



# Hudson Yards PLATFORM

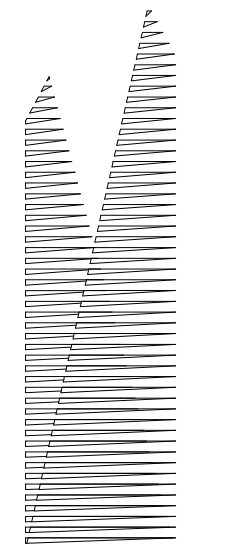
NYC DOB SUBMISSION  
UPDATE  
MARCH 17, 2014

## Discipline Index

ZONING  
LIFE SAFETY  
ARCHITECTURAL  
STRUCTURAL

### HUDSON YARDS - PLATFORM

Address:  
530 WEST 33RD STREET  
NEW YORK, NY



*Client*  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
TEL: 212.801.1000 FAX: 212.801.1048

*Oxford Properties Group*  
320 Park Avenue, 17th Floor  
New York, NY 10022  
TEL: 212.986.7514 FAX: 212.986.7510

*Construction Manager*  
Tishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
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*Architect*  
Kohn Pedersen Fox Associates  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
TEL: 212.977.6500 FAX: 212.956.2526

*Structural Engineer*  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
TEL: 917.661.7800 FAX: 917.661.7801

*Mechanical, Electrical, Plumbing, Fire Protection*  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
TEL: 212.266.8300 FAX: 212.571.6825

*LIRR Ventilation*  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
212.896.3000

*LIRR Substation*  
ARCUM  
605 Third Avenue  
New York, NY 10158  
TEL: 212.973.9200 FAX: 212.682.6172

11	DOB SUBMISSION UPDATE	3/17/2014
10	DOB SUBMISSION UPDATE	02/12/2014
9	DOB SUBMISSION	10/18/2013
8	L.I.R.R. - 10% M&E SUBMISSION	11/22/2013
7	L.I.R.R. - 50% M&E SUBMISSION	10/04/2013
6	L.I.R.R. - 90% SUBMISSION	8/09/2013
5	L.I.R.R. - 60% M&E SUBMISSION	7/12/2013
4	NYC DOB Filing	6/17/2013
3	L.I.R.R. - 30% M&E SUBMISSION	6/14/2013
2	L.I.R.R. - 60% SUBMISSION	5/29/2013
1	L.I.R.R. - 30% SUBMISSION	2/15/2013
0	Description	Date

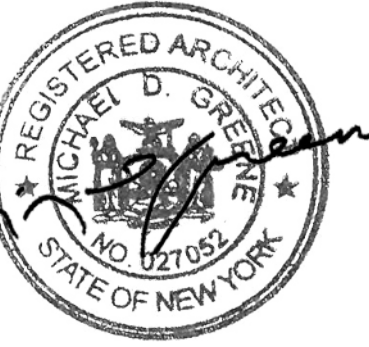
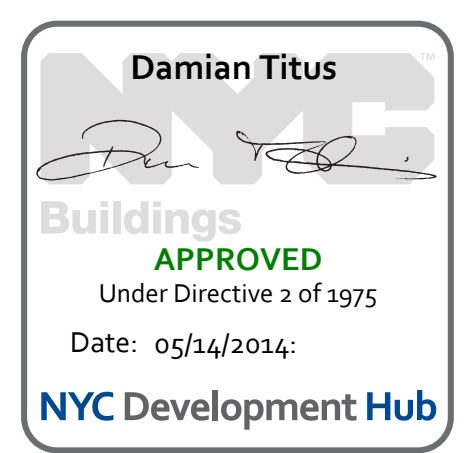
Rev. Plan

Date: 02/15/13  
Project No: 219  
Drawn By: [Signature]  
Sheet Number

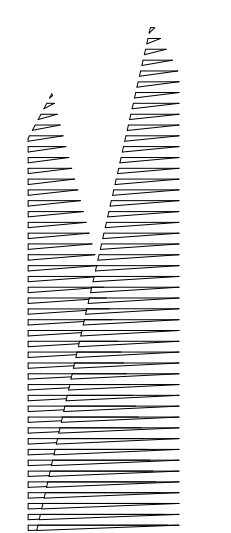
**HYE -PL -T-001.00**

**TITLE SHEET**

Sheet Number  
**T-001.00**







Client Related Companies 60 Columbus Circle New York, NY 10023 TEL: 212.801.1048

Construction Manager Fishman Construction Corporation 100 Park Avenue, 5th Floor New York, NY 10017 TEL: 212.708.3600

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ILRB Ventilation One Arup & Partners P.C. 77 Water Street New York, NY 10005 TEL: 212.896.3000

ILRB Substation AECOM 605 Third Avenue New York, NY 10158 TEL: 212.973.9200 FAX: 212.682.6172

9. DOB SUBMISSION UPDATE 3/17/2014
8. I.L.R.R. - Pre-Final 100% 11/22/2013
7. I.L.R.R. - 90% MOE SUBMISSION 6/14/2013
6. I.L.R.R. - 60% MOE SUPPLEMENT 8/02/2013
5. I.L.R.R. - 60% MOE SUBMISSION 7/12/2013
4. I.L.R.R. - 30% MOE SUBMISSION 6/14/2013
3. I.L.R.R. - 60% SUBMISSION 5/29/2013
2. I.L.R.R. - 30% SUBMISSION 2/15/2013
1. I.L.R.R. - 30% SUBMISSION 1/15/2013

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3. I.L.R.R. - 60% SUBMISSION 5/29/2013

2. I.L.R.R. - 30% SUBMISSION 2/15/2013

1. I.L.R.R. - 30% SUBMISSION 1/15/2013



Damian Titus
Buildings APPROVED Under Directive 3 of 1975 Date: 05/14/2014 NYC Development Hub

HUDSON YARDS PLATFORM DRAWING LIST

Table listing drawing sheets for Volume 1, including sheet numbers, titles, scales, and responsibilities. Includes sections for GENERAL SERIES, USE LAYER SERIES, ARCHITECTURAL GENERAL SERIES, ARCHITECTURAL SECTION SERIES, ARCHITECTURAL DETAILS, ARCHITECTURAL ELEVATIONS & 3D VIEWS, STRUCTURAL GENERAL SERIES, STRUCTURAL PLAN SERIES, STRUCTURAL FOUNDATION DETAILS & SCHEDULES, EAST PLATFORM - FOUNDATION DETAILS & SCHEDULES, and EAST PLATFORM - SECTION, ELEVATION, AND DETAILS.

HUDSON YARDS PLATFORM DRAWING LIST

Table listing drawing sheets for Volume 2, including sheet numbers, titles, scales, and responsibilities. Includes sections for WEST SIDE SECTIONS & DETAILS, BRIDGE SECTIONS AND DETAILS, EAST SIDE SECTIONS & DETAILS, SECTIONS AND DETAILS ALONG GRIDLINE N, TYPICAL DETAILS, MOE / C/F ACQUISITION DRAWINGS, BRIDGE FOUNDATION DETAILS & SCHEDULES, EAST PLATFORM - FOUNDATION DETAILS & SCHEDULES, and EAST PLATFORM - SECTION, ELEVATION, AND DETAILS.



ZR-11	Block	702
	Lot	110
	Zoning District	C6-4NY (Special Hudson Yards District)
	Zoning Map	Large-Scale Plan Subdistrict A
	Zoning Lot Area	Eastern Railyards Subarea A1
		84,844
		570,000 sf
ZR-13	USE REGULATIONS	Uses Permitted
ZR-14		Use Group 1-12
ZR-15		N/A not an alteration
ZR-32		Uses Provided
ZR-32-60		12C
ZR-32-60	SIGN REGS	No signage under this application
ZR-33-03 / 93-62	STREET TREES	Frontage along 33rd Street: 800' Frontage along Tenth Ave.: 712.5' Frontage along 30th Street: 800' Frontage along Eleventh Ave.: 712.5' Total Frontage: 3,025' / 25' = 121 Trees
		121 Trees Required
		61 Provided
		Note: Trees not shown at curb cuts, underneath existing highline, above 10' water tunnel infrastructure, or along Eleventh Avenue viaduct due to infeasibility of planting.

ZR-36-70	BICYCLE PARKING	Use Group 12C - None Required	Complies
ZR-93-12		N/A No Residential Proposed under this application	
ZR-93-14	RETAIL AND GLAZING REQUIREMENTS	None required under this application	Complies
ZR-93-17	SIGNAGE	No signage under this application	Complies
ZR-93-18	NON-CONFORMING USES	N/A - No enlargements of uses listed in ZR-93-18 are proposed under this application.	
ZR-93-19	ELECTRICAL SUBSTATION	N/A - no Electrical Substations proposed	
ZR-93-21(B)	Floor Area	Max Commercial FAR = 9.0 Max Commercial Floor Area permitted: 570,000 sf x 9 = 5,130,000 Floor Area proposed under this application: 98,888 sf Floor Area Filed under separate application #1213324290: 1,414,964 sf Floor Area Filed under separate application #121331193: 17,816 sf	Complies
ZR-93-31		N/A to subarea A1	
ZR-93-32		N/A to subarea A1	
ZR-93-33		N/A to subarea A1	
ZR-93-34		N/A No redistribution from subarea A1 proposed under this application	

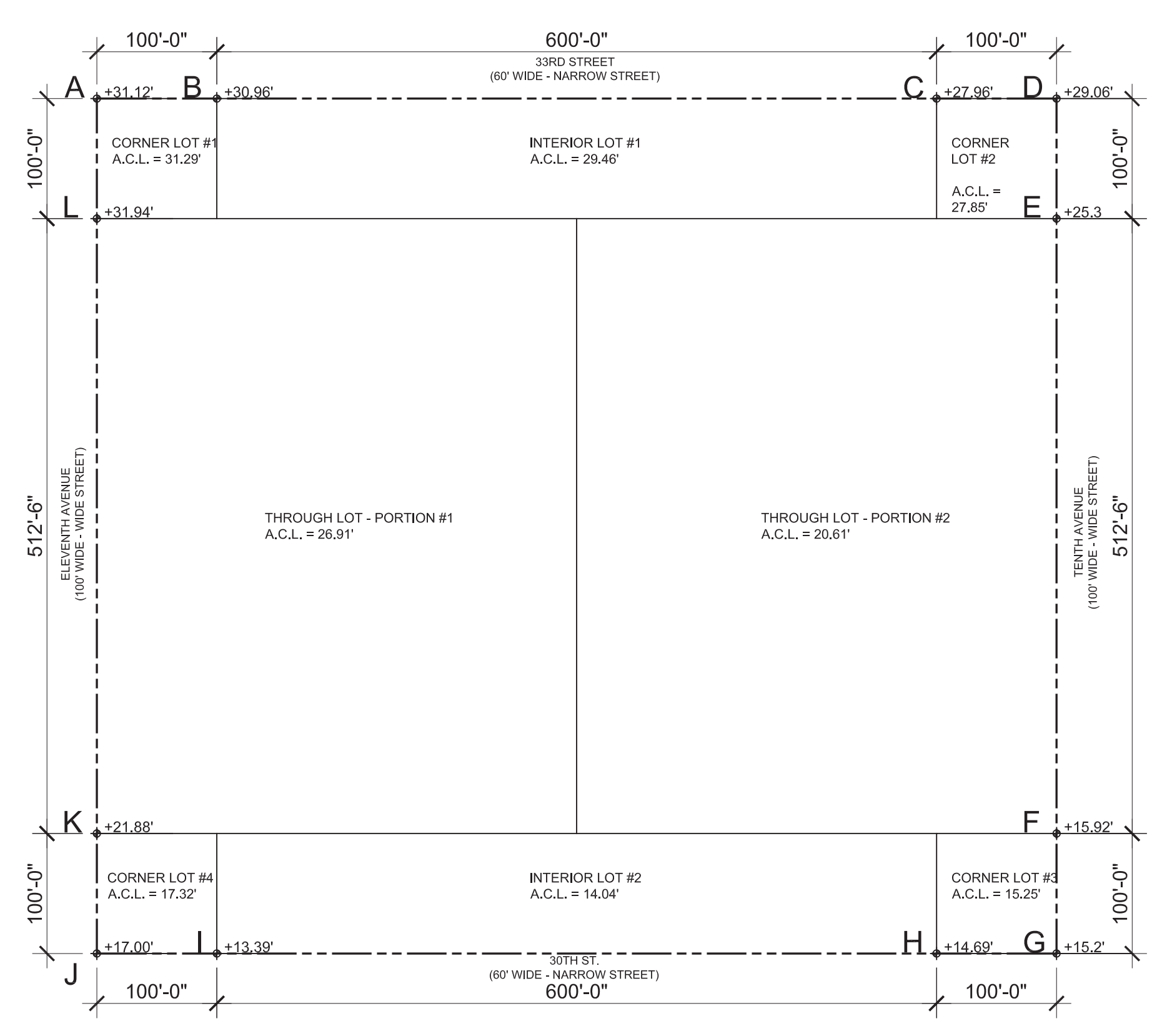
ZR-93-40	HEIGHT AND SETBACK REGULATIONS	Setback regulations superseded by 93-514 except along Tenth Avenue (WIDE STREET) where a street wall is to be provided to min. 60' above sidewalk level. See sheet Z-030 for Zoning	Complies
ZR-93-514	LOCATION OF BUILDINGS	See Site Plan - Drawing 01/Sheet Z-001.00	Complies
ZR-93-514(a)	BUILDING LOCATION AT SPUR	No proposed building adjacent to Spur	Complies
ZR-93-60	MANDATORY IMPROVEMENTS	See Site Plan - Drawing 1/Sheet Z-001.00	Complies
ZR-93-61 / 93-A4	Sidewalk Widening	See Site Plan - Drawing 1/Sheet Z-001.00	Complies
ZR-93-63	Pedestrian Circulation Space	N/A per 93-63(f)	
ZR-93-64	Major Building Entrances	N/A to subarea A1	
ZR-93-66	Open Area Requirements in Large-Scale Plan Subdistrict A	N/A to subarea A1	
ZR-93-70	PUBLIC ACCESS REQUIREMENTS	See Sheets Z-020.00 - 0228.00	Complies
ZR-93-71		see Phasing Plan - Sheet Z-022.00	Complies
ZR-93-71 (c)		See Sheet Z-023.00	Complies
ZR-93-72		N/A to subarea A1	
ZR-93-73		N/A to subarea A1	
ZR-93-74		N/A to subarea A1	
ZR-93-75		N/A to subarea A1	
ZR-93-76		N/A to subarea A1	
ZR-93-77		N/A to subarea A1	
ZR-93-78		N/A to subarea A1	

ZR-93-80	PARKING	Permitted 350 None proposed under this application	Complies
ZR-93-822		N/A to subarea A1	
ZR-93-83	Use and Location of Parking Facilities	No parking proposed under this application	Complies
ZR-93-831	Authorization for above-grade parking	No parking proposed under this application	
ZR-93-84	Curb Cut Restrictions	N/A - no new curb cuts proposed along Tenth or Eleventh Avenue	
ZR-93-841		N/A to subarea A1	
ZR-93-842		N/A to subarea A1	
ZR-93-85		N/A to subarea A1	
ZR-93-90	Harassment	N/A - no residential proposed under this application	
ZR-93-91	Demolition	N/A - no demolition of "Multiple Dwelling" proposed under this application	

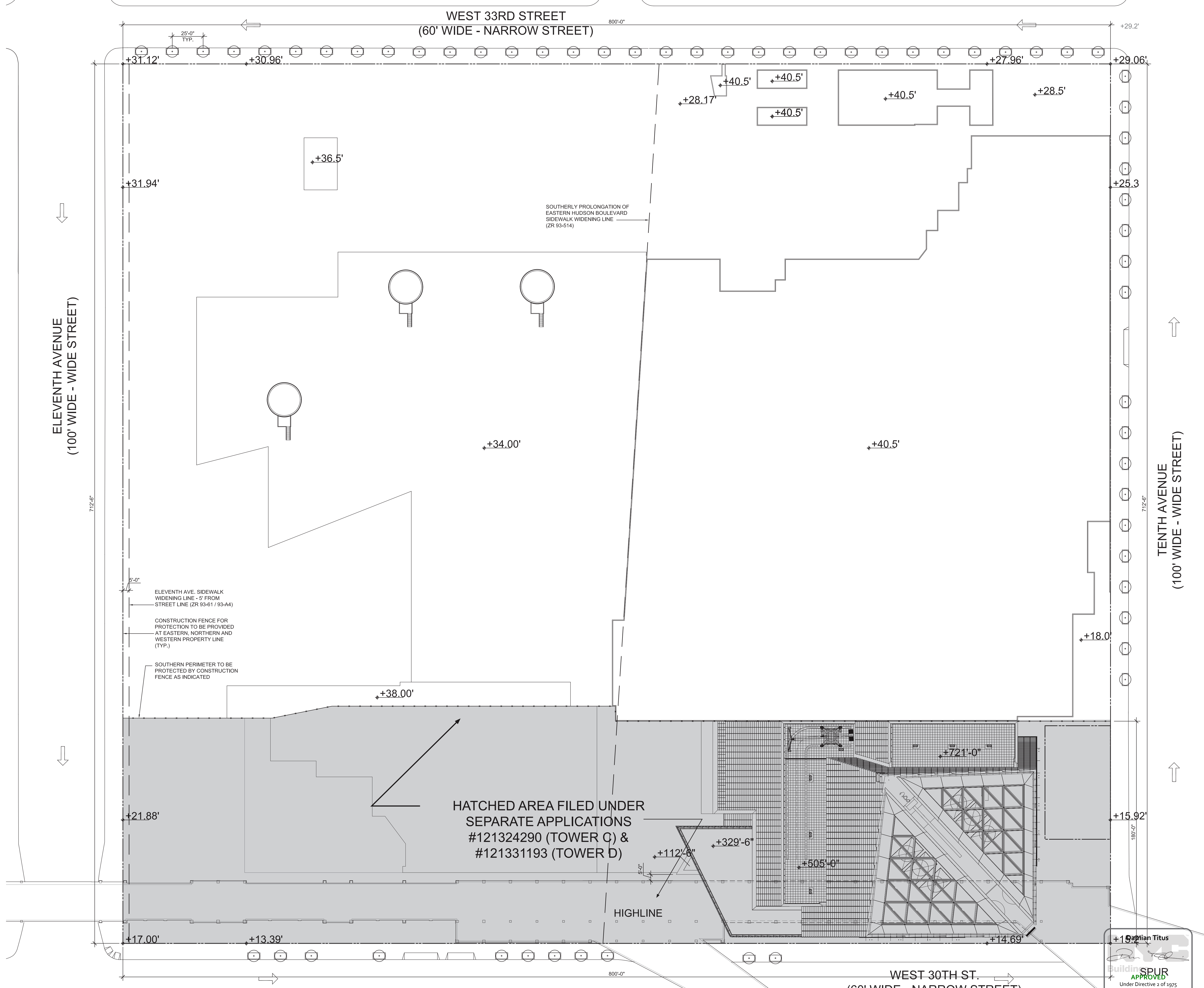
2 ZONING CALCULATIONS

<b>CORNER LOT #1</b>				
$\frac{(A + B)/2 + (A + L)/2}{2}$	$\frac{(31.12' + 30.96')/2 + ((31.12' + 31.94')/2)}{2}$	+		<b>31.29'</b>
<b>INTERIOR LOT #1</b>				
$\frac{B + C}{2}$	$\frac{30.96' + 27.96'}{2}$	+		<b>29.46'</b>
<b>CORNER LOT #2</b>				
$\frac{(C + D)/2 + ((D + E)/2)}{2}$	$\frac{(27.96' + 29.06')/2 + ((29.06' + 25.3')/2)}{2}$	+		<b>27.85'</b>
<b>THROUGH LOT PORTION #2</b>				
$\frac{E + F}{2}$	$\frac{25.3' + 15.92'}{2}$	+		<b>20.61'</b>
<b>CORNER LOT #3</b>				
$\frac{(F + G)/2 + ((G + H)/2)}{2}$	$\frac{(15.92' + 15.2')/2 + ((15.2' + 14.69')/2)}{2}$	+		<b>15.25'</b>
<b>INTERIOR LOT #2</b>				
$\frac{H + I}{2}$	$\frac{14.69' + 13.39'}{2}$	+		<b>14.04'</b>
<b>CORNER LOT #4</b>				
$\frac{(I + J)/2 + ((J + K)/2)}{2}$	$\frac{(13.39' + 17.0')/2 + ((17.0' + 21.88')/2)}{2}$	+		<b>17.32'</b>
<b>THROUGH LOT #1</b>				
$\frac{K + L}{2}$	$\frac{21.88' + 31.94'}{2}$	+		<b>26.91'</b>

4 CURB LEVEL CALCULATION  
SCALE: NTS



3 CURB LEVEL PLAN  
SCALE: 1/128"=1'-0"



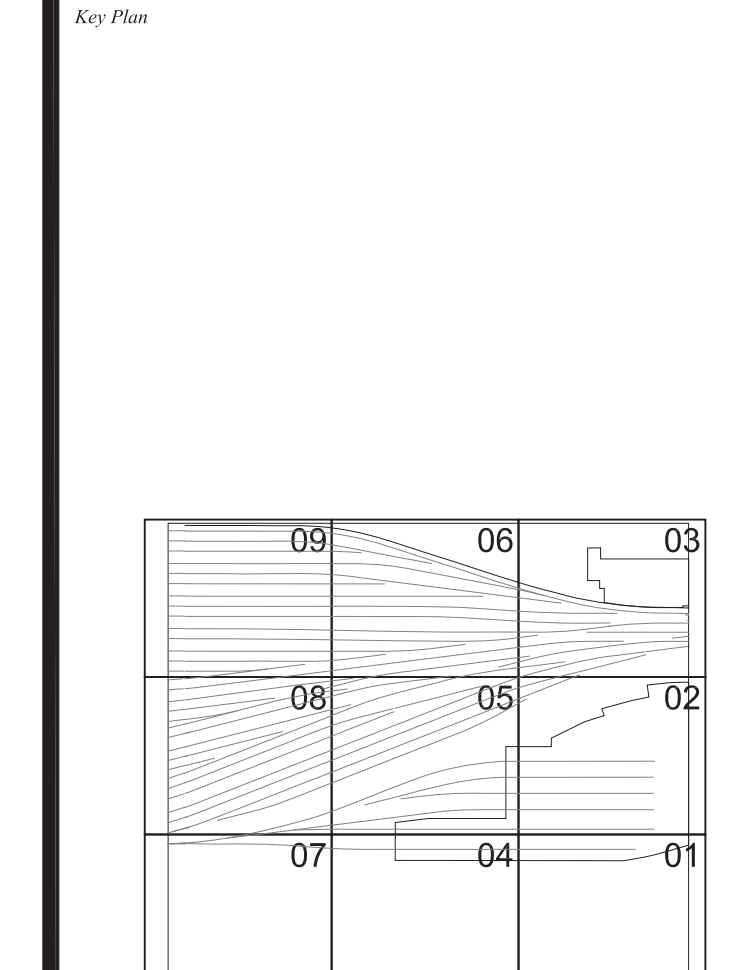
1 SITE PLAN  
SCALE: 1/32"=1'-0"

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3	DOB SUBMISSION UPDATE	02/12/2014
2	D.O.B SUBMISSION	10/18/2013
1	NYC D.O.B. FILING	06/17/2013
0	Issue	04/17/2013



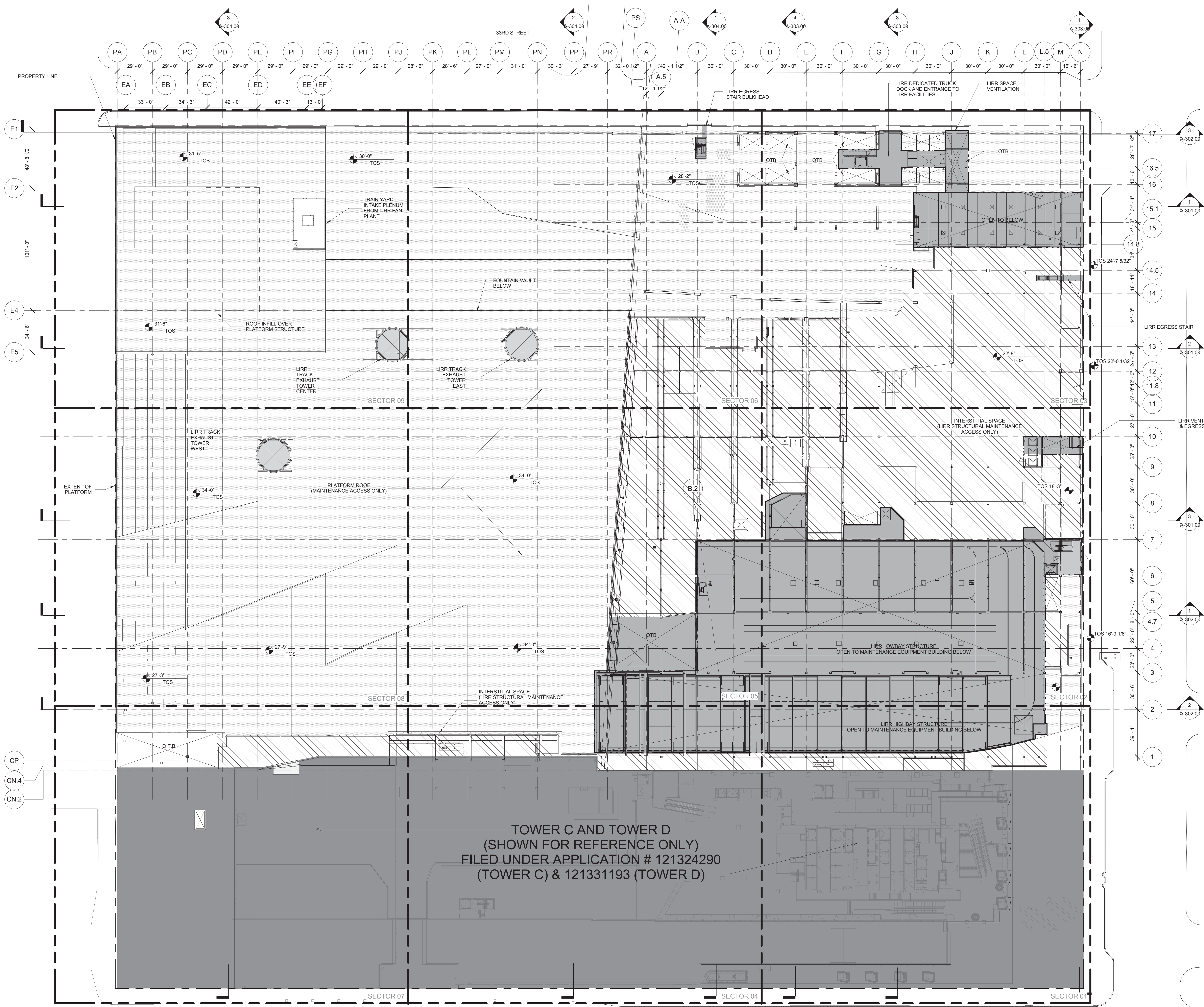
Date: 2/15/2013  
Project No: 2198  
Sheet Number: HYE-PL-Z-001  
Drawing Title: ZONING SITE PLAN ZONING NOTES AVG. CURB HEIGHT

Drawing Number: 8-001 Drawing Number: Z-001.00

REGISTERED ARCHITECT  
KOHN PEDERSEN FOX ASSOCIATES PC  
NEW YORK STATE

Scale: 1/32"=1'-0"





GROSS FA ABOVE CELLAR: 99,898  
 TOTAL DEDUCTIONS: -  
 TOTAL ZONING FLOOR AREA: 99,898

HUDSON YARDS - PLATFORM - 530 WEST 33RD STREET  
 PROPOSED NEW BUILDING

USE	GFA	DEDUCTIONS	ZFA	
GROUND FLOOR	INTERSTITIAL SPACE/ LIRR RAILYARD MAINTENANCE ACCESS ONLY	92,474	0	92,474
CELLAR C	LIRR RAILYARD ACCESS	7,424	0	7,424
	MTA/ LIRR TRAINSHED	280,861	280,861	0
	MTA/ LIRR ANCILLARY FACILITIES	29,688	29,688	0
	INACCESSIBLE SPACE	19,727	19,727	0
<b>TOTALS</b>	<b>MTA/ LIRR USE</b>	<b>515,038</b>	<b>415,140</b>	<b>99,898</b>
<b>TOTAL PROPOSED BUILDING</b>				<b>515,038 415,140 99,898</b>

HUDSON YARDS - TOWER C - 501 WEST 30TH STREET  
 PROPOSED BUILDING - FILED UNDER SEPARATE APPLICATION #121324290

FLOOR	USE	GFA	DEDUCTIONS	ZFA
FLOOR 49M	MECHANICAL	1,737	1,737	0
FLOOR 49	MECHANICAL	16,495	16,495	0
FLOOR 48	MECHANICAL	19,619	19,619	0
FLOOR 47	OFFICE	19,807	1,605	18,202
FLOOR 46	OFFICE	24,150	1,766	22,384
FLOOR 45	OFFICE	24,460	1,766	22,694
FLOOR 44	OFFICE	24,770	1,766	23,004
FLOOR 43	OFFICE	25,079	1,766	23,314
FLOOR 42	OFFICE	25,389	1,766	23,623
FLOOR 41	OFFICE	25,698	1,766	23,932
FLOOR 40	OFFICE	26,008	1,766	24,242
FLOOR 39	OFFICE	26,317	1,766	24,551
FLOOR 38	OFFICE	26,627	1,779	24,848
FLOOR 37	OFFICE	26,936	1,766	25,170
FLOOR 36	OFFICE	27,245	1,770	25,475
FLOOR 35	OFFICE	27,555	1,766	25,789
FLOOR 34M	MECHANICAL	886	886	0
FLOOR 34	MECHANICAL	28,139	28,139	0
FLOOR 33	OFFICE	28,482	3,225	25,257
FLOOR 32	OFFICE	28,465	1,860	26,605
FLOOR 31	OFFICE	35,094	2,515	32,579
FLOOR 30	OFFICE	35,391	2,514	32,877
FLOOR 29	OFFICE	35,109	2,514	32,595
FLOOR 28	OFFICE	35,984	3,197	32,787
FLOOR 27	OFFICE	36,281	2,851	33,430
FLOOR 26	OFFICE	36,577	3,318	33,259
FLOOR 25	OFFICE	36,875	2,732	34,143
FLOOR 24	OFFICE	37,151	4,119	33,032
FLOOR 23	OFFICE	37,424	4,167	33,257
FLOOR 22	OFFICE	37,695	3,081	34,614
FLOOR 21	OFFICE	37,964	4,627	33,337
FLOOR 20	OFFICE	36,101	2,783	33,318
FLOOR 19	OFFICE	36,036	2,756	33,280
FLOOR 18	OFFICE	39,767	2,756	37,011
FLOOR 17	OFFICE	41,140	2,756	38,384
FLOOR 16	OFFICE	39,770	2,756	37,014
FLOOR 15	OFFICE	41,139	2,756	38,383
FLOOR 14	OFFICE	39,762	2,756	37,006
FLOOR 13	OFFICE	41,126	2,756	38,370
FLOOR 12	OFFICE	39,743	2,756	36,987
FLOOR 11	OFFICE	41,101	2,756	38,345
FLOOR 10	OFFICE	39,710	2,756	36,954
FLOOR 9	OFFICE	41,065	2,752	38,313
FLOOR 8	OFFICE	39,672	2,756	36,916
FLOOR 7	OFFICE	41,543	2,756	38,787
FLOOR 6	OFFICE	43,567	3,110	40,457
FLOOR 5M	MECHANICAL	8,808	8,808	0
FLOOR 5	MECHANICAL	43,682	43,682	0
FLOOR 4	MECHANICAL	42,134	42,134	0
FLOOR 3	MECHANICAL	14,311	14,311	0
	OFFICE	15,025	0	15,025
FLOOR 2	OFFICE	11,258	711	10,547
FLOOR 2ST	MECHANICAL	1,145	1,145	0
FLOOR 1	OFFICE	27,766	2,060	25,706
GRND FL MEZ	MECHANICAL	3,526	3,526	0
GROUND FLOOR	LOADING	6,336	6,336	0
	RETAIL	41,869	0	41,869
	PARKING	2,500	2,500	0
	OFFICE	38,827	1,533	37,294
CELLAR C	MECHANICAL	22,167	22,167	0
	PARKING	56,514	56,514	0
	BIKE PARKING	2,820	2,820	0
<b>TOTALS</b>	<b>RETAIL USE</b>	<b>41,869</b>	<b>0</b>	<b>41,869</b>
	<b>OFFICE USE</b>	<b>1,753,469</b>	<b>380,374</b>	<b>1,373,095</b>
<b>TOTAL TOWER C (UNDER SEPARATE APPLICATION)</b>				<b>1,795,338 380,374 1,414,964</b>

HUDSON YARDS - TOWER D - 553 WEST 30TH STREET  
 PROPOSED BUILDING - FILED UNDER SEPARATE APPLICATION #121331193

FLOOR	USE	GFA	DEDUCTIONS	ZFA
FLOOR 1	OFFICE (6B)	0	0	0
GRND FL MEZ	OFFICE (6B)	0	0	0
GROUND FLOOR	OFFICE (6B)	17,816	0	17,816
CELLAR C	OFFICE (6B)	2,475	2,475	0
<b>TOTALS</b>	<b>OFFICE USE</b>	<b>20,291</b>	<b>2,475</b>	<b>17,816</b>
<b>TOTAL TOWER D (UNDER SEPARATE APPLICATION)</b>				<b>20,291 2,475 17,816</b>

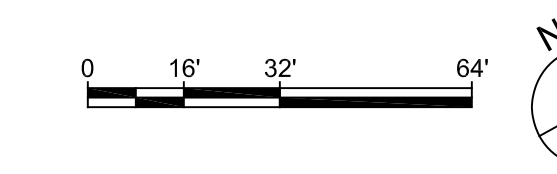
EXISTING BUILDINGS ON ZONING LOT

CELLAR C	EXISTING MTA/ LIRR SUBSTATION	10,685	10,685	0
<b>TOTALS</b>	<b>TOTAL EXISTING BUILDINGS</b>	<b>10,685</b>	<b>10,685</b>	<b>0</b>
<b>TOTAL WHOLE ZONING LOT</b>		<b>2,341,352</b>	<b>808,674</b>	<b>1,532,678</b>

APPROVED  
 Date: 05/14/2014  
 NYC Development Hub

2 GROUND FLOOR PLAN - ZFA DEDUCTIONS  
 1/32" = 1'-0"

1 FLOOR AREA SCHEDULE  
 NTS



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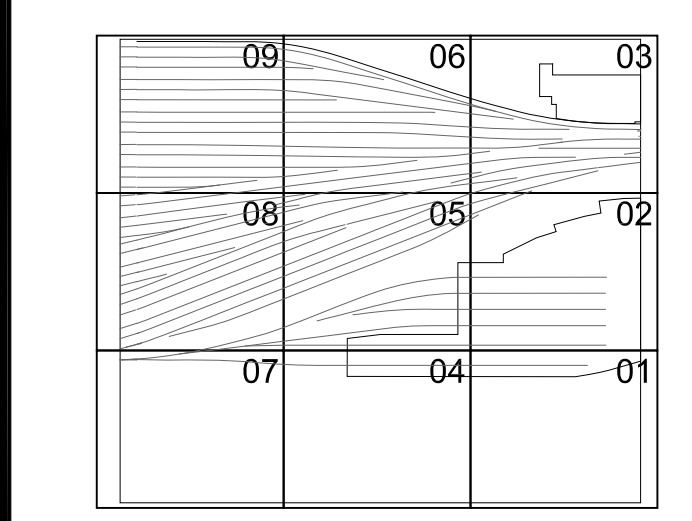
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3	D.O.B. SUBMISSION UPDATE	02/12/2014
2	D.O.B. SUBMISSION	10/18/2013
1	NYC D.O.B. FILING	06/17/2013
0	DATE	DATE



Date: 2/15/2013  
 Project No: 2198  
 Drawing No: HYE-PL-Z-010

REGISTERED ARCHITECT  
 JOHN P. COUGHLIN  
 STATE OF NEW YORK

ZONING FLOOR AREA CALCULATIONS

Sheet Number: B-010.00  
 SHEET 002 OF 009



-NOTE: WILL COMPLY WITH ALL OTHER APPLICABLE REQUIREMENTS OF ZR-33-70 INCLUSIVE

TOTAL ZONING LOT AREA:  
570,000 SF

KEY

- ZONING LOT BOUNDARY AND PROPERTY LINE
- [Hatched Box] PUBLIC ACCESS AREAS - OPEN TO THE SKY - PER ZR 93-71 (TOTAL = 246,943 SF)
- [Dotted Box] PUBLIC ACCESS AREAS - COVERED - PER ZR 93-71 (TOTAL = 66,557 SF)

-BUILDING LOCATION AND DIMENSIONS SUBJECT TO CHANGE  
-INFORMATION OUTSIDE ZONING LOT BOUNDARY SHOWN FOR ILLUSTRATIVE PURPOSES ONLY

HUDSON YARDS PLATFORM

Address  
530 WEST 33RD STREET  
NEW YORK, NY

Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Tishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

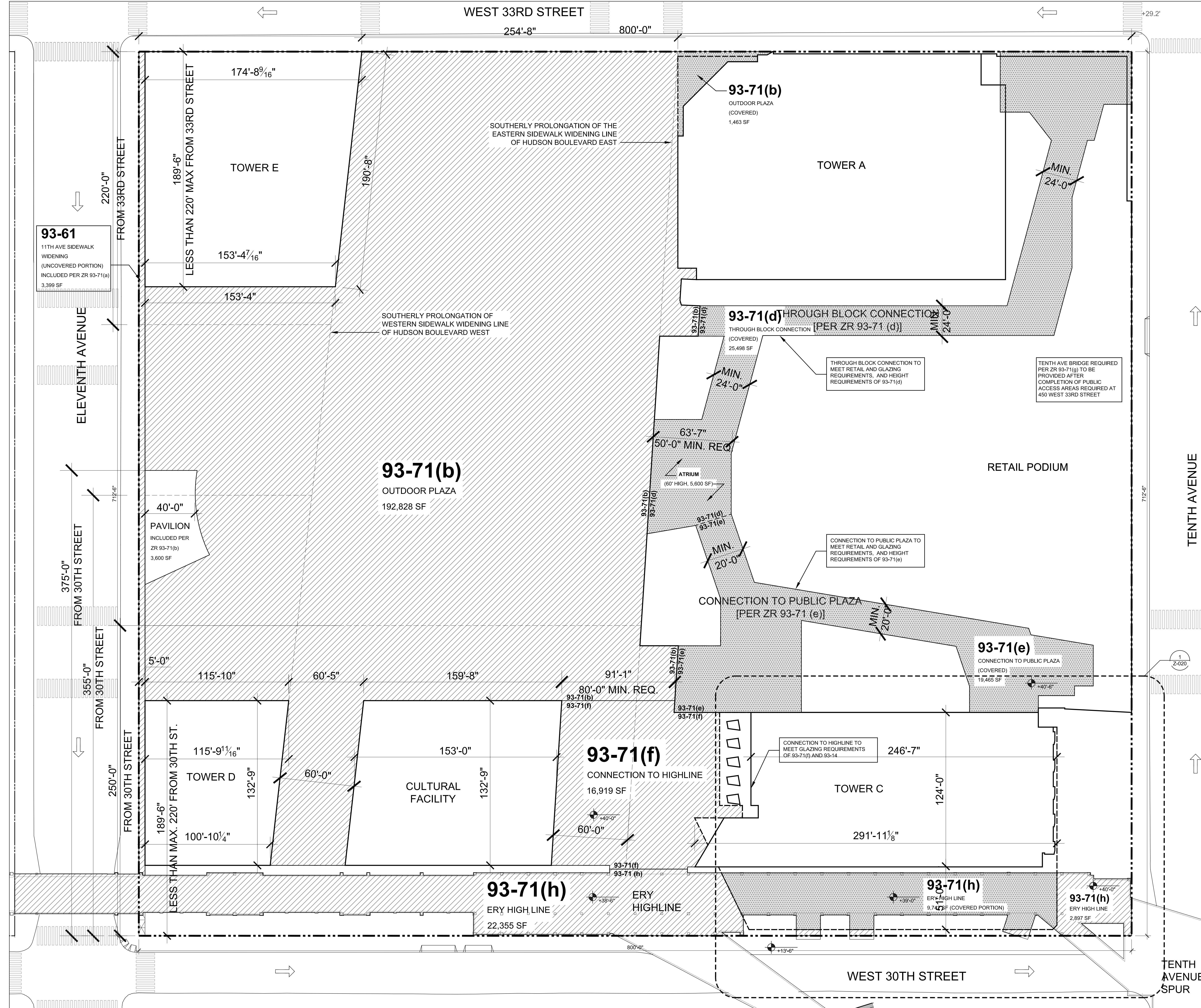
Architect  
Kohn Pedersen Fox Associates PC  
Architects & Planning Consultants  
11 West 42nd Street  
New York, NY 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thomson Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 917.661.7801

Civil, Mechanical, Electrical, Plumbing  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

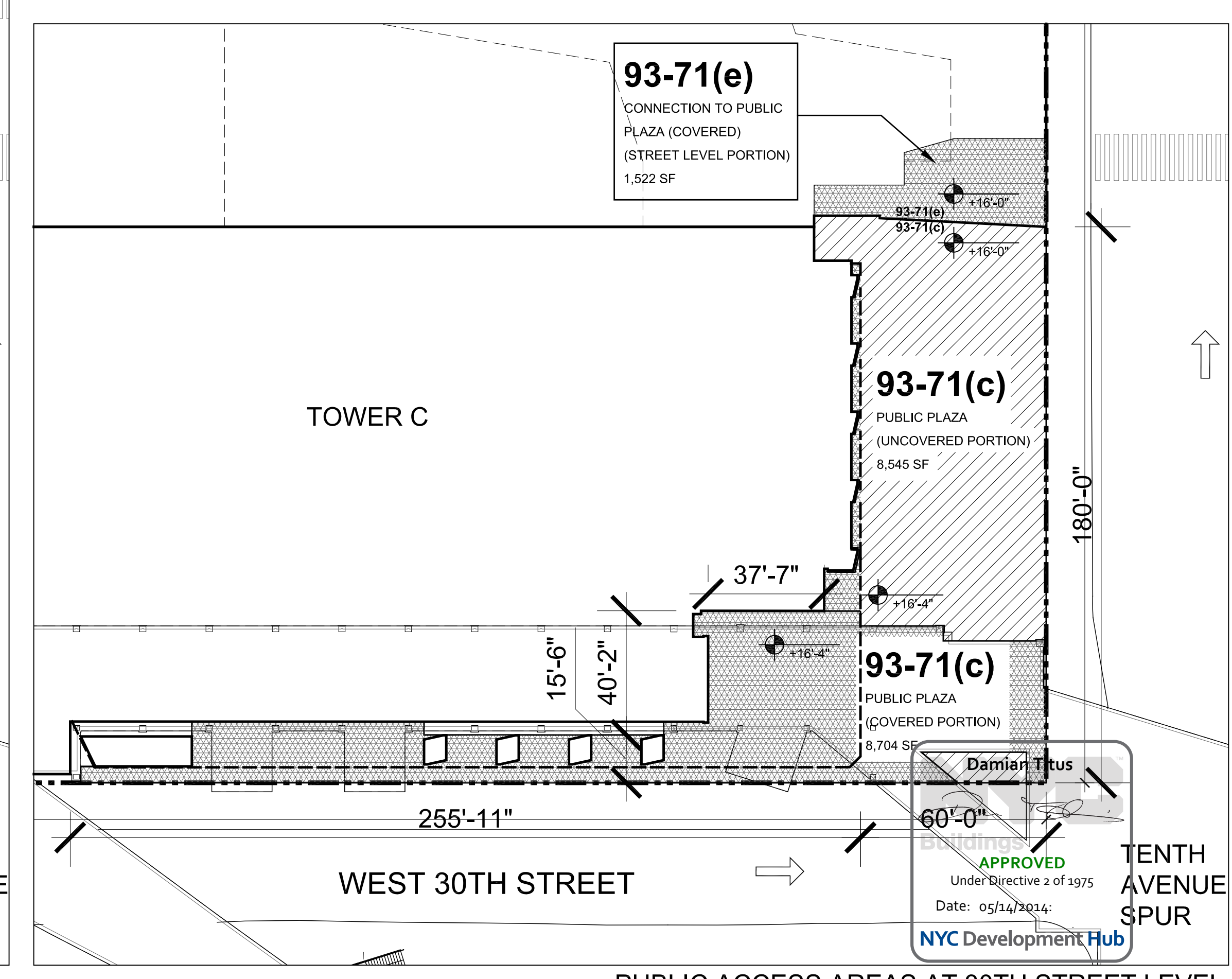
LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
ARCUM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



Zoning Lot Area	Zoning lot (sf)	570,000
<b>PUBLIC ACCESS AREAS (sf) (Per ZR 93-71)</b>		
93-71(b) Outdoor Plaza	192,828	192,828
93-61 11th Ave. sidewalk widening	3,399	3,399
93-71(f) Connection to High Line	16,919	16,919
93-71(c) Public Plaza (Uncovered Portion)	8,545	8,545
93-71(h) Highline Area (uncovered portion)	25,252	25,252
93-71(b) Outdoor Plaza (covered portion)	1,463	1,463
93-71(c) Public Plaza (covered portion)	8,704	8,704
93-61 11th Ave. sidewalk widening (covered portion)	163	163
93-71(d) Through Block Connection + atrium (covered)	25,498	25,498
93-71(e) Connection to Public Plaza covered	19,465	19,465
93-71(e) Connection to Public Plaza covered (street level portion)	1,522	1,522
93-71(h) Highline Area - (covered portion)	9,742	9,742
<b>SUB TOTAL</b>	<b>246,943</b>	<b>313,500</b>
<b>% of Lot</b>	<b>43.32%</b>	<b>55.00%</b>
<b>MIN. REQUIRED</b>	<b>228,000</b>	<b>313,500</b>
<b>% of Lot</b>	<b>40%</b>	<b>55.00%</b>

2 PUBLIC ACCESS AREA CALCULATIONS

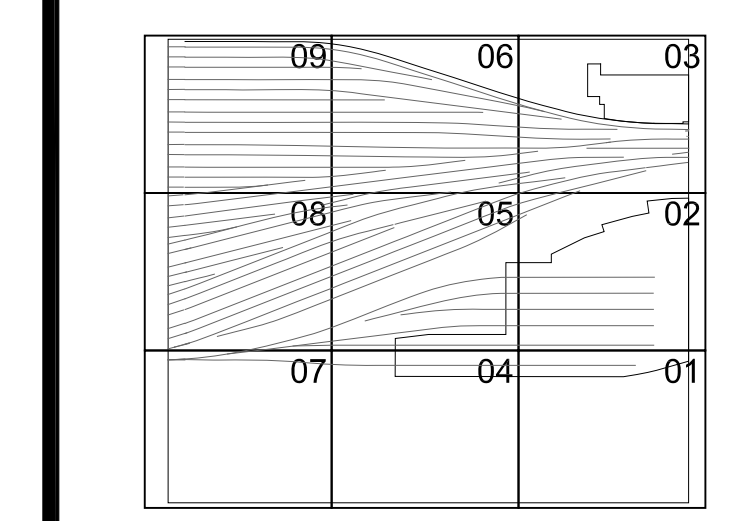


1 PUBLIC ACCESS AREAS AT 30TH STREET LEVEL  
SCALE: 1/32"=1'-0"

3 PUBLIC ACCESS AREAS AT PLAZA LEVEL  
SCALE: 1/32"=1'-0"

2	D.O.B SUBMISSION	10/18/2013
1	NYC D.O.B. FILING	06/17/2013
	NYC	NYC

Key Plan



Date: 2/15/2013  
Drawing No: 2198  
Project No: HY-PL-Z-020  
Drawing Title: ZONING FUTURE REQUIRED PUBLIC ACCESS AREAS

APPROVED Under Article 23 of 1975  
Date: 05/14/2014  
NYC Development Hub

Drawing Number: 8-SC4V Drawing Number  
Z-020.00  
SHEET 003 OF 009



-NOTE: WILL COMPLY WITH ALL OTHER APPLICABLE REQUIREMENTS OF SECTION 93-70 INCLUSIVE

**HUDSON YARDS PLATFORM**

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530 WEST 33RD STREET  
NEW YORK, NY

*Client*  
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*Architect*  
Kohn Pedersen Fox Associates PC  
Architects & Planning Consultants  
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*Structural Engineer*  
Thomson Tomasetti, Inc.  
51 Madison Avenue  
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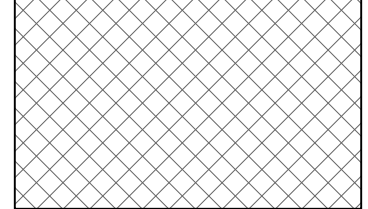
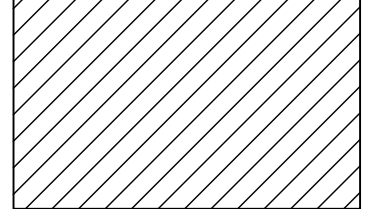

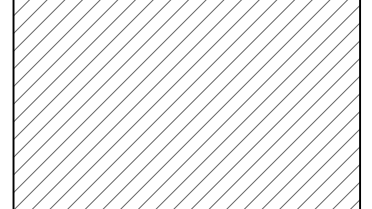
*Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security*  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

*LIRR Ventilation*  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

*LIRR Substation*  
ARCOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

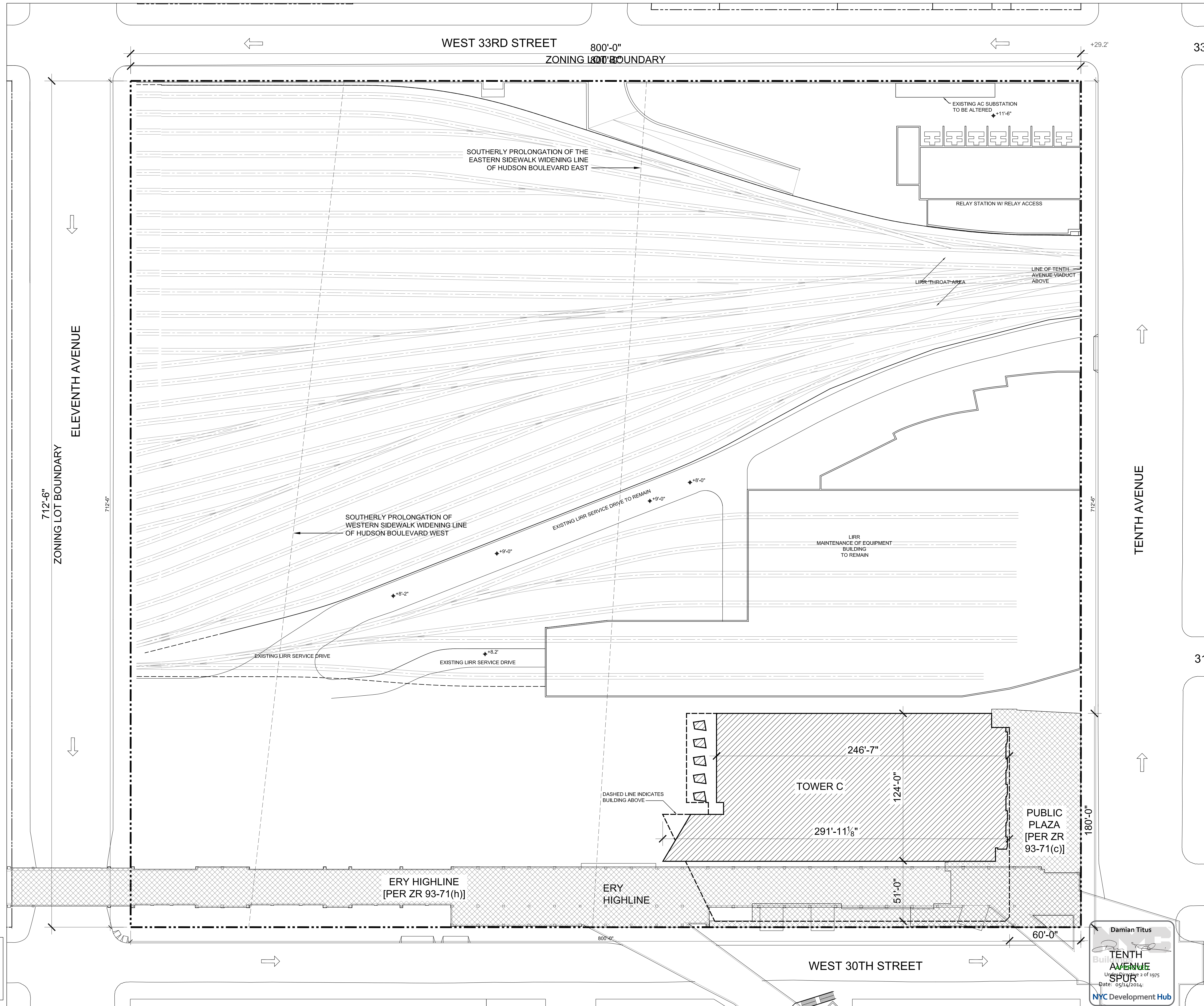
TOTAL ZONING LOT AREA:  
**570,000 SF**

**KEY**

-  ZONING LOT BOUNDARY AND PROPERTY LINE
-  PUBLIC ACCESS AREAS NEW THIS PHASE
-  NEW BUILDING THIS PHASE
-  PUBLIC ACCESS AREAS EXISTING PER PREVIOUS PHASE
-  EXISTING BUILDING PER PREVIOUS PHASE

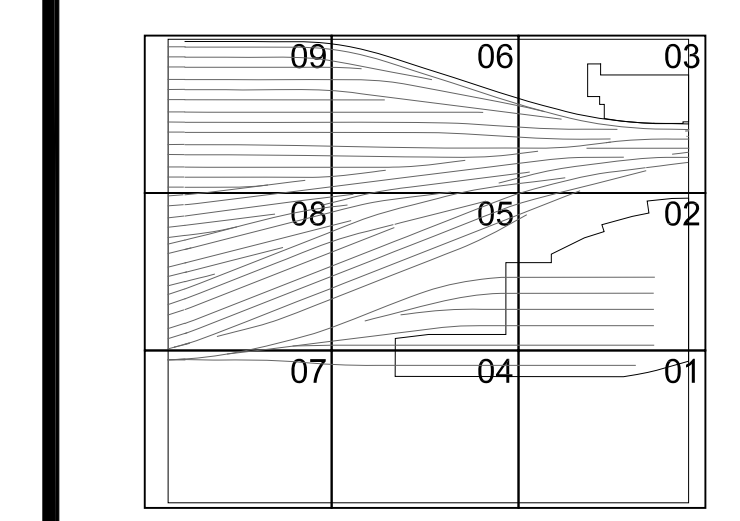
Phase	Tower	Anticipated Cumulative Floor Area Provided*	Public Access Area New This Phase	Cumulative Public Access Area Provided	Percentage of Total Access Area provided
Phase 1	Tower C	1,414,964	52,243	52,243	17%

\*FLOOR AREA PER BUILDING SUBJECT TO CHANGE (2) PUBLIC ACCESS AREAS BY PHASE



\*CONSTRUCTION FENCE WILL BE IN PLACE FOR PROTECTION AT LIMITS OF BUILDING AND PUBLIC ACCESS AREAS TO BE PROVIDED IN THIS PHASE

2	D.O.B SUBMISSION	10/18/2013
1	NYC D.O.B. FILING	06/17/2013

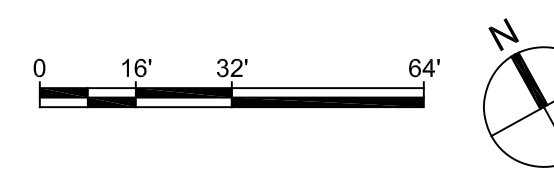


Date: 2/15/2013  
Project No: 2198  
Sheet Number: HYE-PL-Z-022

ZONING PUBLIC ACCESS AREAS PHASING PHASE 01

Drawing Number: 8-SC4V Drawing Number  
**Z-022.00**

1 PHASE 1 - TOWER C  
SCALE: 1/32"=1'-0"




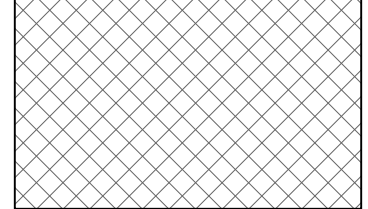
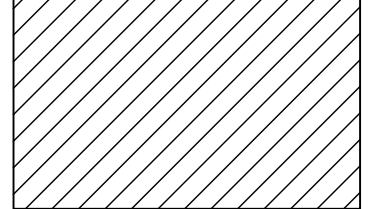

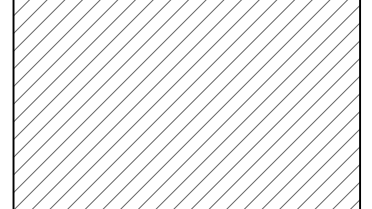


- Client*  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048
- Oxford Properties Group*  
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New York, NY 10022  
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Tishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600
- Architect*  
Kohn Pedersen Fox Associates PC  
Architects & Planning Consultants  
11 West 42nd Street  
New York, NY 10036  
Tel: 212.977.6500 Fax: 212.956.2526
- Structural Engineer*  
Thomson Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
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- Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security*  
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New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825
- LIRR Ventilation*  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
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- LIRR Substation*  
ARCUM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

-NOTE: WILL COMPLY WITH ALL OTHER REQUIREMENTS OF SECTION 93-70 INCLUSIVE

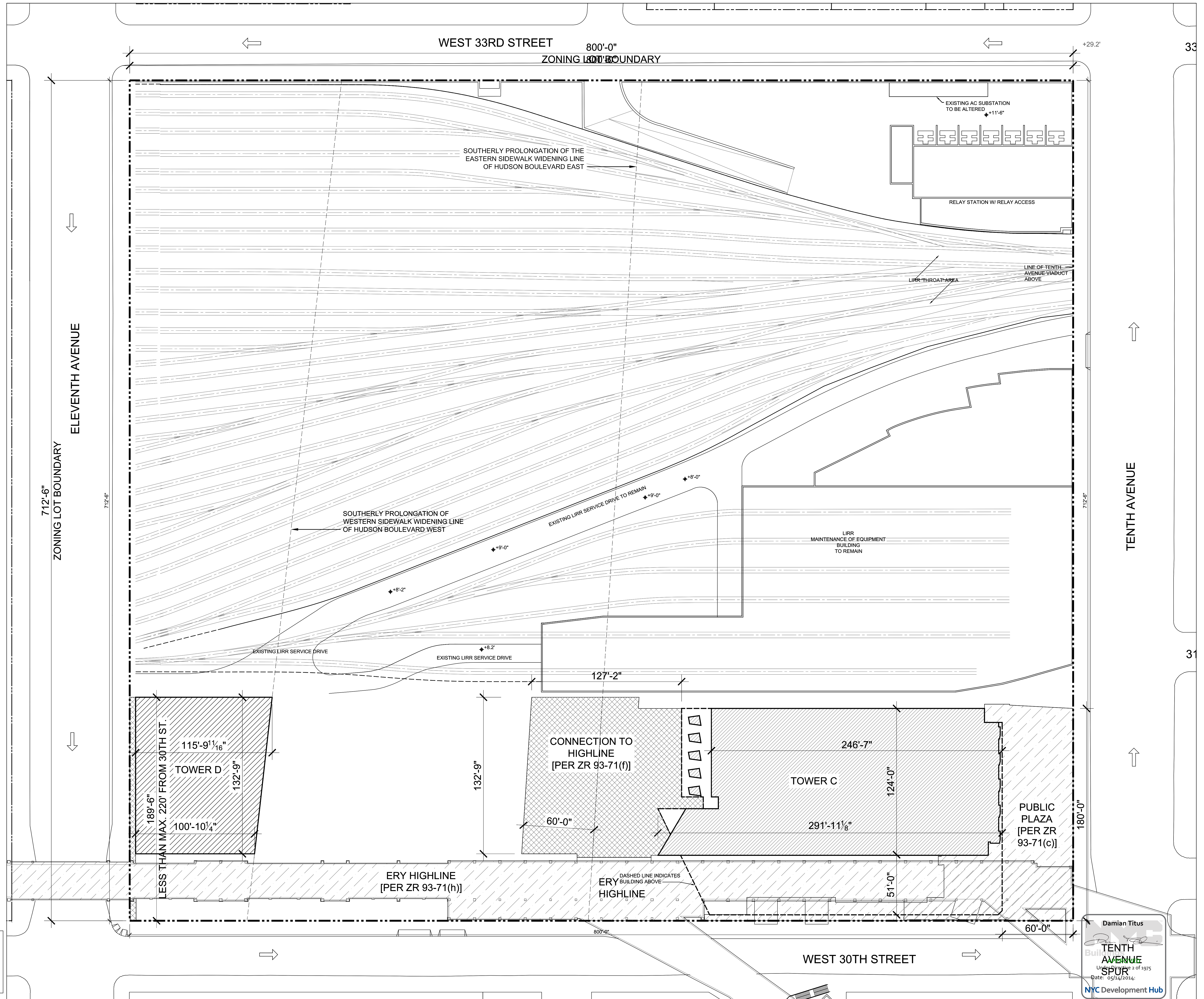
TOTAL ZONING LOT AREA:  
**570,000 SF**

**KEY**

-  ZONING LOT BOUNDARY AND PROPERTY LINE
-  PUBLIC ACCESS AREAS NEW THIS PHASE
-  NEW BUILDING THIS PHASE
-  PUBLIC ACCESS AREAS EXISTING PER PREVIOUS PHASE
-  EXISTING BUILDING PER PREVIOUS PHASE

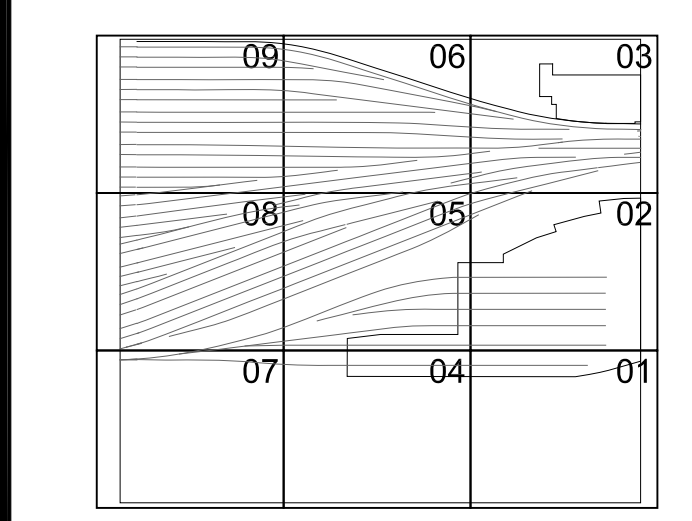
		Anticipated Cumulative Floor Area Provided*	Public Access Area New This Phase	Cumulative Public Access Area Provided	Percentage of Total Access Area provided
Phase 1	Tower C	1,414,964	52,243	52,243	17%
Phase 2	Tower D	2,169,964	17,877	70,120	22%

\*FLOOR AREA PER BUILDING SUBJECT TO CHANGE (2) PUBLIC ACCESS AREAS BY PHASE



\*CONSTRUCTION FENCE WILL BE IN PLACE FOR PROTECTION AT LIMITS OF BUILDING AND PUBLIC ACCESS AREAS TO BE PROVIDED IN THIS PHASE

2	D.O.B SUBMISSION	10/18/2013
1	NYC D.O.B. FILING	06/17/2013

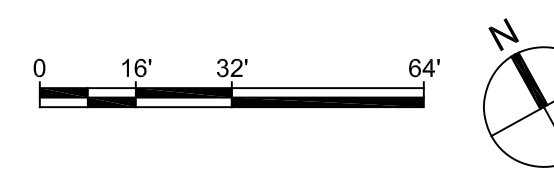


Date: 2/15/2013  
Project No: 2198  
Sheet Number: HYE-PL-Z-025

ZONING PUBLIC ACCESS AREAS PHASING PHASE 02

Z-025.00

1 PHASE 2 - TOWER D  
SCALE: 1/32"=1'-0"





-NOTE: WILL COMPLY WITH ALL OTHER APPLICABLE REQUIREMENTS OF SECTION 93-70 INCLUSIVE

**HUDSON YARDS PLATFORM**

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NEW YORK, NY

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New York, NY 10017  
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*Architect*  
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Architects & Planning Consultants  
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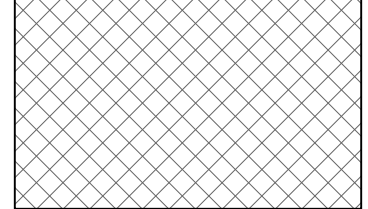
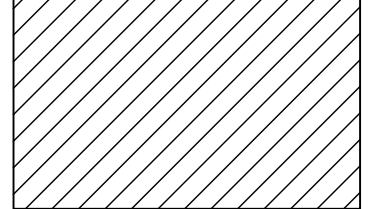

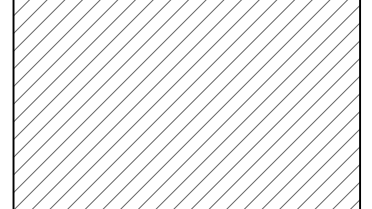
*Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security*  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

*LIRR Ventilation*  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

*LIRR Substation*  
ARCOS  
645 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

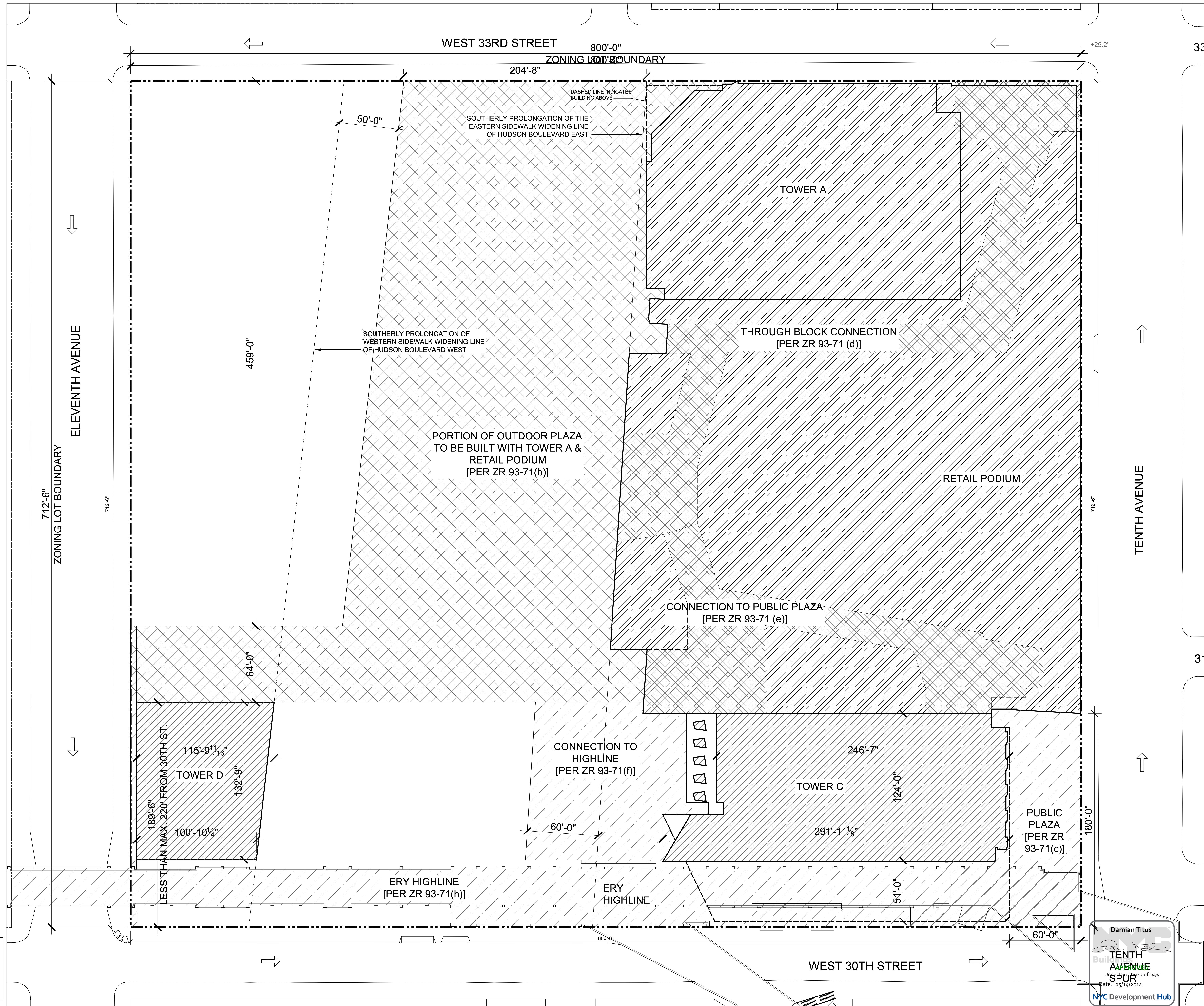
TOTAL ZONING LOT AREA:  
**570,000 SF**

**KEY**

-  ZONING LOT BOUNDARY AND PROPERTY LINE
-  PUBLIC ACCESS AREAS NEW THIS PHASE
-  NEW BUILDING THIS PHASE
-  PUBLIC ACCESS AREAS EXISTING PER PREVIOUS PHASE
-  EXISTING BUILDING PER PREVIOUS PHASE

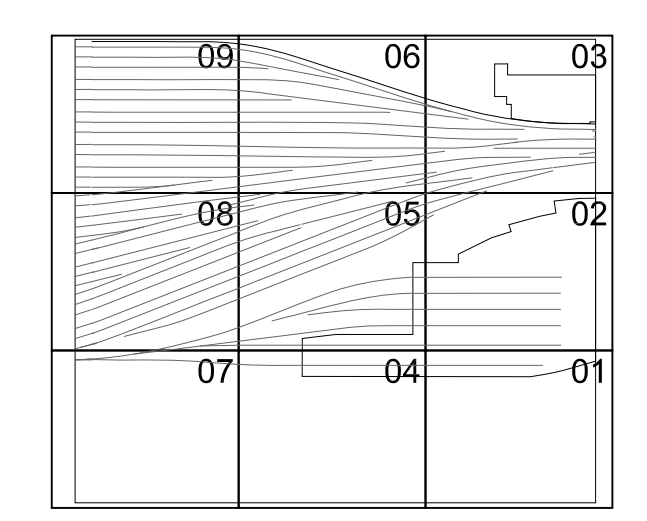
		Anticipated Cumulative Floor Area Provided*	Public Access Area New This Phase	Cumulative Public Access Area Provided	Percentage of Total Access Area provided
Phase 1	Tower C	1,414,964	52,243	52,243	17%
Phase 2	Tower D	2,169,964	17,877	70,120	22%
Phase 3	Tower A & Retail Podium	5,070,000	176,332	246,452	79%

\*FLOOR AREA PER BUILDING SUBJECT TO CHANGE (2) PUBLIC ACCESS AREAS BY PHASE



\*CONSTRUCTION FENCE WILL BE IN PLACE FOR PROTECTION AT LIMITS OF BUILDING AND PUBLIC ACCESS AREAS TO BE PROVIDED IN THIS PHASE

2	D.O.B SUBMISSION	10/18/2013
1	NYC D.O.B. FILING	06/17/2013
0	DATE	DATE



Date: 2/15/2013  
Project No: 2198  
Sheet No: 03  
Drawing Title: HYE-PL-Z-026

ZONING PUBLIC ACCESS AREAS PHASING PHASE 03

Z-026.00  
SHEET 006 OF 009

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-NOTE: WILL COMPLY WITH ALL OTHER APPLICABLE REQUIREMENTS OF SECTION 93-70 INCLUSIVE

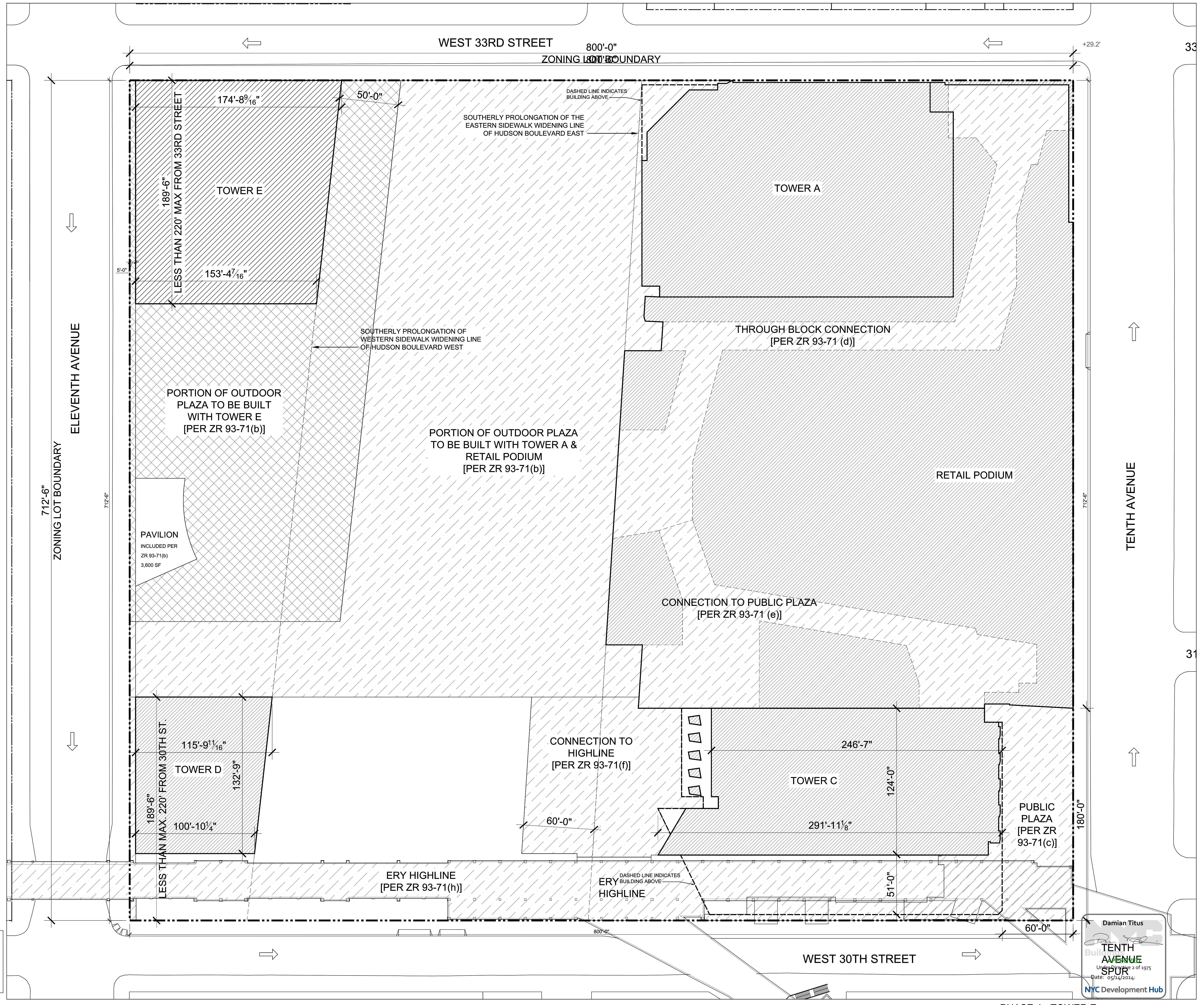
		Anticipated Cumulative Floor Area Provided*	Public Access Area New This Phase	Cumulative Public Access Area Provided	Percentage of Total Access Area provided
Phase 1	Tower C	1,414,964	52,243	52,243	17%
Phase 2	Tower D	2,169,964	17,877	70,120	22%
Phase 3	Tower A & Retail Podium	5,070,000	176,332	246,452	79%
Phase 4	Tower E	6,070,000	59,033	305,485	97%

TOTAL ZONING LOT AREA:  
**570,000 SF**

**KEY**

- ZONING LOT BOUNDARY AND PROPERTY LINE
- PUBLIC ACCESS AREAS NEW THIS PHASE
- NEW BUILDING THIS PHASE
- PUBLIC ACCESS AREAS EXISTING PER PREVIOUS PHASE
- EXISTING BUILDING PER PREVIOUS PHASE

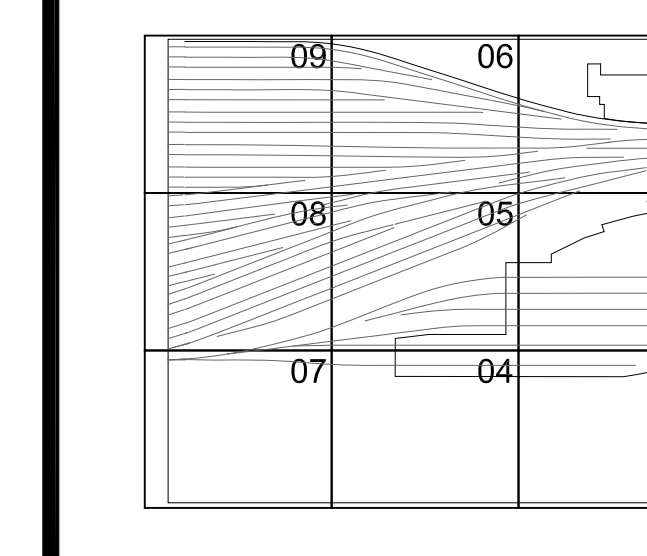
\*FLOOR AREA PER BUILDING SUBJECT TO CHANGE (2) PUBLIC ACCESS AREAS BY PHASE



\*CONSTRUCTION FENCE WILL BE IN PLACE FOR PROTECTION AT LIMITS OF BUILDING AND PUBLIC ACCESS AREAS TO BE PROVIDED IN THIS PHASE

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 77 Water Street  
 New York, NY 10005  
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- LIRR Substation*  
 AECOM  
 645 Third Avenue  
 New York, NY 10158  
 Tel: 212.973.9200 Fax: 212.682.6172

NO.	DESCRIPTION	DATE
2	D.O.B SUBMISSION	10/18/2013
1	NYC D.O.B. FILING	06/17/2013



Date: 2/15/2013  
 Project No: 2198  
 Sheet No: 04  
 Drawing Title: HYE-PL-Z-027

ZONING PUBLIC ACCESS AREAS PHASING PHASE 04

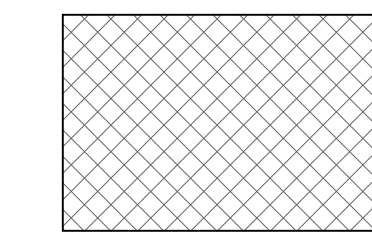
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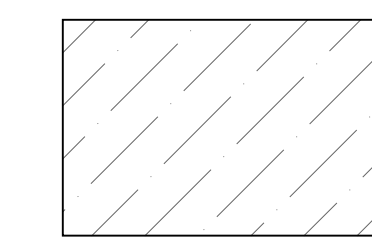
		Anticipated Cumulative Floor Area Provided*	Public Access Area New This Phase	Cumulative Public Access Area Provided	Percentage of Total Access Area provided
Phase 1	Tower C	1,414,964	52,243	52,243	17%
Phase 2	Tower D	2,169,964	17,877	70,120	22%
Phase 3	Tower A & Retail Podium	5,070,000	176,332	246,452	79%
Phase 4	Tower E	6,070,000	59,033	305,485	97%
Phase 5	Cultural Facility	6,170,000	8,015	313,500	100%

TOTAL ZONING LOT AREA:  
570,000 SF

KEY



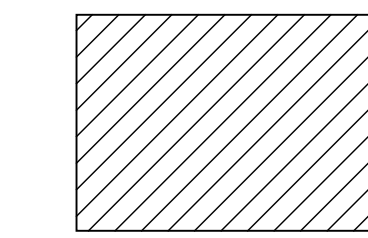
PUBLIC ACCESS AREAS NEW THIS PHASE



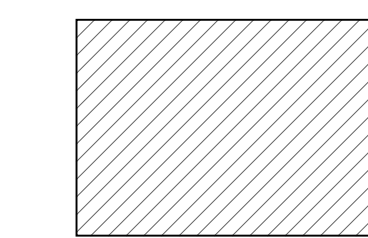
PUBLIC ACCESS AREAS EXISTING PER PREVIOUS PHASE



ZONING LOT BOUNDARY AND PROPERTY LINE



NEW BUILDING THIS PHASE



EXISTING BUILDING PER PREVIOUS PHASE

-NOTE: WILL COMPLY WITH ALL OTHER APPLICABLE REQUIREMENTS OF SECTION 93-70 INCLUSIVE

HUDSON YARDS PLATFORM

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Architect  
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Architects & Planning Consultants  
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New York, NY 10036  
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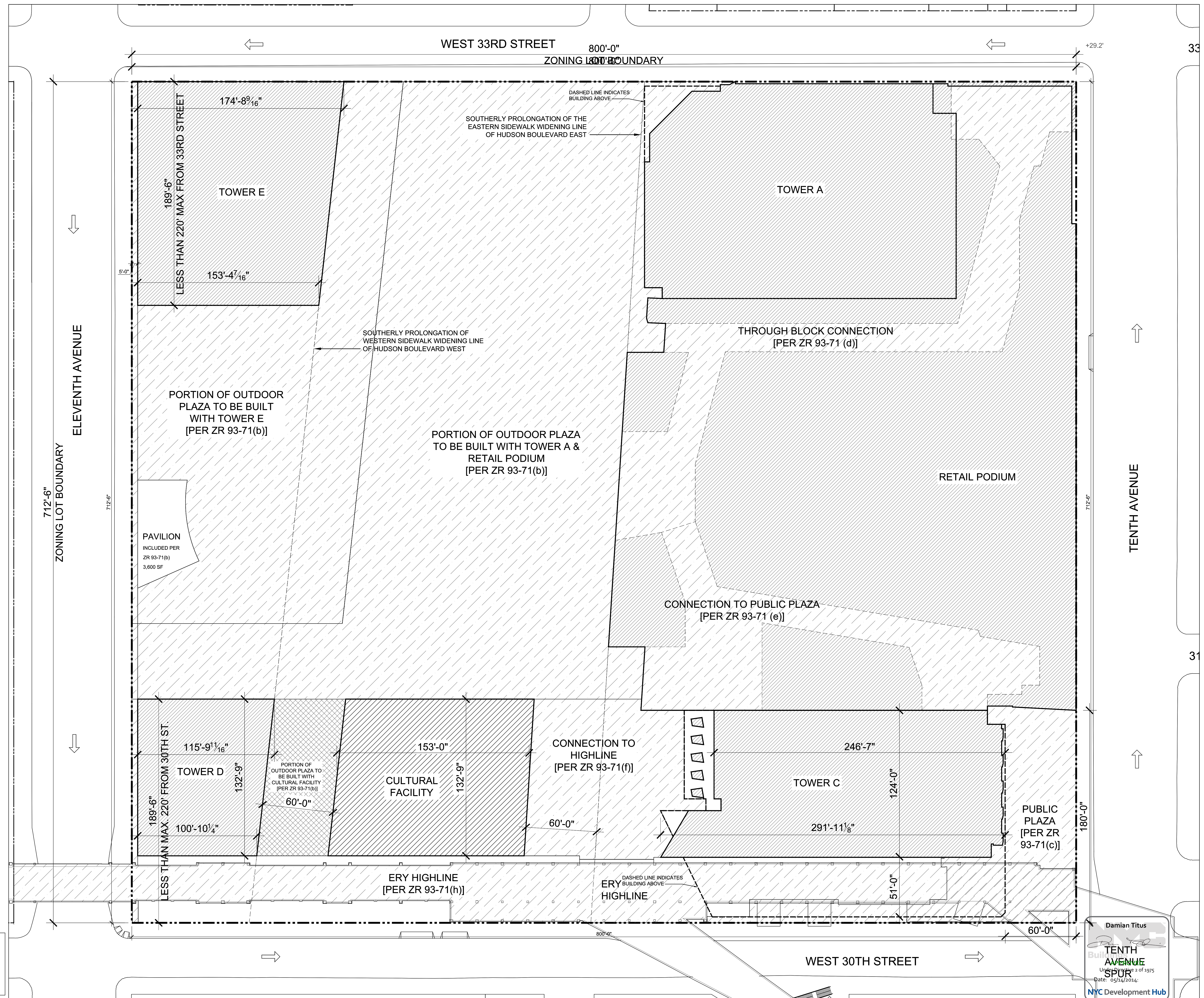
Structural Engineer  
Thomson Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 917.661.7801

Civil, Mechanical, Electrical, Plumbing  
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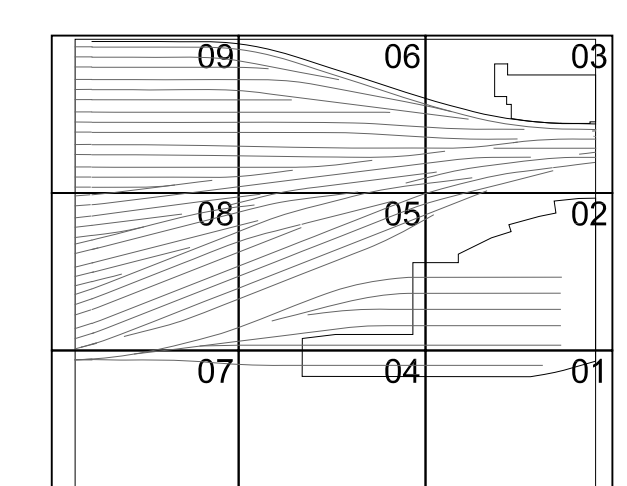
\*FLOOR AREA PER BUILDING SUBJECT TO CHANGE (2) PUBLIC ACCESS AREAS BY PHASE



\*CONSTRUCTION FENCE WILL BE IN PLACE FOR PROTECTION AT LIMITS OF BUILDING AND PUBLIC ACCESS AREAS TO BE PROVIDED IN THIS PHASE

2	D.O.B SUBMISSION	10/18/2013
1	NYC D.O.B. FILING	06/17/2013
	DATE	DATE

Key Plan



Date: 2/15/2013  
Project No: 2198  
Sheet No: 05 of 05  
Drawing Title: HYE-PL-Z-028

ZONING PUBLIC ACCESS AREAS PHASING PHASE 05

Drawing Number: 8-SC4V Drawing Number  
Z-028.00

SHEET 008 OF 009

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**HUDSON YARDS - PLATFORM**

Address:  
 530 WEST 33RD STREET  
 NEW YORK, NY

Client  
 Related Companies  
 60 Columbus Circle  
 New York, NY 10023  
 TEL: 212.801.1000 FAX: 212.801.1048

Oxford Properties Group  
 320 Park Avenue, 17th Floor  
 New York, NY 10022  
 TEL: 212.986.7514 FAX: 212.986.7510

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Structural Engineer  
 Thornton Tomasetti, Inc.  
 51 Madison Avenue  
 New York, NY 10010  
 TEL: 917.661.7800 FAX: 917.661.7801

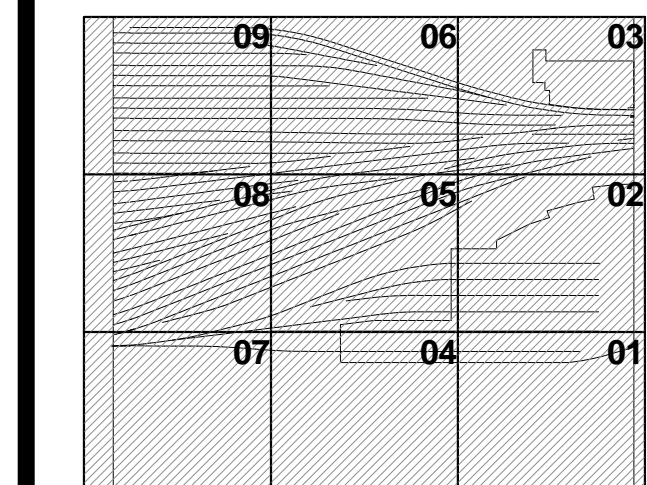
Mechanical, Electrical, Plumbing, Fire Protection  
 Parsons Transportation Group  
 100 Broadway  
 New York, NY 10005  
 TEL: 212.266.8300 FAX: 212.571.6825

LIRR Ventilation  
 One Arup & Partners P.C.  
 77 Water Street  
 New York, NY 10005  
 212.896.3000

LIRR Substation  
 AECOM  
 605 Third Avenue  
 New York, NY 10158  
 TEL: 212.973.9300 FAX: 212.682.6172

7.	DOB SUBMISSION UPDATE	3/17/2014
8.	Issue to FDNY	12/12/2013
9.	L.I.R.R. - Pre-Final 100%	11/22/2013
10.	ME PLATFORM SUBMISSION	
11.	L.I.R.R. - 90% SUBMISSION	8/09/2013
12.	NYC DOB Filing	6/17/2013
13.	L.I.R.R. - 50% SUBMISSION	5/20/2013
14.	L.I.R.R. - 30% SUBMISSION	2/15/2013
15.	Description	Date

Rev Plot



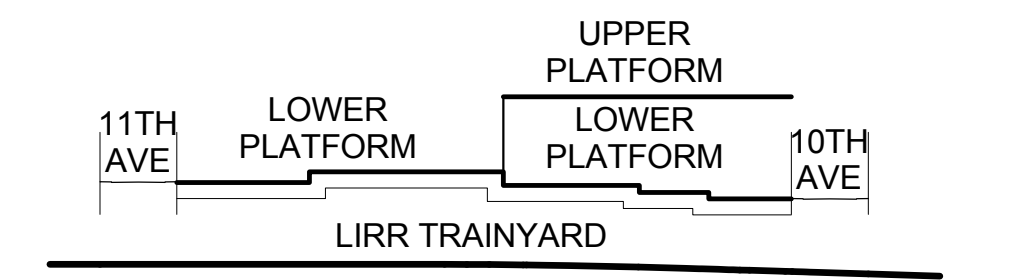
Date: 02/15/13  
 Project No: 2188  
 Drawn By: [Signature]  
 Sheet Number: [Signature]

**HYE-PL-EG-102.00**

**LIFE SAFETY TRACK LEVEL OVERALL PLAN**

Drawing Title  
**EG-102.00**

- GENERAL NOTES**
- HATCHED AREA [Symbol] DENOTES PROPOSED NON-LIRR AREA RESERVED FOR TOWER A & RETAIL PODIUM SERVICE P.O.E.s - FOR NYC DOB REVIEW
  - HATCHED AREA [Symbol] DENOTES MOE/AC SUBSTATION/CONTROL TOWER LAYOUT SHOWN ON EG-810
  - SYMBOL [Symbol] DENOTES SEPARATION BETWEEN LIRR TRACK AREA, LIRR SUPPORT SPACES AND PRIVATE/NON-LIRR SPACES
  - PLATFORM LOWER LEVEL PROVIDES THE ENCLOSURE TO LIRR TRAINYARD AREA. PLATFORM UPPER LEVEL INCLUDES TEMPORARY REQUIRED OVER THROAT AND BASE OF RETAIL PODIUM KEY SECTION.



SEE A-020 FOR DIAGRAMMATIC VIEW OF 3-HR SEPARATION AND EXTENT OF LIRR TRAINYARD ENCLOSURE

5. NOTE  
 FOR STAIR LAYOUT INCLUDING PHOTOLUMINESCENT EXIT PATH MARKINGS REFER TO A4-SERIES PLANS & SECTIONS FOR DETAIL

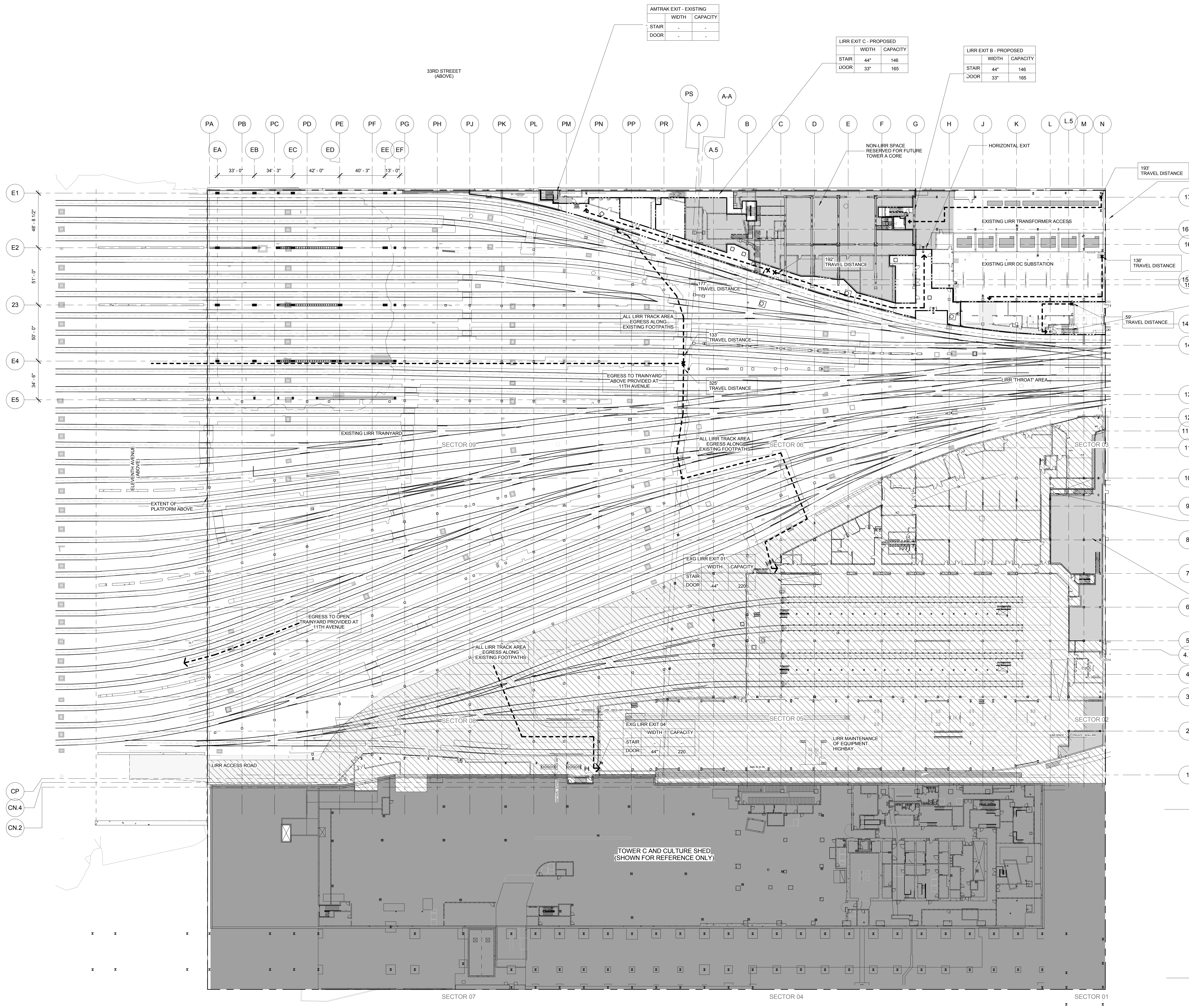
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[Symbol]	1-HOUR RATED WALL
[Symbol]	2-HOUR RATED WALL
[Symbol]	3-HOUR RATED WALL
[Symbol]	TRAVEL DISTANCE
OCCUPANCY	
[Symbol]	OCCUPANCY LOAD FACTOR (F1*PER)
[Symbol]	OCCUPANCY LOAD (PERSONS)

LIRR STAIR NO. 2 - EXISTING	
WIDTH	CAPACITY
STAIR 39'	130
DOOR 33'	220

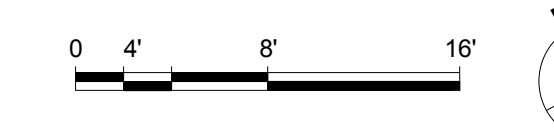
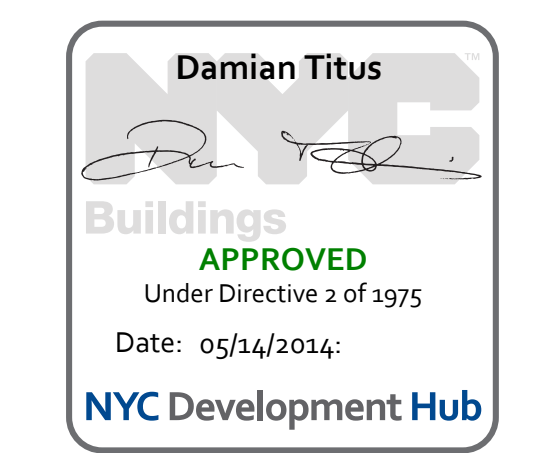
AMTRAK EXIT - EXISTING	
WIDTH	CAPACITY
STAIR -	-
DOOR -	-

LIRR EXIT C - PROPOSED	
WIDTH	CAPACITY
STAIR 44'	146
DOOR 33'	165

LIRR EXIT B - PROPOSED	
WIDTH	CAPACITY
STAIR 44'	146
DOOR 33'	165



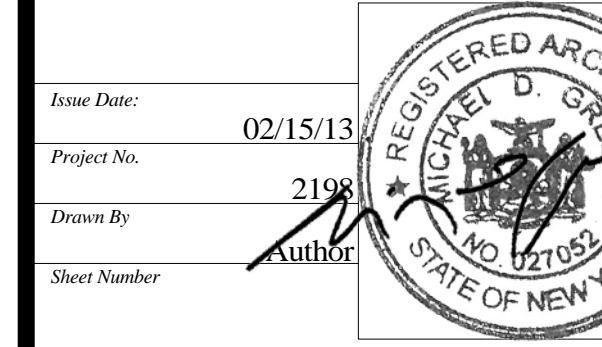
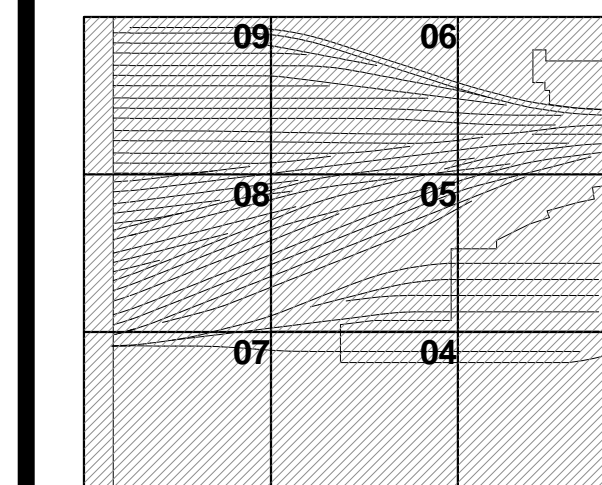
**1 TRACK LEVEL OVERALL PLAN**  
 SCALE: 1/32" = 1'-0"





7.	DOB SUBMISSION UPDATE	3/17/2014
8.	Issue to FDNY	12/12/2013
9.	L.I.R.R. - Pre-Final 100%	11/22/2013
10.	MOE PLATFORM SUBMISSION	
11.	L.I.R.R. - 90% SUBMISSION	8/09/2013
12.	NYC DOB Filing	6/17/2013
13.	L.I.R.R. - 60% SUBMISSION	5/20/2013
14.	L.I.R.R. - 30% SUBMISSION	2/15/2013
15.	Description	Date

Rev. Plot



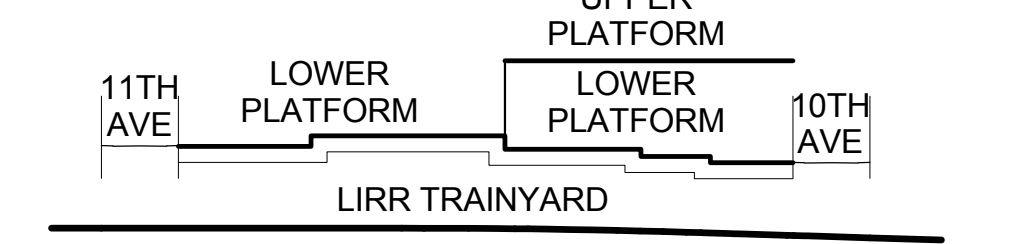
**HYE-PL-EG-103.00**

**LIFE SAFETY LOWER PLATFORM LEVEL OVERALL PLAN**

Drawing Number  
**EG-103.00**

**GENERAL NOTES**

- HATCHED AREA [Symbol] DENOTES PROPOSED NON-LIRR AREA RESERVED FOR TOWER A & RETAIL PODIUM SERVICE P.O.E.s - FOR NYC DOB REVIEW
- HATCHED AREA [Symbol] DENOTES MOE/AC SUBSTATION CONTROL TOWER LAYOUT SHOWN ON EG-810
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- PLATFORM LOWER LEVEL PROVIDES THE ENCLOSURE TO LIRR TRAINYARD AREA. PLATFORM UPPER LEVEL INCLUDES TEMPORARY REQUIRED OVER THROAT AND BASE OF RETAIL PODIUM KEY SECTION:



SEE A-020 FOR DIAGMATIC VIEW OF 3-HR SEPARATION AND EXTENT OF LIRR TRAINYARD ENCLOSURE

- NOTE  
FOR STAIR LAYOUT INCLUDING PHOTOLUMINESCENT EXIT PATH MARKINGS REFER TO A4-SERIES PLANS & SECTIONS FOR DETAIL

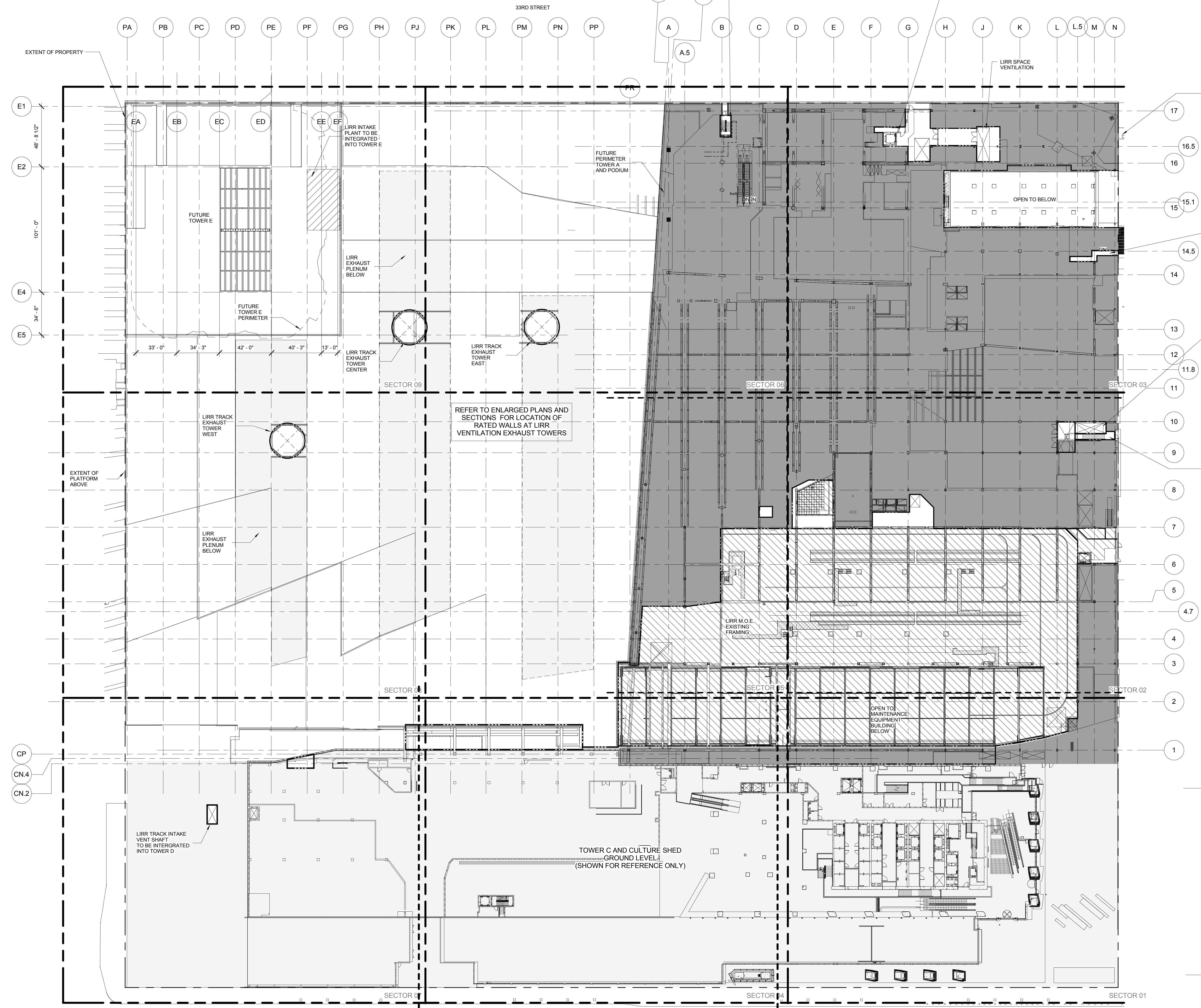
SYMBOL KEY	
[Symbol]	1-HOUR RATED WALL
[Symbol]	2-HOUR RATED WALL
[Symbol]	3-HOUR RATED WALL
[Symbol]	TRAVEL DISTANCE
OCCUPANCY	
[Symbol]	OCCUPANCY LOAD FACTOR (F <sup>1</sup> /PER)
[Symbol]	OCCUPANCY LOAD (PERSONS)

LIRR STAIR NO. 2 - EXISTING	
STAIR	39" 130
DOOR	33" 220

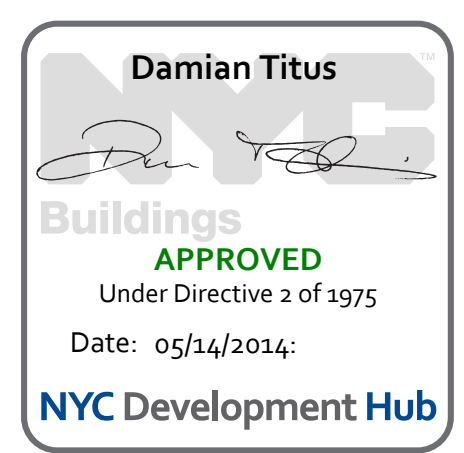
LIRR EXIT A - PROPOSED	
STAIR	44" 146
DOOR	33" 165

LIRR EXIT C - PROPOSED	
STAIR	44" 146
DOOR	33" 165

LIRR EXIT B - PROPOSED	
STAIR	44" 146
DOOR	33" 165



**1 LOWER PLATFORM LEVEL OVERALL PLAN**  
SCALE: 1/32" = 1'-0"





**HUDSON YARDS - PLATFORM**

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NEW YORK, NY

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Architect  
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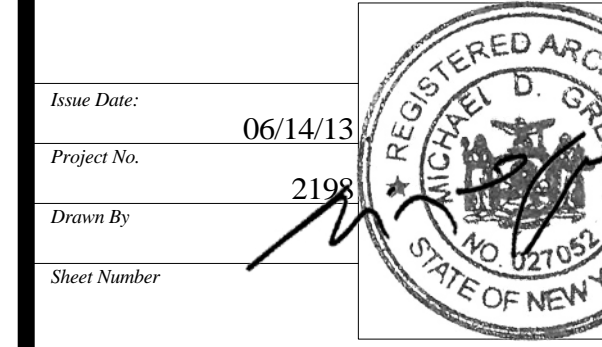
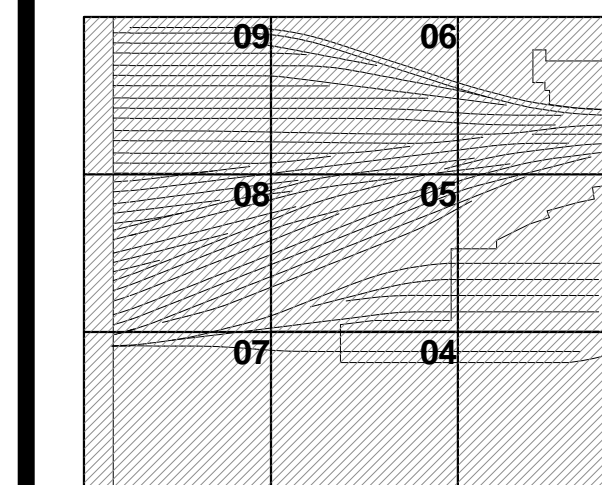
Mechanical, Electrical, Plumbing, Fire Protection  
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LIRR Ventilation  
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New York, NY 10005  
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LIRR Substation  
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New York, NY 10158  
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7. DOB SUBMISSION UPDATE	3/17/2014
8. Issue to FDNY	12/12/2013
9. L.I.R.R. - Pre-Final 100%	11/22/2013
10. L.I.R.R. - 50% M+E SUBMISSION	10/04/2013
11. L.I.R.R. - 60% M+E SUBMISSION	7/12/2013
12. NYC DOB File	6/17/2013
13. L.I.R.R. - 30% M+E SUBMISSION	6/14/2013
14. Occupancy	Final

Rev. Plot



Project No: 2119  
Drawing No: 1

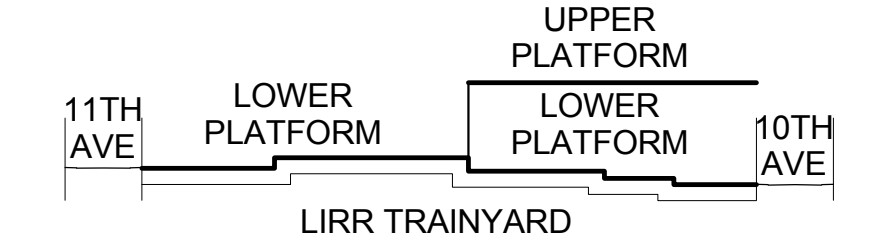
**HYE-PL-EG-800.00**

**MoE/CT/AC SUBSTATION TRACK LEVEL LIFE SAFETY PLAN**

Project Number  
**EG-800.00**

**GENERAL NOTES**

- HATCHED AREA DENOTES PROPOSED NON-LIRR AREA RESERVED FOR TOWER A & RETAIL PODIUM SERVICE P.O.E.s - FOR NYC DOB REVIEW
- HATCHED AREA DENOTES LIRR PLATFORM SCOPE NOT INCLUDED IN THE SCOPE OF MOE/AC/ SUBSTATION/CONTROL TOWER SUBMISSION
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SEE A-020 FOR DIAGRAMMATIC VIEW OF 3-HR SEPARATION AND EXTENT OF LIRR TRAINYARD ENCLOSURE

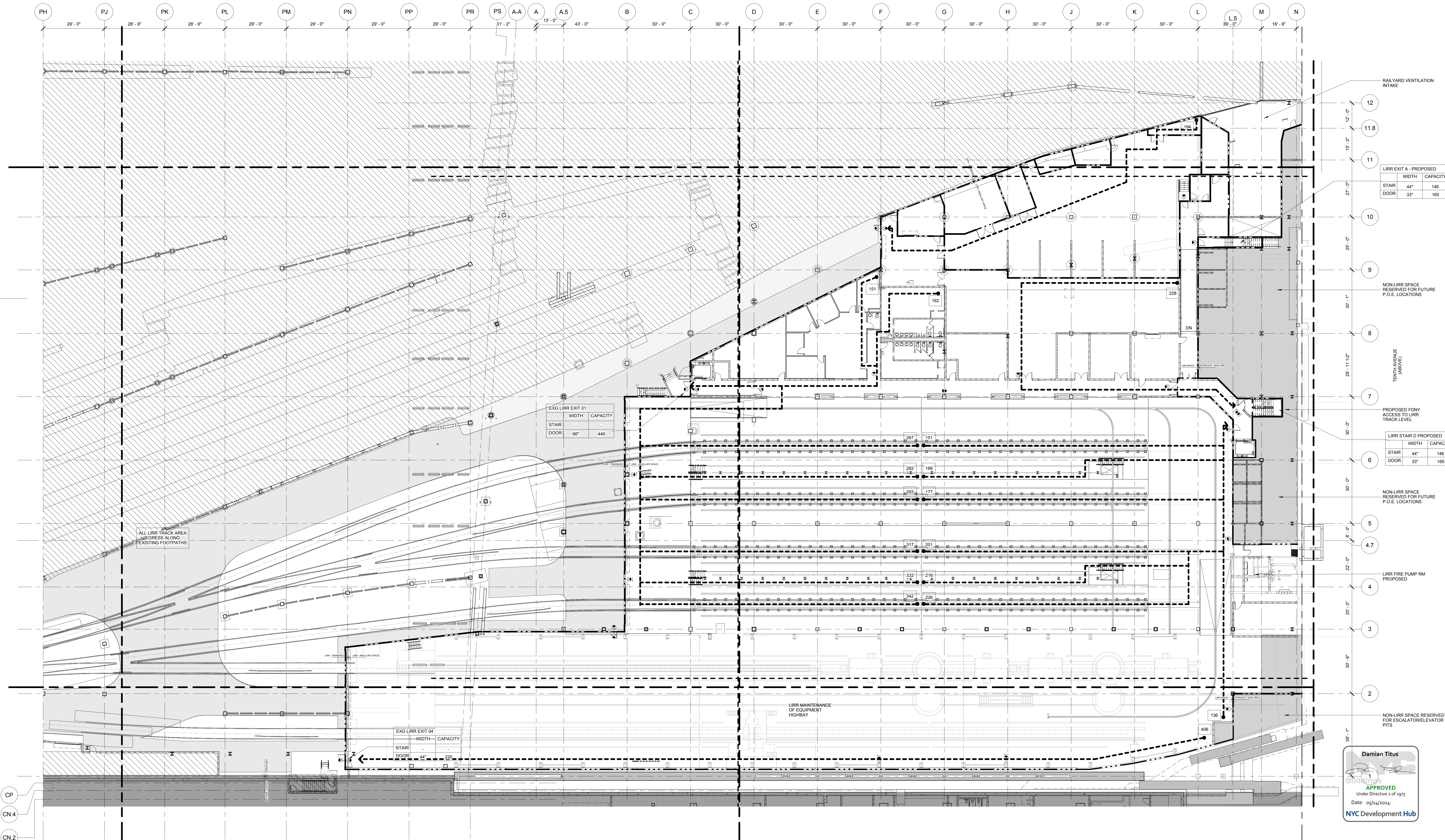
- NOTE  
FOR STAIR LAYOUT INCLUDING PHOTOLUMINESCENT EXIT PATH MARKINGS REFER TO A4-SERIES PLANS & SECTIONS FOR DETAIL

**SYMBOL KEY**

---	1-HOUR RATED WALL
---	2-HOUR RATED WALL
---	3-HOUR RATED WALL
---	TRAVEL DISTANCE

OCUPANCY	OCUPANCY LOAD FACTOR (FT <sup>2</sup> /PER)
AREA (FT <sup>2</sup> )	OCUPANCY LOAD (PERSONS)



EXG LIRR EXIT 01

WIDTH	CAPACITY
STAIR 44'	146
DOOR 66'	440

EXG LIRR EXIT 04

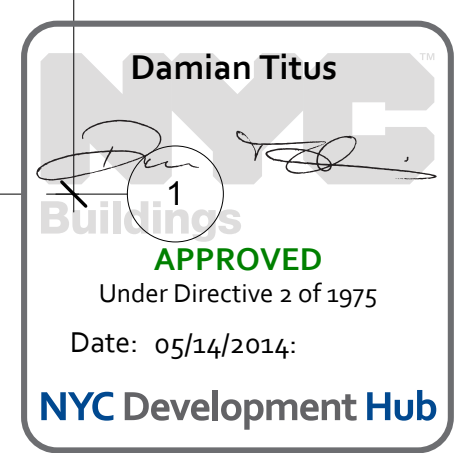
WIDTH	CAPACITY
STAIR 44'	146
DOOR 33'	165

LIRR EXIT A - PROPOSED

WIDTH	CAPACITY
STAIR 44'	146
DOOR 33'	165

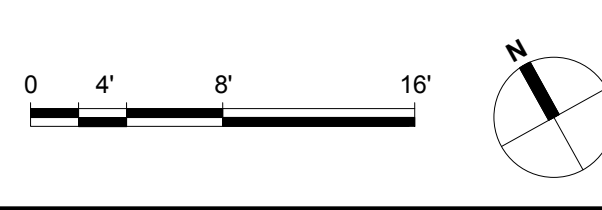
LIRR STAIR D PROPOSED

WIDTH	CAPACITY
STAIR 44'	146
DOOR 33'	165



**APPROVED**  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub

**1 TRACK LEVEL OVERALL PLAN**  
SCALE: 1/16" = 1'-0"





# HUDSON YARDS - PLATFORM

Address:  
530 WEST 33RD STREET  
NEW YORK, NY

Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
TEL: 212.801.1000 FAX: 212.801.1048

Oxford Properties Group  
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New York, NY 10022  
TEL: 212.986.7514 FAX: 212.986.7510

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New York, NY 10017  
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TEL: 212.977.6500 FAX: 212.956.2526

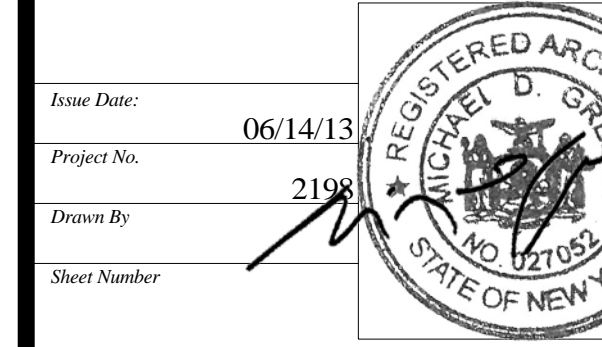
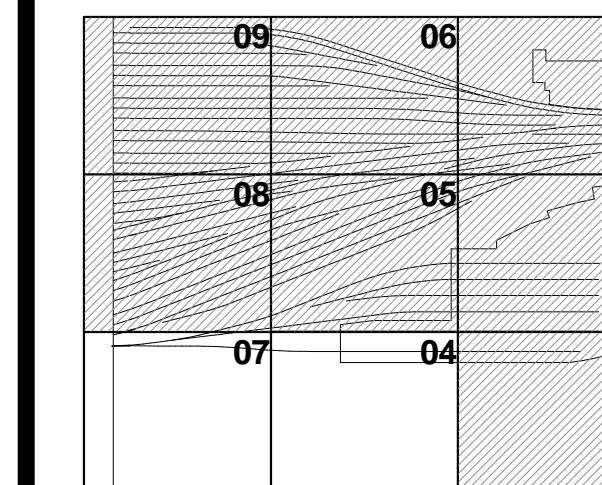
Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
TEL: 917.661.7800 FAX: 917.661.7801

Mechanical, Electrical, Plumbing, Fire Protection  
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New York, NY 10005  
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LIRR Substation  
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605 Third Avenue  
New York, NY 10158  
TEL: 212.973.9200 FAX: 212.682.6172

7. DOB SUBMISSION UPDATE	3/17/2014
8. Issue to FDNY	12/12/2013
9. L.I.R.R. - Pre-Final 100%	11/22/2013
10. M&E PLATFORM SUBMISSION	
11. L.I.R.R. - 90% M&E SUBMISSION	10/04/2013
12. L.I.R.R. - 60% M&E SUBMISSION	7/12/2013
13. NYC DOB File	6/17/2013
14. L.I.R.R. - 30% M&E SUBMISSION	6/14/2013
15. Description	Date



HYE-PL-EG-810.00

M&E/CT/AC SUBSTATION  
CNTRL. TOWER LEVEL  
LIFE SAFETY PLAN

Drawing Title  
EG-810.00

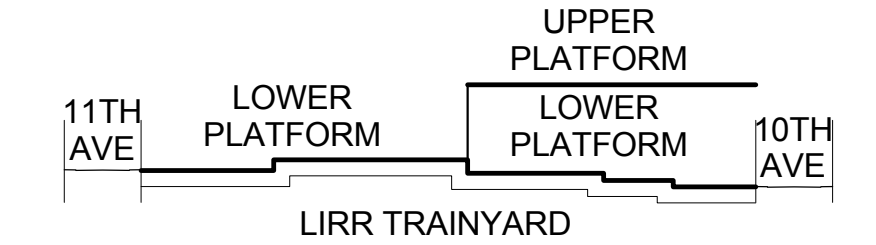
### GENERAL NOTES

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SYMBOL KEY	
	1-HOUR RATED WALL
	2-HOUR RATED WALL
	3-HOUR RATED WALL
	TRAVEL DISTANCE

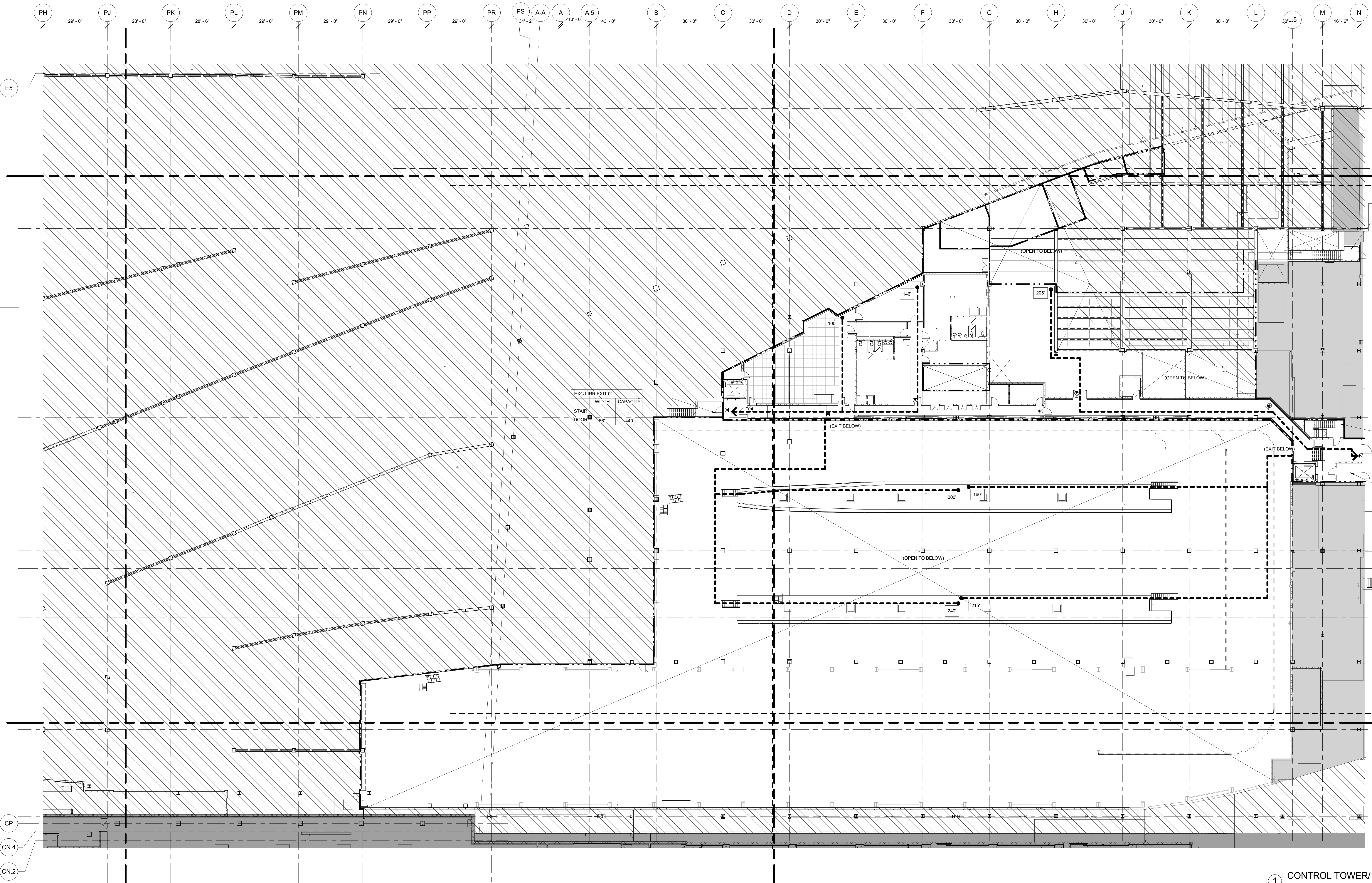
  

OCCUPANCY	OCCUPANCY LOAD FACTOR (FT <sup>2</sup> /PER)
AREA (FT <sup>2</sup> )	OCCUPANCY LOAD (PERSONS)



SEE A-020 FOR DIAGRAMMATIC VIEW OF 3-HR SEPARATION AND EXTENT OF LIRR TRAINYARD ENCLOSURE

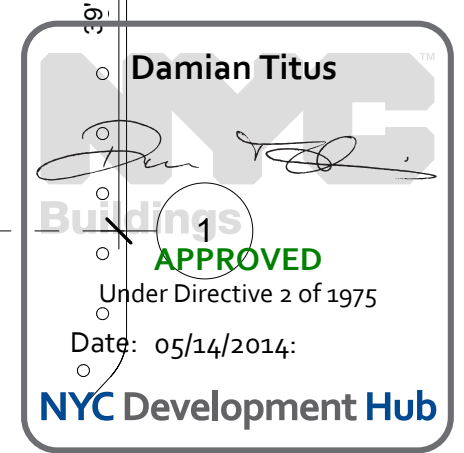
- NOTE  
FOR STAIR LAYOUT INCLUDING PHOTOLUMINESCENT EXIT PATH MARKINGS REFER TO A4-SERIES PLANS & SECTIONS FOR DETAIL



LIRR EXIT A - PROPOSED		
STAIR	WIDTH	CAPACITY
44"	146	146
DOOR	33"	165

LIRR STAIR D - PROPOSED		
STAIR	WIDTH	CAPACITY
44"	146	146
DOOR	33"	165

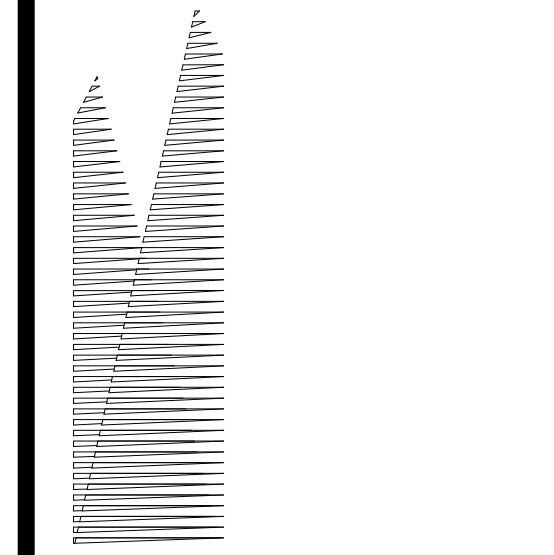
EXISTING LIRR EXIT 01		
STAIR	WIDTH	CAPACITY
DOOR	66"	440



1 CONTROL TOWER/ ENTRY LEVEL OVERALL  
SCALE: 1/16" = 1'-0"







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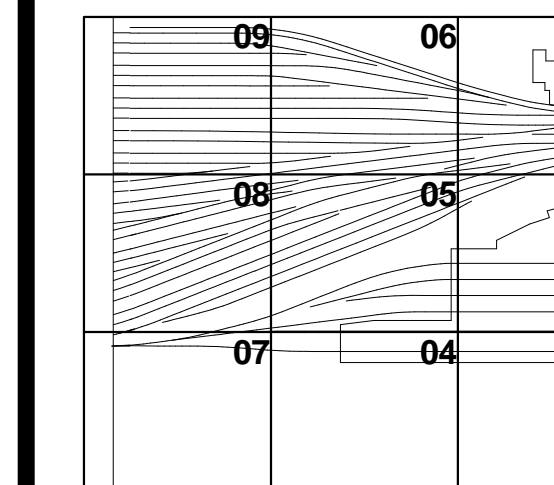
Mechanical, Electrical, Plumbing, Fire Protection  
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LIRR Substation  
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TEL: 212.975.9500 FAX: 212.682.6172

3.	DOB SUBMISSION	10/18/2013
4.	L.I.R.R. - 10% M&E PLATFORM	11/22/2013
5.	L.I.R.R. - 50% M&E SUBMISSION	10/04/2013
6.	L.I.R.R. - 90% SUBMISSION	8/09/2013
7.	L.I.R.R. - 60% M&E SUBMISSION	7/12/2013
8.	L.I.R.R. - 60% M&E SUBMISSION	6/17/2013
9.	L.I.R.R. - 30% M&E SUBMISSION	6/14/2013
10.	L.I.R.R. - 60% SUBMISSION	5/20/2013
11.	L.I.R.R. - 30% SUBMISSION	2/15/2013
12.	Revision	Final

Rev. Plan

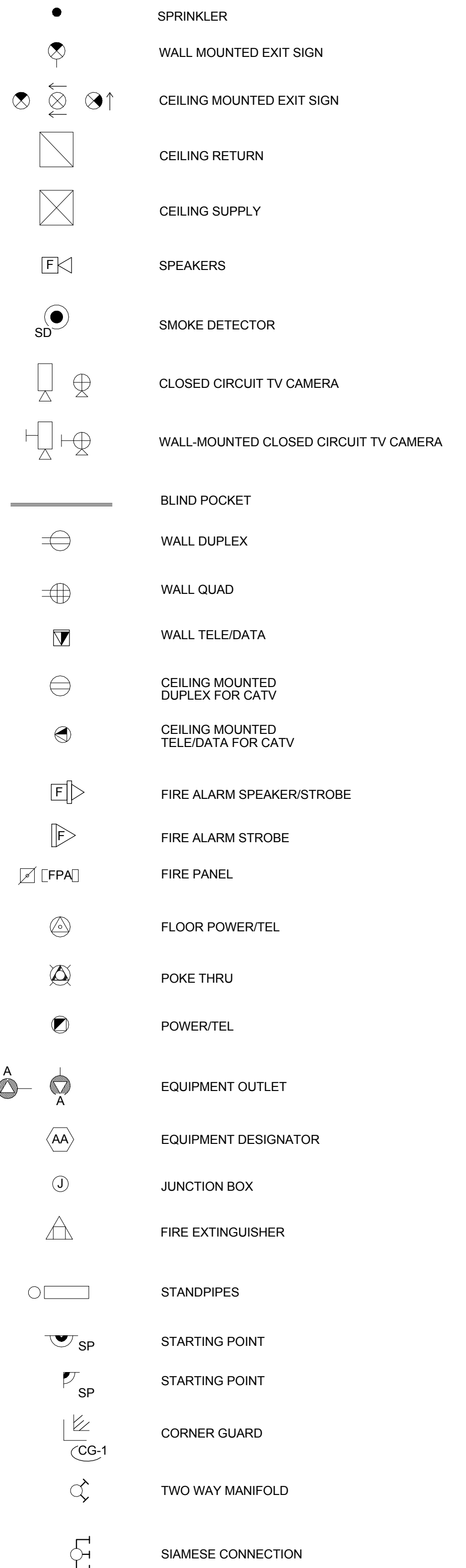


Date: 02/15/13  
Project No: 219  
Drawing No: HYE-PL-A-001.00  
Drawing Title: HYE-PL-A-001.00

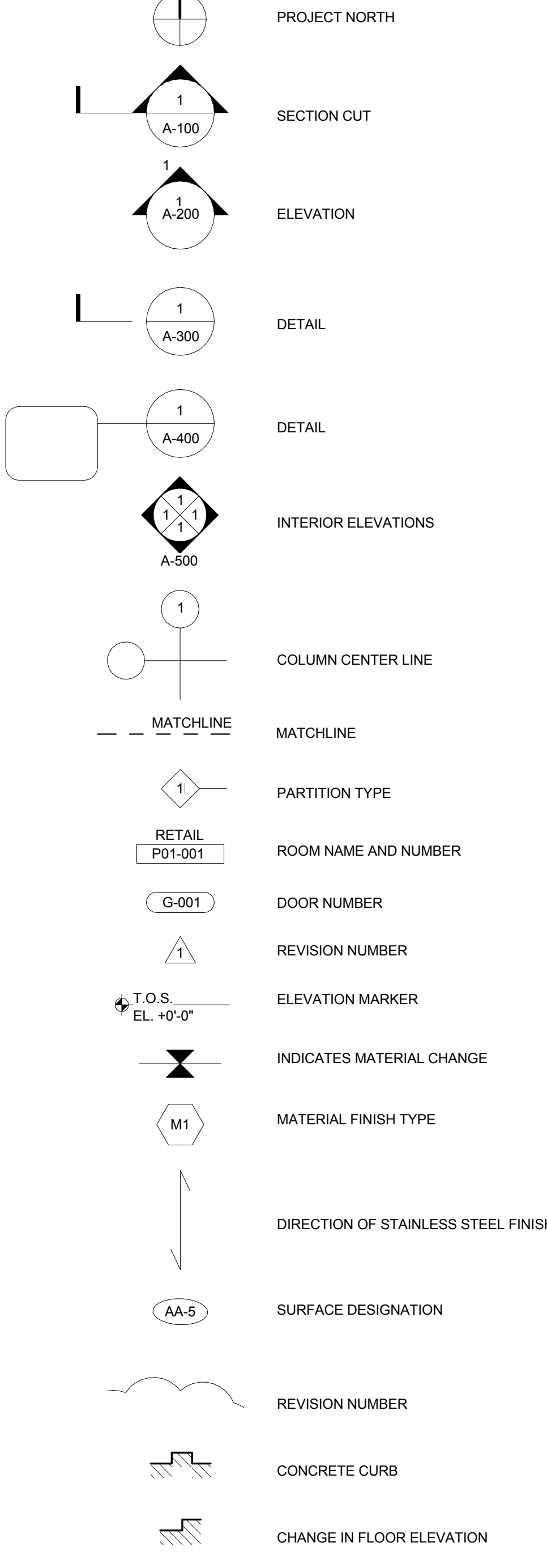
GENERAL NOTES, ABBREVIATIONS, & SYMBOLS

Sheet No: A-001.00

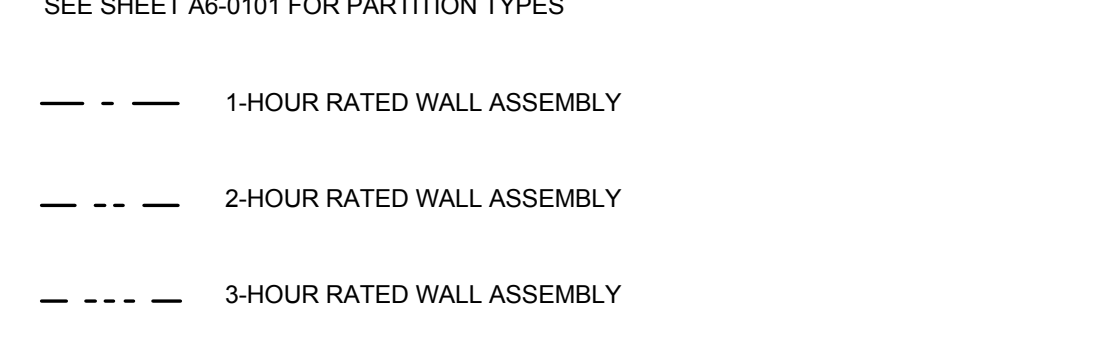
NON-ARCHITECTURAL GRAPHIC SYMBOLS



ARCHITECTURAL GRAPHIC SYMBOLS



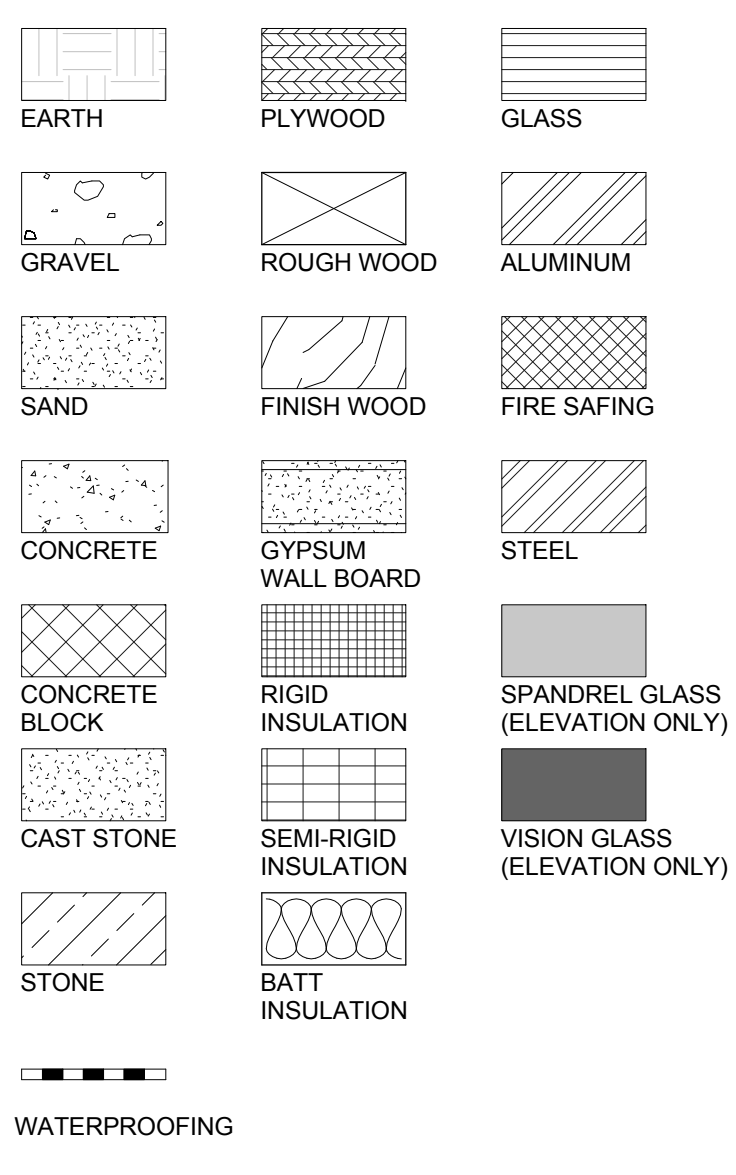
FIRE RATED WALL INDICATIONS



ABBREVIATIONS

S	STR	STRUCTURAL
S	SUSP	SUSPENDED
S	SVIC	SERVICE
S	SE	SMOKE EXHAUST
S	SYM	SYMMETRICAL
T	T	TREAD
T	T.O. STL	TOP OF STEEL
T	T.O.S	TOP OF SLAB
T	TEN	TENANT
T	T.O.F	TOP OF FINISHED FLOOR
T	T.O.P	TOPPING
T	TYP	TYPICAL
U	U.O.N	UNLESS OTHERWISE NOTED
V	V.I.F	VERIFY IN FIELD
V	VERT	VERTICAL
V	VEST	VESTIBULE
V	VL	VOLUME
W	W	WITH
W	W/O	WITHOUT
W	WP	WORKING POINT

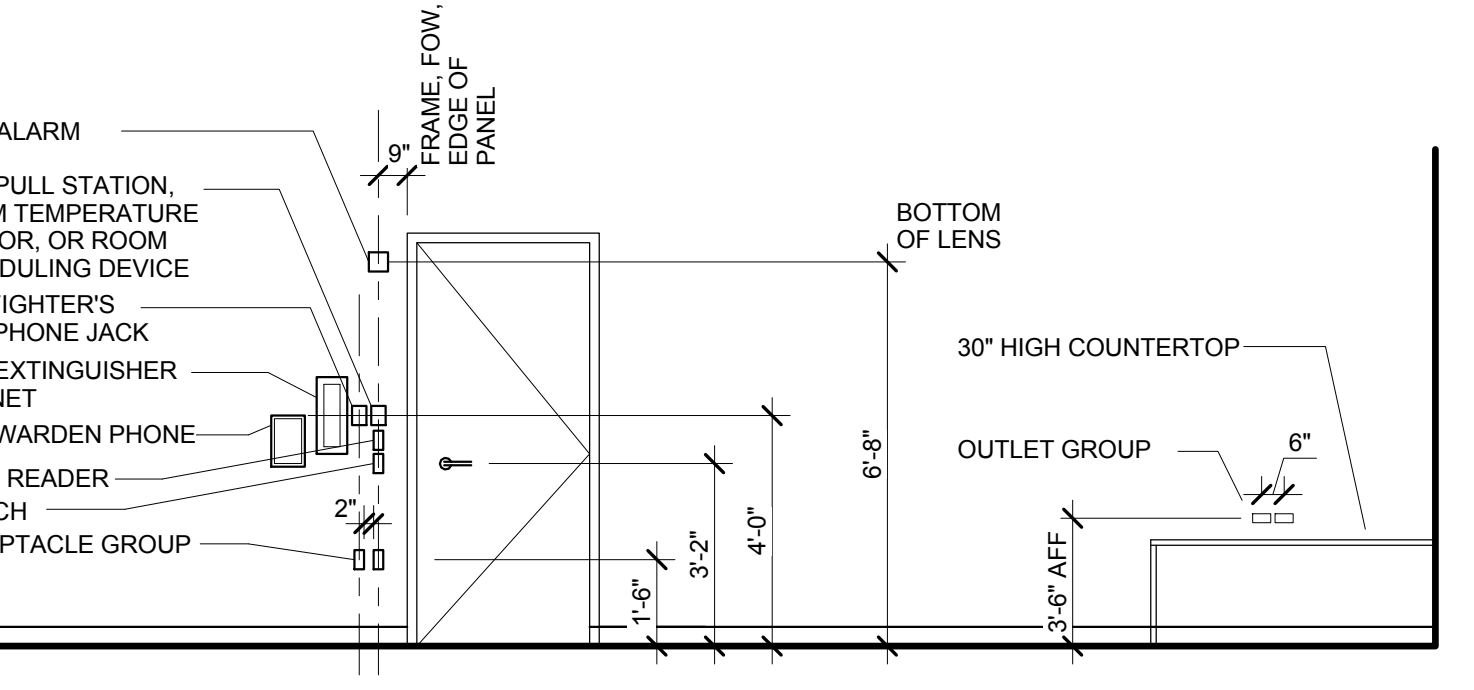
MATERIAL KEY



INTERIOR FINISH KEY (ELEVATION ONLY)



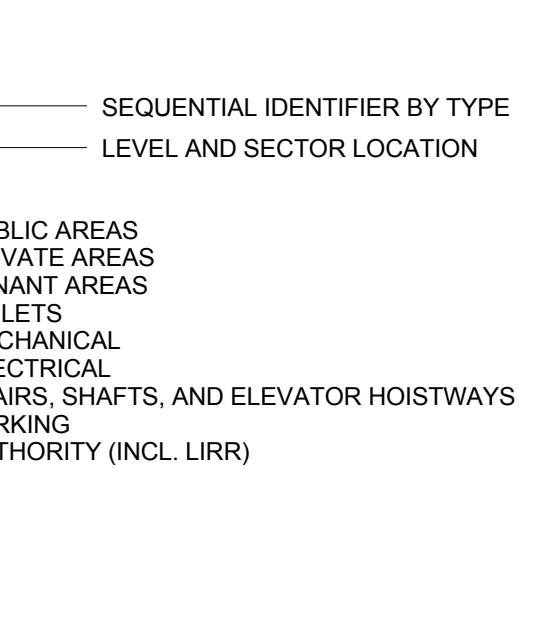
PTE LEGEND:



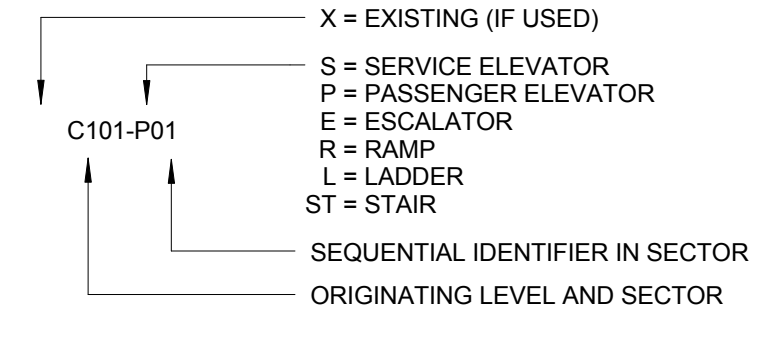
STANDARD MOUNTING HEIGHTS (UNLESS OTHERWISE NOTED ON THE INTERIOR AND EXTERIOR ELEVATIONS) (Not to Scale)

- NOTES: 1. ALWAYS ALIGN VERTICALLY WHEN IN PROXIMITY  
2. SEE ARCHITECTS DRAWINGS FOR PLAN LOCATIONS  
3. SEE A-000 FOR ADA PUSH PLATES AND CARD READERS AT EXTERIOR COLUMNS  
4. ADA PUSHPLATES TO BE MOUNTED 3'-1" A.F.F. TYP. U.N.O.

ROOM OR AREA NAME AND NUMBERING LEGEND



VERTICAL CIRCULATION IDENTIFICATION



- 100 = PUBLIC AREAS  
200 = PRIVATE AREAS  
300 = TENANT AREAS  
400 = TOILETS  
500 = MECHANICAL  
600 = ELECTRICAL  
700 = STAIRS, SHAFTS, AND ELEVATOR HOISTWAYS  
800 = SQUARE FEET  
900 = PARKING  
990 = AUTHORITY (INCL. LIRR)

ABBREVIATIONS

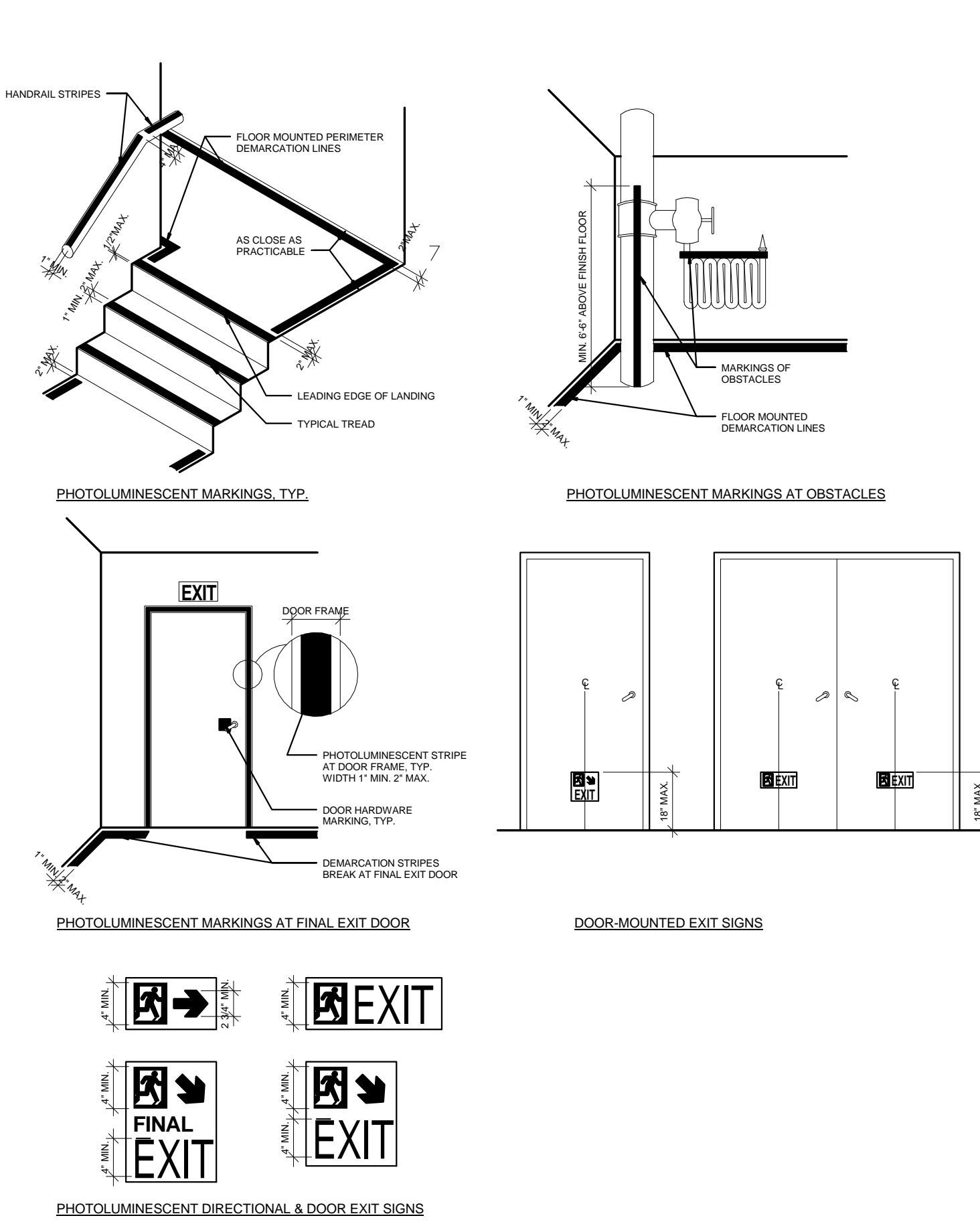
A	A.C.T	ACOUSTICAL CEILING TILE
A	ABV	ABOVE
A	ADOL	ADDITIONAL
A	ADJ	ADJUSTABLE
A	AF	ABOVE FINISHED FLOOR
A	AHU	AIR HANDLING UNIT
A	ALT	ALTERNATE
A	ARCH	ARCHITECTURAL
A	AVG	AVERAGE
A	AXON	AXONOMETRIC
B	B.O	BOTTOM OF
B	BO	BORING
B	BLDG	BUILDING
B	BLDG	BLOCKING
B	BPP	BUILDERS PAVEMENT PLAN
B	BTM	BOTTOM
C	CJ	CONTROL JOINT
C	CL	CENTER LINE
C	CLG	CEILING
C	CLG-HT	CEILING HEIGHT
C	CLS	CLOSET
C	CLR	CLEAR
C	CMU	CONCRETE MASONRY UNIT
C	COL	COLUMN
C	COL L	COLUMN LINE
C	CONC	CONCRETE
C	CONT	CONTIGUOUS
C	CW	CURTAINWALL
D	DEG	DEGREE
D	DEP	DEPARTMENT OF ENVIRONMENTAL PROTECTION
D	DEPT	DEPARTMENT
D	DETL	DETAIL
D	DMG	DIAGONAL
D	DEF	DEFENDER
D	DIV	DIVISION
D	DN	DOWN
D	DOB	DEPARTMENT OF BUILDINGS
D	DMG	DRAWING
E	E.D.S	EDGE OF SLAB
E	EA	EACH
E	EC	ELECTRICAL CLOSET
E	EJ	EXPANSION JOINT
E	ELEC	ELECTRICAL
E	EMER	EMERGENCY
E	EMR	ELEVATOR MACHINE ROOM
E	ENCL	ENCLOSURE
E	ENG.MTL.FAB	ENGINEERED METAL FABRICATION
E	EQ	EQUAL
E	EQPT	EQUIPMENT
E	ESC	ESCALATOR
E	EVTR	ELEVATOR
E	EXG	EXISTING
E	EXP	EXPANDED
E	EXT	EXTERIOR
F	F.F	FINISHED FLOOR
F	F.O.B	FACE OF BUILDING
F	F.O.G	FACE OF GLASS
F	FA	FIRE ALARM
F	FD	FLOOR DRAIN
F	FE	FIRE EXTINGUISHER
F	FEC	FIRE EXTINGUISHER CABINET
F	FLR	FLOOR
F	FNDR	FOUNDATION
F	FDML	FIBERS OF THE HIGH LINE
F	FPS	FIRE PULL STATION
F	FT	FOOT / FEET
F	FTG	FOOTING
F	FLTR	FUTURE
F	FW	FIRE WARDEN PHONE
G	GA	GAUGE
G	GALV	GALVANIZED
G	GC	GENERAL CONTRACTOR
G	GWB	GYPSPUM WALL BOARD
G	GX	GENERAL EXHAUST
H	H.P.	HIGH POINT
H	HM	HOLLOW METAL
H	HORZ	HORIZONTAL
H	HVAC	HEATING, VENTILATING, & AIR CONDITIONING
H	HYDC	HUDSON YARDS DEVELOPMENT CORPORATION
I	IN	INCH / INCHES
I	INCL	INCLUDE
I	INSL	INSULATION
I	INT	INTERIOR
J	JB	JAMB
J	JC	JANITOR'S CLOSET
K	KIT	KITCHEN
K	KX	KITCHEN EXHAUST
L	L.P	LOW POINT
L	LAM	LAMINATED
L	LAV	LAVATORY
L	LSB	LONG ISLAND RAIL ROAD
L	LIRR	LONG ISLAND RAIL ROAD
L	LVR	LOUVER
M	M.O.E	MAINTENANCE OF EQUIPMENT
M	MACH	MACHINE
M	MAINT	MAINTENANCE
M	MANU	MANUFACTURED
M	MATL	MATERIAL
M	MAX	MAXIMUM
M	MECH	MECHANICAL
M	MEZZ	MEZZANINE
M	MGMT	MANAGEMENT
M	MH	MANHOLE
M	MM	MINIMUM
M	MISC	MISCELLANEOUS
M	MTD	MOUNTED
M	MTL	METAL
M	MULL	MULLION
N	NIC	NOT IN CONTRACT
N	NO	NUMBER
N	NOM	NOMINAL
N	NTS	NOT TO SCALE
O	O.C	ON CENTER
O	O.T.B	OPEN TO BELOW
O	OA	OUTSIDE AIR
O	OAI	OUTSIDE AIR INTAKE
O	OPNG	OPENING
O	OPP	OPPOSITE
O	OPP.HAND	OPPOSITE HAND
O	OVHD	OVERHEAD
P	PA	PUBLIC ADDRESS
P	PART	PARTIAL
P	PASS	PASSENGER
P	PERF	PERFORATED
P	PL	PROPERTY LINE
P	PLMBG	PLUMBING
P	PLT	PLATE
P	PNL	PANEL
P	POL	POLISHED
P	PSF	POUNDS PER SQUARE FOOT
P	PSI	POUNDS PER SQUARE INCH
P	PTD	PAINTED
P	PTN	PARTITION
Q	QTY	QUANTITY
R	R	RISER
R	RO	ROUGH OPENING
R	RA	RETURN AIR
R	RAD	RADIUS
R	RCP	REFLECTED CEILING PLAN
R	REF	REFER TO
R	REIN	REINFORCED
R	RM	ROOM
S	S.S.	STAINLESS STEEL
S	SA	SUPPLY AIR
S	SCHED	SCHEDULE
S	SHI	SHEET
S	SMB	SHOULDER
S	SOE	SUPPORT OF EXCAVATION
S	SP	STAIR PRESSURIZATION
S	SPEC	SPECIFICATION
S	SO.FT	SQUARE FEET
S	STC	SOUND TRANSMISSION CLASS
S	STR	STANDARD
S	STL	STEEL
S	STOR	STORAGE



APPLICABLE ADA DIAGRAMS: PROPOSED WORK TO APPLY WITH APPLICABLE REQUIREMENTS OF ANSIS 117.1-2003 AND THE AMERICANS WITH DISABILITIES ACT (ADA), AS PER DIAGRAMS BELOW.



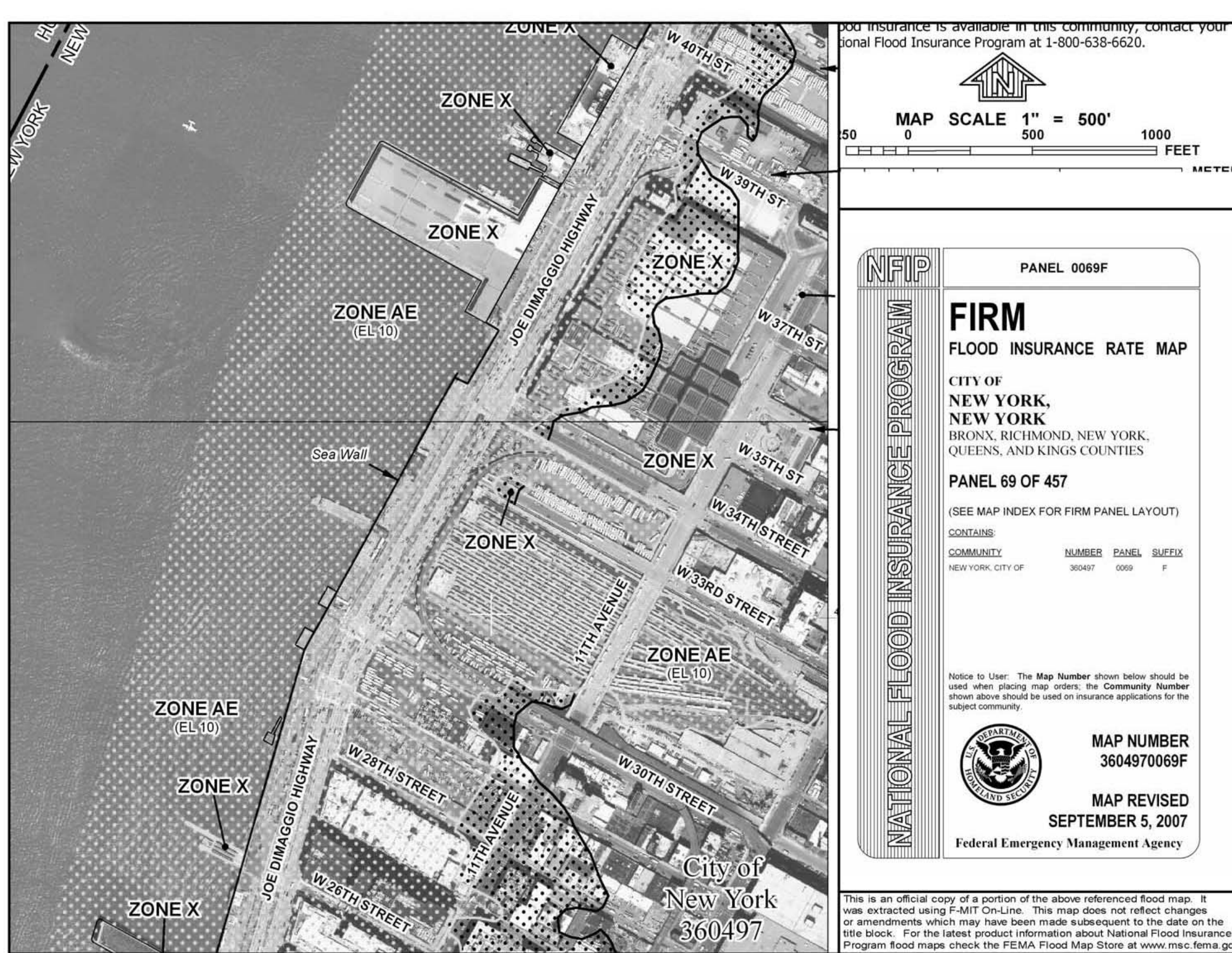
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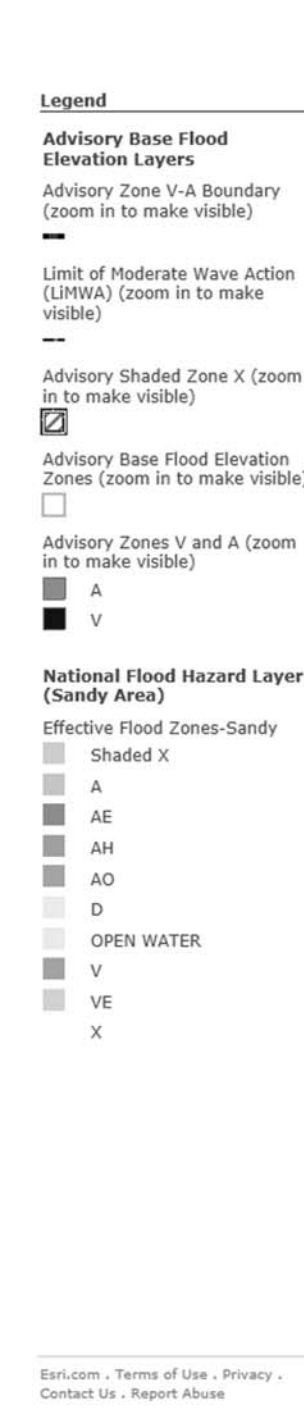
HISTORIC LANDMARK STRUCTURES: PROPOSED WORK IS NOT WITHIN 90' OF ANY ADJACENT HISTORIC LANDMARK STRUCTURES. TYPN 1089 THEREFORE NOT APPLICABLE. LANDMARK MAP SHOWN BELOW.



SPECIAL FLOOD HAZARD AREAS: AS PER LL 5813. PROPOSED WORK IS OUTSIDE OF SPECIAL FLOOD AREAS. TYPN 104 THEREFORE NOT APPLICABLE. FEMA MAP SHOWN BELOW.



FLOOD MAPS NTS



**NYC DEPARTMENT OF BUILDINGS NOTES**

**NOTIFICATION OF THE DEPARTMENT:** NOTIFICATION TO BE PROVIDED TO DEPARTMENT OF BUILDINGS 24-HOURS PRIOR TO COMMENCEMENT OF EARTHWORK, AS PER BC 3304.3.1.

**NOTIFICATION OF ADJACENT BUILDING OWNERS:** WRITTEN NOTIFICATION TO BE PROVIDED TO ADJACENT BUILDING OWNERS NOT LESS THAN 10 DAYS PRIOR TO COMMENCEMENT OF EXCAVATION WORK, AS PER BC 3304.3.2.

**DUTIES AND POWERS OF COMMISSIONER OF BUILDINGS:** AUTHORITY TO RENDER INTERPRETATIONS AND TO ADOPT RULES ESTABLISHING POLICIES AND PROCEDURES HELD BY THE COMMISSIONER OF BUILDINGS, AS PER BC 104.

**ROBENT PROOFING:** PROPOSED WORK TO BE COMPLIANT WITH ROBENT PROOFING REQUIREMENTS, AS PER BC APPENDIX F 101.

**HIGH-RISE BUILDINGS:** DESIGN OF ELEVATORS TO BE COMPLIANT WITH ACCESSIBLE MEANS OF EGRESS REQUIREMENTS, AS PER BC 1907.2.1 AND BC 1109.6.

**STAIRWAY DOOR OPERATION:** STAIRWAY DOOR OPERATION AND STAIRWAY COMMUNICATIONS SYSTEM TO BE PROVIDED, AS PER BC 403.12 AND BC 403.12.1.

**SMOKE PROOF EXIT ENCLOSURES:** DESIGN OF ALL EXIT STAIRS TO BE COMPLIANT WITH BC 403.13.

**IMPACT RESISTANT STAIR ENCLOSURES:** MATERIALS, ASSEMBLY, AND INSTALLATION OF ALL EXIT STAIRS TO BE COMPLIANT WITH BC 403.15. SEE PARTITION SCHEDULE FOR FURTHER INFORMATION.

**EXIT PATH MARKINGS:** PHOTOLUMINESCENT EXIT PATH MARKINGS TO BE PROVIDED AT ALL EXIT DOORS, EXIT PASSAGEWAYS, AND EXIT STAIRS, AS PER BC 403.16 AND BC 1028.11.

**STRUCTURAL DESIGN:** BUILDING, STRUCTURES, AND PARTS THEREOF ARE DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH STRENGTH DESIGN, LOAD AND RESISTANCE FACTOR DESIGN, ALLOWABLE STRESS DESIGN, EMPIRICAL DESIGN, OR CONVENTIONAL CONSTRUCTION METHODS, AS PER REQUIREMENTS OF 2008 NYC BUILDING CODE, BC 1604. REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.

**MECHANICAL EQUIPMENT AND BUILDING SYSTEMS:** MECHANICAL EQUIPMENT SHALL BE CONSTRUCTED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THE 2008 NYC MECHANICAL CODE AND 2008 NYC FUEL GAS CODE, AS PER BC 2801.1. REFER TO MECHANICAL DRAWINGS FOR FURTHER INFORMATION.

**PLUMBING SYSTEMS:** PLUMBING SYSTEM AND EQUIPMENT SHALL BE CONSTRUCTED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THE 2008 NYC BUILDING CODE, AS PER BC 2901.1. REFER TO PLUMBING DRAWINGS FOR FURTHER INFORMATION.

**SOILS AND FOUNDATIONS:** BUILDING AND FOUNDATION SYSTEM DESIGNED AS PER REQUIREMENTS OF BC 1801.

**FOOTINGS AND FOUNDATIONS:** FOOTINGS AND FOUNDATIONS DESIGNED AS PER REQUIREMENTS OF BC 1805.

**PLUMBING SYSTEMS:** PLUMBING SYSTEMS DESIGNED AS PER REQUIREMENTS OF BC 2901 AND BC 401.

**SEISMIC DESIGN PROVISIONS:** CONCRETE COMPONENTS THAT RESIST SEISMIC FORCES DESIGNED AS PER REQUIREMENTS OF BC 1910 AND LL 1795.

**SEPARATION OF USE:** PROJECT IS DESIGNED IN ACCORDANCE WITH THE NON-SEPARATED MIX USE REQUIREMENTS OF BC 506.2.3.

**TRANSIT AUTHORITY APPROVAL:** PROJECT IS WITHIN 200' OF TRANSIT AUTHORITY.

**APPROVAL BY THE NEW YORK CITY BUILDING DEPARTMENT:** SHALL NOT RELIEVE OR EXEMPT THE DESIGN FROM ANY REQUIREMENTS OF THE RELEVANT TRANSIT AUTHORITIES.

SPECIAL INSPECTIONS	CODE/SECTION	PROGRESS INSPECTIONS	CODE/SECTION
FLOOD ZONE COMPLIANCE	BC G105	FIRE-RESISTANT RATED CONSTRUCTION	BC 109.3.4
SPRAYED FIRE RESISTANT MATERIALS	BC 1704.11	ENERGY CODE COMPLIANCE INSPECTION	BC 109.3.5
FIRESTOP DRAFTER, FIREBLOCK SYSTEMS	BC 1704.25	INSULATION PLACEMENT AND R-VALUES	RCNY 5000-01 (IA2), (IA1)
STRUCTURAL STEEL - WELDING	BC 1704.3.1	FENESTRATION THERMAL VALUES AND RATINGS	RCNY 5000-01 (IA3), (IA1)
STRUCTURAL STEEL - ERECTION AND BOLTING	BC 1704.3.2, BC 1704.3.4	FENESTRATION RATINGS FOR AIR LEAKAGE	RCNY 5000-01 (IA4), (IA1)
CONCRETE CAST IN PLACE (IT SITE INSPECTION OF PLACEMENT)	BC 1704.4	FENESTRATION AREAS	RCNY 5000-01 (IA5), (IA1)
CONCRETE PRECAST MASONRY	BC 1704.5	AIR SEALING AND INSULATION - VISUAL DAMPERS INTEGRATED TO BUILDING ENVELOPE	RCNY 5000-01 (IA6), (IA2)
SOILS - SITE PREPARATION	BC 1704.7.1	HVAC AND SERVICE WATER HEATING EQUIPMENT	RCNY 5000-01 (IB3), (IB8)
SOILS - FILL PLACEMENT AND IN-PLACE DENSITY	BC 1704.7.2	HVAC AND SERVICE WATER HEATING SYSTEM CONTROLS	RCNY 5000-01 (IB4), (IB4)
SOILS - INVESTIGATIONS (BORING/TEST PITS)	BC 1704.7.4, TR-4	DUCT PLENUM AND PIPING INSULATION AND SEALING	RCNY 5000-01 (IB5), (IB8)
SOIL FOUNDATION AND DRILLED PIER INSTALLATION	BC 1704.8, TR-5	ELECTRICAL METERING	RCNY 5000-01 (IC1), (IC1)
EXCAVATION - SHEETING, SHORING, BRACING	BC 1704.19	INTERIOR LIGHTING POWER	RCNY 5000-01 (IC2), (IC2)
CONCRETE TEST COULDS	BC 1805.4T, TR-2	LIGHTING CONTROLS	RCNY 5000-01 (IC3), (IC1)
CONCRETE DESIGN MIX	BC 1805.3, TR-3	EXIT SIGNS	RCNY 5000-01 (IC4)
MECHANICAL SYSTEMS	BC 1704.15	ELECTRICAL MOTORS	RCNY 5000-01 (IC5)
SITE STORM DRAINAGE DISPOSAL & DETENTION SYSTEM	BC 1704.20	MAINTENANCE INFORMATION	RCNY 5000-01 (ID1), (ID2)
POST-INSTALLED ANCHORS		PERMANENT CERTIFICATE	RCNY 5000-01 (ID3)

**LIFE SAFETY NOTES**

**APPLICABLE CODES FOR ALL NON-LIRR SPACES**

2008 NEW YORK CITY BUILDING CODE  
 2008 NEW YORK CITY MECHANICAL CODE  
 2008 NEW YORK CITY FIRE CODE  
 2008 NEW YORK CITY PLUMBING CODE  
 2011 NEW YORK ELECTRICAL CODE (BASED ON 2005 NEC)  
 AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG)  
 2003 ICC/ANSI 117.1

**OCCUPANCY GROUPS**  
 U - MISCELLANEOUS

THE BUILDING WILL BE CONSTRUCTED USING THE NONSEPARATED MIXED USE PROVISIONS OUTLINED IN SECTIONS 506.2.2 OF THE BUILDING CODE.

**TABLE 503 CONSTRUCTION CLASSIFICATION**

CONSTRUCTION TYPE:	TYPE IA
AUTOMATIC SPRINKLERS:	YES

IN ACCORDANCE WITH NONSEPARATED MIXED USE PROVISIONS OF THE BUILDING CODE, THE HEIGHT AND AREA OF THE BUILDING MUST COMPLY WITH THE MOST RESTRICTIVE HEIGHT AND AREA REQUIREMENTS FOR THE OCCUPANCY CLASSIFICATIONS OF THE BUILDING AND THE CONSTRUCTION TYPE.

ALLOWABLE BUILDING AREA: UNLIMITED  
 ALLOWABLE BUILDING HEIGHT: UNLIMITED

**CONSTRUCTION REQUIREMENTS**

FIRE RESISTANCE OF STRUCTURAL ELEMENTS MUST BE IN ACCORDANCE WITH THE FOLLOWING:

STRUCTURAL ELEMENT	TABLE 601 & 602	
	FIRE RESISTANCE RATING (IN HOURS), TYPE IA	
EXTERIOR BEARING WALLS	3	
- SUPPORTING MORE THAN ONE LEVEL	-	
EXTERIOR NON LOAD - BEARING WALLS	2	
- FIRE SEPARATION 0 TO 5 FEET	1	
- FIRE SEPARATION 5 TO 30 FEET	0	
- FIRE SEPARATION >30 FEET	0	
INTERIOR BEARING WALLS, COLUMNS, AND STRUCTURAL FRAME	-	
- SUPPORTING ONE FLOOR OR MORE	3	
- SUPPORTING A ROOF ONLY	2	
ENCLOSURE OF EXIT PASSAGEWAYS, STAIRS, AND OTHER VERTICAL SHAFTS	2	
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	2	
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	1.5	
INTERIOR CORRIDORS	0	
PUBLIC/MULTI-TENANT CORRIDORS	0	
- A.M.S.	1	
- B	1*	

1. EXTERIOR FIRE SEPARATIONS ARE MEASURED PERPENDICULARLY FROM THE BUILDING FACE TO THE CLOSEST INTERIOR LOT LINE, TO THE CENTERLINE OF A STREET OR PUBLIC WAY, OR TO AN IMAGINARY LINE BETWEEN TWO BUILDINGS ON THE SAME PROPERTY.  
 2. EXCEPT IN M AND S1 OCCUPANCIES, FIRE PROTECTION OF STRUCTURAL MEMBERS ARE NOT REQUIRED, INCLUDING ROOF FRAMING AND DECKING WHERE EVERY PART OF THE ROOF CONSTRUCTION IS 20 FEET OR MORE ABOVE THE ROOF IMMEDIATELY BELOW (TABLE 601).  
 3. AN INTERIOR CORRIDOR IS DEFINED AS A CORRIDOR THAT SERVES ONLY ONE TENANT.  
 4. NOT REQUIRED IN FULLY SPRINKLERED HIGH-RISE BUILDINGS IN GROUP B OCCUPANCIES WHERE THE BUILDING IS EQUIPPED WITH SMOKEPROOF ENCLOSURES.

CLASSIFICATION OF OPENING	FIRE SEPARATION DISTANCE (FEET)* (TABLE 704.8)				
	0-3	GREATER THAN 3 TO 5	GREATER THAN 5 TO 10	GREATER THAN 10 TO 15	GREATER THAN 15 TO 20
PROTECTED	15%	25%	45%	75%	NO LIMIT
NOT PERMITTED					

1. THE MAXIMUM ALLOWABLE OPENING AREA OF UNPROTECTED OPENINGS IS EQUAL TO THAT PERMITTED FOR PROTECTED OPENINGS IN FULLY SPRINKLERED BUILDINGS.  
 2. UNLIMITED UNPROTECTED OPENINGS ARE PERMITTED WHERE EXTERIOR BEARING WALLS, EXTERIOR NON BEARING WALLS, AND EXTERIOR STRUCTURAL FRAME ARE NOT REQUIRED TO HAVE A FIRE RESISTANCE RATING.

**INTERIOR FINISH**  
 ALL WALL AND CEILING INTERIOR FINISH MATERIALS MUST BE CLASSIFIED IN ACCORDANCE WITH ASTM-E84 TEST FOR SURFACE BURNING CHARACTERISTICS OF CONSTRUCTION MATERIALS AS FOLLOWS (803.1):

CLASS	SMOKE	FLAME
CLASS A	0-25	0-15
CLASS B	0-25	0-20
CLASS C	0-25	0-25

THE MAXIMUM CLASS INTERIOR FINISH MATERIAL PERMITTED FOR USE ON WALLS AND CEILINGS IN THE FULLY SPRINKLERED BUILDING MUST BE LIMITED AS FOLLOWS:

USE	EXITS	EXIT ACCESS	ROOMS AND SPACES
S	B	C	C
A-2, A-3	B	B	C'
B, M	B	B	B

\* LOBBY AREAS IN A-2, A-3 OCCUPANCIES MUST NOT BE LESS THAN CLASS B

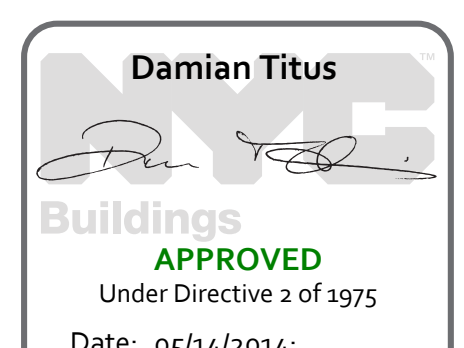
**MEANS OF EGRESS**  
 OCCUPANT LOAD (TABLE 1004.1.2)

USE	OCCUPANT LOAD FACTOR
OFFICES	100 GROSS
ASSEMBLY	5 NET
- UNCONCENTRATED (TABLES & CHAIRS), DINING	
- CONCENTRATED (NON-FIXED CHAIRS)	
- STANDING ROOM	
RETAIL	-
- BASEMENT AND GRADE	30 GROSS
- ALL OTHER FLOORS	60 GROSS
PARKING	200 GROSS
KITCHEN	200 GROSS
STORAGE AND MECHANICAL EQUIPMENT ROOMS	300 GROSS

**EXIT CAPACITY (TABLE 1005.1)**

EXIT CAPACITIES	
HORIZONTAL INCHES/OCC	0.2
VERTICAL INCHES/O CC	0.3

**EXIT DOORS**  
 ALL EXIT DOORS MUST SWING IN THE DIRECTION OF TRAVEL WHERE SERVING AN OCCUPANT LOAD OF 50 OR MORE



**HUDSON YARDS - PLATFORM**

Address:  
 530 WEST 33RD STREET  
 NEW YORK, NY

Client:  
 Related Companies  
 60 Columbus Circle  
 New York, NY 10023  
 TEL: 212.801.1000 FAX: 212.801.1048

Oxford Properties Group  
 320 Park Avenue, 17th Floor  
 New York, NY 10022  
 TEL: 212.986.7514 FAX: 212.986.7510

Construction Manager:  
 Tishman Construction Corporation  
 100 Broadway, 50th Floor  
 New York, NY 10017  
 TEL: 212.708.3600

Architect:  
 Kohn Pedersen Fox Associates  
 PC Architects & Planning Consultants  
 11 West 42nd Street  
 New York, New York 10036  
 New York, NY 10010  
 TEL: 212.977.6500 FAX: 212.956.2526

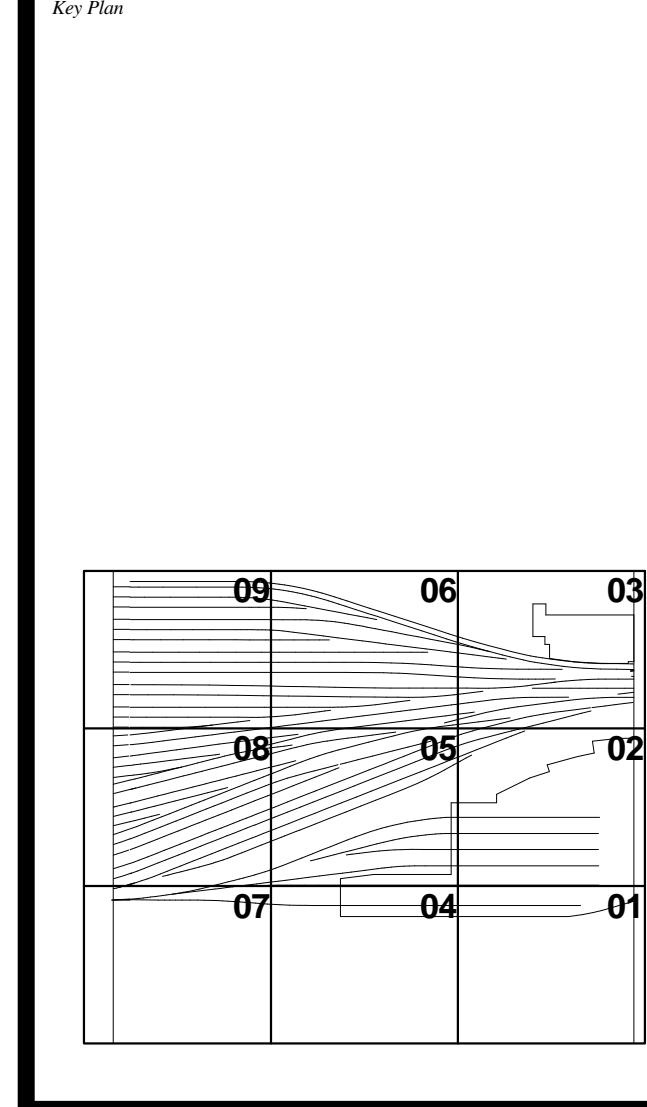
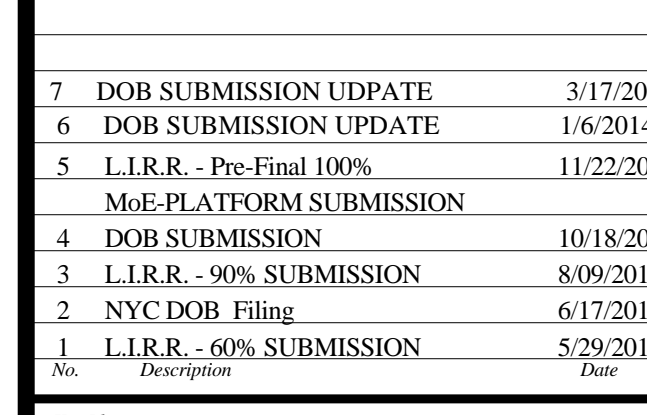
Structural Engineer:  
 Thornton Tomasetti, Inc.  
 51 Madison Avenue  
 New York, NY 10010  
 TEL: 917.661.7800 FAX: 917.661.7801

Mechanical, Electrical, Plumbing, Fire Protection:  
 Parsons Transportation Group  
 100 Broadway  
 New York, NY 10005  
 TEL: 212.266.8300 FAX: 212.571.6825

LIRR Ventilation:  
 One Arup & Partners P.C.  
 77 West Street  
 New York, NY 10005  
 212.896.3000

LIRR Substation:  
 AECOM  
 605 Third Avenue  
 New York, NY 10158  
 TEL: 212.973.9500 FAX: 212.682.6172

NO.	DESCRIPTION	DATE
1	DOB SUBMISSION UPDATE	3/17/2014
2	DOB SUBMISSION UPDATE	1/6/2014
3	L.I.R.R. - Pre-Final 100%	11/22/2013
4	M.E. PLATFORM SUBMISSION	10/18/2013
5	DOB SUBMISSION	8/29/2013
6	NYC DOB Final	6/17/2013
7	L.I.R.R. - 60% SUBMISSION	5/29/2013
8	Revisions	Date



Date: 2/15/2013  
 Project No: 219  
 Drawn By: [Signature]  
 Sheet Number: [Signature]  
 Drawing File: [Signature]

**HYE-PL-A-002.00**

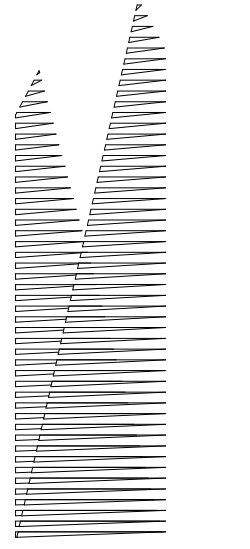
**BUILDING DEPARTMENT NOTES & FEM A MAP**

Drawn By: [Signature]  
**A-002.00**



**HUDSON YARDS -  
PLATFORM**

Address:  
530 WEST 33RD STREET  
NEW YORK, NY



*Client*  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
TEL: 212.801.1000 FAX: 212.801.1048

Oxford Properties Group  
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New York, NY 10022  
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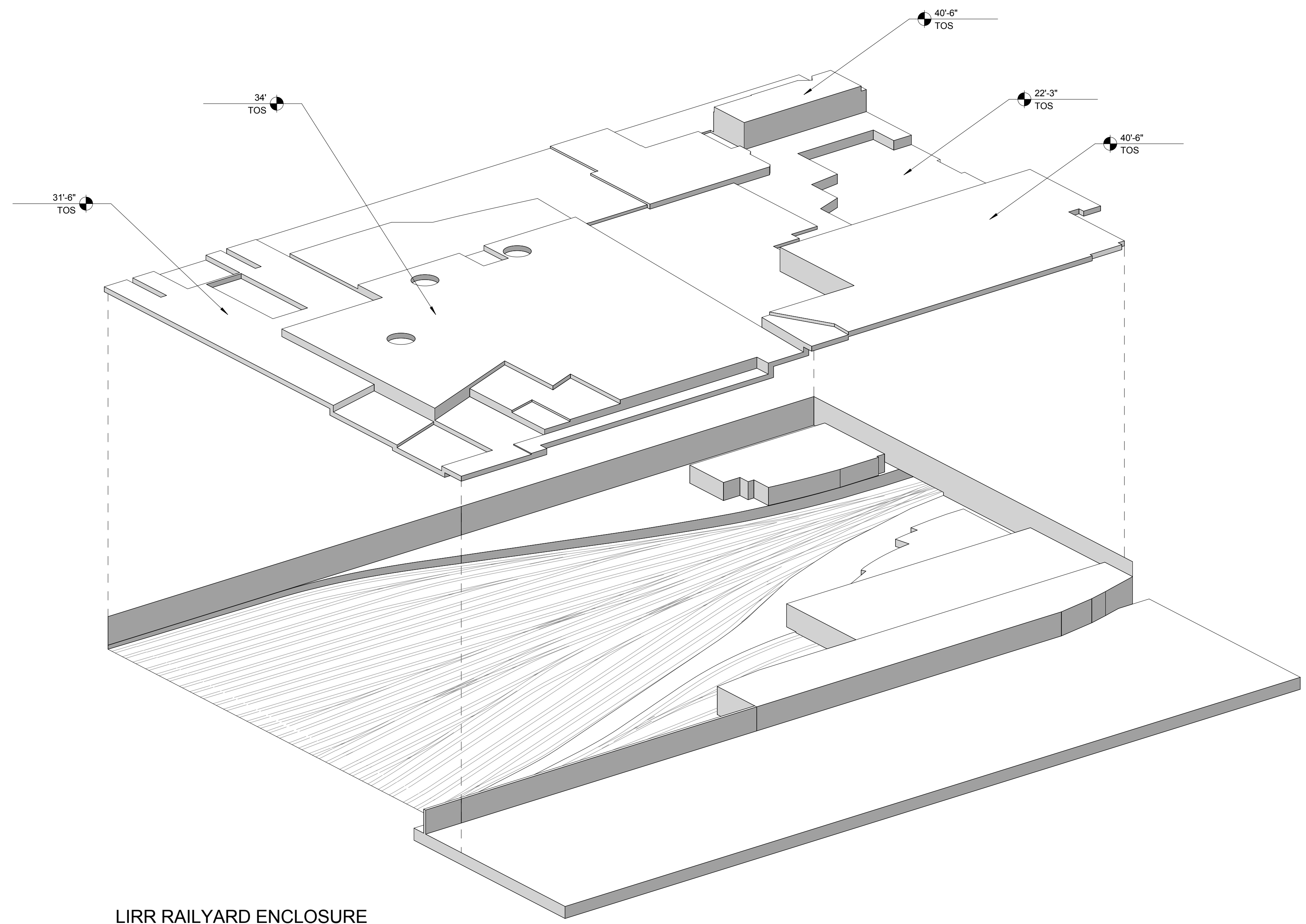
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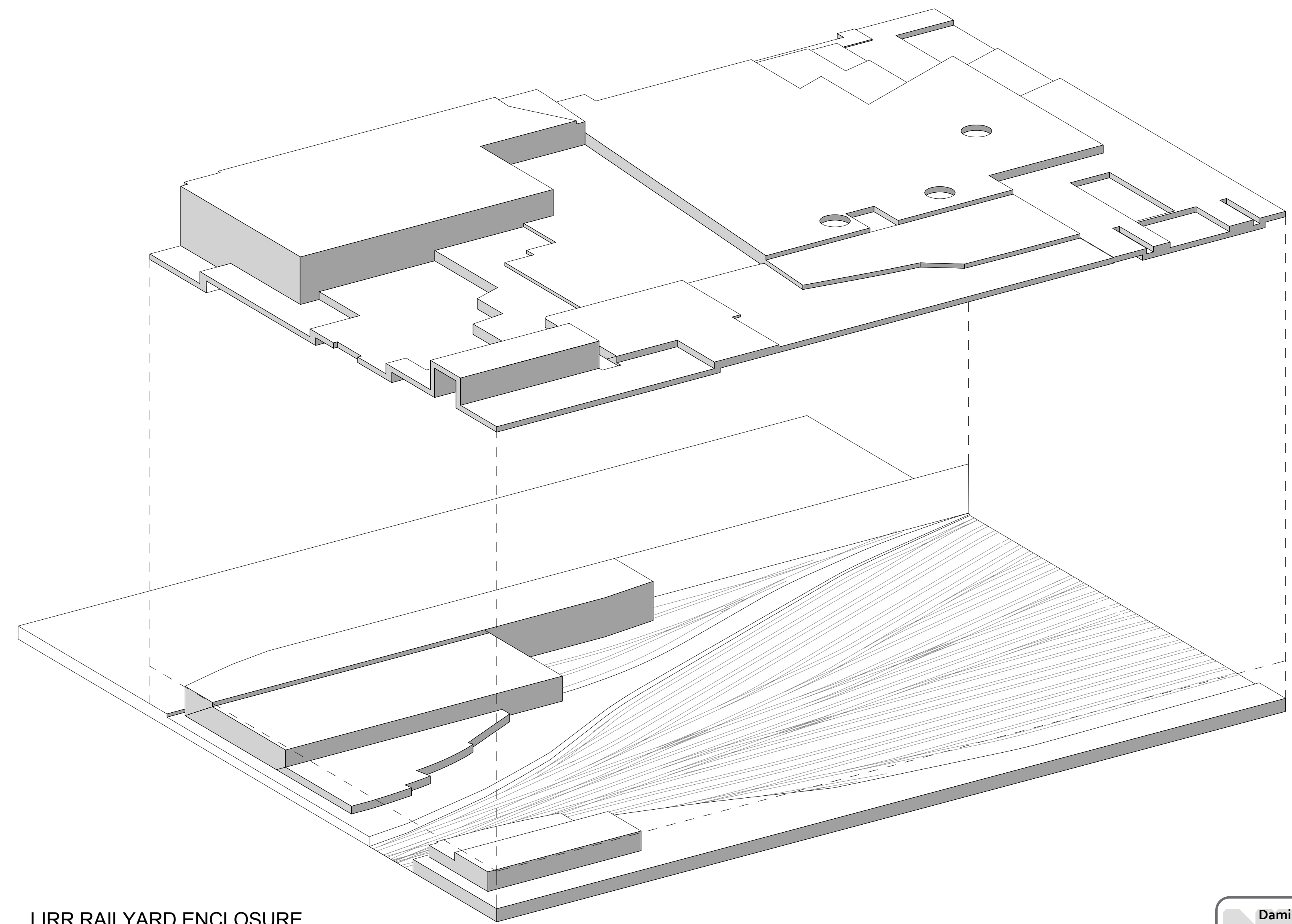
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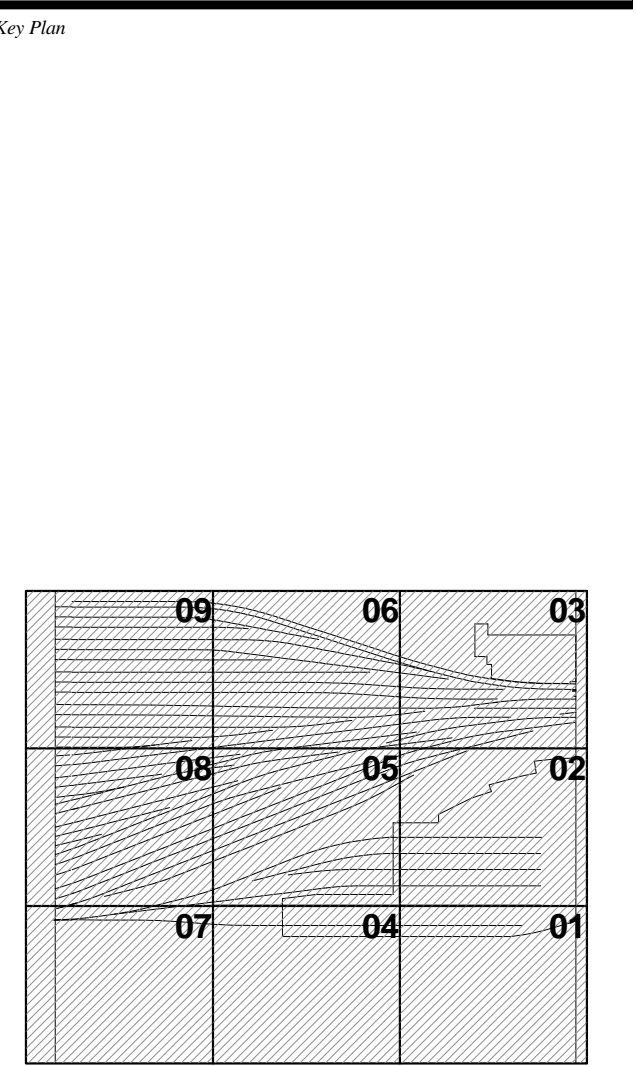
**LIRR RAILYARD ENCLOSURE  
SW AXON VIEW**  
① SCALE: NTS



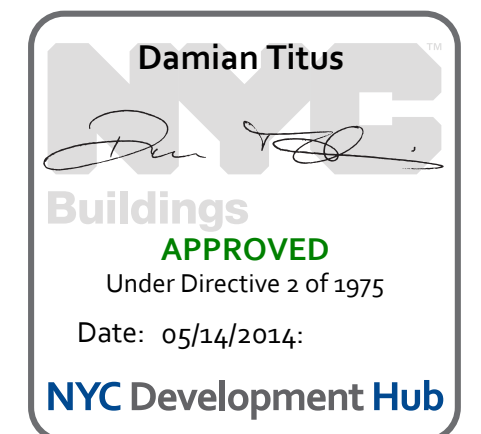
**LIRR RAILYARD ENCLOSURE  
NE AXON VIEW**  
② SCALE: NTS

No.	Description	Date
6	DOB SUBMISSION	10/18/2013
5	L.I.R.R. - 100% M&E-PL PLATFORM	11/22/2013
4	L.I.R.R. - 90% SUBMISSION	8/09/2013
3	L.I.R.R. - 30% M&E SUBMISSION	6/14/2013
2	L.I.R.R. - 60% SUBMISSION	5/20/2013
1	L.I.R.R. - 30% SUBMISSION	2/15/2013

No.	Description	Date
6	DOB SUBMISSION	10/18/2013
5	L.I.R.R. - 100% M&E-PL PLATFORM	11/22/2013
4	L.I.R.R. - 90% SUBMISSION	8/09/2013
3	L.I.R.R. - 30% M&E SUBMISSION	6/14/2013
2	L.I.R.R. - 60% SUBMISSION	5/20/2013
1	L.I.R.R. - 30% SUBMISSION	2/15/2013



Title Date: 02/15/13  
Project No: 2138  
Drawing No:  
Sheet Number:  
Drawing Title:  
**HYE -PL -A-020.00**



**PLATFORM DIAGRAM  
VIEWS ---**

Drawn by:  
**A-020.00**



Address:  
530 WEST 33RD STREET  
NEW YORK, NY

Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
TEL: 212.801.1000 FAX: 212.801.1048

Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
TEL: 212.986.7514 FAX: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
TEL: 212.708.3600

Architect  
Kohn Pedersen Fox Associates  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
New York, NY 10010  
TEL: 212.977.6500 FAX: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
TEL: 917.661.7800 FAX: 917.661.7801

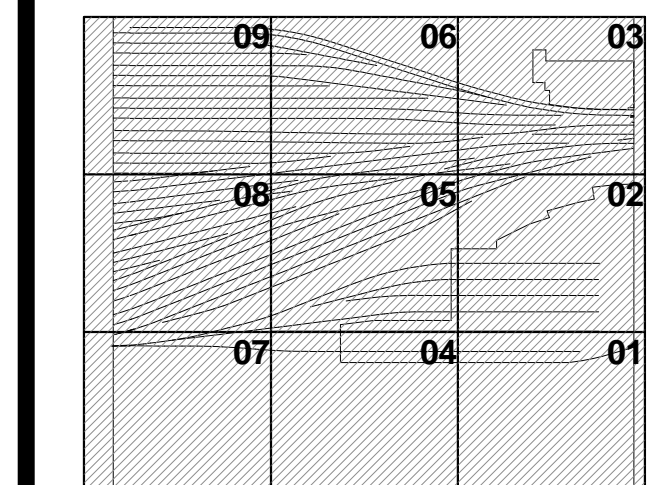
Mechanical, Electrical, Plumbing, Fire Protection  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
TEL: 212.266.8300 FAX: 212.571.6825

LIRR Ventilation  
Dye Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
TEL: 212.973.9500 FAX: 212.682.6172

1. DOB SUBMISSION UPDATE	3/17/2014
2. DOB SUBMISSION UPDATE	2/12/2014
3. DOB SUBMISSION	10/18/2013
4. NYC DOB Filing	6/12/2013
5. Description	File

Rev Plot



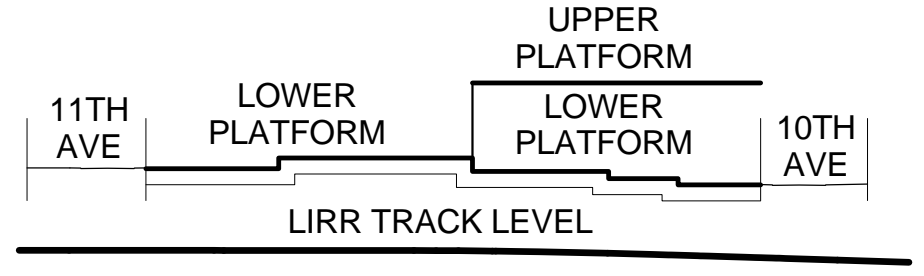
Date: 06/10/13  
Project No: 219  
Drawn By: [Signature]  
Sheet Number: [Signature]

**HYE -PL -A-032.00**

**TRACK LEVEL OVERALL PLAN**

Drawn By: [Signature]  
**A-032.00**

- GENERAL NOTES**
- HATCHED AREA [Symbol] DENOTES PROPOSED LIRR AREA RESERVED FOR TRAIN YARD AND SUPPORTING FACILITIES INCLUDING MAINTENANCE OF EQUIPMENT, CONTROL TOWER, AND A/C & D/C SUBSTATION.
  - HATCHED AREA [Symbol] DENOTES INACCESSIBLE SPACE
  - PLATFORM LOWER LEVEL PROVIDES THE ENCLOSURE TO LIRR TRAINYARD AREA - AN UNCONDITIONED SPACE. PLATFORM UPPER LEVEL IS FOR LIRR MAINTENANCE ACCESS ONLY
  - ALL AREAS SHOWN AS NON-LIRR AT THIS LEVEL TO BE "DRY FLOOD-PROOFED" PER BC G106.4. ALL NON-LIRR AREAS FLOORS & ENCLOSING WALL TO BE DESIGNED TO WITHSTAND WATER PRESSURE FROM HYDROSTATIC & HYDRODYNAMIC WATER LOADS IMPOSED ASSUMING WATER HEIGHT TO BASE FLOOD ELEVATION.



SEE A-020 FOR DIAGRAMMATIC VIEW OF 3-HR SEPARATION AND EXTENT OF LIRR TRAINYARD ENCLOSURE

SECTOR 9 SEE A-1_9	SECTOR 6 SEE A-1_6	SECTOR 3 SEE A-1_3
SECTOR 8 SEE A-1_8	SECTOR 5 SEE A-1_5	SECTOR 2 SEE A-1_2
SECTOR 7 SEE A-1_7	SECTOR 4 SEE A-1_4	SECTOR 1 SEE A-1_1

SEE SECTOR PLANS FOR ADDITIONAL INFORMATION. THESE PROVIDED FOR REFERENCE ONLY.

- LIRR EMPLOYEE ACCESS STAIR PROVIDED AS PART OF TOWER C PROJECT. N.I.C.

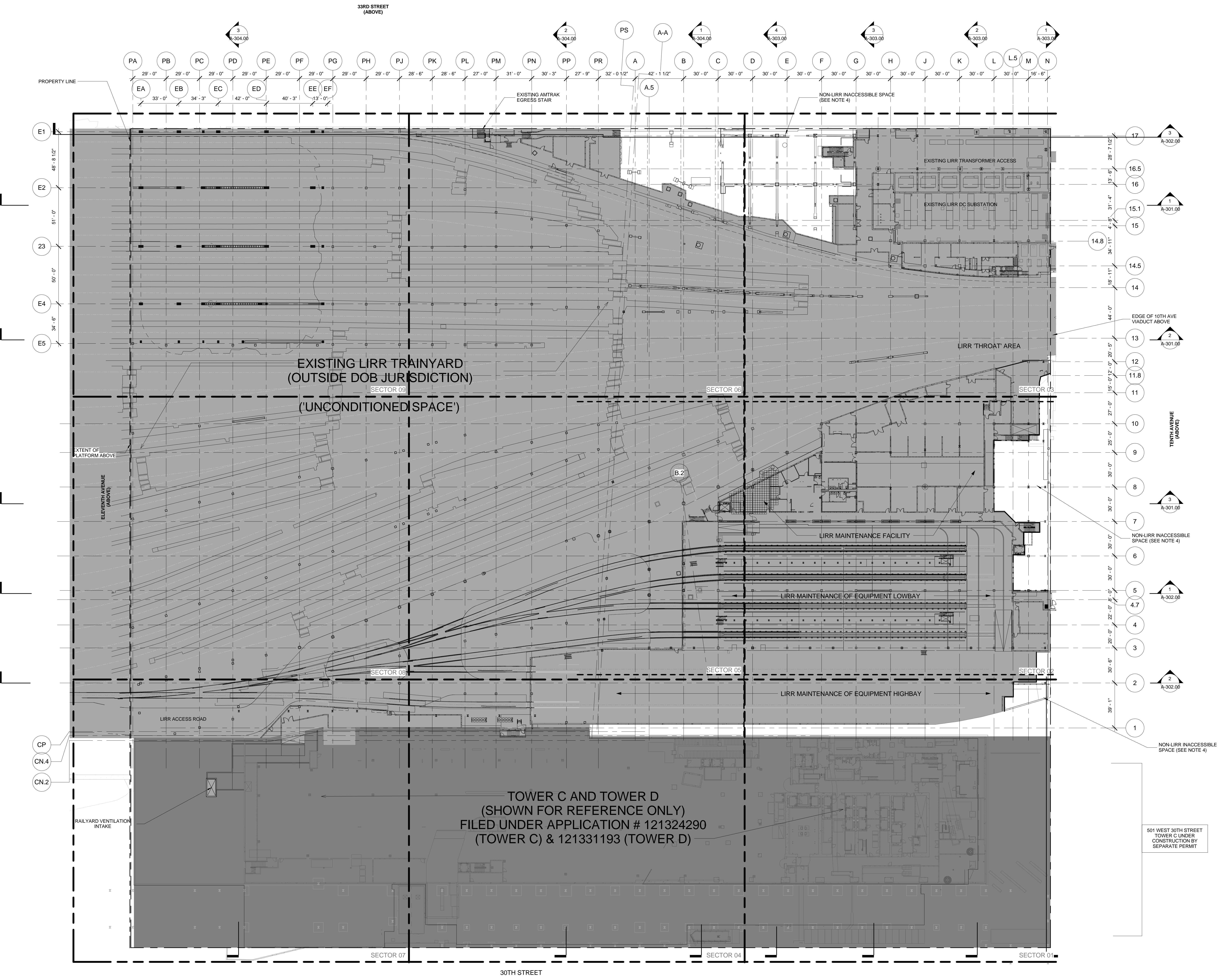
**SYMBOL KEY**

[Symbol]	1-HOUR RATED WALL
[Symbol]	2-HOUR RATED WALL
[Symbol]	3-HOUR RATED WALL
[Symbol]	TRAVEL DISTANCE

[Symbol]	OCCUPANCY	OCCUPANCY LOAD FACTOR (SQ. FT./PERSON)
[Symbol]	AREA (SQ. FT.)	OCCUPANT LOAD (PERSONS)

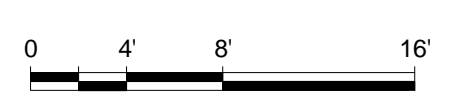
[Symbol]	LIRR JURISDICTION
[Symbol]	FILED WITH DOB UNDER SEPARATE APPLICATION
[Symbol]	PLATFORM ROOF (MAINTENANCE ACCESS ONLY)
[Symbol]	LIRR INTERSTITIAL SPACE (STRUCTURAL MAINTENANCE ACCESS ONLY)

- NO RESIDENTIAL USES PROPOSED. NO OCCUPIABLE SPACES BENEATH BASE FLOOD ELEVATION DESIGNED AS PER ABFE 11'-4"



**1 TRACK LEVEL OVERALL PLAN**  
SCALE: 1/32" = 1'-0"

**Damian Titus**  
REGISTERED ARCHITECT  
Buildings  
APPROVED  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub





**HUDSON YARDS - PLATFORM**

Address:  
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NEW YORK, NY

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Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
TEL: 917.661.7800 FAX: 917.661.7801

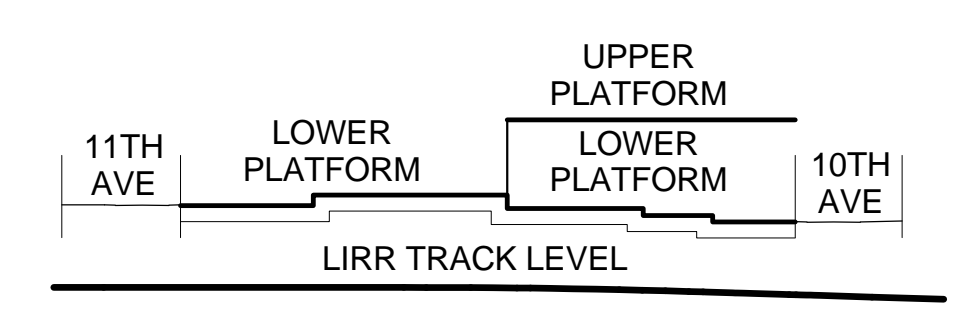
Mechanical, Electrical, Plumbing, Fire Protection  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
TEL: 212.266.8300 FAX: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
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New York, NY 10005  
212.896.3000

LIRR Substation  
ARCUM  
605 Third Avenue  
New York, NY 10158  
TEL: 212.973.9300 FAX: 212.682.6172

**GENERAL NOTES**

- HATCHED AREA [Hatched Pattern] DENOTES PROPOSED LIRR AREA RESERVED FOR TRAIN YARD AND SUPPORTING FACILITIES INCLUDING MAINTENANCE OF EQUIPMENT, CONTROL TOWER, AND A/C & D/C SUBSTATION.
- HATCHED AREA [Diagonal Pattern] DENOTES INACCESSIBLE SPACE
- PLATFORM LOWER LEVEL PROVIDES THE ENCLOSURE TO LIRR TRAINYARD AREA - AN UNCONDITIONED SPACE. PLATFORM UPPER LEVEL IS FOR LIRR MAINTENANCE ACCESS ONLY



SEE A-020 FOR DIAGRAMMATIC VIEW OF 3-HR SEPARATION AND EXTENT OF LIRR TRAINYARD ENCLOSURE

SECTOR 9 SEE A-1_9	SECTOR 6 SEE A-1_6	SECTOR 3 SEE A-1_3
SECTOR 8 SEE A-1_8	SECTOR 5 SEE A-1_5	SECTOR 2 SEE A-1_2
SECTOR 7 SEE A-1_7	SECTOR 4 SEE A-1_4	SECTOR 1 SEE A-1_1

SEE SECTOR PLANS FOR ADDITIONAL INFORMATION. THESE PROVIDED FOR REFERENCE ONLY.

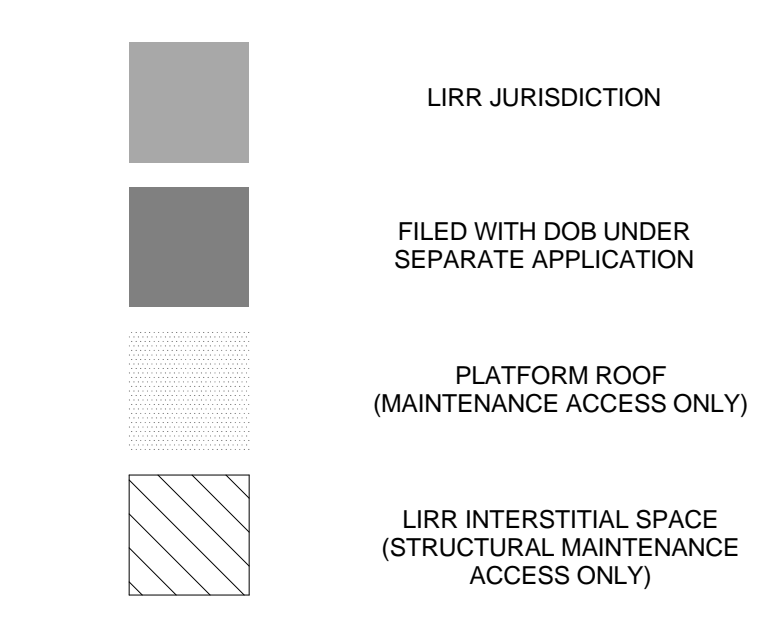
- LIRR EMPLOYEE ACCESS STAIR PROVIDED AS PART OF TOWER C PROJECT. N.I.C.

**SYMBOL KEY**

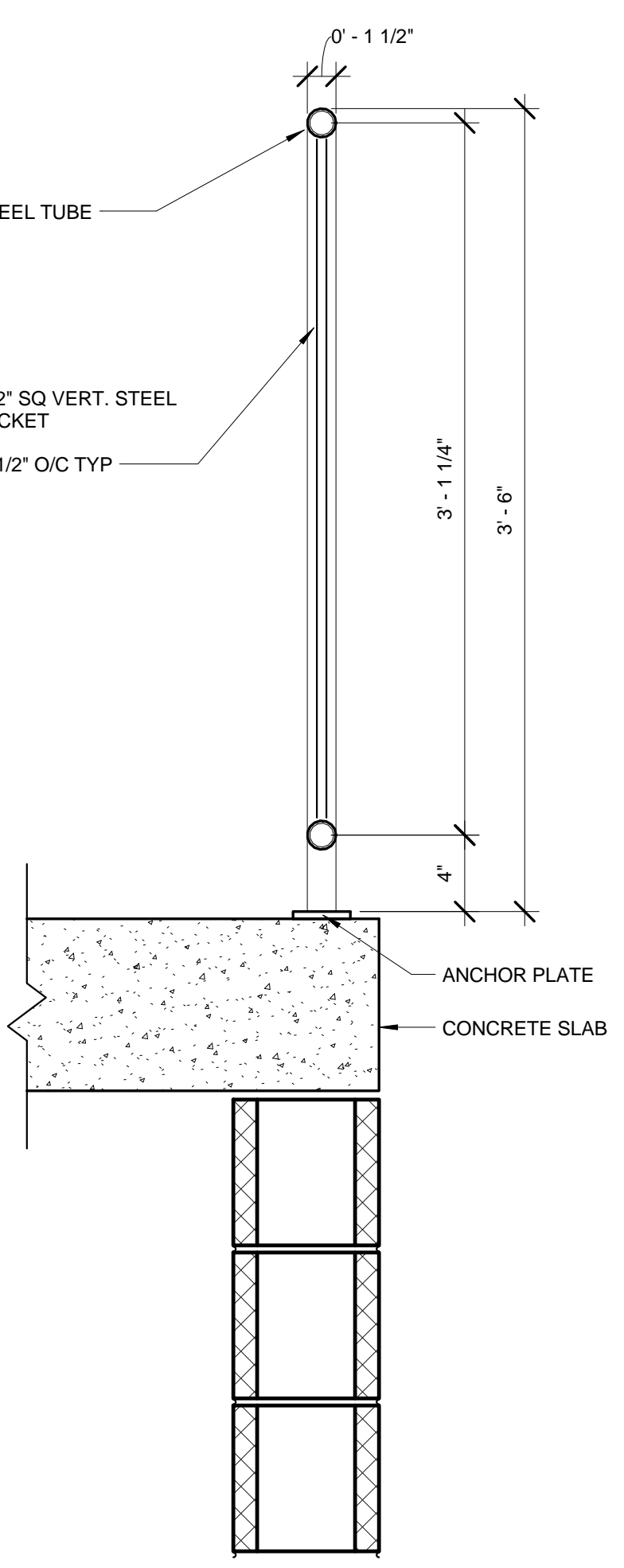
[Solid Line]	1-HOUR RATED WALL
[Dashed Line]	2-HOUR RATED WALL
[Dotted Line]	3-HOUR RATED WALL
[Dash-dot Line]	TRAVEL DISTANCE

[Hatched Area]	OCCUPANCY	[Hatched Area]	OCCUPANCY LOAD FACTOR (SQ. FT./PERSON)
[Diagonal Pattern]	AREA (SQ. FT)	[Diagonal Pattern]	OCCUPANT LOAD (PERSONS)



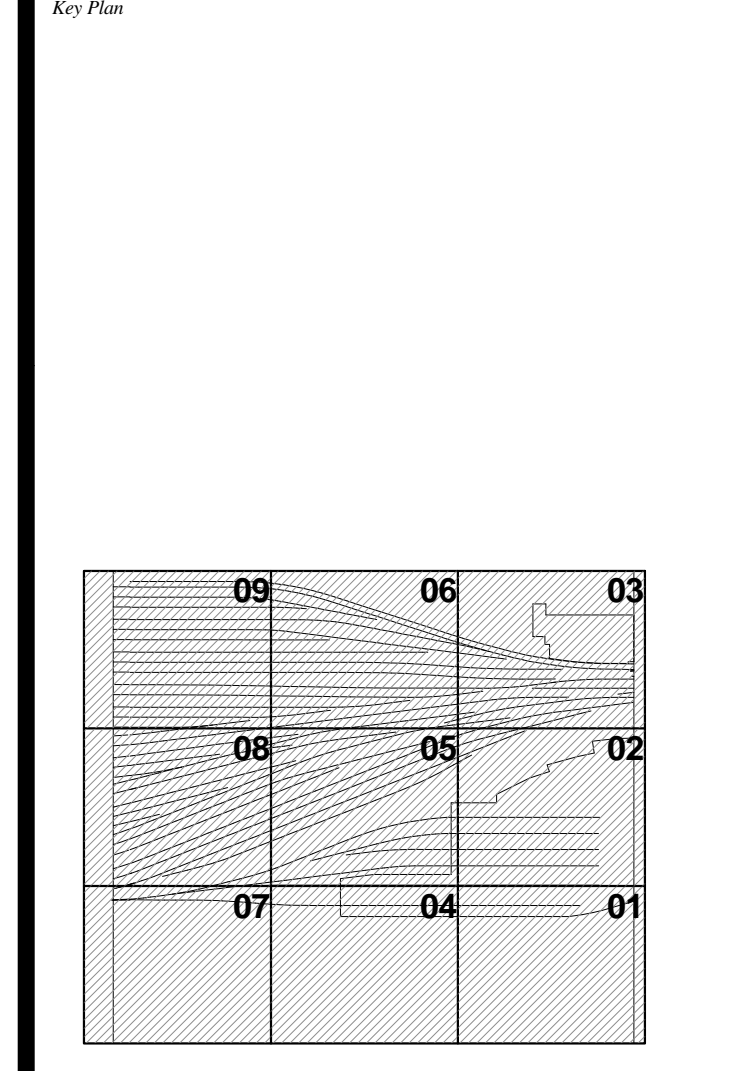
- NO RESIDENTIAL USES PROPOSED. NO OCCUPIABLE SPACES BENEATH BASE FLOOD ELEVATION DESIGNED AS PER ABFE 11'-4"



**Damian Titus**  
REGISTERED ARCHITECT  
NEW YORK STATE

**Buildings APPROVED**  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub

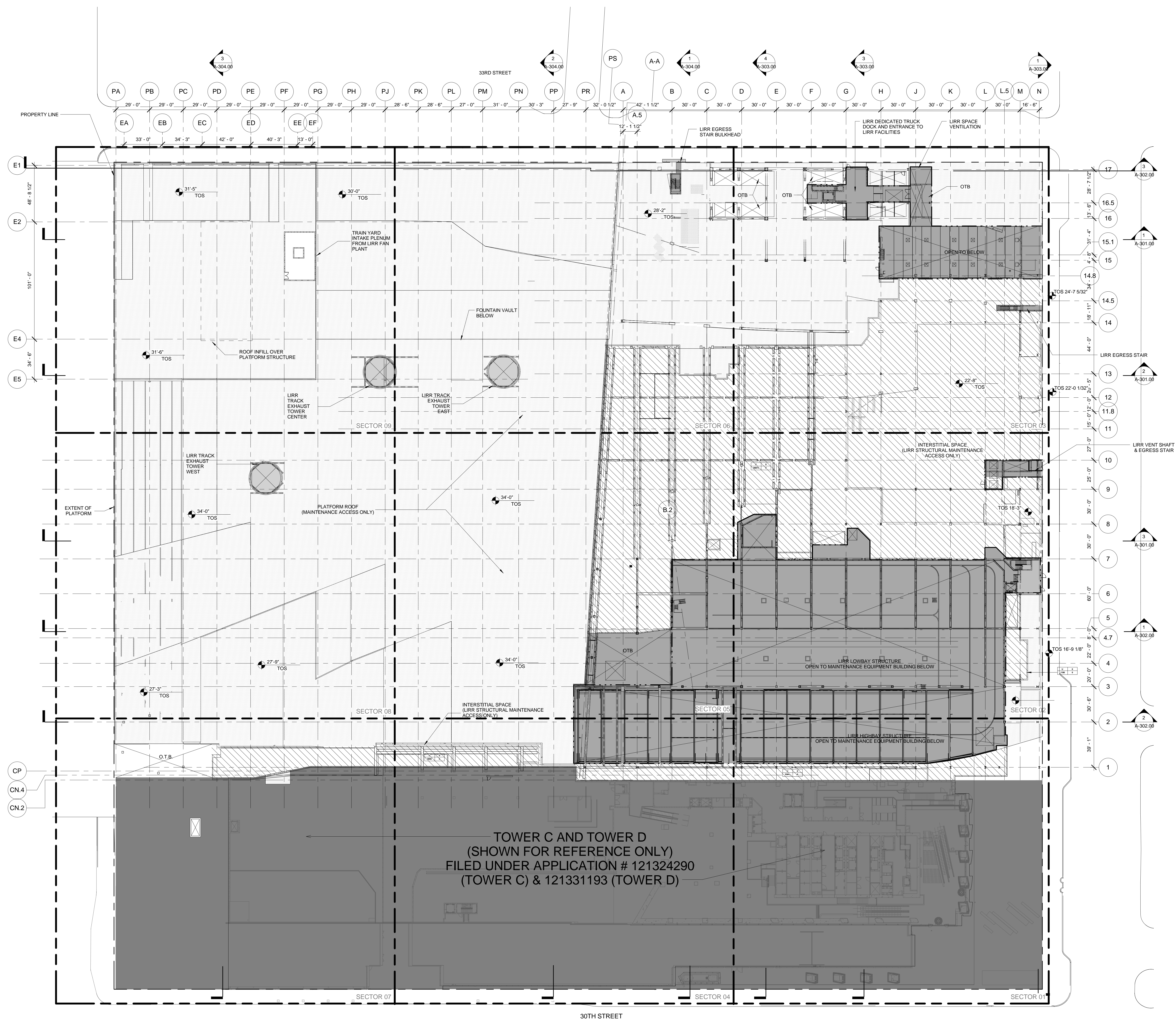
1. DOB SUBMISSION UPDATE	3/17/2014
2. DOB SUBMISSION UPDATE	2/12/2014
3. DOB SUBMISSION	10/18/2013
4. NYC DOB Filing	6/12/2013



Project No: 2198  
Drawing Title: HYE -PL -A-033.00

**LOWER PLATFORM LEVEL OVERALL PLAN**

Drawing No: A-033.00



**1 LOWER PLATFORM LEVEL OVERALL PLAN**  
SCALE: 1/32" = 1'-0"

**2 TYP. GUARDRAIL DETAIL**  
SCALE: 1/12" = 1'-0"





- GENERAL NOTES**
- HATCHED AREA [Hatched] DENOTES PROPOSED LIRR AREA RESERVED FOR TRAIN YARD AND SUPPORTING FACILITIES INCLUDING MAINTENANCE OF EQUIPMENT, CONTROL TOWER, AND AC&S SUBSTATION.
  - HATCHED AREA [Hatched] DENOTES INACCESSIBLE SPACE
  - PLATFORM LOWER LEVEL PROVIDES THE ENCLOSURE TO LIRR TRAINYARD AREA - AN UNCONDITIONED SPACE. PLATFORM UPPER LEVEL IS FOR LIRR MAINTENANCE ACCESS ONLY.

**HUDSON YARDS - PLATFORM**

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Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
TEL: 212.708.3600

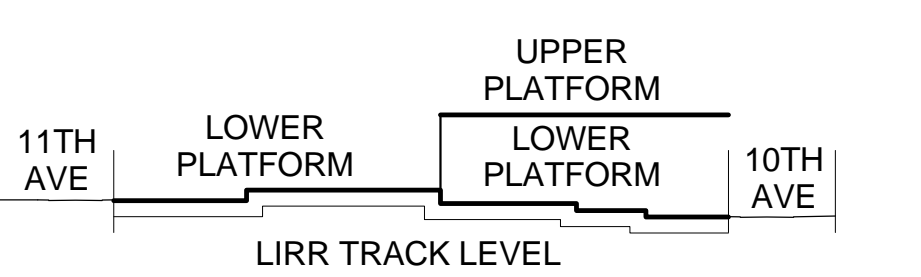
Architect  
Kohn Pedersen Fox Associates  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
New York, NY 10010  
TEL: 212.977.6500 FAX: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
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Mechanical, Electrical, Plumbing, Fire Protection  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
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LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
TEL: 212.973.9500 FAX: 212.682.6172



SEE A-020 FOR DIAGRAMMATIC VIEW OF 3-HR SEPARATION AND EXTENT OF LIRR TRAINYARD ENCLOSURE

SECTOR 9 SEE A-1_9	SECTOR 6 SEE A-1_6	SECTOR 3 SEE A-1_3
SECTOR 8 SEE A-1_8	SECTOR 5 SEE A-1_5	SECTOR 2 SEE A-1_2
SECTOR 7 SEE A-1_7	SECTOR 4 SEE A-1_4	SECTOR 1 SEE A-1_1

SEE SECTOR PLANS FOR ADDITIONAL INFORMATION. THESE PROVIDED FOR REFERENCE ONLY.

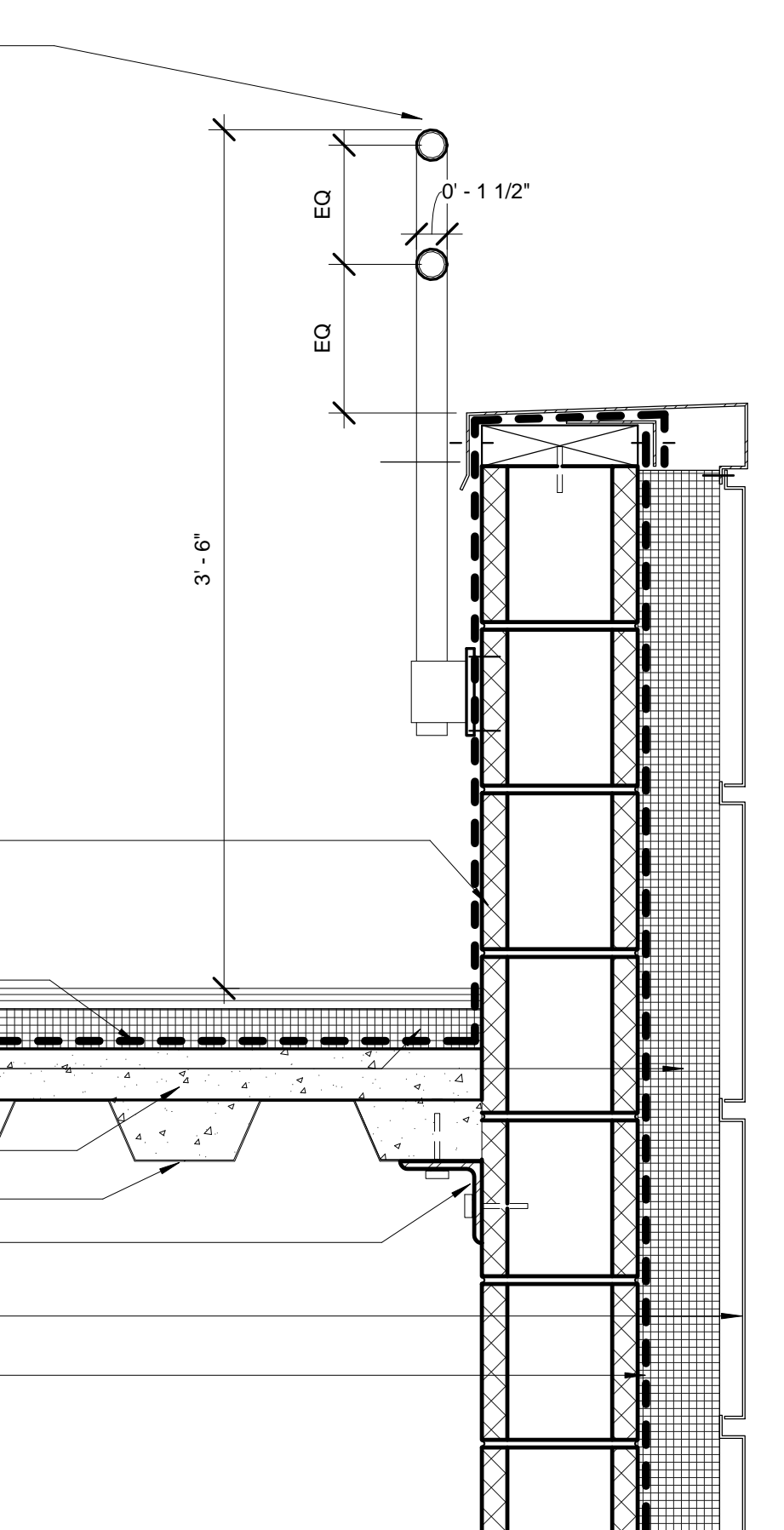
4. LIRR EMPLOYEE ACCESS STAIR PROVIDED AS PART OF TOWER C PROJECT. N.I.C.

SYMBOL KEY	
[Solid Line]	1-HOUR RATED WALL
[Dashed Line]	2-HOUR RATED WALL
[Dotted Line]	3-HOUR RATED WALL
[Dash-dot Line]	TRAVEL DISTANCE

OCCUPANCY	
[Hatched]	OCCUPANCY LOAD FACTOR (SQ. FT./PERSON)
[Solid]	OCCUPANT LOAD (PERSONS)

[Hatched]	LIRR JURISDICTION
[Solid]	FILED WITH DOB UNDER SEPARATE APPLICATION
[Dotted]	PLATFORM ROOF (MAINTENANCE ACCESS ONLY)
[Hatched]	LIRR INTERSTITIAL SPACE (STRUCTURAL MAINTENANCE ACCESS ONLY)

5. NO RESIDENTIAL USES PROPOSED. NO OCCUPIABLE SPACES BENEATH BASE FLOOD ELEVATION DESIGNED AS PER ABFE 11-4"



501 WEST 30TH STREET TOWER CURBS CONSTRUCTION BY SEPARATE PERMIT

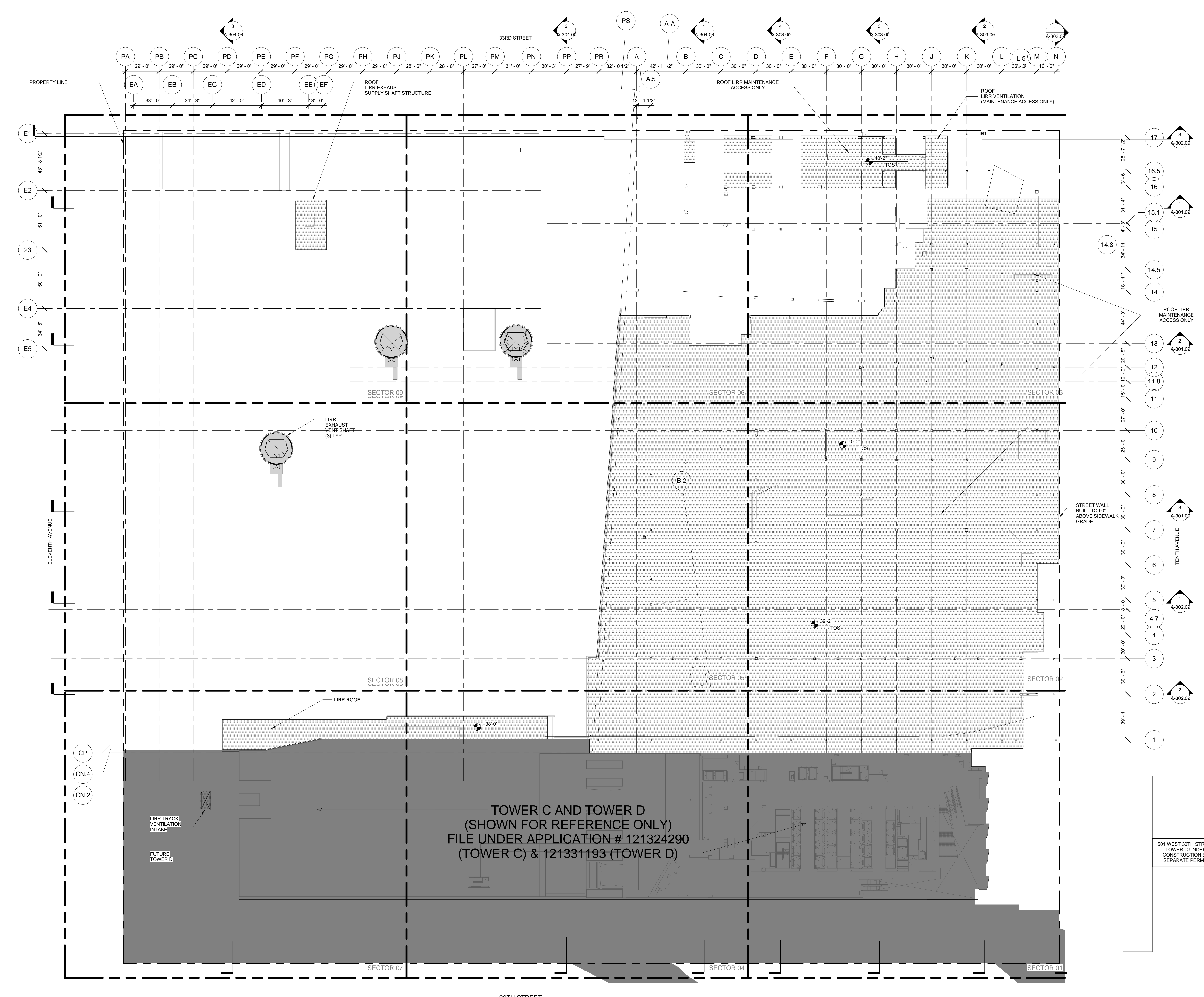
3'-6"

0 4 8 16'

**1 UPPER PLATFORM (ROOF) LEVEL OVERALL PLAN**  
SCALE: 1/32" = 1'-0"

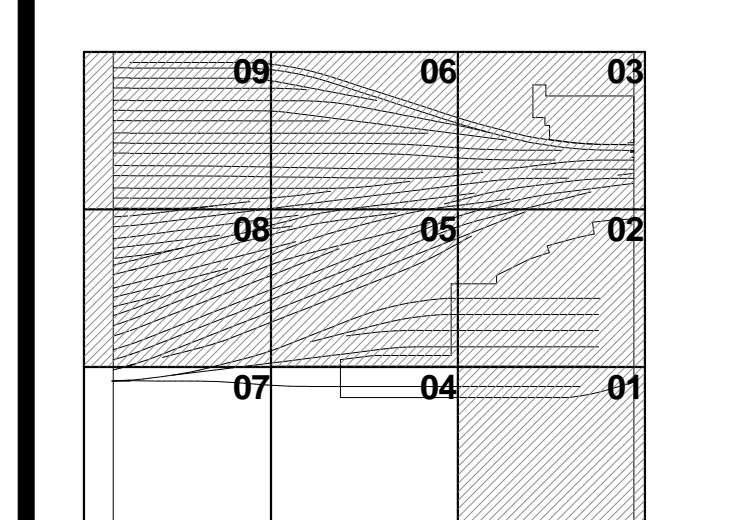
**2 TYP. ROOF PARAPET/GUARDRAIL DETAIL**  
SCALE: 1/12" = 1'-0"

Buildings APPROVED Under Directive 3 of 1975 Date: 05/14/2014 NYC Development Hub



TOWER C AND TOWER D (SHOWN FOR REFERENCE ONLY) FILE UNDER APPLICATION # 121324290 (TOWER C) & 121331193 (TOWER D)

No.	Description	Date
4	DOB SUBMISSION UPDATE	3/17/2014
3	DOB SUBMISSION UPDATE	2/12/2014
2	DOB SUBMISSION	10/18/2013
1	NYC DOB FILING	6/17/2013



Project No: 2198  
Date: 06/10/13  
Drawing Title: HYE-PL-A-034.00  
UPPER PLATFORM LEVEL OVERALL PLAN (ROOF)  
A-034.00

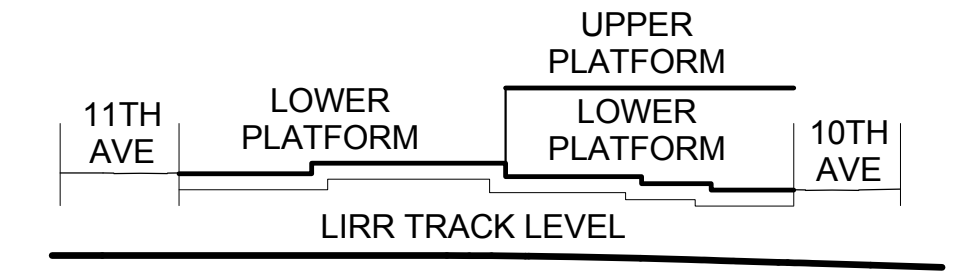
REGISTERED ARCHITECT  
DAMIAN TITUS  
STATE OF NEW YORK

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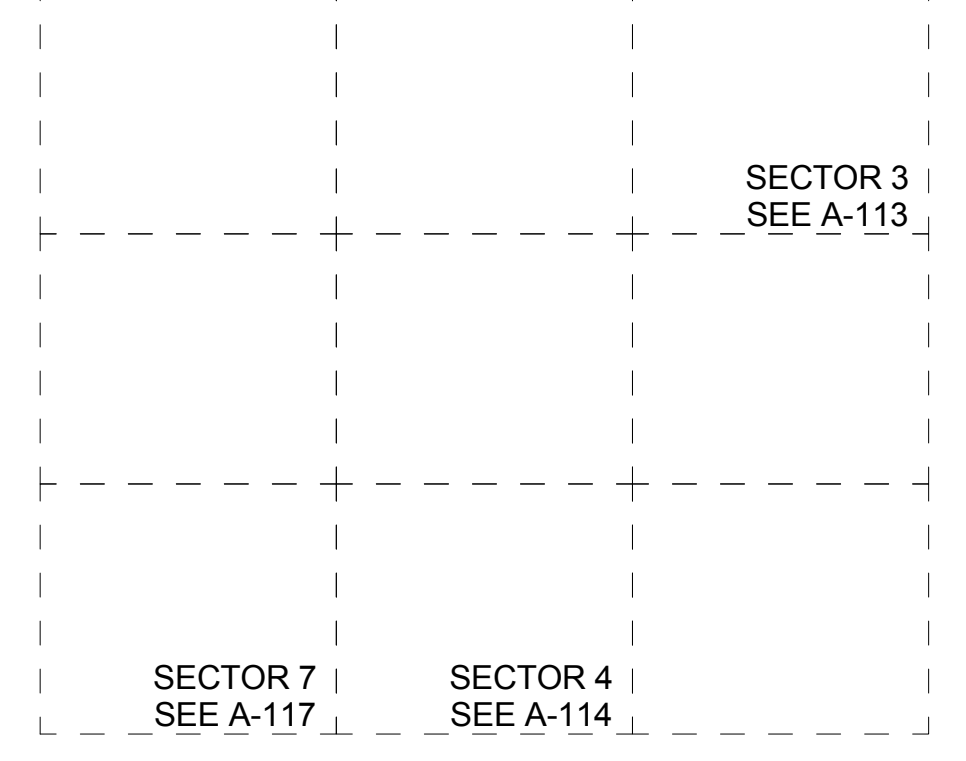
UPPER PLATFORM LEVEL OVERALL PLAN (ROOF)  
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2/12/2014 7:03:22 PM



- GENERAL NOTES**
- HATCHED AREA DENOTES PROPOSED NON-LIRR AREA
  - HATCHED AREA DENOTES MOE/AC SUBSTATION CONTROL TOWER LAYOUT PER LIRR WORKING GROUP MEETINGS SEE A-800 SERIES FOR DOCUMENTATION
  - PLATFORM LOWER LEVEL PROVIDES THE ENCLOSURE TO LIRR TRAINYARD AREA. PLATFORM UPPER LEVEL INCLUDES TEMPORARY REQUIRED OVER THROAT AND BASE OF RETAIL PODIUM KEY SECTION.



SEE A-020 FOR DIAGRAMMATIC VIEW OF 3-HR SEPARATION AND EXTENT OF LIRR TRAINYARD ENCLOSURE



SEE SECTOR PLANS FOR WALL TYPES, ROOM NAMES, DOOR TYPES, ETC.

- LIRR EXISTING UTILITIES SHOWN FOR INFORMATION. EXISTING UTILITIES BASED ON AS-BUILT DRAWINGS DATED 1982. REFER TO STRUCTURAL DRAWINGS FOR FURTHER FOUNDATION INFORMATION.
- LIRR EMPLOYEE ACCESS STAIR PROVIDED AS PART OF TOWER C PROJECT. N.I.C.

**SYMBOL KEY**

	1-HOUR RATED WALL
	2-HOUR RATED WALL
	3-HOUR RATED WALL

*Client*  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
TEL: 212.801.1000 FAX: 212.801.1048

*Oxford Properties Group*  
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*Construction Manager*  
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TEL: 212.708.3600

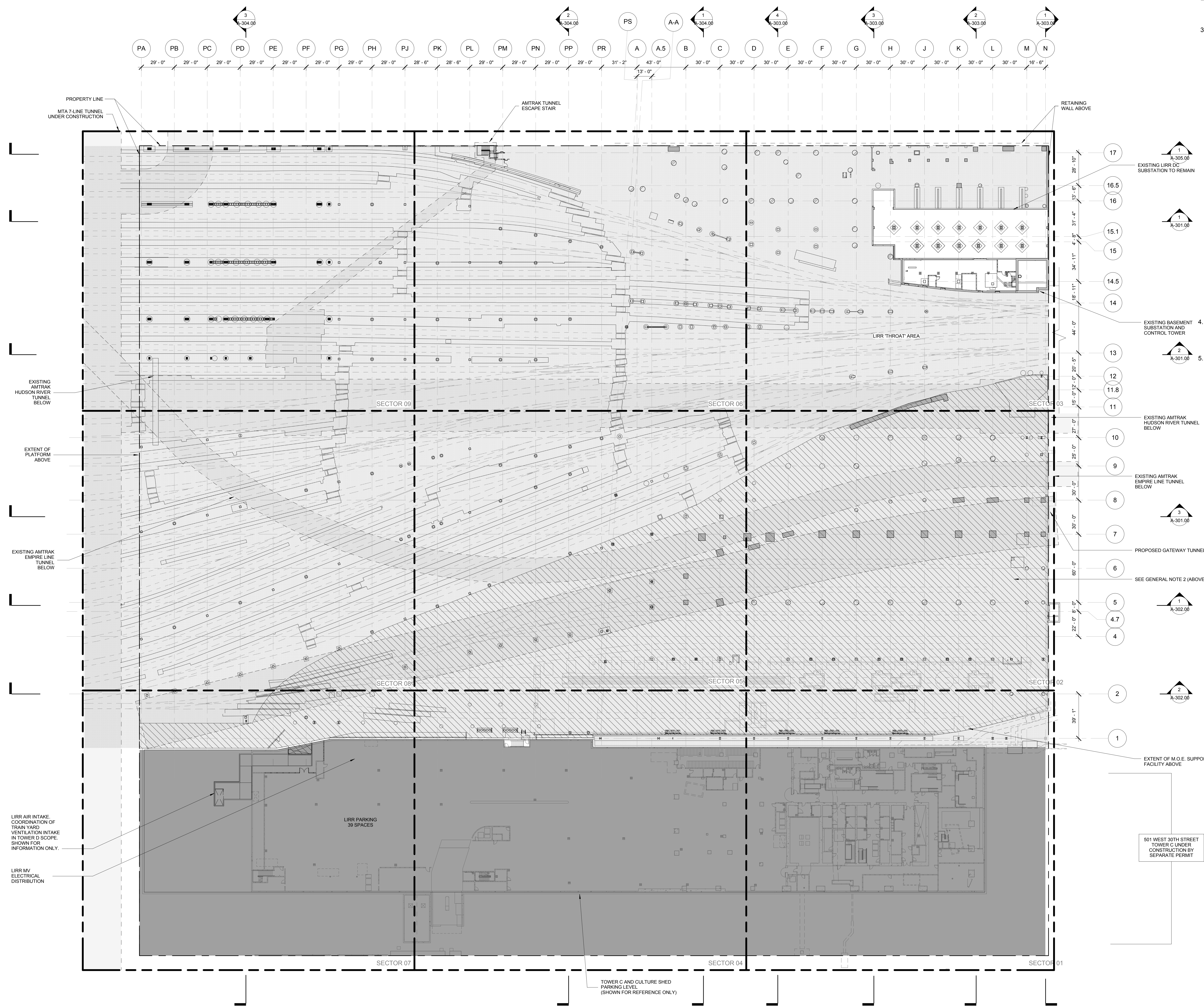
*Architect*  
Kohn Pedersen Fox Associates  
PC Architects & Planning Consultants  
11 West 42nd Street  
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TEL: 212.977.6500 FAX: 212.956.2526

*Structural Engineer*  
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51 Madison Avenue  
New York, NY 10010  
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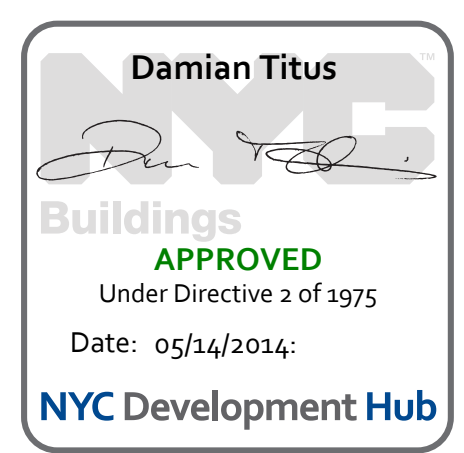
*Mechanical, Electrical, Plumbing, Fire Protection*  
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100 Broadway  
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*LIRR Ventilation*  
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*LIRR Substation*  
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1 UTILITY LEVEL OVERALL PLAN EL. ± 1'-0"  
SCALE: 1/32" = 1'-0"



Date: 02/15/13  
Project No: 219  
Drawing Title: HYE-PL-A-101.00  
Drawing No: A-101.00

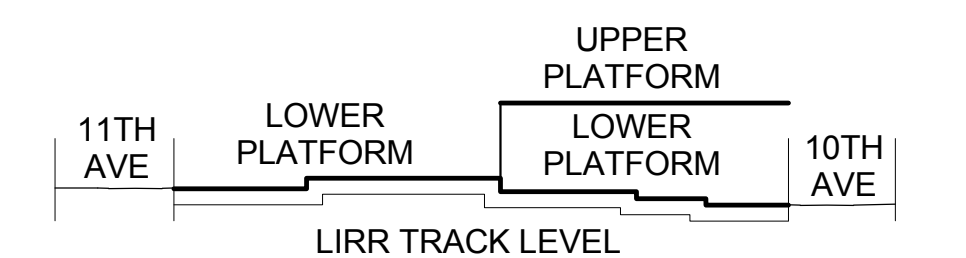
**UTILITY LEVEL OVERALL PLAN**

0 4 8 16'

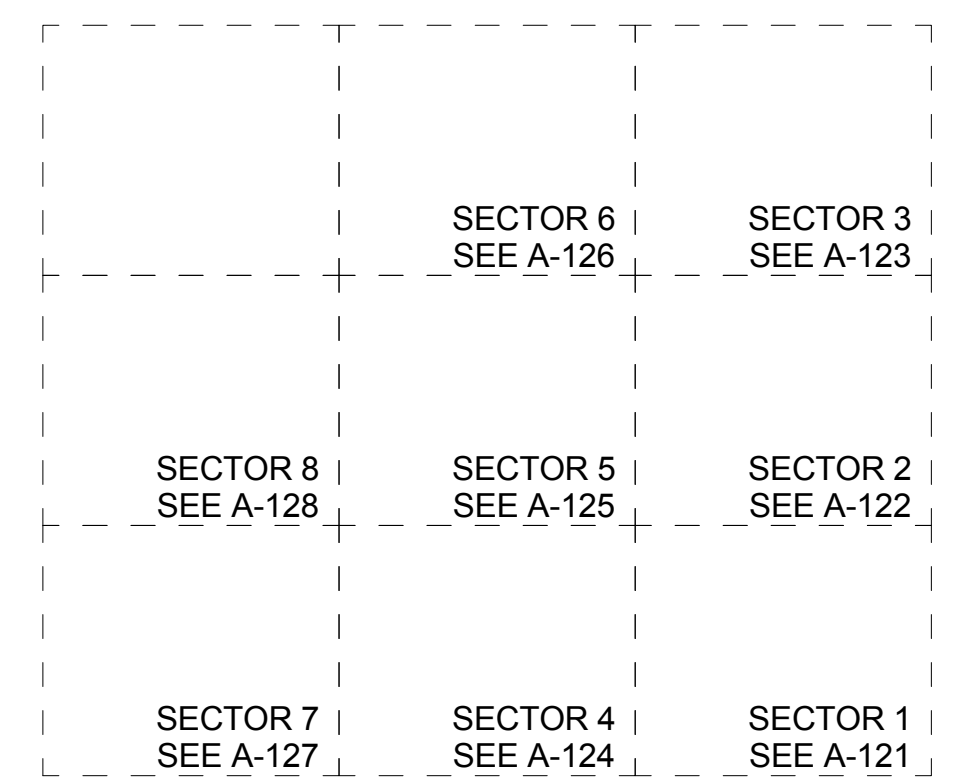


**GENERAL NOTES**

- HATCHED AREA DENOTES PROPOSED NON-LIRR AREA
- HATCHED AREA DENOTES MOE/AC SUBSTATION CONTROL TOWER LAYOUT PER LIRR WORKING GROUP MEETINGS (THIS IS SHOWN IN ARCH. SERIES ONLY) SEE A-800 SERIES FOR DOCUMENTATION
- PLATFORM LOWER LEVEL PROVIDES THE ENCLOSURE TO LIRR TRAINYARD AREA. PLATFORM UPPER LEVEL INCLUDES TEMPORARY REQUIRED OVER THROAT AND BASE OF RETAIL PODIUM KEY SECTION:



SEE A-020 FOR DIAGRAMMATIC VIEW OF 3-HR SEPARATION AND EXTENT OF LIRR TRAINYARD ENCLOSURE



SEE SECTOR PLANS FOR WALL TYPES, ROOM NAMES, DOOR TYPES, ETC.

Client  
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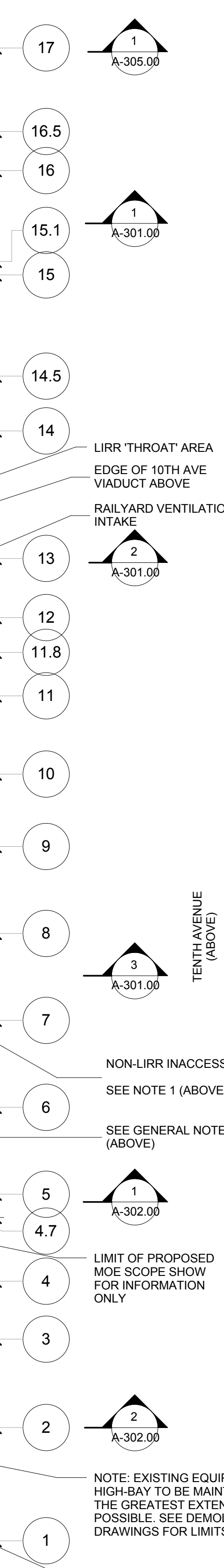
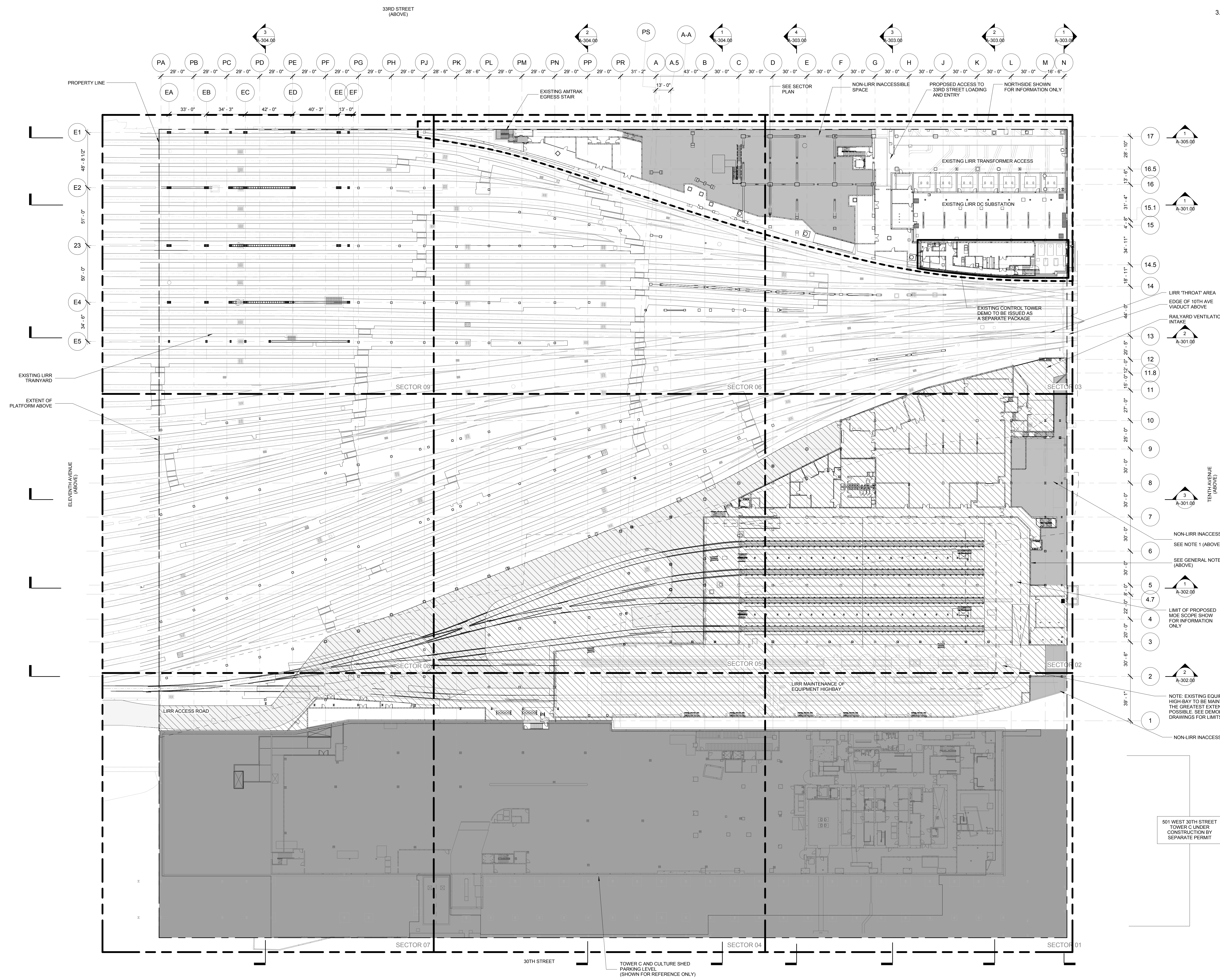
Architect  
Kohn Pedersen Fox Associates  
PC Architects & Planning Consultants  
11 West 42nd Street  
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212.896.3000

LIRR Substation  
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New York, NY 10158  
TEL: 212.973.9300 FAX: 212.682.6172



NON-LIRR INACCESSIBLE SPACE  
SEE NOTE 1 (ABOVE)

SEE GENERAL NOTE 2 (ABOVE)

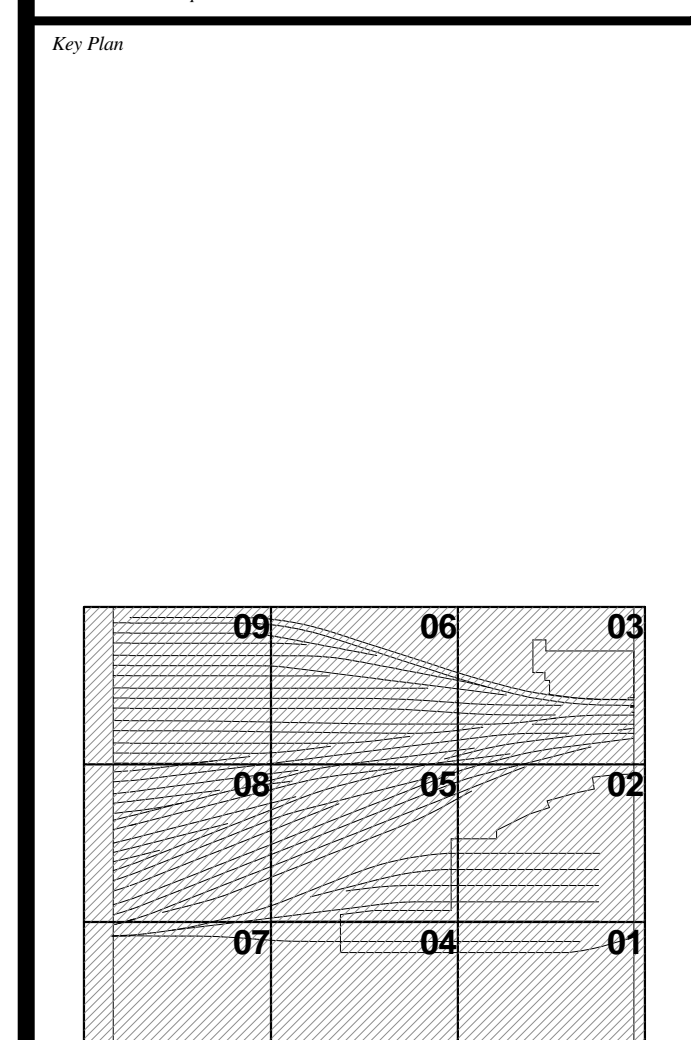
LIMIT OF PROPOSED MOE SCOPE SHOW FOR INFORMATION ONLY

NOTE: EXISTING EQUIPMENT IN HIGHWAY TO BE MAINTAINED TO THE GREATEST EXTENT POSSIBLE. SEE DEMOLITION DRAWINGS FOR LIMITS OF WORK.

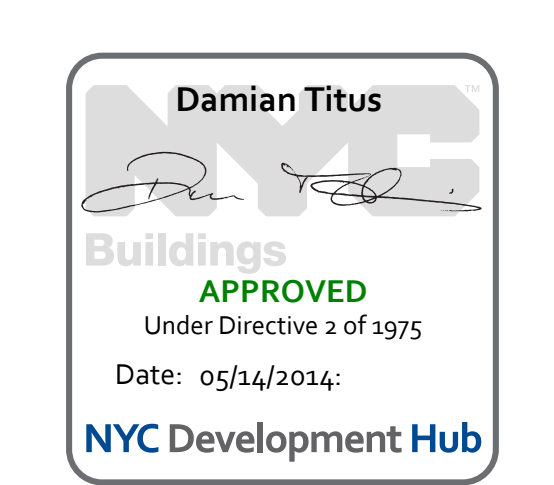
NON-LIRR INACCESSIBLE SPACE

501 WEST 30TH STREET TOWER C UNDER CONSTRUCTION BY SEPARATE PERMIT

3. DOB SUBMISSION	10/18/2013
4. L.I.R.R. - 100% MOE-PLATFORM	11/22/2013
5. L.I.R.R. - 90% MOE SUBMISSION	10/04/2013
6. L.I.R.R. - 90% SUBMISSION	8/09/2013
7. L.I.R.R. - 60% MOE SUBMISSION	7/12/2013
8. NYC DOB Filing	6/17/2013
9. L.I.R.R. - 30% MOE SUBMISSION	6/14/2013
10. L.I.R.R. - 60% SUBMISSION	5/20/2013
11. L.I.R.R. - 30% SUBMISSION	2/15/2013
12. Description	Date



**1 TRACK LEVEL OVERALL PLAN EL. ± 10'-0"**  
SCALE: 1/32" = 1'-0"

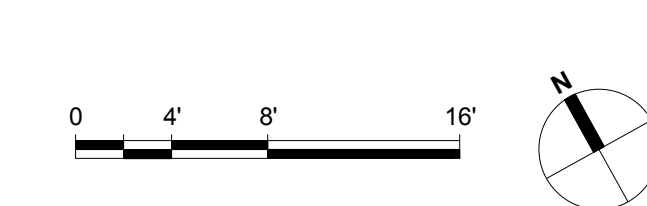


Date: 02/15/13  
Project No: 2119  
Sheet Number  
Drawing Title

**HYE-PL-A-102.00**

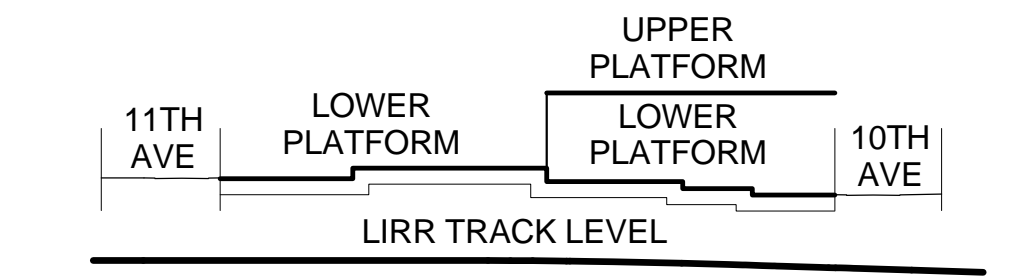
**TRACK LEVEL OVERALL PLAN**

Sheet Number  
**A-102.00**





- GENERAL NOTES**
- HATCHED AREA DENOTES PROPOSED NON-LIRR AREA
  - HATCHED AREA DENOTES MOE/AC SUBSTATION CONTROL TOWER LAYOUT PER LIRR WORKING GROUP MEETINGS (THIS IS SHOWN IN ARCH. SERIES ONLY) SEE A-800 SERIES FOR DOCUMENTATION
  - PLATFORM LOWER LEVEL PROVIDES THE ENCLOSURE TO LIRR TRAINYARD AREA. PLATFORM UPPER LEVEL INCLUDES TEMPORARY REQUIRED UPPER THROAT AND BASE OF RETAIL PODIUM KEY SECTION:



SEE A-020 FOR DIAGRAMMATIC VIEW OF 3-HR SEPARATION AND EXTENT OF LIRR TRAINYARD ENCLOSURE

SECTOR 9 SEE A-139	SECTOR 6 SEE A-136	SECTOR 3 SEE A-133
SECTOR 8 SEE A-138	SECTOR 5 SEE A-135	SECTOR 2 SEE A-132
SECTOR 7 SEE A-137	SECTOR 4 SEE A-134	SECTOR 1 SEE A-131

SEE SECTOR PLANS FOR WALL TYPES, ROOM NAMES, DOOR TYPES, ETC.

**Client**  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
TEL: 212.801.1000 FAX: 212.801.1048

**Oxford Properties Group**  
320 Park Avenue, 17th Floor  
New York, NY 10022  
TEL: 212.986.7514 FAX: 212.986.7510

**Construction Manager**  
Tishman Construction Corporation  
100 Park Avenue, 50th Floor  
New York, NY 10017  
TEL: 212.708.3600

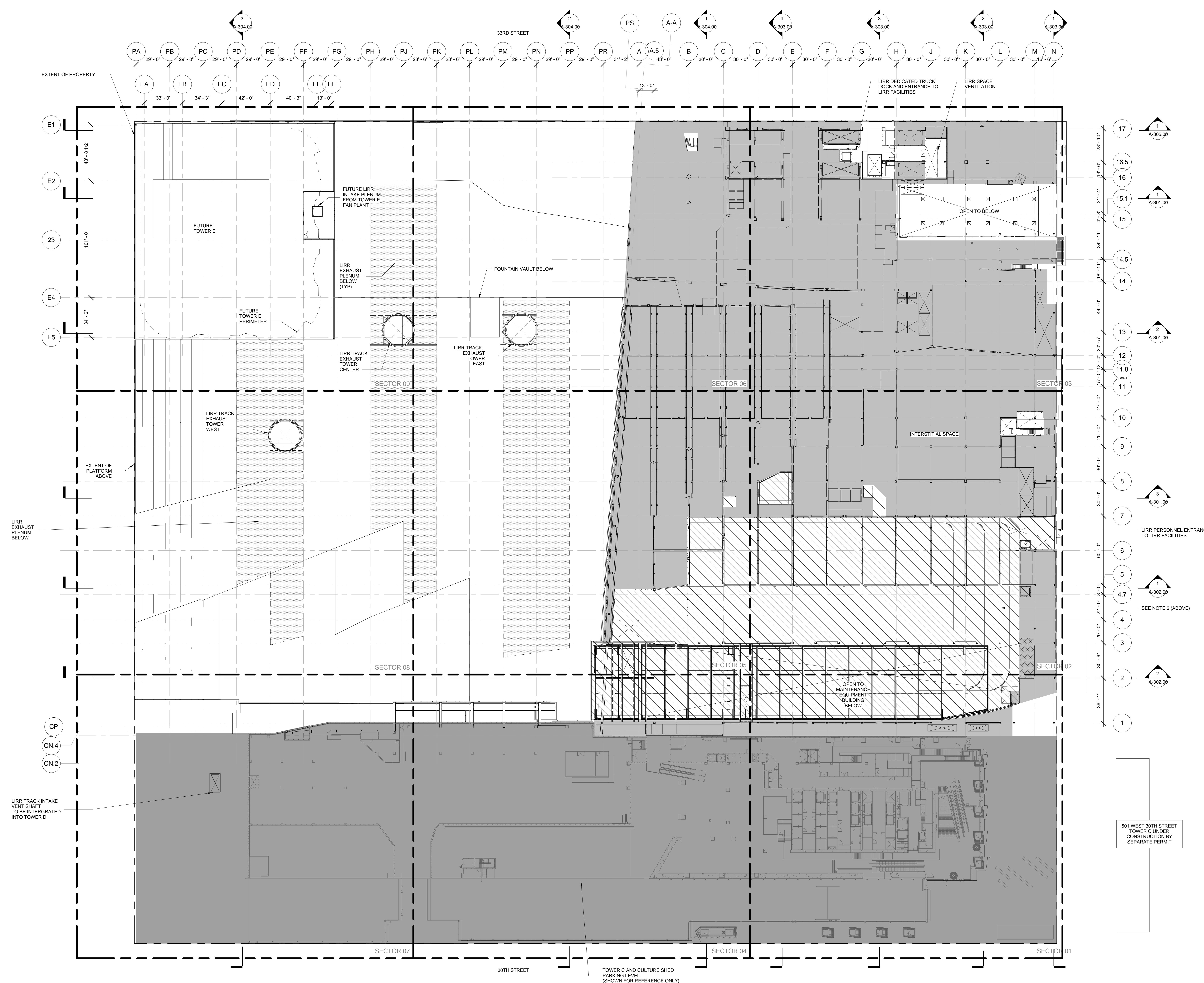
**Architect**  
Kohn Pedersen Fox Associates  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
TEL: 212.977.6500 FAX: 212.956.2526

**Structural Engineer**  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
TEL: 917.661.7800 FAX: 917.661.7801

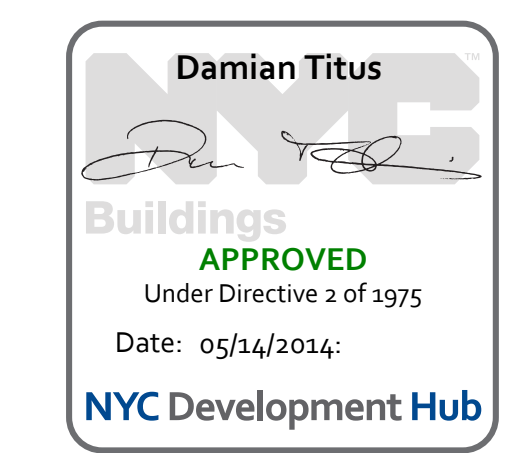
**Mechanical, Electrical, Plumbing, Fire Protection**  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
TEL: 212.266.8300 FAX: 212.571.6825

**LIRR Ventilation**  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
212.896.3000

**LIRR Substation**  
AECOM  
605 Third Avenue  
New York, NY 10158  
TEL: 212.973.9500 FAX: 212.682.6172

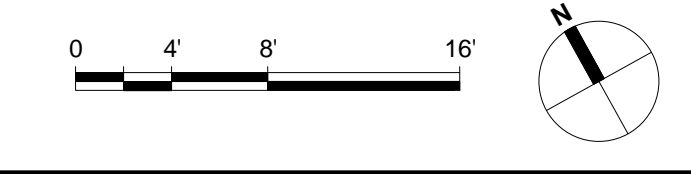


1 LOWER PLATFORM LEVEL OVERALL PLAN EL. ± 35'-0"  
SCALE: 1/32" = 1'-0"



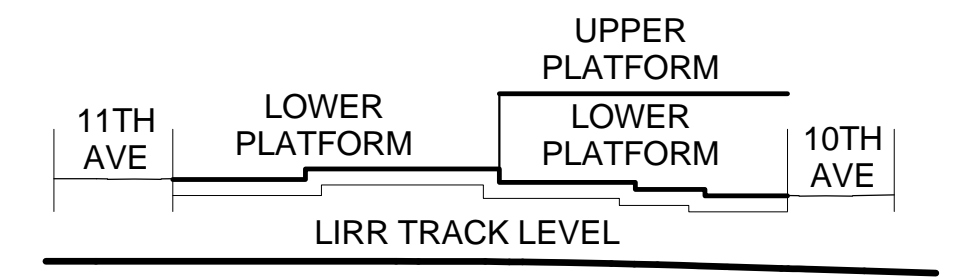
Date: 02/15/13  
Project No: 2119  
Drawing Title: HYE - PL - A-103.00

LOWER PLATFORM LEVEL OVERALL PLAN  
Drawing Title: A-103.00





- GENERAL NOTES**
- HATCHED AREA [Hatched Box] DENOTES PROPOSED NON-LIRR AREA
  - HATCHED AREA [Hatched Box] DENOTES MOE/AC SUBSTATION CONTROL TOWER LAYOUT PER LIRR WORKING GROUP MEETINGS (THIS IS SHOWN IN ARCH. SERIES ONLY) SEE A-800 SERIES FOR DOCUMENTATION
  - PLATFORM LOWER LEVEL PROVIDES THE ENCLOSURE TO LIRR TRAINYARD AREA. PLATFORM UPPER LEVEL INCLUDES TEMPORARY REQUIRED UPPER THROAT AND BASE OF RETAIL PODIUM KEY SECTION:

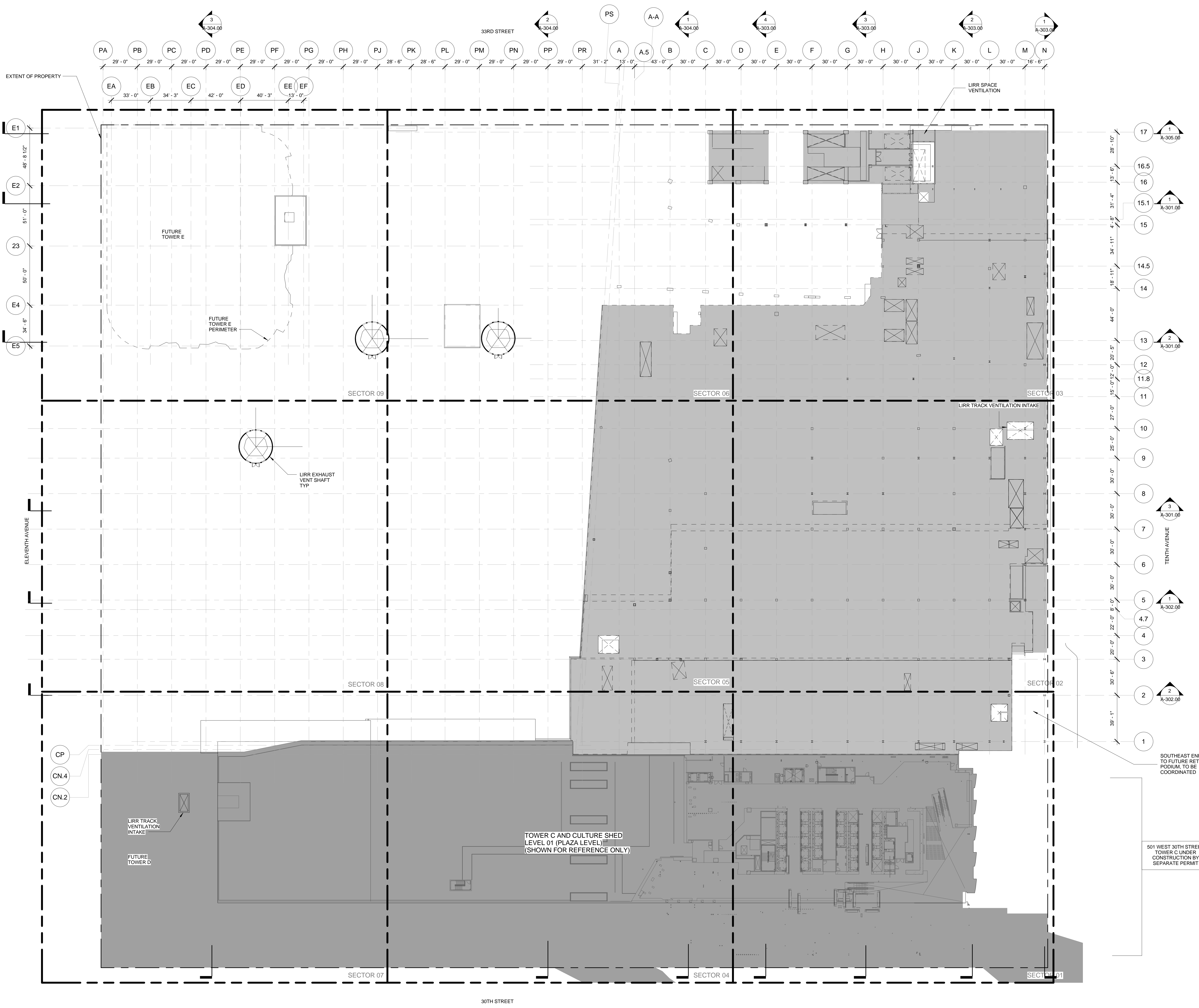


SEE A-020 FOR DIAGRAMMATIC VIEW OF 3-HR SEPARATION AND EXTENT OF LIRR TRAINYARD ENCLOSURE

SECTOR 9 SEE A-149	SECTOR 6 SEE A-146	SECTOR 3 SEE A-143
SECTOR 8 SEE A-148	SECTOR 5 SEE A-145	SECTOR 2 SEE A-142
SECTOR 7 SEE A-147	SECTOR 4 SEE A-144	SECTOR 1 SEE A-131

SEE SECTOR PLANS FOR WALL TYPES, ROOM NAMES, DOOR TYPES, ETC.

