

**DEVELOPER:**  
**EXTELL DEVELOPMENT COMPANY**  
805 Third Ave, 7th Floor  
New York, NY 10022  
TEL: 212-712-6000 FAX: 212-712-6100

**ARCHITECT OF RECORD:**  
**AAI ARCHITECTS, P.C.**  
14 Wall Street, 2nd Floor  
New York, NY 10005  
TEL: 212-964-4040 FAX: 212-964-4090

**INTERIOR DESIGNER:**  
**MEYER DAVIS**  
180 Varick St, suite 404  
New York, NY 10014  
TEL: 212-627-5574

**LANDSCAPE DESIGNER:**  
**WEST 8 URBAN DESIGN & LANDSCAPE ARCHITECTURE P.C.**  
333 Hudson Street, Suite 905  
New York, NY 10013  
TEL: 212-285-0088 FAX: 212-285-0228

**STRUCTURAL ENGINEERS:**  
**WSP**  
228 East 45th Street  
New York, NY 10017  
TEL: 212-687-8888 FAX: 646-487-5501

**MEP ENGINEERS:**  
**ICOR ASSOCIATES, LLC**  
485 C Route 1 South, Suite 209  
Iselene, NJ 08830  
TEL: 908-272-3300 FAX: 908-272-4440

**GEOTECHNICAL ENGINEERS:**  
**LANGAN ENGINEERING & ENVIRONMENTAL SERVICES**  
21 Penn Plaza - 360 West 31st Street, 8th Floor  
New York, NY 10001  
TEL: 212-479-5400 FAX: 212-479-5444

No.	DESCRIPTION:	DATE:
	ISSUED FOR FOUNDATION BID	07-25-14
	50% DD	08-01-14
	DESIGN DEVELOPMENT	10-07-14
	ISSUED FOR FOUNDATION BID	01-09-15
	ISSUED FOR FILING	07-28-15
	ADDENDUM #15	11-18-15
	ADDENDUM #16	02-04-16
	ASI #55	02-12-16
	ASI #56	02-19-16
	ASI #57	02-26-16
	ASI #58	03-04-16
	ISSUED FOR FILING	03-07-16
1	ASI #73	08-19-16

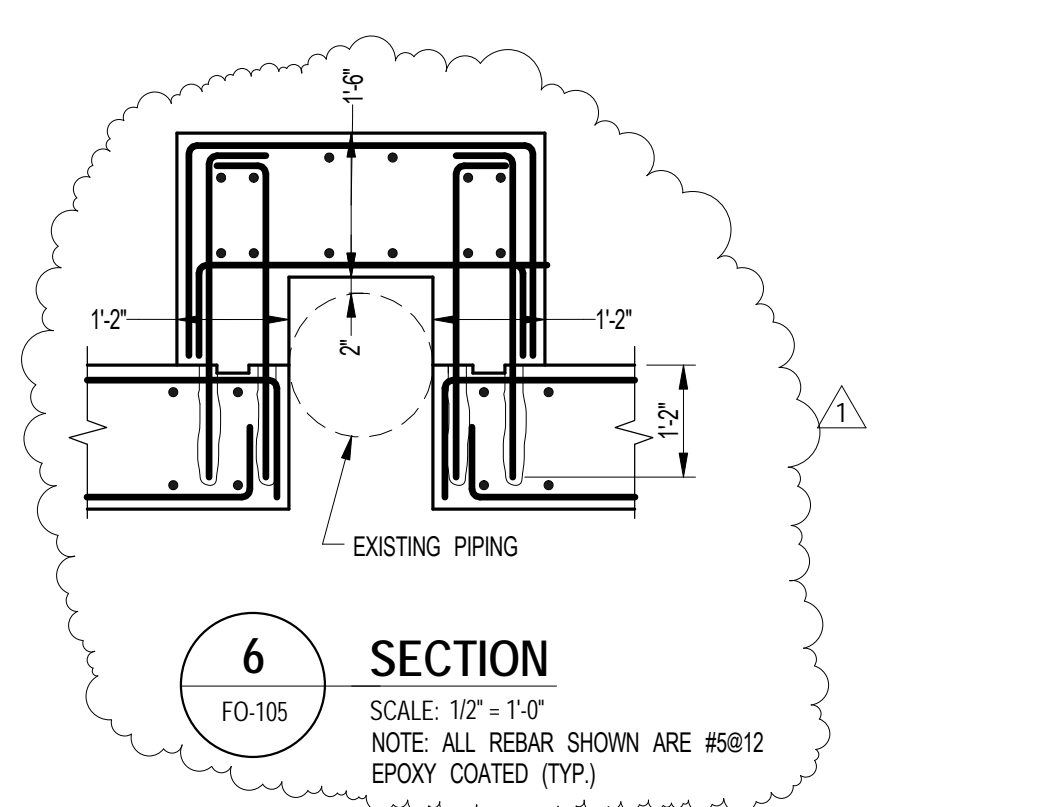
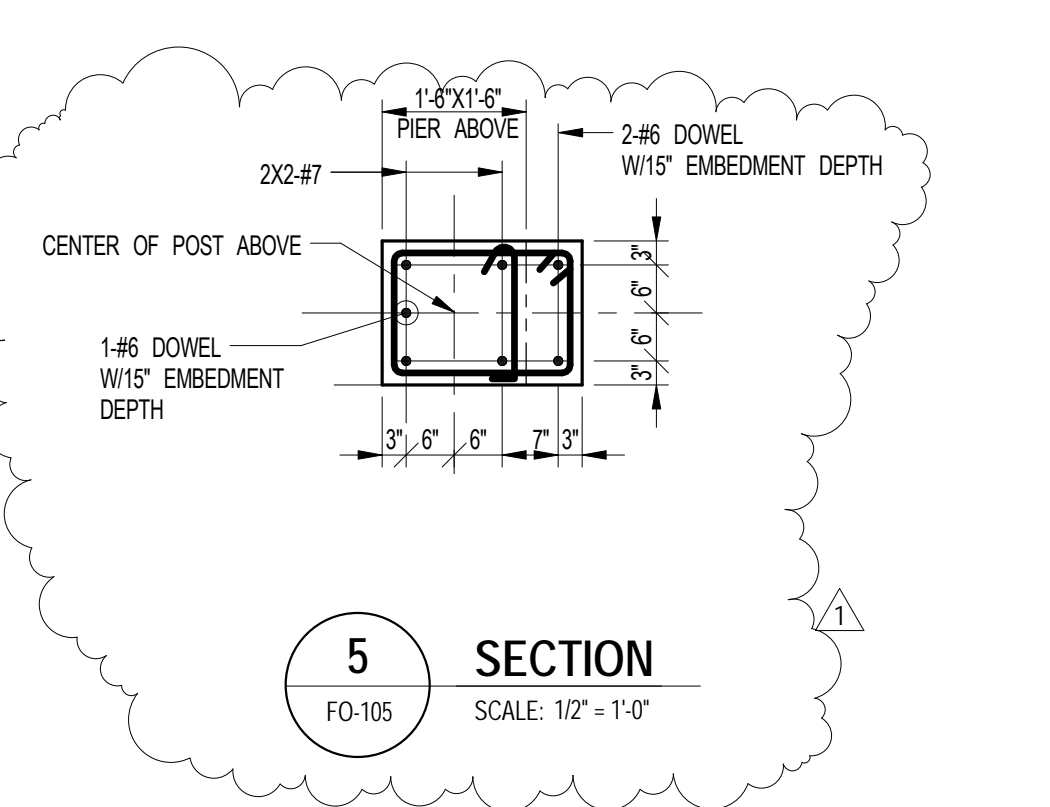
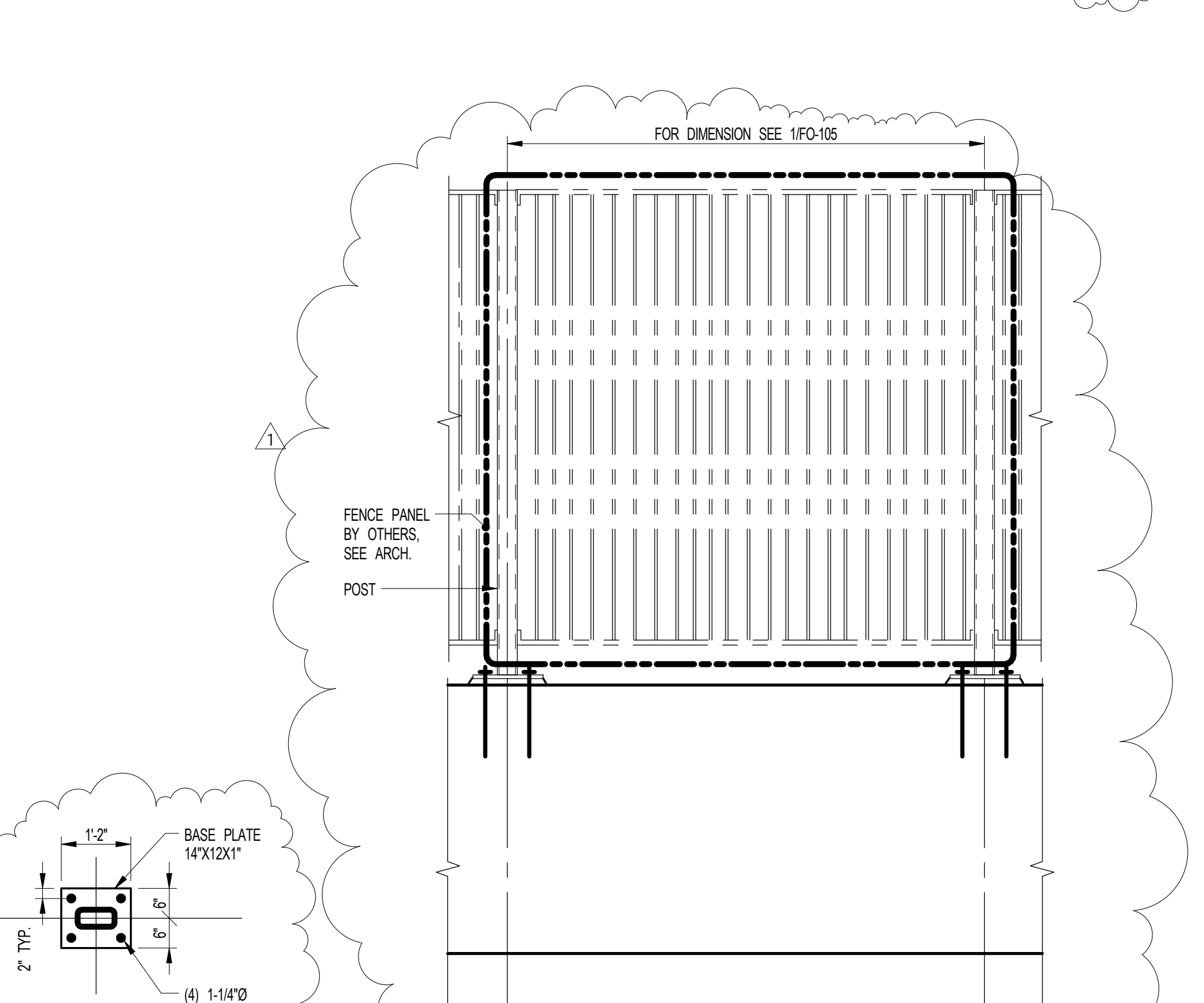
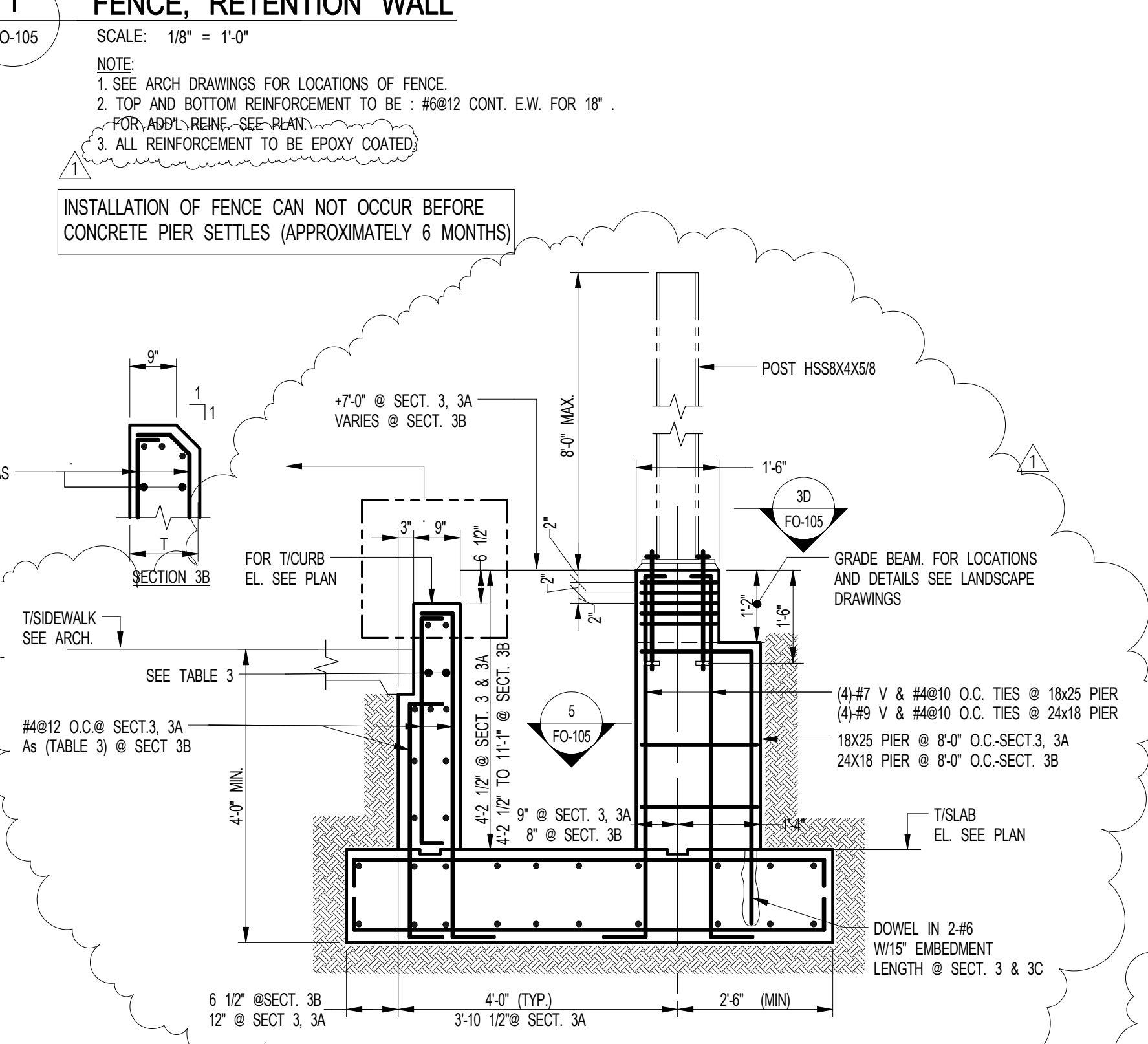
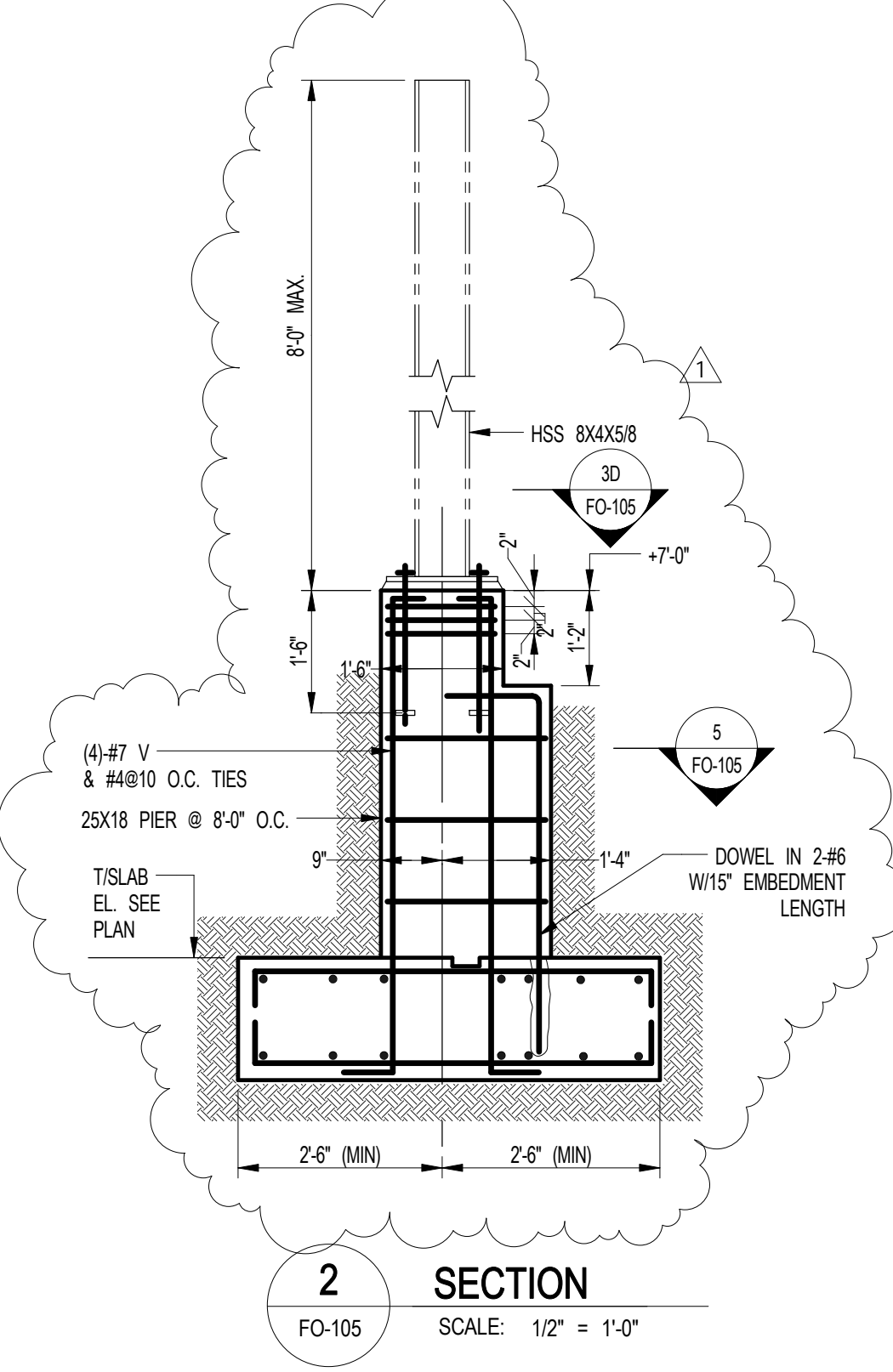


TABLE 3

HEIGHT H	THICKNESS T	REINF. As (E. F.)	REMARKS
UP TO 5'-6"	9"	#4816	#4810
6'-0" TO 7'-0"	12"	#4816	#5812
7'-0" TO 8'-0"	12"	#4816	#6812
8'-0" TO 9'-0"	16"	#4812	#6812
9'-0" TO 11'-0"	16"	#4812	#6810

Discrepancies must be reported immediately to the Architect before proceeding. Only figured dimensions are to be used. Contractors must check all dimensions on site. This drawing is protected by copyright.

ALL DIMENSIONS ARE SHOWN IN IMPERIAL.

CONSULTANT:  
**WSP**

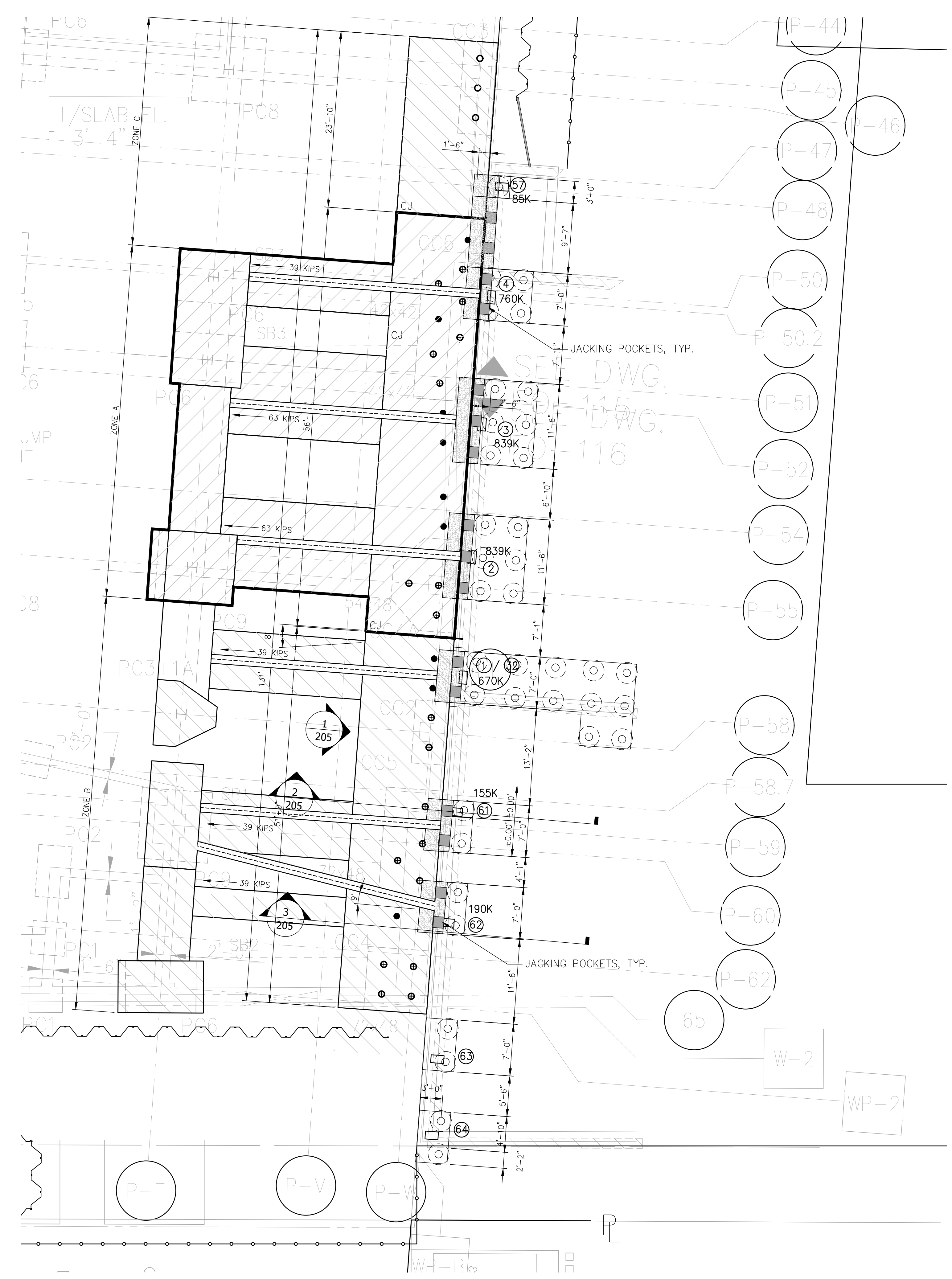
PROJECT:  
**252 SOUTH STREET**  
NEW YORK, NY

DRAWING TITLE:  
**FENCE FOUNDATION PLAN AND DETAILS**

SEAL & SIGNATURE: [Signature]  
DATE: 07/25/14  
PROJECT No: 1302510  
DRAWN: CAD REV: CL  
CHK: CL  
SCALE: As indicated  
DWG No: **FO-105.02**

DOB PAGE No: of  
DOB EMPLOYEE STAMP: [Stamp] DOB B-SCAN: [Stamp]

**Damian Titus**  
Build It Right  
APPROVED  
Under Directive 3 of 1975  
AMENDED APPLICATION  
Date: 09/23/2016  
NYC Development Hub



**SOE NOTES:**

- WHILE LEAVING SOIL BERMED AGAINST ADJACENT BUILDING EXPOSURE, LOCALLY EXCAVATE FOR BACKSPAN PILE CAPS WITHIN "ZONE A", OR BUILDING LINES P50.2, P51, AND P55, ALONG PT.
- INSTALL RAKERS BETWEEN NEW PILE CAPS AND ADJACENT PILE CAPS AT COLUMNS 2, 3 AND 4.
- PROCEED WITH REMAINDER OF EXCAVATION FOR BUILDING LINE PILE CAPS AND GRADE BEAMS WITHIN "ZONE A" AND CONSTRUCT NEW.
- REPEAT SAME SEQUENCE FOR "ZONE B"
- COMPLETE OUT NEW WORK IN "ZONE C"

RAKERS TO REMAIN INSTALLED UNTIL AFTER COMPLETION OF ALL JACKING/SHIMMING/GROUTING OPERATION.

- TIMBER SHORING BOXES TO BE USED FOR SECTIONAL EXCAVATION, NOT SHOWN FOR CLARITY.

- ALL JACKING TO BE PERFORMED UPON COMPLETION OF NEW BUILDING CAP/KNEE WALLS, GRADE BEAMS AND BACK SPAN CAPS. SEE DWGS. BY WSP FOR ALL CONCRETE REINFORCEMENT.
- CONCRETE SHALL OBTAIN 70% OF DESIGN STRENGTH PRIOR TO JACKING.

**LOADING SEQUENCE PROCEDURE:**

1. USING A 2-JACK OR 3-JACK (200 TONS CAPACITY CYLINDERS EACH) SET UP, "DAISY CHAIN" SO THAT ALL CYLINDERS ARE TO BE LOADED FROM SAME PUMP SIMULTANEOUSLY. (EACH COLUMN/CAP TO BE LOADED SEPARATELY)
2. OPTICAL MONITORING PROGRAM SHALL BE ACTIVE DURING JACKING OPERATION.
3. TOTAL LOAD TO BE DEFINED AS 100% OF COLUMN LOAD INDICATED OR "P"
4. LOADING SHALL BE INCREMENTAL AS DEFINED BELOW. DOUBLE OR TRIPLE PAIRING OF JACK SET IS TO BE LOADED AT EACH COLUMN/CAP LOCATION INDIVIDUALLY. ONCE JACKING LOAD ACHIEVED AT EACH INCREMENT, DRIVE STEEL SHIMS TO HOLD/TRANSFER. REMOVE JACK SET AND MOVE TO THE NEXT COLUMN/CAP.
5. REPEAT INCREMENT LOAD AT COLUMN/CAP LOCATIONS AND SHIMMING. ALL COLUMN/CAP LOADING SHALL BE AT SAME INCREMENT STEP BEFORE PROCEEDING TO NEXT INCREMENT LOADING.
6. LOAD INCREMENT SHALL BE AS FOLLOWS:

- COLUMN 2- 0.33 P= 276.9 KIPS (138.4 TONS)
- COLUMN 1/32- 0.33P= 221.1 KIPS (110.6 TONS)
- COLUMN 3- 0.33P= 276.9 KIPS (138.4 TONS)
- COLUMN 4- 0.33P= 250.8 KIPS (125.4 TONS)
- COLUMN 61- 0.33P= 51.2 KIPS (25.6 TONS)
- COLUMN 62- 0.33P= 62.79 KIPS (31.4 TONS)

- COLUMN 2- 0.66P= 553.8 KIPS (276.8 TONS)
- COLUMN 1/32- 0.66P= 442.2 KIPS (221.2 TONS)
- COLUMN 3- 0.66P= 553.8 KIPS (276.8 TONS)
- COLUMN 4- 0.66P= 501.6 KIPS (250.8 TONS)
- COLUMN 61- 0.66P= 51.2 KIPS (25.6 TONS)
- COLUMN 62- 0.66P= 125.6 KIPS (62.8 TONS)

- COLUMN 2- 1.00P= 839 KIPS (419.4 TONS)
- COLUMN 1/32- 1.00P= 670 KIPS (335 TONS)
- COLUMN 3- 1.00P= 839 KIPS (419.4 TONS)
- COLUMN 4- 1.00P= 760 KIPS (380 TONS)
- COLUMN 61- 1.00P= 155 (72.5 TONS)
- COLUMN 62- 1.00P= 190 KIPS (80 TONS)

7. LOADING INCREMENTS MAY BE HALTED OR ADJUSTED BASED ON OBSERVED CONDITIONS IN FIELD.
8. UPON COMPLETION OF JACKING/SHIMMING OPERATION, CLOSE OUT JACK POCKETS AND VOID GAPS AROUND SHIMS W/ 8 KSI GROUT (NON SHRINK/EXPANSIVE MIX, USE SIKKA INTRAPLAST OR SIMILAR)

**LEGEND:**

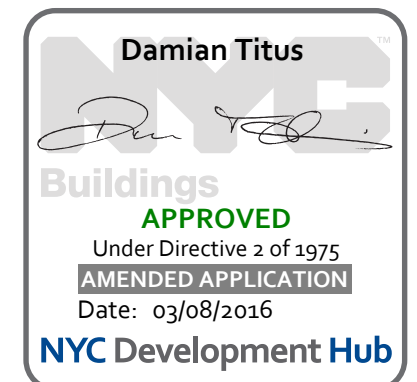
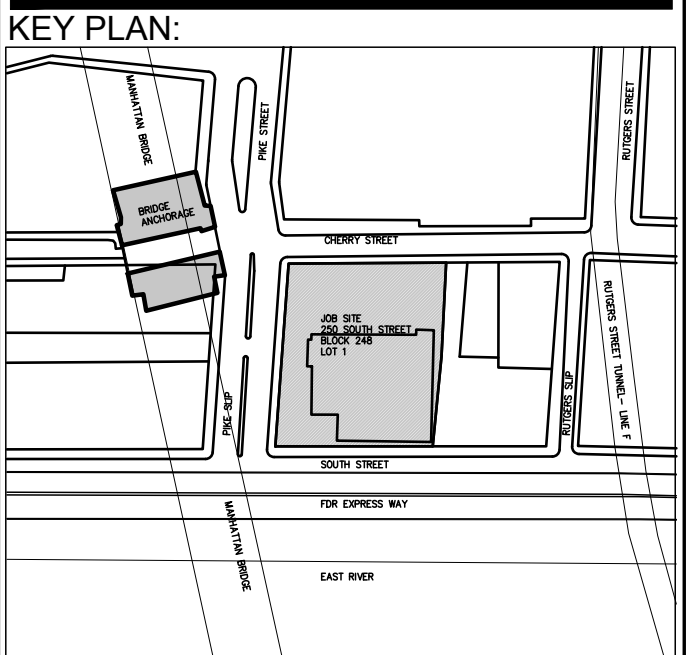
- NEW 400 TON CAISSON
- ⊕ EXISTING 200 TON CAISSON

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

**227 CHERRY ST.-250 SOUTH ST.**  
 NEW YORK, NY, 10018

12	DOB FILING	03-08-16
11	MBPD TO NAVD88 CONV.	01-13-15
10	D.O.B. RESUBMISSION	12-09-14
9	DESIGN REVISIONS	11-21-14
8	DESIGN REVISIONS	11-03-14
7	DESIGN REVISIONS	10-24-14
6	DESIGN REVISIONS	09-23-14
5	D.O.B. COMMENTS	08-04-14
4	T.A. COMMENTS	07-16-14
3	DESIGN UPDATE	07-09-14
No:	Revision:	Date:

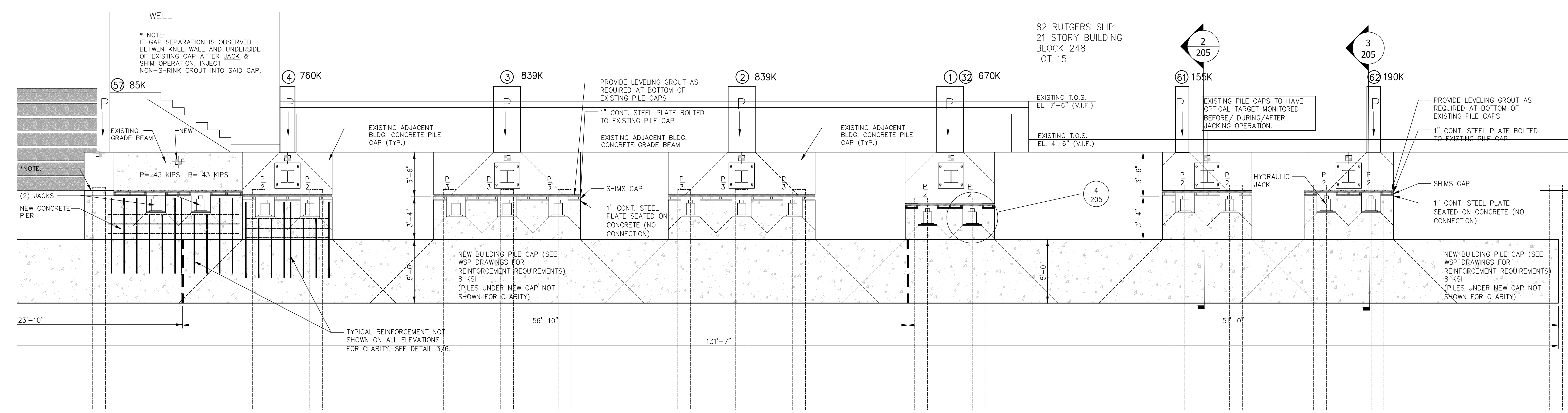
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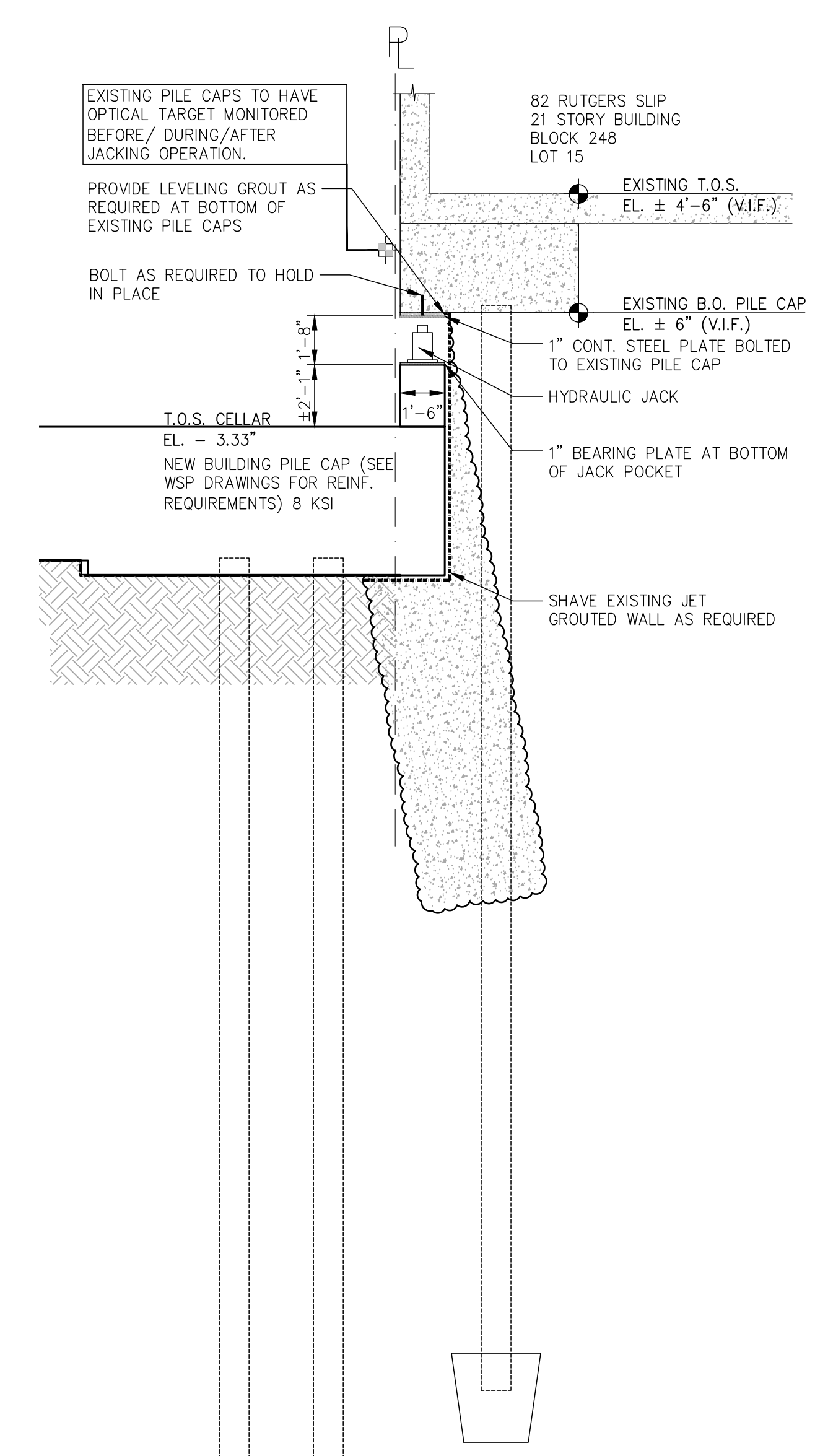
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SEAL	Date	11-08-13
PROJECT No:	13046	
Drawn By:	GD	
DWG. No:	SOE-101.00	
	4 OF 11	

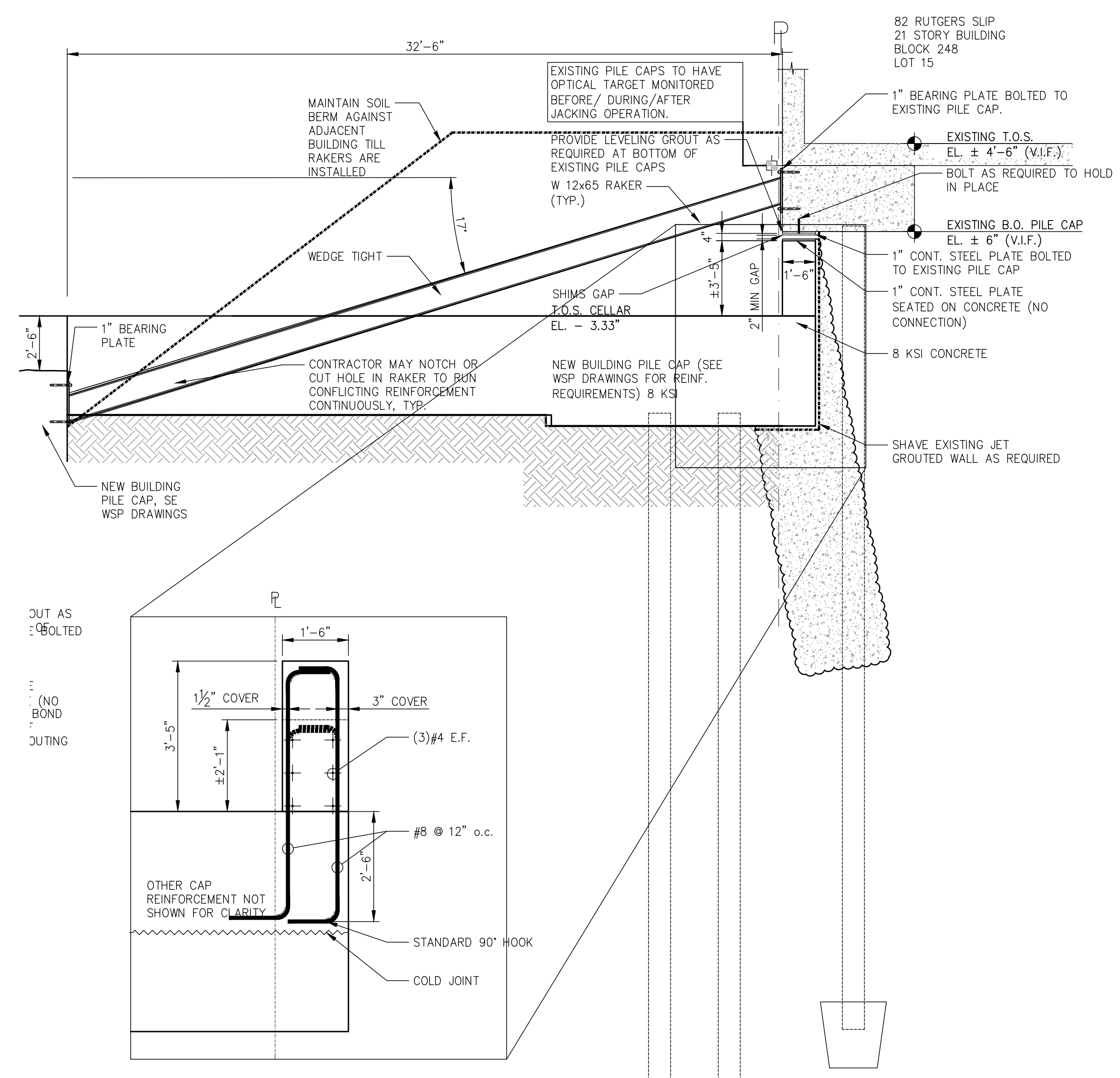
NEW SHEET



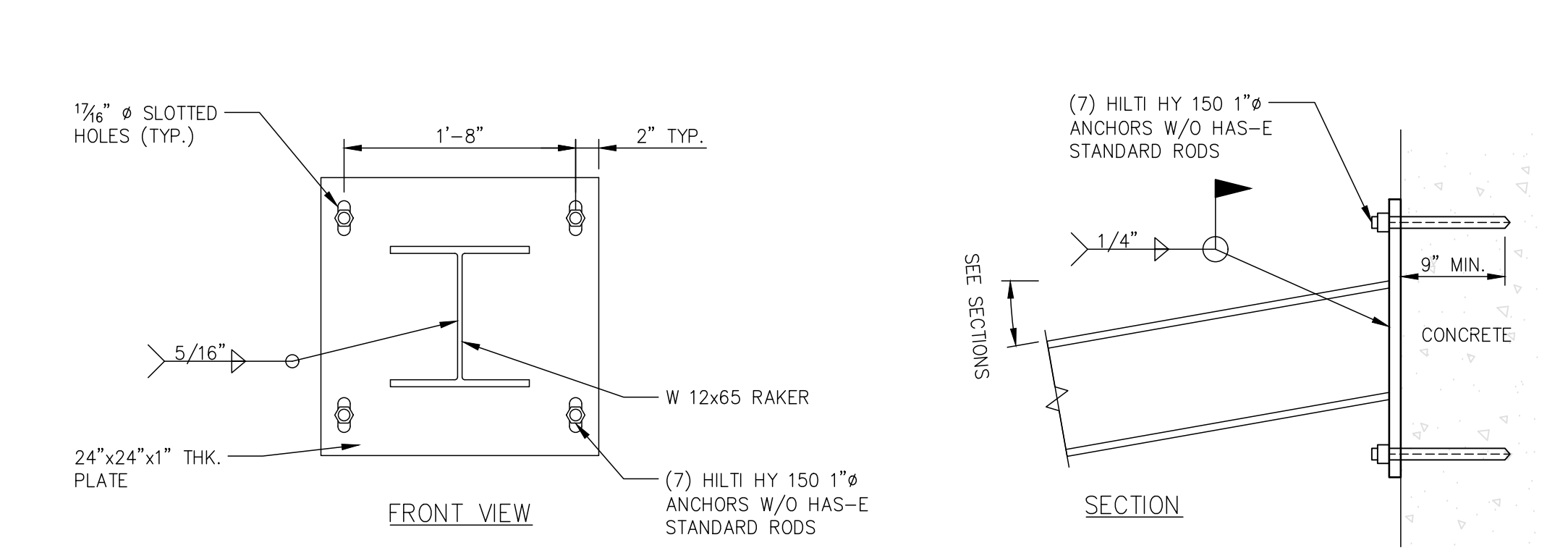
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**205** ELEVATION  
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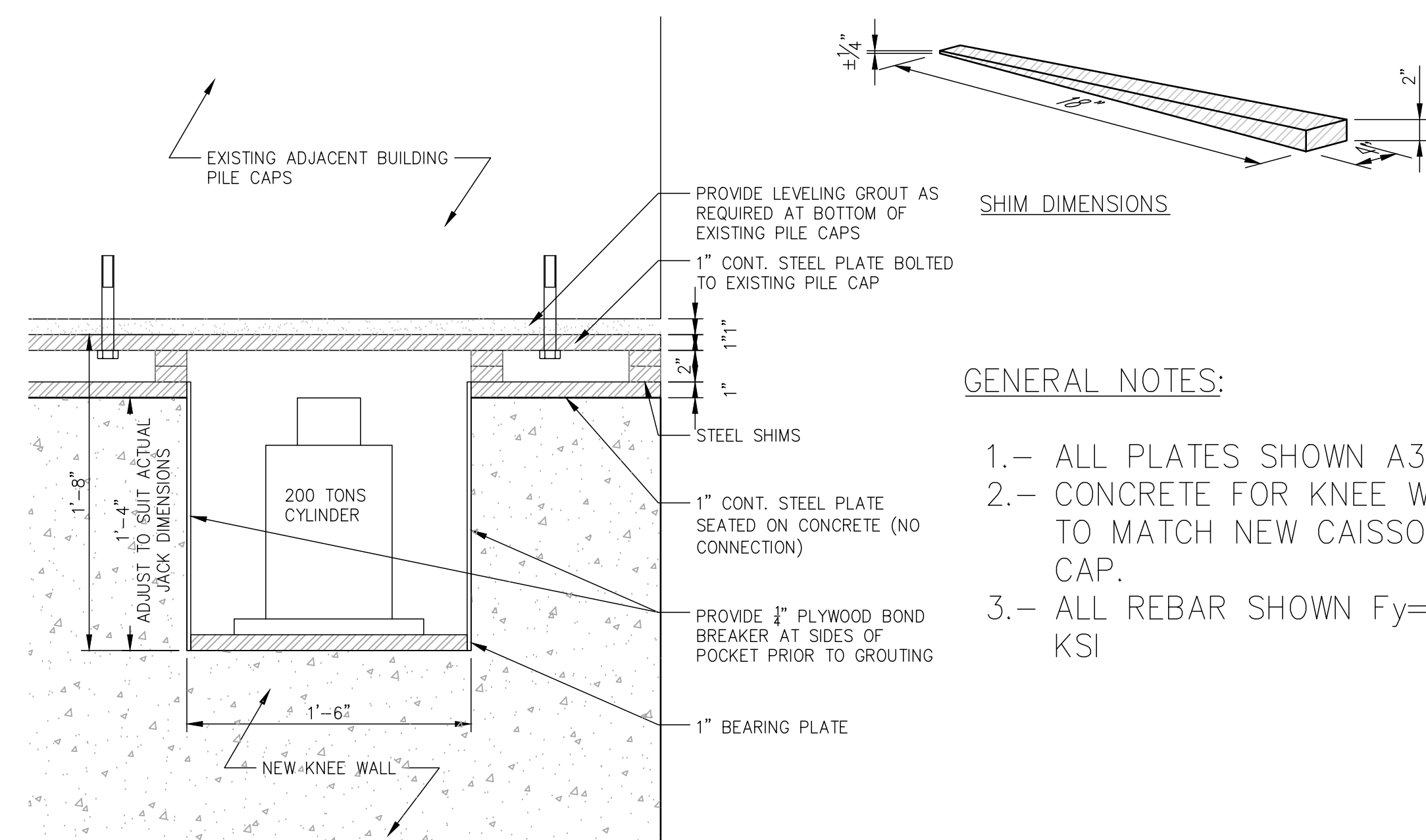
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**205** SECTION  
SCALE: 1/4"=1'-0"



**3**  
**205** SECTION  
SCALE: 1/4"=1'-0"



**5**  
**205** HEEL PLATE  
SCALE: 1-1/2"=1'-0"

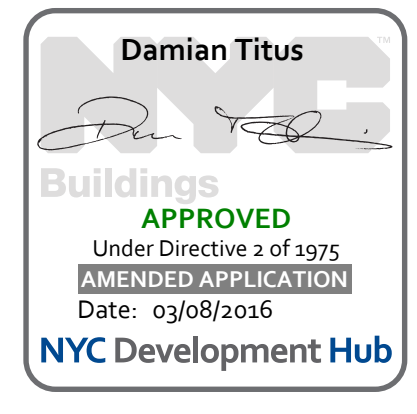
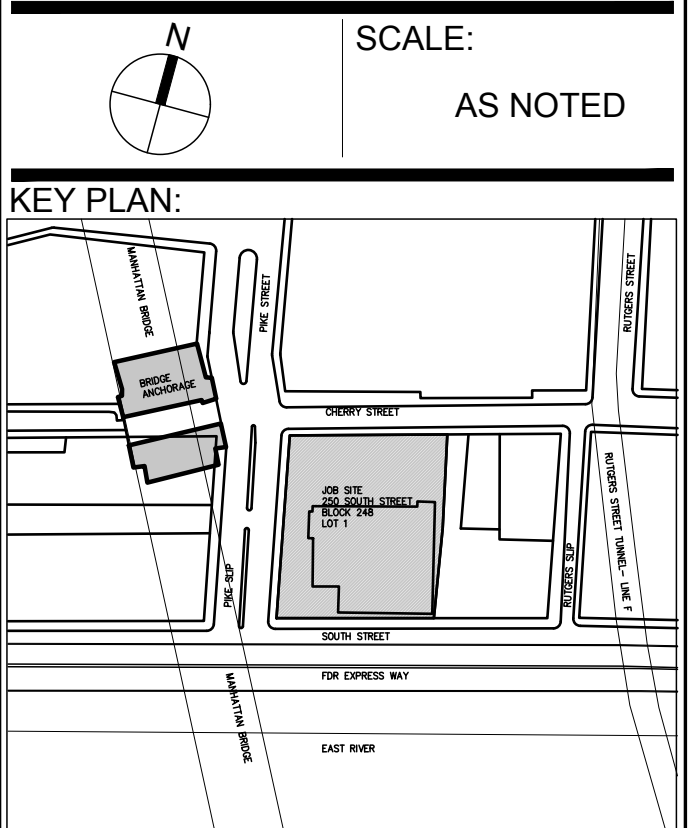


**4**  
**205** DETAIL  
SCALE: 1-1/2"=1'-0"

- GENERAL NOTES:**
- 1.- ALL PLATES SHOWN A36
  - 2.- CONCRETE FOR KNEE WALL TO MATCH NEW CAISSON CAP.
  - 3.- ALL REBAR SHOWN Fy= 60 KSI

227 CHERRY ST.-250 SOUTH ST.  
NEW YORK, NY, 10018

12	DOB FILING	03-08-16
11	MBPD TO NAVD88 CONV.	01-13-15
10	D.O.B. RESUBMISSION	12-09-14
9	DESIGN REVISIONS	11-21-14
8	DESIGN REVISIONS	11-03-14
7	DESIGN REVISIONS	10-24-14
6	DESIGN REVISIONS	09-23-14
5	D.O.B. COMMENTS	08-04-14
4	T.A. COMMENTS	07-16-14
3	DESIGN UPDATE	07-09-14
No: Revision:		Date:



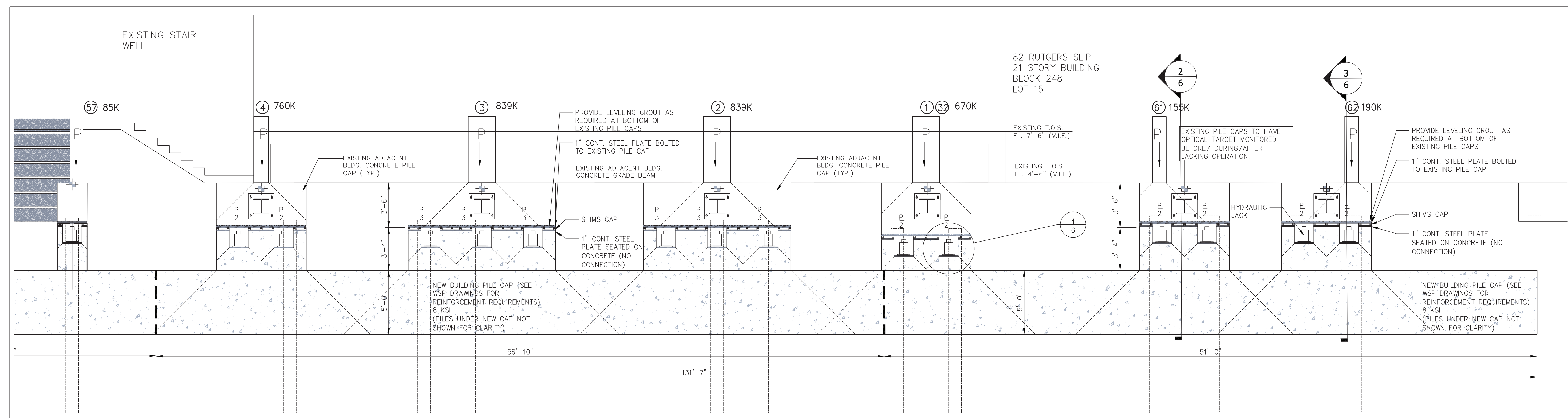
DRAWING TITLE:  
SUPPLEMENTARY SUPPORT OF  
ADJACENT BUILDING  
ADJOINING PILE CAPS

SEAL	Date
PROJECT No:	11-08-13
Drawn By:	13046
DWG. No:	GD
SOE-205.00	
10 OF 11	

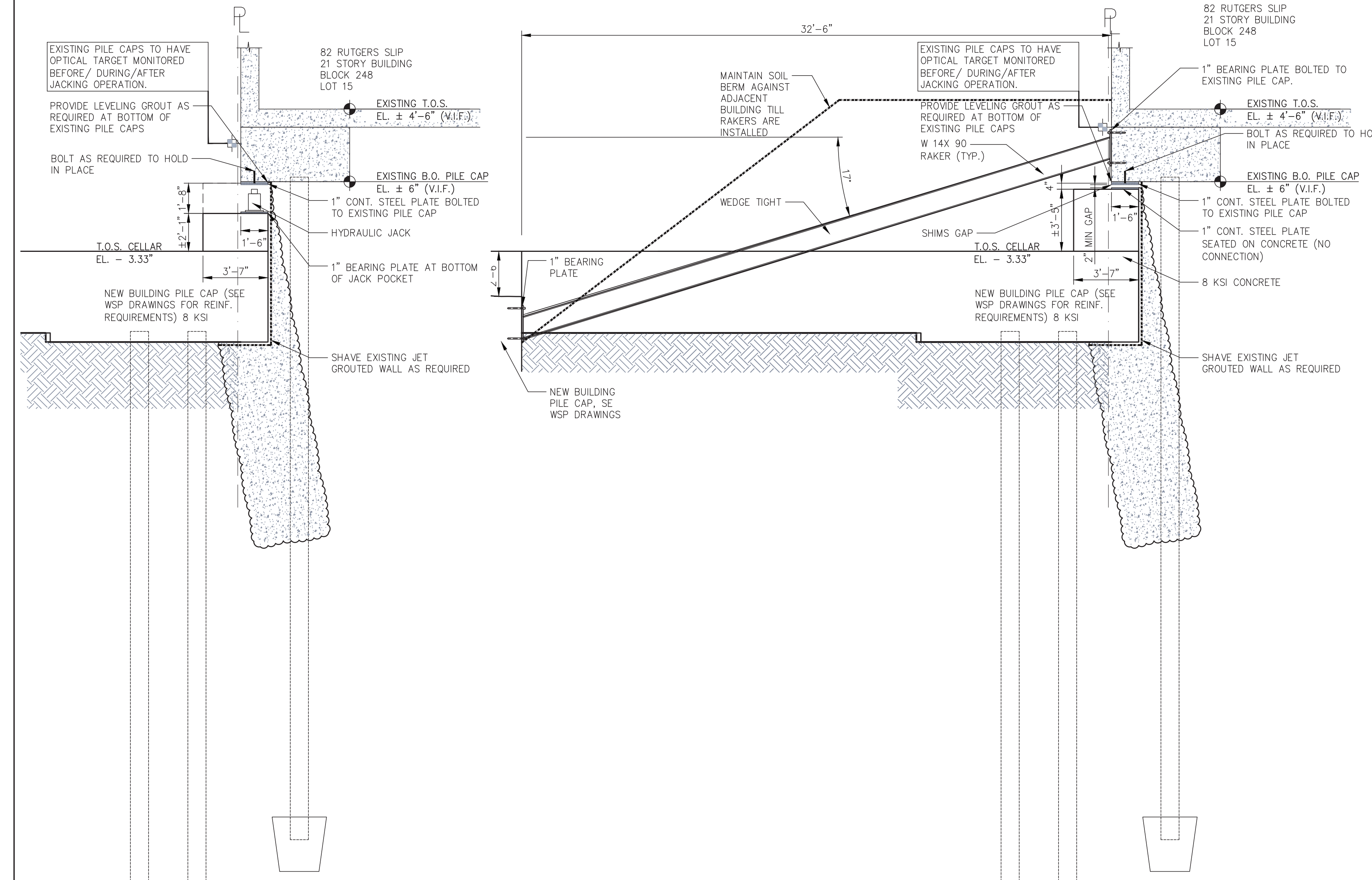


**FNA**  
 associates, inc.  
 CONSULTING ENGINEERS  
 670 BERGEN BOULEVARD  
 RIDGEFIELD, NJ. 07657  
 O: 201-241-2444

**227 CHERRY ST.-250 SOUTH ST.**  
 NEW YORK, NY, 10018



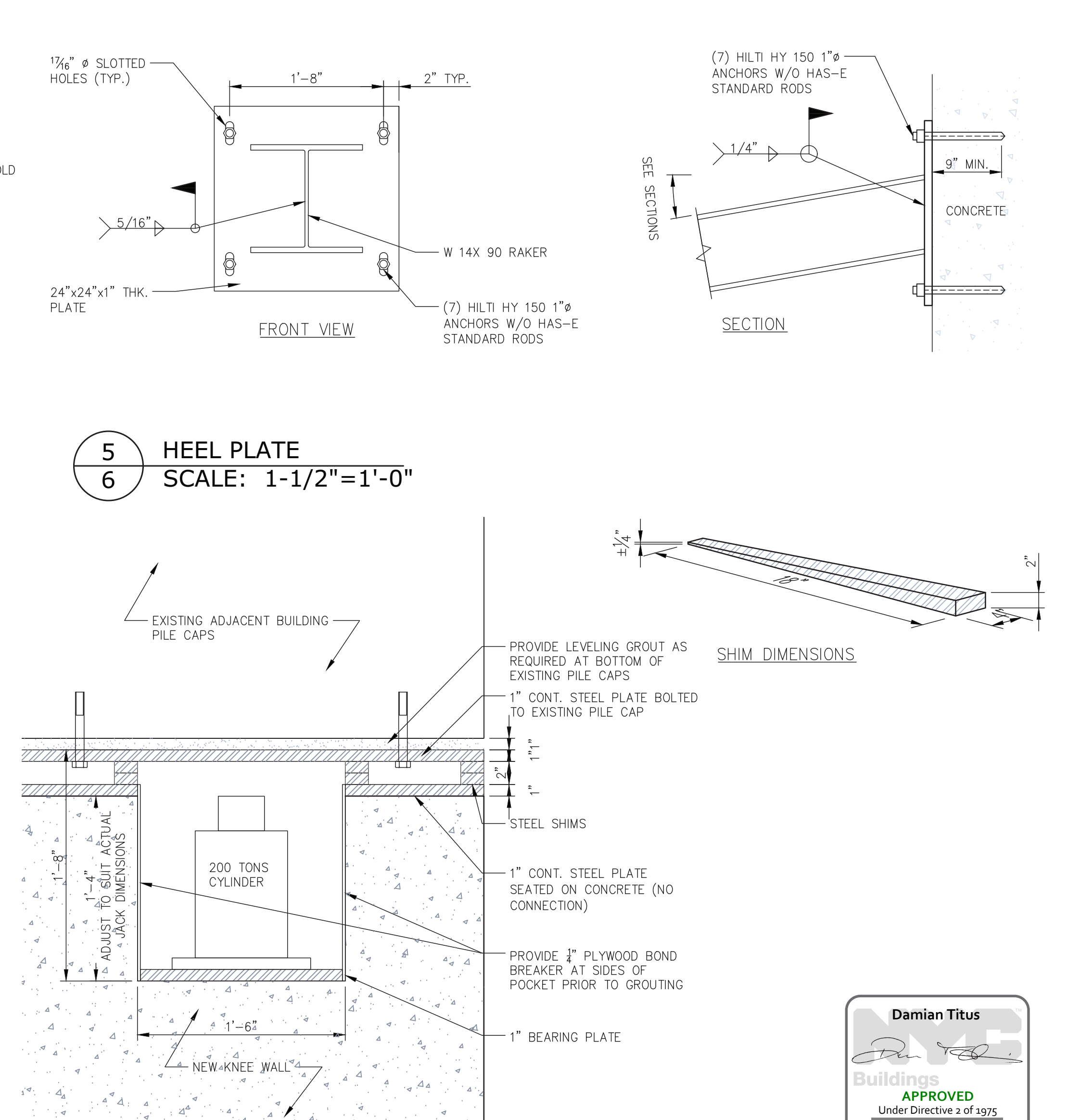
**1** ELEVATION  
**6** SCALE: 1/4"=1'-0"



**2** SECTION  
**6** SCALE: 1/4"=1'-0"

**3** SECTION  
**6** SCALE: 1/4"=1'-0"

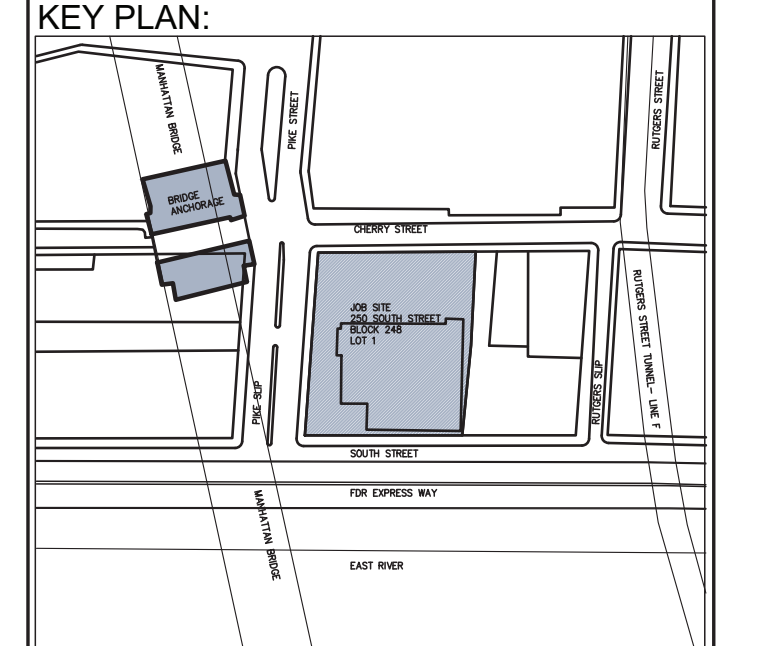
**4** DETAIL  
**6** SCALE: 1-1/2"=1'-0"



**5** HEEL PLATE  
**6** SCALE: 1-1/2"=1'-0"

4	ENG. COMMENTS	07-28-15
3	ENG. COMMENTS	07-21-15
2	ENG. COMMENTS	07-16-15
1	FOR REVIEW	07-06-15

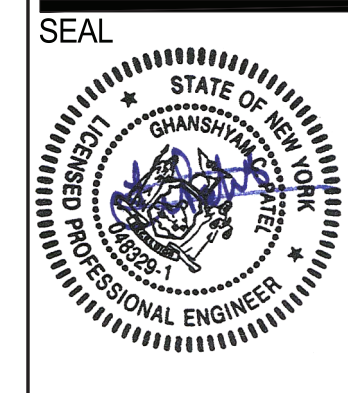
No: Revision: Date:  
 SCALE: AS NOTED

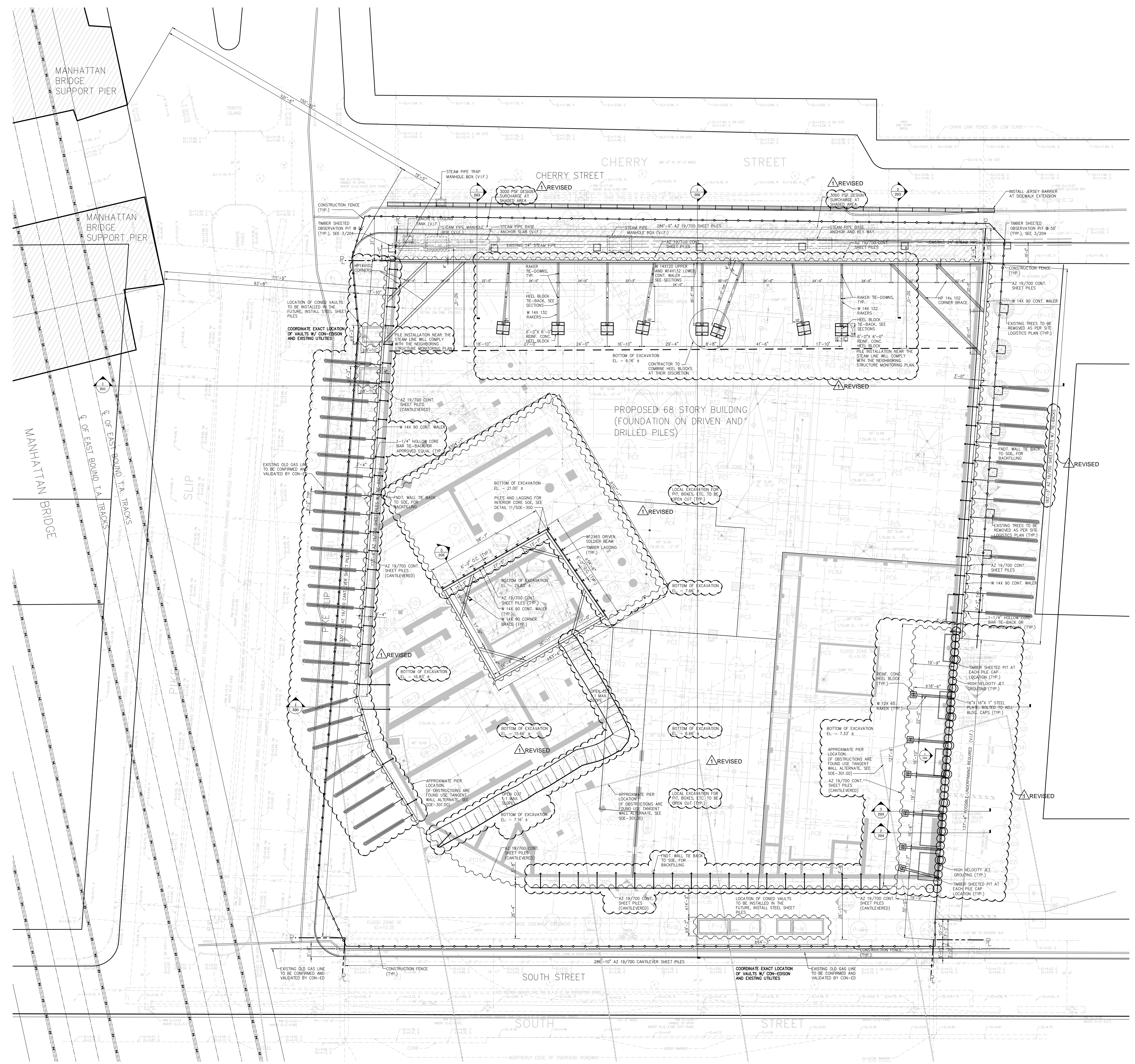


DRAWING TITLE:  
 SUPPLEMENTARY SUPPORT OF  
 ADJACENT BUILDING  
 ADJOINING PILE CAPS

SEAL Date 07-06-15  
 PROJECT No: 13046  
 Drawn By: GD  
 DWG. No: SK-006  
 2 OF 2

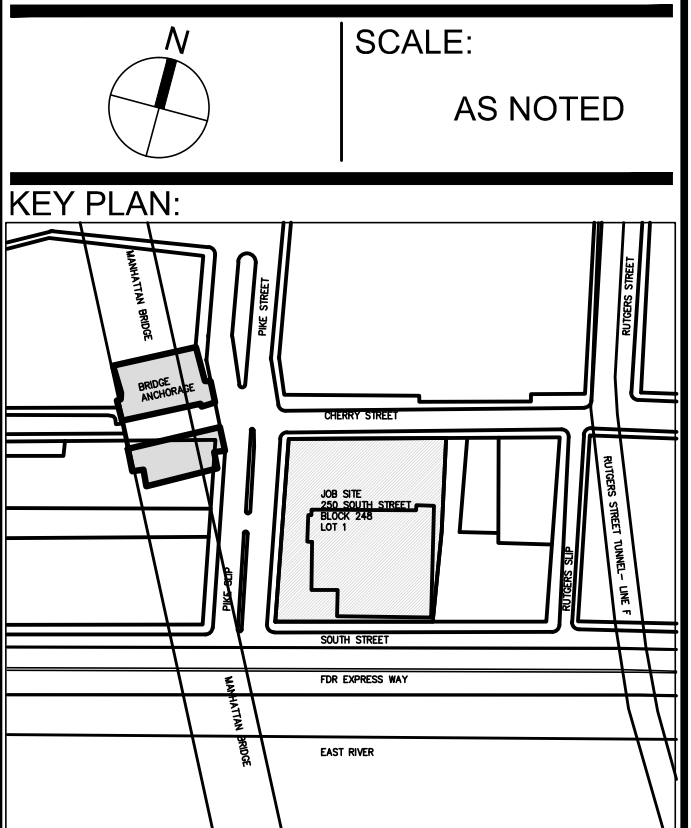
Damian Titus  
 Buildings  
 APPROVED  
 Under Directive 2 of 2015  
 AMENDED APPLICATION  
 Date: 08/03/2015  
 NYC Development Hub





227 CHERRY ST.-250 SOUTH ST.  
NEW YORK, NY, 10018

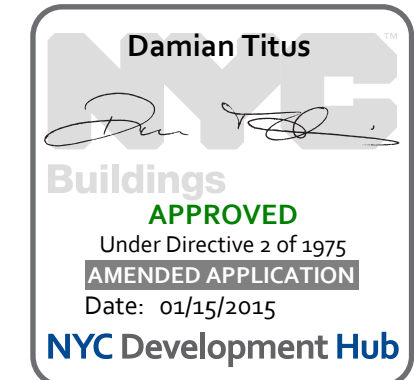
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9	DESIGN REVISIONS	11-21-14
8	DESIGN REVISIONS	11-03-14
7	DESIGN REVISIONS	10-24-14
6	DESIGN REVISIONS	09-23-14
5	D.O.B. COMMENTS	08-04-14
4	T.A. COMMENTS	07-16-14
3	DESIGN UPDATE	07-09-14
2	T.A. COMMENTS	05-30-14
1	T.A. FILING	04-03-14



Drawing Title: SUPPORT OF EXCAVATION PLAN

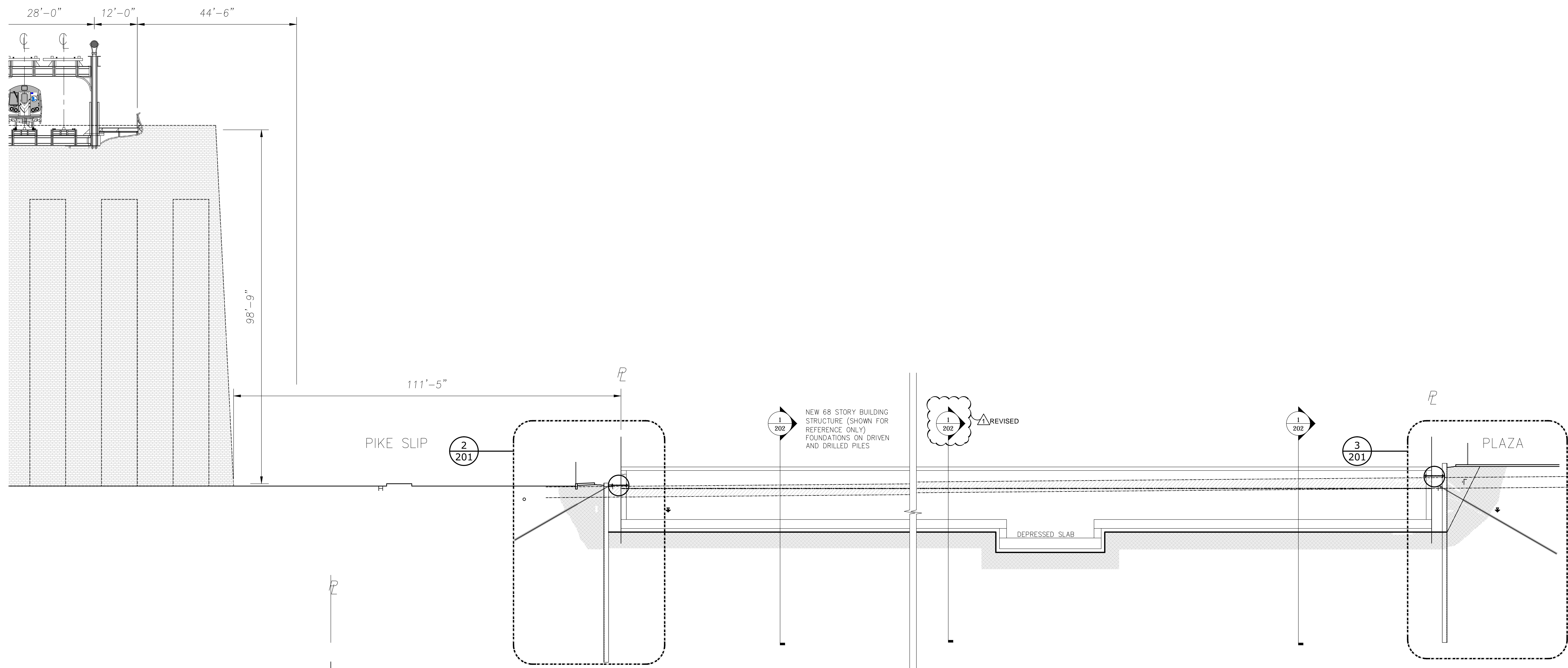
SEAL	Date	11-08-13
PROJECT No:	13046	
Drawn By:	GD	
DWG. No:	SOE-100.01	
		3 OF 9

1 SUPPORT OF EXCAVATION PLAN  
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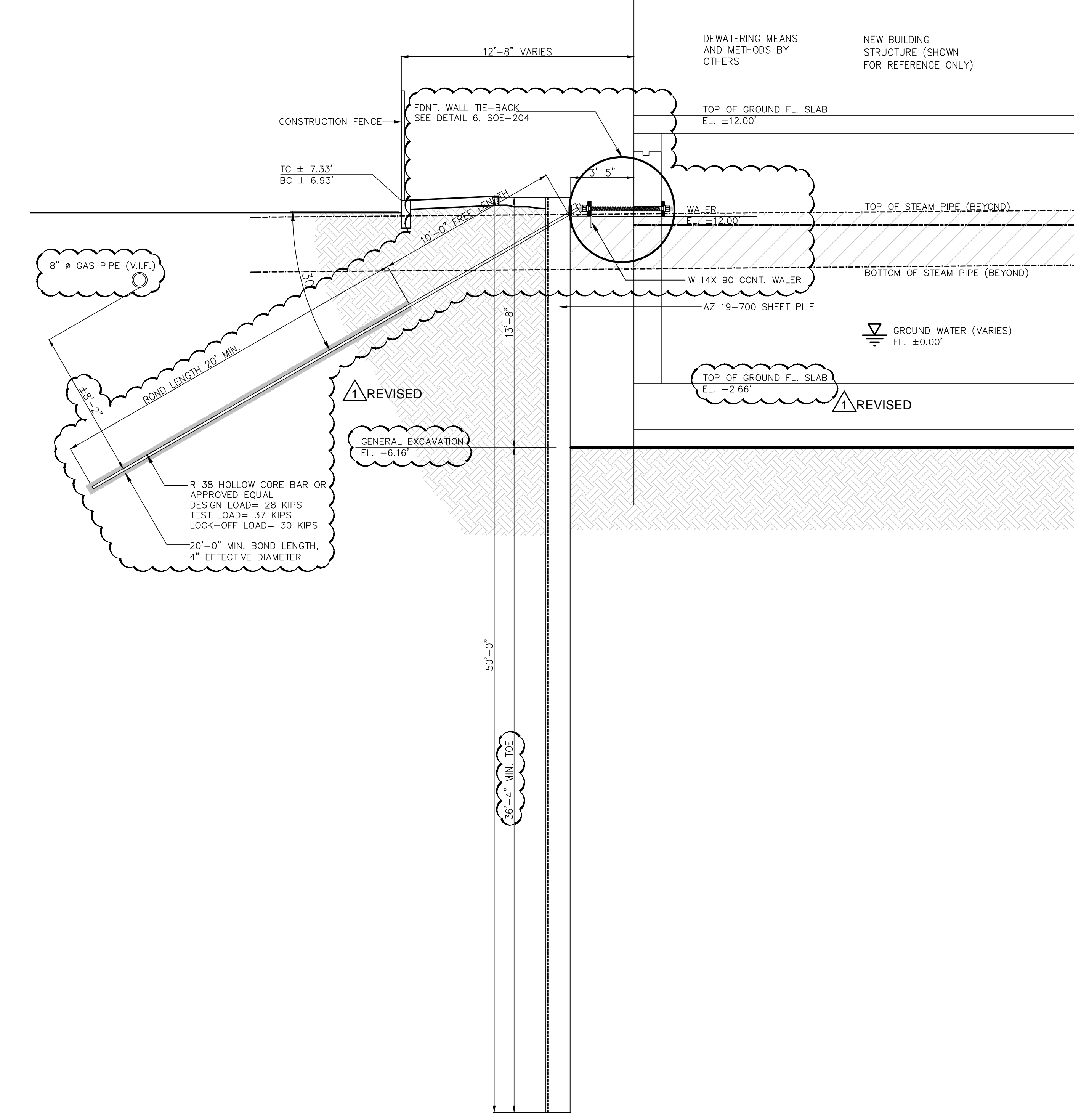




