

NOTES:

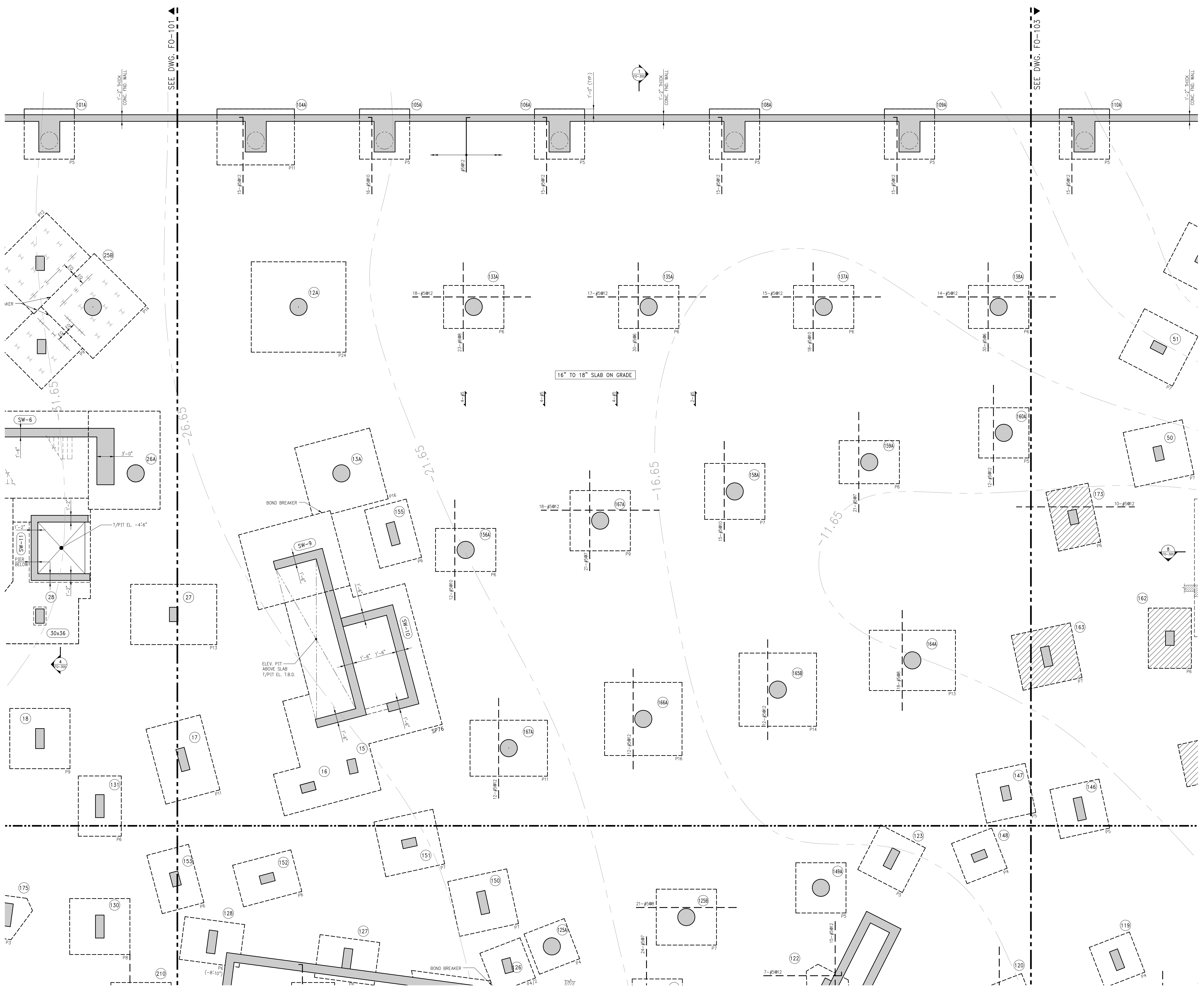
1. PRESSURE SLAB ON GRADE ELEVATION TO BE +2'±0" U.O.N. (CONC. ON PLAN)
2. PRESSURE SLAB TO BE 10" TO 12" THICK (1" ± 0.1 U.O.N. TO CONC. ON PLAN)
3. REINFORCEMENT TO BE 10# 12" O.C. (1" ± 0.1 U.O.N. TO CONC. ON PLAN)
4. TOP OF FLEC. CL. ELEV. TO BE +1'±2" (± 0.1 B.E.L.O. I.O.N. ELEV. AT LOW POINT) U.O.N. ON PLAN THIS ()
5. OUTLINE OF FLEC. CAPS TO COINCIDE WITH CENTERLINES OF CONCRETE PIPE, BUTTRESS, COLUMN OR WALLS ABOVE U.O.N. ON PLAN.
6. FOR GENERAL NOTES, NOTES, REVISIONS AND DETAILS SEE DRAWING FO-001
7. FOR SEAWALL MAT. DETAILS SEE DRAWINGS FO-100 & FO-101.
8. FOR FOUNDATION TYPICAL DETAILS SEE FO-200 SERIES DRAWINGS.
9. FOR FOUNDATION SECTIONS SEE FO-300 SERIES DRAWINGS.
10. LINK BEAM SECTIONS SEE FO-400 SERIES DRAWINGS.
11. FOR COLUMN SIZES, REINFORCEMENT AND DETAILS SEE S-950 SERIES DRAWINGS.
12. FOR FLOOD FLOOR LEVEL, CONSIDERED AT FOUNDATION DESIGN, IS ASSUMED TO BE AT 10.35 FEET.

SEAL & SIGNATURE:	DATE: 01/23/2015
	PROJECT #: 1490102
	SCALE: 1/16" = 1'-0"
	FO-100.00
	DWG NO.



A compass rose with a circle and a vertical line. The letter 'N' is at the top. A shaded area is in the upper right quadrant, bounded by a vertical line and a diagonal line.

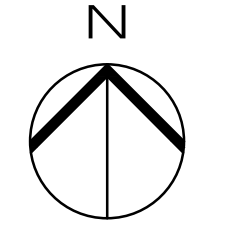
DWG NO. _____



1 FOUNDATION PLAN - PART 2
FO-102
SCALE: 3/16"=1'-0"

NOTES:
1. FOR BALANCE OF INFORMATION SEE FIRST CORRESPONDING FRAMING PLAN.

KEY PLAN



	03/06/2015	DOB SUBMISSION
	03/02/2015	FOUNDATION BID SET
Number:	Date:	Revision:

OWNER:
GID DEVELOPMENT
125 HIGH STREET
HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110

PROJECT:
RIVERSIDE CENTER BUILDING 1
NEW YORK, NY

EXECUTIVE ARCHITECT:
GHWA
Goldstein, Hill & West Architects, LLP
11 Broadway, Suite 1700
New York, NY 10004
Tel: (212) 213-8007 Fax: (212) 686-1754

DESIGN ARCHITECT:
KPF
Kohn Pedersen Fox
ASSOCIATES P.C.
11 West 42nd Street
New York, NY 10036
Tel: (212) 977-6500 Fax: (212) 956-2526

STRUCTURAL ENGINEER:
WSP BUILDING STRUCTURES
CONSULTING ENGINEERS
228 East 45th St, 3rd Floor
New York, NY 10017
Tel: (212) 687-9888 Fax: (646) 487-5501

MEPFP ENGINEER:
WSP BUILDING SYSTEMS
CONSULTING ENGINEERS
512 Seventh Avenue
New York, NY 10018
Tel: (212) 532-9600

DOB STAMPS & SIGNATURES


DWG TITLE:
FOUNDATION PLAN
PART 2


SEAL & SIGNATURE: 	DATE: 03/02/2015
PROJ. EST. #: 1490102	SCALE: 3/16"=1'-0"
DWG NO. FO-102.00	Sheet 50 of 61



Sheet 05 of 61



SEAL & SIGNATURE:	DATE: 03/02/2015
	PROJECT #: 1490102
	SCALE: 3/16"=1'-0"
	FO-104.00
	DWG NO.

SEAL & SIGNATURE:	DATE: 03/02/2015
	PROJECT #: 1490102
	SCALE: 3/16"=1'-0"
	FO-104.00
	DWG NO.