- Client*  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
TEL: 212.801.1000 FAX: 212.801.1048
- Client*  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
TEL: 212.986.7514 FAX: 212.986.7510
- Construction Manager*  
Tishman Construction Corporation  
100 Park Avenue, 50th Floor  
New York, NY 10017  
TEL: 212.708.3600
- Architect*  
Kohn Pedersen Fox Associates  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
TEL: 212.977.6500 FAX: 212.956.2526
- Structural Engineer*  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
TEL: 917.661.7800 FAX: 917.661.7801
- Mechanical, Electrical, Plumbing, Fire Protection*  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
TEL: 212.266.8300 FAX: 212.571.6825
- LIRR Ventilation*  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
212.896.3000
- LIRR Substation*  
AECOM  
605 Third Avenue  
New York, NY 10158  
TEL: 212.973.9300 FAX: 212.682.6172

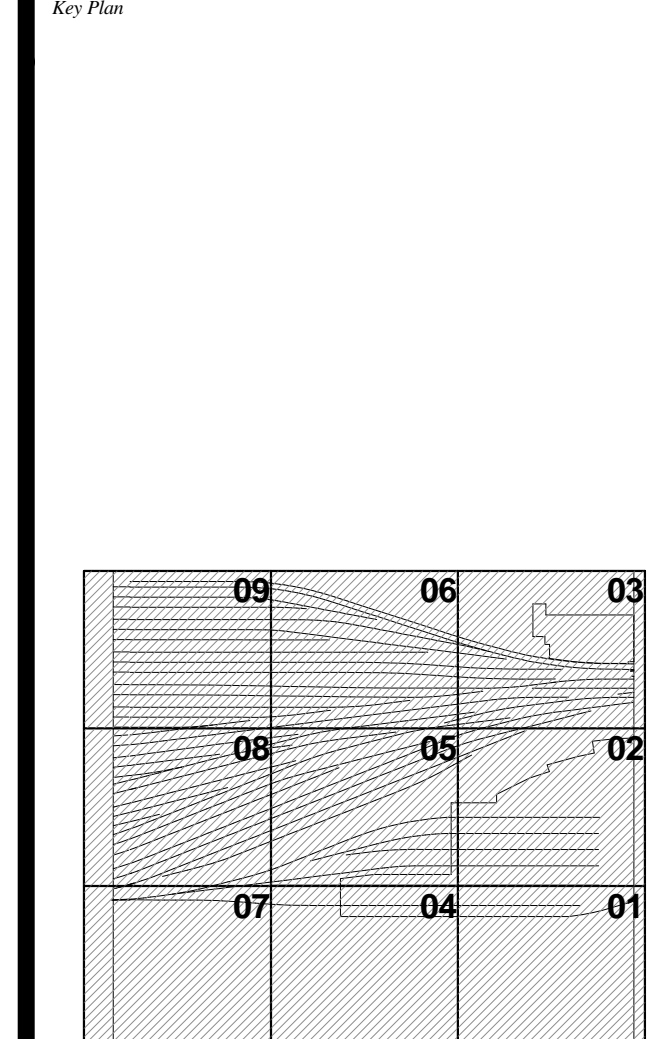


- 17 1 A-305.00
- 16.5
- 16
- 15.1 1 A-301.00
- 15
- 14.5
- 14
- 13 2 A-301.00
- 12
- 11.8
- 11
- 10
- 9
- 8
- 7 1 A-301.00
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- 3
- 2 1 A-302.00
- 1

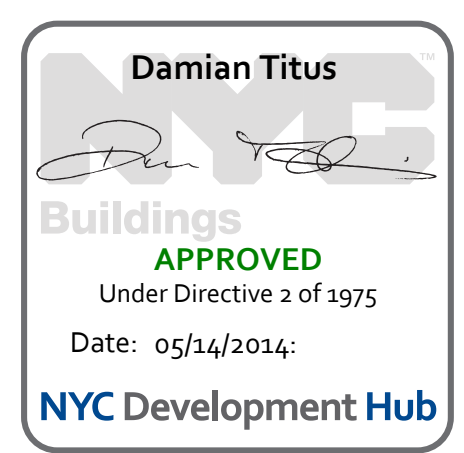
SOUTHEAST ENTRY TO FUTURE RETAIL PODIUM TO BE COORDINATED

501 WEST 30TH STREET TOWER C UNDER CONSTRUCTION BY SEPARATE PERMIT

6	DOB SUBMISSION	10/18/2013
5	L.I.R.R. - 100% M&P PLATFORM	11/22/2013
4	L.I.R.R. - 90% SUBMISSION	8/09/2013
3	NYC DOB Filing	6/17/2013
2	L.I.R.R. - 60% SUBMISSION	5/20/2013
1	L.I.R.R. - 30% SUBMISSION	2/15/2013
0	Description	Date



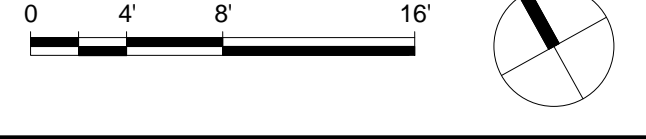
**1 UPPER PLATFORM LEVEL OVERALL PLANS**  
SCALE: 1/32" = 1'-0"



Date: 02/15/13  
Project No: 219  
Drawing No: 104.00  
Sheet Number: 104.00

**HYE -PL -A-104.00**  
**UPPER PLATFORM LEVEL OVERALL PLAN**

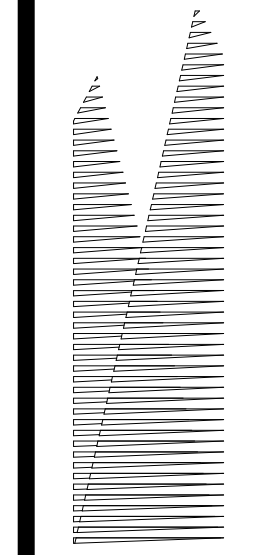
Drawing Title:  
**A-104.00**





**HUDSON YARDS - PLATFORM**

Address:  
 530 WEST 33RD STREET  
 NEW YORK, NY



Client  
 Related Companies  
 60 Columbus Circle  
 New York, NY 10023  
 TEL: 212.801.1000 FAX: 212.801.1048

Oxford Properties Group  
 320 Park Avenue, 17th Floor  
 New York, NY 10022  
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Construction Manager  
 Tishman Construction Corporation  
 100 Park Avenue, 5th Floor  
 New York, NY 10017  
 TEL: 212.708.3600

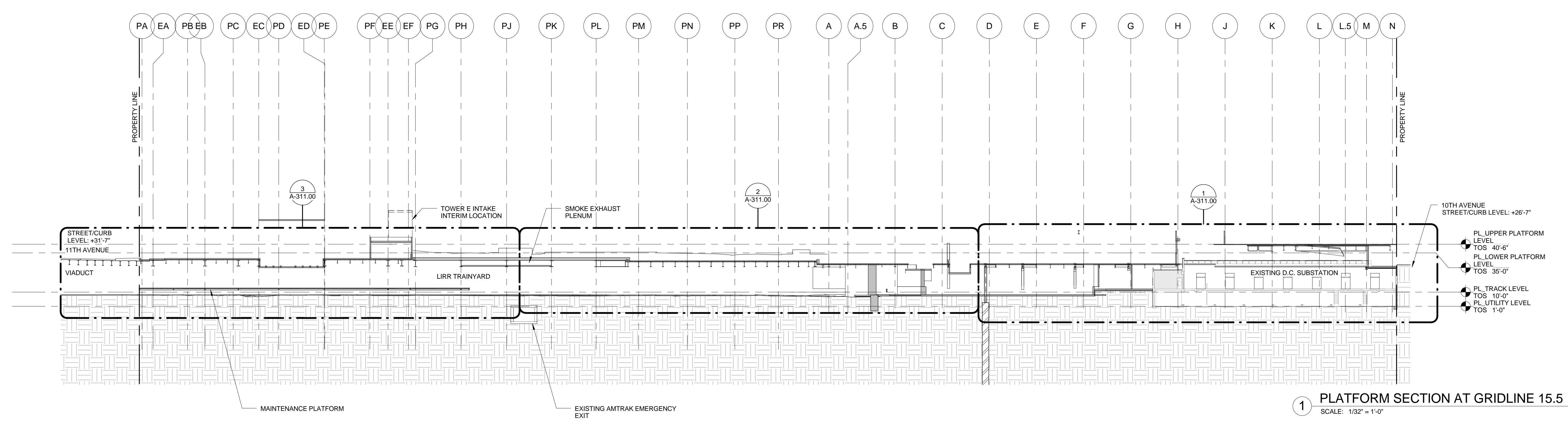
Architect  
 Kohn Pedersen Fox Associates  
 PC Architects & Planning Consultants  
 11 West 42nd Street  
 New York, New York 10036  
 TEL: 212.977.6500 FAX: 212.956.2526

Structural Engineer  
 Thornton Tomasetti, Inc.  
 51 Madison Avenue  
 New York, NY 10010  
 TEL: 917.661.7800 FAX: 917.661.7801

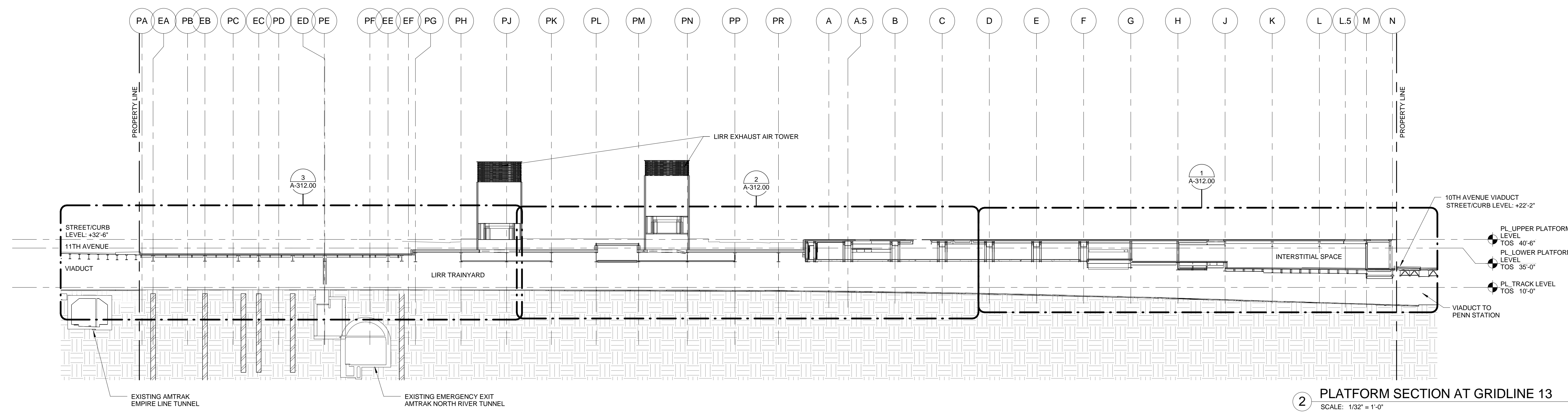
Mechanical, Electrical, Plumbing, Fire Protection  
 Parsons Transportation Group  
 100 Broadway  
 New York, NY 10005  
 TEL: 212.266.8300 FAX: 212.571.6825

LIRR Ventilation  
 Ove Arup & Partners P.C.  
 77 West Street  
 New York, NY 10005  
 212.896.3000

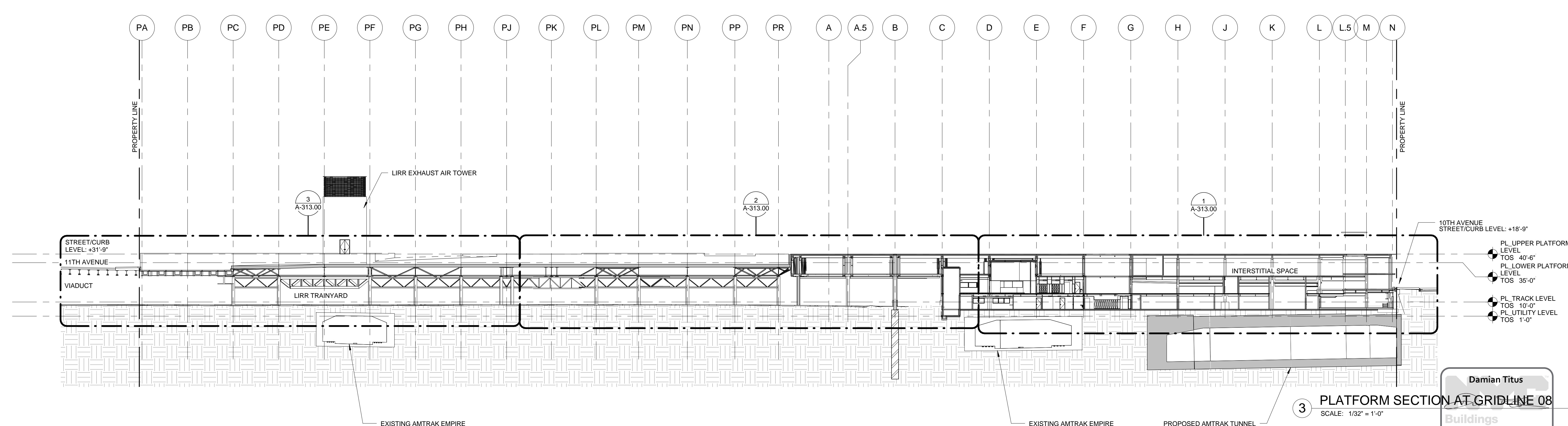
LIRR Substation  
 AECOM  
 605 Third Avenue  
 New York, NY 10158  
 TEL: 212.973.9200 FAX: 212.682.6172



**1 PLATFORM SECTION AT GRIDLINE 15.5**  
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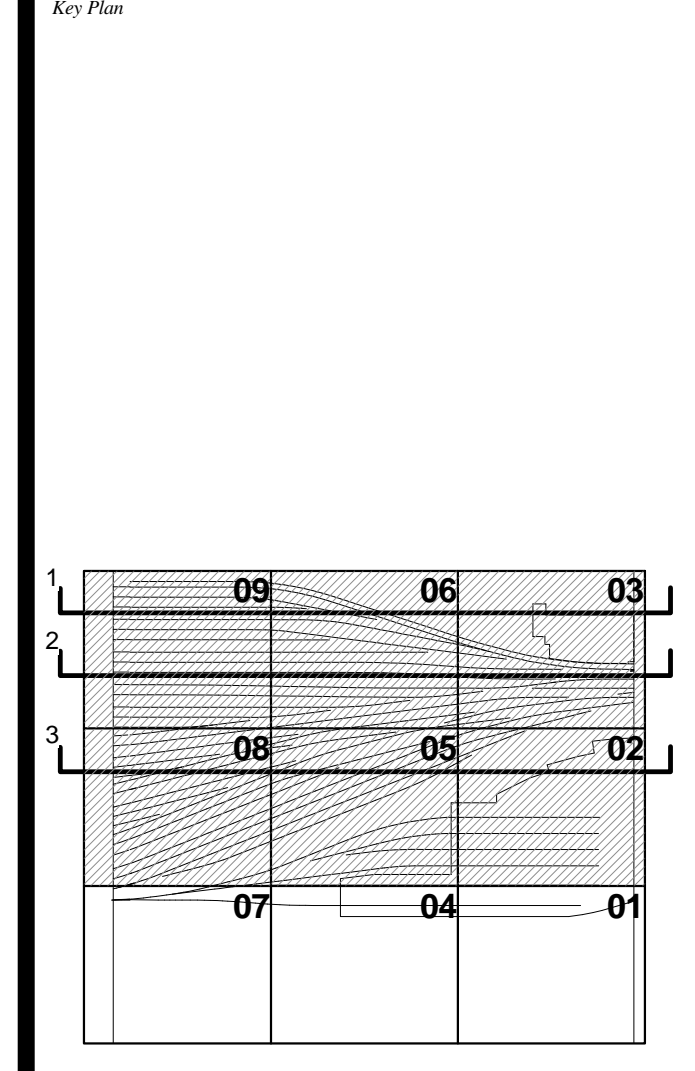


**2 PLATFORM SECTION AT GRIDLINE 13**  
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**3 PLATFORM SECTION AT GRIDLINE 08**  
 SCALE: 1/32" = 1'-0"

11	DOB SUBMISSION UPDATE	3/17/2014
10	DOB SUBMISSION UPDATE	2/12/2014
9	L.I.R.R. - Pre-Final 100%	11/22/2013
8	DOB SUBMISSION	10/18/2013
7	L.I.R.R. - 90% M&E SUBMISSION	10/04/2013
6	L.I.R.R. - 90% SUBMISSION	8/09/2013
5	L.I.R.R. - 60% M&E SUBMISSION	7/12/2013
4	NYC DOB Filing	6/17/2013
3	L.I.R.R. - 30% M&E SUBMISSION	6/14/2013
2	L.I.R.R. - 60% SUBMISSION	5/20/2013
1	L.I.R.R. - 30% SUBMISSION	2/15/2013
0	Description	Date

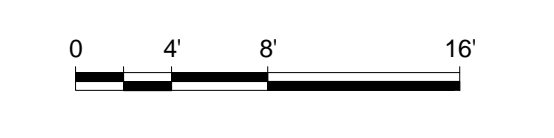


Date: 02/15/13  
 Project No: 219  
 Drawing No: 219  
 Sheet Number: 219  
 Drawing Title: HYE - PL - A-301.00

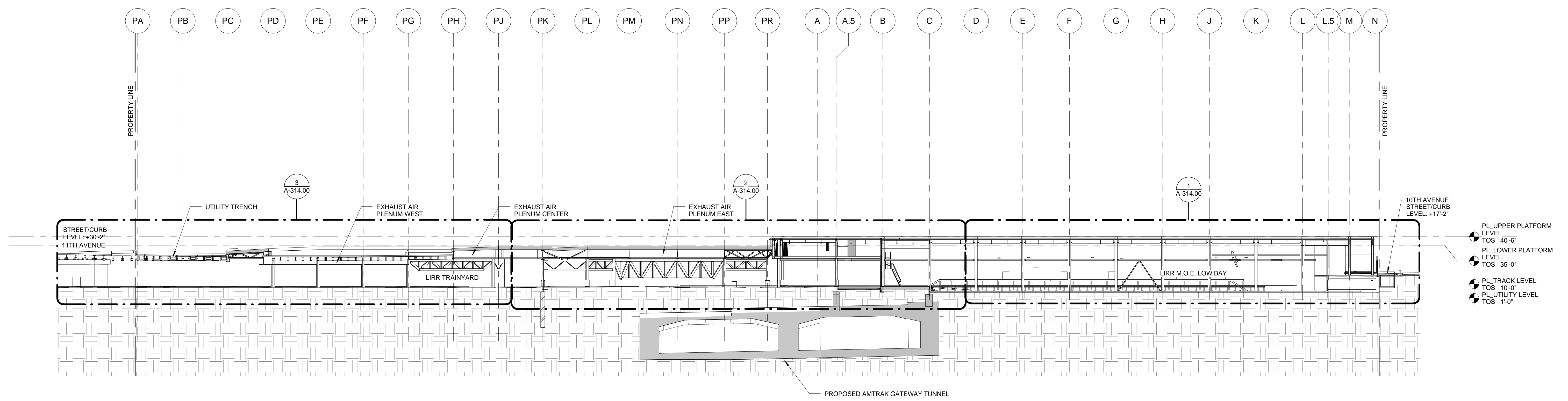
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Drawn by: **A-301.00**

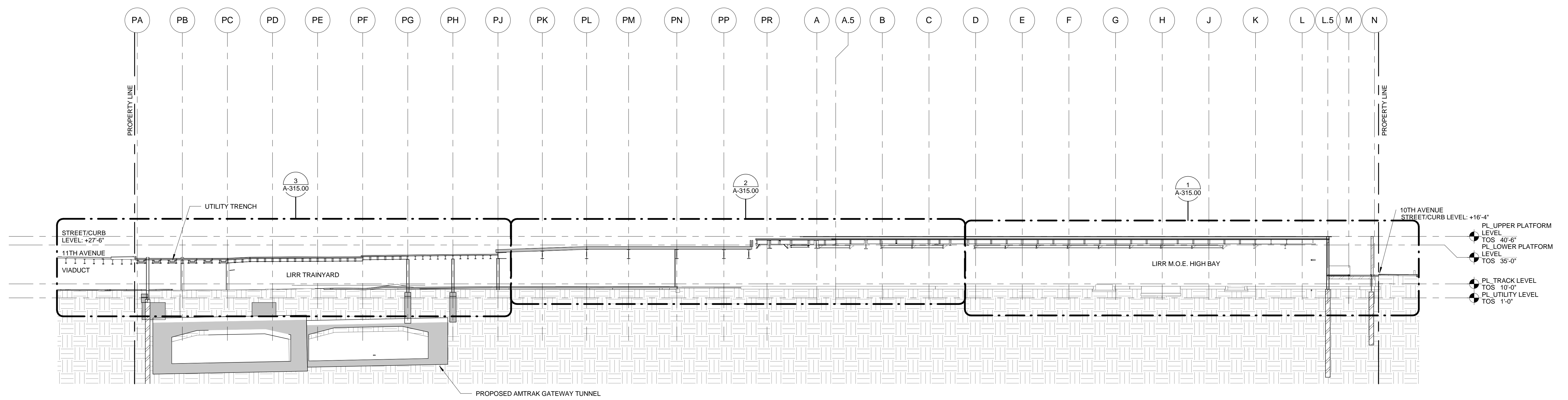
**Damian Titus**  
 Buildings **APPROVED**  
 Under Directive 3 of 1975  
 Date: 05/14/2014  
 NYC Development Hub



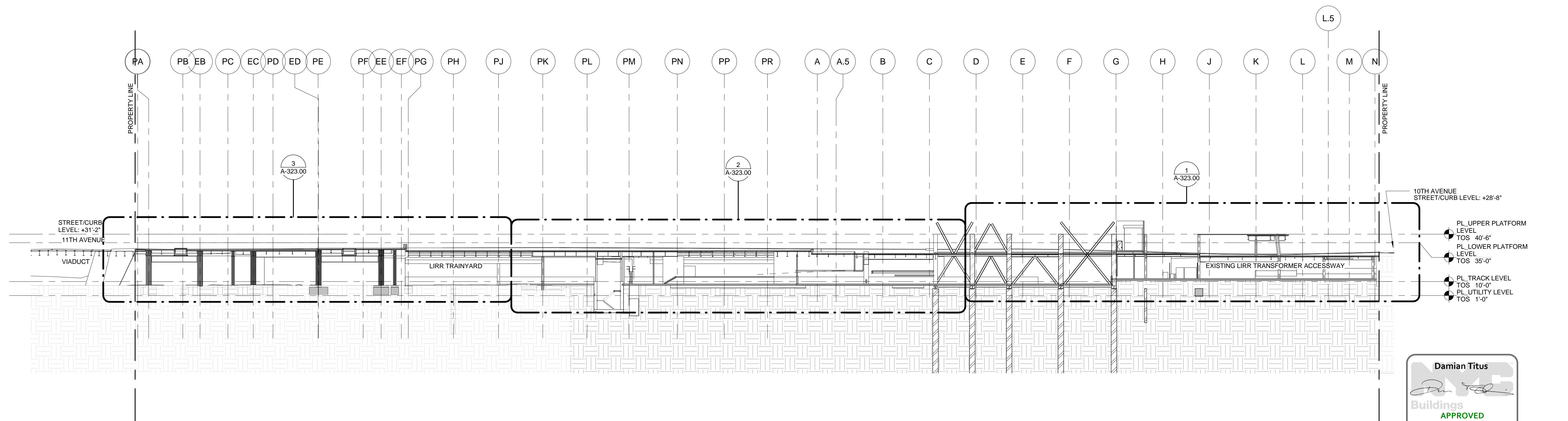




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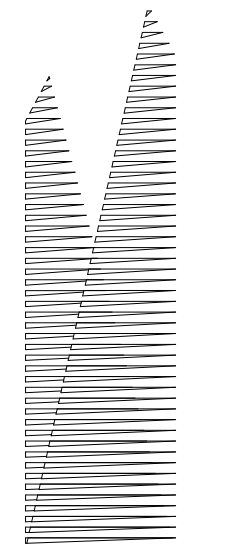
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3 PLATFORM SECTION AT GRIDLINE 04  
SCALE: 1/32" = 1'-0"

**HUDSON YARDS - PLATFORM**

Address:  
530 WEST 33RD STREET  
NEW YORK, NY



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Related Companies  
60 Columbus Circle  
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Oxford Properties Group  
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Construction Manager  
Fishman Construction Corporation  
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New York, NY 10017  
TEL: 212.708.3600

Architect  
Kohn Pedersen Fox Associates  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
TEL: 212.977.6500 FAX: 212.956.2526

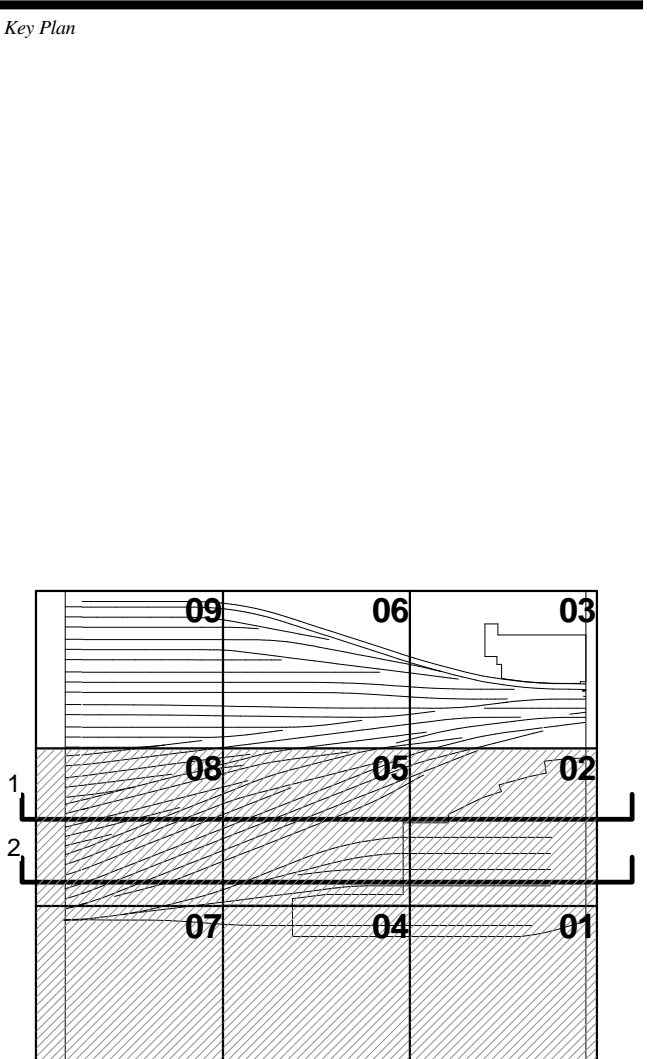
Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
TEL: 917.661.7800 FAX: 917.661.7801

Mechanical, Electrical, Plumbing, Fire Protection  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
TEL: 212.266.8300 FAX: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 West Street  
New York, NY 10005  
212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
TEL: 212.973.9200 FAX: 212.682.6172

11	DOB SUBMISSION UPDATE	3/17/2014
10	DOB SUBMISSION UPDATE	2/12/2014
9	L.I.R.R. - Pre-Final 100%	11/22/2013
8	MoE PLATFORM SUBMISSION	
7	DOB SUBMISSION	10/18/2013
6	L.I.R.R. - 90% MoE SUBMISSION	10/04/2013
5	L.I.R.R. - 60% MoE SUBMISSION	8/09/2013
4	L.I.R.R. - 60% MoE SUBMISSION	7/12/2013
3	NYC DOB Filing	6/17/2013
2	L.I.R.R. - 30% MoE SUBMISSION	6/14/2013
1	L.I.R.R. - 60% SUBMISSION	5/20/2013
0	L.I.R.R. - 30% SUBMISSION	2/15/2013
0	Description	Date

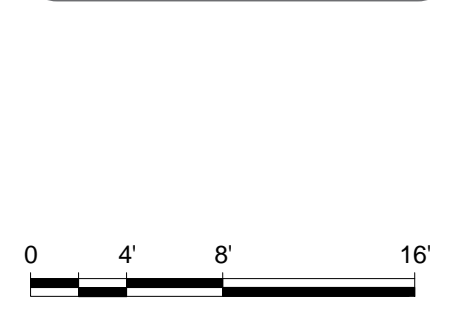
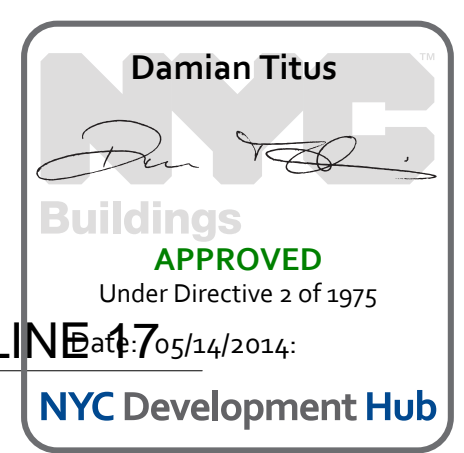


Date: 02/15/13  
Project No: 219  
Drawing No: 1  
Sheet Number: 1

**HYE - PL - A-302.00**

**OVERALL E/W SECTIONS**

Drawing Title  
**A-302.00**



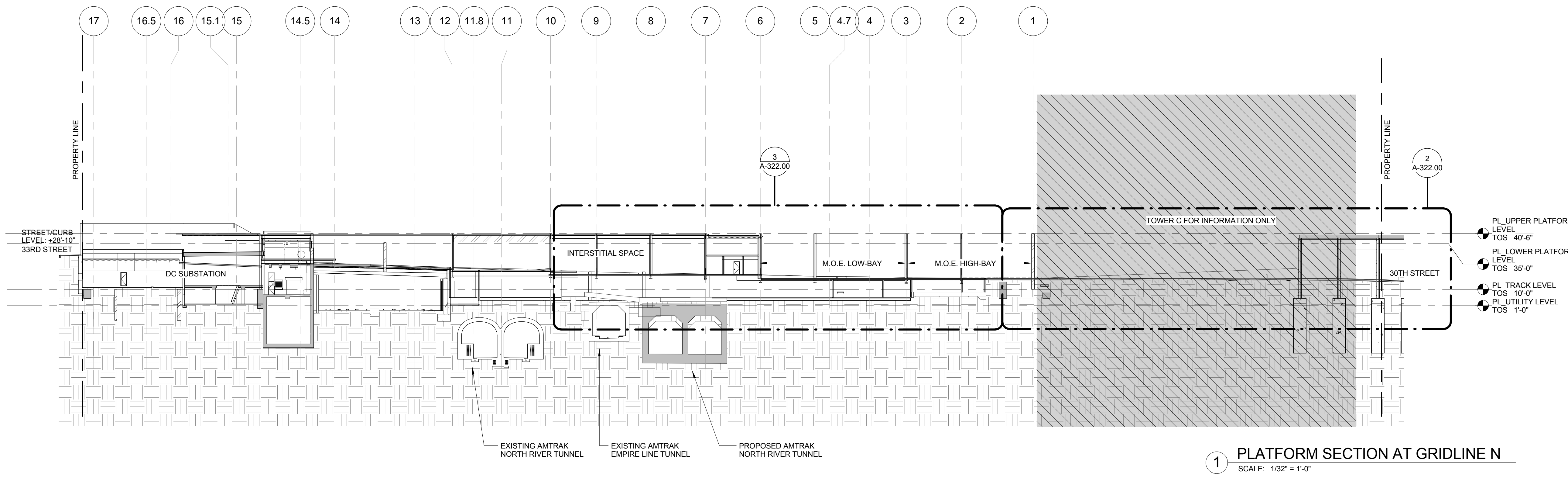
APPROVED Under Directive 3 of 1975 7/5/14/2014

NYC Development Hub

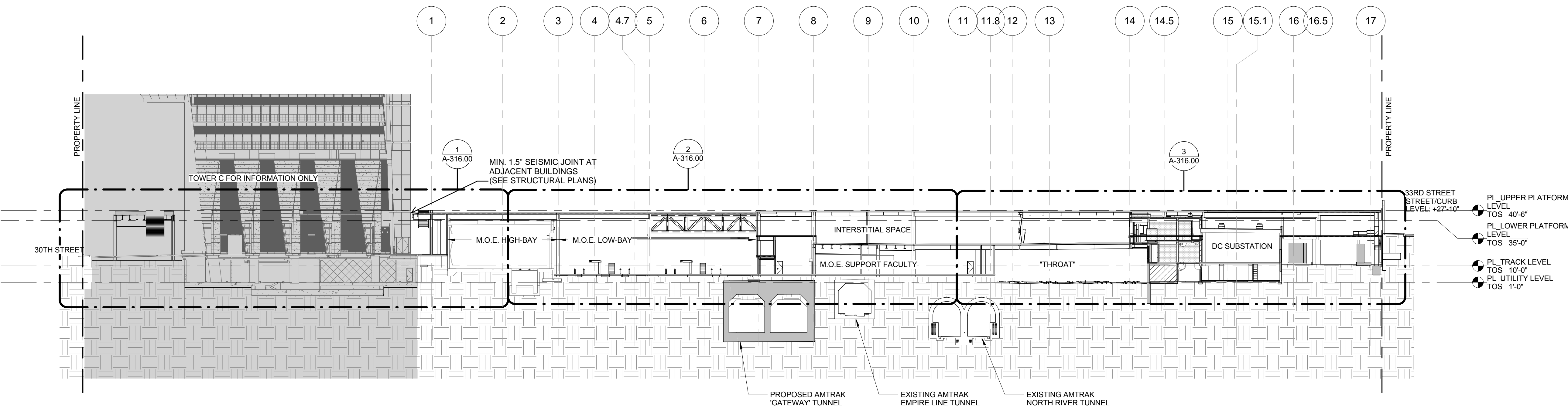
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OVERALL E/W SECTIONS  
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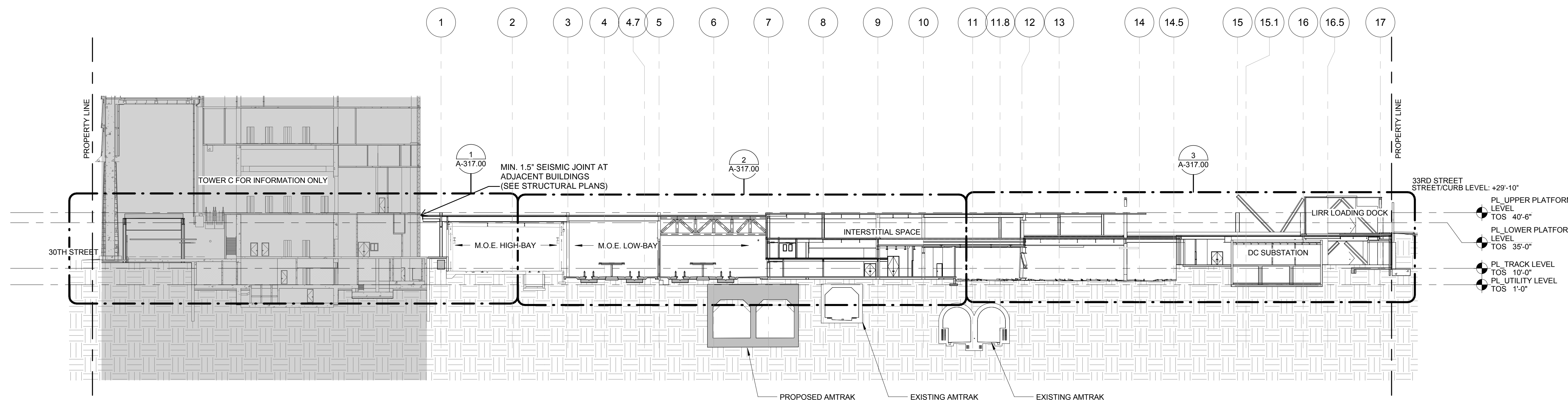




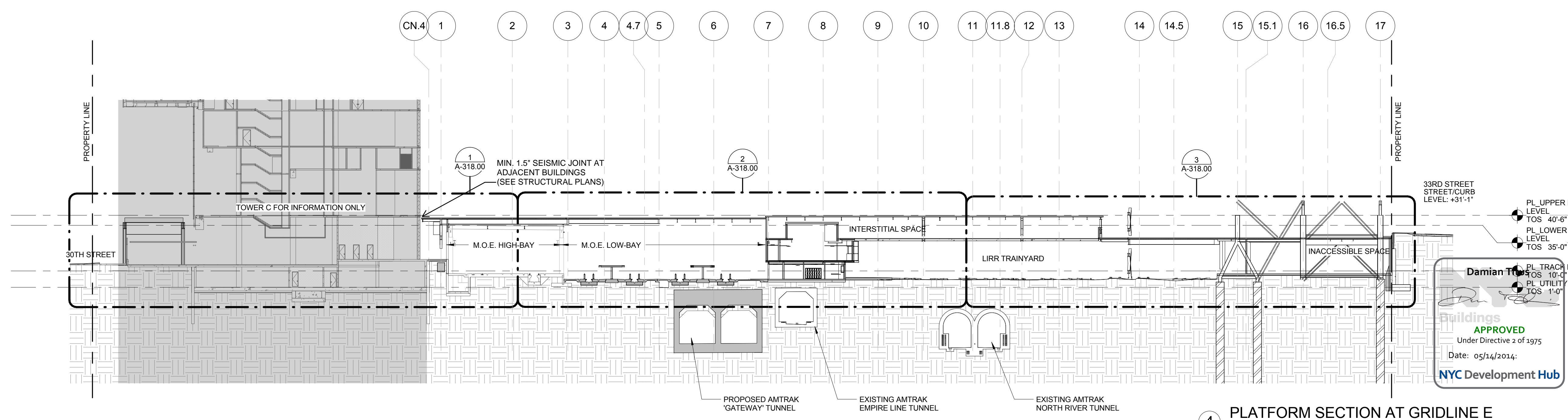
**1 PLATFORM SECTION AT GRIDLINE N**  
SCALE: 1/32" = 1'-0"



**2 PLATFORM SECTION AT GRIDLINE K50**  
SCALE: 1/32" = 1'-0"

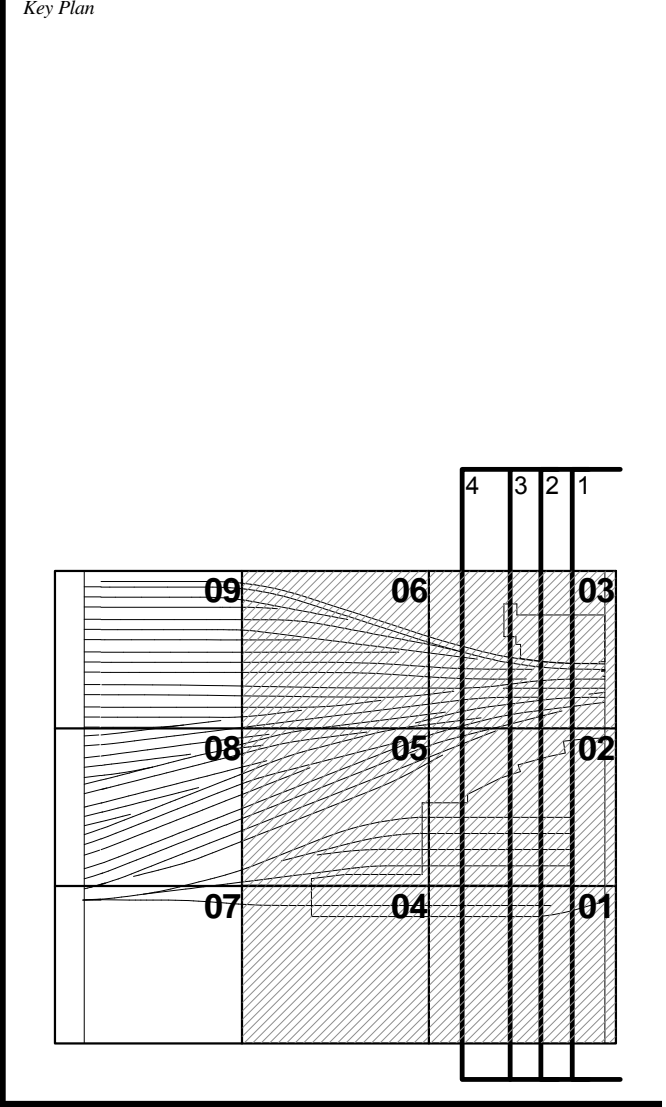


**3 PLATFORM SECTION AT GRIDLINE G50**  
SCALE: 1/32" = 1'-0"



**4 PLATFORM SECTION AT GRIDLINE E**  
SCALE: 1/32" = 1'-0"

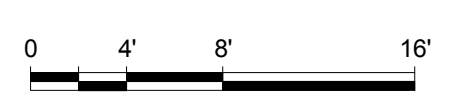
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8.	DOB SUBMISSION	10/18/2013
7.	L.I.R.R. - 100% MoE PLATFORM	11/22/2013
6.	L.I.R.R. - 90% SUBMISSION	8/09/2013
5.	L.I.R.R. - 60% MoE SUBMISSION	7/12/2013
4.	NYC DOB Filing	6/17/2013
3.	L.I.R.R. - 30% MoE SUBMISSION	6/14/2013
2.	L.I.R.R. - 60% SUBMISSION	5/20/2013
1.	L.I.R.R. - 30% SUBMISSION	2/15/2013
0.	Description	Date



02/15/13  
2138  
Damian [Signature]  
APPROVED  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub

**HYE - PL - A-303.00**

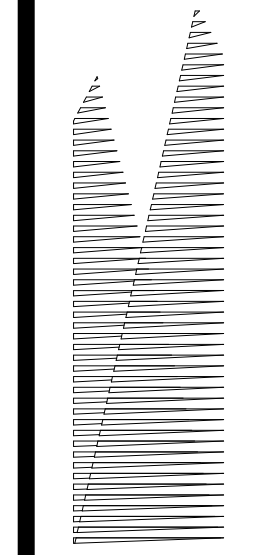
**OVERALL NS SECTIONS**  
A-303.00





**HUDSON YARDS - PLATFORM**

Address:  
 530 WEST 33RD STREET  
 NEW YORK, NY



Client  
 Related Companies  
 60 Columbus Circle  
 New York, NY 10023  
 TEL: 212.801.1000 FAX: 212.801.1048

Oxford Properties Group  
 320 Park Avenue, 17th Floor  
 New York, NY 10022  
 TEL: 212.986.7514 FAX: 212.986.7510

Construction Manager  
 Fishman Construction Corporation  
 100 Park Avenue, 5th Floor  
 New York, NY 10017  
 TEL: 212.708.3600

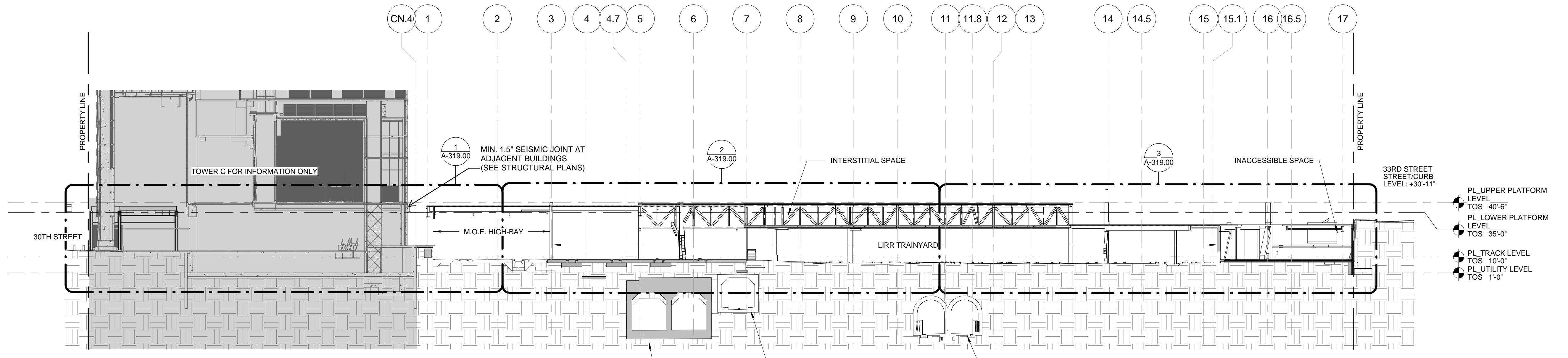
Architect  
 Kohn Pedersen Fox Associates  
 PC Architects & Planning Consultants  
 11 West 42nd Street  
 New York, New York 10036  
 TEL: 212.977.6500 FAX: 212.956.2526

Structural Engineer  
 Thornton Tomasetti, Inc.  
 51 Madison Avenue  
 New York, NY 10010  
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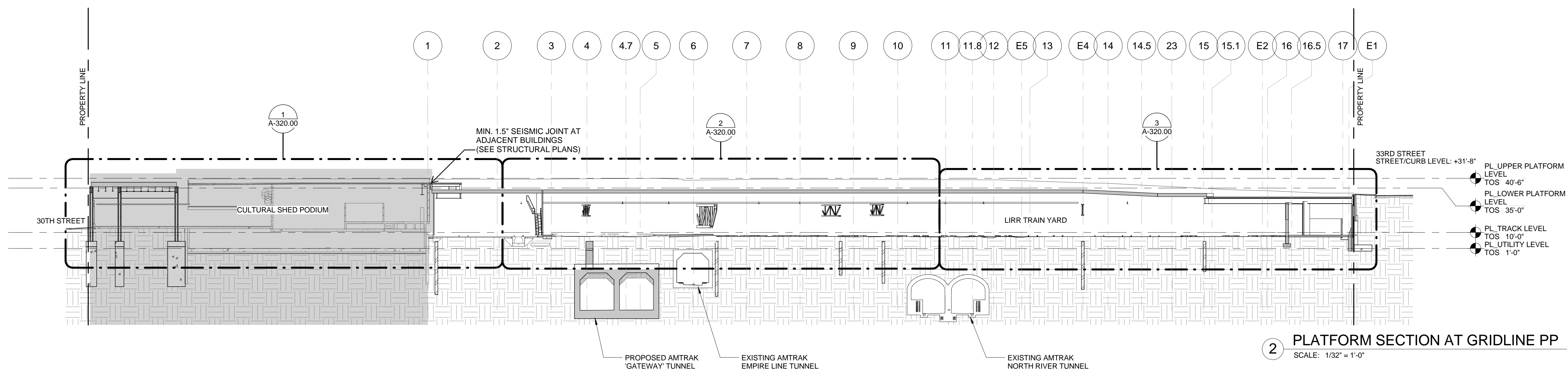
Mechanical, Electrical, Plumbing, Fire Protection  
 Parsons Transportation Group  
 100 Broadway  
 New York, NY 10005  
 TEL: 212.266.8300 FAX: 212.571.6825

LIRR Ventilation  
 One Arup & Partners P.C.  
 77 Water Street  
 New York, NY 10005  
 212.896.3000

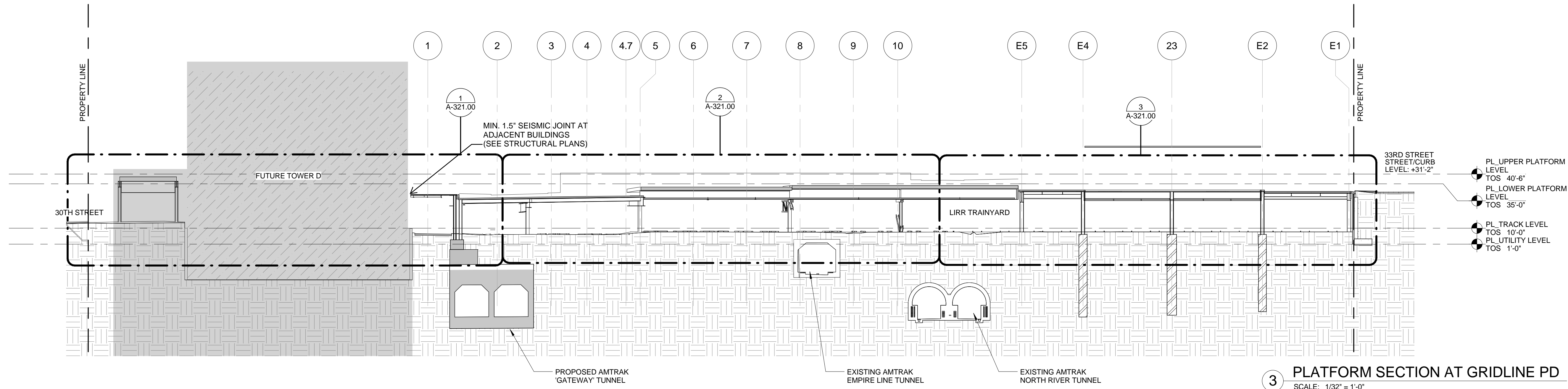
LIRR Substation  
 AECOM  
 605 Third Avenue  
 New York, NY 10158  
 TEL: 212.973.9200 FAX: 212.682.6172



**1 PLATFORM SECTION AT GRIDLINE B50**  
 SCALE: 1/32" = 1'-0"

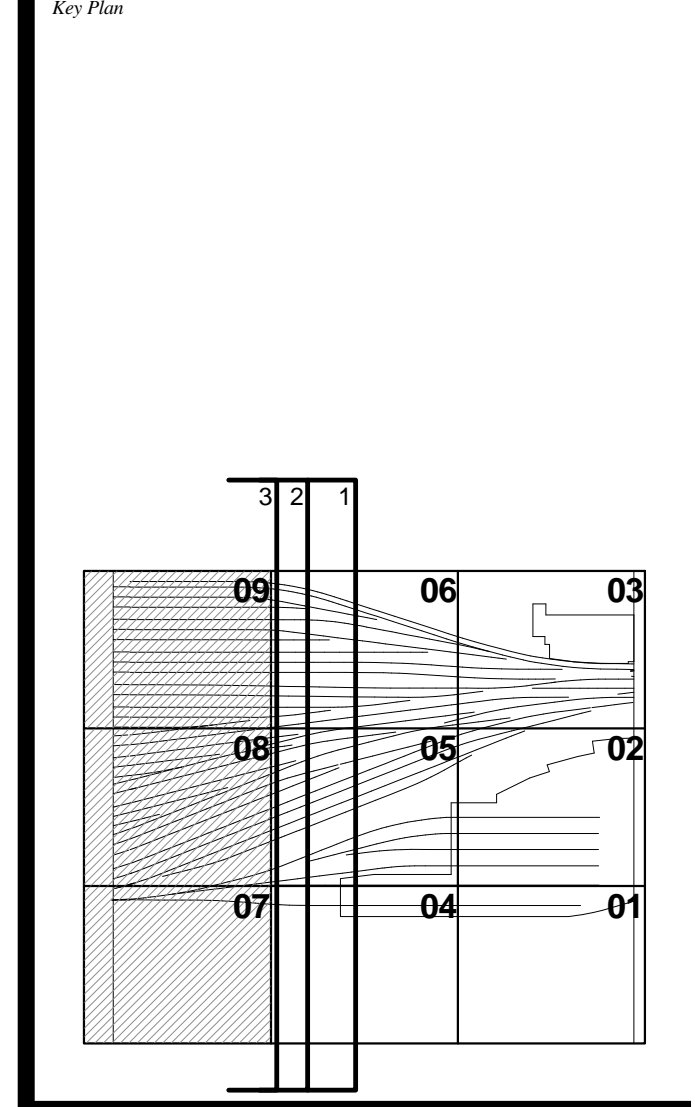


**2 PLATFORM SECTION AT GRIDLINE PP**  
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**3 PLATFORM SECTION AT GRIDLINE PD**  
 SCALE: 1/32" = 1'-0"

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9	DOB SUBMISSION	10/18/2013
8	L.I.R.R. - 10% M&E SUBMISSION	11/22/2013
7	L.I.R.R. - 50% M&E SUBMISSION	10/04/2013
6	L.I.R.R. - 90% SUBMISSION	8/09/2013
5	L.I.R.R. - 60% M&E SUBMISSION	7/12/2013
4	NYC DOB Filing	6/17/2013
3	L.I.R.R. - 30% M&E SUBMISSION	6/14/2013
2	L.I.R.R. - 60% SUBMISSION	5/20/2013
1	L.I.R.R. - 30% SUBMISSION	2/15/2013
0	Description	Date



**Damian Titus**  
 Buildings  
 APPROVED  
 Under Directive 3 of 1975  
 Date: 05/14/2014  
 NYC Development Hub

Date: 02/15/13  
 Project No: 219  
 Drawn By: [Signature]  
 Sheet Number: [Signature]  
 Drawing Title: [Signature]

**HYE -PL -A-304.00**

**OVERALL NS SECTIONS**

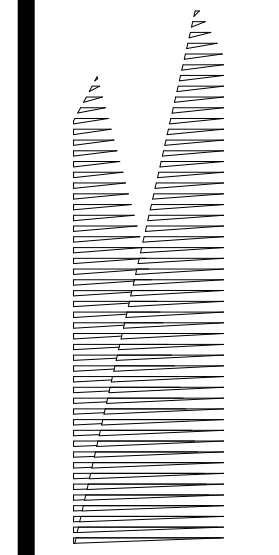
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**A-304.00**











Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
TEL: 212.801.1000 FAX: 212.801.1048

Oxford Properties Group  
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Architect  
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New York, NY 10010  
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Structural Engineer  
Thornton Tomasetti, Inc.  
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Mechanical, Electrical, Plumbing, Fire Protection  
Parsons Transportation Group  
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New York, NY 10005  
TEL: 212.266.8300 FAX: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 West Street  
New York, NY 10005  
212.896.3000

LIRR Substation  
ARCOSM  
605 Third Avenue  
New York, NY 10158  
TEL: 212.973.9300 FAX: 212.682.6172

3	DOB SUBMISSION	10/18/2013
4	L.I.R.R. - 100% MoE PLATFORM	11/22/2013
3	L.I.R.R. - 90% SUBMISSION	8/9/2013
2	NYC DOB FILE	6/17/2013
1	L.I.R.R. - 60% SUBMISSION	5/29/2013
0	Description	Date

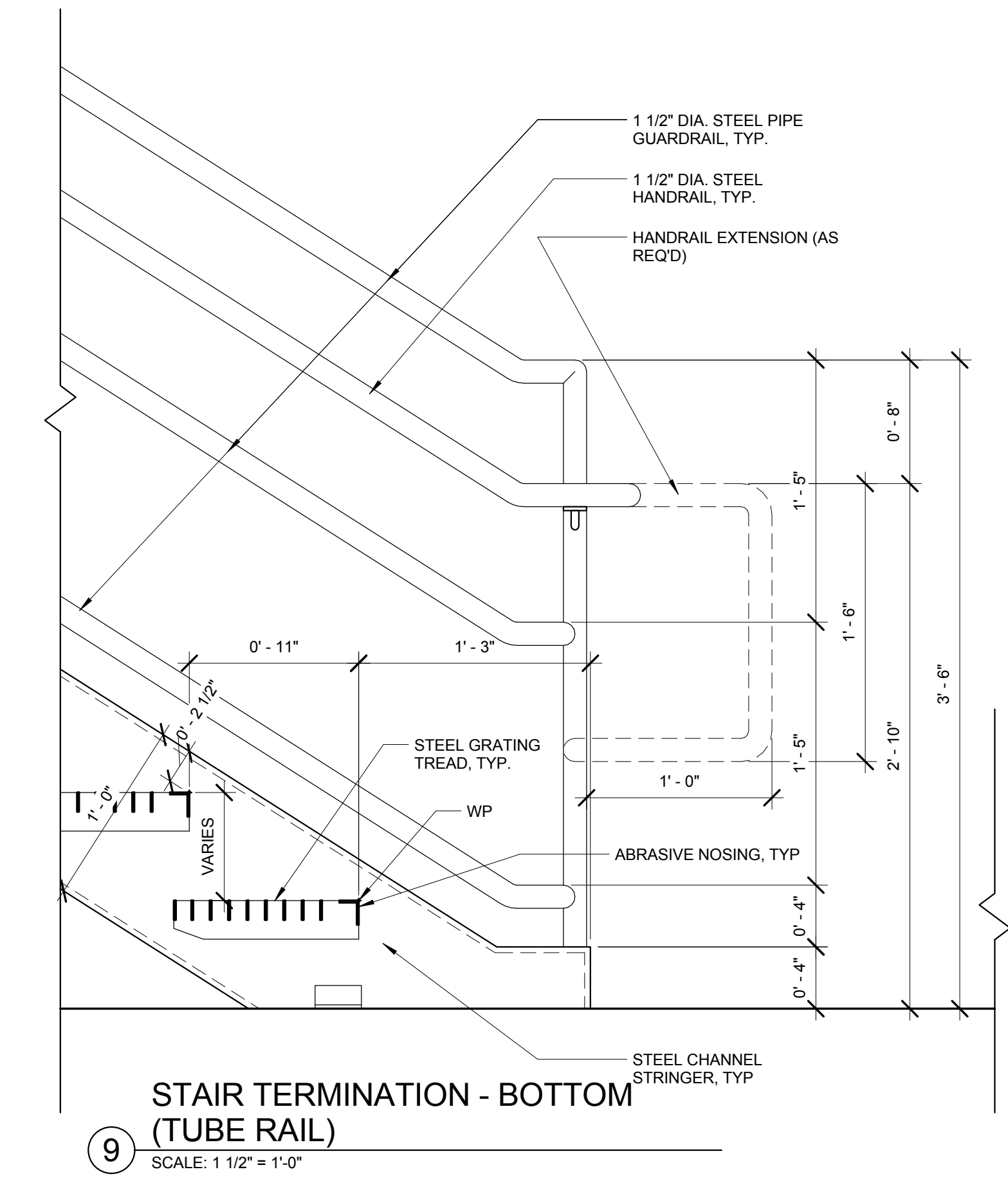
Rev Plot

Date: 12/14/2012  
Project No: 2159  
Drawing No:  
Sheet Number:  
Drawing Title:

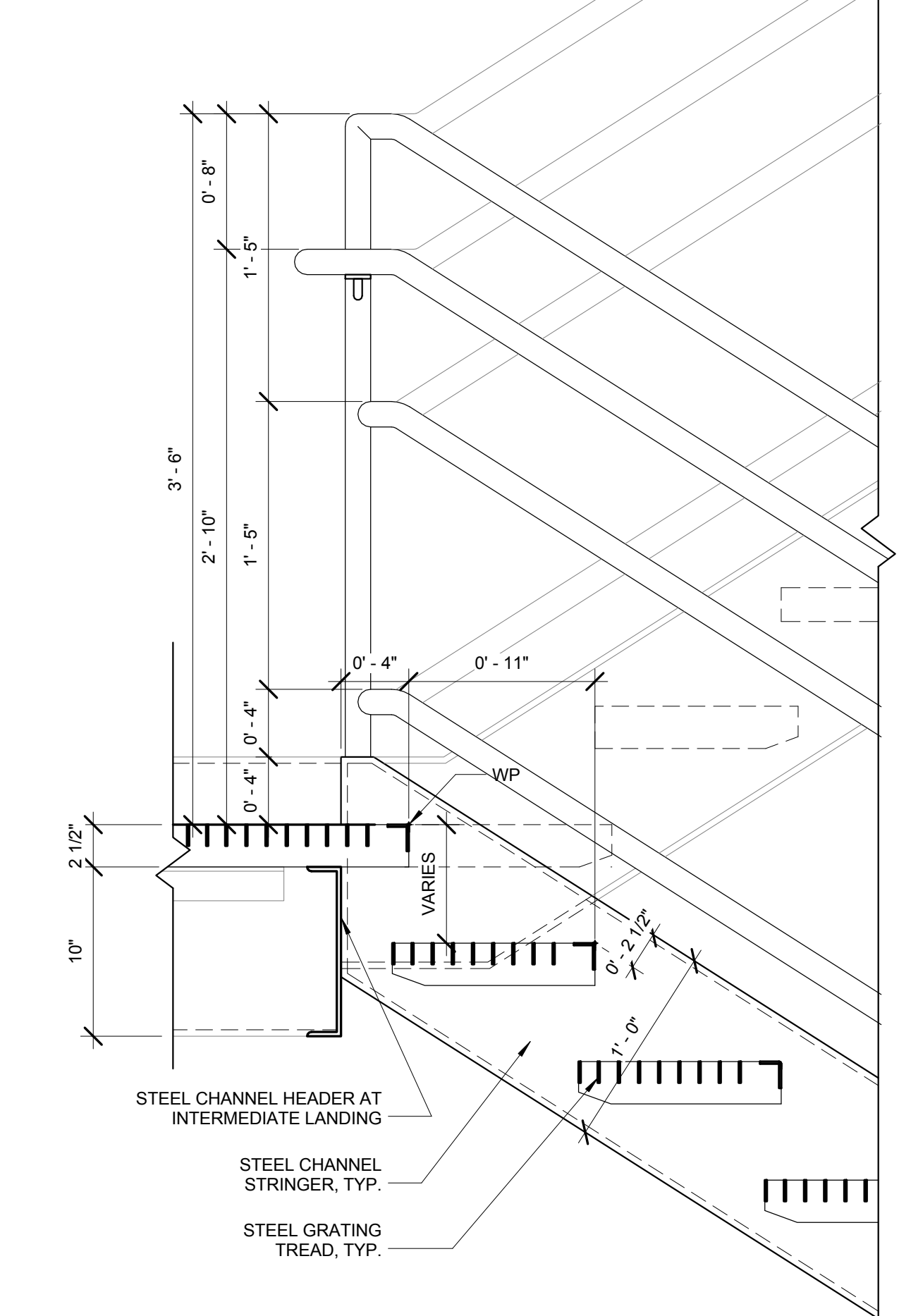
**HYE-PL-A-520.00**

**TYPICAL STAIR DETAILS**

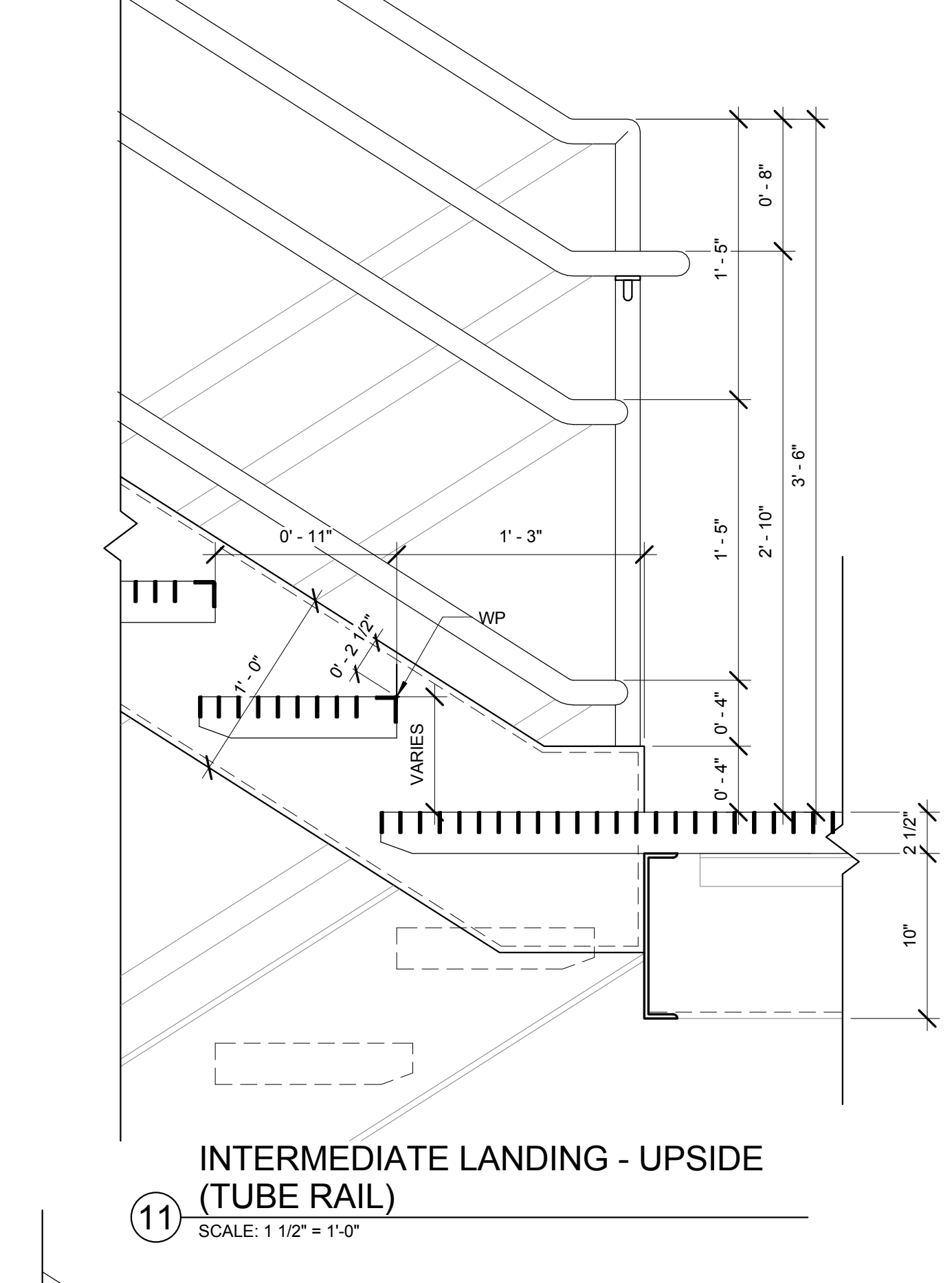
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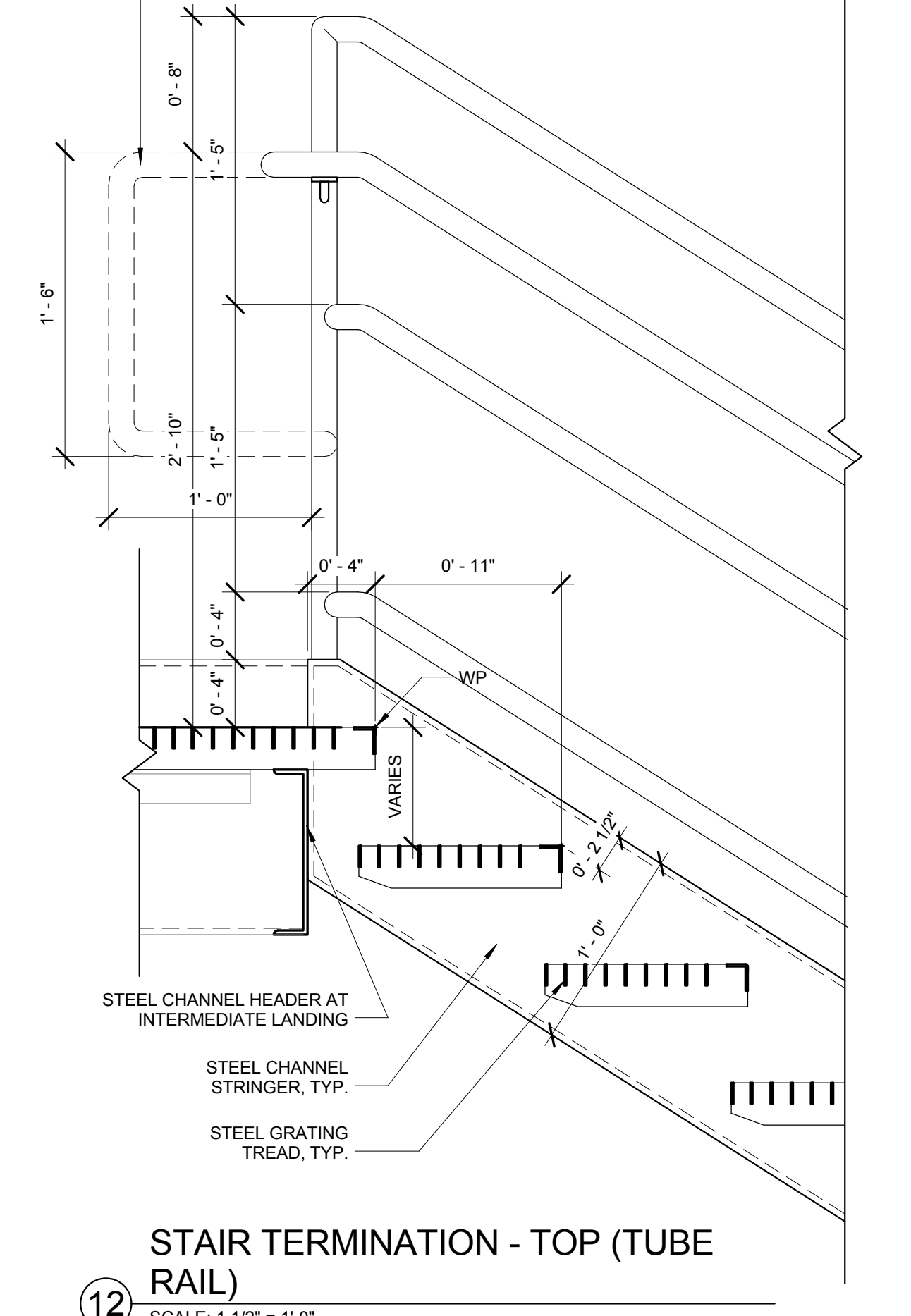
**9** STAIR TERMINATION - BOTTOM (TUBE RAIL)  
SCALE: 1 1/2" = 1'-0"



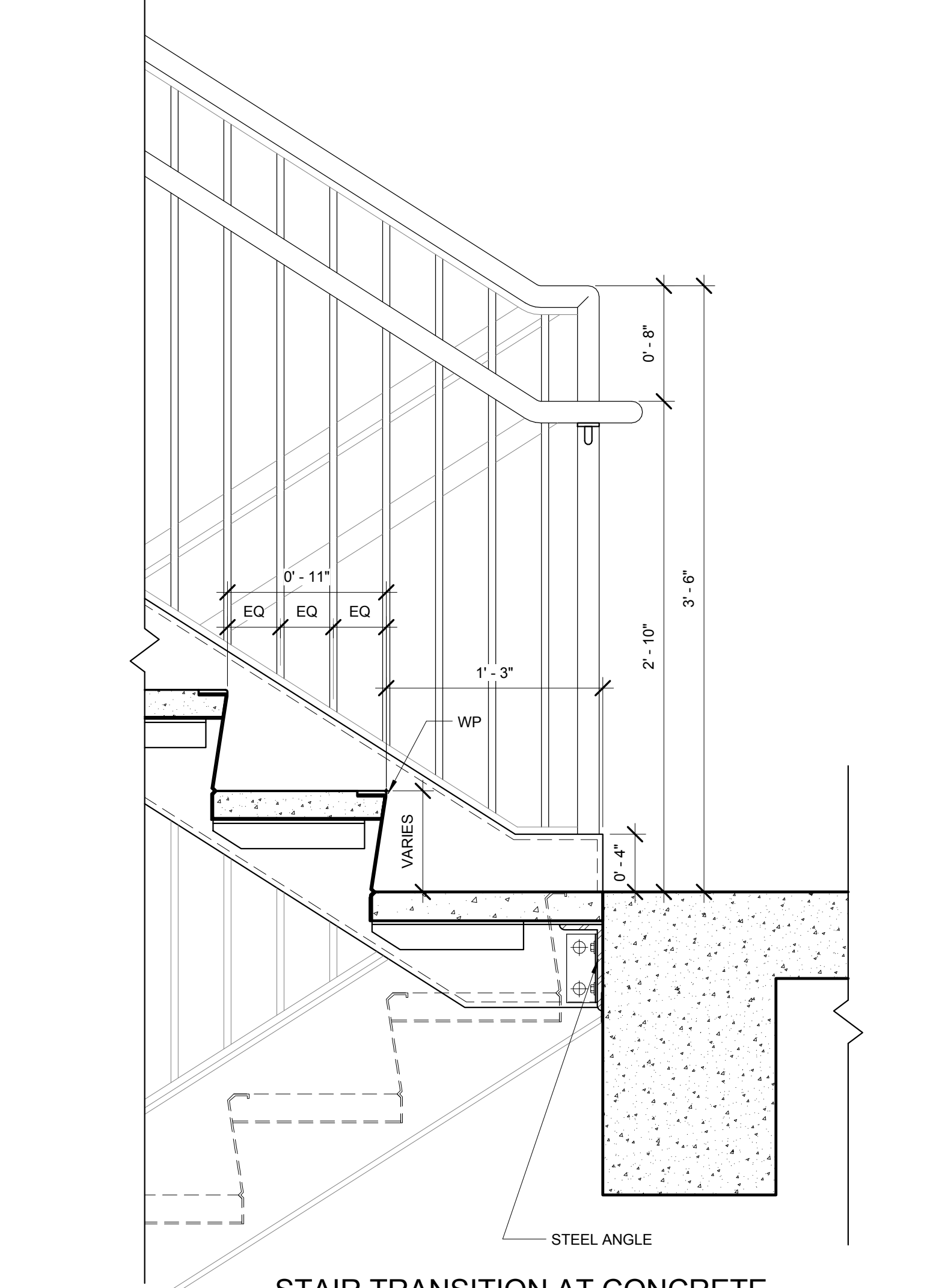
**10** INTERMEDIATE LANDING - DOWNSIDE (TUBE RAIL)  
SCALE: 1 1/2" = 1'-0"



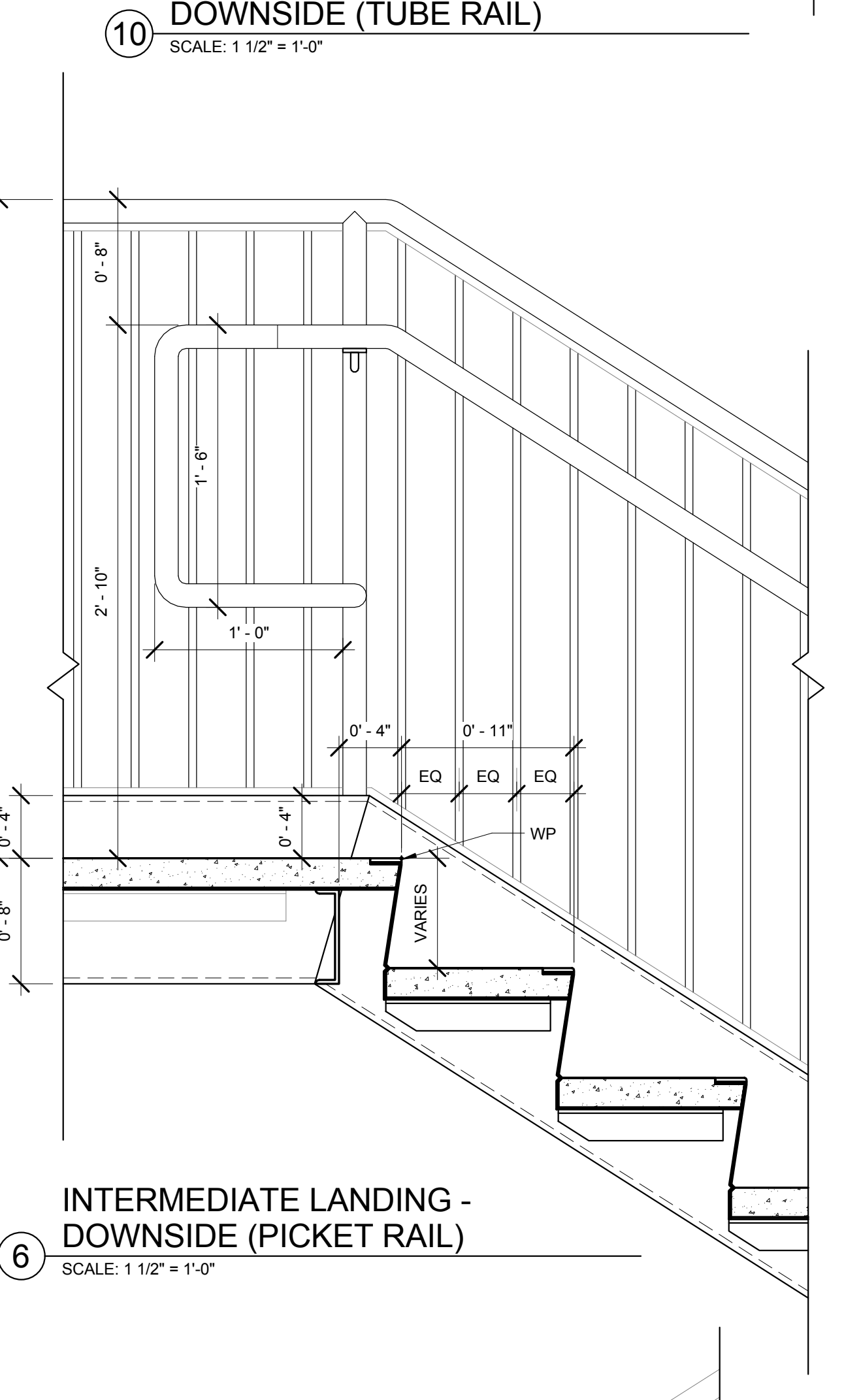
**11** INTERMEDIATE LANDING - UPSIDE (TUBE RAIL)  
SCALE: 1 1/2" = 1'-0"



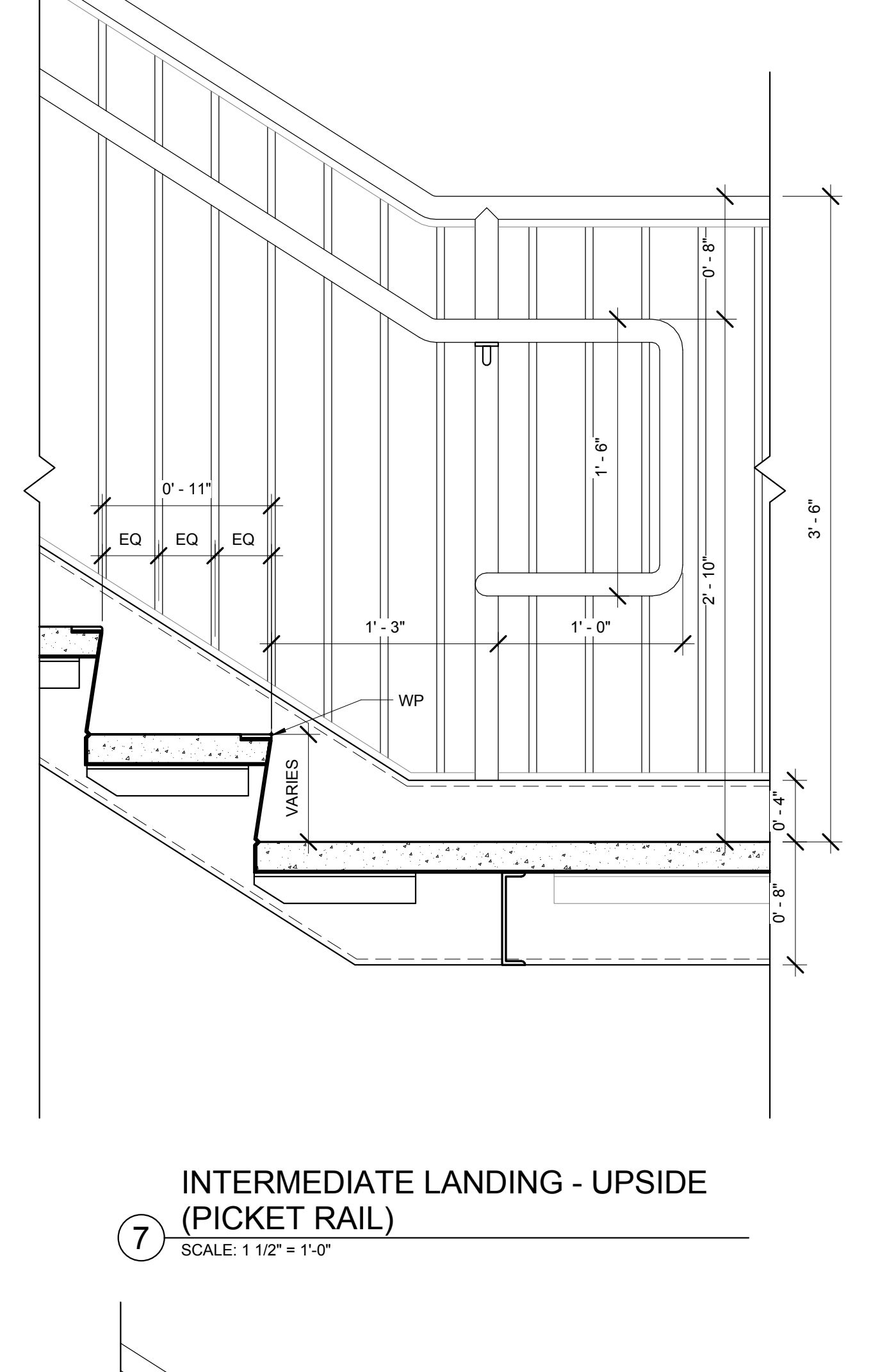
**12** STAIR TERMINATION - TOP (TUBE RAIL)  
SCALE: 1 1/2" = 1'-0"



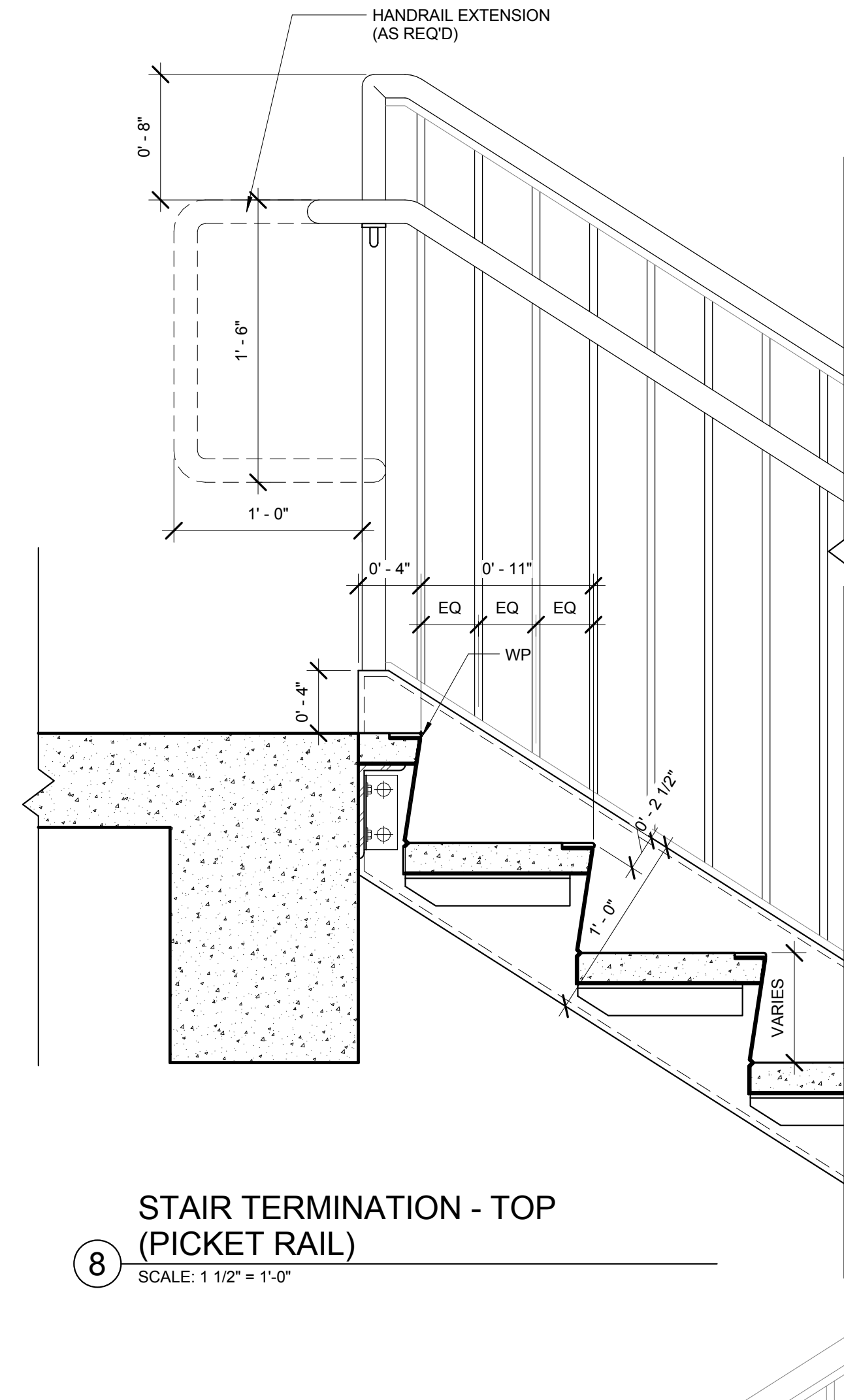
**5** STAIR TRANSITION AT CONCRETE SLAB - UPSIDE (PICKET RAIL)  
SCALE: 1 1/2" = 1'-0"



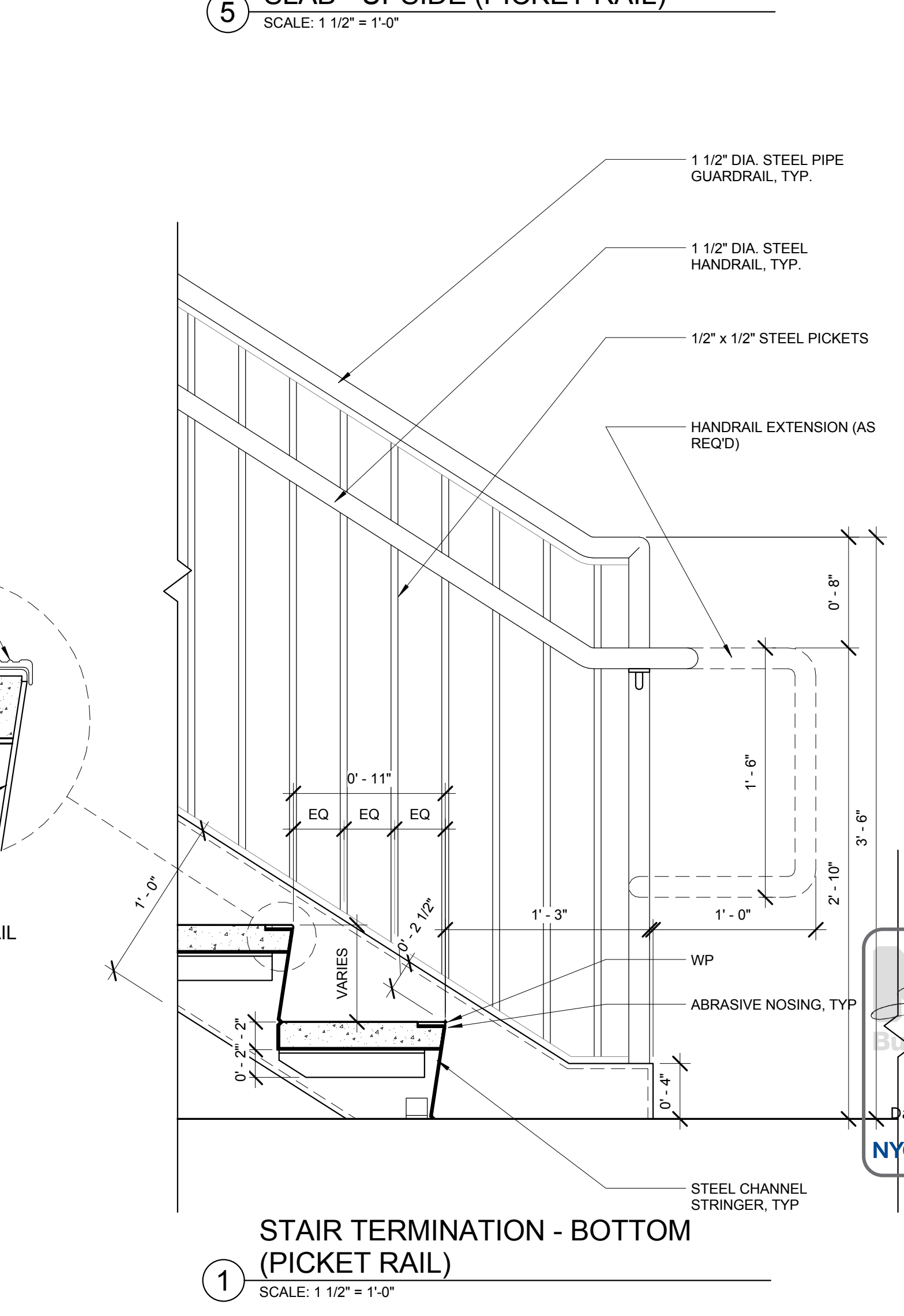
**6** INTERMEDIATE LANDING - DOWNSIDE (PICKET RAIL)  
SCALE: 1 1/2" = 1'-0"



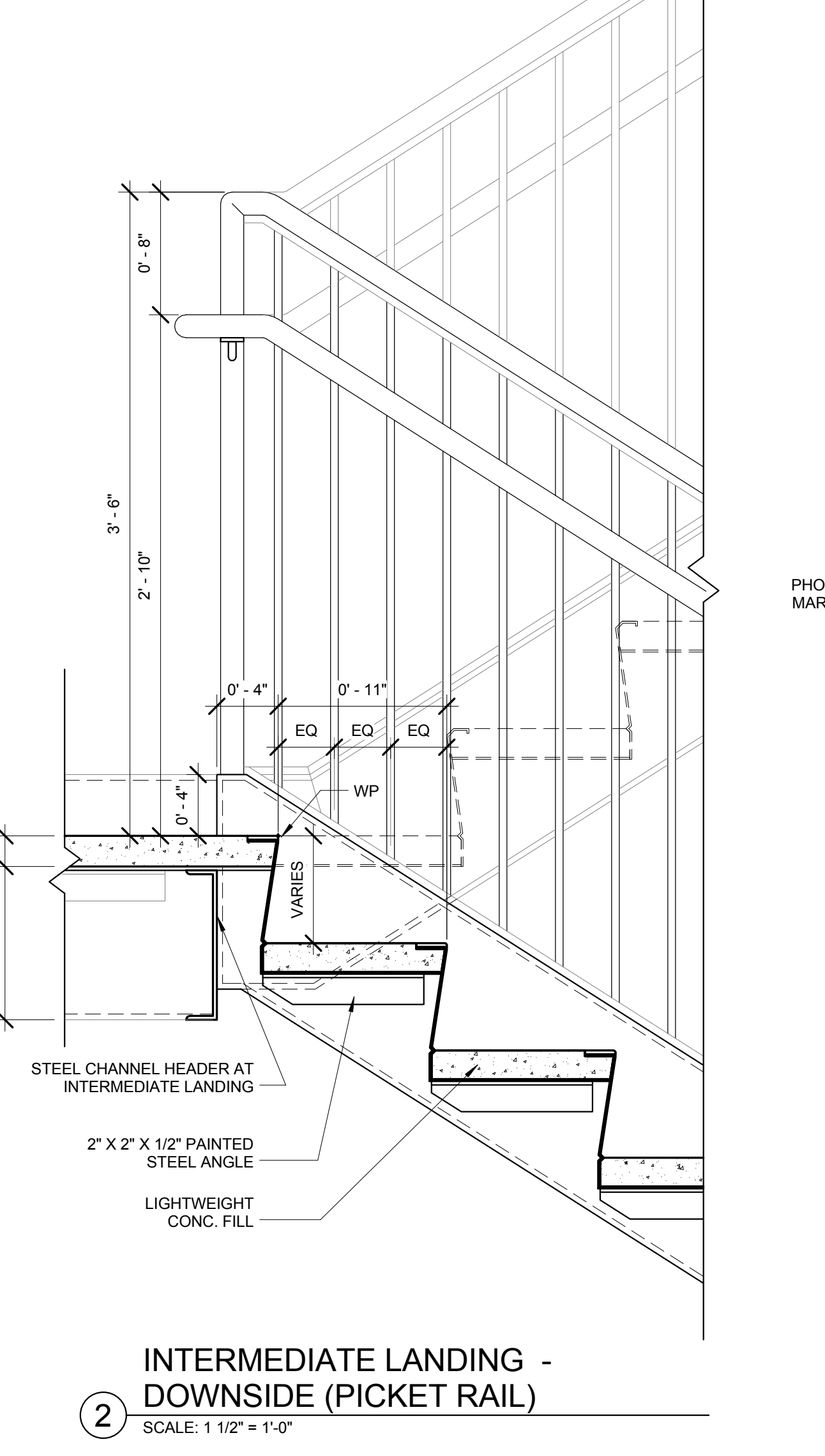
**7** INTERMEDIATE LANDING - UPSIDE (PICKET RAIL)  
SCALE: 1 1/2" = 1'-0"



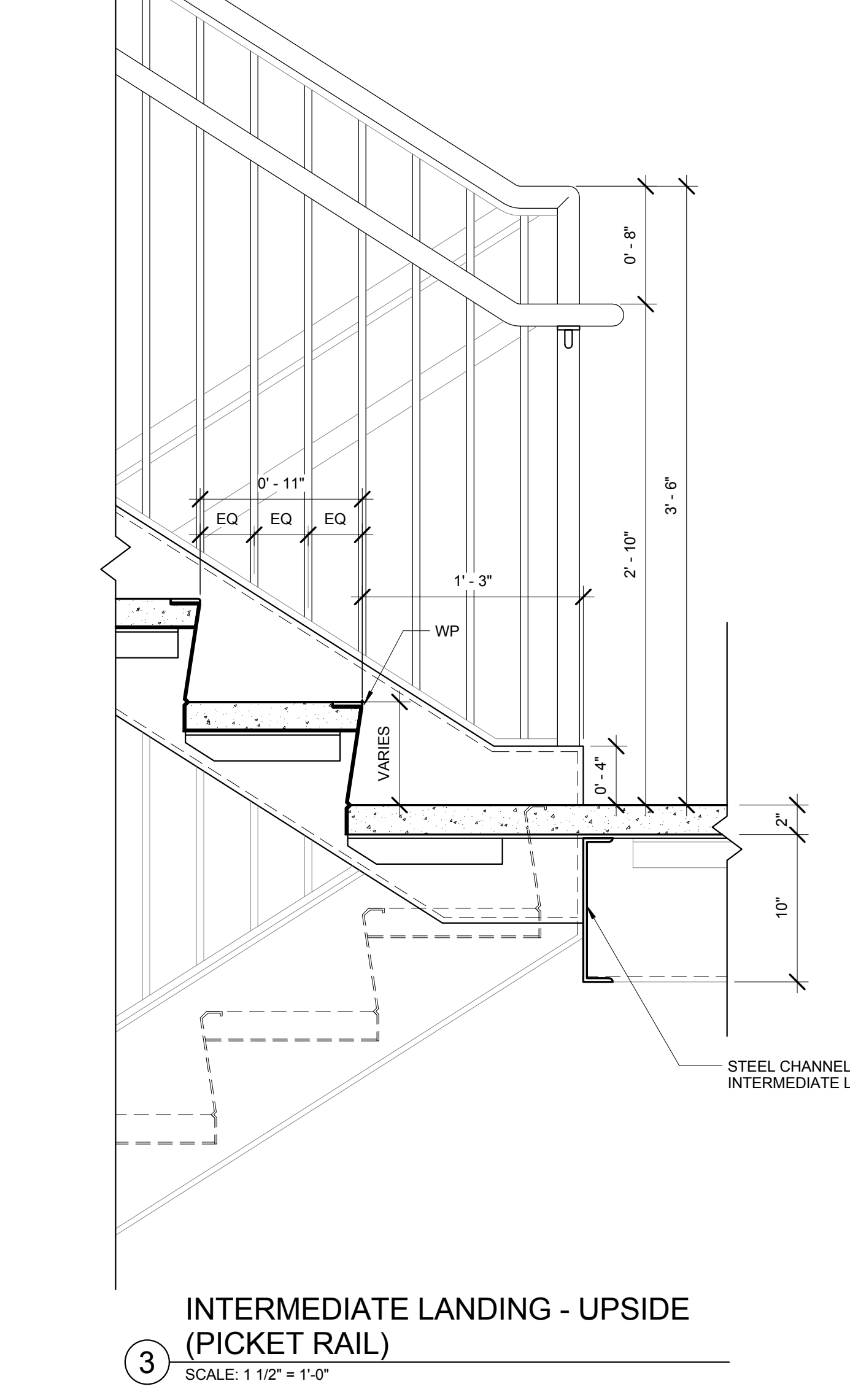
**8** STAIR TERMINATION - TOP (PICKET RAIL)  
SCALE: 1 1/2" = 1'-0"



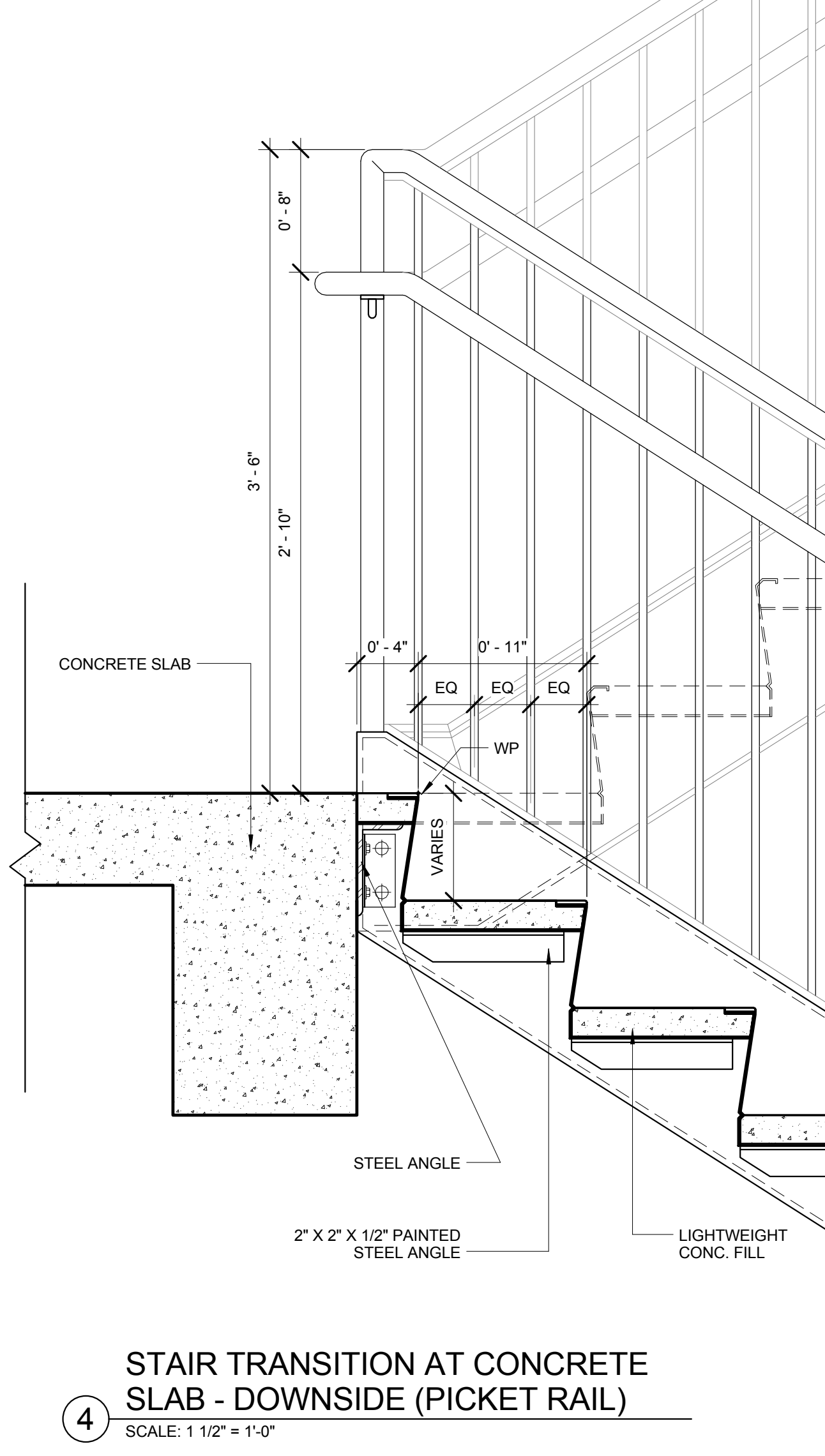
**1** STAIR TERMINATION - BOTTOM (PICKET RAIL)  
SCALE: 1 1/2" = 1'-0"



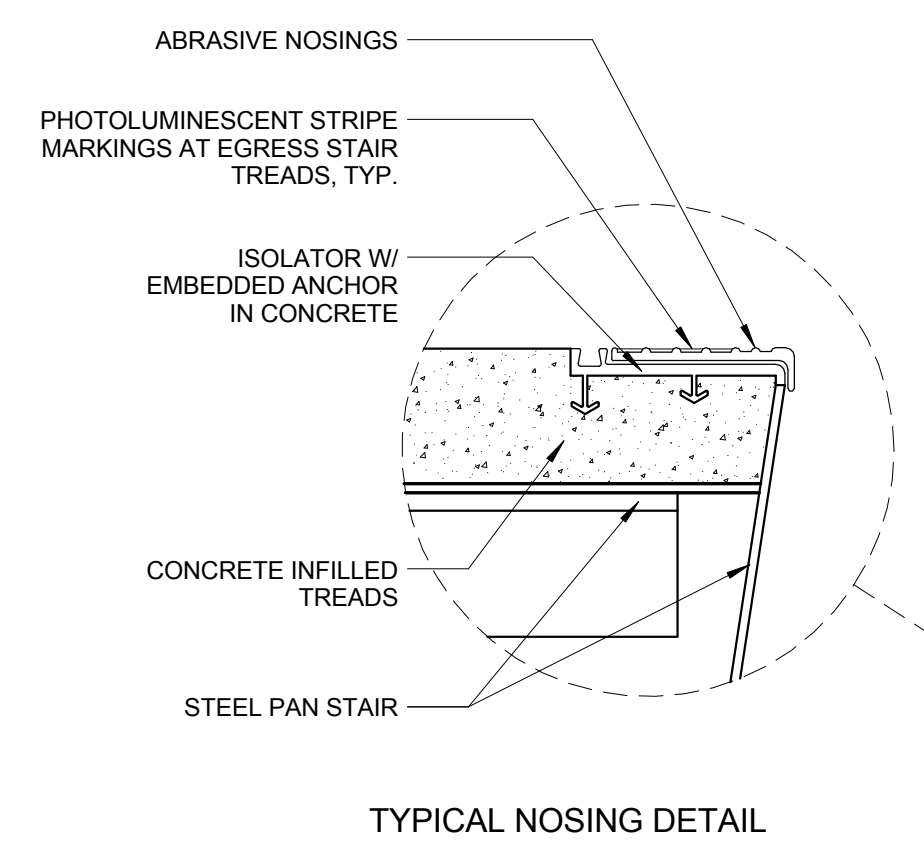
**2** INTERMEDIATE LANDING - DOWNSIDE (PICKET RAIL)  
SCALE: 1 1/2" = 1'-0"



**3** INTERMEDIATE LANDING - UPSIDE (PICKET RAIL)  
SCALE: 1 1/2" = 1'-0"



**4** STAIR TRANSITION AT CONCRETE SLAB - DOWNSIDE (PICKET RAIL)  
SCALE: 1 1/2" = 1'-0"

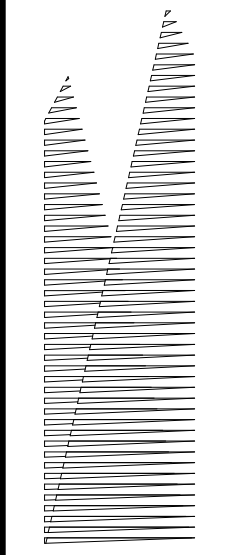


TYPICAL NOSING DETAIL

**Damian Titus**  
APPROVED  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub







Client  
Related Companies  
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New York, NY 10023  
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605 Third Avenue  
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No.	Description	Date
1	DOB SUBMISSION	10/18/2013
2	L.R.R. - 100% M&E-PLATFORM	11/22/2013
3	L.R.R. - 90% SUBMISSION	8/09/2013
4	NYCDOB FILE	6/17/2013
5	L.R.R. - 60% SUBMISSION	5/29/2013

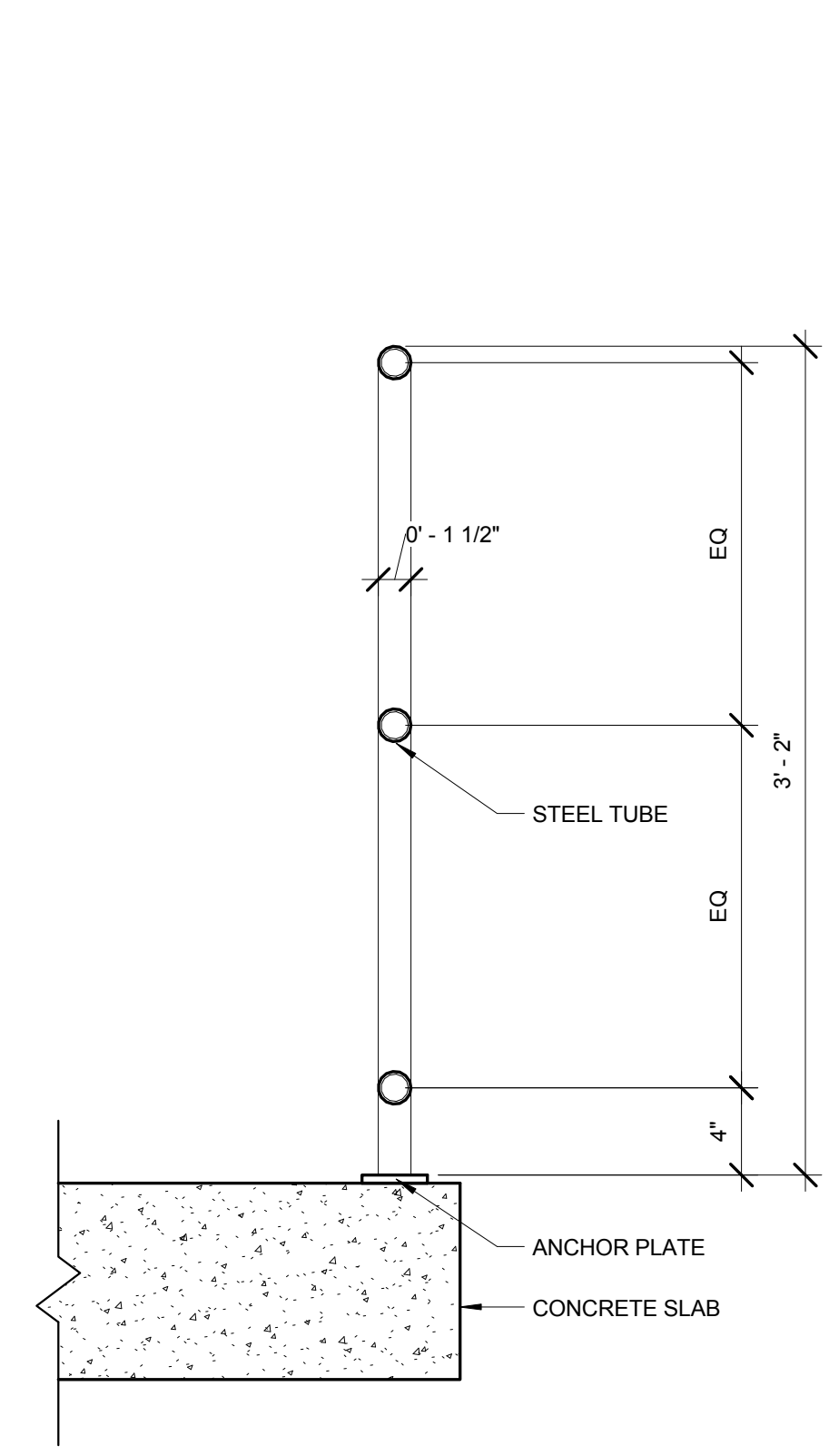
Rev. Plan

Date: 12/14/2012  
Project No: 2119  
Drawing No:  
Sheet Number:  
Drawing Title:

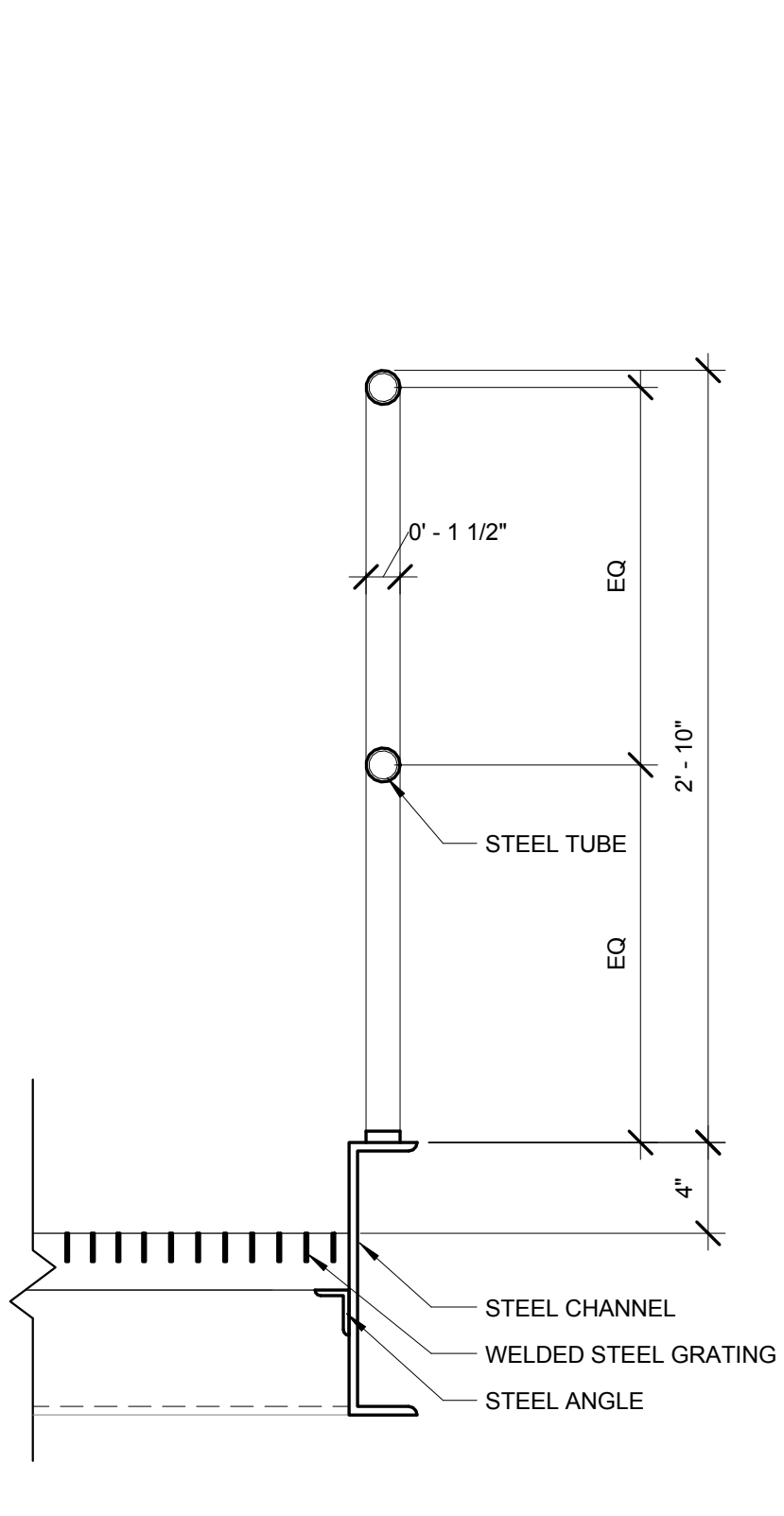
**HYE-PL-A-521.00**

**TYPICAL STAIR DETAILS**

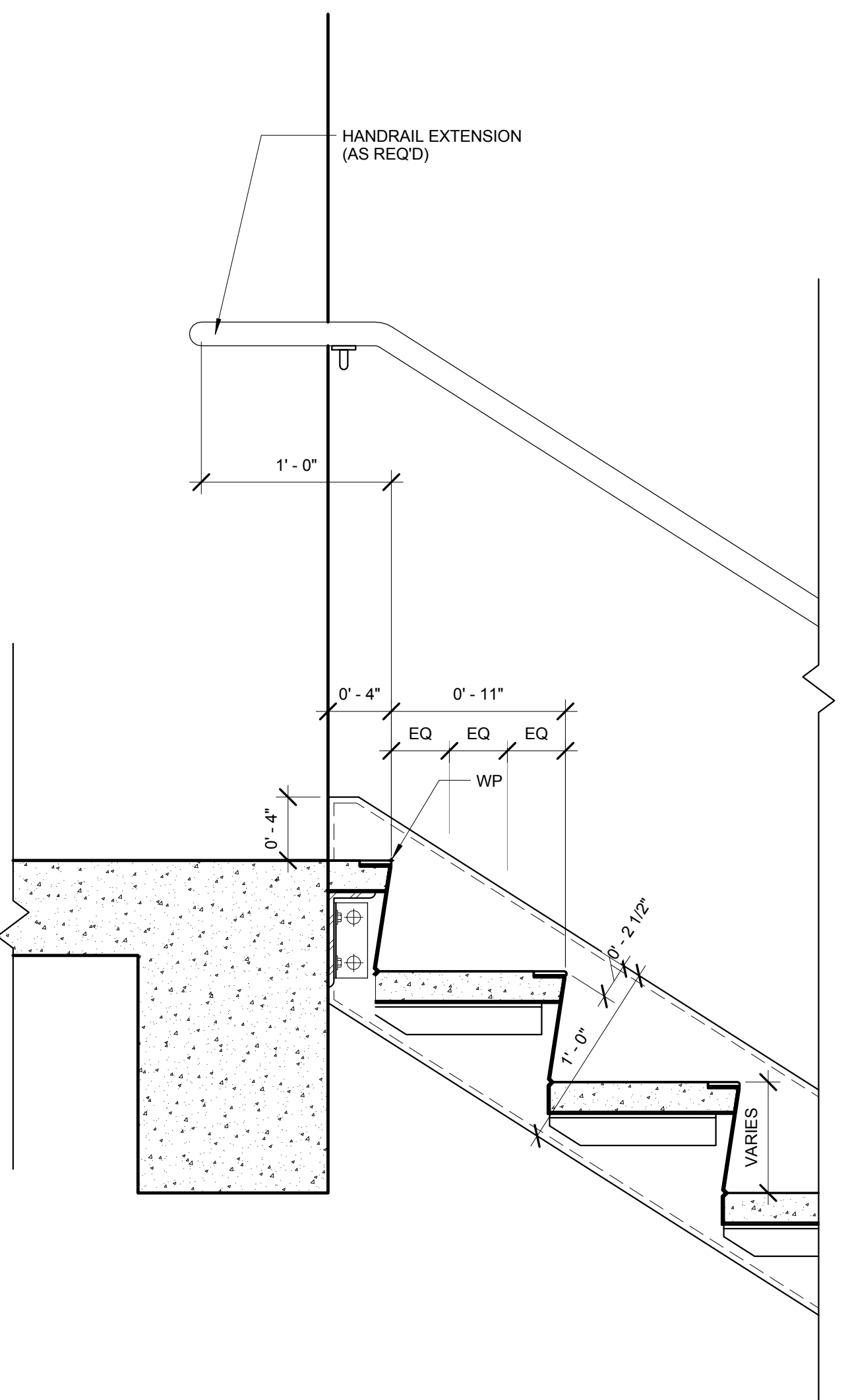
Drawn by: **A-521.00**



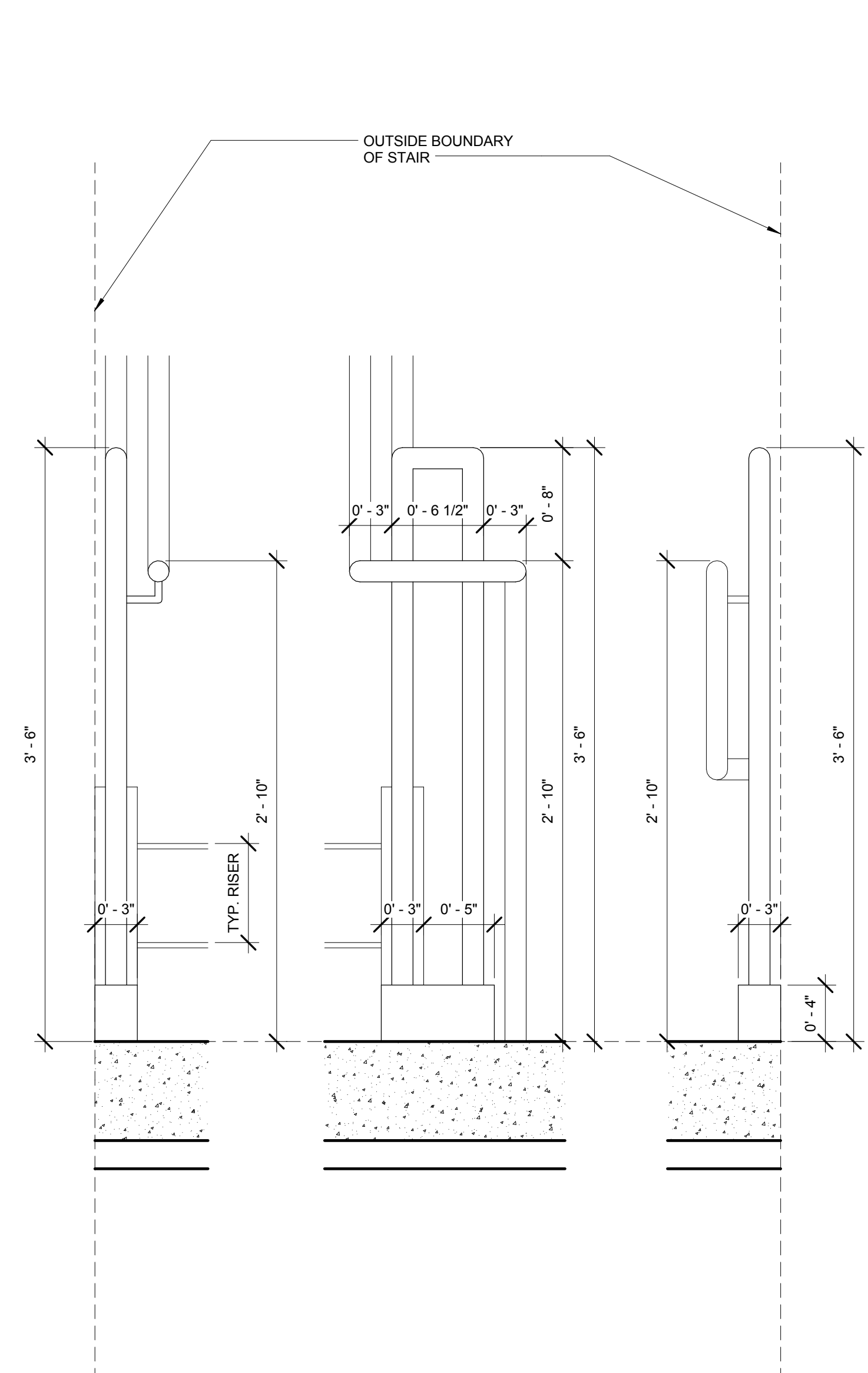
9 TYP. MECHANICAL GUARDRAIL DETAIL  
SCALE: 1 1/2" = 1'-0"



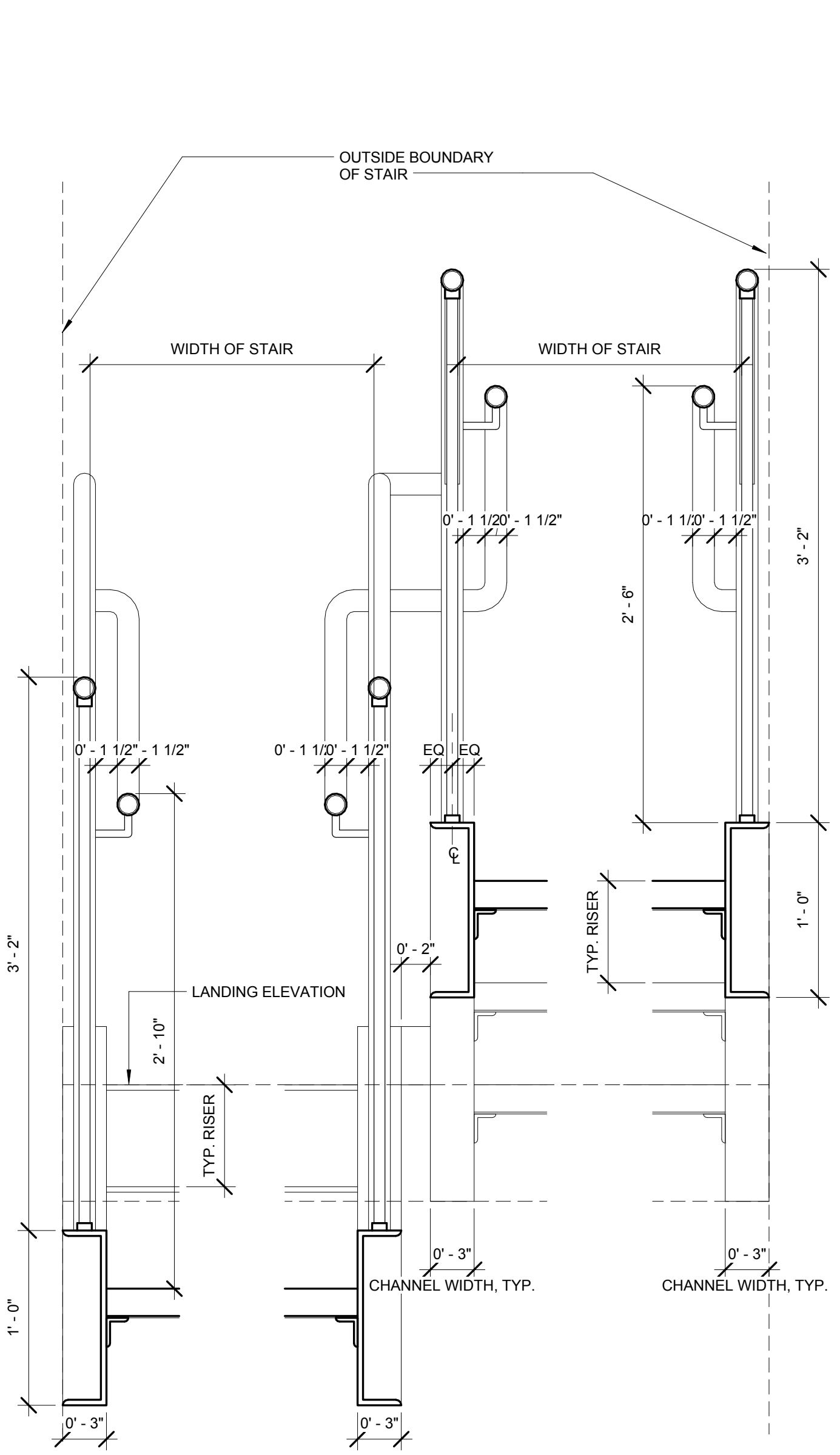
8 GUARDRAIL DETAIL @ WELDED STEEL GRATING LANDING/CATWALK  
SCALE: 1 1/2" = 1'-0"



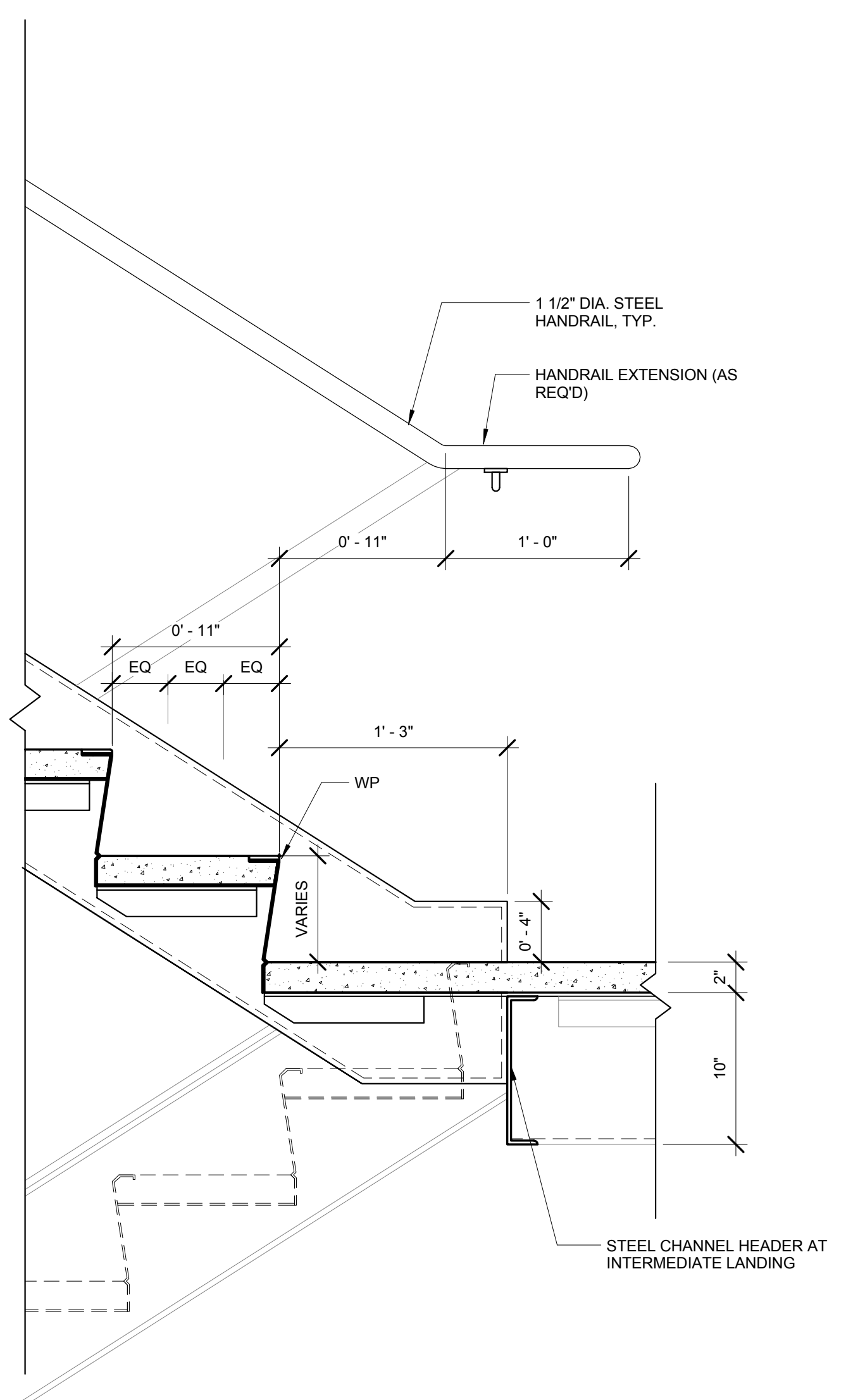
6 STAIR TERMINATION - TOP (WALL MOUNTED)  
SCALE: 1 1/2" = 1'-0"



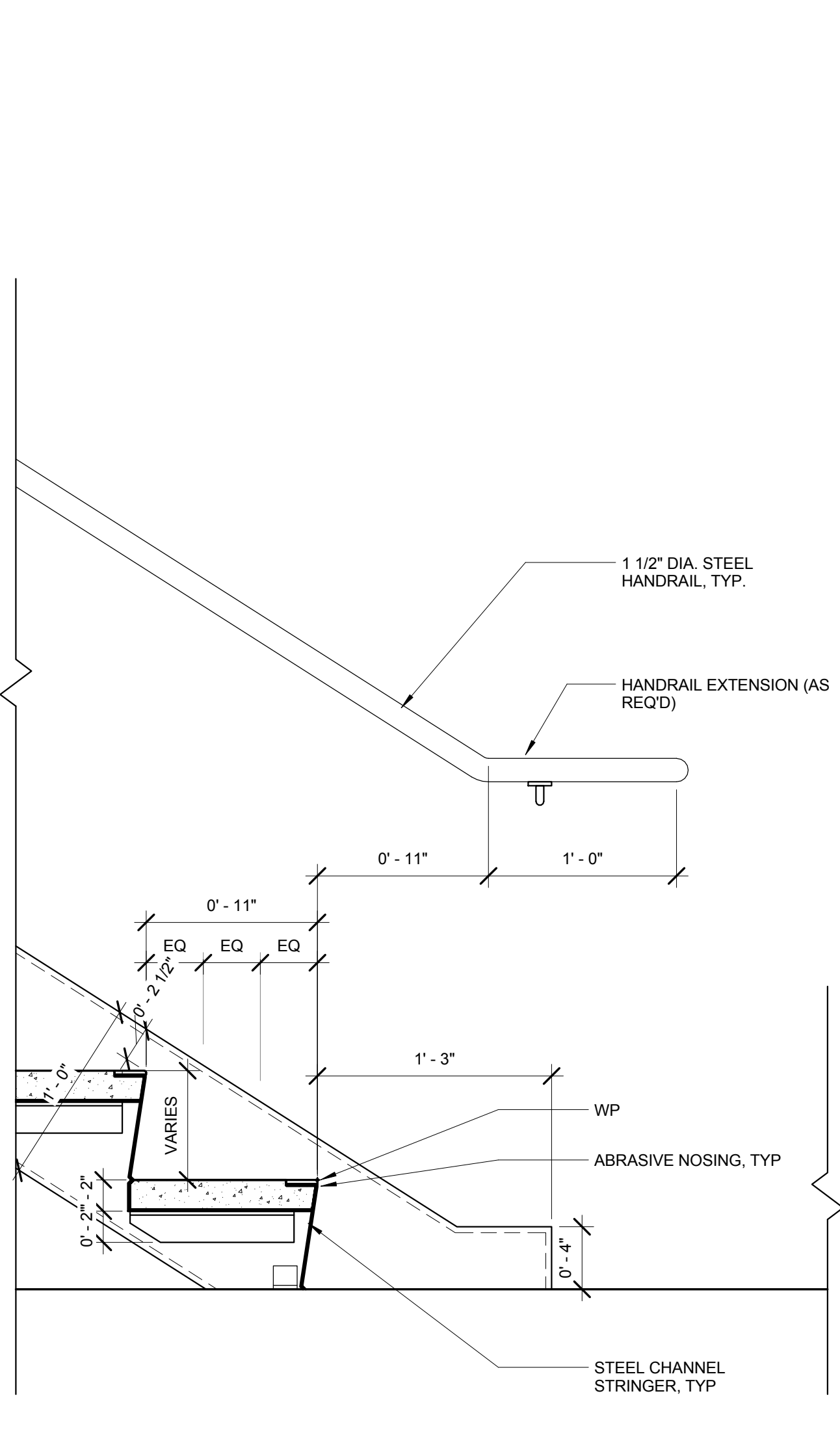
4 HANDRAIL & GUARDRAIL CONTINUATION AT LANDING (NO WALL ENCLOSURE)  
SCALE: 1 1/2" = 1'-0"



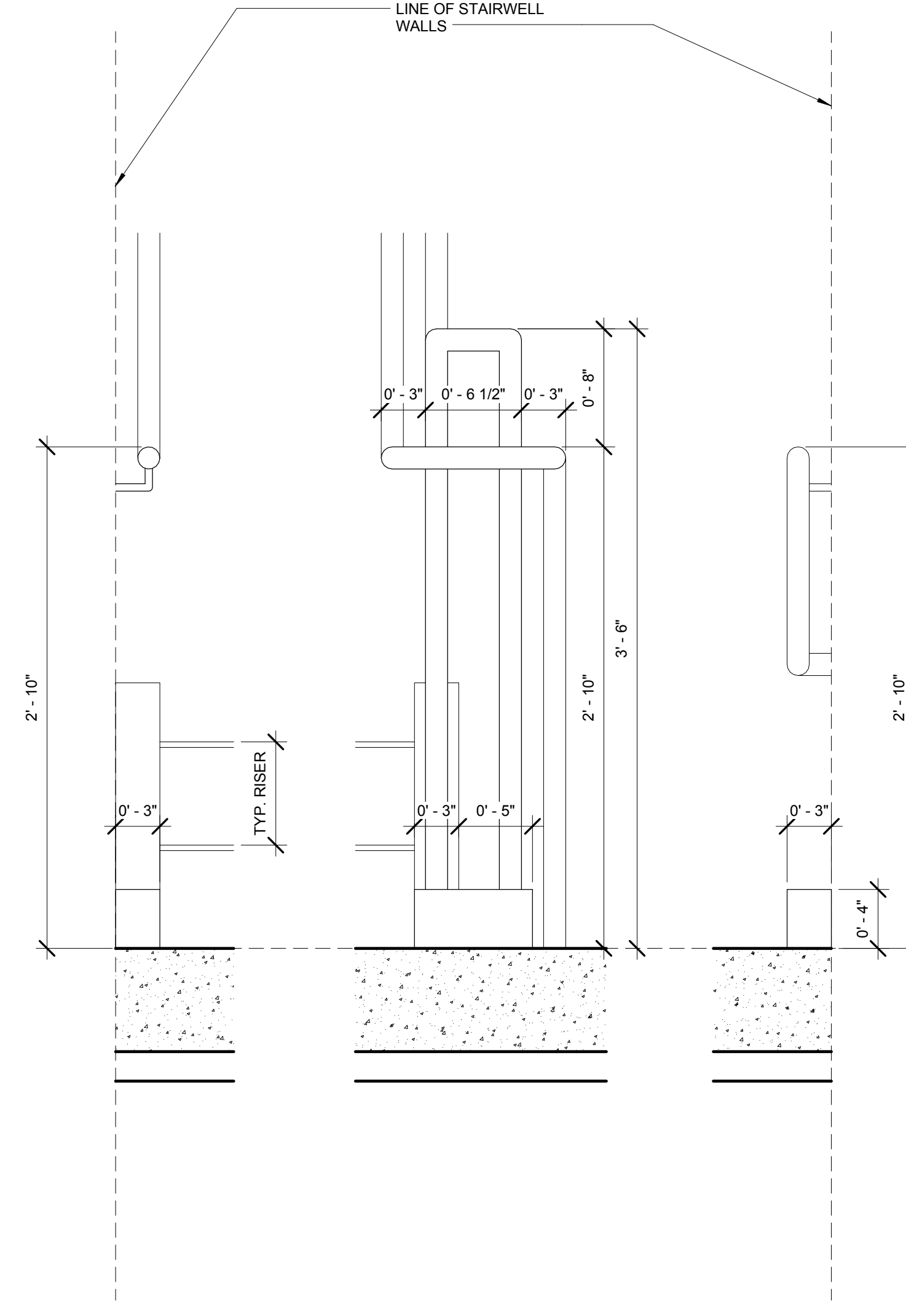
2 TYP. CROSS-SECTION THROUGH STAIR (NO WALL ENCLOSURE)  
SCALE: 1 1/2" = 1'-0"



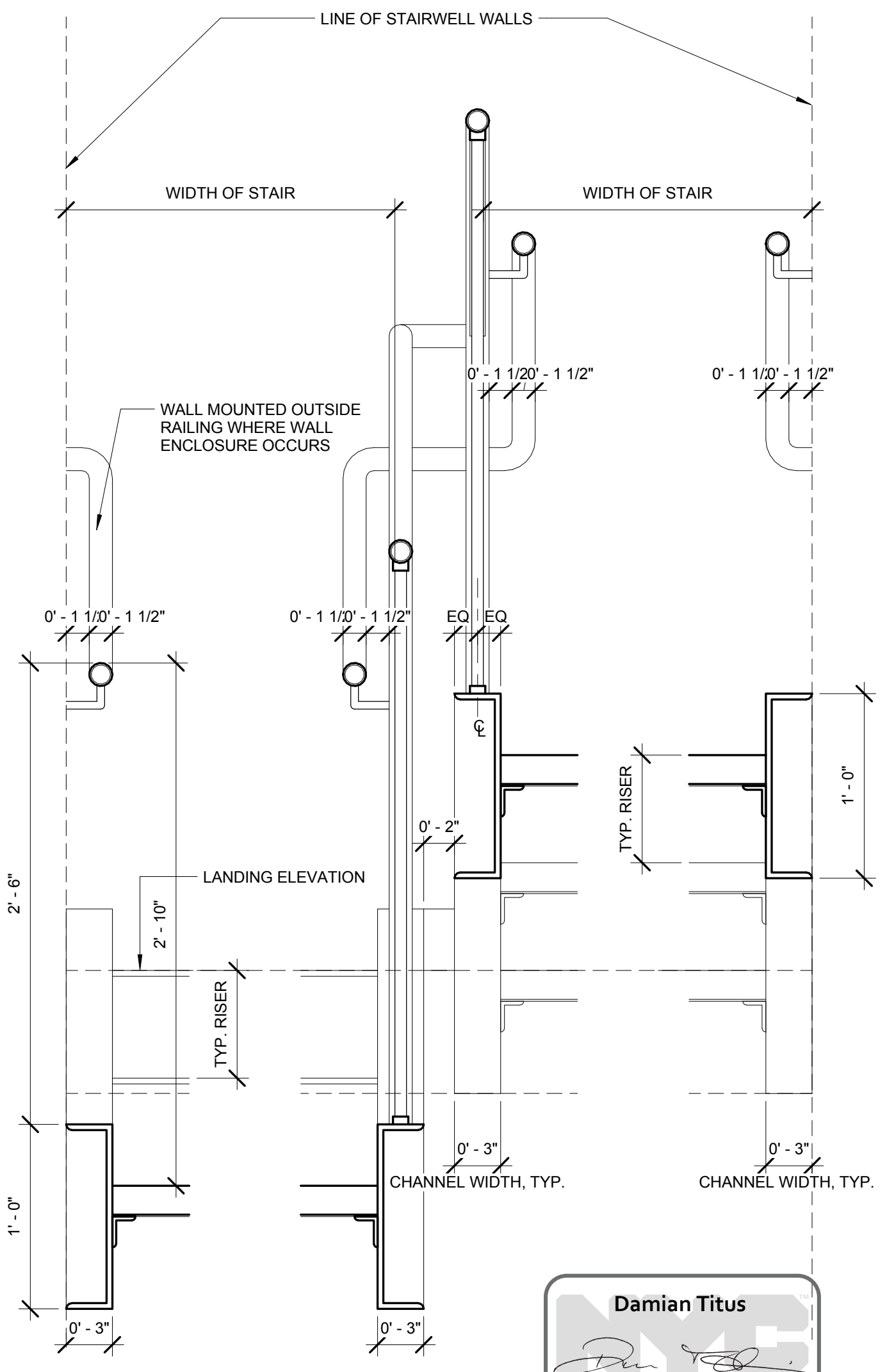
15 INTERMEDIATE LANDING - UPSIDE (WALL MOUNTED)  
SCALE: 1 1/2" = 1'-0"



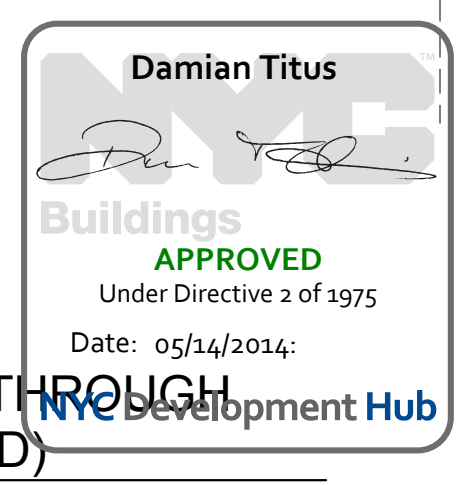
5 STAIR TERMINATION - BOTTOM (WALL MOUNTED)  
SCALE: 1 1/2" = 1'-0"



3 HANDRAIL & GUARDRAIL CONTINUATION AT LANDING (WALL ENCLOSED)  
SCALE: 1 1/2" = 1'-0"



1 TYP. CROSS-SECTION THROUGH STAIR (WALL ENCLOSED)  
SCALE: 1 1/2" = 1'-0"



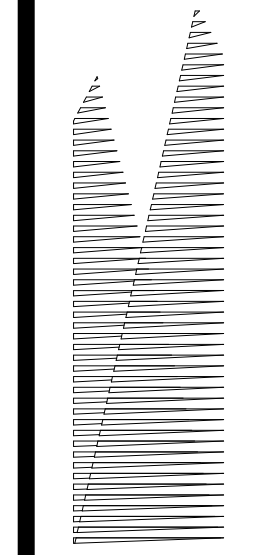
APPROVED  
Under Directive 3 of 1975  
Date: 05/14/2014





**HUDSON YARDS - PLATFORM**

Address:  
 530 WEST 33RD STREET  
 NEW YORK, NY



*Client*  
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 60 Columbus Circle  
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*Construction Manager*  
 Tishman Construction Corporation  
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 New York, NY 10017  
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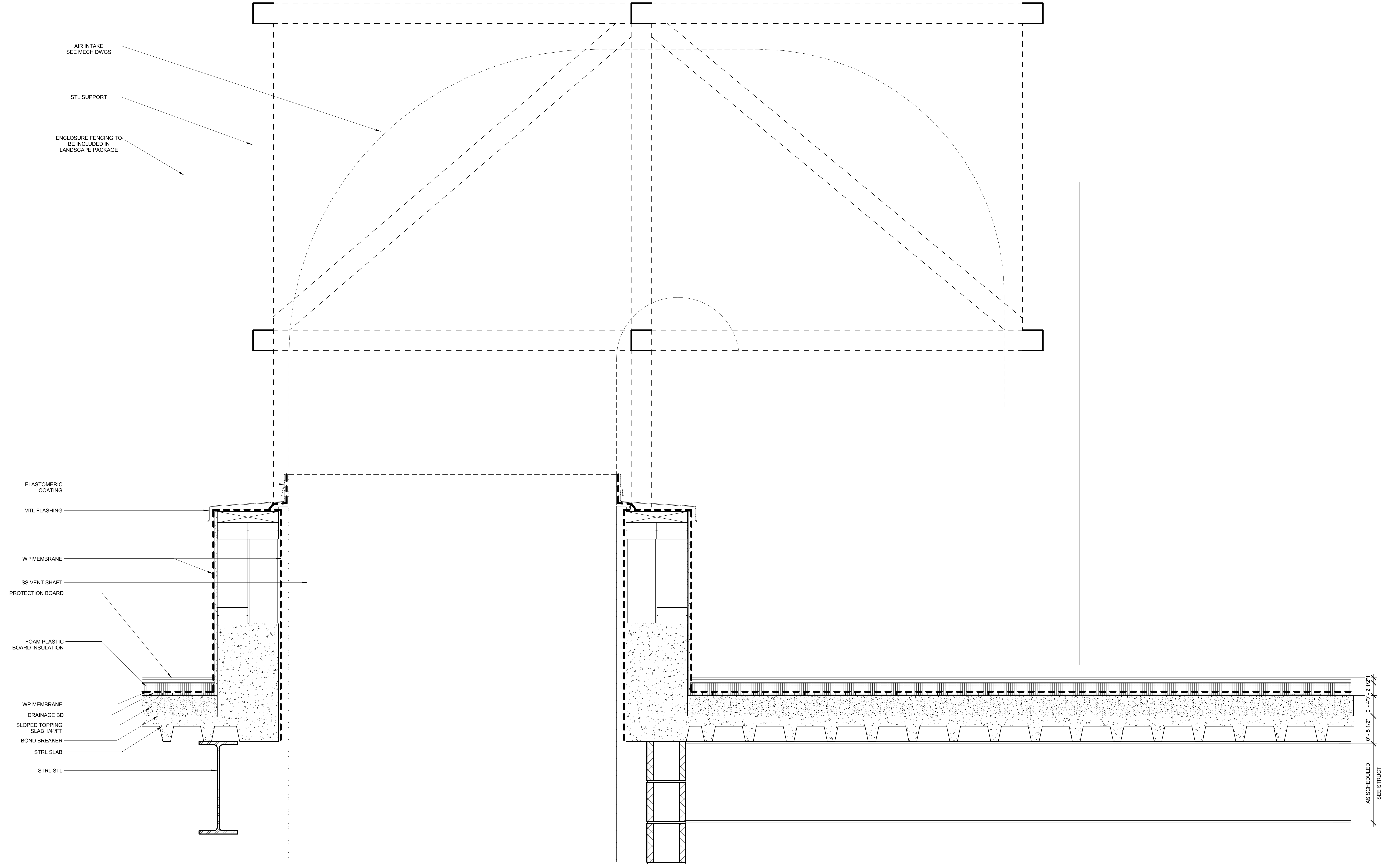
*Architect*  
 Kohn Pedersen Fox Associates  
 PC Architects & Planning Consultants  
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 212.896.3000

*LIRR Substation*  
 AECOM  
 605 Third Avenue  
 New York, NY 10158  
 TEL: 212.973.9200 FAX: 212.682.6172



AIR INTAKE  
 SEE MECH DWGS

STL SUPPORT

ENCLOSURE FENCING TO  
 BE INCLUDED IN  
 LANDSCAPE PACKAGE

ELASTOMERIC COATING

MTL FLASHING

WP MEMBRANE

SS VENT SHAFT

PROTECTION BOARD

FOAM PLASTIC BOARD INSULATION

WP MEMBRANE

DRAINAGE BD

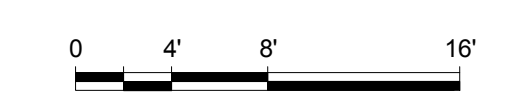
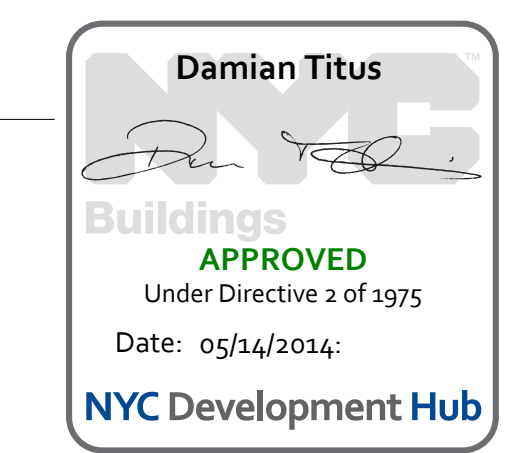
SLOPED TOPPING SLAB 1/4\"/>

BOND BREAKER

STR. SLAB

STR. STL

1 VENT SHAFT  
 SCALE: 1/12" = 1'-0"



No.	Description	Date
1	DOB SUBMISSION	10/18/2013
2	L.I.R.R. - 100% M&E-PLATFORM	11/22/2013
3	NYC DOB Filing	6/12/2013
4	L.I.R.R. - 60% SUBMISSION	5/29/2013

Rev. Plan

Date: 05/29/13  
 Project No: 219  
 Drawn By: [Signature]  
 Sheet Number: [Signature]

**HYE - PL - A-550.00**

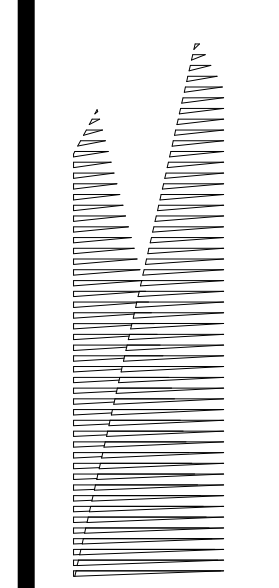
**TEMPORARY VENT SHAFT (TYPICAL)**

Drawn by: [Signature]  
**A-550.00**



**HUDSON YARDS - PLATFORM**

Address:  
 530 WEST 33RD STREET  
 NEW YORK, NY



*Client*  
 Related Companies  
 60 Columbus Circle  
 New York, NY 10023  
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*Oxford Properties Group*  
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 New York, NY 10022  
 TEL: 212.986.7514 FAX: 212.986.7510

*Construction Manager*  
 Tishman Construction Corporation  
 100 Park Avenue, 5th Floor  
 New York, NY 10017  
 TEL: 212.708.3600

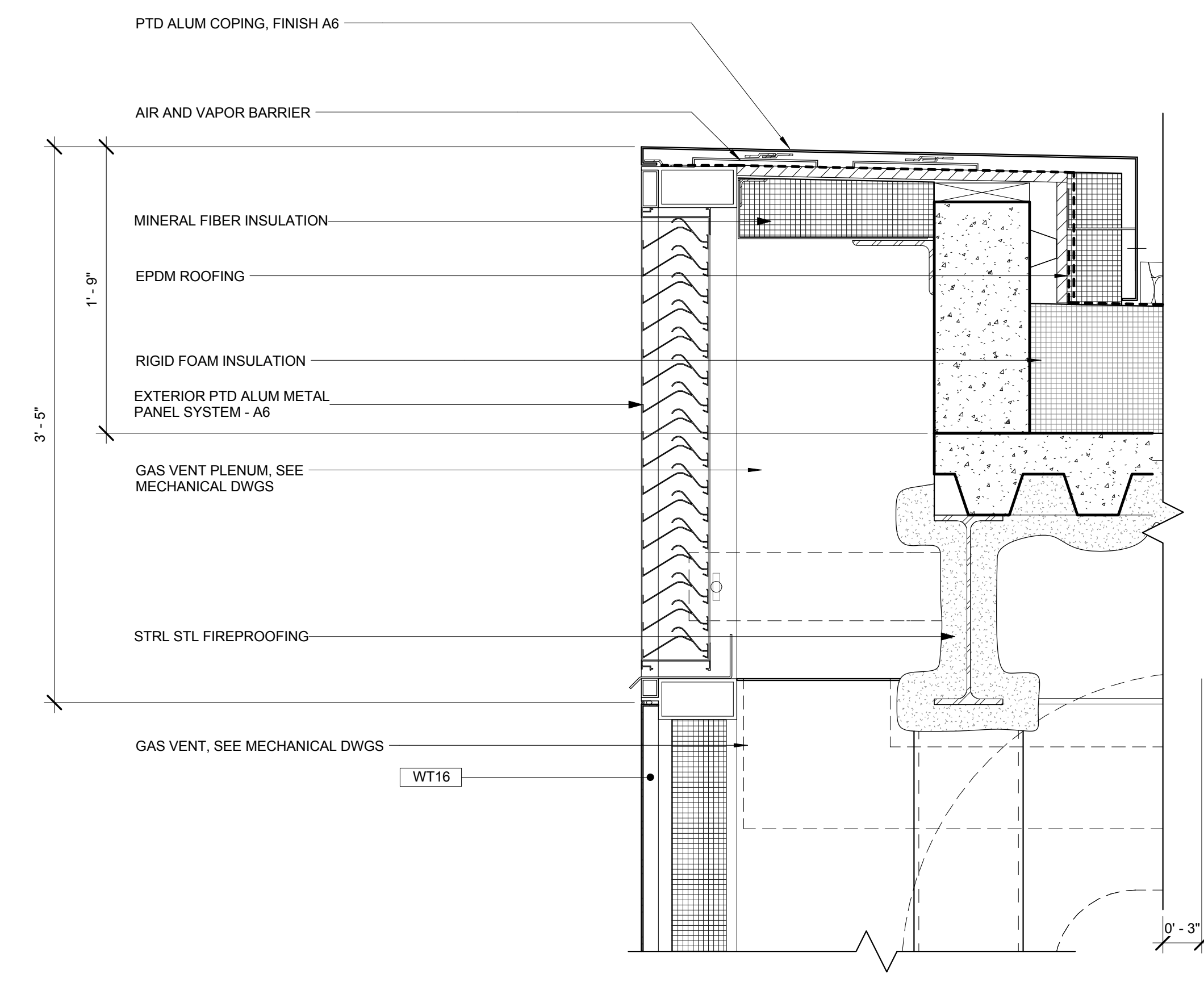
*Architect*  
 Kohn Pedersen Fox Associates  
 PC Architects & Planning Consultants  
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 51 Madison Avenue  
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 TEL: 917.661.7800 FAX: 917.661.7801

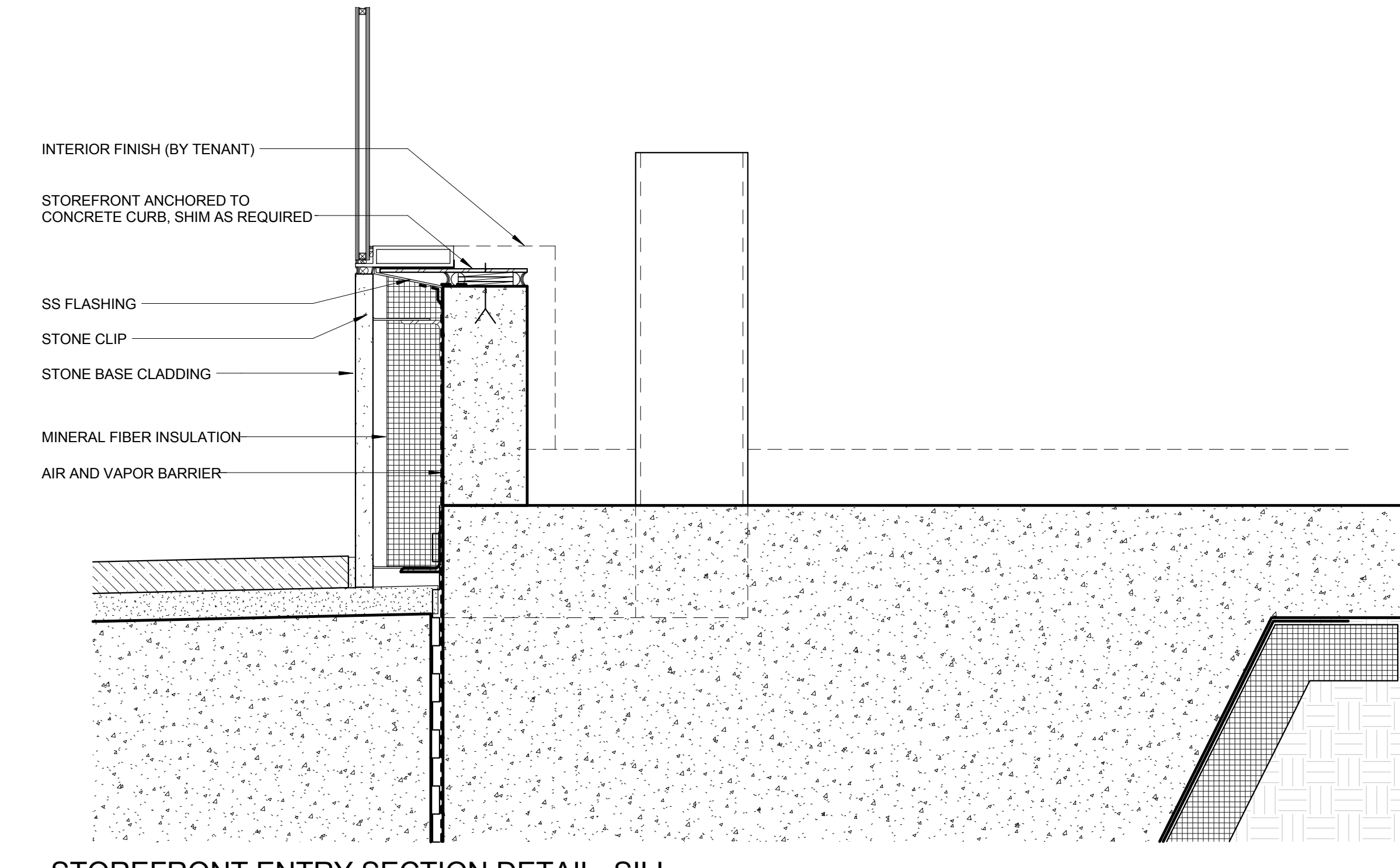
*Mechanical, Electrical, Plumbing, Fire Protection*  
 Parsons Transportation Group  
 100 Broadway  
 New York, NY 10005  
 TEL: 212.266.8300 FAX: 212.571.6825

*LIRR Ventilation*  
 Ove Arup & Partners P.C.  
 77 Water Street  
 New York, NY 10005  
 212.896.3000

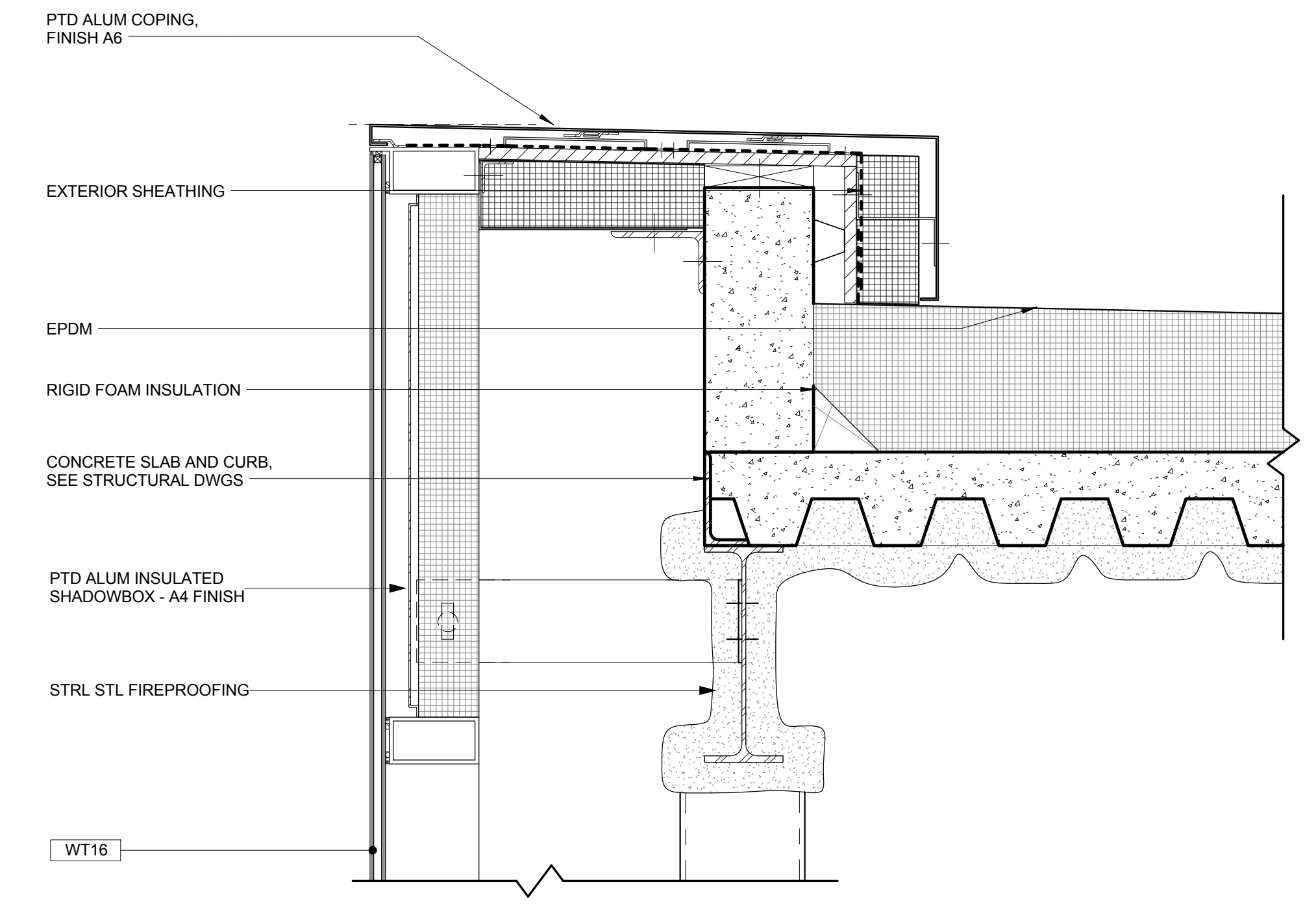
*LIRR Substation*  
 AECOM  
 605 Third Avenue  
 New York, NY 10158  
 TEL: 212.973.9200 FAX: 212.682.6172



**SECTION DETAIL AT STOREFRONT LOUVER PANEL**  
 SCALE: 1 1/2" = 1'-0"



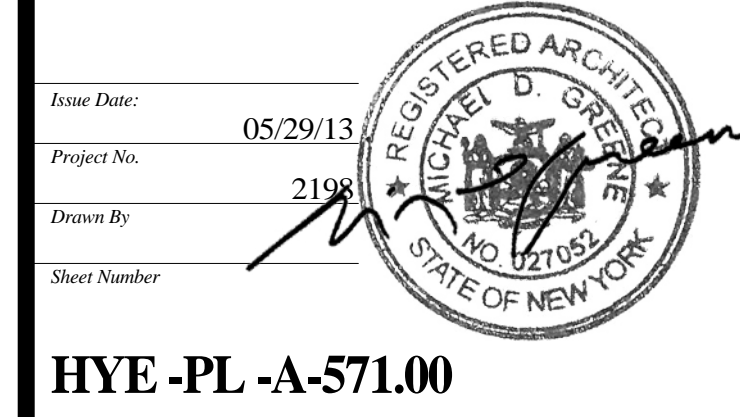
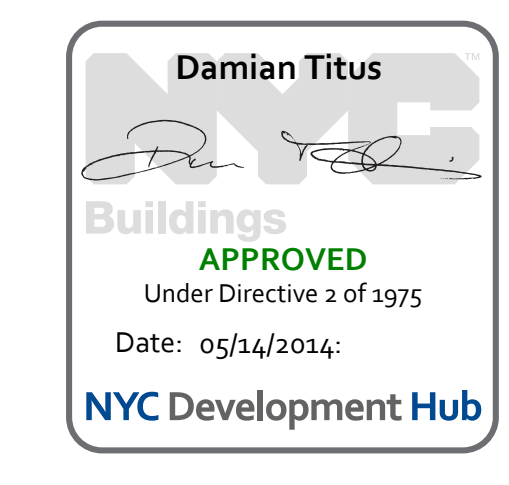
**STOREFRONT ENTRY SECTION DETAIL - SILL**  
 SCALE: 1 1/2" = 1'-0"



**STOREFRONT ENTRY SECTION DETAIL - GLASS SPANDREL**  
 SCALE: 1 1/2" = 1'-0"

No.	Description	Date
1	DOB SUBMISSION	10/18/2013
2	L.I.R.R. - 100% MoE-PLATFORM	11/22/2013
3	L.I.R.R. - 90% SUBMISSION	8/19/2013
4	NYC DOB Filing	6/17/2013
5	L.I.R.R. - 60% SUBMISSION	5/29/2013

Rev Plot



**HYE -PL -A-571.00**

**EXTERIOR ENCLOSURE DETAILS**

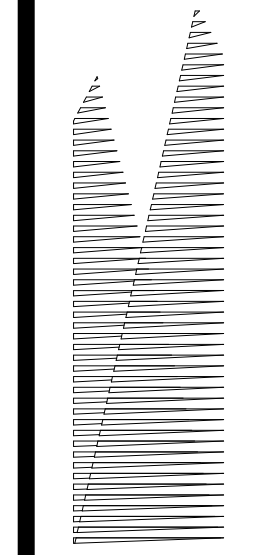
Drawing Title  
**A-571.00**





**HUDSON YARDS - PLATFORM**

Address:  
 530 WEST 33RD STREET  
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*Construction Manager*  
 Tishman Construction Corporation  
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 New York, NY 10017  
 TEL: 212.708.3600

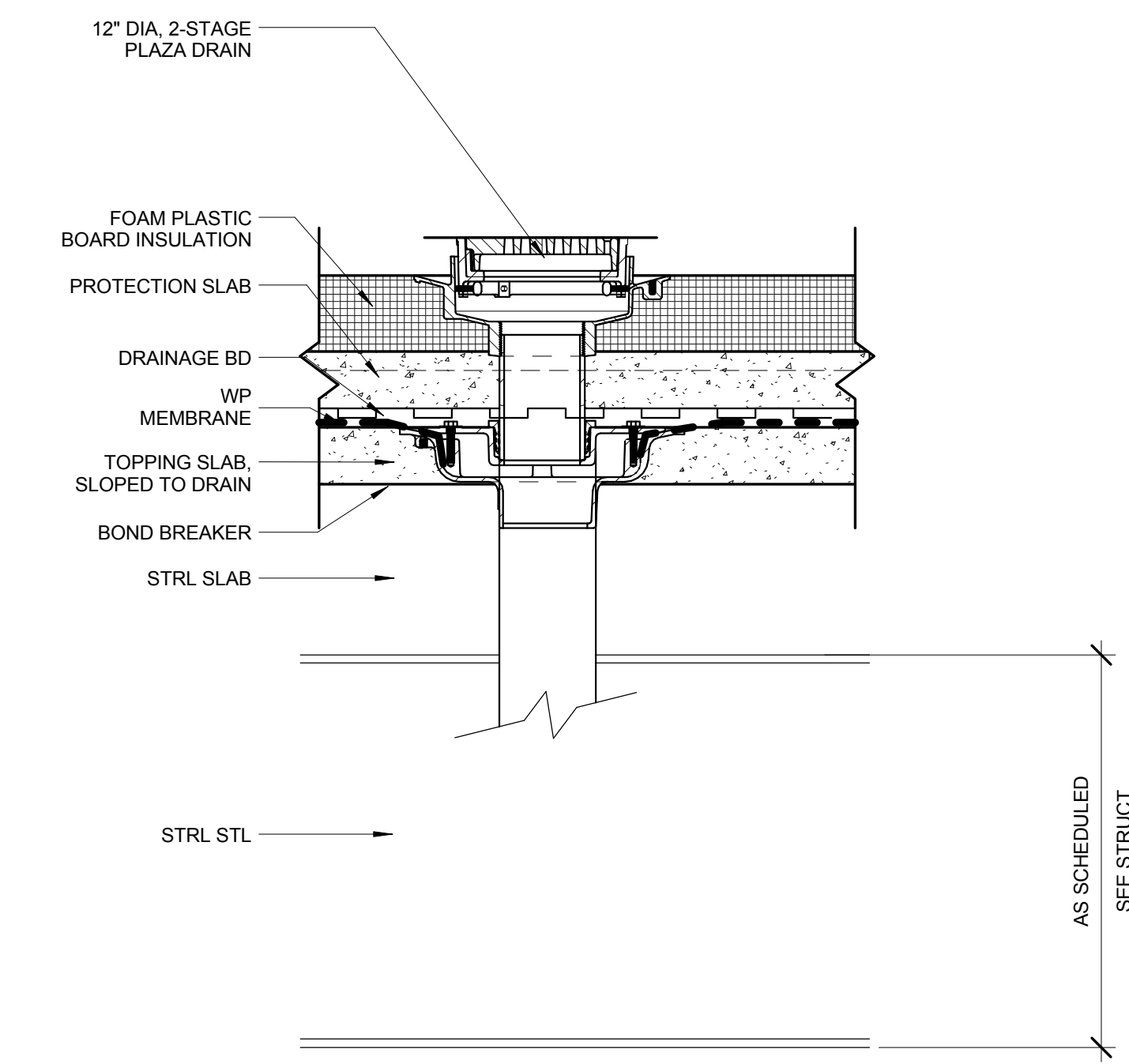
*Architect*  
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 PC Architects & Planning Consultants  
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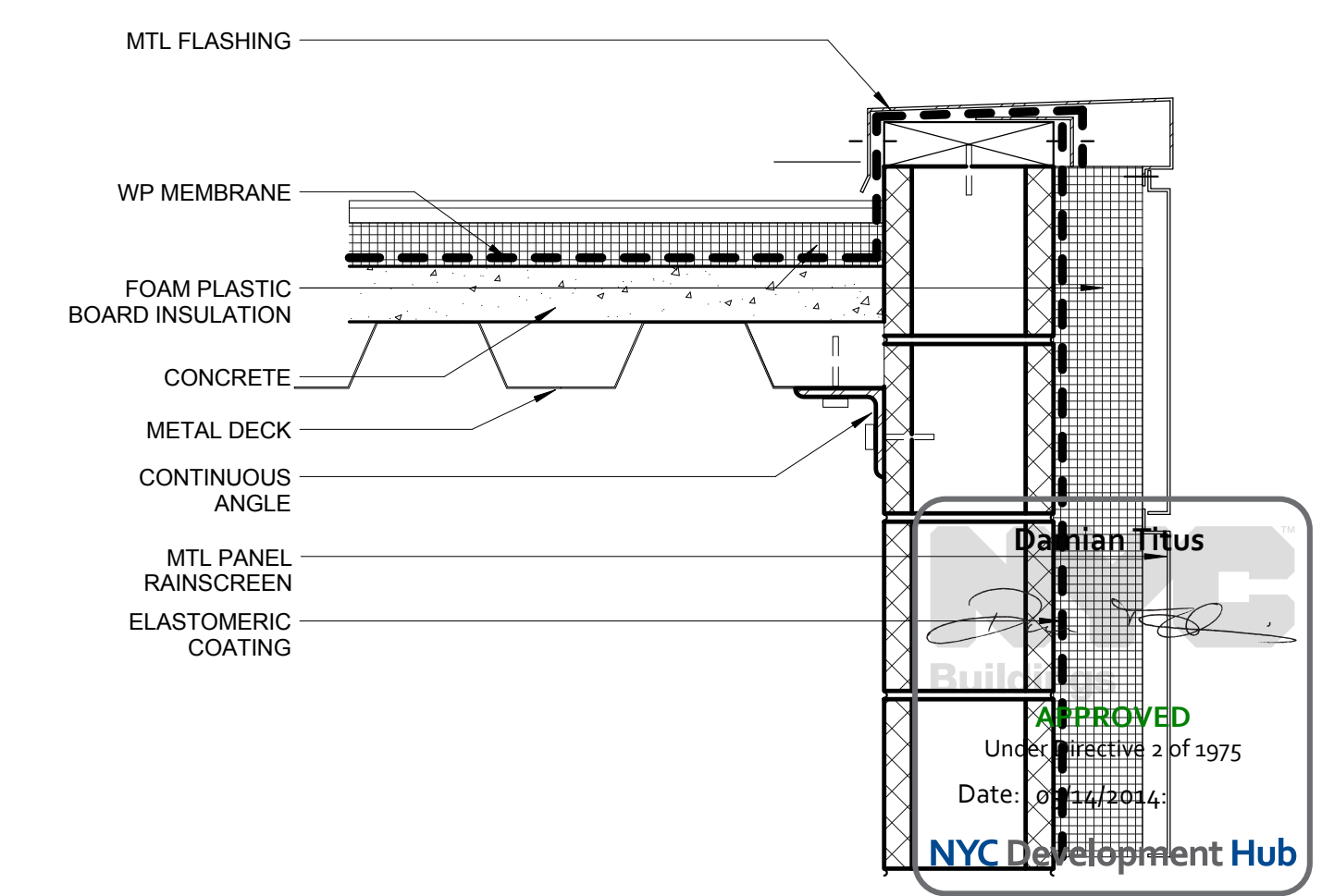
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**2 TERRA FIRMA EXTERIOR DETAILS**  
 SCALE: 1/12" = 1'-0"



**1 PLAZA STAIR BULKHEAD TOP**  
 SCALE: 1/12" = 1'-0"

No.	Description	Date
3	DOB SUBMISSION	10/18/2013
4	L.I.R.R. - 100% M&E-PLATFORM	11/22/2013
3	L.I.R.R. - 90% SUBMISSION	8/09/2013
2	NYC DOB FILE	6/17/2013
1	L.I.R.R. - 60% SUBMISSION	5/29/2013

Rev Plot

Issue Date: 05/29/13  
 Project No: 2198  
 Drawn By: [Signature]  
 Sheet Number: [Signature]  
 Drawing Title: [Signature]

**HYE -PL -A-572.00**

**EXTERIOR ENCLOSURE DETAILS**

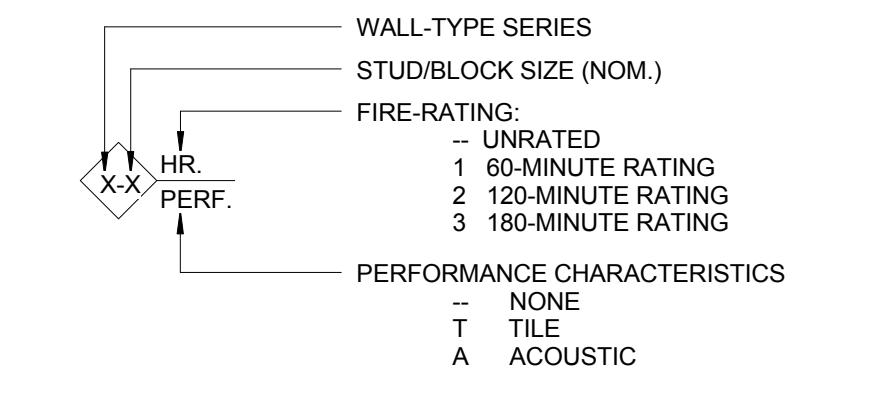
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**A-572.00**





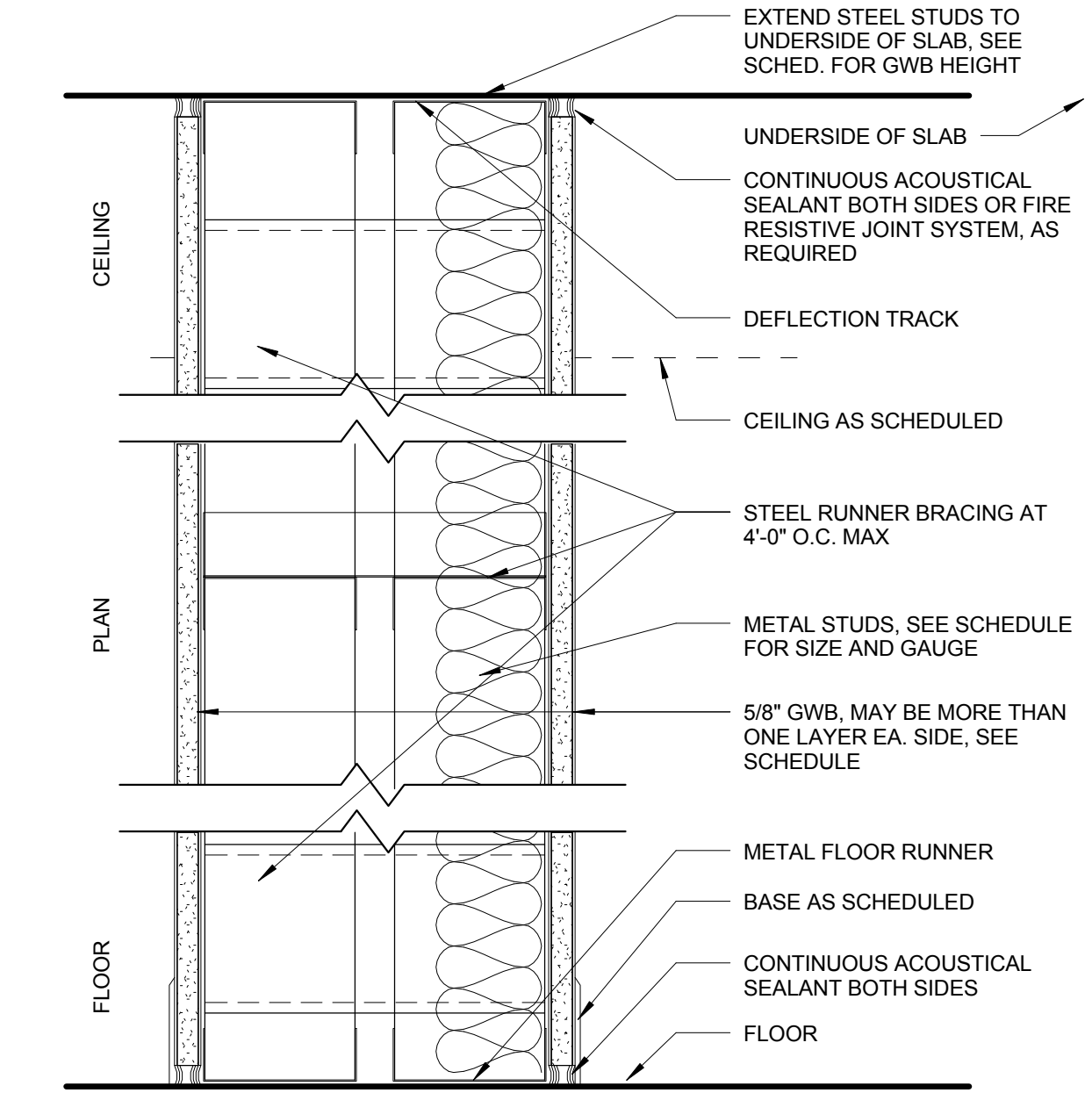


Wall Schedule										Fire Rating		Sound Transmission		Remarks
Type	Description	Width	No. GWB Layers	GWB. Thick	Stud Size	USG Stud No. 20 Gauge	Stud Spacing	Max Height L/240 def.	Fire Rating ( ) = Hour	U.L. Wall No.	Fire Res.	STC Rating	S.A.F.B. Thick. (in.)	
	7 5/8" CMU carpet	7 1/2"												
	Coping 1													
	Exterior - 5" Concrete	5"												
	Exterior - 9" Concrete	9"												
	Exterior - 10" Concrete	10"												
	Exterior - 13" Concrete	1'-1"												
	Exterior - 15" Concrete	1'-3"												
	Exterior - Metal Panel on Insul - 2"	2"												
	Sheet	1/2"												
	SILVER ROOM WALL 19"	1'-7"												
1-Series	Wall Partition 1-3	1-Series 1-3	4 1/2"	1	5/8"	3 5/8"	212ST20	16"	17'-3"					
	Wall Partition 1-3-A	1-Series 1-3-A	5"	2	5/8"	3 5/8"	212ST20	16"	17'-3"			49		
	Wall Partition 1-3-T	1-Series 1-3-T	4 1/2"	1	5/8"	3 5/8"	212ST20	16"	17'-3"					
2-Series	Wall Partition 2-3	2-Series 2-3	5"	2	5/8"	3 5/8"	358ST20	16"	17'-11"	U465	HW-D-0016	49		
	Wall Partition 2-3-T	2-Series 2-3-T	5"	2	5/8"	3 5/8"	358ST20	16"	17'-11"	U465	HW-D-0016	49	Include Tile	
3-Series	Wall Partition 3-3-A	3-Series 3-3-A	5"	3	5/8"	3 5/8"	358ST20	16"	17'-11"			49		
	Wall Partition 4-3	3-Series 4-3	6"	3	5/8"	3 5/8"	358ST20	16"	17'-11"			49	Include 3" Acoustic Blanket Double-Layer on Control Room Side	
C-Series	Wall Partition C-4	C-Series C-4	4"											
	Wall Partition C-6	C-Series C-6	6"											
	Wall Partition C-8	C-Series C-8	8"											
	Wall Partition C-8-3	C-Series C-8-3	8"						3					
	Wall Partition C-10	C-Series C-10	10"											
	Wall Partition C-12	C-Series C-12	1'-0"											
M-Series	Wall Partition M-4	M-Series M-4	3 1/2"											
	Wall Partition M-6	M-Series M-6	6"									49		
	Wall Partition M-7	M-Series M-7	7"									49		
	Wall Partition M-8	M-Series M-8	8"									49		
	Wall Partition M-8-1	M-Series M-8-1	8"						1	U905		49		
	Wall Partition M-8-2	M-Series M-8-2	7 1/2"						2	U905		49		
	Wall Partition M-9-3	M-Series M-9-3	7 1/2"						3			49		
	Wall Partition M-9	M-Series M-9	9"									49		
	Wall Partition M-12	M-Series M-12	1'-0"									49		
	Wall Partition M-12-2	M-Series M-12-2	1'-0"						2			49	Solid Masonry w/ Fire Resistive Sealant	
ST-Series	Galvanized Wire Fabric Partition	ST-Series ST-4	2"							U465	HW-D-0016		See Section 102213	
	Wall Partition ST-1-2 (T)	ST-Series ST-1-2	7 1/2"	2	5/8"	4"	400CH20/JSTUD	24"	14'-5"	2	HW-D-0016			

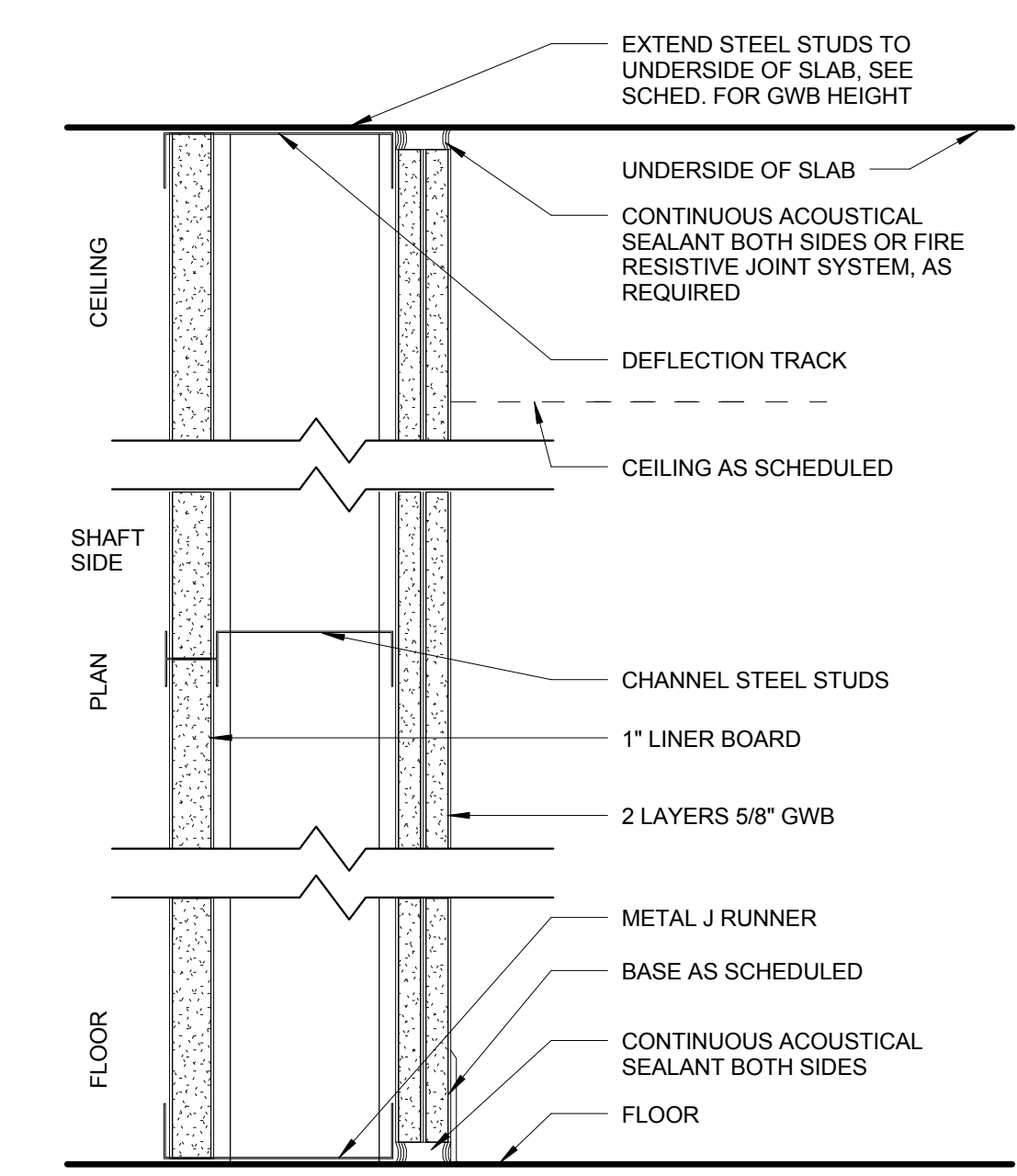


GENERAL NOTES:  
 1. INSULATION TYPES IDENTIFY MATERIALS IN SPECIAL PARTITION TYPES AND MAY BE USED AS A PERFORMANCE CHARACTERISTIC OF A STANDARD PARTITION TYPE. SEE SPECIFICATION SECTION FOR ADDITIONAL INFORMATION.  
 2. DOUBLE 18-GAUGE STUDS SHALL BE INSTALLED ON EACH SIDE OF ALL DOOR OPENINGS AND AREAS THAT WILL SUPPORT SIGNS, CABINETS OR SHELVING.

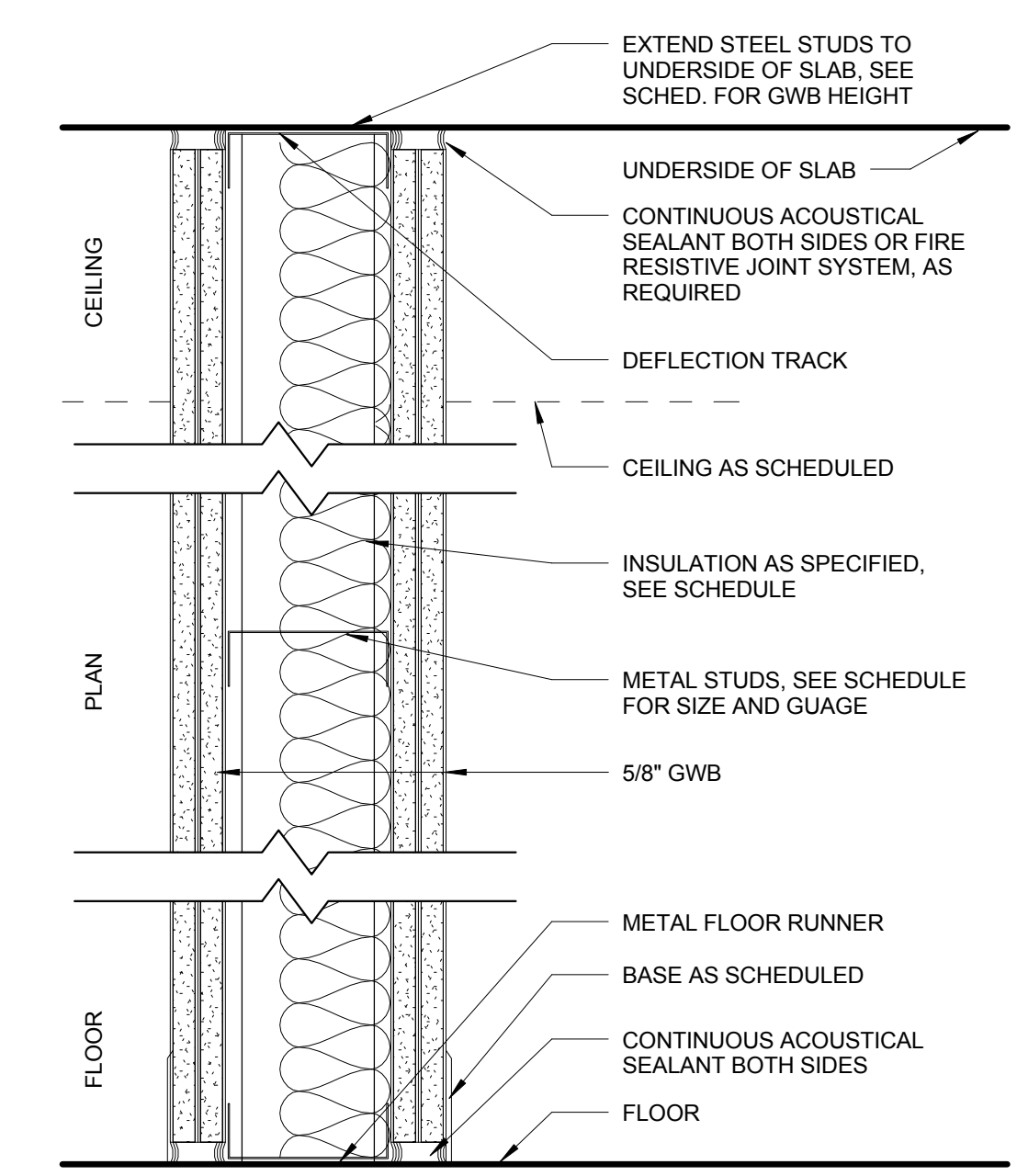
SPACE USE/ RECOMMENDED NC	
SPACE TYPE/ USE	RECOMMENDED BACKGROUND NOISE
CONTROL ROOM & PSCC	NC-35
CONFERENCE ROOMS	NC-35
PRIVATE OFFICES	NC-35
OPEN PLAN OFFICES	NC-40
LUNCH ROOM	NC-40
CORRIDORS	NC-45
LOCKER ROOMS	NC-45



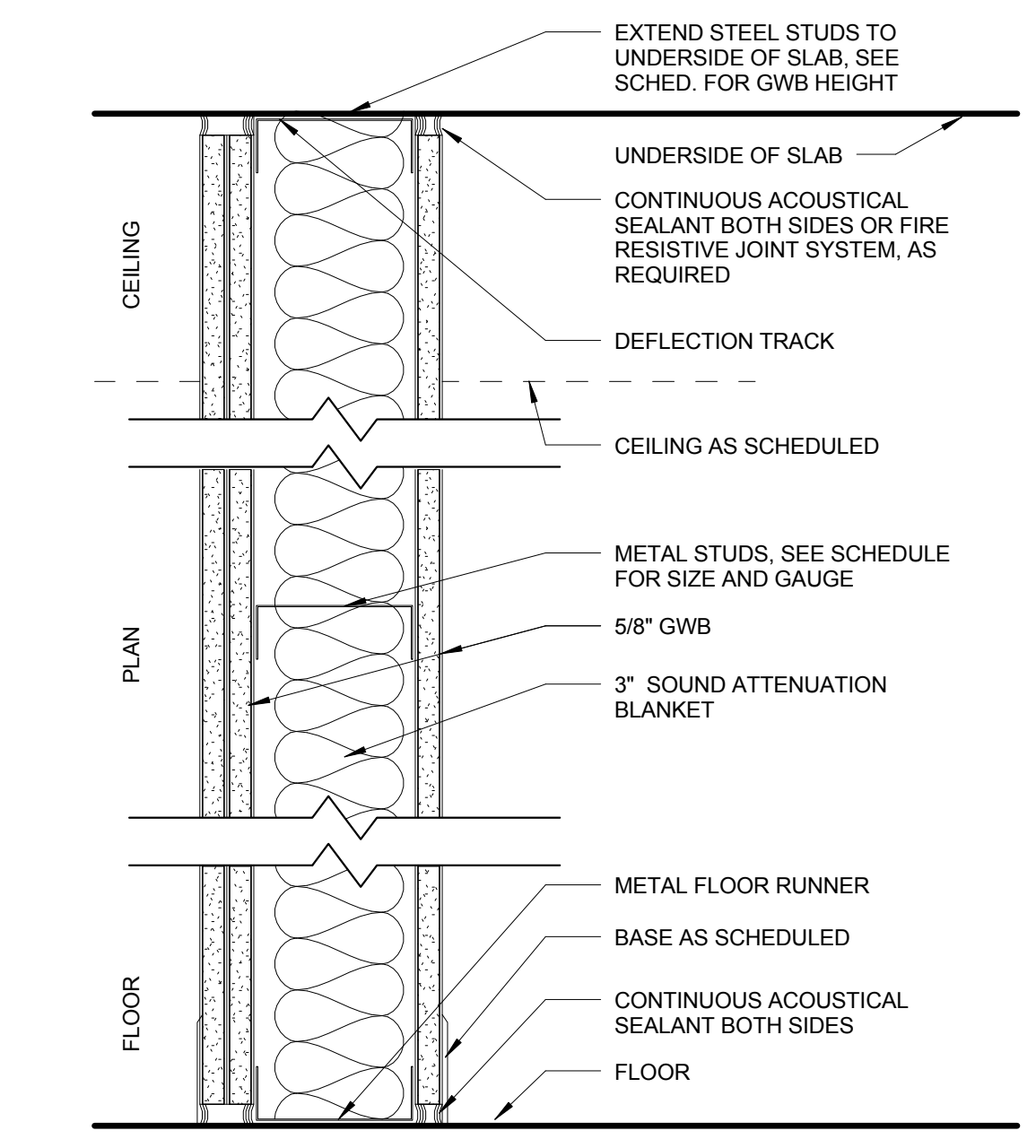
1-SERIES PARTITION - 2 LAYER GWB  
 N.T.S. - REFER TO SCHEDULE FOR MORE INFORMATION



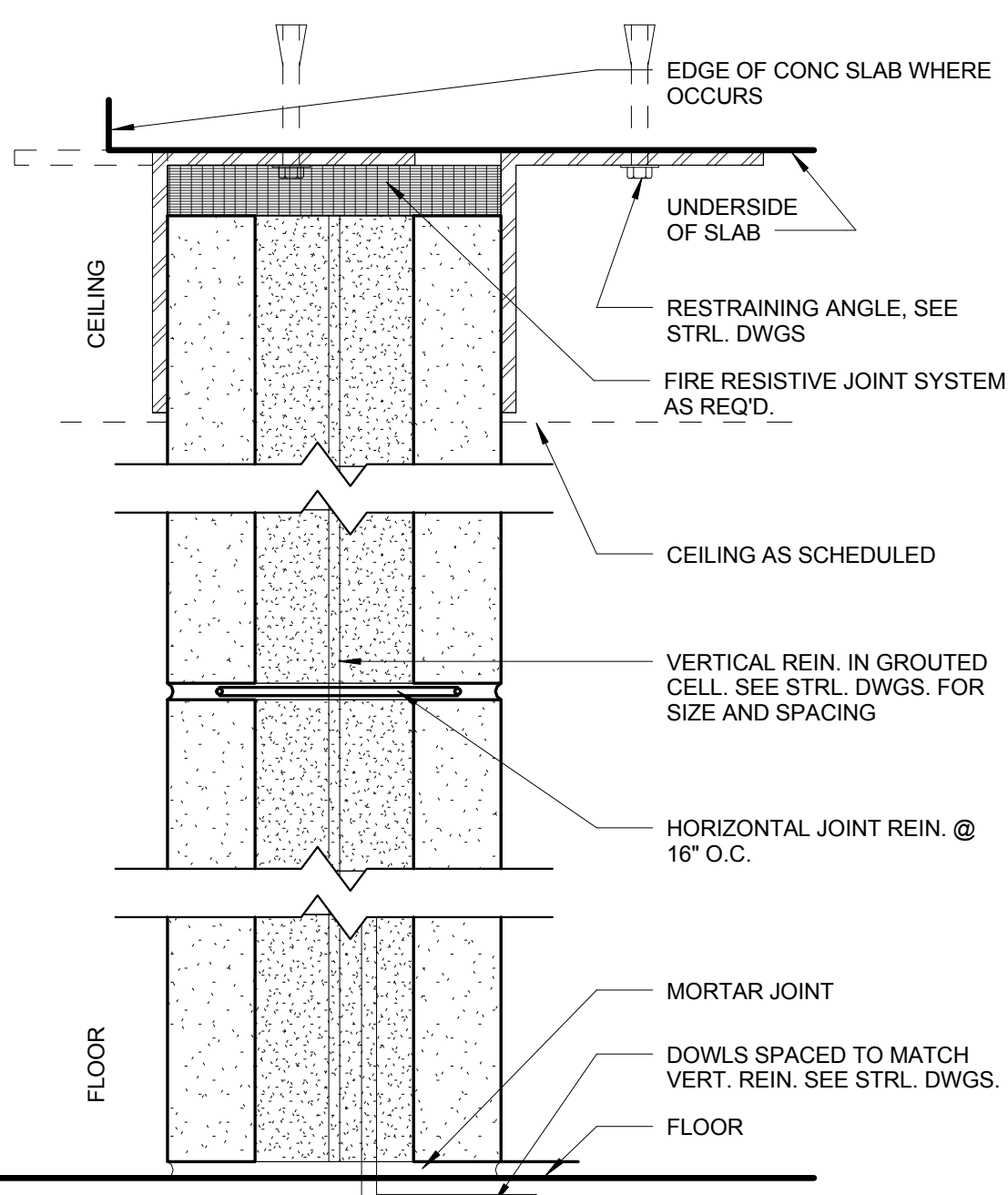
CH-SERIES PARTITION  
 N.T.S. - REFER TO SCHEDULE FOR MORE INFORMATION



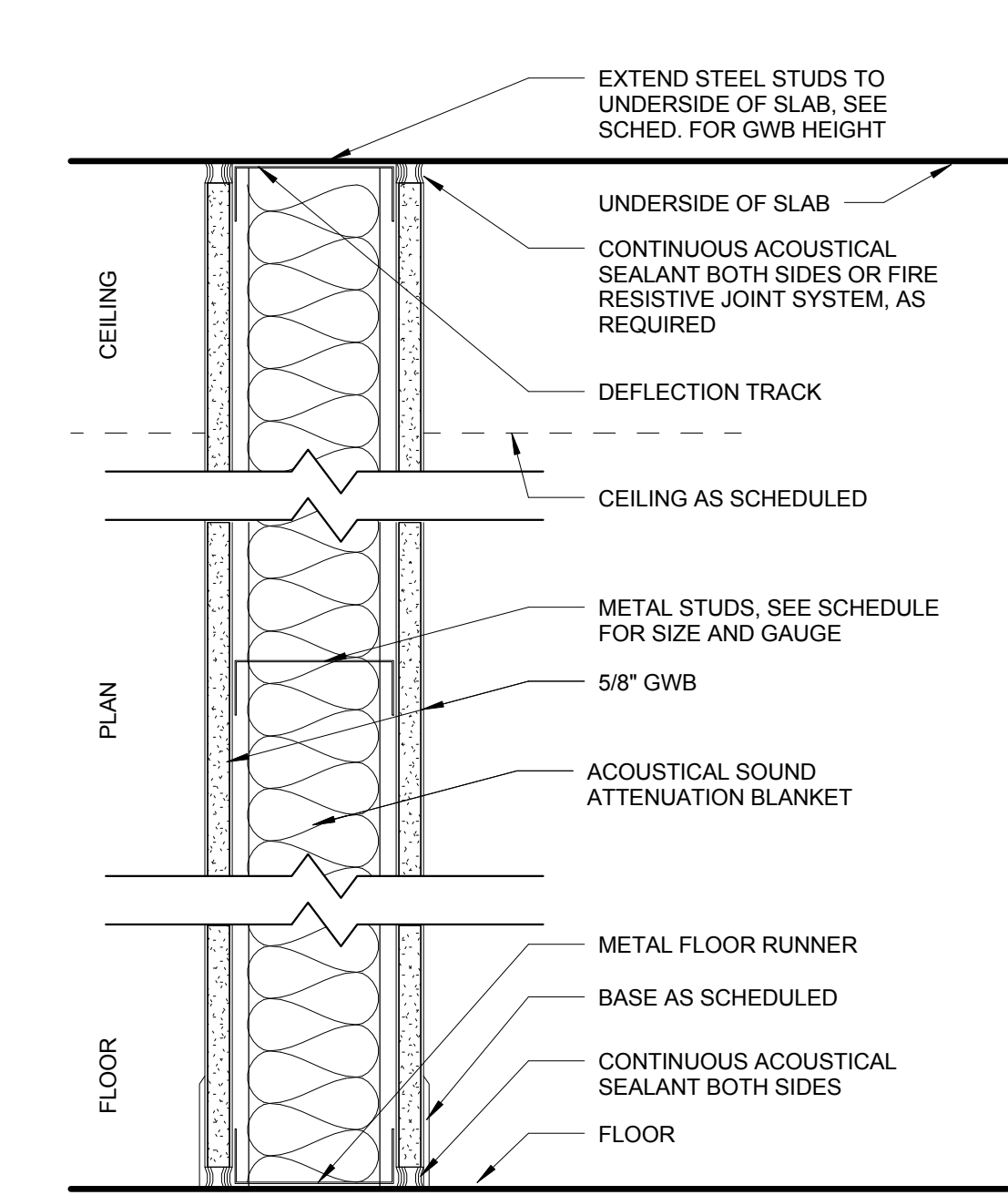
4-SERIES PARTITION - 4 LAYER GWB  
 N.T.S. - REFER TO SCHEDULE FOR MORE INFORMATION



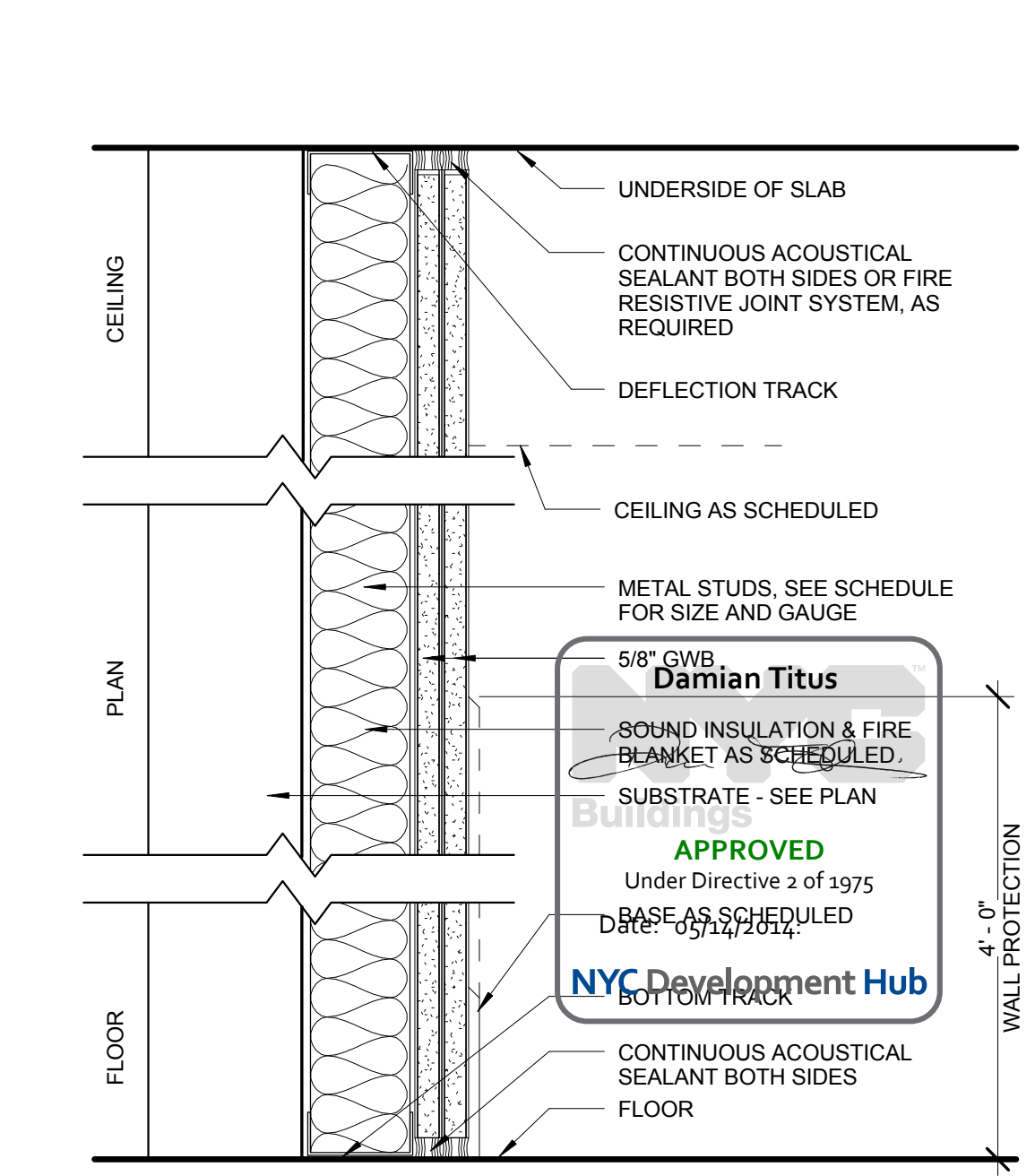
3-SERIES PARTITION - 3 LAYER GWB  
 N.T.S. - REFER TO SCHEDULE FOR MORE INFORMATION



M-SERIES CMU WALL  
 N.T.S. - REFER TO SCHEDULE FOR MORE INFORMATION



2-SERIES PARTITION - 2 LAYER GWB  
 N.T.S. - REFER TO SCHEDULE FOR MORE INFORMATION



1-SERIES PARTITION - 1 LAYER GWB  
 N.T.S. - REFER TO SCHEDULE FOR MORE INFORMATION

# HUDSON YARDS - PLATFORM

Address:  
 530 WEST 33RD STREET  
 NEW YORK, NY

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 New York, NY 10022  
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Construction Manager  
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 TEL: 212.708.3600

Architect  
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 New York, NY 10005  
 TEL: 212.266.8300 FAX: 212.571.6825

LRR Ventilation  
 Ove Arup & Partners P.C.  
 77 Water Street  
 New York, NY 10005  
 212.896.3000

LRR Substation  
 AECOM  
 605 Third Avenue  
 New York, NY 10158  
 TEL: 212.973.9300 FAX: 212.682.6172

No.	Description	Date
1	DOB SUBMISSION	10/18/2013
2	L.R.R. - 100% MoE PLATFORM	11/22/2013
3	L.R.R. - 90% MoE SUBMISSION	10/04/2013
4	L.R.R. - 60% SUBMISSION	8/09/2013
5	L.R.R. - 60% MoE SUBMISSION	7/12/2013
6	NYC DOB Filing	6/17/2013
7	L.R.R. - 60% SUBMISSION	5/20/2013
8	L.R.R. - 50% SUBMISSION	2/15/2013

Rev. Plan

Date: 04/12/13  
 Project No: 2108  
 Drawn By: [Signature]  
 Check By: [Signature]  
 Title: [Signature]

HYE-PL-A-601.00  
 Drawing File

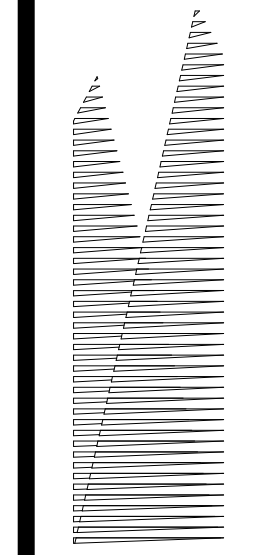
Approved  
 Under Directive 3 of 1975  
 NYC Development Hub

Drawn by: [Signature]  
 A-601.00



**HUDSON YARDS - PLATFORM**

Address:  
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 212.896.3000

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 605 Third Avenue  
 New York, NY 10158  
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**NYC DOB Filing**  
 6/17/2013

**NYC DOB Filing**  
 5/20/2013

**NYC DOB Filing**  
 2/15/2013

**NYC DOB Filing**  
 2/15/2013

**NYC DOB Filing**  
 2/15/2013

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 2/15/2013

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 2/15/2013

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 2/15/2013

**NYC DOB Filing**  
 2/15/2013

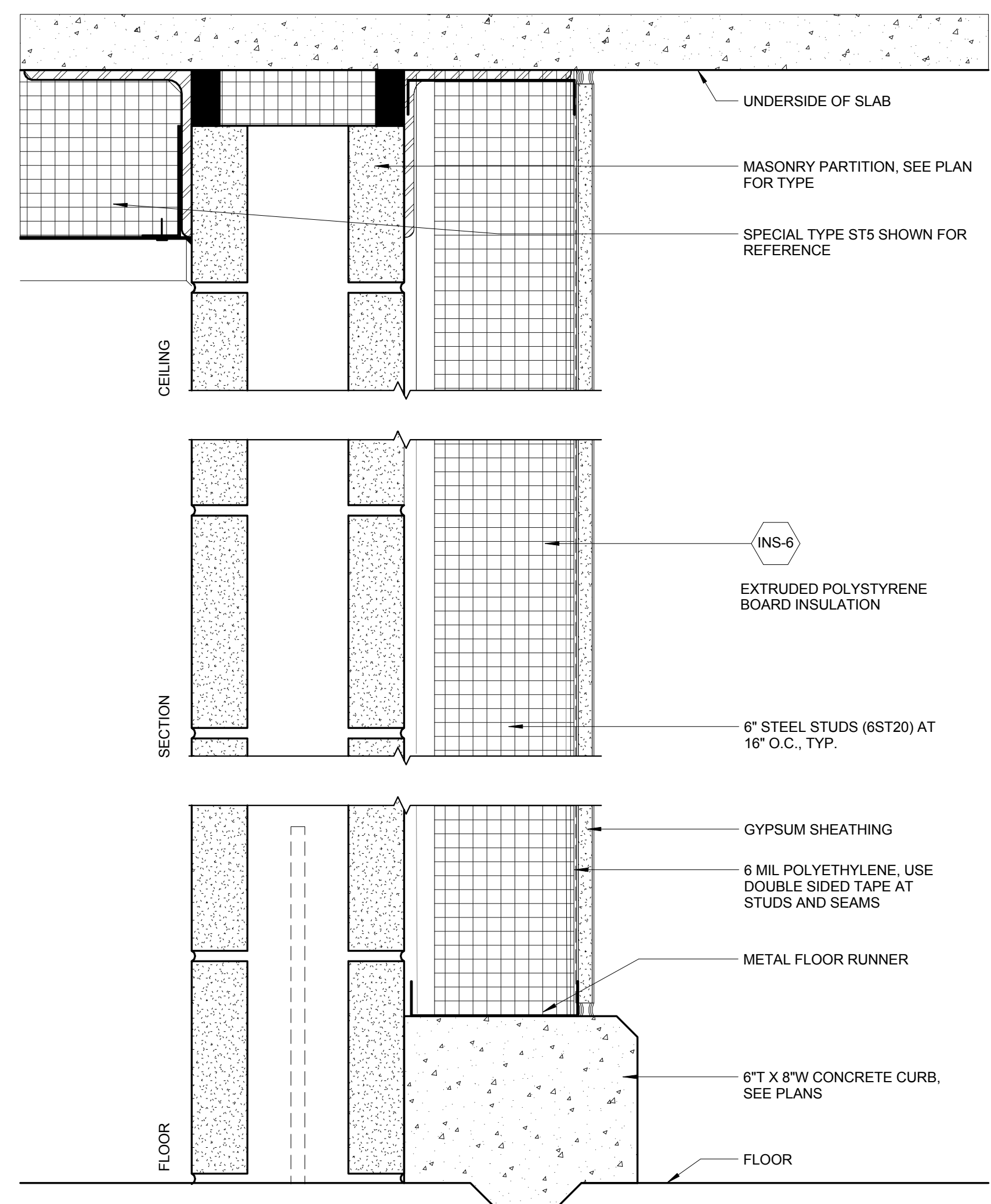
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 2/15/2013

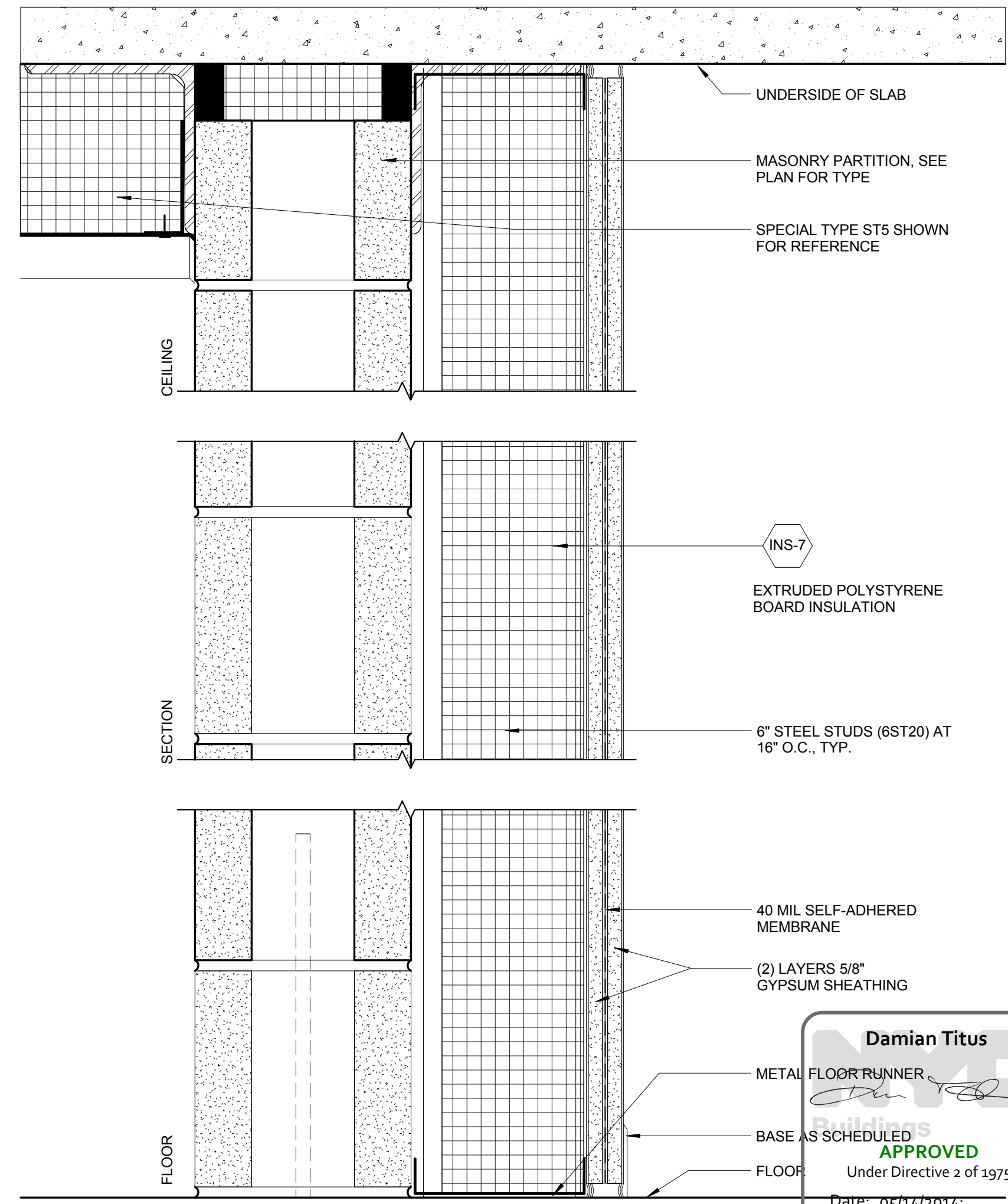
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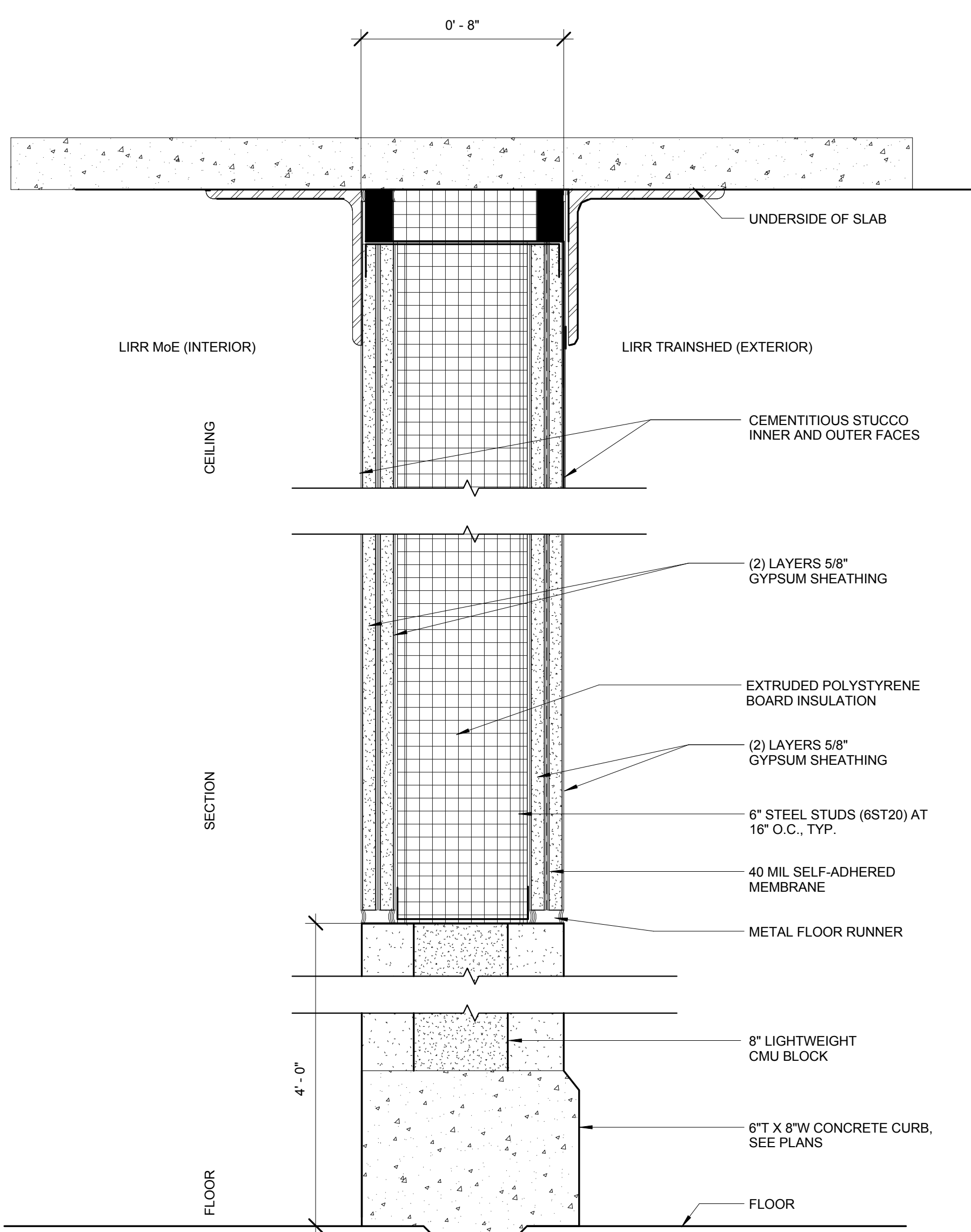
**NYC DOB Filing**  
 2/15/2013



**ST2-SERIES PARTITION**  
 N.T.S. - REFER TO SCHEDULE FOR MORE INFORMATION



**ST1-SERIES PARTITION**  
 N.T.S. - REFER TO SCHEDULE FOR MORE INFORMATION



**ST3-SERIES PARTITION**  
 N.T.S. - REFER TO SCHEDULE FOR MORE INFORMATION

No.	Description	Date
1	DOB SUBMISSION	10/18/2013
2	L.I.R.R. - 100% M&E PLATFORM	11/22/2013
3	L.I.R.R. - 90% M&E SUBMISSION	10/04/2013
4	L.I.R.R. - 80% SUBMISSION	8/09/2013
5	L.I.R.R. - 60% M&E SUBMISSION	7/12/2013
6	NYC DOB Filing	6/17/2013
7	L.I.R.R. - 60% SUBMISSION	5/20/2013
8	L.I.R.R. - 30% SUBMISSION	2/15/2013

Rev. Plan

Date: 02/15/13  
 Project No: 219  
 Drawing No: 219  
 Sheet Number: 219  
 Drawing Title: HYE -PL -A-602.00

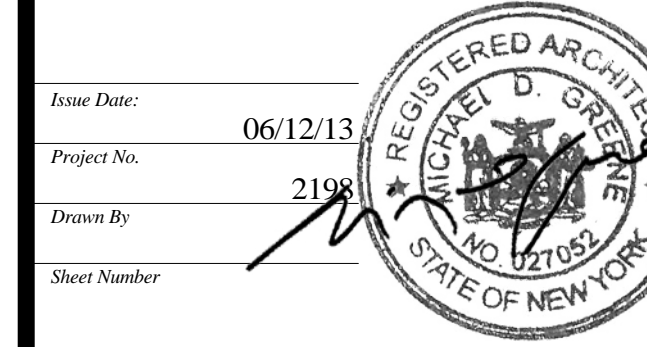
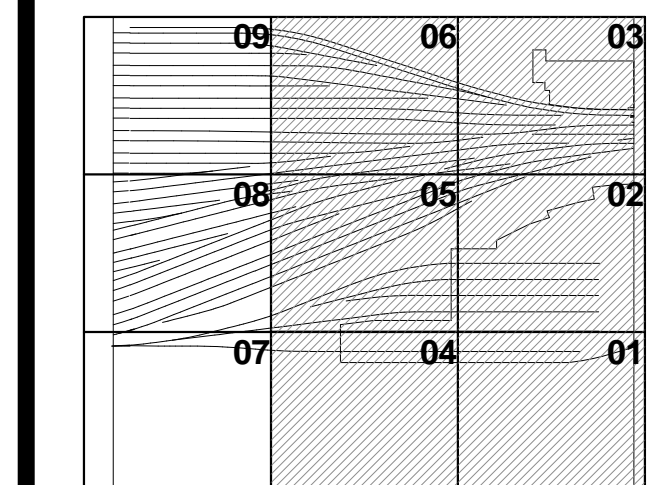
**HYE -PL -A-602.00**

**SPECIALTY PARTITION TYPES**

**A-602.00**



7. DOB SUBMISSION	10/18/2013
6. L.I.R.R. - 100% MoE-PLATFORM	11/22/2013
5. L.I.R.R. - 60% MoE SUBMISSION	10/04/2013
4. L.I.R.R. - 60% MoE SUPPLEMENT	8/02/2013
3. L.I.R.R. - 60% MoE SUBMISSION	7/12/2013
2. NYC DOB FILE	6/12/2013
1. L.I.R.R. - 30% MoE SUBMISSION	6/14/2013
Description	Date



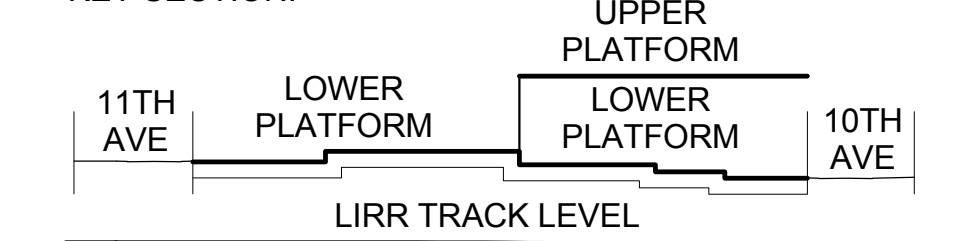
**HYE-PL-A-800.00**

**FLOOR PLAN MoE TRACK LEVEL OVERALL PLAN**

Drawing Title  
**A-800.00**

**GENERAL NOTES**

1. HATCHED AREA DENOTES PROPOSED NON-LIRR AREA
2. HATCHED AREA DENOTES LIRR PLATFORM SCOPE NOT INCLUDED IN THE SCOPE OF MOE/ACI SUBSTATION/CONTROL TOWER SUBMISSION
3. PLATFORM LOWER LEVEL PROVIDES THE ENCLOSURE TO LIRR TRAINYARD AREA. PLATFORM UPPER LEVEL INCLUDES TEMPORARY REQUIRED OVER THROAT AND BASE OF RETAIL PODIUM KEY SECTION:



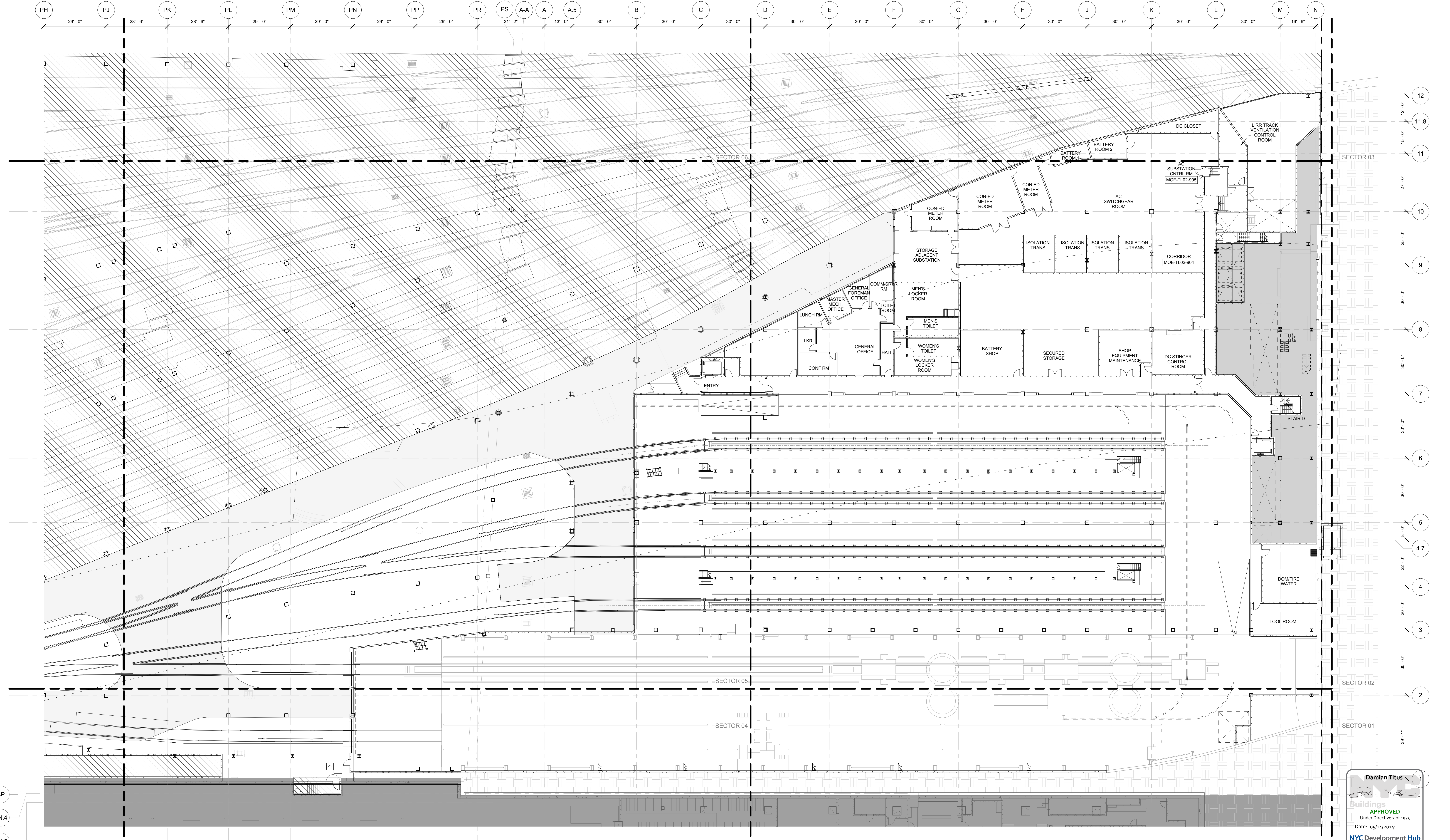
SEE A-020 FOR DIAGRAMMATIC VIEW OF 3-HR SEPARATION AND EXTENT OF LIRR TRAINYARD ENCLOSURE

**SYMBOL KEY**

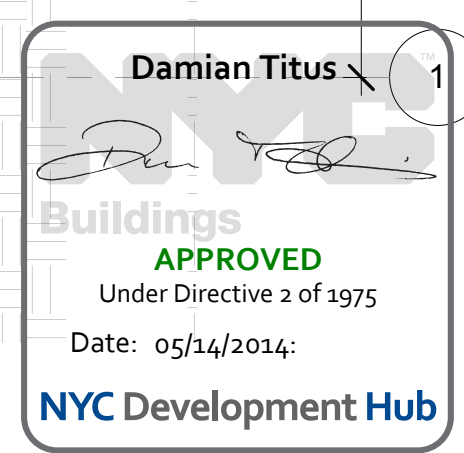
	1-HOUR RATED WALL
	2-HOUR RATED WALL
	3-HOUR RATED WALL

SEE SECTOR PLANS FOR WALL TYPES, ROOM NAMES, DOOR TYPES, ETC.

4. LIRR EXISTING UTILITIES SHOWN FOR INFORMATION EXISTING UTILITIES BASED ON AS-BUILT DRAWINGS DATED 1982. REFER TO STRUCTURAL DRAWINGS FOR FURTHER FOUNDATION INFORMATION.
5. LIRR EMPLOYEE ACCESS STAIR PROVIDED AS PART OF TOWER C PROJECT. N.I.C.
6. WATERPROOFING TO BE INSTALLED FOR ALL NEW SLABS ON GRADE. SEE STRUCTURAL DRAWINGS FOR EXTENT.



**1 MoE TRACK LEVEL OVERALL PLAN**  
SCALE: 1/16" = 1'-0"



A-800.00  
10/29/2013 1:47:43 PM  
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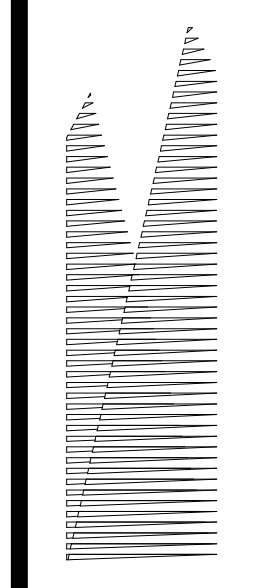












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NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&U PLATFORM SUBMISSION	
Δ D1-02 PHASE I STRUCTURAL UPDATE	1/11/2013
NYC DOB FILING	10/4/2013
Δ D1-01 PHASE I STRUCTURE UPDATE	9/20/2013
L.I.R.R. - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
L.I.R.R. - 60% SUBMISSION	5/29/2013
L.I.R.R. - 60% - PHASE I FDNS	3/29/2013
L.I.R.R. - 30% SUBMISSION	2/15/2013
Rev Description	Date

Rev Plot

Date: 02/15/2013

Project No: N11330.00

Author

Minor Number

**HYE - PL - S-005.00**

Drawing Title

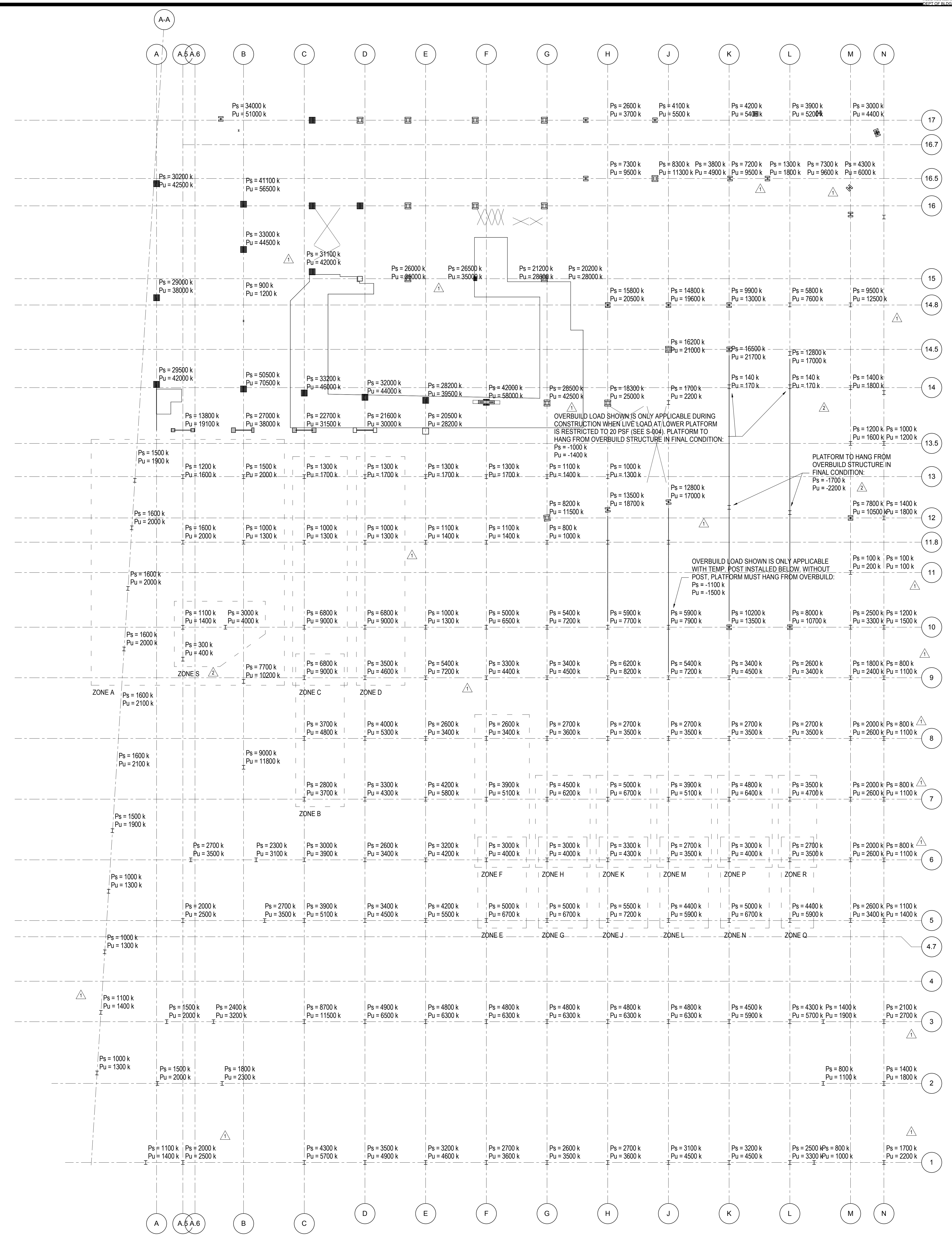
**LOADING DIAGRAMS - EAST PLATFORM OVERBUILD LOADS**

Drawing Number / B/S/C/S/D Drawing Number

**S-005.00**

SHEET 6 OF 201

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**SHEET NOTES:**

1. LOADS INDICATE PEAK DESIGN CAPACITIES OF PLATFORM STRUCTURE AT GIVEN LOCATIONS FOR FUTURE COLUMN LOADS ABOVE

2. NOTATIONS:

Ps INDICATES SERVICE AXIAL FORCE IN KIPS

Pu INDICATES ULTIMATE AXIAL FORCE IN KIPS

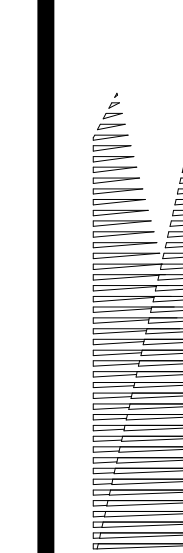
3. FOR COLUMNS WITHIN ZONES INDICATED ON PLAN, SUM OF COLUMN LOADS IS NOT TO EXCEED THE FOLLOWING:

ZONE	Ps (k)	Pu (k)
ZONE A	1500	1970
ZONE B	1190	1570
ZONE C	890	1170
ZONE D	910	1200
ZONE E	700	930
ZONE F	840	1100
ZONE G	700	930
ZONE H	660	900
ZONE J	750	1000
ZONE K	630	830
ZONE L	620	820
ZONE M	530	700
ZONE N	700	930
ZONE P	590	780
ZONE Q	620	820
ZONE R	530	700
ZONE S	400	520

**1 OVERBUILD CAPACITIES**  
1" = 20'-0"

**Damian Titus**  
APPROVED  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub





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*Construction Manager*  
Tishman Construction Corporation  
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New York, NY 10017  
Tel: 212.708.3600

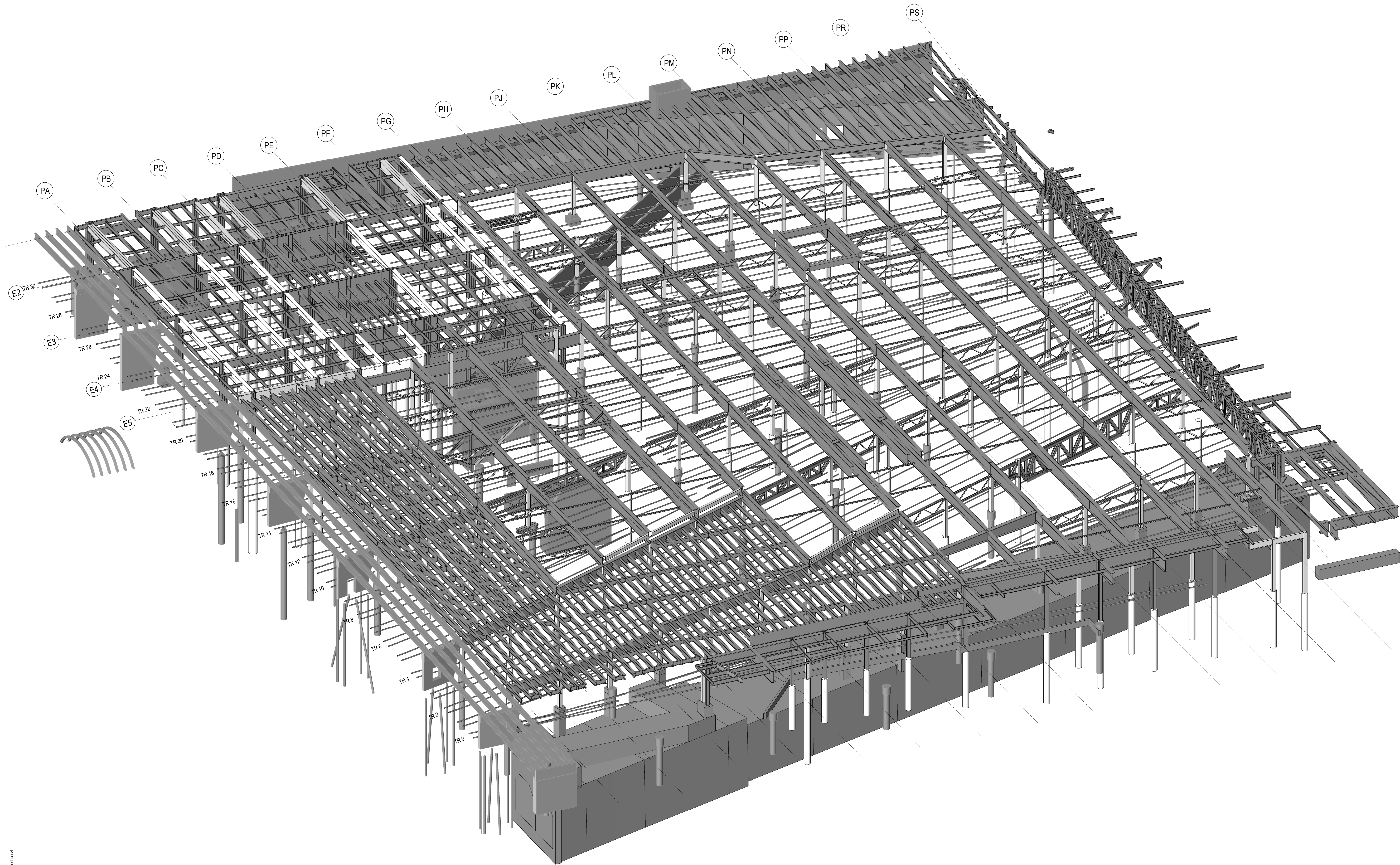
*Architect*  
Kohn Pedersen Fox Associates PC  
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NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M.E. - PLATFORM SUBMISSION	
2. DI-02 PHASE 1 STRUCTURAL UPDATE	11/1/2015
NYC DOB FILING	10/4/2015
3. DI-04 PHASE 1 STRUCTURE UPDATE	9/29/2015
L.I.R.R. - 90% SUBMISSION	8/09/2015
NYC DOB FILING	6/17/2015
L.I.R.R. - 60% SUBMISSION	5/29/2015
L.I.R.R. - 60% - PHASE 1 FINIS	3/29/2015
L.I.R.R. - 30% SUBMISSION	2/15/2015
NYC DOB FILING	

NYC DOB FILING

NYC DOB FILING

NYC DOB FILING

NYC DOB FILING

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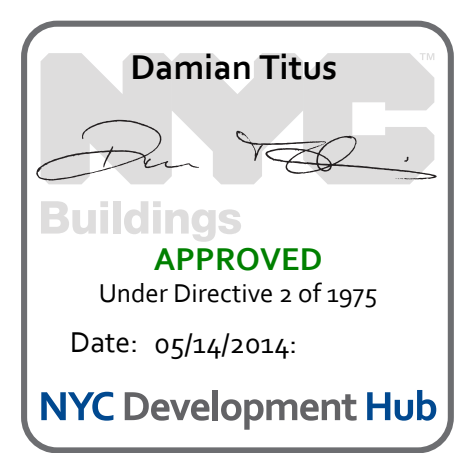
NYC DOB FILING

NYC DOB FILING

NYC DOB FILING

5/10/00 WEST PLATFORM ISOMETRIC VIEW  
1/25/2013 2:28:34 PM  
C:\cambant\103030 - East Platform - Canal - sheet4

NOTES:  
1. ISOMETRIC IS INDICATIVE ONLY. PLEASE REFER TO SECTIONS & DETAILS.  
2. COLUMNS TYPICALLY TERMINATE BELOW NORTH-SOUTH PLATE GIRDERS  
3. DECK SLAB OMITTED FOR CLARITY OVER PART OF PLATFORM



Draw: 2/15/2013  
Project No: N11330.00  
Author: Author

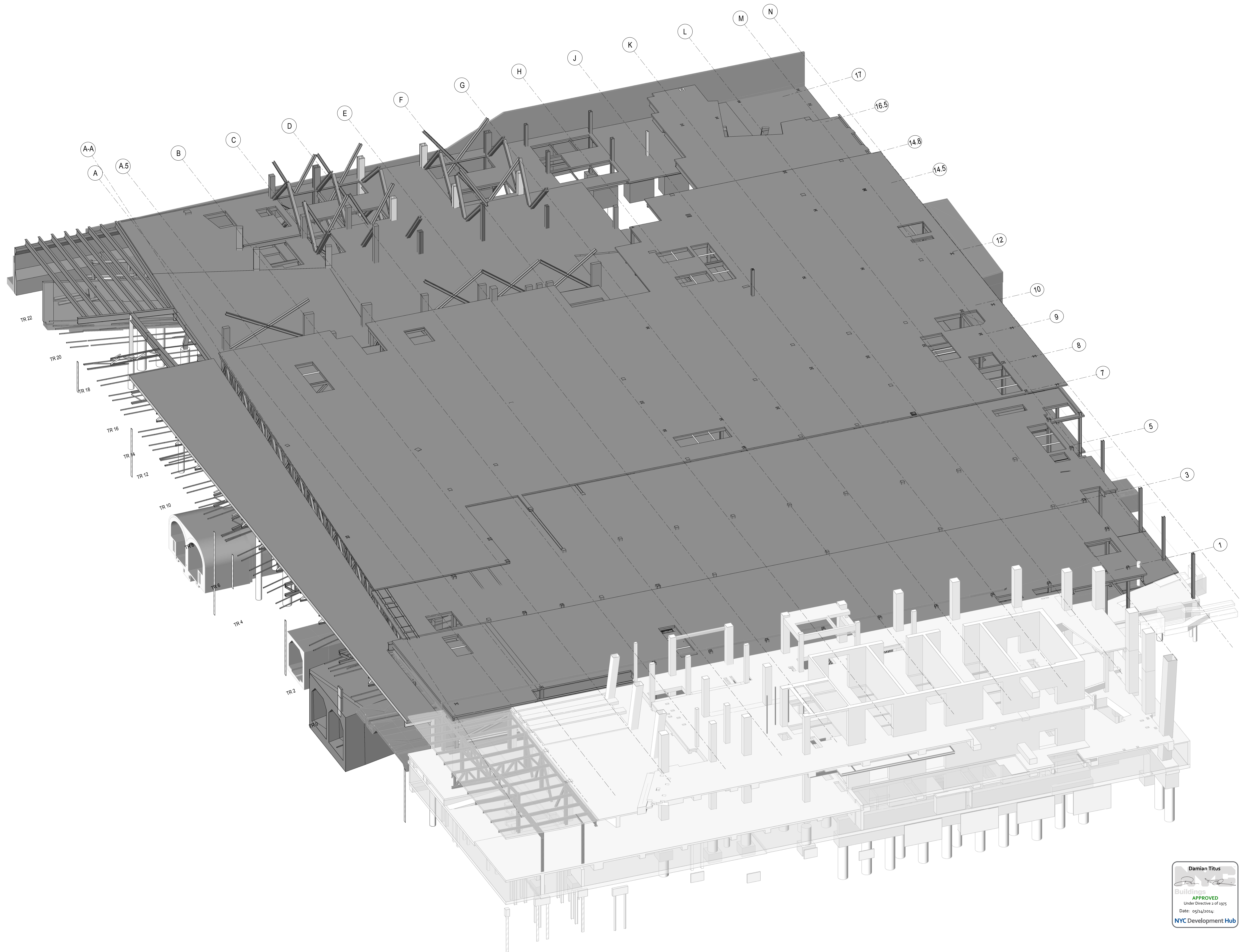
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**WEST PLATFORM  
ISOMETRIC VIEW**

Drawing Number / A-S-C-N Drawing Number  
**S-010.00**  
SHEET 7 OF 201

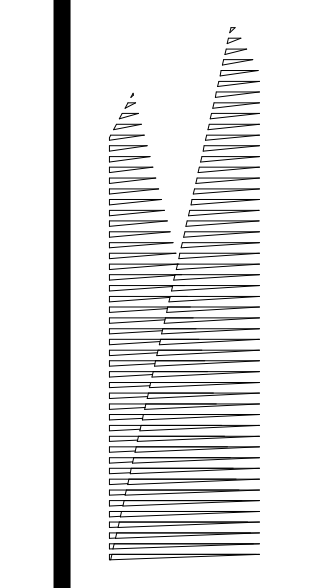
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NEW YORK, NY



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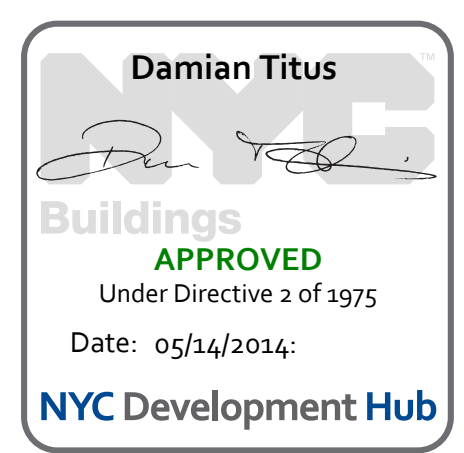
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605 Third Avenue  
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File Name	Description	Date
NYC DOB FILING	100%	12/4/2013
L.I.R.R. - PRE-FINAL		11/22/2013
Mod - PLATFORM SUBMISSION		
Δ 01-02 PHASE I STRUCTURAL UPDATE		11/1/2013
NYC DOB FILING		10/4/2013
Δ 01-01 PHASE I STRUCTURE UPDATE		9/20/2013
LIRR - 90% SUBMISSION		8/29/2013
NYC DOB FILING		6/17/2013
LIRR - 60% SUBMISSION		5/29/2013
LIRR - 60% - PHASE I FDNS		3/29/2013
LIRR - 30% SUBMISSION		2/15/2013
NYC DOB FILING		01/15/2013

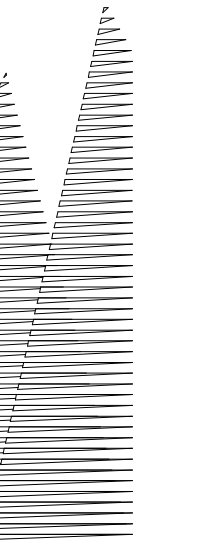


Date: 02/15/2013  
Project No: N11330.00  
Drawing No: Author

**HYE - PL - S-011.00**  
**EAST PLATFORM ISOMETRIC VIEW (WITH SLABS)**

Drawing Number / Revision Drawing Number  
**S-011.00**





Client  
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60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Officer Properties Group  
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Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

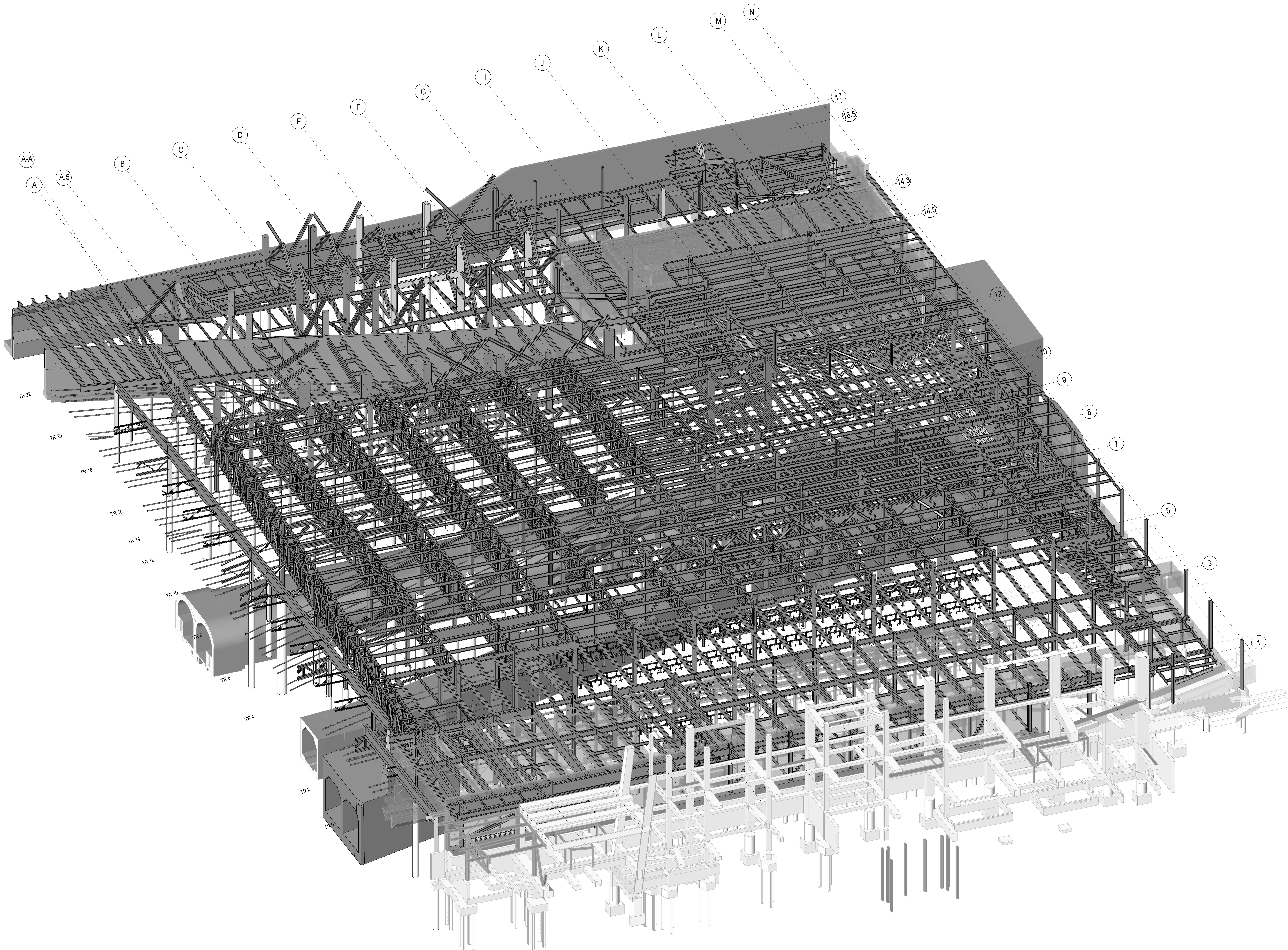
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
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Tel: 212.977.6500 Fax: 212.956.2526

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Parsons Transportation Group  
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LIRR Ventilation  
Ove Arup & Partners P.C.  
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New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



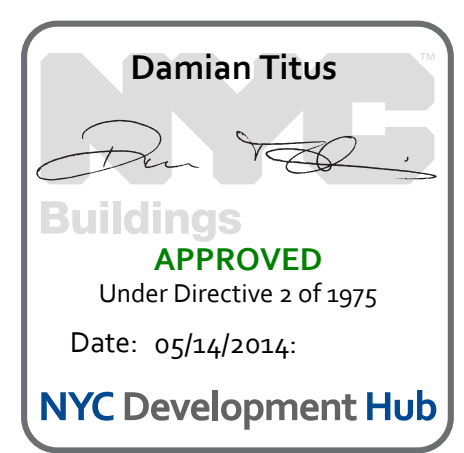
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NYC DOB FILING	10/4/2013
A - 01-01 PHASE 1 STRUCTURE UPDATE	9/20/2013
L.I.R.R. - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
L.I.R.R. - 60% SUBMISSION	5/29/2013
L.I.R.R. - 60% - PHASE 1 FDNS	3/29/2013
L.I.R.R. - 30% SUBMISSION	2/15/2013
By Description	Date

For Plot

Date: 02/15/2013  
Project No: N11330.00  
Author: Author

**HYE -PL -S-012.00**  
Drawing Title  
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ISOMETRIC VIEW  
(WITHOUT SLABS)**

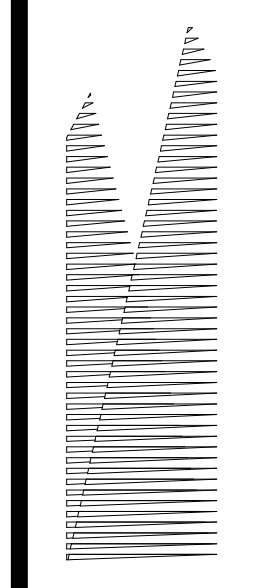
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**S-012.00**  
SHEET 9 OF 201





**HUDSON YARDS PLATFORM**

Address  
530 WEST 33RD STREET  
NEW YORK, NY



**Client**  
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60 Columbus Circle  
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**LIRR Substation**  
AECOM  
605 Third Avenue  
New York, NY 10158  
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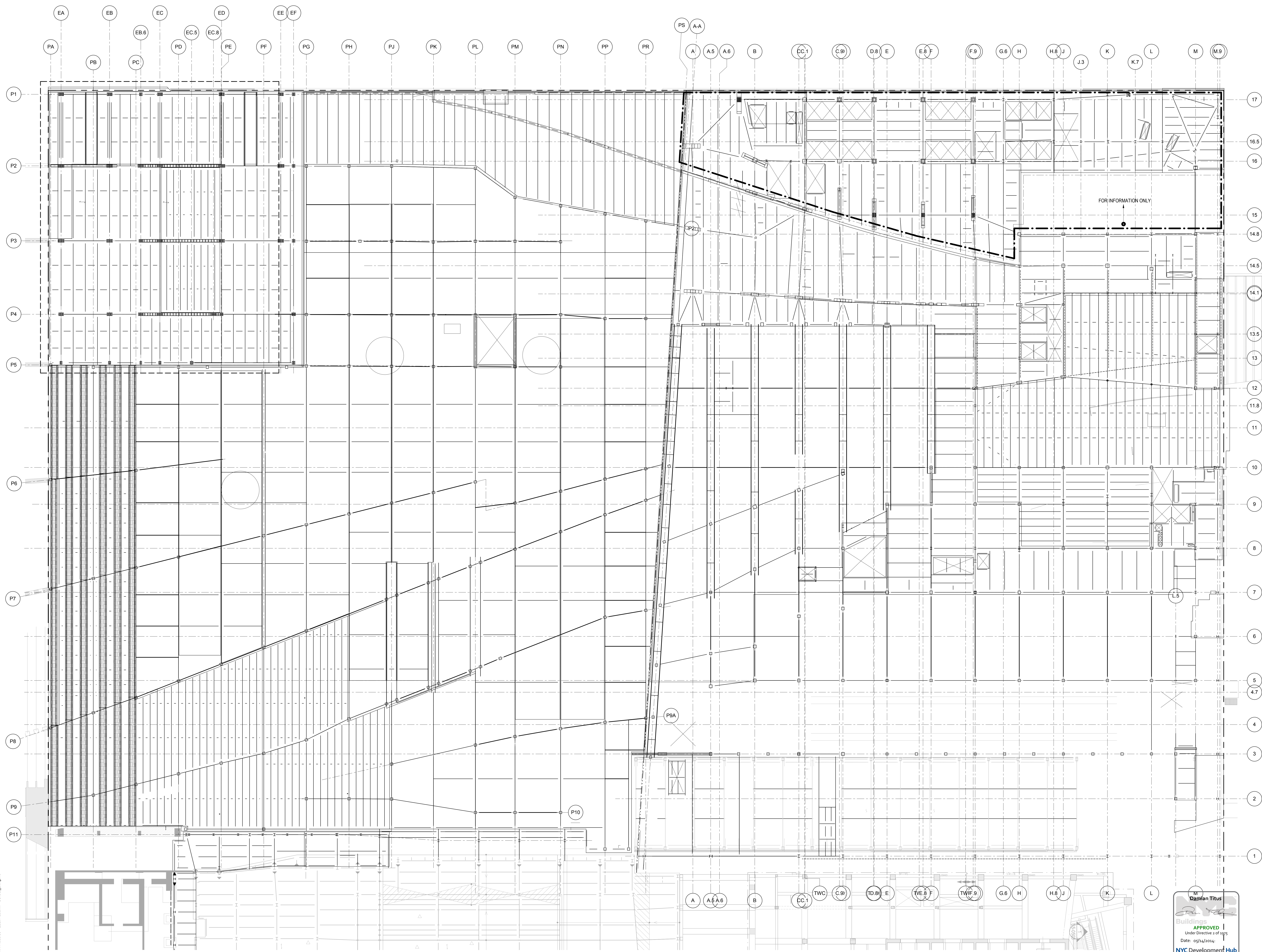
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NYC DOB FILING	10/4/2013
Δ - DI-01 PHASE I STRUCTURE UPDATE	9/20/2013
L.I.R.R. - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
L.I.R.R. - 60% SUBMISSION	5/29/2013
L.I.R.R. - 60% - PHASE I FDNS	3/29/2013
L.I.R.R. - 30% SUBMISSION	2/15/2013
Rev. Description	Date

Rev. Description	Date
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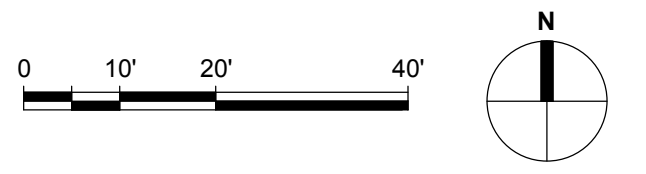
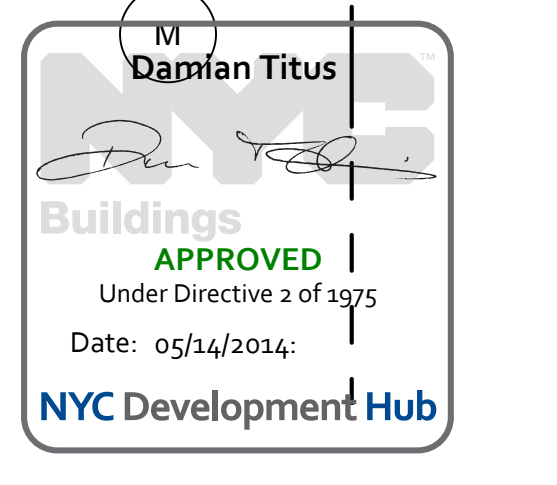
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Project No: N11330.00  
Drawing Title: Author  
NYC Development Hub

**HYE-PL-S-103.00**  
**COMPOSITE PLAN, PLATFORM LOWER LEVEL**

Drawing Number: /B/S/C/S Drawing Number  
**S-103.00**



**NOTE:**  
1. STRUCTURAL SEPARATION TO ADJACENT STRUCTURES SHALL BE IN ACCORDANCE WITH NYCBC SECTION 1617.3.2 WITH A MINIMUM STRUCTURAL SEPARATION OF 1" FOR EVERY 50 FEET IN HEIGHT. GAP AT TOP OF PLATFORM SHALL MEET OR EXCEED 0.64" PER CODE. SEE ARCHITECTURAL DRAWINGS FOR SEPARATION WHICH EXCEEDS THIS VALUE.



S-103.00  
3/20/2014 6:02:47 PM  
COMPOSITE PLAN, PLATFORM LOWER LEVEL  
C:\s\h\h\1330\_00 - East Platform - Central.dwg, ntc

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445 Third Avenue  
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**NYC DOB FILING** 12/4/2013  
**LIRR - PRE-FINAL** 11/22/2013

**MEP - PLATFORM SUBMISSION**  
**Δ - DI-02 PHASE I STRUCTURAL UPDATE** 11/1/2013  
**NYC DOB FILING** 10/4/2013  
**Δ - DI-01 PHASE I STRUCTURE UPDATE** 9/20/2013  
**LIRR - 90% SUBMISSION** 8/09/2013  
**NYC DOB FILING** 6/17/2013  
**LIRR - 60% SUBMISSION** 5/29/2013  
**LIRR - 60% - PHASE I FDNS** 3/29/2013  
**LIRR - 30% SUBMISSION** 2/15/2013

**Fig. Plan**

**NYC DOB FILING** 12/4/2013  
**LIRR - PRE-FINAL** 11/22/2013

**MEP - PLATFORM SUBMISSION**  
**Δ - DI-02 PHASE I STRUCTURAL UPDATE** 11/1/2013  
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**Δ - DI-01 PHASE I STRUCTURE UPDATE** 9/20/2013  
**LIRR - 90% SUBMISSION** 8/09/2013  
**NYC DOB FILING** 6/17/2013  
**LIRR - 60% SUBMISSION** 5/29/2013  
**LIRR - 60% - PHASE I FDNS** 3/29/2013  
**LIRR - 30% SUBMISSION** 2/15/2013

**Fig. Plan**

**NYC DOB FILING** 12/4/2013  
**LIRR - PRE-FINAL** 11/22/2013

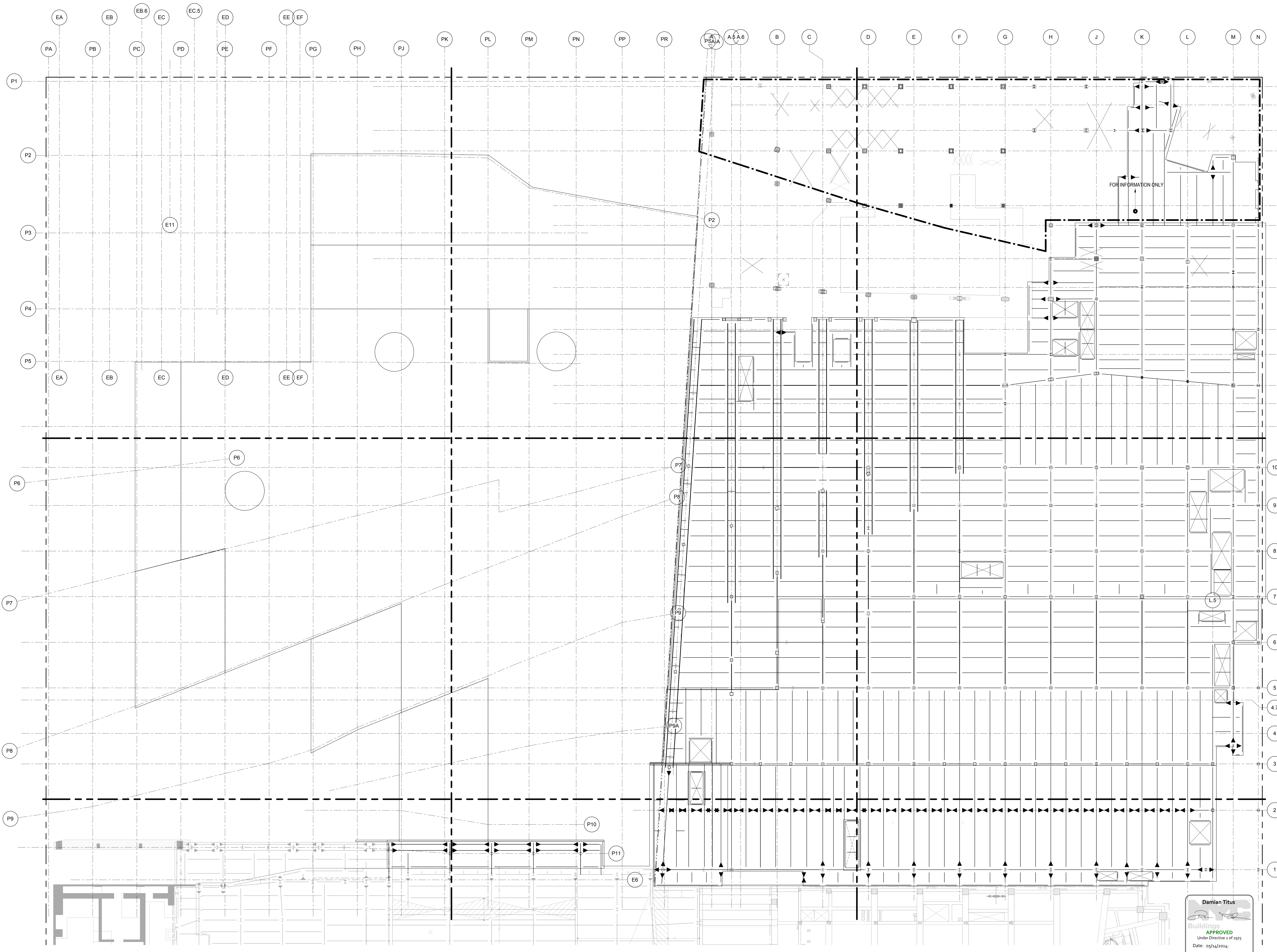
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**LIRR - 90% SUBMISSION** 8/09/2013  
**NYC DOB FILING** 6/17/2013  
**LIRR - 60% SUBMISSION** 5/29/2013  
**LIRR - 60% - PHASE I FDNS** 3/29/2013  
**LIRR - 30% SUBMISSION** 2/15/2013

**Fig. Plan**

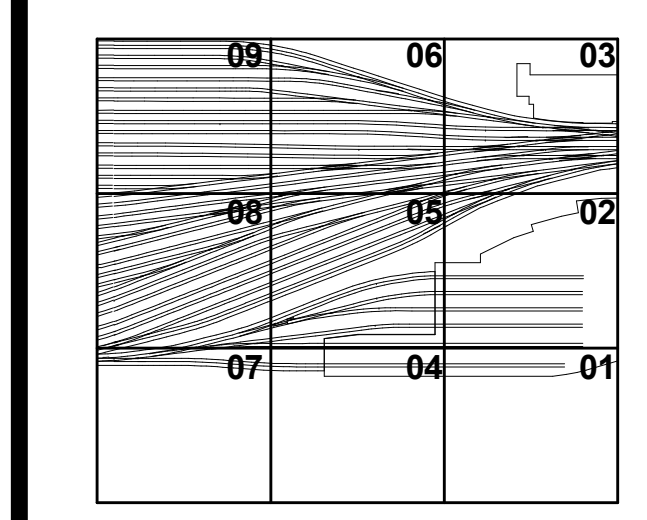
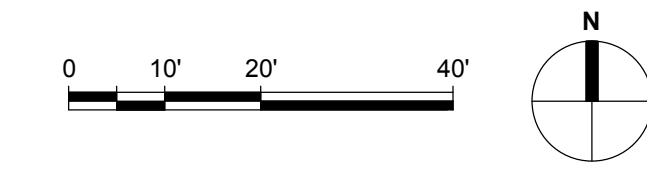
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Project No: N11330.00  
Drawn By: Author  
Issue Number: Author

**HYE-PL-S-104.00**  
**COMPOSITE PLAN, PLATFORM UPPER LEVEL**

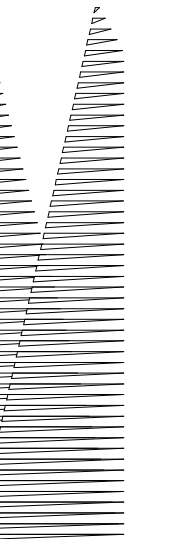
Drawing Number / B/S/C/S Drawing Number  
**S-104.00**  
SHEET 12 OF 201



**Damian Titus**  
Buildings  
**APPROVED**  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub







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Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

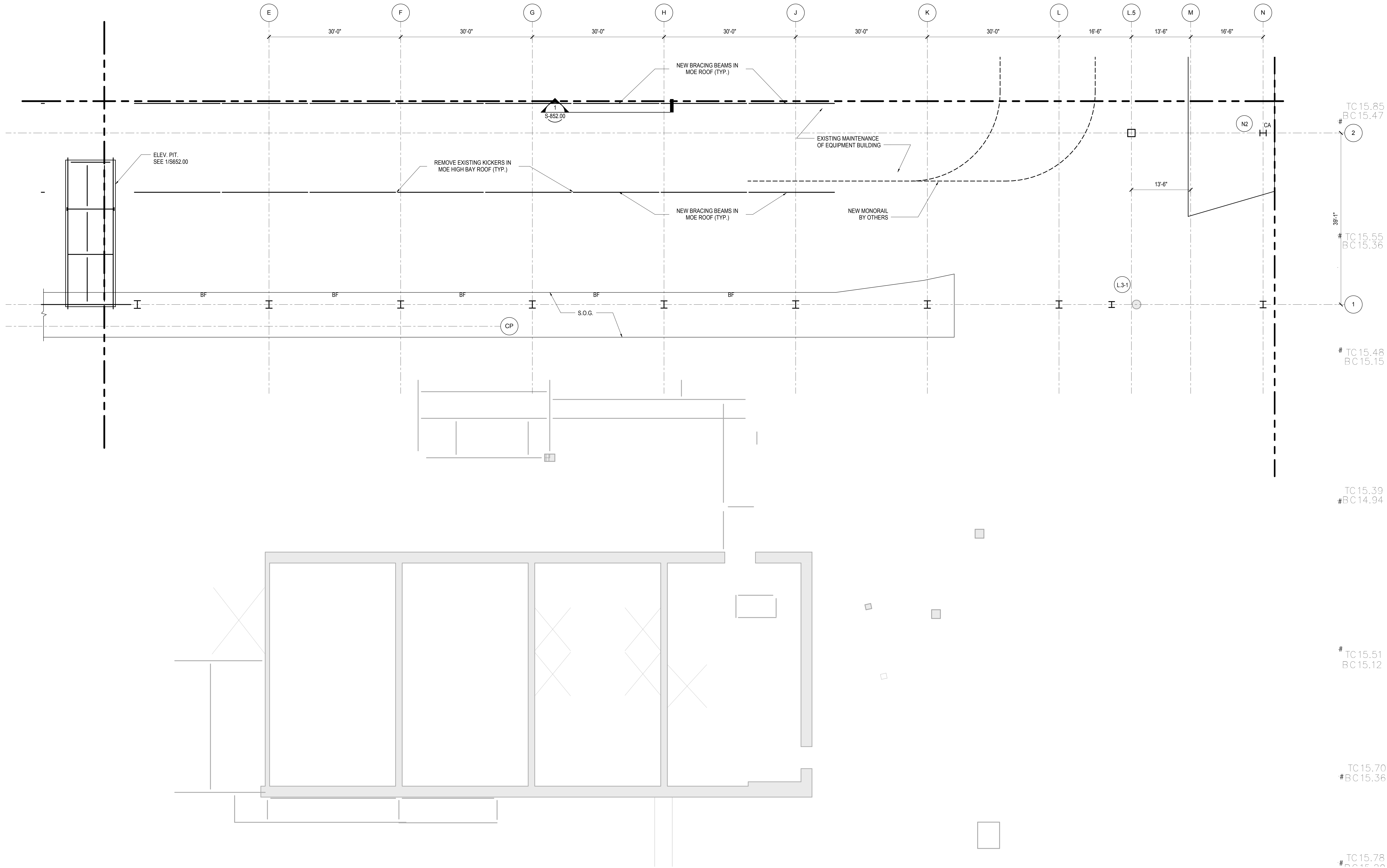
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
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Fire Alarm, Fire Protection, Security  
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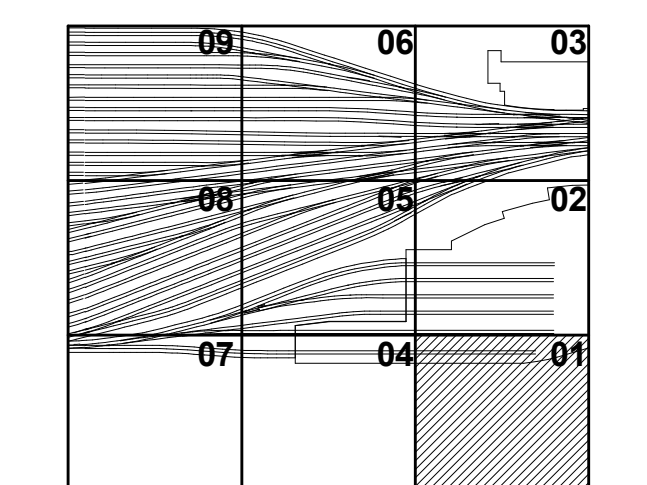
LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
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NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DI-02 PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ - DI-01 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE 1 FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev Plot



Date: 12/14/12  
Project No: N11330.00  
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Issue Number: [Signature]

**HYE-PL-S-131.00**  
Drawing Title  
**PLATFORM LOWER LEVEL PLAN SECTOR 01**

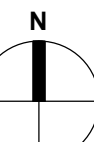
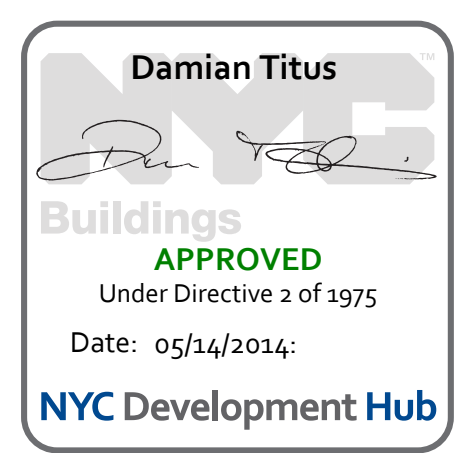
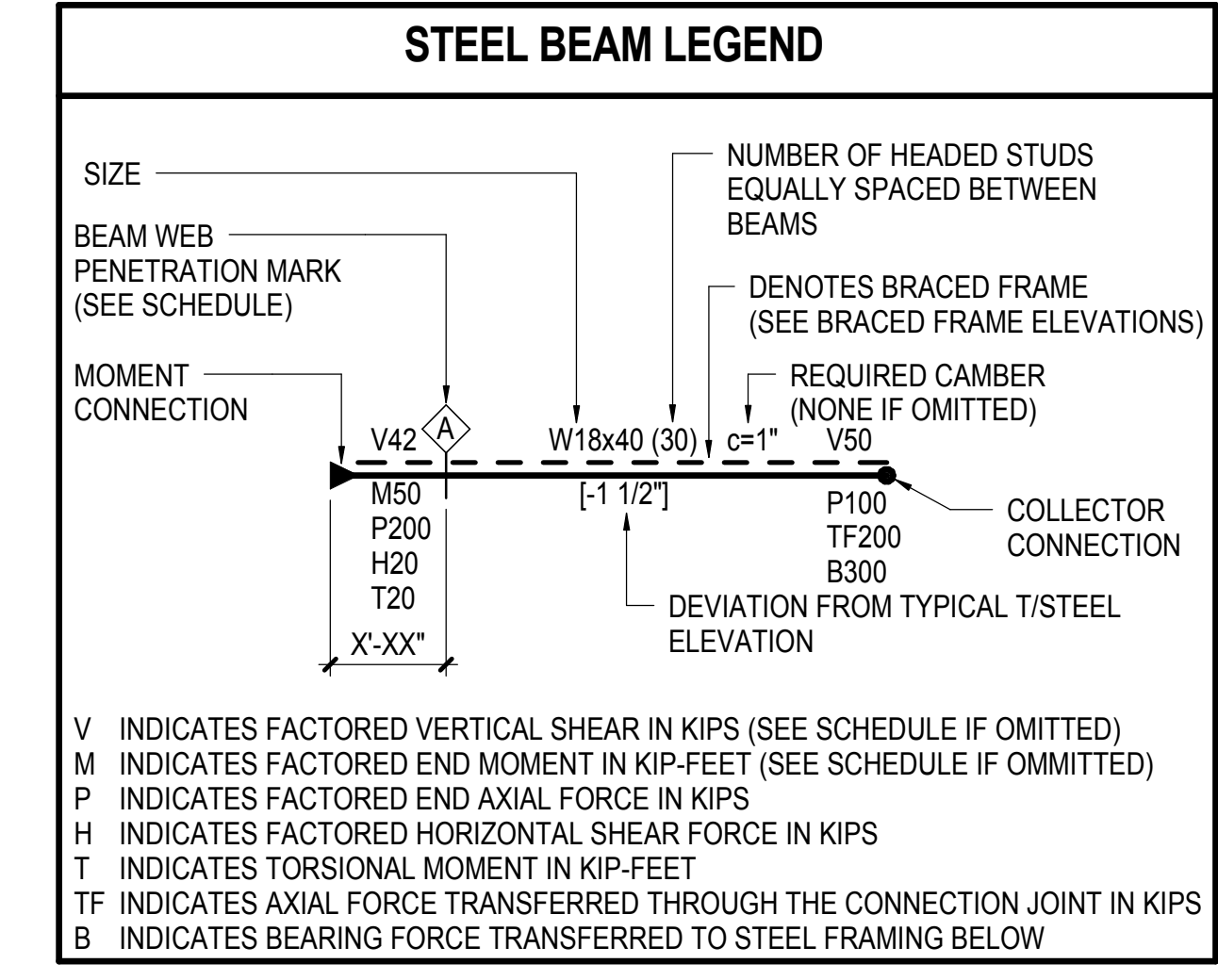
Drawing Number / B/S/C/S Drawing Number  
**S-131.00**  
SHEET 22 OF 201

- SHEET NOTES:**
- T/STRUCTURAL SLAB EL+ UON THIS: X - INDICATES CHANGE IN T/STRUCTURAL SLAB ELEVATION.
  - T/STEEL EL UON
  - INDICATES DECK SPAN DIRECTION. SEE SCHEDULE ON S-003.00
  - FOR ADDITIONAL INFORMATION REFER TO THE FOLLOWING DRAWINGS:  
DRAWING LISTS, GENERAL NOTES, AND LOADING DIAGRAMS S0 SERIES DRAWINGS  
TYPICAL FOUNDATION DETAILS S3 SERIES DRAWINGS  
STEEL COLUMN SCHEDULES S4 SERIES DRAWINGS  
STEEL TYPICAL DETAILS S7 SERIES DRAWINGS

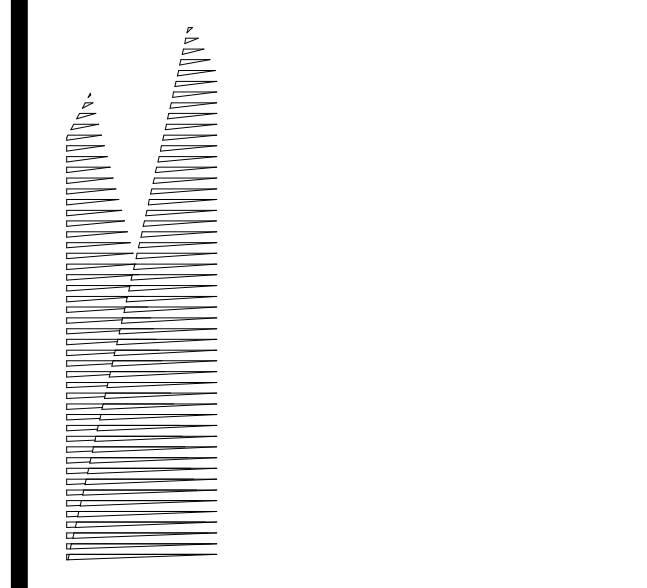
- 5. SYMBOLS:**
- INDICATES MOMENT CONNECTION
  - INDICATES LATERAL BRACING.
  - INDICATES FULL HEIGHT FITTED STIFFENER CONNECTION.
  - INDICATES SLOPE IN TOP OF SLAB
  - INDICATES SPLICE LOCATIONS. SEE S-512.00 FOR DETAILS
  - INDICATES LOCATION OF SLAB TRENCHES. SEE S-341.00 FOR DETAILS
  - INDICATES SLAB OPENING FOR DRAINAGE. TYPICALLY 2'-0". FINAL POSITION BETWEEN BEAMS TO BE COORDINATED WITH ARCHITECT.

- 6. NOTATIONS:**
- CA/CB INDICATES COLUMN ABOVE/BELOW. COMPRESSION AXIAL FORCE IN COLUMN INDICATED WHERE APPLICABLE.
  - PA/PB INDICATES POST ABOVE / BELOW
  - DB INDICATES HSS8X4X3/8 ELEVATOR DIVIDER BEAM (NOT FIREPROOFED)
  - HA/HB INDICATES HANGER ABOVE/BELOW. TENSION AXIAL FORCE IN HANGER BELOW INDICATED WHERE APPLICABLE
  - MF INDICATES LATERAL MOMENT FRAME. SEE MOMENT FRAME ELEVATIONS FOR BEAM INFORMATION AND CONNECTION FORCES
  - PG INDICATES PLATE GIRDER TYPE. SEE S-511.00 FOR SCHEDULE AND DETAILS
  - TC INDICATES TORSIONAL CONNECTION FOR STAIR
  - TR INDICATES COLUMN FROM ABOVE TRANSFERS. COMPRESSION AXIAL FORCE IN COLUMN INDICATED WHERE APPLICABLE
  - BF INDICATES BRACED FRAME. SEE ELEVATIONS
  - FCA INDICATES FUTURE COLUMN ABOVE
  - FHA INDICATES FUTURE HANGER ABOVE

- NOTES:**
- IN PLENUM ZONE'S BRIDGING TO BE INSTALLED BETWEEN PRECAST PLANKS AT 90 DEGREES TO THE PLATE GIRDERS. FINAL POSITION TO BE COORDINATED BY THE CONTRACTOR TO SUIT PLANK DISTRIBUTION.
  - SEE S-513.00 FOR BRIDGING DETAILS







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LIRR Ventilation  
Ove Arup & Partners P.C.  
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Tel: 212.896.3000

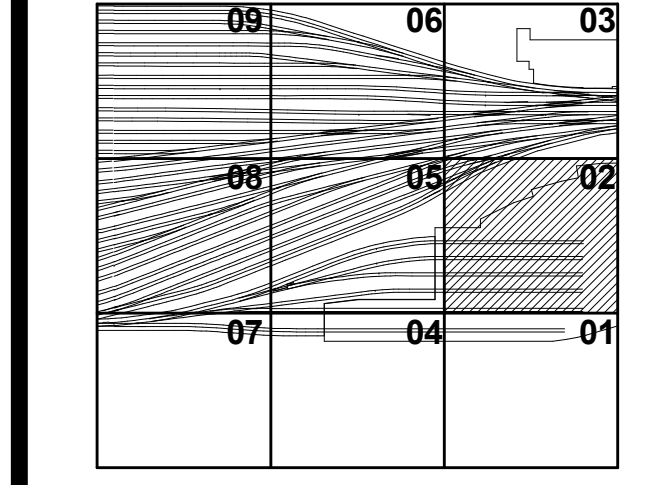
LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
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NYC DOB FILING 12/4/2013  
L.I.R.R. - PRE-FINAL 11/22/2013  
M&T PLATFORM SUBMISSION  
DI-02 PHASE I STRUCTURAL UPDATE 11/1/2013  
NYC DOB FILING 10/4/2013  
PHASE I STRUCTURE UPDATE 9/30/2013  
LIRR - 90% SUBMISSION 8/09/2013  
NYC DOB FILING 6/17/2013  
LIRR - 60% SUBMISSION 5/29/2013  
LIRR - 60% - PHASE I FDNS 3/29/2013  
LIRR - 30% SUBMISSION 2/15/2013

# TC 20.39	# BC 19.89
# TC 19.28	# BC 18.97
# TC 18.75	# BC 18.44
# TC 18.40	# BC 18.04
# TC 17.87	# BC 17.45
# TC 17.38	# BC 16.94
# TC 16.67	# BC 16.37
# TC 16.52	# BC 16.10
# TC 16.17	# BC 15.77
# TC 15.85	# BC 15.47

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL	11/22/2013
M&T PLATFORM SUBMISSION	
DI-02 PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
PHASE I STRUCTURE UPDATE	9/30/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

01	02	03
04	05	06
07	08	09



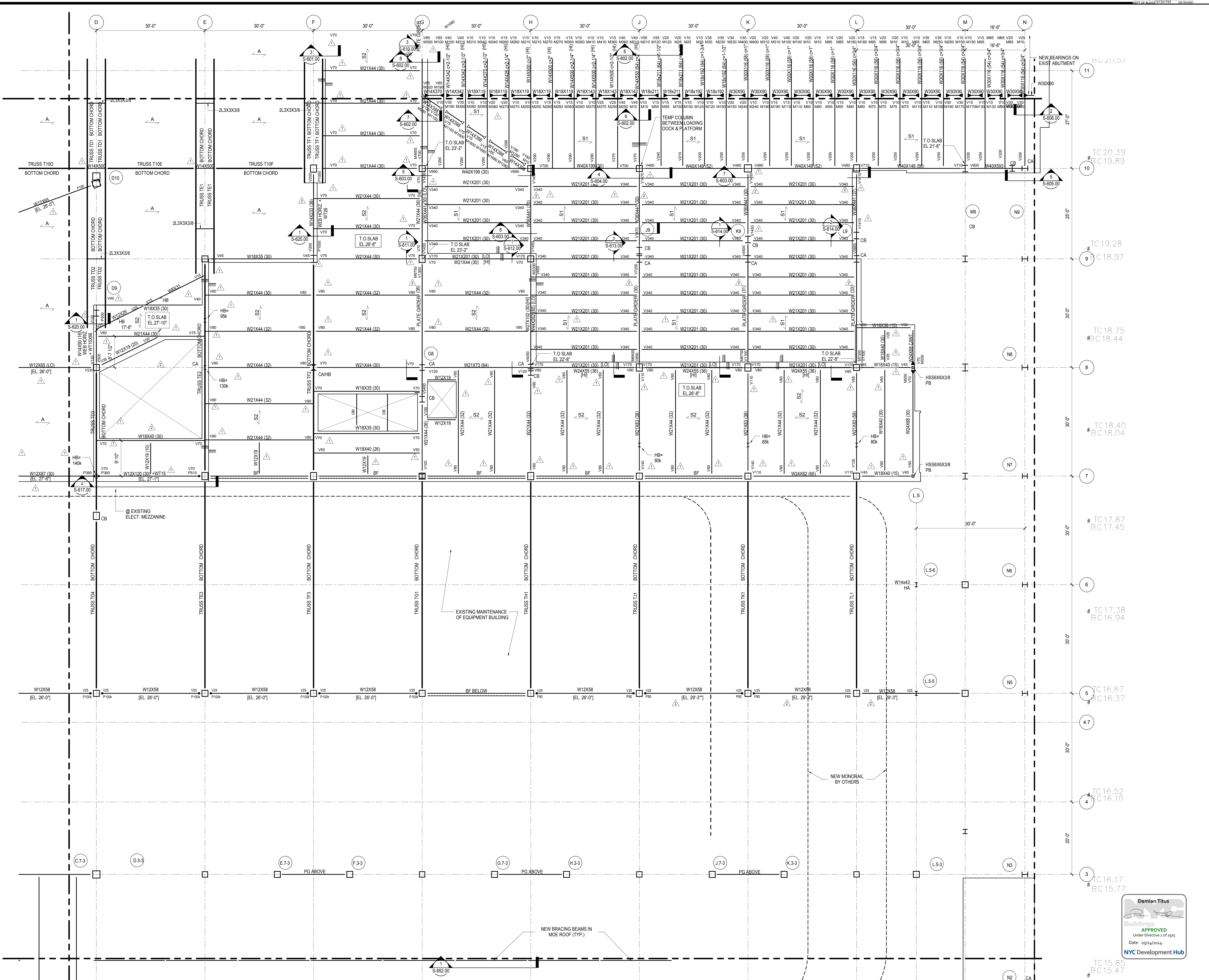
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CHECKED BY: Author

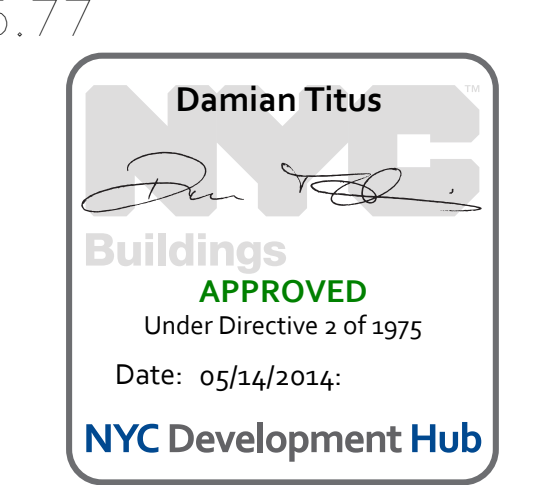
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**PLATFORM LOWER LEVEL PLAN SECTOR 02**

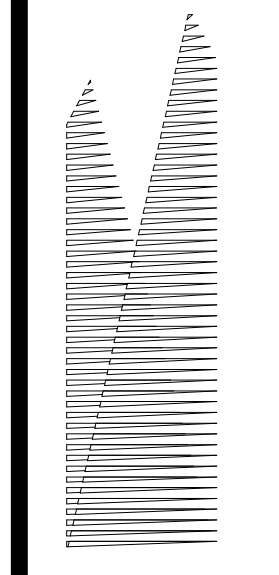
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**S-132.00**



NOTES:  
1. REFER TO S-131.00 FOR SHEET NOTES







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NYC DOB FILING  
L.I.R.R. - PRE-FINAL 100% 12/4/2013  
L.I.R.R. - PRE-FINAL SUBMISSION 11/22/2013  
M&J - PLATFORM SUBMISSION 10/4/2013  
NYC DOB FILING 10/4/2013  
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NYC DOB FILING 6/17/2013  
L.I.R.R. - 60% SUBMISSION 5/29/2013  
L.I.R.R. - 60% - PHASE I FINIS 3/29/2013  
L.I.R.R. - 30% SUBMISSION 2/15/2013  
DOB Description Date

NYC DOB FILING  
L.I.R.R. - PRE-FINAL 100% 12/4/2013  
L.I.R.R. - PRE-FINAL SUBMISSION 11/22/2013  
M&J - PLATFORM SUBMISSION 10/4/2013  
NYC DOB FILING 10/4/2013  
A - DRG PHASE I STRUCTURE UPDATE 9/20/2013  
L.I.R.R. - 90% SUBMISSION 8/09/2013  
NYC DOB FILING 6/17/2013  
L.I.R.R. - 60% SUBMISSION 5/29/2013  
L.I.R.R. - 60% - PHASE I FINIS 3/29/2013  
L.I.R.R. - 30% SUBMISSION 2/15/2013  
DOB Description Date

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M&J - PLATFORM SUBMISSION 10/4/2013  
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DOB Description Date

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DOB Description Date

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NYC DOB FILING  
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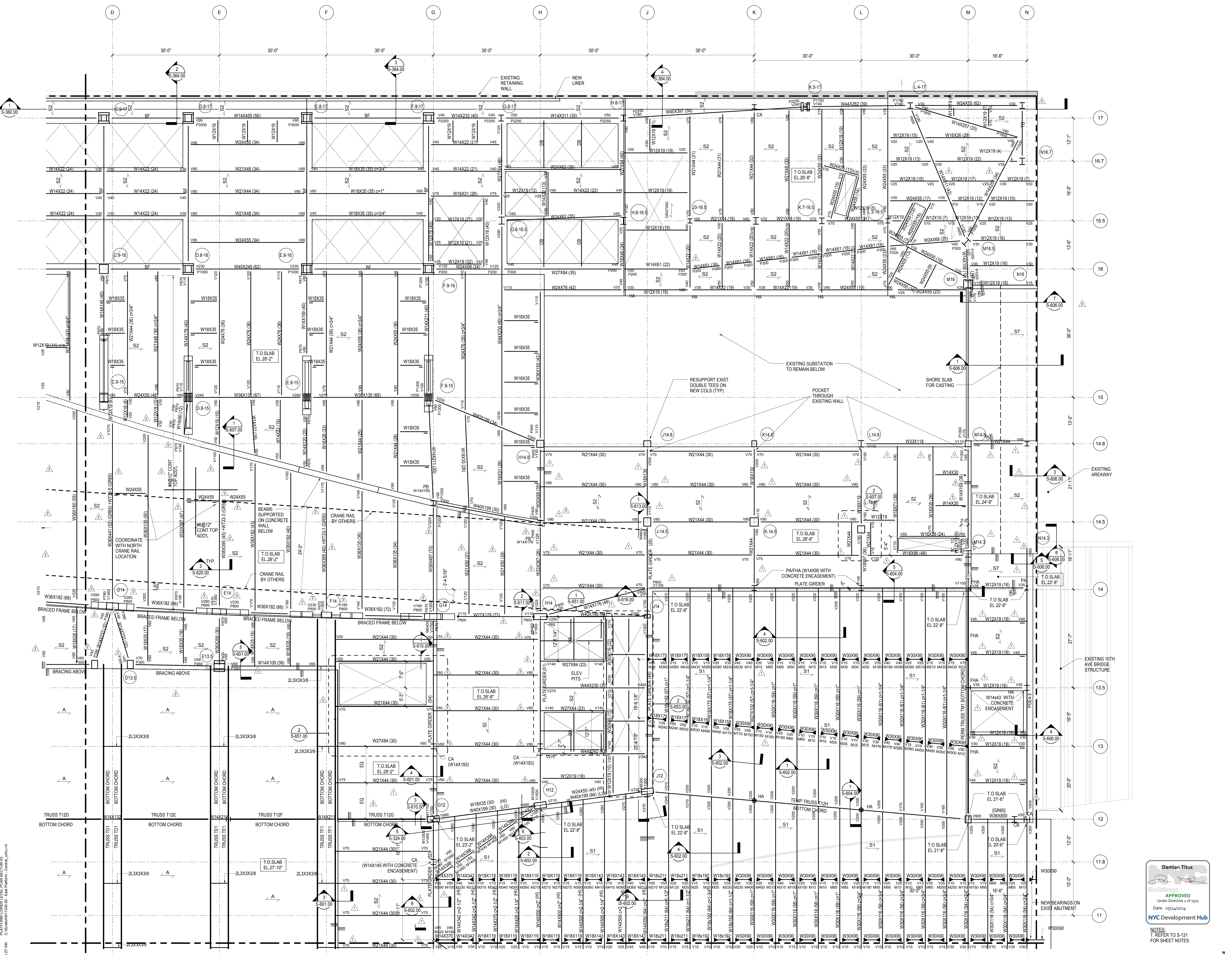
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DOB Description Date

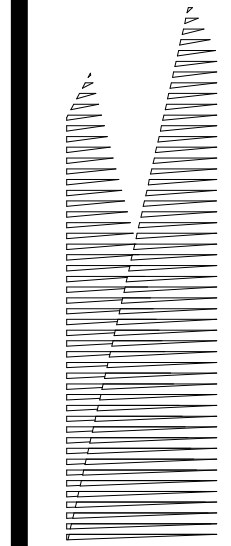


NOTES  
1. REFER TO S-131.00 FOR SHEET NOTES

Damian Titus  
Buildings  
APPROVED  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub

Date: 12/14/12  
Project No: N1330.00  
Drawing Title: HYE-PL-S-133.00  
Platform Lower Level Plan Sector 03  
Date: 05/14/2014  
NYC Development Hub  
SHEET 24 OF 201





Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Owned Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

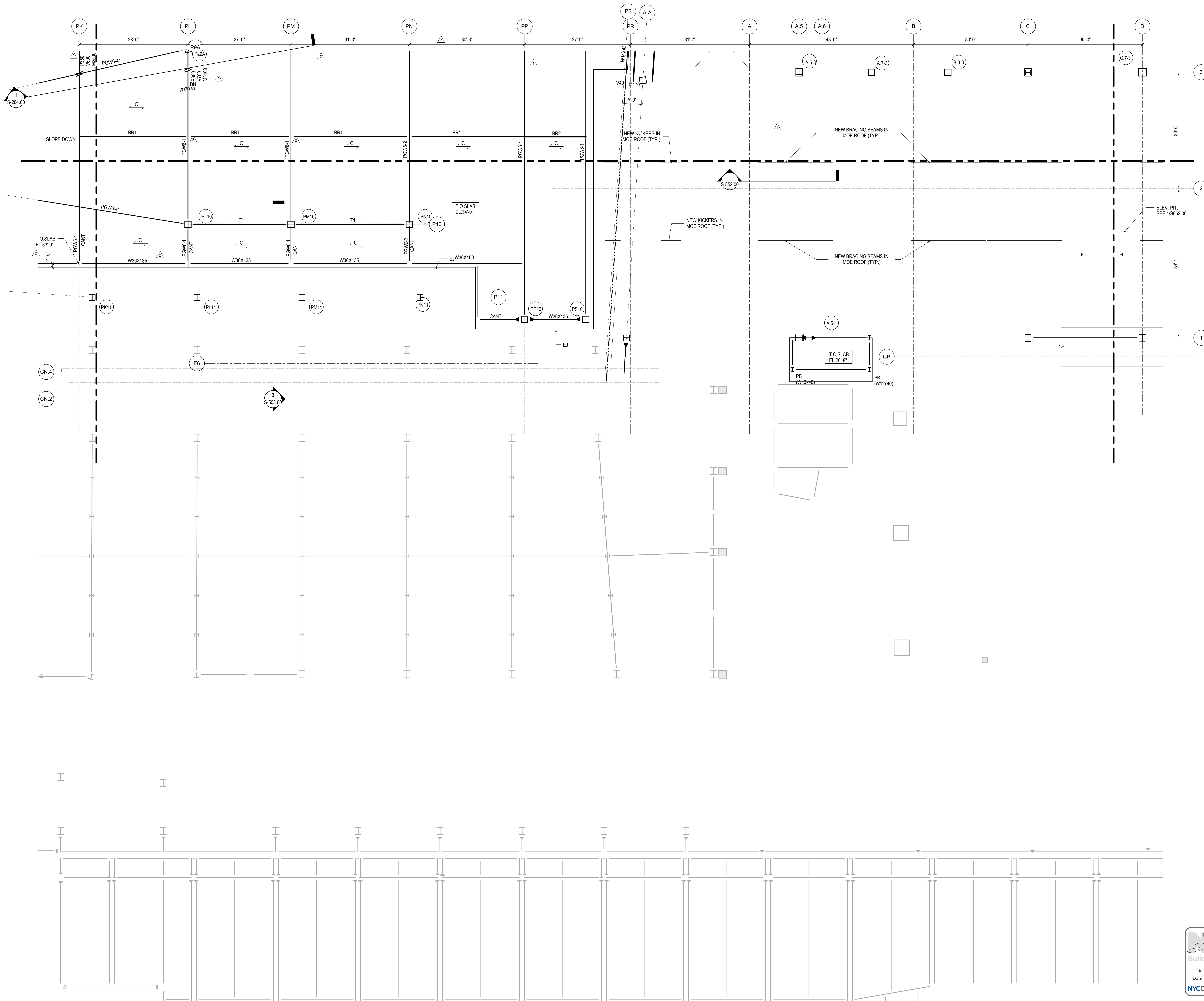
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

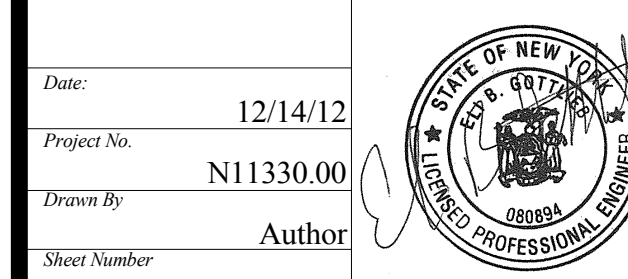
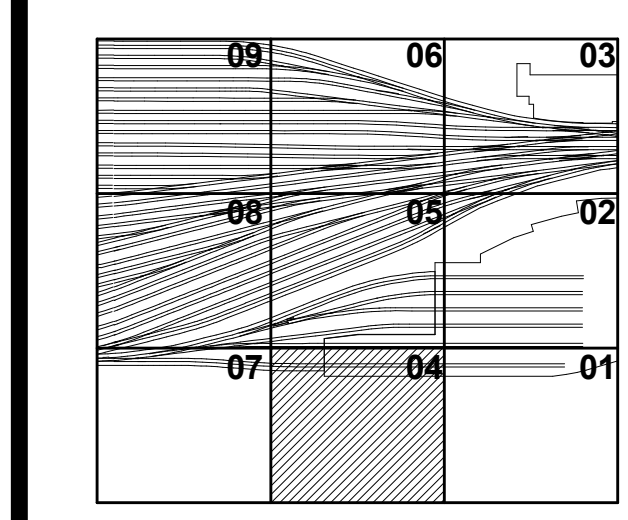
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Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



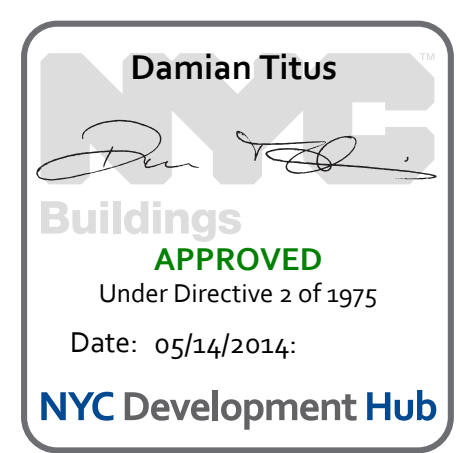
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Δ - DI-01 PHASE I STRUCTURE UPDATE	9/20/2013
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NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description Date

Fig. Plus



Date: 12/14/12  
Project No: N11330.00  
Author: Author  
Minor Number:  
**HYE - PL - S-134.00**  
Drawing Title:  
**PLATFORM LOWER LEVEL PLAN SECTOR 04**

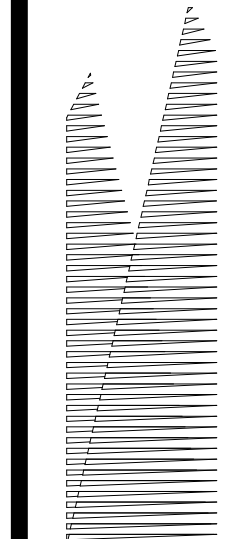
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NOTES:  
1. REFER TO S-131.00 FOR SHEET NOTES

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Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, NY 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thomson Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

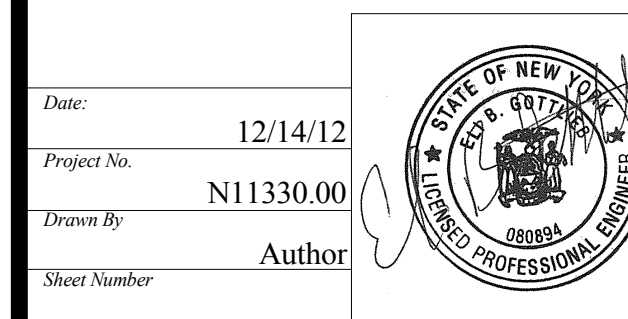
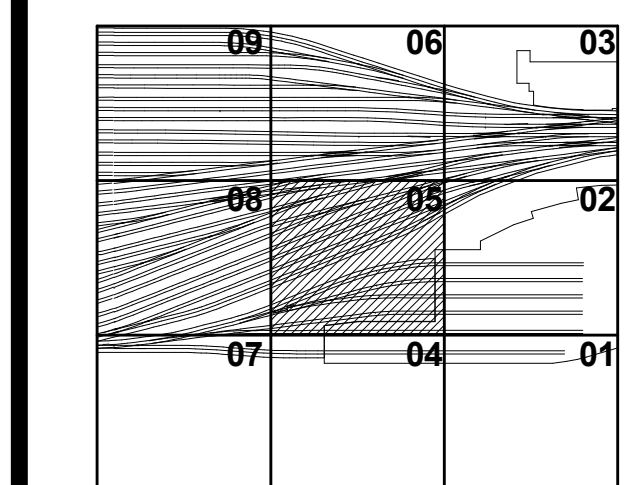
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Elevators, Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

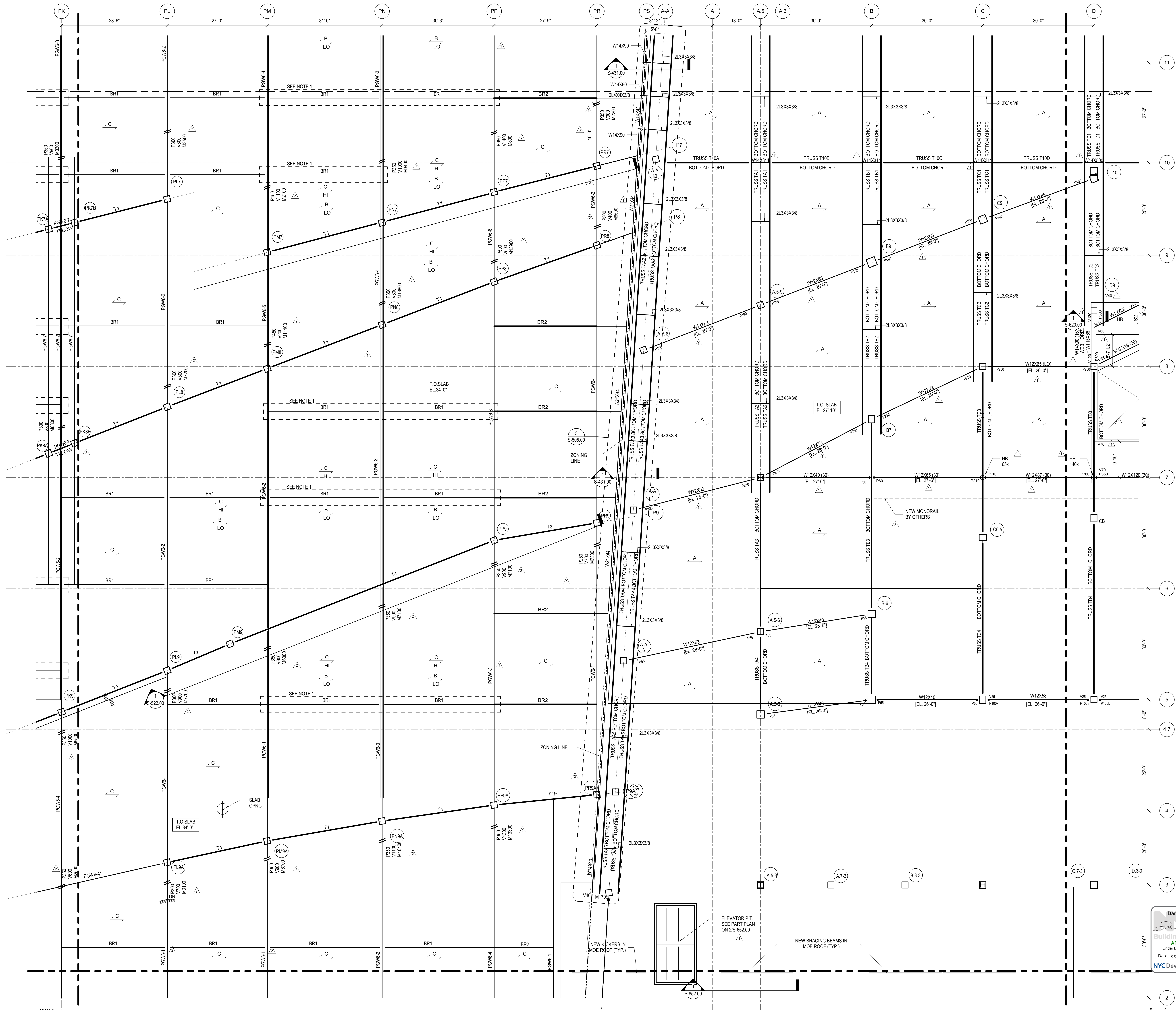
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LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. No.



Project No. 12/14/12  
N11330.00  
Author  
HYE-PL-S-135.00  
Platform Lower Level Plan Sector 05

Approved Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub



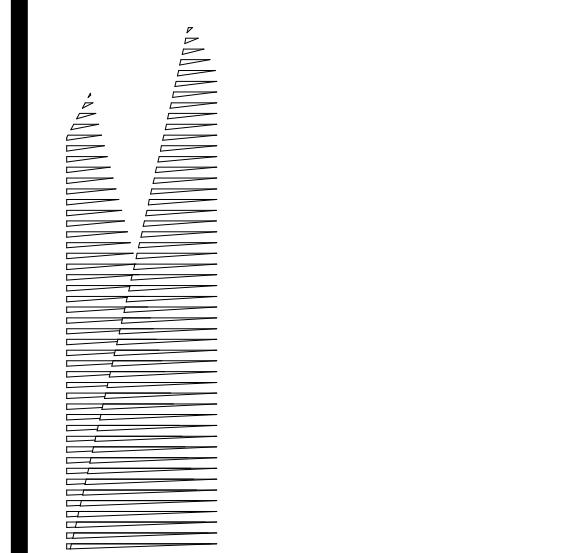
NOTES  
1. REFER TO S-131.00 FOR SHEET NOTES

**Damian Titus**  
Professional Engineer  
Approved Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub



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Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Contractor  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

Architect  
Kohn Pedersen Fox Associates PC  
11 Architects & Planning Consultants  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

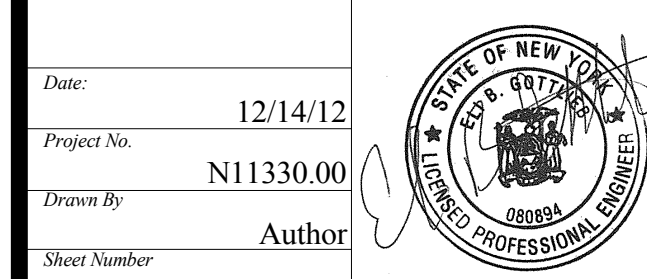
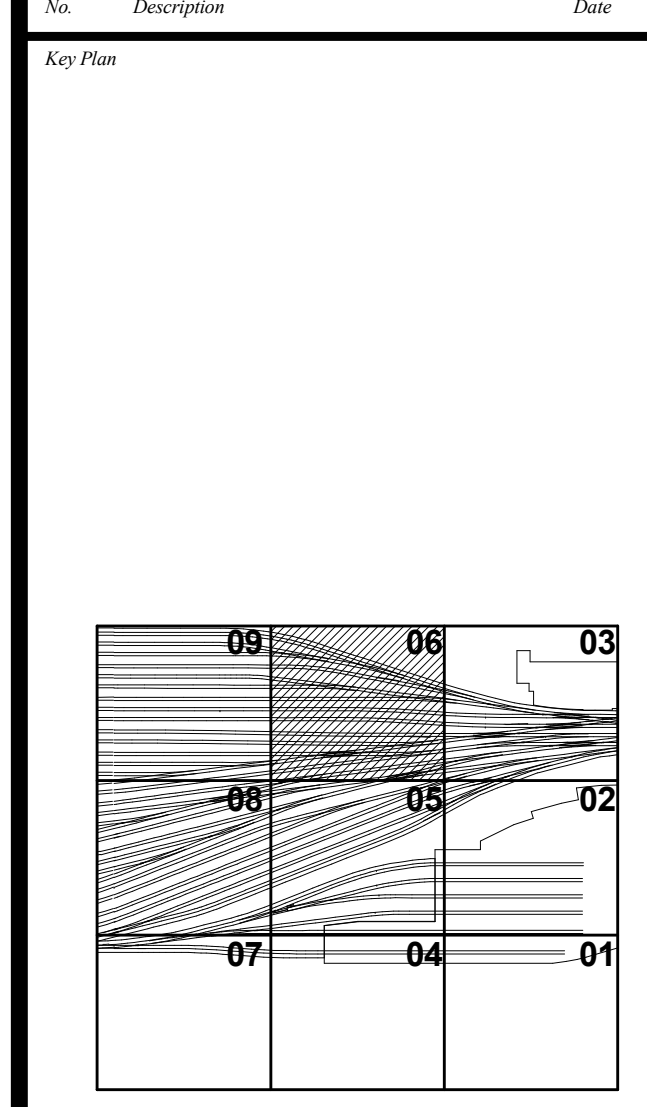
Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10017  
Tel: 917.661.7800 Fax: 718.661.7801

Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Fishman Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

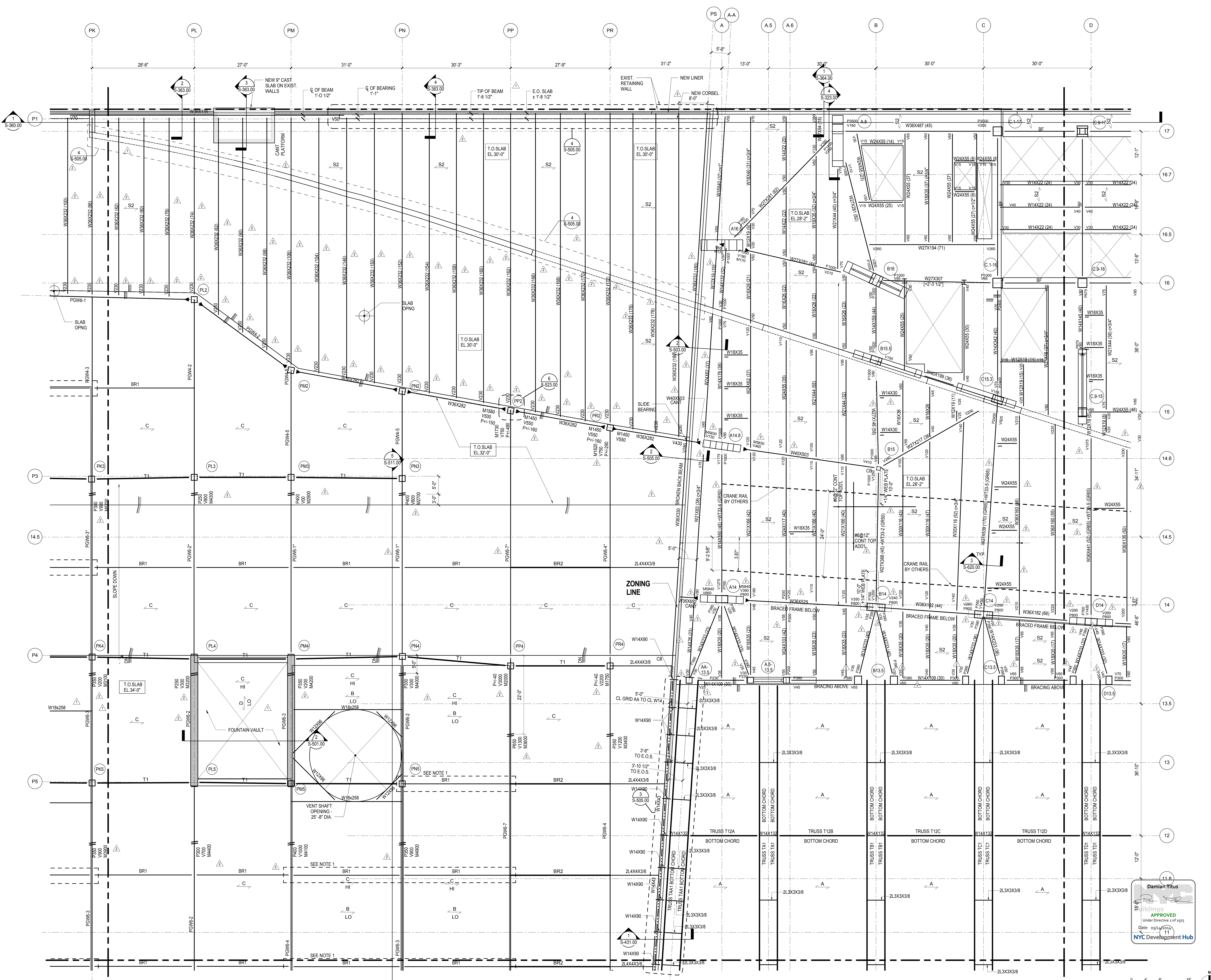
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Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

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NYC DOB FILING	1/11/2013



**HYE-PL-S-136.00**  
**PLATFORM LOWER LEVEL PLAN SECTOR 06**



NOTES:  
1. REFER TO S-131.00 FOR SHEET NOTES

**Damian Titus**  
APPROVED  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub





**HUDSON YARDS PLATFORM**

Address  
530 WEST 33RD STREET  
NEW YORK, NY

Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Owned Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510  
Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10017  
Tel: 917.661.7800 Fax: 718.661.7801

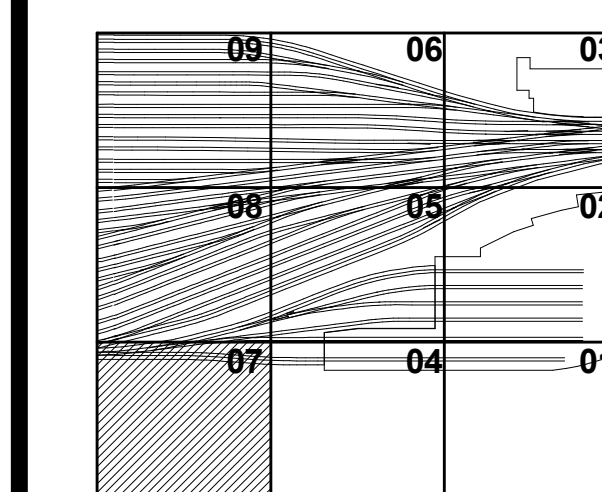
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security,  
Personnel Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
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Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

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LIRR - 60% - PHASE I FDNS	3/29/2013
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Rev	Description

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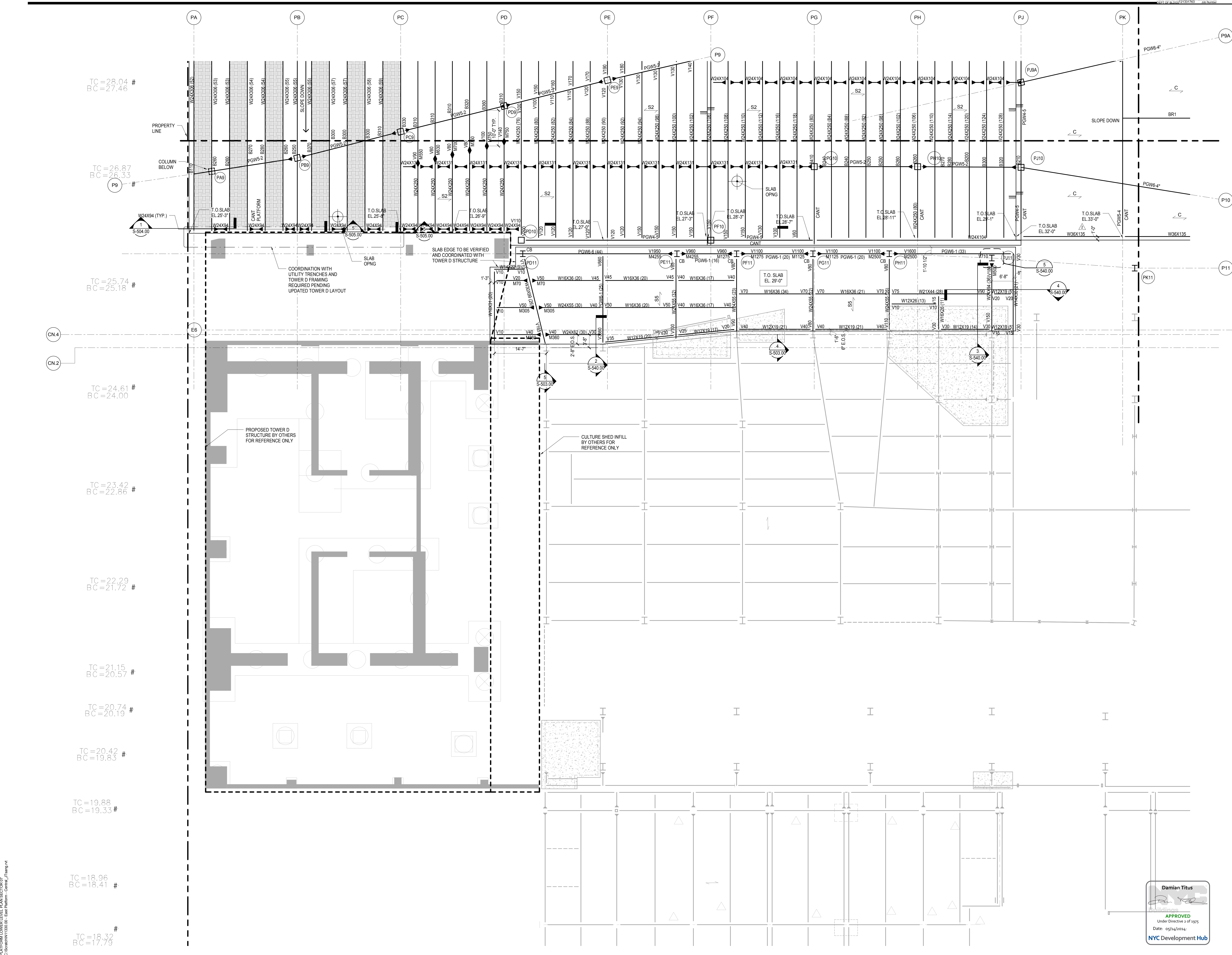
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07

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**S-137.00**

SHEET 28 OF 201

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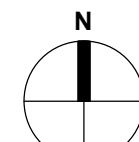
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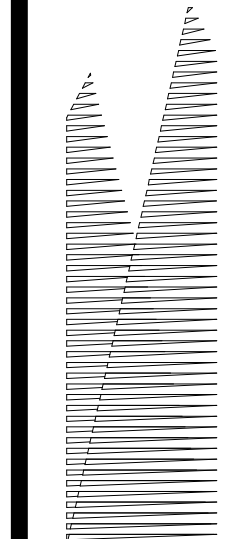
NOTES:  
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APPROVED  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub



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Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Overland Properties Group  
520 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

Architect  
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PC Architects & Planning Consultants  
11 West 42nd Street  
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Structural Engineer  
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51 Madison Avenue  
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Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Factors Transportation Group  
100 Broadway  
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Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
645 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

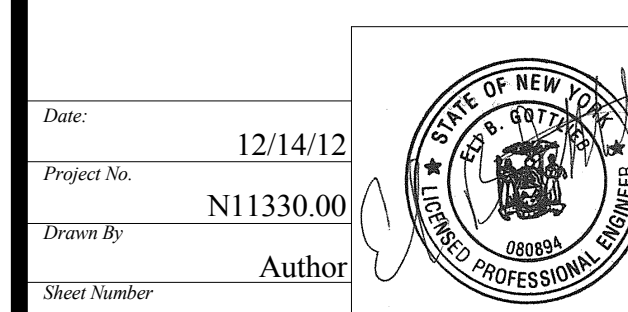
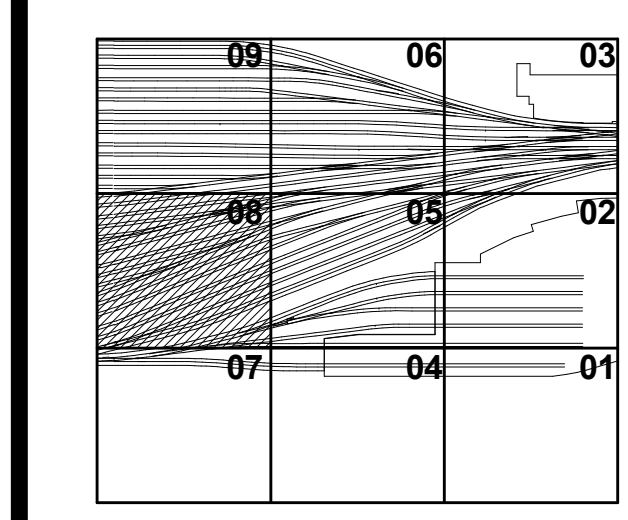
NYC DOB FILING

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&J - PLATFORM SUBMISSION	
Δ - DL2 PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ - DL1 PHASE I STRUCTURE UPDATE	9/20/2013
L.I.R.R. - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
L.I.R.R. - 60% SUBMISSION	5/29/2013
L.I.R.R. - 60% - PHASE I FDNS	3/29/2013
L.I.R.R. - 30% SUBMISSION	2/15/2013
NYC DOB FILING	1/15/2013

NYC DOB FILING

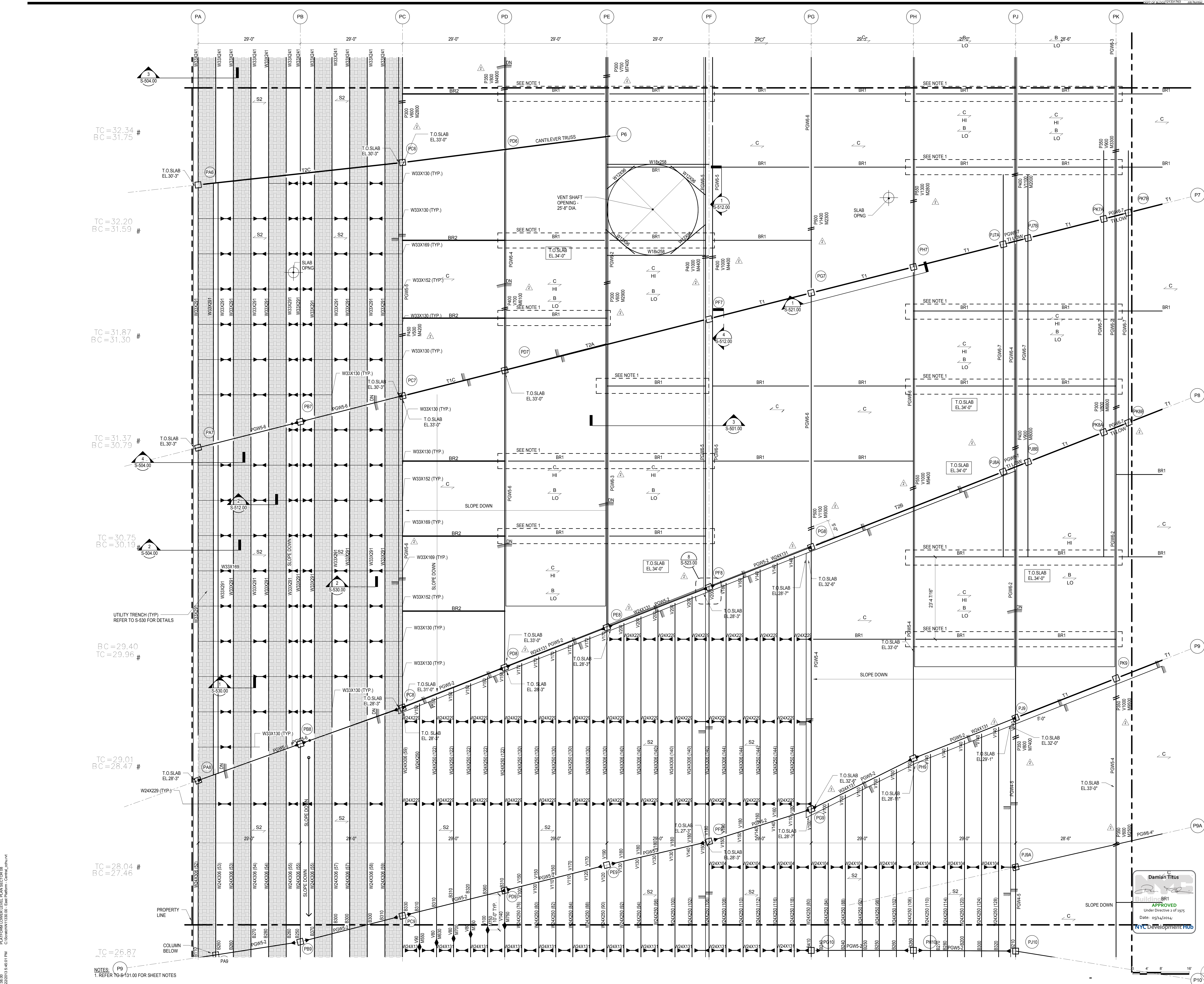
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L.I.R.R. - 60% - PHASE I FDNS	3/29/2013
L.I.R.R. - 30% SUBMISSION	2/15/2013
NYC DOB FILING	1/15/2013

NYC DOB FILING



**HYE - PL - S-138.00**  
Platform Lower Level Plan Sector 08

DATE: 05/14/2014  
DATE: 05/14/2014  
DATE: 05/14/2014



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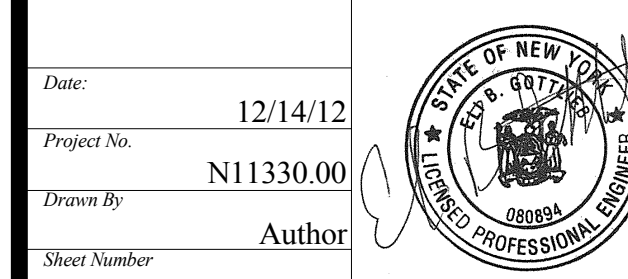
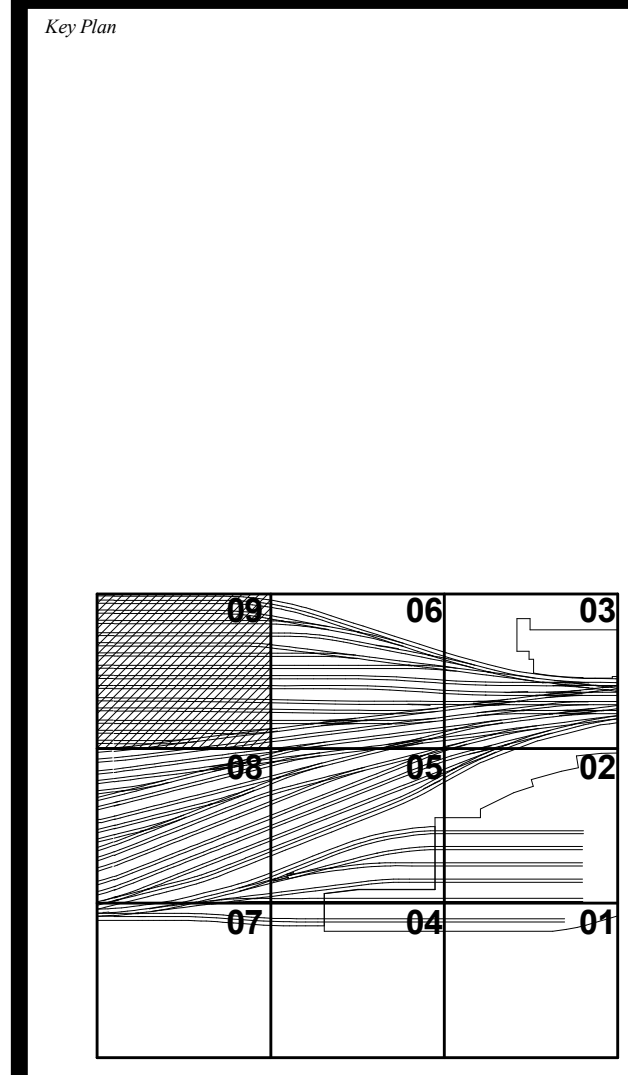
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NOTES  
1. REFER TO S-131.00 FOR SHEET NOTES

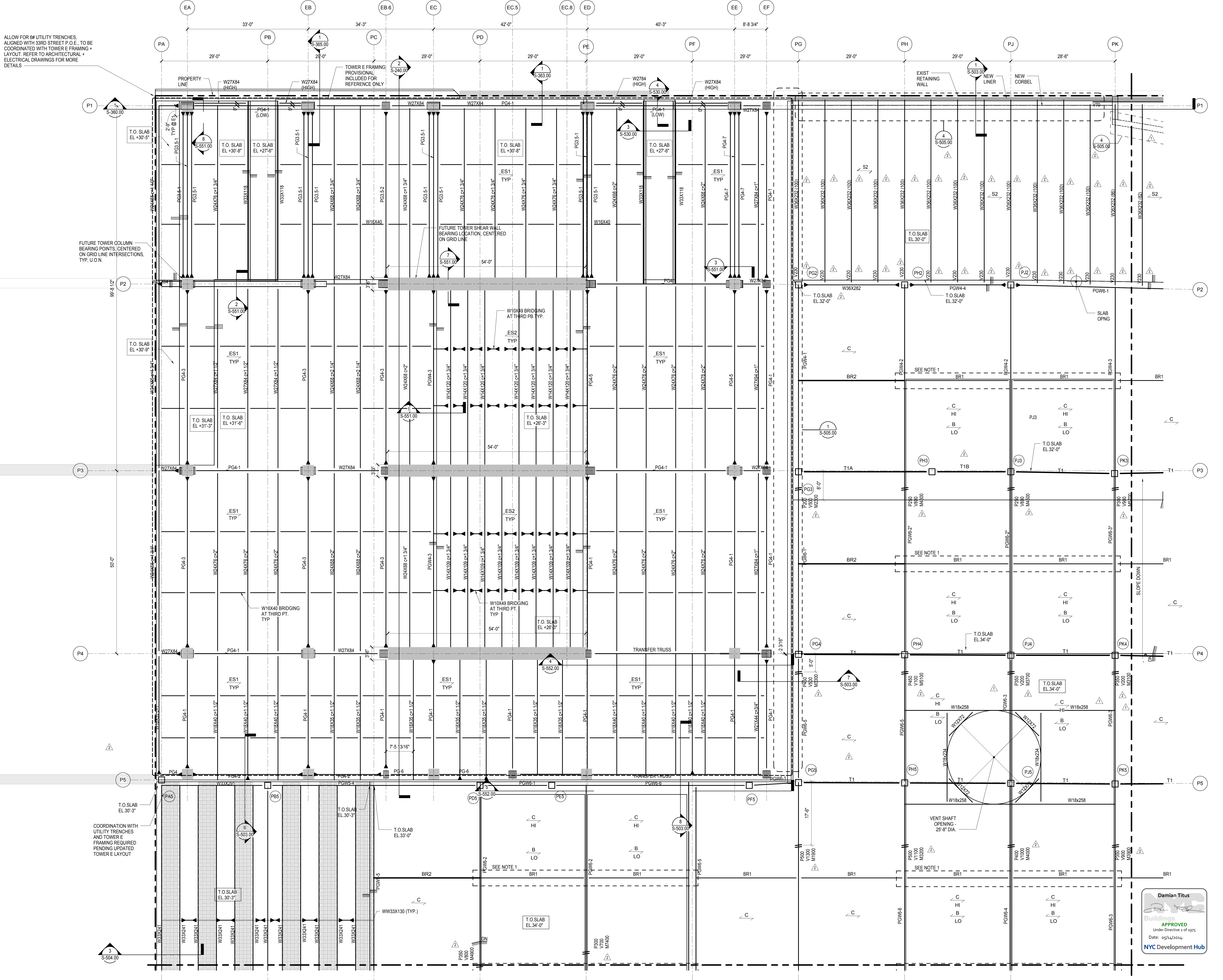
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NYC DOB FILING	12/4/2013
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Δ D1-01 PHASE I STRUCTURE UPDATE	9/20/2013
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NYC DOB FILING	6/17/2013
L.I.R.R. - 60% SUBMISSION	5/29/2013
L.I.R.R. - 60% PHASE I FDNS	3/29/2013
L.I.R.R. - 30% SUBMISSION	2/15/2013
NYC Description	Site



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HYE - PL - S-139.00  
Platform Lower Level Plan Sector 09



ALLOW FOR 6\"/>

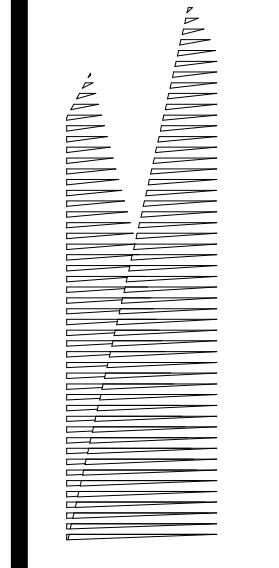
FUTURE TOWER COLUMN BEARING POINTS CENTERED ON GRID LINE INTERSECTIONS, TYP. U.O.N.

COORDINATION WITH UTILITY TRENCHES AND TOWER E FRAMING REQUIRED PENDING UPDATED TOWER E LAYOUT

NOTES:  
1. REFER TO S-131.00 FOR SHEET NOTES







Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Overland Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

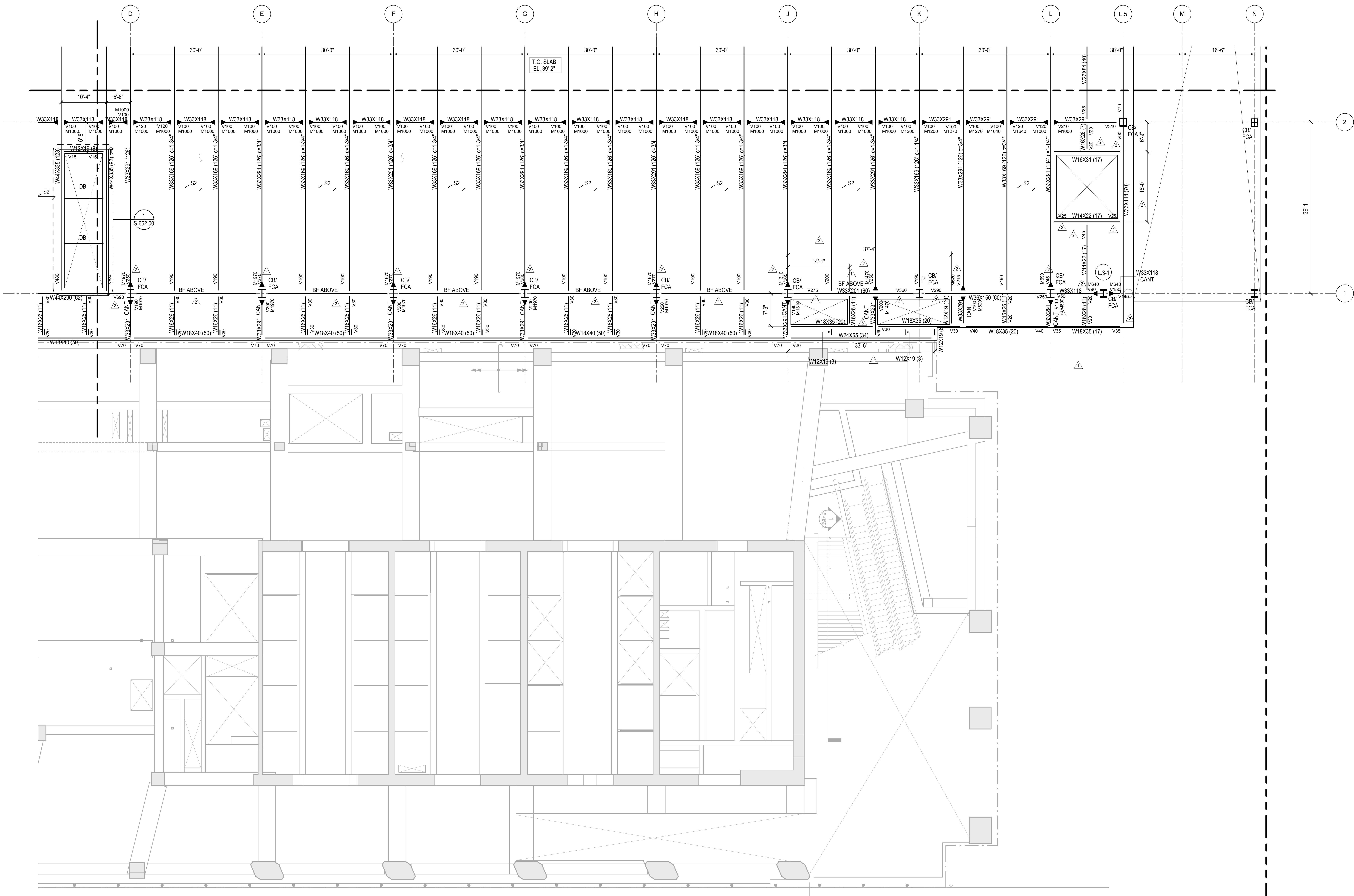
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, NY 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10017  
Tel: 917.661.7800 Fax: 718.661.7801

Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

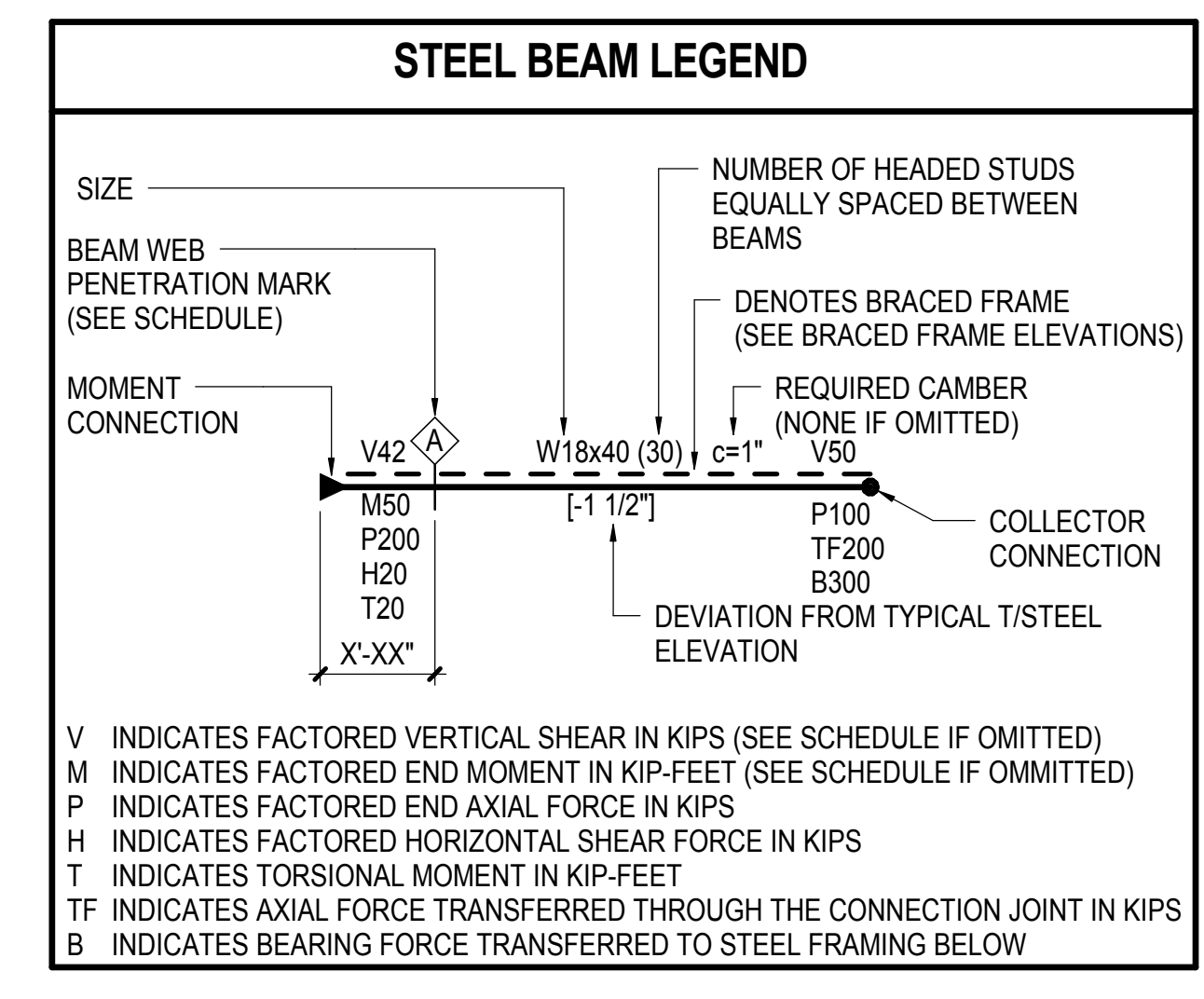
LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



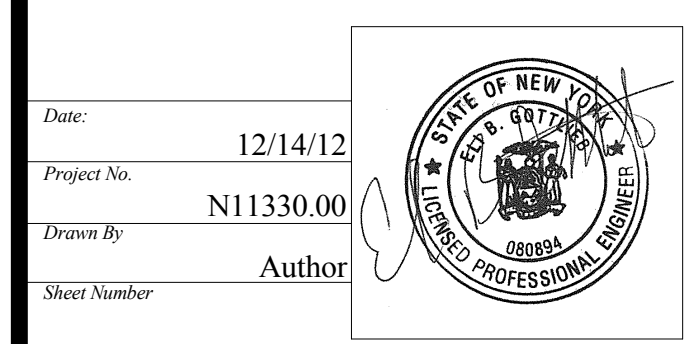
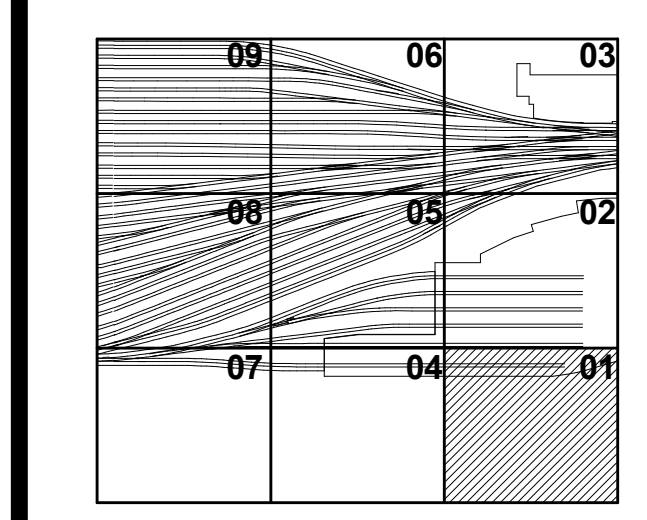
- SHEET NOTES:**
- T/STRUCTURAL SLAB EL+ UON THIS:  
X - INDICATES CHANGE IN T/STRUCTURAL SLAB ELEVATION.
  - T/STEEL EL UON
  - ← INDICATES DECK SPAN DIRECTION. SEE SCHEDULE ON S-003.00
  - FOR ADDITIONAL INFORMATION REFER TO THE FOLLOWING DRAWINGS:  
DRAWING LISTS, GENERAL NOTES, AND LOADING DIAGRAMS S0 SERIES DRAWINGS  
TYPICAL FOUNDATION DETAILS S3 SERIES DRAWINGS  
STEEL COLUMN SCHEDULES S4 SERIES DRAWINGS  
STEEL TYPICAL DETAILS S7 SERIES DRAWINGS

- 5. SYMBOLS:**
- INDICATES MOMENT CONNECTION
  - INDICATES LATERAL BRACING.
  - INDICATES FULL HEIGHT FITTED STIFFENER CONNECTION.
  - INDICATES SLOPE IN TOP OF SLAB
  - INDICATES SPLICE LOCATIONS. SEE S-512.00 FOR DETAILS
  - INDICATES LOCATION OF SLAB TRENCHES. SEE S-341.00 FOR DETAILS
  - INDICATES SLAB OPENING FOR DRAINAGE. TYPICALLY 2'-0". FINAL POSITION BETWEEN BEAMS TO BE COORDINATED WITH ARCHITECT.

