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REVISIONS

NO.	DATE	DESCRIPTION
06	06-20-19	REVISED PER ARCH. DWGS.
05	02-04-19	REVISED SET
04	11-20-18	REVISED SET
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01	10-13-17	REVISED SET

SEAL & SIGNATURE



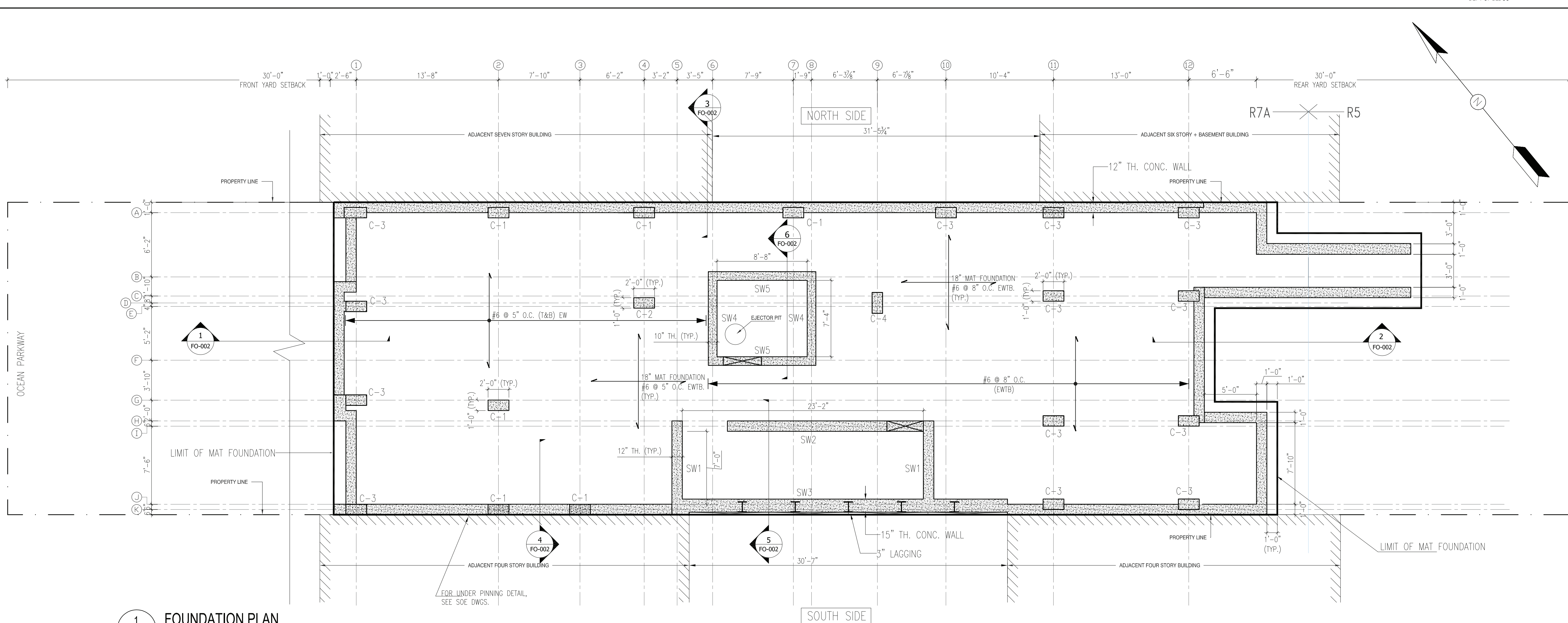
NEW YORK CITY BUILDING DEPARTMENT NOTE
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LOCATION:
**491 OCEAN PARKWAY
 BROOKLYN, NY 11218**

DRAWING TITLE:
FOUNDATION PLAN

DATE: 05-07-2018 PROJECT NO. 2017-20
 DRAWN BY: AQEEL CHECKED BY: YT
 DRAWING NO:
FO-001.01
 SHEET NO:



1 FOUNDATION PLAN
 SCALE: NTS

ENERGY CODE PROGRESS INSPECTIONS

Y	N	PROGRESS INSPECTIONS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	INSULATION PLACEMENT AND R VALUES (IA2), (IIA2)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	FENESTRATION THERMAL VALUES AND RATINGS (IA3), (IIA3)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	FENESTRATION AREAS (IA5), (IIA5)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AIR SEALING AND INSULATION - VISUAL (IA6), (IIA6)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	LIGHTING IN DWELLING UNITS (IIC2)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	INTERIOR LIGHTING POWER (IC2), (IIC3)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	EXTERIOR LIGHTING POWER (IIC4)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	LIGHTING CONTROLS (IIC5)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	EXIT SIGNS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	PERMAMENT CERTIFICATE (ID2)

SPECIAL INSPECTION ITEMS REQUIRED

YES	NO	SPECIAL INSPECTIONS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	FIRE-RESISTANT PENETRATIONS & JOINTS (BC 1704.27)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ENERGY CODE COMPLIANCE INSPECTIONS (BC 110.3.5)

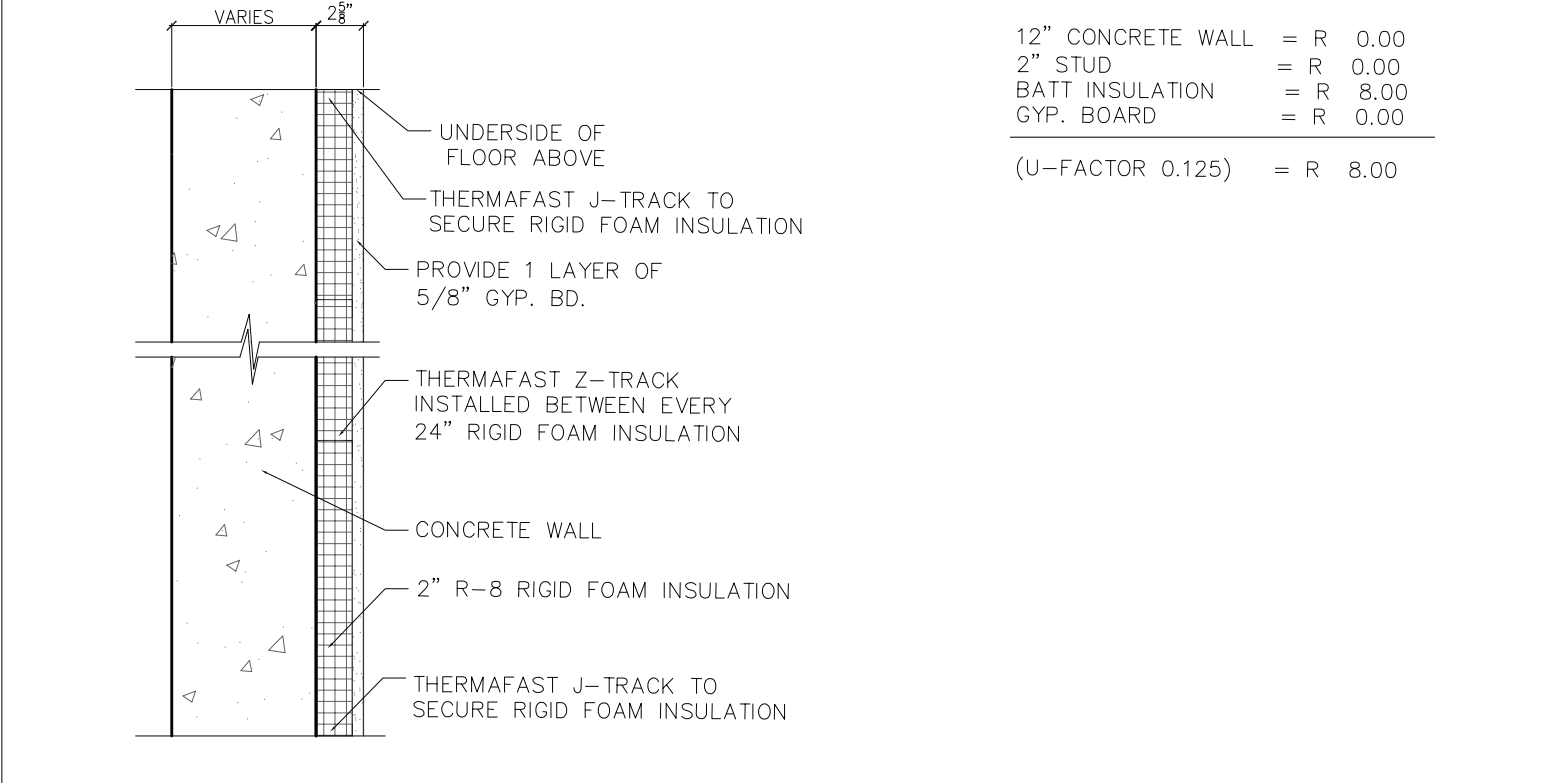
SUPPORTING DOC. REFERENCE GUIDE:

INFORMATION INDICATED IN THE ENERGY ANALYSIS CAN BE FOUND ON DRAWING EN - A100 TO EN - A105

NYCECC COMPLIANCE NOTE

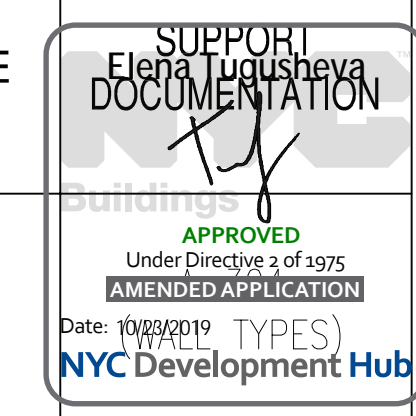
" TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NYCECC 2016"

EXTERIOR CONCRETE W/ FURRING ASSEMBLY R - VALUE



ENERGY ANALYSIS: 2016 NYCECC CHAPTER 4 - CLIMATE ZONE 4

CITATION	ITEM DESCRIPTION	PROPOSED DESIGN VALUE	CODE PRESCRIPTIVE VALUE
ECC C402 TABLE 402.1.3	WALLS, BELOW GRADE (FOUNDATION WALL)	R-8 CI	R-7.5 CI



SWX - SHEAR WALL

- NOTES:
- SEE COLUMN SCHEDULE ON DWG. S-200 FOR REINF. & SIZE.
 - FOR OTHER NOTES, SEE DWG. S-001.
 - FOR UNDER PINNING & SHEET PILING DETAILS, SEE "SOE" DRAWINGS.
 - FOR OPENINGS IN FLOOR/WALLS ETC., SEE ARCHITECTURAL DWGS.