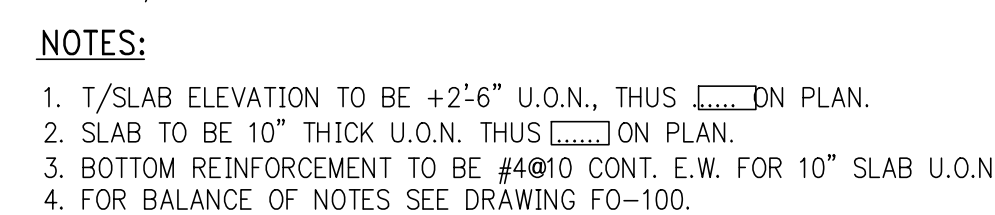



_____ DWS NO.

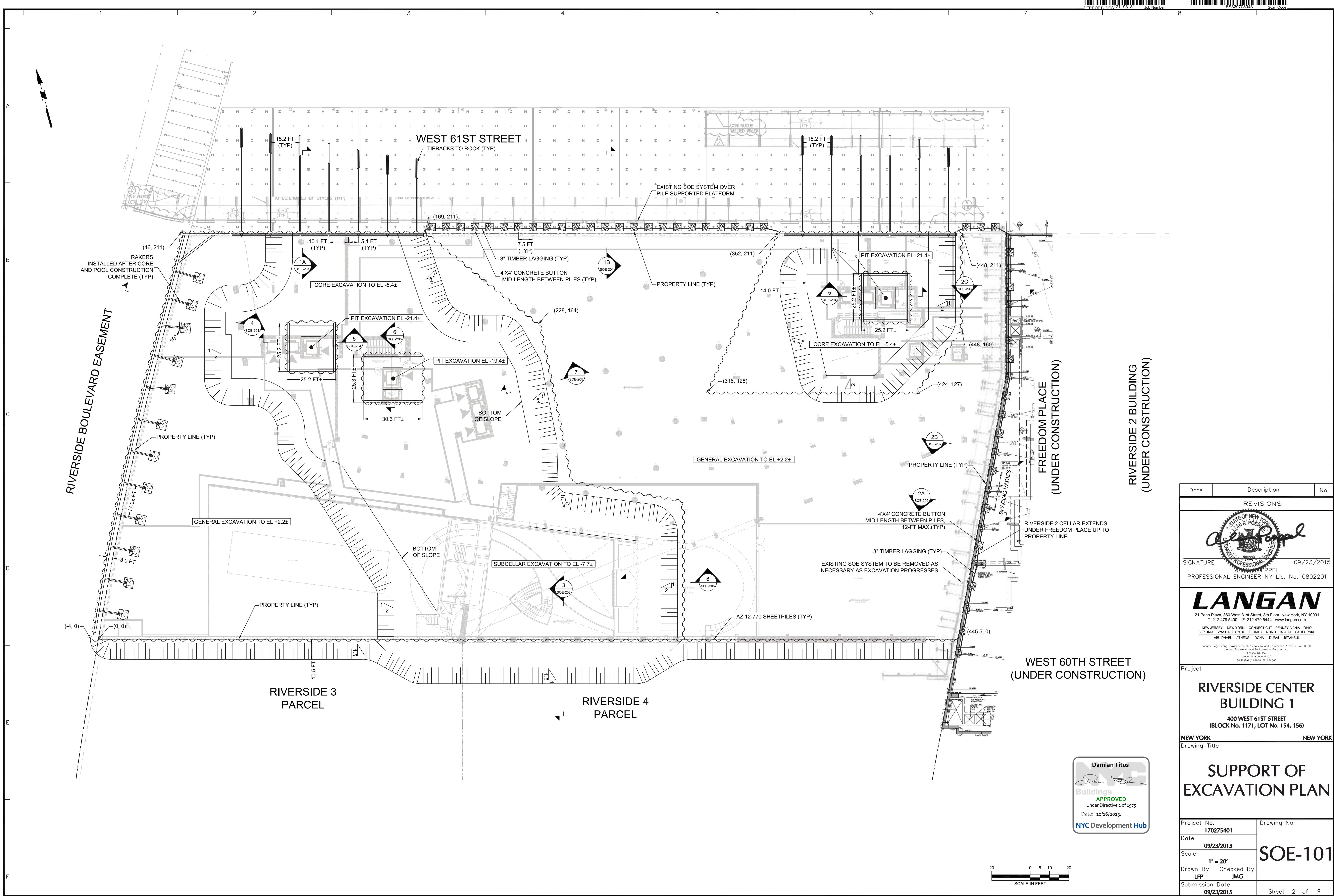






FO-106.00



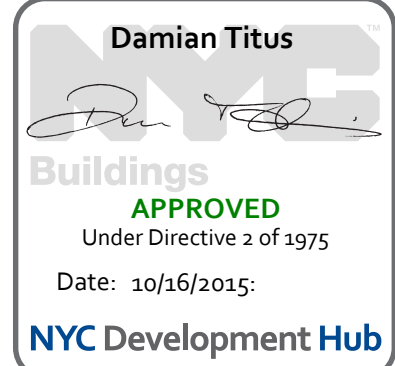
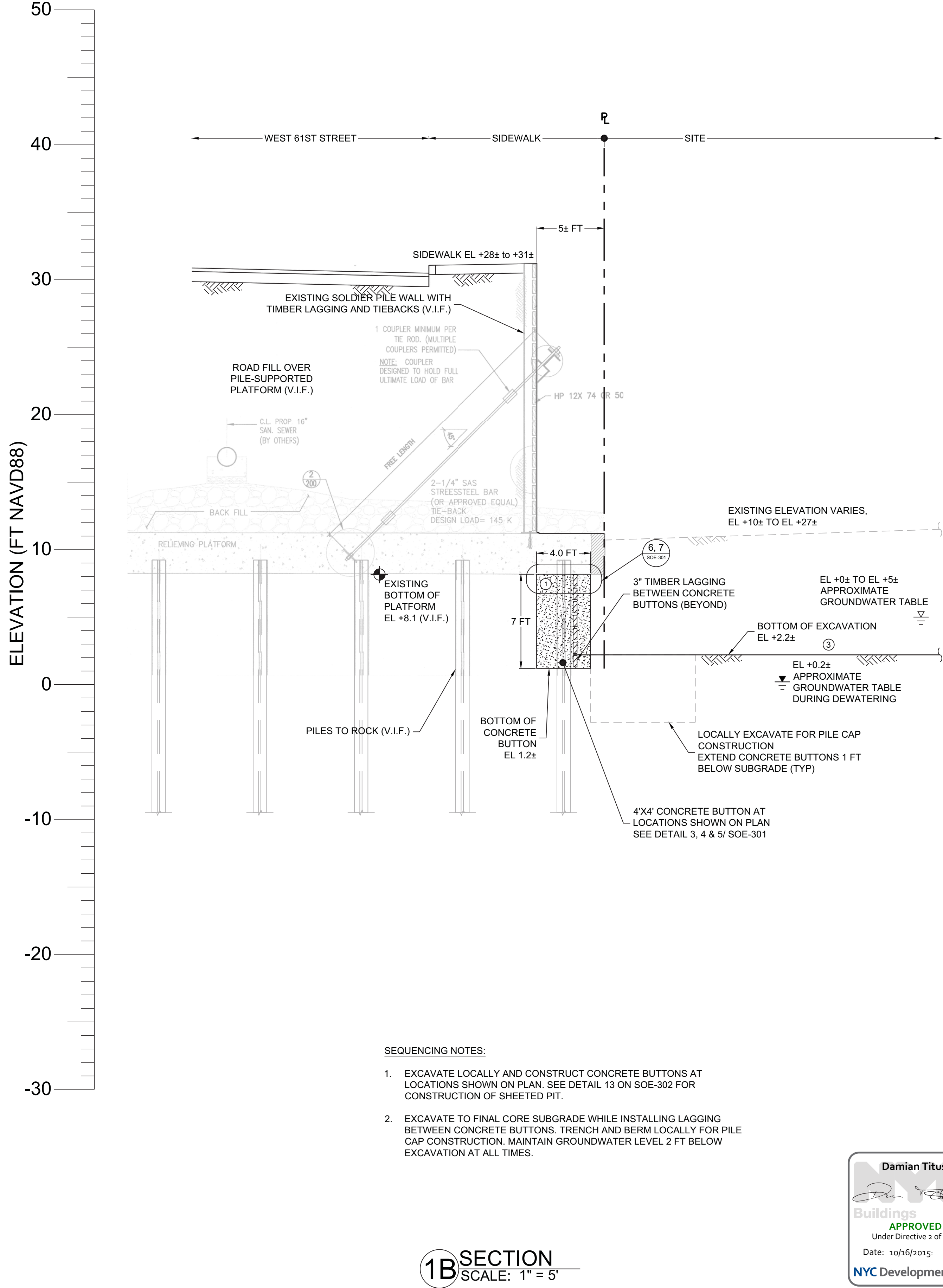
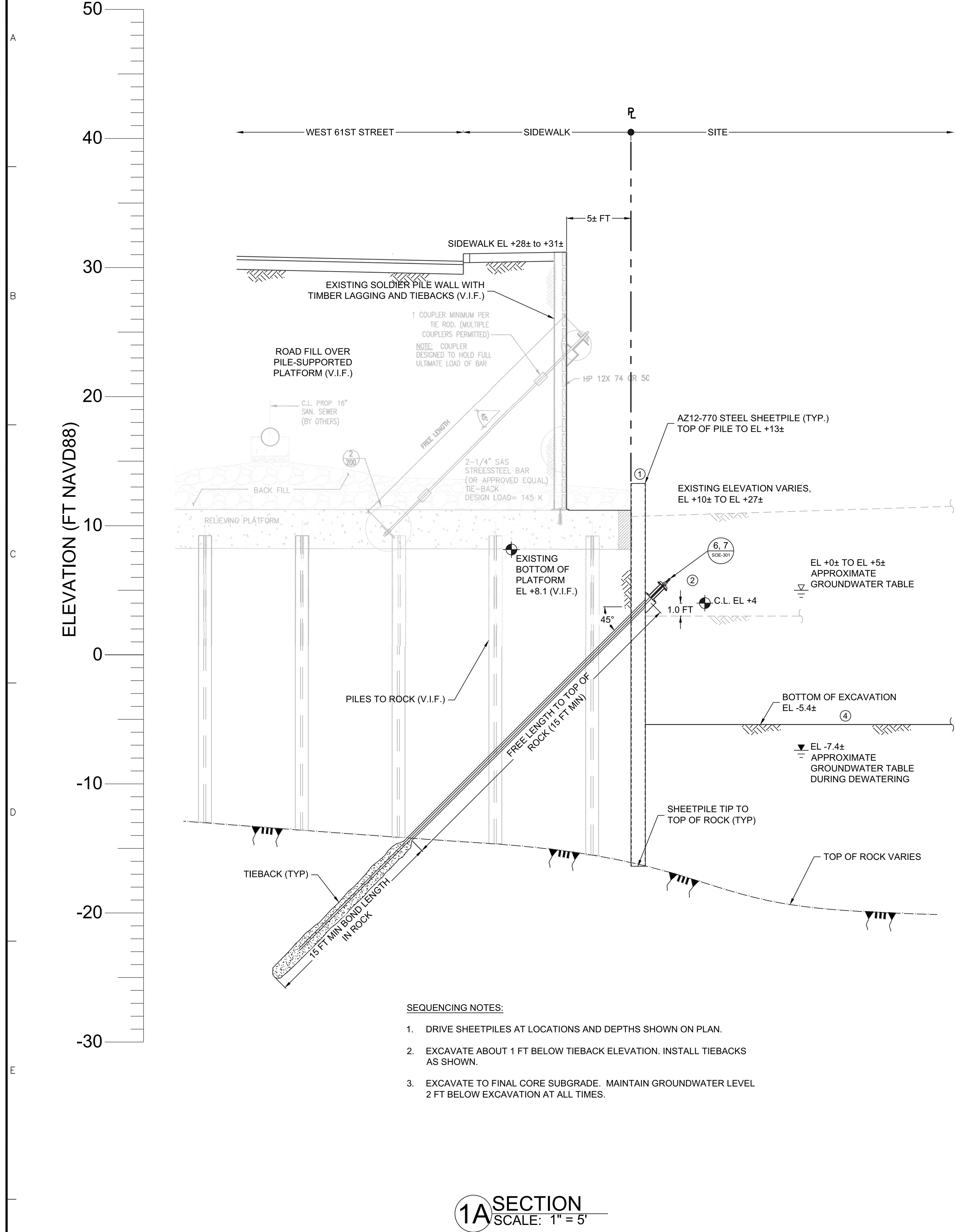
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	PROJECT #: 1480102
	SCALE: 1/16" = 1'-0"
	FO-800.00
	DWG NO.




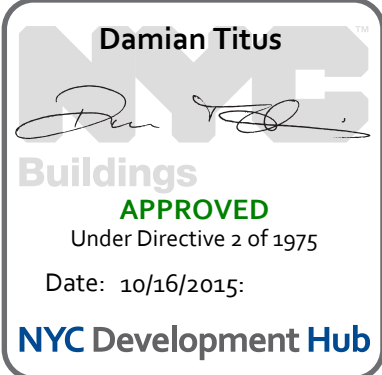
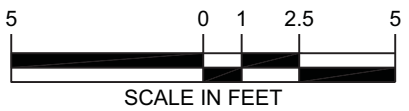
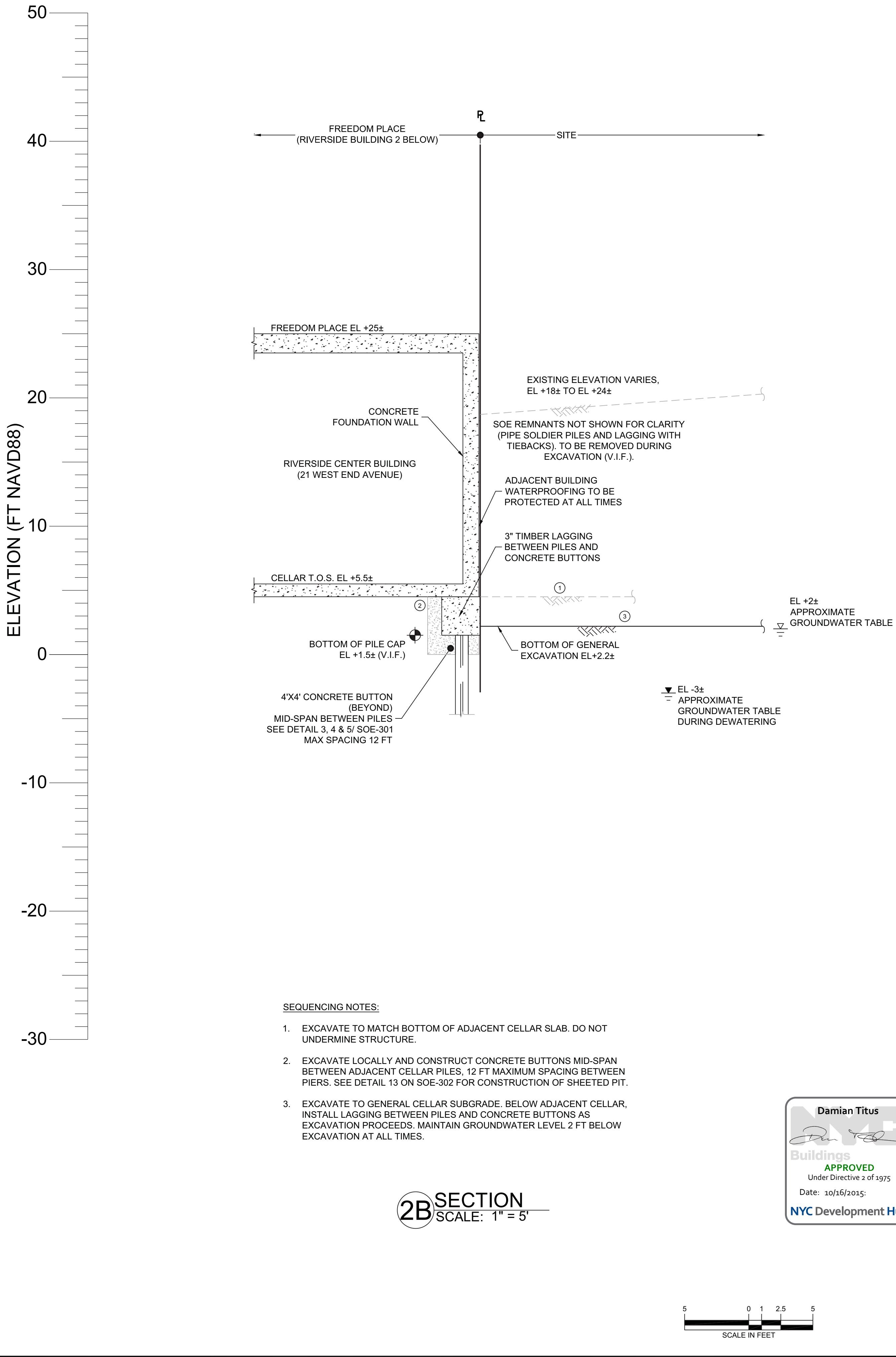
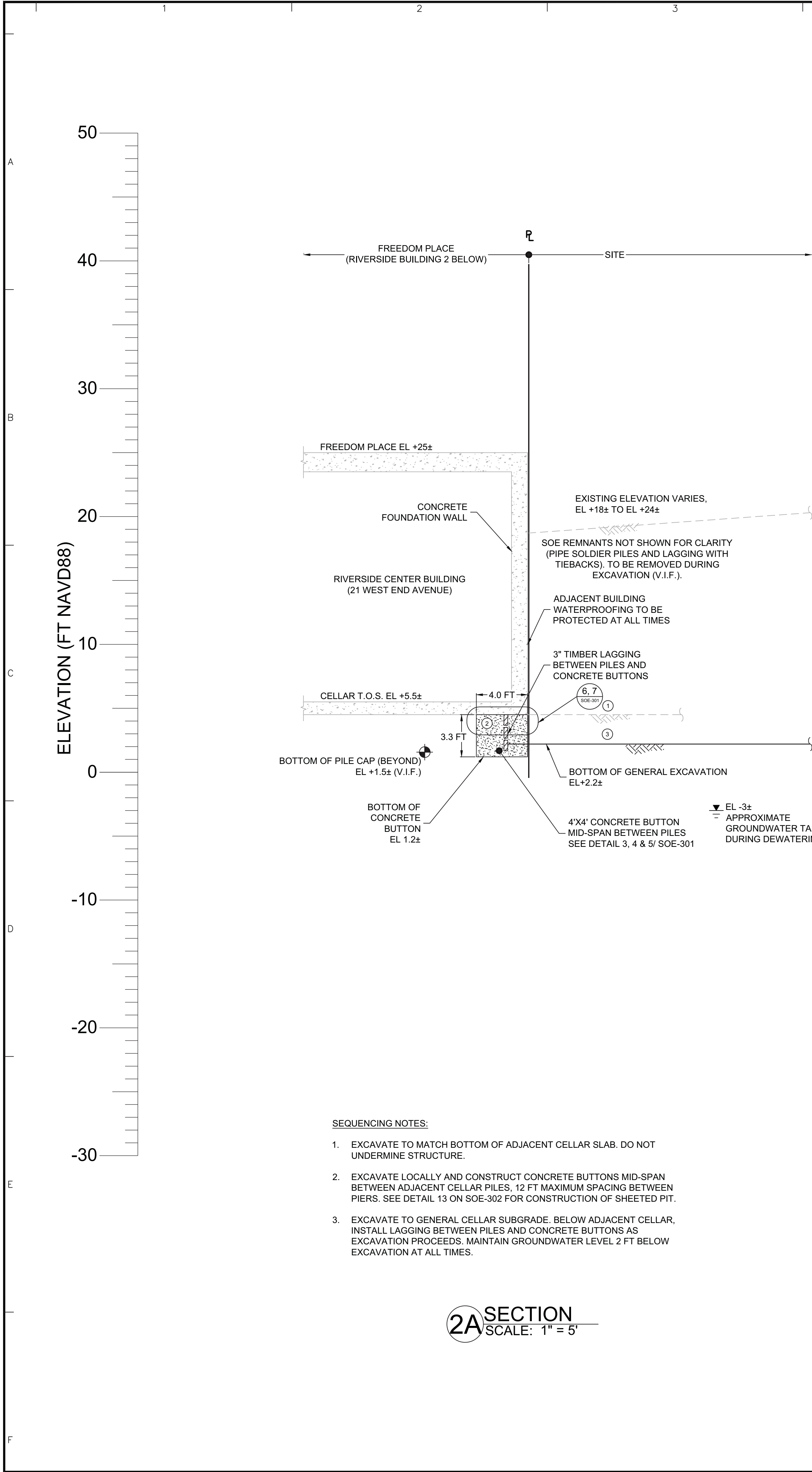
Date	Description	No.
REVISIONS		
		