- 6. NOTATIONS:**
- CA/CB INDICATES COLUMN ABOVE/BELOW. COMPRESSION AXIAL FORCE IN COLUMN INDICATED WHERE APPLICABLE.
  - PA/PB INDICATES POST ABOVE / BELOW
  - DB INDICATES HSS8X4X3/8 ELEVATOR DIVIDER BEAM (NOT FIREPROOFED)
  - HA/HB INDICATES HANGER ABOVE/BELOW. TENSION AXIAL FORCE IN HANGER BELOW INDICATED WHERE APPLICABLE
  - MF INDICATES LATERAL MOMENT FRAME. SEE MOMENT FRAME ELEVATIONS FOR BEAM INFORMATION AND CONNECTION FORCES
  - PG INDICATES PLATE GIRDER TYPE. SEE S-511.00 FOR SCHEDULE AND DETAILS
  - TC INDICATES TORSIONAL CONNECTION FOR STAIR
  - TR INDICATES COLUMN FROM ABOVE TRANSFERS. COMPRESSION AXIAL FORCE IN COLUMN INDICATED WHERE APPLICABLE
  - BF INDICATES BRACED FRAME. SEE ELEVATIONS
  - FCA INDICATES FUTURE COLUMN ABOVE
  - FHA INDICATES FUTURE HANGER ABOVE



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LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description



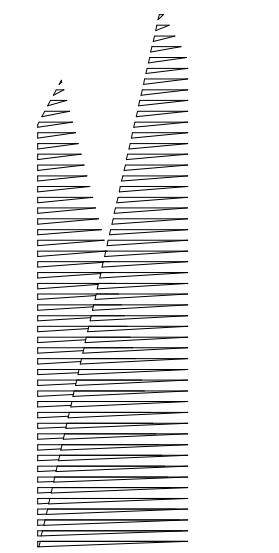
**Damian Titus**  
Buildings  
APPROVED  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub

**HYE - PL - S-141.00**  
Drawing Title  
**LEVEL PLAN UPPER**  
**LEVEL PLAN SECTOR**  
**01**









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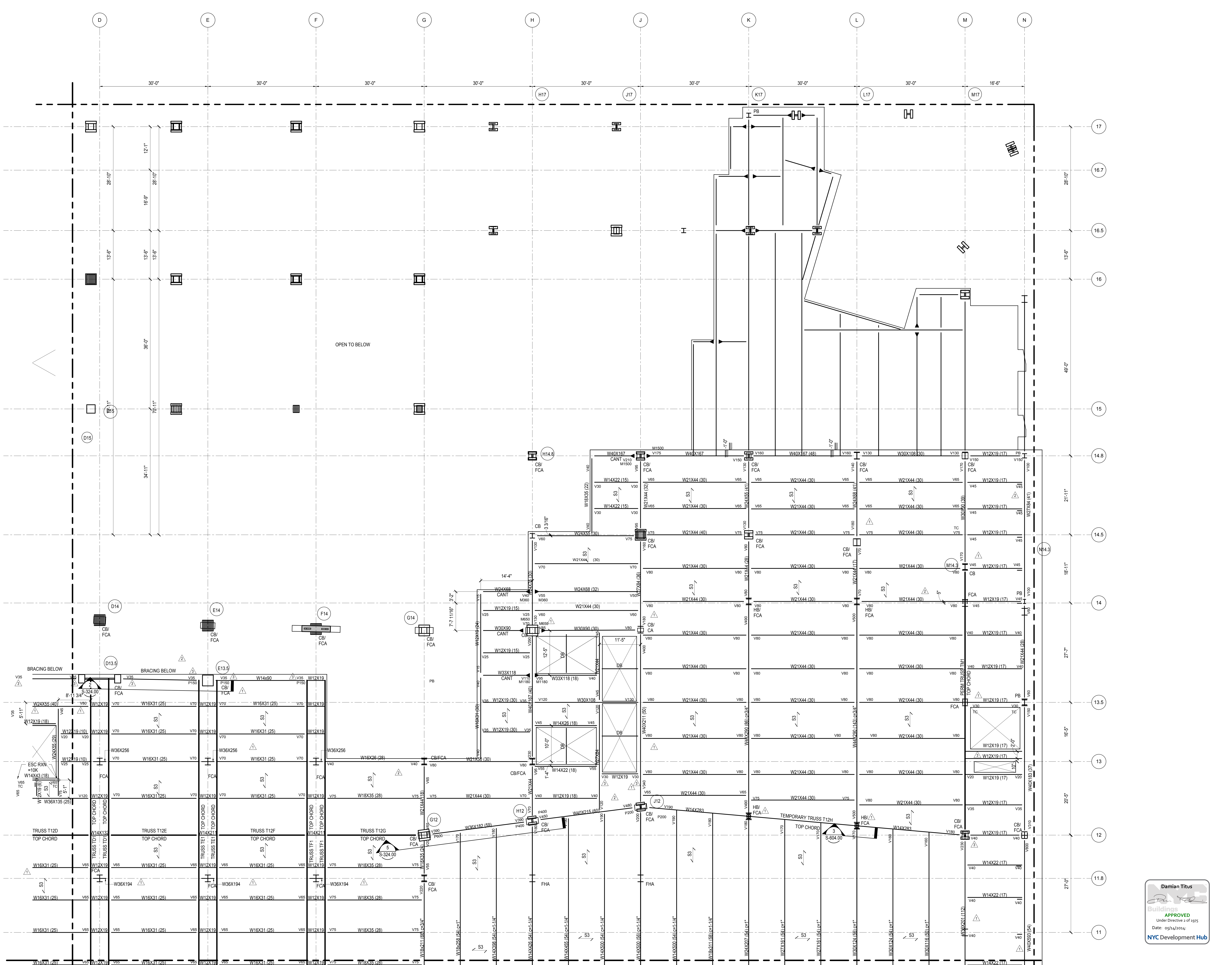
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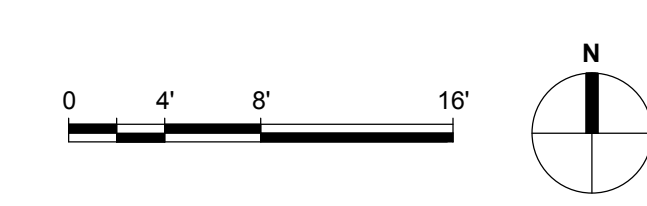
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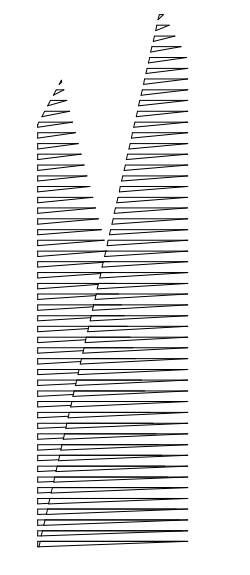


**Damian Titus**  
Buildings  
APPROVED  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub



NOTES  
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New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

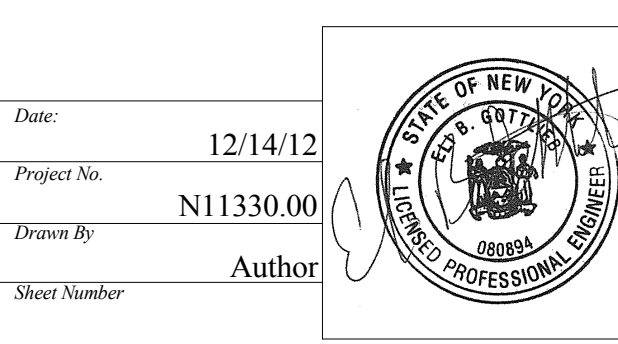
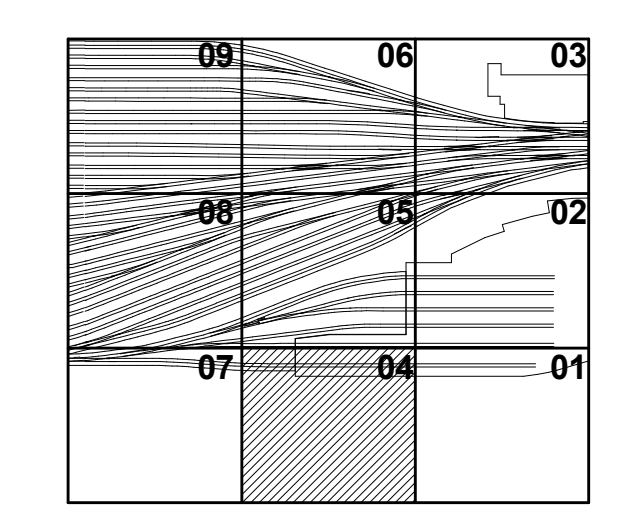
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

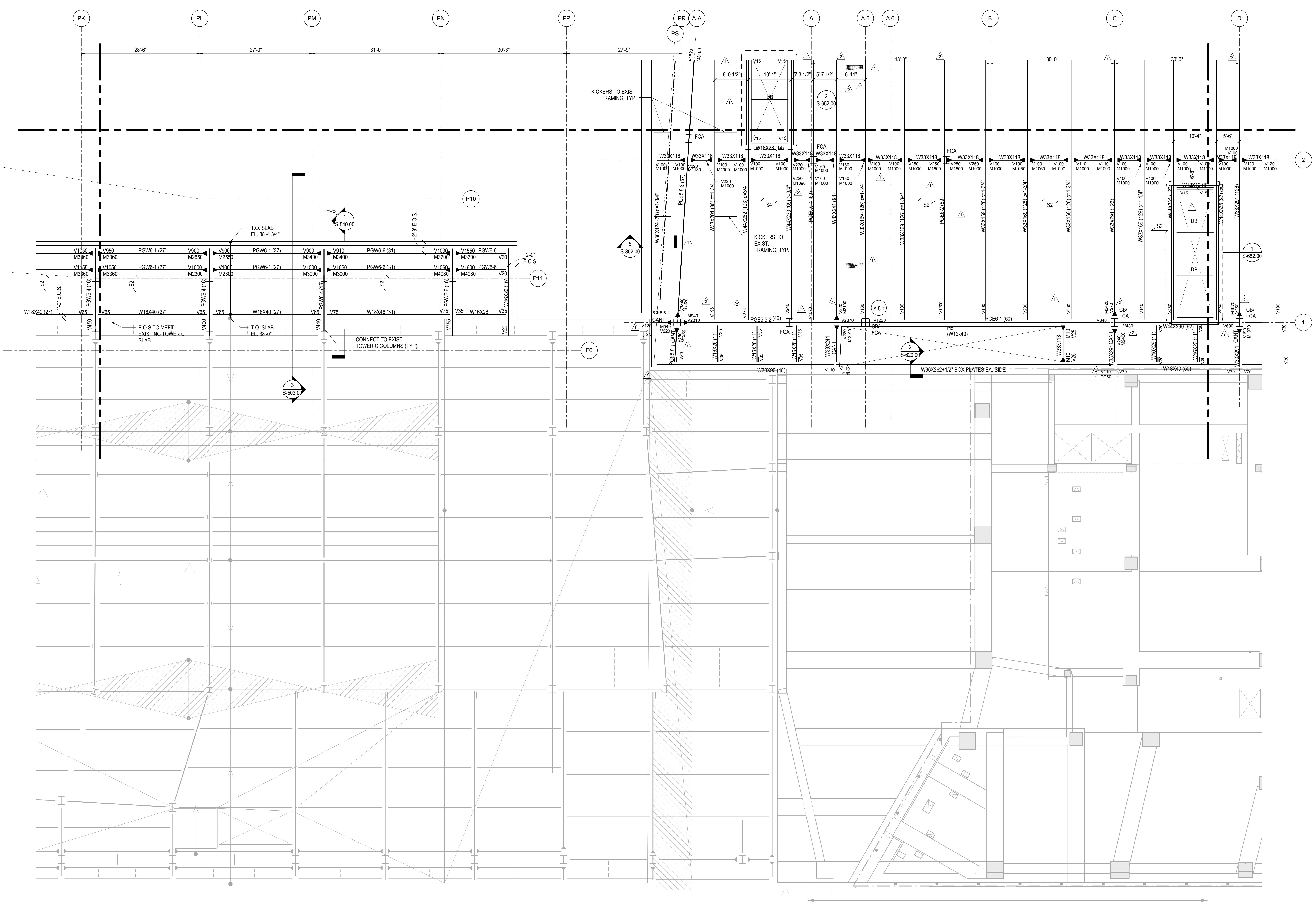
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L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DI-02 PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ - DI-01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev Plot

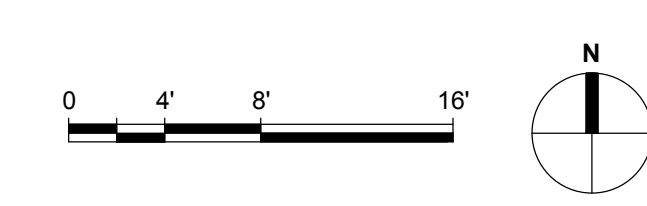
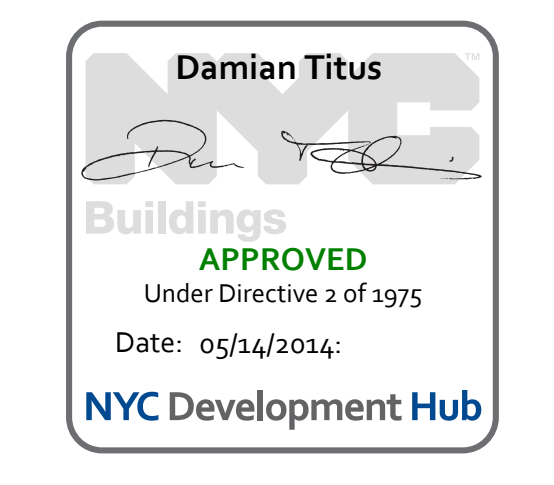


Date: 12/14/12  
Project No: N11330.00  
Drawing Title: HYE - PL - S-144.00  
Platform Upper Level Plan Sector 04

Approved Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub



NOTES:  
1. REFER TO S-141.00 FOR SHEET NOTES



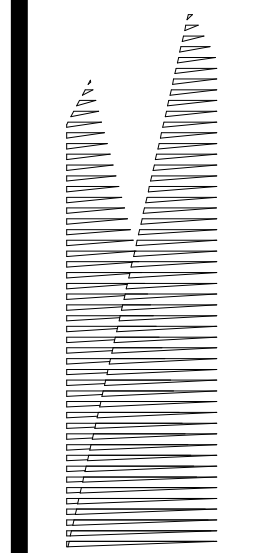






**HUDSON YARDS PLATFORM**

Address  
530 WEST 33RD STREET  
NEW YORK, NY



**Client**  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

**Owner**  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

**Construction Manager**  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

**Architect**  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

**Structural Engineer**  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

**Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security**  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

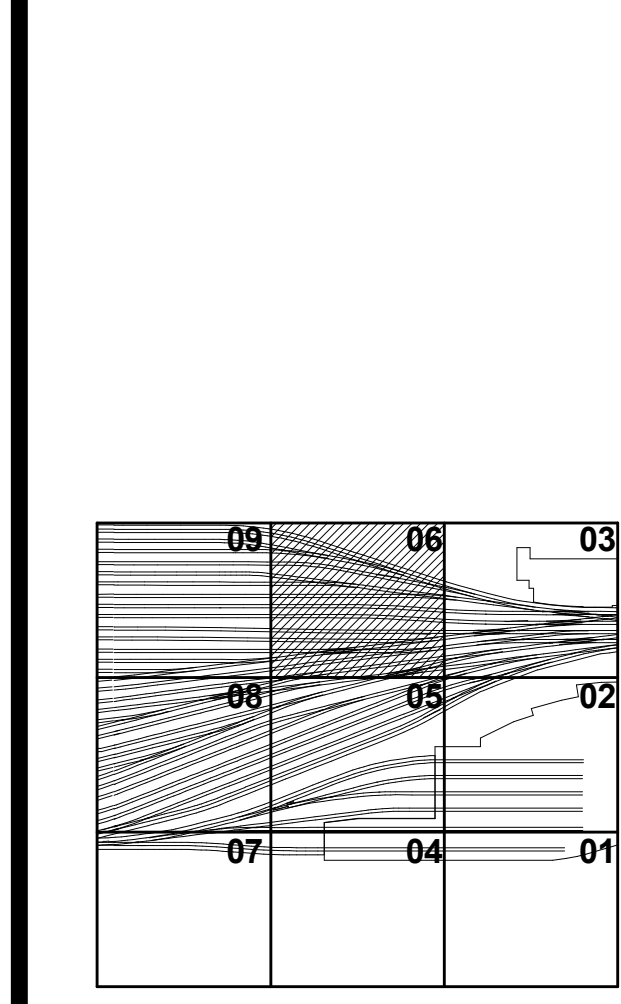
**LIRR Ventilation**  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

**LIRR Substation**  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

NYC DOB FILING	Description	Date
NYC DOB FILING	100% PRE-FINAL	12/4/2013
L.I.R.R. - PRE-FINAL	100% SUBMISSION	11/22/2013
M&T - PLATFORM SUBMISSION		
Δ - DI-02 PHASE I STRUCTURAL UPDATE		11/1/2013
NYC DOB FILING	100% SUBMISSION	10/4/2013
Δ - DI-01 PHASE I STRUCTURE UPDATE		9/20/2013
L.I.R.R. - 90% SUBMISSION		8/09/2013
NYC DOB FILING		6/17/2013
L.I.R.R. - 60% SUBMISSION		5/29/2013
L.I.R.R. - 60% - PHASE I FDNS		3/29/2013
L.I.R.R. - 30% SUBMISSION		2/15/2013

NYC DOB FILING	Description	Date
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L.I.R.R. - PRE-FINAL	100% SUBMISSION	11/22/2013
M&T - PLATFORM SUBMISSION		
Δ - DI-02 PHASE I STRUCTURAL UPDATE		11/1/2013
NYC DOB FILING	100% SUBMISSION	10/4/2013
Δ - DI-01 PHASE I STRUCTURE UPDATE		9/20/2013
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NYC DOB FILING		6/17/2013
L.I.R.R. - 60% SUBMISSION		5/29/2013
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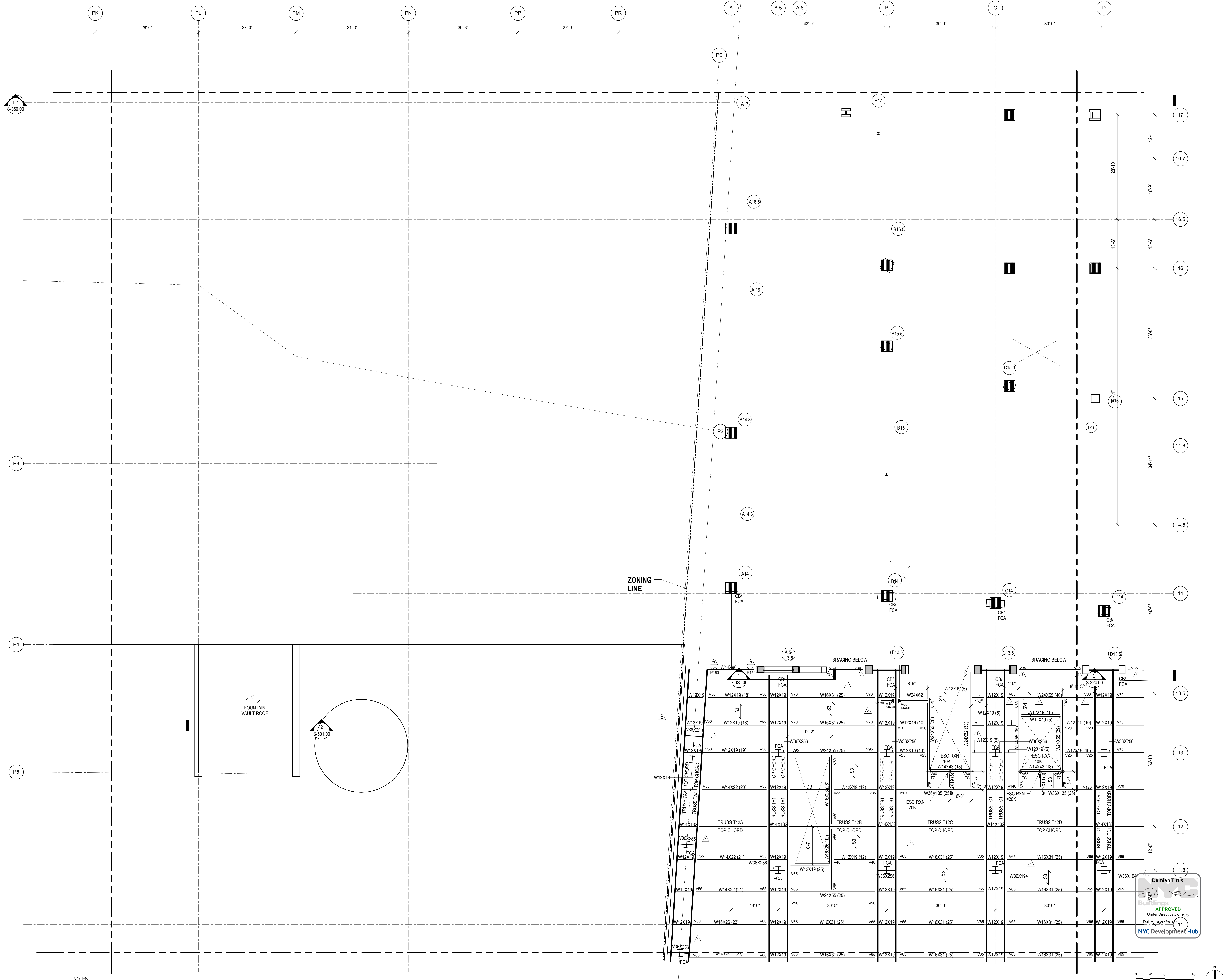
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M&T - PLATFORM SUBMISSION		
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NYC DOB FILING	100% SUBMISSION	10/4/2013
Δ - DI-01 PHASE I STRUCTURE UPDATE		9/20/2013
L.I.R.R. - 90% SUBMISSION		8/09/2013
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L.I.R.R. - 60% SUBMISSION		5/29/2013
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L.I.R.R. - 30% SUBMISSION		2/15/2013



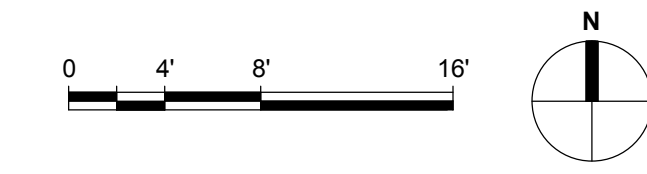
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Project No: N11330.00  
Author: Damian Titus  
M&T Number: Author

**HYE - PL - S-146.00**  
Drawing Title  
**PLATFORM UPPER LEVEL PLAN SECTOR 06**

Drawing Number / B/S/C/D Drawing Number  
**S-146.00**  
SHEET 36 OF 201



NOTES:  
1. REFER TO S-141.00 FOR SHEET NOTES

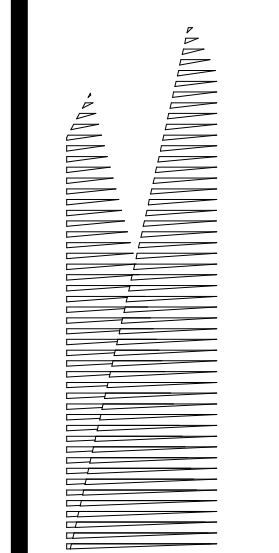


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**HUDSON YARDS  
PLATFORM**

Address  
530 WEST 33RD STREET  
NEW YORK, NY



*Client*  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

*Owner*  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

*Construction Manager*  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

*Architect*  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

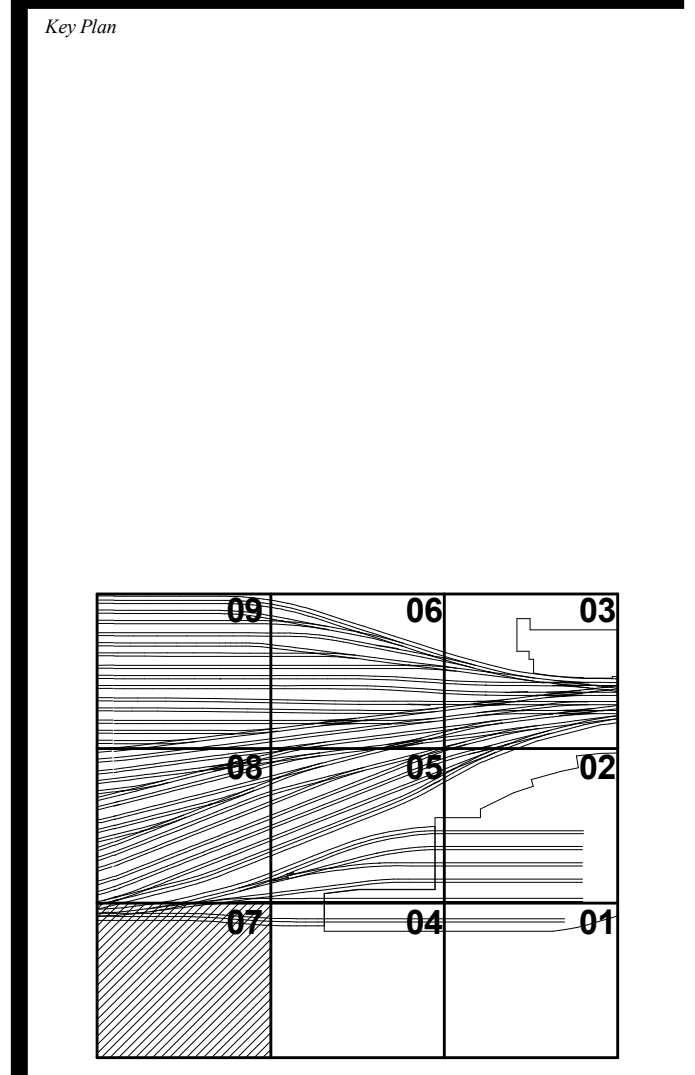
*Structural Engineer*  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

*Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Personnel Transportation Group*  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

*LIRR Ventilation*  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

*LIRR Substation*  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

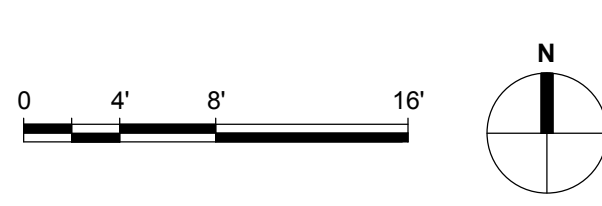
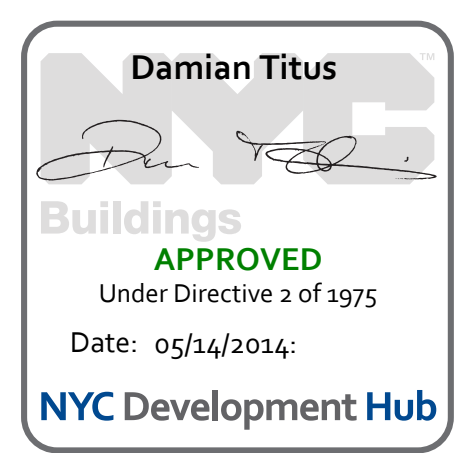
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L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DI-02 PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ - DI-01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description



Date: 12/14/12  
Project No: N11330.00  
Drawn By: Author  
Issue Number: Author

**HYE - PL - S-147.00**  
Drawing Title:  
**PLATFORM UPPER  
LEVEL PLAN SECTOR  
07**

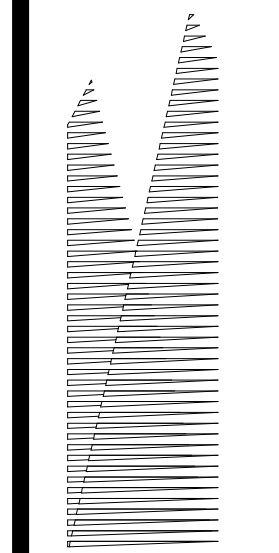
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**S-147.00**  
SHEET 37 OF 201



NOTES:  
1. REFER TO S-141.00 FOR SHEET NOTES

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*Client*  
United Companies  
90 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

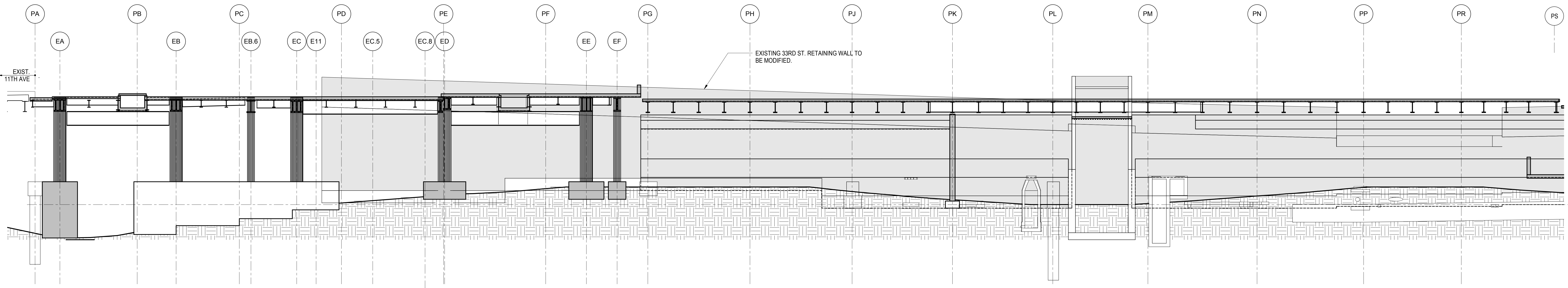
*Construction Manager*  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

*Structural Engineer*  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

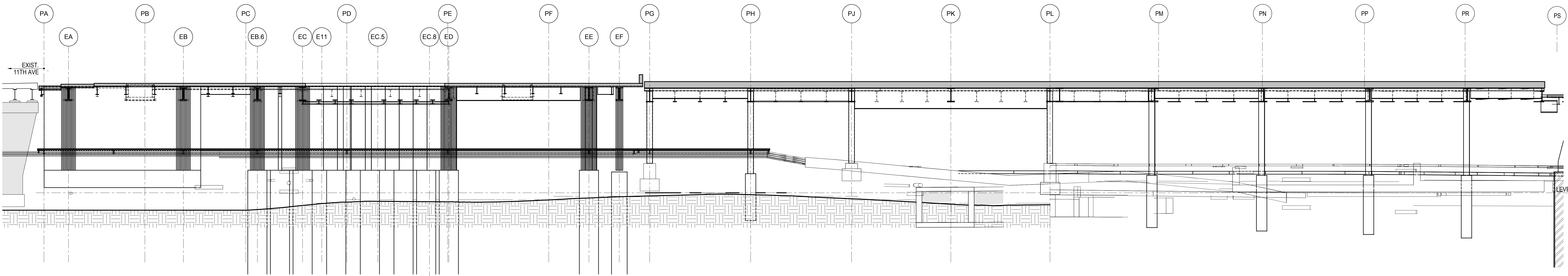
*Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security*  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

*LIRR Ventilation*  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

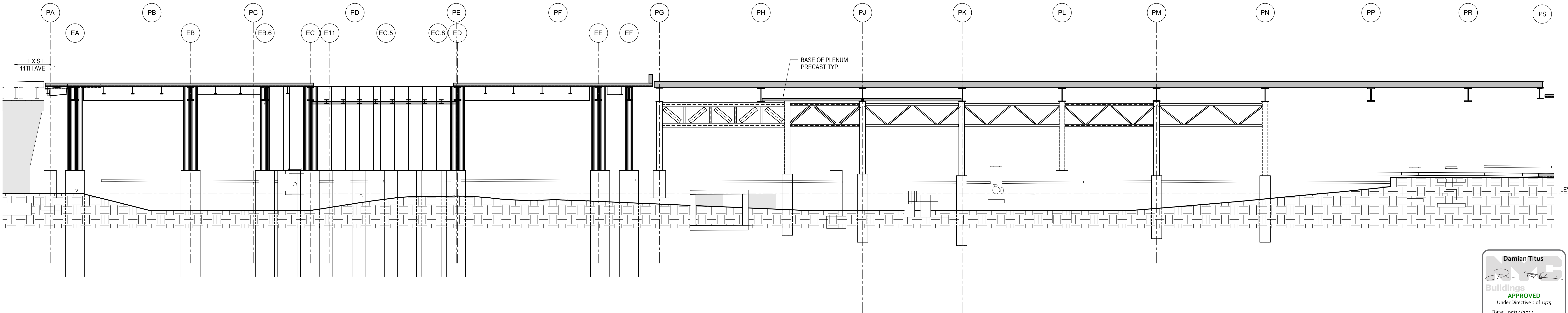
*LIRR Substation*  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



**1 ELEVATION GRID LINE P1**  
3/32" = 1'-0"



**2 ELEVATION GRID LINE P2**  
3/32" = 1'-0"



**3 ELEVATION GRID LINE P3**  
3/32" = 1'-0"

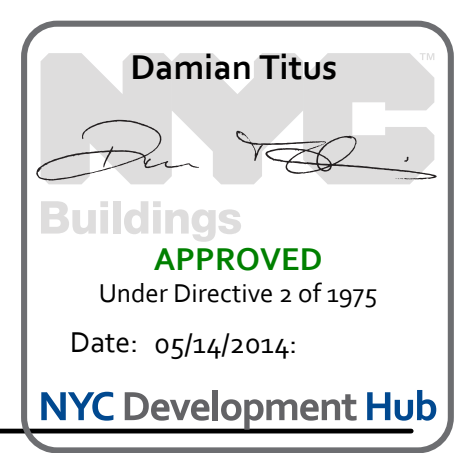
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Δ DLO1 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE 1 FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. Plan

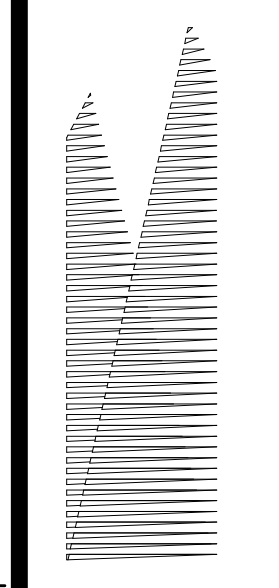
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Project No: N11330.00  
Title: Author  
Sheet Number

**HYE -PL -S-201.00**  
**ELEVATIONS GRIDS P1, P2, P3**

Drawing Number / B/S/C/S Drawing Number  
**S-201.00**







Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Overland Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

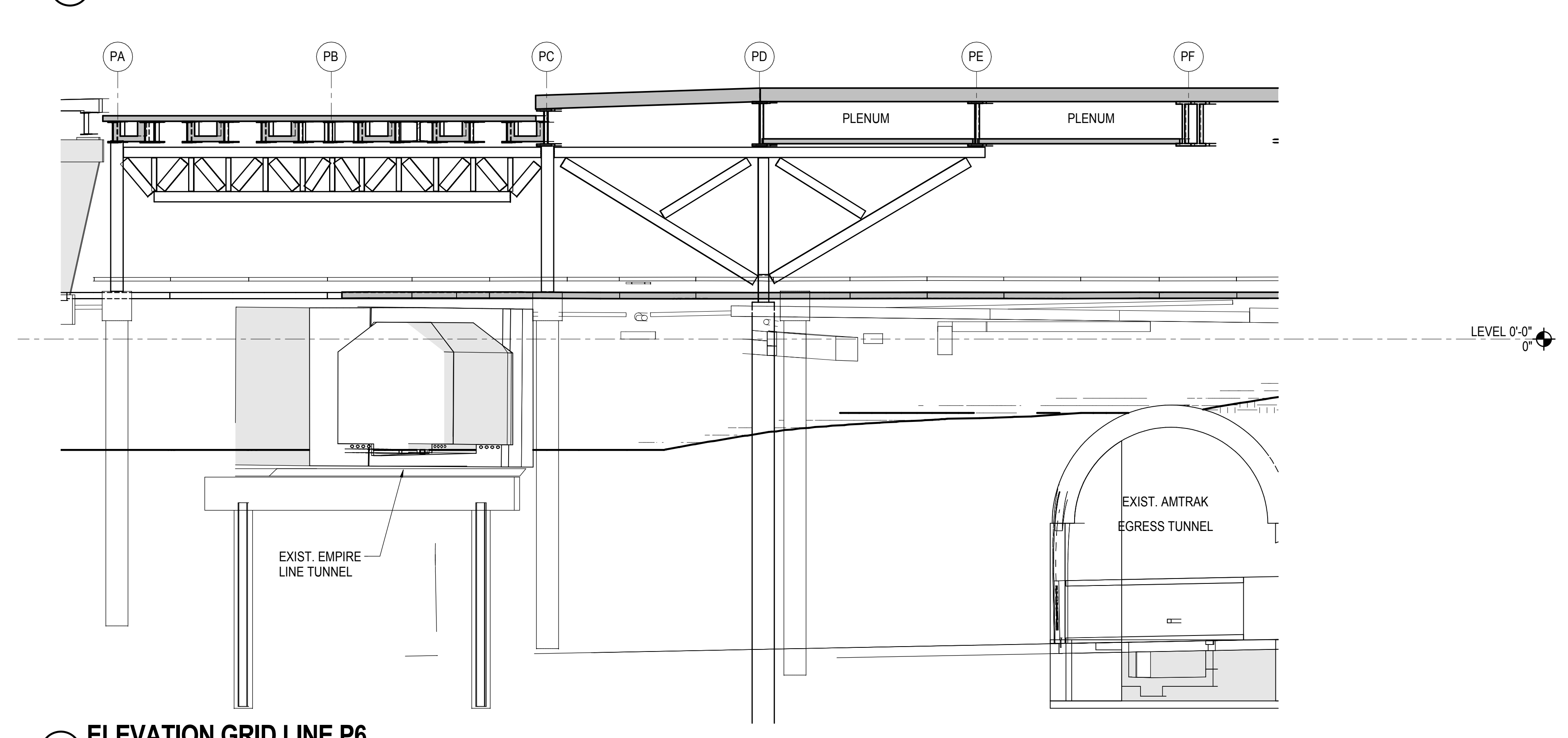
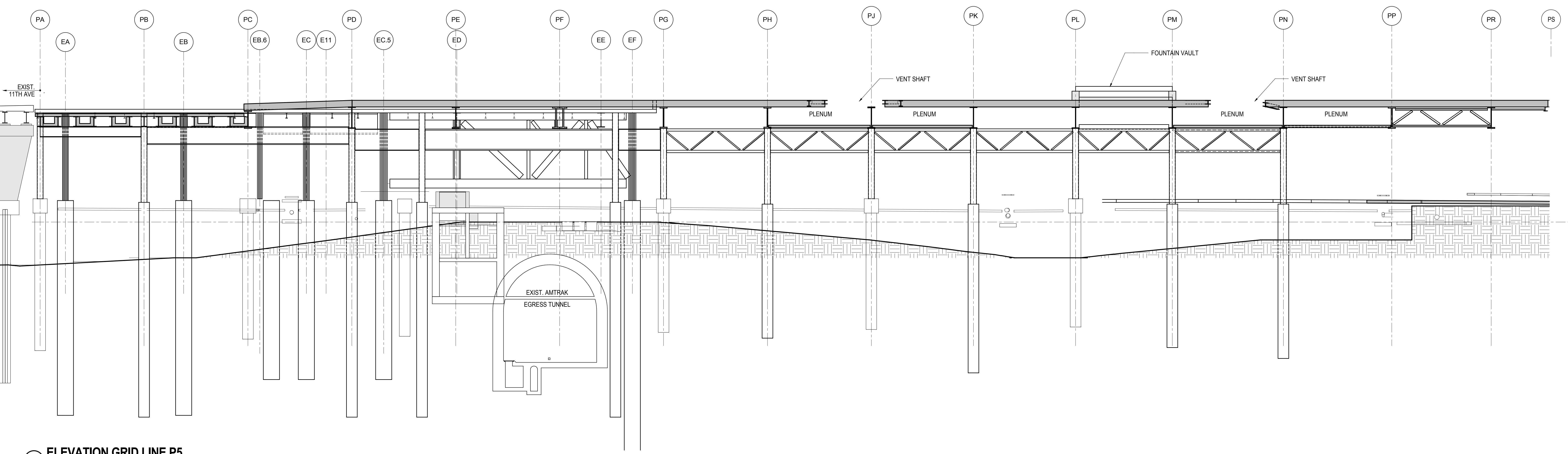
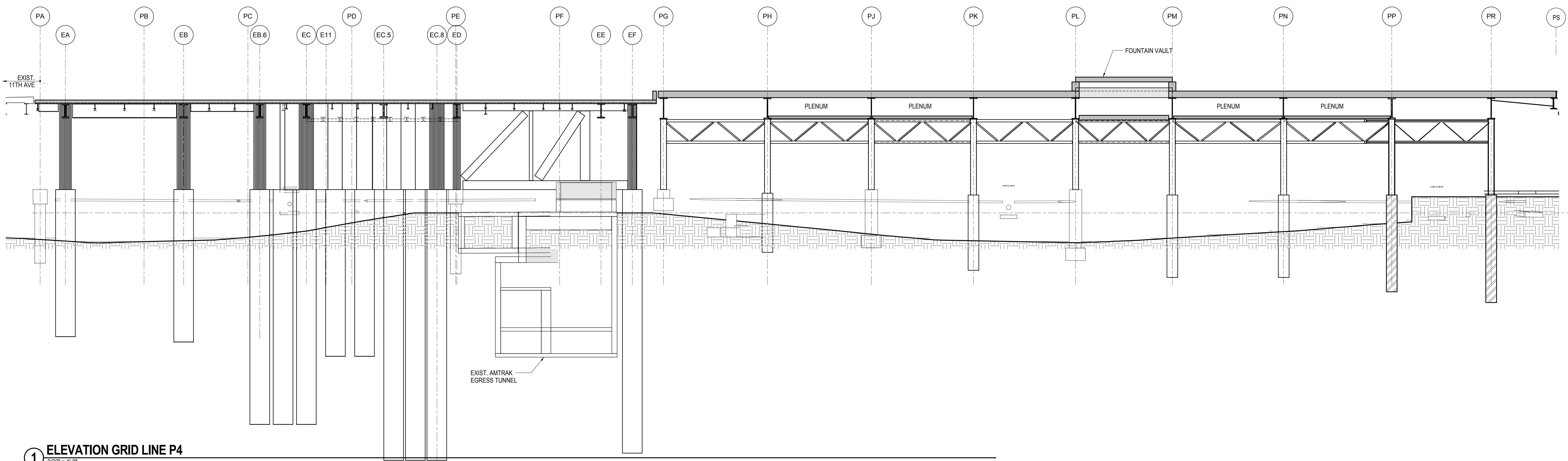
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

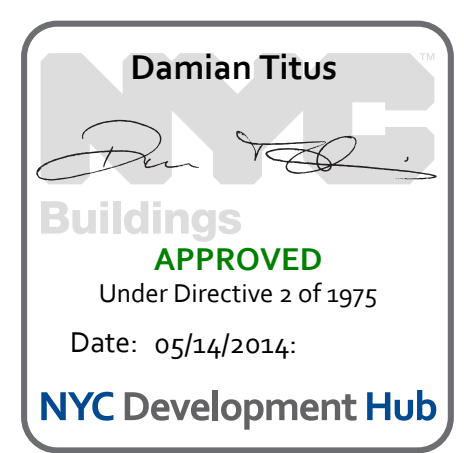
LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DL42 PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ - DL42 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE 1 FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. Plan

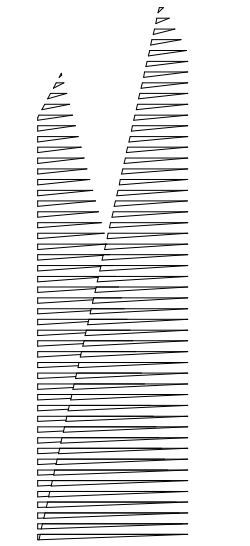


Date: 12/14/2012  
Project No: N11330.00  
Author: Author

**HYE - PL - S-202.00**  
**ELEVATIONS GRIDS P4, P5, P6**

Drawing Number / B/S/C/A/S Drawing Number  
**S-202.00**





*Client*  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

*Construction Manager*  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

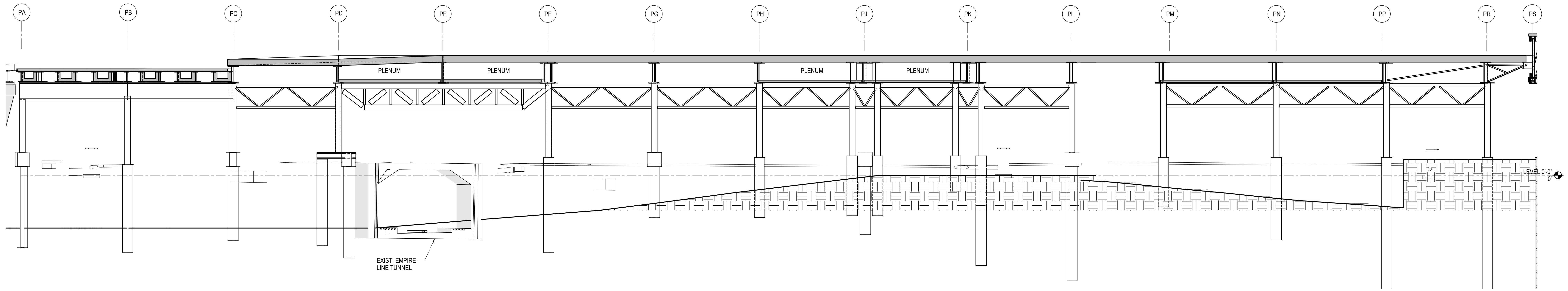
*Architect*  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

*Structural Engineer*  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

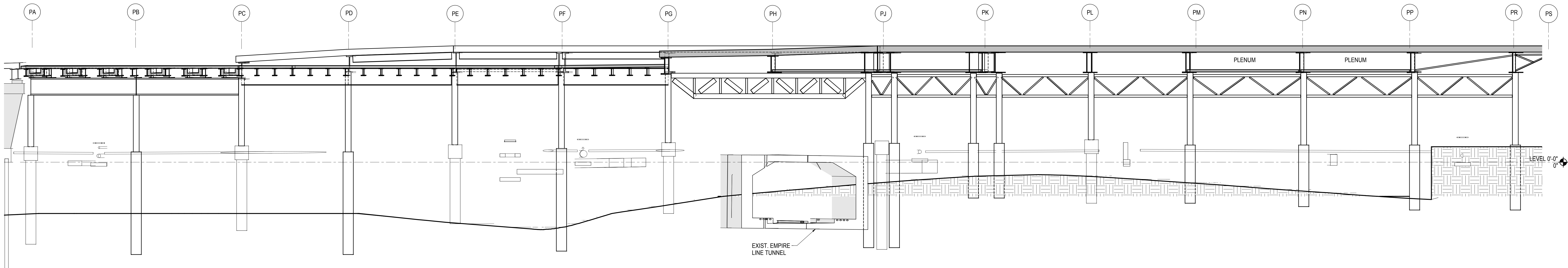
*Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security*  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

*LIRR Ventilation*  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

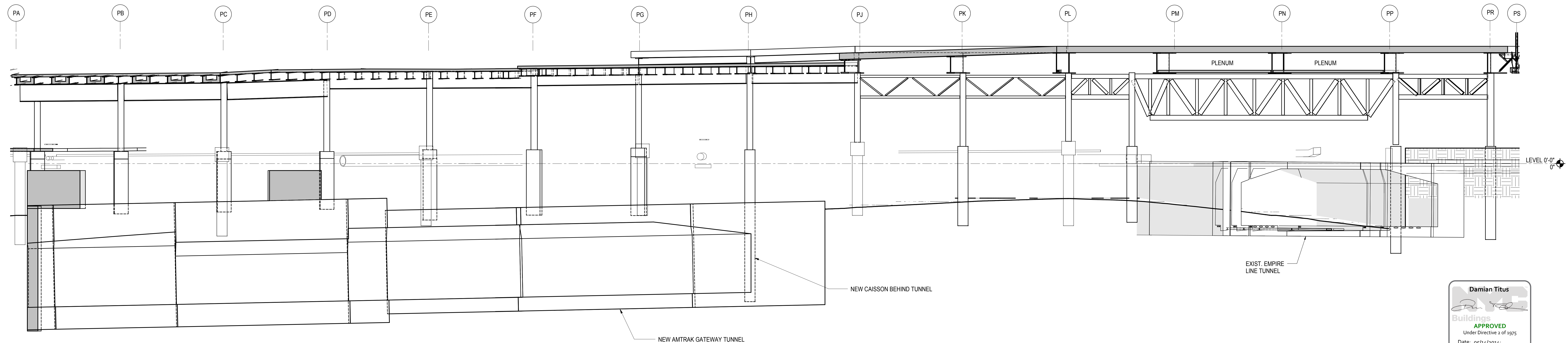
*LIRR Substation*  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



**1 ELEVATION GRID LINE P7**  
3/32" = 1'-0"



**2 ELEVATION GRID LINE P8**  
3/32" = 1'-0"



**3 ELEVATION GRID LINE P9**  
3/32" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
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NYC DOB FILING	10/4/2013
Δ - DLQ1 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE 1 FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev Plot

Date: 12/14/2012

Project No: N11330.00

Author

Minor Number

**HYE - PL - S-203.00**

Drawing Title

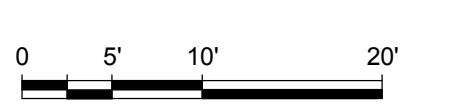
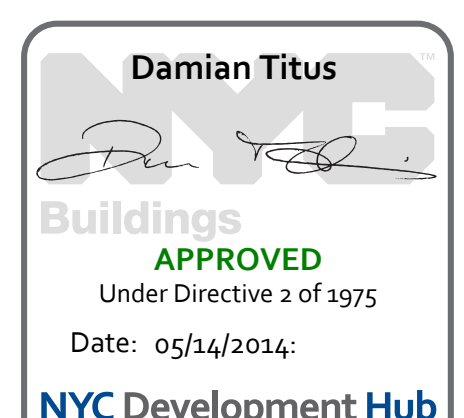
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Drawing Number / BSC/AS Drawing Number

**S-203.00**

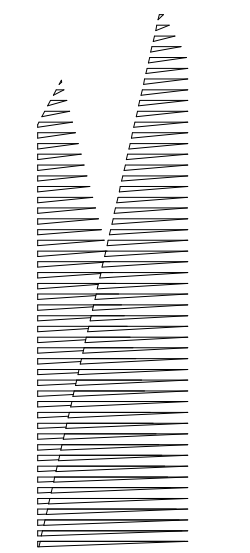
SHEET 40 OF 201

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Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
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New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

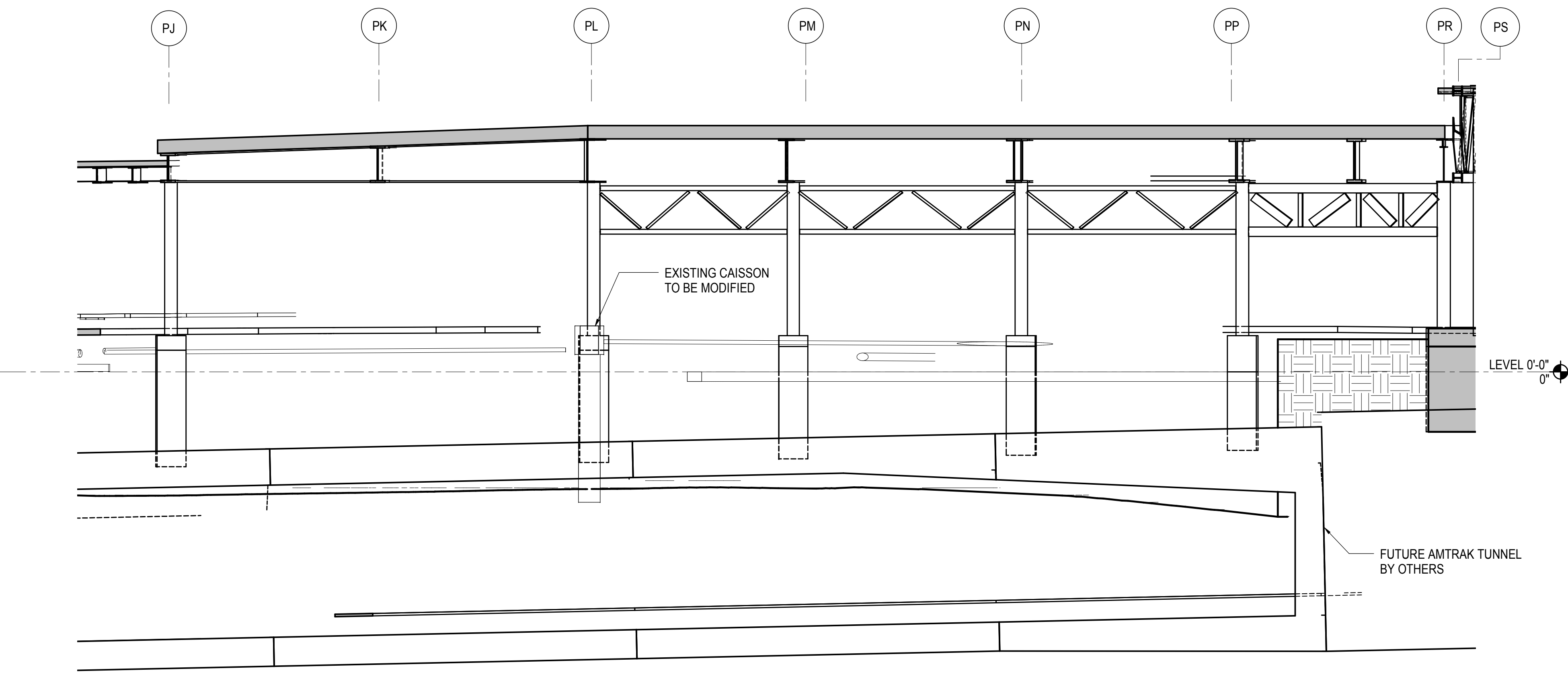
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NYC DOB FILING	10/4/2013
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LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
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LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. Plan

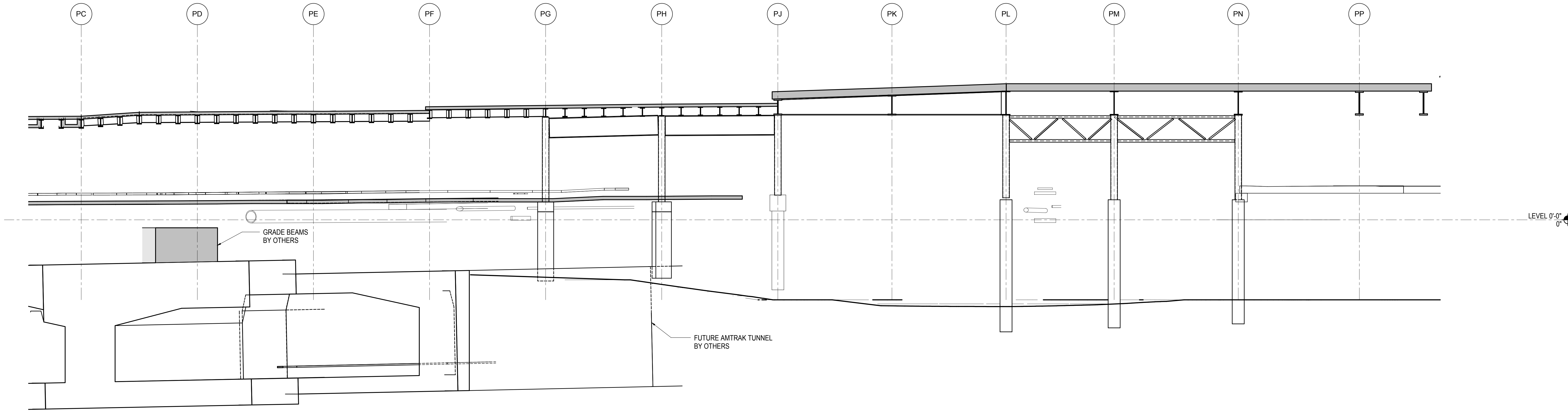
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Project No: N11330.00  
Drawn By: Author  
Issue Number:

**HYE - PL - S-204.00**  
Drawing Title  
**ELEVATION GRIDS**  
**P9A, P10, P11**

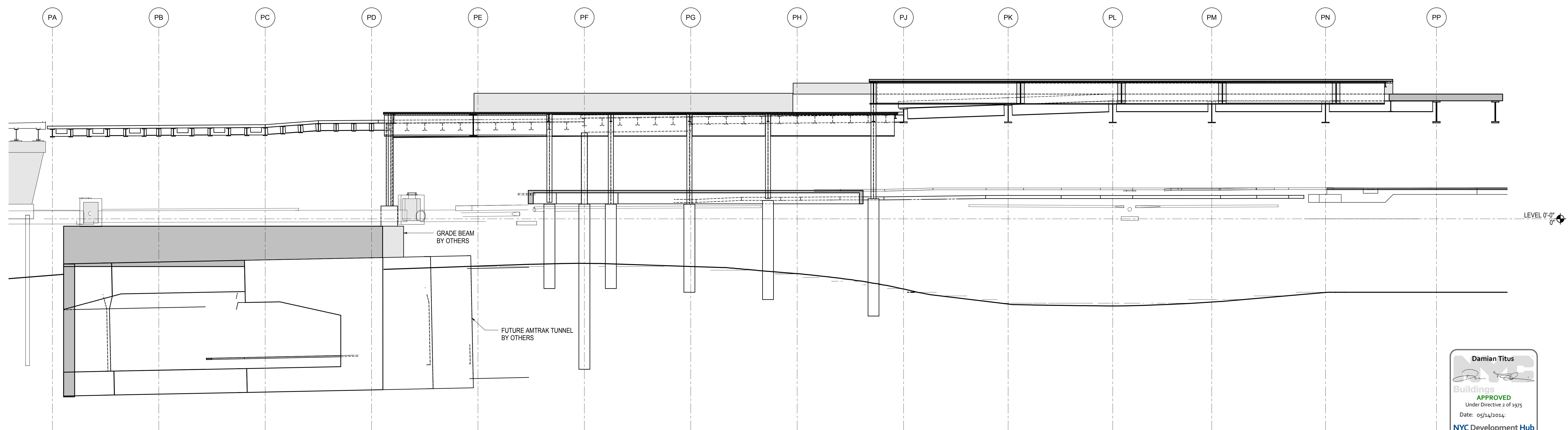
Drawing Number / B/S/C/A/S Drawing Number  
**S-204.00**



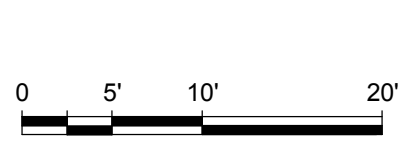
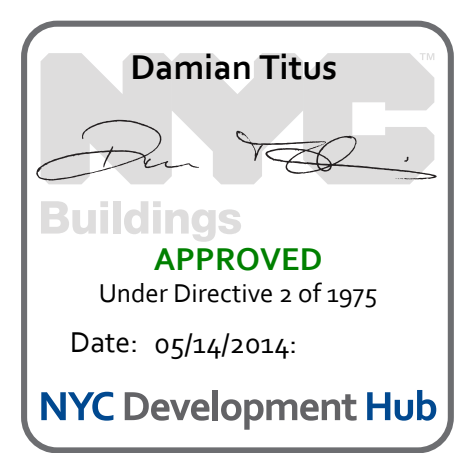
**1 ELEVATION GRID LINE P9A**  
3/32" = 1'-0"



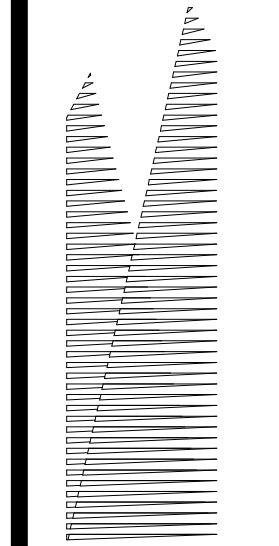
**2 ELEVATION GRID LINE P10**  
3/32" = 1'-0"



**3 ELEVATION GRID LINE P11**  
3/32" = 1'-0"







Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

File Name	Description	Date
NYC DOB FILING	100%	12/4/2013
L.I.R.R. - PRE-FINAL	100%	11/22/2013
M&T - PLATFORM SUBMISSION		
Δ - DL42 PHASE I STRUCTURAL UPDATE		11/1/2013
NYC DOB FILING		10/4/2013
Δ - DL40 PHASE I STRUCTURE UPDATE		9/20/2013
LIRR - 90% SUBMISSION		8/09/2013
NYC DOB FILING		6/17/2013
LIRR - 60% SUBMISSION		5/29/2013
LIRR - 60% - PHASE I FDNS		3/29/2013
LIRR - 30% SUBMISSION		2/15/2013

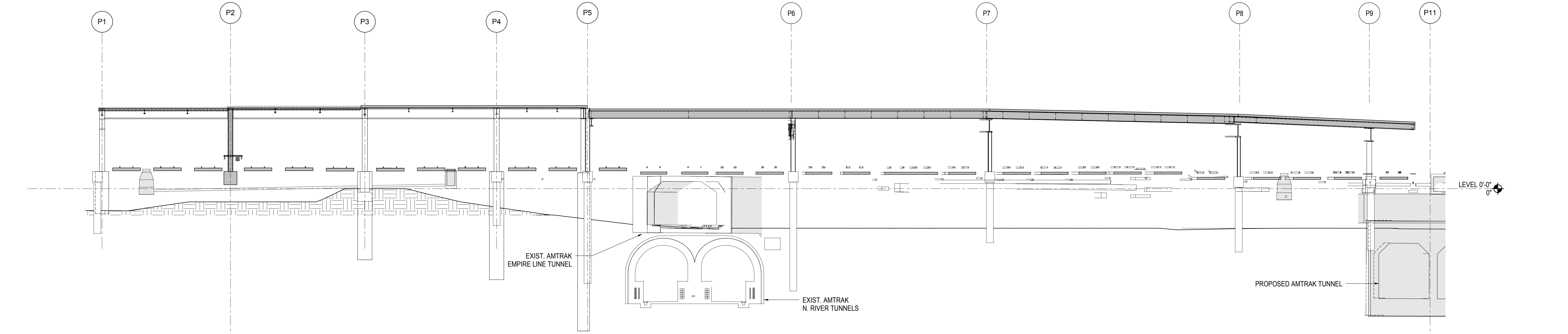
File Name

Date: 12/14/2012  
Project No: N11330.00  
Author: Author

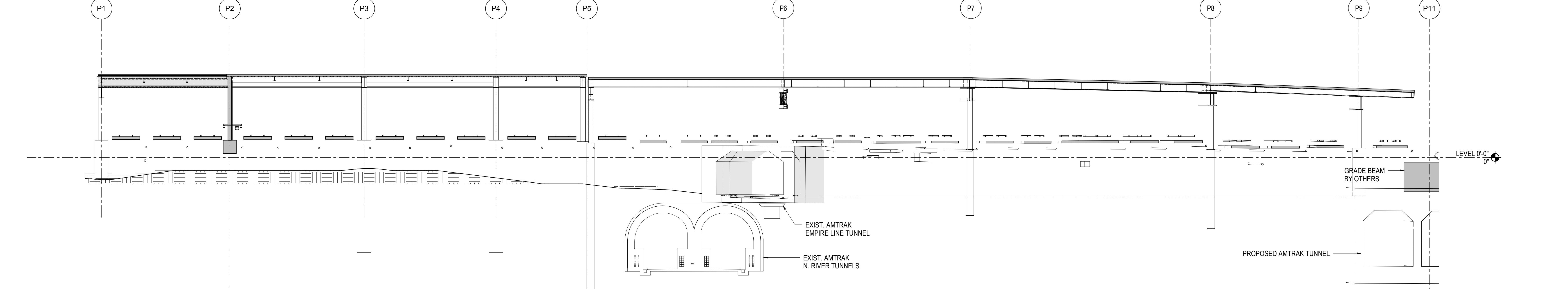
**HYE - PL - S-205.00**  
ELEVATIONS GRIDS PA TO PD

Drawing Number / B/S/C/S Drawing Number  
**S-205.00**

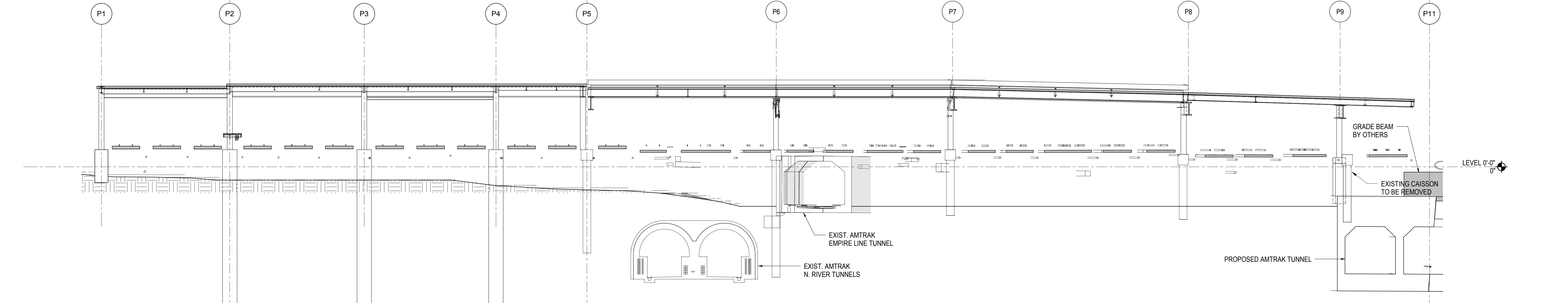
SHEET 42 OF 201



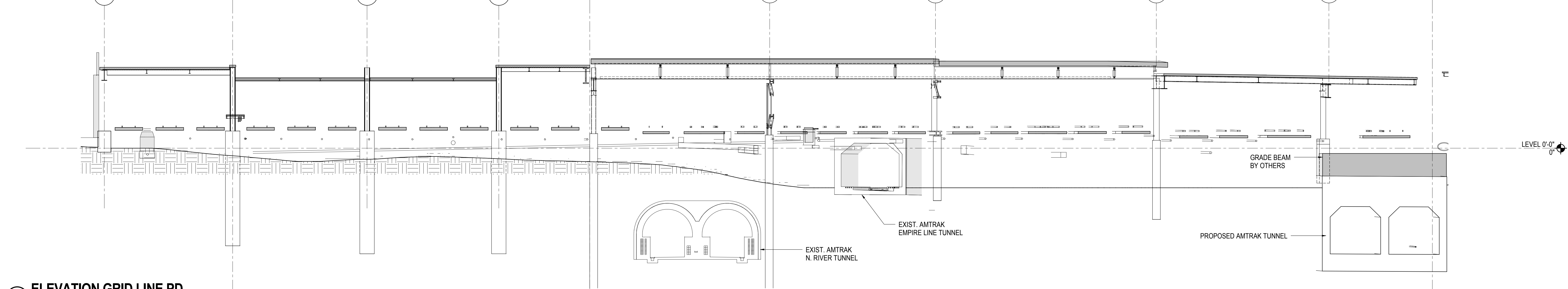
**1 ELEVATION GRID LINE PA**  
1/16" = 1'-0"



**2 ELEVATION GRID LINE PB**  
1/16" = 1'-0"

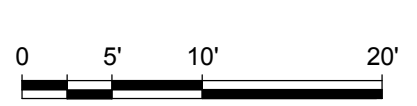
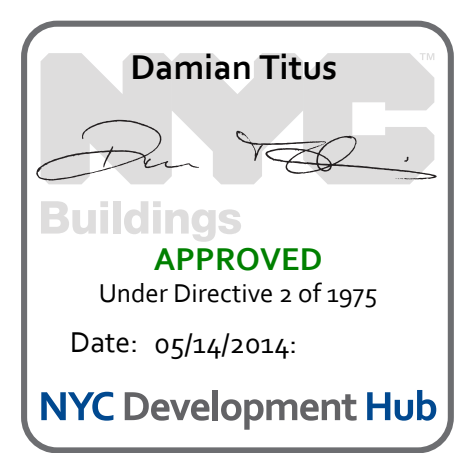


**3 ELEVATION GRID LINE PC**  
1/16" = 1'-0"



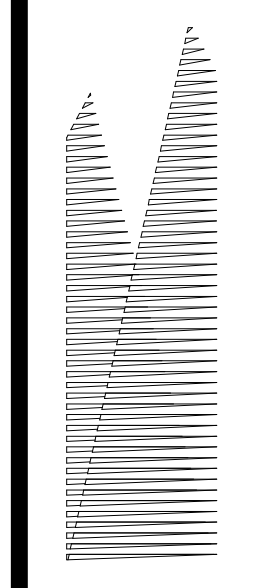
**4 ELEVATION GRID LINE PD**  
1/16" = 1'-0"

NOTES: OPENINGS IN PLATE GIRDERS ARE OMITTED FOR CLARITY. REFER TO S5-11.00 FOR DETAILS



ELEVATIONS GRIDS PA TO PD  
 11/22/2013 8:17:12 PM  
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**Client**  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

**Structural Engineer**  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

**Construction Manager**  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

**Architect**  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

**Structural Engineer**  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
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**Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security**  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

**LIRR Ventilation**  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

**LIRR Substation**  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

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605 Third Avenue  
New York, NY 10158  
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**LIRR Substation**  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

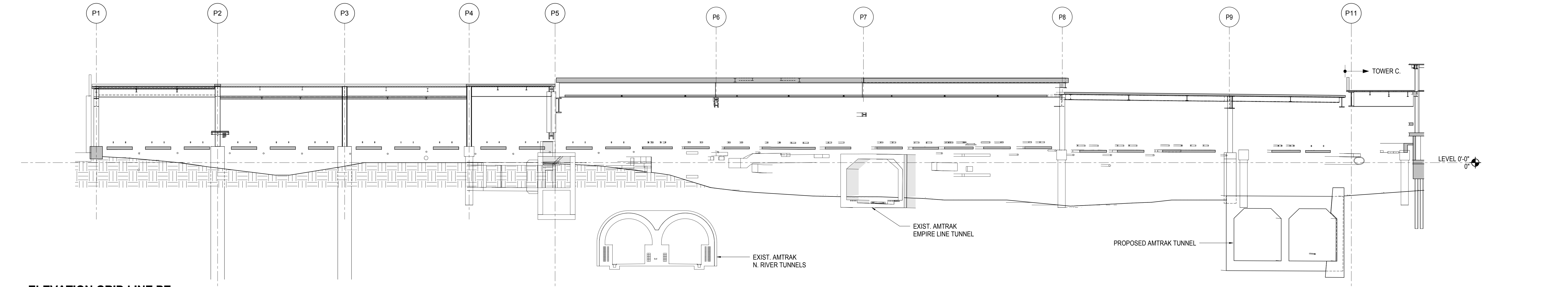
**LIRR Substation**  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

**LIRR Substation**  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

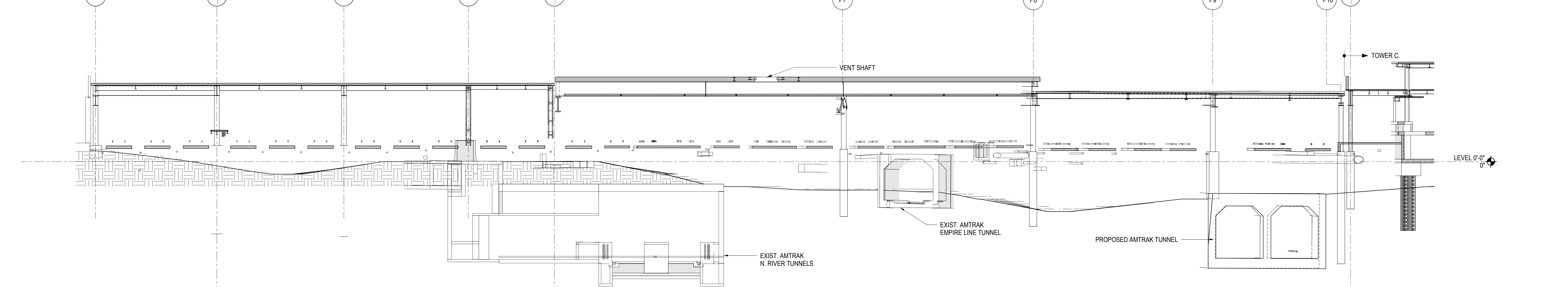
**LIRR Substation**  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

**LIRR Substation**  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

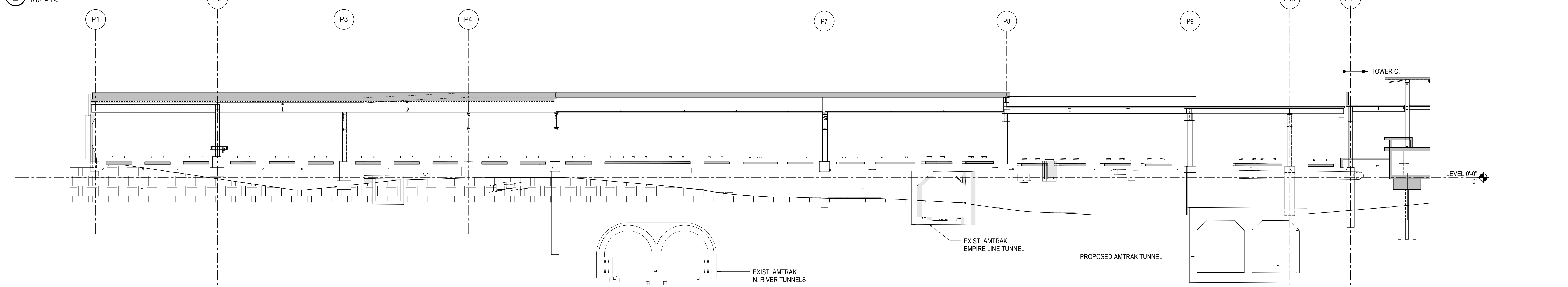
**LIRR Substation**  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



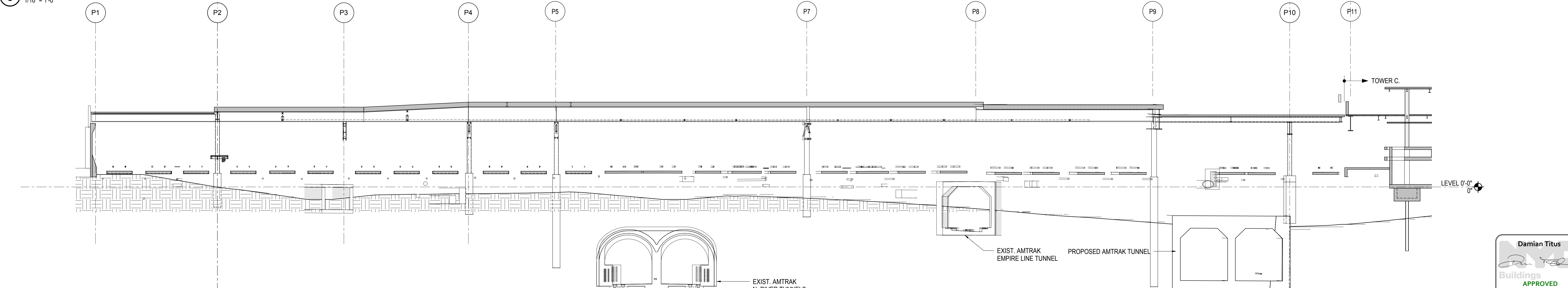
**1 ELEVATION GRID LINE PE**  
1/16" = 1'-0"



**2 ELEVATION GRID LINE PF**  
1/16" = 1'-0"

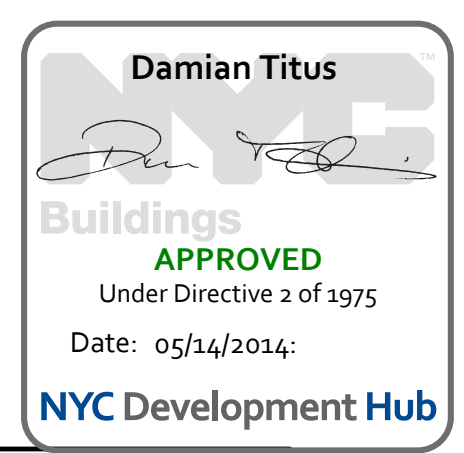


**3 ELEVATION GRID LINE PG**  
1/16" = 1'-0"



**4 ELEVATION GRID LINE PH**  
1/16" = 1'-0"

NOTES: OPENINGS IN PLATE GIRDERS ARE OMITTED FOR CLARITY. REFER TO S5-11.00 FOR DETAILS



Date: 12/14/2012  
Project No: N11330.00  
Title: Author  
Sheet Number: Author

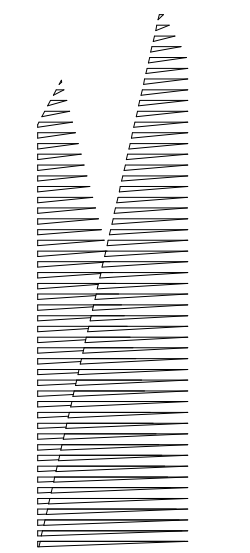
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Drawing Title: **ELEVATIONS GRIDS PE TO PH**

Drawing Number / BSC/AS Drawing Number  
**S-206.00**

SHEET 43 OF 201

ELEVATIONS GRIDS PE TO PH  
11/22/2012 10:18:17 AM  
C:\Schemata\N11330.00 - East Platform - Central\_Corridor





Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

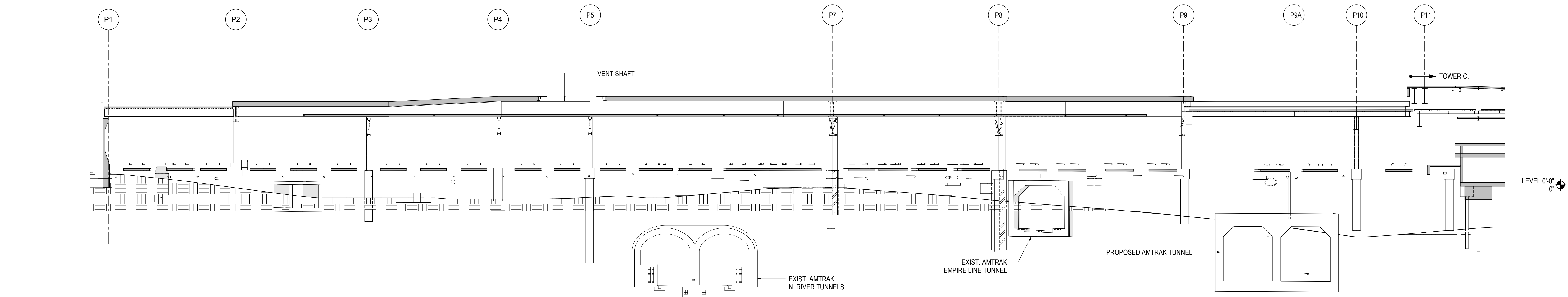
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

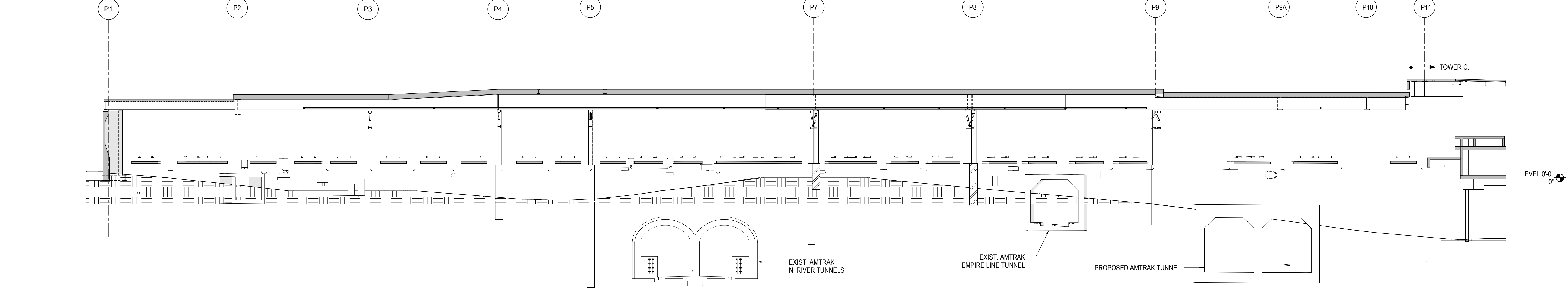
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

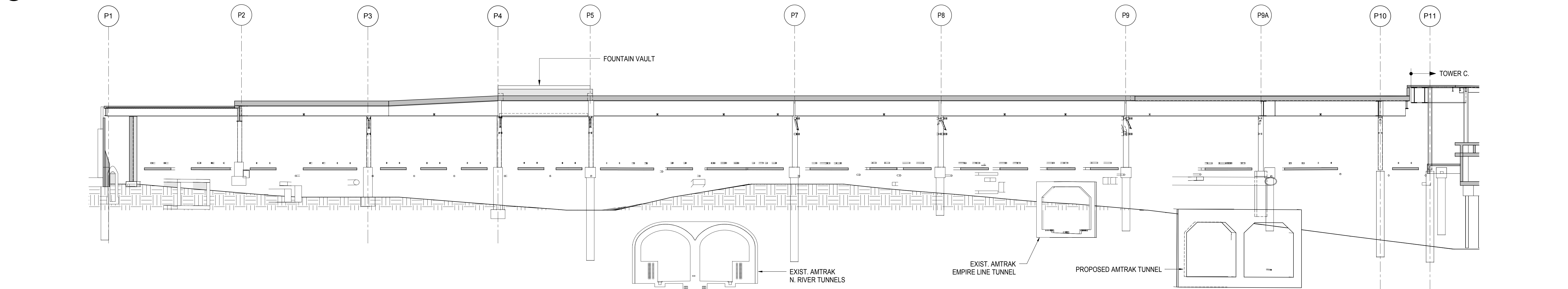
LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



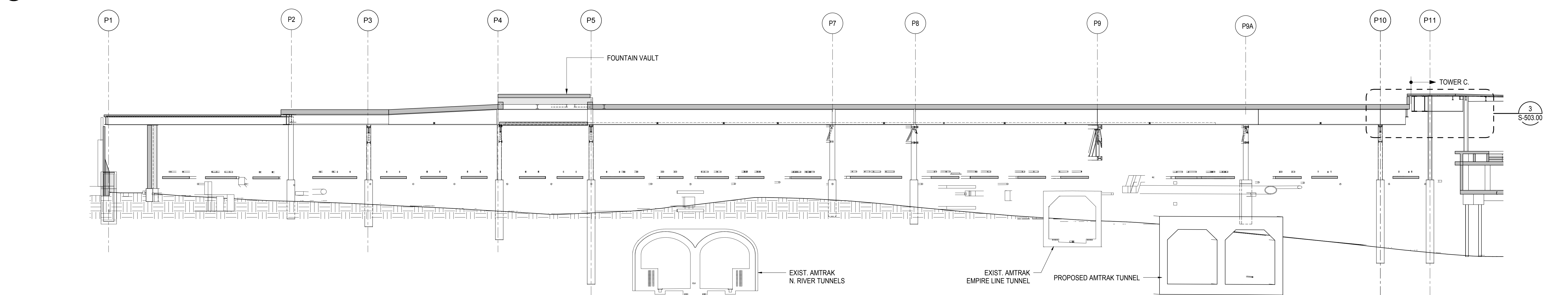
**1 ELEVATION GRID LINE PJ**  
1/16" = 1'-0"



**2 ELEVATION GRID LINE PK**  
1/16" = 1'-0"



**3 ELEVATION GRID LINE PL**  
1/16" = 1'-0"

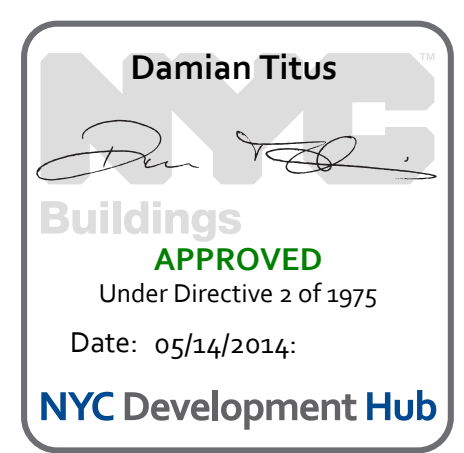


**4 ELEVATION GRID LINE PM**  
1/16" = 1'-0"

NOTES: OPENINGS IN PLATE GIRDERS ARE OMITTED FOR CLARITY. REFER TO S5-11.00 FOR DETAILS

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DL02 PHASE I STRUCTURAL UPDATE	1/11/2013
NYC DOB FILING	10/4/2013
Δ - DL01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
By Description	Date

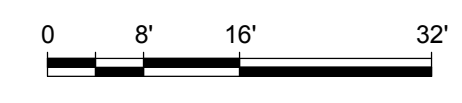
Fig. Plan



Date: 12/14/2012  
Project No: N11330.00  
Title: Author  
Sheet Number: Author

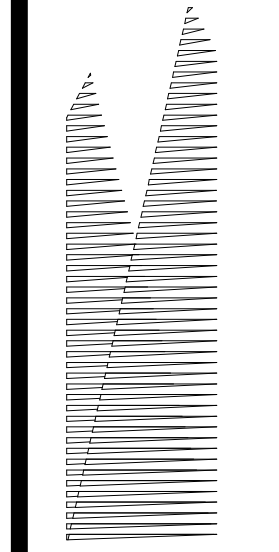
**HYE - PL - S-207.00**  
ELEVATIONS GRIDS PJ TO PM

Drawing Number / B/S/C/S Drawing Number  
**S-207.00**



S-207.00  
11/22/2013 8:36:51 PM  
C:\Schemata\N11330.00 - East Platform - Central\_Contract





Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Overland Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

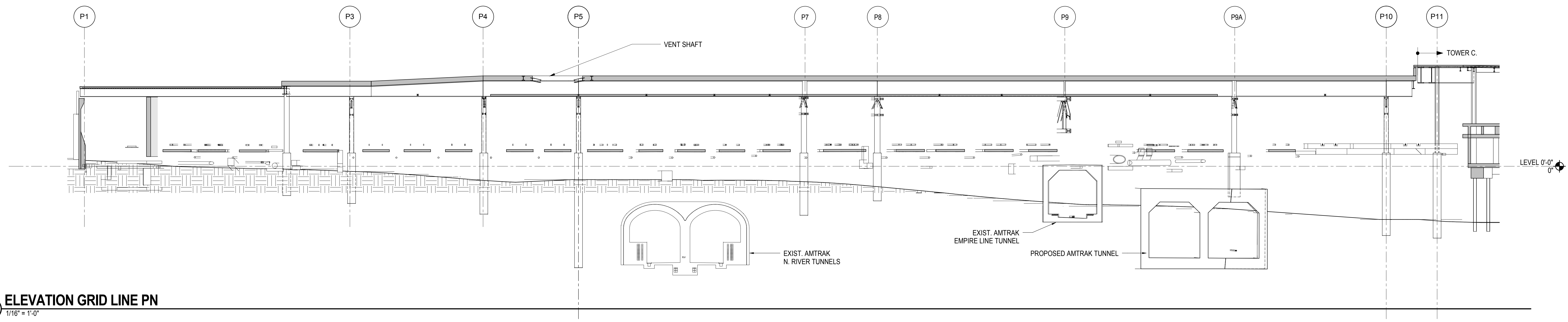
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

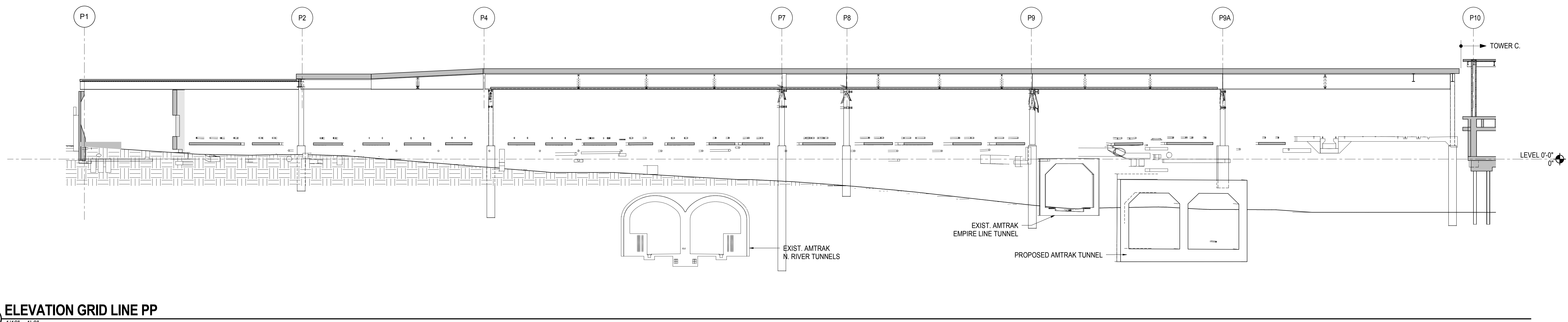
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

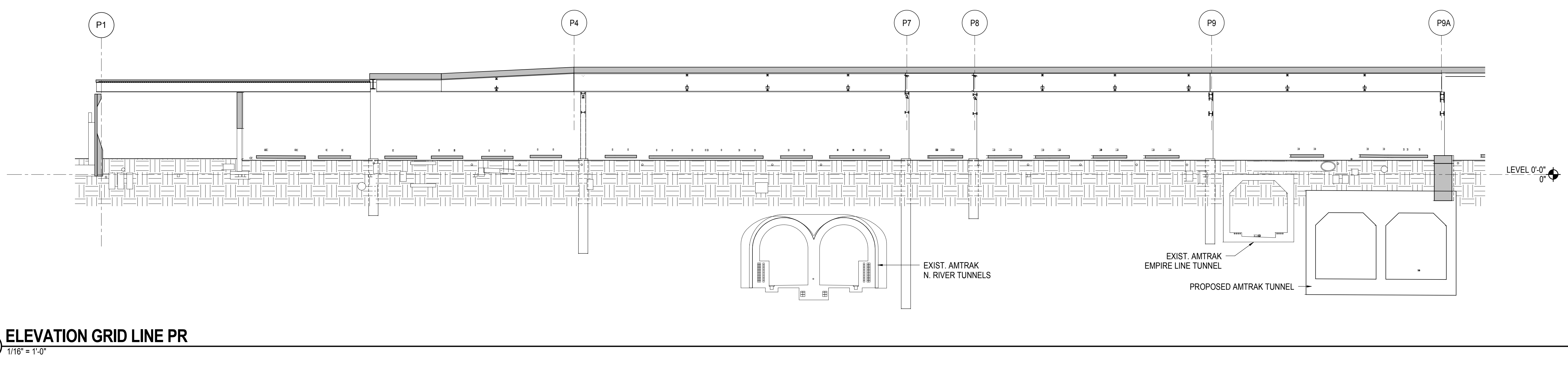
LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



**1 ELEVATION GRID LINE PN**  
1/16" = 1'-0"



**2 ELEVATION GRID LINE PP**  
1/16" = 1'-0"



**3 ELEVATION GRID LINE PR**  
1/16" = 1'-0"

File Name	Description	Date
NYC DOB FILING	100%	12/4/2013
LIRR - PRE-FINAL	100%	11/22/2013
M&E - PLATFORM SUBMISSION		
Δ - DL02 PHASE I STRUCTURAL UPDATE		11/1/2013
NYC DOB FILING		10/4/2013
Δ - DL01 PHASE I STRUCTURE UPDATE		9/20/2013
LIRR - 90% SUBMISSION		8/09/2013
NYC DOB FILING		6/17/2013
LIRR - 60% SUBMISSION		5/29/2013
LIRR - 60% - PHASE I FDNS		3/29/2013
LIRR - 30% SUBMISSION		2/15/2013

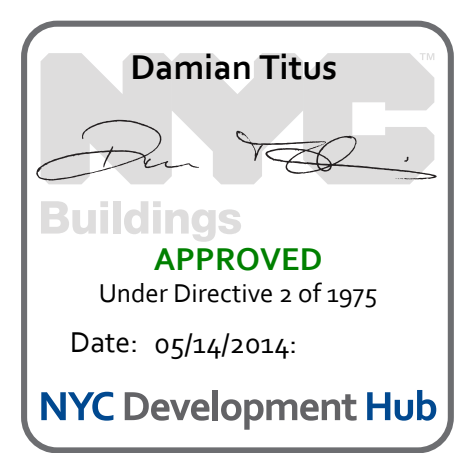
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Date: 12/14/2012  
Project No: N11330.00  
Drawn By: Author  
Sheet Number:

**HYE - PL - S-208.00**  
Drawing Title  
**ELEVATIONS GRIDS PN TO PR**

Drawing Number / BSC/AS Drawing Number  
**S-208.00**

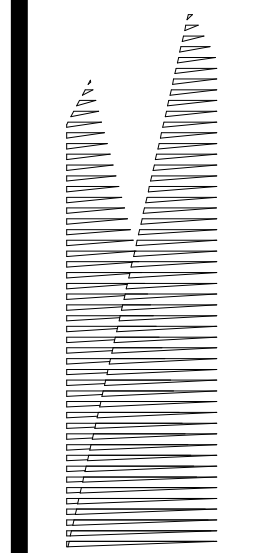
SHEET 45 OF 201



NOTES: OPENINGS IN PLATE GIRDERS ARE OMITTED FOR CLARITY. REFER TO S5-11.00 FOR DETAILS

ELEVATIONS GRIDS PN TO PR  
 11/22/2013 8:18:19 PM  
 C:\Schemata\N11330.00 - East Platform - Central\_Corridor





Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York, 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

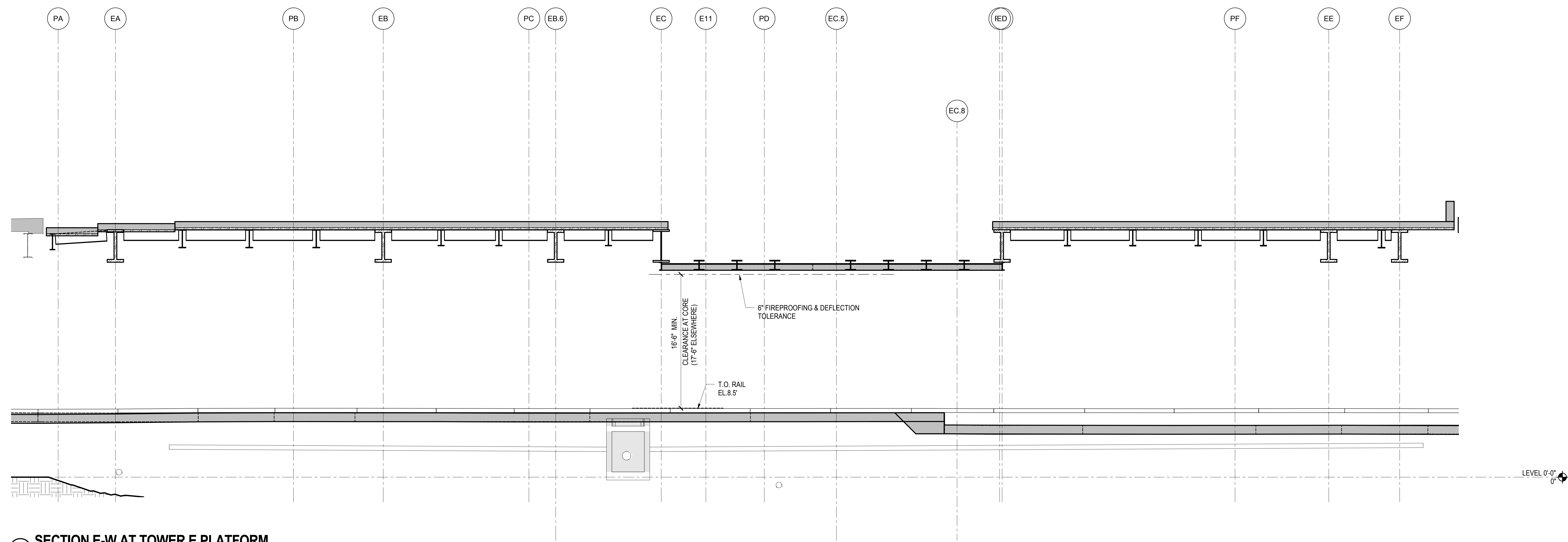
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

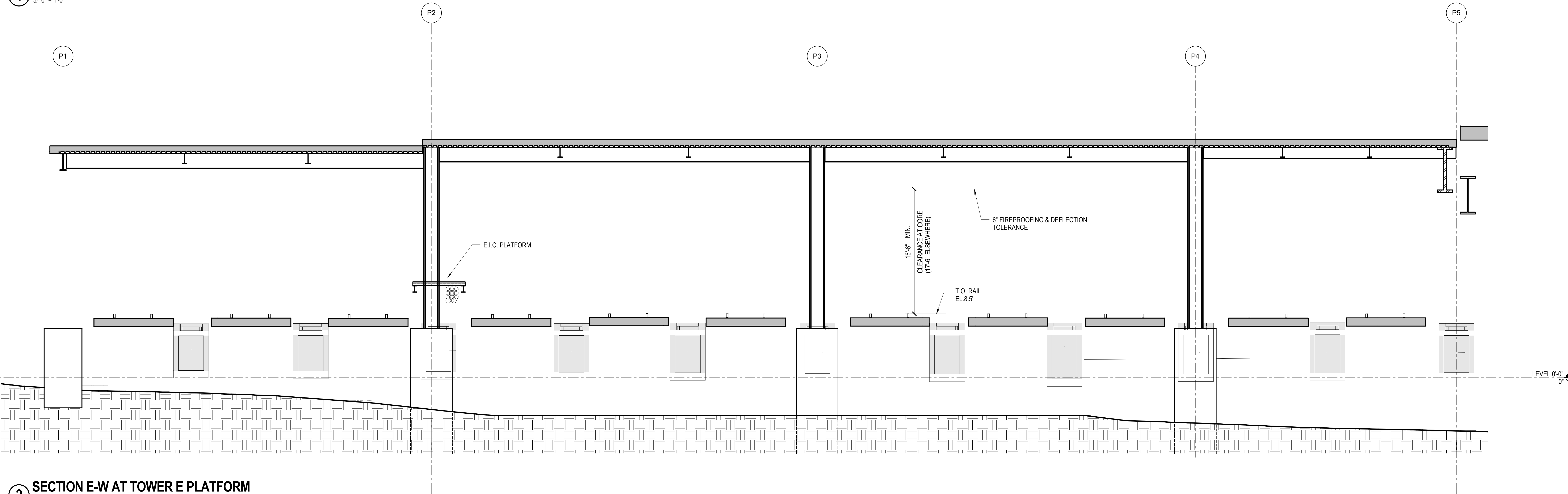
LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DL02 PHASE I STRUCTURAL UPDATE	1/11/2013
NYC DOB FILING	10/4/2013
Δ - DL01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

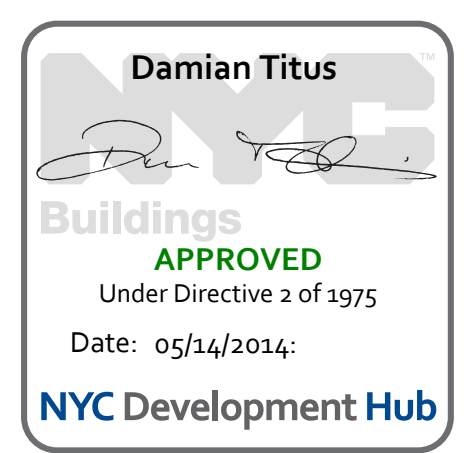
Rev. Plan



1 SECTION E-W AT TOWER E PLATFORM  
3/16" = 1'-0"



2 SECTION E-W AT TOWER E PLATFORM  
3/16" = 1'-0"

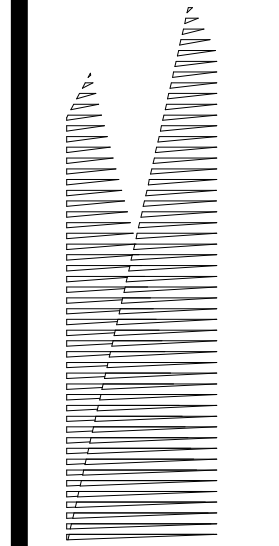


Date: 12/14/2012  
Project No: N11330.00  
Author: Author

**HYE - PL - S-240.00**  
Drawing Title  
**TOWER E PLATFORM SECTIONS AND ELEVATIONS**

Drawing Number / BSC/AS Drawing Number  
**S-240.00**





*Client*  
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60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

*Owner*  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

*Construction Manager*  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

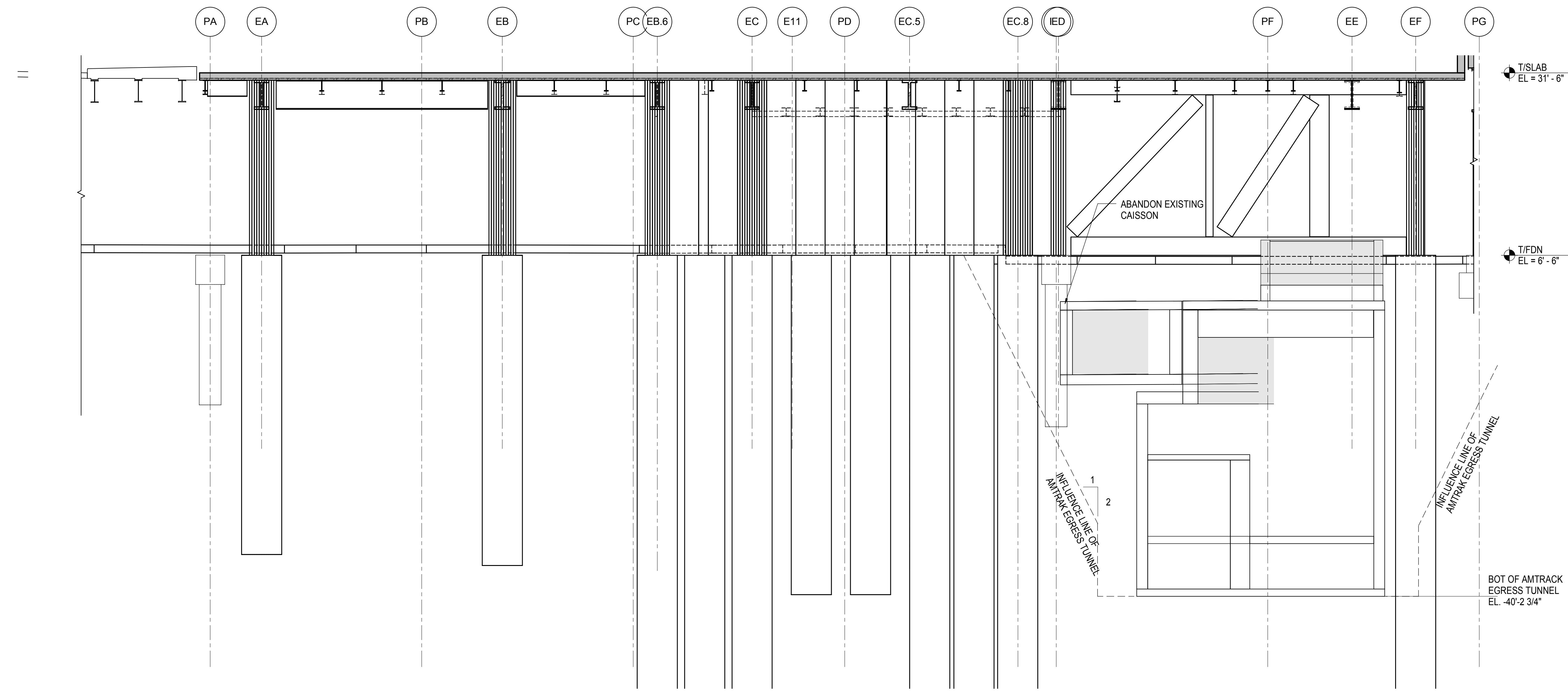
*Architect*  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

*Structural Engineer*  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

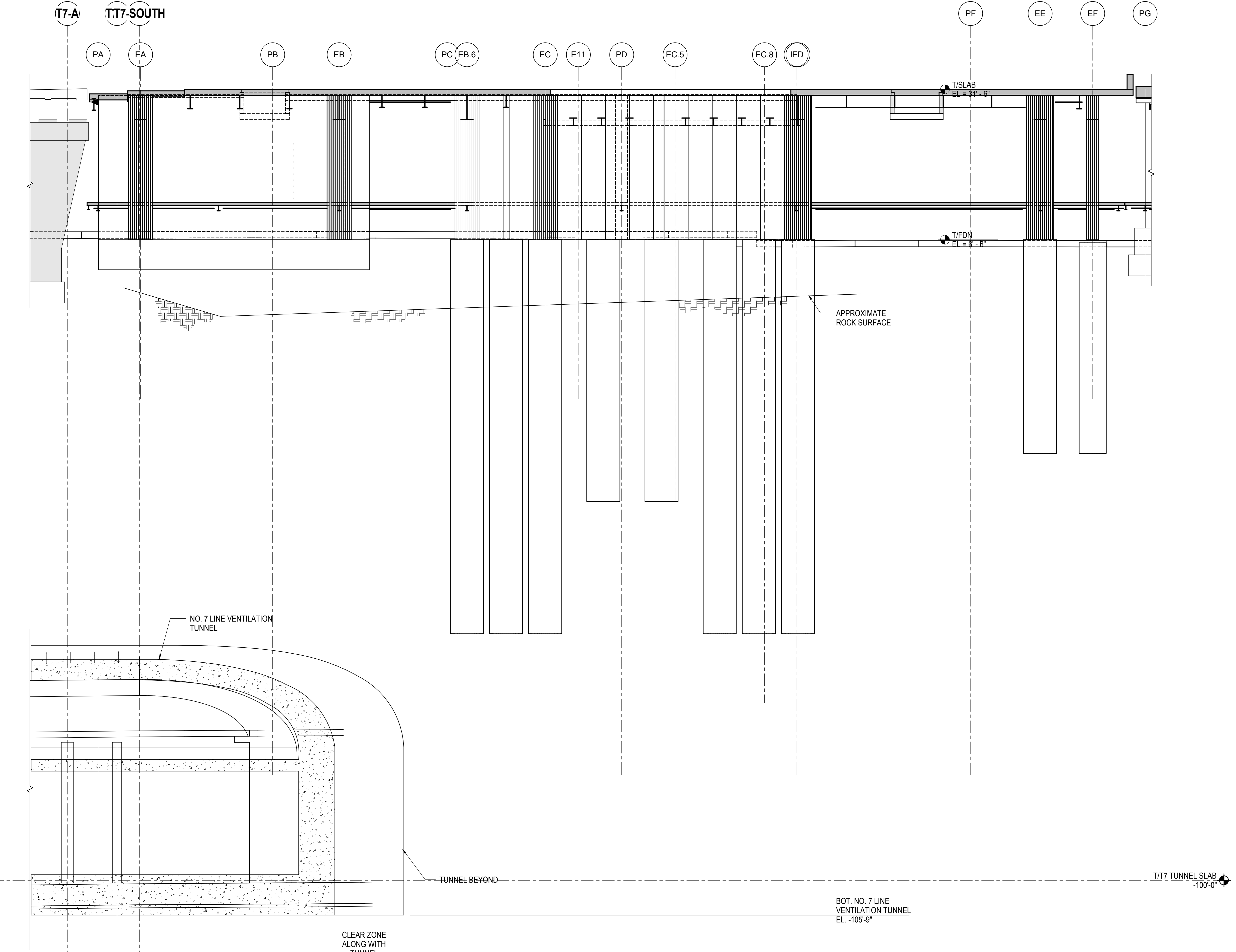
*Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security*  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

*LIRR Ventilation*  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

*LIRR Substation*  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



**1 SECTION AT GRID E4**  
1/8" = 1'-0"



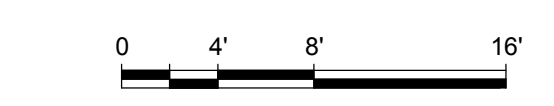
**2 SECTION AT GRID E2**  
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L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
A - DL02 PHASE I STRUCTURAL UPDATE	1/1/2013
NYC DOB FILING	10/4/2013
A - DL01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Project No.	12/14/2012
Project No.	N11330.00
Author	
Check	
Drawn	
Scale	
Date	05/14/2014

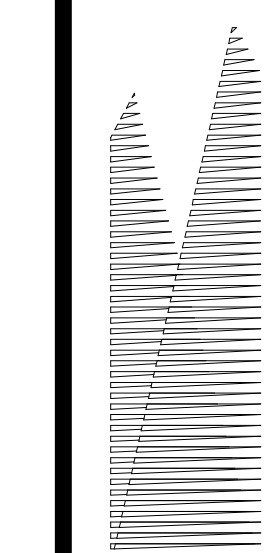
**Damian Titus**  
APPROVED  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub

**NYC DOB**  
APPROVED  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub



TOWER E FOUNDATION SECTIONS  
 S-241.00  
 11/22/2013 8:48:30 PM  
 C:\Users\dm13307\OneDrive\East Platform - Central\_Corridor





Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DL02 PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ - DL01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. Plan

Date: 02/15/13  
Project No: N11330.00  
Drawn By: Author  
Issue Number:

**HYE - PL - S-250.00**

**ELEVATION AT GRID LINE A-A**

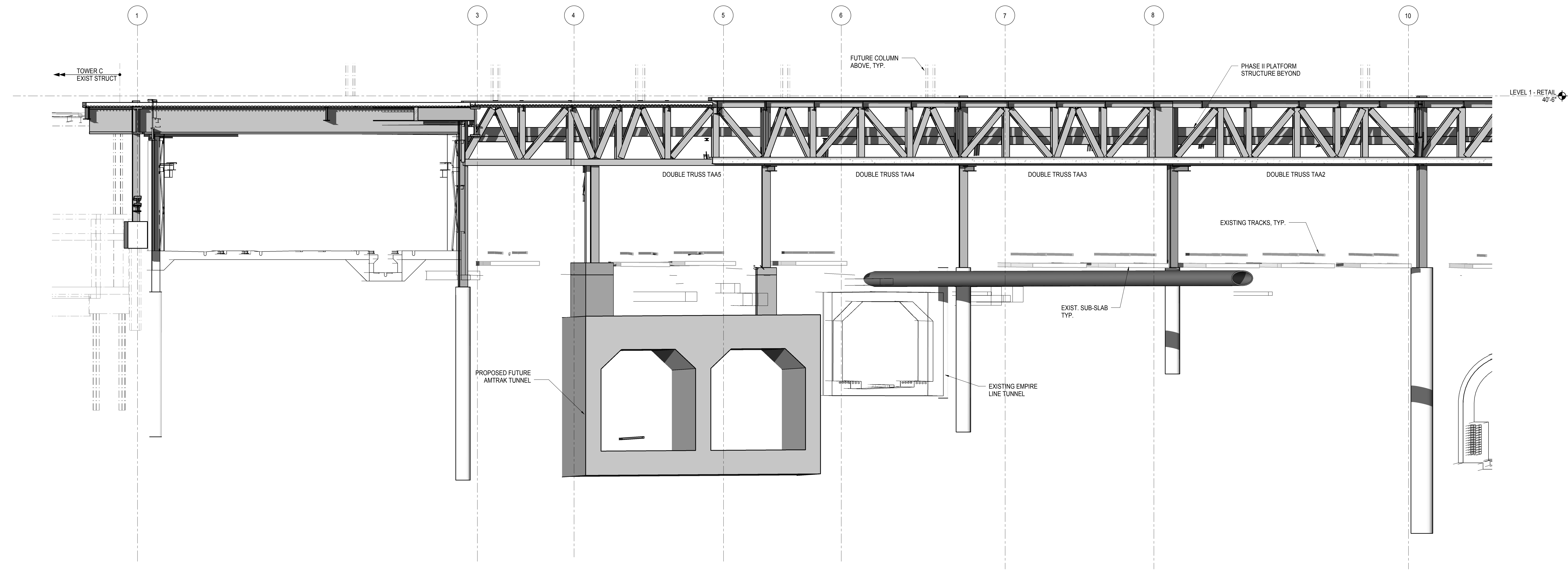
Drawing Title

Under Directive 3 of 1975  
Date: 05/14/2014

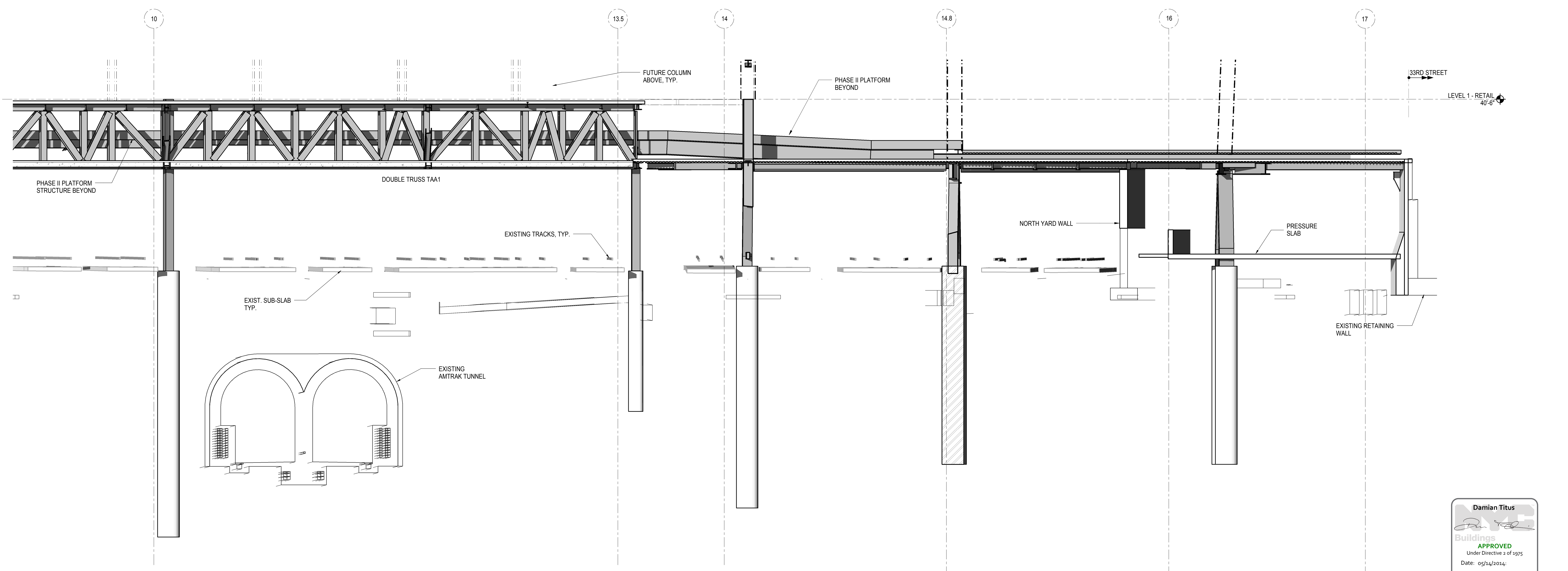
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**S-250.00**

SHEET 48 OF 201

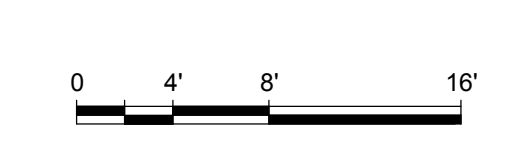
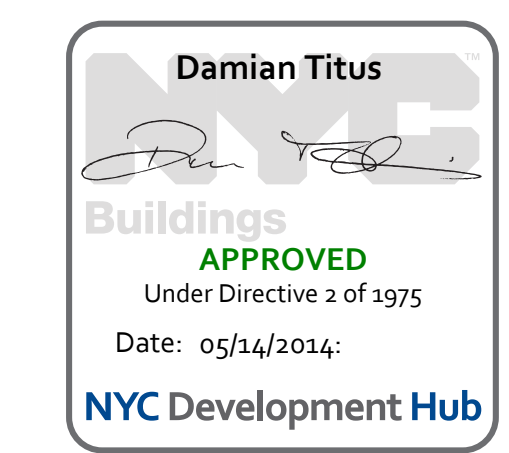
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**1 ELEVATION AT GRID LINE A-A**  
1/8" = 1'-0"

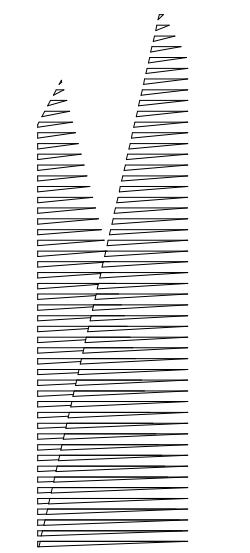


**2 ELEVATION AT GRID LINE A-A**  
1/8" = 1'-0"



S-250.00  
 11/22/2013 2:29:30 PM  
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Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Overland Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

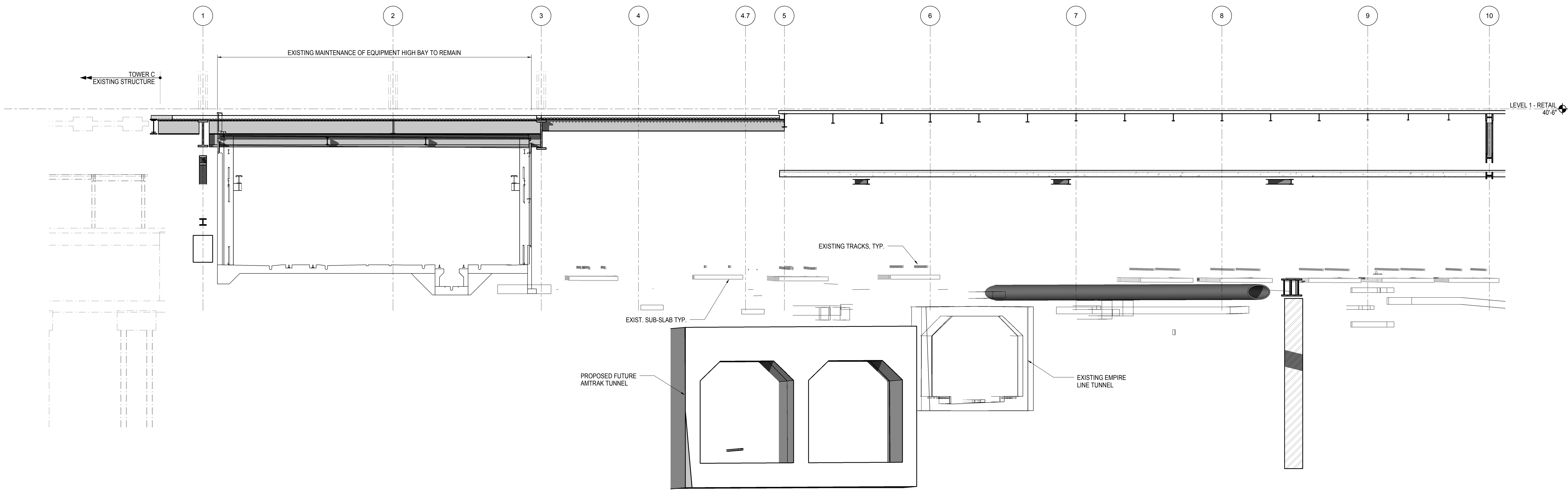
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

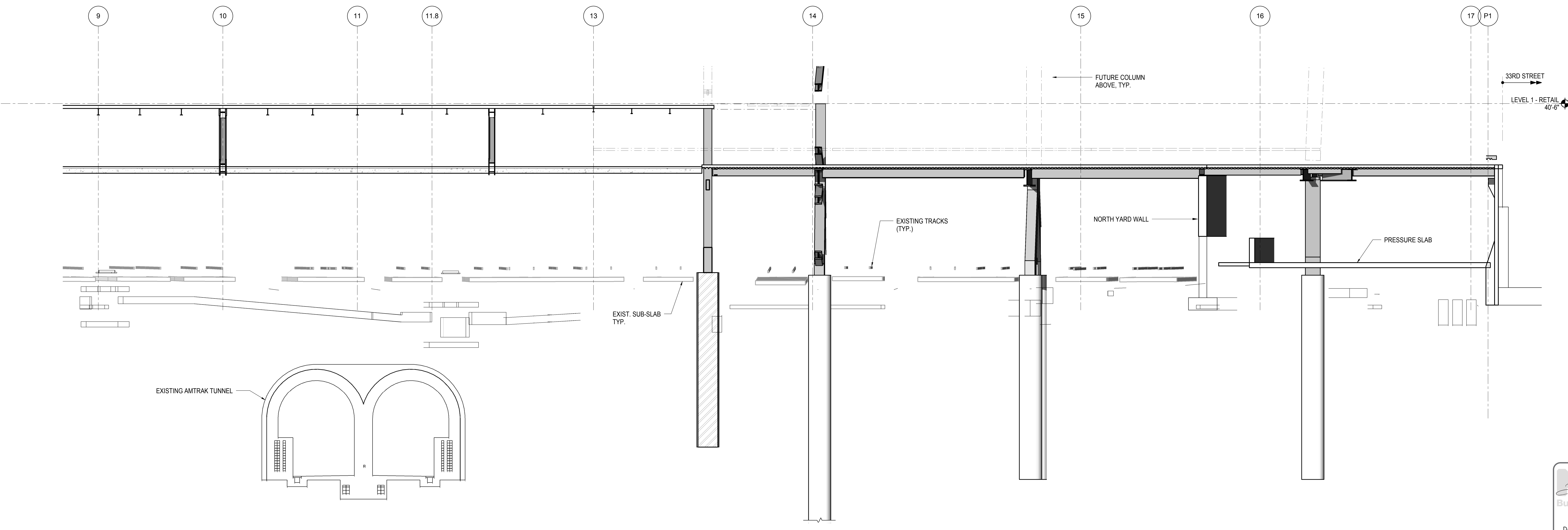
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



**1 ELEVATION AT GRID LINE A**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE A**  
1/8" = 1'-0"

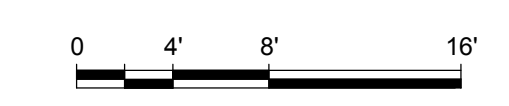
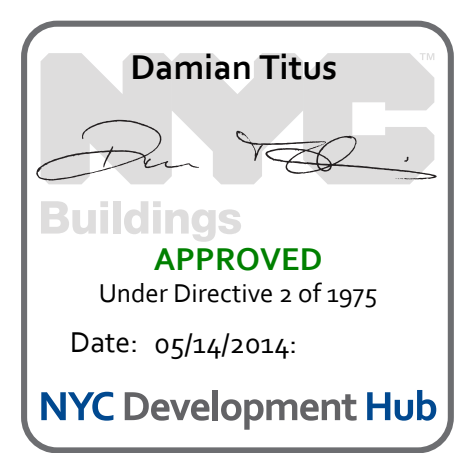
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L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - D/E/O PHASE I STRUCTURAL UPDATE	1/11/2013
NYC DOB FILING	10/4/2013
Δ - D/E/O PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev Plot

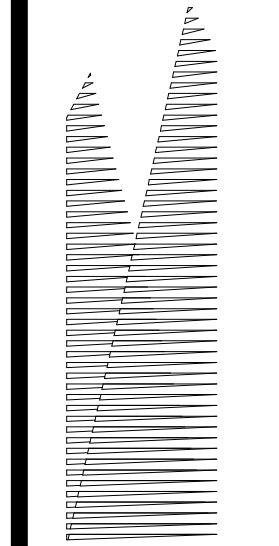
Date: 02/15/2013  
Project No: N11330.00  
Author:

**HYE - PL - S-251.00**  
**ELEVATION AT GRID LINE A**

Drawing Number / B/S/C/S Drawing Number  
**S-251.00**







**Client**  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

**Owner**  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

**Construction Manager**  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

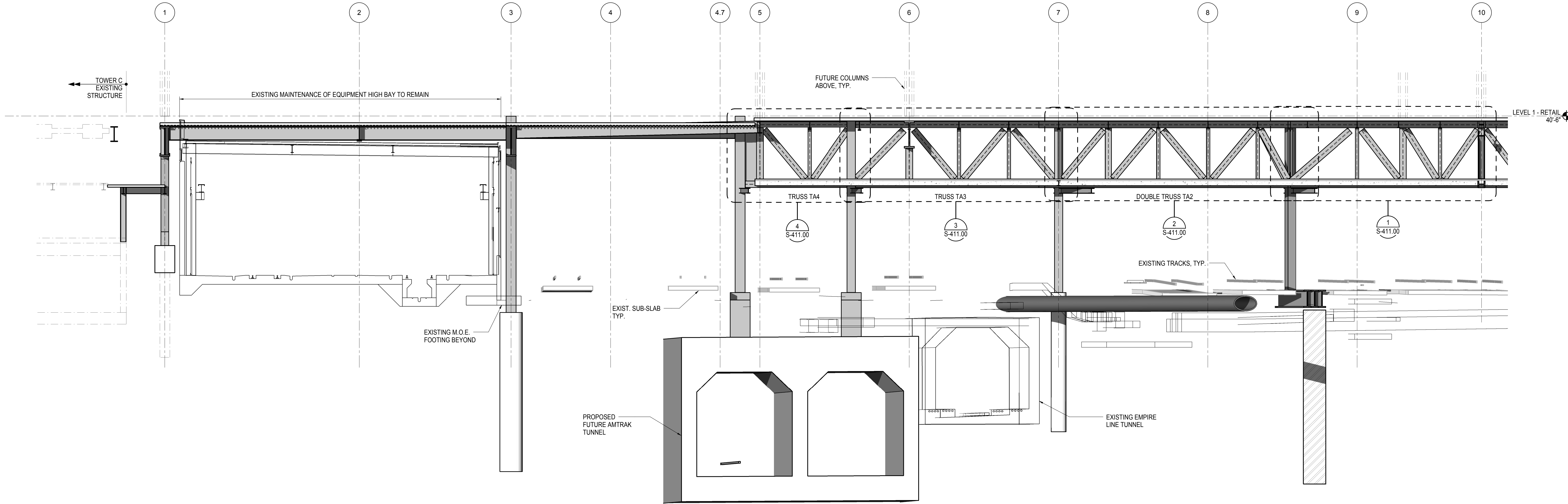
**Architect**  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

**Structural Engineer**  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

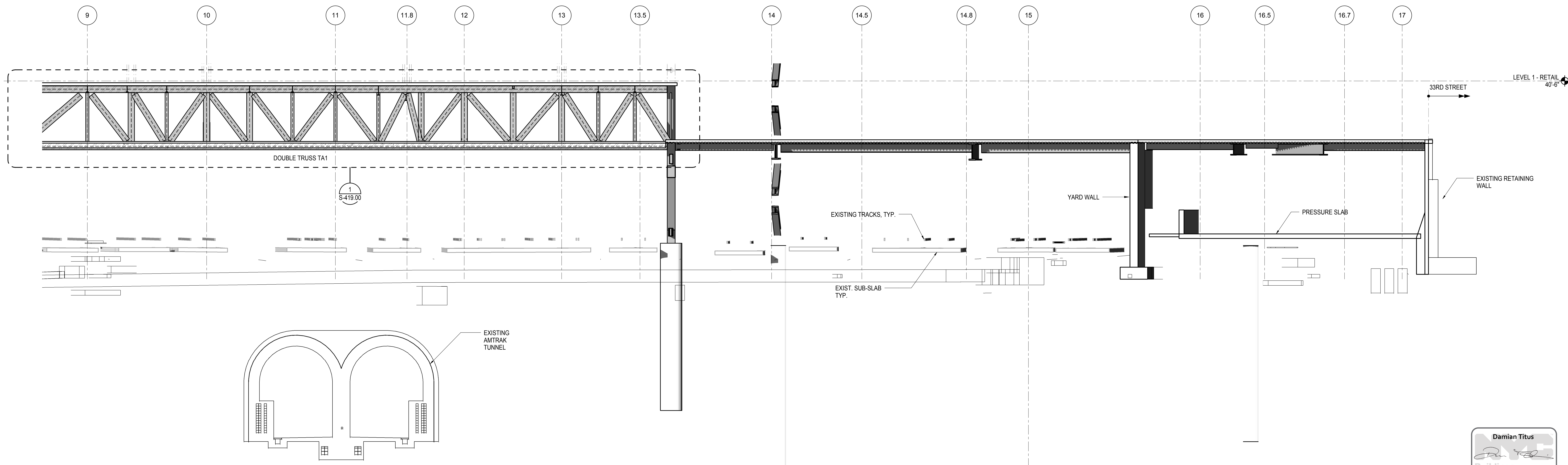
**Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security**  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

**LIRR Ventilation**  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

**LIRR Substation**  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



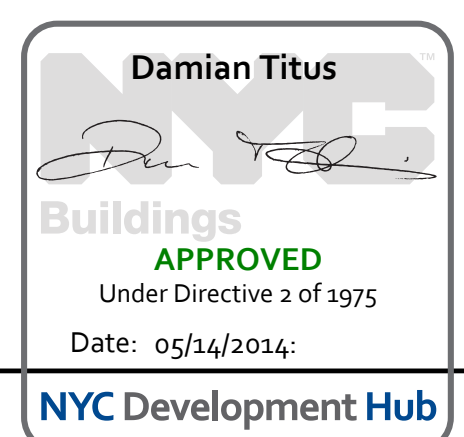
**1 ELEVATION AT GRID LINE A.5**  
1/8" = 1'-0"



**2 ELEVATION AT GRIDLINE A.5**  
1/8" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ DEQ PHASE I STRUCTURAL UPDATE	1/1/2013
NYC DOB FILING	10/4/2013
Δ DEQ PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. Plan

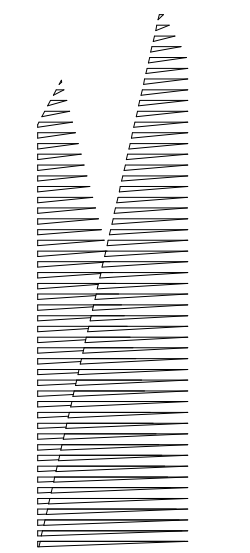


Date: 02/15/13  
Project No: N11330.00  
Title: Author  
Sheet Number

**HYE - PL - S-252.00**  
**ELEVATION AT GRID LINE A.5**







Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Owner  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

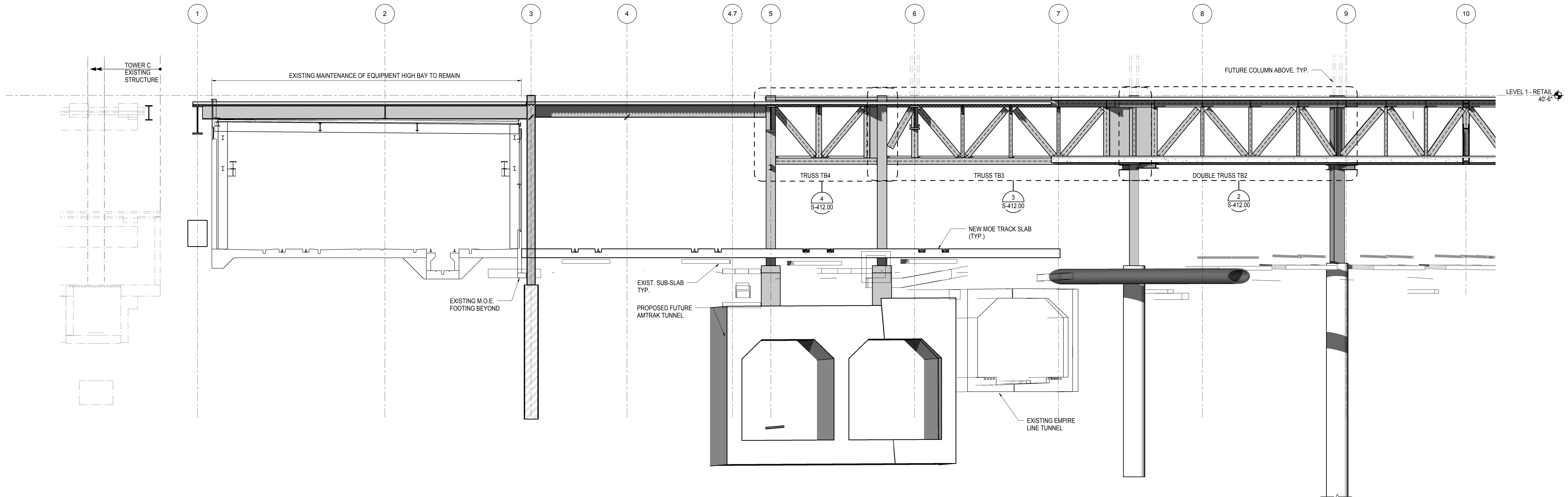
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2	L.I.R.R. - PRE-FINAL SUBMISSION	11/22/2013
3	M&T - PLATFORM SUBMISSION	11/11/2013
4	DL42 PHASE 1 STRUCTURAL UPDATE	11/11/2013
5	NYC DOB FILING	10/4/2013
6	DL42 PHASE 1 STRUCTURE UPDATE	9/20/2013
7	LIRR - 90% SUBMISSION	8/09/2013
8	NYC DOB FILING	6/17/2013
9	LIRR - 60% SUBMISSION	5/29/2013
10	LIRR - 60% - PHASE 1 FDNS	3/29/2013
11	LIRR - 30% SUBMISSION	2/15/2013

Rev Plot

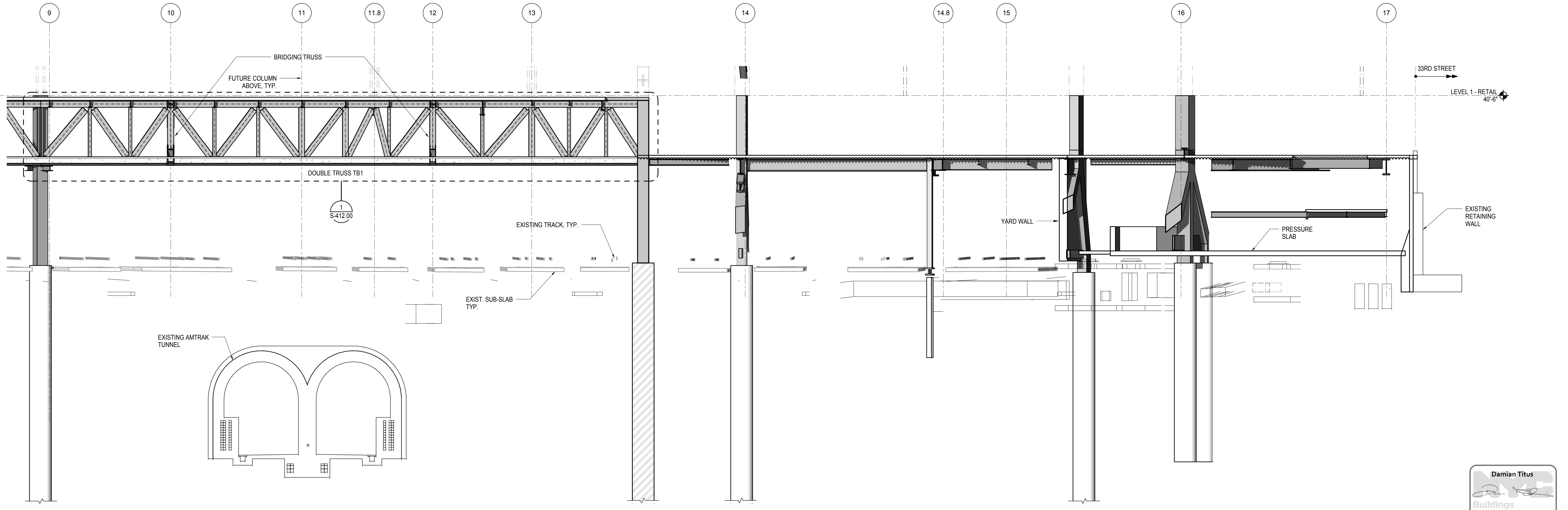
Date: 02/15/13  
Project No: N11330.00  
Author: Damian Titus

**HYE - PL - S-253.00**  
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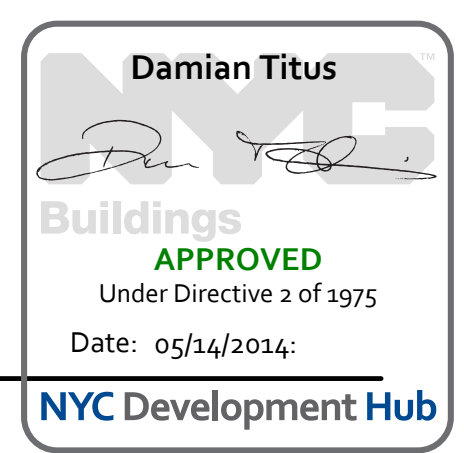
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**S-253.00**  
SHEET 51 OF 201



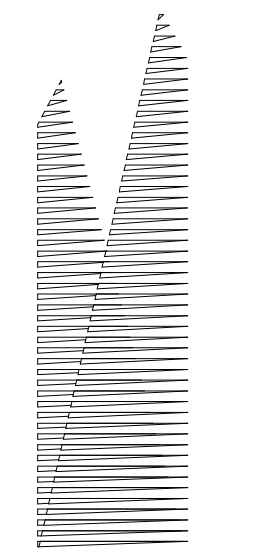
**1 ELEVATION AT GRID LINE B**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE B**  
1/8" = 1'-0"







Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

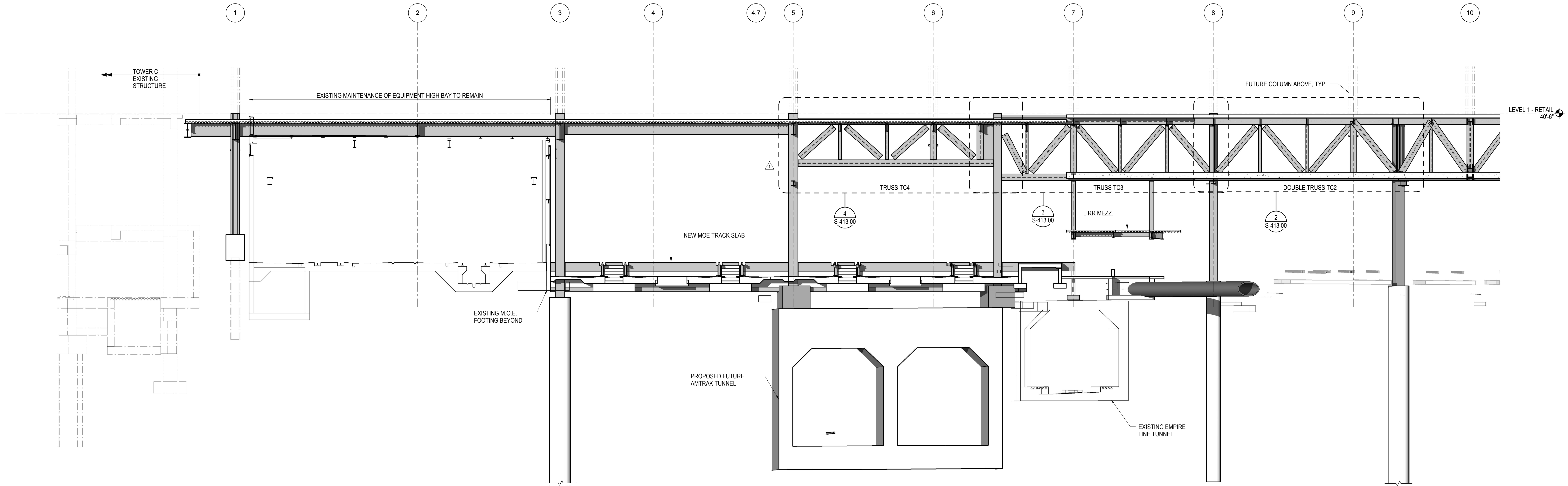
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York, 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

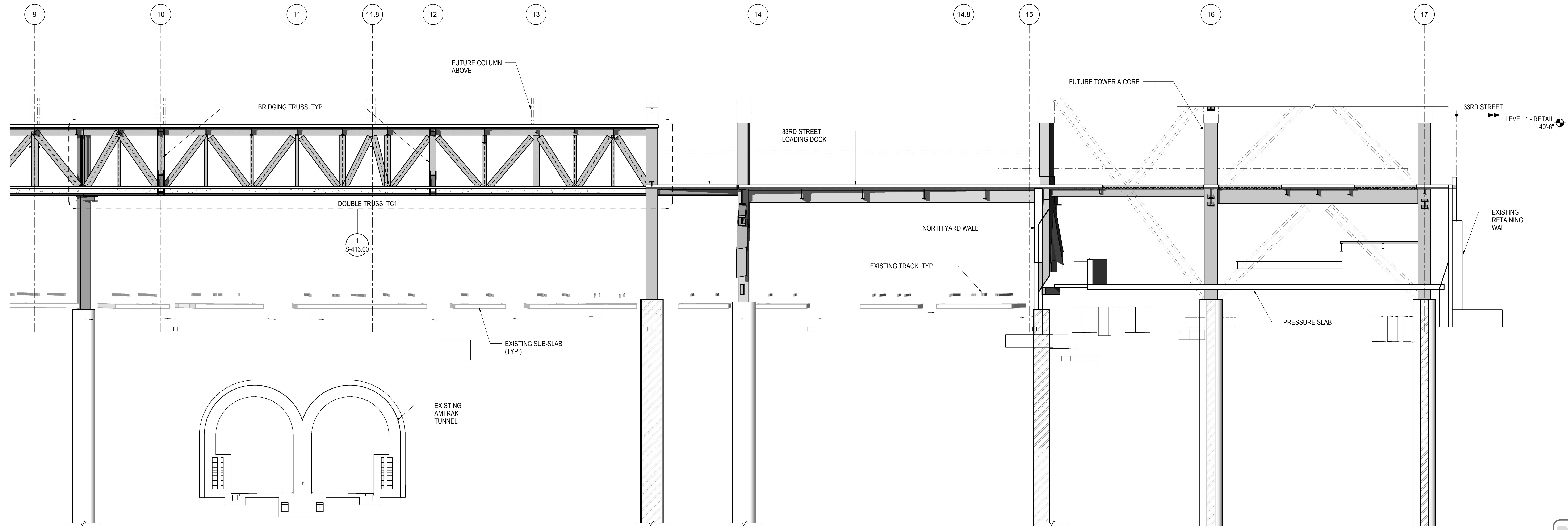
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
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77 Water Street  
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Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



**1 ELEVATION AT GRID LINE C**  
1/8" = 1'-0"

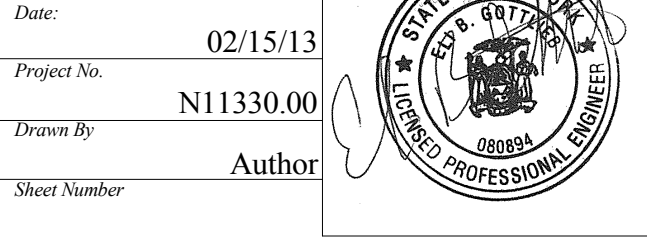


**2 ELEVATION AT GRID LINE C**  
1/8" = 1'-0"

NYC DOB FILING	12/4/2013
LIRR - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DLQ2 PHASE 1 STRUCTURAL UPDATE	1/1/2013
NYC DOB FILING	10/4/2013
Δ - DLQ1 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE 1 FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. Plan

**Damian Titus**  
APPROVED  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub

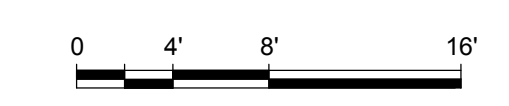


**HYE - PL - S-254.00**

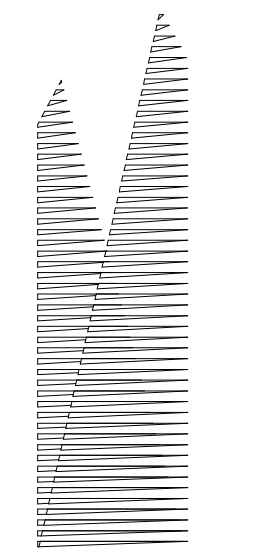
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Drawing Number / B/S/C/S Drawing Number  
**S-254.00**

SHEET 52 OF 201







Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
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Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

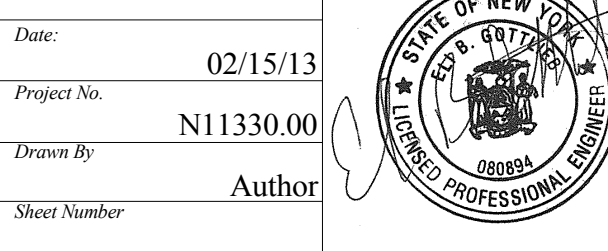
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
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Tel: 212.266.8300 Fax: 212.571.6825

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LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL SUBMISSION	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ DLO2 PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ DLO1 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

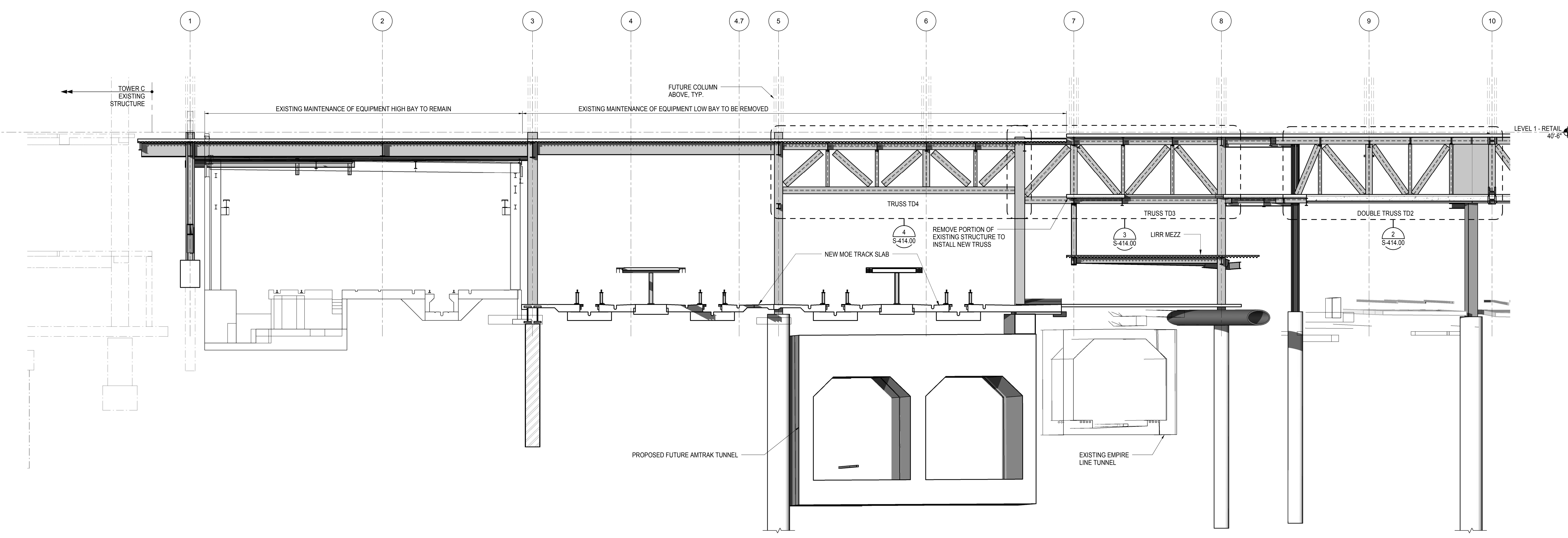
Rev. Description



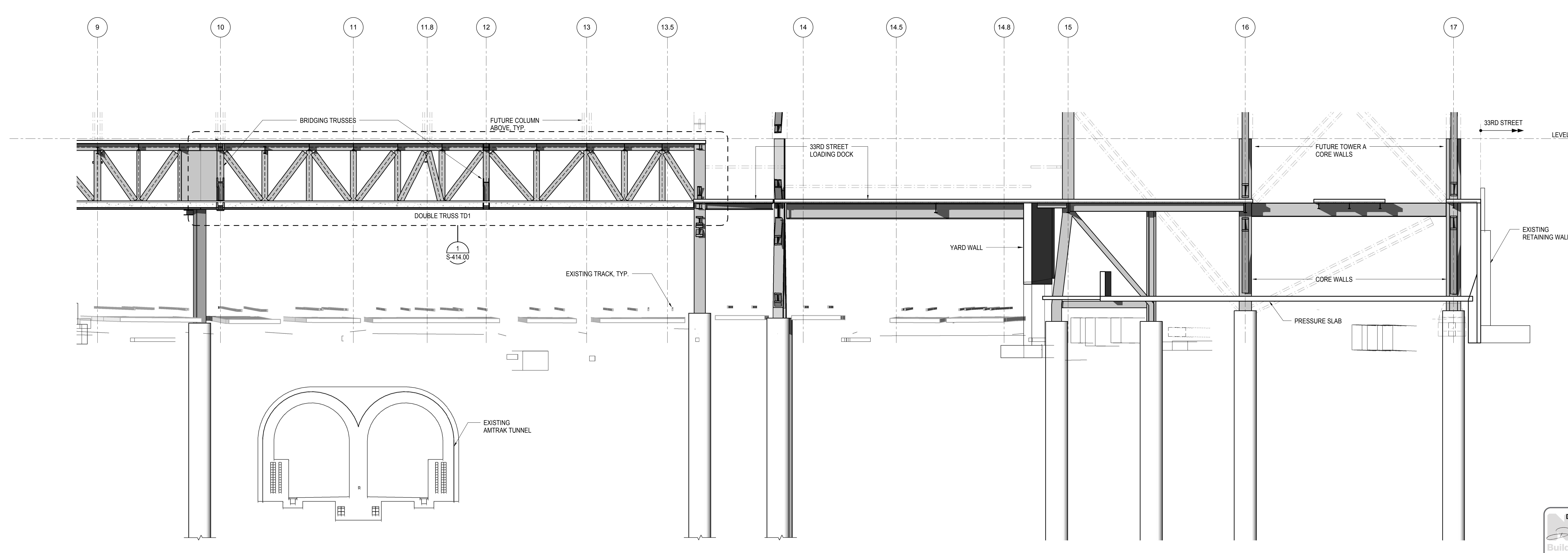
**HYE - PL - S-255.00**

**ELEVATIONS AT GRID LINE D**

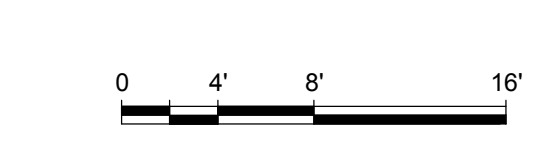
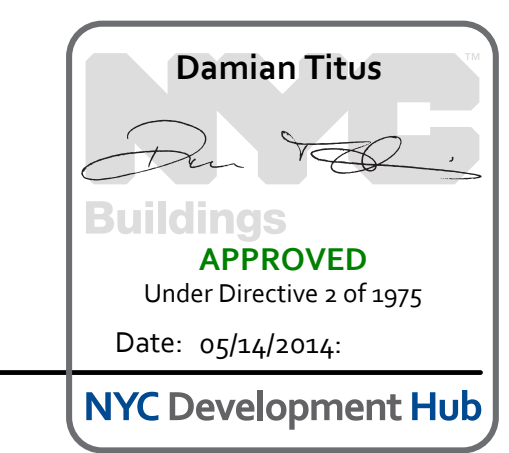
Drawing Number / B/S/C/S Drawing Number  
**S-255.00**



**1 ELEVATION AT GRID LINE D**  
1/8" = 1'-0"

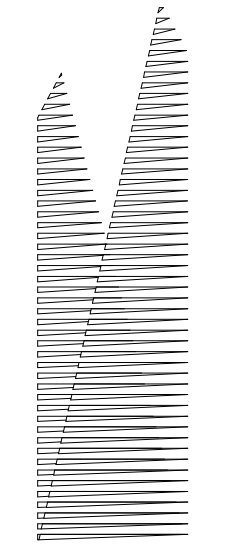


**2 ELEVATION AT GRID LINE D**  
1/8" = 1'-0"



S-255.00  
11/22/2013 4:10:00 PM  
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Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510  
Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

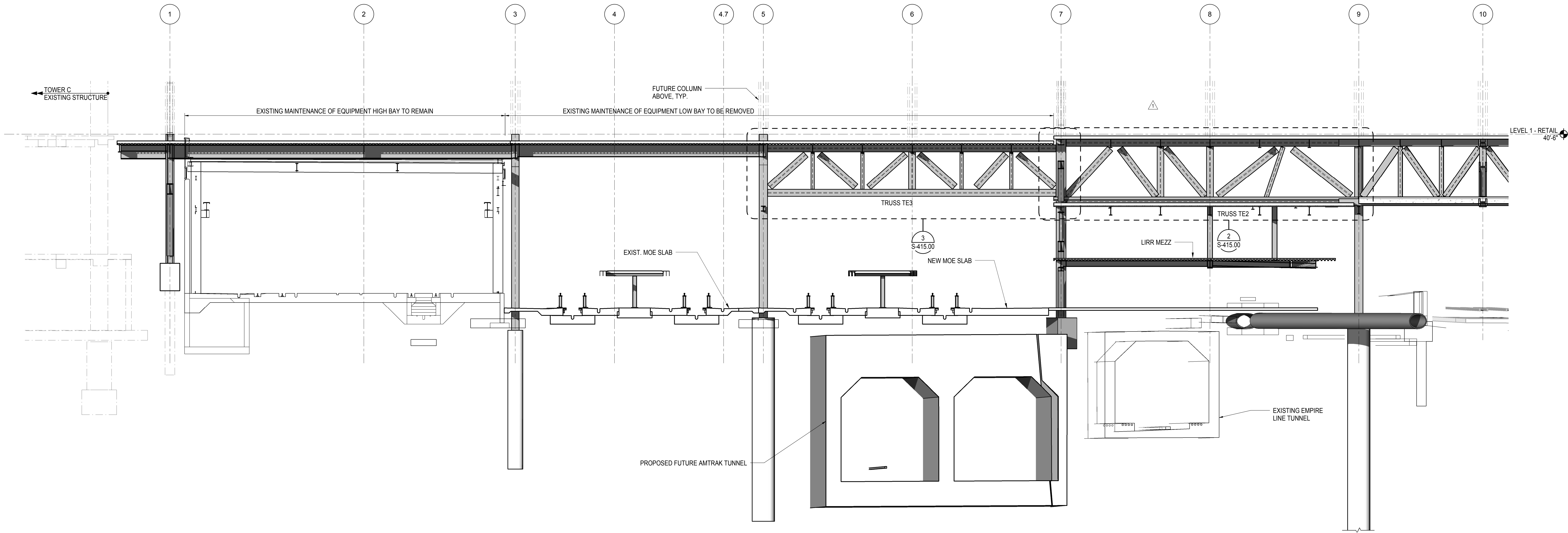
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

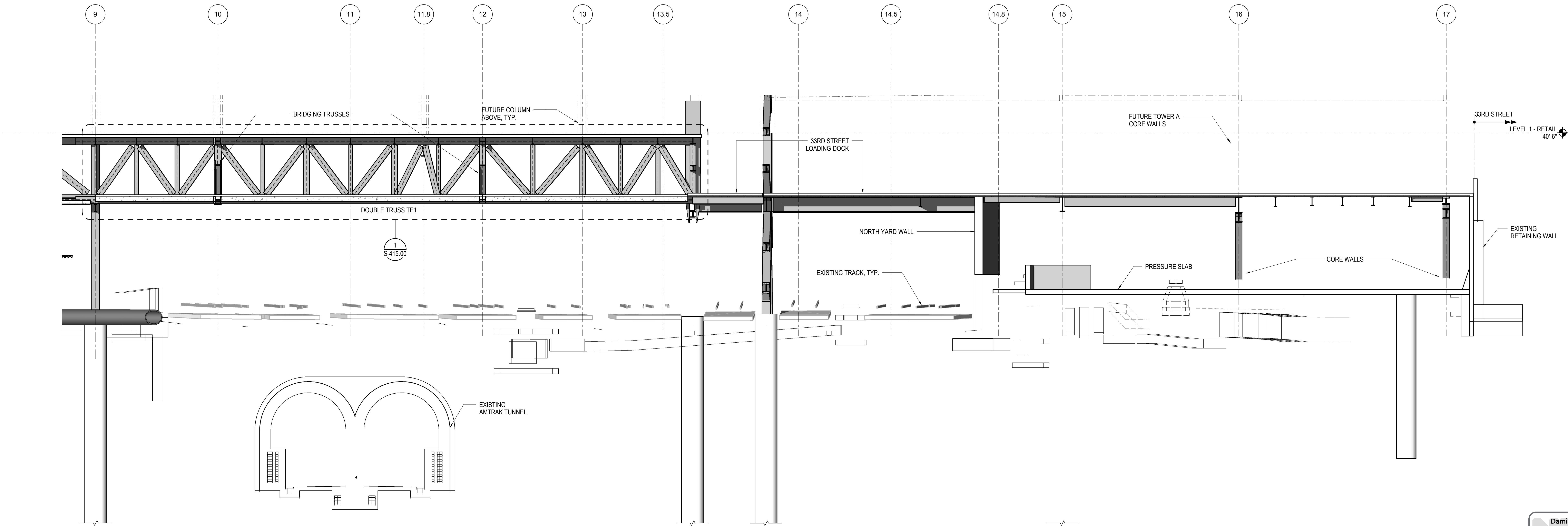
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



**1 ELEVATION AT GRID LINE E**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE E**  
1/8" = 1'-0"

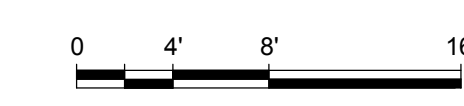
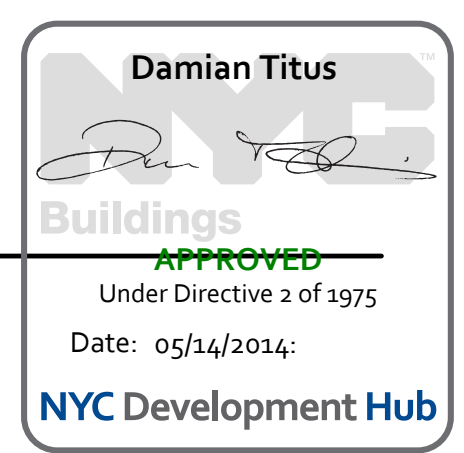
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L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T PLATFORM SUBMISSION	
Δ, DL02 PHASE I STRUCTURAL UPDATE	1/1/2013
NYC DOB FILING	10/4/2013
Δ, DL01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. Description

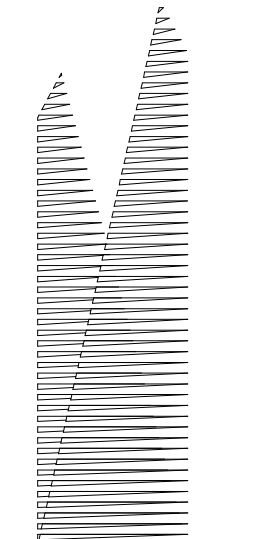
Date	02/15/13
Project No.	N11330.00
Drawn By	Author
Issue Number	

**HYE - PL - S-256.00**  
**ELEVATION AT GRID LINE E**

Drawing Number / BSC/AS Drawing Number  
**S-256.00**  
SHEET 54 OF 201







Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Overland Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

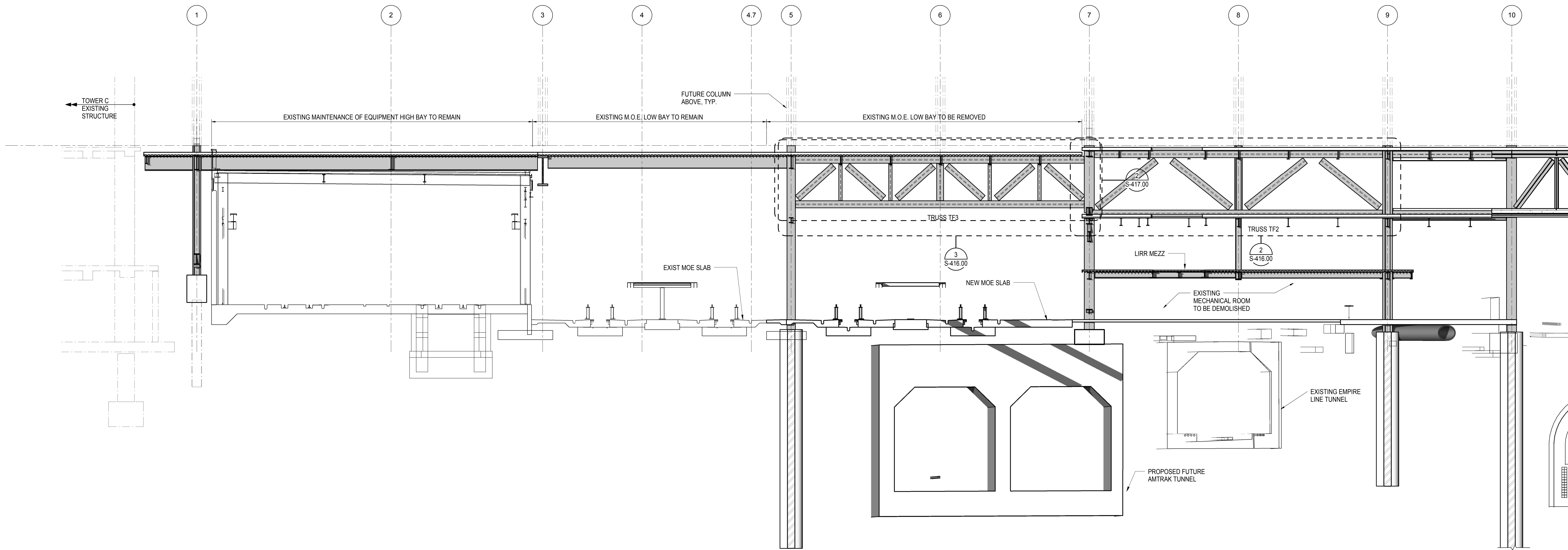
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10017  
Tel: 917.661.7800 Fax: 718.661.7801

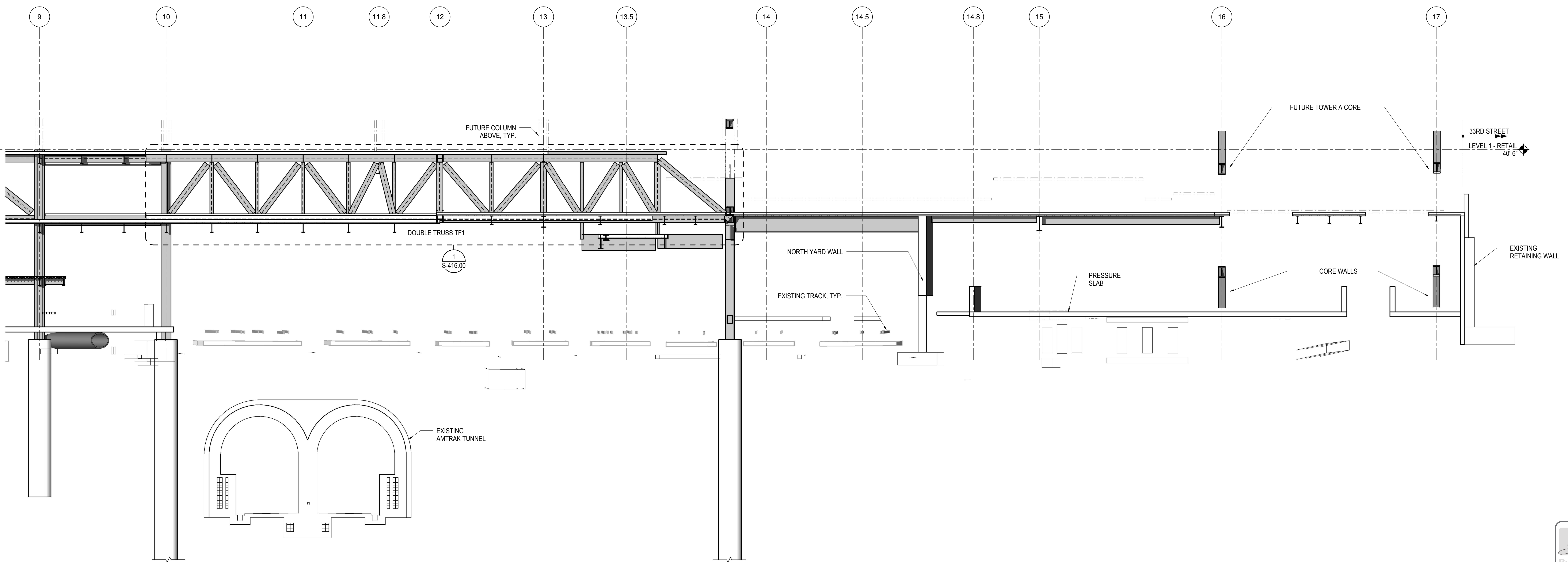
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



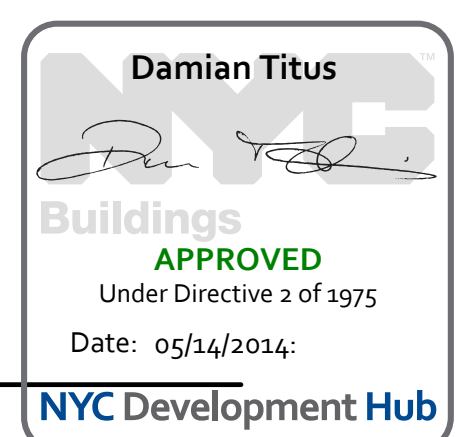
**1 ELEVATION AT GRID LINE F**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE F**  
1/8" = 1'-0"

NYC DOB FILING	12/4/2013
LIRR - PRE-FINAL 100%	11/22/2013
M&T PLATFORM SUBMISSION	
Δ DELO PHASE I STRUCTURAL UPDATE	1/11/2013
NYC DOB FILING	10/4/2013
Δ DELO PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

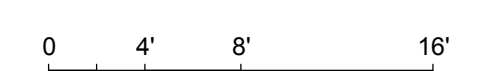
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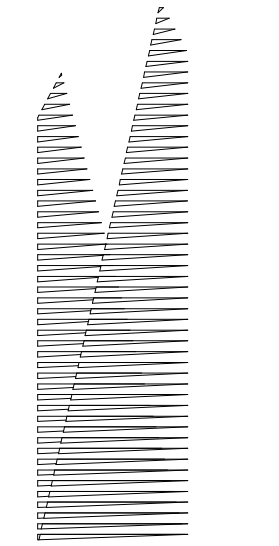
Date: 02/15/13  
Project No: N11330.00  
Title: Author

**HYE - PL - S-257.00**  
**ELEVATION AT GRID LINE F**

Drawing Number / B/S/C/D Drawing Number  
**S-257.00**







Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Owner  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

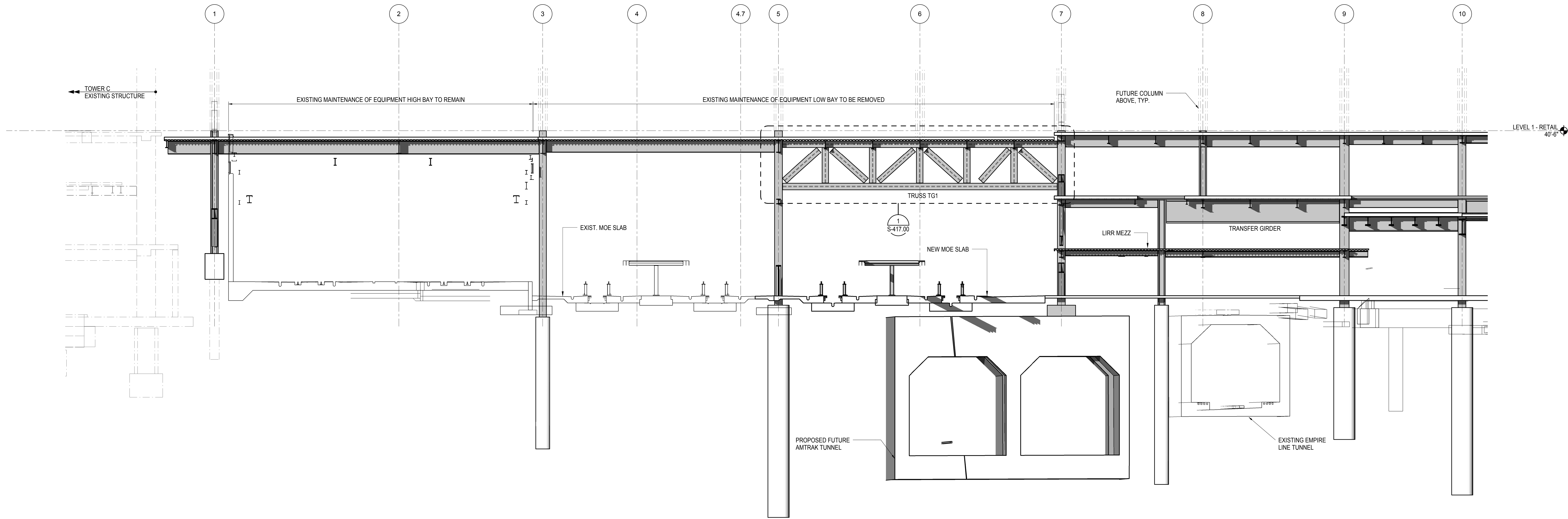
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

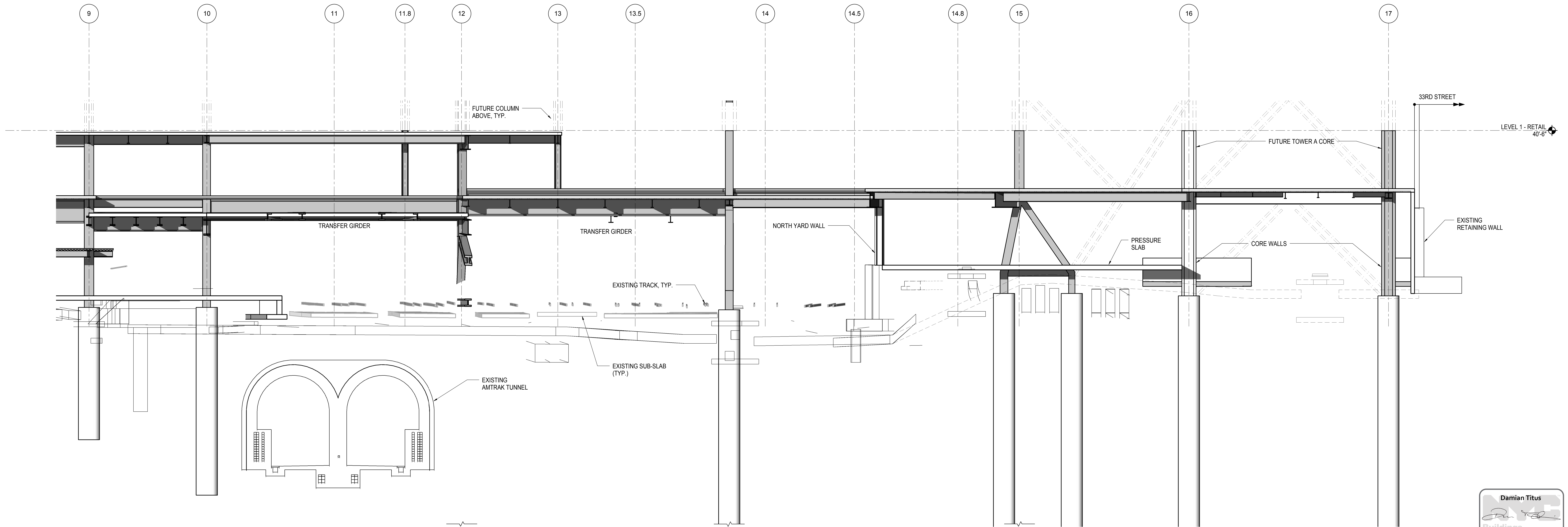
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



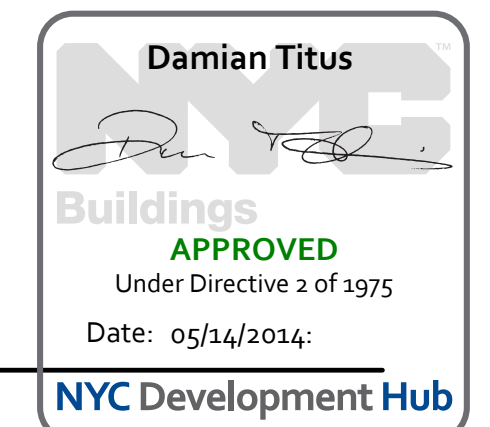
**1 ELEVATION AT GRID LINE G**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE G**  
1/8" = 1'-0"

NYC DOB FILING	12/4/2013
LIRR - PRE-FINAL SUBMISSION	11/22/2013
M&T - PLATFORM SUBMISSION	
DELTA PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
DELTA PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev

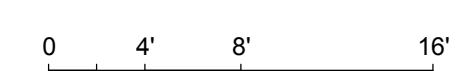


Date: 02/15/13  
Project No: N11330.00  
Title: Author

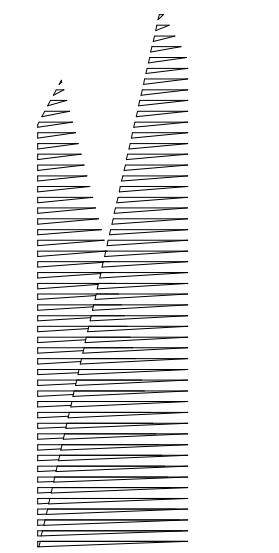
**HYE - PL - S-258.00**

**ELEVATION AT GRID LINE G**

Drawing Number / B/S/C/S Drawing Number  
**S-258.00**







Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

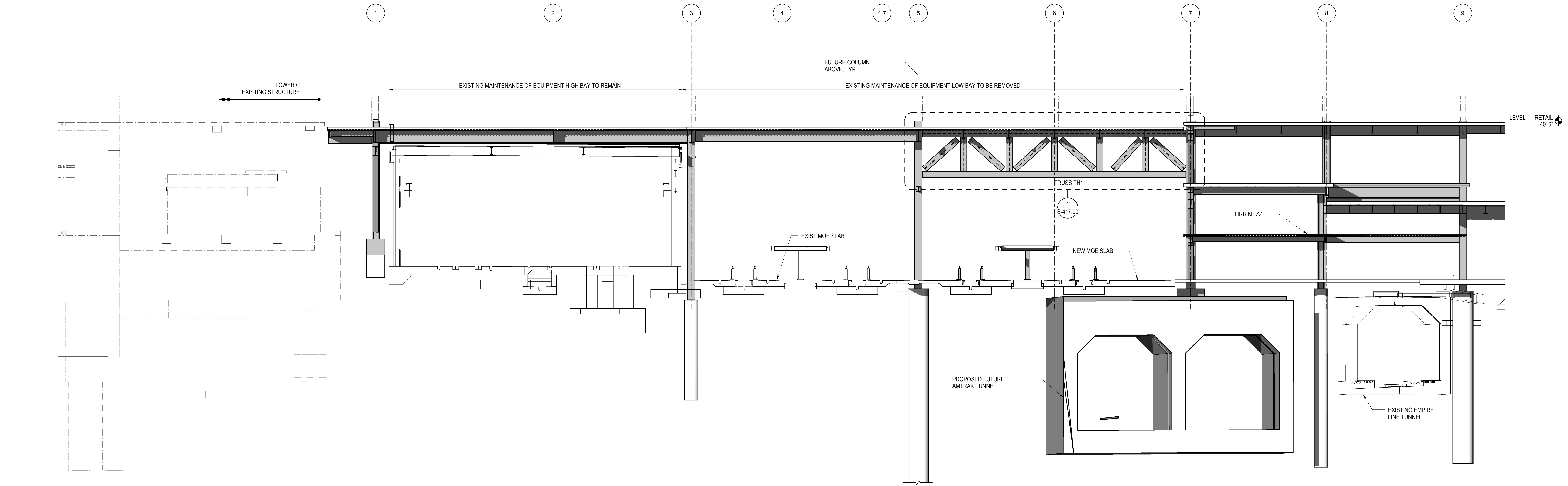
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10017  
Tel: 917.661.7800 Fax: 718.661.7801

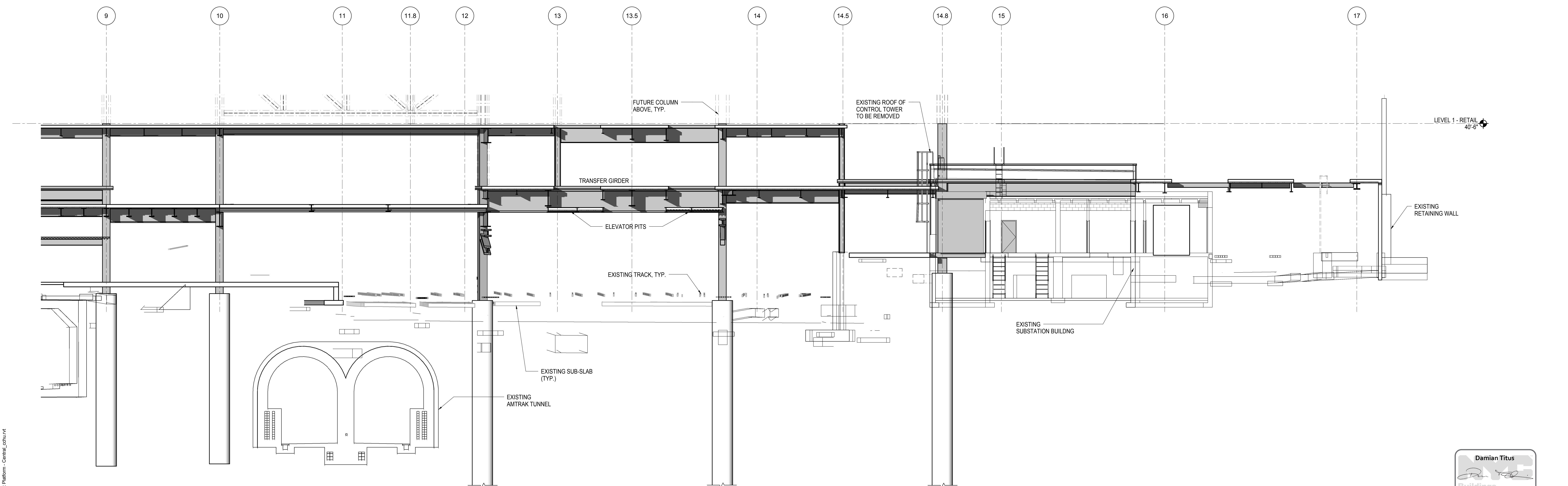
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



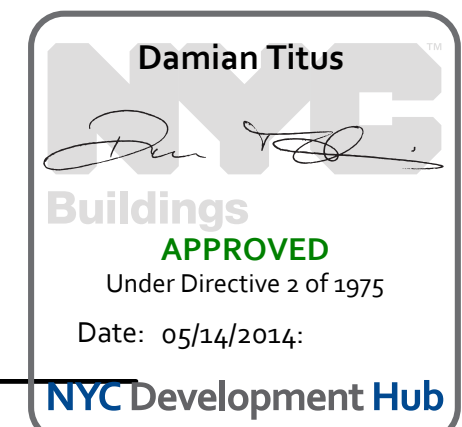
**1** ELEVATION AT GRID LINE H  
1/8" = 1'-0"



**2** ELEVATION AT GRID LINE H  
1/8" = 1'-0"

NYC DOB FILING	12/4/2013
LIRR - PRE-FINAL 100%	11/22/2013
M&E PLATFORM SUBMISSION	
Δ DEQ2 PHASE 1 STRUCTURAL UPDATE	1/1/2013
NYC DOB FILING	10/4/2013
Δ DEQ1 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% PHASE 1 FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. Plan

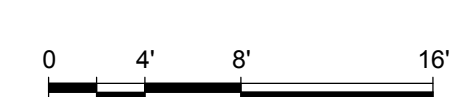


Date: 02/15/13  
Project No: N11330.00  
Title: Author  
Sheet Number: Author

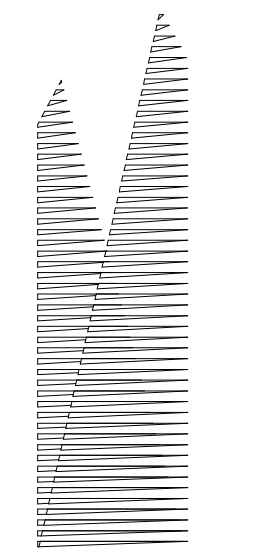
**HYE - PL - S-259.00**

**ELEVATION AT GRID LINE H**

Drawing Number / B/S/C/S Drawing Number  
**S-259.00**







Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Overland Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510  
Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

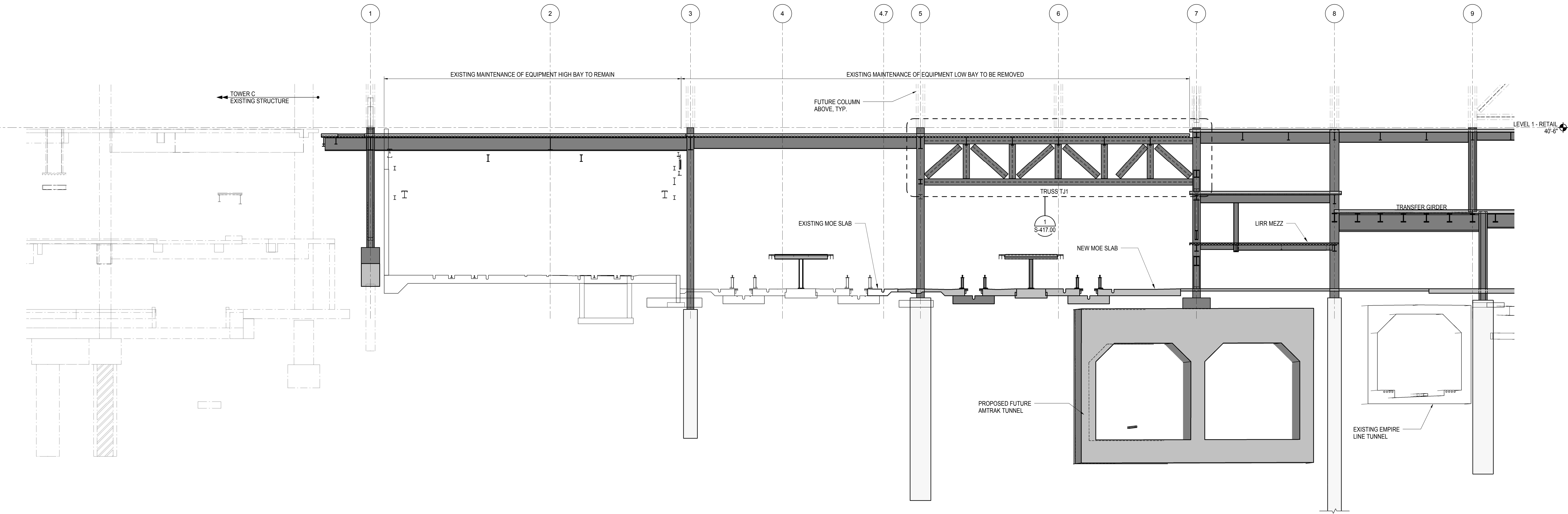
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

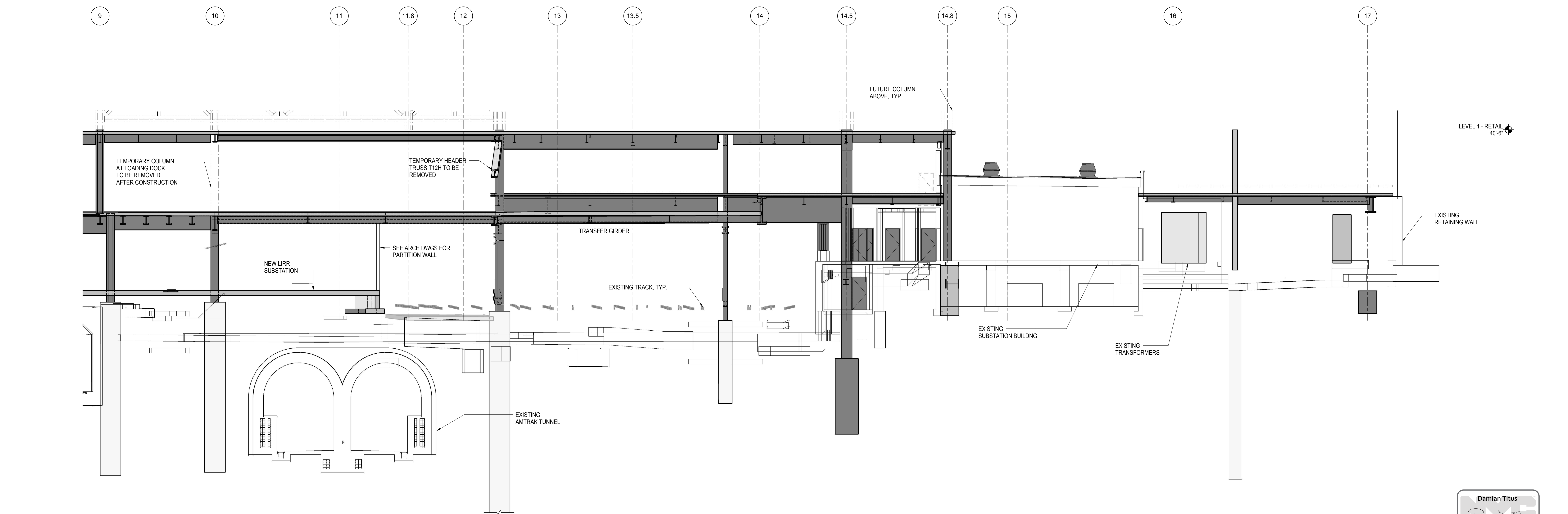
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



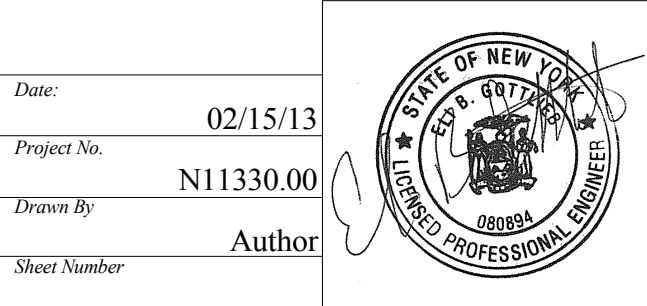
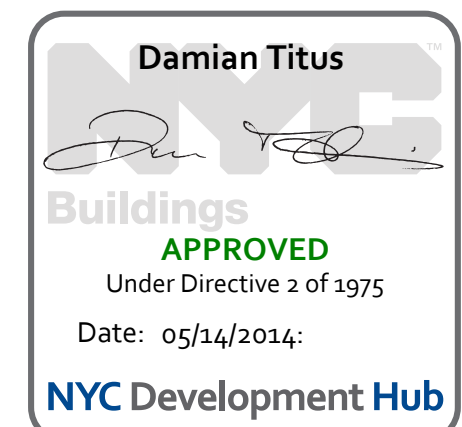
**1 ELEVATION AT GRID LINE J**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE J**  
1/8" = 1'-0"

NYC DOB FILING	12/4/2013
LIRR - PRE-FINAL 100%	11/22/2013
M&E PLATFORM SUBMISSION	
Δ D142 PHASE I STRUCTURAL UPDATE	1/11/2013
NYC DOB FILING	10/4/2013
Δ D140 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. Description

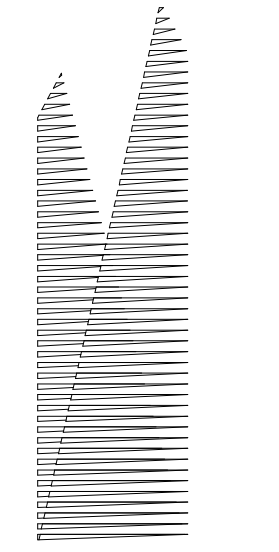


**HYE - PL - S-260.00**  
**ELEVATION AT GRID LINE J**

Drawing Number / BSC/IS Drawing Number  
**S-260.00**  
SHEET 58 OF 201







Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Owned Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

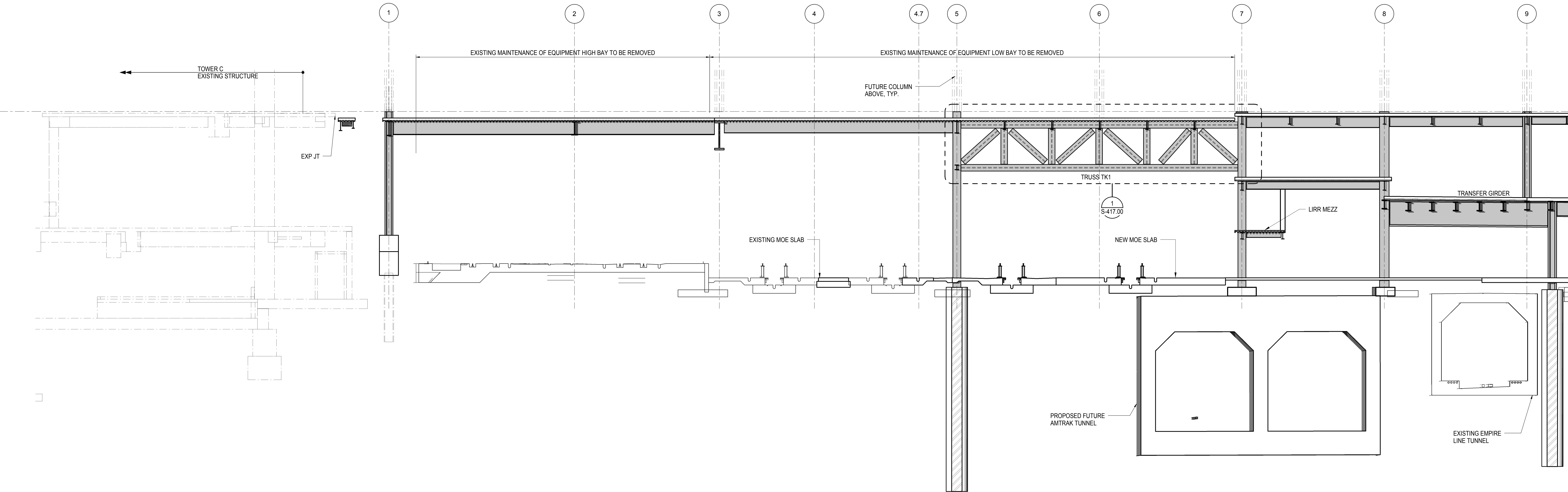
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

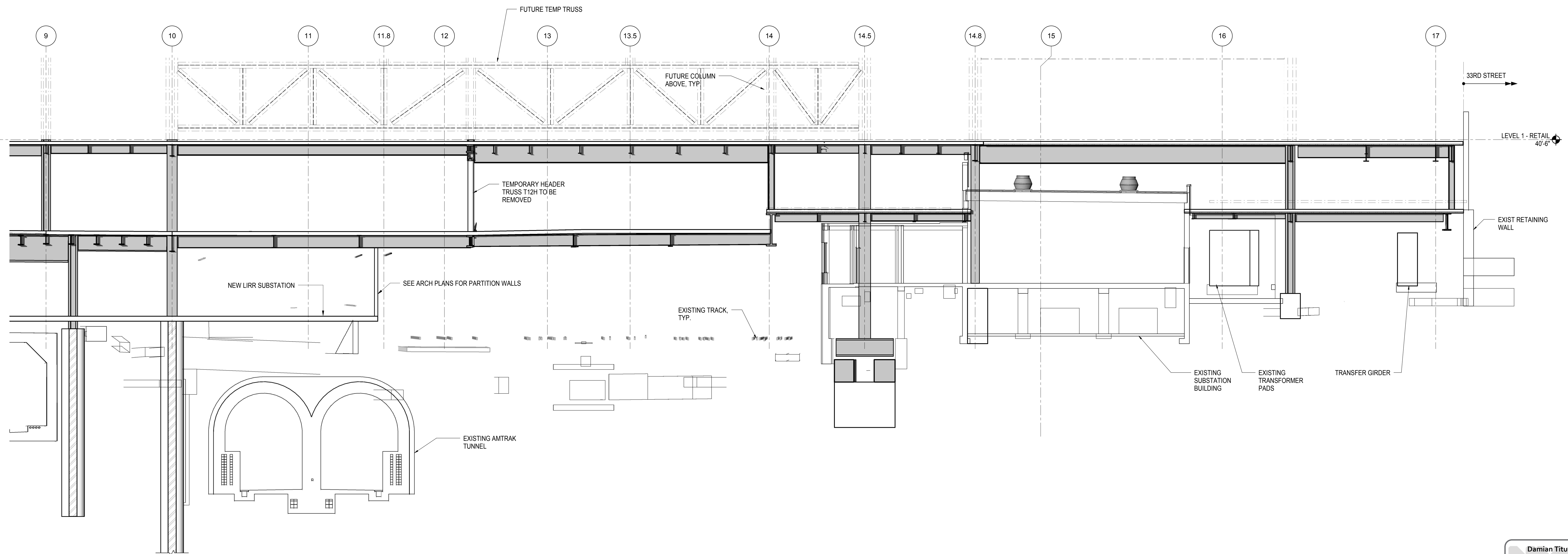
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



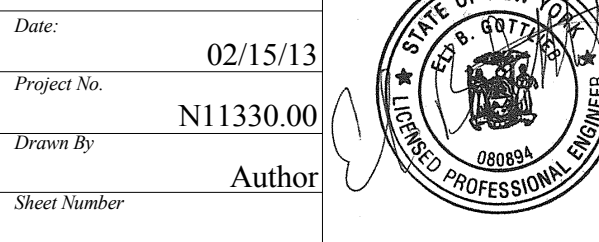
**1 ELEVATION AT GRID LINE K**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE K**  
1/8" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DL02 PHASE I STRUCTURAL UPDATE	1/11/2013
NYC DOB FILING	10/4/2013
Δ - DL01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev



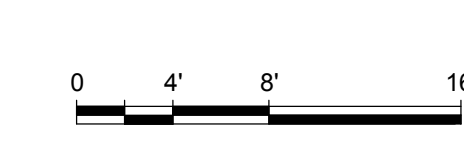
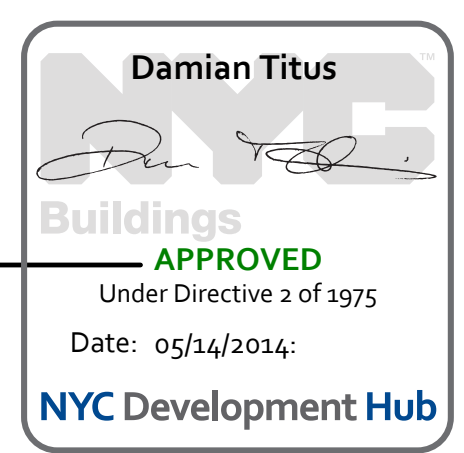
Project No: 02/15/13  
N11330.00  
Author

**HYE - PL - S-261.00**  
**ELEVATION AT GRID LINE K**

Drawing Title

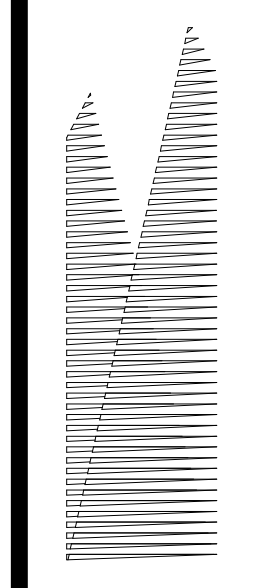
Drawing Number / B/S/C/S Drawing Number  
**S-261.00**

SHEET 59 OF 201



ELEVATION AT GRID LINE K  
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Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Overland Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

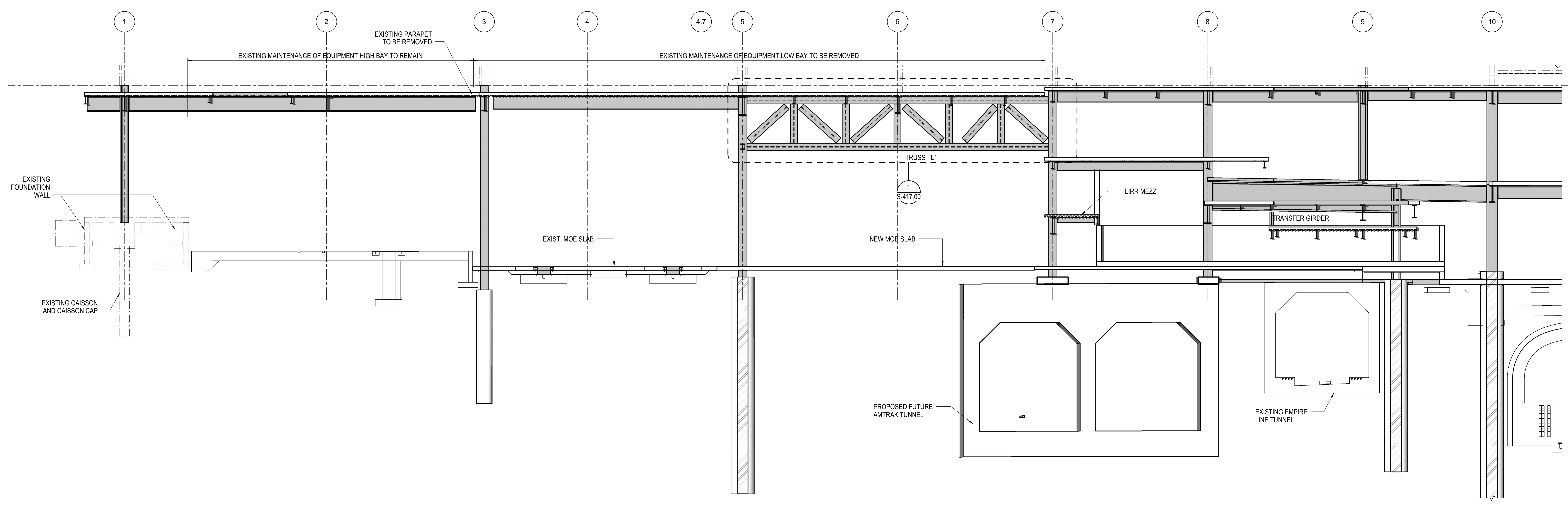
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

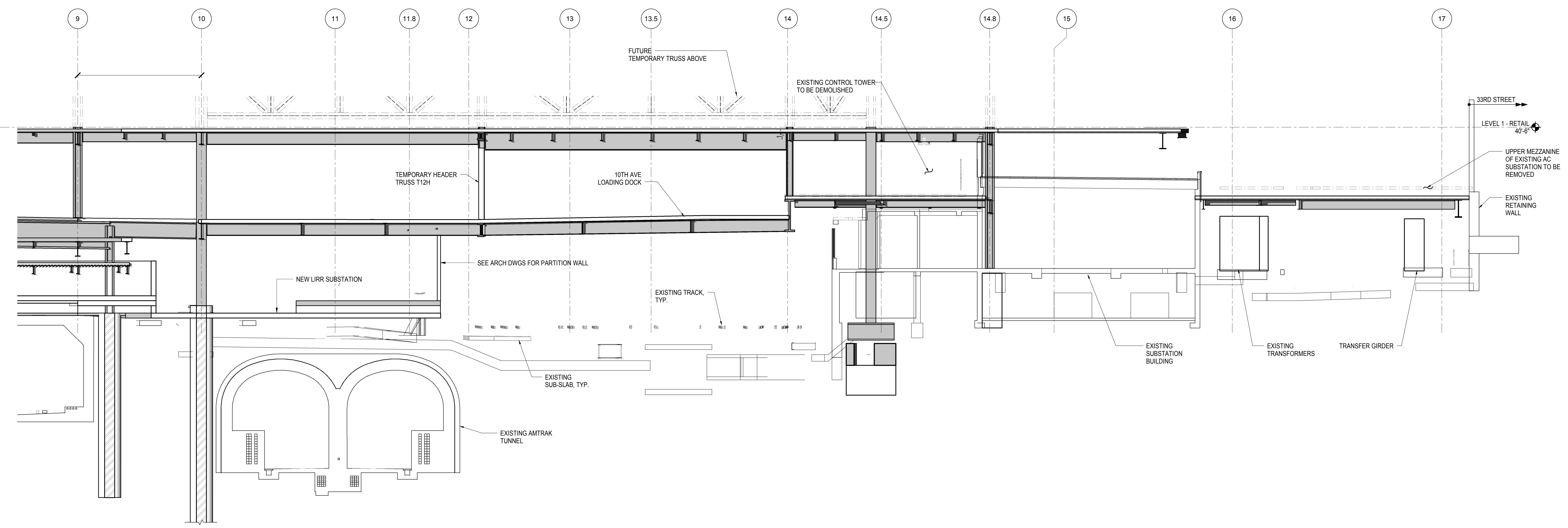
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



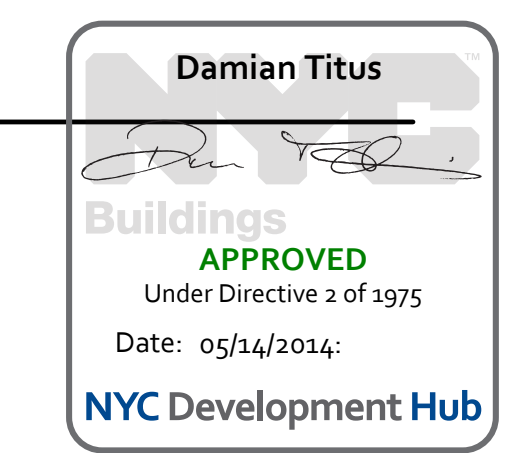
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1/8" = 1'-0"



**2 ELEVATION AT GRID LINE L**  
1/8" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DL42 PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ - DL42 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

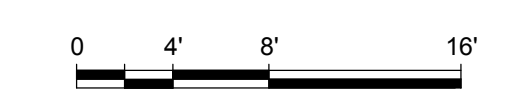
Rev. Plan



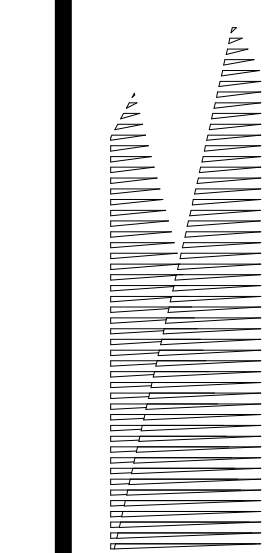
Date: 02/15/13  
Project No: N11330.00  
Title: Author  
Sheet Number: Author

**HYE - PL - S-262.00**  
**ELEVATION AT GRID LINE L**

Drawing Number / B/S/C/D Drawing Number  
**S-262.00**







**Client**  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

**Construction Manager**  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

**Architect**  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

**Structural Engineer**  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

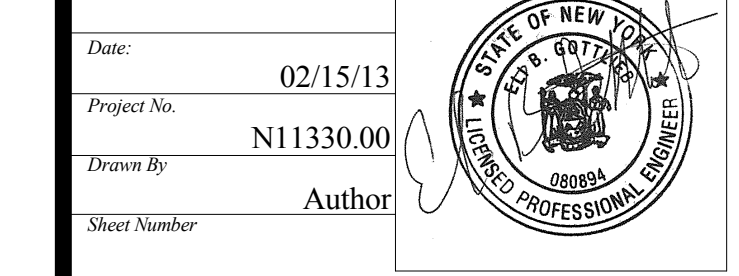
**Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security**  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

**LIRR Ventilation**  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

**LIRR Substation**  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

No.	Description	Date
NYC DOB FILING	100%	12/4/2013
L.I.R.R. - PRE-FINAL SUBMISSION		11/22/2013
M&E - PLATFORM SUBMISSION		
Δ - DL02 PHASE 1 STRUCTURAL UPDATE		1/11/2013
NYC DOB FILING		10/4/2013
Δ - DL01 PHASE 1 STRUCTURE UPDATE		9/20/2013
LIRR - 90% SUBMISSION		8/09/2013
NYC DOB FILING		6/17/2013
LIRR - 60% SUBMISSION		5/29/2013
LIRR - 60% - PHASE 1 FEEDS		3/29/2013
LIRR - 30% SUBMISSION		2/15/2013

Rev. Plan

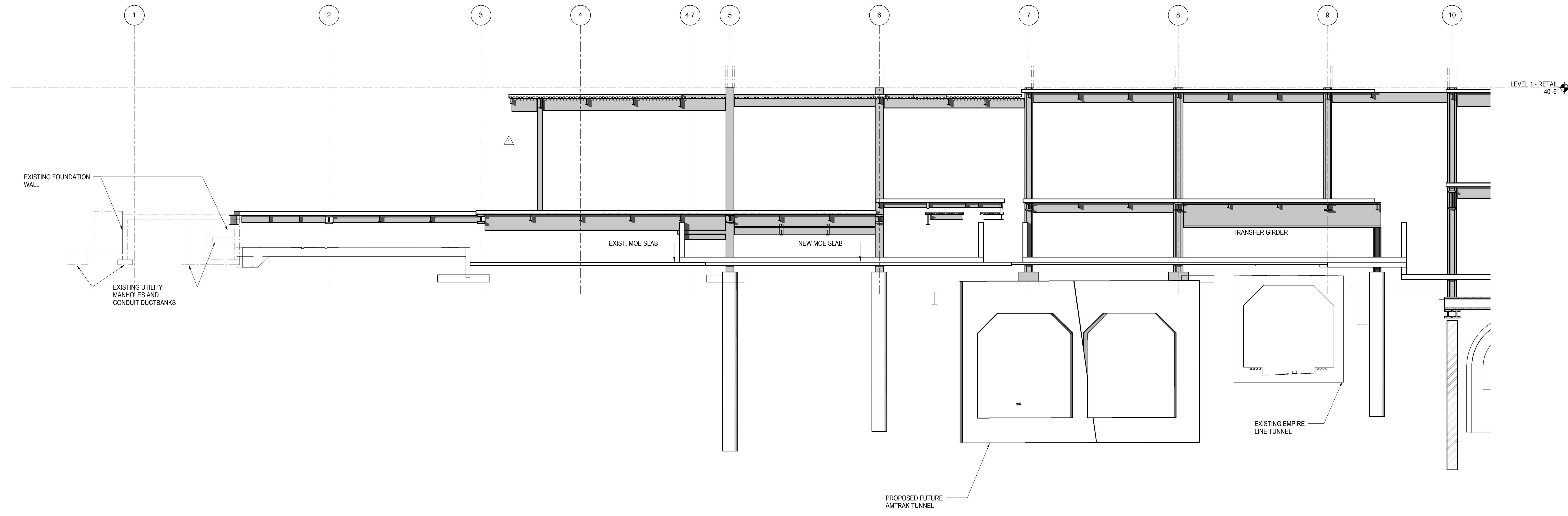


**HYE - PL - S-263.00**

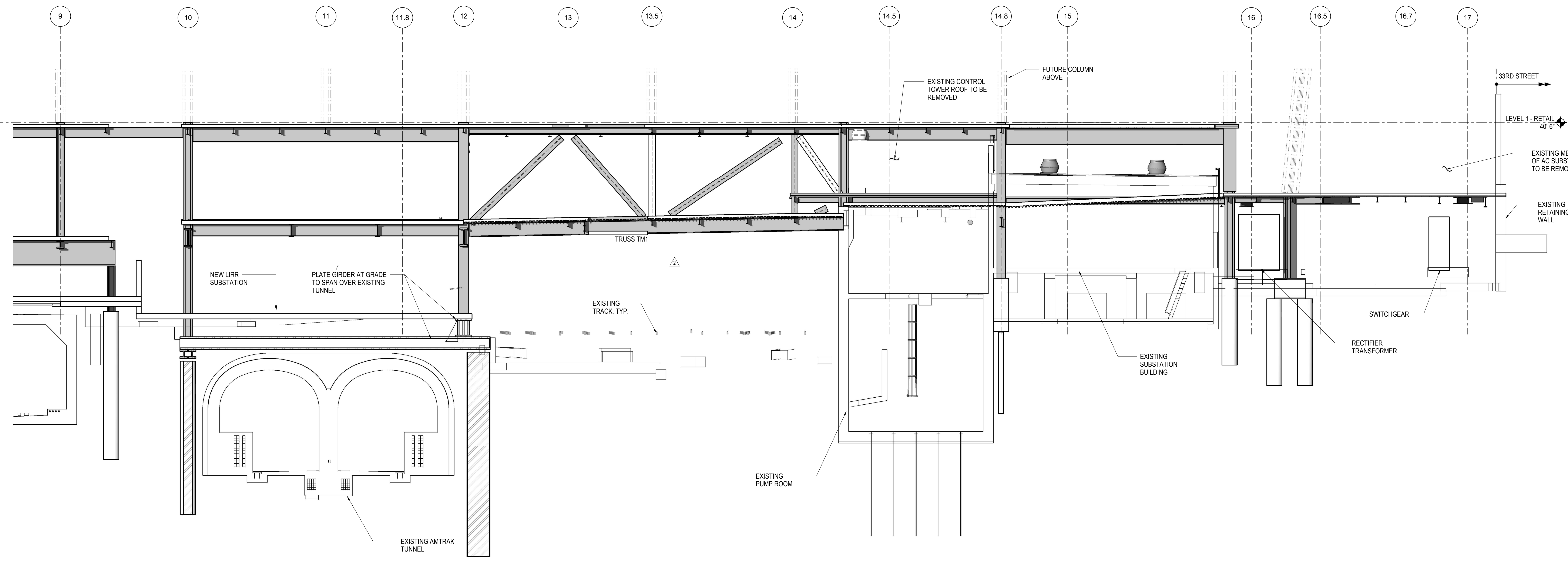
**ELEVATION AT GRID LINE M**

Drawing Number / B.S.C.A.S. Drawing Number  
**S-263.00**

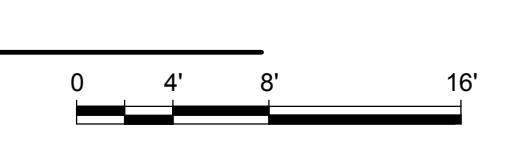
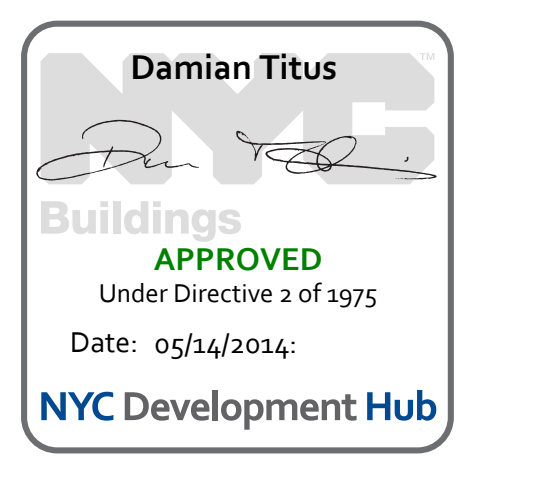
SHEET 61 OF 201



**1 ELEVATION AT GRID LINE M**  
1/8" = 1'-0"



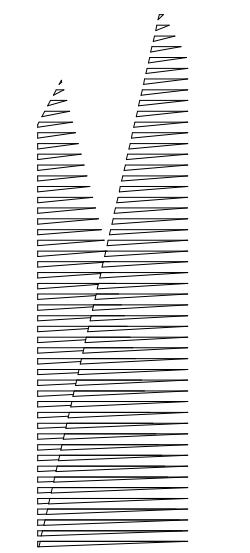
**2 ELEVATION AT GRID LINE M**  
1/8" = 1'-0"











Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Owned Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

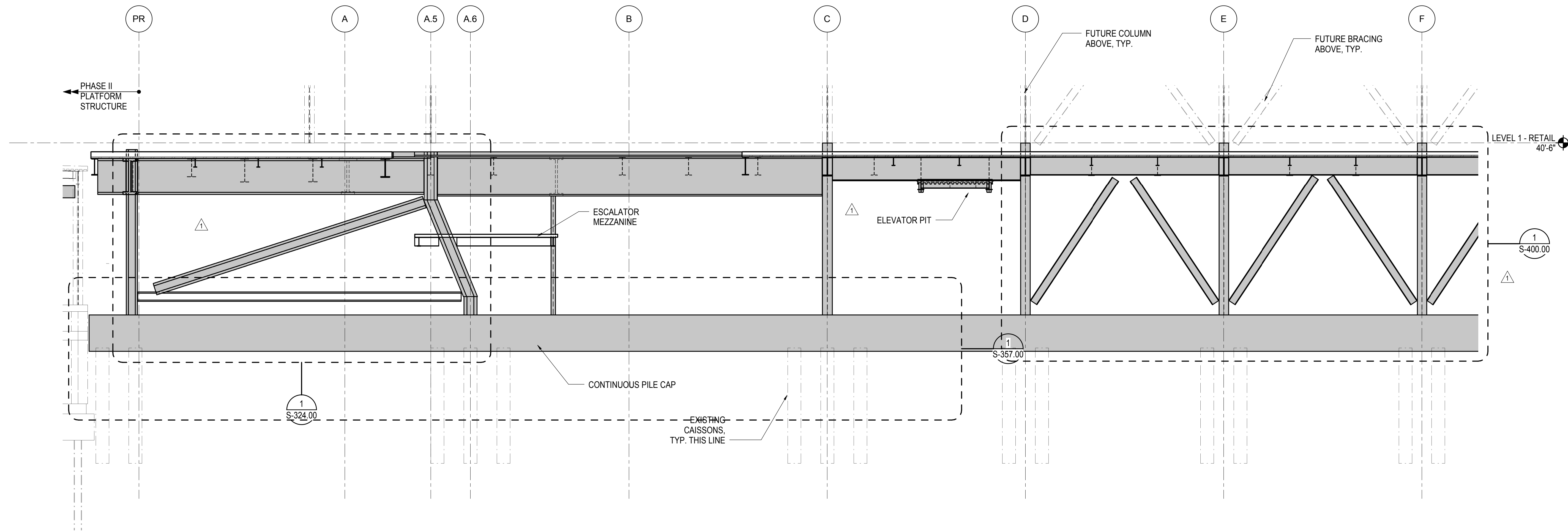
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

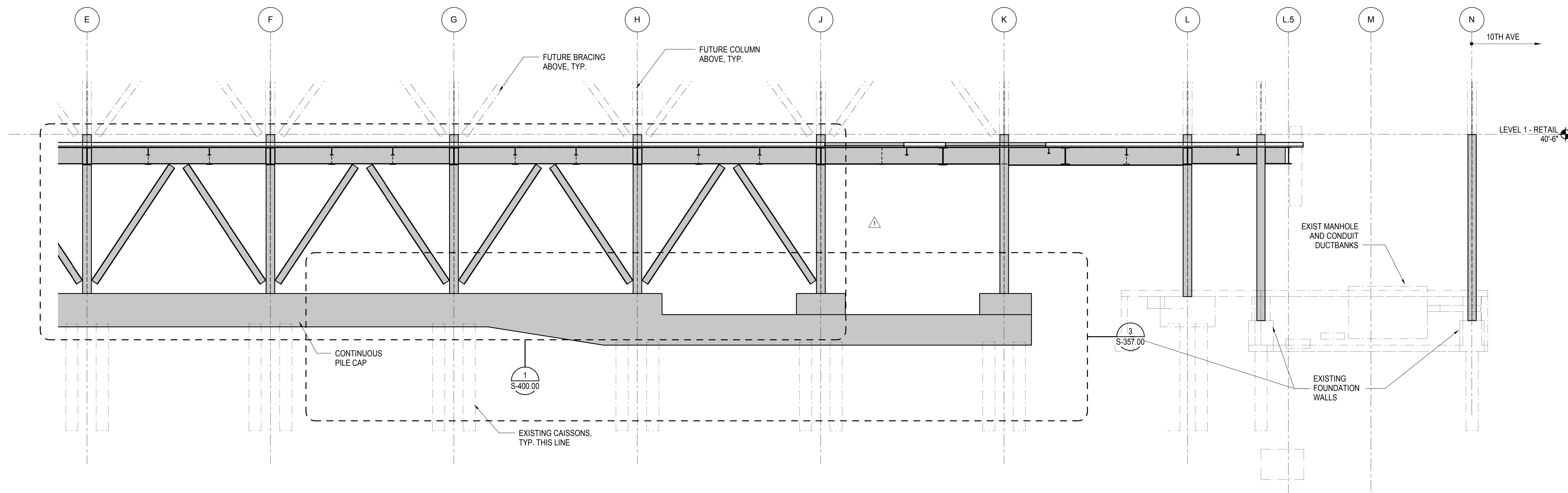
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



**1 ELEVATION AT GRID LINE 1**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE 1**  
1/8" = 1'-0"

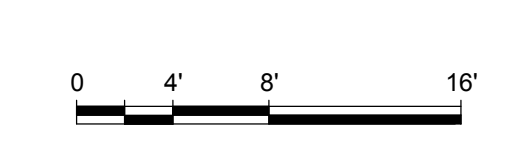
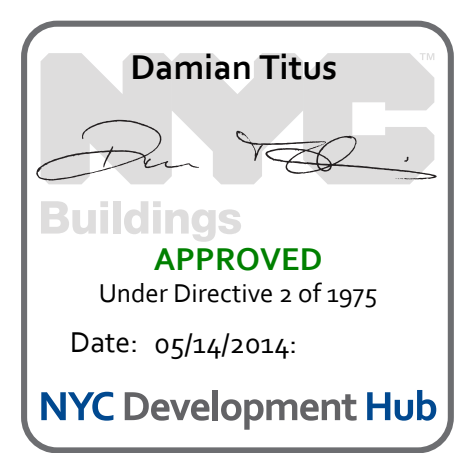
NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DL02 PHASE 1 STRUCTURAL UPDATE	1/11/2013
NYC DOB FILING	10/4/2013
Δ - DL01 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% PHASE 1 FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. Date

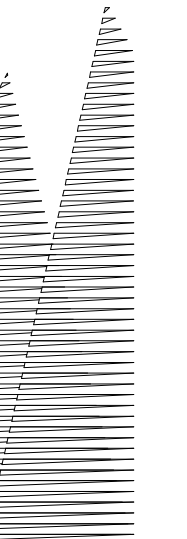
Date: 02/15/2013  
Project No: N11330.00  
Drawn By: Author  
Issue Number:

**HYE - PL - S-265.00**  
Drawing Title  
**ELEVATION AT GRID LINE 1**

Drawing Number / B/S/C/S Drawing Number  
**S-265.00**







Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

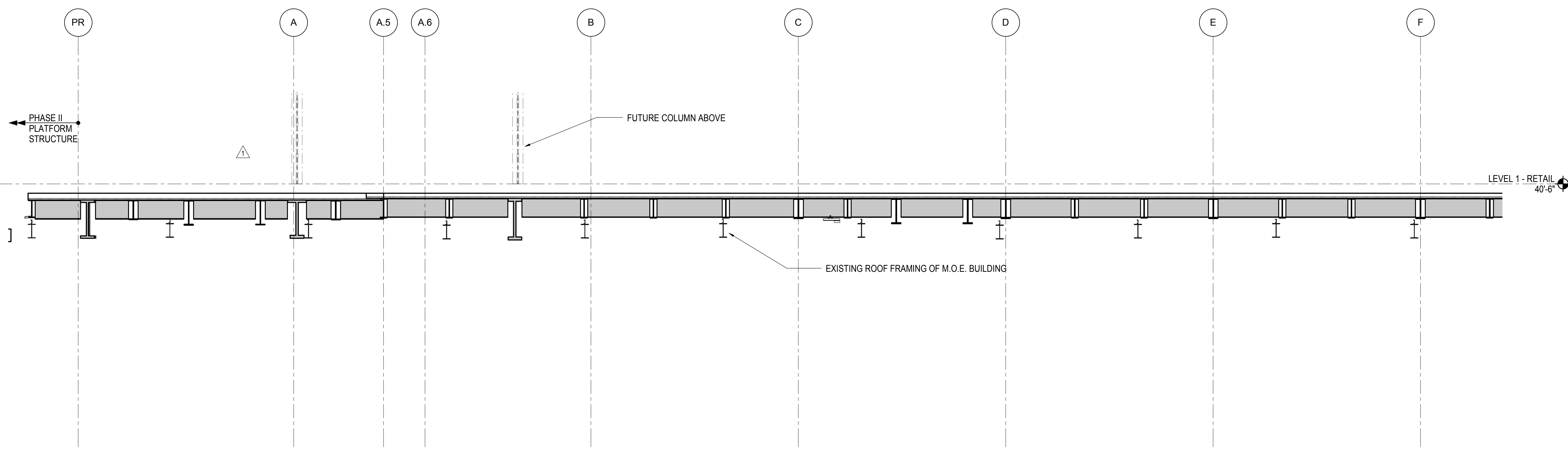
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

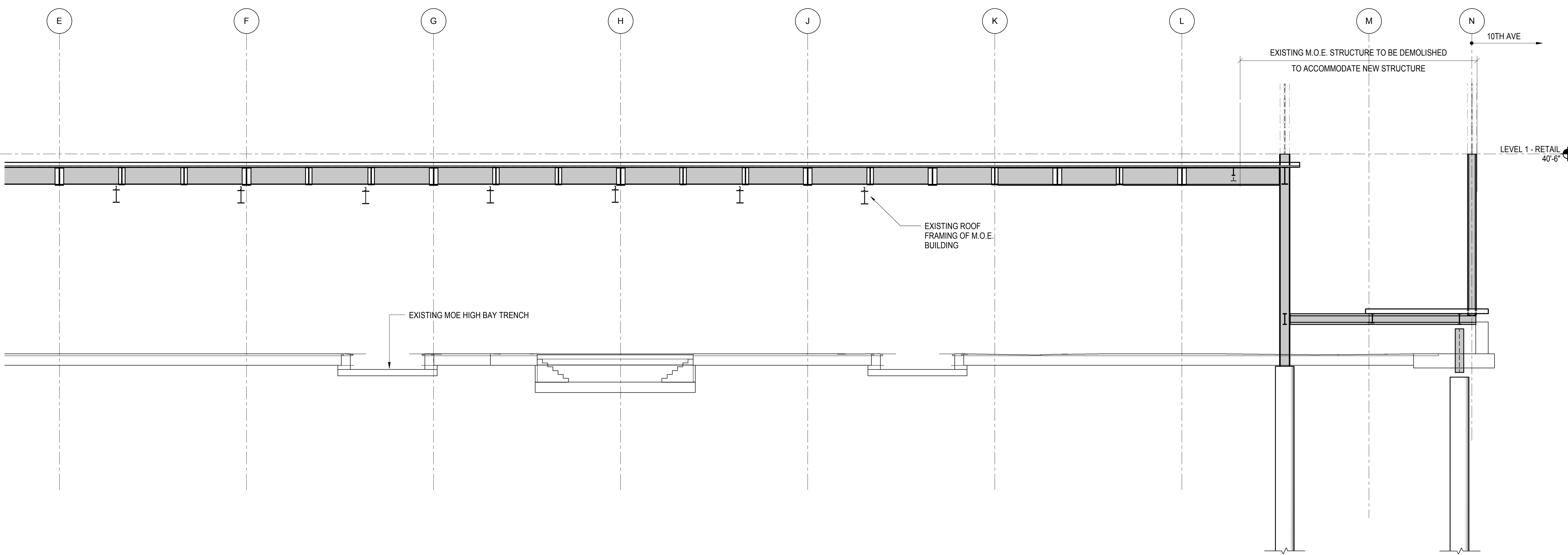
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
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**1 ELEVATION AT GRID LINE 2**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE 2**  
1/8" = 1'-0"

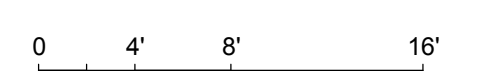
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L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&U - PLATFORM SUBMISSION	
Δ - DL02 PHASE I STRUCTURAL UPDATE	1/1/2013
NYC DOB FILING	10/4/2013
Δ - DL01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. Plan

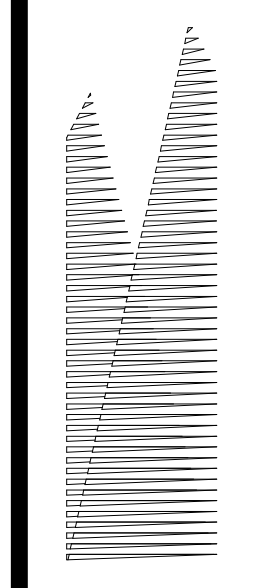
Date	02/15/2013
Project No.	N11330.00
Drawn By	Author
Sheet Number	

**HYE - PL - S-266.00**  
Drawing Title  
**ELEVATION AT GRID LINE 2**

Drawing Number / B.S.C.A.S. Drawing Number  
**S-266.00**  
SHEET 64 OF 201







**Client**  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

**Oxford Properties Group**  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

**Construction Manager**  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

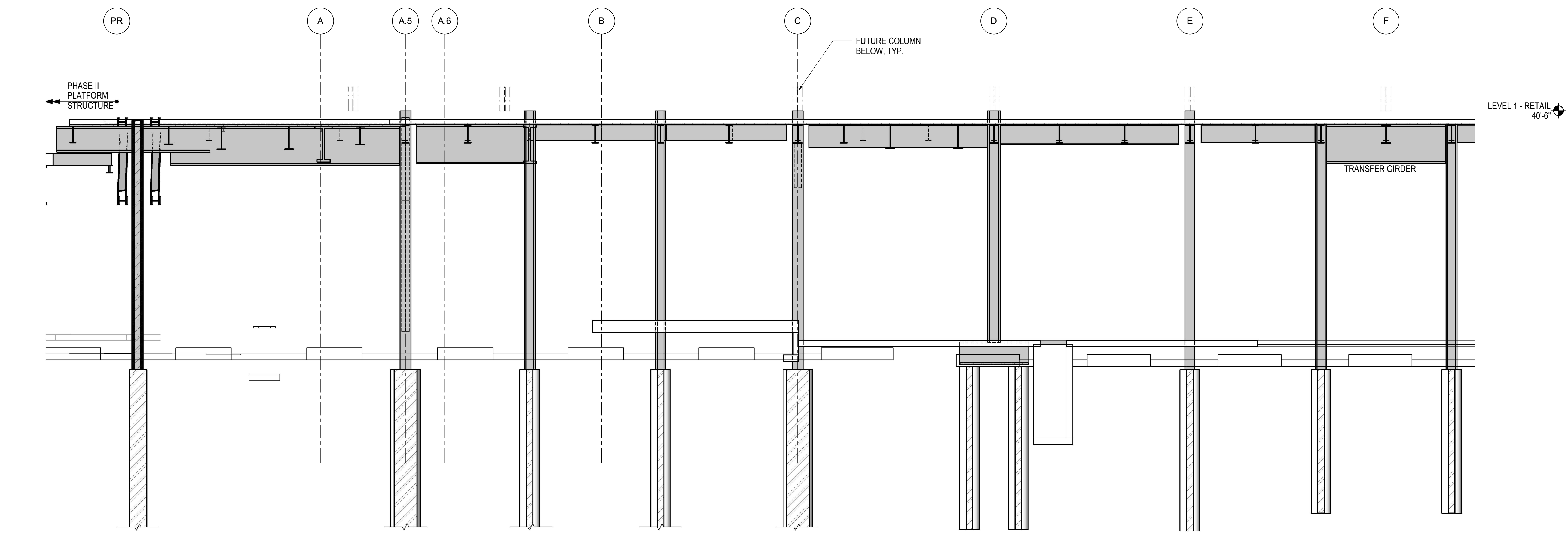
**Architect**  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

**Structural Engineer**  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

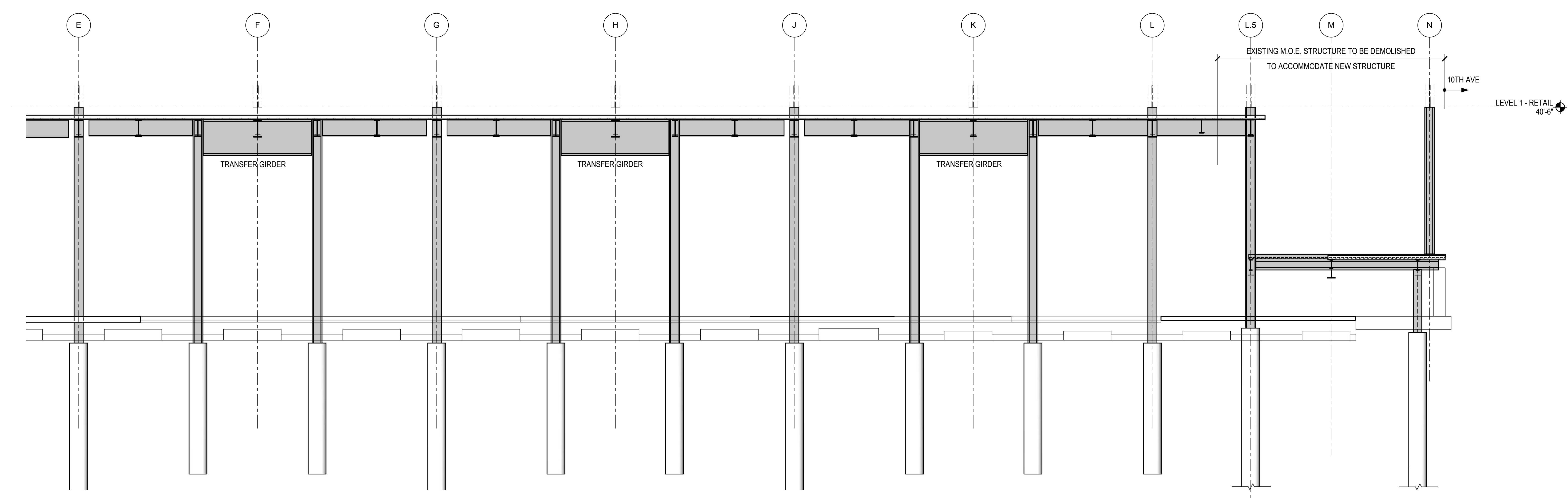
**Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security**  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

**LIRR Ventilation**  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

**LIRR Substation**  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



**1 ELEVATION AT GRID LINE 3**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE 3**  
1/8" = 1'-0"

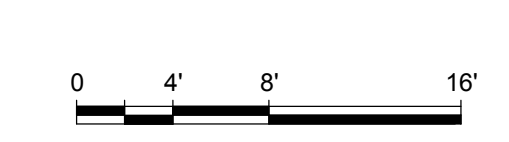
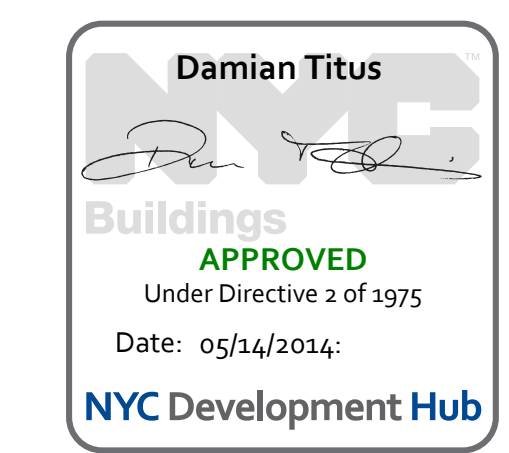
NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&U - PLATFORM SUBMISSION	
Δ - DL02 PHASE I STRUCTURAL UPDATE	1/11/2013
NYC DOB FILING	10/4/2013
Δ - DL01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. Plan

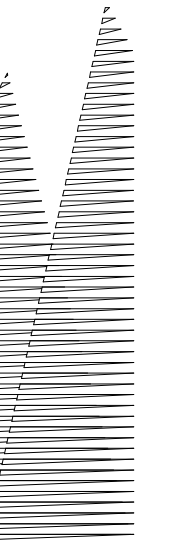
Date: 02/15/2013  
Project No: N11330.00  
Author: Author  
Sheet Number: HYE - PL - S-267.00

**ELEVATION AT GRID LINE 3**

Drawing Number / B/S/C/A/S Drawing Number  
**S-267.00**







*Client*  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

*Owner*  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

*Construction Manager*  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

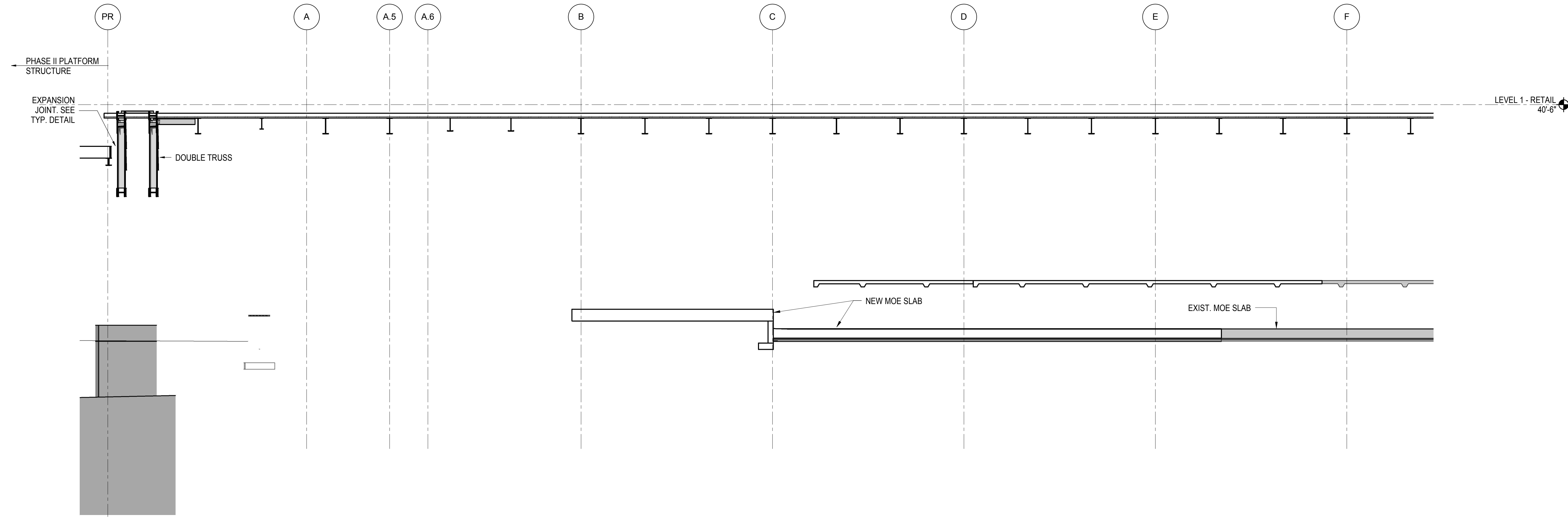
*Architect*  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

*Structural Engineer*  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

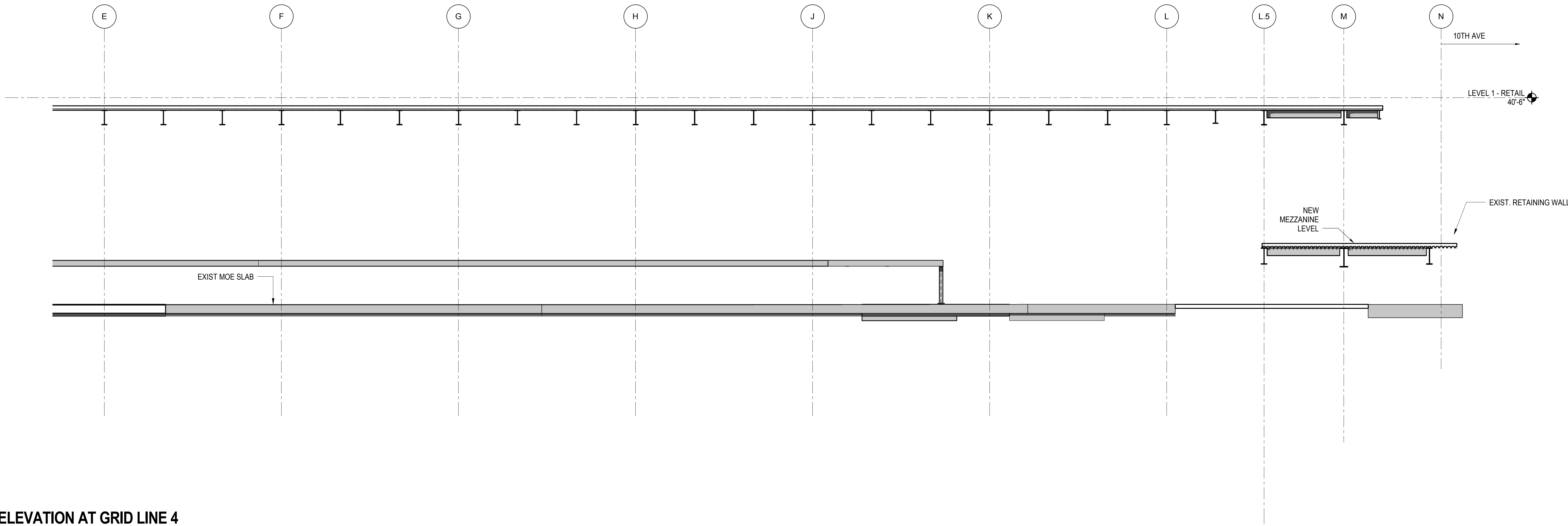
*Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Personnel Transportation Group*  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

*LIRR Ventilation*  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

*LIRR Substation*  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



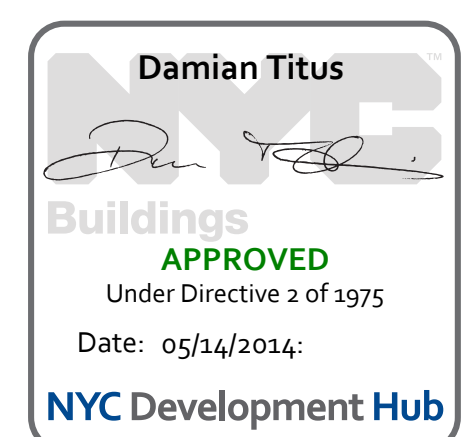
**1 ELEVATION AT GRID LINE 4**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE 4**  
1/8" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DL42 PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ - DL42 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

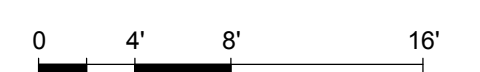
Rev. Date



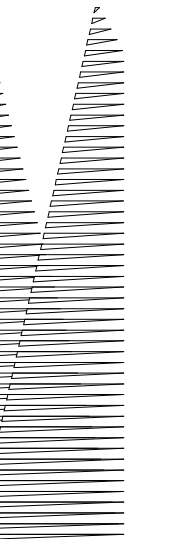
Date: 02/15/2013  
Project No: N11330.00  
Drawn By: Author  
Sheet Number

**HYE - PL - S-268.00**  
Drawing Title  
**ELEVATION AT GRID  
LINE 4**

Drawing Number / B/S/C/D Drawing Number  
**S-268.00**







*Client*  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

*Construction Manager*  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

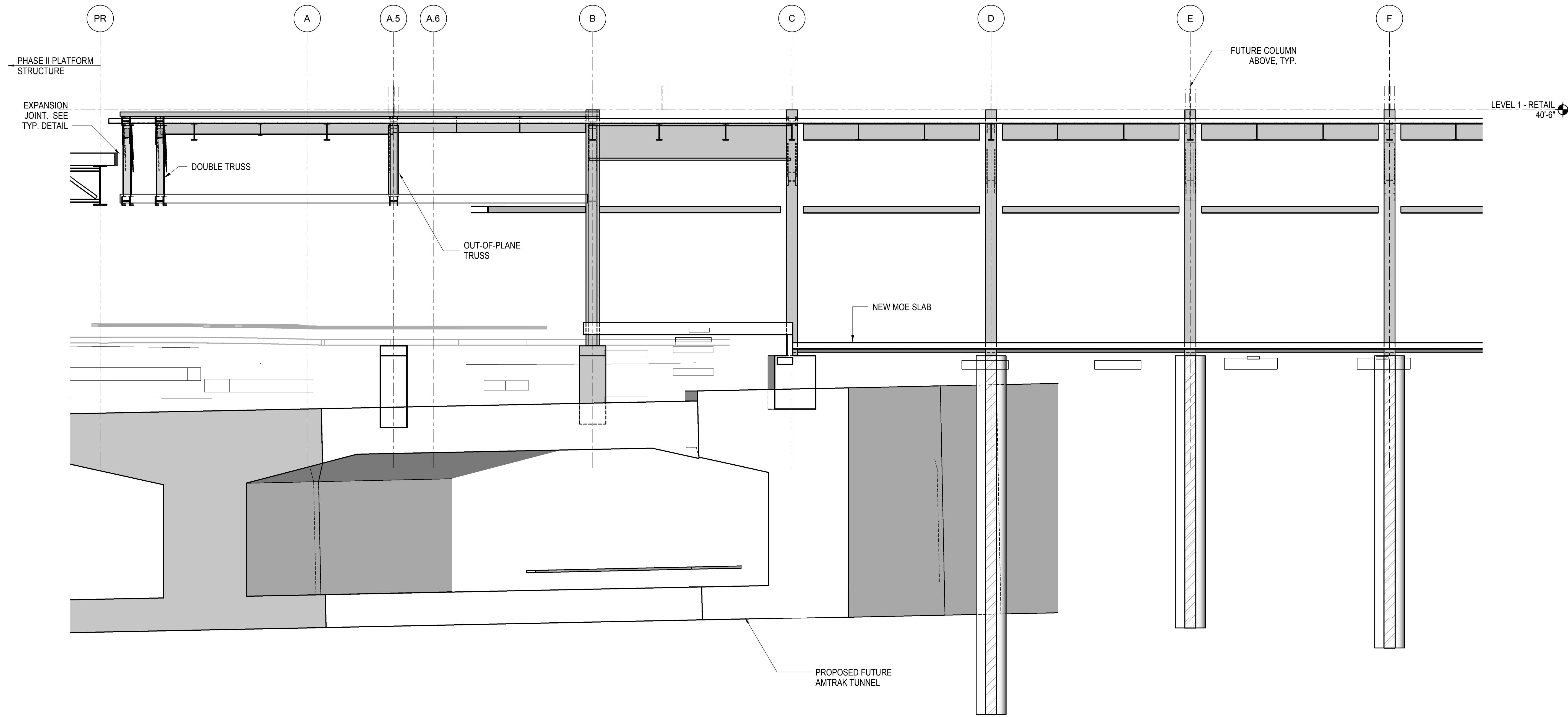
*Architect*  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

*Structural Engineer*  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

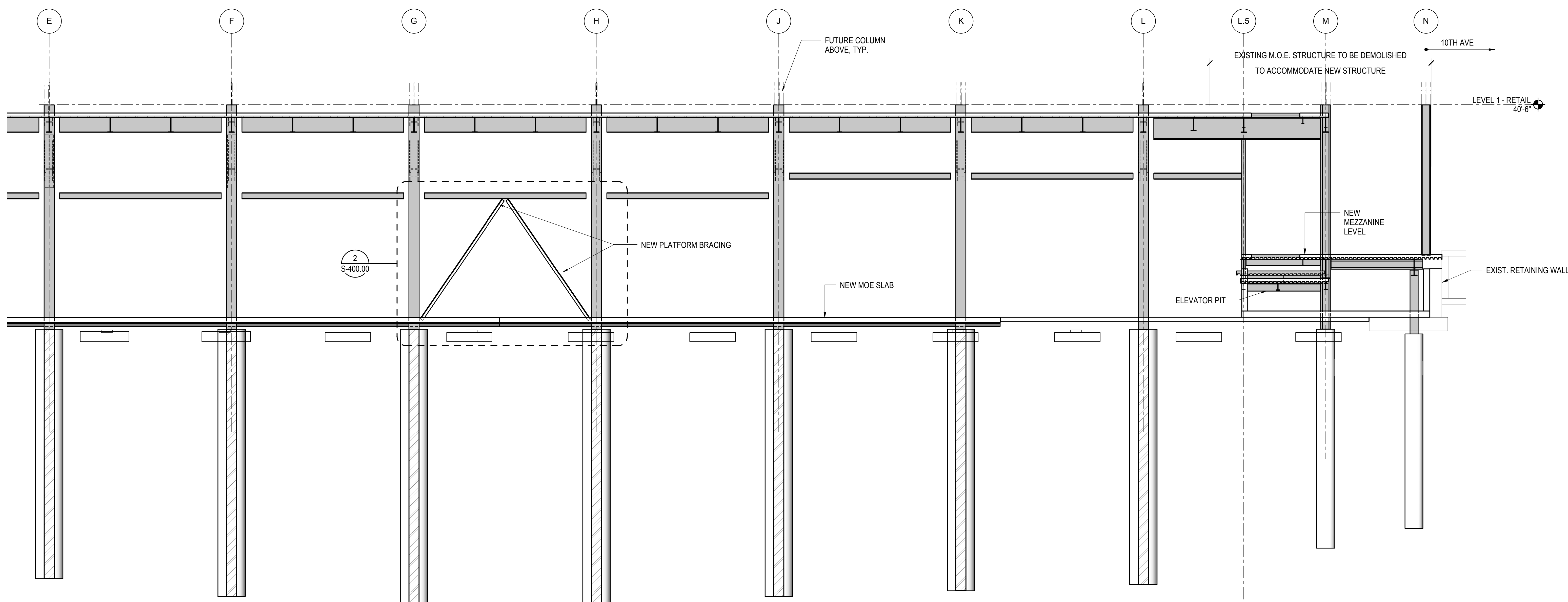
*Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security*  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

*LIRR Ventilation*  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

*LIRR Substation*  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



**1 ELEVATION AT GRID LINE 5**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE 5**  
1/8" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DL02 PHASE I STRUCTURAL UPDATE	1/11/2013
NYC DOB FILING	10/4/2013
Δ - DL01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

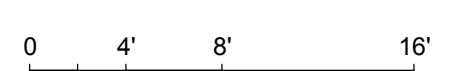
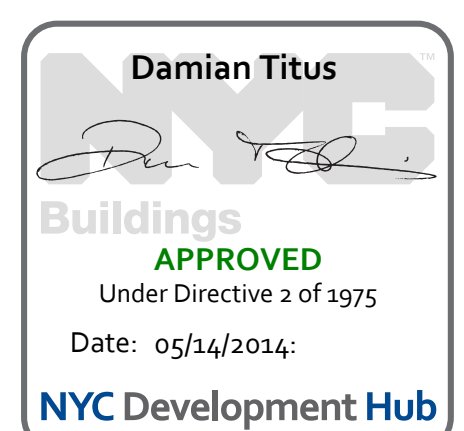
Rev. Date

Date: 02/15/2013  
Project No: N11330.00  
Author: Damian Titus

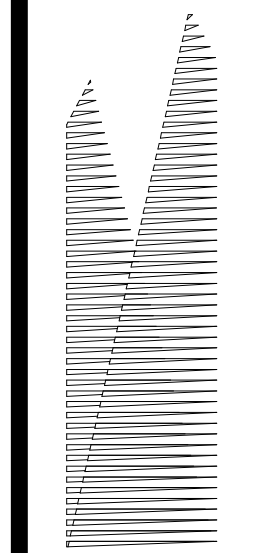
**HYE - PL - S-269.00**

**ELEVATION AT GRID LINE 5**

Drawing Number / B/S/C/S Drawing Number  
**S-269.00**







*Client*  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

*Owner*  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

*Construction Manager*  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

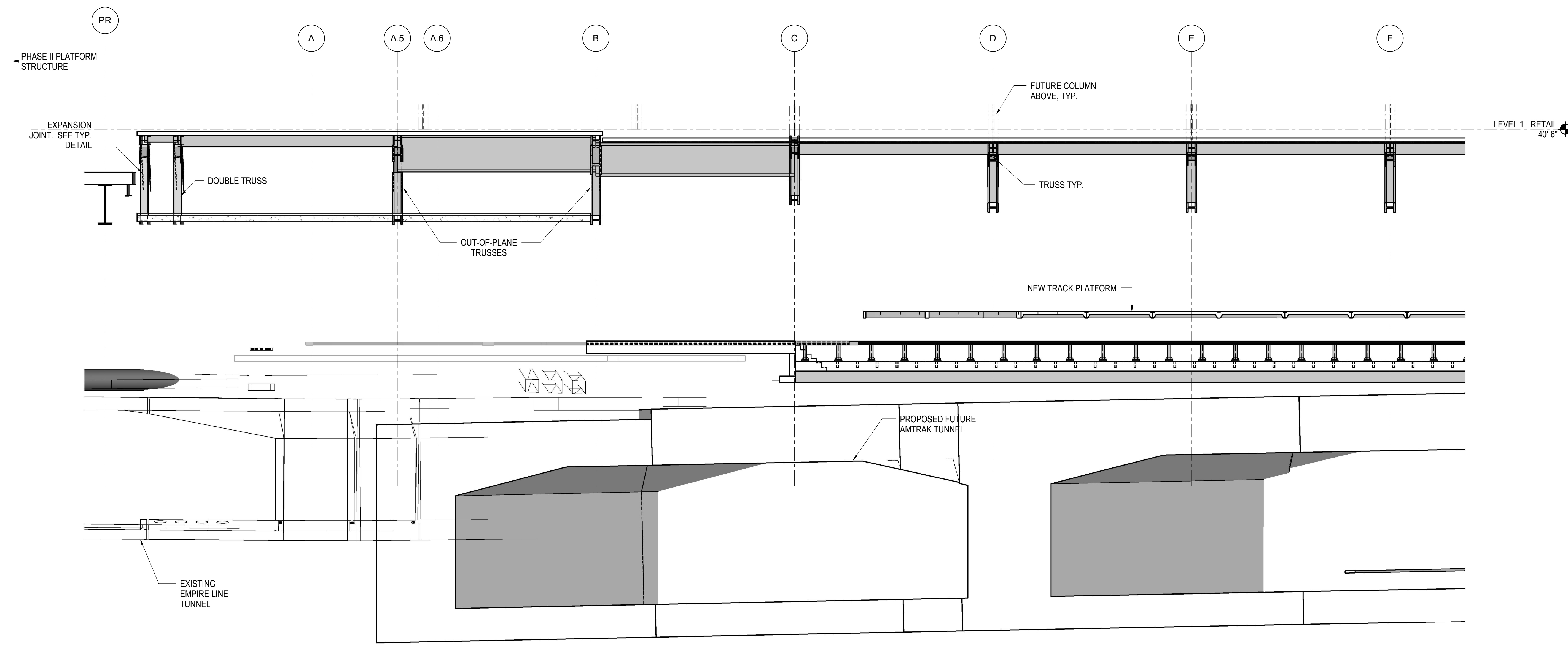
*Architect*  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

*Structural Engineer*  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

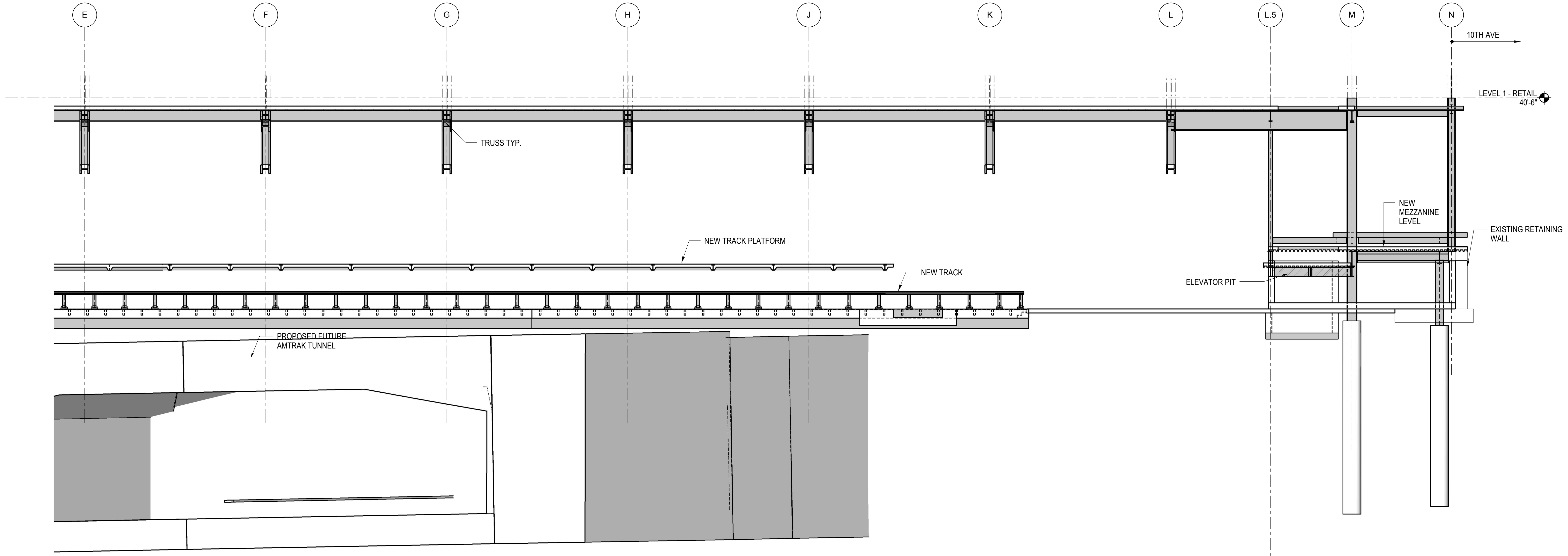
*Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security*  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

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Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

*LIRR Substation*  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



**1 ELEVATION AT GRID LINE 6**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE 6**  
1/8" = 1'-0"

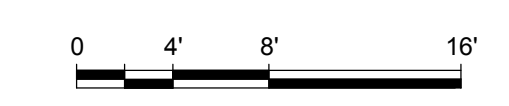
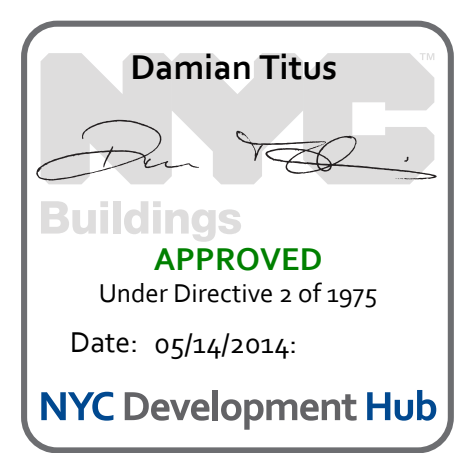
NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T PLATFORM SUBMISSION	
Δ DLOZ PHASE I STRUCTURAL UPDATE	1/1/2013
NYC DOB FILING	10/4/2013
Δ DLOZ PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% PHASE I FINIS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. Plan

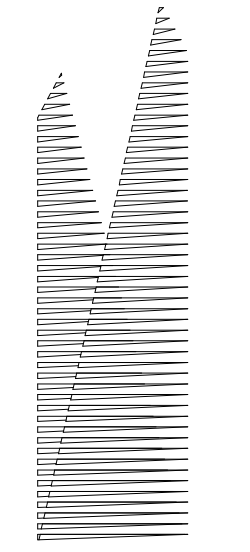
Date	02/15/2013
Project No.	N11330.00
Drawn By	Author
Sheet Number	

**HYE - PL - S-270.00**  
Drawing Title  
**ELEVATION AT GRID LINE 6**

Drawing Number / B/S/C/S Drawing Number  
**S-270.00**







*Client*  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

*Owner*  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

*Construction Manager*  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

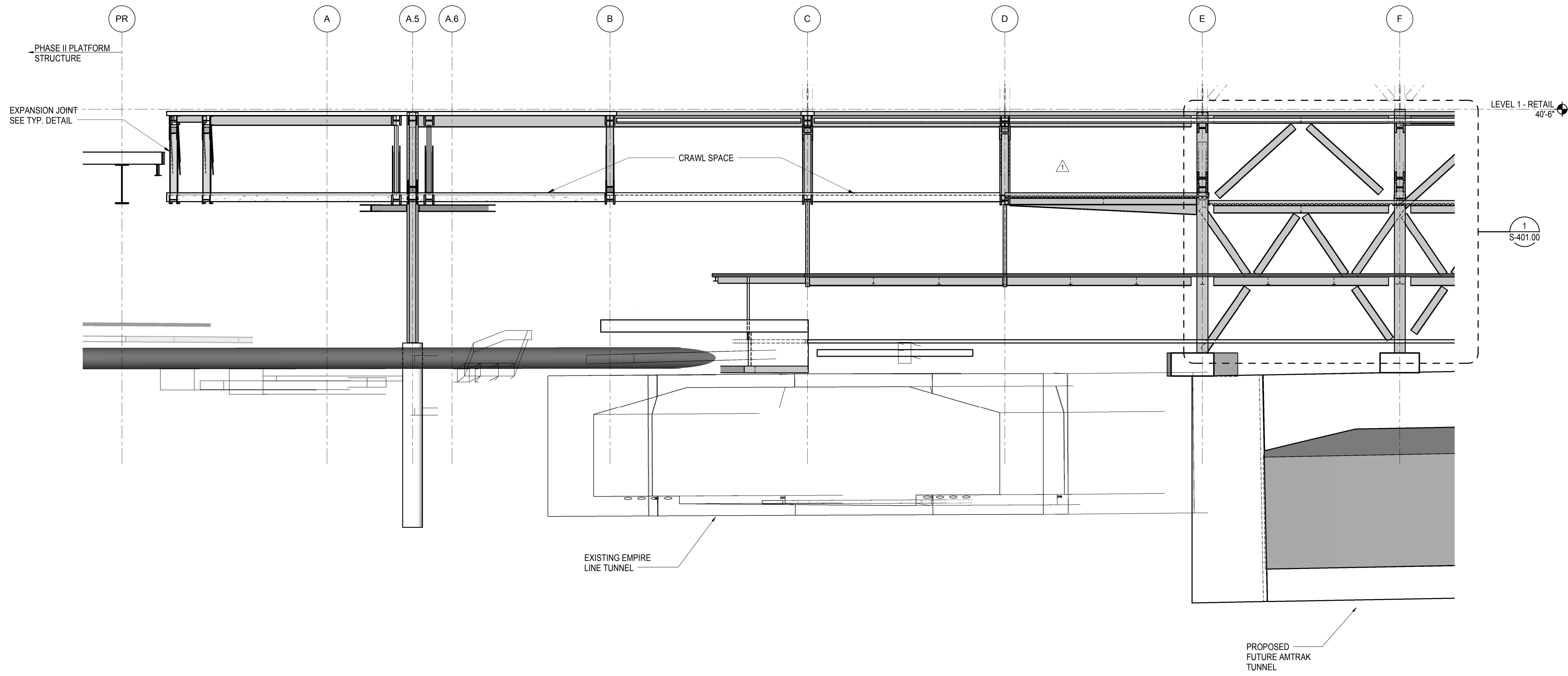
*Architect*  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York, 10036  
Tel: 212.977.6500 Fax: 212.956.2526

*Structural Engineer*  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

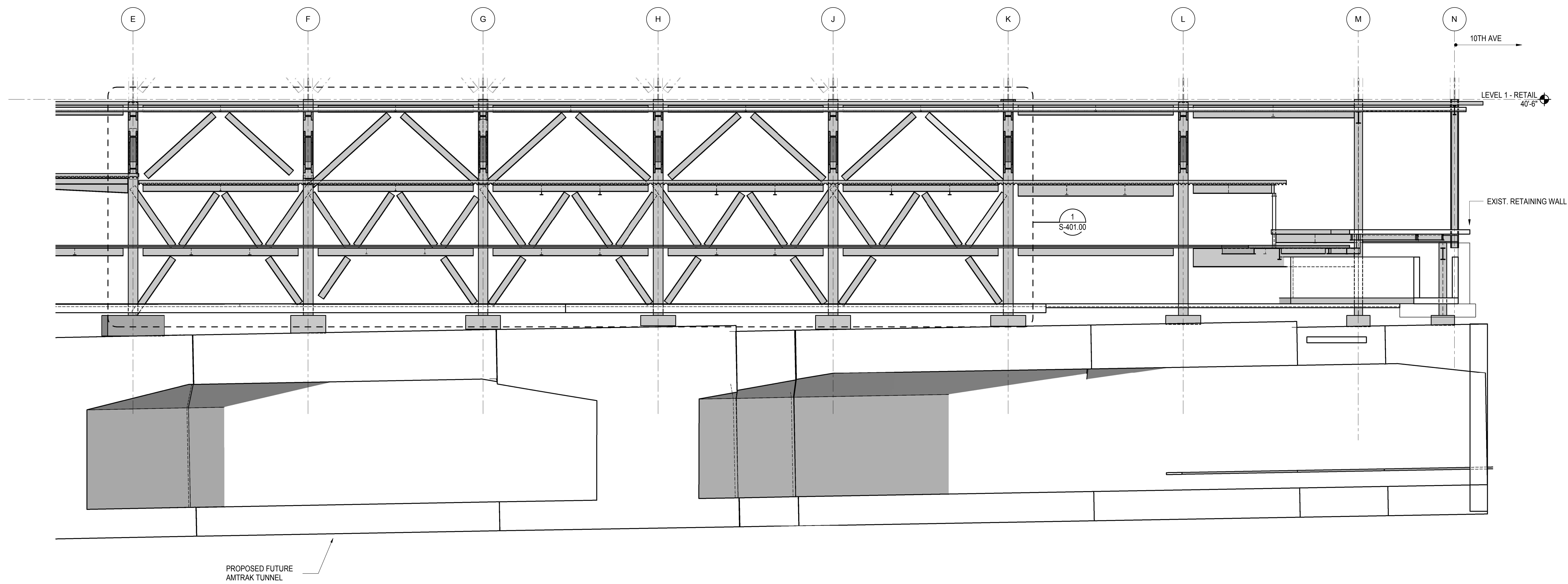
*Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security*  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

*LIRR Ventilation*  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

*LIRR Substation*  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



**1 ELEVATION AT GRID LINE 7**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE 7**  
1/8" = 1'-0"

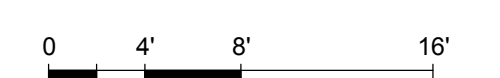
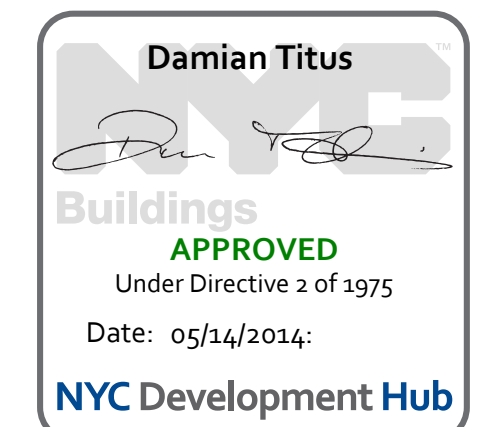
NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DL02 PHASE I STRUCTURAL UPDATE	1/11/2013
NYC DOB FILING	10/4/2013
Δ - DL01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. Plan

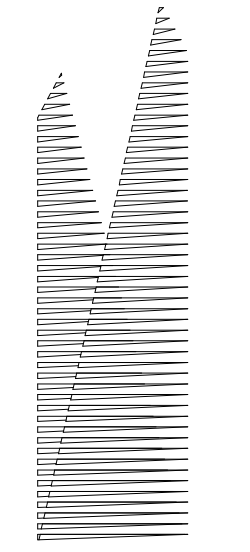
Date: 02/15/2013  
Project No: N11330.00  
Author: Damian Titus

**HYE - PL - S-271.00**  
**ELEVATION AT GRID LINE 7**

Drawing Number / B/S/C/S Drawing Number  
**S-271.00**







*Client*  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

*Owner*  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

*Construction Manager*  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

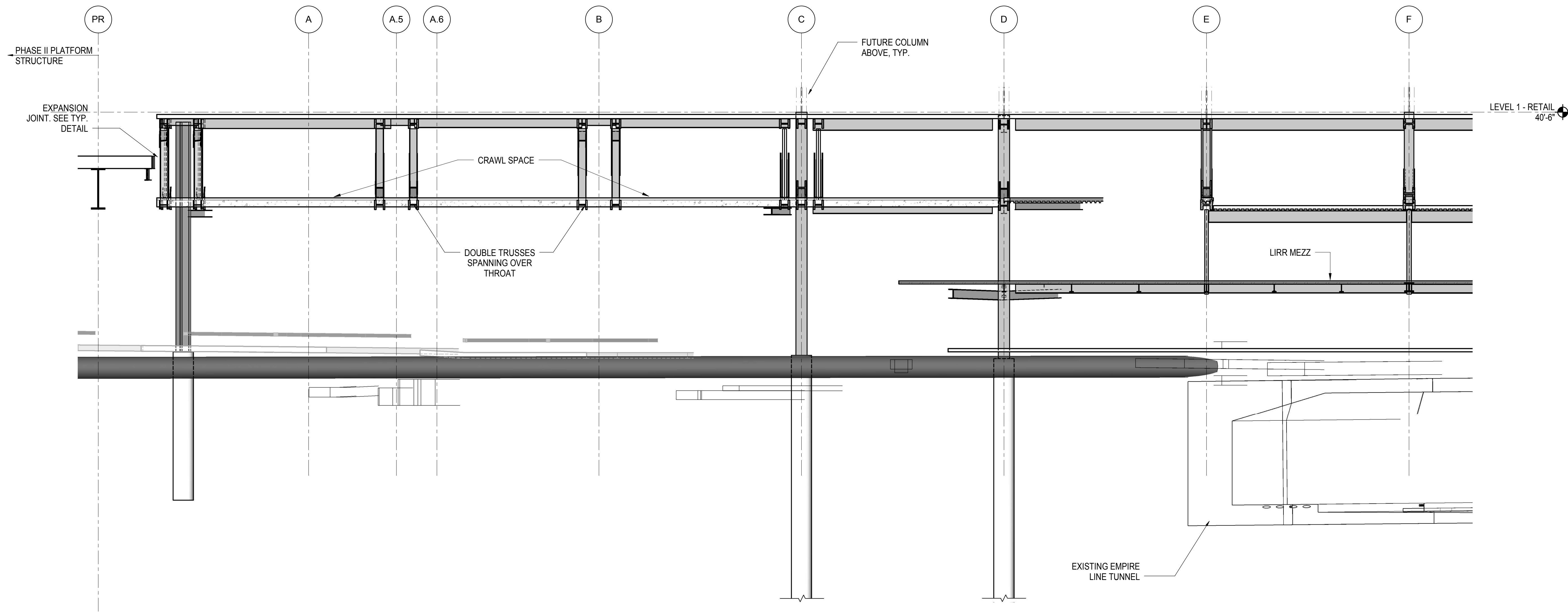
*Architect*  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

*Structural Engineer*  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

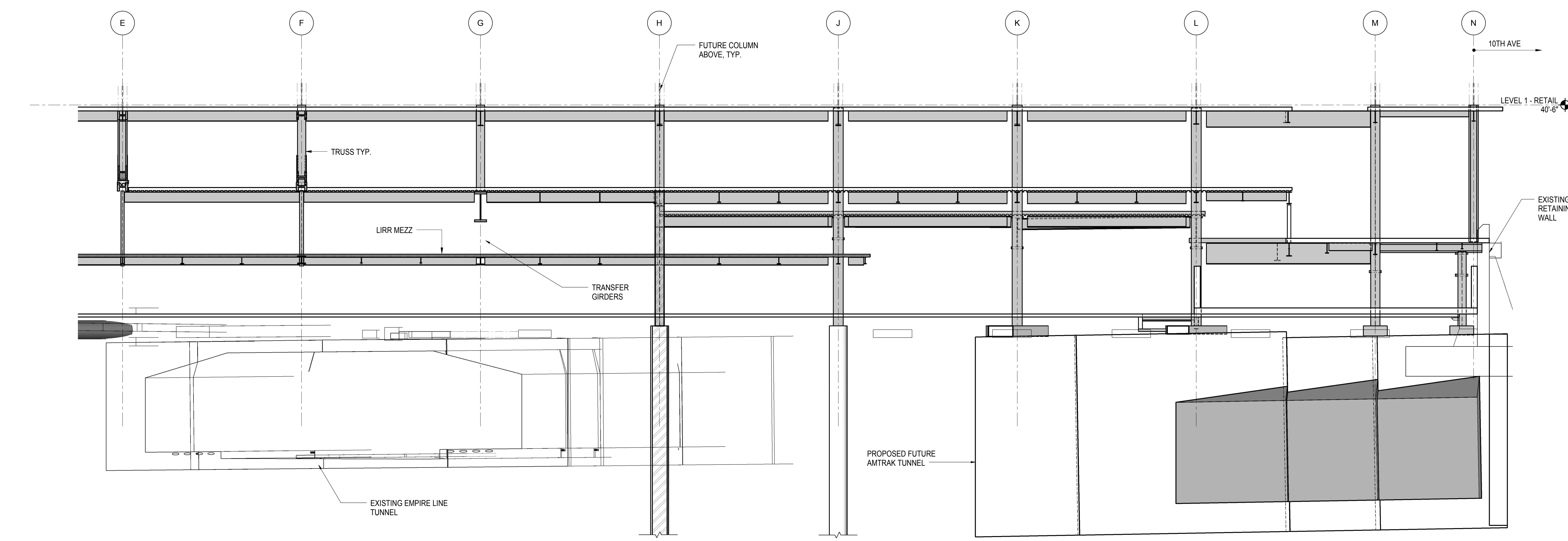
*Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security*  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

*LIRR Ventilation*  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

*LIRR Substation*  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



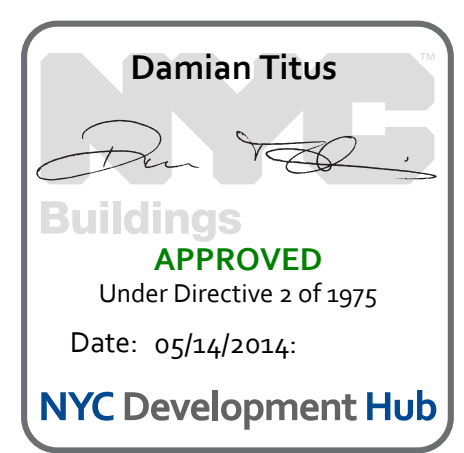
**1 ELEVATION AT GRID LINE 8**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE 8**  
1/8" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
A. DL02 PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
A. DL01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

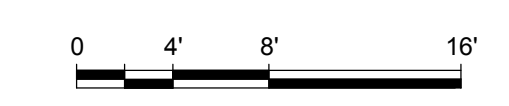
Rev. Plan



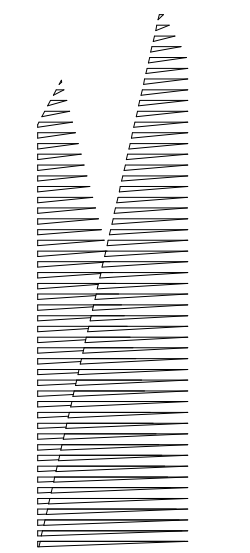
Date: 02/15/2013  
Project No: N11330.00  
Drawing Title: Author  
Sheet Number: 70

**HYE - PL - S-272.00**  
**ELEVATION AT GRID LINE 8**

Drawing Number / BSC/AS Drawing Number  
**S-272.00**







*Client*  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

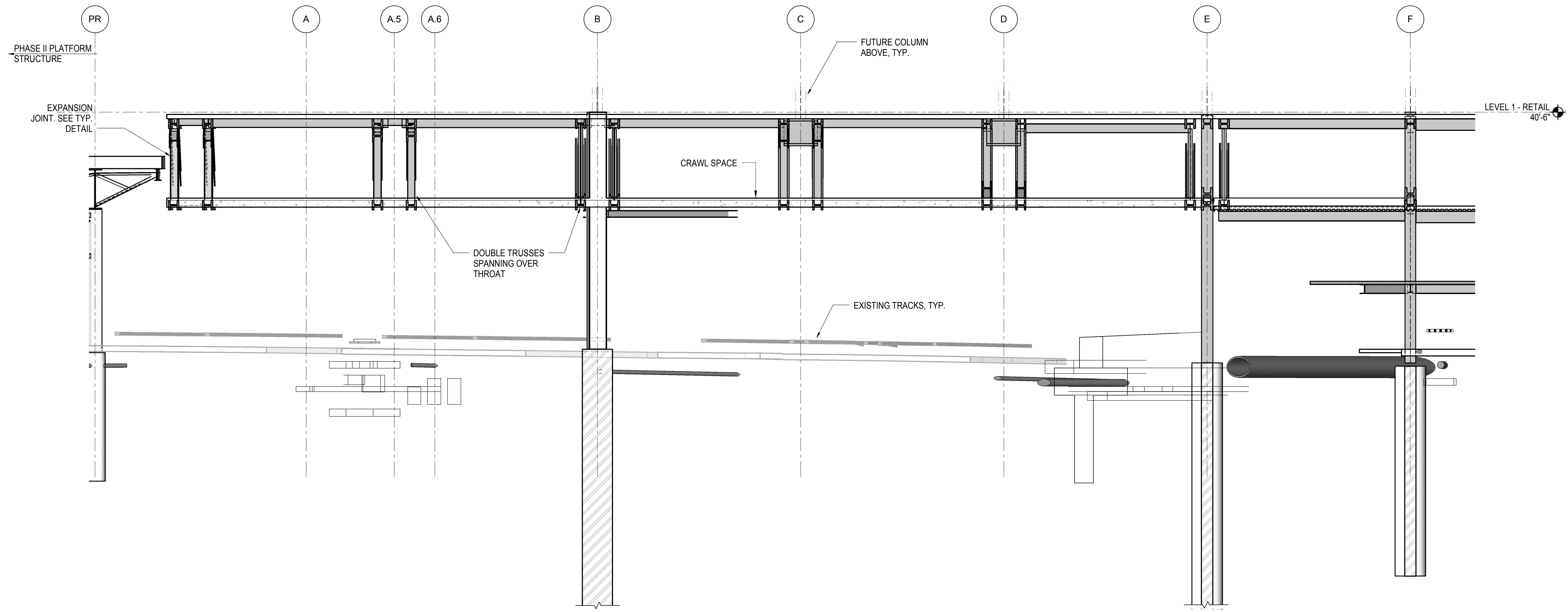
*Construction Manager*  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

*Structural Engineer*  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

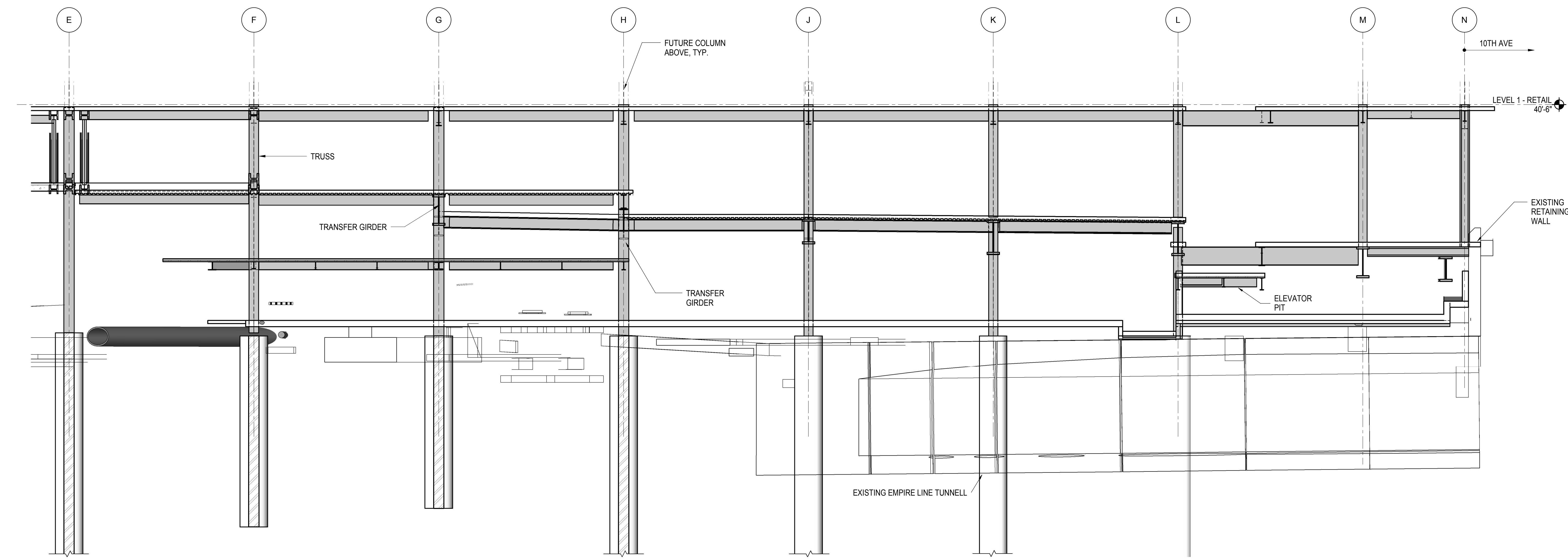
*Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security*  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

*LIRR Ventilation*  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

*LIRR Substation*  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



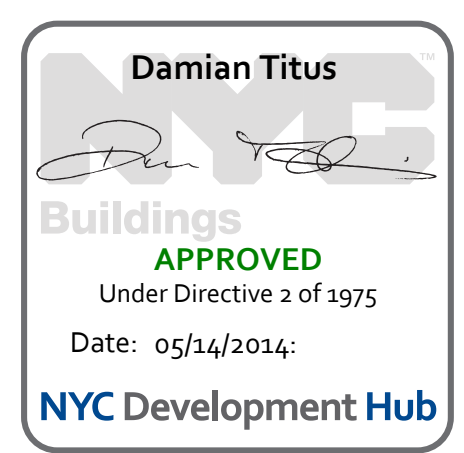
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1/8" = 1'-0"



**2 ELEVATION AT GRID LINE 9**  
1/8" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DLQ2 PHASE 1 STRUCTURAL UPDATE	1/11/2013
NYC DOB FILING	10/4/2013
Δ - DLQ1 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE 1 FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. Plan



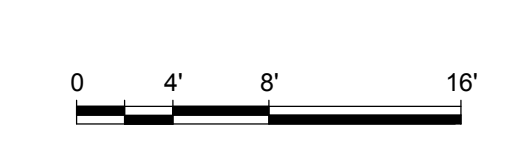
Date: 02/15/2013  
Project No: N11330.00  
Author: Author

**HYE - PL - S-273.00**

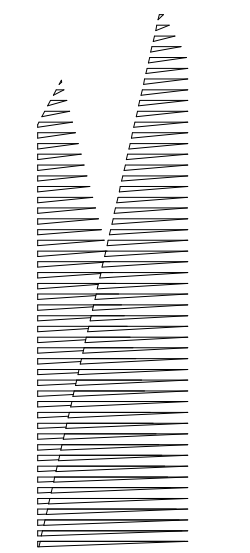
**ELEVATION AT GRID LINE 9**

Drawing Number / B/S/C/S Drawing Number  
**S-273.00**

SHEET 71 OF 201







Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

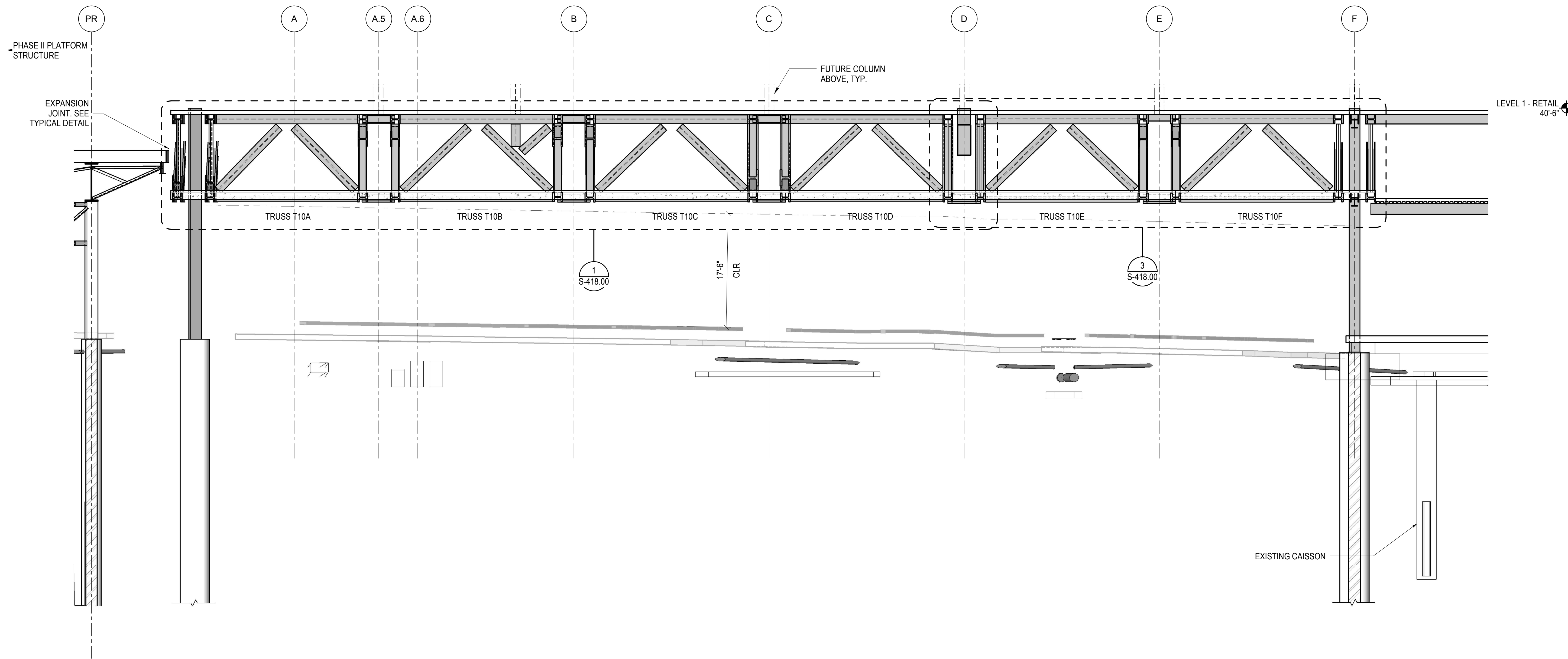
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

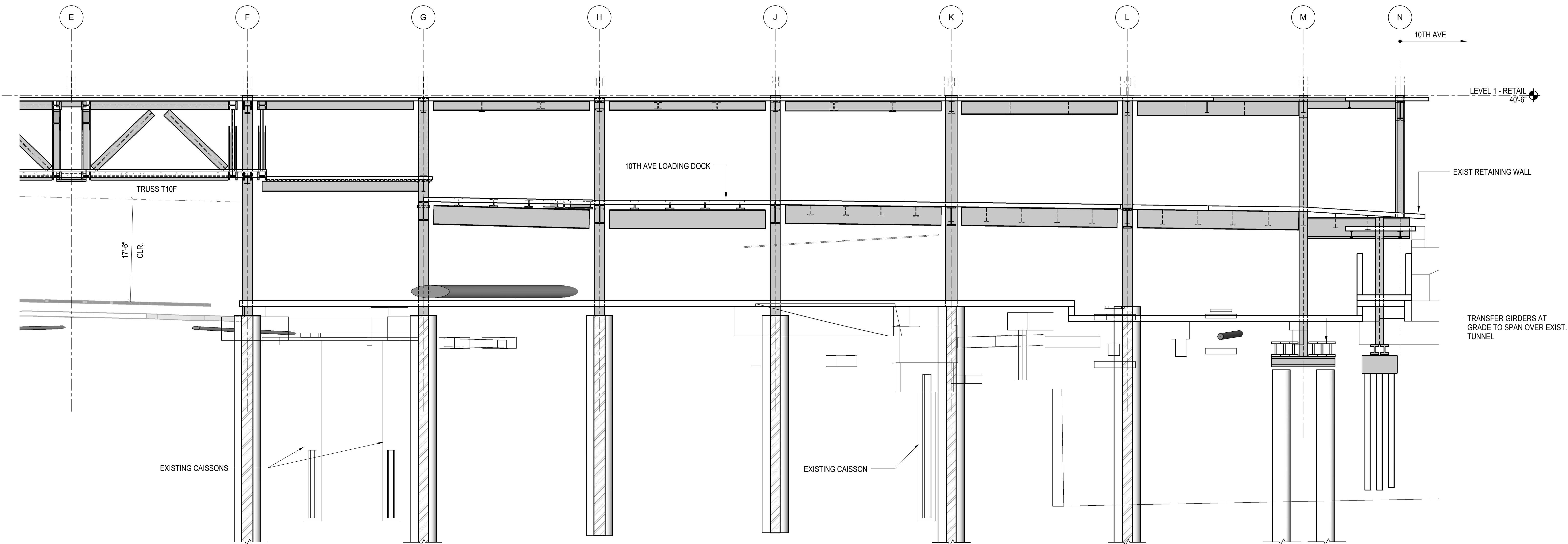
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



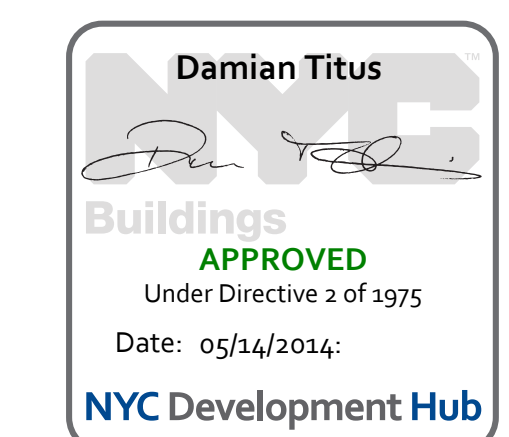
**1 ELEVATION AT GRID LINE 10**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE 10**  
1/8" = 1'-0"

NYC DOB FILING	100%	12/4/2013
L.I.R.R. - PRE-FINAL	100%	11/22/2013
M&U - PLATFORM SUBMISSION		
Δ - DL02 PHASE I STRUCTURAL UPDATE		1/1/2013
NYC DOB FILING		10/4/2013
Δ - DL01 PHASE I STRUCTURE UPDATE		9/20/2013
LIRR - 90% SUBMISSION		8/09/2013
NYC DOB FILING		6/17/2013
LIRR - 60% SUBMISSION		5/29/2013
LIRR - 60% - PHASE I FDNS		3/29/2013
LIRR - 30% SUBMISSION		2/15/2013
Rev	Description	Date

Rev Plot



Date: 02/15/2013  
Project No: N11330.00  
Author: Author  
Issue Number: Author

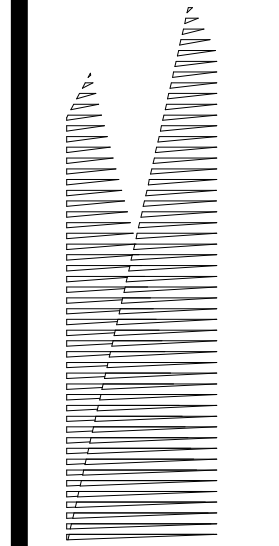
**HYE - PL - S-274.00**

**ELEVATION AT GRID LINE 10**

Drawing Number / B/S/C/D Drawing Number  
**S-274.00**







*Client*  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

*Owner*  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

*Construction Manager*  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

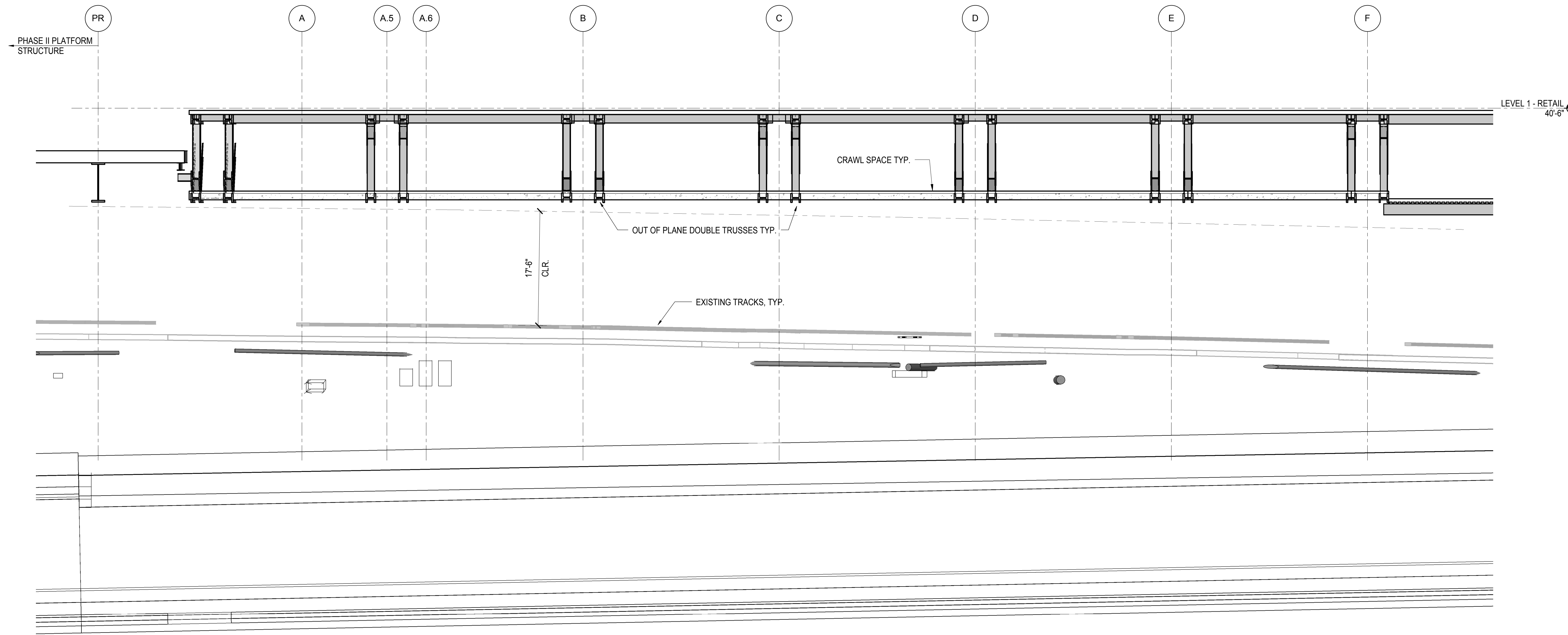
*Architect*  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

*Structural Engineer*  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

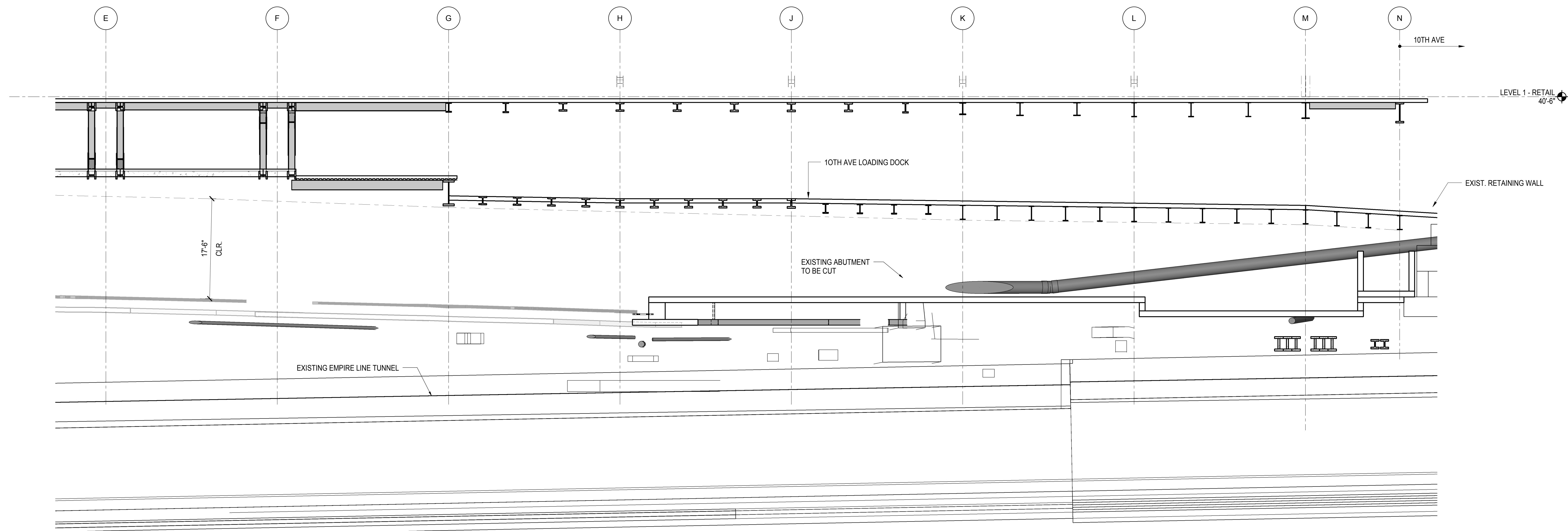
*Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security*  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

*LIRR Ventilation*  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

*LIRR Substation*  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



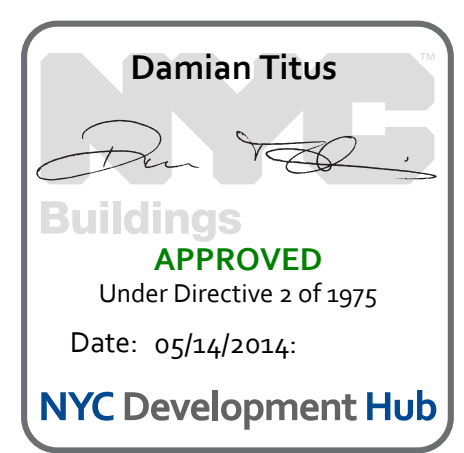
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1/8" = 1'-0"



**2** ELEVATION AT GRID LINE 11  
1/8" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DL02 PHASE I STRUCTURAL UPDATE	1/11/2013
NYC DOB FILING	10/4/2013
Δ - DL01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. Description



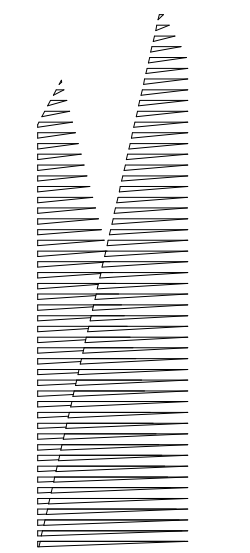
Date: 02/15/2013  
Project No: N11330.00  
Author: [Signature]  
Sheet Number: [Blank]

**HYE - PL - S-275.00**  
Drawing Title  
**ELEVATION AT GRID LINE 11**

Drawing Number / B/S/C/S Drawing Number  
**S-275.00**  
SHEET 73 OF 201







Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

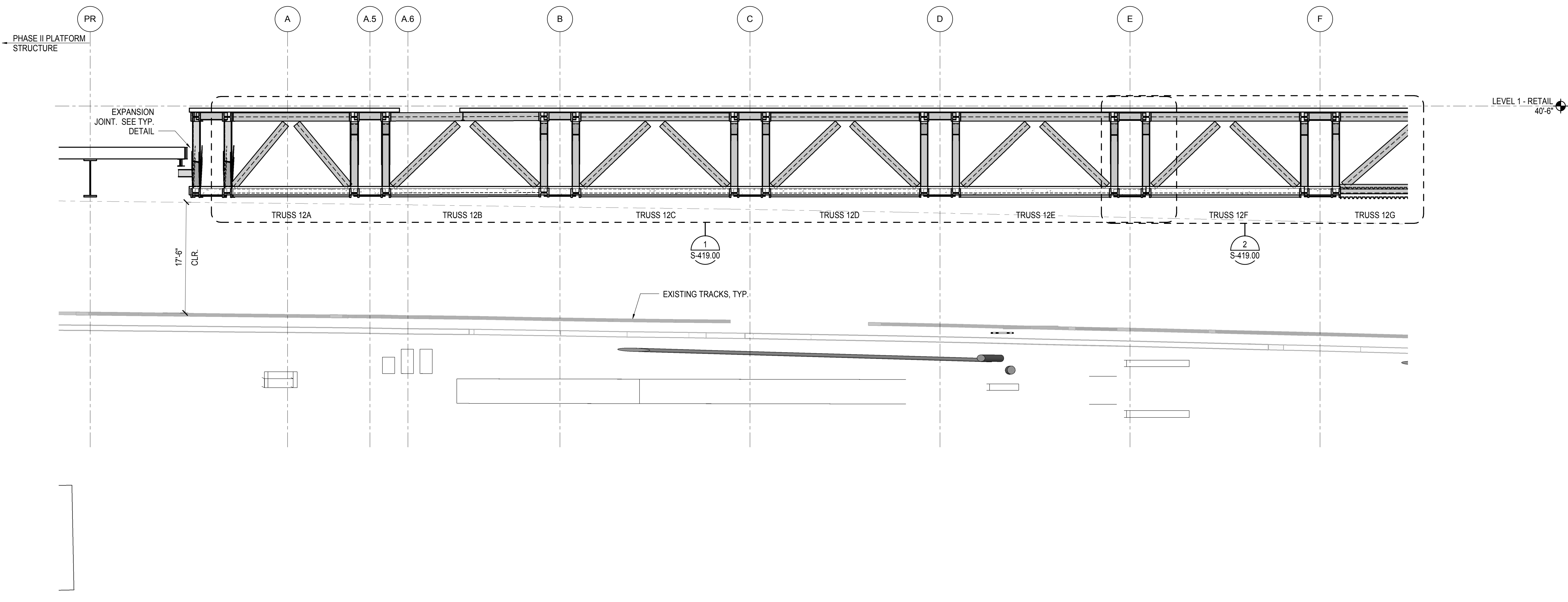
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

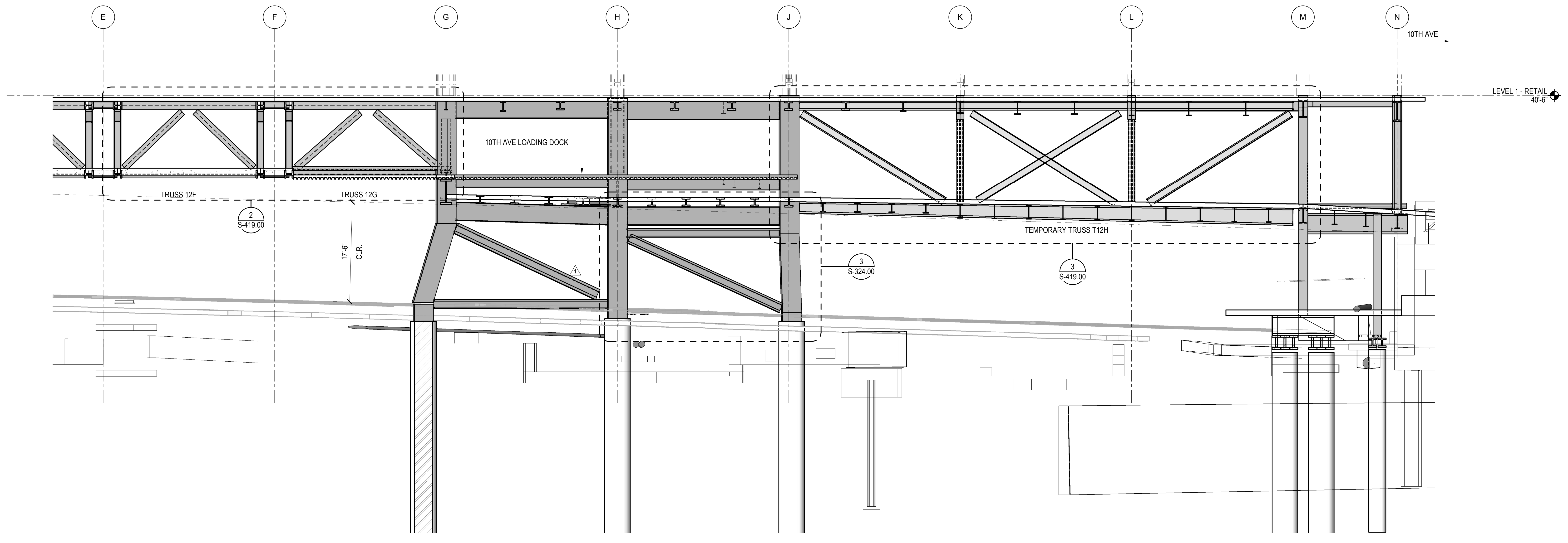
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



**1 ELEVATION AT GRID LINE 12**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE 12**  
1/8" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL	11/22/2013
MEP PLATFORM SUBMISSION	
Δ DLOZ PHASE I STRUCTURAL UPDATE	1/1/2013
NYC DOB FILING	10/4/2013
Δ DLOZ PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. Date

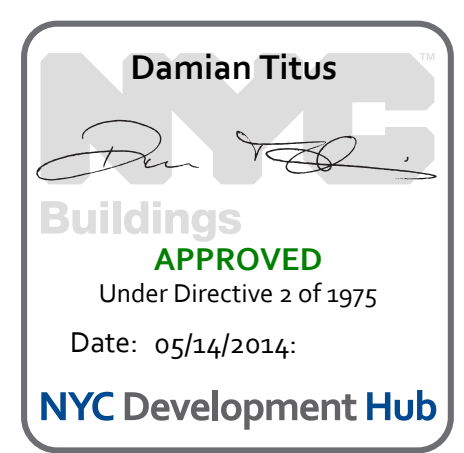
Date: 02/15/2013  
Project No: N11330.00  
Drawing No: Author

**HYE - PL - S-276.00**

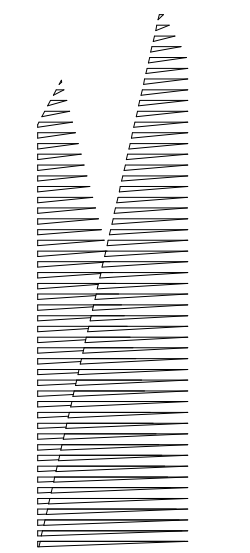
**ELEVATION AT GRID LINE 12**

Drawing Number / BSC/D Drawing Number  
**S-276.00**

SHEET 74 OF 201







*Client*  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

*Overland Properties Group*  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

*Construction Manager*  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

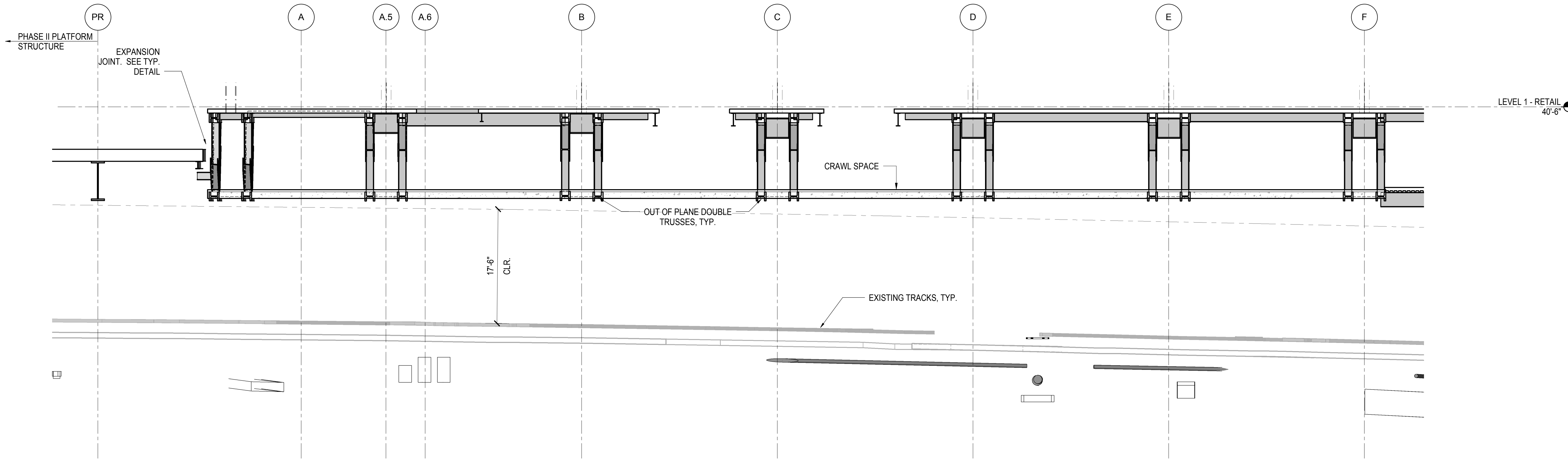
*Architect*  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

*Structural Engineer*  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

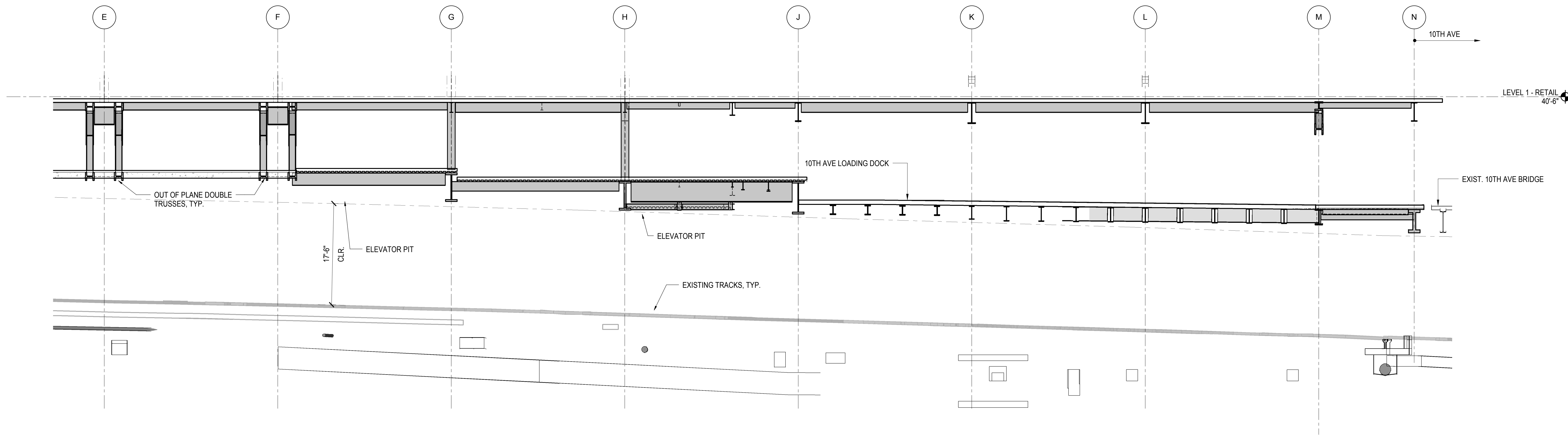
*Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security*  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

*LIRR Ventilation*  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

*LIRR Substation*  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



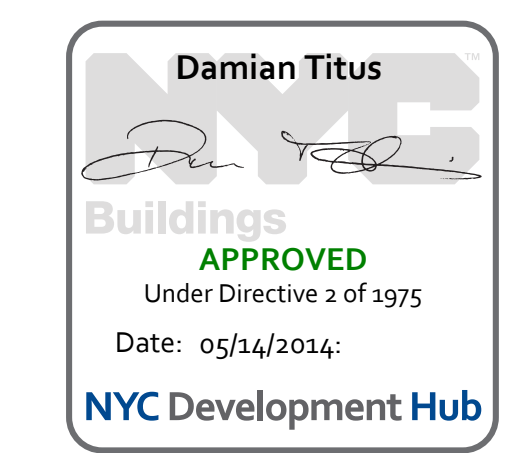
**1 ELEVATION AT GRID LINE 13**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE 13**  
1/8" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DL02 PHASE I STRUCTURAL UPDATE	1/1/2013
NYC DOB FILING	10/4/2013
Δ - DL01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

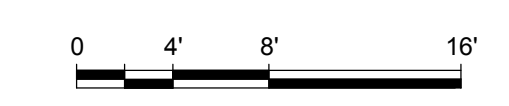
Rev. Plan



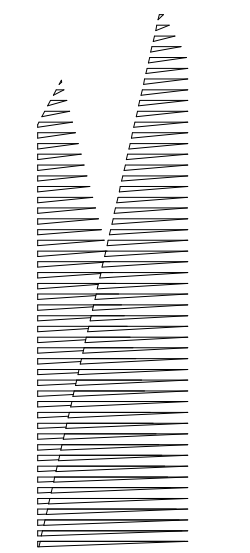
Date: 02/15/2013  
Project No: N11330.00  
Author: Damian Titus

**HYE - PL - S-277.00**  
Drawing Title  
**ELEVATION AT GRID LINE 13**

Drawing Number / BSC/IS Drawing Number  
**S-277.00**







Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Owner  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

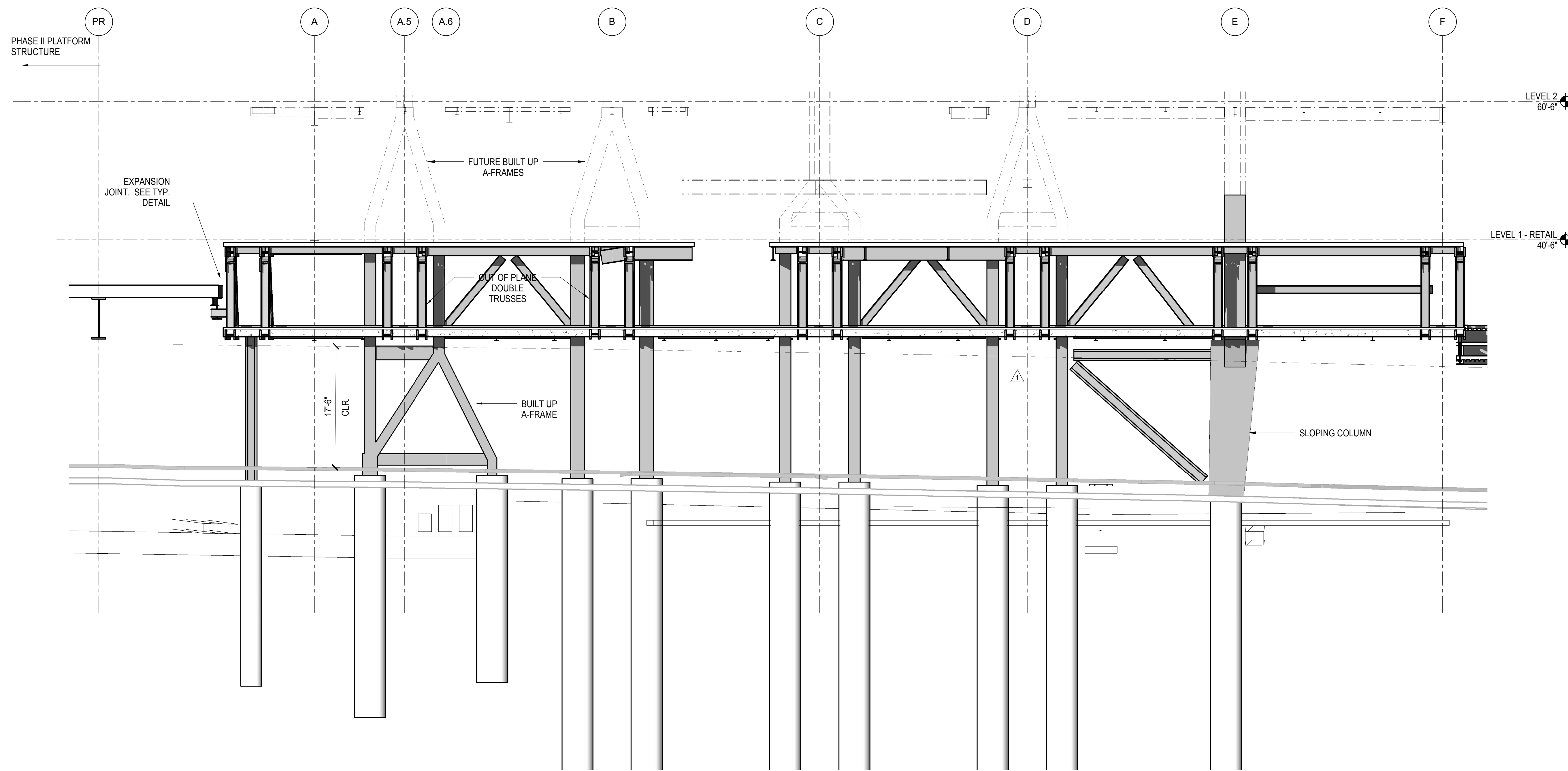
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York, 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

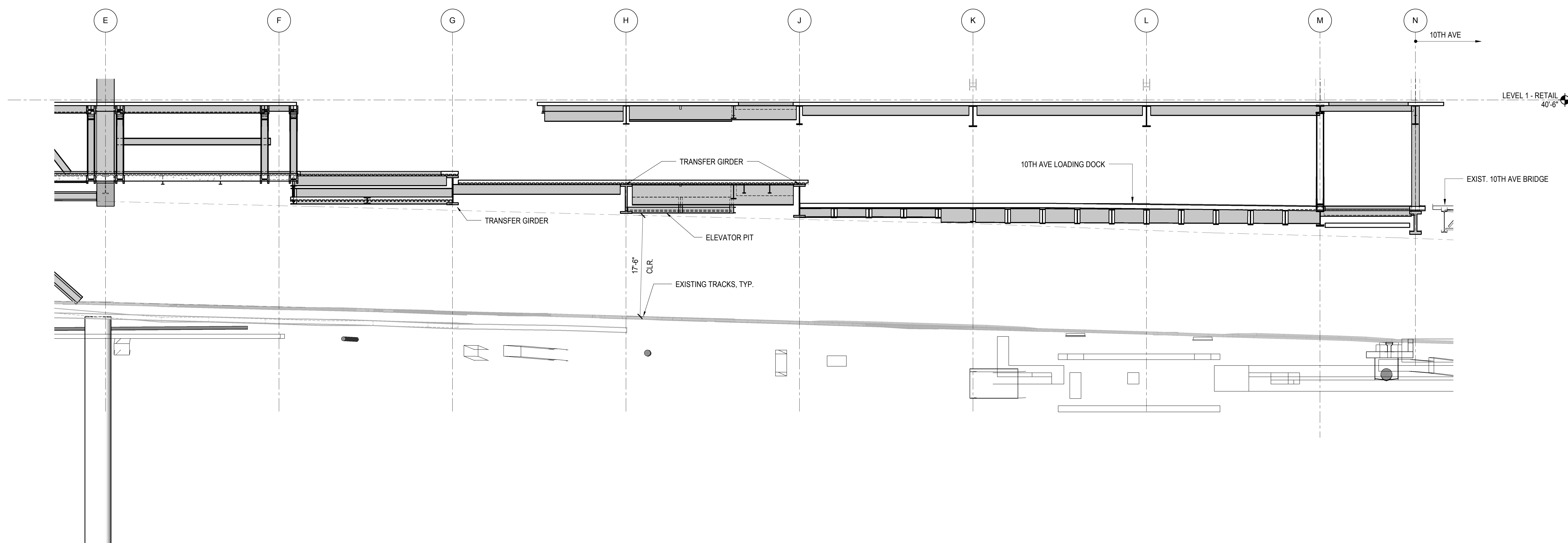
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



