GENERAL NOTES:

1. WORK MUST CONFORM TO THE REQUIREMENT OF THE 2022 NEW YORK CITY BUILDING CODE, FIRE DEPARTMENT REGULATIONS AND ALL APPLICABLE LAWS, UTILITY COMPANY REQUIREMENTS AND THE BEST TRADE PRACTICES AS WELL AS THE PROJECT SAFETY PLAN AND PROGRAM AND CONTRACT DOCUMENTS.
2. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL FILE THE REQUIRED CERTIFICATE OF INSURANCE WITH THE DEPARTMENT OF BUILDINGS, OBTAIN ALL REQUIRED PERMITS FROM ALL APPLICABLE NYC AGENCIES, AND APPLY ALL FEES REQUIRED BY GOVERNING NEW YORK CITY AGENCIES.
3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCING WORK, AND SHALL REPORT ANY DISCREPANCIES BETWEEN DRAWING AND FIELD CONDITION TO THE PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT AND SHALL BE NOTIFIED IN WRITING PRIOR TO COMMENCING WORK.
4. MINOR DETAILS OR DIMENSIONS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER REPAIRS OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE DRAWING AND THE CONSTRUCTION MANAGER AND APPLICABLE PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT SHALL BE NOTIFIED IN WRITING PRIOR TO COMMENCING WORK.
5. THE CONTRACTOR SHALL COORDINATE ALL WORK PROCEDURES WITH REQUIREMENTS OF LOCAL AUTHORITIES AND BUILDING MANAGEMENT.
6. THE CONTRACTOR SHALL TAKE, AND BE RESPONSIBLE FOR, ALL MEASUREMENTS REQUIRED FOR PROPER EXECUTION OF THE WORK. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS AT THE WORK SITE SO THAT ALL WORK WILL BE PROPERLY JOINED TO THE EXISTING WORK. BEFORE COMMENCING WORK, HE SHALL EXAMINE ALL EXISTING WORK ON WHICH HIS WORK IS IN ANY WAY DEPENDENT FOR PERFECT WORKMANSHIP ACCORDING TO THE INTENT OF THESE SPECIFICATIONS AND SHALL REPORT TO THE ENGINEER ANY CONDITIONS WHICH WILL PREVENT HIM FROM PERFORMING HIS WORK IN A FIRST CLASS MANNER.
7. AT LEAST 24 HOURS WRITTEN NOTICE SHALL BE GIVEN TO THE DEPARTMENT OF BUILDINGS BEFORE THE COMMENCEMENT OF ANY WORK FOR WHICH A WORK PERMIT HAS BEEN OBTAINED. ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST 24 HOURS BEFORE ANY WORK COMMENCES.
8. WHEN PERMISSION TO ENTER ADJOINING PROPERTY HAS BEEN OBTAINED, A PHYSICAL EXAMINATION OF SUCH PROPERTY SHALL BE CONDUCTED BY THE PERSON INITIATING THE CONSTRUCTION OPERATIONS PRIOR TO COMMENCEMENT OF OPERATIONS.
9. QUALIFIED ENGINEER SHALL BE ON SITE FOR CONTROLLED INSPECTION THROUGHOUT THE ENTIRE CONSTRUCTION OF UNDERPINNING/EXCAVATION AS PER NYC BUILDING CODE 1704.7.1 TO 1704.7.3.
10. A PERMIT FROM NEW YORK DEPARTMENT OF TRANSPORTATION (NYDOT) SHALL BE OBTAINED FOR SIDEWALK CLOSURE AND OVERCUT AND / OR SOLDIER PILES OR TIE BACKS PLACEMENT.
11. CONSENT FROM OWNERS OF ADJACENT PROPERTIES SHALL BE OBTAINED BY OWNER IF REQUIRED WORK EXTENDS BEYOND PROPERTY LINE.

MONITORING AND INSPECTION:

1. SURVEY MONITORING POINTS ON THE SPECIFIED LOCATIONS HAVE TO BE SET UP TO MONITOR ITS MOVEMENT IN BOTH DIRECTIONS, I.E. VERTICAL AND HORIZONTAL. IF ¼" MOVEMENT IS DETECTED IN EITHER DIRECTION, THE CONSTRUCTION MANAGER AND THE ENGINEER ON SITE SHALL BE INFORMED IMMEDIATELY FOR FURTHER INVESTIGATION AND PREVENTIVE WORK SHALL BE IMPLEMENTED. IF ½" MOVEMENT IS DETECTED IN EITHER DIRECTION, THE CONSTRUCTION ENGINEER AND ENGINEER ON SITE SHALL BE INFORMED AND ALL RELATED UNDERPINNING WORK SHALL BE STOPPED IMMEDIATELY. SUCH WORK CAN BE RESUMED ONCE REMEDIAL MEASURE IS IN PLACE.
2. UNTIL THE FOUNDATION WALL IS PERMANENTLY BRACED BY THE NEW INTERIOR STEEL FRAME (OR CONCRETE STRUCTURE) ONE READINGS MINIMUM HAVE TO BE TAKEN PER WEEK AND SUBMITTED TO LMW ENGINEERING GROUP FOR REVIEW.
3. DURING THE INSTALLATION OF THE BRACING SYSTEM, INSPECTOR FROM SIA SHALL BE ON SITE CONDUCTING AN INSPECTION TO ENSURE THAT ALL NECESSARY PRECAUTIONS ARE TAKEN AND ESTABLISHED CONSTRUCTION SEQUENCE IS FOLLOWED. IT SHOULD BE NOTED THAT SUCH INSPECTION DOES NOT RELIEF THE CONTRACTOR FROM ITS RESPONSIBILITIES OF PROTECTING THE INTEGRITY OF THE FOUNDATION, AND SAFETY OF THE PERSONNEL WORKING AROUND IT.

SOLDIER PILE NOTES:

1. SOLDIER BEAMS TO BE INSTALLED EITHER BY IMPACT DRIVING OR BY DRILLING METHOD.
2. ALL THE PILES SHALL BE INSTALLED AT LOCATIONS AS SHOWN ON CONTRACTORS DRAWINGS.
3. LAYOUT PILE LOCATION BY GENERAL CONTRACTOR (SURVEYED IN PLACE)
4. UTILITY IDENTIFICATION AND EXPLORATION AS NECESSARY BY GENERAL CONTRACTOR.
5. PLACE SOLDIER PILES ACCORDING TO SIZE, LENGTH AND UP TO TIP ELEVATION AS INDICATED ON DRAWINGS.

EXCAVATION NOTES:

1. ANY EXCAVATION DEEPER THAN 5' SHALL BE RETAINED BY A SOIL RETENTION SYSTEM AS PER BUILDING CODE 3304.4.1 THE INSTALLATION, MAINTENANCE AND REMOVAL (WHERE REQUIRED) SHALL BE THE COMPLETE AND SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE AND MINIMIZE SETTLEMENT OF EXISTING OR NEW CONSTRUCTION INSIDE AND OUTSIDE THE PROJECT LIMITS. ANY DAMAGE TO NEW OR EXISTING CONSTRUCTION INSIDE OR OUTSIDE OF THE PROJECT LIMITS, CAUSED BY CONSTRUCTION TECHNIQUES OR MOVEMENTS OF THE SOIL RETENTION SYSTEM IS THE RESPONSIBILITY OF THE CONTRACTOR. THE DESIGN OF THE SOIL RETENTION SYSTEM WILL BE PROVIDED BY THE OWNER. THE CONTRACTOR WILL ASSIST THE OWNER IN THE APPROVAL PROCESS FOR THE RETENTION SYSTEM IF SO REQUIRED. THE CONTRACTOR SHALL PROVIDE ALL CONTROLLED SPECIAL INSPECTIONS REQUIRED BY THE STATE AND NEW YORK CITY BUILDING CODE (1704.7.1 THROUGH 1704.7.3) RELATING TO THE RETENTION SYSTEM.
2. THE CONTRACTOR SHALL COORDINATE ALL ELEMENTS OF THE SOIL RETENTION SYSTEM WITH ALL ELEMENTS OF THE PERMANENT BUILDING.
3. PRIOR TO ANY EXCAVATION OR INSTALLATION OF ELEMENTS OF THE SOIL RETENTION SYSTEM, THE CONTRACTOR SHALL ESTABLISH SURVEY POINTS AROUND THE PERIMETER OF THE AREA TO BE EXCAVATED AND OTHER POINTS UP TO 200 FEET BEYOND THE PERIMETER. THESE POINTS SHALL BE SURVEYED FOR VERTICAL AND HORIZONTAL MOVEMENT AT FREQUENT INTERVALS DURING ACTUAL EXCAVATION AND CONTINUING DURING EACH SUBSEQUENT PHASE OF THE WORK AND SUBMITTED TO THE ARCHITECT FOR INFORMATION.
4. CONTRACTOR SHALL INSTALL PROTECTION FENCE AND GUARDRAILS AROUND THE PERIMETER OF EXCAVATION SITE FOLLOWING SAFETY ZONE PLANS IN ACCORDANCE TO NYCBC 3304.4, 3304.5.
5. ALL EXCAVATION SHALL BE BASED ON ENGINEERED DRAWINGS PREPARED BY THE CONTRACTOR INCLUDING PLANS AND SECTIONS OF EXCAVATION SEQUENCES. THE EXCAVATION SEQUENCES SHALL BE CONTROLLED TO MATCH THE REQUIREMENTS OF THE DESIGN OF THE SOIL RETENTION SYSTEM AND TO PERMIT MONITORING OF WALL AND GROUND MOVEMENTS.
6. ALL EXCAVATION BELOW THE SLAB LEVEL REQUIRED FOR PITS SHALL BE RETAINED BY LOCALIZED SOIL RETENTION SYSTEMS AS MAY BE NECESSARY BASED ON A DESIGN USING APPROPRIATED EARTH AND HYDRAULIC PRESSURES AND OTHER CONSTRUCTION LOADINGS.
7. THE CONTRACTOR SHALL PROVIDE SURFACE DRAINAGE CHANNELS AND SUMPS AND SUMP PUMPS TO PROTECT ALL EXCAVATIONS FROM FLOODING AS PER NYCBC 3304.2 AND 3304.8. FLOODING OF ANY EXCAVATION AFTER APPROVAL OF THE SUBGRADE WILL BE CAUSE FOR COMPLETE REPREPARATION AND APPROVAL OF THE SUBGRADE.
8. PROVIDE A DRAINAGE PANEL AGAINST THE OUTSIDE FACE OF THE FOUNDATION WALL AT LOCATIONS INDICATED ON THE ARCHITECTURAL DRAWINGS.
9. THE OWNER'S SOIL TESTING LABORATORY SHALL REVIEW AND MONITOR THE EXCAVATION, DEWATERING AND SOIL RETENTION SYSTEMS. THE CONTRACTOR SHALL PROVIDE, INSTALL AND SURVEY: (A) VERTICAL AND HORIZONTAL MOVEMENTS OF THE TOP OF THE SOIL RETENTION SYSTEM: AND (B) BENCH MARKS ADJACENT TO AND AWAY FROM THE SITE PERIMETER FOR VERTICAL AND HORIZONTAL MOVEMENTS.
10. CONTRACTOR SHALL PROVIDE A NOTIFICATION TO THE NEW YORK CITY DEPARTMENT OF BUILDING AND ADJACENT BUILDING OWNERS PRIOR TO COMMENCING WORK IN ACCORDANCE TO NYCBC 3304.3, 3304.3.2.
11. WHEN EXCAVATION IS WITHIN 200 FEET OF ANY SUBWAY, TUNNEL ETC, AN APPROVAL AND PERMIT SHALL BE OBTAINED FROM THE NEW YORK CITY ENVIRONMENTAL PROTECTION OR FROM THE NEW YORK CITY TRANSIT AUTHORITY AS PER NYCBC 3304.3.3.
12. SEE SURVEY, PLUMBING AND ELECTRICAL DRAWINGS FOR UNDERFLOOR UTILITY AND GROUNDING REQUIREMENTS.