SIGNATURE	09/23/2015	
PROFESSIONAL ENGINEER NY Lic. No. 0802201		
LANGAN		
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com NEW JERSEY NEW YORK CONNECTICUT PENNSYLVANIA OHIO VIRGINIA WASHINGTON DC FLORIDA NORTH DAKOTA CALIFORNIA ABU DHABI ATHENS DOHA DUBAI ISTANBUL Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. Langan Engineering and Environmental Services, Inc. Langan CT, Inc. Collectively known as Langan		
Project		
RIVERSIDE CENTER BUILDING 1		
400 WEST 61ST STREET (BLOCK No. 1171, LOT No. 154, 156)		
NEW YORK NEW YORK		
Drawing Title		
SUPPORT OF EXCAVATION PLAN		
Project No.		Drawing No.
170275401		
Date		
09/23/2015		
Scale		
1" = 20'		
Drawn By	Checked By	
LFP	JMG	
Submission Date		
09/23/2015		
Sheet 2 of 9		

Damian Titus

Buildings
APPROVED
Under Directive 2 of 1975
Date: 10/16/2015
NYC Development Hub

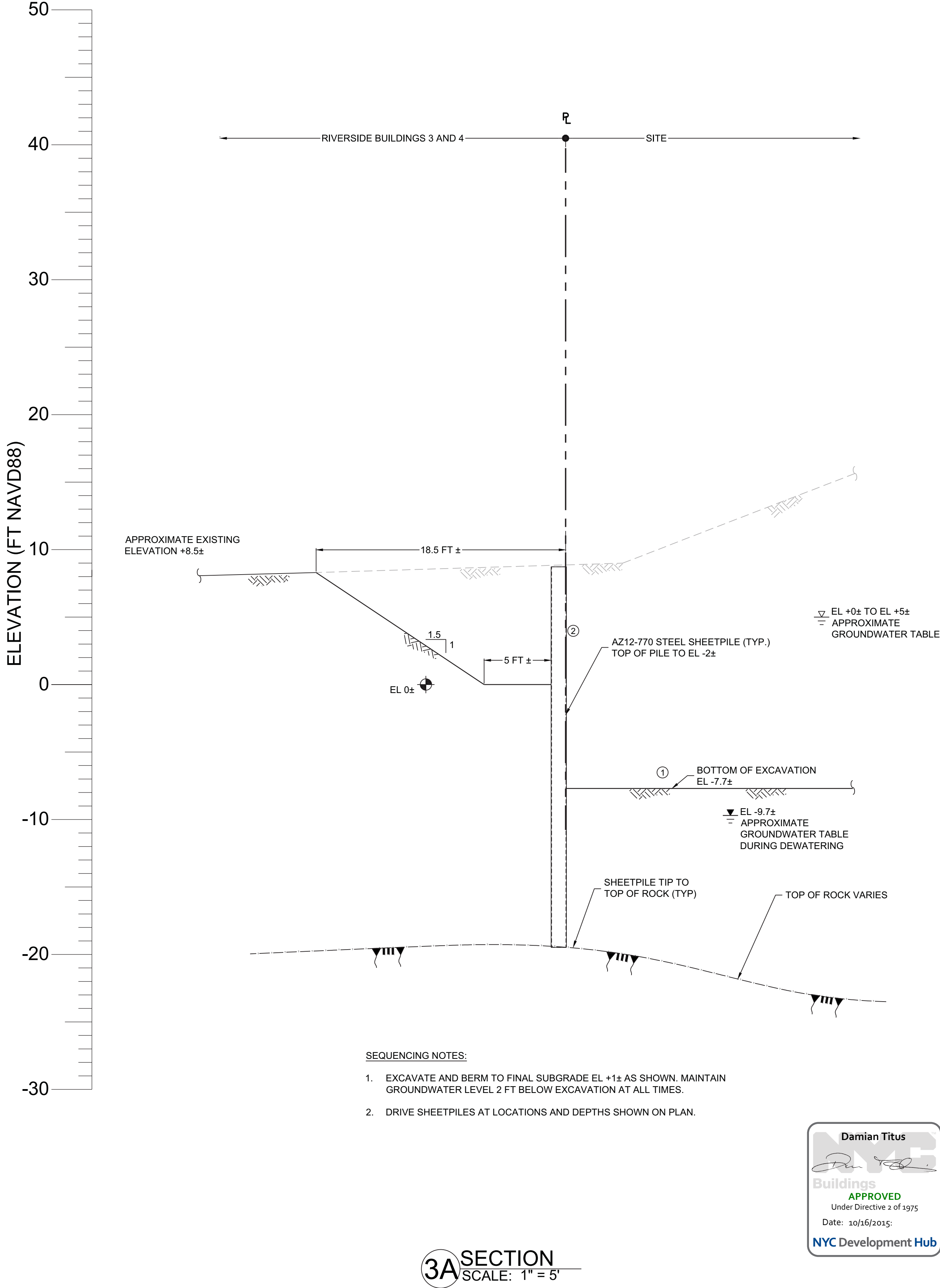
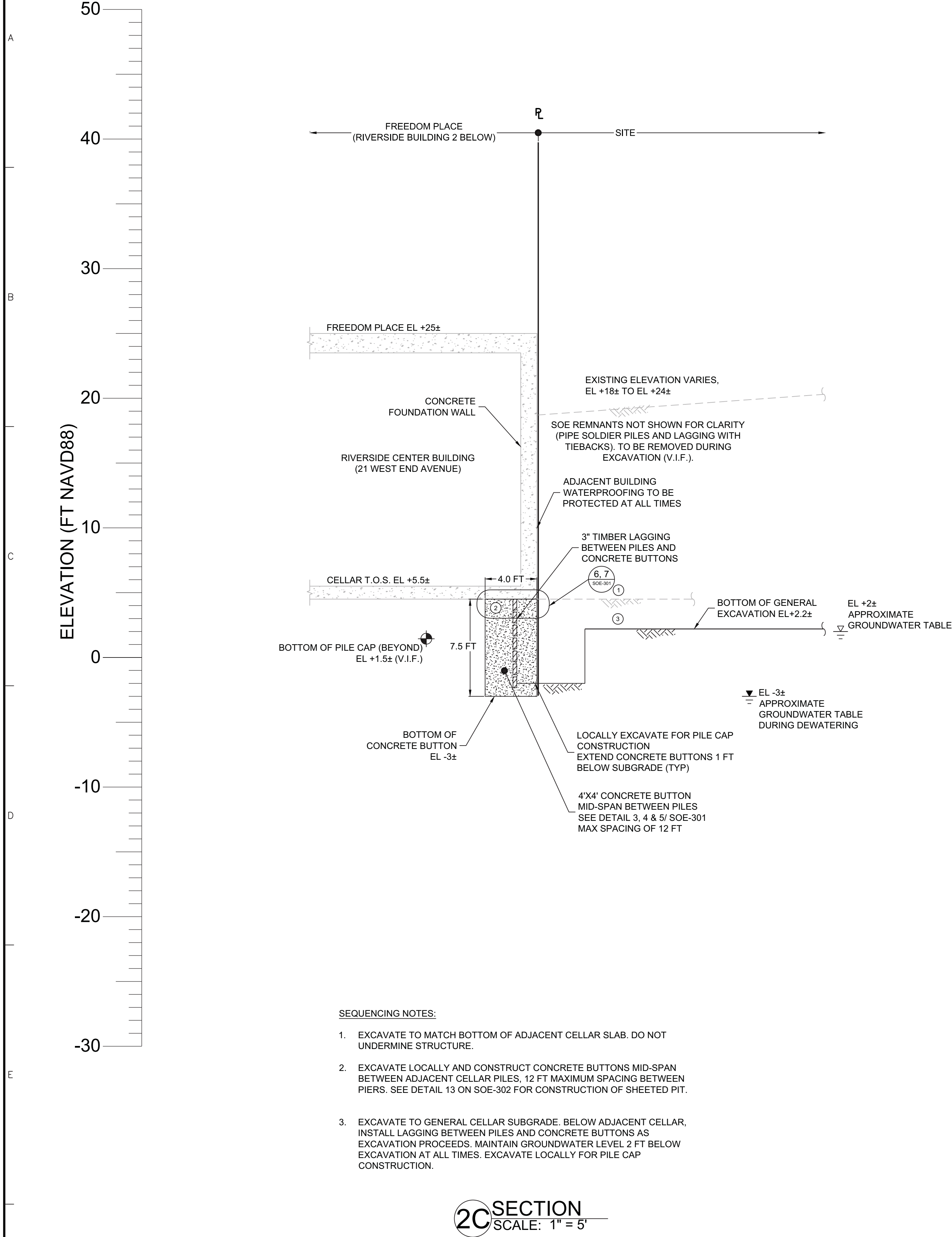




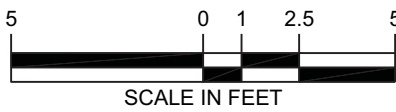
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REVISIONS		
		
SIGNATURE	09/23/2015	
DAMIAN R. POPPEL PROFESSIONAL ENGINEER NY Lic. No. 0802201		
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Project		
RIVERSIDE CENTER BUILDING 1 400 WEST 61ST STREET (BLOCK No. 1171, LOT No. 154, 156)		
NEW YORK		NEW YORK
Drawing Title		
SECTIONS		
Project No. 170275401		SOE-201
Date 09/23/2015		
Scale 1" = 5'		
Drawn By LFP	Checked By JMG	
Submission Date 09/23/2015		Sheet 3 of 9