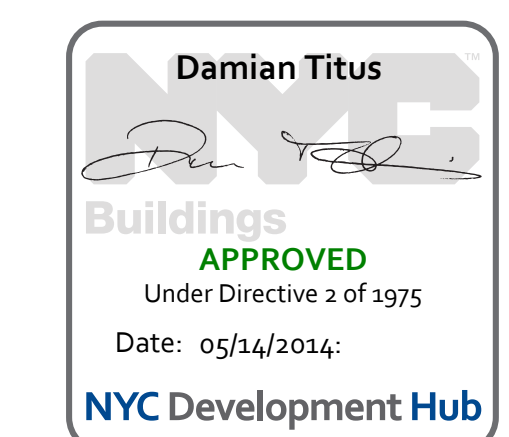
**1 ELEVATION AT GRID LINE 13.5**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE 13.5**  
1/8" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DL02 PHASE I STRUCTURAL UPDATE	1/1/2013
NYC DOB FILING	10/4/2013
Δ - DL01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

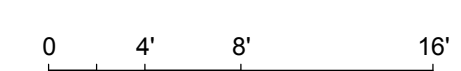
Rev. Plan



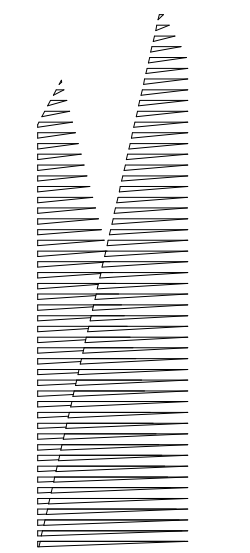
Date: 02/15/2013  
Project No: N11330.00  
Author: Author

**HYE - PL - S-278.00**  
Drawing Title  
**ELEVATION AT GRID LINE 13.5**

Drawing Number / B/S/C/S Drawing Number  
**S-278.00**







Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Owned Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

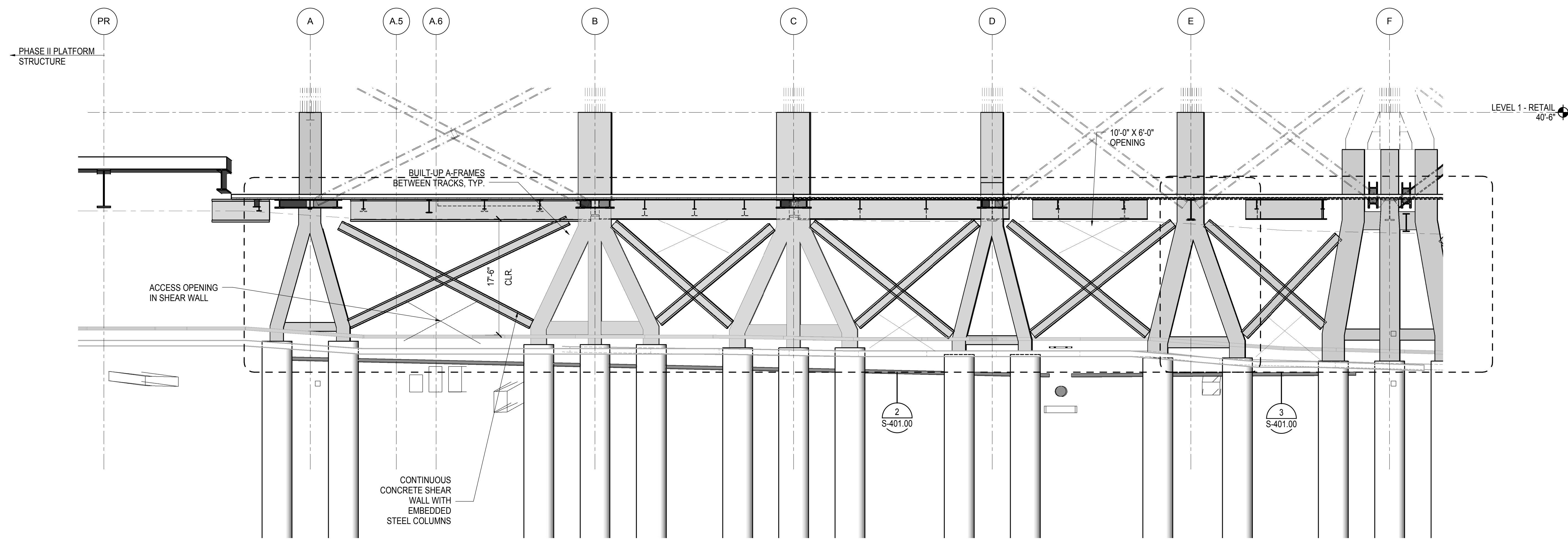
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

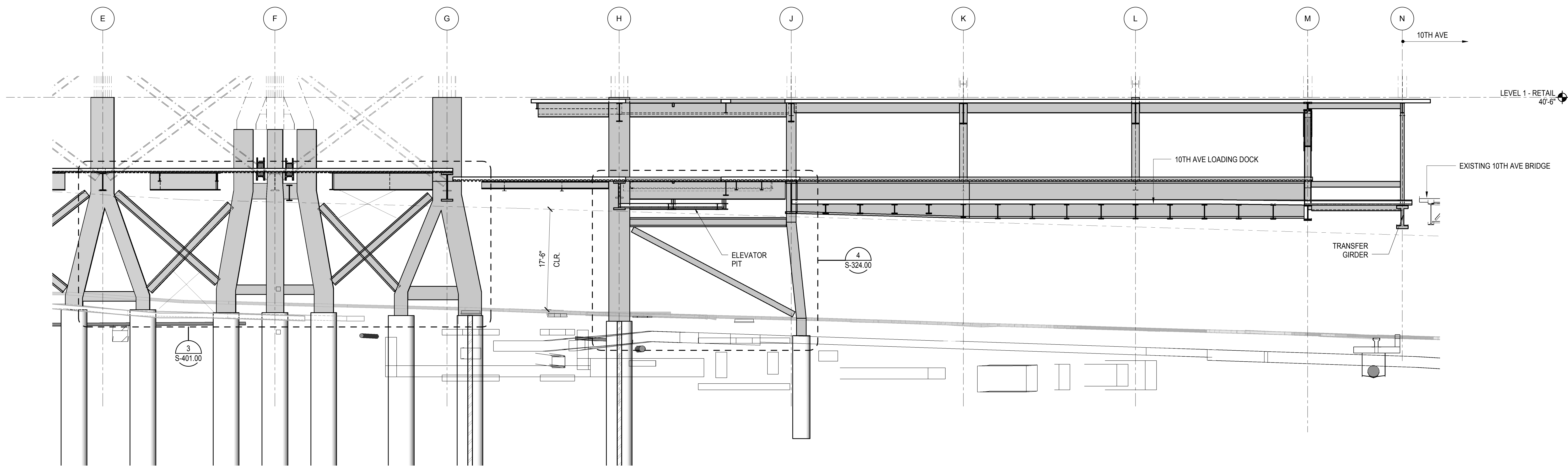
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



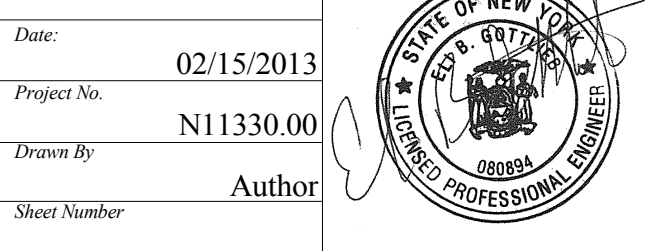
**1 ELEVATION AT GRID LINE 14**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE 14**  
1/8" = 1'-0"

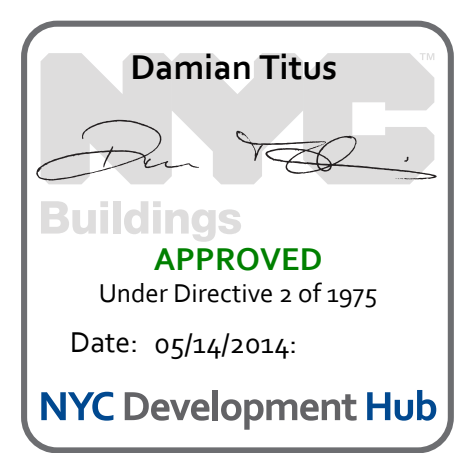
NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DL02 PHASE I STRUCTURAL UPDATE	1/11/2013
NYC DOB FILING	10/4/2013
Δ - DL01 PHASE I STRUCTURAL UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. Plan

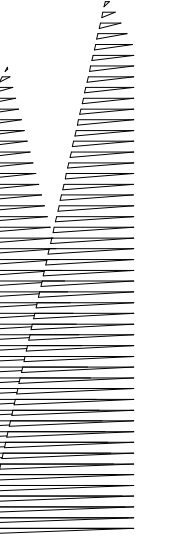


Date: 02/15/2013  
Project No: N11330.00  
Drawn By: Author  
Issue Number:  
**HYE - PL - S-279.00**  
Drawing Title:  
**ELEVATION AT GRID LINE 14**

Drawing Number / B/S/C/S Drawing Number  
**S-279.00**







*Client*  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

*Construction Manager*  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

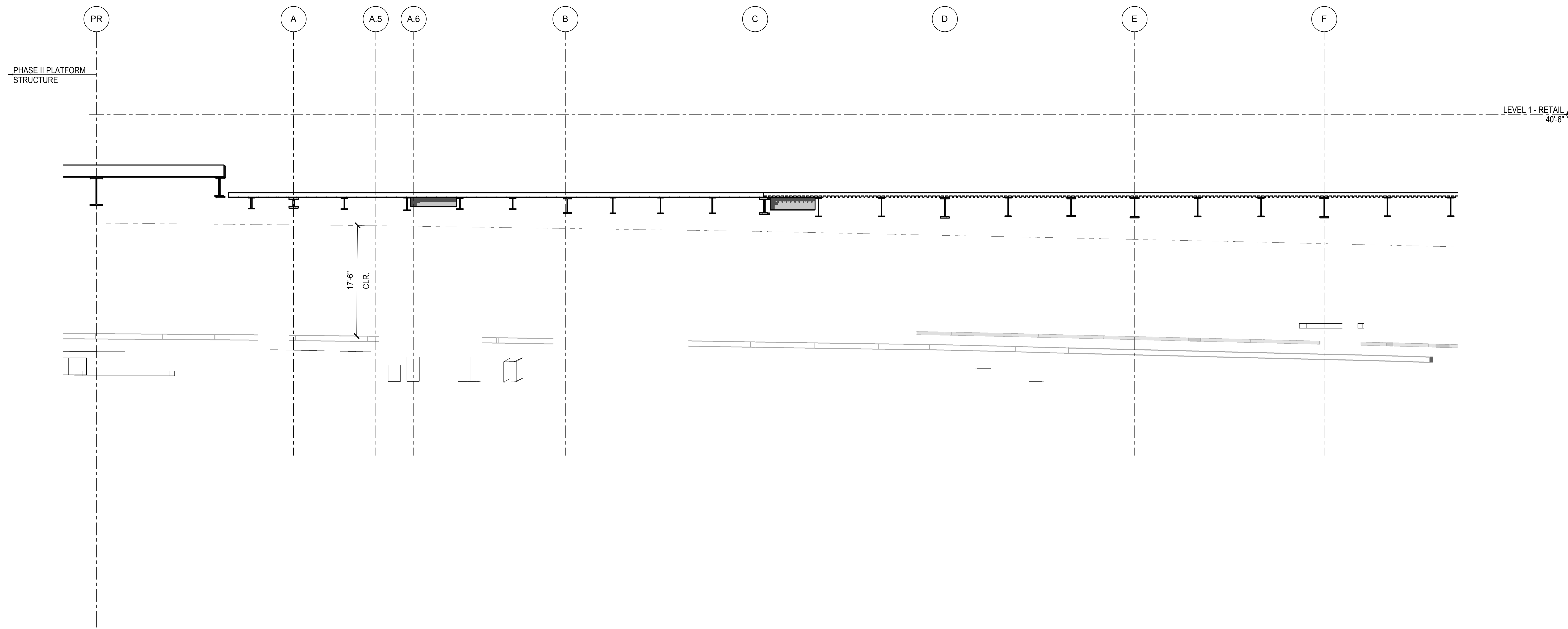
*Architect*  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

*Structural Engineer*  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

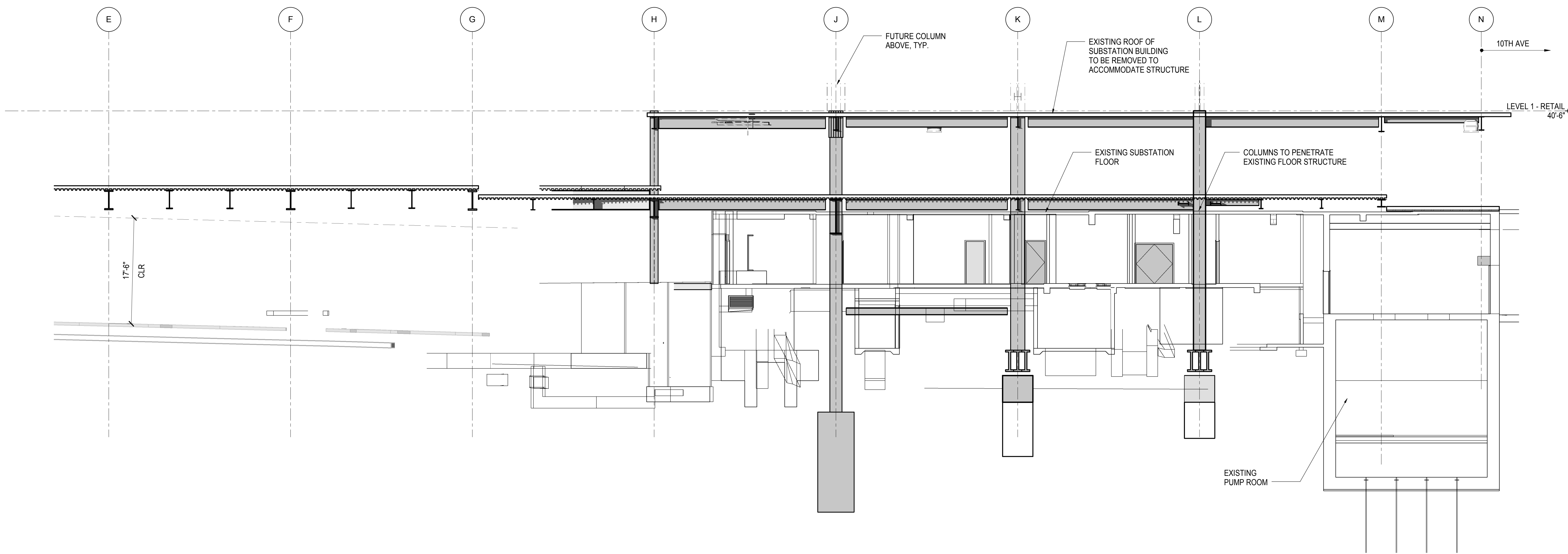
*Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security*  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

*LIRR Ventilation*  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

*LIRR Substation*  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



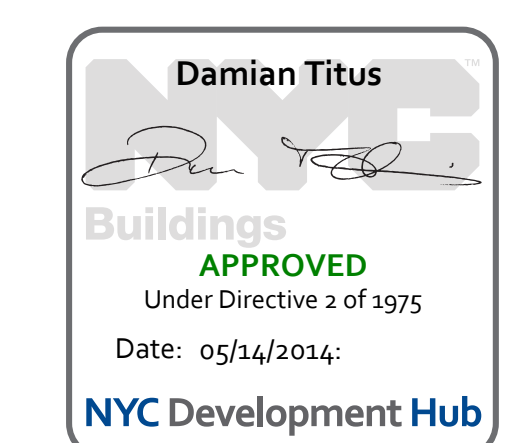
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1/8" = 1'-0"



**2 ELEVATION AT GRID 14.5**  
1/8" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T PLATFORM SUBMISSION	
Δ DLOZ PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ DLOZ PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description Date

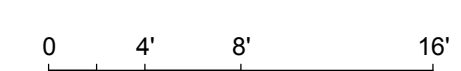
Rev. Plan



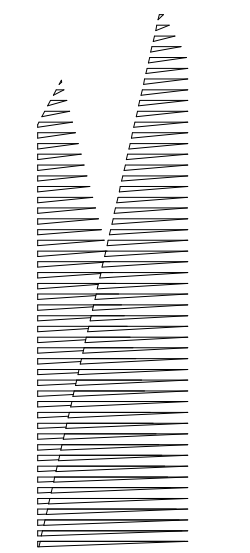
Date: 02/15/2013  
Project No: N11330.00  
Author: Author

**HYE - PL - S-280.00**  
Drawing Title  
**ELEVATION AT GRID LINE 14.5**

Drawing Number / B/S/C/S Drawing Number  
**S-280.00**







*Client*  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

*Owner*  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

*Construction Manager*  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

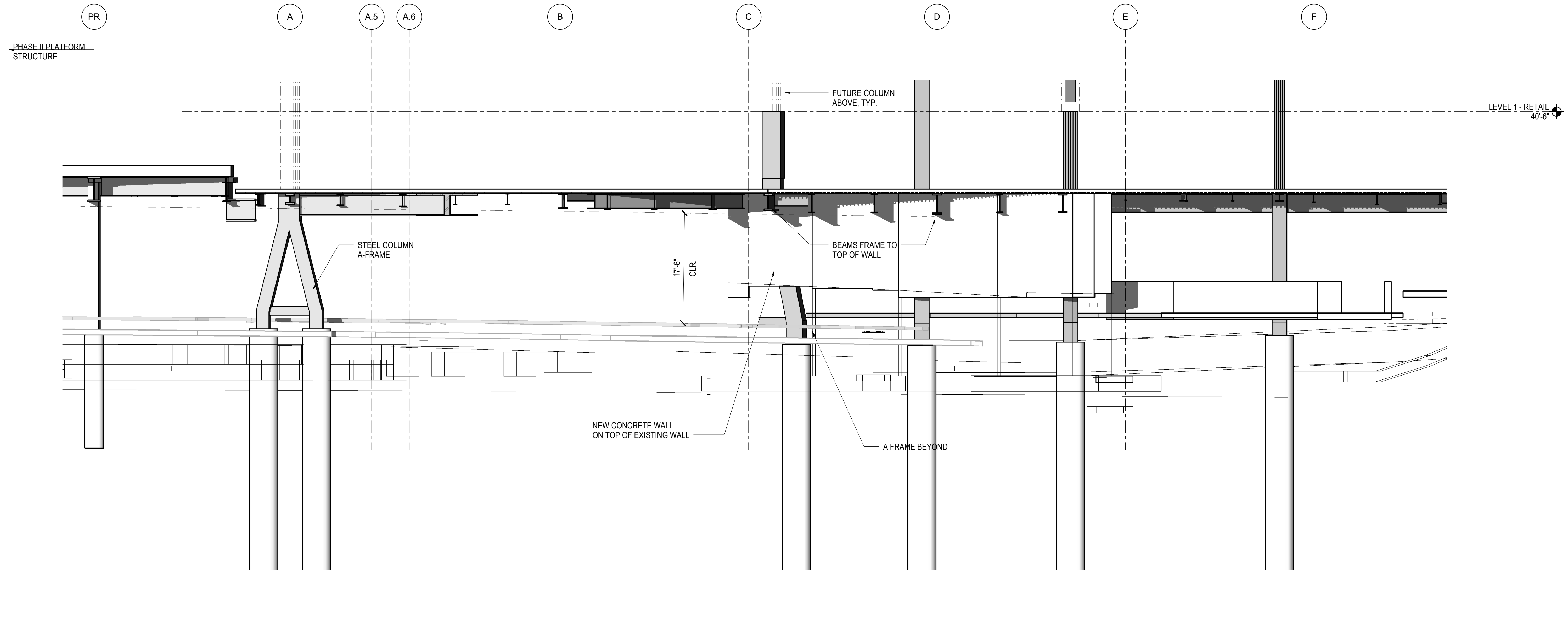
*Architect*  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

*Structural Engineer*  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

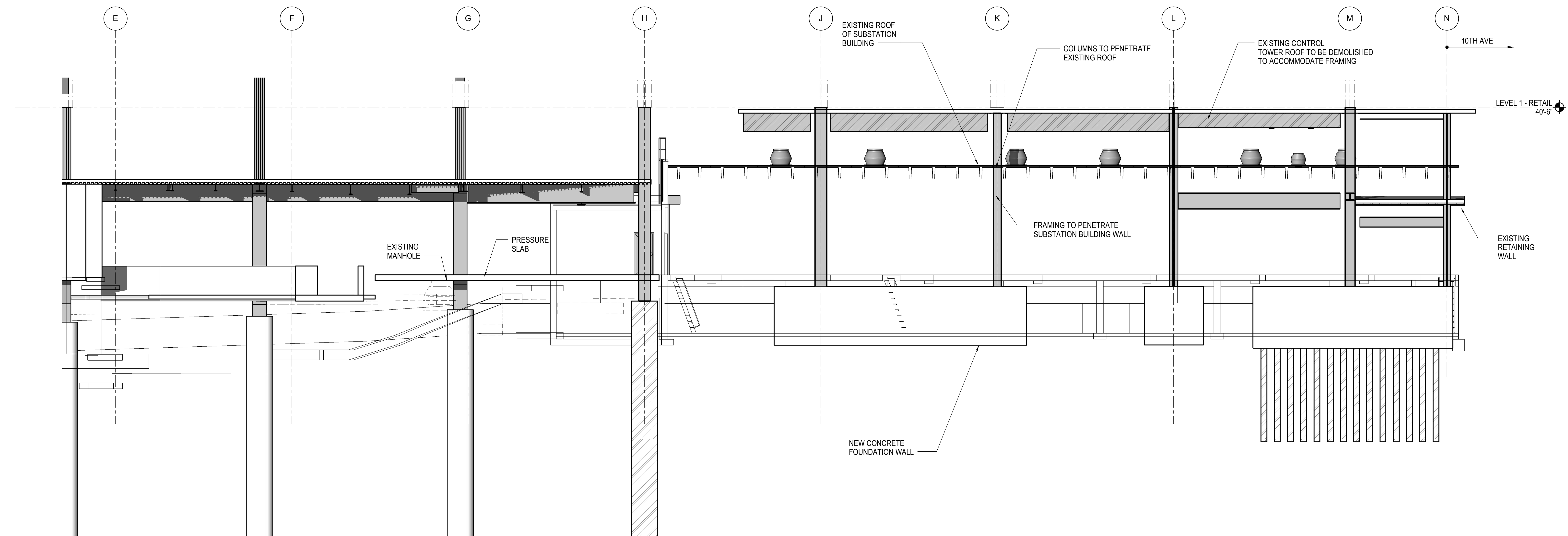
*Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security*  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

*LIRR Ventilation*  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

*LIRR Substation*  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



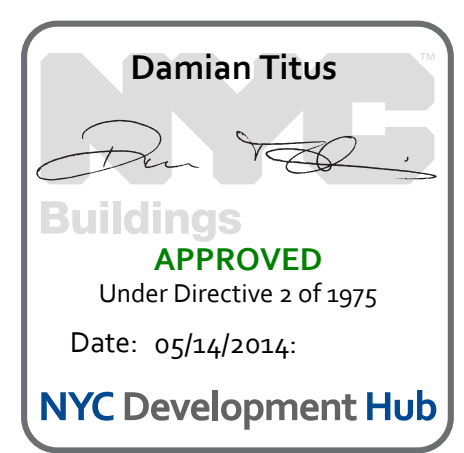
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1/8" = 1'-0"



**2 ELEVATION AT GRID 14.8**  
1/8" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&U - PLATFORM SUBMISSION	
Δ - DL02 PHASE I STRUCTURAL UPDATE	1/11/2013
NYC DOB FILING	10/4/2013
Δ - DL01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% PHASE I FINIS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

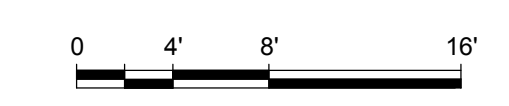
Rev. Plan



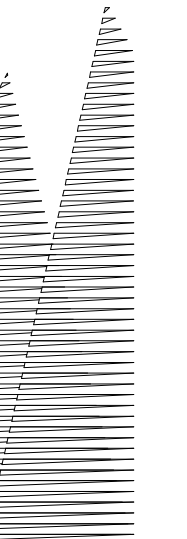
Date: 02/15/2013  
Project No: N11330.00  
Author: Author

**HYE - PL - S-281.00**  
Drawing Title  
**ELEVATION AT GRID LINE 14.8**

Drawing Number / B/S/C/S Drawing Number  
**S-281.00**







*Client*  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

*Owner*  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

*Construction Manager*  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

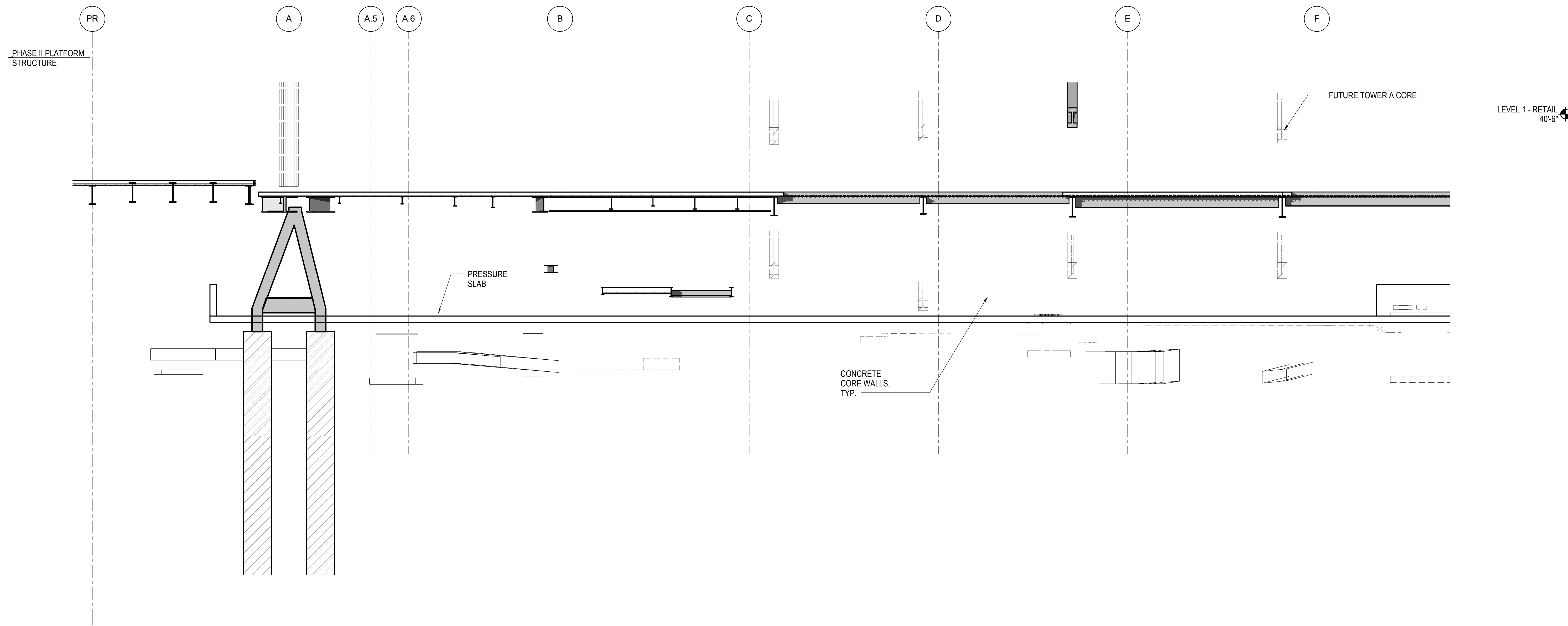
*Architect*  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

*Structural Engineer*  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

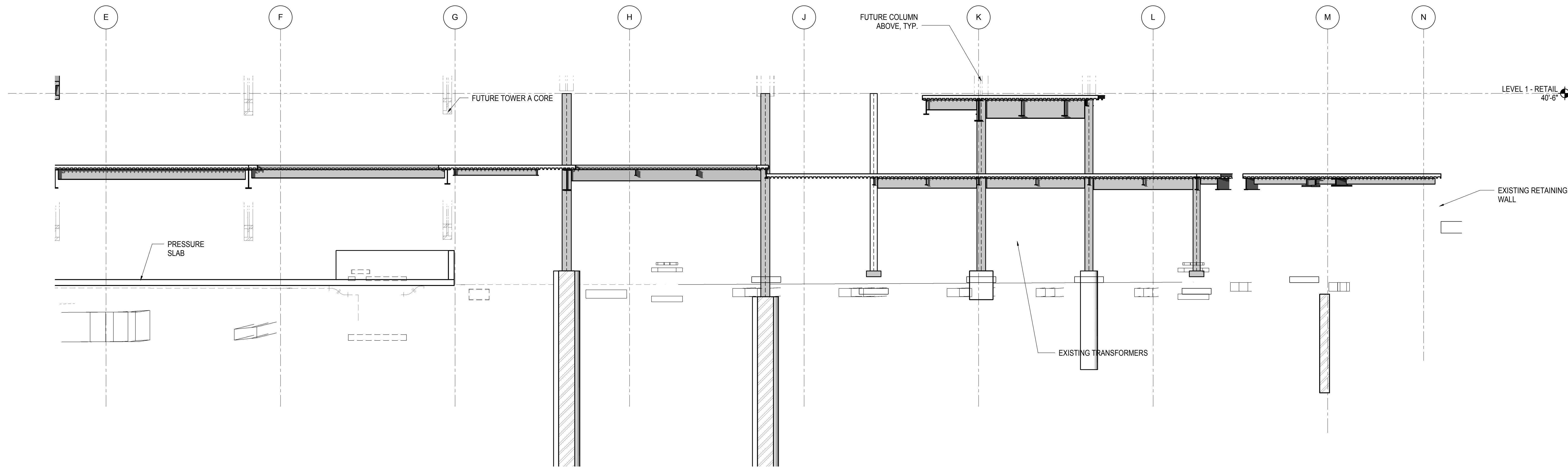
*Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security*  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

*LIRR Ventilation*  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

*LIRR Substation*  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



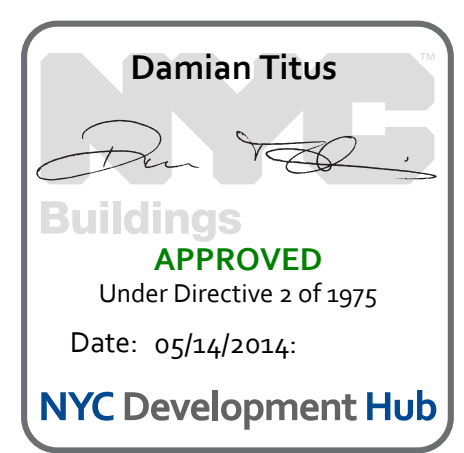
**1 ELEVATION AT GRID LINE 16.5**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE 16.5**  
1/8" = 1'-0"

Rev	Description	Date
1	NYC DOB FILING	12/4/2013
2	L.I.R.R. - PRE-FINAL 100%	11/22/2013
3	MEP PLATFORM SUBMISSION	
4	DEQ PHASE I STRUCTURAL UPDATE	1/1/2013
5	NYC DOB FILING	10/4/2013
6	DEQ PHASE I STRUCTURE UPDATE	9/20/2013
7	LIRR - 90% SUBMISSION	8/09/2013
8	NYC DOB FILING	6/17/2013
9	LIRR - 60% SUBMISSION	5/29/2013
10	LIRR - 60% - PHASE I FDNS	3/29/2013
11	LIRR - 30% SUBMISSION	2/15/2013

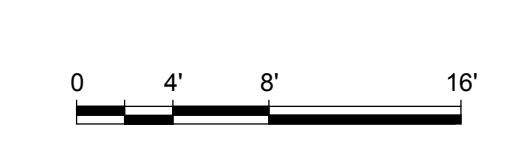
Rev. Plan



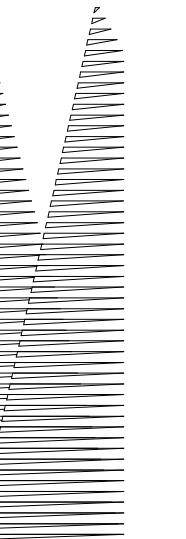
Date: 02/15/2013  
Project No: N11330.00  
Drawn By: Author  
Sheet Number: 80

**HYE - PL - S-282.00**  
Drawing Title  
**ELEVATION AT GRID LINE 16.5**

Drawing Number / B/S/C/S Drawing Number  
**S-282.00**







Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

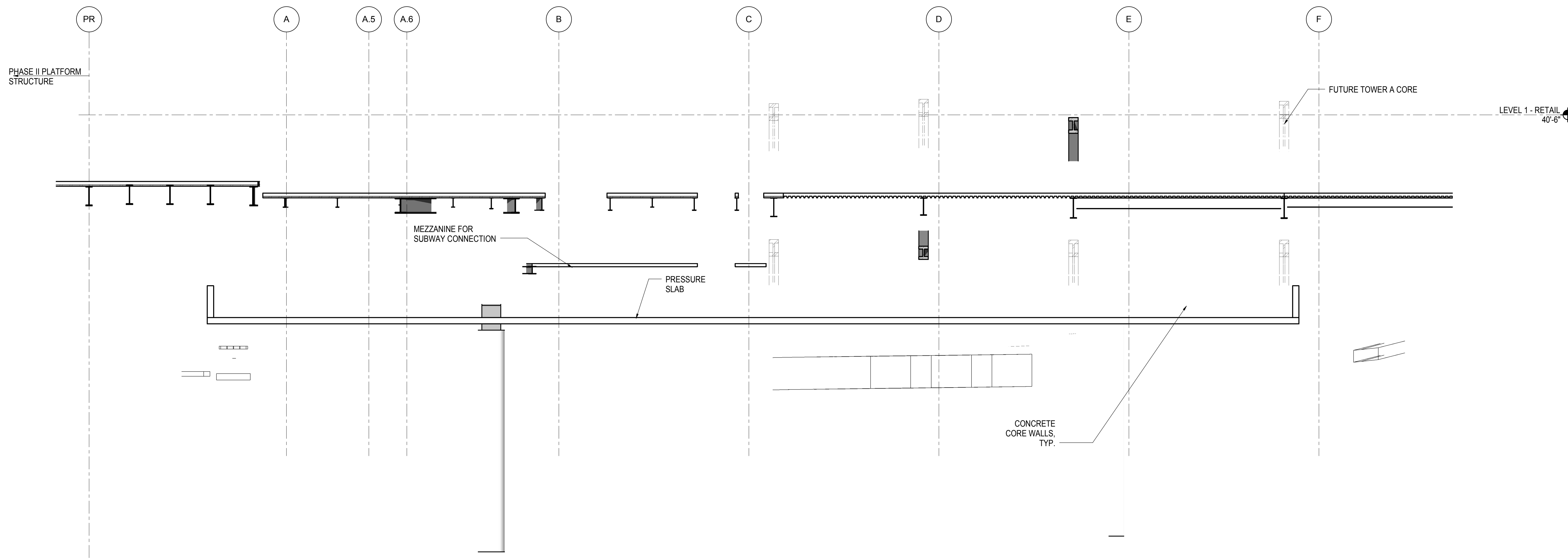
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

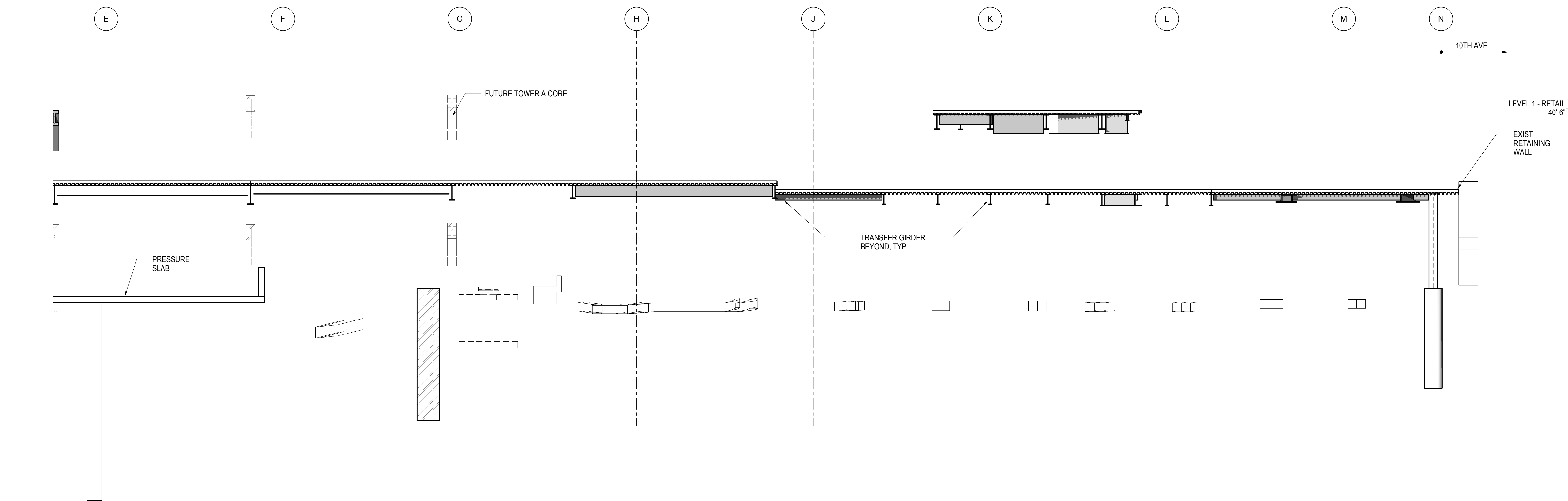
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



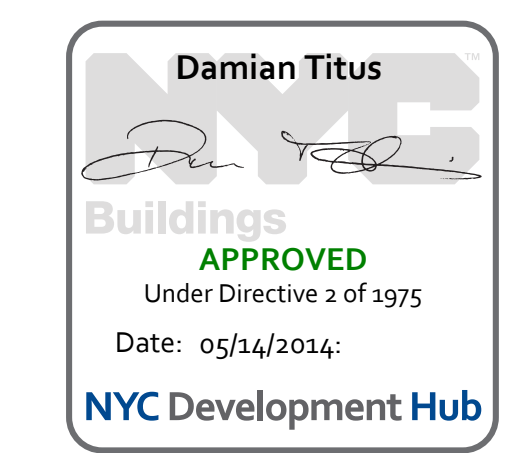
**1 ELEVATION AT GRID 16.7**  
1/8" = 1'-0"



**2 ELEVATION AT GRID 16.7**  
1/8" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DL02 PHASE I STRUCTURAL UPDATE	1/11/2013
NYC DOB FILING	10/4/2013
Δ - DL01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. Plan



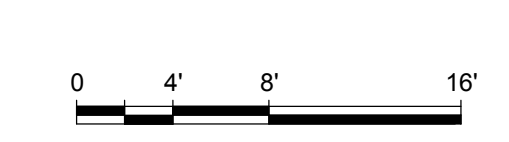
Date: 02/15/2013  
Project No: N11330.00  
Author: [Signature]

**HYE - PL - S-283.00**

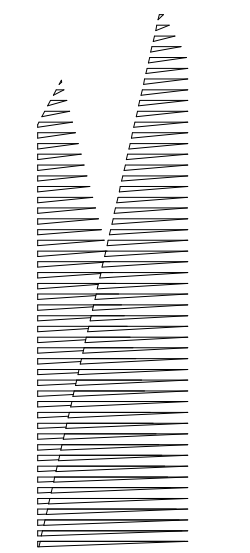
**ELEVATION AT GRID LINE 16.7**

Drawing Number / B/S/C/S Drawing Number  
**S-283.00**

SHEET 81 OF 201







Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

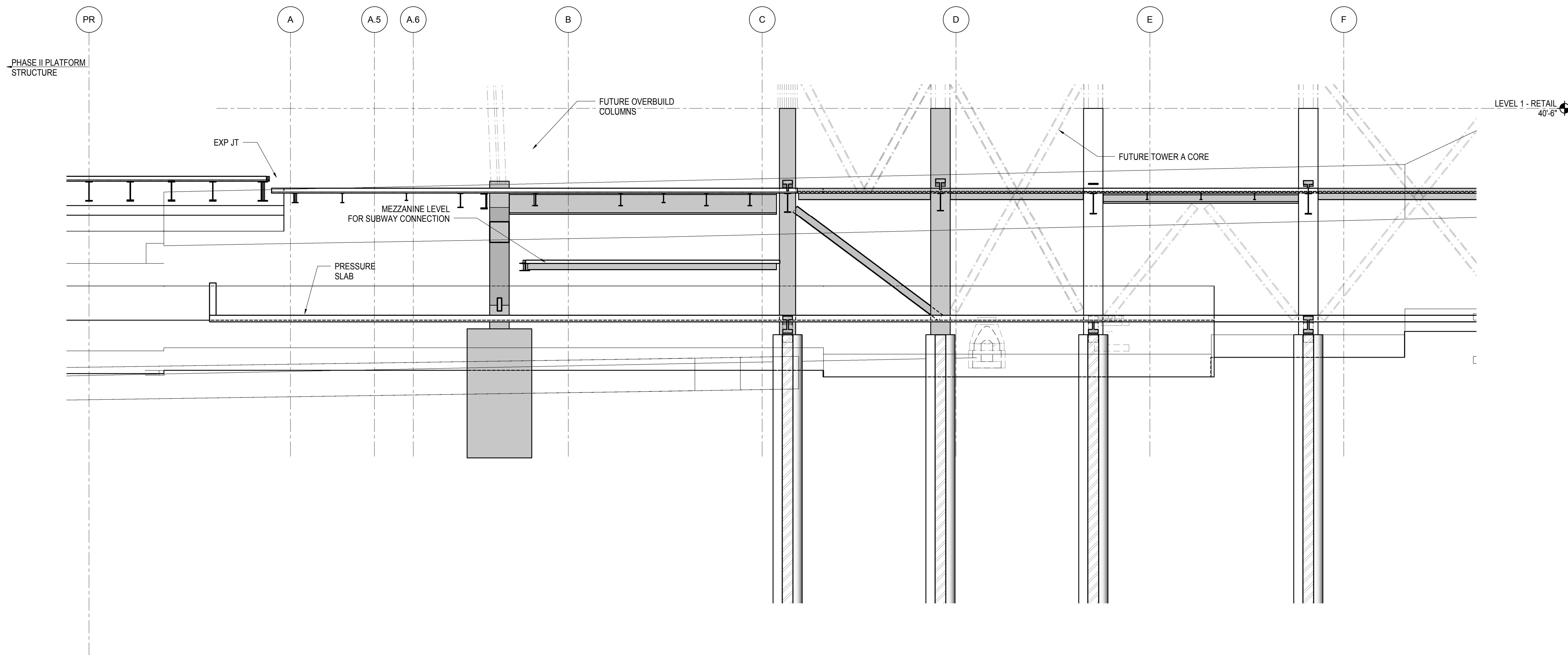
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

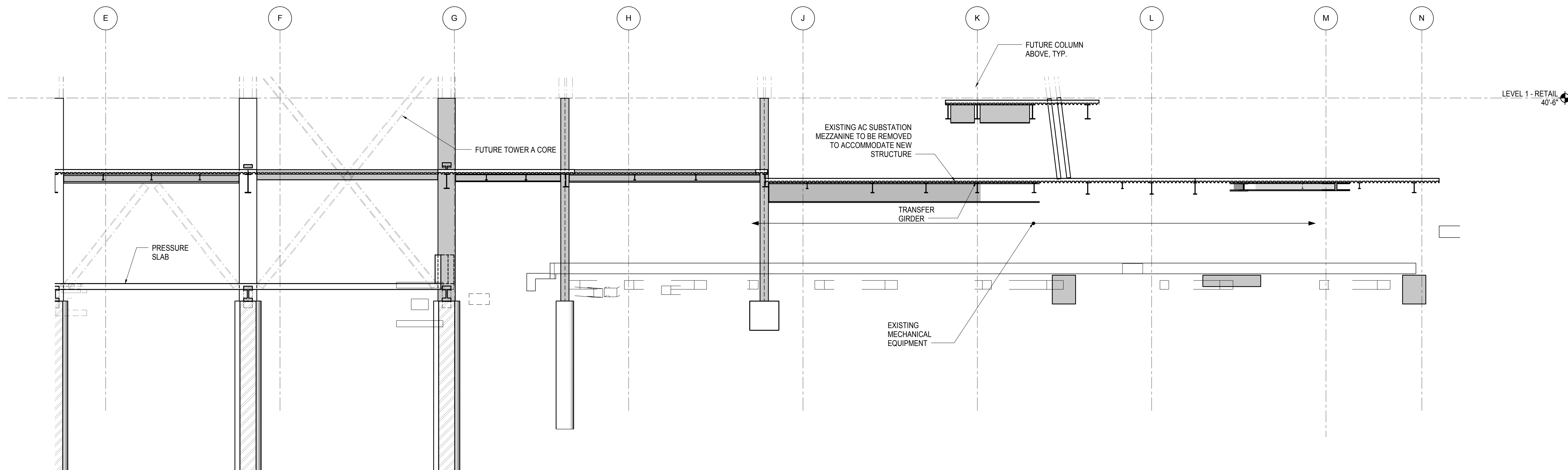
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



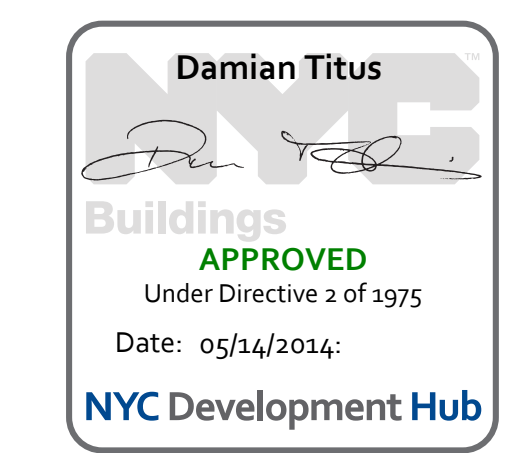
**1 ELEVATION AT GRID 17**  
1/8" = 1'-0"



**2 ELEVATION AT GRID LINE 17**  
1/8" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&U - PLATFORM SUBMISSION	
Δ - DL02 PHASE I STRUCTURAL UPDATE	1/11/2013
NYC DOB FILING	10/4/2013
Δ - DL01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. Plan



Date: 02/15/2013  
Project No: N11330.00  
Drawn By: Author  
Issue Number:

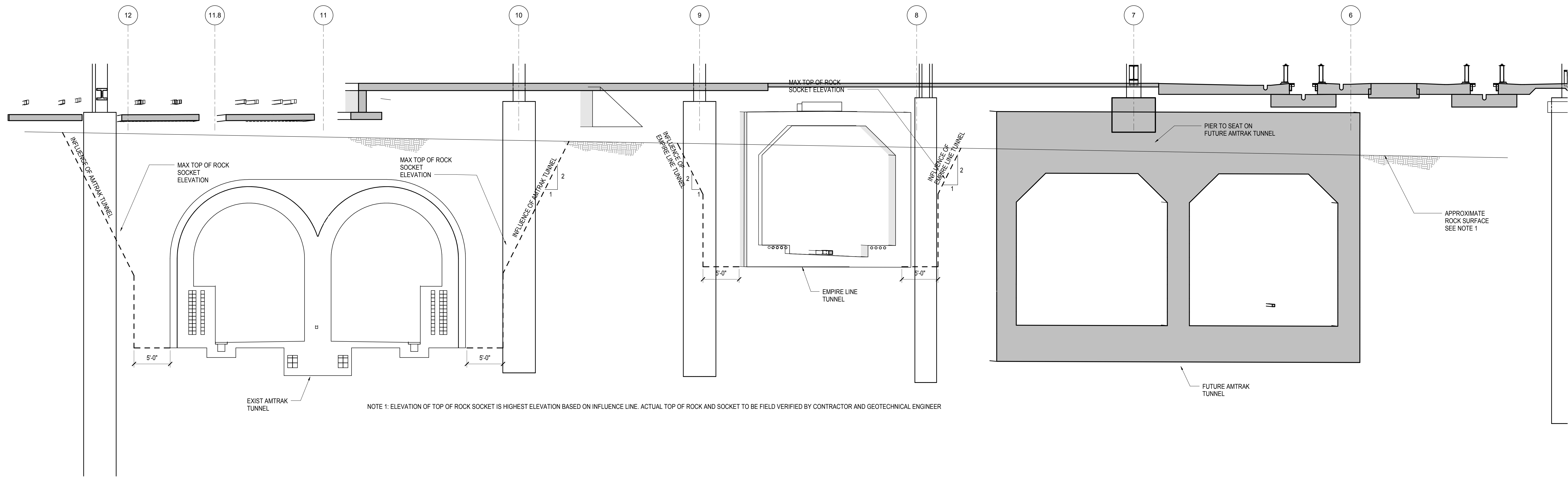
**HYE - PL - S-284.00**

**ELEVATION AT GRID  
LINE 17**

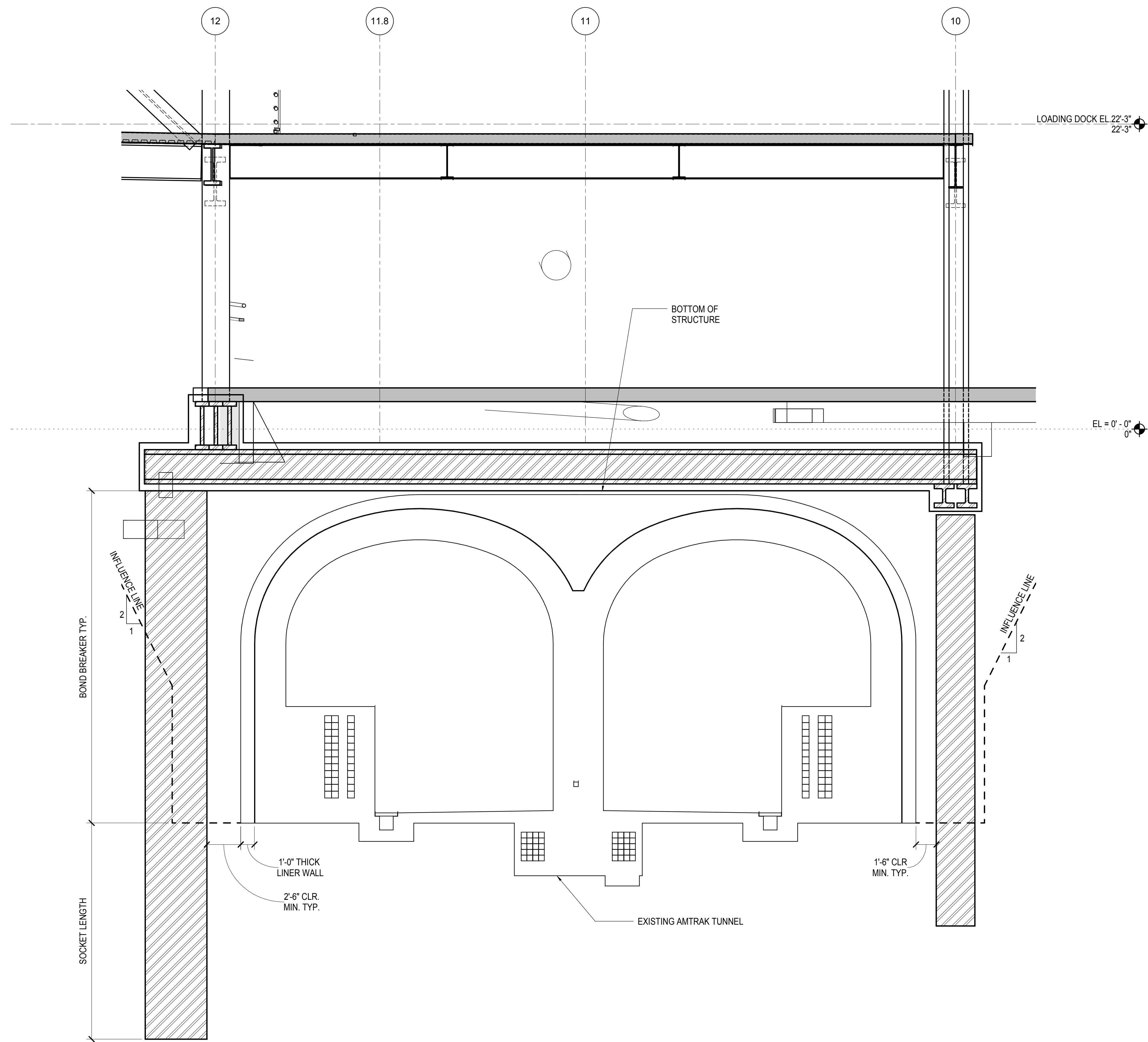
Drawing Number / B/S/C/A Drawing Number  
**S-284.00**







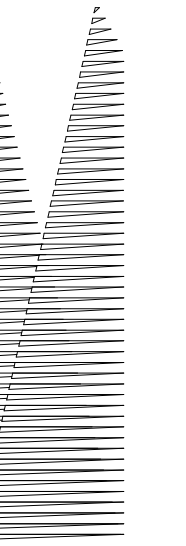
**1 EAST PLATFORM FOUNDATION SECTION**  
3/16" = 1'-0"



**2 TYPICAL SECTION OVER EXIST. AMTRAK TUNNEL**  
1/4" = 1'-0"

**HUDSON YARDS PLATFORM**

Address  
530 WEST 33RD STREET  
NEW YORK, NY



Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

Architect  
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PC Architects & Planning Consultants  
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Structural Engineer  
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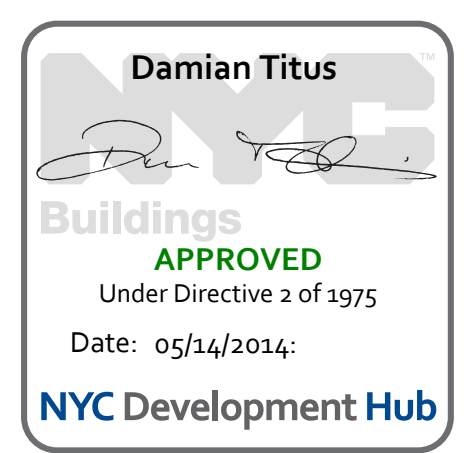
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
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Tel: 212.973.9200 Fax: 212.682.6172

NYC DOB FILING	Date
L.I.R.R. - PRE-FINAL 100%	12/4/2013
M&E - PLATFORM SUBMISSION	11/22/2013
Δ - DL02 PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ - DL01 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE 1 FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev. Plan

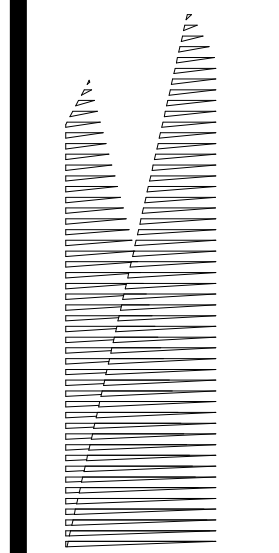


Date: 02/15/2013  
Project No: N11330.00  
Drawn By: Author  
Issue Number: 00000000

**HYE - PL - S-290.00**  
Drawing Title  
**EAST PLATFORM FOUNDATION SECTIONS**

Drawing Number / B/S/C/S Drawing Number  
**S-290.00**





Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Owner  
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Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
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New York, NY 10017  
Tel: 212.708.3600

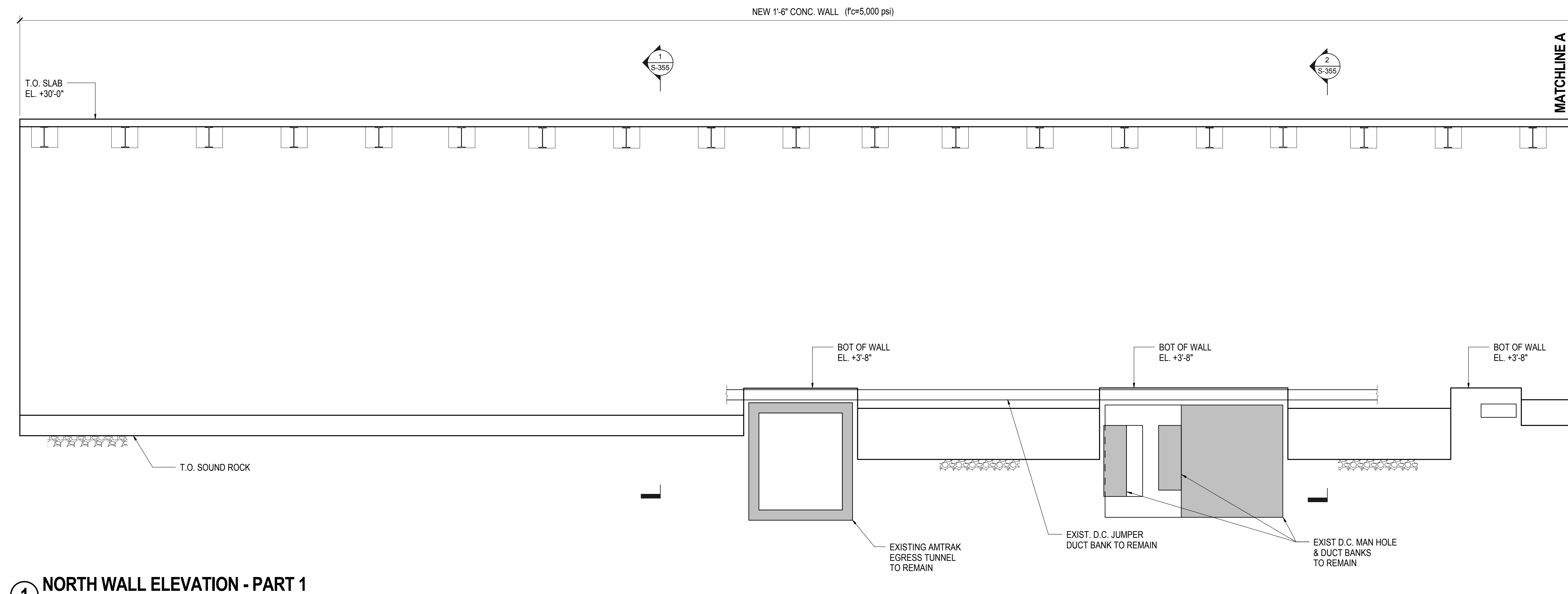
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
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Tel: 212.977.6500 Fax: 212.956.2526

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Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

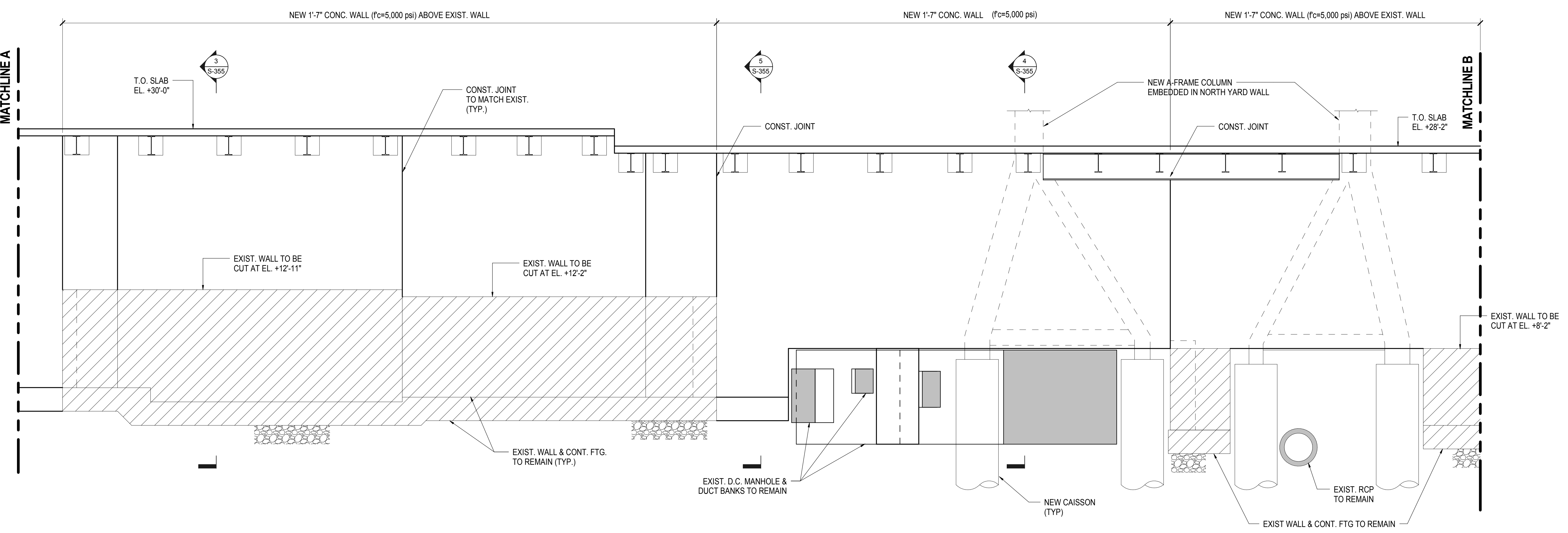
LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



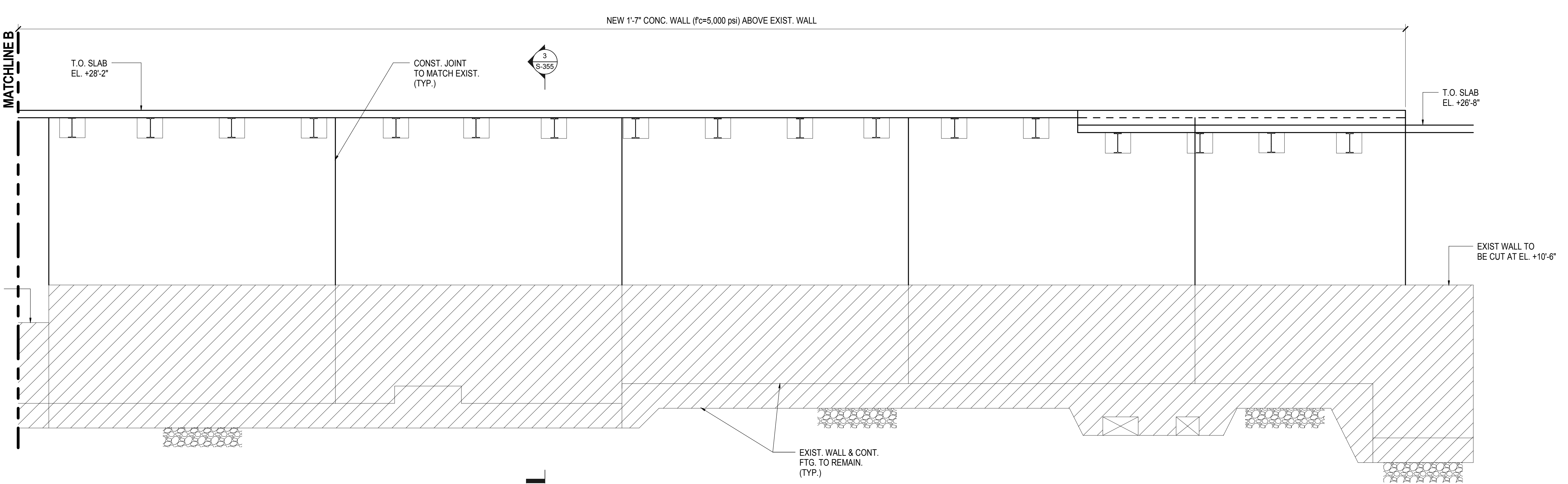
**1 NORTH WALL ELEVATION - PART 1**

3/16" = 1'-0"



**2 NORTH WALL ELEVATION - PART 2**

3/16" = 1'-0"

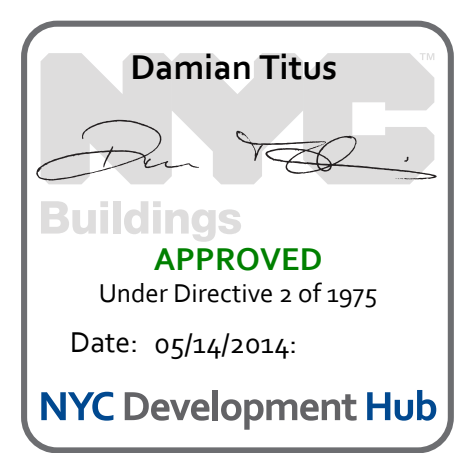
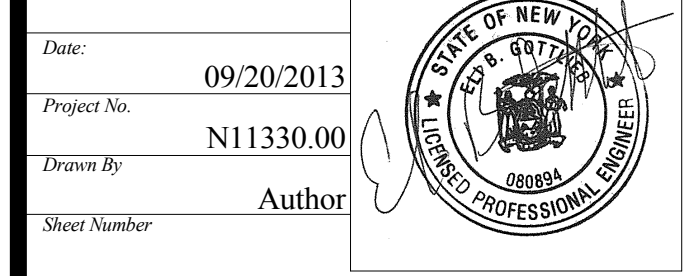


**3 NORTH WALL ELEVATION - PART 3**

3/16" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
Mod - PLATFORM SUBMISSION	
A. D-I-2 PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
A. D-I-2 PHASE I STRUCTURE UPDATE	9/20/2013
Rev	Description

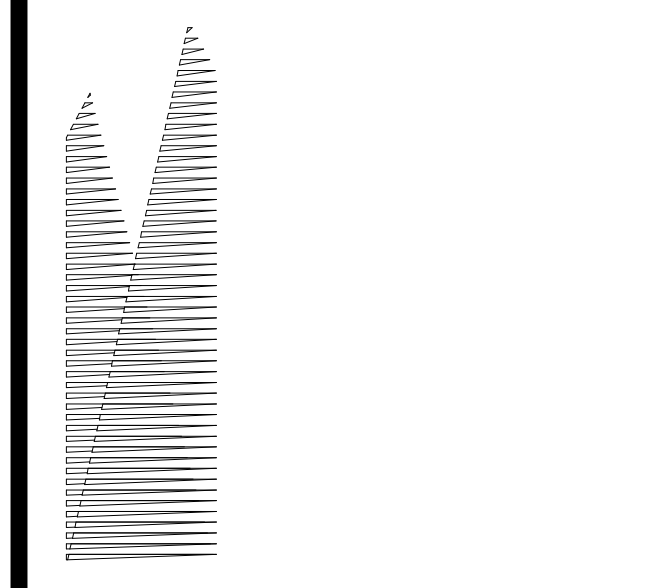
Rev Plot



**HYE -PL -S-291.00**  
NORTH YARD WALL ELEVATION

Drawing Number / B/S/C/N Drawing Number  
**S-291.00**





Client  
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 60 Columbus Circle  
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 PC Architects & Planning Consultants  
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LIRR Ventilation  
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 77 Water Street  
 New York, NY 10005  
 Tel: 212.896.3000

LIRR Substation  
 AECOM  
 605 Third Avenue  
 New York, NY 10158  
 Tel: 212.973-9200 Fax: 212.682.6172

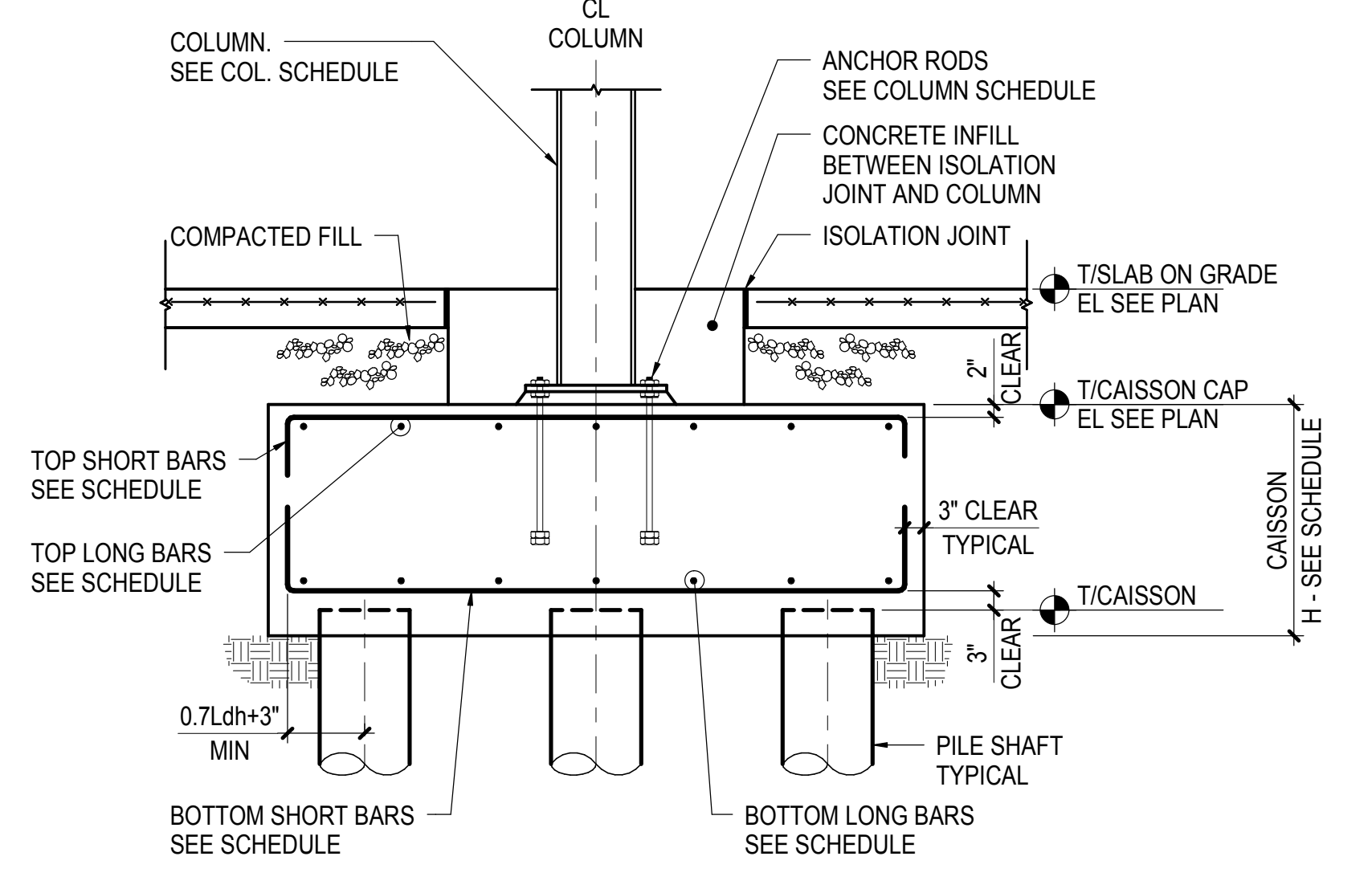
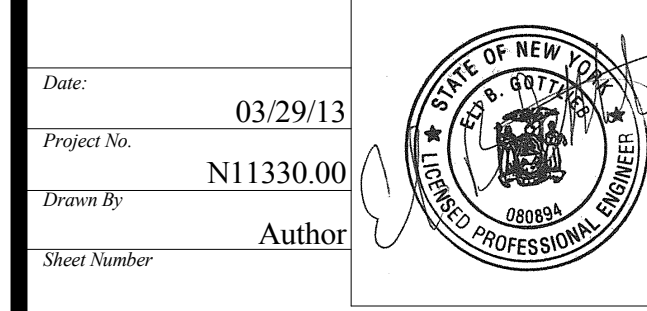
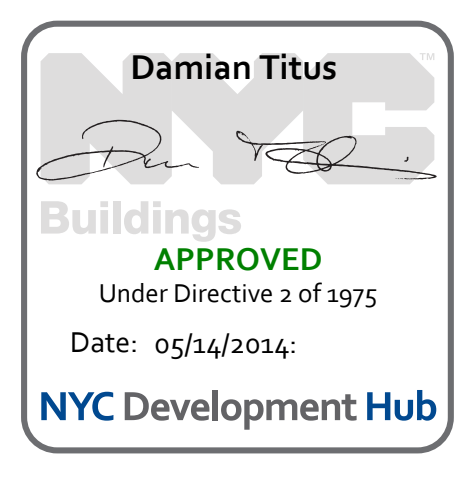
NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
Mod. PLATFORM SUBMISSION	
Δ. DIAG PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ. DIAG PHASE 1 STRUCTURE UPDATE	9/30/2013
LIRR - 30% SUBMISSION	8/29/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
FILED FOR FOUNDATIONS	5/28/2013
LIRR - 60% - PHASE 1 FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev. Description	Date

Fig. Plan

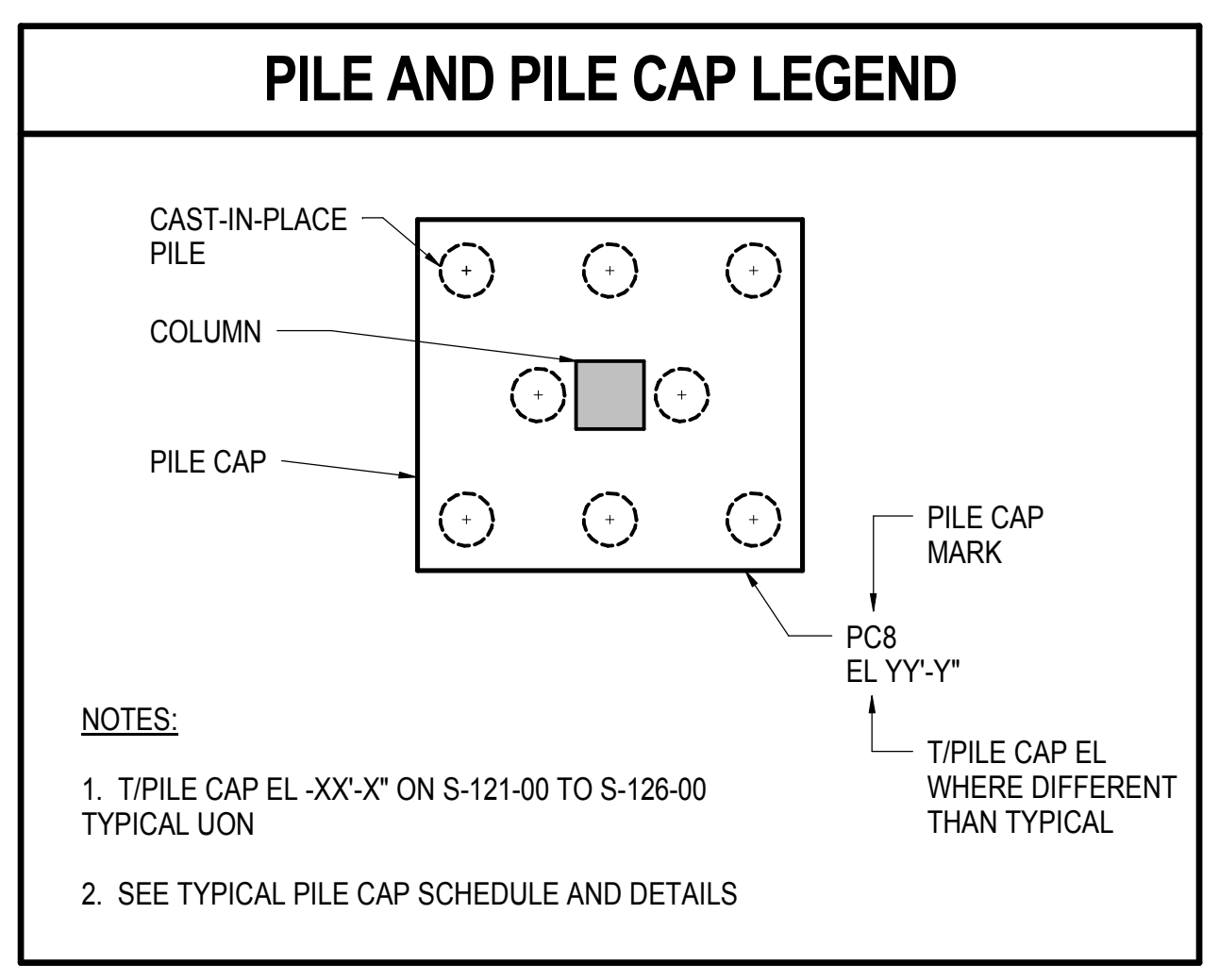
Date: 03/29/13  
 Project No: N11330.00  
 Drawn By: Author  
 Sheet Number: **HYE - PL - S-304.00**

Drawing Title  
**PILE CAP DETAILS & SCHEDULE**

Drawing Number / B/S/C/S Drawing Number  
**S-304.00**



**1 TYPICAL CAST-IN-PLACE PILE CAP SECTION - STEEL COLUMN**  
 NOT TO SCALE



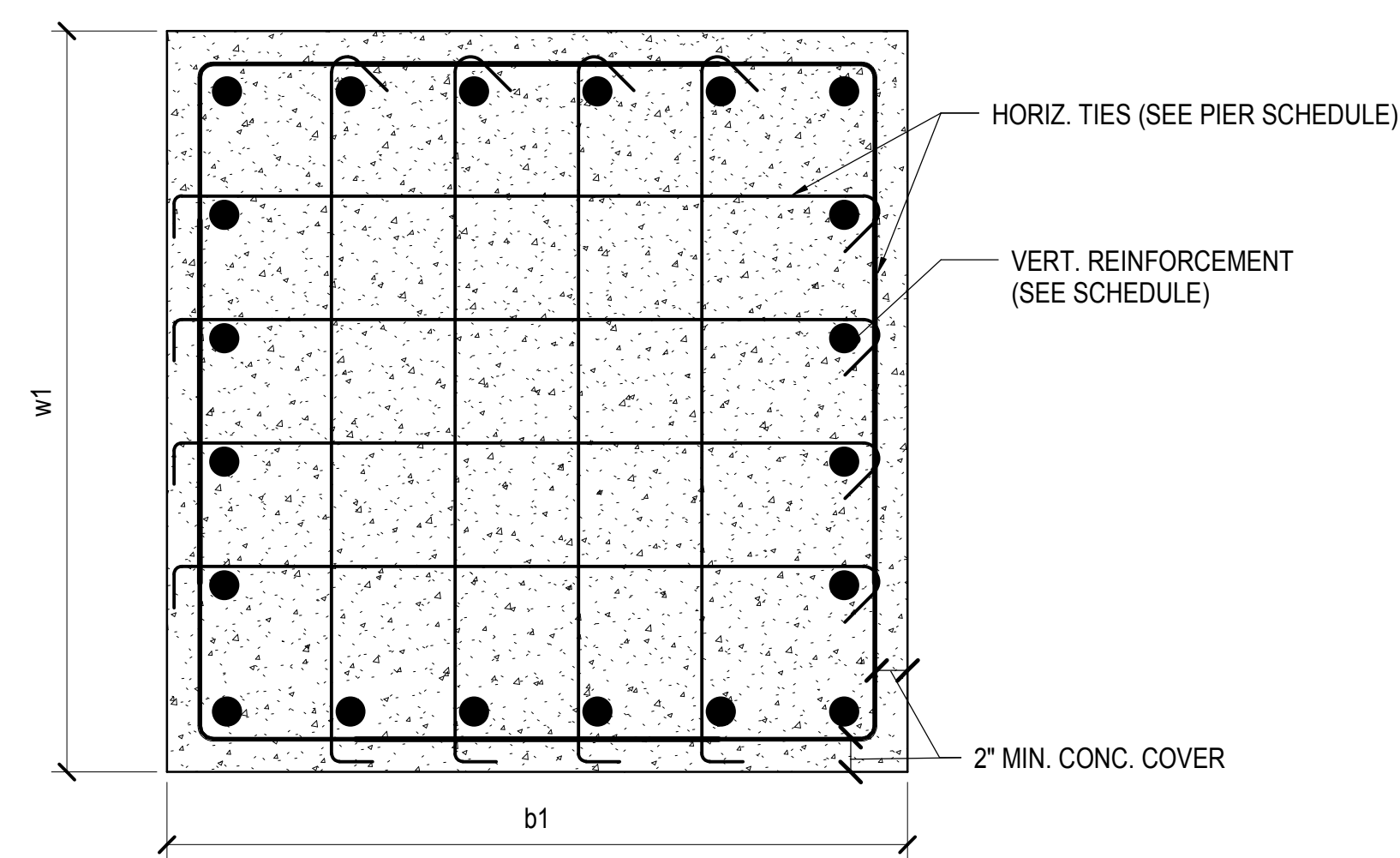
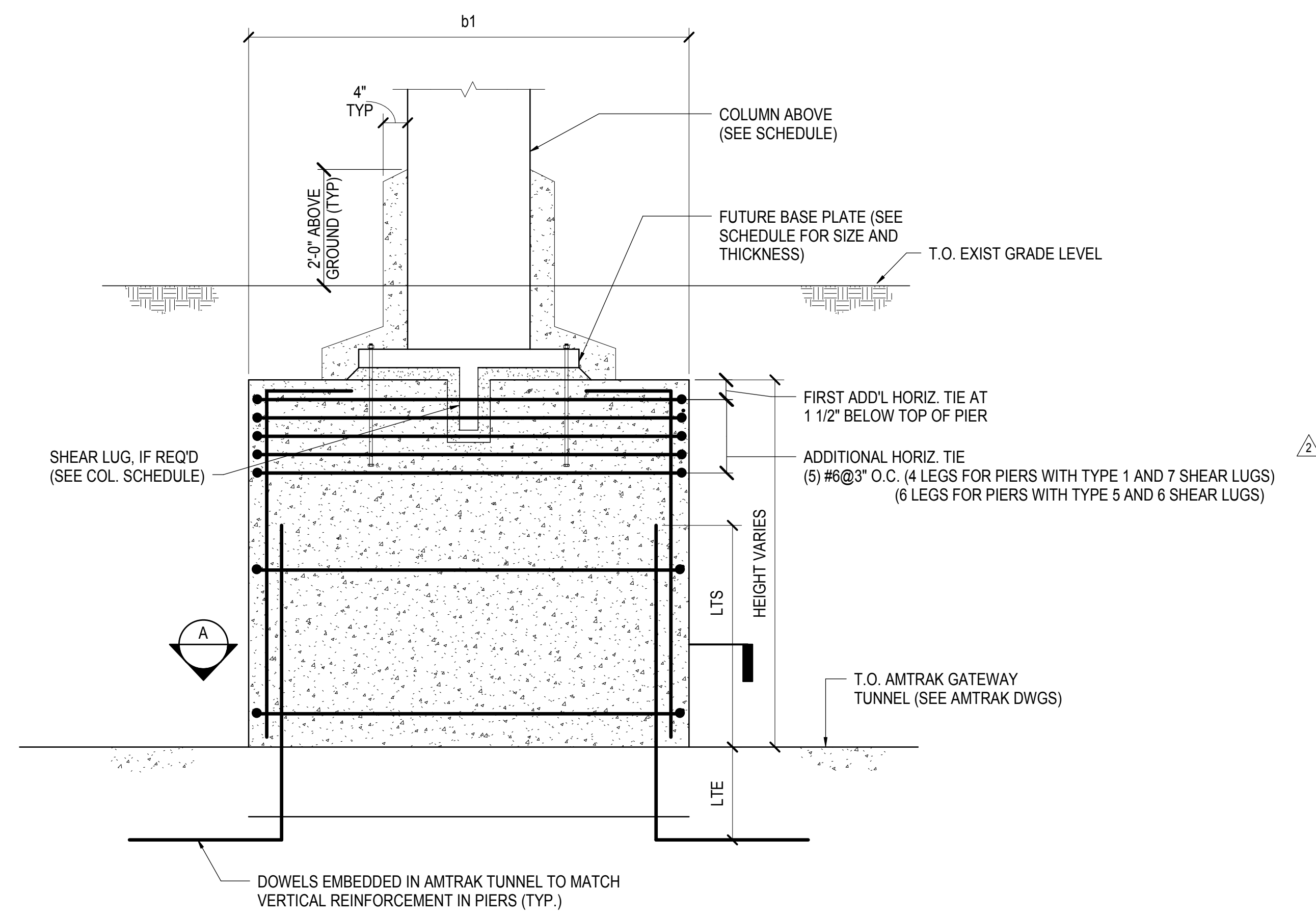
**2 PILE AND PILE CAP LEGEND**  
 NOT TO SCALE

- NOTES:
1. T/PILE CAP EL -'XX'-X" ON S-121-00 TO S-126-00 TYPICAL UON
  2. SEE TYPICAL PILE CAP SCHEDULE AND DETAILS

PILE CAP MARK	PILE TYPE	H (IN)	L (IN)	W (IN)	S (IN)	REINFORCEMENT				REMARKS
						BOTTOM LONG BARS	BOTTOM SHORT BARS	TOP LONG BARS	TOP SHORT BARS	
PC3	C1-1	48	66	62	38					SEE DETAIL FOR LAYOUT
PC4	C1-1	48	52	52	24					
PC8	C1-1	48	100	52	24					

**3 PILE CAP SCHEDULE**  
 NOT TO SCALE



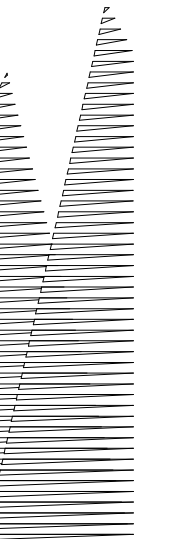


**SECTION A**

**1 PIER OVER FUTURE AMTRAK TUNNEL - TYPE A**  
3/4" = 1'-0"

PIER OVER AMTRAK TUNNEL SCHEDULE				
PIER TYPE	b1	w1	REINFORCEMENT	REMARKS
PIER - A1	4'-0"	4'-0"	20- #11, #4 TIES @12"	10-KSI CONCRETE
PIER - A2	6'-0"	6'-0"	36- #11, #4 TIES @12"	10-KSI CONCRETE
PIER - A3	4'-0"	10'-0"	40- #11, #4 TIES @12"	10-KSI CONCRETE
PIER - A4	6'-0"	10'-0"	56- #11, #4 TIES @12"	10-KSI CONCRETE
PIER - A5	7'-6"	4'-6"	36- #11, #4 TIES @12"	10-KSI CONCRETE
PIER - D	2'-0"	2'-0"	8- #8, #3 TIES @10" o.c.	5-KSI CONCRETE

**PIER SCHEDULE**  
NOT TO SCALE



**Client**  
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60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

**Owner**  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
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Tel: 212.986.7514 Fax: 212.986.7510

**Construction Manager**  
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**Architect**  
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**Structural Engineer**  
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New York, NY 10010  
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**LIRR Ventilation**  
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77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

**LIRR Substation**  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

NYC DOB FILING	Date
L.I.R.R. - PRE-FINAL 100%	12/4/2013
Mod. PLATFORM SUBMISSION	11/22/2013
Δ. DEQ PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ. DEQ PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 50% SUBMISSION	8/29/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
FILED FOR FOUNDATIONS	5/28/2013
LIRR - 60% - PHASE 1 FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013

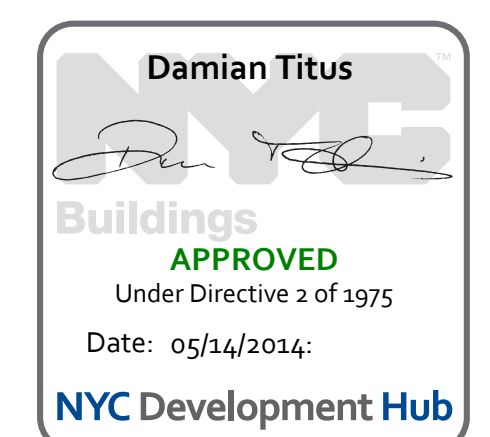
Rev. Plan Date

Date: 03/29/2013  
Project No: N11330.00  
Drawn By: Author  
Sheet Number: Author

**HYE - PL - S-305.00**

**PIER DETAILS & SCHEDULES**

Drawing Number / B/S/C/S Drawing Number  
**S-305.00**

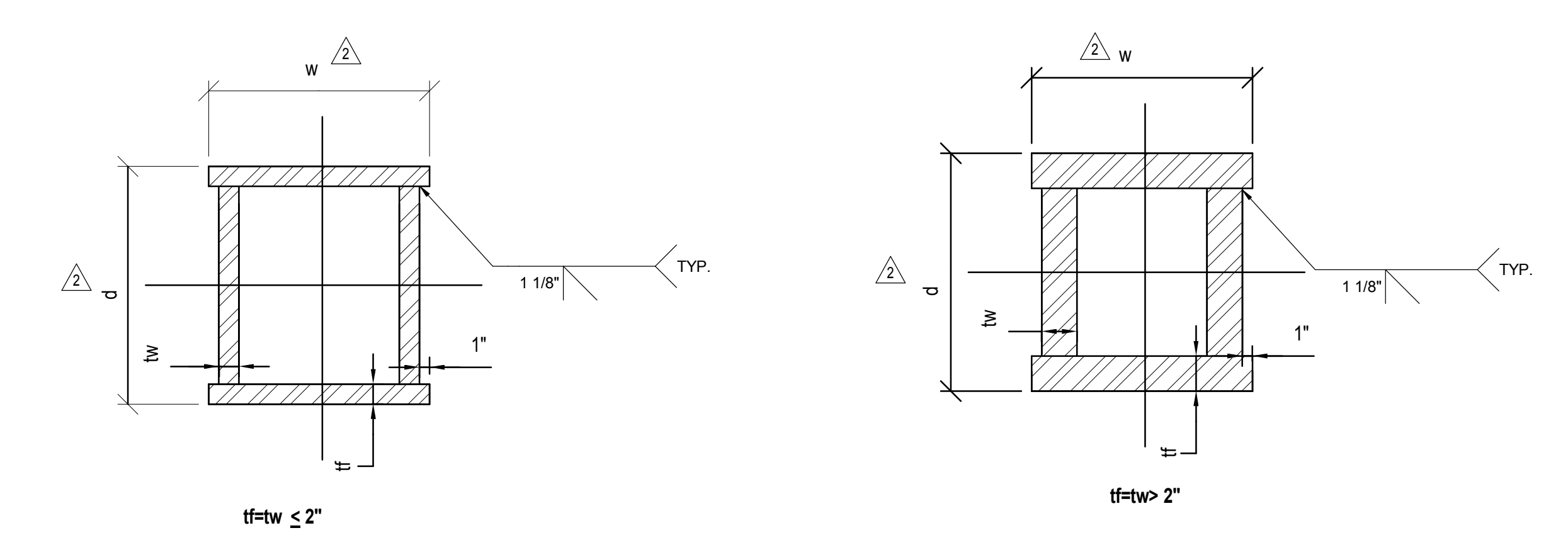
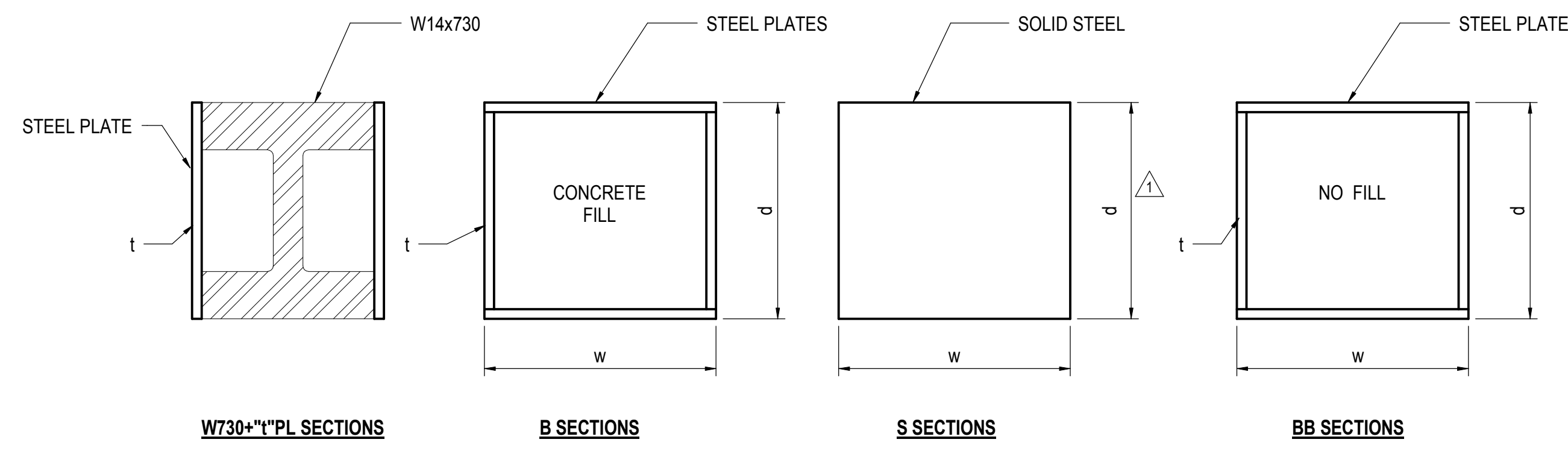




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S-16X36	16	36
S-16X40	16	40
S-18X18	18	18
S-18X24	18	24
S-18X30	18	30
S-18X36	18	36
S-20X20	20	20
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S-20X36	20	36
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S-20X44	20	44
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S-20X60	20	60
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S-24X16	24	20
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S-24X28	24	28
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S-24X968	24	968
S-24X972	24	972
S-24X976	24	976
S-24X980	24	980
S-24X984	24	984
S-24X988	24	988
S-24X992	24	992
S-24X996	24	996
S-24X1000	24	1000

TYPE	WIDTH "w" <sup>1</sup>	DEPTH "d" <sup>1</sup>	PLATE THICKNESS "t" <sup>1</sup>
B-20x20x1.25	20	20	1.25
B-20x20x1.5	20	20	1.5
B-20x20x1.75	20	20	1.75
B-20x20x2	20	20	2.0
B-20x20x2.5	20	20	2.5
B-20x20x3	20	20	3.0
B-20x20x3.5	20	20	3.5
B-20x20x4	20	20	4.0
B-24x24x1.25	24	24	1.25
B-24x24x1.5	24	24	1.5
B-24x24x1.75	24	24	1.75
B-24x24x2	24	24	2.0
B-24x24x2.5	24	24	2.5
B-24x24x3	24	24	3.0
B-24x24x3.5	24	24	3.5
B-24x24x4	24	24	4.0

<sup>1</sup> SEE COLUMN SECTION DETAIL FOR BUILT-UP BOX SECTION (B-SECTIONS)

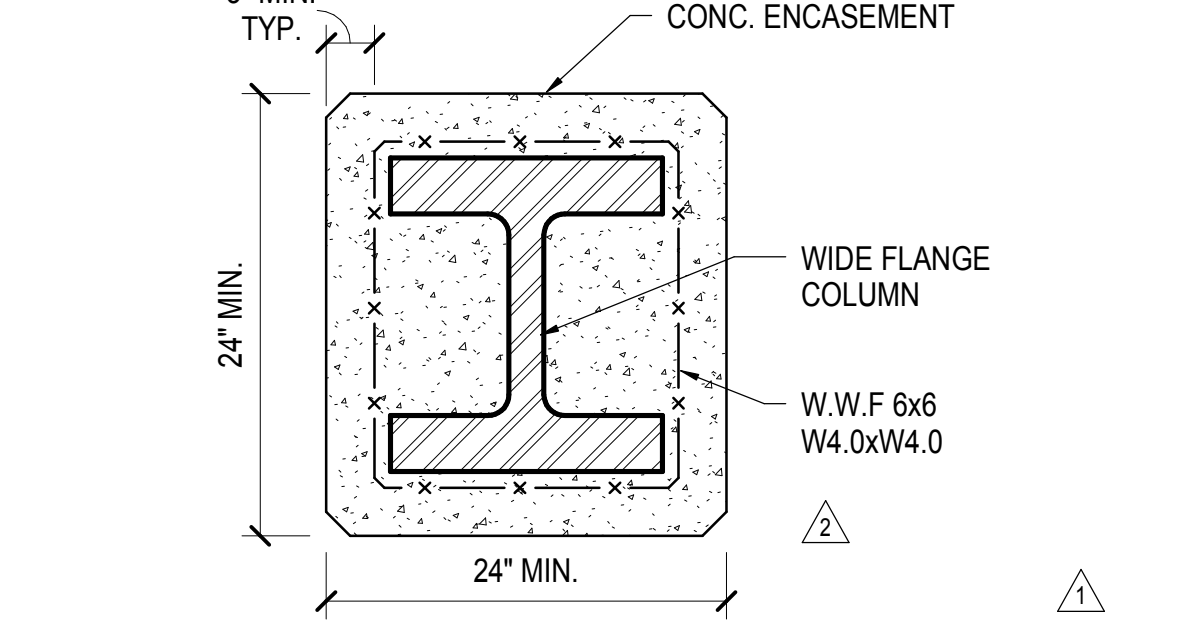
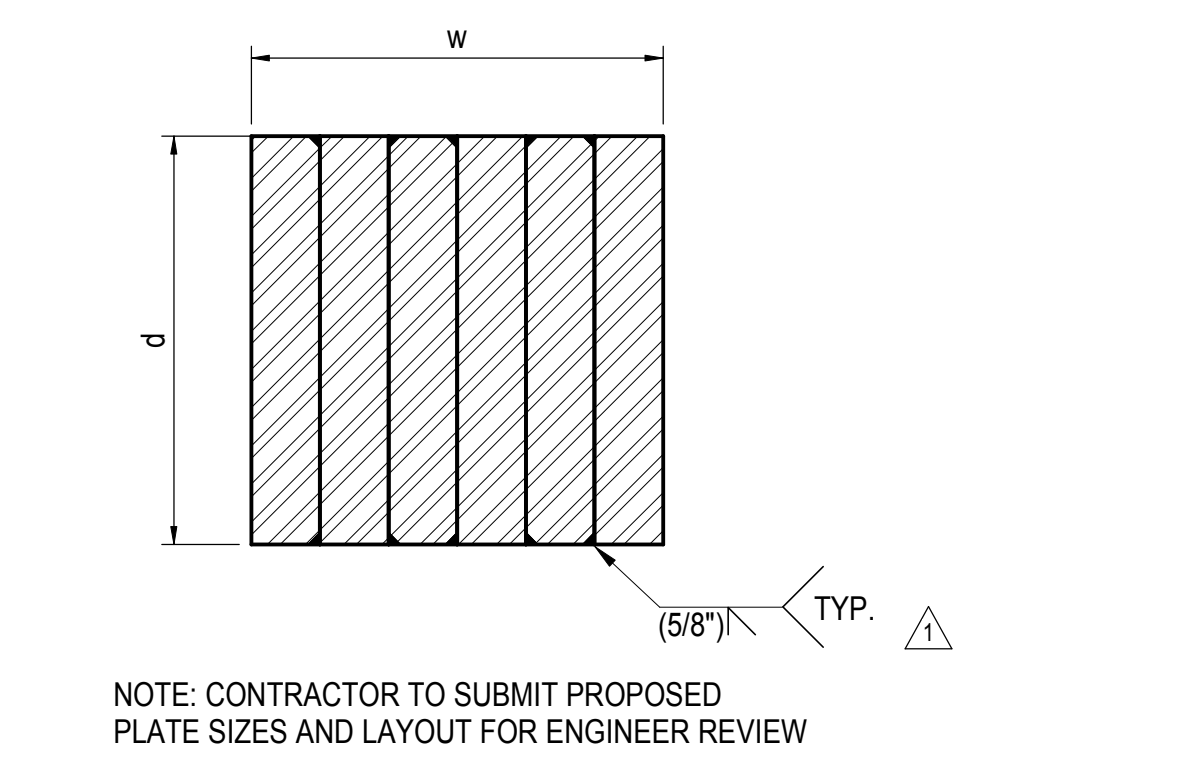
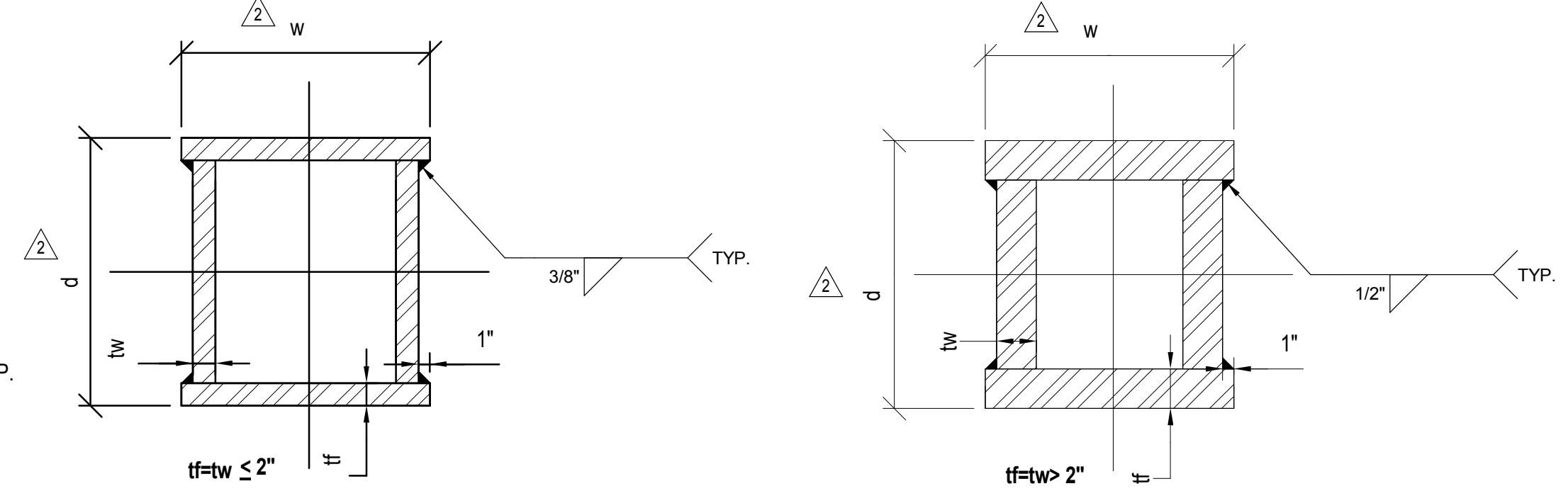
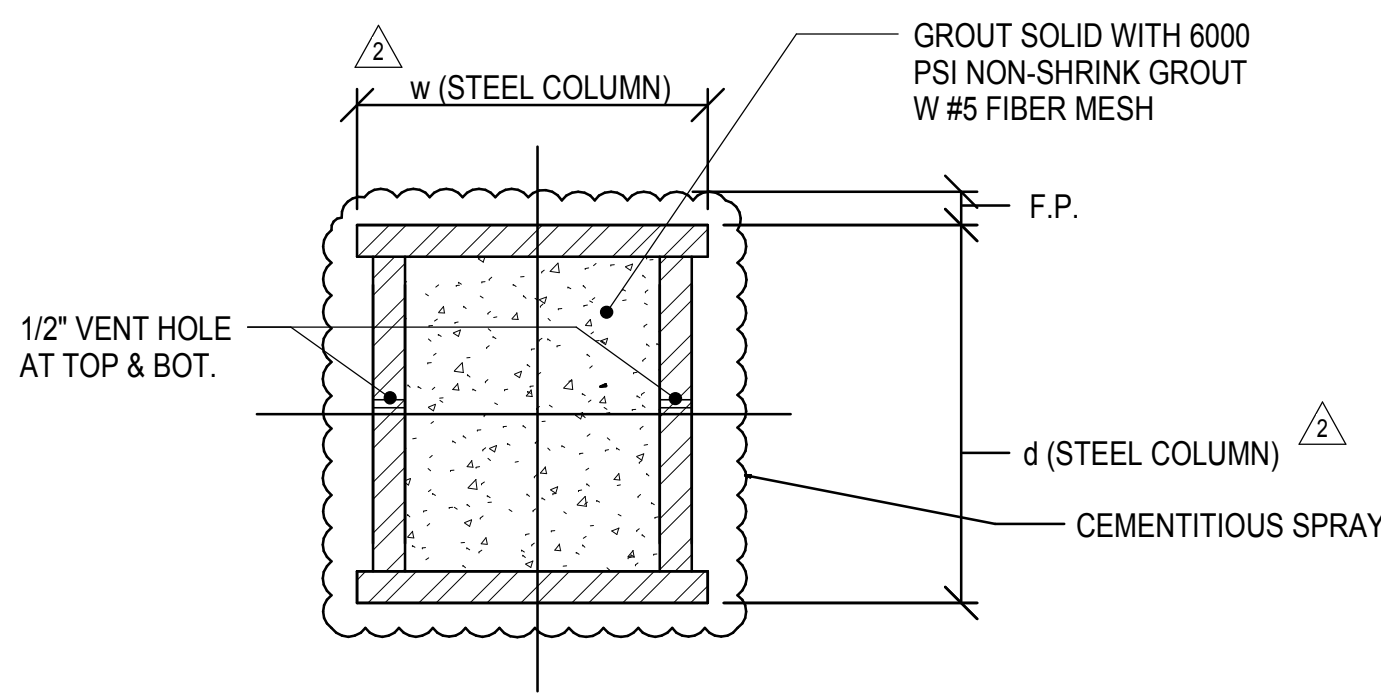


1 BUILT-UP BOX SECTION TABLE (B-SECTIONS)  
NOT TO SCALE

3 COLUMN SECTION TYPES  
1" = 1'-0"

4 TYPICAL STEEL COLUMN SECTION FOR tw=tf<=2" (UNTIL 8' ABOVE T.O.R.)  
1" = 1'-0"

5 TYPICAL STEEL COLUMN SECTION FOR tw=tf>2" (UNTIL 8' ABOVE T.O.R.)  
1" = 1'-0"



7 TYPICAL SECTION OF BOX COLUMN  
1" = 1'-0"

8 TYPICAL STEEL COLUMN SECTION FOR tw=tf<=2" (ABOVE 8' FROM T.O.R.)  
1" = 1'-0"

9 TYPICAL STEEL COLUMN SECTION FOR tw=tf>2" (ABOVE 8' FROM T.O.R.)  
1" = 1'-0"

10 TYPICAL SECTION OF BOX COLUMN: SOLID SHAPE  
3/4" = 1'-0"

11 TYPICAL W SHAPE COLUMN ENCASED IN CONCRETE  
1" = 1'-0"

1 SOLID BOX SECTIONS TABLE (S-SECTIONS)  
NOT TO SCALE

TYPE	PLATE THICKNESS ("t") <sup>1</sup>
W14x730 + 0.5" PL	0.5
W14x730 + 1.0" PL	1.0
W14x730 + 1.5" PL	1.5
W14x730 + 2.0" PL	2.0
W14x730 + 2.5" PL	2.5
W14x730 + 3.0" PL	3.0
W14x730 + 3.5" PL	3.5
W14x730 + 4.0" PL	4.0

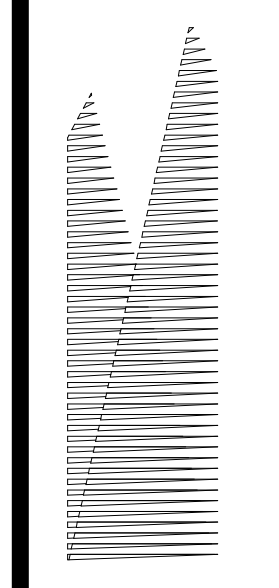
<sup>1</sup> SEE COLUMN SECTION DETAIL FOR BUILT-UP W SECTIONS

TYPE	WIDTH "w" <sup>1</sup>	DEPTH "d" <sup>1</sup>	PLATE THICKNESS "t" <sup>1</sup>
BB-36x36x5.5	36	36	5.5
BB-36x36x6	36	36	6.0
BB-36x36x6.5	36	36	6.5
BB-36x36x8	36	36	8.0

<sup>1</sup> SEE COLUMN SECTION DETAIL FOR BUILT-UP BOX SECTION (BB-SECTIONS)

12 BUILT-UP BOX SECTION TABLE (NO FILL)(BB-SECTIONS)  
NOT TO SCALE

6 BUILT-UP W SECTIONS TABLE  
NOT TO SCALE



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60 Columbus Circle  
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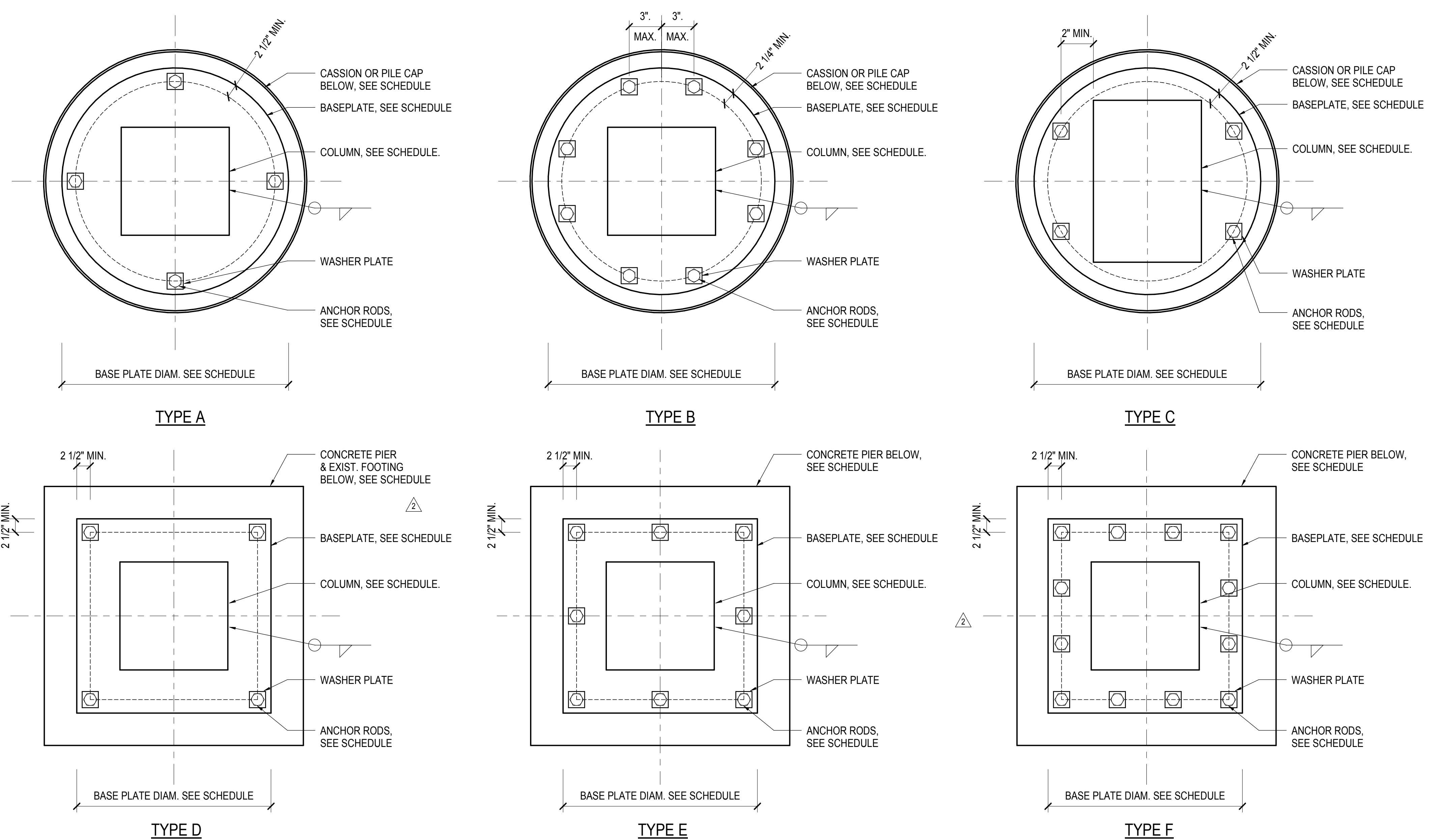
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LIRR Ventilation  
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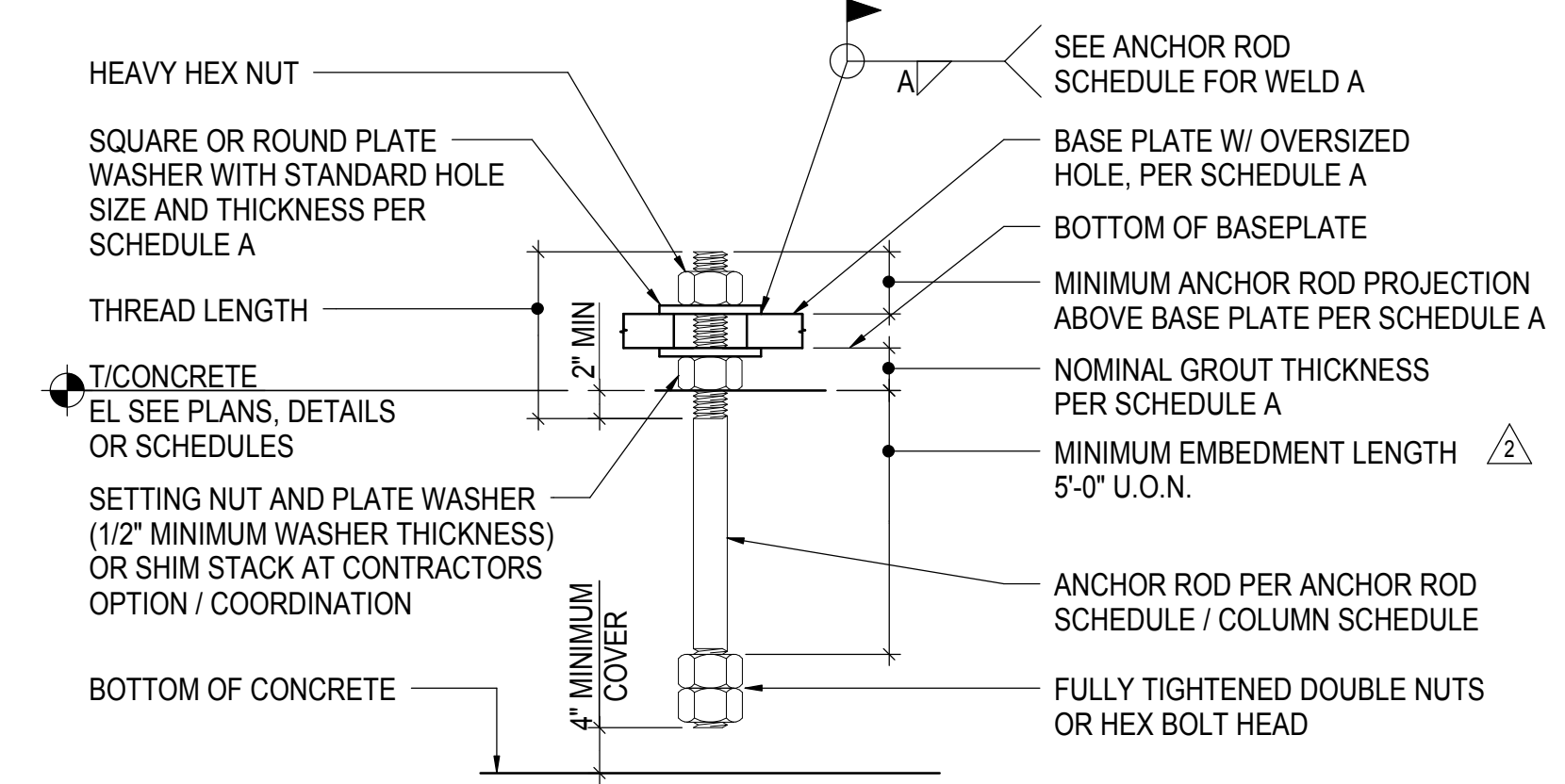
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L.I.R.R. - PRE-FINAL 100%	11/22/2013</





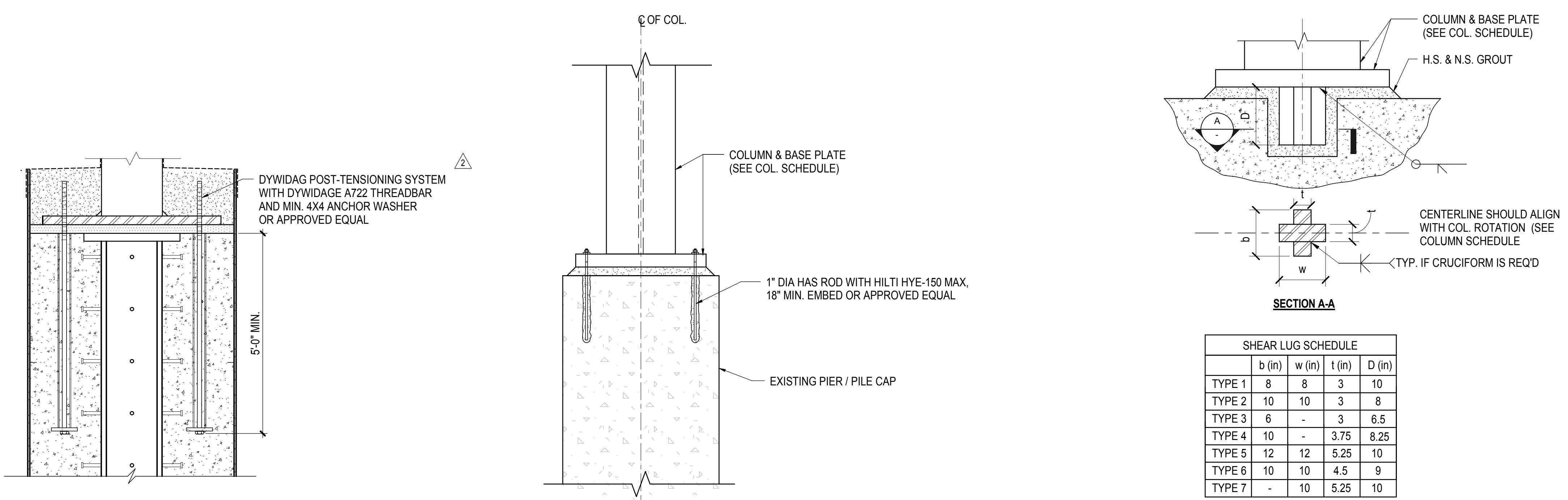
- NOTES:**
- SEE COLUMN SCHEDULE FOR BASE PLATE SIZE, ORIENTATION AND THICKNESS
  - BASE PLATE THICKNESS SHOWN ON SCHEDULE IS A MIN. DIMENSION AFTER ALL MILLING IS COMPLETED
  - COLUMN STABILITY DURING ERECTION IS RESPONSIBILITY OF CONTRACTOR
  - SEE COLUMN SCHEDULE FOR ANCHOR ROD SIZE AND SEE ANCHOR ROD DETAIL FOR ADDITIONAL INFORMATION
  - CONTRACTOR'S OPTION TO FIELD WELD COLUMNS TO BASEPLATES FOR HEAVY BASEPLATES
  - EXIST. ANCHOR ROD OF EXIST. FOOT SHALL BE CUT FLASH WITH TOP OF FOOT.



SCHEDULE A					
ANCHOR ROD DIAMETER	BASE PL HOLE DIA	MIN WASHER SIZE	MIN WASHER 1	MIN PROJ ABOVE BASE PL	NOMINAL GROUT THICKNESS
3/4"	1-5/16"	2"	1/4"	3"	2"
1"	1-13/16"	3"	3/8"	3-1/2"	2"
1-1/4"	2-1/16"	3"	1/2"	4"	3"
1-3/8"	2-3/16"	3-1/2"	1/2"	4"	3"
1-1/2"	2-5/16"	3-1/2"	1/2"	4"	3"
1-3/4"	2-3/4"	4"	3/4"	5"	3"
2"	3-1/4"	5"	3/4"	5"	4"
2-1/2"	3-3/4"	5-1/2"	1"	5-1/2"	4"

② TYPICAL ANCHOR ROD DETAIL  
3/4" = 1'-0"

① ANCHOR RODS LOCATION PLAN  
1" = 1'-0"



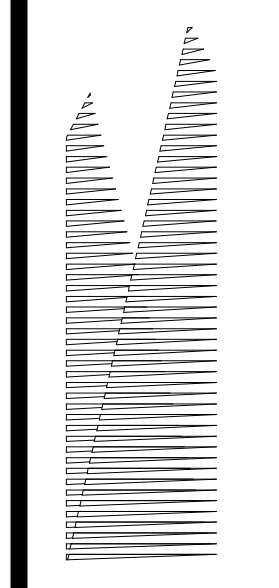
③ POST-TENSION ANCHOR ROD IN CAISSON  
3/4" = 1'-0"

④ TYPICAL POST-INSTALLED ANCHOR BOLT  
3/4" = 1'-0"

⑤ SHEAR LUG DETAIL  
NOT TO SCALE

SHEAR LUG SCHEDULE				
TYPE	b (in)	w (in)	t (in)	D (in)
TYPE 1	8	8	3	10
TYPE 2	10	10	3	8
TYPE 3	6	-	3	6.5
TYPE 4	10	-	3.75	8.25
TYPE 5	12	12	5.25	10
TYPE 6	10	10	4.5	9
TYPE 7	-	10	5.25	10

Address  
530 WEST 33RD STREET  
NEW YORK, NY



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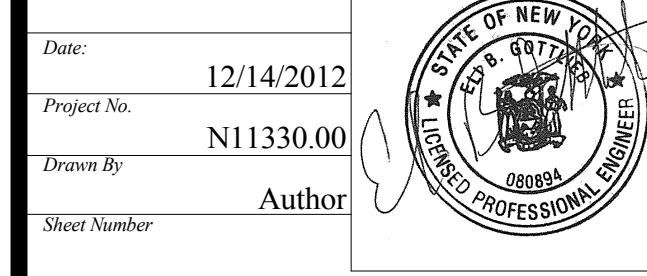
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605 Third Avenue  
New York, NY 10158  
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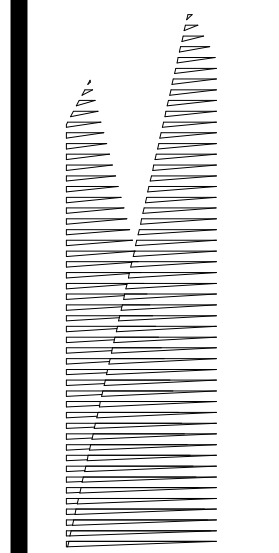
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M&E - PLATFORM SUBMISSION		
Δ, DL-02 PHASE 1 STRUCTURAL UPDATE		11/7/2013
NYC DOB FILING		10/4/2013
Δ, DL-01 PHASE 1 STRUCTURE UPDATE		9/20/2013
L.I.R.R. - 90% SUBMISSION		8/09/2013
NYC DOB FILING		6/17/2013
L.I.R.R. - 60% SUBMISSION		5/29/2013
L.I.R.R. - 60% - PHASE 1 FDNS		3/29/2013
L.I.R.R. - 30% SUBMISSION		2/15/2013
NYC DOB FILING		1/22/2013



**Damian Titus**  
Buildings  
APPROVED  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub

Date: 12/14/2012  
Project No: N11330.00  
Drawn By: Author  
Sheet Number:  
**HYE - PL - S-321.00**  
Drawing Title:  
**COLUMN DETAILS II**





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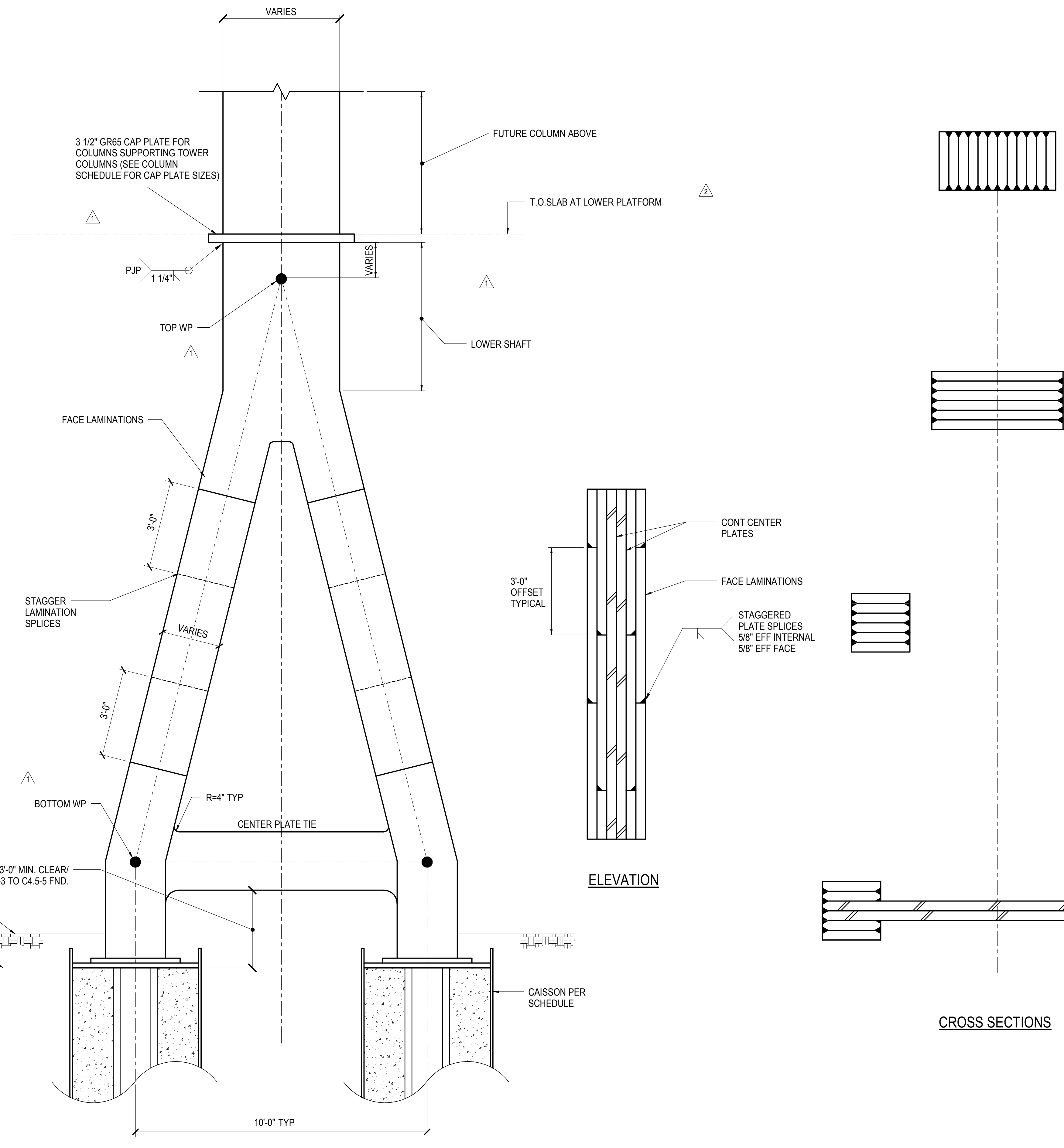
**Structural Engineer**  
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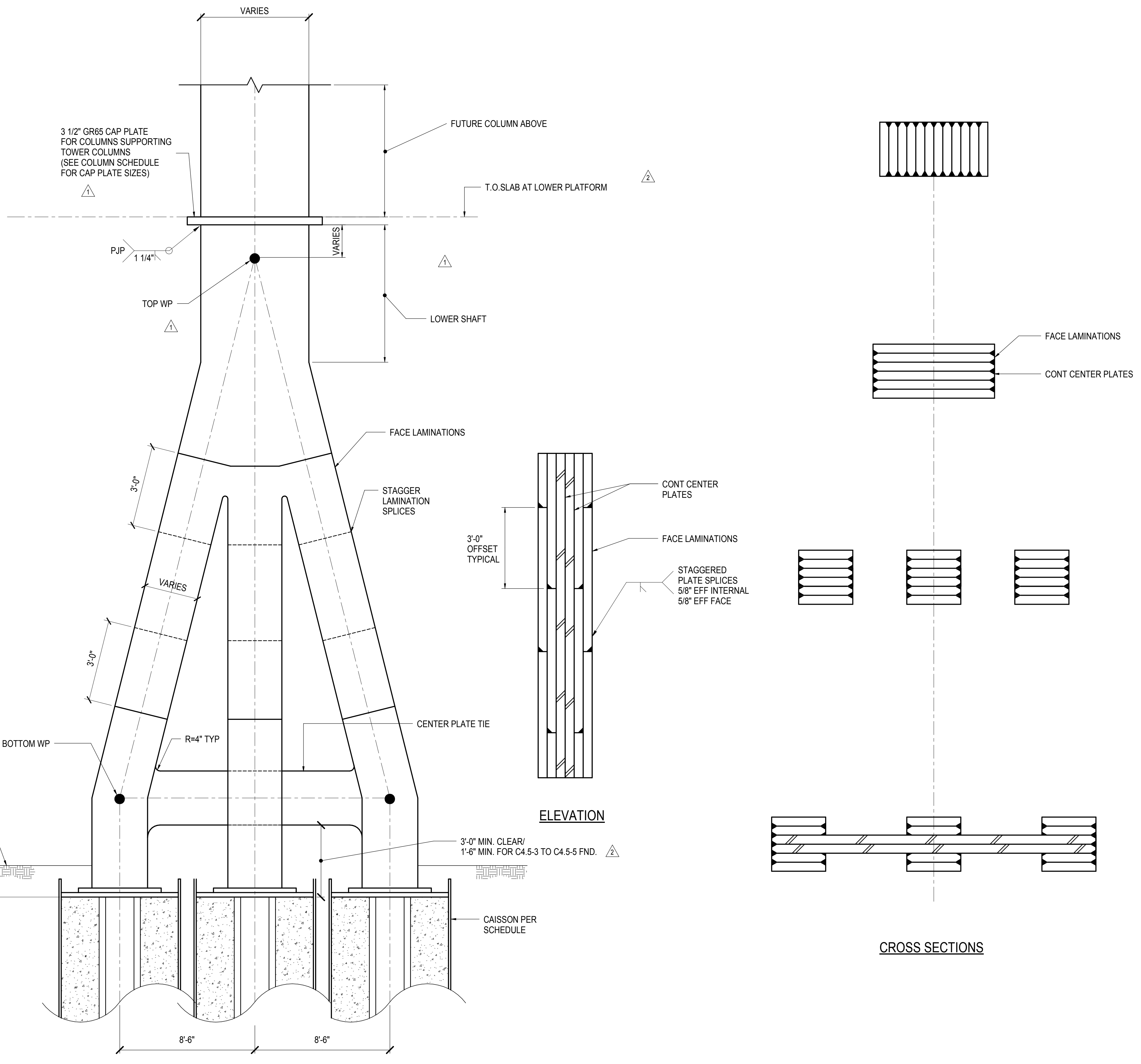
**Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security**  
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Tel: 212.896.3000

**LIRR Substation**  
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New York, NY 10158  
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**1 A FRAME DOUBLE COLUMN OPTIONS**  
1/2" = 1'-0"



**2 A FRAME TRIPLE COLUMN OPTIONS**  
1/2" = 1'-0"

LOCATION REFERENCE	COLUMN SIZE		TIE	LOWER SHAFT	TOP WP ELEVATION	BOTTOM WP ELEVATION	TIE AXIAL TENSION FORCE (KIPS)
	OUTER LEGS	INNER LEG					
A/14	(2) 24"x24"		8"x16"	24"x40"	25'-11"	8'-2"	5800
B/14	(2) 24"x28"	24"x24"	8"x24"	24"x60"	25'-11"	8'-0"	9200
C/14	(2) 24"x28"	24"x24"	8"x24"	24"x60"	25'-11"	7'-6"	5900
D/14	(2) 24"x24"		12"x16"	24"x40"	25'-11"	6'-2"	5900
E/14	(A) 20"x36", (B) 20"x28"		20"x48"	20"x48"	25'-11"	5'-10"	5400
G/14	(A) 20"x24", (B) 20"x48"		4"x28"	20"x60"	25'-11"	6'-5"	5600
A/14.8	(2) 24"x24"		8"x16"	24"x40"	25'-11"	8'-2"	4500
C.9/15	(A) 12"x28", (B) 24"x28"		12"x16"	28"x28"	26'-6"	6'-10"	3400
D.8/15	(A) 20"x28", (B) 20"x28"		12"x16"	28"x28"	26'-6"	6'-10"	8600
E.8/15	(A) 16"x28", (B) 20"x28"		12"x16"	24"x28"	26'-6"	6'-10"	4500
F.9/15	(A) 16"x28", (B) 20"x28"		12"x16"	24"x28"	26'-6"	10'-4"	4300
C/15.3	(A) 24"x16", (B) 24"x32"		8"x16"	24"x36"	25'-11"	7'-4"	6000
B/15.5	(A) 24"x32", (B) 24"x20"		8"x20"	24"x36"	25'-11"	7'-10"	8000
B/16	(2) 36"x20"	36"x16"	12"x16"	36"x36"	25'-9"	10'-2"	8200
A/16.5	(2) 36"x20"		12"x16"	36"x36"	25'-9"	10'-2"	6200
A.8/17	(A) 28"x32", (B) 20"x32"		8"x24"	32"x32"	25'-9"	10'-6"	7500

**3 A-FRAME COLUMN TABLE**  
NOT TO SCALE

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
Model - PLATFORM SUBMISSION	
Δ, DEL2 PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ, DEL1 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FEEDS	3/29/2013
Rev	Description

Rev Plot

Date: 03/29/2013  
Project No: N11330.00  
Author:

**NYC DOB FILING**  
Approved Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub

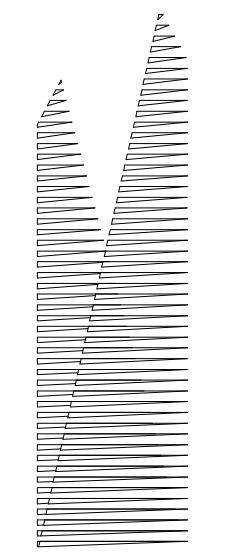
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Drawing Title:  
**A-FRAME COLUMN DETAILS**

Drawing Number / B/S/C/S Drawing Number  
**S-322.00**

SHEET 97 OF 201

S-322.00  
11/22/2013 11:06:48 AM  
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Construction Manager  
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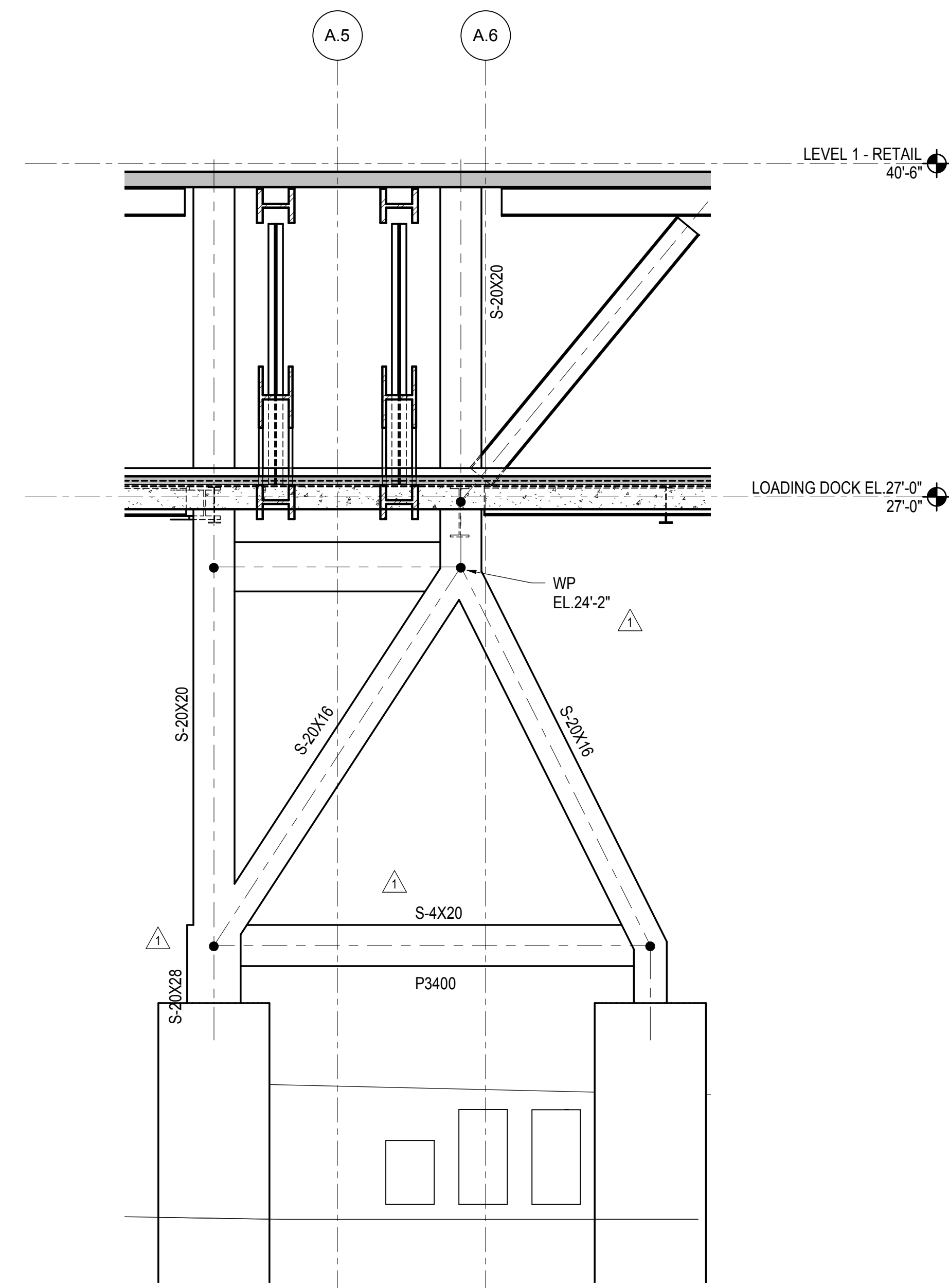
Architect  
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PC Architects & Planning Consultants  
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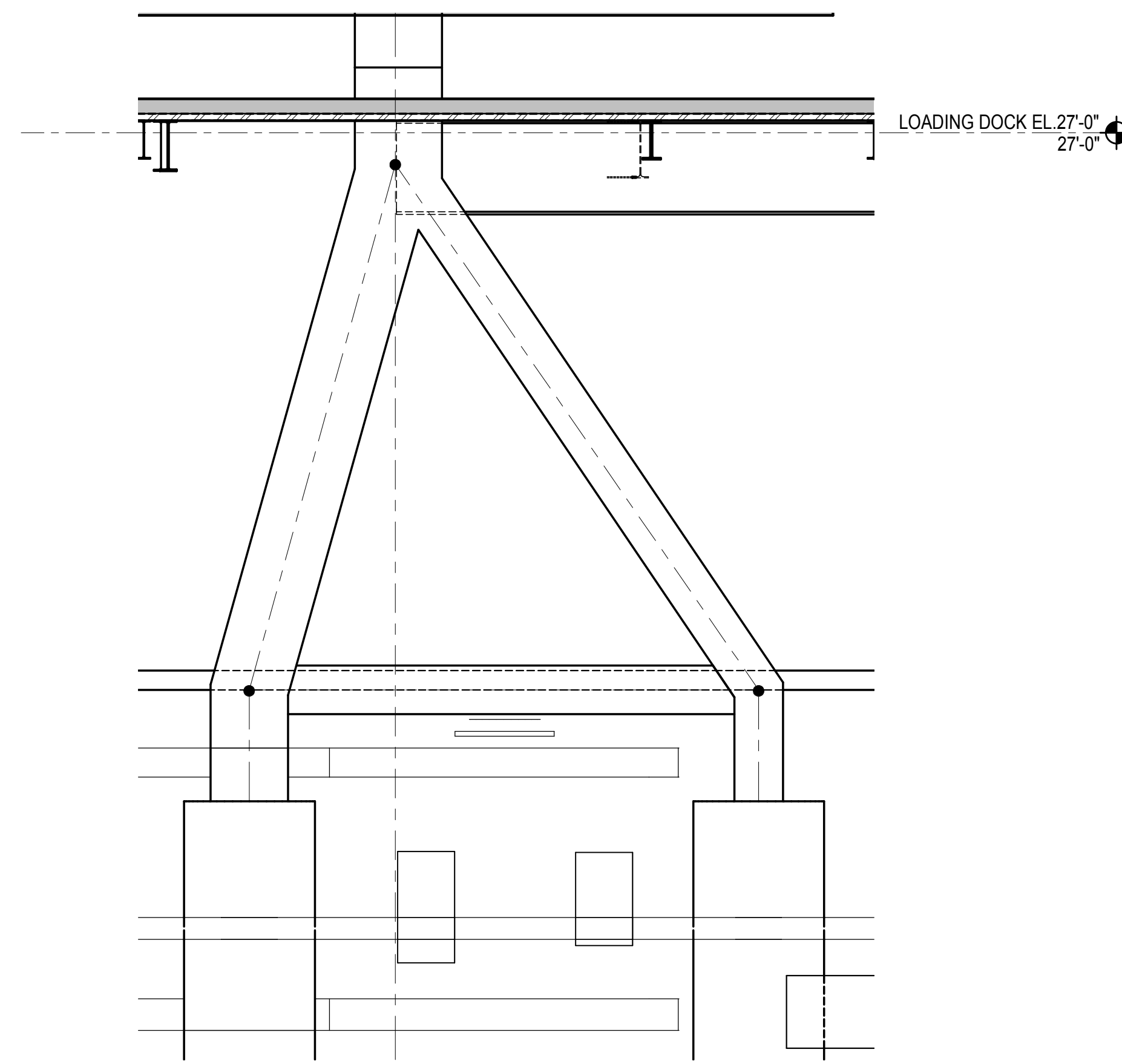
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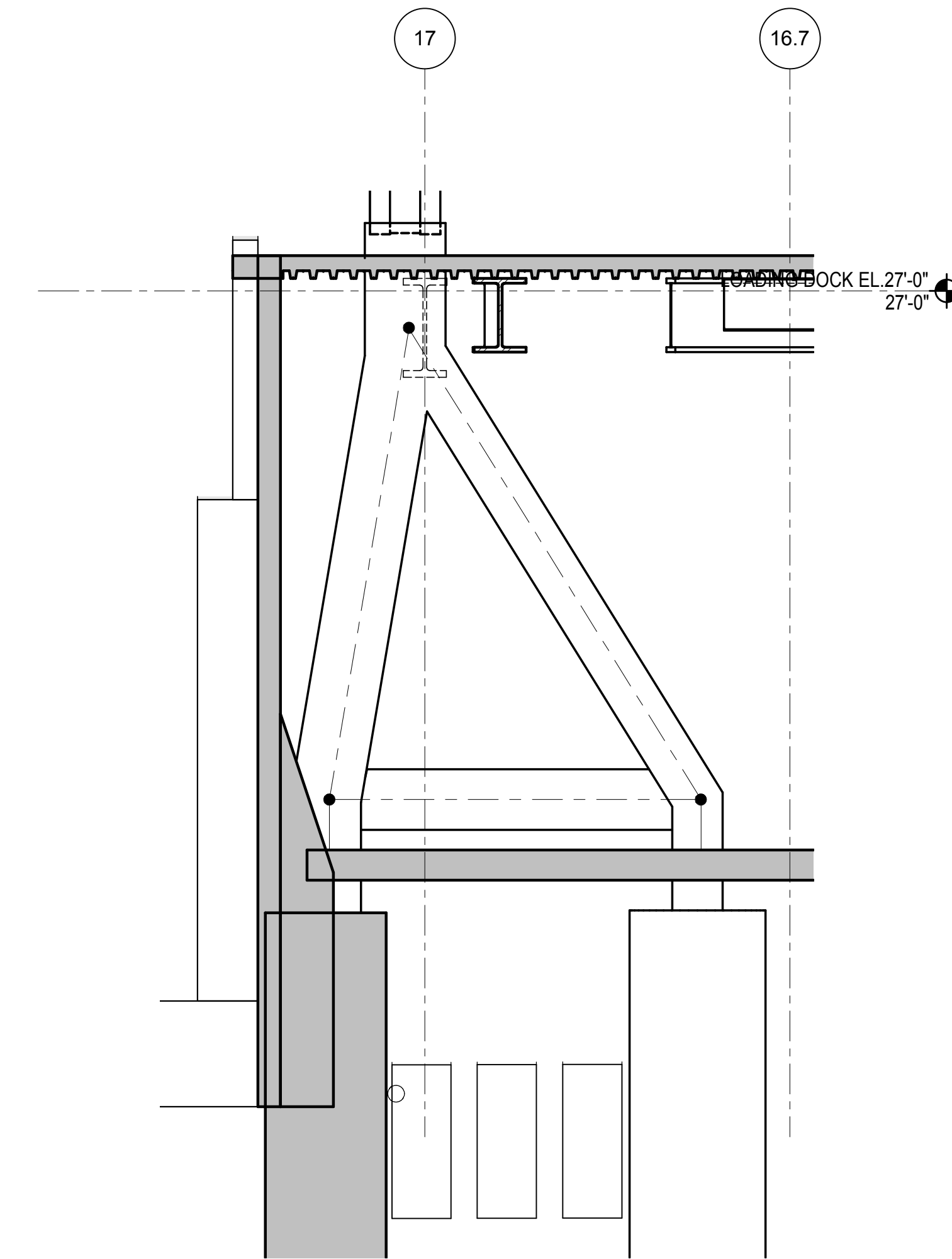
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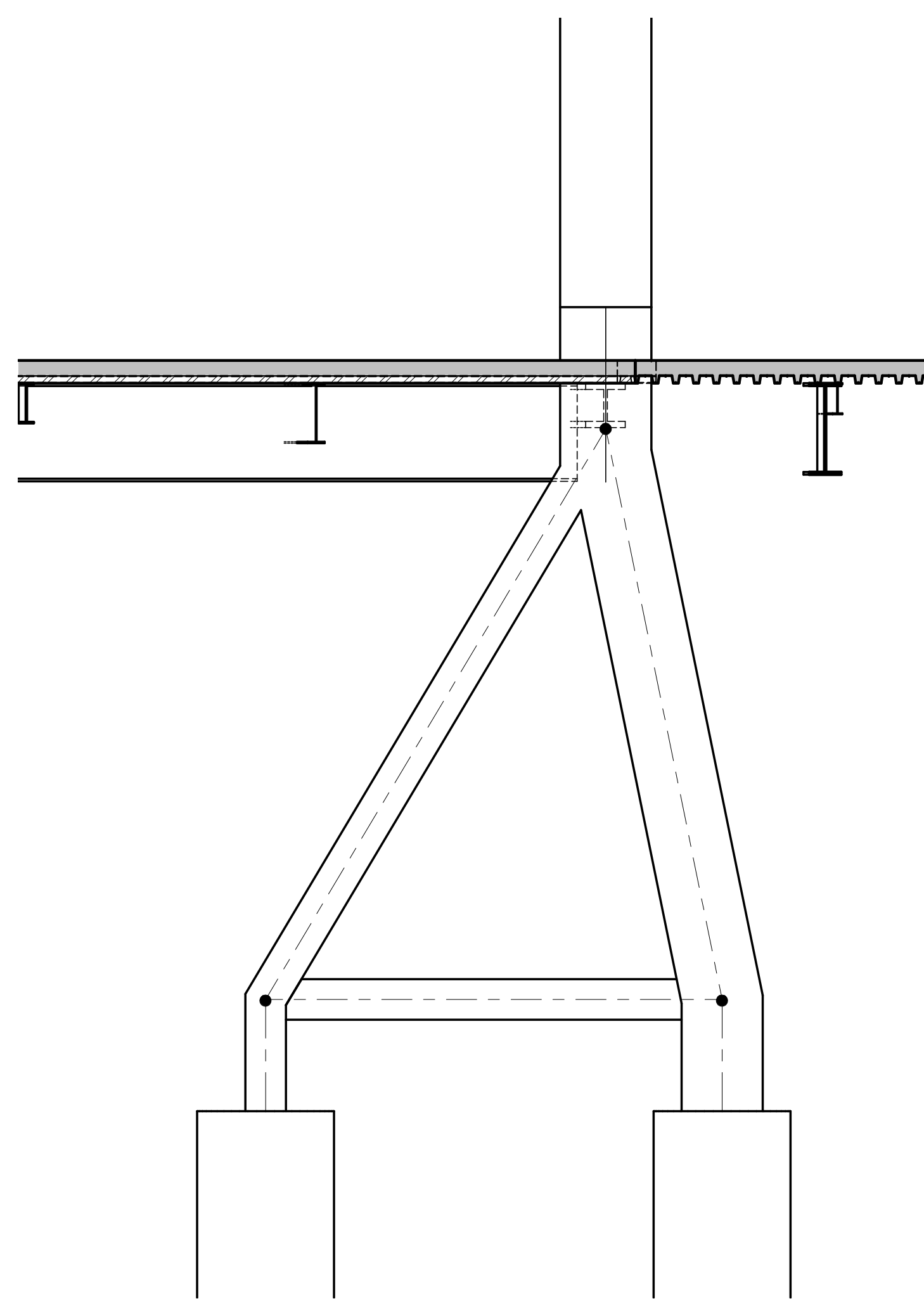
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1/4" = 1'-0"



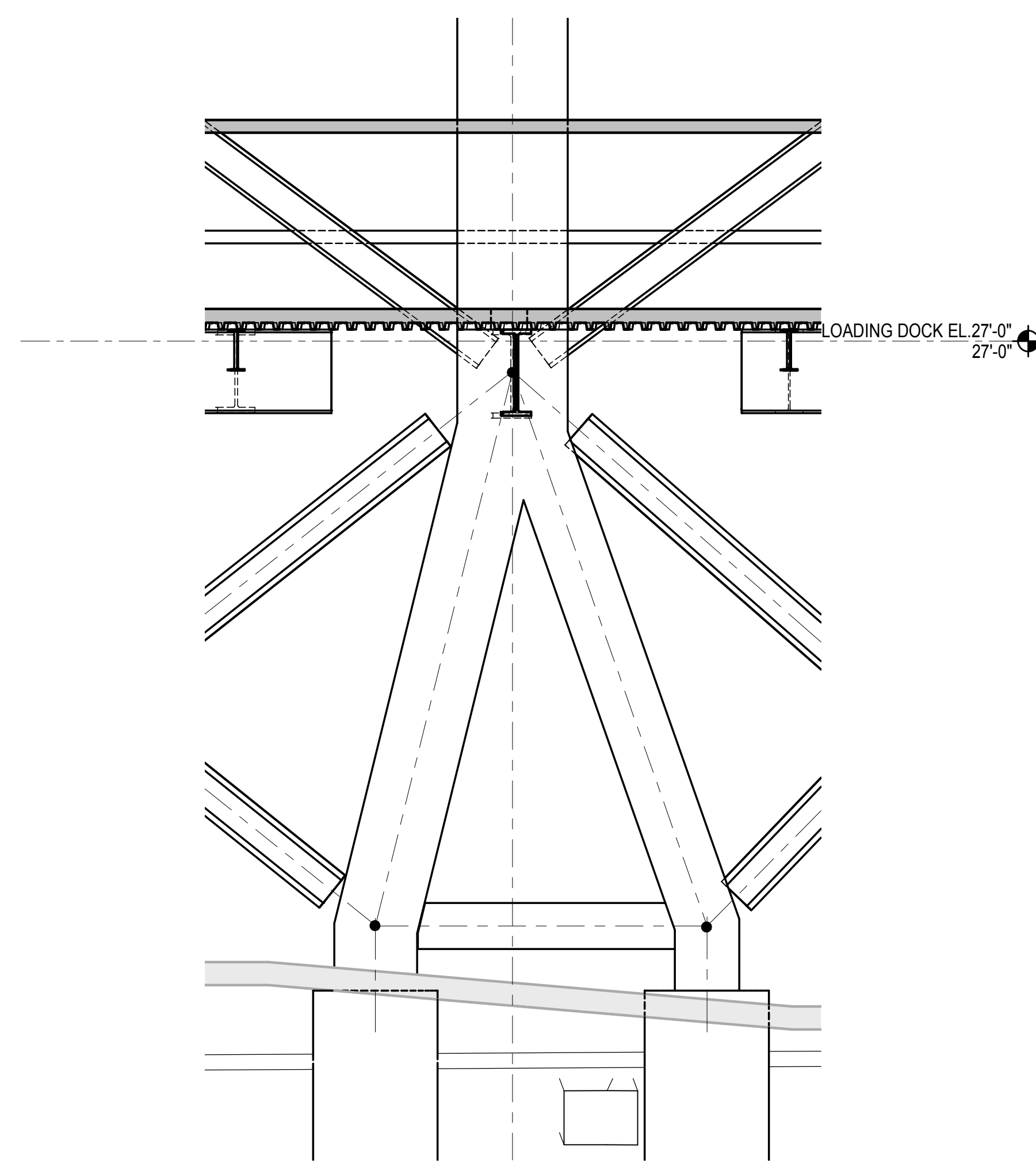
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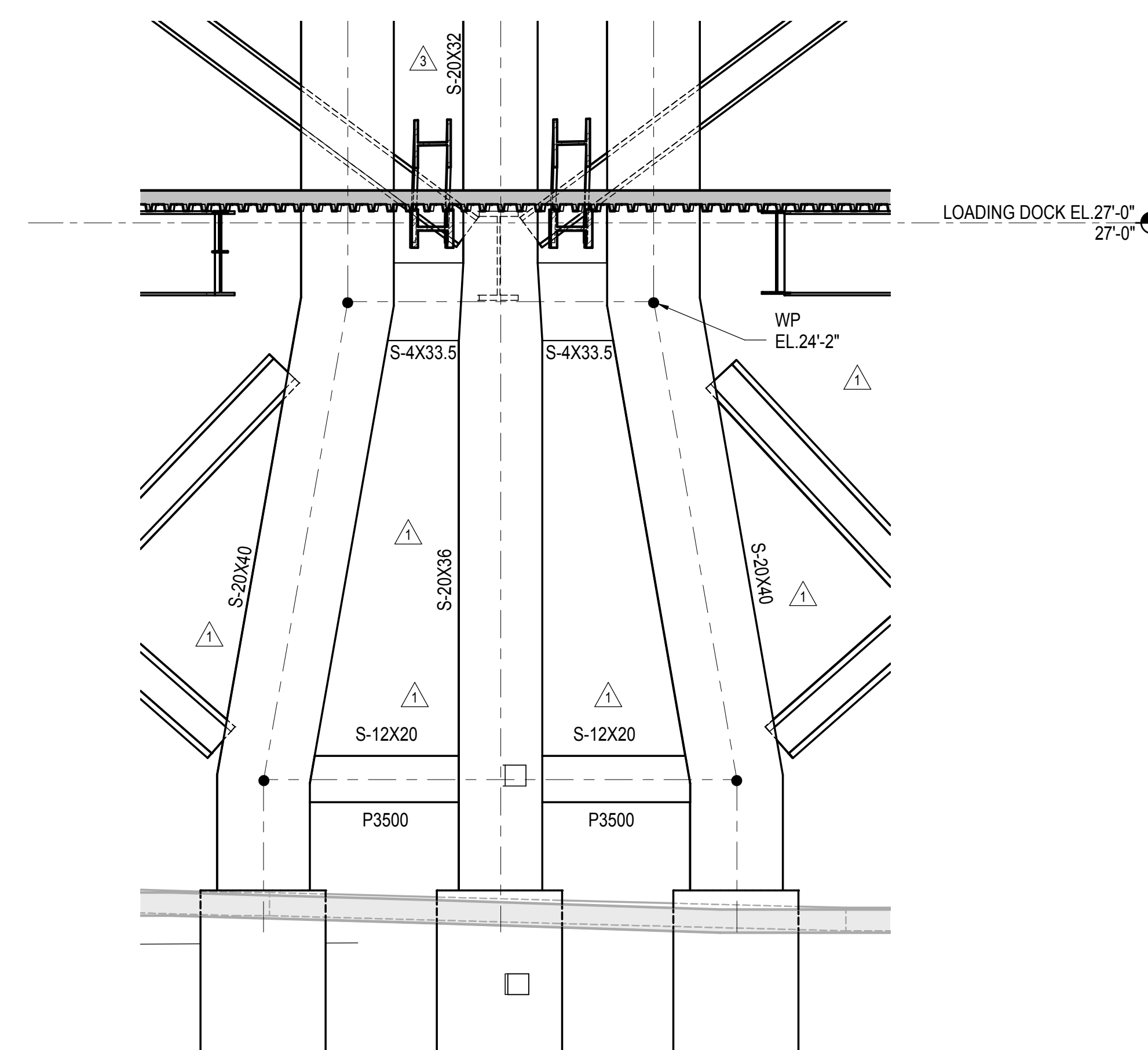
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1/4" = 1'-0"



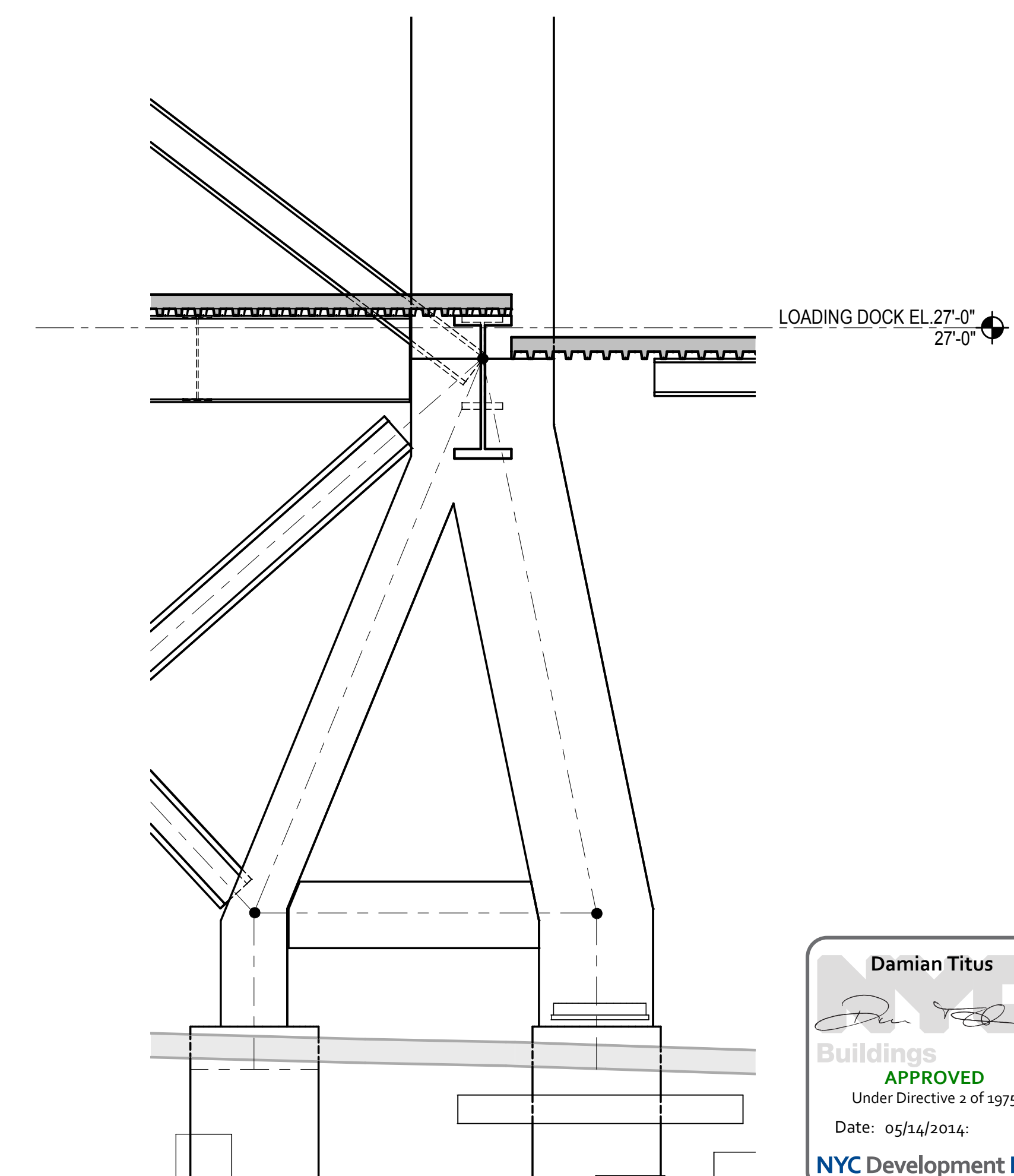
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1/4" = 1'-0"



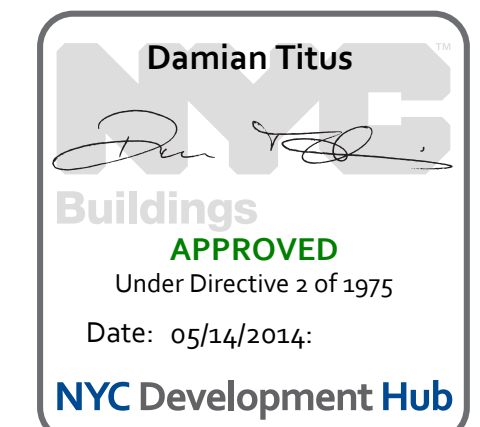
6 ATYPICAL A-FRAME ELEVATION AT COLUMN E/14  
1/4" = 1'-0"



7 ATYPICAL A-FRAME ELEVATION AT COLUMN F/14  
1/4" = 1'-0"



8 ATYPICAL A-FRAME ELEVATION AT COLUMN G/14  
1/4" = 1'-0"



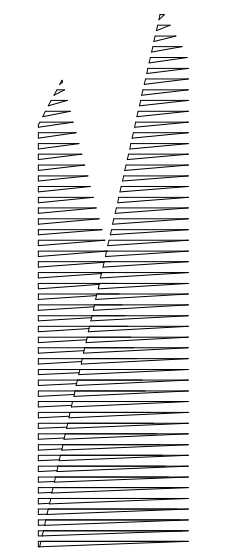
NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
Model - PLATFORM SUBMISSION	
2. DEQ PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
3. DEQ PHASE I STRUCTURAL UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
NYC Description	Other

Rev. Plan

Date: 08/09/2013  
Project No: N11330.00  
Author: Author

**HYE - PL - S-323.00**  
**ATYPICAL COLUMNS (A-FRAMES)**





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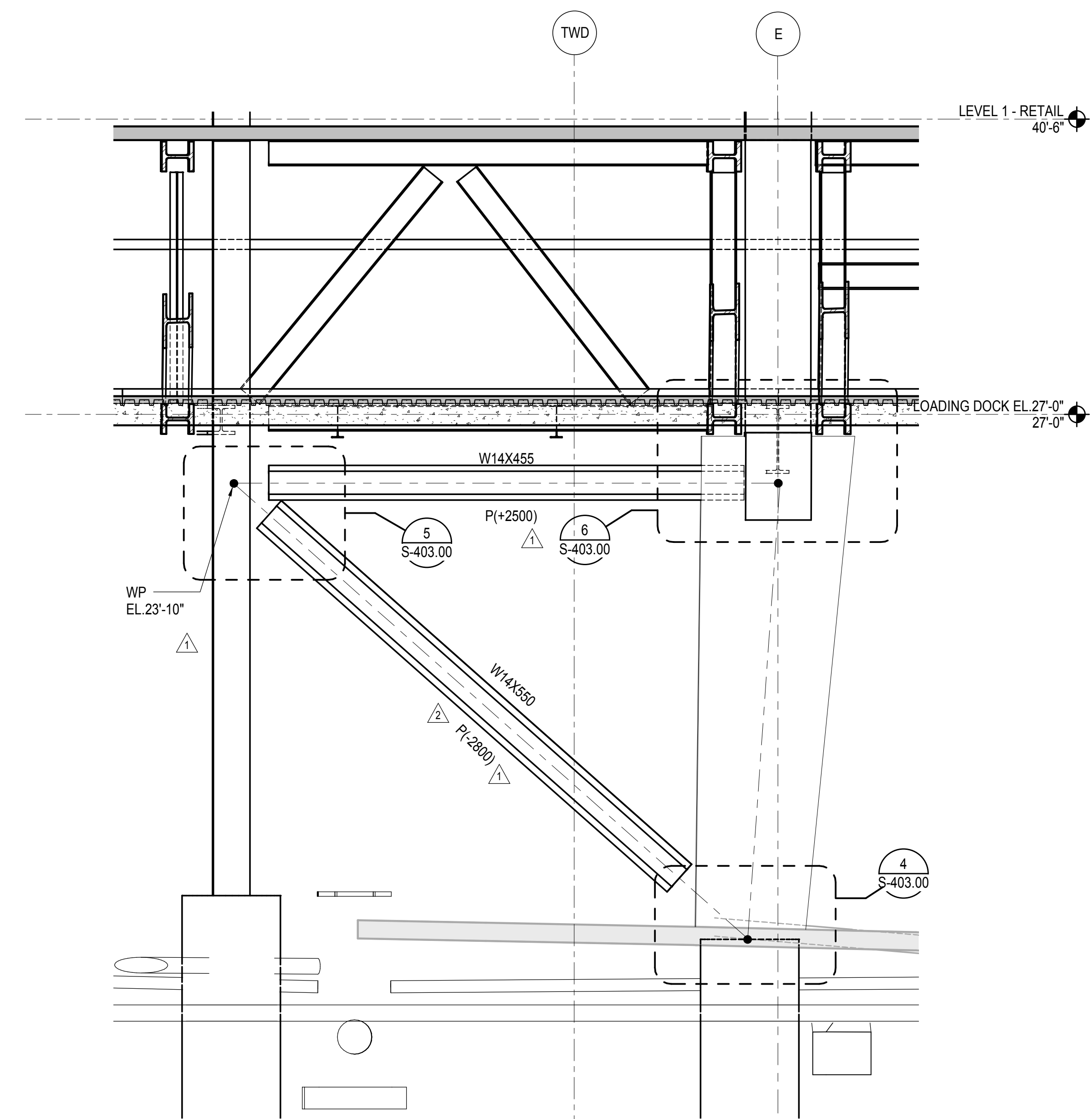
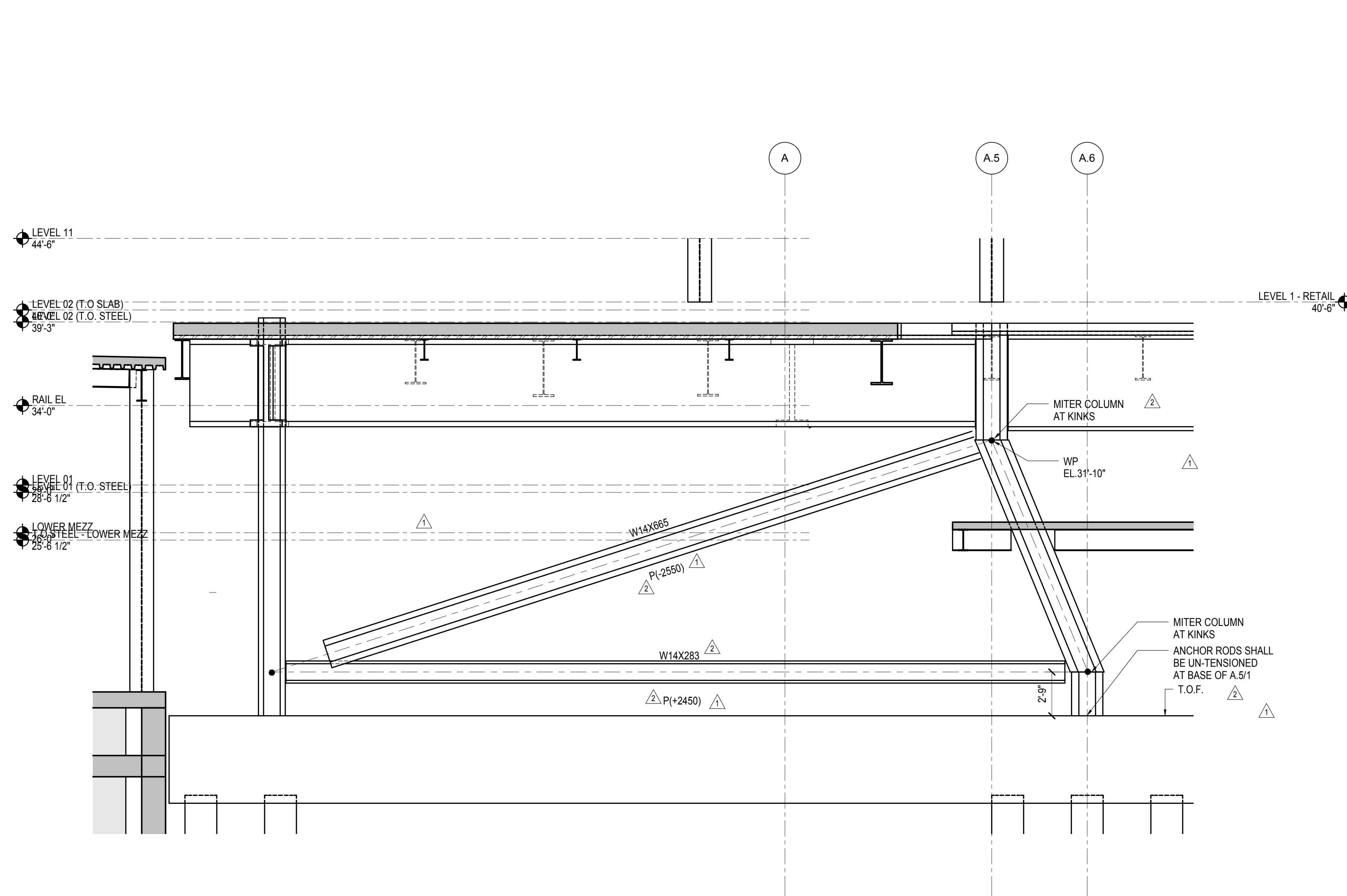
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Tel: 212.266.8300 Fax: 212.571.6825

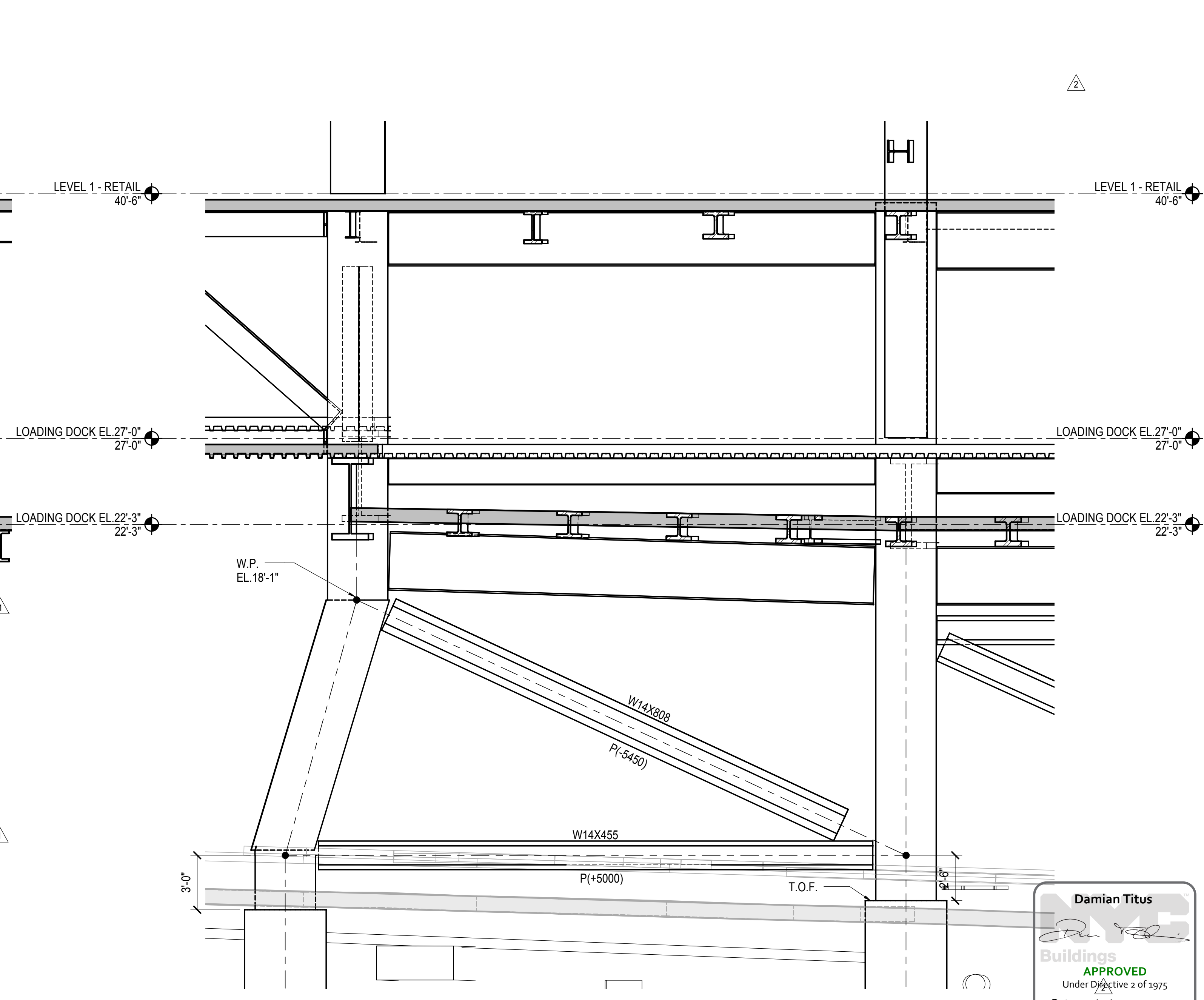
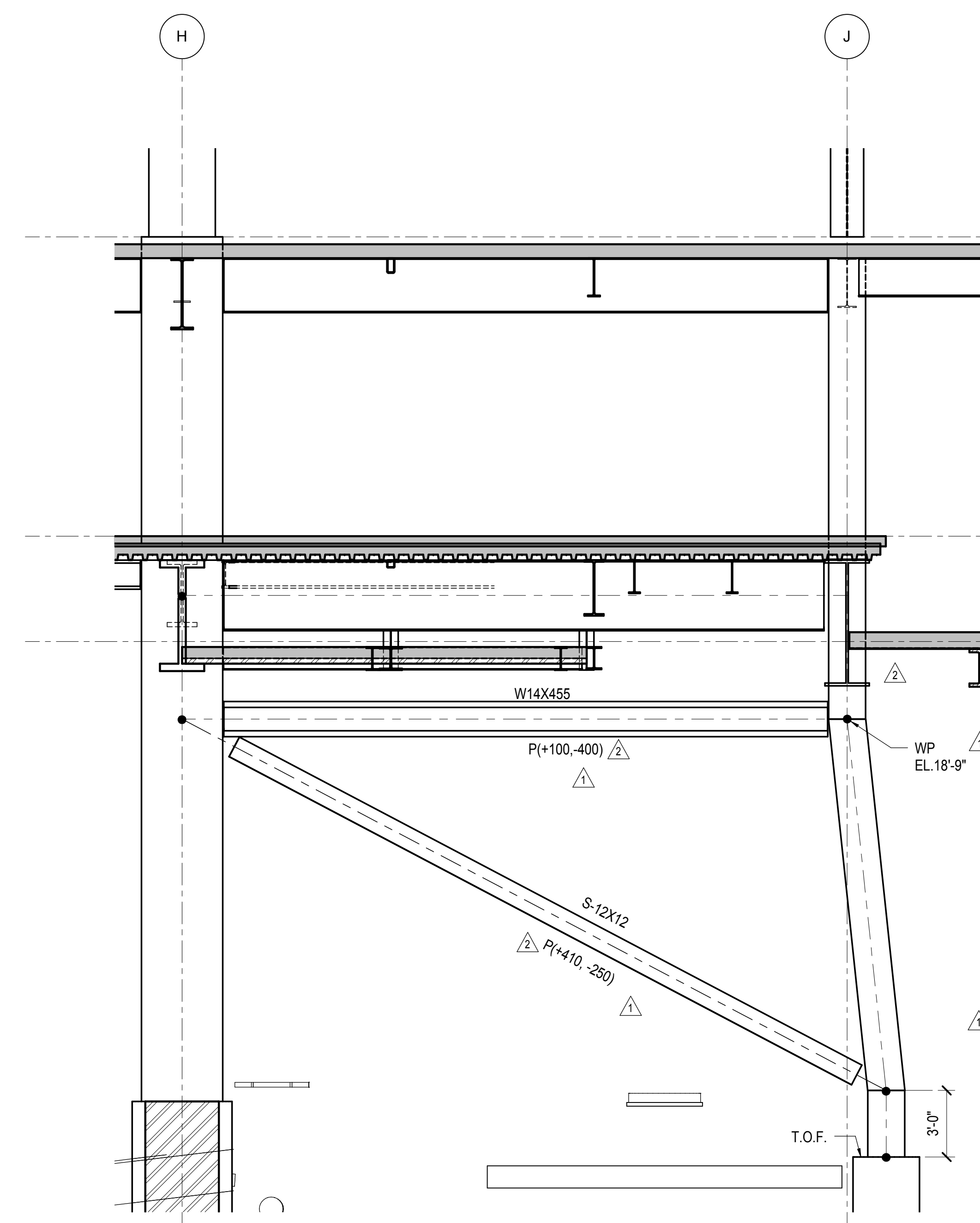
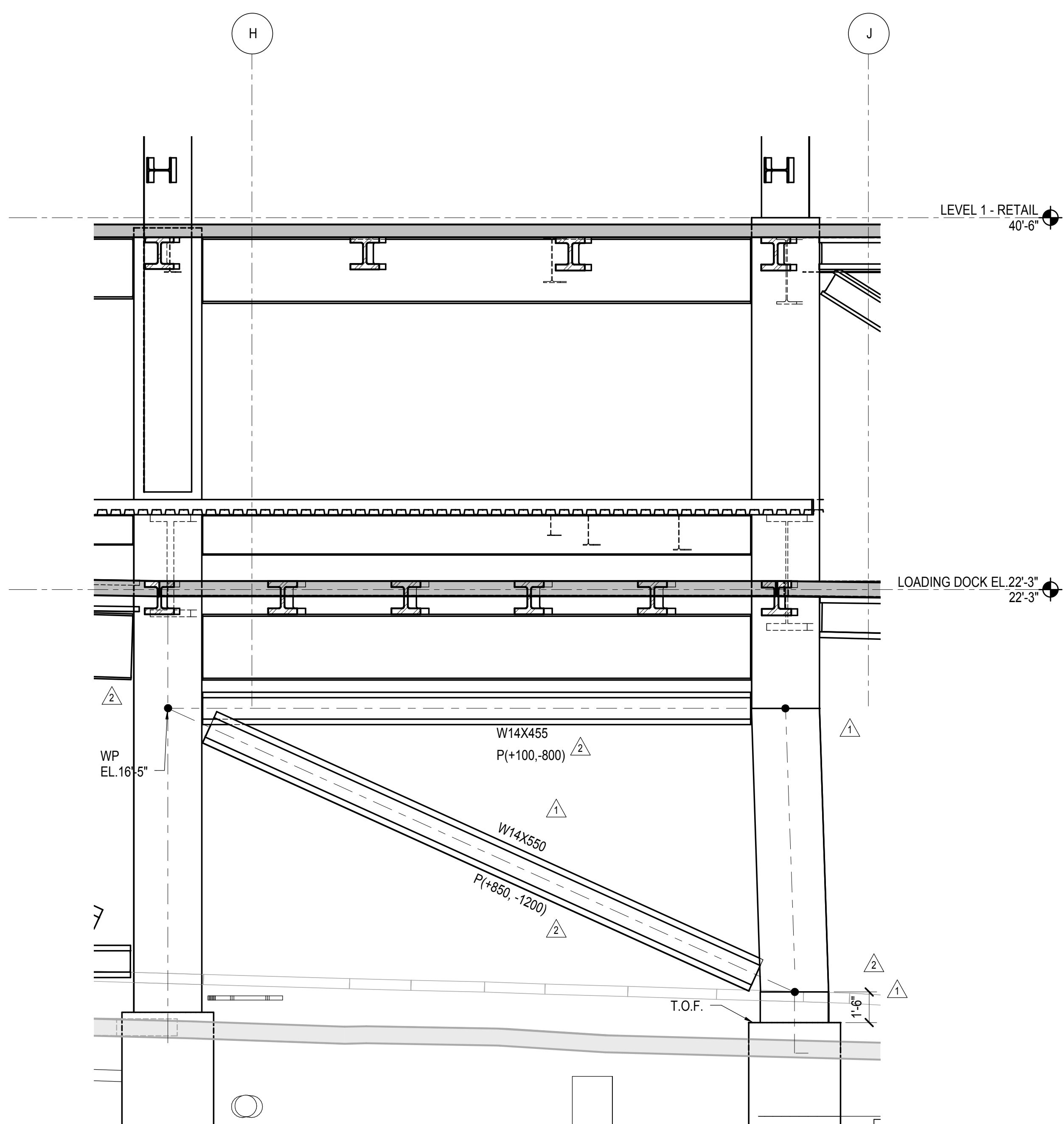
LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
405 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



**1 SLANTED COLUMN AT A.5/1**  
1/4" = 1'-0"

**2 SLANTED COLUMN AT E/13.5**  
1/4" = 1'-0"



**3 SLANTED COLUMN AT J/12**  
1/4" = 1'-0"

**4 SLANTED COLUMN AT J/14**  
1/4" = 1'-0"

**5 SLANTED COLUMN AT G/12**  
1/4" = 1'-0"

NYC DOB FILING	12/4/2013
LIRR - PRELIMINAL 100%	11/22/2013
M&E - PLATFORM SUBMISSION	
DOB PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
DOB PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC Description	000

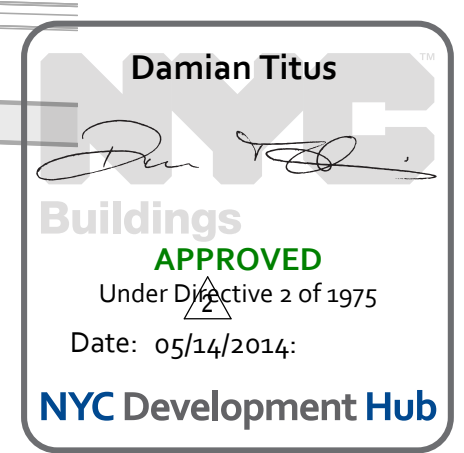
Rev. Plot

Date: 08/09/13  
Project No: N11330.00  
Title: Author  
Sheet Number: Author

**HYE-PL-S-324.00**  
**ATYPICAL COLUMNS (SLANTED COLUMNS)**

Drawing Number / Revision Drawing Number  
**S-324.00**

SHEET 99 OF 201



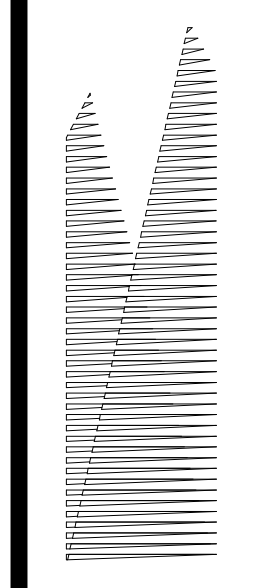
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**HUDSON YARDS  
PLATFORM**

Address  
530 WEST 33RD STREET  
NEW YORK, NY



**Client**  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

**Owner**  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

**Construction Manager**  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

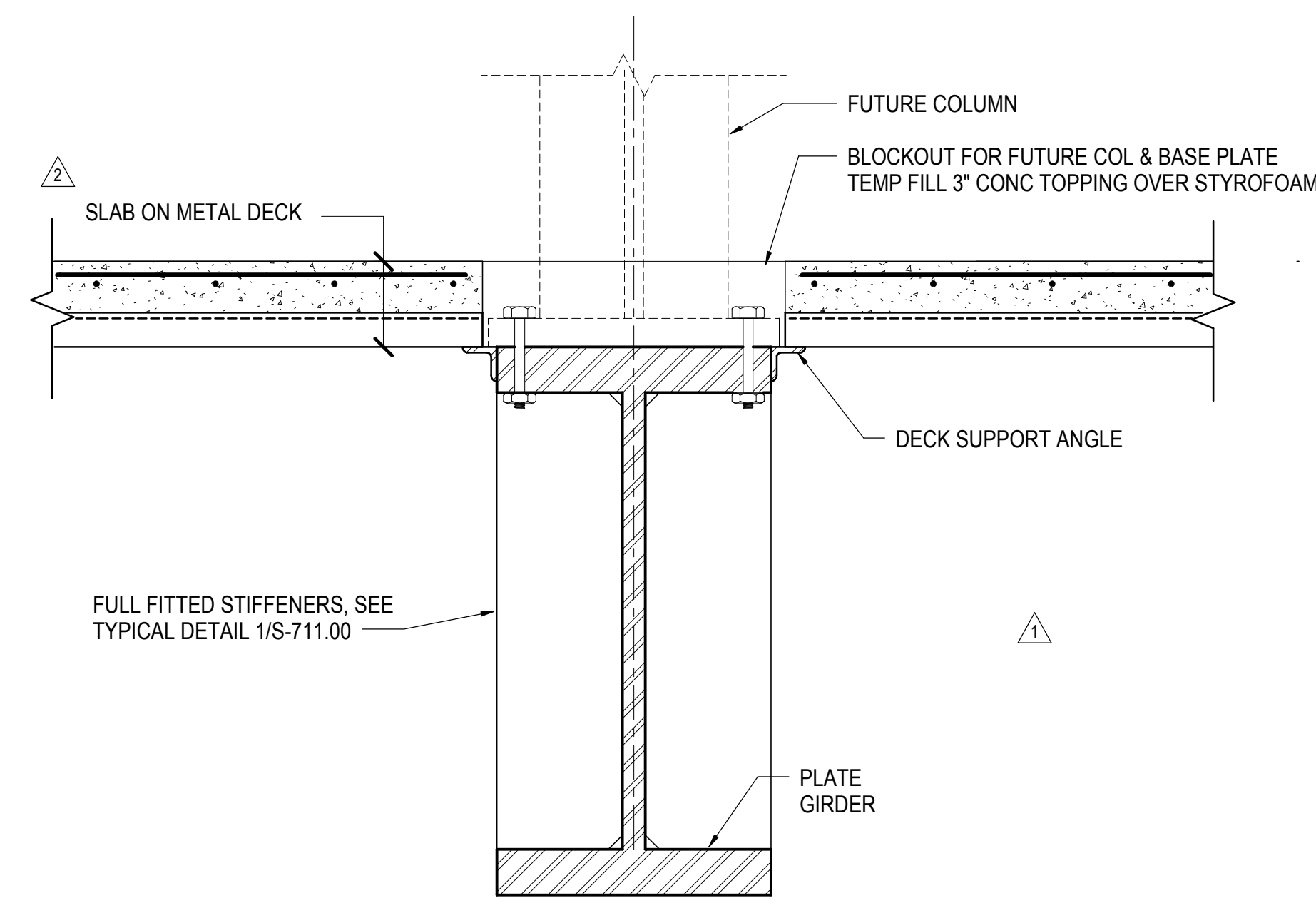
**Architect**  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

**Structural Engineer**  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

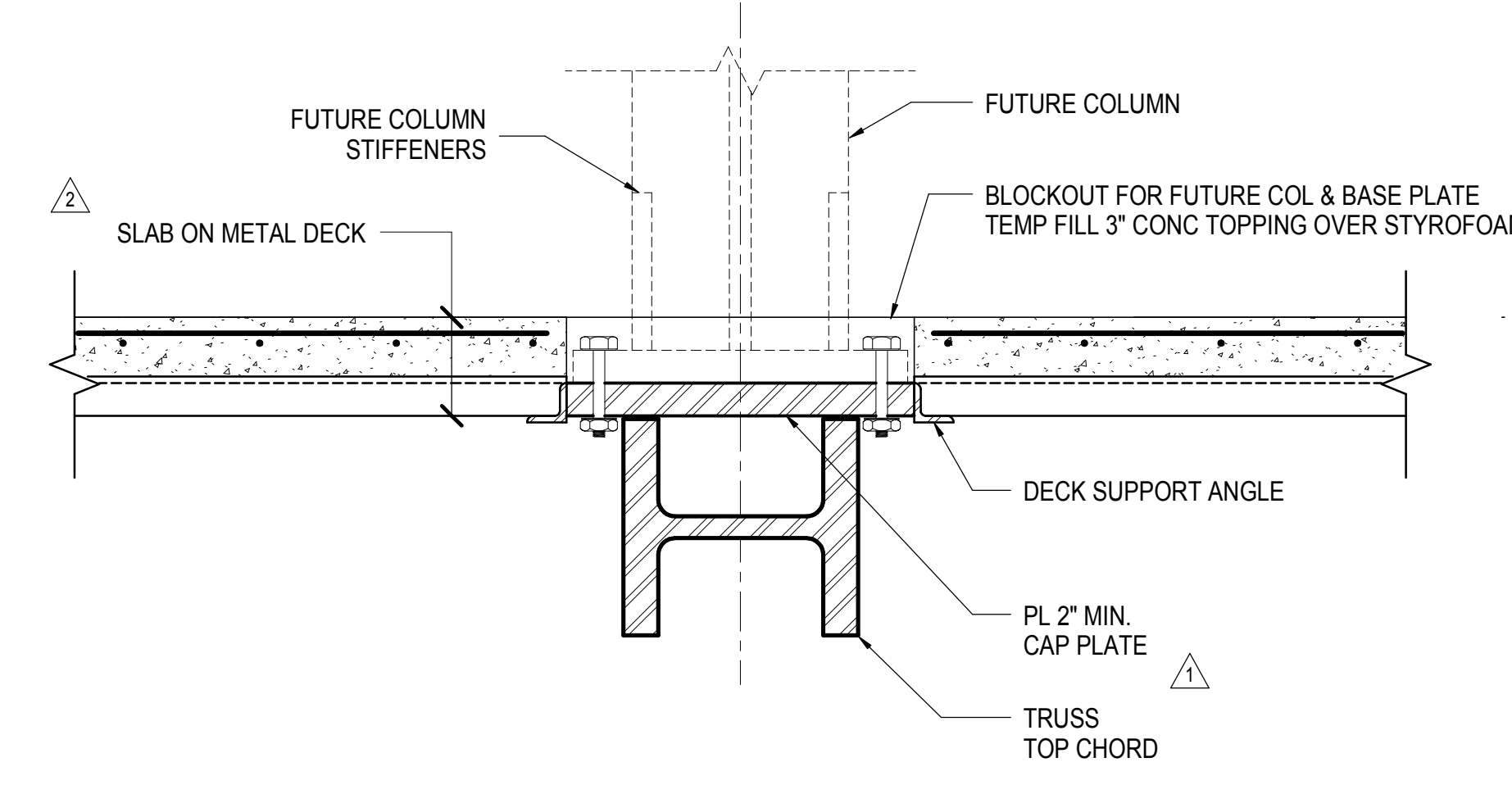
**Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group**  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

**LIRR Ventilation**  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

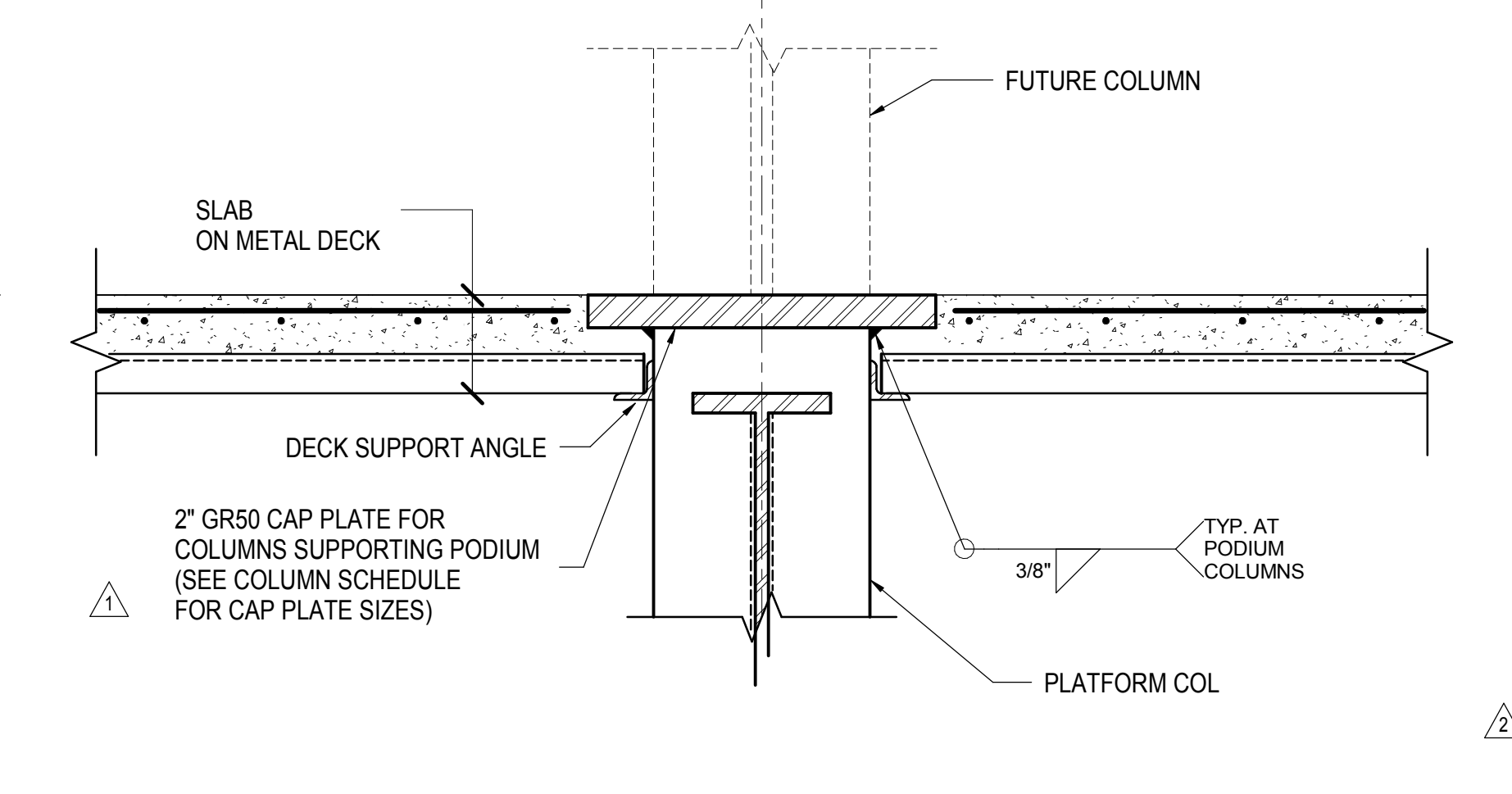
**LIRR Substation**  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



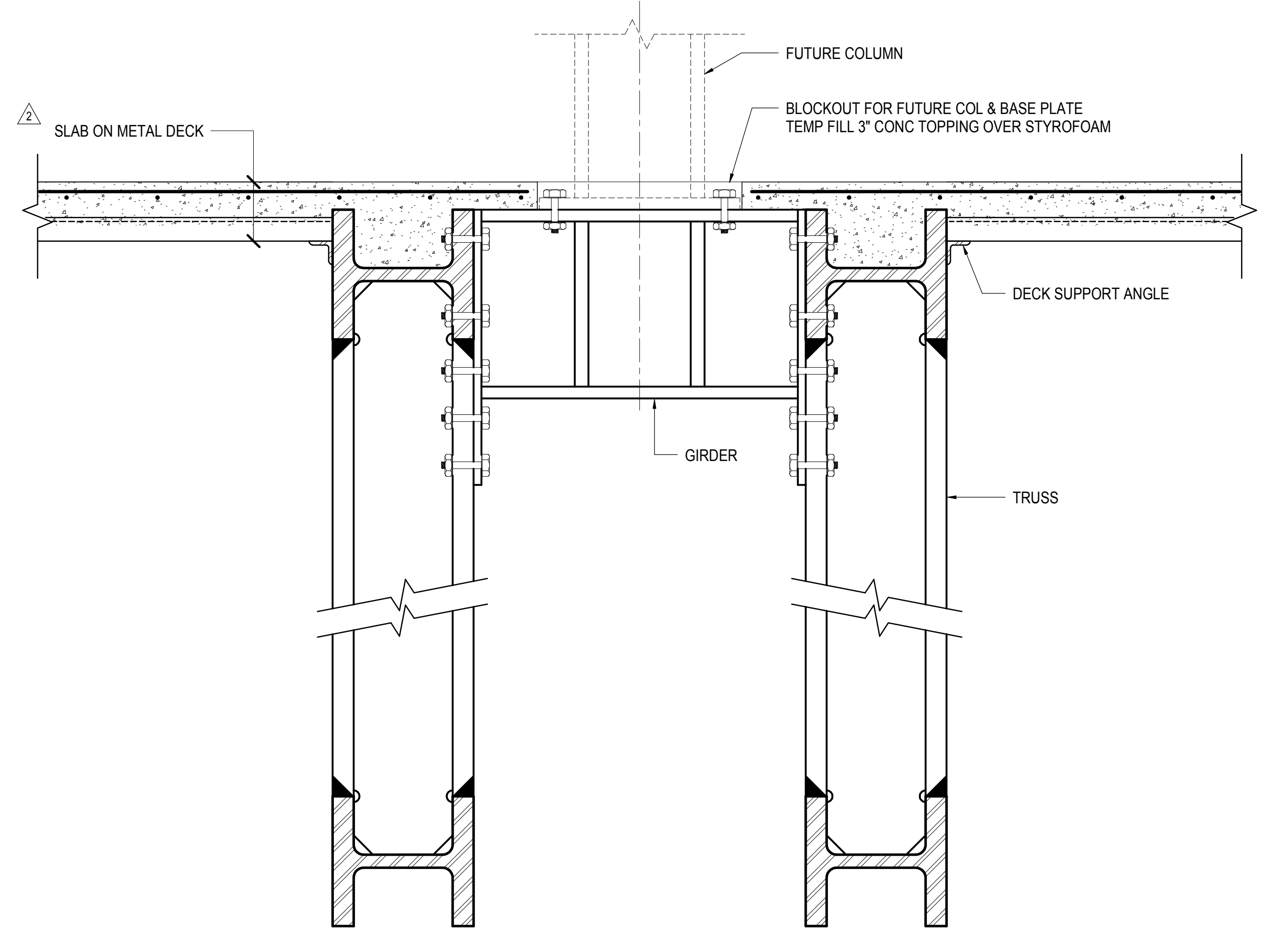
**1** TYPICAL DETAIL AT FUTURE COLUMN SUPPORTED ON PLATE GIRDER  
1" = 1'-0"



**2** TYPICAL DETAIL AT FUTURE COLUMN SUPPORTED ON TRUSS CHORD  
1" = 1'-0"



**3** TYPICAL DETAIL AT FUTURE PODIUM COLUMN SUPPORTED ON PLATFORM COLUMN  
1" = 1'-0"

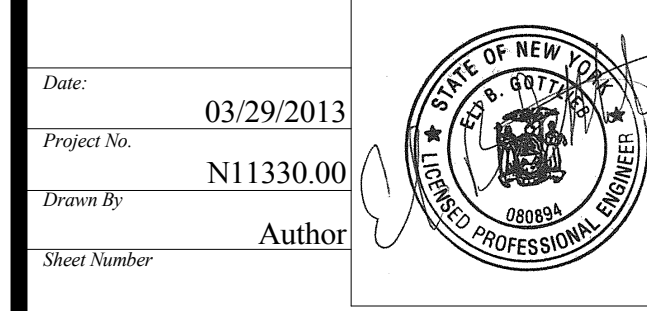
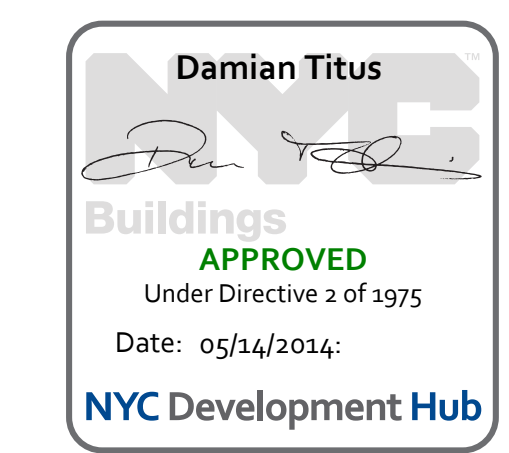


**4** TYPICAL DETAIL AT FUTURE COLUMN SUPPORTED ON DOUBLE TRUSS  
1" = 1'-0"

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NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
Mod - PLATFORM SUBMISSION	
2. DE-2 PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
3. DE-1 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013

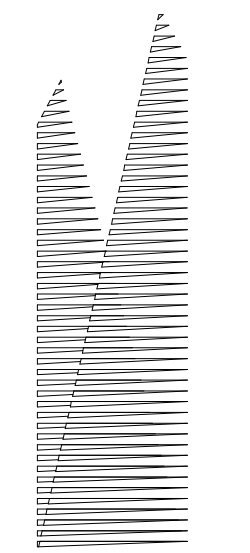
Rev. Plan



**HYE - PL - S-330.00**  
Drawing Title  
**FUTURE COLUMN  
CONNECTION DETAILS**

Drawing Number / B/S/C/S Drawing Number  
**S-330.00**





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NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
Mod. PLATFORM SUBMISSION	11/1/2013
Δ DR-01 PHASE I STRUCTURE UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ DR-01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 10% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
Δ Description	Δ Rev.

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
Mod. PLATFORM SUBMISSION	11/1/2013
Δ DR-01 PHASE I STRUCTURE UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ DR-01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 10% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
Δ Description	Δ Rev.

Rev. Plot

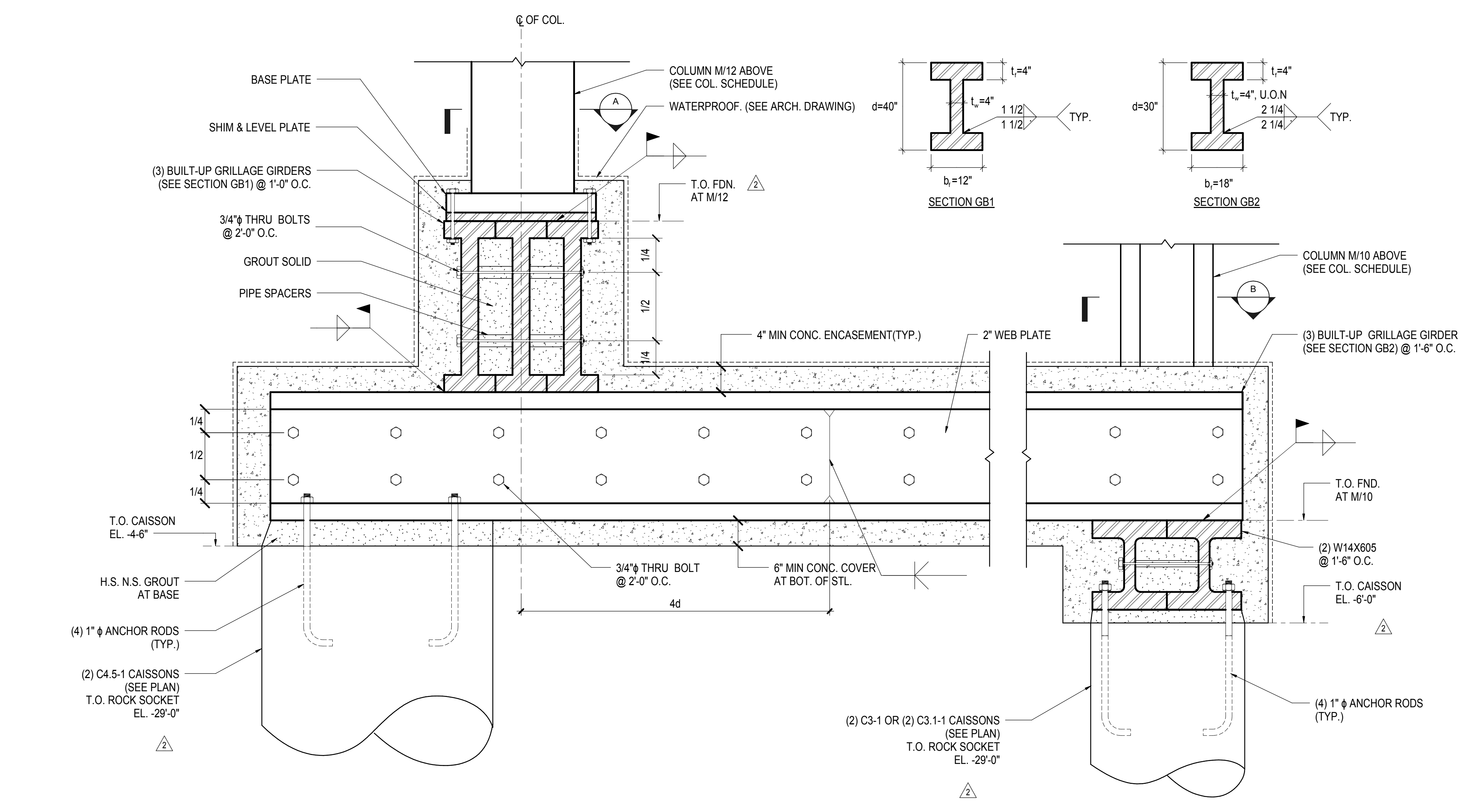
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Project No: N11330.00  
Drawn By: Author  
Issue Number:

**HYE -PL -S-351.00**

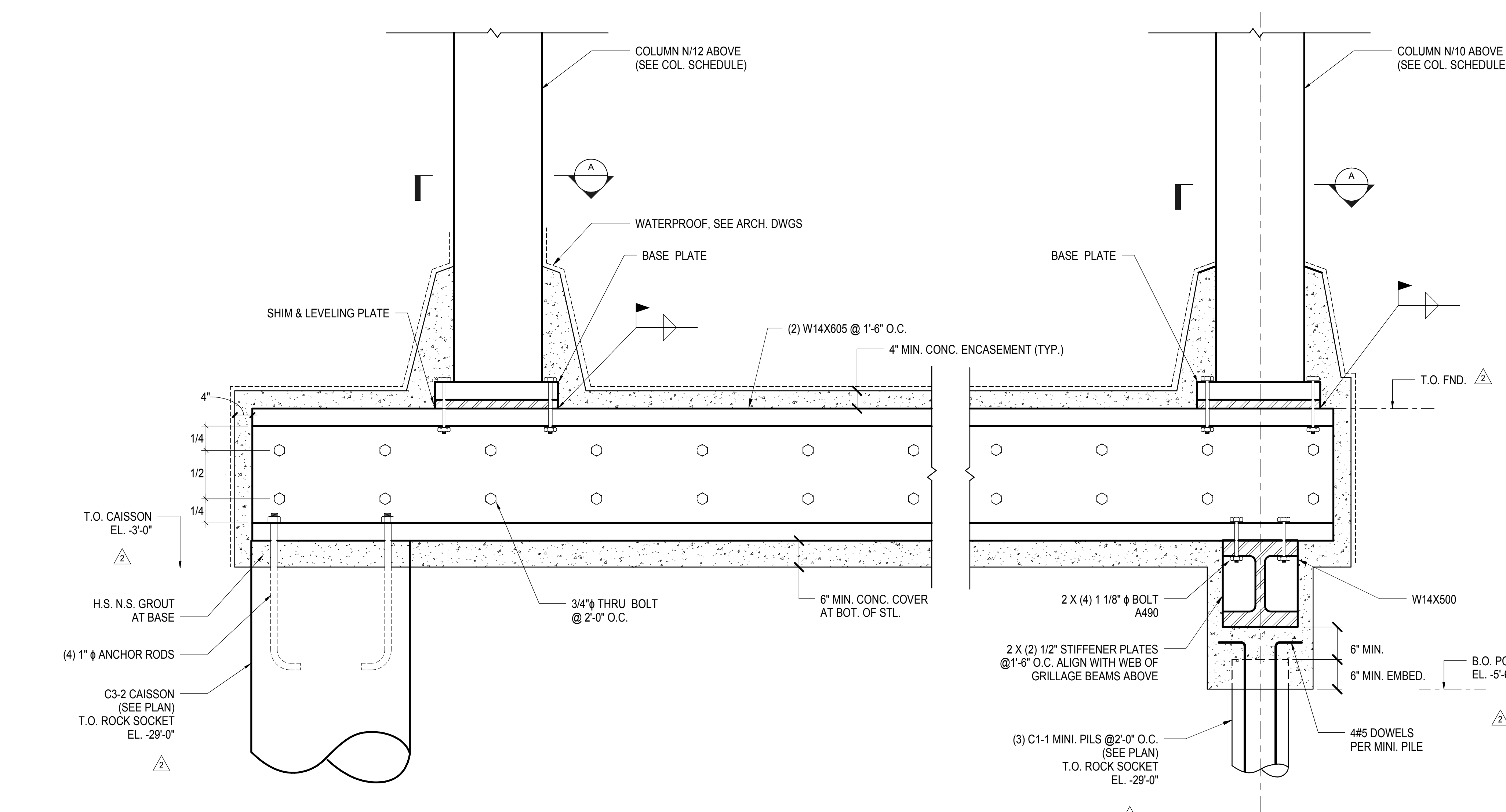
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Drawing Number / Revision Drawing Number  
**S-351.00**

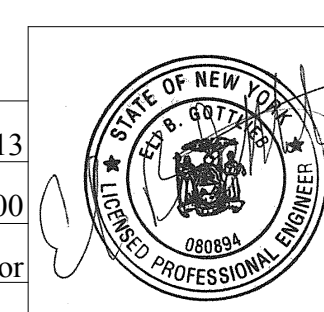
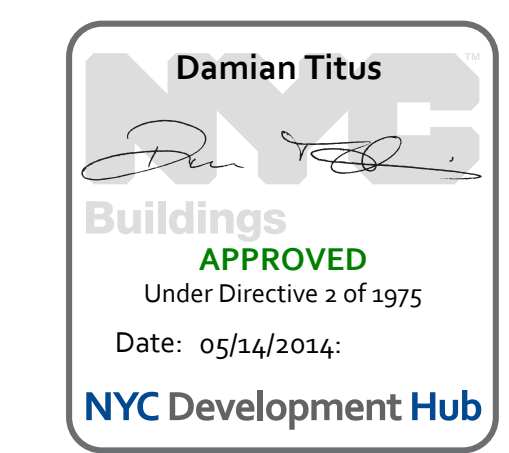
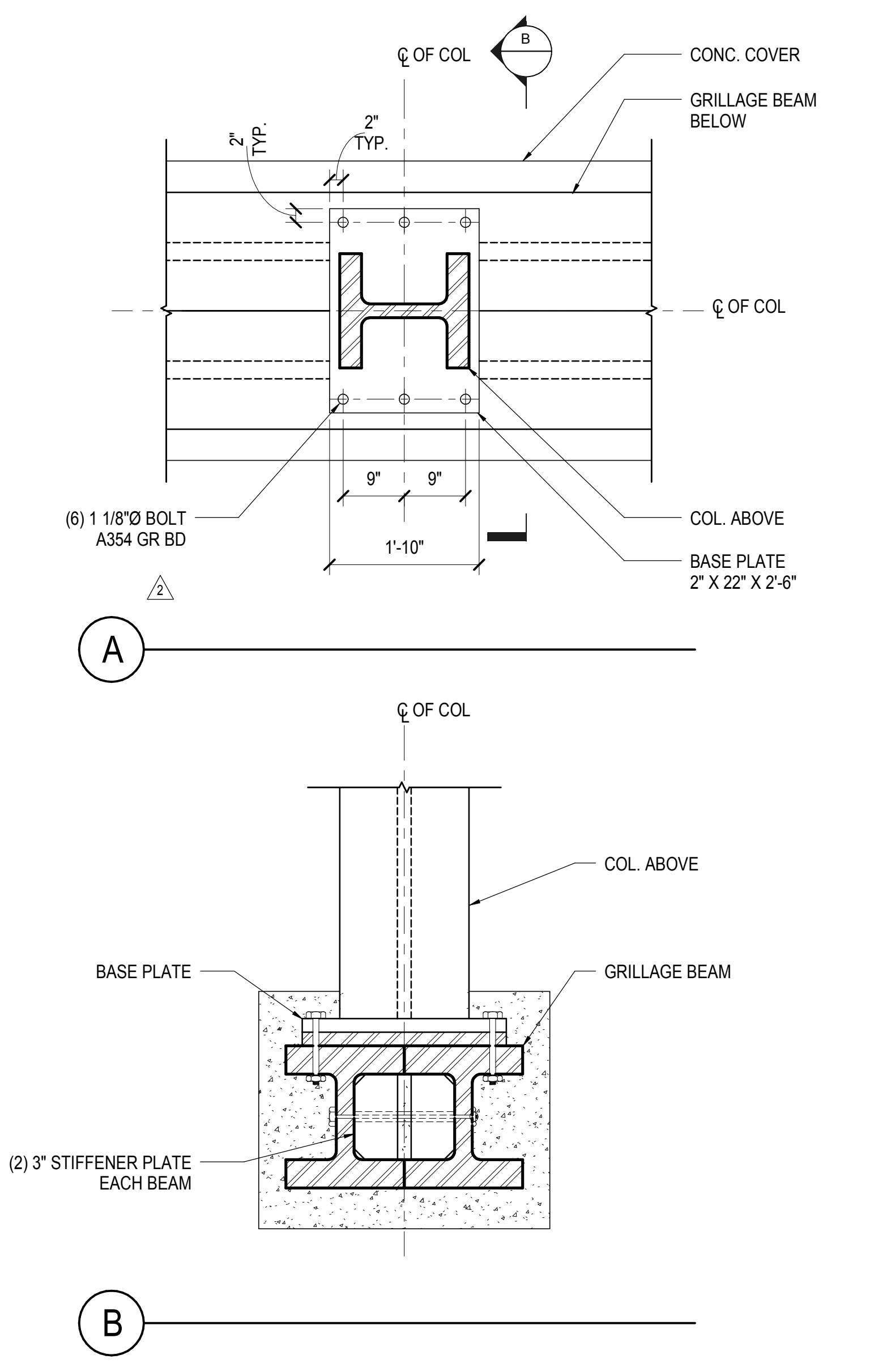
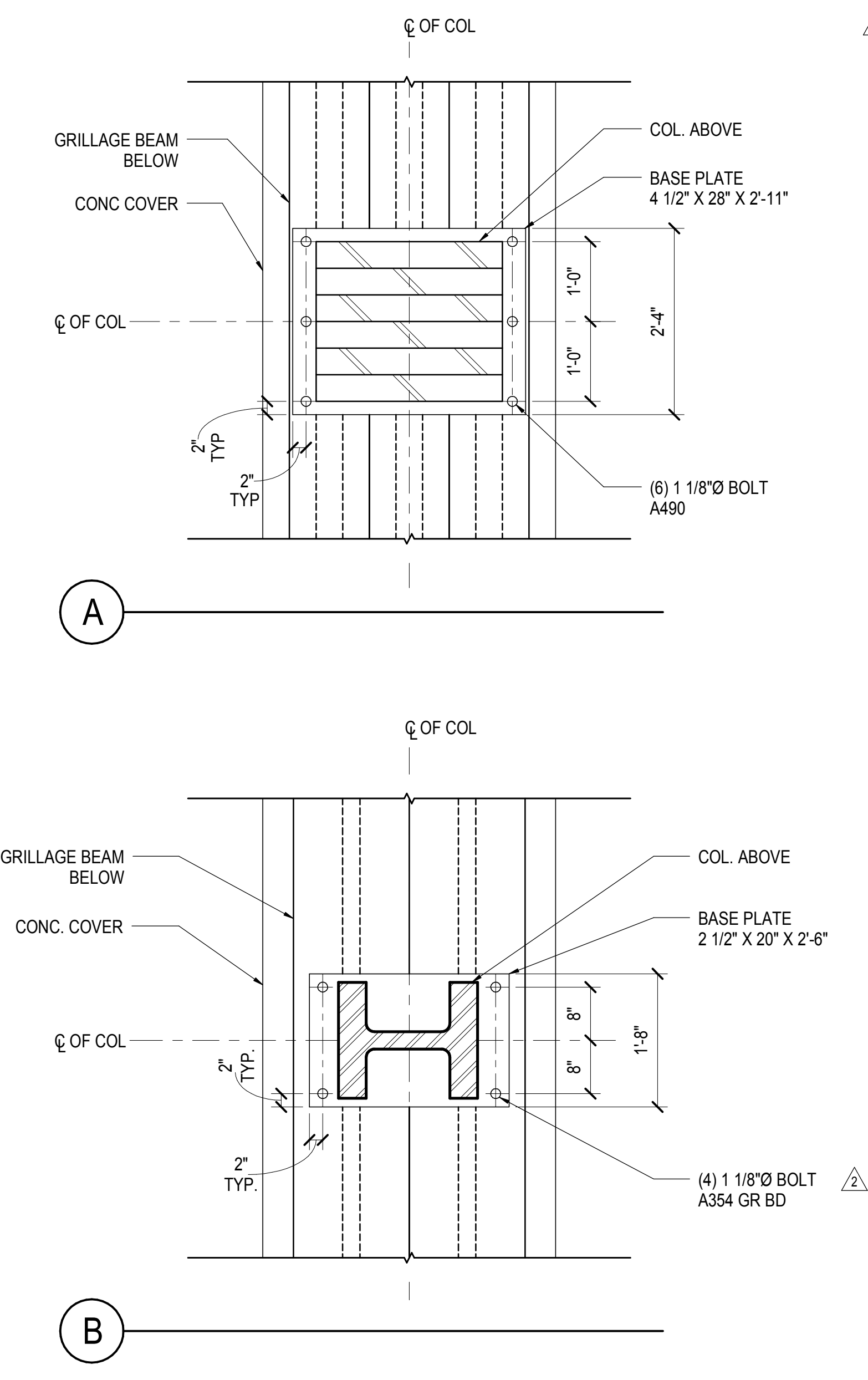
SHEET 101 OF 201



**1** TRANSFER GRILLAGE BEAMS ABOVE AMTRAK NORTH RIVER TUNNEL @M-LINE  
3/4" = 1'-0"

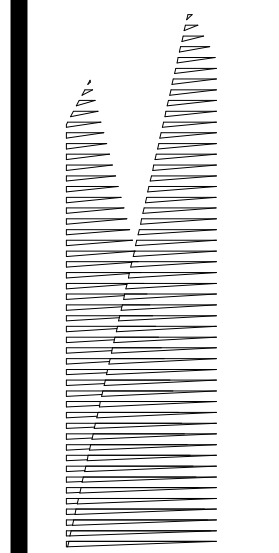


**2** TRANSFER GRILLAGE BEAMS ABOVE AMTRAK NORTH RIVER TUNNEL @N-LINE  
3/4" = 1'-0"



S-351.00  
11/22/2013 11:08:28 AM  
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Related Companies  
60 Columbus Circle  
New York, NY 10023  
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AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
Mod. - PLATFORM SUBMISSION	11/1/2013
A. DR-0 PHASE I STRUCTURE UPDATE	10/4/2013
NYC DOB FILING	10/4/2013
A. DR-0 PHASE I STRUCTURE UPDATE	9/20/2013
Rev	Description

Rev. No.

Date: 09/20/13

Project No: N11330.00

Drawn By: Author

Sheet Number:

**HYE - PL - S-352.00**

Drawing Title

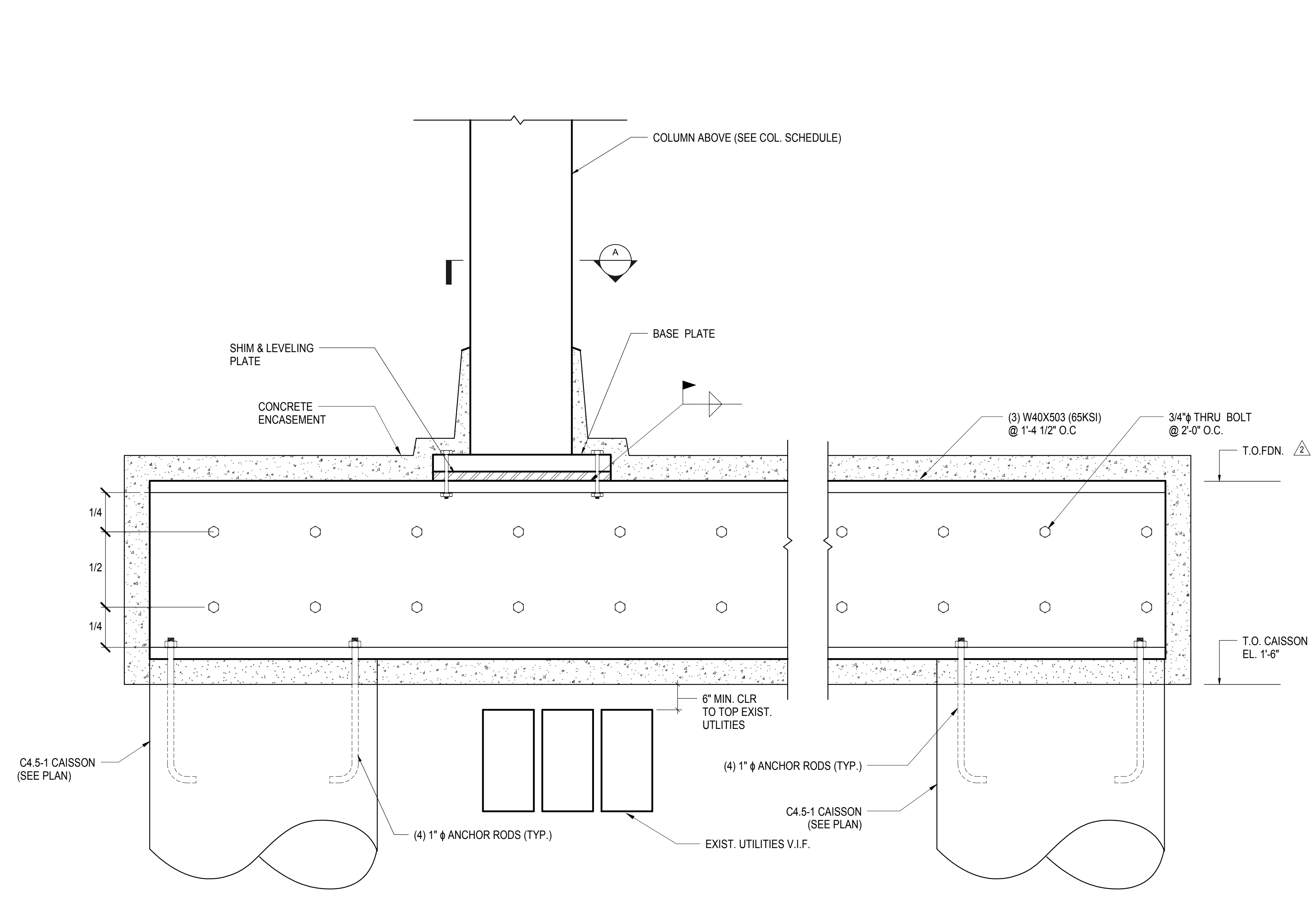
**EAST PLATFORM FOUNDATION SECTIONS AND DETAILS**

Drawing Number / B.S.C./S Drawing Number

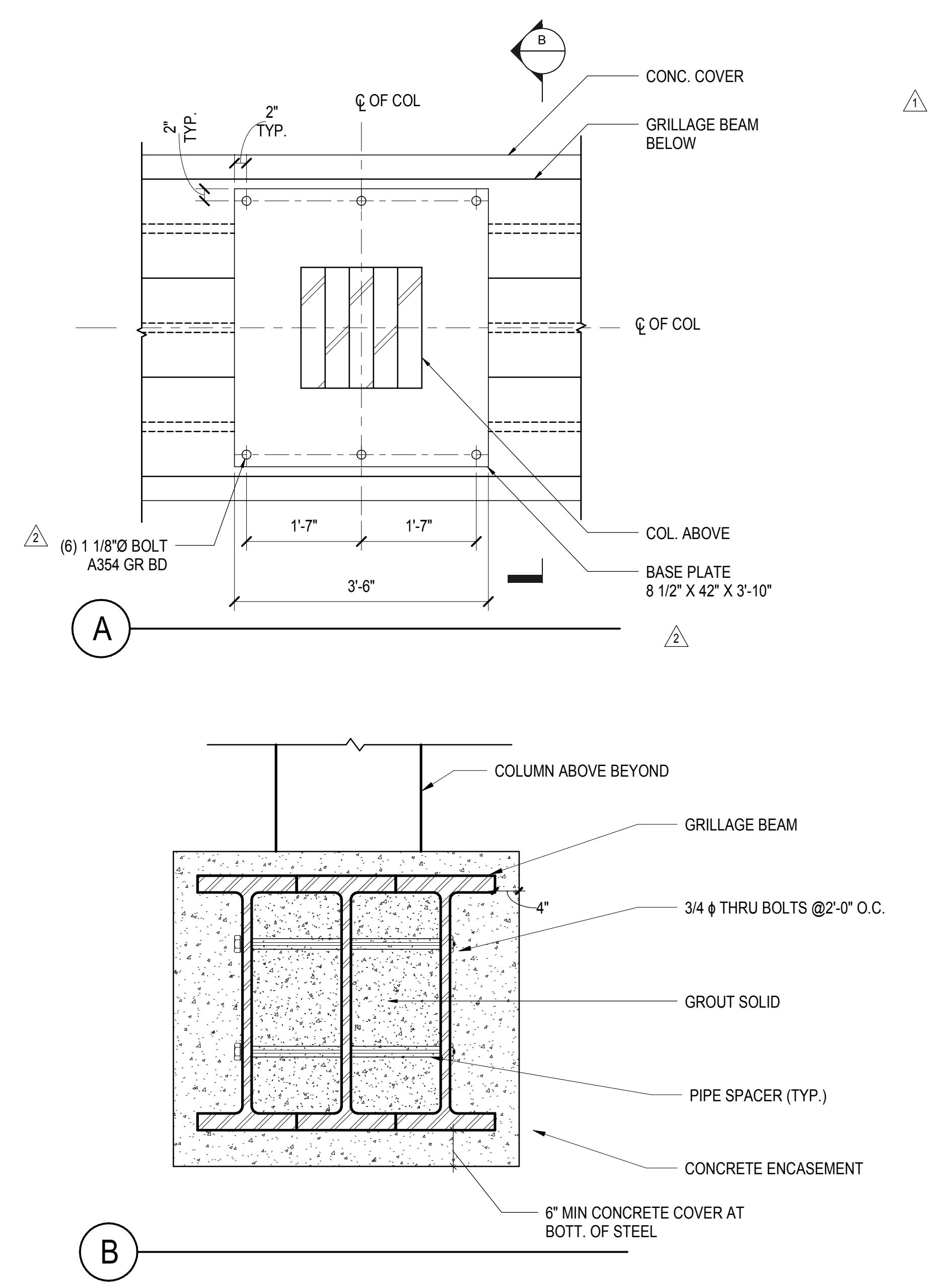
**S-352.00**

SHEET 102 OF 201

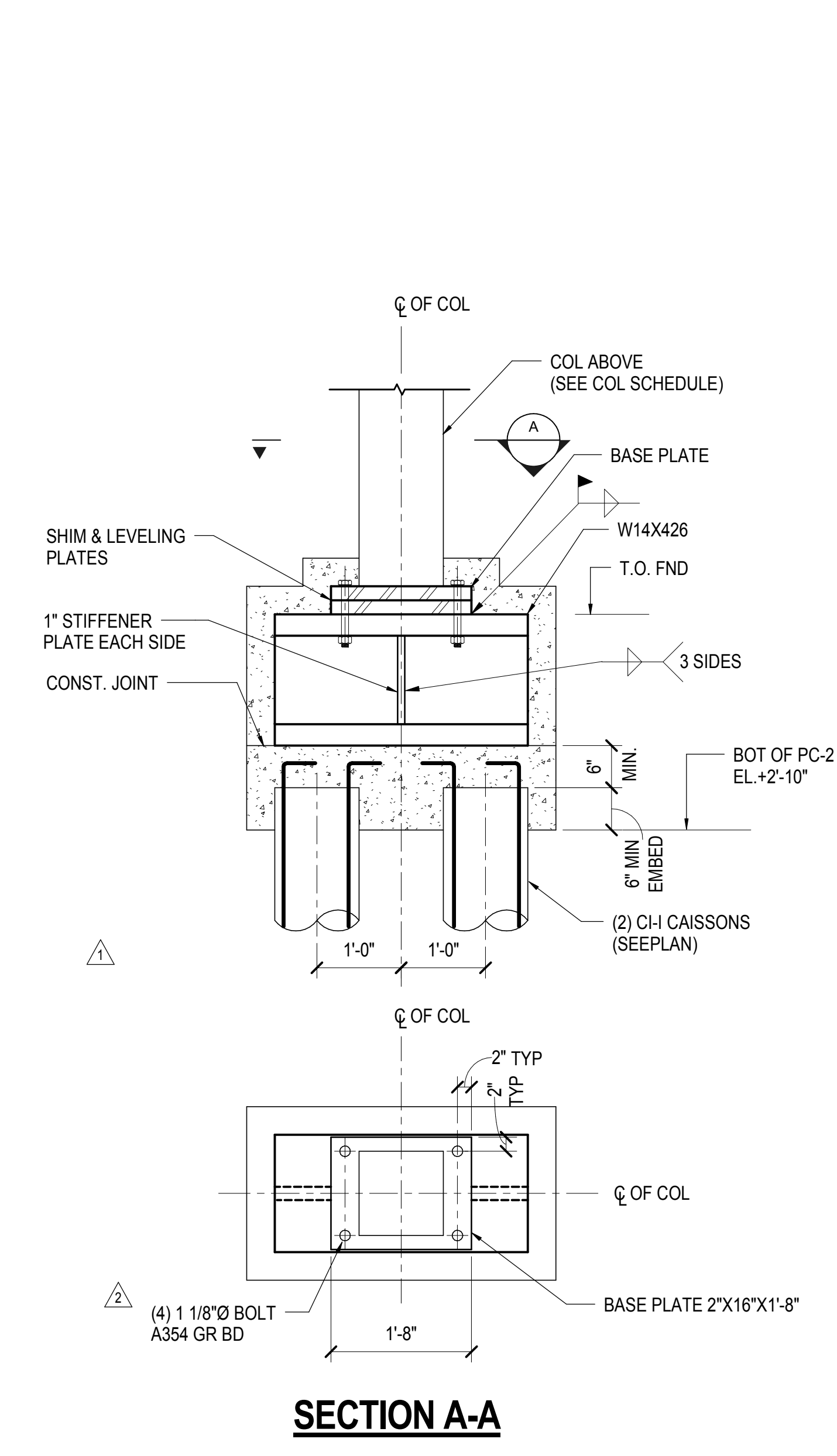
© 2012 KOHN PEDERSEN FOX ASSOCIATES PC. All rights reserved.



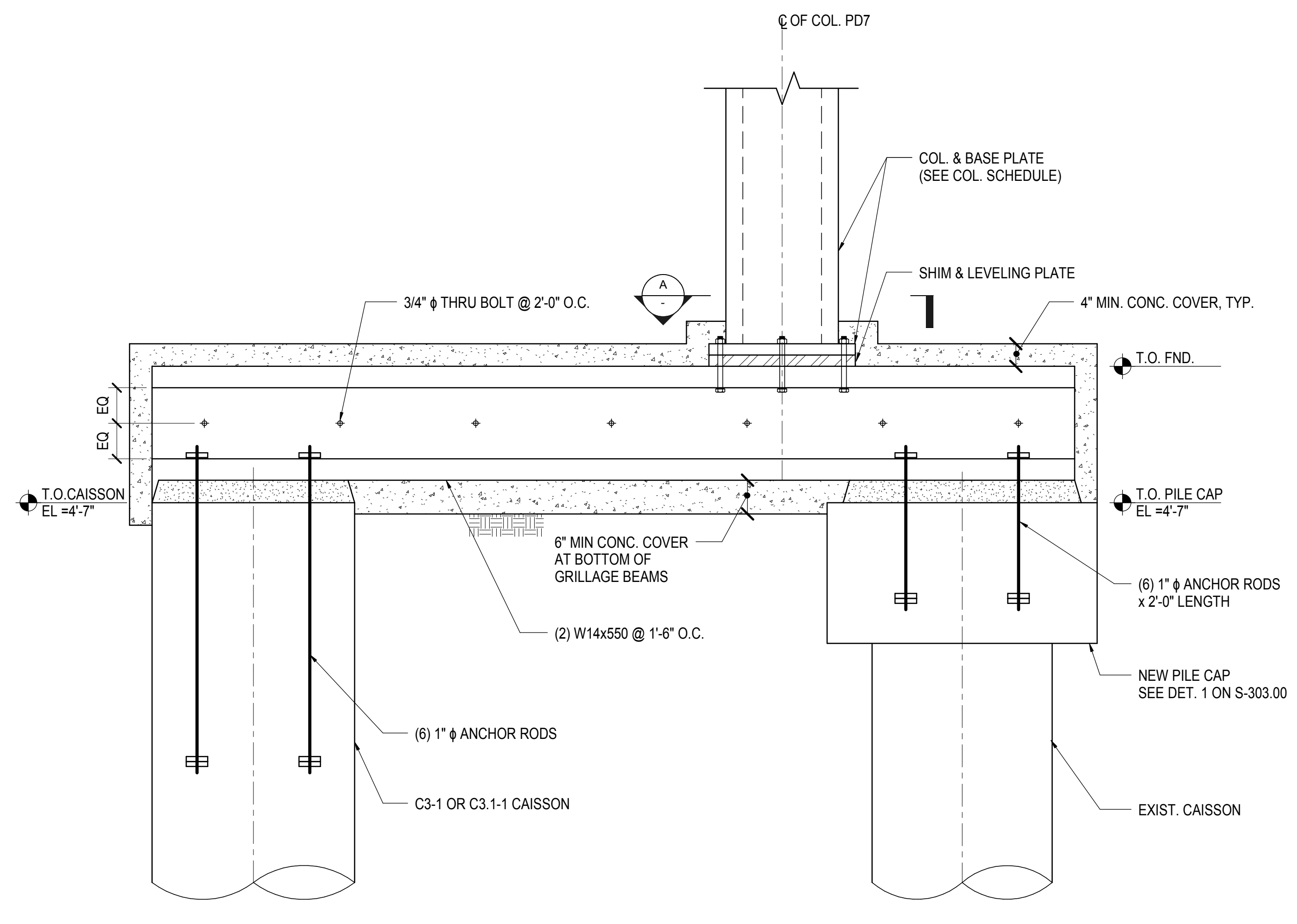
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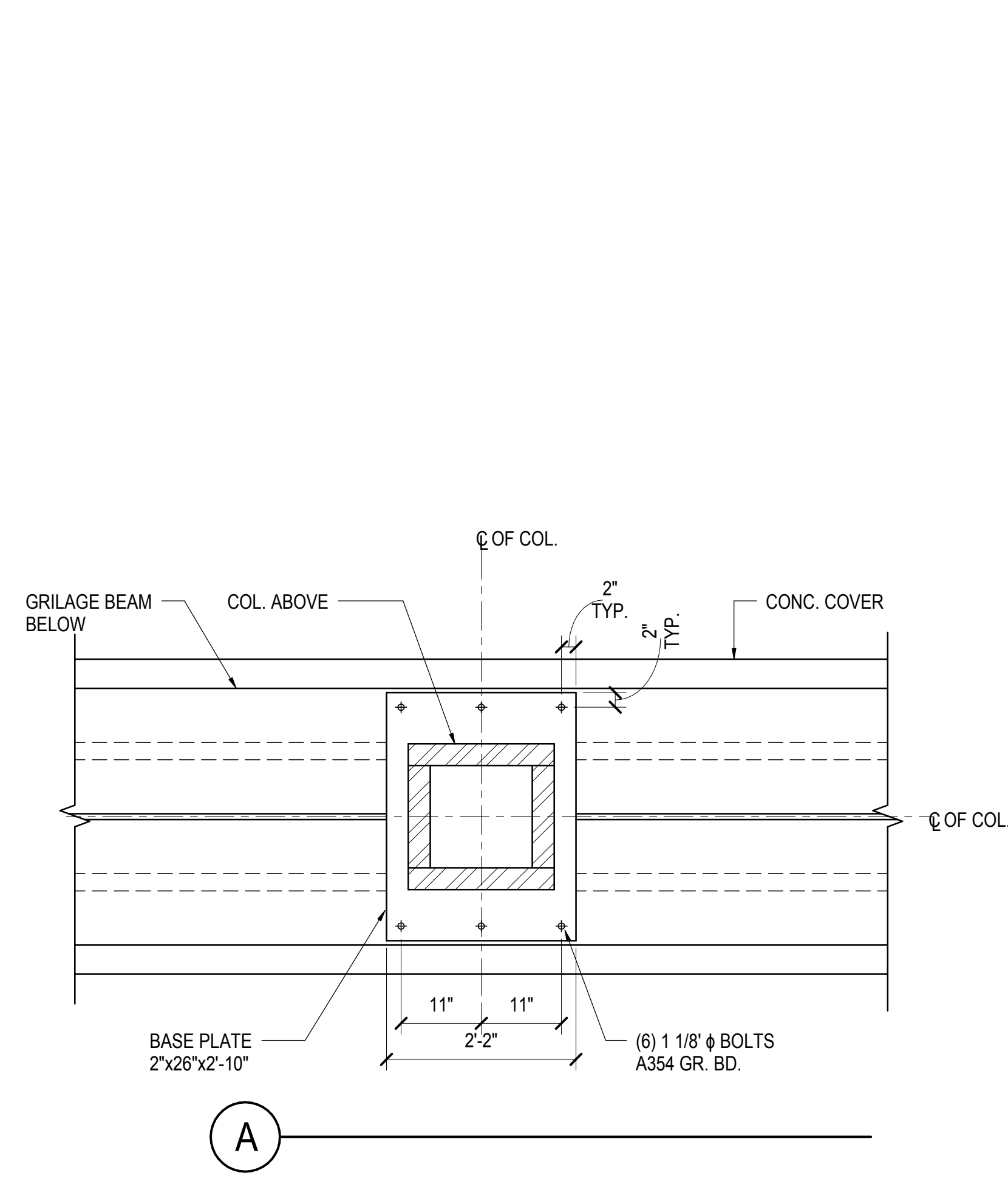
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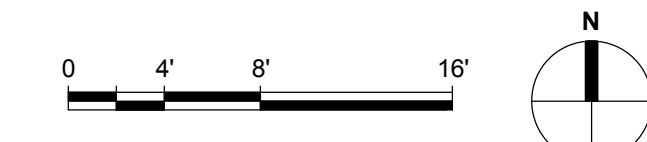
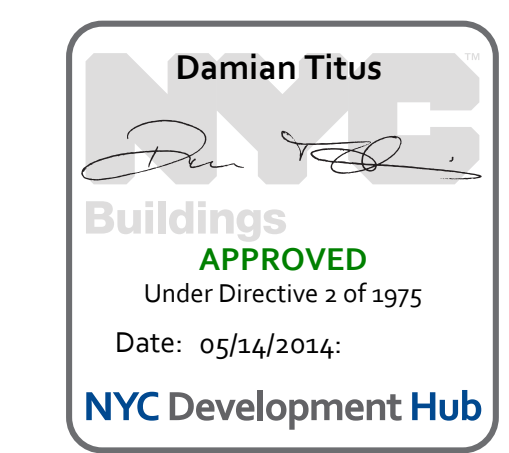
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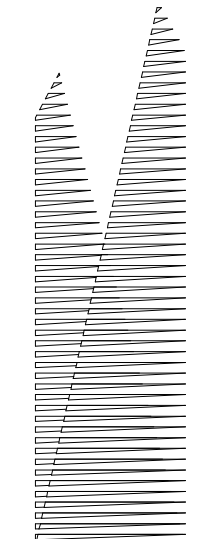
**3 TRANSFER GRILLAGE BEAM AT COL. PD7**  
3/4\"/>



**A**







*Client*  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

*Owner*  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
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*Construction Manager*  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

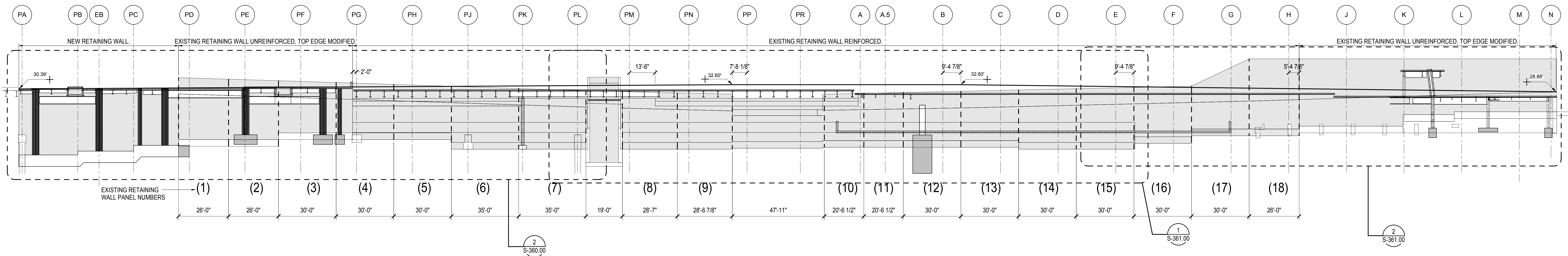
*Architect*  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

*Structural Engineer*  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

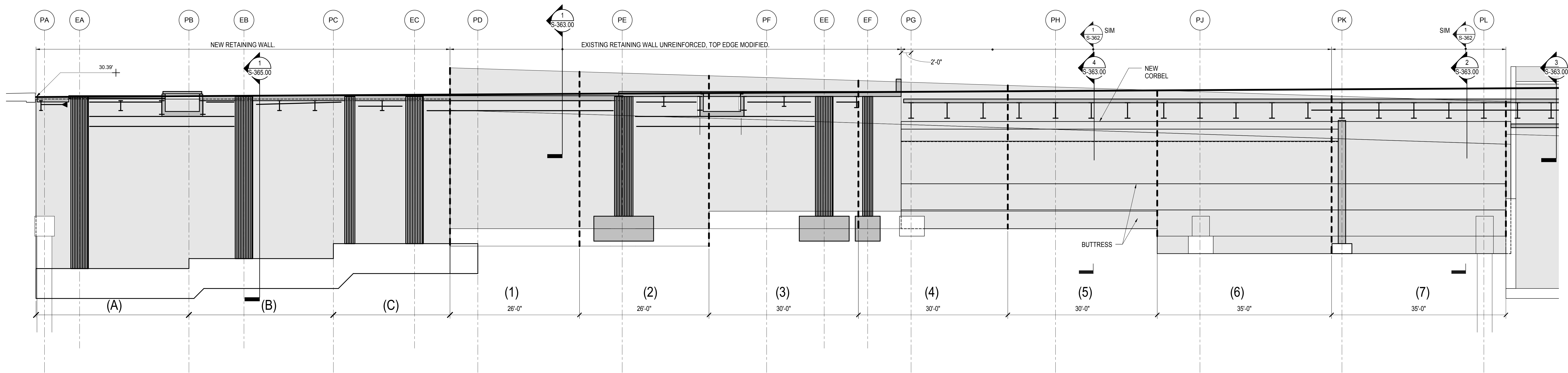
*Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Personnel Transportation Group*  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

*LIRR Ventilation*  
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*LIRR Substation*  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



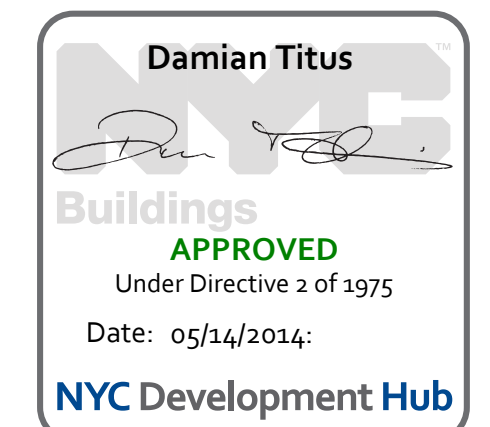
① **RETAINING WALL @33rd STREET - FULL ELEVATION**  
1" = 20'-0"



② **2/360 - RETAINING WALL @33rd STREET - ELEVATION FROM 11TH AVE TO GRIDLINE PL**  
1/8" = 1'-0"

NYC DOB FILING	12/4/2013
NYC DOB FILING	12/4/2013
L.I.R.C. - PRE-FINAL 100%	11/22/2013
M&E - PLATFORM SUBMISSION	
2. D402 PHASE 1 STRUCTURAL UPDATE	11/1/2013
3. Description	2013

For Plot

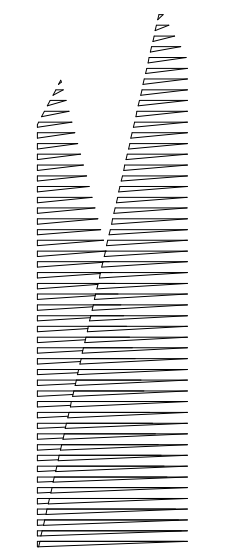


Project No. 11/01/13  
Title No. N11330.00  
Author

**HYE -PL -S-360.00**  
**RETAINING WALL @  
33rd STREET -  
ELEVATIONS I**

Drawing Number / B/S/C/N Drawing Number  
**S-360.00**





Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

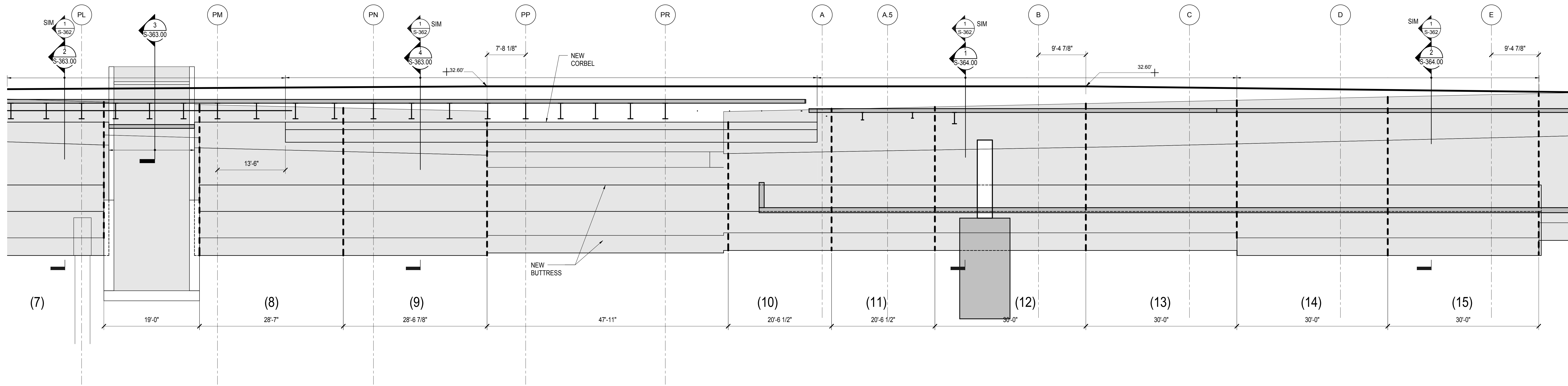
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

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Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
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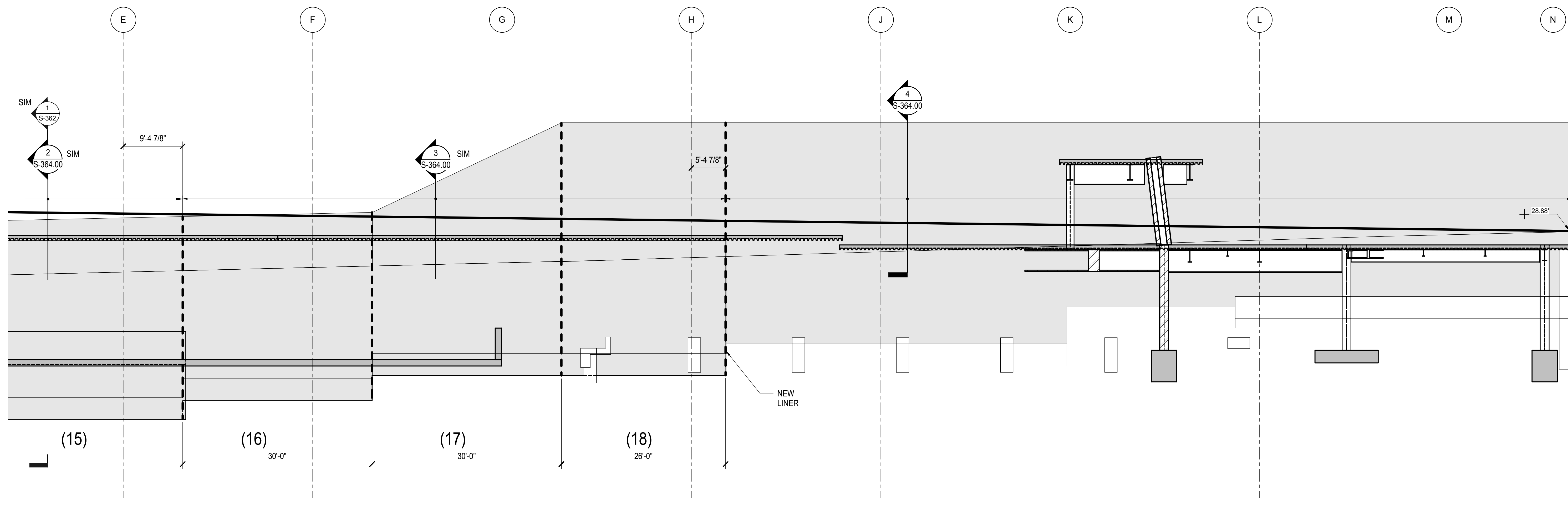
LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
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1 RETAINING WALL @33rd STREET - ELEVATION FROM GRIDLINE PL TO GRIDLINE E

1/8" = 1'-0"



2 RETAINING WALL @33rd STREET - ELEVATION FROM GRIDLINE E TO 10th AVE

1/8" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PREL-FINAL 100%	11/22/2013
M&E - PLATFORM SUBMISSION	
2. D4-D PHASE 1 STRUCTURAL UPDATE	11/1/2013
Rev	Description

Rev Plot

Date: 11/01/13

Project No: N11330.00

Author

Issue Number

**HYE - PL - S-361.00**

Drawing Title

**RETAINING WALL @**

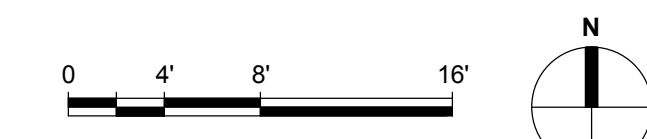
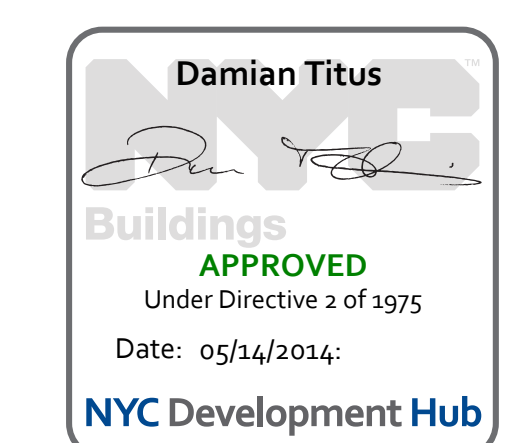
**33rd STREET -**

**ELEVATIONS II**

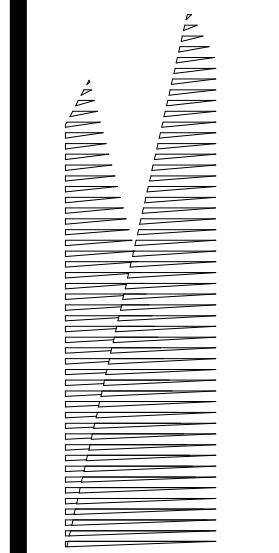
Drawing Number / B/S/C/S Drawing Number

**S-361.00**

SHEET 110 OF 201







Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

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Structural Engineer  
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51 Madison Avenue  
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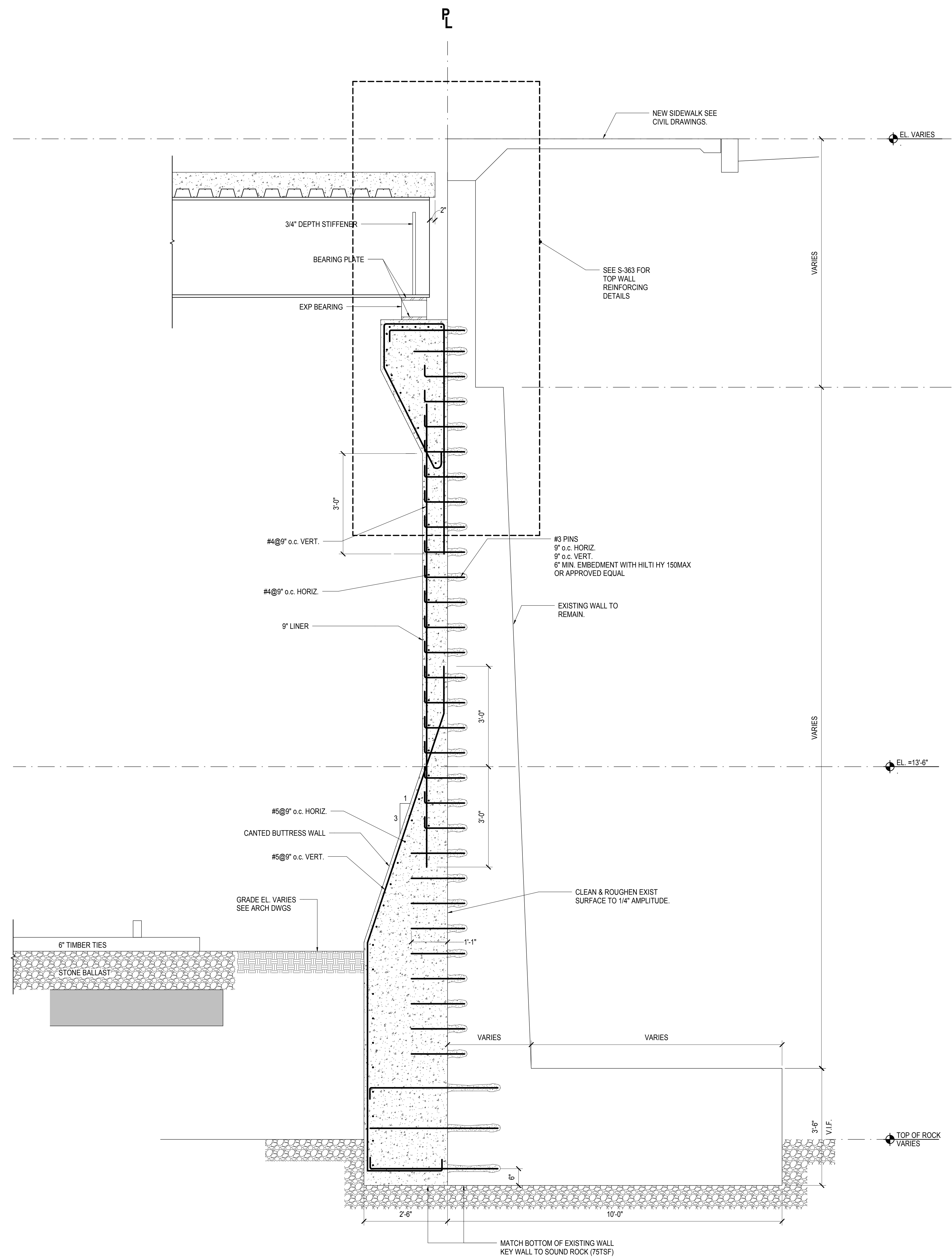
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

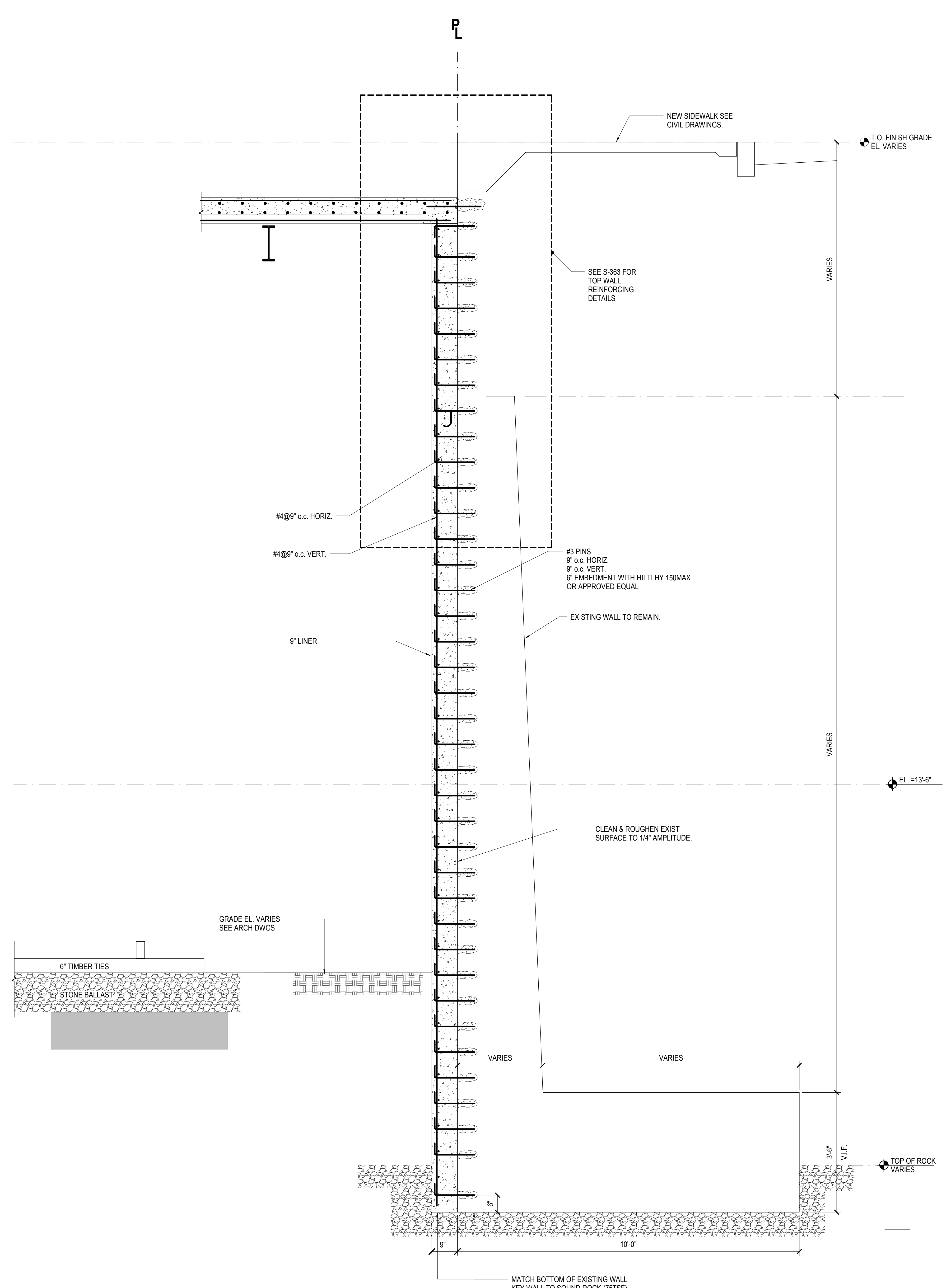
LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

NYC DOB FILING	12/4/2013
L.I.R.R. - PREL-FINAL 100%	11/22/2013
M&E - PLATFORM SUBMISSION	
2. DHD PHASE 1 STRUCTURAL UPDATE	11/1/2013
Rev	Desc

Rev Plot



**1 TYPICAL SECTION REINFORCED WALL WITH BUTTRESS**  
3/4" = 1'-0"



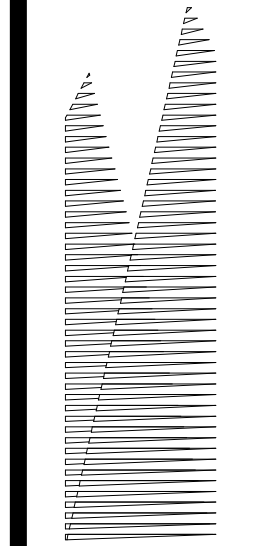
**2 TYPICAL SECTION REINFORCED WALL**  
3/4" = 1'-0"



Drawn By: 11/01/13  
Project No: N11330.00  
Checked By: Author  
Sheet Number:  
**HYE -PL -S-362.00**  
Drawing Title:  
**RETAINING WALL @  
33rd STREET - TYPICAL  
SECTIONS**

RETAINING WALL @ 33rd STREET - TYPICAL SECTIONS  
 S-362.00  
 11/22/2013 1:38:58 PM  
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60 Columbus Circle  
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Tel: 212.801.1000 Fax: 212.801.1048

Officer Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

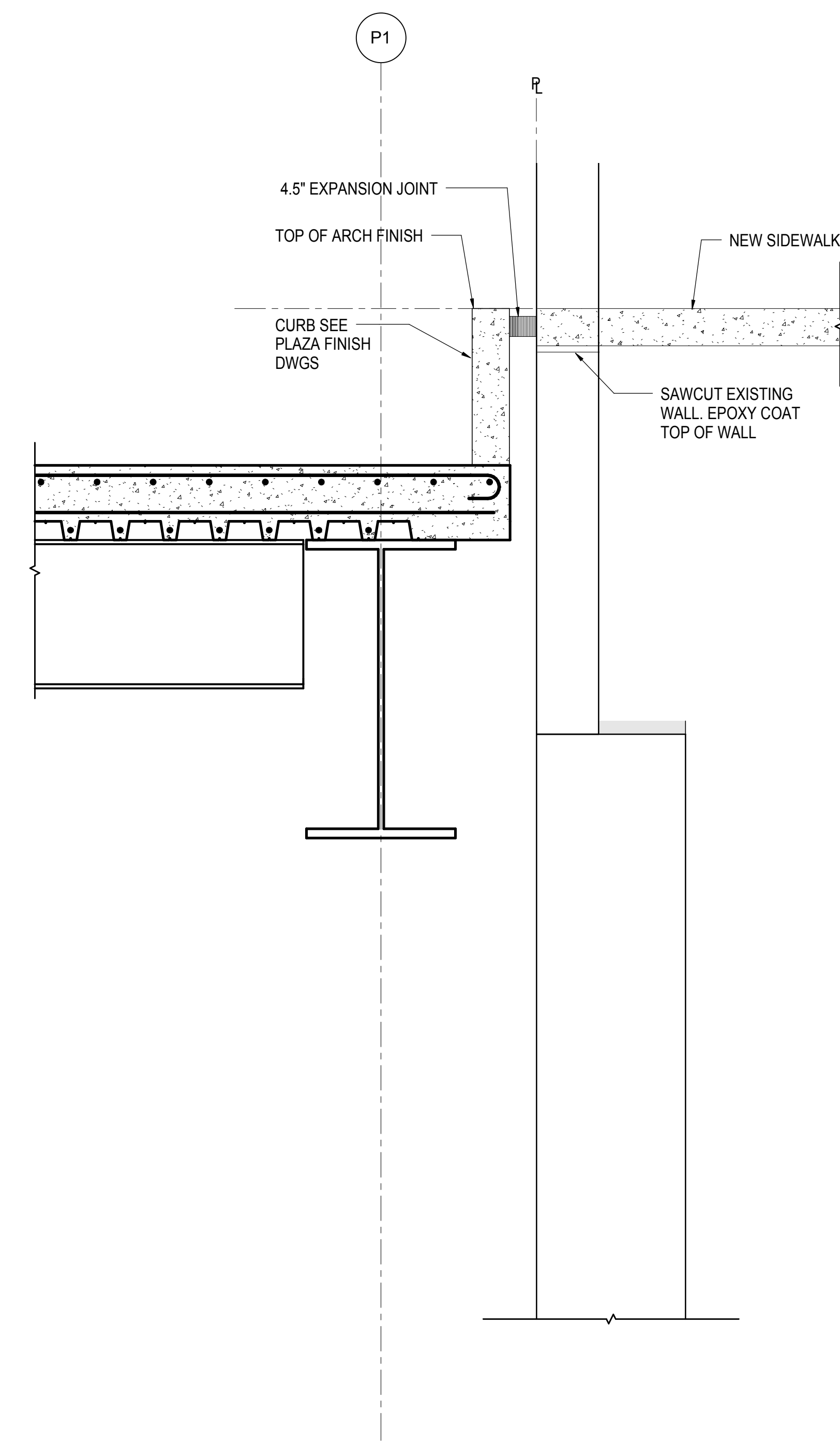
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

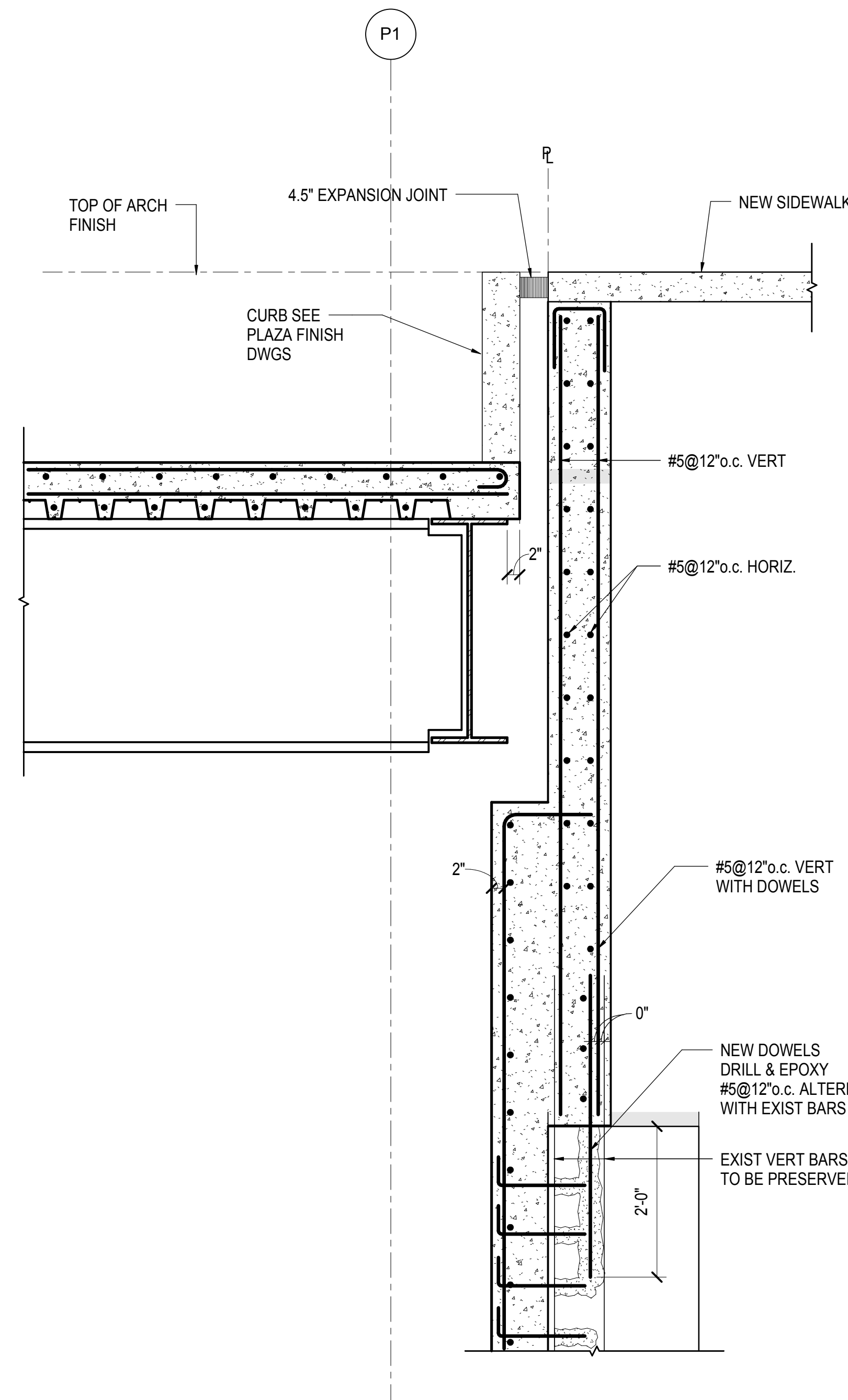
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

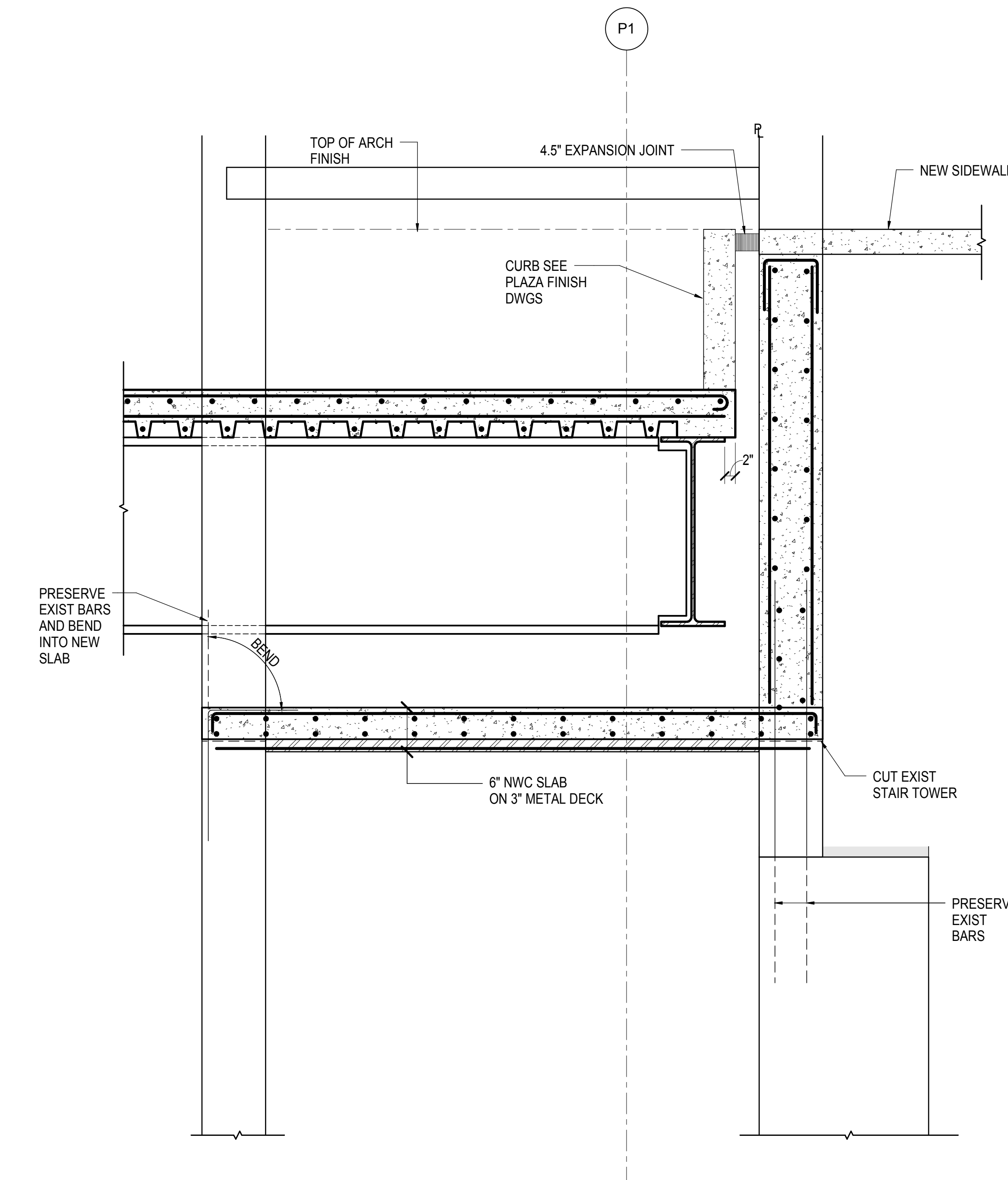
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605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



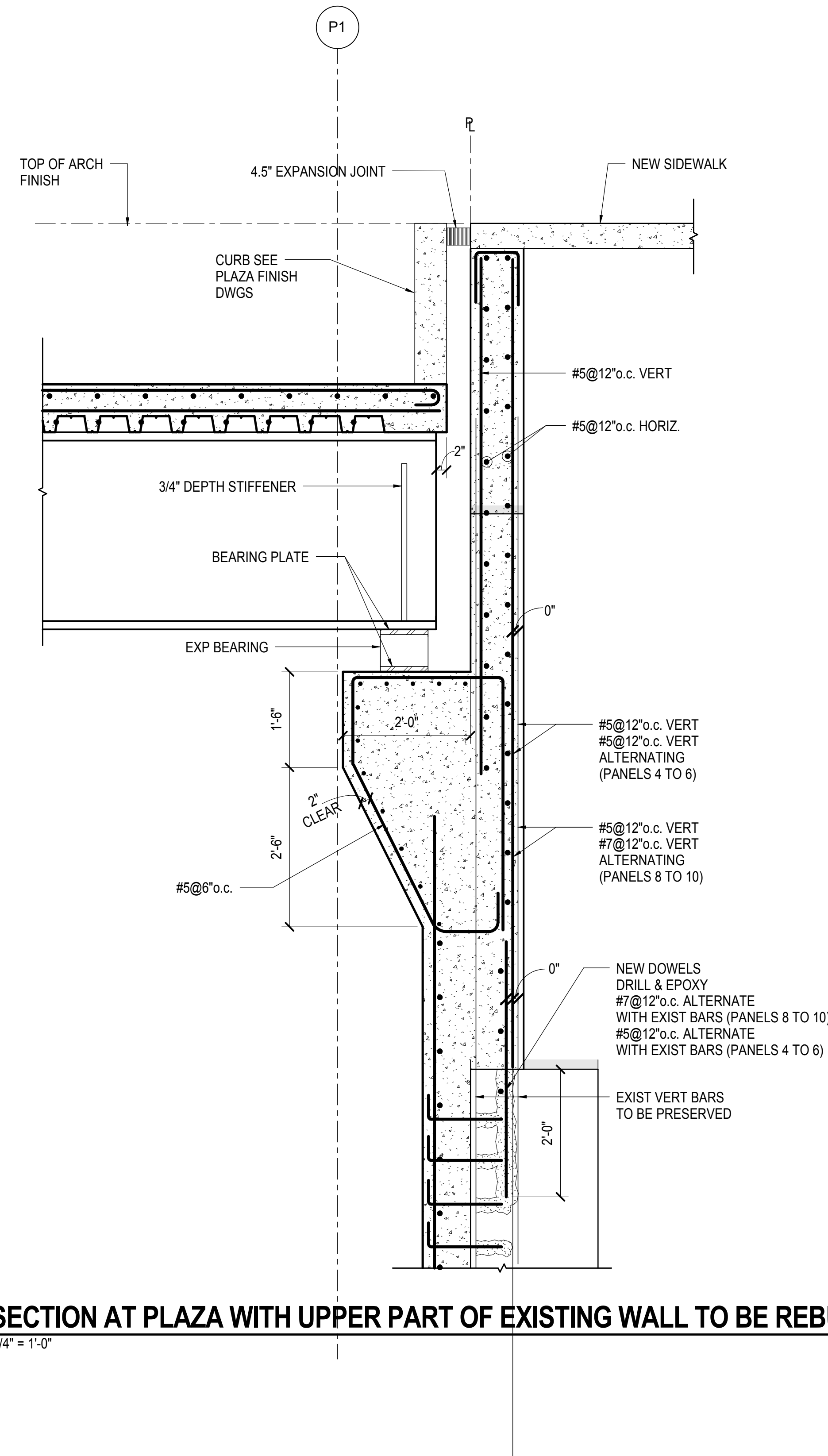
1 SECTION AT PLAZA WITH EXISTING WALL HIGHER THAN TOP OF CURB - NO LINER  
3/4" = 1'-0"



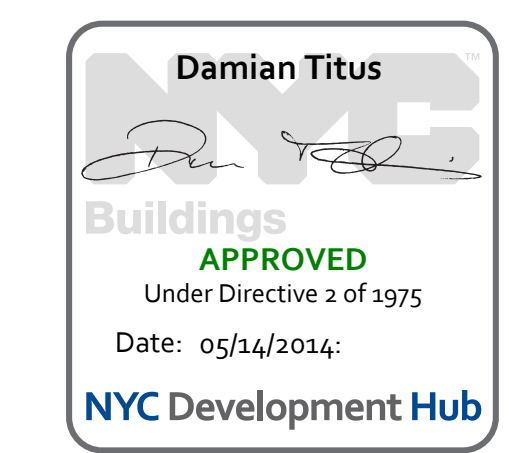
2 SECTION AT PLAZA WITH EXISTING WALL REBUILT - NO CORBEL  
3/4" = 1'-0"



3 SECTION AT PLAZA - EXISTING AMTRACK STAIRTOWER  
3/4" = 1'-0"



4 SECTION AT PLAZA WITH UPPER PART OF EXISTING WALL TO BE REBUILT  
3/4" = 1'-0"



NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&E-PLATFORM SUBMISSION	
2. D4-D PHASE 1 STRUCTURAL UPDATE	11/1/2013

Date: 11/01/13  
Project No: N11330.00  
Author: Author  
Sheet Number: Author

**HYE -PL -S-363.00**  
Drawing Title:  
**RETAINING WALL @ 33rd STREET - TOP SECTION DETAILS I**

Drawing Number / Revision Drawing Number  
**S-363.00**

11/22/2013 1:40:22 PM  
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5:30.00  
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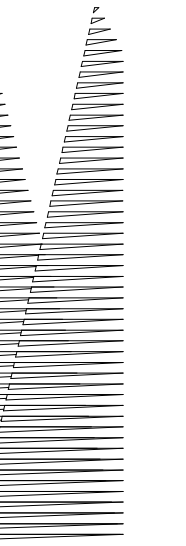












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Related Companies  
60 Columbus Circle  
New York, NY 10023  
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320 Park Avenue, 17th Floor  
New York, NY 10022  
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Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

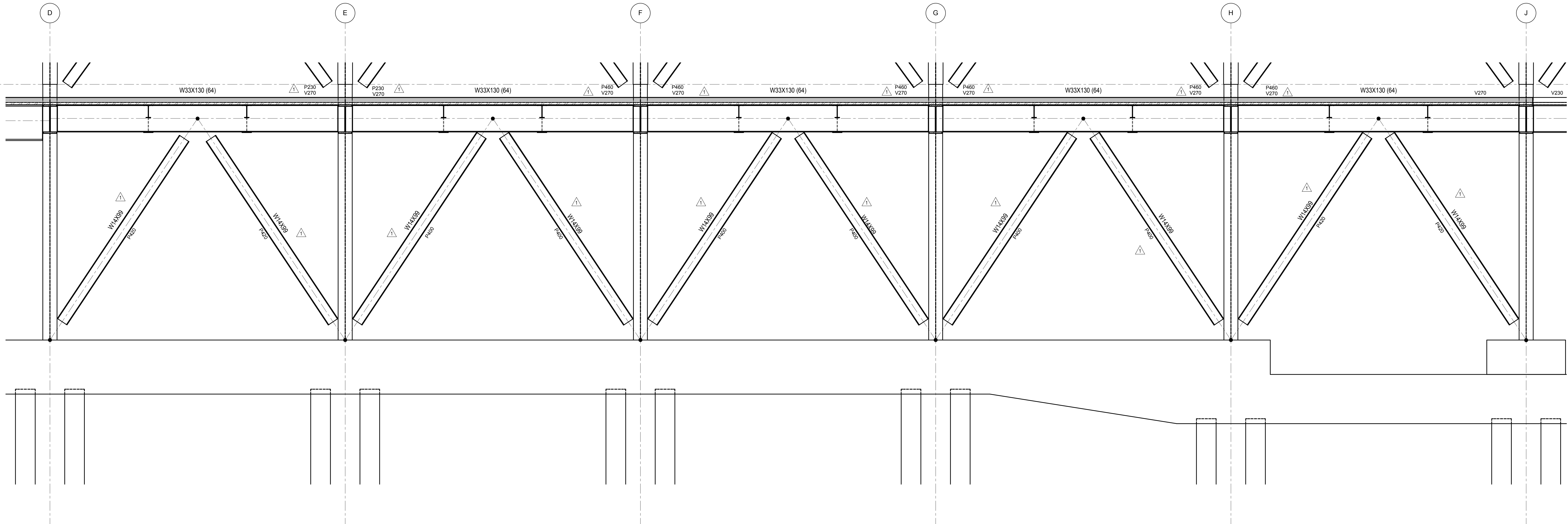
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
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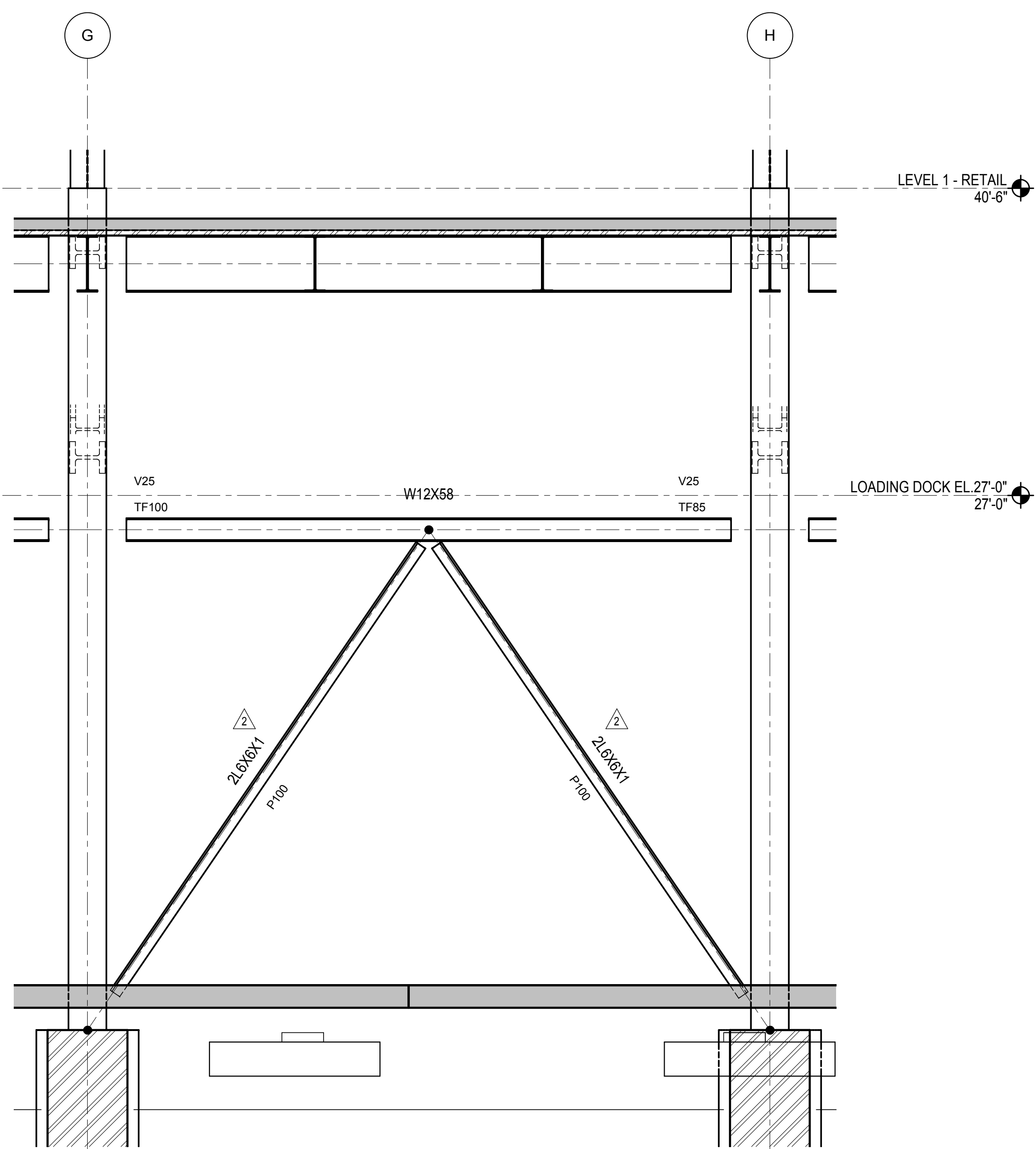
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
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**1 BRACED FRAME AT GRID 1**  
1/4" = 1'-0"



**2 BRACED FRAME AT GRID 5**  
1/4" = 1'-0"

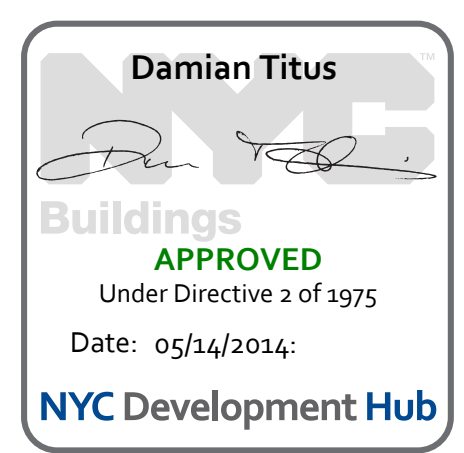
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L.I.R.R. - PRE-FINAL 100%	11/22/2013
Mod. - PLATFORM SUBMISSION	
Δ DEQ PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ DEQ PHASE 1 STRUCTURE UPDATE	9/20/2013
L.I.R.R. - 60% SUBMISSION	8/29/2013
NYC DOB FILING	6/17/2013
L.I.R.R. - 60% SUBMISSION	5/28/2013
Rev	Description

Rev. Plan

Date: 05/29/2013  
Project No: N11330.00  
Author: Damian Titus

**HYE - PL - S-400.00**  
Drawing Title  
**EAST PLATFORM BRACED FRAME ELEVATIONS**

Drawing Number / B/S/C/S Drawing Number  
**S-400.00**  
SHEET 115 OF 201



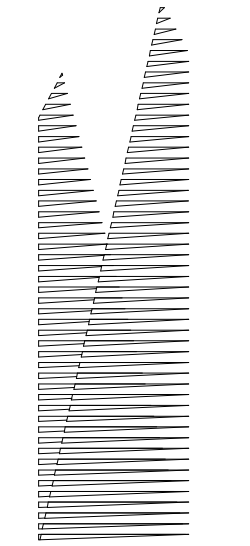












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PC Architects & Planning Consultants  
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L.I.R.R. - PRE-FINAL 100%	11/22/2013
MdL - PL PLATFORM SUBMISSION	
A. DBO PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
A. DBO PHASE I STRUCTURE UPDATE	9/20/2013
W. Description	Rev.