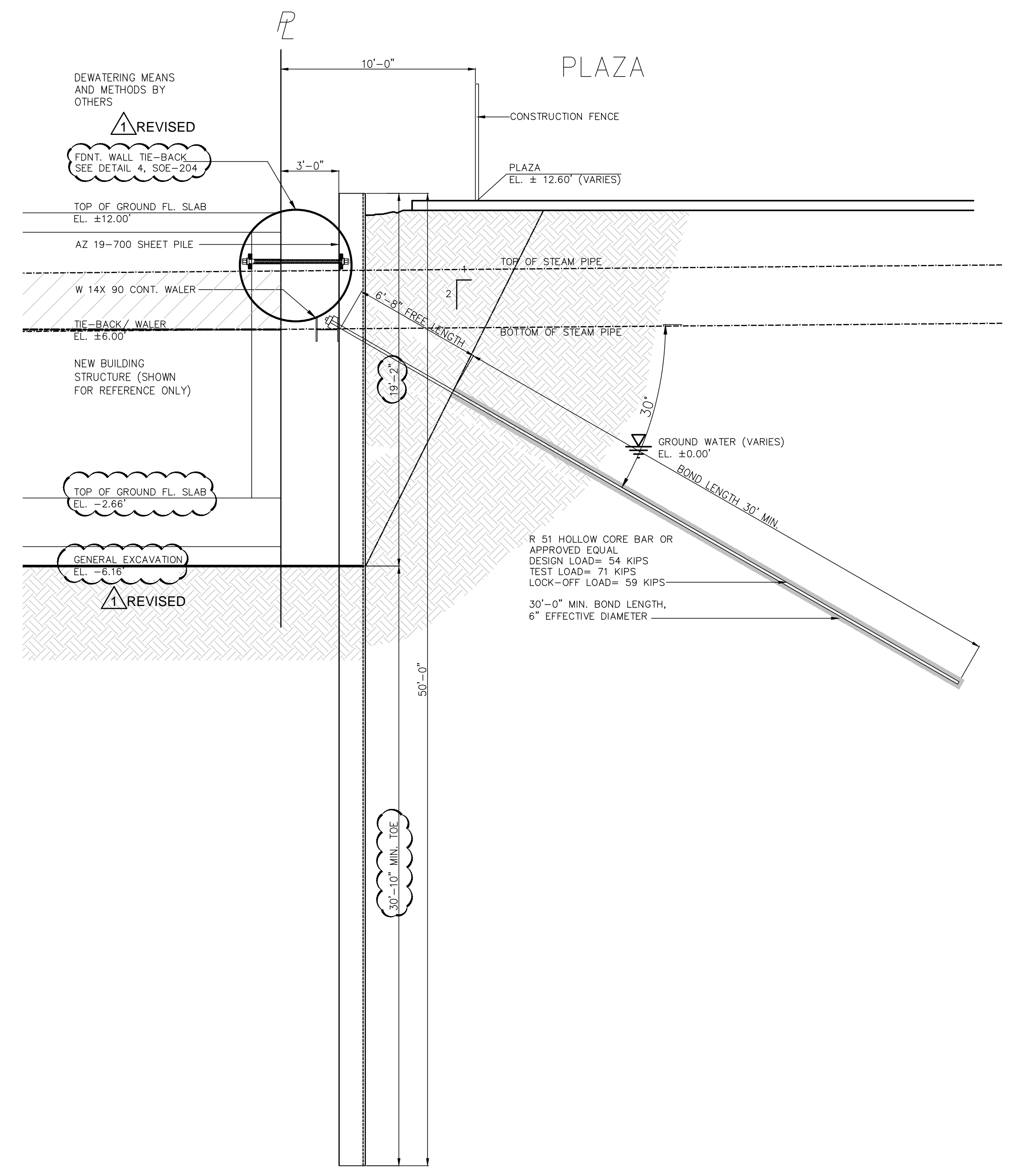
**227 CHERRY ST.-250 SOUTH ST.**  
 NEW YORK, NY, 10018



**1 SECTION**  
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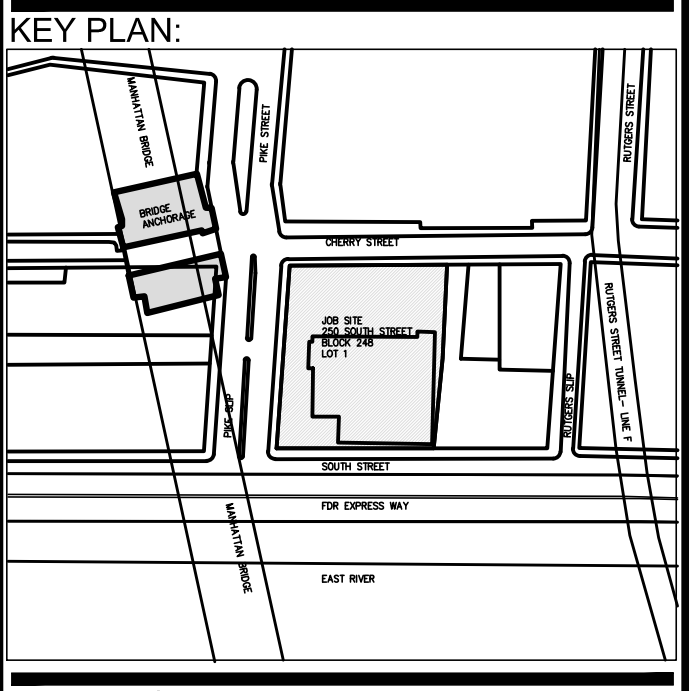
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**201 SCALE: 1/4"=1'-0"**



**3 SECTION**  
**201 SCALE: 1/4"=1'-0"**

10	D.O.B. RESUBMISSION	12-09-14
9	DESIGN REVISIONS	11-21-14
8	DESIGN REVISIONS	11-03-14
7	DESIGN REVISIONS	10-24-14
6	DESIGN REVISIONS	09-23-14
5	D.O.B. COMMENTS	08-04-14
4	T.A. COMMENTS	07-16-14
3	DESIGN UPDATE	07-09-14
2	T.A. COMMENTS	05-30-14
1	T.A. FILING	04-03-14

No. Revision: Date:

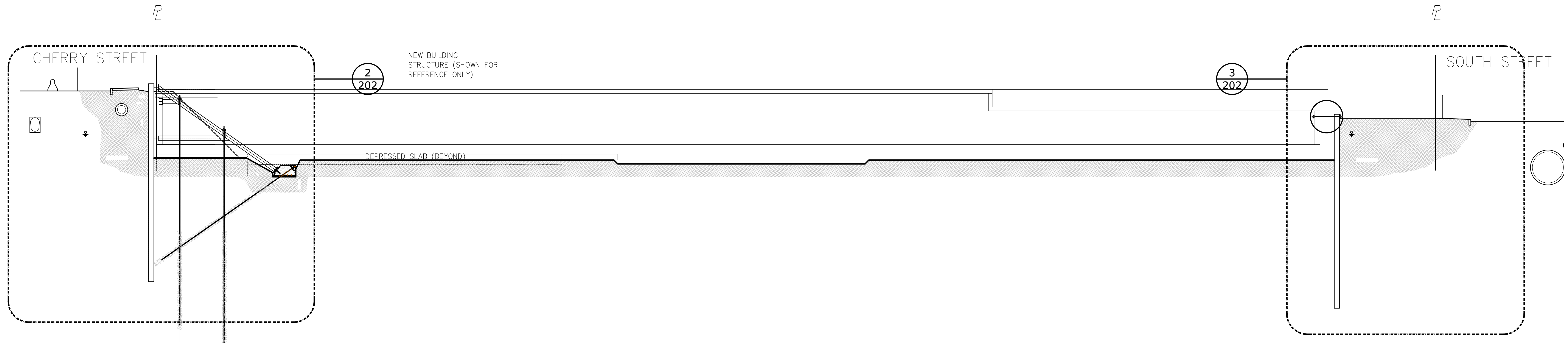


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**SOE SECTIONS**

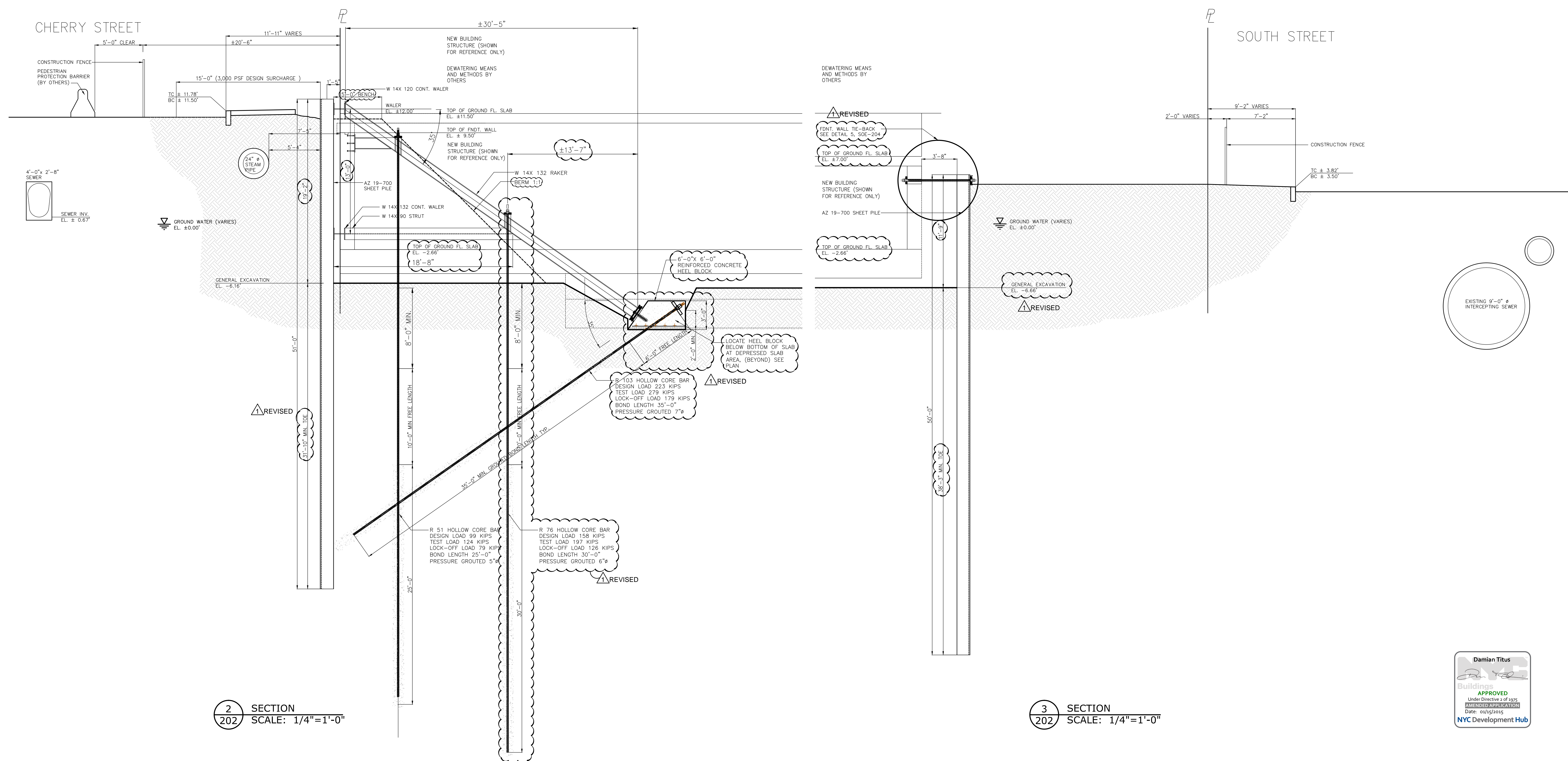
SEAL: Date: 11-08-13  
 PROJECT No: 13046  
 Drawn By: GD  
 DWG. No: SOE-201.01  
 5 OF 9

Damian Titus  
 Building  
 APPROVED  
 Under Directive 2 of 1975  
 NYCEP Registration No. 051512015  
 Date: 05/15/2015  
 NYC Development Hub





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



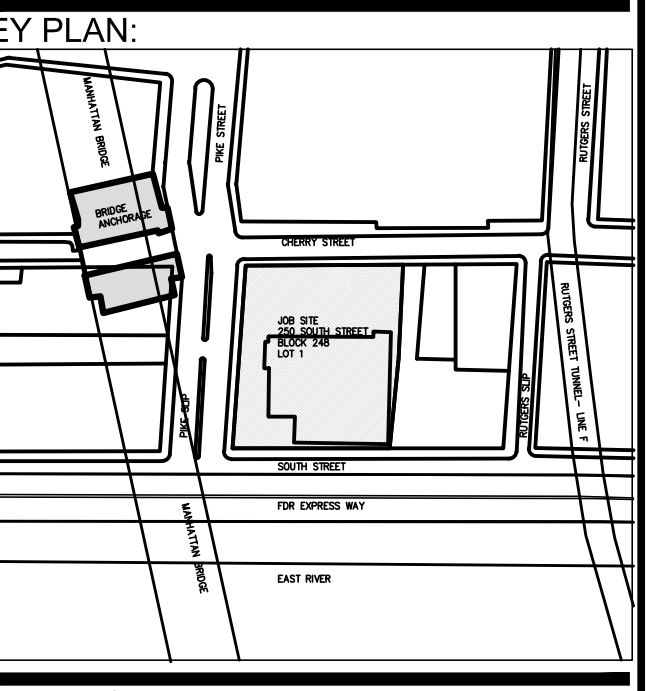
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SCALE: 1/4"=1'-0"

**3 SECTION**  
SCALE: 1/4"=1'-0"

**227 CHERRY ST.-250 SOUTH ST.**  
NEW YORK, NY, 10018

10	D.O.B. RESUBMISSION	12-09-14
9	DESIGN REVISIONS	11-21-14
8	DESIGN REVISIONS	11-03-14
7	DESIGN REVISIONS	10-24-14
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5	D.O.B. COMMENTS	08-04-14
4	T.A. COMMENTS	07-16-14
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2	T.A. COMMENTS	05-30-14
1	T.A. FILING	04-03-14

No. Revision: \_\_\_\_\_ Date: \_\_\_\_\_

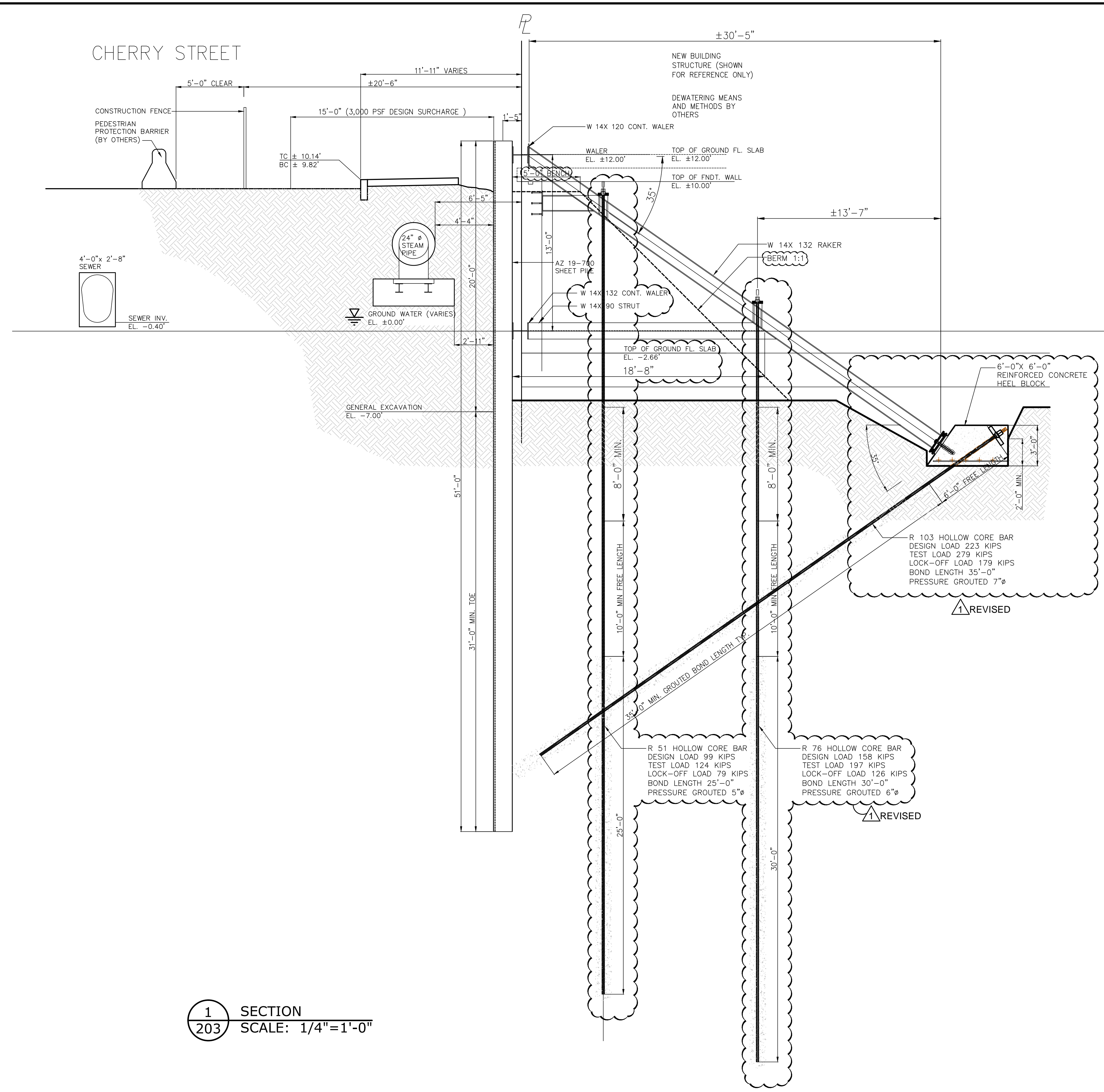


DRAWING TITLE:  
**SOE SECTIONS**

SEAL	Date	11-08-13
PROJECT No:	13046	
Drawn By:	GD	
DWG. No:	SOE-202.01	
	6 OF 9	

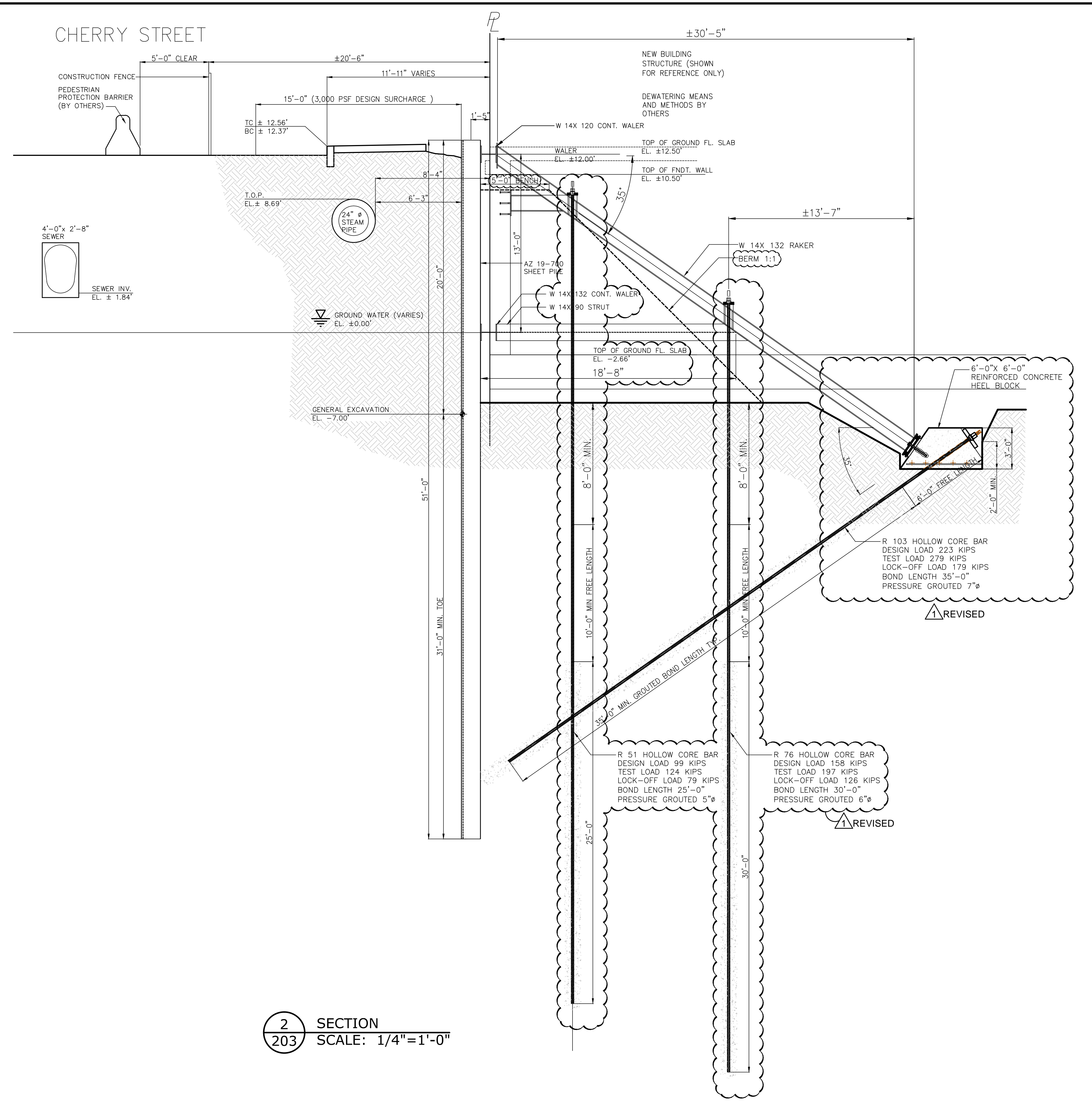
Damian Titus  
APPROVED  
Under Directive 2 of 1975  
NYCE Engineering & Construction  
Date: 03/15/2015  
NYC Development Hub

CHERRY STREET



1 SECTION  
 203 SCALE: 1/4"=1'-0"

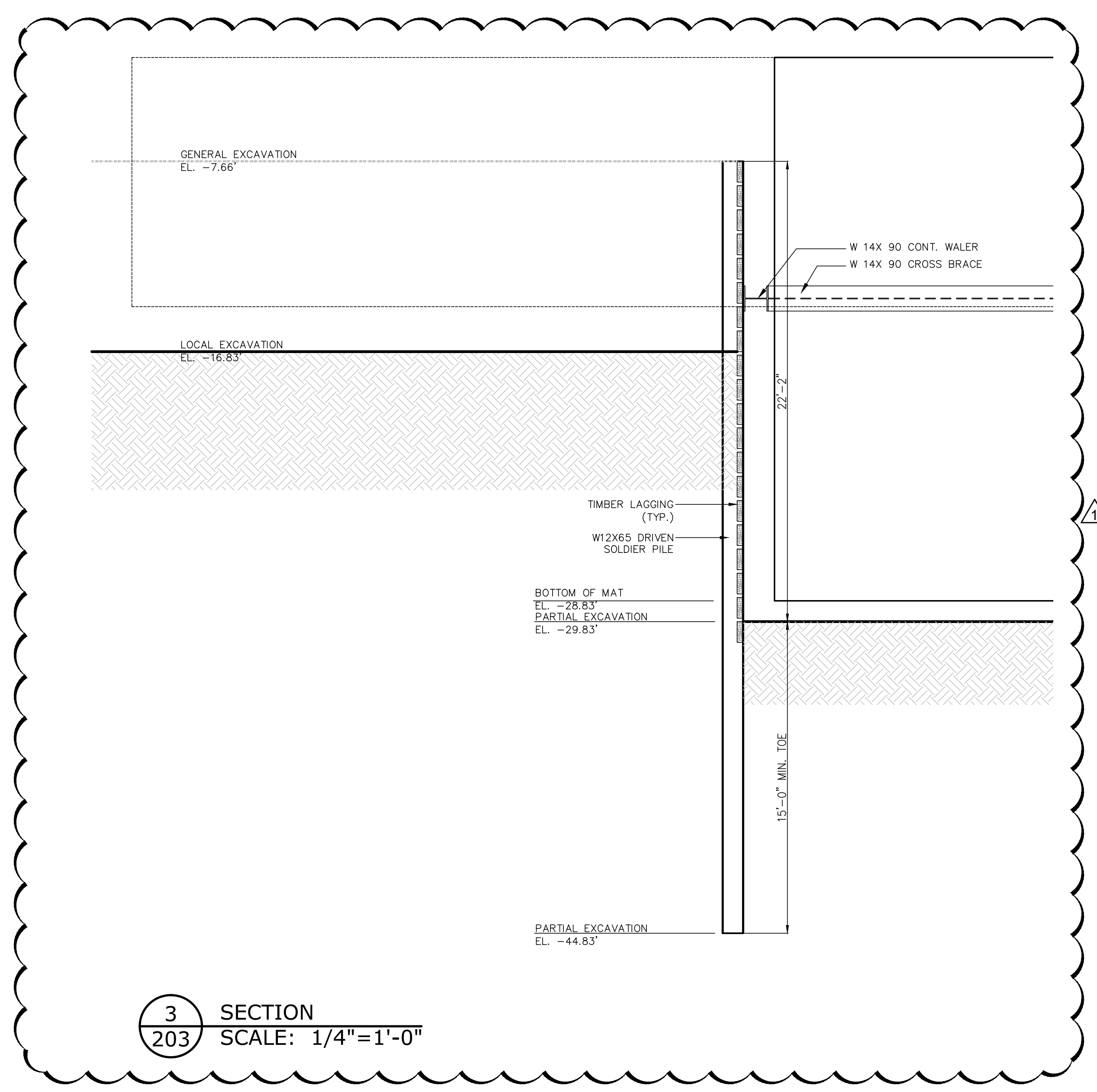
CHERRY STREET



2 SECTION  
 203 SCALE: 1/4"=1'-0"

CONSTRUCTION SEQUENCE AT CHERRY ST. SIDE:

1. INSTALL VIBRATION MONITORS ON STEAM PIPE (REFER TO MONITORING PLAN BY LANGAN).
2. INSTALL CONSTRUCTION FENCE AND PEDESTRIAN PROTECTION.
3. INVESTIGATE EXISTING STEAM PIPE STRUCTURE AND LOCATION BY EXCAVATING OBSERVATION TIMBER SHEETED PIT AT 50 FEET INTERVALS MAX. ALONG STEAM PIPE PROFILE, SEE DETAILS.
4. INVESTIGATE EXISTING UTILITIES ALONG CHERRY STREET. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO START OF EXCAVATION. LAY-OUT SHEET PILE WALL PROFILE AS SHOWN ON DWG. PERFORM PRE-TRENCH EXCAVATION TO INITIALLY REMOVE DEBRIS TO ALLOW FREE INSTALLATION.
5. PRE-TRENCH EXCAVATION SHALL BE PERFORMED IN SECTIONS, NO MORE THAN 20 FEET IN LENGTH AND NO DEEPER THAN ADJACENT STEAM LINE.
6. BACK FILL TRENCH WITH CLEAN SAND FILL.
7. INSTALL SHEET PILES AT THE PREPARED AREA USING A HIGH FREQUENCY, VARIABLE SPEED VIBRATORY HAMMER.



3 SECTION  
 203 SCALE: 1/4"=1'-0"

227 CHERRY ST.-250 SOUTH ST.  
 NEW YORK, NY, 10018

10	D.O.B. RESUBMISSION	12-09-14
9	DESIGN REVISIONS	11-21-14
8	DESIGN REVISIONS	11-03-14
7	DESIGN REVISIONS	10-24-14
6	DESIGN REVISIONS	09-23-14
5	D.O.B. COMMENTS	08-04-14
4	T.A. COMMENTS	07-16-14
3	DESIGN UPDATE	07-09-14
2	T.A. COMMENTS	05-30-14
1	T.A. FILING	04-03-14

No: Revision: \_\_\_\_\_ Date: \_\_\_\_\_

SCALE: AS NOTED

KEY PLAN:

DRAWING TITLE: SOE SECTIONS

SEAL: \_\_\_\_\_ Date: 11-08-13

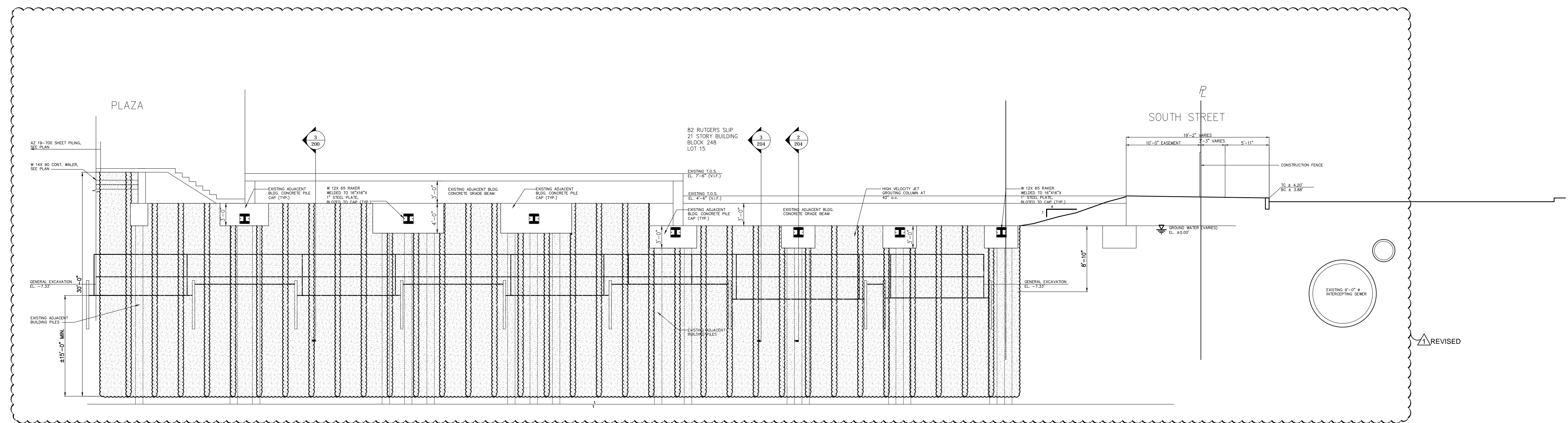
PROJECT No: 13046

Drawn By: GD

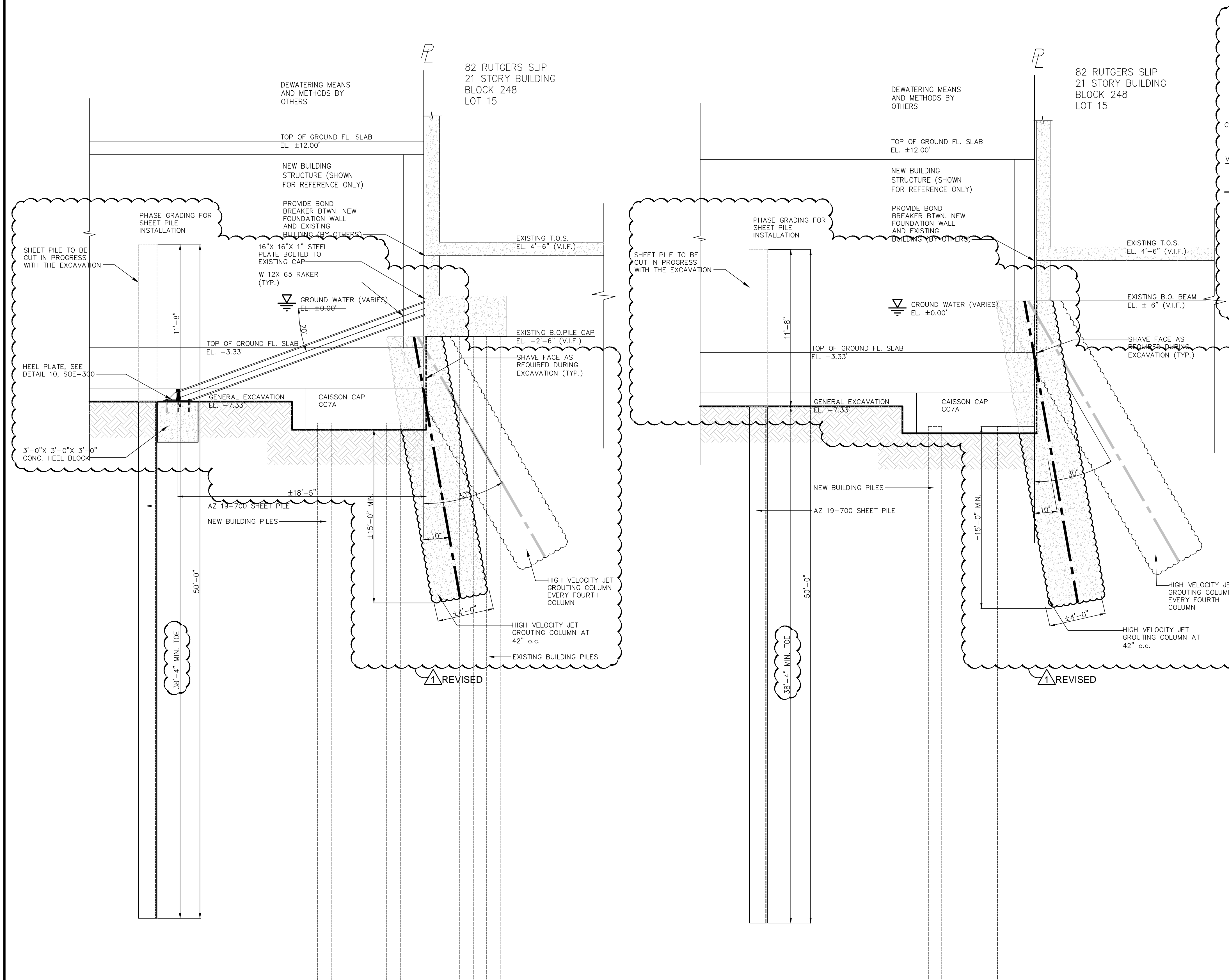
DWG. No: SOE-203.01

7 OF 9

Damian Titus  
 Building  
 APPROVED  
 Under Directive 2 of 1975  
 NY State Professional Engineer  
 Date: 03/15/2015  
 NYC Development Hub

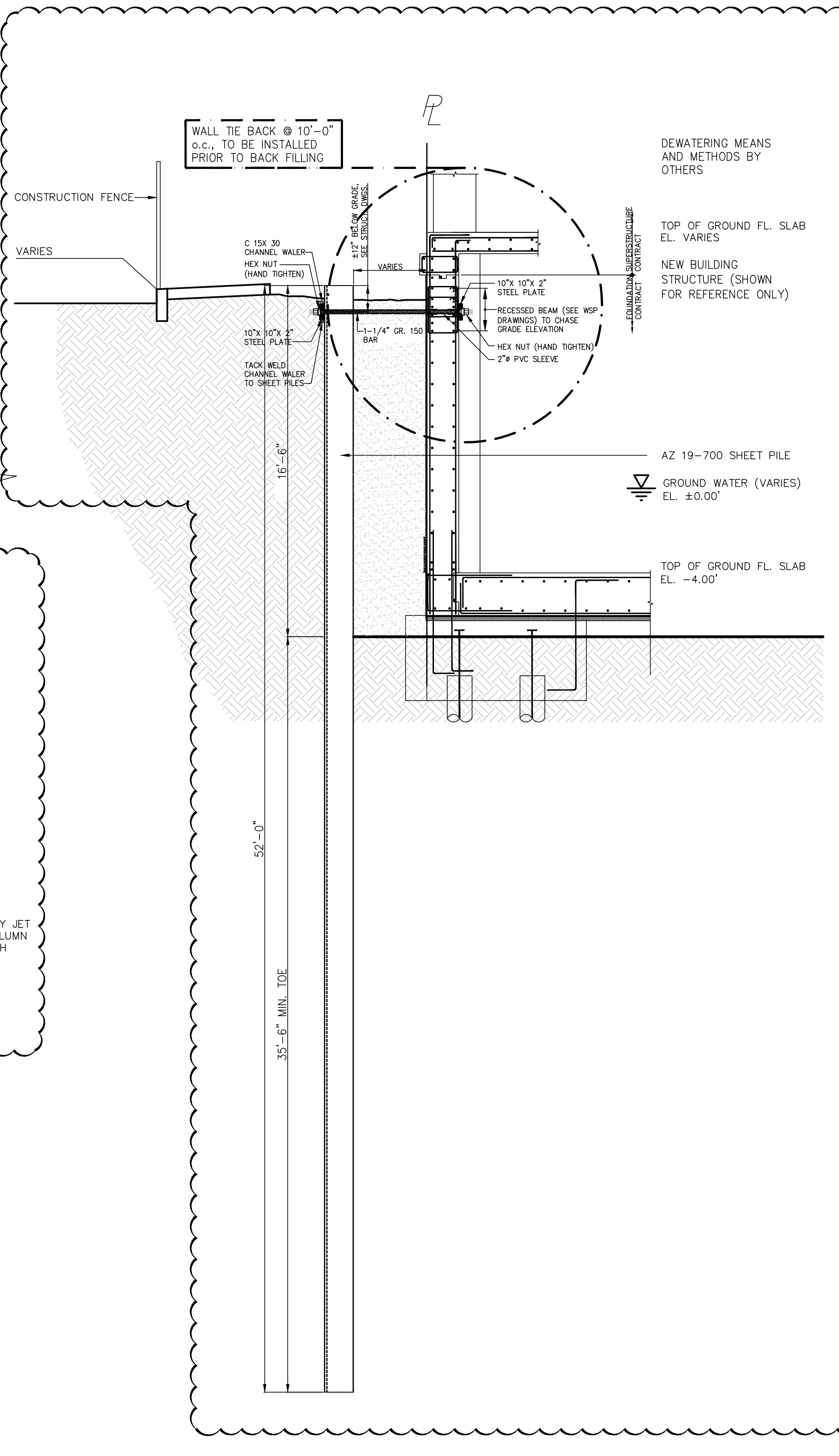


**1**  
**204** ELEVATION  
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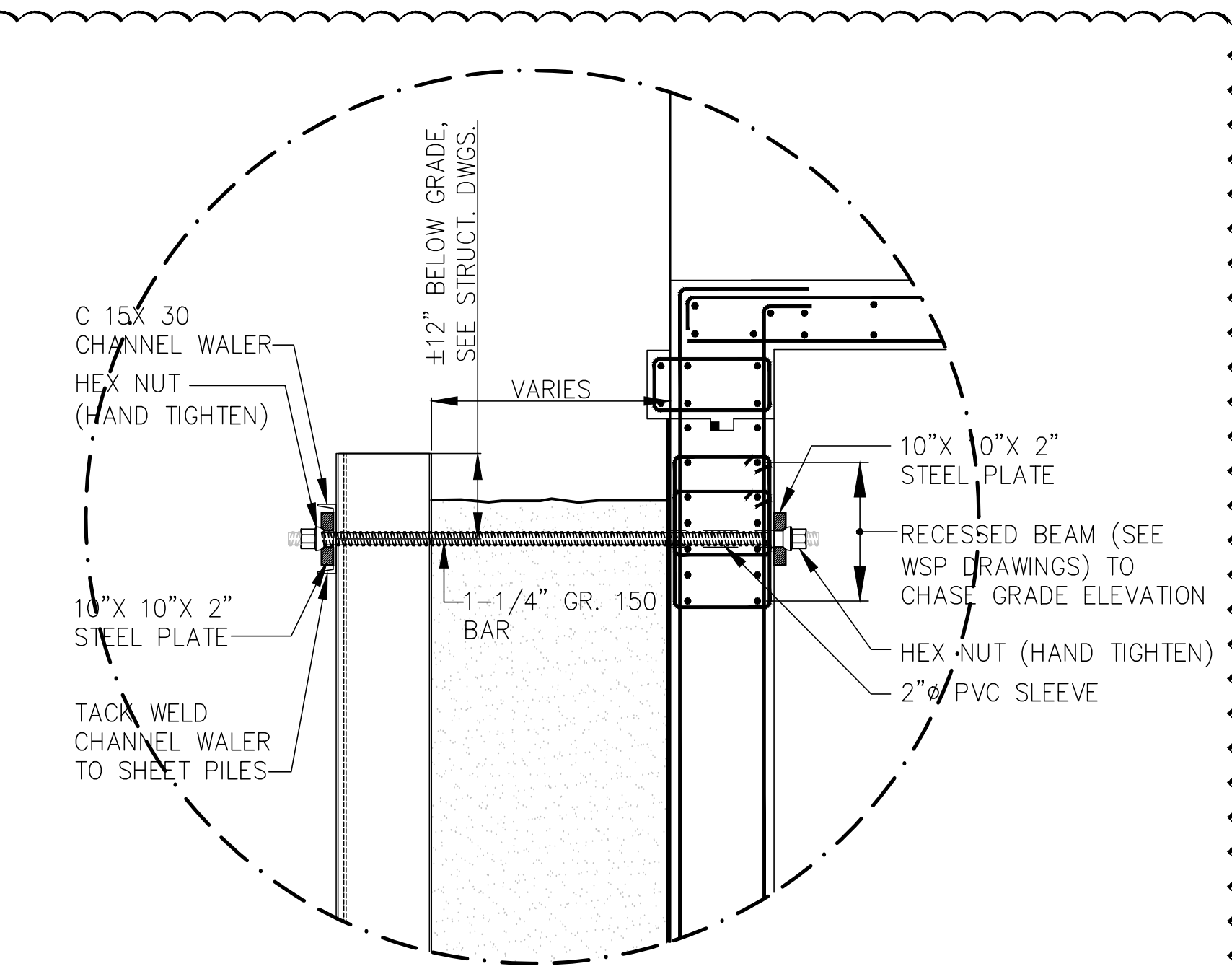


**2**  
**204** SECTION  
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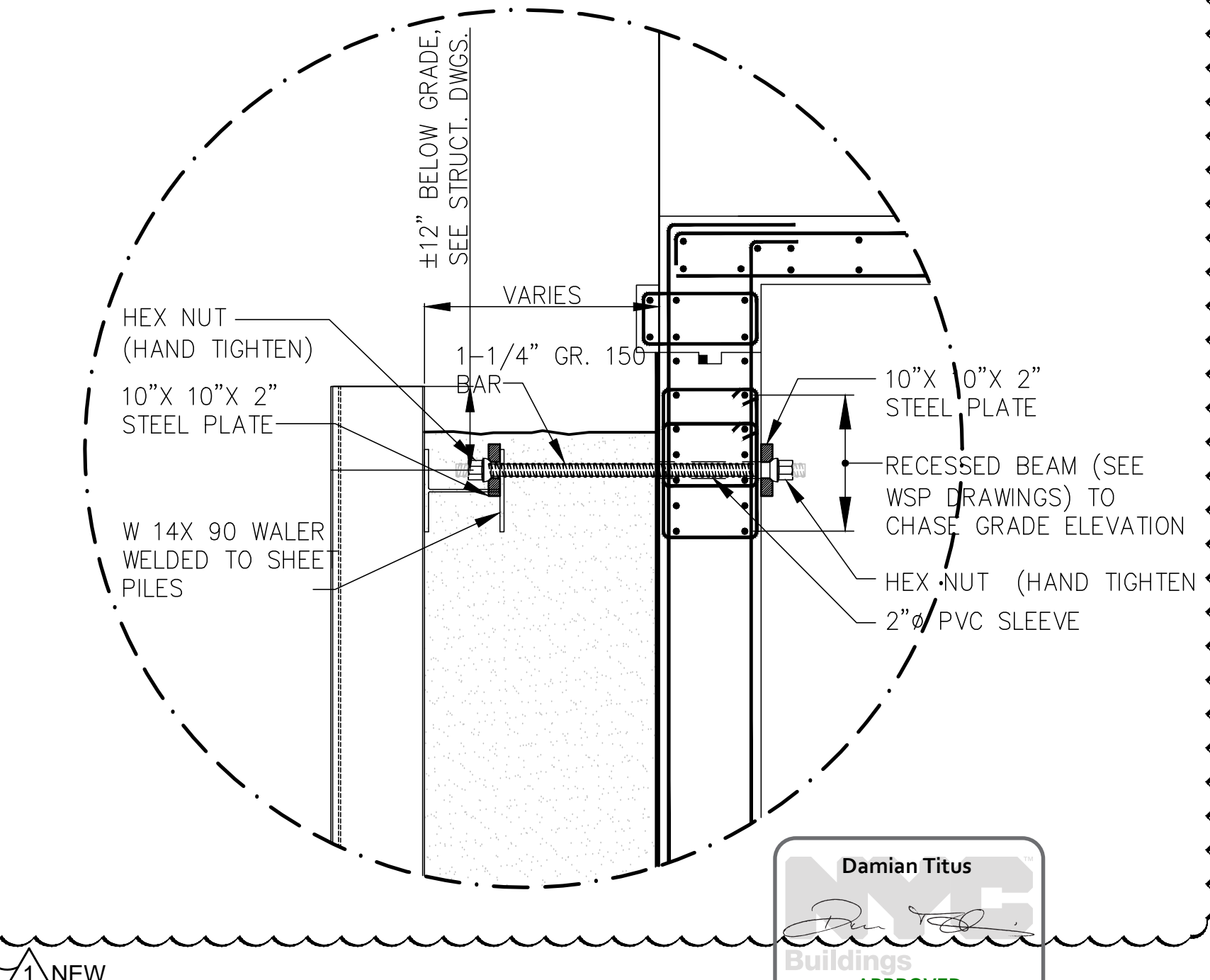
**3**  
**204** SECTION  
SCALE: 1/4"=1'-0"



**4**  
**204** SECTION  
SCALE: 1/4"=1'-0"



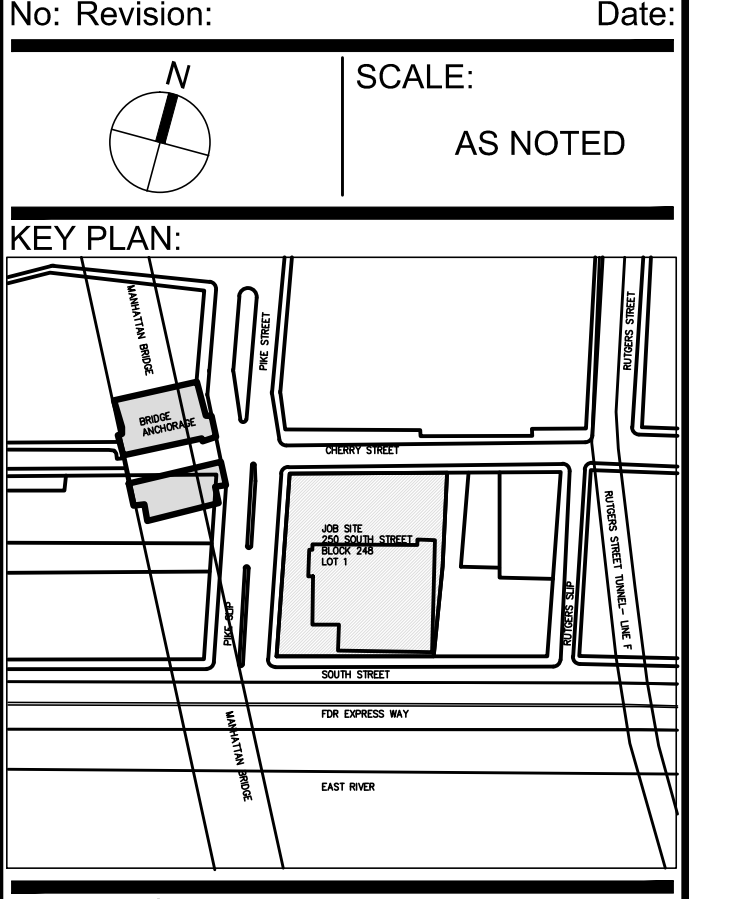
**5**  
**204** FDNT. WALL TIE-BACK W/ CHANNEL WALER DETAIL  
SCALE: 1/2"=1'-0"



**6**  
**204** FDNT. WALL TIE-BACK W/ WALER DETAIL  
SCALE: 1/2"=1'-0"

227 CHERRY ST.-250 SOUTH ST.  
NEW YORK, NY, 10018

10	D.O.B. RESUBMISSION	12-09-14
9	DESIGN REVISIONS	11-21-14
8	DESIGN REVISIONS	11-03-14
7	DESIGN REVISIONS	10-24-14
6	DESIGN REVISIONS	09-23-14
5	D.O.B. COMMENTS	08-04-14
4	T.A. COMMENTS	07-16-14
3	DESIGN UPDATE	07-09-14
2	T.A. COMMENTS	05-30-14
1	T.A. FILING	04-03-14



DRAWING TITLE:  
**SOE ELEVATIONS**

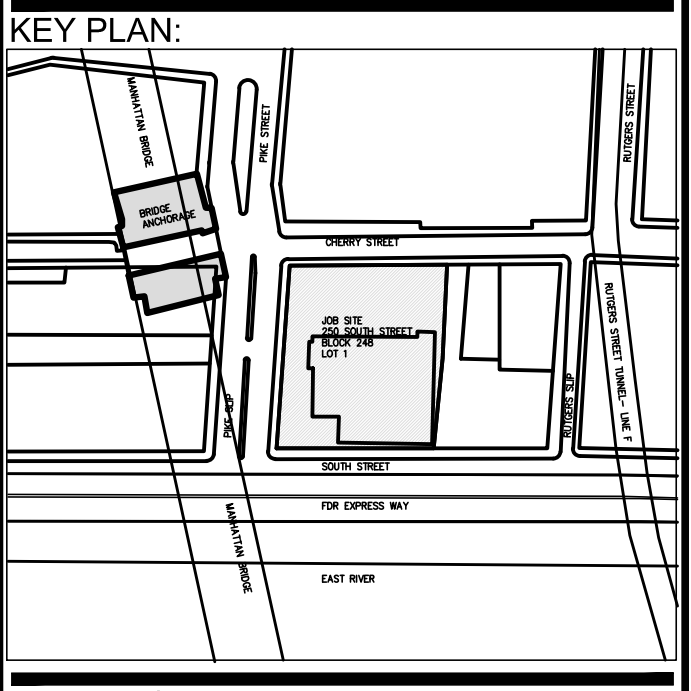
SEAL: Date: 11-08-13

PROJECT No: 13046  
Drawn By: GD  
DWG. No: SOE-204.01  
8 OF 9

APPROVED Under Directive 2 of 1975  
NYCEDP PROFESSIONAL  
Date: 04/15/2015  
NYC Development Hub

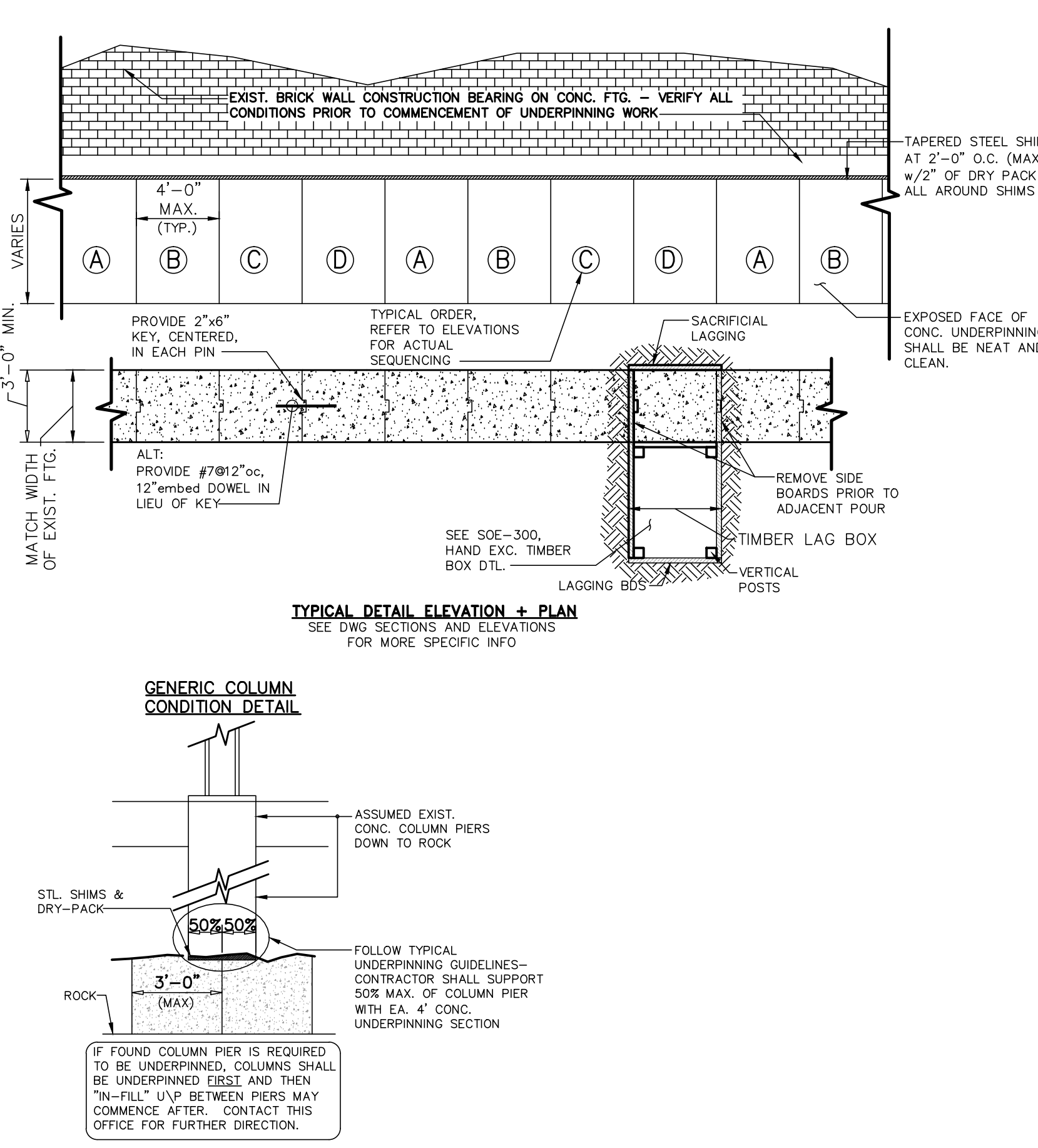
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9	DESIGN REVISIONS	11-21-14
8	DESIGN REVISIONS	11-03-14
7	DESIGN REVISIONS	10-24-14
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5	D.O.B. COMMENTS	08-04-14
4	T.A. COMMENTS	07-16-14
3	DESIGN UPDATE	07-09-14
2	T.A. COMMENTS	05-30-14
1	T.A. FILING	04-03-14

No. Revision: \_\_\_\_\_ Date: \_\_\_\_\_  
SCALE: AS NOTED

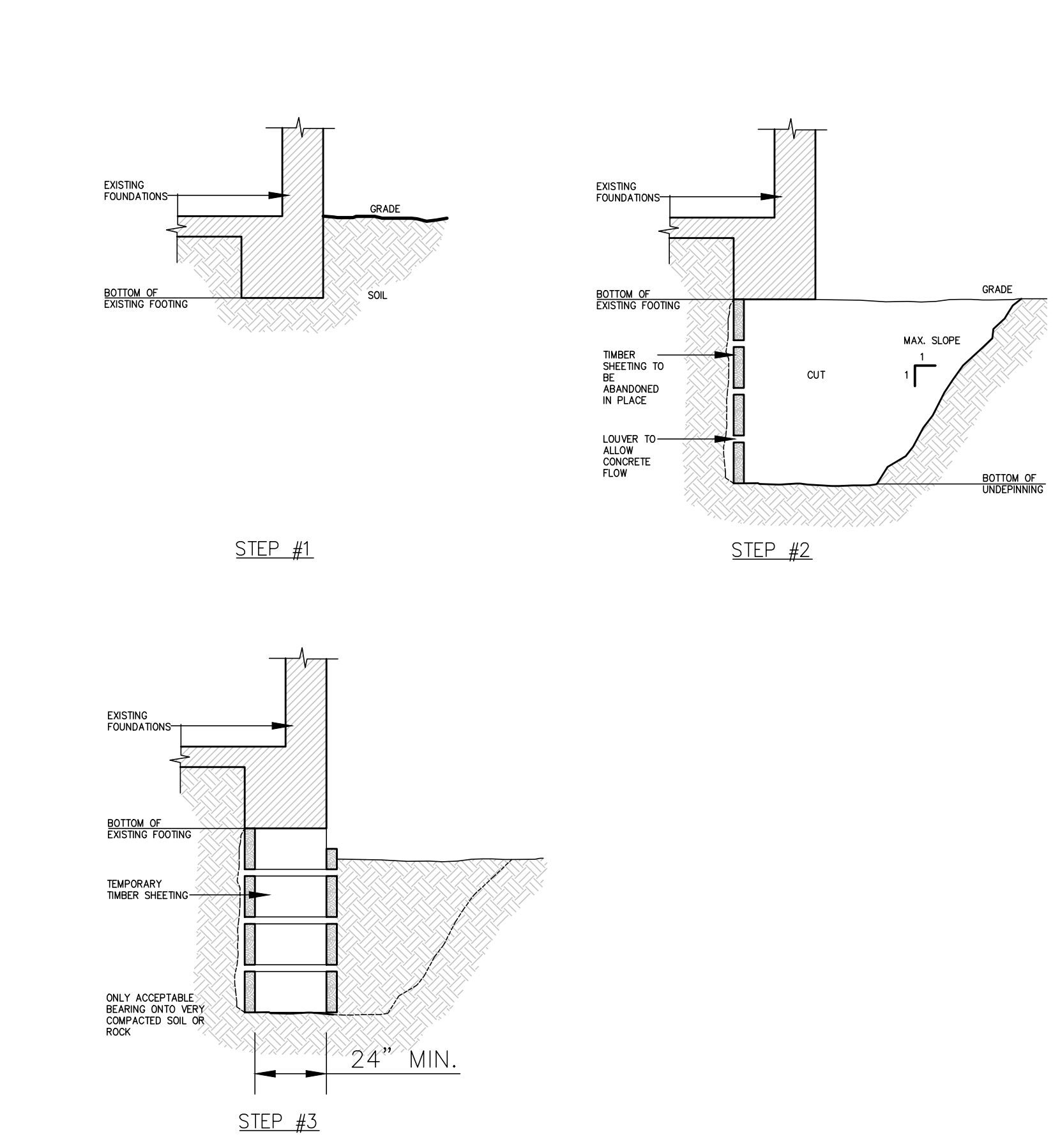


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Date: 11-08-13  
PROJECT No: 13046  
Drawn By: GD  
DWG. No: SOE-300.01  
9 OF 9

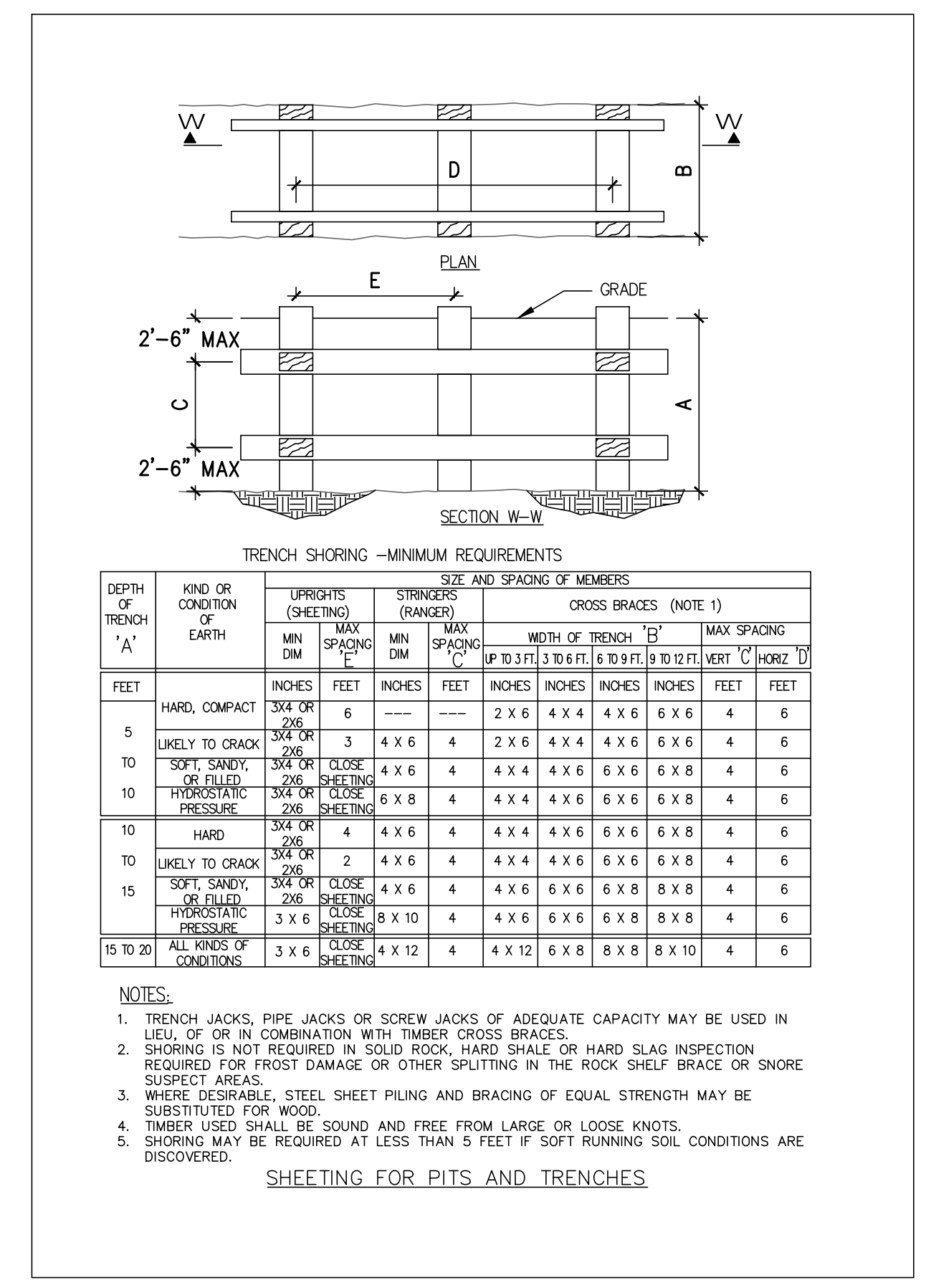
- GENERAL UNDERPINNING NOTES**
- THE CONTRACTOR SHALL COMPLY WITH ALL RELEVANT PROVISIONS OF THE NYC BUILDING CODE.
  - ALL FOUNDATIONS AND EARTHWORK OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NYC BUILDING CODE. ALL LOTS, BUILDINGS AND SERVICES ADJOINING THE FOUNDATION AND EARTHWORK AREAS SHALL BE PROTECTED AND PROPERLY SUPPORTED.
  - ALL TEST PITS, BORINGS, EXCAVATION WORK AND UNDERPINNING OPERATIONS ARE SUBJECT TO CONTROLLED INSPECTIONS.
  - THE OWNER SHALL RETAIN A LICENSED SURVEYOR TO SURVEY ALL LOAD BEARING WALLS, PIERS AND COLUMNS TO BE UNDERPINNED (UNLESS CONTRACTUALLY DEFINED OTHERWISE). THE SURVEYOR SHALL CHECK THE DATUM OF SUCH STRUCTURAL ELEMENTS EVERY TWO WEEKS FOR THE DURATION OF THE WORK.
  - THERE SHALL BE A PRE-CONSTRUCTION MEETING WITH THE OWNER, ARCHITECT, ENGINEER OF RECORD, GENERAL CONTRACTOR AND FOUNDATION SUB-CONTRACTOR(S) PRIOR TO WORK COMMENCING.
  - ALL ADJACENT PROPERTIES, INCLUDING BUT NOT LIMITED TO EXISTING WALLS AND FOOTINGS ARE TO BE OBSERVED BY THE ENGINEER OF RECORD AND ENGINEER RESPONSIBLE FOR THE CONTROLLED INSPECTIONS PRIOR TO WORK COMMENCING.
  - THE CONTRACTOR SHALL REQUEST PERMISSION TO ENTER BUILDINGS DIRECTLY ADJACENT TO THE AREAS OF PROPOSED UNDERPINNING.
  - NO FOUNDATION OR EARTHWORK PERMIT SHALL BE ISSUED UNTIL AT LEAST FIVE DAYS AFTER A WRITTEN NOTICE OF THE PERMIT APPLICATION HAS BEEN PROVIDED BY THE APPLICANT TO THE OWNER OF ALL ADJOINING LOTS, BUILDINGS AND SERVICE FACILITIES, WHOM MAY BE AFFECTED BY THE PROPOSED FOUNDATION WORK OR EARTHWORK OPERATIONS.
  - THE UNDERPINNING FOUNDATIONS SHALL BEAR ON SUBGRADE HAVING A BEARING CAPACITY EQUAL TO OR GREATER THAN THE SUBGRADE OF THE EXISTING FOUNDATION. THE SUBGRADE AT THE LEVEL OF THE EXISTING FOUNDATION SHALL BE INSPECTED BY A LICENSED PROFESSIONAL ENGINEER RETAINED BY THE OWNER (UNLESS CONTRACTUALLY NOTED OTHERWISE) TO VERIFY THE BEARING CAPACITY, AND DEFICIENCIES BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.
  - DO NOT TRANSFER THE BUILDING LOAD ONTO NEW UNDERPINNING WALLS UNTIL ALL WALLS HAVE ATTAINED 50% OF THE CONCRETE DESIGN STRENGTH, AS CONFIRMED BY THE CYLINDER TESTS, OR 96 HOURS.
  - DO NOT PLACE BACKFILL AGAINST NEW UNDERPINNING WALLS UNTIL CONFIRMED BY THE CYLINDER TEST, OR 96 HOURS.
  - ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
  - ALL GROUT SHALL BE NONSHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI.
  - ALL DRYPACK SHALL BE A MIXTURE OF 1 PART CEMENT AND 2 PARTS DAMP SAND, WITH 0-INCH SLUMP.
  - ALL UNDERPINNING SHEETING AND BRACING TO REMAIN SHALL BE PRESSURE TREATED LUMBER AND/OR EXCAVATION BELOW THE WATER TABLE SHOULD BE AVOIDED, IF POSSIBLE. DEWATER THE SITE PRIOR TO EXCAVATION. EXCAVATION MAY ONLY PROCEED AFTER REVIEW BY THE ENGINEER OF RECORD.
  - IF WATER IS ENCOUNTERED IN THE PIT, PROVIDE LOCAL PUMPING TO REMOVE WATER FROM THE PIT.
  - ALL SIZES OR SLOPES OF EXCAVATIONS OR ORNAMENTS SHALL BE INSPECTED AFTER TRANSFORMS.
  - THE UNDERPINNING SHALL BE CONSTRUCTED IN A MANNER SUCH THAT THE EXPOSED FACE OF THE CONCRETE IS VERTICAL (OR AS OTHERWISE SPECIFIED), CLEAN AND NEAT.
- UNDERPINNING LAYOUT & PROCEDURES**
- STARTING WITH SEGMENTS "A" ONLY, DIG PITS 4'-0" WIDE MAXIMUM, SIMULTANEOUSLY PLACING REQUIRED SHEETING AND BRACING ALL PITS TO BE SHEETED ON ALL FOUR SIDES. PACK VOIDS BETWEEN SHEETING AND SOIL WITH SOIL CEMENT, LEAVE A MINIMUM OF 12"-0" OF EXISTING SOIL BETWEEN PITS.
  - CLEAN BOTTOM OF EXISTING FOOTING AND RECOMPACT DISTURBED SOIL AT BOTTOM OF PIT WITH TAMMERS (APPLICABLE TO SOIL ONLY). COMPACT TO 95% OF MAXIMUM DENSITY OF SOIL. LOSS OF GROUND SHOULD BE KEPT TO A MINIMUM BY BACK FILING BEHIND THE BOARDS WHERE AND WHEN POSSIBLE WITH GROUT PUMPED INTO VOIDS.
  - THE CONTRACTOR SHALL INSTALL ADEQUATE LATERAL BRACING SYSTEM(S) TO PREVENT MOVEMENT IN THE EXISTING STRUCTURE(S) AND IN THE NEW UNDERPINNING IF NECESSARY.
  - POUR NEW CONCRETE UNDERPINNING FOR SEGMENTS "A". AFTER CONCRETE ATTAINS 50% OF DESIGN STRENGTH, OR 96 HOURS, DRIVE 2"x4" TAMPED STEEL WEDGES AT 2'-0" ON CENTER MAXIMUM, THEN PACK SOLID WITH DRYPACK (MIXTURE 1 PART CEMENT, 2 PARTS DAMP SAND, WITH 0-INCH SLUMP) INTO SPACE BETWEEN TOP OF UNDERPINNING AND BOTTOM OF EXISTING FOOTING TO TRANSFER LOAD. ENSURE THAT THE BACK OF VOID IS FORMED SO THAT DRYPACK IS NOT LOST WHEN STRAINED INTO THE GAPS.
  - ALTERNATE TO #4 "HIGH-POUR METHOD" - POUR NEW CONCRETE UNDERPINNING FOR EACH SEGMENT UP TO THE BOTTOM OF EXISTING FOOTING OF THE BUILDING PERMITTED IN LEVY OF DRY PACK. STONE CONCRETE POURED MINIMUM STRENGTH 4,000 PSI AND VIBRATED UP TO THE BOTTOM OF EXISTING FOOTING OF THE BUILDING AT THE SAME TIME OF UNDERPINNING. CONCRETE POURED TO REMOVE ALL VOIDS. OPTION 4A MUST ALSO INCLUDE INTERPLAST BY SIAL AD-MIX OR OTHER EXPANSIVE AGGREGATE IN CONCRETE MIXTURE. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR MIXING QUANTITIES.
  - FOR SEGMENTS "B" ONLY, DIG PITS 4'-0", MAXIMUM WIDTH, WITH REQUIRED SHEETING AND BRACING.
  - FOR SEGMENTS "B" REPEAT CONCRETING, CLEANING, COMPACTION, STEEL WEDGES AND DRYPACKING AS DESCRIBED IN NOTES 2, 3 AND 4.
  - FOR SEGMENTS "C", DIG PITS 4'-0" MAXIMUM WIDE, WITH REQUIRED SHEETING AND BRACING, AS INDICATED ON DETAILS.
  - FOR SEGMENTS "C" REPEAT CONCRETING, CLEANING, COMPACTION, STEEL WEDGES AND DRYPACKING AS DESCRIBED IN NOTES 2, 3 AND 4.
  - FOR SEGMENTS "D", DIG OUT SOIL BETWEEN COMPLETED SEGMENTS C & A. PROVIDE SHEETING AND BRACING, AS DESCRIBED IN NOTES 2, 3 AND 4.
  - FOR SEGMENTS "D" REPEAT CONCRETING, CLEANING, COMPACTION, STEEL WEDGES AND DRYPACKING AS DESCRIBED IN NOTES 2, 3 AND 4.
  - WHERE BOTTOM OF ADJACENT UNDERPINNING PITS ARE AT DIFFERENT ELEVATIONS, DEEPER PIT SHALL BE INSTALLED FIRST.
  - WHEN UNDERPINNING PITS CLOSER THAN 12 FEET APART SHALL NOT BE EXCAVATED AT THE SAME TIME.
  - WHEN UNDERPINNING ROCK MATERIAL, CONTRACTOR SHALL TAKE PRECAUTIONS SO AS NOT TO FRACTURE ROCK UNDER ADJOINING SECTION OR DAMAGE CONCRETE ALREADY POURED IN PLACE.