SPECIAL INSPECTION AS PER BUILDING CODE

	SPECIAL INSPECTIONS	CODE/SECTION
	Structural Steel - Welding	BC 1704.3.1
	Structural Steel - Details	BC 1704.3.2
	Structural Steel - High Strength Bolting	BC 1704.3.3
	Structural Cold-Formed Steel	BC 1704.3.4
	Concrete-Cast-in-Place	BC 1704.4
	Concrete - Precast	BC 1704.4
	Concrete - Prestressed	BC 1704.4
	Concrete Sampling and Testing	BC 1913.10, BC 1905.6
	Concrete Design Mix	BC 1905.3, BC 1913.5
	Masonry	BC 1704.5
	Wood - Installation of High-Load Diaphragms	BC 1704.6.1
	Wood - Installation of Metal-Plate-Connected Trusses	BC 1704.6.2
	Wood - Installation of Prefabricated I-Joists	BC 1704.6.3
	Subgrade Inspection	BC 1704.7.1
	Subsurface Conditions - Fill placement & In-Place Density	BC 1704.7.2, BC 1704.7.3
	Deep Foundations Elements	BC 1704.7.8
	Vertical Masonry Foundations Elements	BC 1704.9
	Sprayed Fire-Resistant Materials	BC 1704.11
	Underpinning	BC 1704.20.3, BC 1814
	Structural Stability - Existing Buildings	BC 1704.20.1
X	Excavation - Sheeting, Shoring, and Bracing	BC 1704.20.2

SCOPE OF WORK:

PROPOSED SUPPORT OF EXCAVATION FOR THE NEW 3-STORY BUILDING.
EXPOSURE 1 : INSTALL SOLDIER PILES WITH LAGGINGS.
EXPOSURE 2 : INSTALL SOLDIER PILES WITH LAGGINGS.
EXPOSURE 3 : INSTALL TANGENT PILES AND SOLDIER PILES WITH LAGGINGS.
EXPOSURE 4 : INSTALL SOLDIER PILES WITH LAGGINGS.

LIST OF DRAWINGS:

SOE-100. GENERAL NOTES AND PLOT PLAN
SOE-101. EXCAVATION PLAN
SOE-102. SECTIONS
SOE-103. SECTIONS
SOE-104. SECTIONS
SOE-105. DETAILS
SOE-200. MONITORING PLAN

DRAINAGE NOTE:

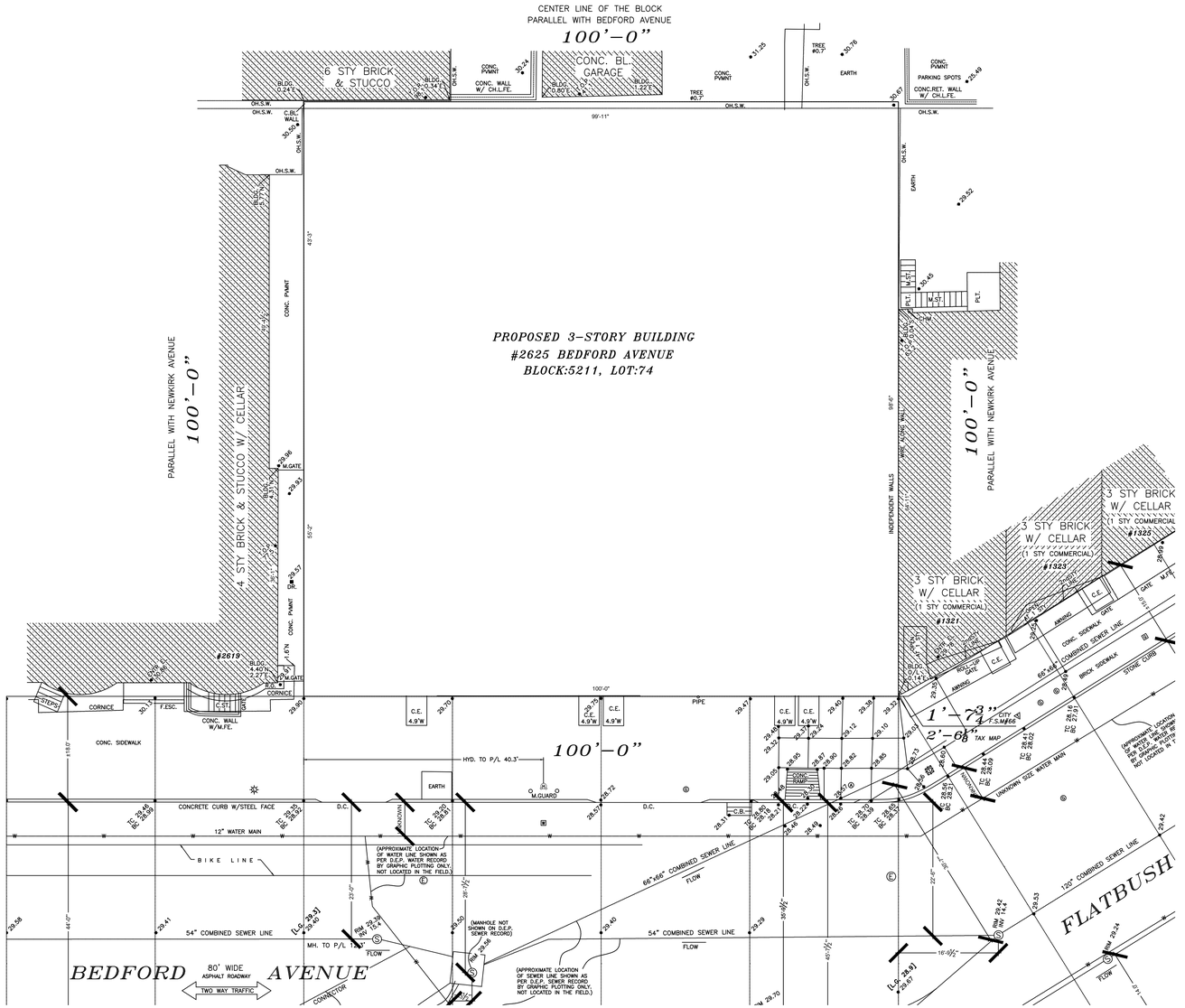
THE CONSTRUCTION OPERATIONS HAVE ACCOUNTED FOR THE PREVENTION OF ACCUMULATION OF WATER, WHICH COULD CAUSE DAMAGE TO NEARBY BUILDING FOUNDATIONS ON THE SUBJECT PROPERTY OR ON ADJACENT PROPERTIES.

NOTE:

ALL CONSTRUCTION WORK TO COMPLY WITH THE 2022 BUILDING CODE PROVISIONS OF BC CHAPTER 16, BC CHAPTER 18, AND BC CHAPTER 33.

NOTE:

THE ELEVATIONS SHOWN ON THE PLAN ARE NAVD 88 DATUM.



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

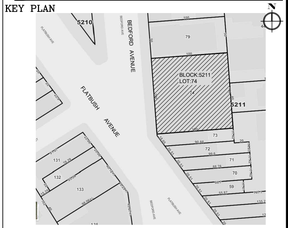
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KEY PLAN