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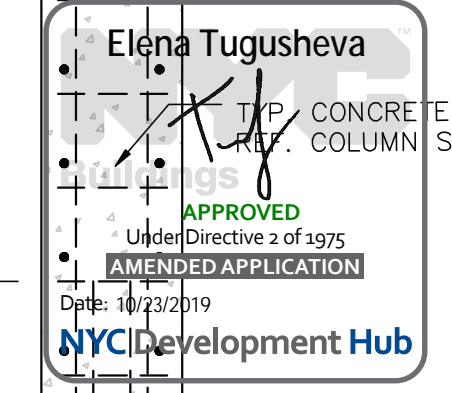
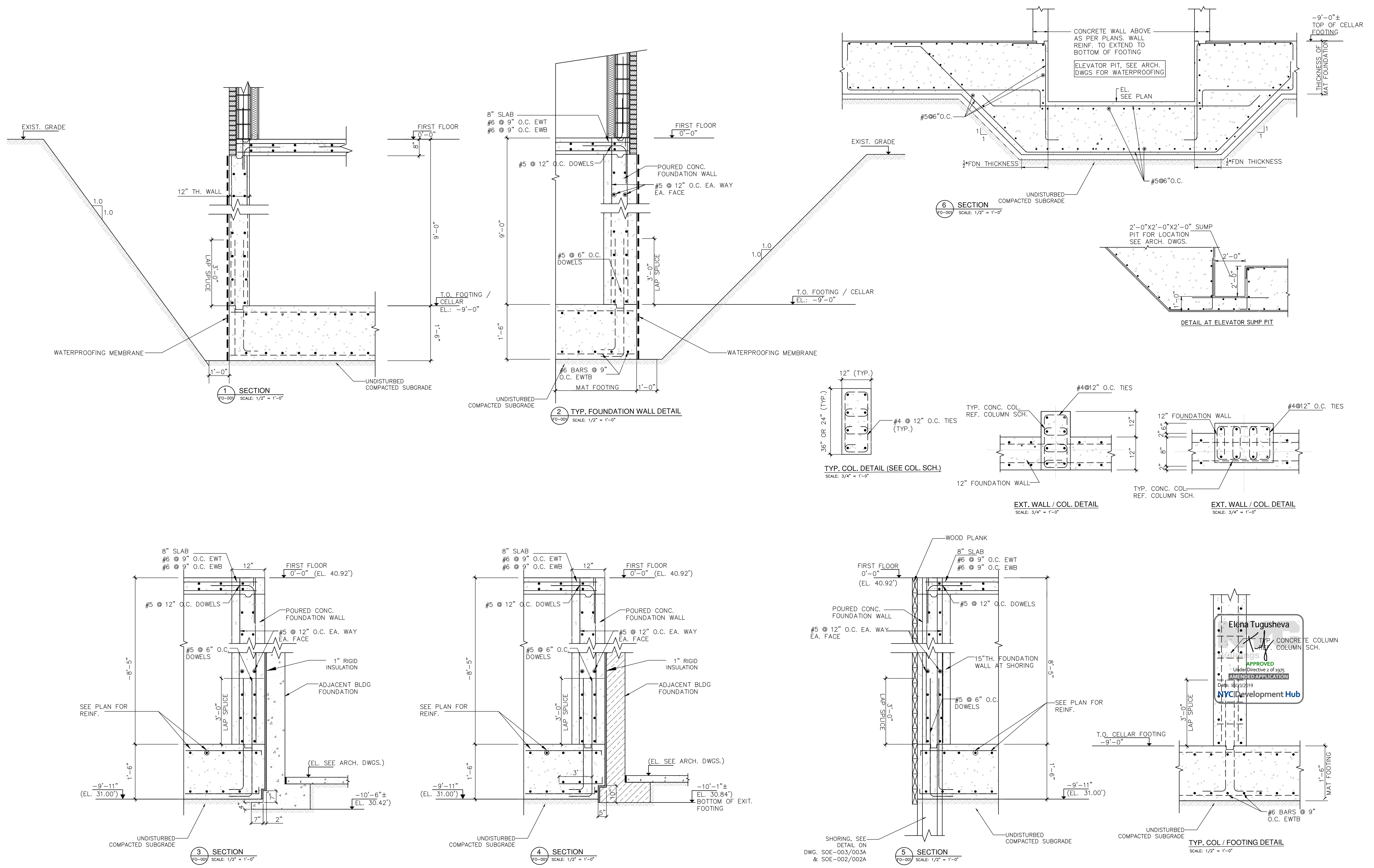
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DATE: 05-07-2018 PROJECT NO. 2017-20

DRAWN BY: AQEEL CHECKED BY: YT

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SHEET NO:



APPROVED
 Under Directive 2 of 2015
 05/07/2019
 NYCDepartment Hub

GENERAL NOTES - EXCAVATION AND SHORING:

- 1. TEN DAYS PRIOR STARTING WORK, CONTACT THE NEW YORK STATE UNDERGROUND UTILITIES PROTECTIVE ORGANIZATION (1-800-962-7962) TO MARK LOCATIONS OF EXISTING UTILITIES. LOCATE ALL ADJACENT UTILITIES BY THE TEST HOLES PRIOR TO EXCAVATION OR INSTALLATION OF SOLDIER BEAMS. RELOCATE SHEETING OR INTERFERING UTILITIES AS REQUIRED. VERIFY LOCATION OF ALL ADJACENT UTILITIES AND FOUNDATION PILES.
2. MAINTAIN SAFE CLEARANCE BETWEEN ANY OVERHEAD OR UNDERGROUND UTILITIES AND CRANE, HOE, OR DRILL RIG BOOMS DURING INSTALLATION OF SOLDIER BEAMS, TIEBACK ANCHORS, AND WALES.
3. INSTALL SOLDIER BEAMS IN THE LOCATIONS AND THE DEPTHS REQUIRED. ADJUST LOCATIONS FOR SOLDIER BEAMS AS REQUIRED TO AVOID EXISTING UTILITIES.
4. A SAFETY HANDRAIL AND KICKBOARD SHALL BE INSTALLED ALONG THE TOPS OF THE SHEETING WALLS PER OSHA STANDARDS PRIOR TO A MAXIMUM EXCAVATION DEPTH OF 4 FEET.
5. EXCAVATE AND INSTALL TIMBER LAGGING IN MAXIMUM VERTICAL LIFTS BRACING. DECREASE HEIGHT OF LAGGING LIFTS IF REQUIRED TO MAINTAIN A STABLE VERTICAL FACE. LAGGING SHALL BE TUCKED BEHIND OR BE ATTACHED TO THE FLANGES OF THE SOLDIER BEAMS. LAGGING SHALL BE 3" NOMINAL THICKNESS, UNTREATED, MIXED HARDWOODS. EACH LIFT OF LAGGING SHALL BE BACKFILLED AS NECESSARY SO THAT THE SOIL IS TIGHT AGAINST THE LAGGING.
6. INSTALL 1 1/2" LOUVER BLOCKS BETWEEN TIMBER LAGGING BOARDS. IF REQUIRED, PACK LOUVER SPACE WITH STRAW OR POROUS GEOTEXTILE FABRIC TO CONTROL GROUND WATER LEAKAGE AND PREVENT SOIL LOSS FROM BEHIND THE LAGGING
7. CONTINUE EXCAVATING AND LAGGING TO SUBGRADE AND CONSTRUCT THE PROPOSED FOUNDATION.
8. DURING BACKFILL, THE TOPS OF THE SOLDIER BEAMS SHALL BE CUT OFF AND REMOVED TO BELOW FINAL GRADE.
9. STRUCTURAL MEMBERS OF EQUIVALENT OR GREATER STRENGTH MAY BE SUBMITTED FOR THOSE SHOWN, ENGINEER SHALL BE NOTIFIED OF PROPOSED MEMBER SUBSTITUTING PRIOR TO OTHER INSTALLATION.

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EXCAVATION AND FOUNDATION NOTES:

- 1. ALL MATERIAL, FABRICATION, INSTALLATION AND INSPECTION REQUIREMENTS RELATING TO THE FOUNDATIONS SHALL CONFORM TO THE LOCAL BUILDING CODE.
2. ALL STRUCTURAL WORK SHALL BE COORDINATED AND VERIFIED WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING REQUIREMENTS.
3. THE CONTRACTOR SHALL DEMOLISH AND REMOVE EXISTING ELEMENTS AS INDICATED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL REMOVE, TRANSPORT AND DISPOSE OF ALL DEBRIS PROMPTLY (AS REQUIRED)
4. DEMOLITION SHALL BE DONE CAREFULLY. TAKE SPECIAL CARE NOT TO DAMAGE ANY EXISTING UNDERSLAB UTILITIES OR OTHER ELEMENTS NOT DESIGNED FOR REMOVAL.
5. THE CONTRACTOR SHALL PROTECT ALL EXCAVATIONS FROM FLOODING AND EXISTING WATER TABLE AND PROVIDE CONTINUOUS PUMPING AS REQUIRED FOR PERFORMANCE OF WORK. THE DEPTH OF EXCAVATION SHALL NOT BE CARRIED DEEPER THAN SPECIFIED IN THE CONTRACT DOCUMENTS WITHOUT THE ENGINEER OF RECORD'S CONSENT (REFER GEO-TECH REPORT FOR GROUND WATER TABLE.
6. THE SUBGRADE FOR FOOTINGS AND SLABS SHALL BE INSPECTION AGENCY IMMEDIATELY PRIOR TO PLACING FOUNDATION CONCRETE.
7. ALL MEANS & METHODS FOR UNDERPINNING, SHEETING, SHORING OR OTHER SPECIAL CONSTRUCTION REQUIRED SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE SUBJECT TO SPECIAL INSPECTIONS AS REQUIRED BY THE LOCAL CITY BUILDING CODE.
8. DO NOT PLACE CONCRETE WITHOUT APPROVED STRUCTURAL SHOP DRAWINGS AND MECHANICAL/ARCHITECTURAL SHOP DRAWINGS RELATED TO THE CONCRETE WORK.

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STRUCTURAL NOTES:

- 1. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING CODE AND STATE OF NEW YORK.
2. COORDINATE THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL AND M/E/P DRAWINGS.
3. EXISTING CONDITIONS, ELEVATORS, DIMENSIONS AND SYSTEMS SHOWN ON PLANS ARE BASED ON LIMITED FIELD OBSERVATIONS. THE CONTRACTOR SHALL FIELD-VERIFY ALL DETAILS, DIMENSIONS AND ASSUMPTIONS PRIOR TO ANY WORK. WHERE EXISTING CONDITIONS DIFFER FROM OR PRECLUDE THE EXECUTION OF THE OUTLINED DETAILS, THE ENGINEER SHALL BE NOTIFIED.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL FINAL FIELD-VERIFIED DIMENSIONS AND SHALL SUBMIT FIELD-VERIFIED DIMENSIONED SHOP DRAWINGS.
5. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SHORING AND BRACING REQUIRED FOR PLUMBNESS, STABILITY AND SAFETY. WHENEVER REQUIRED TO SUPPORT LOADS AS MAY BE IMPOSED UPON THE STRUCTURE DURING CONSTRUCTION, BRACING AND SHORING SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND HIS/HER PROFESSIONAL ENGINEER. STAGING AND SEQUENCE OF SHORING, BRACING OR OTHER CONSTRUCTION REQUIRED FOR SUCH WORK SHALL BE PREPARED IN THE FORM OF SHOP OR DETAIL DRAWINGS AND CALCULATIONS.
6. DO NOT FABRICATE ANY WORK WITHOUT APPROVED STRUCTURAL SHOP DRAWINGS FOR ALL STRUCTURAL WORK, AND MECHANICAL/ARCHITECTURAL SHOP DRAWINGS RELATED TO THE STRUCTURAL WORK.
7. CONTRACTOR TO PROTECT AT ALL TIMES EQUIPMENT, PIPES AND OTHER EXPOSED OR EMBEDDED ITEMS ON THE SITE AGAINST DAMAGE. REROUTE AS REQUIRED PER M/E/P DRAWINGS.

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STRUCTURAL STEEL NOTES:

- 1. STRUCTURAL STEEL SHALL COMPLY WITH ASTM A572 GRADE 50, UNLESS OTHERWISE NOTED.
2. STRUCTURAL STEEL TUBING SHALL COMPLY WITH ASTM A500, UNLESS OTHERWISE NOTED.
3. SUBMIT SHOP DRAWINGS FOR ALL WORK. DO NOT PROCEED WITH ANY FABRICATION UNTIL THE SHOP DRAWINGS ARE REVIEWED AND APPROVED. SHOP DRAWINGS SHALL BE BASED ON FIELD-VERIFIED CONDITIONS.
4. AFTER FABRICATION, CLEAN STEEL OF ALL RUST, LOOSE MILL, SCALE AND OTHER FOREIGN MATERIALS.
5. ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS AND SHALL CONFORM TO "AWS STRUCTURAL WELDING CODE-STEEL", LATEST EDITION. WELDERS SHALL BE LICENSED BY THE BUILDING SUPERINTENDENT IN ACCORDANCE WITH ALL REQUIREMENTS OF THE CITY OF NEW YORK LOCAL BUILDING CODE, AND THE RULES AND REGULATIONS OF THE BOARD OF STANDARDS AND APPEALS.
6. WELDING ELECTRODES SHALL BE E70XX FOR NEW CONST. AND E60 LOW HYDROGEN FOR EXISTING.
7. MINIMUM FILLET WELDS SHALL COMPLY WITH AISC, BUT SHALL NOT BE LESS THAN 1/4 INCH, UNLESS OTHERWISE NOTED.
8. PROVIDE FIREPROOF BLANKETS AND OTHER FIRE PROTECTION MEASURES AS REQUIRED FOR FIRE SAFETY DURING WELDING.
9. SURFACES OF ALL STEEL THAT IS TO RECEIVE WELDS SHALL BE POWER BRUSHED AND CLEANED THOROUGHLY OF ALL FOREIGN MATTER AND PAINT FOR A DISTANCE OF 2 INCHES FROM EACH SIDE OF THE OUTSIDE LINE OF WELD.

