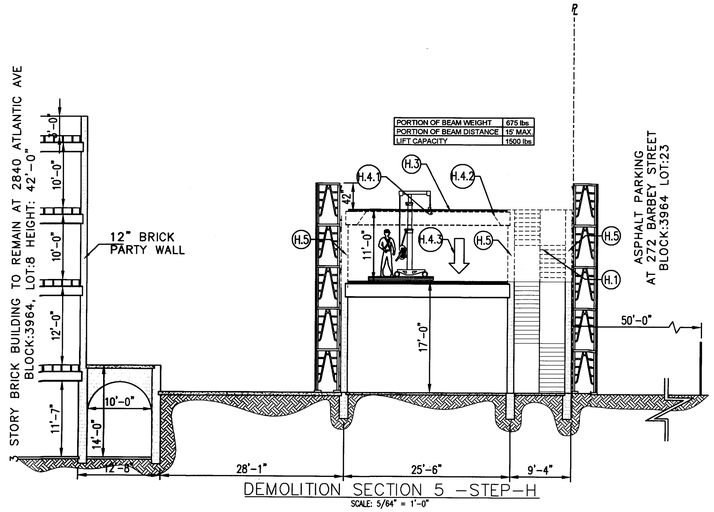
DEMOLITION SECTION 2 STEP–H

SCALE: 3/32" = 1'-0"



DEMOLITION SECTION 4 –STEP–H

SCALE: 5/64" = 1'-0"



DEMOLITION SECTION 5 –STEP–H

SCALE: 5/64" = 1'-0"

SEQUENCE OF DEMOLITION:

STEP "H" : DEMOLITION OF 3RD FLOOR .

H.1 HAND TOOL REMOVE CONCRETE STAIRS.
H.2 HAND TOOL REMOVE FRONT FACADE WEST WALL DOWN TO 3RD FLOOR LEVEL.
H.2.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.
H.3 FROM FRONT TO BACK REMOVE TIMBER DECKING BETWEEN GRID LINE "23" & "21" IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD.
NOTE: TIMBER DECKING MUST BE SAW CUT 12" AWAY FROM WALL AND LOWERED TO 2ND FLOOR LEVEL.

H.4 HAND TOOL REMOVE STEEL BEAMS AT GRID LINE "22":

H.4.1 USING RUST-A-BOUT, TIE THE STEEL BEAM AT GRID LINE "22" BETWEEN GRID LINE (E AND C).
H.4.2 BURN CUT ON THE EDGE.
H.4.3 BRING DOWN THE STEEL BEAM TO 2ND LEVEL.
H.5 HAND TOOL REMOVE CORRESPONDING SIDE WALLS BETWEEN GRID LINE "23" & "21" IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD DOWN TO 3RD FLOOR LEVEL.
NOTE: NO PORTION OF WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME
H.5.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.
H.6 HAND TOOL REMOVE CONCRETE SLAB BETWEEN GRID LINE "1" AND "4".

REMOVE STEEL BEAM:

H.7 HAND TOOL REMOVE STEEL BEAMS:
H.7.1 USING RUST-A-BOUT, TIE THE PORTION OF STEEL BEAM AT GRID LINE "2" BETWEEN GRID LINE (E AND C).
H.7.2 BURN CUT ON THE EDGE
H.7.3 BRING DOWN THE PORTION OF STEEL BEAM TO 2ND LEVEL.
H.7.4 CONTINUE WITH NEXT STEEL BEAM AT GRID LINE "2" FOLLOWING THE SAME PROCEDURE FROM (H.7.1 TO H.7.3) UNTIL ALL BEAMS AT GRID LINE "2" ARE REMOVED.
H.8 HAND TOOL REMOVE CORRESPONDING SIDE WALLS AT GRID LINE "E" AND "A" BETWEEN GRID LINE "1" & "2" IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD DOWN TO 2ND LEVEL.
NOTE: NO PORTION OF WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME
H.8.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.
H.9 FROM EAST TO WEST REPEAT STEPS H.7 AND H.8 SEQUENTIALLY UNTIL REMOVAL OF STEEL BEAMS AT GRID LINE "2" & "3" AND LATERAL WALLS BETWEEN GRID LINE "1" & "4" ARE COMPLETE.
H.9.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.
H.10 REPEAT THE SAME PROCEDURE FROM (H.7.1 TO H.7.3) FOR REMOVAL OF STEEL BEAM AT GIRD LINE "C".
H.11 HAND TOOL REMOVE EAST WALL AT GRID LINE "1" IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD DOWN TO 2ND LEVEL.
NOTE: NO PORTION OF WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME
H.11.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION/CSC
APR 25 2019
NAWEED CHAUDHRI

ENGINEER

HHO
ENGINEERING, DPC
44-02 11TH STREET, OFFICE 406
LONG ISLAND CITY, NY 11101
T: (347) 639-0669

PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

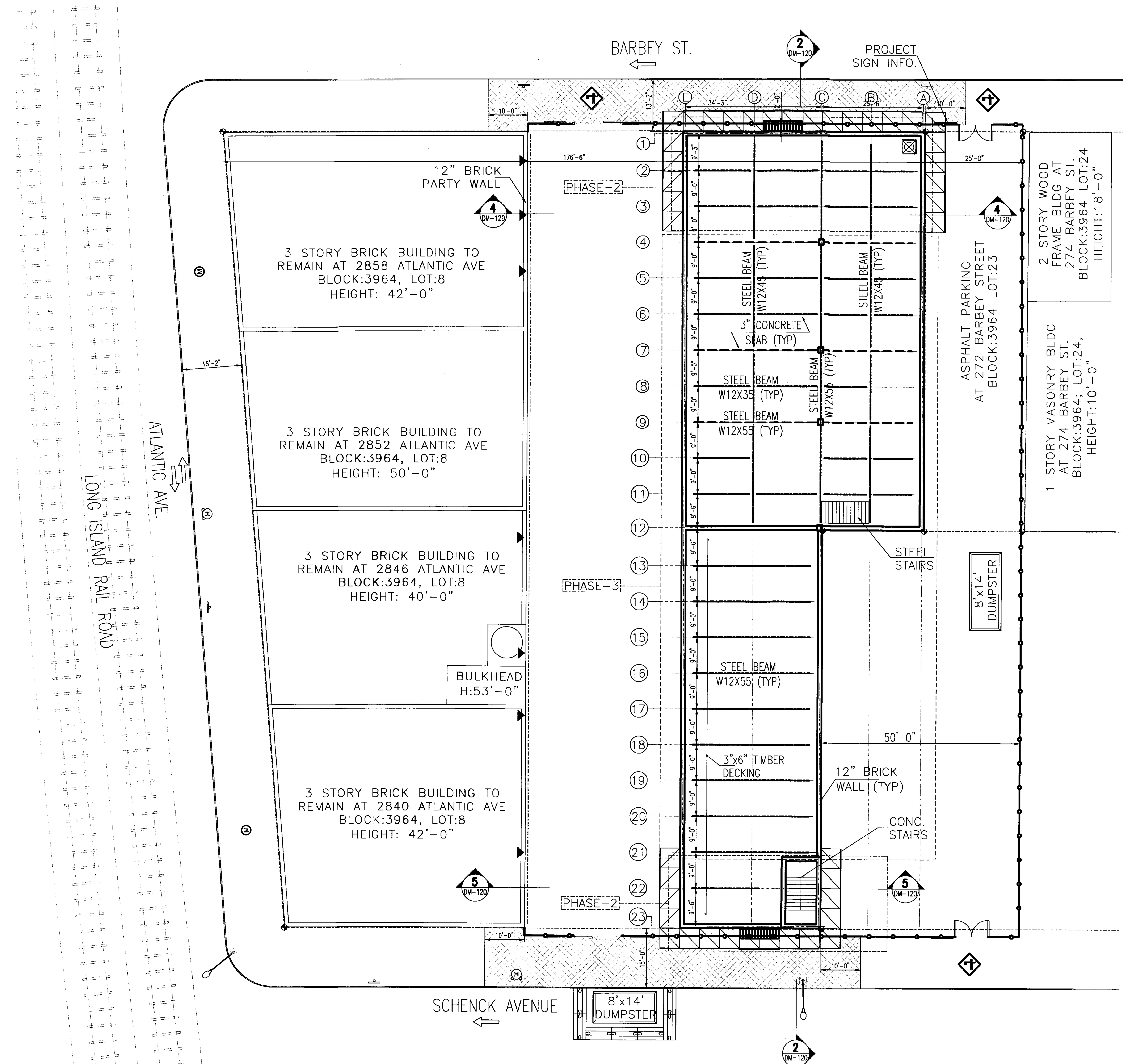
SHEET TITLE

3RD FLOOR
DEMOLITION
SECTIONS (PHASE-2)
STEP "H"

SEAL & SIGNATURE

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-118.00

SHEET 19 OF 34



2ND FLOOR DEMOLITION PLAN PHASE-2

SCALE: 1/16"= 1'-0"

SEQUENCE OF DEMOLITION:

STEP "I" : DEMOLITION OF 2ND FLOOR .

I.1 HAND TOOL REMOVE CONCRETE STAIRS.
I.2 HAND TOOL REMOVE FRONT FACADE WEST WALL DOWN TO GROUND FLOOR LEVEL.
I.2.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.
I.3 FROM FRONT TO BACK REMOVE TIMBER DECKING BETWEEN GRID LINE "23" & "21" IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD.
NOTE: TIMBER DECKING MUST BE SAW CUT 12" AWAY FROM WALL AND
LOWERED TO GROUND FLOOR LEVEL.

I.4 HAND TOOL REMOVE STEEL BEAMS AT GRID LINE "22":

I.4.1 USING RUST-A-BOUT, TIE THE STEEL BEAM AT GRID LINE "22" BETWEEN GRID LINE (E AND C).
I.4.2 BURN CUT ON THE EDGE.
I.4.3 BRING DOWN THE STEEL BEAM TO GROUND.
I.5 HAND TOOL REMOVE CORRESPONDING SIDE WALLS BETWEEN GRID LINE "23" & "21" IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD DOWN TO 3RD FLOOR LEVEL.
NOTE: NO PORTION OF WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME
I.5.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.
I.6 HAND TOOL REMOVE CONCRETE SLAB BETWEEN GRID LINE "1" AND "4".

REMOVE STEEL BEAM:

I.7 HAND TOOL REMOVE STEEL BEAMS:
I.7.1 USING RUST-A-BOUT, TIE THE PORTION OF STEEL BEAM AT GRID LINE "2" BETWEEN GRID LINE (E AND C).
I.7.2 BURN CUT ON THE EDGE.
I.7.3 BRING DOWN THE PORTION OF STEEL BEAM TO GRADE.
I.7.4 CONTINUE WITH NEXT STEEL BEAM AT GRID LINE "2" FOLLOWING THE SAME PROCEDURE FROM (I.7.1 TO I.7.3) UNTIL ALL BEAMS AT GRID LINE "2" ARE REMOVED.
I.8 HAND TOOL REMOVE CORRESPONDING SIDE WALLS AT GRID LINE "E" AND "A" BETWEEN GRID LINE "1" & "2" IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD DOWN TO GROUND LEVEL.
NOTE: NO PORTION OF WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME
I.8.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.
I.9 FROM EAST TO WEST REPEAT STEPS I.7 AND I.8 SEQUENTIALLY UNTIL REMOVAL OF STEEL BEAMS AT GRID LINE "2" & "3" AND LATERAL WALLS BETWEEN GRID LINE "1" & "4" ARE COMPLETE.
I.9.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.
I.10 REPEAT THE SAME PROCEDURE FROM (I.7.1 TO I.7.3) FOR REMOVAL OF STEEL BEAM AT GIRD LINE "C".
I.11 HAND TOOL REMOVE EAST WALL AT GRID LINE "1" IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD DOWN TO GROUND FLOOR LEVEL.
NOTE: NO PORTION OF WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME
I.11.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.

DEPT BLDGS Job No. 321836778
Scan Code ESHS1309696

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS APPROVED DEMOLITION
APR 25 2019
NAWEED CHAUDHRI

ENGINEER

H-O ENGINEERING, DPC
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LONG ISLAND CITY, NY 11101
T: (347) 639-0669

PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

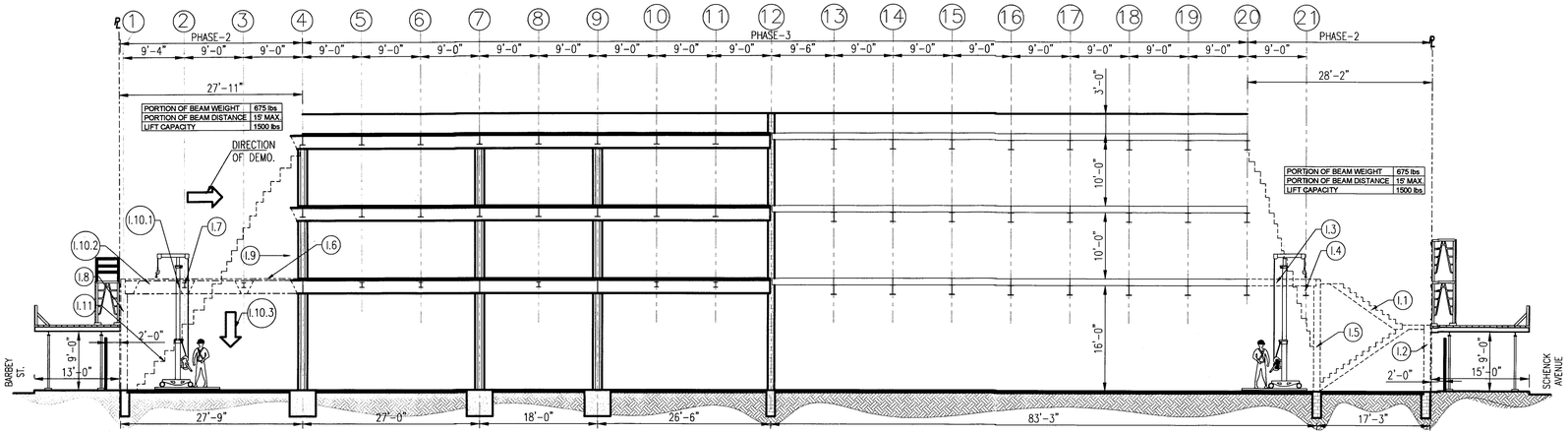
SHEET TITLE

2ND FLOOR DEMOLITION PLAN (PHASE-2) STEP "I"

SEAL & SIGNATURE

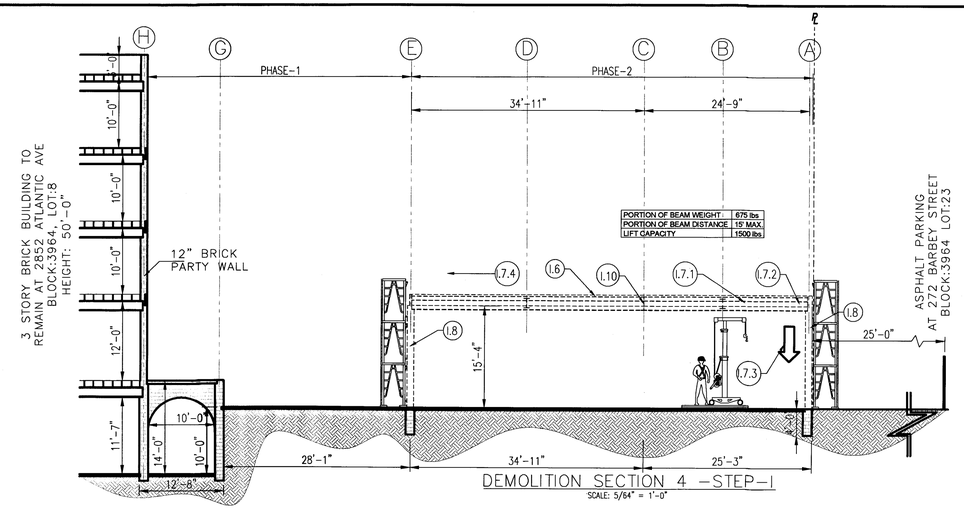
STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-119.00



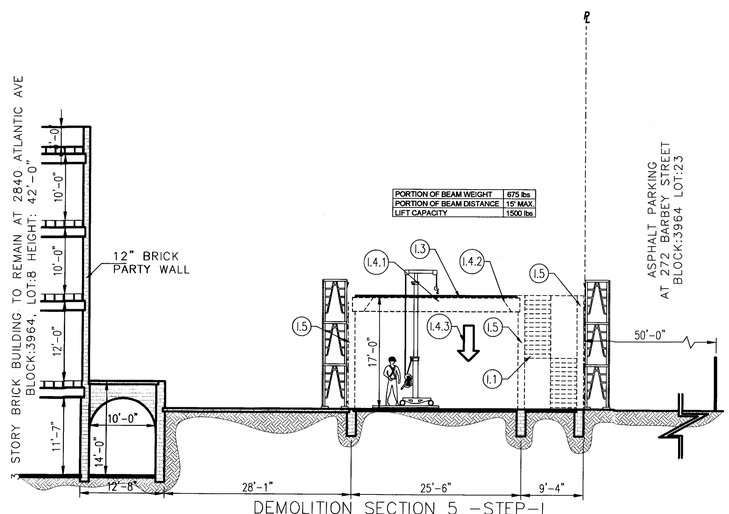
DEMOLITION SECTION 2 STEP-I

SCALE: 3/32" = 1'-0"



DEMOLITION SECTION 4 -STEP-I

SCALE: 5/64" = 1'-0"



DEMOLITION SECTION 5 -STEP-I

SCALE: 5/64" = 1'-0"

SEQUENCE OF DEMOLITION:

STEP "I" : DEMOLITION OF 2ND FLOOR .

I.1 HAND TOOL REMOVE CONCRETE STAIRS.

I.2 HAND TOOL REMOVE FRONT FACADE WEST WALL DOWN TO GROUND FLOOR LEVEL.
I.2.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.

I.3 FROM FRONT TO BACK REMOVE TIMBER DECKING BETWEEN GRID LINE "23" & "21" IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD.
NOTE: TIMBER DECKING MUST BE SAW CUT 12" AWAY FROM WALL AND
LOWERED TO GROUND FLOOR LEVEL.