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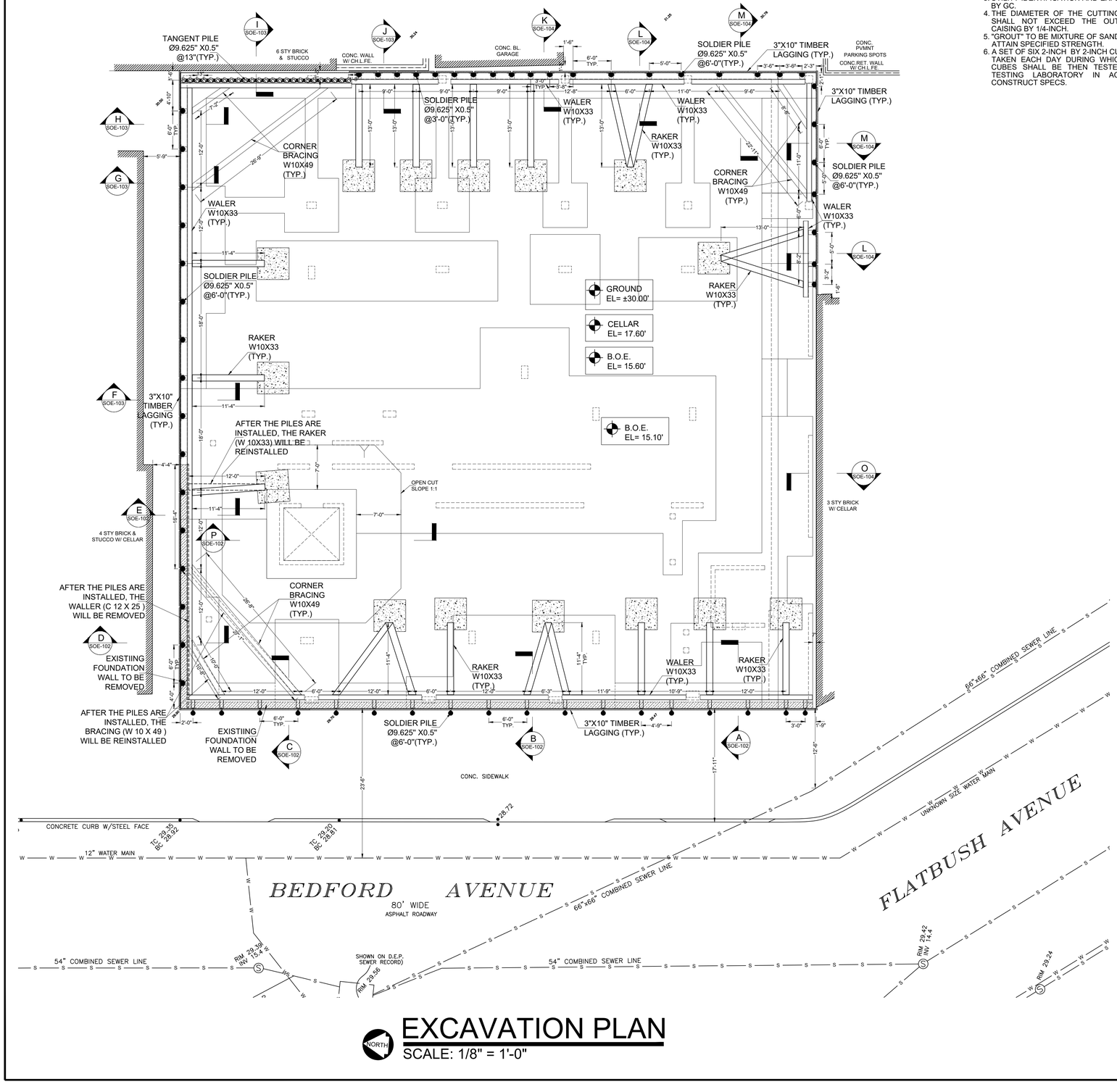
PROJECT:
SUPPORT OF EXCAVATION OF PROPOSED 3 STORY BUILDING AT 2625 BEDFORD AVENUE, BROOKLYN, NY 11226;
BLOCK: 5211 LOT: 74

DRAWING TITLE:
GENERAL NOTES AND PLOT PLAN

DOB NOW Job #: B01330433 - S4

SEAL & SIGNATURE
STATE OF NEW YORK · JIEMING WANG · 074354 · LICENSED PROFESSIONAL ENGINEER

DATE:	12-26-2025
PROJECT NO.:	25-6190
DRAWING BY.:	G.X.
CHK. BY:	J.W.
DWG. NO.:	SOE-100.00
CADO FILE NO.:	1 OF 7



EXCAVATION PLAN

NORTH

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

SOLDIER PILE INSTALLATION NOTES:

1. ALL PILES SHALL BE INSTALLED AT LOCATIONS AS SHOWN ON CONTRACT DRAWINGS.
2. LAYOUT OF PILE LOCATION BY GC. (SURVEYED IN PLACE).
3. UTILITY IDENTIFICATION AND EXPLORATION AS NECESSARY BY GC.
4. THE DIAMETER OF THE CUTTING SHOE OF THE CAISING SHALL NOT EXCEED THE OUTER DIAMETER OF THE CAISING BY 1/4-INCH.
5. "GROUT" TO BE MIXTURE OF SAND AND CEMENT-GROUT TO ATTAIN SPECIFIED STRENGTH.
6. A SET OF SIX 2-INCH BY 2-INCH CUBES OF GROUT SHALL BE TAKEN EACH DAY DURING WHICH PILES ARE GROUTED. CUBES SHALL BE THEN TESTED BY AN INDEPENDENT TESTING LABORATORY IN ACCORDANCE WITH THE CONSTRUCT SPECS.

SOLDIER PILE INSTALLATION PROCEDURE:

1. MOBILIZATION TO SITE.
2. SET UP RIG ON PROPER LOCATION AND PLUMB THE MAST.
3. INSTALL FIRST PIECE OF CASING WITH ATTACHED CARBIDE CUTTING TEETH.
4. DRILL CASING DOWN WITH POLYMER DRILLING MUD, MAINTAINING POSITIVE FLUID HEAD AT ALL TIMES. DRILLING TO BE PERFORMED USING INTERNAL FLUSH METHOD. OUTSIDE CASING SHALL REMAIN AHEAD OF THE INTERNAL FLUSHING BY A MINIMUM OF 5'-0" IF OBSTRUCTIONS ARE ENCOUNTERED OR IF OUTSIDE CASING GETS STUCK, ADVANCE INNER CASING THROUGH OBSTRUCTION OR UNTIL OUTER CASING CAN REVOLVE, AND THE RESUME STANDARD PROCEDURE OF 2'-0" LEAD OF OUTSIDE CASING.
5. FOLLOW UP WITH ADDITIONAL CASING UNTIL THE BOTTOM OF SOCKET ELEVATION, AS INDICATED ON THE DRAWINGS, IS REACHED.
6. FLUSH INSIDE OF CASING CLEAN OF SPOILS, CONTINUE TO CIRCULATE THE DRILLING FLUID DOWN THROUGH THE INNER CASING AND UP THROUGH THE ANNULUS UNTIL THE FLUID IS CLEAN OF DRILL SPOILS.
7. PLACE ¾"(MIN.) DIAMETER PVC GROUT TUBE TO WITHIN 2 FEET OF THE BOTTOM OF THE CASING AND GROUT THE PILE FROM THE BOTTOM UNTIL GOOD GROUT FLOWS OUT THE TOP OF THE PILE.
8. EXTRACT THE CASING TIP TO THE TOP OF SOCKET ELEVATION, MAINTAINING THE LEVEL OF GROUT IN THE PILE AT OR ABOVE DRILLING ELEVATION AT ALL TIMES.
9. SPIN THE CASING BACK DOWN 5 FEET THROUGH THE GROUTED PILE, AND INCREASE THE FINAL GROUT PRESSURE TO 75 PSI.
10. HEX NUTS AND PLATE SHALL BE INSTALLED FOR EMBEDMENT DETAILS WHEN THE CAP IS BEING CONSTRUCTED.

SHORING SYSTEM INSTALLATION AND EXCAVATION PROCEDURE:

1. INSTALL THE Ø 9.625" STEEL PILES WITH NON-IMPACT METHOD FOLLOWING THE PILE LOCATION ON SOE-101, TO THE INDICATED ELEVATION ACCORDING TO SECTIONS SHOWN ON SOE-102, SOE-103 AND SOE-104.
2. EXCAVATE UP TO RAKER / WALER JOINT ELEVATION AND INSTALL THE LAGGING AS EXCAVATION PROGRESSES. STEEL ANGLE AND TIMBER LAGGING INSTALLATION SHALL BE IN PROGRESS WITH EXCAVATION ADVANCE. STEEL ANGLE AND LAGGING LIFTS NO MORE THAN 2' FEET AT THE TIME. LAGGING BOARDS SHALL BE INSTALLED WITH 2" GAPS IN BETWEEN, BACKPACK TIMBER LAGGING TO REPLACE ANY LOST SOILS WITH SAND-CEMENT. CONTINUE WITH SECOND SECTOR OF EXCAVATION TO REACH THE LEVEL FOR INSTALLATION OF THE WALER FOLLOWING THE SAME PROCEDURE DESCRIBED ABOVE.
3. LEAVING A 3' FEET BERM ON WALER LOCATION EXCAVATE A SLOPE 1:1.5 DOWN TO SUBGRADE TO ALLOW FOR THE HEEL BLOCK INSTALLATION.
4. CONSTRUCT THE HEEL BLOCK (DEADMAN) AT LOCATION, SIZES AND ANGLES SHOWN ON THE DRAWINGS AND CHART.
5. INSTALL WALER AT LOCATION SHOWN ON SECTIONS.
6. SET UP THE WALER AND RAKER ATTACHMENT TO THE WALER-SOLDIER PILE AND HEEL BLOCK (DEADMAN) RESPECTIVELY, INSTALL WALER AT LOCATION SHOWN ON SECTIONS AND THEN RAKERS BETWEEN HEEL BLOCKS. THIS IS TO BE DONE BY LOCAL EXCAVATION.
7. ONCE THE SHORING SYSTEM IS IN PLACE, INSPECT BY A LICENSED P.E.
8. ON THE INSIDE, REMOVE THE REMAINING SOIL AGAINST THE SHORING SYSTEM AND COMPLETE THE EXCAVATION UP TO SUBGRADE . INSTALL THE LAGGING AS EXCAVATION PROGRESSES. STEEL ANGLE AND TIMBER LAGGING INSTALLATION SHALL BE IN PROGRESS WITH EXCAVATION ADVANCE. STEEL ANGLE AND LAGGING LIFTS NO MORE THAN 2' FEET AT THE TIME. LAGGING BOARDS SHALL BE INSTALLED WITH 2" GAPS IN BETWEEN, BACKPACK TIMBER LAGGING TO REPLACE ANY LOST SOILS WITH SAND-CEMENT.
9. INSTALL FOOTING, GRADE BEAMS AND POUR NEW FOUNDATION WALLS BOXING OUT AS REQUIRED FOR IN PLACE BRACING.
10. ERECT CELLAR AND FIRST FLOOR STEEL FRAMING AND CONCRETE FLOOR.
11. NOW SHORING SYSTEM CAN BE REMOVED AND FILL BOXOUTS.
12. CONSTRUCT NEW SIDEWALK UNDER SEPARATE APPLICATION.