NOTES OF UNDERPINNING PROCEDURES:

- 1. A PRE-CONSTRUCTION SURVEY SHALL BE PERFORMED ON THE BUILDING TO BE UNDERPINNED BY AN INDEPENDENT PROFESSIONAL, IN ORDER TO DOCUMENT EXISTING CONDITION OF THE BUILDING. PAY ATTENTION TO AND DOCUMENT SIGNS OF EXISTING STRESS INCLUDING CRACKS, SAGGING, TIGHT DOORS, ETC. THE SURVEY SHALL INCLUDE PICTURES, MEASUREMENTS, ETC. LOCATE ALL ADJACENT UTILITIES BY TEST PIT AND NOTIFY ONE CALL PRIOR TO START OF UNDERPINNING.
2. A SURVEY MONITORING SYSTEM SHALL BE ESTABLISHED PRIOR TO BEGINNING UNDERPINNING. BOTH HORIZONTAL AND VERTICAL MOVEMENTS SHALL BE MONITORED ON A DAILY BASIS AS UNDERPINNING IS PROCEEDING. AN ENGINEER AND THE PROJECT ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY STRUCTURE MOVEMENTS.
3. UNDERPINNING PITS ARE CLASSIFIED BY OSHA AS CONFINED SPACES AND ALL APPLICABLE REQUIREMENTS SUCH AS AIR MONITORING, PERSONAL RETRIEVAL SYSTEMS, ACCESS, ETC., MUST BE IMPLEMENTED.
4. THE AREA ADJACENT TO ELEVATOR SHALL BE EXCAVATED TO AN ELEVATION APPROXIMATELY AT THE BOTTOM OF EXISTING FOOTING. NOTIFY THE ENGINEER IF BOTTOM OF FOOTING ELEVATIONS VARY FROM WHAT IS SHOWN ON THE DRAWINGS. ROOF, FOUNDATION, AND AREA DRAINS IN THE UNDERPINNING AREA SHALL BE REROUTED AS NECESSARY TO PREVENT DISCHARGE INTO THE UNDERPINNING WORK AREA. SLOPE THE GROUND SURFACE AWAY FROM THE FOUNDATION JUST ENOUGH TO PREVENT ACCUMULATION OF SURFACE WATER ALONG THE UNDERPINNING AREA. AN APPROACH PIT APPROXIMATELY 3' DEEP AND EQUAL TO THE UNDERPINNING PIT WIDTH SHALL BE EXCAVATED AND SHORED IN FRONT OF THE EXISTING FOUNDATION.
5. THE APPROACH PIT SHALL BE EXTENDED UNDER THE FOOTING TO THE BACK OF THE UNDERPINNING PIT AND SHEETING CONSISTING OF UNTREATED 3" NOMINAL (MINIMUM) THICKNESS LUMBER INSTALLED. THE OUTSIDE OF THE PIT RINGS (SHEETING) SHALL BE BACKFILLED AND COMPACTED AS NECESSARY. VOIDS BEHIND THE PIT RINGS ARE NOT ALLOWED. LINE LOUVERS WITH FILTER FABRIC ALLOW FOR VISUAL INSPECTION AND FILLING OF ANY VOIDS. UNDERPINNING PIT SHORING AND INTERIOR LAGGING SHALL BE 3" NOMINAL DIMENSION, HEM-FIR OR DOUGLAS FIR-LARCH, NO. 2 OR BETTER.
6. THE UNDERPINNING PIT EXCAVATION UNDER THE FOOTING SHALL PROGRESS DOWNWARD BY HAND EXCAVATION AS ADDITIONAL PIT RINGS ARE INSTALLED. IN NO CASE SHALL EXCAVATION GREATER THAN 1'-0" BE PERFORMED WITHOUT INSTALLATION OF PIT RING BOARDS.
7. EXCAVATION AND INSTALLATION OF PIT RINGS SHALL BE EXTENDED TO THE BOTTOM OF PIT ELEVATION. DO NOT DISTURB THE BOTTOM OF PIT MATERIAL DURING EXCAVATION. BOTTOM OF PIT SHALL BE INSPECTED FOR ADEQUATE BEARING. IF BEARING AT THE BOTTOM OF PIT IS NOT ADEQUATE, THE ENGINEER SHALL BE NOTIFIED POSSIBLE ADJUSTMENTS INCLUDE BELLING THE BOTTOM OF THE PIT, EXTENDING THE PIT DEEPER, INCREASING THE NUMBER OF UNDERPINNING PIERS, ETC., AS DETERMINED BY THE ENGINEER.
8. BULPHEAD THE APPROACH PIT AND POUR THE PIT WITH 4,000 PSI CONCRETE LEAVING THE TOP OF CONCRETE APPROXIMATELY 3" BELOW THE BOTTOM OF THE FOOTING. CONCRETE MAY BE PLACED USING THE FREE-FALL METHOD. PUMPING OR TREMIE PLACEMENT OF CONCRETE IS NOT REQUIRED.
9. THE NEXT WORK DAY, DRIVE STEEL WEDGES & TACK WELD IN PLACE. THEN DRYPACK THE UNDERPINNING PIER BY TAMPING THE DRYPACK WITH A SHORT PIECE OF 2X4 POUNDED WITH AN 8LB. HAMMER TO COMPLETELY FILL THE SPACE. DRYPACK SHALL CONSIST OF A MIXTURE OF TWO PARTS SAND AND ONE PART TYPE I CEMENT WITH JUST ENOUGH WATER TO FORM A BALL WHEN SQUEEZED IN HAND.
10. UPON COMPLETION OF DRYPACK, ADJACENT UNDERPINNING PITS MAY BE EXCAVATED. IF PIERS ARE CONTINUOUS, THE SIDE BOARDS SHOULD BE STRIPPED AS EXCAVATION PROCEEDS.

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- 11. UPON COMPLETION OF ALL UNDERPINNING PIERS THE SITE MAY BE EXCAVATED AS TIEBACKS ARE INSTALLED WHERE REQUIRED. IF NECESSARY, FRONT AND SIDE RING BOARDS BETWEEN PIERS SHALL BE REMOVED.
12. WIDTH OF UNDERPINNING PIERS, DEPTH PRIOR TO RING BOARDS INSTALLATION, SPACING BETWEEN PIERS, ETC. SHALL BE REQUIRED, AS WARRANTED, IF LOOSE MATERIAL OR DETERIORATED FOUNDATION IS ENCOUNTERED. SEE GEO-TECH REPORT.
13. NO TWO UNDERPINNING PITS CLOSER THAN 12' CENTER TO CENTER, NOR TWO ADJACENT COLUMN FOOTINGS, MAY BE UNDERPINNED CONCURRENTLY.
14. UNDERPINNING PIERS SHALL BE SHEETED ON FOUR SIDES WITH CONSTRUCTION GRADE HORIZONTAL TIMBERS. CONTRACTOR SHALL DESIGN AND INSTALL SHEETING CAREFULLY TO AVOID ANY LOSS OF SOIL OR SUPPORT FROM BENEATH THE NEIGHBORING BUILDING. SLAB-ON-GRADE. THE HORIZONTAL TIMBER BOARDS SHALL BE "LOUVERED", THATS THEY SHALL BE SPACED APART 1" TO 2" TO PERMIT FILLING AND BACKPACKING OF ANY VOIDS THAT OCCUR BEHIND THE HORIZONTAL SHEETING. SHEETING SHALL BE BACKPACKED WITH PERMEABLE SOIL TO PREVENT ANY BUILD-UP OF HYDROSTATIC PRESSURE BEHIND SHEETING.

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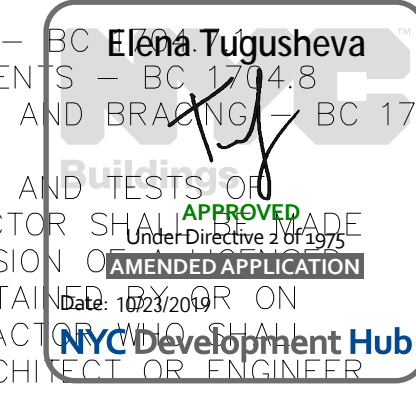
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OWNER SHALL ENGAGE AN INDEPENDENT AGENCY FOR VIBRATION, CRACKS & MOVEMENT MONITORING AND SHALL FOLLOW THE REQUIREMENTS OF TPP # 10/88.

TEST PITS SHALL BE PERFORMED, WHERE REQUIRED, TO CONFIRM THE FIELDS CONDITION PRIOR TO THE COMMENCEMENT OF WORK. SEE DWG. SOE-002 OR SOE-002A FOR LOCATION.

SPECIAL INSPECTION NOTES:

- 1. ALL CONTROLLED INSPECTIONS SHALL BE CONDUCTED BY A SPECIAL INSPECTION AGENCY RETAINED BY THE CONTRACTOR. SUCH AGENCY SHALL BE REGISTERED WITH THE N.Y.C. DEPARTMENT OF BUILDING AS QUALIFIED TO CONDUCT SPECIFIED INSPECTIONS AND EMPLOY SPECIAL INSPECTORS.
2. THE CONTRACTOR MUST NOTIFY THE INSPECTIONS AT LEAST 72 HOURS BEFORE THE SPECIFIC WORK COMMENCES.
3. INSPECTIONS UNDER STRUCTURAL APPLICATION
3.1 SUB GRADE INSPECTION - BC 1704.8
3.2 DEEP FOUNDATION ELEMENTS - BC 1704.8
3.3 EXCAVATIONS-SHEETING, AND BRACING - BC 1704.20.2
4. ANY REQUIRED INSPECTIONS AND TESTS OF MATERIALS BY THE CONTRACTOR SHALL BE UNDER THE DIRECT SUPERVISION OF AN ARCHITECT OR ENGINEER RETAINED BY THE CONTRACTOR ON THE BEHALF OF THE CONTRACTOR. THE ARCHITECT OR ENGINEER SHALL BE ACCEPTABLE TO THE ARCHITECT OF RECORD WHO SUPERVISED THE PREPARATION OF THE PLANS.
5. SEE ARCH. & STRUCTURAL DRAWINGS FOR ADDITIONAL INSPECTIONS.



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Table with 3 columns: NO., DATE, DESCRIPTION. Contains 5 revision entries.

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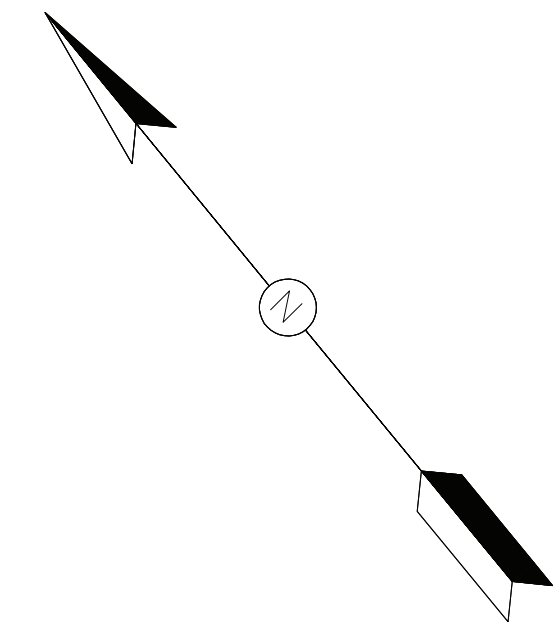
SHEET NO:

PLAN & CRITERIA FOR BUILDING MOVEMENTS & VIBRATION MONITORING:

1. PROVIDE DEFORMATION MONITORING POINT - AT 10'-0" O.C. AT UNDER PINNING LOCATION. ONE AT GROUND LEVEL & ONE AT ROOF LEVEL (ON PARAPET) - (NOT REQ'D)
2. PROVIDE DEFORMATION MONITORING POINT - ONE AT CENTER OF BUILDING AT BACKYARD. (TOP & BOTT.) - (NOT REQ'D)
3. THE MAXIMUM PERMISSIBLE MOVEMENT SHALL BE 1/4" IN ANY DIRECTION (IN ACCORDANCE WITH THE REQUIREMENTS IN TPN#10/88) - (NOT REQ'D)
4. PROVIDE VIBRATION MONITOR - AS SHOWN ON PLAN
 - (4a) THE MAXIMUM PERMISSIBLE PEAK PARTICLE VELOCITY SHALL BE 0.5 IN/SEC. WITH NO DISTANCE CRITERION.
 - (4b) THE MAXIMUM PERMISSIBLE PEAK VELOCITY SHALL BE REDUCED, IF MOVEMENTS OR CRACKING IS DETECTED.
5. A LICENSED SURVEYOR SHALL BE RETAINED TO MONITOR MOVEMENTS & TILTING OF THE BUILDINGS & TEMPORARY RETAINING SYSTEMS. (NOT REQ'D)
 - (5a) OPTICAL SURVEY READING SHALL BE TAKEN TO AN ACCURACY OF ± 0.01 FT. (NOT REQ'D)

- DEFORMATION MONITORING POINT (AT GROUND & ROOF - (NOT REQ'D) LEVEL) @10'-0" O.C.
- ⊗ VIBRATION MONITOR. AS SHOWN ON PLAN.