I.4 HAND TOOL REMOVE STEEL BEAMS AT GRID LINE "22":

I.4.1 USING RUST-A-BOUT, TIE THE STEEL BEAM AT GRID LINE "22" BETWEEN GRID LINE (E AND C).
I.4.2 BURN CUT ON THE EDGE.
I.4.3 BRING DOWN THE STEEL BEAM TO GROUND.

I.5 HAND TOOL REMOVE CORRESPONDING SIDE WALLS BETWEEN GRID LINE "23" & "21" IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD DOWN TO 3RD FLOOR LEVEL.
NOTE: NO PORTION OF WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME
I.5.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.

I.6 HAND TOOL REMOVE CONCRETE SLAB BETWEEN GRID LINE "1" AND "4".

REMOVE STEEL BEAM:

I.7 HAND TOOL REMOVE STEEL BEAMS:
I.7.1 USING RUST-A-BOUT, TIE THE PORTION OF STEEL BEAM AT GRID LINE "2" BETWEEN GRID LINE (E AND C).
I.7.2 BURN CUT ON THE EDGE.
I.7.3 BRING DOWN THE PORTION OF STEEL BEAM TO GRADE.
I.7.4 CONTINUE WITH NEXT STEEL BEAM AT GRID LINE "2" FOLLOWING THE SAME PROCEDURE FROM (I.7.1 TO I.7.3) UNTIL ALL BEAMS AT GRID LINE "2" ARE REMOVED.

I.8 HAND TOOL REMOVE CORRESPONDING SIDE WALLS AT GRID LINE "E" AND "A" BETWEEN GRID LINE "1" & "2" IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD DOWN TO GROUND LEVEL.
NOTE: NO PORTION OF WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME
I.8.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.

I.9 FROM EAST TO WEST REPEAT STEPS I.7 AND I.8 SEQUENTIALLY UNTIL REMOVAL OF STEEL BEAMS AT GRID LINE "2" & "3" AND LATERAL WALLS BETWEEN GRID LINE "1" & "4" ARE COMPLETE.
I.9.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.

I.10 REPEAT THE SAME PROCEDURE FROM (I.7.1 TO I.7.3) FOR REMOVAL OF STEEL BEAM AT GIRD LINE "C".

I.11 HAND TOOL REMOVE EAST WALL AT GRID LINE "1" IN 10'-0" INTERVALS ASSISTED WITH MOVABLE SCAFFOLD DOWN TO GROUND FLOOR LEVEL.
NOTE: NO PORTION OF WALL BIGGER THAN 12"X12"X12" CAN BE DROPPED ON FLOOR AT ANYTIME
I.11.1 45° DIAG. SLOPE IS TO ASSURE THE STABILITY OF THE REMAINING FRAMING PORTION OF WALL.

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION
APR 25 2019
NAVEED CHAUDHRI

ENGINEER
HTO
ENGINEERING, DPC
44-02 11TH STREET, OFFICE 406
LONG ISLAND CITY, NY 11101
T: (347) 639-0669

PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

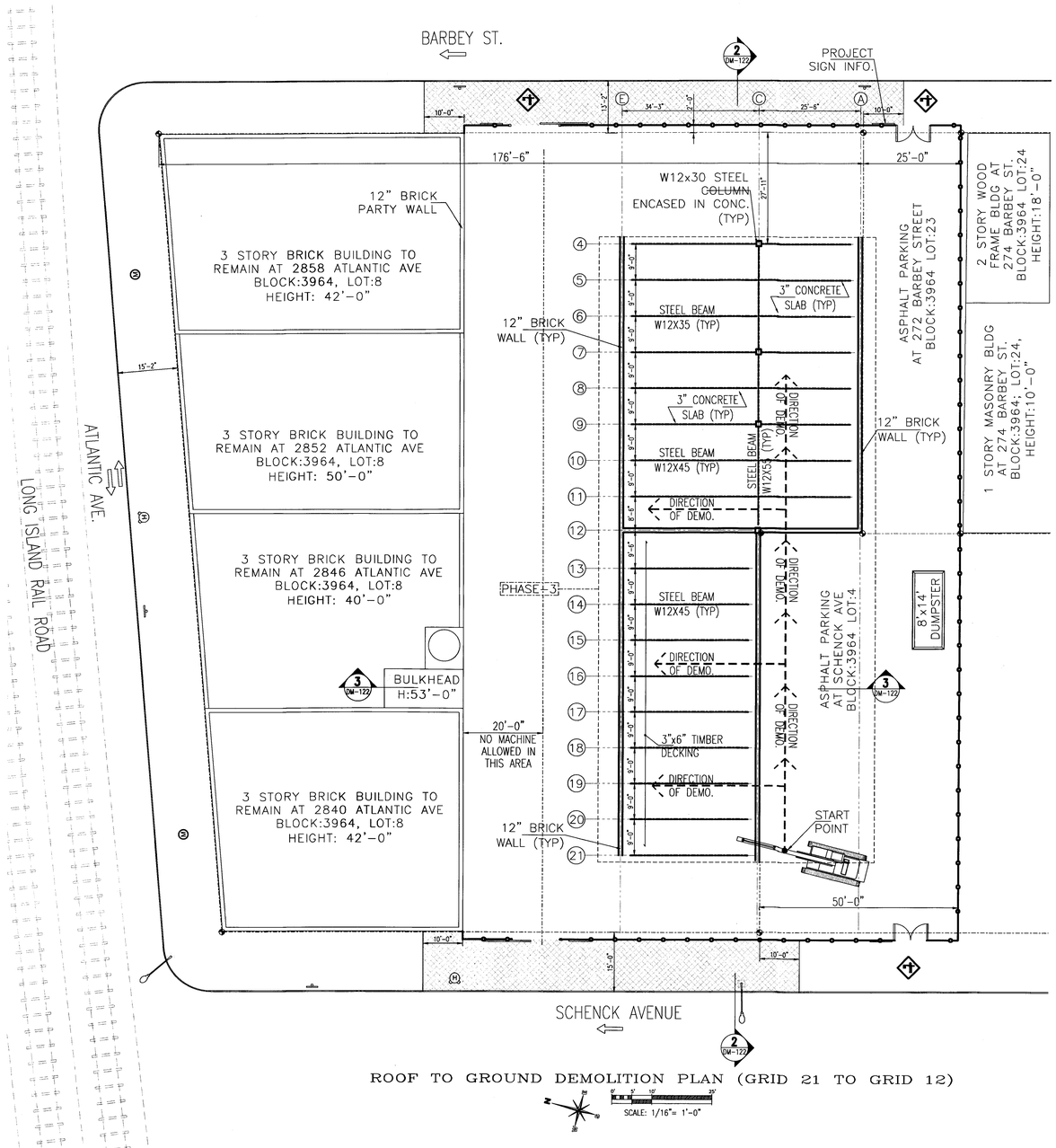
SHEET TITLE

2ND FLOOR DEMOLITION SECTIONS (PHASE-2) STEP "I"

SEAL & SIGNATURE

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-120.00

SHEET 21 OF 34



ROOF TO GROUND DEMOLITION PLAN (GRID 21 TO GRID 12)

SCALE: 1/16"= 1'-0"

SEQUENCE OF DEMOLITION:

FULL MECHANICAL DEMOLITION

STEP-"J":

J.1 REMOVE ROOF TO GROUND BY MECHANICAL MEANS
J.1.1. STARTING AT SOUTH-WEST CORNER OF THE BUILDING AND FOLLOWING THE DIRECTION OF DEMOLITION FOR MACHINE (SEE PLAN) PROCEED WITH FULL MECHANICAL DEMOLITION BAY-BY-BAY UNTIL THE STRUCTURE IS FULLY DEMOLISHED.
(SEE GRAPHICAL SEQUENCE DM-121.00).

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS APPROVED DEMOLITION
APR 25 2019
NAWEED CHAUDHRY

ENGINEER

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PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

MECH'L DEMOLITION PLAN (PHASE-3) STEP "J"

SEAL & SIGNATURE

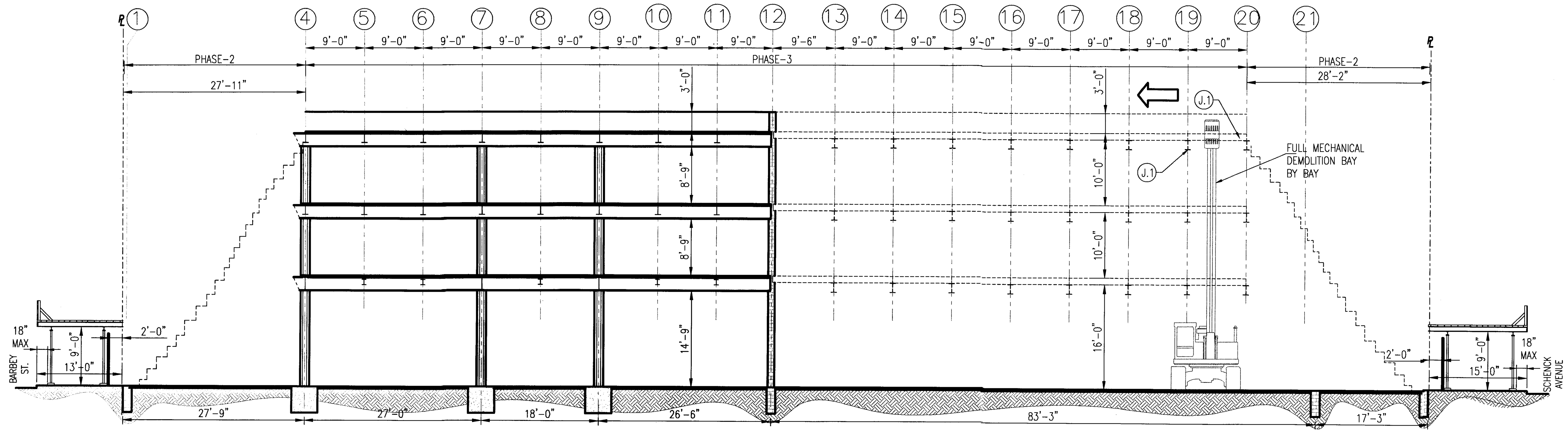
STATE OF NEW YORK · SANTIAGO E. NIEVES · LICENSED PROFESSIONAL ENGINEER

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	

DM-121.00

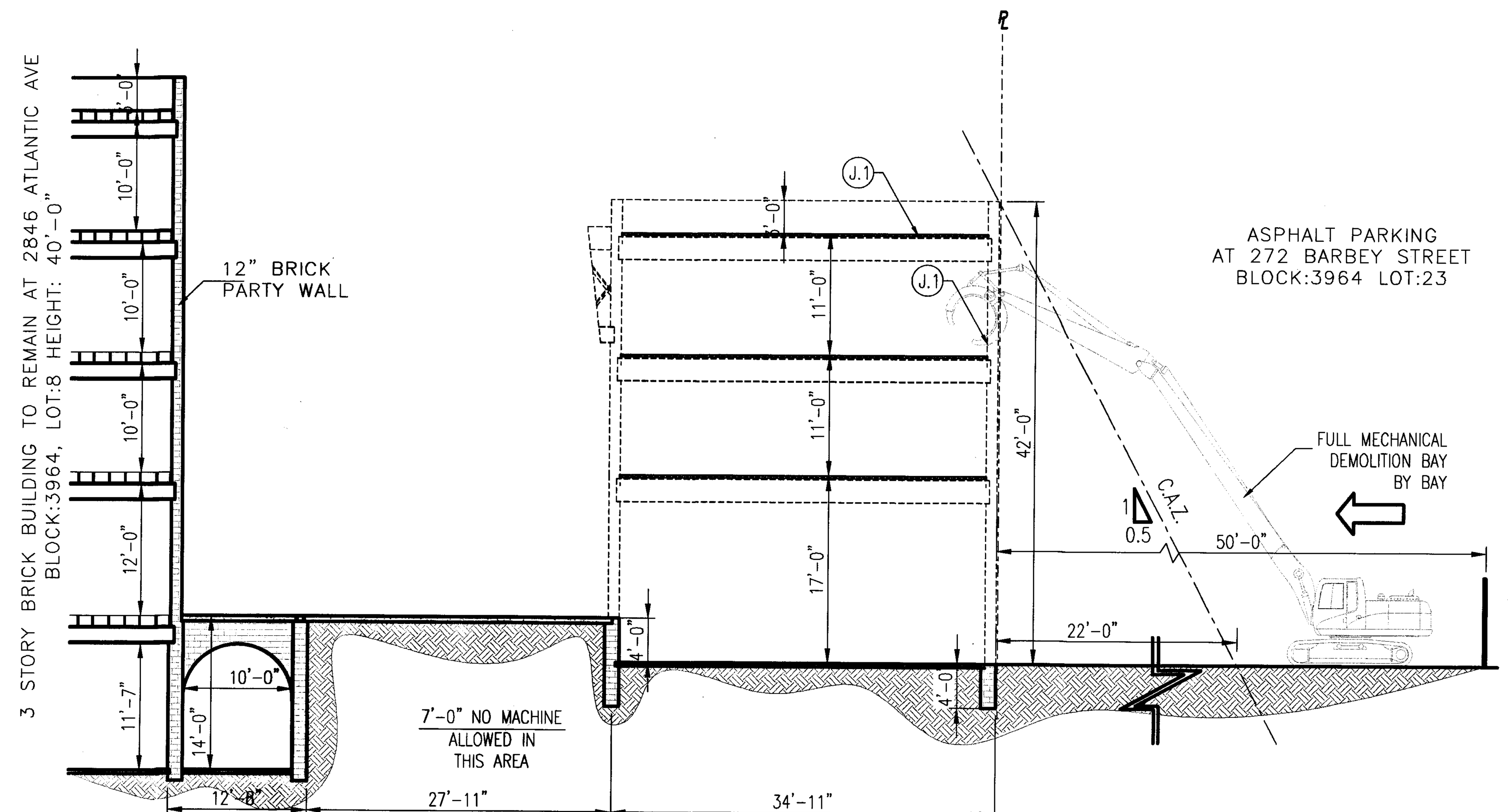
SHEET 22 OF 34

DEPT BLDGS Job No.: 321836778
Scan Code: ESHS8355109



DEMOLITION SECTION 2 STEP-J.1

SCALE: 3/32" = 1'-0"



DEMOLITION SECTION 3 -STEP-J.1

SCALE: 5/64" = 1'-0"

SEQUENCE OF DEMOLITION:

FULL MECHANICAL DEMOLITION

STEP-"J":

J.1 REMOVE ROOF TO GROUND BY MECHANICAL MEANS
J.1.1. STARTING AT SOUTH-WEST CORNER OF THE BUILDING AND FOLLOWING THE DIRECTION OF DEMOLITION FOR MACHINE (SEE PLAN) PROCEED WITH FULL MECHANICAL DEMOLITION BAY-BY-BAY UNTIL THE STRUCTURE IS FULLY DEMOLISHED.
(SEE GRAPHICAL SEQUENCE DM-121.00).

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION/CSC
APR 25 2019
NAWEED CHAUDHRI

ENGINEER

H+O ENGINEERING, DPC
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PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

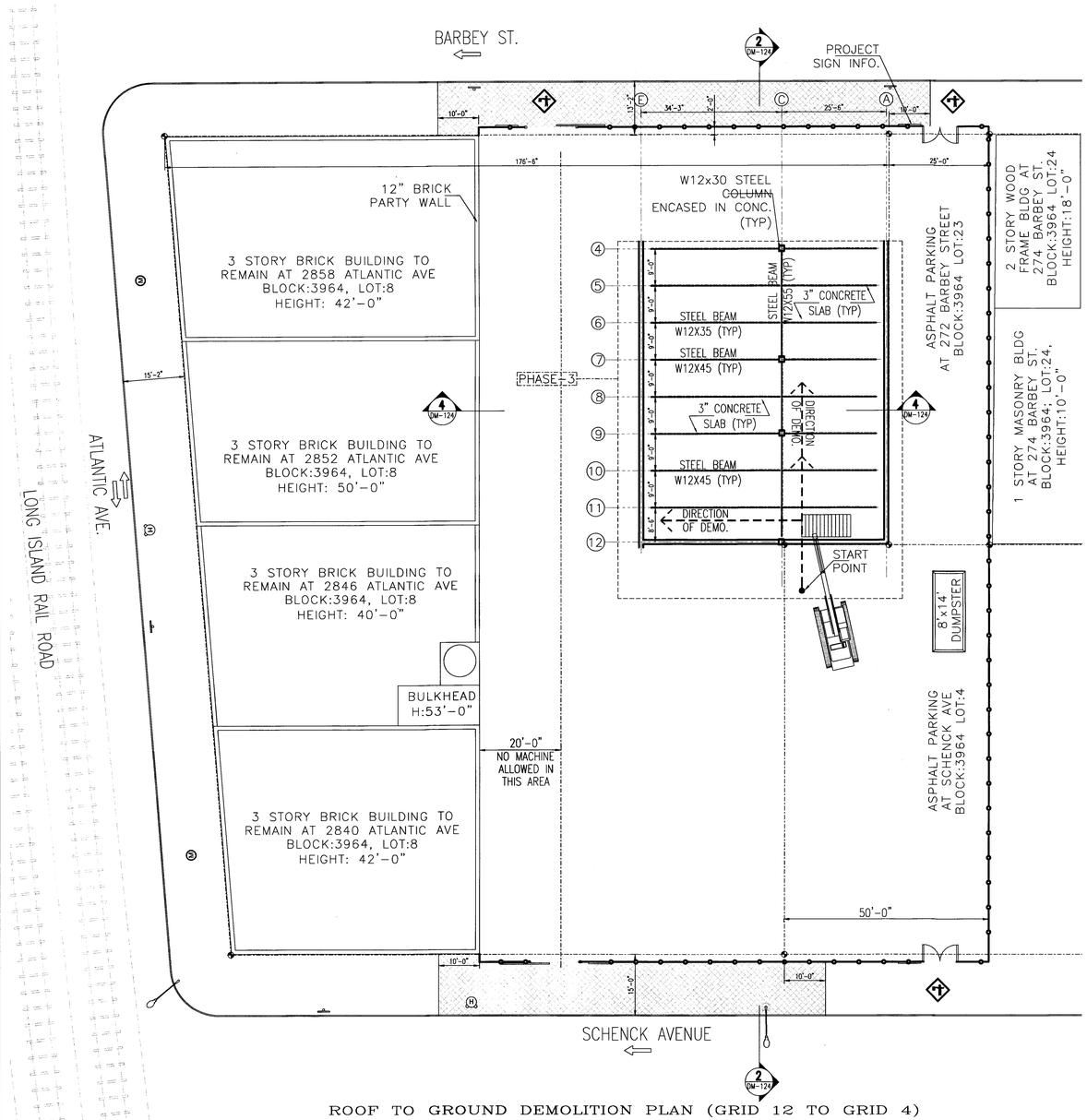
MECH'L DEMOLITION SECTIONS (PHASE-3) STEP "J"

SEAL & SIGNATURE

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-122.00

SHEET 23 OF 34

DEPT BLDGS Job No. 321836778
Scan Code ESHS2315319



ROOF TO GROUND DEMOLITION PLAN (GRID 12 TO GRID 4)

SCALE: 1/16"= 1'-0"

SEQUENCE OF DEMOLITION:

FULL MECHANICAL DEMOLITION

STEP-"J":

J.2 REMOVE ROOF TO GROUND BY MECHANICAL MEANS
J.2.1. STARTING AT SOUTH-WEST CORNER OF THE BUILDING AND FOLLOWING THE DIRECTION OF DEMOLITION FOR MACHINE (SEE PLAN) PROCEED WITH FULL MECHANICAL DEMOLITION BAY-BY-BAY UNTIL THE STRUCTURE IS FULLY DEMOLISHED.
(SEE GRAPHICAL SEQUENCE DM-123.00).