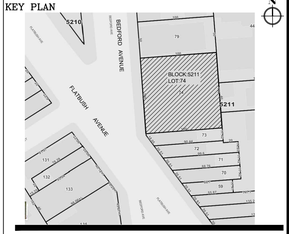
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APPROVED
Date: 03/23/2026

KEY PLAN



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SCALE AS SHOWN

PROJECT:

SUPPORT OF EXCAVATION OF PROPOSED 3 STORY BUILDING AT 2625 BEDFORD AVENUE, BROOKLYN, NY 11226; BLOCK: 5211 LOT: 74

DRAWING TITLE:

EXCAVATION PLAN

DOB NOW Job #: B01330433 - S4

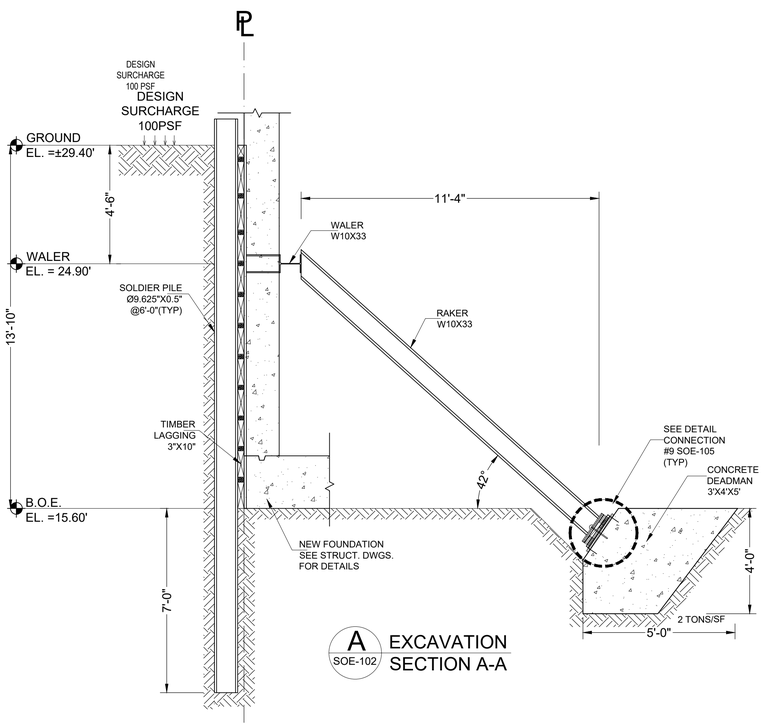
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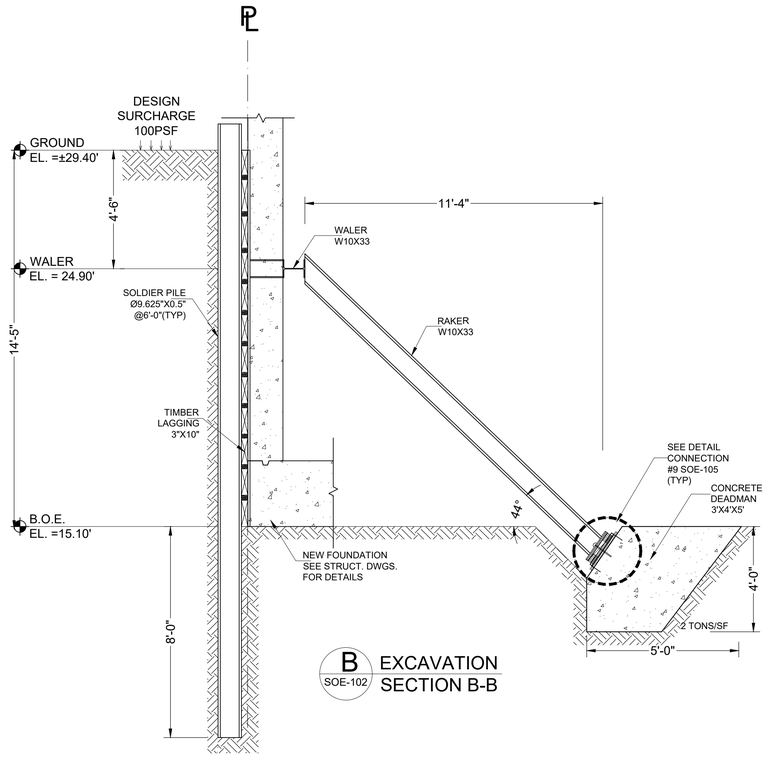
DATE:	12-26-2025
PROJECT NO.:	25-6190
DRAWING BY.:	G.X.
CHK. BY:	J.W.
DWG. NO.:	

SOE-101.00

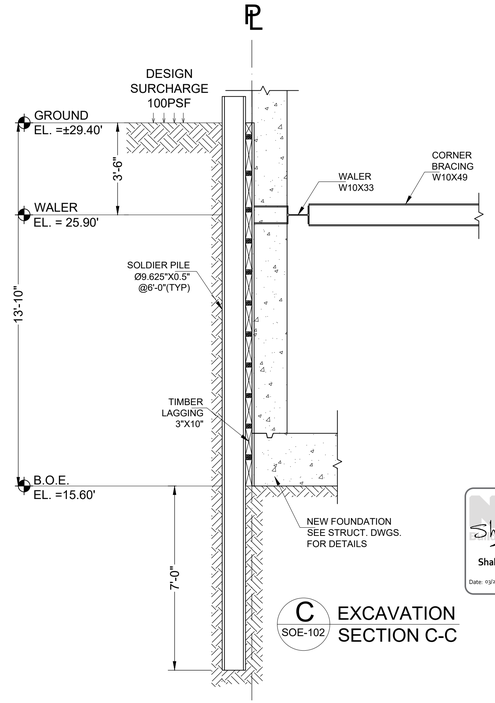
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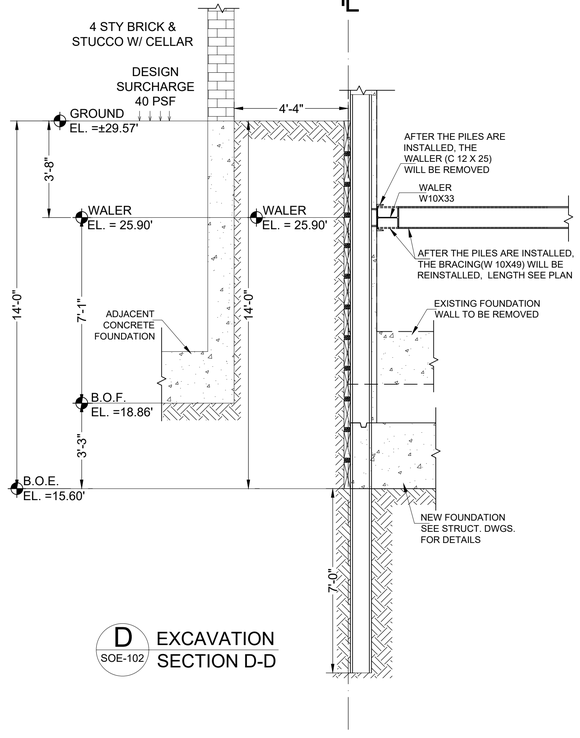
A EXCAVATION SECTION A-A
SOE-102



B EXCAVATION SECTION B-B
SOE-102



C EXCAVATION SECTION C-C
SOE-102



D EXCAVATION SECTION D-D
SOE-102

CONSTRUCTION SEQUENCE:
(SECTION-D AND SECTION-E)

1.EXCAVATE THE SITE UP TO THE WALER ELEVATION AND MAINTAIN A MINIMUM 1:1 SOIL SLOPE RATIO.

2.INSTALL THE WALERS ON THE EXISTING WALL AT THE ELEVATIONS SHOWN IN THE DETAILS ON DWG SOE-102 SECTION-D AND SECTION-E.

3.CONSTRUCT THE DEADMAN (WHERE REQUIRED) BELOW THE FOOTING TIP ELEVATION, AT THE SPECIFIED LOCATIONS AND USING THE SPECIFIED DIMENSIONS.

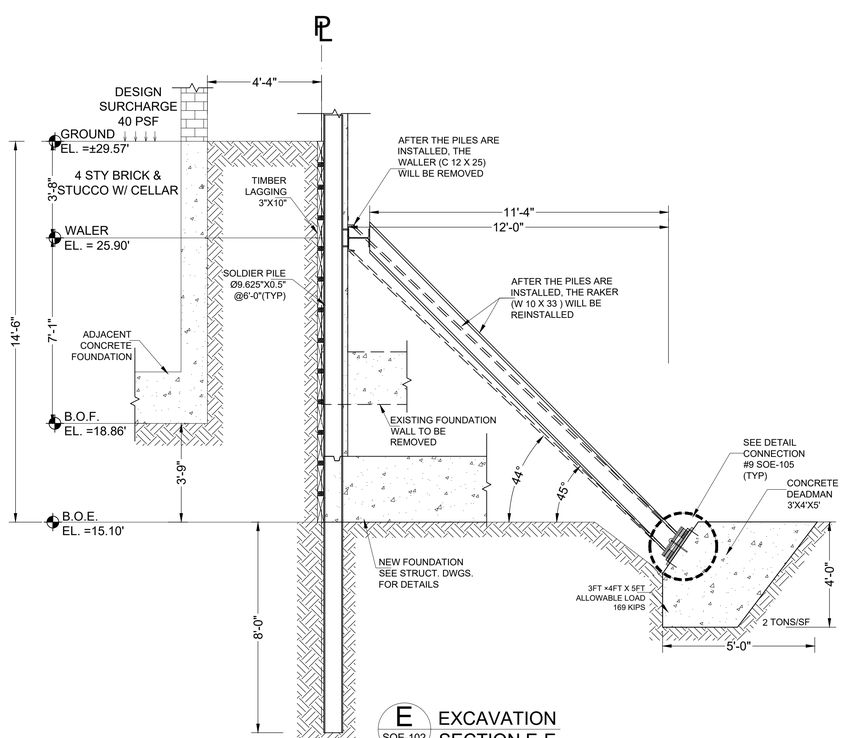
4.INSTALL THE RAKERS OR BRACING AT THE SPECIFIED LOCATIONS WHILE MAINTAINING A 1:1 SOIL SLOPE THROUGHOUT THE AREA.

5.CORE-DRILL 12" × 12" OPENINGS IN THE EXISTING WALL AND INSTALL PILES THROUGH THEM AT THE LOCATIONS INDICATED ON THE PLAN.

6.REMOVE THE EXISTING WALER (C12×25) AFTER THE PILES IN THE EXISTING WALL ARE FULLY SET, THEN INSTALL THE NEW WALER (W10×33).

7.REINSTALL THE RAKERS (W10×33) OR BRACING (W10 × 49) AT THE SPECIFIED LOCATIONS WHILE MAINTAINING A 1:1 SOIL SLOPE THROUGHOUT THE AREA.

8.ALL EXISTING WALLS SHALL BE REMOVED FOLLOWING THE INSTALLATION OF THE NEW SHORING SYSTEM.CONTINUE THE EXCAVATION AND INSTALL THE TIMBER LAGGING AS EXCAVATION PROGRESSES. THE TIMBER LAGGING LIFTS NO MORE THAN 2FT AT A TIME.