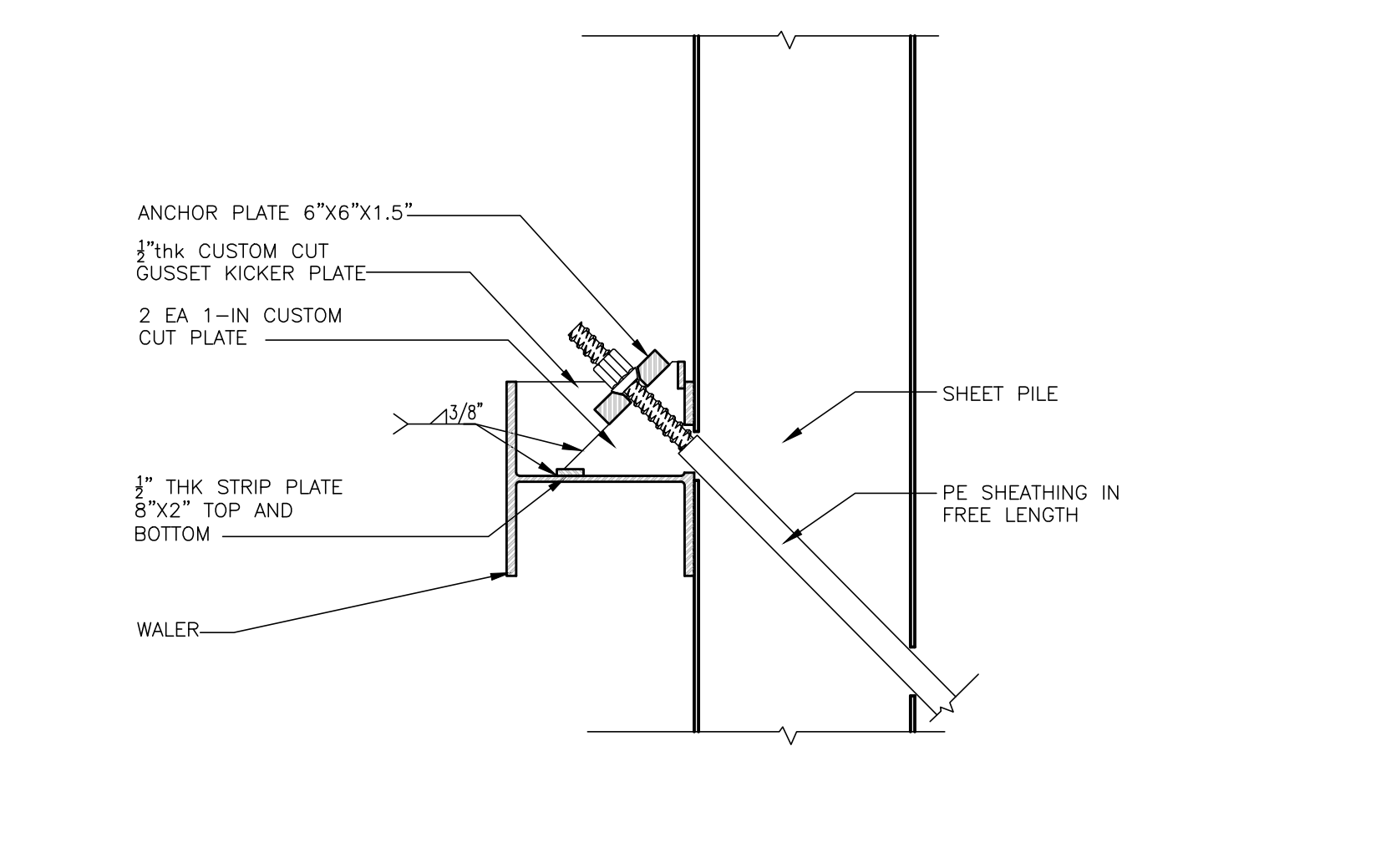
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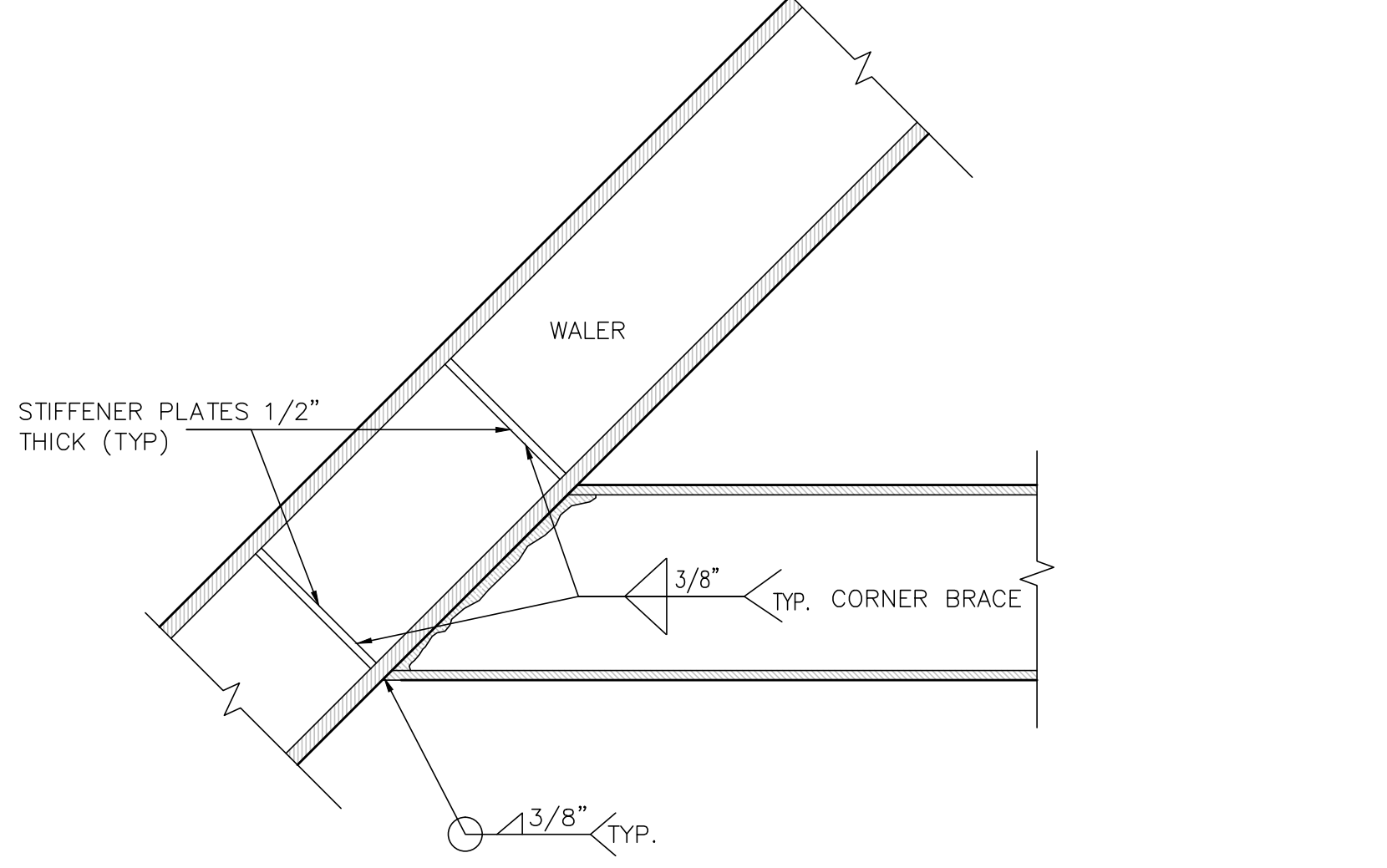
2 APPROACH PIT DETAIL  
300 NOT TO SCALE



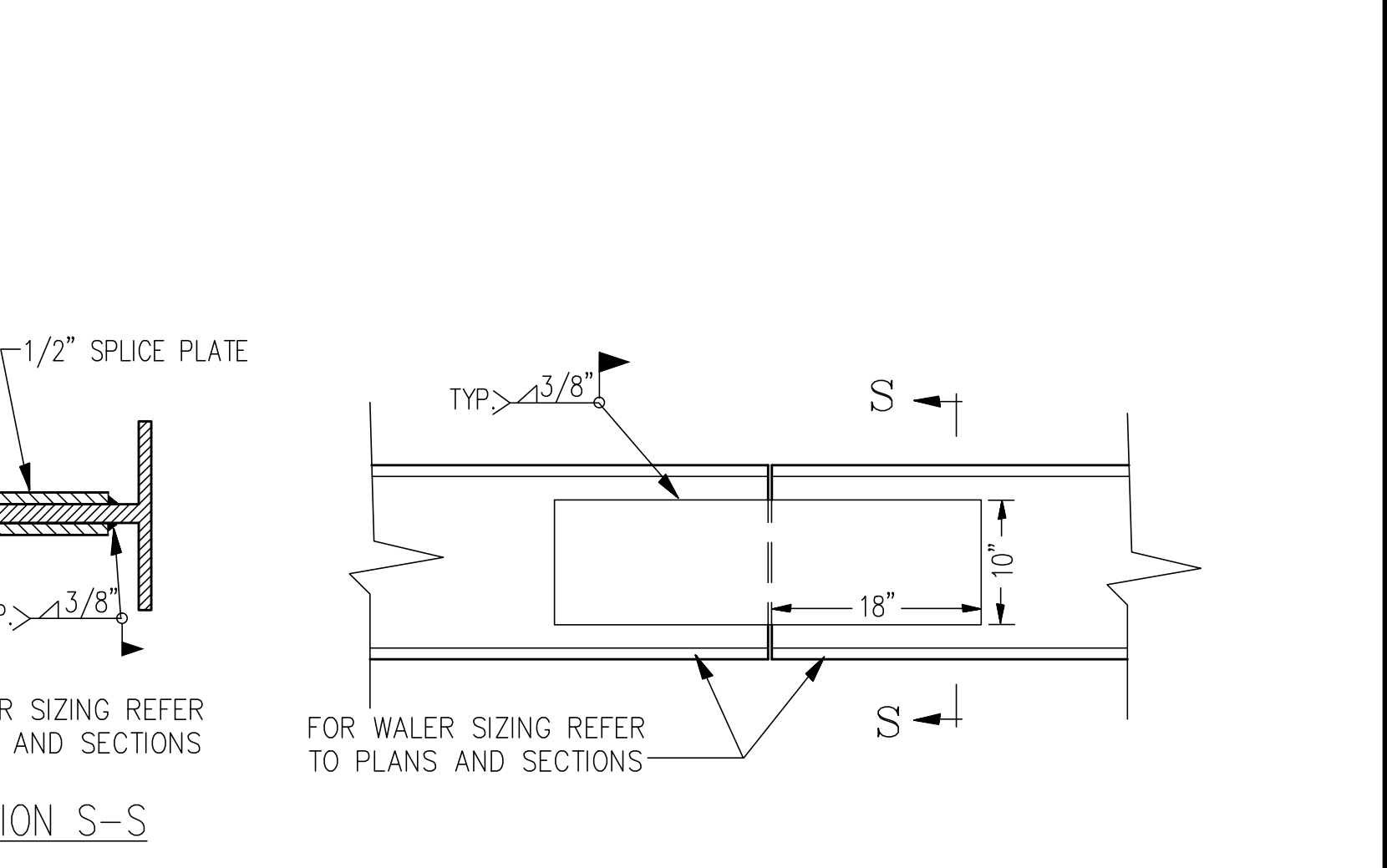
3 PITS AND TRENCHES SHEETING  
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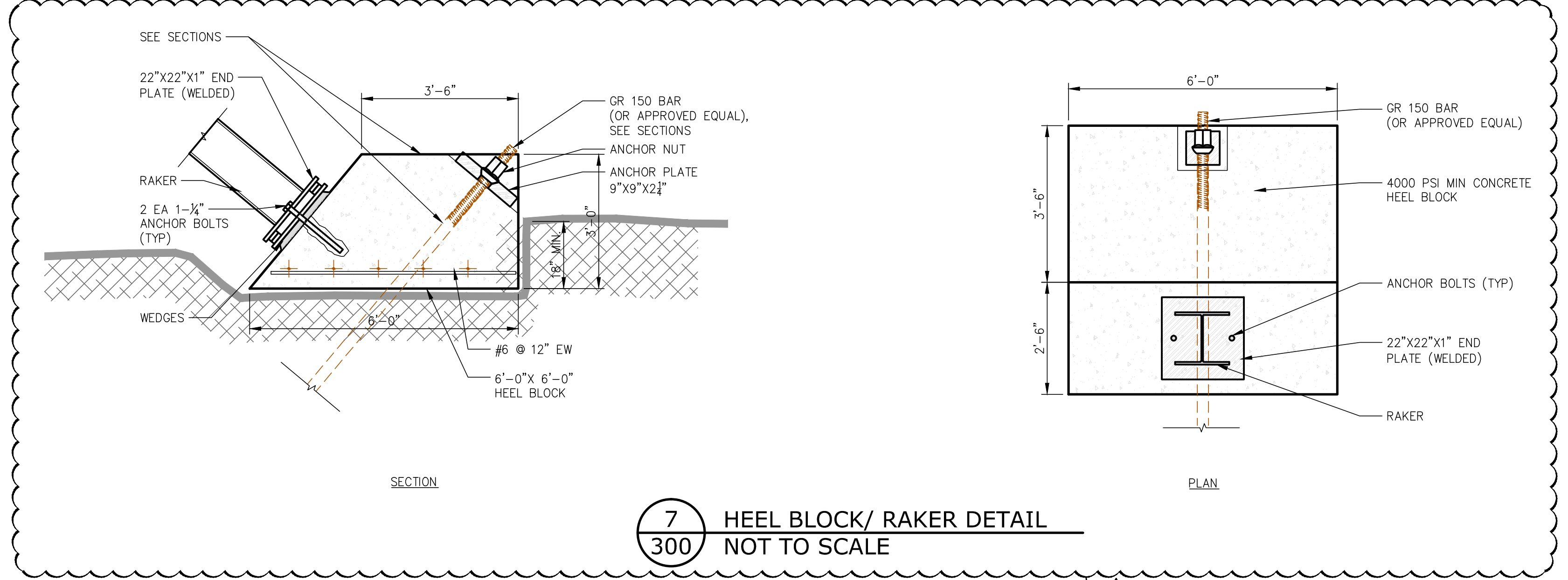
4 TIE-BACK THRU WALER DETAIL  
300 NOT TO SCALE



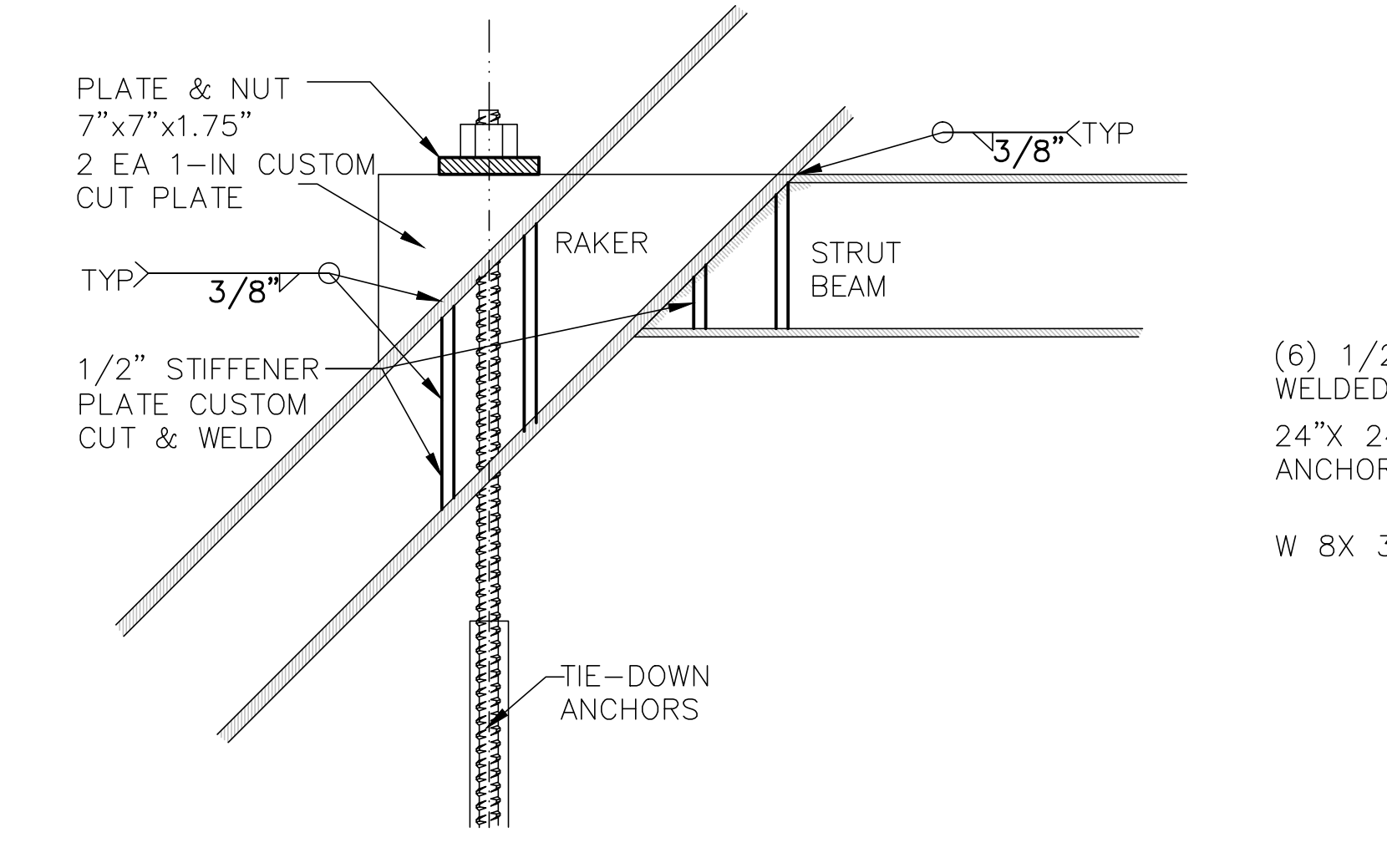
5 CORNER BRACE DETAIL  
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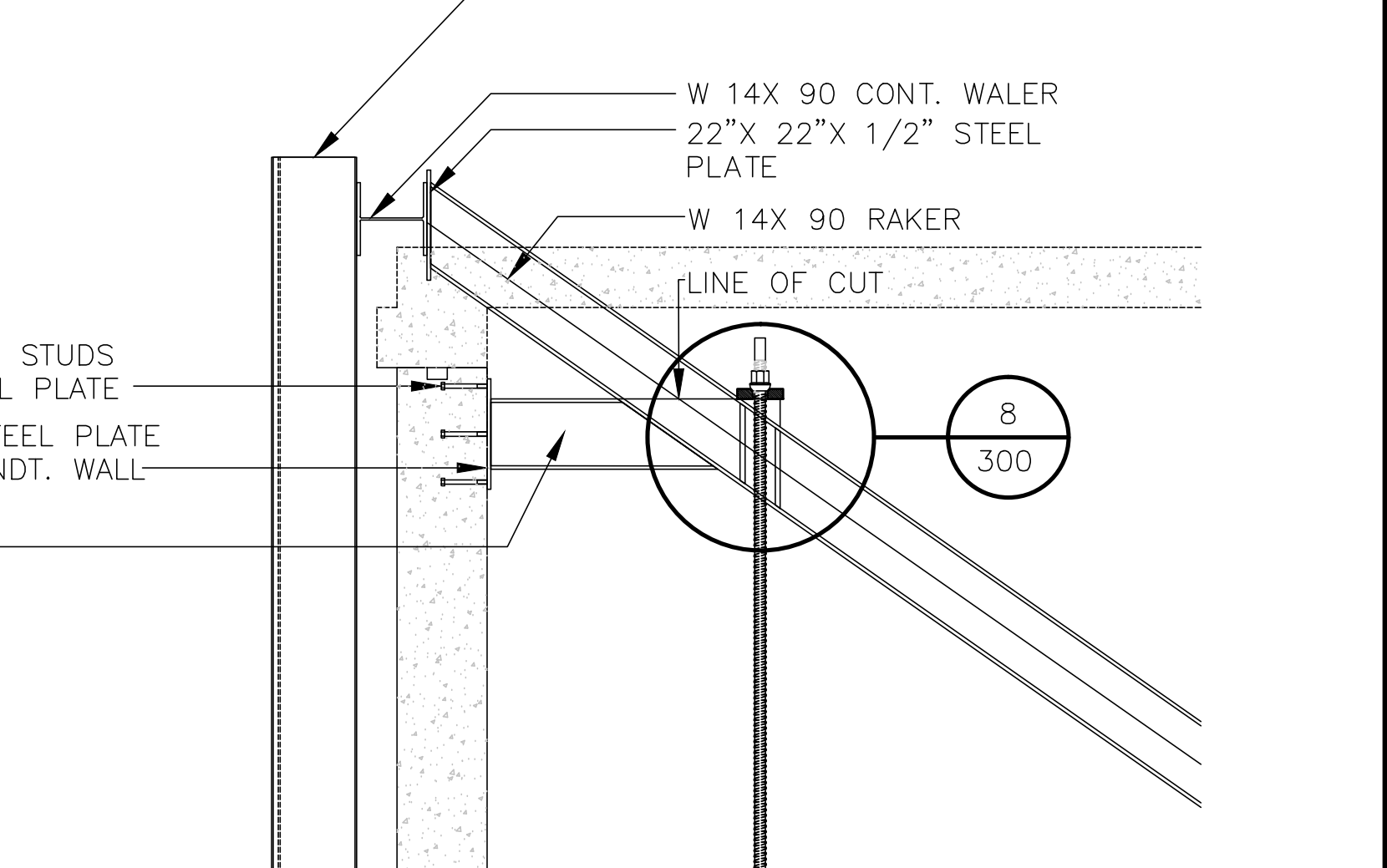
6 WALER SPLICE DETAIL  
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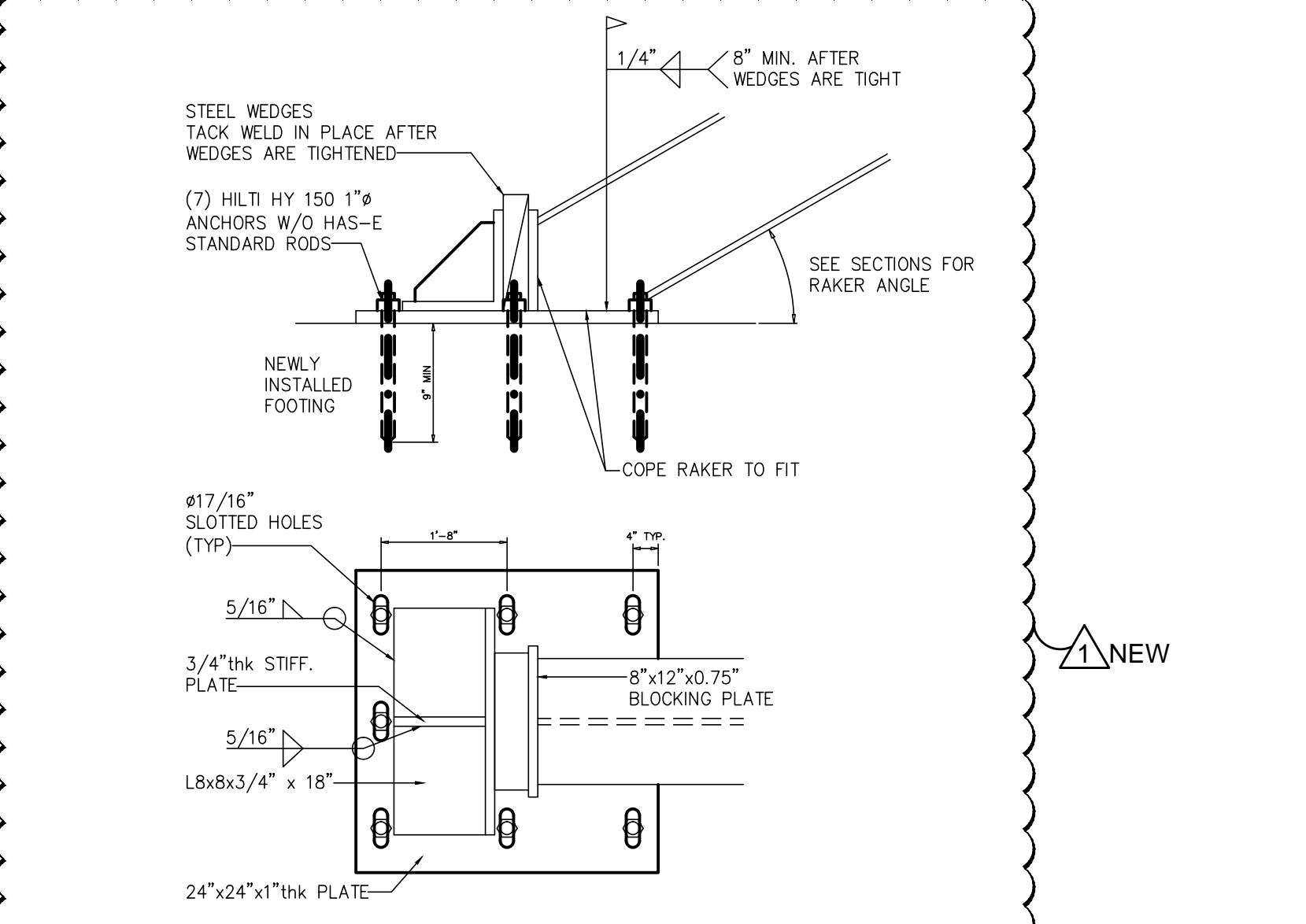
7 HEEL BLOCK/ RAKER DETAIL  
300 NOT TO SCALE



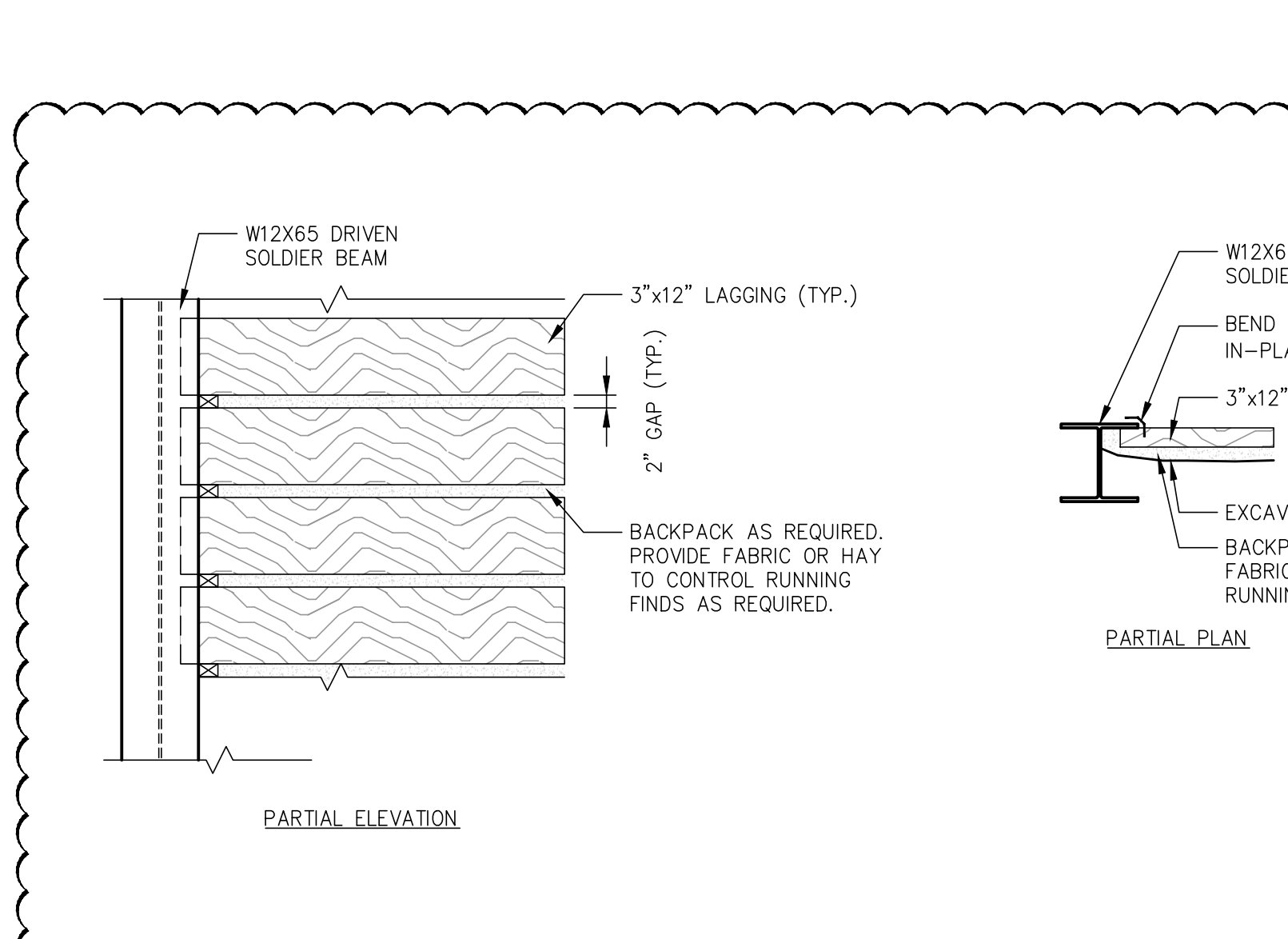
8 TIE-DOWN/ STRUT AT RAKER DETAIL  
300 NOT TO SCALE



9 RAKER/ WALER DETAIL  
300 NOT TO SCALE



10 HEEL PLATE  
300 NOT TO SCALE



11 INTERIOR CORE SHEET DETAIL- SEE PLAN  
300 NOT TO SCALE

Damian Titus  
Building APPROVED Under Directive 2 of 1975  
NYCEC Registration No. 00152015  
Date: 03/15/2015  
NYC Development Hub

ABBREVIATIONS:

Table of abbreviations for construction terms, including ANCHOR BOLT, ABOVE, AIR CONDITIONER, AMERICAN CONCRETE INSTITUTE, etc.

NON-STRUCTURAL ITEMS SHOWN ON THE STRUCTURAL/FOUNDATION DRAWINGS

1. THE FOLLOWING NON-STRUCTURAL ITEMS MAY BE SHOWN ON THE STRUCTURAL AND/OR FOUNDATION DRAWINGS FOR THE PURPOSE OF CLARITY IN INTERFACE WITH STRUCTURAL AND/OR FOUNDATION WORK.

- GEOTECHNICAL ENGINEER: FOUNDATION/UNDERSLAB WATERPROOFING, DAMPROOFING SYSTEMS, WALL DRAINAGE SYSTEM, ROCK ANCHORS, CAISSONS AND PILES, INCLUDING REINFORCEMENT, ROCK CONTOURS, etc.

CONTROLLED INSPECTIONS

Table with columns: (TERMINOLOGY PER SPECIAL INSPECTION), CURRENT CODE REFERENCES, (PREVIOUS TERMINOLOGY) "CONTROLLED INSPECTION". Rows include STRUCTURAL STEEL - WELDING, STRUCTURAL STEEL - ERECTION & BOLTING, etc.

\* THESE TESTS MUST BE PERFORMED BY A LICENSED CONCRETE TESTING LAB.

NOTES:

- 1. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION ON SCOPE AND DETAILED REQUIREMENTS FOR INSPECTIONS. 2. ALL SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN APPROVED SPECIAL INSPECTION AGENCY ACCEPTABLE TO THE ENGINEER OF RECORD.

PILE NOTES:

- 1. FOUNDATION DESIGN AND PILE STRENGTH ARE BASED ON GEOTECHNICAL REPORT BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING AND LANDSCAPE ARCHITECTURE, D.P.C. DATED JANUARY 2, 2014. 2. PILE CAPACITIES SEE DWG. FO-100.

STRUCTURAL STEEL NOTES:

- 1. STRUCTURAL STEEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE. ALL STEEL TO BE ASTM A992 FOR ROLLED SECTIONS & A572 FOR PLATES HAVING A MINIMUM YIELD OF 50,000 PSI U.O.N. 2. ALL STRUCTURAL RECTANGULAR AND SQUARE HSS TO BE A500 GR. B (Fy = 46KSI) STRUCTURAL ROUND HSS TO BE A500 GR. B (Fy = 46KSI) STRUCTURAL CHANNELS TO BE A36 (Fy = 36KSI) ANCHOR BOLTS TO BE F1554 GR. 55 WELDABLE (Fy = 55KSI) STRUCTURAL ANGLES TO BE A36 (Fy = 36KSI) ALL PLATES SHALL BE ASTM A572 GR. 50 (Fy=50 ksi) U.O.N.

- 22. DESIGN OF ALL TEMPORARY STEEL COLUMN BRACING REQUIRED DURING ERECTION SHALL BE THE RESPONSIBILITY OF THE STEEL CONTRACTOR. 23. ALL STEEL BEAMS AND COLUMNS SHALL BE SPRAY FIREPROOFED U.O.N ON ARCH. DWGS. AND SPECS (WITH THE EXCEPTION OF COLUMNS & BEAMS ENCASED IN CONCRETE) SEE ARCH. DRAWINGS FOR APPROPRIATE RATING.

CAISSON NOTES:

- 1. THE DESIGN AND INSTALLATION OF CAISSONS, CAISSON CAPS, AND RELATED CONSTRUCTION IS TO CONFORM TO THE REQUIREMENTS SET FORTH IN THE NEW YORK CITY BUILDING CODE AND THE SPECIFICATIONS. 2. FOR DRILLED CAISSONS SEE PLAN.

GENERAL NOTES:

- 1. ALL WORK TO BE PERFORMED IN COMPLIANCE WITH THE NEW YORK CITY BUILDING CODE, 2008 EDITION AND ALL SUPPLEMENTS. 2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS IN THE FIELD AND BE RESPONSIBLE FOR ACCURATE COORDINATION WHERE POSSIBLE. EXISTING FRAMING DIMENSIONS WAS TAKEN FROM EXISTING DWGS. AND SHALL BE VERIFIED ON SITE. DISCREPANCIES SHALL BE REPORTED TO ARCH. AND ENGINEER BEFORE PROCEEDING.

A. EXCAVATION NOTES:

- 1. ALL FOUNDATIONS SHALL BEAR ON PILES AND CAISSONS (SEE PILE AND CAISSON NOTES) 2. WHERE EXISTING FOUNDATIONS OF ADJACENT PROPERTY IS LOWER THAN ELEVATIONS SHOWN, NEW MAT FOUNDATION IS TO BE LOWERED TO SAME ELEVATION. WHERE NEW MAT FOUNDATION IS LOWER THAN EXISTING CONTRACTOR IS TO ESTABLISH EXISTING CONDITIONS BEFORE FOUNDATIONS, COMMENCING WORK AND NOTIFY THE ENGINEER.

B. CONCRETE AND STEEL REINFORCEMENT

- 1. ALL CONCRETE SHALL BE NORMAL WEIGHT CONTROLLED CONCRETE, U.O.N., AND COMPLY WITH A.C.I. BUILDING CODE AND THE CURRENT NEW YORK CITY BUILDING CODE. 2. CONCRETE STRENGTH SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED: -FOUNDATION PIERS, PILE CAPS 8600 PSI

LEGEND:

- a. \* INDICATES ADDITIONAL WIND BARS b. [...] INDICATES THE BOTTOM OF FOUNDATION WALL ELEVATION c. <-> INDICATES THE TOP OF FOUNDATION WALL ELEVATION d. (...) INDICATES BOTTOM OF PILE CAP ELEVATION e. (XXXX) INDICATES SIZE OF PIER IN INCHES, FIRST DIMENSION SHOWN IS IN THE EAST-WEST DIRECTION.

C. CODES AND TESTS

- 1. THIS STRUCTURE HAS BEEN DESIGNED UNDER THE PROVISIONS OF THE NEW YORK CITY BUILDING CODE AS AMENDED AND A.C.I. 318. 2. ALL CONTROLLED CONCRETE SHALL COMPLY WITH THE A.C.I. 318 BUILDING CODE. APPLICATION FOR CONTROLLED CONCRETE WITH CONCRETE TESTS AND CURVES OF TESTS FOR THE PRELIMINARY DESIGN MIX PREPARED BY AN APPROVED LABORATORY MUST BE SUBMITTED TO THE ENGINEER FOR FILING WITH THE BUILDING DEPARTMENT. NO CONCRETE SHALL BE PLACED WITHOUT THE DESIGN MIX BEING APPROVED BY THE BUILDING DEPARTMENT.

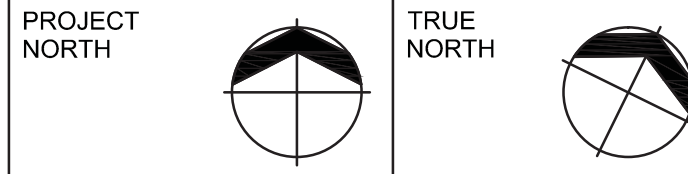
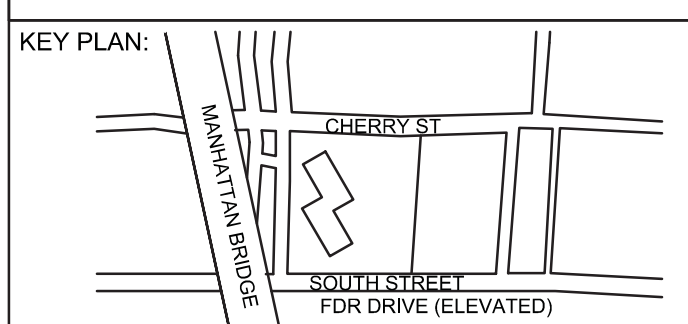
MASONRY NOTES

- 1. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR COMPLETE REQUIREMENTS FOR C.M.U. MASONRY CONSTRUCTION AND APPEARANCE. DETAILS AND NOTES SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED TO SUPPLEMENT ARCHITECTURAL REQUIREMENTS AND TO DEFINE ELEMENTS WHICH PROVIDE STRUCTURAL STRENGTH AND STABILITY. 2. DETAILS, SECTIONS, SCHEDULES, ETC. AND THESE NOTES, REPRESENT THE MINIMUM REQUIREMENTS FOR STRUCTURAL ADEQUACY. WHERE ARCHITECTURAL REQUIREMENTS DIFFER FROM STRUCTURAL, THE MORE STRINGENT SHALL BE FOLLOWED.

LOADING SCHEDULE

Table with columns: OCCUPANCY, PARTITION/FILL &/OR FINISHES (PSF), CEIL & MECH (PSF), LIVE LOAD. Rows include ROOF, MECHANICAL ROOF, ACCESSIBLE ROOF/TERRACES, LOBBIES/STAIRS/CORRIDORS, MECHANICAL ROOMS, GYM, PARKING, RETAIL, RESIDENTIAL, SWIMMING POOL DECK, SWIMMING POOL.

NOTE: 1. LOADS ARE AS SHOWN ABOVE U.O.N. ON PLAN



DEVELOPER: ETELL DEVELOPMENT COMPANY 805 Third Ave, 7th Floor New York, NY 10022 TEL: 212-712-6000 FAX: 212-712-6100

ARCHITECT OF RECORD: AAI ARCHITECTS, P.C. 14 Wall Street, 2nd Floor New York, NY 10005 TEL: 212-964-4040 FAX: 212-964-4090

INTERIOR DESIGNER: MEYER DAVIS 180 Varck St, suite 404 New York, NY 10014 TEL: 212-627-5574

LANDSCAPE DESIGNER: WEST 8 URBAN DESIGN & LANDSCAPE ARCHITECTURE P.C. 333 Hudson Street, Suite 905 New York, NY 10013 TEL: 212-285-0088 FAX: 212-285-0228

STRUCTURAL ENGINEERS: WSP 228 East 45th Street New York, NY 10017 TEL: 212-687-8888 FAX: 646-487-5501

MEP ENGINEERS: ICOR ASSOCIATES, LLC 485 C Route 1 South, Suite 209 Iselme, NJ 08830 TEL: 908-272-3300 FAX: 908-272-4440

GEOTECHNICAL ENGINEERS: LANGAN ENGINEERING & ENVIRONMENTAL SERVICES 21 Penn Plaza - 360 West 31st Street, 8th Floor New York, NY 10001 TEL: 212.479.5400 FAX: 212.479.5444

Table with columns: No., DESCRIPTION, DATE. Rows include ISSUED FOR DOT, FOUNDATION FILING, ISSUED FOR FOUNDATION BID, etc.

Discrepancies must be reported immediately to the Architect before proceeding. Only figured dimensions are to be used. Contractors must check all dimensions on site. This drawing is protected by copyright.

ALL DIMENSIONS ARE SHOWN IN IMPERIAL.

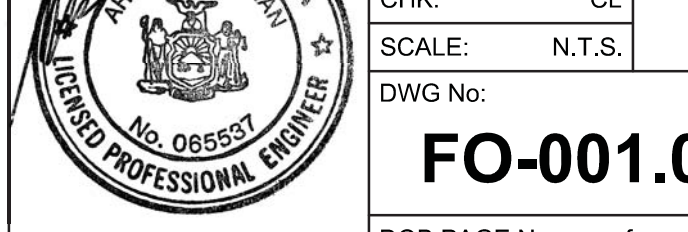
CONSULTANT: AAI ARCHITECTS, P.C.

PROJECT: 250 SOUTH STREET NEW YORK, NY

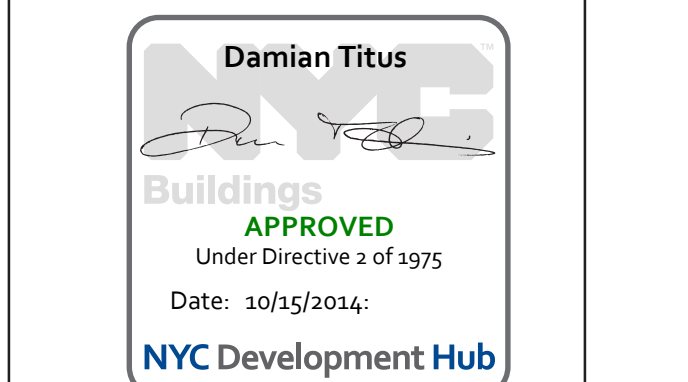
DRAWING TITLE:

GENERAL NOTES, LEGEND AND ABBREVIATIONS 1

DATE: 07/25/14 PROJECT No: 1302510 DRAWN: CADD REV: CL CHK: N.T.S. SCALE: 1/8"=1'-0" DWG No: FO-001.00



DOB PAGE No: of DOB EMPLOYEE STAMP: DOB B-SCAN:



ROCK ANCHOR GENERAL NOTES

- 1. ROCK ANCHORS SHALL BE IN CONFORMANCE WITH LATEST PTI (POST - TENSIONING INSTITUTE) RECOMMENDATIONS FOR PRESTRESSED ROCK AND SOIL ANCHORS... 10. CONTRACTOR SHALL SUBMIT ANCHOR SHOP DRAWING(S) FOR APPROVAL PRIOR TO COMMENCING ANCHOR INSTALLATION...

TABLE FOR DOUBLE CORROSION PROTECTION ROCK ANCHORS. Table with columns: THREADED BAR DIAMETER, DESIGN LOAD (KIPS), ANCHOR PLATE (Fy=50 ksf), MINIMUM DRILL HOLE DIAMETER, MINIMUM BOND LENGTH, MINIMUM EMBEDMENT IN FOOTING, MAXIMUM OFFSET, MINIMUM EDGE DISTANCE.

NOTES FOR CORROSION PROTECTION TABLE:

- 1. MINIMUM DRILL HOLE DIAMETER ASSUMES COUPLERS ARE NOT REQUIRED... 5. MINIMUM BOND LENGTH INTO NYCBC CLASS 1B OR BETTER ROCK.

SUPERSTRUCTURE CONCRETE NOTES

A. CONCRETE

- 1. ALL CONCRETE SHALL BE NORMAL WEIGHT CONTROLLED CONCRETE... 7. ALL MEMBERS IN THE FLOOR SYSTEM INCLUDING BEAMS, BRACKETS, COLUMN CAPITALS AND HAUNCHES SHALL BE PLACED MONOLITHICALLY...

SHOP DRAWINGS SHOWING COMPOSITE LAYOUT OF ALL PENETRATIONS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

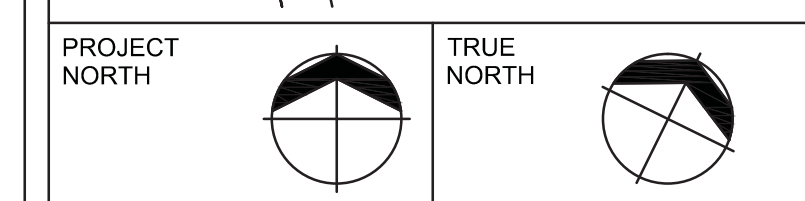
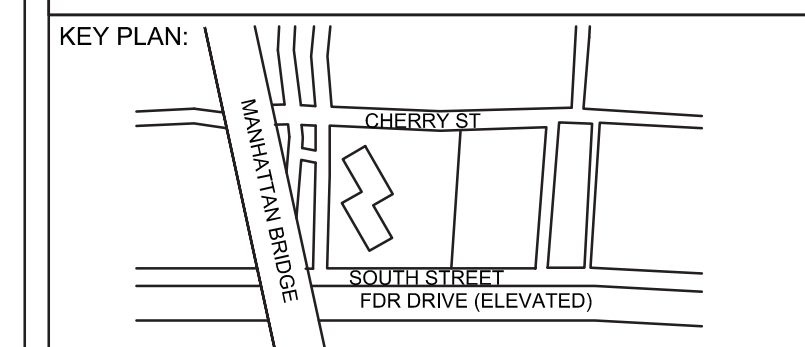
- 5. ALL PLUMBING AND ELECTRICAL SLOTS SHALL BE FILLED WITH CONCRETE... 11. NO DEVIATION FROM THE STRUCTURAL PLANS SHALL BE PERMITTED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.

B. CODES AND TESTS

- 1. THIS STRUCTURE HAS BEEN DESIGNED UNDER THE PROVISIONS OF THE NEW YORK CITY BUILDING CODE AS AMENDED AND A.C.I. 318... 6. ALL STRUCTURAL STEEL (INTELS, DUNNAGE BEAMS, ETC.) SHALL CONFORM TO A.S.T.M. A-36, U.O.N.

C. SEISMIC AND WIND CRITERIA

- 1. THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE LATEST NEW YORK CITY BUILDING CODE (NYCBC 2008)... 3. EARTHQUAKE DESIGN DATA: AS PER GEOTECHNICAL REPORT BY LANGAN DATED JANUARY 2, 2014...



DEVELOPER: EXTELL DEVELOPMENT COMPANY, 805 Third Ave, 7th Floor, New York, NY 10022

ARCHITECT OF RECORD: AAI ARCHITECTS, P.C., 14 Wall Street, 2nd Floor, New York, NY 10005

INTERIOR DESIGNER: MEYER DAVIS, 180 Varick St, suite 404, New York, NY 10014

LANDSCAPE DESIGNER: WEST 8 URBAN DESIGN & LANDSCAPE ARCHITECTURE P.C., 333 Hudson Street, Suite 905, New York, NY 10013

STRUCTURAL ENGINEERS: WSP, 228 East 45th Street, New York, NY 10017

MEP ENGINEERS: ICOR ASSOCIATES, LLC, 485 C Route 1 South, Suite 200, Beltsville, NJ 08830

GEOTECHNICAL ENGINEERS: LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, 21 Penn Plaza - 360 West 31st Street, 8th Floor, New York, NY 10001

Table with columns: No., DESCRIPTION, DATE. Contains revision history from 1 to 6.

Discrepancies must be reported immediately to the Architect before proceeding. Only figured dimensions are to be used.

CONSULTANT: AAI ARCHITECTS, P.C. logo and name.

PROJECT: 250 SOUTH STREET NEW YORK, NY

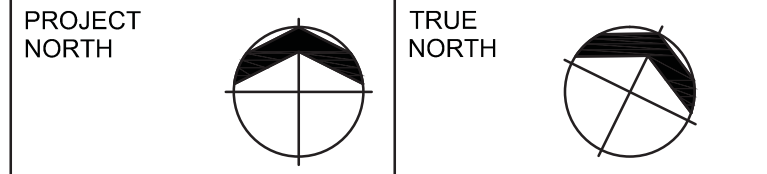
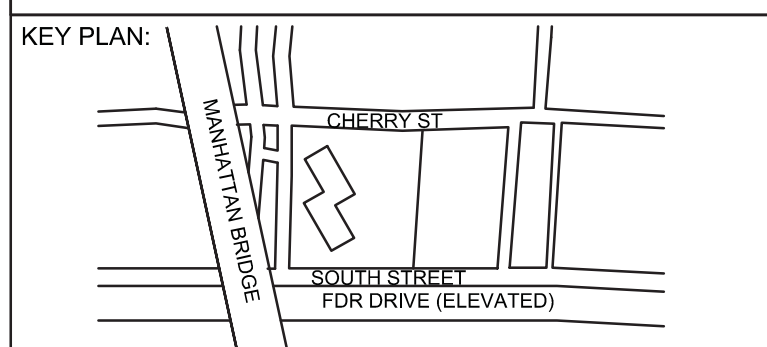
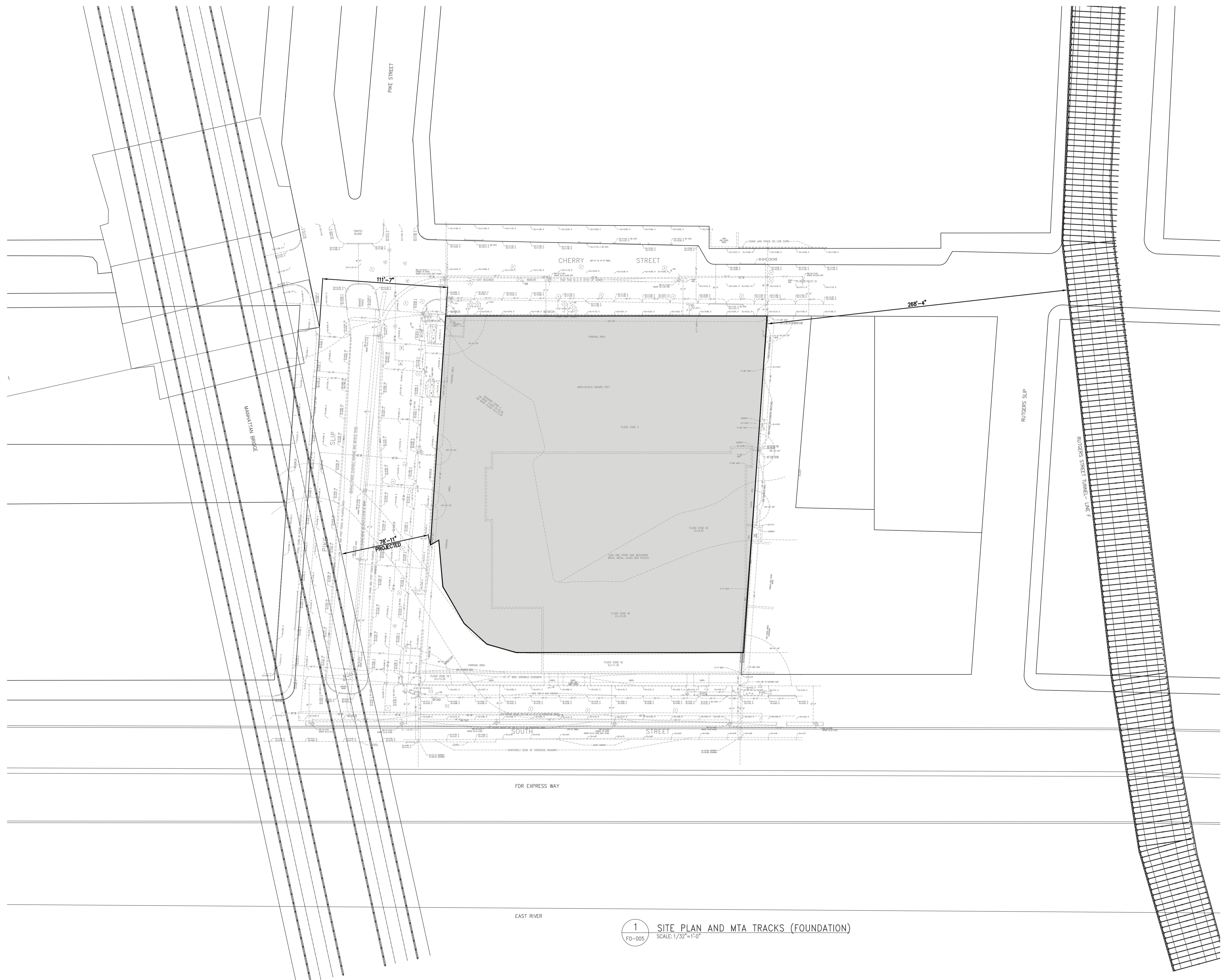
DRAWING TITLE: GENERAL NOTES, LEGEND AND ABBREVIATIONS 2

SEAL & SIGNATURE, DATE, PROJECT No., DRAWN, CHK, SCALE, DWG No., FO-002.00

DOB EMPLOYEE STAMP, DOB B-SCAN:

Approval stamp: Damian Titus, Buildings APPROVED Under Directive 2 of 1975, Date: 10/15/2014, NYC Development Hub.

30" x 42" PANEL SHEET SIZE



DEVELOPER:  
**EXTELL DEVELOPMENT COMPANY**  
 805 Third Ave, 7th Floor  
 New York, NY 10022  
 TEL: 212-712-6000 FAX: 212-712-6100

ARCHITECT OF RECORD:  
**AAI ARCHITECTS, P.C.**  
 14 Wall Street, 2nd Floor  
 New York, NY 10005  
 TEL: 212-964-4040 FAX: 212-964-4090

INTERIOR DESIGNER:  
**MEYER DAVIS**  
 180 Varick St, suite 404  
 New York, NY 10014  
 TEL: 212-627-8574

LANDSCAPE DESIGNER:  
**WEST 8 URBAN DESIGN & LANDSCAPE ARCHITECTURE P.C.**  
 333 Hudson Street, Suite 905  
 New York, NY 10013  
 TEL: 212-285-0088 FAX: 212-285-0228

STRUCTURAL ENGINEERS:  
**WSP**  
 228 East 45th Street  
 New York, NY 10017  
 TEL: 212-687-8888 FAX: 646-487-5501

MEP ENGINEERS:  
**ICOR ASSOCIATES, LLC**  
 485 C Route 1 South, Suite 200  
 Iselin, NJ 08830  
 TEL: 908-272-3300 FAX: 908-272-4440

GEOTECHNICAL ENGINEERS:  
**LANGAN ENGINEERING & ENVIRONMENTAL SERVICES**  
 21 Penn Plaza - 360 West 31st Street, 8th Floor  
 New York, NY 10001  
 TEL: 212.479.5400 FAX: 212.479.5444

No.	DESCRIPTION:	DATE:
1	ISSUED FOR DOT	04-28-14
2	FOUNDATION FILING	06-10-14
3	ISSUED FOR FOUNDATION BID	07-25-14
4	SOS DO	08-01-14
5	ISSUED FOR DOT	08-07-14
6	ISSUED FOR FOUNDATION BID	08-29-14

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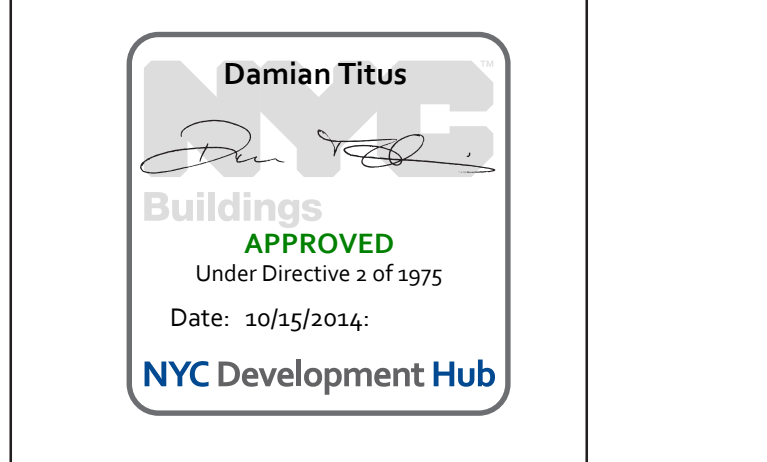


PROJECT:  
**250 SOUTH STREET  
 NEW YORK, NY**

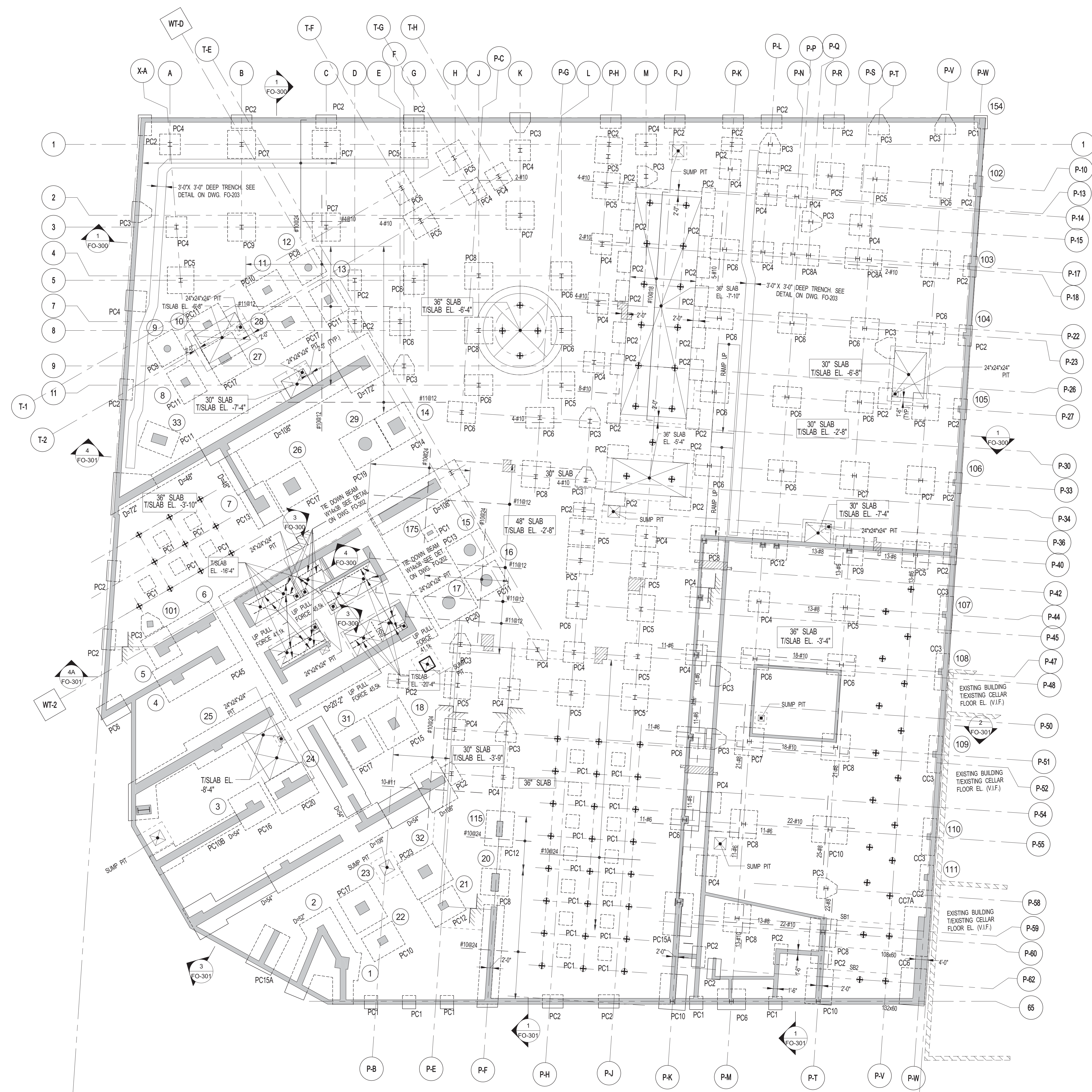
DRAWING TITLE:  
**SITE PLAN AND MTA TRACKS  
 (FOUNDATION)**

SEAL & SIGNATURE	DATE: 07/25/14
	PROJECT No: 1302510
	DRAWN: CADD REV:
	CHK: CL
	SCALE: 1/32" = 1'-0"
DWG No: <b>FO-005.00</b>	
DOB PAGE No: of	

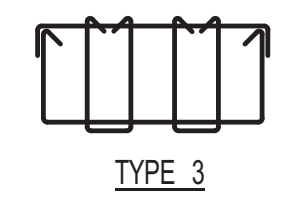
DOB EMPLOYEE STAMP: of DOB B-SCAN:



1 SITE PLAN AND MTA TRACKS (FOUNDATION)  
 FO-005 SCALE: 1/32" = 1'-0"



BEAM MARK	SIZE		REINFORCEMENT		TOP ADD'L BARS AT SUPPORT	STIRRUPS			REMARKS
	WIDTH	DEPTH	BOTTOM CONTINUOUS	TOP CONTINUOUS		TYPE	SIZE	SPACING (IN)	
SB1	108	60	15-#11	30-#11 (2 LAYERS)	3	#4	12		
SB2	132	60	15-#11	26-#11	3	#4	12		



**1 FOUNDATION PLAN**  
FO-100 SCALE: 1/16" = 1'-0"

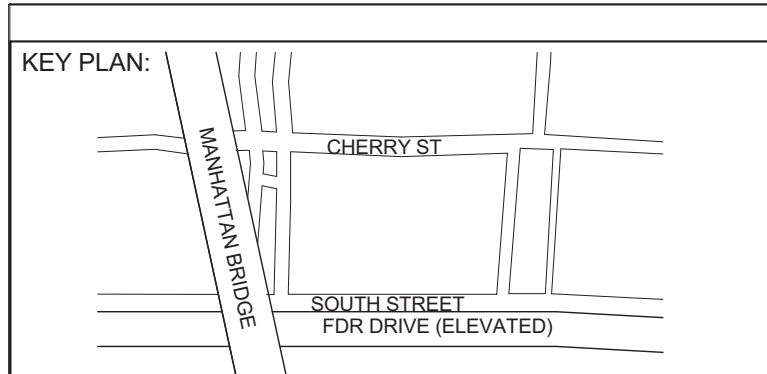
NOTES:

- TOP OF PRESSURE SLAB ELEVATION TO BE 2'-0" U.O.N. THIS ON PLAN.
- PRESSURE SLAB TO BE 3" MIN. THICK U.O.N. THIS ON PLAN.
- REIN. TO BE: #11@12 CONT. E.W. TOP #10@12 CONT. BOTTOM
- ALL PRESSURE SLAB TO BE POURED ON WATERPROOF MEMBRANE PLACED ON 3" MUD SLAB.
- FOR GENERAL NOTES, ABBREVIATIONS AND LEGEND SEE DRAWING FO-001.
- FOR FOUNDATION TYPICAL DETAILS SEE FO-200 SERIES DRAWINGS.
- FOR FOUNDATION SECTIONS SEE FO-300 SERIES DRAWINGS.
- FOR LINK BEAM SCHEDULE AND SHEARWALL DETAILS SEE S-400 SERIES DRAWINGS.
- FOR COLUMN SIZES, REINFORCEMENT AND DETAILS SEE S-600 SERIES DRAWINGS.
- FOR SHEARWALL PILE CAPS SEE DWG. FO-101 THRU FO-104
- ALL BOTTOM REINFORCEMENT TO BE EPOXY COATED.

ELEVATIONS ARE ACTUAL AND REFER TO NAVD DATUM

LEGEND:

- PC ON PLAN INDICATES 200 TON COMPRESSION / 45 TON TENSION CAPACITY PILE, LATERAL CAPACITY 4 TON W/ 90 KIP-FT MOMENT @ PILE HEAD
- CC ON PLAN INDICATES 200 TON COMPRESSION / 45 TON TENSION CAPACITY CAISSON, LATERAL CAPACITY 2.5 TON W/ 90 KIP-FT MOMENT @ CAISSON HEAD
- ON PLAN INDICATES 1000 TON COMPRESSION / 500 TON TENSION CAPACITY CAISSON, LATERAL CAPACITY 11 TON W/ 350 KIP-FT MOMENT @ CAISSON HEAD
- CB ON PLAN INDICATES 122.5 TON TIE DOWN ANCHOR



PROJECT NORTH TRUE NORTH

DEVELOPER:  
**EXTELL DEVELOPMENT COMPANY**  
805 Third Ave, 7th Floor  
New York, NY 10022  
TEL: 212-712-6000 FAX: 212-712-6100

ARCHITECT OF RECORD:  
**AAI ARCHITECTS, P.C.**  
14 Wall Street, 2nd Floor  
New York, NY 10005  
TEL: 212-964-4040 FAX: 212-964-4090

INTERIOR DESIGNER:  
**NERI & HU DESIGN AND RESEARCH OFFICE**  
88 Yuqing Road  
Shanghai, China 200030  
TEL: 8621-6082-3777 FAX: 8621-6082-3778

LANDSCAPE DESIGNER:  
**WEST 8 URBAN DESIGN & LANDSCAPE ARCHITECTURE P.C.**  
333 Hudson Street, Suite 905  
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TEL: 212-285-0088 FAX: 212-285-0228

STRUCTURAL ENGINEERS:  
**WSP**  
228 East 45th Street  
New York, NY 10017  
TEL: 212-687-8888 FAX: 646-487-5501

MEP ENGINEERS:  
**ICOR ASSOCIATES, LLC**  
485 C Route 1 South, Suite 209  
Iselme, NJ 08830  
TEL: 908-272-3300 FAX: 908-272-4440

GEOTECHNICAL ENGINEERS:  
**LANGAN ENGINEERING & ENVIRONMENTAL SERVICES**  
21 Penn Plaza - 360 West 31st Street, 8th Floor  
New York, NY 10001  
TEL: 212-479-5400 FAX: 212-479-5444

No.	DESCRIPTION:	DATE:
1	50% SD	02-28-14
2	100%SD	04-25-14
3	ISSUED FOR DOT	04-28-14
4	ISSUED FOR FOUNDATION BID	07-25-14
5	50% DD	08-01-14
6	ISSUED FOR DOT	08-07-14
7	ISSUED FOR FOUNDATION BID	08-29-14

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CONSULTANT:  
**AAI ARCHITECTS, P.C.**

PROJECT:  
**250 SOUTH STREET  
NEW YORK, NY**

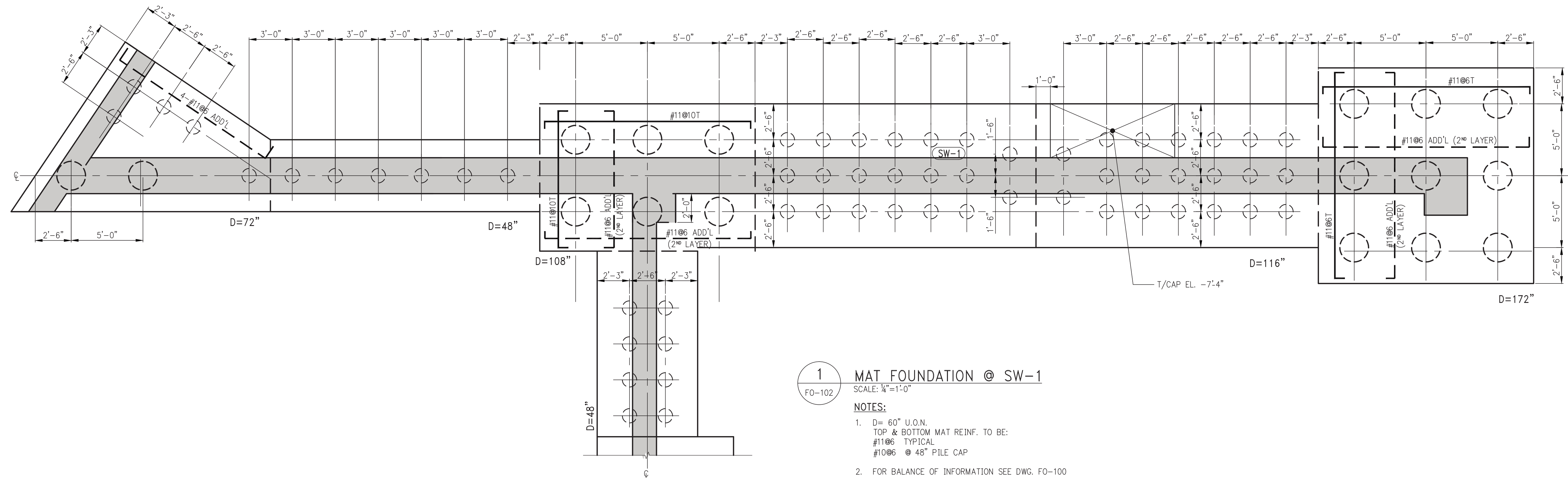
DRAWING TITLE:  
**FOUNDATION PLAN**

SEAL & SIGNATURE: [Signature] DATE: 01 NOV 2013  
PROJECT No: 1339-00  
DRAWN: TEAM REV:  
CHK: CHECKER  
SCALE: As indicated  
DWG No: **FO-100.00**

DOB EMPLOYEE STAMP: [Stamp] DOB B-SCAN: [Stamp]

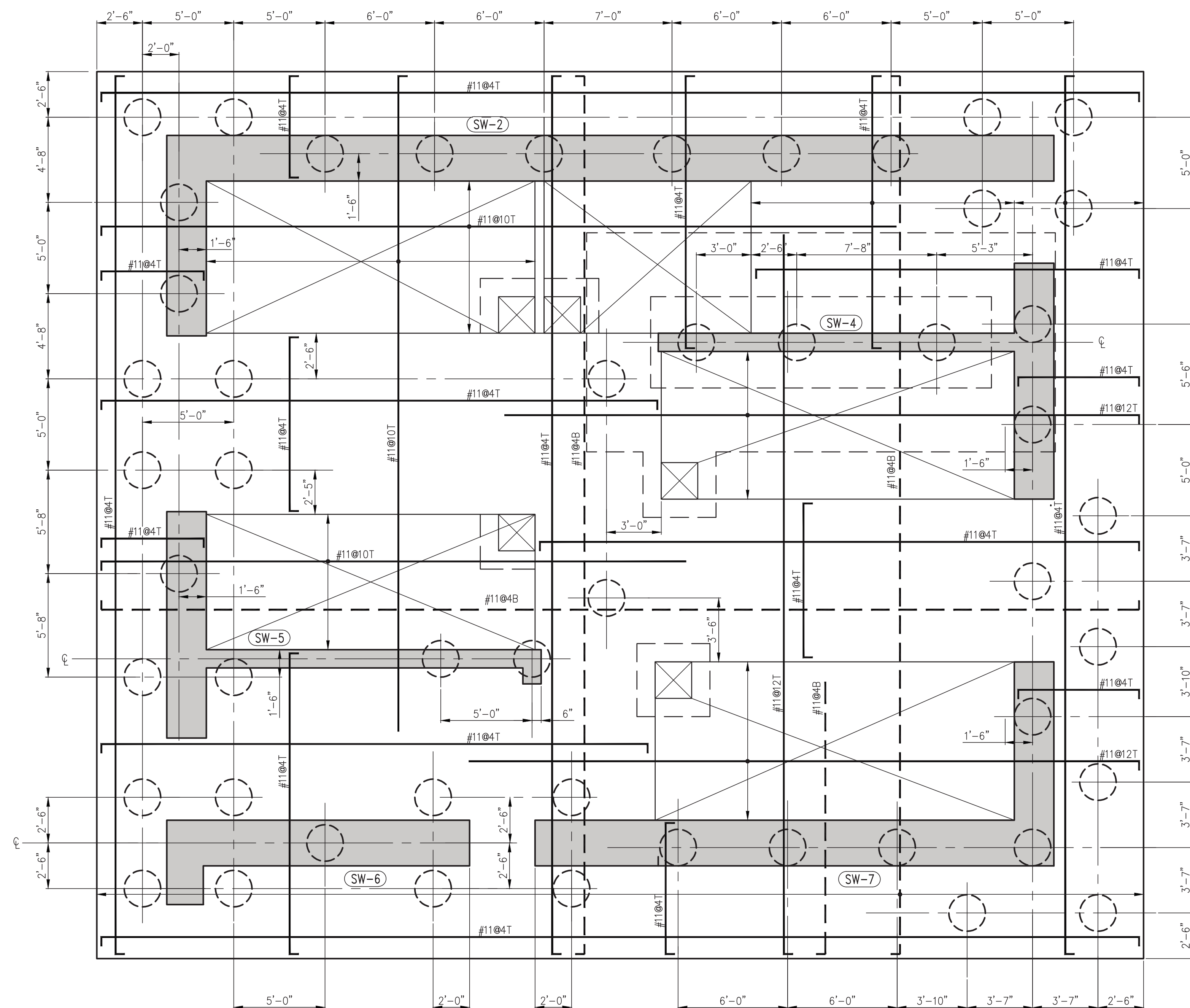
Seal of the State of New York Professional Engineer, No. 08557, Damian Titus.  
Approved Under Directive 2 of 1975.  
Date: 10/15/2014.  
NYC Development Hub





**1 MAT FOUNDATION @ SW-1**  
 SCALE: 1/4"=1'-0"

- NOTES:  
 1. D = 60" U.O.N.  
 TOP & BOTTOM MAT REINF. TO BE:  
 #1106 TYPICAL  
 #1086 @ 48" PILE CAP  
 2. FOR BALANCE OF INFORMATION SEE DWG. FO-100

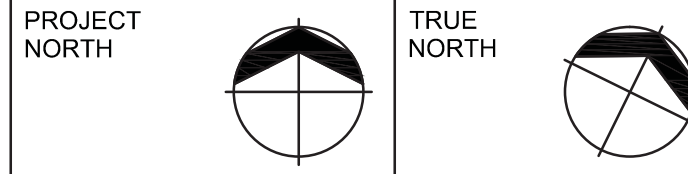
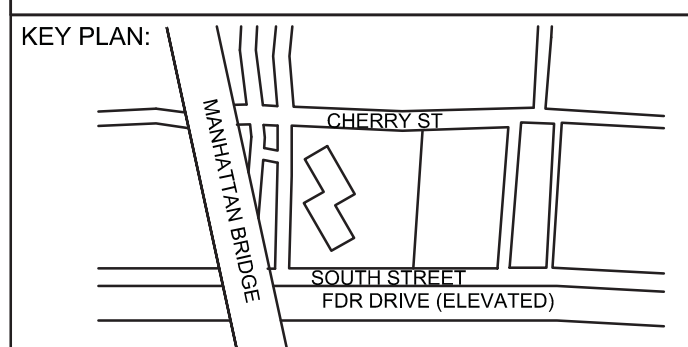
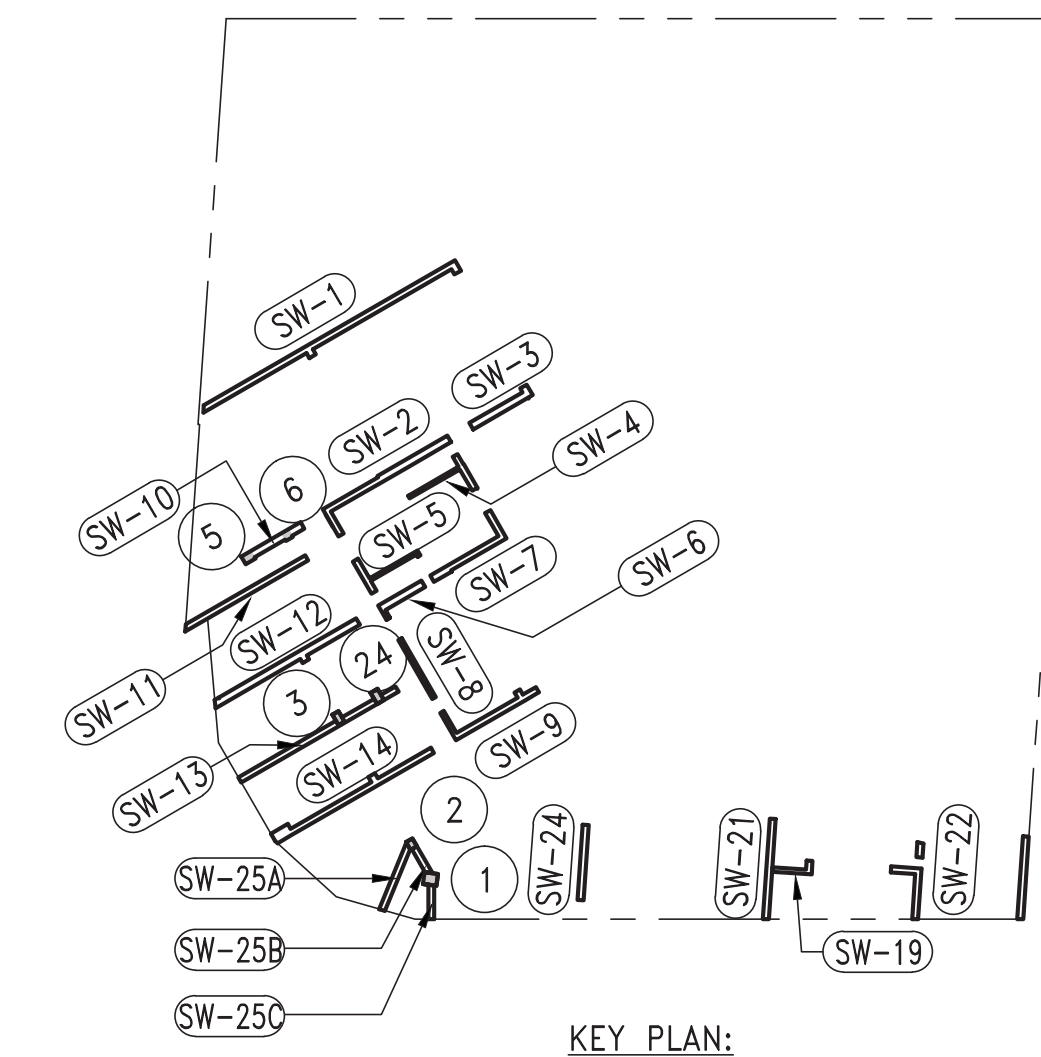


**2 MAT FOUNDATION @ SW-2, SW-4, SW-5, SW-6 AND SW-7**  
 SCALE: 1/4"=1'-0"

- NOTES:  
 1. D = 20'-2" U.O.N.  
 2. FOR BALANCE OF INFORMATION SEE DWG. FO-100

LEGEND:

- INDICATE 1500 TON CAISSON
- INDICATE 200 TON PILE



DEVELOPER:  
**EXTELL DEVELOPMENT COMPANY**  
 805 Third Ave, 7th Floor  
 New York, NY 10022  
 TEL: 212-712-6000 FAX: 212-712-6100

ARCHITECT OF RECORD:  
**AAI ARCHITECTS, P.C.**  
 14 Wall Street, 2nd Floor  
 New York, NY 10005  
 TEL: 212-964-4040 FAX: 212-964-4090

INTERIOR DESIGNER:  
**MEYER DAVIS**  
 180 Varick St, suite 404  
 New York, NY 10014  
 TEL: 212-627-8574

LANDSCAPE DESIGNER:  
**WEST 8 URBAN DESIGN & LANDSCAPE ARCHITECTURE P.C.**  
 333 Hudson Street, Suite 905  
 New York, NY 10013  
 TEL: 212-285-0088 FAX: 212-285-0228

STRUCTURAL ENGINEERS:  
**WSP**  
 228 East 45th Street  
 New York, NY 10017  
 TEL: 212-687-8888 FAX: 646-487-5501

MEP ENGINEERS:  
**ICOR ASSOCIATES, LLC**  
 485 C Route 1 South, Suite 200  
 Iselin, NJ 08830  
 TEL: 908-272-3300 FAX: 908-272-4440

GEOTECHNICAL ENGINEERS:  
**LANGAN ENGINEERING & ENVIRONMENTAL SERVICES**  
 21 Penn Plaza - 360 West 31st Street, 8th Floor  
 New York, NY 10001  
 TEL: 212-479-5400 FAX: 212-479-5444

No.	DESCRIPTION:	DATE:
1	ISSUED FOR DOT	04-28-14
2	FOUNDATION FILING	06-10-14
3	ISSUED FOR FOUNDATION BID	07-25-14
4	SOF. DD	08-01-14
5	ISSUED FOR DOT	08-07-14
6	ISSUED FOR FOUNDATION BID	08-29-14

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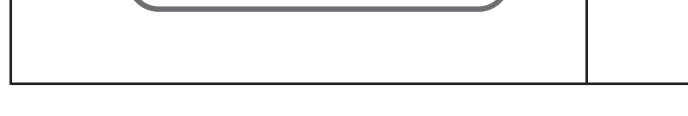
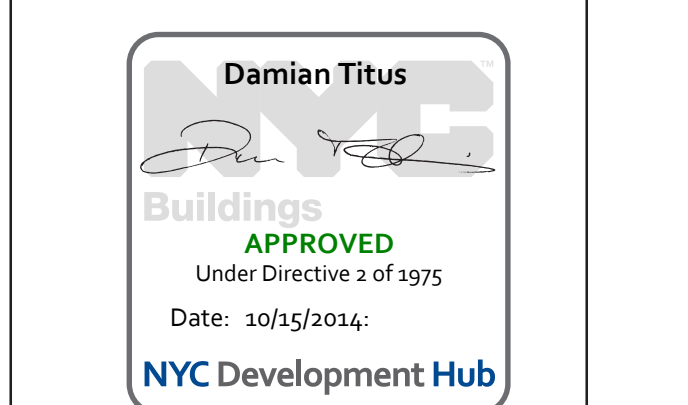
ALL DIMENSIONS ARE SHOWN IN IMPERIAL.