Rev. Plot

Date: 08/09/13  
Project No: N11330.00  
Title: Author  
Sheet Number

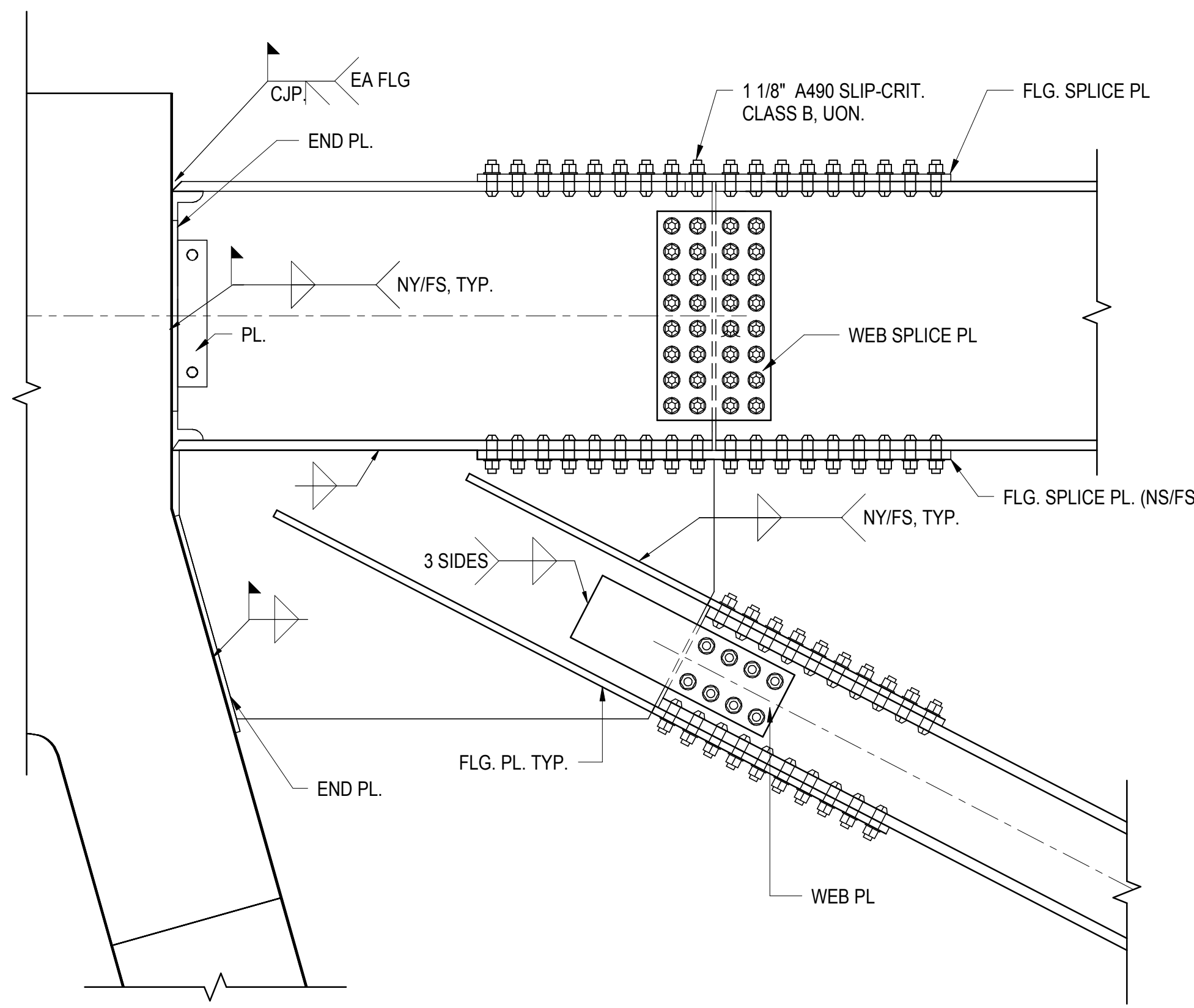
**HYE-PL-S-403.00**

**VERTICAL BRACE  
SECTIONS AND  
DETAILS**

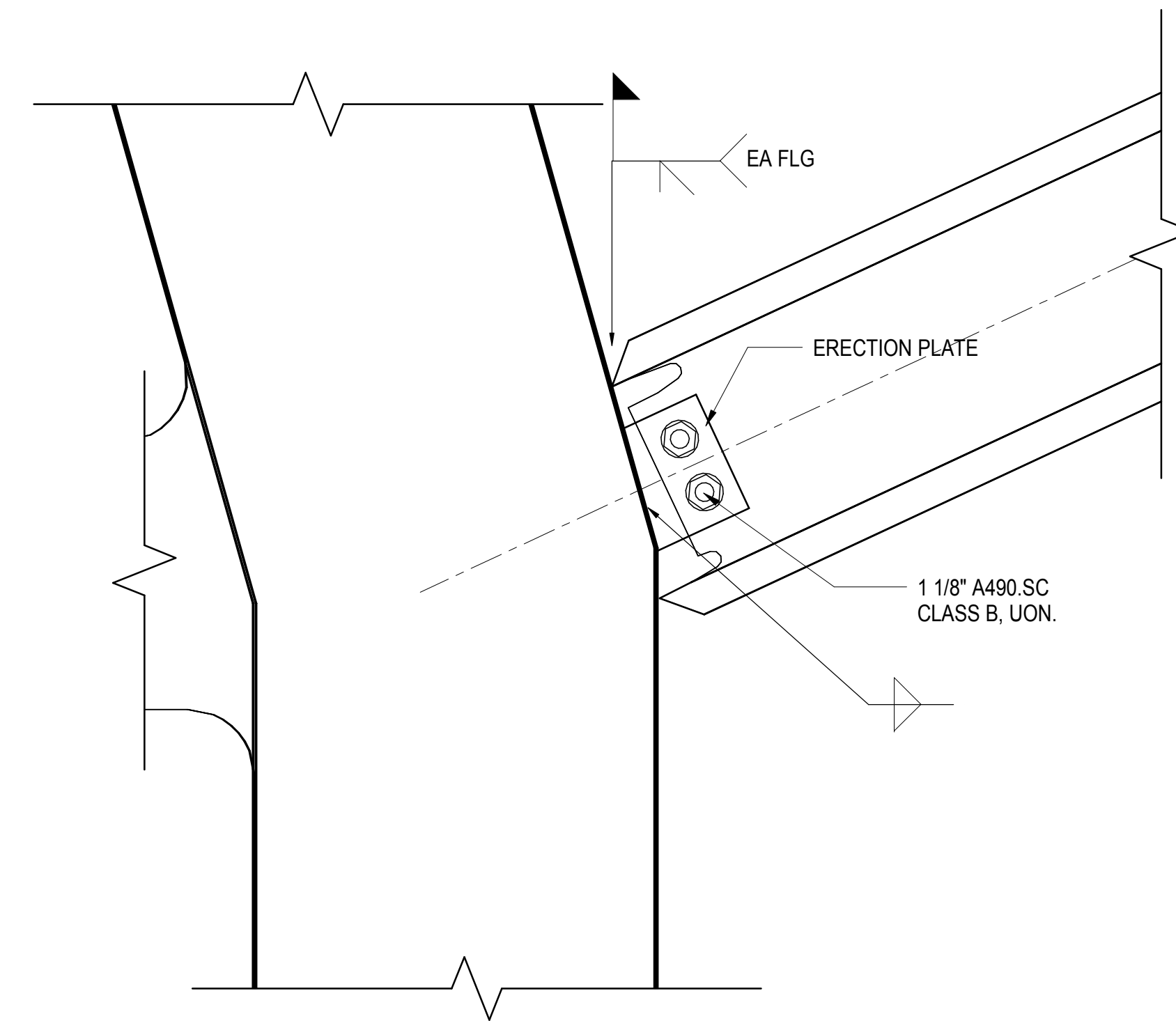
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**S-403.00**

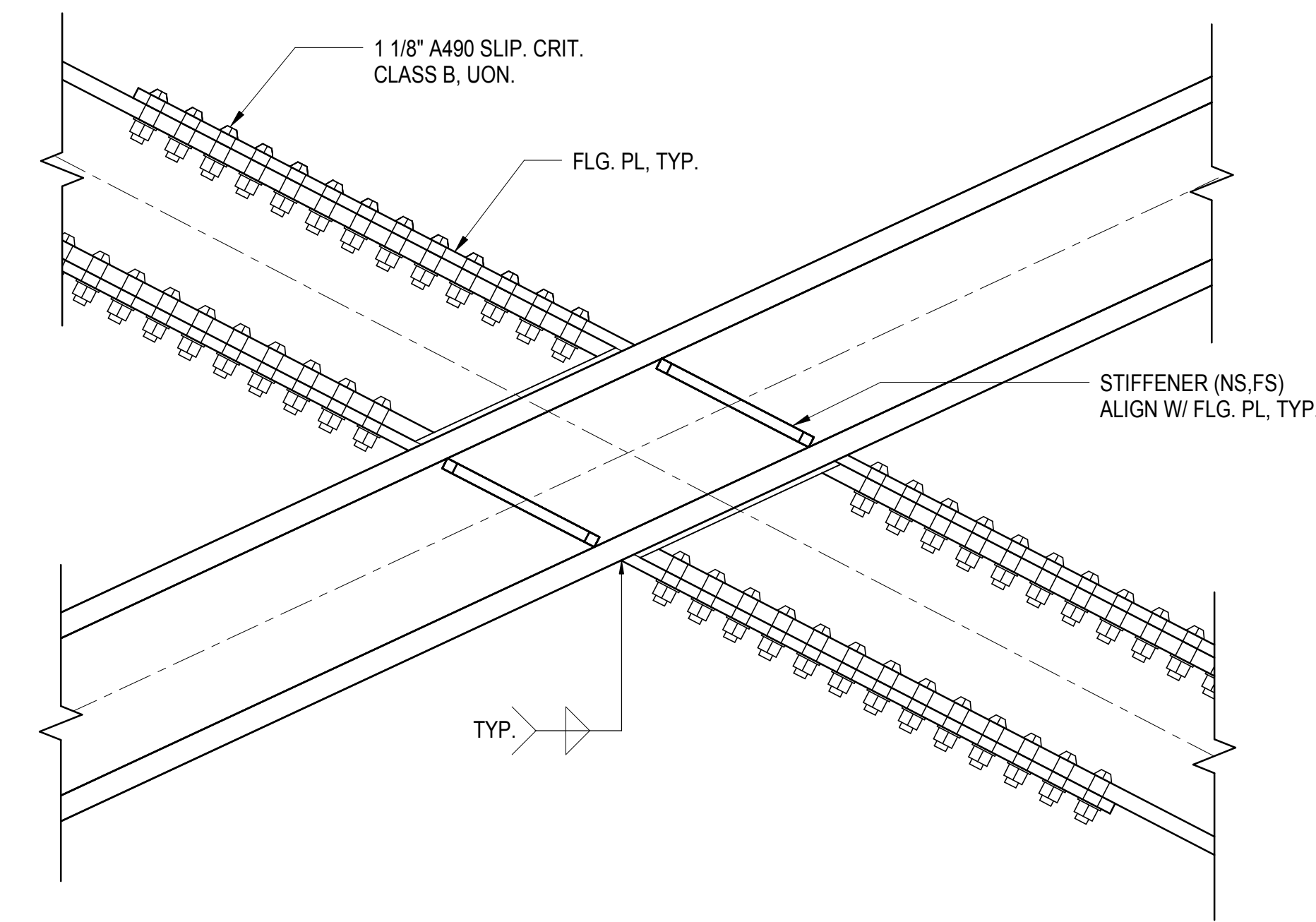
SHEET 118 OF 201



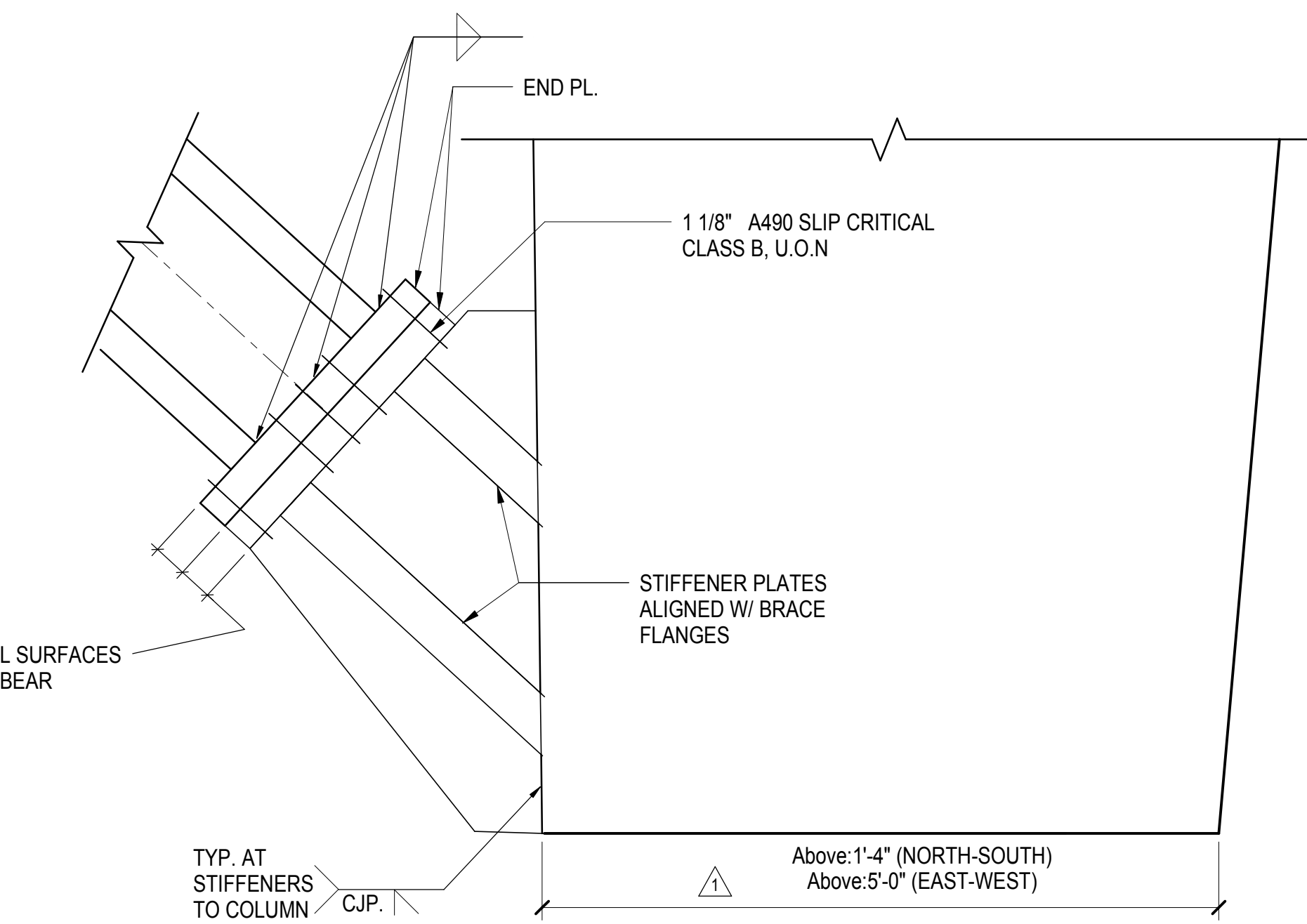
**1 BOLTED BRACE CONNECTION TO A-FRAME COLUMN**  
3/4" = 1'-0"



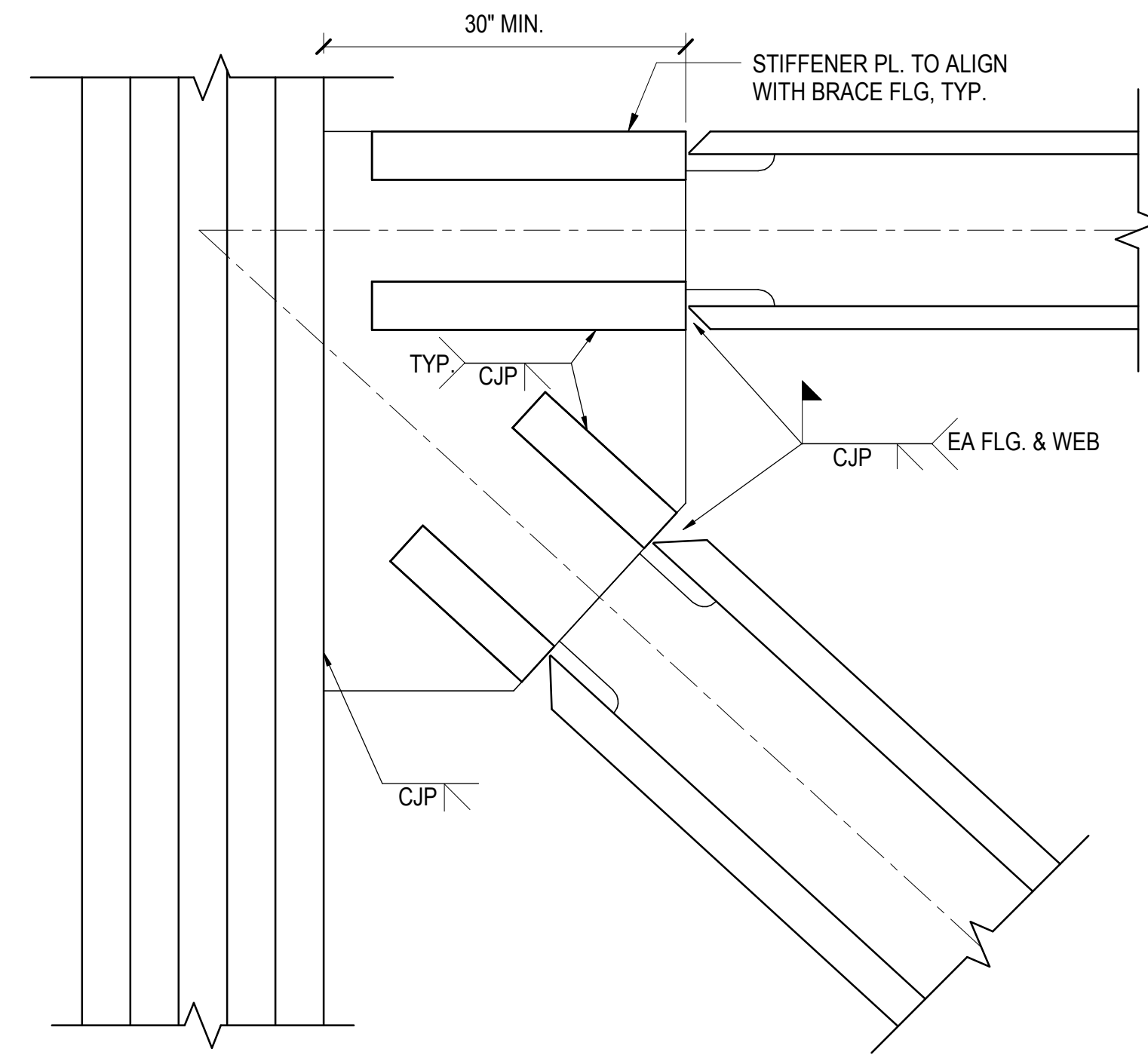
**2 FIELD WELDED BRACE CONNECTION TO A-FRAME COLUMN KINK**  
1 1/2" = 1'-0"



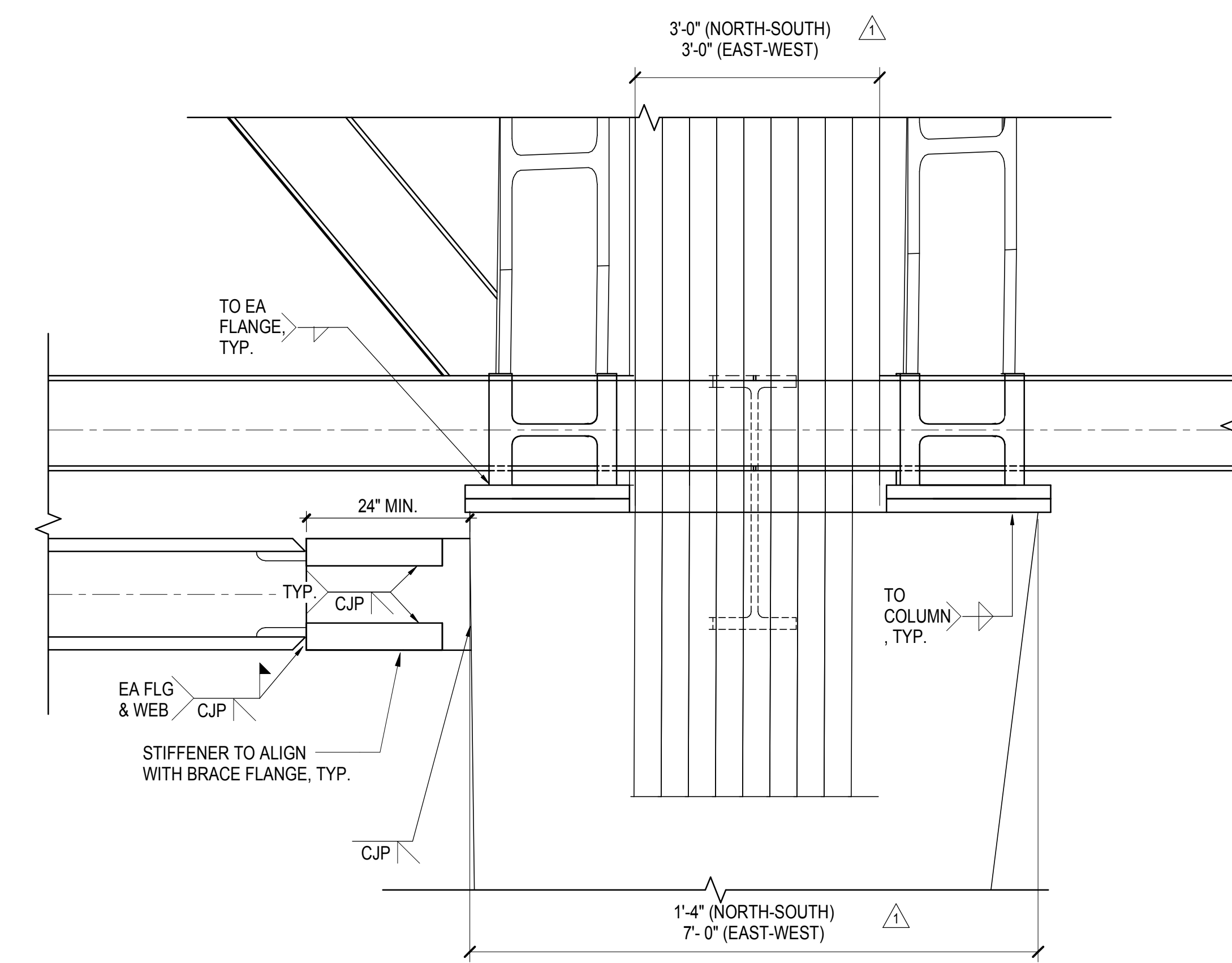
**3 X-BRACE CONNECTION DETAIL AT MIDDLE JOINT**  
1" = 1'-0"



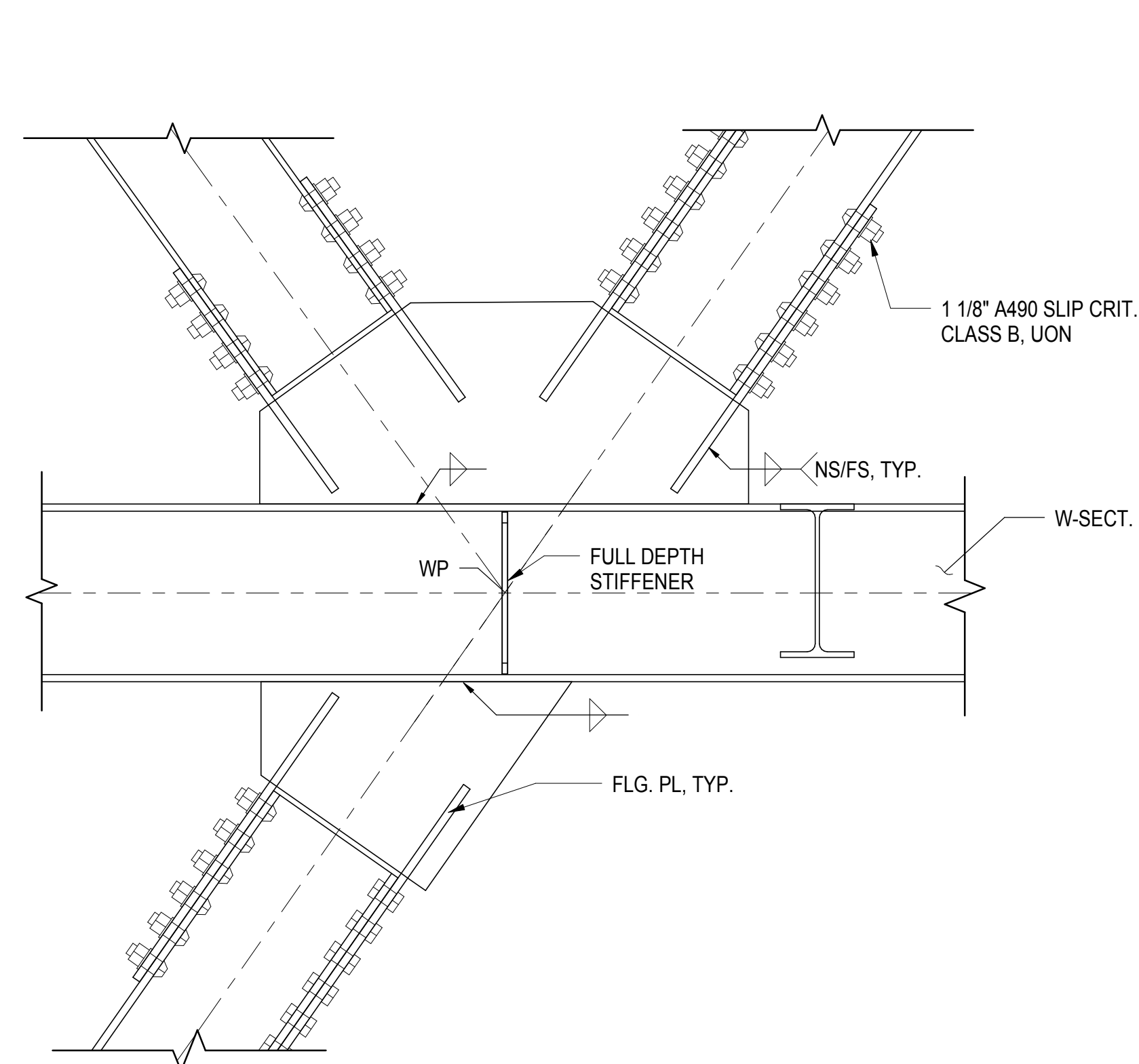
**4 END PLATE BRACE DETAIL AT BOTTOM OF SLOPED COLUMN**  
1" = 1'-0"



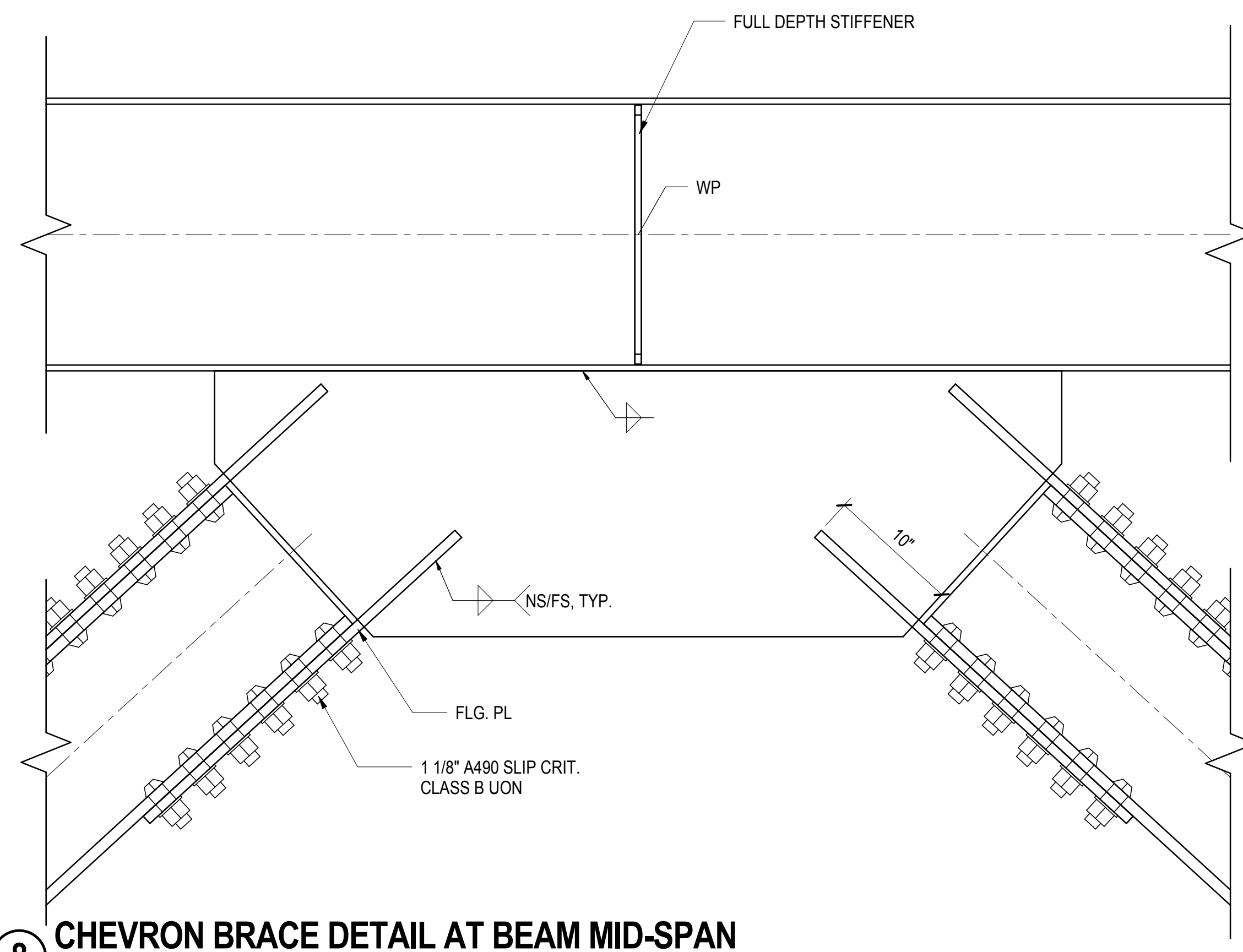
**5 FIELD WELDED BRACE DETAIL AT TOP CORNER**  
1" = 1'-0"



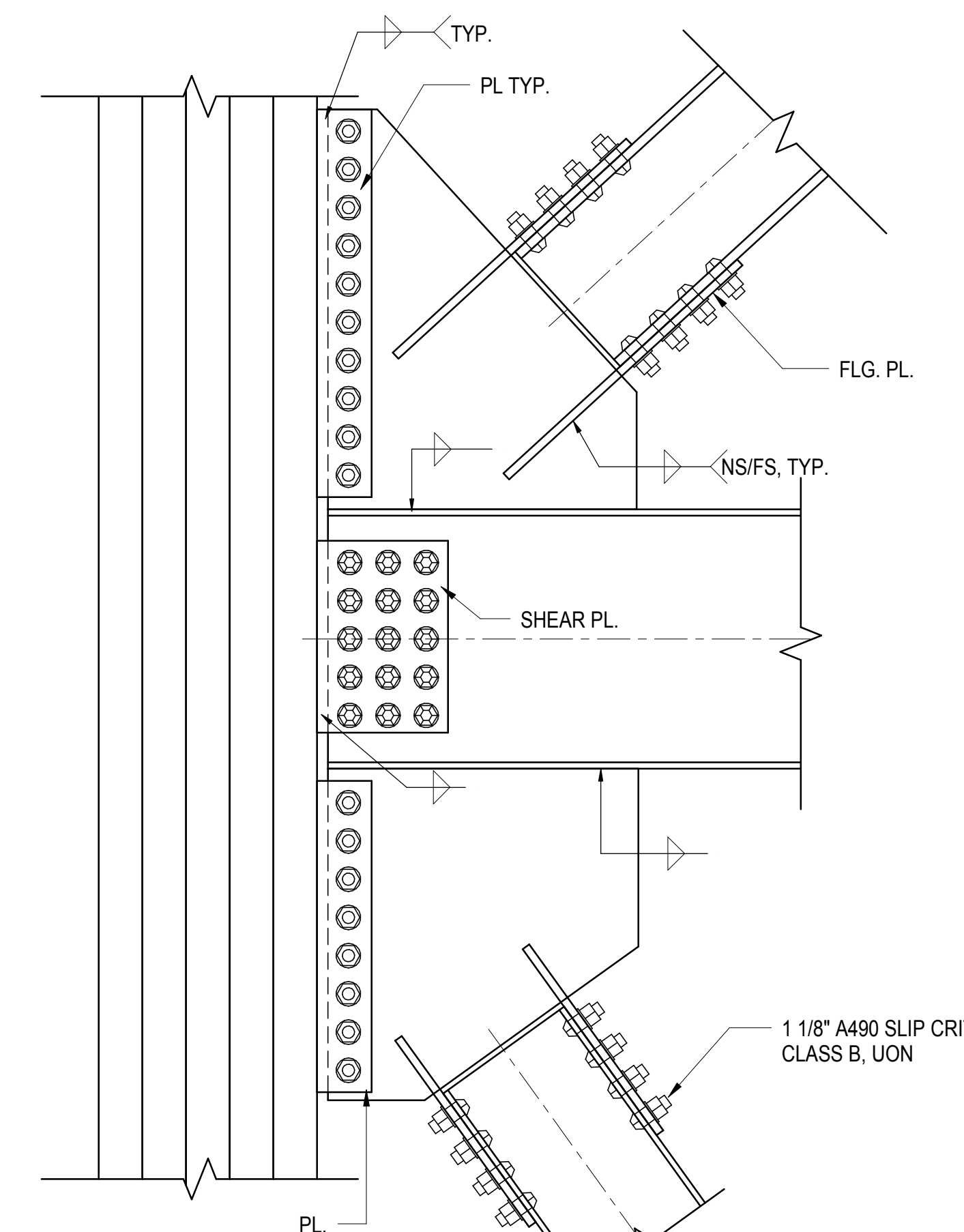
**6 FIELD WELDED BRACE DETAIL AT SLOPED COLUMN TOP**  
3/4" = 1'-0"



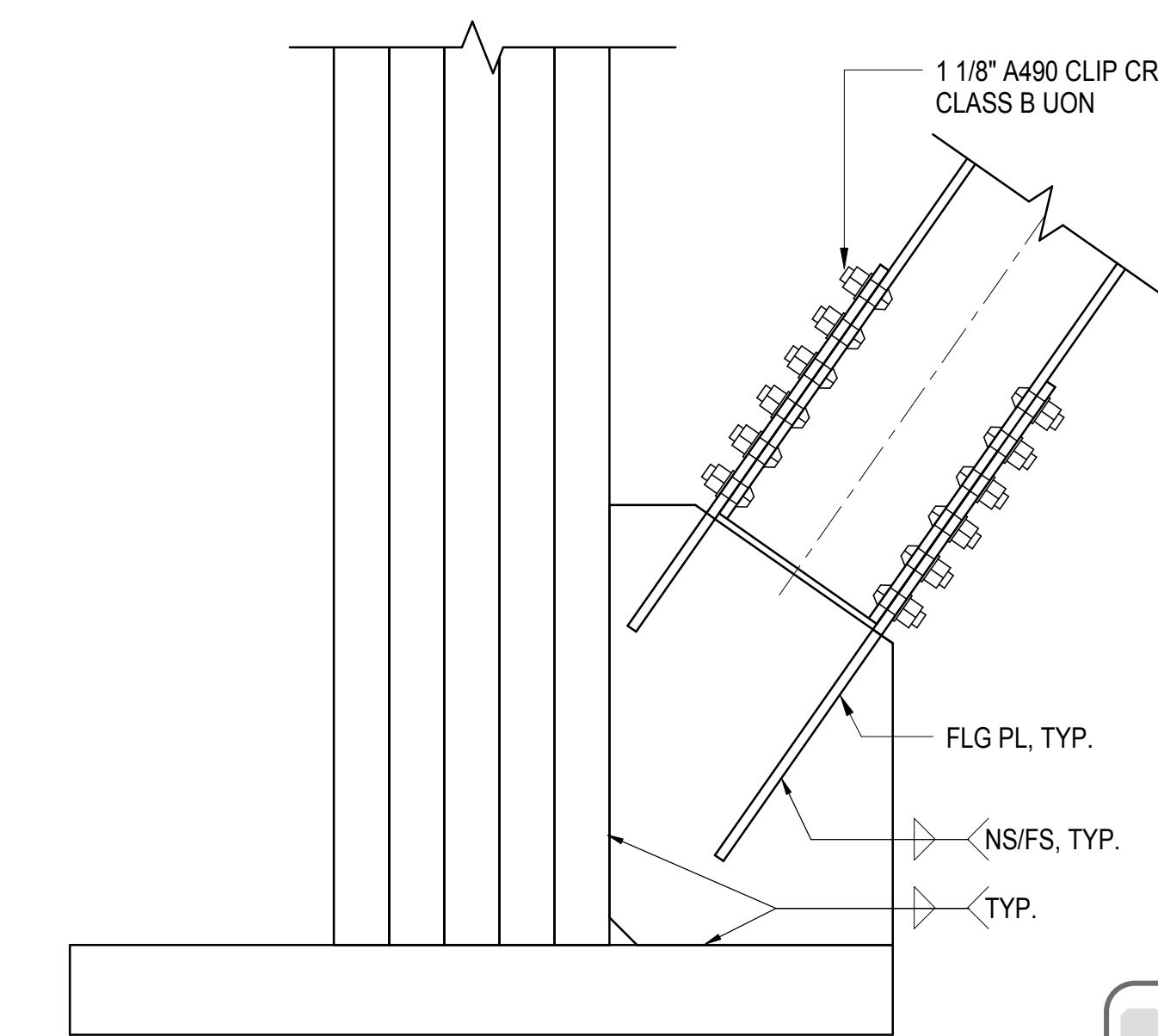
**7 BOLTED BRACE DETAIL AT 3-WAY INTERSECTION**  
1" = 1'-0"



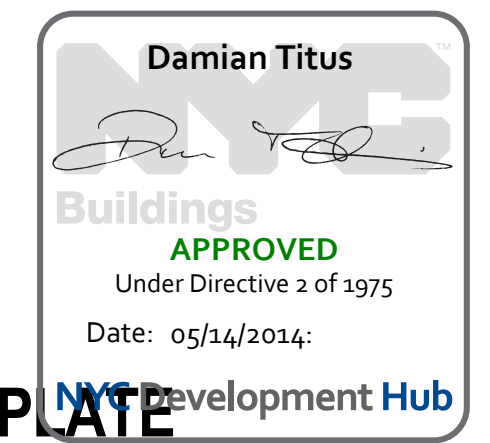
**8 CHEVRON BRACE DETAIL AT BEAM MID-SPAN**  
1 1/2" = 1'-0"



**9 BRACE DETAIL AT BOLTED CONNECTION TO BUILT-UP COLUMN**  
1" = 1'-0"



**10 BRACE DETAIL AT CONNECTION TO BASE PLATE**  
1" = 1'-0"



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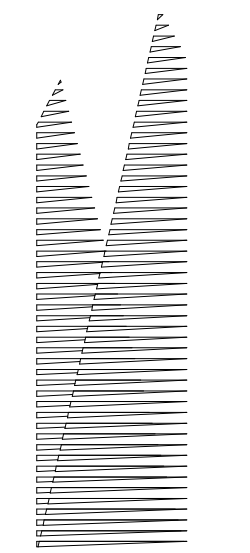












Client  
Related Companies  
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PC Architects & Planning Consultants  
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Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

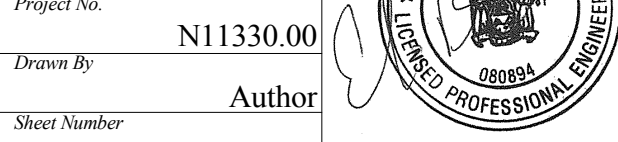
LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T PLATFORM SUBMISSION	
Δ D142 PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ D141 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE 1 FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
W Description	Date

See Plan

Date: 02/15/2013  
Project No: N11330.00  
Drawn By: Author  
Sheet Number:



**HYE - PL - S-412.00**

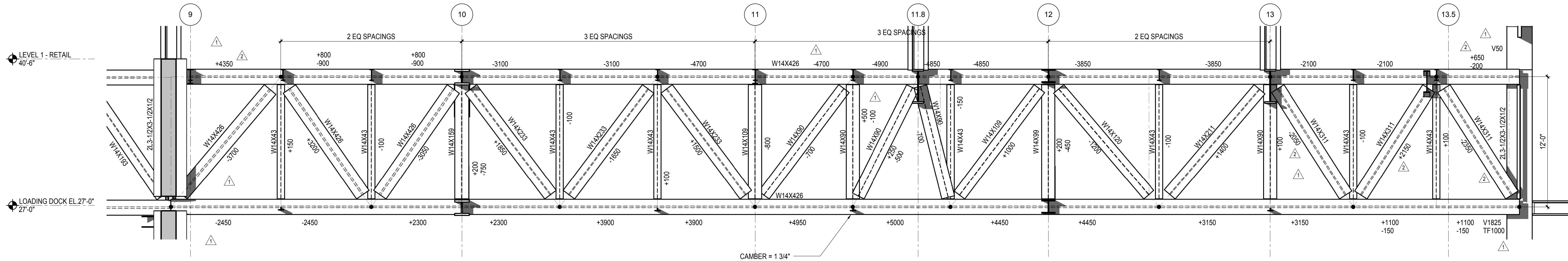
**EAST PLATFORM TRUSS ELEVATIONS AT GRID B**

Drawing Number / B/S/C/A/N Drawing Number

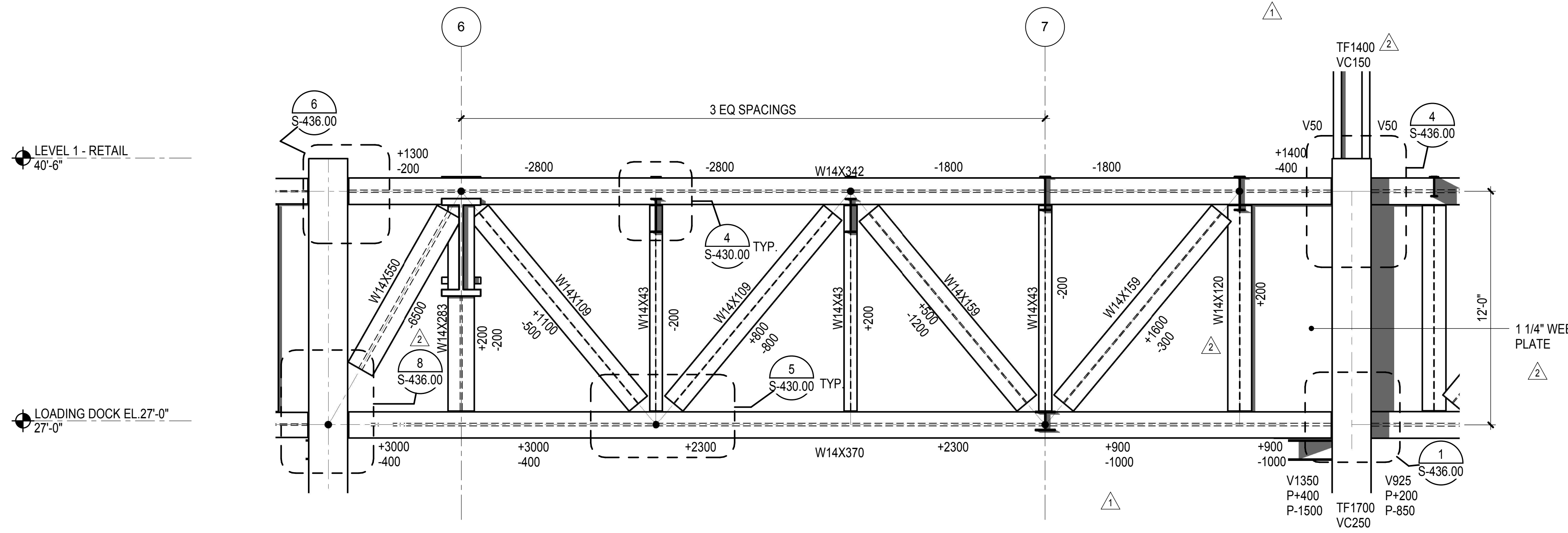
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SHEET 121 OF 201

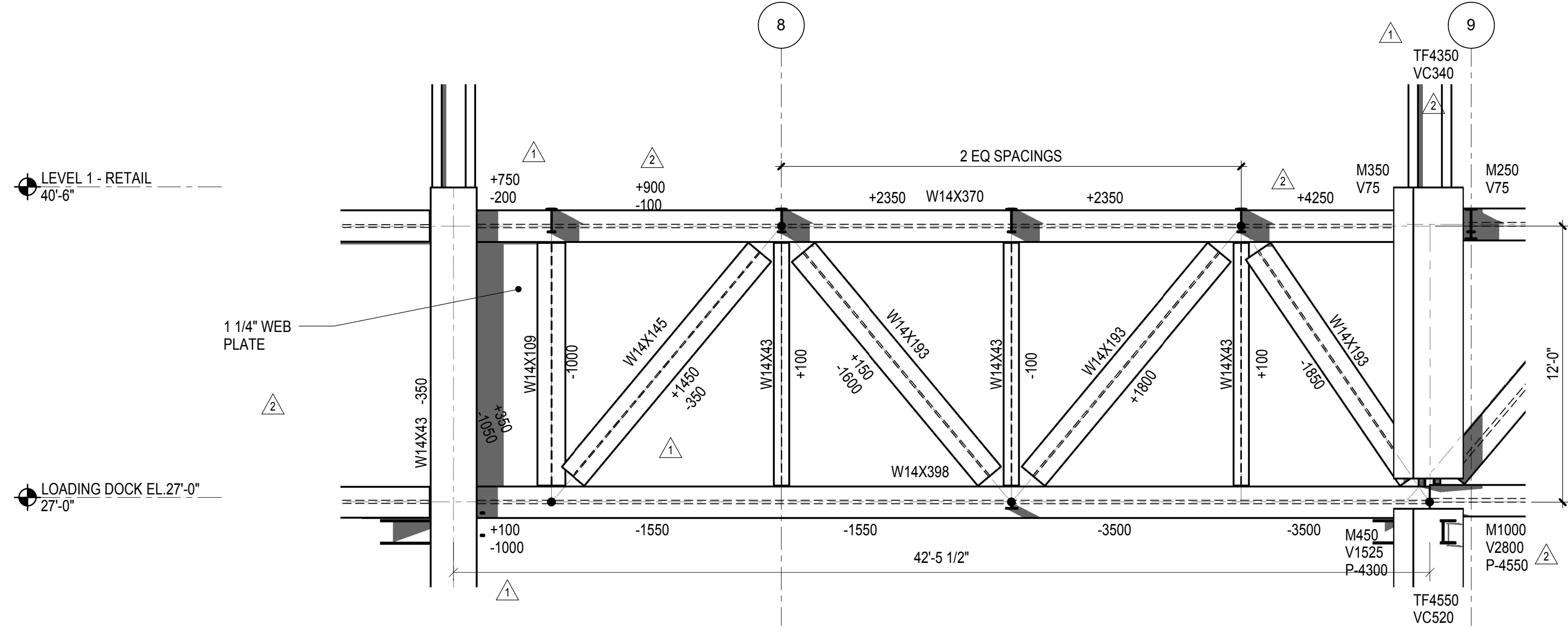
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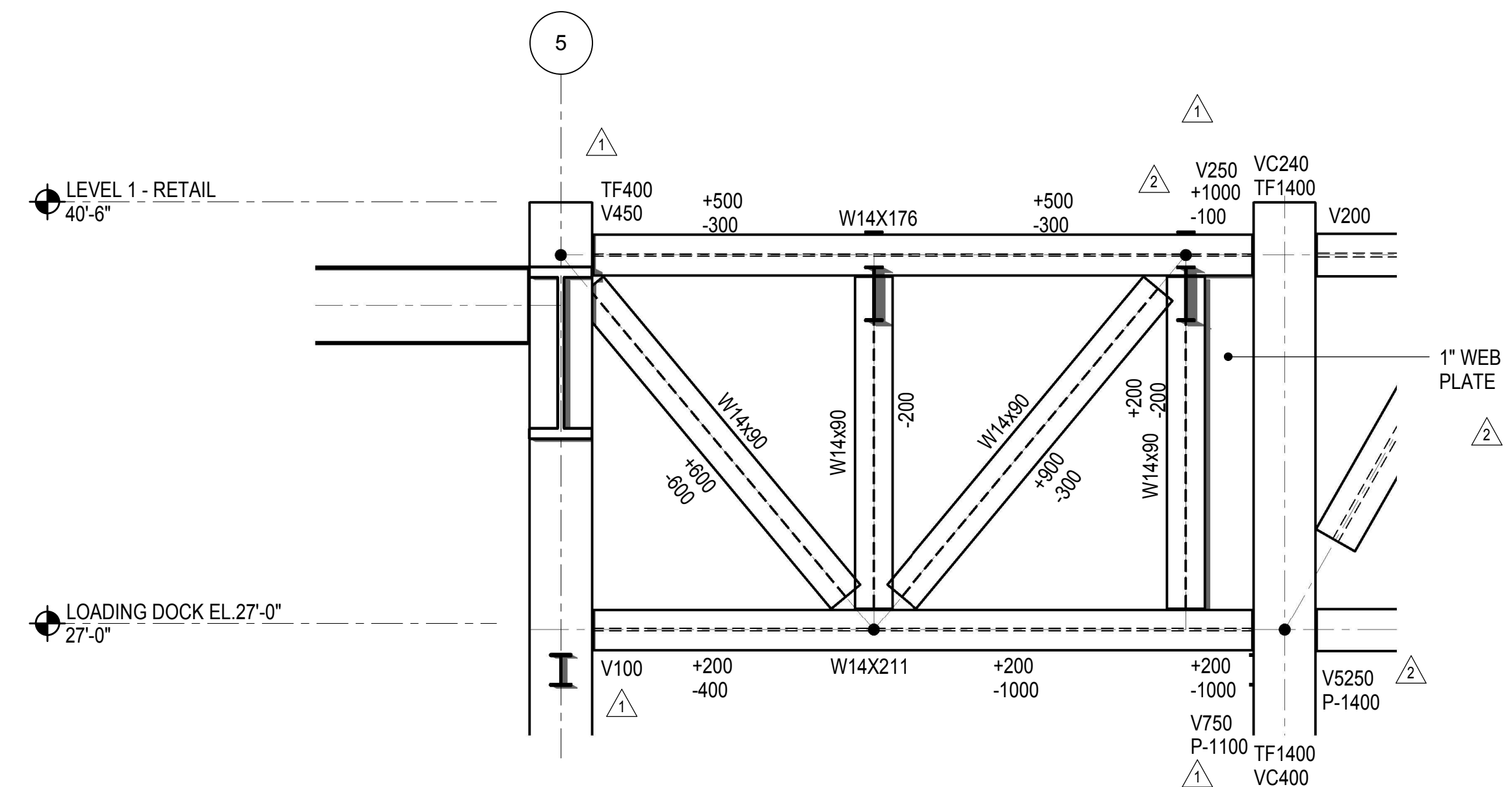
**1 TRUSS TB1 ELEVATION**  
1/4" = 1'-0"



**3 TRUSS TB3 ELEVATION**  
1/4" = 1'-0"



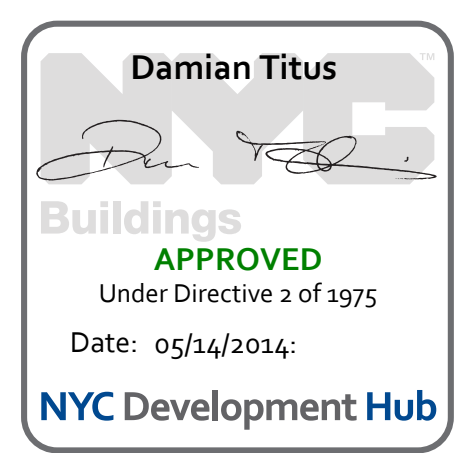
**2 TRUSS TB2 ELEVATION**  
1/4" = 1'-0"



**4 TRUSS TB4 ELEVATION**  
1/4" = 1'-0"

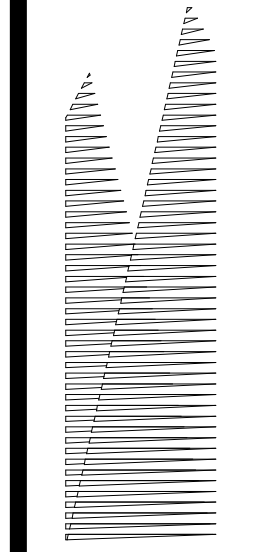
**NOTES:**  
CAMBER TOLERANCE FOR TRUSSES SHALL BE AS FOLLOWS:  
PRIOR TO INSTALLATION: 0, +1/2"  
INSTALLED, PRIOR TO INSTALLATION OF FLOORS: -1/2, +1/4"

LEGEND	
P	INDICATES AXIAL FORCE IN TRUSS CHORD
V	INDICATES SHEAR FORCE IN TRUSS CHORD
M	INDICATES MOMENT IN TRUSS CHORD
TF	INDICATES AXIAL FORCE TRANSFERRED THROUGH THE CONNECTION JOINT IN KIPS
VC	INDICATES FACTORED SHEAR IN COLUMN



S-412.00  
11/22/2013 3:11:12 PM  
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Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Owner  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
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Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

Architect  
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PC Architects & Planning Consultants  
11 West 42nd Street  
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Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

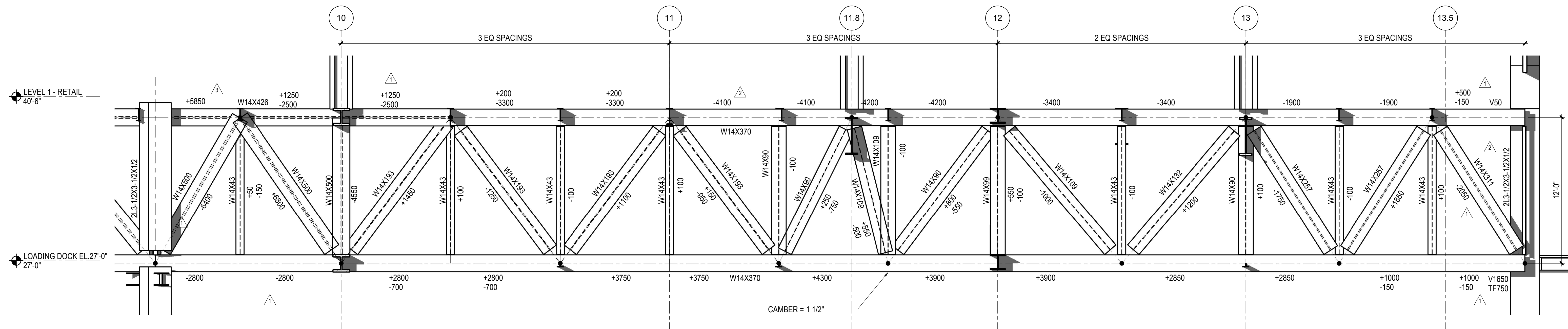
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
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LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

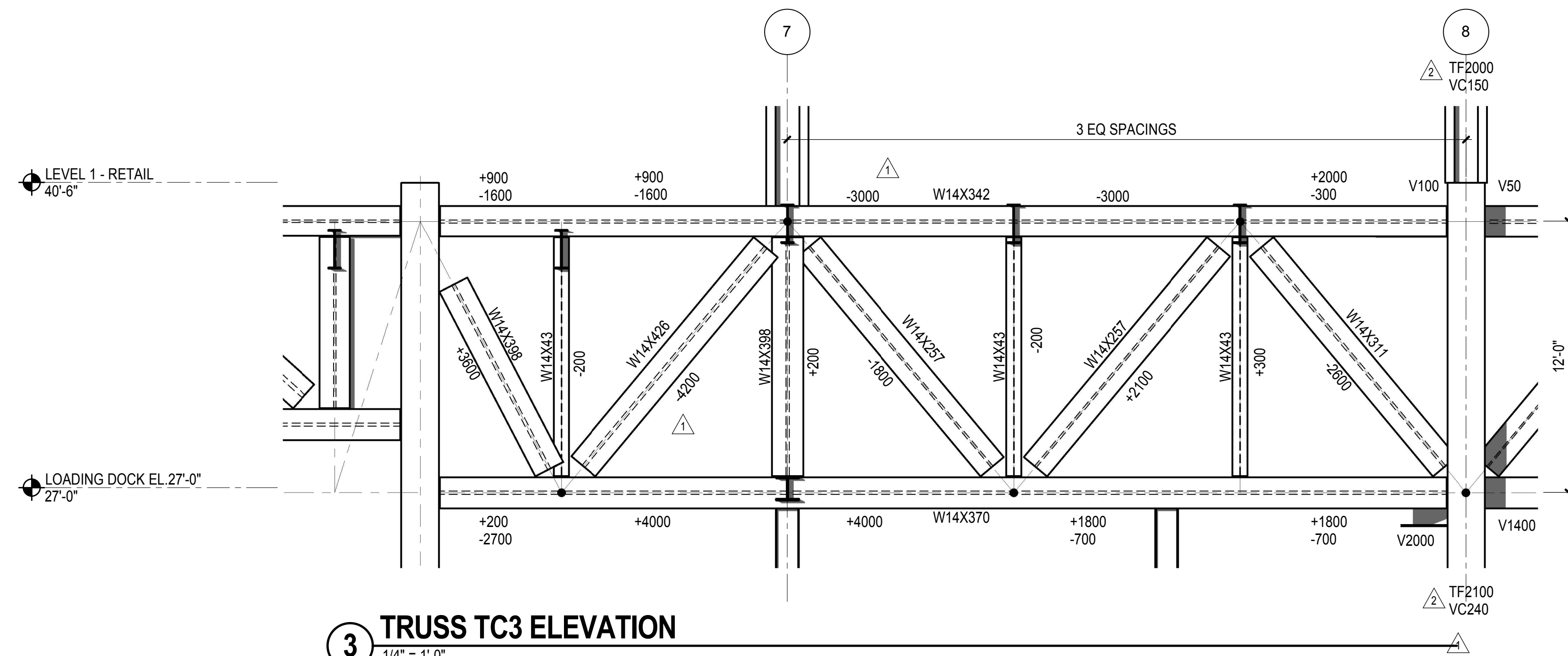
LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

NYC DOB FILING	Date
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&U PLATFORM SUBMISSION	
Δ D142 PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ D141 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 60% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE 1 FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
NYC DOB FILING	01/22/2013

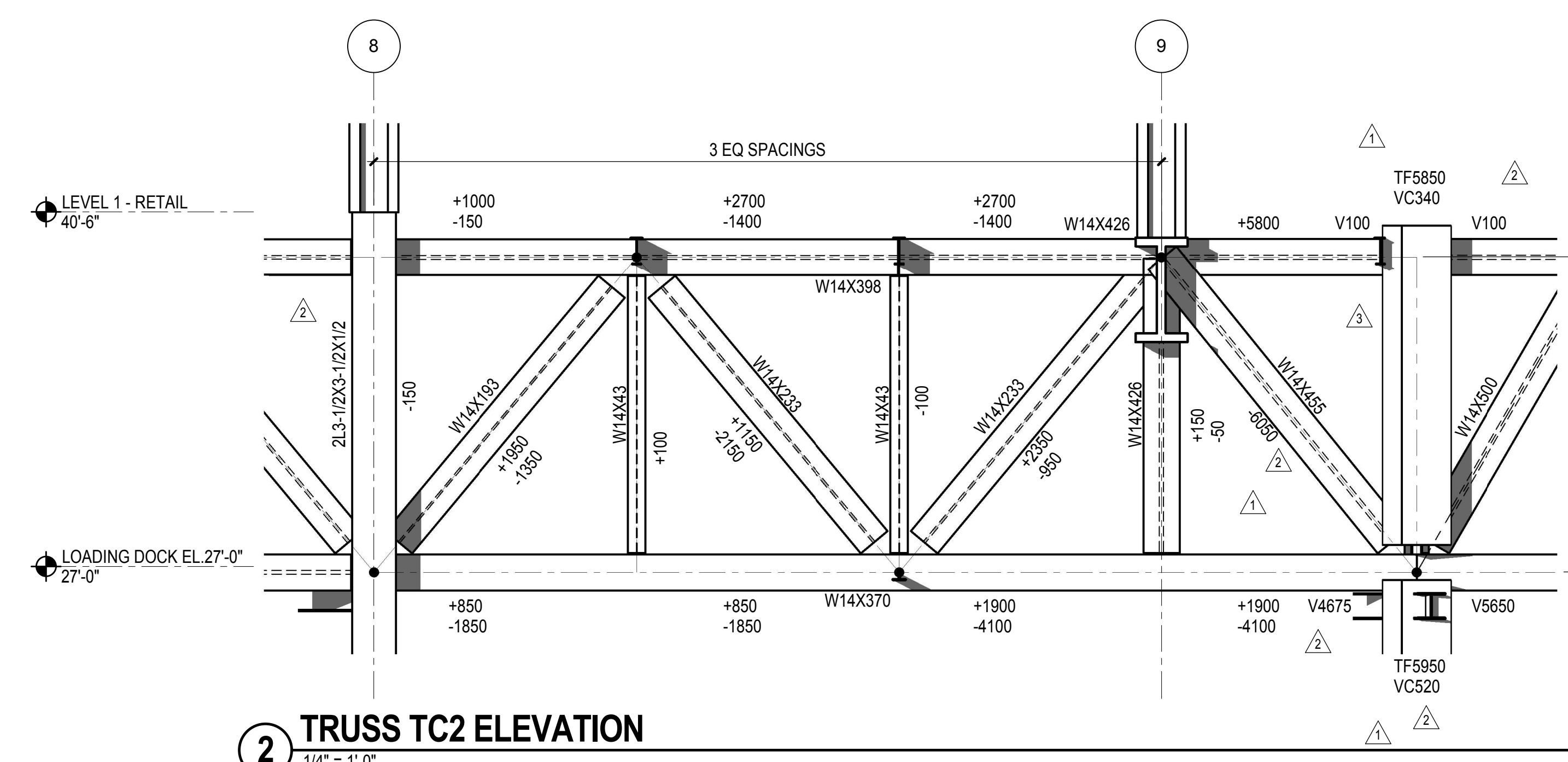
Rev. Description Date



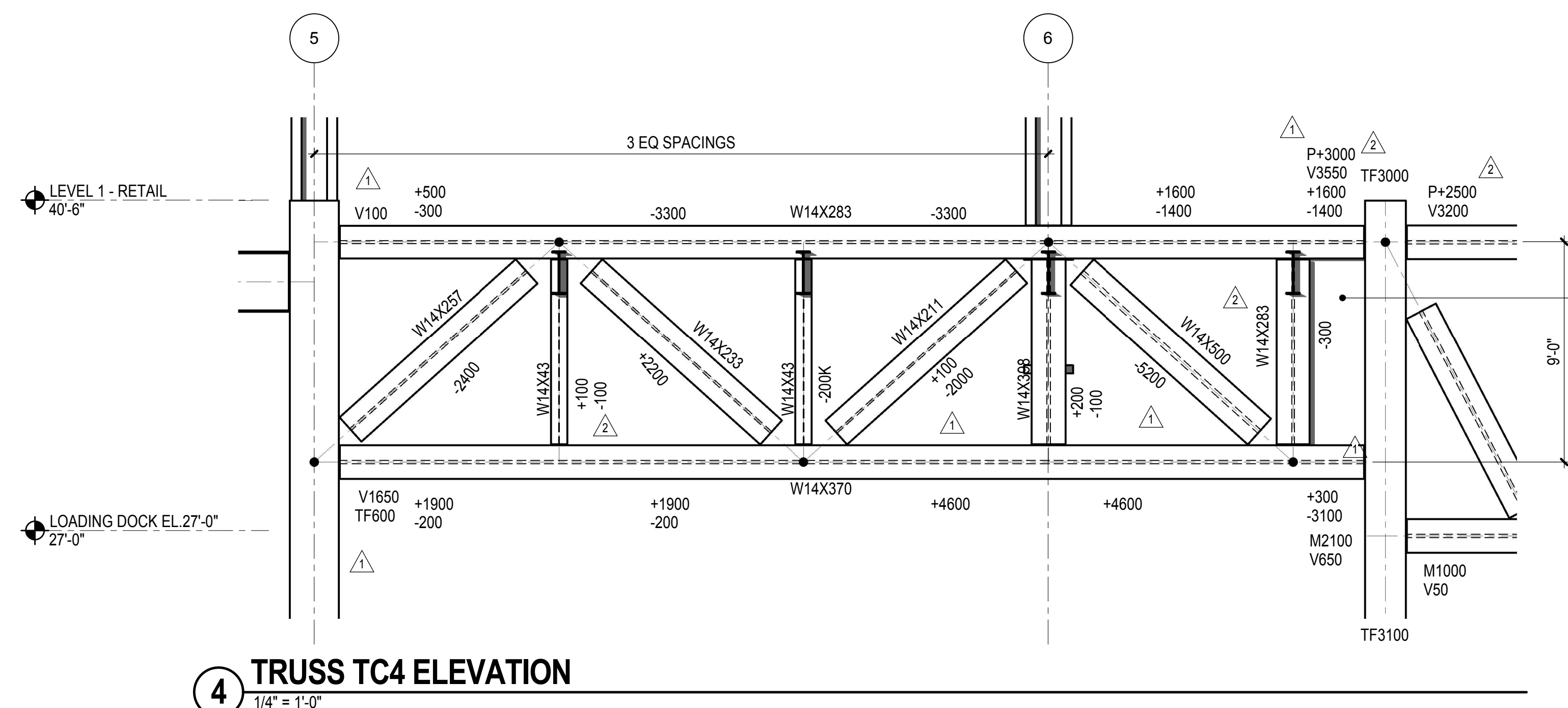
**1 TRUSS TC1 ELEVATION**  
1/4" = 1'-0"



**3 TRUSS TC3 ELEVATION**  
1/4" = 1'-0"



**2 TRUSS TC2 ELEVATION**  
1/4" = 1'-0"



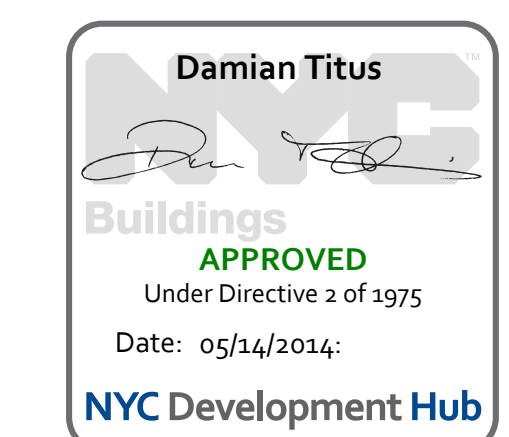
**4 TRUSS TC4 ELEVATION**  
1/4" = 1'-0"

**NOTES:**

CAMBER TOLERANCE FOR TRUSSES SHALL BE AS FOLLOWS:  
PRIOR TO INSTALLATION -0, +1/2"  
INSTALLED, PRIOR TO INSTALLATION OF FLOORS -1/4, +1/4"

**LEGEND**

P INDICATES AXIAL FORCE IN TRUSS CHORD  
V INDICATES SHEAR FORCE IN TRUSS CHORD  
M INDICATES MOMENT IN TRUSS CHORD  
TF INDICATES AXIAL FORCE TRANSFERRED THROUGH THE CONNECTION JOINT IN KIPS  
VC INDICATES FACTORED SHEAR IN COLUMN

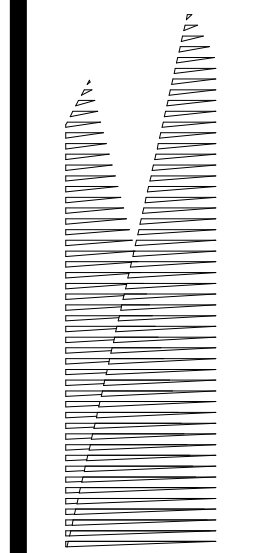


Date: 02/15/2013  
Project No: N11330.00  
Author: [Signature]  
Title: [Signature]  
**HYE - PL - S-413.00**  
Drawing Title:  
**EAST PLATFORM TRUSS ELEVATIONS AT GRID C**









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60 Columbus Circle  
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Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

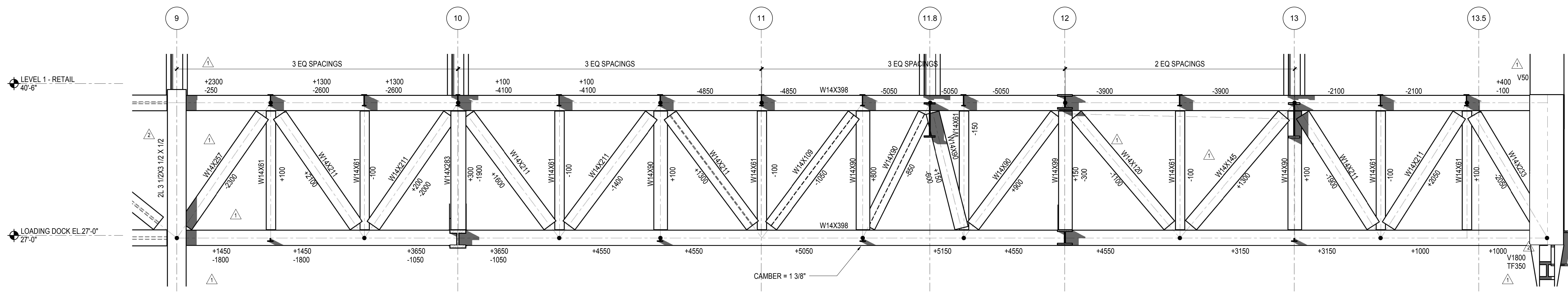
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
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Structural Engineer  
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New York, NY 10017  
Tel: 917.661.7800 Fax: 718.661.7801

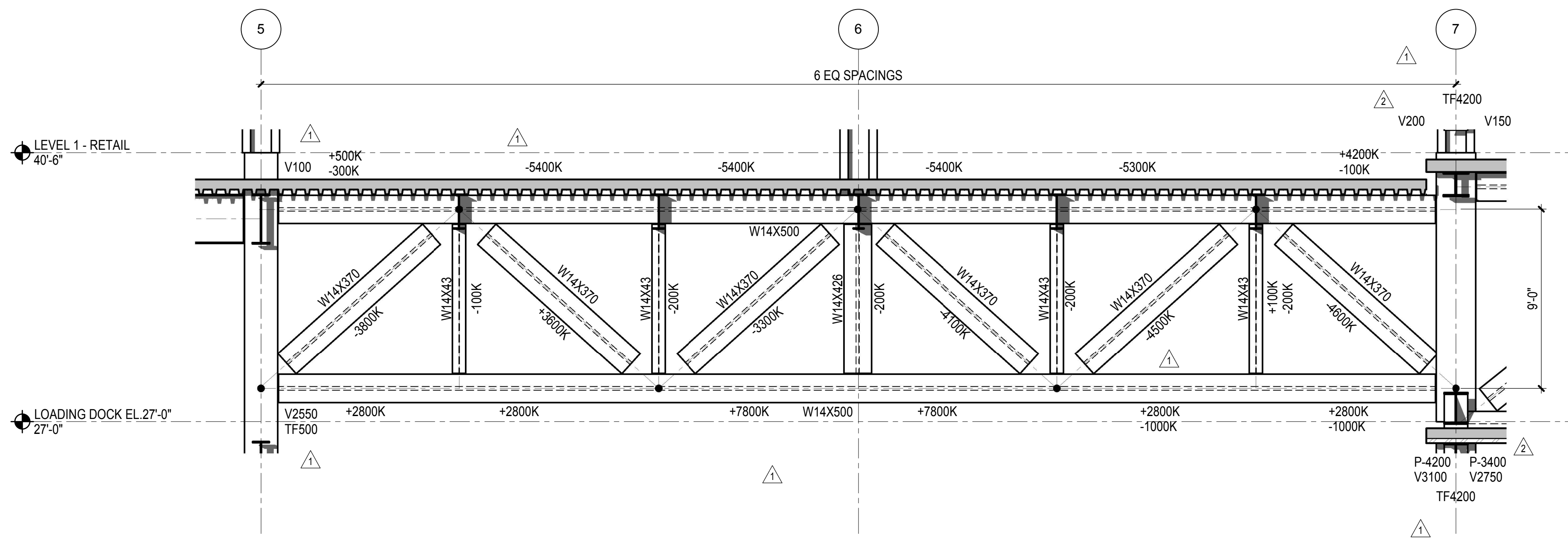
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Panos Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

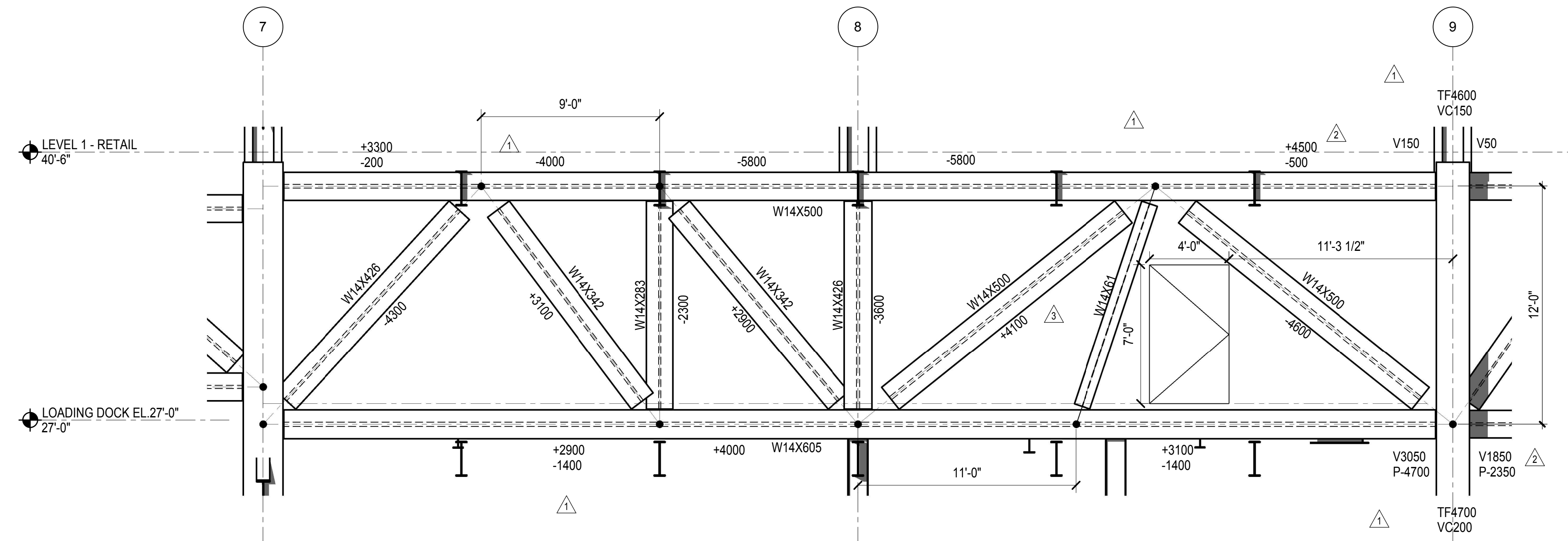
LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



**1 TRUSS TE1 ELEVATION**  
1/4" = 1'-0"



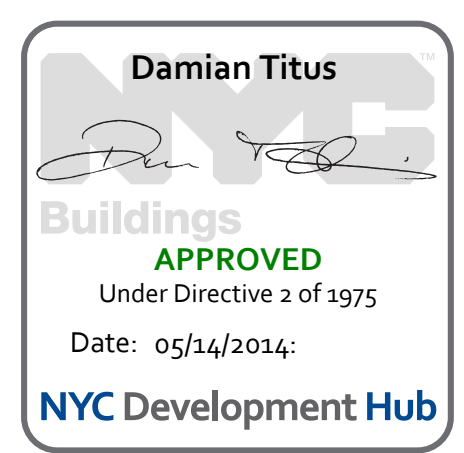
**3 TRUSS TE3**  
1/4" = 1'-0"



**2 TRUSS TE2 ELEVATION**  
1/4" = 1'-0"

**NOTES:**  
CAMBER TOLERANCE FOR TRUSSES SHALL BE AS FOLLOWS:  
PRIOR TO INSTALLATION -0, +1/2"  
INSTALLED, PRIOR TO INSTALLATION OF FLOORS -1/2, +1/4"

LEGEND	
P	INDICATES AXIAL FORCE IN TRUSS CHORD
V	INDICATES SHEAR FORCE IN TRUSS CHORD
M	INDICATES MOMENT IN TRUSS CHORD
TF	INDICATES AXIAL FORCE TRANSFERRED THROUGH THE CONNECTION JOINT IN KIPS
VC	INDICATES FACTORED SHEAR IN COLUMN



NYC DOB FILING	Date
L.I.R.R. - PRE-FINAL 100%	12/4/2013
M&T - PLATFORM SUBMISSION	11/22/2013
DEL-2 PHASE 1 STRUCTURAL UPDATE	1/1/2013
NYC DOB FILING	10/4/2013
DEL-2 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE 1 FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013

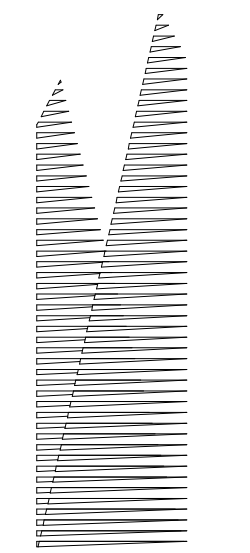
Date: 02/15/2013  
Project No: N11330.00  
Drawn By: N11330.00  
Sheet Number: Author

**HYE - PL - S-415.00**  
Drawing Title  
**EAST PLATFORM TRUSS ELEVATIONS AT GRID E**

Drawing Number / B/S/C/N Drawing Number  
**S-415.00**

SHEET 124 OF 201





Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Owned Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

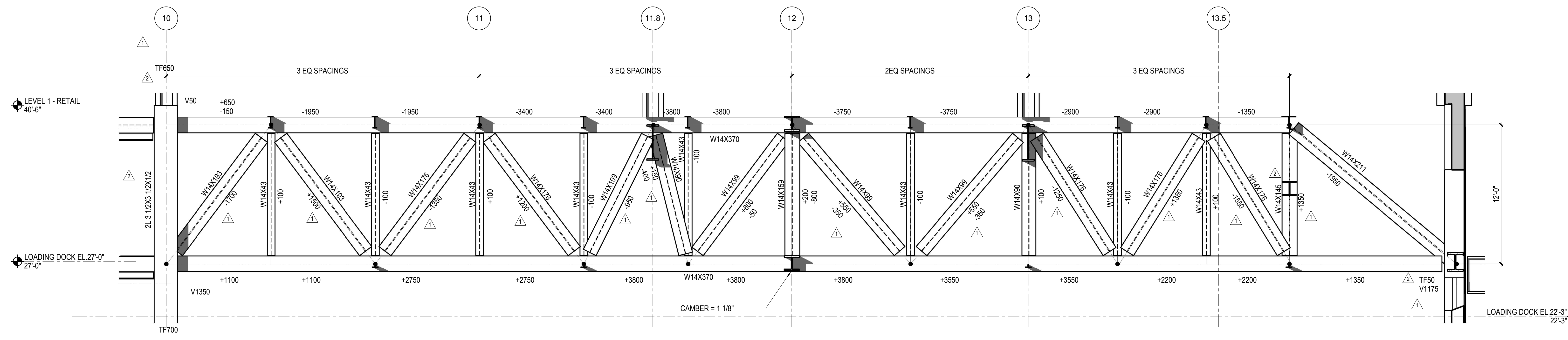
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

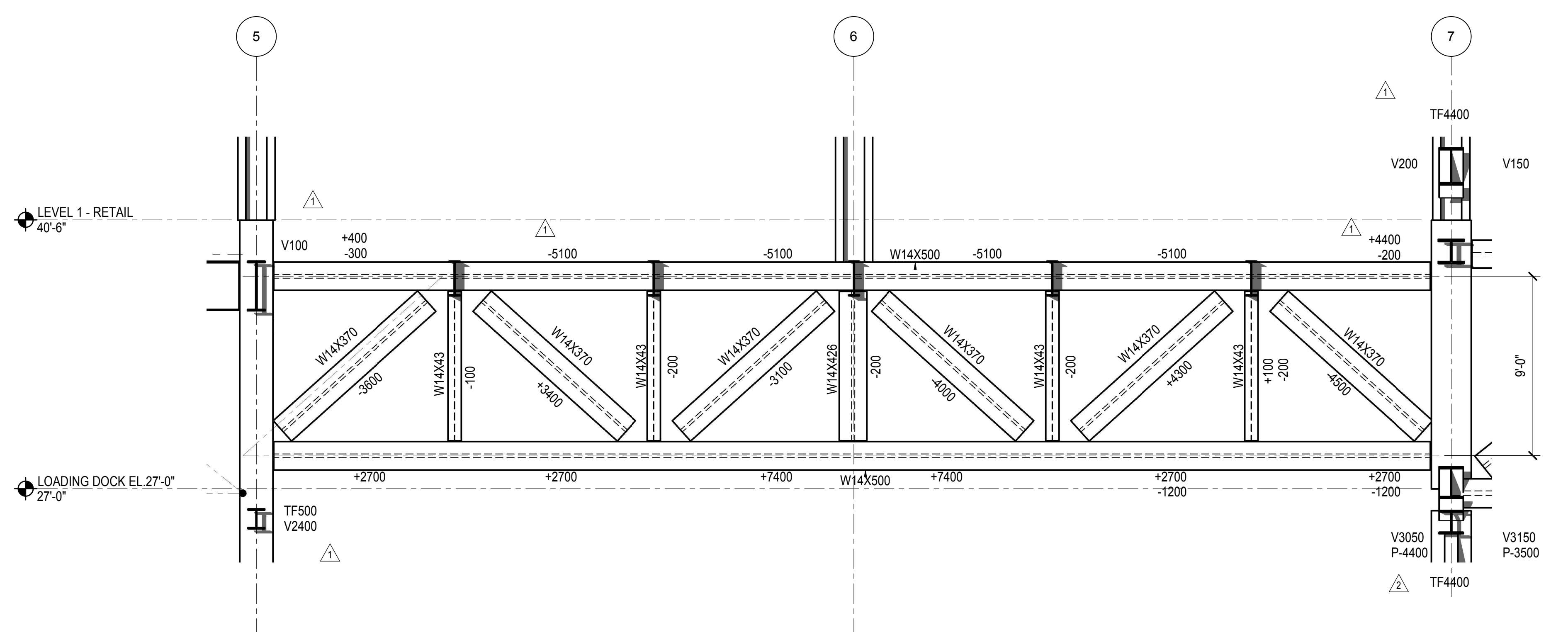
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

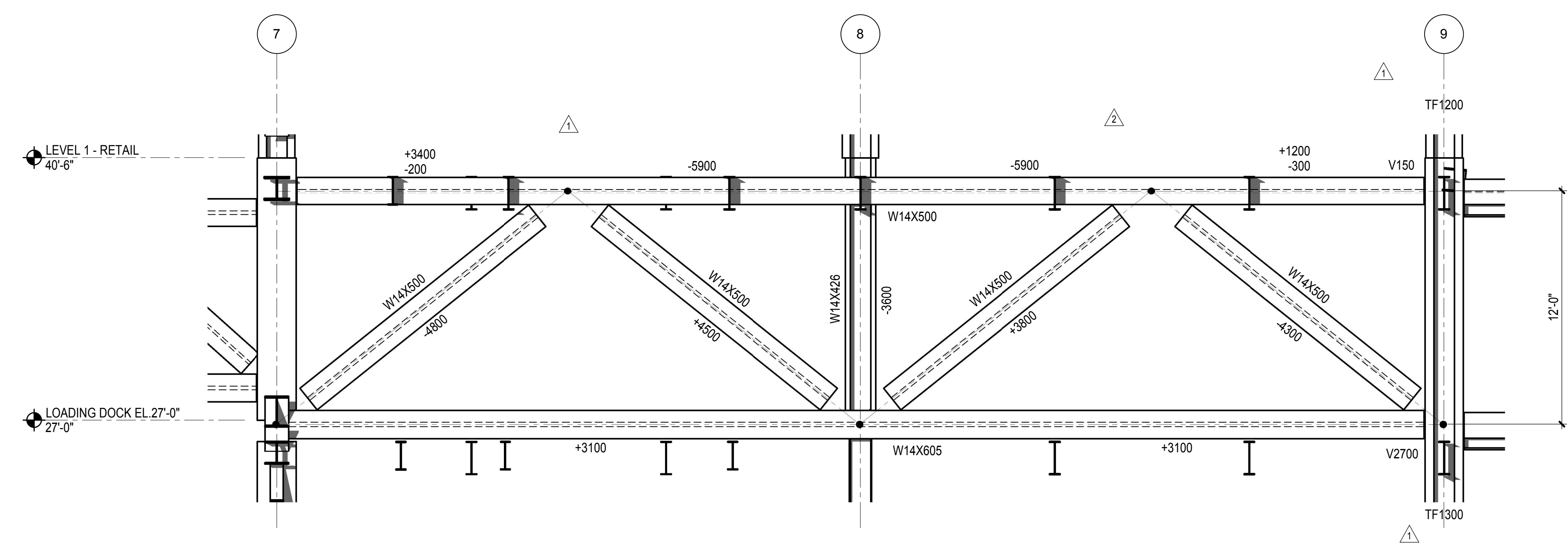
LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



**1 TRUSS TF1 ELEVATION**  
1/4" = 1'-0"



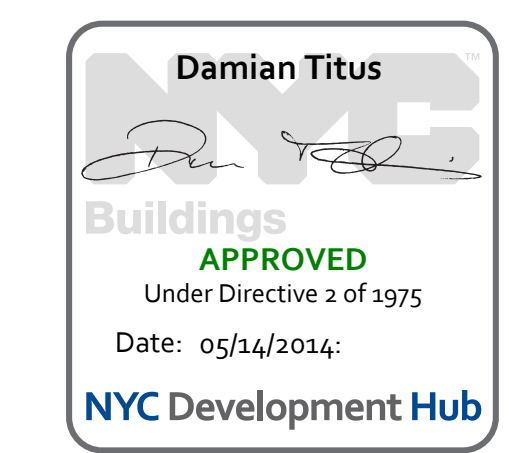
**3 TRUSS TF3 ELEVATION**  
1/4" = 1'-0"



**2 TRUSS TF2 ELEVATION**  
1/4" = 1'-0"

NOTES:  
CAMBER TOLERANCE FOR TRUSSES SHALL BE AS FOLLOWS:  
PRIOR TO INSTALLATION -0, +1/2"  
INSTALLED, PRIOR TO INSTALLATION OF FLOORS -1/4, +1/2"

LEGEND	
P	INDICATES AXIAL FORCE IN TRUSS CHORD
V	INDICATES SHEAR FORCE IN TRUSS CHORD
M	INDICATES MOMENT IN TRUSS CHORD
TF	INDICATES AXIAL FORCE TRANSFERRED THROUGH THE CONNECTION JOINT IN KIPS
VC	INDICATES FACTORED SHEAR IN COLUMN



NYC DOB FILING	DATE
L.I.R.R. - PRE-FINAL 100%	12/4/2013
M&T - PLATFORM SUBMISSION	11/22/2013
DELPHI PHASE I STRUCTURAL UPDATE	1/11/2013
NYC DOB FILING	10/4/2013
DELPHI PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013

See Plan

Date: 08/04/13  
Project No: N11330.00  
Author: Author

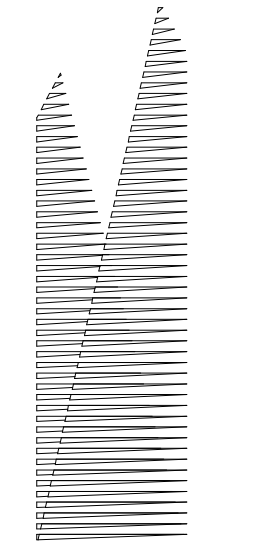
**HYE - PL - S-416.00**  
Drawing Title  
**EAST PLATFORM TRUSS ELEVATIONS AT GRID F**

Drawing Number / Revision Drawing Number  
**S-416.00**  
SHEET 125 OF 201









Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Officed Properties Group  
620 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

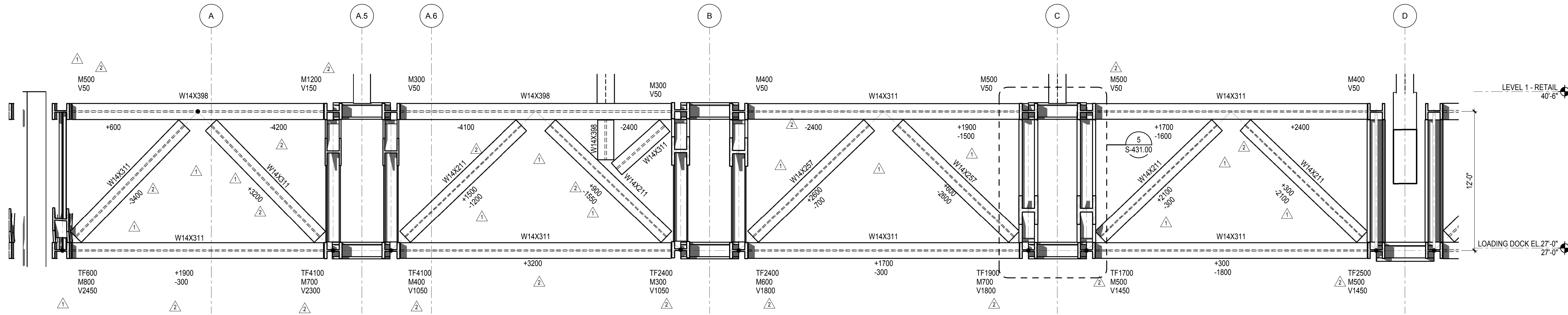
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

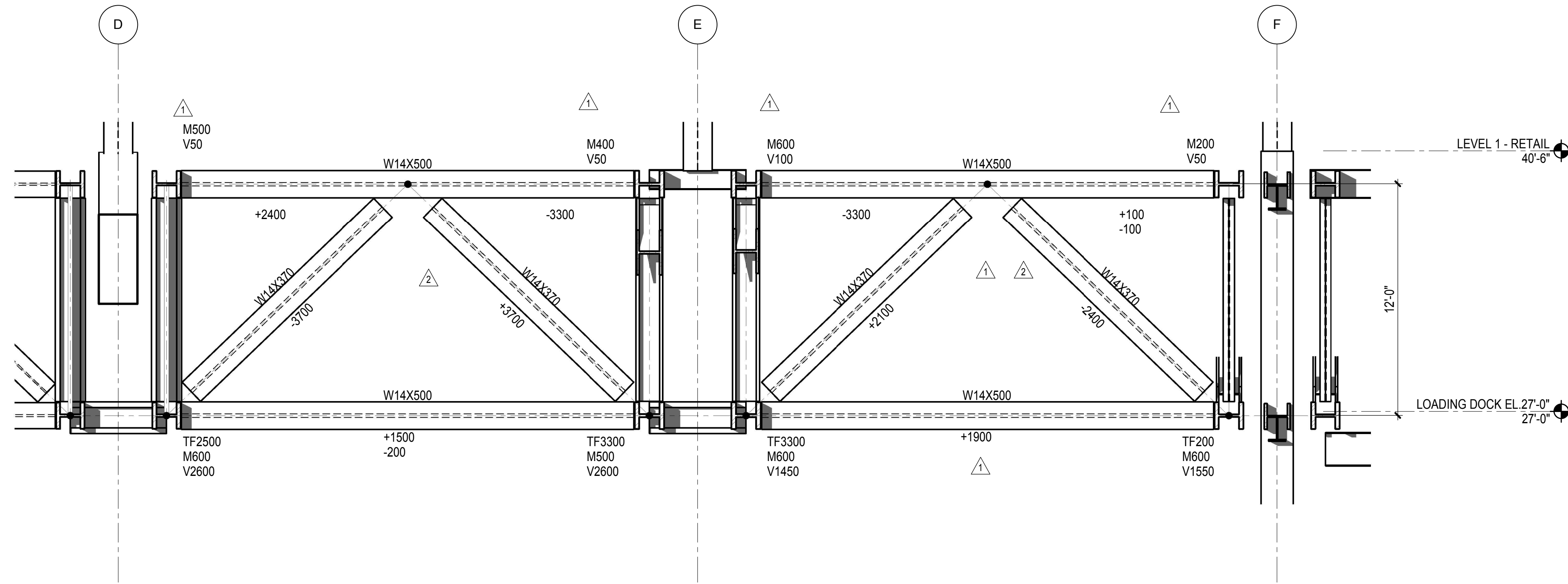
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



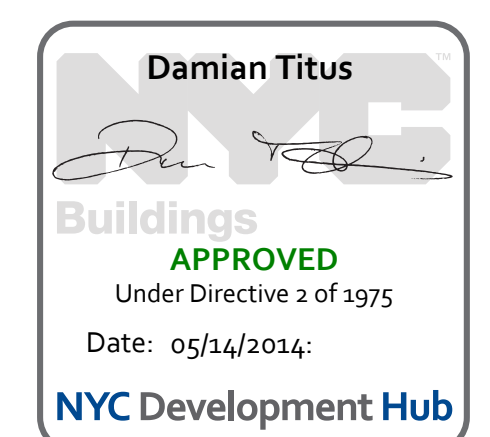
**1 TRUSS T10A ELEVATION**  
1/4" = 1'-0"



**3 TRUSS T10A ELEVATION - CONTINUED**  
1/4" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DL42 PHASE 1 STRUCTURAL UPDATE	1/1/2013
NYC DOB FILING	10/4/2013
Δ - DL42 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE 1 FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
NYC DOB FILING	1/1/2013

Rev. Plot



Date: 02/15/2013

Project No: N11330.00

Drawn By: Author

Sheet Number:

**HYE - PL - S-418.00**

Drawing Title:

**EAST PLATFORM**

**TRUSS ELEVATIONS AT**

**GRID 10**

Drawing Number / B/S/C/N Drawing Number

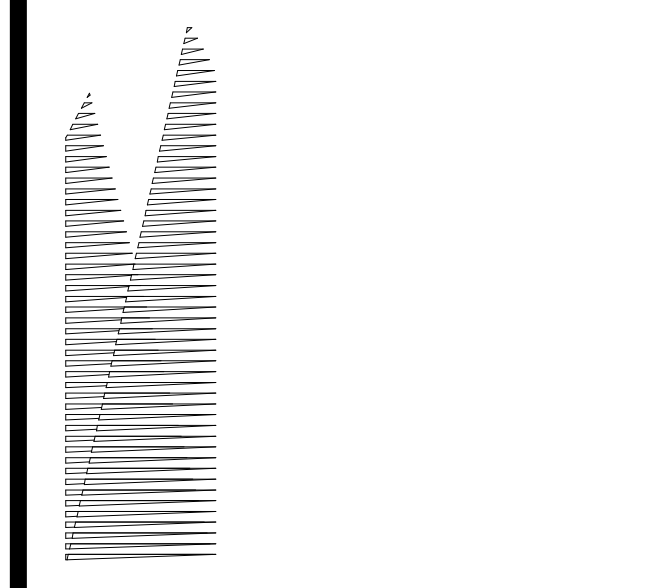
**S-418.00**

SHEET 127 OF 201









Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Offical Properties Group  
520 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

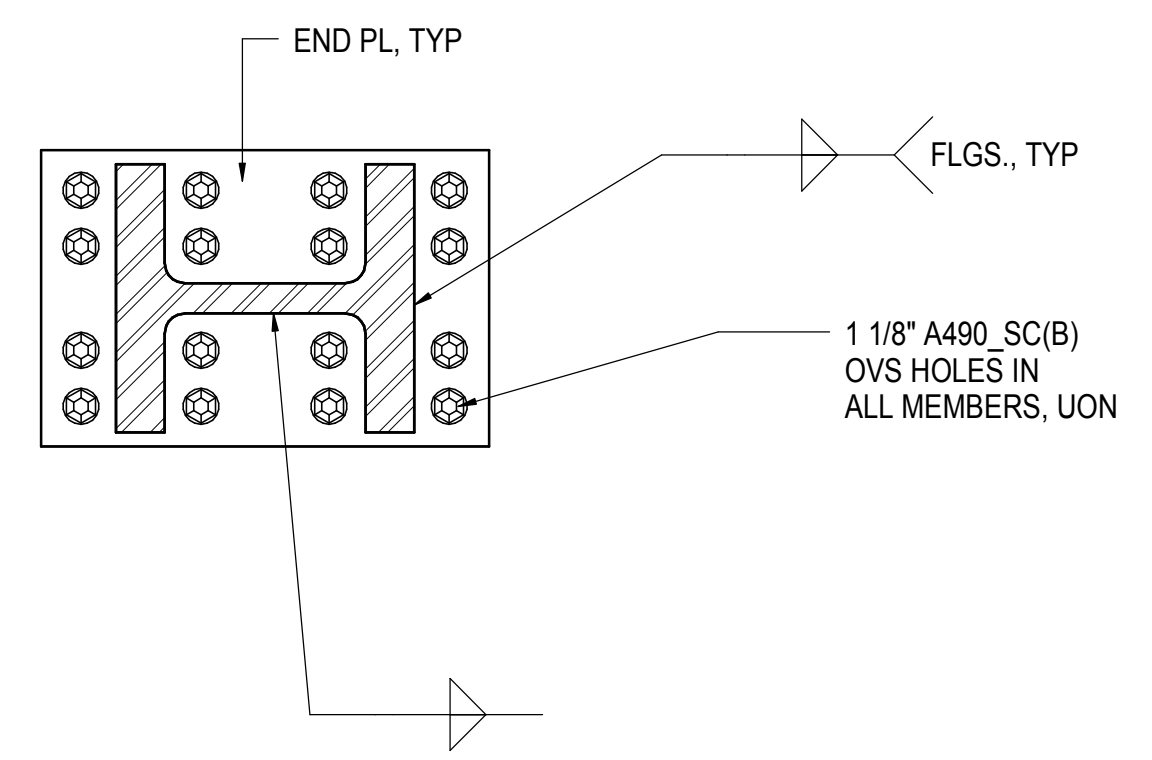
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

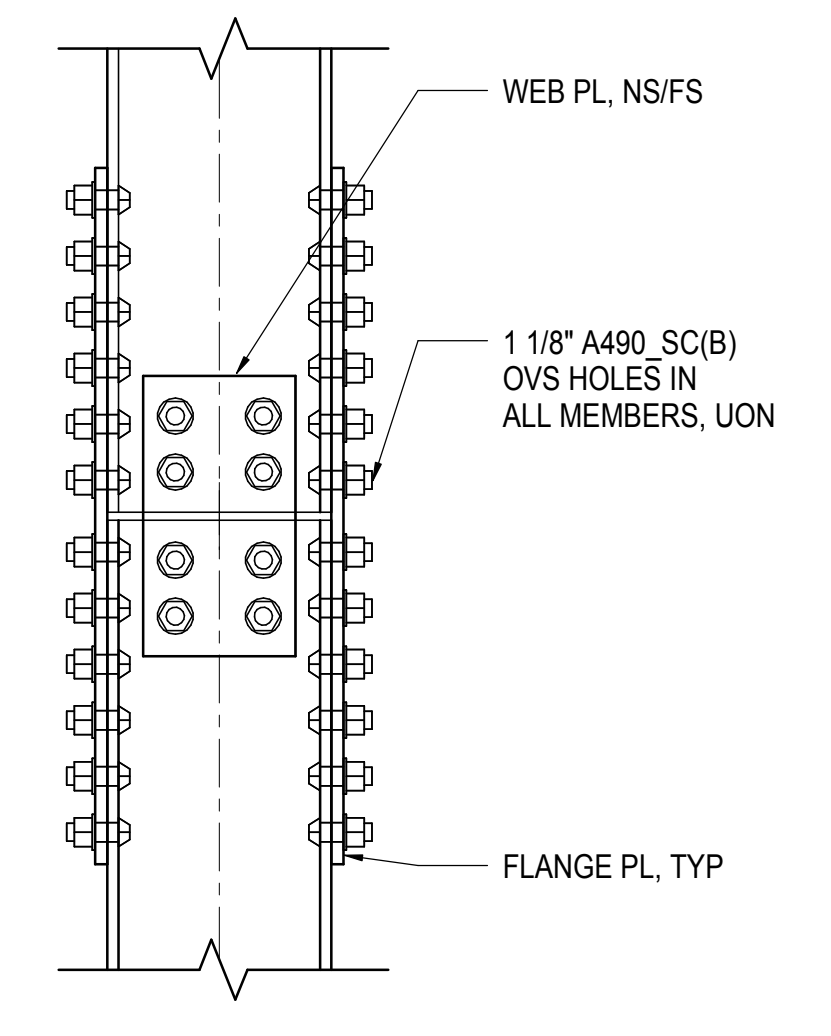
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

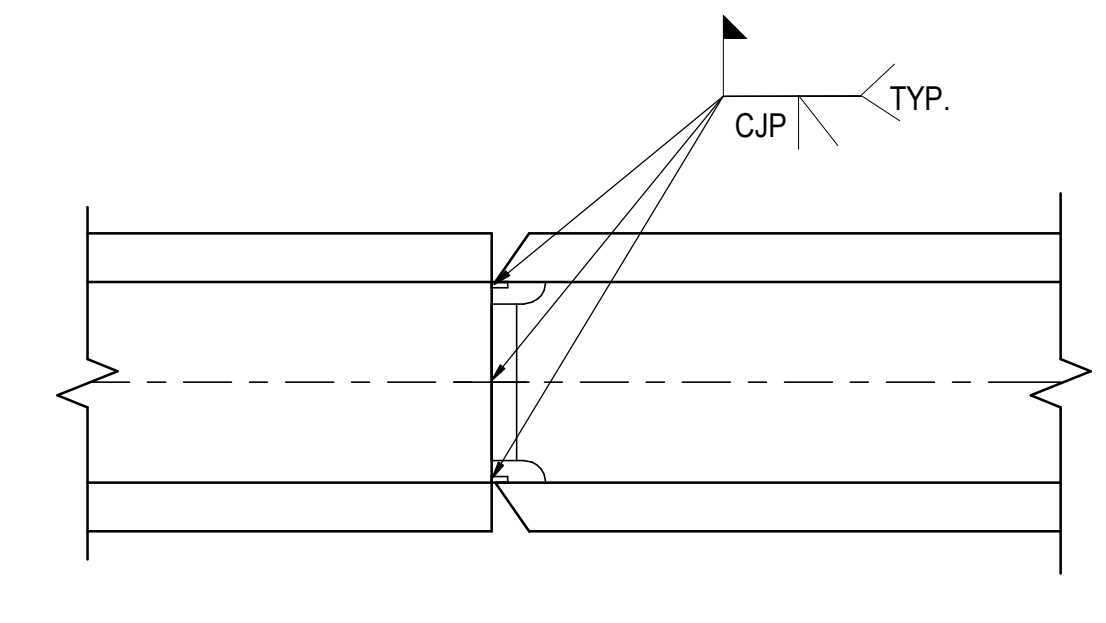
LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



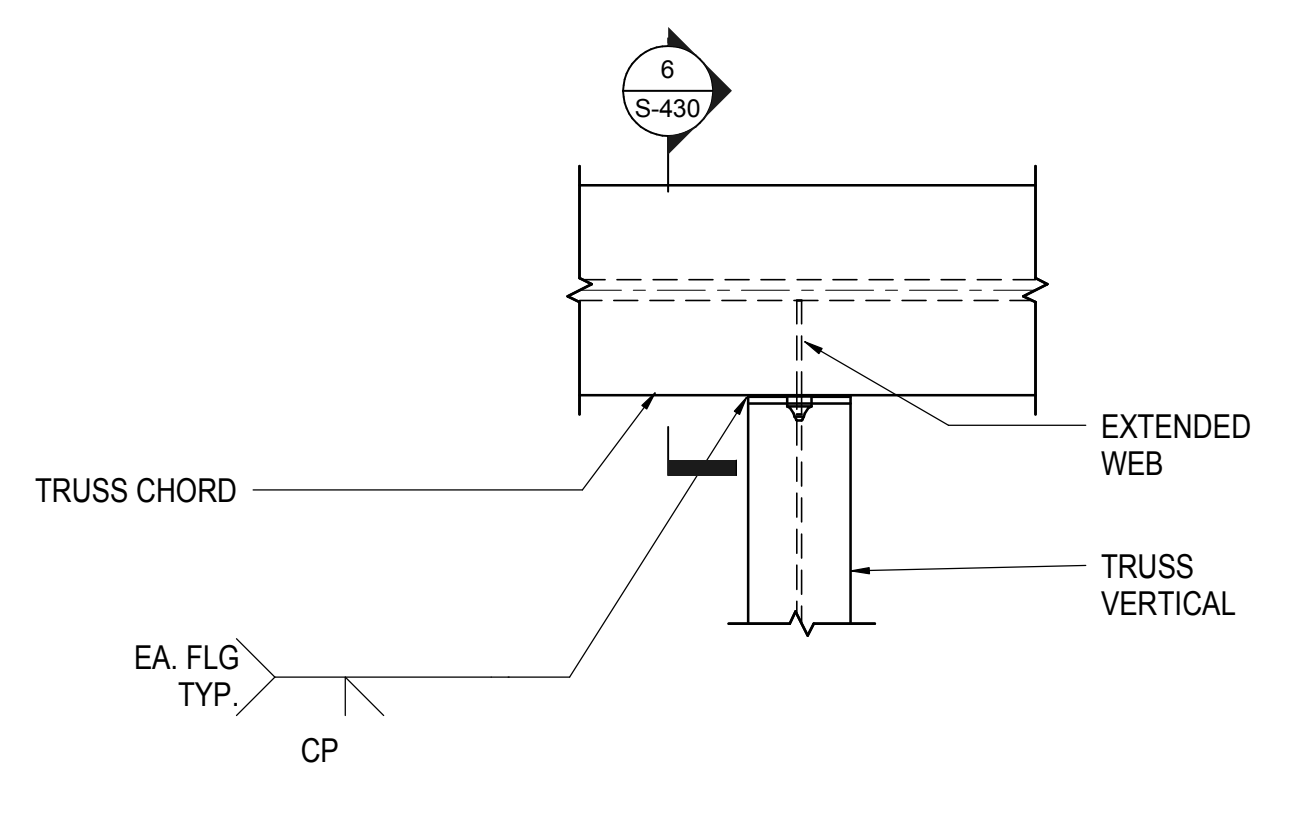
**1 TYPICAL TOP CHORD TRUSS COMPRESSION ONLY SPLICE**  
1" = 1'-0"



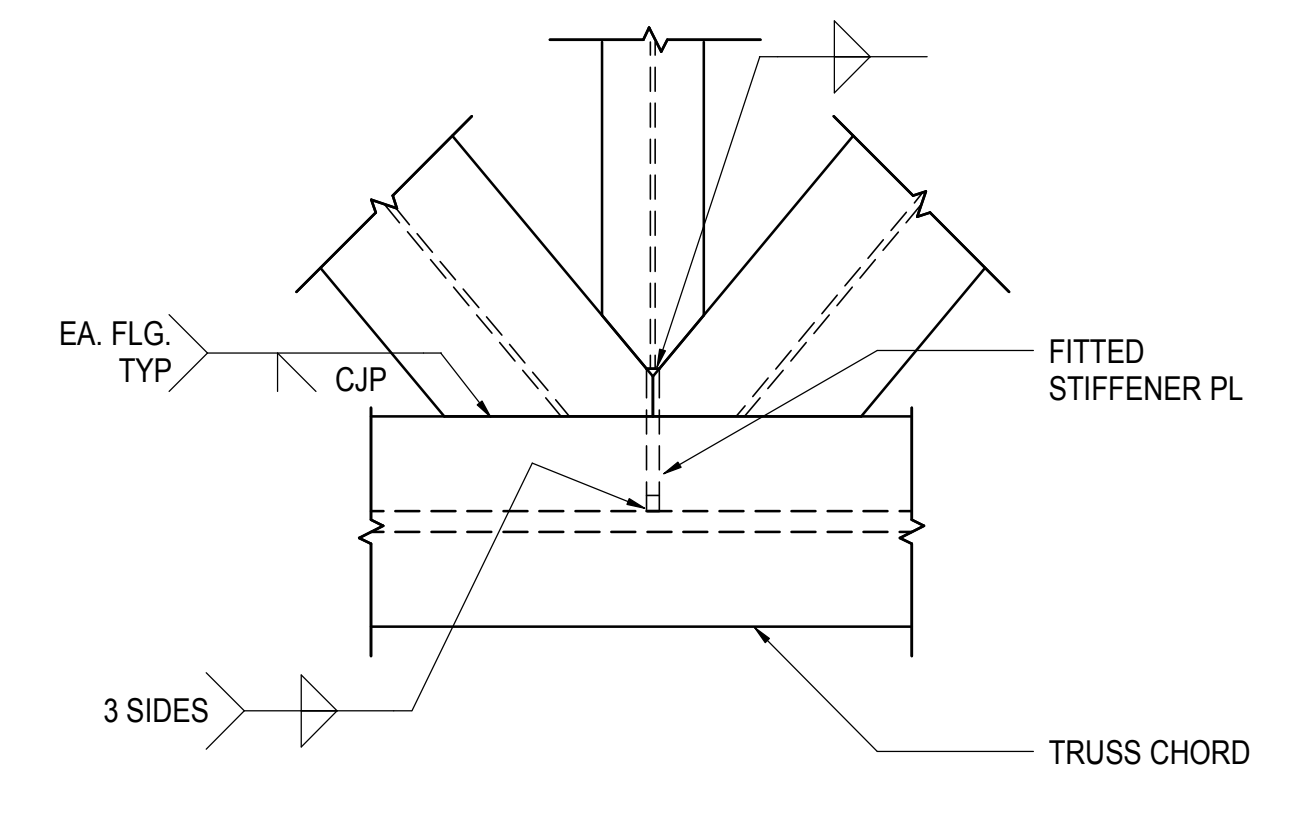
**2 TYPICAL TRUSS DIAGONAL SPLICE**  
1" = 1'-0"



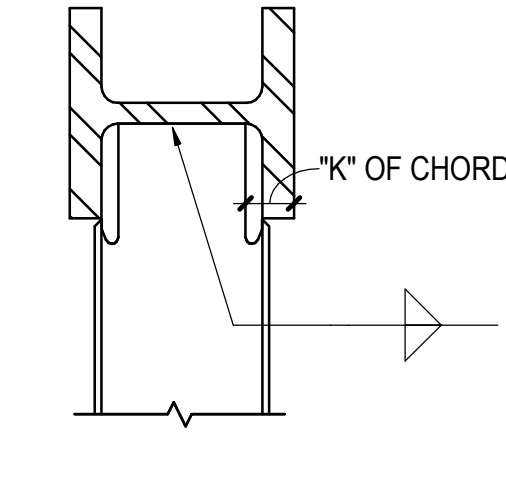
**3 TYPICAL TRUSS BOTTOM CHORD TENSION SPLICE**  
1" = 1'-0"



**4 TYPICAL WELDED TRUSS NODE**  
1" = 1'-0"



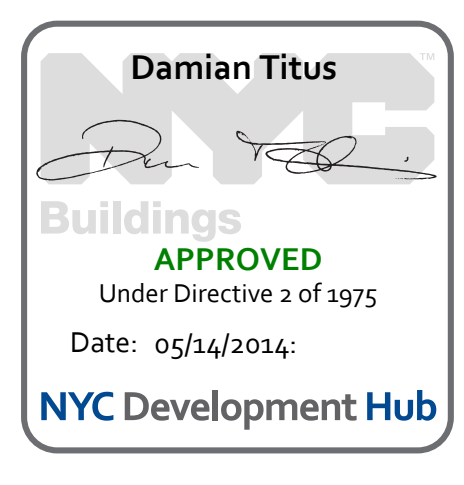
**5 TYPICAL WELDED TRUSS NODE**  
1" = 1'-0"



**6 SECTION TYPICAL WELDED TRUSS NODE**  
1" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DL42 PHASE 1 STRUCTURAL UPDATE	1/1/2013
NYC DOB FILING	10/4/2013
Δ - DL42 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE 1 FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev Plot

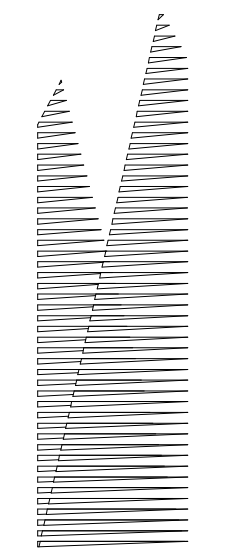


Date: 02/15/2013  
Project No: N11330.00  
Drawn By: Author  
Sheet Number:

**HYE -PL -S-430.00**  
Drawing Title  
**TRUSS SUPPORT COLUMN AT GRID 13.5**

Drawing Number / B/S/C/S/N Drawing Number  
**S-430.00**





Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

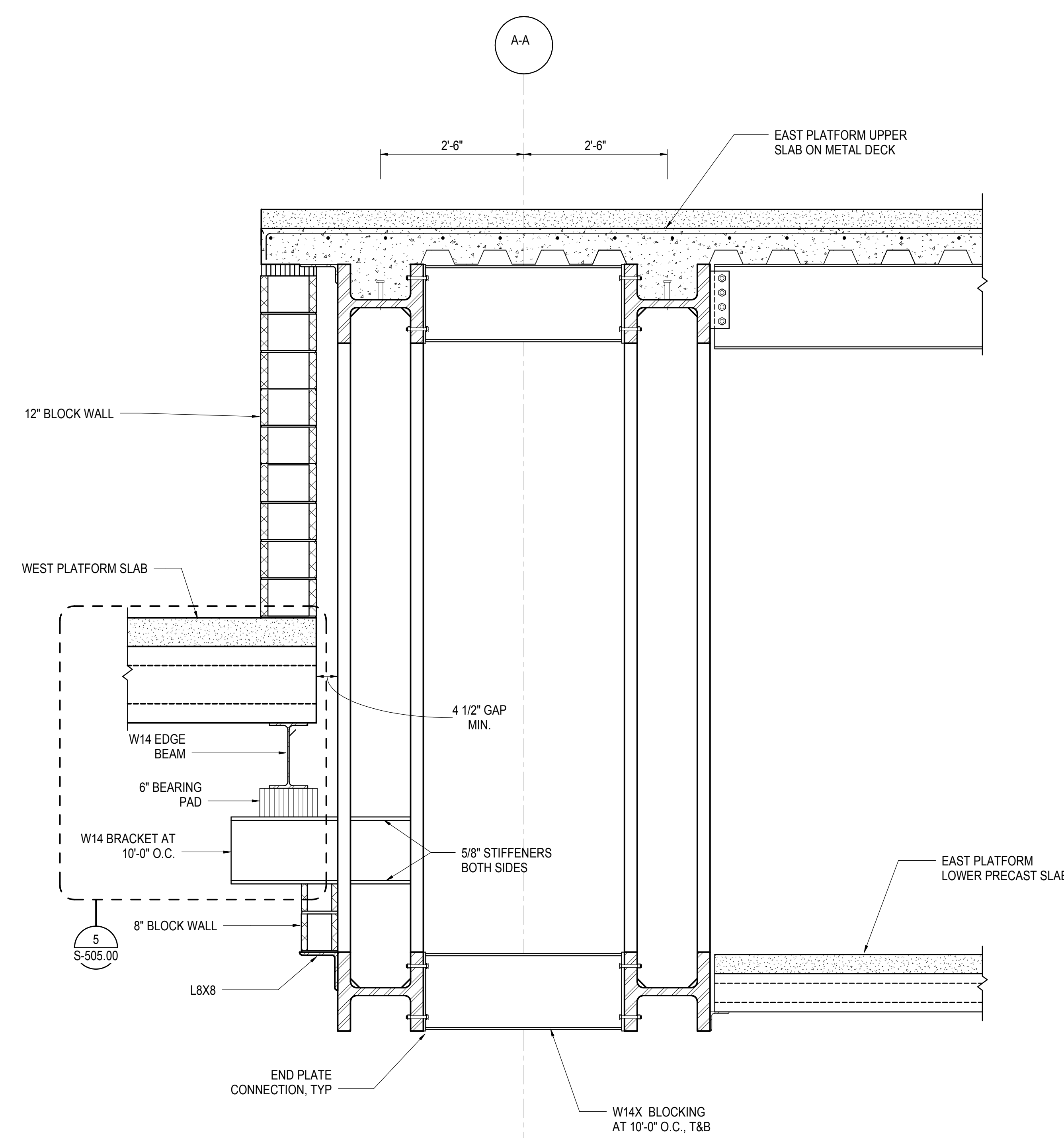
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

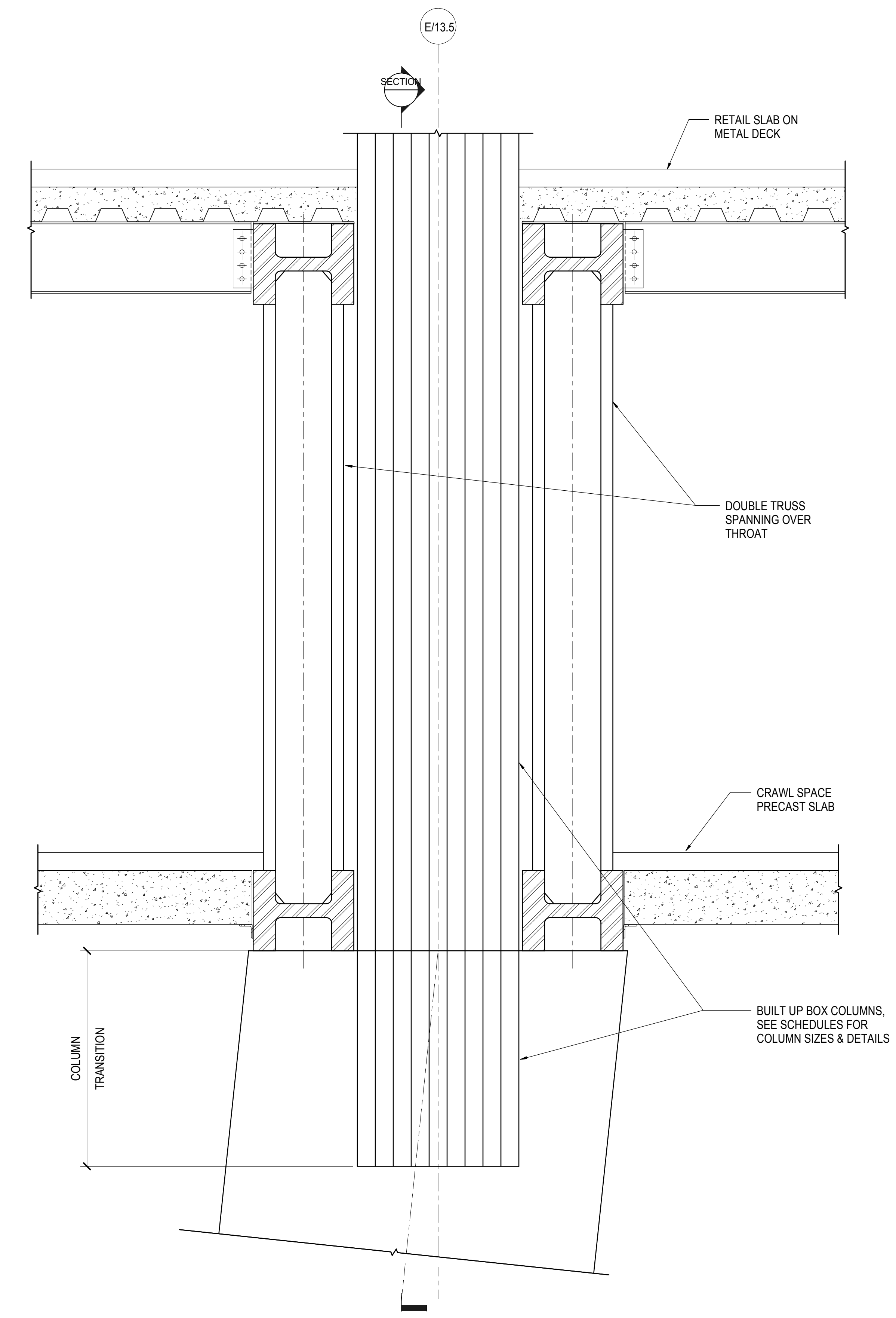
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Factors Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

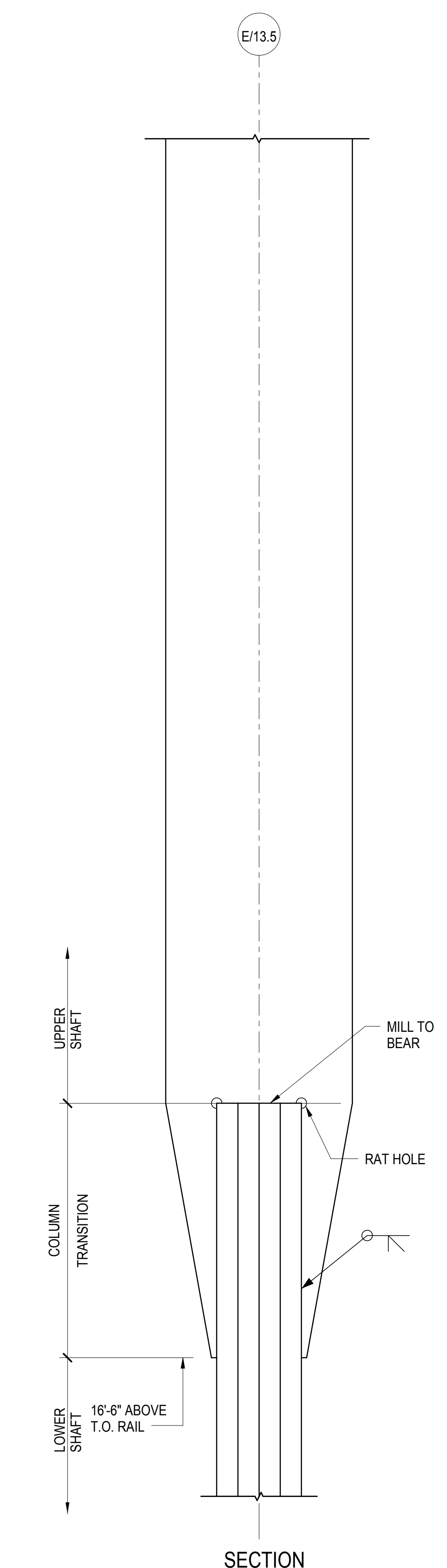
LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



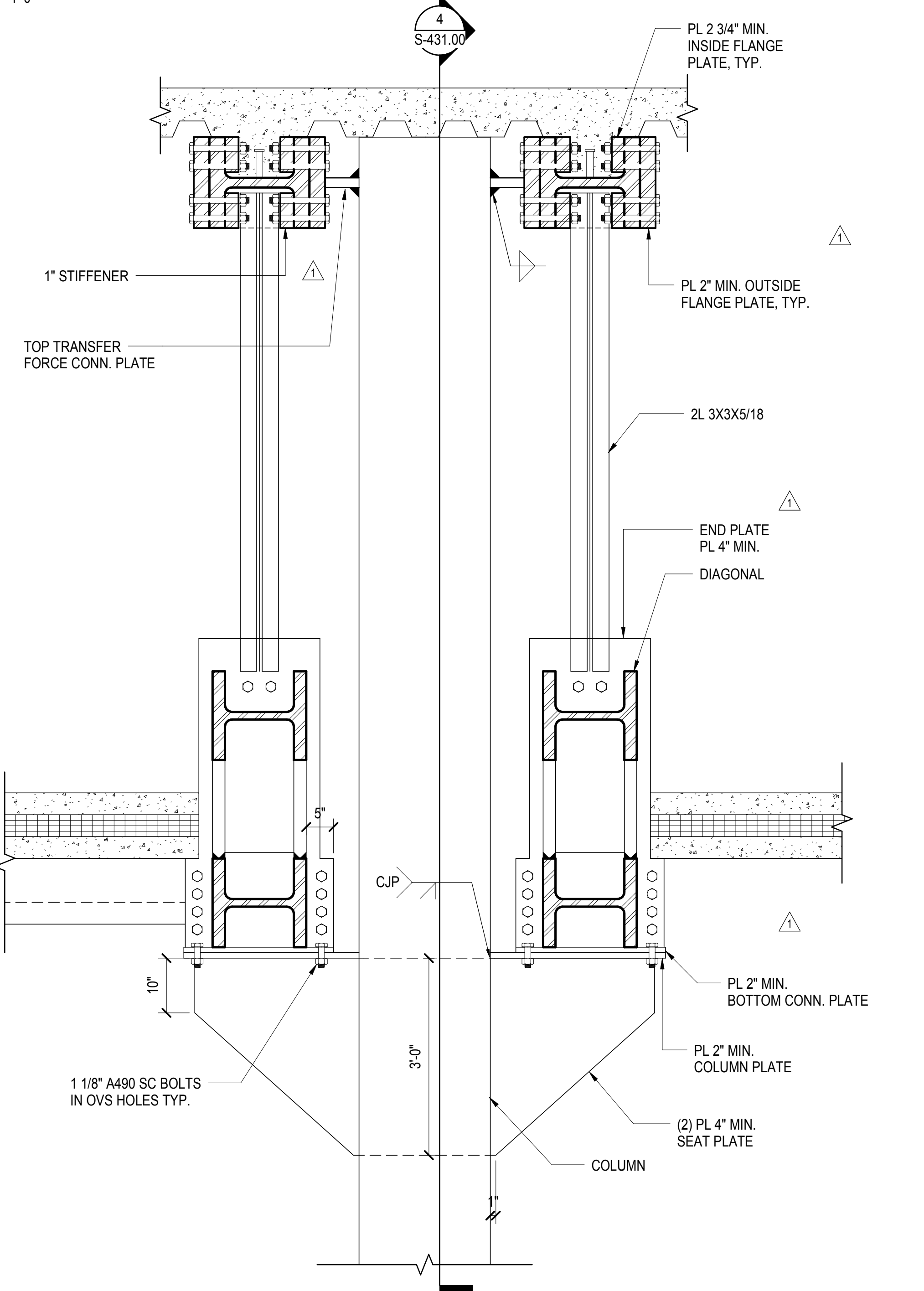
**1 DOUBLE TRUSS A-A**  
3/4" = 1'-0"



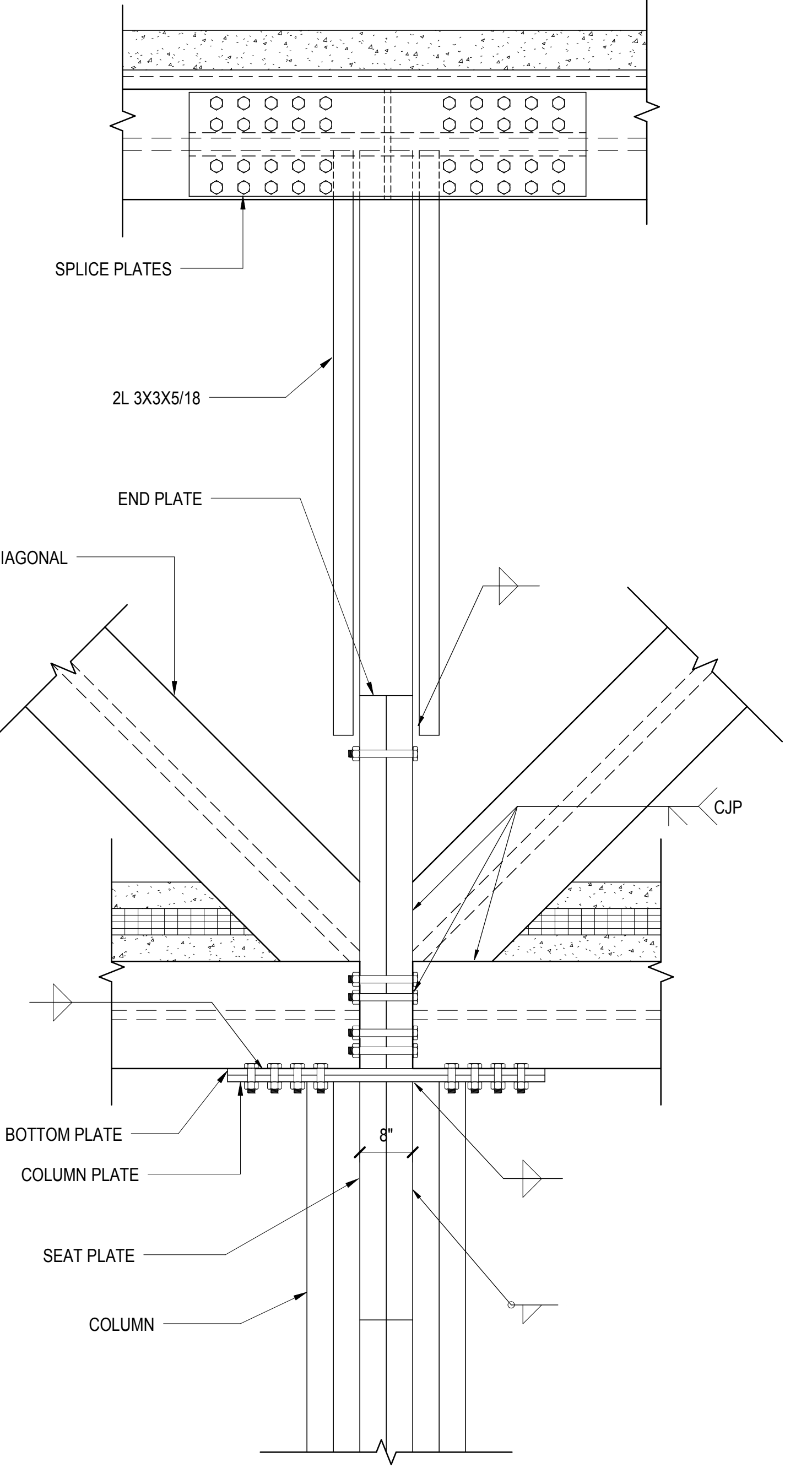
**2 TRUSS TO COLUMN CONNECTION AT COLUMN E/13.5**  
3/4" = 1'-0"



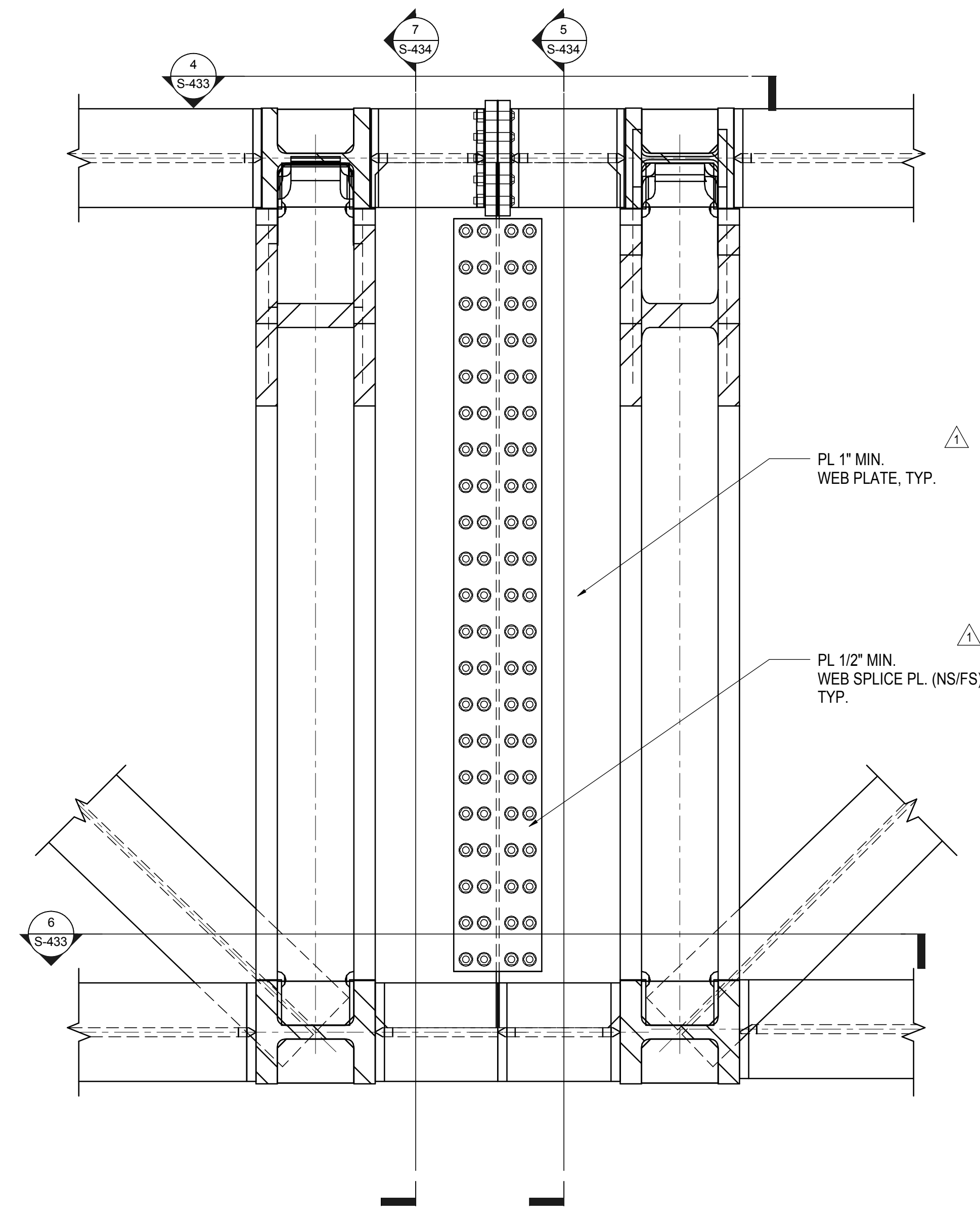
**SECTION**



**3 TYPICAL COLUMN & TRUSS CONNECTION**  
3/4" = 1'-0"



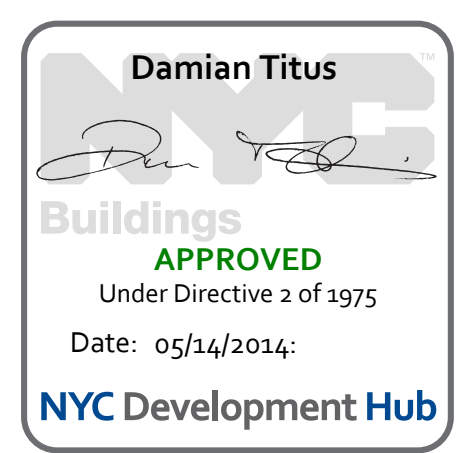
**4 TYPICAL COLUMN & TRUSS CONNECTION SECTION**  
3/4" = 1'-0"



**5 DOUBLE TRUSS WEB PLATE DETAIL**  
3/4" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
Md. - PLATFORM SUBMISSION	11/22/2013
A - DRG PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
A - DRG PHASE I STRUCTURAL UPDATE	9/20/2013
LIRR - 60% SUBMISSION	8/29/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
NYC DOB FILING	4/16/2013

Fig. Plan



Date: 05/29/2013  
Project No: N11330.00  
Title: Author  
Sheet Number: 130

**HYE-PL-S-431.00**  
**TRUSS SECTIONS AND DETAILS**

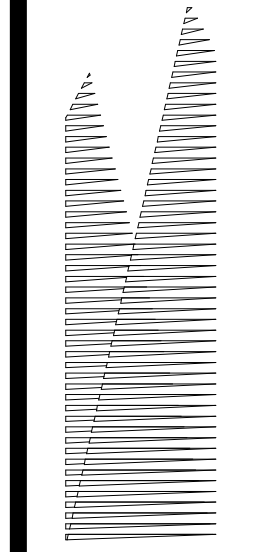
Drawing Number / B/S/C/S Drawing Number  
**S-431.00**  
SHEET 130 OF 201

S-431.00  
11/22/2013 3:59:59 PM  
C:\Users\N11330\OneDrive\Projects\Hudson Yards\Platform\Central\_Connect\TRUSS SECTIONS AND DETAILS



**HUDSON YARDS PLATFORM**

Address  
530 WEST 33RD STREET  
NEW YORK, NY



**Client**  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

**Owner**  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

**Construction Manager**  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

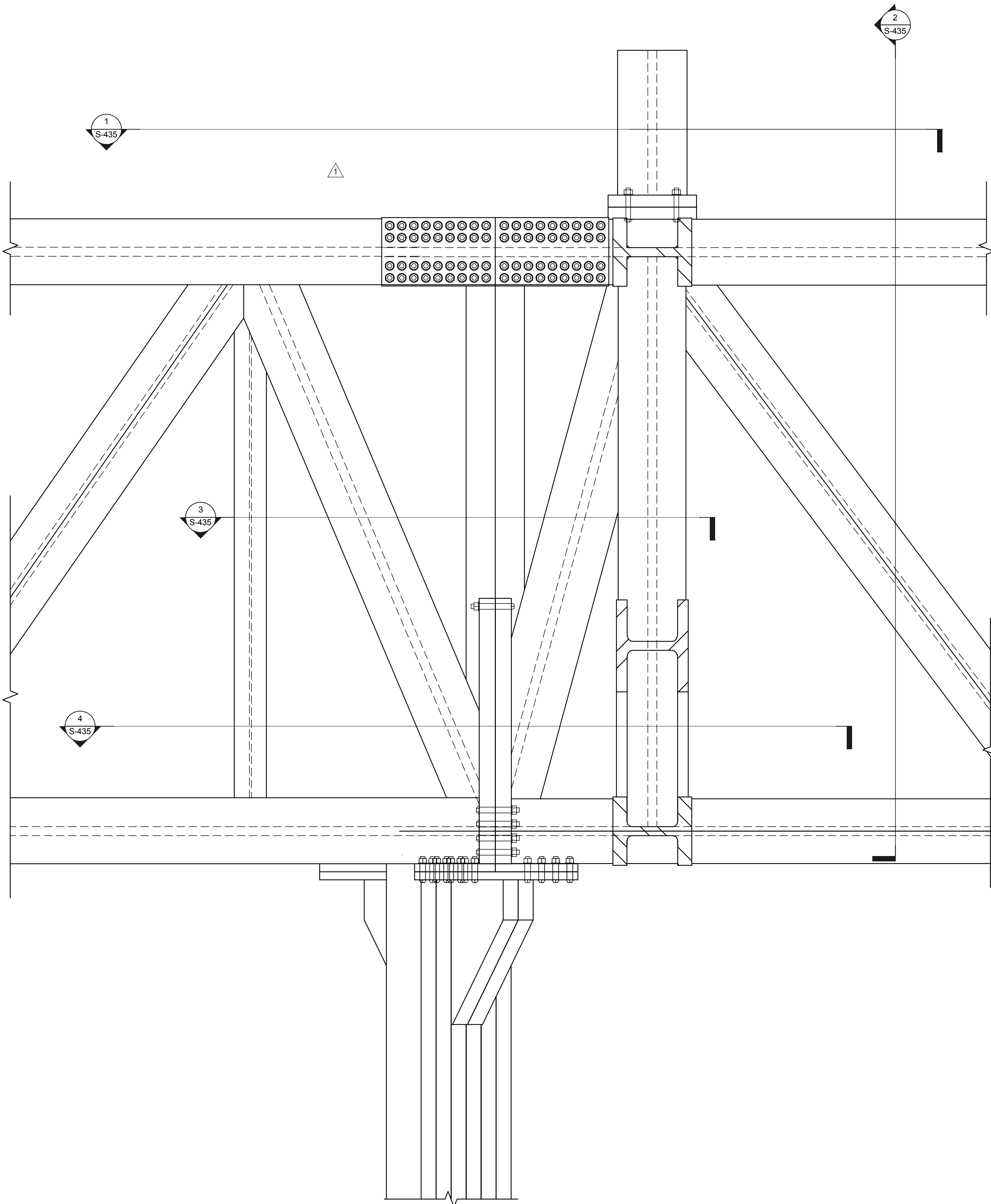
**Architect**  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

**Structural Engineer**  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

**Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security**  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

**LIRR Ventilation**  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

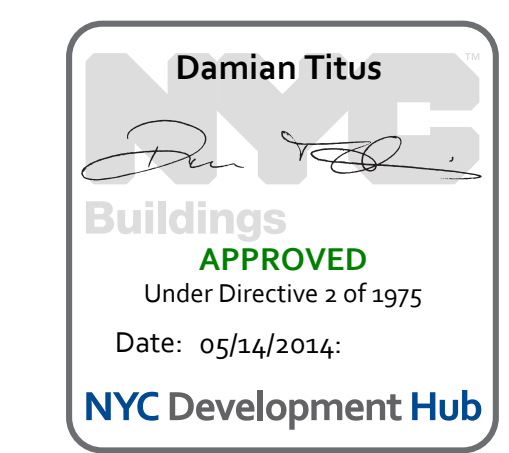
**LIRR Substation**  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973-9200 Fax: 212.682.6172



**ELEVATION VIEW AT TRUSS SUPPORTING COLUMN ABOVE (GRIDLINE D/10 & AA/10)**  
① 3/4" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
MoU - PLATFORM SUBMISSION	
2. DEPHASE 1 STRUCTURE UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
3. DEPHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
MoU - Description	MoU

Rev Plot

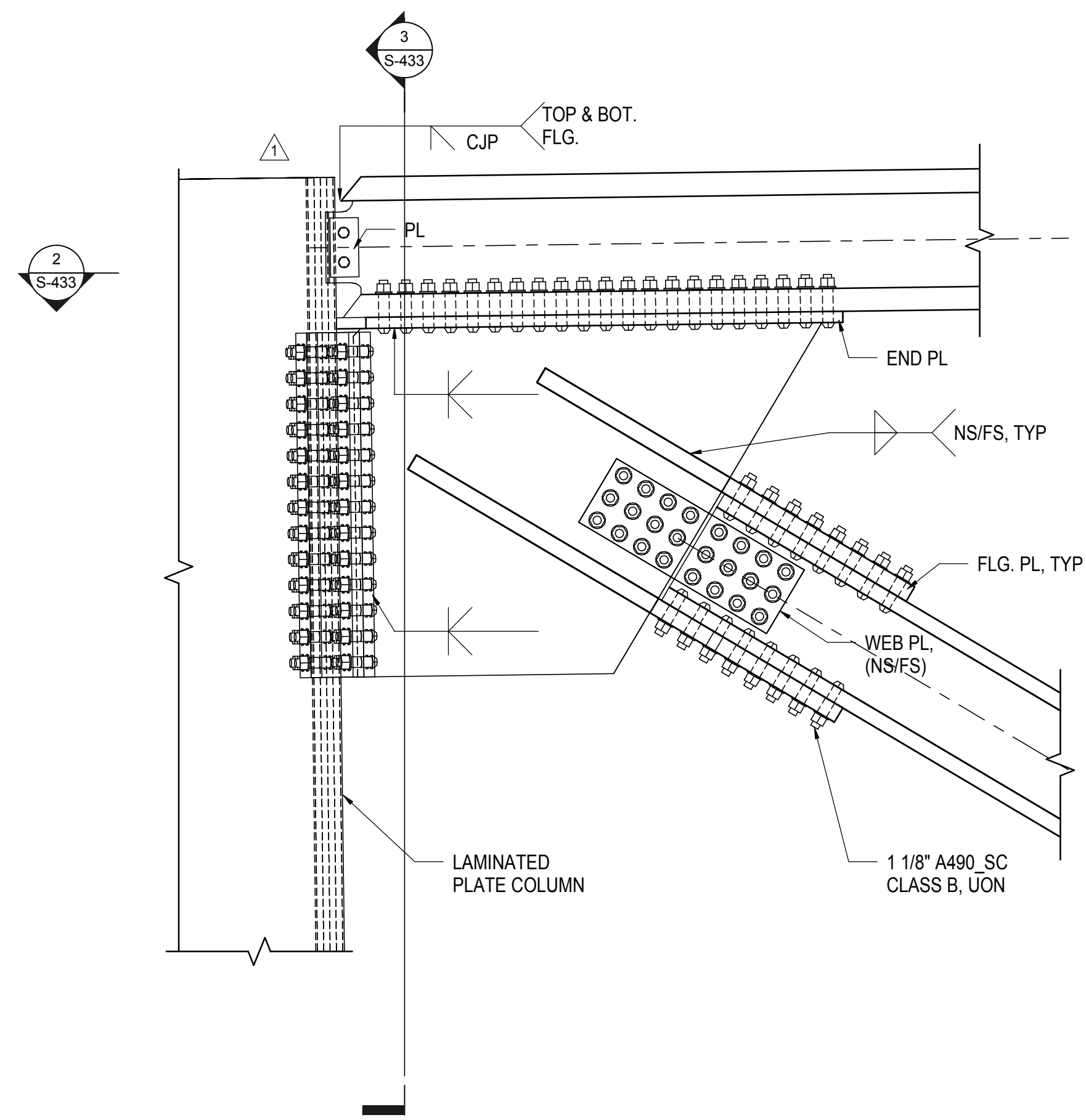


Date: 08/09/2013  
Project No: N11330.00  
Drawn By: Author  
Sheet Number: 131

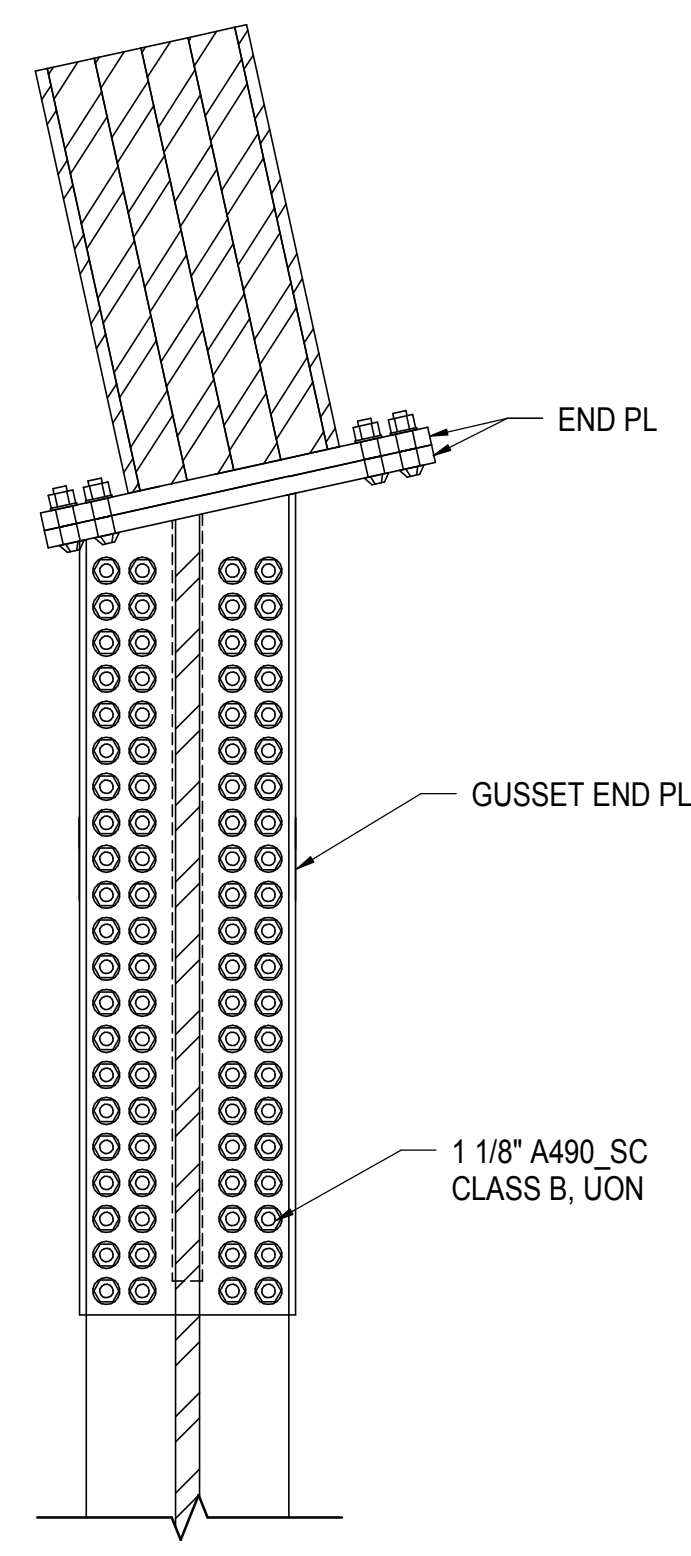
**HYE -PL -S-432.00**  
Drawing Title  
**TRUSS SECTIONS AND DETAILS**

Drawing Number / B/S/CAN Drawing Number  
**S-432.00**

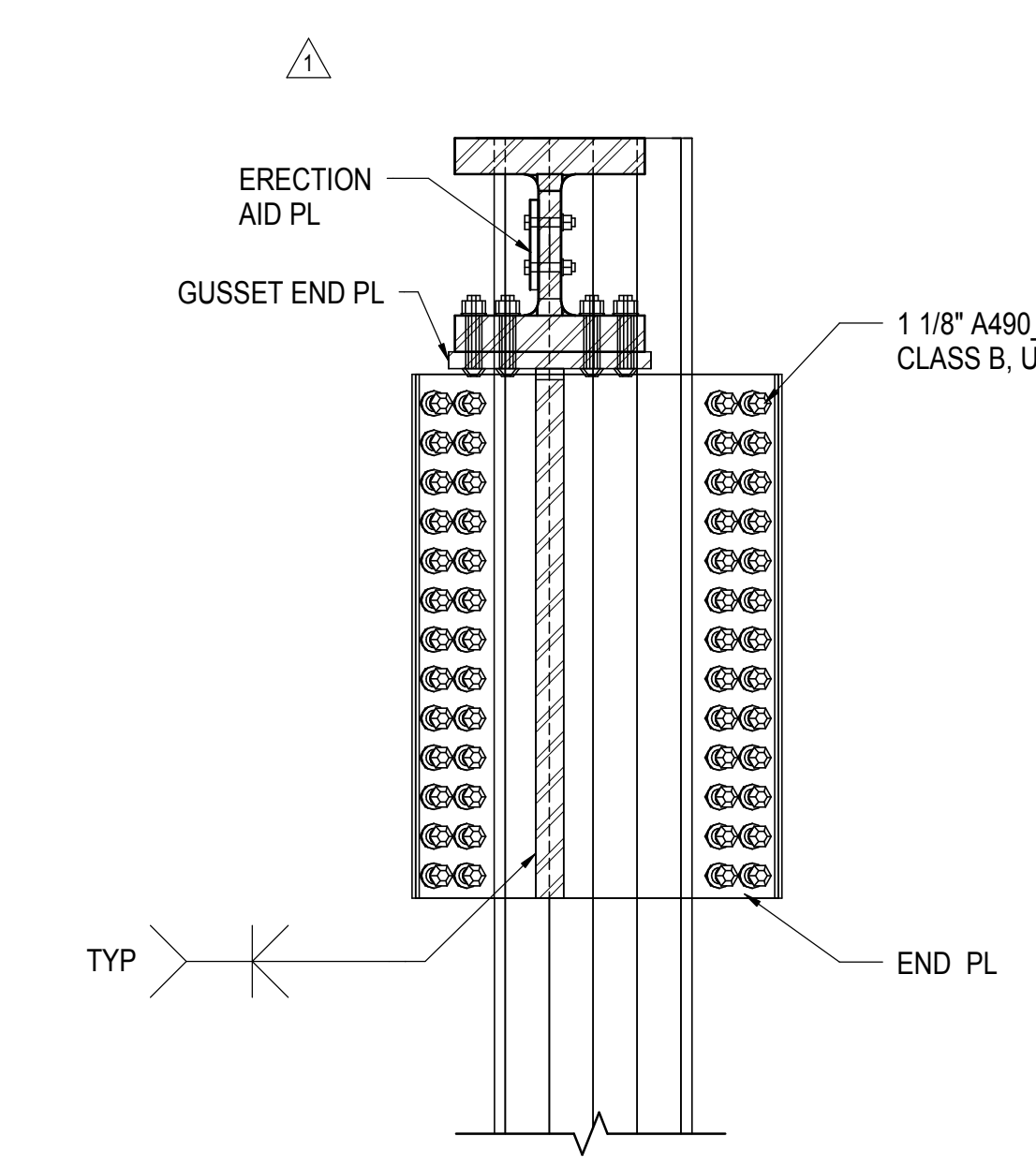




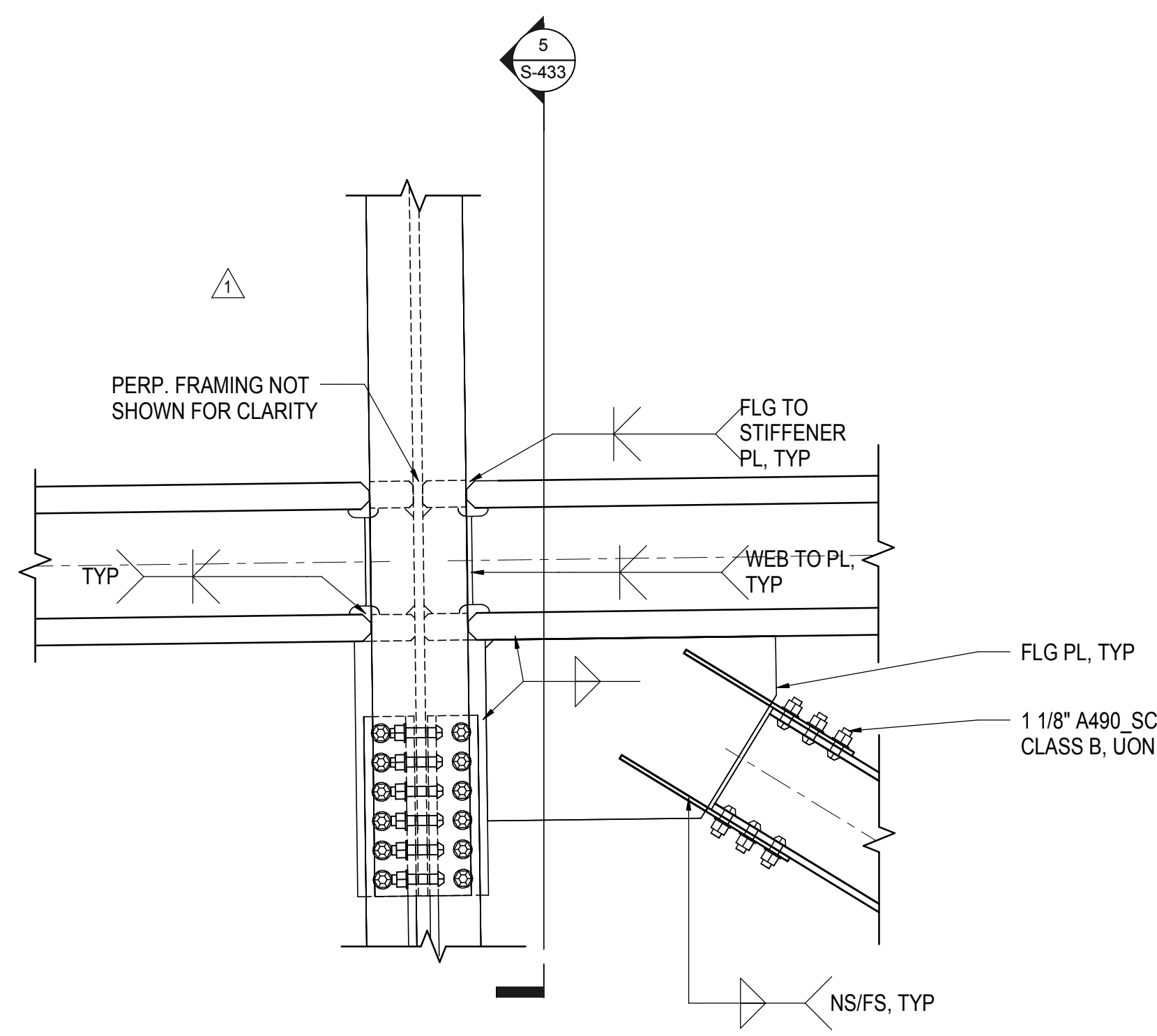
1 TEMPORARY TRUSS BOLTED TOP CHORD NODE  
3/4" = 1'-0"



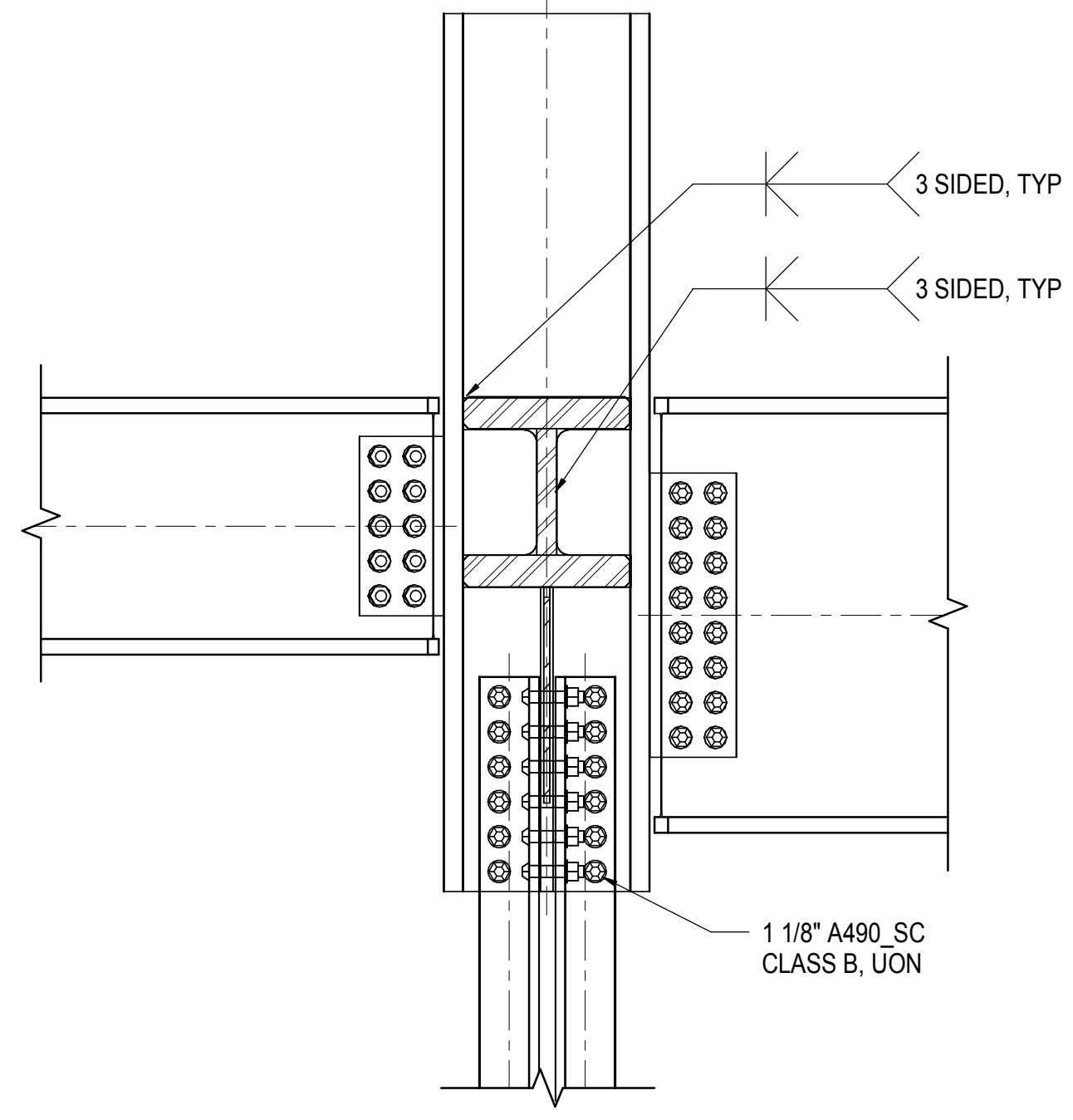
2 TEMPORARY TRUSS GUSSET END PLATE TO BEAM FLANGE  
3/4" = 1'-0"



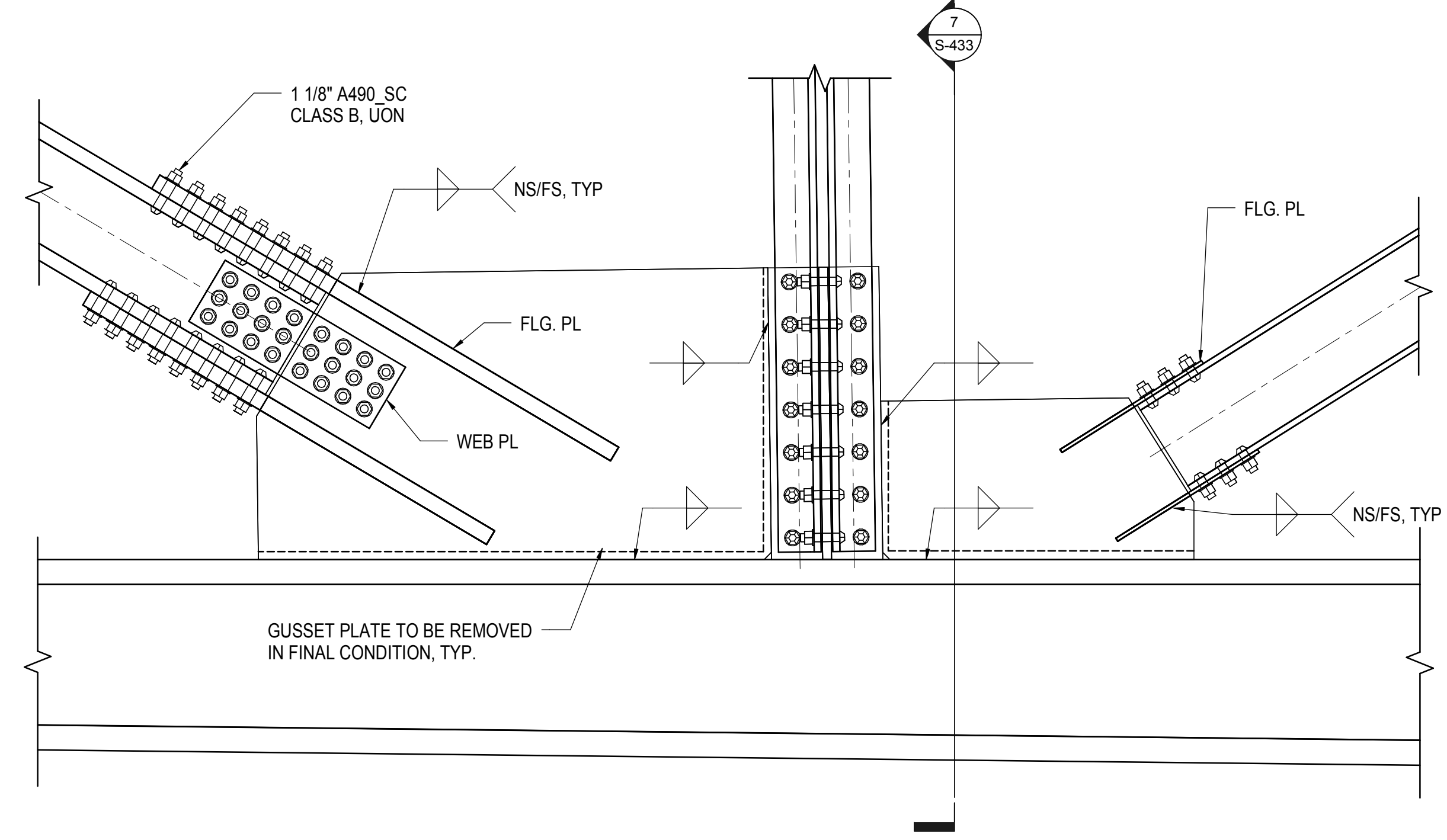
3 TEMPORARY TRUSS GUSSET END PLATE TO BOX COLUMN  
3/4" = 1'-0"



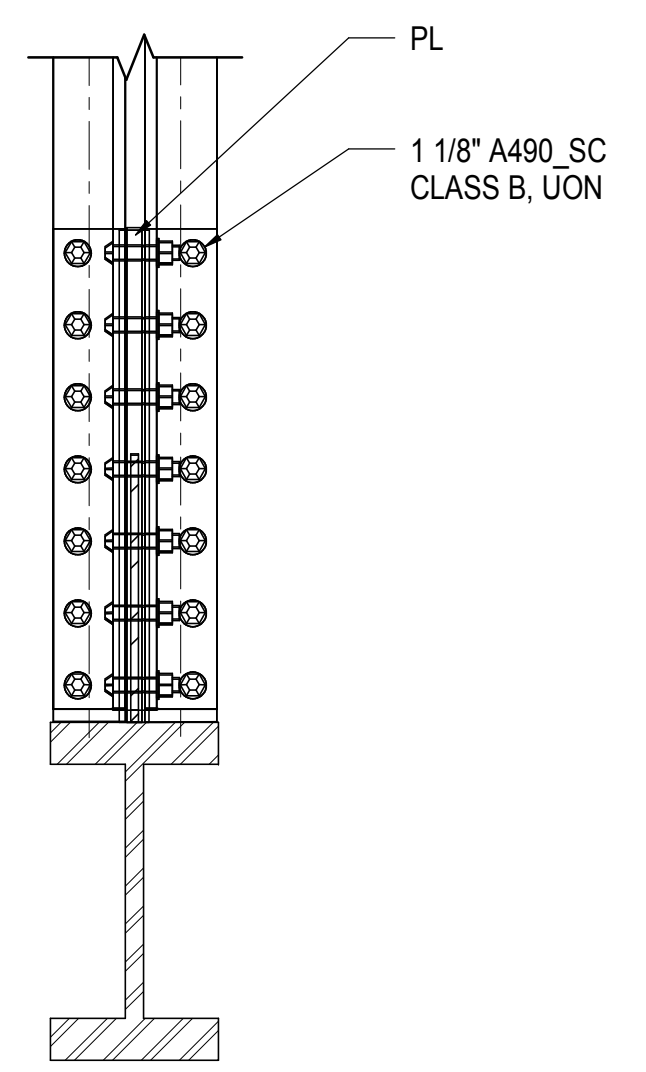
4 TEMPORARY TRUSS CHORD NODE AT HANGER  
3/4" = 1'-0"



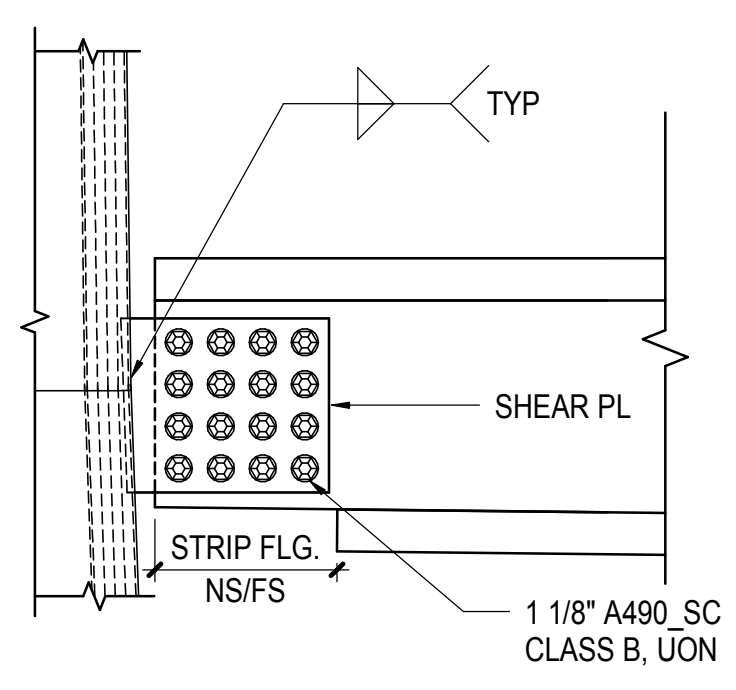
5 HANGER DETAIL AT TEMPORARY TRUSS  
3/4" = 1'-0"



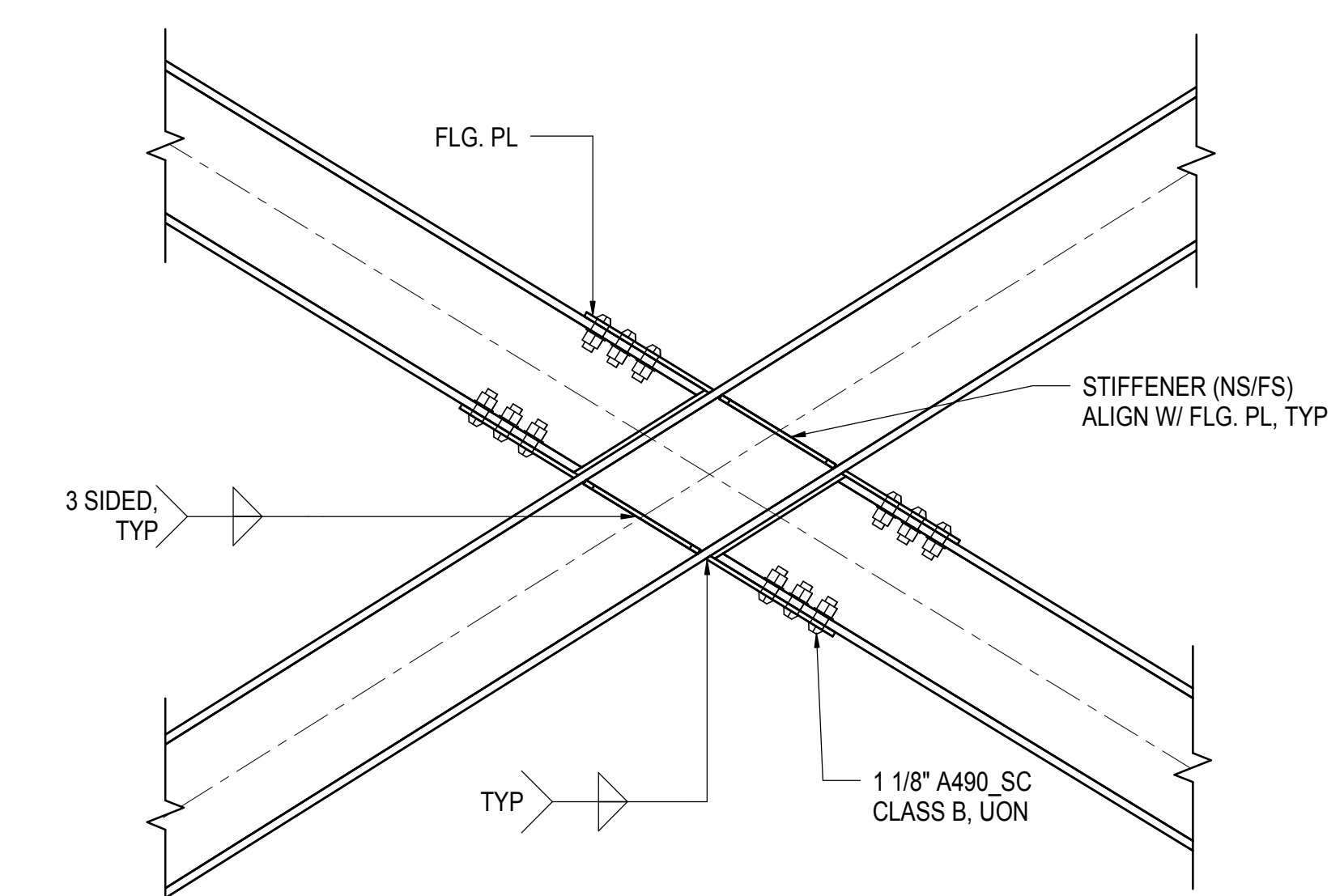
6 TEMPORARY TRUSS BOTTOM CHORD GUSSET DETAIL AT HANGER  
3/4" = 1'-0"



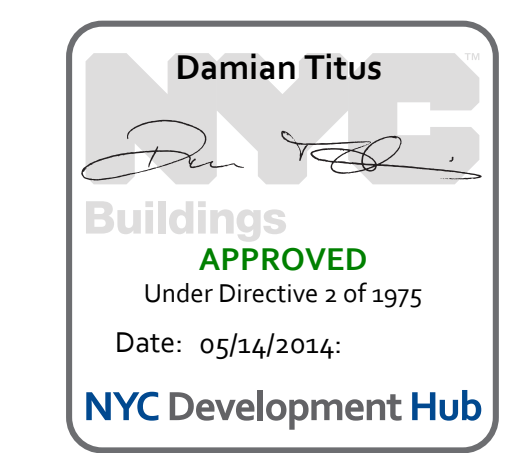
7 TEMPORARY TRUSS BOTTOM SECTION AT HANGER  
3/4" = 1'-0"



8 BEAM END DETAIL AT TEMPORARY TRUSS BOTTOM CHORD  
3/4" = 1'-0"

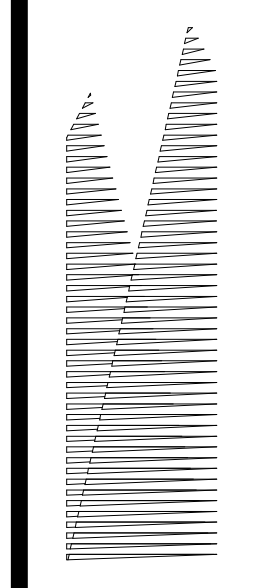


9 TEMPORARY X-BRACING DETAIL AT CENTER NODE  
3/4" = 1'-0"



**HUDSON YARDS PLATFORM**

Address  
530 WEST 33RD STREET  
NEW YORK, NY



Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Oxford Properties Group  
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Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

Architect  
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PC Architects & Planning Consultants  
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Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
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LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

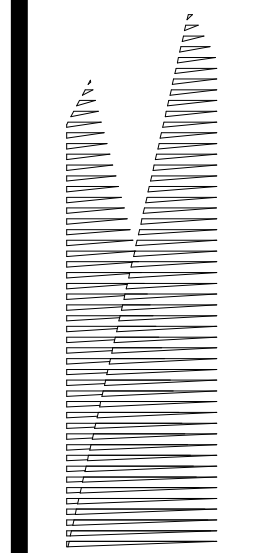
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L.I.R.R. - PRE-FINAL 100%	11/22/2013
Mod. - PLATFORM SUBMISSION	
A. DRG PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
A.	9/20/2013
Rev	Rev

Rev Plot

Date	08/09/13
Project No.	N11330.00
Drawn By	Author
Minor Number	

**HYE - PL - S-433.00**  
**TRUSS CONNECTION**  
**DETAILS**





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Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

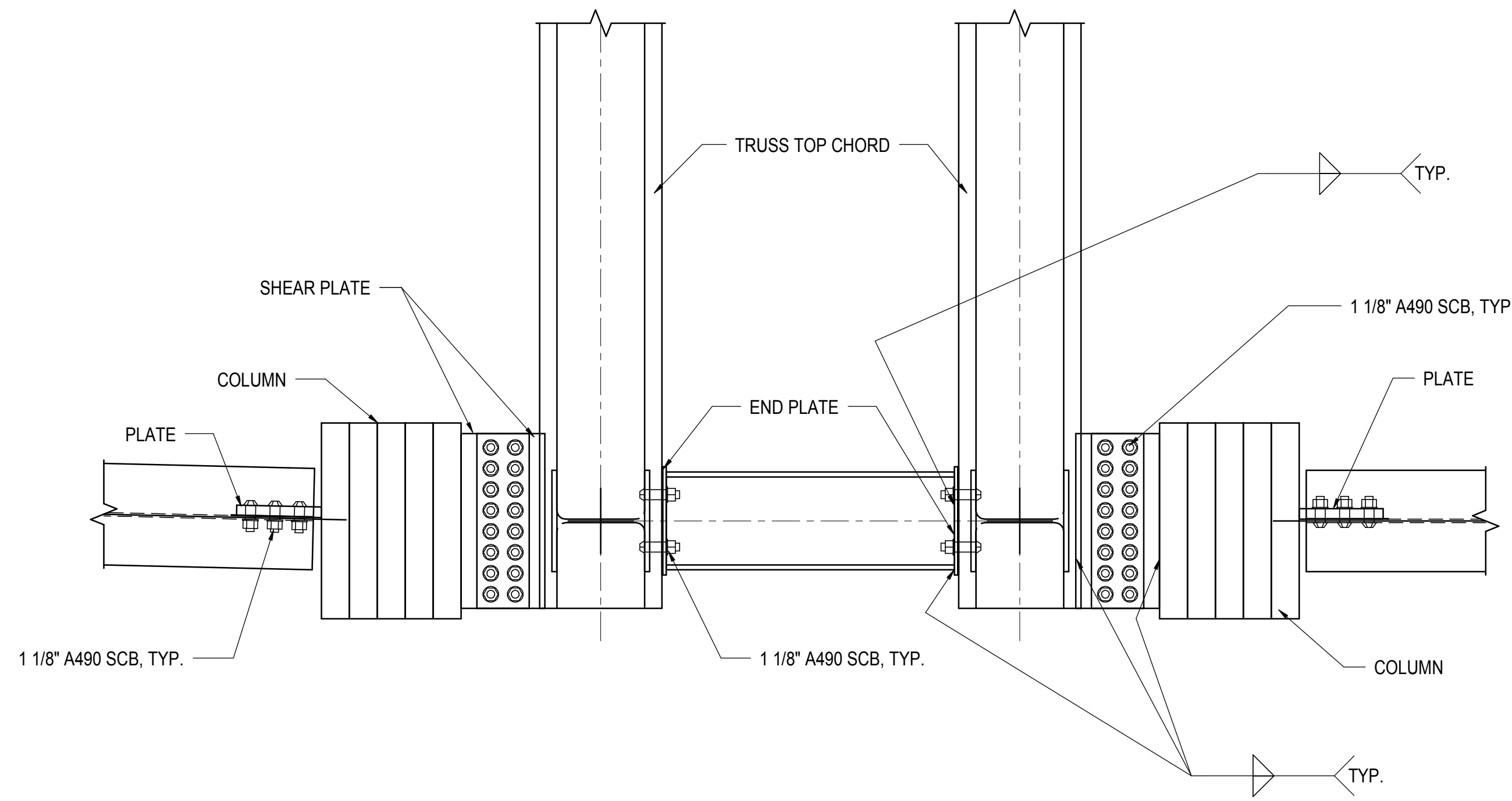
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
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Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
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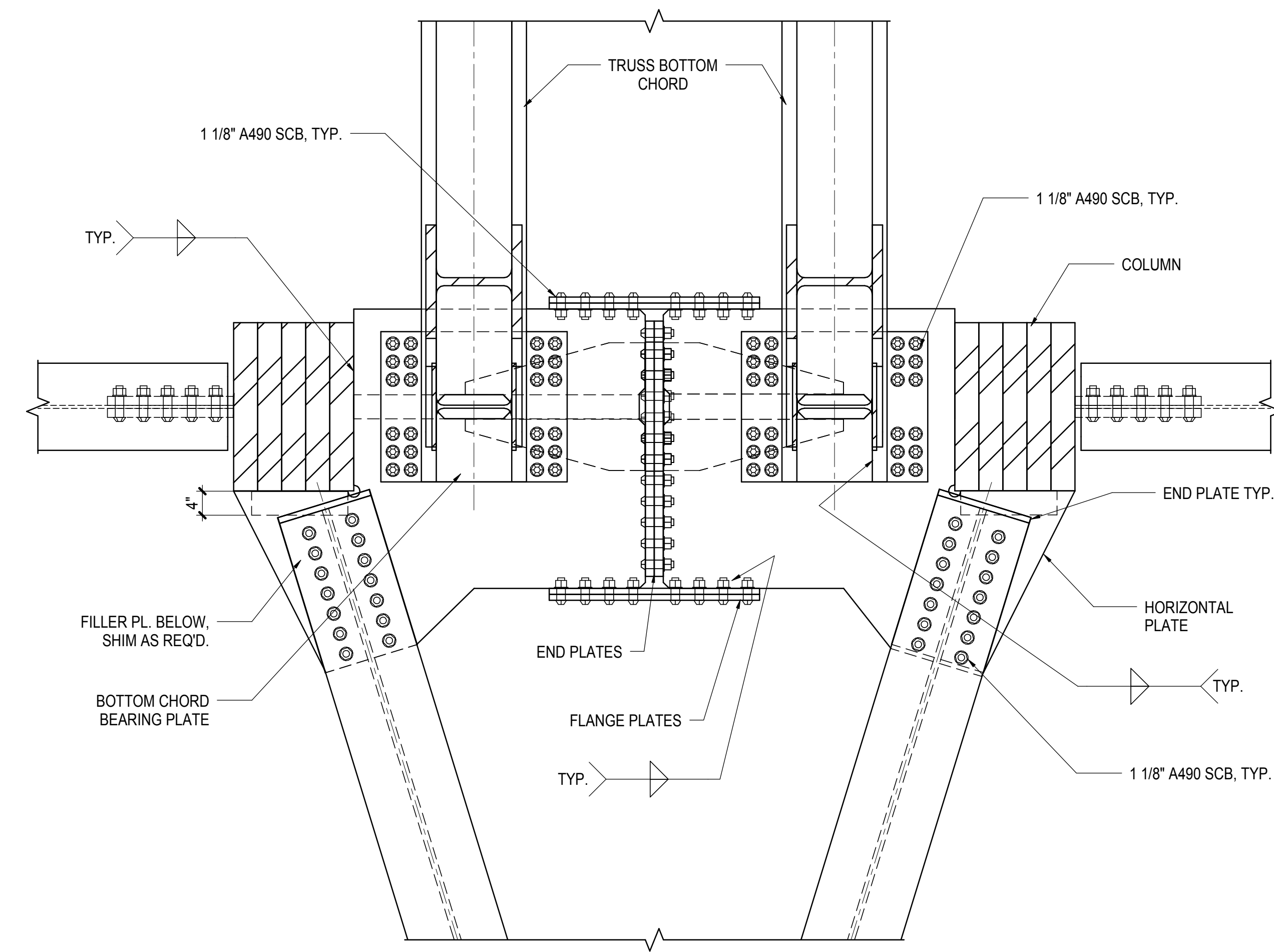
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
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LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

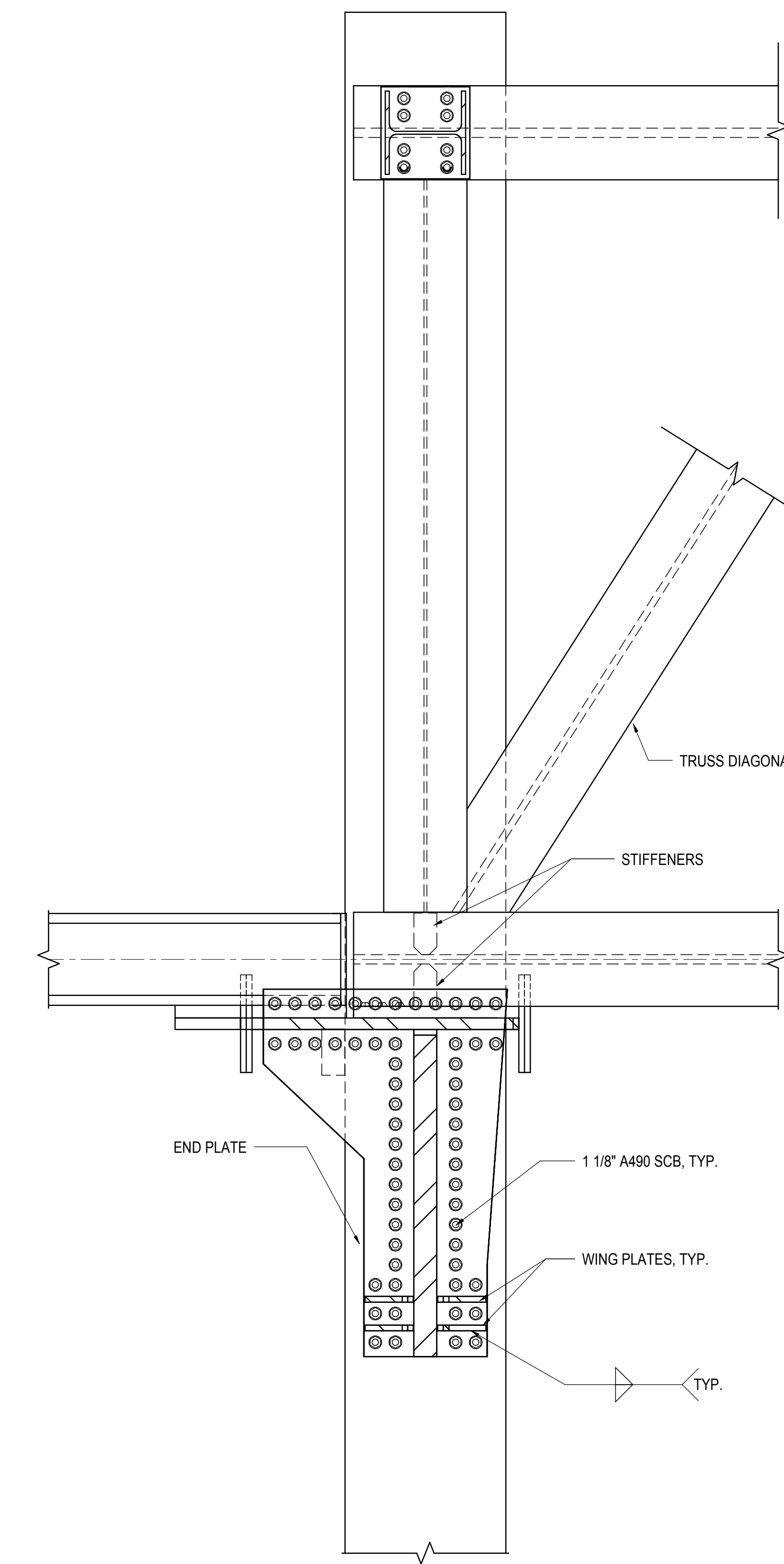
LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



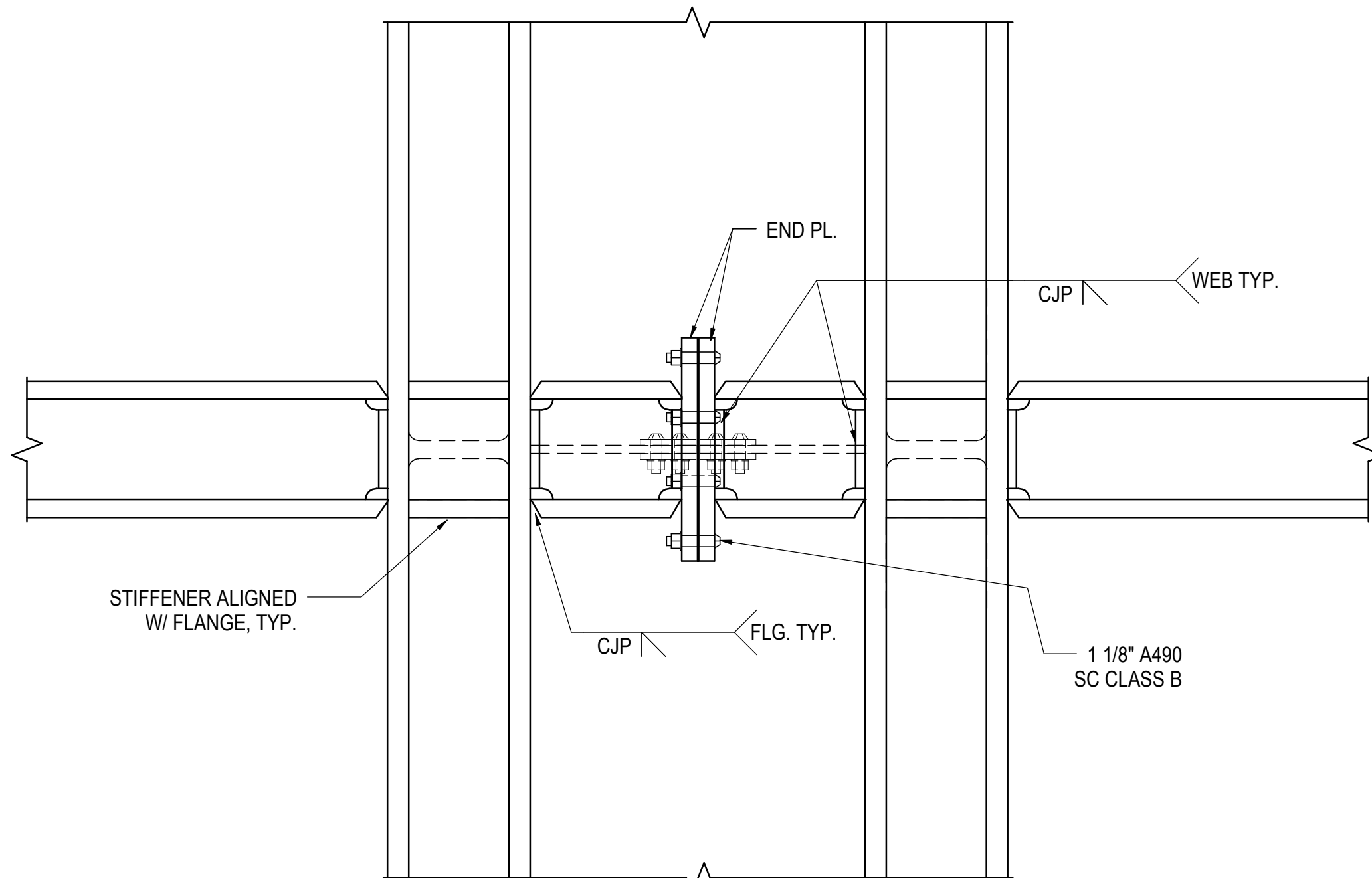
**1 TOP CHORD DOUBLE TRUSS THRU FORCE DETAIL**  
3/4" = 1'-0"



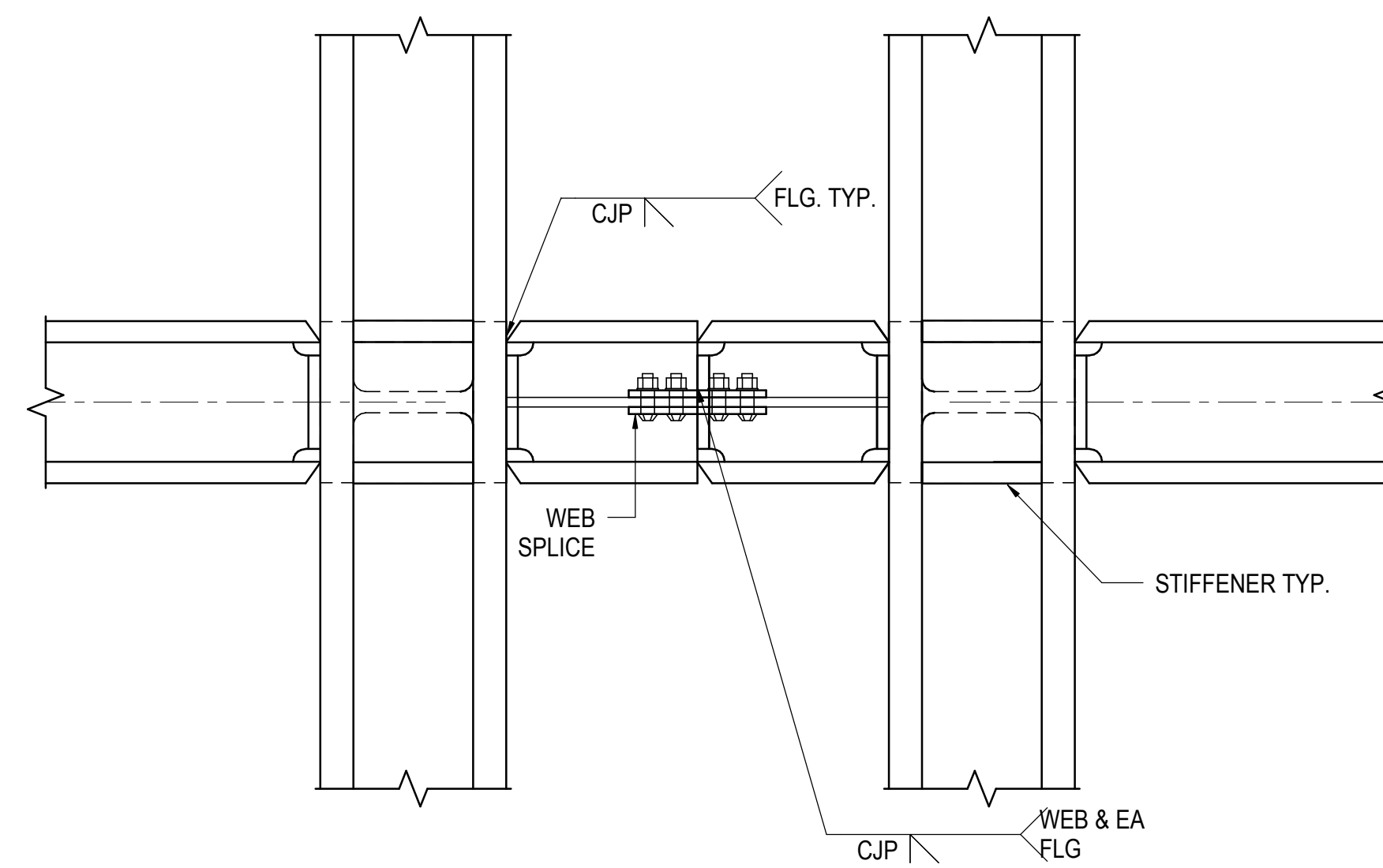
**2 BOTTOM CHORD DOUBLE TRUSS THRU FORCE DETAIL**  
3/4" = 1'-0"



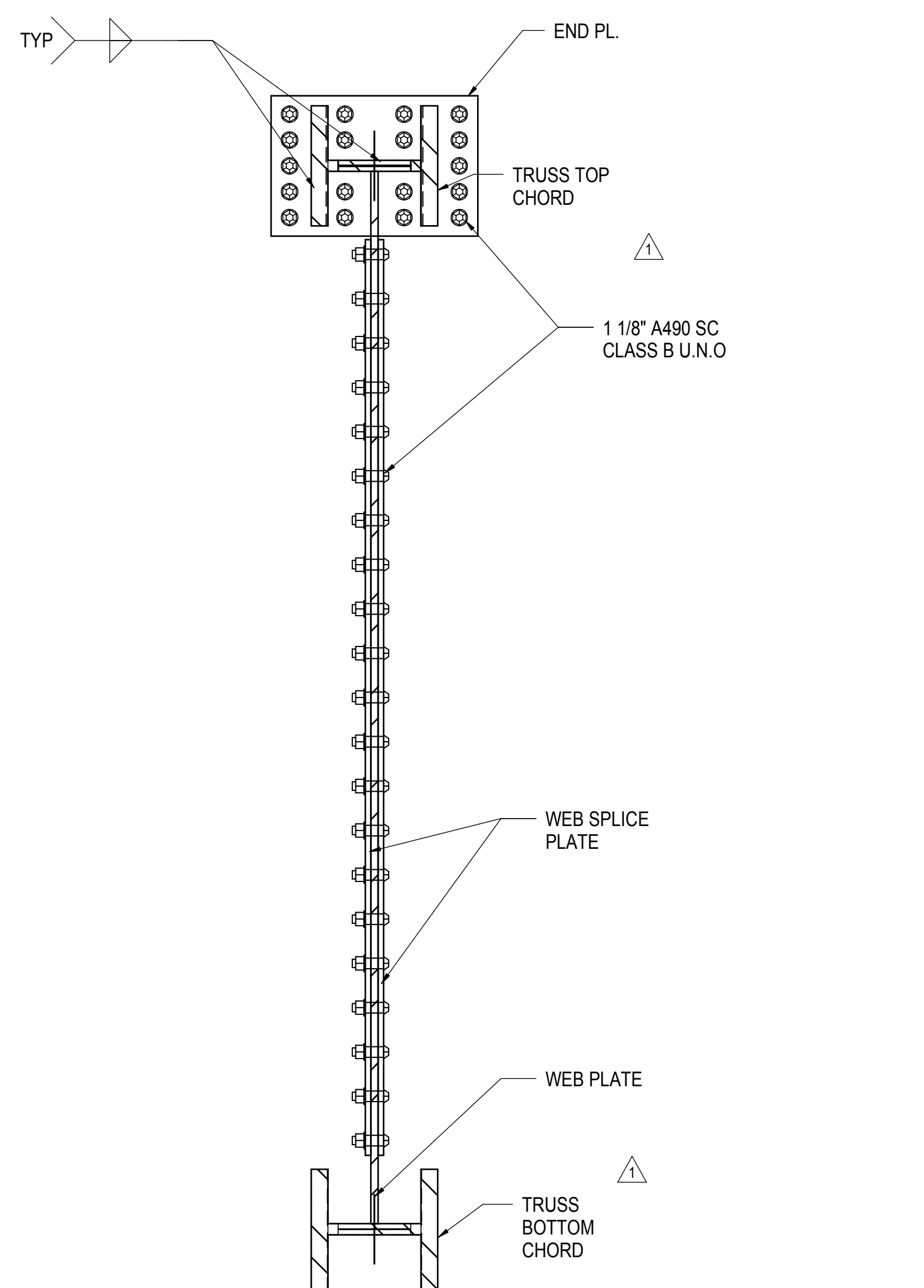
**3 SECTION AT BOTTOM CHORD DOUBLE TRUSS THRU FORCE**  
3/4" = 1'-0"



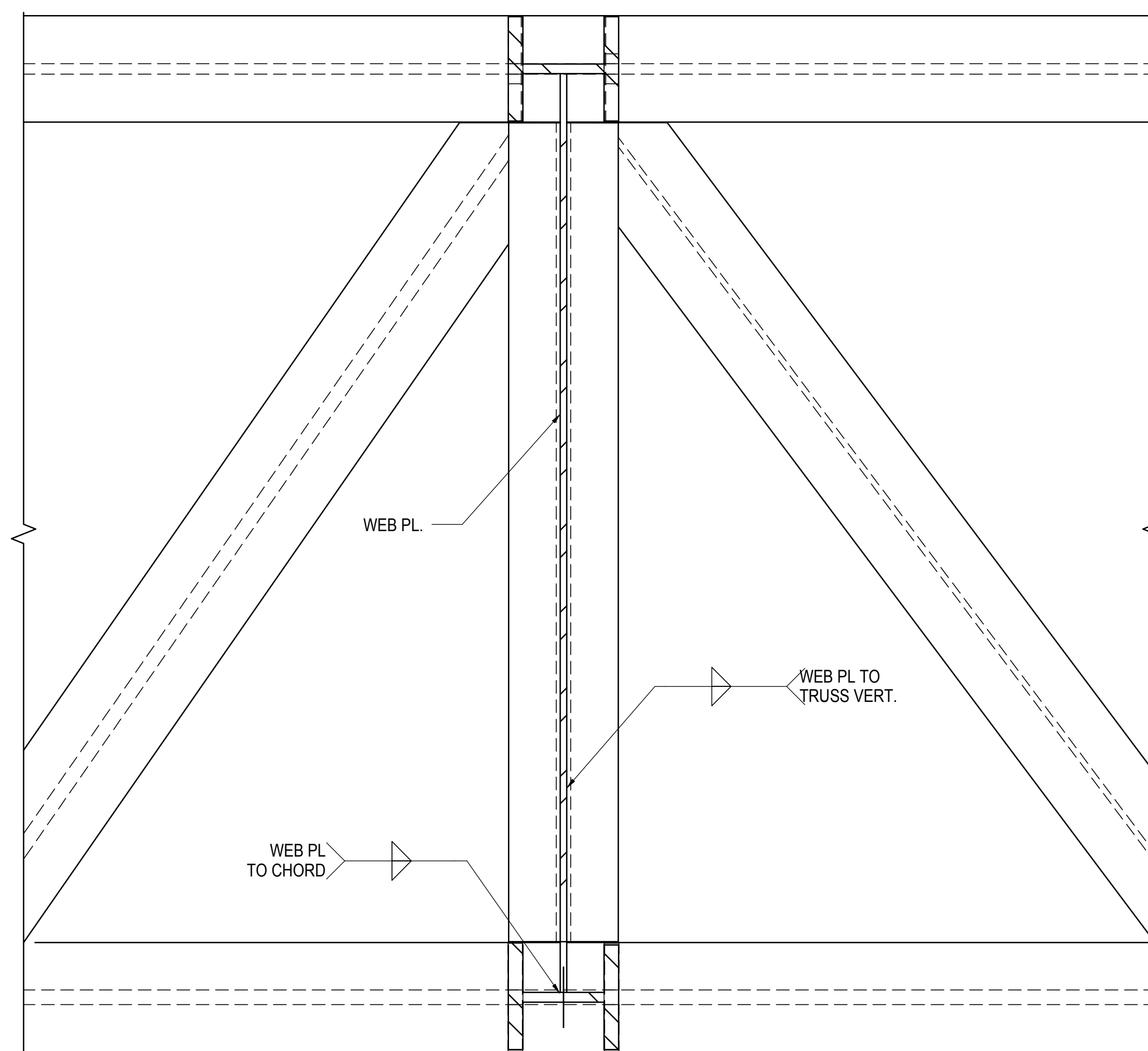
**4 DETAIL AT DOUBLE TRUSS TOP CHORD PANEL SPLICE**  
3/4" = 1'-0"



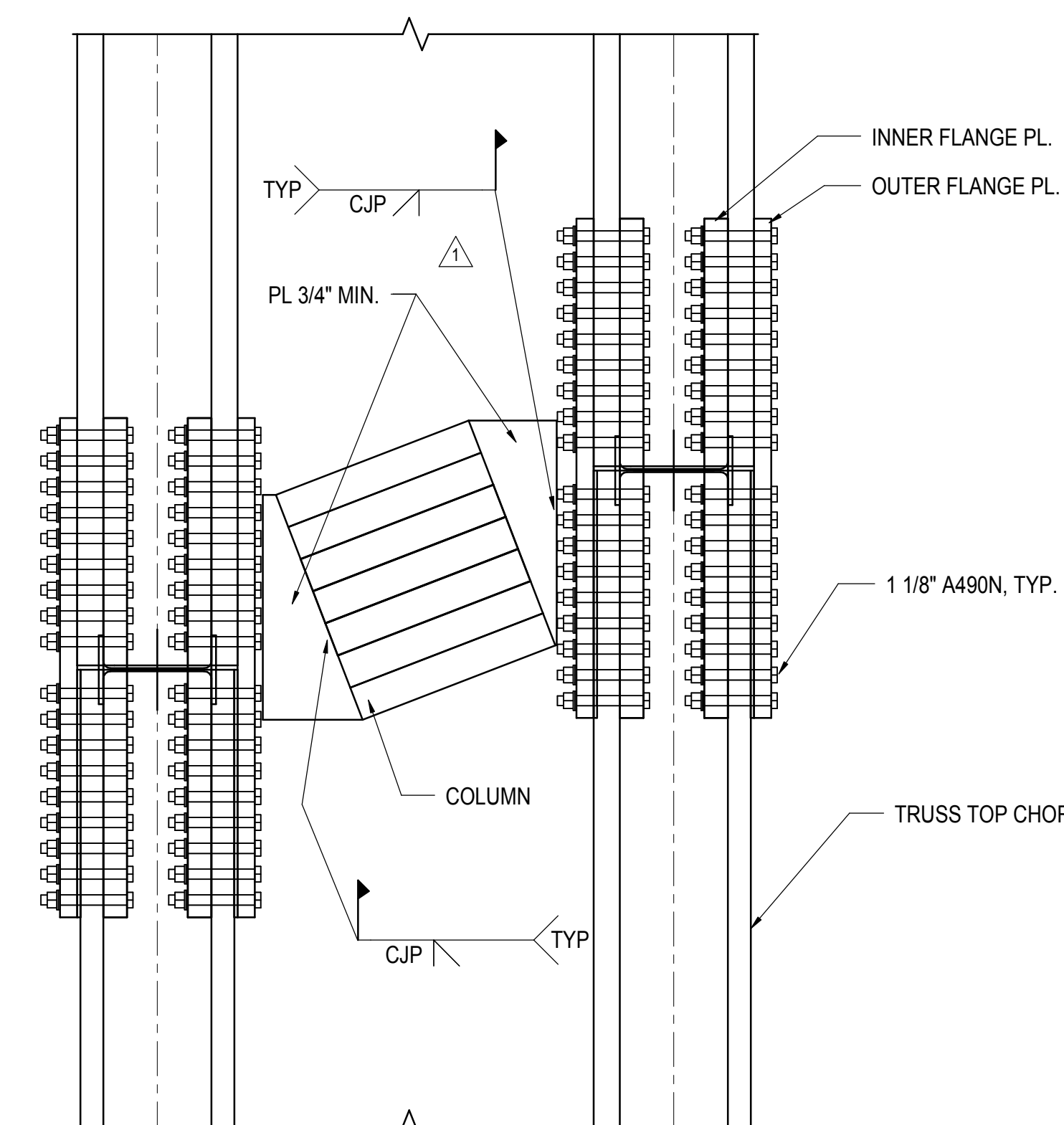
**6 DETAIL AT DOUBLE TRUSS TOP CHORD PANEL SPLICE**  
3/4" = 1'-0"



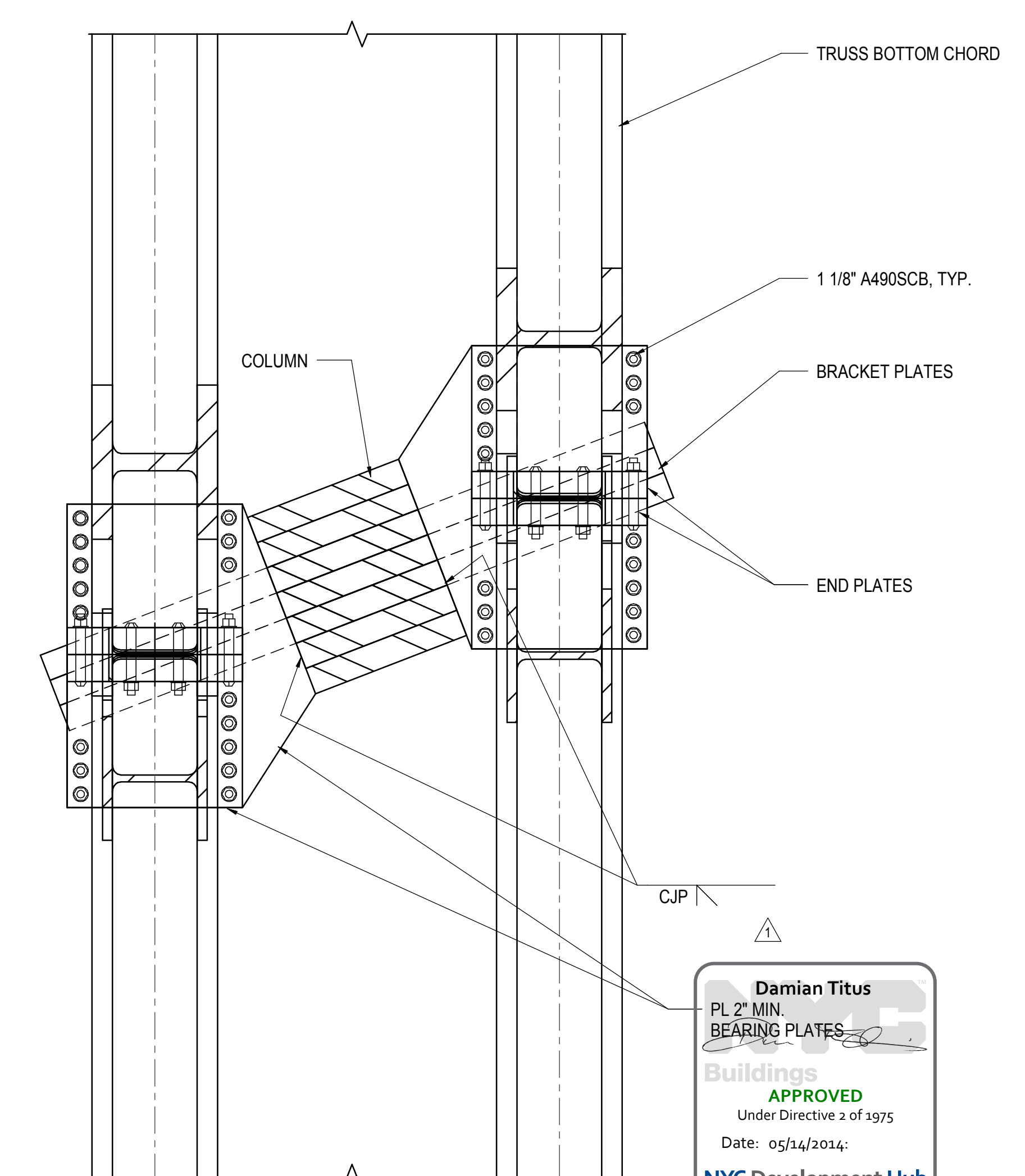
**5 DETAIL AT DOUBLE TRUSS WEB PLATE BOLTED SPLICE**  
3/4" = 1'-0"



**7 WELD DETAIL AT WEB PLATE TO POST**  
3/4" = 1'-0"



**8 SECTION AT DOUBLE TRUSS TOP CHORD OVER BOX COLUMN**  
3/4" = 1'-0"



**9 SECTION AT DOUBLE TRUSS BOTTOM CHORD OVER BOX COLUMN**  
3/4" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
MdE - PL PLATFORM SUBMISSION	
A. DE-01 PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
A. DE-01 PHASE I STRUCTURE UPDATE	9/20/2013
Rev	Description

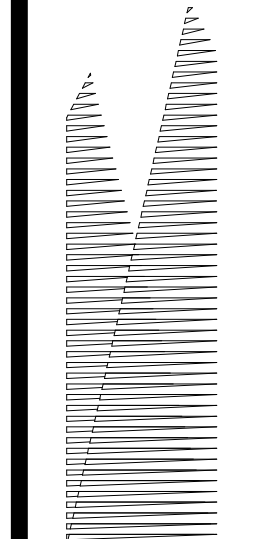
Rev. No.

Date: 08/09/13  
Project No: N11330.00  
Drawn By: Author  
Check Number: Author

**HYE - PL - S-434.00**  
**TRUSS CONNECTION**  
**DETAILS**

Drawing Number: /S/CS/05 Drawing Number  
**S-434.00**





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Construction Manager  
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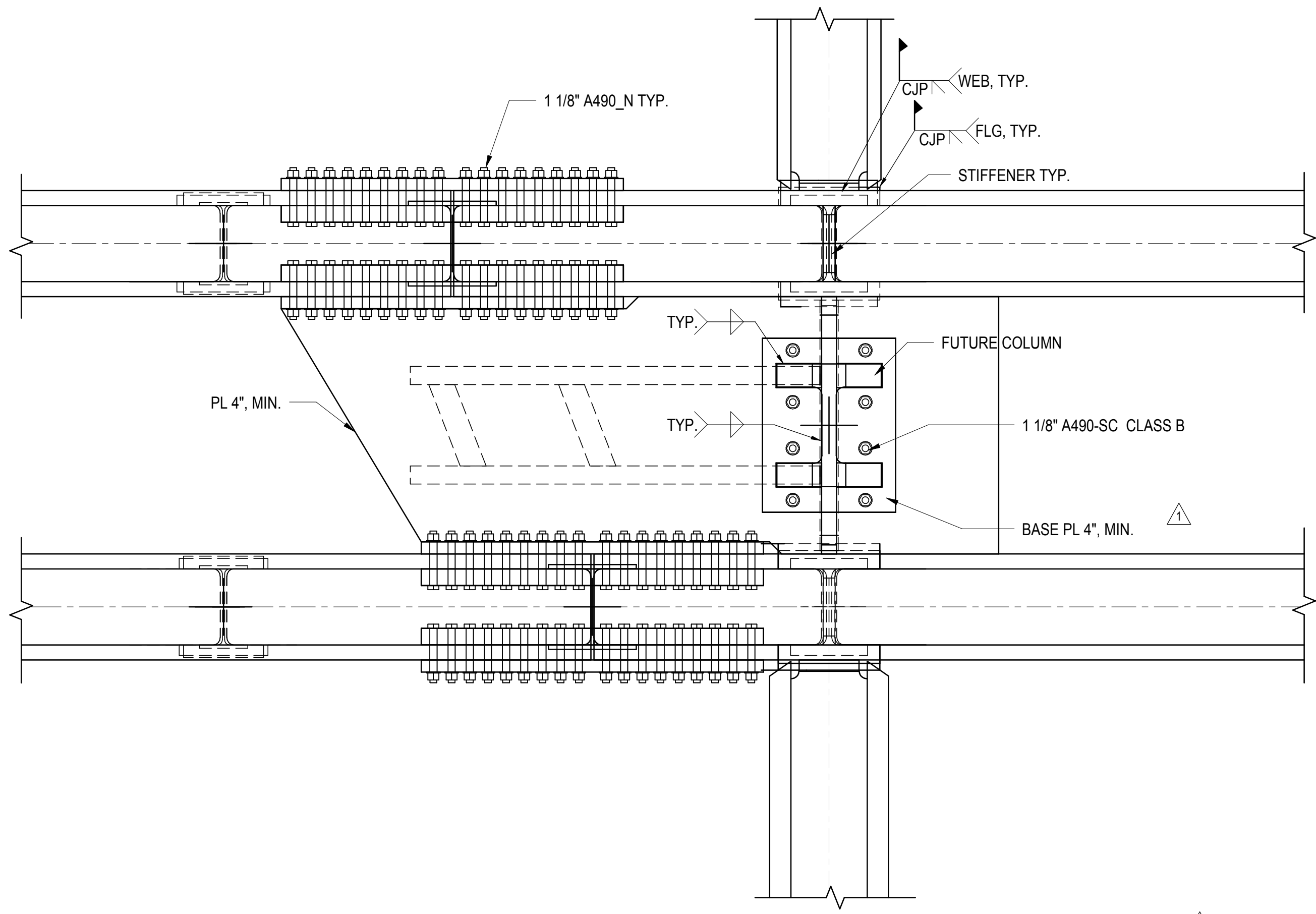
Architect  
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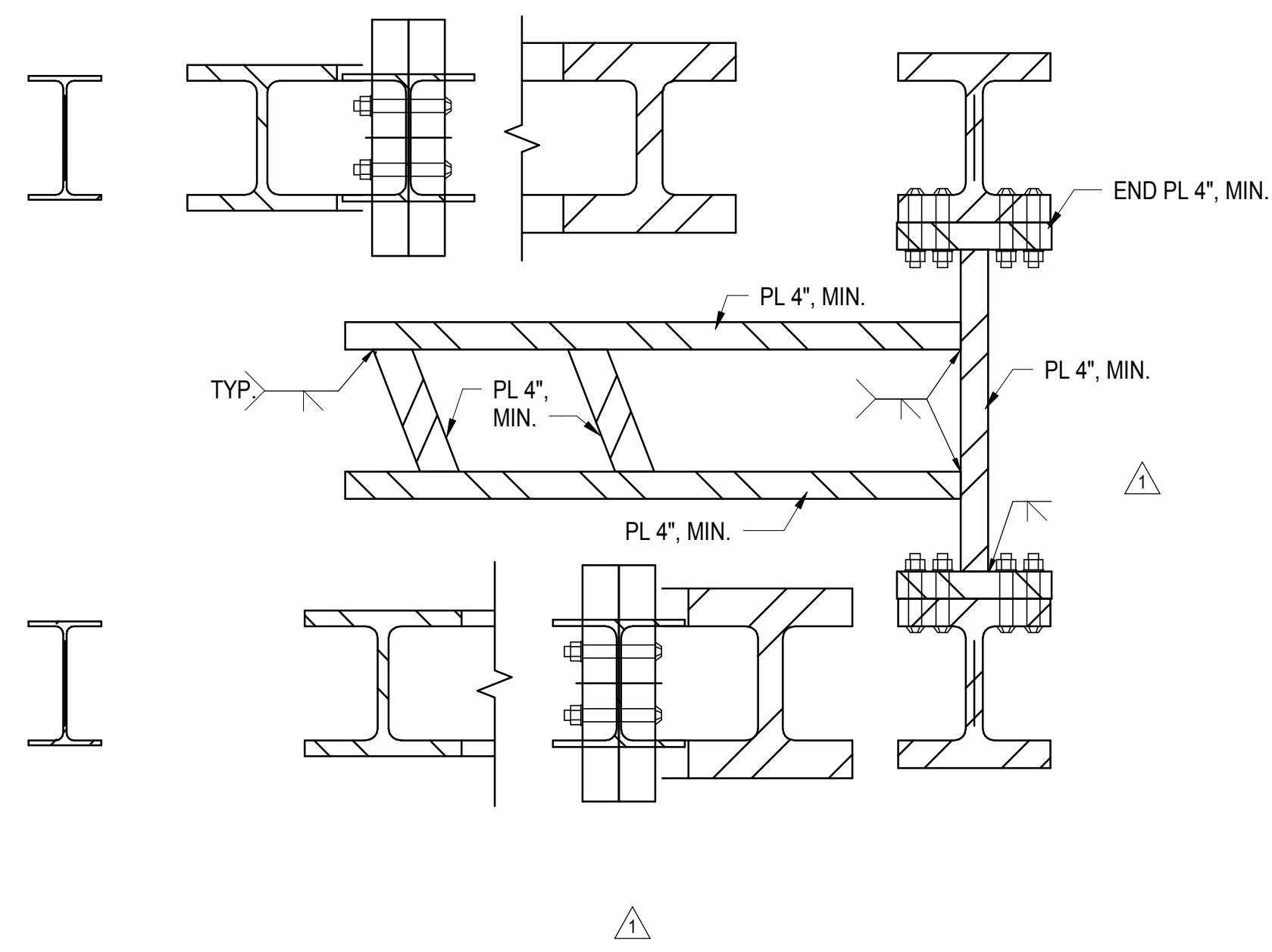
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

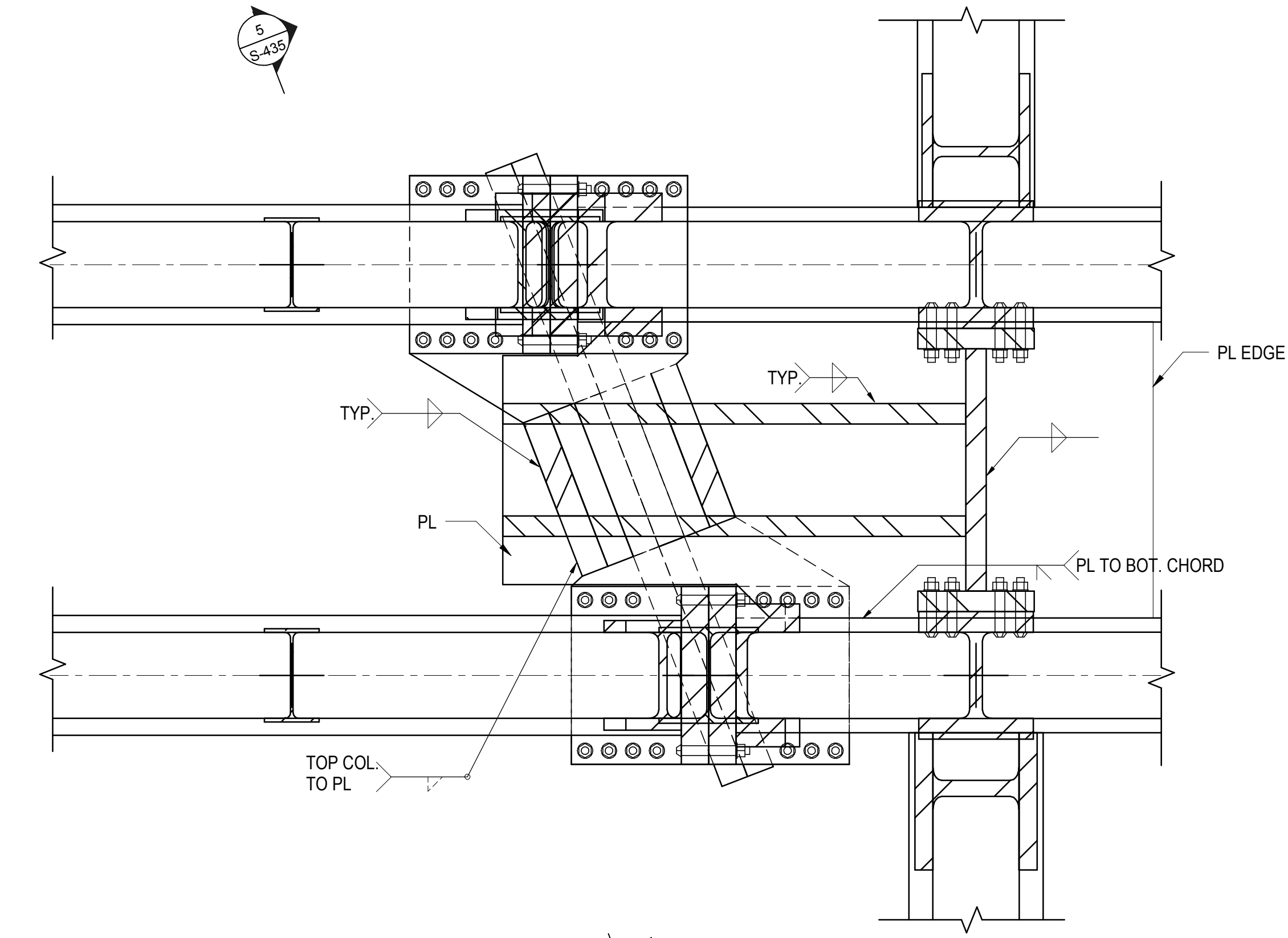
LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



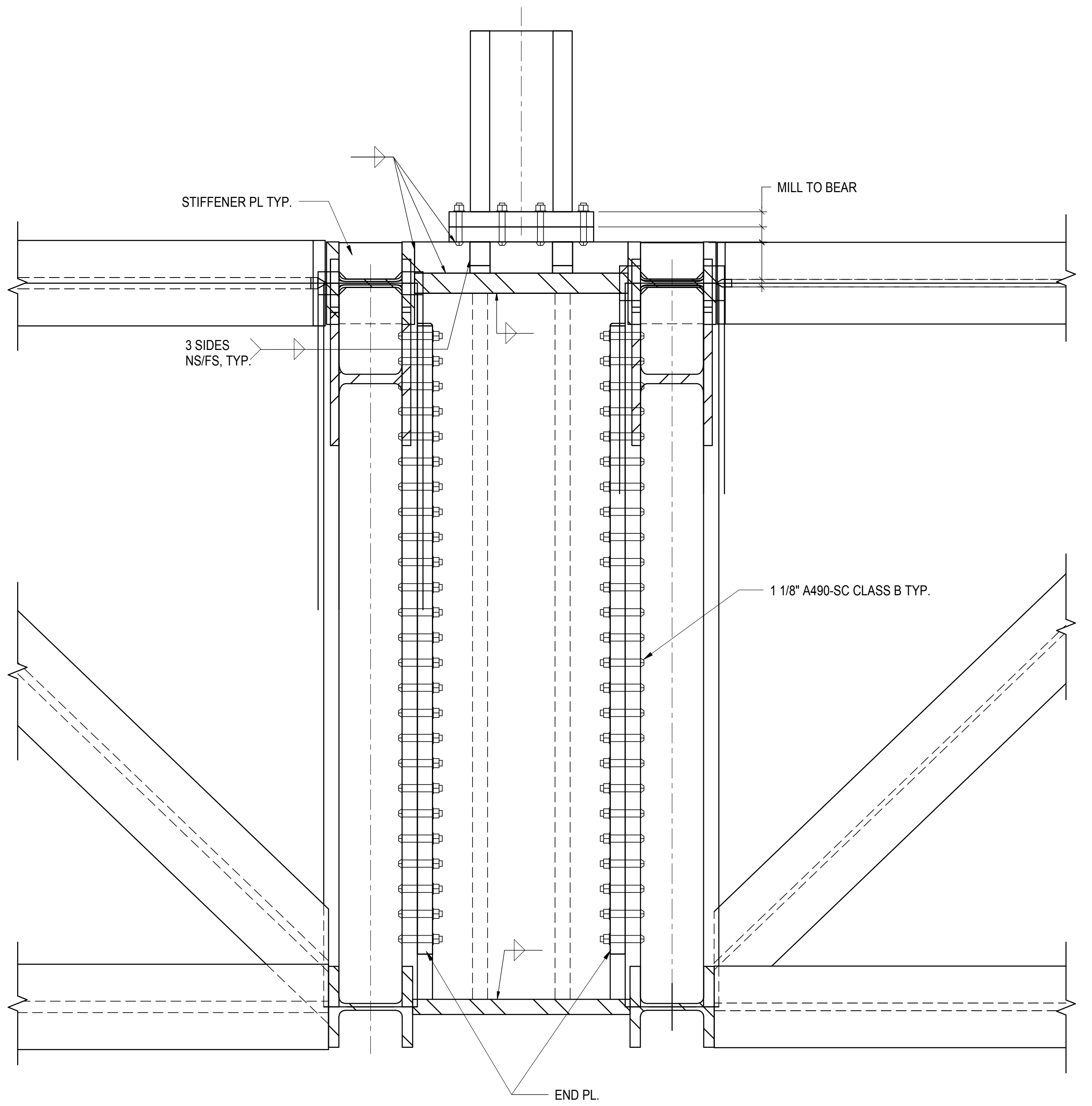
**1 TOP CHORD SECTION AT COLUMN ABOVE TRUSS LOCATION (GRIDLINE D/10 & AA/10)**  
3/4" = 1'-0"



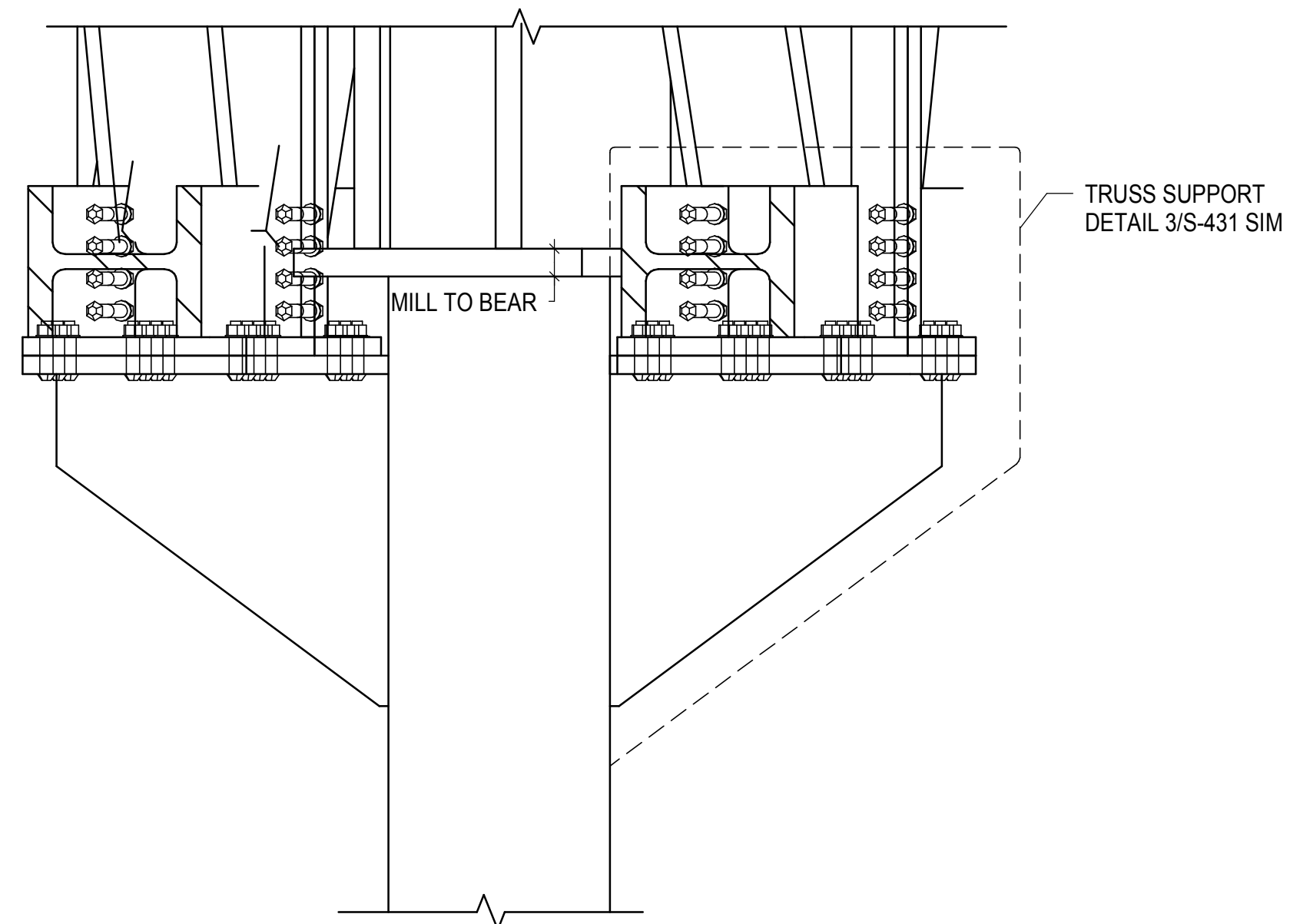
**3 SECTION THRU DOUBLE TRUSS AT COLUMN ABOVE LOCATION (GRIDLINE D/10 & AA/10)**  
3/4" = 1'-0"



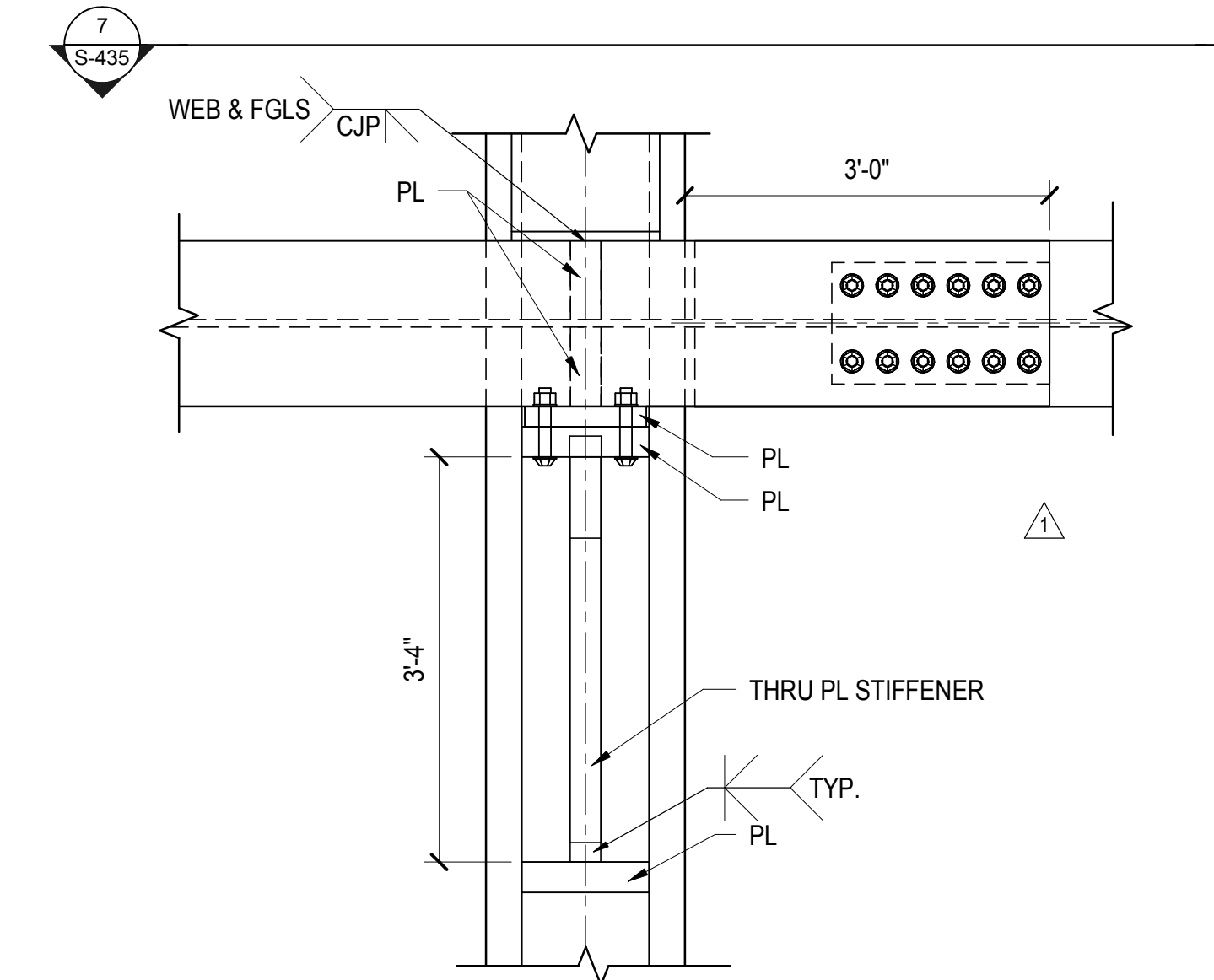
**4 BOTTOM CHORD SECTION AT COLUMN ABOVE TRUSS LOCATION (GRIDLINE D/10 & AA/10)**  
3/4" = 1'-0"



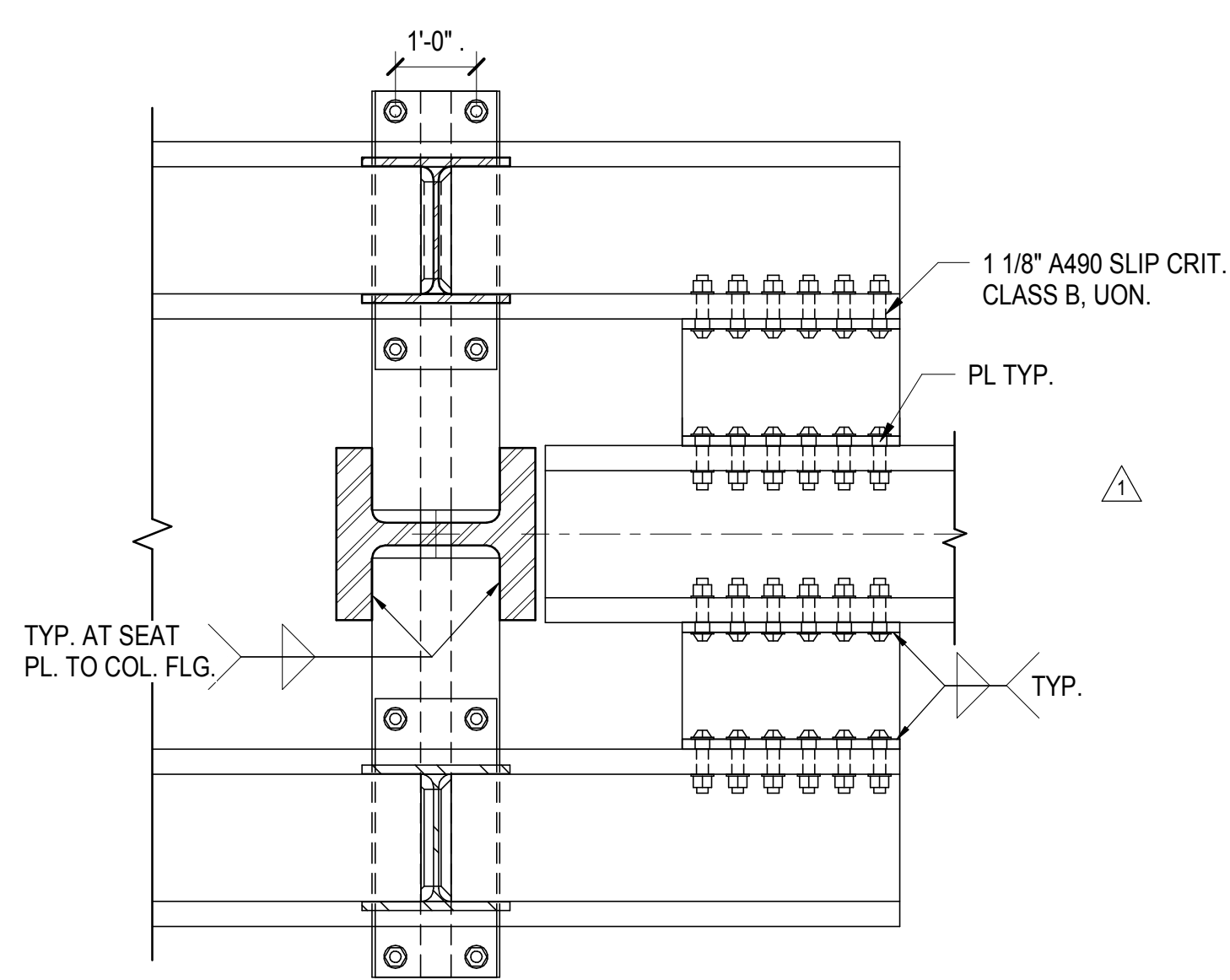
**5 SECTION AT DOUBLE TRUSS VERTICAL AT COLUMN ABOVE**  
3/4" = 1'-0"



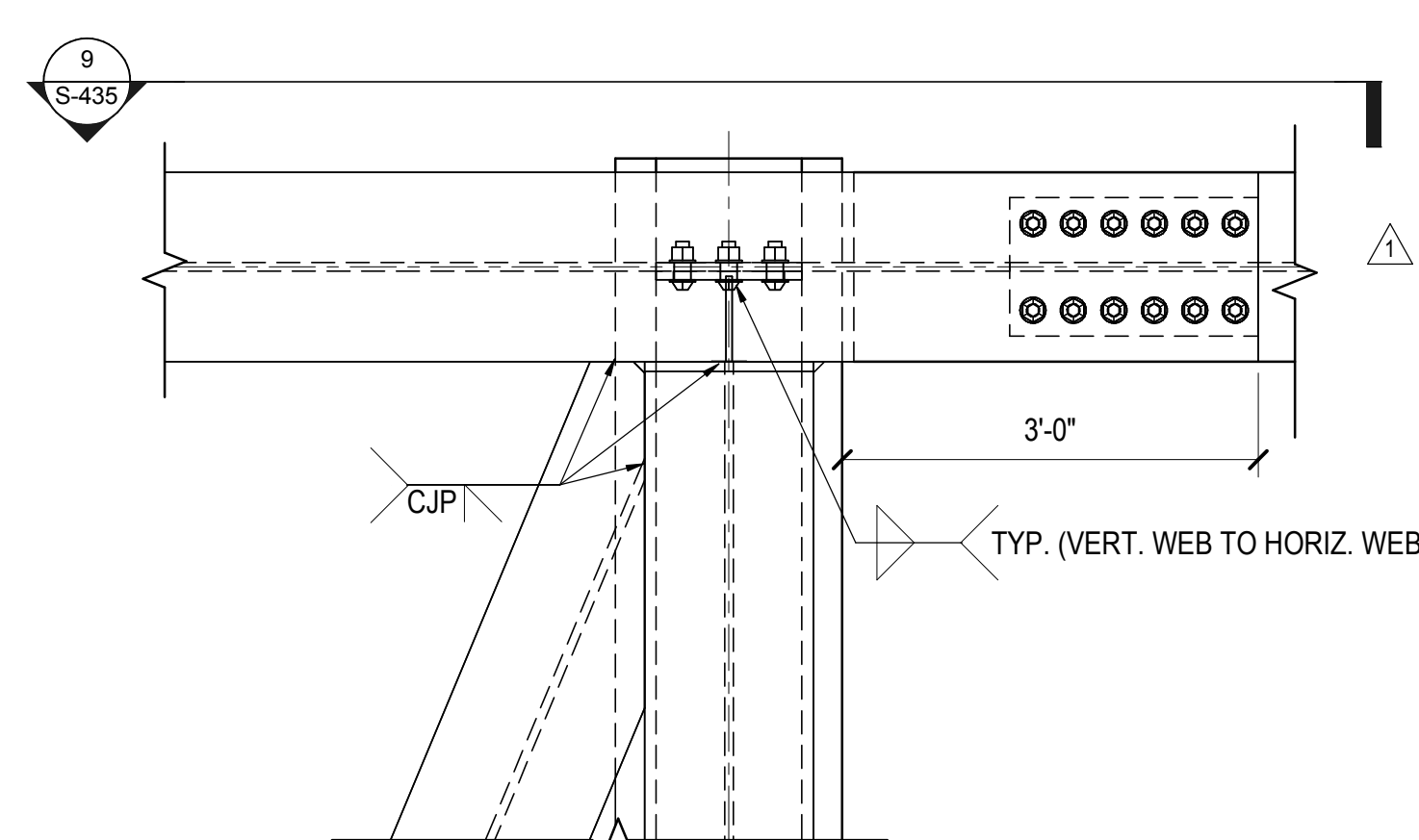
**6 DOUBLE TRUSS SUPPORT WING PLATES AT BOX COLUMN**  
3/4" = 1'-0"



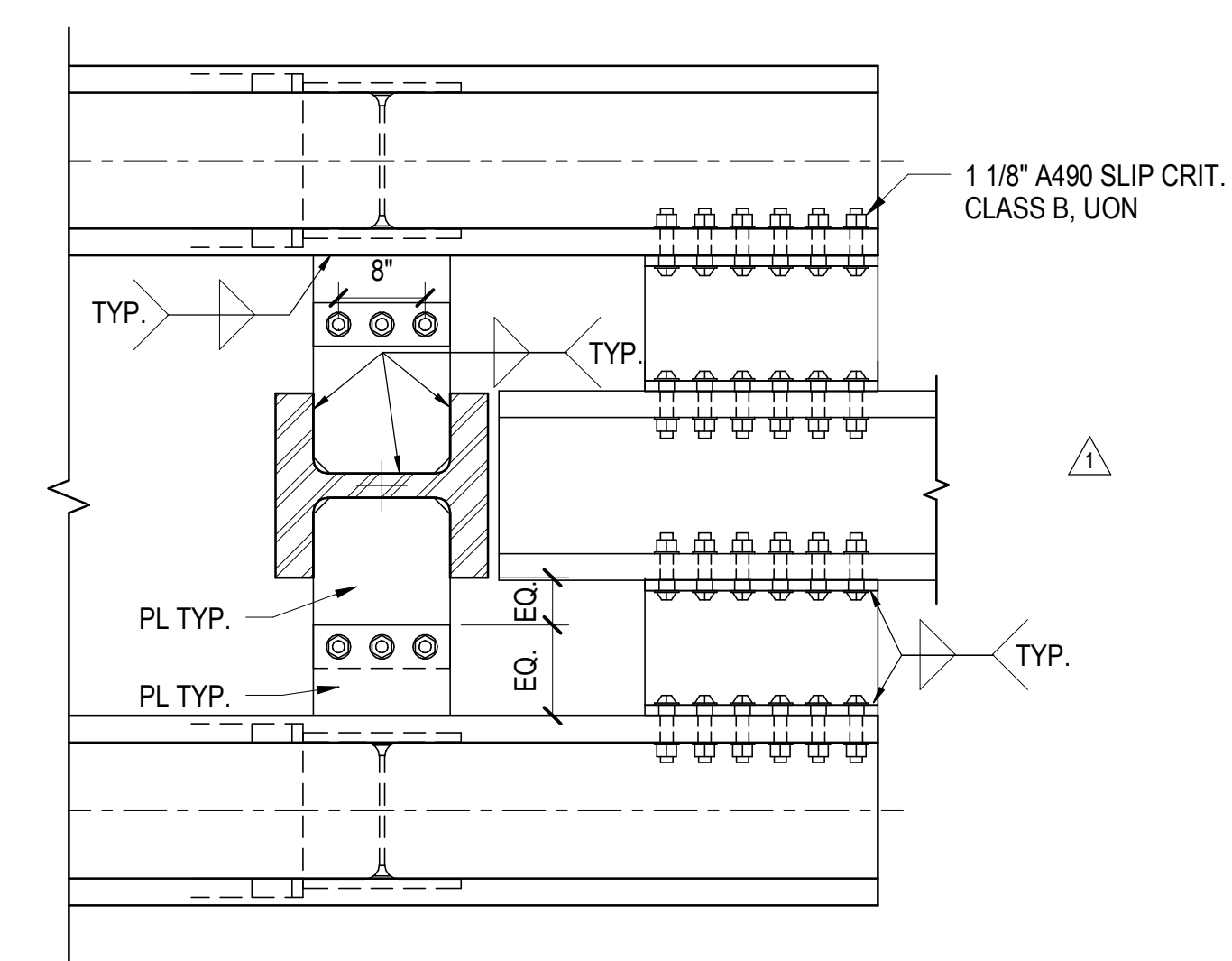
**7 DOUBLE TRUSS BOTTOM CHORD NODE TRANSFER BEAM**  
3/4" = 1'-0"



**8 SECTION AT DOUBLE TRUSS BOTTOM CHORD NODE TRANSFER BEAM**  
3/4" = 1'-0"



**9 DOUBLE TRUSS TOP CHORD NOED TRANSFER BEAM**  
3/4" = 1'-0"



**10 SECTION AT DOUBLE TRUSS TOP CHORD TRANSFER BEAM CONNECTION**  
3/4" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
MdL - PLATFORM SUBMISSION	
A. DE-0 PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
A. DE-0 PHASE 1 STRUCTURE UPDATE	9/20/2013
Rev	Description

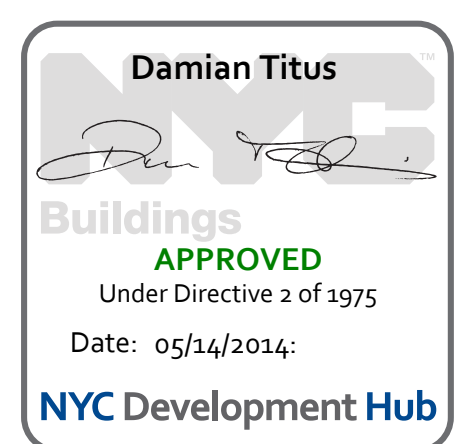
Rev. Plan

Date: 08/09/13  
Project No: N11330.00  
Drawn By: Author  
Check Number: Author

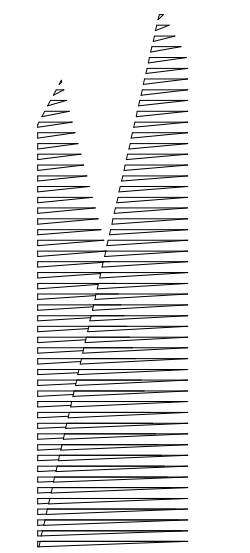
**HYE - PL - S-435.00**  
TRUSS CONNECTION  
DETAILS

Drawing Number / BSC/AS Drawing Number  
**S-435.00**

SHEET 134 OF 201







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Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

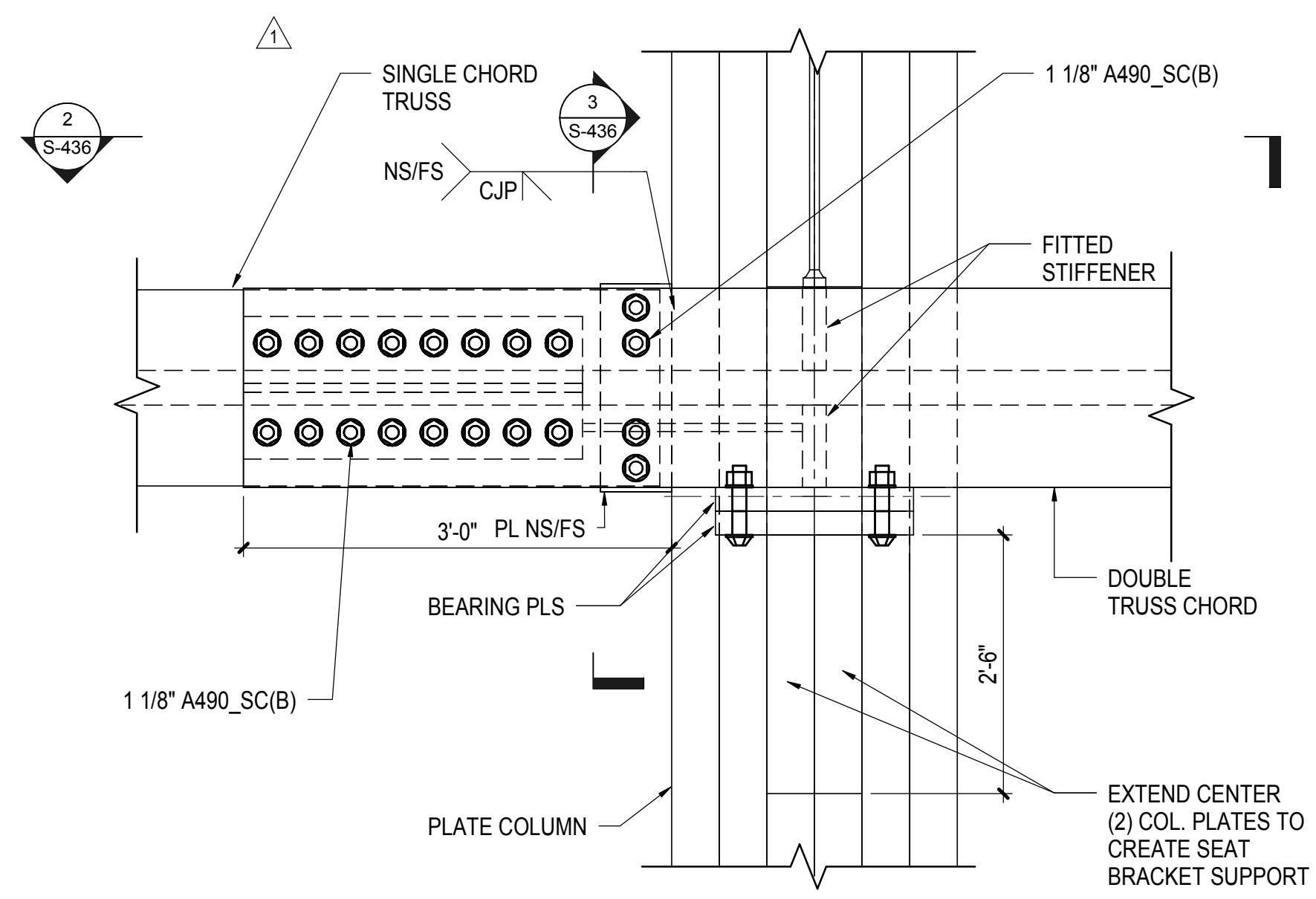
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
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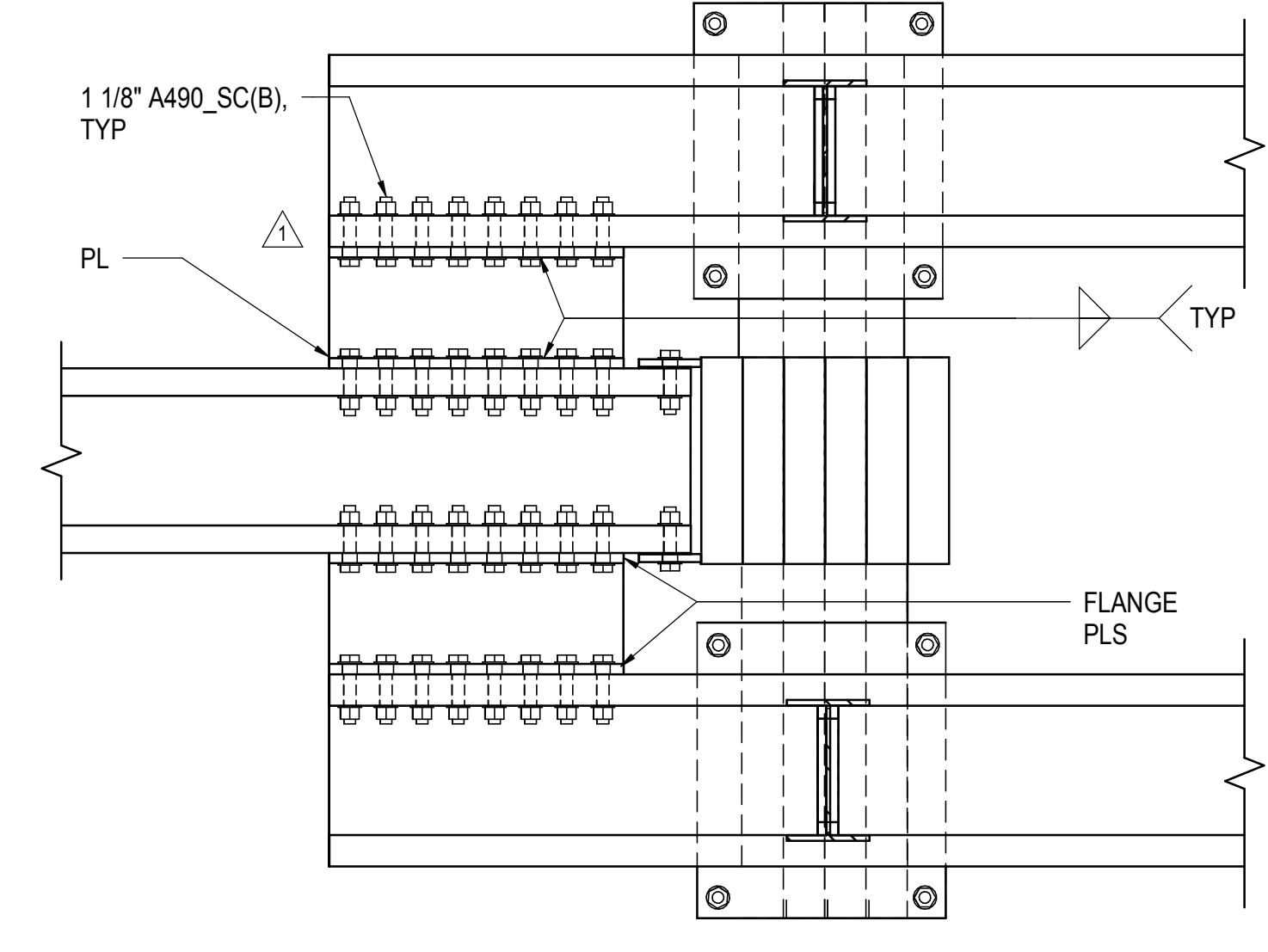
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Substation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
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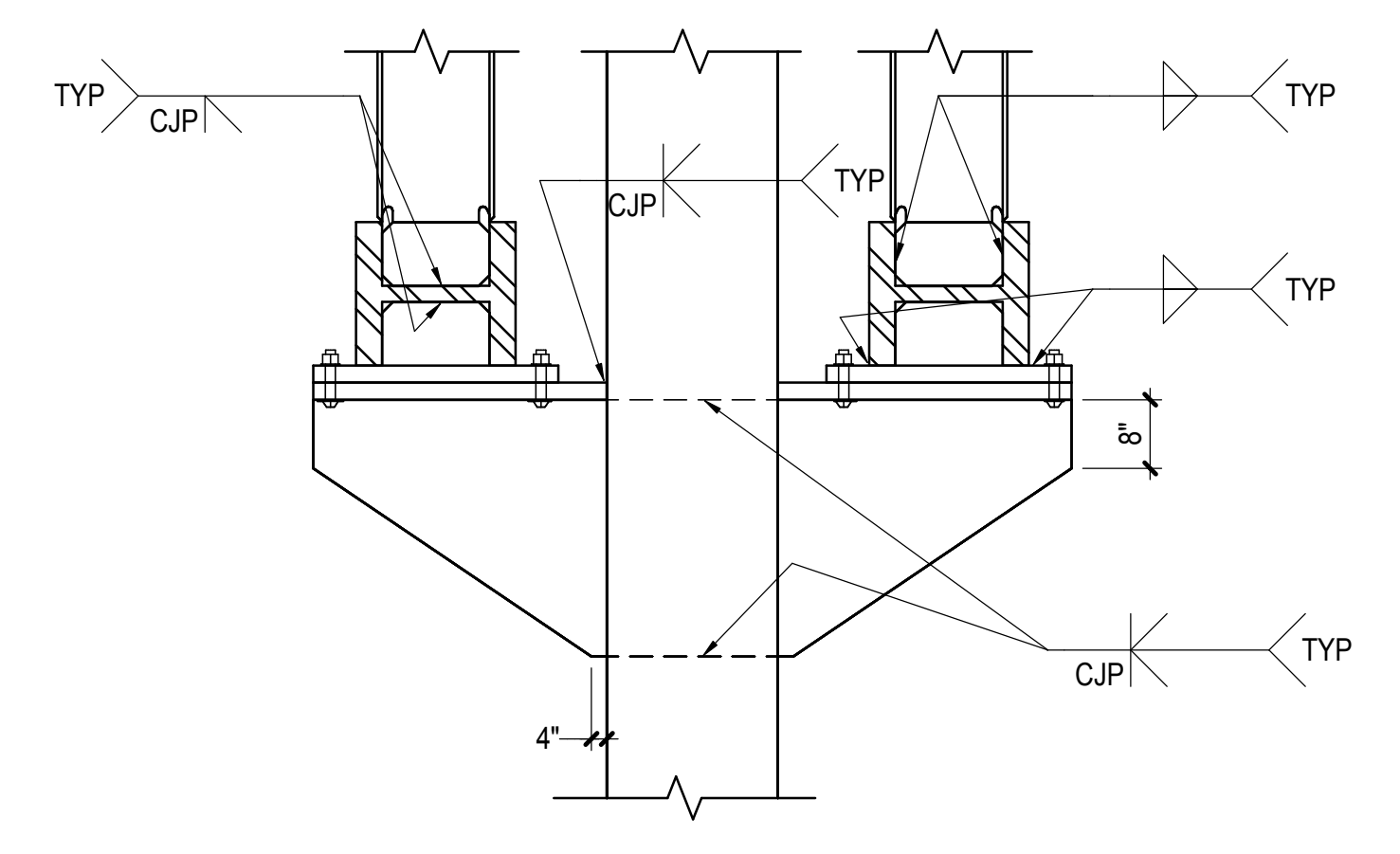
LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



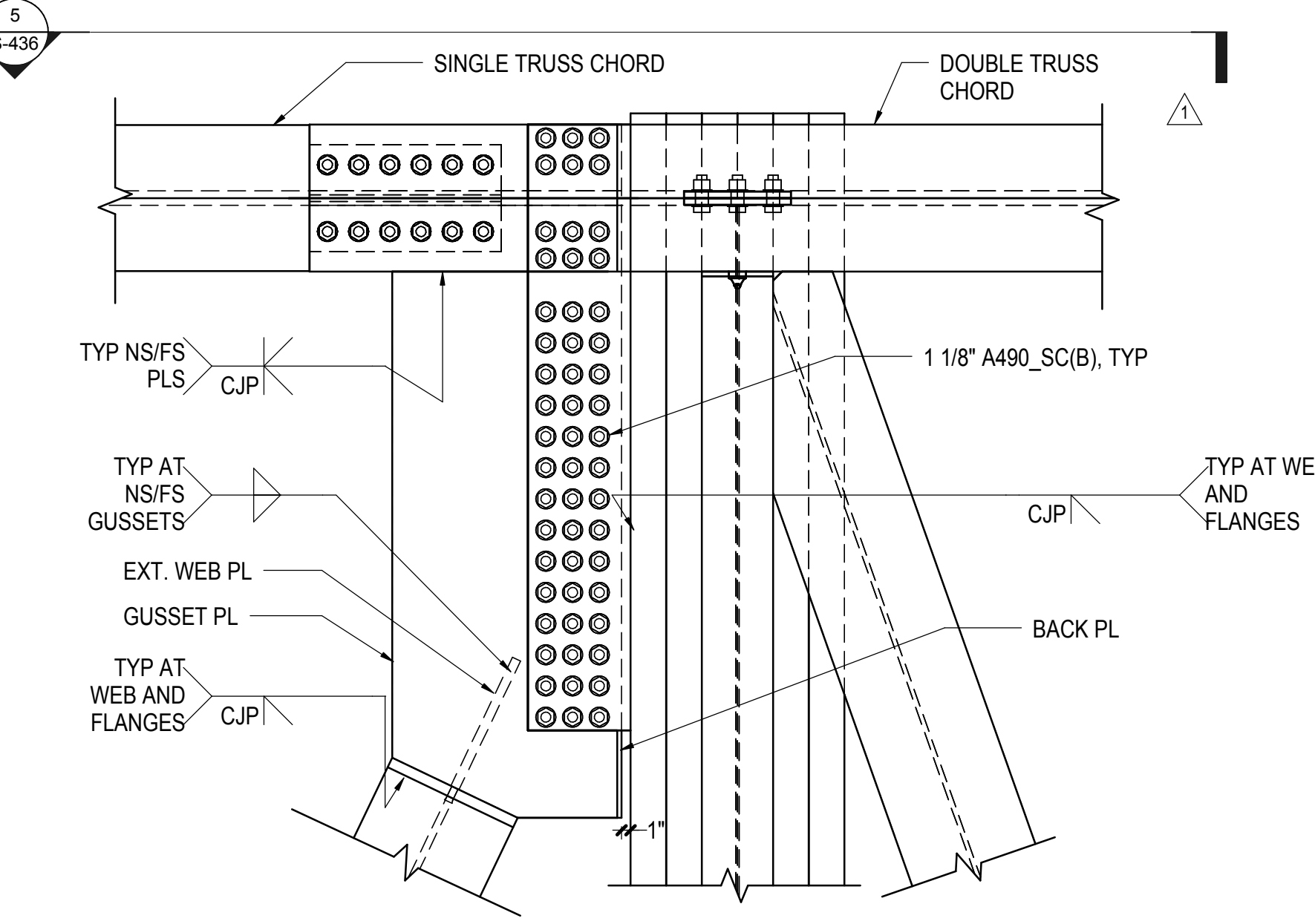
**1** **BOTTOM CHORD TRUSS DETAIL AT CONNECTION TO BOX COLUMN**  
1" = 1'-0"



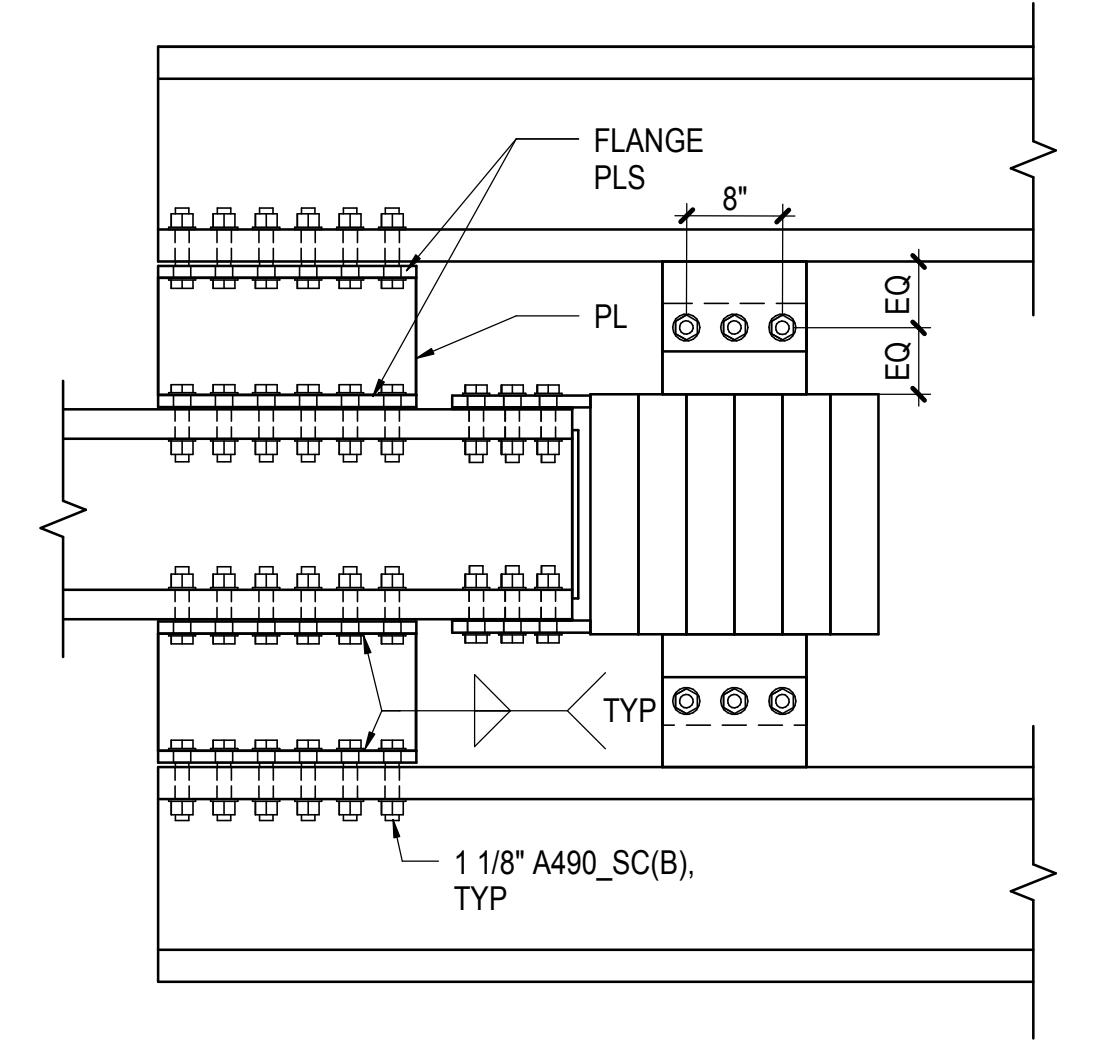
**2** **SECTION AT BOTTOM CHORD TRUSS CONNECTION TO BOX COLUMN**  
3/4" = 1'-0"



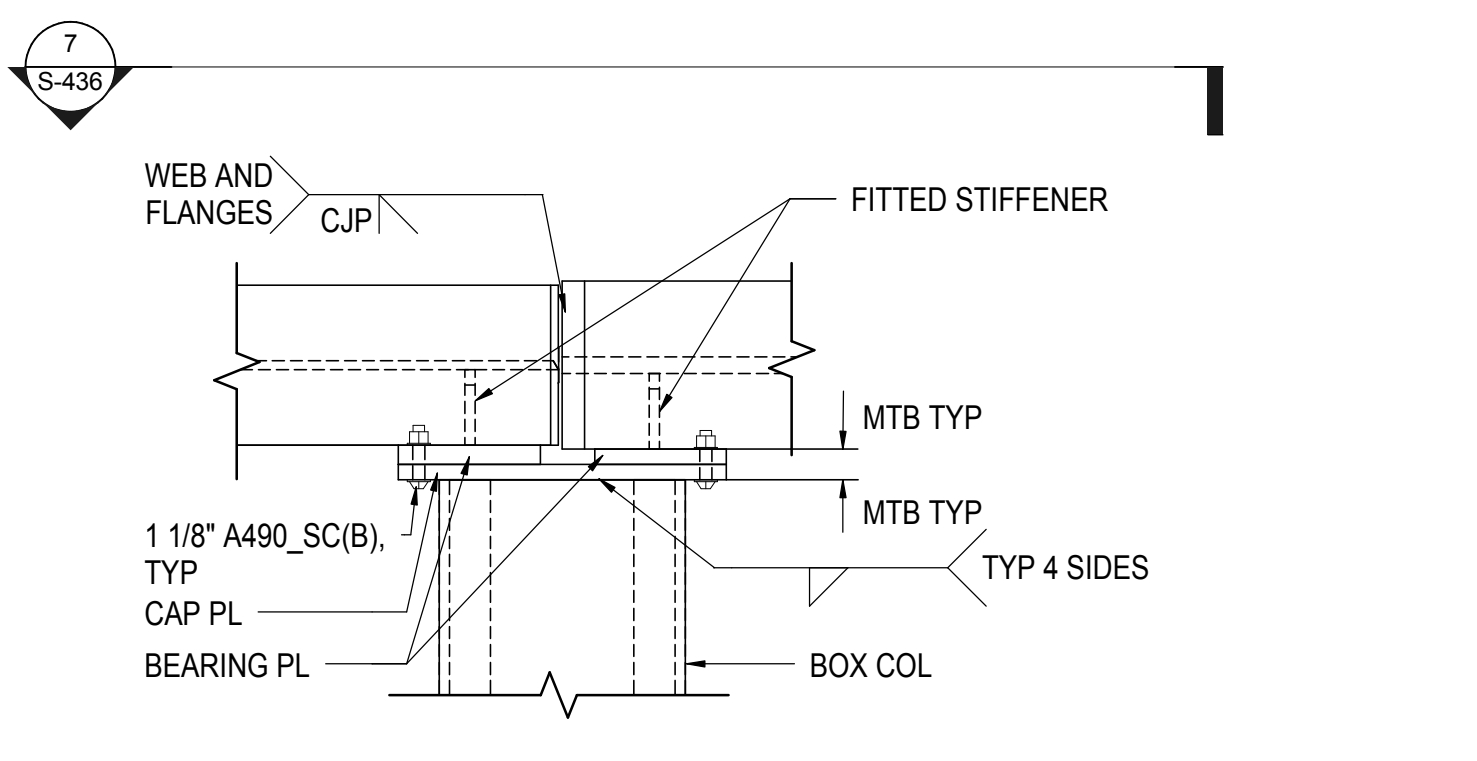
**3** **DOUBLE TRUSS BOX COLUMN SEATED DETAIL**  
3/4" = 1'-0"



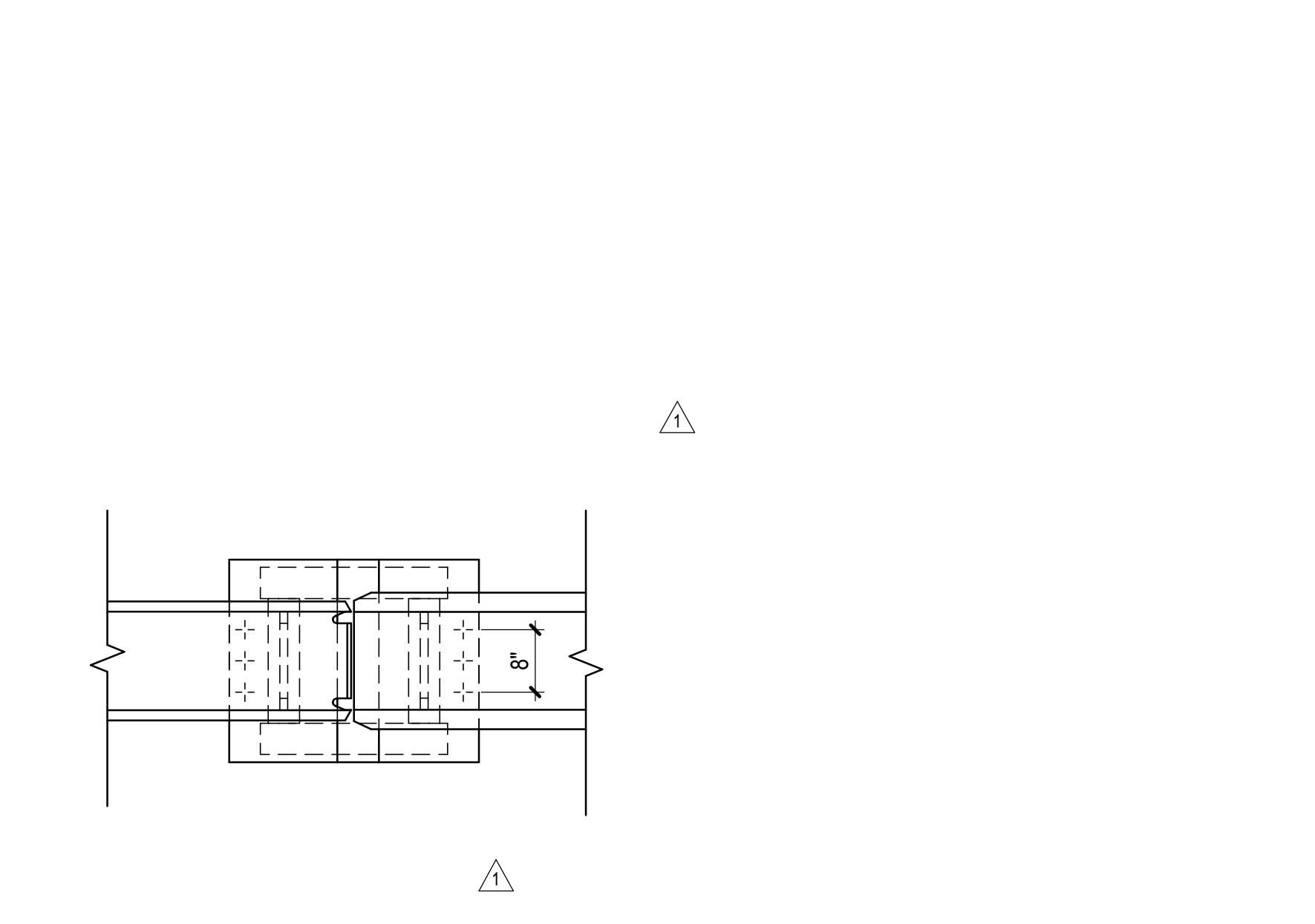
**4** **DETAIL AT COLUMN CORNER NODE BOLTED CONNECTION TO BUILT-UP COLUMN**  
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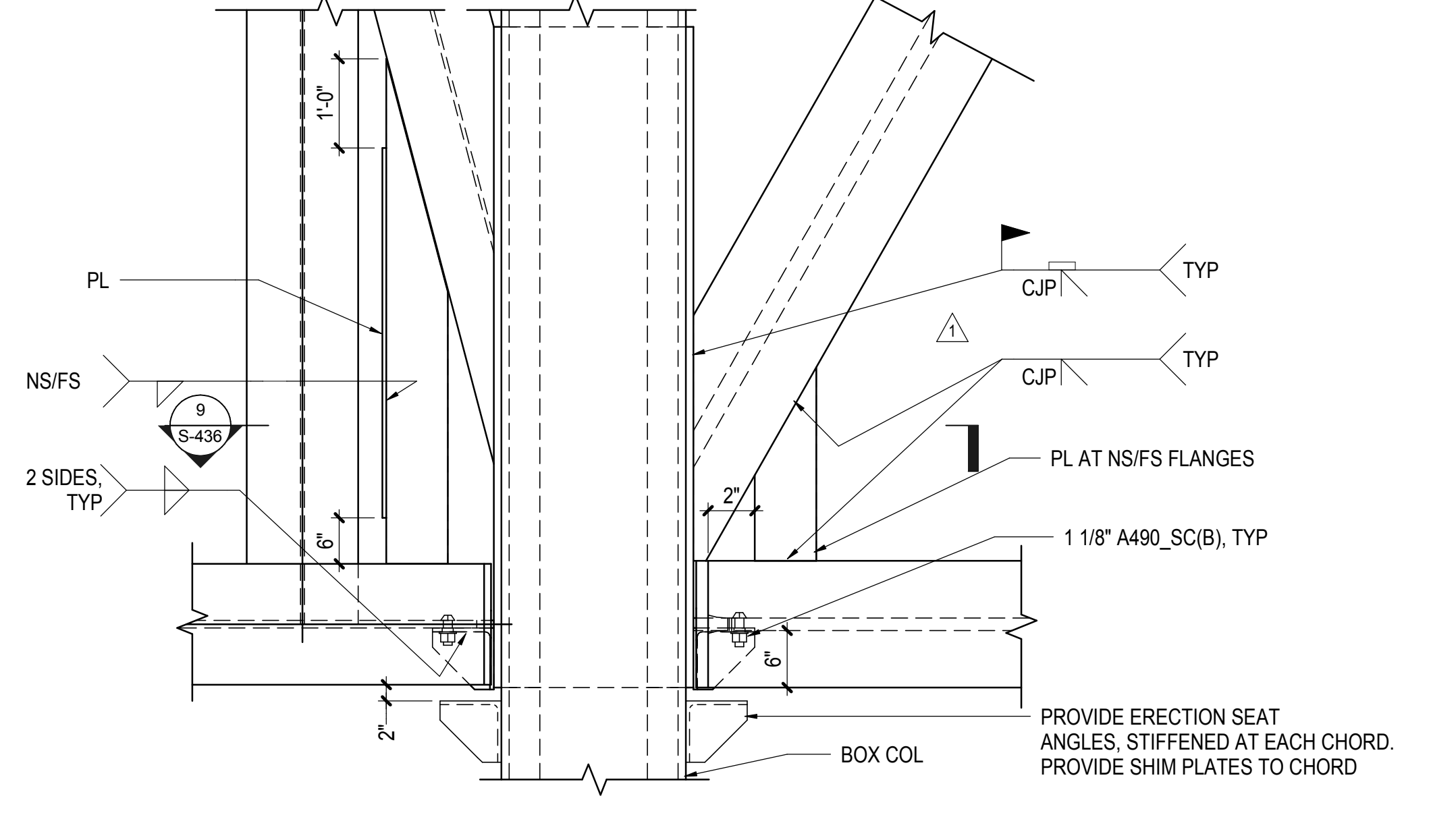
**5** **SECTION AT TOP CHORD TRUSS CONNECTION TO BOX COLUMN**  
3/4" = 1'-0"



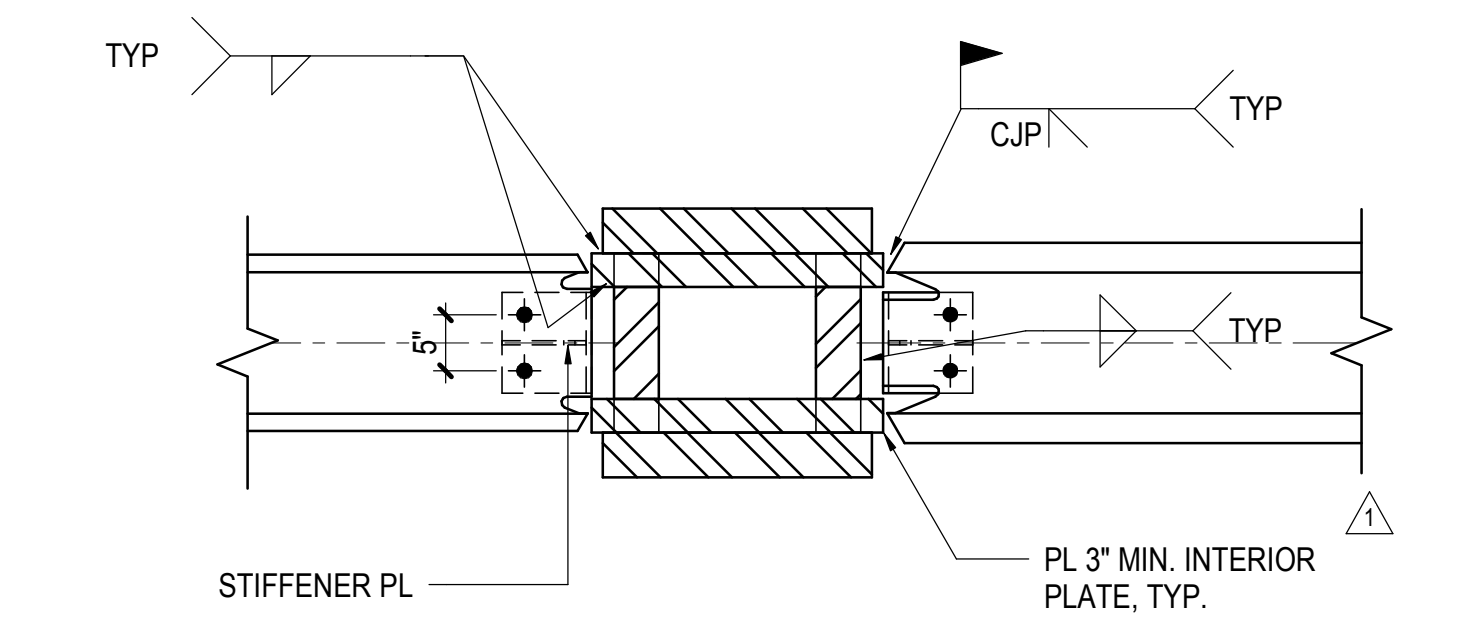
**6** **DETAIL AT TOP CHORD TRUSS SEATED CONNECTION**  
3/4" = 1'-0"



**7** **SECTION AT TOP CHORD TRUSS SEATED CONNECTION**  
3/4" = 1'-0"



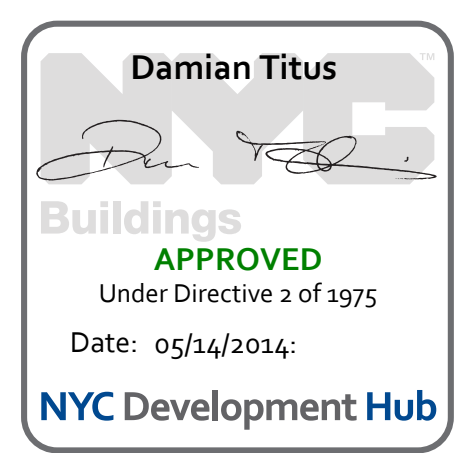
**8** **DETAIL AT BOTTOM CHORD TRUSS SEATED CONNECTION**  
3/4" = 1'-0"



**9** **SECTION AT BOTTOM CHORD TRUSS SEATED CONNECTION**  
1" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
Mod. - PLATFORM SUBMISSION	
A. DR-0 PHASE 1 STRUCTURAL UPDATE	11/11/2013
NYC DOB FILING	10/4/2013
A. DR-0 PHASE 1 STRUCTURE UPDATE	9/20/2013
Rev	Description

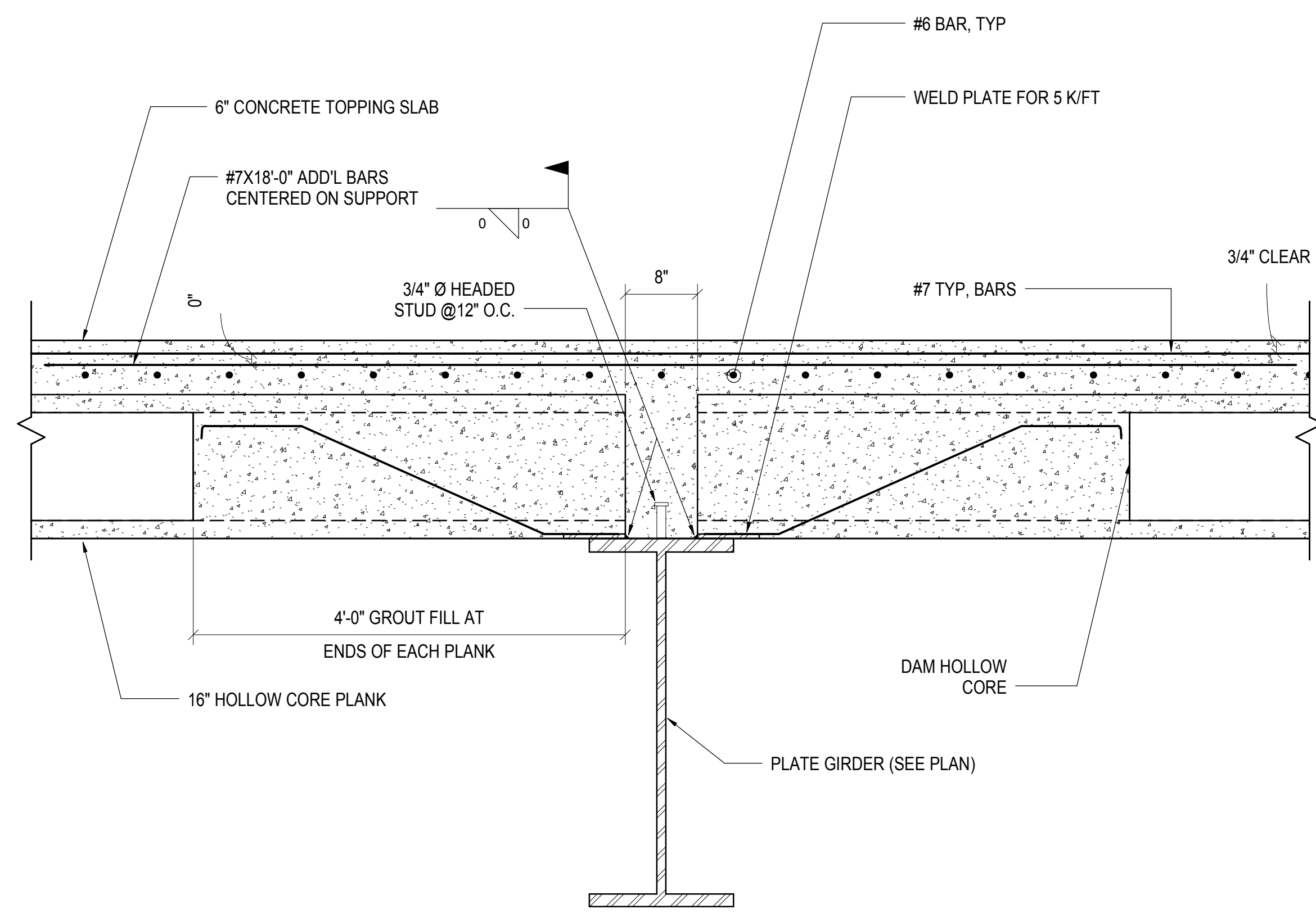
Rev. Plan



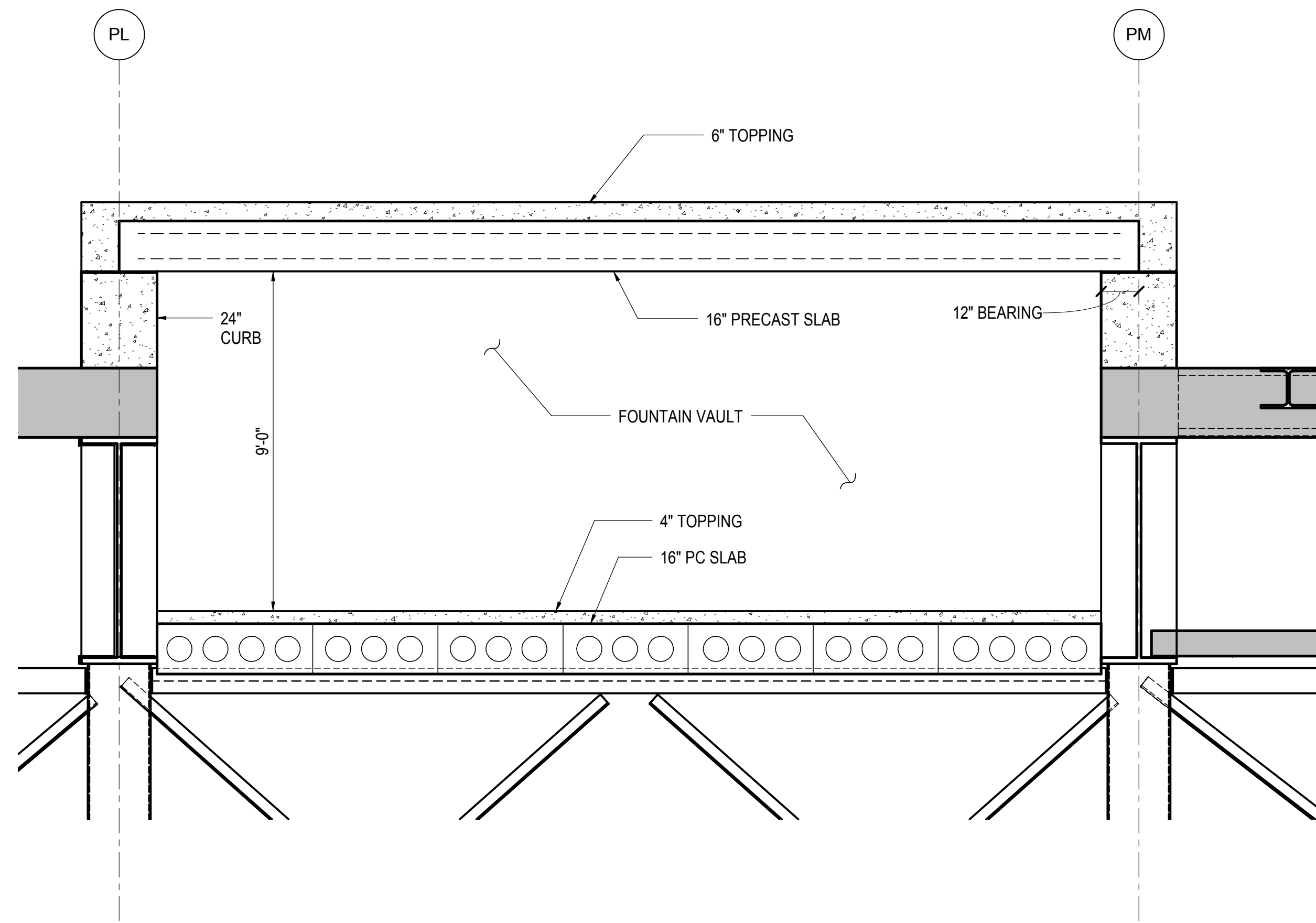
Date: 08/09/13  
Project No: N11330.00  
Author: Author  
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**HYE - PL - S-436.00**  
**TRUSS CONNECTION**  
**DETAILS**

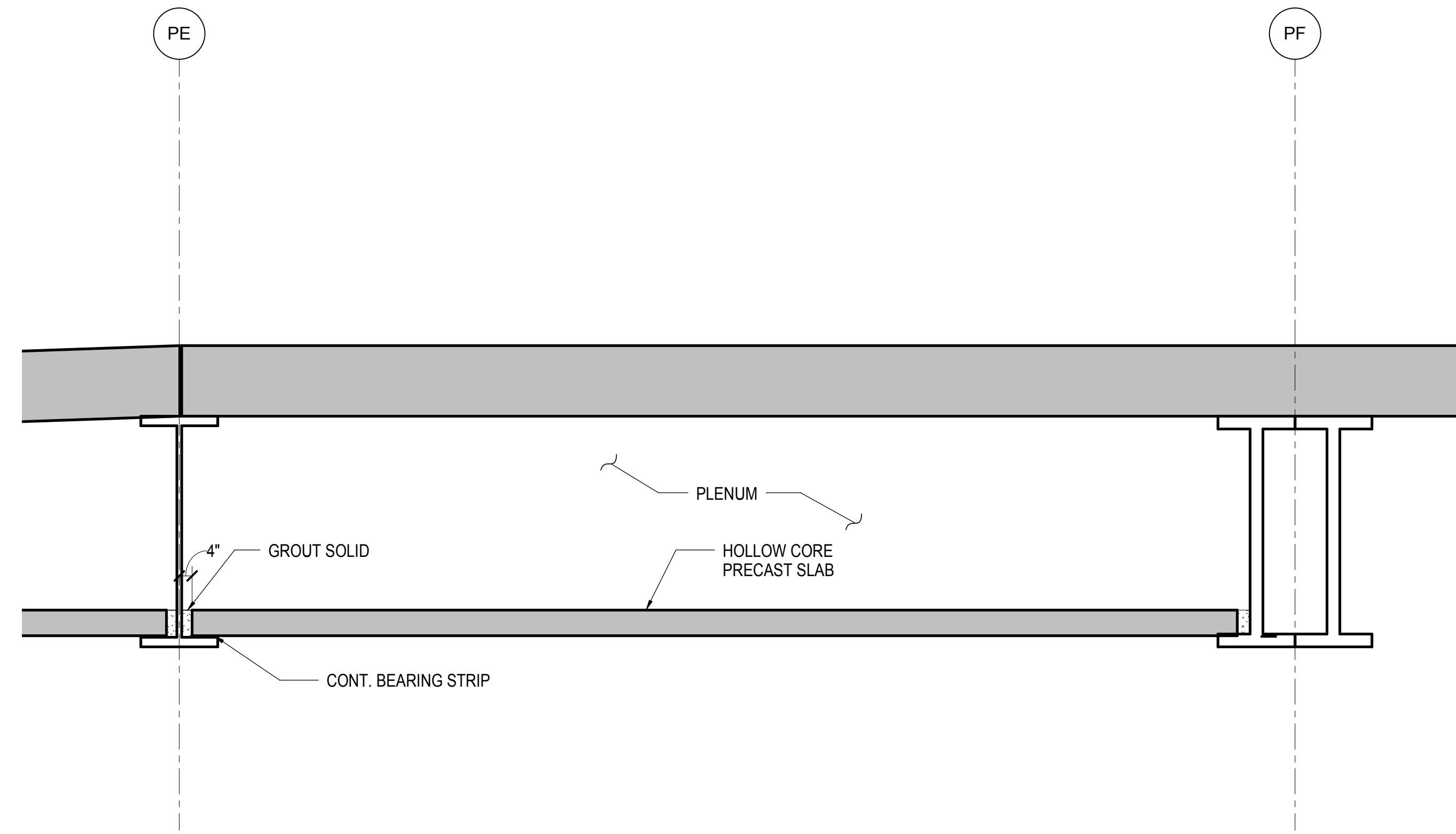




1 TYPICAL PRECAST PLANK SUPPORT DETAIL  
1" = 1'-0"



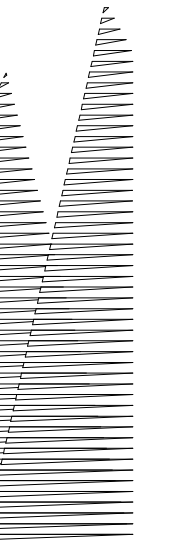
2 FOUNTAIN VAULT  
3/8" = 1'-0"



3 PLENUM SECTION  
3/8" = 1'-0"

**HUDSON YARDS PLATFORM**

Address  
530 WEST 33RD STREET  
NEW YORK, NY



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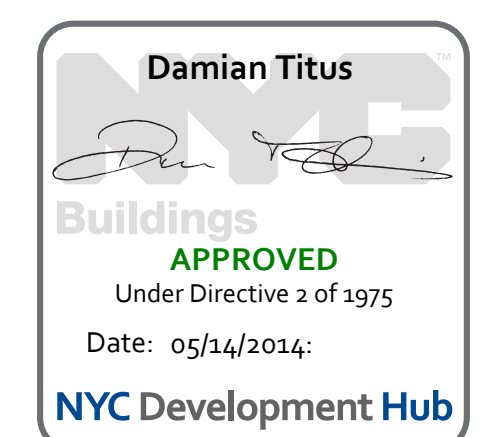
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Fire Alarm, Fire Protection, Security  
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No.	Description	Date
NYC DOB FILING	100%	12/4/2013
L.I.R.R. - PRE-FINAL	100%	11/22/2013
M&T - PLATFORM SUBMISSION		
Δ D1-D2 PHASE 1 STRUCTURAL UPDATE		1/1/2013
NYC DOB FILING		10/4/2013
Δ D1-D2 PHASE 1 STRUCTURE UPDATE		9/20/2013
L.I.R.R. - 90% SUBMISSION		8/09/2013
NYC DOB FILING		6/17/2013
L.I.R.R. - 60% SUBMISSION		5/29/2013
L.I.R.R. - 60% - PHASE 1 FDNS		3/29/2013
L.I.R.R. - 30% SUBMISSION		2/15/2013

See Plan



Date: 12/14/2012  
Project No: N11330.00  
Drawn By: Author  
Sheet Number:

**HYE -PL -S-501.00**

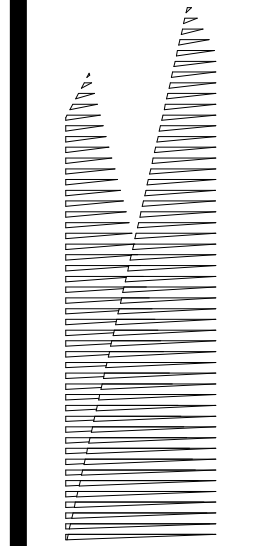
WEST PLATFORM SLAB SECTIONS AND DETAILS

Drawing Number / B/S/CAN Drawing Number  
**S-501.00**

SHEET 136 OF 201

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New York, NY 10017  
Tel: 212.708.3600

Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York, 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
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Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973-9200 Fax: 212.682.6172

No.	Description	Date
1	NYC DOB FILING	12/4/2013
2	LIRR - PRE-FINAL 100%	11/22/2013
3	M&T - PLATFORM SUBMISSION	
4	DR-02 PHASE I STRUCTURAL UPDATE	11/1/2013
5	NYC DOB FILING	10/4/2013
6	DR-01 PHASE I STRUCTURE UPDATE	9/20/2013
7	LIRR - 90% SUBMISSION	8/09/2013
8	NYC DOB FILING	6/17/2013
9	LIRR - 60% SUBMISSION	5/29/2013
10	LIRR - 60% - PHASE I FDSN	3/29/2013
11	LIRR - 30% SUBMISSION	2/15/2013

Exp Plan

Date: 12/14/2012

Project No: N11330.00

Author

Plot Number

HYE - PL - S-503.00

Drawing Title

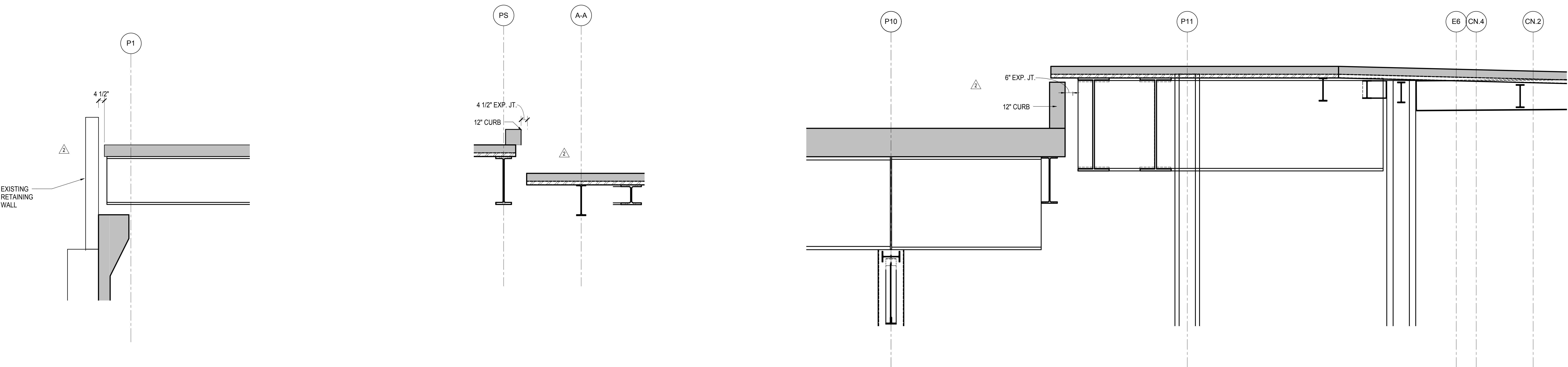
**EXPANSION JOINT DETAILS I**

Drawing Number / Revision Drawing Number

S-503.00

SHEET 137 OF 201

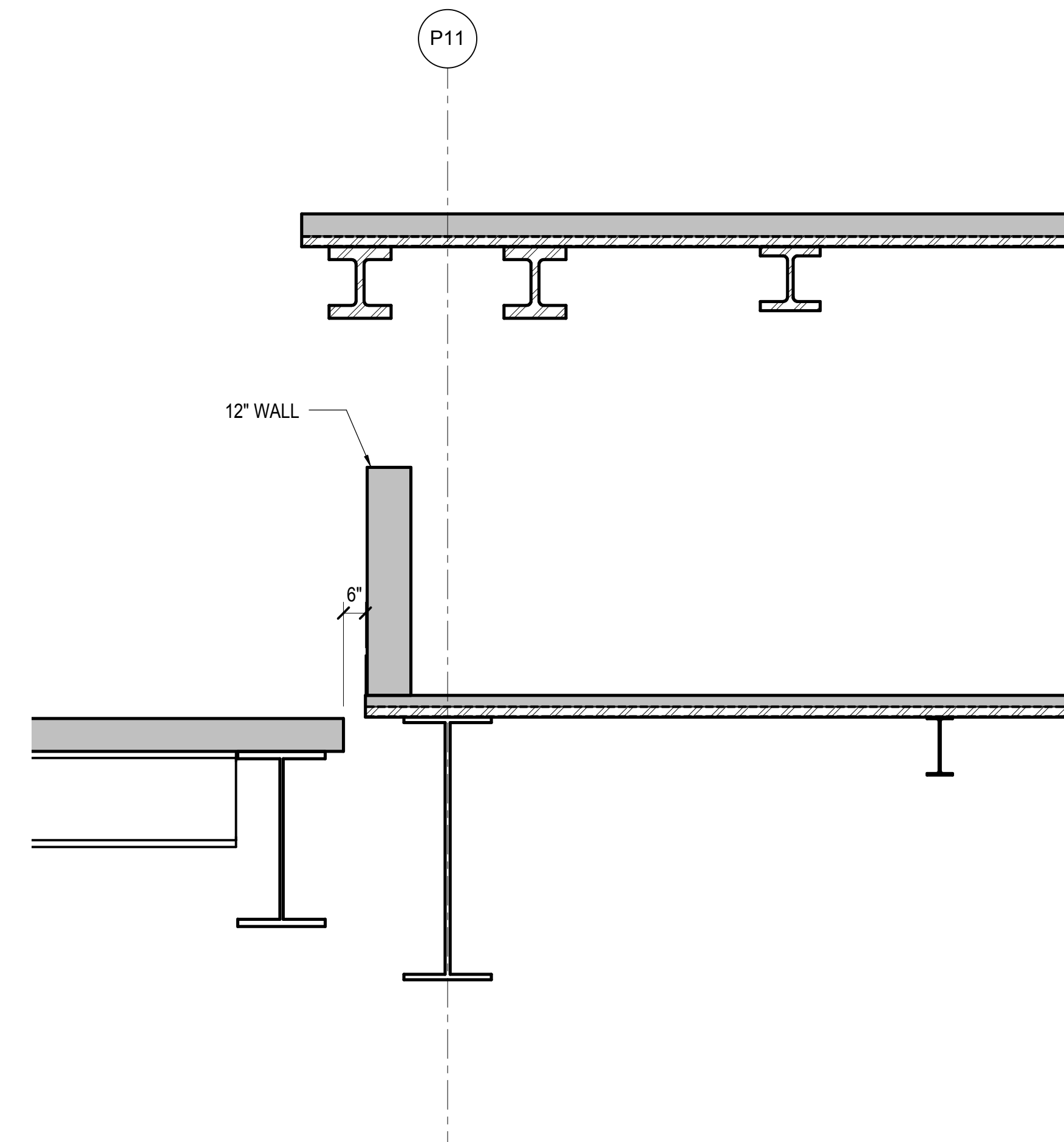
© 2012 KOHN PEDERSEN FOX ASSOCIATES PC. All rights reserved.



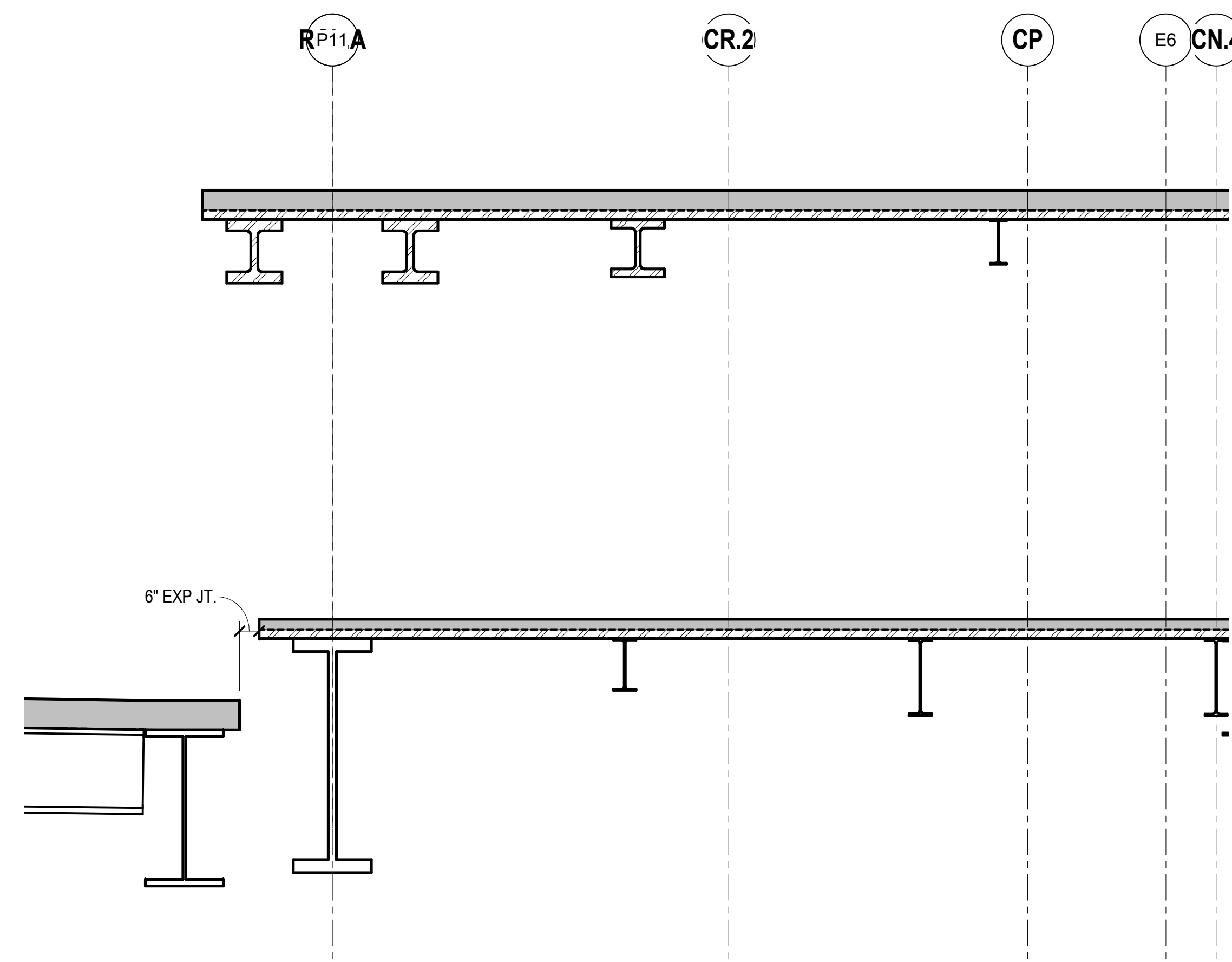
1 EXPANSION JOINT DETAIL AT 33RD STREET  
3/8" = 1'-0"

2 EXPANSION JOINT DETAIL AT HUDSON BLVD  
3/8" = 1'-0"

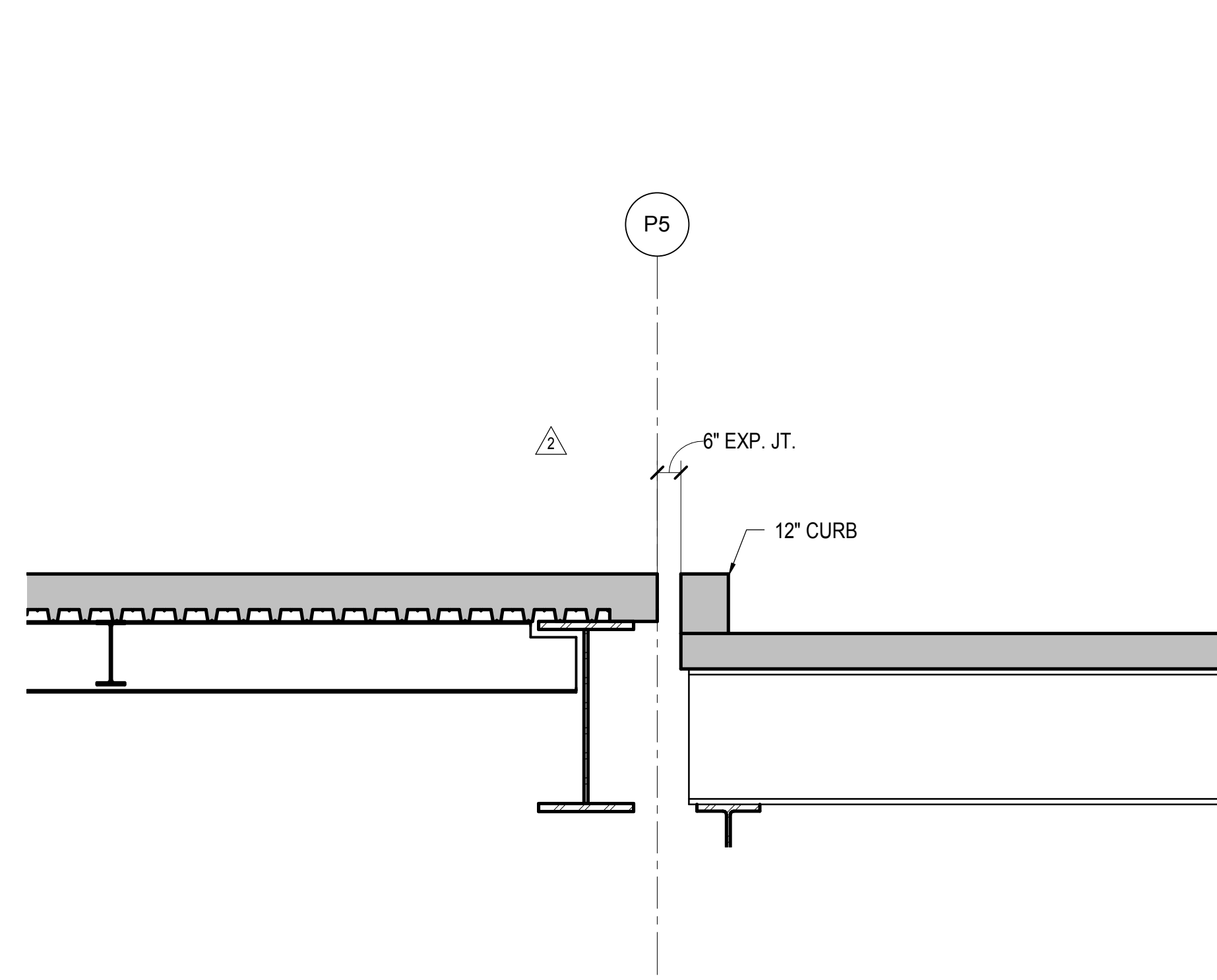
3 EXPANSION JOINT DETAIL AT TOWER C SLAB INFILL  
3/8" = 1'-0"



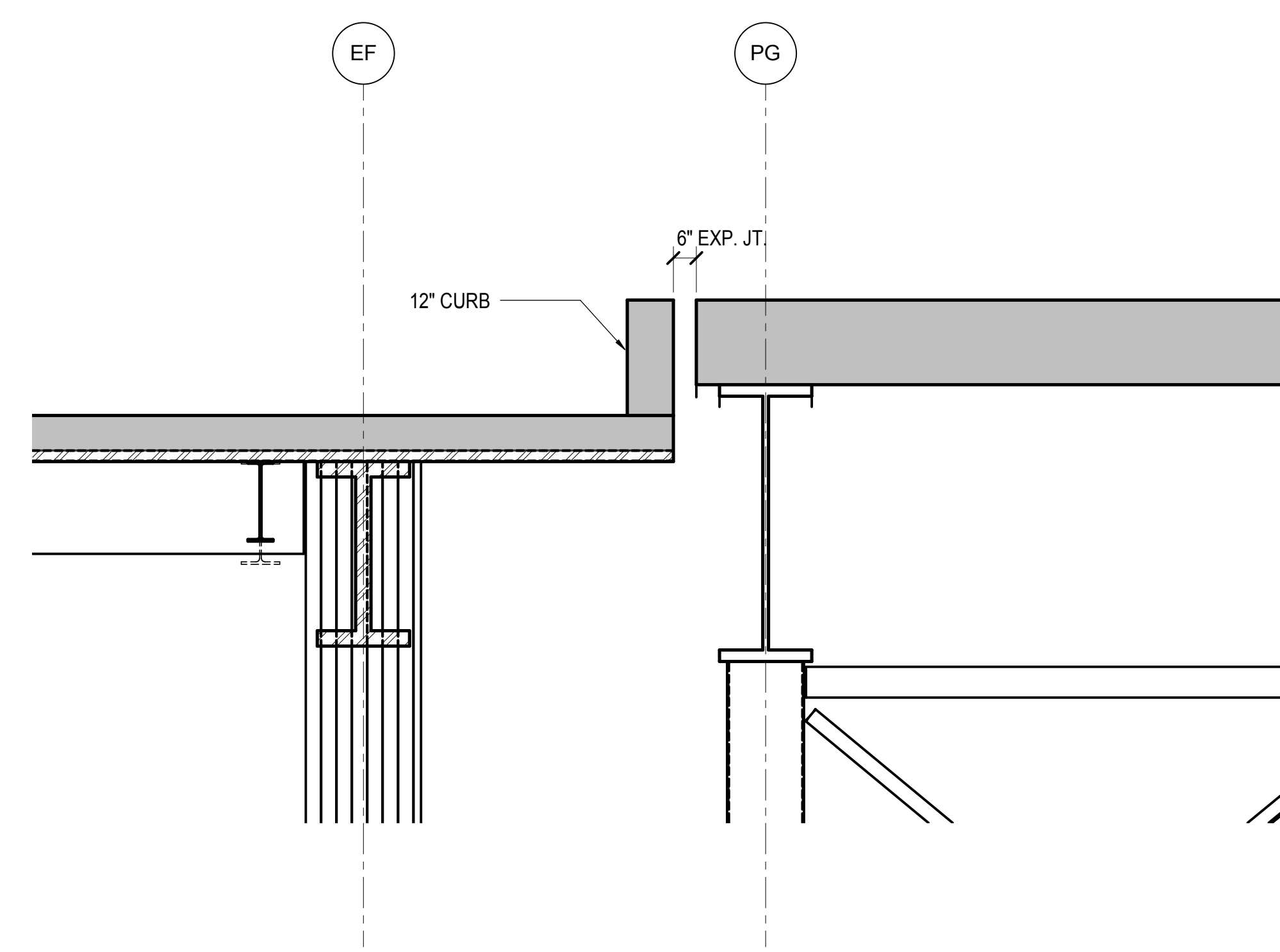
4 EXPANSION JOINT DETAIL AT TOWER C SLAB INFILL  
3/8" = 1'-0"



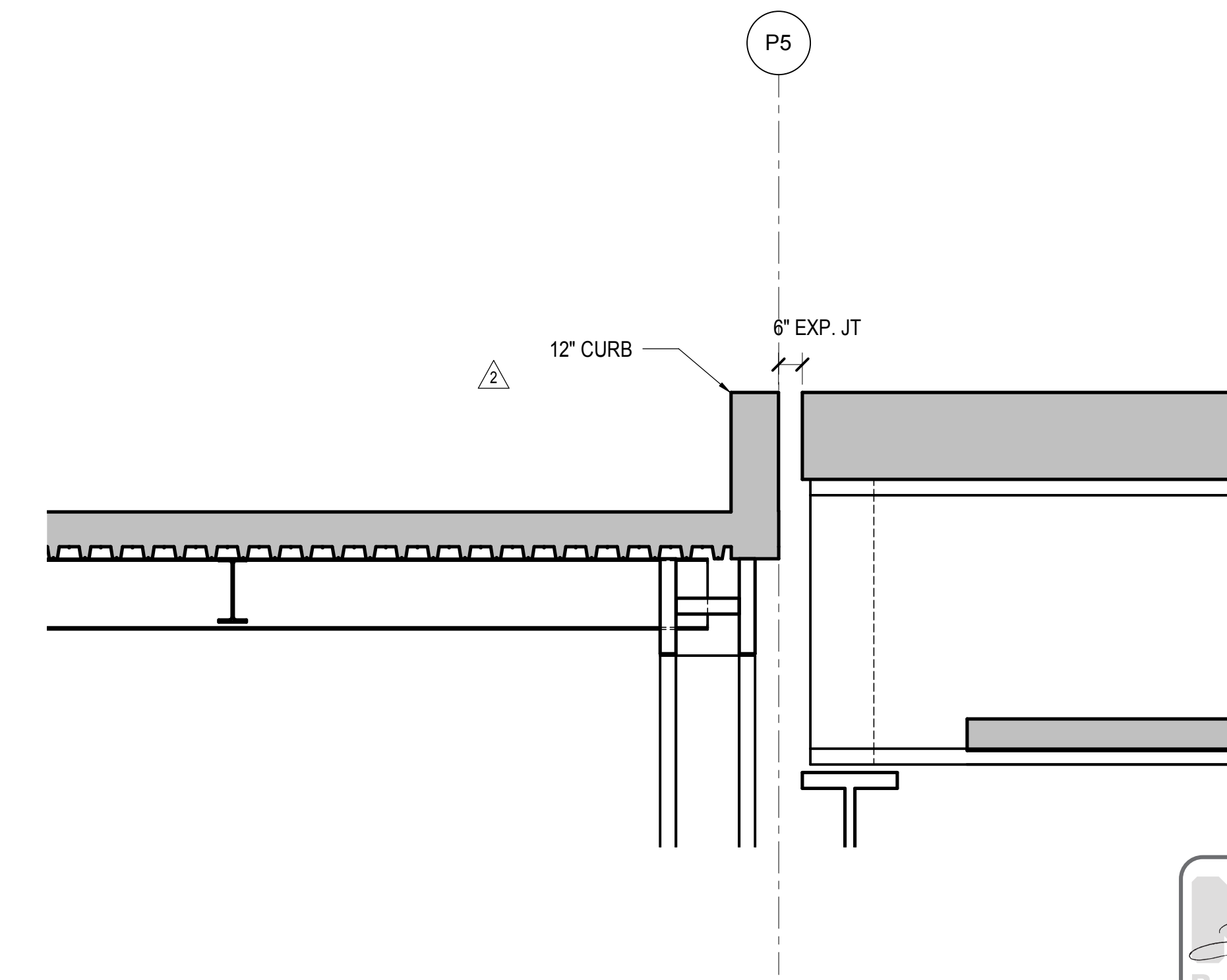
5 EXPANSION JOINT DETAIL AT TOWER C SLAB INFILL  
3/8" = 1'-0"



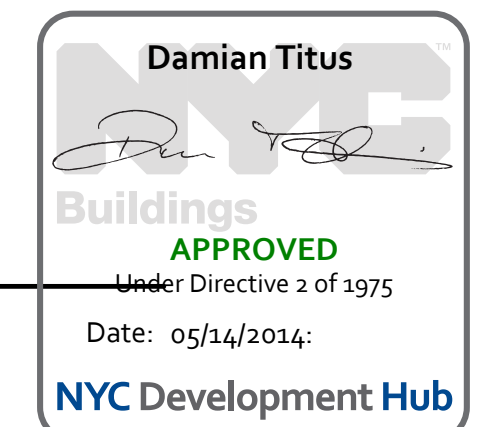
6 EXPANSION JOINT DETAIL AT TOWER E  
3/8" = 1'-0"



7 EXPANSION JOINT DETAIL AT TOWER E  
3/8" = 1'-0"



8 EXPANSION JOINT DETAIL AT TOWER E  
3/8" = 1'-0"



Date: 12/14/2012

Project No: N11330.00

Author

Plot Number

HYE - PL - S-503.00

Drawing Title

**EXPANSION JOINT DETAILS I**

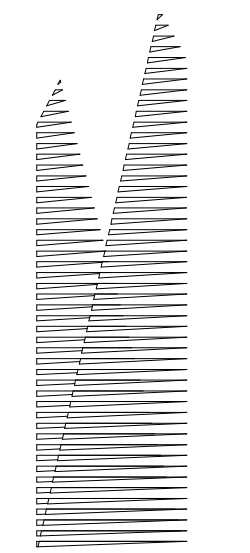
Drawing Number / Revision Drawing Number

S-503.00

SHEET 137 OF 201

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Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Officer Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

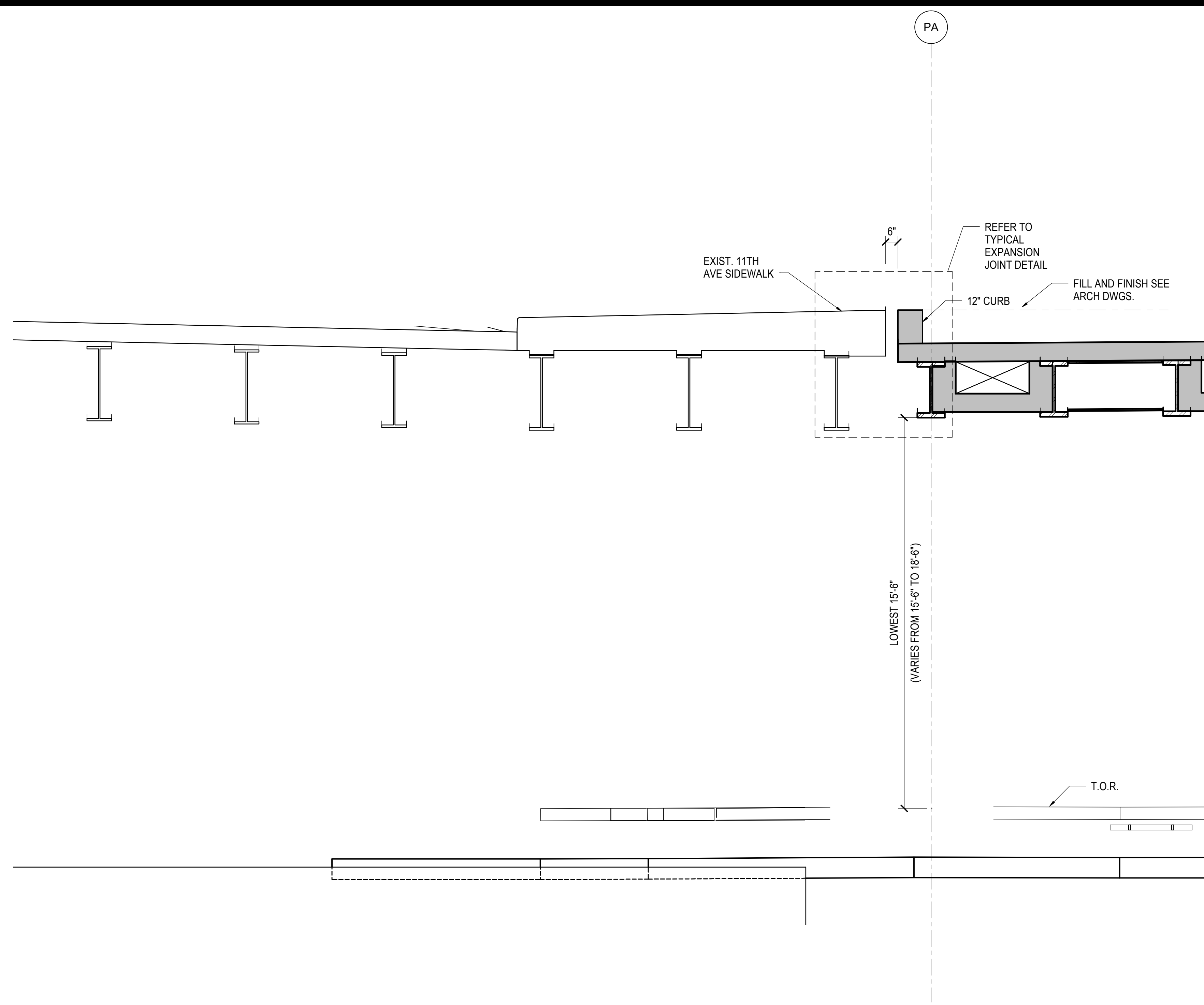
Architect  
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PC Architects & Planning Consultants  
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Structural Engineer  
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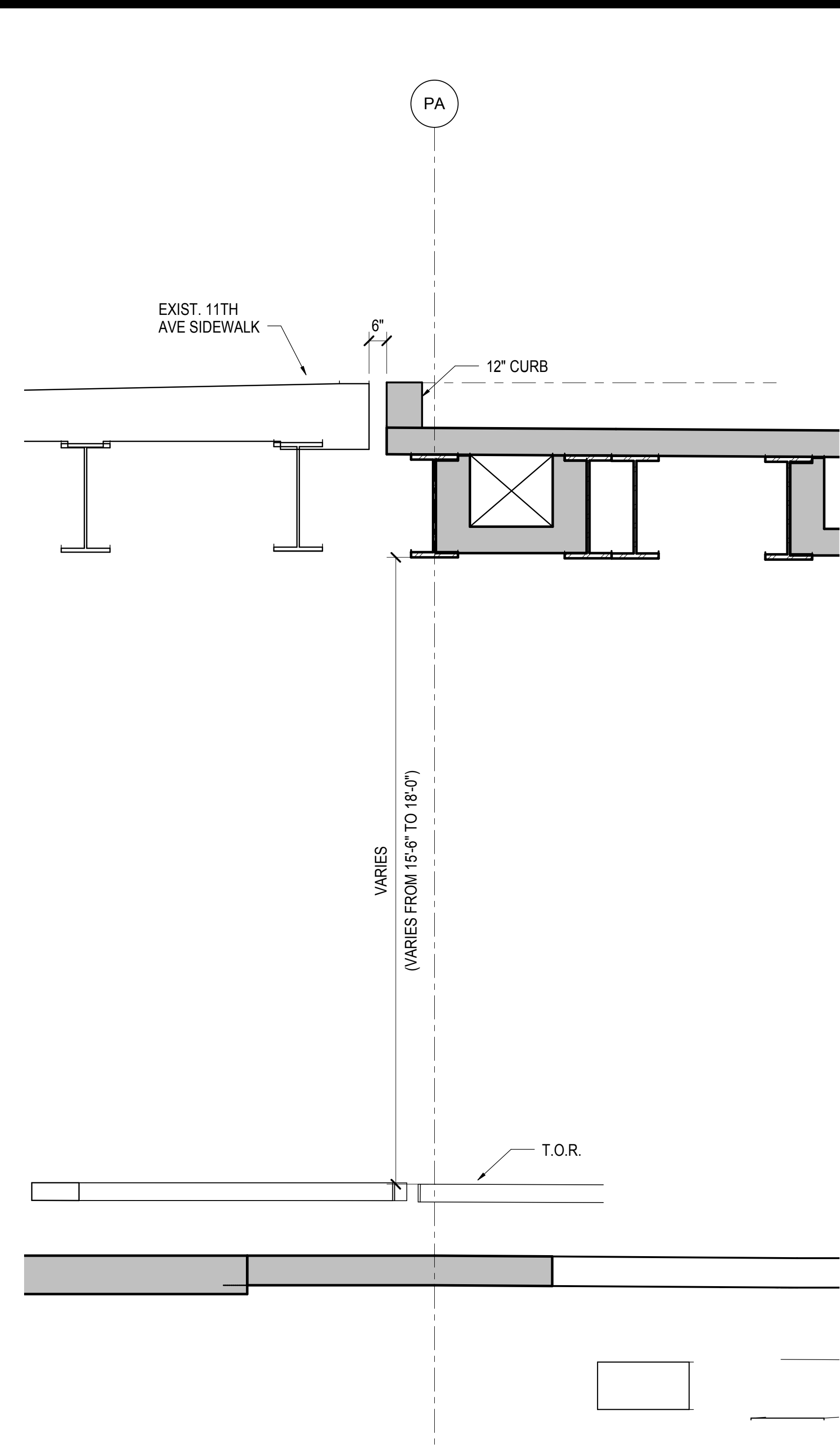
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
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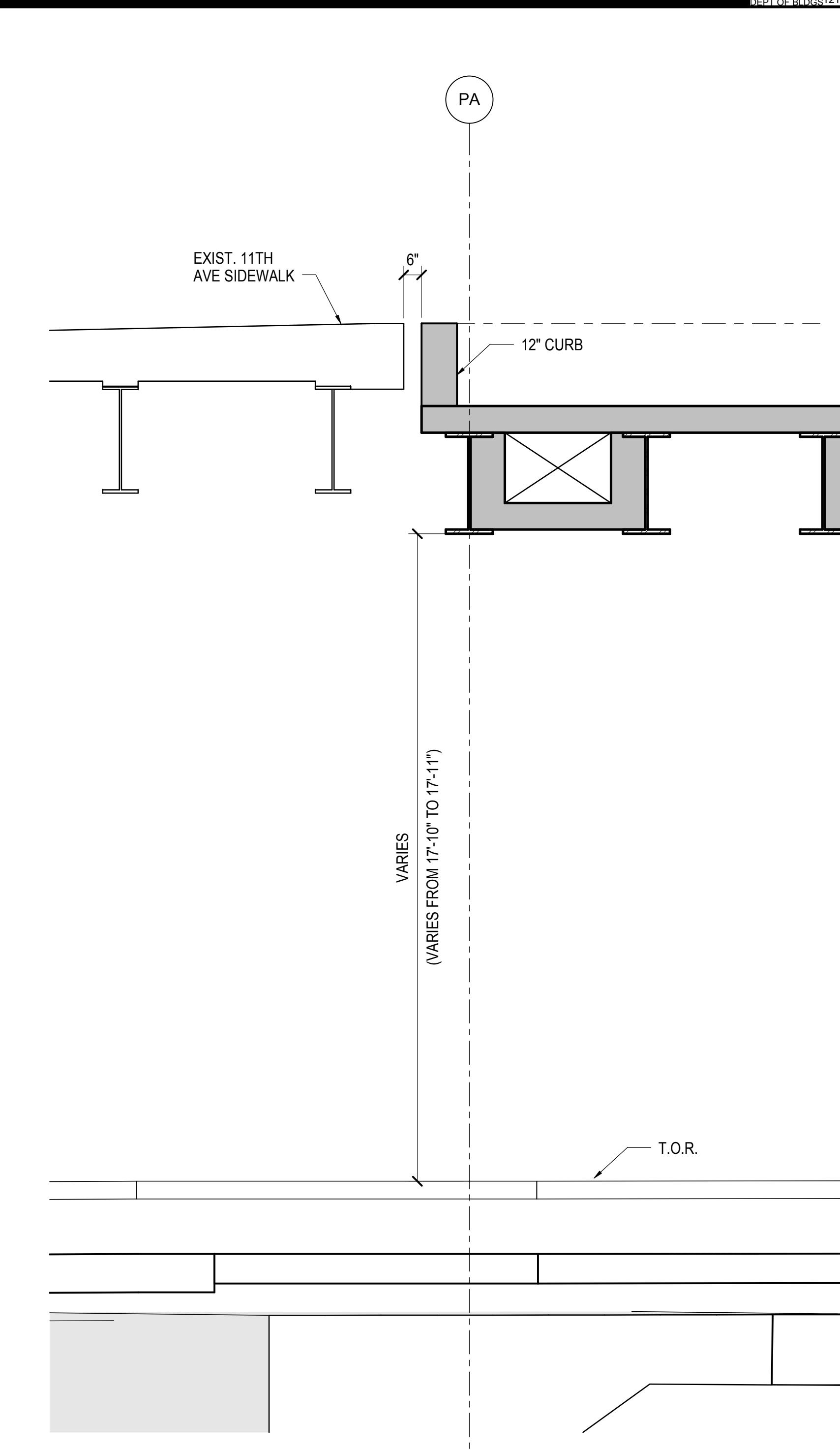
LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



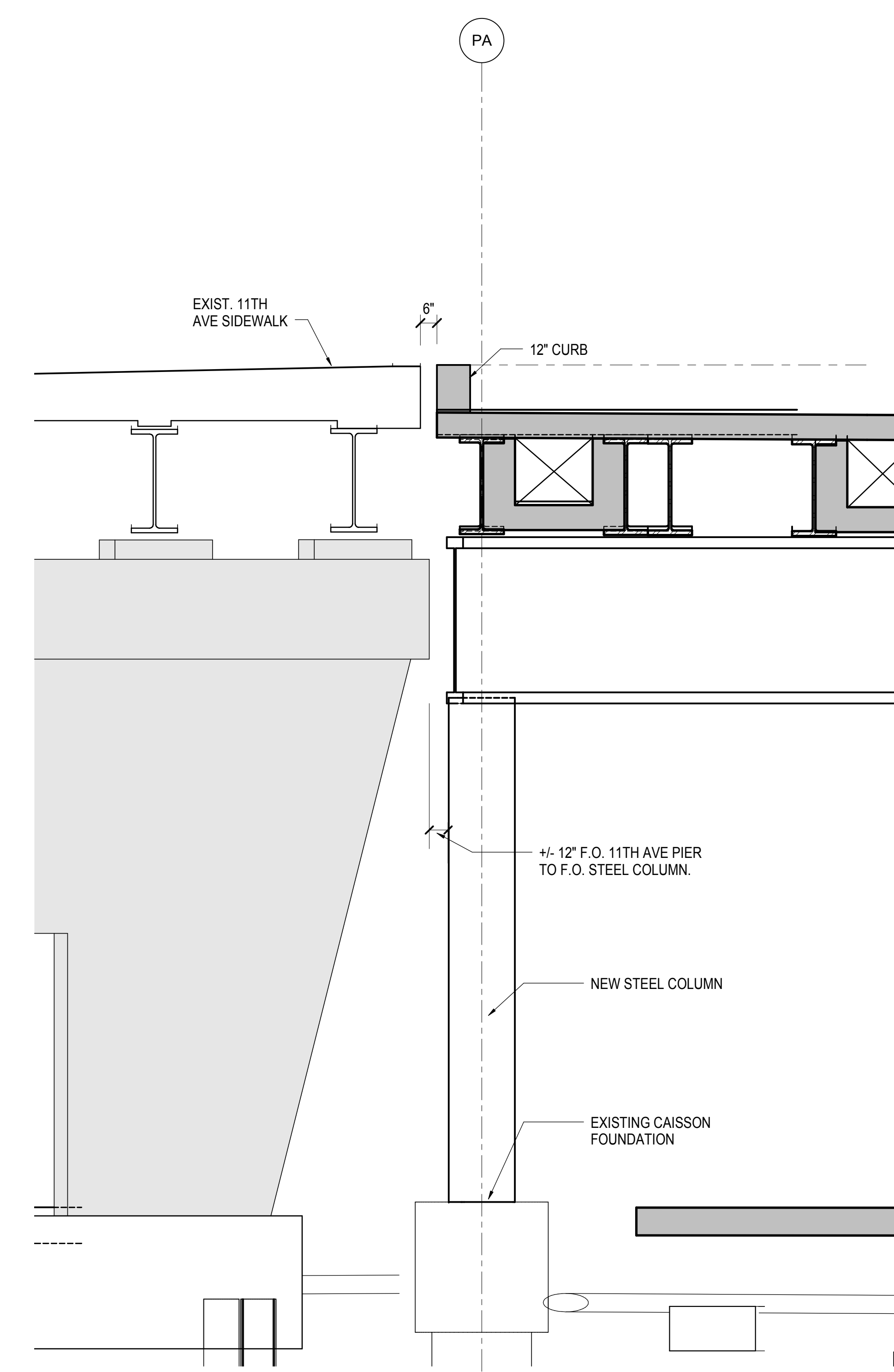
1 SECTION AT 31ST STREET  
3/8" = 1'-0"



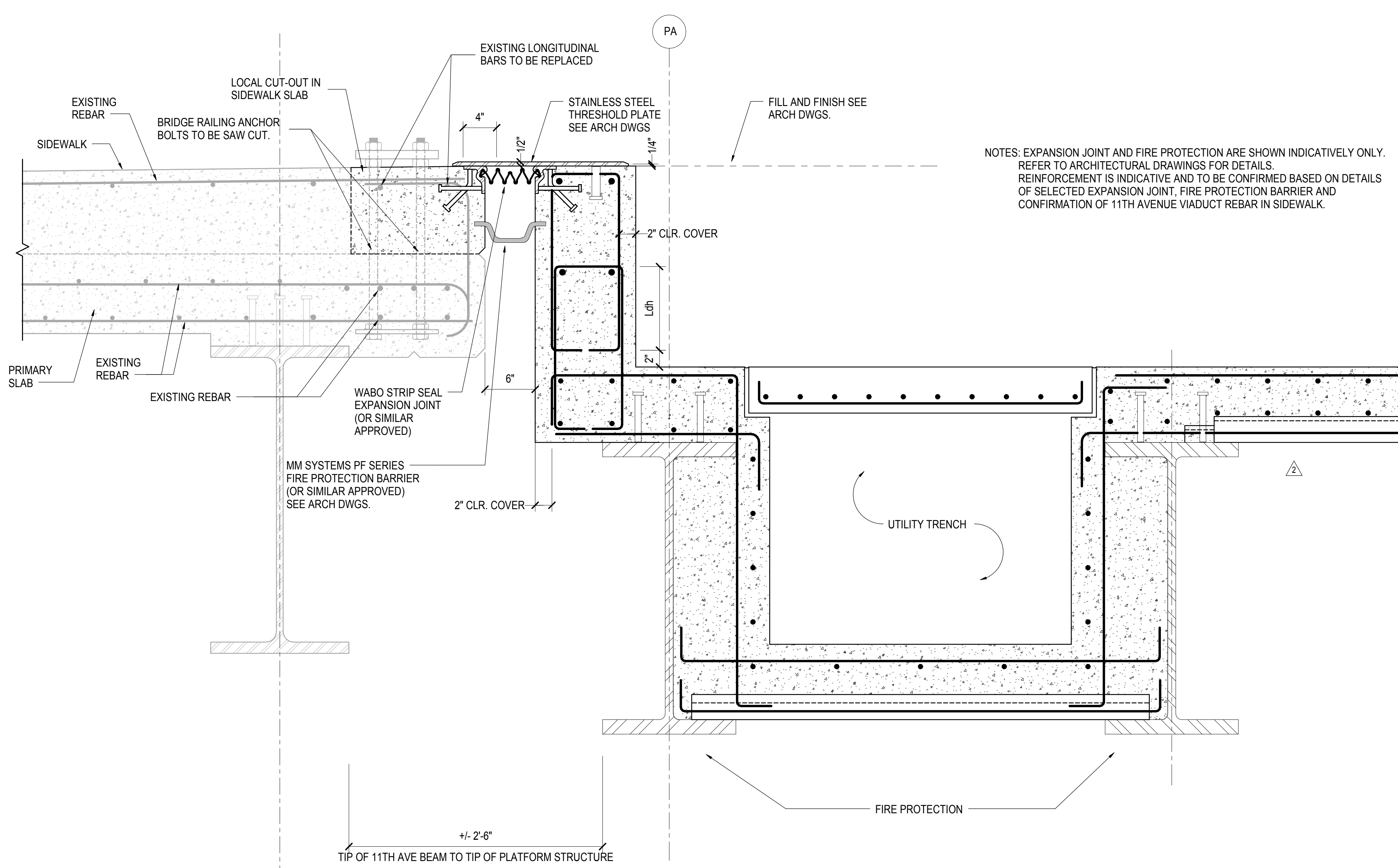
2 SECTION AT 11TH AVENUE  
3/8" = 1'-0"



3 SECTION AT 11TH AVENUE  
3/8" = 1'-0"



4 SECTION AT PA7 COLUMN  
3/8" = 1'-0"

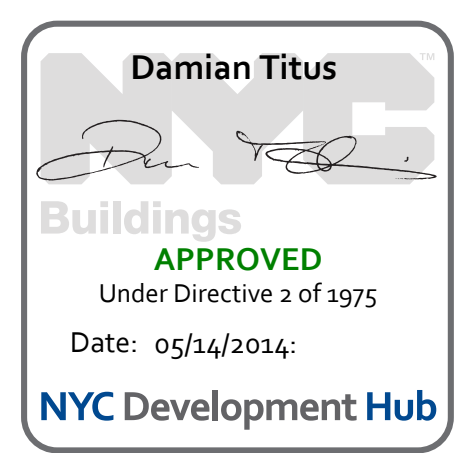


5 TYPICAL EXPANSION JOINT DETAIL  
1/12" = 1'-0"

NOTES: EXPANSION JOINT AND FIRE PROTECTION ARE SHOWN INDICATIVELY ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS. REINFORCEMENT IS INDICATIVE AND TO BE CONFIRMED BASED ON DETAILS OF SELECTED EXPANSION JOINT, FIRE PROTECTION BARRIER AND CONFIRMATION OF 11TH AVENUE VIADUCT REBAR IN SIDEWALK.