E EXCAVATION SECTION E-E
SOE-102

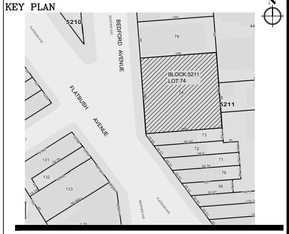
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SCALE AS SHOWN

PROJECT:
SUPPORT OF EXCAVATION OF PROPOSED 3 STORY BUILDING AT 2625 BEDFORD AVENUE, BROOKLYN, NY 11226;
BLOCK: 5211 LOT: 74

DRAWING TITLE:

SECTIONS

DOB NOW Job #: B01330433 - S4

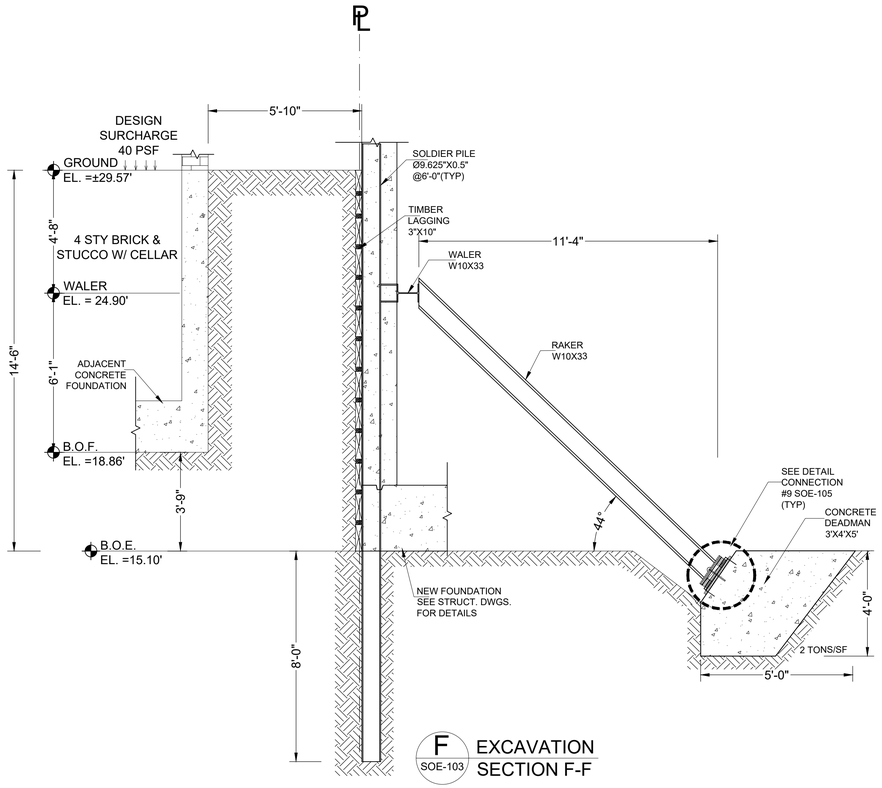
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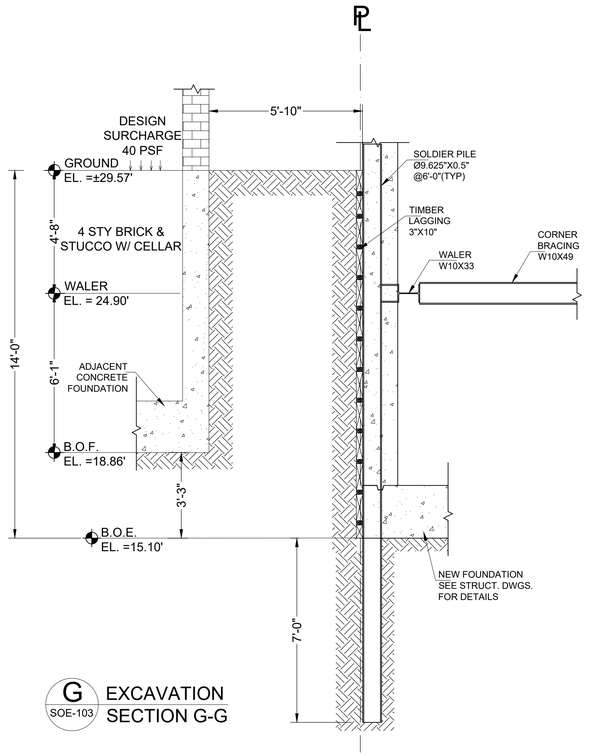
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DWG. NO.:	

SOE-102.00

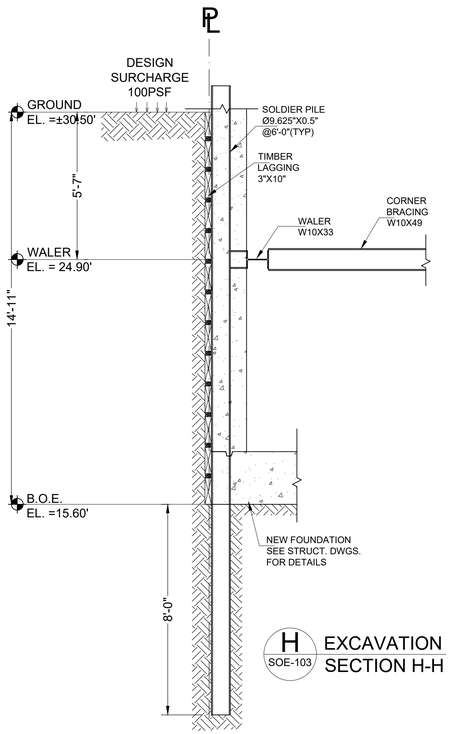
CADO FILE NO.: 3 OF 7



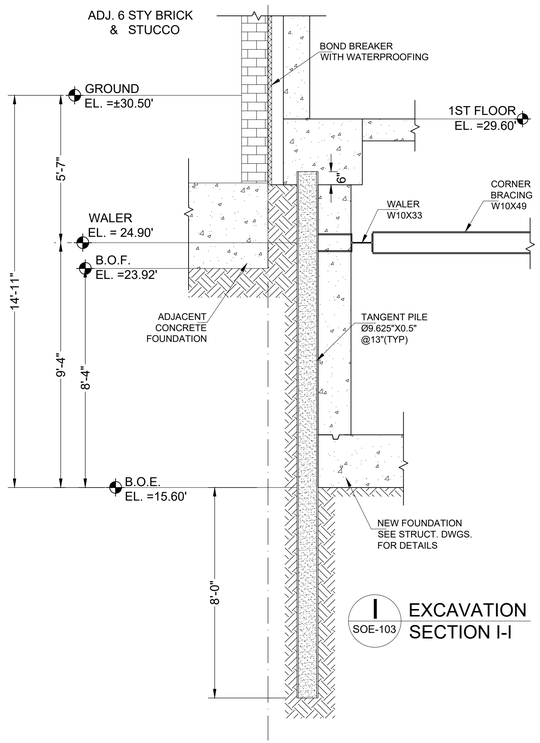
F SOE-103 EXCAVATION SECTION F-F



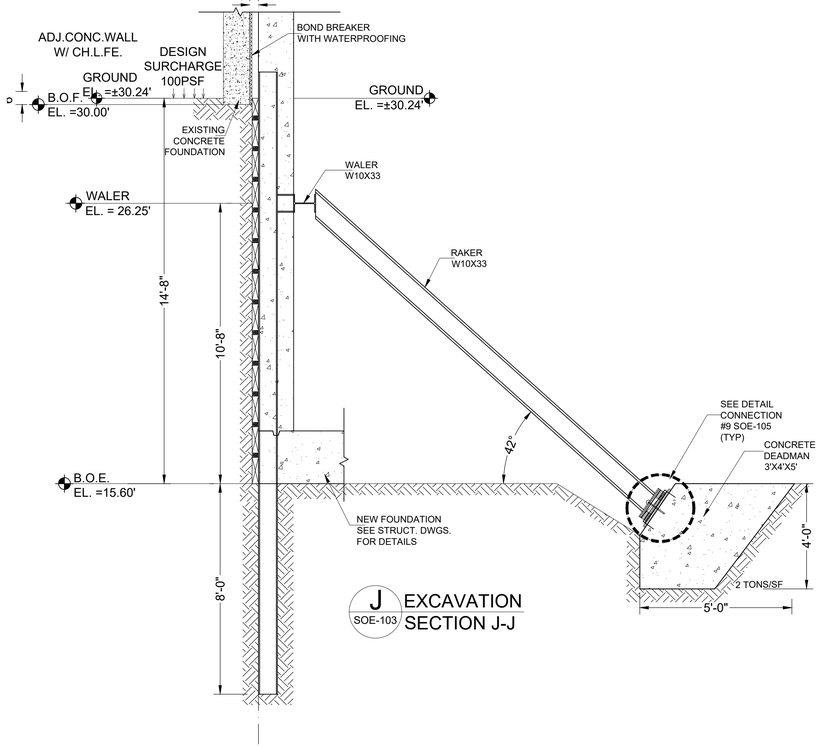
G SOE-103 EXCAVATION SECTION G-G



H SOE-103 EXCAVATION SECTION H-H



I SOE-103 EXCAVATION SECTION I-I



J SOE-103 EXCAVATION SECTION J-J

LMW Engineering Group, LLC.
Jieming Wang, P.E, 074354

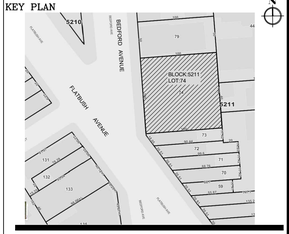
125 Lexington Avenue.
Linden, NJ, 07036
Tel: (908) 862-7600
Fax: (908) 862-8998

ARCHITECT:

CONTRACTOR:

Shahinaz Moubarek
APPROVED
Date: 03/21/2026

KEY PLAN



THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE THE PROPERTY OF LMW, INFRINGEMENT WILL RESULT IN PROSECUTION.