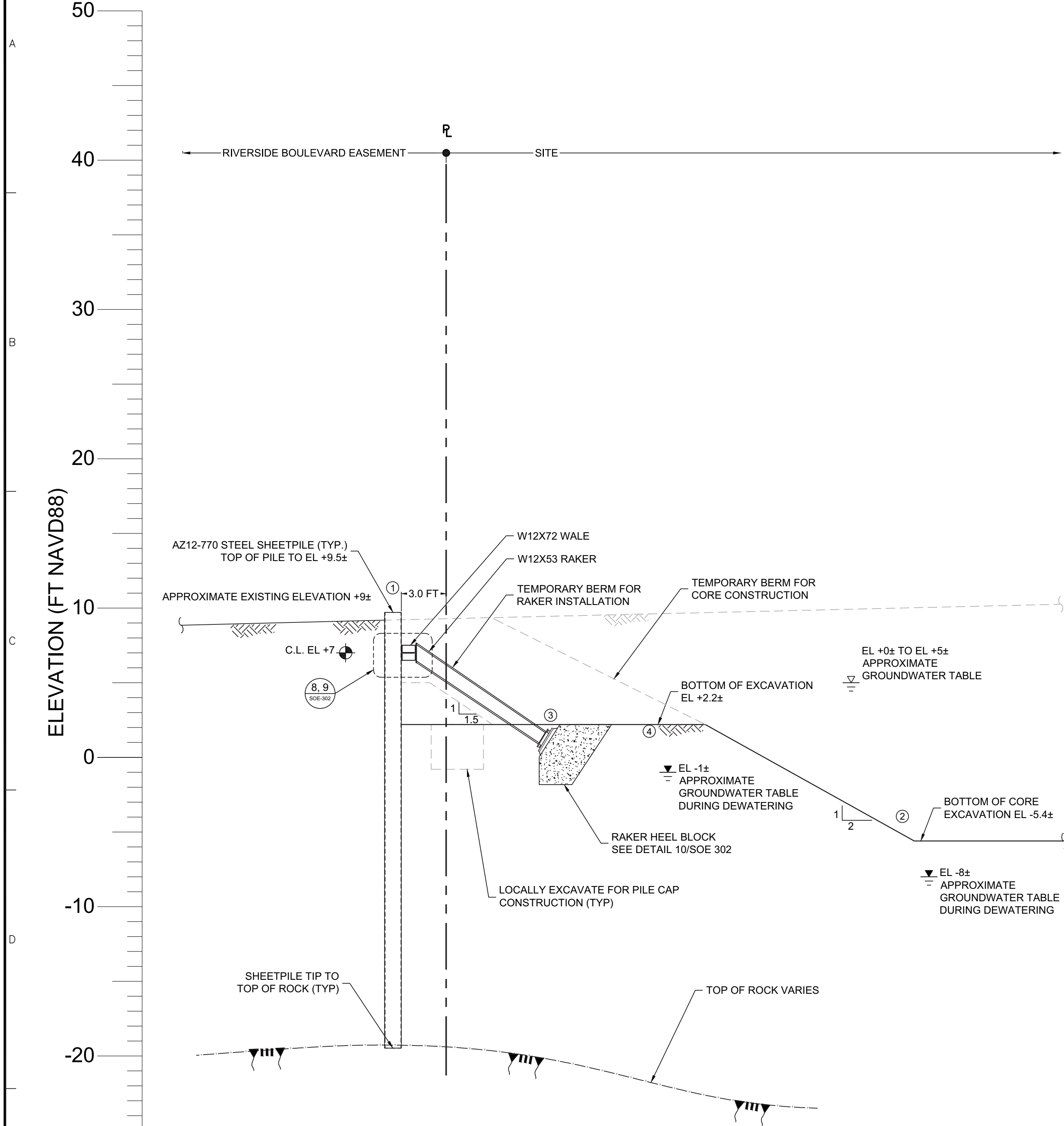
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REVISIONS		
SIGNATURE	09/23/2015	
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Project		
RIVERSIDE CENTER BUILDING 1 400 WEST 61ST STREET (BLOCK No. 1171, LOT No. 154, 156)		
NEW YORK NEW YORK		
Drawing Title		
SECTIONS		
Project No.	Drawing No.	
170275401	SOE-202	
Date		
09/23/2015		
Scale		
1" = 5'		
Drawn By	Checked By	
LFP	JMG	
Submission Date	Sheet 4 of 9	
09/23/2015		



Damian Titus
Buildings
APPROVED
Under Directive 2 of 1975
Date: 10/16/2015;
NYC Development Hub



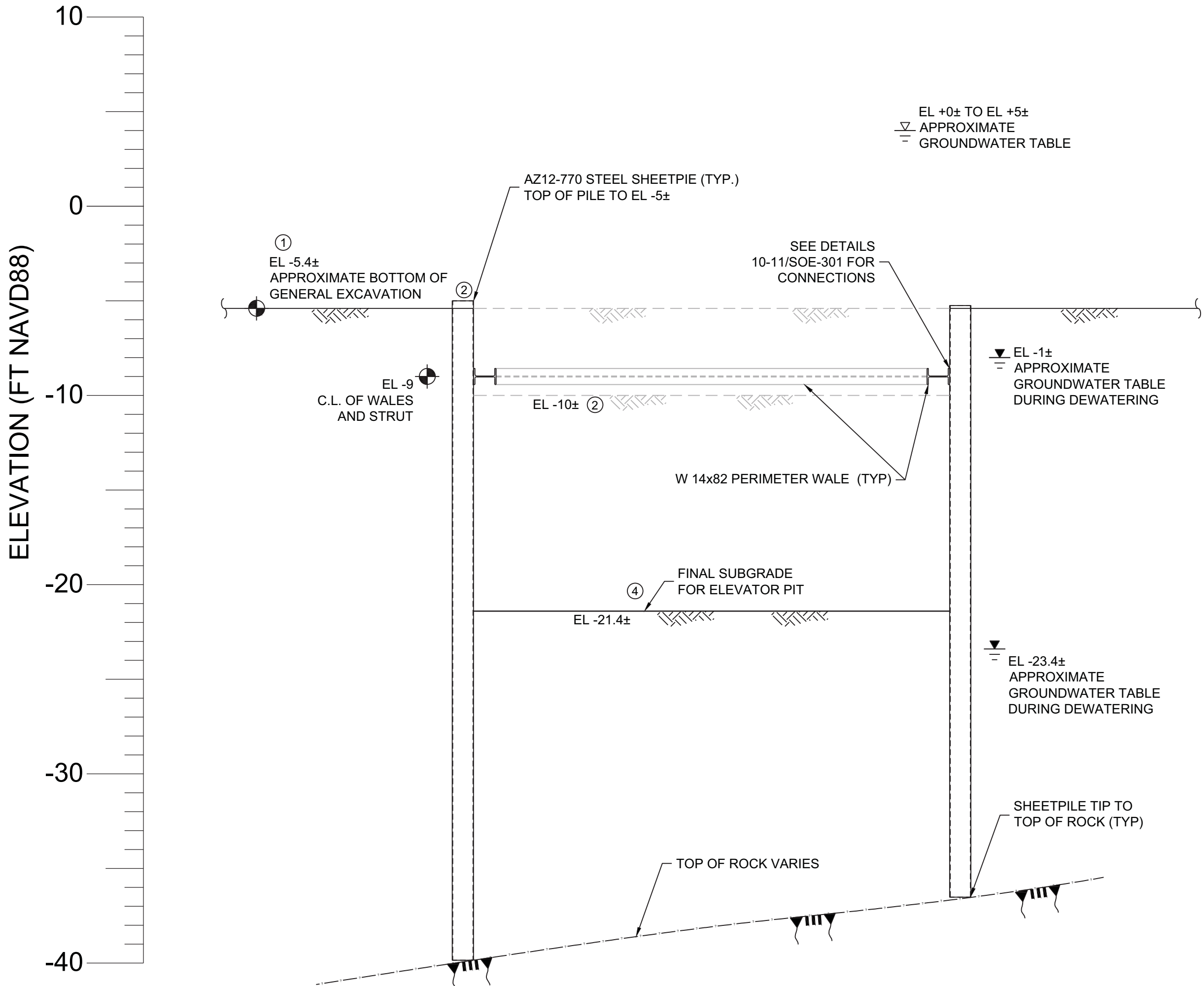
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SIGNATURE	09/23/2015	
PROFESSIONAL ENGINEER NY Lic. No. 0802201		
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Project		
RIVERSIDE CENTER BUILDING 1 400 WEST 61ST STREET (BLOCK No. 1171, LOT No. 154, 156)		
NEW YORK NEW YORK		
Drawing Title		
SECTIONS		
Project No.	Drawing No.	
170275401	SOE-203	
Date		
09/23/2015		
Scale		
1" = 5'		
Drawn By	Checked By	
LFP	JMG	
Submission Date	Sheet 5 of 9	
09/23/2015		



SEQUENCING NOTES:

1. DRIVE SHEETPILES AT LOCATIONS AND DEPTHS SHOWN ON PLAN.
2. BERM AS SHOWN TO CONSTRUCT CORE UP TO CELLAR LEVEL. BACKFILL AS NEEDED FOR CELLAR SLAB CONSTRUCTION.
3. BERM AS SHOWN, CONSTRUCT HEEL BLOCK AND INSTALL WALE AND RAKERS.
4. EXCAVATE TO FINAL CELLAR SUBGRADE ALONG PERIMETER. TRENCH AND BERM LOCALLY FOR PILE CAP CONSTRUCTION. MAINTAIN GROUNDWATER LEVEL 2 FT BELOW EXCAVATION AT ALL TIMES.

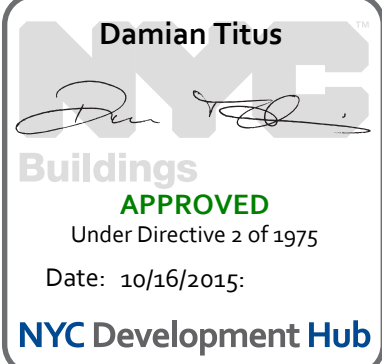
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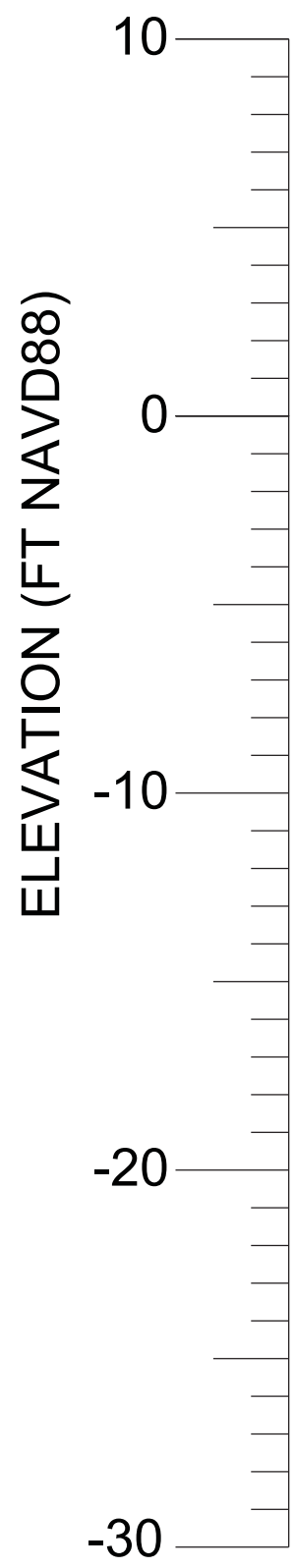
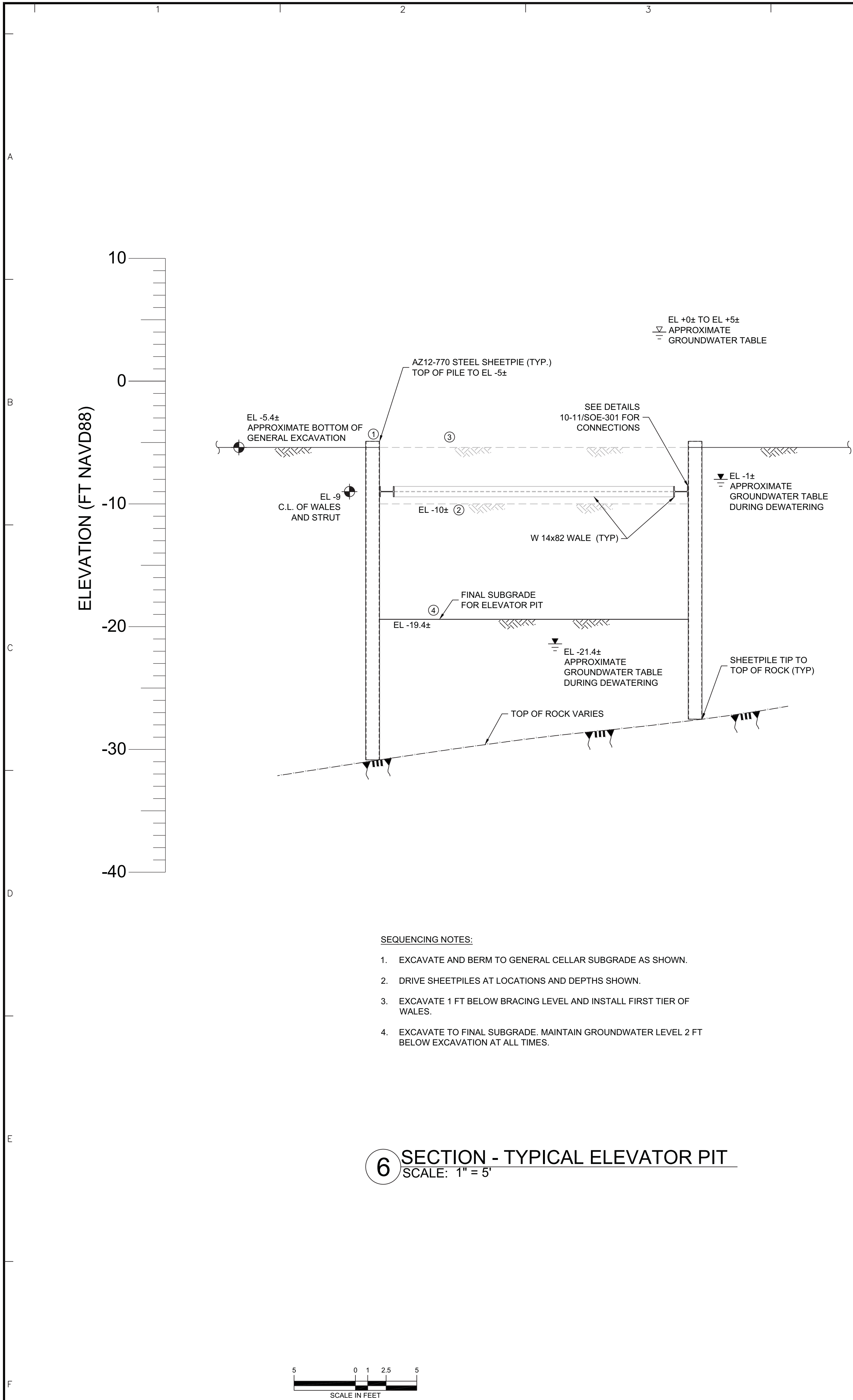
SEQUENCING NOTES:

1. EXCAVATE AND BERM TO GENERAL CELLAR SUBGRADE AS SHOWN.
2. DRIVE SHEETPILES AT LOCATIONS AND DEPTHS SHOWN.
3. EXCAVATE 1 FT BELOW BRACING LEVEL AND INSTALL FIRST TIER OF WALES.
4. EXCAVATE TO FINAL SUBGRADE. MAINTAIN GROUNDWATER LEVEL 2 FT BELOW EXCAVATION AT ALL TIMES.