AUTOMATED NOTIFICATIONS FROM VIBRATION MONITOR SHALL BE SENT DIRECTLY TO GEI. (FOR DRIVEN PILE OPTION ONLY)



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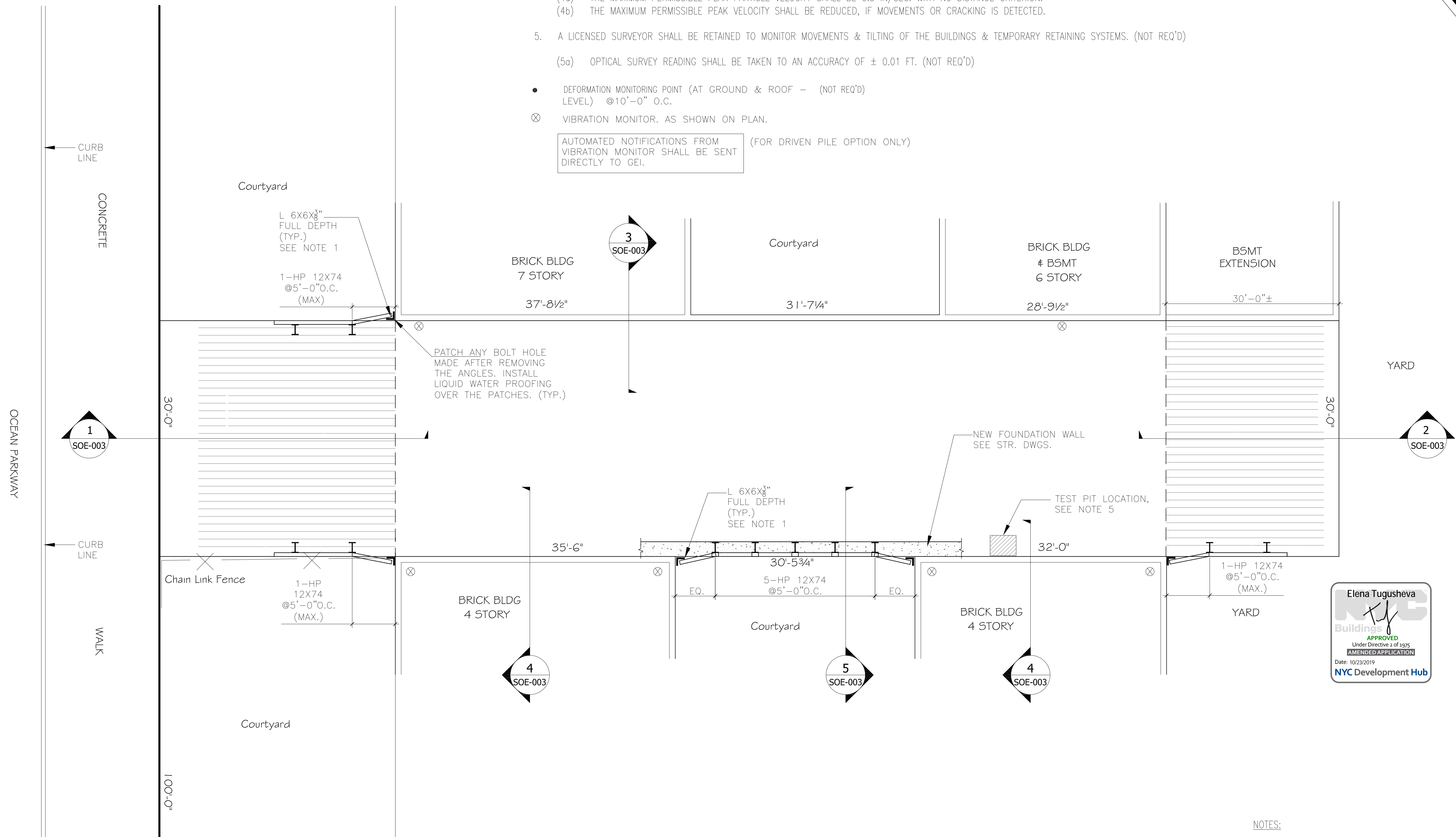
SUPPORT OF EXCAVATION PLAN

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DRAWING NO:
SOE-002.01

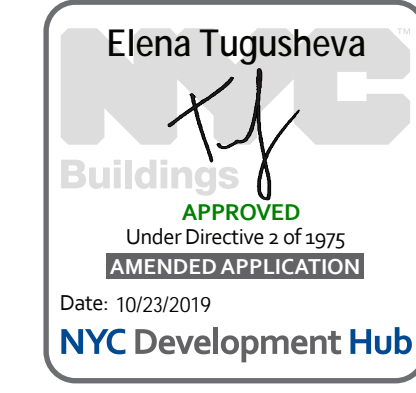
SHEET NO:



1 SUPPORT OF EXCAVATION PLAN
 SCALE: NTS

NOTES:

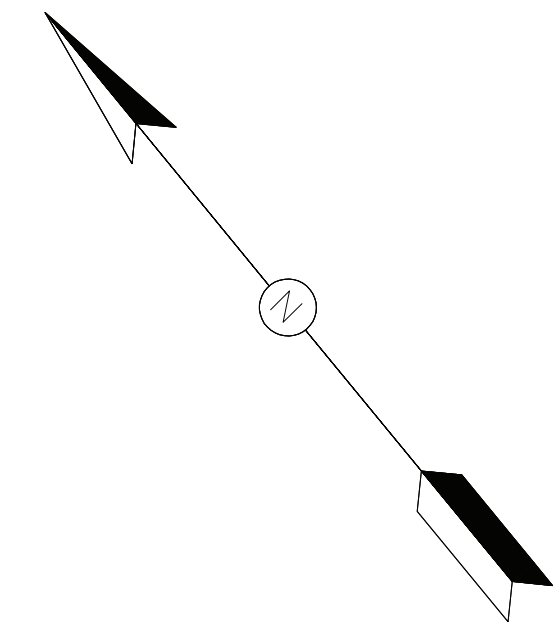
1. ATTACH L 6X6X³/₈" WITH EXISTING BUILDING WALLS USING ³/₈" DIA. HILT ANCHOR BOLTS @ 12" O.C. ATTACH 3" WOOD LAGGING WITH L6X6X³/₈" ALONG EXCAVATION DEPTH.
2. FOR OTHER NOTES, SEE DWG. S-001.
3. ALL EARTH SUPPORTING SYSTEMS ARE DESIGNED BASED ON SOIL REPORT PREPARED BY CENTURY TESTING & CONSULTING INC., ON 09/20/2017 FOR DETAILS, SEE DRAWING SOE-003.
4. EXCAVATE TEST PIT TO DETERMINE FOUNDATION BEARING LEVEL & CONDITION PRIOR TO THE COMMENCEMENT OF THE GENERAL EXCAVATION.



OCEAN PARKWAY
 CONCRETE
 WALK
 CURB LINE

PLAN & CRITERIA FOR BUILDING MOVEMENTS & VIBRATION MONITORING:

1. PROVIDE DEFORMATION MONITORING POINT - AT 10'-0" O.C. AT UNDER PINNING LOCATION. ONE AT GROUND LEVEL & ONE AT ROOF LEVEL (ON PARAPET) - (NOT REQ'D)
 2. PROVIDE DEFORMATION MONITORING POINT - ONE AT CENTER OF BUILDING AT BACKYARD. (TOP & BOT.) - (NOT REQ'D)
 3. THE MAXIMUM PERMISSIBLE MOVEMENT SHALL BE 1/4" IN ANY DIRECTION (IN ACCORDANCE WITH THE REQUIREMENTS IN TPN#10/88) - (NOT REQ'D)
 4. PROVIDE VIBRATION MONITOR - AS SHOWN ON PLAN
 - (4a) THE MAXIMUM PERMISSIBLE PEAK PARTICLE VELOCITY SHALL BE 0.5 IN/SEC. WITH NO DISTANCE CRITERION.
 - (4b) THE MAXIMUM PERMISSIBLE PEAK VELOCITY SHALL BE REDUCED, IF MOVEMENTS OR CRACKING IS DETECTED.
 5. A LICENSED SURVEYOR SHALL BE RETAINED TO MONITOR MOVEMENTS & TILTING OF THE BUILDINGS & TEMPORARY RETAINING SYSTEMS - (NOT REQ'D)
 - (5a) OPTICAL SURVEY READING SHALL BE TAKEN TO AN ACCURACY OF ± 0.01 FT. - (NOT REQ'D)
- DEFORMATION MONITORING POINT (AT GROUND & ROOF LEVEL) @10'-0" O.C. - (NOT REQ'D)
 - ⊗ VIBRATION MONITOR. AS SHOWN ON PLAN.



CONSULTANT:

ARCHITECTURE & ENGINEERING GROUP
AEG
 66 BRUNSWICK WOODS DRIVE,
 EAST BRUNSWICK, NJ 08816
 1441 BROADWAY, 6TH FLOOR,
 SUITE 6093, NEW YORK, NY 10018

YOUSUF H. TAI, P.E.
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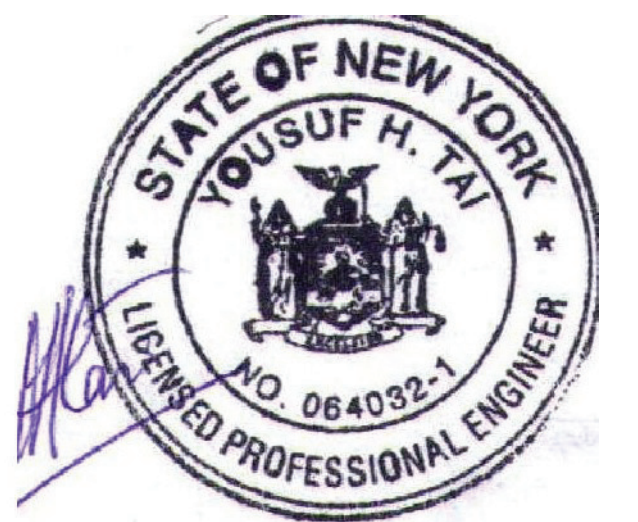
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**ALTERNATE - 1
 PREFERABLE**

REVISIONS

NO.	DATE	DESCRIPTION
02	07-05-19	REVISED PER COMMENTS
01	06-20-19	REVISED PER ARCH. DWG.

SEAL & SIGNATURE



NEW YORK CITY BUILDING DEPARTMENT NOTE
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it is a violation unlawful for any person, unless s/he is acting under the direction of a licensed professional engineer licensed in this State to alter this drawing in any way.