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS APPROVED DEMOLITION DEPT
APR 25 2019
NAWEED CHAUDHRI

ENGINEER

H+O
ENGINEERING, DPC
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T: (347) 639-0669

PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

MECH'L DEMOLITION PLAN (PHASE-3) STEP "J"

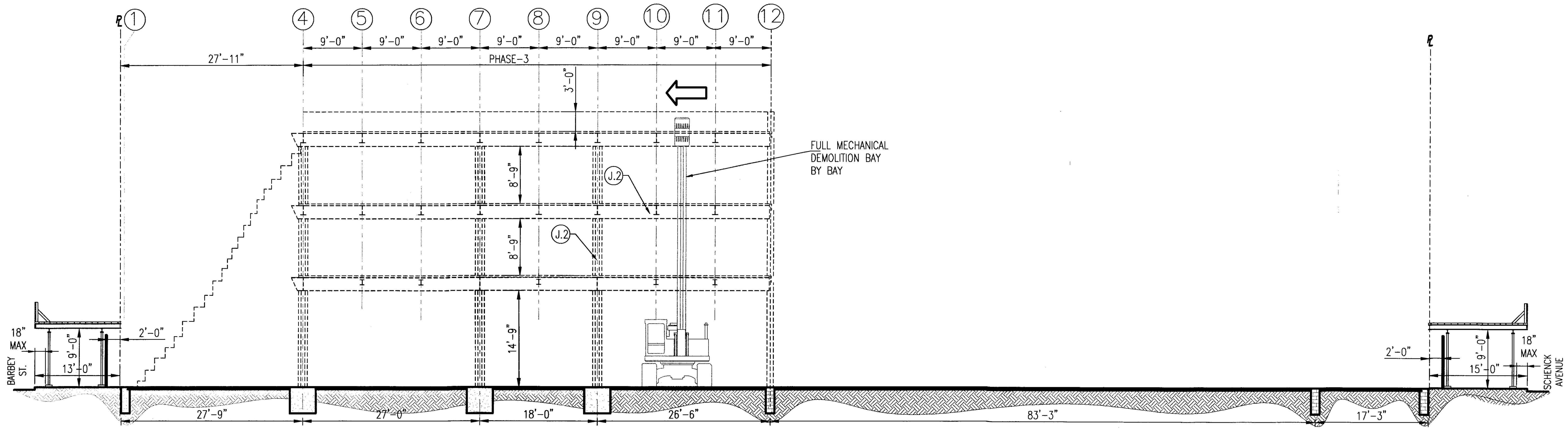
SEAL & SIGNATURE

STATE OF NEW YORK · NAWEED E. NIZAMI · LICENSED PROFESSIONAL ENGINEER

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-123.00

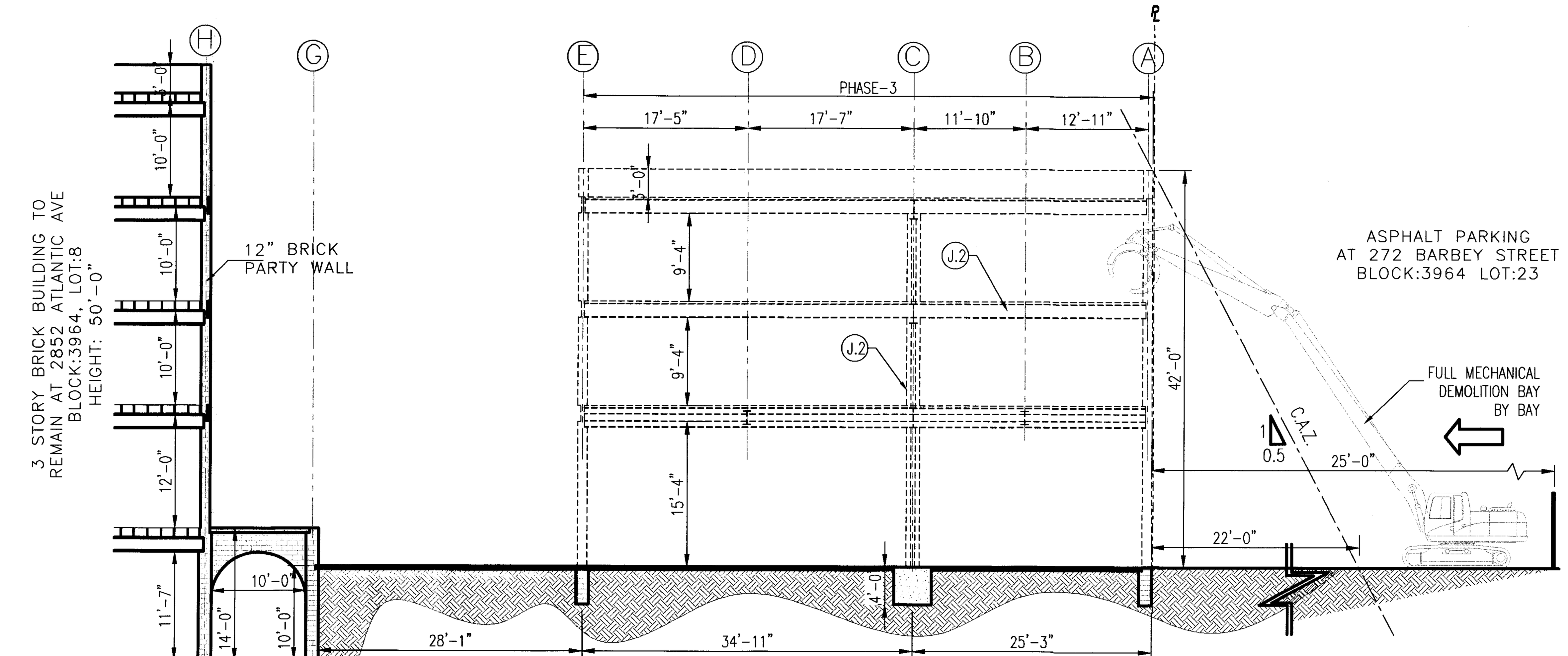
SHEET 24 OF 34

DEPT BLDGS Job No: 321836778
Scan Code
ESHS6197654



DEMOLITION SECTION 2 STEP-J.2

SCALE: 3/32" = 1'-0"



DEMOLITION SECTION 4 -STEP-J.2

SCALE: 5/64" = 1'-0"

SEQUENCE OF DEMOLITION:

FULL MECHANICAL DEMOLITION

STEP-"J":

J.2 REMOVE ROOF TO GROUND BY MECHANICAL MEANS
J.2.1. STARTING AT SOUTH-WEST CORNER OF THE BUILDING AND FOLLOWING THE DIRECTION OF DEMOLITION FOR MACHINE (SEE PLAN) PROCEED WITH FULL MECHANICAL DEMOLITION BAY-BY-BAY UNTIL THE STRUCTURE IS FULLY DEMOLISHED.
(SEE GRAPHICAL SEQUENCE DM-123.00).

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION/CSC
APR 25 2019
NAWEED CHAUDHRI

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H+O ENGINEERING, DPC
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PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

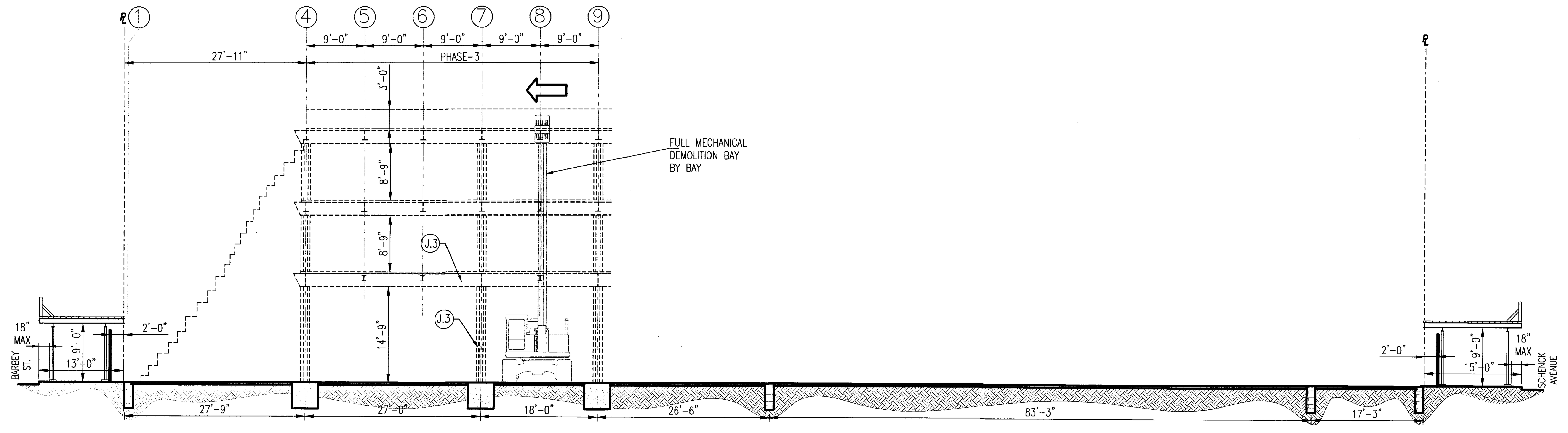
MECH'L DEMOLITION SECTIONS (PHASE-3) STEP "J"

SEAL & SIGNATURE

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-124.00

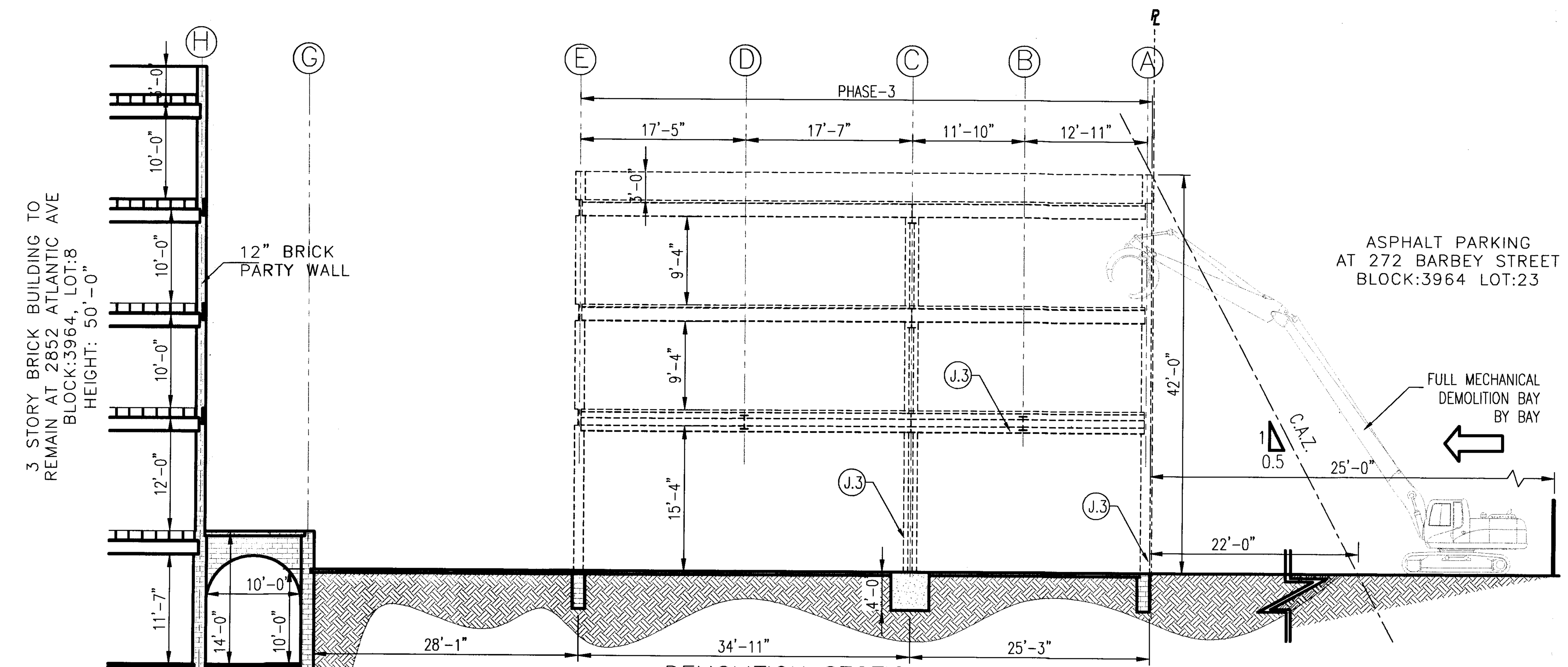
DEPT BLDGS Job No. 321836778
Scan Code ESHS3158155

SHEET 25 OF 34



DEMOLITION SECTION 2 STEP-J.3

SCALE: 3/32" = 1'-0"



DEMOLITION SECTION 4 -STEP-J.3

SCALE: 5/64" = 1'-0"

SEQUENCE OF DEMOLITION:

FULL MECHANICAL DEMOLITION

STEP-"J":

J.3 REMOVE ROOF TO GROUND BY MECHANICAL MEANS
J.3.1. STARTING AT SOUTH-WEST CORNER OF THE BUILDING AND FOLLOWING THE DIRECTION OF DEMOLITION FOR MACHINE (SEE PLAN) PROCEED WITH FULL MECHANICAL DEMOLITION BAY-BY-BAY UNTIL THE STRUCTURE IS FULLY DEMOLISHED.
(SEE GRAPHICAL SEQUENCE DM-125.00).

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS APPROVED DEMOLITION/CSC
APR 25 2019
NAWEED CHAUDHRI

ENGINEER

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PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

MECH'L DEMOLITION SECTIONS (PHASE-3) STEP "J"

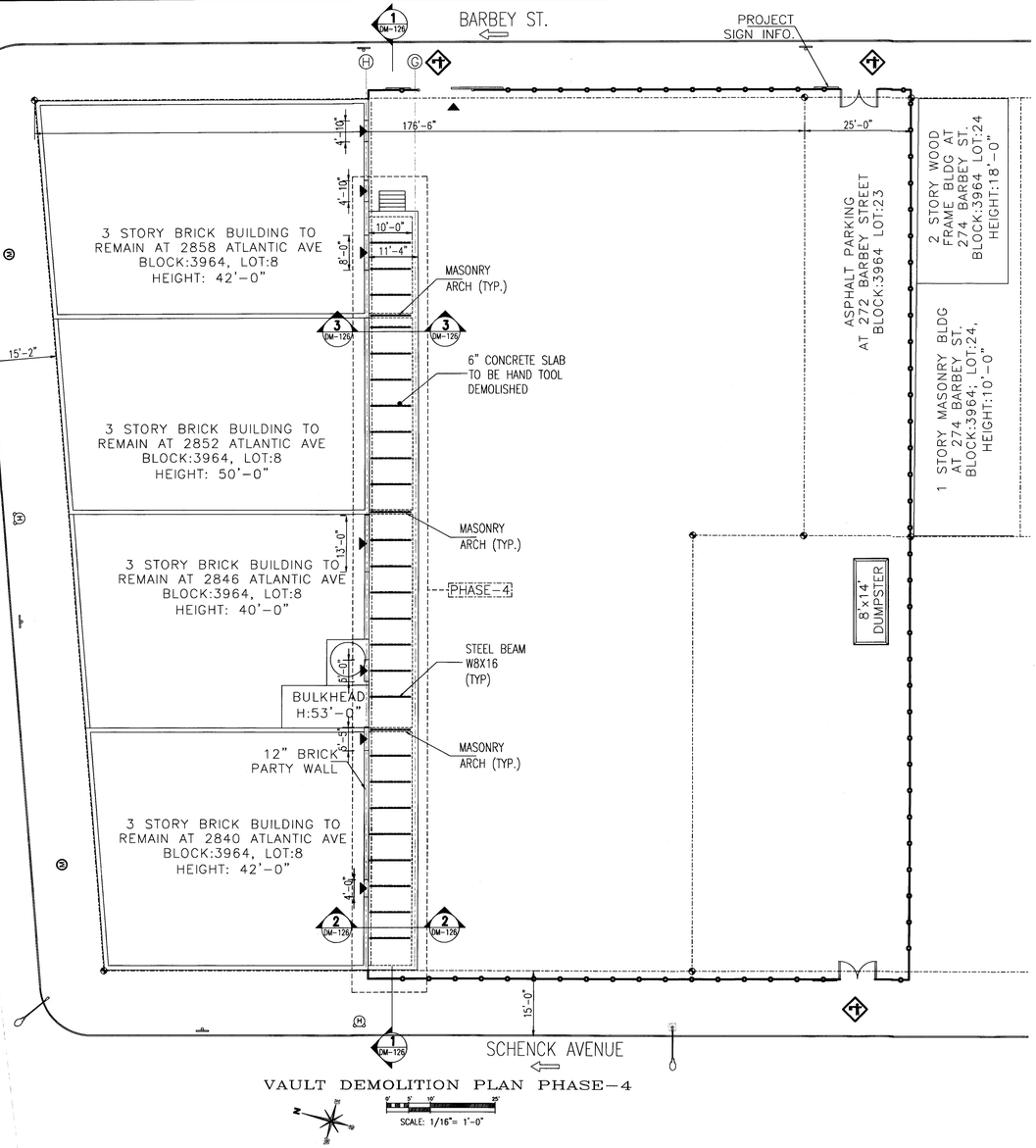
SEAL & SIGNATURE

STATE OF NEW YORK · LICENSED PROFESSIONAL ENGINEER

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-125.00

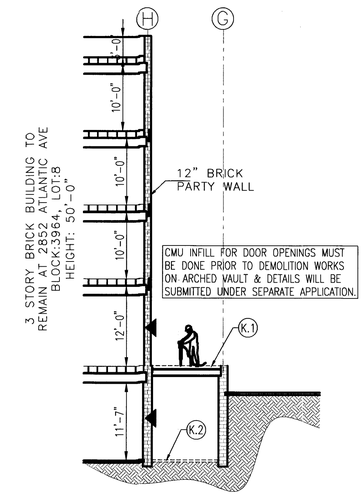
SHEET 26 OF 34

DEPT BLDGS Job No: 321836778
Scan Code ESHS9357661



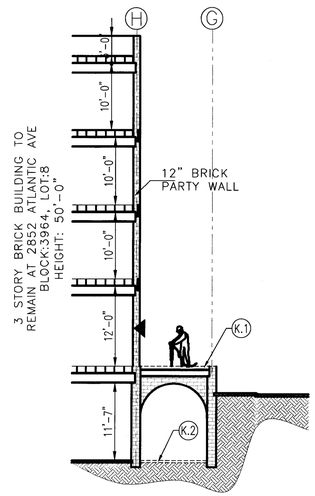
VAULT DEMOLITION PLAN PHASE-4

SCALE: 1/16"= 1'-0"