5 SECTION - WEST SERVICE ELEVATOR PIT
SCALE: 1" = 5'



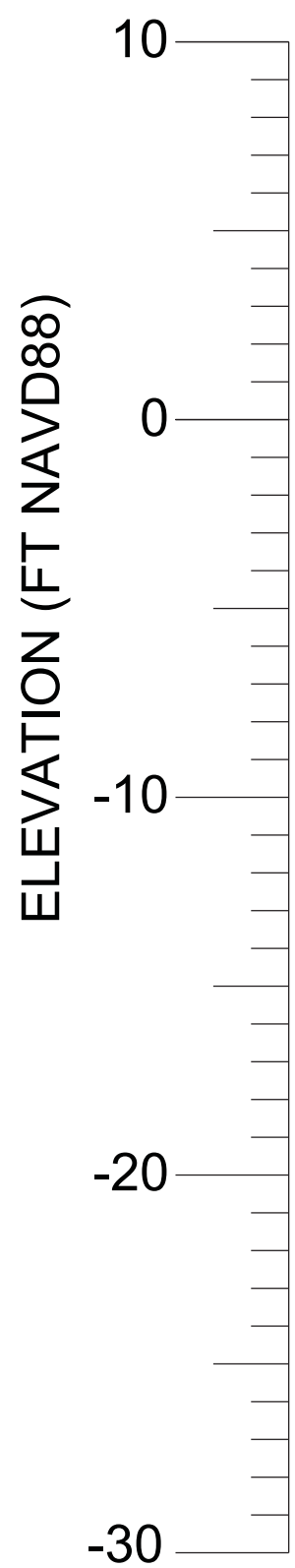
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Date	09/23/2015	Scale	1" = 5'
Drawn By	LFP	Checked By	JMG
Submission Date	09/23/2015	Sheet	6 of 9



SEQUENCING NOTES:

- DRIVE SHEETPILES AT LOCATIONS AND DEPTHS SHOWN.
- EXCAVATE TO FINAL SUBGRADE. MAINTAIN GROUNDWATER LEVEL 2 FT BELOW EXCAVATION AT ALL TIMES, AND SLOPE AS INDICATED.

7 SECTION
SCALE: 1" = 5'



SEQUENCING NOTES:

- DRIVE SHEETPILES AT LOCATIONS AND DEPTHS SHOWN.
- EXCAVATE TO FINAL SUBGRADE. MAINTAIN GROUNDWATER LEVEL 2 FT BELOW EXCAVATION AT ALL TIMES, AND SLOPE AS INDICATED.

8 SECTION
SCALE: 1" = 5'

Date	Description	No.
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REVISIONS

SIGNATURE	09/23/2015
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ABU DHABI ATHENS DOHA DUBAI ISTANBUL
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan International LLC
Collectively known as Langan

Project

**RIVERSIDE CENTER
BUILDING 1**

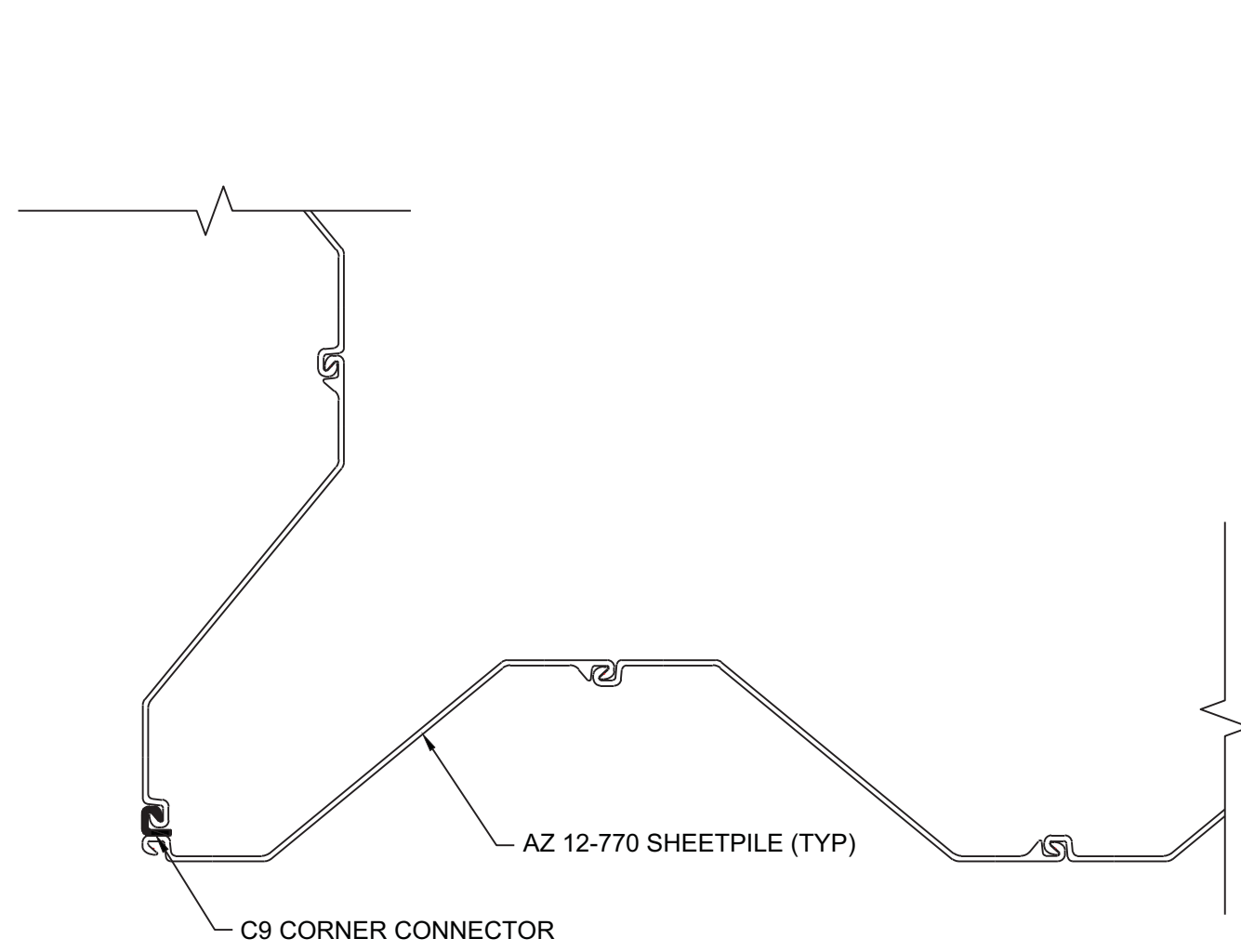
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(BLOCK No. 1171, LOT No. 154, 156)

NEW YORK NEW YORK

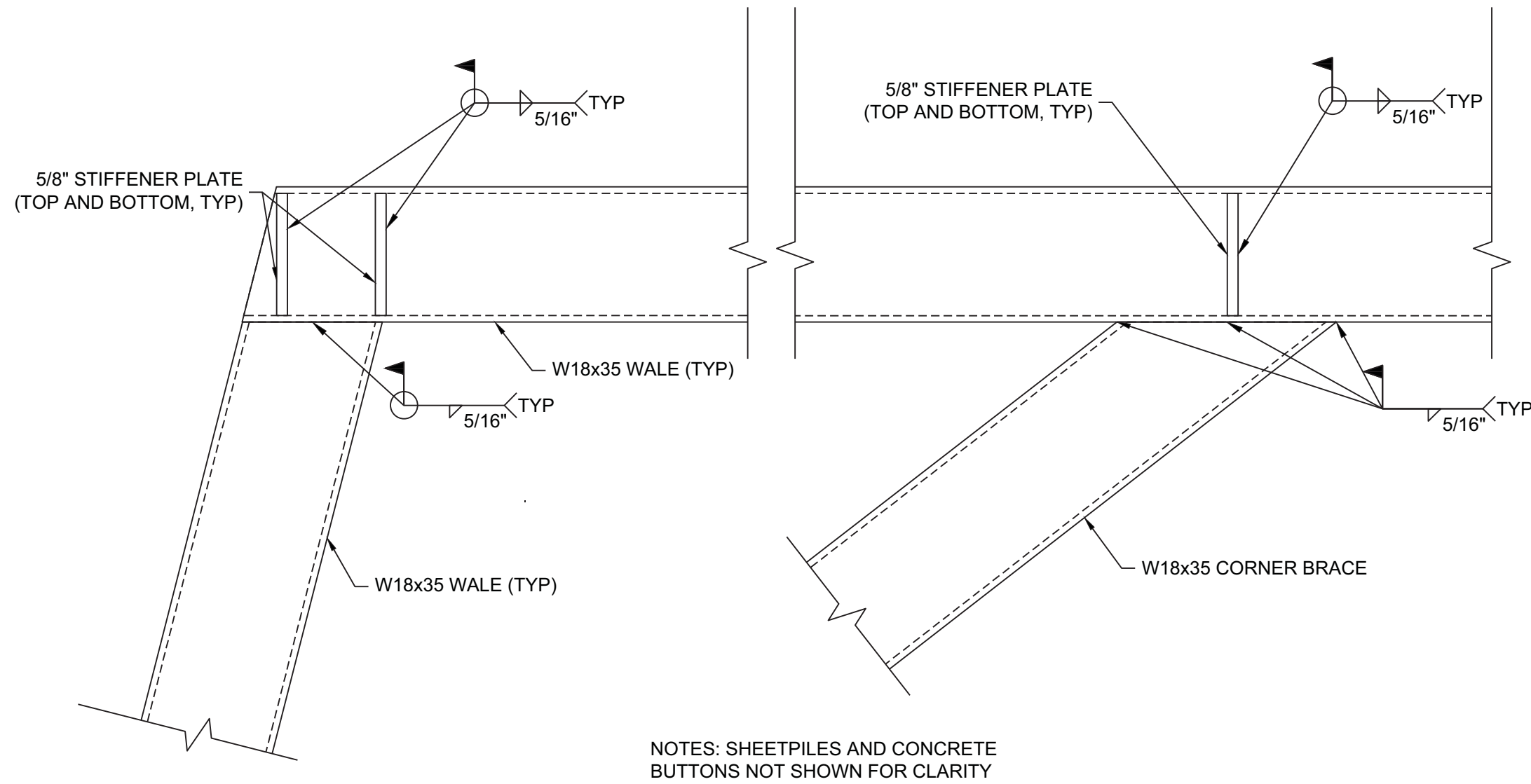
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SECTIONS

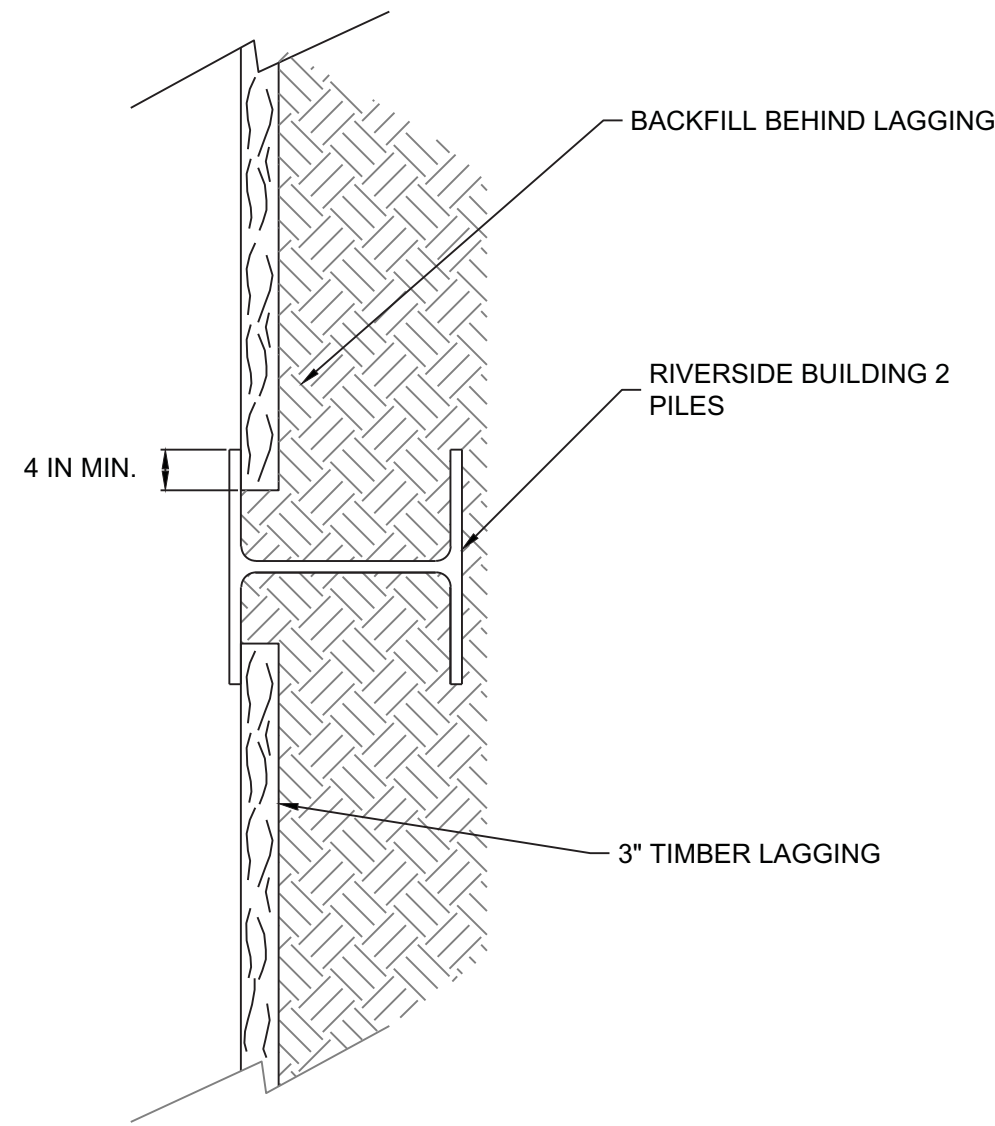
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Date 09/23/2015		
Scale 1" = 5'		
Drawn By LFP	Checked By JMG	
Submission Date 09/23/2015		
		Sheet 7 of 9