LOCATION:

491 OCEAN PARKWAY
 BROOKLYN, NY 11218

DRAWING TITLE:

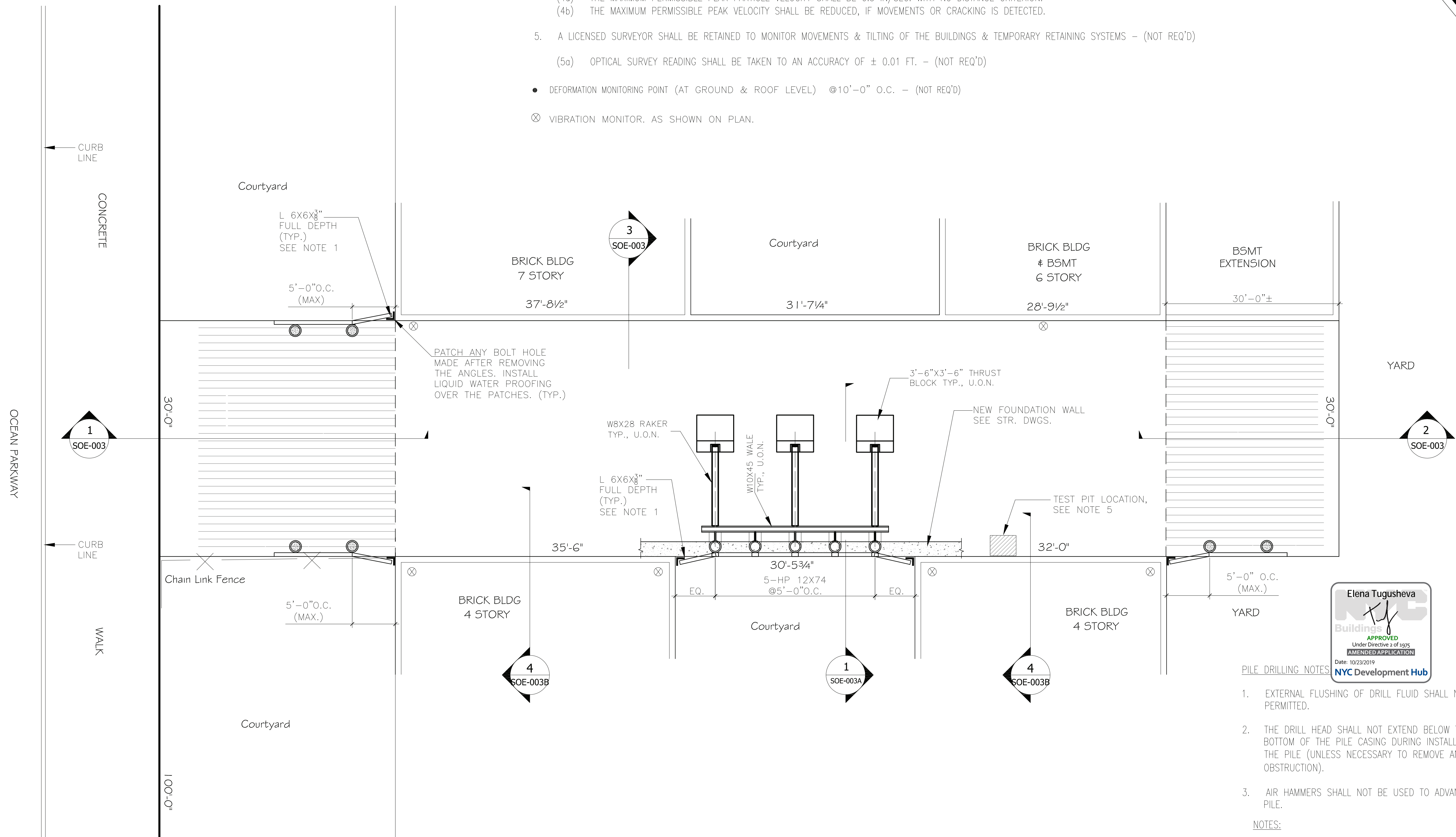
SUPPORT OF EXCAVATION
 PLAN

DATE: 05-04- 2018 PROJECT NO. 2017-20

DRAWN BY: AQEEL CHECKED BY: YT

DRAWING NO:
SOE-002A.00

SHEET NO:



1
 SUPPORT OF EXCAVATION PLAN
 SCALE: NTS

PILE DRILLING NOTES

1. EXTERNAL FLUSHING OF DRILL FLUID SHALL NOT BE PERMITTED.
2. THE DRILL HEAD SHALL NOT EXTEND BELOW THE BOTTOM OF THE PILE CASING DURING INSTALLATION OF THE PILE (UNLESS NECESSARY TO REMOVE AN OBSTRUCTION).
3. AIR HAMMERS SHALL NOT BE USED TO ADVANCE THE PILE.

NOTES:

1. ATTACH L 6X6X3/8" WITH EXISTING BUILDING WALLS USING 3/4" DIA. HILT ANCHOR BOLTS @ 12" O.C. ATTACH 3" WOOD LAGGING WITH L6X6X3/8" ALONG EXCAVATION DEPTH.
2. FOR OTHER NOTES, SEE DWG. S-001.
3. ALL EARTH SUPPORTING SYSTEMS ARE DESIGNED BASED ON SOIL REPORT PREPARED BY CENTURY TESTING & CONSULTING INC., ON 09/20/2017 FOR DETAILS, SEE DRAWING SOE-003.
5. EXCAVATE TEST PIT TO DETERMINE FOUNDATION BEARING LEVEL & CONDITION PRIOR TO THE COMMENCEMENT OF THE GENERAL EXCAVATION.



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REVISIONS		
NO.	DATE	DESCRIPTION
05	06-20-19	REVISED PER ARCH. DWG.
04	05-03-19	REVISED PER COMMENTS
03	10-10-18	REVISED SET
02	05-07-18	REVISED SET
01	10-13-17	REVISED SET

SEAL & SIGNATURE



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LOCATION:

491 OCEAN PARKWAY
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DRAWING TITLE:

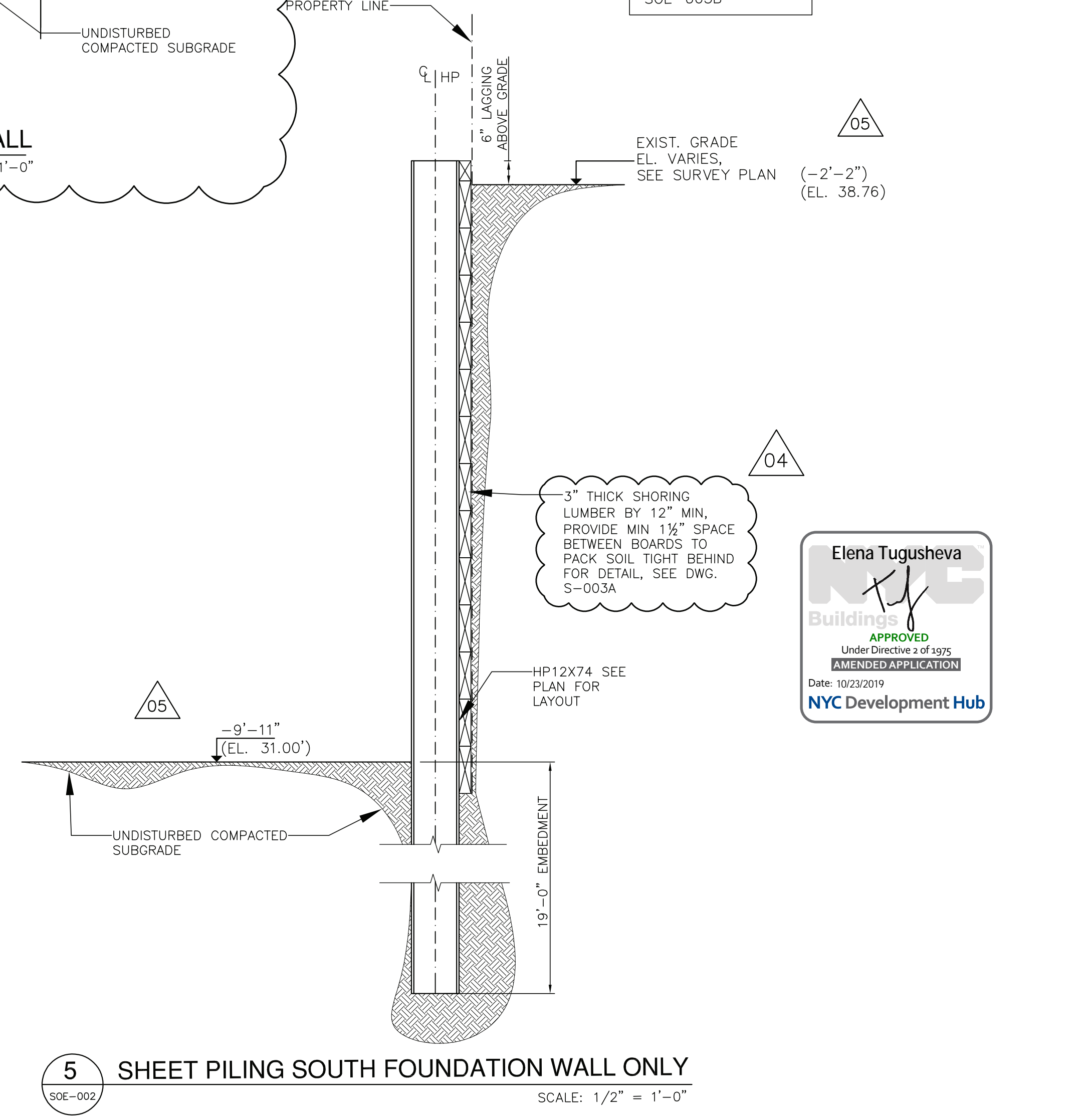
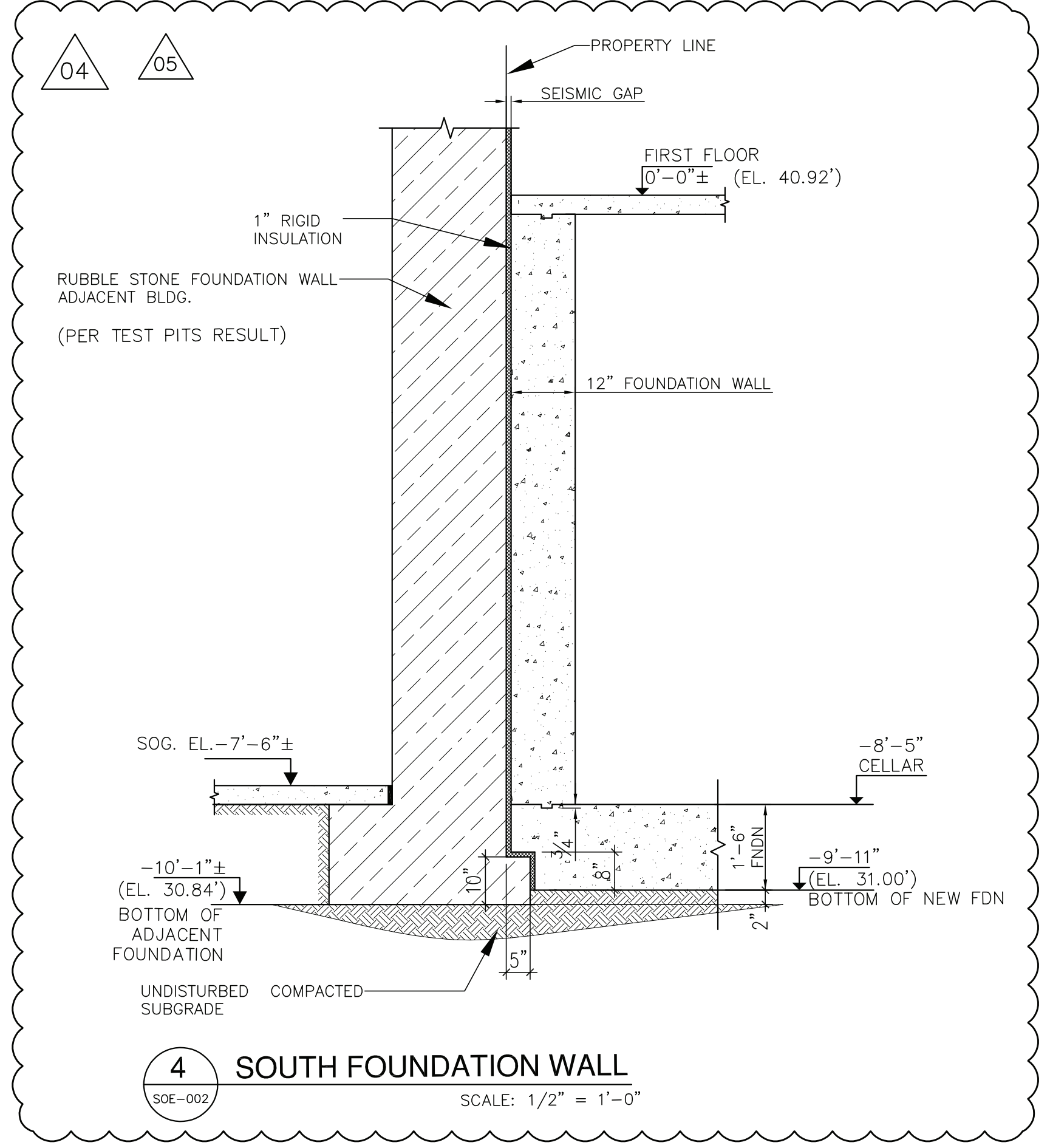
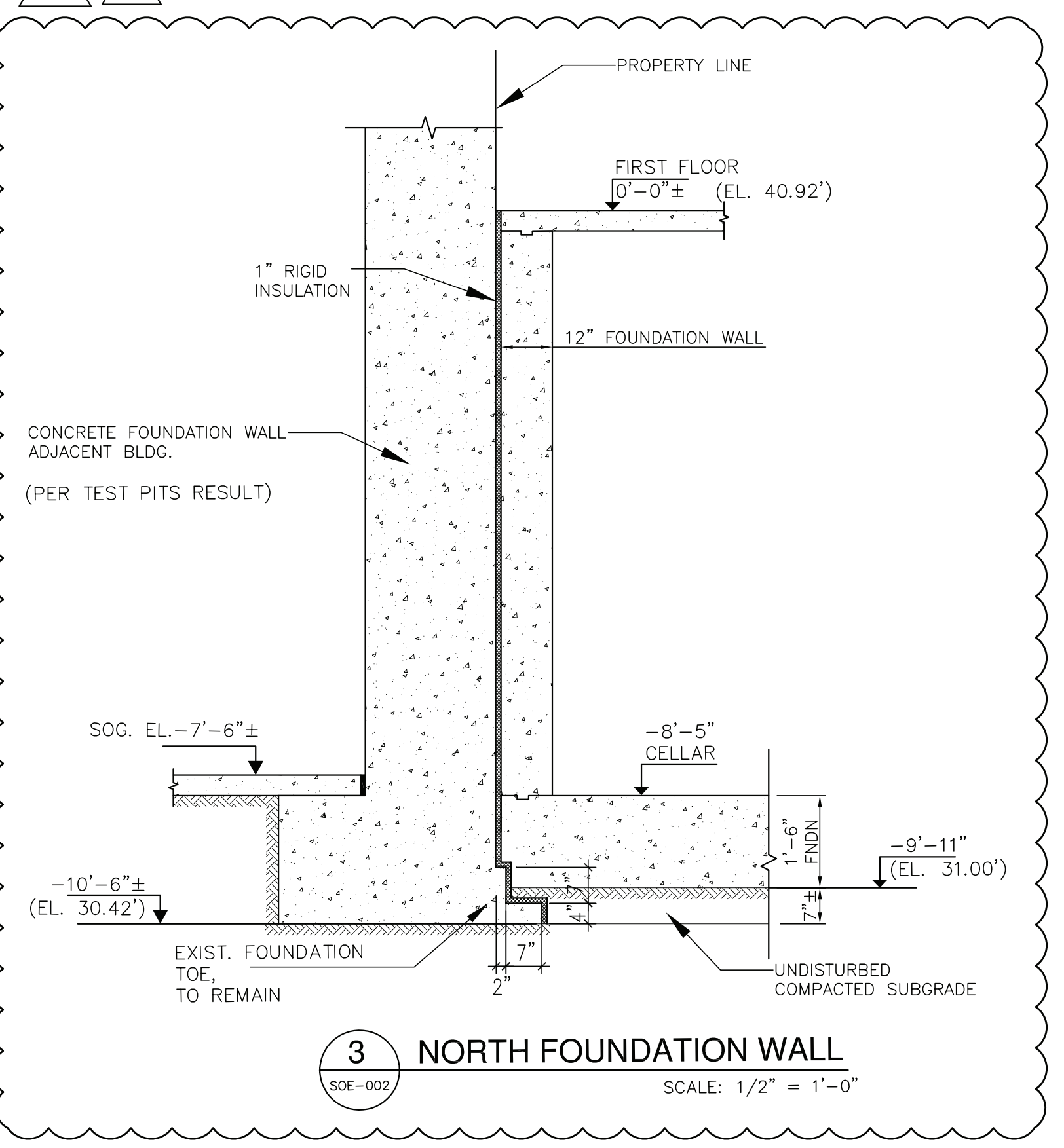
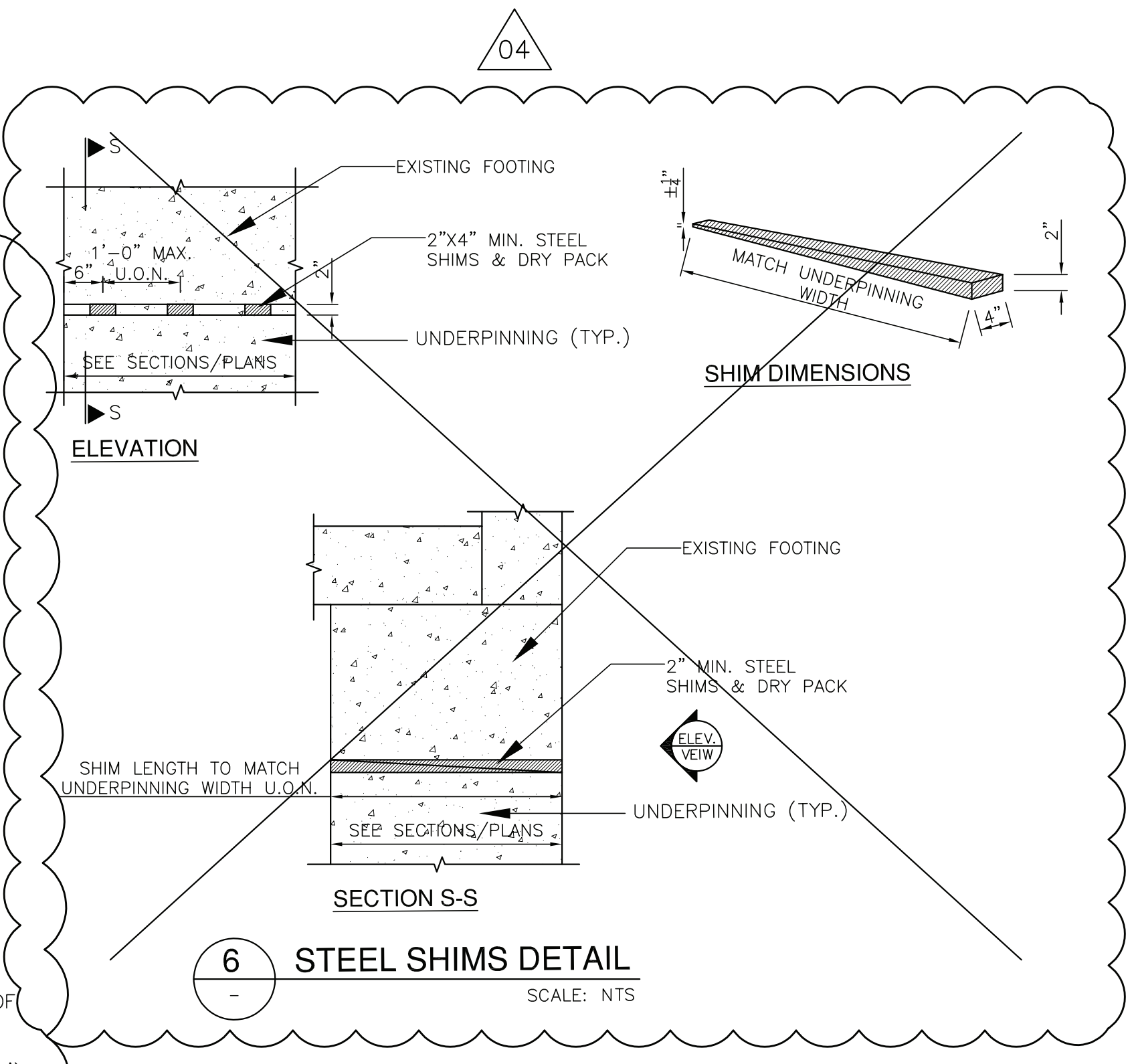
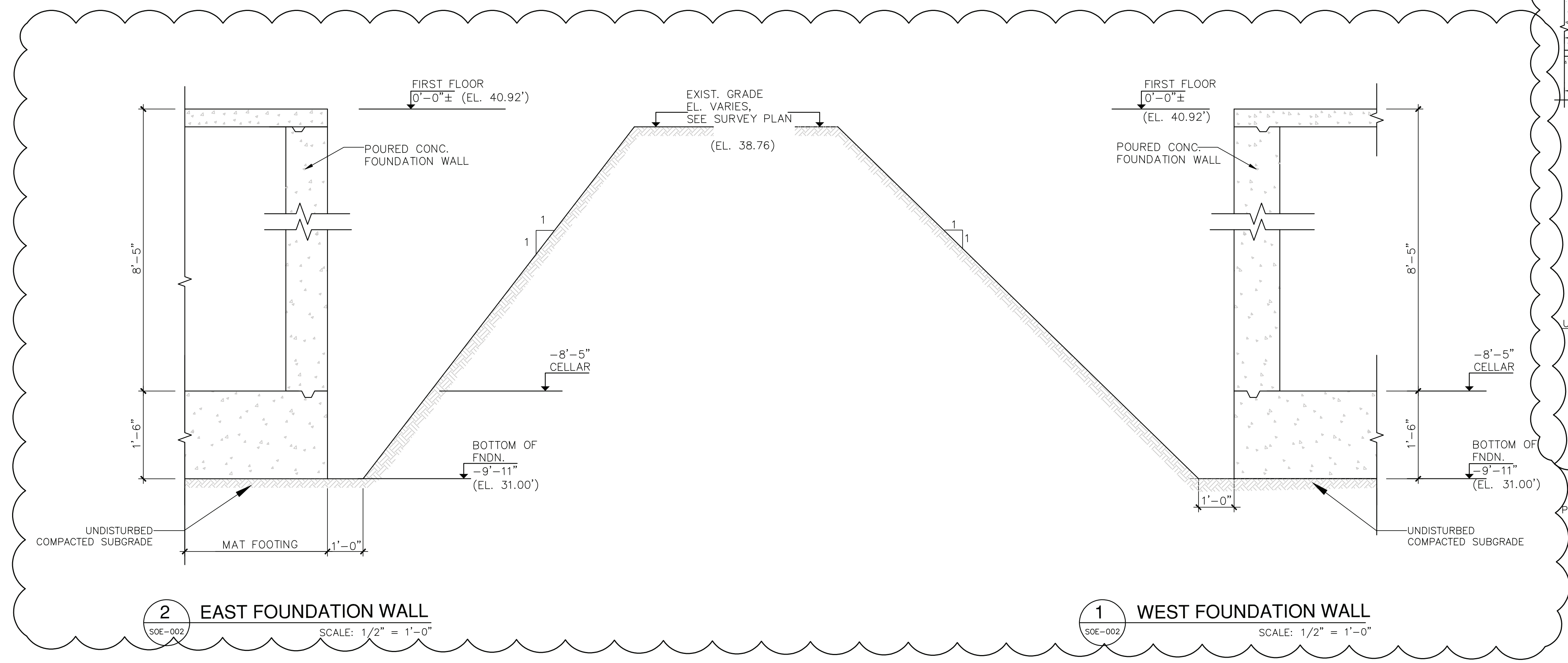
SECTIONS & DETAILS

DATE: 05-04-2018 PROJECT NO. 2017-20

DRAWN BY: AQEEL CHECKED BY: YT

DRAWING NO:
SOE-003.01

SHEET NO:



NOTE:
 FOR ELEVATIONS, SEE ARCHITECTURAL DRAWINGS.