NYC DOB FILING	Date
L.I.R.R. - PRE-FINAL SUBMISSION	11/22/2013
M&U - PLATFORM SUBMISSION	11/22/2013
Δ - DR-02 PHASE I STRUCTURAL UPDATE	11/11/2013
NYC DOB FILING	10/24/2013
Δ - DR-01 PHASE I STRUCTURE UPDATE	9/20/2013
L.I.R.R. - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
L.I.R.R. - 60% SUBMISSION	5/29/2013
L.I.R.R. - 60% - PHASE I FDNS	3/29/2013
L.I.R.R. - 30% SUBMISSION	2/15/2013
NYC DOB FILING	02/15/2013

Exp Plan

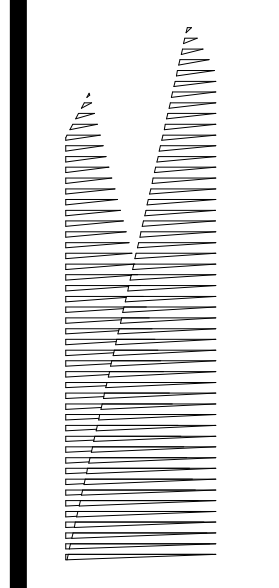


Date: 12/14/2012  
Project No: N11330.00  
Author: [Signature]

**HYE - PL - S-504.00**  
**EXPANSION JOINT DETAILS II**

Drawing Number / Revision Drawing Number  
**S-504.00**





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60 Columbus Circle  
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Construction Manager  
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Architect  
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LIRR Substation  
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New York, NY 10158  
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NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL SUBMISSION	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DR-02 PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ - DR-01 PHASE 1 STRUCTURE UPDATE	9/20/2013
L.I.R.R. - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
L.I.R.R. - 60% SUBMISSION	5/29/2013
L.I.R.R. - 60% - PHASE 1 FDNS	3/29/2013
L.I.R.R. - 30% SUBMISSION	2/15/2013
NYC DOB FILING	08/20/2012

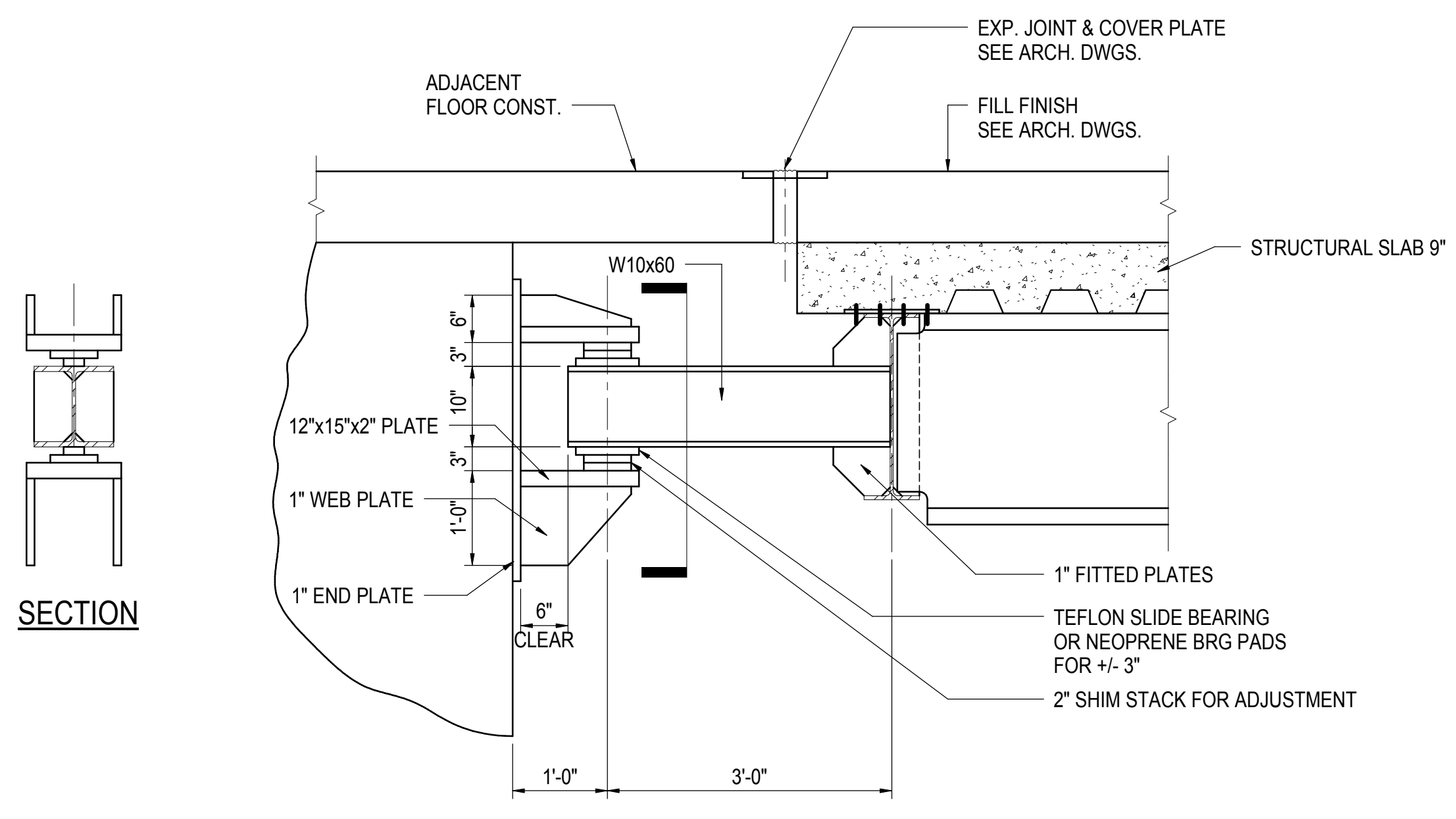
NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL SUBMISSION	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DR-02 PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ - DR-01 PHASE 1 STRUCTURE UPDATE	9/20/2013
L.I.R.R. - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
L.I.R.R. - 60% SUBMISSION	5/29/2013
L.I.R.R. - 60% - PHASE 1 FDNS	3/29/2013
L.I.R.R. - 30% SUBMISSION	2/15/2013
NYC DOB FILING	08/20/2012

Exp. Plan

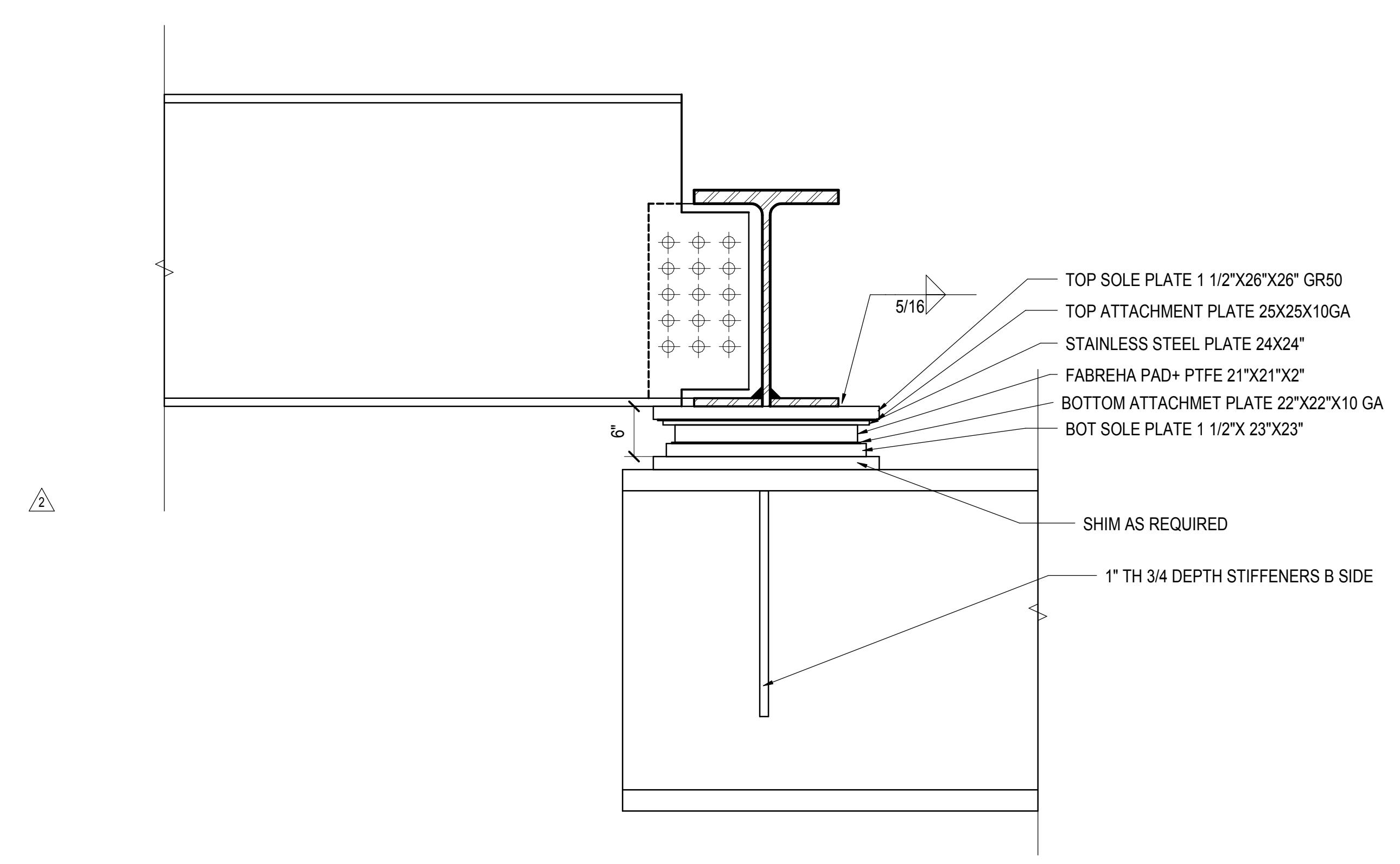
Date: 12/14/2012  
Project No: N11330.00  
Author: Author

**HYE -PL -S-505.00**  
Sliding Bearing  
**DETAILS**

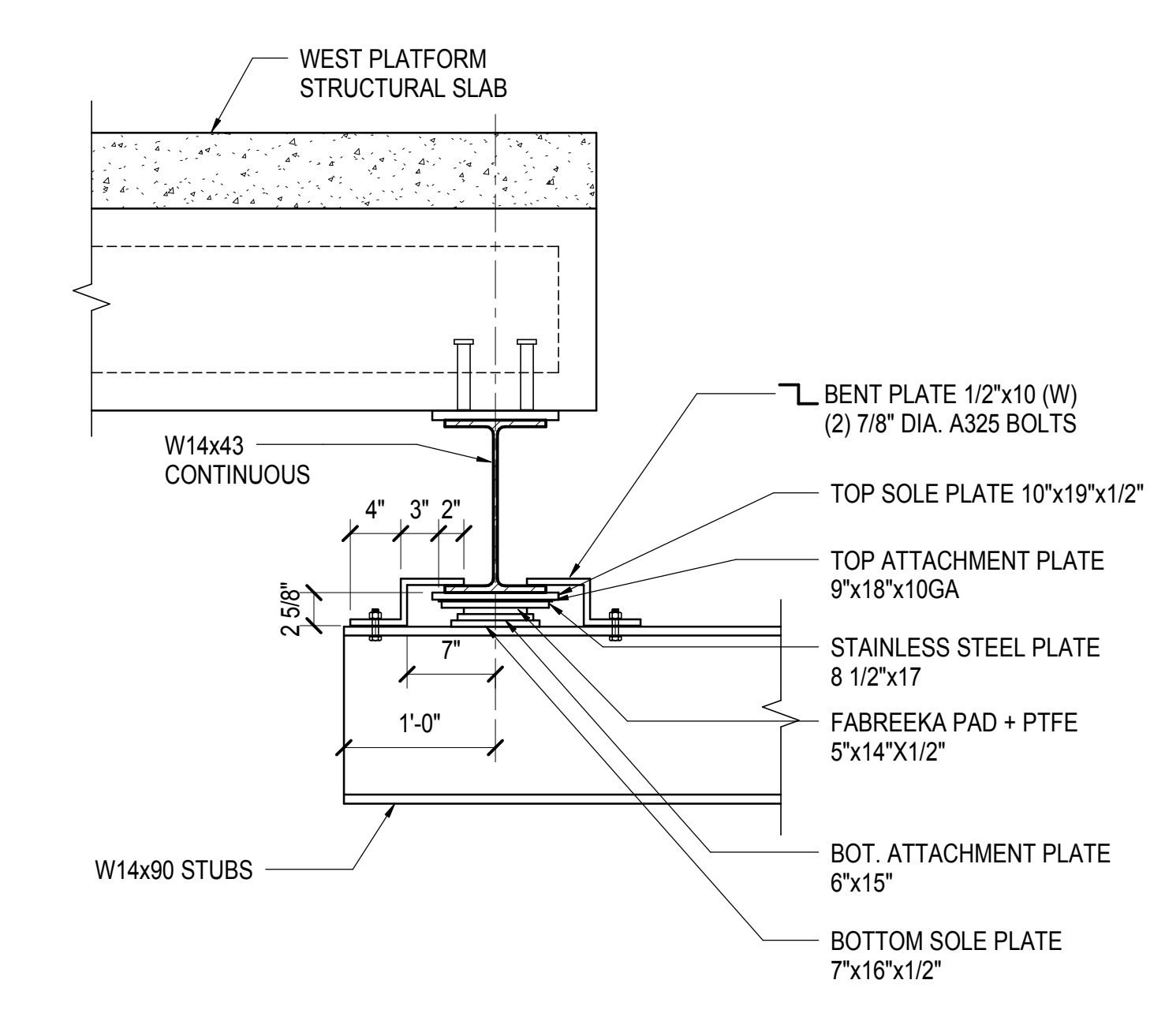
Drawing Number / B/S/C/N Drawing Number  
**S-505.00**  
SHEET 139 OF 201



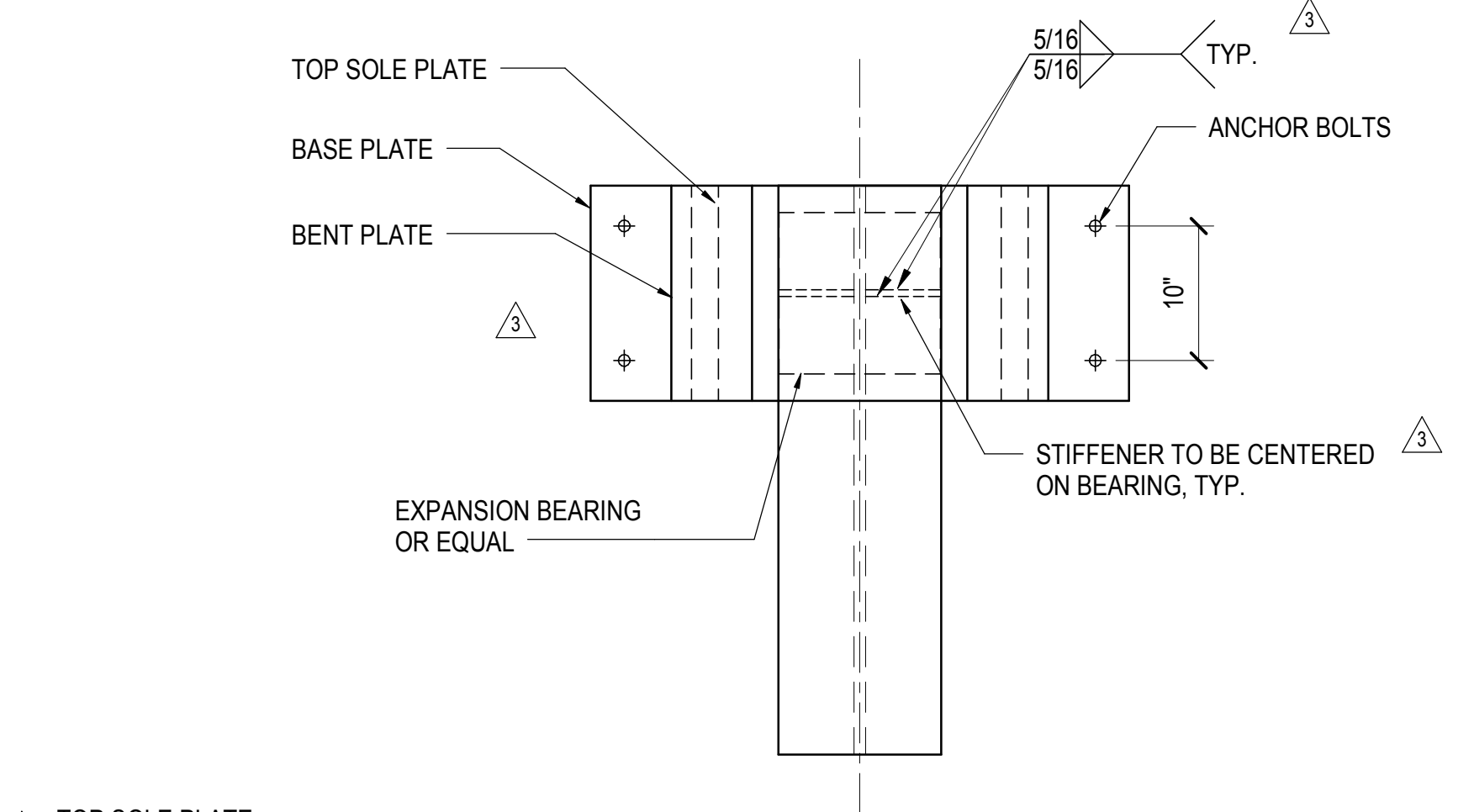
**1** TYPE A - ALIGNMENT SLIDE BRG DETAILS (60k CAPACITY)  
TYPICAL (15' O.C. TYPICAL OR AS INDICATED ON PLAN)  
1" = 1'-0"



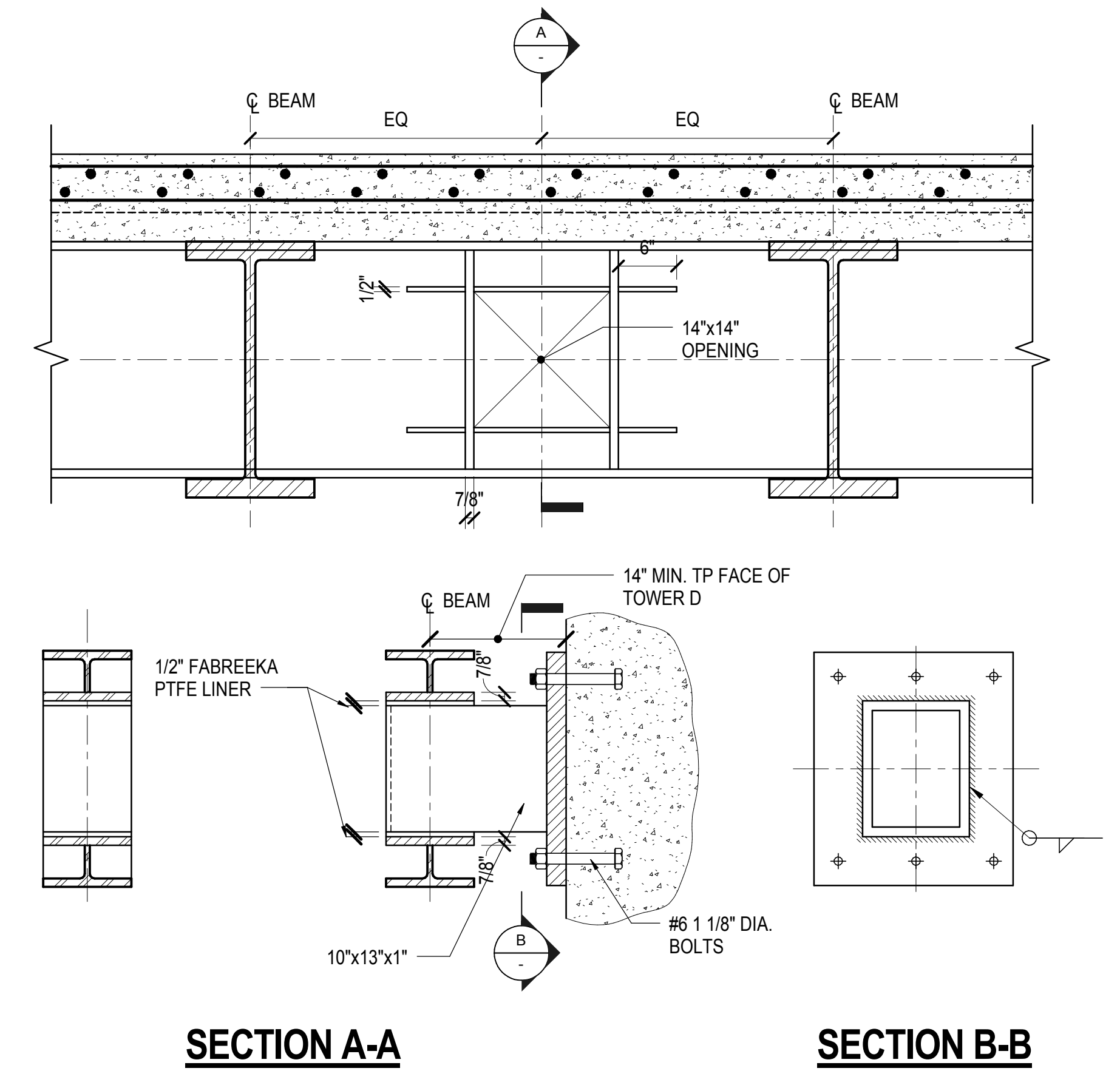
**2** EXPANSION BEARING AT A14.8 (680k CAPACITY)  
1" = 1'-0"



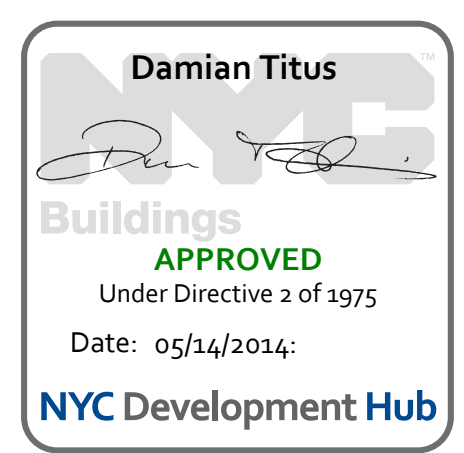
**3** TYP. EXPANSION BEARING ALONG GRID A.A (113k CAPACITY)  
1" = 1'-0"



**4** EXPANSION BEARING AT PG TO PS ALONG GRIDS 1 & 1A (230k CAPACITY)  
1" = 1'-0"



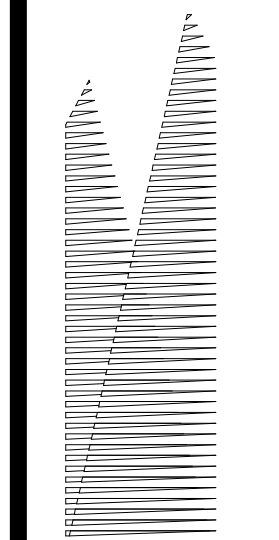
**5** ALIGNMENT SLIDE BEARING DETAIL AT TOWER D (SEE PLAN) TYPICAL (350k CAPACITY)  
1" = 1'-0"











Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

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320 Park Avenue, 17th Floor  
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Construction Manager  
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Structural Engineer  
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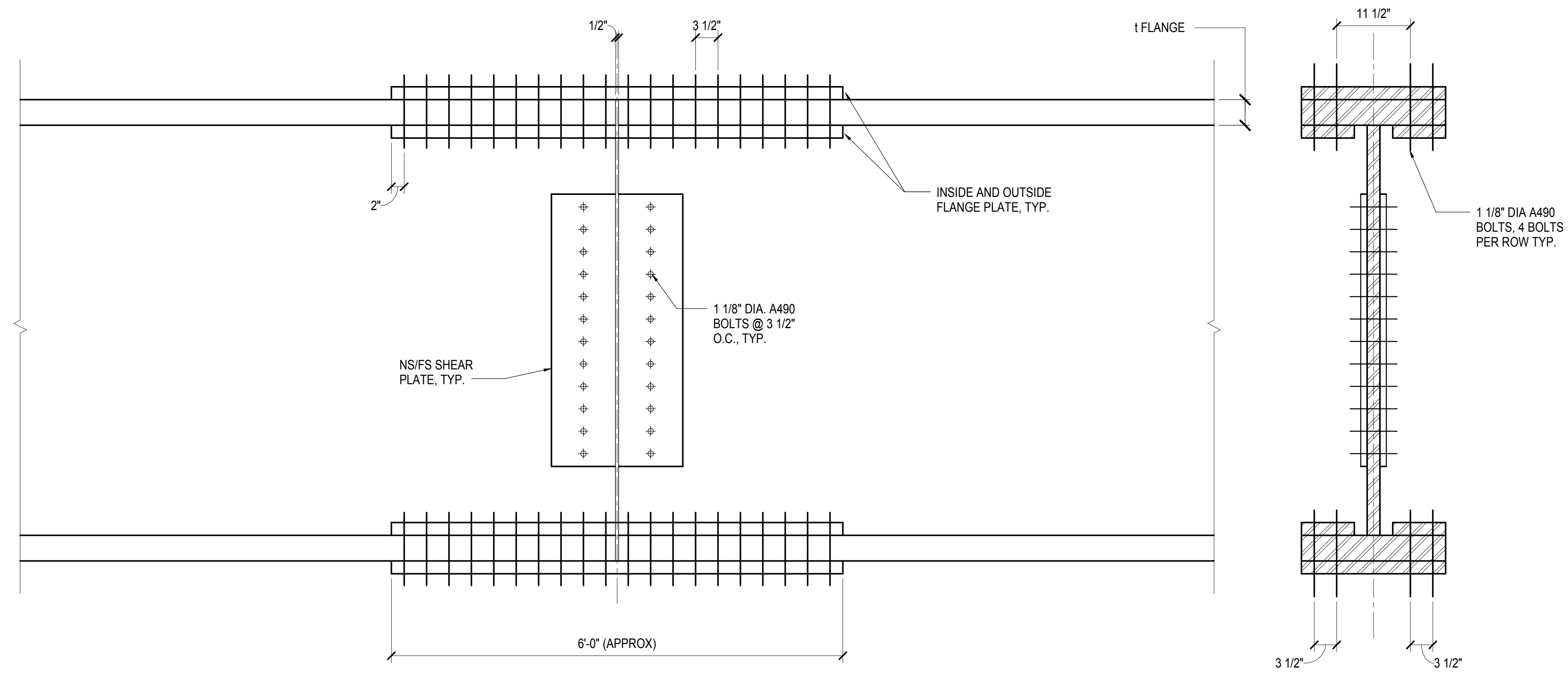
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
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Tel: 212.266.8300 Fax: 212.571.6825

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New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
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605 Third Avenue  
New York, NY 10158  
Tel: 212.973-9200 Fax: 212.682.6172

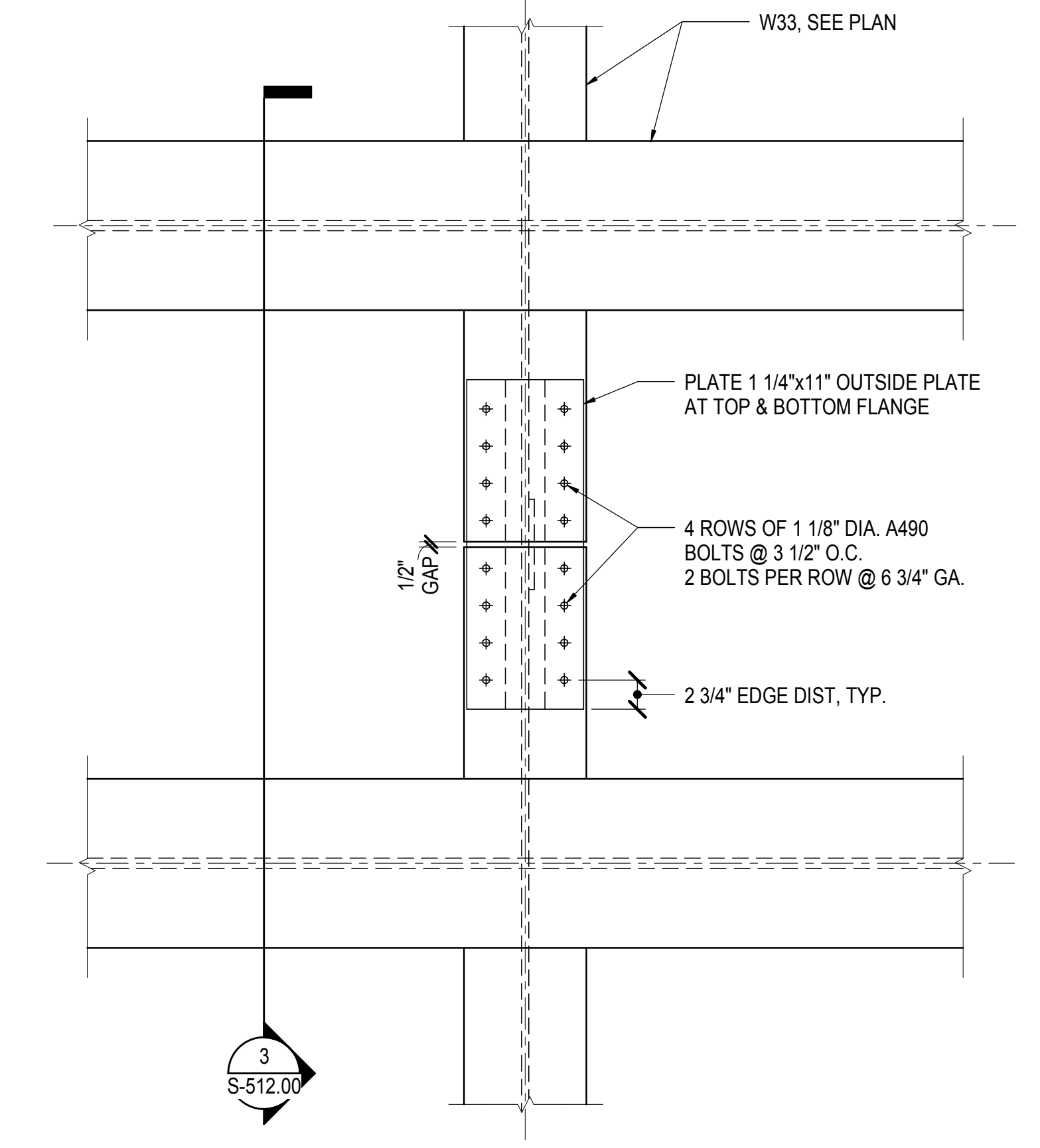
NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL SUBMISSION	11/22/2013
M&T - PLATFORM SUBMISSION	
A - DR-02 PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
A - DR-01 PHASE 1 STRUCTURE UPDATE	9/20/2013
L.I.R.R. - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
L.I.R.R. - 60% SUBMISSION	5/29/2013
L.I.R.R. - 60% - PHASE 1 FDNS	3/29/2013
L.I.R.R. - 30% SUBMISSION	2/15/2013
Rev	Description

Rev Plot

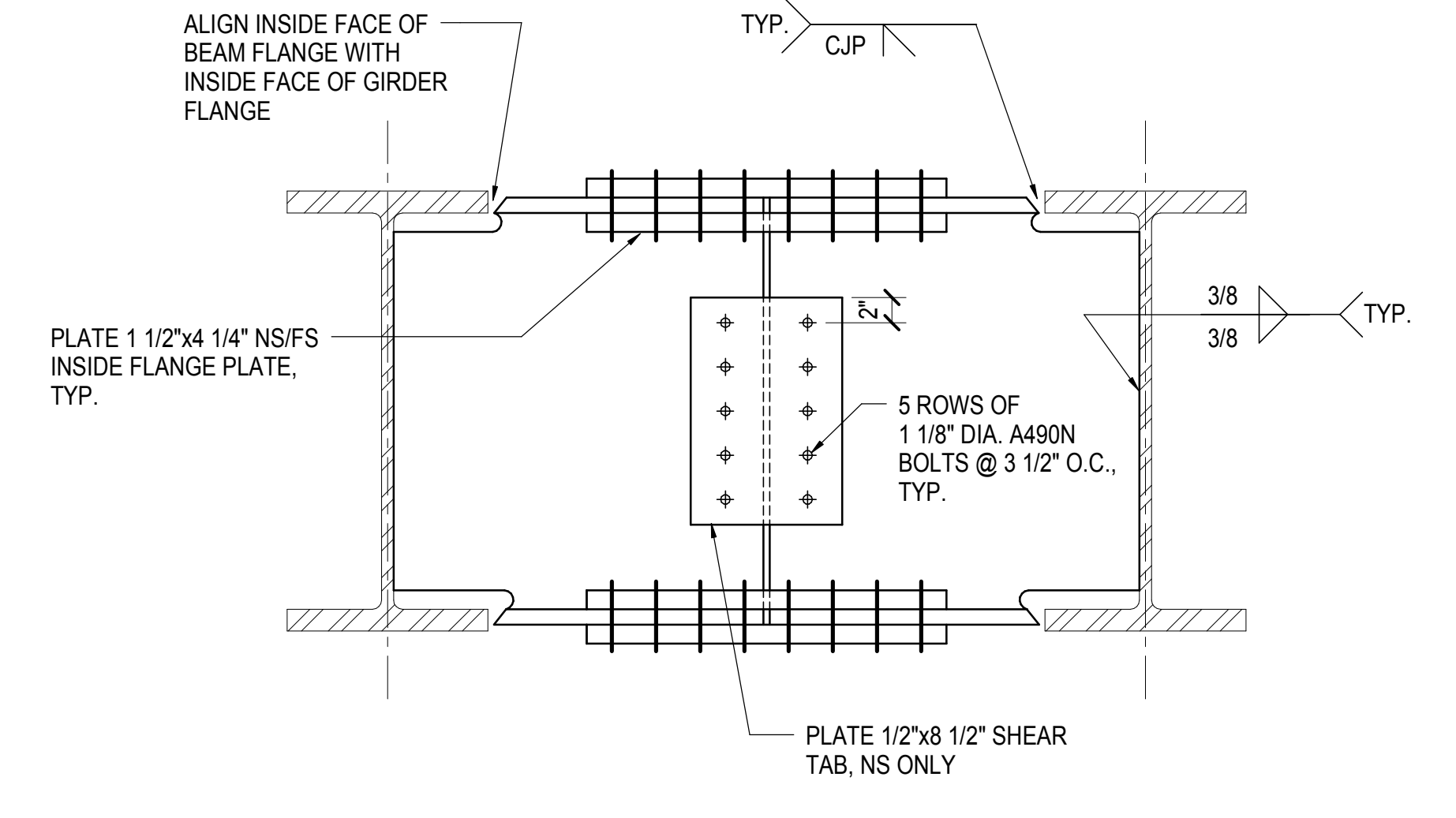


**SECTION A-A**

NOTE: 1. INDICATIVE - PLATE SIZE, BOLT SIZE, NUMBER AND SPACING TO BE CONFIRMED ON LOCATION BY LOCATION BASIS.



**BEAM TO BEAM BRIDGING MOMENT CONNECTION  
DETAIL IN WEST GRID**

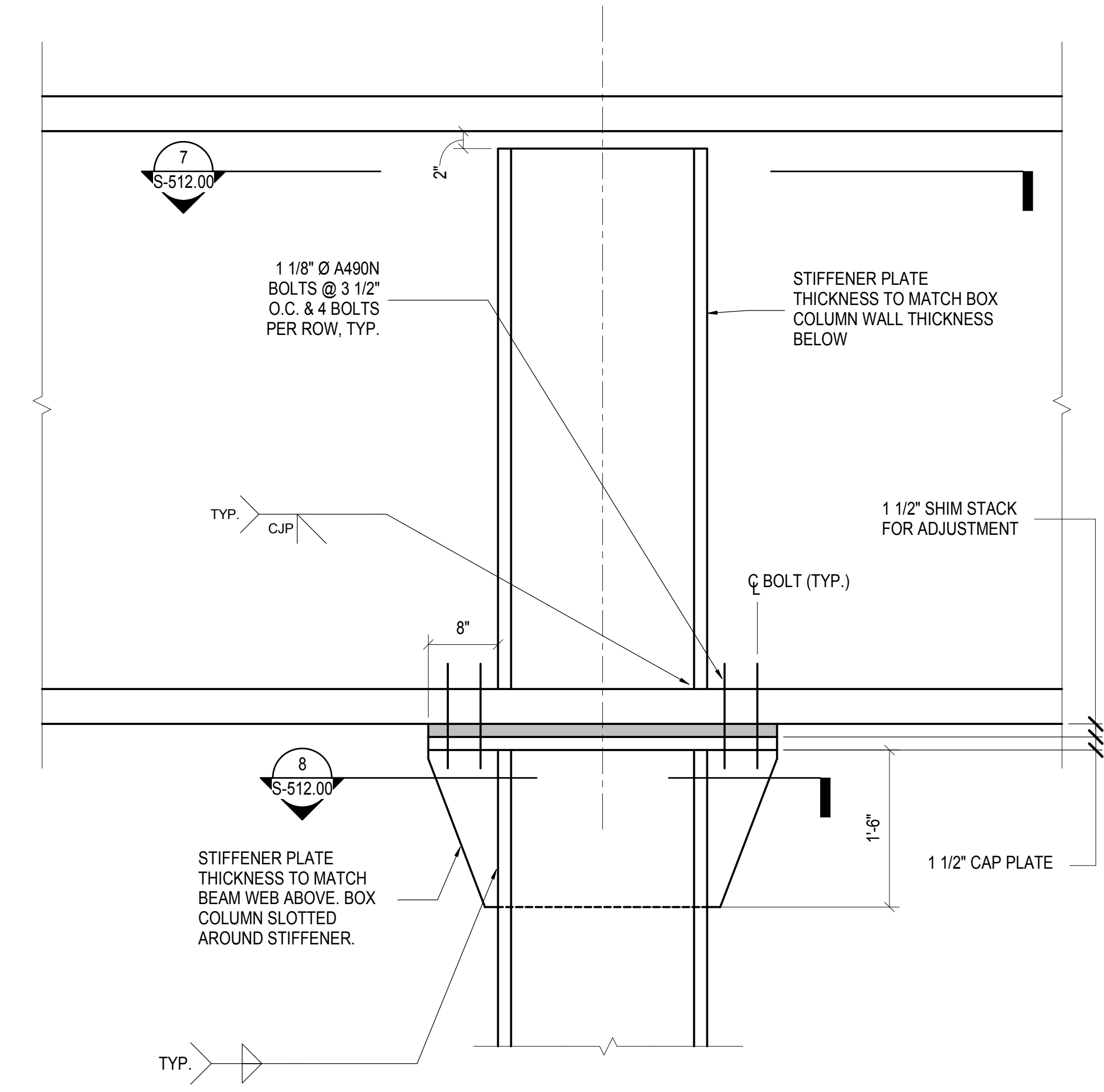


**SECTION**

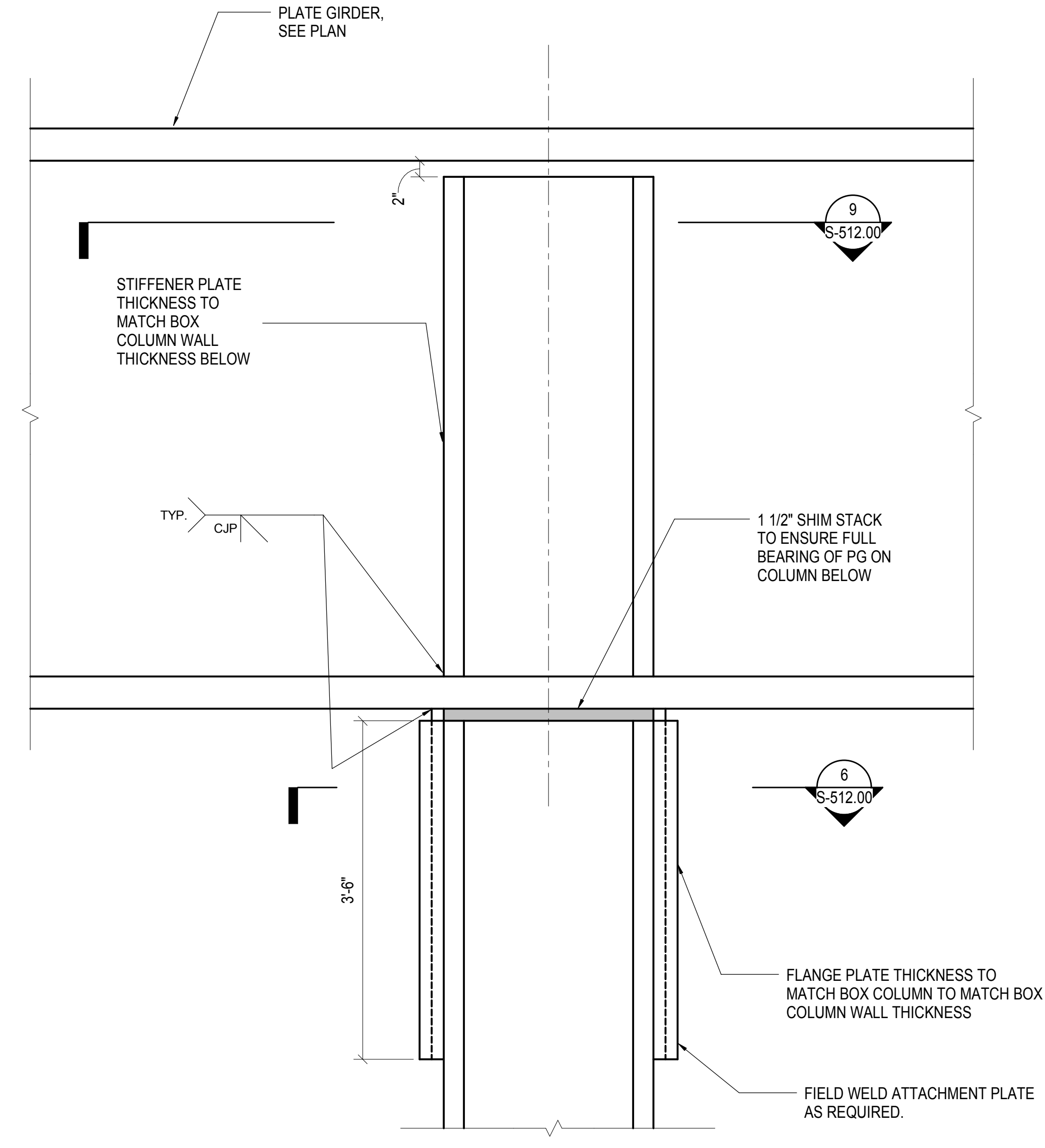
**1 TYPICAL PLATE GIRDER SPLICE DETAIL**  
1" = 1'-0"

**2 BEAM TO BEAM BRIDGING MOMENT CONNECTION  
DETAIL IN WEST GRID**  
1" = 1'-0"

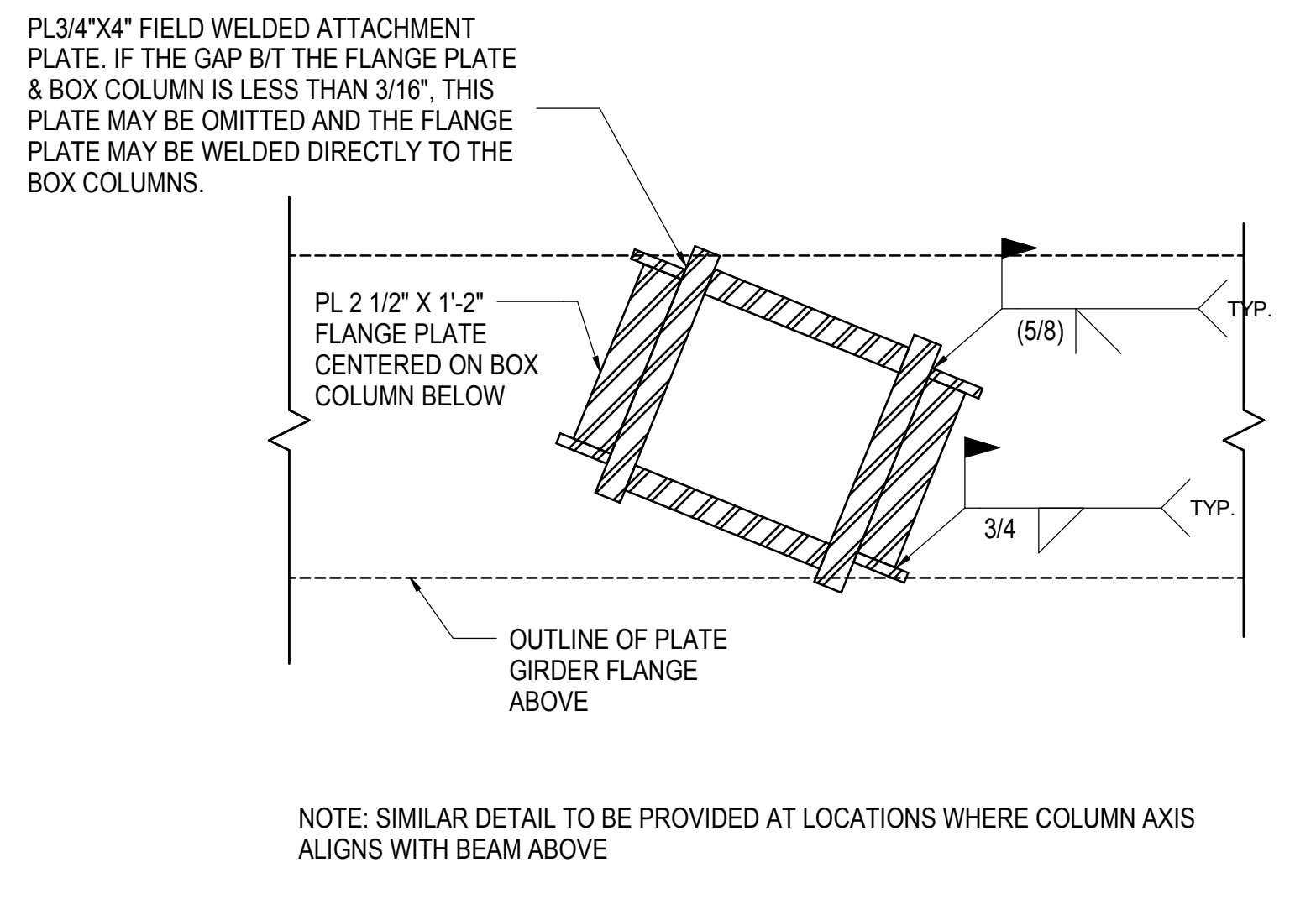
**3 SECTION**  
1" = 1'-0"



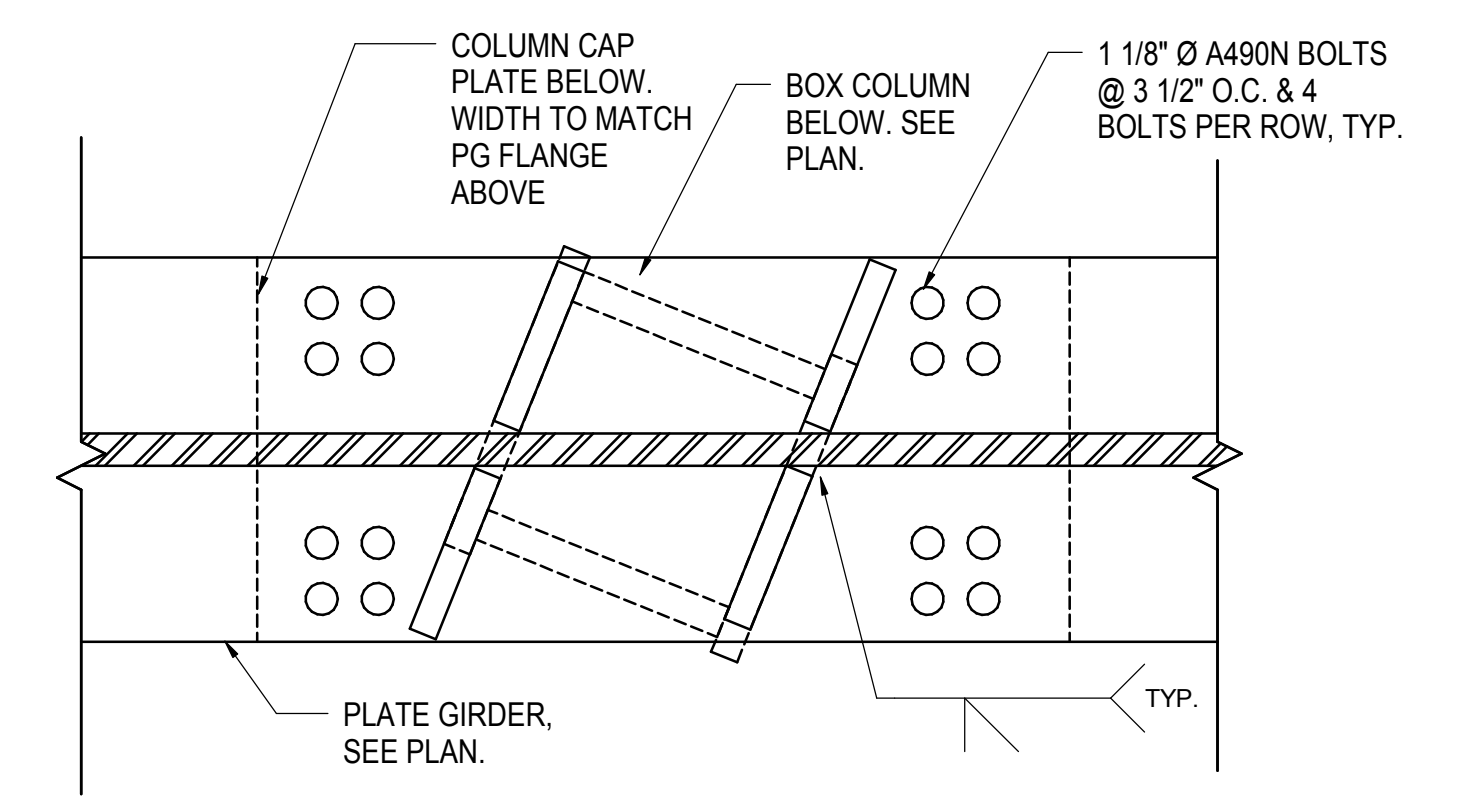
**4 TYPICAL COLUMN HEAD DETAIL**  
1" = 1'-0"



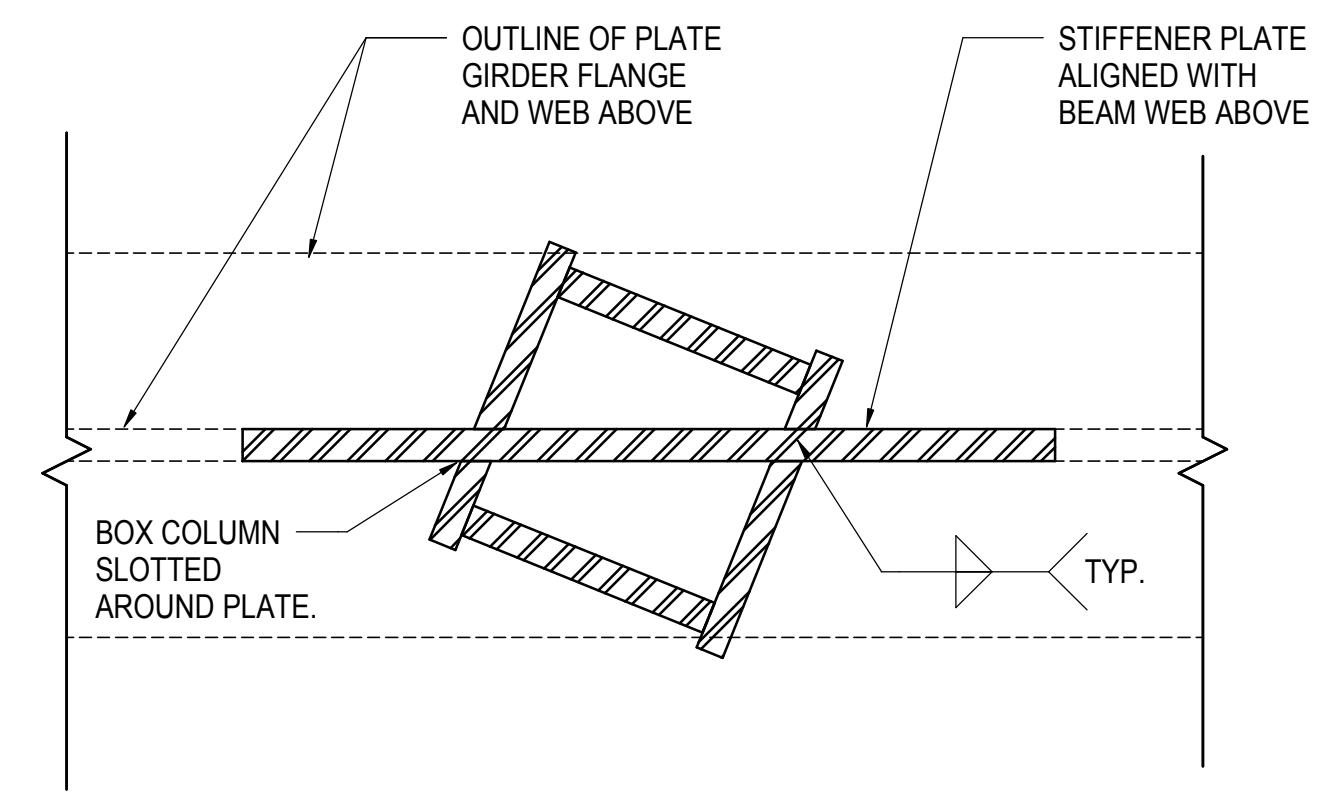
**5/S-512.00 - TYPICAL COLUMN HEAD DETAIL AT HIGH  
MOMENT TRANSFER**  
1" = 1'-0"



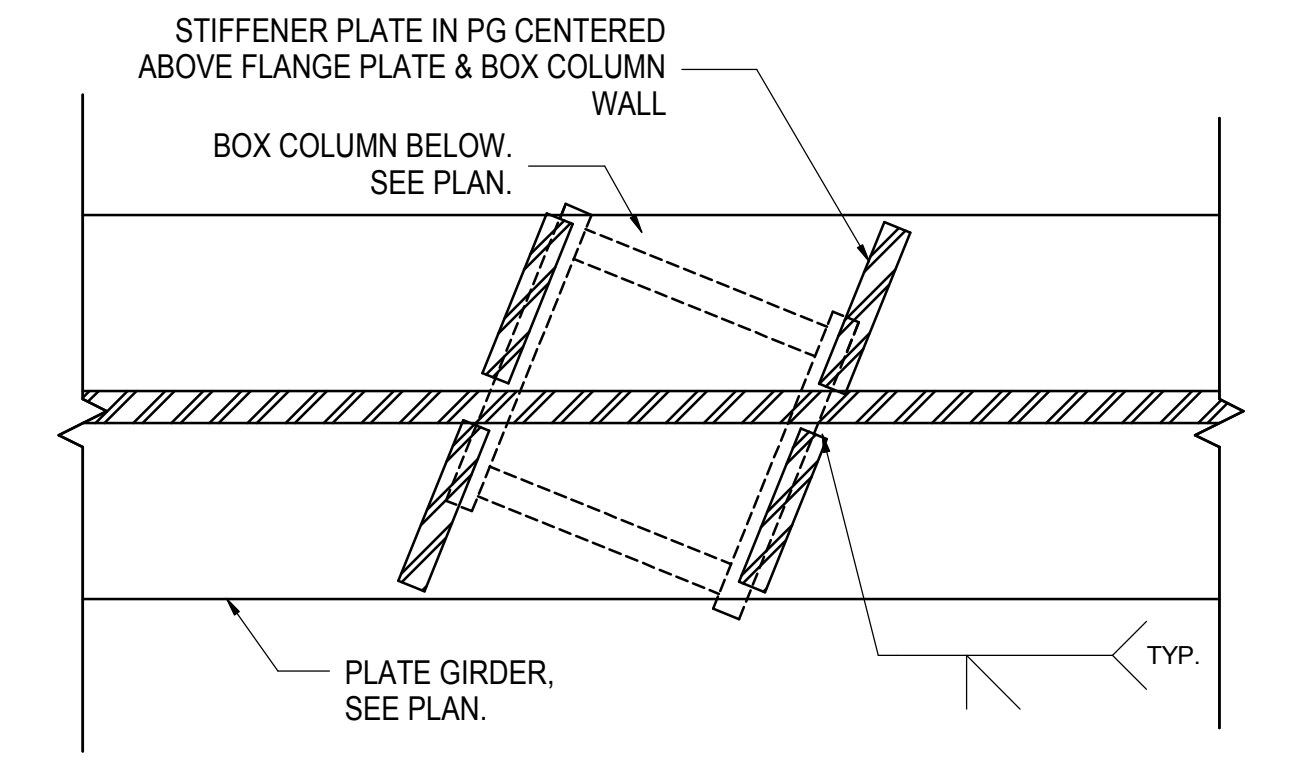
**6 SECTION AT PG TO COLUMN FLANGE PLATE DETAIL**  
1" = 1'-0"



**7 SECTION AT PLATE GIRDER OVER TYPICAL COLUMN**  
1" = 1'-0"

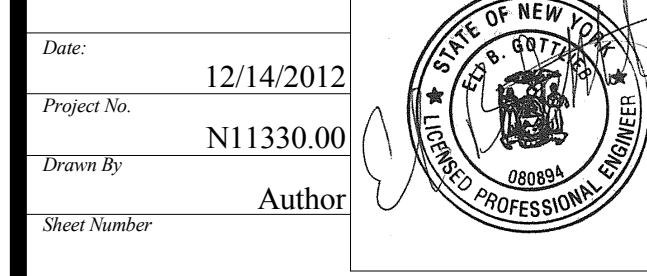


**SECTION AT STIFFNER IN COLUMN BELOW PLATE  
GIRDER**  
1" = 1'-0"



**SECTION IN PLATE GIRDER AT FLANGE PLATE  
DETAIL**  
1" = 1'-0"

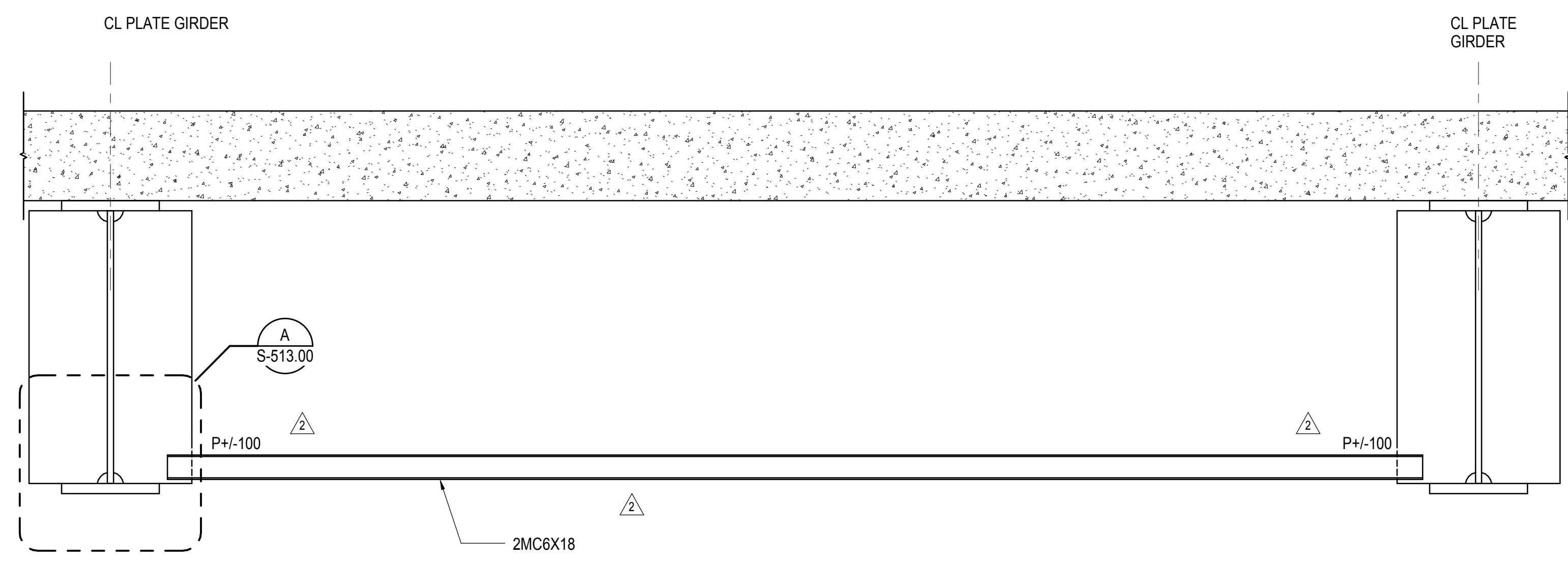
**Damian Titus**  
Building  
APPROVED  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub



**HYE - PL - S-512.00**  
Drawing Title  
**WEST PLATFORM PLATE GIRDERS AND BEAMS**

S-512.00  
11/22/2013 3:18:24 PM  
C:\S\Platform\11330.00 - East Platform - Central\_GN.dwg  
WEST PLATFORM PLATE GIRDERS AND BEAMS  
11/22/2013 3:18:24 PM  
C:\S\Platform\11330.00 - East Platform - Central\_GN.dwg

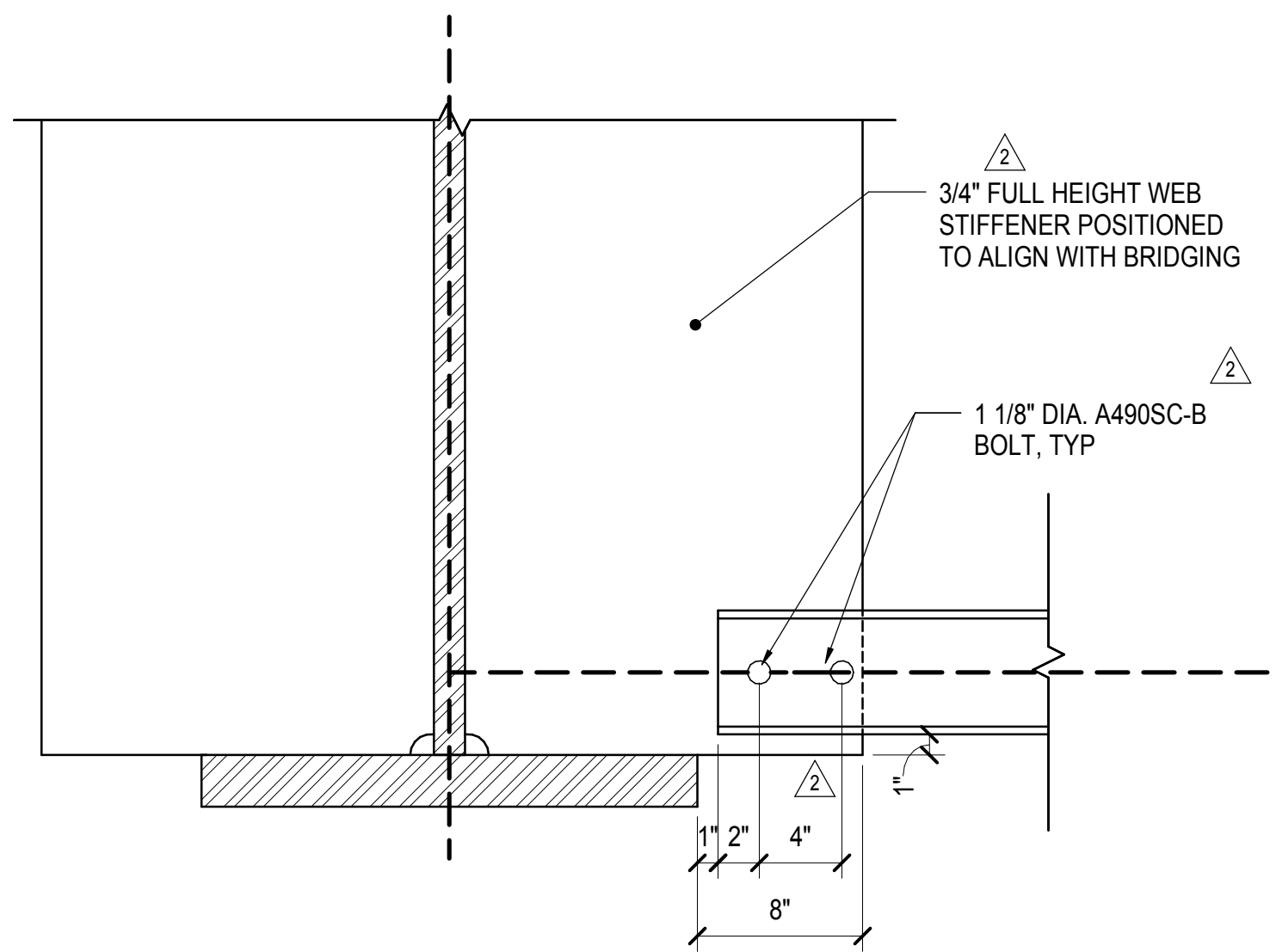




NOTE: REFER TO DRAWING S-131.00 TO S-139.00 FOR BRIDGING LAYOUT

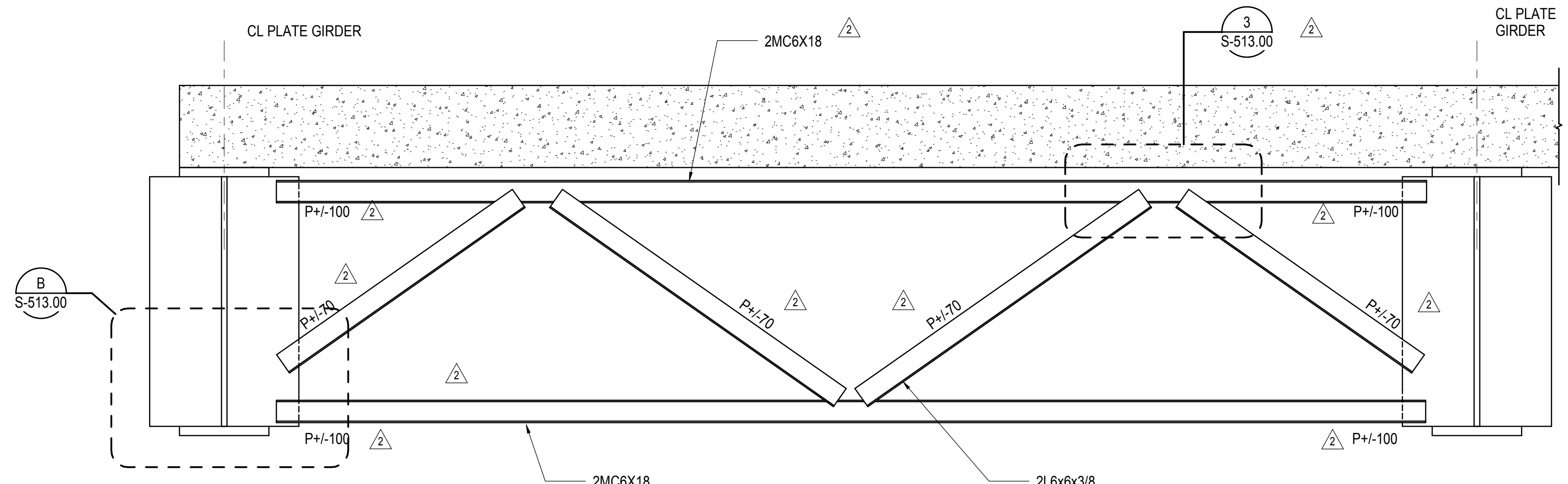
**1 TYPICAL BRIDGING BR1 SECTION AND DETAIL**

1/2" = 1'-0"



**A SECTION**

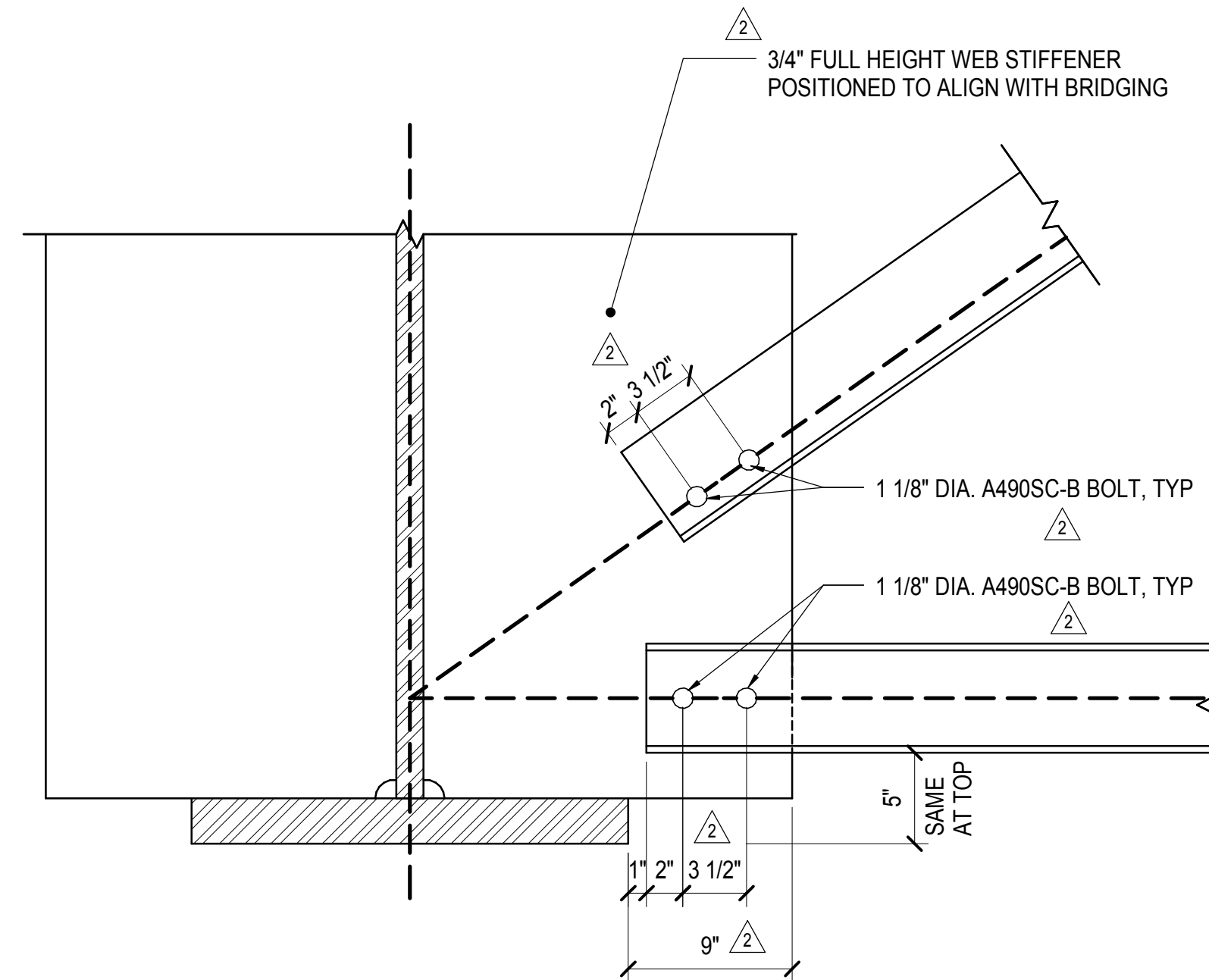
NOT TO SCALE



NOTES:  
 1. REFER TO DRAWING S-131.00 TO S-139.00 FOR BRIDGING LAYOUT  
 2. LAYOUT BASED ON ASSUMED CONSTRUCTION SEQUENCE AND SUBJECT TO MODIFICATION BASED ON CONTRACTORS FINAL CHOSEN SEQUENCE.

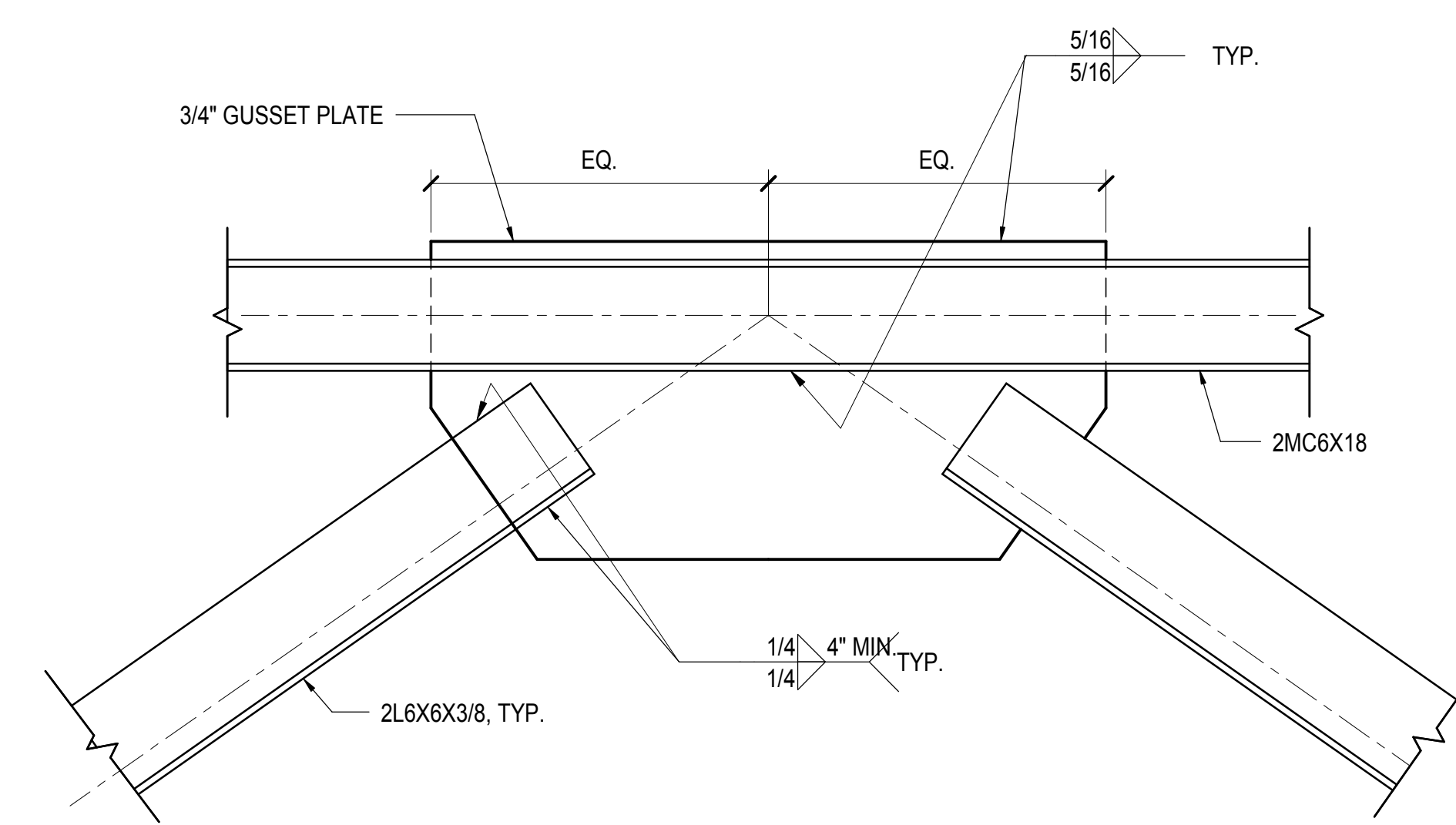
**2 END BAY BRIDGING BR2 SECTION AND DETAIL**

1/2" = 1'-0"



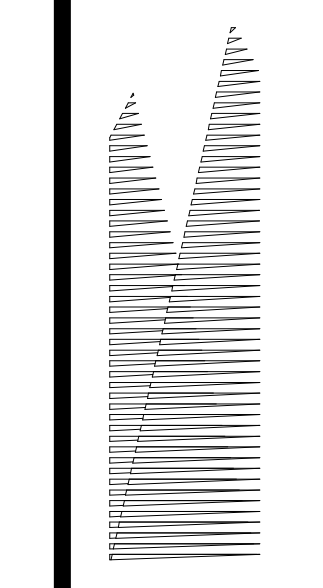
**B SECTION**

NOT TO SCALE



**3 BRIDGING TRUSS WELDED GUSSET PLATE DETAIL**

1 1/2" = 1'-0"



Client  
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 PC Architects & Planning Consultants  
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LIRR Ventilation  
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 New York, NY 10005  
 Tel: 212.896.3000

LIRR Substation  
 AECOM  
 605 Third Avenue  
 New York, NY 10158  
 Tel: 212.973.9200 Fax: 212.682.6172

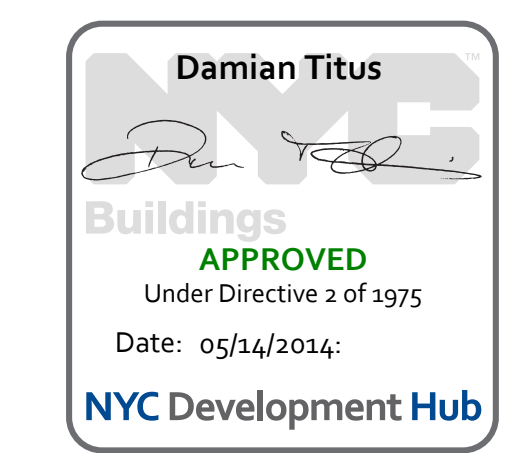
No.	Description	Date
1	NYC DOB FILING	12/4/2013
2	L.I.R.R. - PRE-FINAL 100%	11/22/2013
3	M&T - PLATFORM SUBMISSION	
4	DL-02 PHASE I STRUCTURAL UPDATE	11/1/2013
5	NYC DOB FILING	10/4/2013
6	DL-01 PHASE I STRUCTURE UPDATE	9/20/2013
7	L.I.R.R. - 90% SUBMISSION	8/09/2013
8	NYC DOB FILING	6/17/2013
9	L.I.R.R. - 60% SUBMISSION	5/29/2013
10	L.I.R.R. - 60% - PHASE I FDNS	3/29/2013
11	L.I.R.R. - 30% SUBMISSION	2/15/2013

Exp. Plan

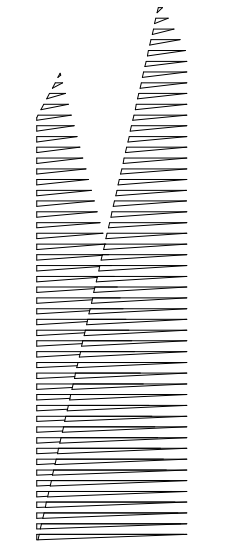
Date: 12/14/2012  
 Project No: N11330.00  
 Drawn By: Author  
 Sheet Number: 142

**HYE -PL -S-513.00**  
 Drawing Title  
**BRIDGING SECTIONS AND DETAILS**

Drawing Number / Revision Drawing Number  
**S-513.00**  
 SHEET 142 OF 201







Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Officer Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

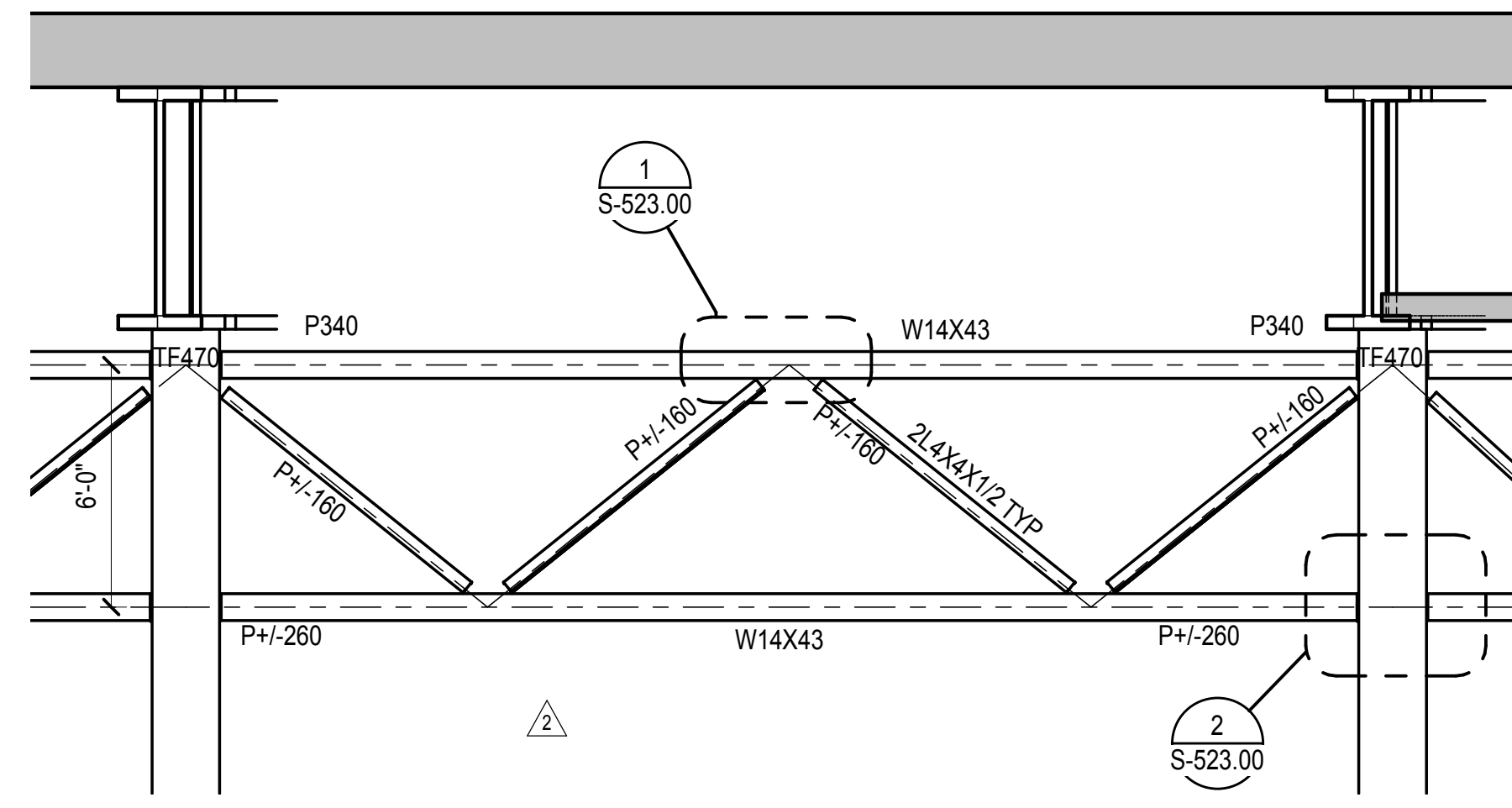
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

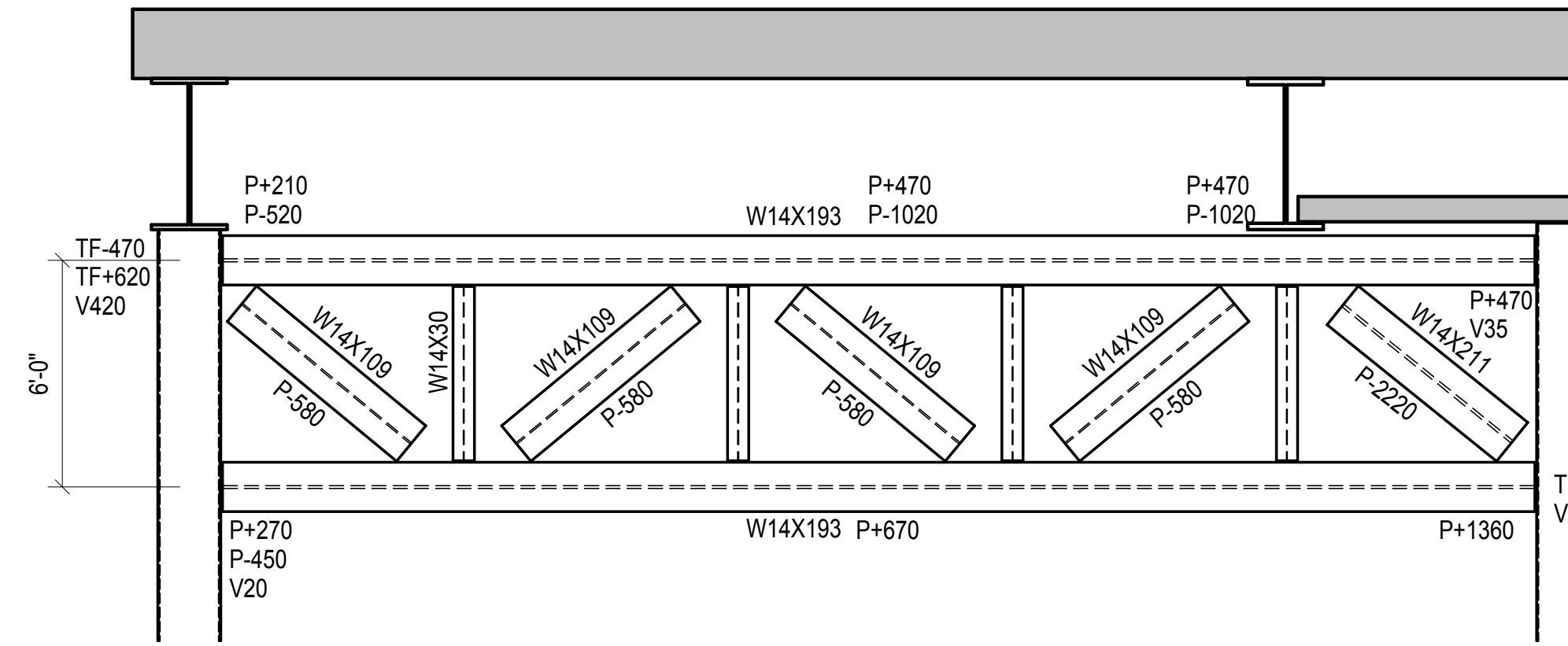
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

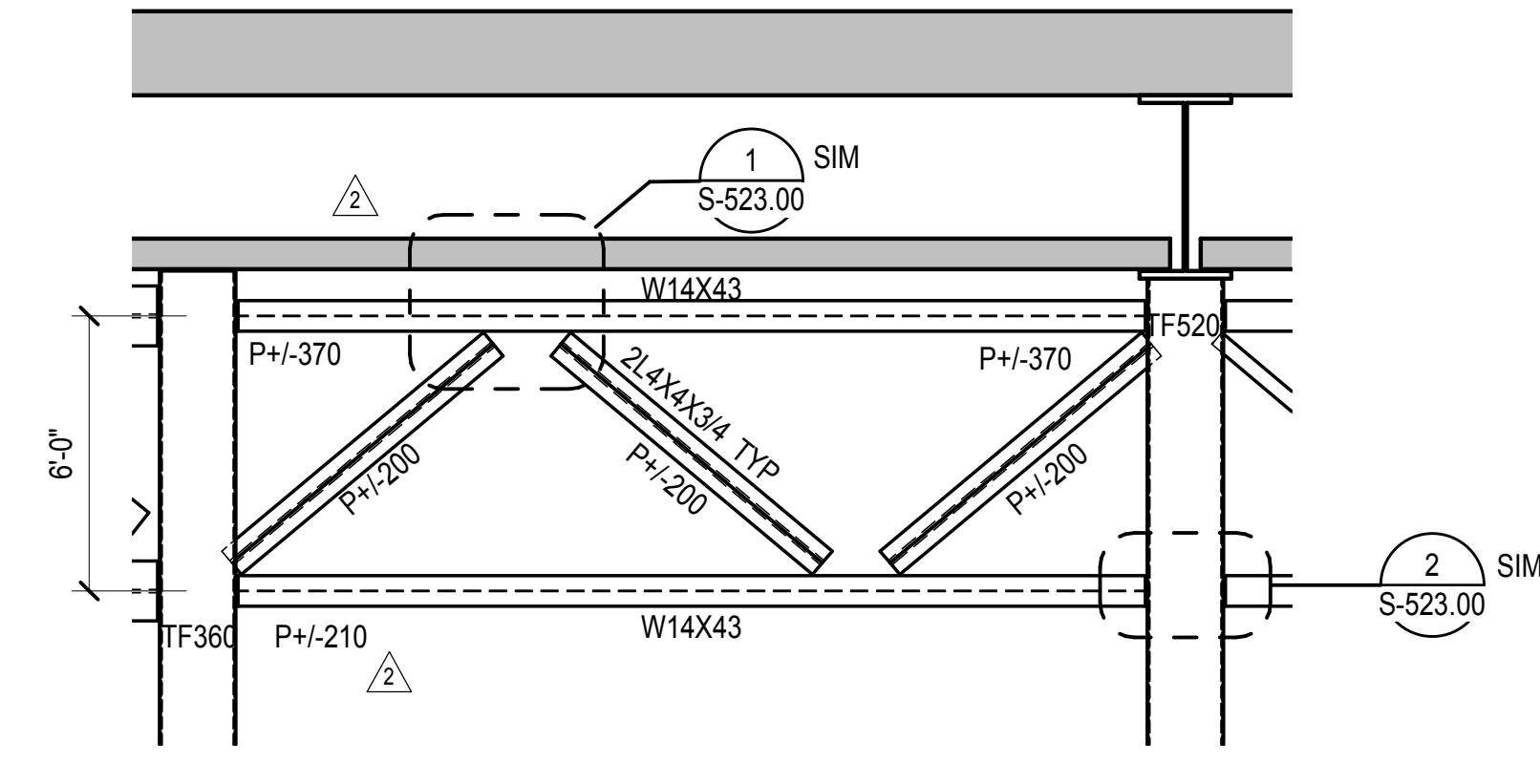
LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



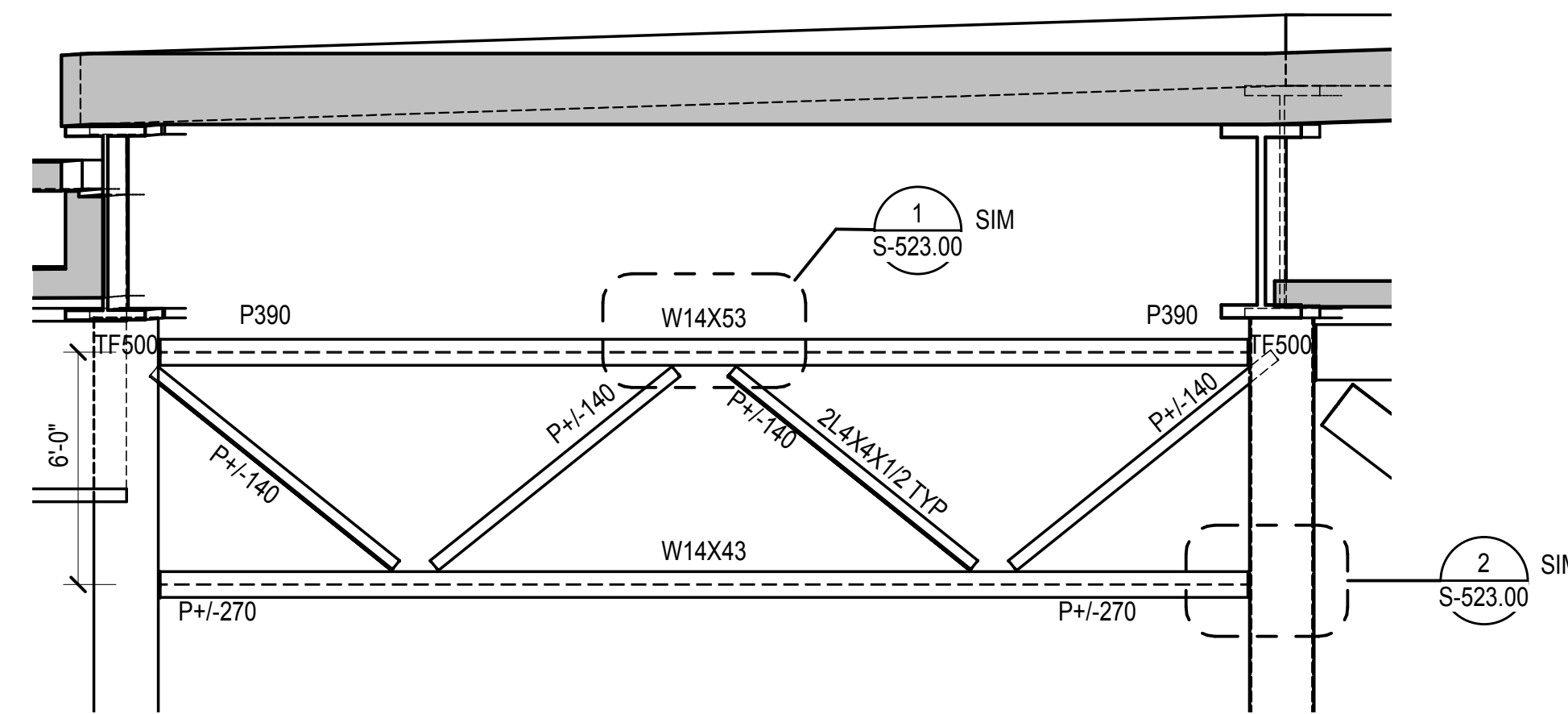
**1 TRUSS T1 ELEVATION**  
1/4" = 1'-0"



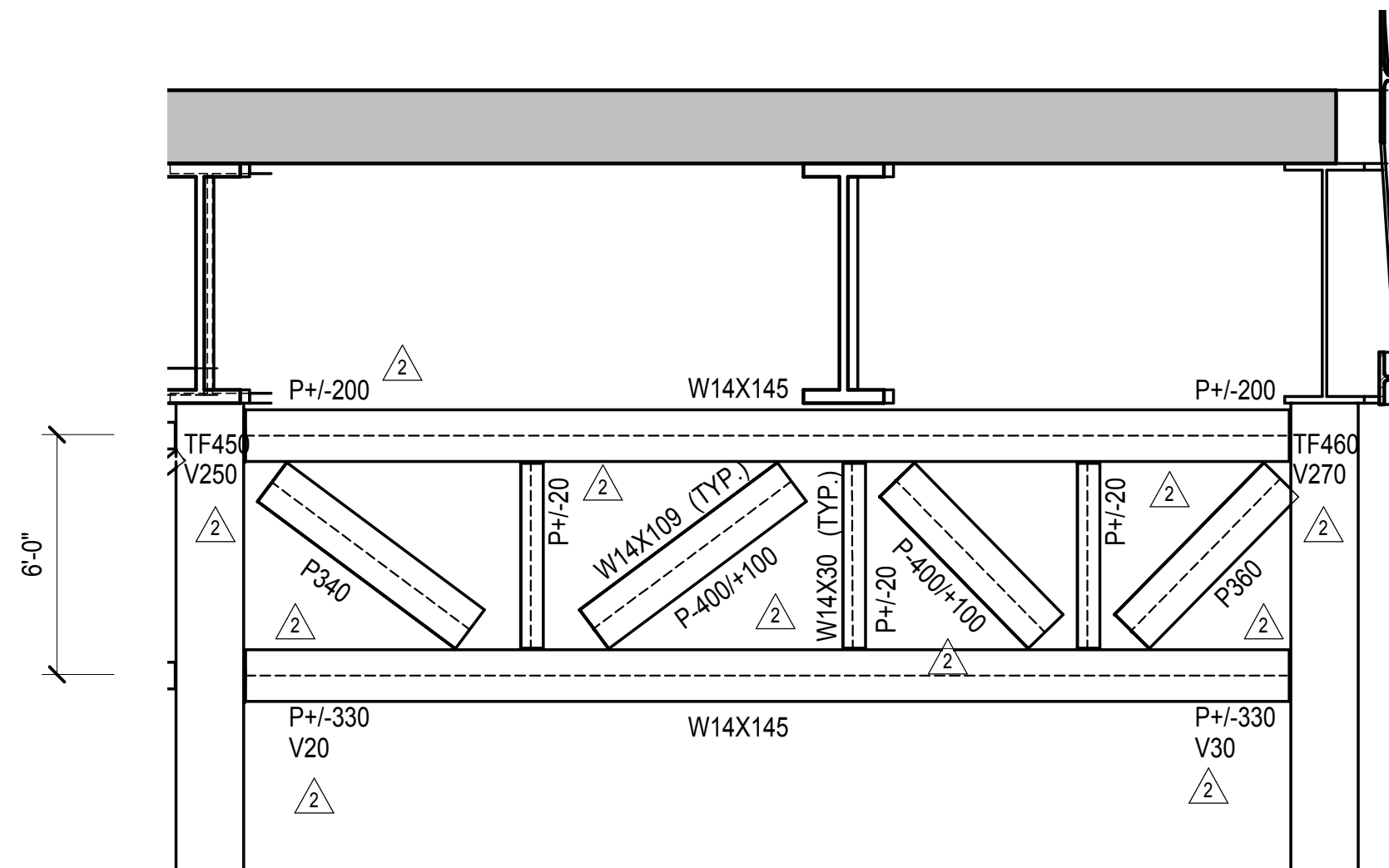
**2 TRUSS T1A ELEVATION**  
1/4" = 1'-0"



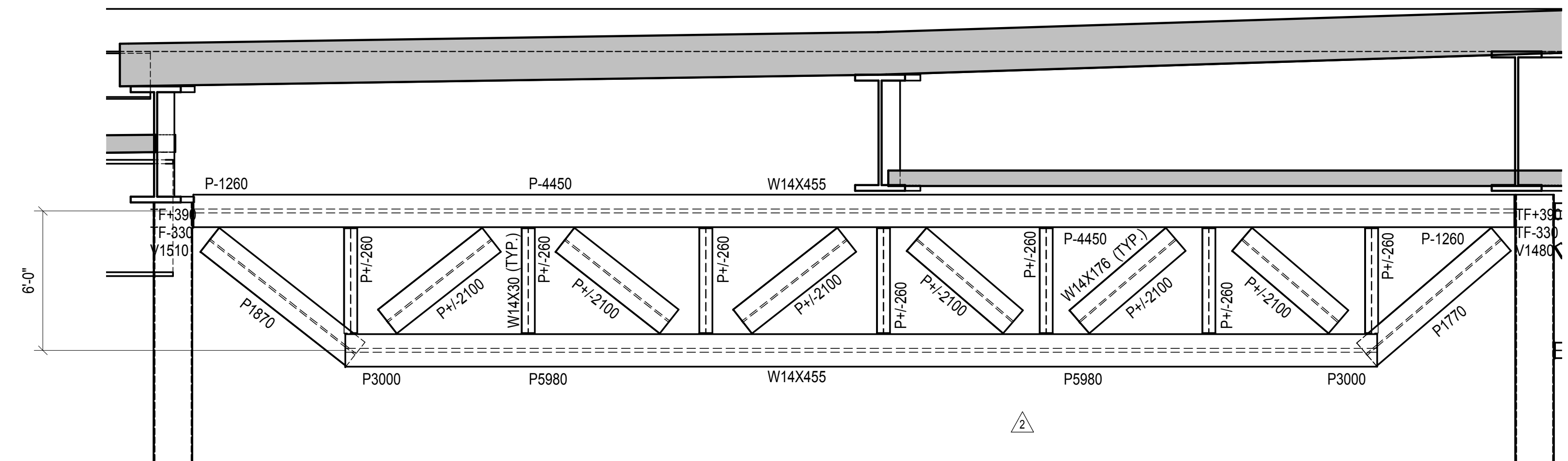
**3 TRUSS T1B ELEVATION**  
1/4" = 1'-0"



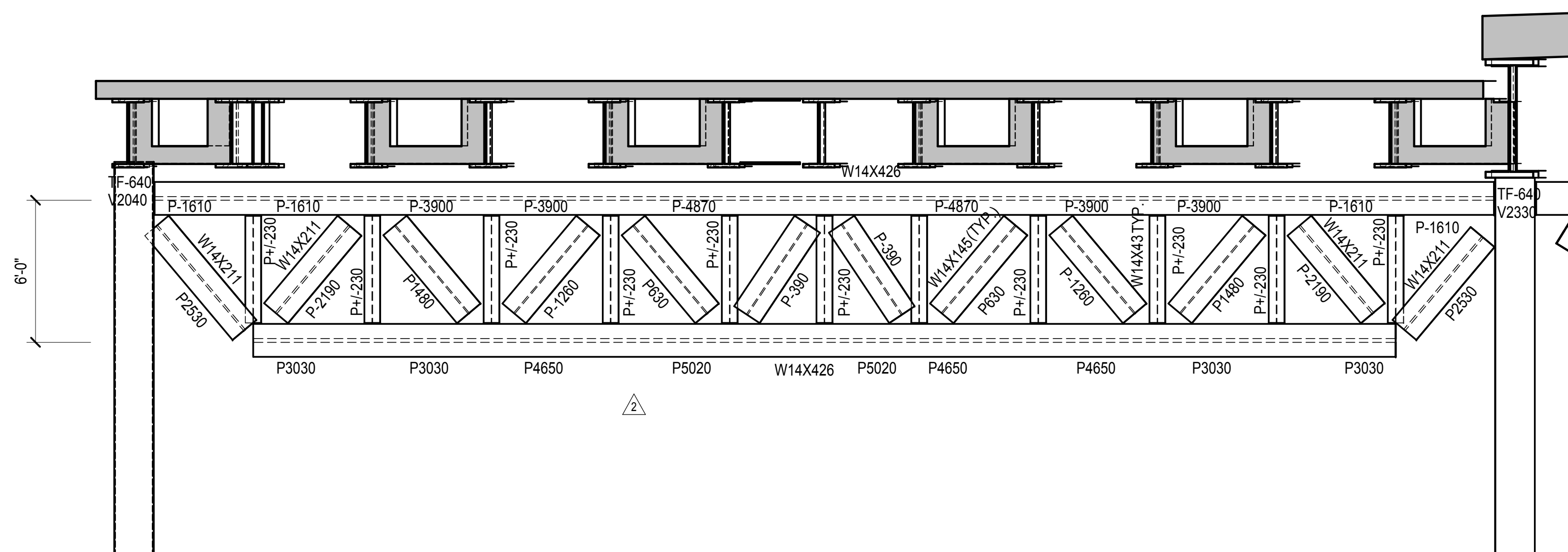
**4 TRUSS T1C ELEVATION**  
1/4" = 1'-0"



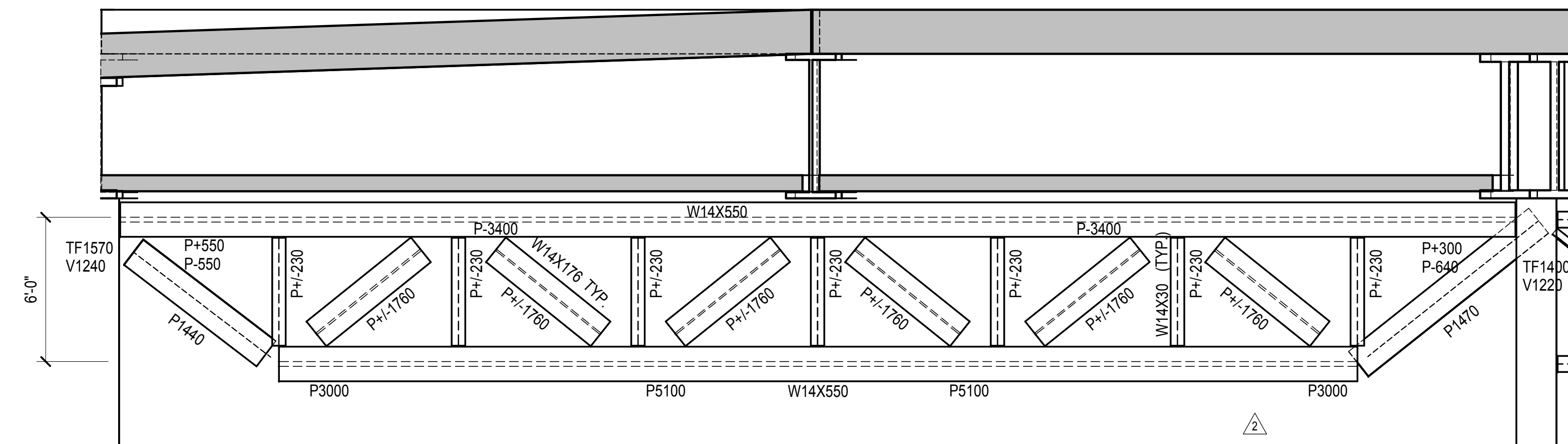
**5 TRUSS T1F ELEVATION**  
1/4" = 1'-0"



**6 TRUSS T2B ELEVATION**  
1/4" = 1'-0"



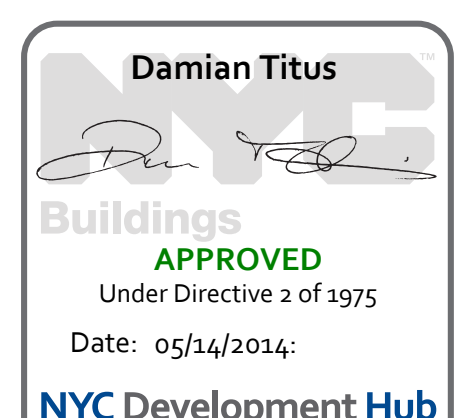
**7 TRUSS T2C ELEVATION**  
1/4" = 1'-0"



**8 TRUSS T2A ELEVATION**  
1/4" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&U - PLATFORM SUBMISSION	
Δ - DL02 PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ - DL01 PHASE I STRUCTURE UPDATE	9/20/2013
L.I.R.R. - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
L.I.R.R. - 60% SUBMISSION	5/29/2013
L.I.R.R. - 60% - PHASE I FDNS	3/29/2013
L.I.R.R. - 30% SUBMISSION	2/15/2013
Rev	Description

Rev Plot

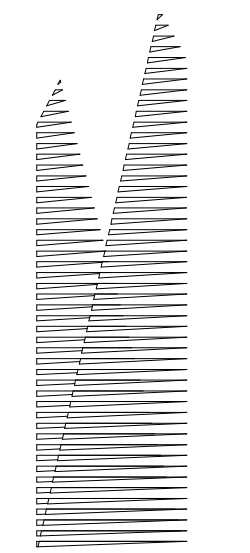


Date: 12/14/2012  
Project No: N11330.00  
Title: Auth  
Sheet Number

**HYE -PL -S-521.00**  
WEST PLATFORM  
TRUSS ELEVATIONS I

NOTES:  
1. GUSSET PLATES AND PLATE GIRDER CONNECTIONS OMITTED FOR CLARITY. REFER TO DRAWING S-523.00 FOR TYPICAL DETAILS





Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Officer Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

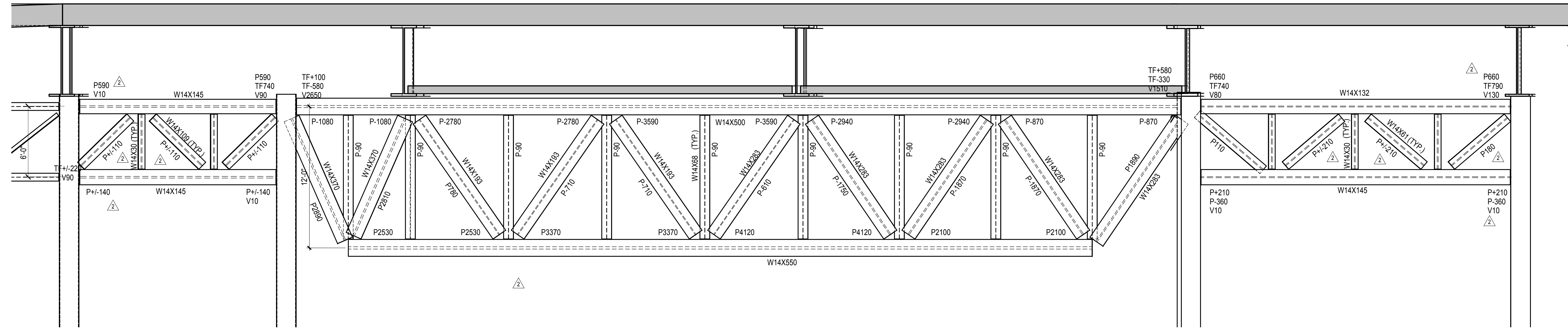
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

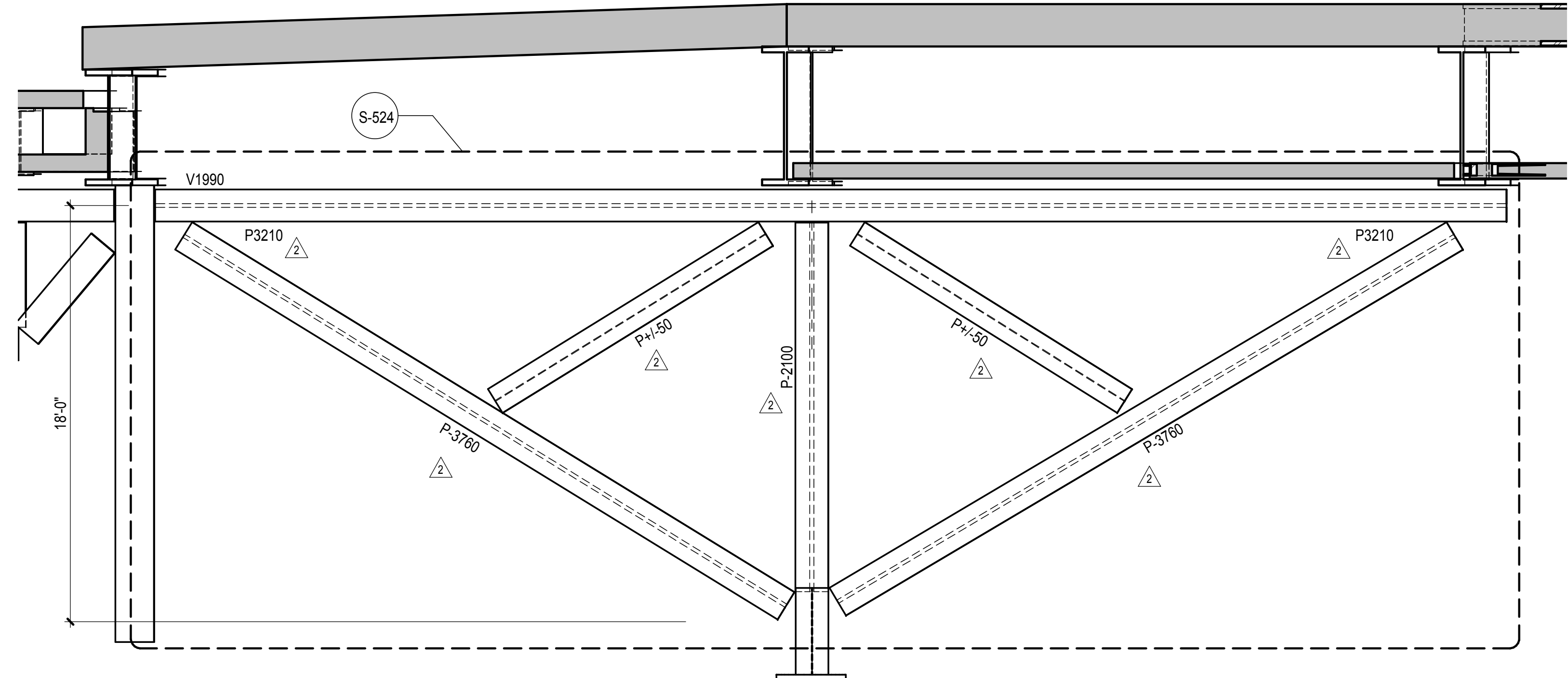
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

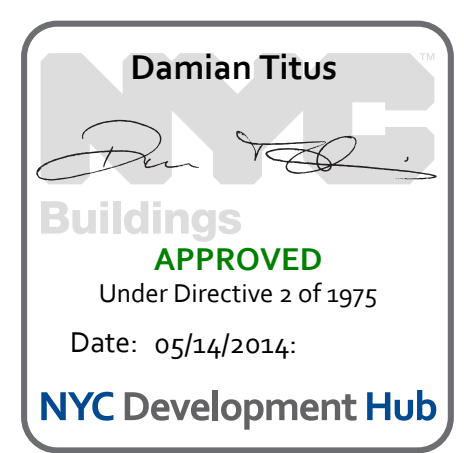


**1 TRUSS T3 ELEVATION**  
1/4" = 1'-0"



**2 CANTILEVER TRUSS ELEVATION**  
1/4" = 1'-0"

NOTES:  
1. GUSSET PLATES AND PLATE GIRDER CONNECTIONS OMITTED FOR CLARITY. REFER TO DRAWING S-523.00 FOR TYPICAL DETAILS



No.	Description	Date
NYC DOB FILING	100%	12/4/2013
L.I.R.R. - PRE-FINAL SUBMISSION		11/22/2013
M&T - PLATFORM SUBMISSION		
Δ - DR-02 PHASE 1 STRUCTURAL UPDATE		11/1/2013
NYC DOB FILING		10/4/2013
Δ - DR-01 PHASE 1 STRUCTURE UPDATE		9/20/2013
L.I.R.R. - 90% SUBMISSION		8/09/2013
NYC DOB FILING		6/17/2013
L.I.R.R. - 60% SUBMISSION		5/29/2013
L.I.R.R. - 60% - PHASE 1 FDNS		3/29/2013
L.I.R.R. - 30% SUBMISSION		2/15/2013

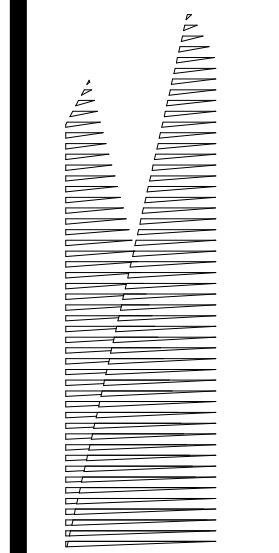
Rev Plot

Date: 12/14/2012  
Project No: N11330.00  
Author:

**HYE - PL - S-522.00**  
Drawing Title  
**WEST PLATFORM TRUSS ELEVATIONS II**

Drawing Number / Revision Drawing Number  
**S-522.00**





Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Officed Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

Architect  
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PC Architects & Planning Consultants  
11 West 42nd Street  
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Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
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Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
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LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AJECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973-9200 Fax: 212.682.6172

NYC DOB FILING 12/4/2013

L.I.R.R. - PRE-FINAL 100% 11/22/2013

M&T - PLATFORM SUBMISSION 11/1/2013

Δ - DR-02 PHASE I STRUCTURAL UPDATE 11/1/2013

NYC DOB FILING 10/4/2013

Δ - DR-01 PHASE I STRUCTURE UPDATE 9/20/2013

L.I.R.R. - 90% SUBMISSION 8/09/2013

NYC DOB FILING 6/17/2013

L.I.R.R. - 60% SUBMISSION 5/29/2013

L.I.R.R. - 60% - PHASE I FDNS 3/29/2013

L.I.R.R. - 30% SUBMISSION 2/15/2013

NYC DOB FILING 12/4/2013

NYC DOB FILING 12/4/2013

NYC DOB FILING 12/4/2013

NYC DOB FILING 12/4/2013

NYC DOB FILING 12/4/2013

NYC DOB FILING 12/4/2013

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NYC DOB FILING 12/4/2013

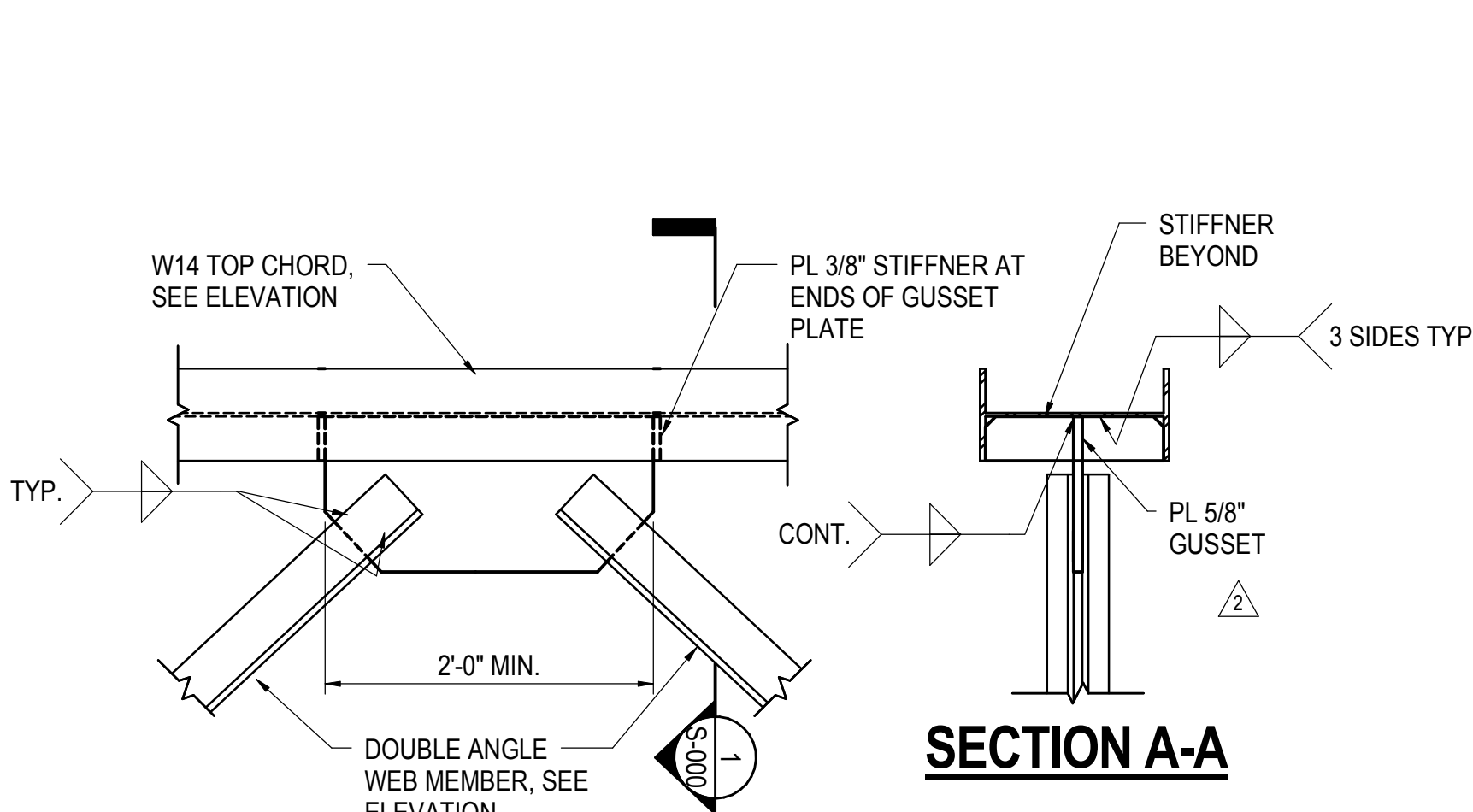
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NYC DOB FILING 12/4/2013

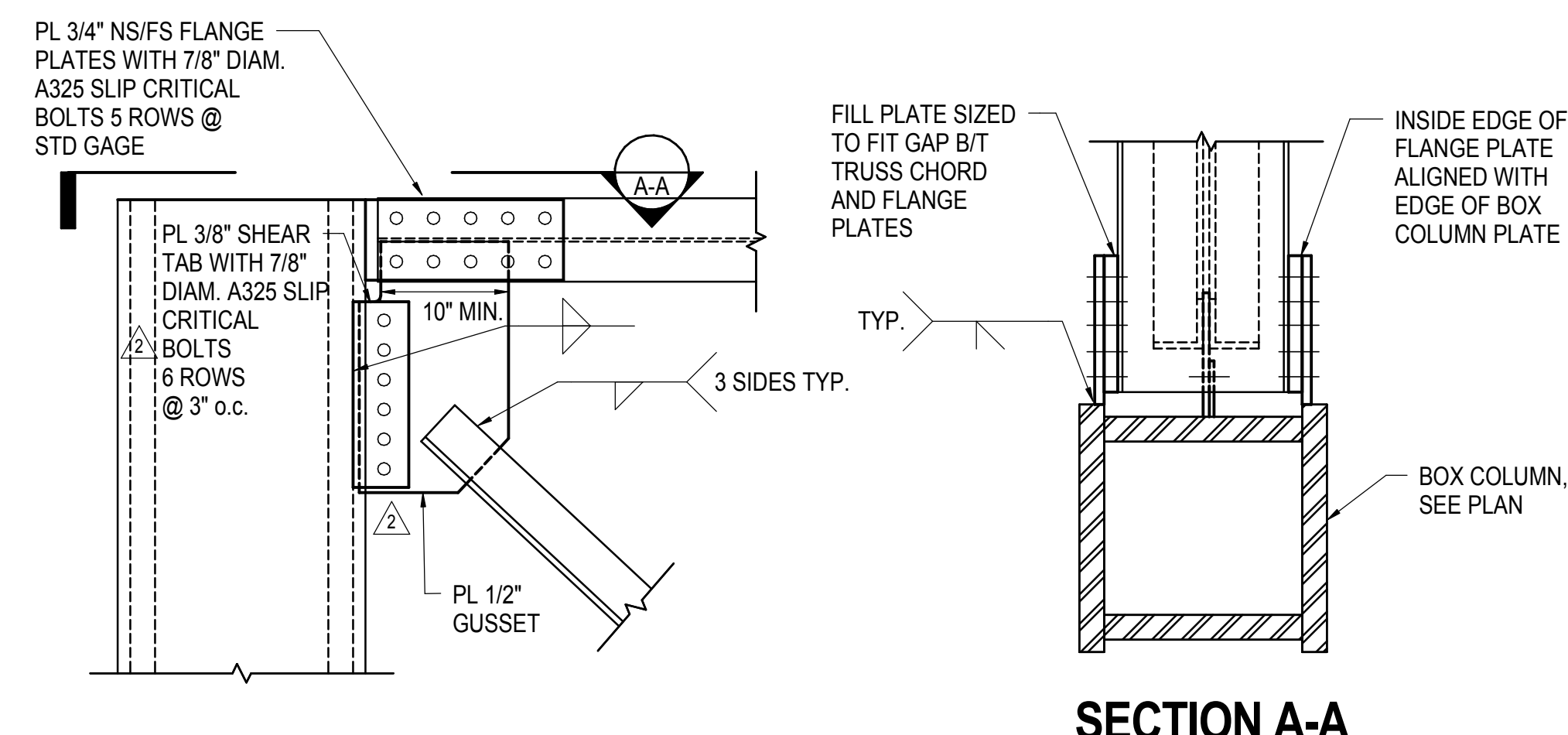
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NYC DOB FILING 12/4/2013

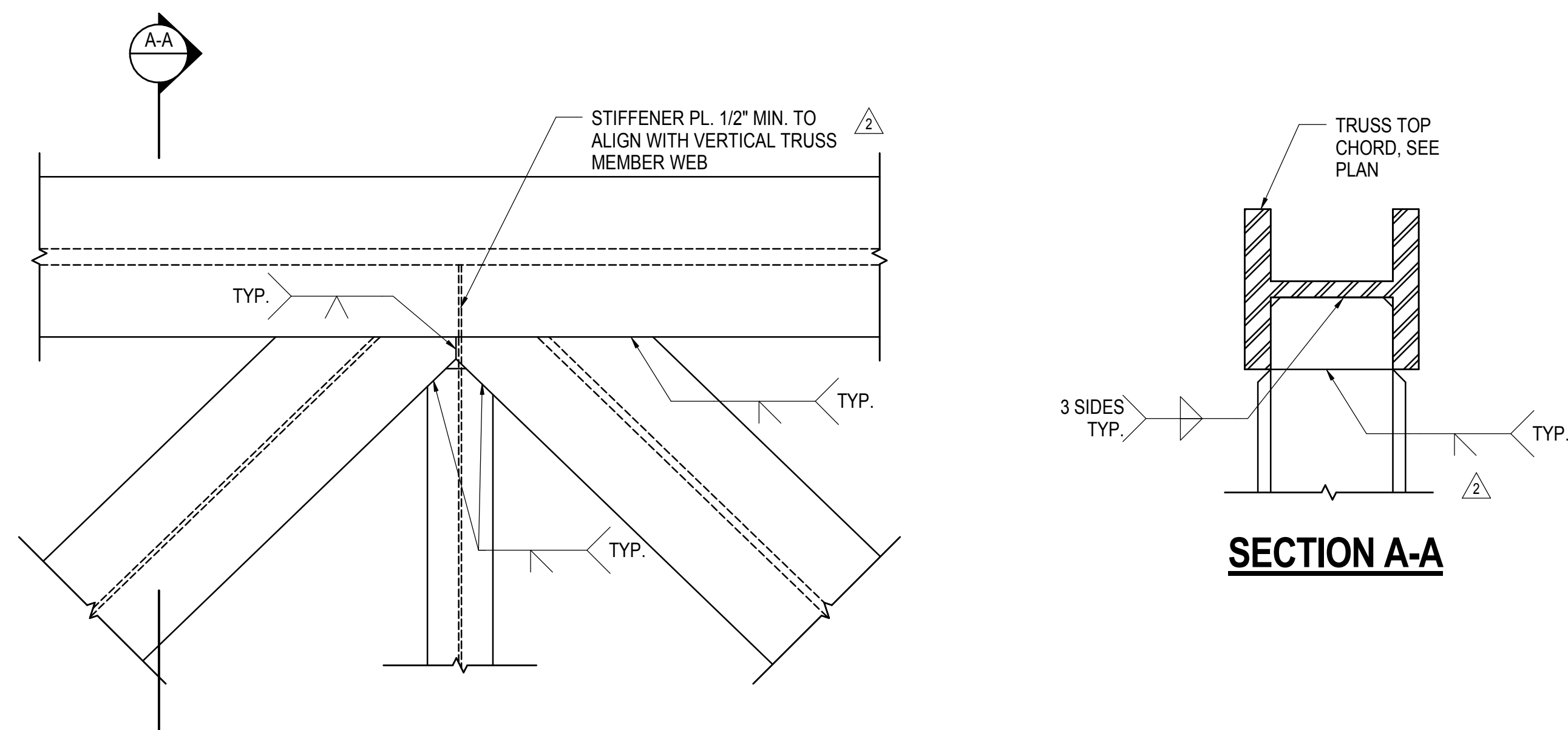
NYC DOB FILING 12/4/2013



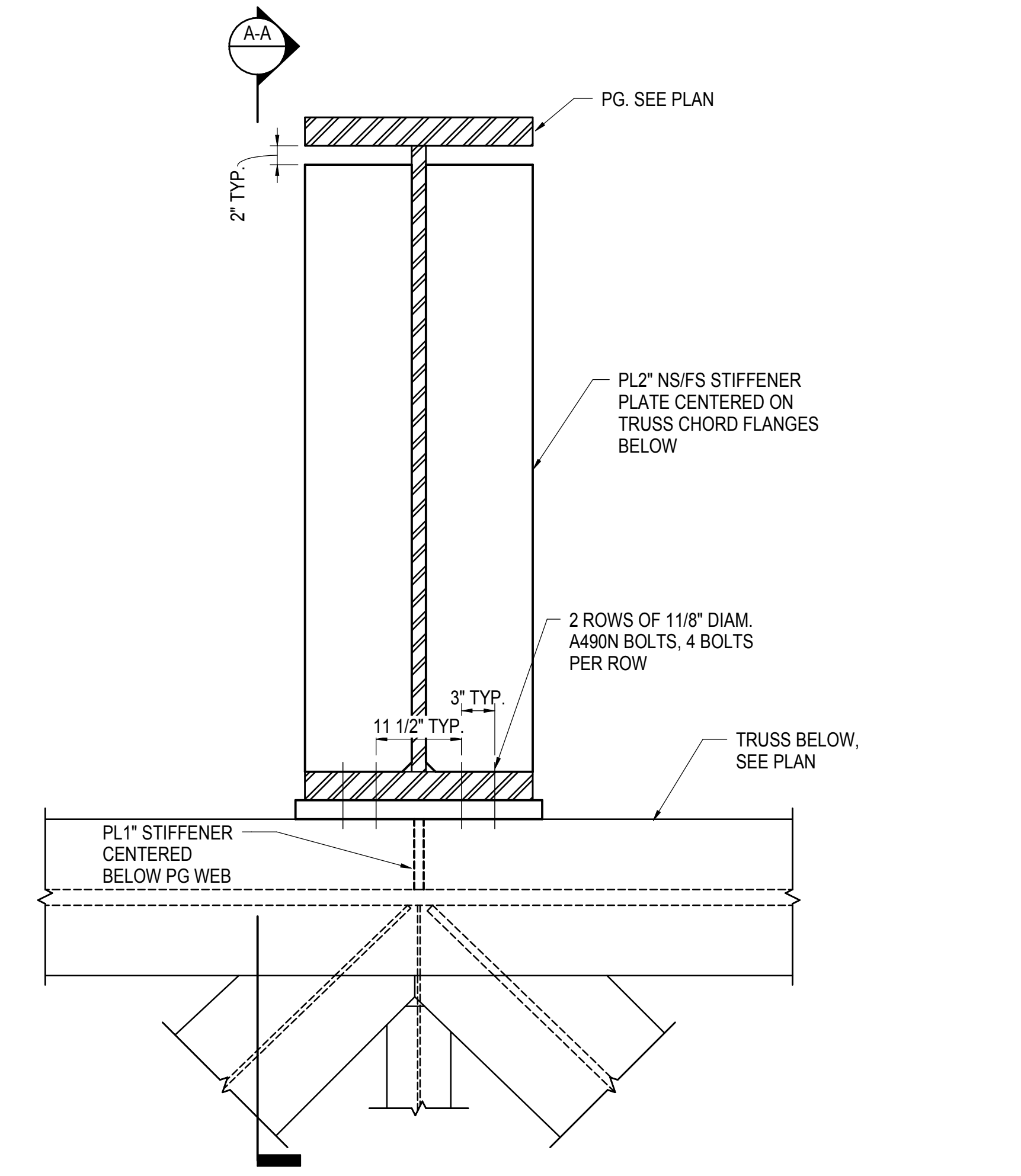
**1 TYPICAL T1 TRUSS NODE**  
1" = 1'-0"



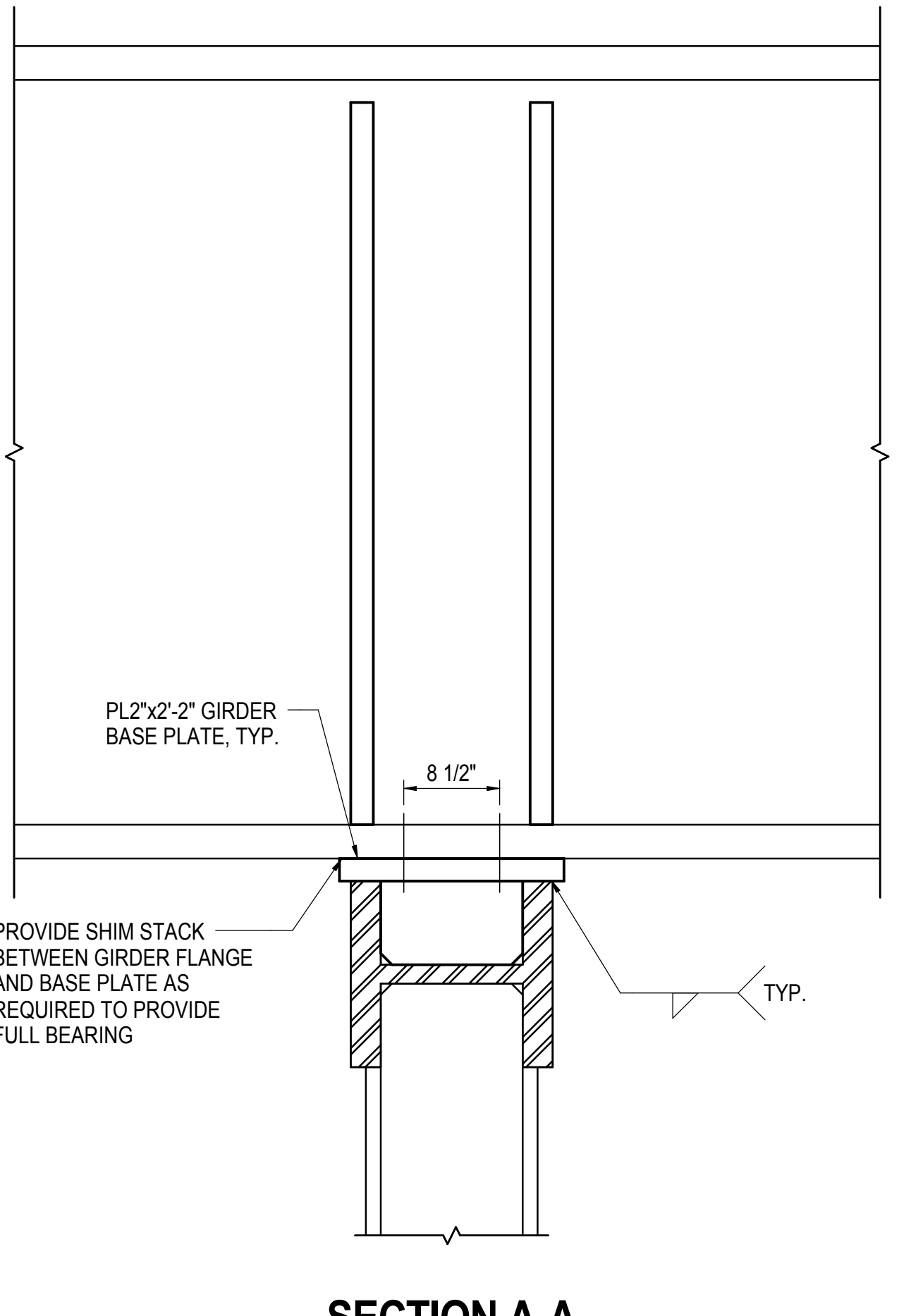
**2 TYPICAL T1 TRUSS END NODE**  
1" = 1'-0"



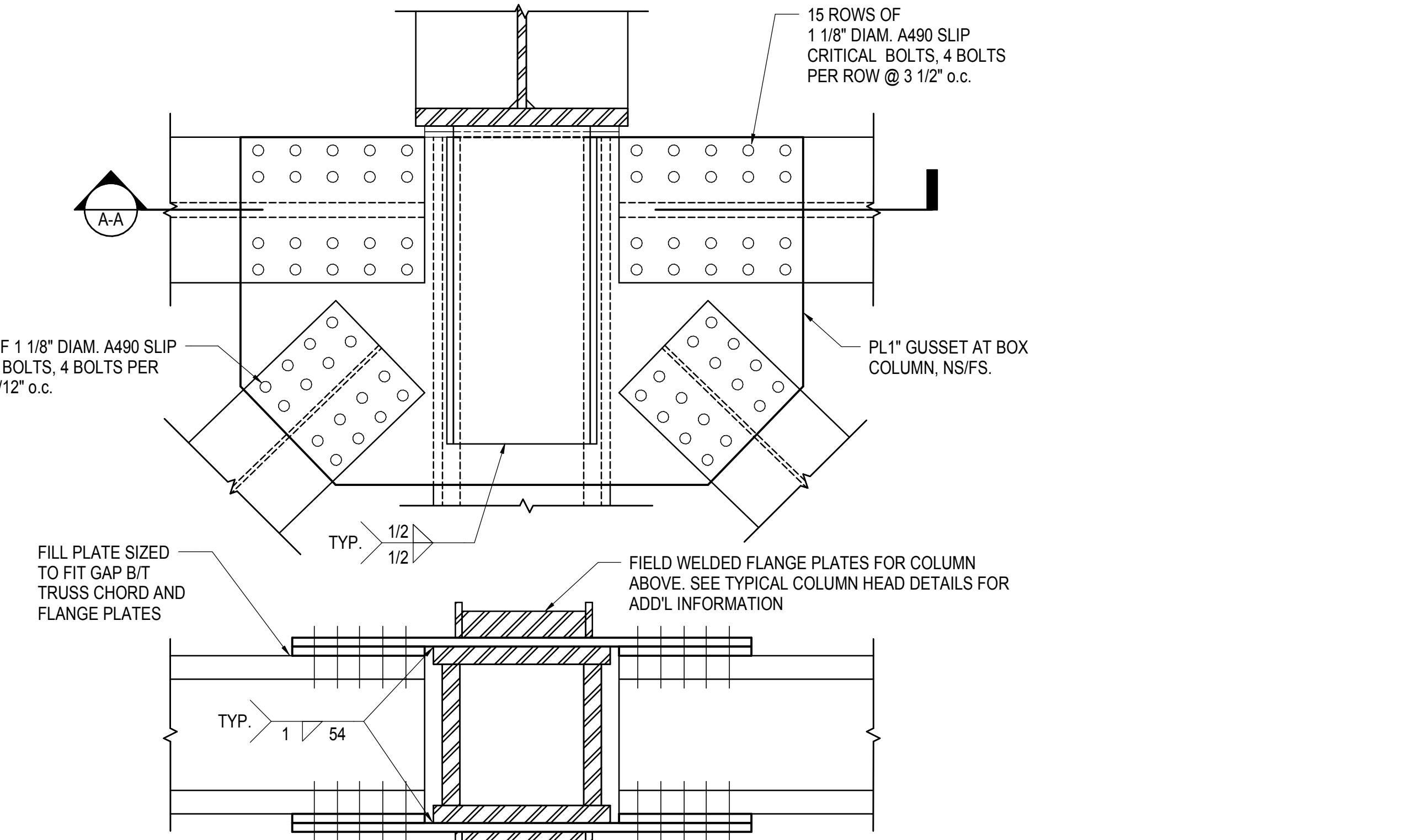
**3 TYPICAL WIDE FLANGE SHOP WELDED TRUSS NODE CONNECTION**  
1" = 1'-0"



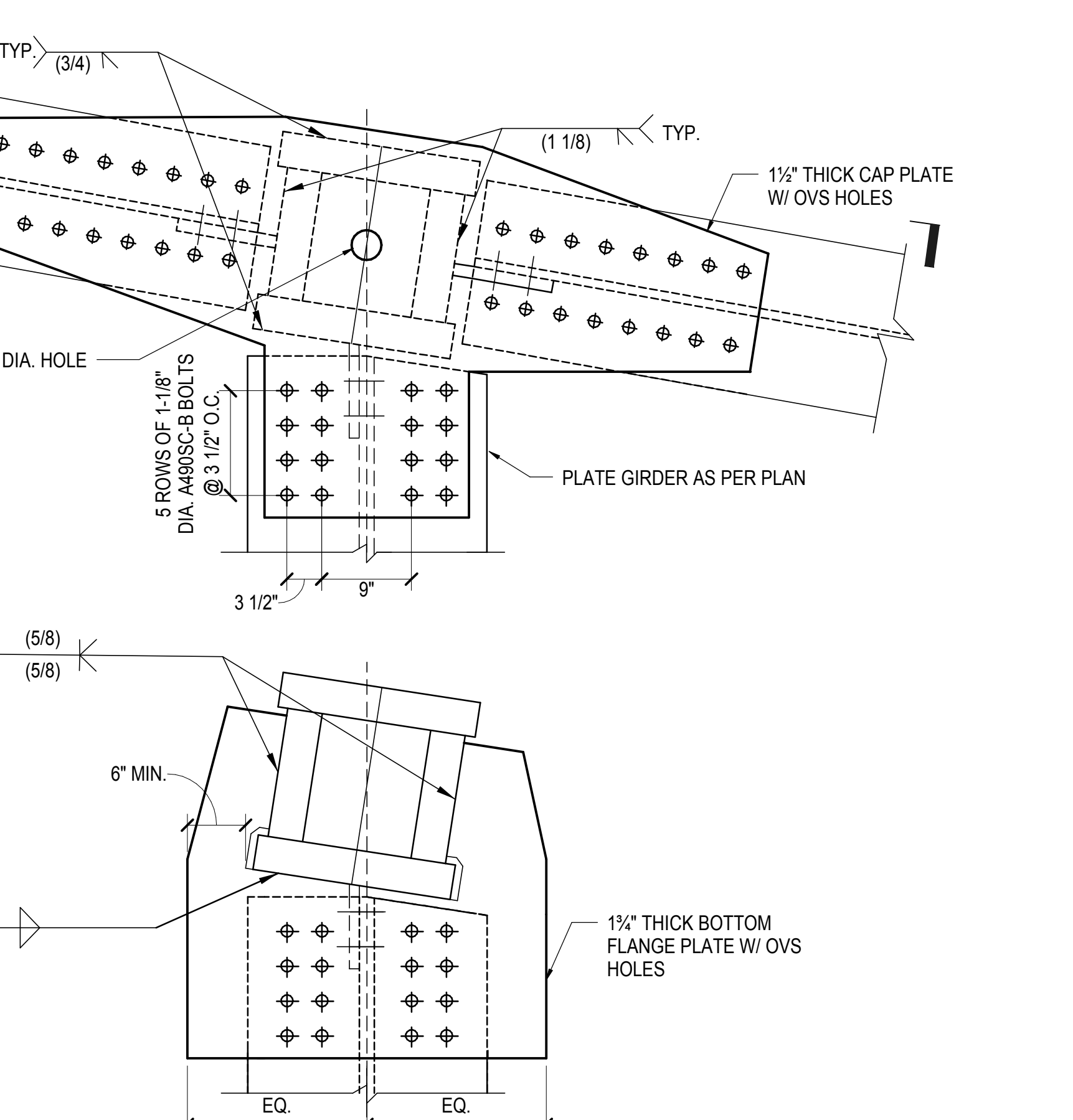
**4 TYPICAL PLATE GIRDER OVER TRUSS NODE CONNECTION**  
1" = 1'-0"



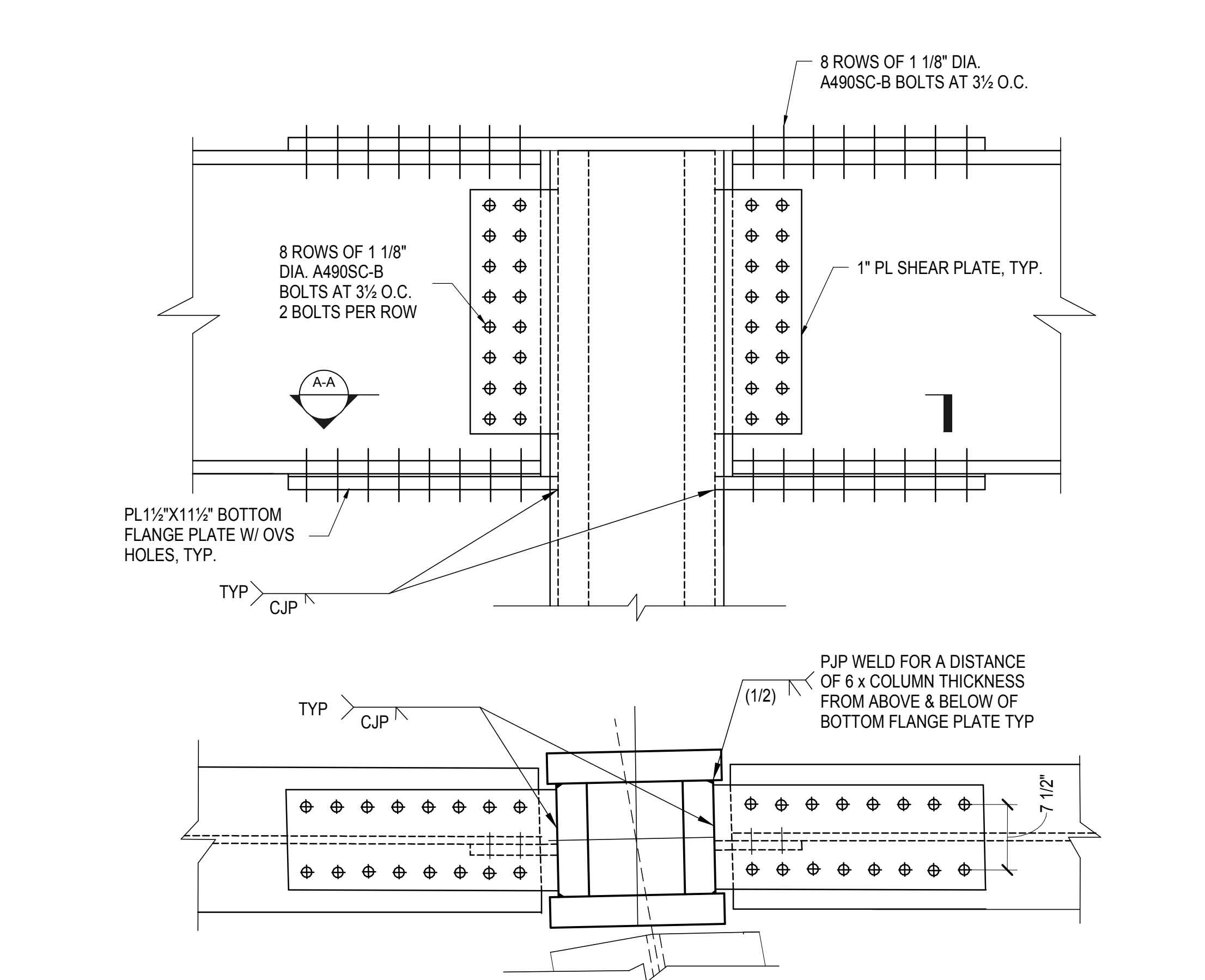
**5 WIDE FLANGE TO BOX COLUMN MOMENT CONNECTION**  
1" = 1'-0"



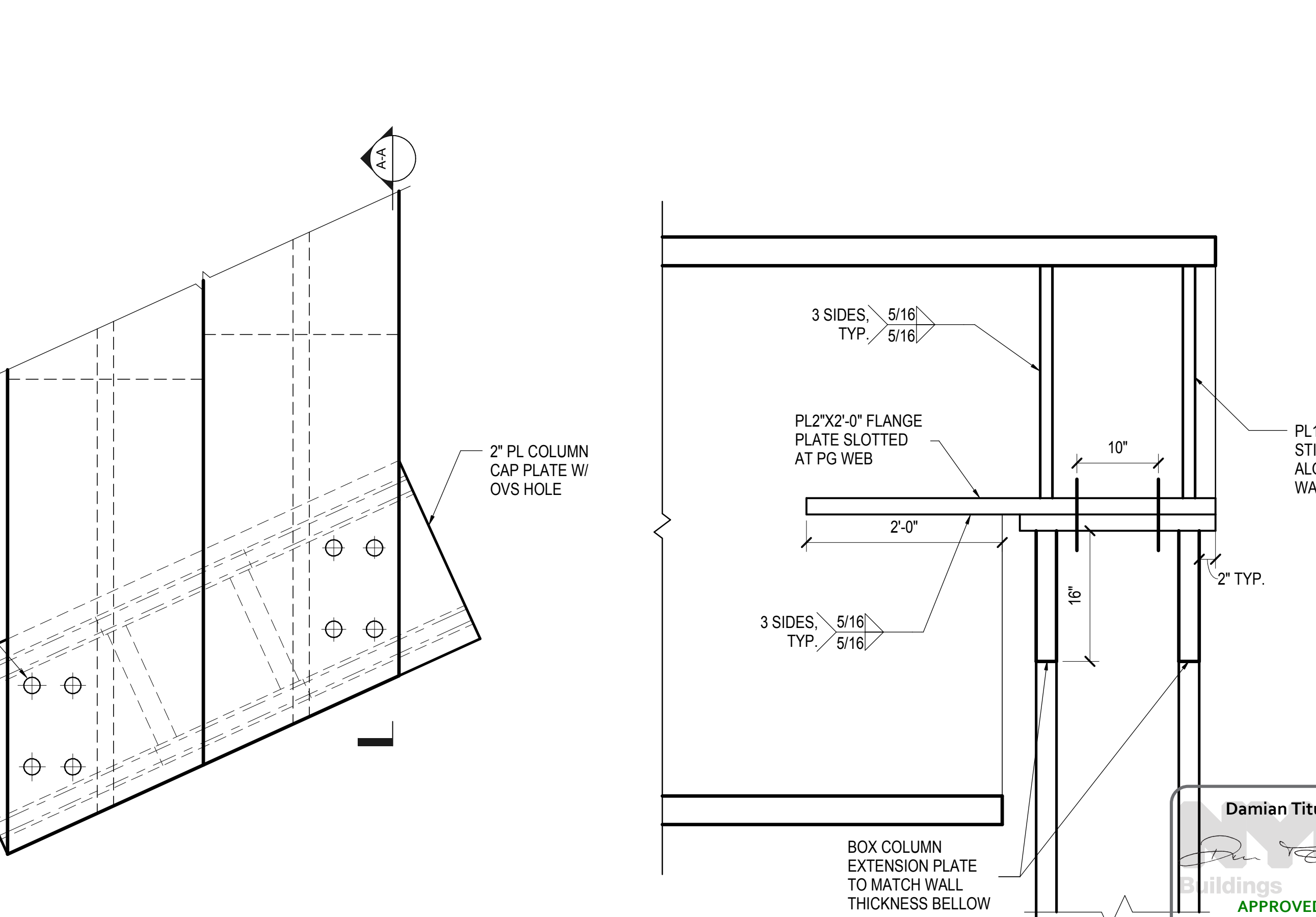
**6 TYPICAL WIDE FLANGE FIELD BOLTED TRUSS END NODE CONNECTION**  
1" = 1'-0"



**7 PLATE GIRDER CAP PLATE AND FLANGE PLATE TO COLUMN MOMENT CONNECTION**  
1" = 1'-0"

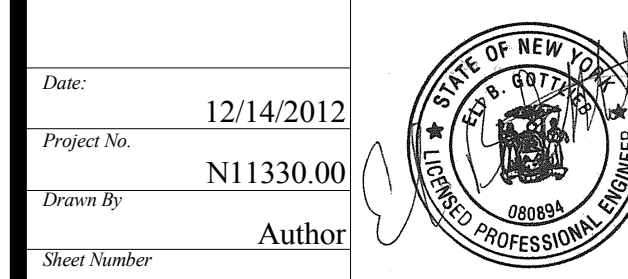


**8 WIDE FLANGE TO BOX COLUMN MOMENT CONNECTION**  
1" = 1'-0"



**9 PLATE GIRDER CAP PLATE AND FLANGE PLATE TO COLUMN MOMENT CONNECTION**  
1" = 1'-0"

Damian Titus  
APPROVED  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub

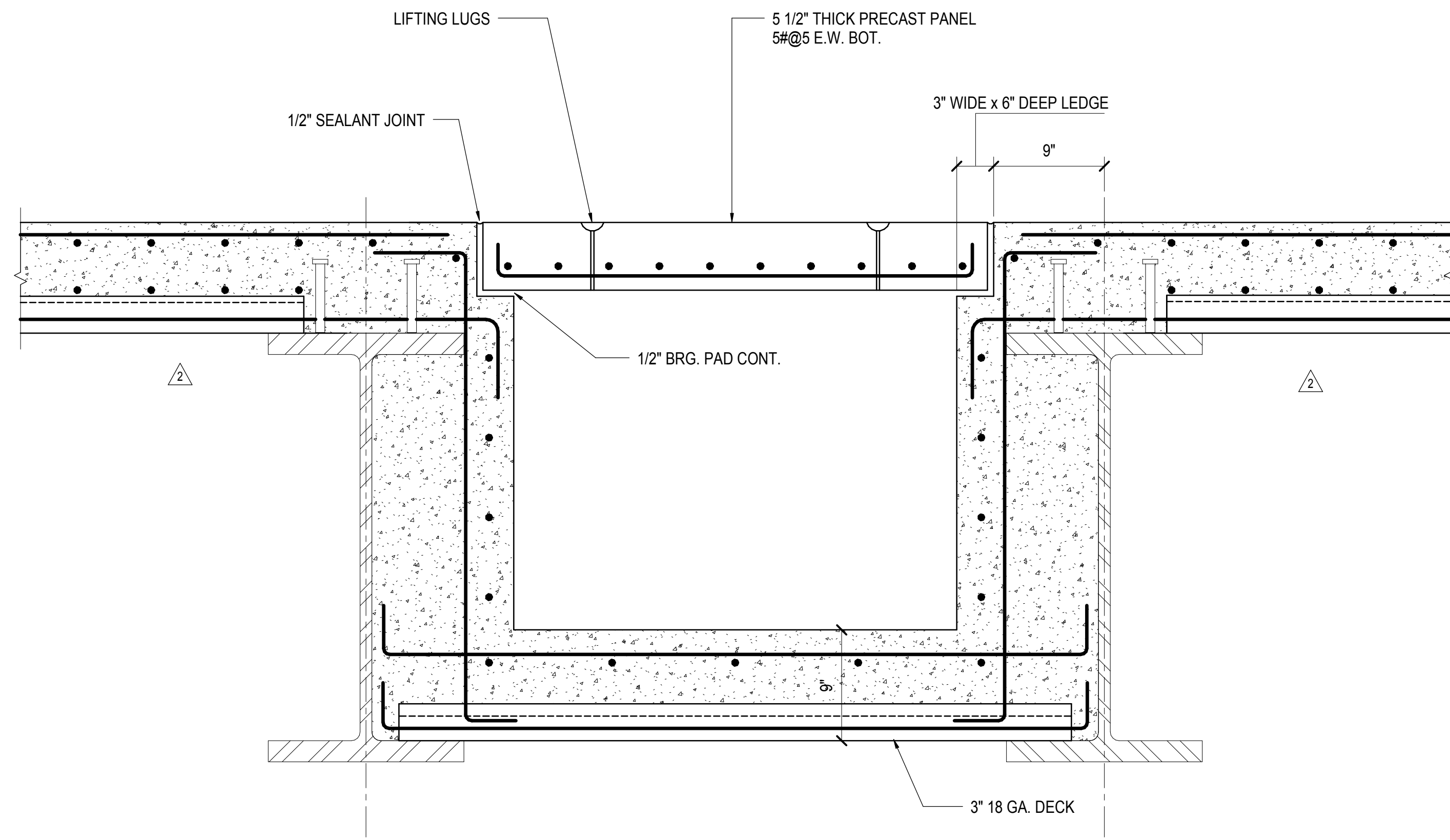


**HYE - PL - S-523.00**  
WEST PLATFORM TRUSS DETAILS





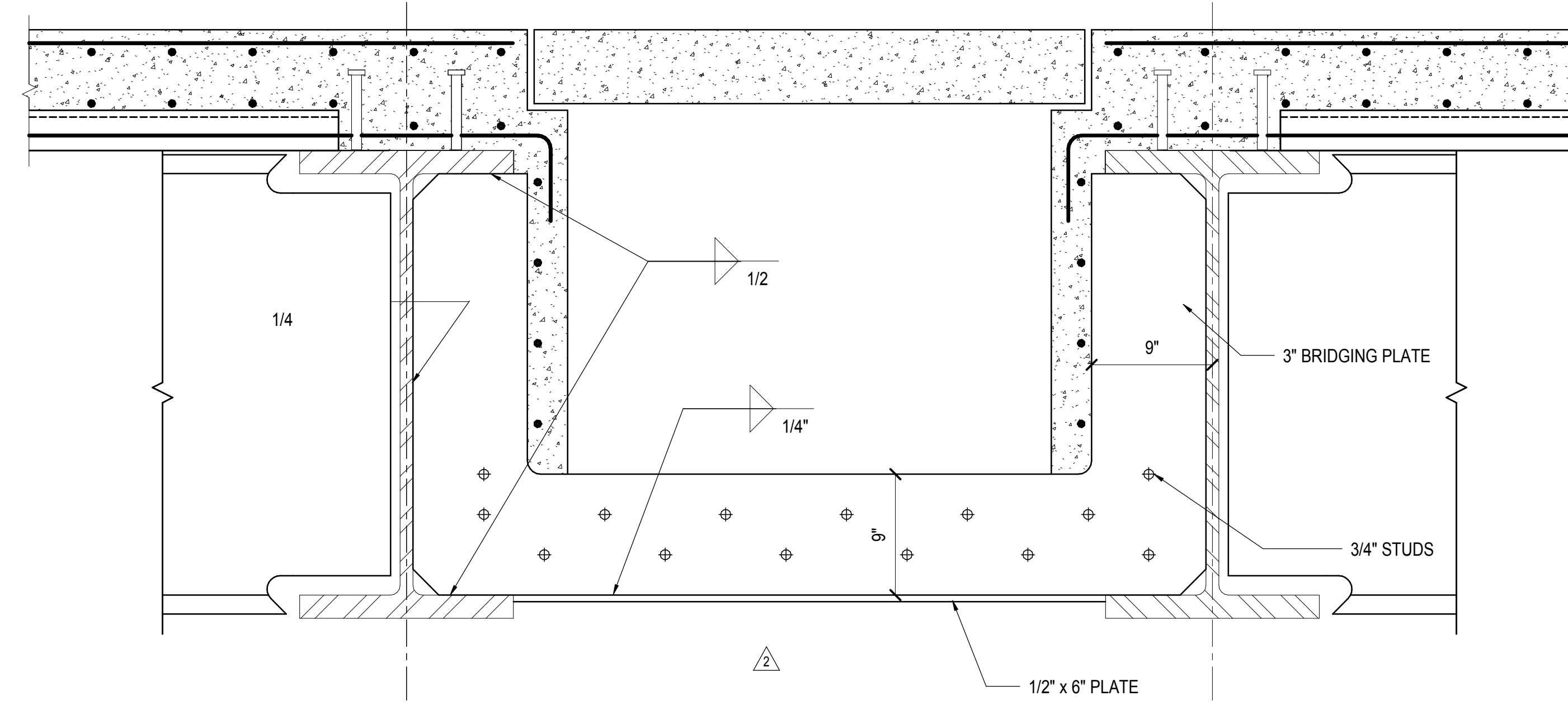




1 SECTION AT UTILITY TRENCH

1/12" = 1'-0"

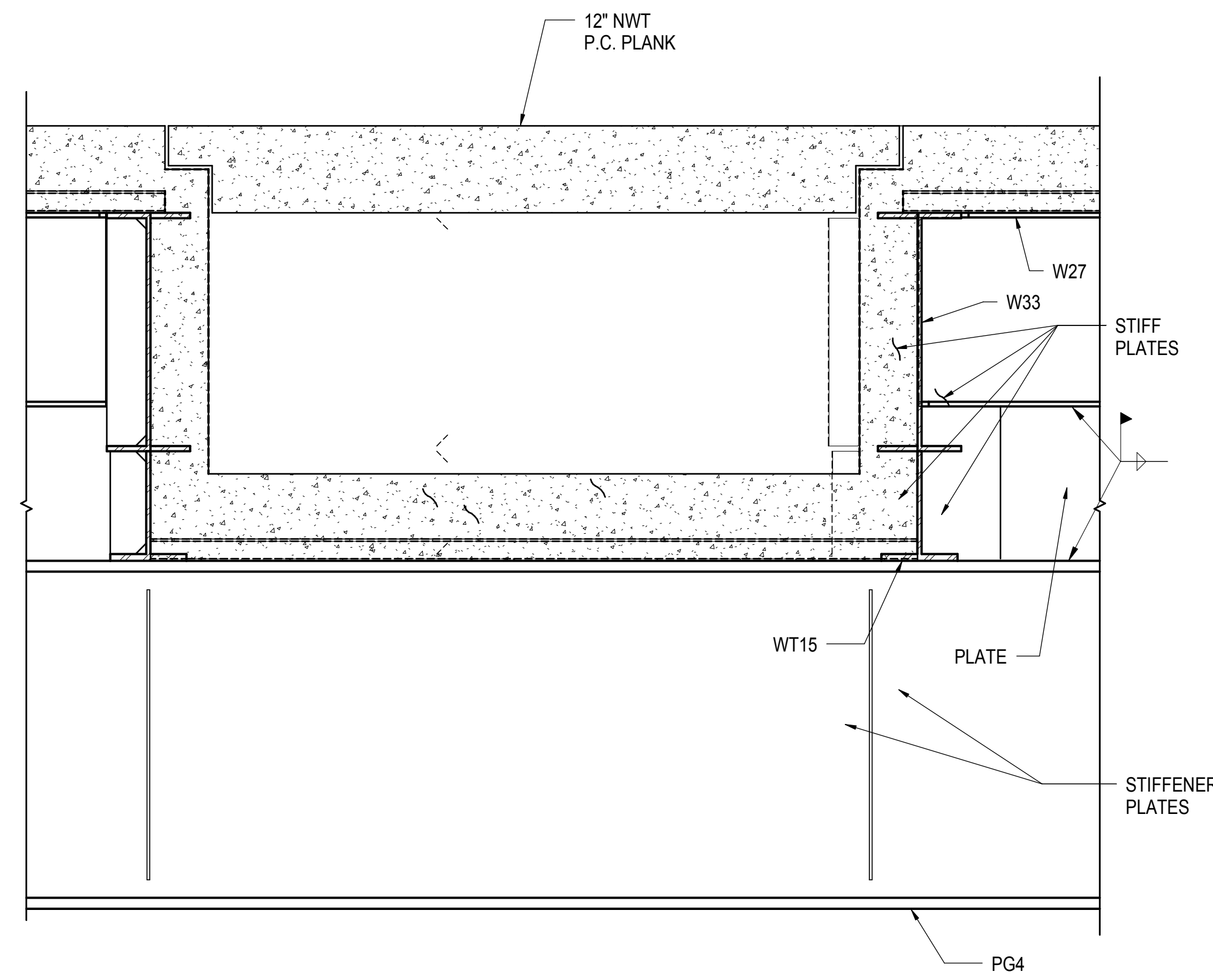
NOTE: REINFORCEMENT SHOWN INDICATIVELY. MIN REINFORCEMENT REQUIREMENTS PER S2 SLAB TYPE APPLY.



2 SECTION AT BRIDGING IN UTILITY TRENCH

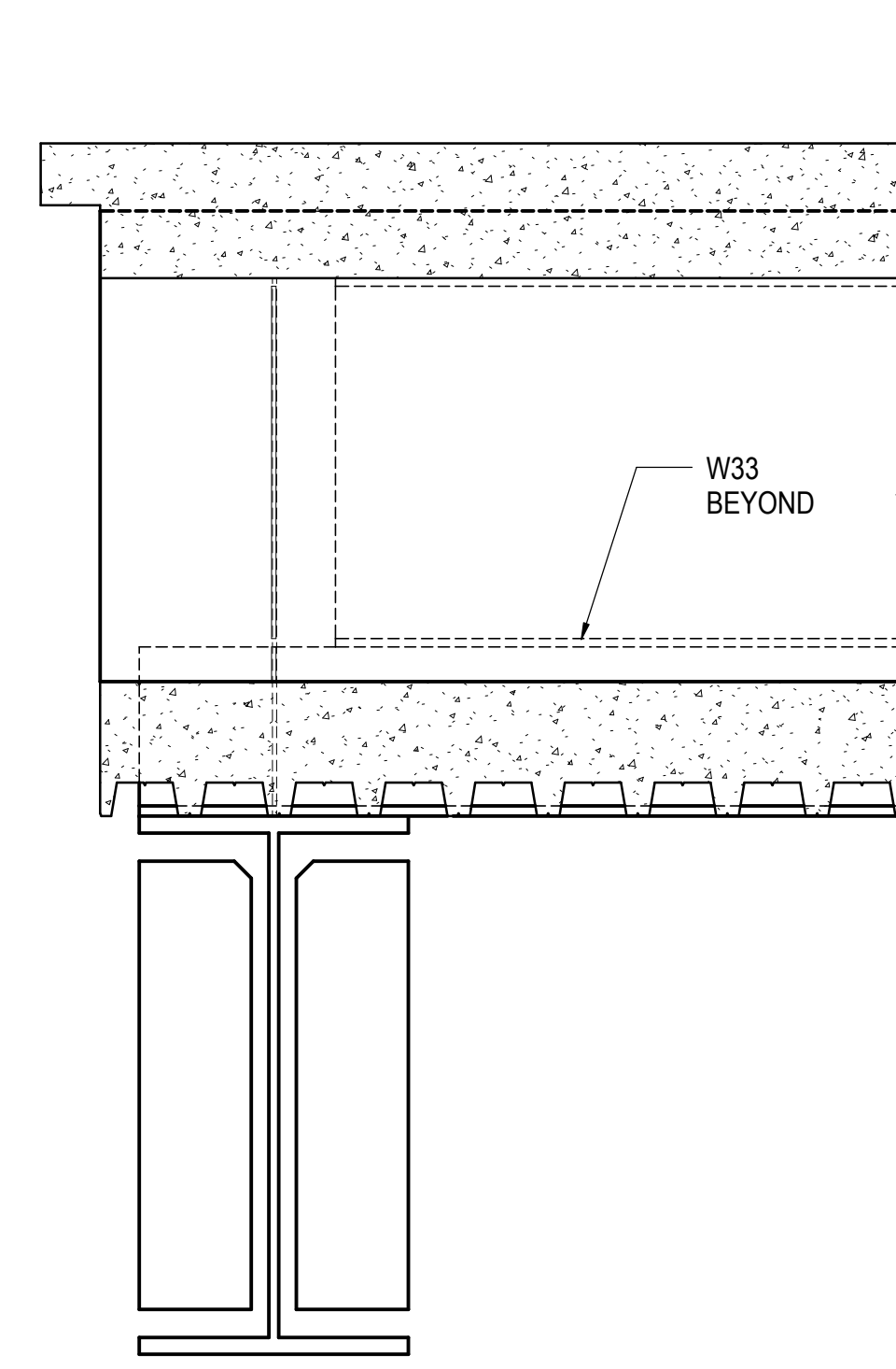
1/12" = 1'-0"

NOTE: BRIDGING DETAIL APPLICABLE AT EVERY LINE OF TRANSVERSE FRAMING IN THE WEST GRID AREA (BETWEEN PA AND PC) TO PROVIDE CONTINUITY IN THE EAST-WEST DIRECTION THROUGH THE UTILITY TRENCHES.  
REINFORCEMENT SHOWN INDICATIVELY. MIN REINFORCEMENT REQUIREMENTS PER S2 SLAB TYPE APPLY.



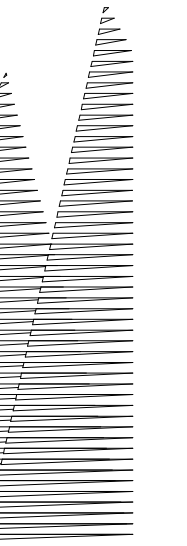
3 TYPICAL P.O.E. TRENCH AT STEEL FRAME

3/4" = 1'-0"



4 SECTION B-B

3/4" = 1'-0"



Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Owner  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
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Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

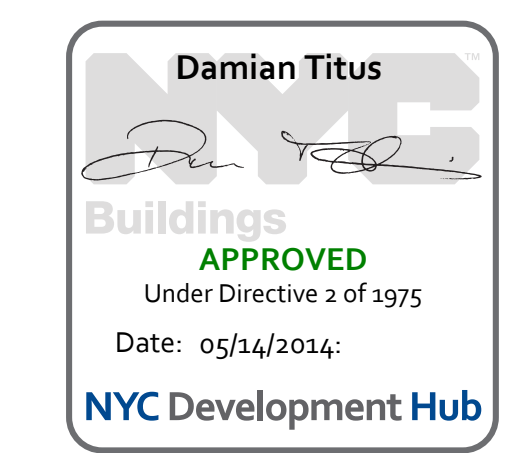
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

File No.	Description	Date
NYC DOB FILING	100%	12/4/2013
LIRR - PRE-FINAL	100%	11/22/2013
M&T - PLATFORM SUBMISSION		
Δ - D-02 PHASE 1 STRUCTURAL UPDATE		11/1/2013
NYC DOB FILING		10/4/2013
Δ - D-01 PHASE 1 STRUCTURE UPDATE		9/20/2013
LIRR - 90% SUBMISSION		8/09/2013
NYC DOB FILING		6/17/2013
LIRR - 60% SUBMISSION		5/29/2013
LIRR - 60% - PHASE 1 FDNS		3/29/2013
LIRR - 30% SUBMISSION		2/15/2013

Rev. Plot



Date: 12/14/2012  
Project No: N11330.00  
Drawn By: Author  
Sheet Number: 147 OF 201

HYE -PL -S-530.00  
Drawing Title  
TRENCH SECTIONS AND DETAILS

Drawing Number / Revision Drawing Number  
S-530.00

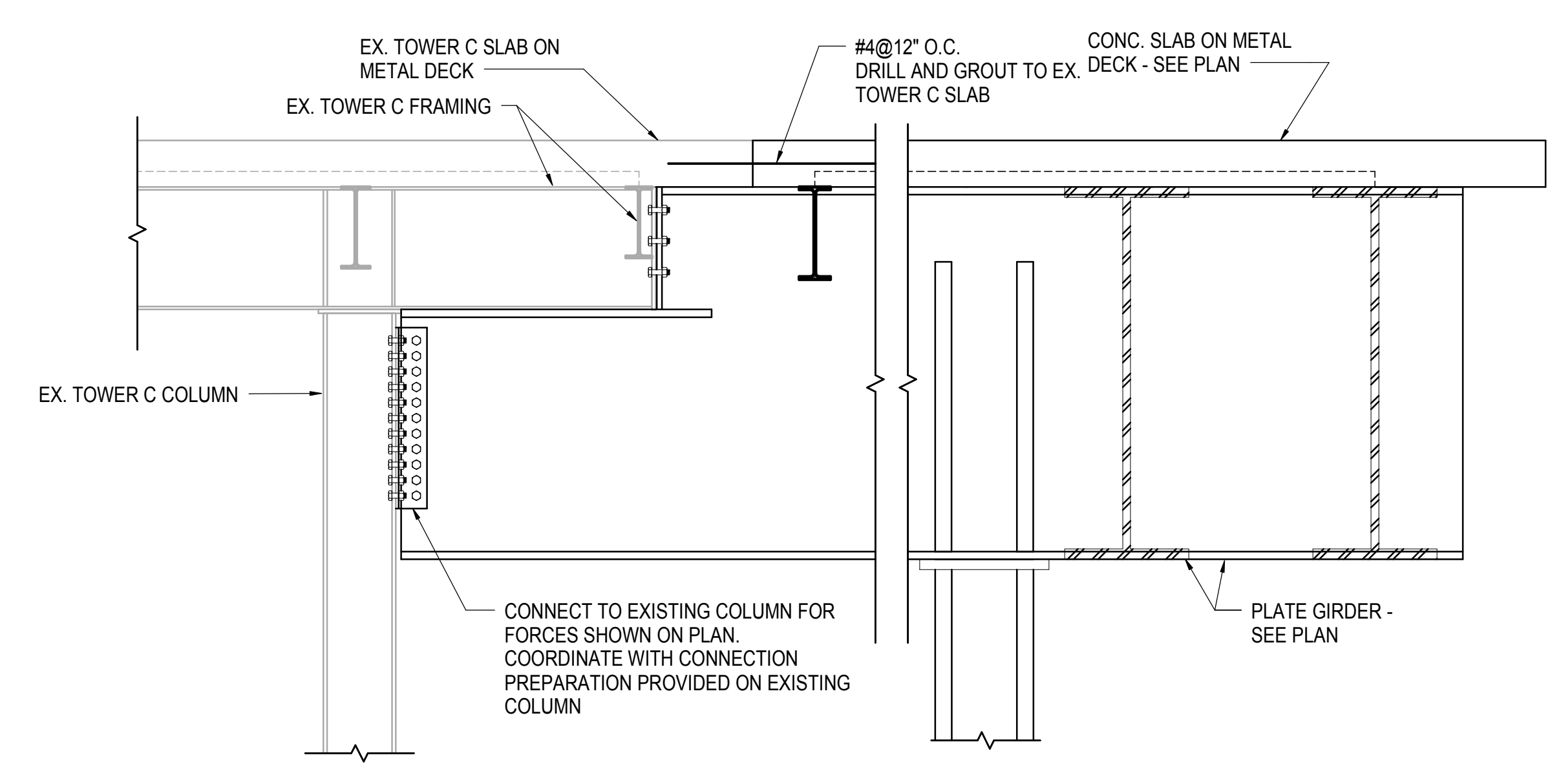


NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
MoE - PLATFORM SUBMISSION	Done
MoE - Description	Done

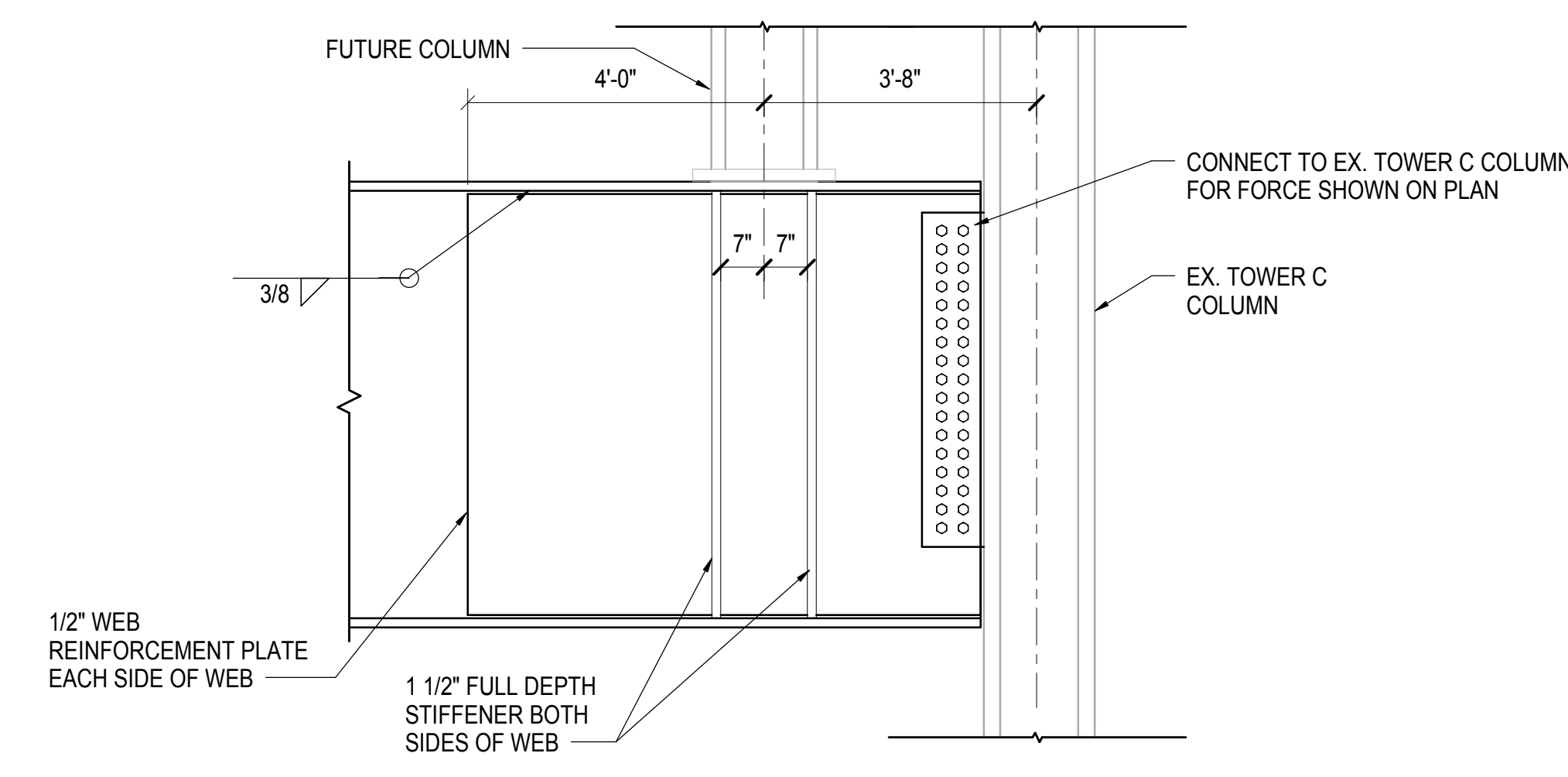
Date	11/01/13
Project No.	N11330.00
Drawn By	Author
Sheet Number	

**HYE-PL-S-540.00**  
Drawing Title  
**TOWER C INFILL  
SECTIONS AND  
DETAILS**

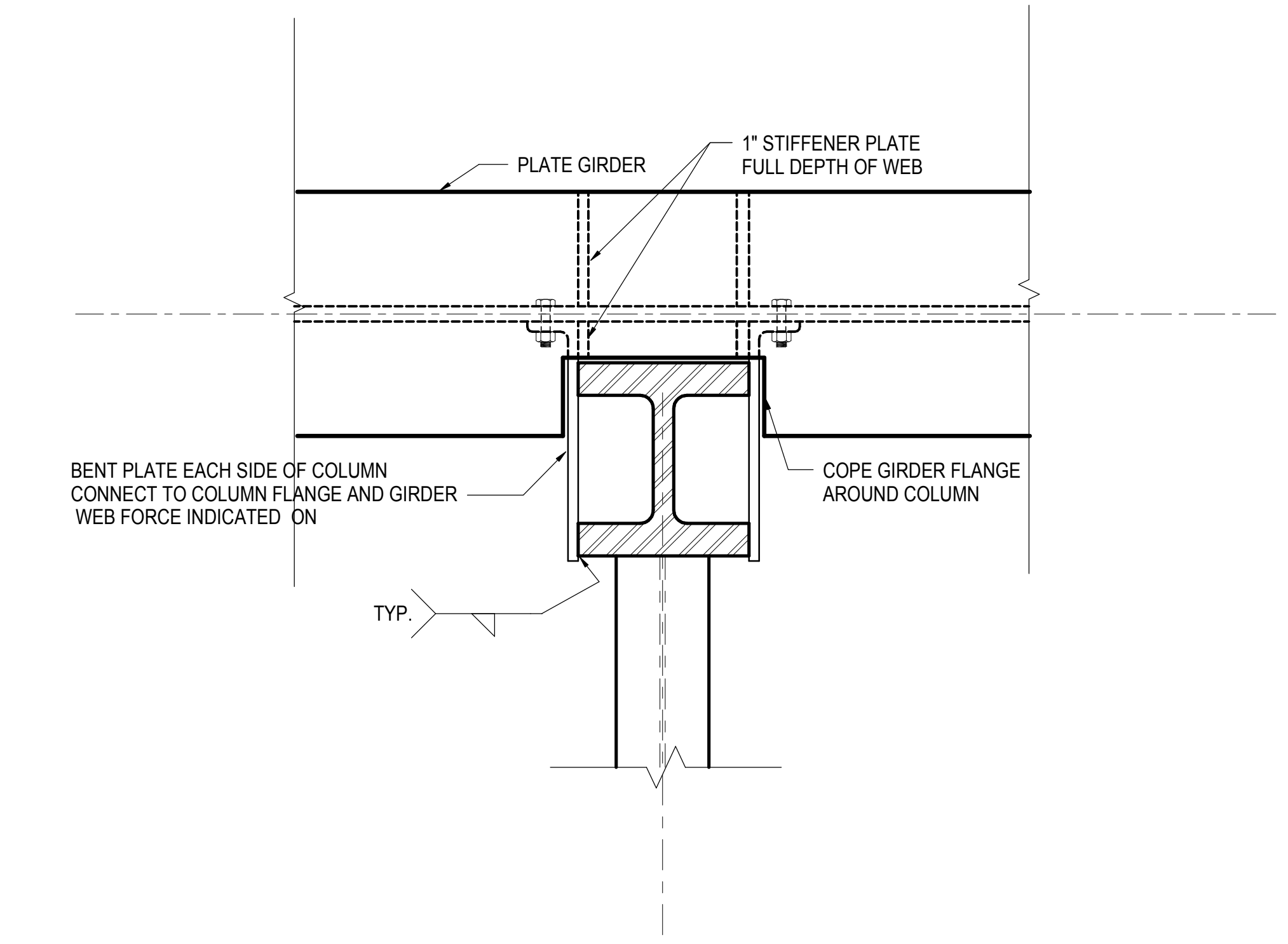
Drawing Number / BSCAN Drawing Number  
**S-540.00**  
SHEET 148 OF 201



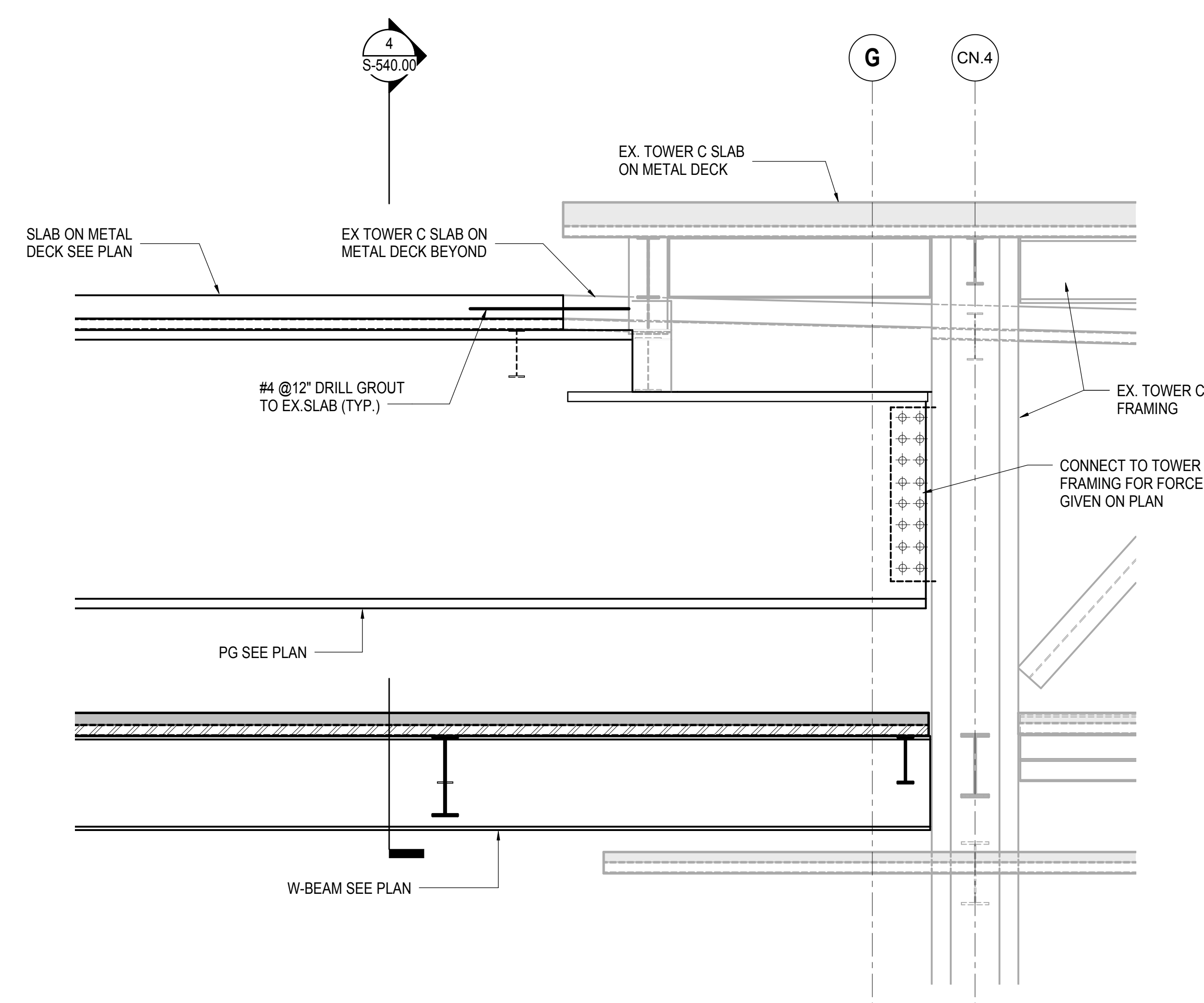
**1 SECTION AT CONNECTION TO TOWER C**  
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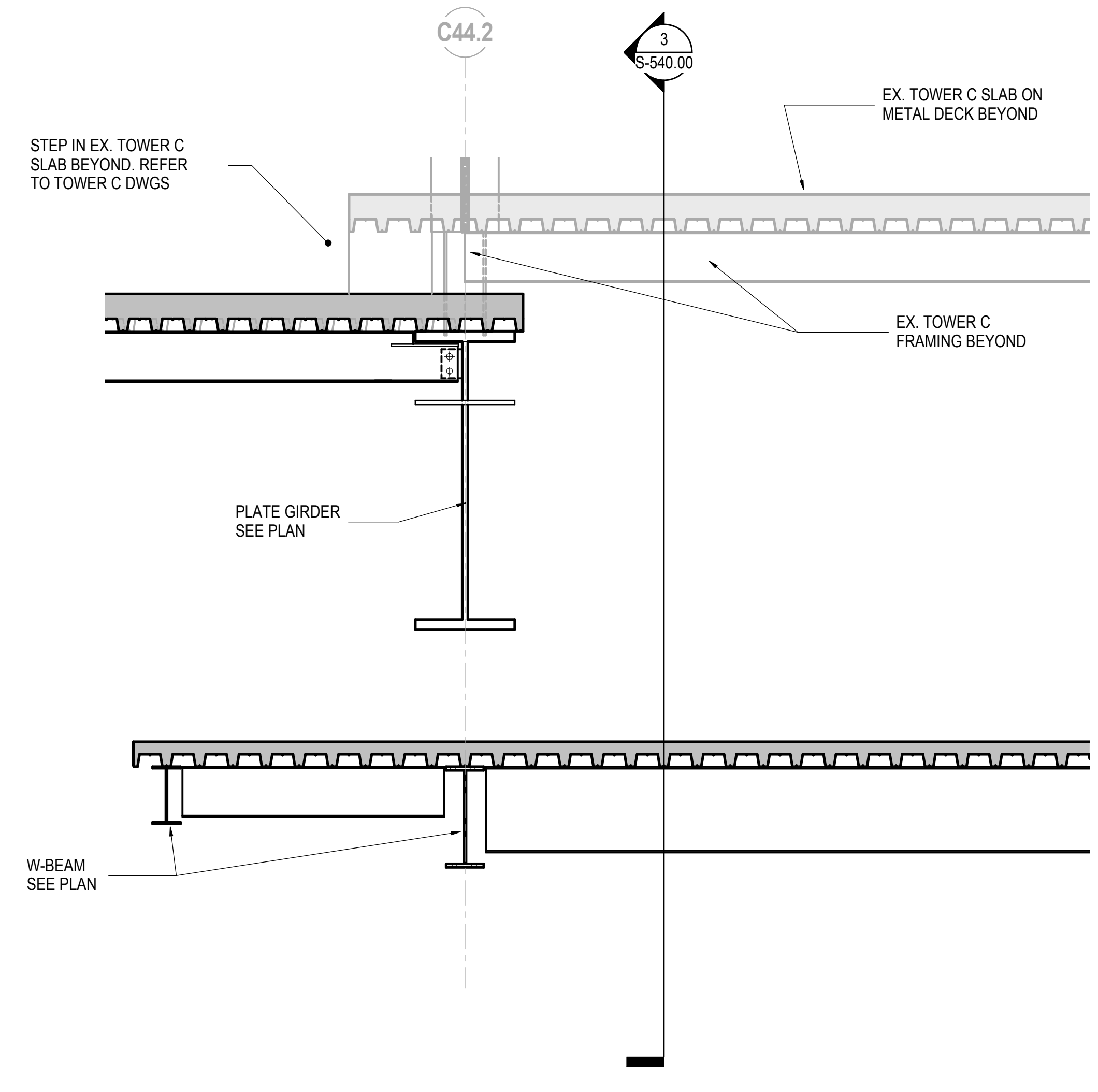
**2 SECTION AT FUTURE COLUMN TRANSFER**  
1/2" = 1'-0"



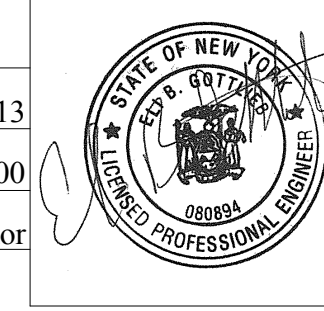
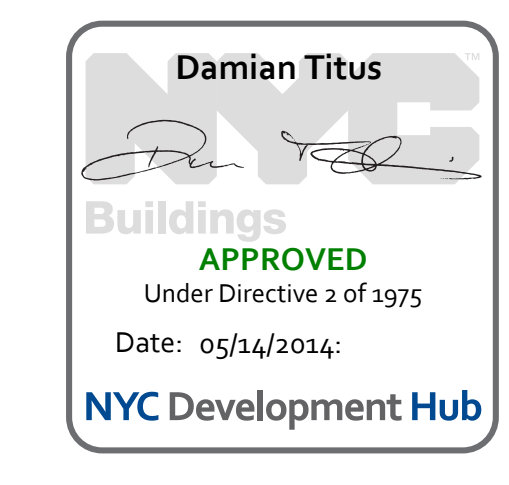
**5 PLAN DETAIL AT OFFSET GIRDER TO COLUMN CONNECTION**  
1" = 1'-0"



**3 SECTION AT CONNECTION TO TOWER C GRID 44.2**  
1/2" = 1'-0"



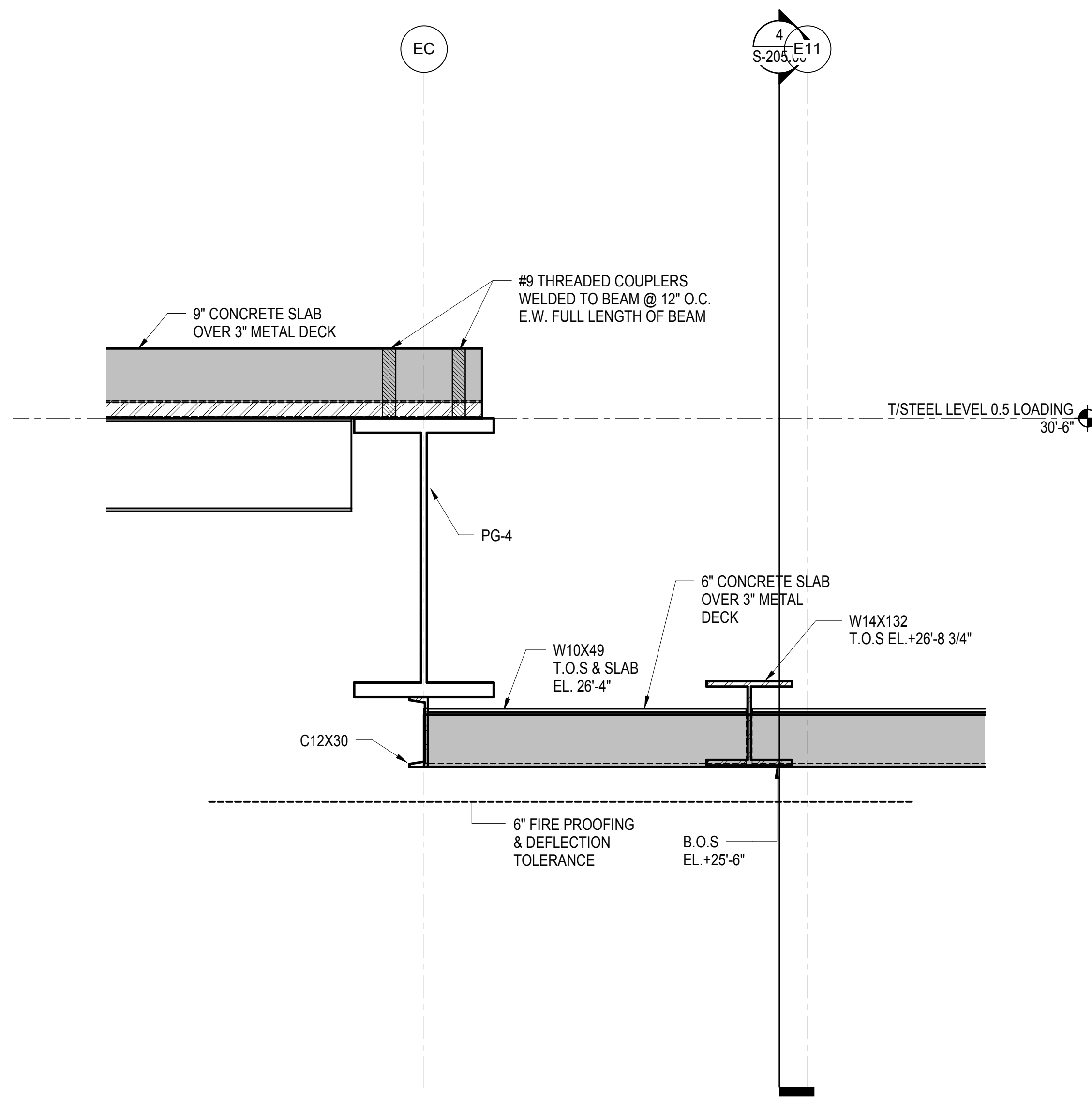
**4 SECTION AT CONNECTION TO TOWER C GRID CN4**  
1/2" = 1'-0"



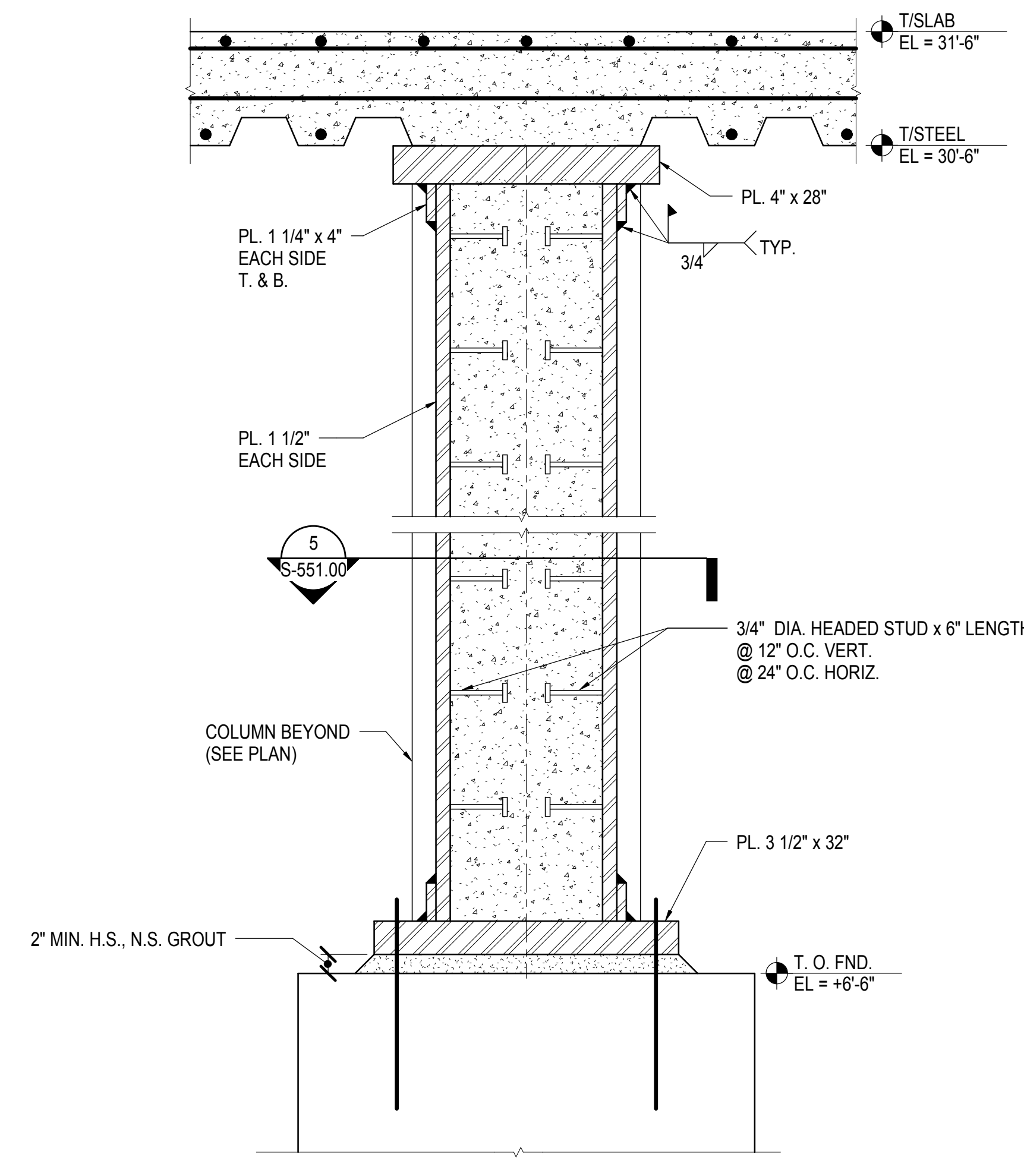


NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DL-02 PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ - DL-01 PHASE I STRUCTURE UPDATE	9/20/2013
L.I.R.R. - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
L.I.R.R. - 60% SUBMISSION	5/29/2013
L.I.R.R. - 60% - PHASE I FDNS	3/29/2013
L.I.R.R. - 30% SUBMISSION	2/15/2013
Rev	Date

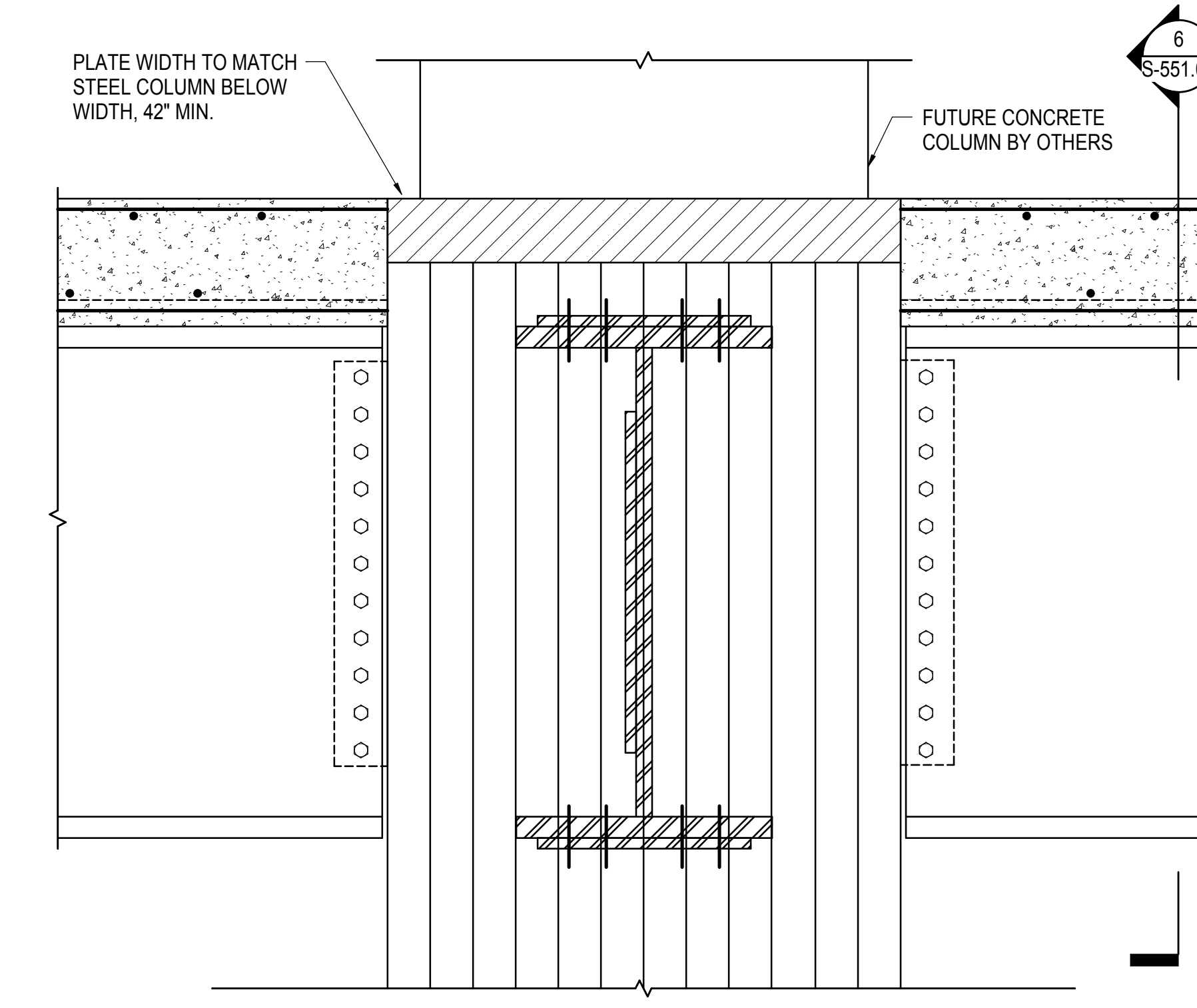
Rev Plot



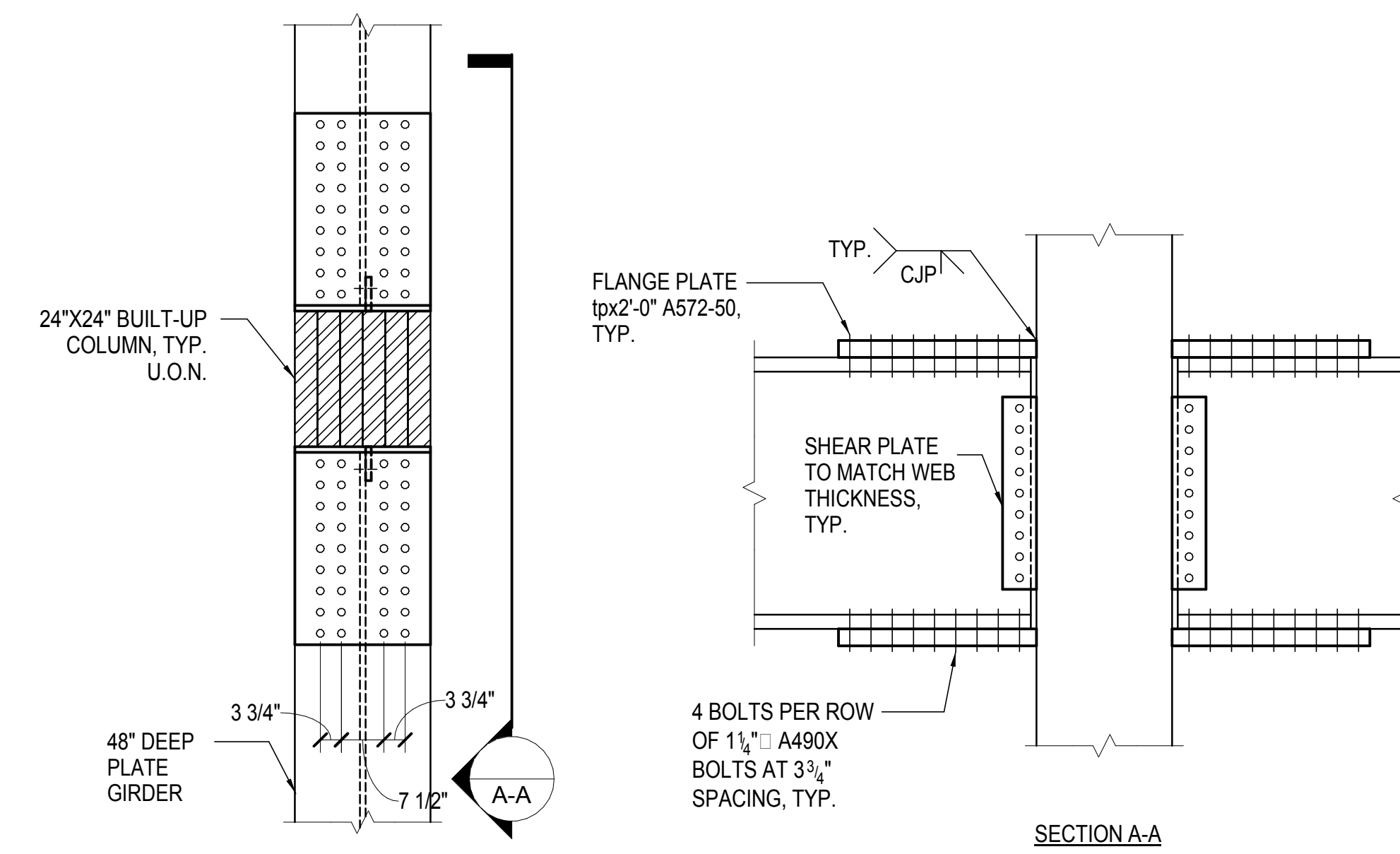
1 SECTION AT ELEVATOR PIT  
3/4" = 1'-0"



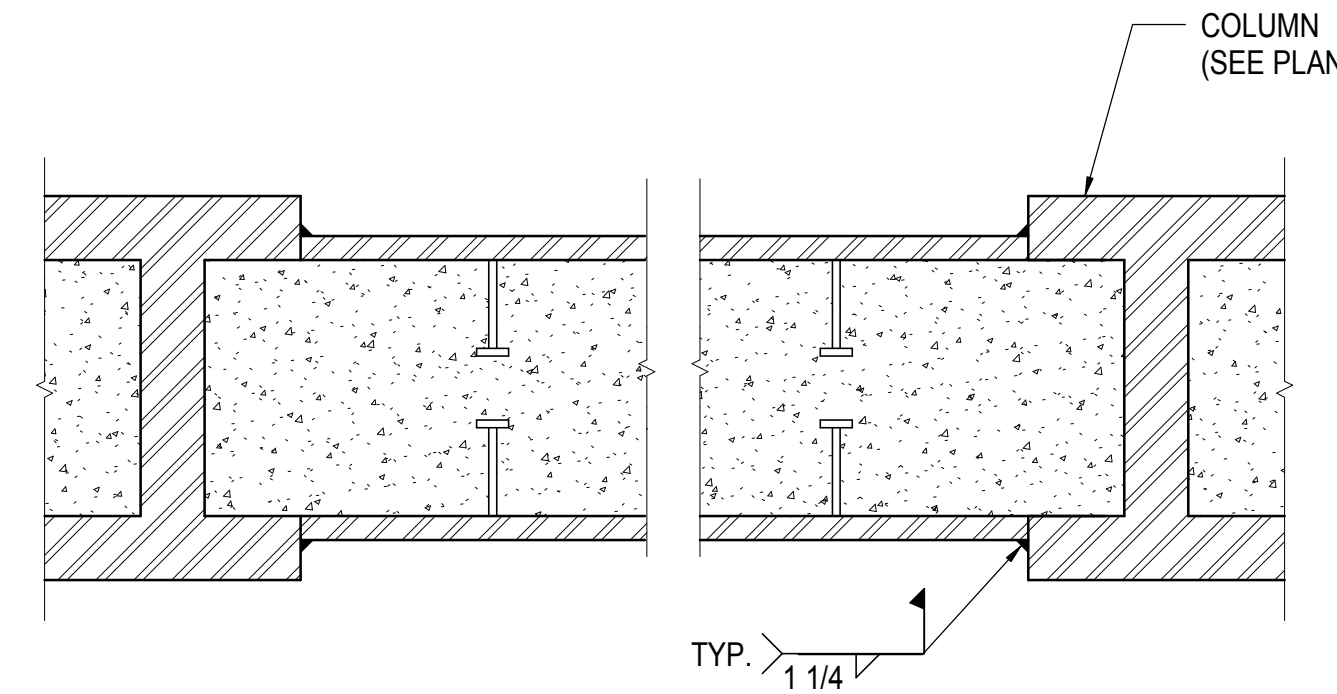
2 SECTION ON GRID LINE E2  
1" = 1'-0"



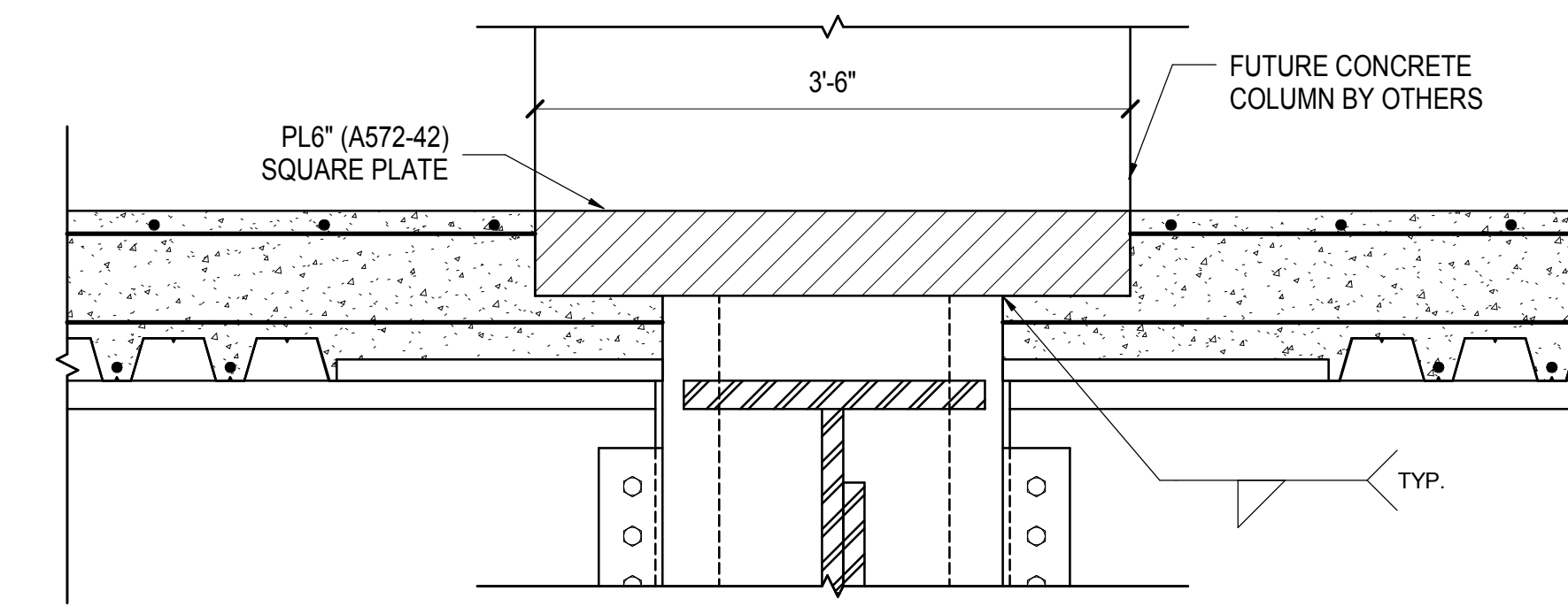
3 TYPICAL CAP PLATE AT CONCRETE COLUMN TRANSFER  
1" = 1'-0"



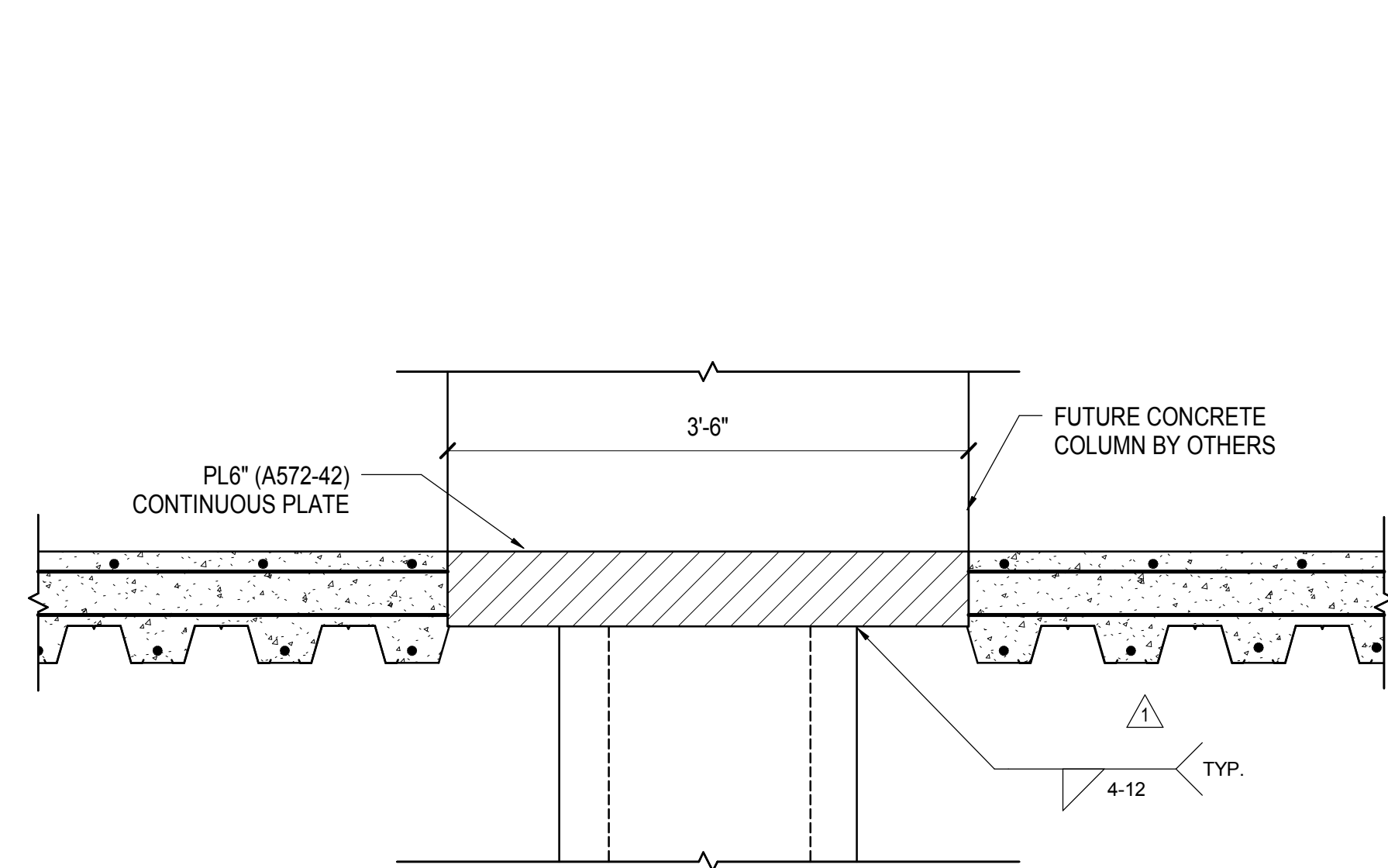
4 TYPICAL MOMENT CONNECTION DETAIL  
1/2\"/>



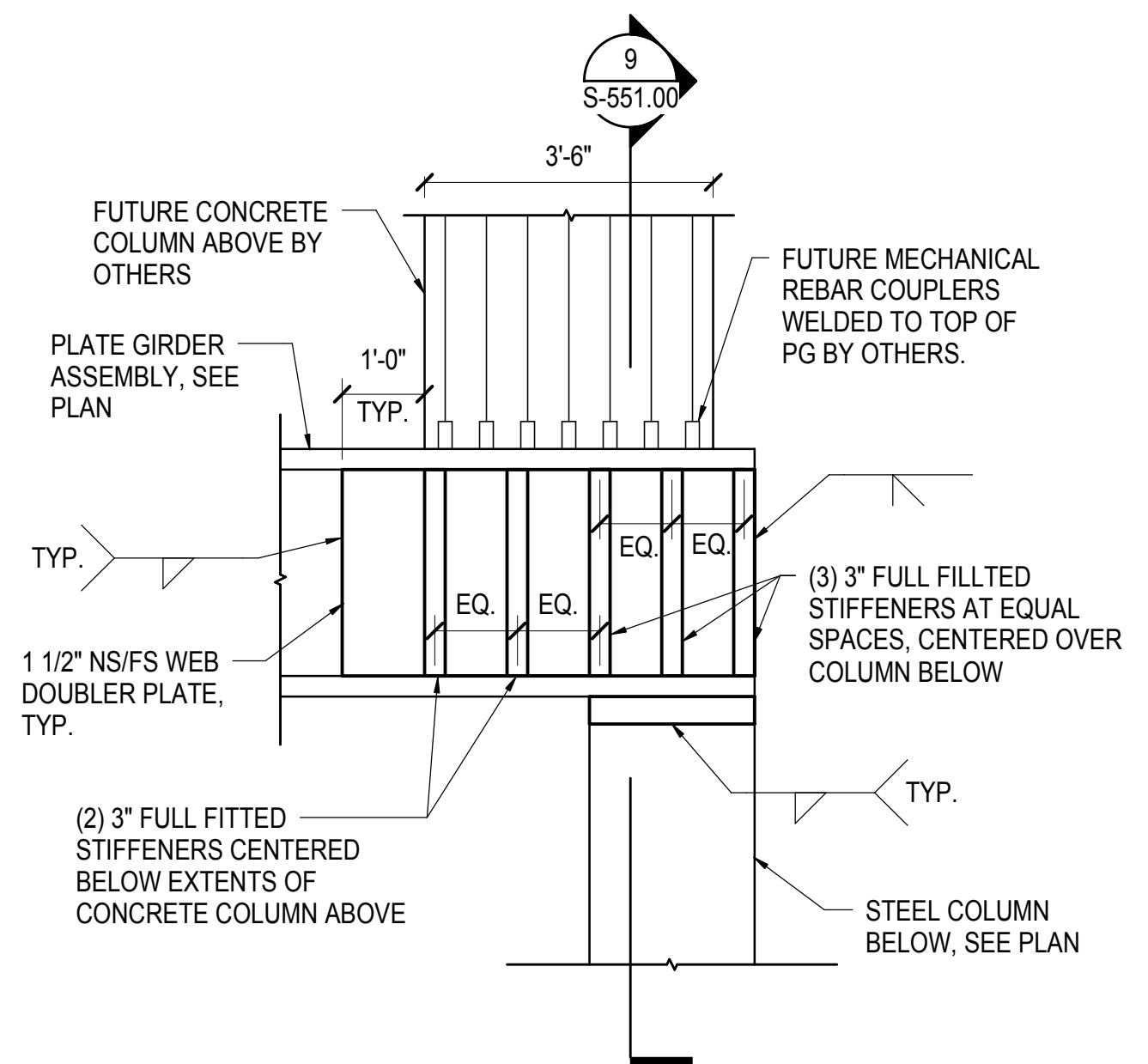
5 SECTION  
1" = 1'-0"



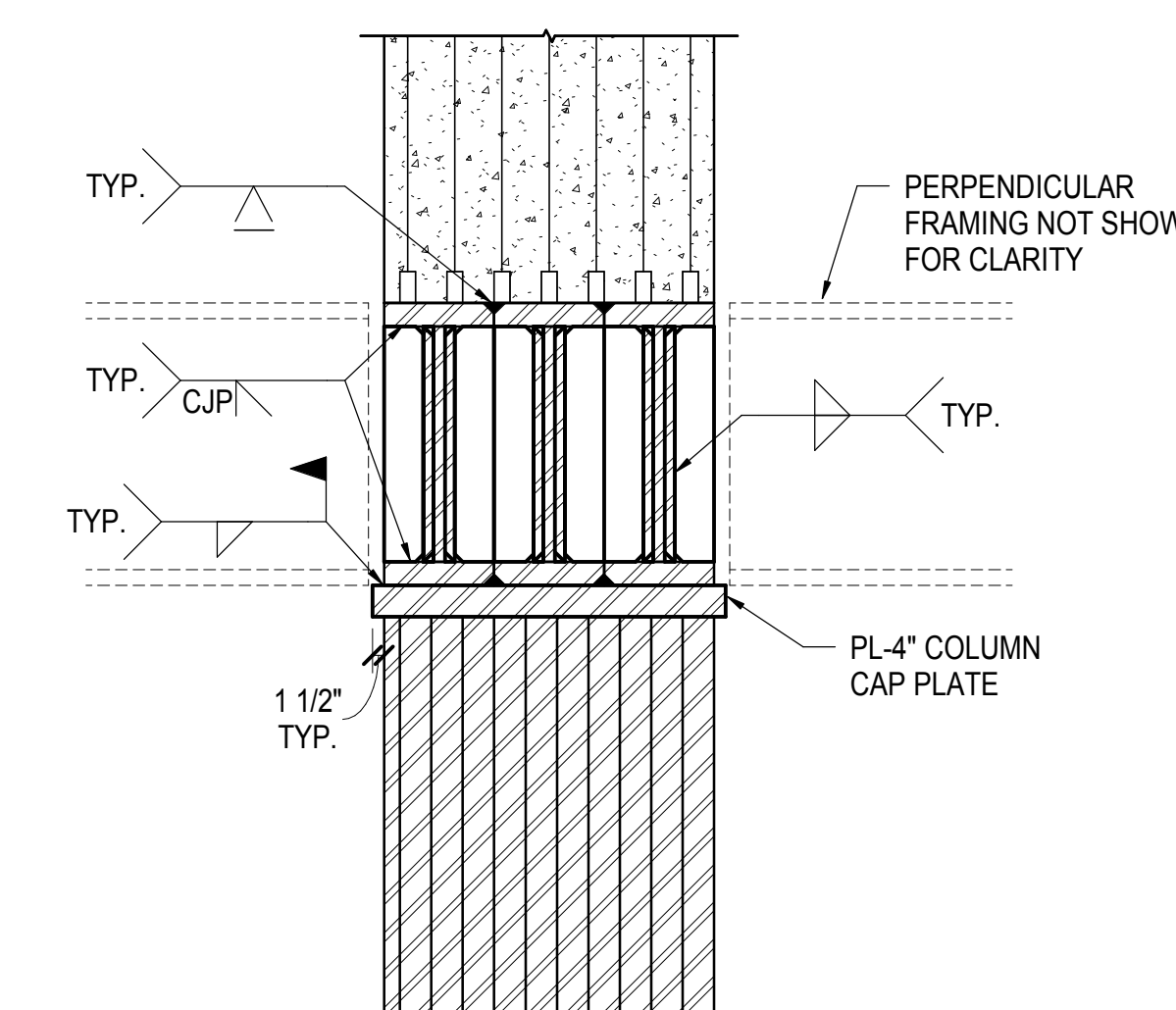
6 TYPICAL MOMENT CONNECTION DETAIL  
1" = 1'-0"



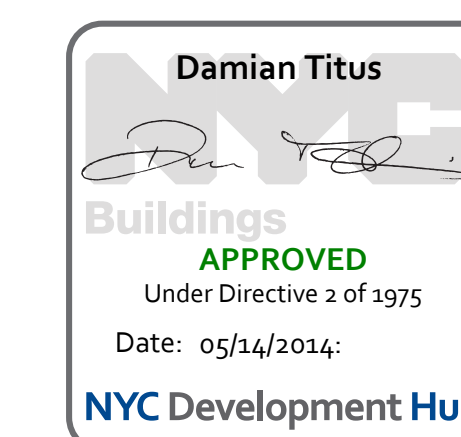
7 TYPICAL CAP PLATE AT CONCRETE WALL TRANSFER  
1" = 1'-0"



8 TYPICAL GRID LINE E1 COLUMN TRANSFER  
1/2\"/>



9 SECTION AT GRID LINE E1 COLUMN TRANSFER  
1/2\"/>



Date: 12/14/2012  
Project No: N11330.00  
Drawn by: Authot  
Scale: 1/8\"/>

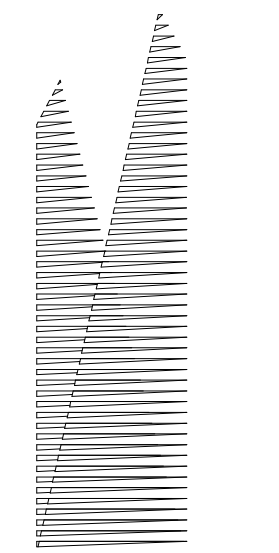
**HYE - PL - S-551.00**

**TOWER E SECTIONS &  
DETAILS**

S-551.00  
SHEET 149 OF 201

FOR INFORMATION ONLY





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Related Companies  
60 Columbus Circle  
New York, NY 10023  
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Officed Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

Architect  
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PC Architects & Planning Consultants  
11 West 42nd Street  
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Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
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New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&U - PLATFORM SUBMISSION	
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NYC DOB FILING	10/4/2013
Δ - DR-01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev Plot

Date: 12/14/2012

Project No: N11330.00

Author

Sheet Number

**HYE -PL -S-552.00**

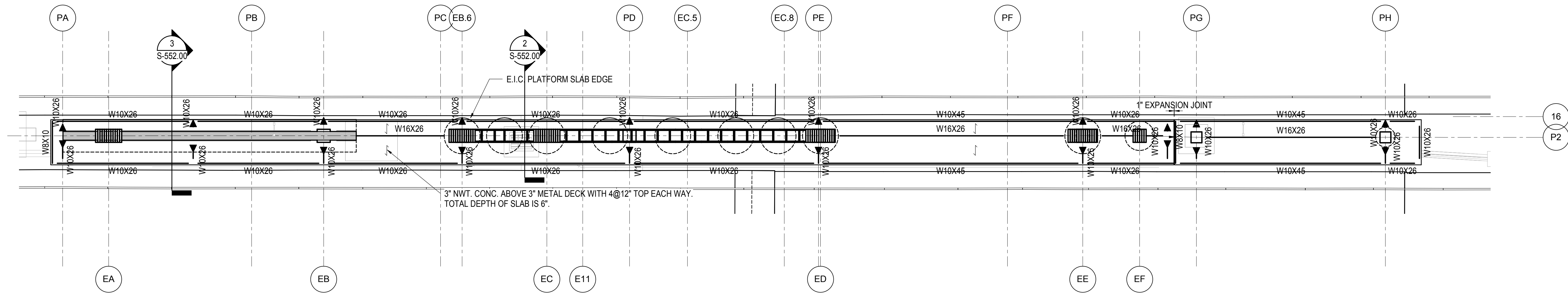
Drawing Title

**TOWER E SECTIONS & DETAILS**

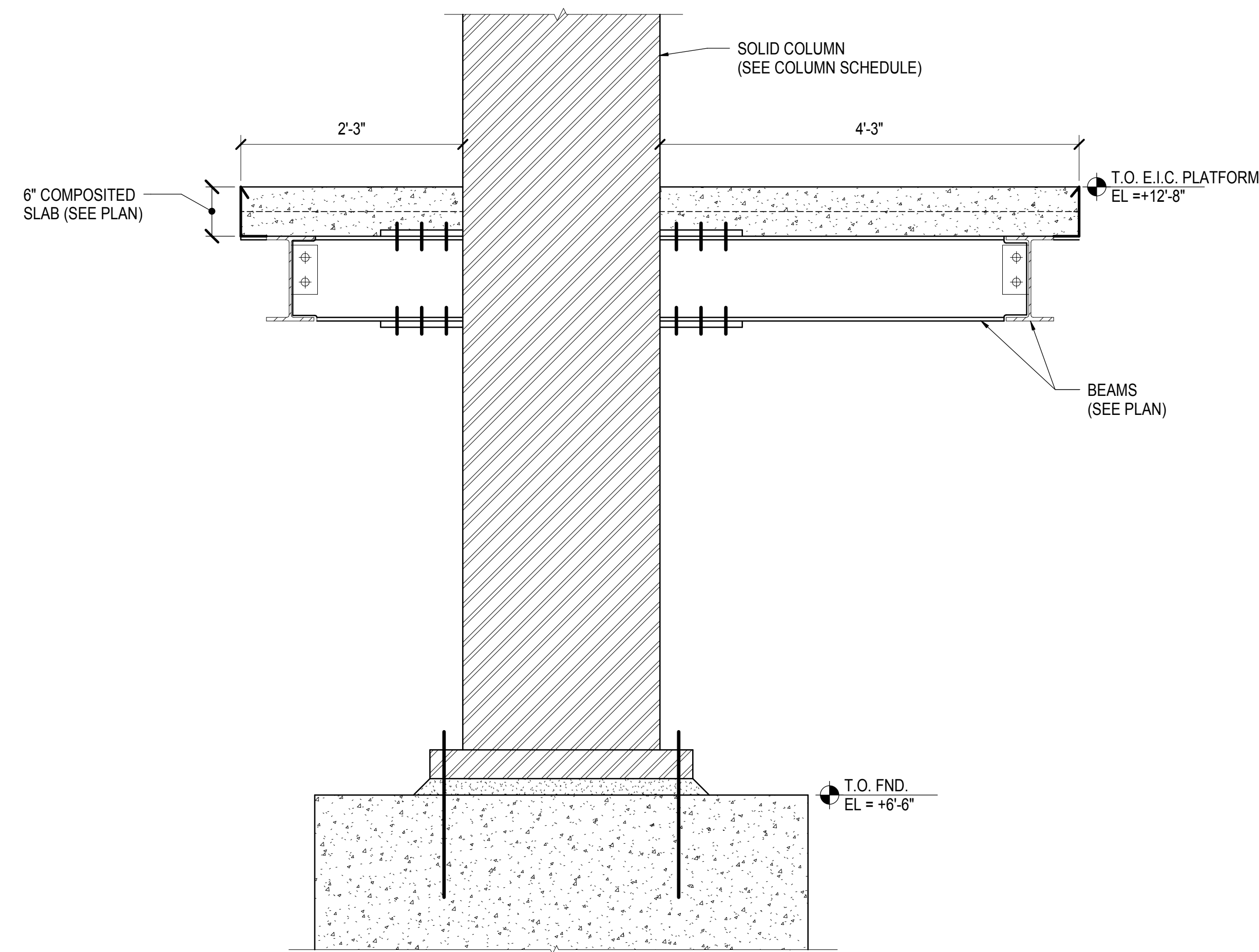
Drawing Number / Revision Drawing Number

**S-552.00**

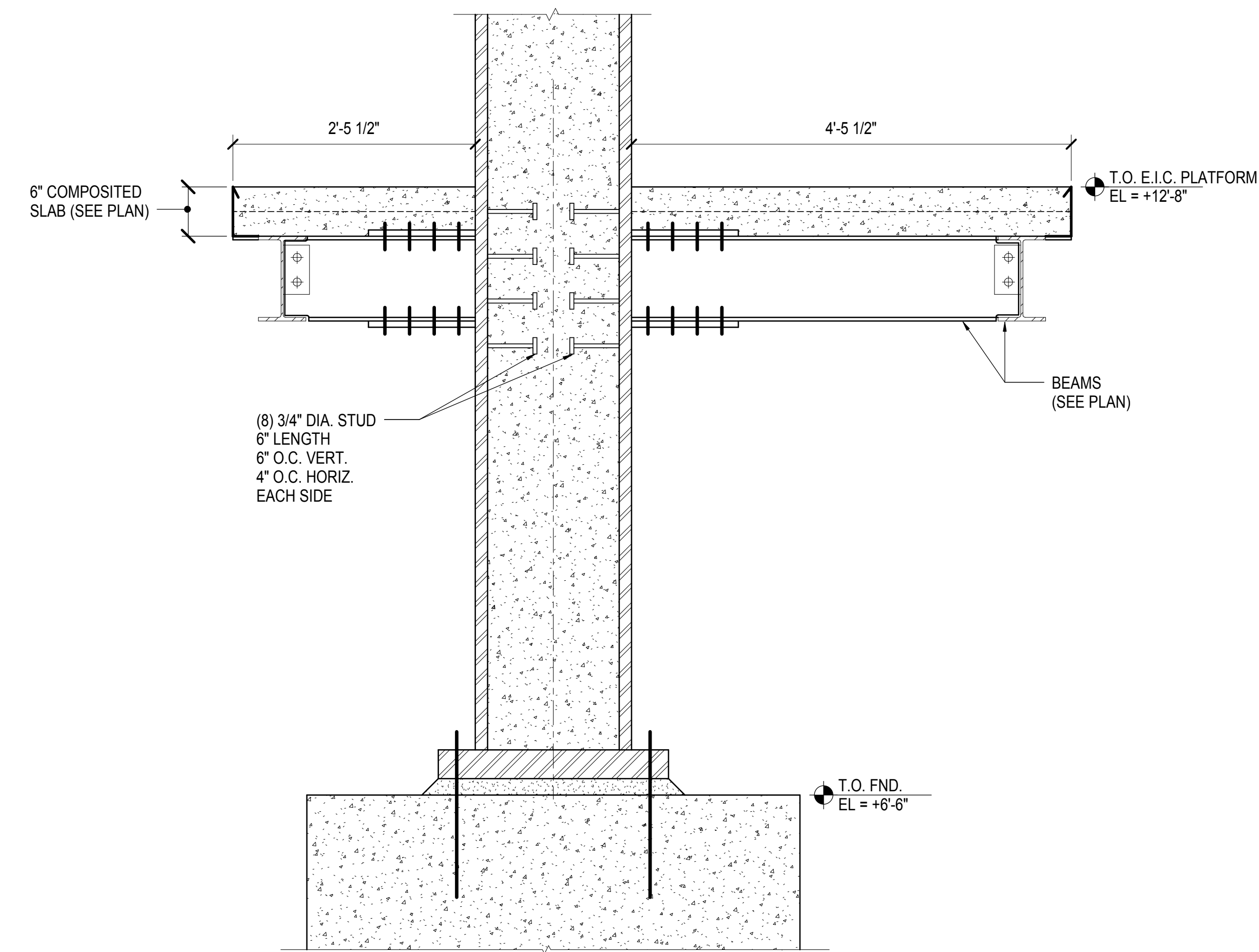
SHEET 150 OF 201



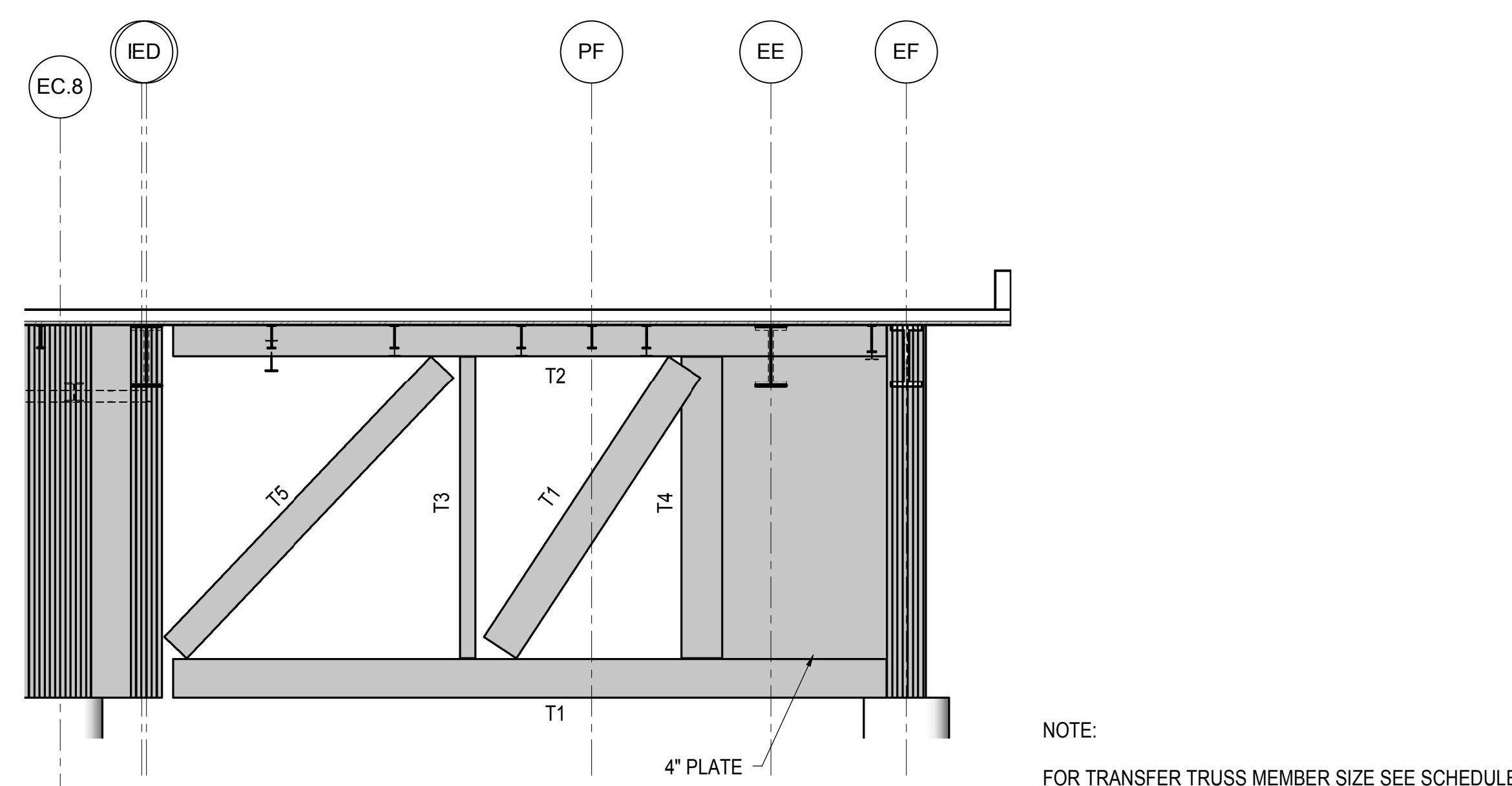
**1 E.I.C. PLATFORM PLAN**  
1/8" = 1'-0"



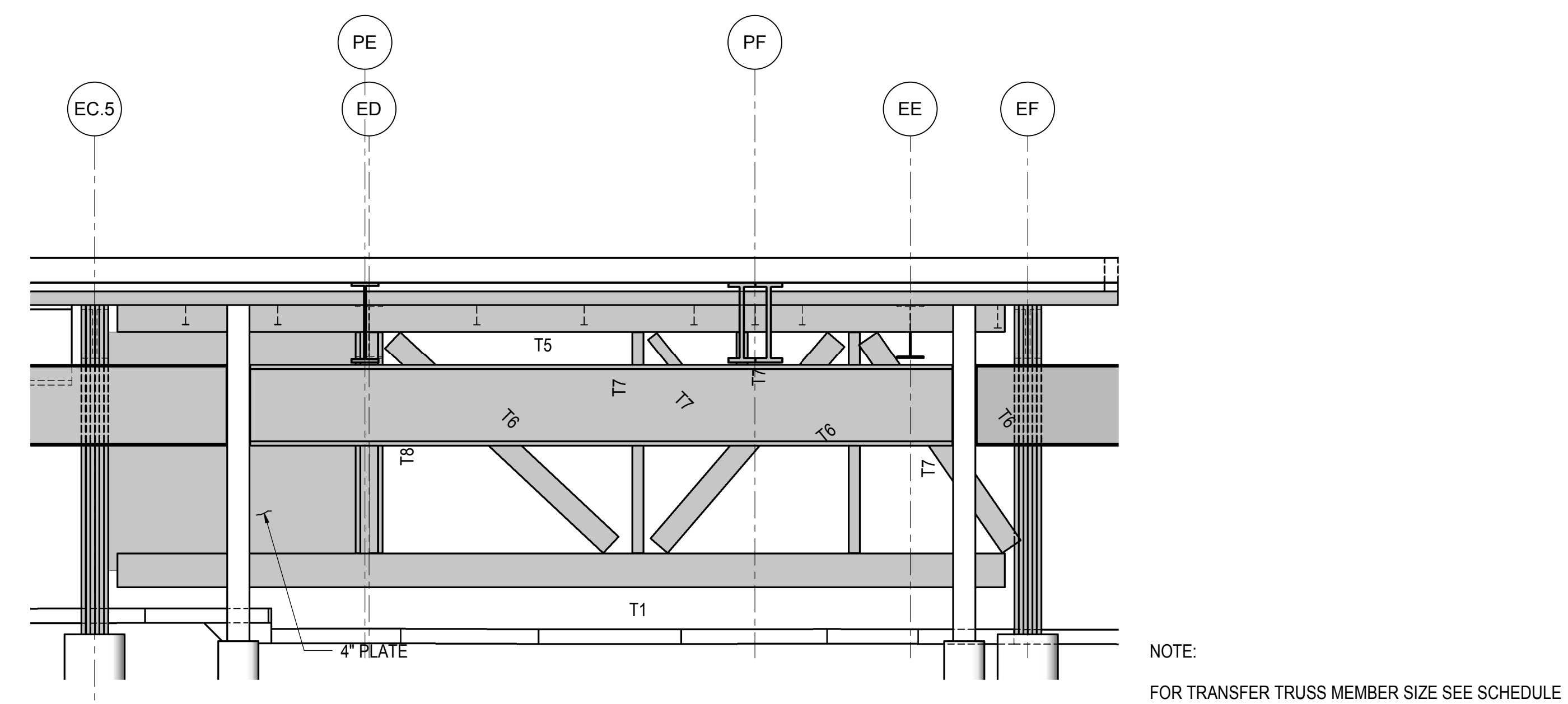
**2 E.I.C. PLATFORM SECTION AT SOLID COLUMN**  
1" = 1'-0"



**3 E.I.C. PLATFORM SECTION AT COMPOSITE WALL**  
1" = 1'-0"



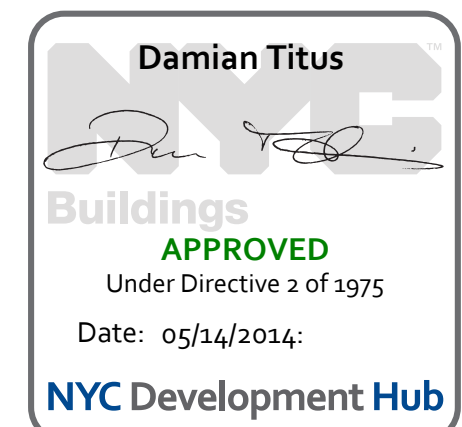
**4 TRANSFER TRUSS ELEVATION**  
1/8" = 1'-0"



**5 TRANSFER TRUSS ELEVATION**  
1/8" = 1'-0"

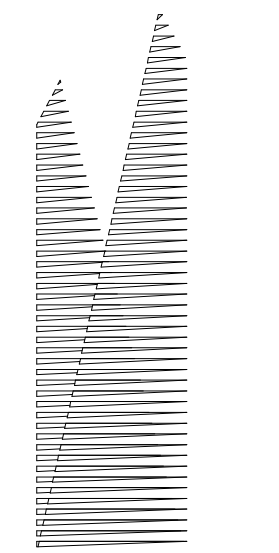
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		WIDTH (IN)	TH (IN)	TH (IN)
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T2	24	24	4	12
T3	24	12	4	4
T4	24	32	4	4
T5	24	24	4	4
T6	24	20	4	4
T7	24	10	4	4
T8	24	44	4	4

**6 SECTION AT 10TH AVE - V**  
1/4" = 1'-0"



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60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Officer Properties Group  
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New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

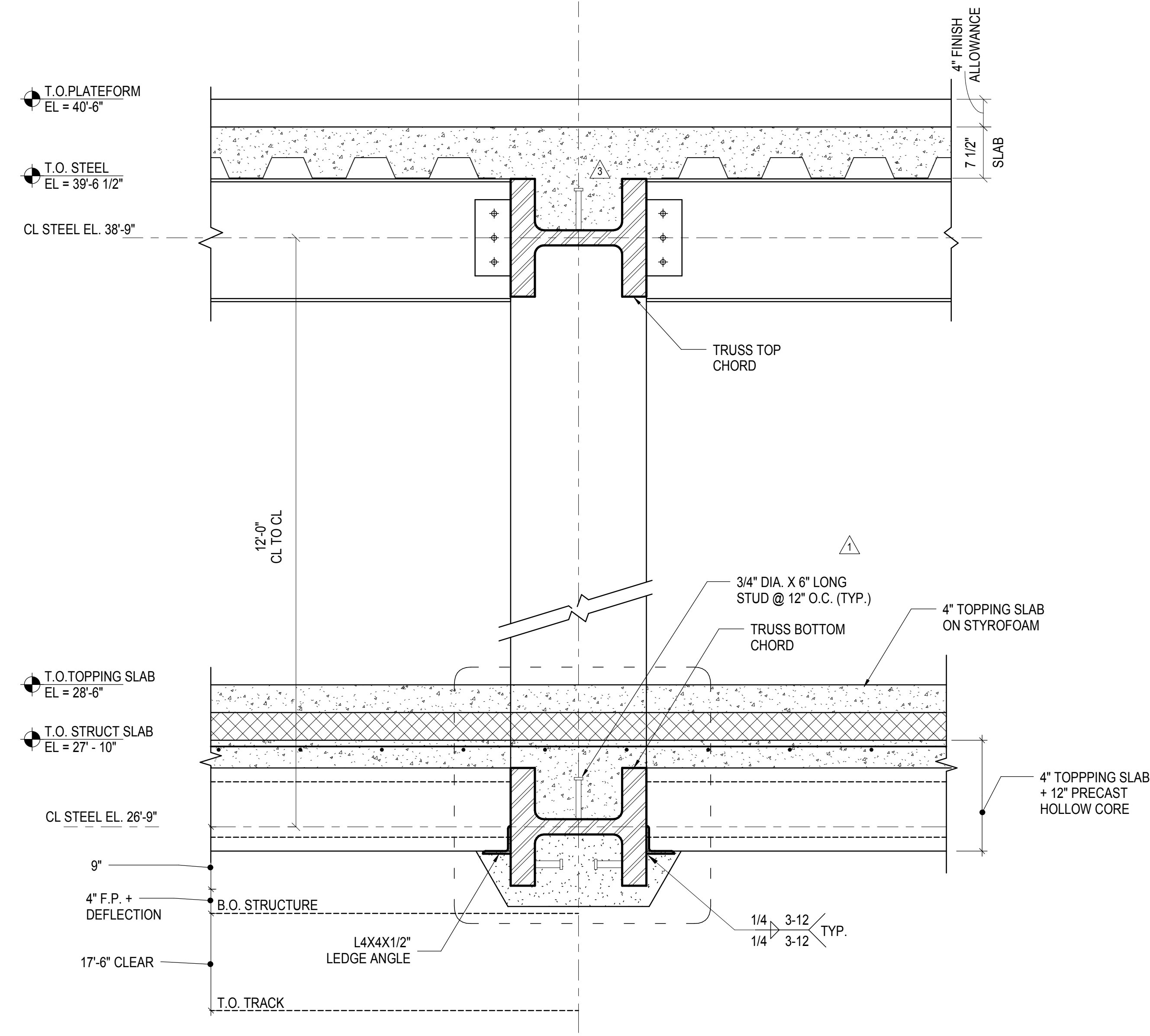
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

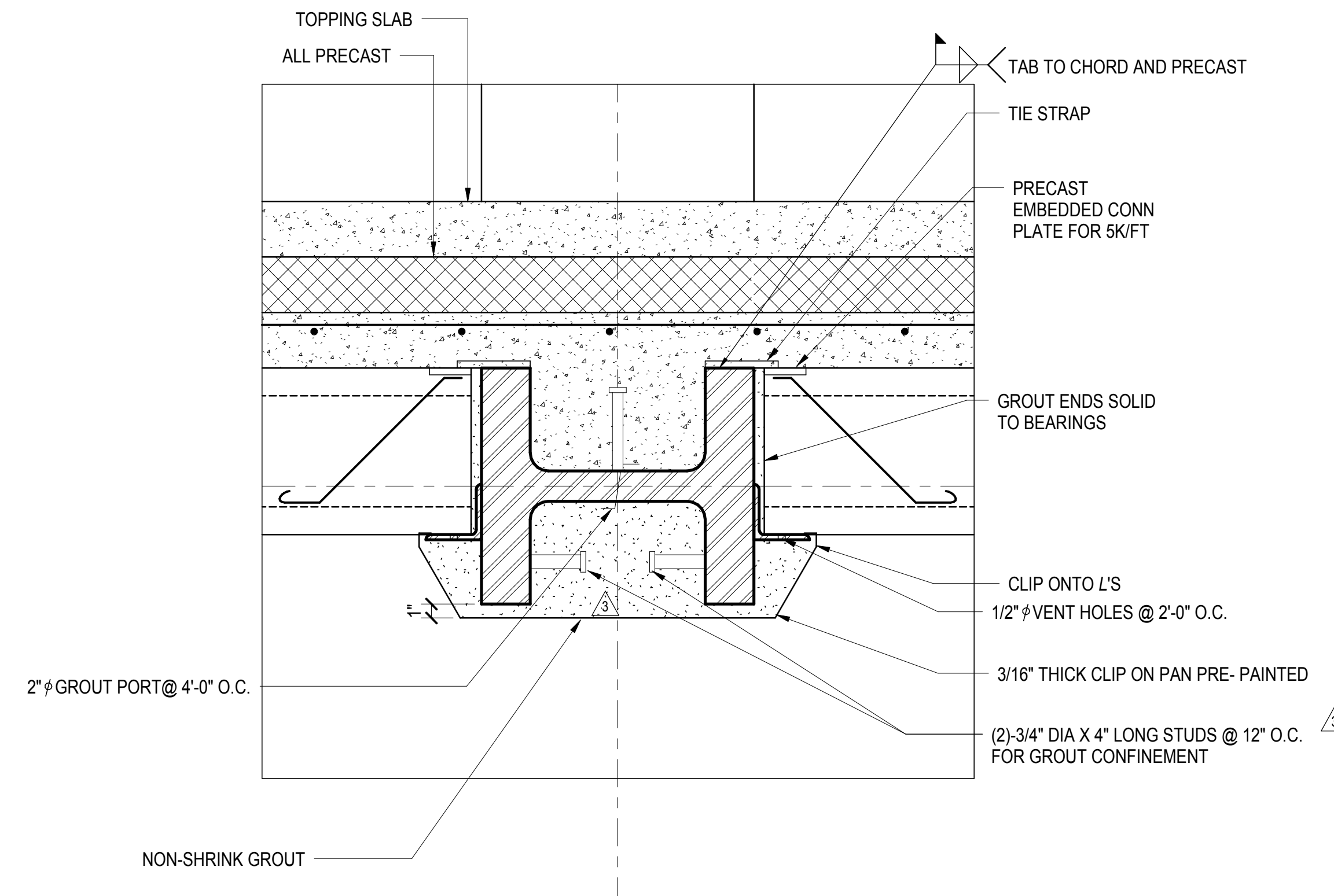
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

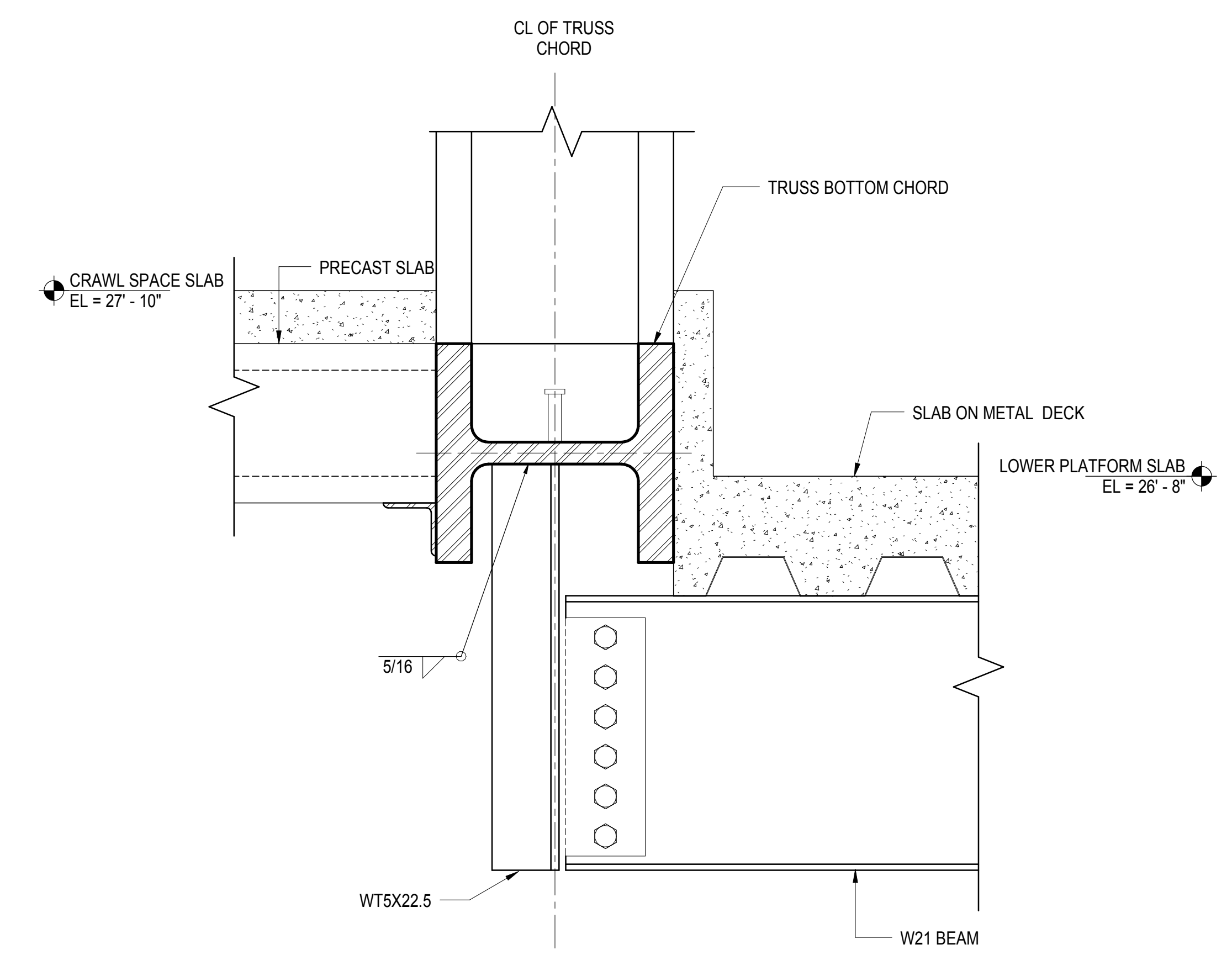
LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



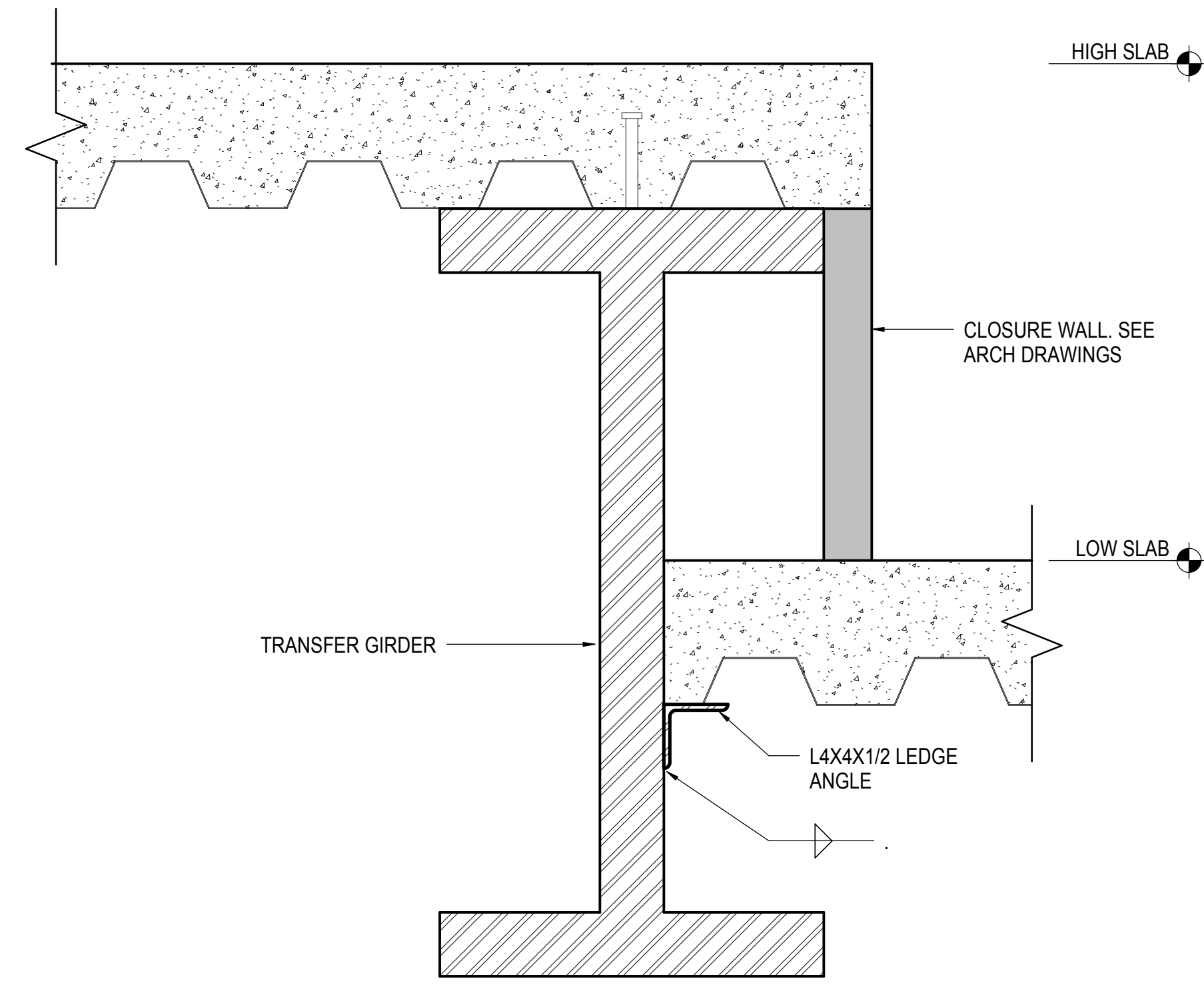
1 TYPICAL CRAWL SPACE SECTION  
1" = 1'-0"



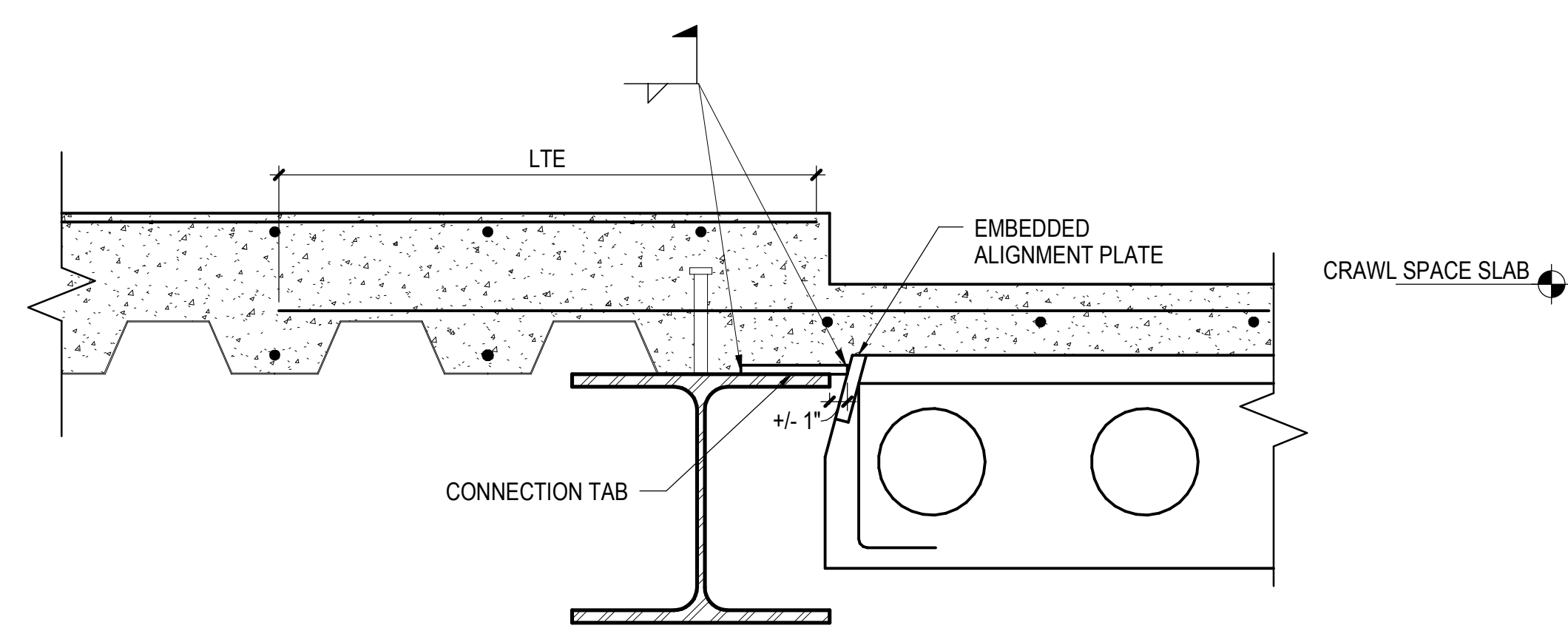
2 TYPICAL CRAWL SPACE SECTION  
1 1/2" = 1'-0"



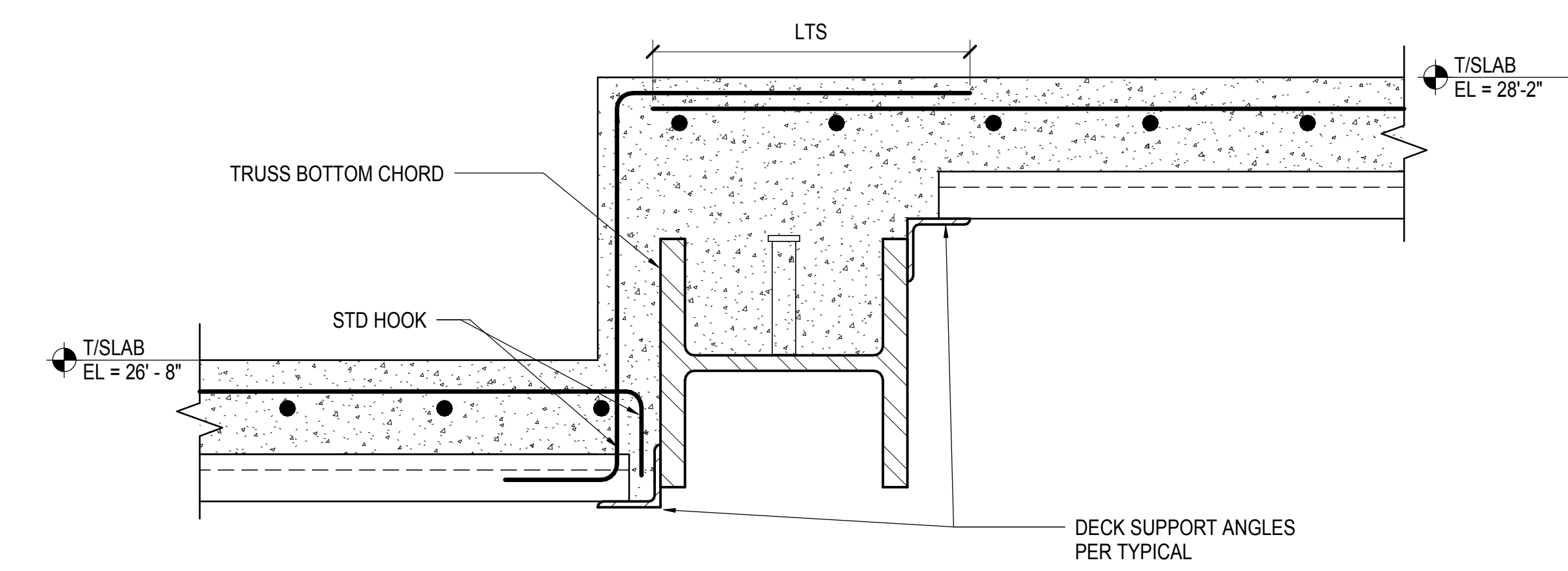
3 STEP AT TRUSS BOTTOM CHORD  
1 1/2" = 1'-0"



4 TYPICAL STEP IN SLAB AT TRANSFER GIRDER LOCATIONS  
1 1/2" = 1'-0"



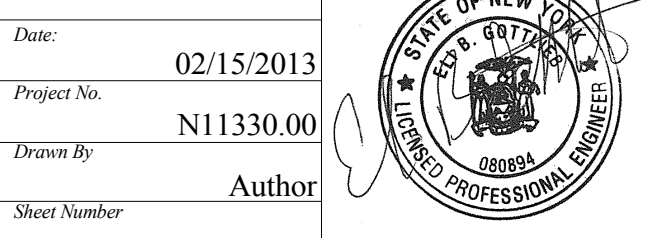
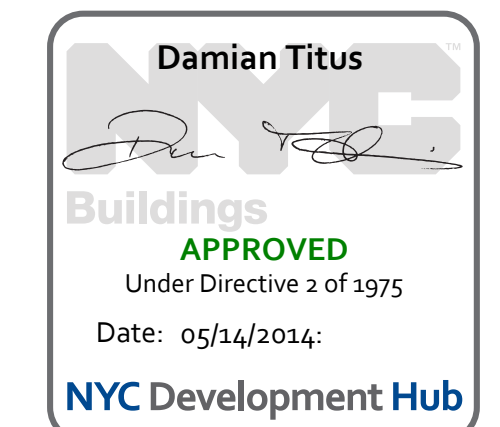
5 TYPICAL STEP IN SLAB AT CRAWL SPACE  
1 1/2" = 1'-0"



6 STEP IN SLAB AT TRUSS T12G  
1 1/2" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&U - PLATFORM SUBMISSION	
Δ - DR-02 PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ - DR-01 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE 1 FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

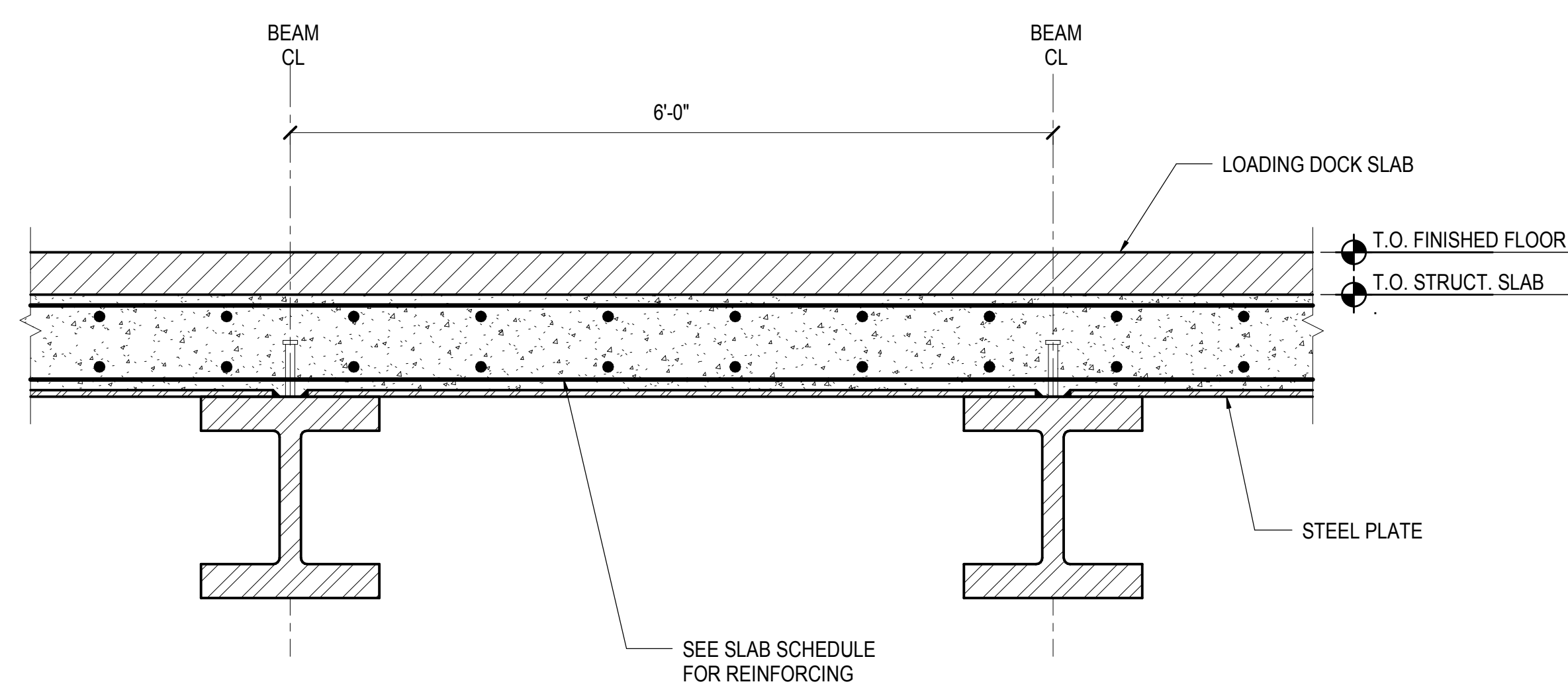
Rev Plot



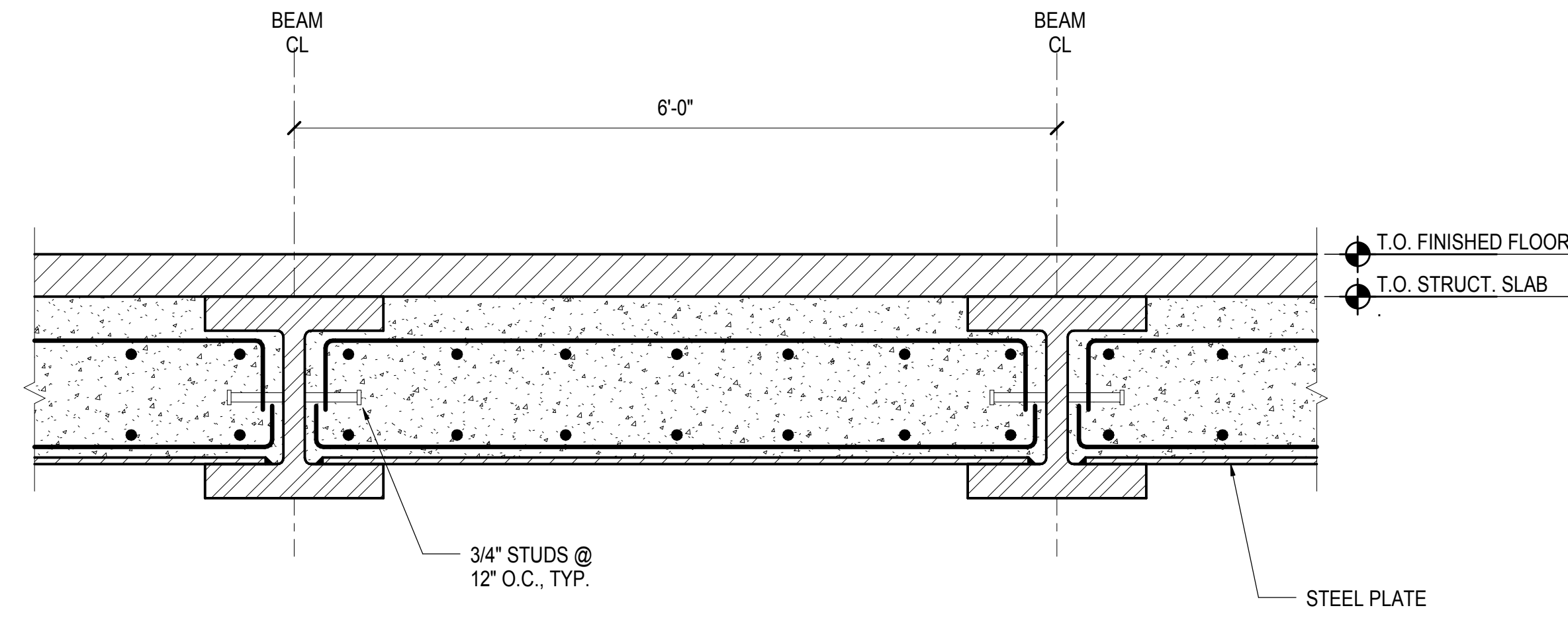
HYE -PL -S-601.00  
Drawing Title  
**EAST PLATFORM SLAB SECTIONS & DETAILS**

Drawing Number / Revision Drawing Number  
**S-601.00**

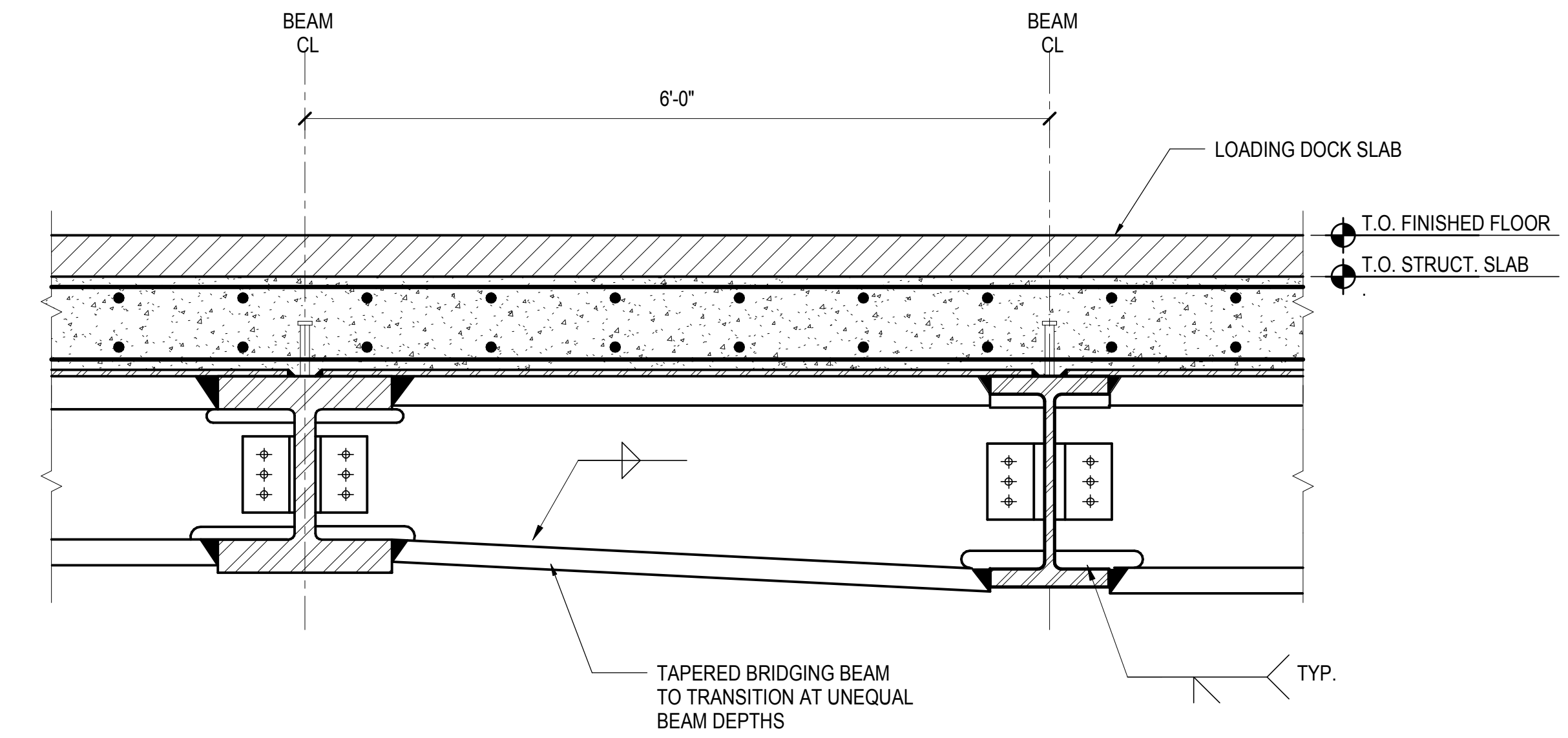




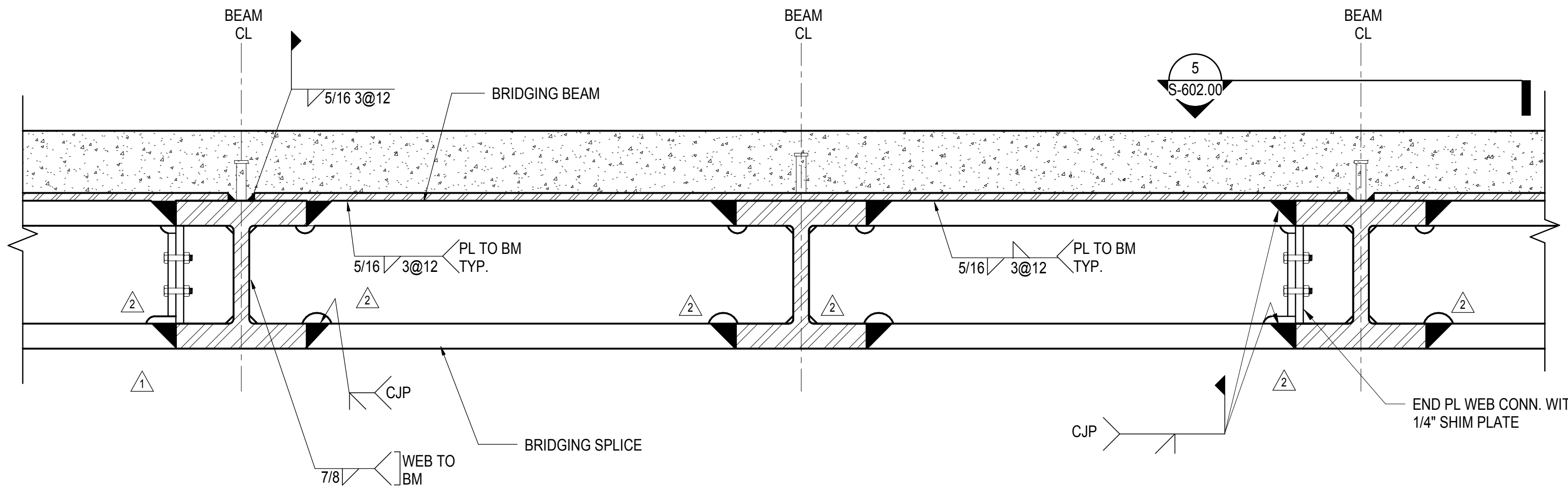
1 TYPICAL 10TH AVE LOADING DOCK SLAB  
1" = 1'-0"



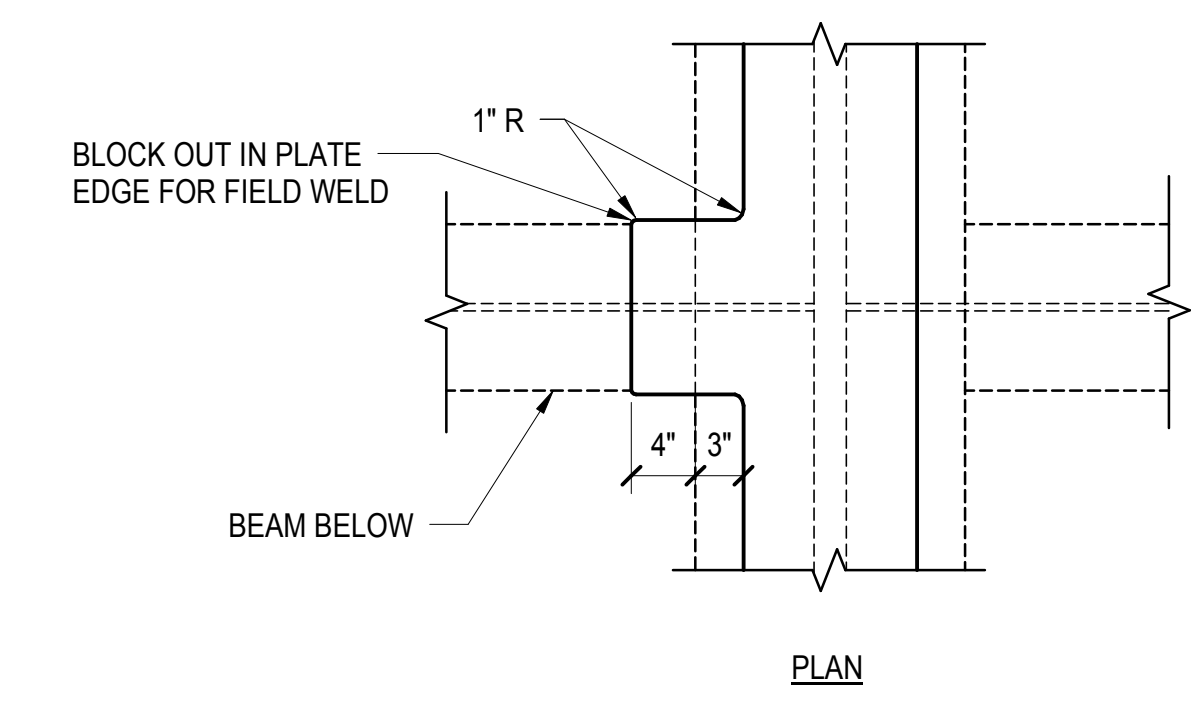
2 10TH AVE. LOADING DOCK SLAB AT HIGH FRAMING  
1" = 1'-0"



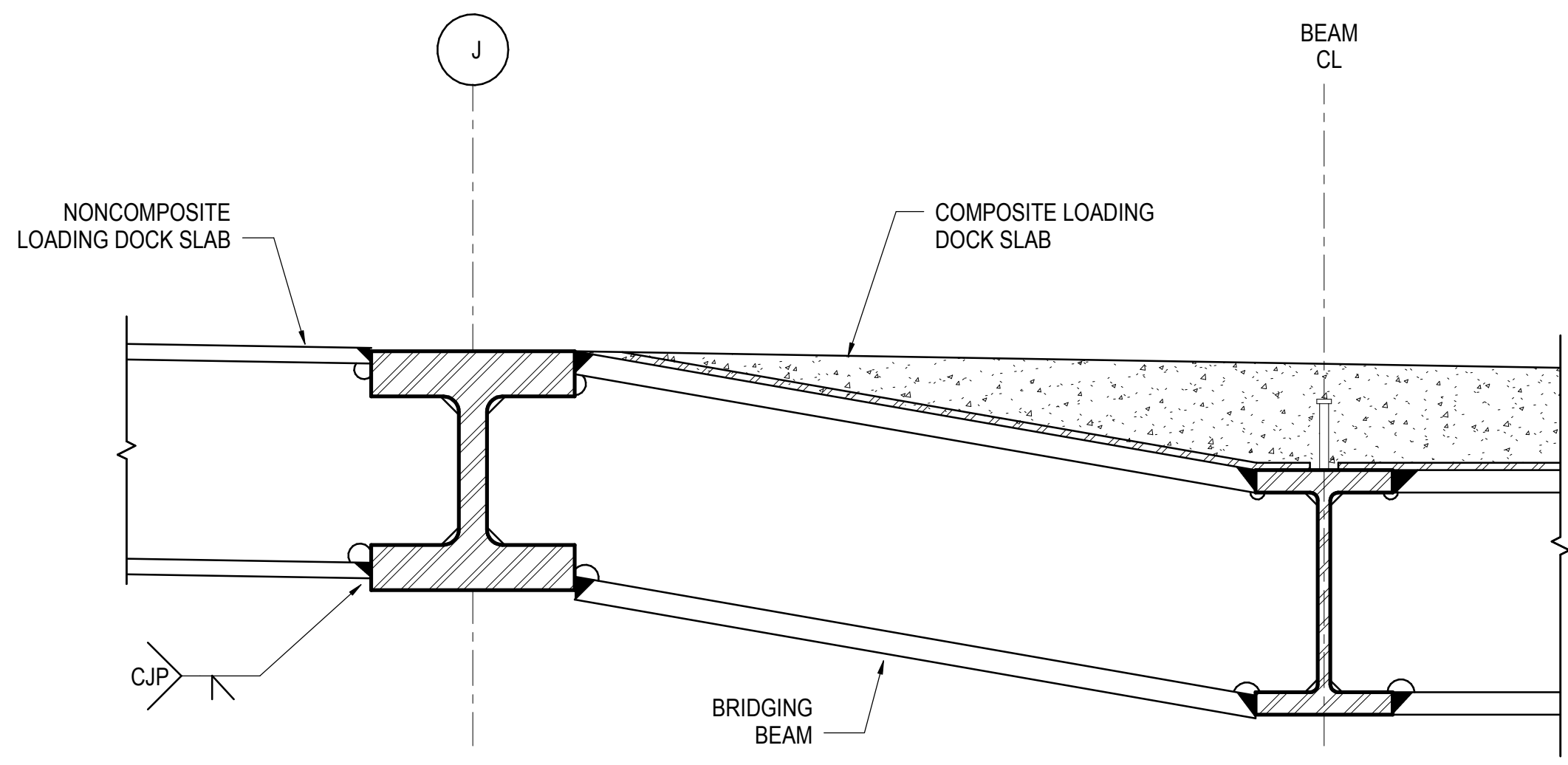
3 TRANSITION BRIDGING BEAM AT 10TH AVE. LOADING DOCK  
1" = 1'-0"



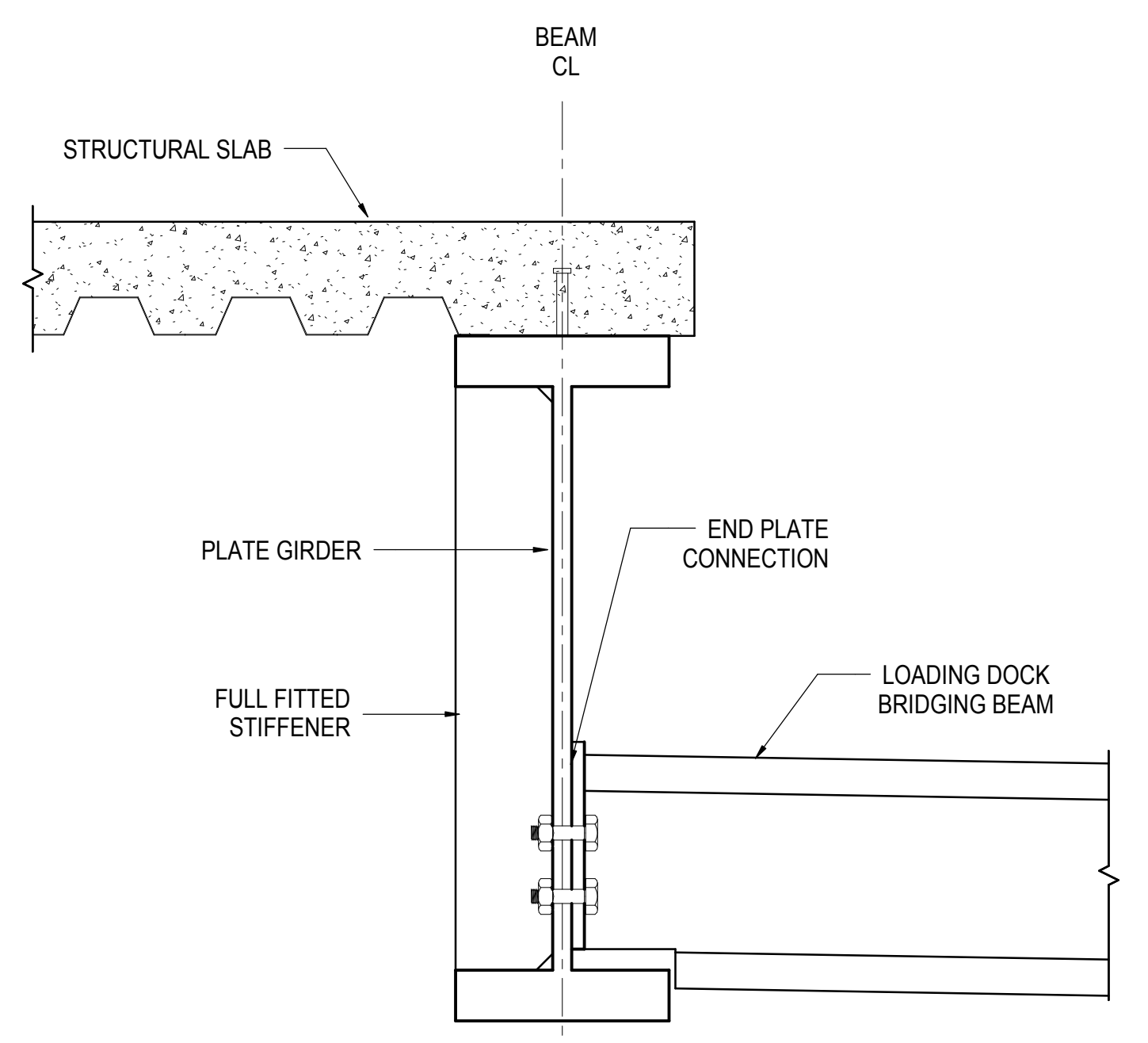
4 TYPICAL BRIDGING BEAM SPLICE AT 10TH AVE. LOADING DOCK  
1" = 1'-0"



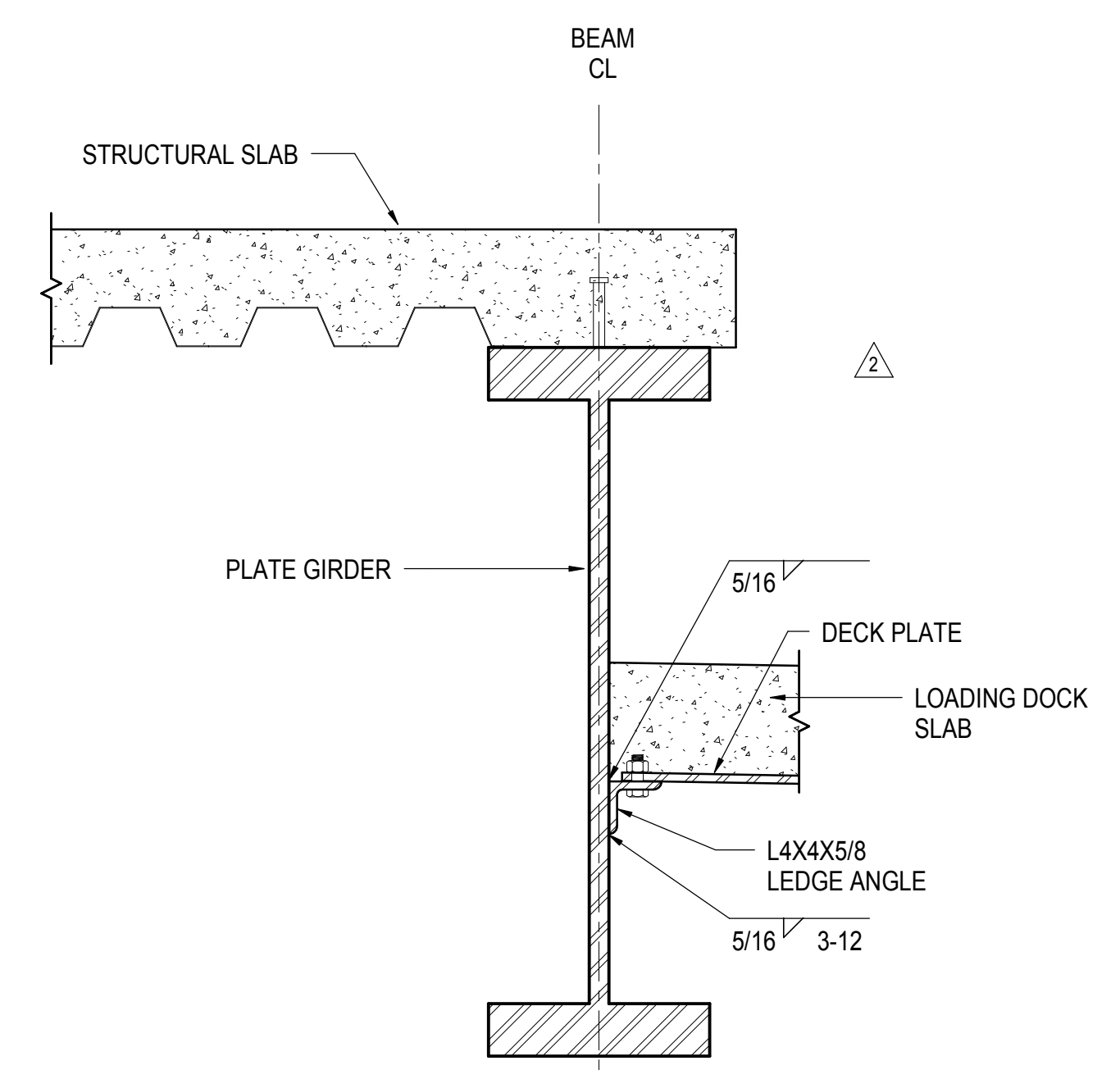
5 PLAN OF TYPICAL BRIDGING BEAM SPLICE AT 10TH AVE. LOADING DOCK  
1" = 1'-0"



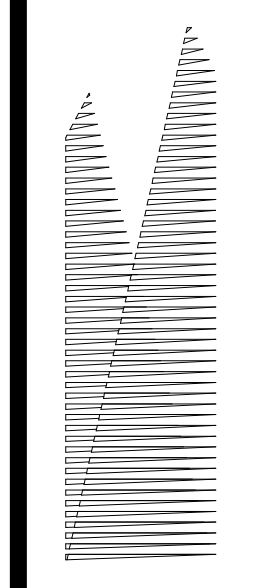
6 SECTION AT LOADING DOCK TRANSITION BETWEEN COMPOSITE AND NONCOMPOSITE SLAB  
1" = 1'-0"



7 SECTION AT GRID H PLATE GIRDER AND BRIDGING BEAM  
1" = 1'-0"



8 SECTION AT GRID H PLATE GIRDER AND SLAB  
1" = 1'-0"



Client  
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60 Columbus Circle  
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Outland Properties Group  
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Fire Alarm, Fire Protection, Security  
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LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
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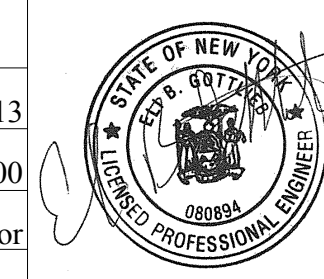
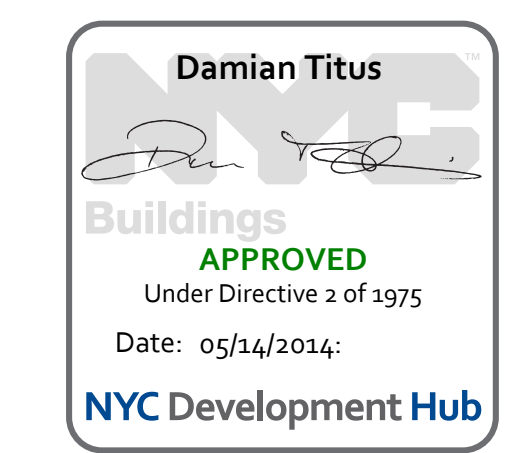
NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&U PLATFORM SUBMISSION	
Δ DR-02 PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ DR-01 PHASE 1 STRUCTURE UPDATE	9/20/2013
L.I.R.R. - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
L.I.R.R. - 60% SUBMISSION	5/29/2013
L.I.R.R. - 60% - PHASE 1 FDNS	3/29/2013
L.I.R.R. - 30% SUBMISSION	2/15/2013
Rev	Description

Rev Plot

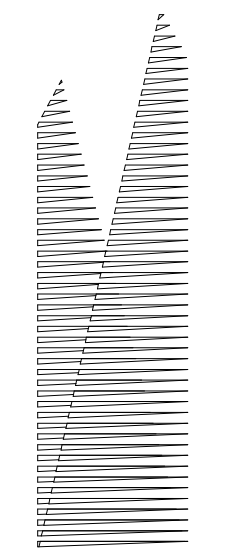
Date: 02/15/2013  
Project No: N11330.00  
Drawn By: Author  
Sheet Number:

HYE -PL -S-602.00  
Drawing Title  
10TH AVE LOADING DOCK - SECTIONS AND DETAILS

Drawing Number / Revision Drawing Number  
S-602.00  
SHEET 152 OF 201







Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
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Owned Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
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Construction Manager  
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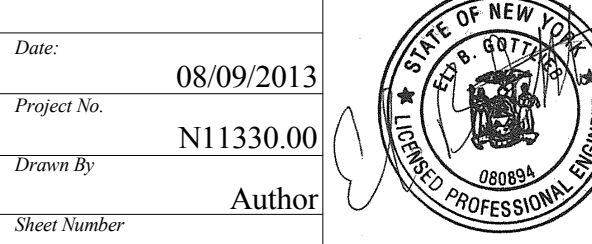
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Personnel Transportation Group  
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New York, NY 10005  
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LIRR Ventilation  
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AECOM  
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New York, NY 10158  
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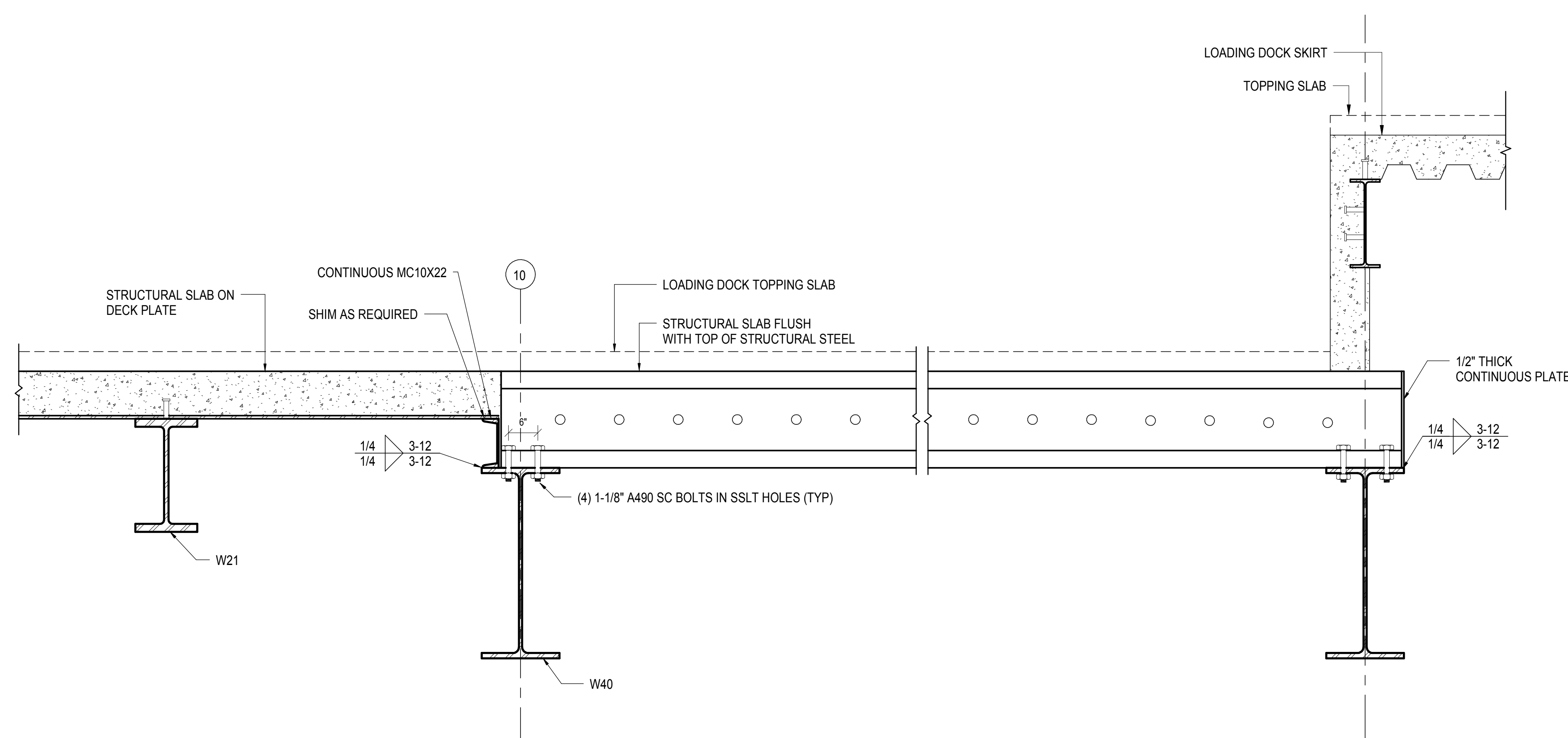
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L.I.R.R. - PRELIMINAL 100%	11/22/2013
MdE - PLATFORM SUBMISSION	
DI-02 PHASE I STRUCTURAL UPDATE	11/17/2013
NYC DOB FILING	10/24/2013
DI-01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
Rev	Description

Rev Plot

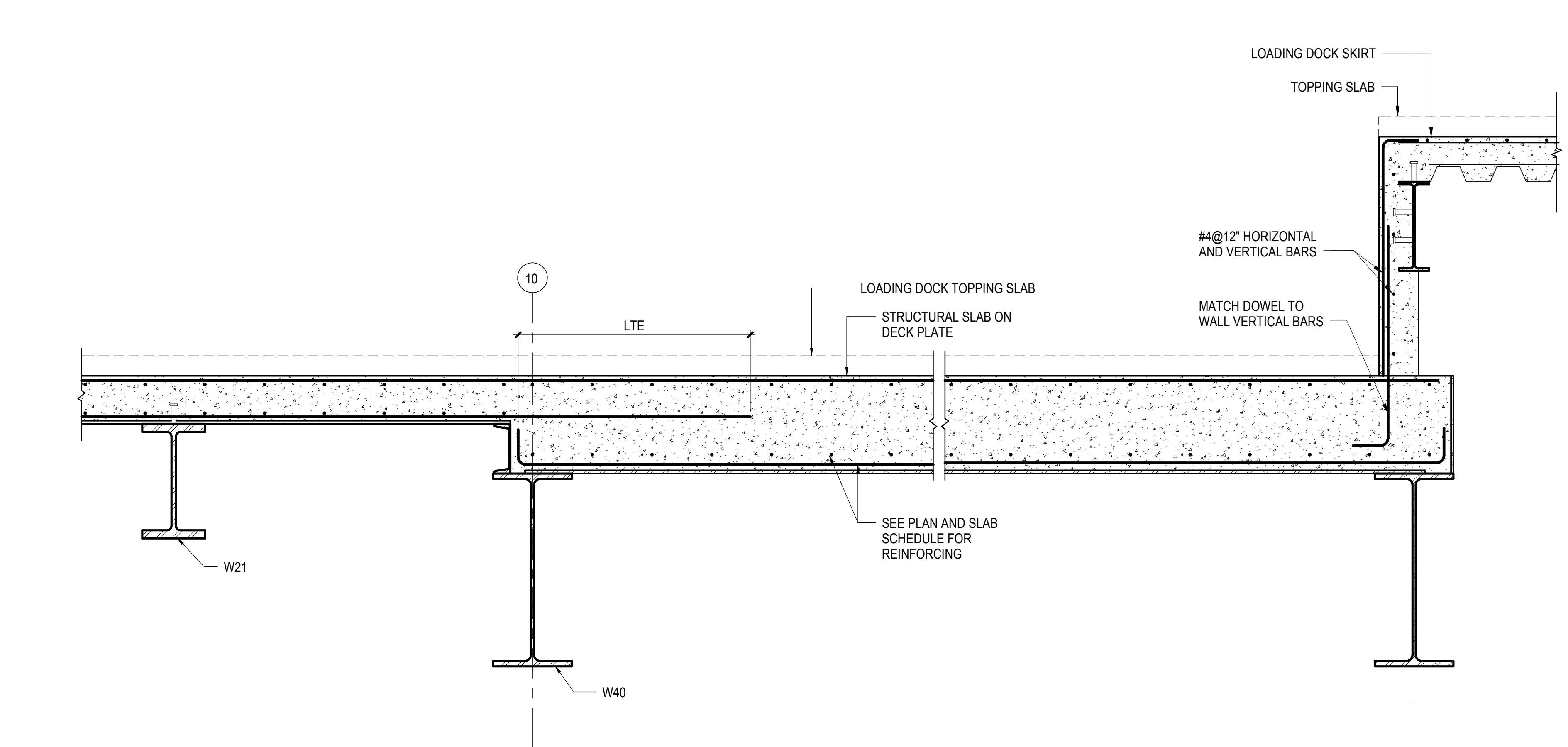


Date: 08/09/2013  
Project No: N11330.00  
Title: Author  
Issue Number: 2004  
**HYE-PL-S-603.00**  
Drawing Title: **10TH AVE LOADING DOCK - SECTIONS AND DETAILS**