CONSULTANT:  
**AAI ARCHITECTS, P.C.**

PROJECT:  
**250 SOUTH STREET  
 NEW YORK, NY**

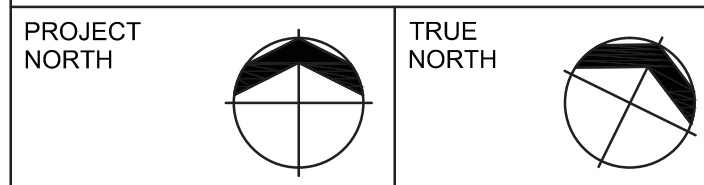
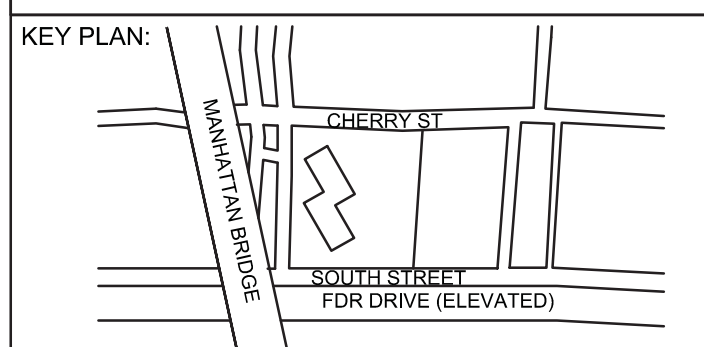
DRAWING TITLE:  
**MAT FOUNDATION 1**

SEAL & SIGNATURE: [Signature]  
 DATE: 07/25/14  
 PROJECT No: 1302510  
 DRAWN: CADD REV:  
 CHK: CL  
 SCALE: 1/4" = 1'-0"  
 DWG No: **FO-101.00**  
 DOB PAGE No: of  
 DOB EMPLOYEE STAMP: of DOB B-SCAN:









DEVELOPER:  
**EXTELL DEVELOPMENT COMPANY**  
805 Third Ave, 7th Floor  
New York, NY 10022  
TEL: 212-712-6000 FAX: 212-712-6100

ARCHITECT OF RECORD:  
**AAI ARCHITECTS, P.C.**  
14 Wall Street, 2nd Floor  
New York, NY 10005  
TEL: 212-964-4040 FAX: 212-964-4090

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180 Varick St, suite 404  
New York, NY 10014  
TEL: 212-627-8574

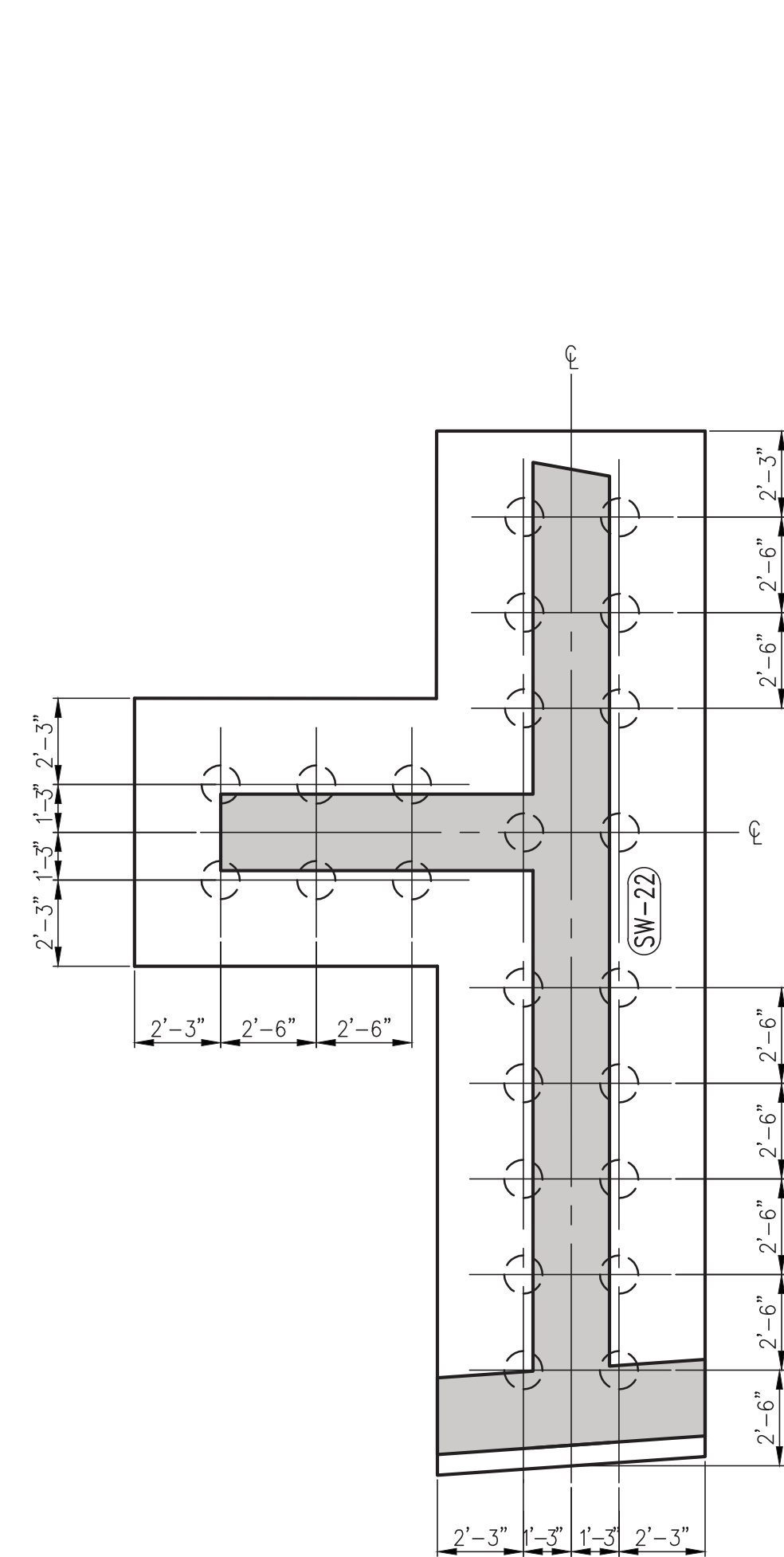
LANDSCAPE DESIGNER:  
**WEST 8 URBAN DESIGN & LANDSCAPE ARCHITECTURE P.C.**  
333 Hudson Street, Suite 905  
New York, NY 10013  
TEL: 212-285-0088 FAX: 212-285-0228

STRUCTURAL ENGINEERS:  
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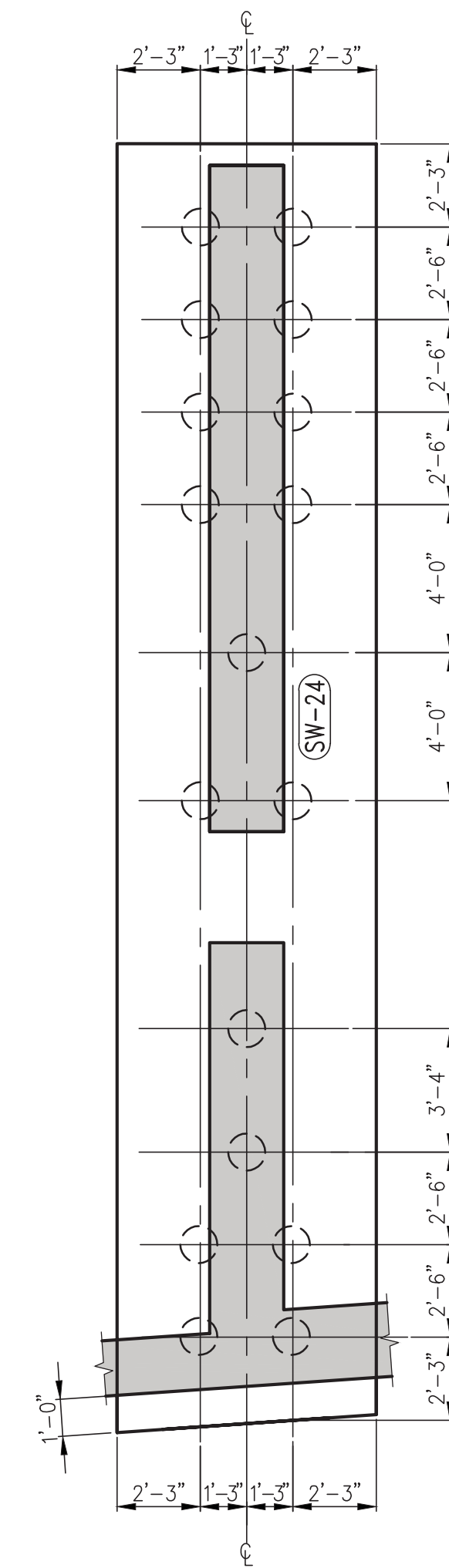
GEOTECHNICAL ENGINEERS:  
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21 Penn Plaza - 360 West 31st Street, 8th Floor  
New York, NY 10001  
TEL: 212.479.5400 FAX: 212.479.5444

No.	DESCRIPTION:	DATE:
1	ISSUED FOR DOT	04-28-14
2	FOUNDATION FILING	06-10-14
3	ISSUED FOR FOUNDATION BID	07-25-14
4	SOE ID	08-01-14
5	ISSUED FOR DOT	08-07-14
6	ISSUED FOR FOUNDATION BID	08-29-14



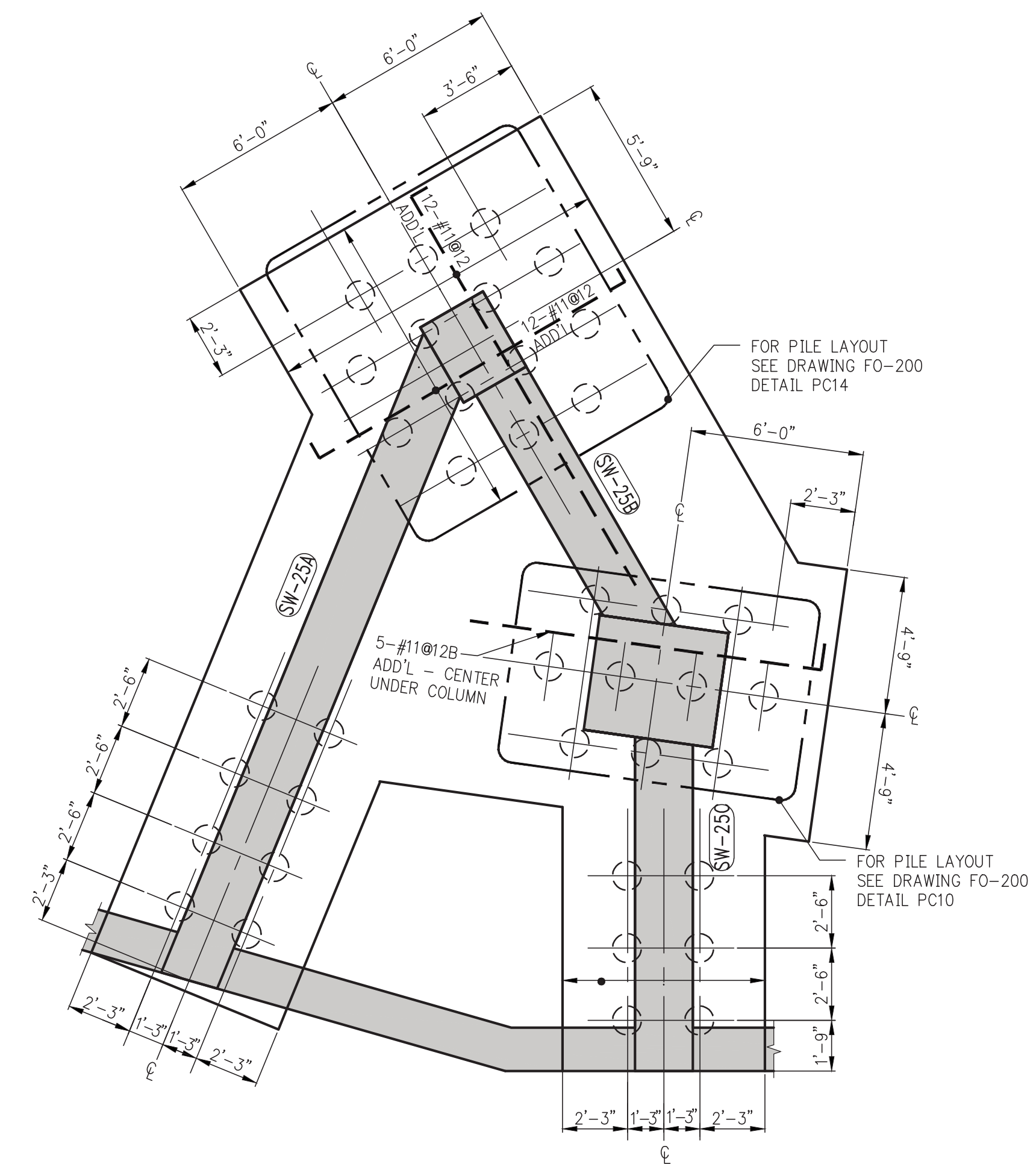
2 MAT FOUNDATION @ SW-22  
SCALE: 1/4"=1'-0"

- D= 4'-6" BOTTOM MAT REINF. TO BE #10@12 E.W.
- FOR BALANCE OF INFORMATION DWG. SEE FO-100



3 MAT FOUNDATION @ SW-24  
SCALE: 1/4"=1'-0"

- NOTES:
- D= 4'-6" BOTTOM MAT REINF. TO BE #10@12 E.W.
  - FOR BALANCE OF INFORMATION DWG. SEE FO-100

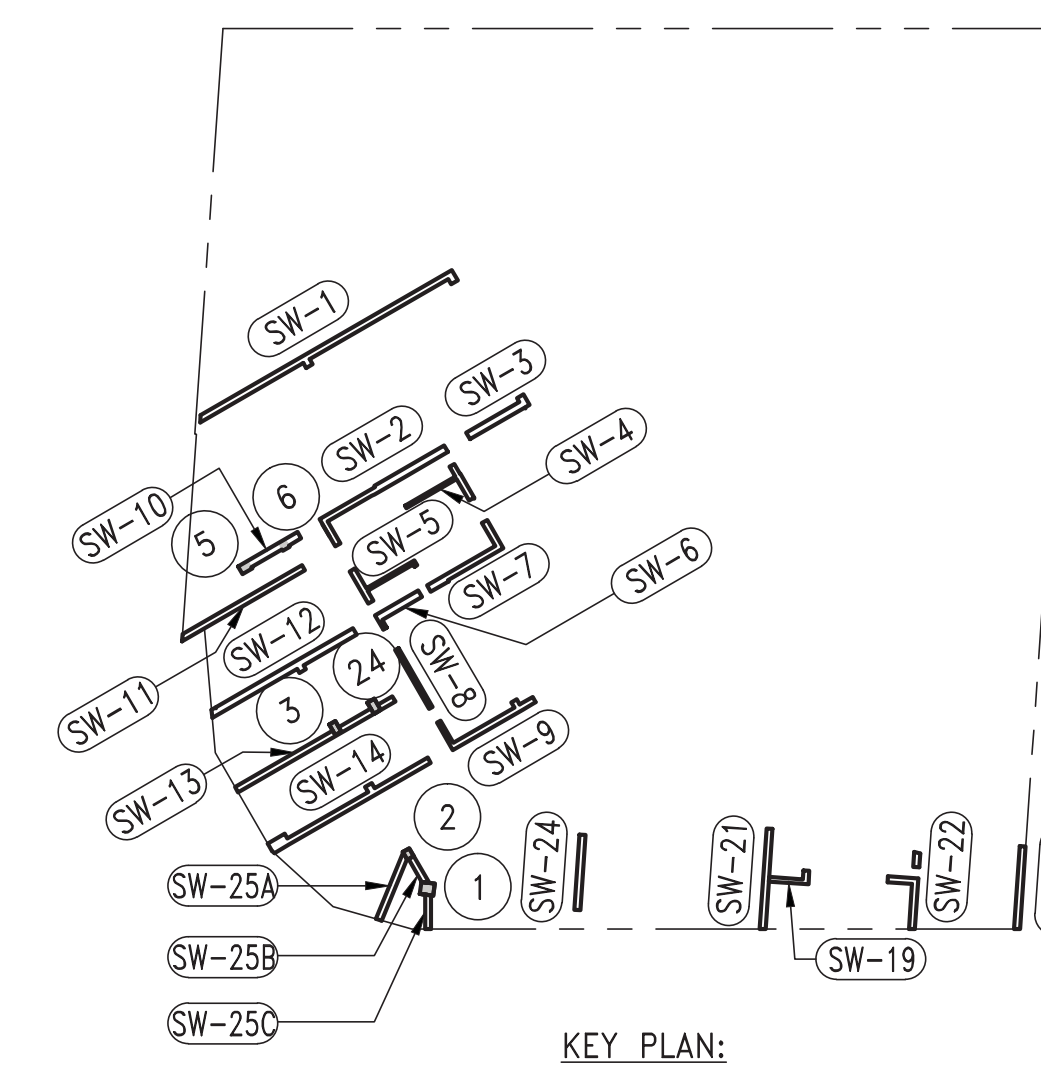


4 MAT FOUNDATION @ SW-25  
SCALE: 1/4"=1'-0"

- NOTES:
- D= 5'-2" BOTTOM MAT REINF. TO BE #11@12 E.W.
  - FOR BALANCE OF INFORMATION DWG. SEE FO-100

LEGEND:

- INDICATES 1500 TON CAISSON
- INDICATES 200 TON PILE



KEY PLAN:

Discrepancies must be reported immediately to the Architect before proceeding. Only figured dimensions are to be used. Contractors must check all dimensions on site. This drawing is protected by copyright.

ALL DIMENSIONS ARE SHOWN IN IMPERIAL.

CONSULTANT:  
**AAI ARCHITECTS, P.C.**

PROJECT:  
**250 SOUTH STREET  
NEW YORK, NY**

DRAWING TITLE:  
**MAT FOUNDATION 4**

SEAL & SIGNATURE: [Stamp]

DATE: 07/25/14

PROJECT No: 1302510

DRAWN: CADD REV:

CHK: CL

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

DWG No: **FO-104.00**

DOB PAGE No: of

DOB EMPLOYEE STAMP: [Stamp]

DOB B-SCAN: [Stamp]

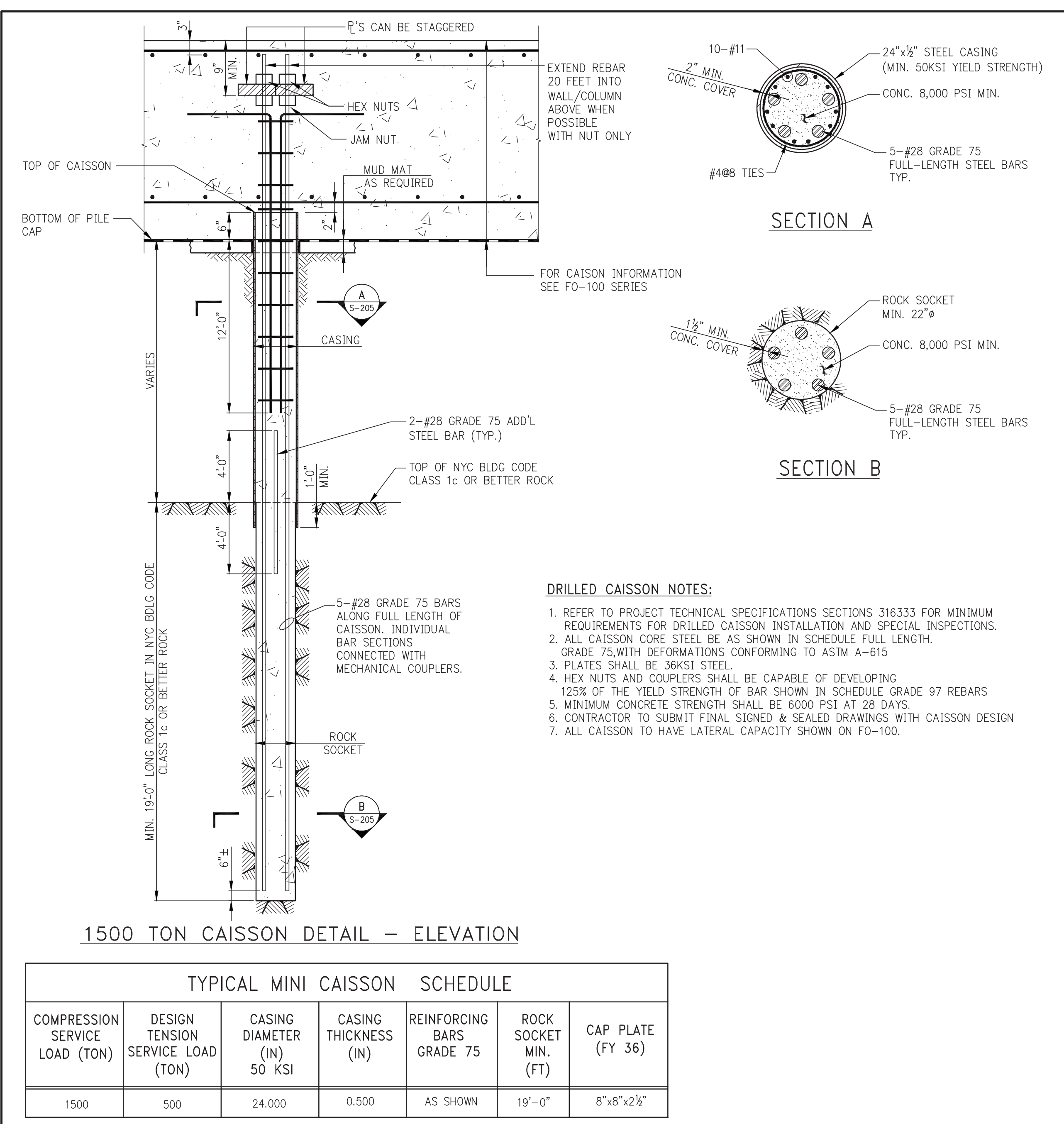
**Damian Titus**

**Buildings APPROVED**

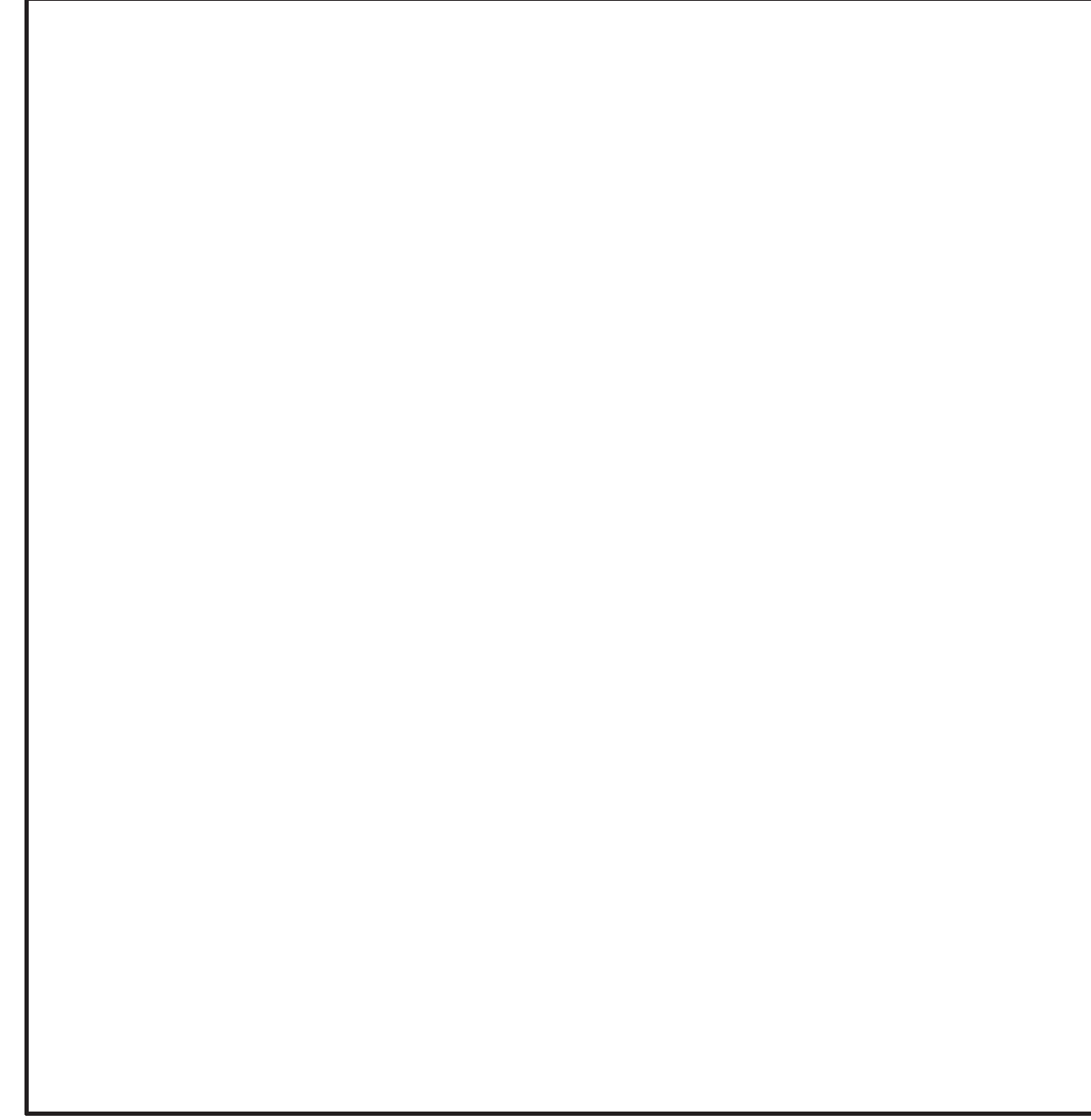
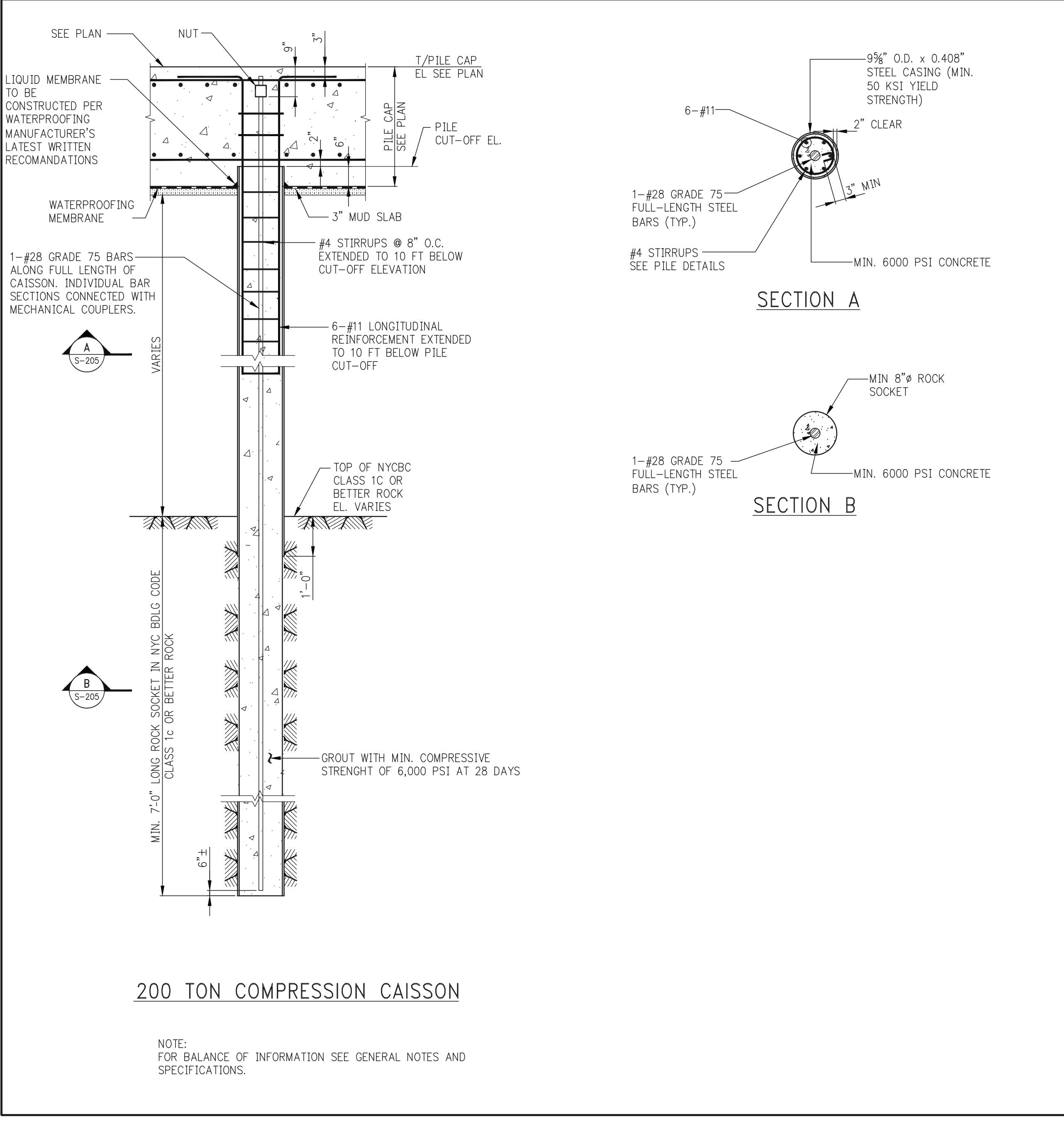
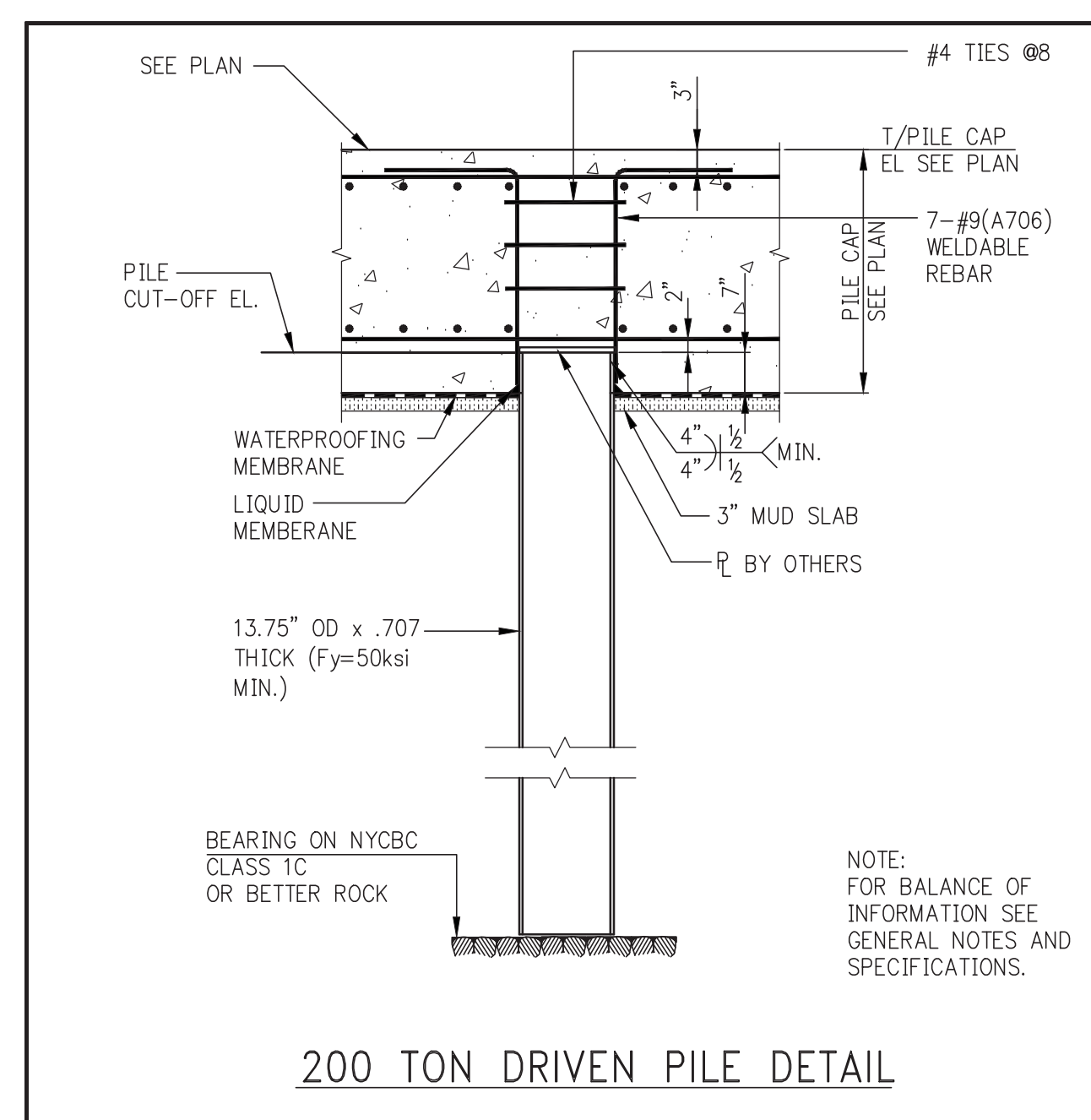
Under Directive 2 of 1975

Date: 10/15/2014

**NYC Development Hub**



- DRILLED CAISSON NOTES:**
- REFER TO PROJECT TECHNICAL SPECIFICATIONS SECTIONS 316.333 FOR MINIMUM REQUIREMENTS FOR DRILLED CAISSON INSTALLATION AND SPECIAL INSPECTIONS.
  - ALL CAISSON CORE STEEL BE AS SHOWN IN SCHEDULE FULL LENGTH, GRADE 75, WITH DEFORMATIONS CONFORMING TO ASTM A-615
  - PLATES SHALL BE 36KSI STEEL
  - HEX NUTS AND COUPLERS SHALL BE CAPABLE OF DEVELOPING 125% OF THE YIELD STRENGTH OF BAR SHOWN IN SCHEDULE GRADE 97 REBARS
  - MINIMUM CONCRETE STRENGTH SHALL BE 6000 PSI AT 28 DAYS
  - CONTRACTOR TO SUBMIT FINAL SIGNED & SEALED DRAWINGS WITH CAISSON DESIGN
  - ALL CAISSON TO HAVE LATERAL CAPACITY SHOWN ON FO-100.



**KEY PLAN:**

**PROJECT NORTH** **TRUE NORTH**

**DEVELOPER:**  
**EXTELL DEVELOPMENT COMPANY**  
 805 Third Ave, 7th Floor  
 New York, NY 10022  
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**INTERIOR DESIGNER:**  
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**LANDSCAPE DESIGNER:**  
**WEST 8 URBAN DESIGN & LANDSCAPE ARCHITECTURE P.C.**  
 333 Hudson Street, Suite 905  
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 TEL: 212-285-0088 FAX: 212-285-0228

**STRUCTURAL ENGINEERS:**  
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**MEP ENGINEERS:**  
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**GEOTECHNICAL ENGINEERS:**  
**LANGAN ENGINEERING & ENVIRONMENTAL SERVICES**  
 21 Penn Plaza - 360 West 31st Street, 8th Floor  
 New York, NY 10001  
 TEL: 212-479-5400 FAX: 212-479-5444

No.	DESCRIPTION:	DATE:
1	ISSUED FOR DOT	04-28-14
2	FOUNDATION FILING	06-10-14
3	ISSUED FOR FOUNDATION BID	07-25-14
4	SOB DD	08-01-14
5	ISSUED FOR DOT	08-07-14
6	ISSUED FOR COORDINATION	08-15-14
7	ISSUED FOR FOUNDATION BID	08-29-14

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**CONSULTANT:**

**PROJECT:**  
**250 SOUTH STREET**  
**NEW YORK, NY**

**DRAWING TITLE:**  
**TYPICAL FOUNDATION DETAILS 1**

<b>SEAL &amp; SIGNATURE:</b>	<b>DATE:</b> 07/25/14
	<b>PROJECT No:</b> 1302610
	<b>DRAWN:</b> CADD <b>REV:</b>
	<b>SCALE:</b> N.T.S.

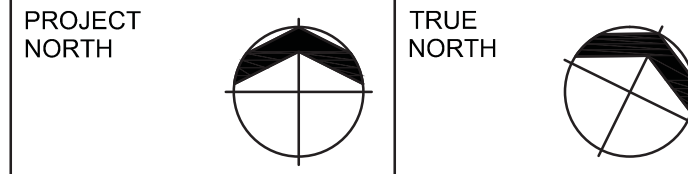
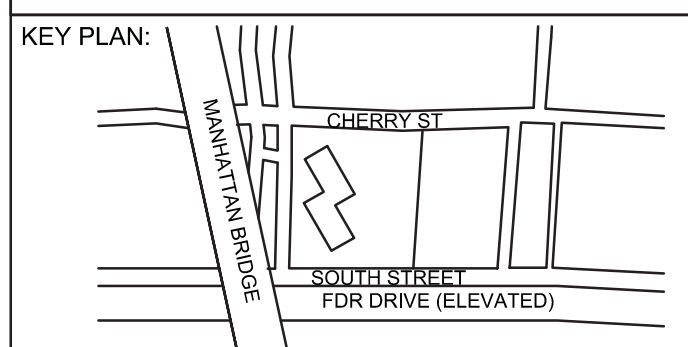
**DWG No:** **FO-200.00**

**DOB PAGE No:** of

**DOB EMPLOYEE STAMP:** of **DOB B-SCAN:**

**Damian Titus**  
 Buildings **APPROVED**  
 Under Directive 2 of 1975  
 Date: 10/15/2014  
 NYC Development Hub

CAISSON AND PILE PENETRATION DETAILS TO BE CONSTRUCTED PER WATERPROOFING MANUFACTURER'S LATEST WRITTEN RECOMMENDATIONS.



DEVELOPER:  
**EXTELL DEVELOPMENT COMPANY**  
 805 Third Ave, 7th Floor  
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 TEL: 212-712-6000 FAX: 212-712-6100

ARCHITECT OF RECORD:  
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INTERIOR DESIGNER:  
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MEP ENGINEERS:  
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No.	DESCRIPTION:	DATE:
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2	100% SD	04-25-14
3	ISSUED FOR DOT	04-28-14
4	FOUNDATION FILING	06-10-14
5	ISSUED FOR FOUNDATION BID	07-25-14
6	50% DD	08-01-14
7	ISSUED FOR DOT	08-07-14
8	ISSUED FOR COORDINATION	08-15-14
9	ISSUED FOR FOUNDATION BID	08-29-14

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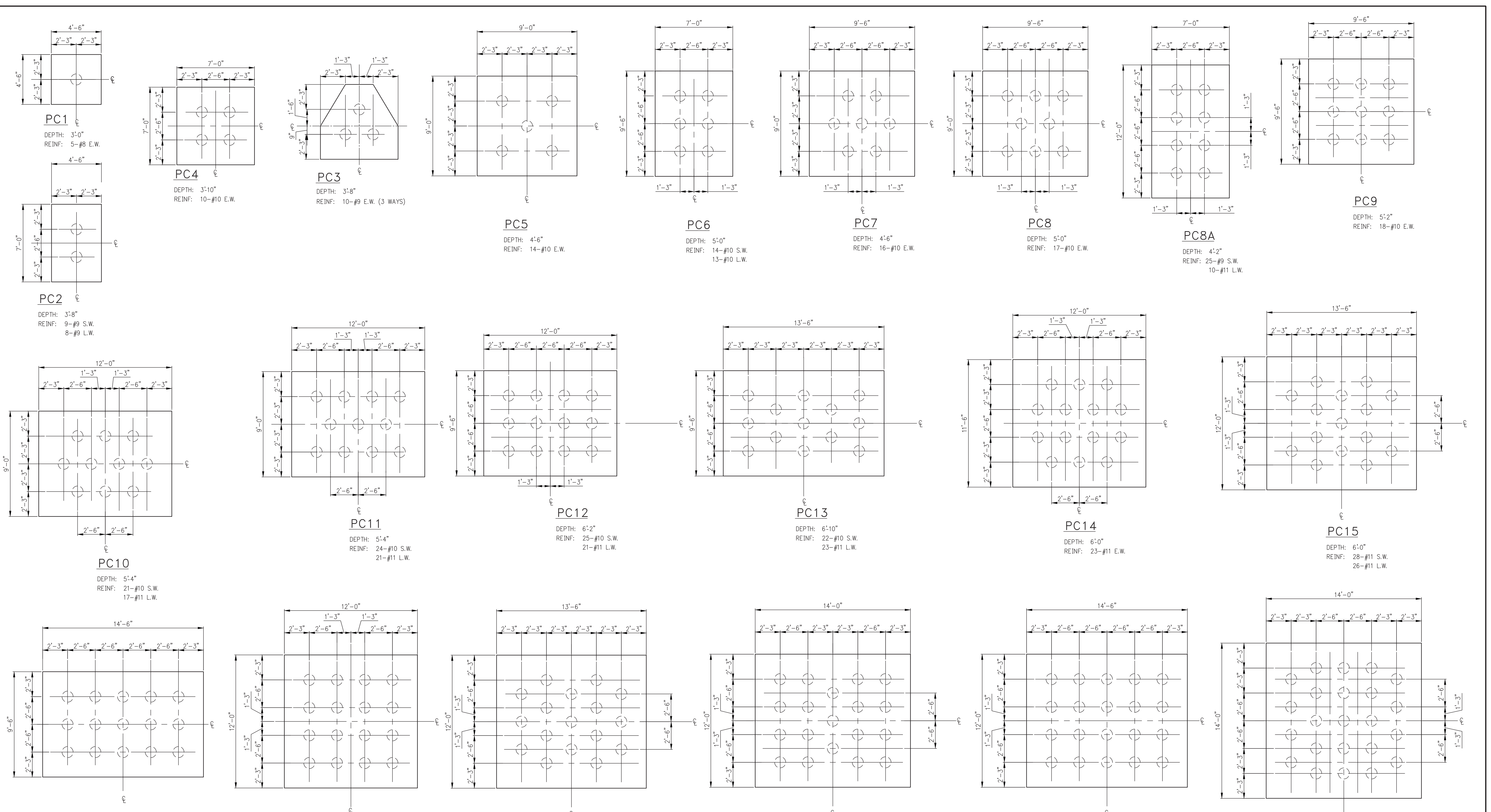
CONSULTANT:

PROJECT:  
**250 SOUTH STREET  
 NEW YORK, NY**

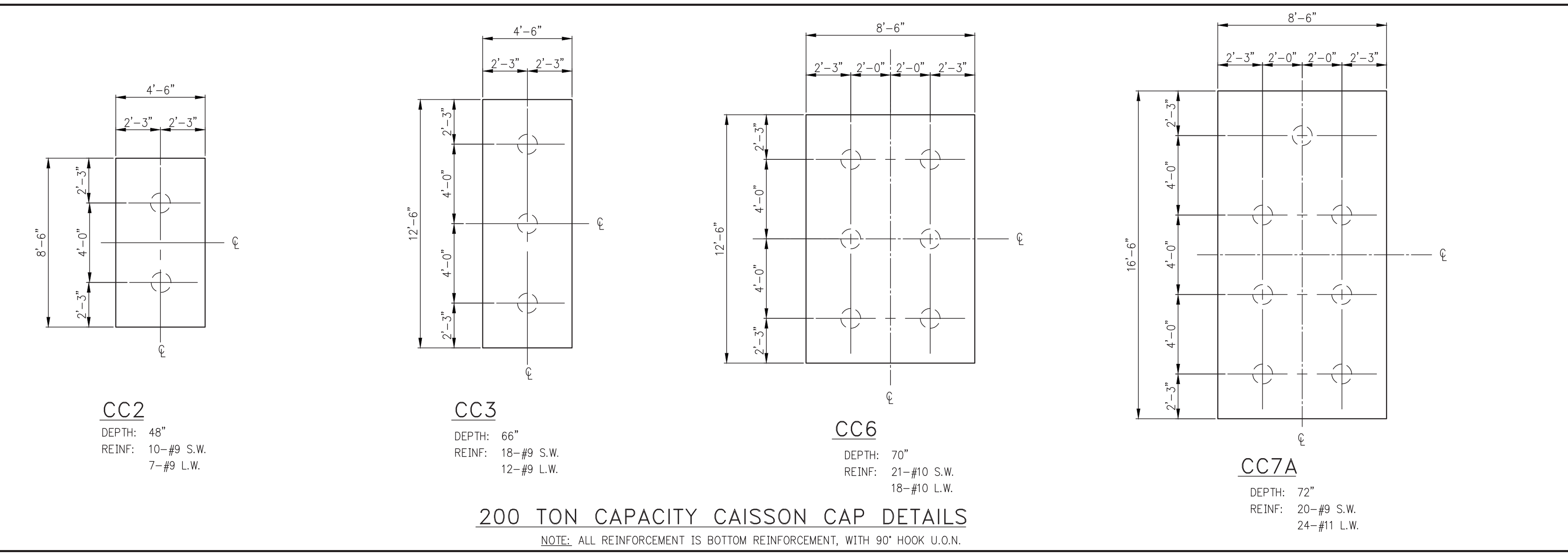
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**TYPICAL FOUNDATION  
 DETAILS 2**

SEAL & SIGNATURE: DATE: 07/25/14  
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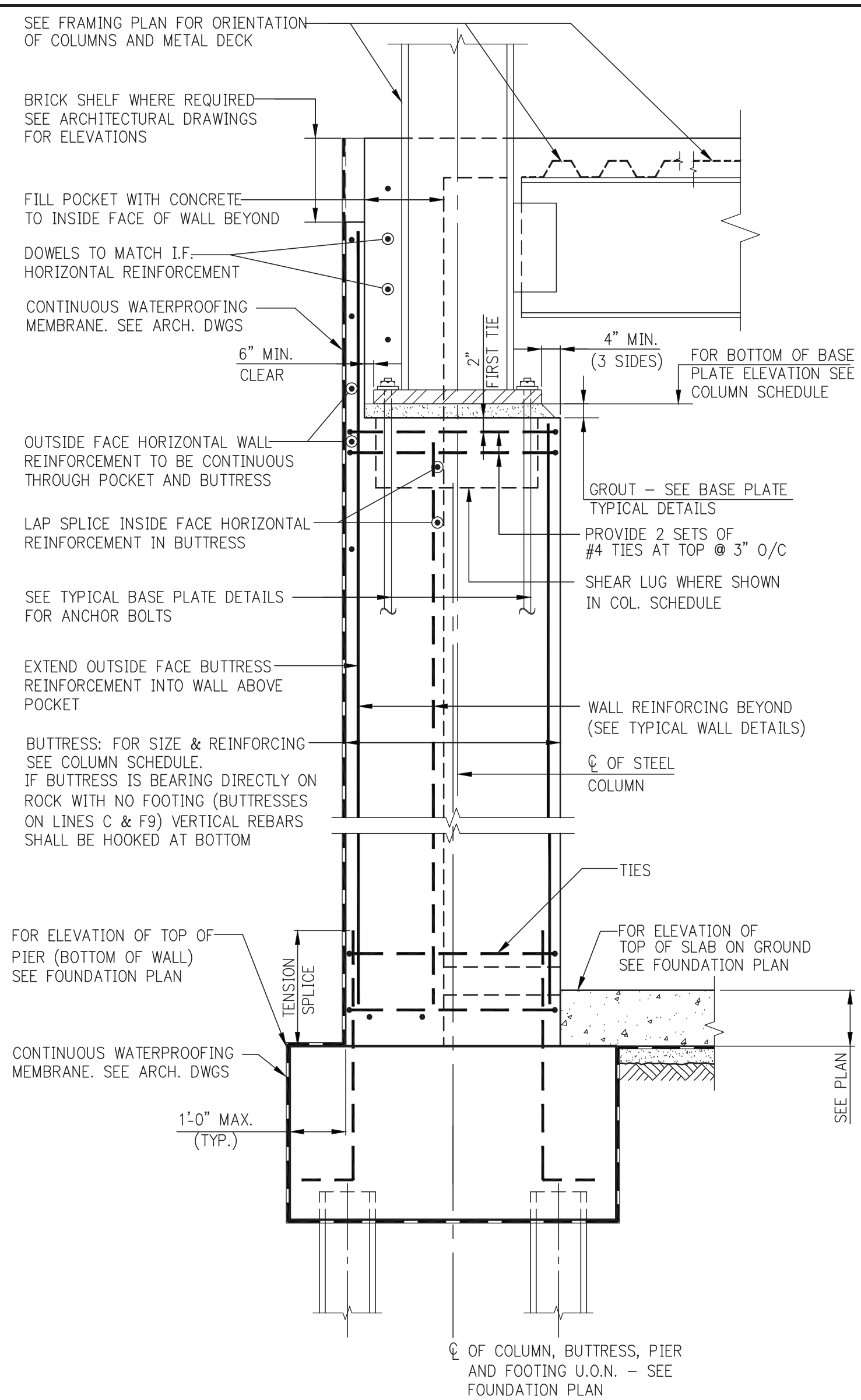
DOB EMPLOYEE STAMP:   
 DOB B-SCAN:  
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**200 TON CAPACITY PILE CAP DETAILS**  
 NOTE:  
 1. ALL REINFORCEMENT IS BOTTOM REINFORCEMENT, WITH 90° HOOK U.O.N.  
 2. FOR DETAIL OF PC61 SEE FO-101 SERIES.

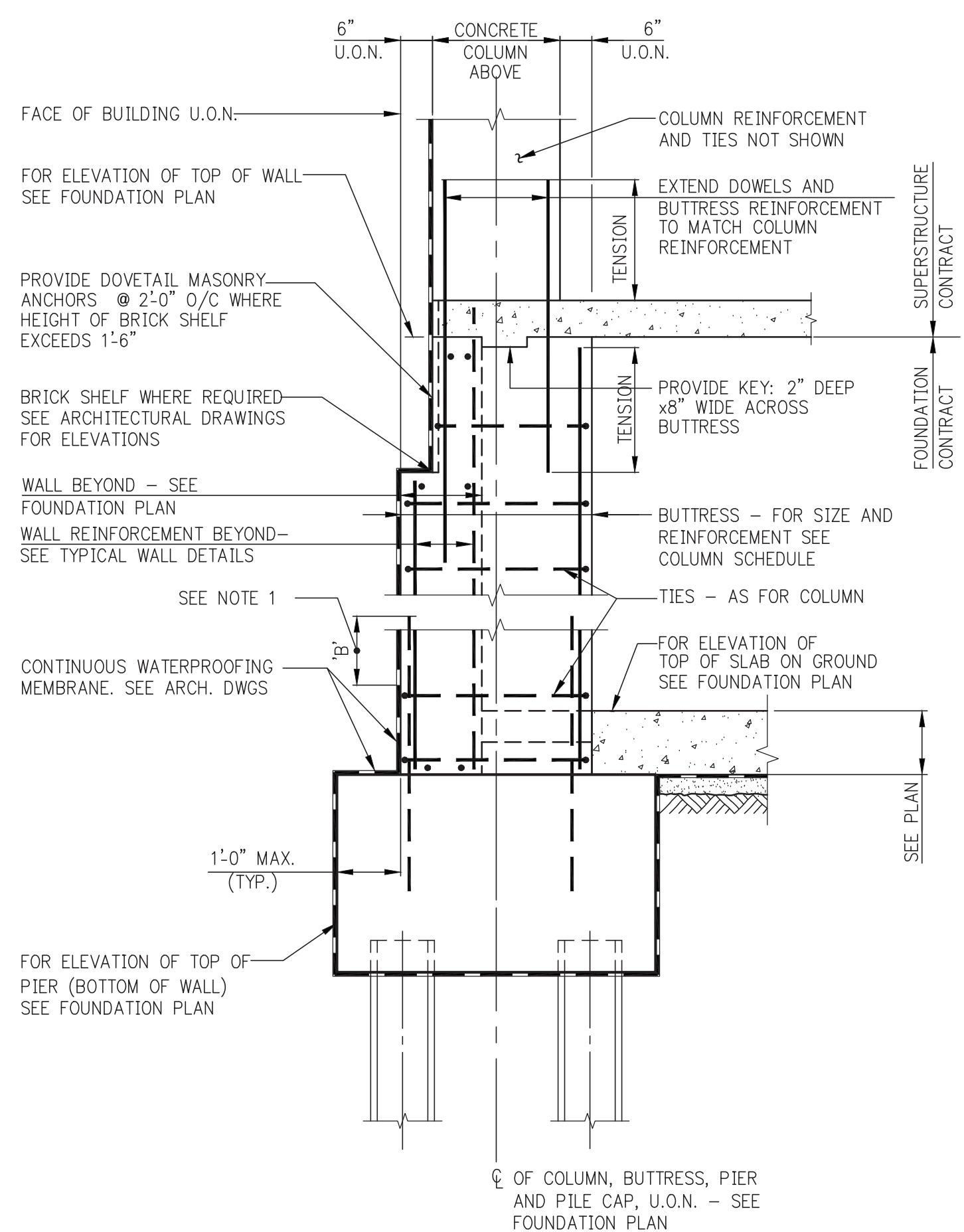


**200 TON CAPACITY CAISSON CAP DETAILS**  
 NOTE: ALL REINFORCEMENT IS BOTTOM REINFORCEMENT, WITH 90° HOOK U.O.N.



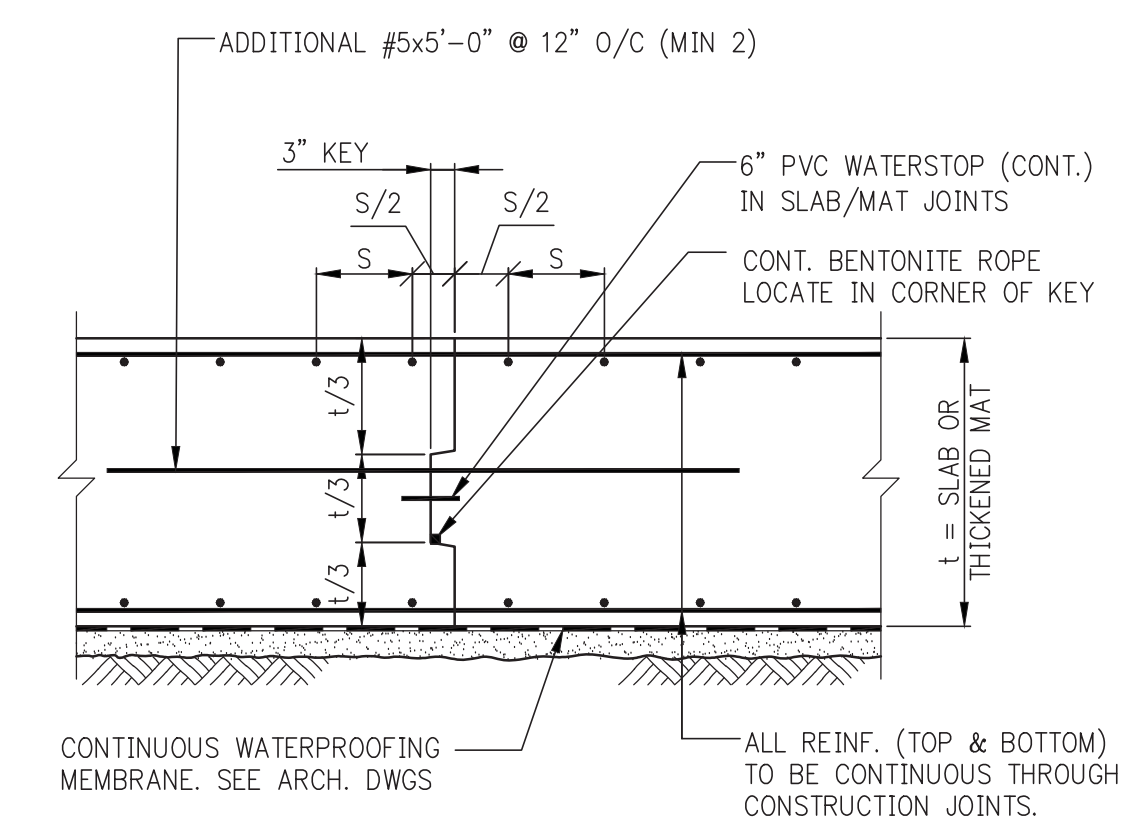
**BUTTRESS AT STEEL COLUMN**

- NOTES:**
1. FOR FOOTING REINFORCING SEE FOOTING SCHEDULE.
  2. FOR ADDITIONAL INFORMATION SEE TYPICAL DETAIL AT PERIMETER FOOTING AND TYPICAL FOUNDATION WALL DETAIL.

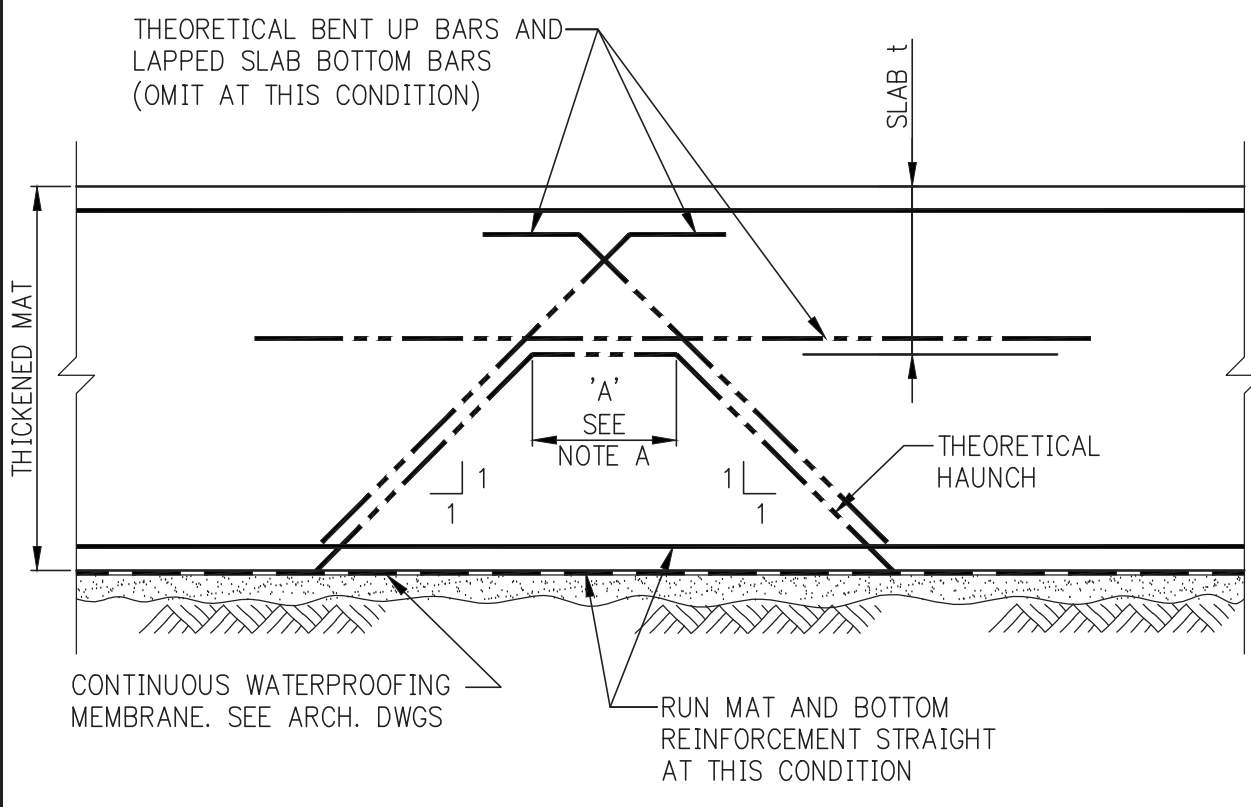


- NOTE:**
1. WHEN SLAB ON GROUND IS POURED BEFORE COLUMN, INCREASE LENGTH OF DOWELS BY DIMENSION 'B'. IN ADDITION, IF COLUMN CONCRETE STRENGTH IS GREATER THAN 1.4 TIMES SLAB CONCRETE STRENGTH, THE SLAB CONCRETE STRENGTH MUST BE INCREASED LOCALLY TO MATCH COLUMN CONCRETE STRENGTH FOR A DISTANCE OF 2 FEET IN ALL DIRECTIONS FROM COLUMN FACES.

**BUTTRESS AT CONCRETE COLUMN**

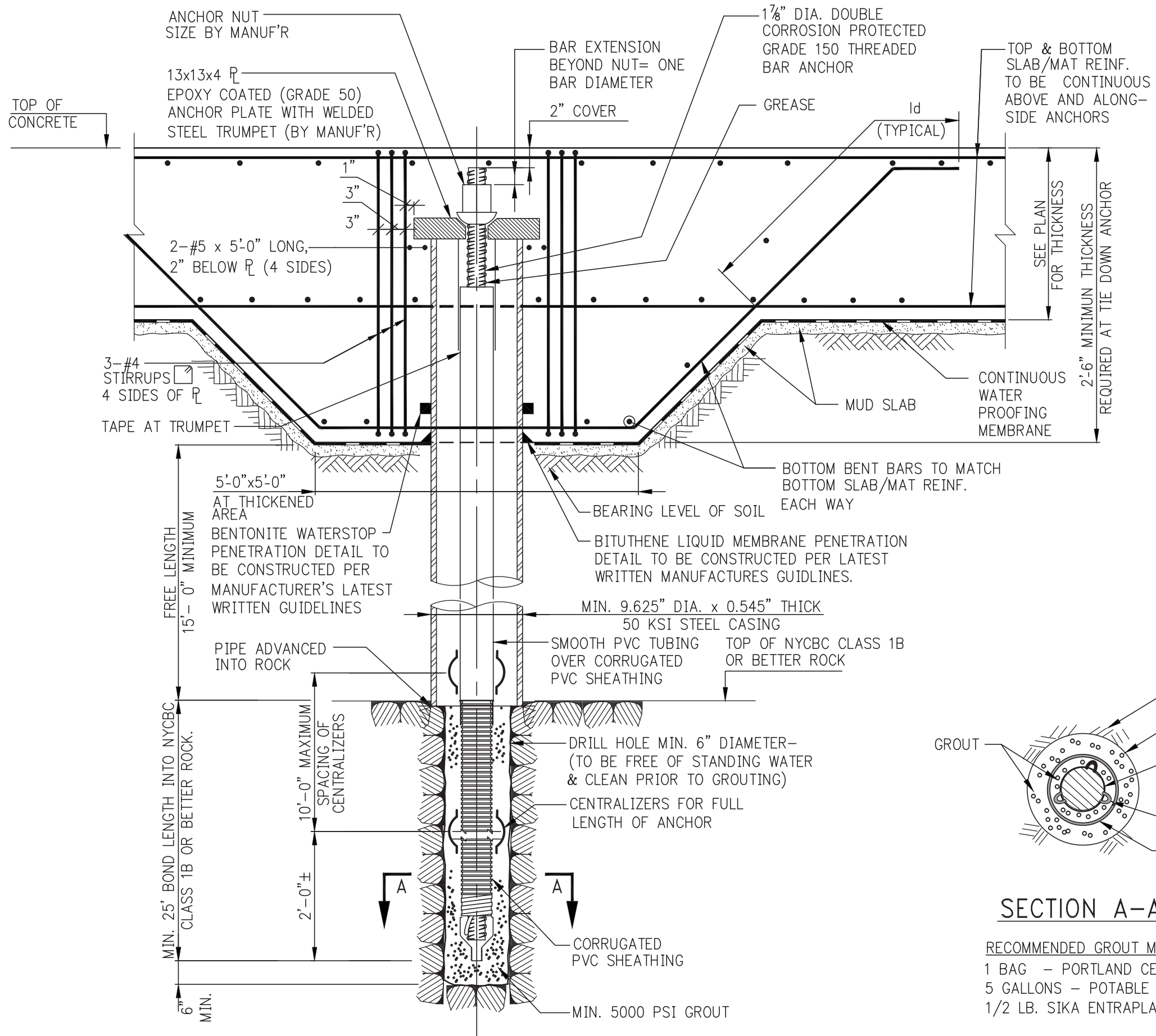


**MAT FOUNDATION CONSTRUCTION JOINT**

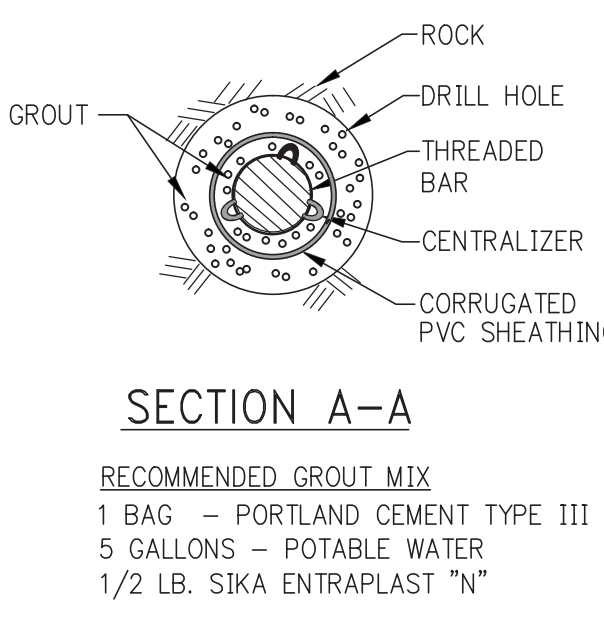


**MAT FOUNDATION CONDITION WHERE THEORETICAL HAUNCHES ARE TO BE OMITTED**

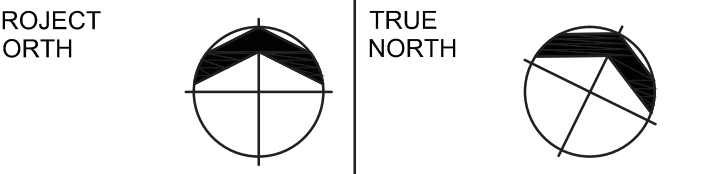
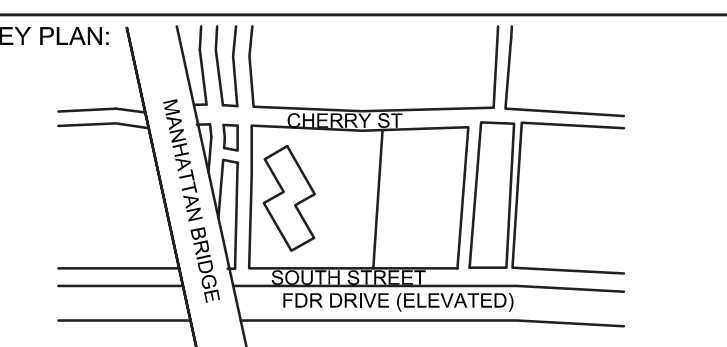
- NOTE A:**  
 WHEN THEORETICAL DIMENSION 'A' IS LESS THAN 1'-6", OMIT HAUNCHES REPRESENTED BY DASHED LINES



**TIE-DOWN ROCK ANCHOR AT PRESSURE SLAB ON SOIL**



- SECTION A-A**
- RECOMMENDED GROUT MIX**
- 1 BAG - PORTLAND CEMENT TYPE III
  - 5 GALLONS - POTABLE WATER
  - 1/2 LB. SIKKA ENTRAPLAST "N"



**PROJECT NORTH**

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 14 Wall Street, 2nd Floor  
 New York, NY 10005  
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**INTERIOR DESIGNER:**  
**MEYER DAVIS**  
 180 Varick St, suite 404  
 New York, NY 10014  
 TEL: 212-627-8574

**LANDSCAPE DESIGNER:**  
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 New York, NY 10017  
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**MEP ENGINEERS:**  
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3	FOUNDATION BID PACKAGE	06-10-14
4	ISSUED FOR FOUNDATION BID	07-25-14
5	50% DD	08-01-14
6	ISSUED FOR DOT	08-07-14
7	ISSUED FOR COORDINATION	08-15-14
8	ISSUED FOR FOUNDATION BID	08-29-14

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**PROJECT:**  
**250 SOUTH STREET**  
**NEW YORK, NY**