CONSULTANT:
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ALTERNATE - 1

REVISIONS

NO.	DATE	DESCRIPTION

SEAL & SIGNATURE

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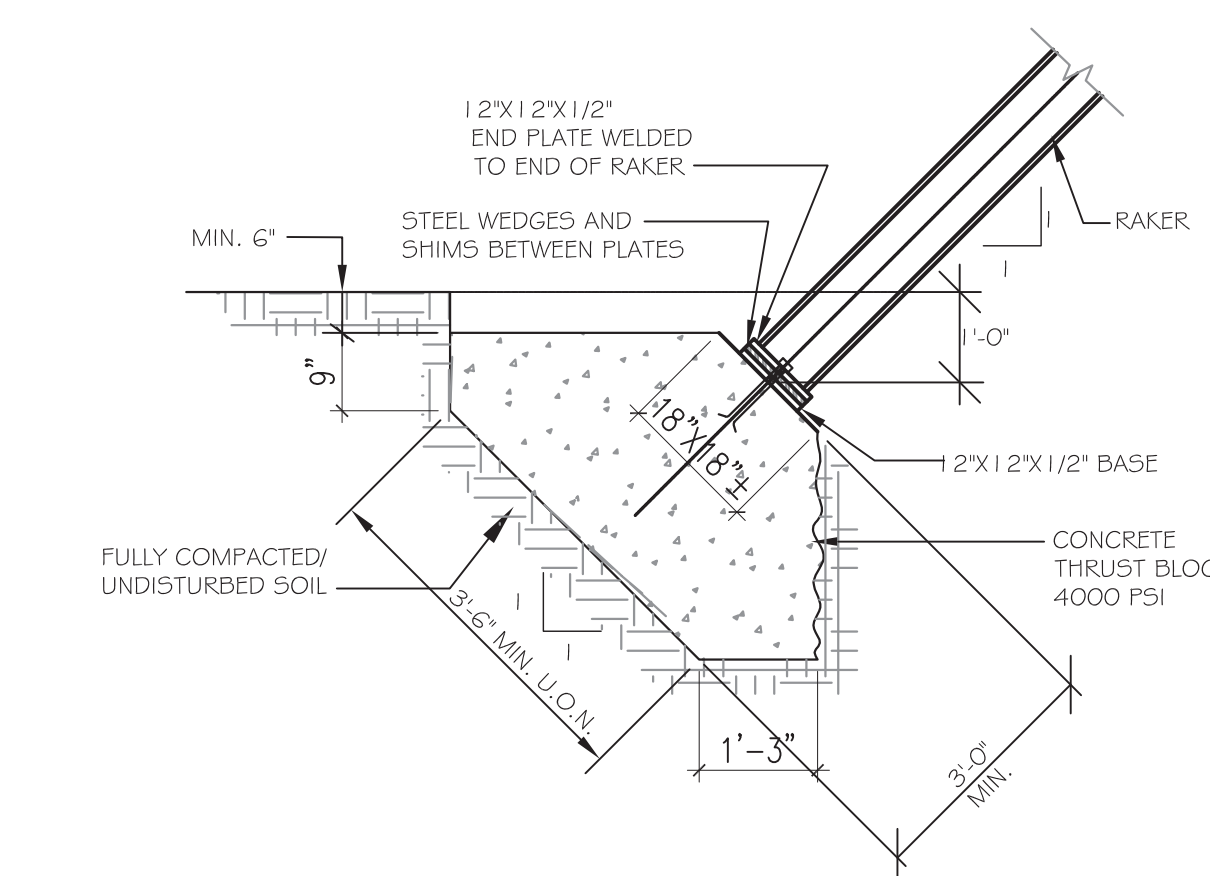
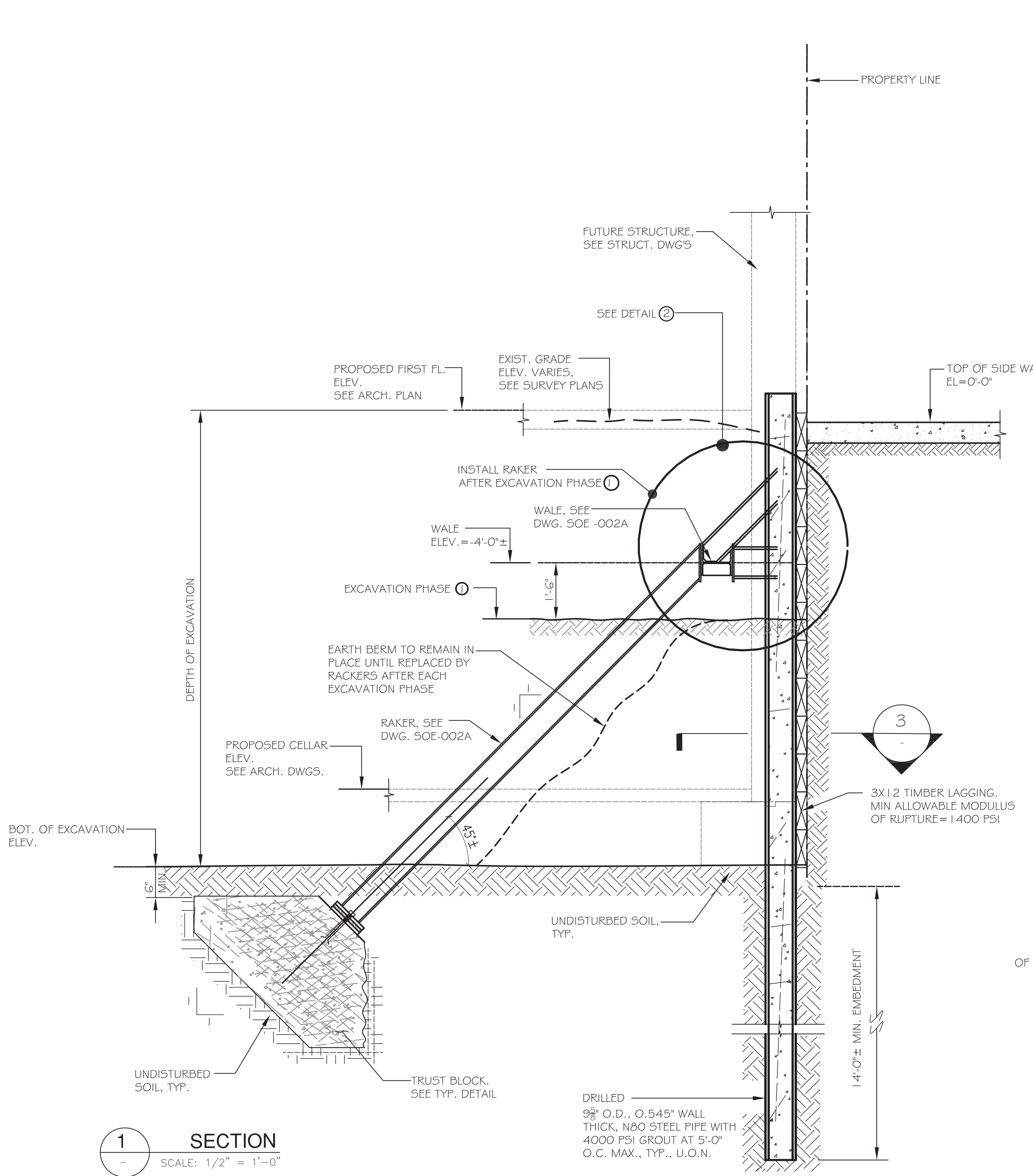
LOCATION:
**491 OCEAN PARKWAY
 BROOKLYN, NY 11218**

DRAWING TITLE:
SECTIONS & DETAILS

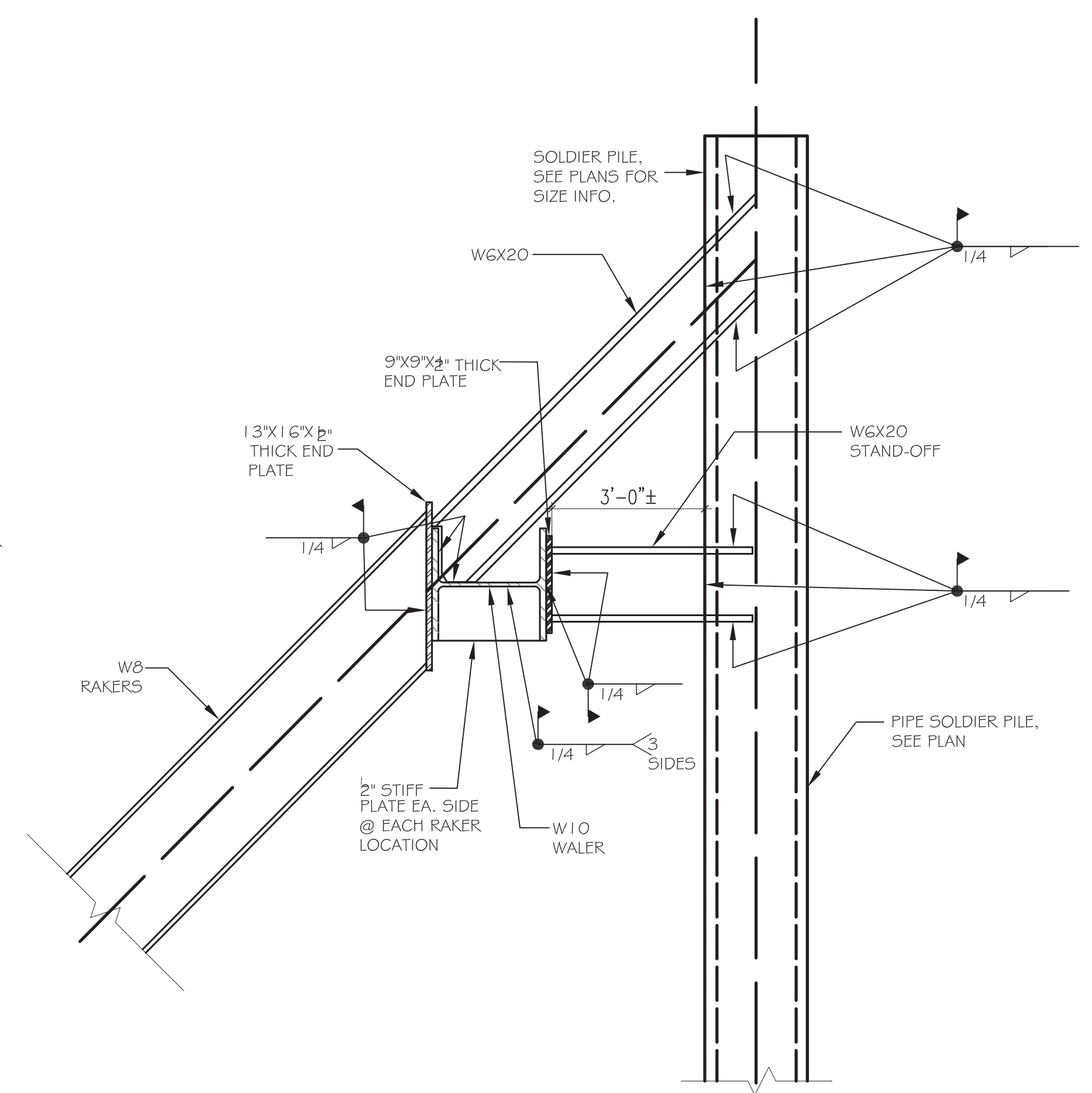
DATE: 05-04-2019 PROJECT NO. 2017-20
 DRAWN BY: AQEEL CHECKED BY: YT