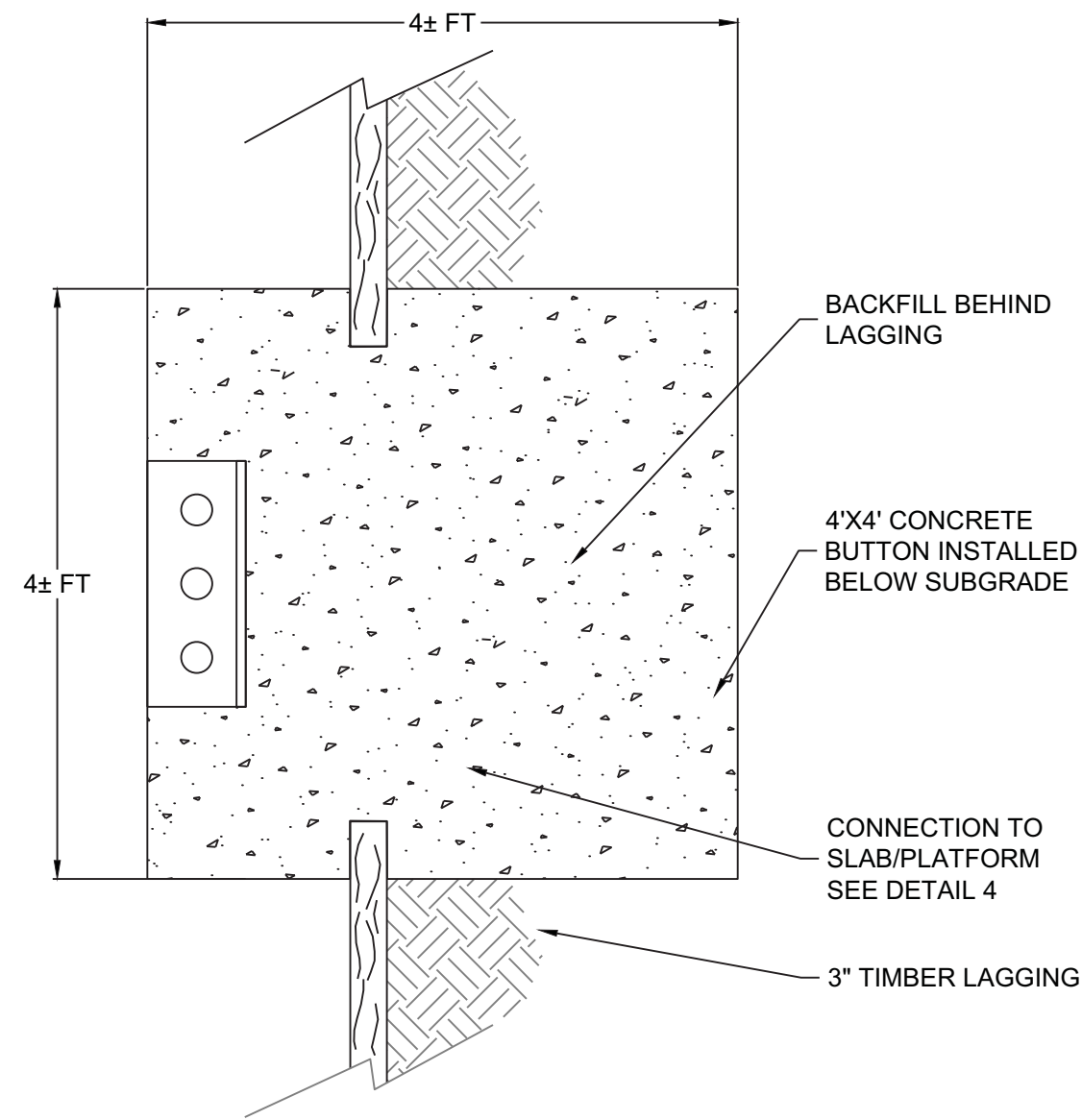
1 TYPICAL SHEETPILE CORNER CONNECTION
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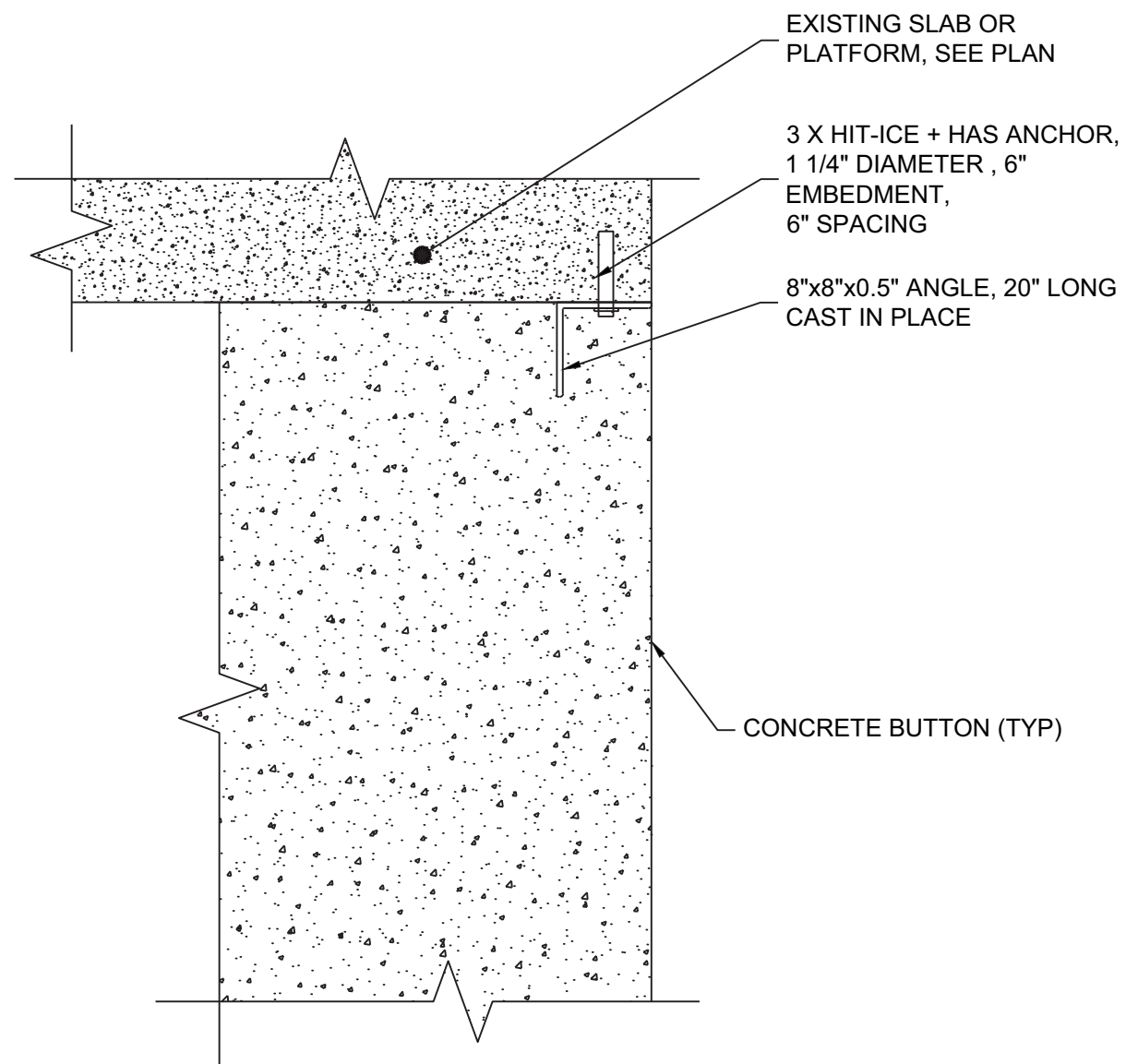
2 NORTHWEST CORNER DETAIL
SCALE: N.T.S.



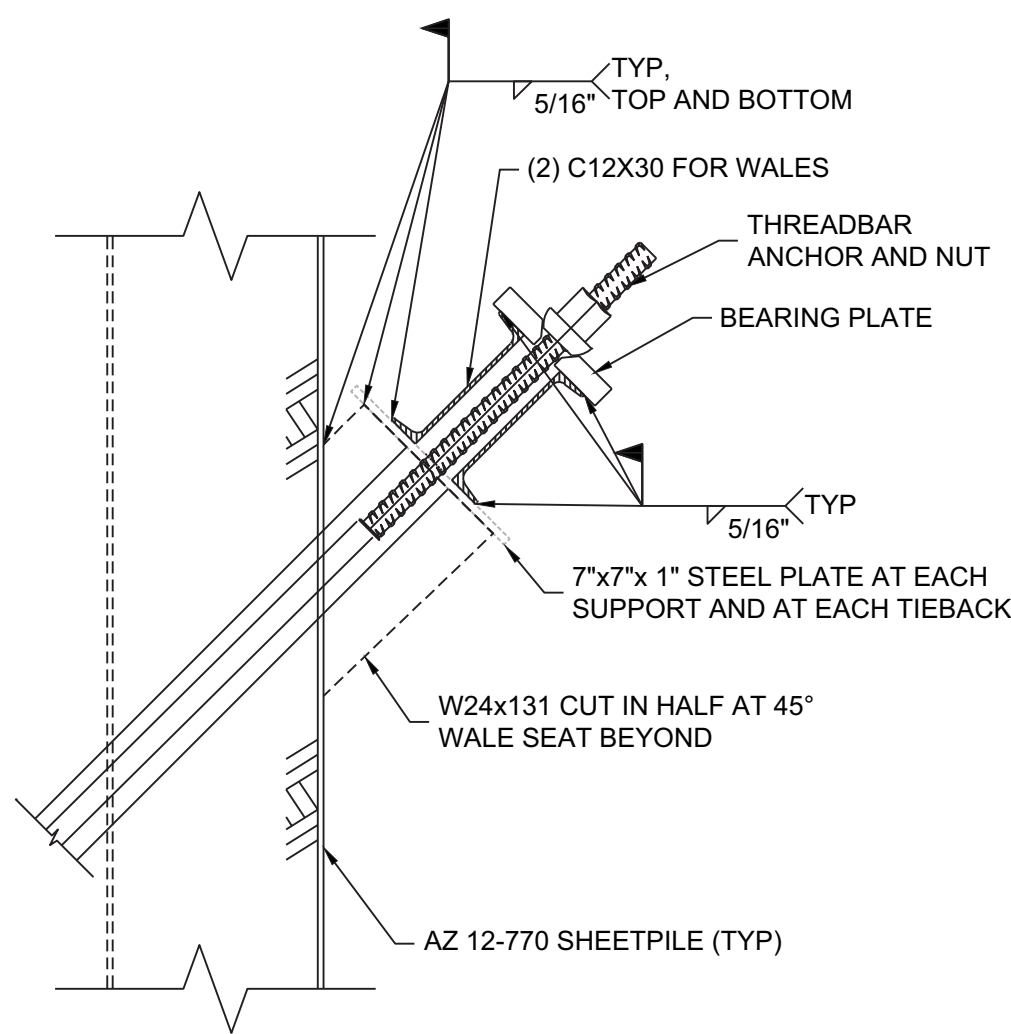
3 LAGGING BEHIND ADJACENT PILE FOUNDATION
SCALE: N.T.S.