**DRAWING TITLE:**  
**TYPICAL FOUNDATION**  
**DETAILS 3**

**SEAL & SIGNATURE:**

**DATE:** 07/25/14

**PROJECT No:** 1302510

**DRAWN:** CADD **REV:**

**CHK:** CL

**SCALE:** N.T.S.

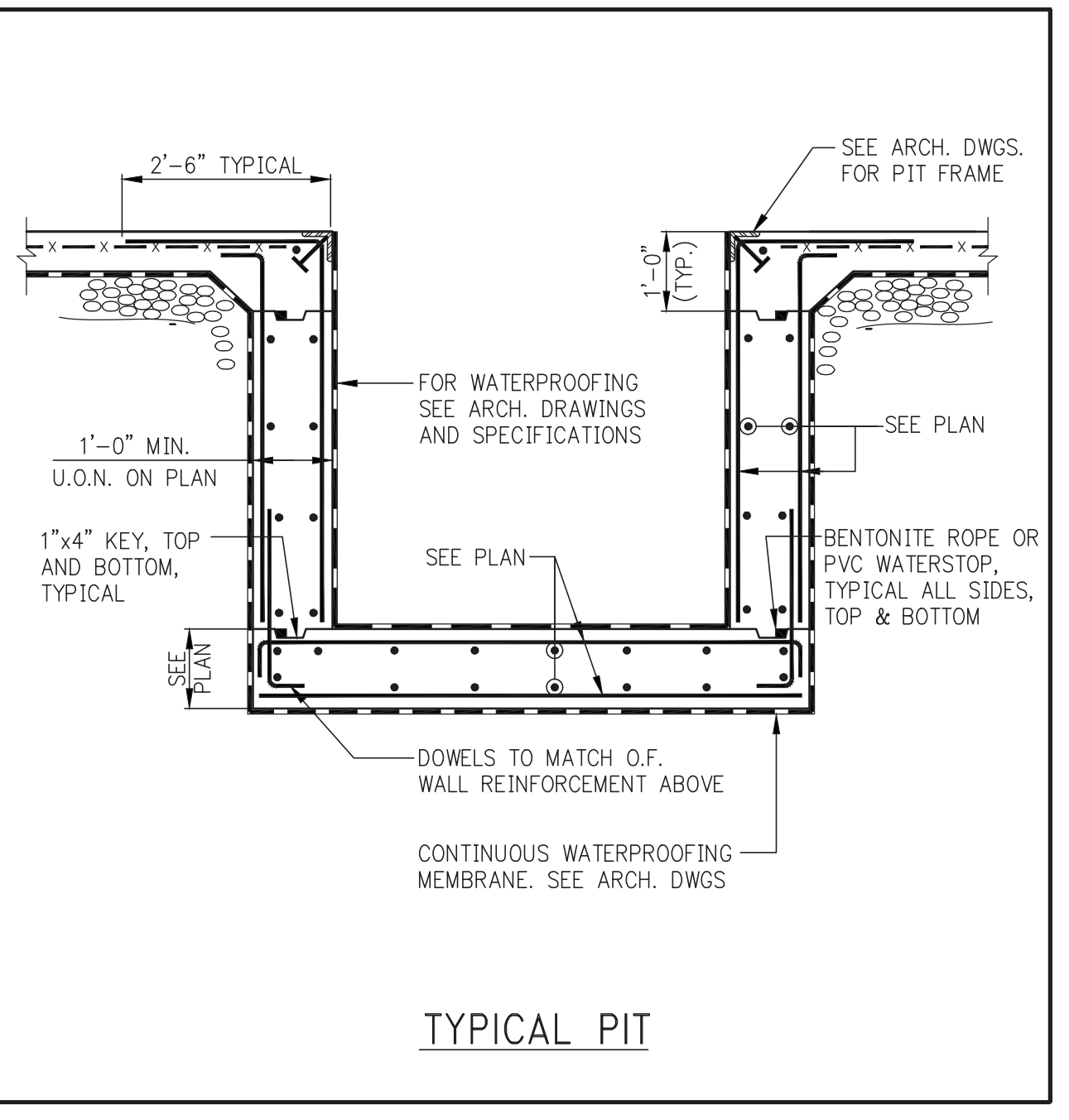
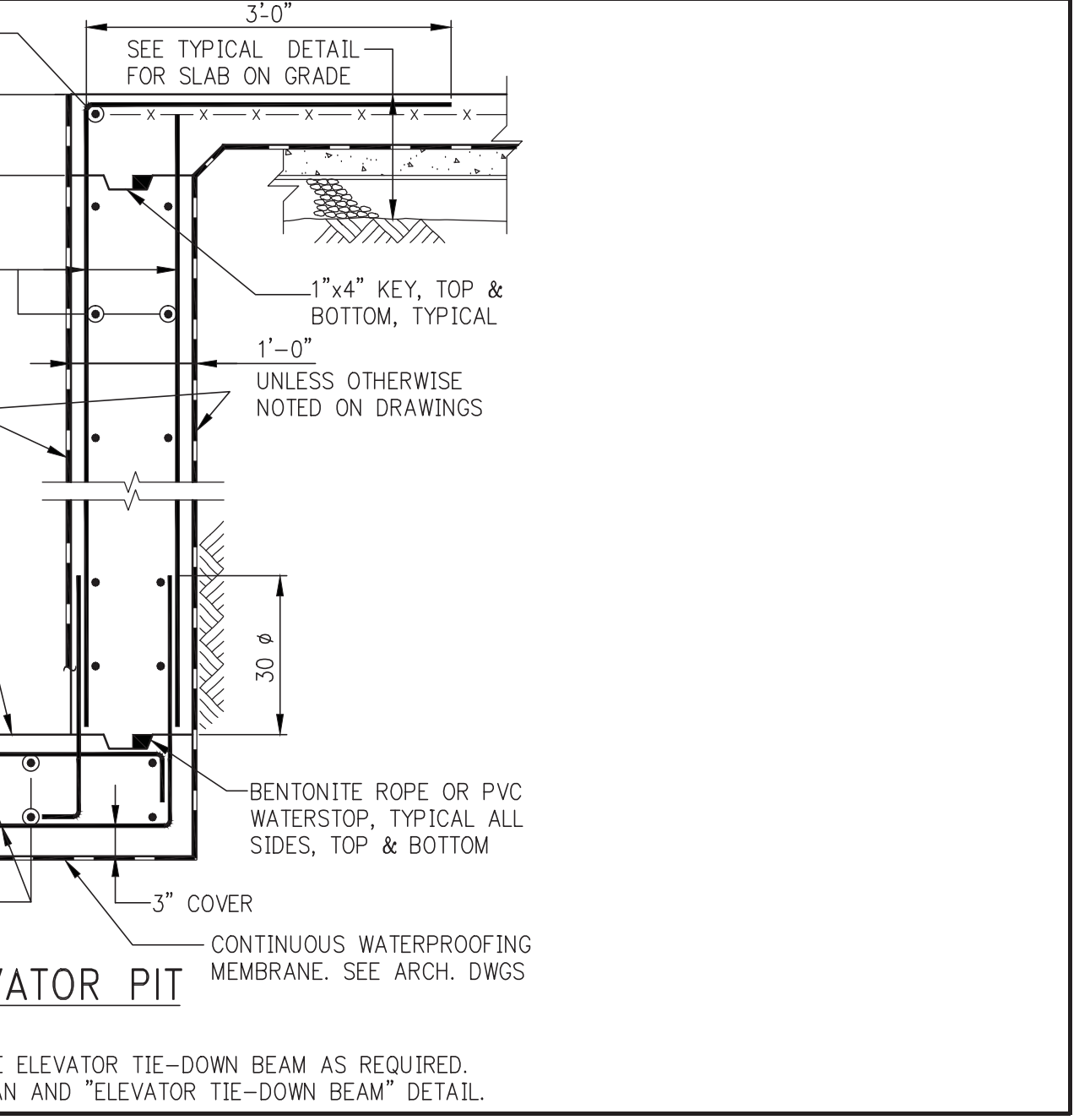
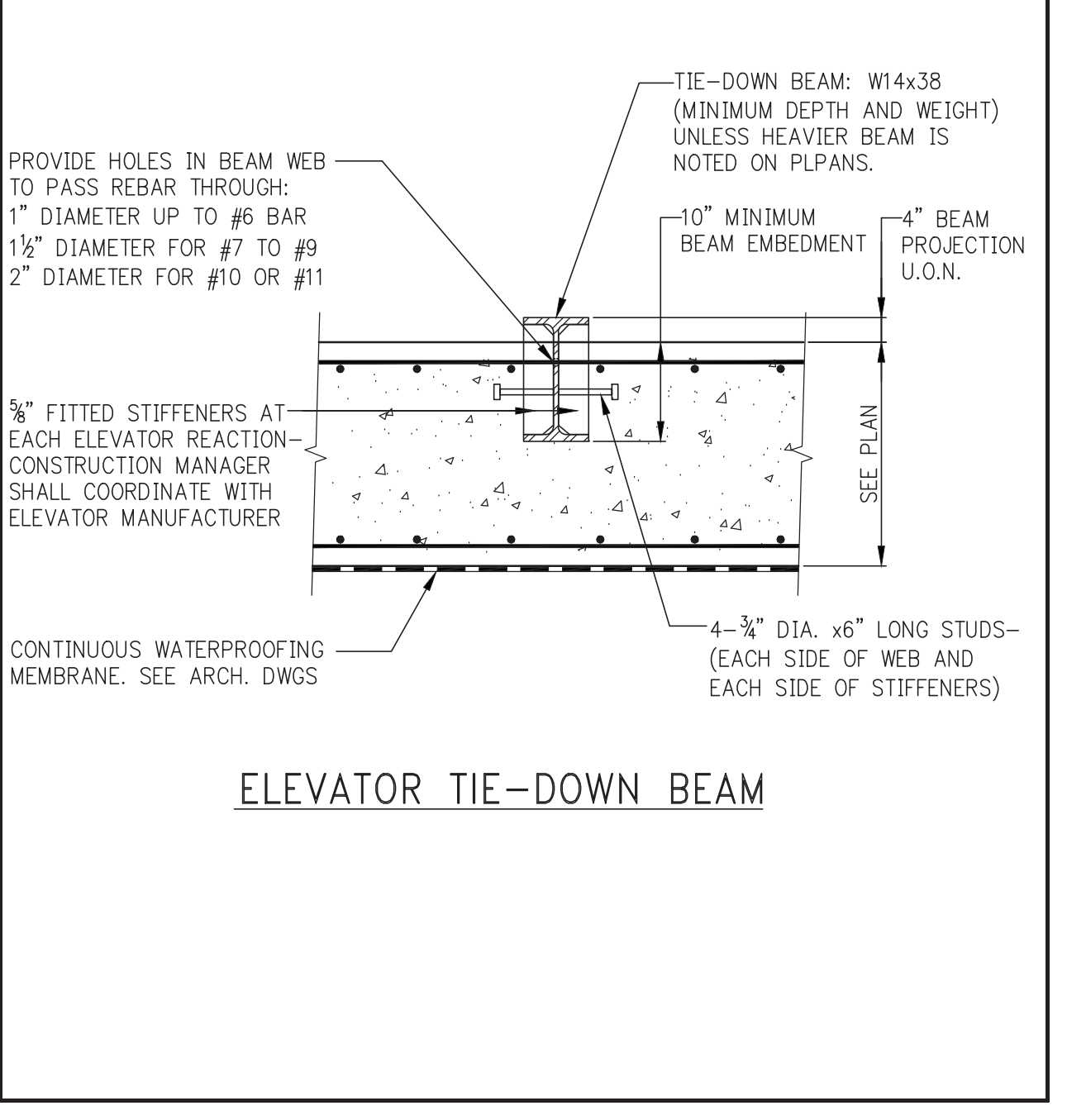
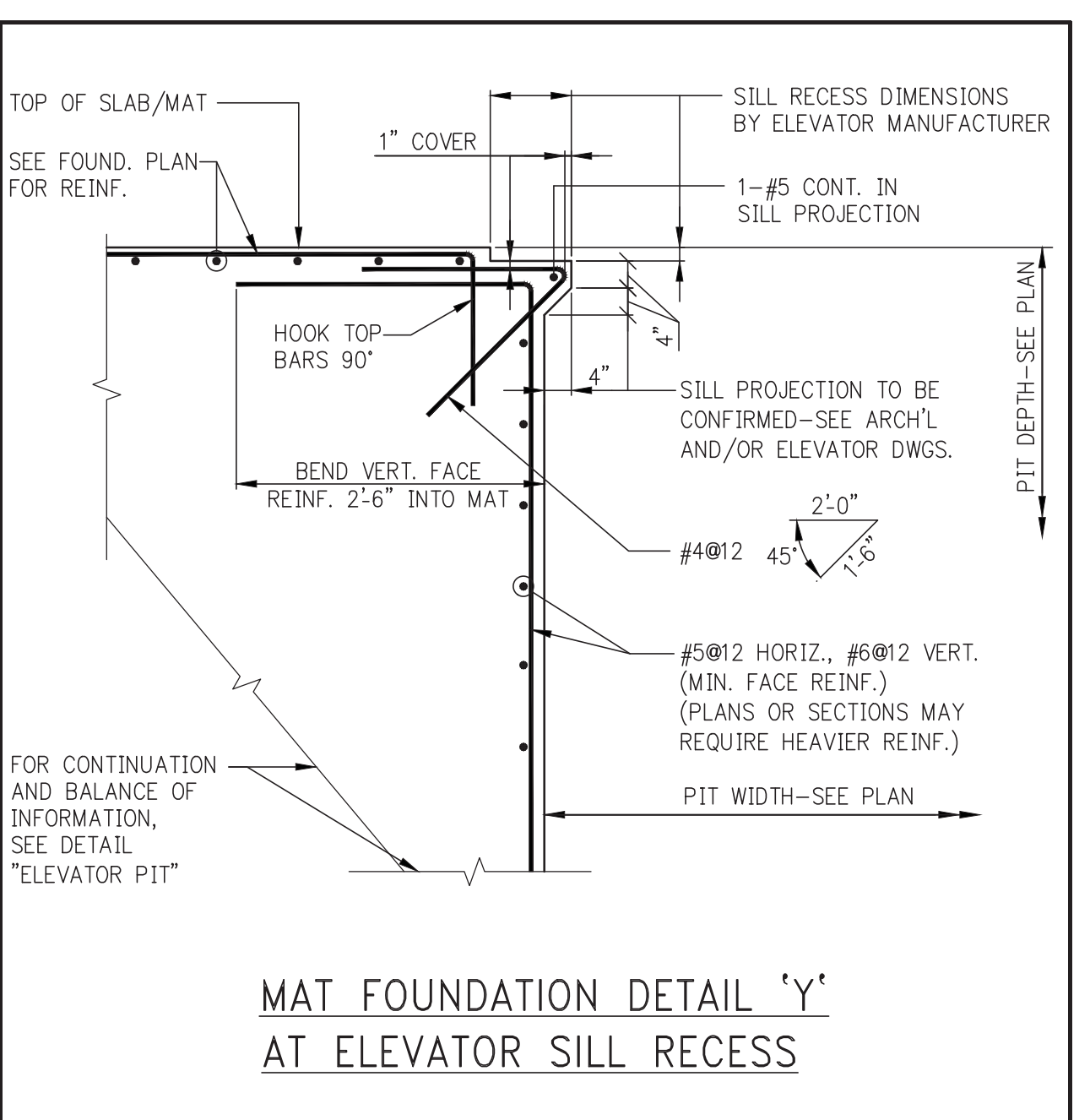
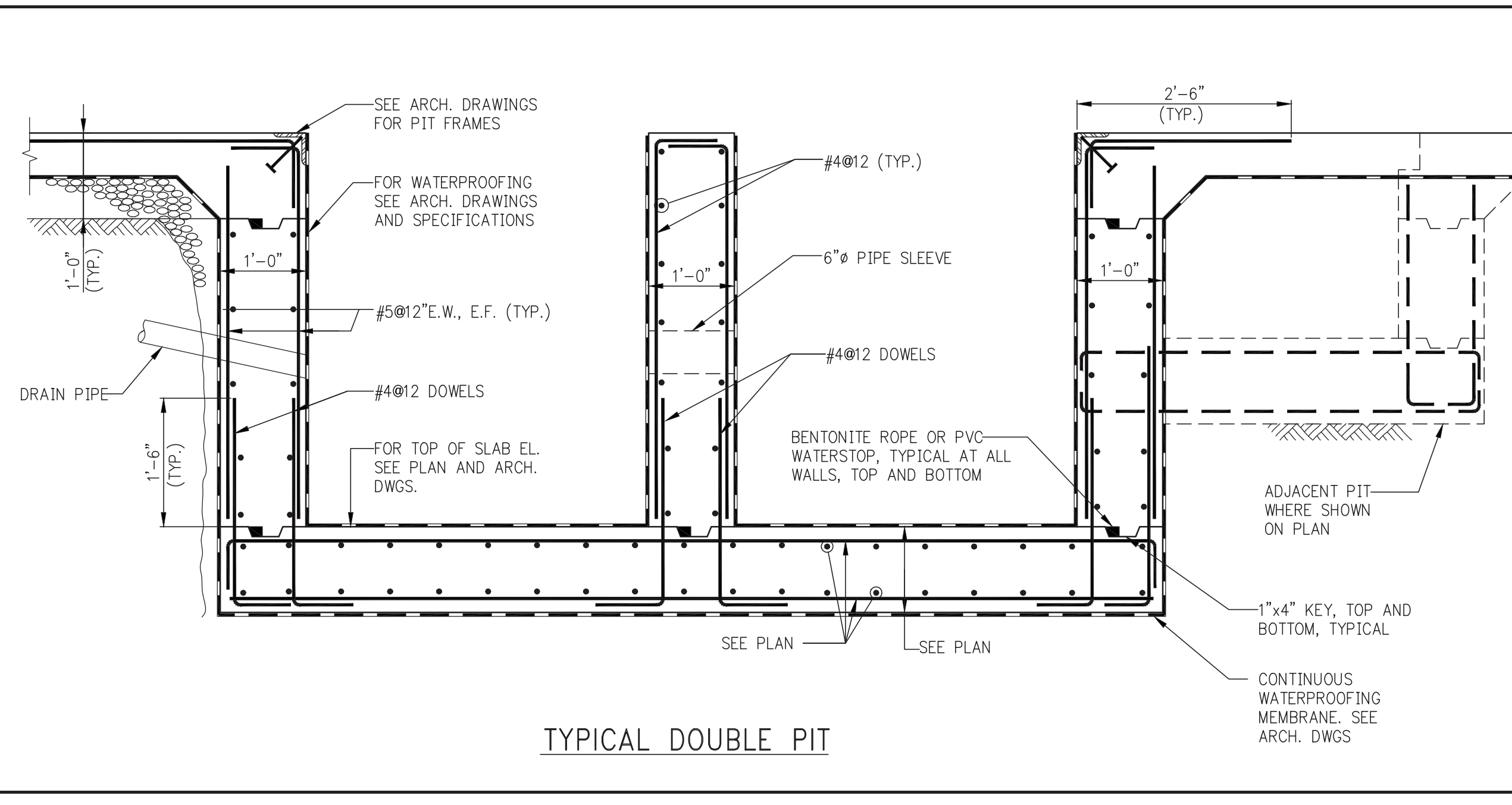
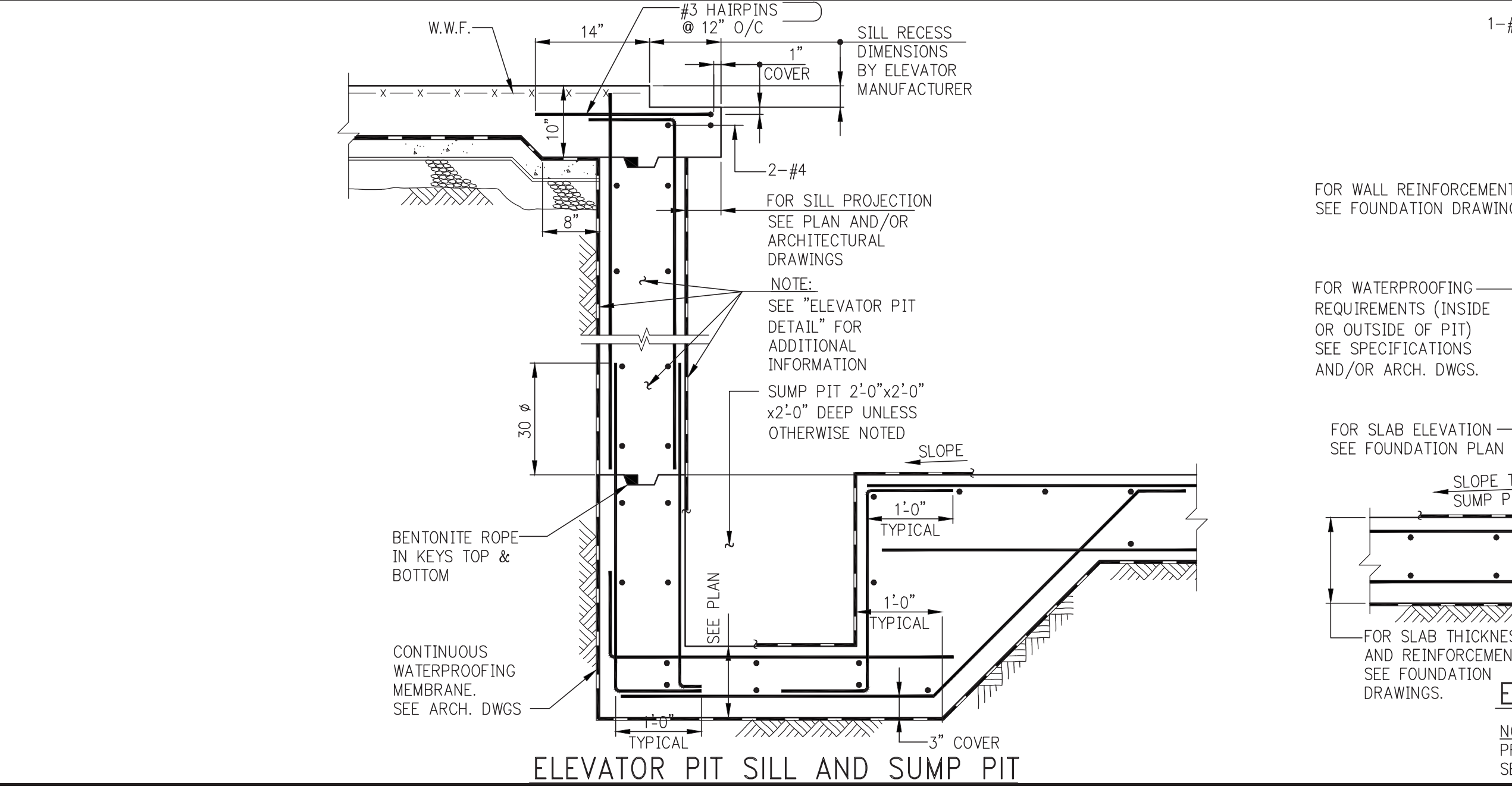
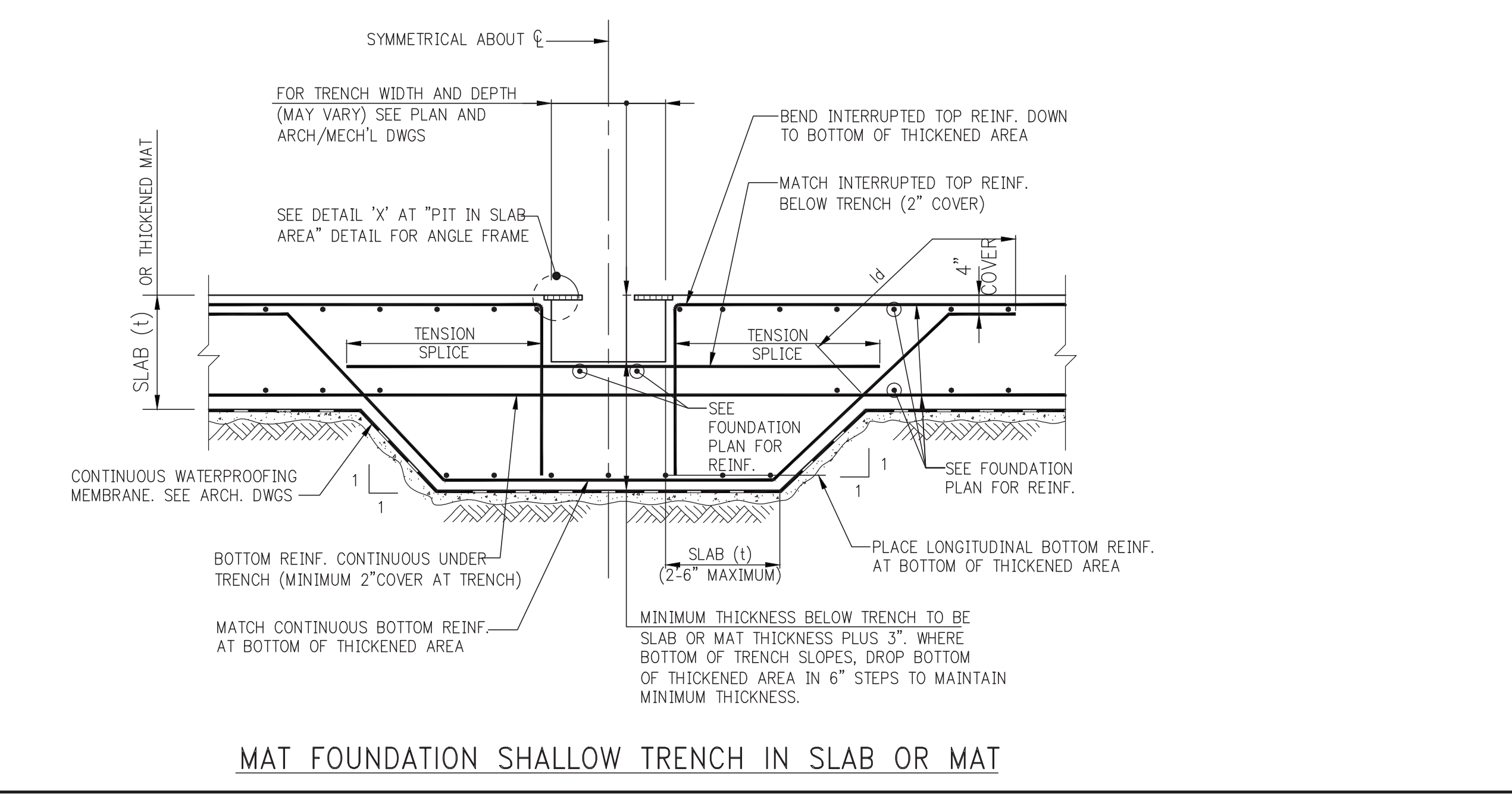
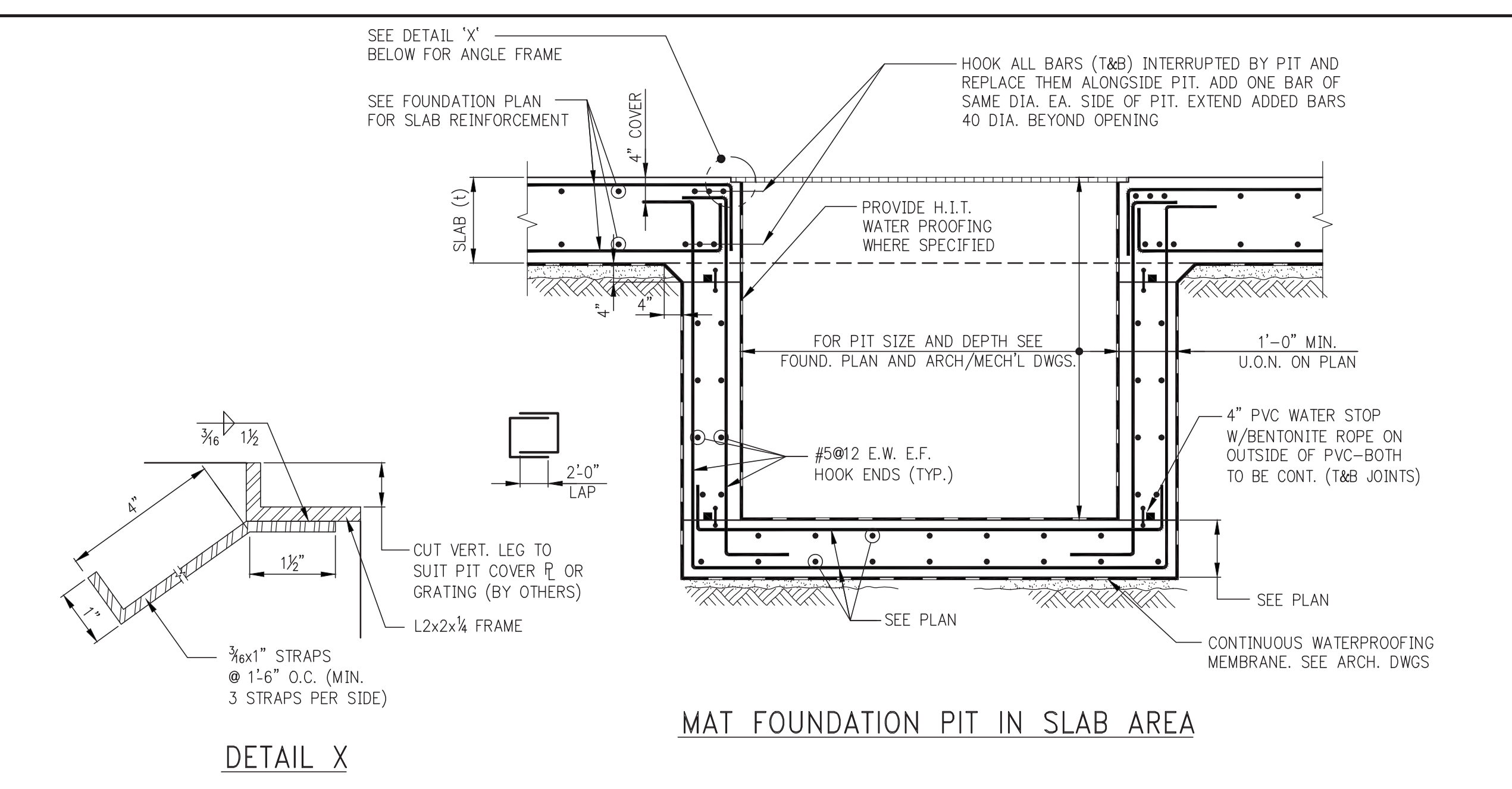
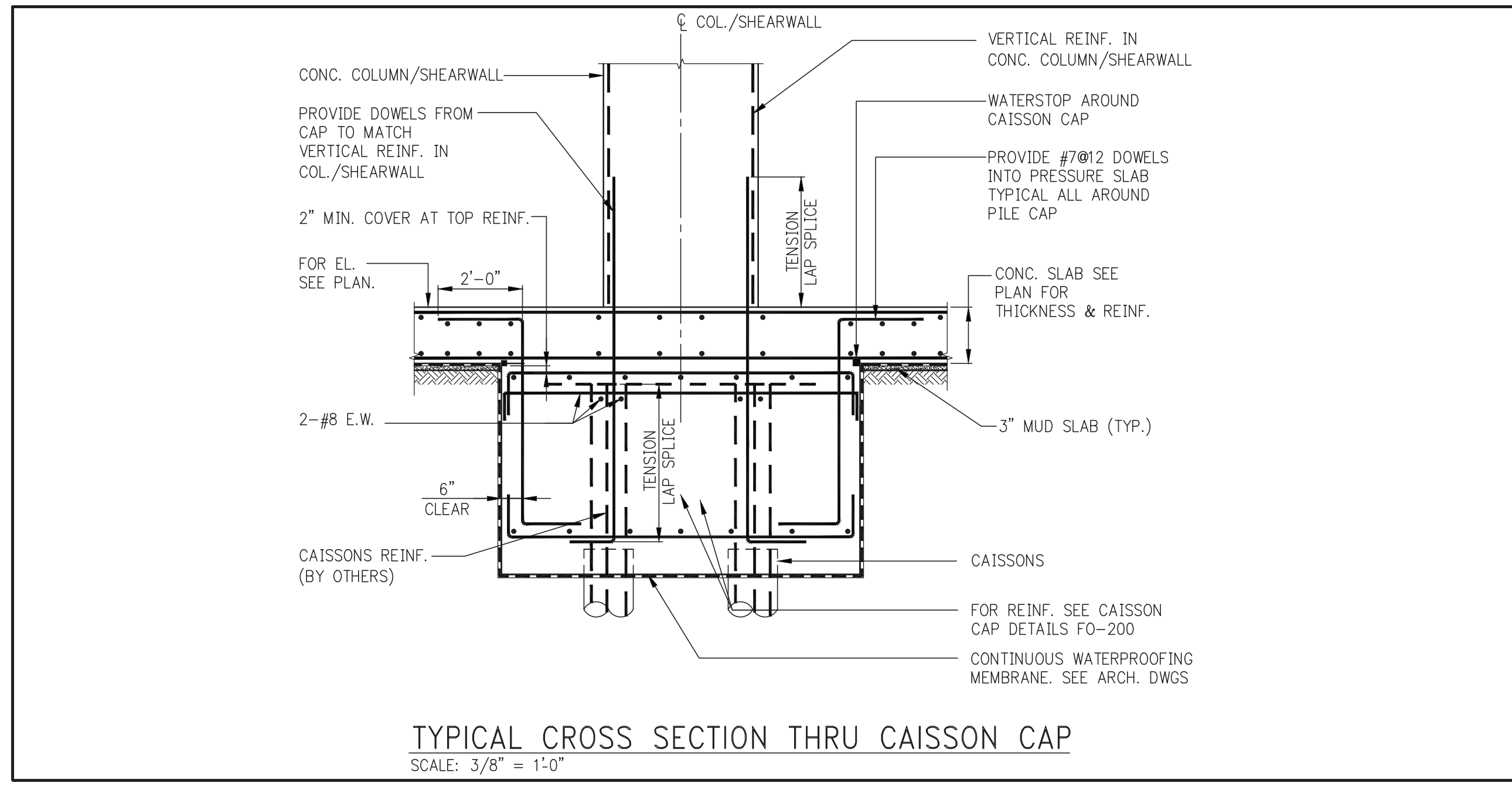
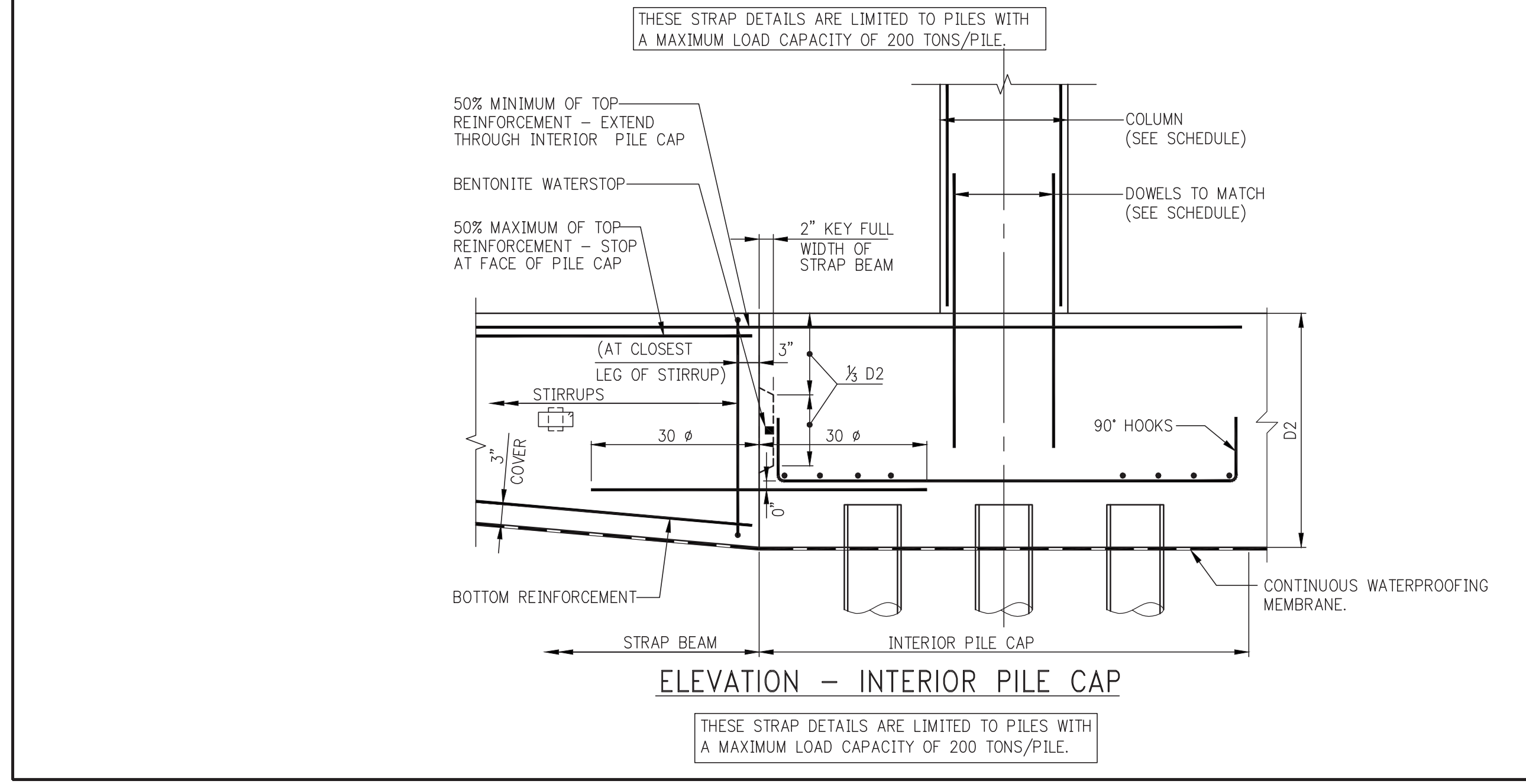
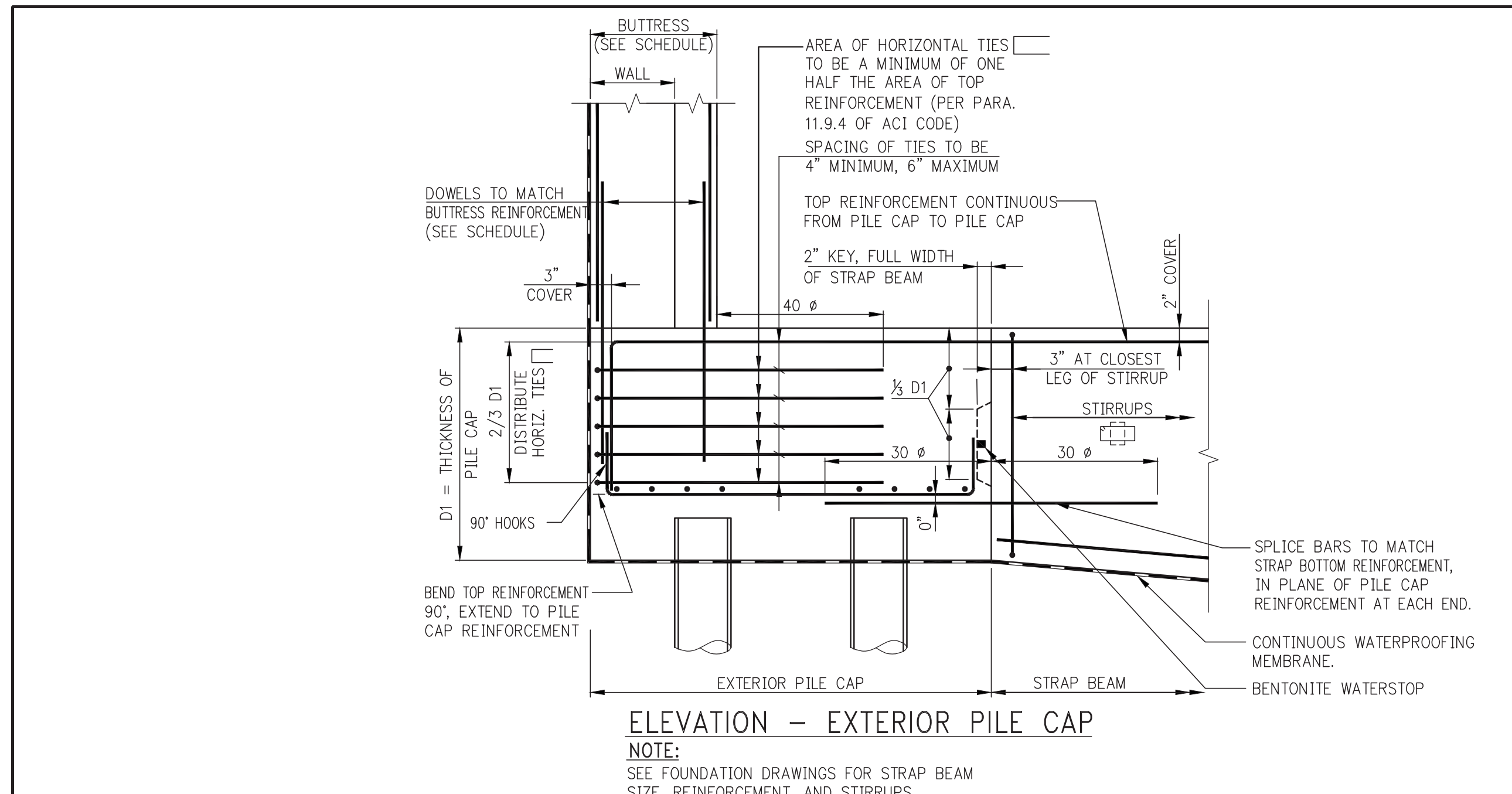
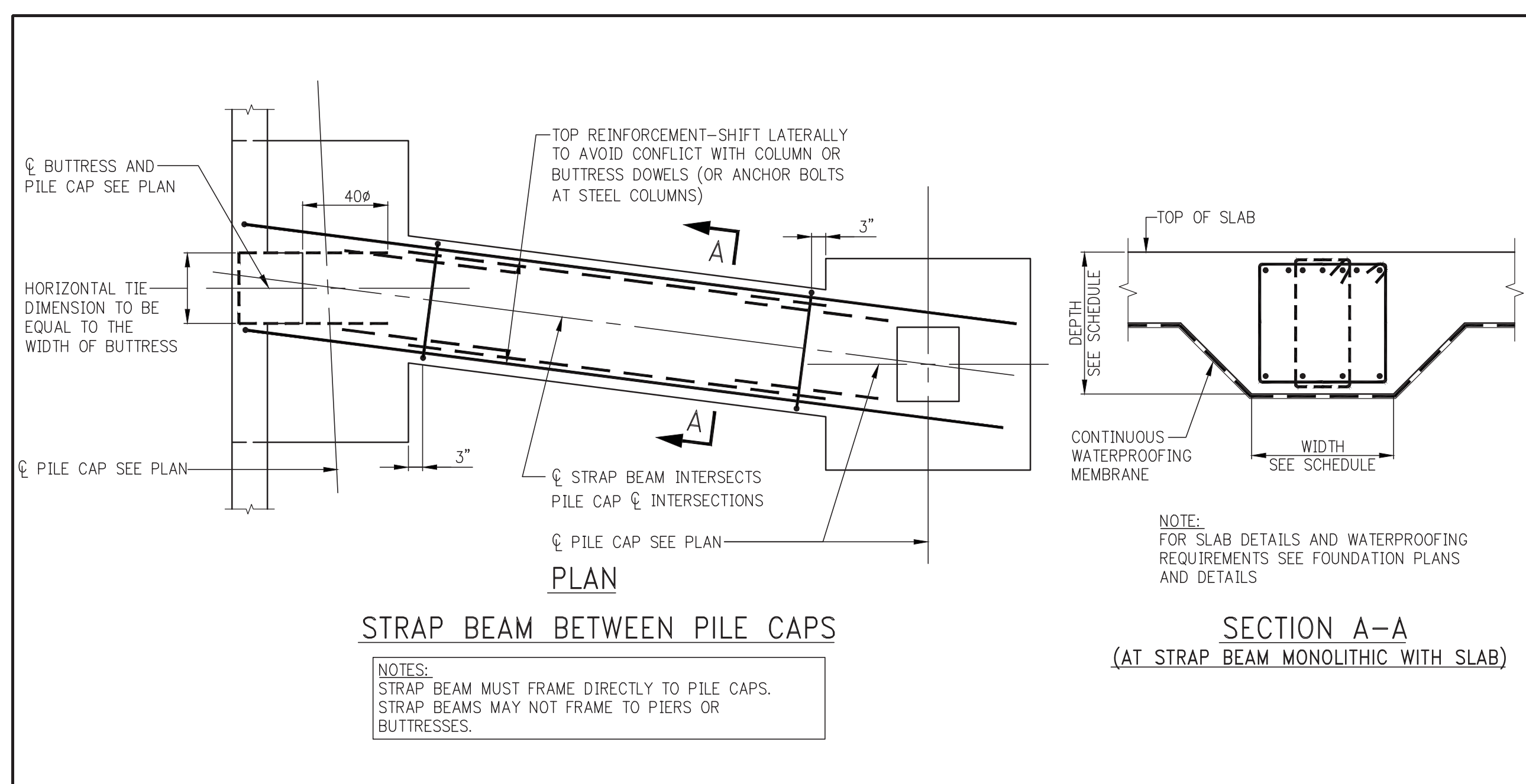
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**DOB B-SCAN:**

**Damian Titus**  
  
**Buildings APPROVED**  
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**KEY PLAN**

**PROJECT NORTH**

**TRUE NORTH**

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4	SOF DO	08-01-14
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**PROJECT:**  
**250 SOUTH STREET**  
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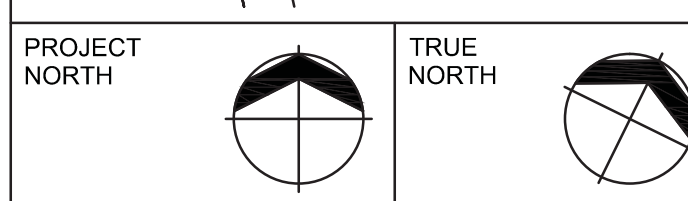
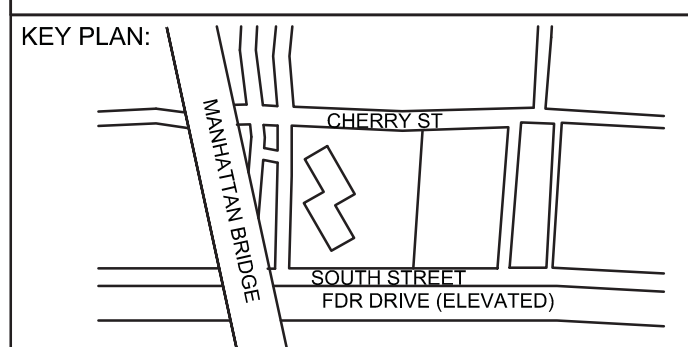
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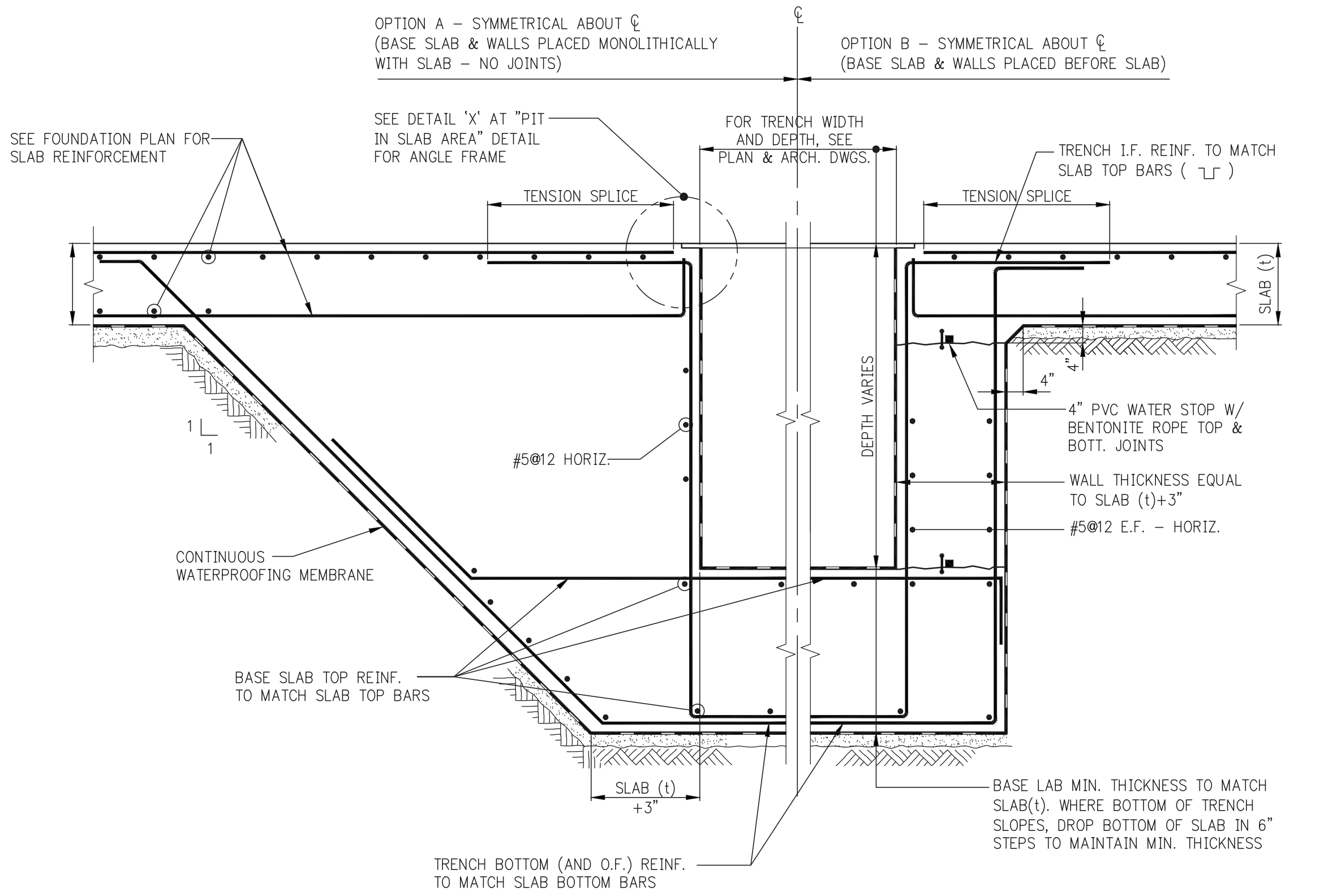
CONSULTANT:  
**AAI ARCHITECTS, P.C.**

PROJECT:  
**250 SOUTH STREET  
NEW YORK, NY**

DRAWING TITLE:  
**TYPICAL FOUNDATION  
DETAILS 5**

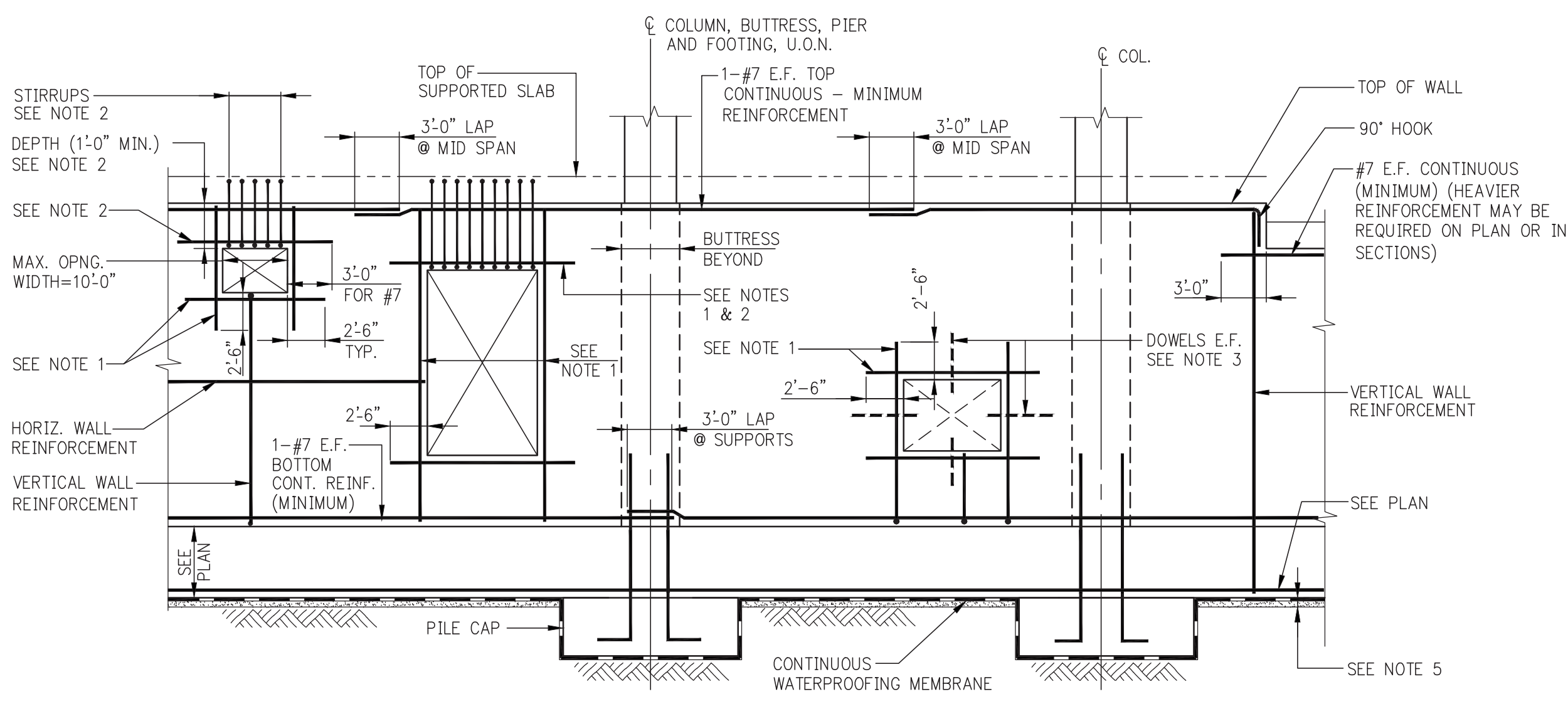
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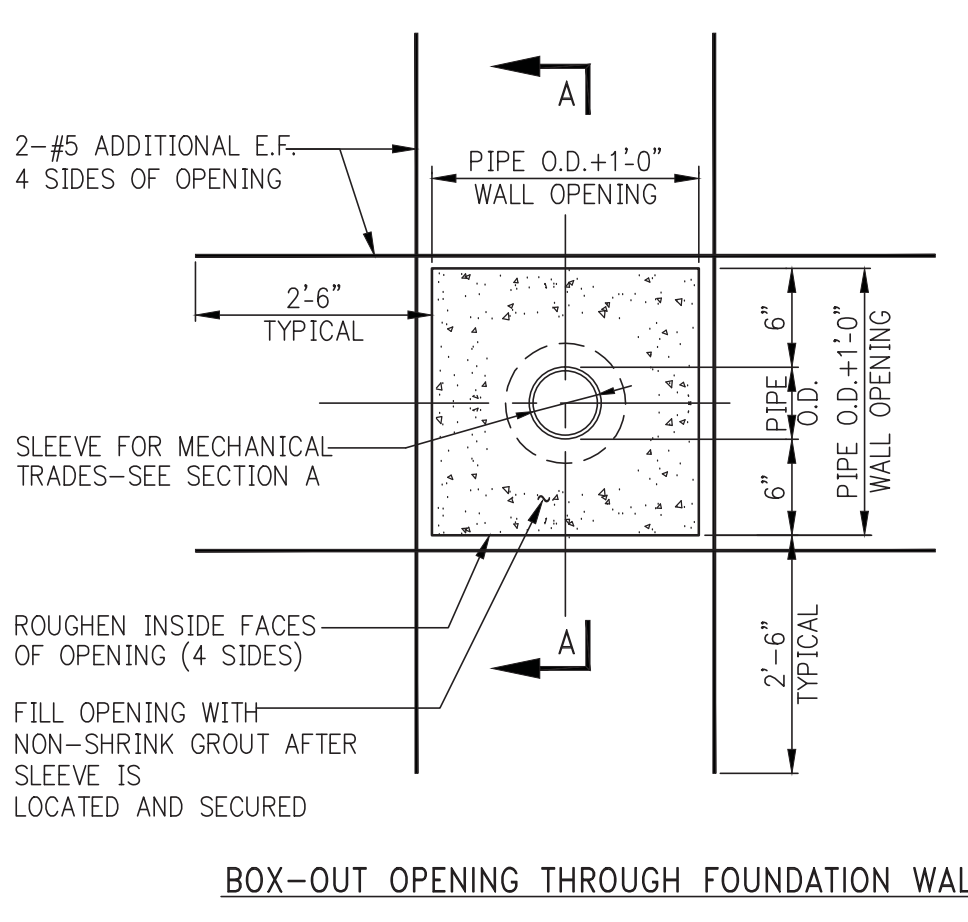
**MAT FOUNDATION TRENCH IN SLAB AREA (DEEPER THAN SLAB)**

NOTE:  
TOP AND BOTTOM SLAB REINF. MUST BE LAP SPICED AND HOOKED AS SHOWN TO MAINTAIN MOMENT CAPACITY CONTINUITY.

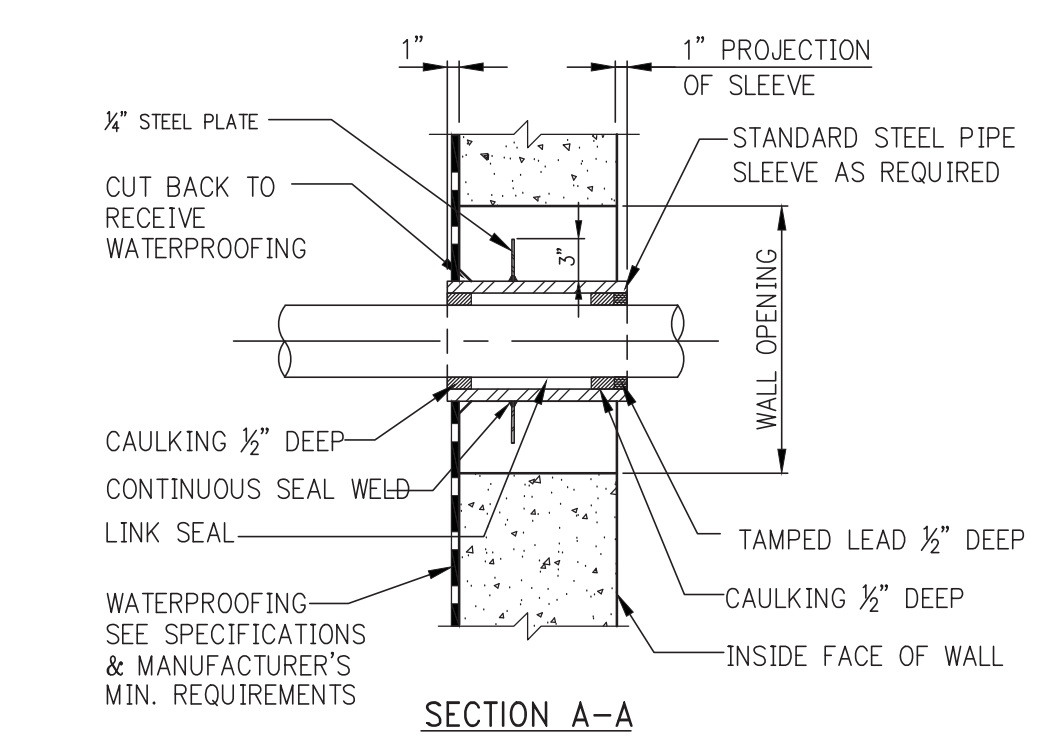


**FOUNDATION WALL ELEVATION SHOWING REINFORCEMENT AT OPENINGS AND MISCELLANEOUS DETAILS**

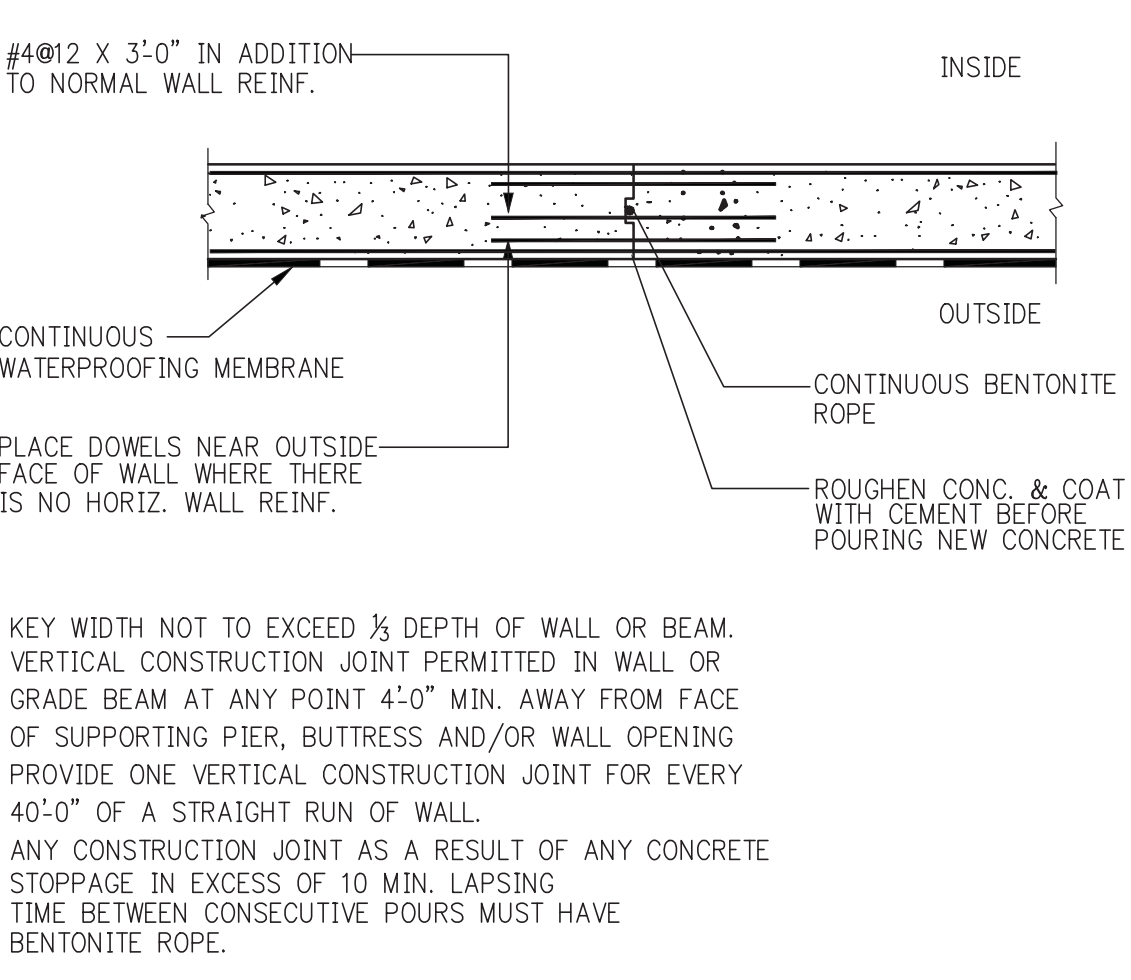
NOTES:  
1. ADD #5 BARS (HORIZ. & VERT.) AT ALL FOUR EDGES OF OPENINGS. AREA OF ADDED BARS AT EACH EDGE TO BE EQUAL TO ONE HALF OF AREA OF INTERRUPTED BARS IN THE CORRESPONDING DIRECTION. PROVIDE A MINIMUM OF 1-#5 E.F.  
2. WHERE TOP EDGE OF OPENING IS LESS THAN 2'-6" FROM TOP OF WALL ADD 1-#7 E.F. (IN LIEU OF #5) OVER OPENING. PROVIDE #4 [L] STIRRUPS @ 8" - EXTEND INTO SLAB WITH 2" COVER AT TOP OF STIRRUPS.  
3. AT UTILITY ACCESS OPENINGS WHICH ARE TO BE FILLED IN WITH CONCRETE, PROVIDE DOWELS PROJECTING 1'-0" INTO OPENING, EITHER EXTEND HORIZONTAL AND VERTICAL WALL REINFORCEMENT, OR ADD #4@12" E.F. DOWELS x2'-6" LONG.  
4. FOR ACTUAL OPENING SIZES AND LOCATIONS, SEE PLANS, SECTIONS, ARCHITECTURAL DWGS., AND MEP DWGS. SUBMIT SHOP DRAWINGS WITH WALL ELEVATIONS SHOWING ALL OPENINGS AND REINFORCEMENT.  
5. PROVIDE FOOTING OR CONCRETE MUD SLAB TO SUPPORT WALL FORMS AND WET CONCRETE. SEE FOUNDATION SECTIONS ON FS-300 SERIES DRAWINGS FOR ADDITIONAL DETAILS.



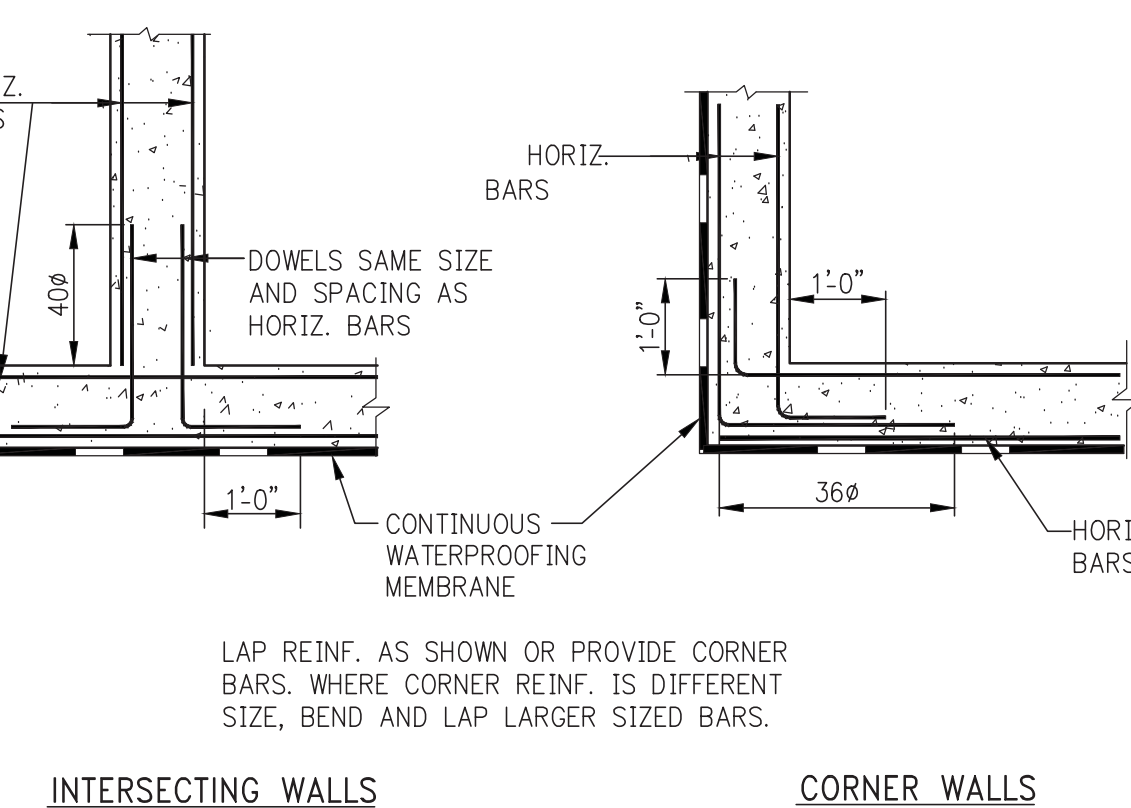
**BOX-OUT OPENING THROUGH FOUNDATION WALL**



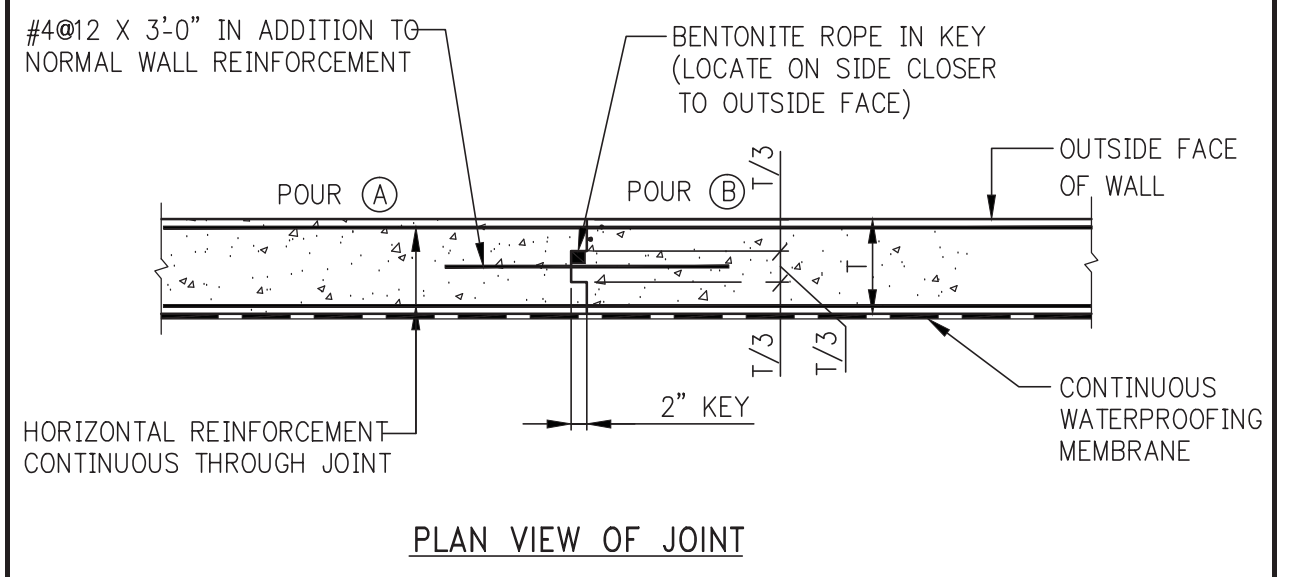
**SECTION A-A  
WATERPROOFED SLEEVE THROUGH WALL WITH WATERPROOFING**



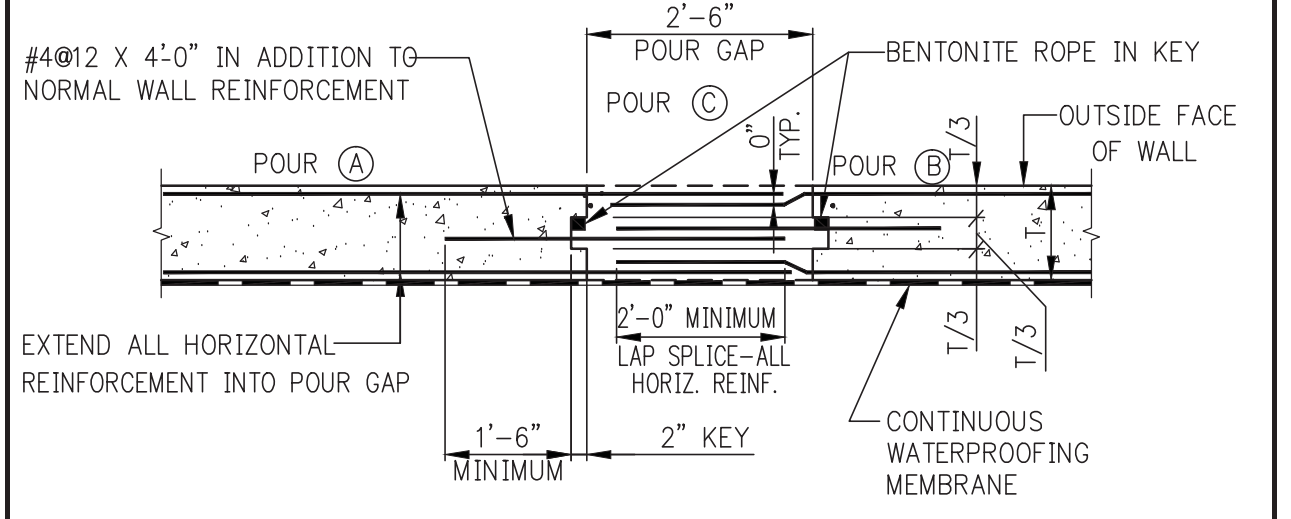
**TYPICAL VERTICAL CONSTRUCTION JOINT IN WALL**



**TYPICAL WALL INTERSECTION DETAILS**



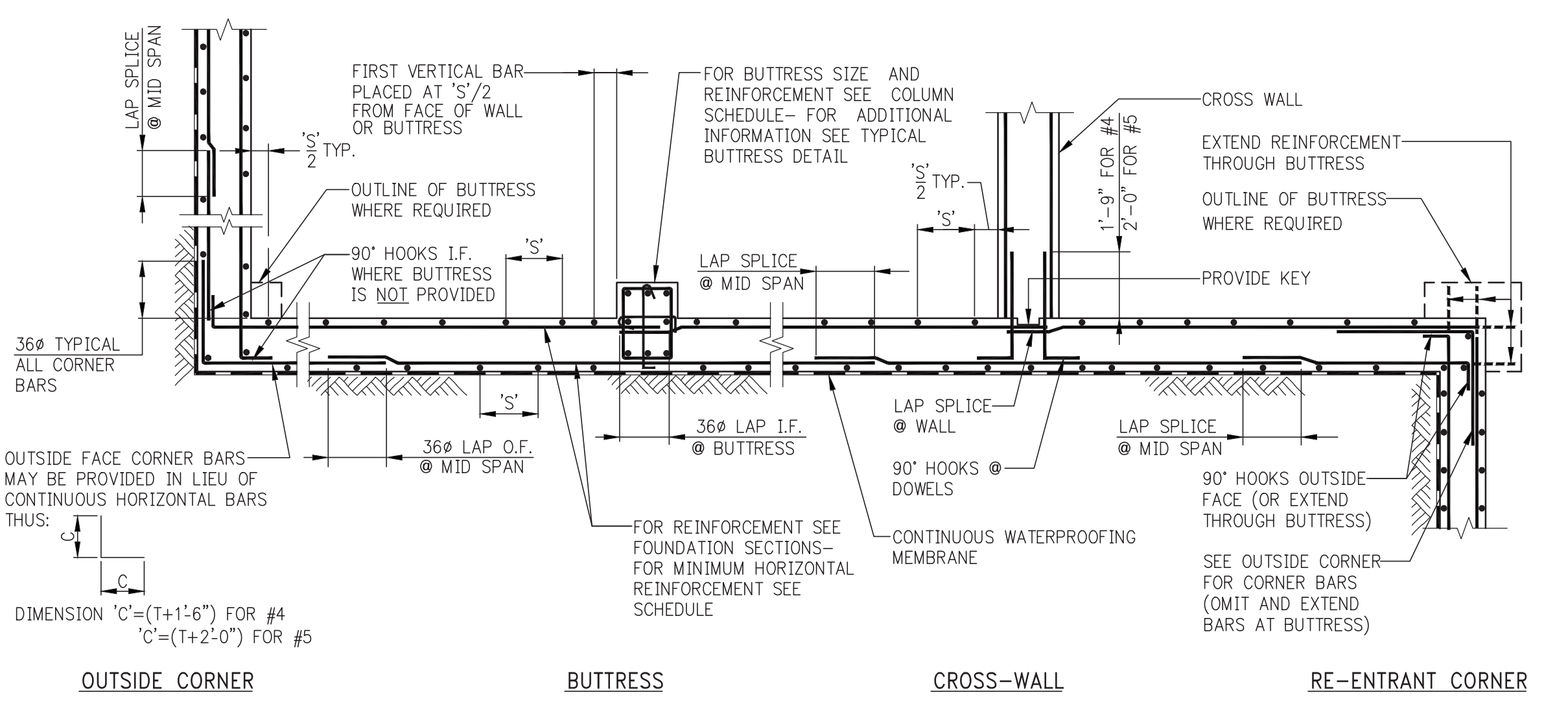
**PLAN VIEW OF JOINT**



**ALTERNATIVE-POUR GAP**

**VERTICAL CONSTRUCTION JOINT IN FOUNDATION WALL**

NOTES:  
1. CONSTRUCTION JOINTS IN WALLS SHALL BE LOCATED AT LEAST FOUR FEET FROM FACE OF SUPPORTING PIER, FOOTING, PILE CAP, ETC. OR FROM WALL OPENING.  
2. MAXIMUM SPACING BETWEEN JOINTS SHALL BE FORTY FEET UNLESS NOTED OTHERWISE ON THE FOUNDATION DRAWINGS.  
3. CONCRETE SHALL NOT BE PLACED IN THE POUR GAP UNTIL 24 HOURS AFTER PLACEMENT OF THE MOST RECENT ADJACENT SECTION.  
4. FOR JOINTS IN SHEARWALLS SEE DETAILS IN FS-400 OR S-400 SERIES.



**HORIZONTAL SECTION SHOWING PLACEMENT OF FOUNDATION WALL REINFORCEMENT**

MINIMUM HORIZONTAL WALL REINFORCEMENT REQUIRED AT EACH FACE

T = WALL THICKNESS	HORIZONTAL REINFORCEMENT
UP TO 10"	#4@18 E.F.
11" TO 12"	#4@16 E.F.
13" TO 16"	#4@12 E.F.
17" TO 20"	#4@10 OR #5@15 E.F.
21" TO 22"	#4@9 OR #5@12 E.F.
23" TO 24"	#4@8 OR #5@12 E.F.
OVER 24"	SEE PLANS AND SECTIONS

NOTE:  
VERTICAL CONSTRUCTION JOINT IN WALL IS NOT SHOWN HERE - SEE TYPICAL CONSTRUCTION JOINT DETAIL.

TABLE #1: TENSION LAP SPLICES (CLASS B MINIMUM)

Table with 2 columns: TABLE 1.A: 3/4" COVER TO OUTER LAYER BARS and TABLE 1.C: 1 1/2" COVER TO OUTER LAYER BARS. Rows include bar size and concrete strength (f'c).

Table with 2 columns: TABLE 1.B: 3/4" COVER TO OUTER LAYER BARS and TABLE 1.D: 1 1/2" COVER TO OUTER LAYER BARS. Rows include bar size and concrete strength (f'c).

TABLE #2: TENSION DEVELOPMENT LENGTHS (Ld) (IN INCHES)

Table with 2 columns: TABLE 2.A: 3/4" COVER TO OUTER LAYER BARS and TABLE 2.C: 1 1/2" COVER TO OUTER LAYER BARS. Rows include bar size and concrete strength (f'c).

Table with 2 columns: TABLE 2.B: 3/4" COVER TO OUTER LAYER BARS and TABLE 2.D: 1 1/2" COVER TO OUTER LAYER BARS. Rows include bar size and concrete strength (f'c).

TABLE #3: TENSION DEVELOPMENT LENGTHS FOR STANDARD END HOOKS (ldh) (LENGTHS IN INCHES)

Table with 2 columns: BAR SIZE and CONCRETE STRENGTH (PSI). Rows include bar sizes #3 through #18.

NOTES: 1. TABLE 3 CONFORMS TO ACI 318-2002 (AND 2005). TABULATED VALUES ARE BASED UPON ACI 12.5.2... 2. PER ACI 12.5.3 (c), FOR #11 AND SMALLER BARS...

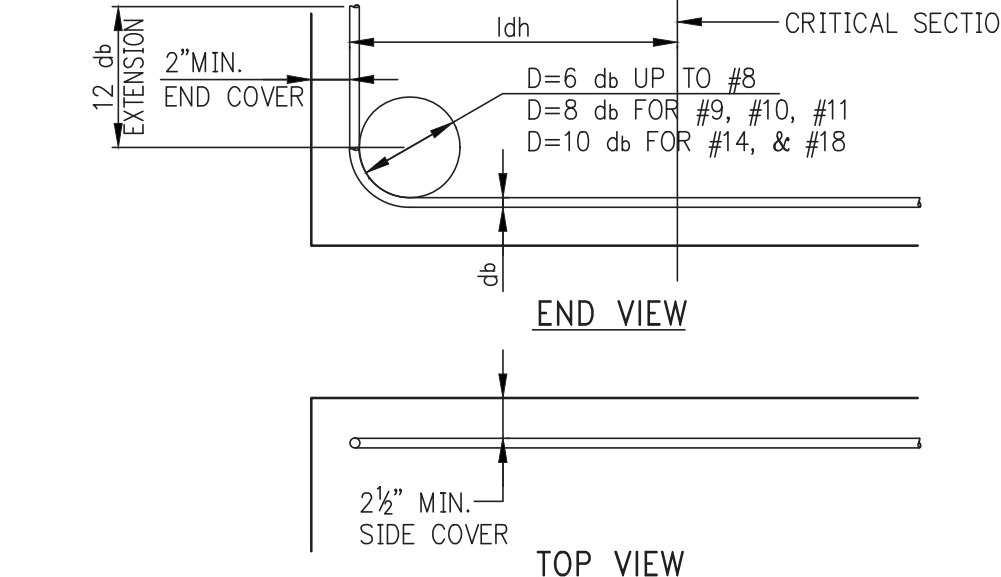


TABLE #4: COMPRESSION LAP SPLICES (LENGTHS IN INCHES)

Table with 2 columns: BAR SIZE and GRADE OF REINFORCEMENT. Rows include bar sizes #3 through #18.

NOTES: 1. LAP SPLICES ARE NOT PERMITTED... 2. LAP SPLICES OF #14 AND #18 BARS TO #11 AND SMALLER BARS ARE PERMITTED... 3. FOR BARS OF DIFFERENT SIZE...

TABLE #5: DEVELOPMENT LENGTHS FOR BARS IN COMPRESSION (LENGTHS IN INCHES)

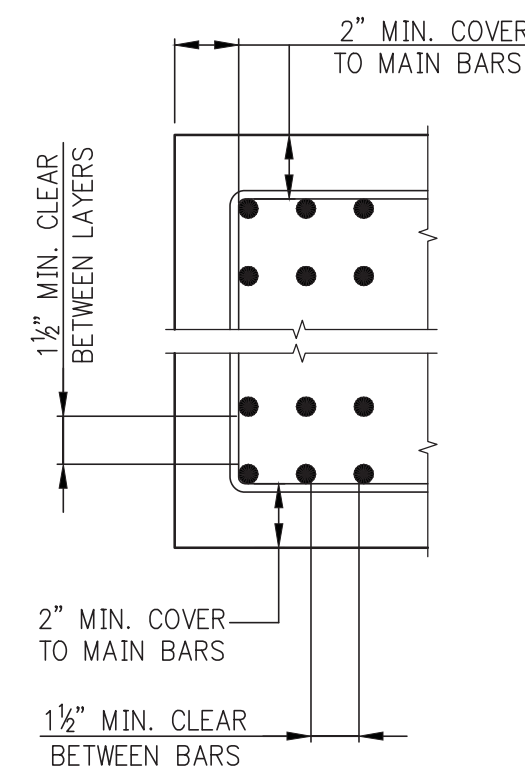
Table with 3 columns: BAR SIZE, fy = 60,000 PSI, fy = 75,000 PSI, and fy = 80,000 PSI. Rows include bar sizes #3 through #18.

NOTES FOR TENSION LAP SPLICES

- 1. REINFORCEMENT IS UNCOATED, WITH Fy=60,000 PSI. 2. CONCRETE IS NORMAL WEIGHT (144-150#/C.F.). 3. FOR "TOP" BAR SPLICE LENGTHS ("TOP" IS DEFINED BY ACI 318 AS HAVING MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW THE BAR)...

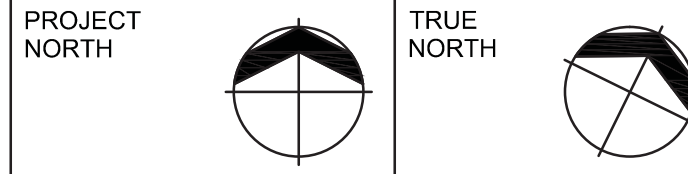
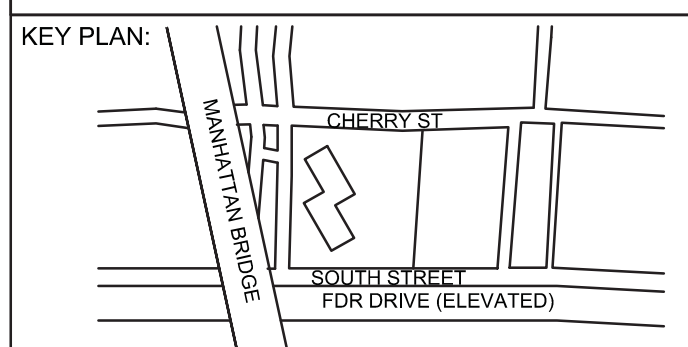
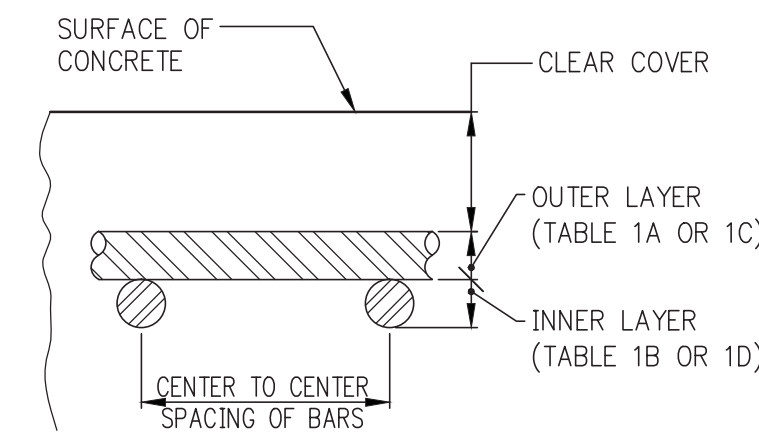
NOTES FOR TENSION DEVELOPMENT LENGTHS (Ld)

- 1. REINFORCEMENT IS UNCOATED, WITH Fy=60,000 PSI. 2. CONCRETE IS NORMAL WEIGHT (144-150#/C.F.). 3. FOR "TOP" BAR DEVELOPMENT LENGTHS ("TOP" IS DEFINED BY ACI 318 AS HAVING MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW THE BAR)...