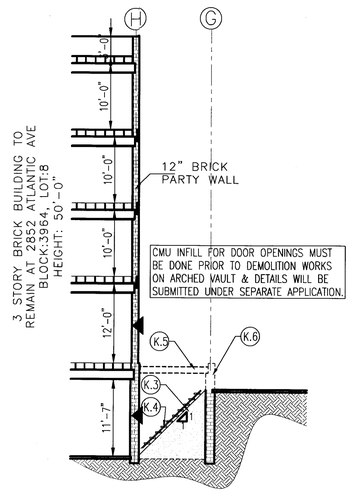
DEMOLITION SECTION 2 –STEP–K.1

SCALE: 5/64" = 1'-0"



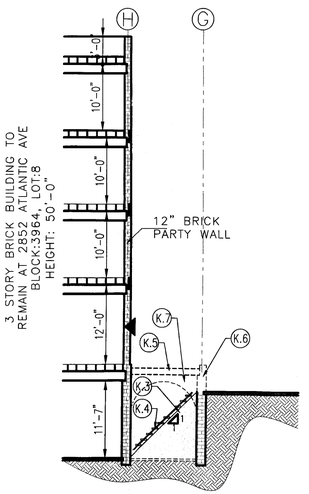
DEMOLITION SECTION 3 –STEP–K.1

SCALE: 5/64" = 1'-0"



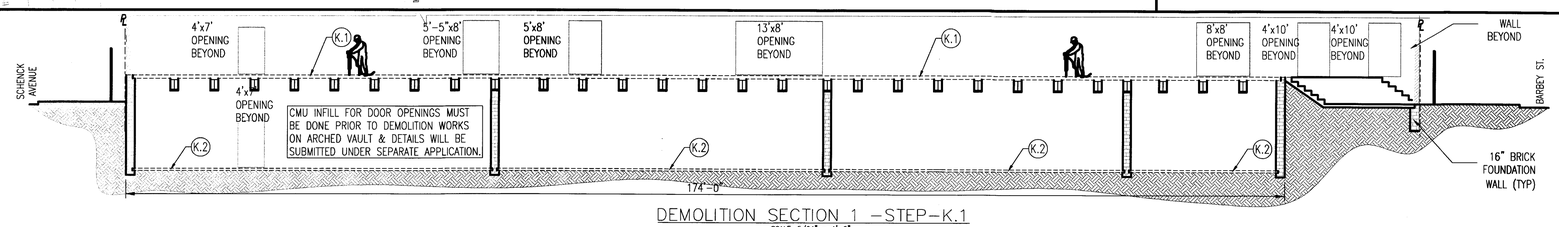
DEMOLITION SECTION 2 –STEP–K.2

SCALE: 5/64" = 1'-0"



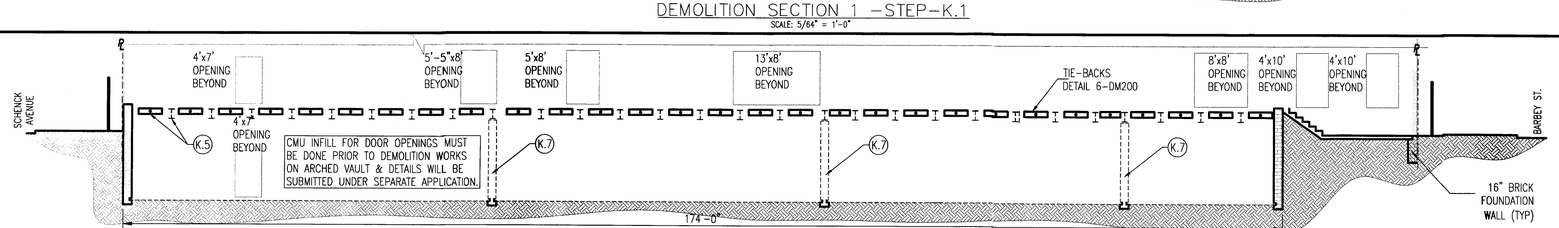
DEMOLITION SECTION 3 –STEP–K.2

SCALE: 5/64" = 1'-0"



DEMOLITION SECTION 1 –STEP–K.1

SCALE: 5/64" = 1'-0"



DEMOLITION SECTION 1 –STEP–K.2

SCALE: 5/64" = 1'-0"

SEQUENCE OF DEMOLITION:

STEP "K": DEMOLITION OF VAULT.

K.1 HAND TOOL REMOVE CONCRETE SLAB.
K.2 HAND TOOL CRUSH/BREAK EXISITNG SLAB ON GRADE TO PERMIT FREE DRAINAGE AND PREVENT THE ACCUMULATION OF WATER.
K.3 BEFORE FIRST FLOOR FRAMING REMOVAL CONTRACTOR MUST INTALL 1:1 SLOPE BERM WITH CLEAN MATERIAL.
K.4 INSTALL PROVISIONAL LADDER.
K.5 FROM WEST TO EAST, REMOVE STEEL BEAM BETWEEN GRID LINE "H" & "G" ONE AT A TIME AND SIMULTANEOUSLY INSTALL TIE-BACK AS PER DETAIL 6 ON DM-200.
K.5.1 USING ROUST-A-BOUT, TIE THE STEEL BEAM BETWEEN GRID LINE "H" & "G" AS PER DETAIL 3 ON DM-200.
K.5.2 BURN CUT ON THE EDGES AS ONE FOOT AWAY USING MOVABLE SCAFFOLD OR MANLIFT
K.5.3 BRING DOWN THE STEEL BEAM TO BASEMENT LEVEL.
K.6 FROM WEST TO EAST HAND TOOL REMOVE PORTION OF LATERAL WALL DOWN TO THE SAME ADJACENT GROUND LEVEL.
K.7 HAND TOOL REMOVE REMAINING ARCH MASONRY WALL DOWN TO BASEMENT LEVEL.

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION/CSC
APR 25 2019
NAWEED CHAUDHRI

ENGINEER
HHO
ENGINEERING, DPC
44-02 11TH STREET, OFFICE 406
LONG ISLAND CITY, NY 11101
T: (347) 639-0669

PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

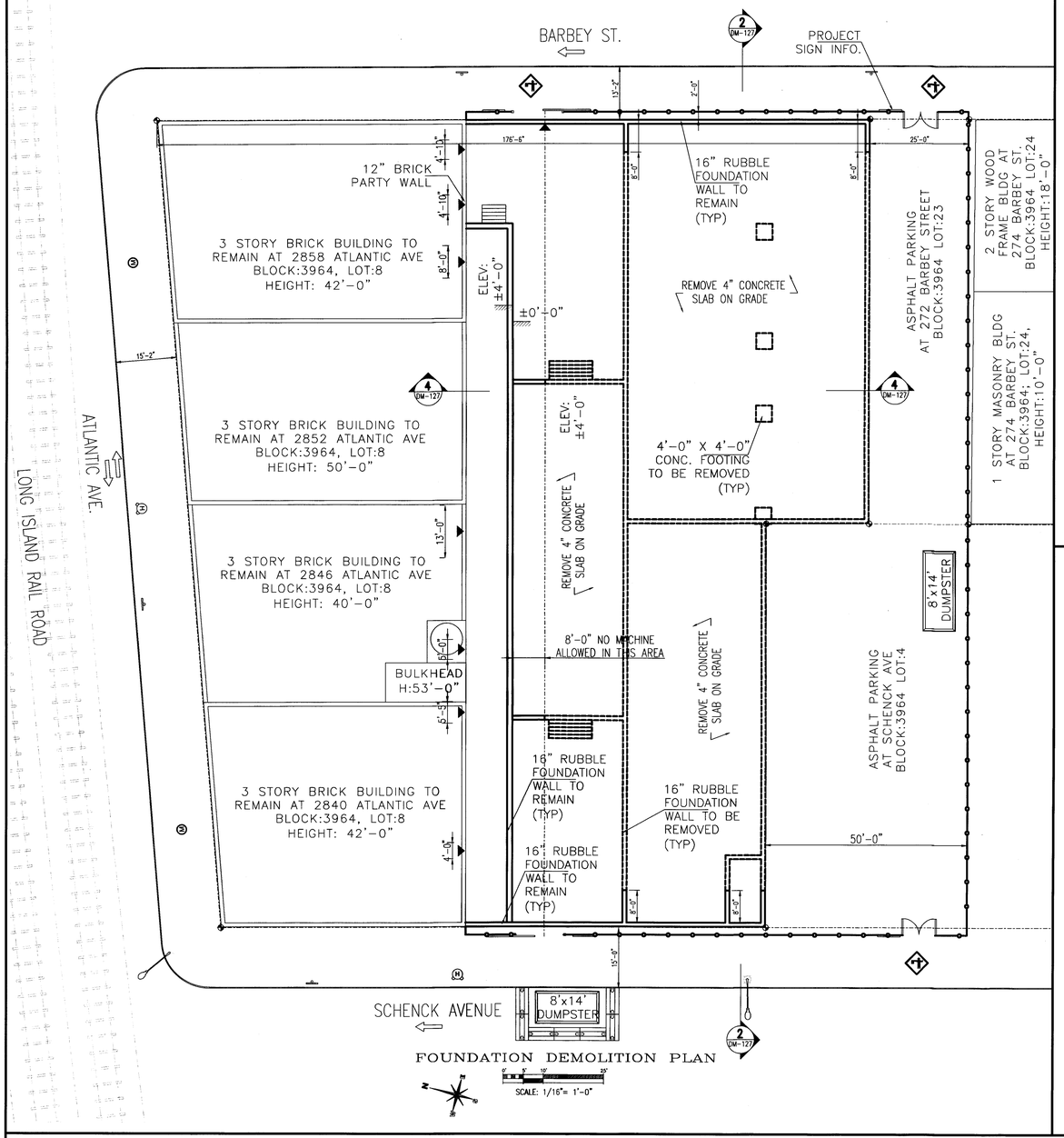
VAULT DEMOLITION PLAN & SECTIONS (PHASE-4) STEP "K"

SEAL & SIGNATURE

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-126.00

SHEET 27 OF 34

DEPT BLDGS Job No. 321836778
Scan Code ESHS8280656



FOUNDATION DEMOLITION PLAN

SCALE: 1/16"= 1'-0"

SEQUENCE OF DEMOLITION:

STEP "L": DEMOLITION OF FIRST FLOOR .

L.1 PORTION OF FOUNDATION WILL REMAIN IN PLACE TO PRESERVE THE STRUCTURAL STABILITY OF ADJACENT BUILDING AND SIDEWALK AS SHOWN ON DM-127.
L.2 REMAINING FOUNDATION WILL BE REMOVED USING MECHANICAL MEANS AS PER FOUNDATION PLAN DM-128.
L.3 SLAB ON GRADE AND ASPHALT PAVEMENT MUST BE CRUSHED & REMOVED AND THE SITE MUST BE BACKFILLED AND GRADED WITH CLEAN MATERIAL.
L.3.1. MECHANICAL EQUIPMENT CANNOT OPERATE WITHIN 8'-0" OF SIDEWALK.

REQUEST TO WAIVE REMOVAL OF PORTION OF FOUNDATION

1) REQUEST TO WAIVE CODE SECTION 3306.10 REMOVAL OF FOUNDATIONS AND SLABS: WHERE A BUILDING, OR ANY PORTION, HAS BEEN DEMOLISHED TO GRADE, THE FLOOR SLAB OR FOUNDATION OF SUCH BUILDING, OR PORTION, SHALL BE REMOVED AND THE SITE BACKFILLED TO GRADE.

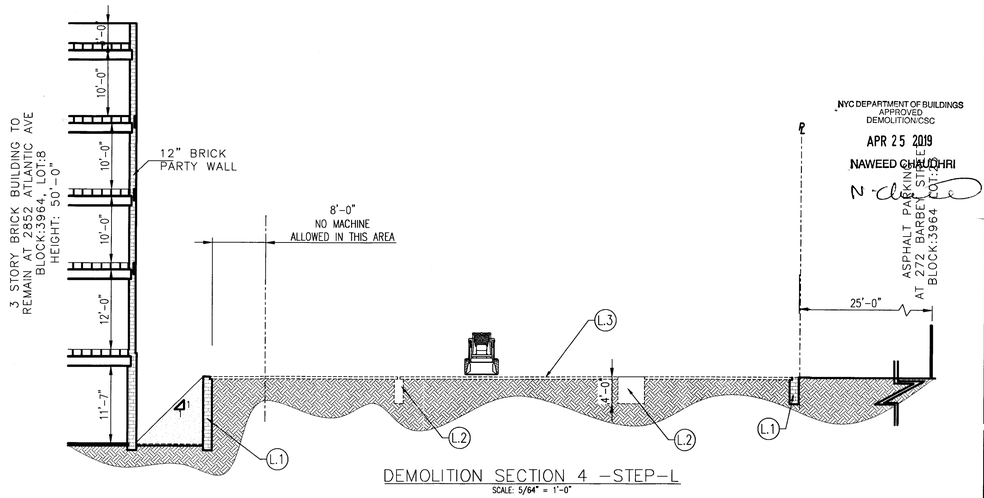
2) PORTION FOUNDATION FACING SIDEWALK WILL REMAIN TO PROVIDE STABILITY TO ADJACENT BUILDING AND THE SIDEWALK.

3) THE SITE WILL BE BACKFILLED WITH CLEAN MATERIAL UP TO GRADE.

4) EXISTING SLAB-ON-GRADE WILL BE REMOVED AND THE SITE WILL BE BACKFILLED TO GRADE WITH CLEAN MATERIAL. PERIODIC INSPECTIONS ARE NOT REQUIRED.

5) APPROVED DEMOLITION DRAWINGS SHOWING REMAINING FOUNDATIONS MUST BE PROVIDED TO THE OWNER. REMAINING FOUNDATION ELEMENTS MUST BE DEPICTED ON ANY FUTURE SOE DOCUMENTS.

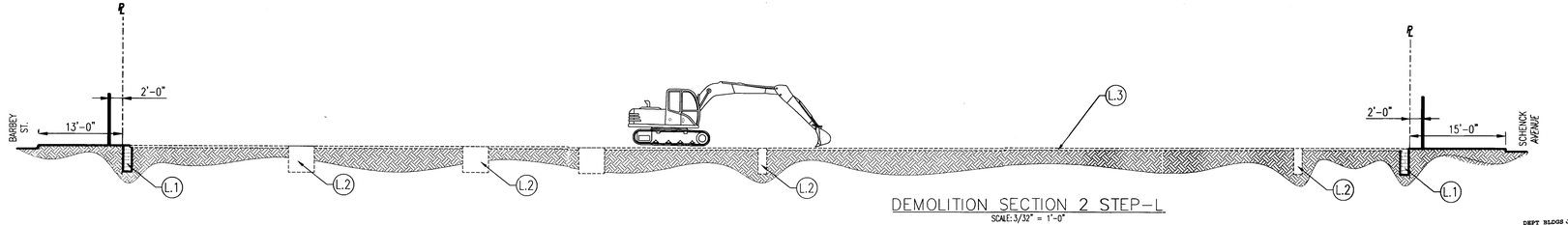
6) THIS FOUNDATION WAIVER REQUEST SATISFIES THE REQUIREMENTS OUTLINED ON NYC DOB "DEMOLITION OF BACKFILL AND/OR FOUNDATION REMOVAL NOTICE" ISSUED ON JULY 2014.