No.	Revision Comment	Date

SCALE AS SHOWN

PROJECT:
SUPPORT OF EXCAVATION OF PROPOSED 3 STORY BUILDING AT 2625 BEDFORD AVENUE, BROOKLYN, NY 11226;
BLOCK: 5211 LOT: 74

DRAWING TITLE:

SECTIONS

DOB NOW Job #: B01330433 - S4

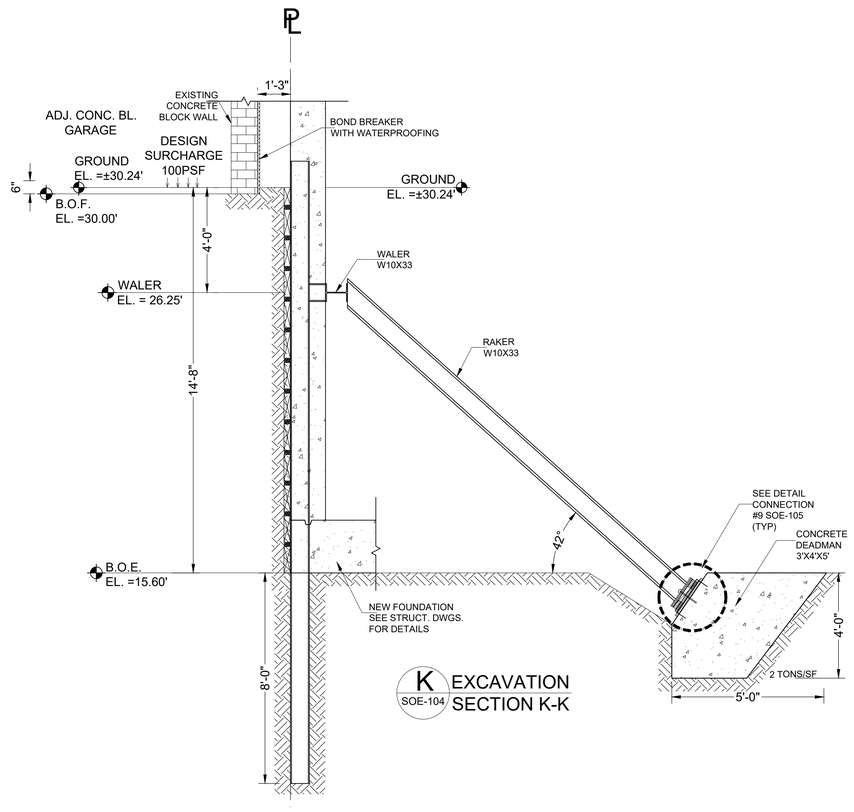
SEAL & SIGNATURE

STATE OF NEW YORK · JIEMING WANG · 074354 · LICENSED PROFESSIONAL ENGINEER

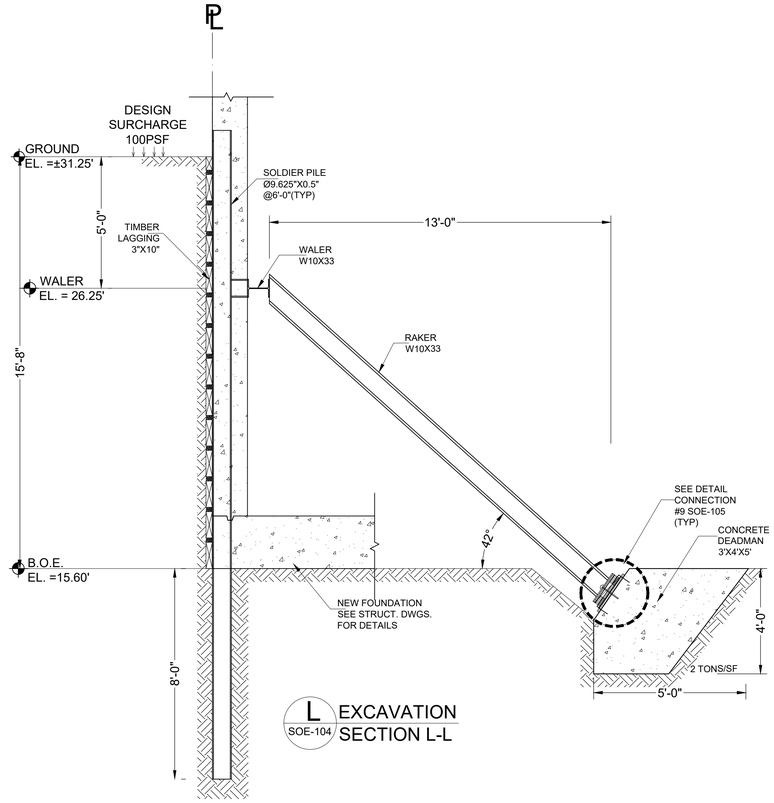
DATE:	12-26-2025
PROJECT NO.:	25-6190
DRAWING BY.:	G.X.
CHK. BY:	J.W.
DWG. NO.:	

SOE-103.00

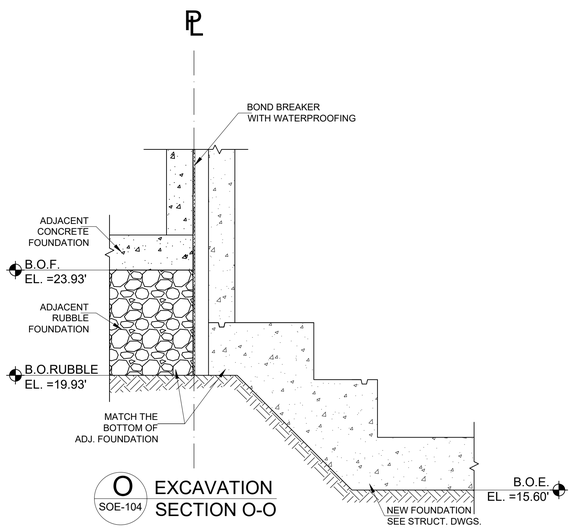
CADO FILE NO.: 4 OF 7



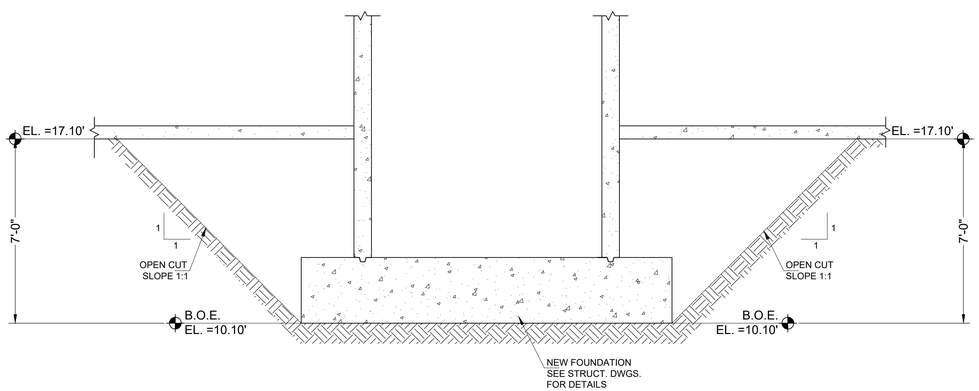
K EXCAVATION SECTION K-K
SOE-104



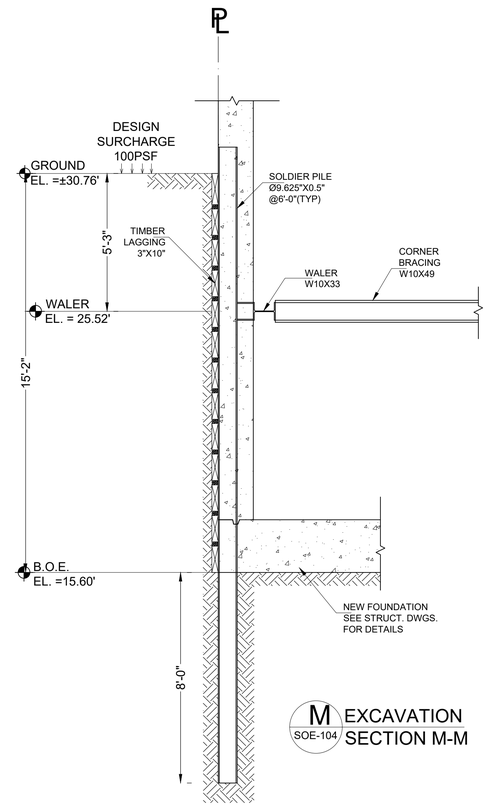
L EXCAVATION SECTION L-L
SOE-104



O EXCAVATION SECTION O-O
SOE-104



P EXCAVATION SECTION P-P
SOE-104



M EXCAVATION SECTION M-M
SOE-104

LMW Engineering Group, LLC.
Jieming Wang, P.E, 074354

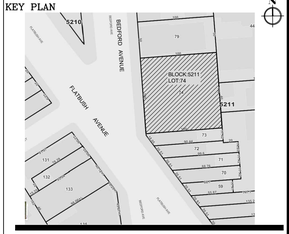
125 Lexington Avenue.
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ARCHITECT:

CONTRACTOR:

Shahinaz Moubarek
APPROVED
Date: 03/23/2026

KEY PLAN



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No.	Revision Comment	Date

SCALE AS SHOWN

PROJECT:
SUPPORT OF EXCAVATION OF PROPOSED 3 STORY BUILDING AT 2625 BEDFORD AVENUE, BROOKLYN, NY 11226;
BLOCK: 5211 LOT: 74

DRAWING TITLE:

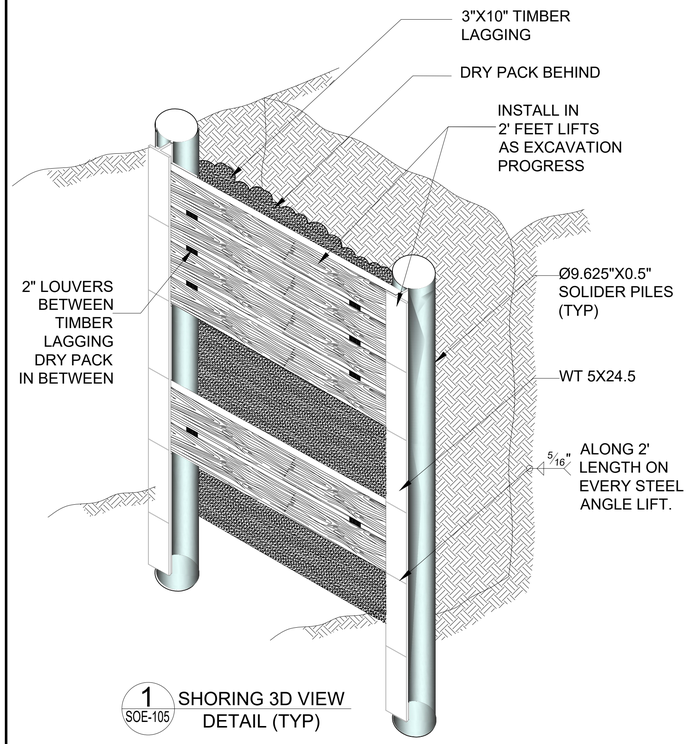
SECTIONS

DOB NOW Job #: B01330433 - S4

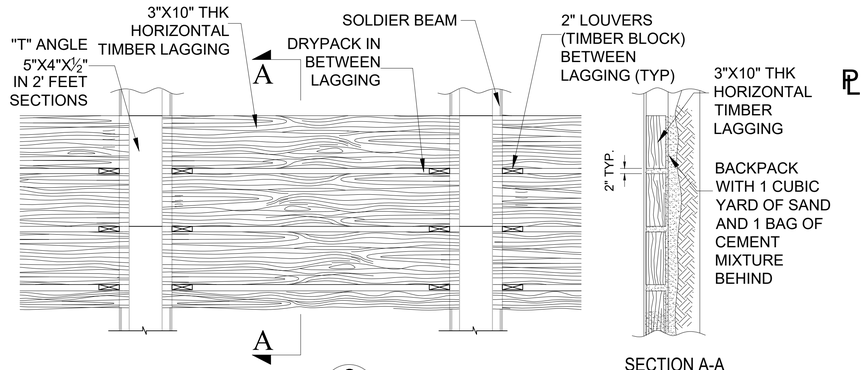
SEAL & SIGNATURE

STATE OF NEW YORK · JIEMING WANG · 074354 · LICENSED PROFESSIONAL ENGINEER

DATE:	12-26-2025
PROJECT NO.:	25-6190
DRAWING BY.:	G.X.
CHK. BY:	J.W.
DWG. NO.:	SOE-104.00
CADO FILE NO.:	5 OF 7

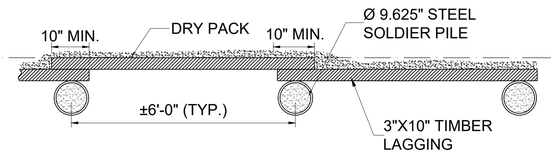


1 SOE-105 SHORING 3D VIEW DETAIL (TYP)

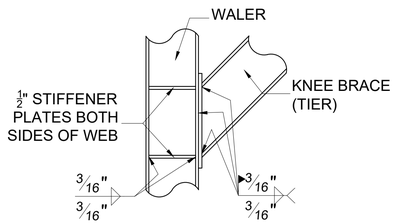


3 SOE-105 SHORING LAGGING DETAIL SECTION (TYP)

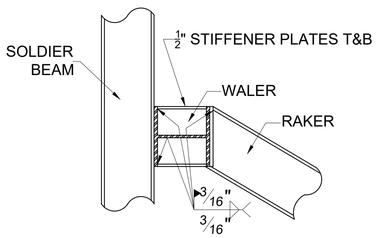
SECTION A-A



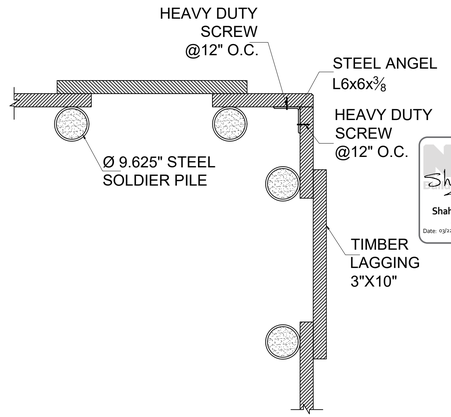
4 SOE-105 ALTERNATIVE SOLDIER PILE LAGGING DETAIL



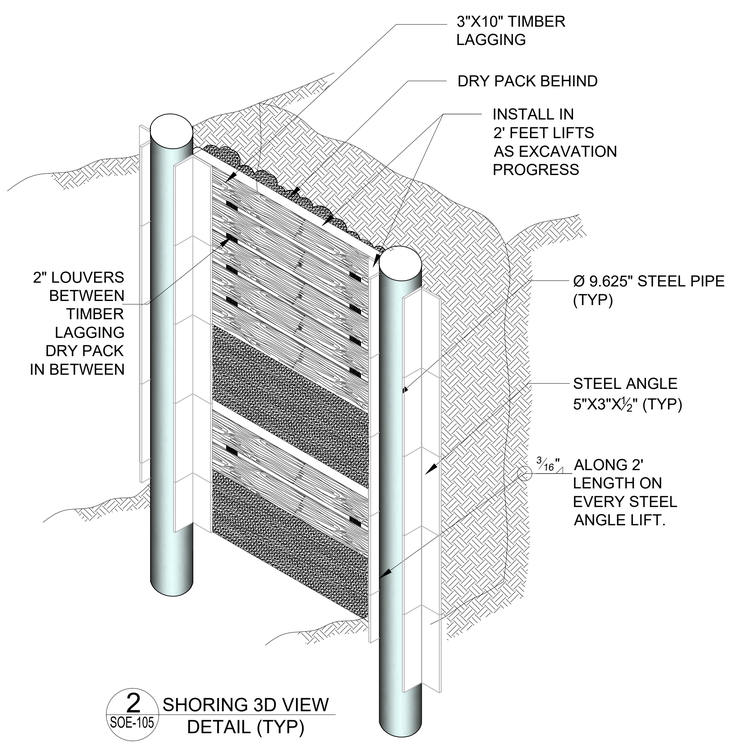
6 SOE-105 TYP. KNEE BRACE TO WALER CONNECTION DETAIL



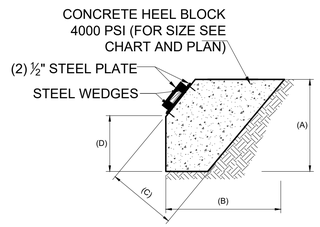
7 SOE-105 TYP. RAKER TO WALER CONNECTION DETAIL



5 SOE-105 LAGGING CONNECTION DETAIL



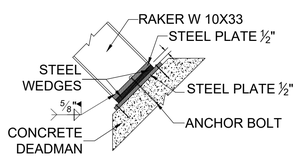
2 SOE-105 SHORING 3D VIEW DETAIL (TYP)



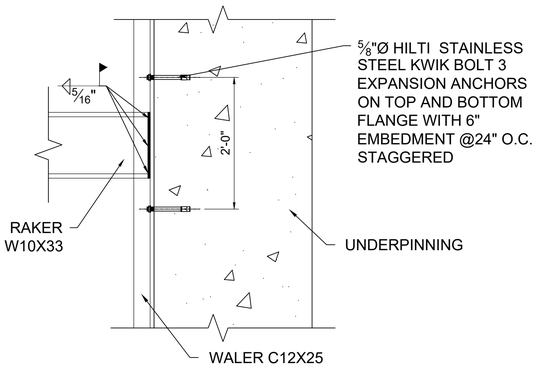
CONCRETE HEEL BLOCK CHART

TYPE	LENGHT	A	B	C	D
1	5'-0"	4'-0"	5'-0"	3'-0"	2'-5"

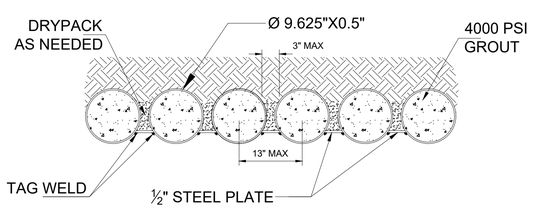
8 SOE-105 DEADMAN DETAIL



9 SOE-105 STEEL WEDGE DETAIL ELEVATION



10 SOE-105 TYP. WALER CONNECTION AT UNDERPINNING (PLAN VIEW)



11 SOE-105 TANGENT PILE DETAIL

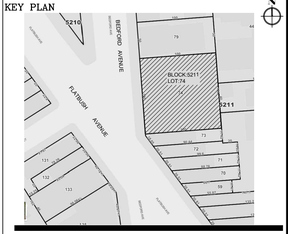
LMW Engineering Group, LLC.
Jieming Wang, P.E, 074354
125 Lexington Avenue.
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Tel: (908) 862-7600
Fax: (908) 862-8998

ARCHITECT:

CONTRACTOR:

Shahinaz Moubarek APPROVED Date: 03/23/2026

KEY PLAN



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No.	Revision Comment	Date

SCALE AS SHOWN

PROJECT:
SUPPORT OF EXCAVATION OF PROPOSED 3 STORY BUILDING AT 2625 BEDFORD AVENUE, BROOKLYN, NY 11226;
BLOCK: 5211 LOT: 74

DRAWING TITLE:

DETAILS

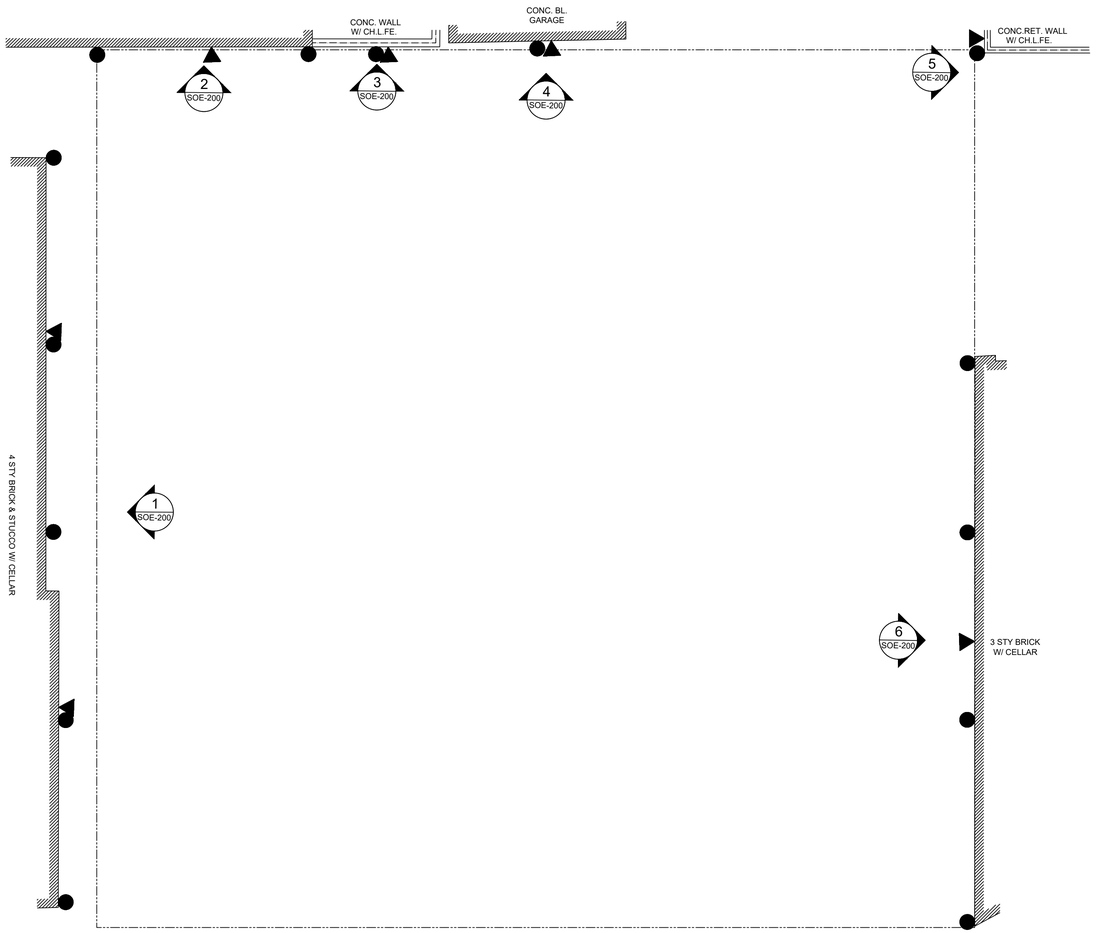
DOB NOW Job #: B01330433 - S4

SEAL & SIGNATURE
JIEMING WANG STATE OF NEW YORK 074354 LICENSED PROFESSIONAL ENGINEER

DATE:	12-26-2025
PROJECT NO.:	25-6190
DRAWING BY.:	G.X.
CHK. BY:	J.W.
DWG. NO.:	