MULTIPLE LAYERS

PROVIDE MINIMUM COVER AND CLEARANCES SHOWN, USE TABLE 1.A FOR LAP SPLICE LENGTHS.



DEVELOPER: EXTCELL DEVELOPMENT COMPANY, 805 Third Ave, 7th Floor, New York, NY 10022

ARCHITECT OF RECORD: AAI ARCHITECTS, P.C., 14 Wall Street, 2nd Floor, New York, NY 10005

INTERIOR DESIGNER: MEYER DAVIS, 180 Varick St, suite 404, New York, NY 10014

LANDSCAPE DESIGNER: WEST 8 URBAN DESIGN & LANDSCAPE ARCHITECTURE P.C., 333 Hudson Street, Suite 905, New York, NY 10013

STRUCTURAL ENGINEERS: WSP, 228 East 45th Street, New York, NY 10017

MEP ENGINEERS: ICOR ASSOCIATES, LLC, 485 C Route 1 South, Suite 200, Iselin, NJ 08830

GEOTECHNICAL ENGINEERS: LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, 21 Penn Plaza - 360 West 31st Street, 8th Floor, New York, NY 10001

Table with 3 columns: No., DESCRIPTION, and DATE. Lists project milestones like ISSUED FOR DOT and FOUNDATION FILING.

Discrepancies must be reported immediately to the Architect before proceeding. Only figured dimensions are to be used.

ALL DIMENSIONS ARE SHOWN IN IMPERIAL.

CONSULTANT: AAI ARCHITECTS, P.C.

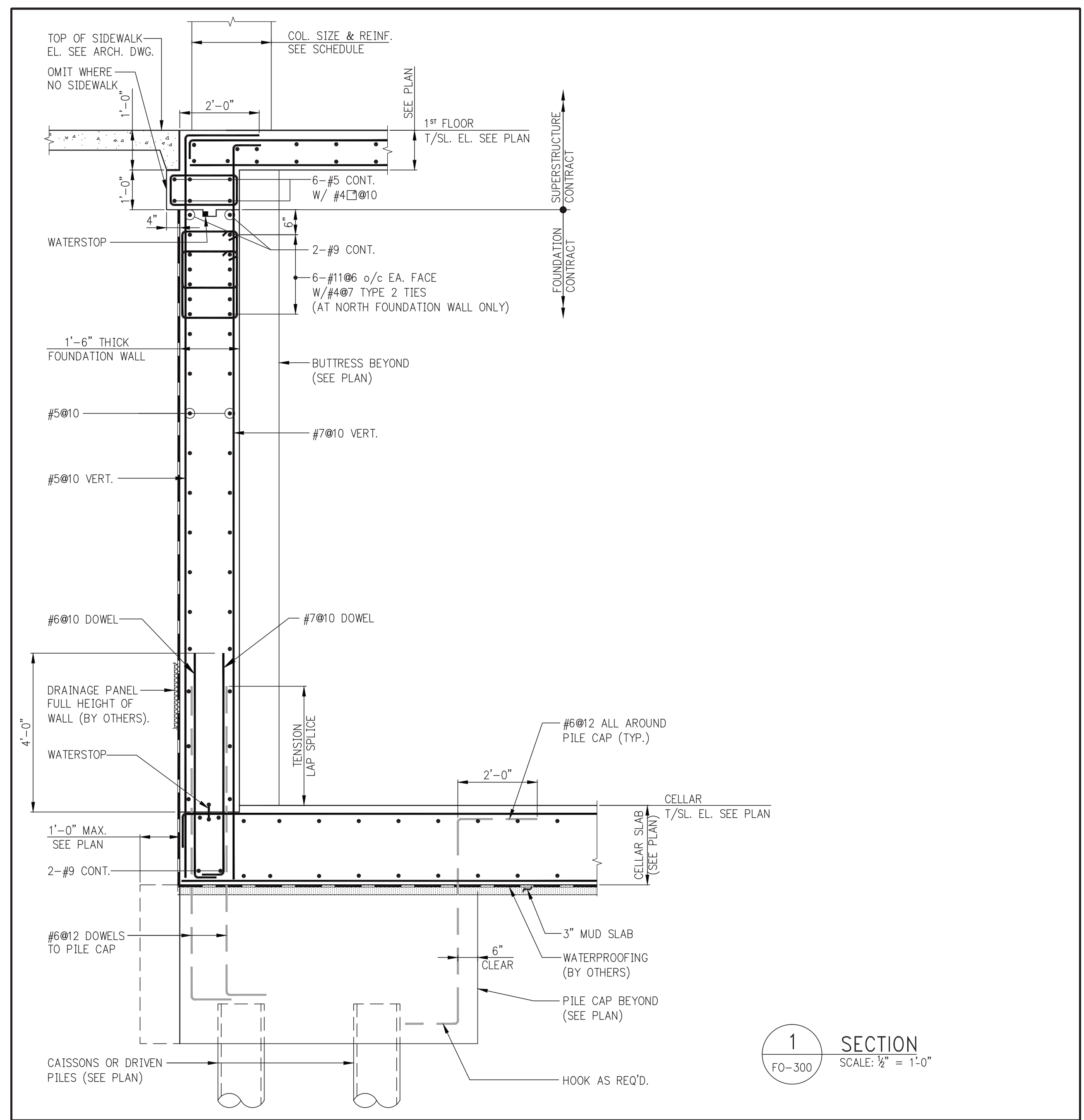
PROJECT: 250 SOUTH STREET NEW YORK, NY

DRAWING TITLE: TYPICAL FOUNDATION DETAILS 6

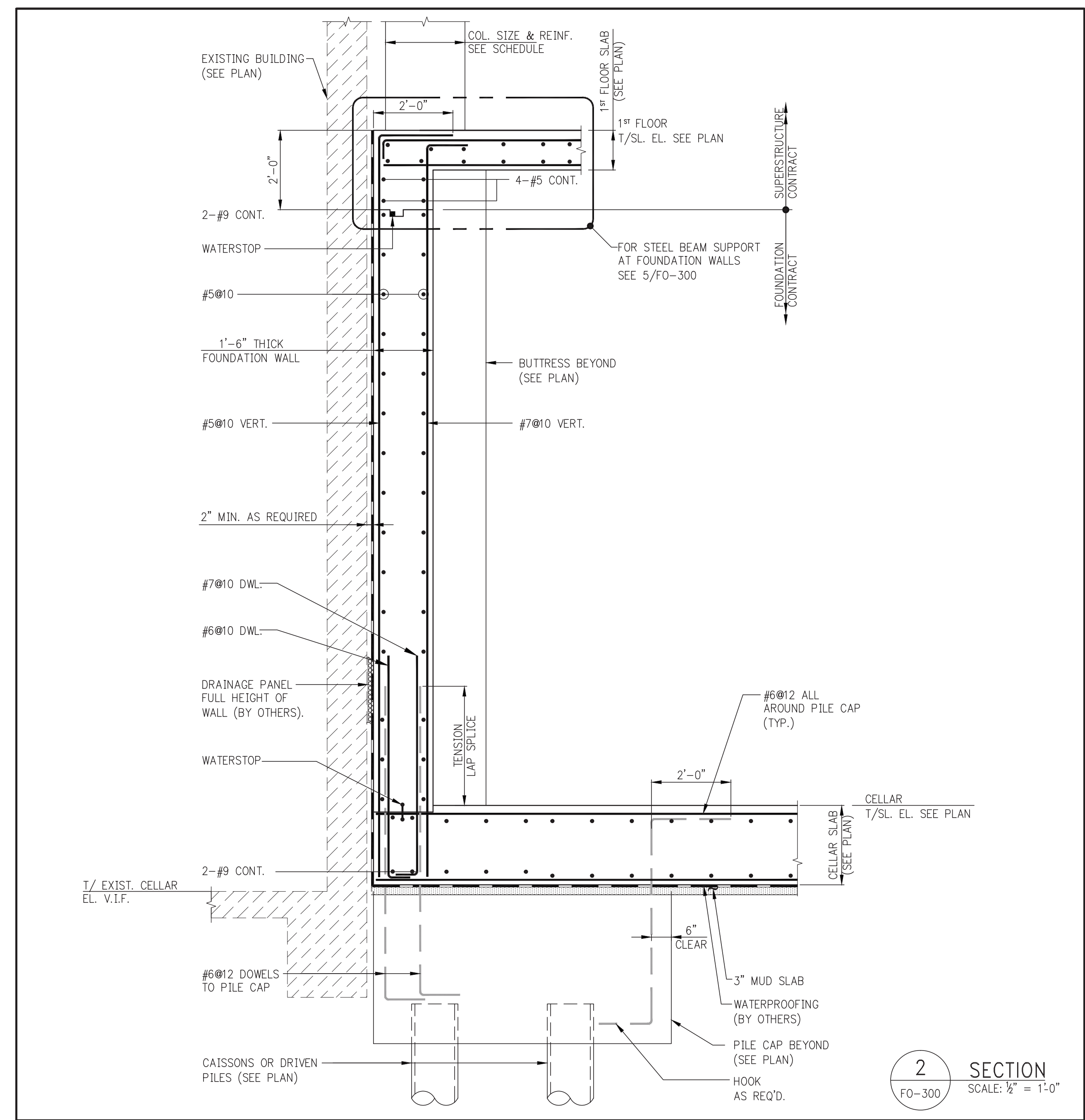
SEAL & SIGNATURE: Damian Titus, Buildings APPROVED Under Directive 2 of 1975, NYC Development Hub. DATE: 07/25/14. PROJECT No: 1302510.

DOB EMPLOYEE STAMP: Damian Titus

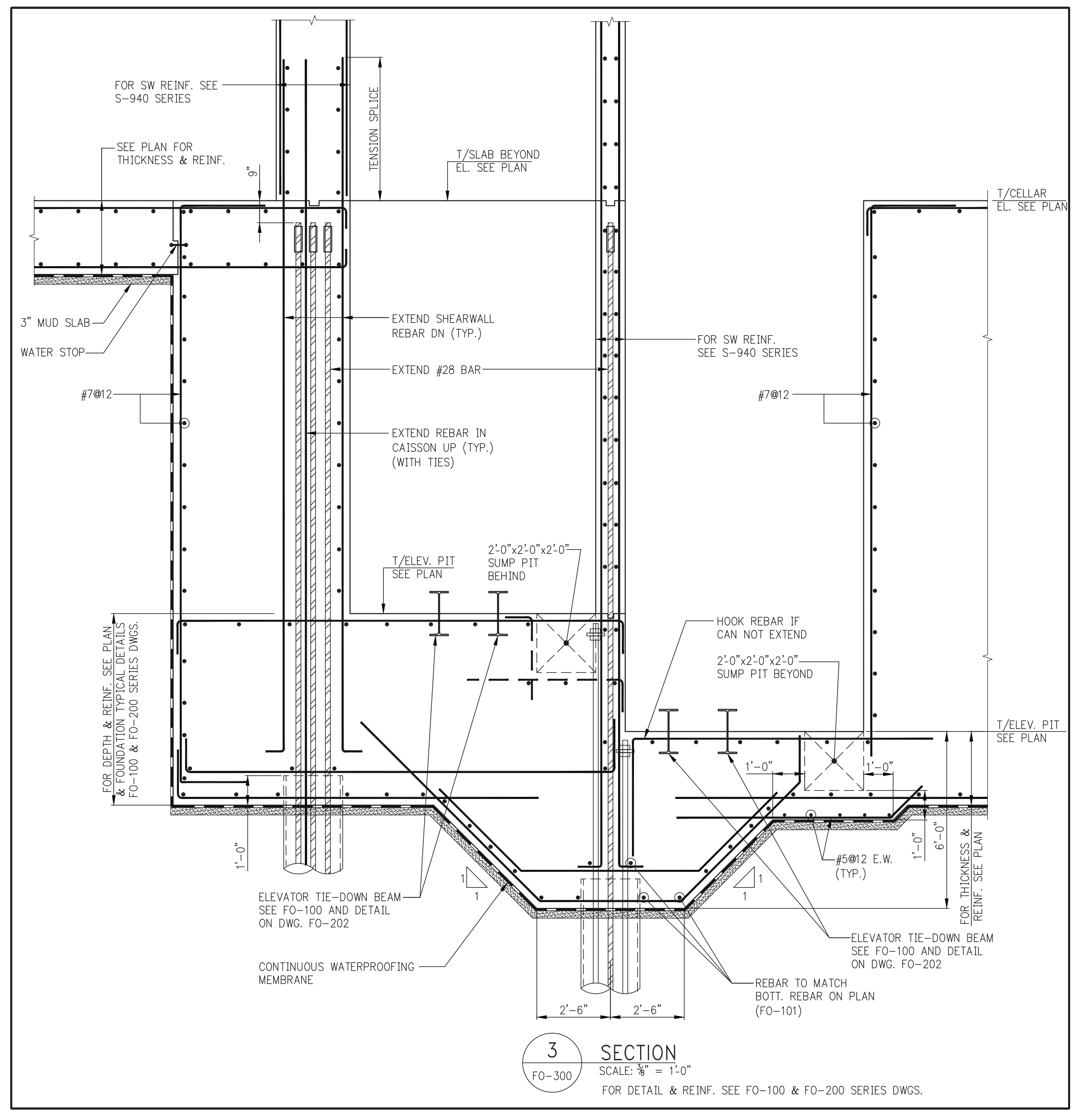
DOB B-SCAN: Buildings APPROVED Under Directive 2 of 1975, NYC Development Hub.



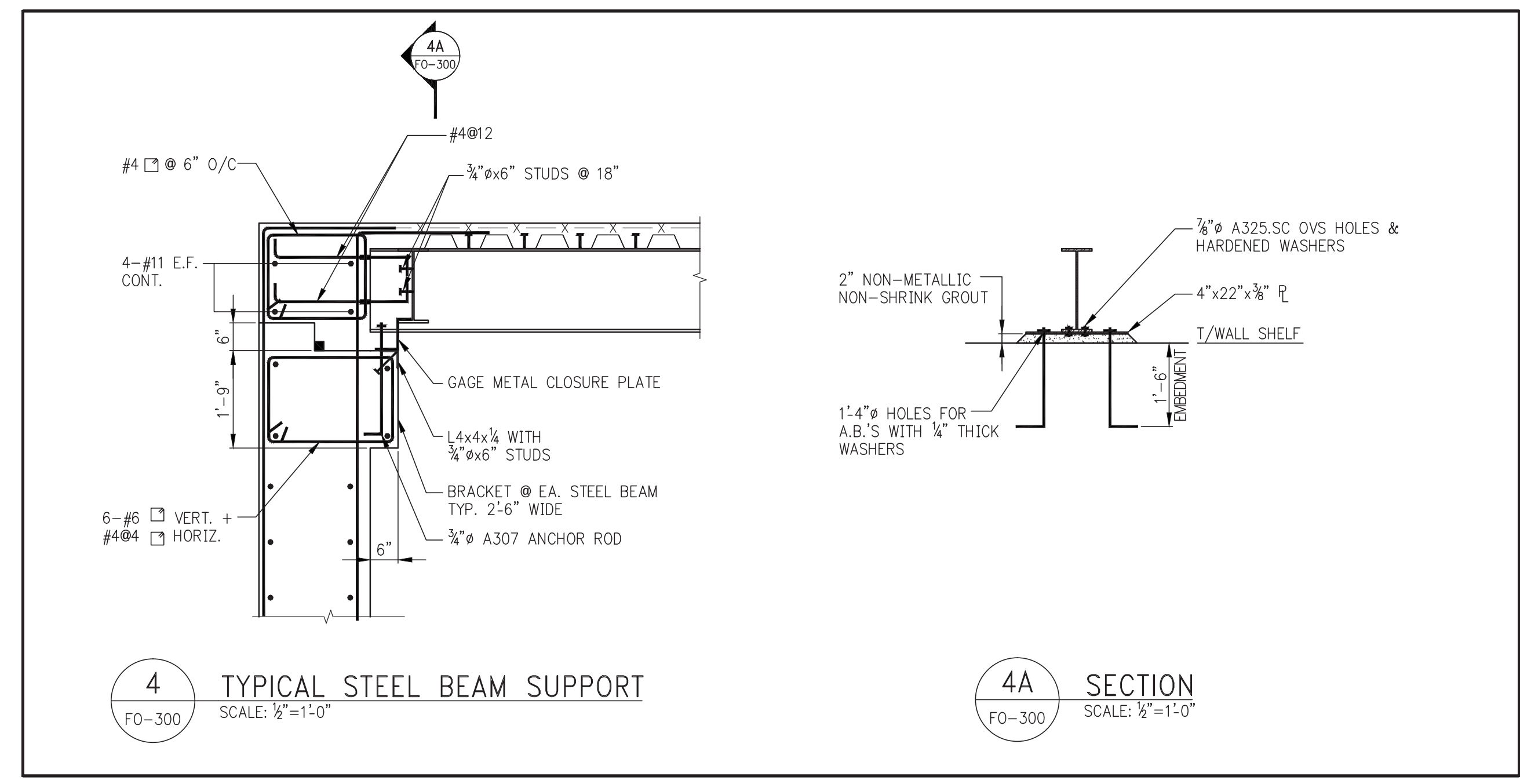
1 SECTION  
FO-300 SCALE: 1/2" = 1'-0"



2 SECTION  
FO-300 SCALE: 1/2" = 1'-0"

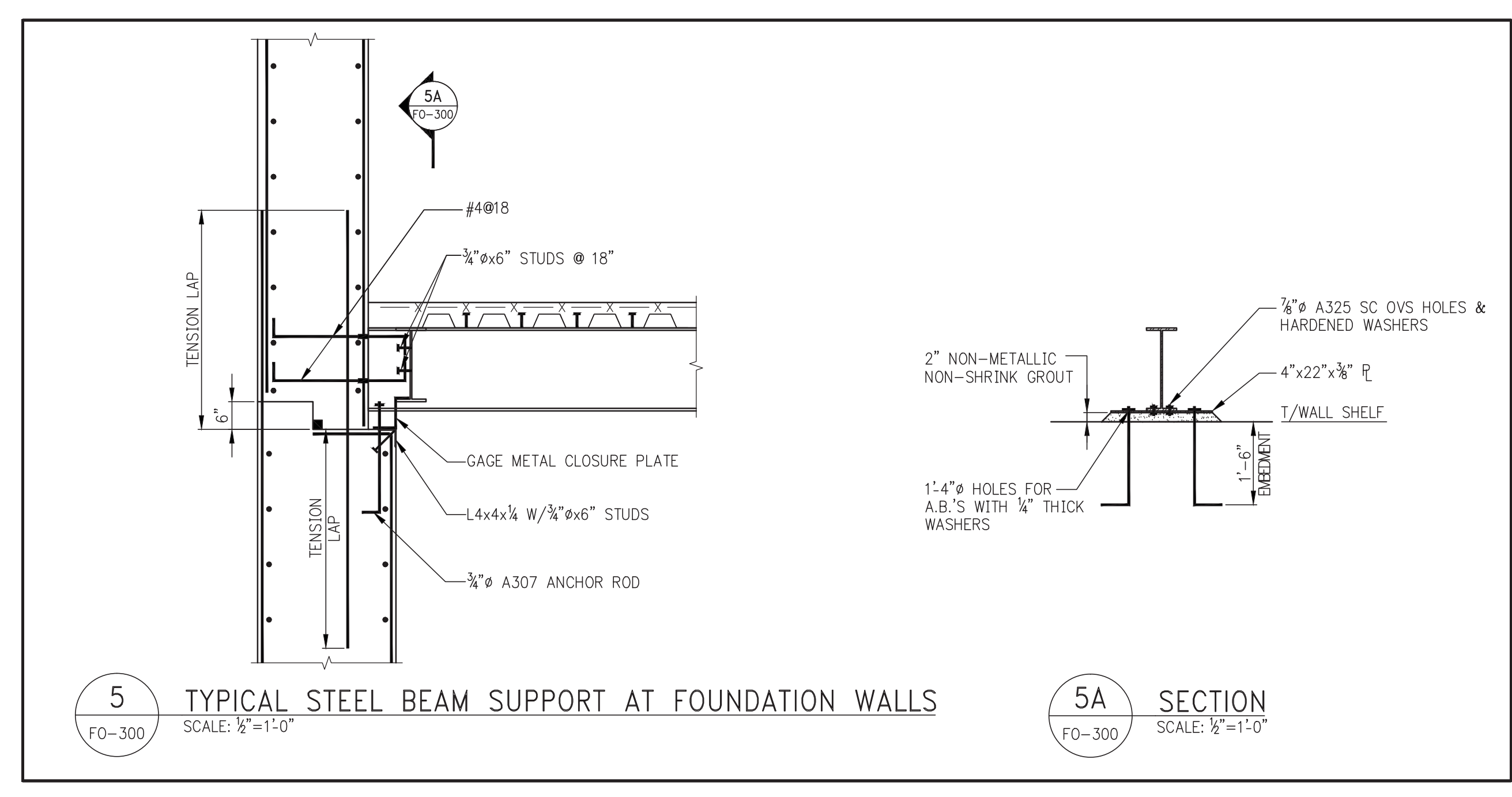


3 SECTION  
FO-300 SCALE: 1/2" = 1'-0"  
FOR DETAIL & REINF. SEE FO-100 & FO-200 SERIES DWGS.



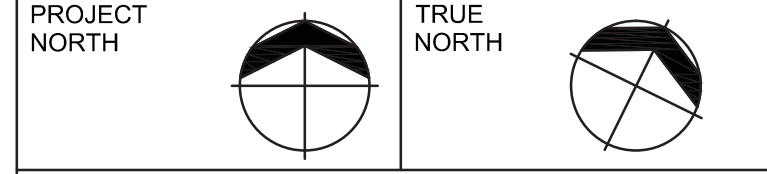
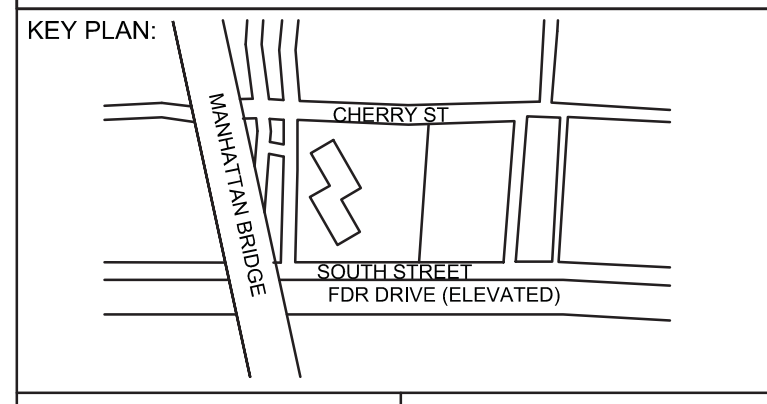
4 TYPICAL STEEL BEAM SUPPORT  
FO-300 SCALE: 1/2" = 1'-0"

4A SECTION  
FO-300 SCALE: 1/2" = 1'-0"



5 TYPICAL STEEL BEAM SUPPORT AT FOUNDATION WALLS  
FO-300 SCALE: 1/2" = 1'-0"

5A SECTION  
FO-300 SCALE: 1/2" = 1'-0"



DEVELOPER:  
**EXTELL DEVELOPMENT COMPANY**  
805 Third Ave, 7th Floor  
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TEL: 212-964-4040 FAX: 212-964-4090

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Iselme, NJ 08830  
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21 Penn Plaza - 360 West 31st Street, 8th Floor  
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No.	DESCRIPTION:	DATE:
1	50% SD	02-28-14
2	100% SD	04-25-14
3	ISSUED FOR DOT	04-28-14
4	FOUNDATION FILING	06-10-14
5	ISSUED FOR FOUNDATION BID	07-25-14
6	50% DD	08-01-14
7	ISSUED FOR DOT	08-07-14
8	ISSUED FOR FOUNDATION BID	08-29-14

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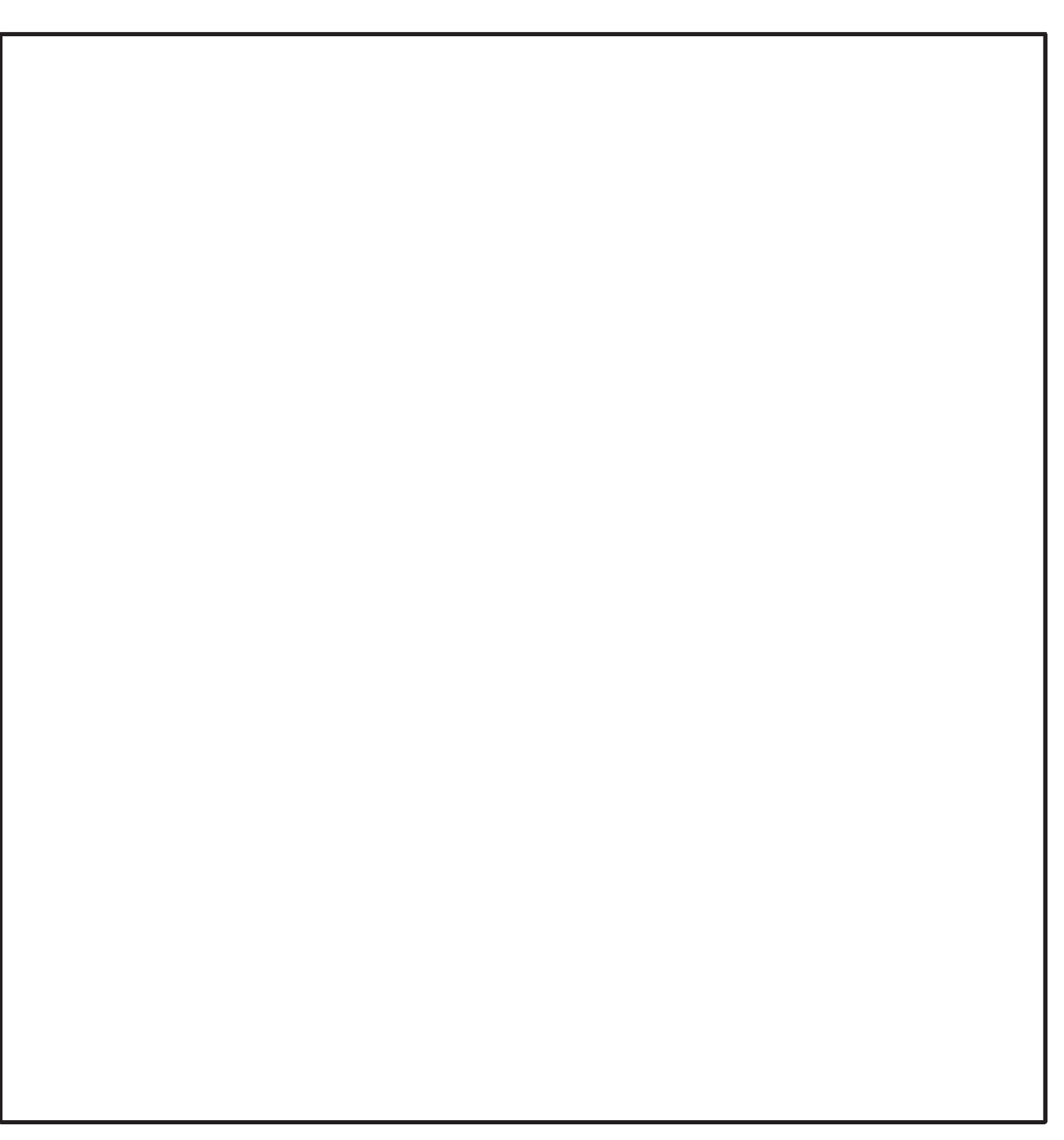
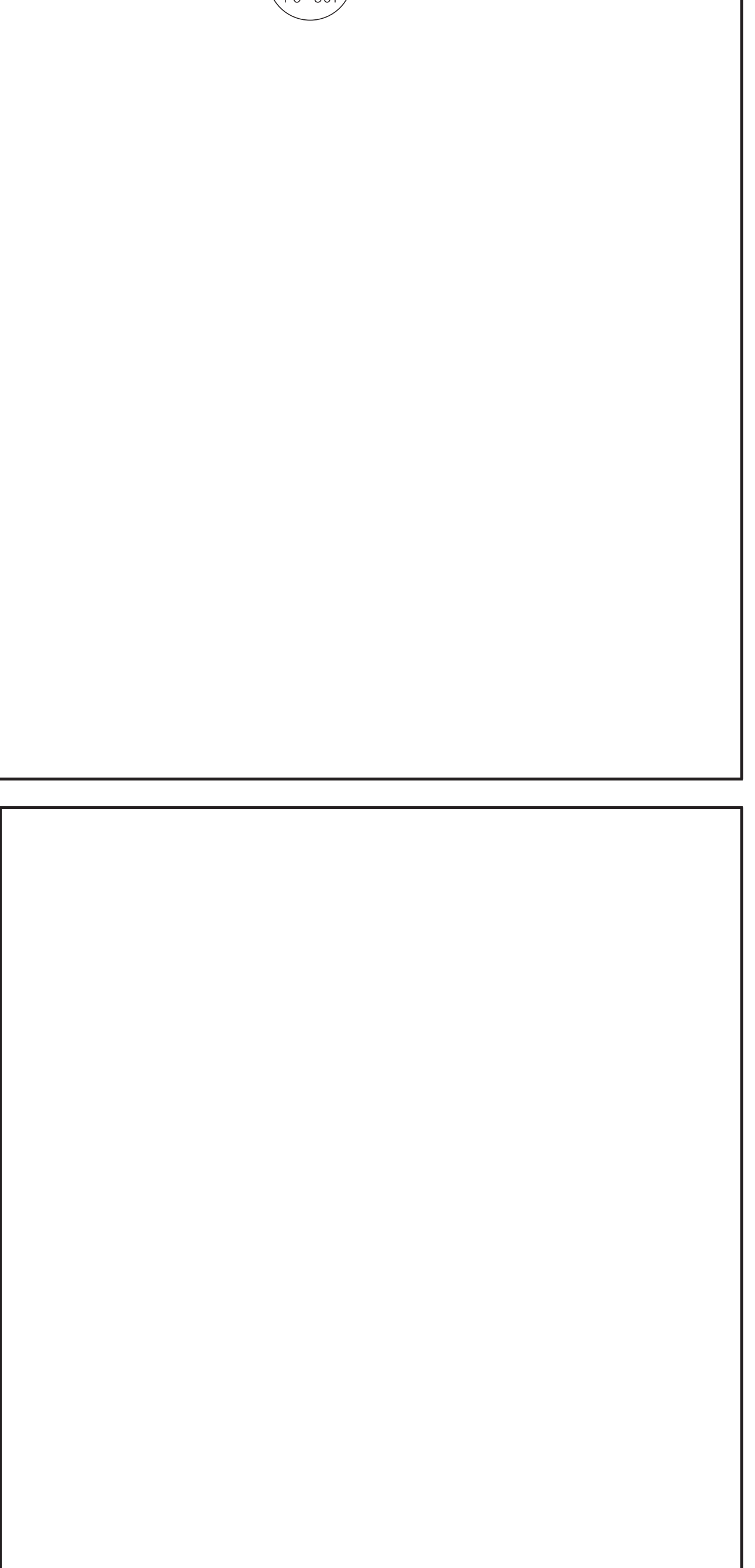
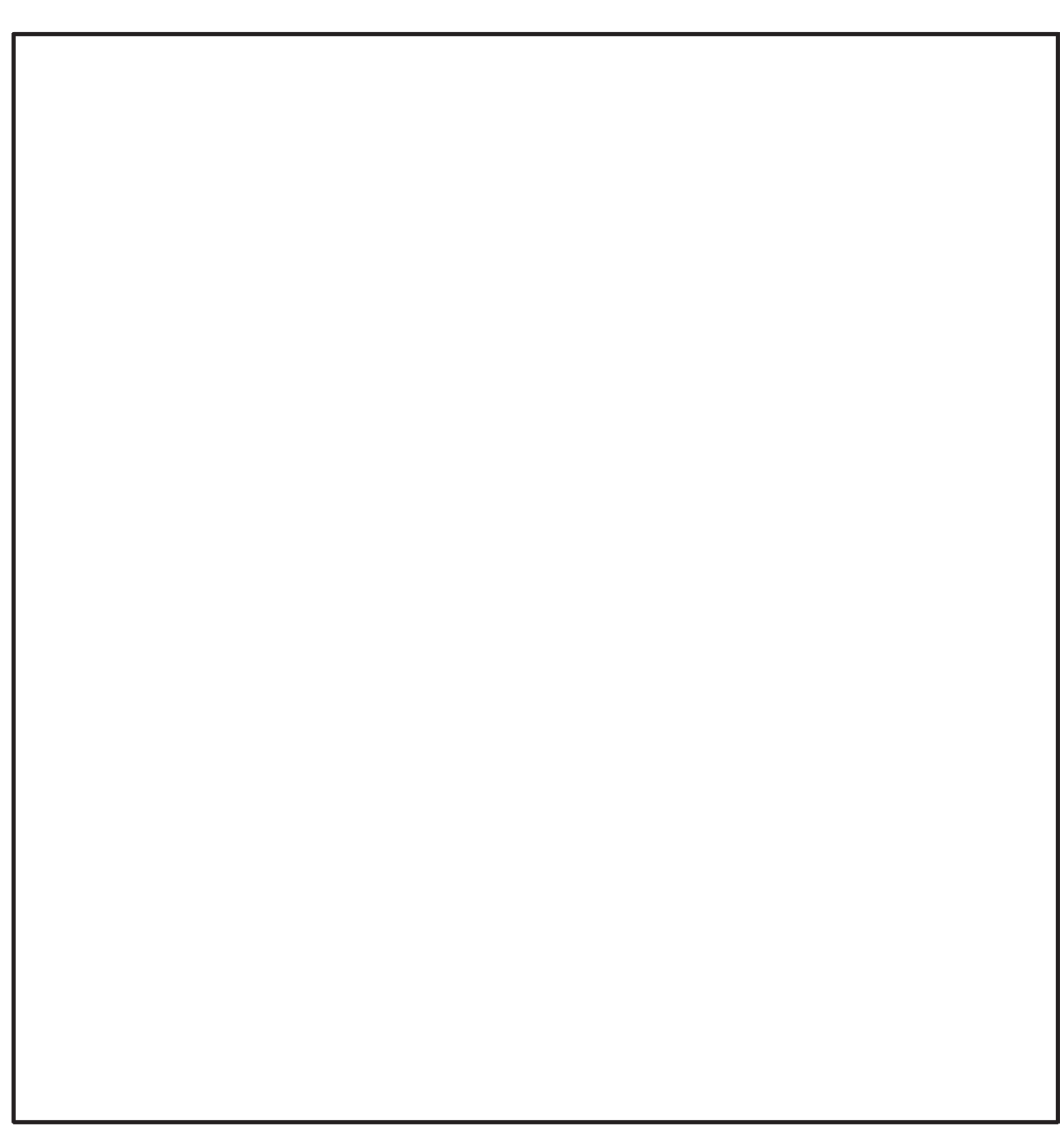
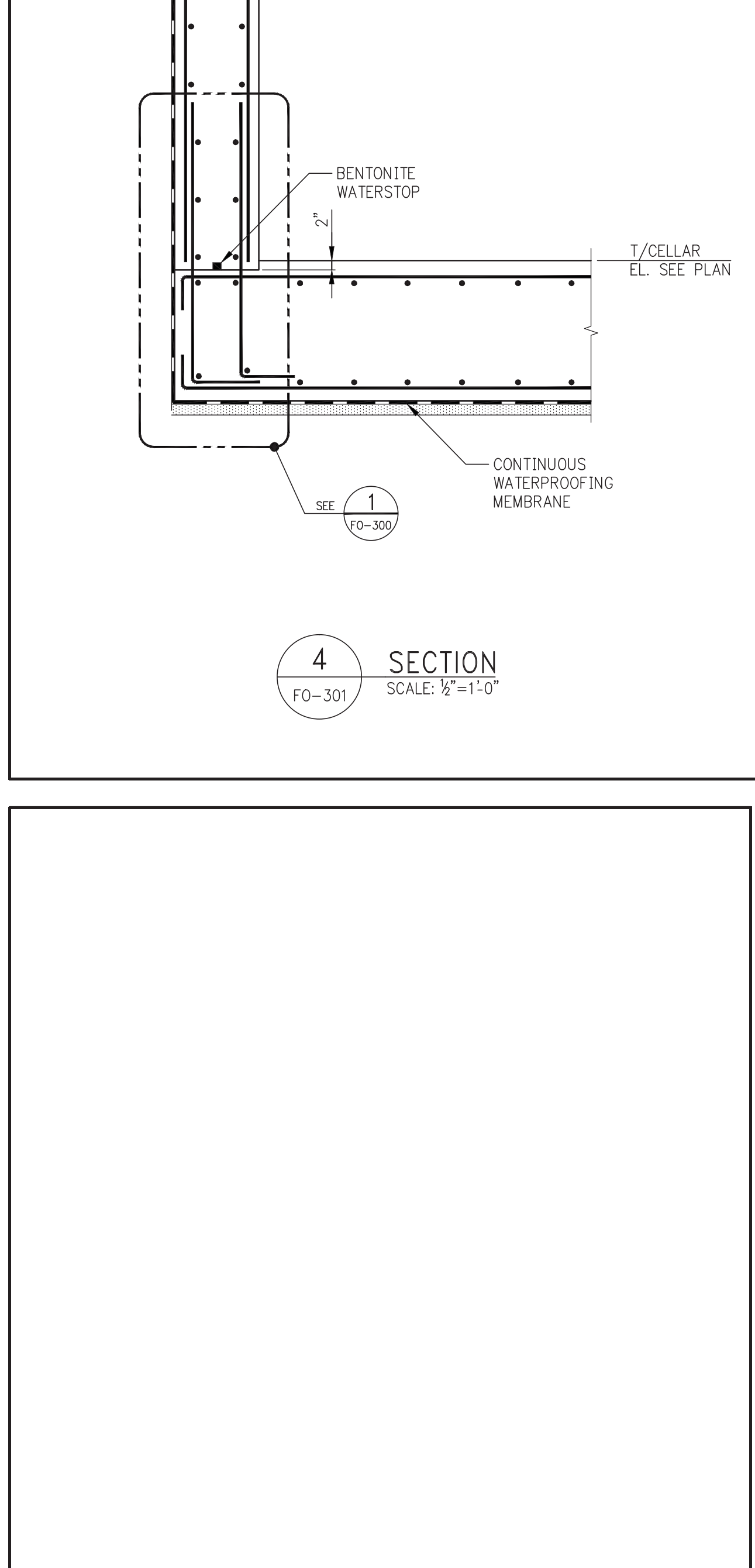
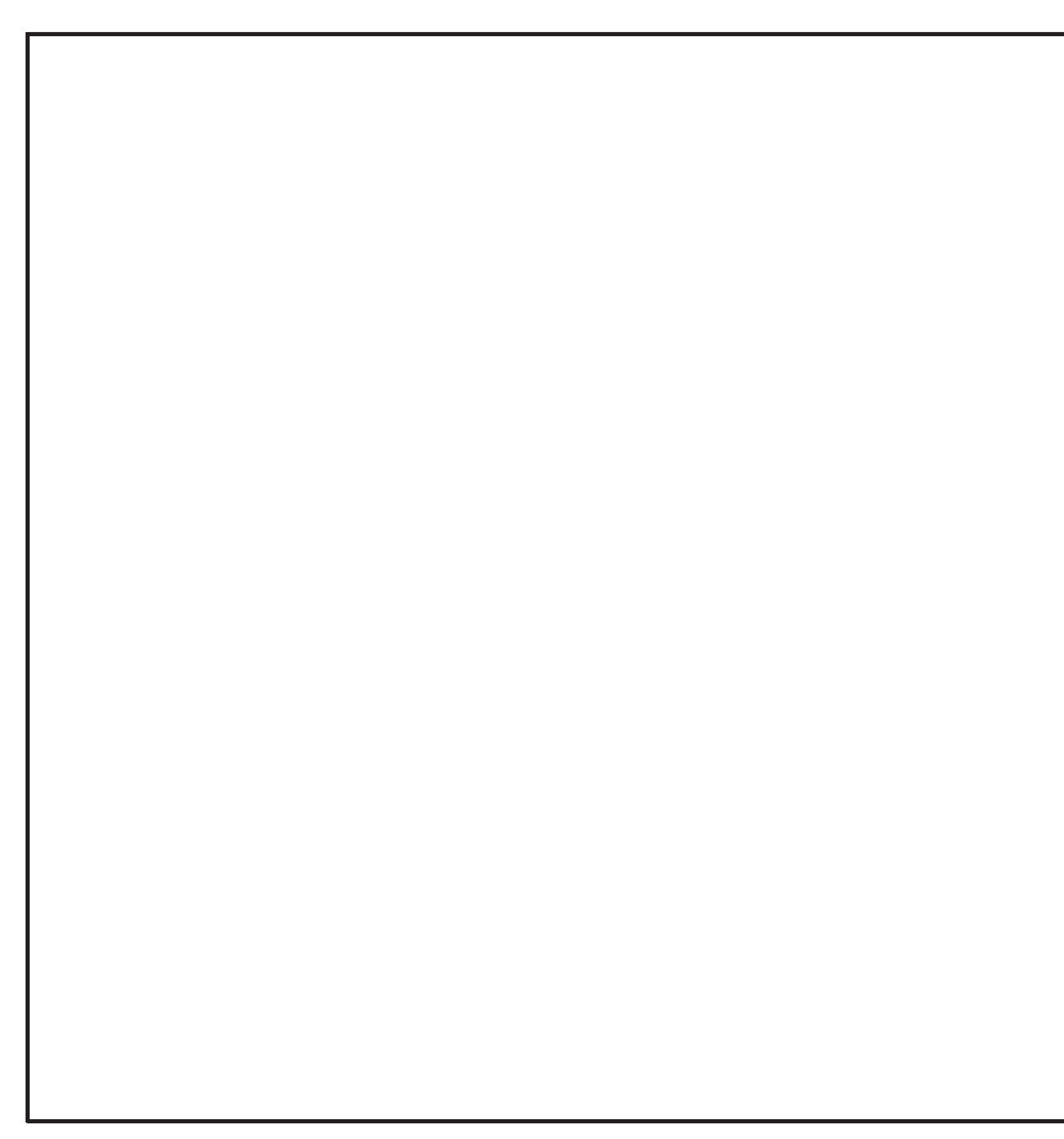
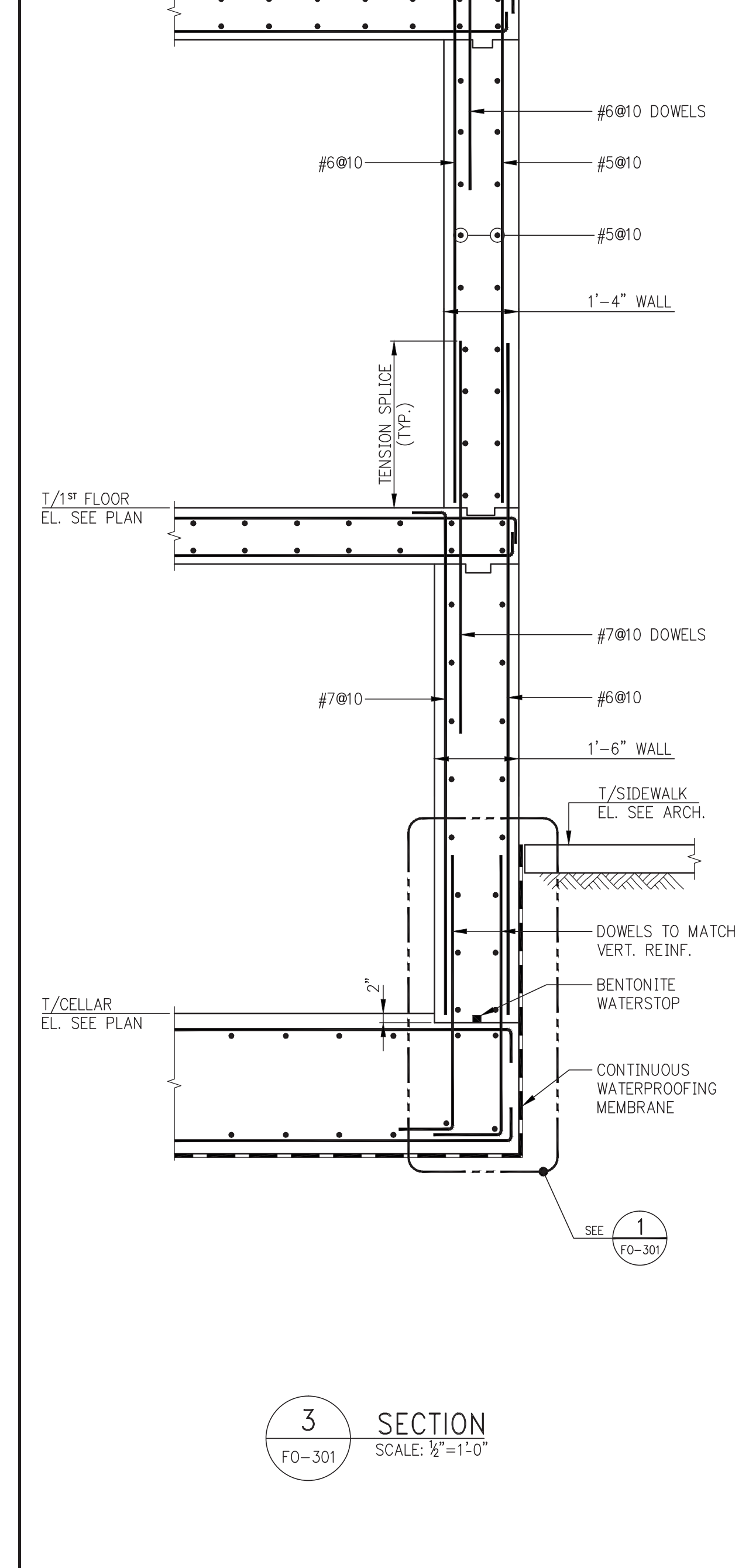
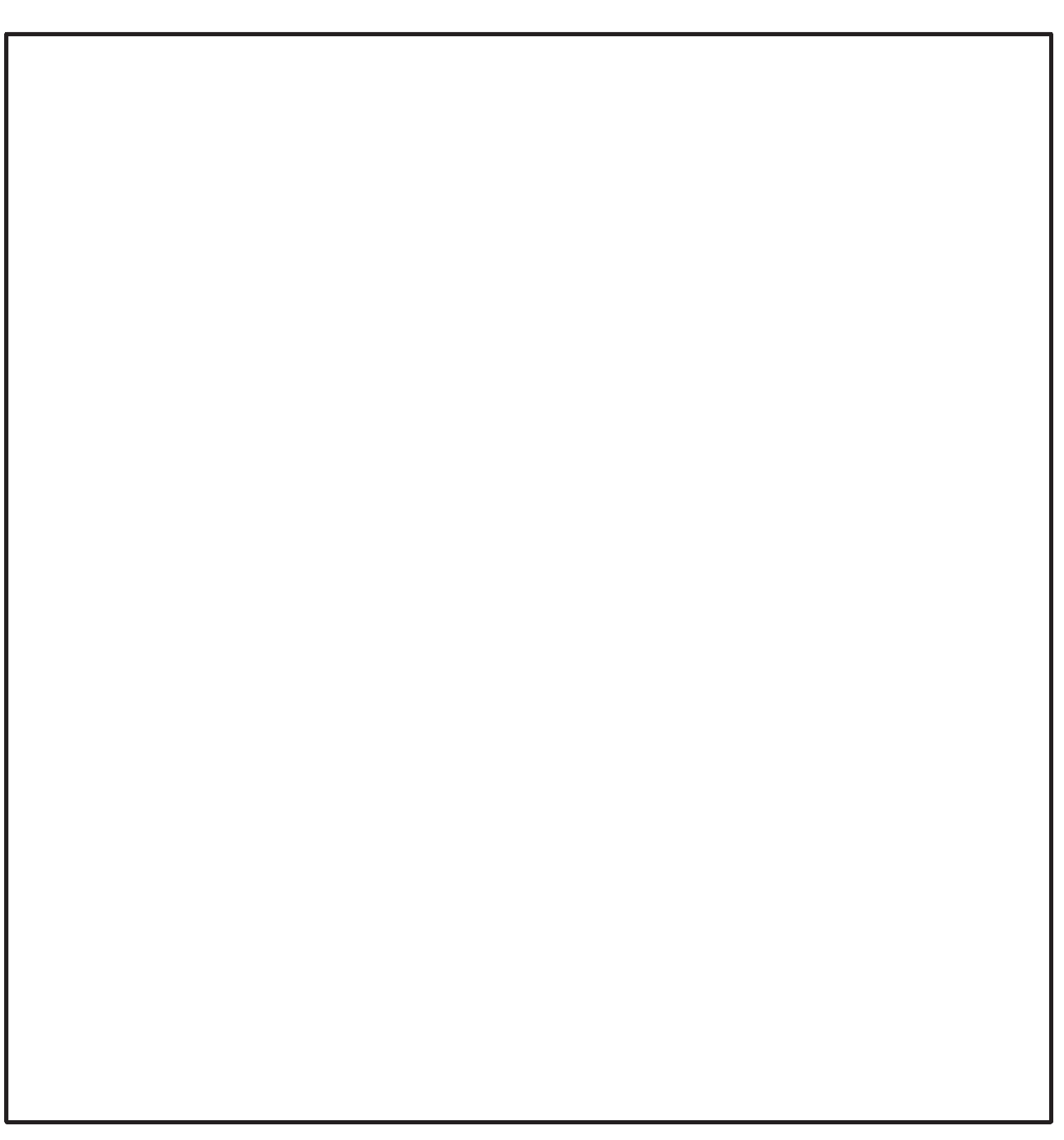
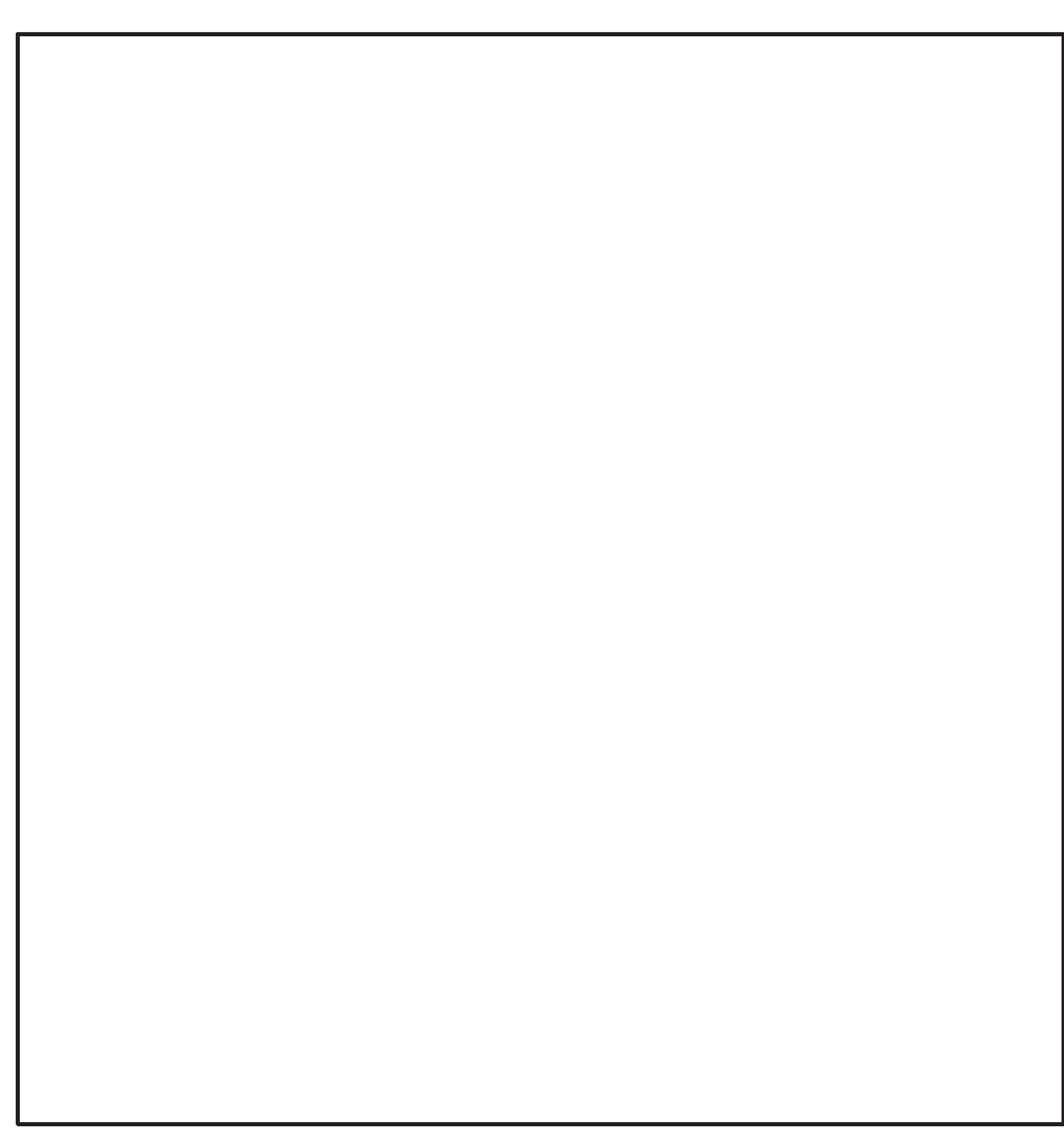
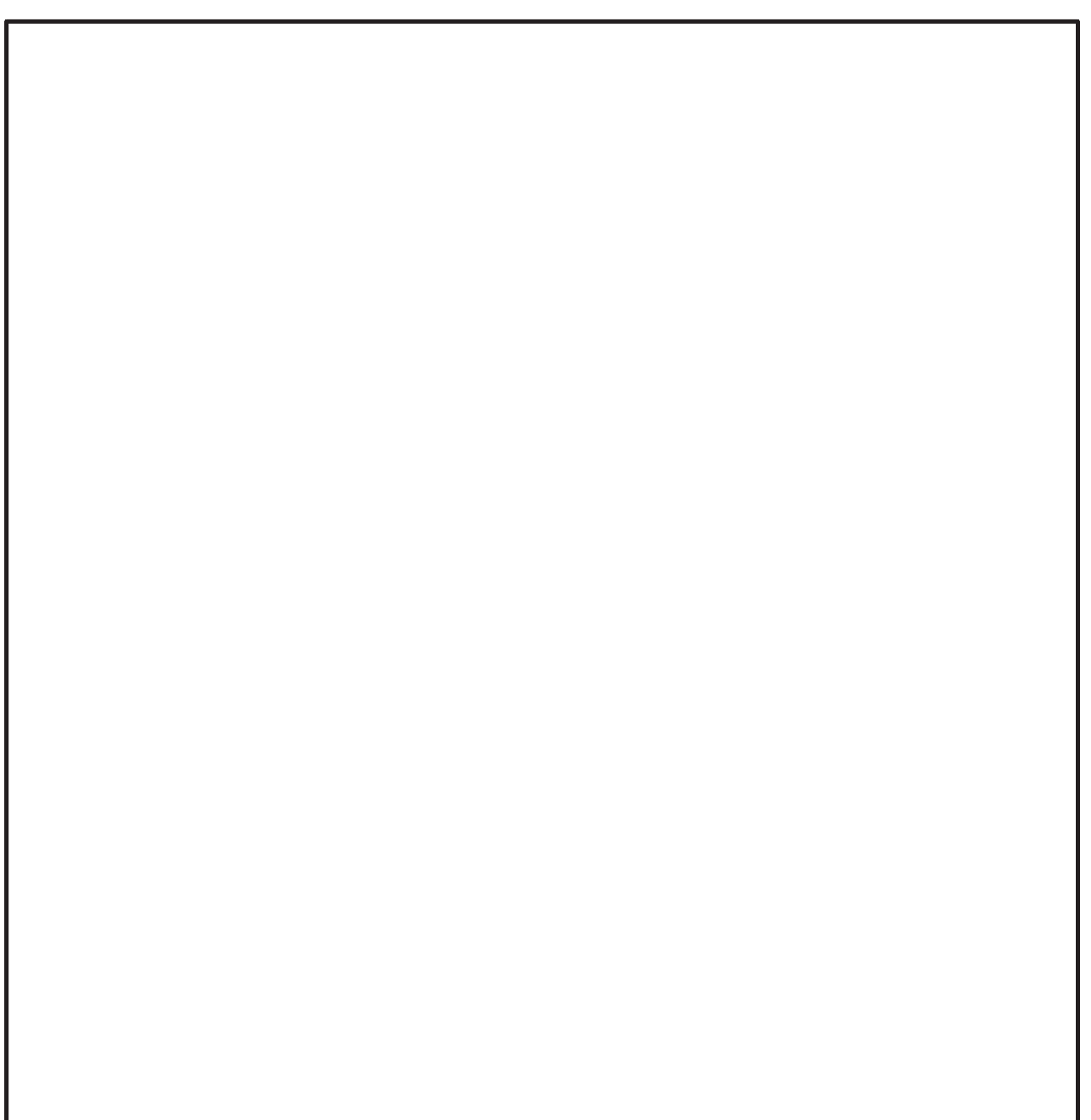
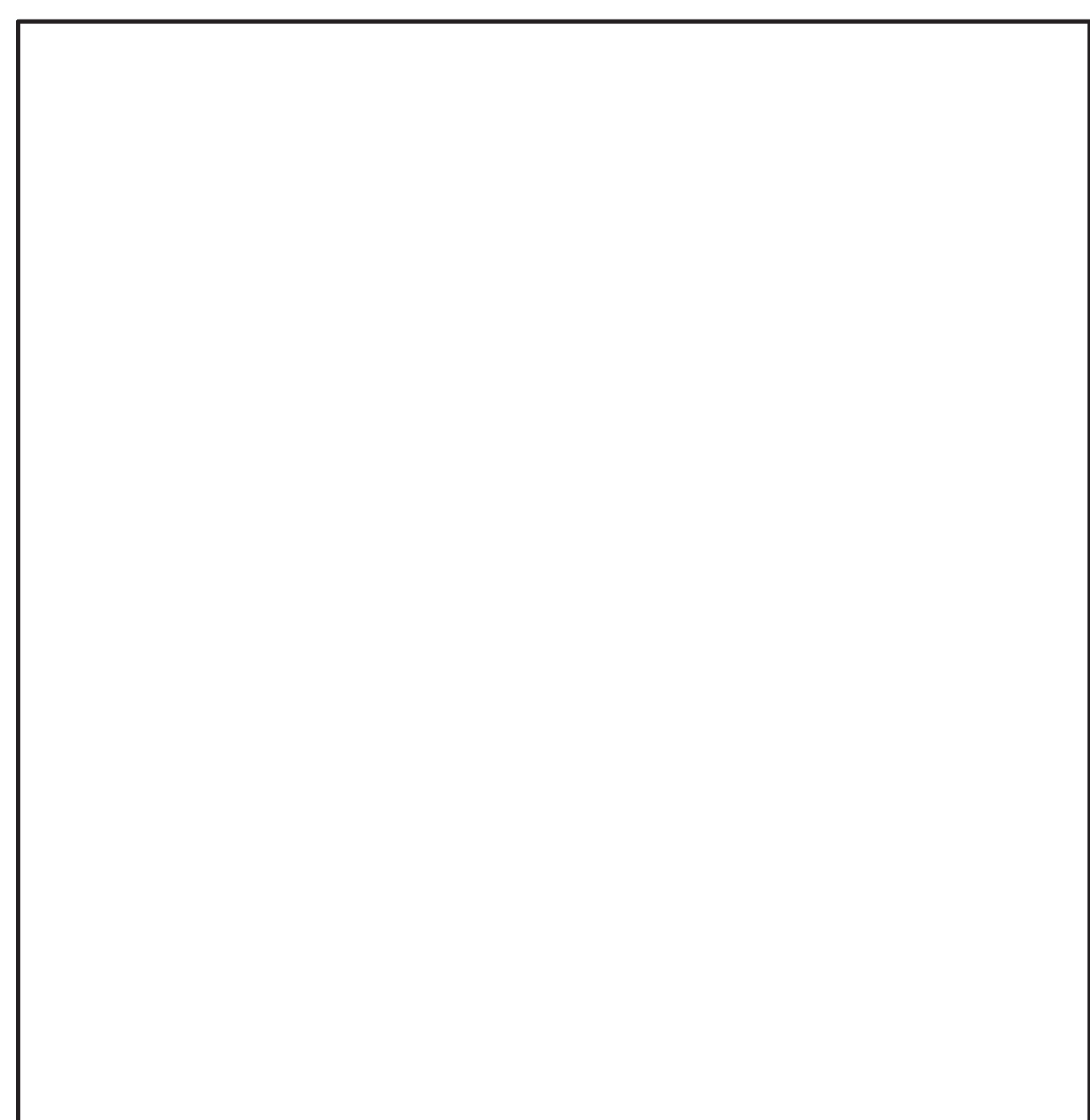
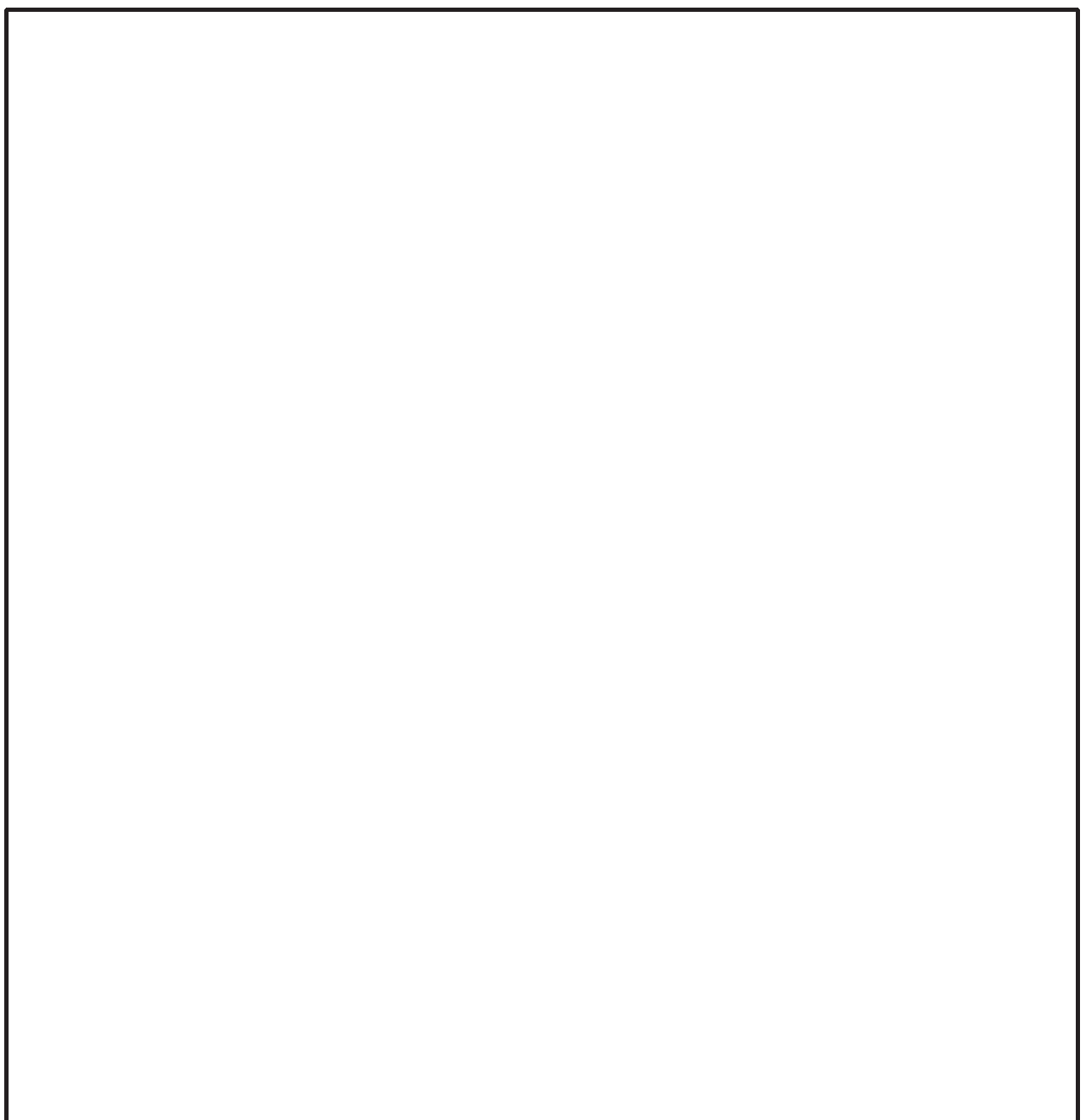
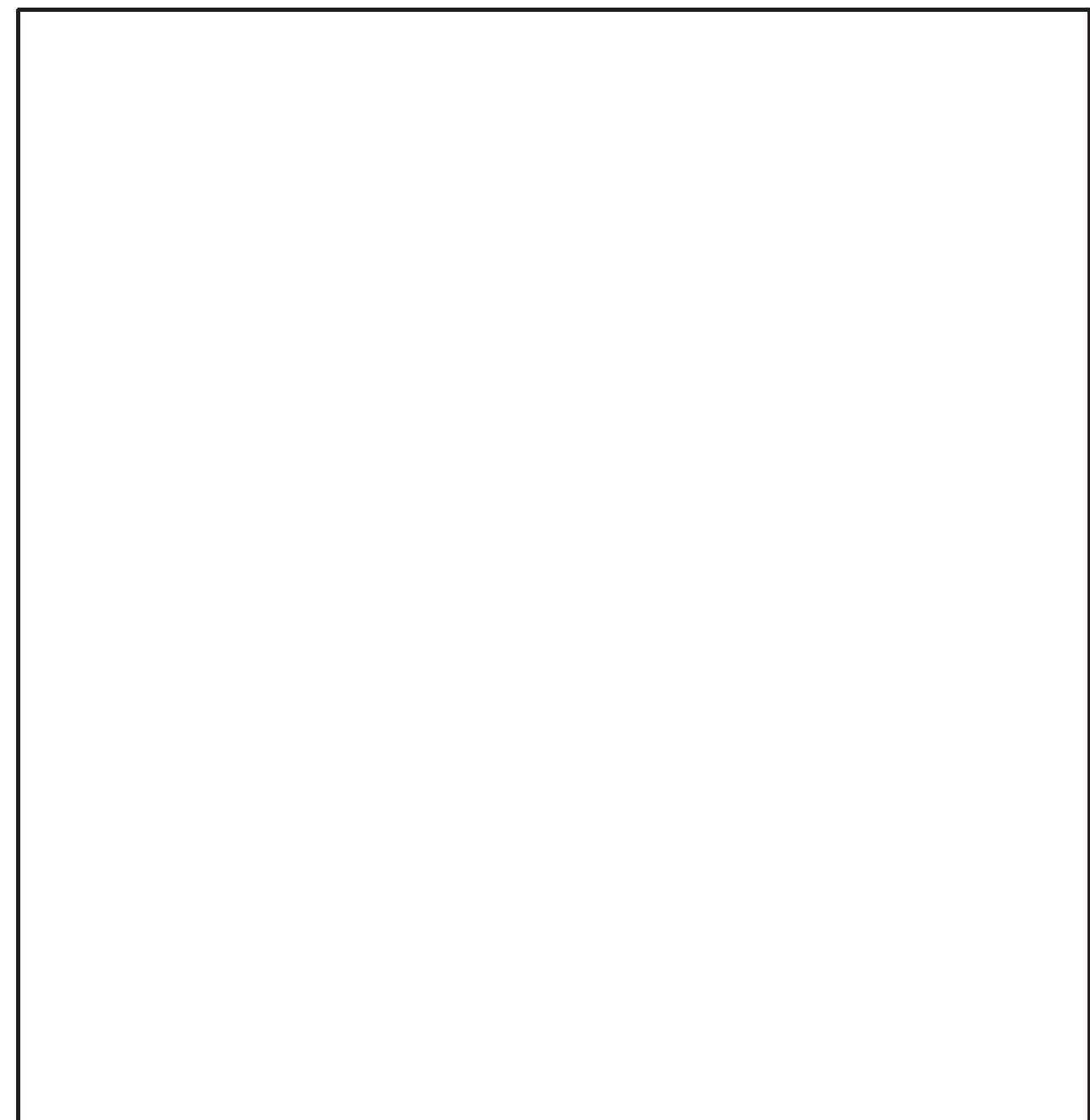
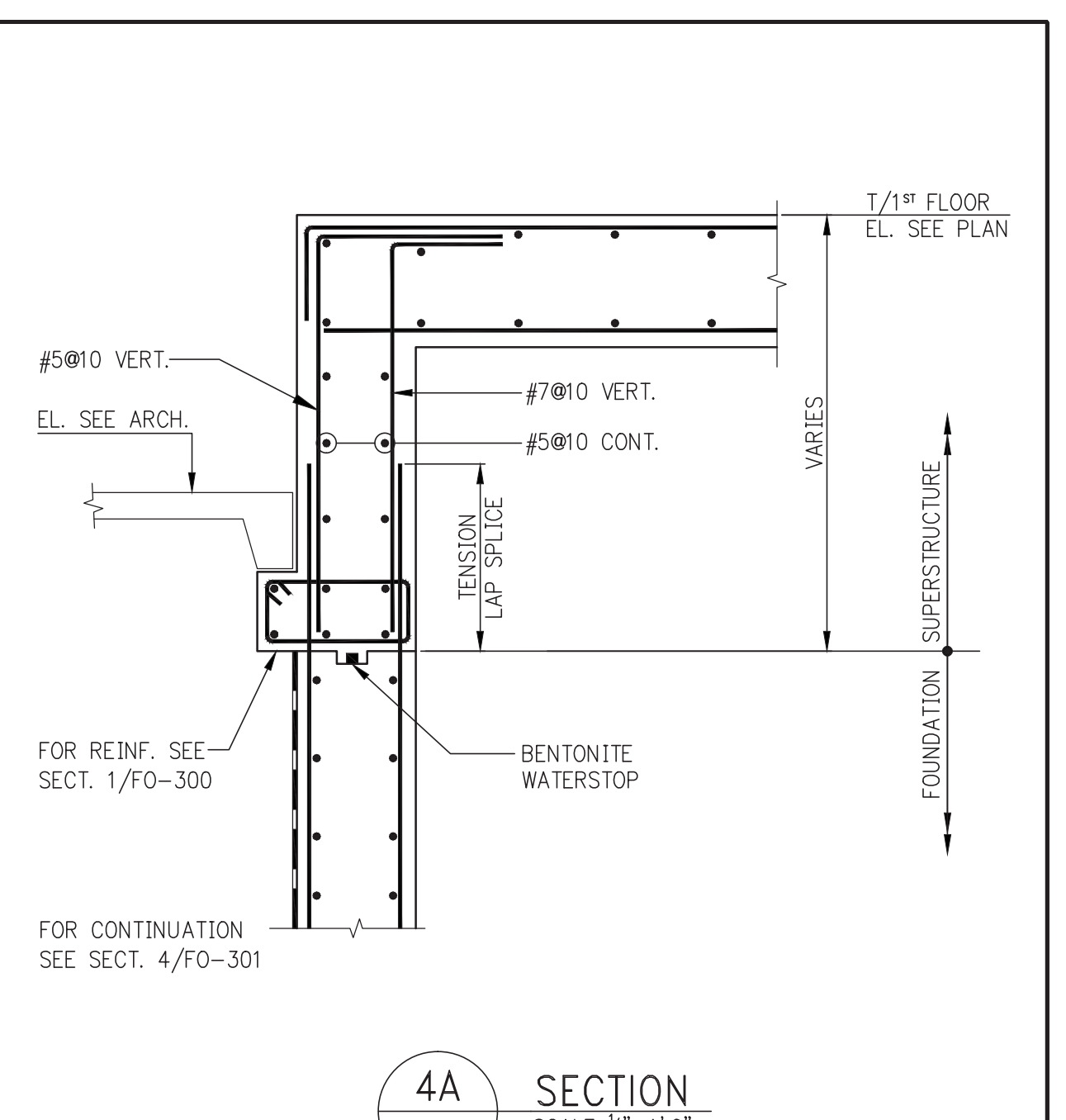
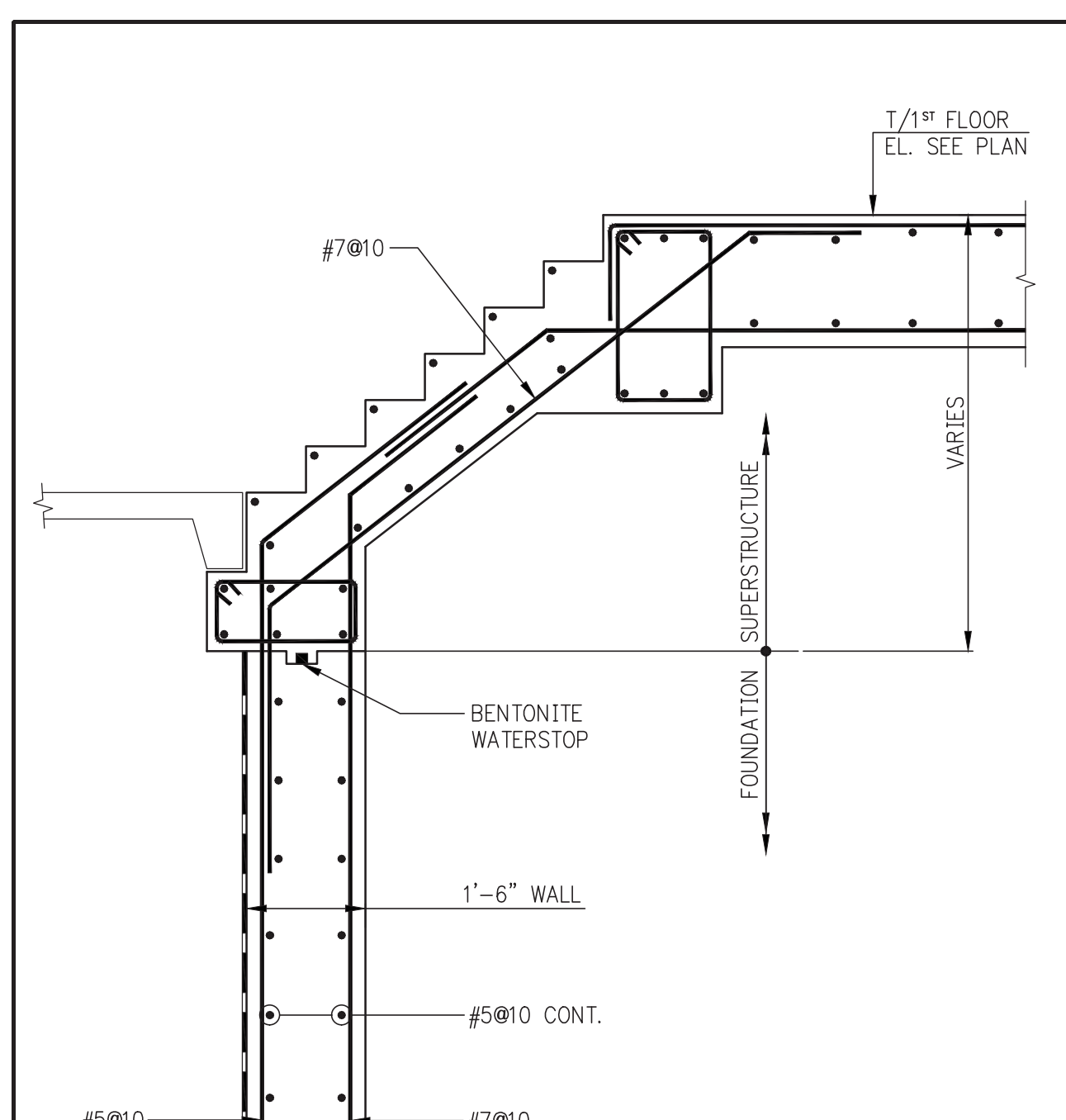
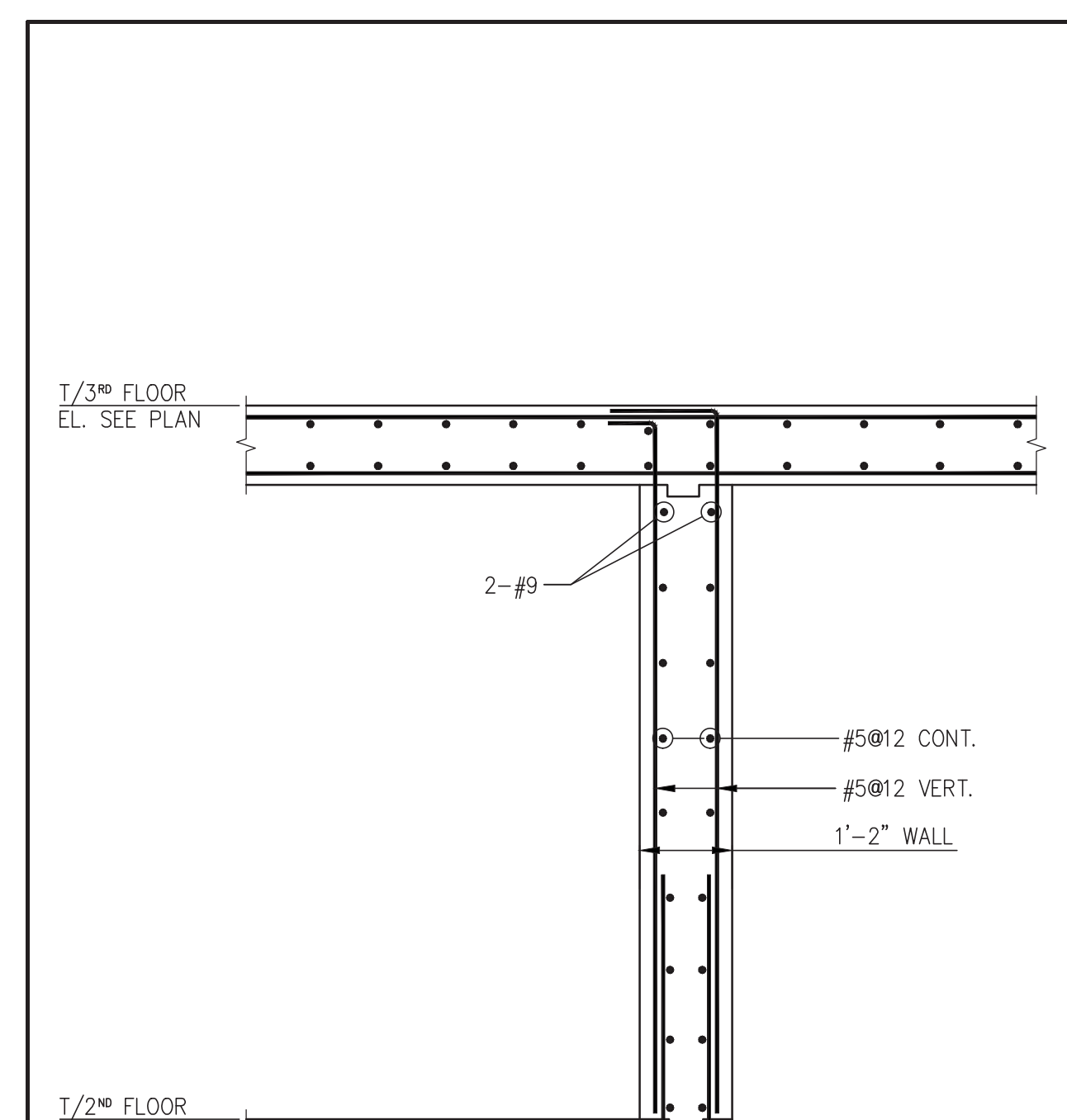
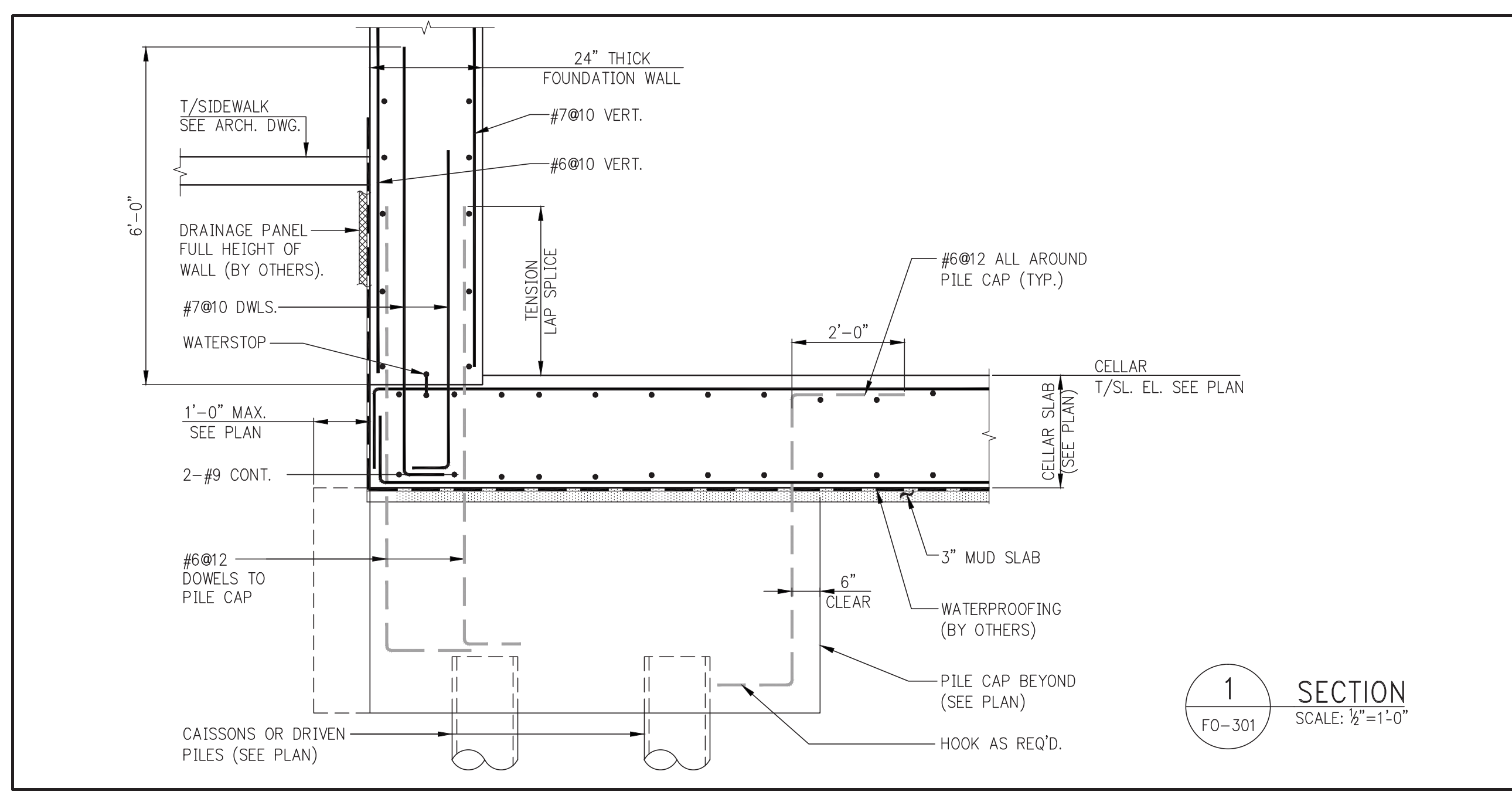
CONSULTANT:  
**AAI ARCHITECTS, P.C.**