DEMOLITION SECTION 4 –STEP–L

SCALE: 5/64" = 1'-0"

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION/CSC
APR 25 2019
NAWEED CHAUDHRI



DEMOLITION SECTION 2 STEP–L

SCALE: 3/32" = 1'-0"

DEPT BUDS Job No. 321836778
Scan Code ESHS0105407

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION/CSC
APR 25 2019
NAWEED CHAUDHRI

ENGINEER

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T: (347) 639-0669

PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

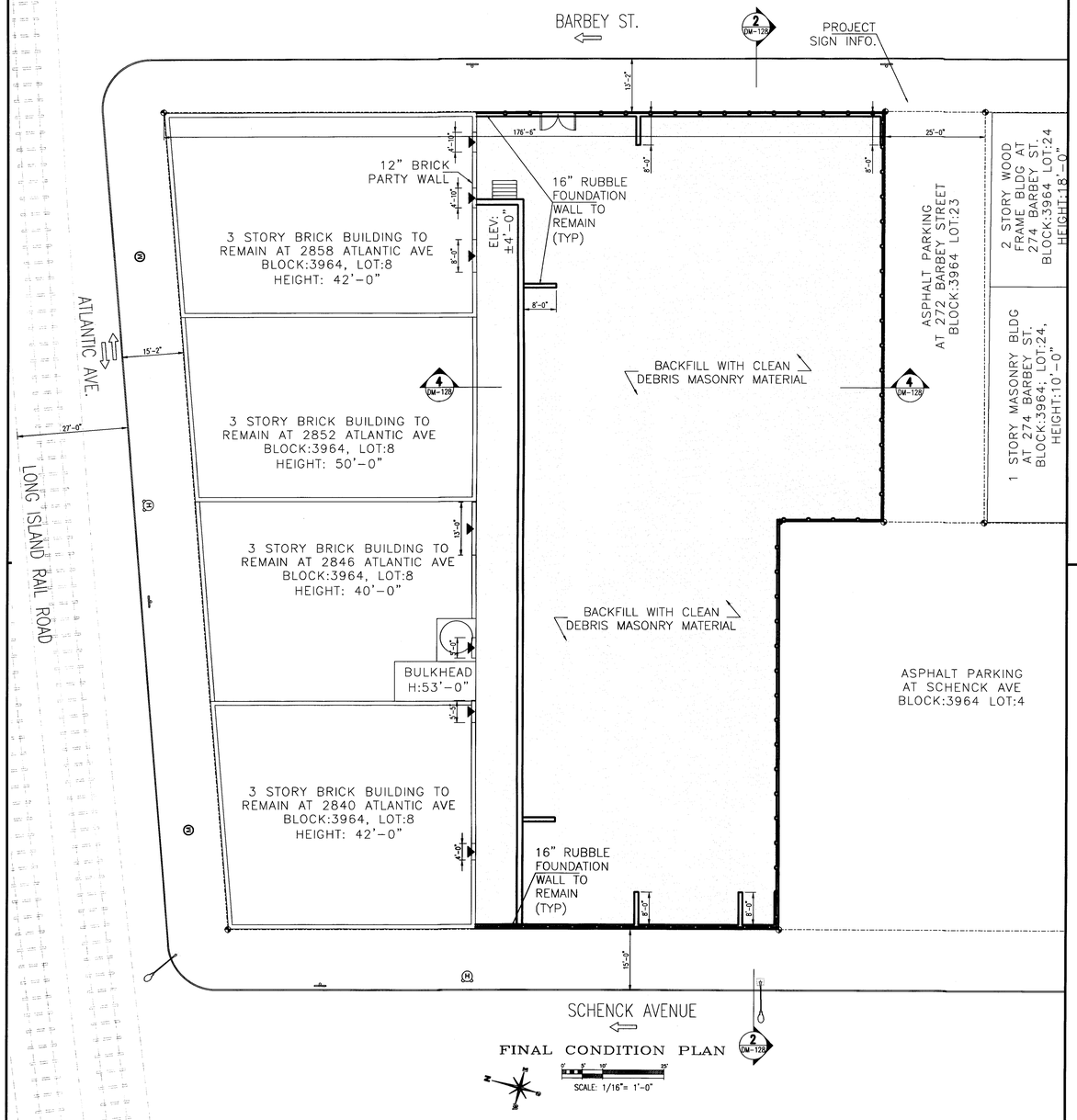
FOUNDATION DEMOLITION PLAN AND SECTIONS

SEAL & SIGNATURE

STATE OF NEW YORK · SANTIAGO E. HELMAN · LICENSED PROFESSIONAL ENGINEER

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-127.00

SHEET 28 OF 34



FINAL CONDITION PLAN

SCALE: 1/16"= 1'-0"

SEQUENCE OF DEMOLITION:

STEP "L": DEMOLITION OF FIRST FLOOR .

L.1 PORTION OF FOUNDATION WILL REMAIN IN PLACE TO PRESERVE THE STRUCTURAL STABILITY OF ADJACENT BUILDING AND SIDEWALK AS SHOWN ON DM-127.
L.2 REMAINING FOUNDATION WILL BE REMOVED USING MECHANICAL MEANS AS PER FOUNDATION PLAN DM-128.
L.3 SLAB ON GRADE AND ASPHALT PAVEMENT MUST BE CRUSHED & REMOVED AND THE SITE MUST BE BACKFILLED AND GRADED WITH CLEAN MATERIAL.
L.3.1. MECHANICAL EQUIPMENT CANNOT OPERATE WITHIN 8'-0" OF SIDEWALK.

REQUEST TO WAIVE REMOVAL OF PORTION OF FOUNDATION

1) REQUEST TO WAIVE CODE SECTION 3306.10 REMOVAL OF FOUNDATIONS AND SLABS: WHERE A BUILDING, OR ANY PORTION, HAS BEEN DEMOLISHED TO GRADE, THE FLOOR SLAB OR FOUNDATION OF SUCH BUILDING, OR PORTION, SHALL BE REMOVED AND THE SITE BACKFILLED TO GRADE.

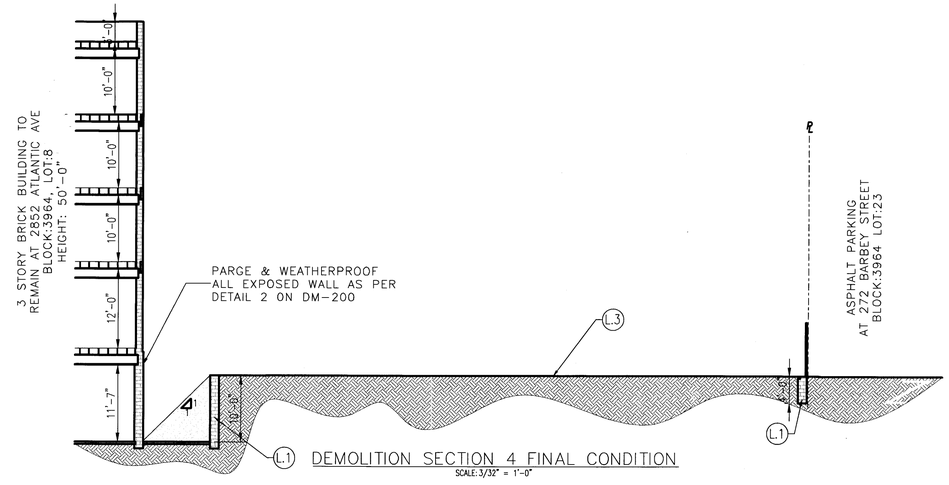
2) PORTION FOUNDATION FACING SIDEWALK WILL REMAIN TO PROVIDE STABILITY TO ADJACENT BUILDING AND THE SIDEWALK.

3) THE SITE WILL BE BACKFILLED WITH CLEAN MATERIAL UP TO GRADE.

4) EXISTING SLAB-ON-GRADE WILL BE REMOVED AND THE SITE WILL BE BACKFILLED TO GRADE WITH CLEAN MATERIAL. PERIODIC INSPECTIONS ARE NOT REQUIRED.

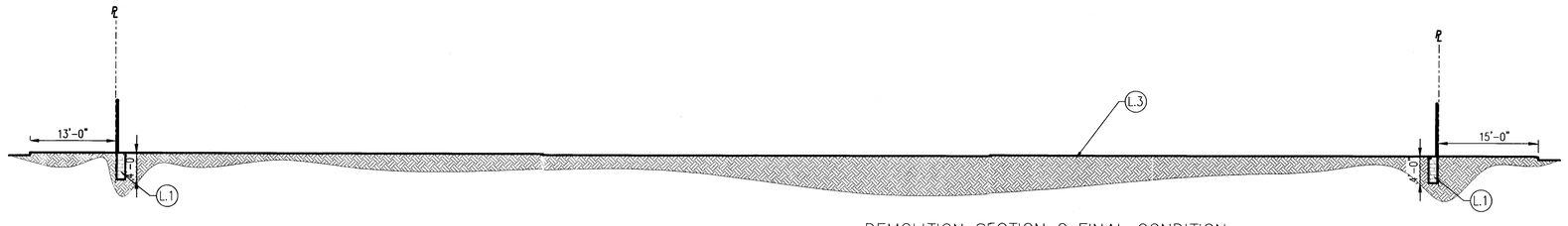
5) APPROVED DEMOLITION DRAWINGS SHOWING REMAINING FOUNDATIONS MUST BE PROVIDED TO THE OWNER. REMAINING FOUNDATION ELEMENTS MUST BE DEPICTED ON ANY FUTURE SOE DOCUMENTS.

6) THIS FOUNDATION WAIVER REQUEST SATISFIES THE REQUIREMENTS OUTLINED ON NYC DOB "DEMOLITION OF BACKFILL AND/OR FOUNDATION REMOVAL NOTICE" ISSUED ON JULY 2014.



DEMOLITION SECTION 4 FINAL CONDITION

SCALE: 3/32" = 1'-0"



DEMOLITION SECTION 2 FINAL CONDITION

SCALE: 3/32" = 1'-0"

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION
APR 25 2019
NAWEED CHAUDHRI

ENGINEER

HTO
ENGINEERING, DPC
44-02 11TH STREET, OFFICE 406
LONG ISLAND CITY, NY 11101
T: (347) 639-0669

PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

FINAL CONDITION PLAN AND SECTIONS

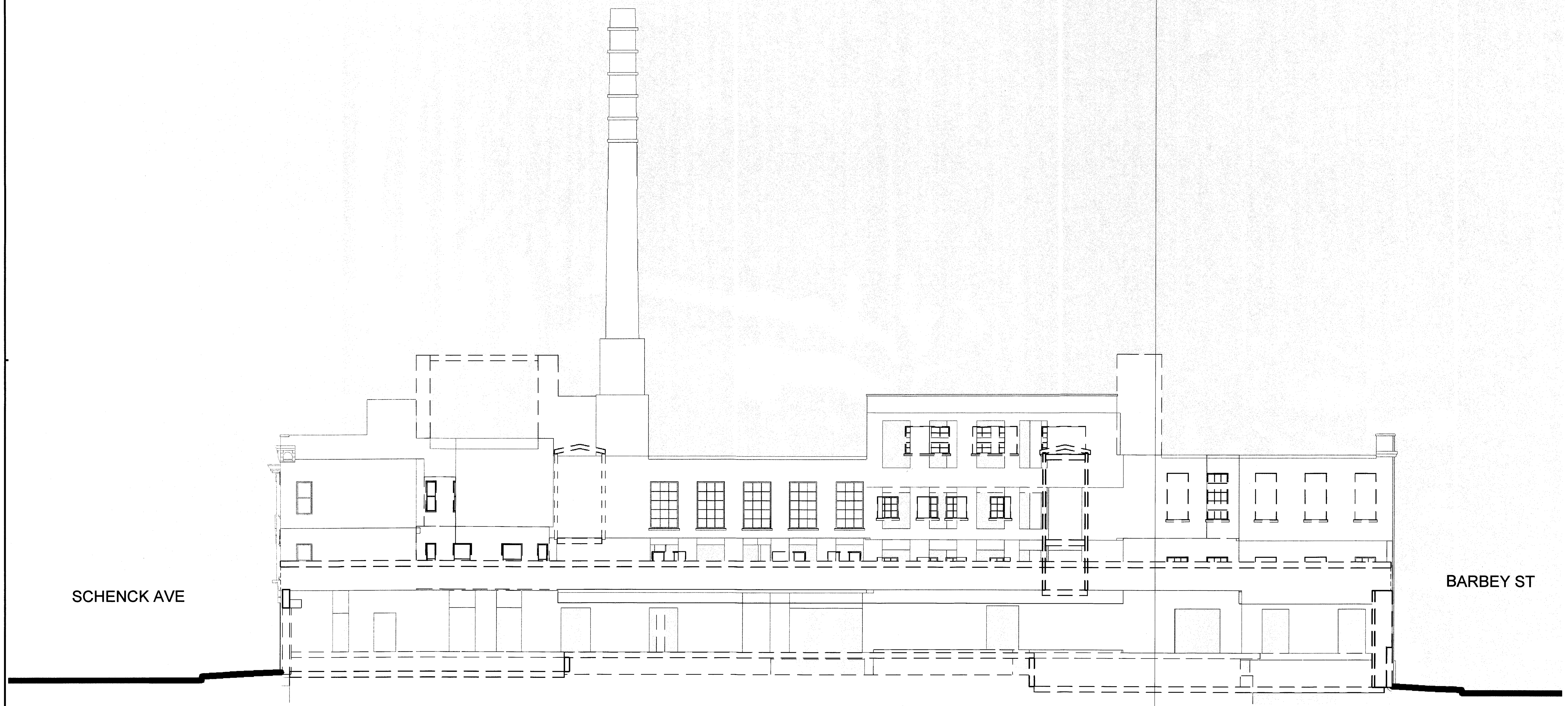
SEAL & SIGNATURE

STATE OF NEW YORK · SANTIAGO E. NELSON · LICENSED PROFESSIONAL ENGINEER

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-128.00

SHEET 29 OF 34

DEPT BLDGS Job No.: 321836778
Scan Code ESHS7104871



SOUTH ELEVATION - EXISTING

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMO
APR 25 2019
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ENGINEER

H+O ENGINEERING, DPC
44-02 11TH STREET, OFFICE 406
LONG ISLAND CITY, NY 11101
T: (347) 639-0669

PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

FINAL CONDITION
SOUTH ELEVATION

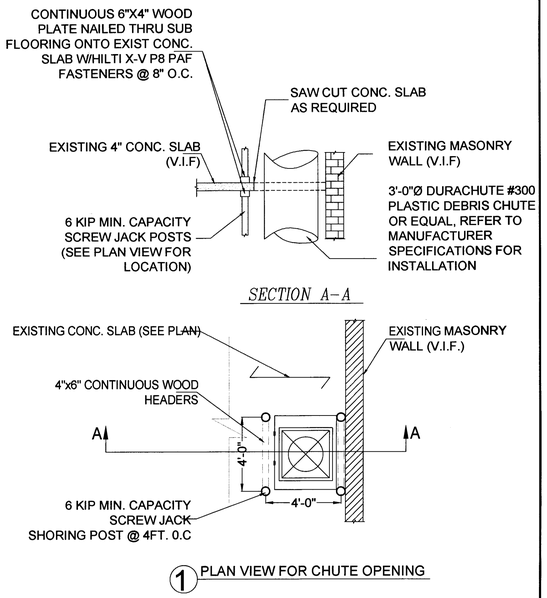
SEAL & SIGNATURE

STATE OF NEW YORK
LICENSED PROFESSIONAL ENGINEER

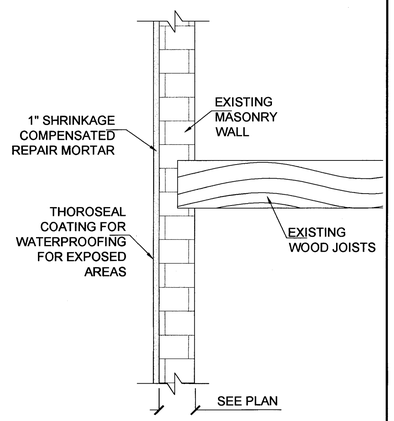
DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-129.00

SHEET 30 OF 34

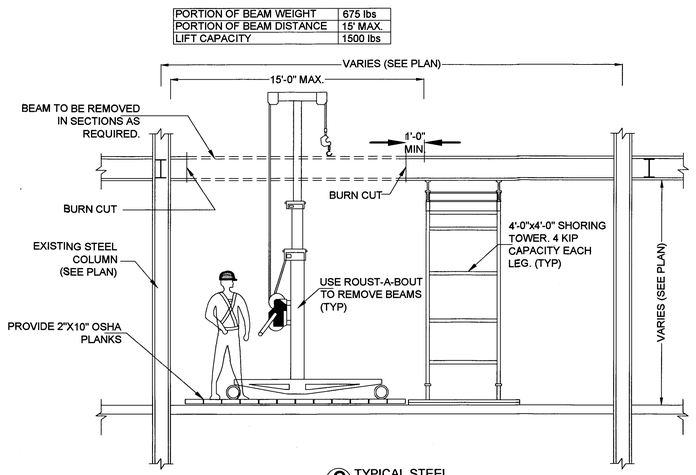
DEPT BLDGS Job No. 321836778
Scan Code ESHS9940535



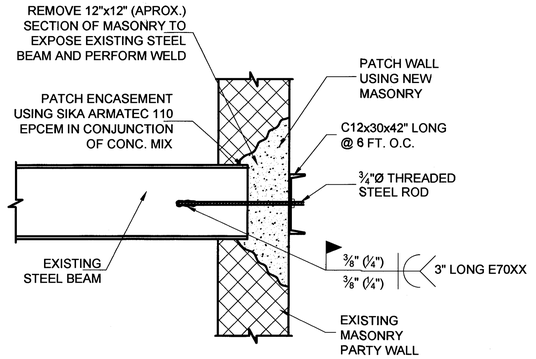
1 PLAN VIEW FOR CHUTE OPENING



2 WATERPROOFING DETAIL



3 TYPICAL STEEL BEAM REMOVAL



NOTE:
TIE-BACKS HAVE TO BE INSTALLED AT ALL EXISTING STEEL BEAMS THAT ARE BETWEEN BRICK COLUMNS.