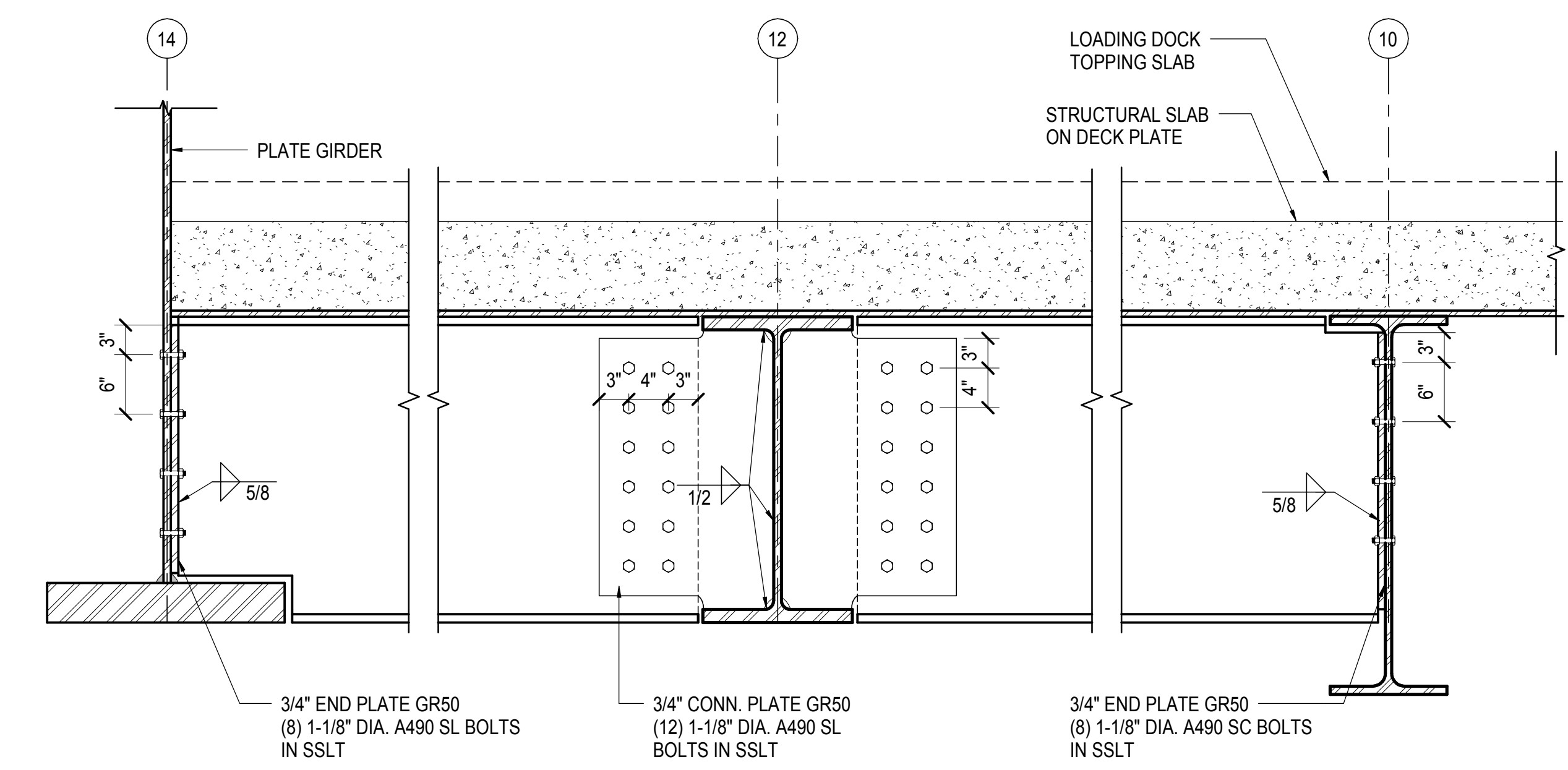
Drawing Number / BSC/D Drawing Number  
**S-603.00**  
SHEET 153 OF 201



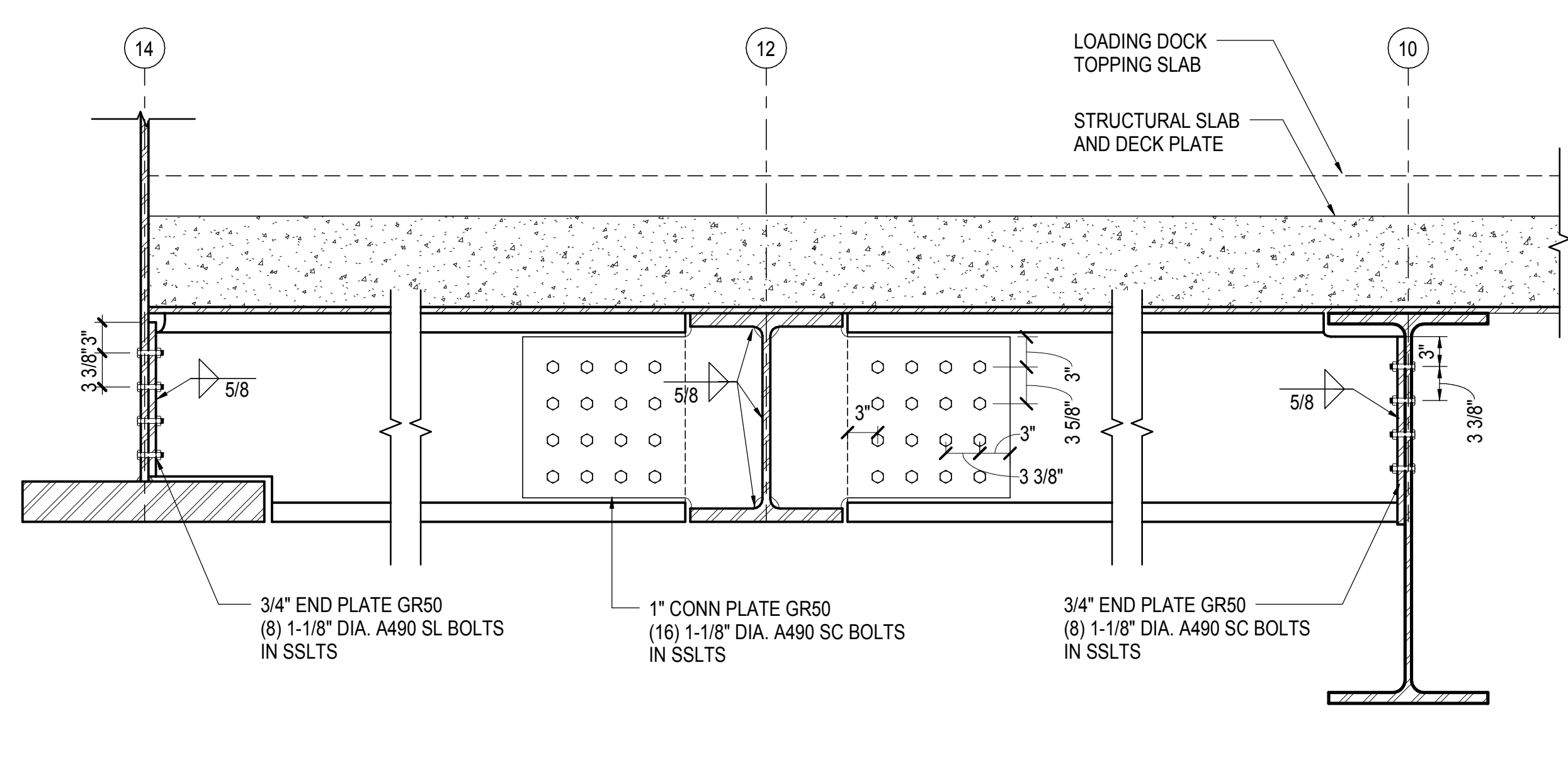
**1 SECTION AT LOADING DOCK AT HIGH STEEL BETWEEN GRID G & J**  
3/4" = 1'-0"



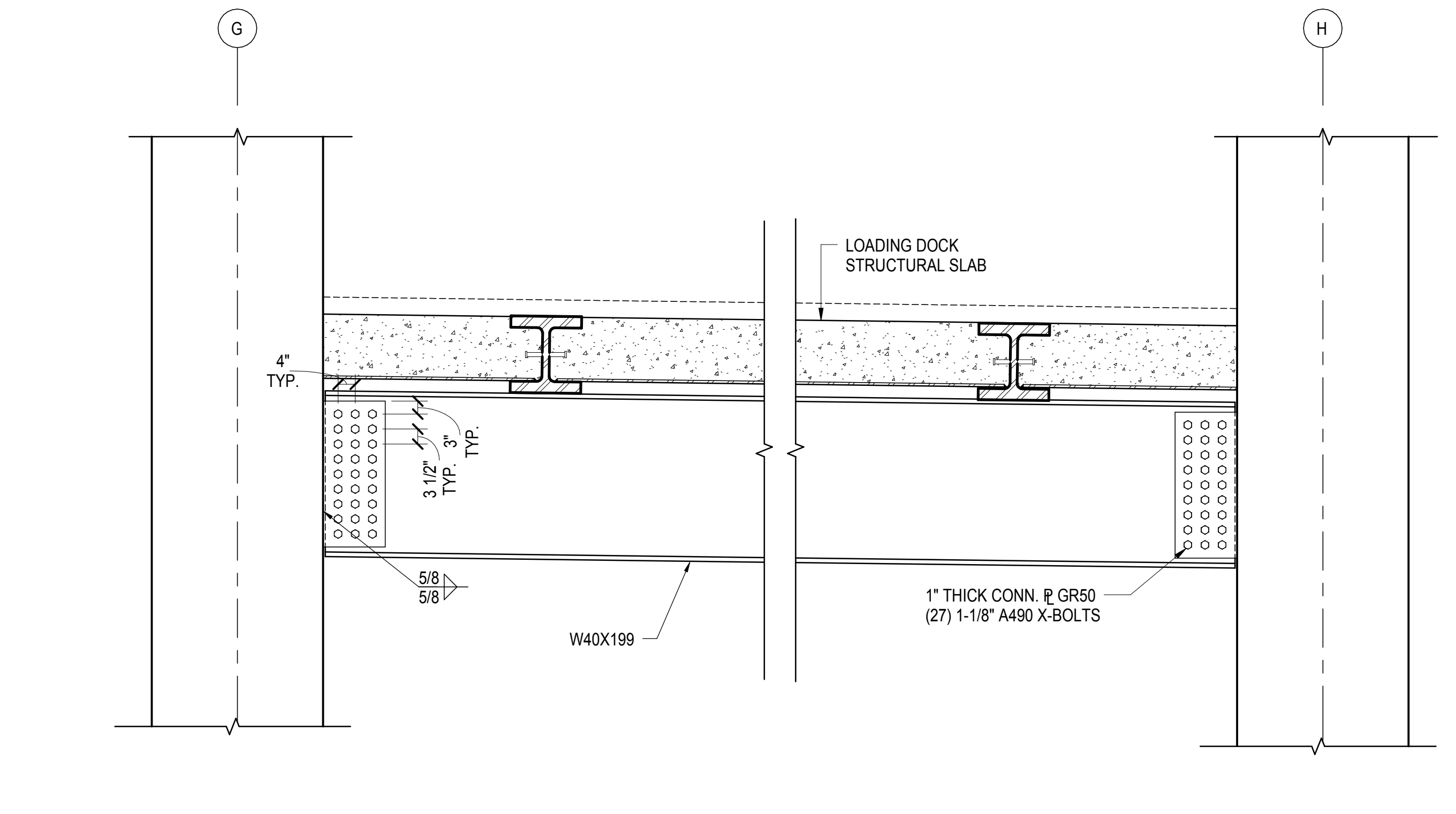
**2 SECTION AT LOADING DOCK AT SLAB BETWEEN GRID G & J**  
3/4" = 1'-0"



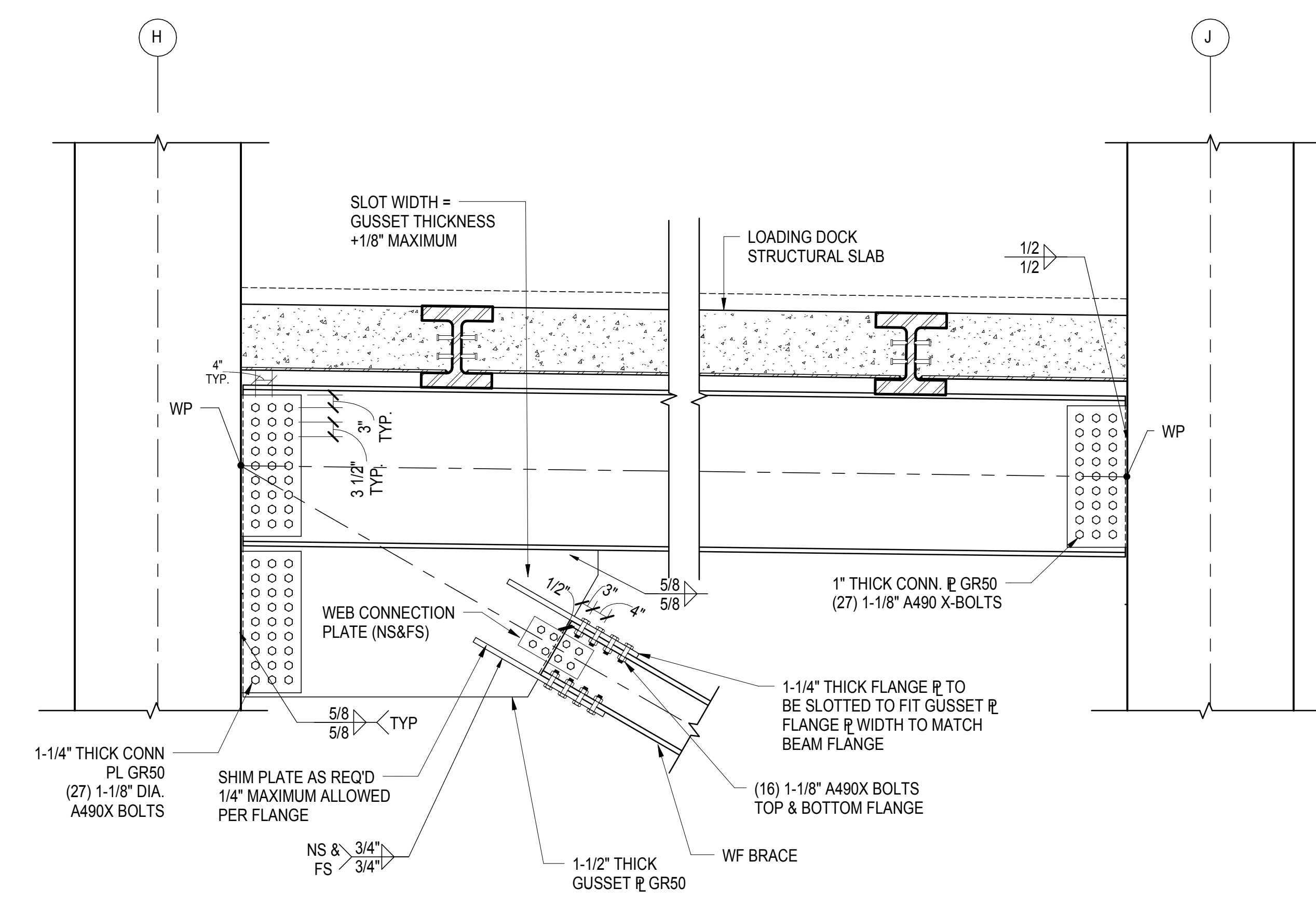
**3 LOADING DOCK BEAMS BETWEEN K & N**  
1" = 1'-0"



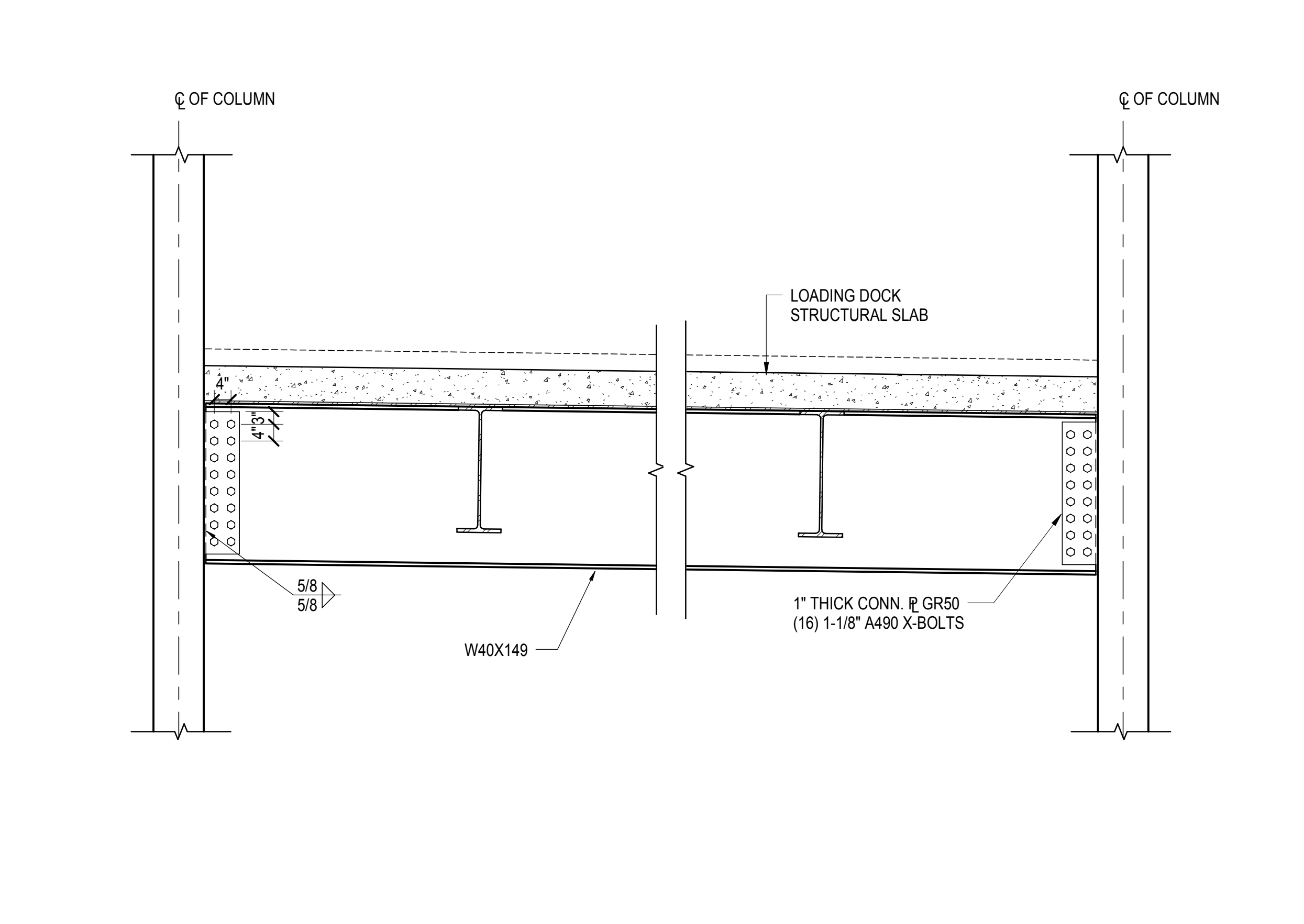
**4 LOADING DOCK BEAMS BETWEEN J & K**  
1" = 1'-0"



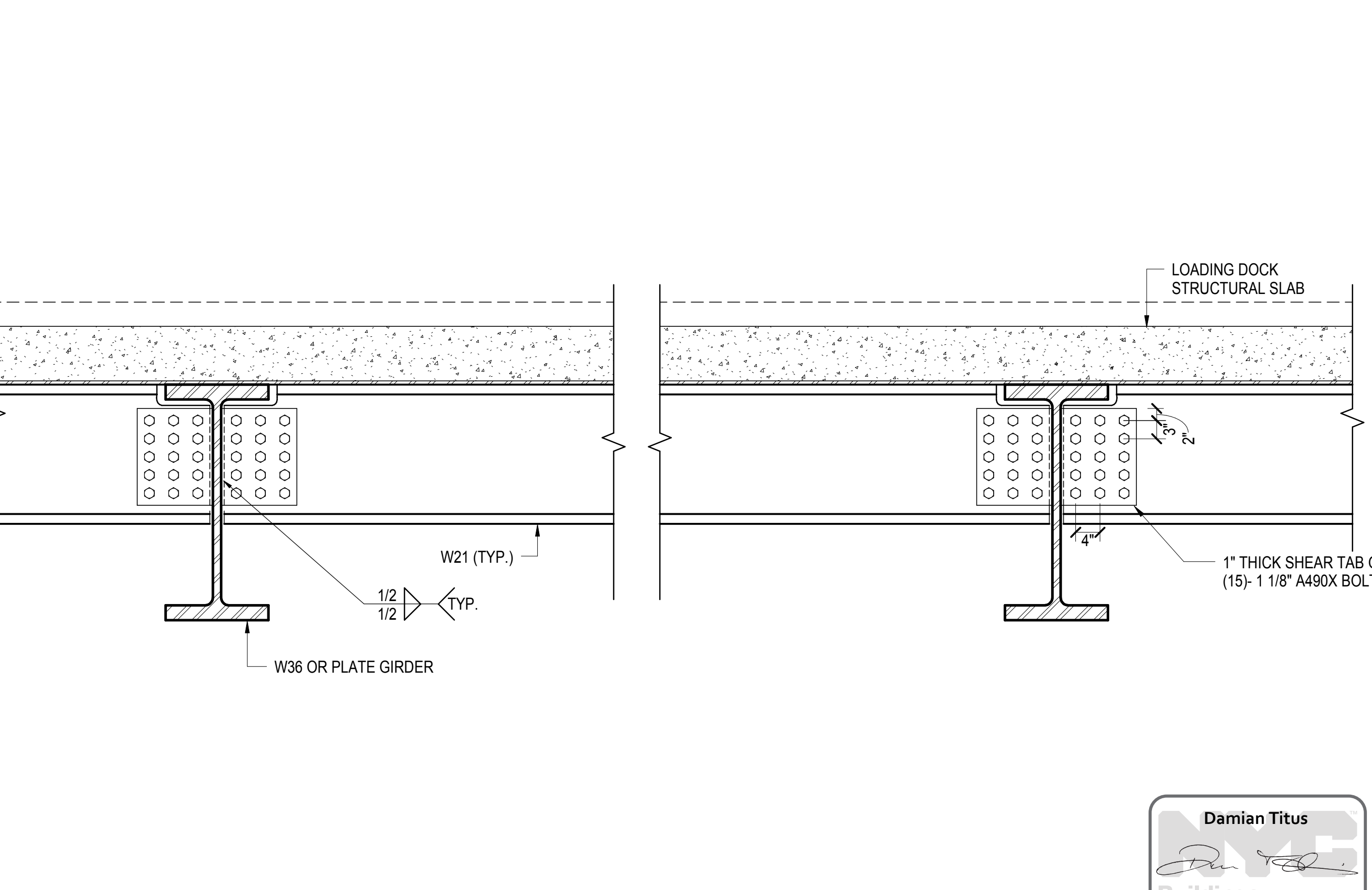
**5 LOADING DOCK GIRDER - W40X199 CONNECTION**  
1/2" = 1'-0"



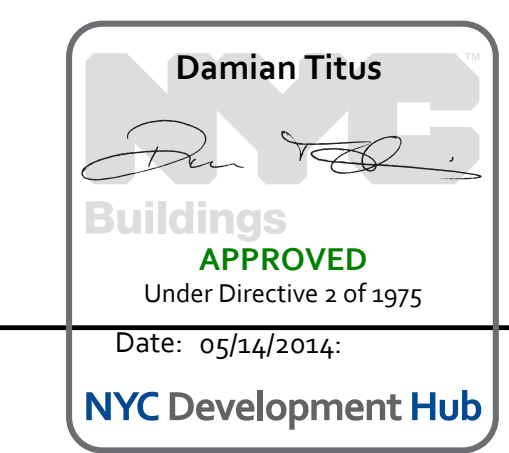
**6 LOADING DOCK GIRDER BETWEEN COLUMNS H12 & J12**  
1/2" = 1'-0"



**7 LOADING DOCK GIRDER - W40X149 CONNECTION**  
1/2" = 1'-0"

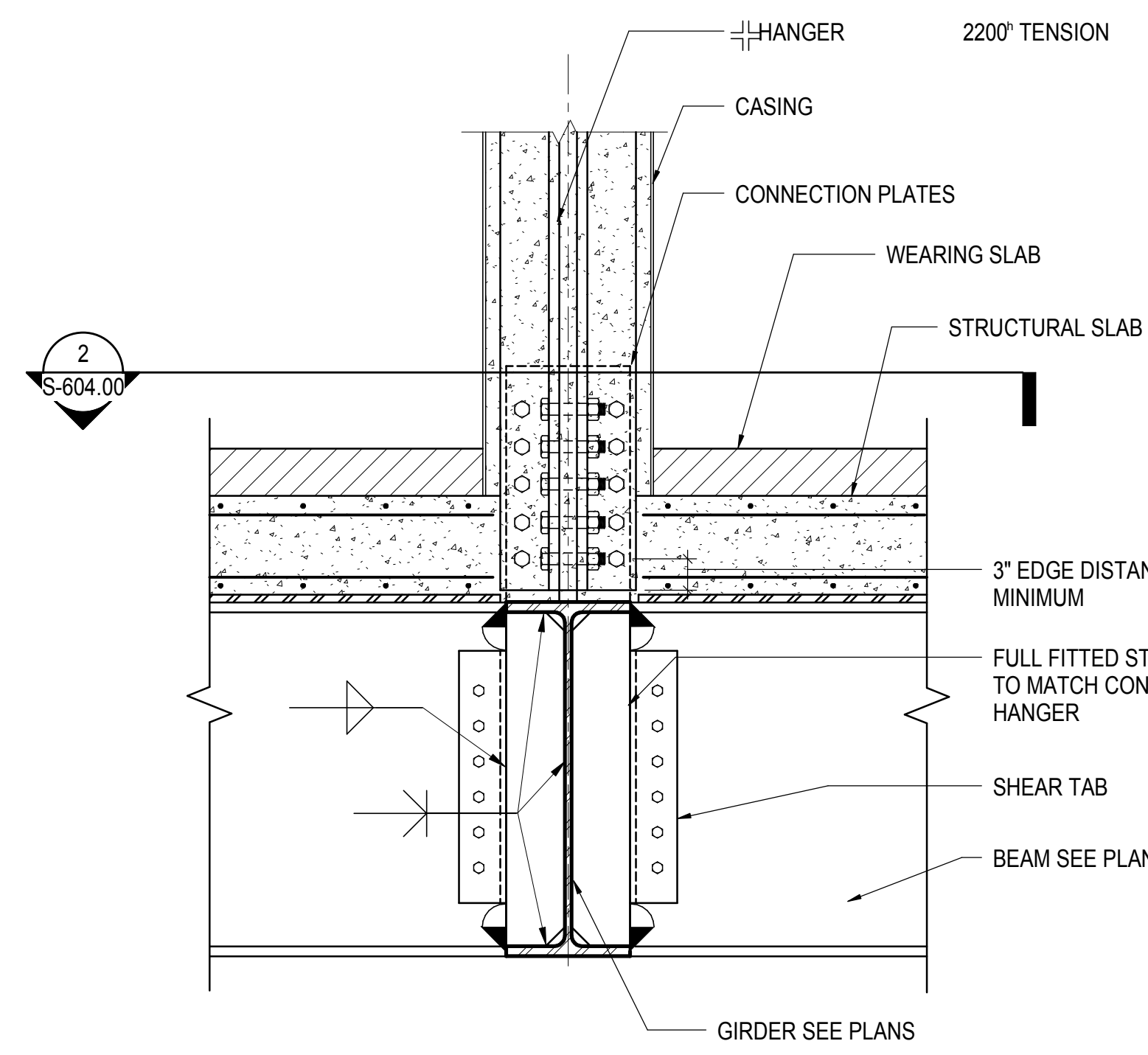


**8 LOADING DOCK BEAMS BETWEEN GRID 8 & 10**  
3/4" = 1'-0"

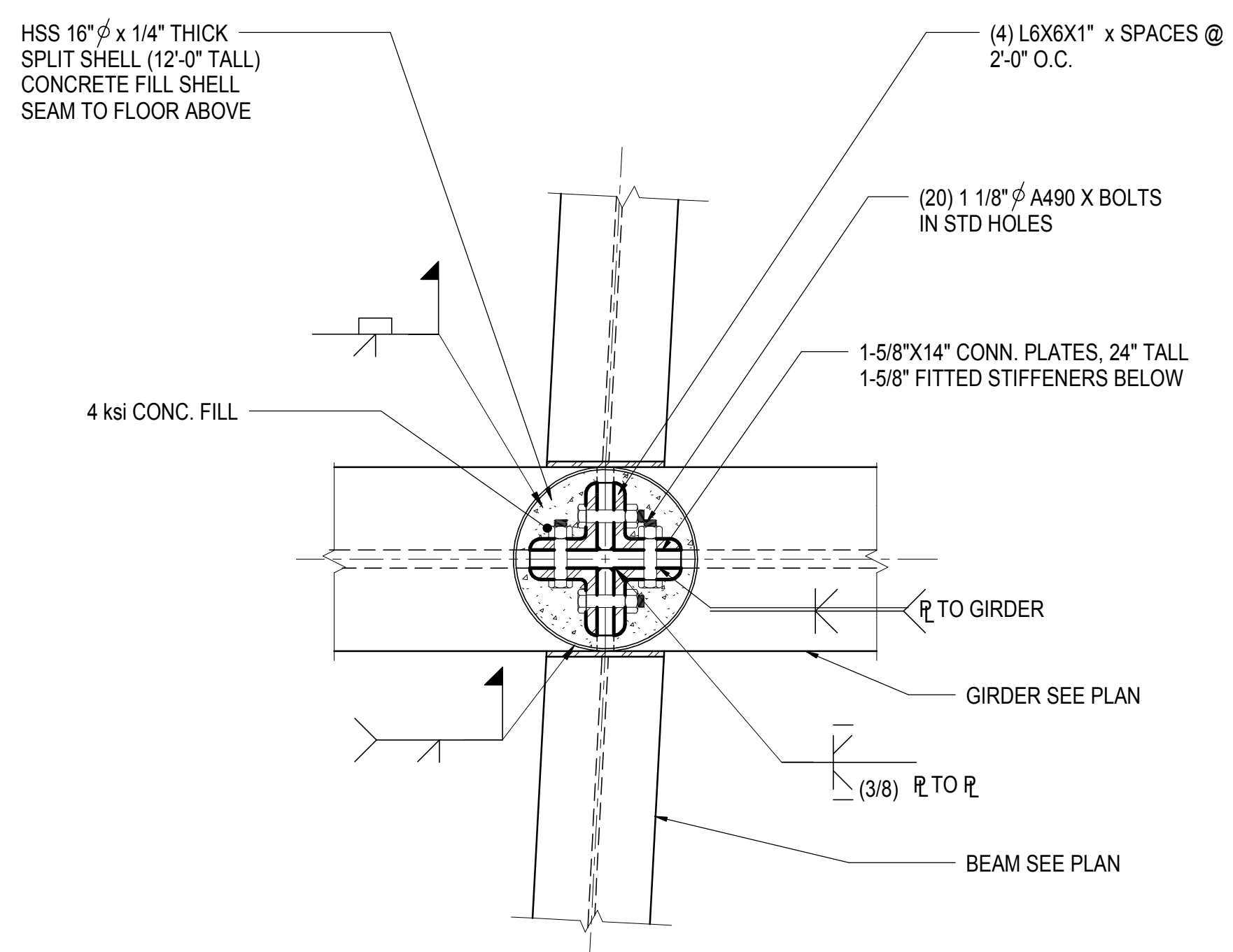


10TH AVE LOADING DOCK - SECTIONS AND DETAILS  
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5/4/2014 3:29:34 PM

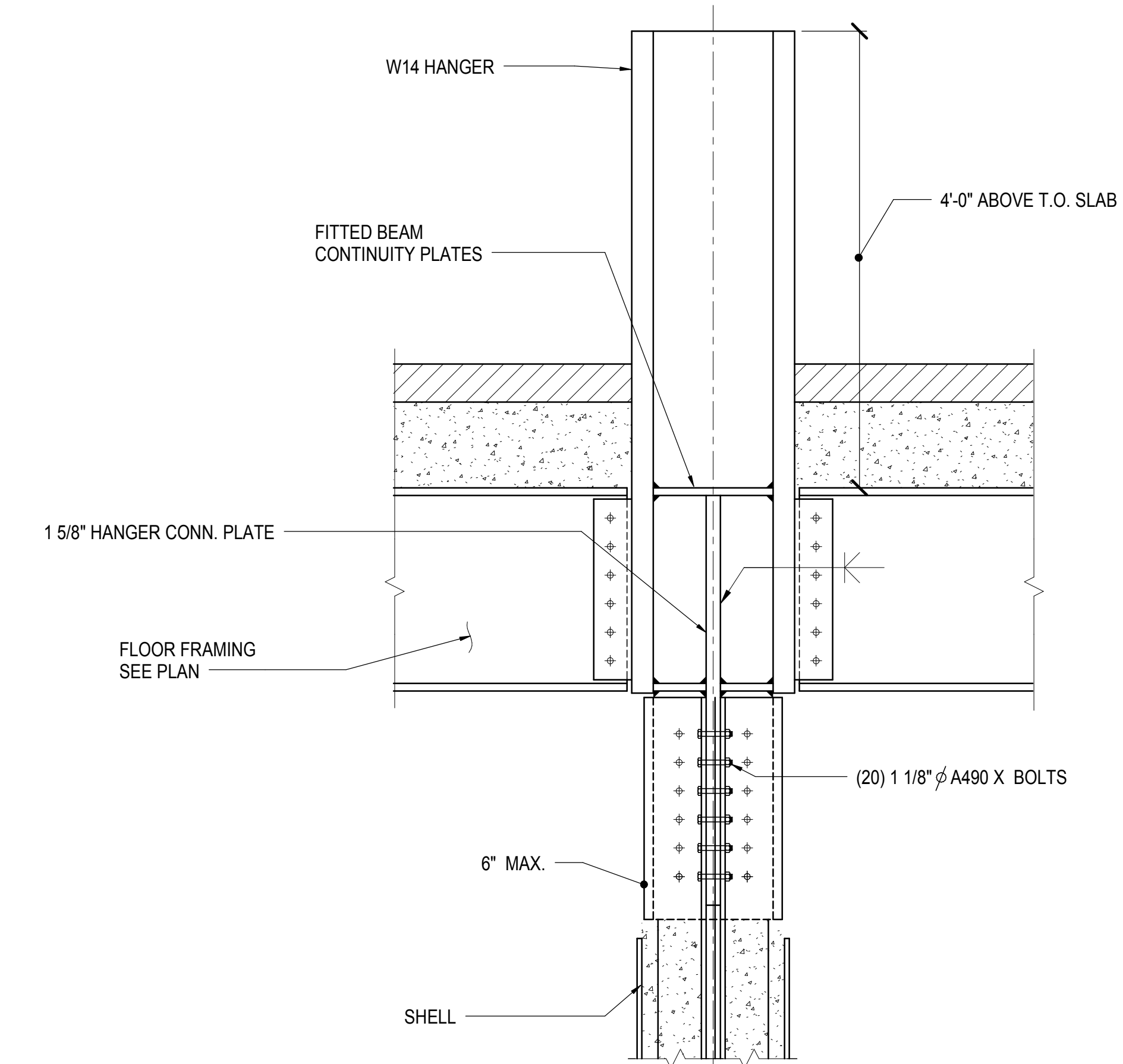




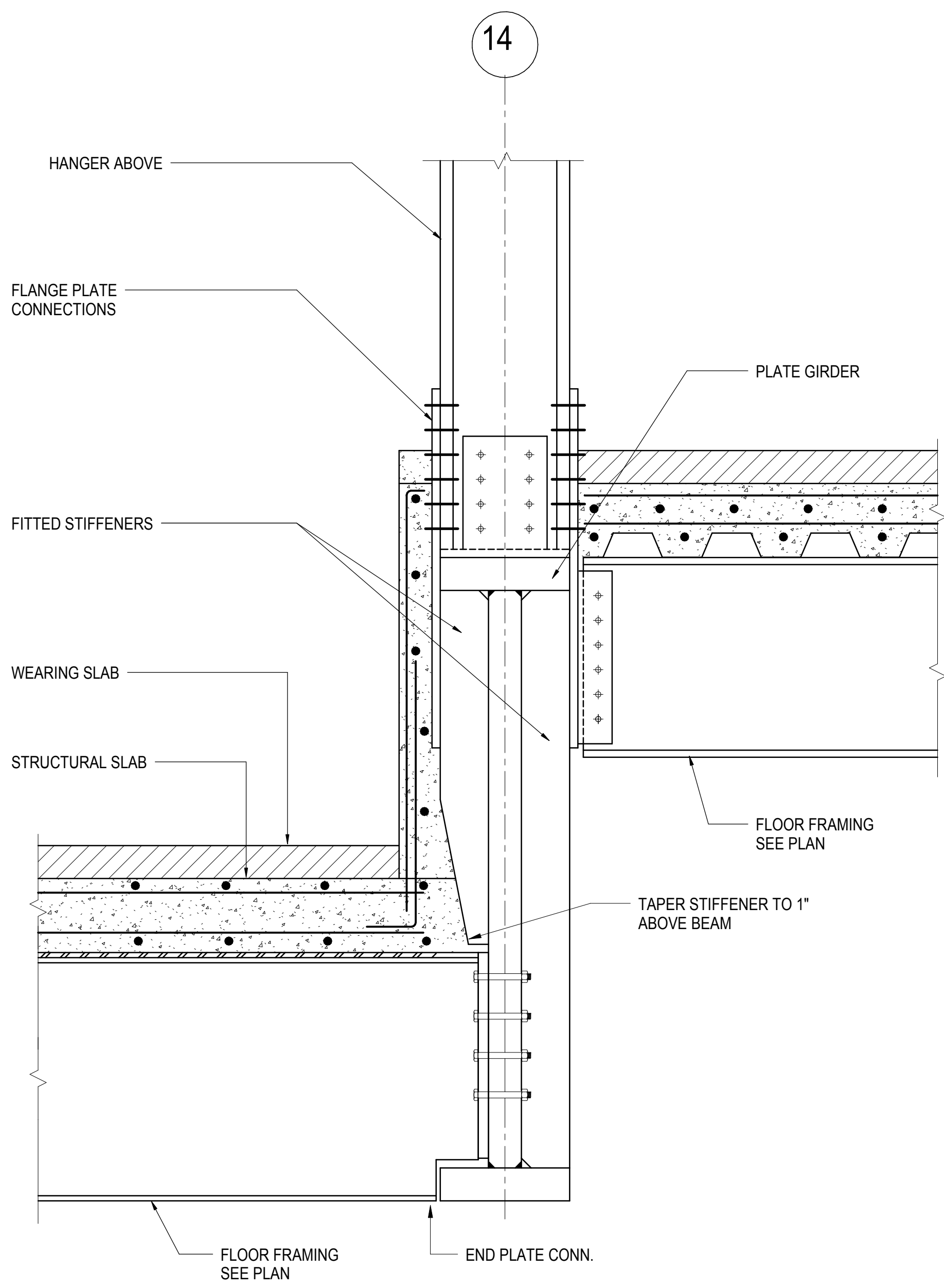
**1** **LOADING DOCK HANGER AT K & L BASE CONNECTION SECTION**  
1" = 1'-0"



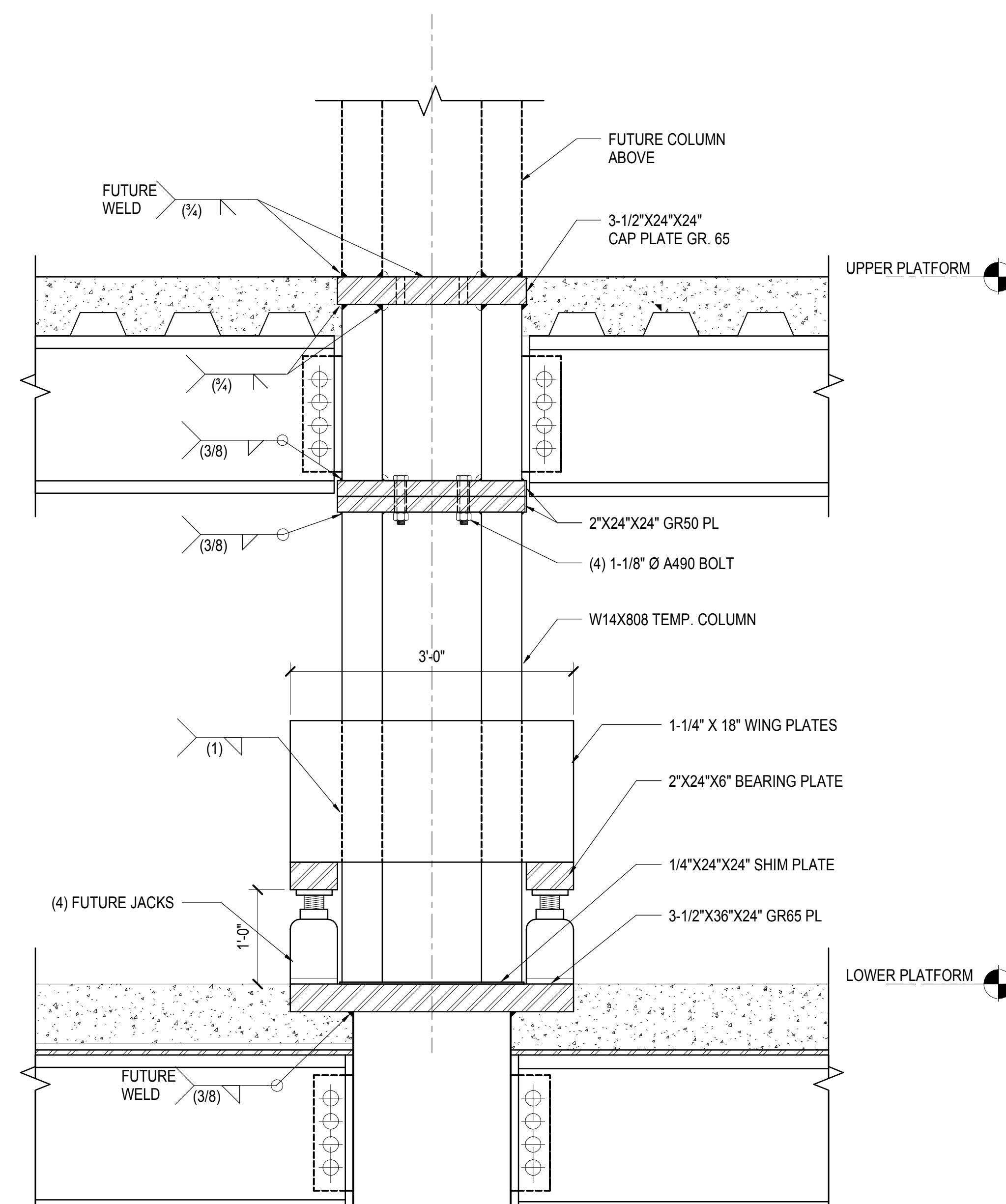
**2** **K-12 7 L-12 HANGER BOTTOM DETAIL**  
1" = 1'-0"



**3** **K-12 & L-12 HANGER TOP DETAIL**  
1" = 1'-0"



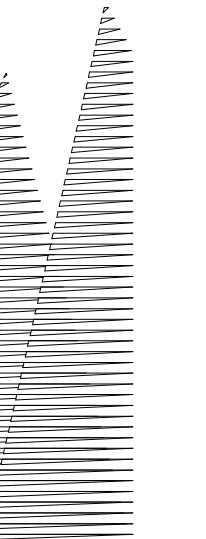
**5** **SECTION 14**  
1" = 1'-0"



**4** **J-10 TEMP COLUMN**  
1" = 1'-0"

**HUDSON YARDS PLATFORM**

Address  
530 WEST 33RD STREET  
NEW YORK, NY



Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Owner  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
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Construction Manager  
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New York, NY 10017  
Tel: 212.708.3600

Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
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Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

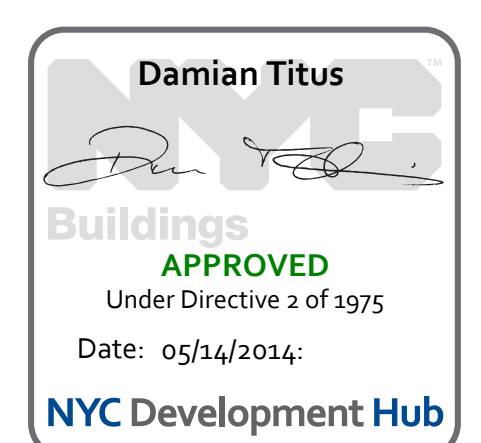
Civil, Mechanical, Electrical, Plumbing  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

NYC DOB FILING	Date
L.I.R.R. - PRE-FINAL 100%	12/4/2013
M&U - PLATFORM SUBMISSION	11/22/2013
Δ - DR-02 PHASE I STRUCTURE UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ - DR-01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013

Rev. Plot



Date: 02/15/2013  
Project No: N11330.00  
Author: [Signature]  
Plot Number: [Signature]

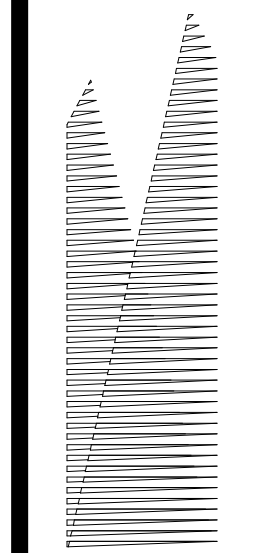
**HYE -PL -S-604.00**  
Drawing Title  
**10TH AVE LOADING DOCK - SECTIONS AND DETAILS**

Drawing Number / Revision Drawing Number  
**S-604.00**









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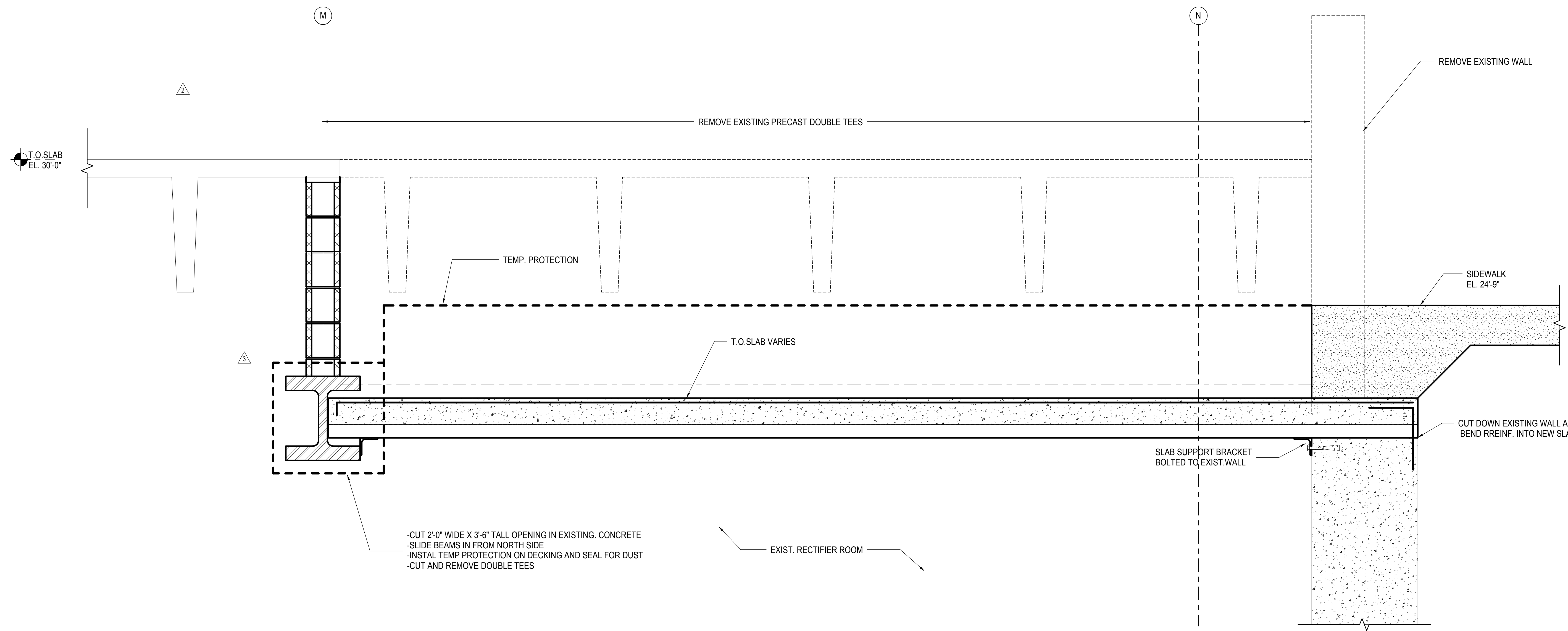
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
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Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

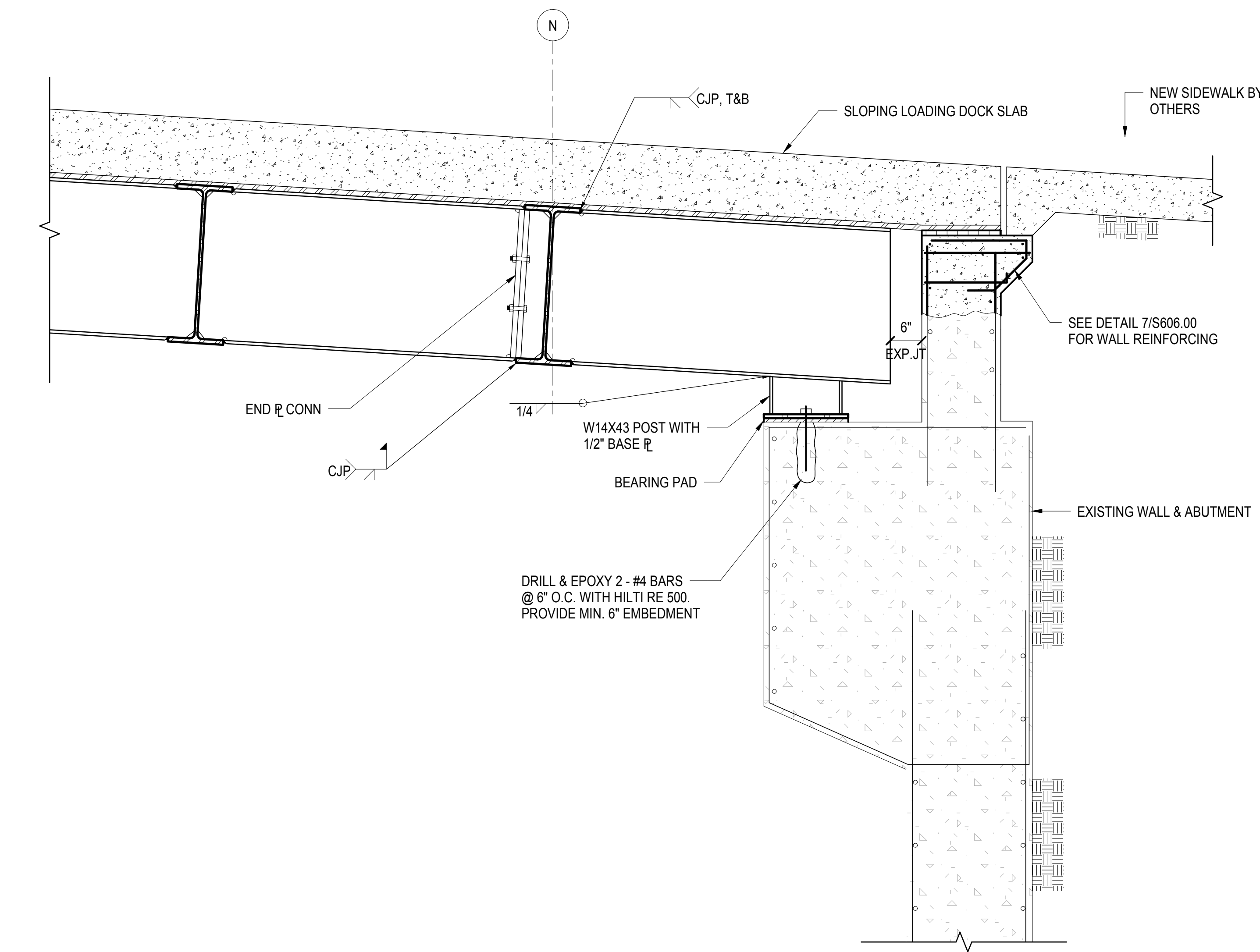
NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
Md - PLATFORM SUBMISSION	11/22/2013
Δ - DR-01 PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ - DR-01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 60% SUBMISSION	8/30/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/28/2013
NYC DOB FILING	5/28/2013

Rev. Plan



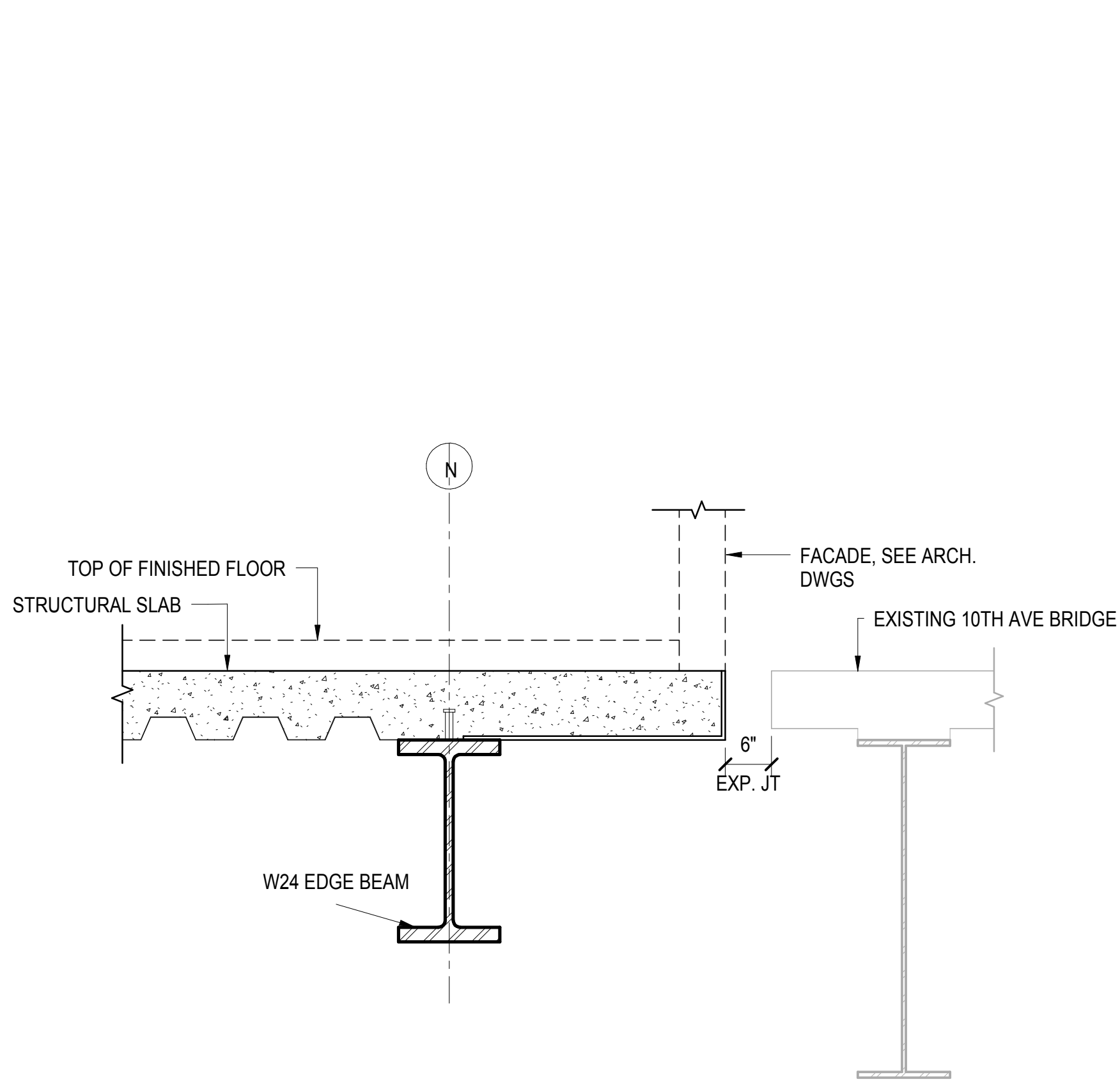
**1 SECTION AT GRID M - AT EXISTING SUBSTATION BUILDING**

1" = 1'-0"



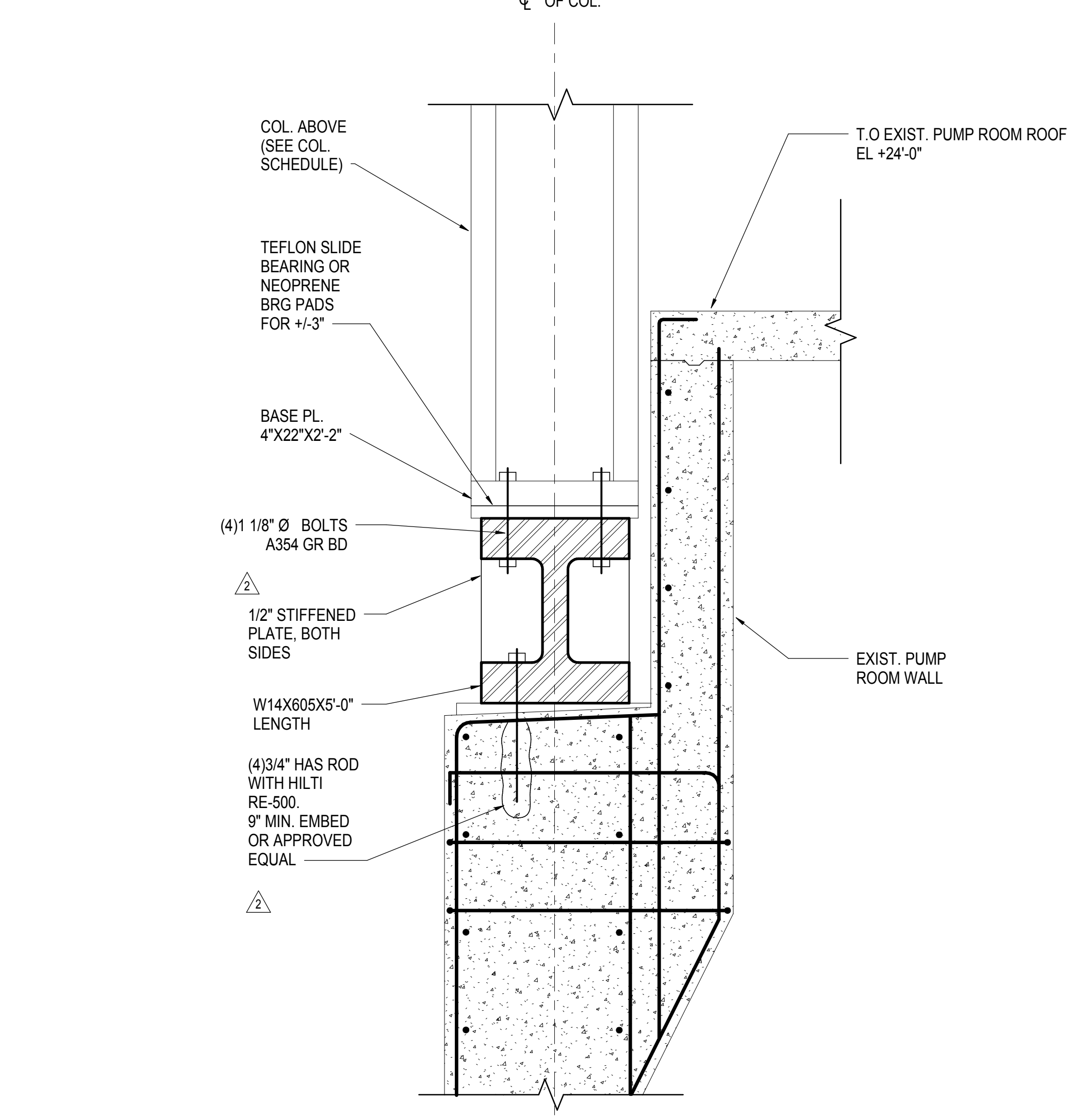
**2 SECTION AT GRID N - AT 10TH AVE LOADING DOCK**

3/4" = 1'-0"



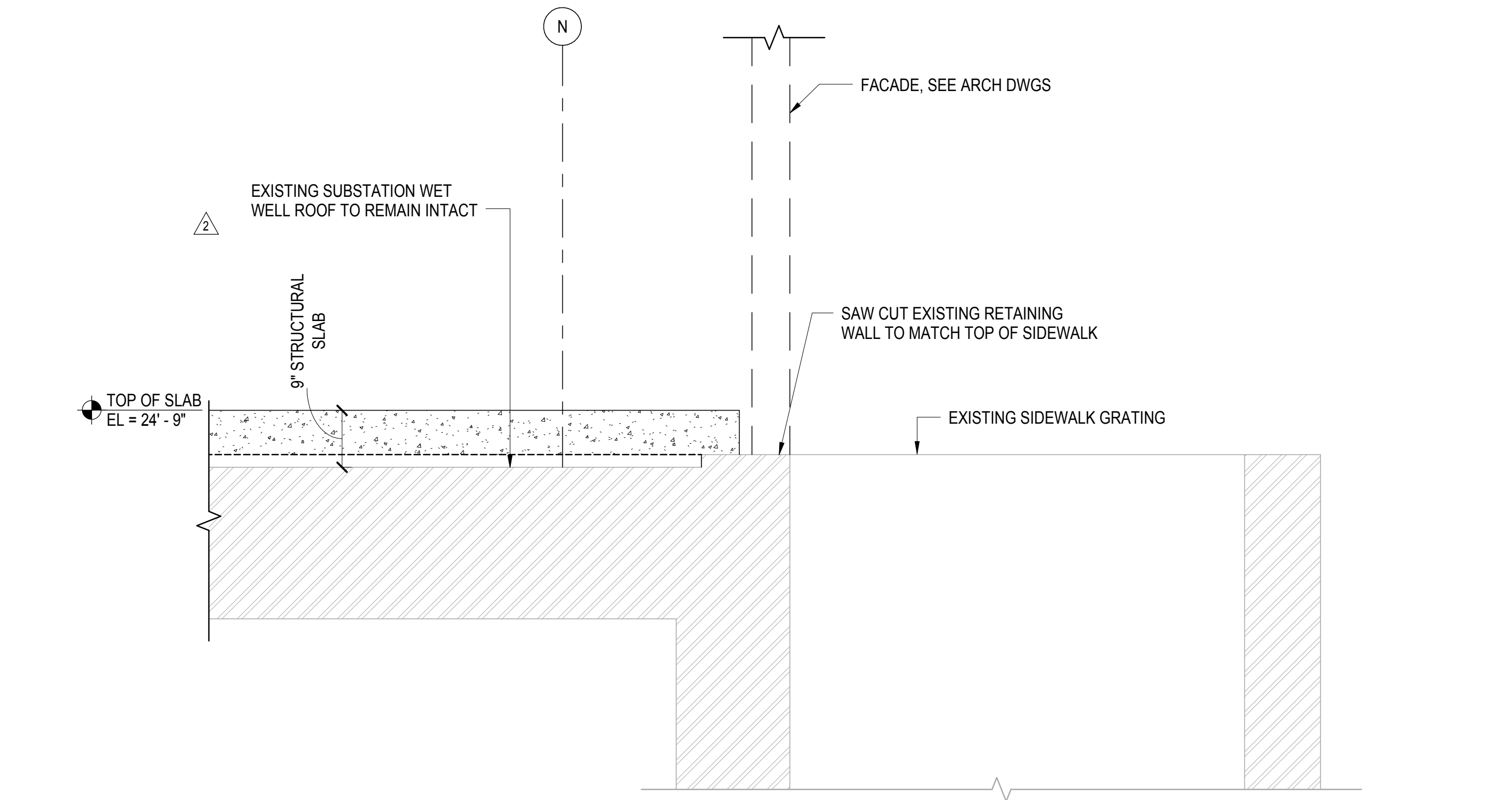
**4 GRID N - SECTION AT 10TH AVE BRIDGE**

3/4" = 1'-0"



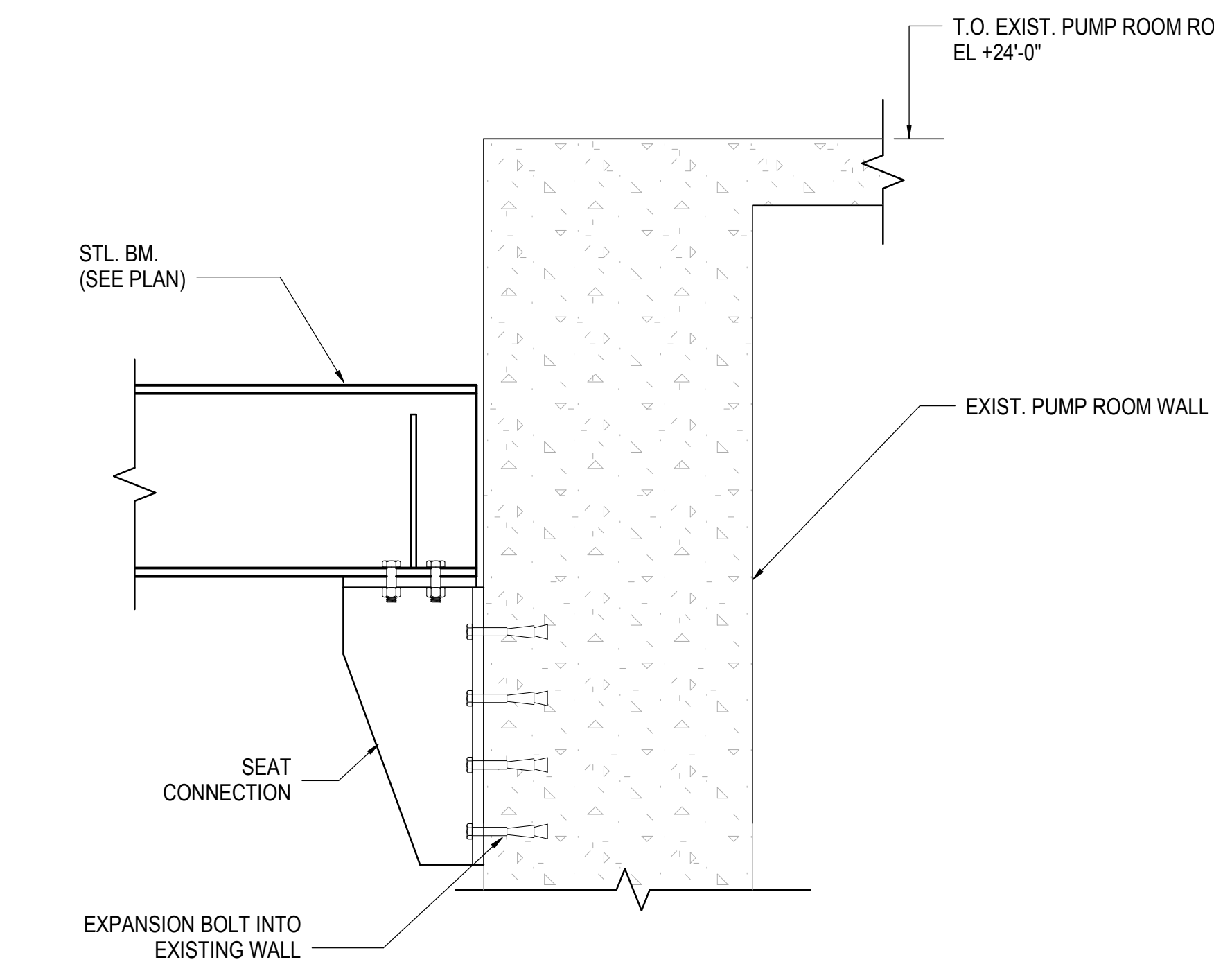
**5 COLUMN SUPPORT AT M14.3**

1" = 1'-0"



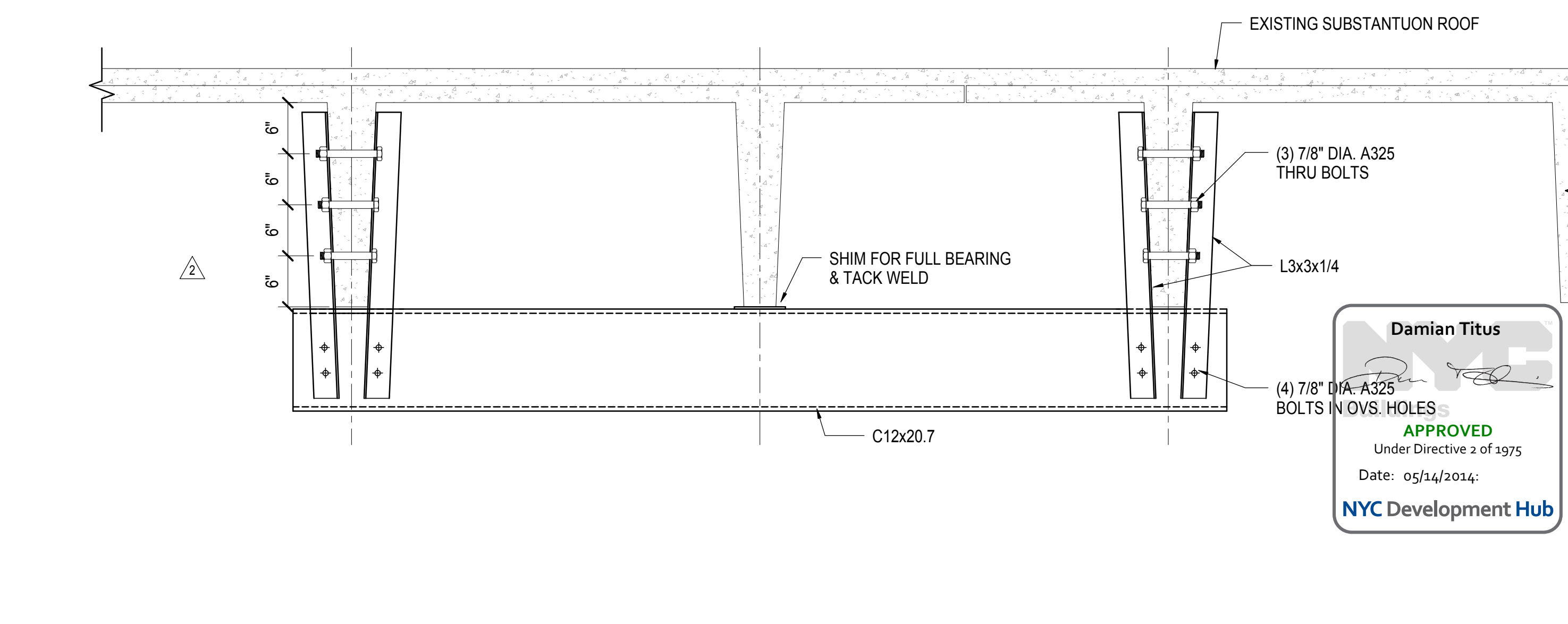
**3 SECTION AT GRID N - AT EXISTING SUBSTATION WET WELL**

3/4" = 1'-0"



**6 CONNECTION TO EXIST. PUMP ROOM AT N 14.5**

1" = 1'-0"



**7 SECTION AT EXIST. SUBSTATION PRECAST REMOVAL**

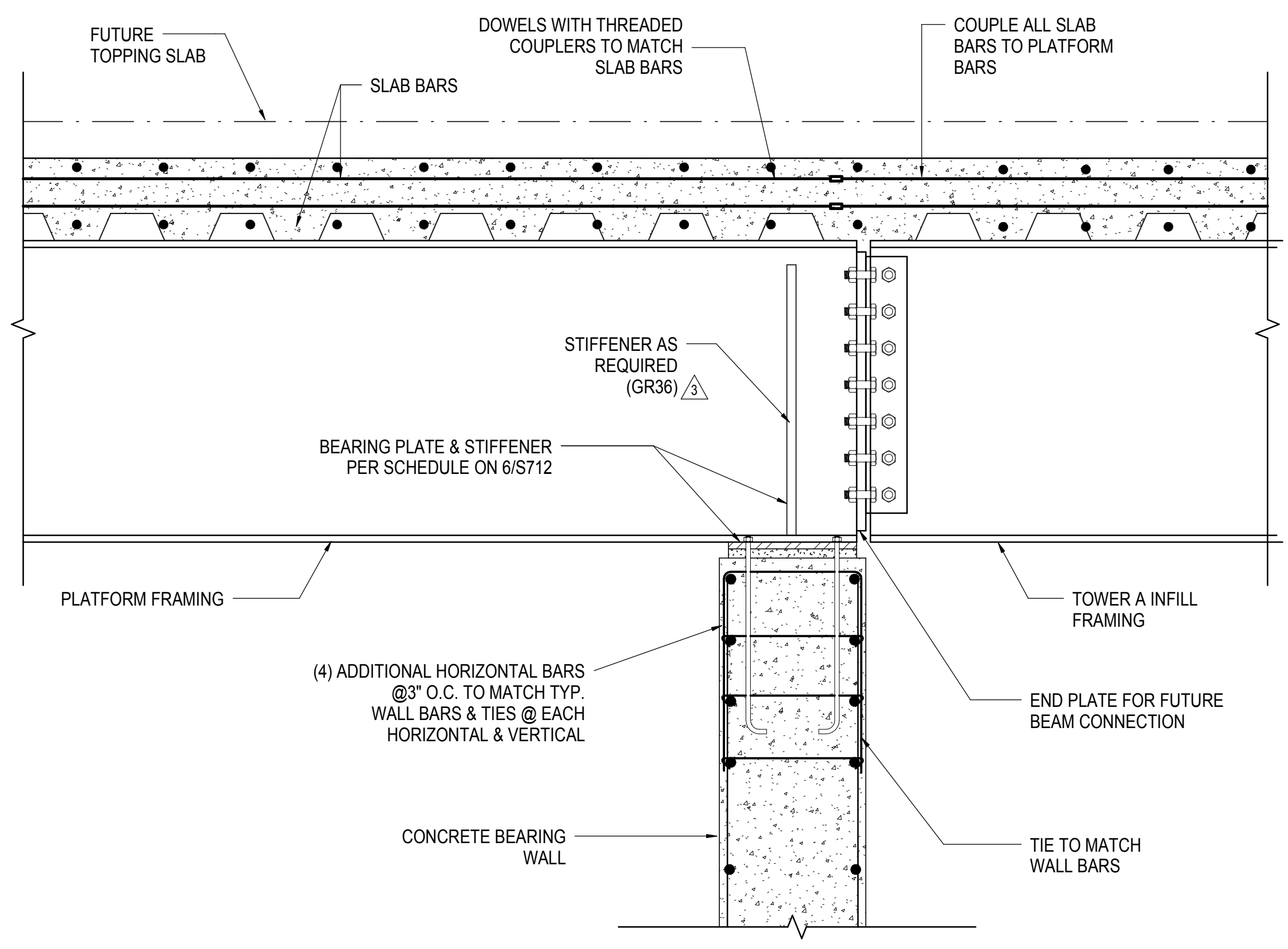
1" = 1'-0"

Date: 05/29/2013  
Project No: N11330.00  
Author: Author

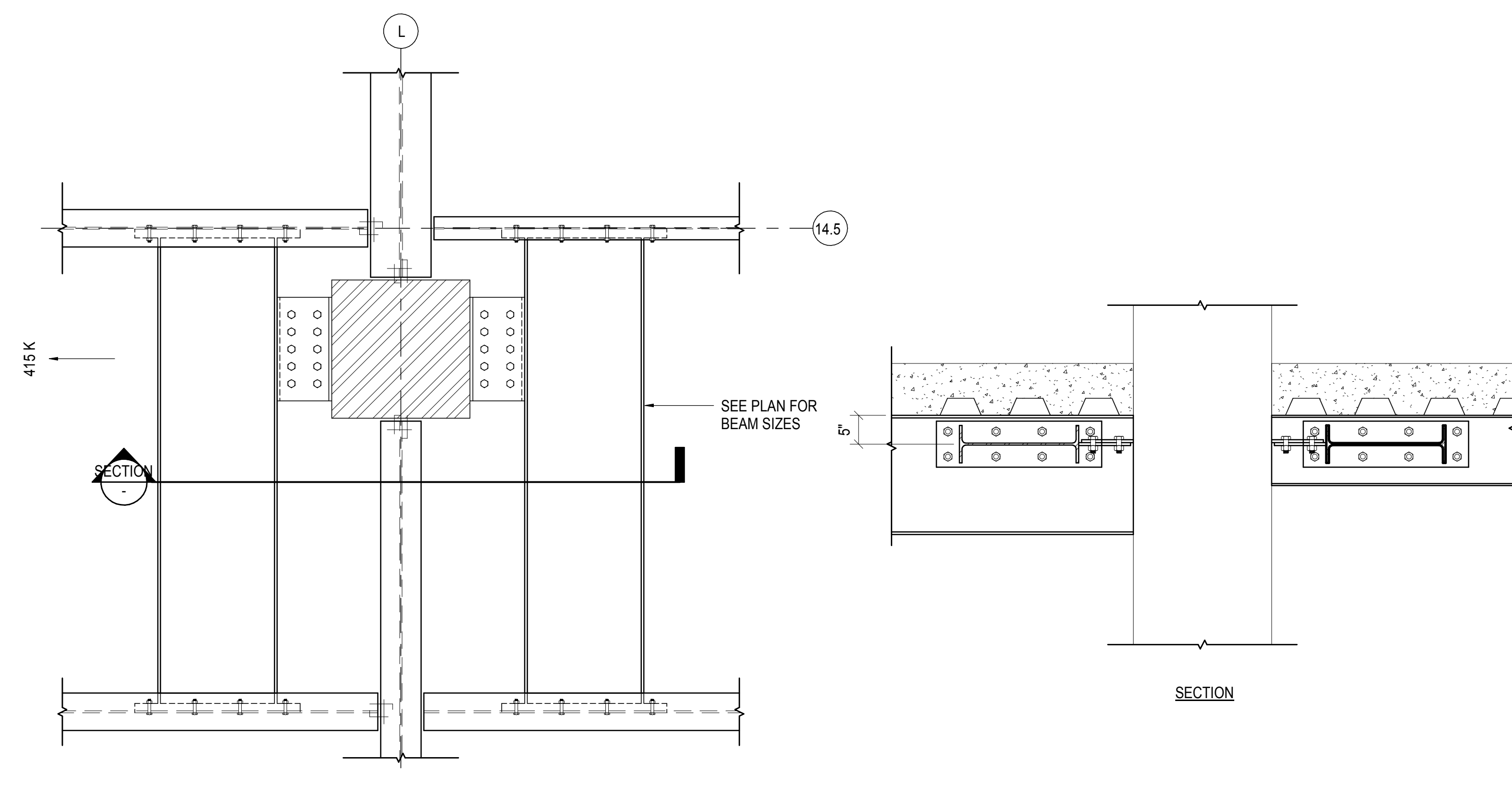
**HYE-PL-S-606.00**  
Drawing Title  
**SECTIONS AND DETAILS ALONG GRIDLINE N**

Drawing Number / Revision Drawing Number  
**S-606.00**  
SHEET 156 OF 201





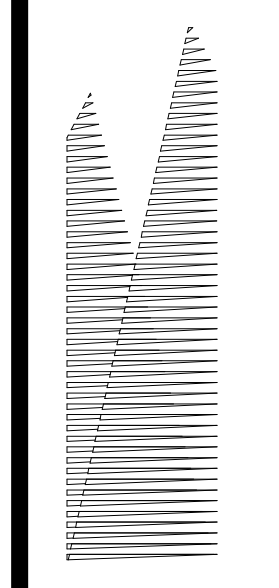
1 SECTION AT WALL ALONG NORTH EDGE OF YARDS  
1" = 1'-0"



2 PLAN DETAIL AT COLUMN L/14.5  
3/4" = 1'-0"

**HUDSON YARDS PLATFORM**

Address  
530 WEST 33RD STREET  
NEW YORK, NY



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**Construction Manager**  
Fishman Construction Corporation  
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**Structural Engineer**  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

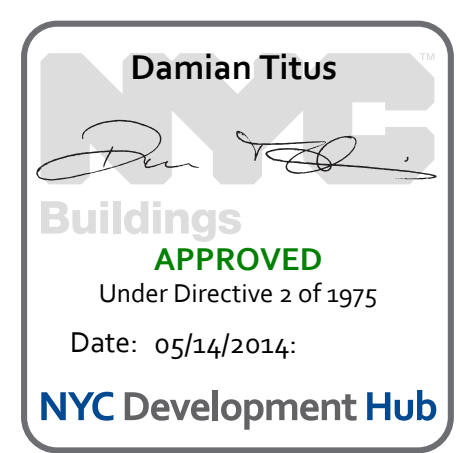
**Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security**  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

**LIRR Ventilation**  
Ove Arup & Partners P.C.  
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**LIRR Substation**  
AECOM  
605 Third Avenue  
New York, NY 10158  
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NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
MoE - PLATFORM SUBMISSION	
DE-02 PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
DE-01 PHASE 1 STRUCTURE UPDATE	9/20/2013
L.I.R.R. - 90% SUBMISSION	8/09/2013
MoE - Description	206

Rev. Plot

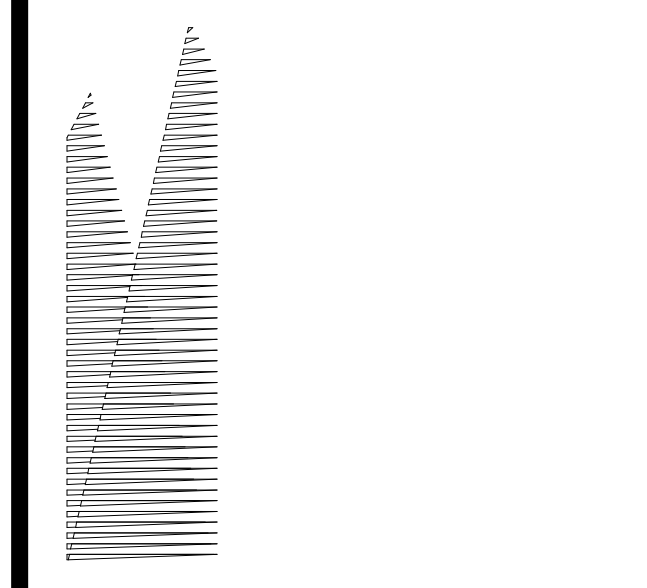


Date: 08/09/2013  
Project No: N11330.00  
Drawn By: Author  
Sheet Number: Author

**HYE-PL-S-607.00**  
Drawing Title  
**SECTIONS AND DETAILS**

Drawing Number / B/S/C/S Drawing Number  
**S-607.00**





Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
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Structural Engineer  
Thornton Tomasetti, Inc.  
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New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

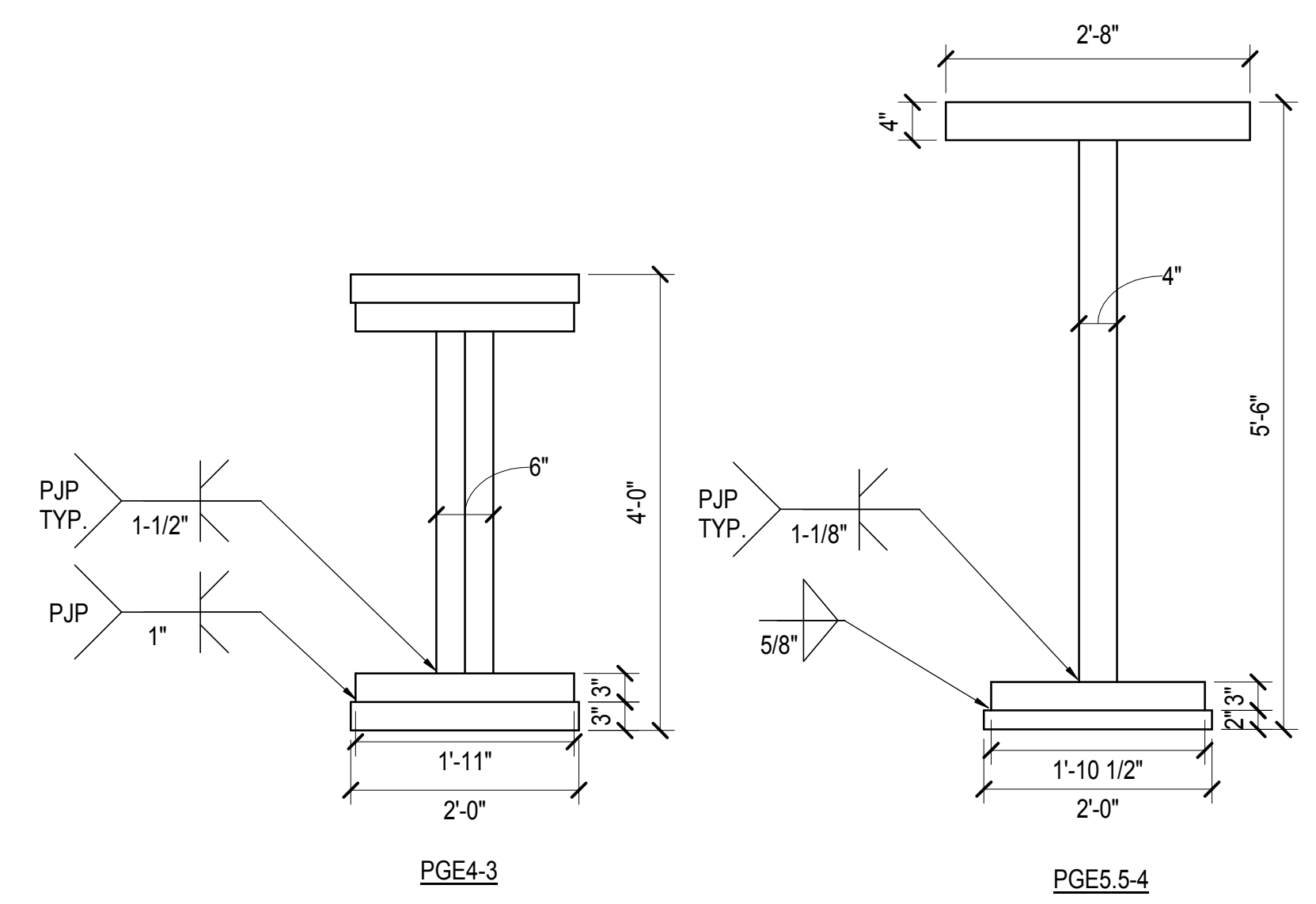
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

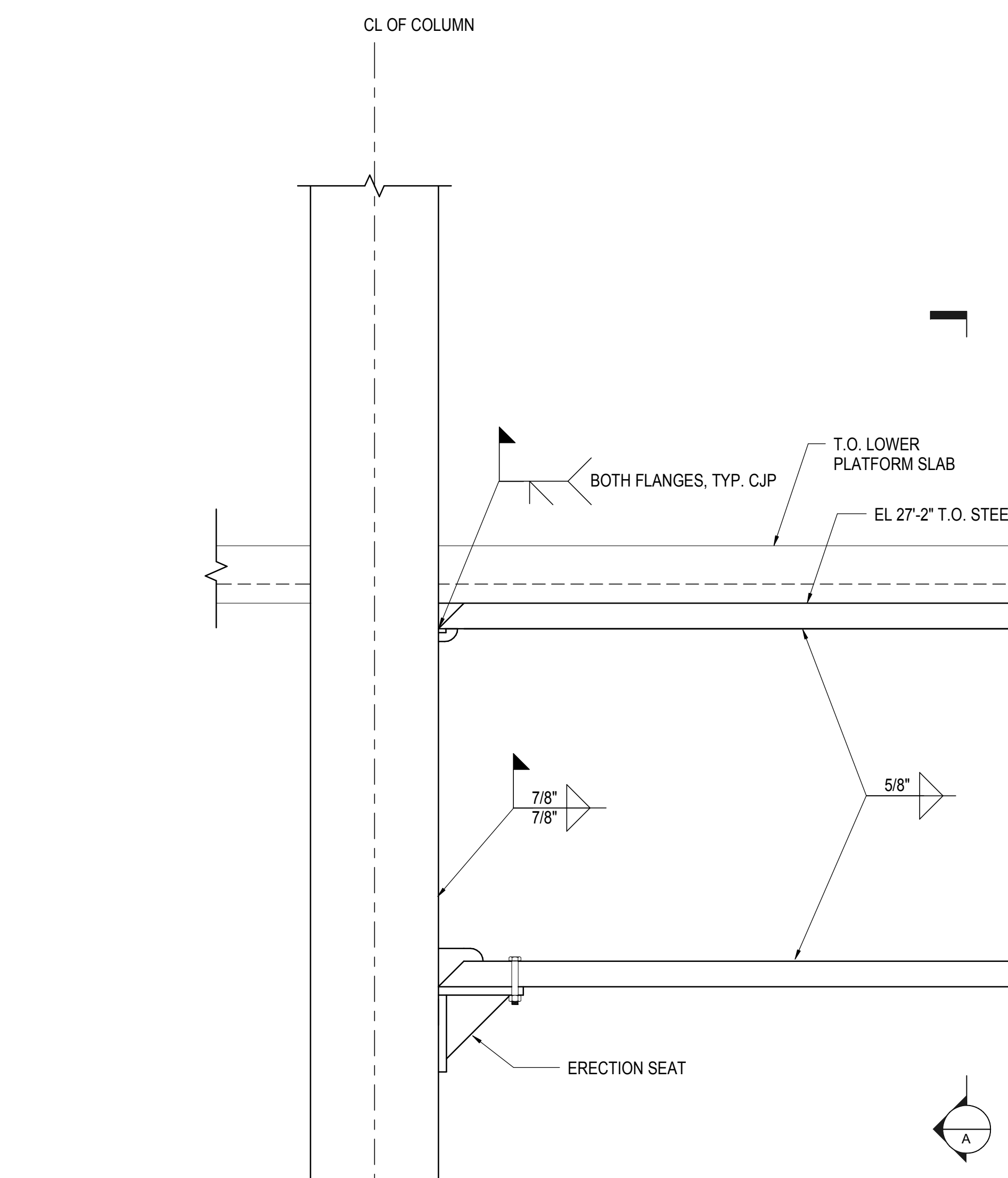
LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

TYPICAL PLATFORM PLATE GIRDERS									
LABEL	DEPTH (d) (IN)	FLANGE WIDTH (w) (IN)	FLANGE TH (t <sub>f</sub> ) (IN)	WEB TH (t <sub>w</sub> ) (IN)	SELFWEIGHT (LB/FT)	F <sub>y</sub> (KSI)	WELD (D)		
PGE4-1	48	24	4.00	2.50	926	50	1"		
PGE4-2	48	24	4.00	4.00	1198	50	1-3/4"		
PGE4-3	SEE SECTION 2/5810.00							1715	50
PGE5-1	60	24	4.00	2.50	1096	50	1"		
PGE5-1-1	66	24	4.00	2.50	1147	50	1"		
PGE5-1-2	66	24	4.00	3.50	1344	50	1"		
PGE5-1-3	66	30	4.00	4.00	1607	50	1"		
PGE5-1-4	SEE SECTION 2/5810.00							1607	50
PGE5-1-5	72	24	3.00	2.00	940	50	3/4"		
PGE5-2	72	30	4.00	4.00	1661	50	1"		

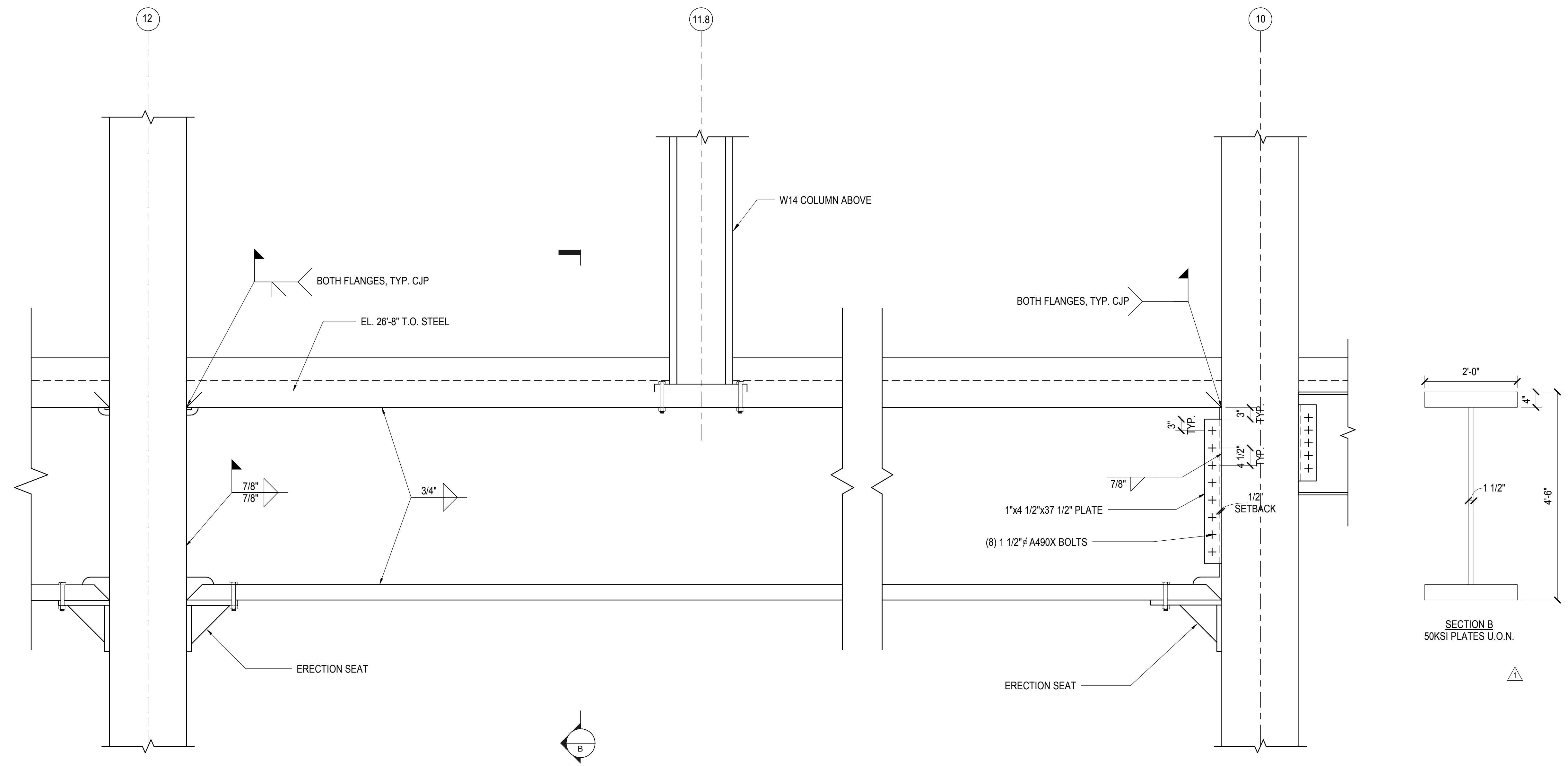
**1 TYPICAL PLATFORM PLATE GIRDER SCHEDULE**  
1/4" = 1'-0"



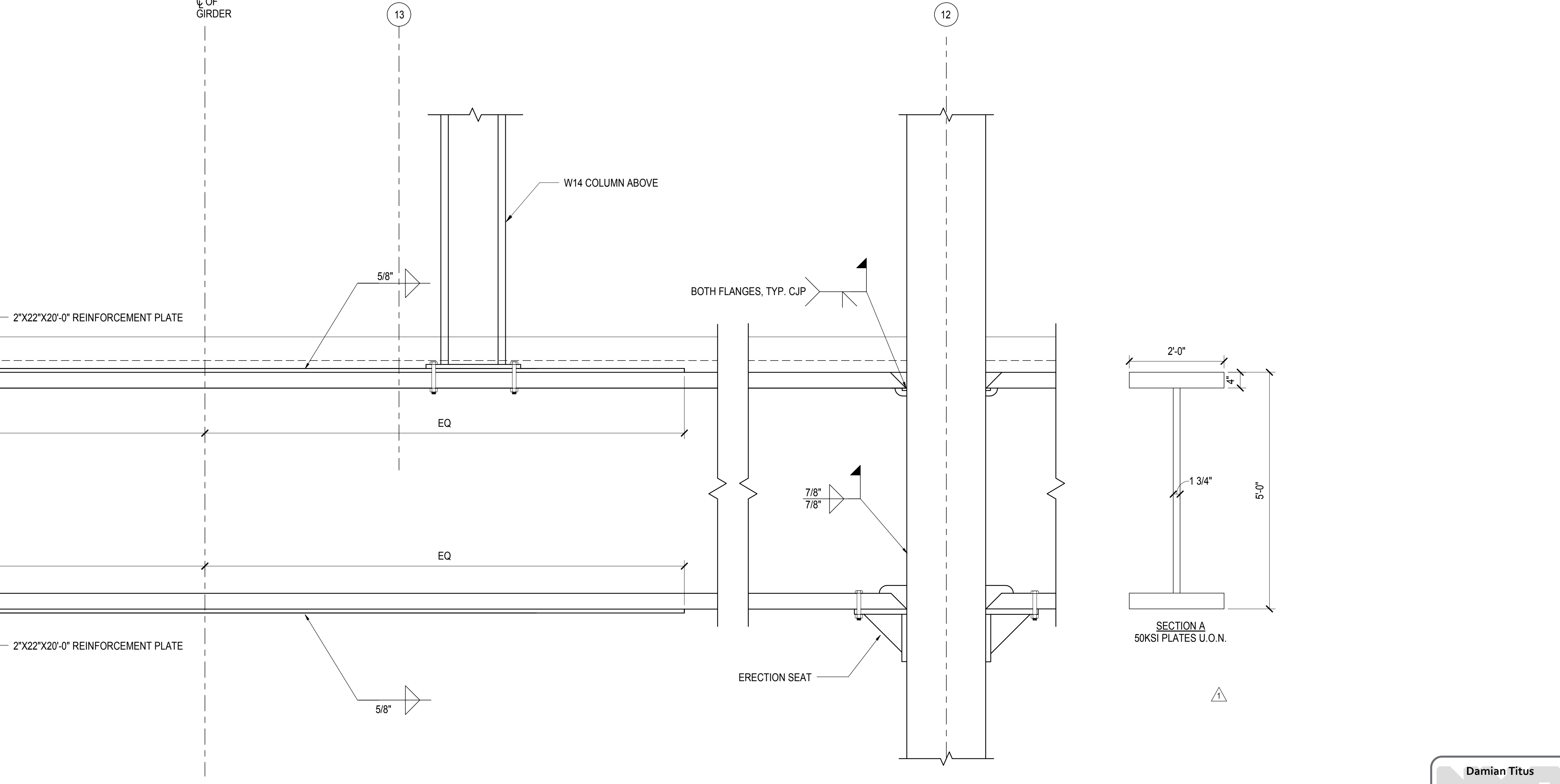
**2 ATYPICAL PLATE GIRDERS**  
3/4" = 1'-0"



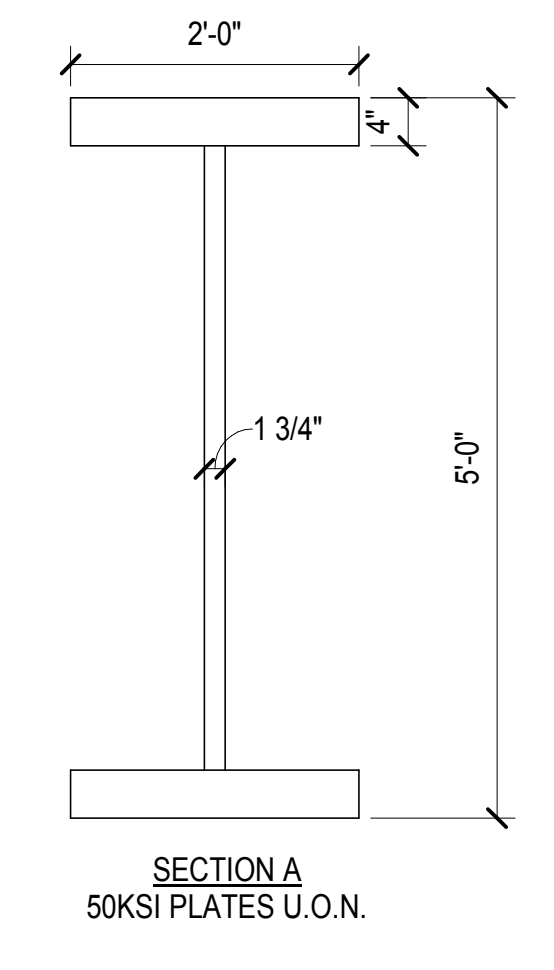
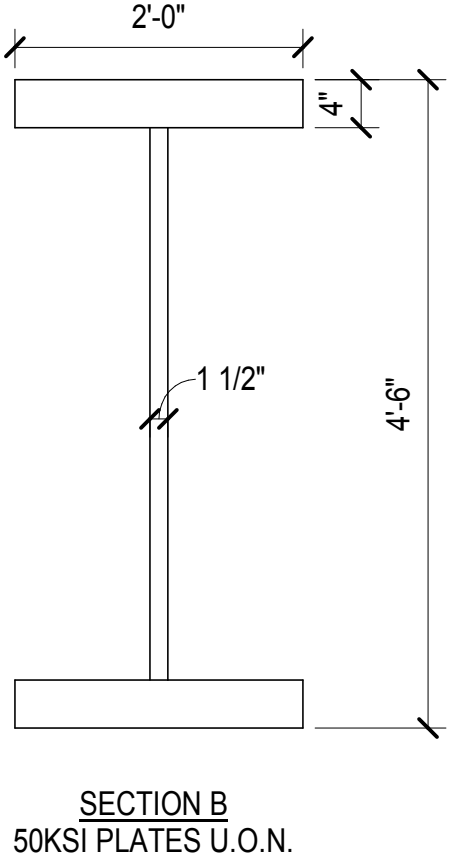
**3 TRANSFER GIRDER BETWEEN COLS G12 AND G10**  
3/4" = 1'-0"



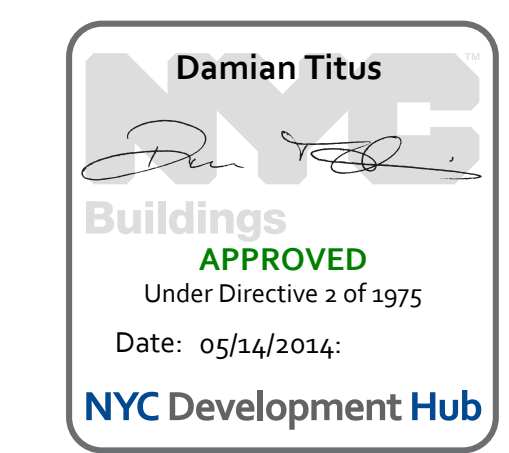
**3 TRANSFER GIRDER BETWEEN COLS G12 AND G10**  
3/4" = 1'-0"



**4 TRANSFER GIRDER BETWEEN COLS G14 AND G12**  
3/4" = 1'-0"



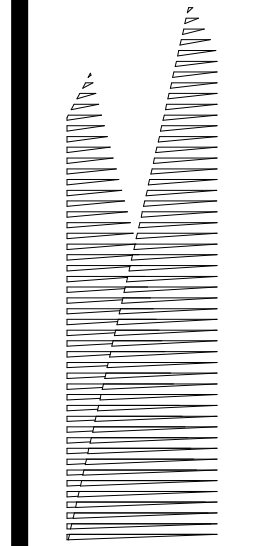
NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
MdE - PLATFORM SUBMISSION	
DI-02 PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/24/2013
DI-01 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC Description	206



Date: 08/09/2013  
Project No: N11330.00  
Author: [Signature]  
Mixer Number: [Signature]  
**HYE-PL-S-610.00**  
Drawing Title:  
**EAST PLATFORM PLATE GIRDER DETAILS**

S-610.00  
11/22/2013 3:25:07 PM  
C:\Schematic\N11330.00 - East Platform - Central Column





Client  
Related Companies  
60 Columbus Circle  
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Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

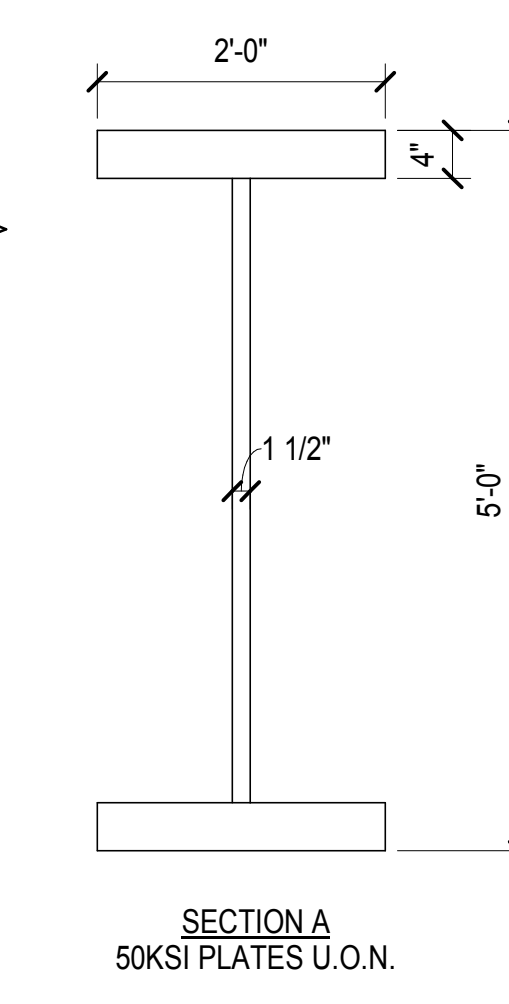
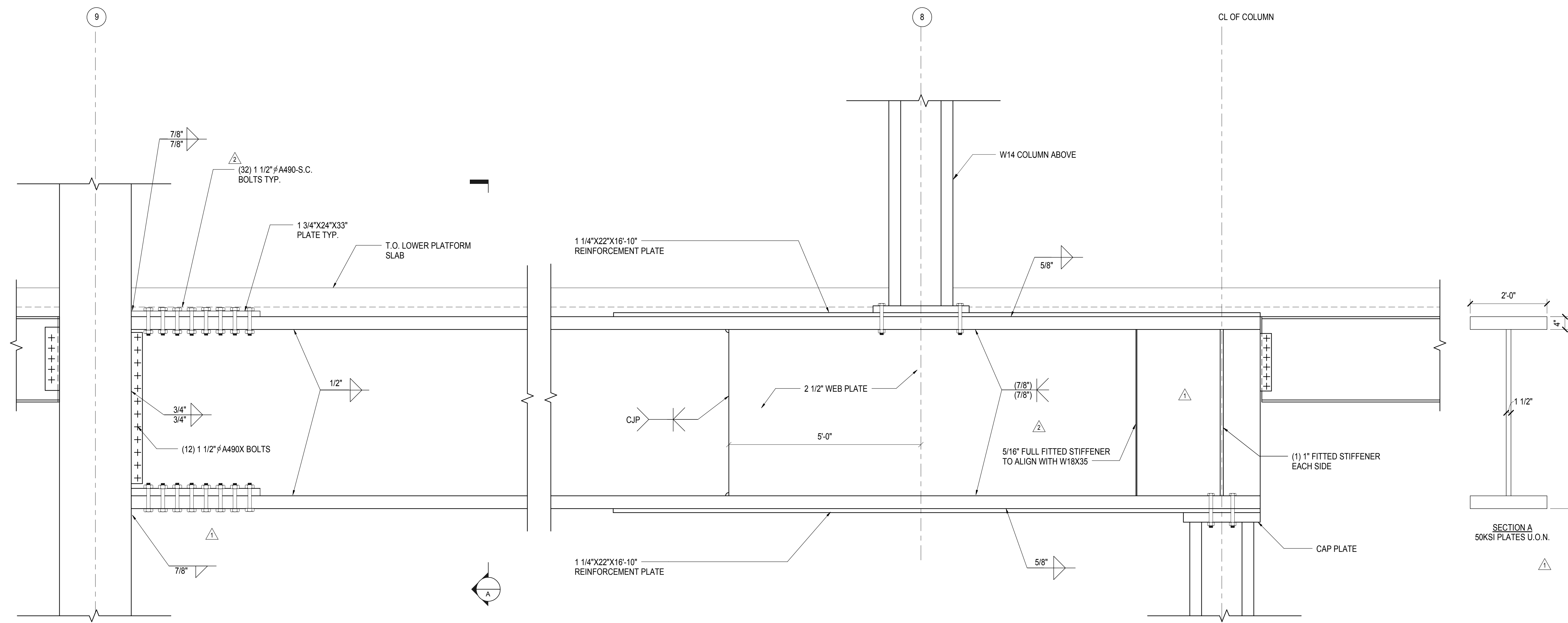
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
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Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
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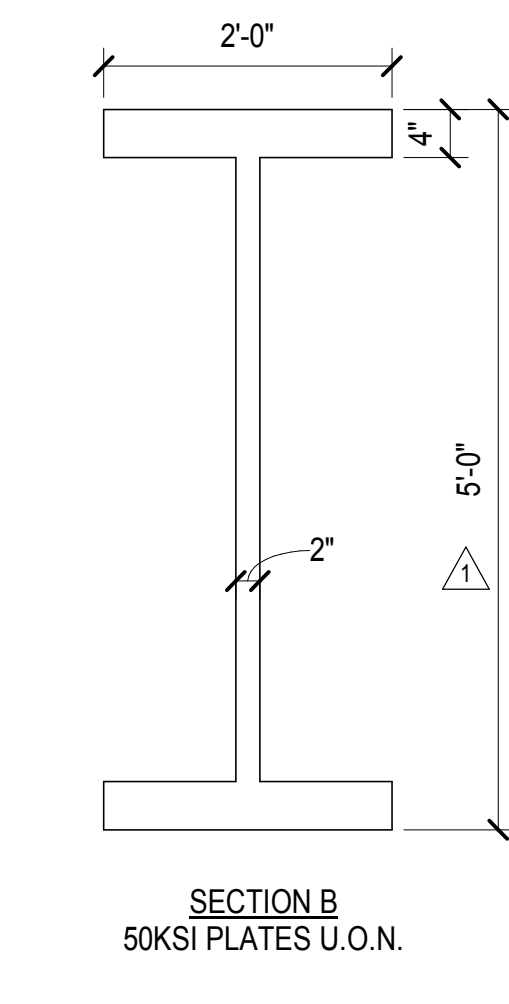
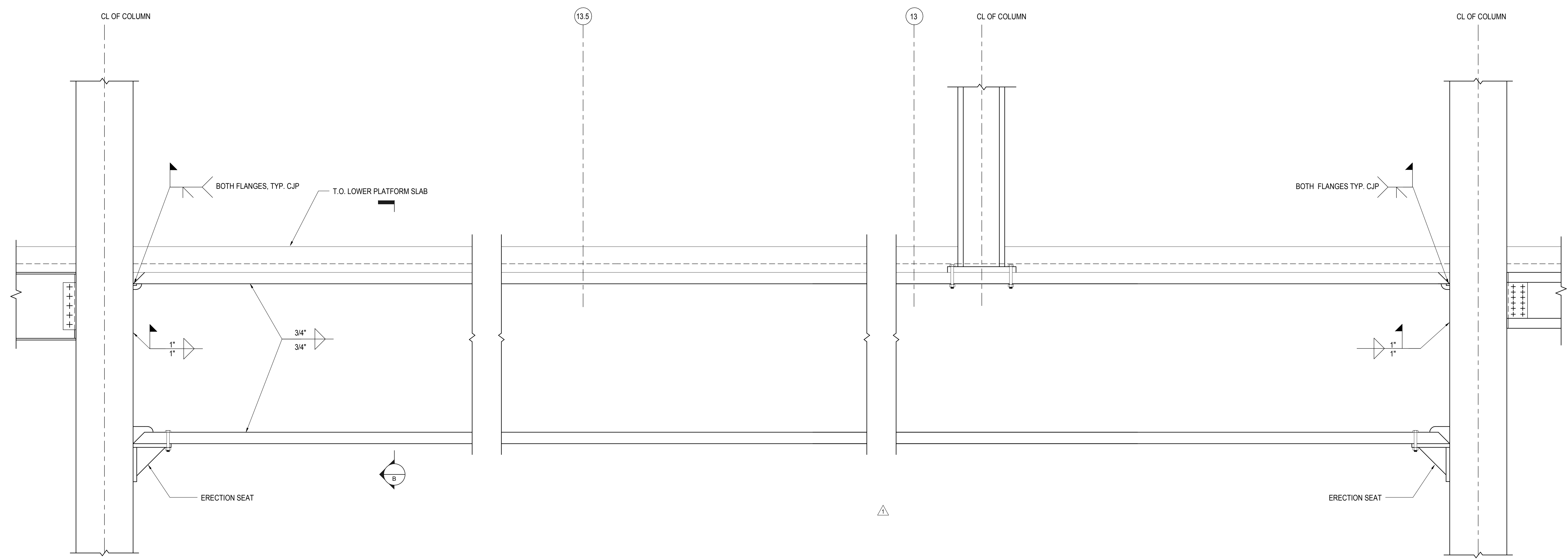
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

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LIRR Substation  
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New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



**1** TRANSFER GIRDER BETWEEN COLS G9 AND G8  
3/4\"/>



**2** TRANSFER GIRDER BETWEEN COLS H14 AND H12  
3/4\"/>

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
MdE - PLATFORM SUBMISSION	
Δ - D42 PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ - D40 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FRNS	3/29/2013
NYC Description	Other

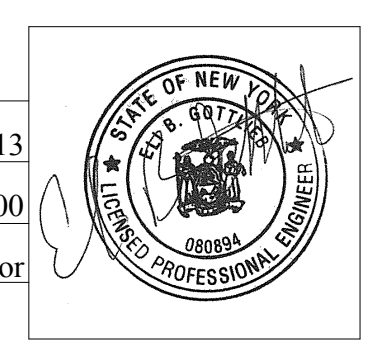
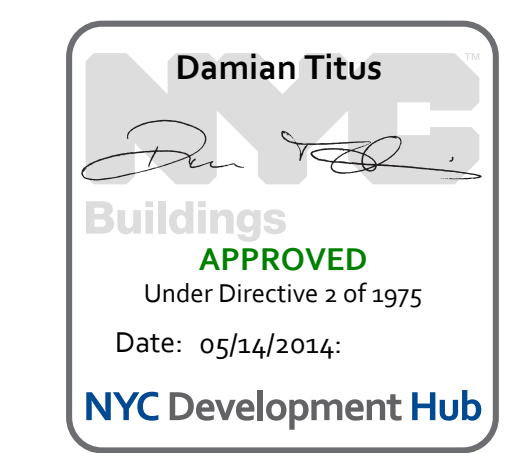
Rev. No.

1	08/09/2013	08/09/2013
2	N11330.00	08/09/2013
3	Author	08/09/2013
4		08/09/2013
5		08/09/2013

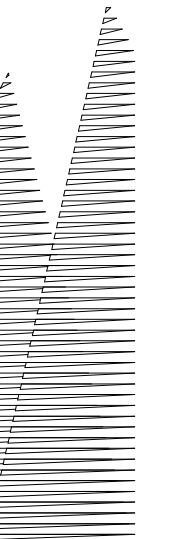
Date: 08/09/2013  
Project No: N11330.00  
Drawing Title: HYE-PL-S-611.00

**EAST PLATFORM  
PLATE GIRDER  
DETAILS**

Drawing Number / B/S/C/S Drawing Number  
**S-611.00**  
SHEET 159 OF 201







*Client*  
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60 Columbus Circle  
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*Construction Manager*  
Fishman Construction Corporation  
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New York, NY 10017  
Tel: 212.708.3600

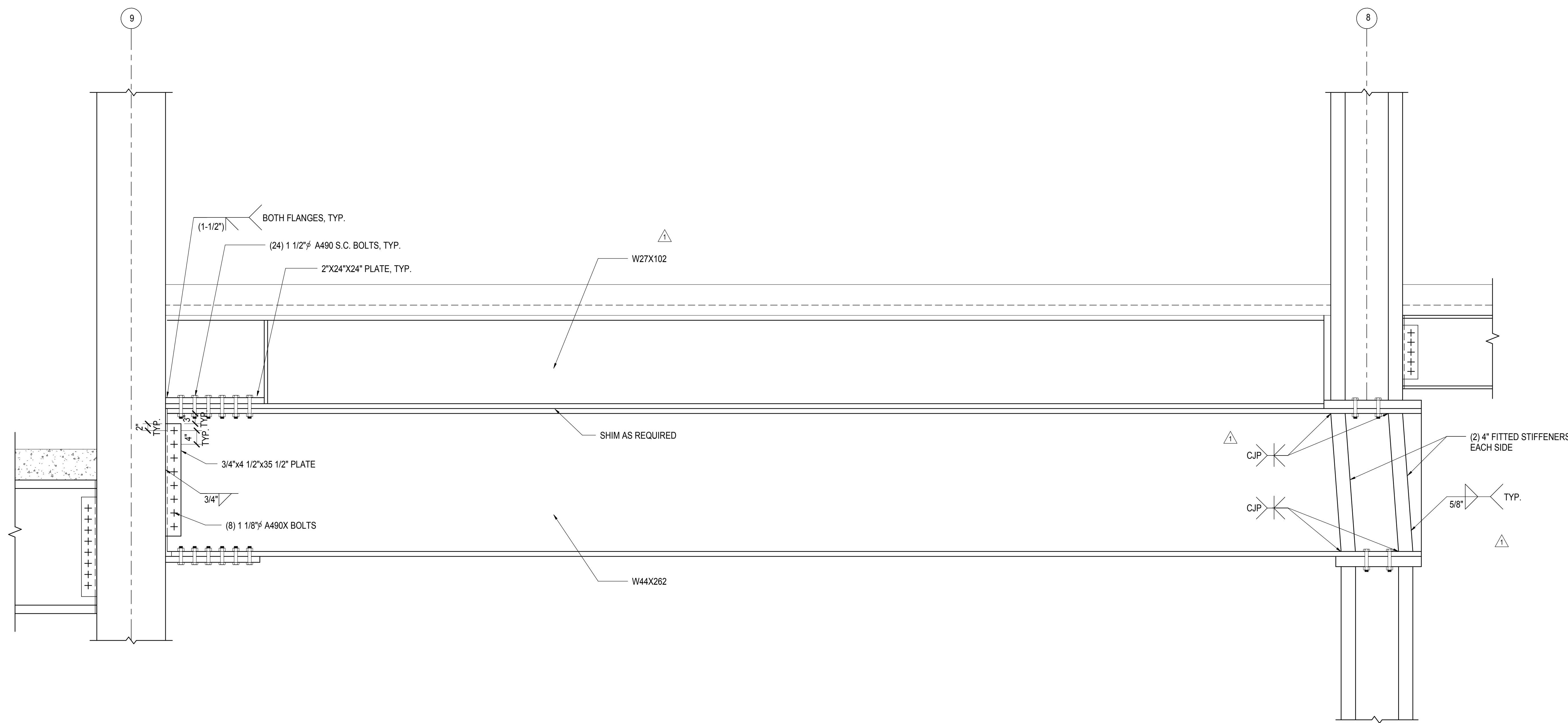
*Architect*  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
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Fire Alarm, Fire Protection, Security  
Personnel Transportation Group*  
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New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

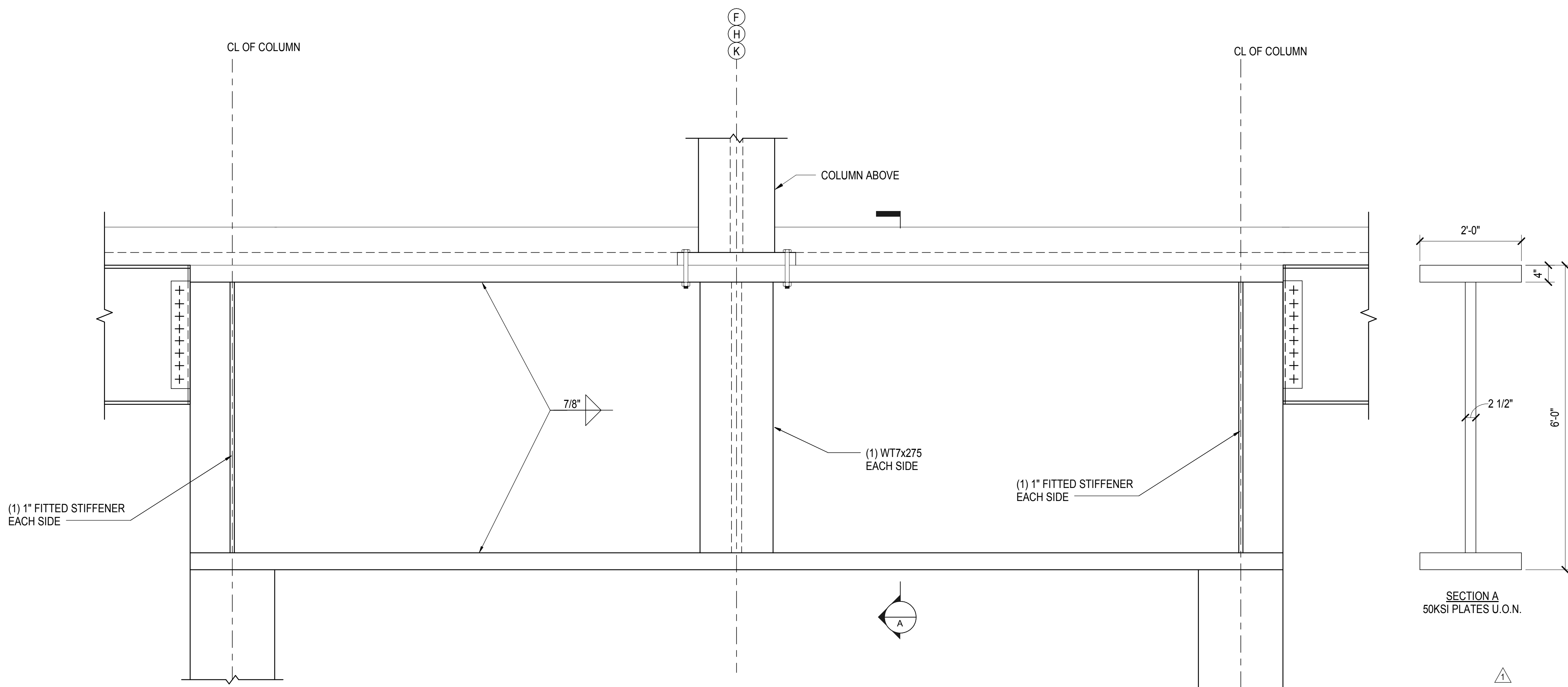
*LIRR Ventilation*  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

*LIRR Substation*  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



**1 TRANSFER GIRDER BETWEEN COLS H9 AND H8**

3/4" = 1'-0"

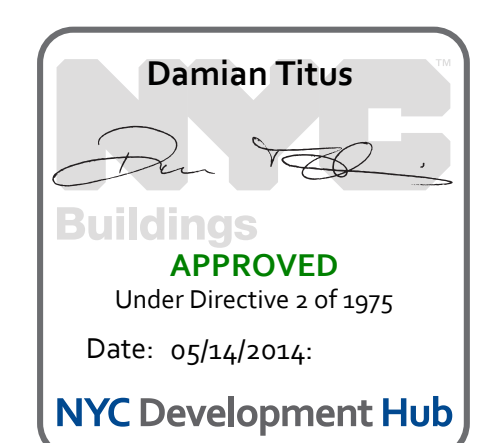


**2 TYPICAL TRANSFER GIRDER ALONG GRID 3**

3/4" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&E - PLATFORM SUBMISSION	
DE-02 PHASE 1 STRUCTURE UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
DE-01 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC Description	206

Key Plan



Date: 08/09/2013  
Project No: N11330.00  
Title: Author  
Sheet Number

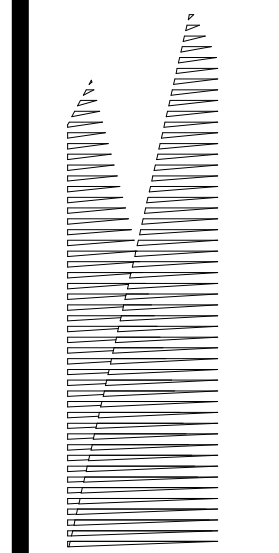
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**EAST PLATFORM**  
**PLATE GIRDER**  
**DETAILS**

Drawing Number / B/S/C/S Drawing Number  
**S-612.00**









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60 Columbus Circle  
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**Owner**  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
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**Construction Manager**  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

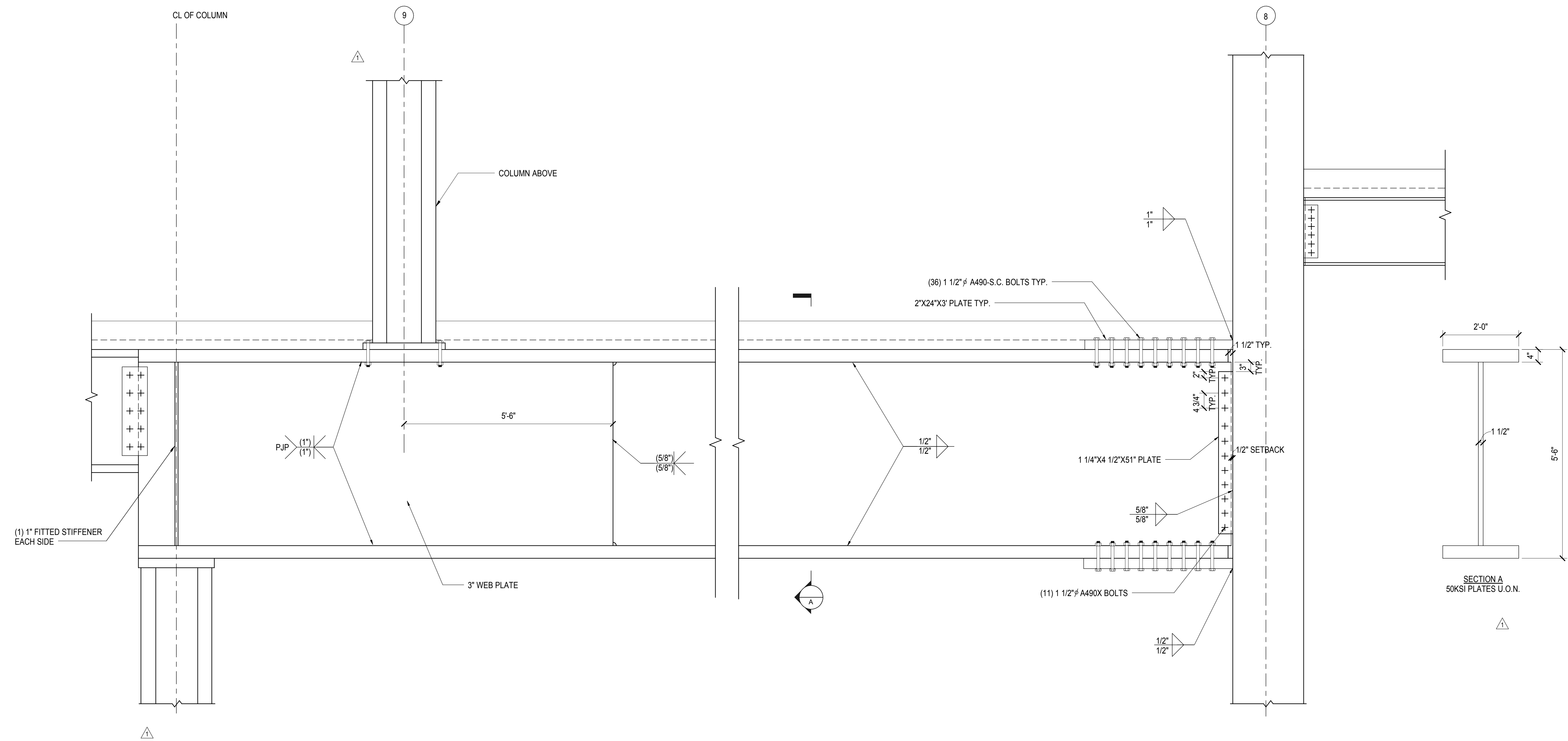
**Architect**  
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PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York, 10036  
Tel: 212.977.6500 Fax: 212.956.2526

**Structural Engineer**  
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51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

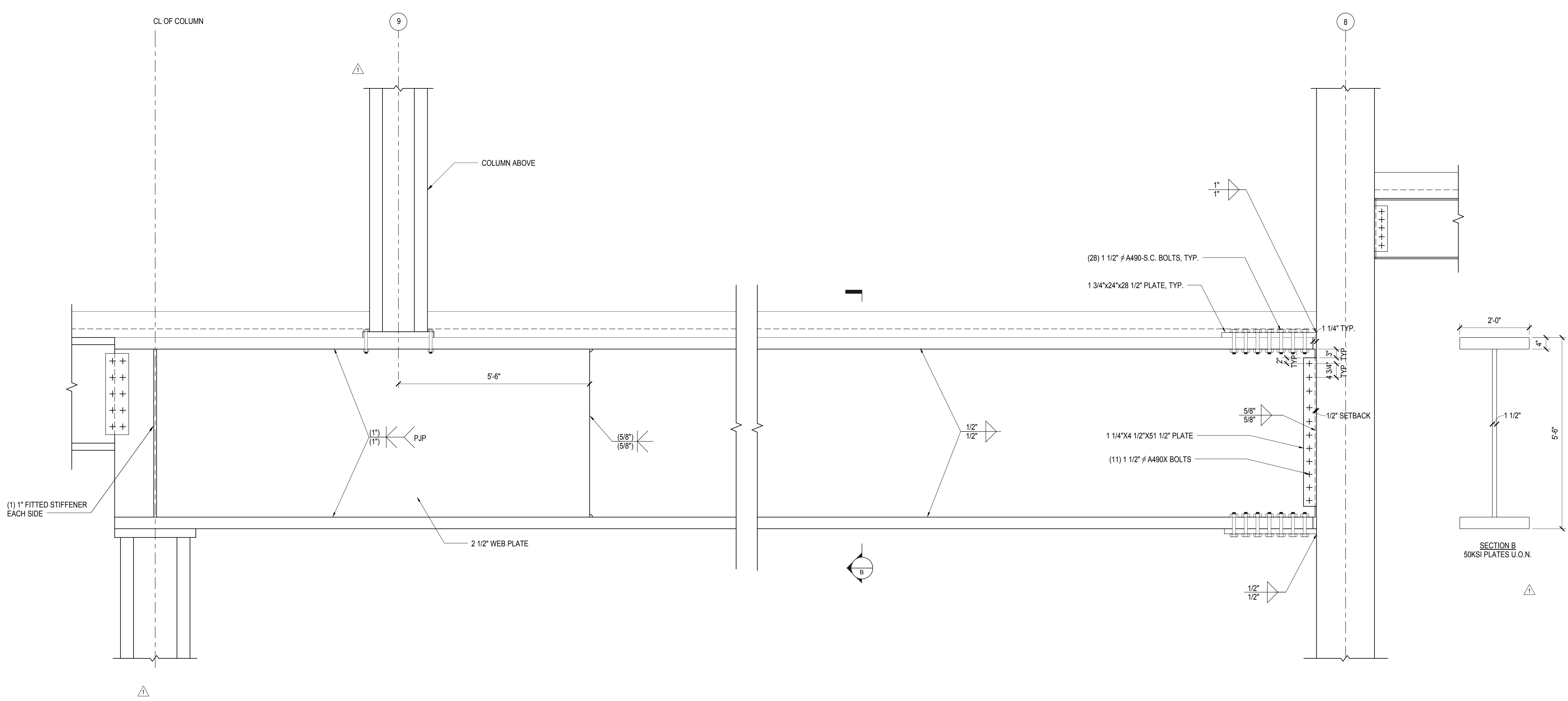
**Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group**  
100 Broadway  
New York, NY 10005  
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AECOM  
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New York, NY 10158  
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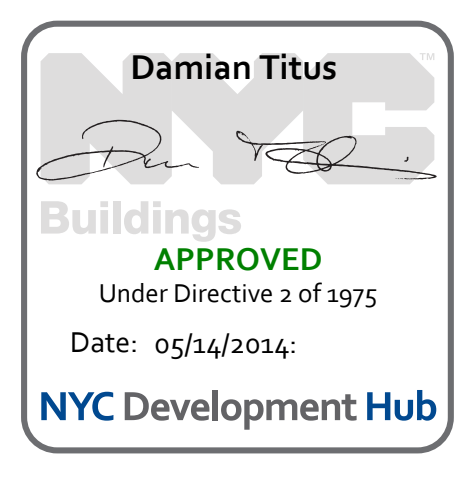
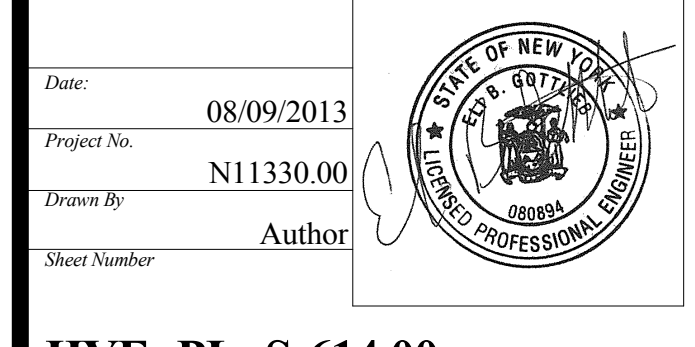
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3/4" = 1'-0"



**2** TRANSFER GIRDER BETWEEN COLS L9 AND L8  
3/4" = 1'-0"

NYC DOB FILING	12/4/2013
L.I.R. - PRE-FINAL 100%	11/22/2013
M&E - PLATFORM SUBMISSION	
DE-2 PHASE 1 STRUCTURAL UPDATE	11/17/2013
NYC DOB FILING	10/4/2013
DE-1 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NY Description	206

Author	08/09/2013
Project No.	N11330.00
Drawn By	Auth
Sheet Number	



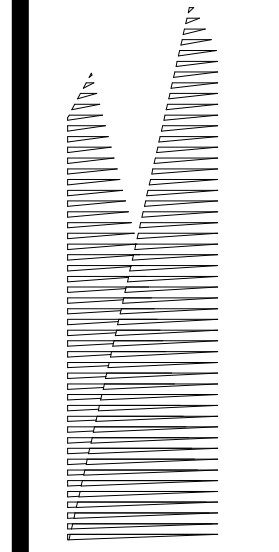
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**EAST PLATFORM  
PLATE GIRDER  
DETAILS**

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11/22/2013 4:13:31 PM  
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*Client*  
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60 Columbus Circle  
New York, NY 10023  
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*Overland Properties Group*  
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Tel: 212.708.3600

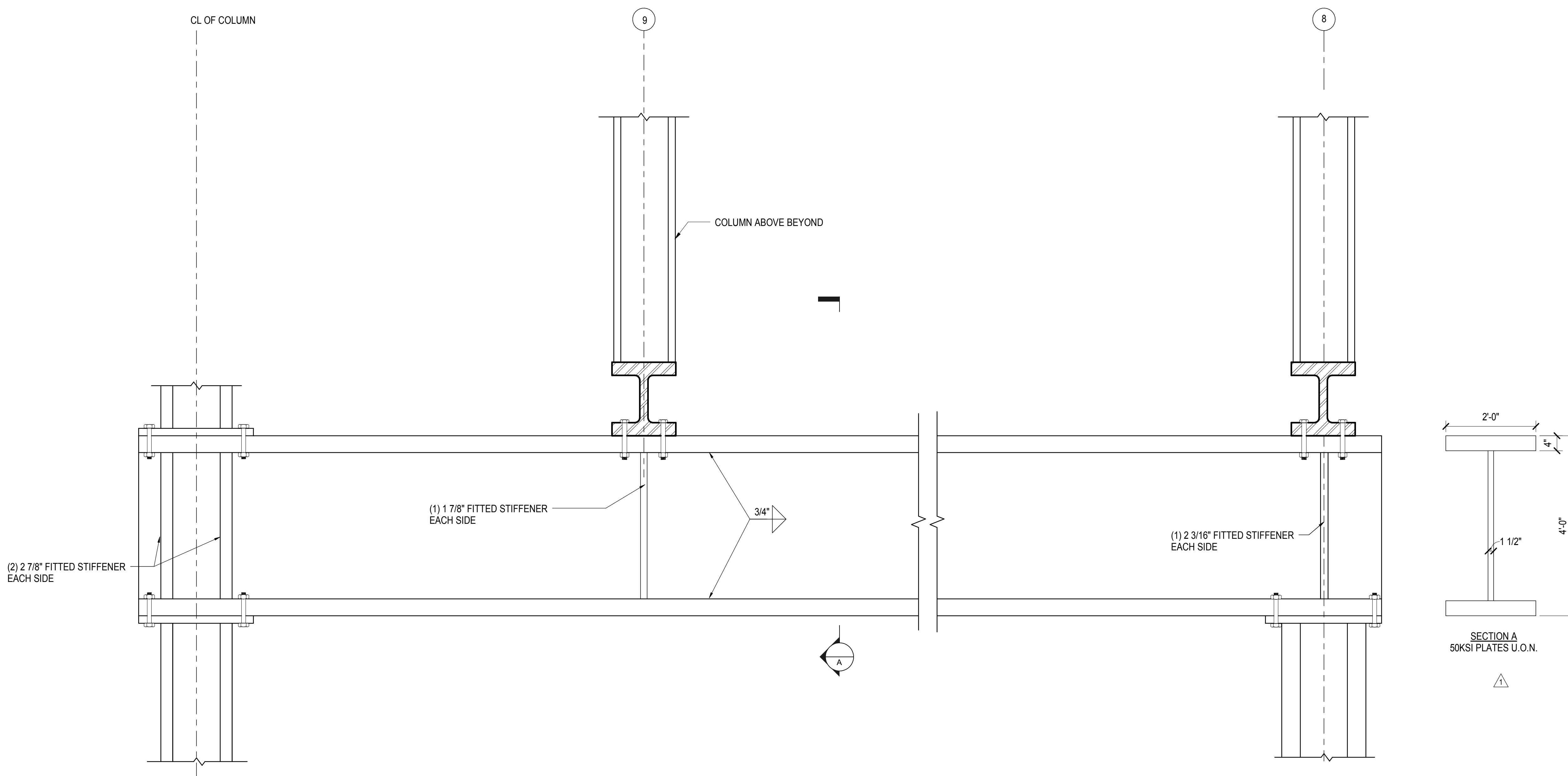
*Architect*  
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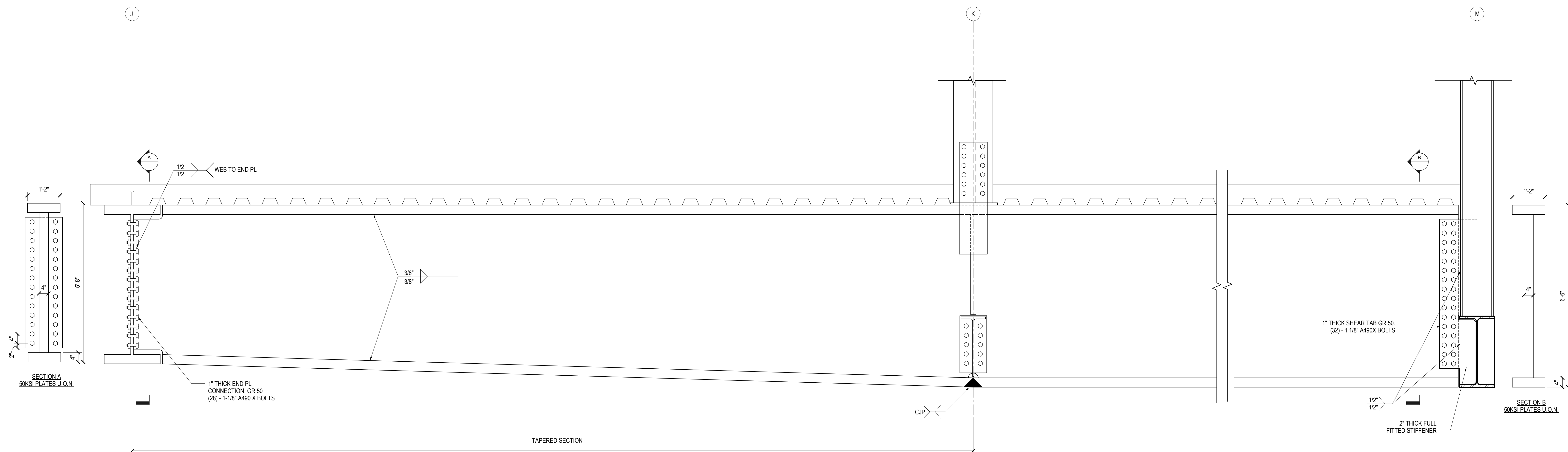
*Civil, Mechanical, Electrical, Plumbing,  
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Personnel Transportation Group*  
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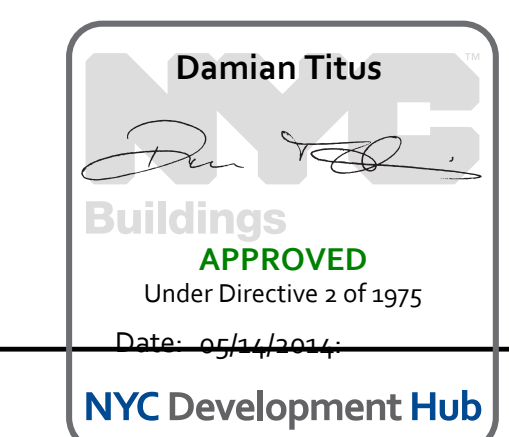
**1** TRANSFER GIRDER BETWEEN COLS N9 AND N8  
3/4" = 1'-0"



**2** PLATE GIRDER BETWEEN J/14 TO M/14  
3/4" = 1'-0"

NYC DOB FILING	12/4/2013
LIRR - PRE-FINAL 100%	11/22/2013
M&E - PLATFORM SUBMISSION	
DI-02 PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
DI-01 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC Description	206

Key Plan

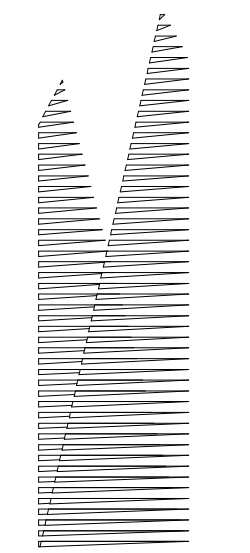


Date: 08/09/2013  
Project No: N11330.00  
Drawing No: Author  
Sheet Number

**HYE-PL-S-616.00**  
**EAST PLATFORM  
PLATE GIRDER  
DETAILS**

Drawing Number / B/S/C/S/N Drawing Number  
**S-616.00**





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New York, NY 10158  
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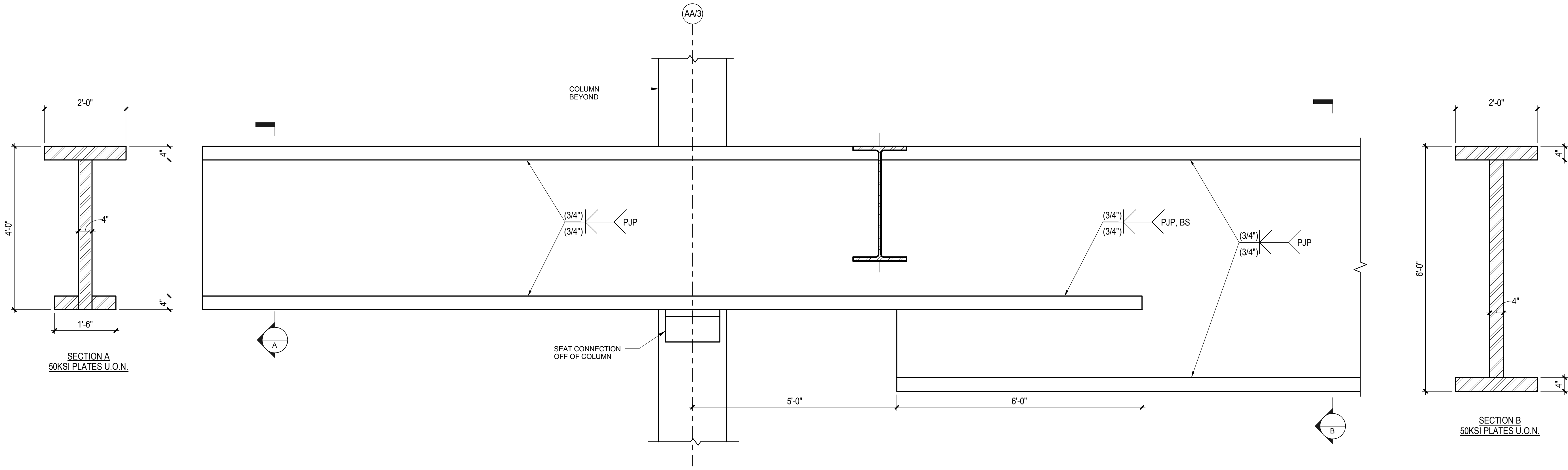
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L.I.R.R. - PRE-FINAL 100%	11/22/2013
MdE - PLATFORM SUBMISSION	
A. D-02 PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
A. D-01 PHASE 1 STRUCTURE UPDATE	9/20/2013
NYC DOB FILING	9/20/2013

Rev. Plot

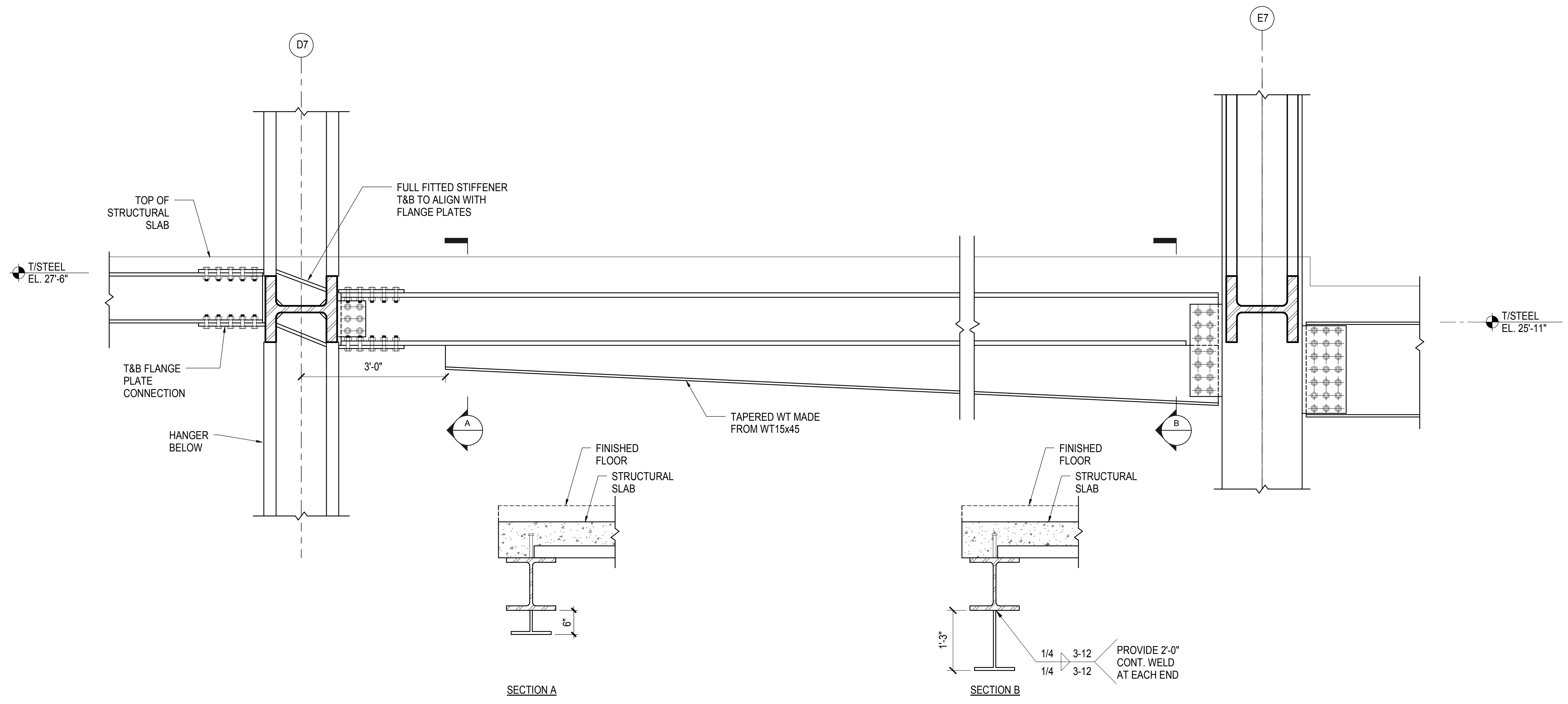
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Drawing No: Author  
Sheet Number

**HYE-PL-S-617.00**  
**EAST PLATFORM  
PLATE GIRDER  
DETAILS**

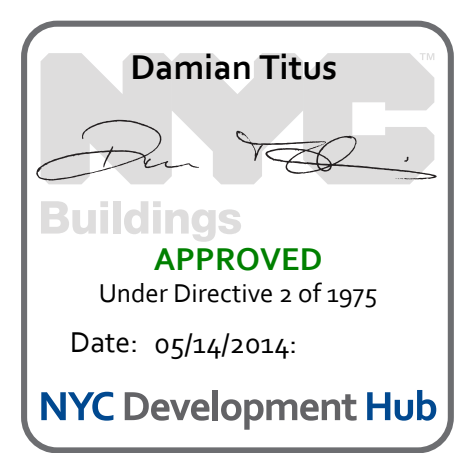
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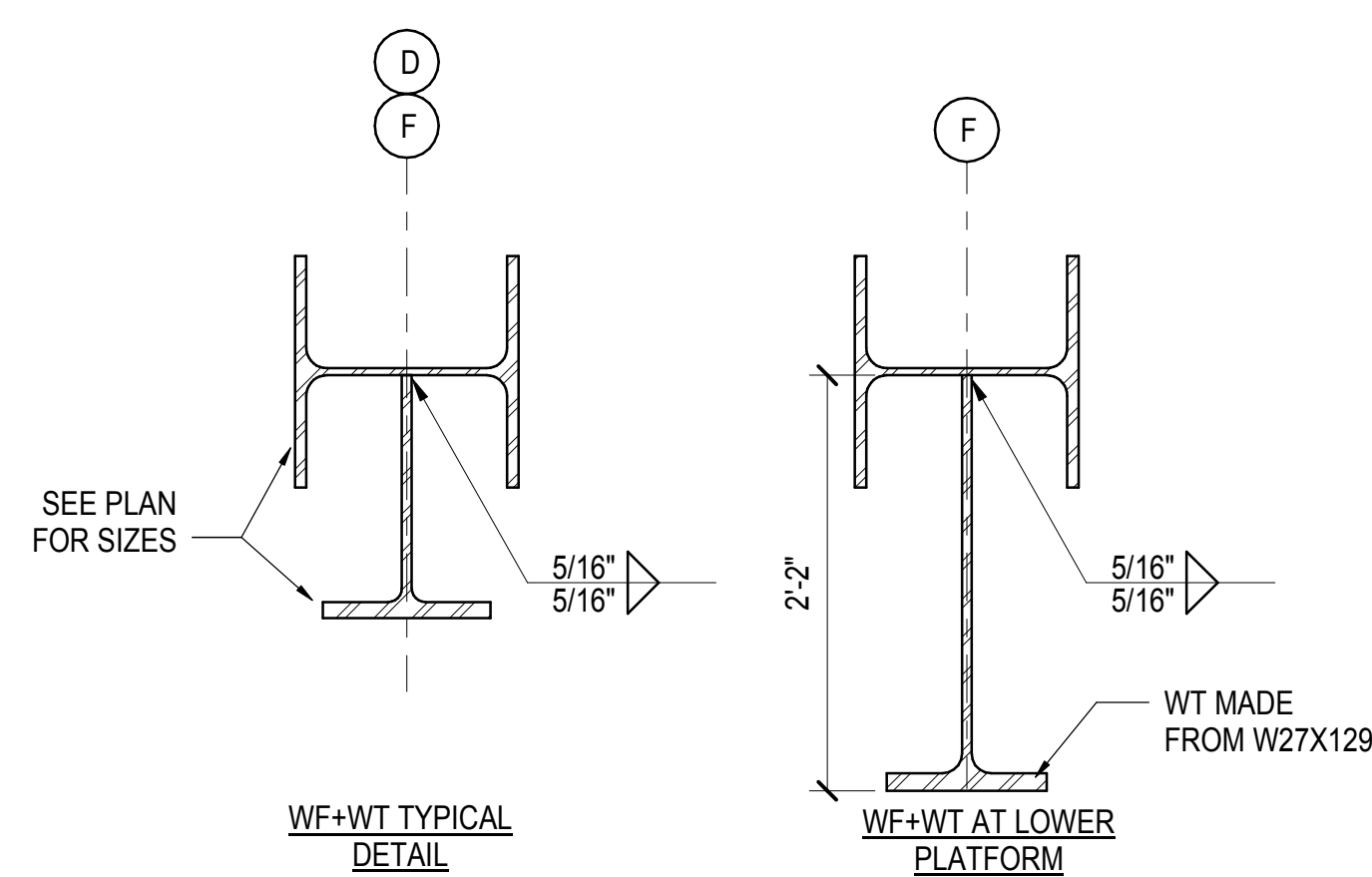
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3/4" = 1'-0"



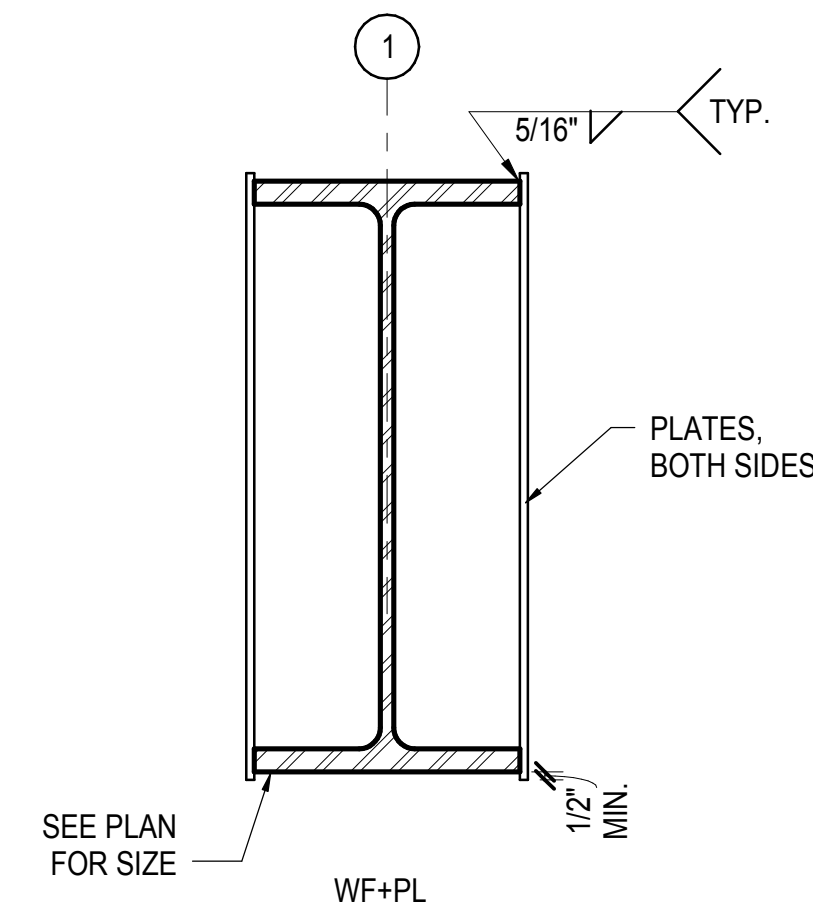
**2** GIRDER ON GRID 7 BETWEEN D AND E  
3/4" = 1'-0"







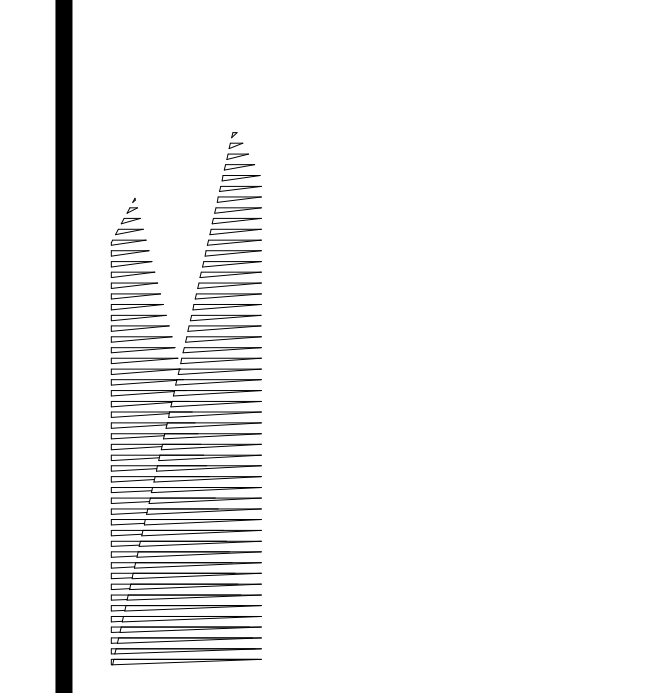
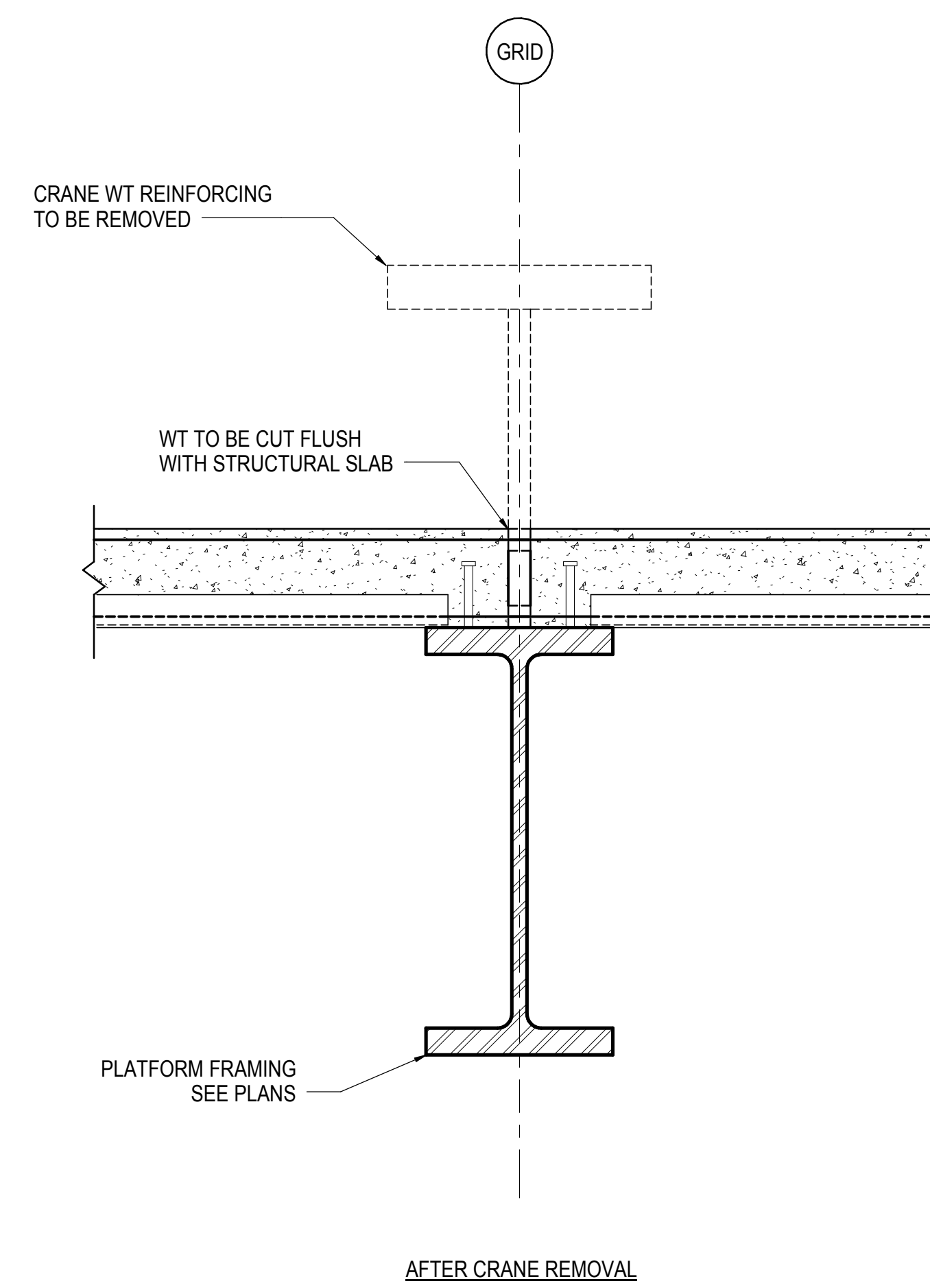
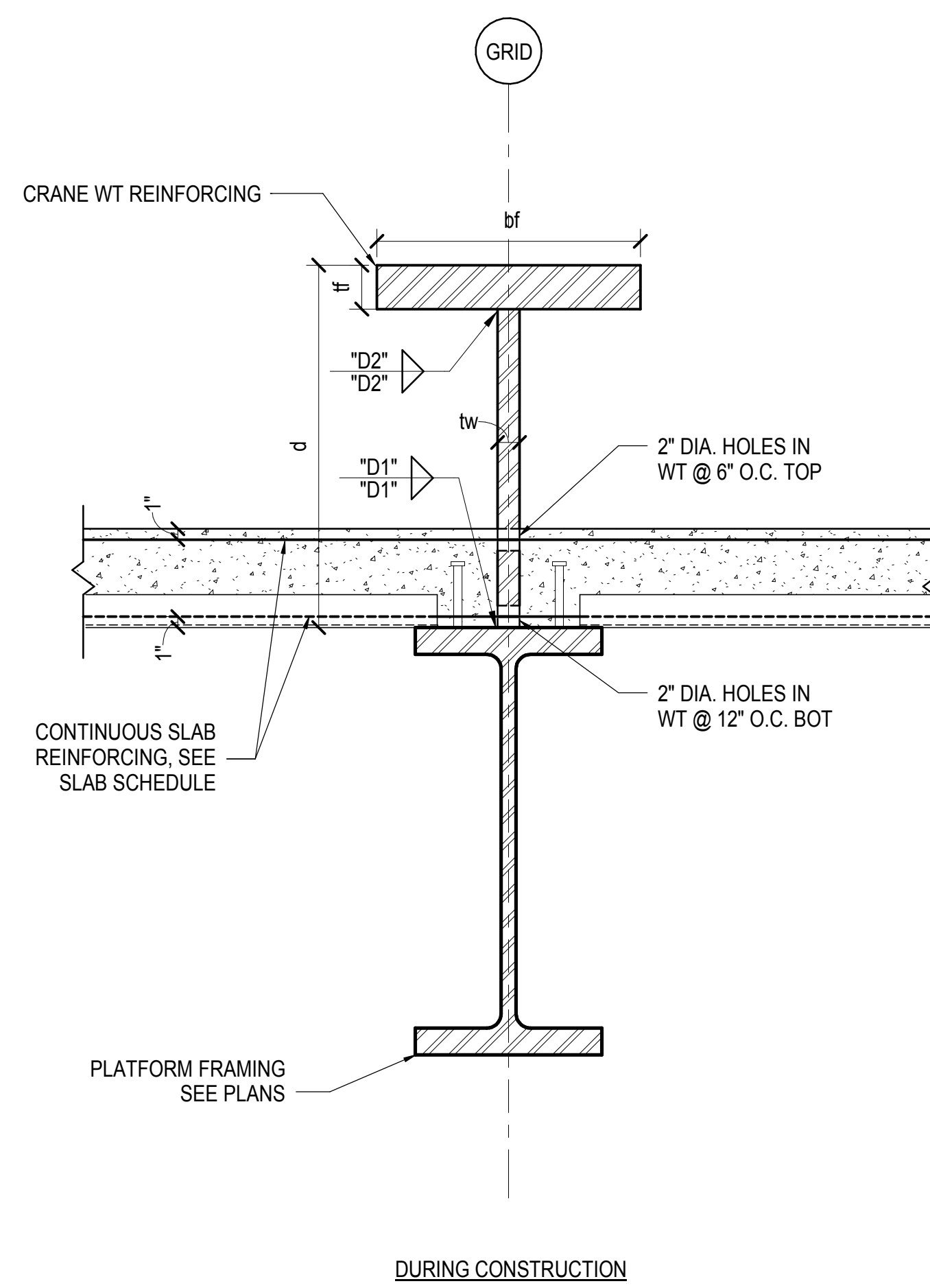
**1 WF+WT DETAIL BETWEEN TRUSSES**  
1" = 1'-0"



**2 WF+PL DETAIL AT GRID 1**  
1" = 1'-0"

CRANE WT REINFORCING						
WT REINFORCING	d	bf	tf	tw	Fy	D1 D2
WT33-1	2'-9"	2'-0"	1.5"	1.25"	50	5/8" 5/16"
WT33-2	2'-9"	2'-0"	1.5"	1.5"	50	5/8" 3/8"
WT33-3	2'-9"	2'-0"	2.5"	1.25"	50	5/8" 1/2"
WT33-4	2'-9"	2'-0"	2.5"	2"	50	3/4" 1/2"
WT33-6	2'-9"	2'-0"	4"	3"	65	5/8" 1/2"

**3 CRANE WT REINFORCING**  
1" = 1'-0"



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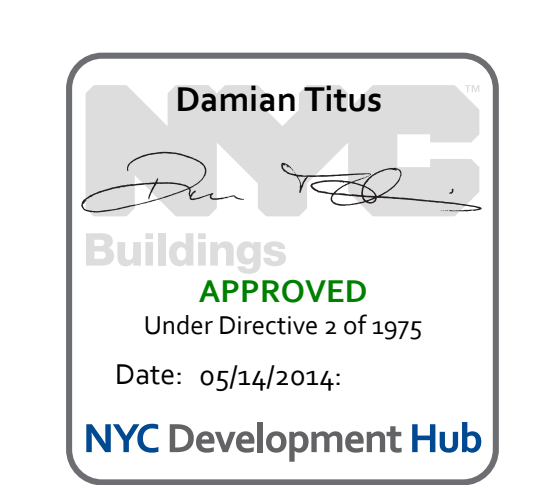
*Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security*  
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NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
MdE - PL PLATFORM SUBMISSION	
A. D-02 PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
A. D-01 PHASE I STRUCTURE UPDATE	9/20/2013
Rev	Description

Rev. Plot



Date: 09/20/13  
Project No: N11330.00  
Title: Author  
Sheet Number

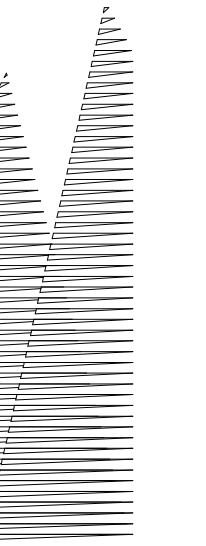
**HYE - PL -S-620.00**  
Drawing Title  
**STEEL DETAILS**

Drawing Number / B/S/C/S Drawing Number  
**S-620.00**









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Thornton Tomasetti, Inc.  
51 Madison Avenue  
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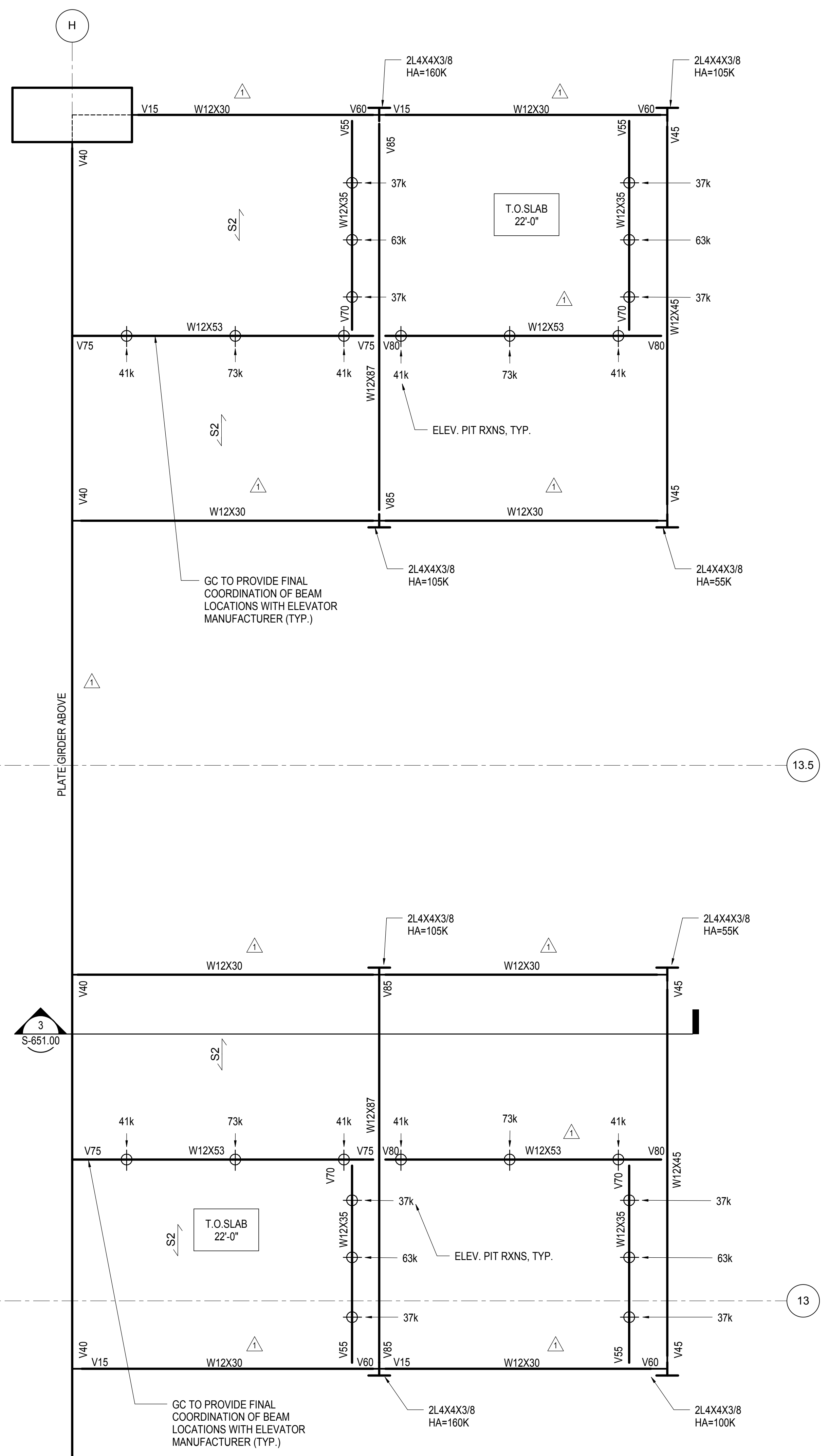
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

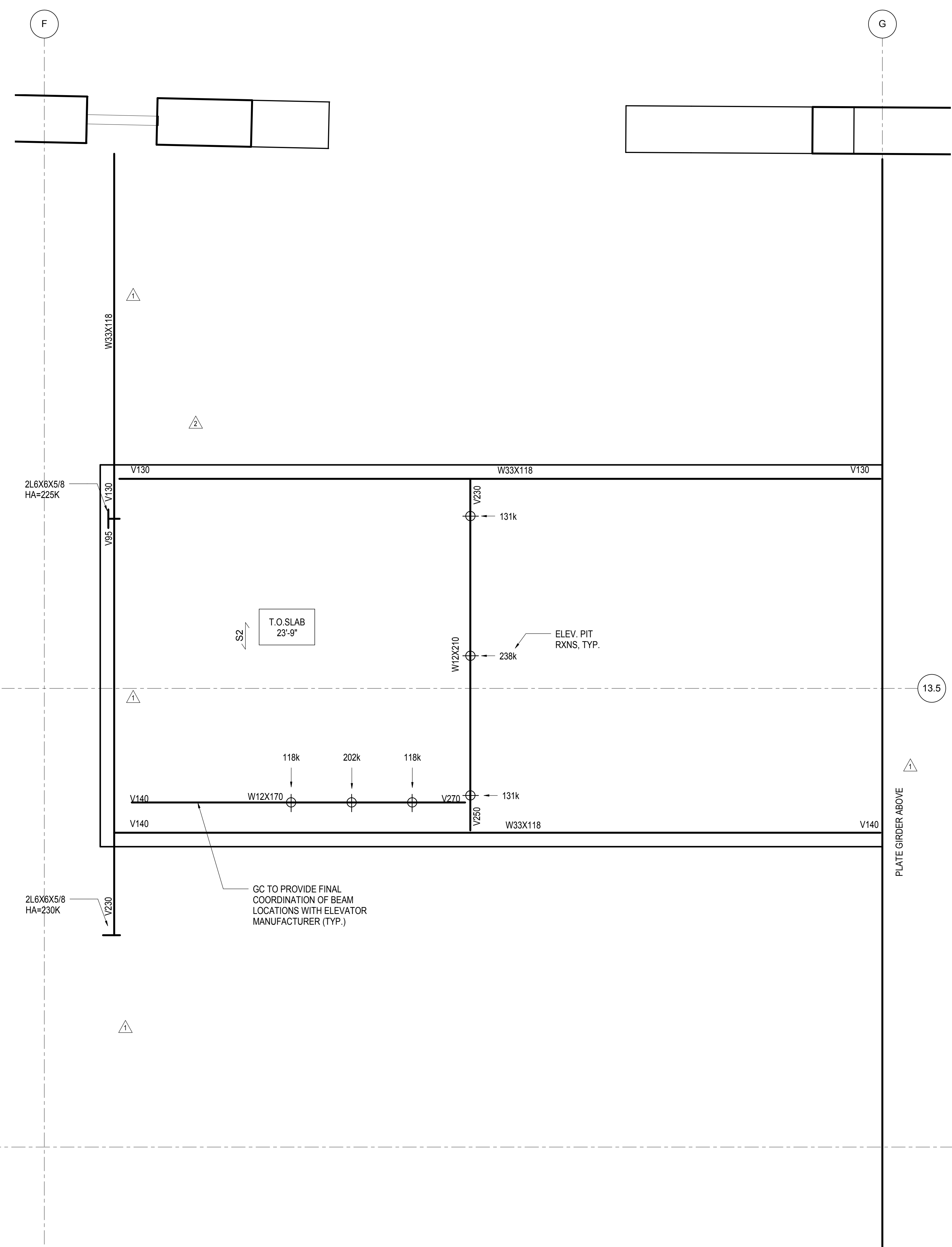
LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
MoE - PLATFORM SUBMISSION	
DR-02 PHASE 1 STRUCTURAL UPDATE	11/17/2013
NYC DOB FILING	10/4/2013
DR-01 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
MoE	08/

See Plan

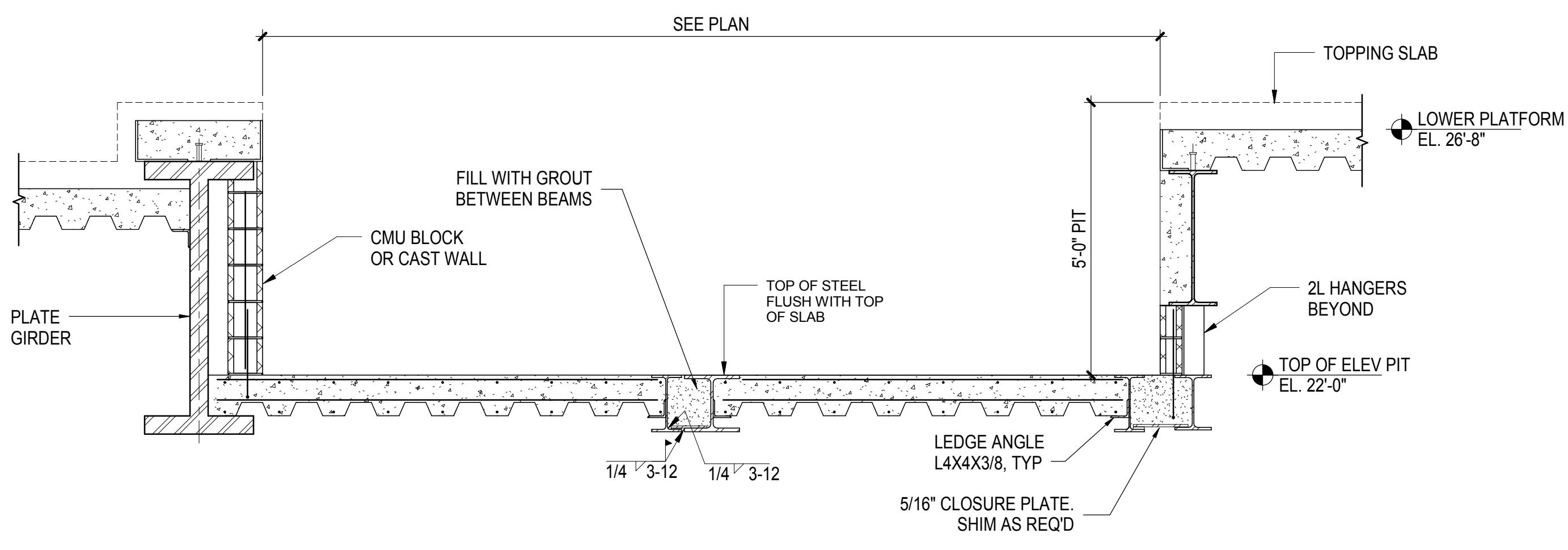


**1 ELEVATOR PIT S-1 PART PLAN**  
1/2" = 1'-0"

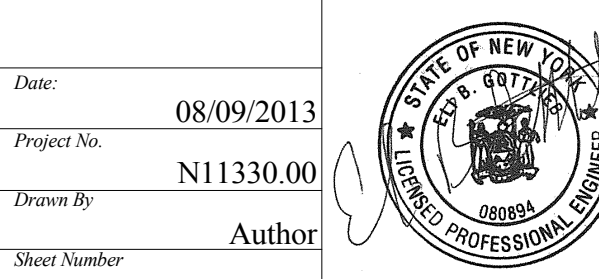
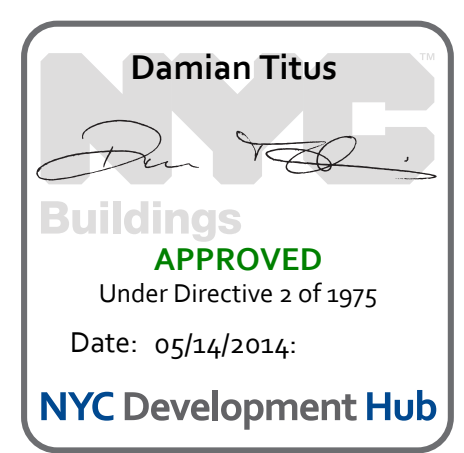


**2 FREIGHT ELEVATOR PIT PART PLAN**  
1/2" = 1'-0"

NOTE: TOP OF STEEL AT TOP OF SLAB.

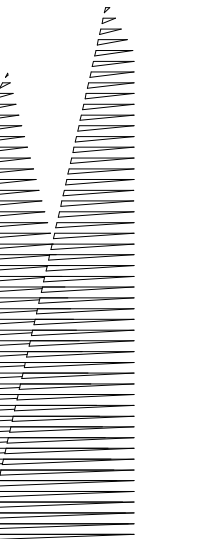


**3 SECTION AT ELEVATOR S-1**  
1/2" = 1'-0"



**HYE - PL - S-651.00**  
**ELEVATOR PIT SECTIONS & DETAILS**





*Client*  
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NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&E - PLATFORM SUBMISSION	
DE-02 PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
DE-01 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC Description	204

Fig. Plan

Date: 08/09/2013

Project No: N11330.00

Drawn By: Authr

Sheet Number:

**HYE-PL-S-652.00**

Drawing Title:

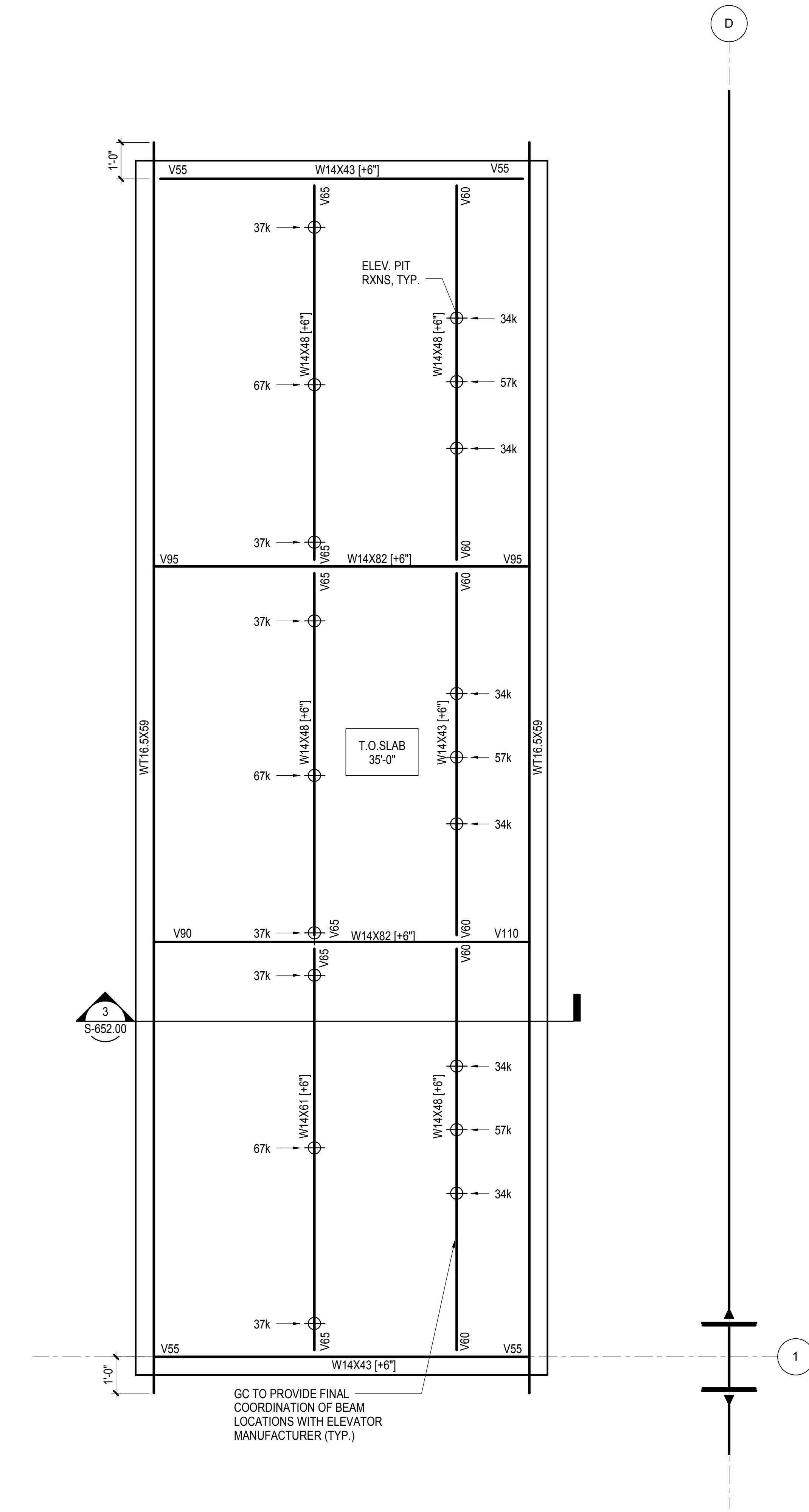
**ELEVATOR PIT SECTIONS & DETAILS**

Drawing Number / B/S/C/S Drawing Number

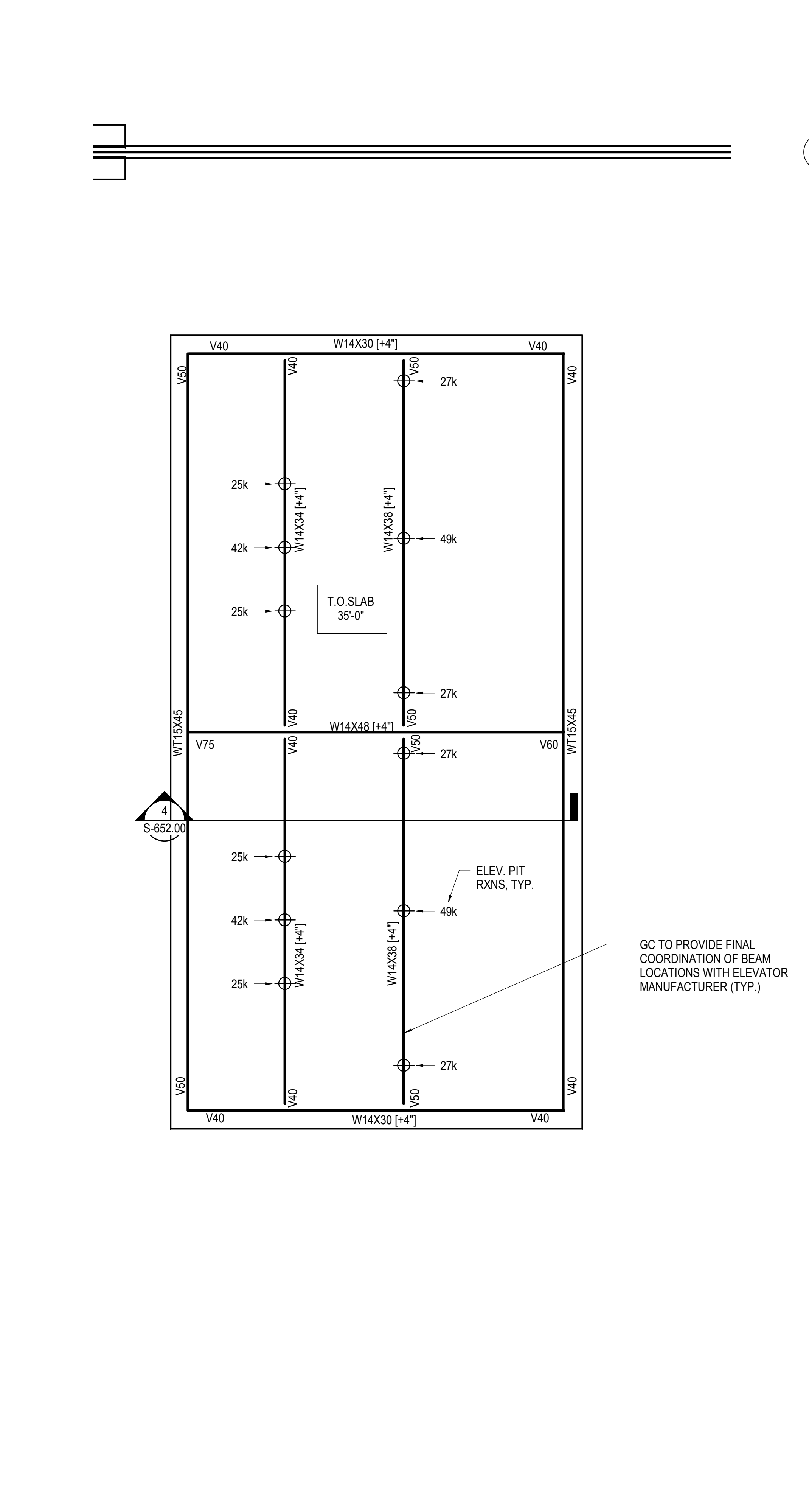
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SHEET 169 OF 201

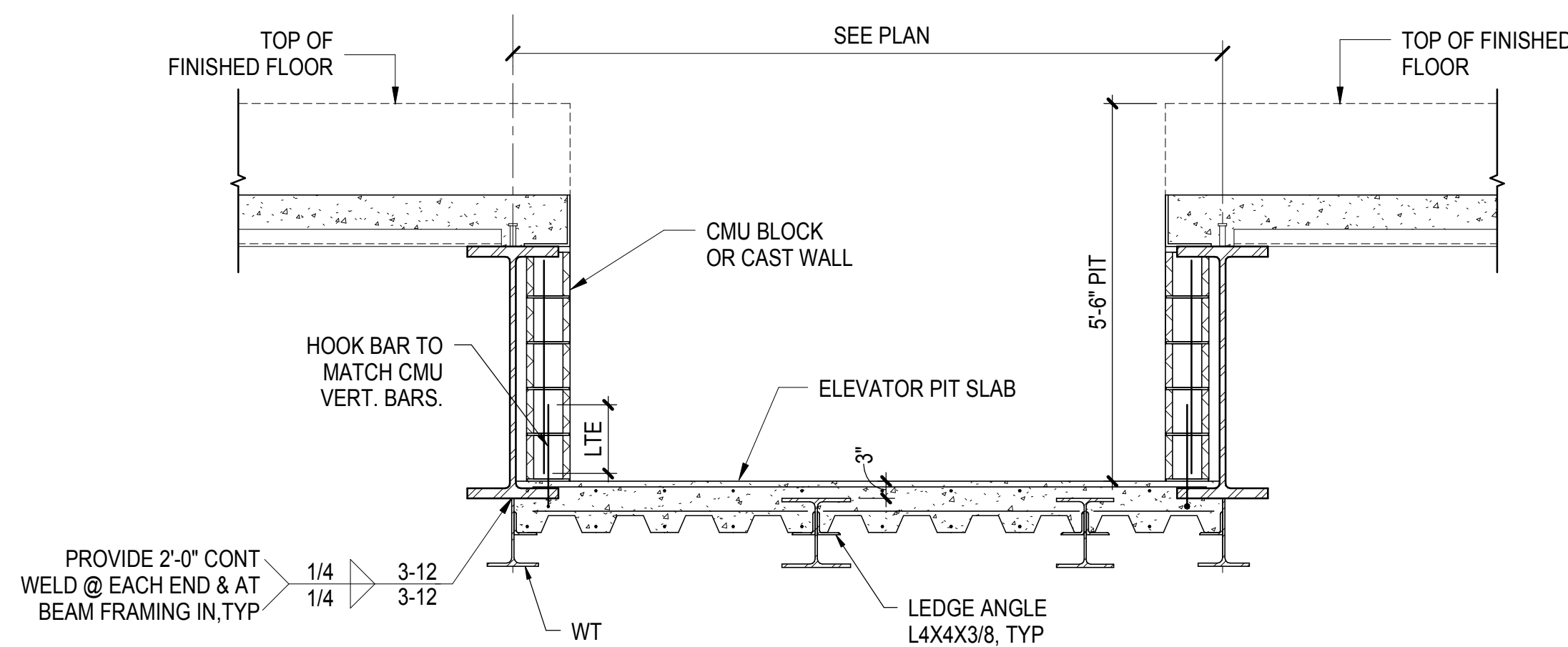
© 2012 KOHN PEDERSEN FOX ASSOCIATES PC. All rights reserved.



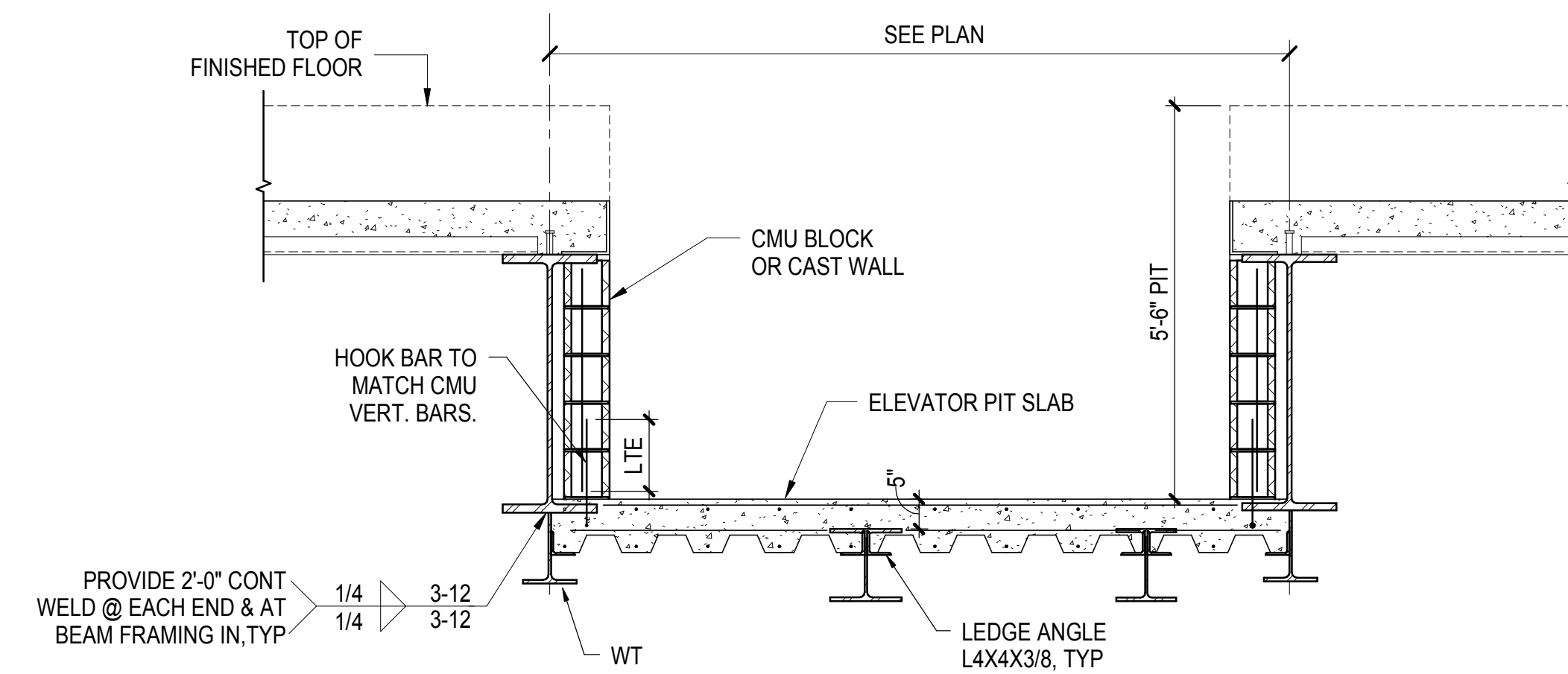
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1/2" = 1'-0"



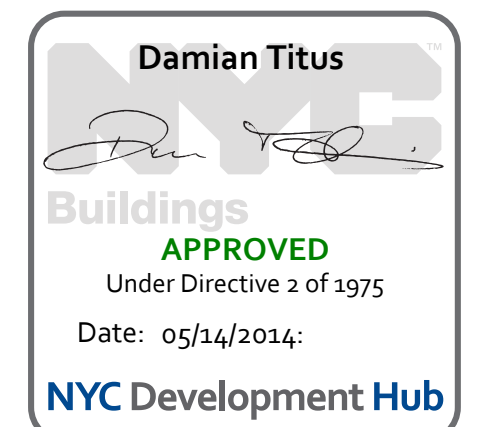
**2 ELEVATOR PIT BETWEEN GRID 1-3/AA-A**  
1/2" = 1'-0"



**3 SECTION AT ELEVATOR PIT BETWEEN GRID 1-3/C-D**  
1/2" = 1'-0"



**4 ELEVATOR PIT BETWEEN GRID 1-3/AA-A**  
1/2" = 1'-0"

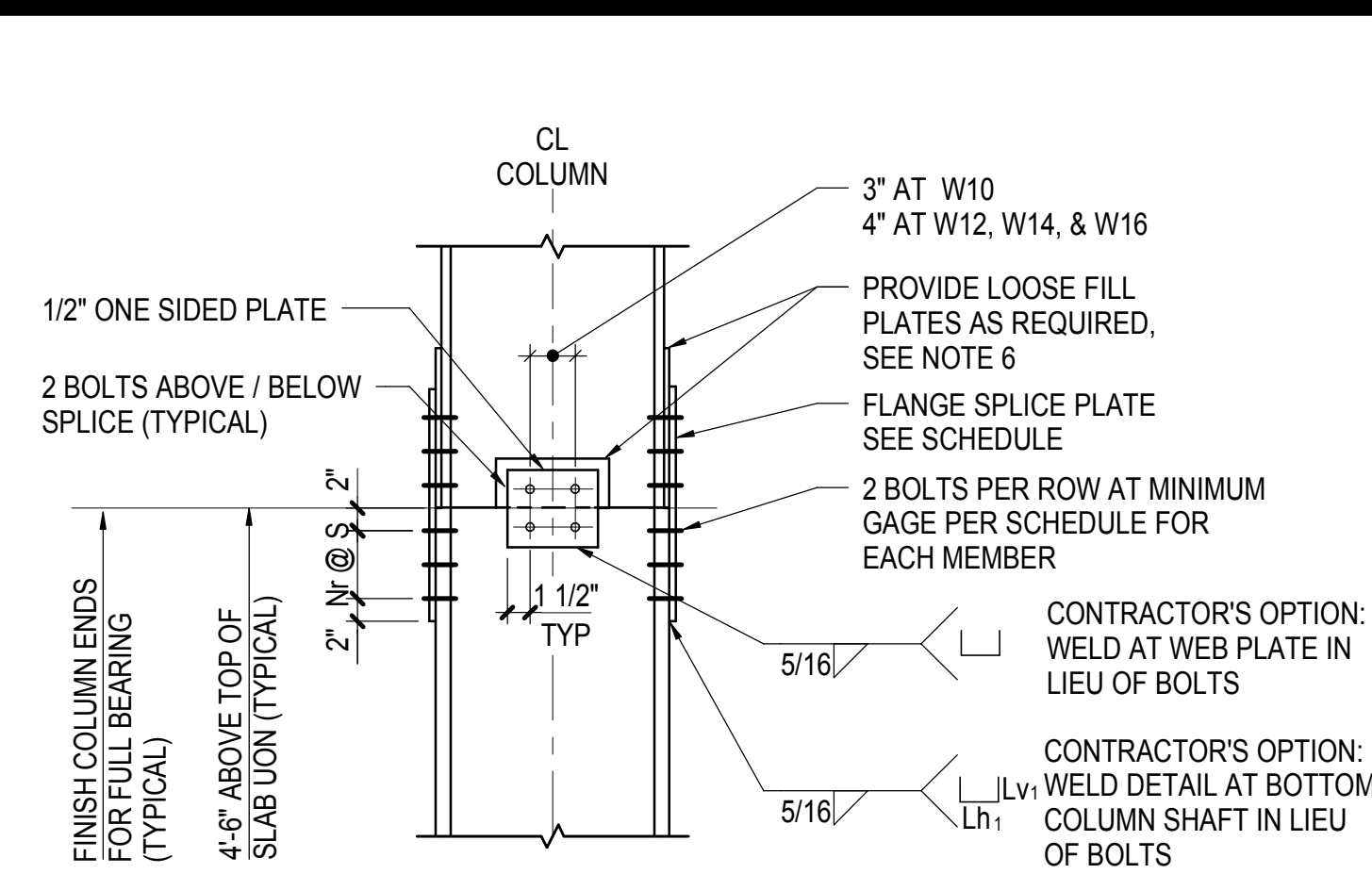






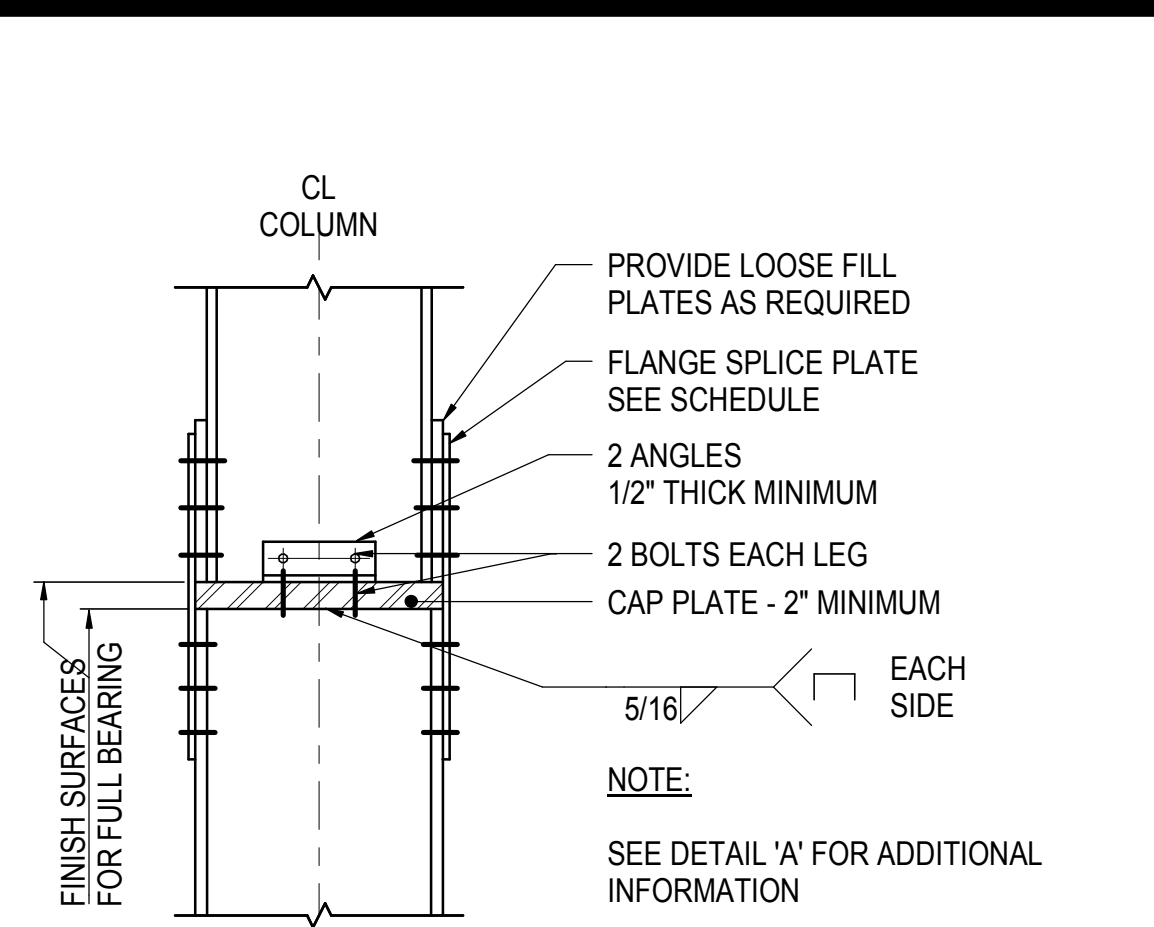


- NOTES:**
- ALL PLATES SHALL BE ASTM A572 GRADE 50 MINIMUM
  - ALL BOLTS SHALL BE ASTM A325 MINIMUM PRE-TENSIONED IN STANDARD HOLES
  - LIFTING LUGS AND ERECTION AIDS ARE THE RESPONSIBILITY OF THE CONTRACTOR
  - THE CONTRACTOR MAY CHOOSE A BOLT DIAMETER BETWEEN 3/4" DIAMETER MINIMUM, 1" DIAMETER MAXIMUM
  - FAYING SURFACES SHALL MEET MINIMUM SCA REQUIREMENTS
  - 3/4" MAXIMUM LOOSE FILL PLATE EACH FLANGE WHERE THICKER PLATES ARE REQUIRED, USE 7/8" DIAMETER SLIP CRITICAL BOLTS MINIMUM
  - 3"-3" FOR BOLTS 1" DIAMETER OR LESS
  - THIS CONNECTION IS MINIMUM FOR FINAL DESIGN STRUCTURAL REQUIREMENTS. THE CONTRACTOR SHALL VERIFY CAPACITY FOR TEMPORARY CONDITIONS.
  - FOR NOMINAL SIZE DIFFERENCES > 2", SEE DETAIL SXXX
  - FOR BOLTED SPLICES, SELECT FLANGE SPLICE PLATE WIDTH, THICKNESS, AND GAGE BASED ON THE UPPER COLUMN, TYP. IF GAGE IS LARGER AT LOWER COLUMN, INCREASE PLATE WIDTH TO SUIT LOWER COLUMN.
  - AT THE CONTRACTOR'S OPTION, FLANGE AND WEB SPLICE PLATES MAY BE WELDED TO THE LOWER COLUMN AS SHOWN, WHERE TABULATED FLANGE SPLICE PLATE WIDTHS DO NOT ALLOW FOR WELD, INCREASE FLANGE SPLICE PLATE WIDTH TO MATCH COLUMN FLANGE PLUS 1".

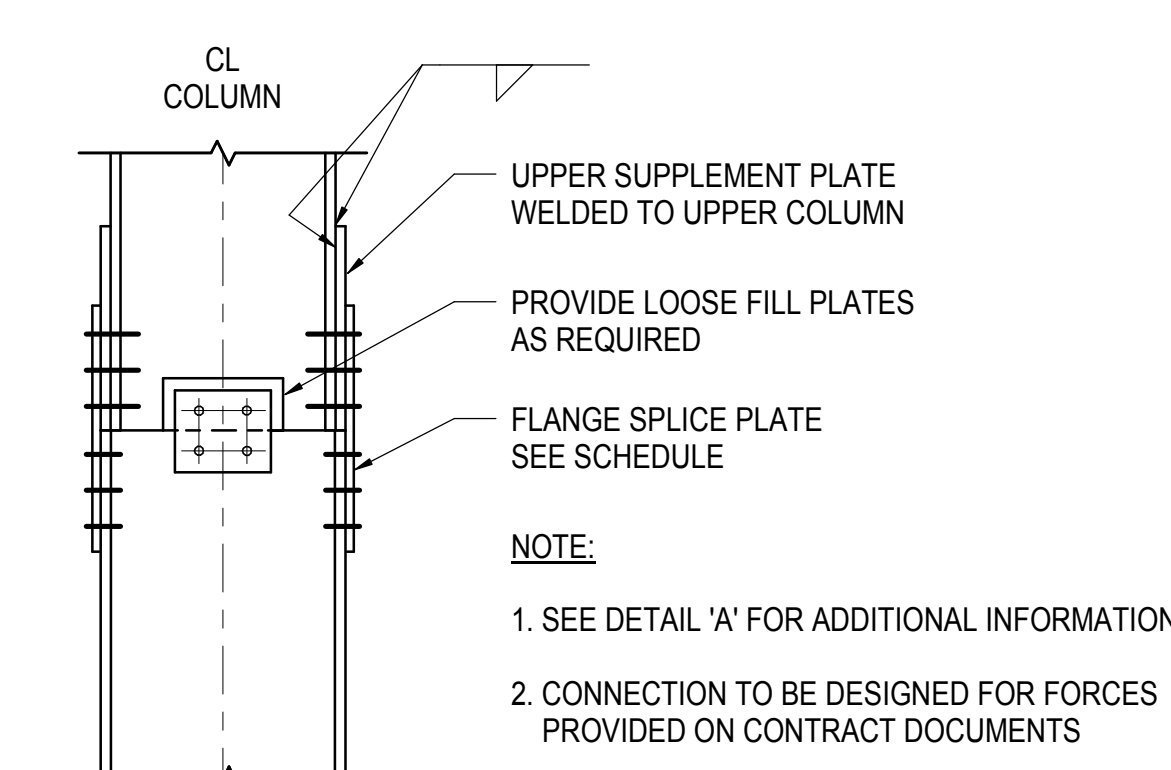


**A UPPER COLUMN OF SAME NOMINAL SIZE**

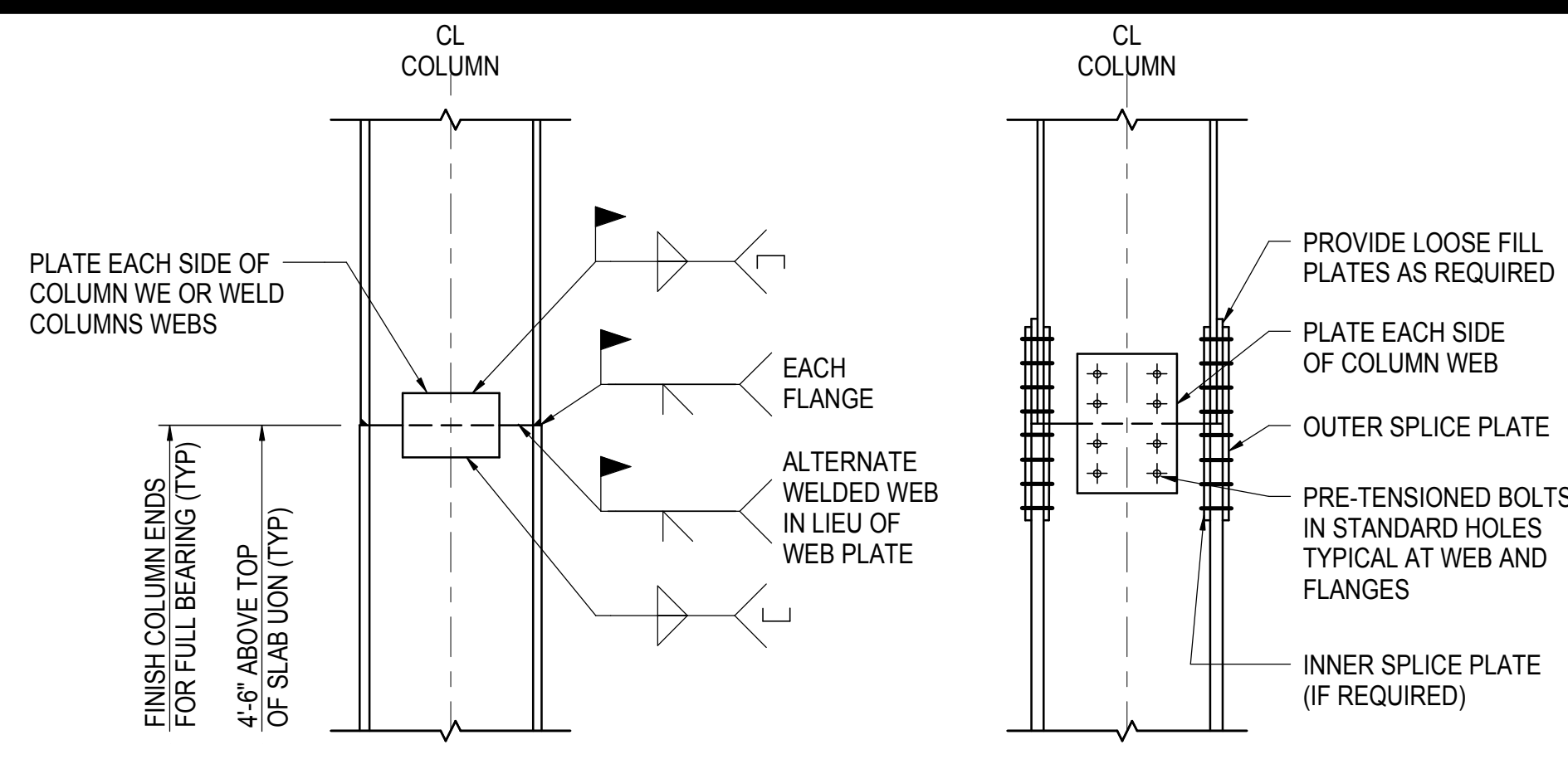
UPPER COLUMN SIZE	BOLT NO OF BOLT ROWS N <sub>r</sub>	FLANGE SPLICE PLATE			ALT WELD	
		WIDTH	THICKNESS	MIN GAGE	MIN L <sub>h</sub>	MIN L <sub>v</sub>
W14 X 455 TO 730	3	16"	3/4"	13 1/2"	6	8
W14 X 257 TO 428	3	14"	5/8"	11 1/2"	6	8
W14 X 145 TO 233	3	14"	1/2"	11 1/2"	6	8
W14 X 90 TO 132	2	14"	3/8"	11 1/2"	6	5
W14 X 43 TO 82	2	8"	3/8"	5 1/2"	6	5
W12 X 120 TO 336	3	8"	5/8"	5 1/2"	6	8
W12 X 40 TO 106	2	8"	3/8"	5 1/2"	6	5
W10 X 33 TO 112	2	8"	3/8"	5 1/2"	6	5
W8 X 31 TO 67	2	8"	3/8"	5 1/2"	6	5
W8 X 24 TO 28	2	8"	3/8"	3 1/2"	4	5



**B UPPER COLUMN 2\"/>**



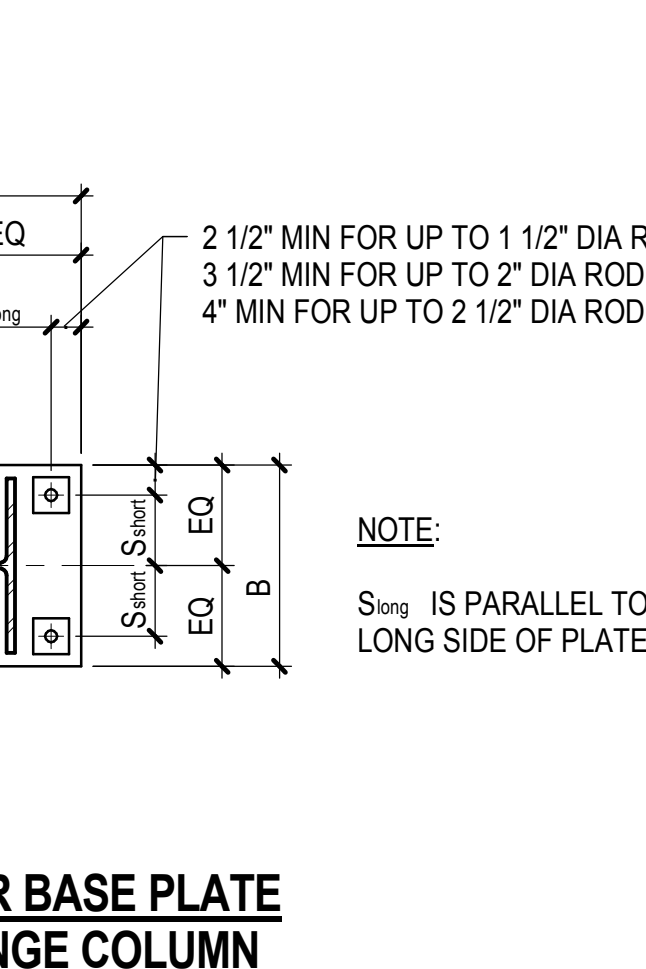
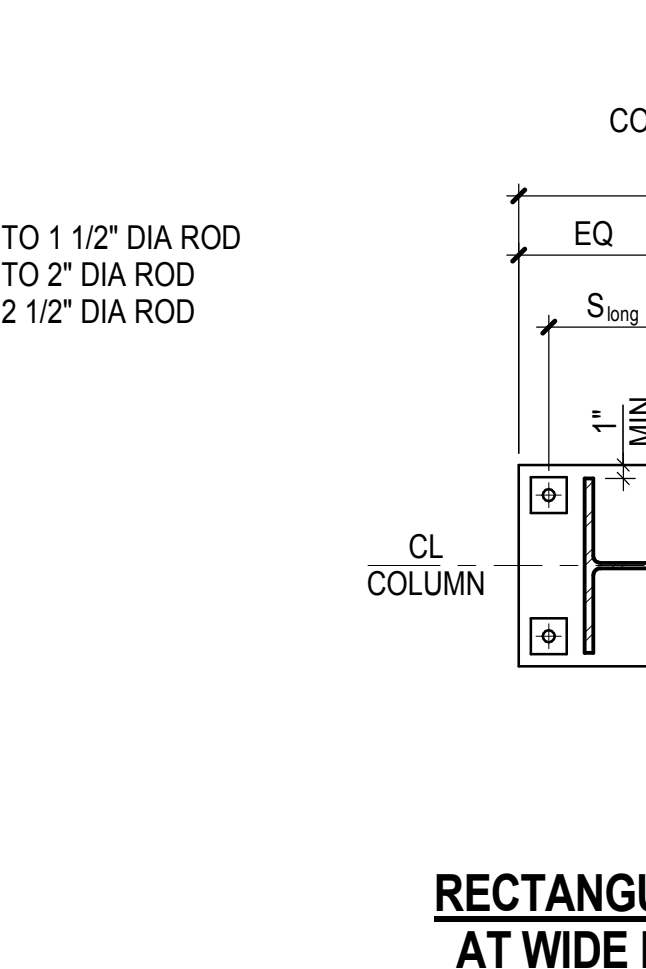
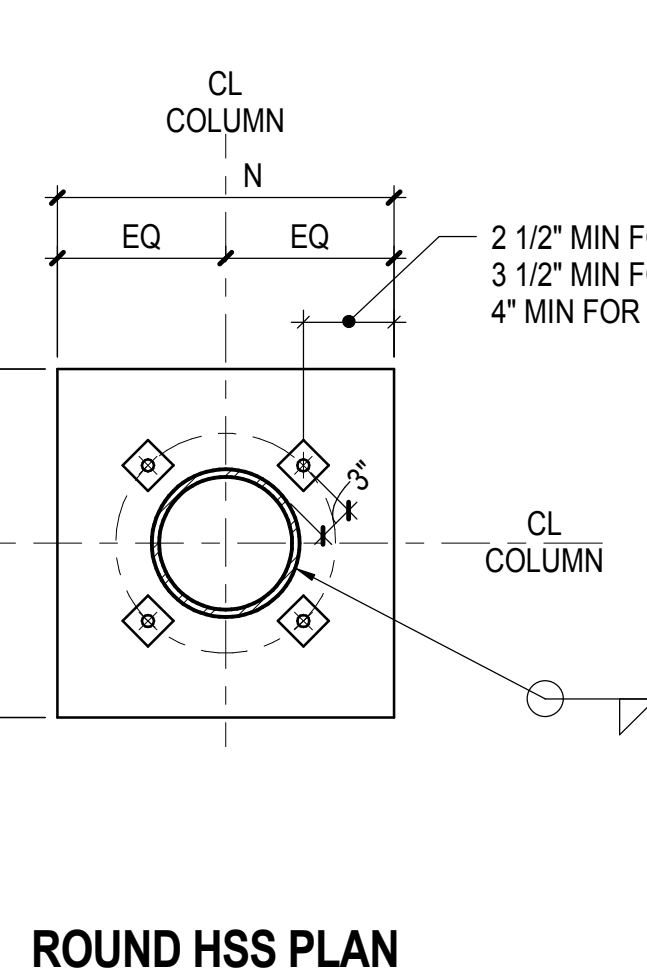
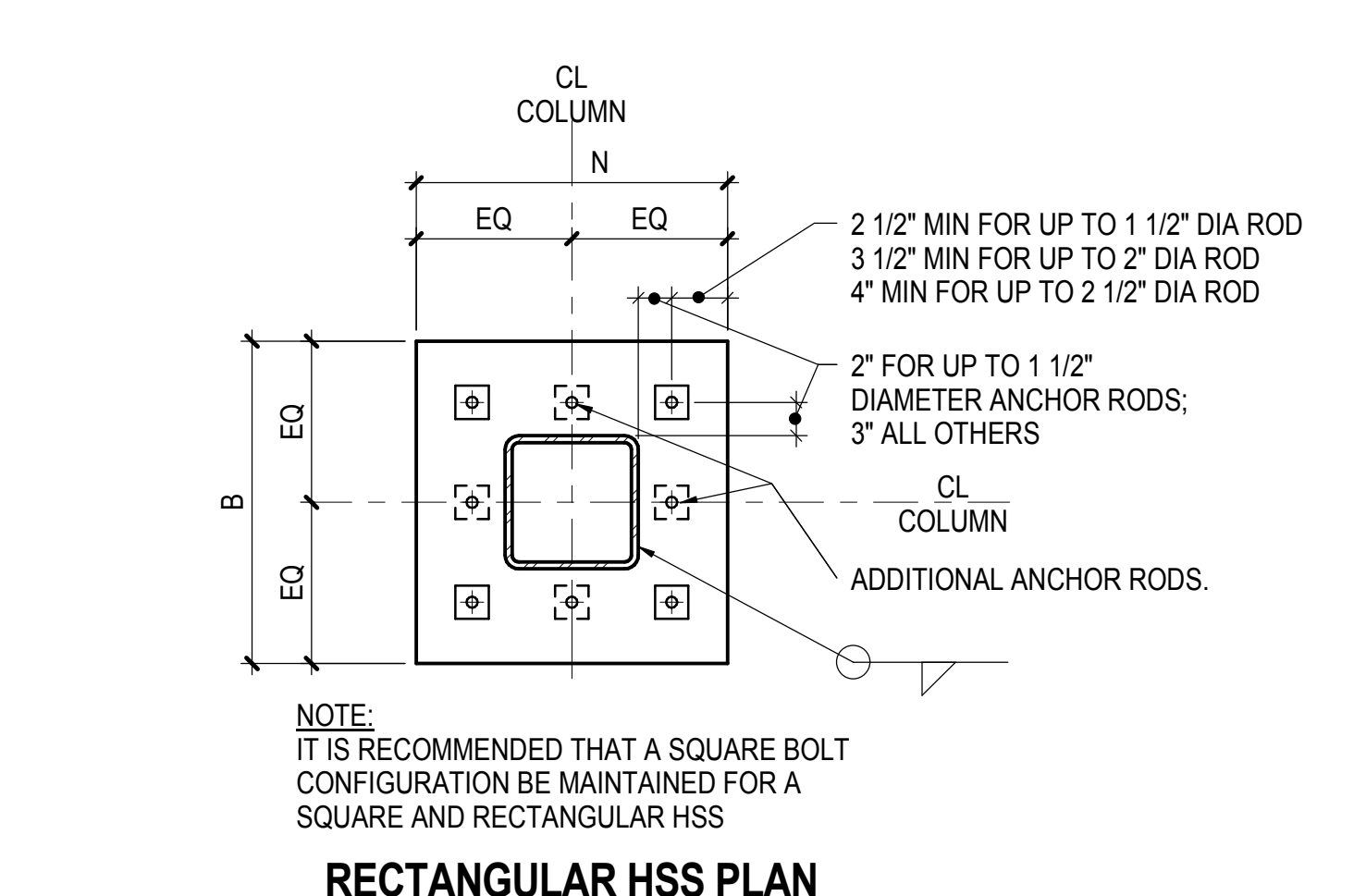
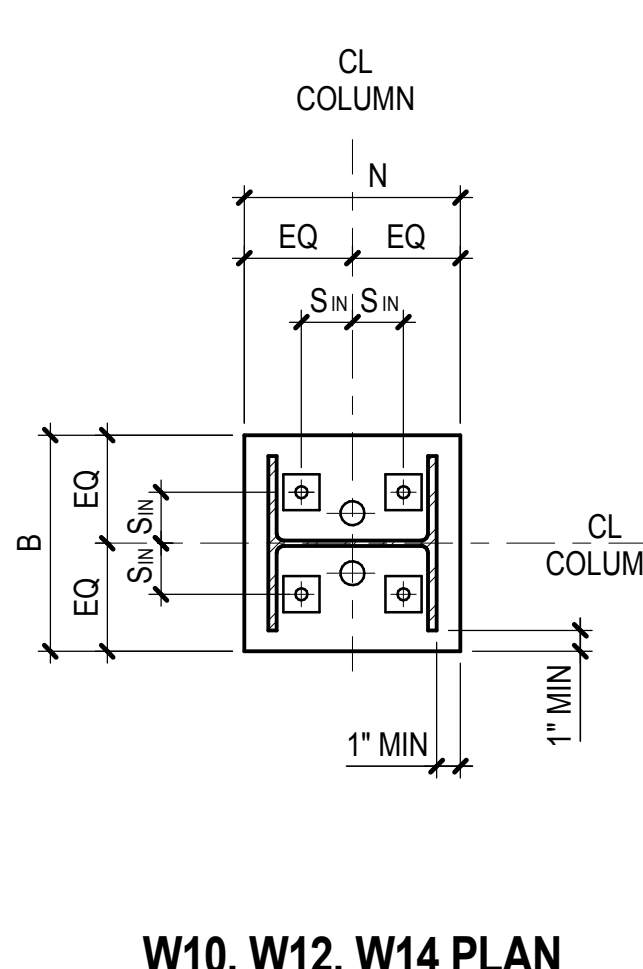
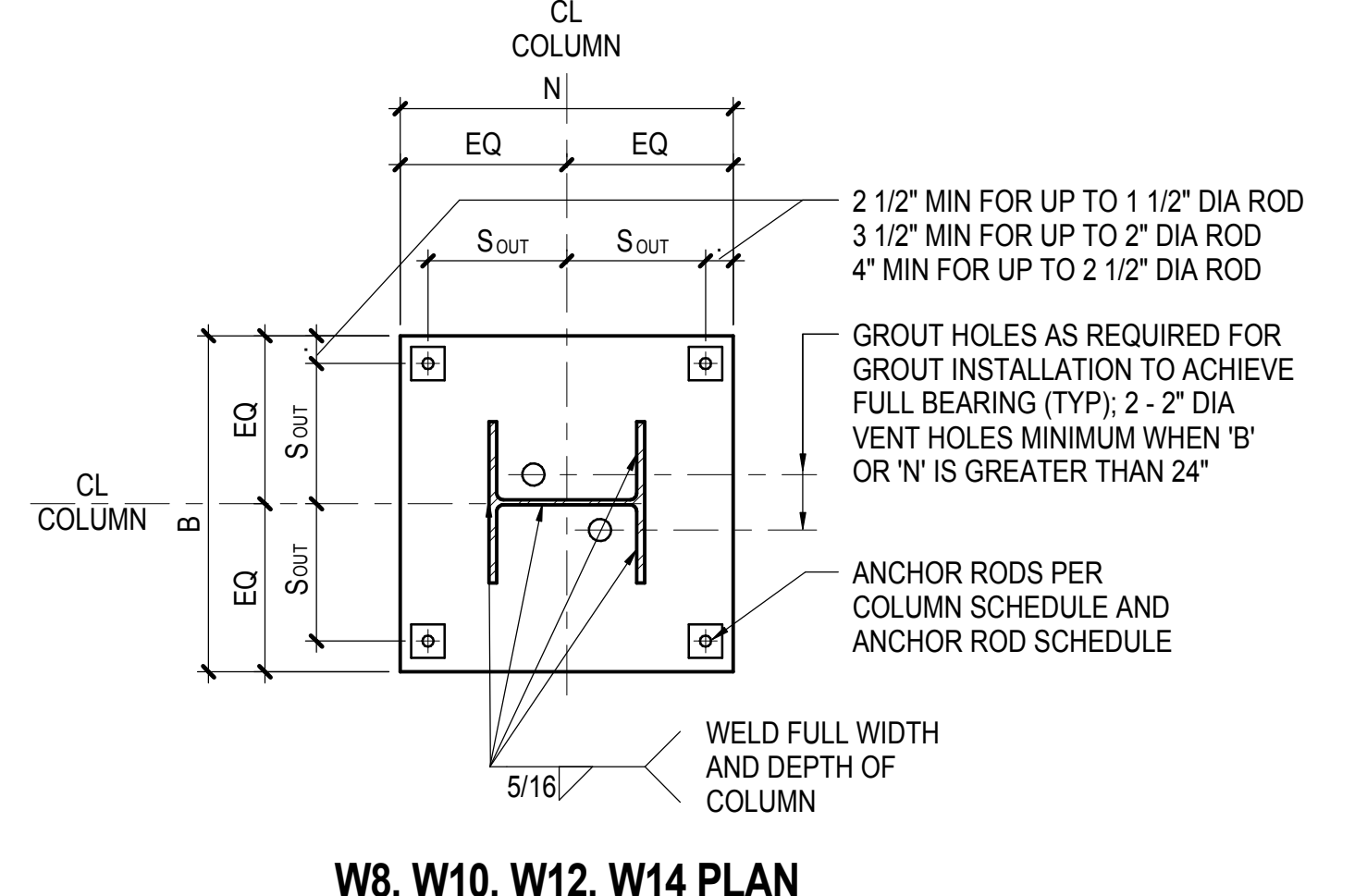
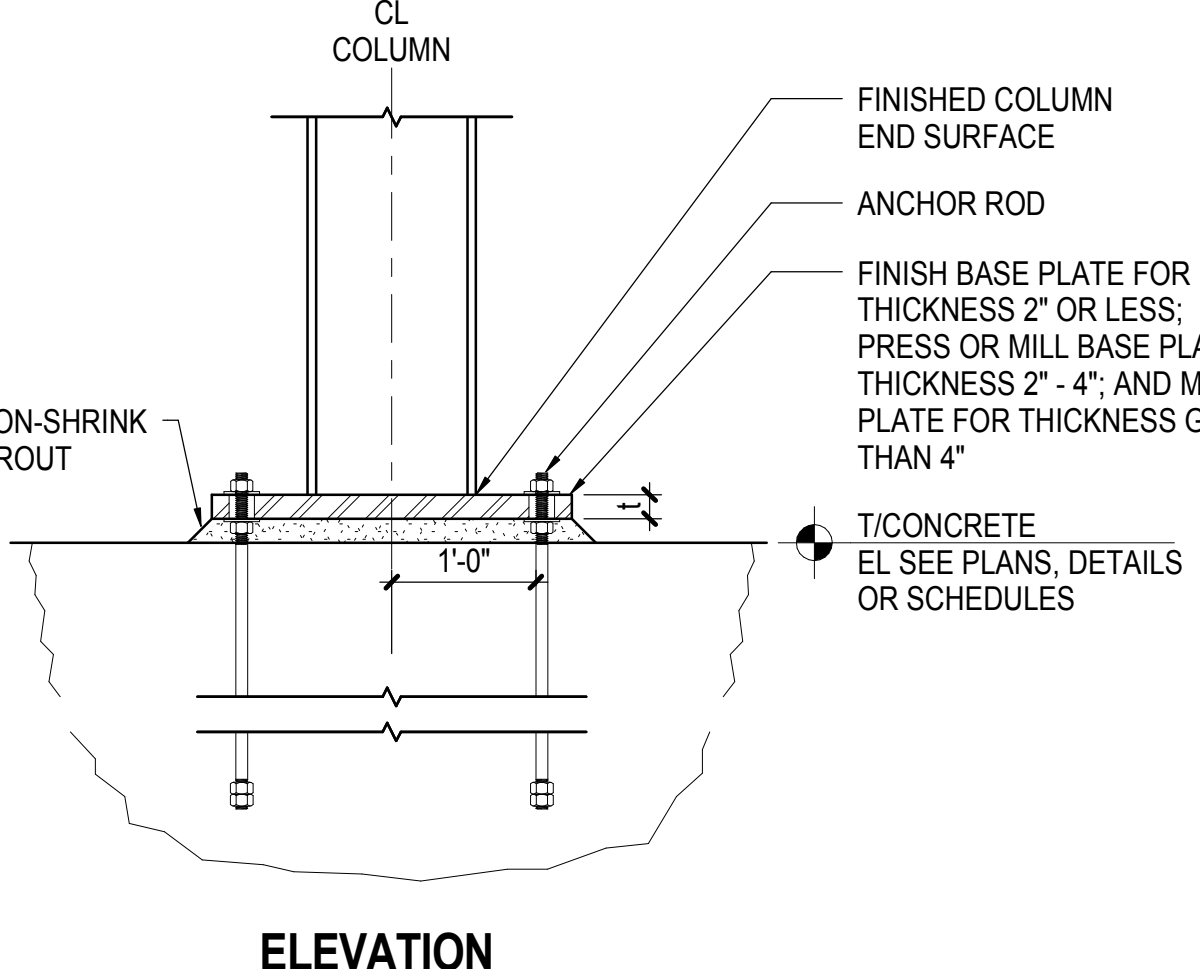
**C CONTRACTOR-DESIGNED ALTERNATE FOR UPPER COLUMN 2\"/>**



**2 TYPICAL TENSION / MOMENT COLUMN SPLICE DETAILS (CONTRACTOR - DESIGNED)**

- NOTES:**
- FOR LOCATIONS OF TENSION / MOMENT SPLICES SEE COLUMN SCHEDULE, MOMENT FRAME OR BRACED FRAME ELEVATIONS
  - PROVIDE CONNECTION TO DEVELOP THE LARGEST OF THE FOLLOWING:  
A. THE TENSION AND MOMENT CONNECTION FORCES INDICATED ON THE PLANS, ELEVATIONS OR SCHEDULES  
B. 150 KIPS TENSION MINIMUM (FACTORED)
  - INNER SPLICE PLATE (IF USED) SHALL HAVE THE SAME CROSS SECTIONAL AREA AS OUTER PLATES, INNER SPLICE PLATES REQUIRED WHERE SINGLE OUTER PLATE WOULD EXCEED 1" THICK
  - FOR TENSION COLUMN SPLICES THE WEB AND FLANGE CONNECTIONS OF BOLTED OR WELDED JOINTS SHALL BE PROPORTIONED BASED ON THEIR ASSOCIATED AREAS
  - IN NO CASE SHALL THE PLATE SIZE AND THE NUMBER OF BOLTS AND DIAMETER BE LESS THAN THOSE LISTED IN THE TYPICAL COLUMN SPLICE DETAIL
  - PROVIDE WEB SHEAR SPLICE TO DEVELOP:  
A. THE SHEAR FORCES SHOWN ON THE PLANS, ELEVATIONS OR SCHEDULES  
B. 60 KIPS MINIMUM (FACTORED)
  - ERECTION AIDS NOT SHOWN ARE THE RESPONSIBILITY OF THE CONTRACTOR. SEE GENERAL NOTES

**1 TYPICAL COLUMN SPLICE DETAIL**  
NOT TO SCALE



- NOTES:**
- SEE COLUMN SCHEDULE FOR BASE PLATE SIZE, ORIENTATION AND THICKNESS
  - BASE PLATE THICKNESS SHOWN ON SCHEDULE IS A MIN. DIMENSION AFTER ALL MILLING IS COMPLETED
  - COLUMN STABILITY DURING ERECTION IS RESPONSIBILITY OF CONTRACTOR
  - SEE ANCHOR ROD SCHEDULE AND TYPICAL ANCHOR ROD DETAIL FOR ADDITIONAL INFORMATION
  - CONTRACTOR'S OPTION TO FIELD WELD COLUMNS TO BASEPLATES FOR HEAVY BASEPLATES
  - ANCHOR ROD CONFIGURATION IS TO USE SQUARE PATTERN OUTSIDE COLUMN, IF SPECIFIED BASE PLATE SIZE DOES NOT PERMIT OUTSIDE PLACEMENT USE SQUARE PATTERN INSIDE COLUMN, USE RECTANGULAR ANCHOR ROD CONFIGURATION WHERE NOTED

**TABLE 1**  
S<sub>out</sub> FOR SQUARE ANCHOR ROD PATTERN OUTSIDE COLUMN

ANCHOR ROD DIAMETER	W8	W10	W12x40 THRU 106	W12x120 THRU 336	W14x43 THRU 82	W14x90 THRU 211	W14x233 THRU 398	W14x426 THRU 730
3/4"	6"	7"	8"	8"	8"	NA	NA	NA
1"	6 1/2"	7 1/2"	8 1/2"	9 1/2"	8 1/2"	10"	11"	12"
1 1/4"	6 1/2"	7 1/2"	8 1/2"	9 1/2"	8 1/2"	10"	11"	12"
1 1/2"	6 1/2"	7 1/2"	8 1/2"	10 1/2"	8 1/2"	10"	11"	13"
1 3/4"	7 1/2"	8 1/2"	9 1/2"	10 1/2"	8 1/2"	11"	11"	13"
2"	7 1/2"	8 1/2"	9 1/2"	10 1/2"	9 1/2"	11"	12"	13"
2 1/2"	7 1/2"	8 1/2"	9 1/2"	10 1/2"	9 1/2"	11"	12"	13"

**TABLE 2**  
S<sub>in</sub> FOR SQUARE ANCHOR ROD PATTERN INSIDE COLUMN

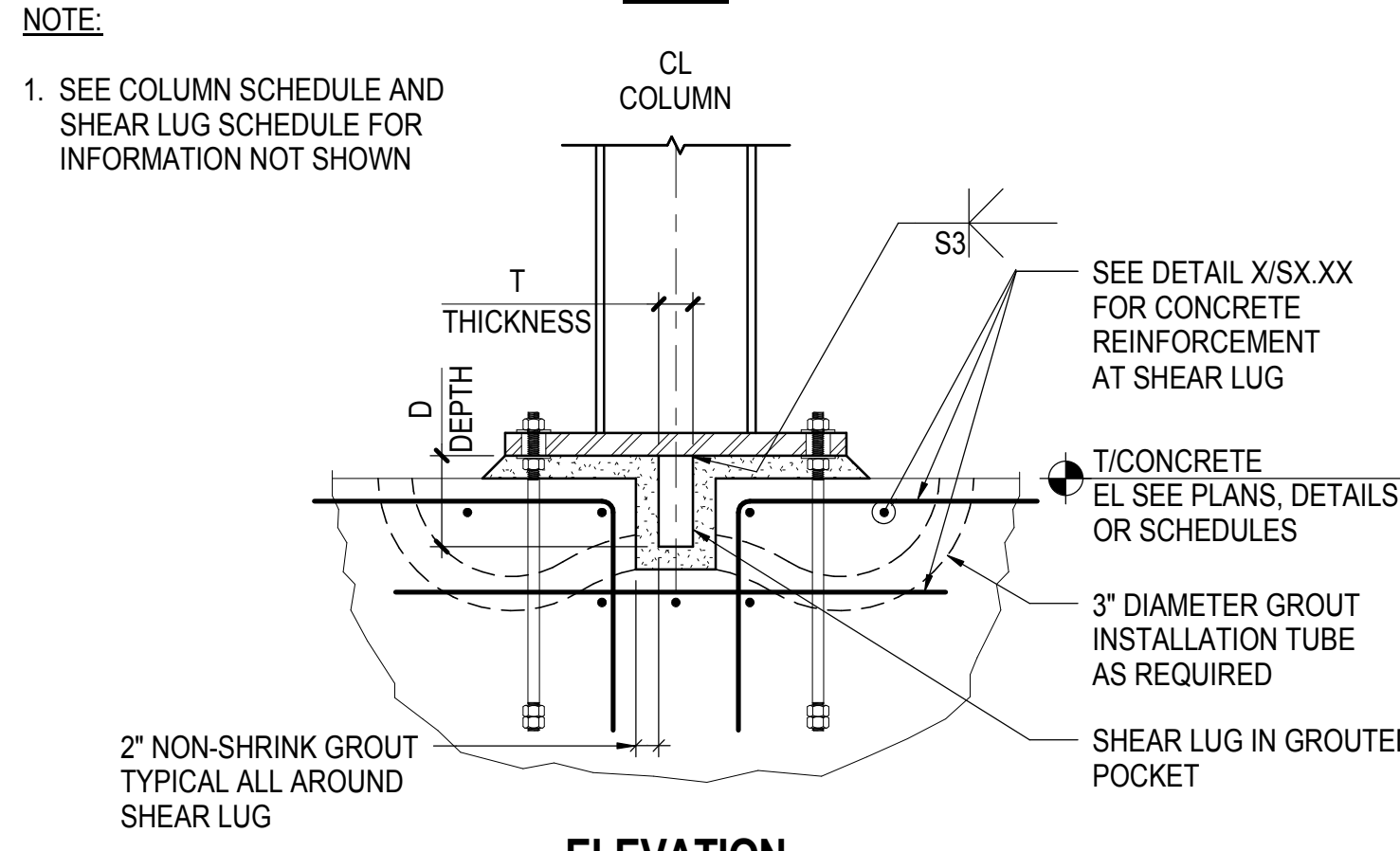
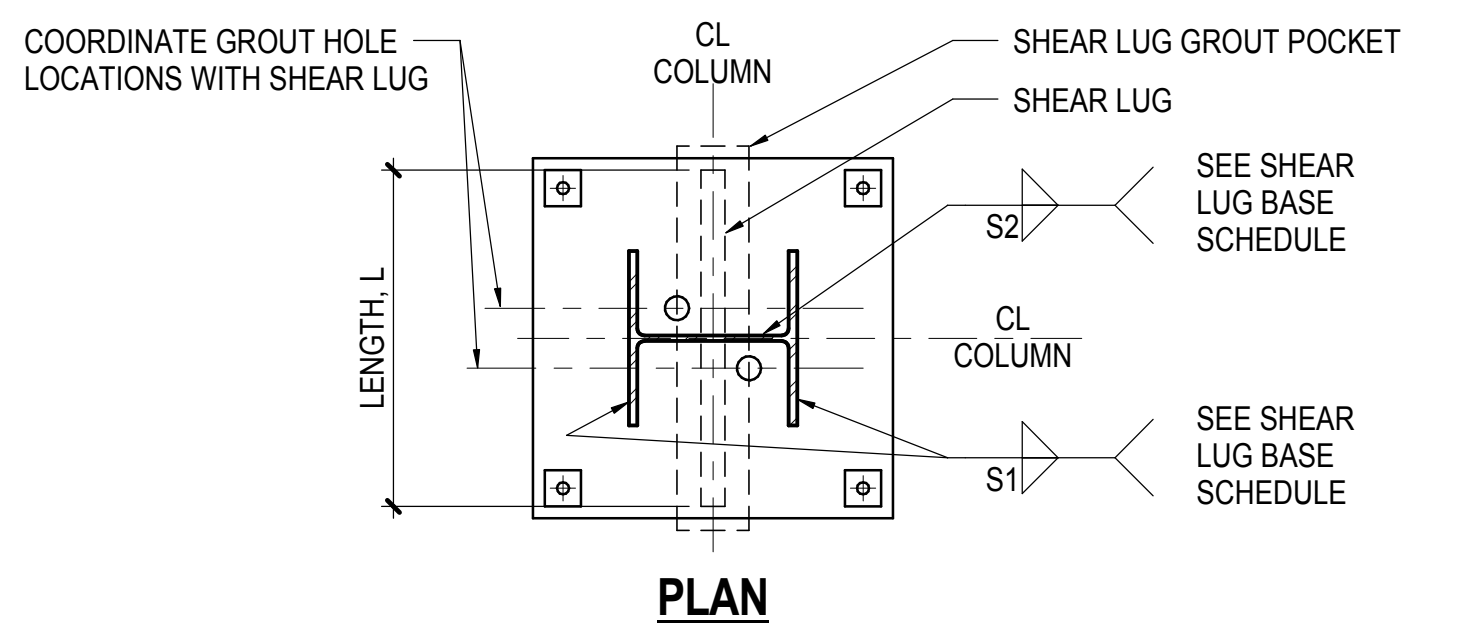
SHAPE	S <sub>in</sub>
W8	NA
W10	2 1/2"
W12	3"
W14	4"

- NOTES FOR TABLE 2:**
- INSIDE ANCHOR ROD CONFIGURATION NOT APPLICABLE TO ROD DIAMETERS GREATER THAN 1 1/4" FOR W14, 1" FOR W12, AND 3/4" FOR W10. INSIDE BOLT CONFIGURATION NOT APPLICABLE TO W8
  - INSIDE ANCHOR ROD CONFIGURATION NOT APPLICABLE TO COLUMNS HEAVIER THAN W14x426

**TABLE 3**  
S<sub>long</sub> AND S<sub>short</sub> FOR RECTANGULAR ANCHOR ROD PATTERN

ANCHOR ROD DIAMETER	W8		W10		W12x40 THRU 106		W12x120 THRU 336		W14x43 THRU 82		W14x90 THRU 211		W14x233 THRU 398		W14x426 THRU 730	
	S <sub>long</sub>	S <sub>short</sub>	S <sub>long</sub>	S <sub>short</sub>	S <sub>long</sub>	S <sub>short</sub>	S <sub>long</sub>	S <sub>short</sub>	S <sub>long</sub>	S <sub>short</sub>	S <sub>long</sub>	S <sub>short</sub>	S <sub>long</sub>	S <sub>short</sub>	S <sub>long</sub>	S <sub>short</sub>
3/4"	6 1/2"	2 1/2"	8"	2 1/2"	8 1/2"	3"	NA	NA	9 1/2"	4"	NA	NA	NA	NA	NA	NA
1"	7 1/2"	2 1/2"	8 1/2"	2 1/2"	9 1/2"	3"	11"	4 1/2"	10"	4"	10 1/2"	5 1/2"	12"	6"	14"	6 1/2"
1 1/4"	7 1/2"	2 1/2"	8 1/2"	2 1/2"	9 1/2"	3"	11"	4 1/2"	10"	4"	10 1/2"	5 1/2"	12"	6"	14"	6 1/2"
1 1/2"	8"	2 1/2"	9"	2 1/2"	9 1/2"	3"	11 1/2"	4 1/2"	10"	4"	11"	5 1/2"	12"	6"	14 1/2"	6 1/2"
1 3/4"	8"	3"	9"	3"	10"	3"	12"	4"	10 1/2"	4"	11 1/2"	4"	12 1/2"	4 1/2"	14 1/2"	5"
2"	9"	4"	10"	4"	10 1/2"	4"	12 1/2"	4"	11"	4"	12"	4"	13"	4 1/2"	15 1/2"	5"
2 1/2"	9"	4"	10"	4"	11"	4"	12 1/2"	4"	11 1/2"	4"	12"	4"	13 1/2"	4 1/2"	15 1/2"	5"

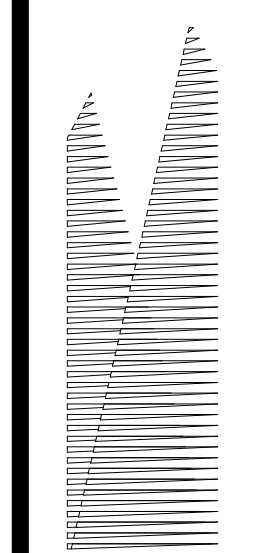
**3 TYPICAL BASE PLATE DETAIL**  
NOT TO SCALE



**4 TYPICAL SHEAR LUG DETAIL**  
3/4" = 1'-0"

**HUDSON YARDS PLATFORM**

Address  
530 WEST 33RD STREET  
NEW YORK, NY



**Client**  
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**Construction Manager**  
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100 Park Avenue, 5th Floor  
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**Architect**  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, NY 10036  
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Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
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**Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security**  
Person's Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

**LIRR Ventilation**  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

**LIRR Substation**  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

NYC DOB FILING 12/4/2013  
L.I.R.R. - PRE-FINAL 100% 11/22/2013  
M&E PLATFORM SUBMISSION  
A. DI-02 PHASE I STRUCTURAL UPDATE 11/1/2013  
NYC DOB FILING 10/4/2013  
A. DI-01 PHASE I STRUCTURE UPDATE 9/20/2013  
L.I.R.R. - 90% SUBMISSION 8/09/2013  
NYC DOB FILING 6/17/2013  
L.I.R.R. - 60% SUBMISSION 5/29/2013  
L.I.R.R. - 60% - PHASE I FINIS 3/29/2013  
NYC DOB FILING 2/15/2013  
NYC DOB FILING 1/22/2013

Project No: 12/14/2012  
N11330.00  
Title: Author  
Shear Number: Author

**Damian Titus**  
Building APPROVED Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub

**HYE-PL-S-700.00**  
**TYPICAL STEEL COLUMN DETAILS**

Drawing Number / Revision Drawing Number  
**S-700.00**  
SHEET 171 OF 201

S-700.00  
11/22/2013 1:48:38 PM  
C:\pfdm\NY1330-00 - East Platform - Central Column



NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DR-02 PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ - DR-01 PHASE I STRUCTURE UPDATE	9/20/2013
L.I.R.R. - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
L.I.R.R. - 60% SUBMISSION	5/29/2013
L.I.R.R. - 60% - PHASE I FDNS	3/29/2013
L.I.R.R. - 30% SUBMISSION	2/15/2013
NYC Description	Site

**BEAM VERTICAL SHEAR REACTION SCHEDULE**

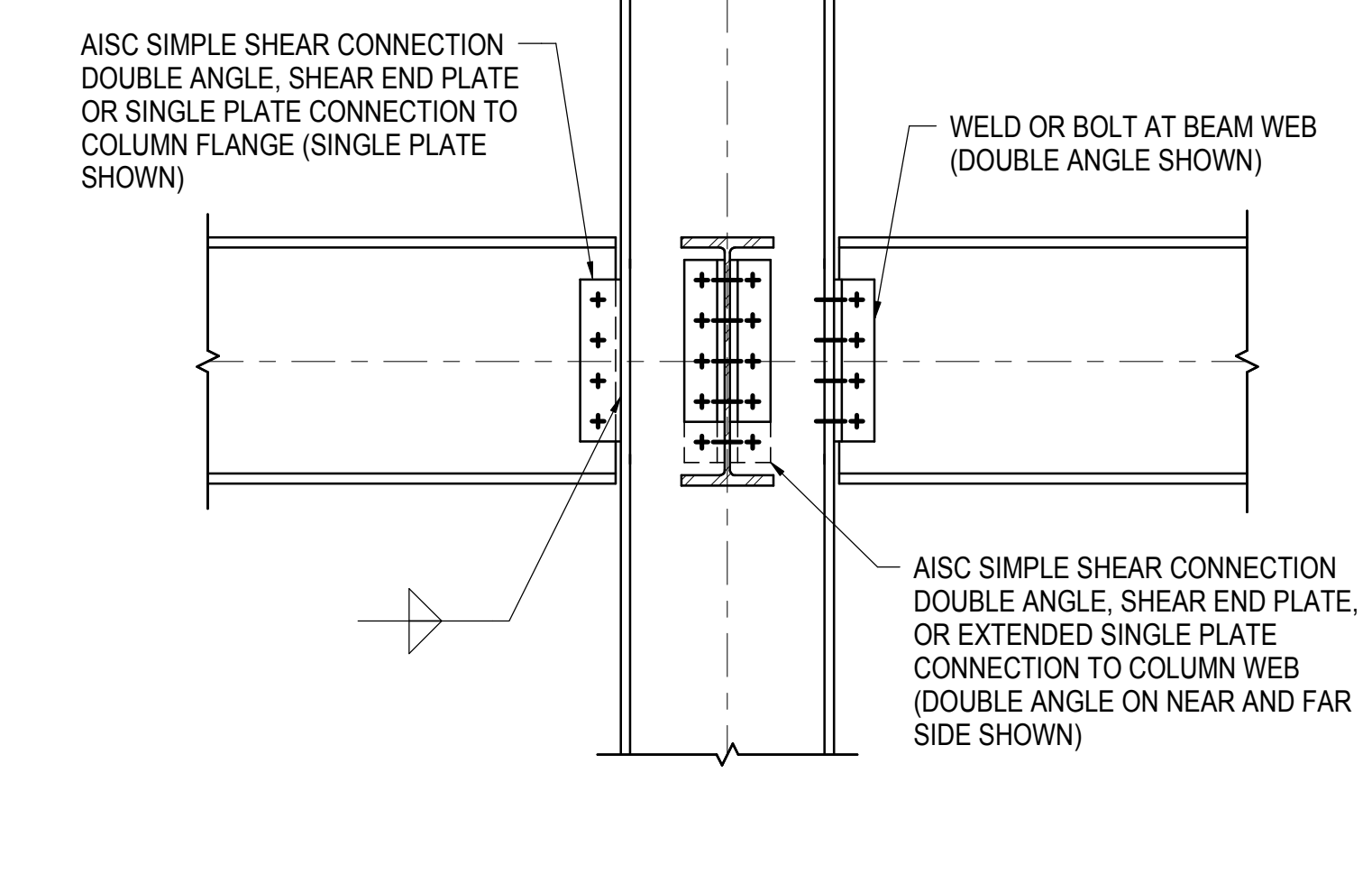
NOMINAL STEEL BEAM SIZE	FACTORED REACTION (KIPS)		
	A325 3/4" DIA BOLTS	A325 7/8" DIA BOLTS	A325 1" DIA BOLTS
W8	16	22	29
W10	16	22	29
W12	32	43	55
W14	32	43	55
W16	49	66	73
W18	66	90	91
W21	83	111	110
W24	100	129	128
W27	100	129	128
W30	116	147	146
W33	116	147	146
W36	133	166	165

**BEAM END MOMENT SCHEDULE**

NOMINAL STEEL BEAM SIZE	FACTORED MOMENT (KIP - FEET)
W8	X
W10	X
W12	X
W14	X
W16	X
W18	X
W21	X
W24	X
W27	X
W30	X
W33	X
W36	X

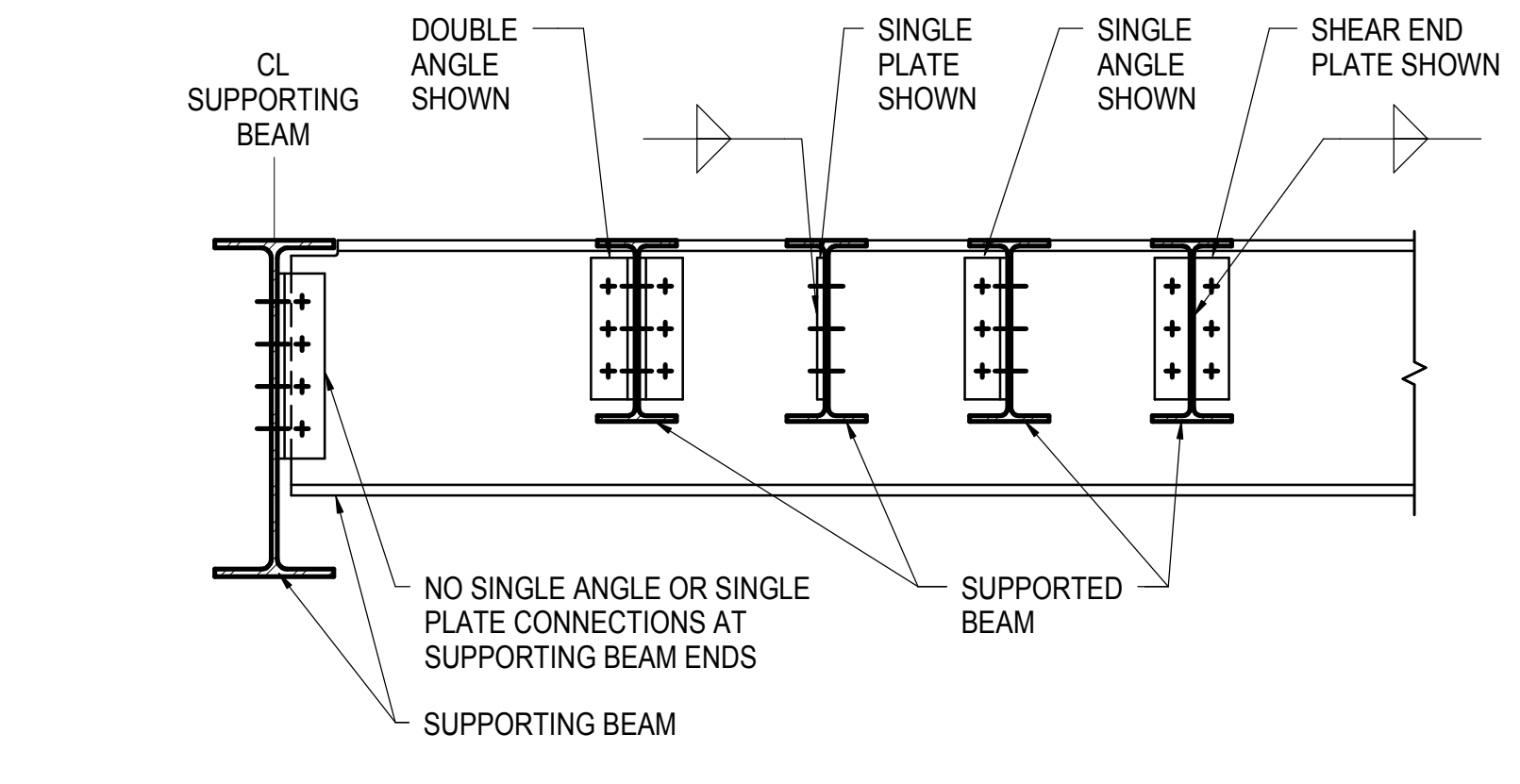
NOTE:  
1. MOMENT APPLIES WHERE MOMENT SYMBOL APPEARS ON PLAN

**1 TYPICAL BEAM CONNECTION SCHEDULE**  
NOT TO SCALE



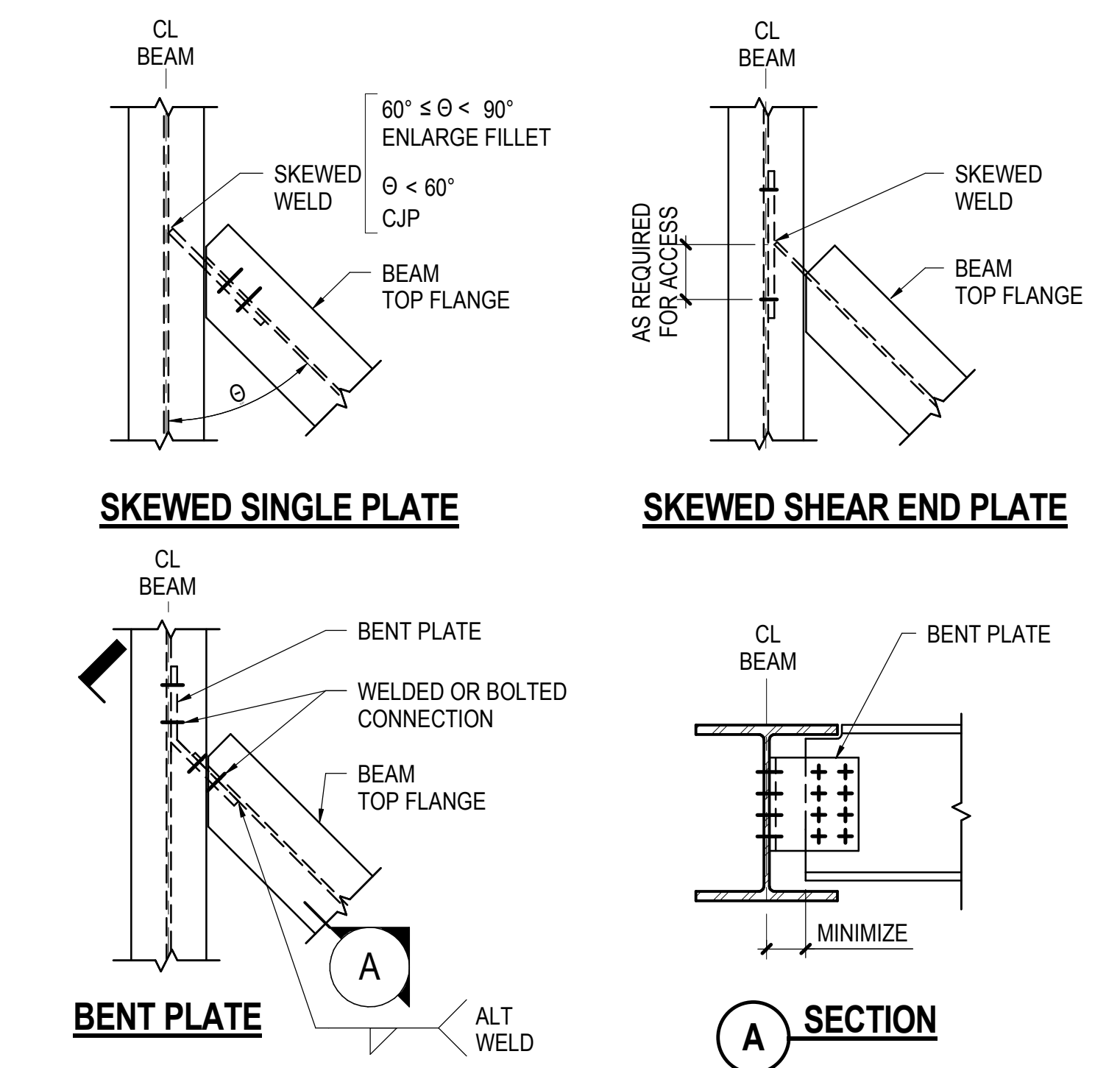
NOTE:  
1. WHERE BEAM AXIAL FORCE IS INDICATED BY PLAN OR NOTES, SINGLE PLATE, DOUBLE ANGLE, OR SHEAR END PLATE CONNECTION SHALL BE USED

**2 TYPICAL BEAM TO COLUMN SHEAR CONNECTION**  
3/4" = 1'-0"

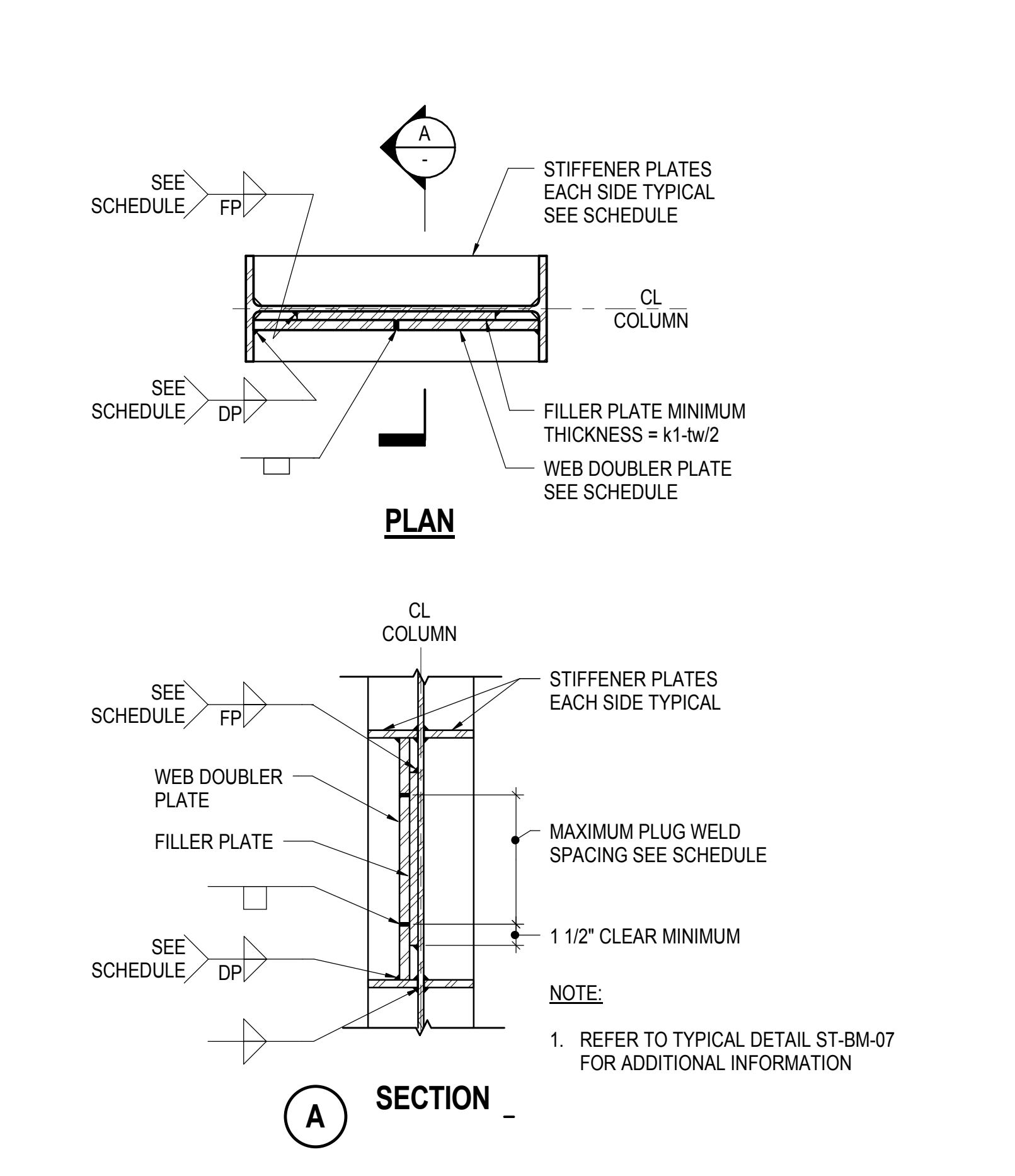


NOTES:  
1. SUPPORTED BEAMS PRIMARILY SUPPORT DISTRIBUTED LOADS FROM SLABS OR DECKING  
2. SUPPORTING BEAMS SUPPORT SIGNIFICANT POINT LOADS FROM ONE OR MORE SUPPORTED BEAMS OR FROM COLUMNS BEING TRANSFERRED. SUPPORTING BEAMS MAY BE SUPPORTED BY COLUMNS OR BY OTHER SUPPORTING BEAMS  
3. FOR AISIC SIMPLE SHEAR CONNECTIONS AT SUPPORTED BEAM ENDS, DOUBLE ANGLE, SINGLE ANGLE, OR SHEAR END PLATE MAY BE USED UON  
4. WELDED/BOLTED OR BOLTED/BOLTED CONNECTIONS PER AISIC ARE PERMITTED

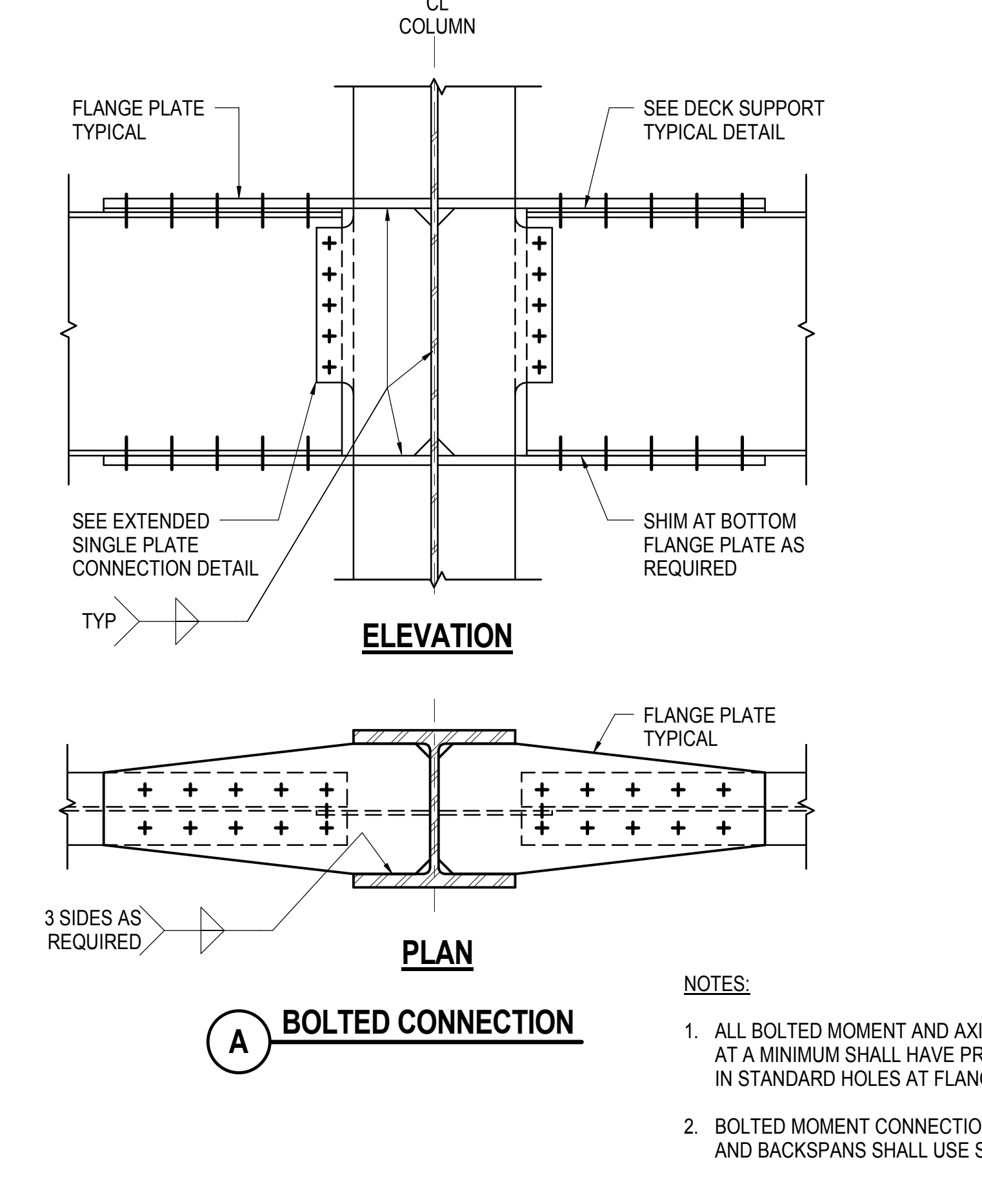
**5 TYPICAL BEAM TO BEAM SHEAR CONNECTION (4 TYPES)**  
NOT TO SCALE



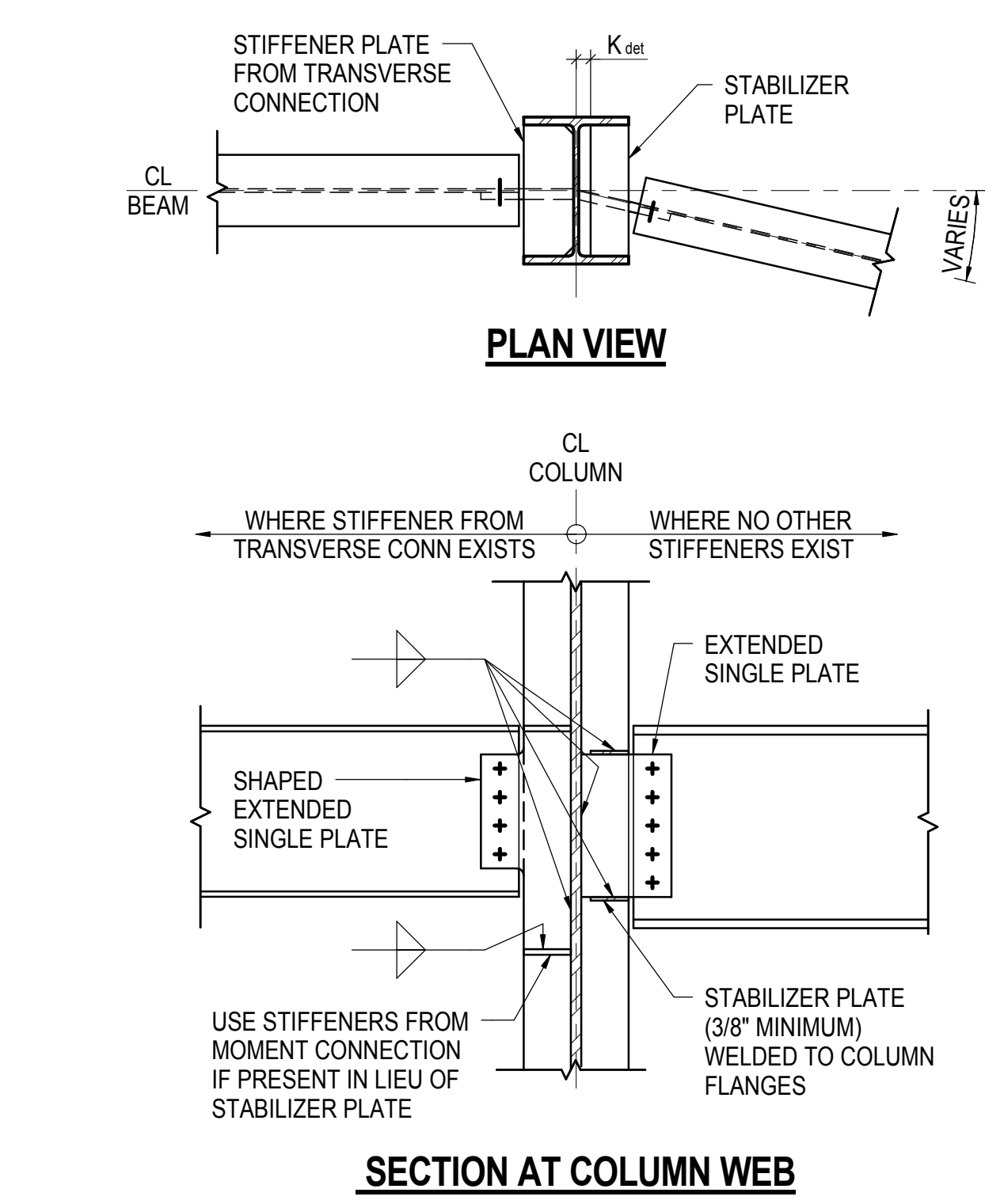
**6 TYPICAL SKEWED BEAM SHEAR CONNECTION**  
NOT TO SCALE



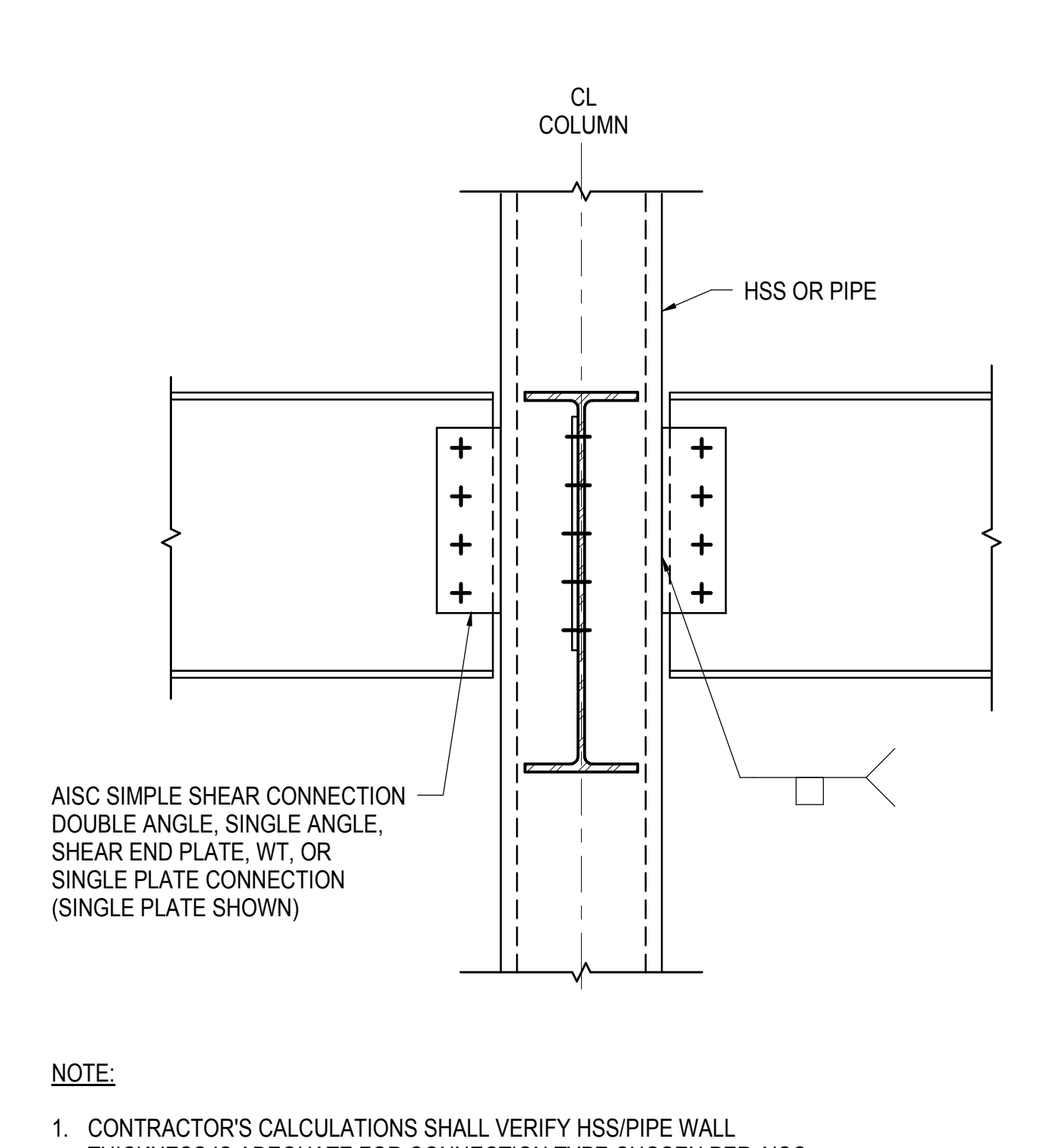
**8 TYPICAL WEB DOUBLER PLATE CONNECTION**  
NOT TO SCALE



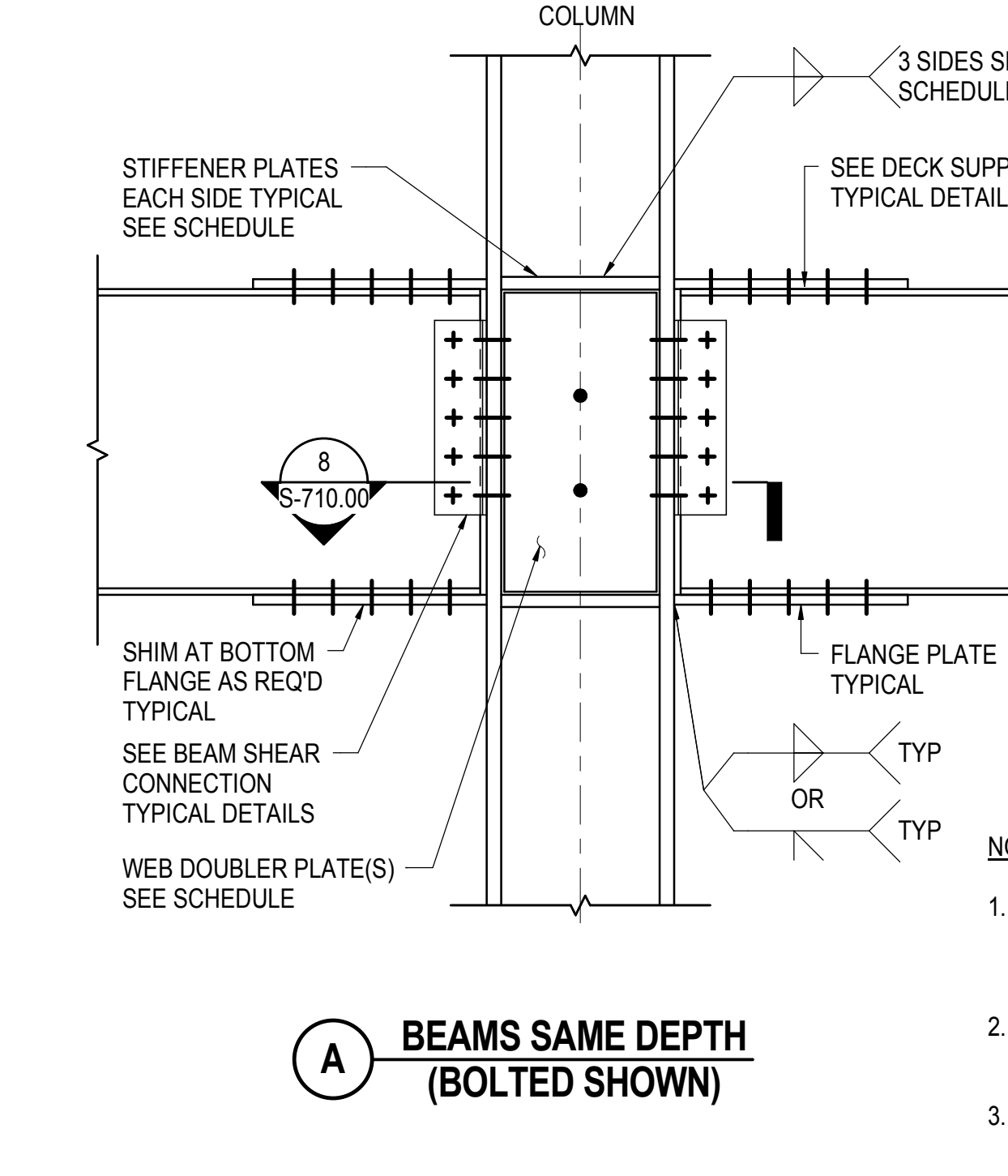
**9 TYPICAL BEAM TO COLUMN WEB MOMENT CONNECTION - BOLTED / WELDED**  
NOT TO SCALE



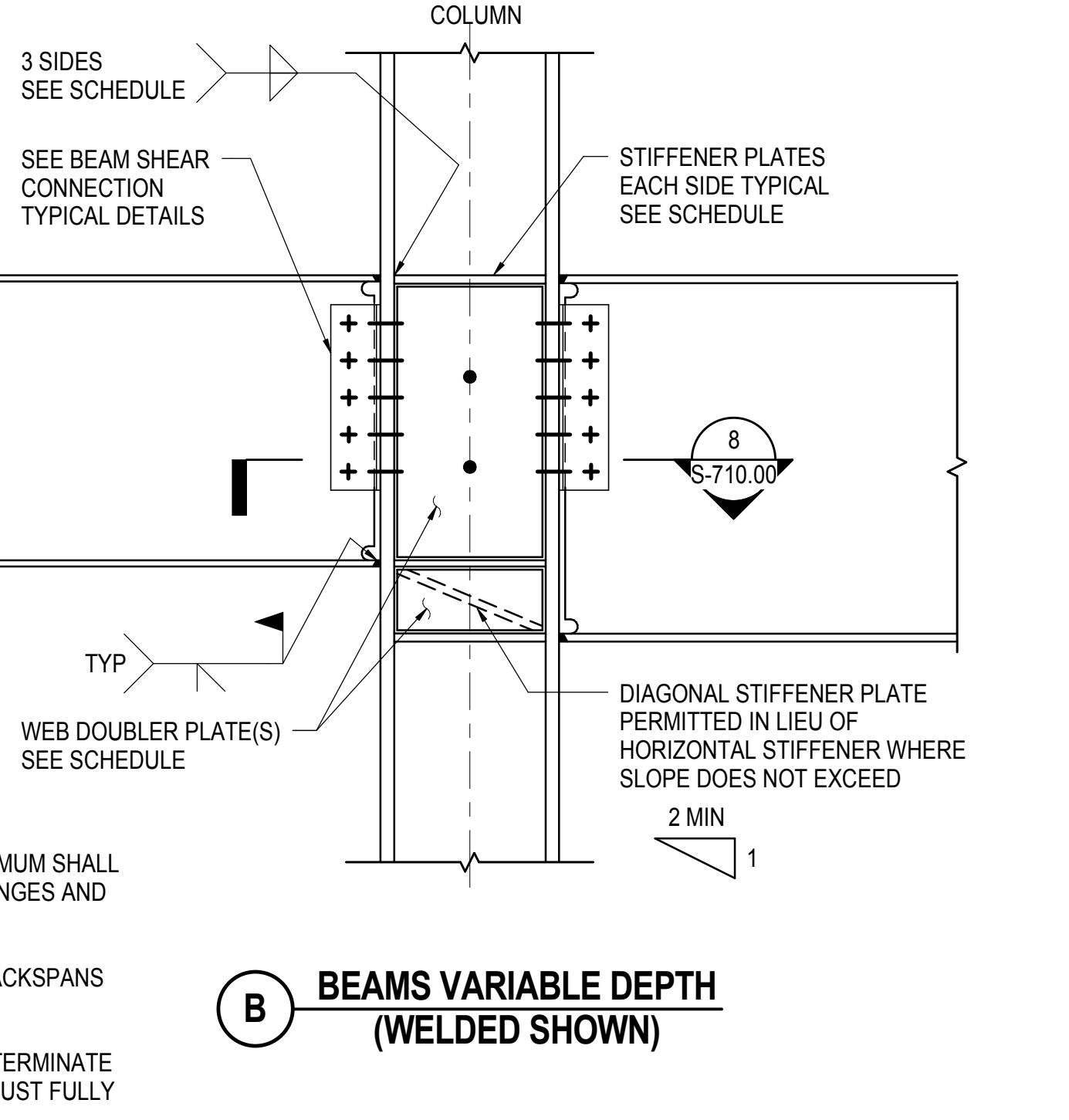
**3 TYPICAL EXTENDED PLATE BEAM TO COLUMN WEB SHEAR CONNECTION**  
NOT TO SCALE



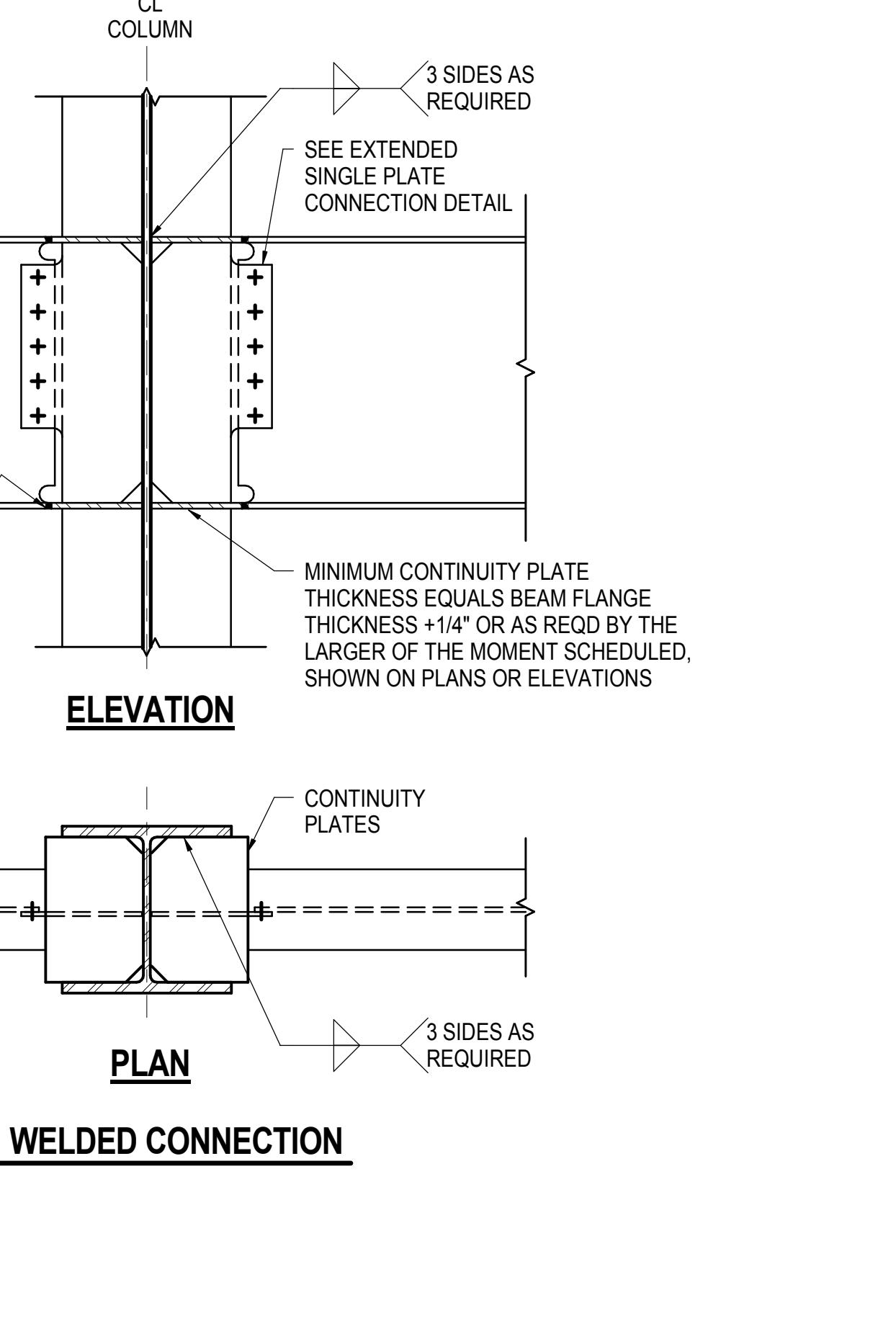
**4 TYPICAL BEAM TO HSS/PIPE COLUMN SHEAR CONNECTION**  
NOT TO SCALE



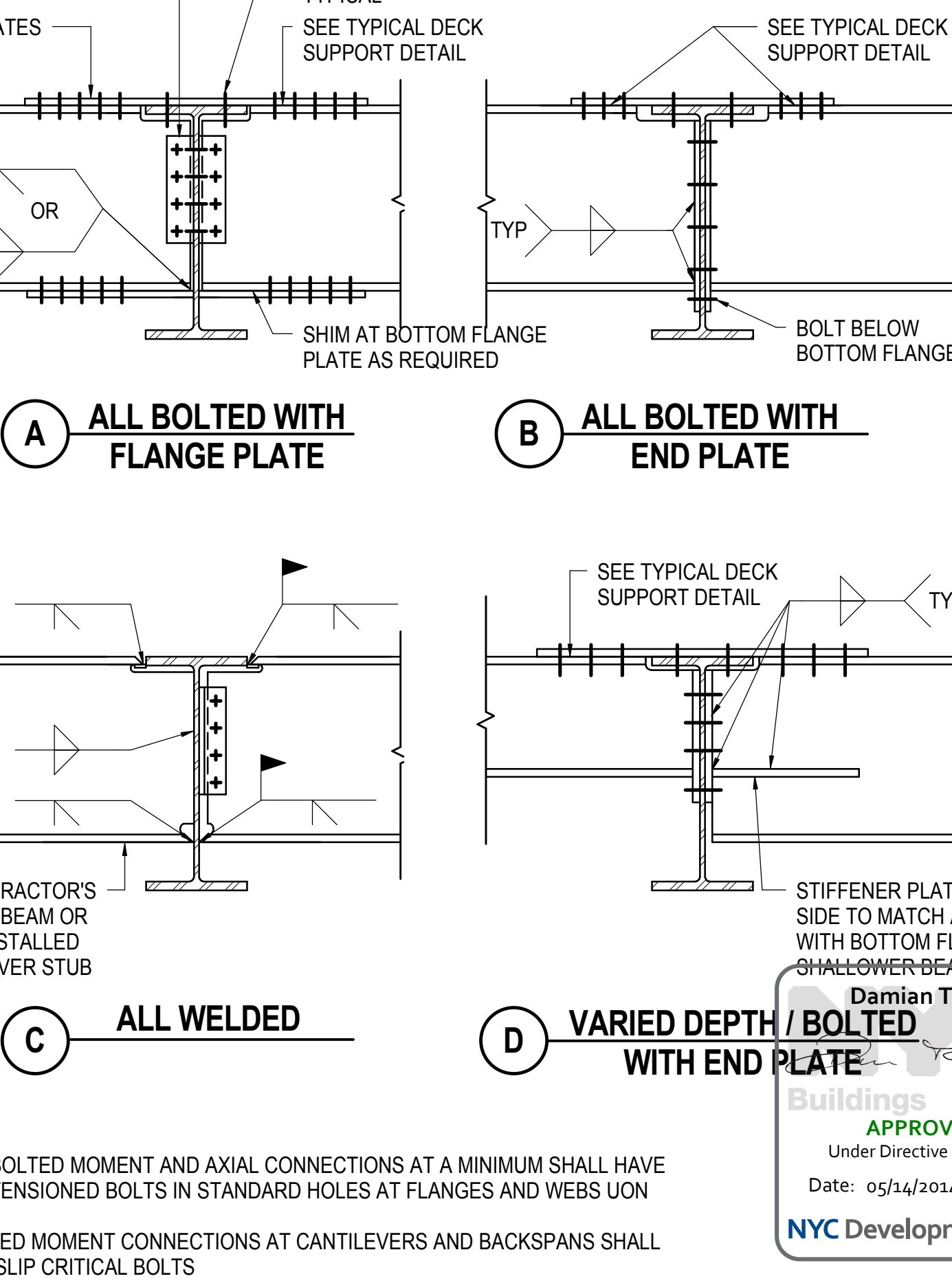
**7 TYPICAL BEAM TO COLUMN FLANGE MOMENT CONNECTION - BOLTED/WELDED**  
NOT TO SCALE



**10 TYPICAL BEAM TO BEAM MOMENT CONNECTION**  
NOT TO SCALE



**11 TYPICAL BEAM TO COLUMN FLANGE MOMENT CONNECTION - BOLTED/WELDED**  
NOT TO SCALE

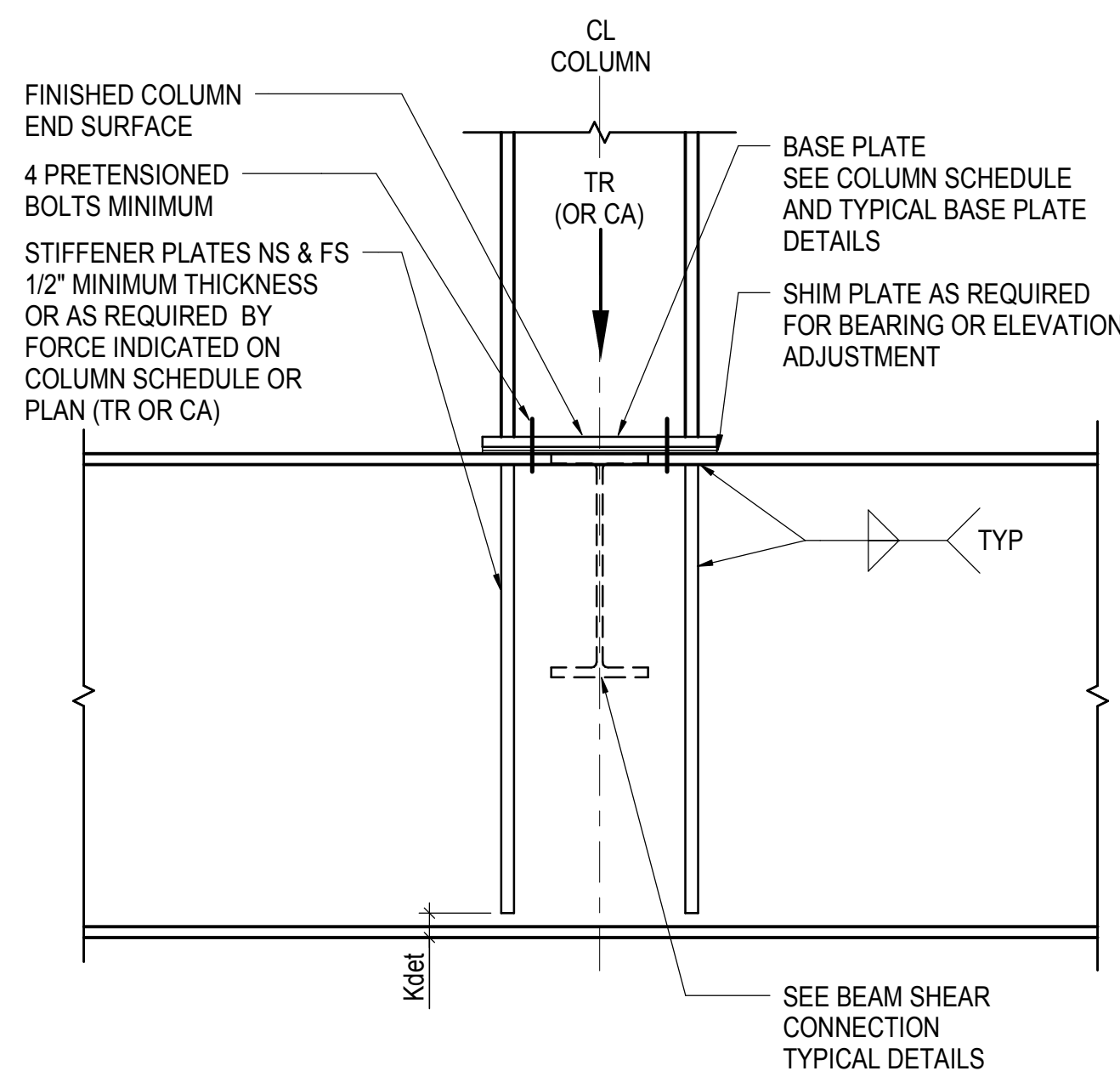


**12 TYPICAL BEAM TO BEAM MOMENT CONNECTION**  
NOT TO SCALE

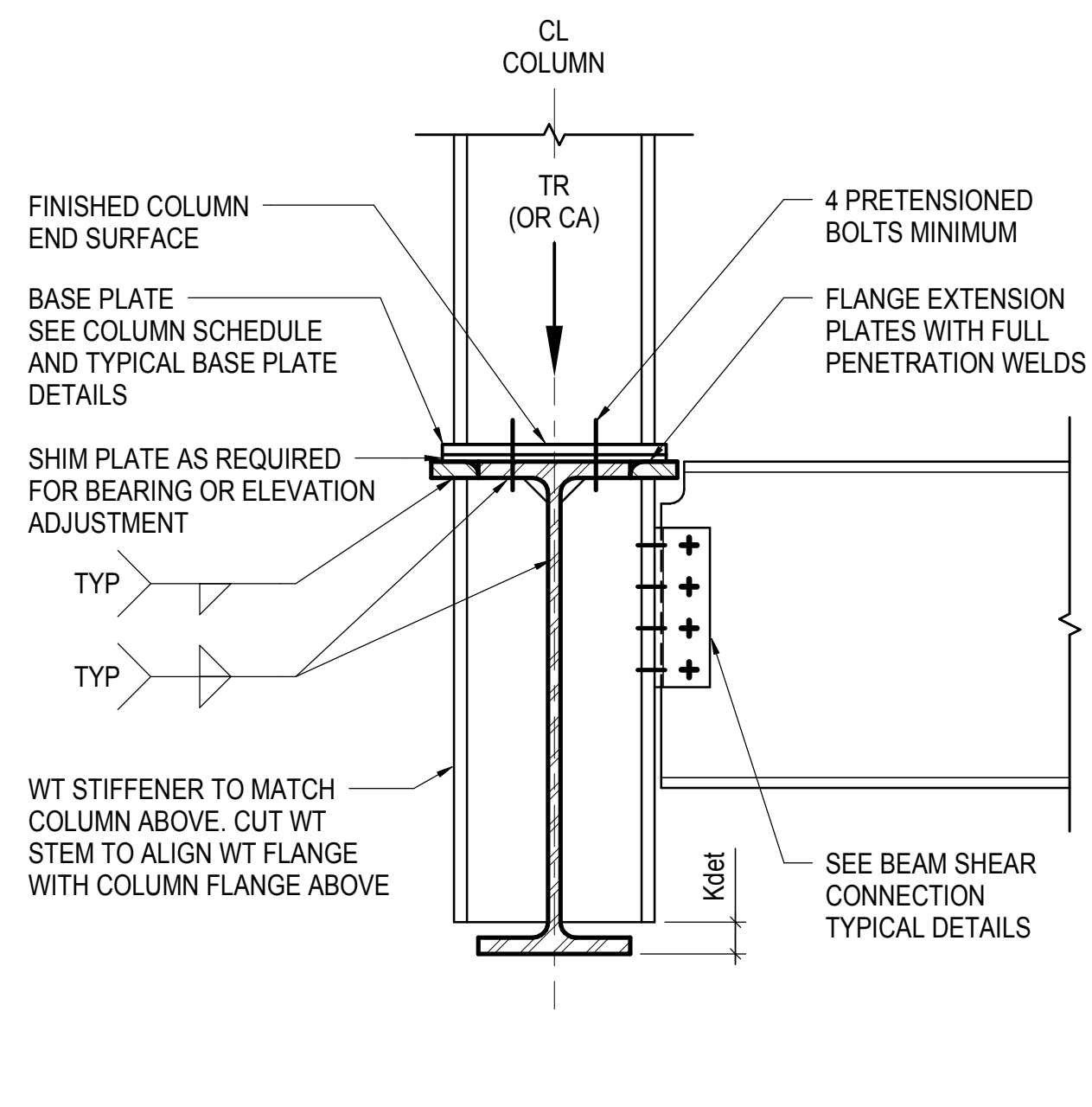
12/14/2012  
N11330.00  
Author  
HYE - PL - S-710.00  
TYPICAL STEEL BEAM DETAILS I  
SHEET 172 OF 201

S-710.00  
11/22/2013 1:15:09 PM  
C:\schem\N11330.00 - Emt Platform - Central\_cpm.rvt



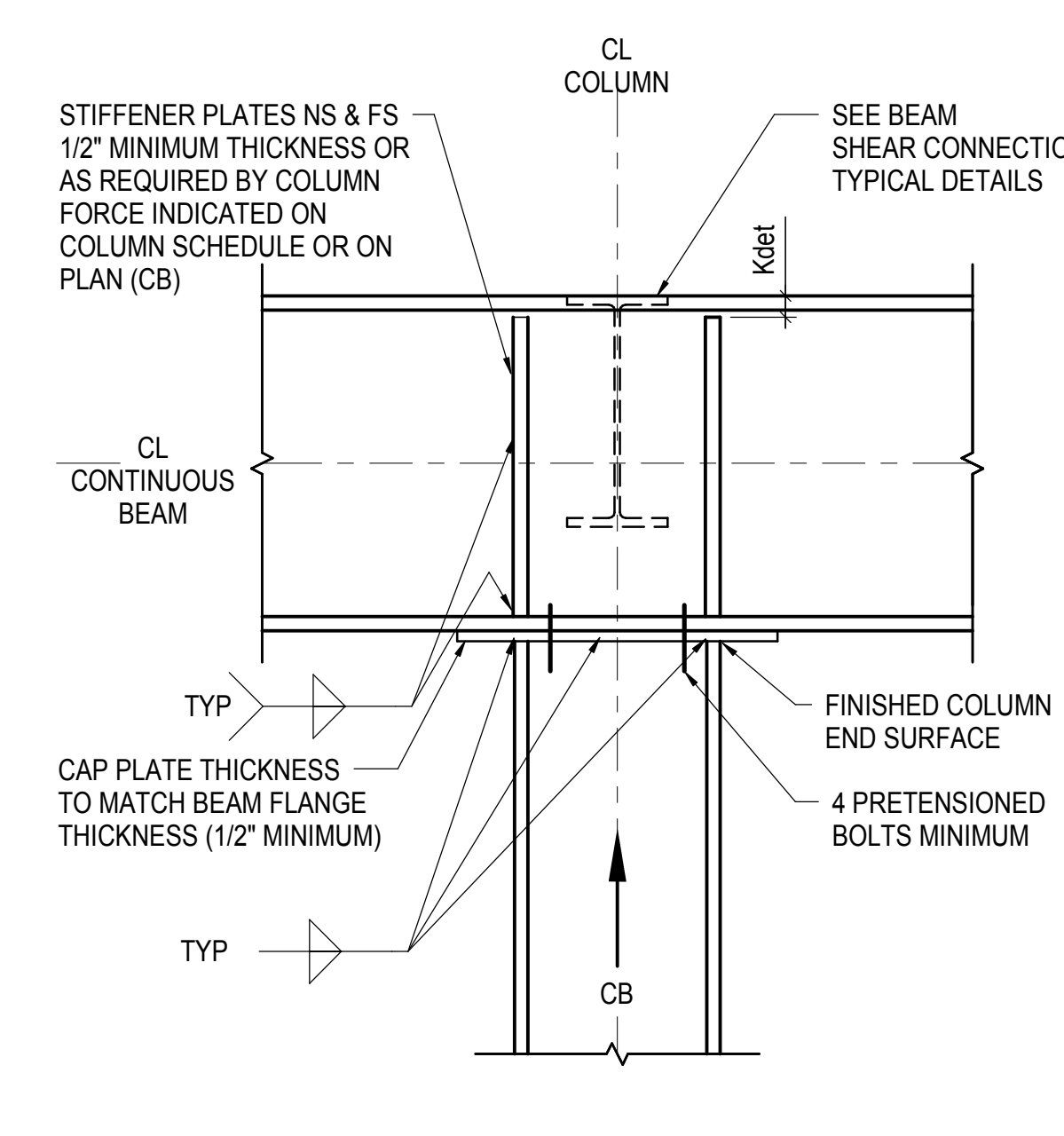


**A** COLUMN WEB PARALLEL TO BEAM WEB

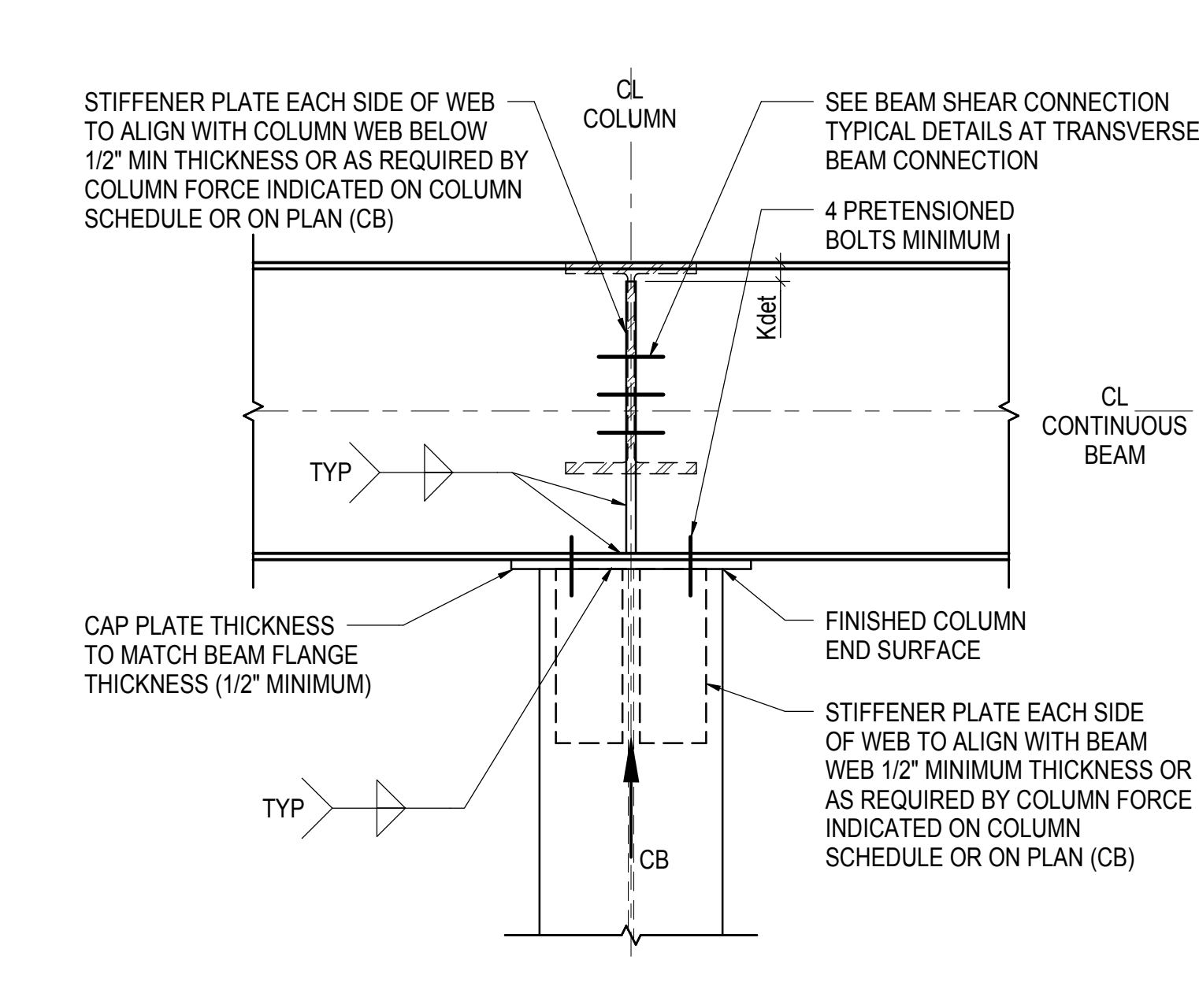


**B** COLUMN WEB PERPENDICULAR TO BEAM WEB

**1** TYPICAL COLUMN BEARING ON BEAM (COMPRESSION ONLY)  
NOT TO SCALE

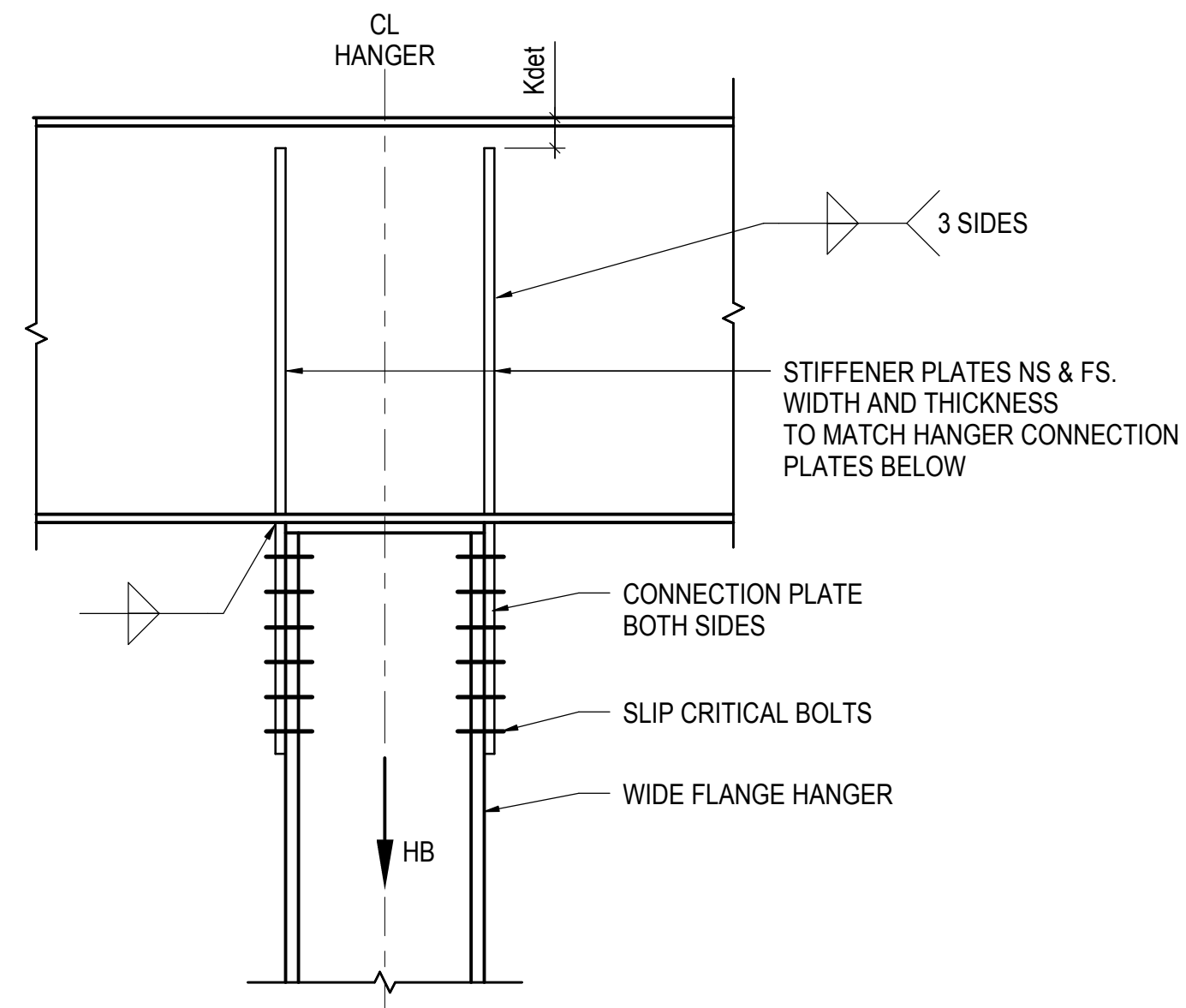


**A** COLUMN WEB PARALLEL TO BEAM WEB

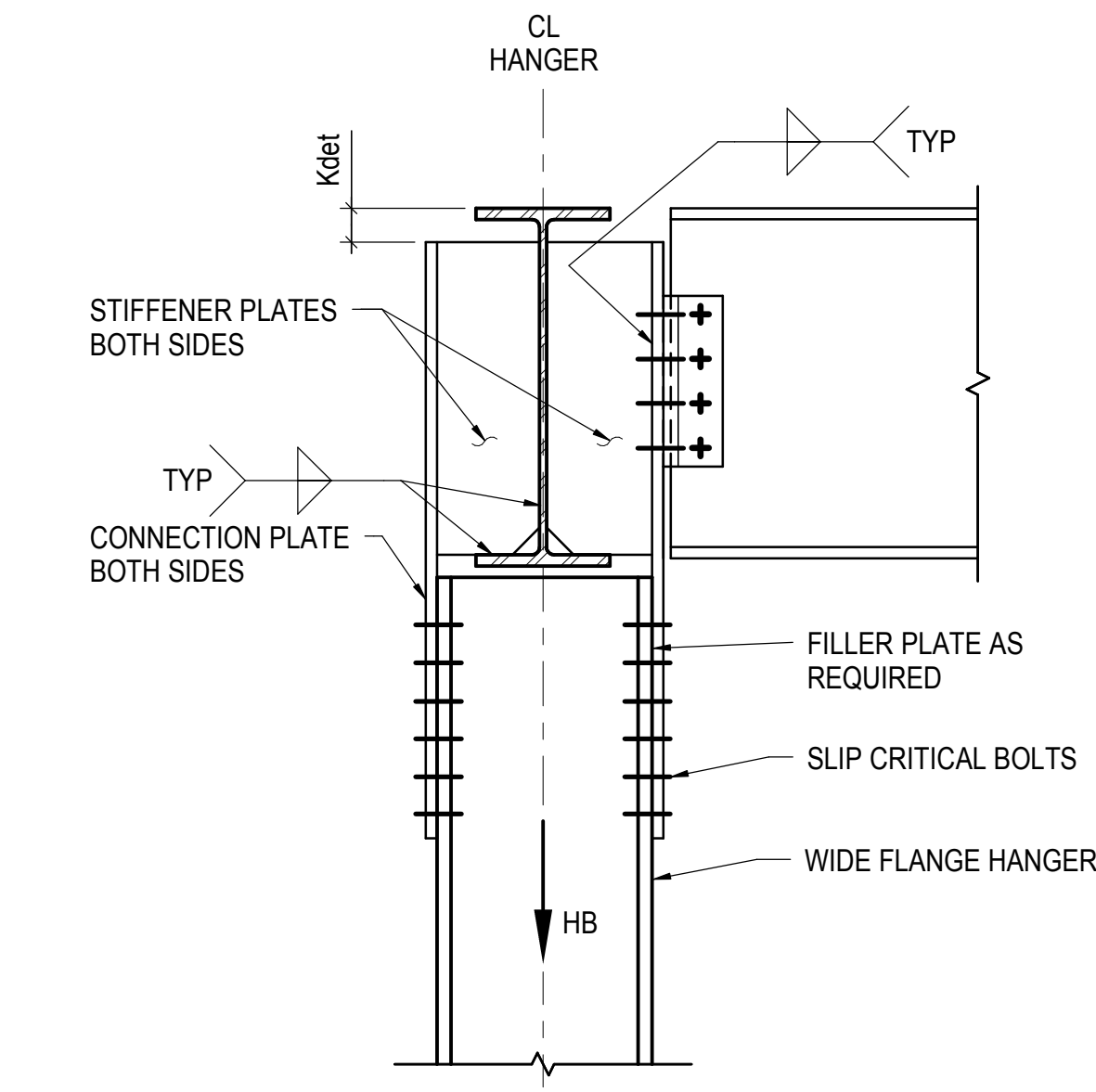


**B** COLUMN WEB PERPENDICULAR TO BEAM WEB

**2** TYPICAL BEAM BEARING ON COLUMN (AXIAL ONLY)  
NOT TO SCALE



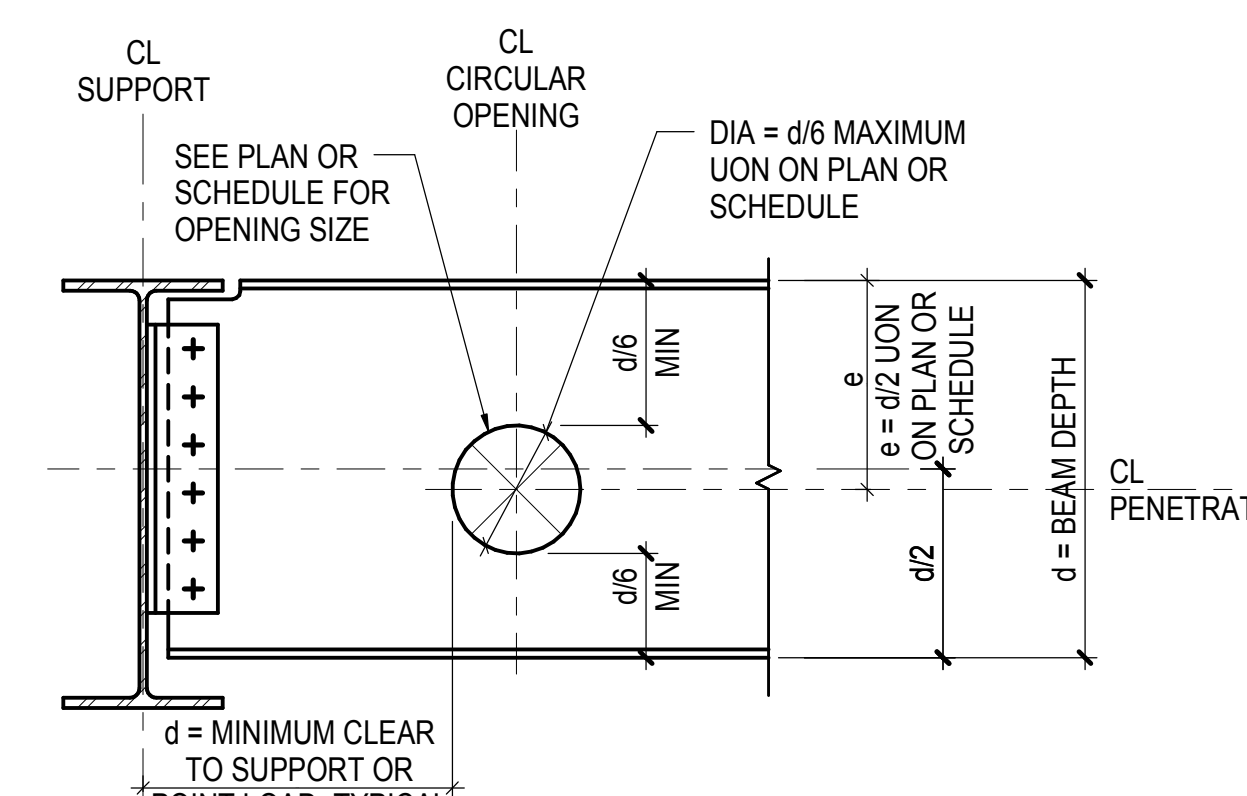
**A** HANGER WEB PARALLEL TO BEAM WEB



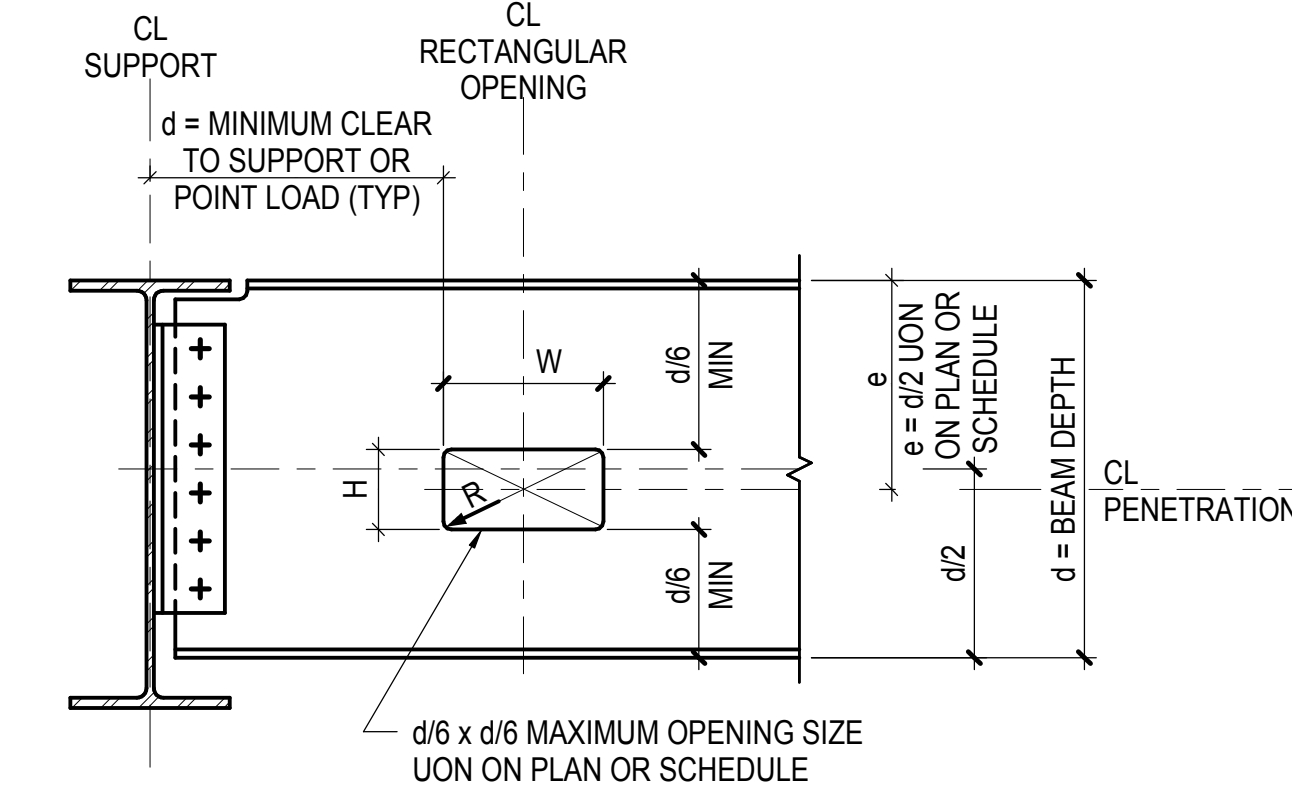
**B** HANGER WEB PERPENDICULAR TO BEAM WEB

NOTE:  
1. DEVELOP THE HANGER TENSION FORCE (HB) AS INDICATED ON COLUMN SCHEDULE OR FRAMING PLANS. IF HANGER FORCE (HB) IS NOT SHOWN, DESIGN FOR 90% OF TENSION CAPACITY OF HANGER.