PROJECT:  
**250 SOUTH STREET  
NEW YORK, NY**

DRAWING TITLE:  
**FOUNDATION SECTIONS 1**

SEAL & SIGNATURE: [Professional Engineer Seal] DATE: 07/25/14  
 PROJECT No: 1302510  
 DRAWN: CDD REV: CL  
 CHK: [Signature] SCALE: AS SHOWN  
 DWG No: **FO-300.00**  
 DOB PAGE No: of DOB B-SCAN:

**Damian Titus**  
 Buildings APPROVED  
 Under Directive 2 of 1975  
 Date: 10/15/2014  
 NYC Development Hub



**KEY PLAN:**

**PROJECT:** NORTH  
**TRUE NORTH:** [Symbol]

**DEVELOPER:**  
**EXTELL DEVELOPMENT COMPANY**  
805 Third Ave, 7th Floor  
New York, NY 10022  
TEL: 212-712-6000 FAX: 212-712-6100

**ARCHITECT OF RECORD:**  
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TEL: 212.479.5400 FAX: 212.479.5444

No.	DESCRIPTION:	DATE:
1	ISSUED FOR FOUNDATION BID	08-29-14

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**CONSULTANT:**

**PROJECT:**  
**250 SOUTH STREET**  
NEW YORK, NY

**DRAWING TITLE:**  
**FOUNDATION SECTIONS 2**

SEAL & SIGNATURE	DATE:	07/25/14
	PROJECT No:	1302510
	DRAWN:	CADD REV:
	CHK:	CL
	SCALE:	AS NOTED
	DWG No:	<b>FO-301.00</b>
DOB EMPLOYEE STAMP:		DOB B-SCAN:





670 BERGEN BOULEVARD  
RIDGEFIELD, N.J. 07657  
0: 201-241-2444

227 CHERRY ST.-250 SOUTH ST.  
NEW YORK, NY, 10018

**GENERAL NOTES:**

- ALL ELEVATIONS ARE REFERENCED TO BOROUGH PRESIDENT OF MANHATTAN DATUM (BPM D) WHICH IS 2.75 FEET ABOVE THE NATIONAL GEODETIC SURVEY VERTICAL DATUM OF 1929 (MEAN SEA LEVEL, SANDY HOOK, NEW JERSEY) + 100.0' FOR NEW YORK CITY TRANSIT AUTHORITY COORDINATION (EXAMPLE, BPM D EL. 65.0' = NYCTA 165.0').
- PROPOSED FINISHED FIRST FLOOR ELEVATION IS 106.55. PROPOSED FLOOR ELEVATIONS WITH EQUIVALENT DIMENSIONS SHOWN IN PARENTHESSES IN SECTIONS AND ELEVATIONS ARE MEASURED DOWN FROM FINISHED FIRST FLOOR ELEVATION (0'-0"), PER STRUCTURAL PLANS.
- BASE PLANS AND SECTIONS ARE DEVELOPED FROM:
  - STRUCTURAL AND FOUNDATION DRAWINGS BY WSP OF NY, NY, DATED 06.10.2014.
  - SURVEY DRAWING BY EARL B. LOVELL S.P. BELCHER, INC. OF NEW YORK, NY, DATED 04.03.2013.
  - SURVEY DRAWING FOR STEAM PIPE BY NEW YORK CITY LAND SURVEYORS, PC. PF STATEN ISLAND, NY, DATED 06-23-14
  - BORING LOCATION PLAN BY LANGAN ENGINEERING, DATED 01.02.2014.
- SOIL DATA OBTAINED FROM:
  - GEOTECHNICAL REPORT BY LANGAN ENGINEERING, DATED 01.02.2014, INCLUDING BORINGS AND TEST PITS.
- LOCATION OF EXISTING AND PROPOSED CONDITIONS INCLUDING BUT NOT LIMITED TO FOUNDATION WALL, FOOTINGS AND SLAB LOCATIONS AND ELEVATIONS WERE TAKEN FROM DRAWINGS AND INFORMATION REFERENCE ABOVE.
- LOCATIONS AND ELEVATIONS OF ALL STRUCTURAL BUILDING ELEMENTS SHOWN ON THIS DRAWING MAY BE APPROXIMATE AND SHALL BE SUPERSEDED BY FINAL STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITIES AND BELOW GROUND STRUCTURES IN THE AREA OF PRIOR TO COMMENCEMENT OF WORK.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS IN THE FIELD. IF CONDITIONS OBSERVED IN THE FIELD DIFFER FROM THESE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO EVALUATE THE CONDITION. MODIFICATIONS TO THESE DRAWINGS MAY BE NECESSARY.
- THESE DRAWINGS DO NOT ADDRESS SAFETY ISSUES RELATED TO THE EXCAVATION AND SHORING WORK. OTHERS SHALL BE RESPONSIBLE FOR SITE SAFETY AND PROVIDE A SAFETY PLAN CONFORMING TO OSHA AND ALL APPLICABLE LAWS.
- BARRIERS AND FENCING AROUND SITE MUST BE PROVIDED BY CONTRACTOR IN ACCORDANCE WITH NEW YORK CITY DEPARTMENT OF BUILDINGS AND ALL APPLICABLE LAWS.
- IF THE CONDITIONS OBSERVED AS THE EXCAVATION ADVANCES ARE DIFFERENT THAN THE CONDITIONS SHOWN ON THE DESIGN DRAWINGS, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER TO ADDRESS FIELD CONDITIONS.
- OBSERVED MOVEMENTS OF THE SUPPORT OF EXCAVATION OR OTHER STRUCTURES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER.
- LOOSE AREAS OF FOUNDATION WALL OR FOOTINGS THAT ARE DAMAGED OR LOOSE SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR EVALUATION AND REMEDIAL MEASURES BY THIS OFFICE OR AT DIRECTION OF FIELD PROFESSIONAL ENGINEER.
- PINS, WIRE MESH, AND PARGING MAY BE REQUIRED TO STABILIZE THE FOUNDATION WALL OR FOOTINGS NOT INDICATED IN THESE DRAWINGS.
- ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.1 USING E-70 ELECTRODES.
- ALL STRUCTURAL STEEL SHALL BE GRADE 50, ASTM A-572.
- ALL PLATES OR MISCELLANEOUS STEEL SHALL BE GRADE 36, ASTM A36.
- 1-BAG MIX SHALL CONSIST OF 1-94 LB. BAG OF CEMENT TO 1 CY OF SAND. QUANTITY OF WATER SHALL BE ADEQUATE TO ALLOW THE MIX TO FLOW.
- THE DESIGNS ON THESE DRAWINGS ARE INTENDED FOR TEMPORARY SUPPORT OF EXCAVATION ONLY.
- NOTIFY DOB 24 TO 48 HOURS PRIOR TO EXCAVATION (RULE 52).

**TIE BACKS AND STRESSED ANCHORAGES:**

- CONTRACTOR IS FULLY RESPONSIBLE FOR THE VERIFICATION OF EXISTING UTILITIES AND OTHER EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF DRILLING OPERATIONS.
- STRESSED/LOADED TIE BACK ANCHORAGES SHALL BE GRADE 150ksi, ASTM A722 THREADED BARS, OR APPROVED EQUIVALENT. ALTERNATE HOLLOW CORE, SELF DRILLING ANCHORS ARE ALSO INDICATED IN THESE DRAWINGS, OR APPROVED EQUIVALENT.
- BAR DIAMETERS INDICATED IN THESE DRAWINGS SHALL BE THE MINIMUM SIZE USED. LARGER DIAMETERS MAY BE SUBSTITUTED WITHOUT PRIOR APPROVAL OF ENGINEER.
- DRILL HOLES INDICATED IN THESE DRAWINGS SHALL BE THE MINIMUM PROVIDED. A CHANGE IN DRILL HOLE DIAMETER WILL EFFECT THE REQUIRED BOND LENGTHS INDICATED.
- BOND LENGTHS INDICATED IN THESE DRAWINGS SHALL BE MINIMUM, AND MAY BE SUBJECT TO CHANGE AND/OR VERIFICATION AT DIRECTION OF FIELD PROFESSIONAL ENGINEER.
- THE FIRST TIE-BACK INSTALLED, AND 1% REMAINING ANCHORS SHALL BE SUBJECT TO PERFORMANCE TESTING, UNDER LATEST POST TENSIONING INSTITUTE (PTI) RECOMMENDATIONS FOR SOIL AND ROCK ANCHORS.
- THE BALANCE OF INSTALLED TIE-BACKS SHALL BE PROOF-TESTED TO LOAD VALUES INDICATED ON THESE DRAWINGS.
- ANCHORAGES SUPPORTING THE EXISTING FOUNDATION WALL MAY BE EXEMPT FROM TESTING TO AVOID UNNECESSARY OVERSTRESSING OF THE EXISTING WALL CONSTRUCTION, AT DIRECTION OF FIELD ENGINEER. THESE ANCHORAGES SHALL BE INSTALLED, AND STRESSED TO LOCK-OFF LOADING INDICATED.
- ALL ANCHORAGE STRESSING SHALL BE CONDUCTED USING A CALIBRATED CENTER HOLE HYDRAULIC JACK CAPABLE OF EXCEEDING MAXIMUM TESTING LOADS INDICATED IN THESE DRAWINGS.
- CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING SAFE ENVIRONMENT DURING TESTING, AND ALSO PROVIDING REQUIRED EQUIPMENT (INCLUDING, BUT NOT LIMITED TO, HYDRAULIC JACK, STEEL JACK CHAIRS, DIAL INDICATORS, INDEPENDENT TRI PODS) AS REQUIRED FOR FIELD MEASUREMENTS/VERIFICATION DURING TESTING.
- IF IN THE EVENT A TIE-BACK ANCHOR DOES NOT PASS TESTING, AT THE OPINION OF THE FIELD ENGINEER, ADDITIONAL ANCHORAGES MAY BE REQUIRED TO BE INSTALLED AT LARGER DIAMETERS, LARGER DRILL DIAMETERS, AND/OR LONGER LENGTHS AS REQUIRED TO PROVIDE ADEQUATE CAPACITY TO COMPENSATE FOR THE LOST ANCHORS.
- CONTRACTOR SHALL PROVIDE BOND-BREAK MATERIAL ALONG THE "FREE STRESSING LENGTH" AS INDICATED IN THESE DRAWINGS, UNLESS OTHERWISE INDICATED FOR A "FULL LENGTH BOND" ANCHOR, WHICH CASE THE THREADED BAR SHALL BE CONTINUOUSLY GROUTED ALONG FULL LENGTH.
- FOR SOLID, GRADE 150ksi THREADED BARS:
  - INSTALLATION SHALL BE VIA CASE DRILLING TO AVOID ANY LOSS OF SOILS.
  - DRILL FULL LENGTH AS INDICATED ON THESE DRAWINGS, MINIMALLY, UNLESS OTHERWISE DIRECTED BY FIELD ENGINEER.
  - INSERT BAR INTO PRE-DRILLED CASING.
  - PUMP CASING WITH GROUT - AS OF COMMON DRILLING PRACTICE, CONTINUE TO "PRESSURE GROUT" WHILE EXTRACTING CASING, AND CYCLE CASING REMOVAL IN-AND-OUT TO CREATE "GROUT BULBS", THIS WILL ENSURE BETTER ANCHOR PERFORMANCE (APPLICABLE TO SOIL BONDED ANCHORS, NEGLECT FOR ROCK BONDED ANCHORS)
  - ALLOW ADEQUATE GROUT CURE PRIOR TO TESTING. 5,000psi GROUT MIX (TYPICAL, 28-DAY) FOR ANCHORS SHALL CONSIST OF:
    - 1 BAG CEMENT, TYPE 1, 2, OR 3
    - 5 GALLONS POTABLE WATER
  - TESTING TYPICALLY CAN OCCUR WITHIN 3 DAYS OF INSTALLATION, OR AT DIRECTION OF FIELD ENGINEER.
- UPON TESTING OF ALL REQUIRED ANCHORS, A LIFT-OFF TEST MAY BE PERFORMED AT DIRECTION OF FIELD ENGINEER IN ORDER TO VERIFY PROPER LOAD TRANSFER AND TO COMPENSATE FOR ANY SEATING LOSSES. FINAL LOCK-OFF VALUE IS TO BE AT DIRECTION OF FIELD ENGINEER.

**SUPPORT OF EXCAVATION NOTES:**

- THE TEMPORARY SHEETING WALL (SUPPORT OF EXCAVATION) IS DESIGNED WITH AN ADDED ALLOWABLE SURCHARGE LOADING AT SIDEWALK GRADE AT A VALUE OF 300 POUNDS PER SQUARE FOOT (PSF). HEAVY EQUIPMENT OR MATERIAL STORAGE ANTICIPATED SHALL BE PLACED WITHIN A DISTANCE TO THE SHEETING WALL EQUAL TO THE EXCAVATION DEPTH, MUST BE EVALUATED BY THIS OFFICE FOR ACCEPTANCE PRIOR TO PLACING SAID HEAVY EQUIPMENT.
- STRUCTURAL CONCRETE FOR UNDERPINNING PIERS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000-PSI AT 28 DAYS.
- CONCRETE PIERS AND DRY PACK SHALL BE ALLOWED TO CURE PRIOR TO EXCAVATING ADJACENT PIT, OR ADVANCING THE EXCAVATION IN FRONT OF THE PIT.
- DRY PACK SHALL CONSIST OF ONE PART CEMENT TO TWO PARTS SAND BY VOLUME. WATER SHALL BE ADDED TO PRODUCE A MIXTURE WHICH HOLDS ITS SHAPE WHEN FORMED INTO A BALL BY HAND.
- GROUTING TO STABILIZE SOIL AT UNDERPINNING PITS SHALL BE PERFORMED USING SODIUM SILICATE OR MICROFINE CEMENT. GROUT MIX DESIGN, EQUIPMENT, DRILLING PROCEDURE, AND SEQUENCE SHALL BE PERFORMED BY THE CONTRACTOR AND SUBMITTED FOR REVIEW.
- TIMBER LAGGING SHALL BE ROUGH CUT, FULL SIZE CONSTRUCTION GRADE, WITH A MINIMUM ALLOWABLE BENDING STRESS OF 1200-PSI. TIMBER SIZES SHOWN ARE ACTUAL SIZES.
- DEPTH OF EXCAVATION BELOW FOOTING AND PREVIOUSLY INSTALLED LAGGING BOARDS SHALL NOT EXCEED 36 INCHES, OR AT DIRECTION FIELD PROFESSIONAL ENGINEER. MAINTAIN TIGHT CONTACT BETWEEN SOIL AND LAGGING BOARDS. IF MATERIAL IS CAVING INTO EXCAVATION, DECREASE THE UNBRACED EXCAVATION DEPTH AND/OR GROUT THE MATERIAL TO MINIMIZE LOSS.
- IF MATERIAL BEHIND LAGGING HAS BEEN LOST OR DISTURBED, LEAVE A 1 TO 1 1/2-INCH SPACE BETWEEN LAGGING BOARDS TO IMMEDIATELY BACKFILL OR GROUT.
- EXCAVATION FOR UNDERPINNING PIERS MUST BE PERFORMED IN DRY CONDITIONS. DEWATERING MAY BE NECESSARY PRIOR TO EXCAVATION TO MAINTAIN WATER LEVELS A MINIMUM OF 1 FOOT BELOW THE PROPOSED SUBGRADE LEVEL OF THE PIER. HAY OR FILTER FABRIC SHALL BE USED TO MINIMIZE MIGRATION OF FINES INTO THE EXCAVATION.
- UNDERPINNING PIER SUBGRADE BEARING MATERIAL SHALL BE EQUAL OR BETTER CLASS THAN THE ORIGINAL BEARING MATERIAL.
- MAXIMUM PIT WIDTH IS 4 FEET UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- APPROACH PITS FOR UNDERPINNING PITS SHOULD CAUSE MINIMAL DISTURBANCE TO SOIL SUBGRADE BELOW THE FOOTING. IT IS THE CONTRACTORS RESPONSIBILITY TO DESIGN THE APPROACH PITS AND EXCAVATE PITS FOLLOWING OSHA AND LOCAL LAWS.
- EXCAVATE PITS SUCH THAT A MINIMUM OF 12 FEET OF UNDISTURBED SOIL OR CURED UNDERPINNING PIER IS MAINTAINED BETWEEN OPEN PITS UNTIL ALL UNDERPINNING IS COMPLETE.
- DO NOT LEAVE PITS OPEN OVERNIGHT OR DURING WEEKENDS OR HOLIDAYS.
- DO NOT START UNDERPINNING WITH A CORNER OR END UNDERPINNING PIER.
- UNDERPINNING PIER THICKNESS SHALL BE 2'-0" OR WIDTH OF FOOTING, WHICHEVER IS GREATER.
- UNDERPINNING SHALL BE CONSTRUCTED IN ONE VERTICAL LIFT, NO COLD JOINTS.
- ROCK BOLTS MAY BE REQUIRED BASED ON ROCK FACE OBSERVATIONS AT DIRECTION OF FIELD PROFESSIONAL ENGINEER.

**DRILLED PIPE SOLDIER PILES & LAGGING:**

- SOLDIER PILE CASING SHALL BE INSTALLED USING INTERNAL FLUSH DUPLEX DRILLING METHOD. CONTRACTOR SHALL ADJUST DRILLING PROCEDURE AS REQUIRED TO PREVENT LOSS OF GROUND, SETTLEMENT AND/OR LATERAL MOVEMENT OF BUILDINGS, UTILITIES, AND OTHER STRUCTURES.
- NO LOSS OF MATERIAL FROM THE OUTSIDE OF THE SOLDIER PILE WILL BE PERMITTED. THE CONTRACTOR SHALL ADOPT THE NECESSARY DRILLING PROCEDURES TO PREVENT LOSS OF MATERIAL FROM AROUND THE OUTSIDE OF THE SOLDIER PILE.
- STEEL CASING SHALL HAVE A MINIMUM WALL THICKNESS OF 0.50-INCHES. SPLICES IN THE CASING SHALL BE THREADED AND FULLY WELDED (ADDITIONAL INTERNAL REINFORCEMENT MAY BE REQUIRED IF SEAMS ARE NOT WELDED.)
- THE BOTTOM OF EACH DRILLED SOLDIER PILE SHALL BE PROTECTED BY A HIGH-STRENGTH CUTTING SHOE WITH HARDENED CUTTING EDGE.
- NO CONCRETE OR GROUT SHALL BE PLACED AT ANY SOLDIER PILE LOCATION UNTIL TIP ELEVATION HAS BEEN CONFIRMED, CLEANED OF MUD AND ANY EXTRANEOUS MATERIAL, AND INSPECTED AND APPROVED BY THE FIELD ENGINEER.
- CONCRETE OR GROUT SHALL BE PLACED CONTINUOUSLY FOR THE FULL DEPTH OF THE SOLDIER PILE STARTING AT THE BOTTOM. NO COLD JOINT IS ALLOWED.
- FINAL DETERMINATION OF THE ELEVATION OF THE SOLDIER PILE TIP WILL BE DETERMINED BY THE FIELD ENGINEER.
- THE ENGINEER MAY DIRECT AN INCREASE IN SOLDIER PILE DEPTH FROM THAT SPECIFIED HEREIN OR AS SHOWN ON THE DRAWINGS IF INFERIOR SOIL IS ENCOUNTERED ABOVE THE ORIGINAL MINIMUM TIP ELEVATION.
- NO SOLDIER PILE SHALL BE OUT OF PLUMB MORE THAN ONE PERCENT (1%) OF ITS EMBEDDED LENGTH.
- BEFORE BRACING IS INSTALLED, MAXIMUM EXCAVATION BELOW BRACING LEVEL IS 2-FT FOR WALERS AND RAKERS UNLESS NOTED ON DRAWING OR AT DIRECTION OF FIELD ENGINEER.
- LAGGING SHALL BE INSTALLED AS THE EXCAVATION ADVANCES WITH A MAXIMUM DEPTH OF 2-FT PRIOR TO LAGGING.
- IF MATERIAL BEHIND LAGGING HAS BEEN LOST OR DISTURBED, LEAVE A 1- TO 1-1/2 INCH SPACE BETWEEN LAGGING BOARDS TO IMMEDIATELY BACKFILL OR GROUT.
- HAY OR FILTER FABRIC SHALL BE USED TO MINIMIZE MIGRATION OF FINES INTO THE EXCAVATION.

**SURVEY AND MONITORING NOTES:**

- A PRE-CONSTRUCTION (PRE-CONDITION) SURVEY OF THE ADJACENT STRUCTURES SHALL BE COMPLETED PRIOR TO CONSTRUCTION COMMENCEMENT. 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.
- MONITOR THE ADJACENT BUILDINGS AT 50-FOOT INTERVALS FOR VERTICAL AND LATERAL MOVEMENT. NOTE THAT MONITORING LOCATIONS ARE NOT SHOWN ON THE SUPPORT OF EXCAVATION PLAN.
- OBTAIN BASELINE READINGS OF THE MONITORING POINTS PRIOR TO AND DURING EXCAVATION AND NEW CONSTRUCTION.
- PERFORM OPTICAL SURVEYS (MONITORING PROCEDURES BY LANGAN). IF MOVEMENTS OCCUR, INCREASE THE FREQUENCY OF THE READINGS AS DIRECTED BY THE ENGINEER.
- VIBRATION MONITORS (SEISMOGRAPHS - BY OTHERS) SHALL BE PLACED ADJACENT TO AREAS WHERE WORK IS BEING PERFORMED. NOTE THAT SEISMOGRAPH LOCATIONS ARE NOT SHOWN ON THE SUPPORT OF EXCAVATION PLAN FOR CLARITY (NYCTA MONITORING BY OTHERS).
- BUILDING MOVEMENT AND VIBRATION CRITERIA (TO BE DETERMINED BY LANGAN)
- VIBRATION MONITORS SHALL TAKE REAL TIME READINGS UNDER DIRECTION OF VIBRATION CONTRACTOR/CONSULTANT.
- ALL MONITORING DATA SHALL BE PRESENTED TO THE CONSTRUCTION MANAGER AND ENGINEER AT THE END OF EACH DAY AS APPLICABLE.

**SOE SHEETING MONITORING:**

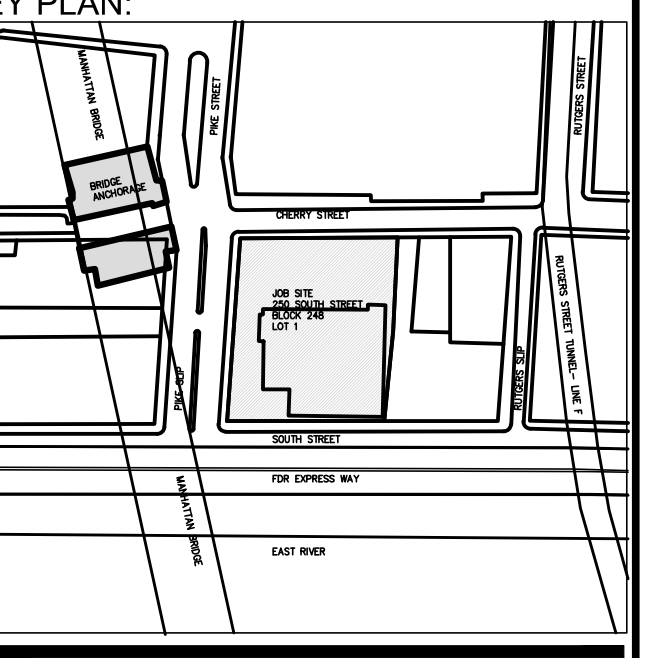
- MONITOR THE STEEL SHEETING AFTER INSTALL. PROVIDE MONITORING POINT AT 25 FEET INTERVALS ALONG CHERRY STREET AND AT 50 FEET INTERVALS AT THE REST OF THE STEEL SHEETING. NOTE THAT MONITORING LOCATIONS ARE NOT SHOWN ON THE SUPPORT OF EXCAVATION PLAN.
- OBTAIN BASELINE READINGS OF THE MONITORING POINTS RIGHT AFTER STEEL SHEETING INSTALLATION AND DURING EXCAVATION AND NEW CONSTRUCTION.
- PERFORM OPTICAL SURVEYS (MONITORING PROCEDURES BY LANGAN). IF MOVEMENTS OCCUR, INCREASE THE FREQUENCY OF THE READINGS AS DIRECTED BY THE ENGINEER.
- VIBRATION MONITORS (SEISMOGRAPHS - BY OTHERS) SHALL BE PLACED OVER INSTALLED SOE SYSTEM. NOTE THAT SEISMOGRAPH LOCATIONS ARE NOT SHOWN ON THE SUPPORT OF EXCAVATION PLAN FOR CLARITY.
- SOE MOVEMENT AND VIBRATION CRITERIA:
  - IF THE VERTICAL OR LATERAL BUILDING MOVEMENT REACHES 1/2-INCH, IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER.
  - IF THE BUILDING MOVEMENT REACHES 1-INCH, IMMEDIATELY INFORM THE CONSTRUCTION MANAGER AND ENGINEER AND STOP WORK. THE WORK SHALL RESUME UPON APPROVAL BY THE CONSTRUCTION MANAGER AND APPROVED REMEDIAL MEASURES AND/OR MODIFIED CONSTRUCTION PROCEDURES BY THE ENGINEER.
  - IF THE VIBRATIONS REACH 2-INCH PER SECOND (IPS) THE CONSTRUCTION MANAGER AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
  - IF THE VIBRATIONS EXCEED 3-IPS, IMMEDIATELY INFORM THE CONSTRUCTION MANAGER AND ENGINEER AND STOP WORK. THE WORK SHALL RESUME UPON APPROVAL BY THE CONSTRUCTION MANAGER AND APPROVED REMEDIAL MEASURES AND/OR MODIFIED CONSTRUCTION PROCEDURES BY THE ENGINEER.
- ALL MONITORING DATA SHALL BE PRESENTED TO THE CONSTRUCTION MANAGER AND ENGINEER AT THE END OF EACH DAY AS APPLICABLE.

**COORDINATION OF DRAWINGS DEVELOPED BY OTHERS:**

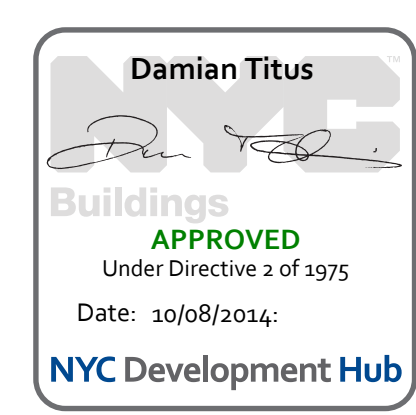
- SITE LOGISTICS, SITE SAFETY, EQUIPMENT STORAGE, CONSTRUCTION FENCE AND BARRIER DETAILS, DEWATERING, AND THE LIKE NOT DESIGNED SPECIFICALLY BY THIS OFFICE FOR SOE. TREE REMOVAL ON THESE DRAWINGS FOR GENERAL REFERENCE ONLY. FNA NOT RESPONSIBLY FOR THE ABOVE INFORMATION DEPICTED, UNDER RESPONSIBILITY OF OTHERS.

5	D.O.B. COMMENTS	08-04-14
4	T.A. COMMENTS	07-16-14
3	DESIGN UPDATE	07-09-14
2	T.A. COMMENTS	05-30-14
1	T.A. FILING	04-03-14

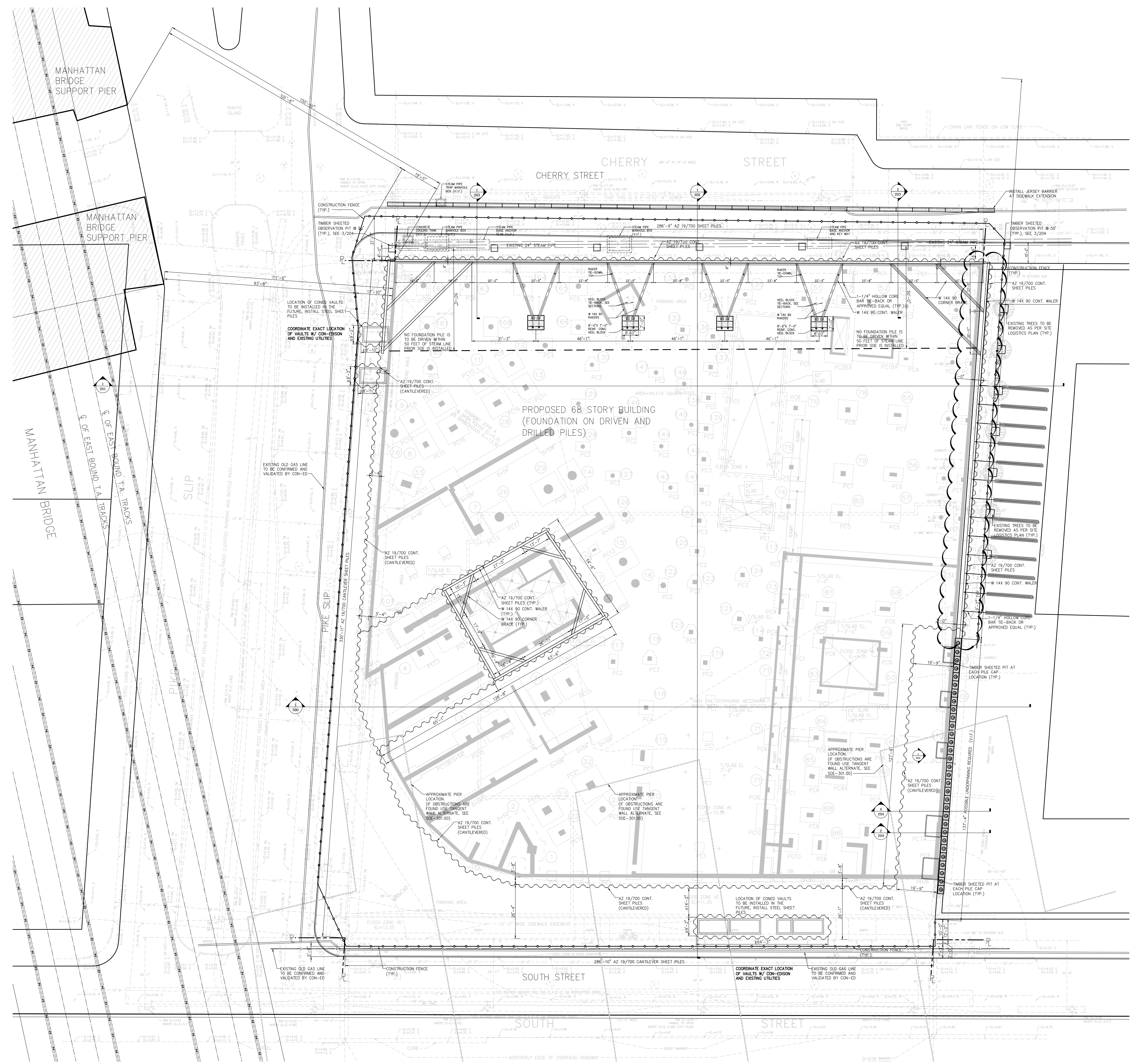
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**DRAWING TITLE: GENERAL NOTES**



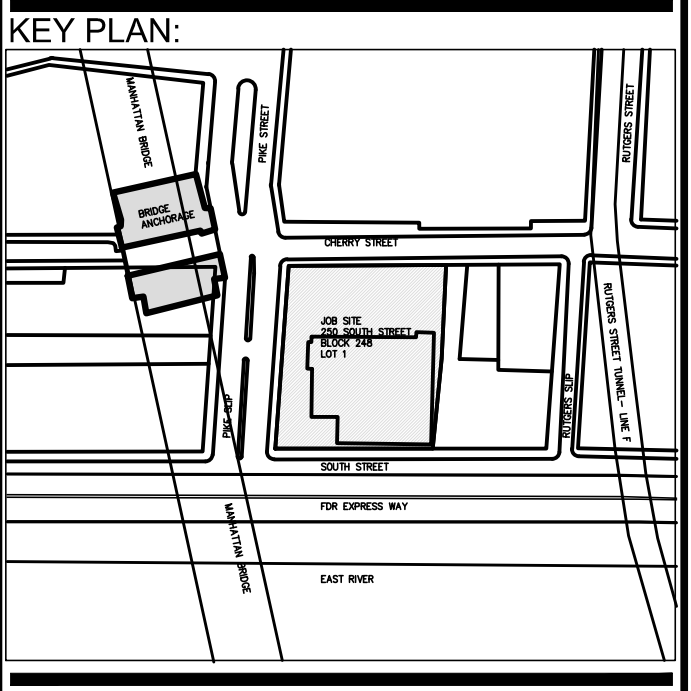
SEAL Date 11-08-13  
 PROJECT No: 13046  
 Drawn By: GD  
 DWG. No: SOE-002.00  
 2 OF 10



227 CHERRY ST.-250 SOUTH ST.  
NEW YORK, NY, 10018

5	D.O.B. COMMENTS	08-04-14
4	T.A. COMMENTS	07-16-14
3	DESIGN UPDATE	07-09-14
2	T.A. COMMENTS	05-30-14
1	T.A. FILING	04-03-14

No. Revision: \_\_\_\_\_ Date: \_\_\_\_\_  
SCALE: AS NOTED



DRAWING TITLE:  
SUPPORT OF EXCAVATION PLAN

SEAL	Date	11-08-13
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Drawn By:	GD	
DWG. No.:	SOE-100.00	
	3 OF 10	

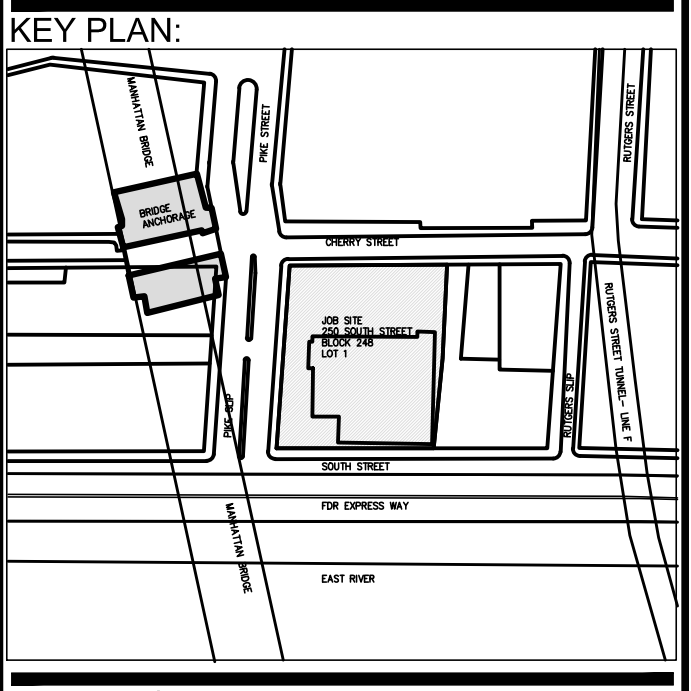
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Damian Titus  
APPROVED  
Under Directive 2 of 1995  
Date: 10/02/2014  
NYC Development Hub

**227 CHERRY ST.-250 SOUTH ST.**  
 NEW YORK, NY, 10018

5	D.O.B. COMMENTS	08-04-14
4	T.A. COMMENTS	07-16-14
3	DESIGN UPDATE	07-09-14
2	T.A. COMMENTS	05-30-14
1	T.A. FILING	04-03-14

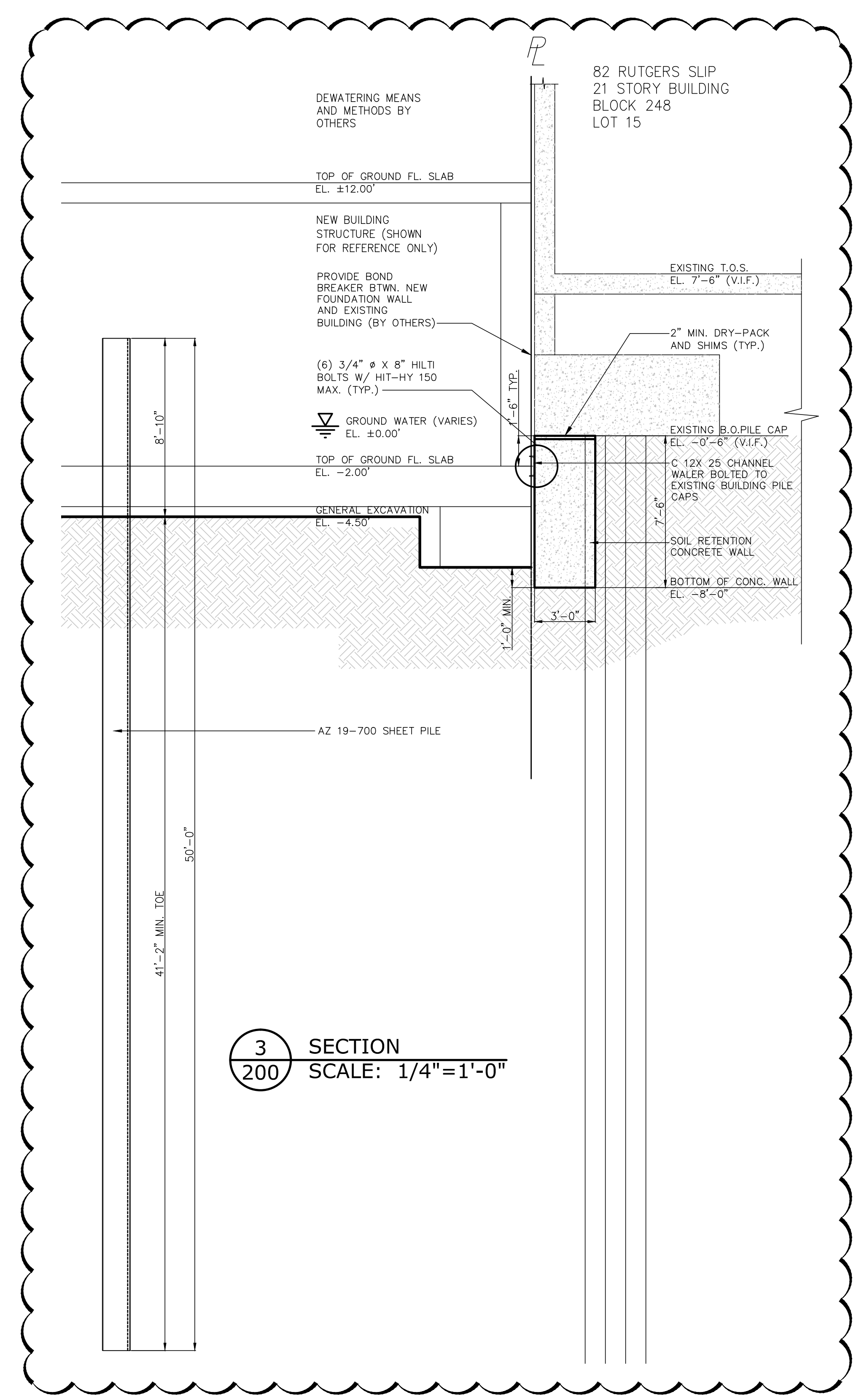
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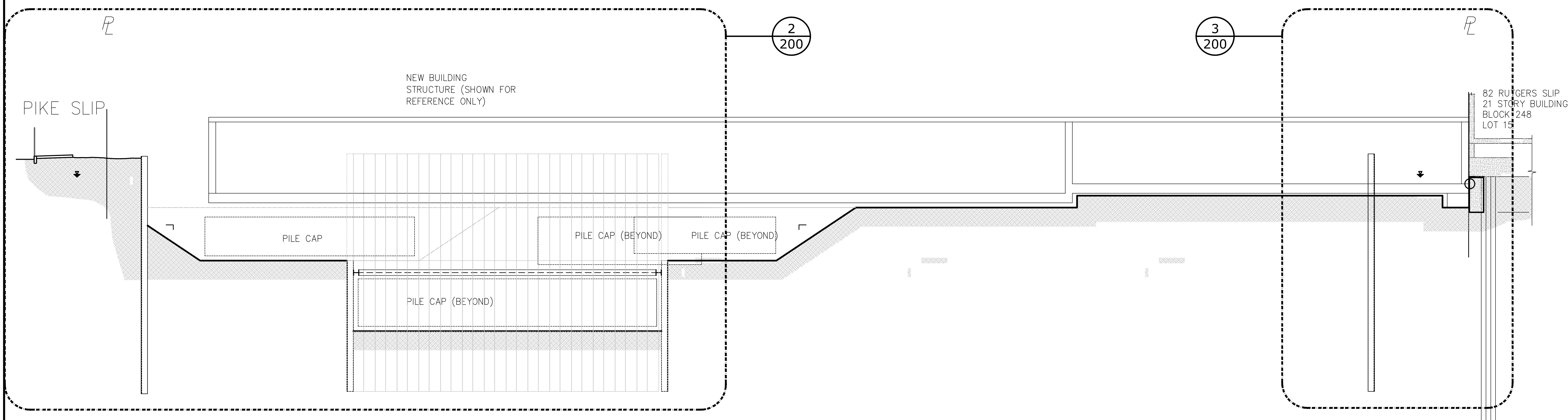
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PROJECT No:	13046	
Drawn By:	GD	
DWG. No:	SOE-200.00	
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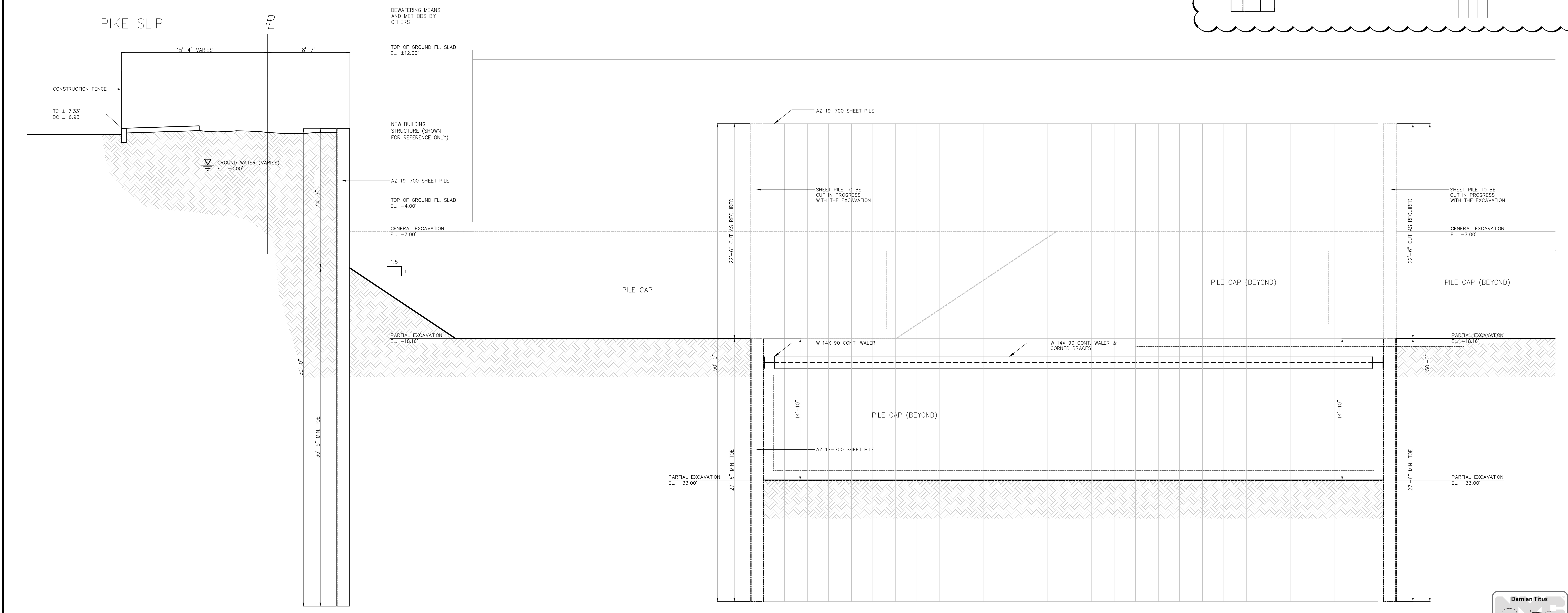
Damian Titus  
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 Date: 10/02/2014  
 NYC Development Hub



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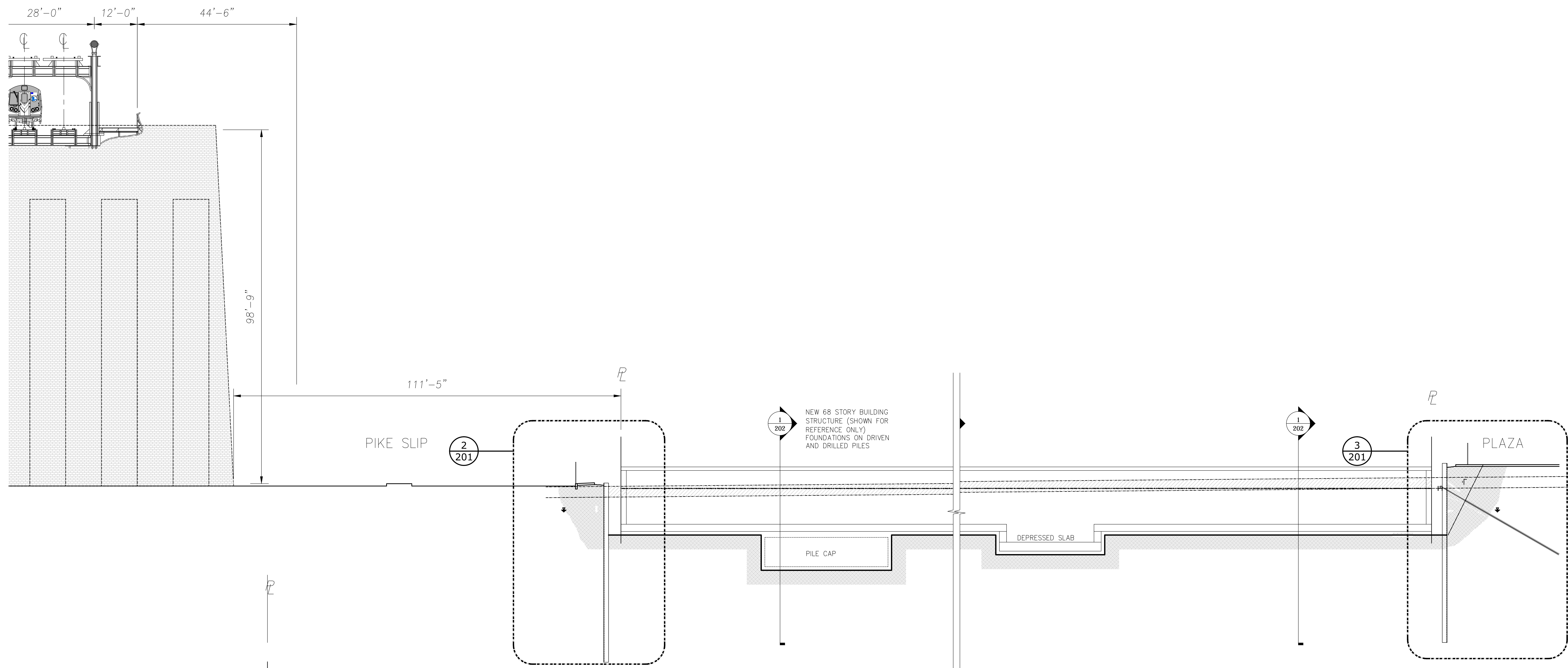


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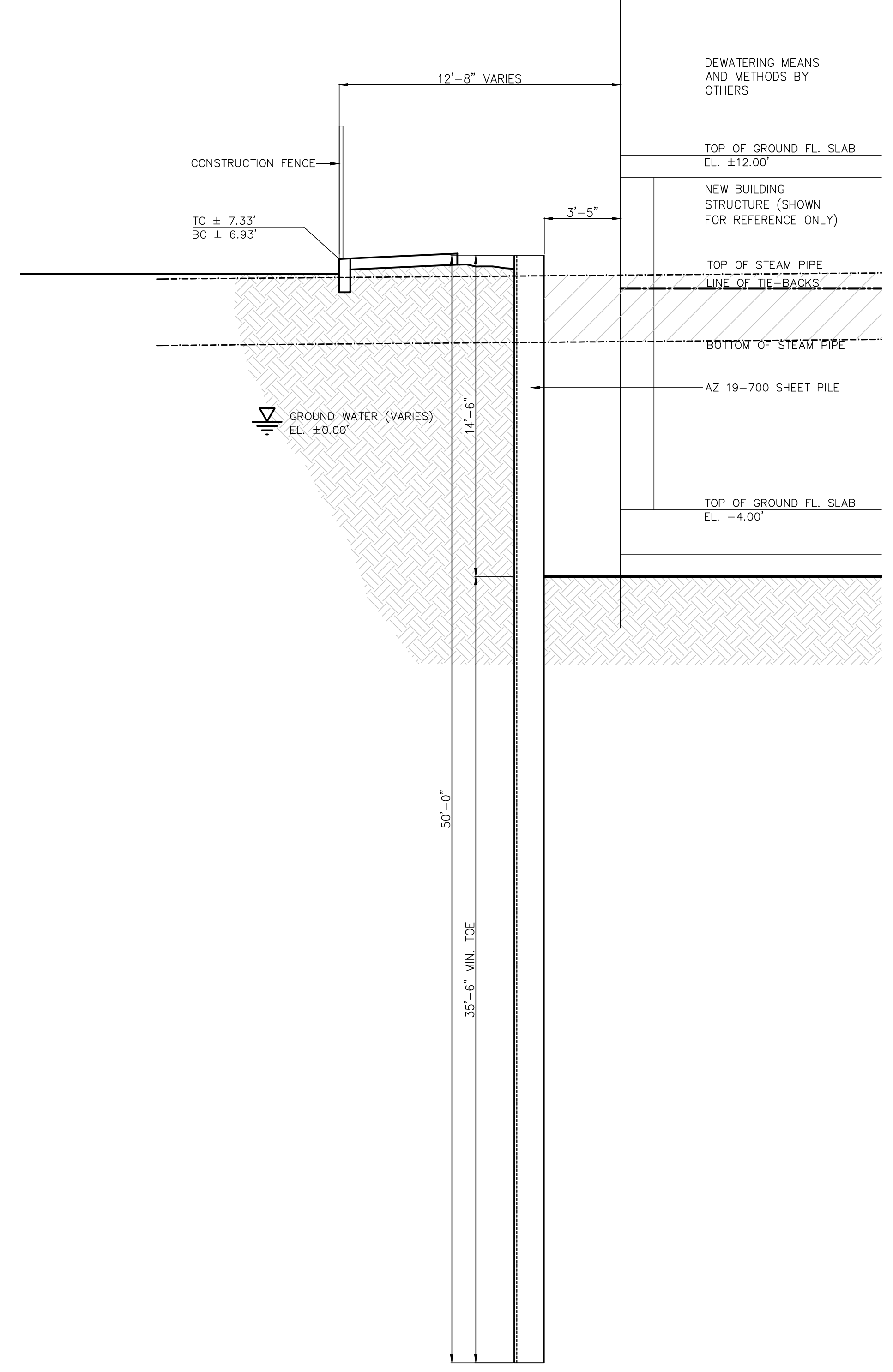


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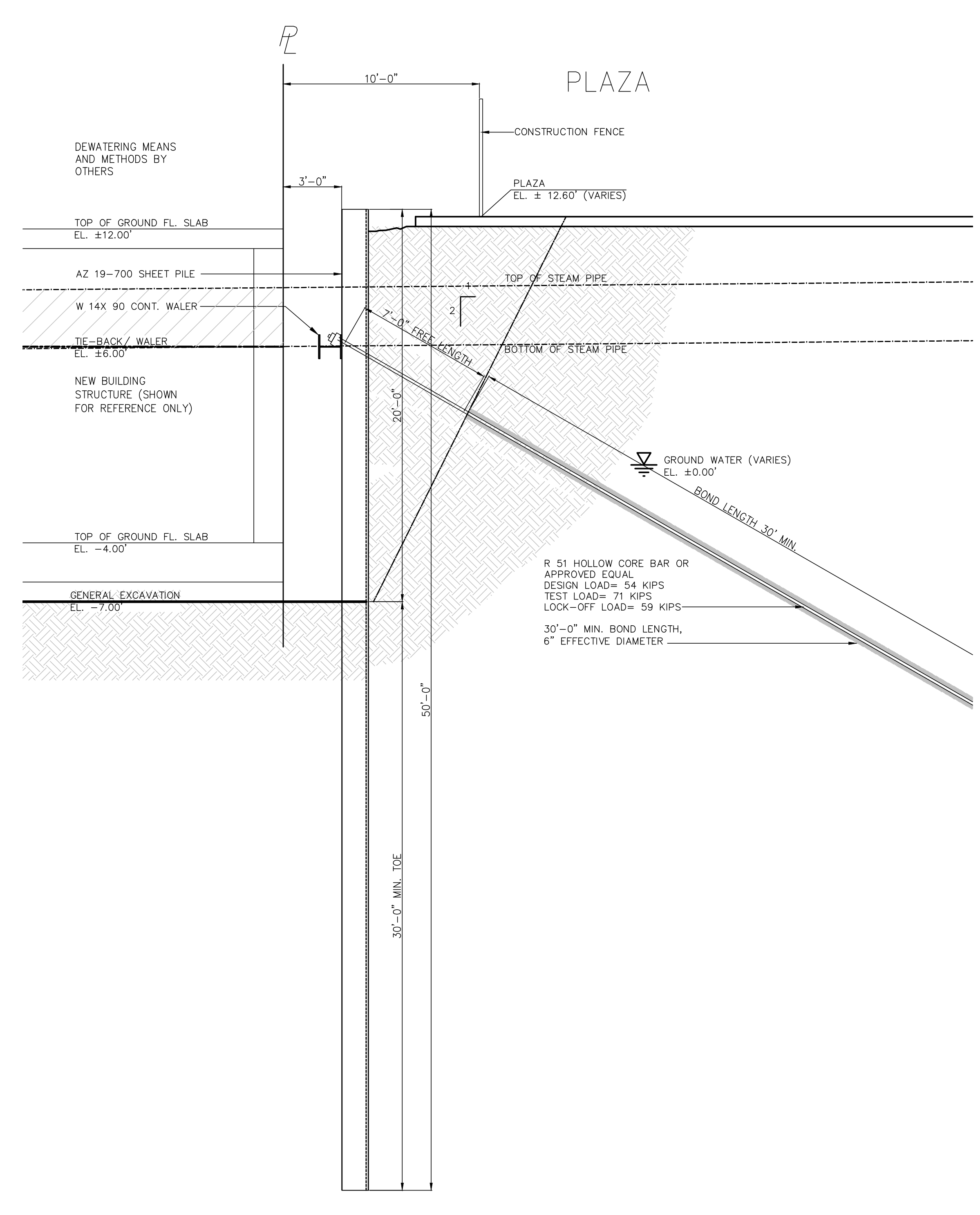




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2 SECTION  
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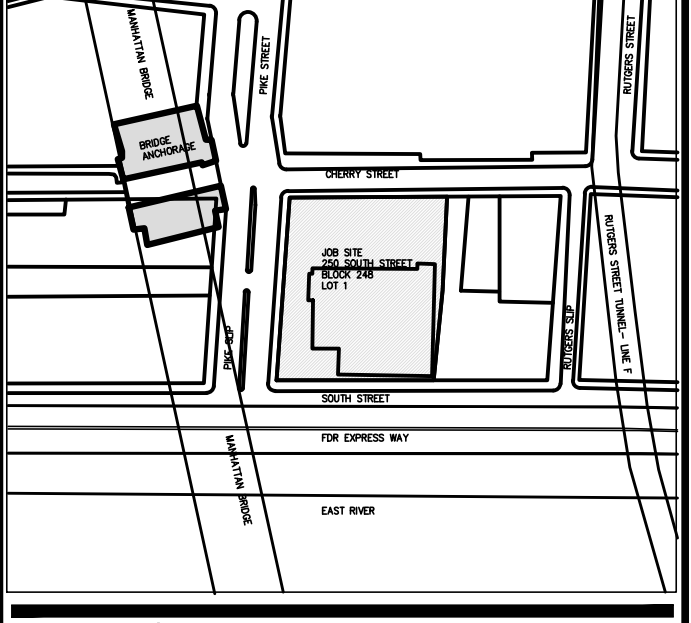
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227 CHERRY ST.-250 SOUTH ST.  
 NEW YORK, NY, 10018

5	D.O.B. COMMENTS	08-04-14
4	T.A. COMMENTS	07-16-14
3	DESIGN UPDATE	07-09-14
2	T.A. COMMENTS	05-30-14
1	T.A. FILING	04-03-14

No: Revision: Date:

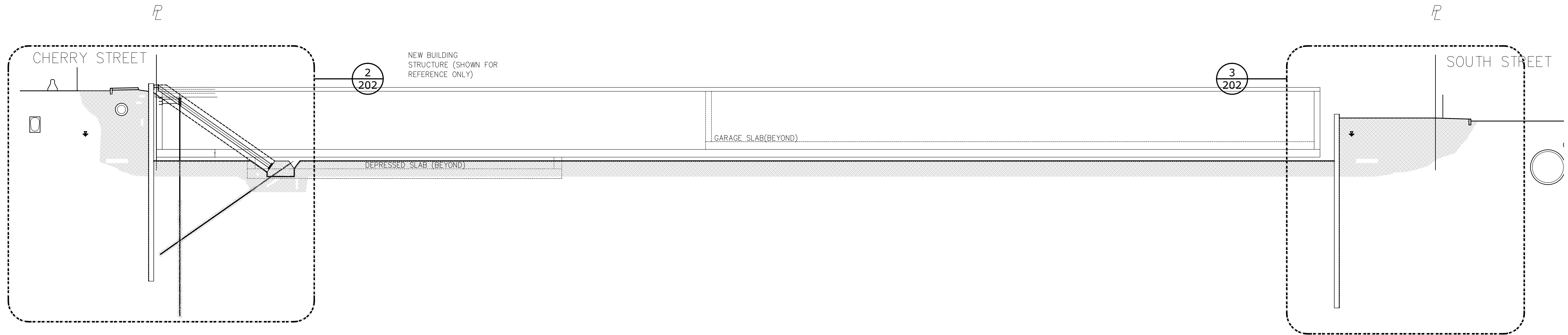
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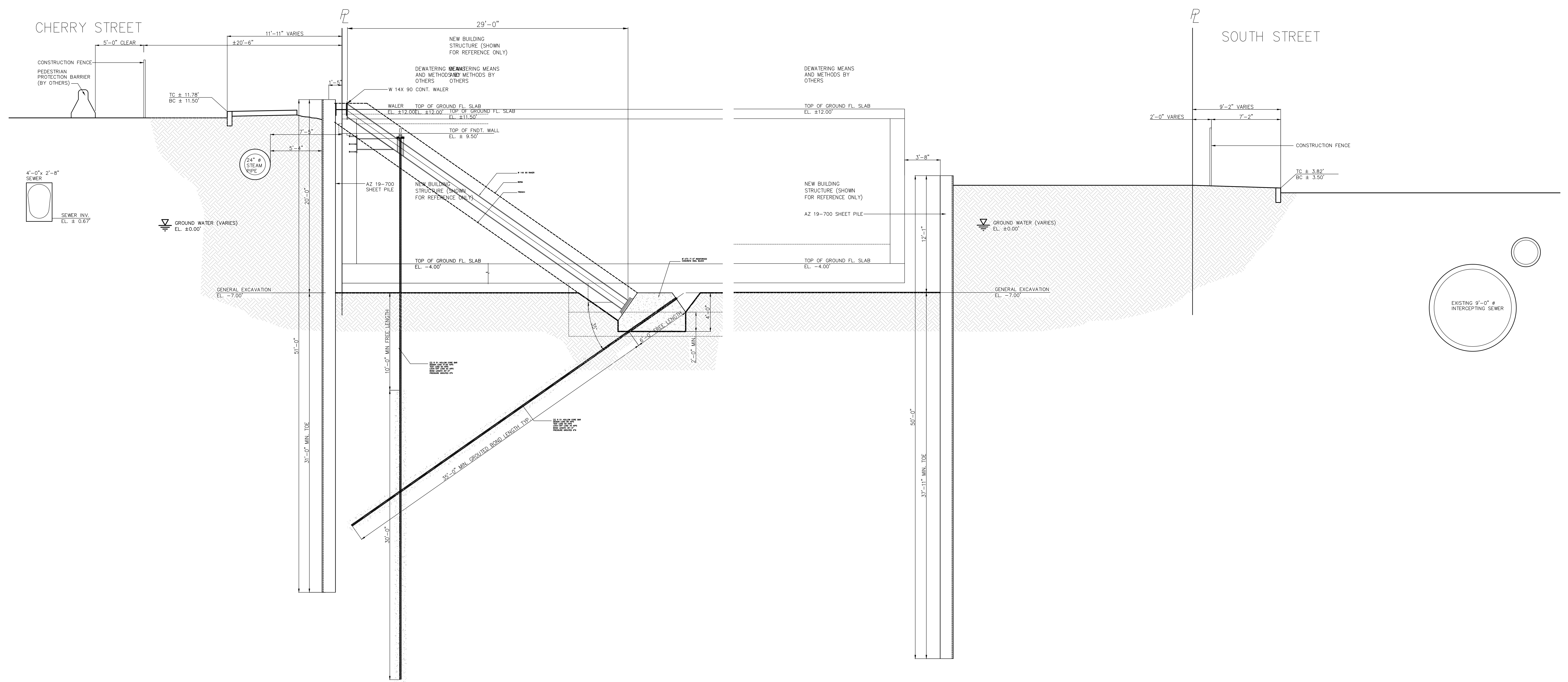
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SEAL  
 Date: 11-08-13  
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 Drawn By: GD  
 DWG. No: SOE-201.00  
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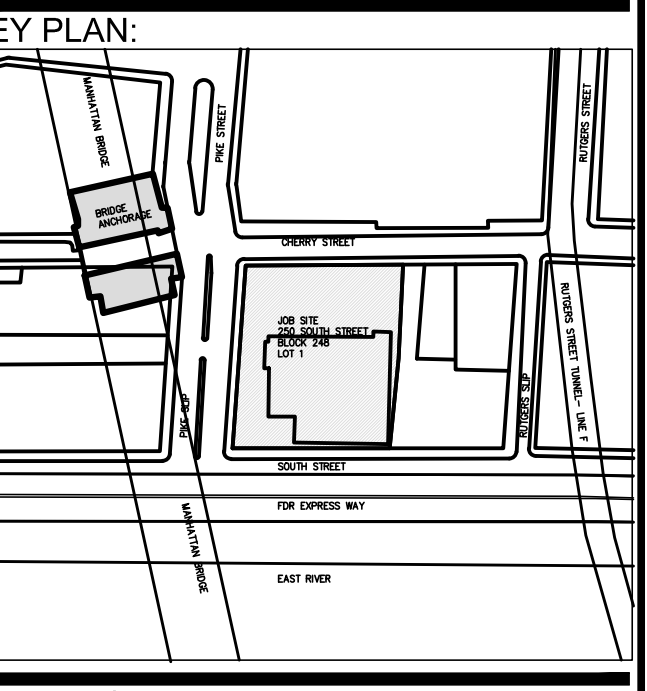
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**227 CHERRY ST.-250 SOUTH ST.**  
NEW YORK, NY, 10018

5	D.O.B. COMMENTS	08-04-14
4	T.A. COMMENTS	07-16-14
3	DESIGN UPDATE	07-09-14
2	T.A. COMMENTS	05-30-14
1	T.A. FILING	04-03-14

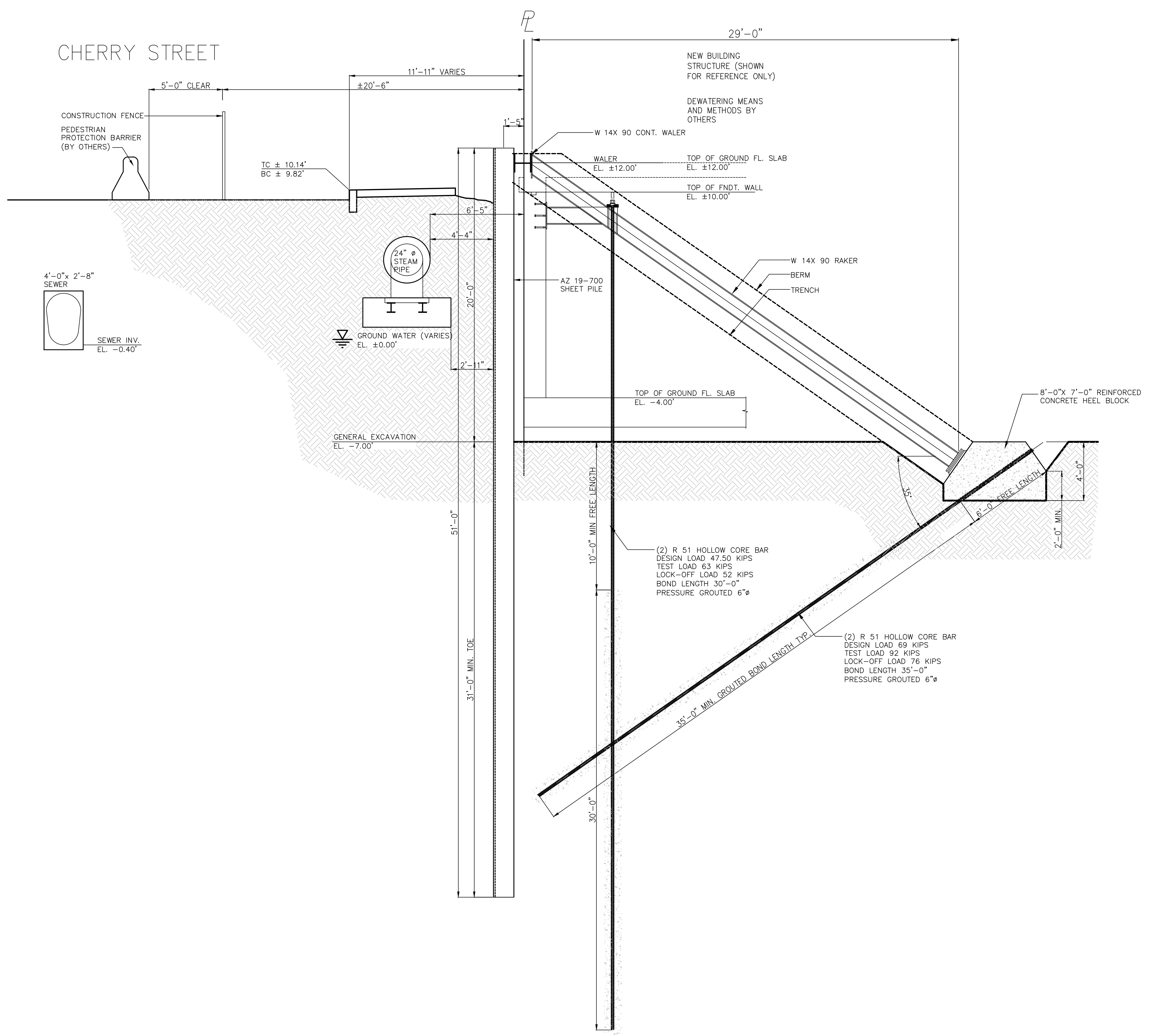
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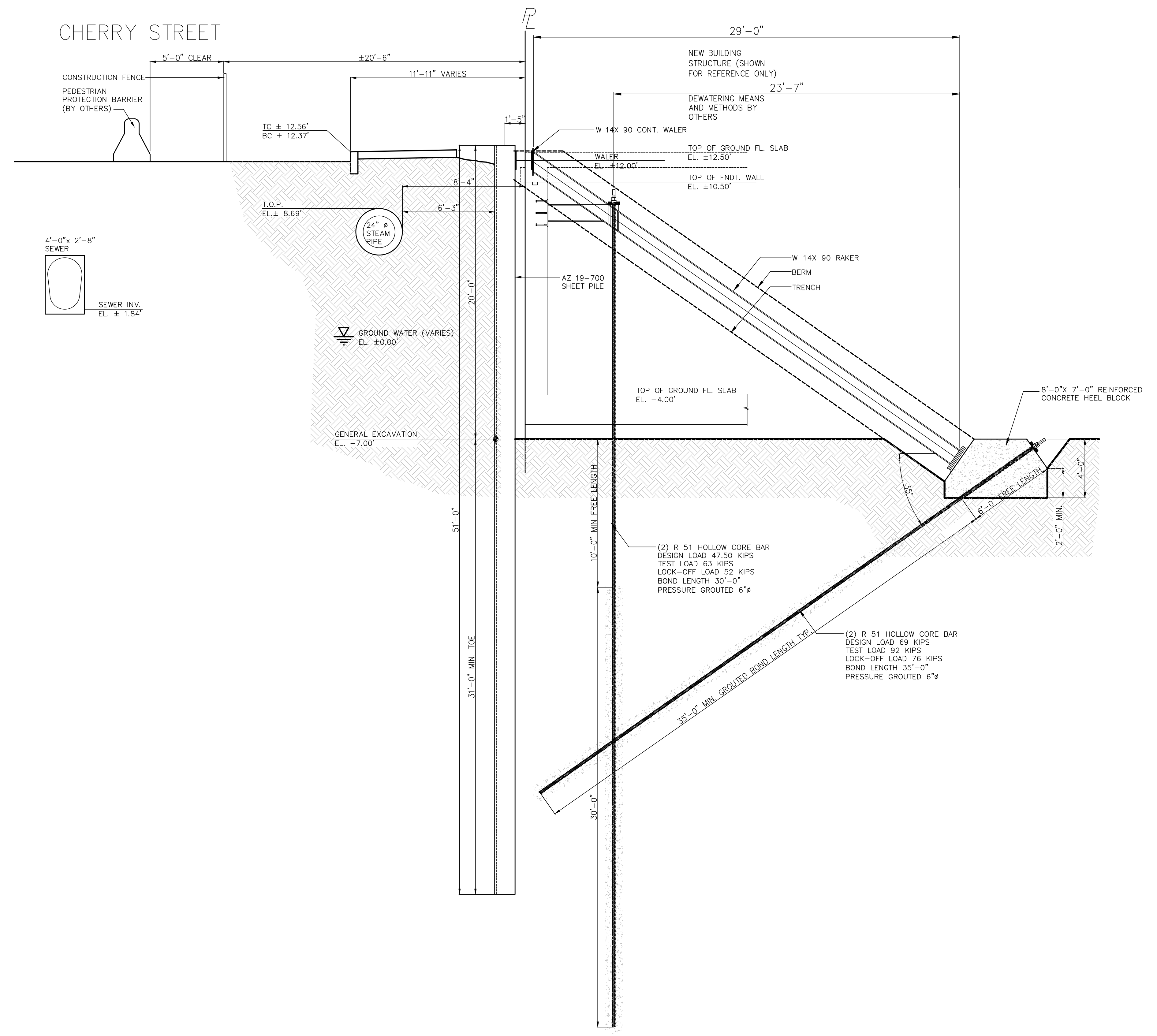
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**SOE SECTIONS**

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Date: 10/02/2014  
NYC Development Hub

SEAL	Date	11-08-13
PROJECT No:	13046	
Drawn By:	GD	
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**2**  
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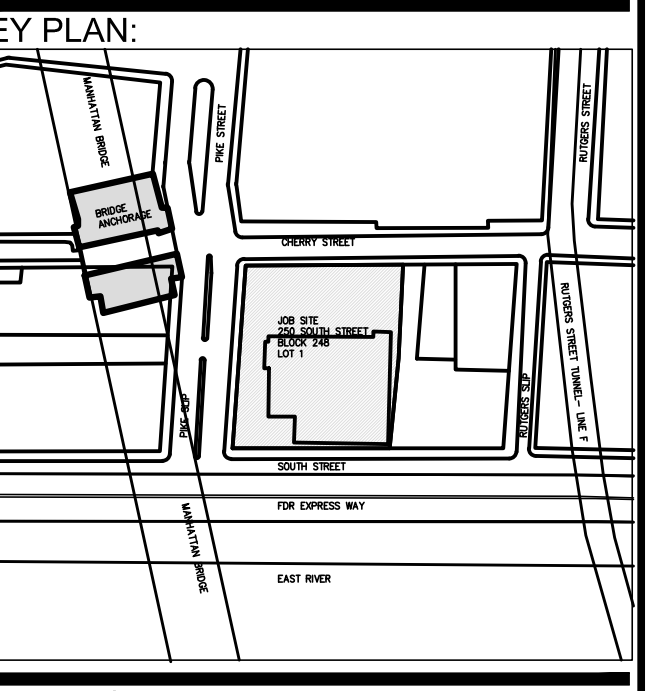
**CONSTRUCTION SEQUENCE AT CHERRY ST. SIDE:**

1. INSTALL VIBRATION MONITORS ON STEAM PIPE (REFER TO MONITORING PLAN BY LANGAN).
2. INSTALL CONSTRUCTION FENCE AND PEDESTRIAN PROTECTION.
3. INVESTIGATE EXISTING STEAM PIPE STRUCTURE AND LOCATION BY EXCAVATING OBSERVATION TIMBER SHEETED PIT AT 50 FEET INTERVALS MAX. ALONG STEAM PIPE PROFILE, SEE DETAILS.
4. INVESTIGATE EXISTING UTILITIES ALONG CHERRY STREET. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO START OF EXCAVATION.
5. LAY-OUT SHEET PILE WALL PROFILE AS SHOWN ON DWG. PERFORM PRE-TRENCH EXCAVATION TO INITIALLY REMOVE DEBRIS TO ALLOW FREE INSTALLATION.
6. PRE-TRENCH EXCAVATION SHALL BE PERFORMED IN SECTIONS, NO MORE THAN 20 FEET IN LENGTH AND NO DEEPER THAN ADJACENT STEAM LINE.
7. BACK FILL TRENCH WITH CLEAN SAND FILL.
8. INSTALL SHEET PILES AT THE PREPARED AREA USING A HIGH FREQUENCY, VARIABLE SPEED VIBRATORY HAMMER.