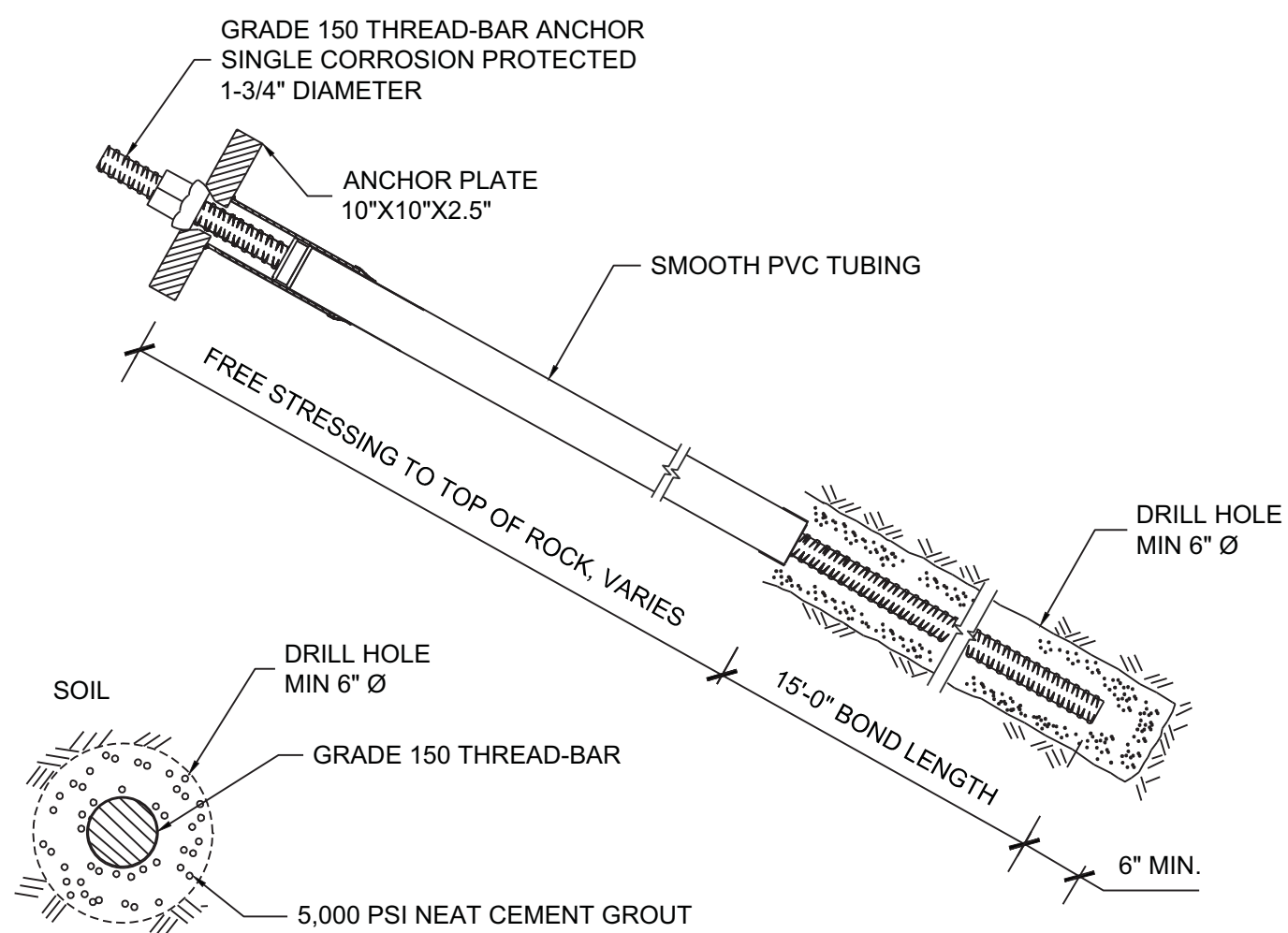
4 TYPICAL CONCRETE BUTTON
SCALE: N.T.S.



5 CONCRETE BUTTON SUPPORT
SCALE: N.T.S.



6 SHEETPILE TIEBACK SUPPORT
SCALE: N.T.S.



DESIGN LOAD	LOCK-OFF	WALE	ANGLE
90 KIP	65 KIP	(2) C12x30	45°

7 TIEBACK DETAIL
SCALE: N.T.S.

Date	Description	No.
------	-------------	-----

REVISIONS

SIGNATURE	09/23/2015	
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ABU DHABI ATHENS DOHA DUBAI ISTANBUL
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
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Collectively known as Langan

Project

**RIVERSIDE CENTER
BUILDING 1**
400 WEST 61ST STREET
(BLOCK No. 1171, LOT No. 154, 156)

NEW YORK NEW YORK

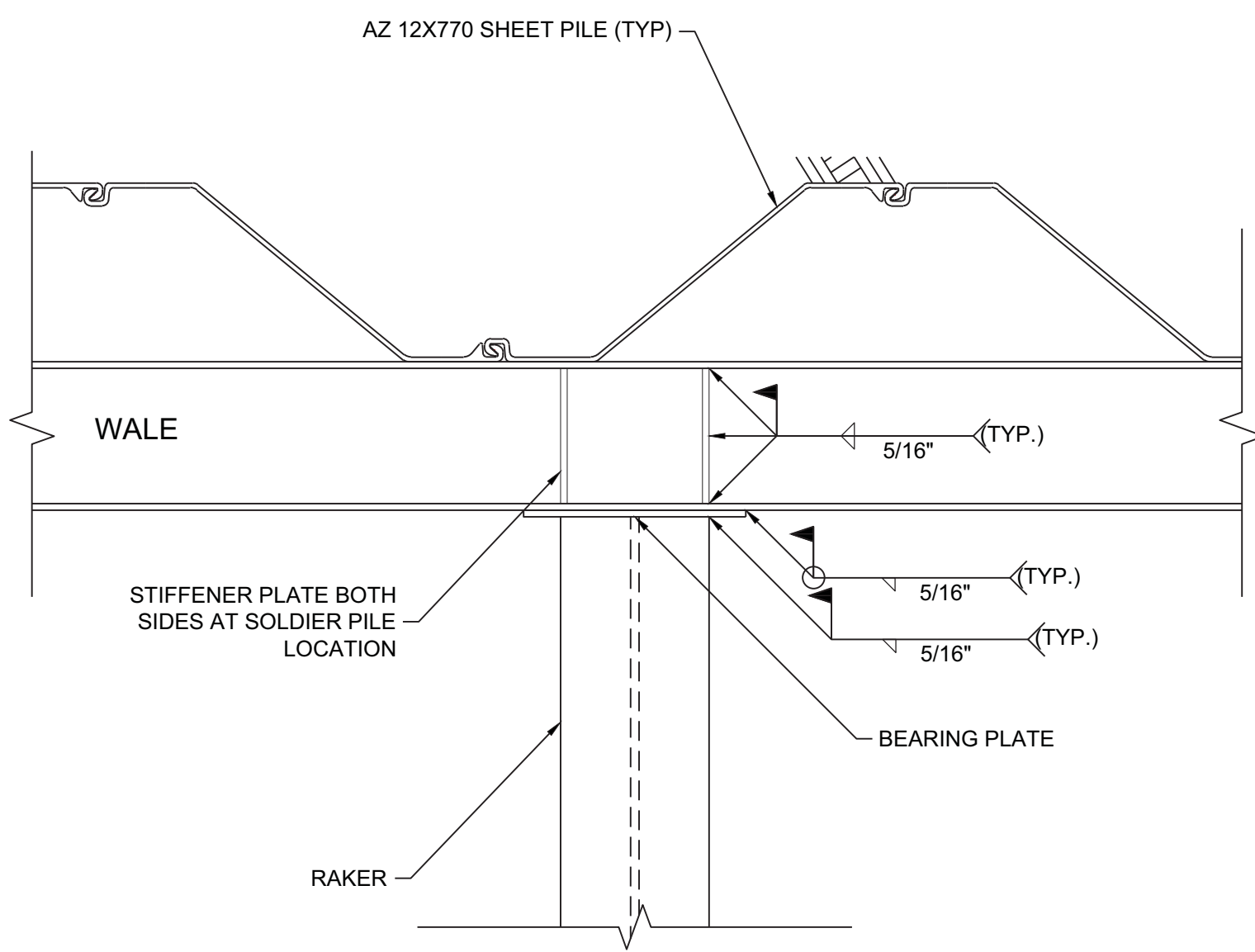
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DETAILS

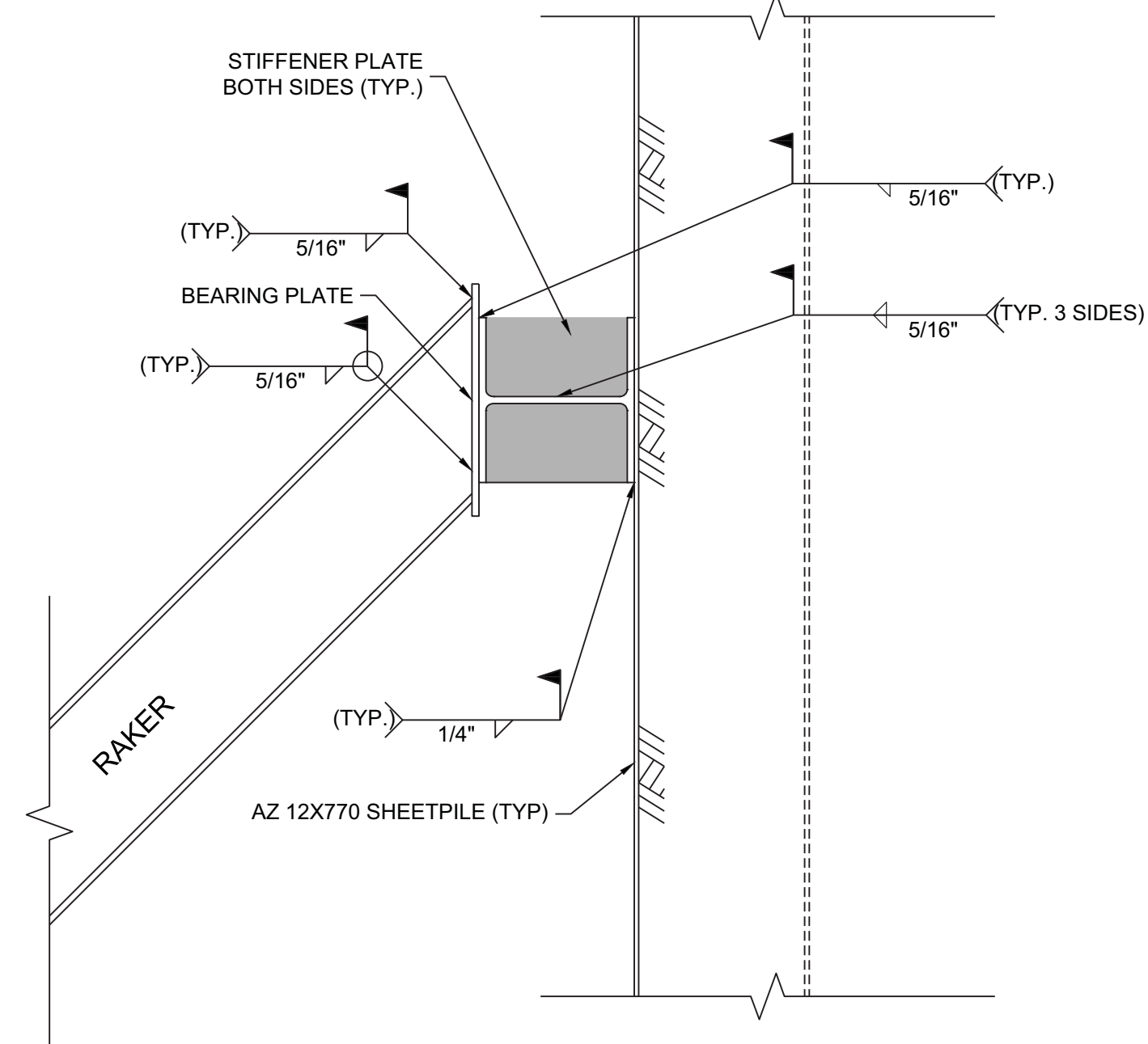
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Date 09/23/2015	
Scale AS SHOWN	
Drawn By LFP	Checked By JMG
Submission Date 09/23/2015	Sheet 8 of 9