6 TYPICAL TIE-BACK DETAIL

LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
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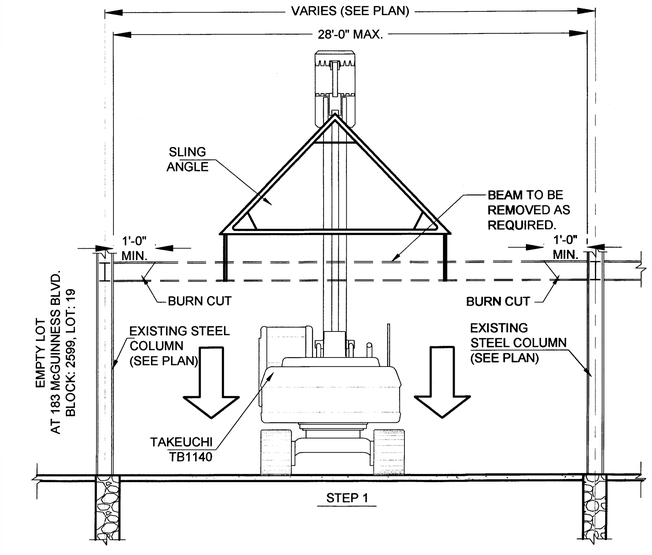
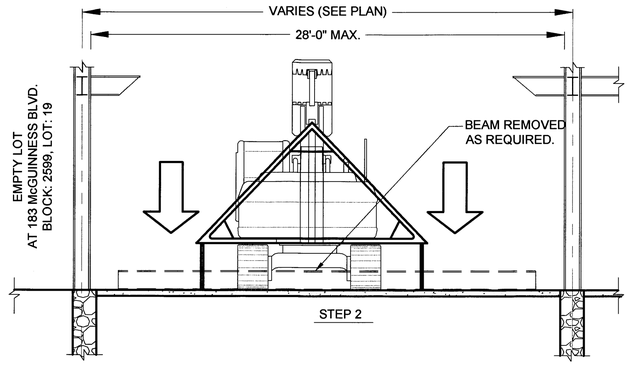
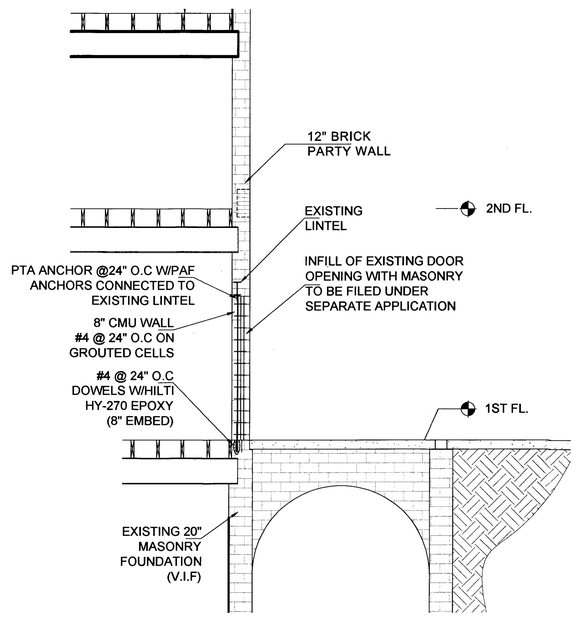
No.	REVISION COMMENT	DATE



PORTION OF BEAM WEIGHT	1540 lbs
PORTION OF BEAM DISTANCE	28' MAX.
LIFT CAPACITY	6680 lbs



4 TYPICAL STEEL BEAM REMOVAL WITH THE EXCAVATOR



5 DOOR OPENING INFILL DETAILS

DEPT BLDGS Job No: 321836778
BCAD Code ESMIS0987416

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION/CSC
APR 25 2019
NAWEED CHAUDHRI

ENGINEER

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ENGINEERING, DPC
44-02 11TH STREET, OFFICE 406
LONG ISLAND CITY, NY 11101
T: (347) 639-0669

PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

PROTECTION DETAILS

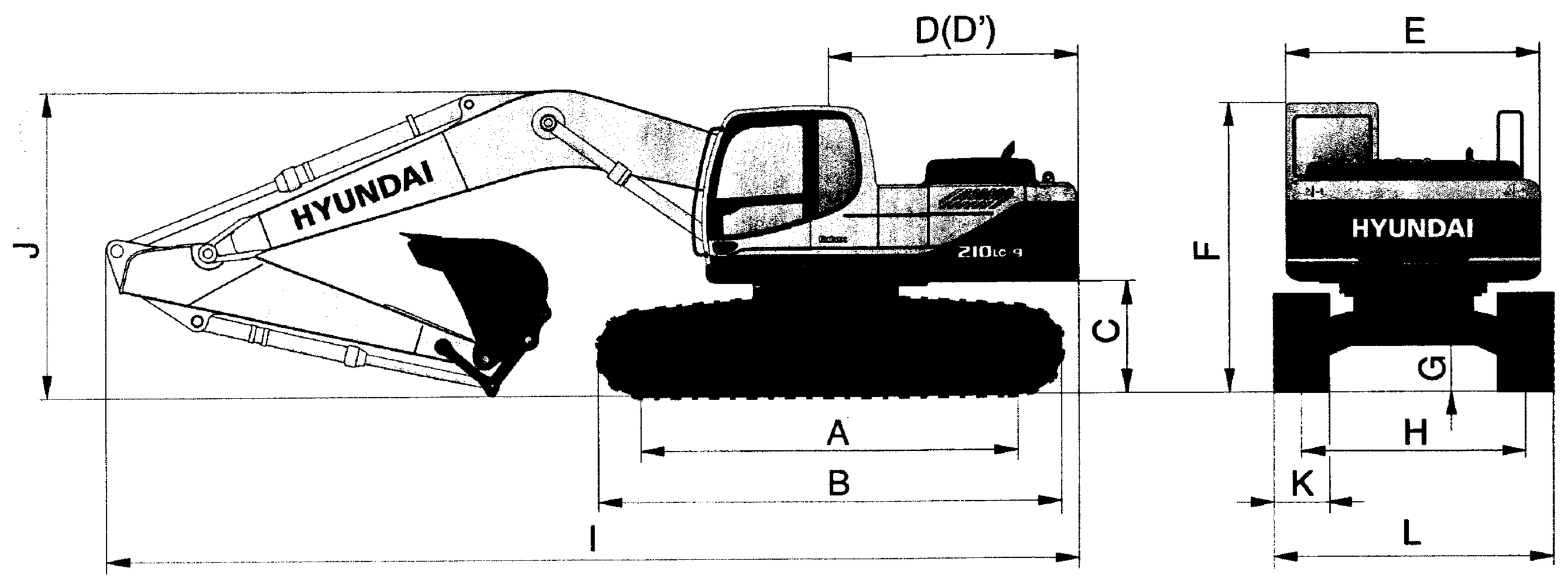
SEAL & SIGNATURE

STATE OF NEW YORK · SHAHZAD E. HELMI · LICENSED PROFESSIONAL ENGINEER

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-200.00

Dimensions & Working Range

R210LC-9 DIMENSIONS



Unit : mm (ft · in)

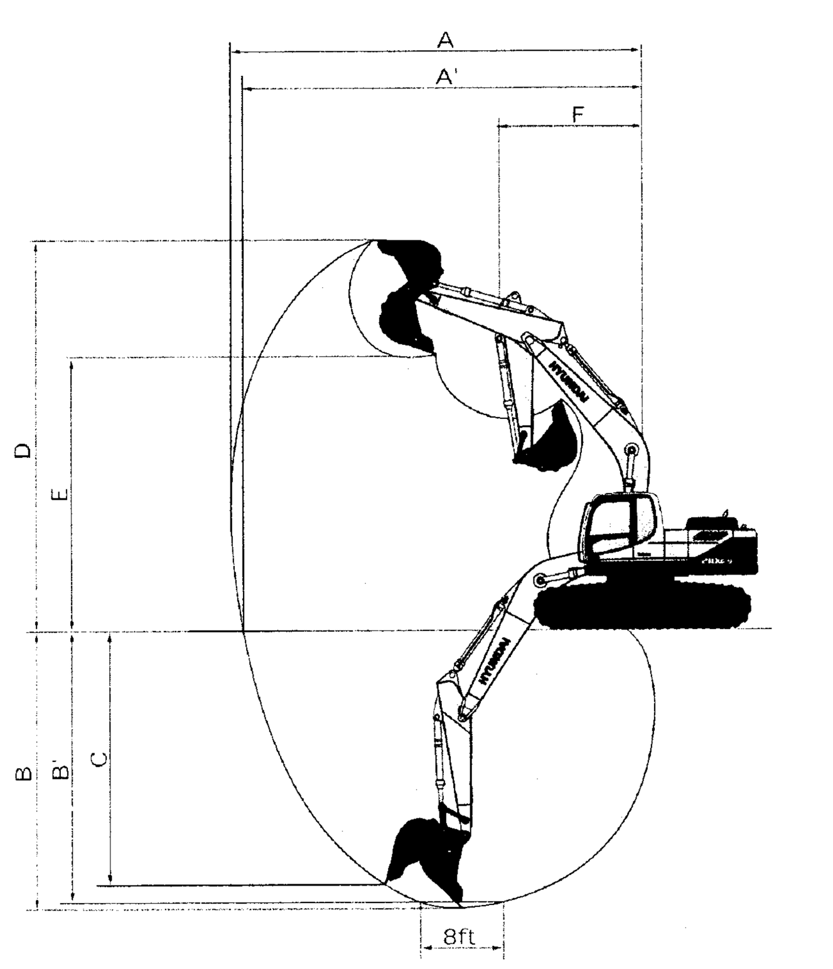
A Tumbler distance	3,650 (12' 0")
B Overall length of crawler	4,440 (14' 7")
C Ground clearance of counterweight	1,060 (3' 6")
D Tail swing radius	2,830 (9' 3")
D' Rear-end length	2,770 (9' 1")
E Overall width of upperstructure	2,740 (9' 0")
F Overall height of cab	2,920 (9' 7")
G Min. ground clearance	480 (1' 7")
H Track gauge	2,390 (7' 10")

Boom length	5,680 (18' 8")				8,200 (26' 11")
Arm length	2,000 (6' 7")	2,400 (7' 10")	2,920 (9' 7")	3,900 (12' 10")	6,300 (20' 8")
I Overall length	9,650 (31' 8")	9,570 (31' 5")	9,530 (31' 3")	9,520 (31' 3")	12,030 (39' 6")
J Overall height of boom	3,200 (10' 6")	3,110 (10' 2")	3,030 (9' 11")	3,480 (11' 5")	3,280 (10' 9")

K Track shoe width	600 (24")	700 (28")	800 (32")	900 (36")
L Overall width	2,990 (9' 10")	3,090 (10' 2")	3,190 (10' 6")	3,290 (10' 10")

R210LC-9 WORKING RANGE

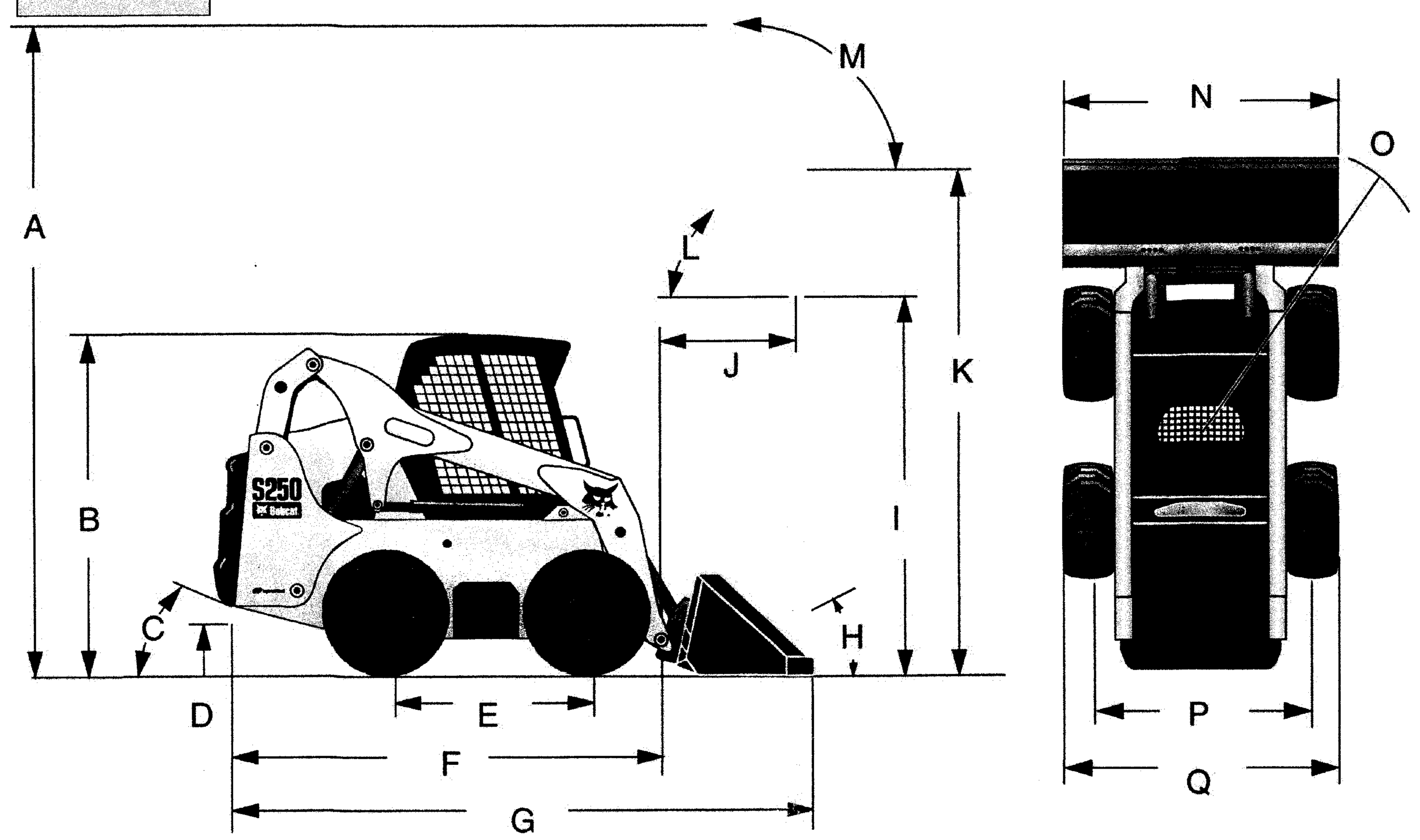
Unit : mm (ft · in)



Boom length	5,680 (18' 8")				8,200 (26' 11")
Arm length	2,000 (6' 7")	2,400 (7' 10")	2,920 (9' 7")	3,900 (12' 10")	6,300 (20' 8")
A Max. digging reach	9,140 (30' 0")	9,500 (31' 2")	9,980 (32' 9")	10,910 (35'10")	15,220 (50' 0")
A' Max. digging reach on ground	8,960 (29' 5")	9,330 (30' 7")	9,820 (32' 3")	10,770 (35' 4")	15,120 (49' 7")
B Max. digging depth	5,820 (19' 1")	6,220 (20' 5")	6,730 (22' 1")	7,720 (25' 4")	11,760 (38' 7")
B' Max. digging depth (8' level)	5,580 (18' 4")	6,010 (19' 9")	6,560 (21' 6")	7,580 (24' 10")	11,650 (38' 3")
C Max. vertical wall digging depth	5,280 (17' 4")	5,720 (18' 9")	6,280 (20' 7")	7,240 (23' 9")	9,610 (31' 6")
D Max. digging height	9,140 (30' 0")	9,340 (30' 8")	9,600 (31' 6")	10,110 (33' 2")	12,550 (41' 2")
E Max. dumping height	6,330 (20' 9")	6,520 (21' 5")	6,780 (22' 3")	7,290 (23' 11")	10,280 (33' 8")
F Min. swing radius	3,750 (12' 4")	3,740 (12' 3")	3,740 (12' 3")	3,650 (11' 12")	4,870 (16' 0")

S250 Skid-Steer Loader Specifications

Dimensions



A) Operating Height .... 160.6" (4079 mm)
B) Height with Operator Cab .... 80.9" (2055 mm)
C) Angle of Departure .... 25°
D) Ground Clearance .... 8.5" (216 mm)
E) Wheelbase .... 48.3" (1227 mm)
F) Length without Attachment .... 114.5" (2908 mm)
G) Length with Standard Bucket........... 142.9" (3630 mm)
H) Rollback @ Carry Position............... 32°
I) Dump Height with Standard Bucket. 99.1" (2517 mm)
J) Dump Reach @ Maximum Height ... 33.8" (859 mm)
K) Height to Bucket Hinge Pin.............. 128.8" (3272 mm)
L) Dump Angle @ Maximum Height ..... 42°
M) Rollback Fully Raised
@ Maximum Height .... 96°

Carry Position.................................9.7" (246 mm)

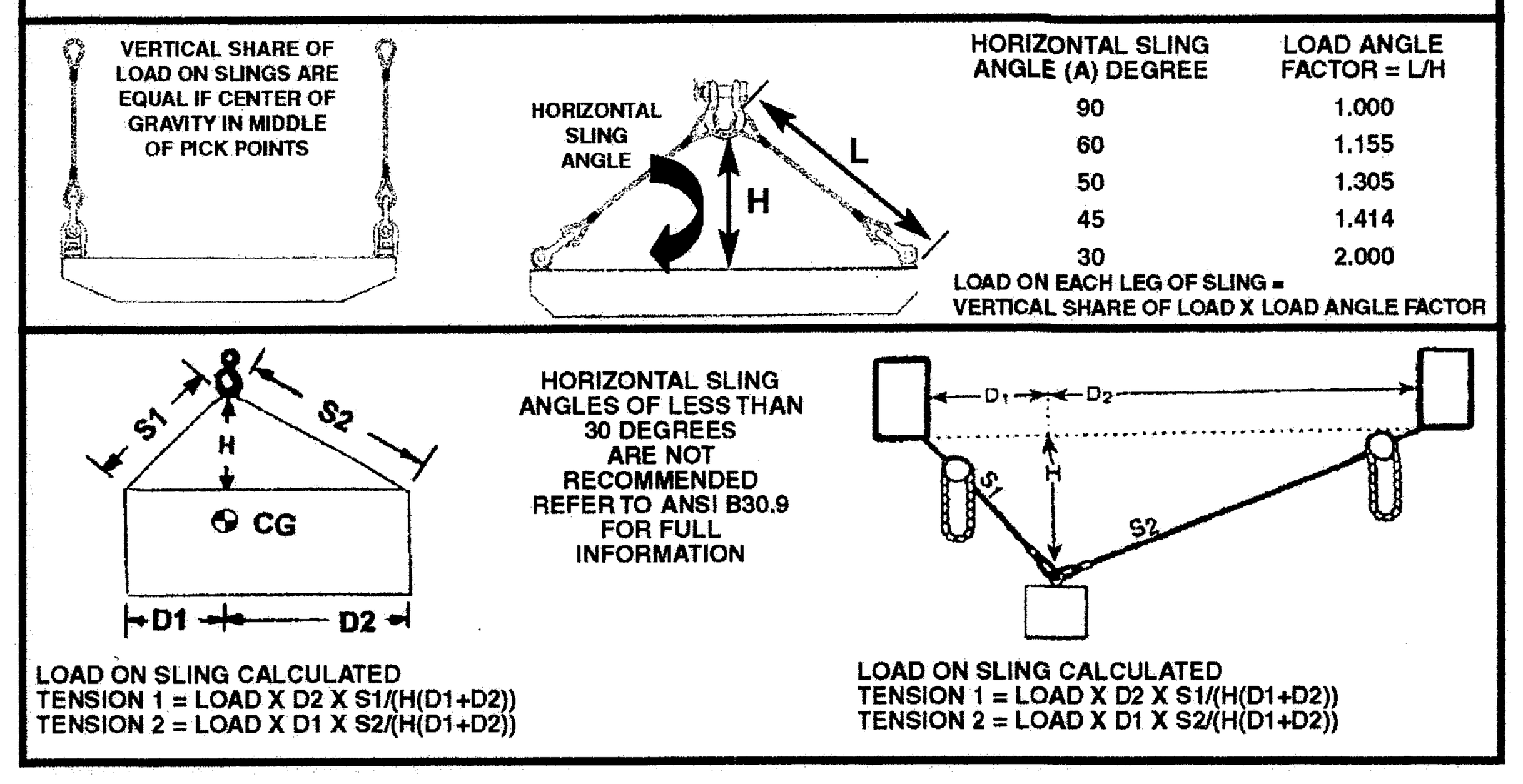
N) Width (over bucket)
68" Bucket .... 68.0" (1727 mm)
74" Bucket .... 74.0" (1880 mm)
80" Bucket .... 80.0" (2032 mm)
O) Turning Radius
with Standard Bucket .... 84.2" (2139 mm)
Rear Clearance of Machine .... 62.2" (1579 mm)
P) Wheel Tread
12-16.5 .... 59.2" (1503 mm)
33 X 15.5-16.5 .... 59.2" (1503 mm)
Q) Width (over tires)
12-16.5 .... 72.0" (1829 mm)
33 X 15.5-16.5 .... 74.0" (1880 mm)