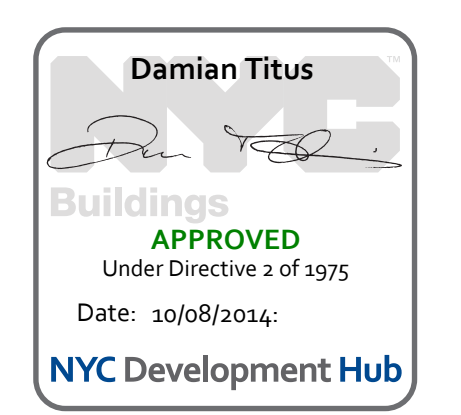
**227 CHERRY ST.-250 SOUTH ST.**  
NEW YORK, NY, 10018

5	D.O.B. COMMENTS	08-04-14
4	T.A. COMMENTS	07-16-14
3	DESIGN UPDATE	07-09-14
2	T.A. COMMENTS	05-30-14
1	T.A. FILING	04-03-14

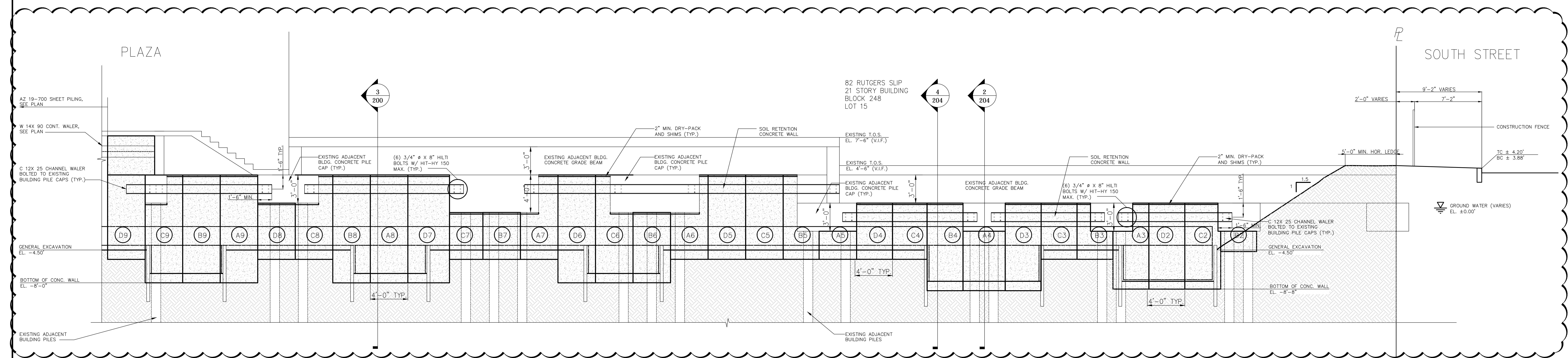
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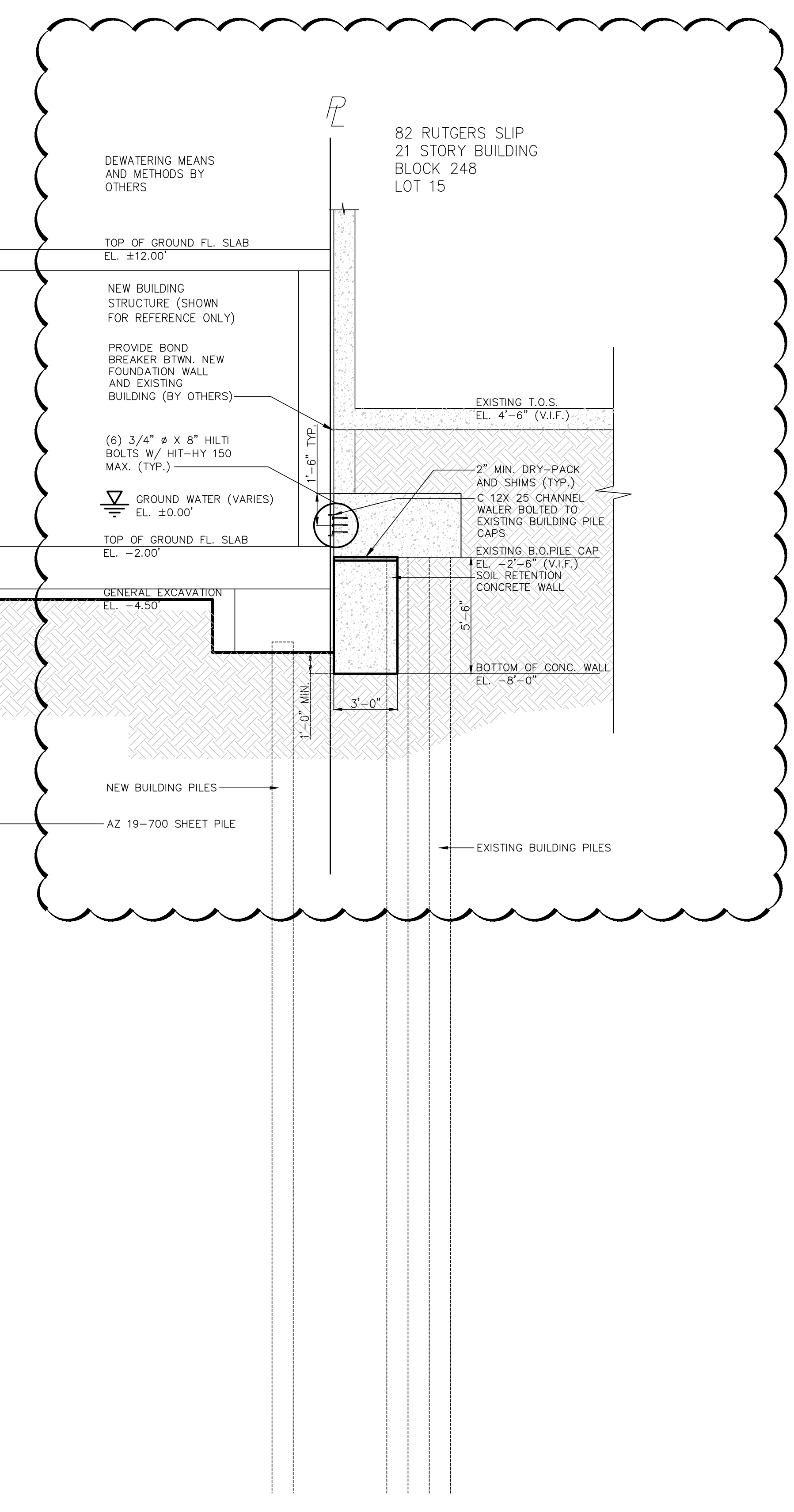
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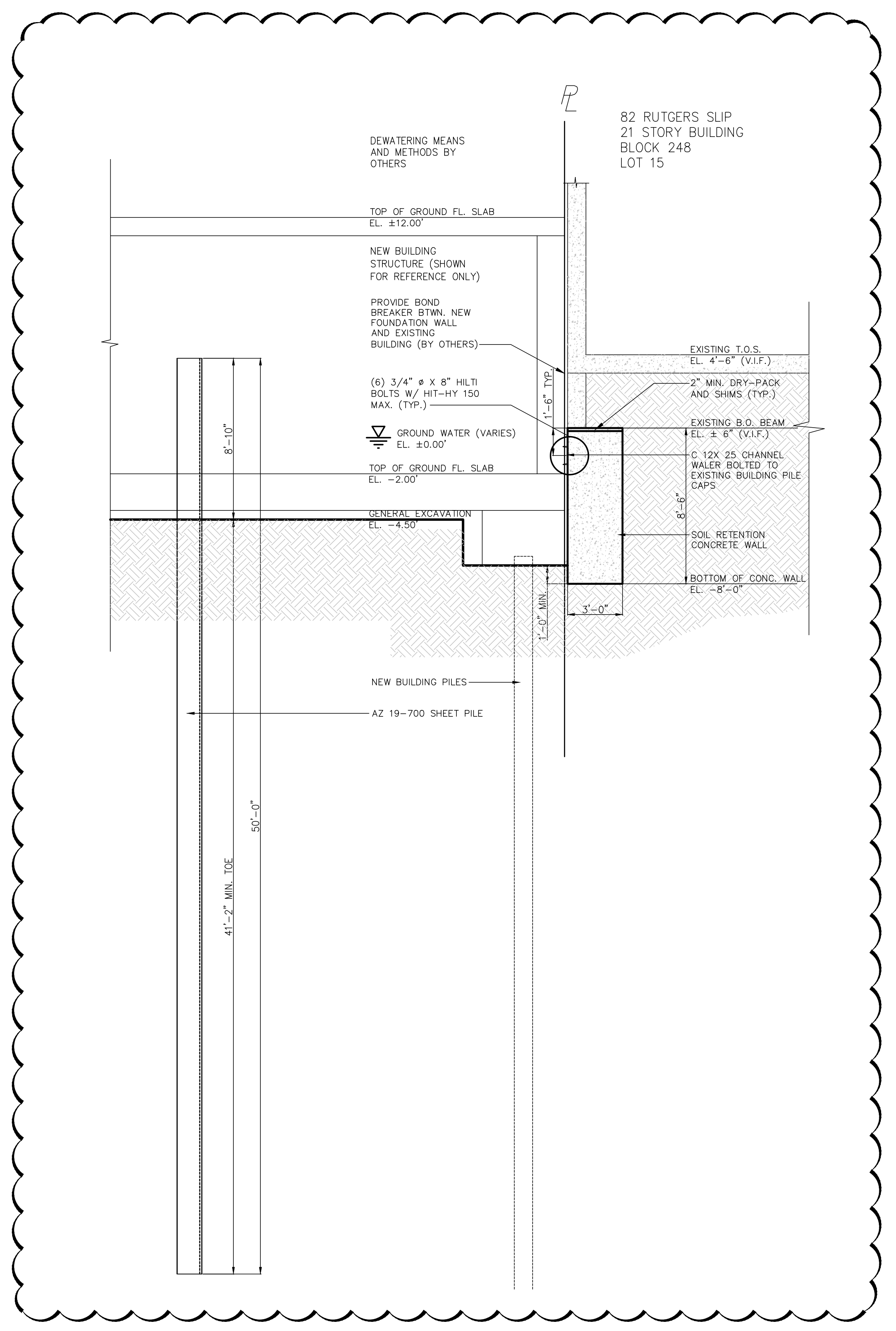
SEAL	Date	11-08-13
	PROJECT No:	13046
	Drawn By:	GD
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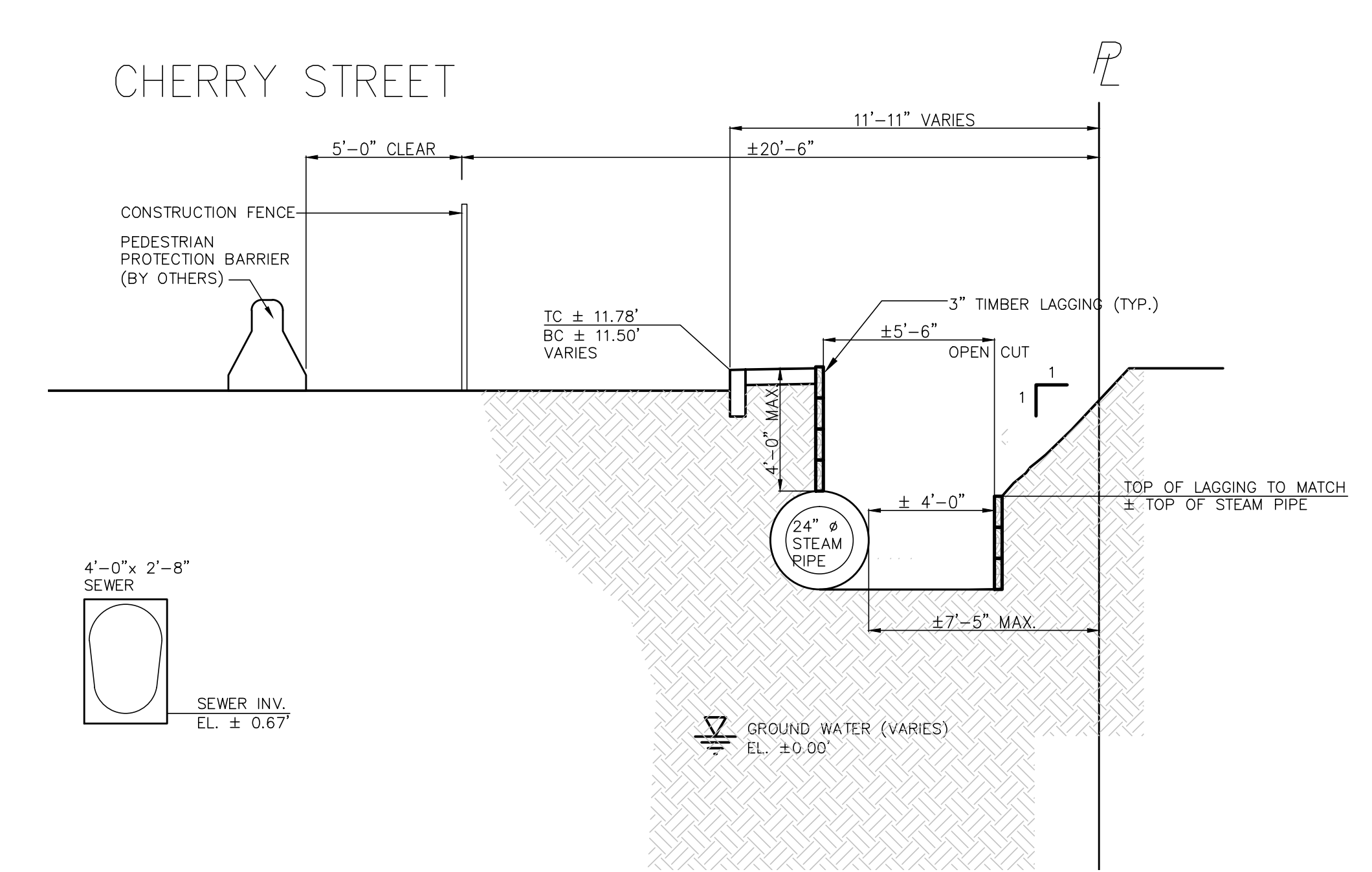
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**2** 204 ELEVATION  
 SCALE: 1/4"=1'-0"



**4** 204 ELEVATION  
 SCALE: 1/4"=1'-0"



**3** 204 OBSERVATION PIT DETAILS  
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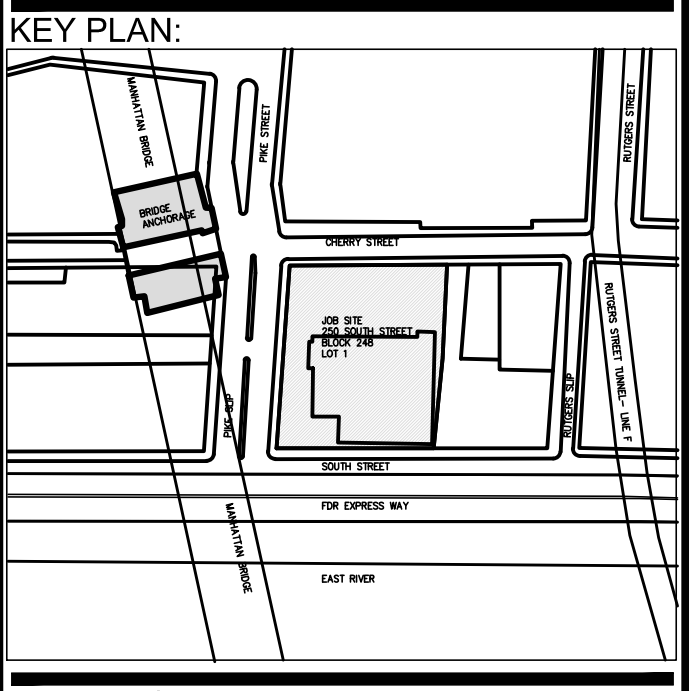
**OBSERVATION PIT SEQUENCE AT STEAM LINE:**

1. EXCAVATE 5.5X 4 FEET TIMBER SHEETED OBSERVATION PIT AT STEAM LINE LOCATION AS SHOWN.
2. INSTALL 3" TIMBER LAGGING AT NORTH, EAST AND WEST SIDES OF THE PIT TO THE TOP OF THE STEAM LINE ELEVATION. BERM SOIL AT SOUTH SIDE OF THE PIT.
3. HAND EXCAVATION SHALL BE PERFORMED WITHIN 2 FEET OF THE STEAM LINE.
4. HAND EXCAVATE TO BOTTOM OF STEAM LINE AND INSTALL LAGGING AT SOUTH, WEST AND EAST SIDE. MAINTAIN A 4X 4 FEET OBSERVATION PIT.
5. INVESTIGATE STEAM LINE SUPPORT.
6. PROPER PPE MUST BE WORN AT ALL TIMES FOR HIGH HEAT.

**227 CHERRY ST.-250 SOUTH ST.**  
 NEW YORK, NY, 10018

5	D.O.B. COMMENTS	08-04-14
4	T.A. COMMENTS	07-16-14
3	DESIGN UPDATE	07-09-14
2	T.A. COMMENTS	05-30-14
1	T.A. FILING	04-03-14

No: Revision: \_\_\_\_\_ Date: \_\_\_\_\_  
 AS NOTED



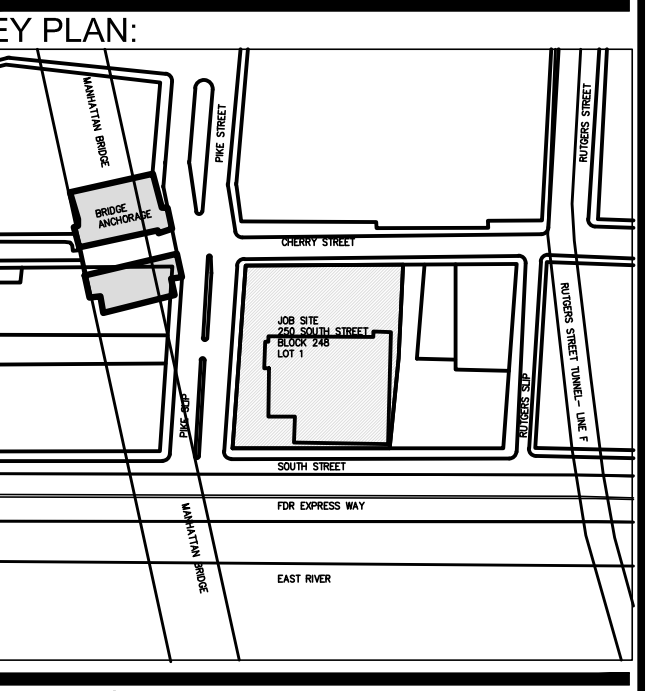
DRAWING TITLE:  
**SOE ELEVATIONS**

Damian Titus  
 Building  
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 Date: 10/02/2014  
 NYC Development Hub

SEAL  
 Date: 11-08-13  
 PROJECT No: 13046  
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5	D.O.B. COMMENTS	08-04-14
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3	DESIGN UPDATE	07-09-14
2	T.A. COMMENTS	05-30-14
1	T.A. FILING	04-03-14

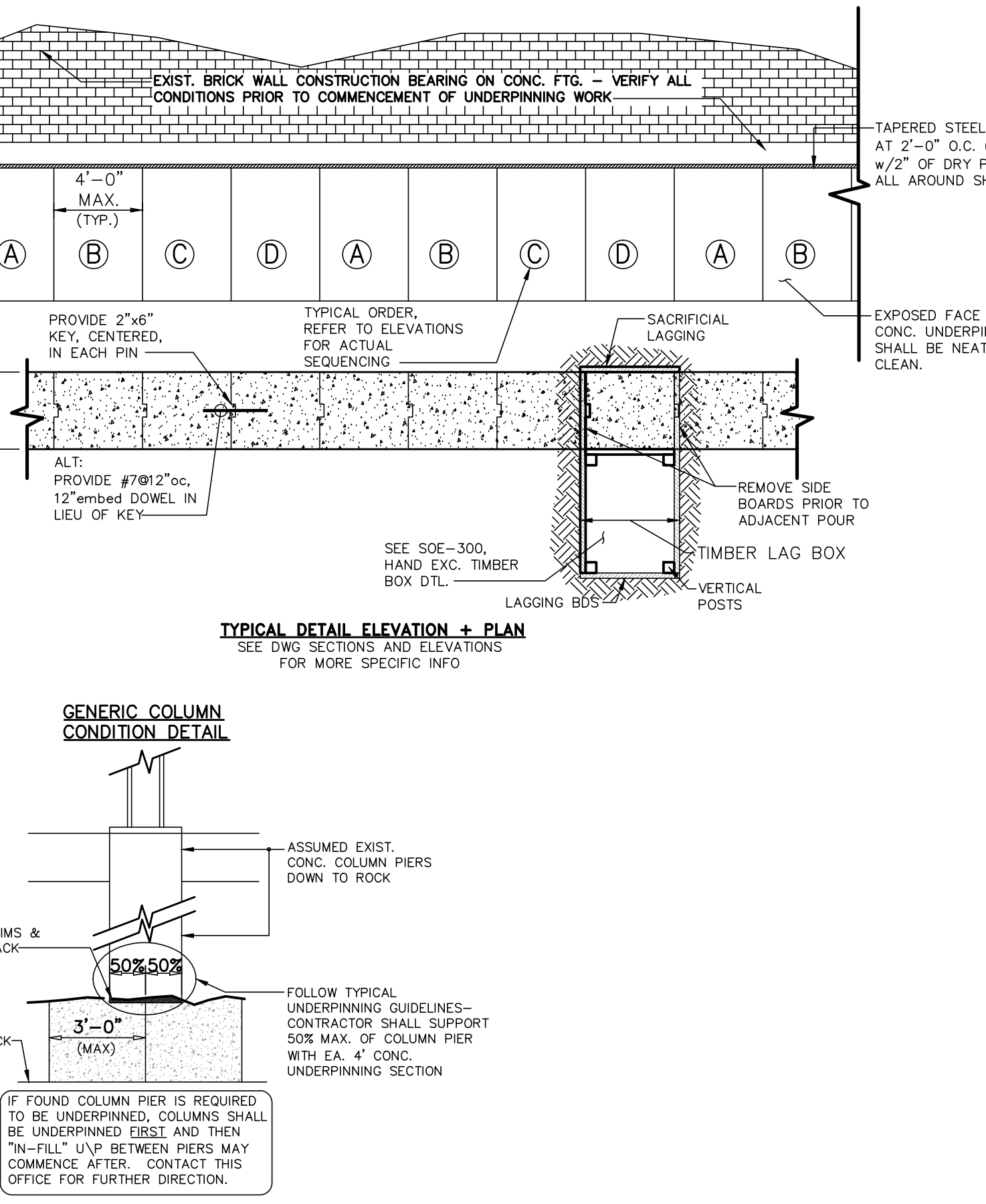
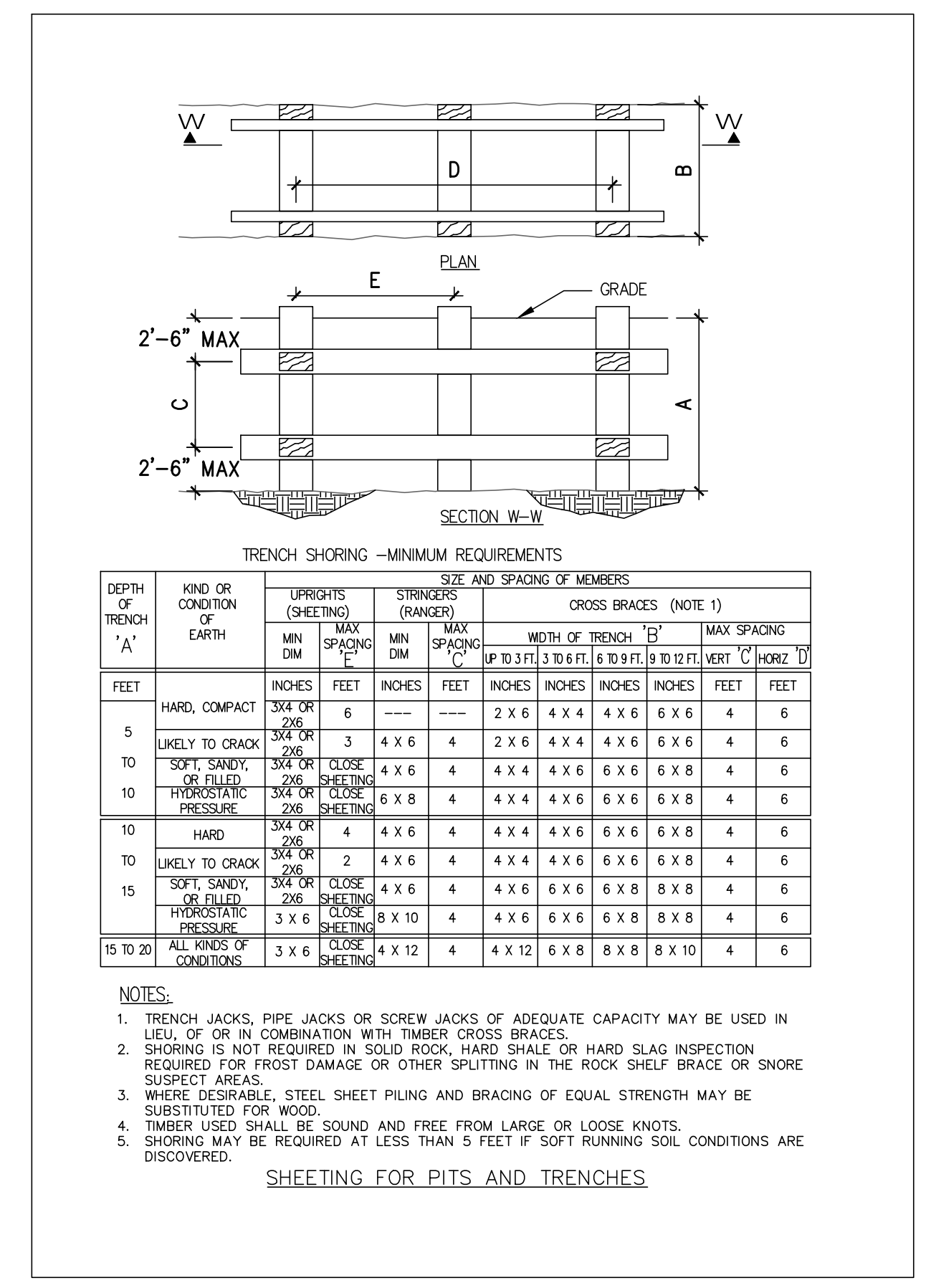
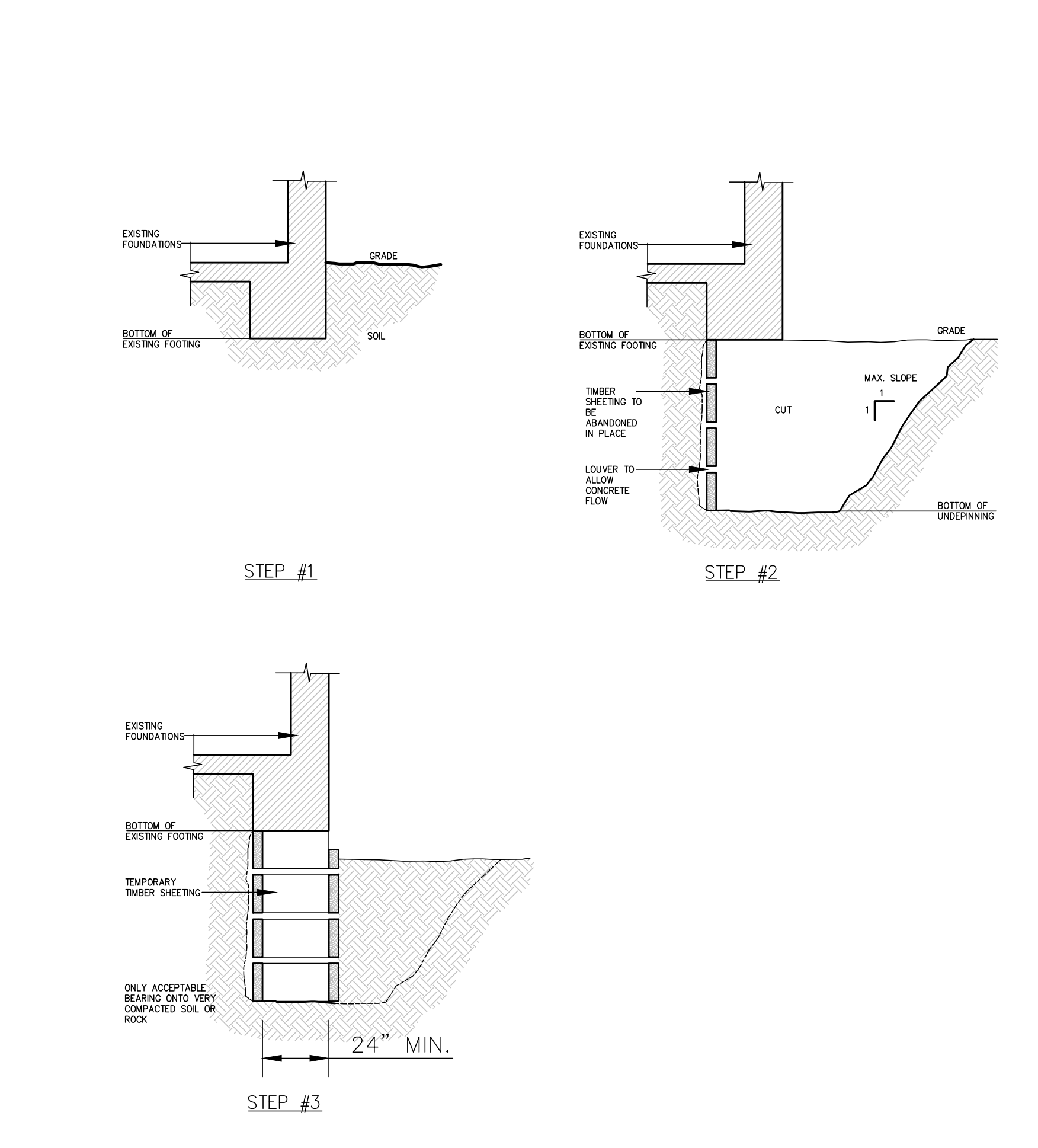
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DRAWING TITLE: SOE DETAILS

SEAL	Date	11-08-13
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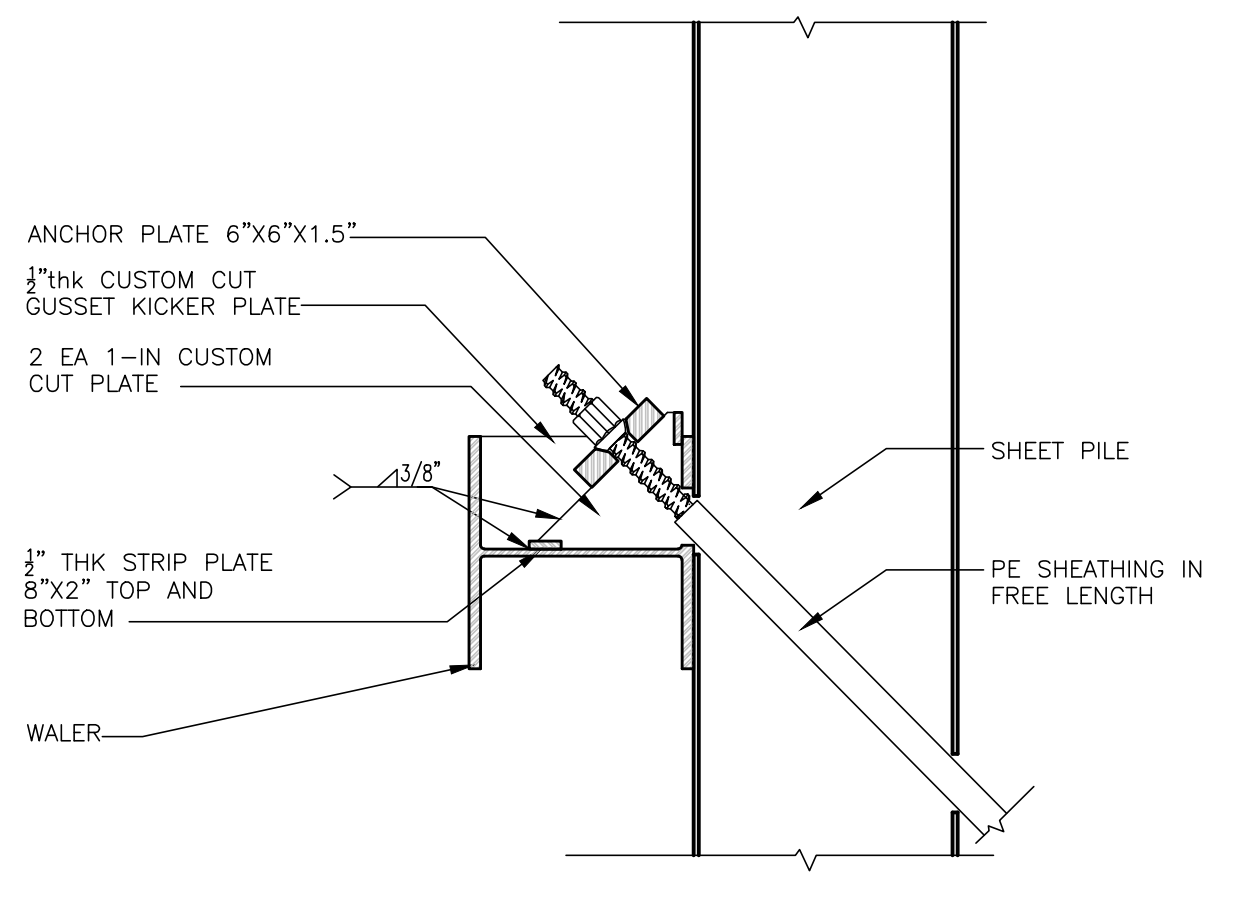
- GENERAL UNDERPINNING NOTES**
- THE CONTRACTOR SHALL COMPLY WITH ALL RELEVANT PROVISIONS OF THE NYC BUILDING CODE.
  - ALL FOUNDATIONS AND EARTHWORK OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NYC BUILDING CODE. ALL LOTS, BUILDINGS AND SERVICES ADJOINING THE FOUNDATION AND EARTHWORK AREAS SHALL BE PROTECTED AND PROPERLY SUPPORTED.
  - ALL TEST PITS, BORINGS, EXCAVATION WORK AND UNDERPINNING OPERATIONS ARE SUBJECT TO CONTROLLED INSPECTIONS.
  - THE OWNER SHALL RETAIN A LICENSED SURVEYOR TO SURVEY ALL LOAD BEARING WALLS, PIERS AND COLUMNS TO BE UNDERPINNED (UNLESS CONTRACTUALLY DEFINED OTHERWISE). THE SURVEYOR SHALL CHECK THE DATUM OF SUCH STRUCTURAL ELEMENTS EVERY TWO WEEKS FOR THE DURATION OF THE WORK.
  - THERE SHALL BE A PRE-CONSTRUCTION MEETING WITH THE OWNER, ARCHITECT, ENGINEER OF RECORD, GENERAL CONTRACTOR AND FOUNDATION SUB-CONTRACTOR(S) PRIOR TO WORK COMMENCING.
  - ALL ADJACENT PROPERTIES, INCLUDING BUT NOT LIMITED TO EXISTING WALLS AND FOOTINGS ARE TO BE OBSERVED BY THE ENGINEER OF RECORD AND ENGINEER RESPONSIBLE FOR THE CONTROLLED INSPECTIONS PRIOR TO WORK COMMENCING.
  - THE CONTRACTOR SHALL REQUEST PERMISSION TO ENTER BUILDINGS DIRECTLY ADJACENT TO THE AREAS OF PROPOSED UNDERPINNING.
  - NO FOUNDATION OR EARTHWORK PERMIT SHALL BE ISSUED UNTIL AT LEAST FIVE DAYS AFTER A WRITTEN NOTICE OF THE PERMIT APPLICATION HAS BEEN PROVIDED BY THE APPLICANT TO THE OWNER OF ALL ADJOINING LOTS, BUILDINGS AND SERVICE FACILITIES, WHOM MAY BE AFFECTED BY THE PROPOSED FOUNDATION WORK OR EARTHWORK OPERATIONS.
  - THE UNDERPINNING FOUNDATIONS SHALL BEAR ON SUBGRADE HAVING A BEARING CAPACITY EQUAL TO OR GREATER THAN THE SUBGRADE OF THE EXISTING FOUNDATION. THE SUBGRADE AT THE LEVEL OF THE EXISTING FOUNDATION SHALL BE INSPECTED BY A LICENSED PROFESSIONAL ENGINEER RETAINED BY THE OWNER (UNLESS CONTRACTUALLY DEFINED OTHERWISE) TO VERIFY THE BEARING CAPACITY, AND DEFICIENCIES BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.
  - DO NOT TRANSFER THE BUILDING LOAD ONTO NEW UNDERPINNING WALLS UNTIL ALL WALLS HAVE ATTAINED 50% OF THE CONCRETE DESIGN STRENGTH, AS CONFIRMED BY THE CYLINDER TESTS, OR 96 HOURS.
  - ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
  - ALL GROUT SHALL BE NONSHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI.
  - ALL DRYPACK SHALL BE A MIXTURE OF 1 PART CEMENT AND 2 PARTS DAMP SAND, WITH 0-INCH SLUMP.
  - ALL UNDERPINNING SHEETING AND BRACING TO REMAIN SHALL BE PRESSURE TREATED LUMBER AND/OR OTHER APPROVED MATERIAL.
  - EXCAVATION BELOW THE WATER TABLE SHOULD BE AVOIDED, IF POSSIBLE. DEWATER THE SITE PRIOR TO EXCAVATION. EXCAVATION MAY ONLY PROCEED AFTER REVIEW BY THE ENGINEER OF RECORD.
  - IF WATER IS ENCOUNTERED IN THE PIT, PROVIDE LOCAL PUMPING TO REMOVE WATER FROM THE PIT.
  - ALL SIDES OR SLOPES OF EXCAVATIONS OR OUBANMENTS SHALL BE INSPECTED AFTER RAINSTORMS.
  - THE UNDERPINNING SHALL BE CONSTRUCTED IN A MANNER SUCH THAT THE EXPOSED FACE OF THE CONCRETE IS VERTICAL (OR AS OTHERWISE SPECIFIED), CLEAN AND NEAT.



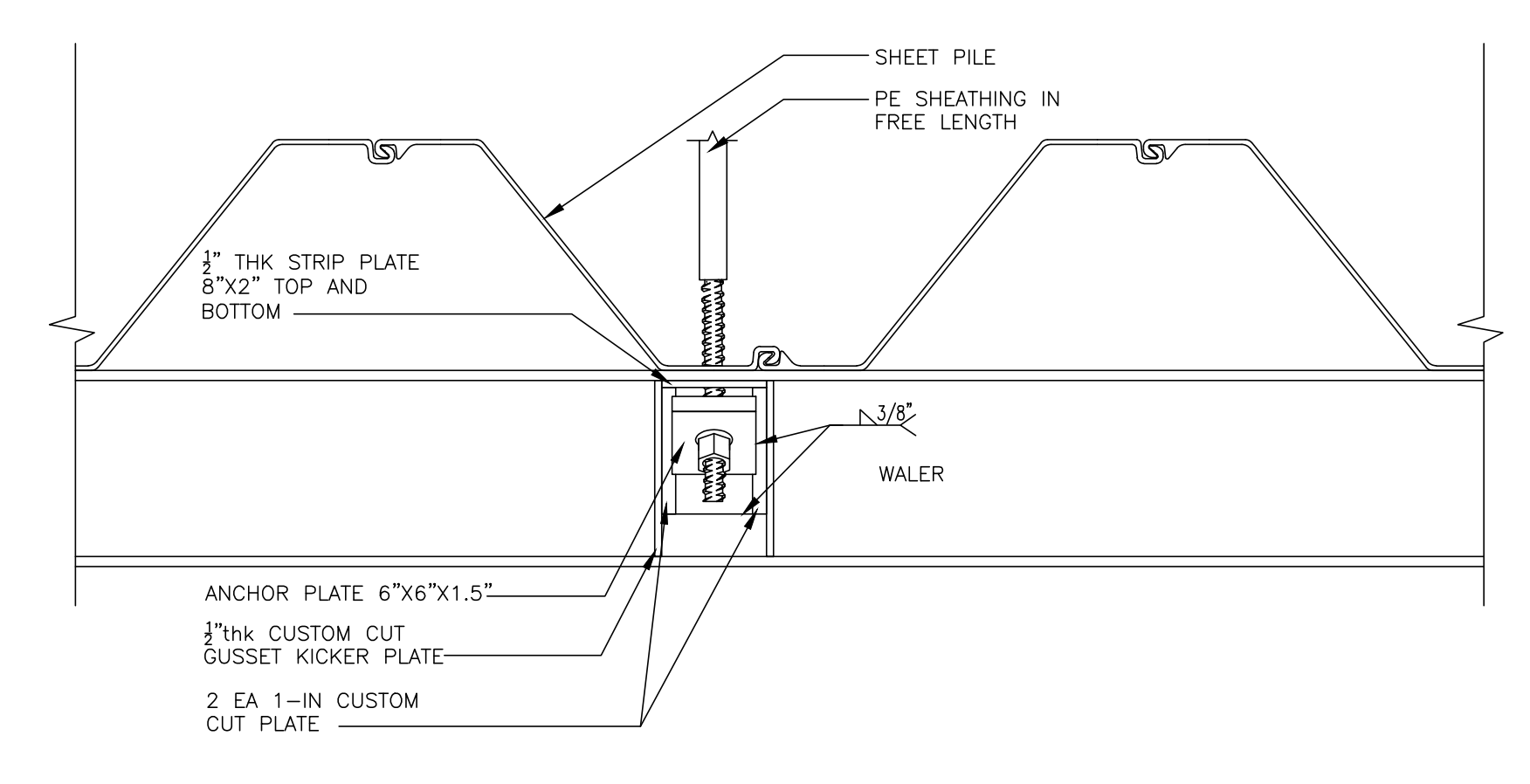
1 TYPICAL UNDERPINNING DETAILS  
300 NOT TO SCALE

2 APPROACH PIT DETAIL  
300 NOT TO SCALE

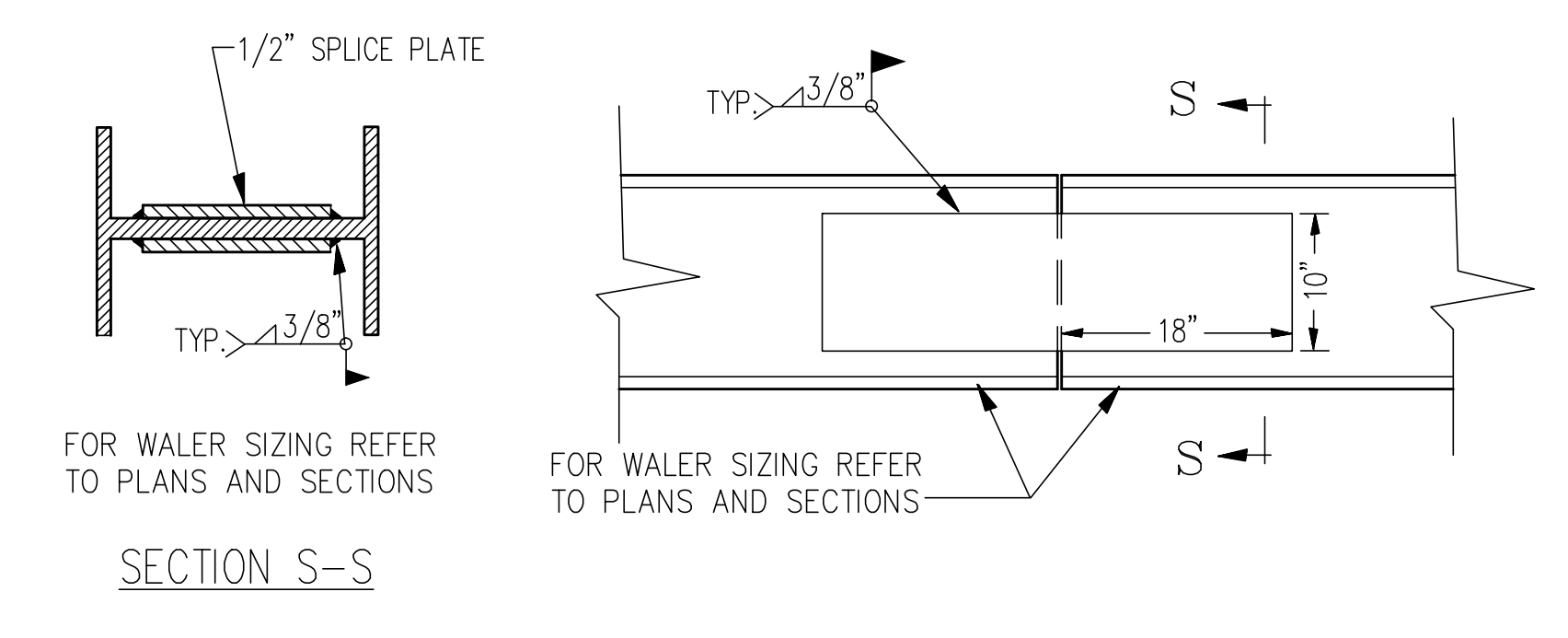
3 PITS AND TRENCHES SHEETING  
300 NOT TO SCALE



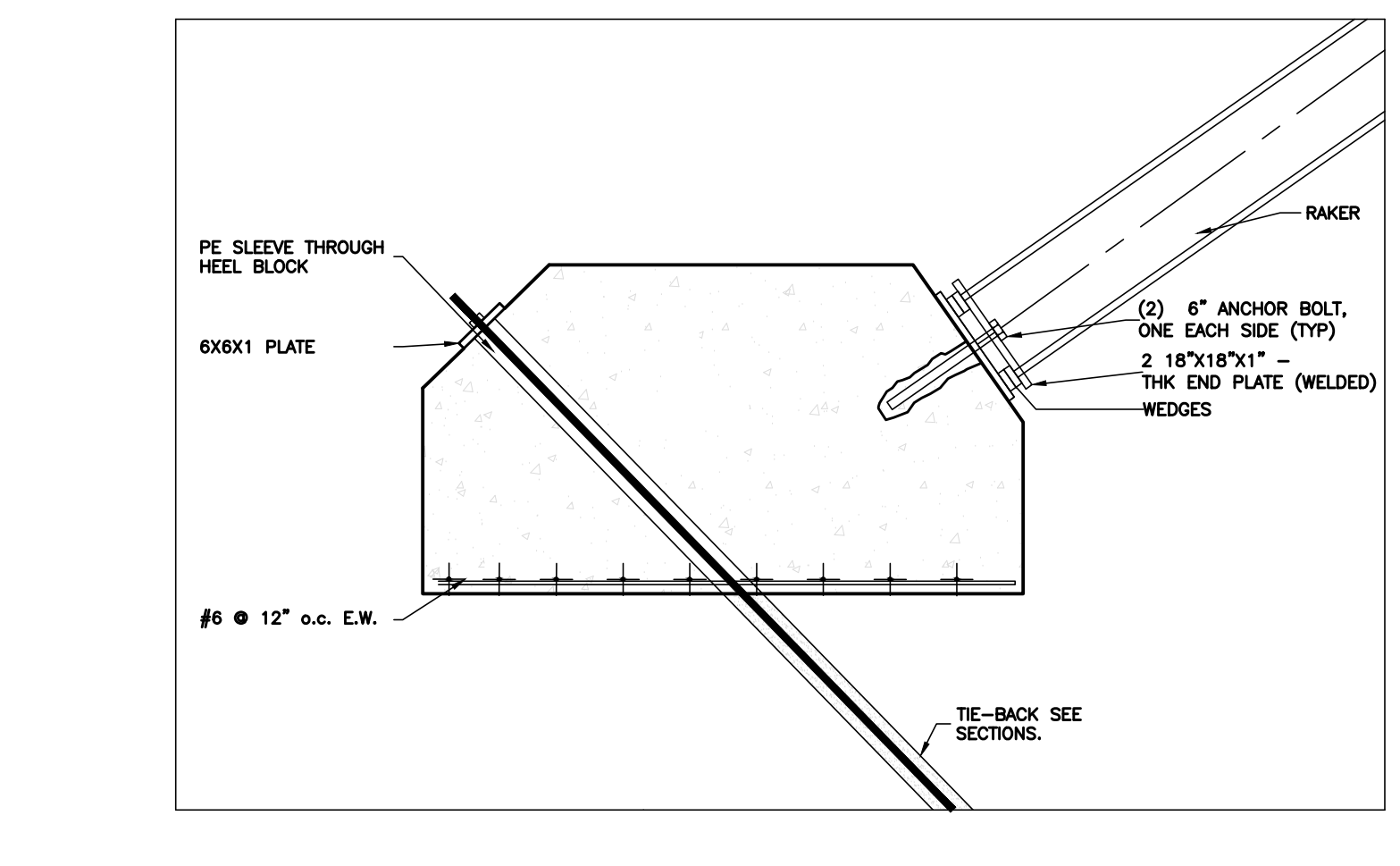
4 TIE-BACK THRU WALER DETAIL  
300 NOT TO SCALE



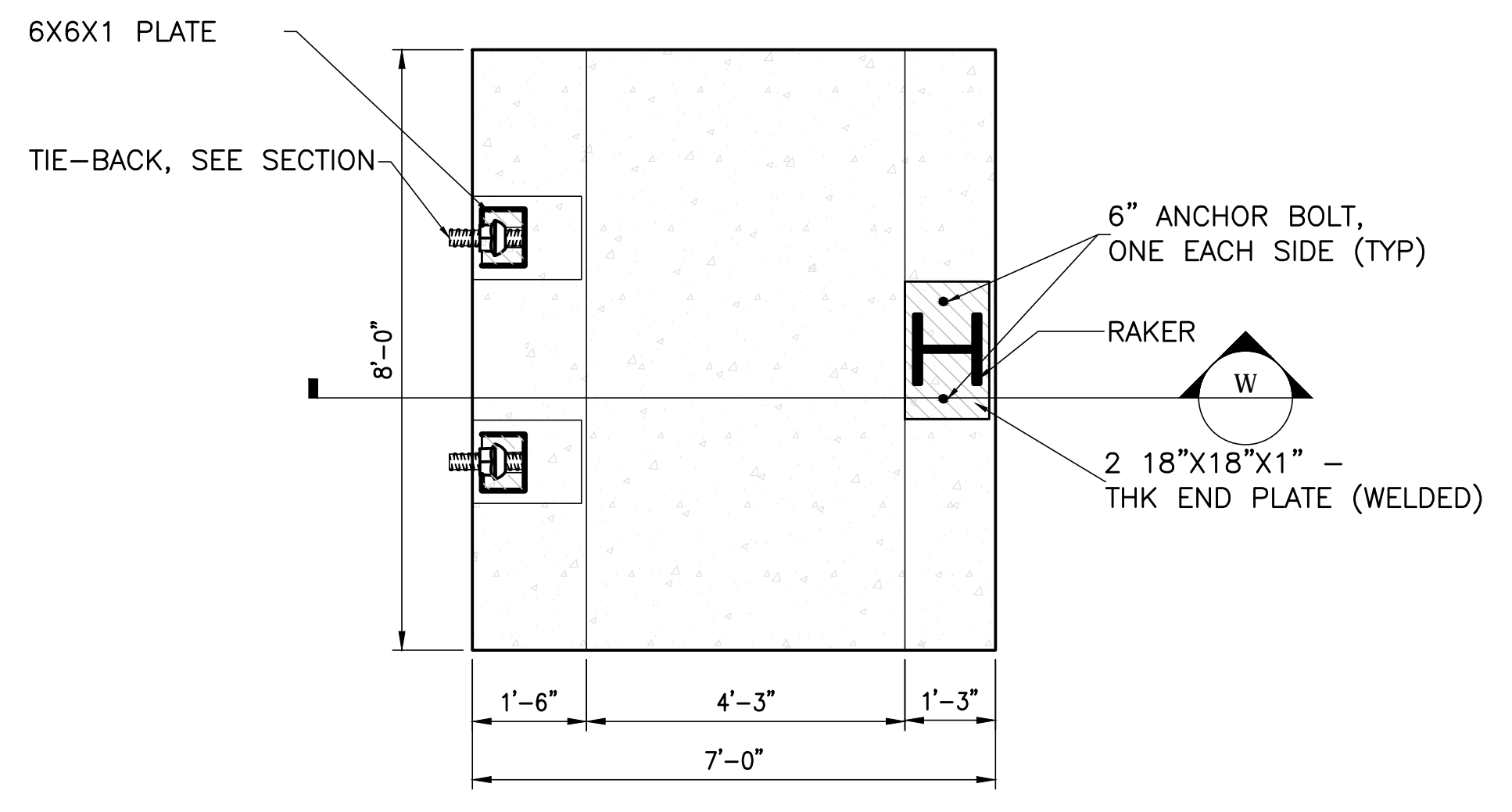
5 CORNER BRACE DETAIL  
300 NOT TO SCALE



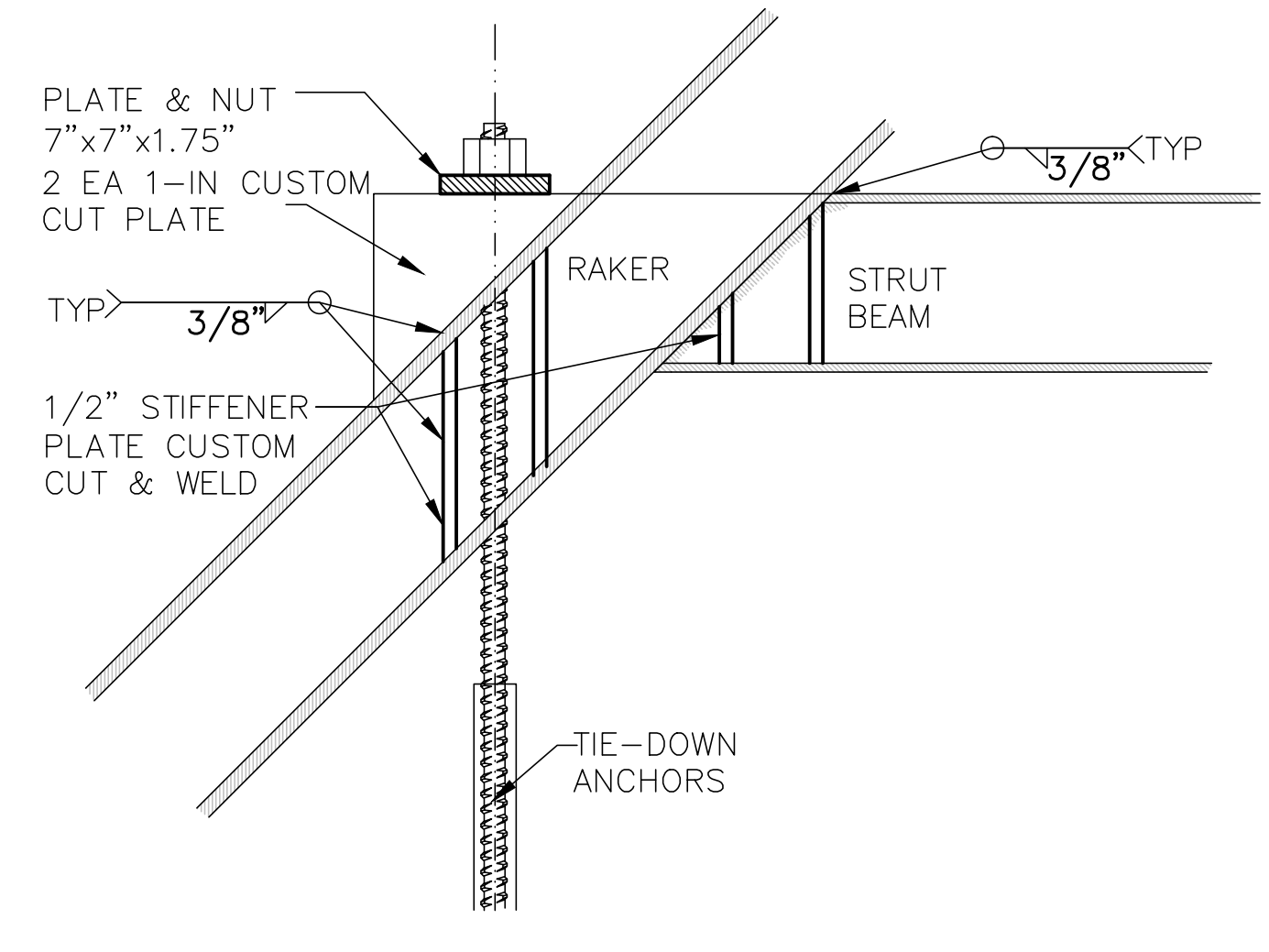
6 WALER SPlice DETAIL  
300 NOT TO SCALE



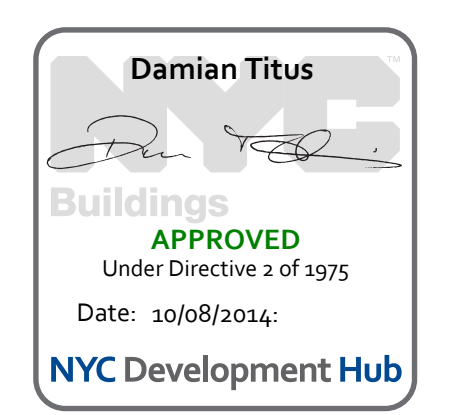
7 HEEL BLOCK/ RAKER DETAIL  
300 NOT TO SCALE

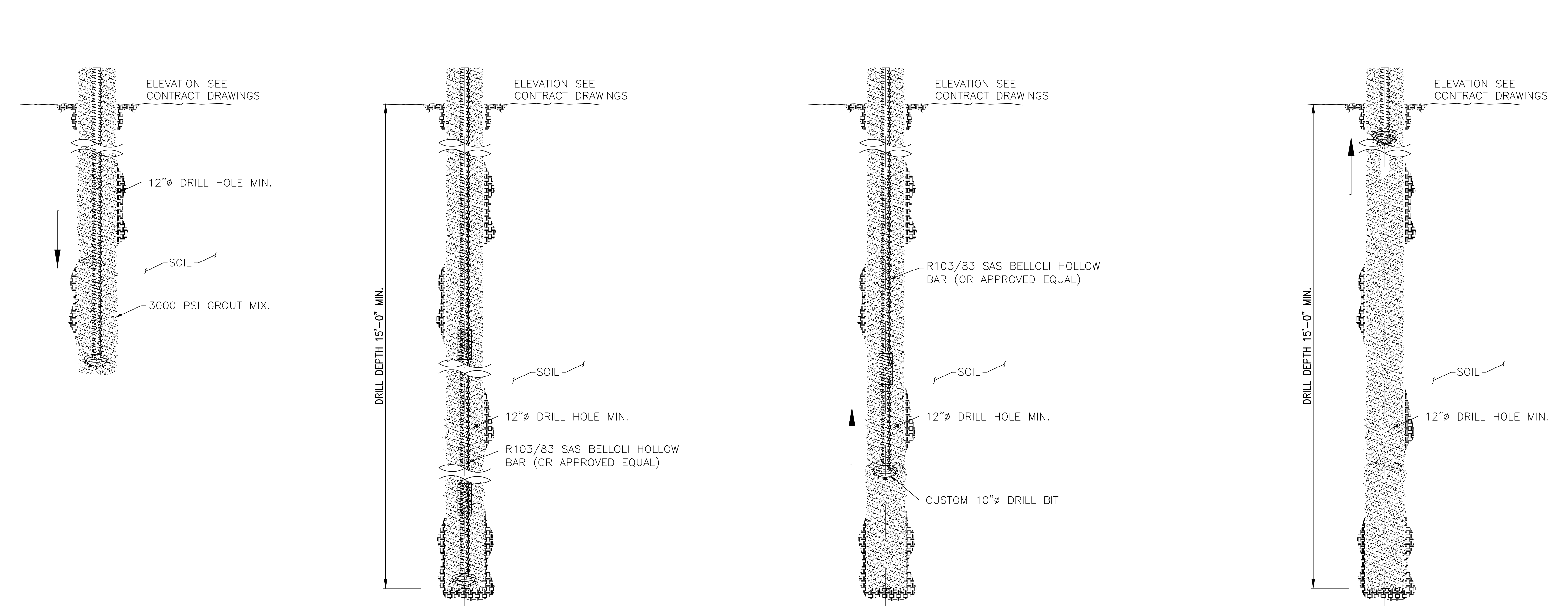


8 TIE-DOWN/ STRUT AT RAKER DETAIL  
300 NOT TO SCALE



9 RAKER/ WALER DETAIL  
300 NOT TO SCALE





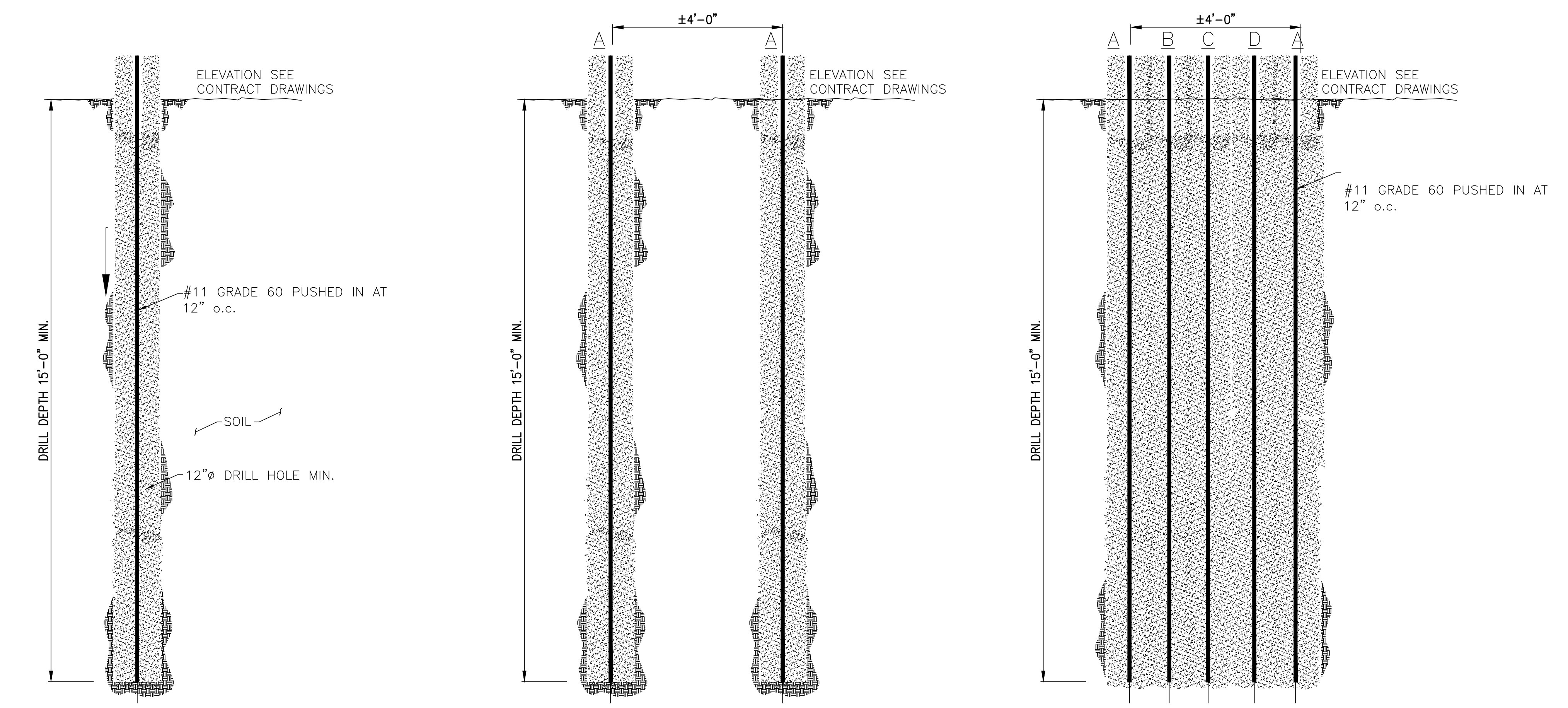
**STEP #1**  
 DRILL BELLOLI HOLLOW CORE BARS AT ±4'-0" UNDER PRESSURE GROUTING

**STEP #2**  
 DRILL BELLOLI HOLLOW CORE TO SPECIFIED DEPTH

**STEP #3**  
 REMOVE BELLOLI BAR WHILE MAINTAINING GROUTING PRESSURE

**STEP #4**  
 FULLY REMOVE BELLOLI FROM GROUTED HOLE

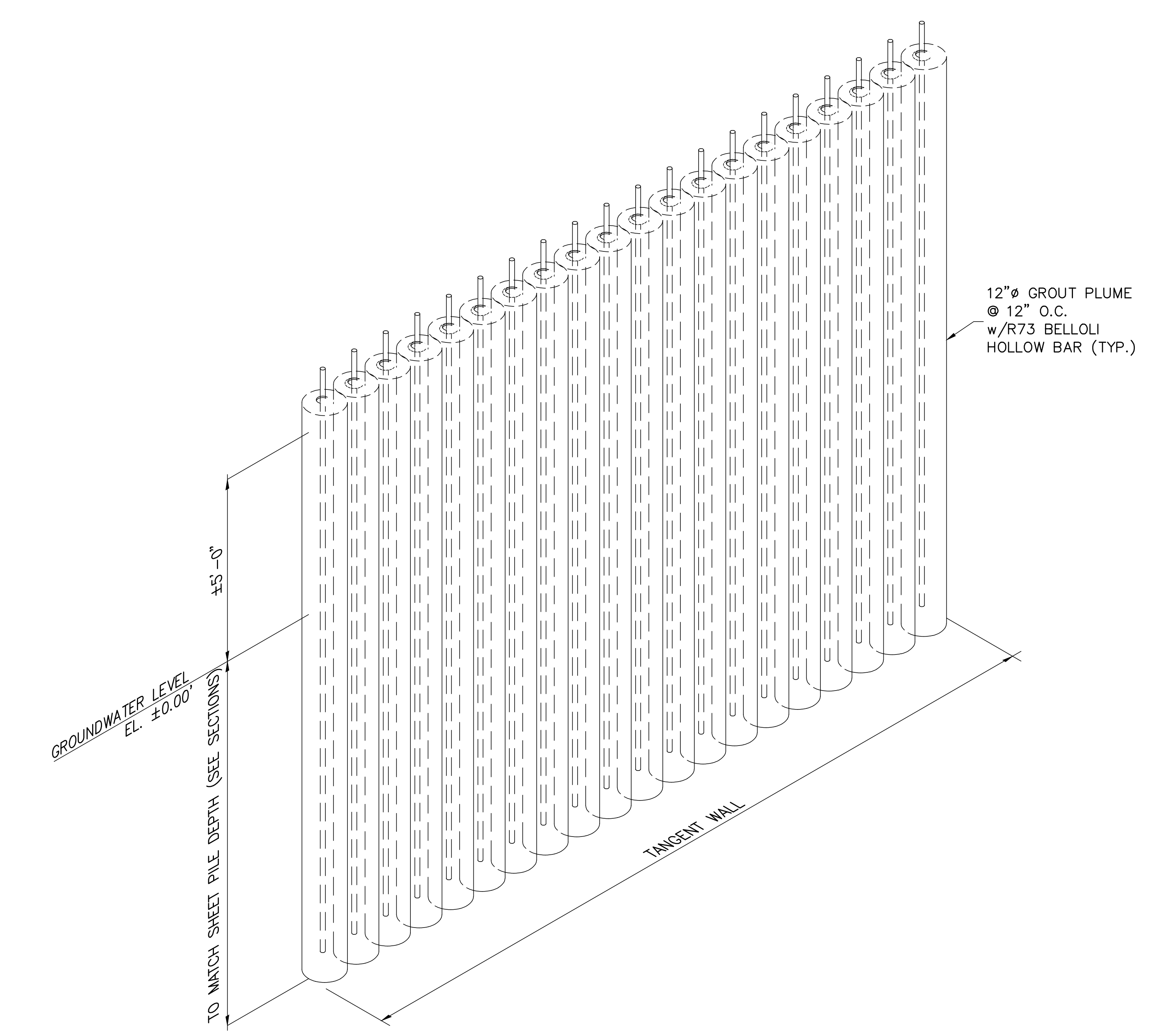
- DRILLING CONSTRUCTION PROCEDURE:
1. CONTRACTOR SHALL DRILL ALL "A" BELLOLI ANCHORS TO SPECIFIED DEPTH AS INDICATED ON THIS DRAWING AT ±4'-0".
  2. DRILLING OF ANCHOR SHALL BE DONE UNDER PRESSURE GROUTING METHOD WITH 3000 PSI GROUT. UPON REACHING FINAL DRILLING DEPTH ANCHOR SHALL BE REMOVED WHILE MAINTAINING GROUT PRESSURE.
  3. REPEAT STEPS 1-3 FOR ALL "A" ANCHORS.
  4. REPEAT STEPS 1-3 FOR ALL "B" ANCHORS.
  5. REPEAT STEPS 1-3 FOR ALL "C" ANCHORS.
  6. REPEAT STEPS 1-3 FOR ALL "D" ANCHORS.
  7. GROUTED DRILL HOLE SHALL BE 12" MINIMUM.



**STEP #5**  
 INSTALL 16'-0" #11 GRADE 60 BAR OR #18 GRADE 97

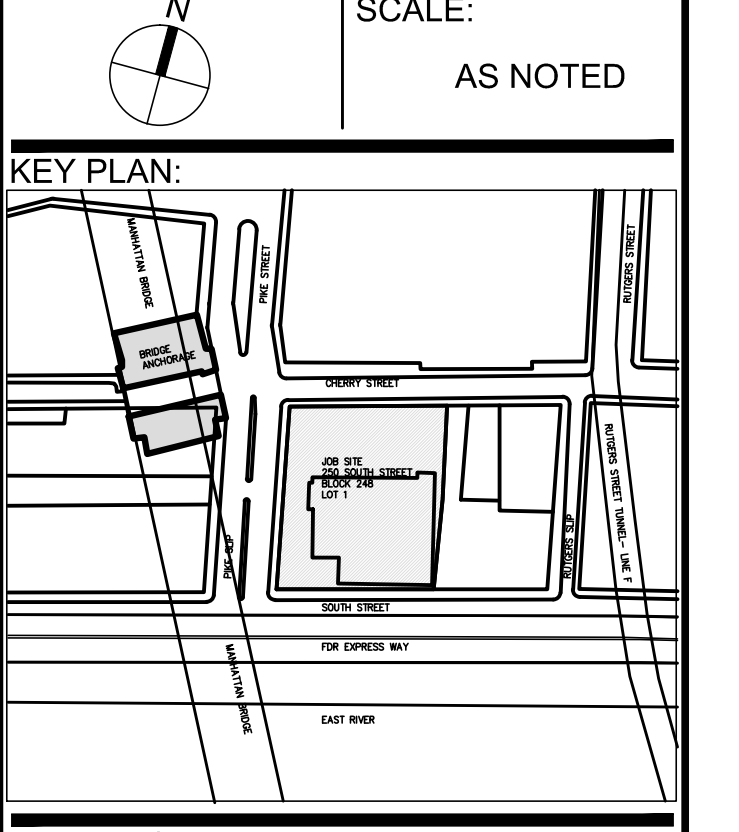
**STEP #6**  
 REPEAT STEPS 1-5 FOR ALL A BARS AT 4' o.c. SPACING

**STEP #7**  
 CONTINUE SAME DRILLING METHODS FOR ANCHORS "B", "C", AND "D" TO CREATE FULL TANGENT WALL



**227 CHERRY ST.-250 SOUTH ST.**  
 NEW YORK, NY, 10018

5	D.O.B. COMMENTS	08-04-14
4	T.A. COMMENTS	07-16-14
3	DESIGN UPDATE	07-09-14
2	T.A. COMMENTS	05-30-14
1	T.A. FILING	04-03-14



Damian Titus  
 Building  
 APPROVED  
 Under Directive 2 of 1995  
 Date: 10/02/2014  
 NYC Development Hub

DRAWING TITLE:  
**TANGENT WALL DETAILS AND PROCEDURES**

SEAL	Date
PROJECT No:	11-08-13
Drawn By:	GD
DWG. No:	13046
	SOE-301.00
	10 OF 10