Damian Titus

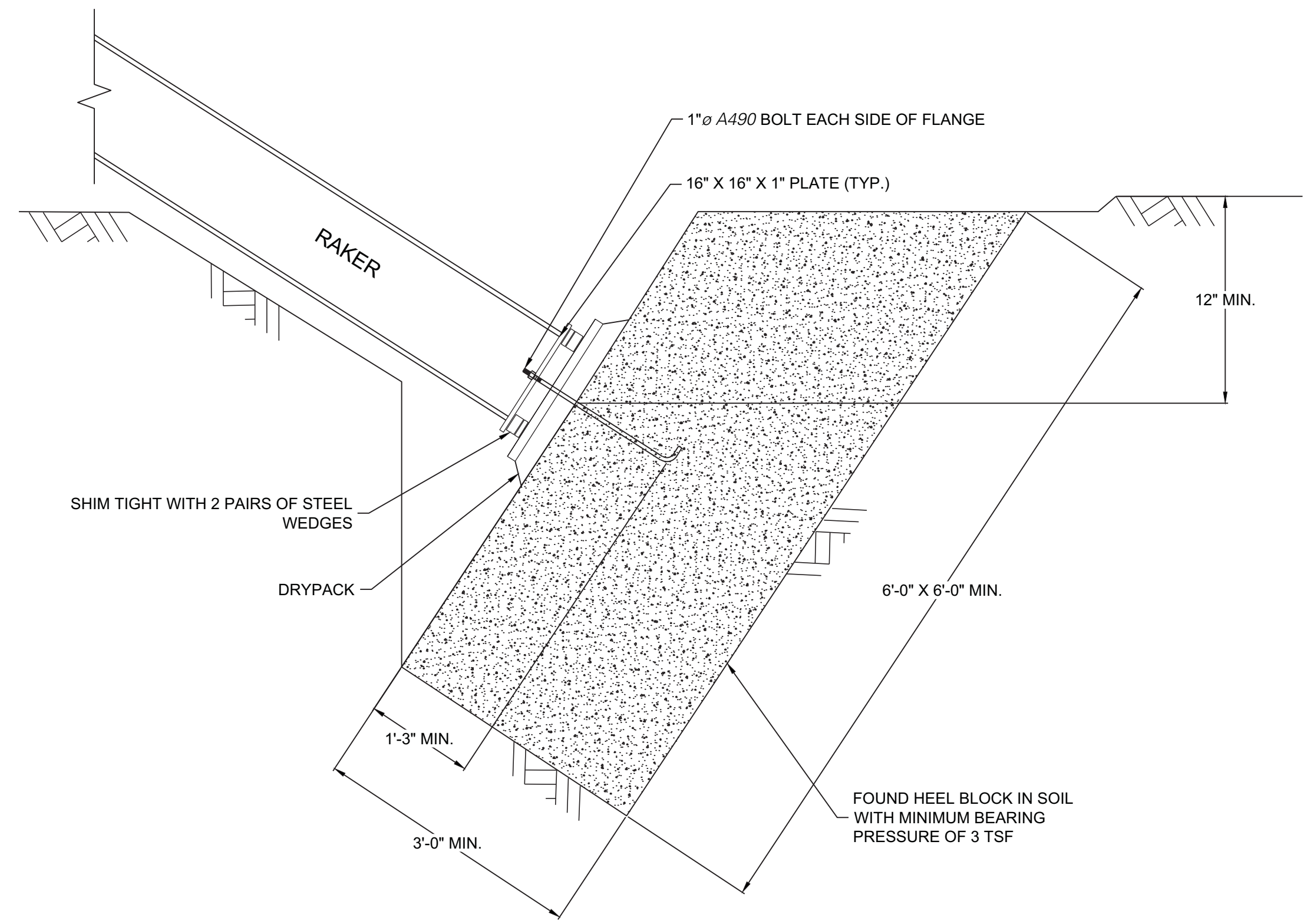
APPROVED
Under Directive 2 of 1975
Date: 10/16/2015
NYC Development Hub



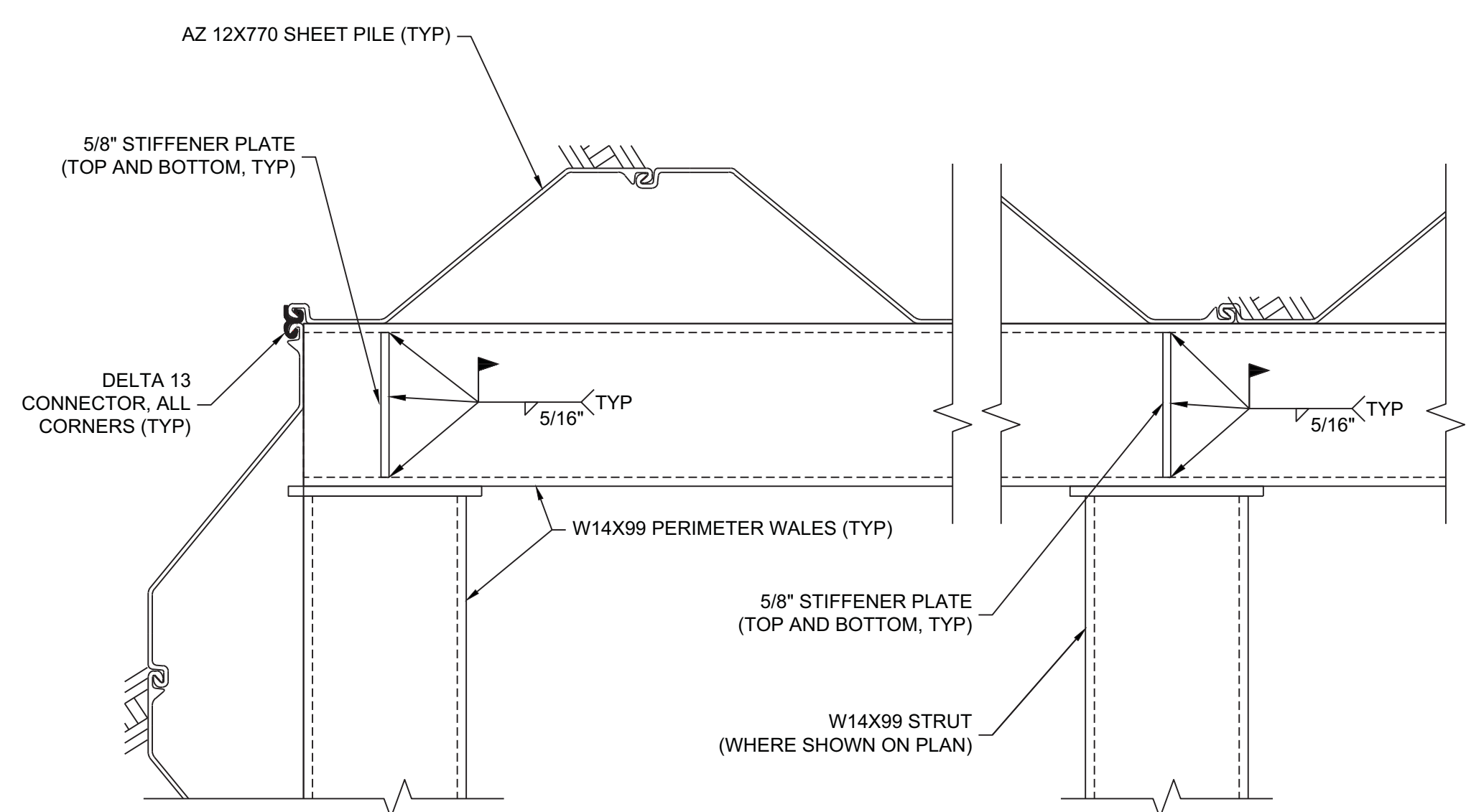
8 RAKER TO WALE CONNECTION (PLAN)
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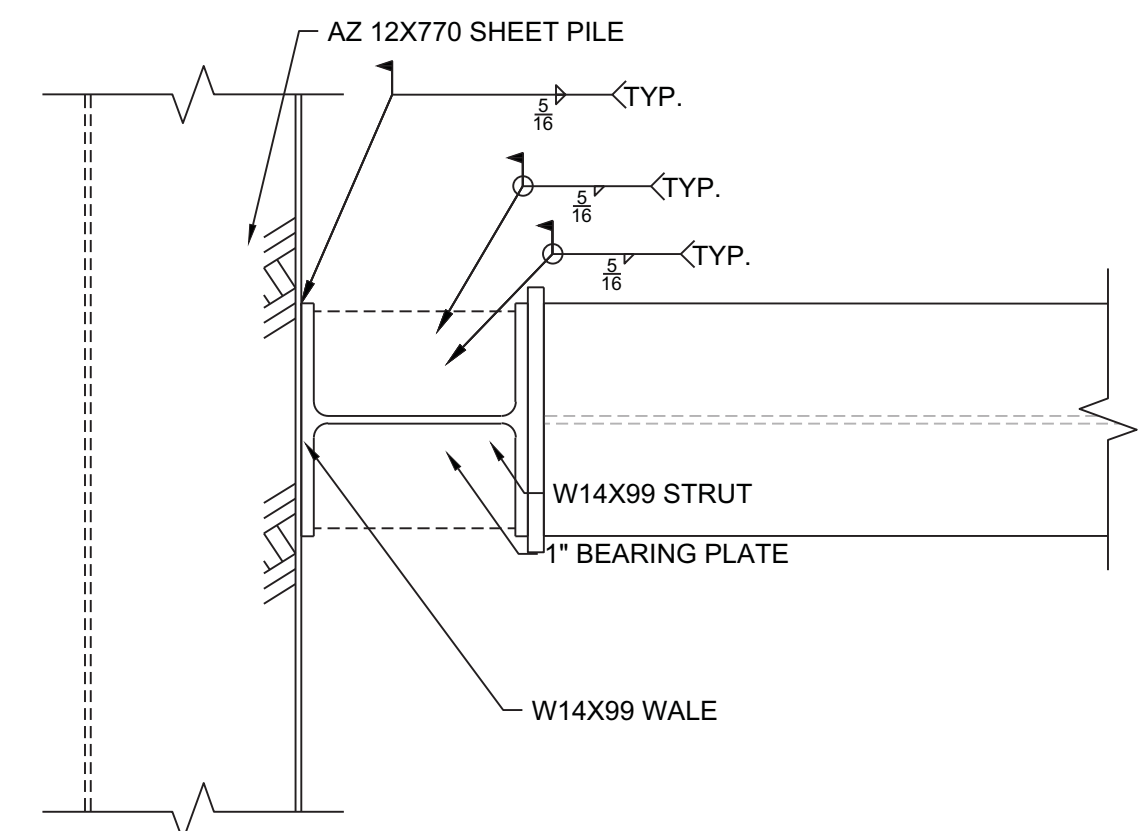
9 RAKER TO WALE CONNECTION (SECTION)
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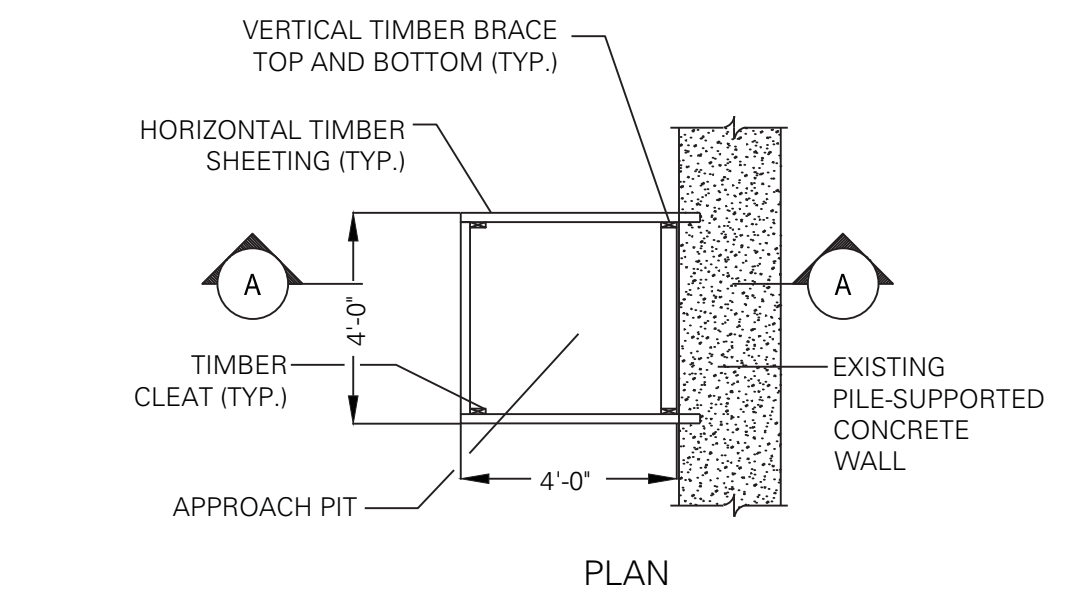
10 RAKER HEEL BLOCK DETAIL
SCALE: N.T.S.



11 PIT EXCAVATION HORIZONTAL BRACING
SCALE: N.T.S.

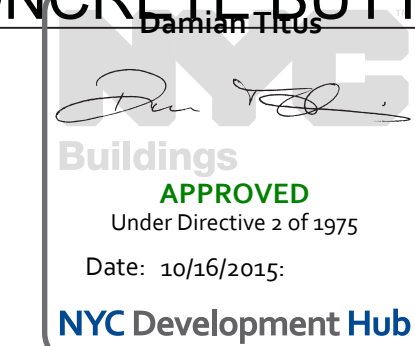


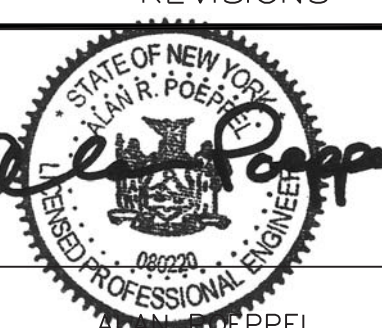
12 SHEETPILE STRUT CONNECTION
SCALE: N.T.S.



13 SHEETED PIT CONSTRUCTION FOR CONCRETE BUTT
SCALE: N.T.S.

NOTE: USE 3-INCH TIMBER FOR SHEETING.



Date	Description	No.
REVISIONS		
		
SIGNATURE	09/23/2015	
ADAM R. POEPEL PROFESSIONAL ENGINEER NY Lic. No. 0802201		
<div>LANGAN 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com NEW JERSEY NEW YORK CONNECTICUT PENNSYLVANIA OHIO VIRGINIA WASHINGTON DC FLORIDA NORTH DAKOTA CALIFORNIA ABU DHABI ATHENS DOHA DUBAI ISTANBUL Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. Langan Engineering and Environmental Services, Inc. Langan CT, Inc. Langan International LLC Collectively known as Langan</div>		
Project		
<div>RIVERSIDE CENTER BUILDING 1 400 WEST 61ST STREET (BLOCK No. 1171, LOT No. 154, 156)</div>		
NEW YORK		NEW YORK
Drawing Title		
<div>DETAILS</div>		
Project No.		Drawing No.
170275401		SOE-302
Date		
09/23/2015		
Scale		
AS SHOWN		
Drawn By	Checked By	
LFP	JMG	
Submission Date		
09/23/2015		Sheet 9 of 9