DRAWING NO:
SOE-003A.00

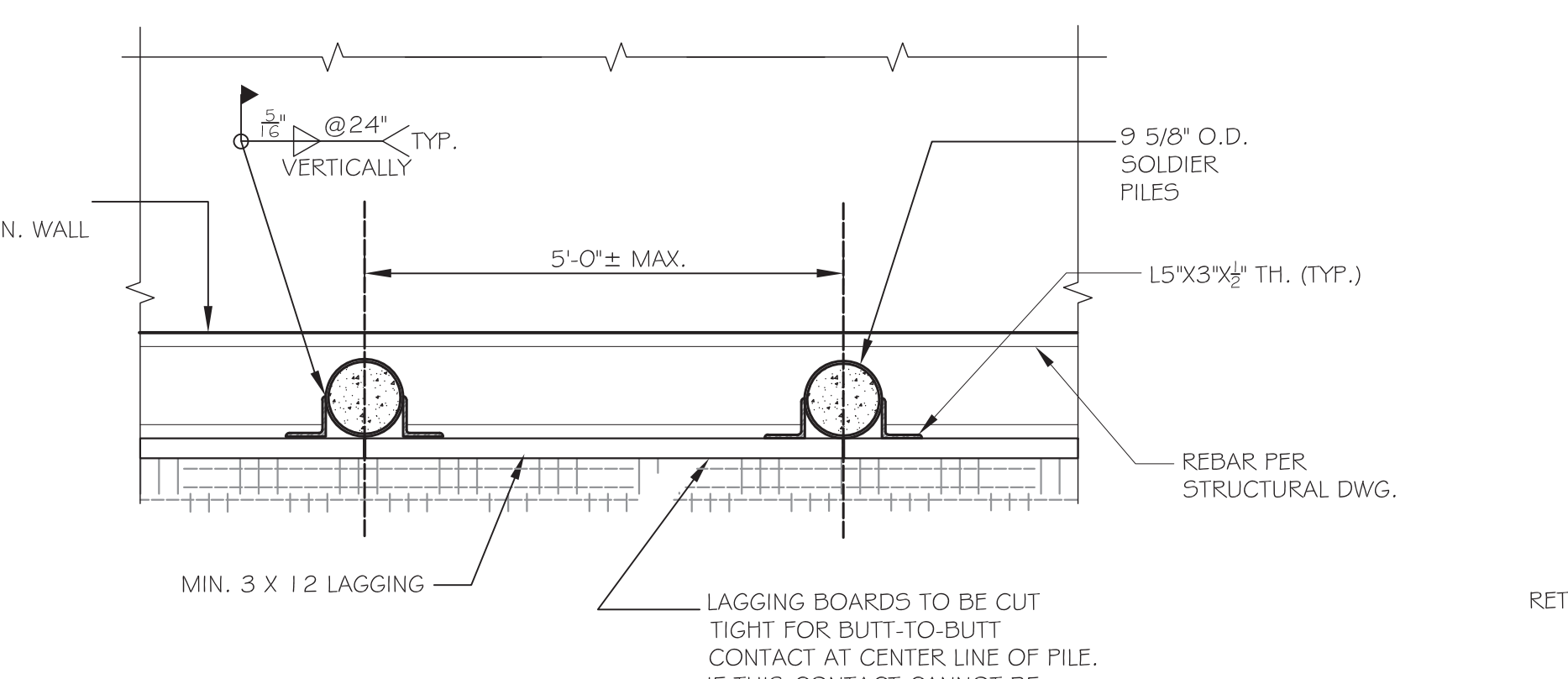
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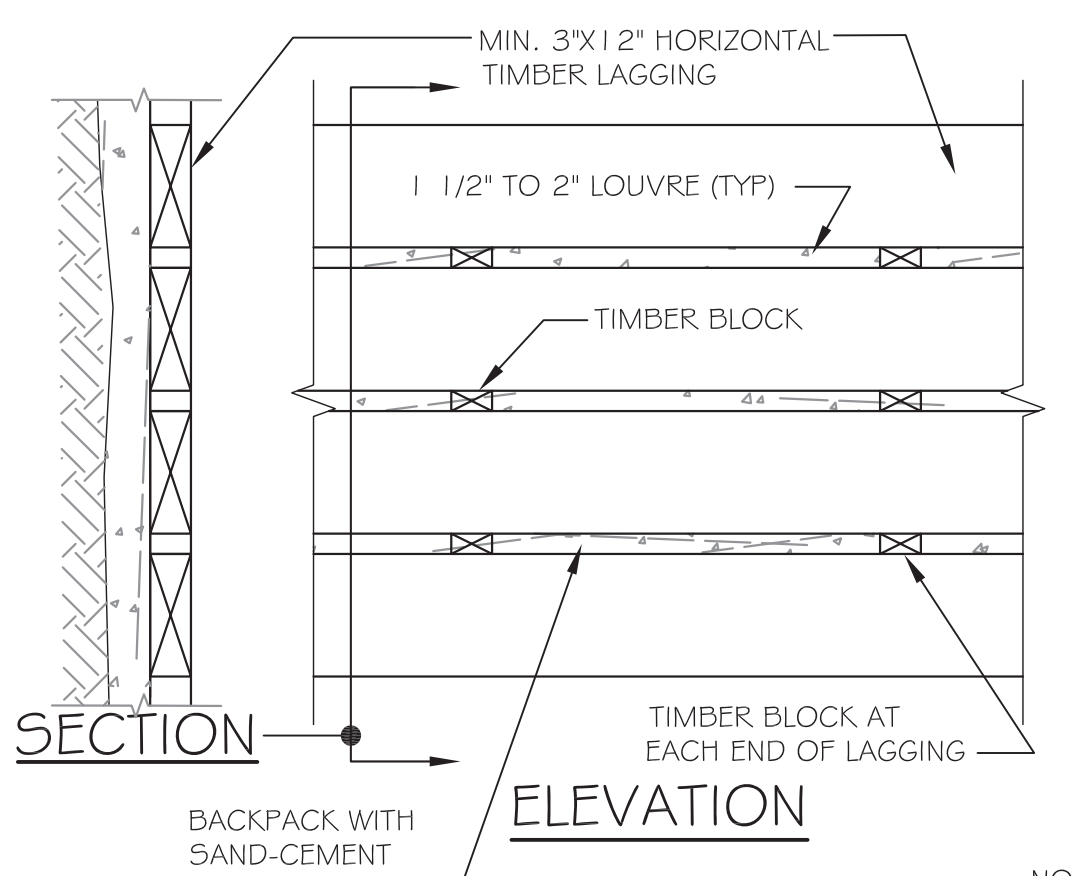
5 THRUST BLOCK TYPICAL DETAIL
 SCALE: 1/2" = 1'-0"



2 DETAIL CONNECTION AT RAKER
 SCALE: 1/2" = 1'-0"

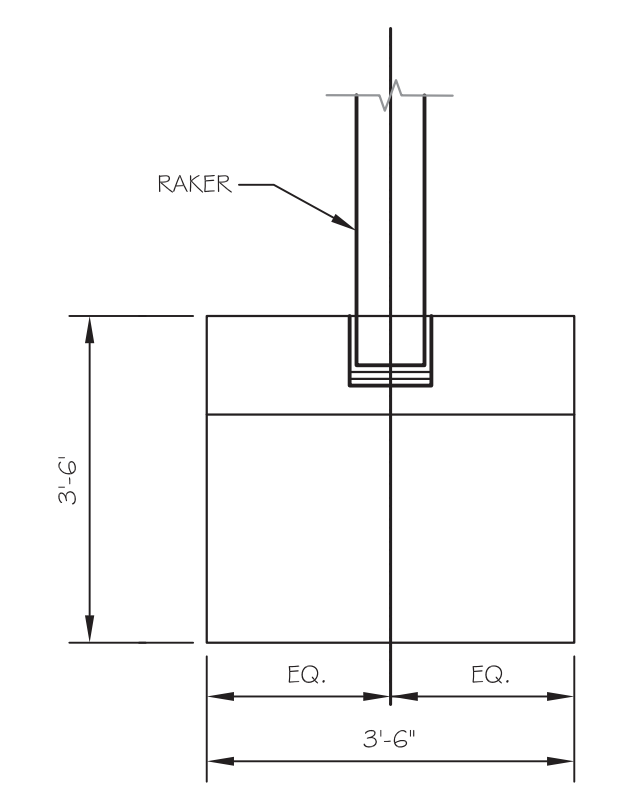


3 SECTION
 SCALE: 1/2" = 1'-0"



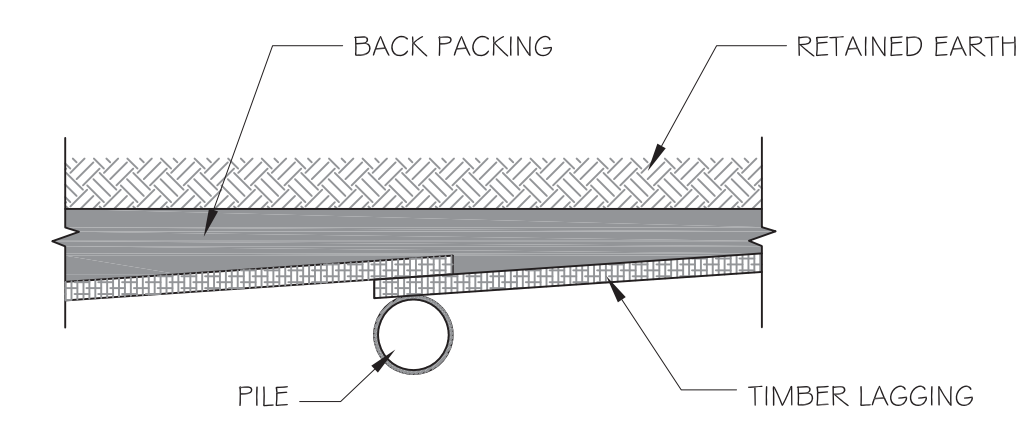
6 RECOMMENDED TYPICAL LAGGING DETAIL

NOTE:
 - ALL LAGGING TO BE DOUGLAS FIR DENSE SELECT STRUCTURAL GRADE.
 - ALL LAGGING TO BE NEW.
 - ALL INDICATED SIZES ARE FULL SIZES.
 - USE MIN. 3" THICK LAGGING.

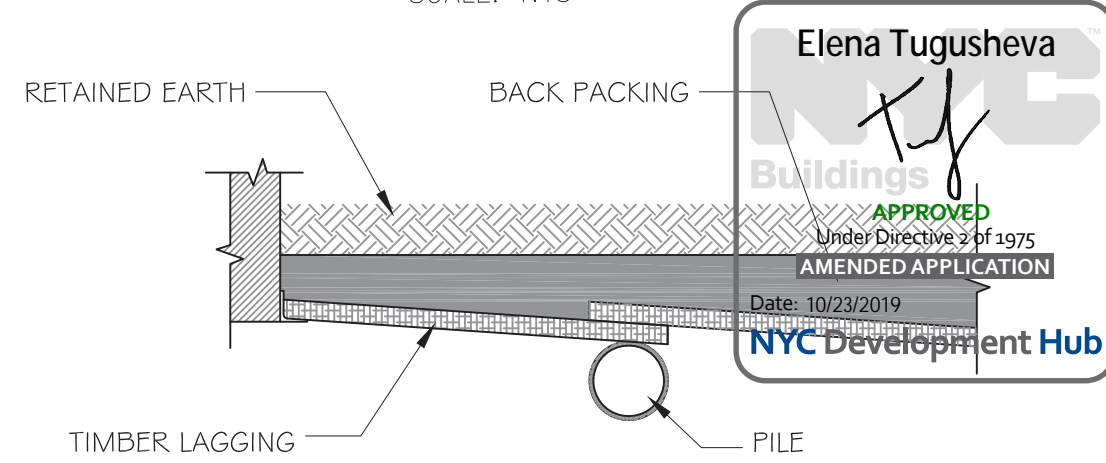


4 PLAN DETAIL OF 3'-6"X3'-6" THRUST BLOCK
 SCALE: NTS

- RECOMMENDED SHEETING/SHORING CONSTRUCTION SEQUENCE:
1. INVESTIGATE EXISTING UTILITIES. CONTRACTOR IS FULLY RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING UTILITY LOCATIONS.
 2. LAYOUT SHEET/SOLDIER PILE LOCATION.
 3. INSTALL SHEET/SOLDIER PILE TO REQUIRED DEPTH AS PER SECTIONS.
 4. AS SITE CONDITIONS ALLOW, BEGIN EXCAVATION WITHIN INTERIOR PORTIONS OF SITE, WITH PROPERLY SLOPED EARTH BERM TO REMAIN, AS SHOWN ON SECTIONS.
 5. INSTALL AND CONNECT WALERS, AND STRUTS AS SHOWN ON DETAILS, WHILE EARTH BERM IS STILL IN PLACE.
 6. COMMENCE EXCAVATING EARTH BERM FROM TOP.
 7. PROCEED WITH EXCAVATION UNTIL THE REQUIRED DEPTH IS REACHED AS INDICATED ON THE PLAN.
 8. SHEETINGS/SHORING NOT TO BE REMOVED UNTIL THE NEW GROUND FLOOR SLAB HAS BEEN INSTALLED AND THE NEW CONCRETE HAS REACHED THE DESIGN COMPRESSIVE STRENGTH.
 9. AT COMPLETION OF THE NEW STRUCTURE, BURN OFF SOLDIER PILES 1'-0" BELOW PROPOSED FINISH GRADE.
 10. INSTALL CONTROLLED BACKFILL IN ACCORDANCE WITH GEO TECH REPORT.



PLAN VIEW - PIPE PILE
 SCALE: NTS



5 ALTERNATE DETAIL (FOR LAGGING SUPPORT)

NOTE:
 FOR ELEVATIONS, SEE ARCHITECTURAL DRAWINGS.