SOE-105.00

CADO FILE NO.: 6 OF 7

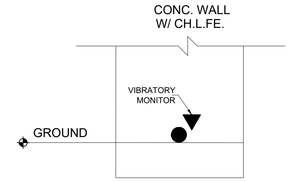


MONITORING PLAN

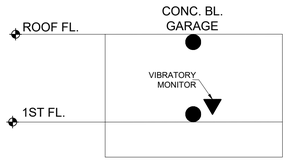
SCALE: 1/8" = 1'-0"

LEGEND:

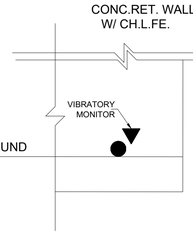
- VIBRATORY MONITOR (EXTERIOR MOUNTED ON MASONRY WALL)
- OPTICAL SURVEY POINT AT ROOF LINE AND GRADE LINE



3 SOE-200 MONITORING LOCATION ELEVATION



4 SOE-200 MONITORING LOCATION ELEVATION



5 SOE-200 MONITORING LOCATION ELEVATION

SURVEY & MONITORING NOTES:

1. A PRE-CONSTRUCTION (PRE-CONDITION) SURVEY OF THE ADJACENT STRUCTURES AND BUILDINGS SHALL BE PERFORMED PRIOR TO CONSTRUCTION IN ACCORDANCE WITH THE BUILDING PROTECTION PLAN. THE CONTRACTOR SHALL REVIEW AND FAMILIARIZE HIMSELF WITH THE RESULTS OF THE SURVEY. THE CONTRACTOR SHALL MAKE A VISUAL INSPECTION OF THE ADJACENT STRUCTURES (INSIDE AND OUT) PRIOR TO STARTING THE WORK.

2. MONITOR THE ABUTTING BUILDINGS AND STRUCTURES BY OPTICAL SURVEY AT ABOUT 25-FT INTERVALS FOR VERTICAL AND LATERAL MOVEMENT. NOTE THAT BUILDING MONITORING LOCATIONS ARE NOT SHOWN ON THE SUPPORT OF EXCAVATION PLAN FOR CLARITY.

3. CRACK GAUGES SHALL BE INSTALLED ON EXISTING NEIGHBORING BUILDING CRACKS AND MONITORED DURING EXCAVATION AND UNDERPINNING OPERATIONS.

4. OBTAIN BASELINE READINGS OF THE MONITORING POINTS PRIOR TO EXCAVATION AND NEW CONSTRUCTION. HORIZONTAL AND VERTICAL SURVEY DATA TO BE OBTAINED BY A NEW YORK STATE LICENSED SURVEYOR.

5. PERFORM OPTICAL SURVEYS AT LEAST ONCE PER WEEK DURING EXCAVATION AND FOUNDATION CONSTRUCTION. IF MOVEMENTS OCCUR, INCREASE THE FREQUENCY OF THE READING AS RECOMMENDED BY THE ENGINEER.

6. VIBRATION MONITORS (SEISMOGRAPHS) SHALL BE PLACED ADJACENT TO AREAS WHERE WORK IS BEING PERFORMED AS NEGOTIATED WITH THE NEIGHBORING BUILDINGS. NOTE THAT THE SEISMOGRAPH LOCATIONS ARE NOT SHOWN ON THE SUPPORT OF EXCAVATION PLAN FOR CLARITY.

7. BUILDING MOVEMENT AND VIBRATION CRITERIA:

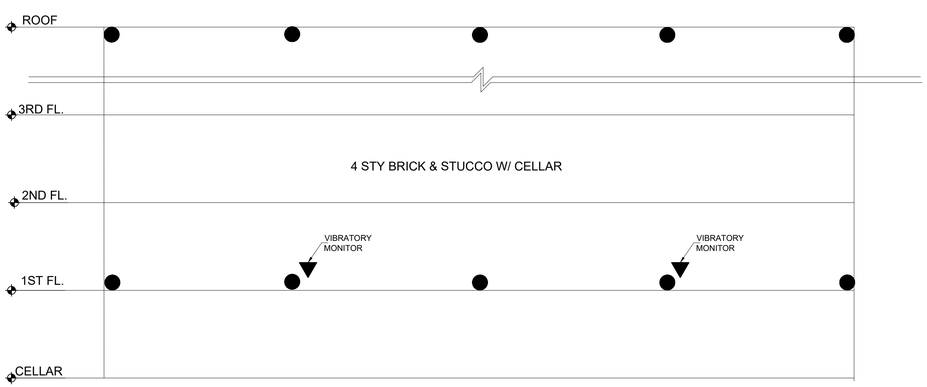
A. IF THE VERTICAL OR LATERAL BUILDING MOVEMENT REACHES 1/4-INCH, IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER, OWNER AND ENGINEER.

B. IF THE VERTICAL OR LATERAL BUILDING MOVEMENT REACHES 1/2-INCH, IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER, OWNER, ENGINEER, AND STOP WORK. THE WORK SHALL RESUME UPON APPROVAL BY THE CONSTRUCTION MANAGER, OWNER, ENGINEER, OF APPROVED REMEDIAL MEASURES AND/OR MODIFIED CONSTRUCTION PROCEDURES.

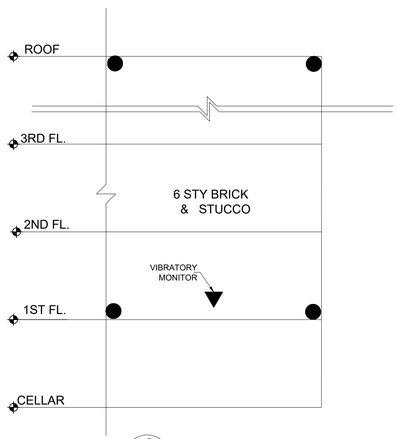
C. IF THE VIBRATIONS EXCEED 0.5-IPS, IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER, OWNER AND ENGINEER. IF THE VIBRATIONS EXCEED 0.75-IPS, AND/OR ANY INDIVIDUAL CRACK GAUGE READING EXCEEDS 2MM, IMMEDIATELY INFORM THE CONSTRUCTION MANAGER, OWNER, ENGINEER, AND STOP WORK. THE WORK SHALL RESUME UPON APPROVAL BY THE CONSTRUCTION MANAGER, OWNER, ENGINEER, OF APPROVED REMEDIAL MEASURES AND/OR MODIFIED CONSTRUCTION PROCEDURES. INFORM NYC DOB EXCAVATION UNIT. OBSERVE NEIGHBORING STRUCTURE CONDITIONS AND REVIEW AND MODIFY AS NECESSARY, THIS MEANS AND METHODS FOR EXCAVATION, AND SUPPORT OF EXCAVATION AND UNDERPINNING PER CONSTRUCTION. WORK SHALL NOT COMMENCE UNTIL AGREED UPON CORRECTIVE ACTION IS IMPLEMENTED BY THE CONTRACTOR.

8. VIBRATION MONITORS SHALL TAKE REAL-TIME READINGS.

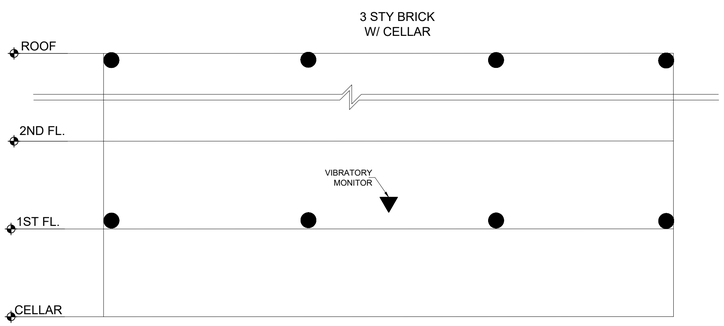
9. ALL MONITORING DATA SHALL BE PRESENTED TO THE CONSTRUCTION MANAGER, OWNER, ENGINEER, AT THE END OF EACH DAY, OR AT AGREED-UPON INTERVALS.



1 SOE-200 MONITORING LOCATION ELEVATION



2 SOE-200 MONITORING LOCATION ELEVATION



6 SOE-200 MONITORING LOCATION ELEVATION

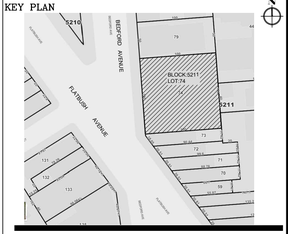
LMW Engineering Group, LLC.
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ARCHITECT:

CONTRACTOR:

Shahinaz Moubarek
APPROVED
Date: 03/23/2026

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DRAWING TITLE:

MONITORING PLAN

DOB NOW Job #: B01330433 - S4

SEAL & SIGNATURE

STATE OF NEW YORK
JIEMING WANG
074354
LICENSED PROFESSIONAL ENGINEER

DATE:	12-26-2025
PROJECT NO.:	25-6190
DRAWING BY.:	G.X.
CHK. BY:	J.W.
DWG. NO.:	SOE-200.00
CADO FILE NO.:	7 OF 7