Performance

Rated Operating Capacity (SAE J732) .... 2500 lbs. (1134 kg)
Rated Operating Capacity with Counterweight option .... 2600 lbs. (1179 kg)
Tipping Load (SAE) .... 5661 lbs. (2564 kg)
Operating Weight (SAE) .... 7825 lbs. (3549 kg)
Travel Speed - standard .... 6.9 mph (11,1 km/hr)
Travel Speed - Two-Speed option .... 6.9/12.0 mph (11,1/19,3 km/hr)
Lift Breakout Force (SAE) .... 5000 lbs. (2268 kg)
Tilt Breakout Force (SAE) .... 5000 lbs. (2268 kg)
Push Force .... 5500 lbs. (2495 kg)

Rigging Information

SLING ANGLE INFORMATION



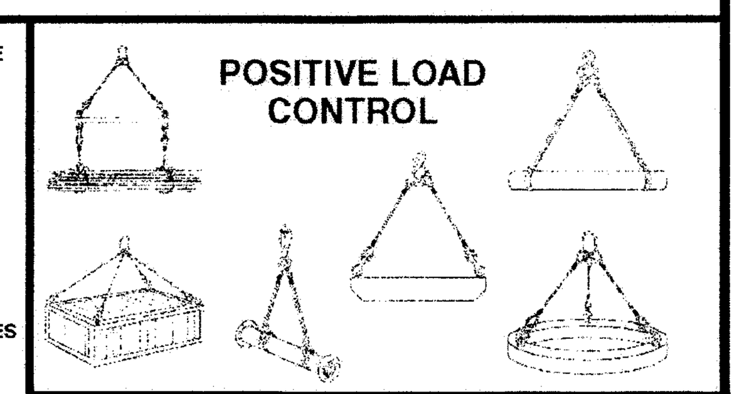
ASME B30.9 OPERATING PRACTICES AND LOAD CONTROL

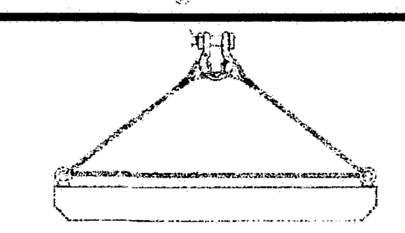
WHENEVER ANY SLING IS USED, THE FOLLOWING PRACTICES SHALL BE OBSERVED.

1. SLINGS THAT ARE DAMAGED OR DEFECTIVE SHALL NOT BE USED.
2. SLINGS SHALL NOT BE SHORTENED WITH KNOTS OR BOLTS OR OTHER MAKESHIFT DEVICES.
3. SLING LEGS SHALL NOT BE KINKED.
4. SLINGS SHALL NOT BE LOADED IN EXCESS OF THEIR RATED CAPACITIES.
5. SLINGS USED IN A BASKET HITCH SHALL HAVE THE LOADS BALANCED TO PREVENT SLIPPAGE.
6. SLINGS SHALL BE SECURELY ATTACHED TO THEIR LOAD.
7. SLINGS SHALL BE PADDED OR PROTECTED FROM THE SHARP EDGES OF THEIR LOADS.
8. SUSPENDED LOADS SHALL BE KEPT CLEAR OF ALL OBSTRUCTION.
9. ALL EMPLOYEES SHALL BE KEPT CLEAR OF LOADS ABOUT TO BE LIFTED AND OF SUSPENDED LOADS.
10. HANDS OR FINGERS SHALL NOT BE PLACED BETWEEN THE SLING AND ITS LOAD WHILE THE SLING IS BEING TIGHTENED AROUND THE LOAD.
11. SHOCK LOADING IS PROHIBITED!
12. A SLING SHALL NOT BE PULLED FROM UNDER A LOAD WHEN THE LOAD IS RESTING ON THE SLING.

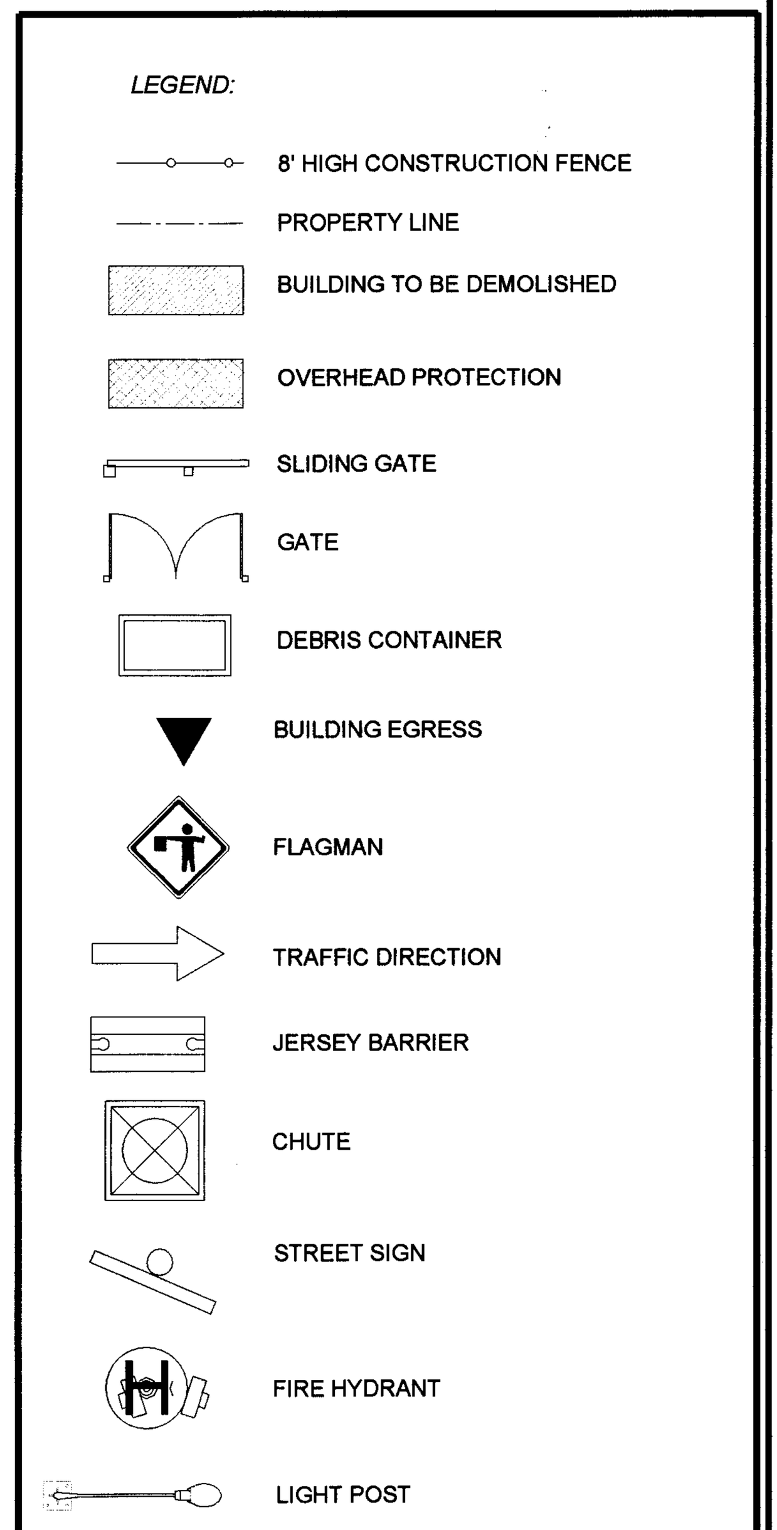
INSPECTION: EACH DAY BEFORE BEING USED, THE SLING AND ALL FASTENINGS AND ATTACHMENTS SHALL BE INSPECTED FOR DAMAGE OR DEFECTS BY A COMPETENT PERSON DESIGNATED BY THE EMPLOYER. ADDITIONAL INSPECTIONS SHALL BE PERFORMED DURING SLING USE WHERE SERVICE CONDITIONS WARRANT. DAMAGED OR DEFECTIVE SLINGS SHALL BE IMMEDIATELY REMOVED FROM SERVICE.

POSITIVE LOAD CONTROL





REEVING THROUGH CONNECTIONS TO LOAD INCREASES LOAD ON CONNECTION FITTINGS BY AS MUCH AS TWICE.
DO NOT REEVE!



No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
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NAWEED CHAUDHRI
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PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

EQUIPMENT SPECIFICATIONS

DEPT BLDGS Job No. 321836778
Scan Code ESHS4320651

SEAL & SIGNATURE

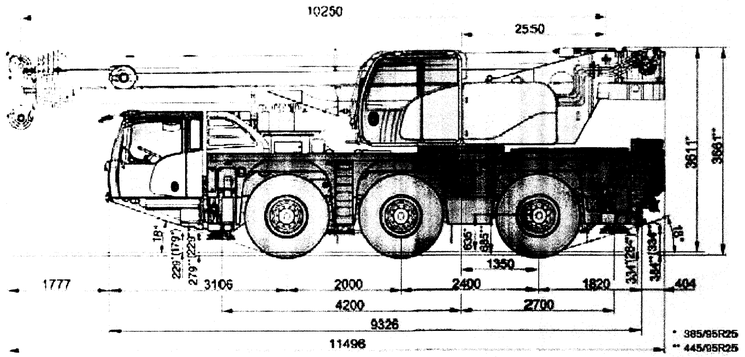
DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-300.00

SHEET 32 OF 34

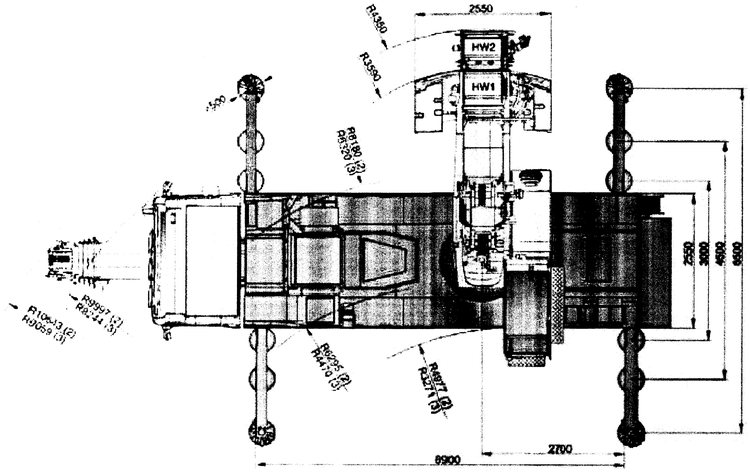
DIMENSIONS

CHALLENGER 3160

Abmessungen · Encombrement · Dimensioni · Dimensiones · Dimensões · Размеры



(...) Equipped with polyamide outrigger pads · mit PA Stützteller ausgestattet · **Equipé de semelles de calage en polyamide · Con piastre di appoggio degli stabilizzatori in poliammide · Equipada con apoyos estabilizadores de poliamida · Equipado com sapatas de poliamida nos estabilizadores · с подушками опор из полиамида**



(2) steering mode 2 · Lenkfunktion 2 · mode de direction 2 · modalità di sterzata 2 · **modo de conducción 2 · modo de manobra 2 · Режим поворота 2**

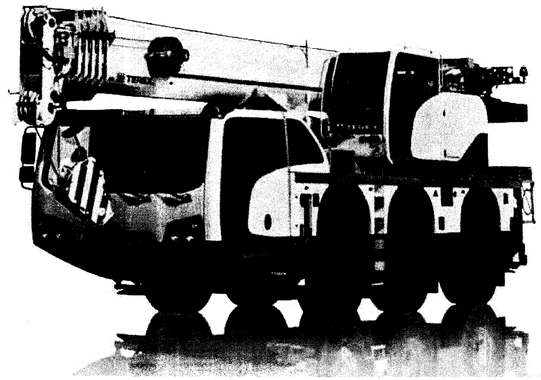
(3) steering mode 3* · Lenkfunktion 3* · mode de direction 3* · modalità di sterzata 3* · **modo de conducción 3* · modo de manobra 3* ·** Режим поворота 3*

see page 6 · siehe Seite 6 · voir page 6 · vedere a pagina 6 · Vease p. 6 · ver página 6 · см. на стр. 6

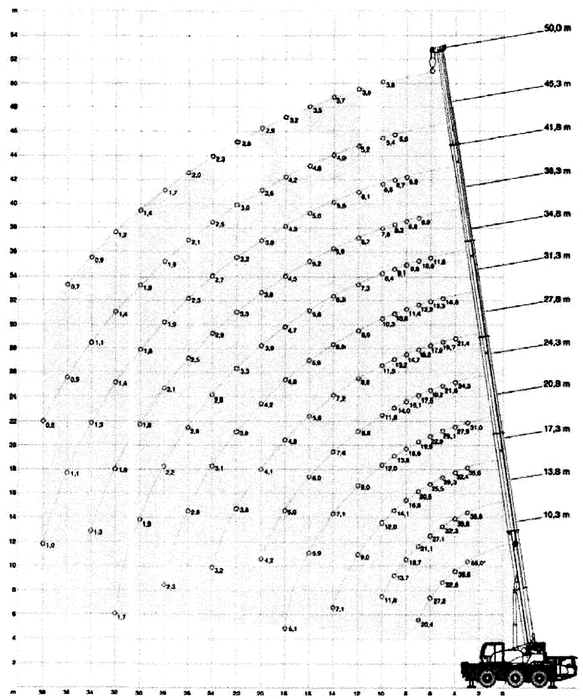
TEREX

CHALLENGER 3160
55t capacity class
All Terrain Crane
Datasheet
metric

CHALLENGER 3160



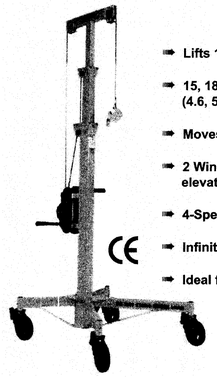
HA **CHALLENGER 3160**

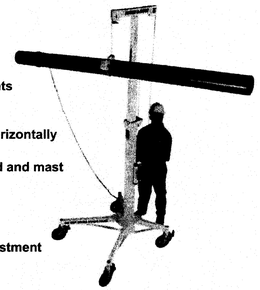


Roust-A-Bout

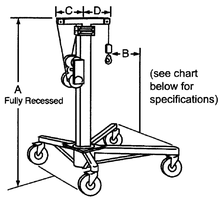
SUMNER
Sumner Manufacturing Co, Inc.

The Versatile Lift That Makes One Man A Crew!

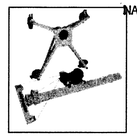




- **Lifts 1,500 lb (680 kg)**
- **15, 18 and 25 foot heights (4.6, 5.5 and 7.6 m)**
- **Moves vertically and horizontally**
- **2 Winches: operate load and mast elevation separately**
- **4-Speed Load winches**
- **Infinite load height adjustment**
- **Ideal for job or shop**
- **Enables one man to perform as a crew – pays for itself in days!**
- **Lift and place loads in tight locations impossible for other lifts**
- **8" casters (200 mm) permit full load to be positioned with ease**
- **Tee Head Extension available for wider loads up to 1,000 lbs (455 kg)**
- **Eliminates the need for come alongs, scaffolds, monorails and swing booms**



(see chart below for specifications)



Mast and base sections separate quickly for ease of transportation and storage.

Part No.	Description	Weight		A		B		C/D		Base		Max Height	
		lb	kg	inch	cm	Inch	cm	inch	cm	inch	cm		
780300	R-100 Roust-A-Bout 15' Top Height	330	150	79	200	20	50	12	30	32 x 40	80 x 100	15' 2-1/2"	4.6
780301	R-150 Roust-A-Bout 15' Top Height	336	152	79	200	20	50	12	30	40 x 40	100 x 100	15' 2-1/2"	4.6
780302	R-180 Roust-A-Bout 18' Top Height	403	183	126	320	25	63	14.5	36	50 x 50	125 x 125	17' 11-5/8"	5.5
780303	R-250 Roust-A-Bout 25' Top Height	493	224	119	302	30	75	17.5	44	60 x 60	150 x 150	25' 3/8"	7.6

DEPT BLDGS Job No.: 321836778
Scan Code: ESHS1963564

LEGEND:
- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
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DEMOLITION/CSC
APR 25 2019
NAWEED CHAUDHRI

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEM.
APR 25 2019
NAWEED CHAUDHRI

ENGINEER

HTO
ENGINEERING, DPC
44-02 11TH STREET, OFFICE 406
LONG ISLAND CITY, NY 11101
T: (347) 639-0669

PROJECT ADDRESS

266 BARBEY ST.
BROOKLYN, NY 11207,
BLOCK:3964, LOT:8

SHEET TITLE

EQUIPMENT SPECIFICATIONS

SEAL & SIGNATURE

STATE OF NEW YORK · LICENSED PROFESSIONAL ENGINEER · EDWARD E. NELSON

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-301.00

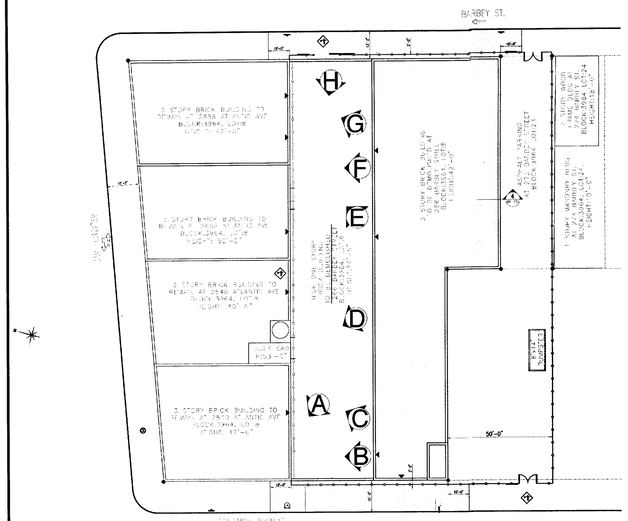
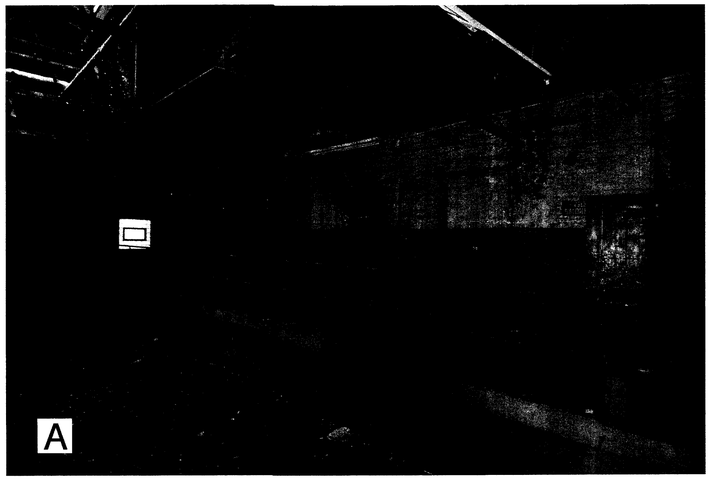
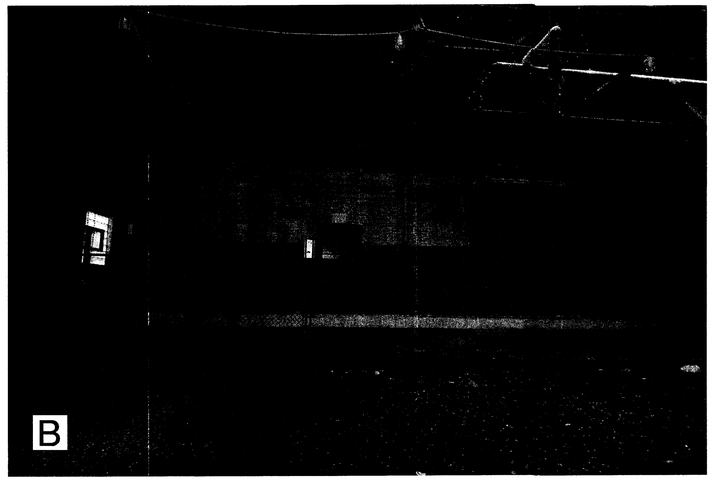
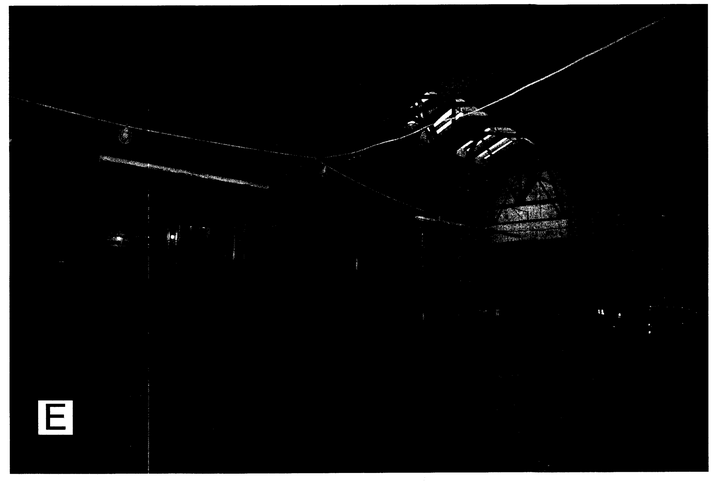
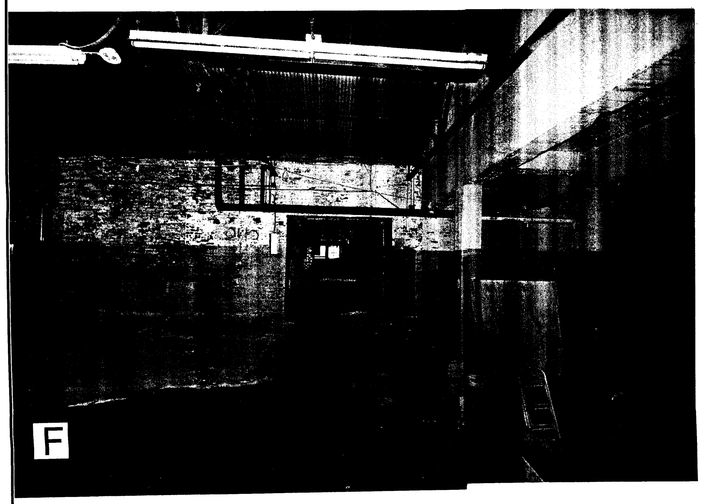


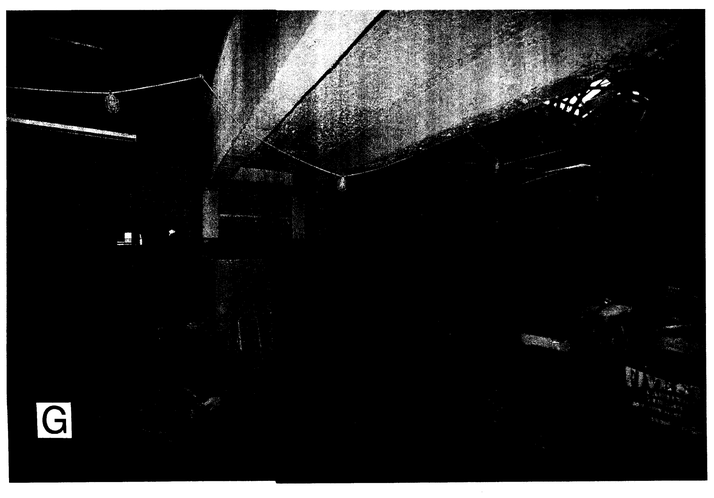
PHOTO KEY PLAN

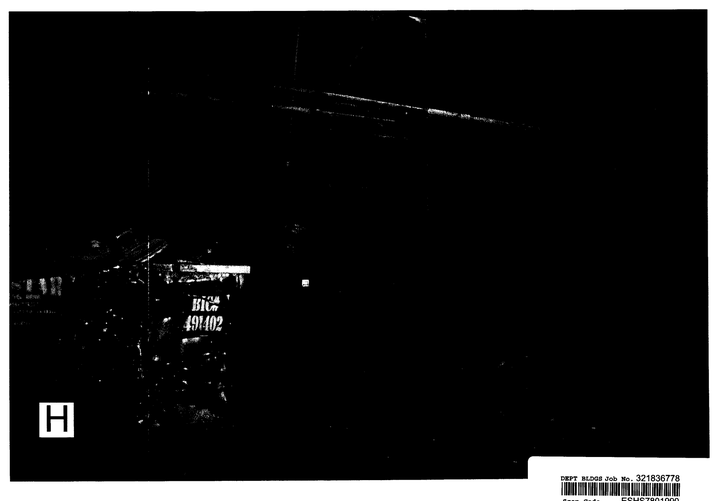












LEGEND:

- 8' HIGH CONSTRUCTION FENCE
- PROPERTY LINE
- BUILDING TO BE DEMOLISHED
- OVERHEAD PROTECTION
- SLIDING GATE
- GATE
- DEBRIS CONTAINER
- BUILDING EGRESS
- FLAGMAN
- TRAFFIC DIRECTION
- JERSEY BARRIER
- CHUTE
- STREET SIGN
- FIRE HYDRANT
- LIGHT POST

No.	REVISION COMMENT	DATE

CONTRACTOR

NYC DEPARTMENT OF BUILDINGS
APPROVED
DEMOLITION/CSC
APR 25 2019
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SHEET TITLE

PHOTO PAGE
ONE STORY SHED
INTERIOR

SEAL & SIGNATURE

STATE OF NEW YORK · SAMUEL GUZMAN · LICENSED PROFESSIONAL ENGINEER

DATE:	01-25-2019
JOB No.	18-1509
DRAWING BY:	SG
CHK BY:	
DWG No.	DM-400.00

SHEET 34 OF 34

DEPT BLDGS Job No.: 321836778
Scan Code: ESHS7801990

ATTACHMENT B
Community Air Monitoring Plan

COMMUNITY AIR MONITORING PLAN

2840 ATLANTIC AVENUE
BROOKLYN, NY

SEPTEMBER - 2019

Prepared on behalf of:

Empire Dairy LLC
3611 14th Avenue, Suite 400
Brooklyn, NY 11218

Prepared by:

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS
RIDGE, NY 11961

COMMUNITY AIR MONITORING PLAN
TABLE OF CONTENTS

APPENDICES

1.0 INTRODUCTION

This Community Air Monitoring Plan (CAMP) has been prepared as a contingency in the event that any soil disturbance work is required for the building demolition activities to be performed under an Interim Remedial Action Work Plan (IRMWP) at the Site. No soil disturbance activities are planned or anticipated under the IRMWP. The CAMP provides measures for protection for the downwind community (i.e., off-site receptors including residences, businesses, and on-site workers not directly involved in the remedial activities) from potential airborne contaminant releases resulting from remedial activities at the site.

Compliance with this CAMP is required during all activities associated with redevelopment that have the potential to generate airborne particulate matter and volatile organic compounds (VOCs). These activities include soil excavation and tank removal. This CAMP has been prepared to ensure that remedial activities do not adversely affect passersby, residents, or workers in the area immediately surrounding the Site and to preclude or minimize airborne migration of site-related contaminants to off-site areas.

1.1 Regulatory Requirements

This CAMP was established in accordance with the following requirements:

- New York State Department of Health's (NYSDOH) Generic Community Air Monitoring Plan as presented in DER-10 Technical Guidance for Site Investigation and Remediation (NYSDEC May 3, 2010). This guidance specifies that a community air-monitoring program shall be implemented to protect the surrounding community and to confirm that the work does not spread contamination off-site through the air;

- New York State Department of Environmental Conservation (NYSDEC) DER-10 Technical Guidance for Site Investigation and Remediation: This guidance provides a basis for developing and implementing a fugitive dust suppression and particulate monitoring program as an element of a hazardous waste site's health and safety program.

2.0 AIR MONITORING

Petroleum related VOCs / SVOCs, chlorinated VOCs and SVOCs and heavy metals are the constituents of concern at the Site. The appropriate method to monitor air for these constituents during remediation activities is through real-time VOC and air particulate (dust) monitoring.

The continuous monitoring locations for VOCs and particulates must reflect the nearest potentially exposed individuals and the location of ventilation system intakes for nearby structures.

2.1 Meteorological Data

At a minimum, wind direction will be evaluated at the start of each workday, noon of each workday, and the end of each workday. These readings will be utilized to position the monitoring equipment in appropriate upwind and downwind locations.

2.2 Community Air Monitoring Requirements

To establish ambient air background concentrations, air will be monitored at several locations around the site perimeter before activities begin. These points will be monitored continuously in series during the site work. The perimeter monitoring points will be located to represent the nearest potentially exposed individuals at the downwind location.

Fugitive respirable dust will be monitored using a MiniRam Model PDM-3 aerosol monitor (or equivalent). Air will be monitored for VOCs with a portable miniRAE 3000 photoionization detector (PID), or equivalent. All air monitoring data will be documented in a site log book by the designated site safety officer. The site safety officer or delegate must ensure that air monitoring instruments are calibrated and maintained in accordance with manufacturer's specifications. All instruments will be zeroed daily and checked for accuracy. A daily log will be kept. If additional monitoring is required, the protocols will be developed and appended to this plan.

3.0 VOC MONITORING, RESPONSE LEVELS, AND ACTIONS

Volatile organic compounds (VOCs) will be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis. Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work will be performed using equipment appropriate to measure the types of contaminants known or suspected to be present.

The equipment will be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment will be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

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

- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown. All 15-minute readings must be recorded and be available for State (DEC and DOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

- If total VOC concentrations opposite the walls of occupied structures or next to the intake vents exceed 1 ppm, monitoring should occur within the occupied structure(s) (if access is granted by owner or occupants). Background readings in the occupied spaces must be taken prior to the commencement of the planned work. Any unusual background readings should be discussed with NYSDOH prior to the commencement of the work.

All readings will be recorded and made available for NYSDEC and NYSDOH personnel to review. If an exceedance of the Action Limits occurs, an Action Limit Report, as shown in Appendix A, will be completed.

3.1 Potential Corrective Measures and VOC Suppression Techniques

If the 15-minute integrated VOC level at the downwind location persists at a concentration that exceeds the upwind level by more than 5 ppm but less than 25 ppm during remediation activities, then vapor suppression techniques will be employed. The following techniques, or others, may be employed to mitigate the generation and migration of fugitive organic vapors:

- limiting the excavation size;
- limiting the drop-height when loading soil into trucks;
- spraying chemical odorants onto the soil;
- covering soil stockpiles with 6-mil plastic sheeting or tarps;
- hauling waste materials in properly tarped containers; and/or
- applying vapor suppressant foam.

4.0 PARTICULATE MONITORING

Air monitoring for particulates (i.e., dust) will be performed continuously during excavation and loading activities using both air monitoring equipment and visual observation at upwind and downwind locations. Monitoring equipment capable of measuring particulate matter smaller than 10 microns (PM10) and capable of integrating (averaging) over periods of 15 minutes or less will be set up at upwind (i.e., background) and downwind locations, at heights approximately four to five feet above land surface (i.e., the breathing zone). Monitoring equipment will be MIE Data Ram monitors, or equivalent. The audible alarm on the particulate monitoring device will be set at 90 micrograms per cubic meter (µg/m3). This setting will allow proactive evaluation of worksite conditions prior to reaching the action level of 100 µg/m^3 above background. The monitors will be calibrated at least once per day prior to work activities and recalibrated as needed thereafter. In addition, fugitive dust migration will be visually assessed during all intrusive work activities.

The following summarizes particulate action levels and the appropriate responses:

- If the downwind PM-10 particulate level is 100 µg/m^3 greater than background (upwind perimeter) for the 15-minute period, or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 µg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 µg/m^3 above the upwind level, work must be stopped and an evaluation of activities initiated. Work can resume provided that dust suppression measures (as described in Section 2.3.1 below) and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 µg/m^3 of the upwind level and in preventing visible dust migration.

- If the total particulate concentrations opposite the walls of occupied structures or next to intake vents exceeds 150 µg/m^3, work activities should be suspended until controls are implemented and are successful in reducing the total particulate concentration to 150 µg/m^3 or less at the monitoring point.

All readings will be recorded and be available for NYSDEC and NYSDOH personnel to review. If an exceedance of the Action Limits occurs, an Action Limit Report as shown in **Appendix A** will be completed.

4.1 Potential Particulate Suppression Techniques

If the integrated particulate level at the downwind location exceeds the upwind level by more than 100 µg/m^3 at any time during remediation activities, then dust suppression techniques will be employed. The following techniques, or others, may be employed to mitigate the generation and migration of fugitive dusts:

- limiting the excavation size;

- spraying water onto the excavation faces and equipment;
- covering soil stockpiles with plastic sheeting or tarps;
- Use of gravel paths / roadways;
- hauling waste materials in properly tarped containers; and/or
- limiting vehicle speeds onsite.

Work may continue with dust suppression techniques provided that downwind PM_{10} levels are not more than 150 $\mu g/m^3$ greater than the upwind levels.

There may also be situations where the dust is generated by remediation activities and migrates to downwind locations, but is not detected by the monitoring equipment at or above the action level. Therefore, if dust is observed leaving the working area, dust suppression techniques such as those listed above will be employed.

If dust suppression techniques do not lower particulates to below 150 $\mu g/m^3$, or visible dust persists, work will be suspended until appropriate corrective measures are identified and implemented to remedy the situation.

All air monitoring readings will be recorded in the field logbook and will be available for the NYSDEC and NYSDOH personnel to review.

5.0 DATA QUALITY ASSURANCE

5.1 Calibration

Instrument calibration shall be documented on instrument calibration and maintenance sheets or in the designated field logbook. All instruments shall be calibrated as required by the manufacturer. Calibration checks may be used during the day to confirm instrument accuracy. Duplicate readings may be taken to confirm individual instrument response.

5.2 Operations

All instruments shall be operated in accordance with the manufacturer's specifications. Manufacturers' literature, including an operations manual for each piece of monitoring equipment will be maintained on-site by the SSO for reference.

5.3 Data Review

The SSO will interpret all monitoring data based the established criteria and his/her professional judgment. The SSO shall review the data with the PM to evaluate the potential for worker exposure, upgrades/downgrades in level of protection, comparison to direct reading instrumentation and changes in the integrated monitoring strategy.

Monitoring and sampling data, along with all sample documentation will be periodically reviewed by the PM.

6.0 RECORDS AND REPORTING

All air readings must be recorded on daily air monitoring log sheets and made available for review by personnel from NYSDEC and NYSDOH.

APPENDIX A
ACTION LIMIT REPORT

CAMP
ACTION LIMIT REPORT

Project Location: _____

Date: _____ Time: _____

Name: _____

Contaminant: _____ PM-10: _____ VOC: _____

Wind Speed: _____ Wind Direction: _____

Temperature: _____ Barometric Pressure: _____

DOWNWIND DATA

Monitor ID #: _____ Location: _____ Level Reported: _____

Monitor ID#: _____ Location: _____ Level Reported: _____

UPWIND DATA

Monitor ID #: _____ Location: _____ Level Reported: _____

Monitor ID#: _____ Location: _____ Level Reported: _____

BACKGROUND CORRECTED LEVELS

Monitor ID #: Location: _____ Level Reported: Level Reported: _____

ACTIONS TAKEN

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