**3** TYPICAL HANGER (AXIAL ONLY)  
NOT TO SCALE



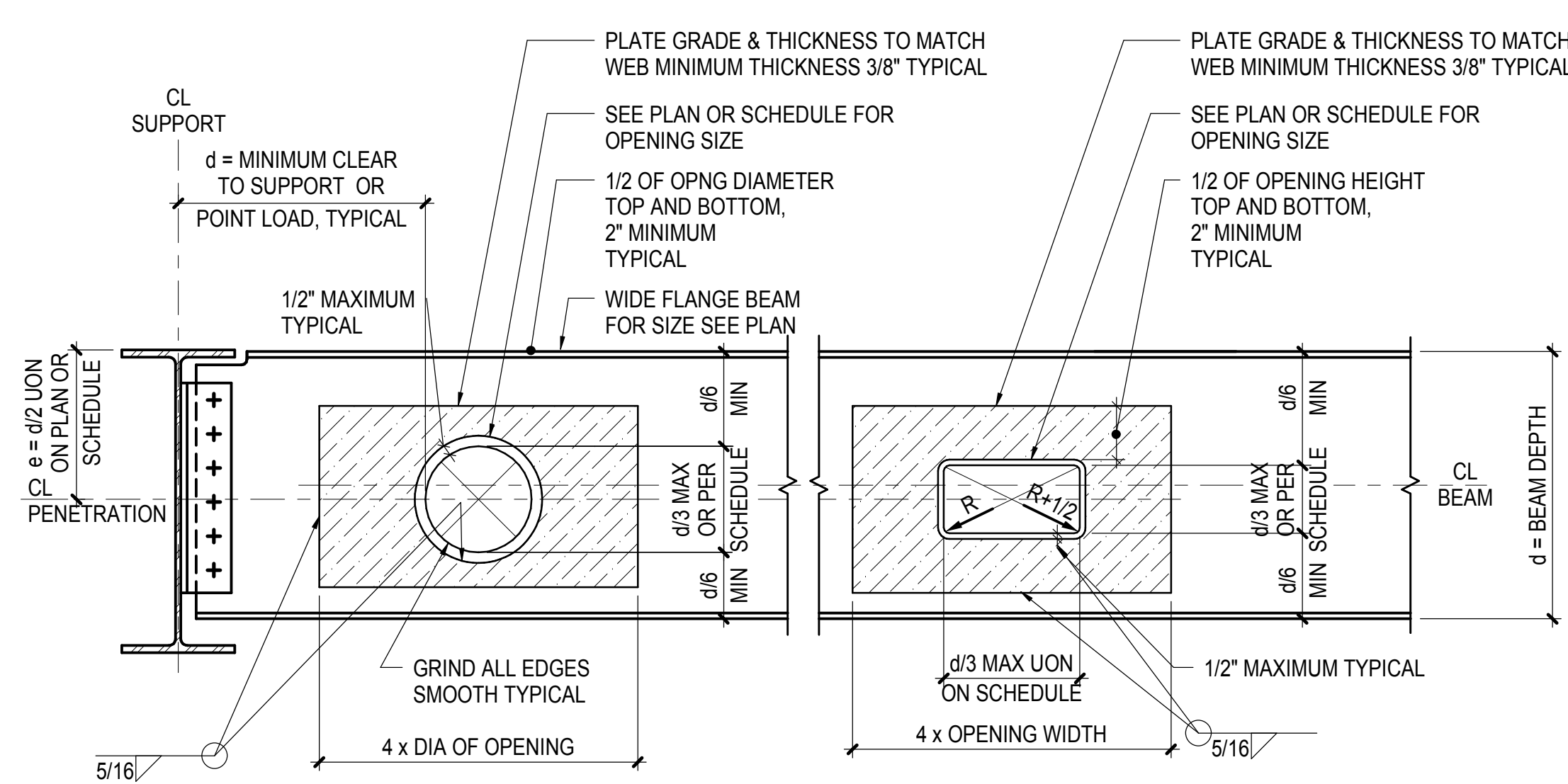
**A** CIRCULAR PENETRATION



**B** RECTANGULAR PENETRATION

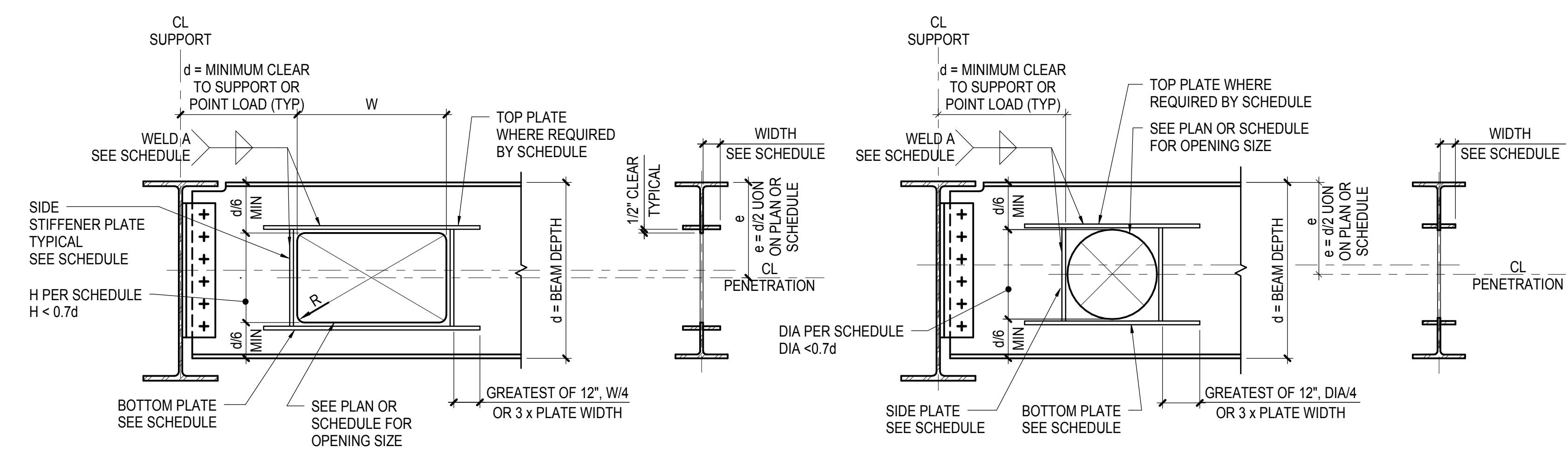
- NOTES:
1. PROVIDE REINFORCEMENT AS NOTED FOR OPENING TYPE. SEE FRAMING PLANS FOR OPENING TYPE.
  2. SEE STRUCTURAL DRAWINGS FOR PENETRATIONS. CONTRACTOR SHALL VERIFY QUANTITY, SIZE, AND LOCATION OF ALL PENETRATIONS WITH MEP DRAWINGS.
  3. ALL BEAM PENETRATIONS SHALL BE SHOWN ON THE SHOP DRAWINGS FOR REVIEW BY THE ARCHITECT/ENGINEER. NO PENETRATIONS SHALL BE MADE WITHOUT PRIOR REVIEW BY THE ARCHITECT AND WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
  4. R(MINIMUM) = 2 x WEB THICKNESS OR 5Ø, WHICHEVER IS GREATER.

**4** BEAM WEB PENETRATION TYPE U (UNREINFORCED)  
NOT TO SCALE



- NOTES:
1. PROVIDE REINFORCEMENT AS NOTED FOR OPENING TYPE. SEE FRAMING PLANS FOR OPENING TYPE.
  2. SEE STRUCTURAL DRAWINGS FOR PENETRATIONS. CONTRACTOR SHALL VERIFY QUANTITY, SIZE, AND LOCATION OF ALL PENETRATIONS WITH MEP DRAWINGS.
  3. ALL BEAM PENETRATIONS SHALL BE SHOWN ON THE SHOP DRAWINGS FOR REVIEW BY THE DESIGN PROFESSIONALS. NO PENETRATIONS SHALL BE MADE WITHOUT PRIOR REVIEW BY THE ARCHITECT AND WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
  4. R(MINIMUM) = 2 x WEB THICKNESS OR 5Ø, WHICHEVER IS GREATER.  
R = RADIUS OF OPENING  
R-1/2 = RADIUS OF REINFORCEMENT PLATE

**5** BEAM WEB PENETRATIONS TYPE D (WEB DOUBLER PLATE REINFORCEMENT)  
NOT TO SCALE



**A** RECTANGULAR PENETRATION

**B** CIRCULAR PENETRATION

- NOTES:
1. PROVIDE REINFORCEMENT AS NOTED FOR OPENING TYPE. SEE FRAMING PLANS FOR OPENING TYPE.
  2. SEE STRUCTURAL DRAWINGS FOR PENETRATIONS. CONTRACTOR SHALL VERIFY QUANTITY, SIZE, AND LOCATION OF ALL PENETRATIONS WITH MEP DRAWINGS.
  3. ALL BEAM PENETRATIONS SHALL BE SHOWN ON THE SHOP DRAWINGS FOR REVIEW BY THE ARCHITECT/ENGINEER. NO PENETRATIONS SHALL BE MADE WITHOUT PRIOR REVIEW BY THE ARCHITECT AND WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
  4. R(MINIMUM) = 2 x WEB THICKNESS OR 5Ø, WHICHEVER IS GREATER.

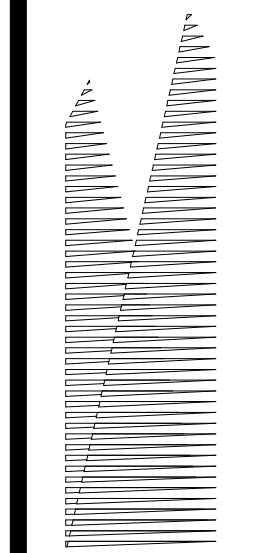
**6** BEAM WEB PENETRATIONS TYPE S (STIFFENER REINFORCEMENT)  
NOT TO SCALE

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T PLATFORM SUBMISSION	
Δ D1-02 PHASE I STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ D1-01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE I FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
NYC Description	Site









Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Officed Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

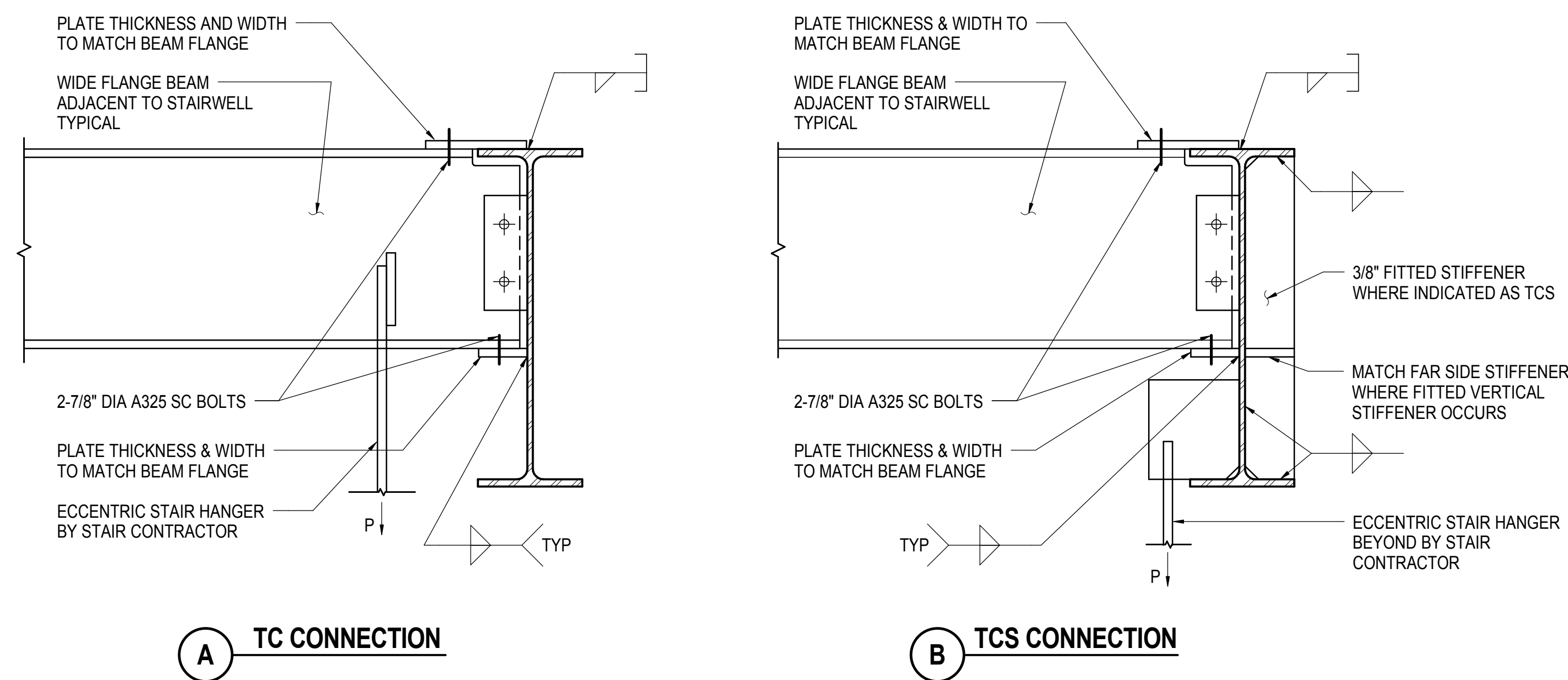
Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

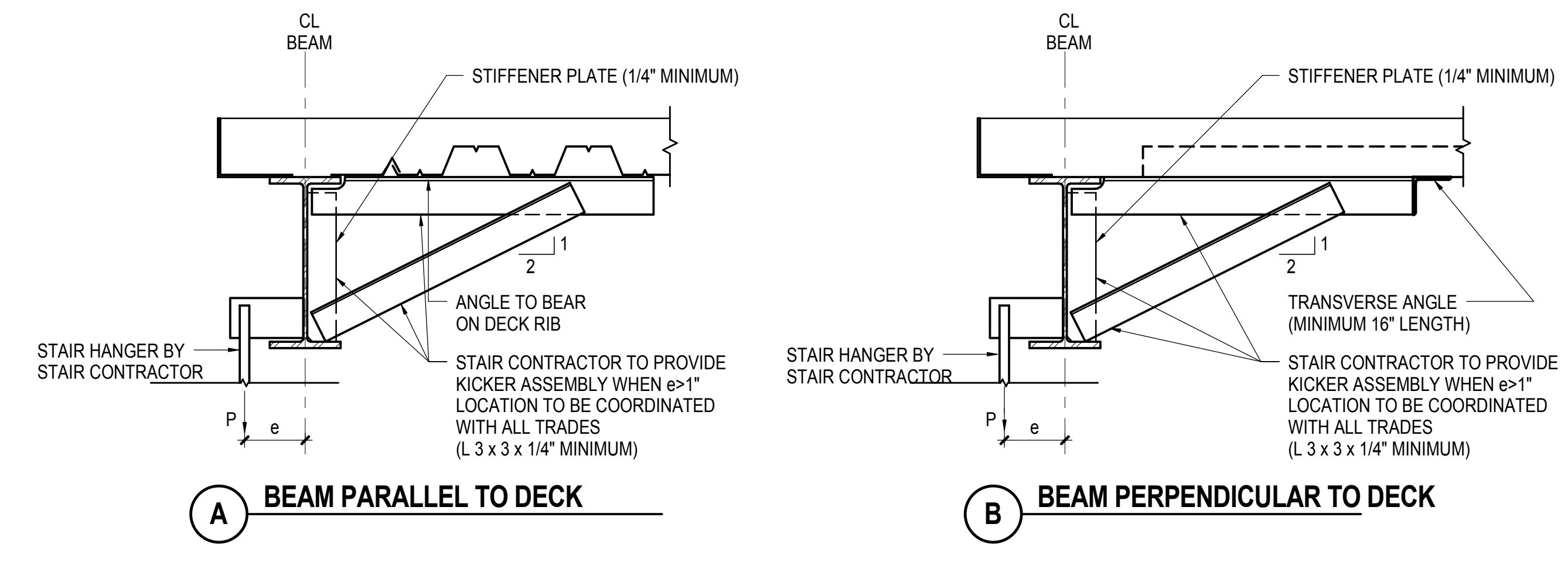
LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



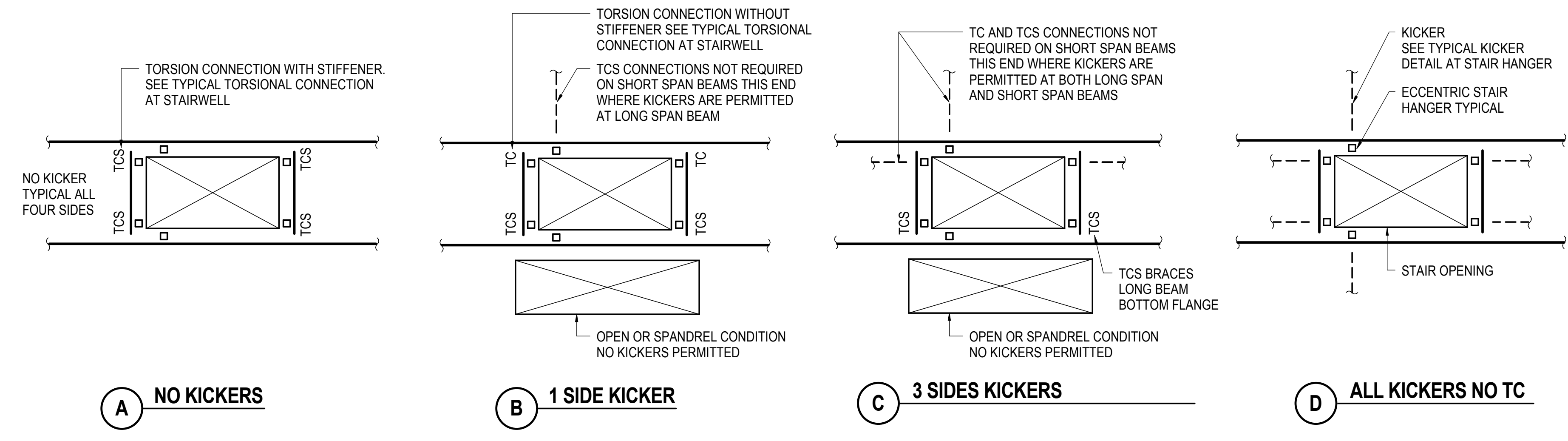
- NOTES:**
- SEE TYPICAL PLAN DETAILS FOR STAIRWELLS
  - SUBMIT SHOP DRAWINGS THAT SHOW THE MAGNITUDES, DIRECTIONS, LOCATIONS, AND CONNECTION CONDITIONS OF ALL LOADS IMPOSED ON THE SUPPORTING STRUCTURE BY STAIR CONTRACTOR

**1 TYPICAL TORSIONAL CONNECTION AT STAIRWELL / TC AND TCS LOCATIONS**  
NOT TO SCALE



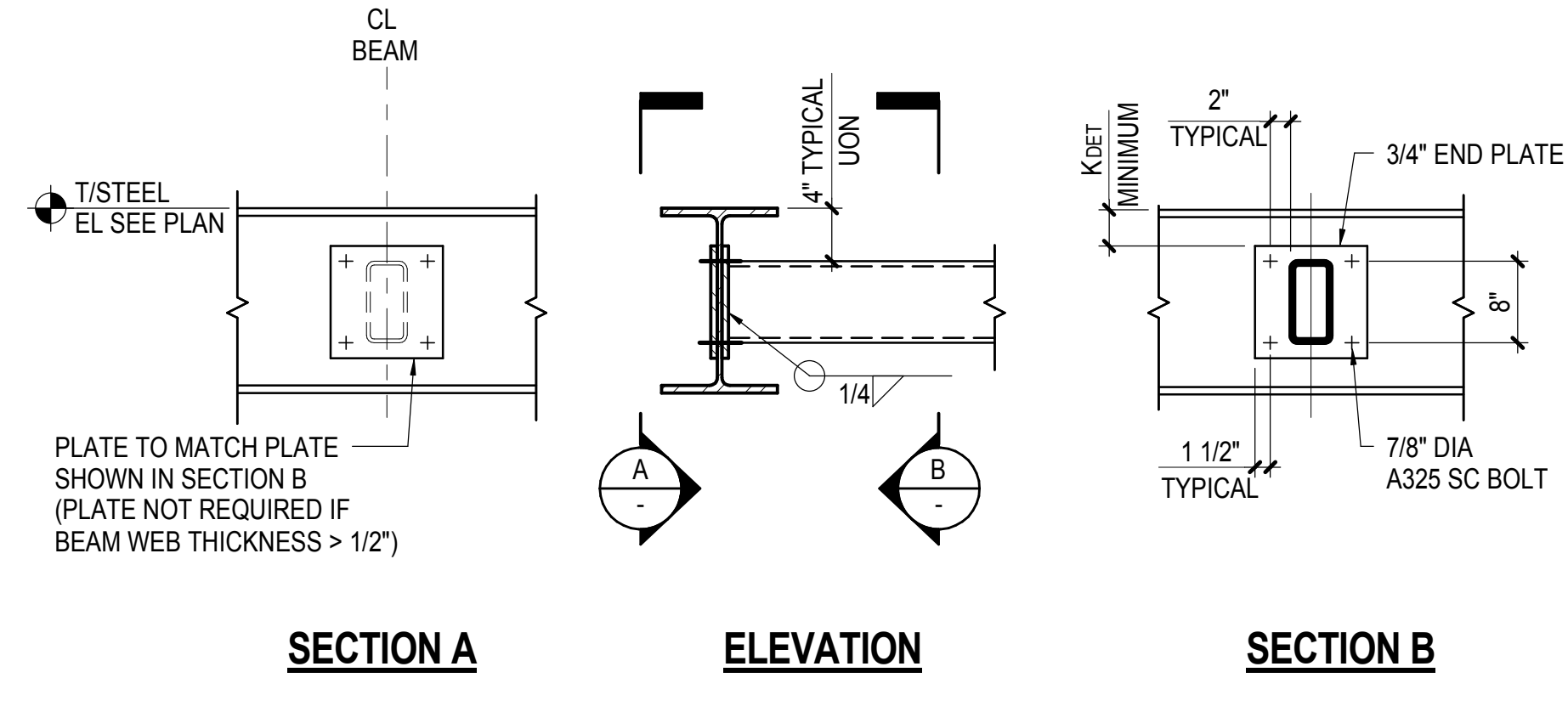
- NOTES:**
- SEE TYPICAL PLAN DETAILS FOR STAIRWELLS
  - SUBMIT SHOP DRAWINGS THAT SHOW THE MAGNITUDES, DIRECTIONS, LOCATIONS, AND CONNECTION CONDITIONS OF ALL LOADS IMPOSED ON THE SUPPORTING STRUCTURE BY STAIR CONTRACTOR
  - CONNECT ANGLES TO STEEL DECK AS REQUIRED FOR ERECTION

**2 TYPICAL KICKER DETAIL AT STAIR HANGER**  
NOT TO SCALE



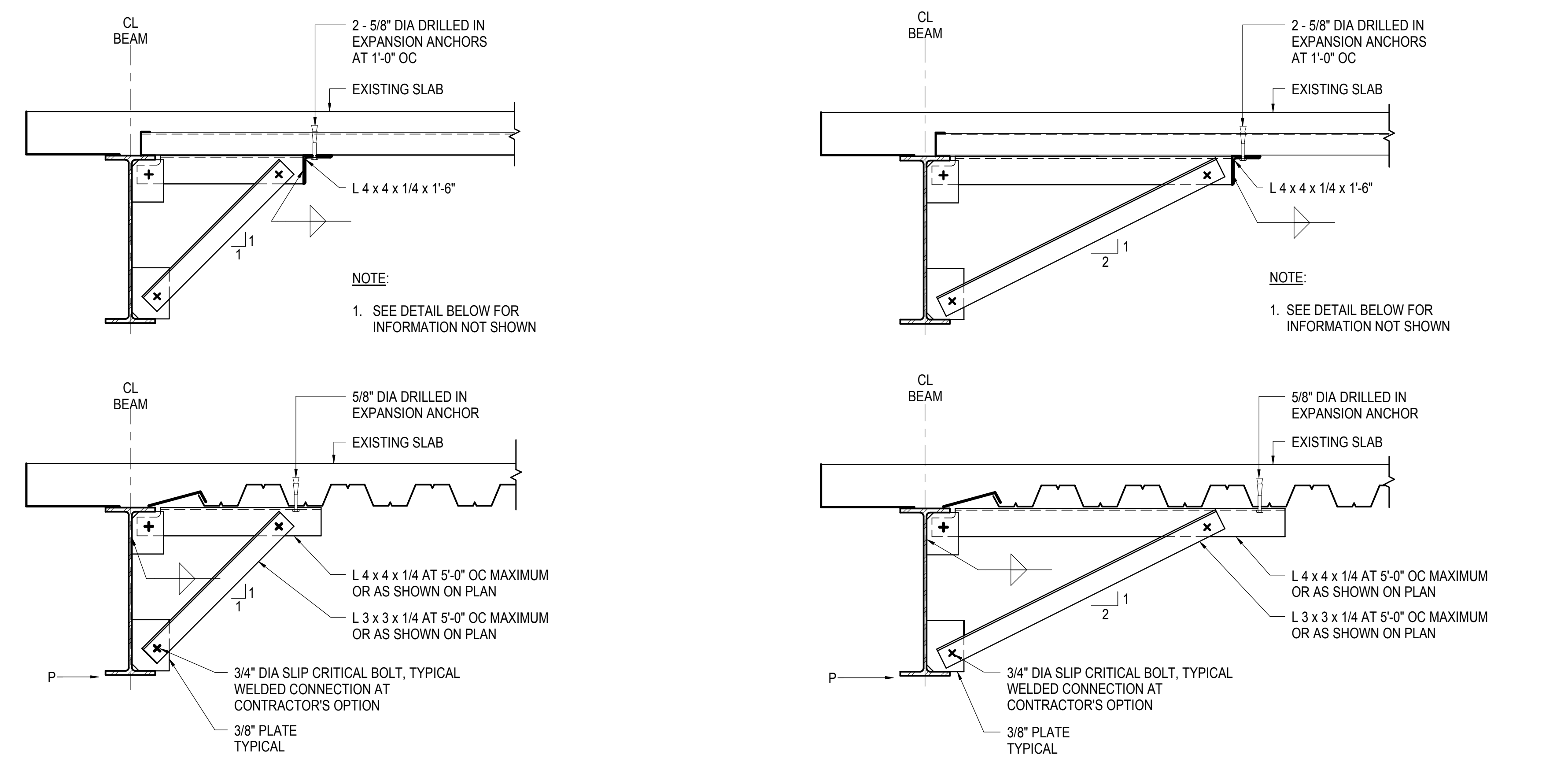
- NOTES:**
- BID PRICE SHALL ASSUME THAT THIS DETAIL APPLIES UNLESS COORDINATED BETWEEN CONTRACTOR AND STAIR SUPPLIER
  - DETAIL APPLIES WHERE KICKERS ARE NOT PERMITTED DUE TO CONFLICTS SUCH AS MEP REQUIREMENTS
- NOTE:**
- REFER TO TYPICAL TORSIONAL CONNECTION AT STAIRWELL AND TYPICAL KICKER DETAIL AT STAIR HANGER

**3 TYPICAL PLAN DETAILS FOR STAIRWELLS**  
NOT TO SCALE



- NOTES:**
- SEE PLAN FOR DIVIDER BEAM SIZE
  - ELEVATOR DIVIDER BEAM LOCATIONS TO BE COORDINATED BY CONTRACTOR

**4 TYPICAL ELEVATOR DIVIDER BEAM DETAIL**  
NOT TO SCALE



**5 TYPICAL KICKER DETAIL (P 2,000 LBS)**  
NOT TO SCALE

**6 TYPICAL KICKER DETAIL (2,000 LBS= P 5,000LBS)**  
NOT TO SCALE

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL	11/22/2013
M&T PLATFORM SUBMISSION	
A - DR-02 PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
A - DR-01 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE 1 FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
Rev	Description

Rev Plot

Date: 12/14/2012  
Project No: N11330.00  
Drawing Title: **HYE -PL -S-713.00**  
**TYPICAL STEEL BEAM DETAILS IV**

Author: **Damian Titus**

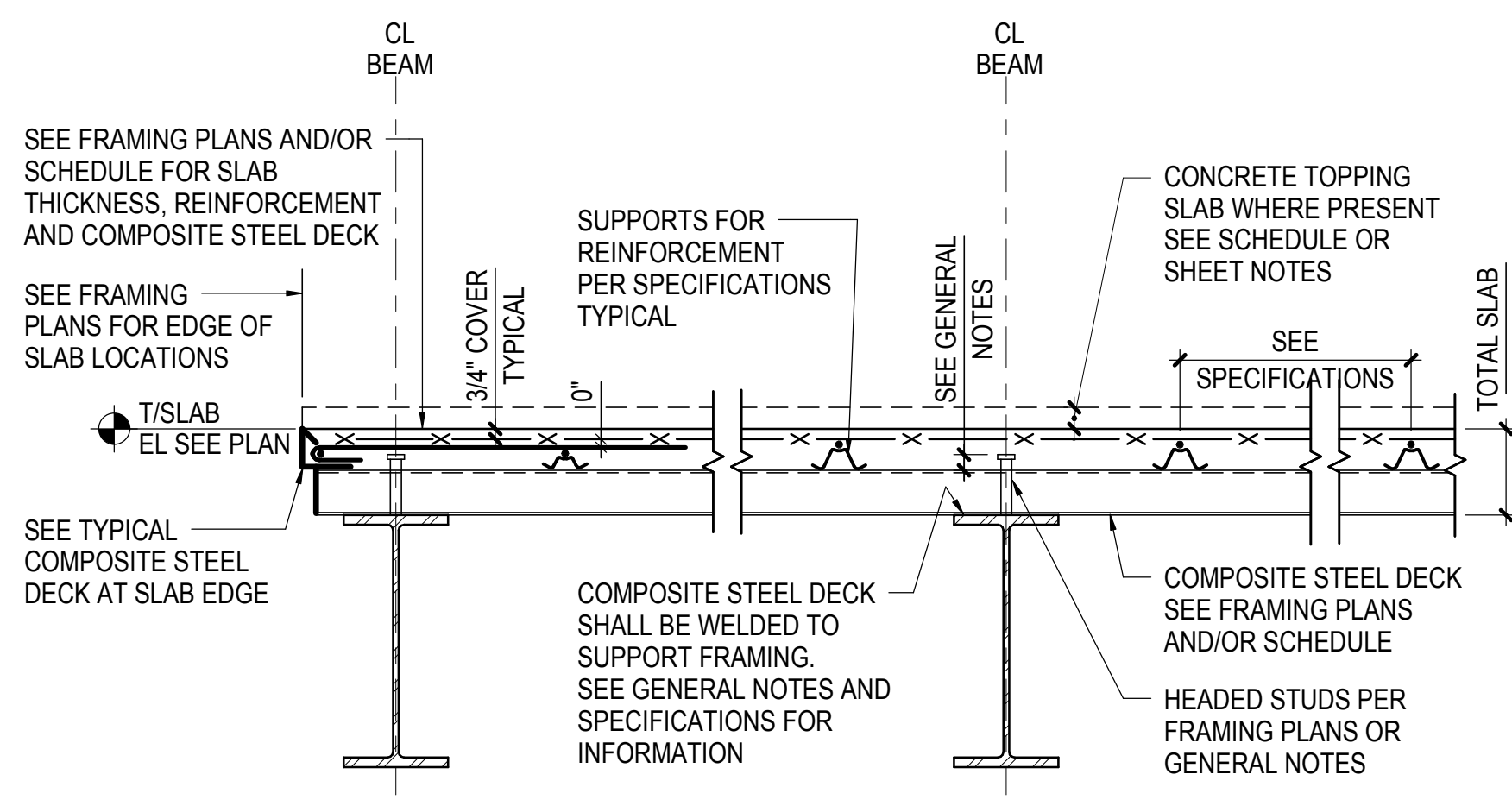
APPROVED  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub

Drawing Number / Revision Drawing Number  
**S-713.00**

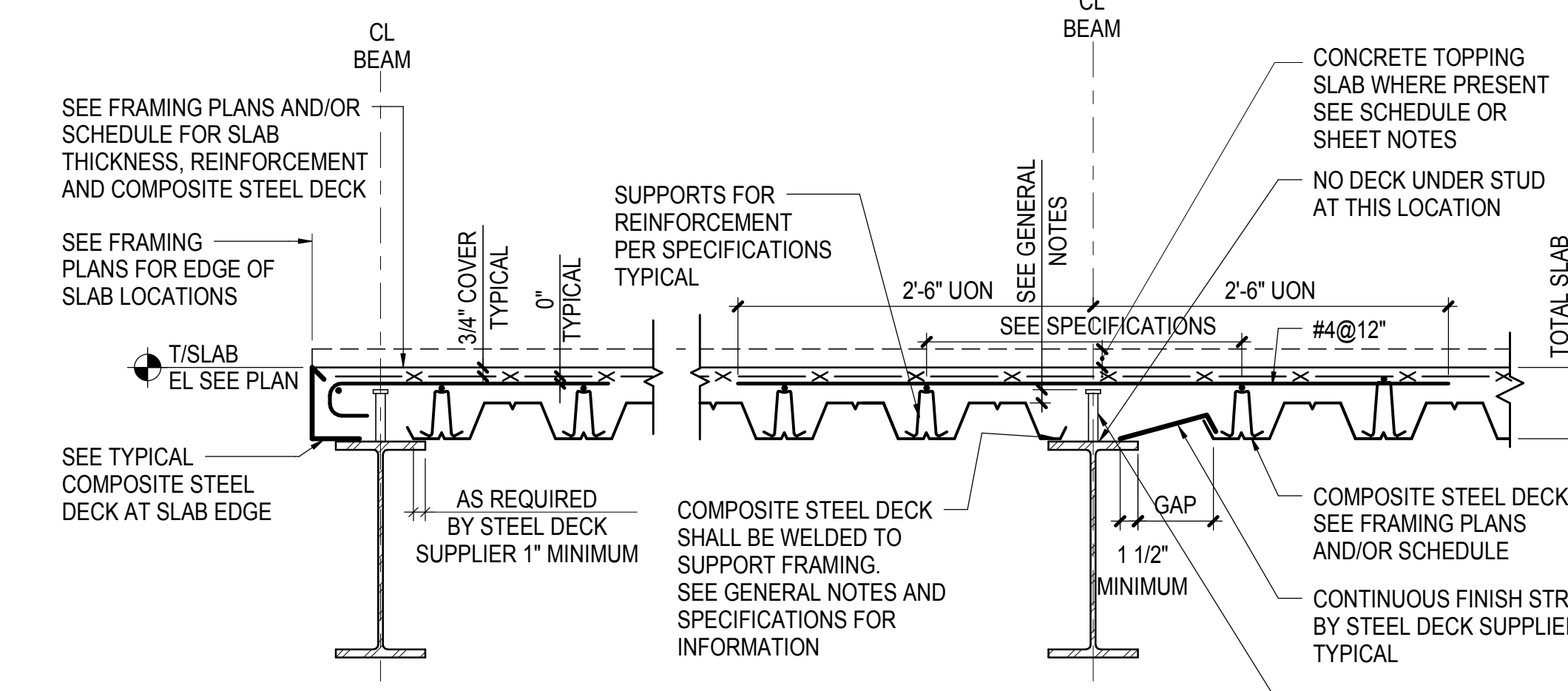
SHEET 175 OF 201

S-713.00  
11/22/2013 1:15:30 PM  
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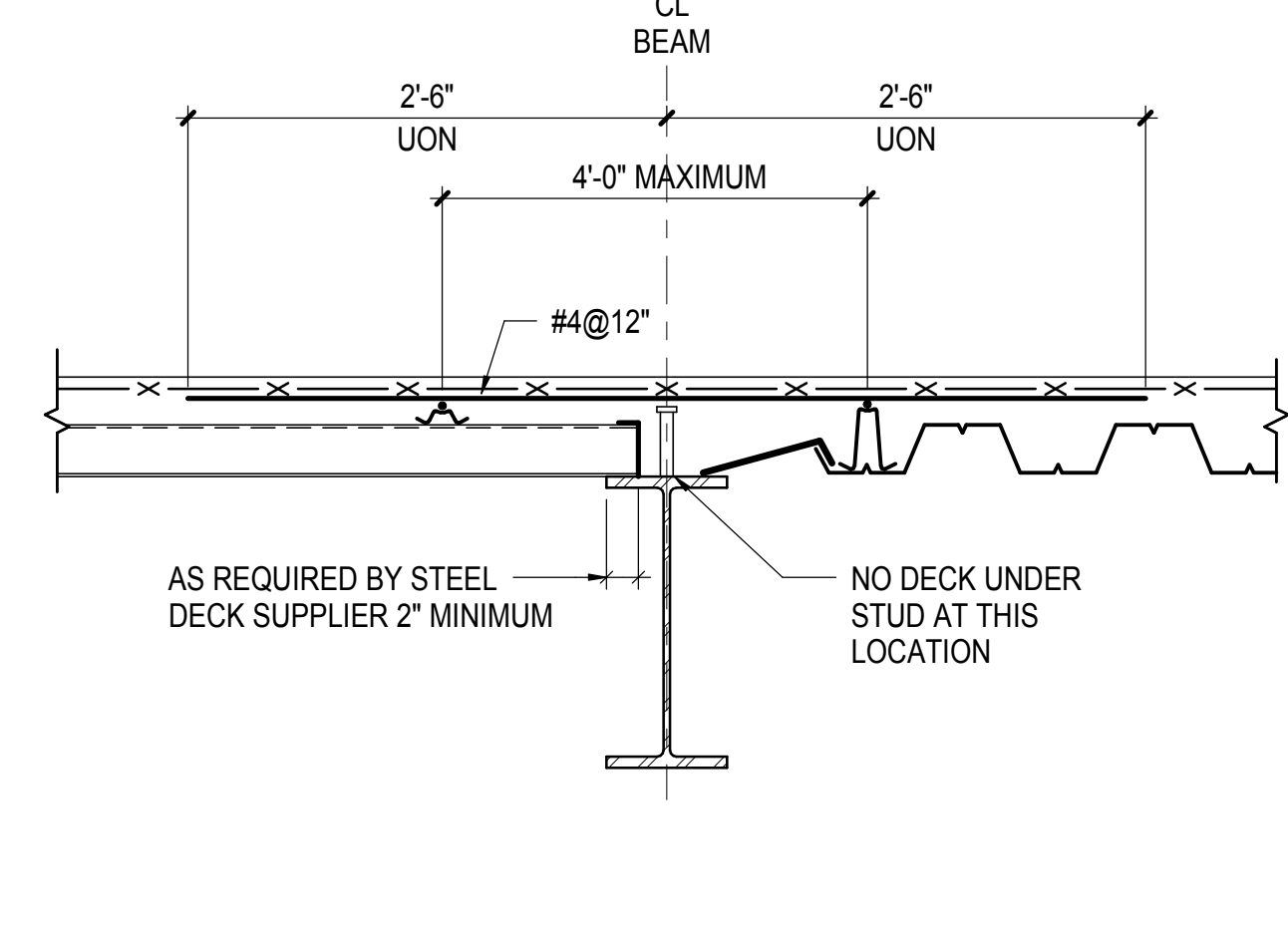




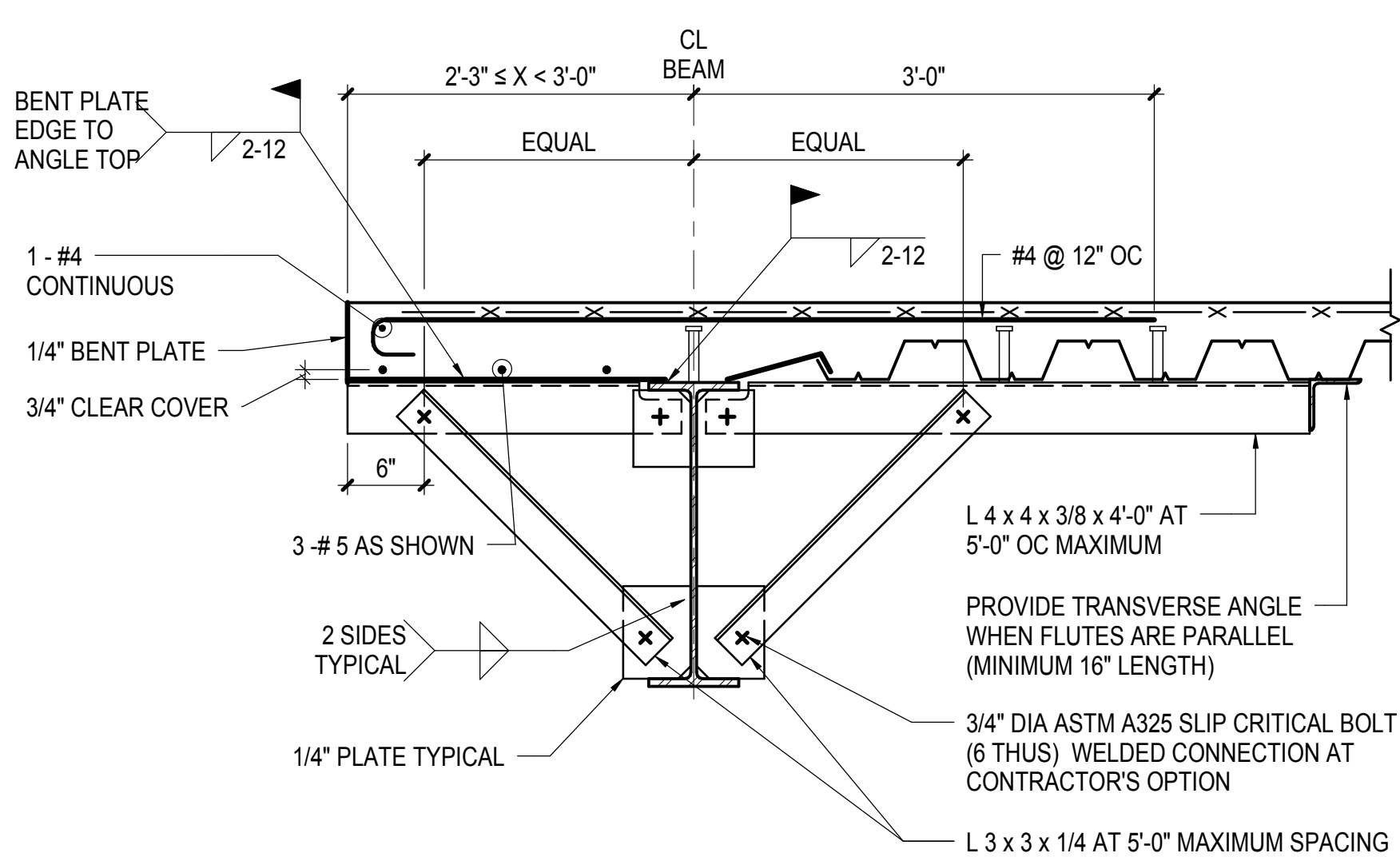
**1 TYPICAL COMPOSITE STEEL DECK SPAN PERPENDICULAR TO BEAM**  
NOT TO SCALE



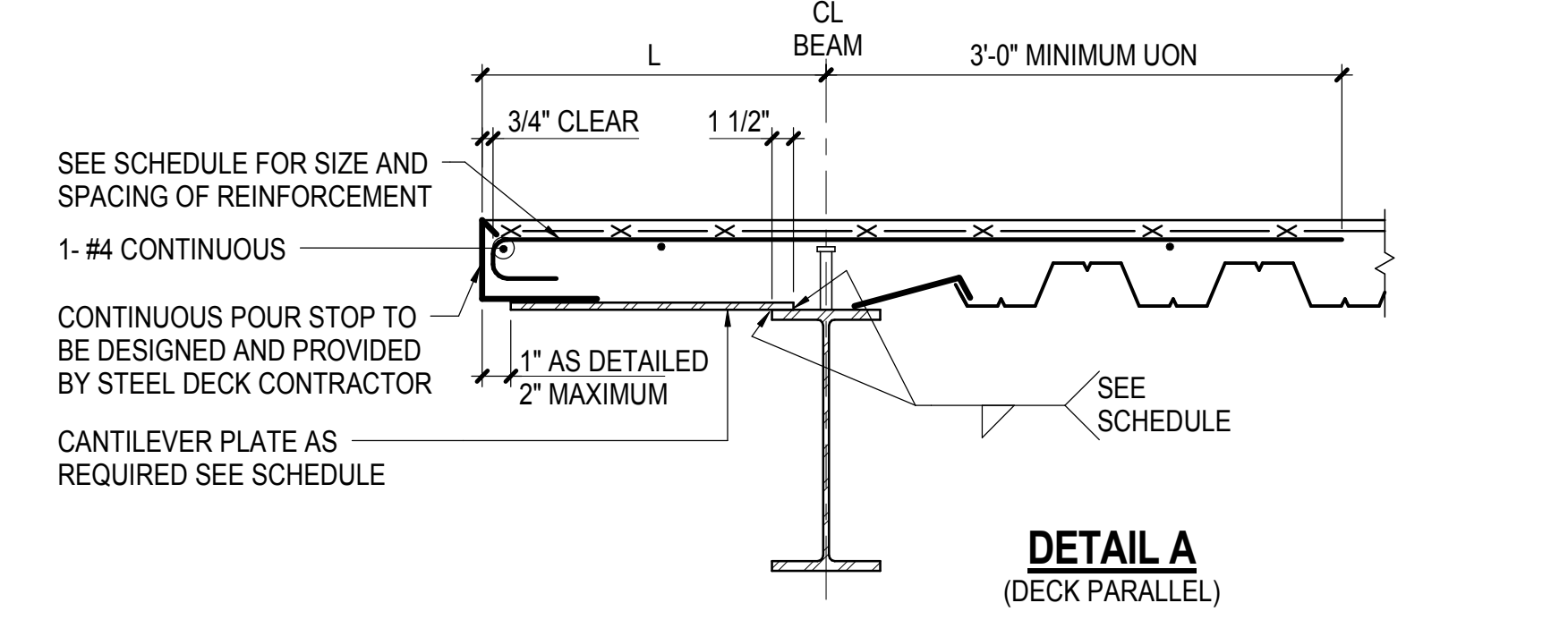
**2 TYPICAL COMPOSITE STEEL DECK SPAN PARALLEL TO BEAM**  
NOT TO SCALE



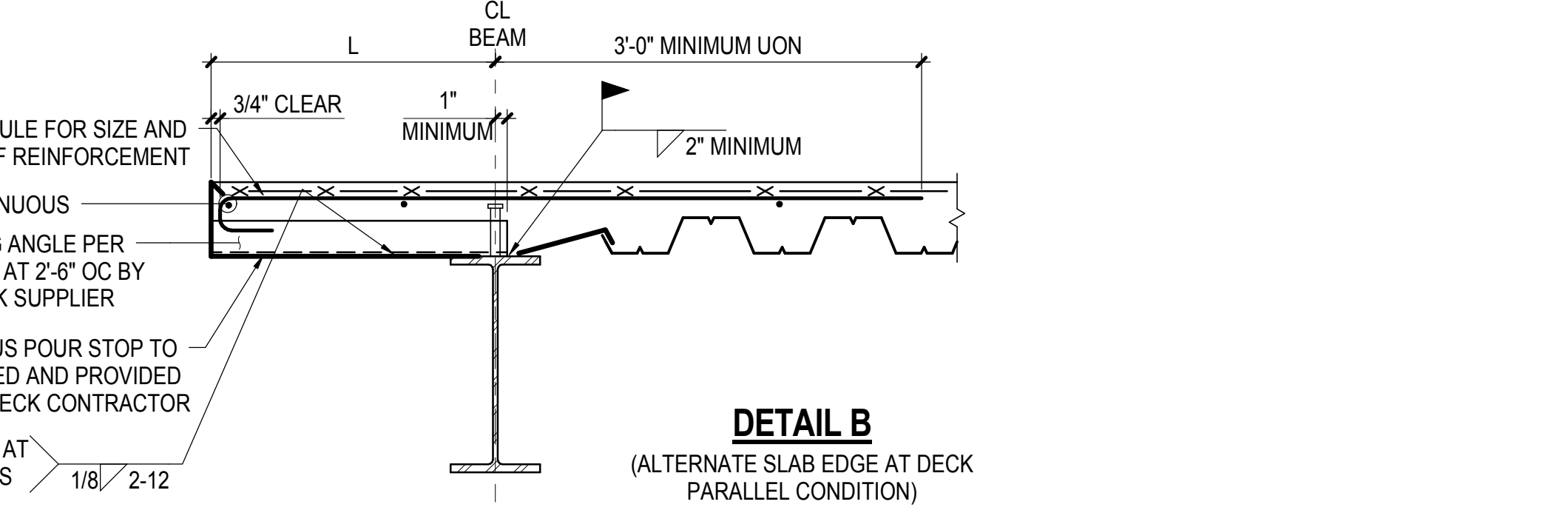
**3 TYPICAL COMPOSITE STEEL DECK AT CHANGE IN DECK DIRECTION**  
NOT TO SCALE



**4 TYPICAL SLAB EDGE OVER 2'-3" TO 3'-0"**  
NOT TO SCALE



**DETAIL A (DECK PARALLEL)**

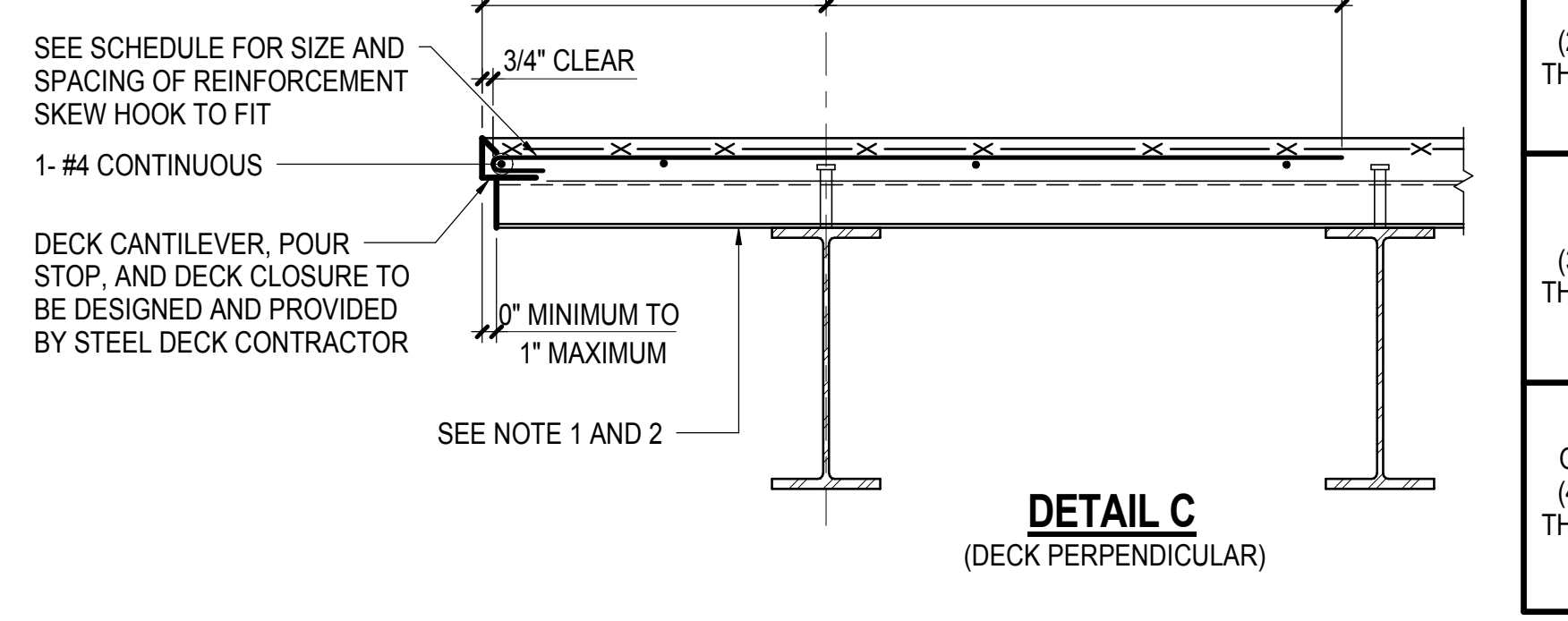


**DETAIL B (ALTERNATE SLAB EDGE AT DECK PARALLEL CONDITION)**

TOTAL SLAB THICKNESS (IN)	CANTILEVER SPAN L'	CANTILEVER REINFORCEMENT (SEE NOTES)	DETAIL A			DETAIL B
			PLATE THICKNESS (A36 MIN)	SIZE	SPACING	STIFFENING ANGLE
UP TO 5 1/2" (2 1/2" MIN CONCRETE THICKNESS OVER DECK)	2'-0" < L ≤ 2'-3"	#4@12"	1/2"	1/4	4-12	L3x3x1/4
	1'-5" < L ≤ 2'-0"	#4@12"	3/8"	3/16	3-12	L3x3x1/4
	7" < L ≤ 1'-5"	#4@12"	1/4"	3/16	3-12	L3x3x1/4
6 1/4" TO 7 1/2" (3 1/4" MIN CONCRETE THICKNESS OVER DECK)	1'-11" < L ≤ 2'-3"	#4@12"	1/2"	1/4	4-12	L3x3x1/4
	1'-4" < L ≤ 1'-11"	#4@12"	3/8"	3/16	3-12	L3x3x1/4
	6" < L ≤ 1'-4"	#4@12"	1/4"	3/16	3-12	L3x3x1/4
OVER 7 1/2" UP TO 11" (4 1/2" MIN CONCRETE THICKNESS OVER DECK)	1'-9" < L ≤ 2'-3"	#4@10"	1/2"	1/4	4-12	L3x3x1/4
	1'-2" < L ≤ 1'-9"	#4@10"	3/8"	3/16	3-12	L3x3x1/4
	6" < L ≤ 1'-2"	#4@10"	1/4"	3/16	3-12	L3x3x1/4
	≤ 6"	-	NOTE 2	-	-	NOTE 2
	≤ 6"	-	NOTE 2	-	-	NOTE 2

**SCHEDULE NOTES:**

- SEE ADDITIONAL DETAILS FOR REINF. AT CURTAIN WALL SUPPORT AND AT CORNERS
- POUR STOP TO BE DESIGNED AND PROVIDED BY STEEL DECK CONTRACTOR (14 GAGE MINIMUM)
- CANTILEVER REINFORCEMENT IS IN ADDITION TO ANY REINFORCEMENT SHOWN IN NOTES, ON PLAN OR ON SLAB SCHEDULES
- SLAB EDGE SERVICE LOADS NOT TO EXCEED 400 PLF

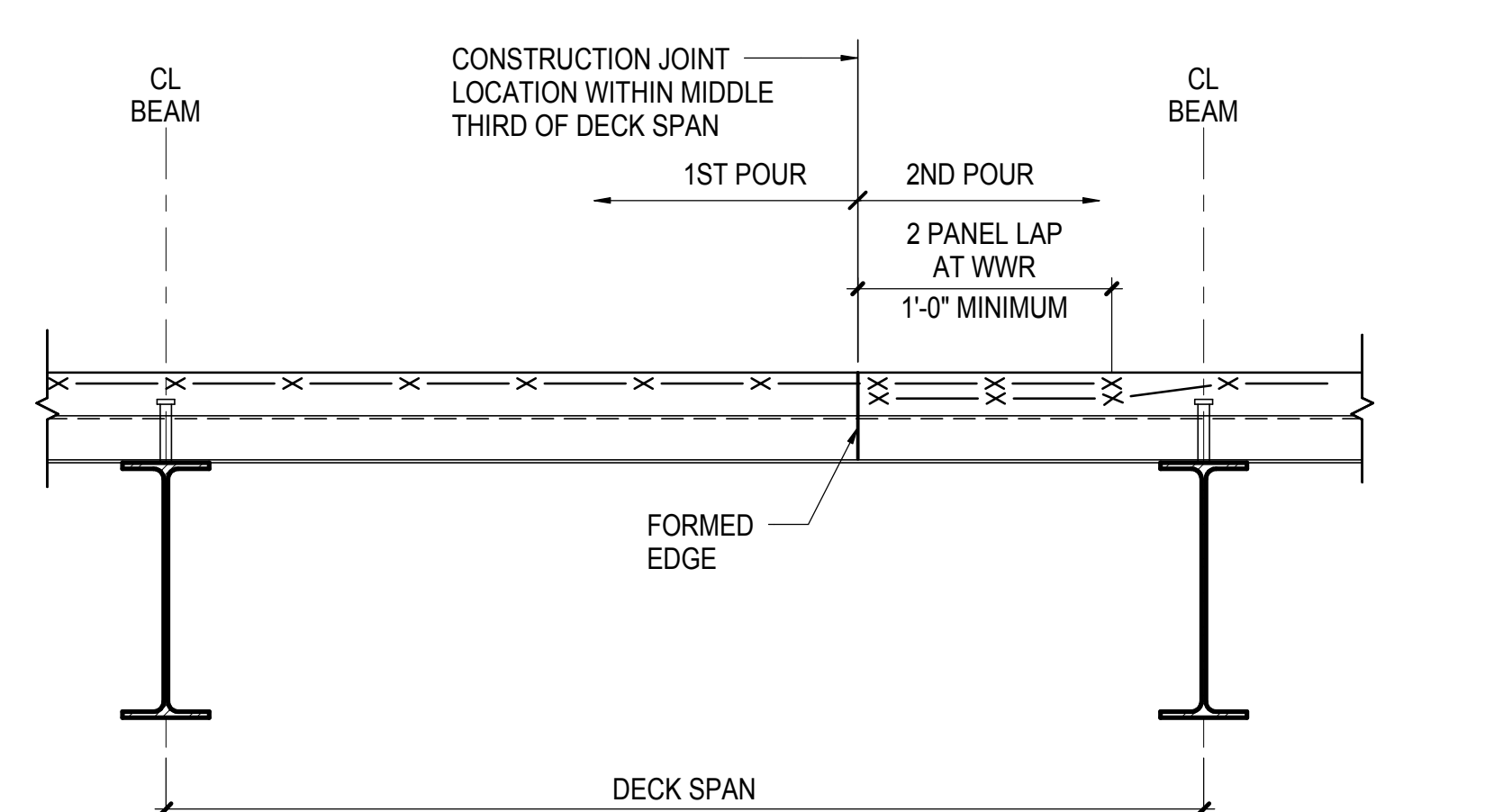


**DETAIL C (DECK PERPENDICULAR)**

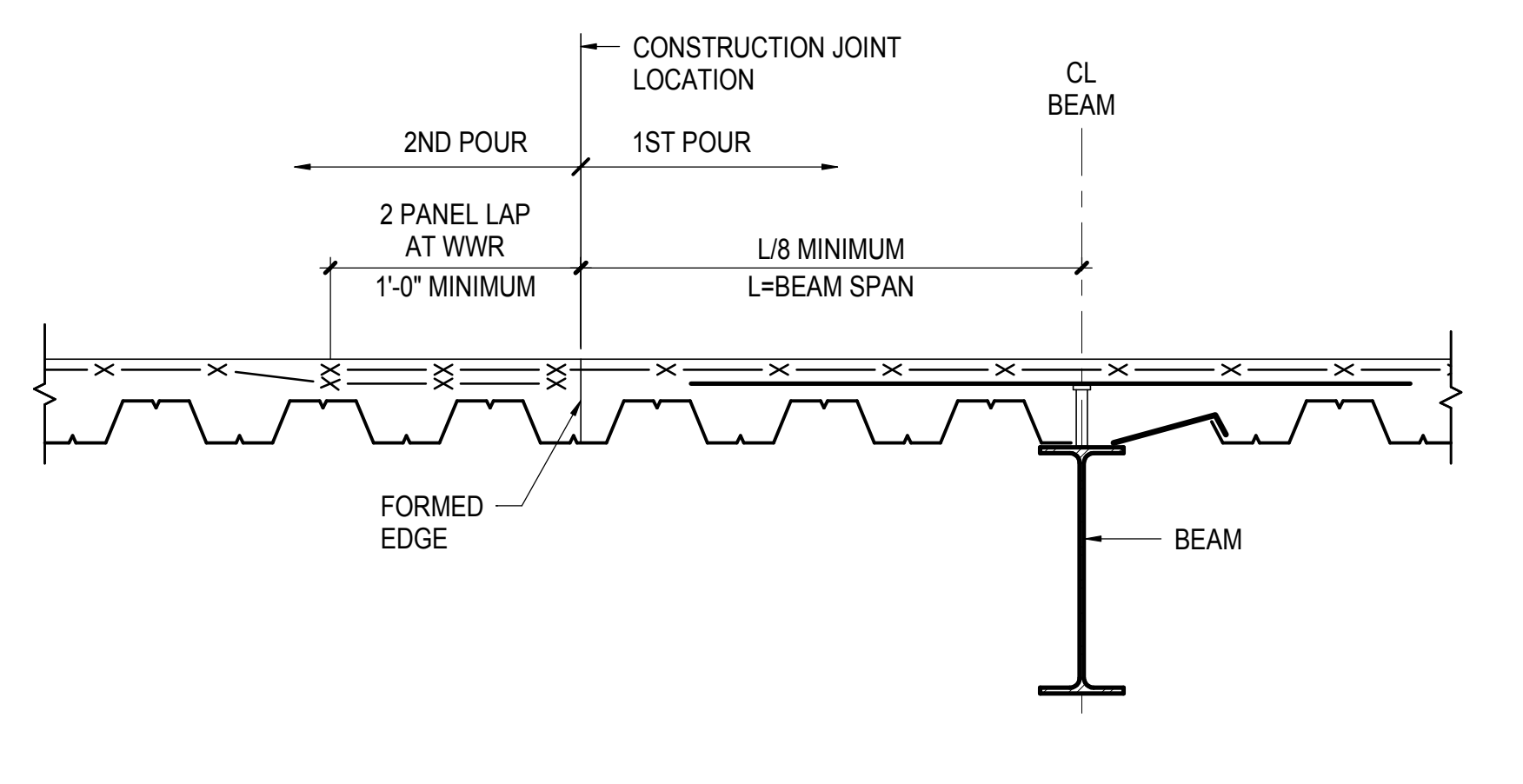
**NOTES:**

- WHERE BLOCK OUT OR EMBEDDED ITEM IS LOCATED AT THE SLAB EDGE, DETAIL C IS NOT PERMITTED USE DETAIL A OR DETAIL B FOR CANTILEVERED SLAB EDGE
- WHERE DECK CANTILEVER (DETAIL C) IS NOT CAPABLE OF SUPPORTING REQUIRED CANTILEVER SPAN L', USE DETAIL A OR DETAIL B SIMILAR FOR CANTILEVER SLAB EDGE
- AT CONTRACTOR'S OPTION SINGLE BENT PL. (OR EQUIV ANGLE) MAY BE USED PROVIDED IT IS FIELD INSTALLED AND ACCOMMODATES SLAB EDGE TOLERANCES

**5 TYPICAL COMPOSITE STEEL DECK AT SLAB EDGE**  
NOT TO SCALE



**6 TYPICAL COMPOSITE STEEL DECK CONSTRUCTION JOINT - SPAN PERPENDICULAR TO BEAM**  
NOT TO SCALE

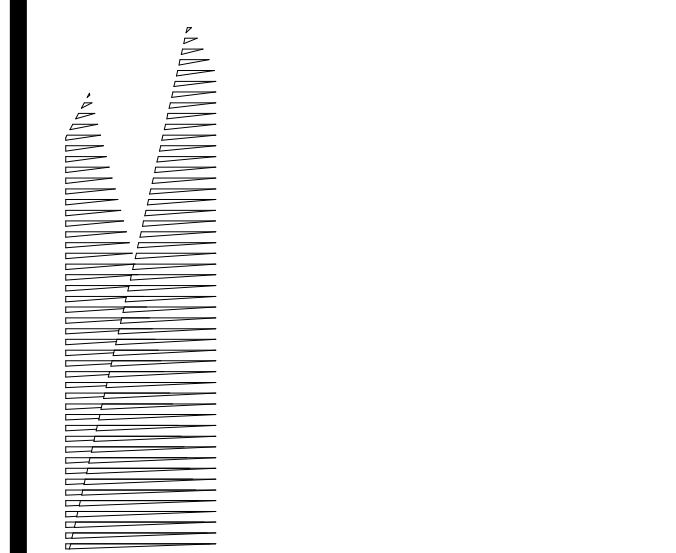


**7 TYPICAL COMPOSITE STEEL DECK CONSTRUCTION JOINT - SPAN PARALLEL TO BEAM**  
NOT TO SCALE









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60 Columbus Circle  
New York, NY 10023  
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Owner  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
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Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
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New York, NY 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
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Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
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New York, NY 10005  
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LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

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AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T - PLATFORM SUBMISSION	
Δ - DR-02 PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
Δ - DR-01 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE 1 FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
W - Description	Date

Rev. No.

Date: 12/14/2012  
Project No: N11330.00  
Author: [Signature]  
Sheet Number: [Blank]

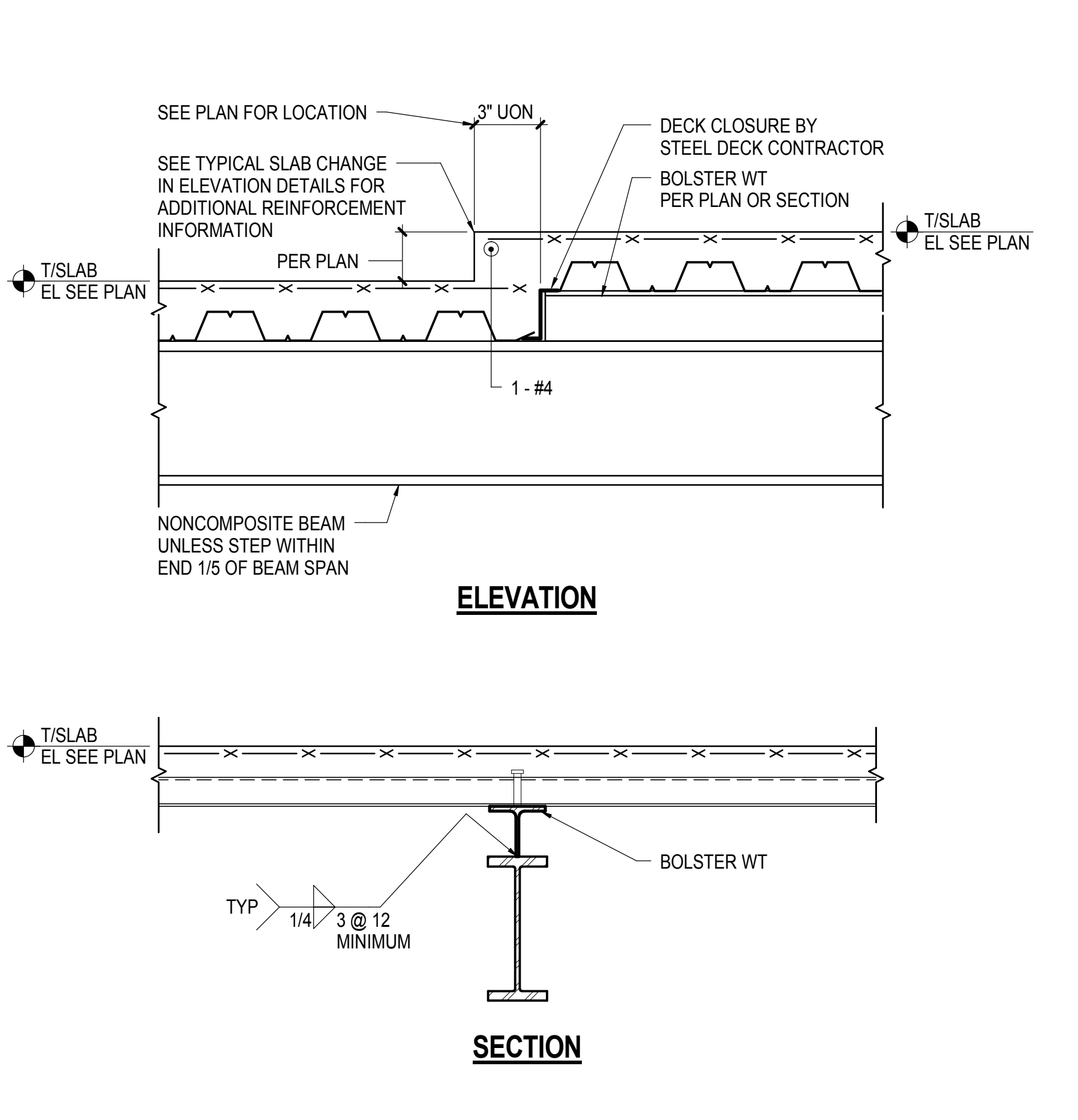
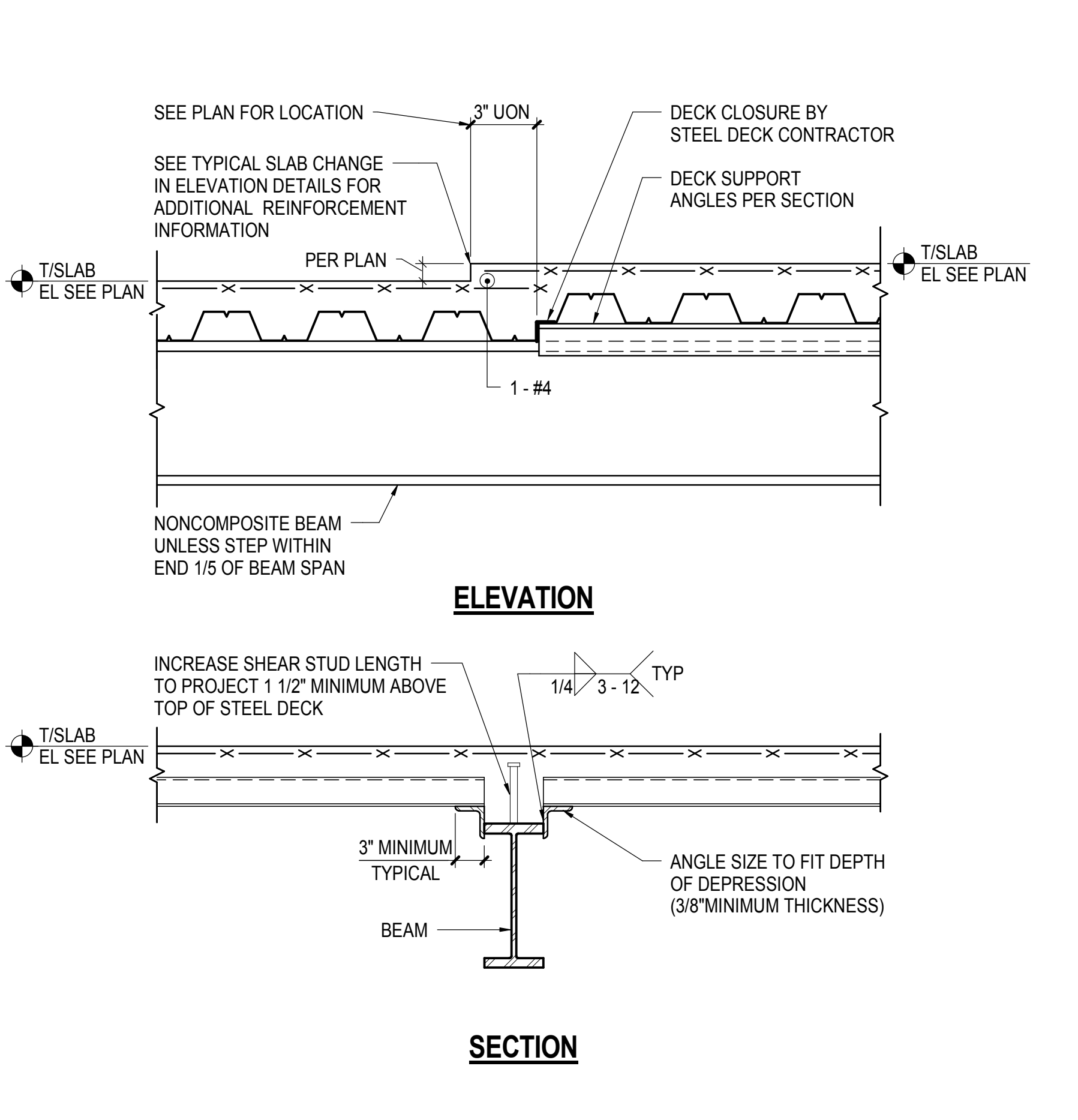
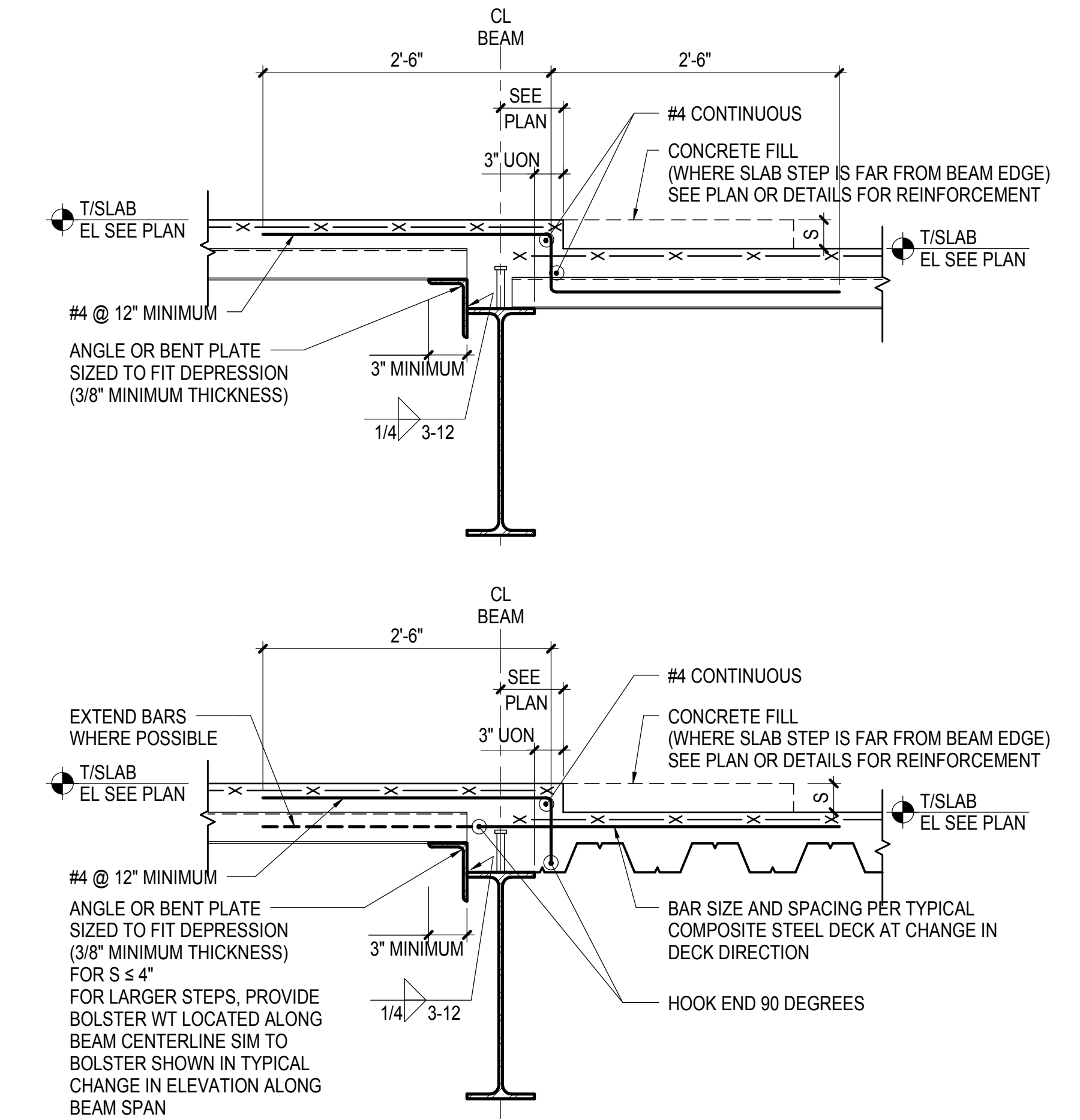
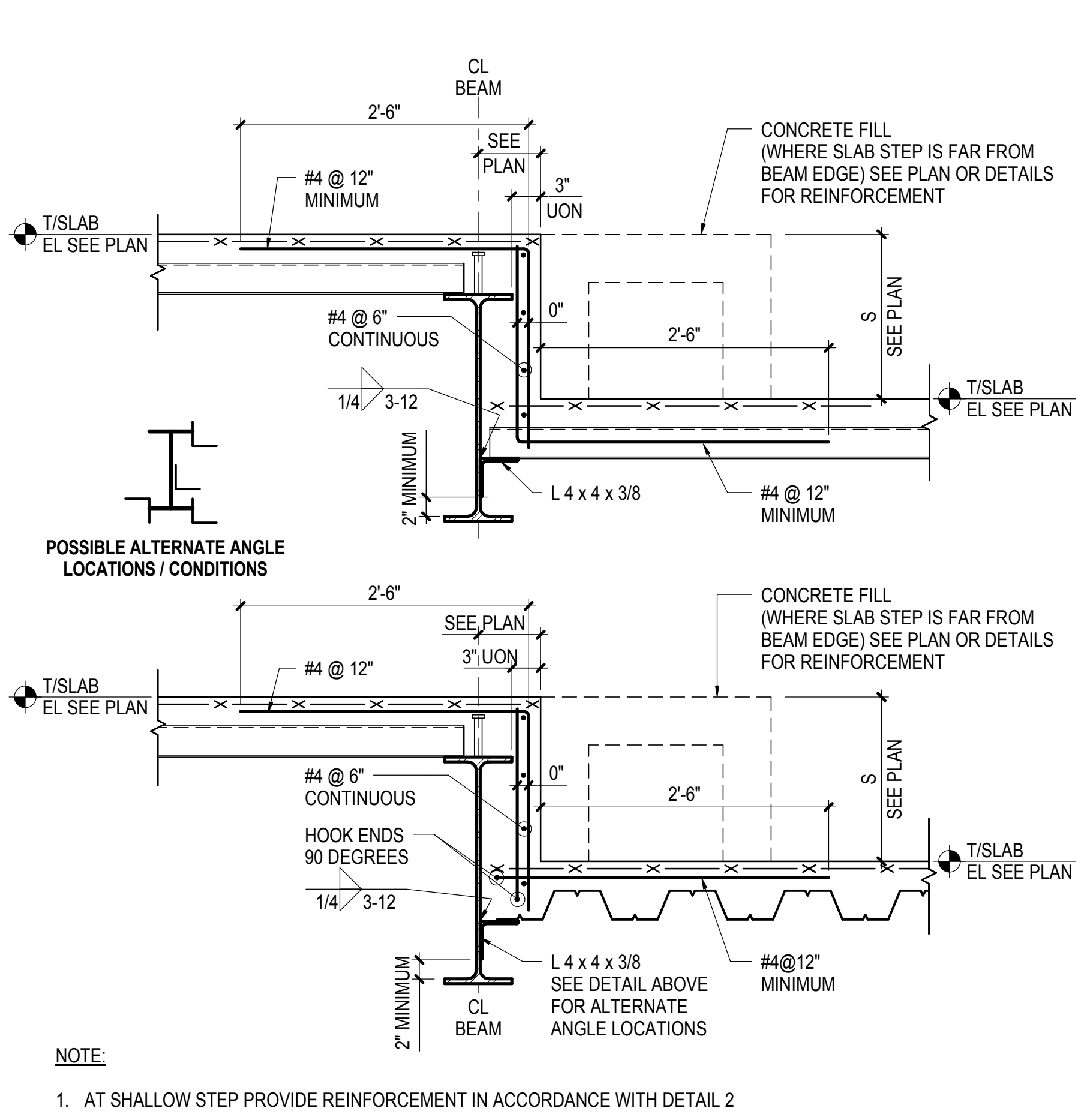
**HYE - PL - S-722.00**

**TYPICAL COMPOSITE STEEL DECK DETAILS III**

Drawing Number / B/S/C/A/S Drawing Number

**S-722.00**

SHEET 178 OF 201

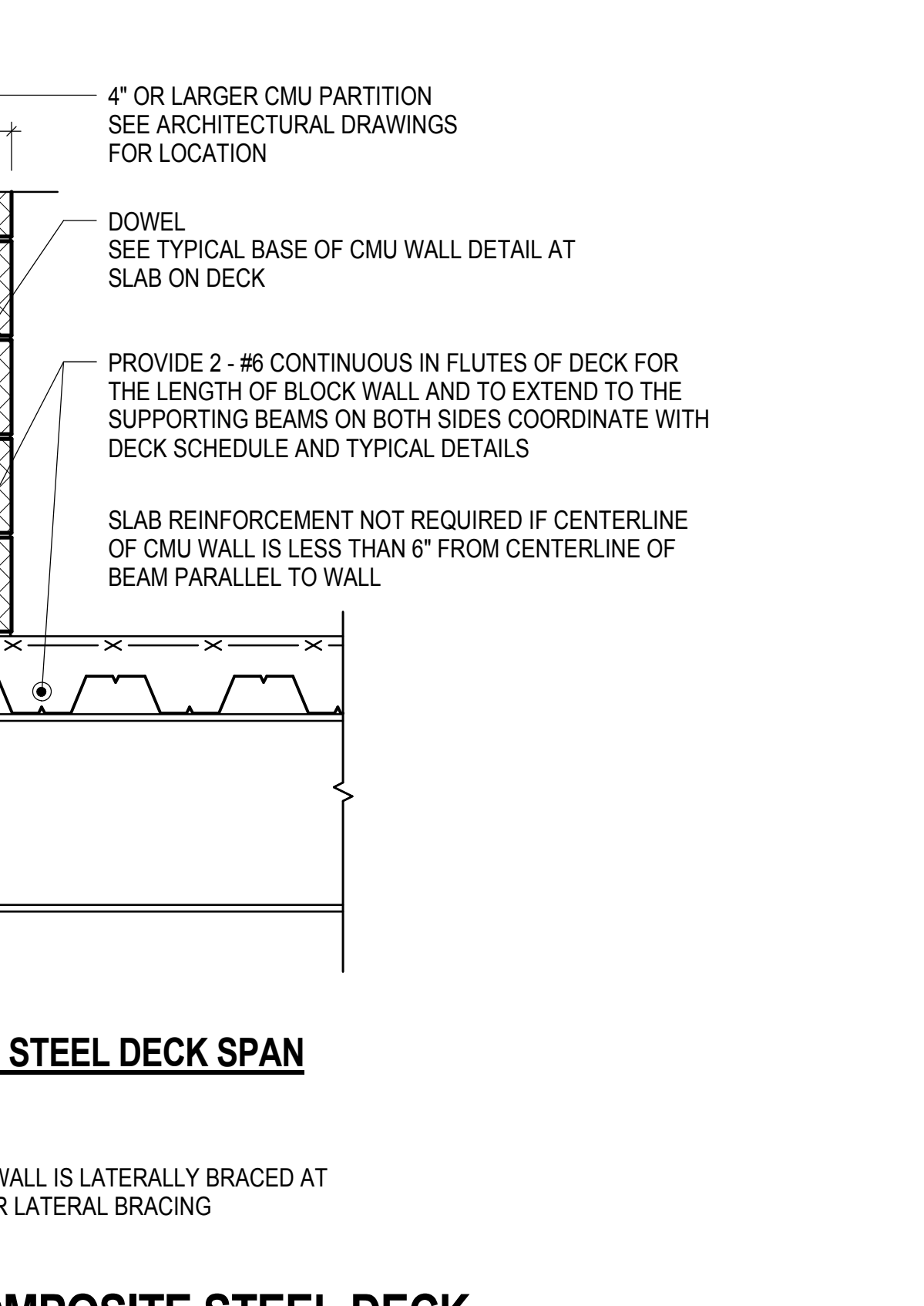
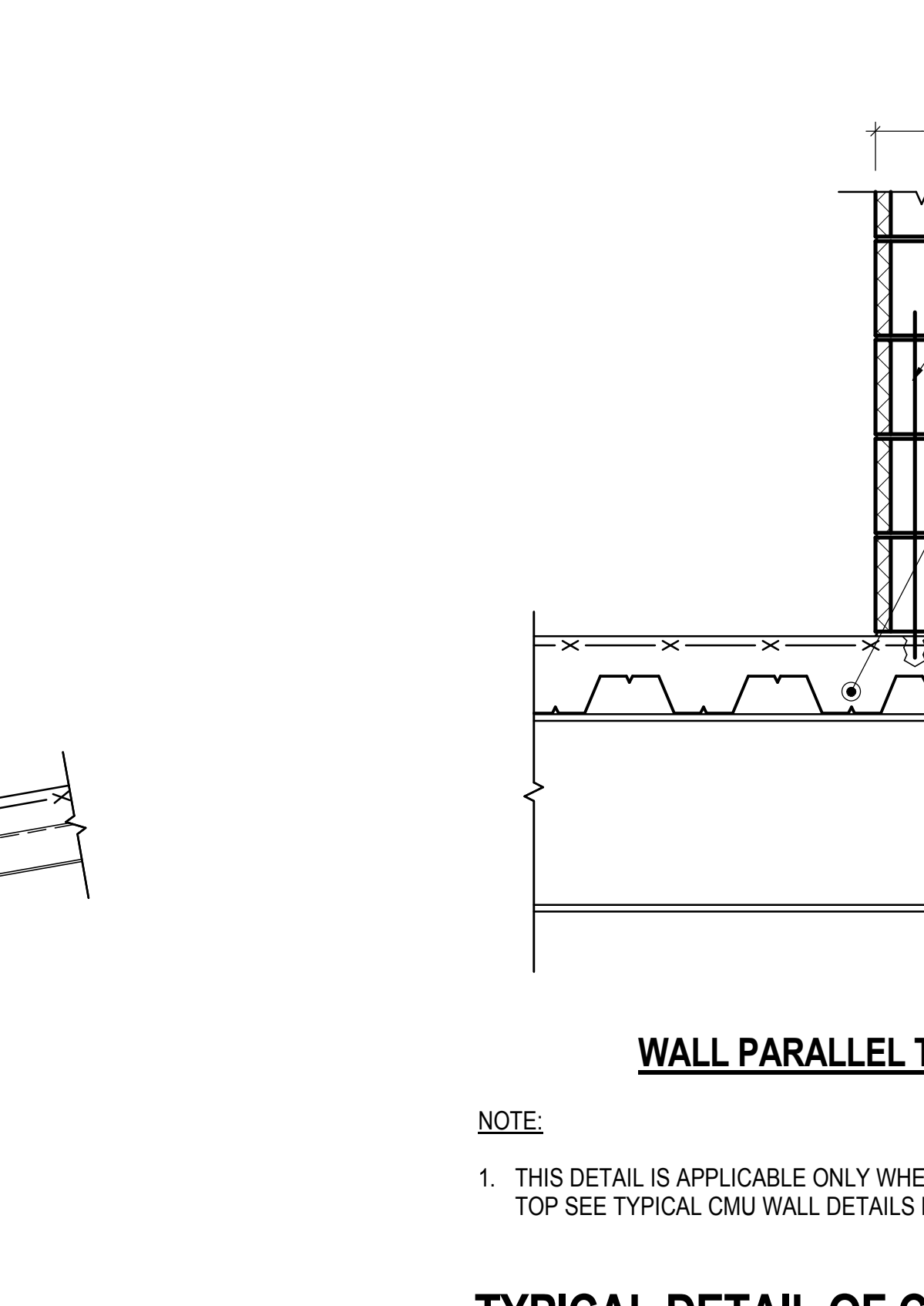
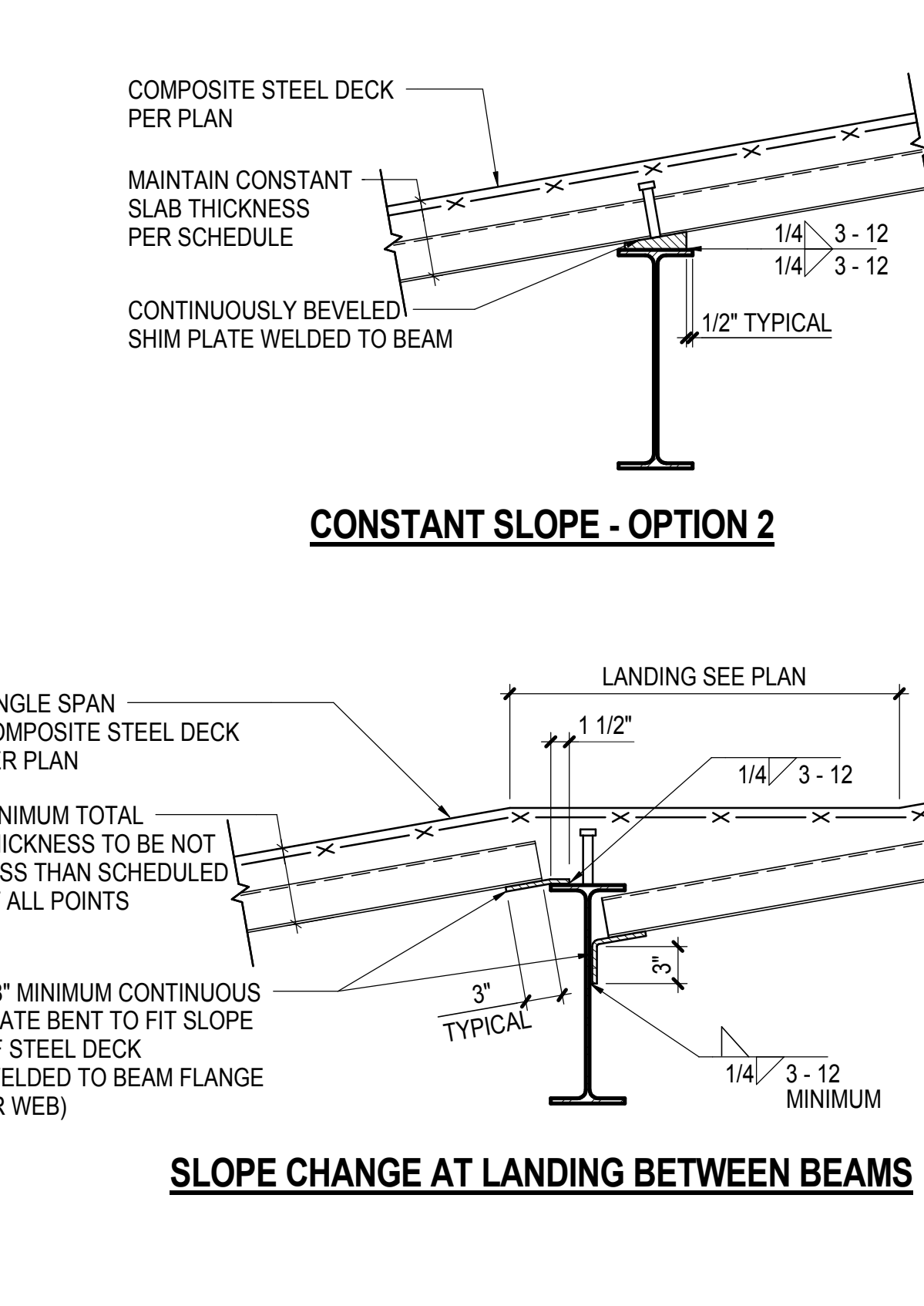
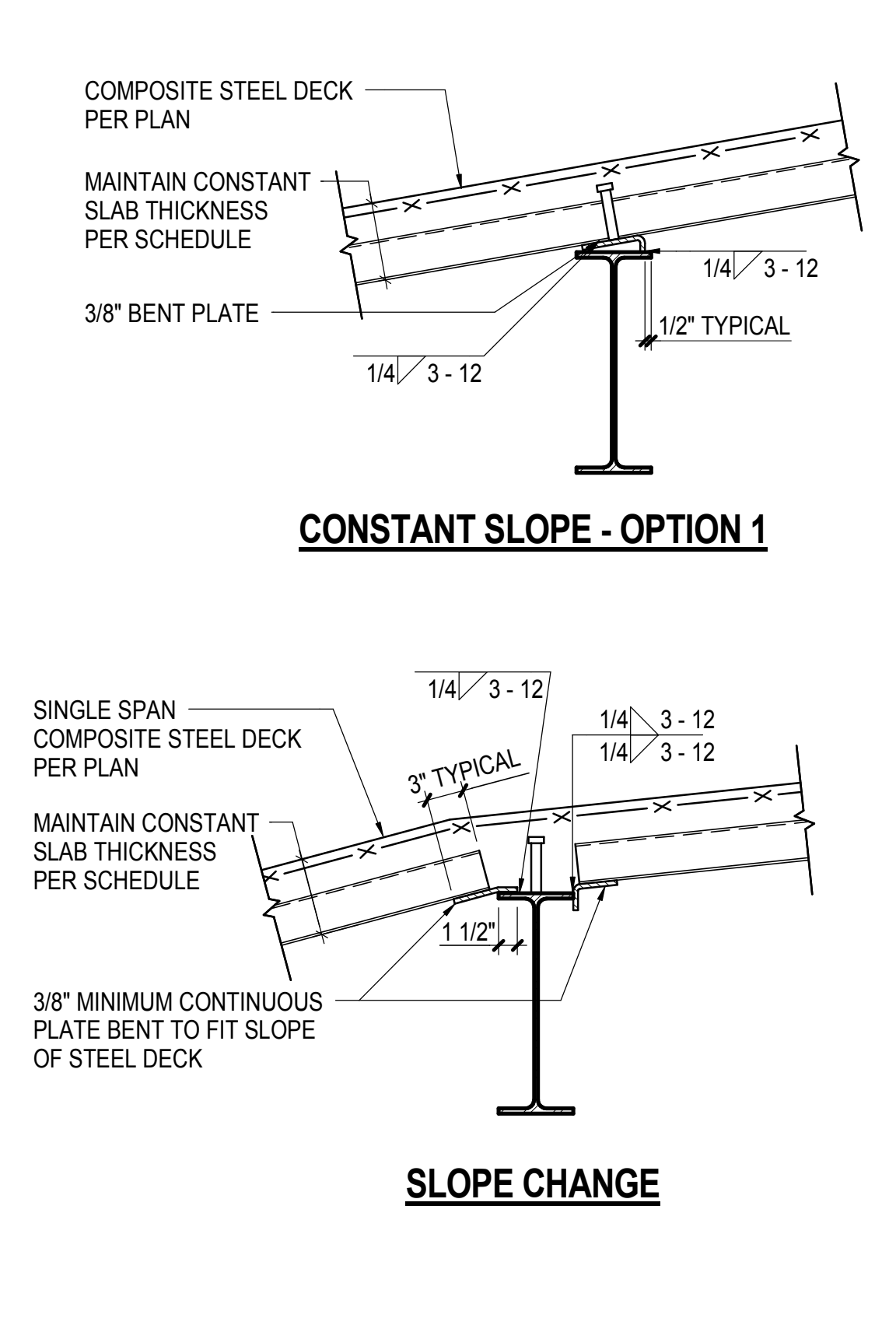
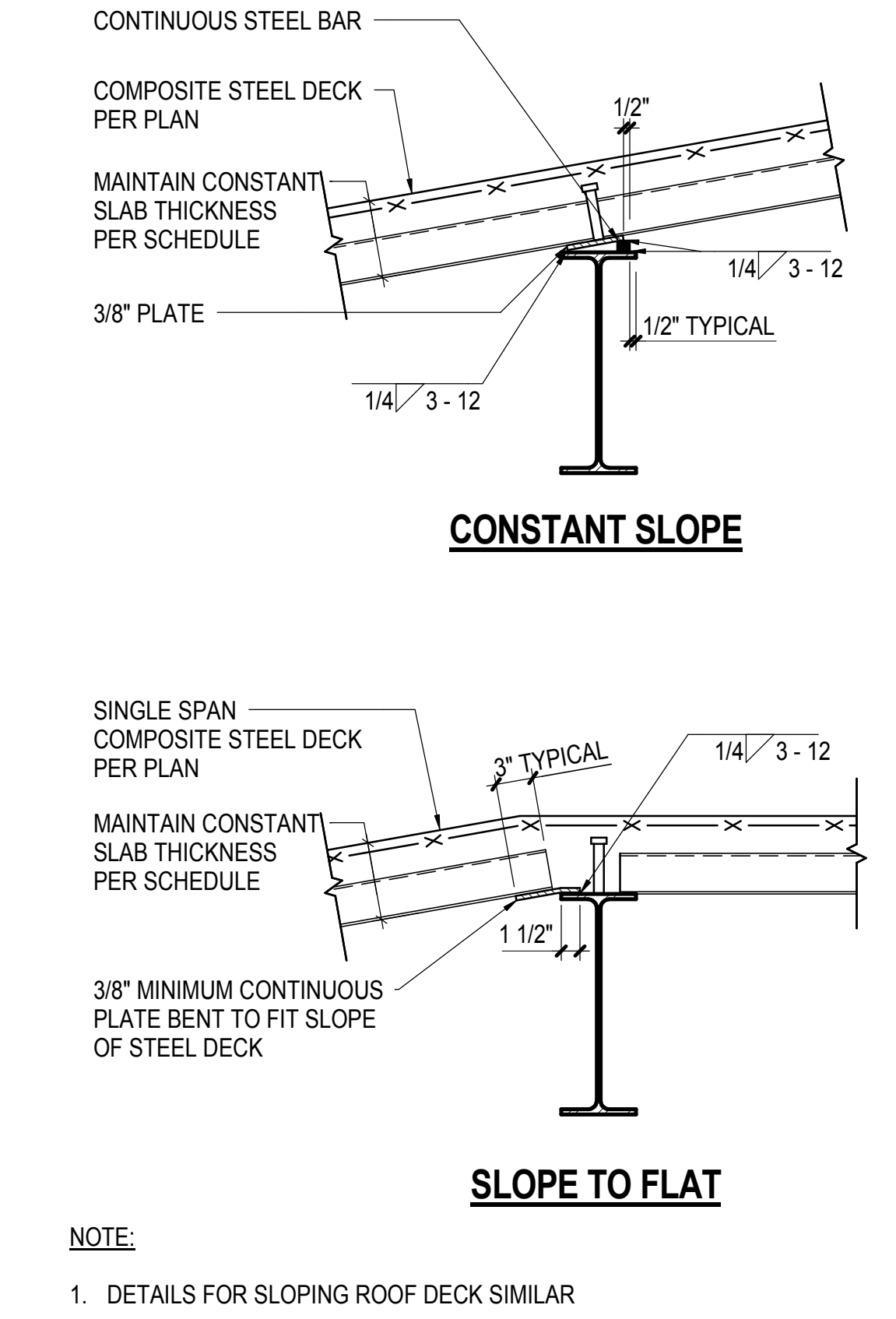


**1 TYPICAL CHANGE IN SLAB ELEVATION (BEAM AT HIGH SLAB)**  
NOT TO SCALE

**2 TYPICAL CHANGE IN SLAB ELEVATION (BEAM AT LOW SLAB)**  
NOT TO SCALE

**3 TYPICAL CHANGE IN SLAB ELEVATION ALONG BEAM SPAN**  
NOT TO SCALE

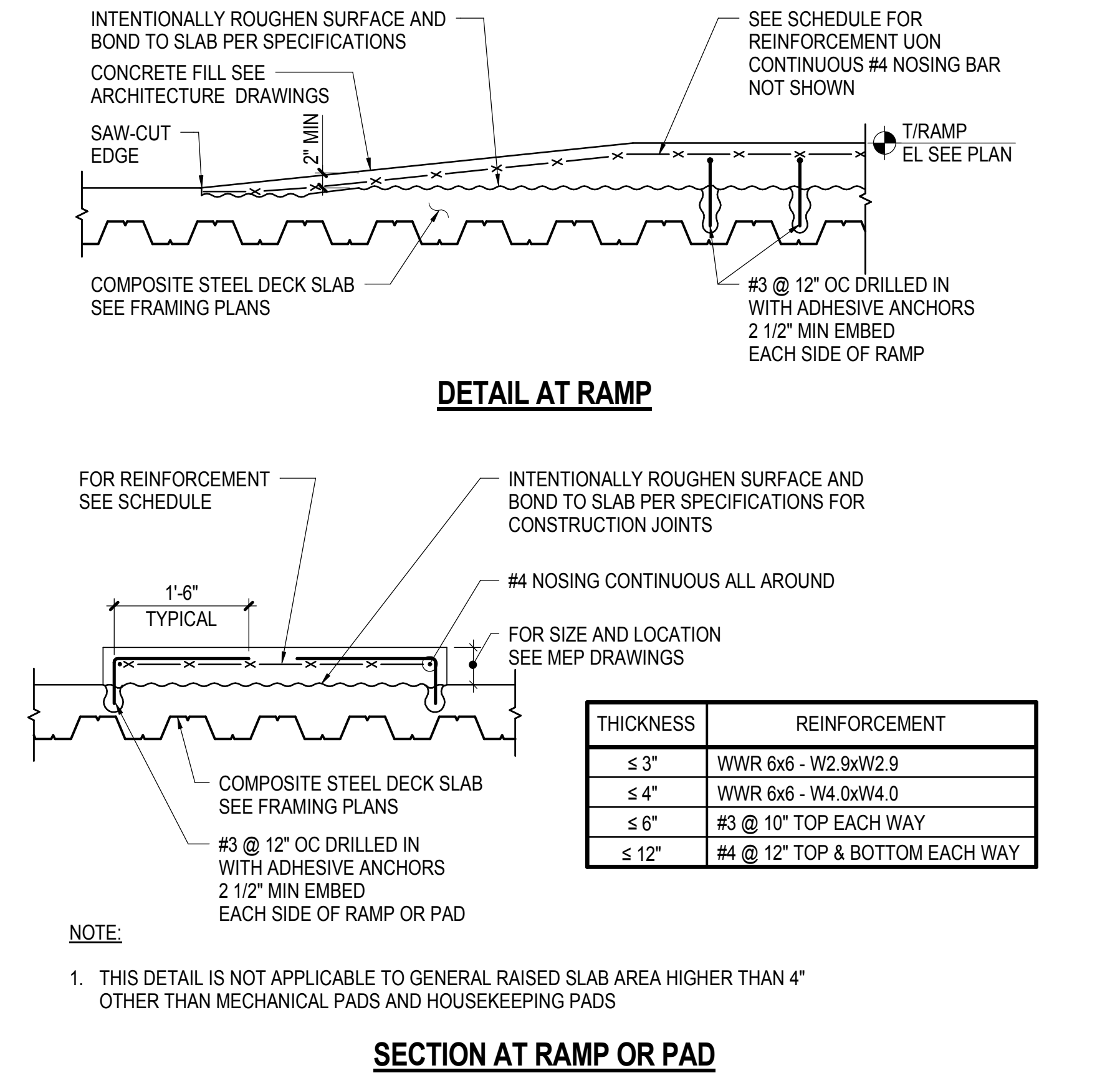
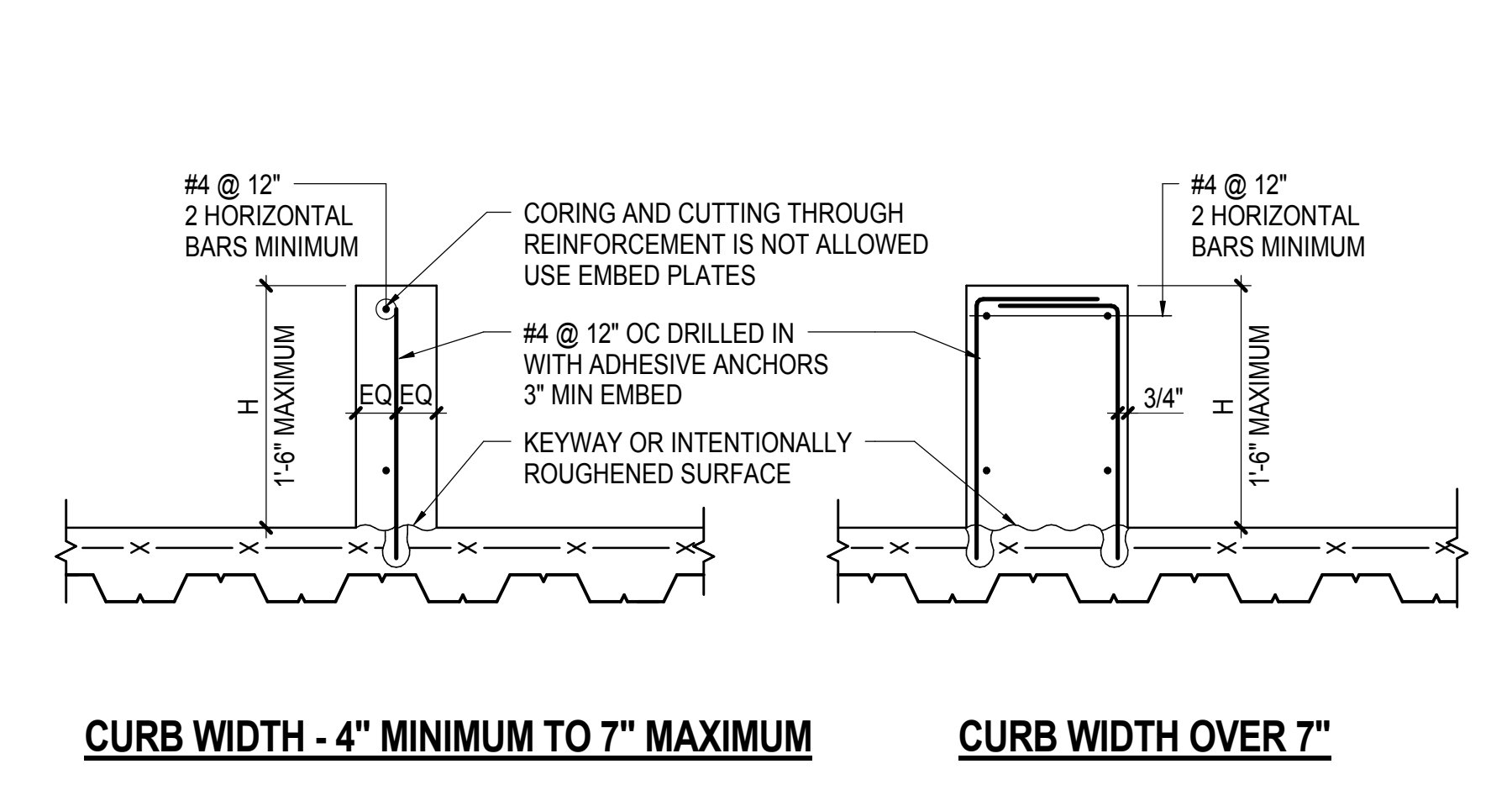
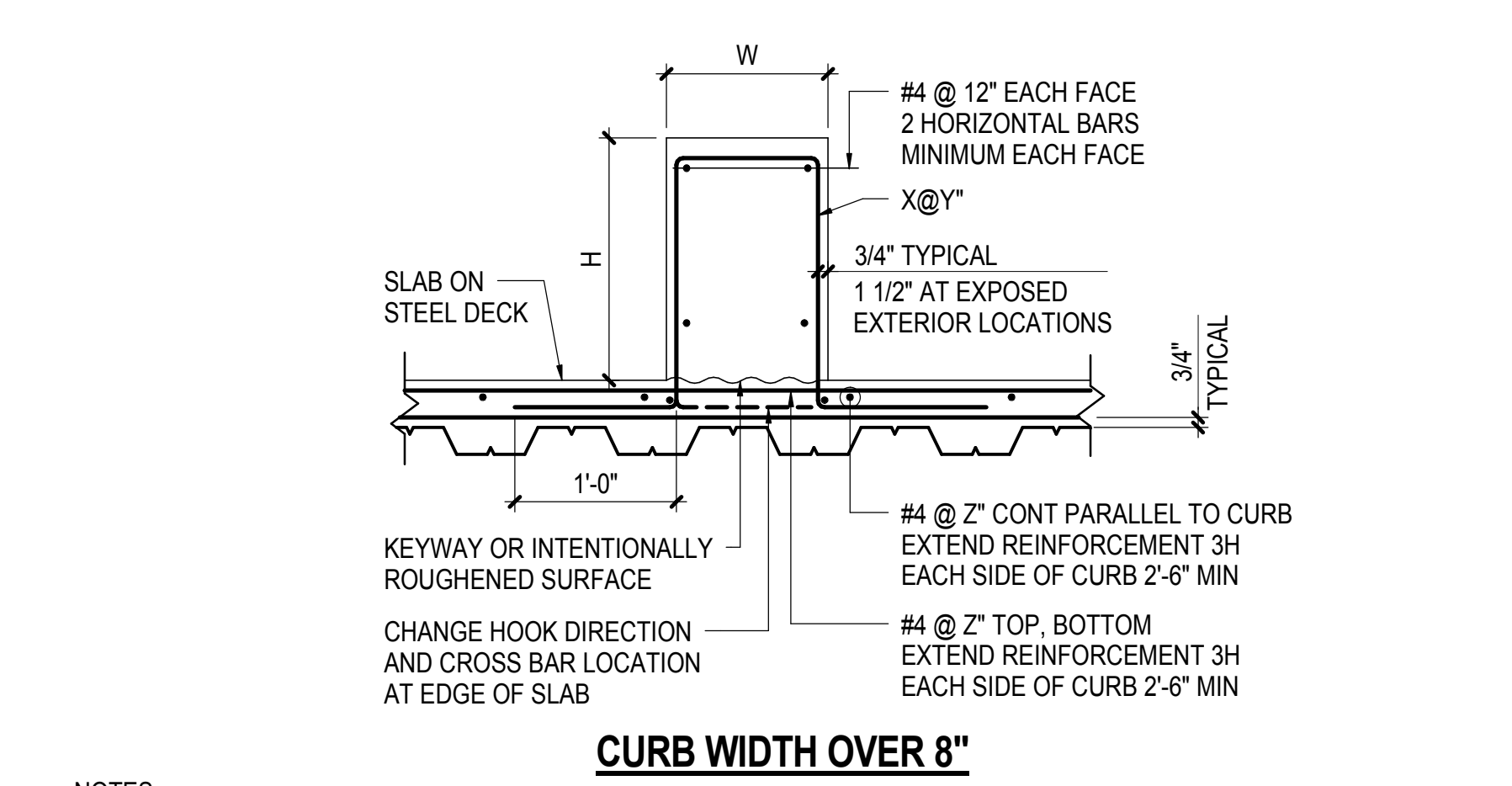
**3 TYPICAL CHANGE IN SLAB ELEVATION ALONG BEAM SPAN**  
NOT TO SCALE



**4 TYPICAL SUPPORT OF COMPOSITE STEEL DECK INCLINED OVER BEAM**  
NOT TO SCALE

**5 TYPICAL DETAIL OF COMPOSITE STEEL DECK UNDER CMU NON-STRUCTURAL PARTITION**  
NOT TO SCALE

**6 TYPICAL DETAIL OF COMPOSITE STEEL DECK UNDER CMU NON-STRUCTURAL PARTITION**  
NOT TO SCALE



**NOTES:**

- FOR SIZE AND LOCATION SEE ARCHITECTURE, MEP OR STRUCTURAL DRAWINGS
- ROUGHEN SURFACE OF SLAB TO 1/4" AMPLITUDE CLEAN THOROUGHLY AND APPLY BONDING AGENT IMMEDIATELY BEFORE CASTING CURB
- THIS DETAIL IS APPLICABLE TO CURBS SUPPORTING EXTERIOR WALLS SEE ADDITIONAL DETAILS FOR CURTAIN WALL SUPPORT SEE ARCHITECTURE DRAWINGS FOR EMBEDDED PLATES AND BLOCKOUTS
- SEE ARCHITECTURE DRAWINGS FOR EMBEDDED PLATES AND BLOCKOUTS REPLACE REINFORCEMENT INTERRUPTED BY BLOCKOUTS
- AT CONTRACTORS OPTION DRILLED-IN DOWELS WITH ADHESIVE ANCHORS MAY BE PERMITTED BAR SIZE AND SPACING MAY CHANGE DEPENDING ON EMBEDMENT REQUIRED CONTRACTOR TO VERIFY WITH SER

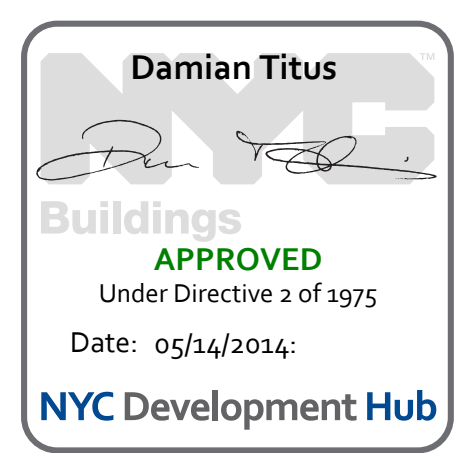
**NOTES:**

- FOR SIZE AND LOCATION SEE ARCHITECTURAL, MEP OR STRUCTURAL DRAWINGS
- ROUGHEN SURFACE OF SLAB TO 1/4" AMPLITUDE CLEAN THOROUGHLY AND APPLY BONDING AGENT IMMEDIATELY BEFORE CASTING CURB
- THIS DETAIL IS APPLICABLE AT CURBS FOR NON-STRUCTURAL ELEMENTS SUCH AS SKYLIGHTS, INTERIOR PARTITIONS AND INTERIOR RAILINGS
- SEE ARCHITECTURE DRAWINGS FOR EMBEDDED PLATES AND BLOCKOUTS REPLACE REINFORCEMENT INTERRUPTED BY BLOCKOUTS

**7 TYPICAL CURB DETAILS (SUBJECT TO LATERAL LOADS)**  
NOT TO SCALE

**8 TYPICAL CURB DETAILS (NOT SUBJECT TO LATERAL LOADS)**  
NOT TO SCALE

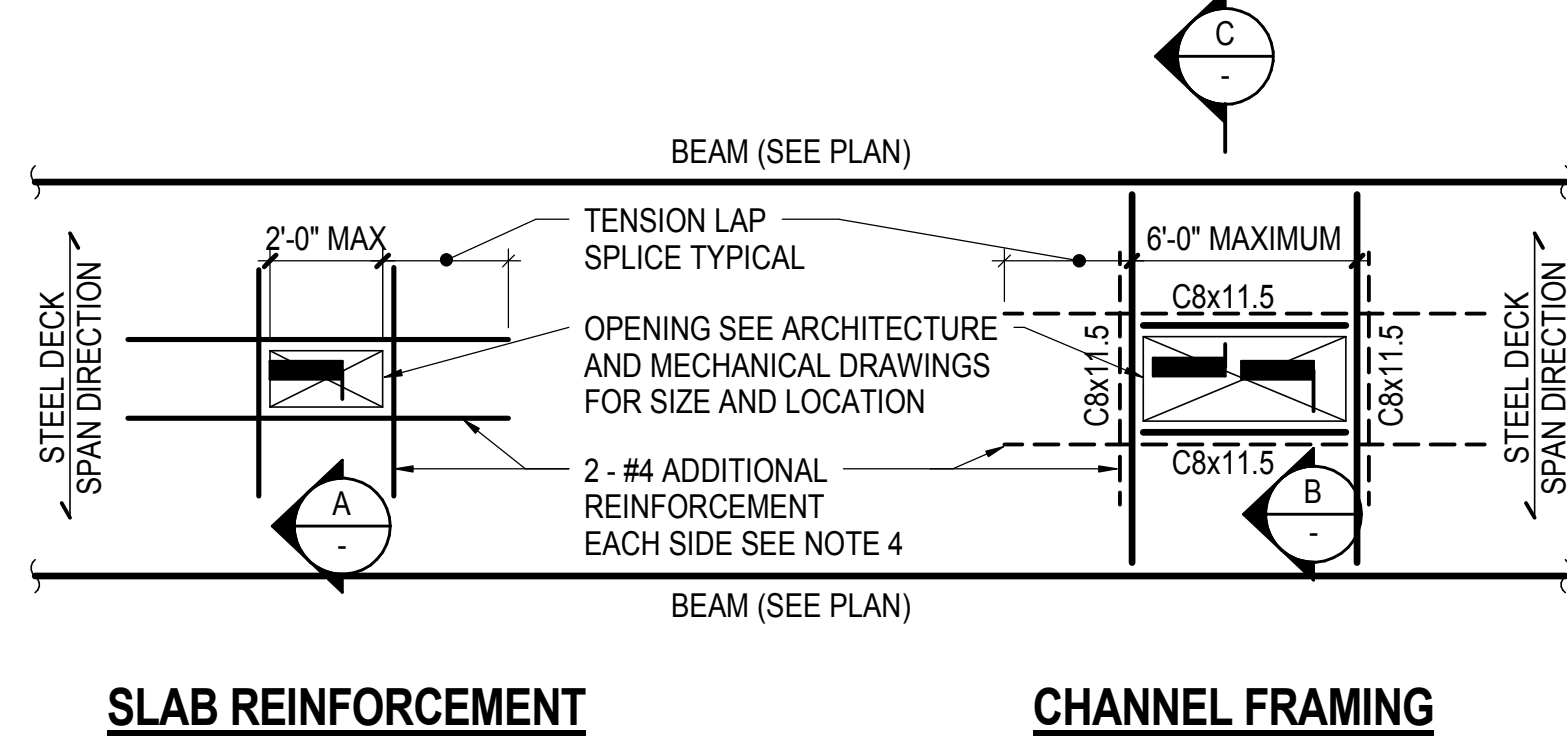
**9 TYPICAL DETAIL OF CONCRETE FILL HOUSEKEEPING PAD/MECHANICAL PAD/RAMP**  
NOT TO SCALE





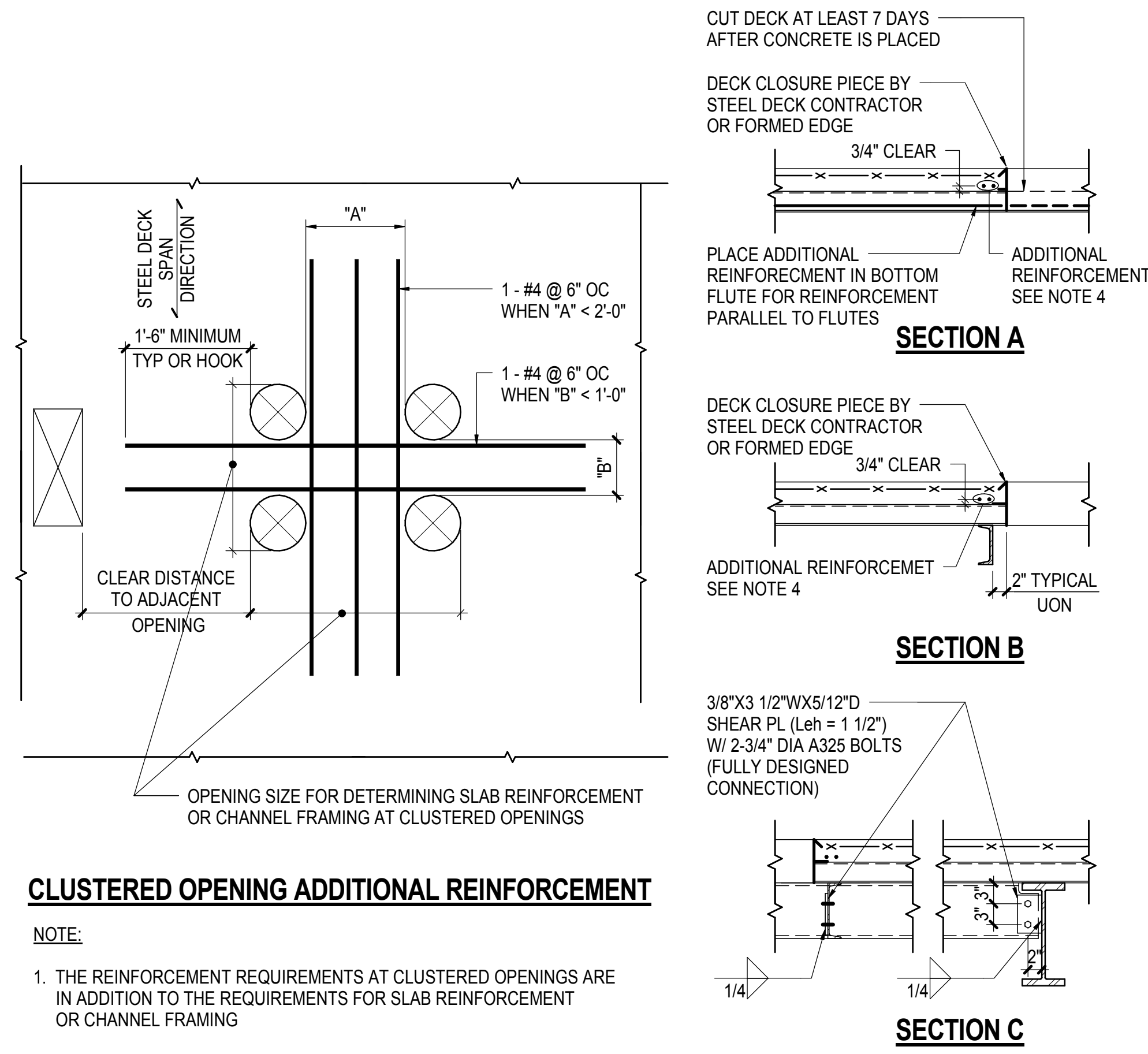
**NOTES:**

- NO REINFORCEMENT IS REQUIRED FOR OPENING SIZE LESS THAN 10' x 10' IF ALL OF THE FOLLOWING CRITERIA ARE MET:  
A.) STEEL DECK WILL BE CUT AT LEAST 7 DAYS AFTER PLACING OF CONCRETE  
B.) THE CLEAR DISTANCE TO THE ADJACENT OPENING OR OPENINGS IS 1'-0" OR MORE PARALLEL TO DECK SPAN AND 2'-0" OR MORE PERPENDICULAR TO DECK SPAN
- SLAB REINFORCEMENT OR CHANNEL FRAMING IS REQUIRED FOR OPENINGS THAT DO NOT SATISFY NOTE 1
- MULTIPLE OPENINGS THAT DO NOT SATISFY THE SPACING REQUIREMENTS OF NOTE 1 ARE TO BE CONSIDERED CLUSTERED OPENINGS AND SHALL RECEIVE CLUSTERED SLAB REINFORCEMENT OR CHANNEL FRAMING. CLUSTERS SHALL BE TREATED AS ONE LARGE OPENING FOR SLAB REINFORCEMENT OR CHANNEL FRAMING
- PROVIDE REINFORCEMENT SHOWN OR PROVIDE REINFORCEMENT BARS TO COMPENSATE FOR SLAB REINFORCEMENT INTERRUPTED AT OPENINGS, WHICHEVER IS LARGER. ALL INTERRUPTED BARS IN EACH DIRECTION SHALL BE COMPENSATED BY ADDITIONAL BARS AT EACH SIDE OF THE OPENING EQUAL TO 1/2 THE INTERRUPTED AREA
- ATTACH DECK TO CHANNELS (TYPICAL)
- IF SLEEVES ARE USED, THE SLEEVES ARE TO BE INSTALLED SUCH THAT STEEL DECK WILL BE CUT AT LEAST 7 DAYS AFTER PLACING OF CONCRETE



**SLAB REINFORCEMENT CHANNEL FRAMING**

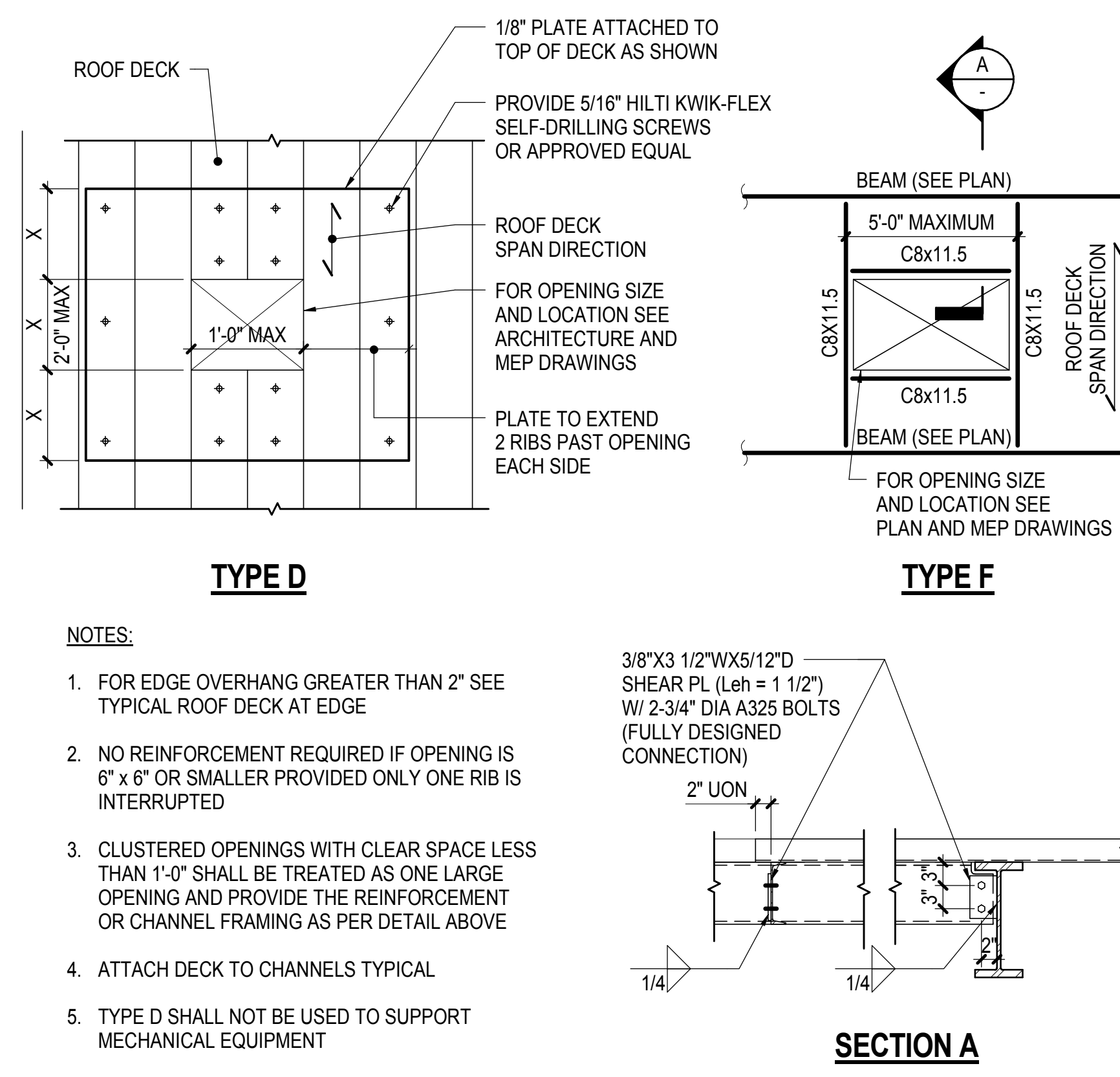
**1 TYPICAL COMPOSITE STEEL DECK AT OPENING**  
NOT TO SCALE



**CLUSTERED OPENING ADDITIONAL REINFORCEMENT**

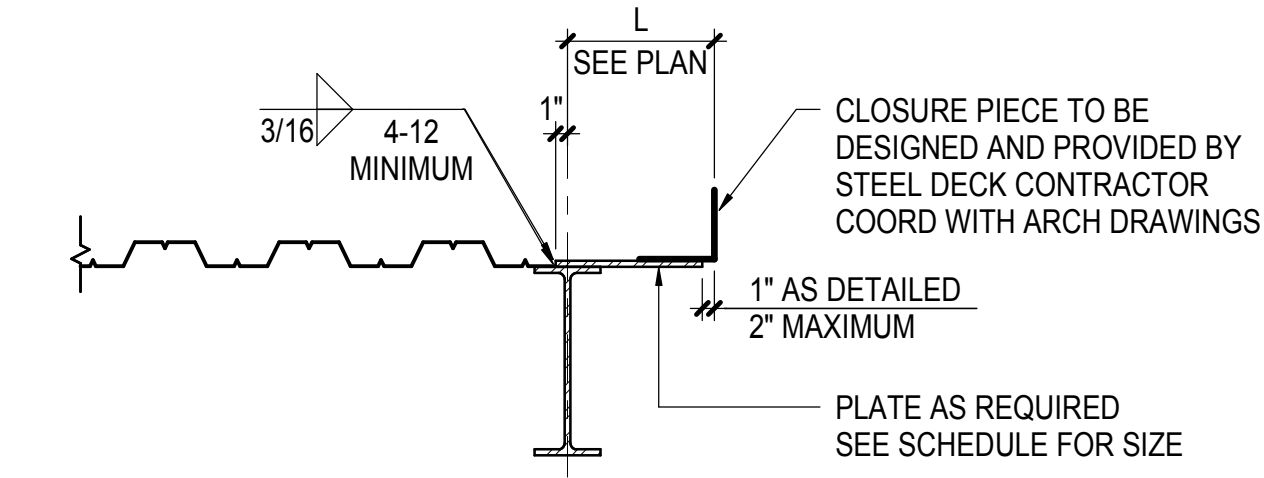
- NOTE:**
- THE REINFORCEMENT REQUIREMENTS AT CLUSTERED OPENINGS ARE IN ADDITION TO THE REQUIREMENTS FOR SLAB REINFORCEMENT OR CHANNEL FRAMING

**2 TYPICAL ROOF DECK AT OPENING**  
NOT TO SCALE



- NOTES:**
- FOR EDGE OVERHANG GREATER THAN 2' SEE TYPICAL ROOF DECK AT EDGE
  - NO REINFORCEMENT REQUIRED IF OPENING IS 4' x 6' OR SMALLER PROVIDED ONLY ONE RIB IS INTERRUPTED
  - CLUSTERED OPENINGS WITH CLEAR SPACE LESS THAN 1'-0" SHALL BE TREATED AS ONE LARGE OPENING AND PROVIDE THE REINFORCEMENT OR CHANNEL FRAMING AS PER DETAIL ABOVE
  - ATTACH DECK TO CHANNELS TYPICAL
  - TYPE D SHALL NOT BE USED TO SUPPORT MECHANICAL EQUIPMENT
  - TYPE F FRAMING SHALL BE COORDINATED WITH EQUIPMENT SUPPORT FRAMING

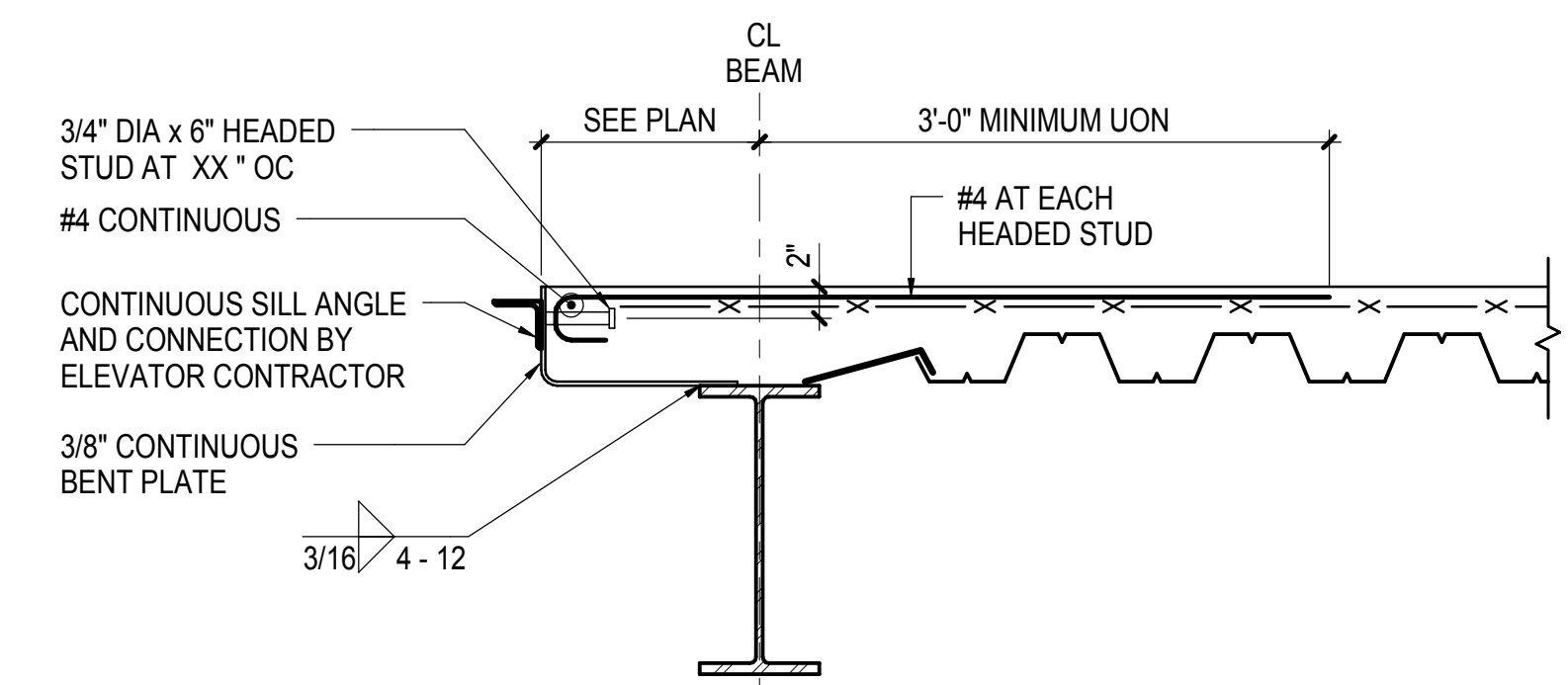
**3 TYPICAL ROOF DECK AT EDGE**  
NOT TO SCALE



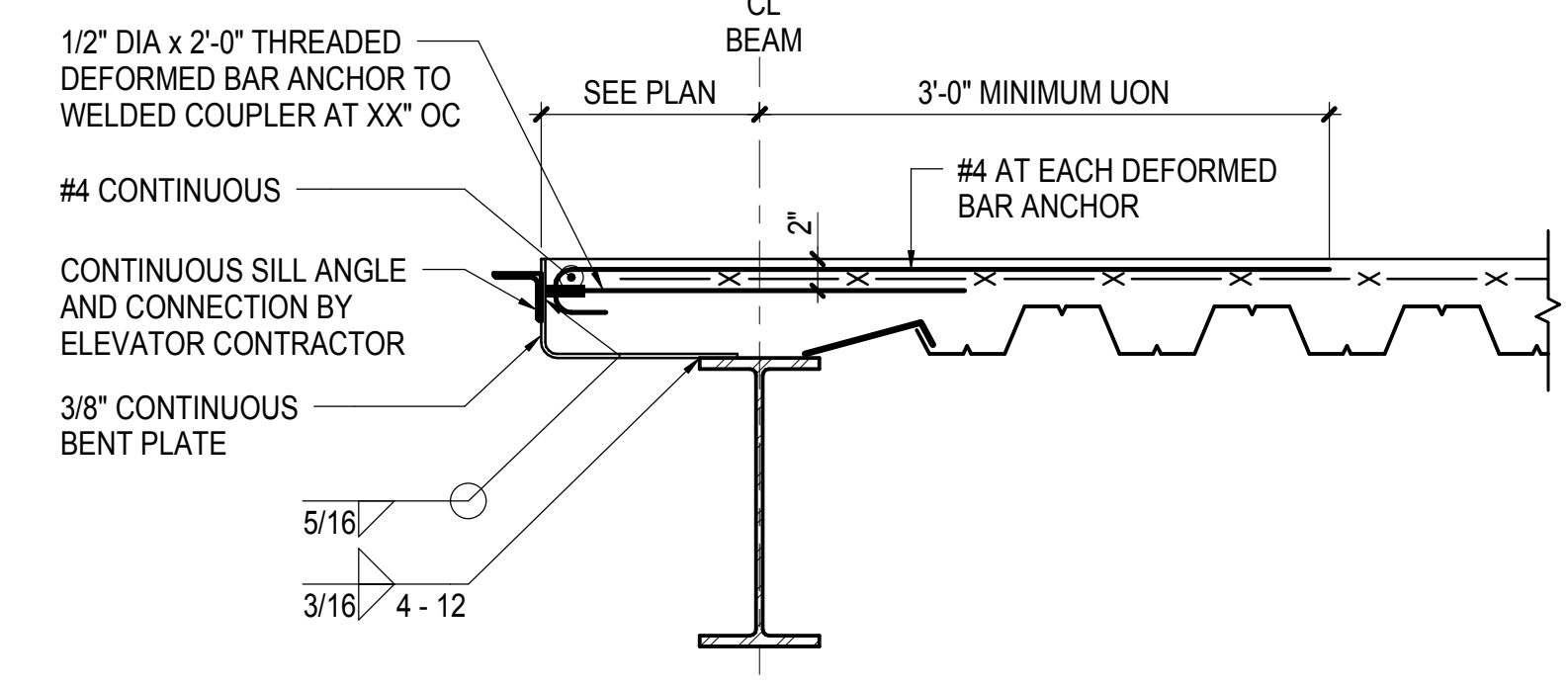
L	THICKNESS OF PLATE OR CLOSURE
≤ 1'-4"	1/4"
≤ 1'-0"	10 GAGE
≤ 0'-10"	12 GAGE

**NOTE:**  
AT CONTRACTOR'S OPTION SINGLE BENT PL (OR EQUIV ANGLE) MAY BE USED PROVIDED IT IS FIELD INSTALLED AND ACCOMMODATES SLAB EDGE TOLERANCES

**4 TYPICAL ELEVATOR SILL DETAIL**  
NOT TO SCALE



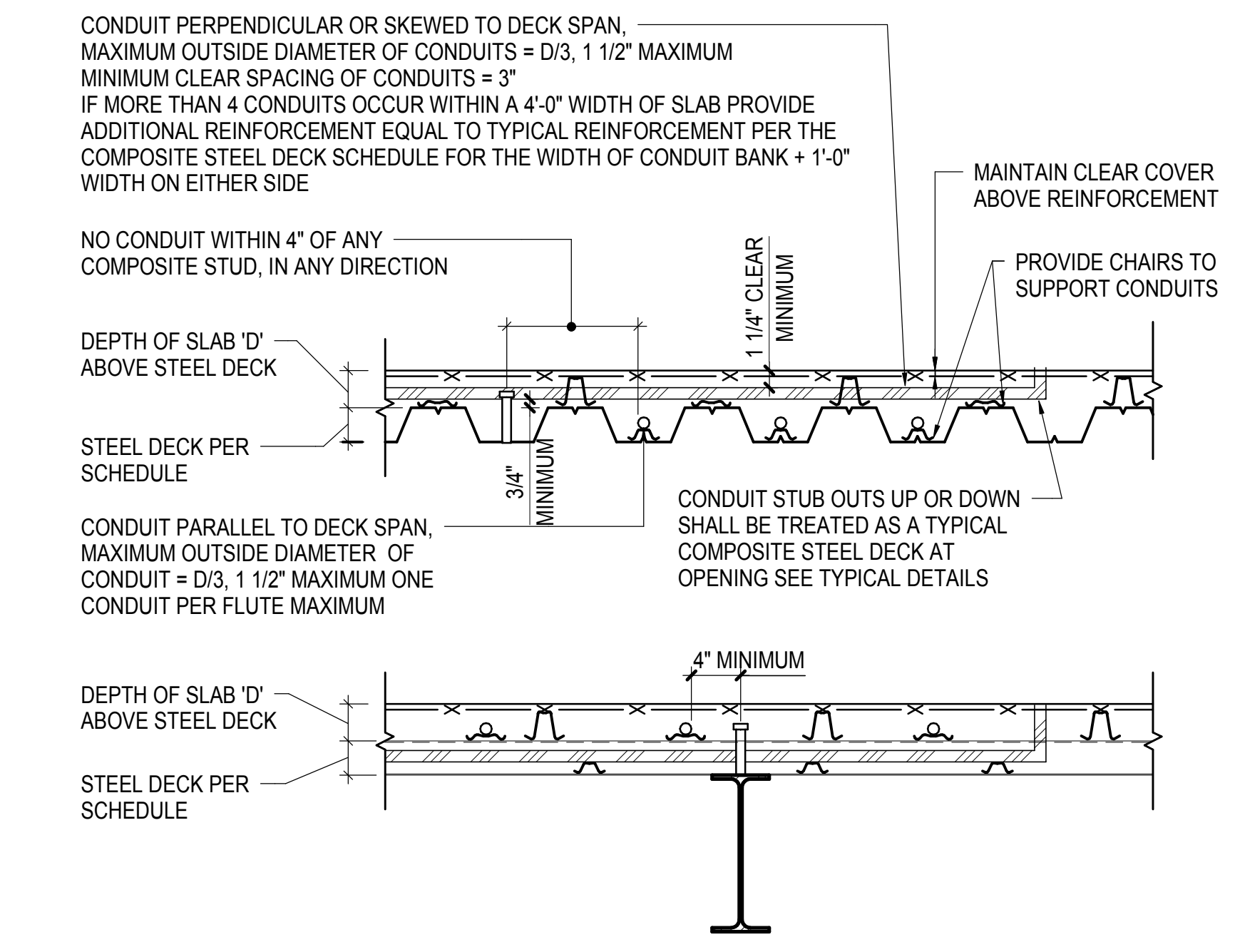
**ELEVATOR SILL (ELEVATOR CAPACITY UP TO XXXX LBS)**



**ELEVATOR SILL (ELEVATOR CAPACITY UP TO XXXX LBS)**

- NOTE:**
- SEE TYPICAL SLAB EDGE DETAILS FOR ADDITIONAL INFORMATION

**5 TYPICAL ELEVATOR SILL DETAIL**  
NOT TO SCALE



- NOTE:**
- SEE TYPICAL LINK BEAM SECTION FOR ADDITIONAL INFORMATION

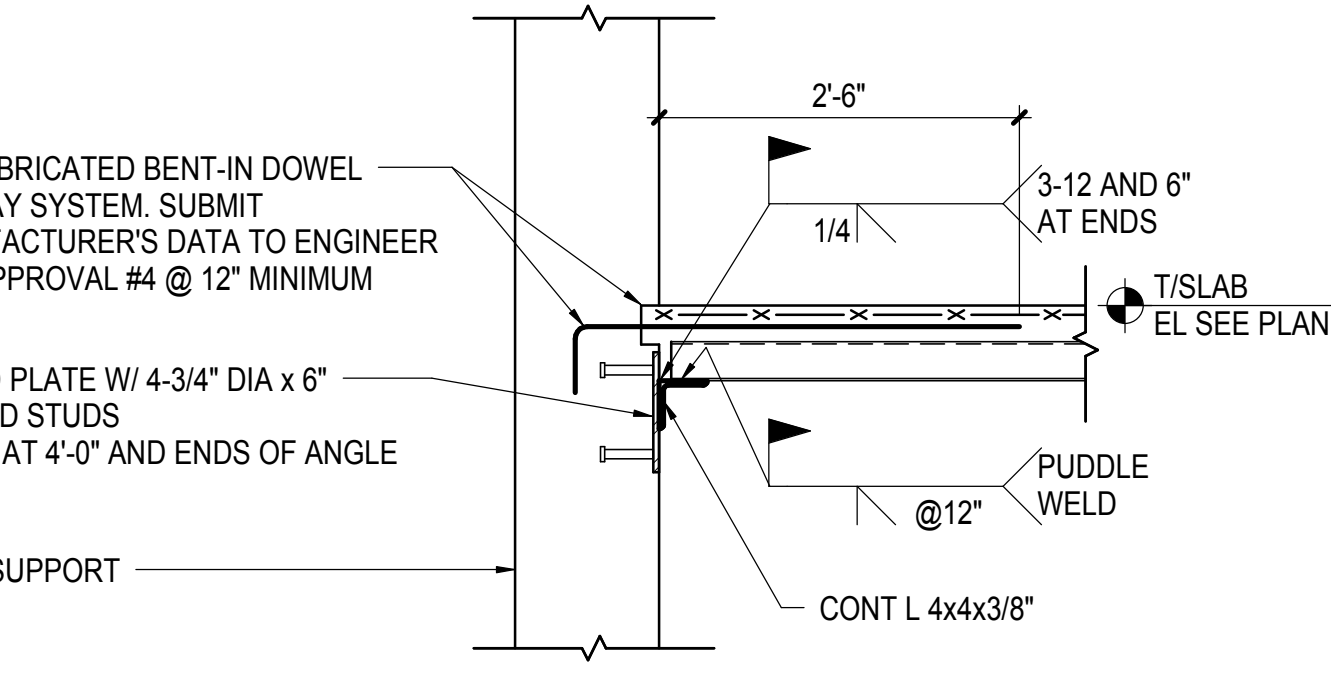
**6 TYPICAL DETAIL OF EMBEDDED CONDUITS IN SLAB**  
NOT TO SCALE

**7 TYPICAL COMPOSITE STEEL DECK DETAIL AT LINK BEAM SUPPORT**  
NOT TO SCALE

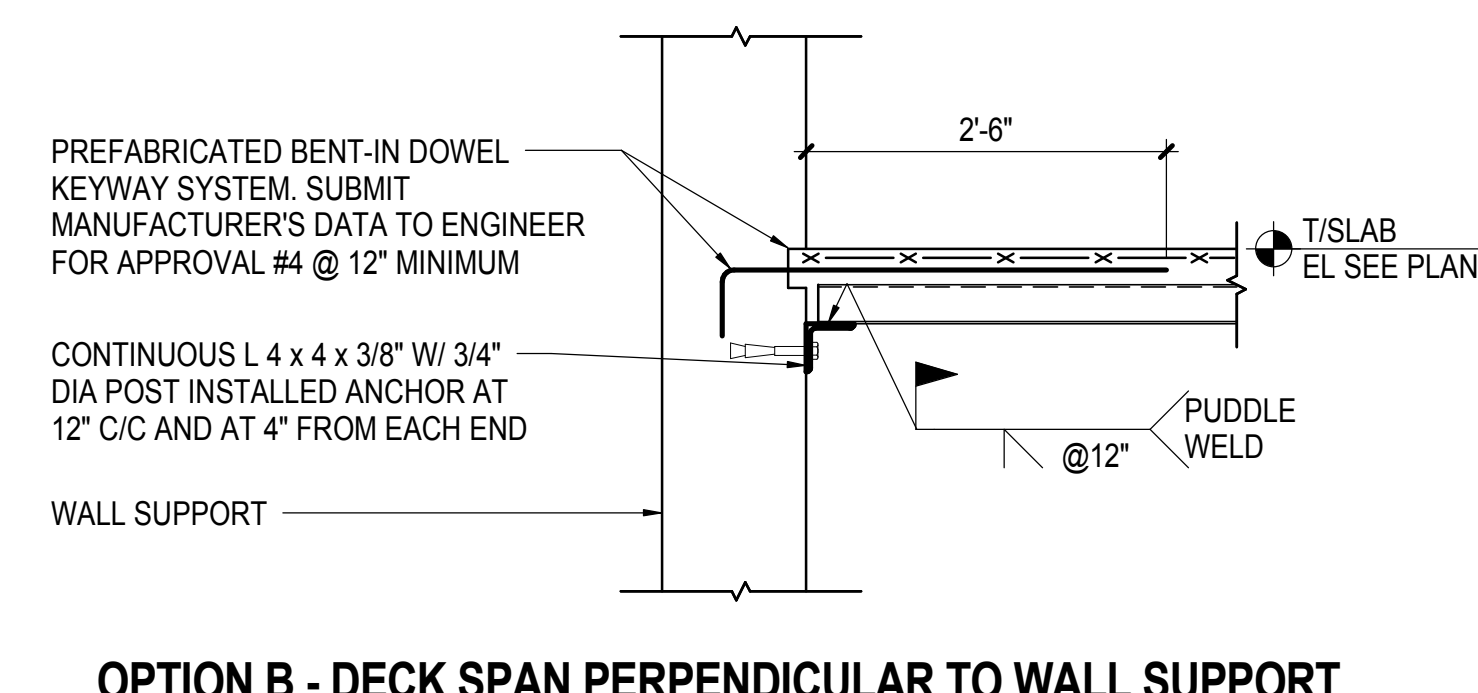
**NOTE:**

- SEE TYPICAL COMPOSITE STEEL DECK AT SLAB EDGE (DECK PARALLEL CONDITION) FOR CANTILEVER PLATE, POUR STOP AND REINFORCEMENT REQUIREMENTS

**8 TYPICAL COMPOSITE STEEL DECK BETWEEN OPENINGS**  
NOT TO SCALE

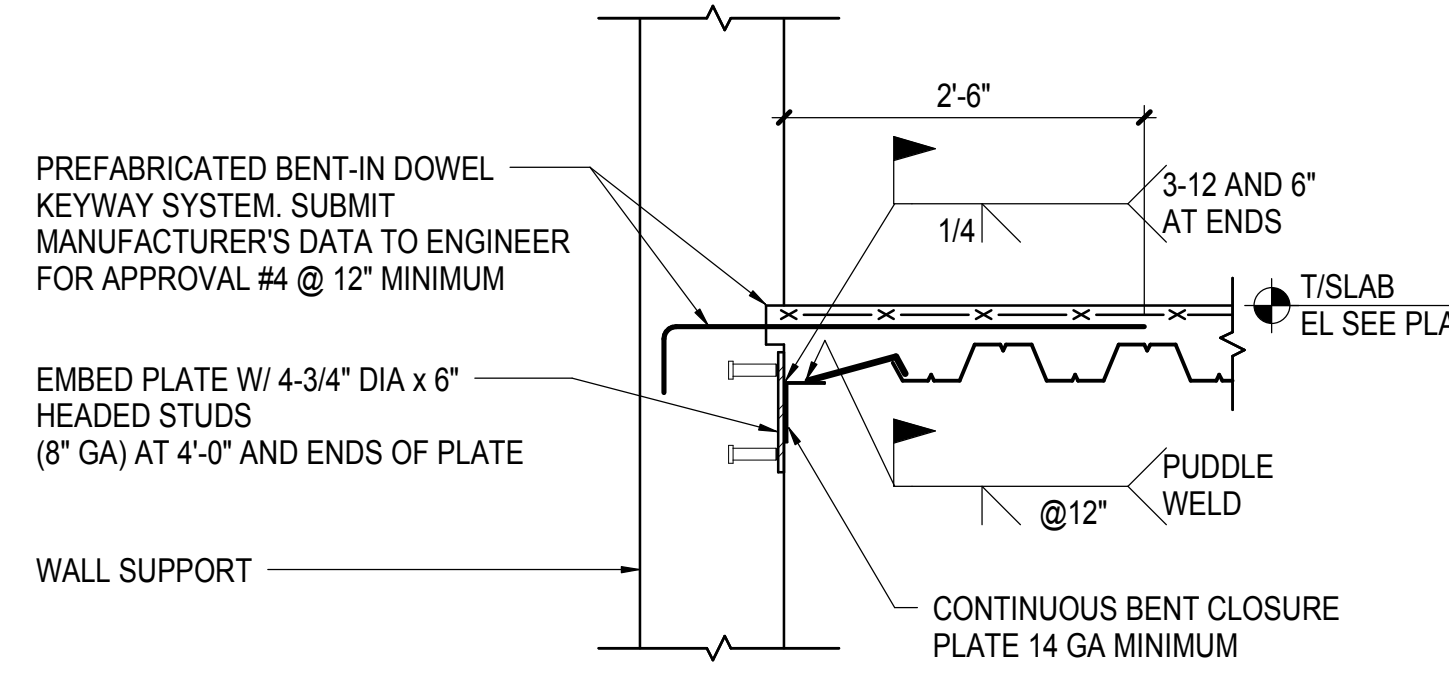


**OPTION A - DECK SPAN PERPENDICULAR TO WALL SUPPORT**

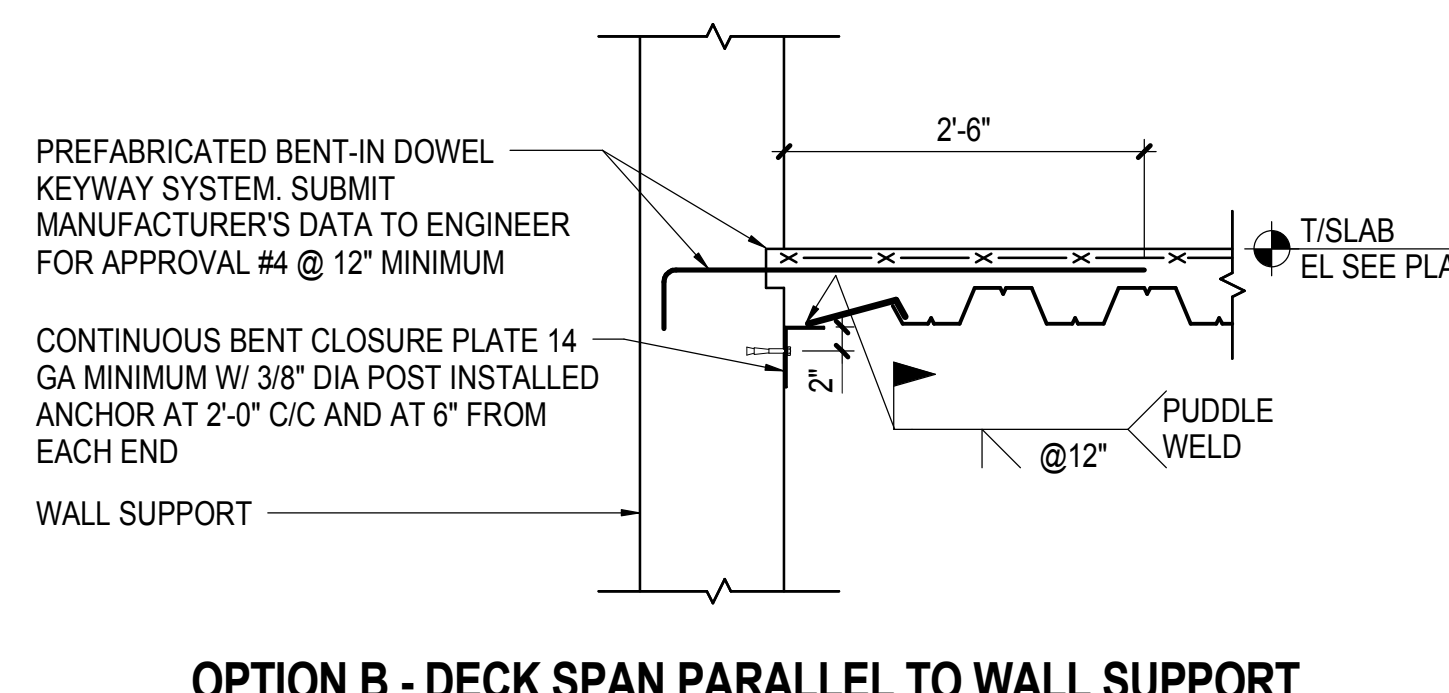


**OPTION B - DECK SPAN PARALLEL TO WALL SUPPORT**

**8 TYPICAL COMPOSITE STEEL DECK DETAILS AT WALL SUPPORT - SECTION**  
NOT TO SCALE

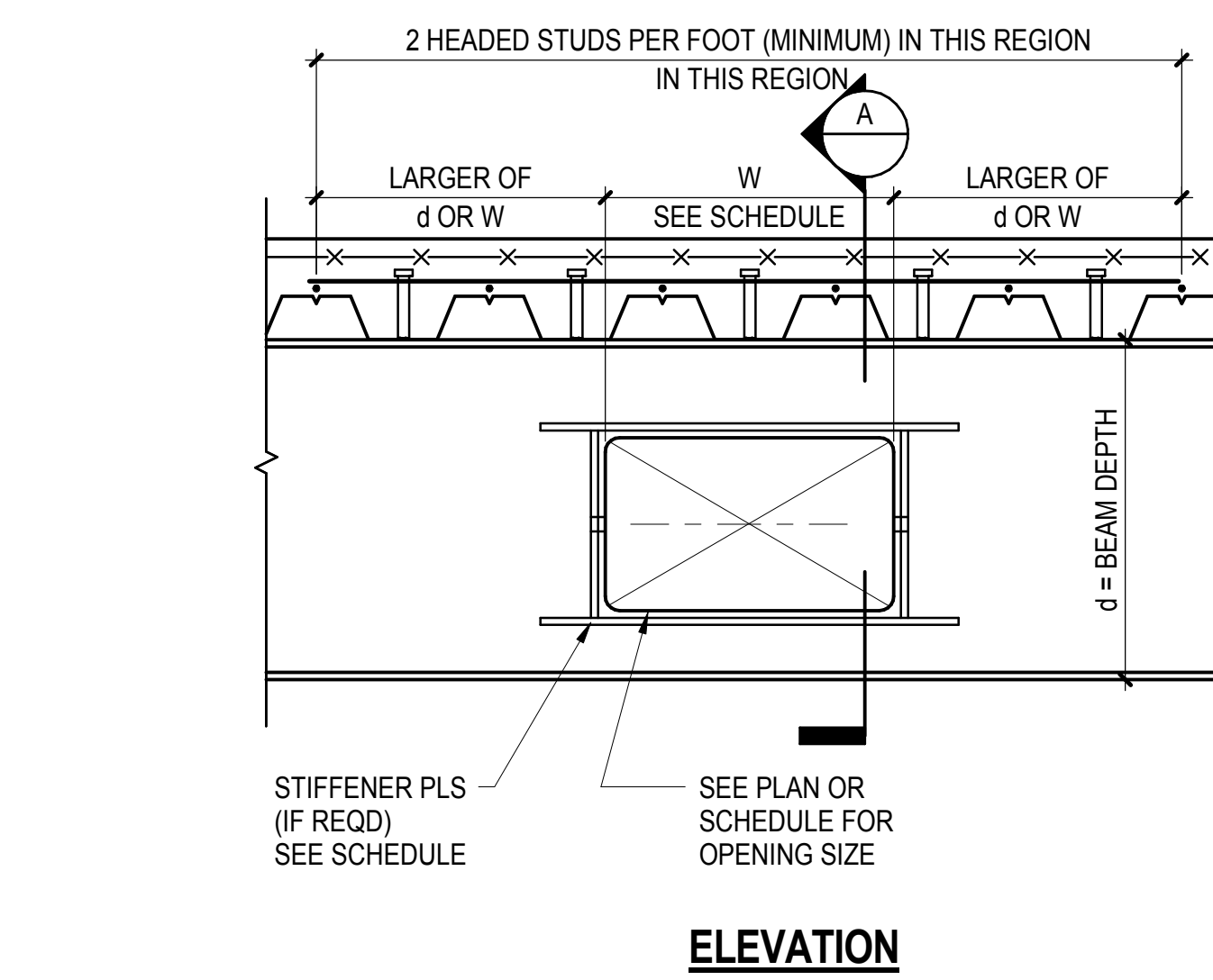


**OPTION A - DECK SPAN PARALLEL TO WALL SUPPORT**

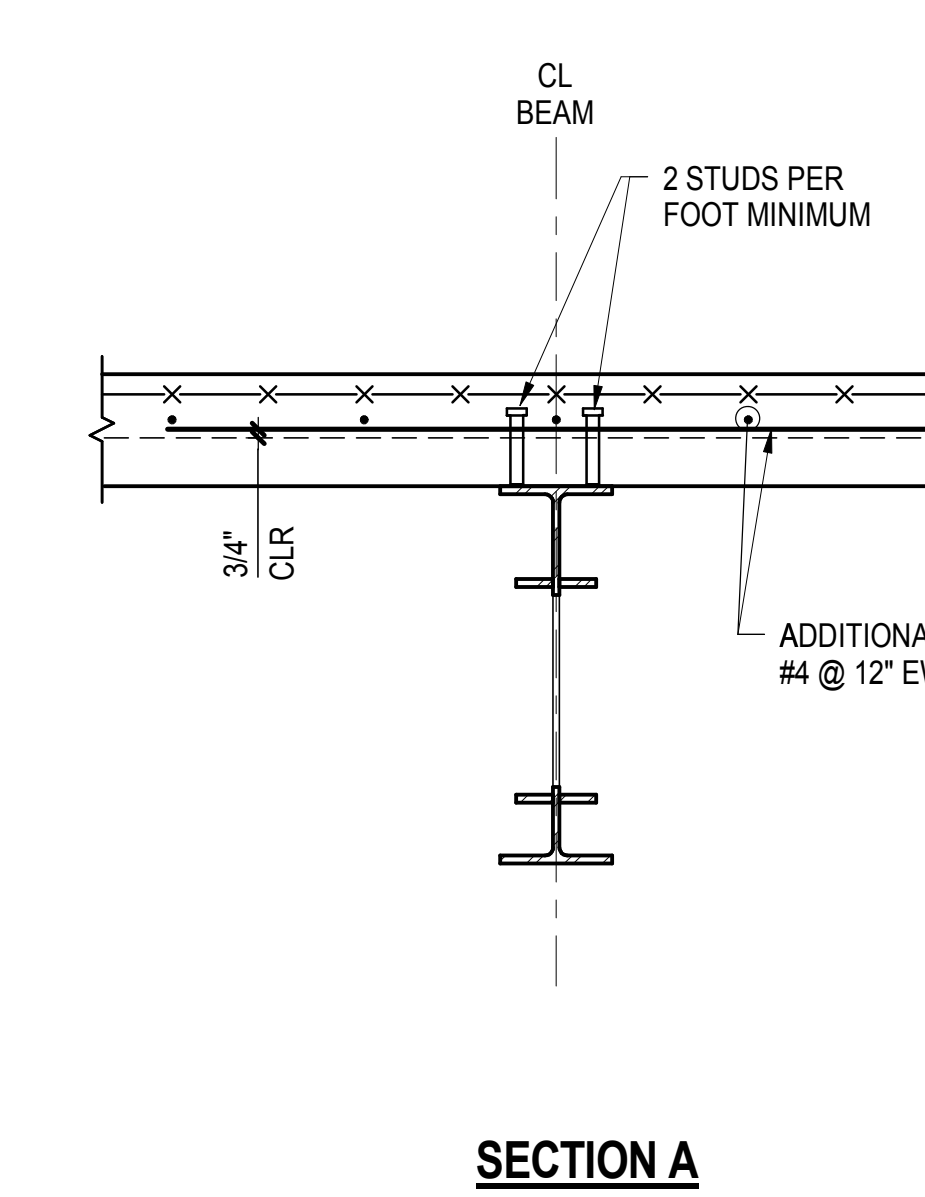


**OPTION B - DECK SPAN PERPENDICULAR TO WALL SUPPORT**

**9 TYPICAL COMPOSITE STEEL DECK DETAIL AT BEAM WEB PENETRATIONS WITH ADDITIONAL STUDS AND SLAB REINFORCEMENT**  
NOT TO SCALE



- NOTES:**
- SEE BEAM WEB PENETRATION SCHEDULE AND TYPICAL STEEL BEAM DETAILS FOR ADDITIONAL INFORMATION
  - THIS DETAIL APPLIES WHERE SPECIFICALLY INDICATED IN BEAM WEB PENETRATION SCHEDULE

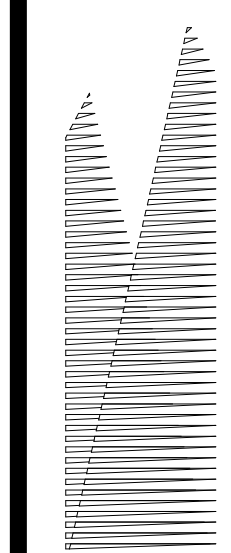


**SECTION A**

**Damian Titus**  
Building APPROVED  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub

**HUDSON YARDS PLATFORM**

Address  
530 WEST 33RD STREET  
NEW YORK, NY



Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Owned Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

Construction Manager  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

Architect  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

Structural Engineer  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Parsons Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

LIRR Ventilation  
Ove Arup & Partners P.C.  
77 Water Street  
New York, NY 10005  
Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&U - PLATFORM SUBMISSION	
A - D1-02 PHASE 1 STRUCTURE UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
A - D1-01 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC DOB FILING	6/17/2013
LIRR - 60% SUBMISSION	5/29/2013
LIRR - 60% - PHASE 1 FDNS	3/29/2013
LIRR - 30% SUBMISSION	2/15/2013
NYC DOB FILING	01/04/2013

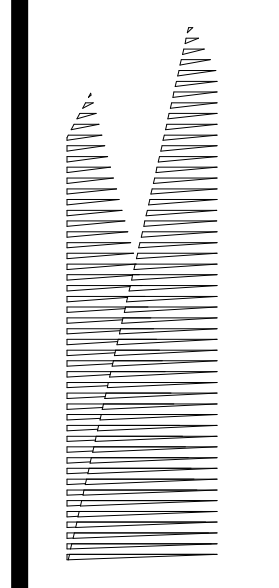
For Plot

Date: 12/14/2012  
Project No: N11330.00  
Drawing Title: HYE - PL - S-723.00  
Author: [Signature]  
NYC Development Hub

**HYE - PL - S-723.00**  
TYPICAL COMPOSITE STEEL DECK DETAILS IV

Sheet Number: /S-CAD/ Drawing Number  
**S-723.00**  
SHEET 179 OF 201





Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
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Owned Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
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Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
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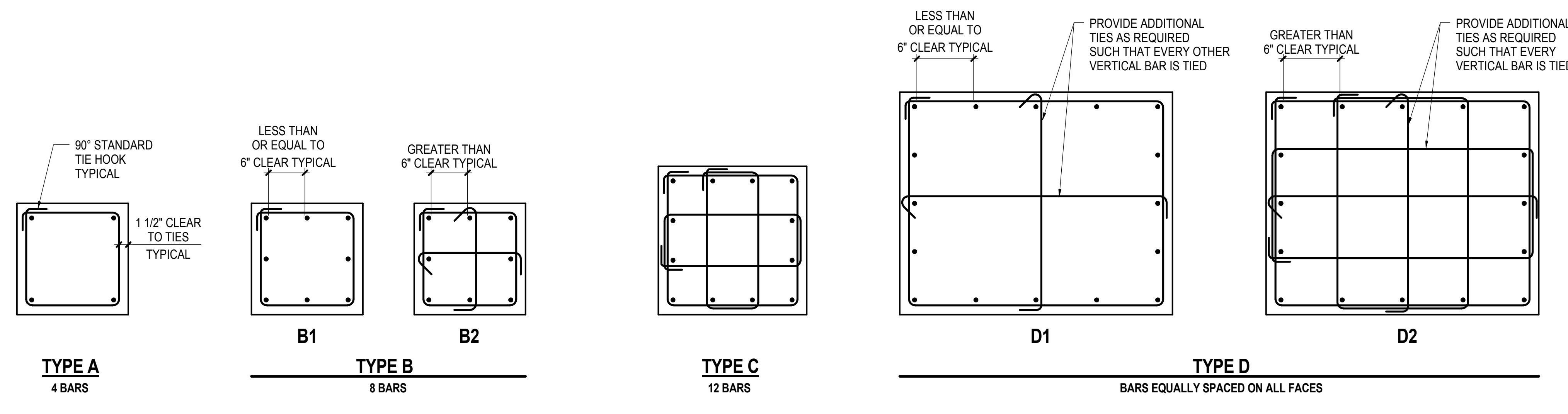
Architect  
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PC Architects & Planning Consultants  
11 West 42nd Street  
New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

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Civil, Mechanical, Electrical, Plumbing,  
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Personnel Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

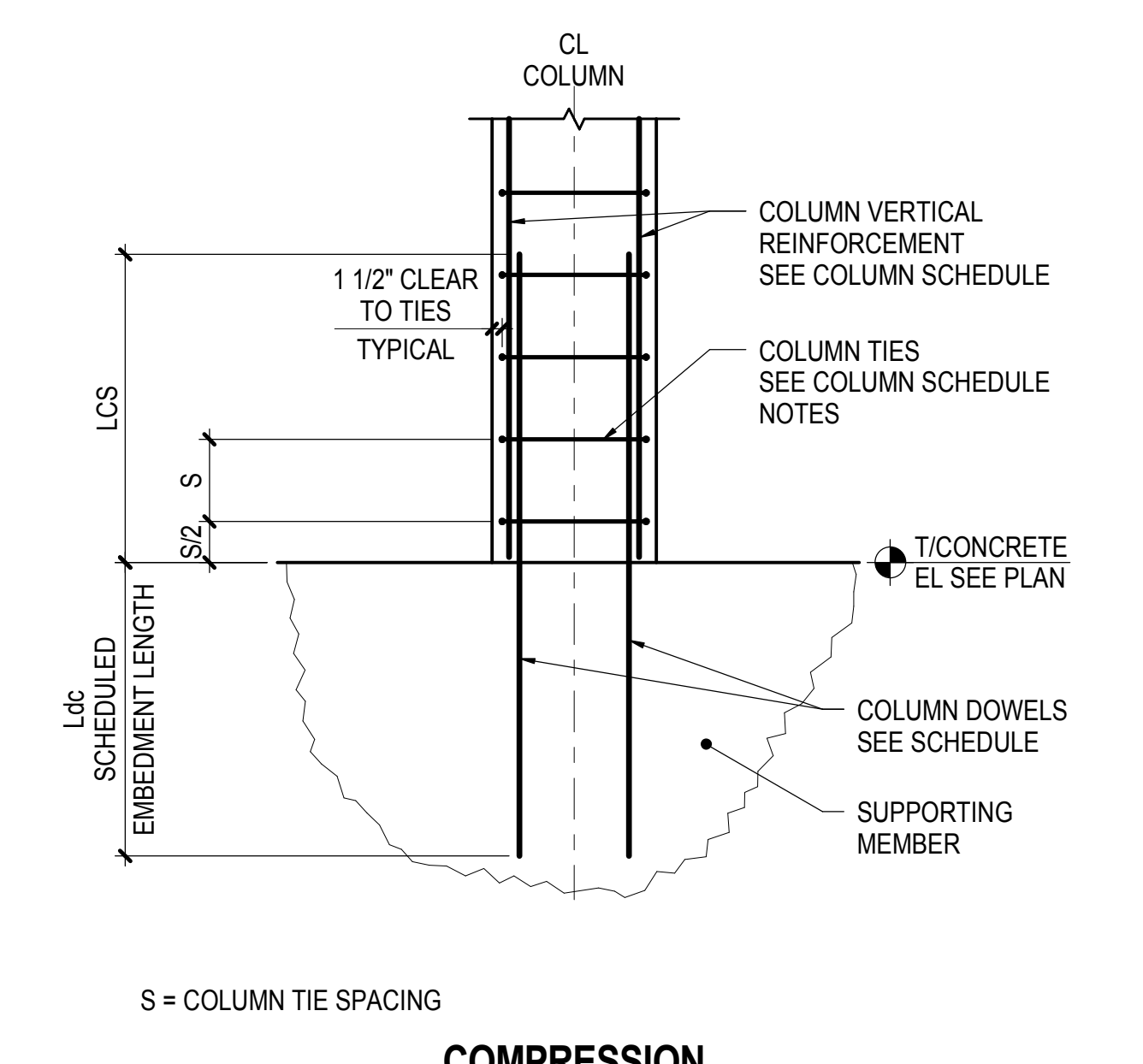
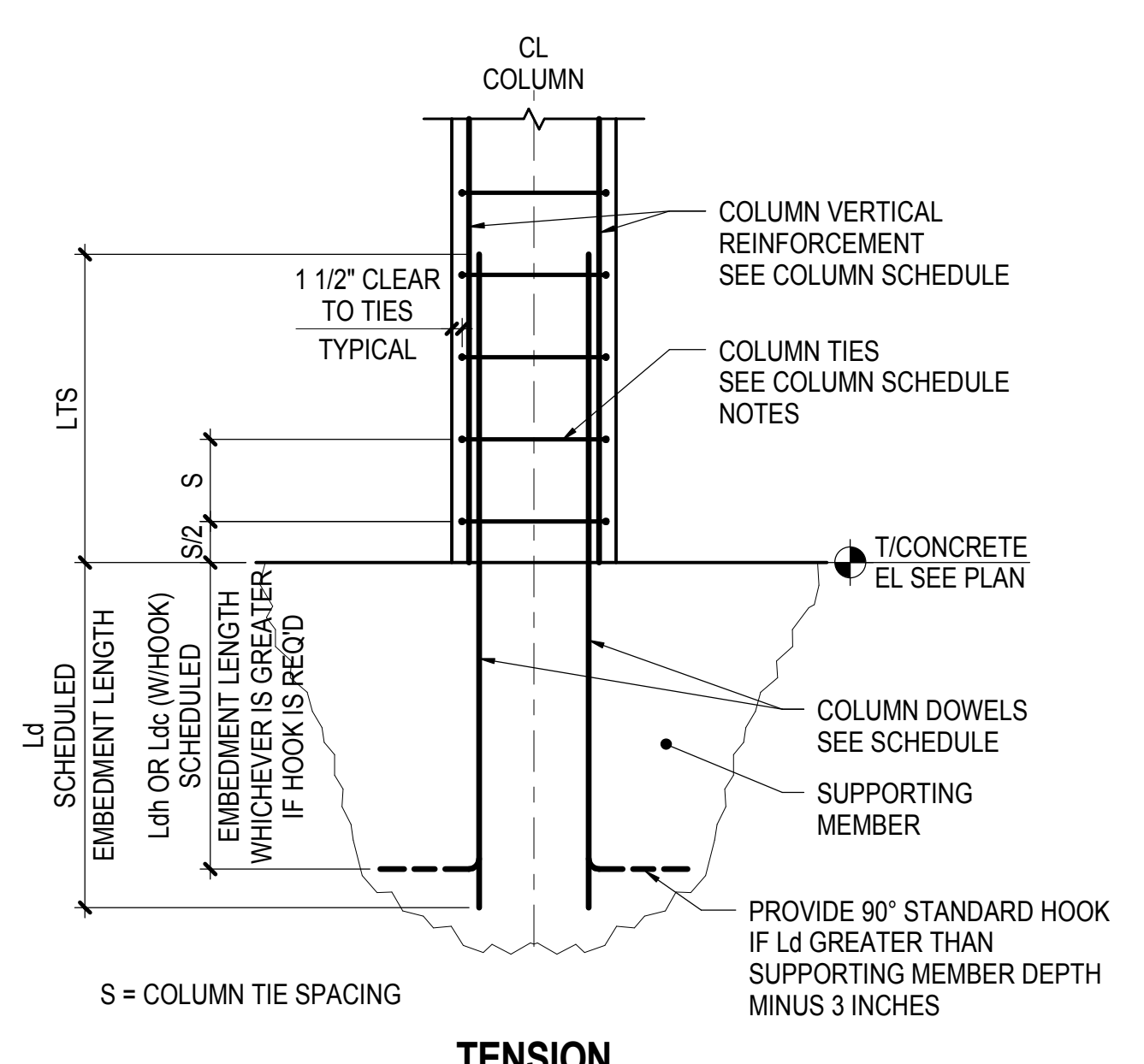
LIRR Ventilation  
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Tel: 212.896.3000

LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



- NOTES:**
- FOR ALL TYPES STAGGER ALL TIE HOOKS
  - FOR TYPE D TOTAL NUMBER OF BARS SHOULD BE SPACED AROUND PERIMETER IN SUCH A WAY AS TO ACHIEVE APPROXIMATELY EQUAL SPACING
  - FOR TYPE G TOTAL NUMBER OF BARS SHOULD BE SPACED AROUND PERIMETER IN SUCH A WAY AS TO ACHIEVE EQUAL SPACING ON THE TWO LONG SIDES

**1 COLUMN TYPES - BAR ARRANGEMENT**  
NOT TO SCALE



**2 TYPICAL BOTTOM OF COLUMN**  
NOT TO SCALE

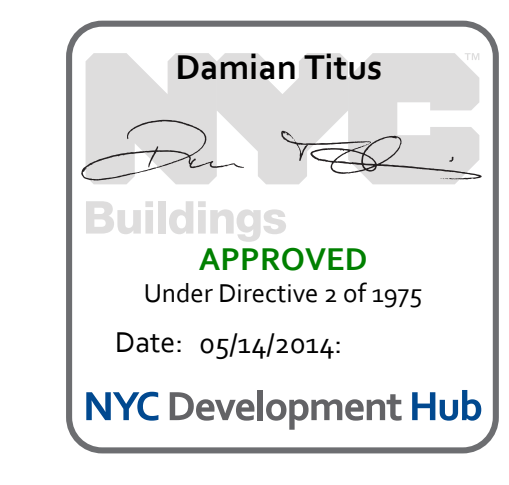
NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
MdE - PLATFORM SUBMISSION	
DE-02 PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
DE-01 PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
NYC Description	206

Rev. Plot

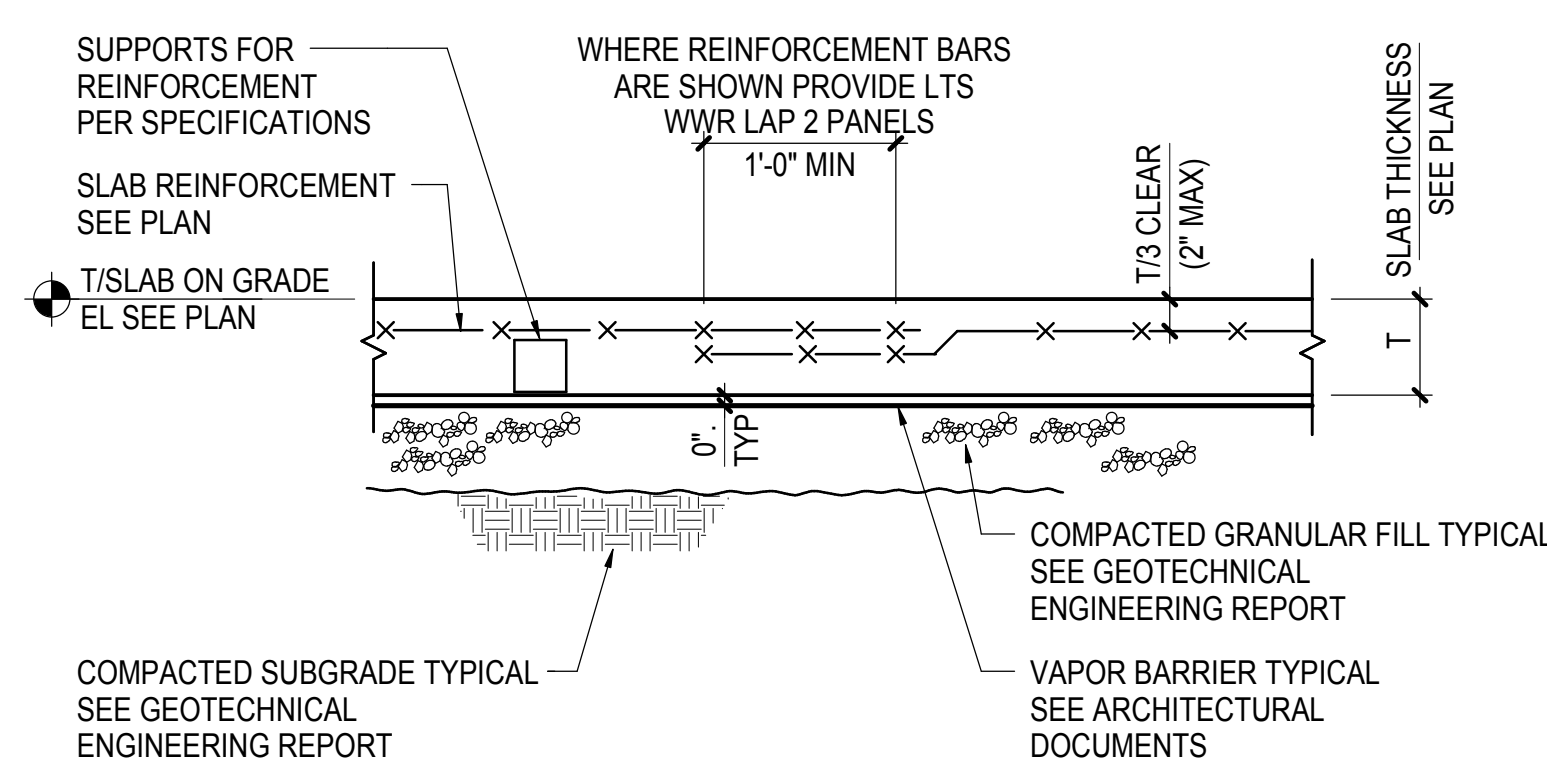
Date: 08/09/2013  
Project No: N11330.00  
Drawn By: Author  
Sheet Number: 182

**HYE-PL-S-732.00**  
Drawing Title  
**TYPICAL CONCRETE COLUMN PIER DETAILS**

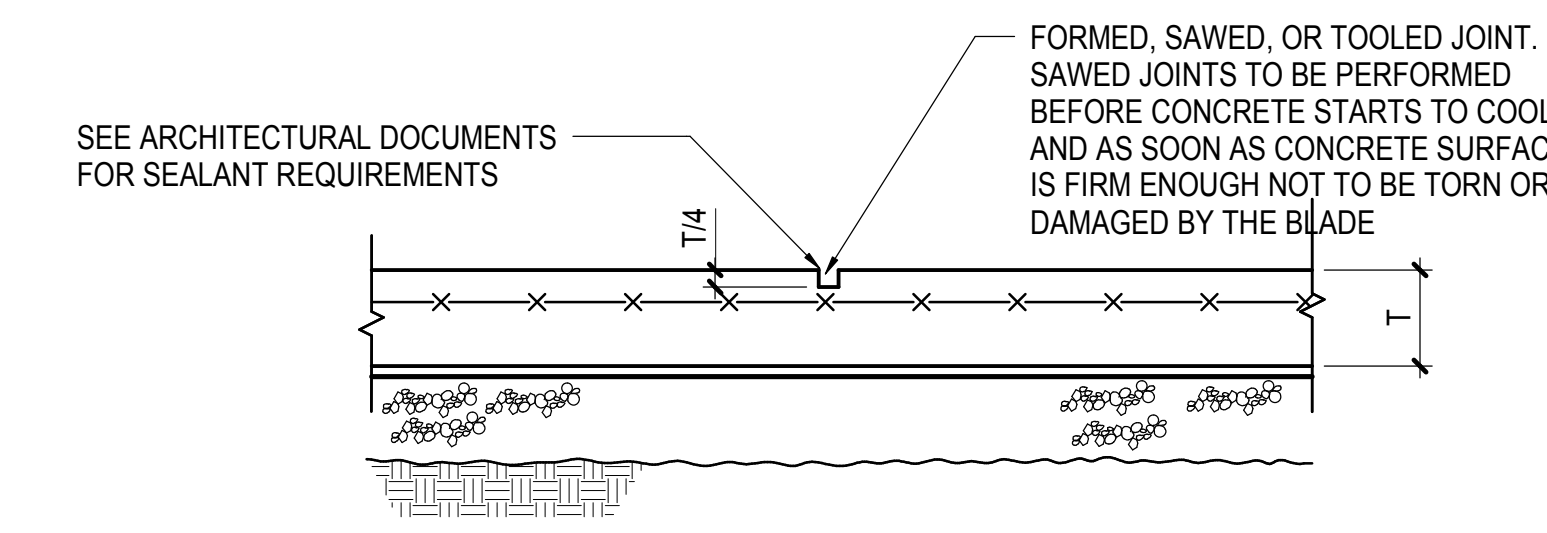
Drawing Number / B/S/C/S Drawing Number  
**S-732.00**  
SHEET 182 OF 201



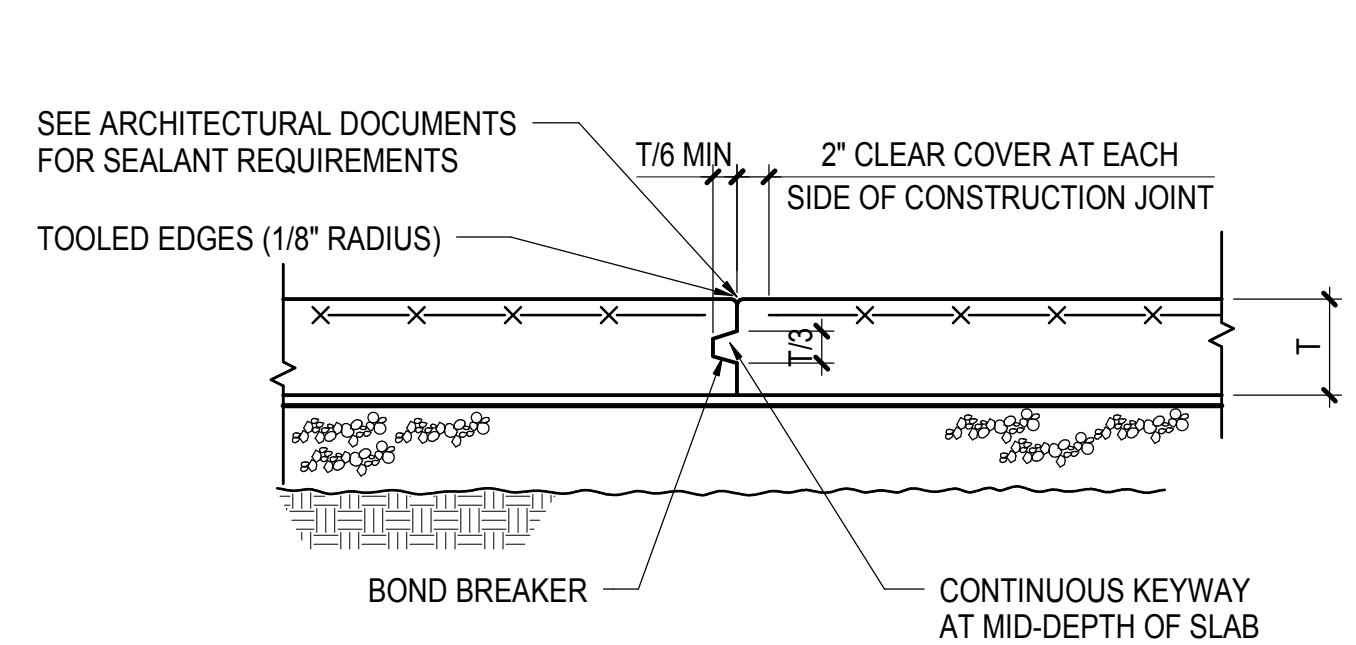




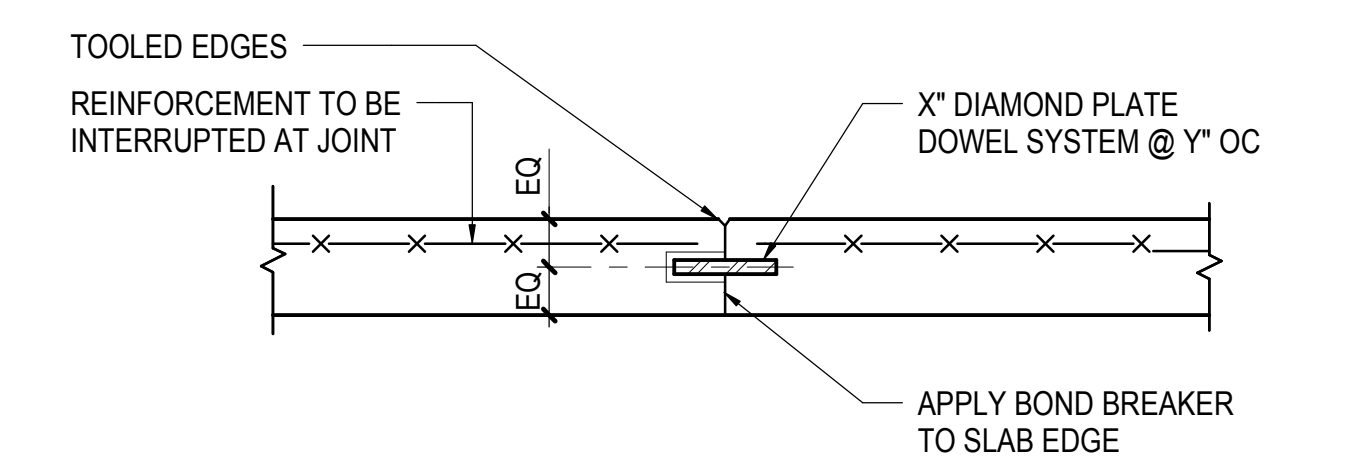
**SLAB ON GRADE**



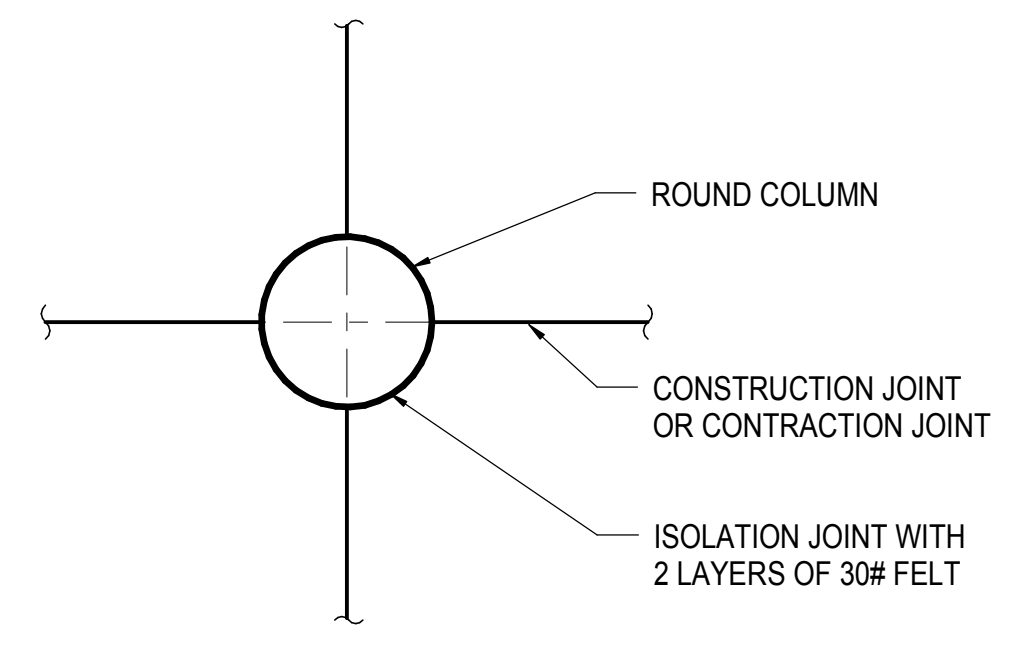
**CONTRACTION JOINT**



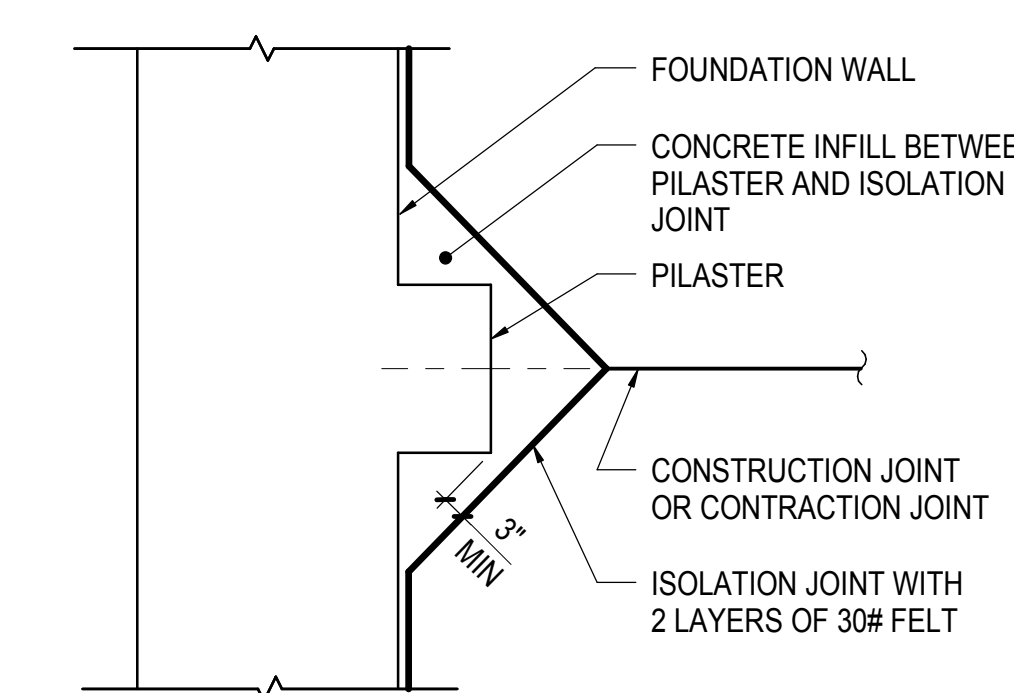
**CONSTRUCTION JOINT**



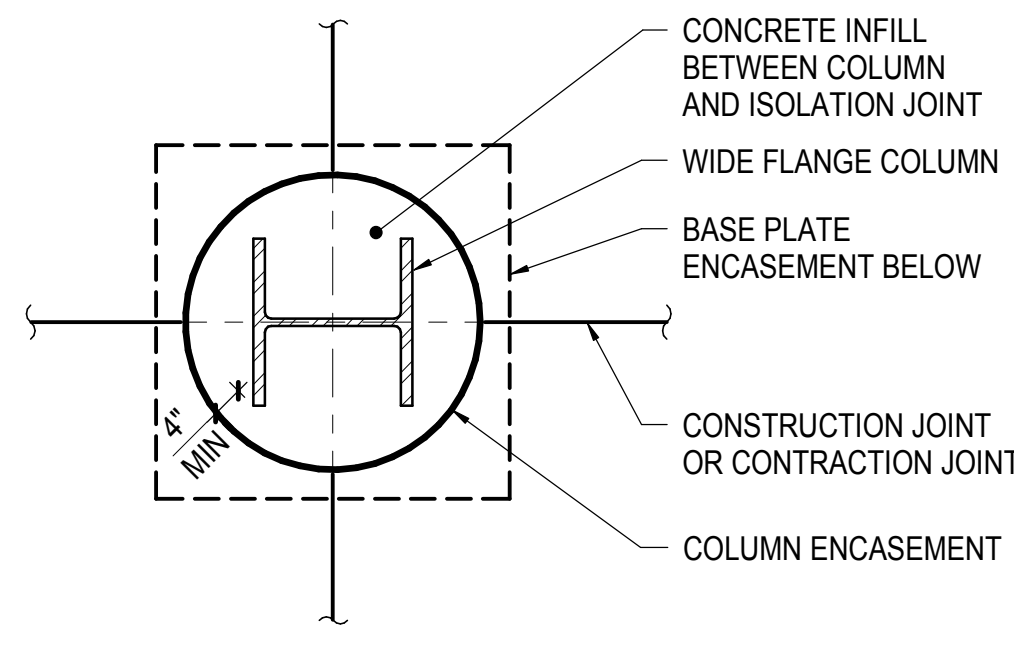
**DOWELED CONSTRUCTION JOINT (WHERE INDICATED ON PLAN)**



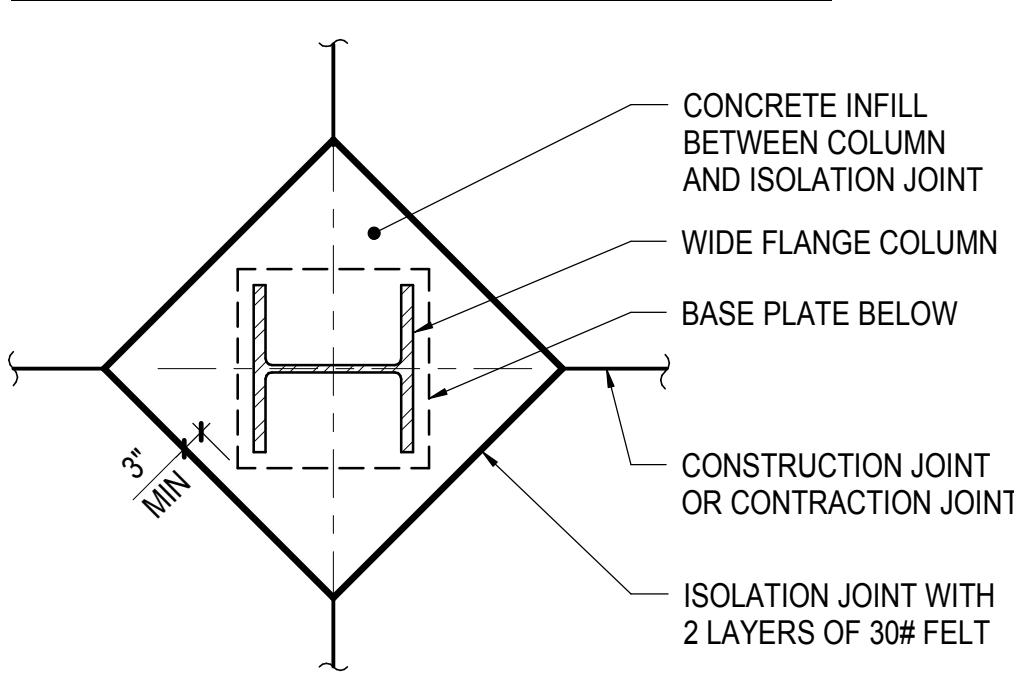
**ROUND COLUMN**



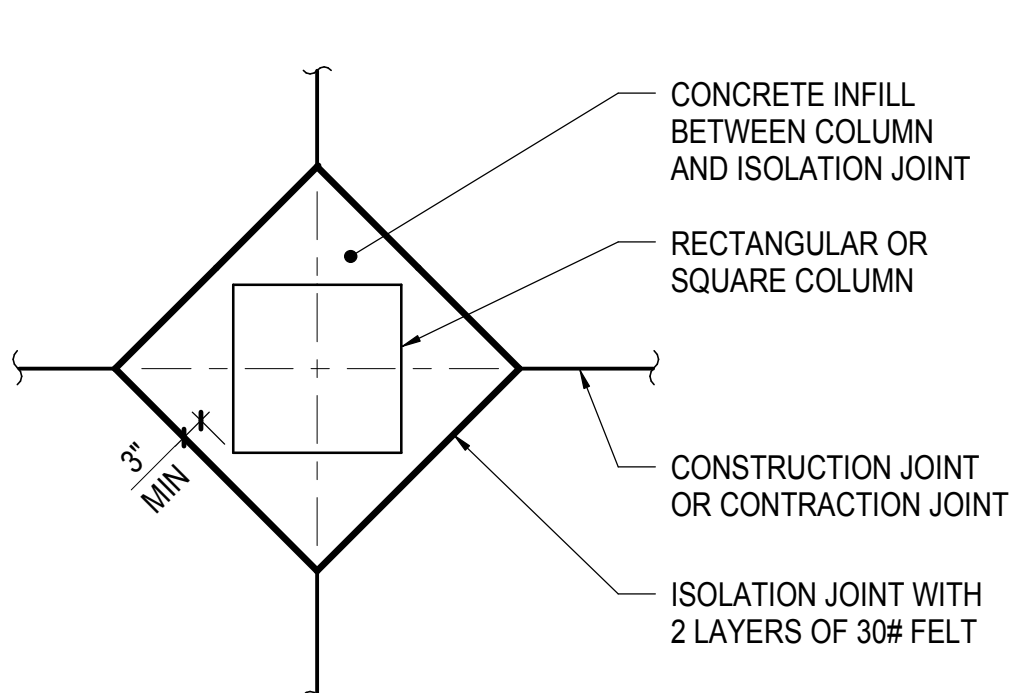
**PILASTER**



**CONCRETE ENCASED COLUMN AND BASE PLATE WHERE INDICATED ON PLAN**



**TYPICAL BASE PLATE WITHIN CONCRETE INFILL UON**

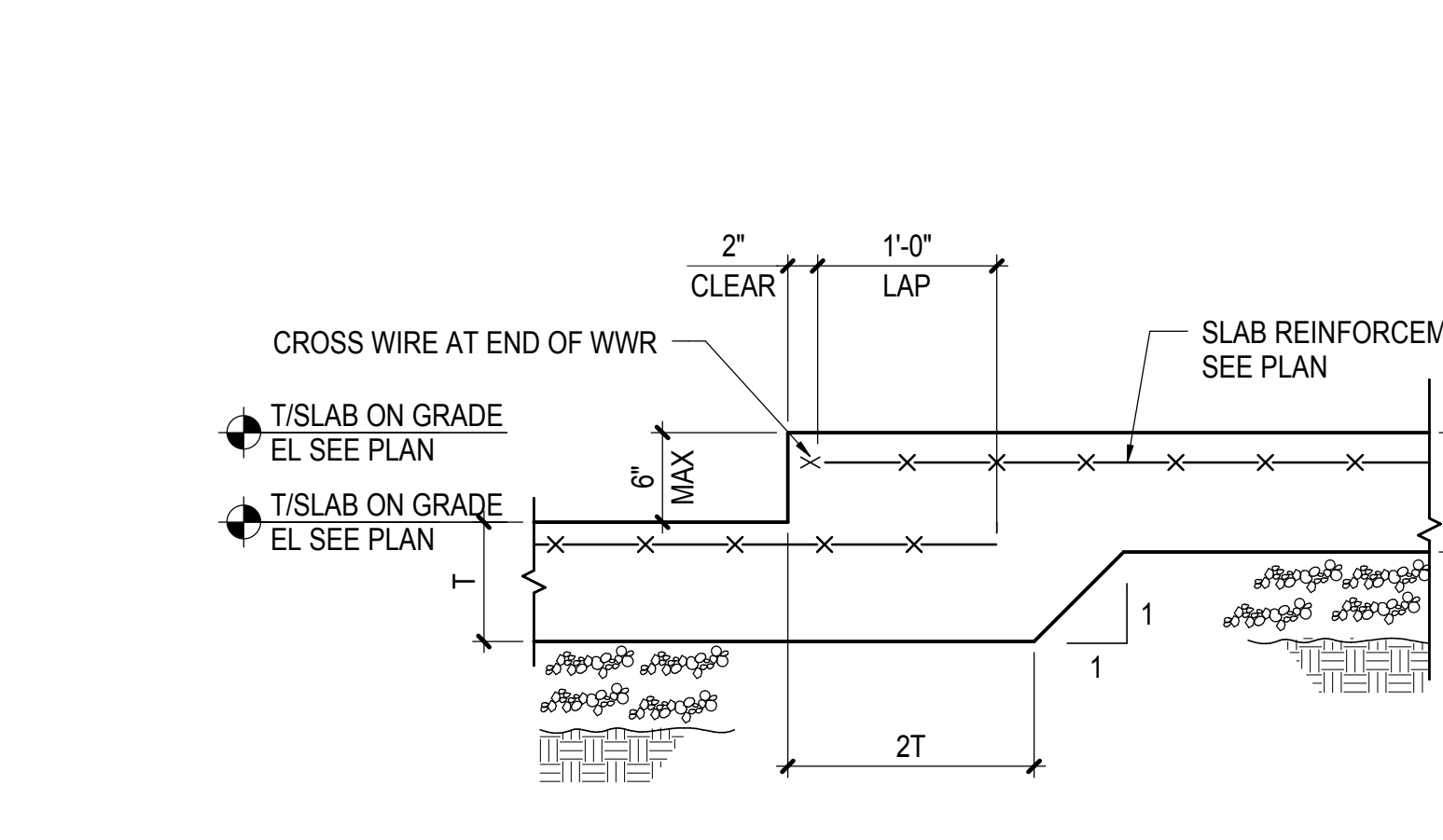


**RECTANGULAR OR SQUARE COLUMN**

**NOTE:**  
1. WHERE NOT INDICATED ON DRAWINGS PROVIDE JOINTS AT COLUMN CENTERLINES AND BETWEEN COLUMN CENTERLINES WITH SPACING OF JOINTS NOT TO EXCEED 36 TIMES THE SLAB THICKNESS (T-INCHES)

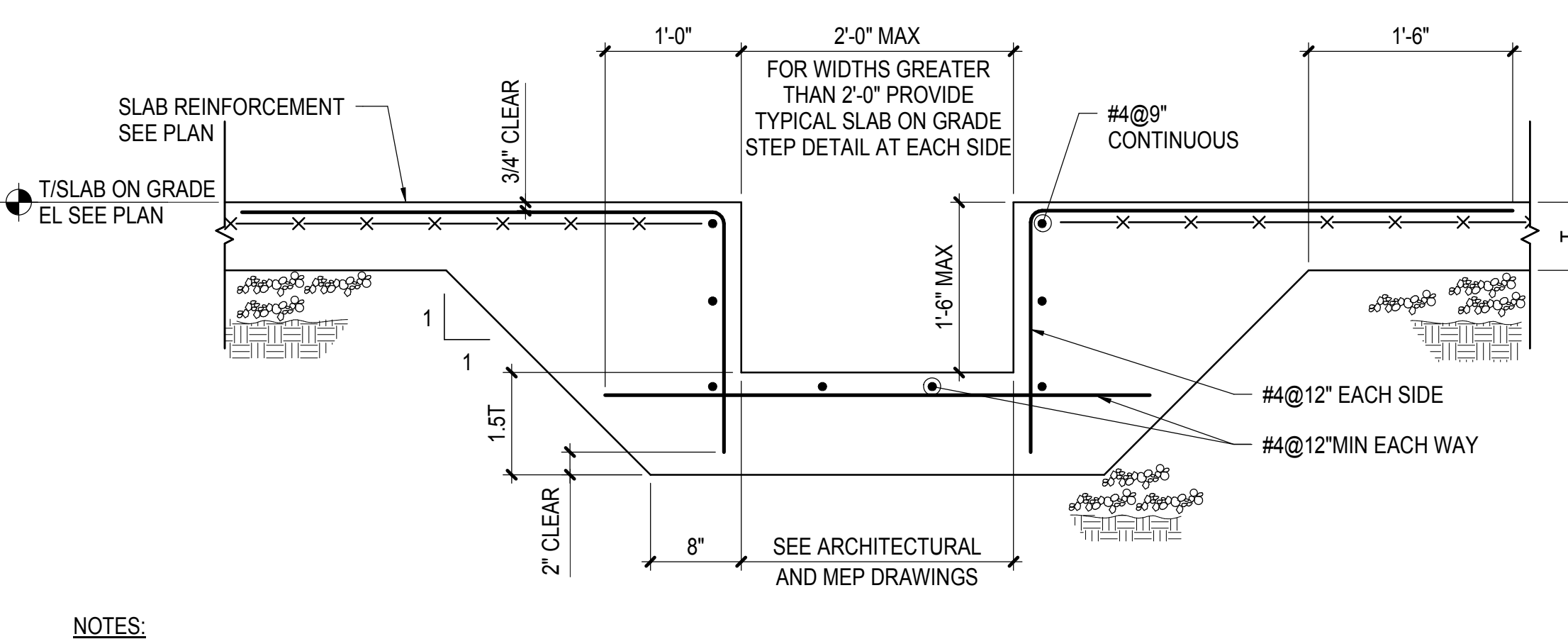
**NOTES:**  
1. SEE TYPICAL SLAB ON GRADE DETAILS FOR JOINT SPACING REQUIREMENTS  
2. CONCRETE INFILL BETWEEN COLUMN AND ISOLATION JOINT TO BE POURED AFTER ALL THE SLABS SUPPORTED BY THE COLUMN HAVE BEEN POURED

**1 TYPICAL SLAB ON GRADE DETAILS**  
NOT TO SCALE



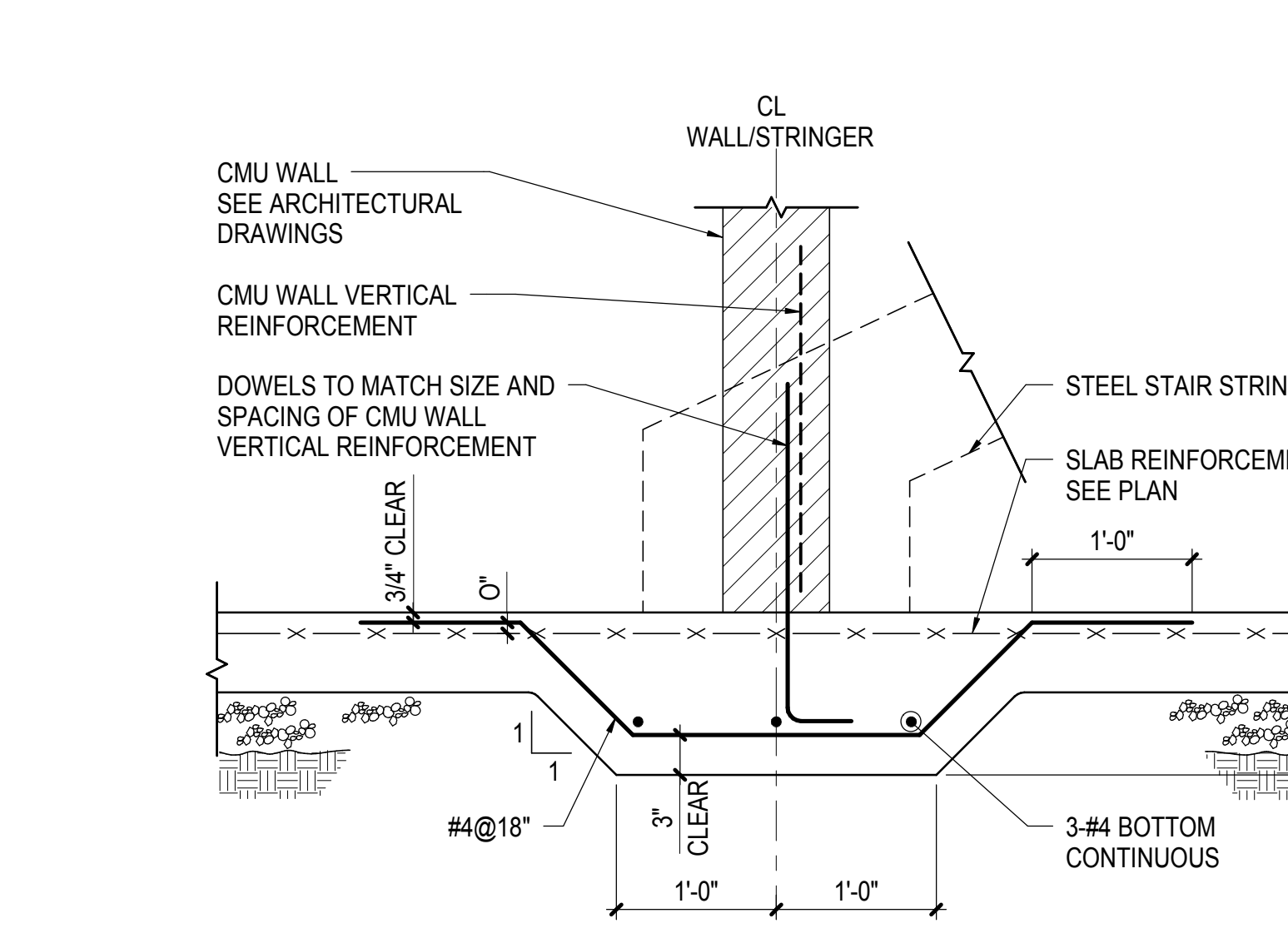
**NOTE:**  
1. SEE TYPICAL SLAB ON GRADE DETAILS FOR ADDITIONAL INFORMATION

**2 TYPICAL ISOLATION JOINT DETAILS AT SLAB ON GRADE**  
NOT TO SCALE



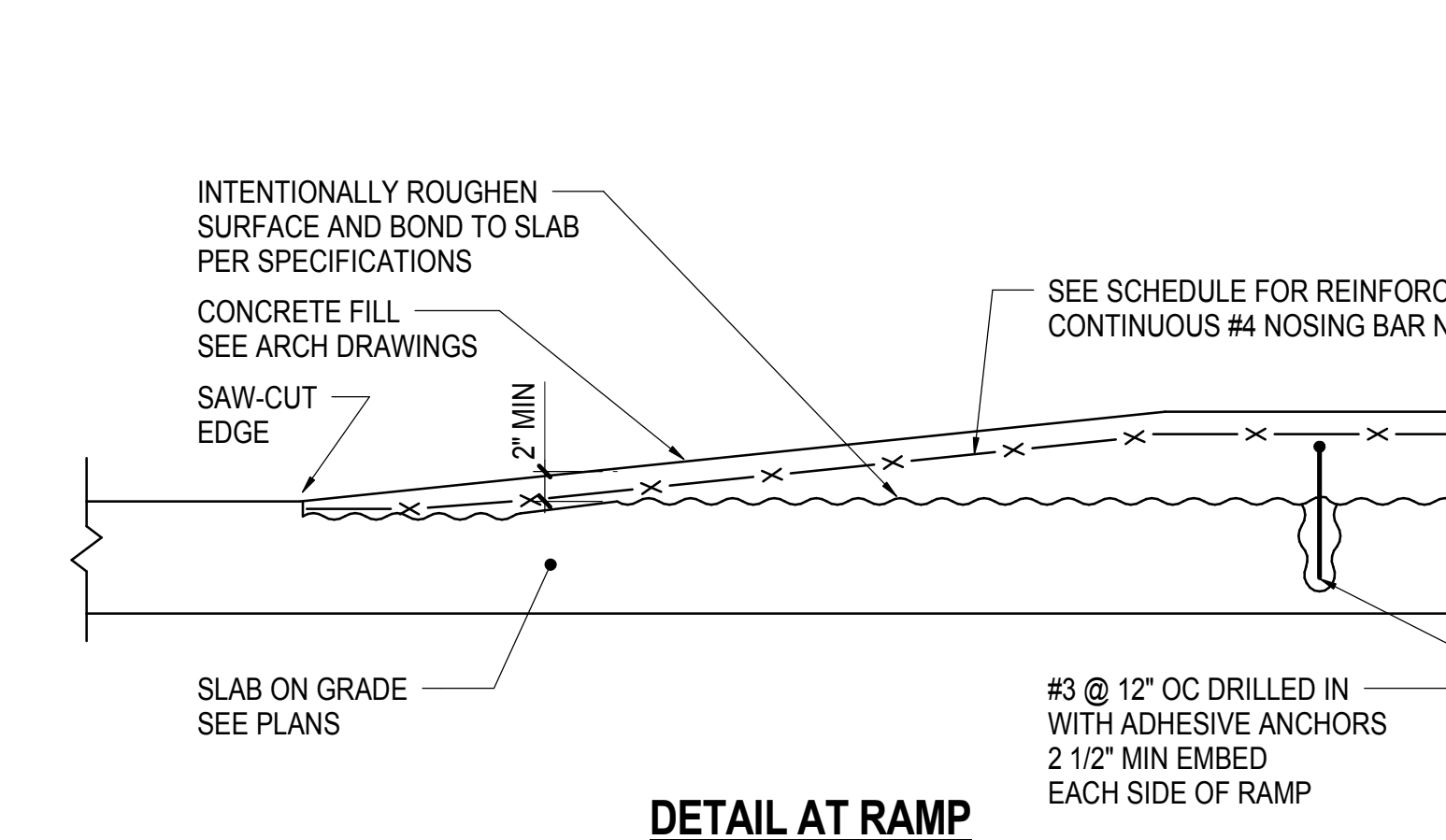
**NOTES:**  
1. COORDINATE WITH ARCHITECTURE AND MEP DRAWINGS FOR ADDITIONAL INFORMATION AND EMBEDMENTS  
2. SEE TYPICAL SLAB ON GRADE DETAILS FOR ADDITIONAL INFORMATION

**3 TYPICAL SLAB ON GRADE STEP 6\"/>**



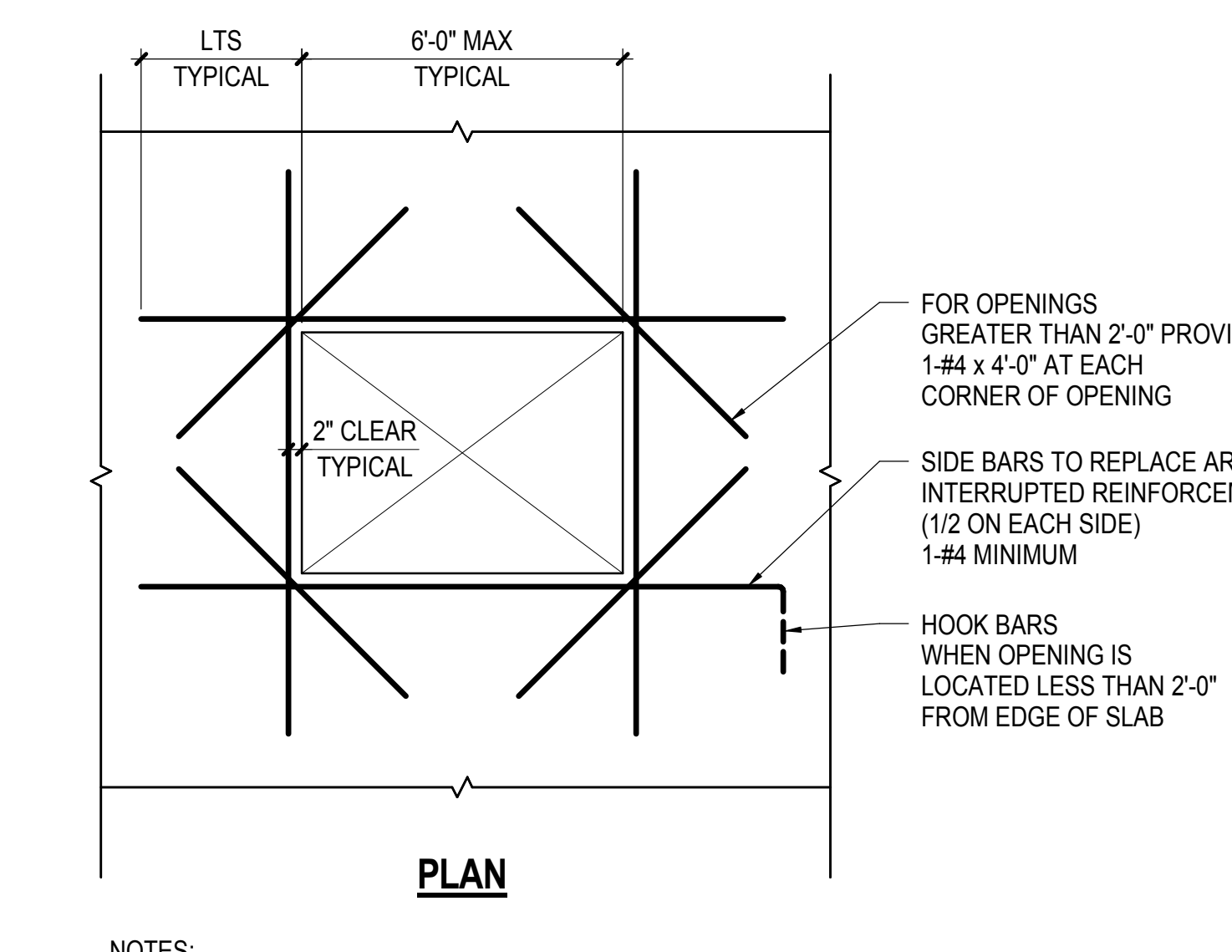
**NOTES:**  
1. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF WALLS AND STAIRS  
2. SEE TYPICAL SLAB ON GRADE DETAILS FOR MORE INFORMATION

**6 TYPICAL THICKENED SLAB ON GRADE AT NON-BEARING CMU WALL OR STAIR STRINGER**  
NOT TO SCALE



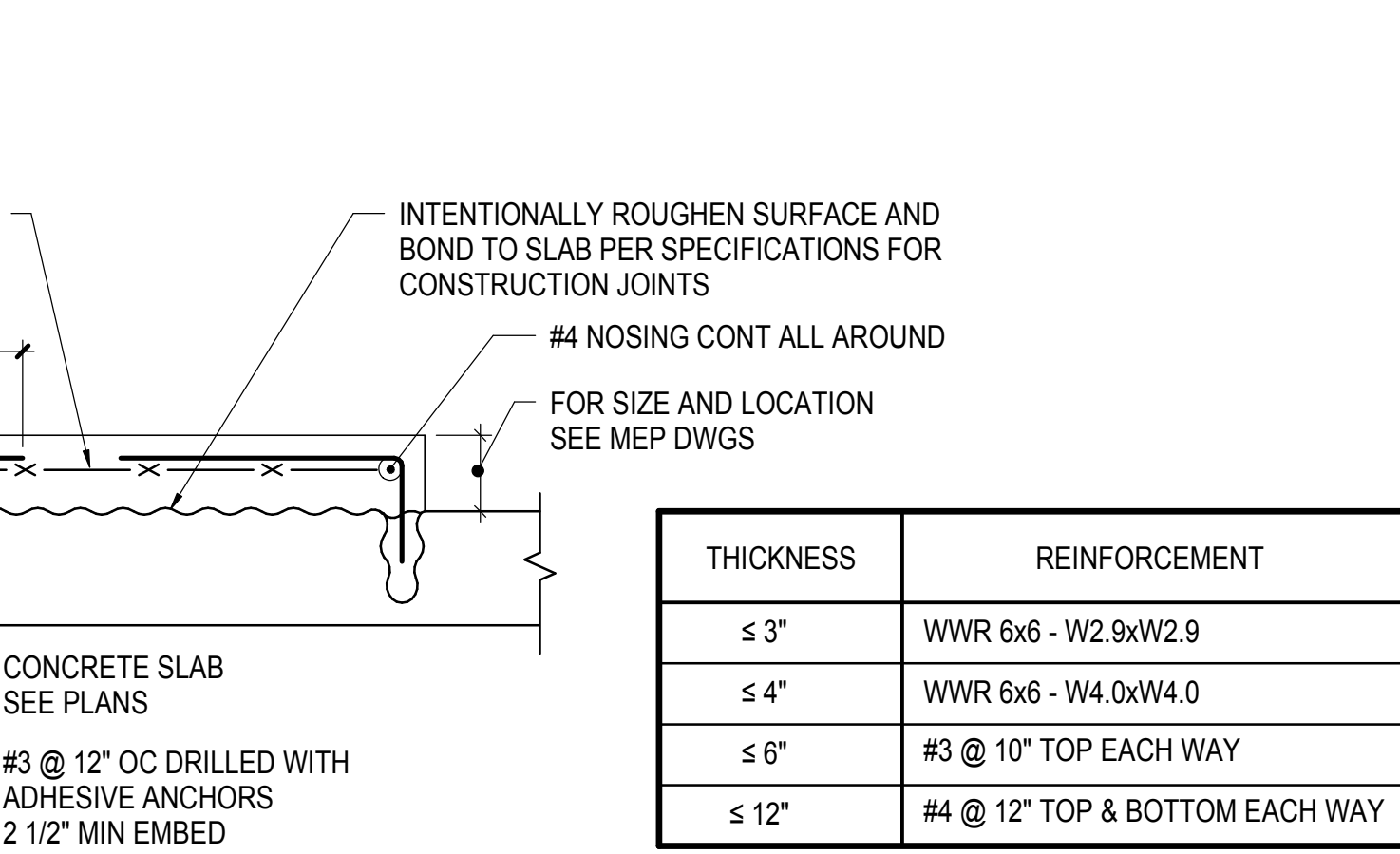
**NOTE:**  
1. THIS DETAIL IS NOT APPLICABLE TO GENERAL RAISED SLAB AREA HIGHER THAN 4\"/>

**4 TYPICAL SLAB ON GRADE STEP OVER 6\"/>**



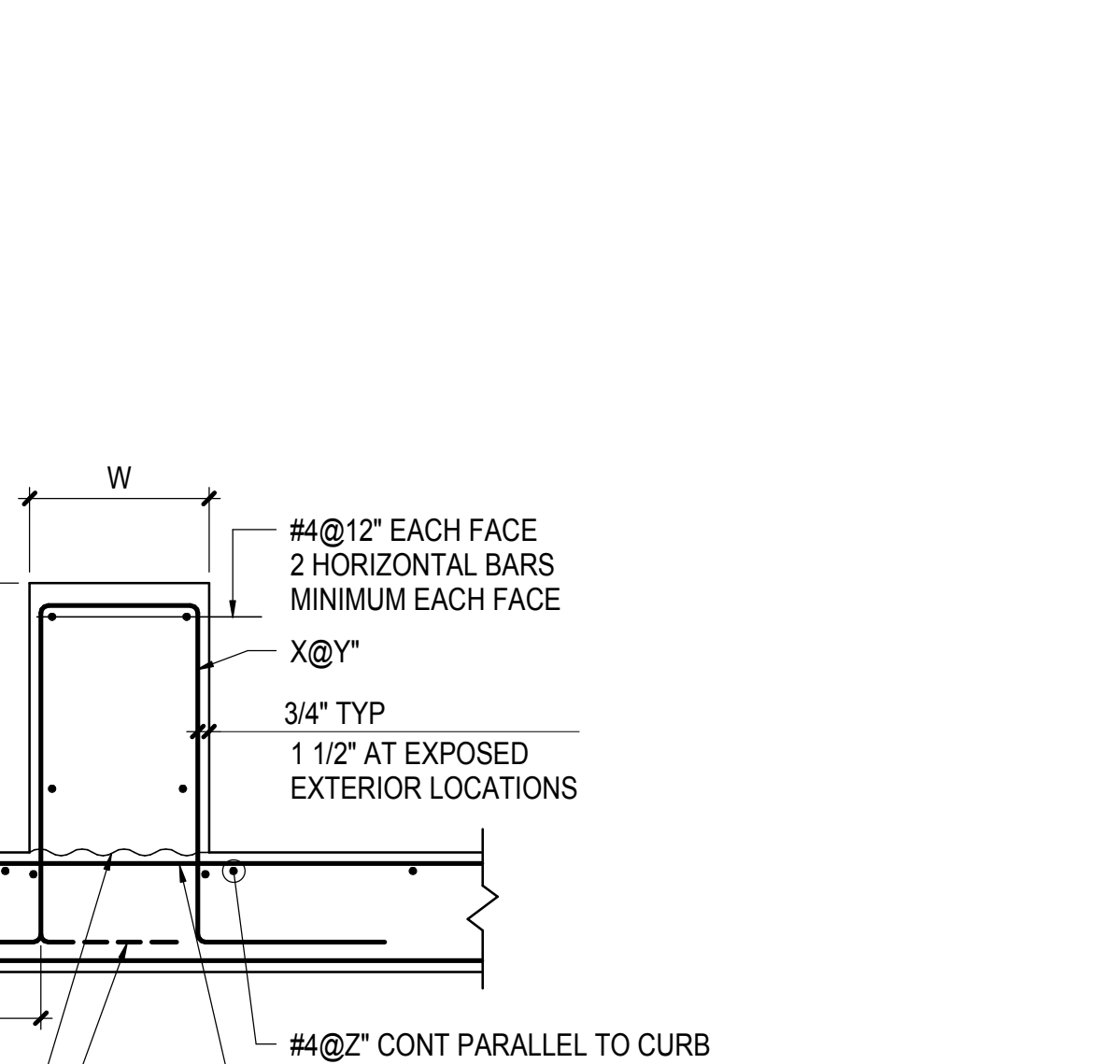
**NOTES:**  
1. FOR SIZE OF OPENINGS SEE ARCHITECTURAL DRAWINGS  
2. ADDITIONAL REINFORCEMENT IS NOT REQUIRED AT OPENINGS THAT DO NOT INTERRUPT THE TYPICAL REINFORCEMENT

**7 TYPICAL SLAB ON GRADE DETAIL OF ADDITIONAL REINFORCEMENT AT ANY OPENINGS OR AT STEP GREATER THAN 6\"/>**



THICKNESS	REINFORCEMENT
≤ 3"	WWR 6x6 - W2.9xW2.9
≤ 4"	WWR 6x6 - W4.0xW4.0
≤ 6"	#3 @ 10\"/>
≤ 12"	#4 @ 12\"/>

**5 TYPICAL TRENCH AT SLAB ON GRADE**  
NOT TO SCALE



**CURB WIDTH OVER 8\"/>**

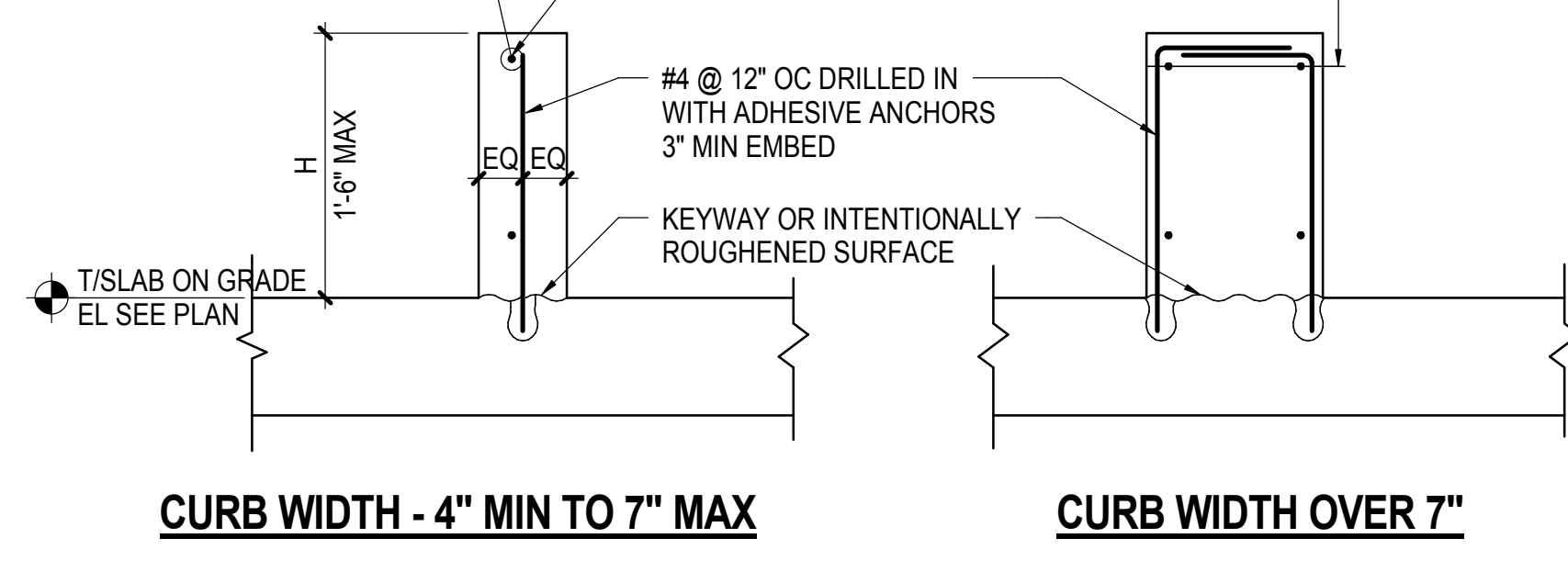
CURB DIMENSION AND REINFORCEMENT SCHEDULE			
W	H	X@Y	Z

**NOTES:**  
1. FOR SIZE AND LOCATION SEE ARCHITECTURE, MEP, OR STRUCTURAL DRAWINGS  
2. ROUGHEN SURFACE OF SLAB TO 1/4\"/>

**5 TYPICAL TRENCH AT SLAB ON GRADE**  
NOT TO SCALE



**CURB WIDTH - 4\"/>**



**NOTES:**  
1. FOR SIZE AND LOCATION SEE ARCHITECTURE, MEP, OR STRUCTURAL DRAWINGS  
2. ROUGHEN SURFACE OF SLAB TO 1/4\"/>

**8 TYPICAL DETAIL OF CONCRETE FILL HOUSEKEEPING PAD / MECHANICAL PAD / RAMP**  
NOT TO SCALE



**NOTE:**  
1. THIS DETAIL IS NOT APPLICABLE TO GENERAL RAISED SLAB AREA HIGHER THAN 4\"/>

**9 TYPICAL CURB DETAIL (SUBJECT TO LATERAL LOADS)**  
NOT TO SCALE

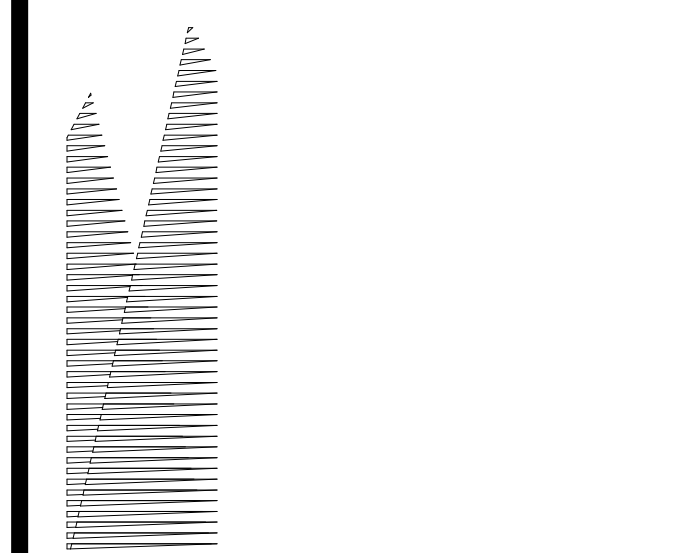


**NOTES:**  
1. FOR SIZE AND LOCATION SEE ARCHITECTURE, MEP, OR STRUCTURAL DRAWINGS  
2. ROUGHEN SURFACE OF SLAB TO 1/4\"/>

**10 TYPICAL CURB DETAILS (NOT SUBJECT TO LATERAL LOADS)**  
NOT TO SCALE



**NOTES:**  
1. FOR SIZE AND LOCATION SEE ARCHITECTURE, MEP, OR STRUCTURAL DRAWINGS  
2. ROUGHEN SURFACE OF SLAB TO 1/4\"/>



**Client**  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

**Contractor**  
Oxford Properties Group  
320 Park Avenue, 17th Floor  
New York, NY 10022  
Tel: 212.986.7514 Fax: 212.986.7510

**Construction Manager**  
Fishman Construction Corporation  
100 Park Avenue, 5th Floor  
New York, NY 10017  
Tel: 212.708.3600

**Architect**  
Kohn Pedersen Fox Associates PC  
PC Architects & Planning Consultants  
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New York, New York 10036  
Tel: 212.977.6500 Fax: 212.956.2526

**Structural Engineer**  
Thornton Tomasetti, Inc.  
51 Madison Avenue  
New York, NY 10010  
Tel: 917.661.7800 Fax: 718.661.7801

**Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security**  
Parsons Transportation Group  
100 Broadway  
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Tel: 212.266.8300 Fax: 212.571.6825

**LIRR Ventilation**  
Ove Arup & Partners P.C.  
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Tel: 212.896.3000

**LIRR Substation**  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172

NO.	DESCRIPTION	DATE
1	NYC DOB FILING	12/4/2013
2	L.I.R.R. - PRE-FINAL 100%	11/22/2013
3	M&E - PLATFORM SUBMISSION	
4	DH-02 PHASE I STRUCTURAL UPDATE	11/17/2013
5	NYC DOB FILING	10/24/2013
6	DL-01 PHASE I STRUCTURE UPDATE	9/20/2013
7	L.I.R.R. - 90% SUBMISSION	8/09/2013
8	NYC DOB FILING	8/09/2013

NO.	DESCRIPTION	DATE
1	NYC DOB FILING	12/4/2013
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8	NYC DOB FILING	8/09/2013

Date: 08/09/2013  
Project No: N11330.00  
Drawing No: Author  
Scale: As Shown

**Damian Titus**  
Building APPROVED Under Directive s of 1975 Date: 05/14/2014  
NYC Development Hub

**HYE-PL-S-733.00**  
TYPICAL SLAB ON GRADE DETAILS



WALL THICKNESS t	MAXIMUM WALL HEIGHT H	VERTICAL REINFORCEMENT (SEE NOTE 1)		
		5 PSF	10 PSF	30 PSF
6"	12'-0"	#4 @ 120"	#4 @ 96"	#4 @ 32"
	14'-0"	#4 @ 120"	#4 @ 84"	#5 @ 32"
	17'-0"	#4 @ 120"	#4 @ 72"	#5 @ 32"
8"	12'-0"	#4 @ 120"	#4 @ 120"	#4 @ 48"
	14'-6"	#4 @ 120"	#4 @ 96"	#4 @ 32"
	17'-0"	#4 @ 120"	#4 @ 72"	#5 @ 32"
10"	12'-0"	#4 @ 120"	#4 @ 120"	#4 @ 48"
	14'-0"	#4 @ 120"	#4 @ 112"	#4 @ 32"
	17'-0"	#4 @ 120"	#4 @ 84"	#5 @ 32"
12"	12'-0"	#4 @ 120"	#4 @ 112"	#4 @ 32"
	14'-0"	#4 @ 120"	#4 @ 96"	#4 @ 48"
	17'-0"	#4 @ 120"	#4 @ 72"	#5 @ 32"

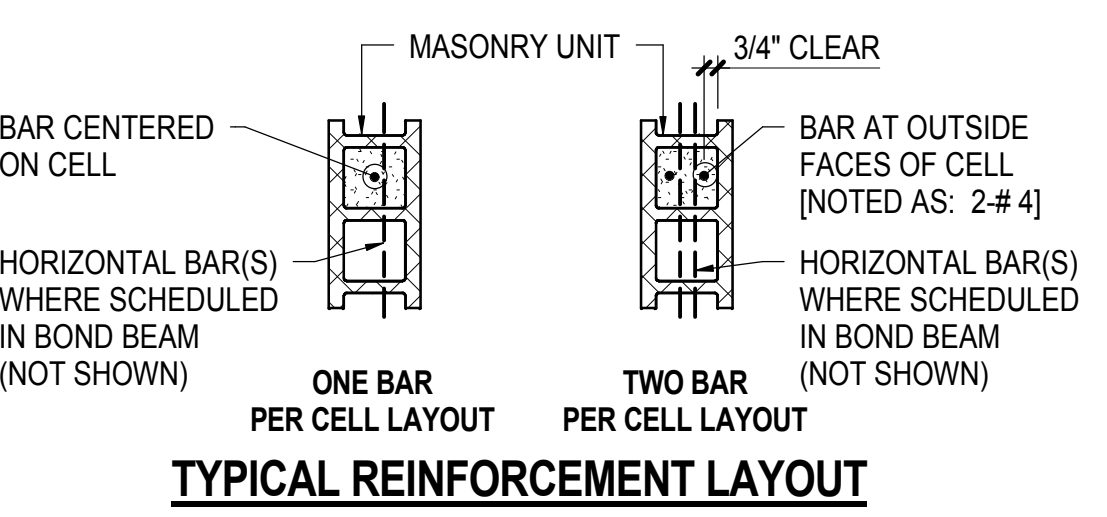
**VERTICAL REINFORCEMENT SCHEDULE**

- NOTES:**
- PROVIDE THE GREATER QUANTITY OF TYPICAL MINIMUM VERTICAL REINFORCEMENT AS SHOWN IN THE VERTICAL REINFORCEMENT SCHEDULE OR THE SEISMIC SCHEDULE AS FOLLOWS FOR THE FOLLOWING WALL TYPE AND DESIGN PRESSURE, UON
    - TYPICAL INTERIOR WALLS 5 PSF
    - INTERIOR ELEVATOR SHAFT WALLS 10 PSF
    - EXTERIOR WALLS 30 PSF
    - SEISMIC
 SEE MINIMUM SEISMIC REINFORCEMENT SCHEDULE
  - PROVIDE THE FOLLOWING TYPICAL MINIMUM HORIZONTAL REINFORCEMENT:
    - INTERIOR WALLS: 2 - 9 GAGE WIRES AT EVERY OTHER COURSE
    - EXTERIOR WALLS: 2 - 3/16" DIA WIRES AT EVERY OTHER COURSE
    - SEISMIC DESIGN CATEGORY D, E, AND F PROVIDE HORIZONTAL REINFORCEMENT USING BOND BEAMS AS FOLLOWS:
      - 1 #4 @ 48" OC FOR 6" THICK WALL
      - 2 #4 @ 48" OC FOR WALLS > 6" THICK
  - FOR LOCATION AND THICKNESS OF MASONRY WALLS SEE ARCHITECTURAL DRAWINGS
  - VERTICAL REINFORCEMENT SCHEDULE IS BASED ON DESIGN SERVICE LOAD PRESSURE AS NOTED
  - 'H' INDICATES HEIGHT OF WALL BETWEEN LATERAL SUPPORT POINTS
  - DESIGN OF MASONRY WALL IS BASED ON PARTIALLY GROUTED WALLS WITH REINFORCEMENT AS SCHEDULED
  - DESIGN IS BASED ON A MINIMUM COMPRESSIVE STRENGTH  $f_m = 1500$  PSI/MN FOR PROJECT SPECIFIC  $f_m$  REFER TO GENERAL NOTES ON S0 SERIES DRAWINGS
  - VERTICAL REINFORCEMENT SHALL BE SECURED WITH WIRE POSITIONERS ETC. AT INTERVALS NOT TO EXCEED 48"; AND BE LOCATED AT THE CENTER OF THE WALL UON
  - SEE ELEVATIONS AND DETAILS FOR ADDITIONAL REINFORCEMENT AT OPENINGS AND JOINTS

SEISMIC DESIGN CATEGORY	$S_{DS}$	DESIGN PRESSURE (PSF) OR REINFORCEMENT			
		6" WALL	8" WALL	10" WALL	12" WALL
A OR B [A ONLY]	ALL	5	5	5	5
C [OR B]	<0.25	5	5[10]	5[10]	10
	<0.50	5	10	10	10 [30]
D, E, OR F	<1.0 [0.67]	#5 @ 32"	#5 @ 32"	#6 @ 32"	#6 @ 24"

- SEISMIC TABLE NOTES:**
- REFER TO GENERAL NOTES ON S0 SERIES DRAWINGS FOR APPLICABLE SEISMIC DESIGN CATEGORY
  - FOR SEISMIC USE GROUP IV FACILITIES AND FOR WALLS WITH COMPONENT IMPORTANCE FACTOR,  $I_p=1.5$ , VALUES INDICATED IN [ ] SHALL BE USED
  - REINFORCEMENT IS BASED ON THE FOLLOWING CRITERIA: UON: FULL HEIGHT WALLS WITHIN LIMITS OF VERTICAL REINFORCEMENT SCHEDULE
    - $ap=1.0$
    - $R_p=2.5$
    - $z/H=1$  (WALL AT TOP OF STRUCTURE)
  - FOR WALL TYPES NOT INDICATED IN THE SCHEDULE SER SHALL BE IMMEDIATELY NOTIFIED
  - SEISMIC MASS IS BASED ON PARTIALLY GROUTED WALLS

**MINIMUM SEISMIC REINFORCEMENT SCHEDULE**



**1 TYPICAL CMU NON-BEARING WALL REINFORCEMENT SCHEDULE**

WALL THICKNESS t	MAXIMUM WALL HEIGHT H	MAX CLEAR MASONRY OPENING (SEE NOTE 4)	5 PSF			10 PSF			30 PSF		
			JAMB ZONE WIDTH W1 OR W2	PIER ZONE LENGTH (NOTE 2)	WALL REINF EACH CELL	JAMB ZONE WIDTH W1 OR W2	PIER ZONE LENGTH (NOTE 2)	WALL REINF EACH CELL	JAMB ZONE WIDTH W1 OR W2	PIER ZONE LENGTH (NOTE 2)	WALL REINF EACH CELL
6"	12'-0"	4'-0"	8"	16"	#4	8"	16"	#4	16"	32"	#4
		7'-0"	8"	16"	#4	8"	16"	#4	24"	40"	#4
		12'-0"	8"	16"	#4	16"	24"	#4	40"	64"	#4
	14'-0"	4'-0"	8"	16"	#4	8"	16"	#4	24"	32"	#5
		7'-0"	8"	16"	#4	16"	16"	#4	32"	48"	#5
		12'-0"	8"	16"/24"	#4	16"	32"	#4	40"	72"	#5
8"	12'-0"	4'-0"	8"	16"	#4	8"	16"	#4	16"	16"	#4
		7'-0"	8"	16"	#4	8"	16"	#4	24"	40"	#4
		12'-0"	8"	16"	#4	16"	24"	#4	40"	40"	#4
	14'-6"	4'-0"	8"	16"	#4	8"	16"	#4	24"	40"	#4
		7'-0"	8"	16"	#4	16"	16"	#4	32"	56"	#4
		12'-0"	8"	16"/24"	#4	16"	16"/24"	#4	32"	56"	#4
	17'-0"	4'-0"	8"	16"	#4	8"	16"	#4	16"	32"	#5
		7'-0"	8"	16"	#4	16"	16"	#4	24"	40"	#5
		12'-0"	8"	16"/24"	#4	16"	24"	#4	40"	64"	#5
	19'-0"	4'-0"	8"	16"	#4	16"	16"	#4	16"	32"	#6
		7'-0"	8"	16"	#4	16"	24"	#4	24"	40"	#6
		12'-0"	16"	16"/24"	#4	24"	40"	#4	40"	64"	#6
10"	13'-6"	4'-0"	8"	16"	#4	8"	16"	#4	16"	16"	#4
		7'-0"	8"	16"	#4	8"	16"	#4	16"	24"	#4
		12'-0"	8"	16"/24"	#4	8"	16"/24"	#4	16"	24"	2#4
	16'-0"	4'-0"	8"	16"	#4	8"	16"	#4	16"	24"	#4
		7'-0"	8"	16"	#4	8"	16"	#4	16"	24"	2#4
		12'-0"	8"	16"/24"	#4	16"	16"/24"	#4	16"	32"	2#4
20'-0"	4'-0"	8"	16"	#4	8"	16"	#4	8"	16"	2#5	
	7'-0"	8"	16"/24"	#4	16"	16"/24"	#4	16"	24"	2#5	
	12'-0"	8"	16"/32"	#4	16"	24"/32"	#4	24"	32"	2#5	
23'-6"	4'-0"	8"	16"	#4	16"	16"	#4	16"	16"	2#6	
	7'-0"	16"	16"/24"	#4	16"	24"	#4	16"	24"	2#6	
	12'-0"	16"	24"/32"	#4	24"	40"	#4	24"	40"	2#6	
12"	14'-0"	4'-0"	8"	16"	#4	8"	16"	#4	8"	16"	#4
		7'-0"	8"	16"	#4	8"	16"	#4	16"	16"	#4
		12'-0"	8"	16"/24"	#4	8"	16"/24"	#4	16"	16"/24"	2#4
	18'-0"	4'-0"	8"	16"	#4	8"	16"	#4	8"	16"	2#4
		7'-0"	8"	16"	#4	8"	16"	#4	16"	16"	2#4
		12'-0"	8"	16"/24"	#4	16"	16"/24"	#4	16"	24"	2#4
	22'-6"	4'-0"	8"	16"	#4	8"	16"	#4	8"	16"	2#5
		7'-0"	8"	16"/24"	#4	16"	16"/24"	#4	16"	24"	2#5
		12'-0"	8"	16"/32"	#4	16"	24"/32"	#4	16"	32"	2#5
	26'-0"	4'-0"	8"	16"	#4	16"	16"	#4	8"	16"	2#6
		7'-0"	8"	16"/24"	#4	16"	24"	#4	16"	24"	2#6
		12'-0"	16"	16"/40"	#4	24"	32"/40"	#4	24"	32"/40"	2#6
29'-0"	4'-0"	8"	16"/24"	#4	16"	24"	#4	16"	16"/24"	2#6	
	7'-0"	16"	24"/32"	#4	24"	32"	#4	16"	32"	2#6	
		12'-0"	16"	32"/40"	#4	32"	48"	#4	24"	40"	2#6

**3 TYPICAL CMU NON-BEARING WALL JAMB AND PIER ZONE SCHEDULE**

NOT TO SCALE

**2 TYPICAL CMU SILL AND LINTEL SCHEDULE (NON-BEARING WALL)**

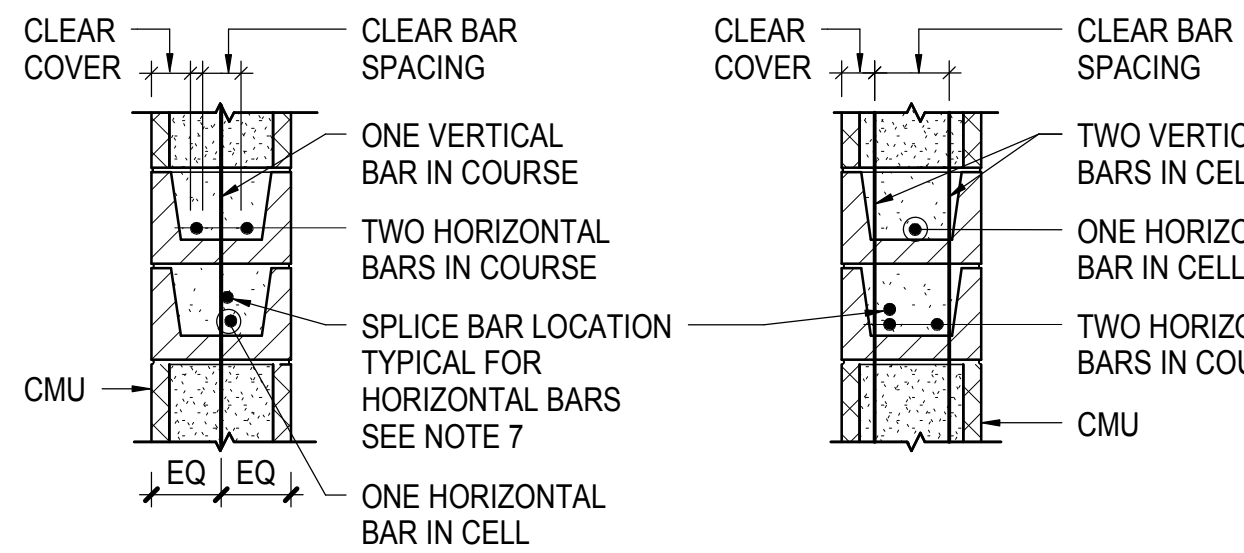
MAXIMUM MASONRY OPENING L	WALL THICKNESS			
	6" WALL	8" WALL	10" WALL	12" WALL
4'-0"	2L - 2.5 x 2.5 x 1/4	2L - 3.5 x 3 x 1/4 LLV	2L - 4 x 4 x 1/4	2L - 5 x 5 x 5/16
5'-0"	2L - 3 x 2.5 x 1/4 LLV	2L - 3.5 x 3 x 1/4 LLV	2L - 4 x 4 x 1/4	2L - 5 x 5 x 5/16
6'-0"	2L - 3 x 2.5 x 1/4 LLV	2L - 3.5 x 3 x 1/4 LLV	2L - 4 x 4 x 1/4	2L - 5 x 5 x 5/16
7'-0"	2L - 3.5 x 2.5 x 5/16 LLV	2L - 5 x 3 x 1/4 LLV	2L - 4 x 4 x 5/16	2L - 5 x 5 x 5/16
8'-0"	2L - 3.5 x 2.5 x 3/8 LLV	2L - 5 x 3 x 5/16 LLV	2L - 6 x 4 x 3/8 LLV	2L - 5 x 5 x 5/16
10'-0"	W8 x 10	2L - 5 x 3 x 3/8 LLV	2L - 6 x 4 x 3/8 LLV	W8 x 24 + 1/4"x10" PLATE
12'-0"	W8 x 10	2L - 6 x 3.5 x 3/8 LLV	2L - 7 x 4 x 3/8 LLV	W8 x 24 + 1/4"x10" PLATE

**2 TYPICAL CMU SILL AND LINTEL SCHEDULE (NON-BEARING WALL)**

NOT TO SCALE

**CMU LAP SPlice AND TENSION EMBEDMENT LENGTH**  
( $f_m = 1500$  psi &  $f_y = 60$  ksi)

SCHEDULED REINFORCEMENT CONDITION	BAR SIZE		
	#4	#5	#6
ONE BAR IN CELL OR COURSE (NOTE 1)	24"	26"	40"
TWO BARS IN CELL OR COURSE	36"	45"	54"



**5 CMU LAP SPlice AND TENSION EMBEDMENT LENGTH SCHEDULE**

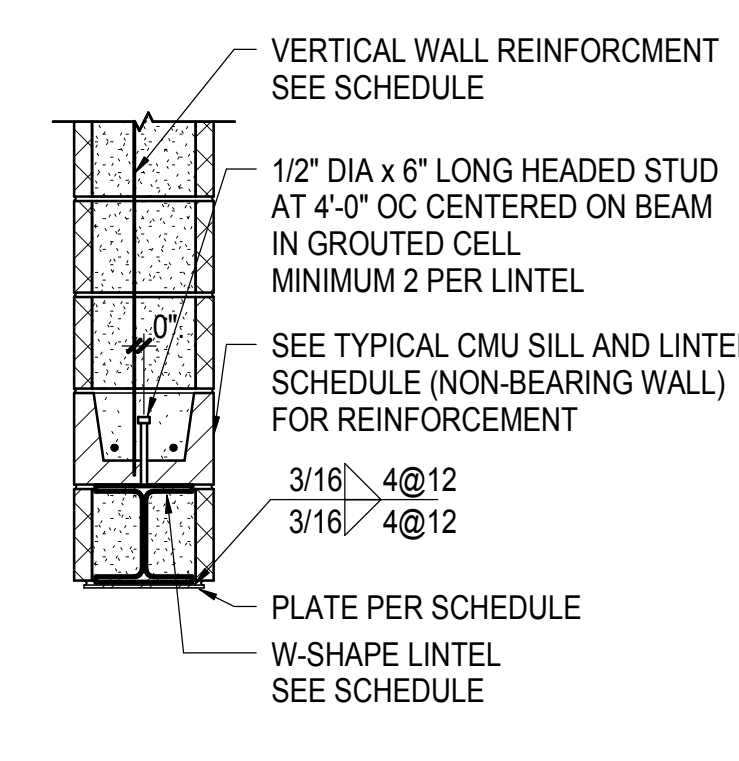
NOT TO SCALE

**4 TYPICAL STEEL LINTEL SCHEDULE (NON-BEARING WALL)**

MAXIMUM MASONRY OPENING L	WALL THICKNESS			
	6" WALL	8" WALL	10" WALL	12" WALL
4'-0"	2L - 2.5 x 2.5 x 1/4	2L - 3.5 x 3 x 1/4 LLV	2L - 4 x 4 x 1/4	2L - 5 x 5 x 5/16
5'-0"	2L - 3 x 2.5 x 1/4 LLV	2L - 3.5 x 3 x 1/4 LLV	2L - 4 x 4 x 1/4	2L - 5 x 5 x 5/16
6'-0"	2L - 3 x 2.5 x 1/4 LLV	2L - 3.5 x 3 x 1/4 LLV	2L - 4 x 4 x 1/4	2L - 5 x 5 x 5/16
7'-0"	2L - 3.5 x 2.5 x 5/16 LLV	2L - 5 x 3 x 1/4 LLV	2L - 4 x 4 x 5/16	2L - 5 x 5 x 5/16
8'-0"	2L - 3.5 x 2.5 x 3/8 LLV	2L - 5 x 3 x 5/16 LLV	2L - 6 x 4 x 3/8 LLV	2L - 5 x 5 x 5/16
10'-0"	W8 x 10	2L - 5 x 3 x 3/8 LLV	2L - 6 x 4 x 3/8 LLV	W8 x 24 + 1/4"x10" PLATE
12'-0"	W8 x 10	2L - 6 x 3.5 x 3/8 LLV	2L - 7 x 4 x 3/8 LLV	W8 x 24 + 1/4"x10" PLATE

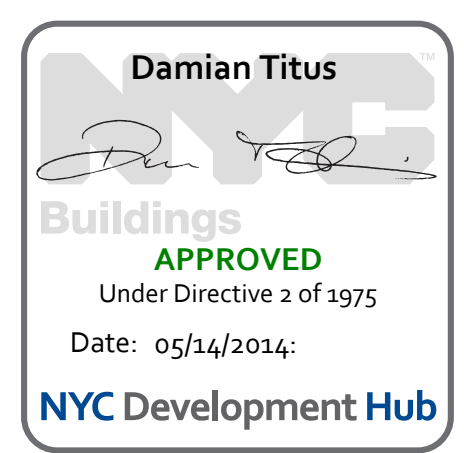
**4 TYPICAL STEEL LINTEL SCHEDULE (NON-BEARING WALL)**

NOT TO SCALE



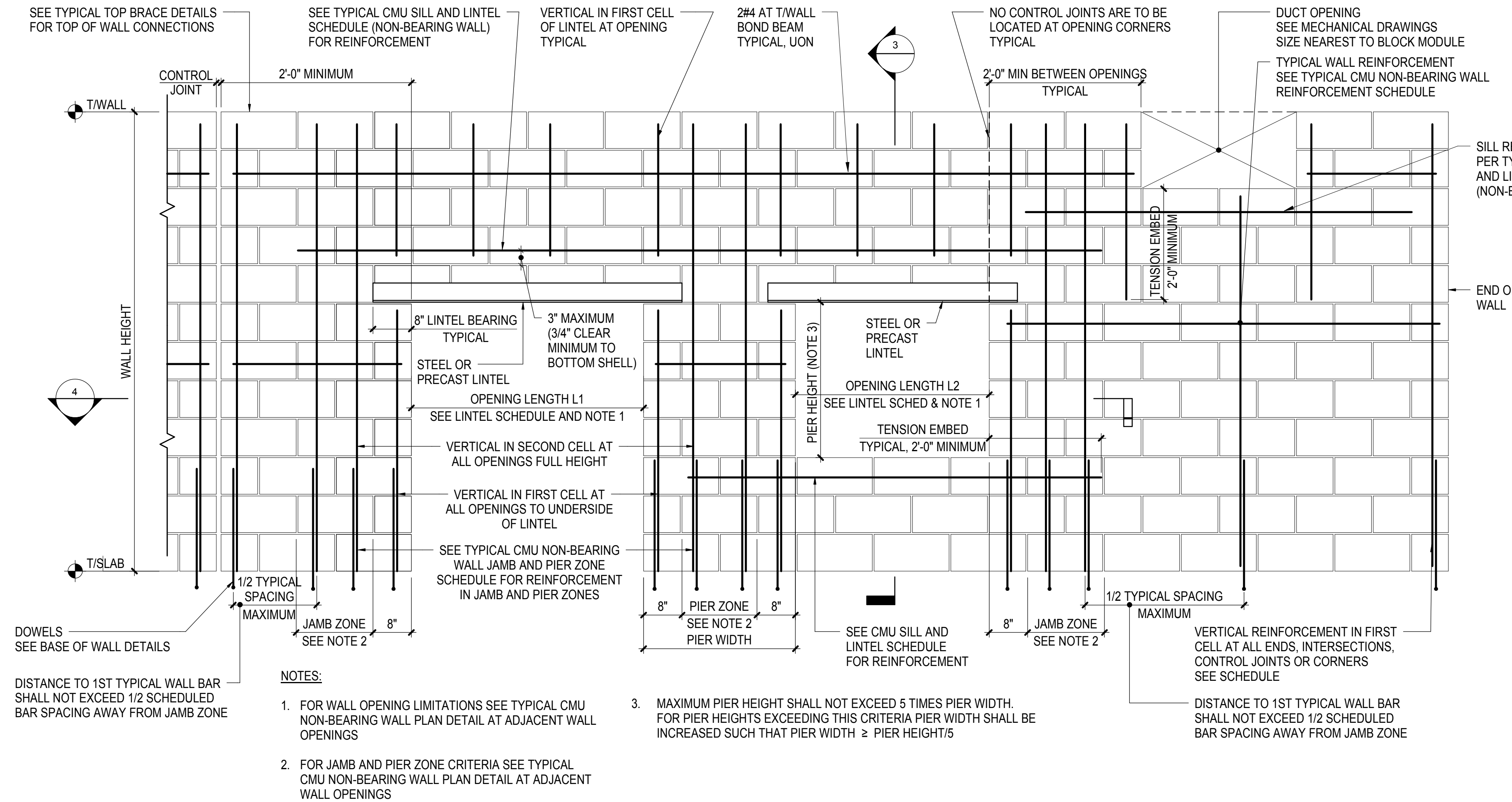
**4 TYPICAL STEEL LINTEL SCHEDULE (NON-BEARING WALL)**

NOT TO SCALE

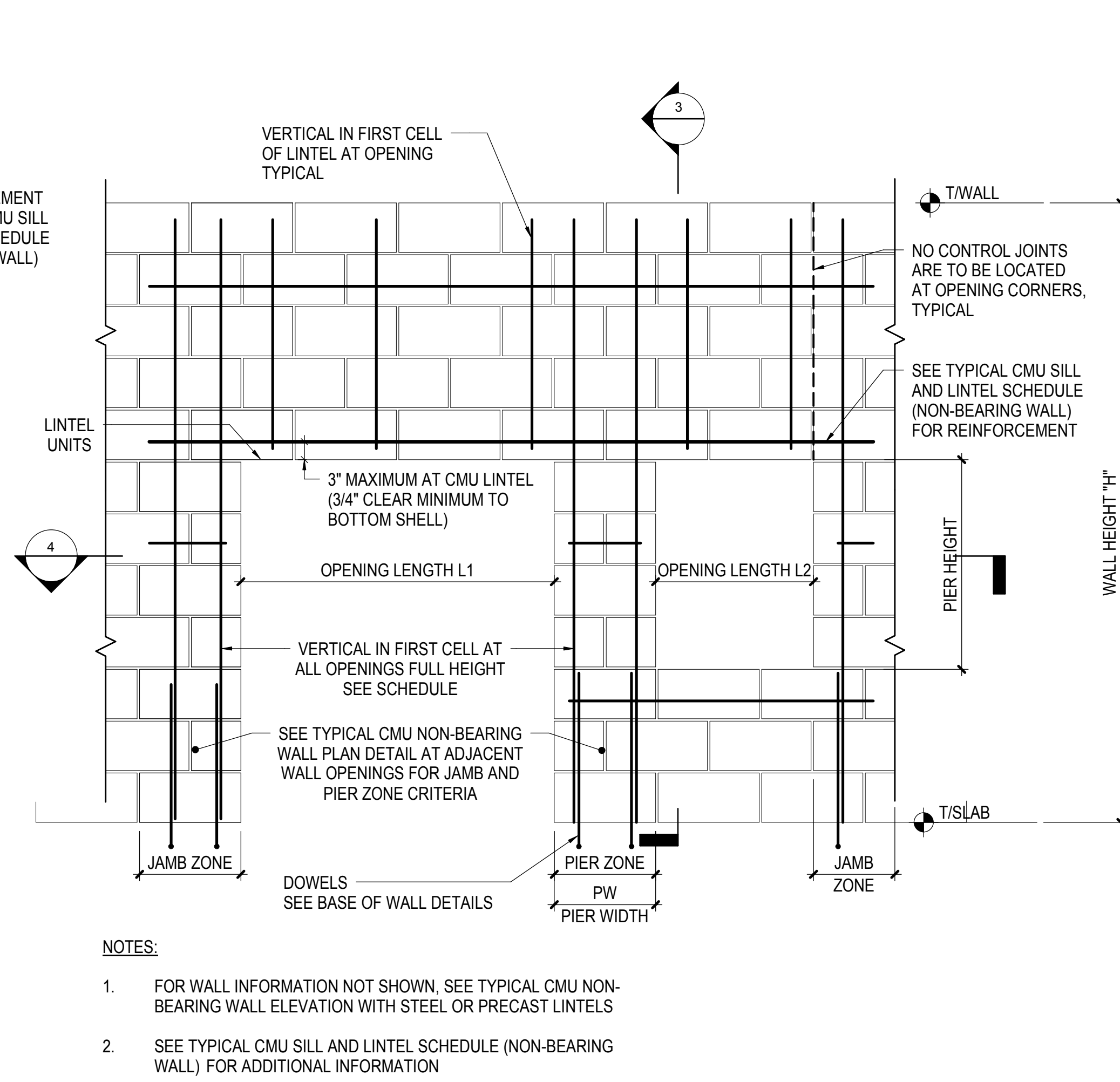




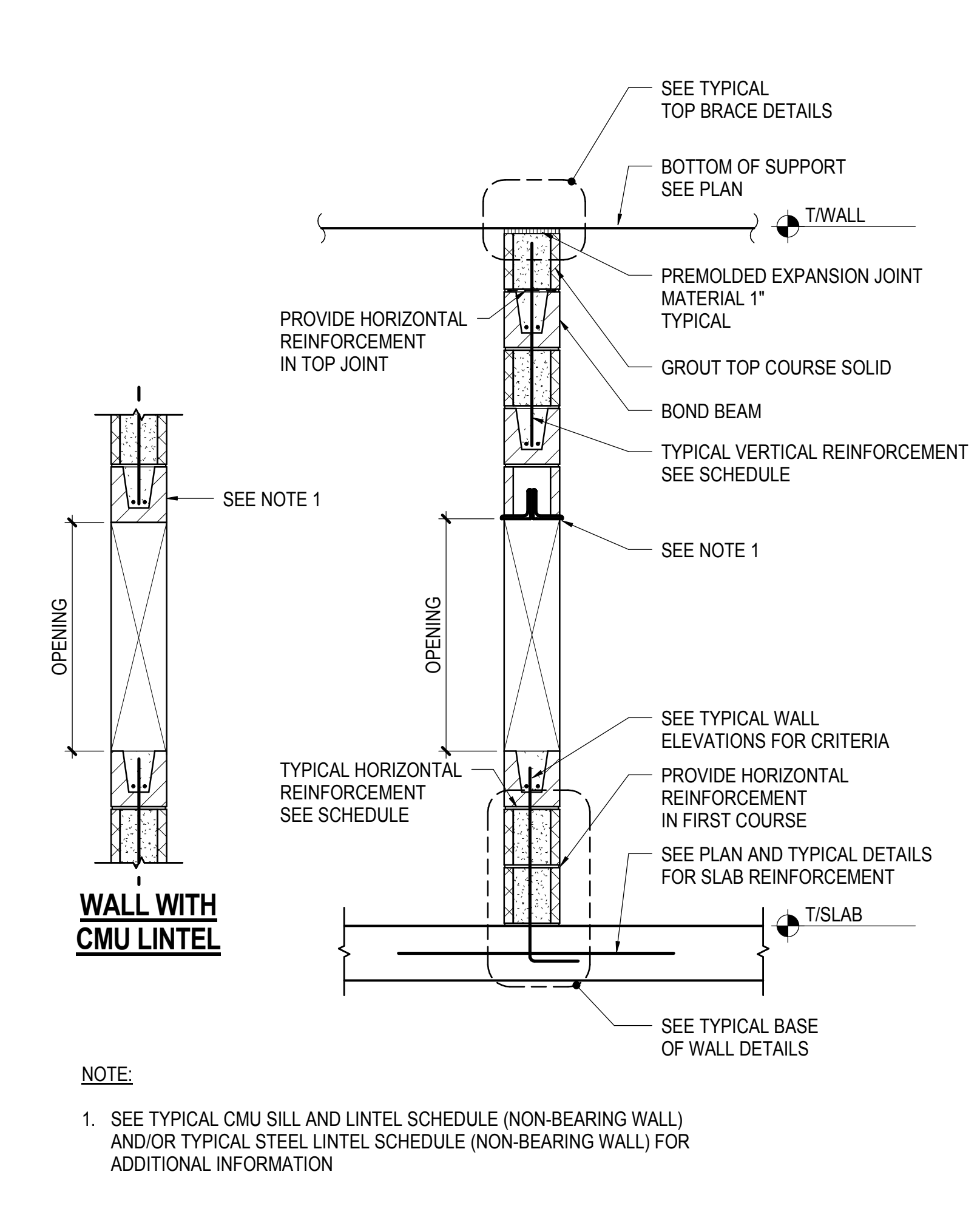
NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
DOB - PLATFORM SUBMISSION	
DOB - PHASE 1 STRUCTURAL UPDATE	11/1/2013
NYC DOB FILING	10/4/2013
DOB - Description	DOB



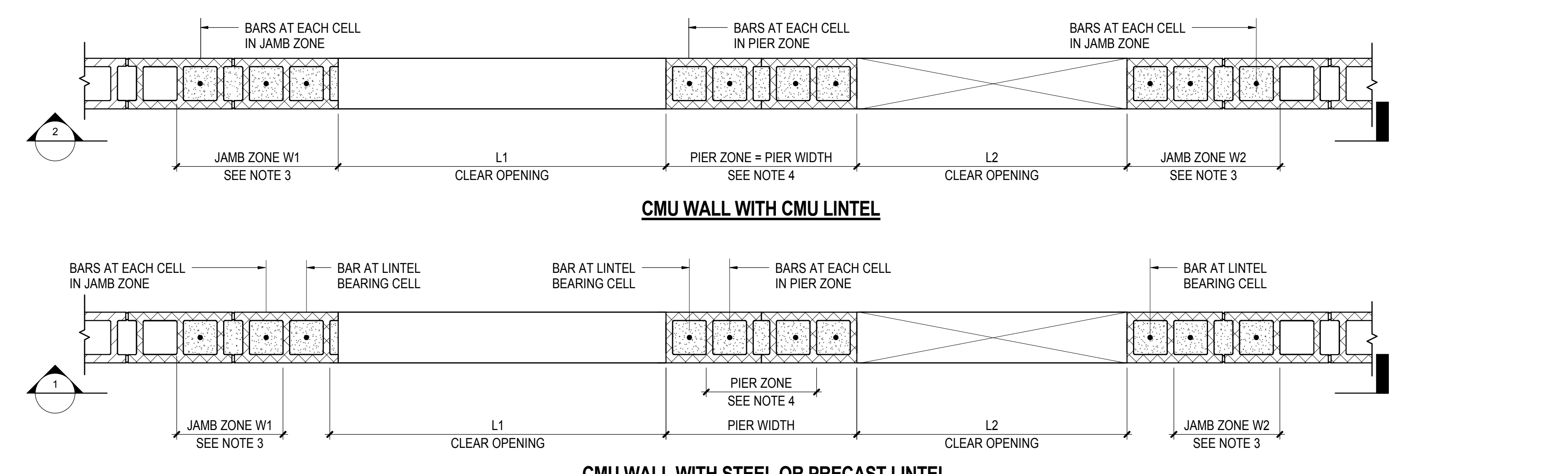
**1 TYPICAL CMU NON-BEARING WALL ELEVATION WITH STEEL OR PRECAST LINTELS**  
NOT TO SCALE



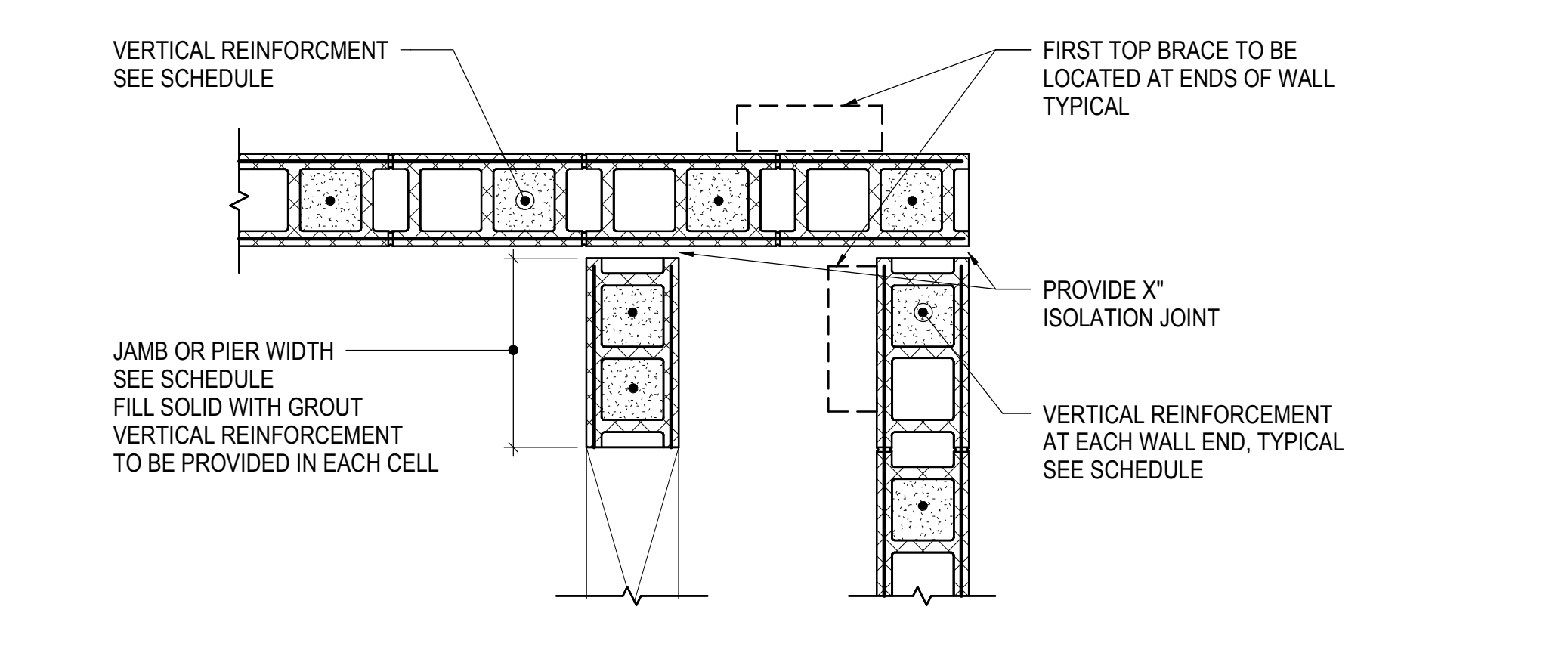
**2 TYPICAL CMU NON-BEARING WALL ELEVATION WITH CMU LINTELS**  
NOT TO SCALE



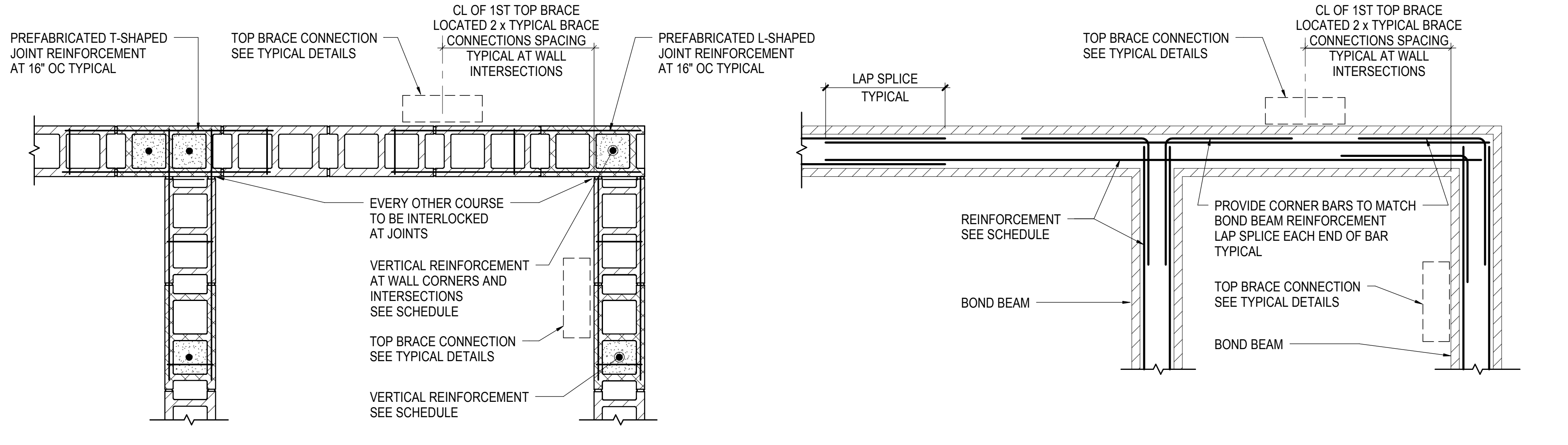
**3 TYPICAL CMU NON-BEARING WALL SECTION**  
NOT TO SCALE



**4 TYPICAL CMU NON-BEARING WALL PLAN DETAIL AT ADJACENT WALL OPENINGS**  
NOT TO SCALE

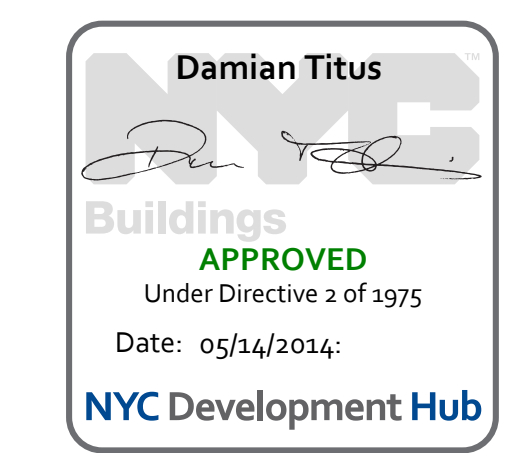


**5 TYPICAL PLAN DETAIL AT FULL HEIGHT MASONRY WALL JOINT INTERSECTION**  
NOT TO SCALE

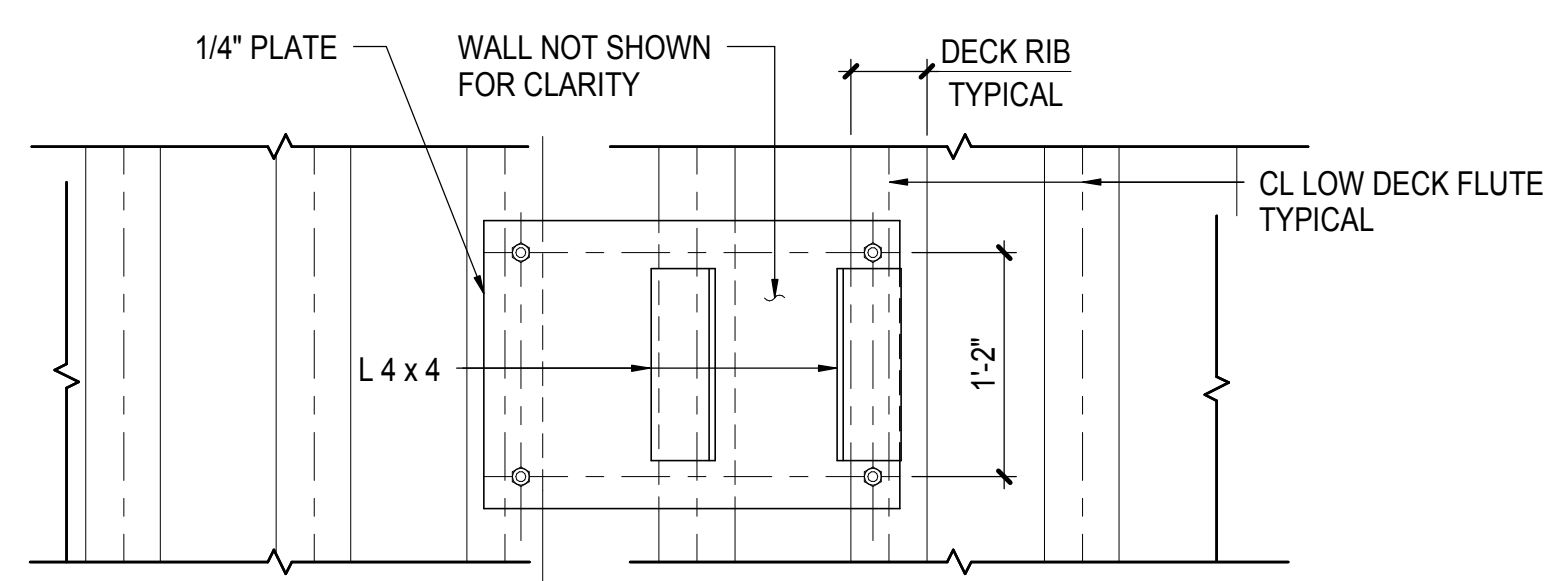


**6 TYPICAL PLAN DETAIL AT MASONRY WALL WITH INTERLOCKED INTERSECTIONS (SEISMIC DESIGN CATEGORY A AND WHERE NOTED ONLY)**  
NOT TO SCALE

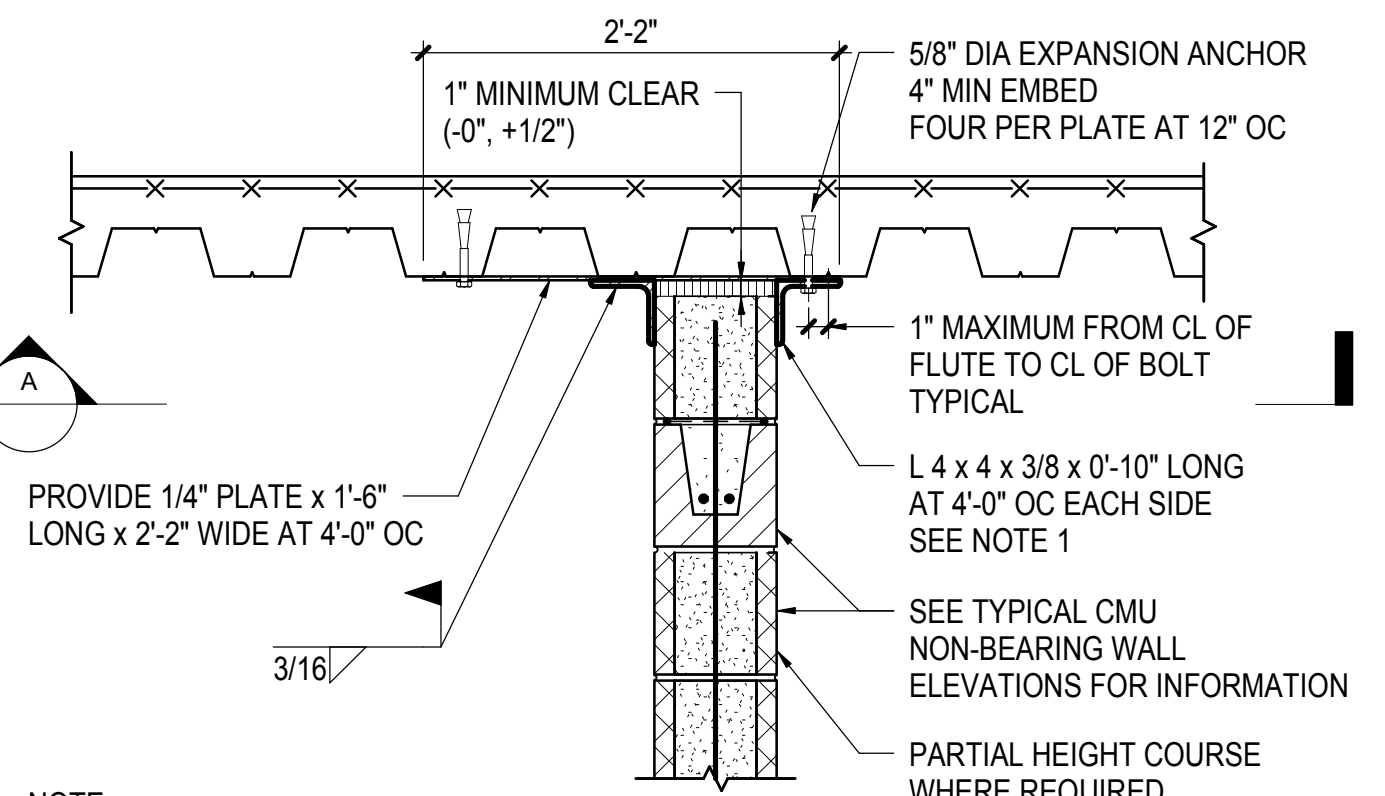
**NOTE:**  
1. PROVIDE JOINT AND BOND BEAM REINFORCEMENT AS REQUIRED, SEE SCHEDULE





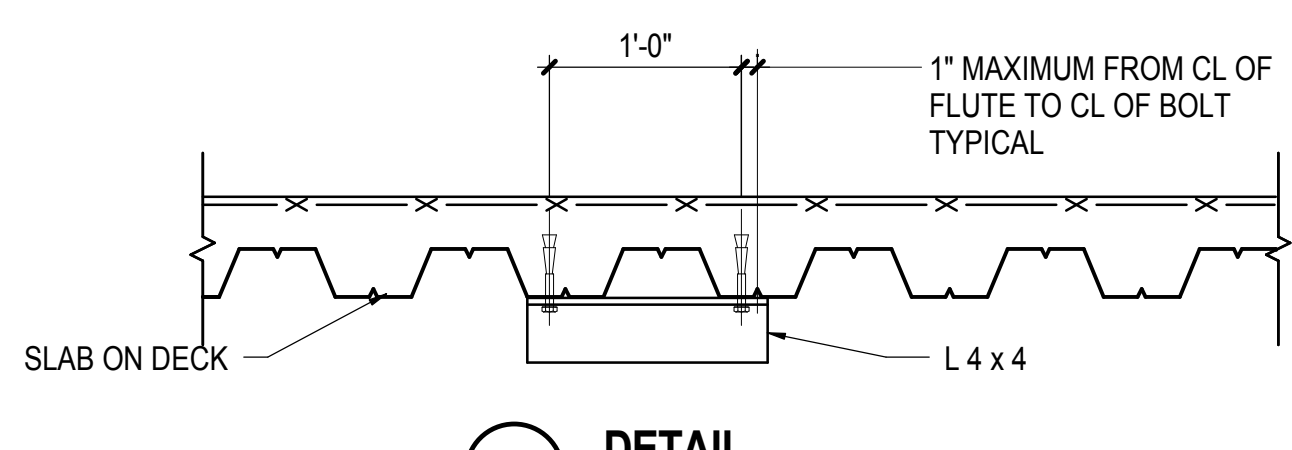


DETAIL

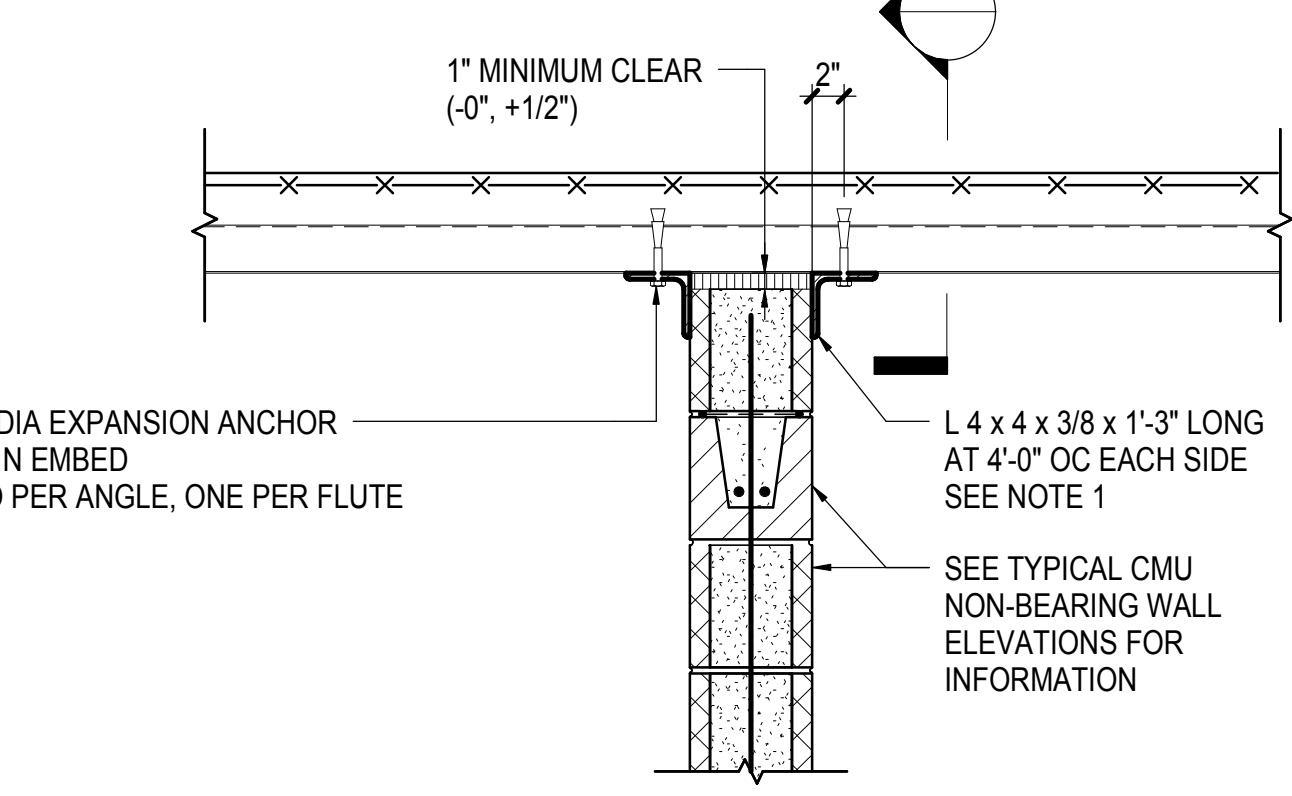


NOTE:  
1. AT CONTINUOUS WALL INTERSECTIONS, SEE TYPICAL PLAN DETAIL AT MASONRY WALL WITH INTERLOCKED INTERSECTIONS FOR BRACE SPACING REQUIREMENTS

1 TYPICAL TOP BRACE DETAIL AT INTERIOR CMU WALL TO UNDERSIDE OF SLAB ON DECK - FLUTES PARALLEL NOT TO SCALE

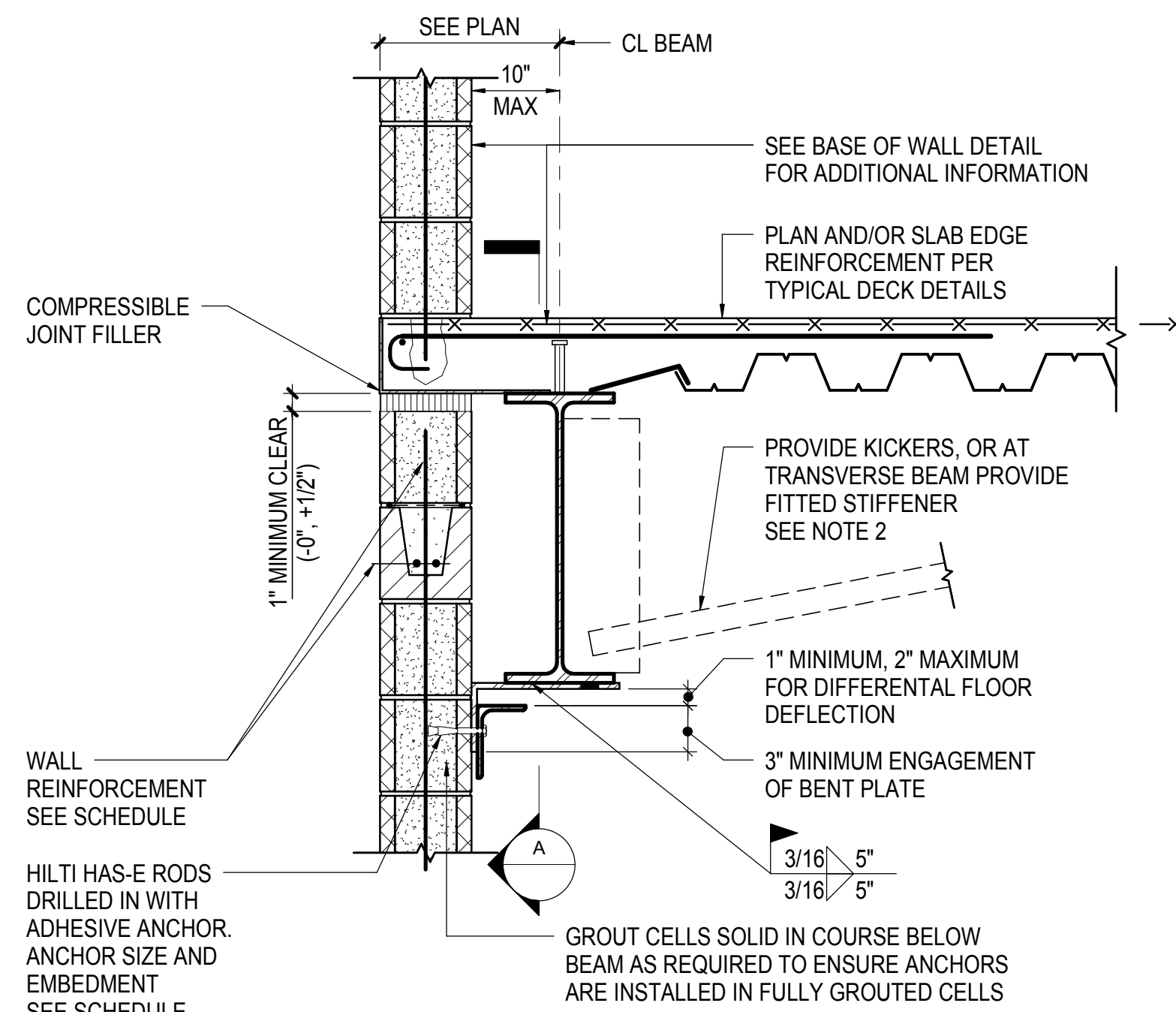


DETAIL



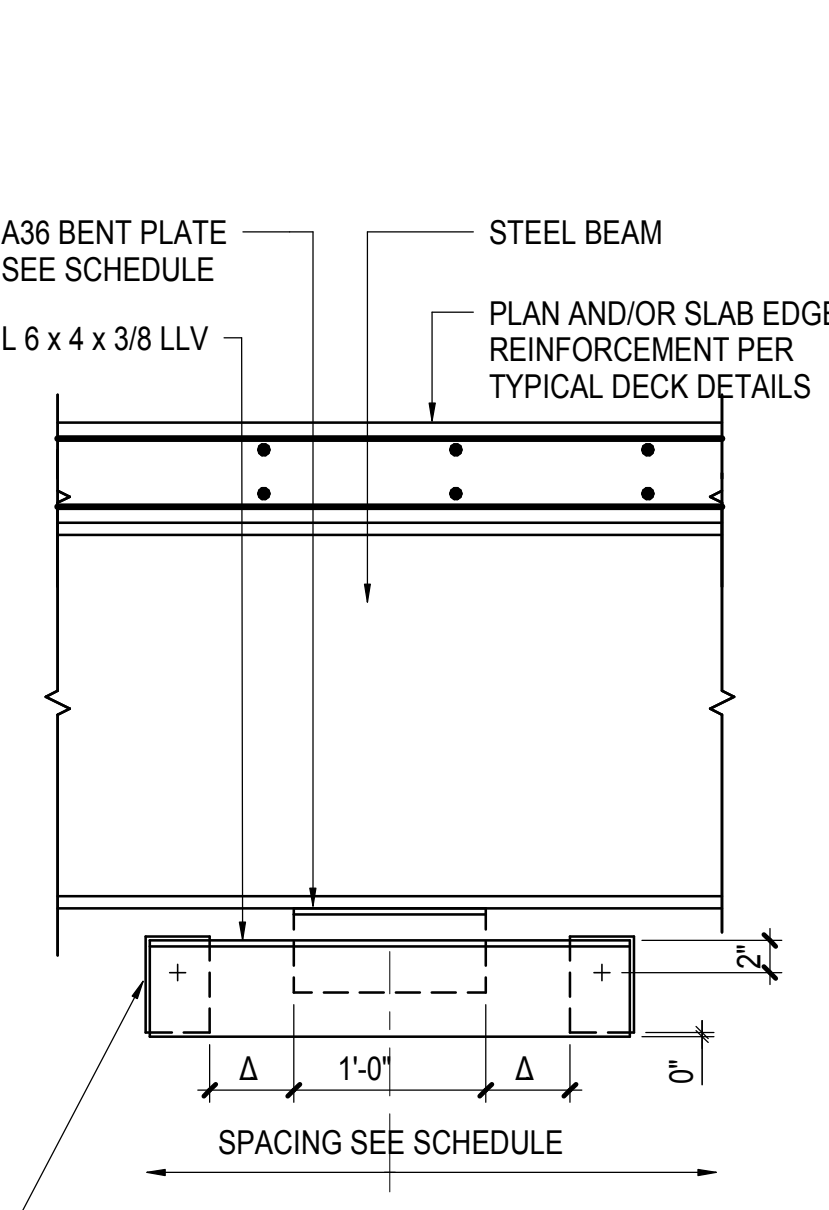
NOTE:  
1. AT CONTINUOUS WALL INTERSECTIONS, SEE TYPICAL PLAN DETAIL AT MASONRY WALL WITH INTERLOCKED INTERSECTIONS FOR BRACE SPACING REQUIREMENTS

2 TYPICAL TOP BRACE DETAIL AT INTERIOR CMU WALL TO UNDERSIDE OF SLAB ON DECK - FLUTES PARALLEL NOT TO SCALE



DETAIL

3 TYPICAL TOP BRACE DETAIL AT INTERIOR CMU WALL TO UNDERSIDE OF SLAB ON DECK - FLUTES PARALLEL NOT TO SCALE



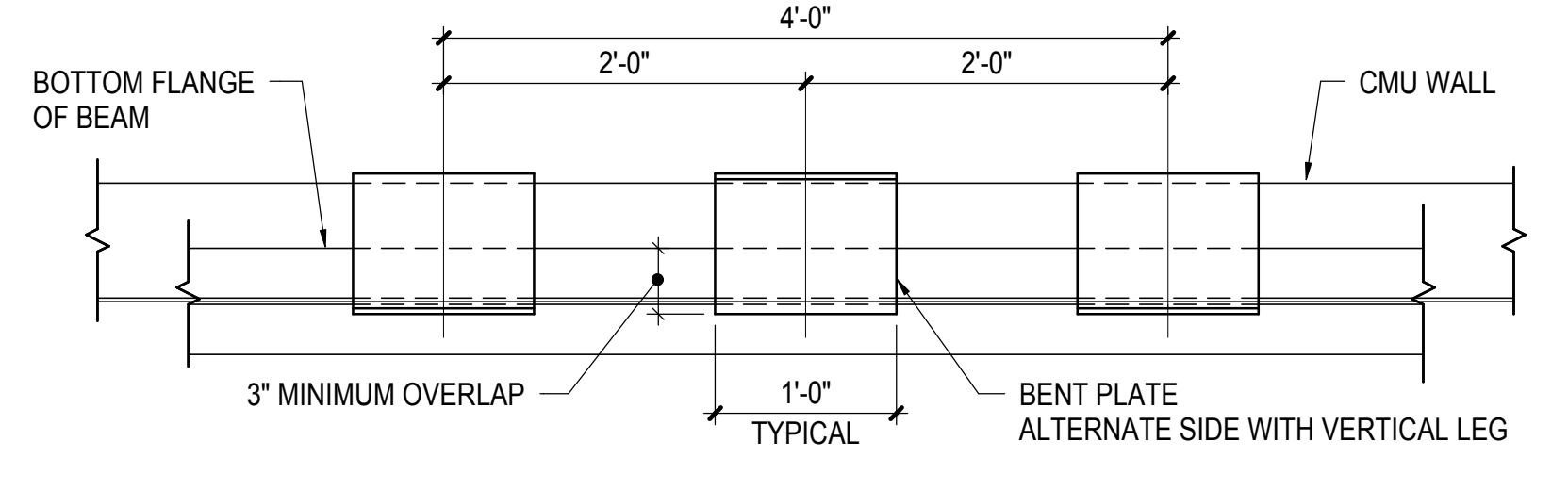
NOTE:  
1. PROVIDE ADDITIONAL SHIMS IN 1/16 INCH MAXIMUM INCREMENTS SO BENT PLATE CAN SLIDE WITHOUT BINDING OR SHOWING SIGNIFICANT TRANSVERSE PLAY  
2. KICKER SHALL BE PER TYPICAL SPANDREL OR BRACED BEAM KICKER CONNECTION DETAIL. FITTED STIFFENER SHALL BE PER TYPICAL FULL HEIGHT FITTED STIFFENER AT SPANDREL OR BRACED BEAM CONNECTION DETAIL.

DETAIL

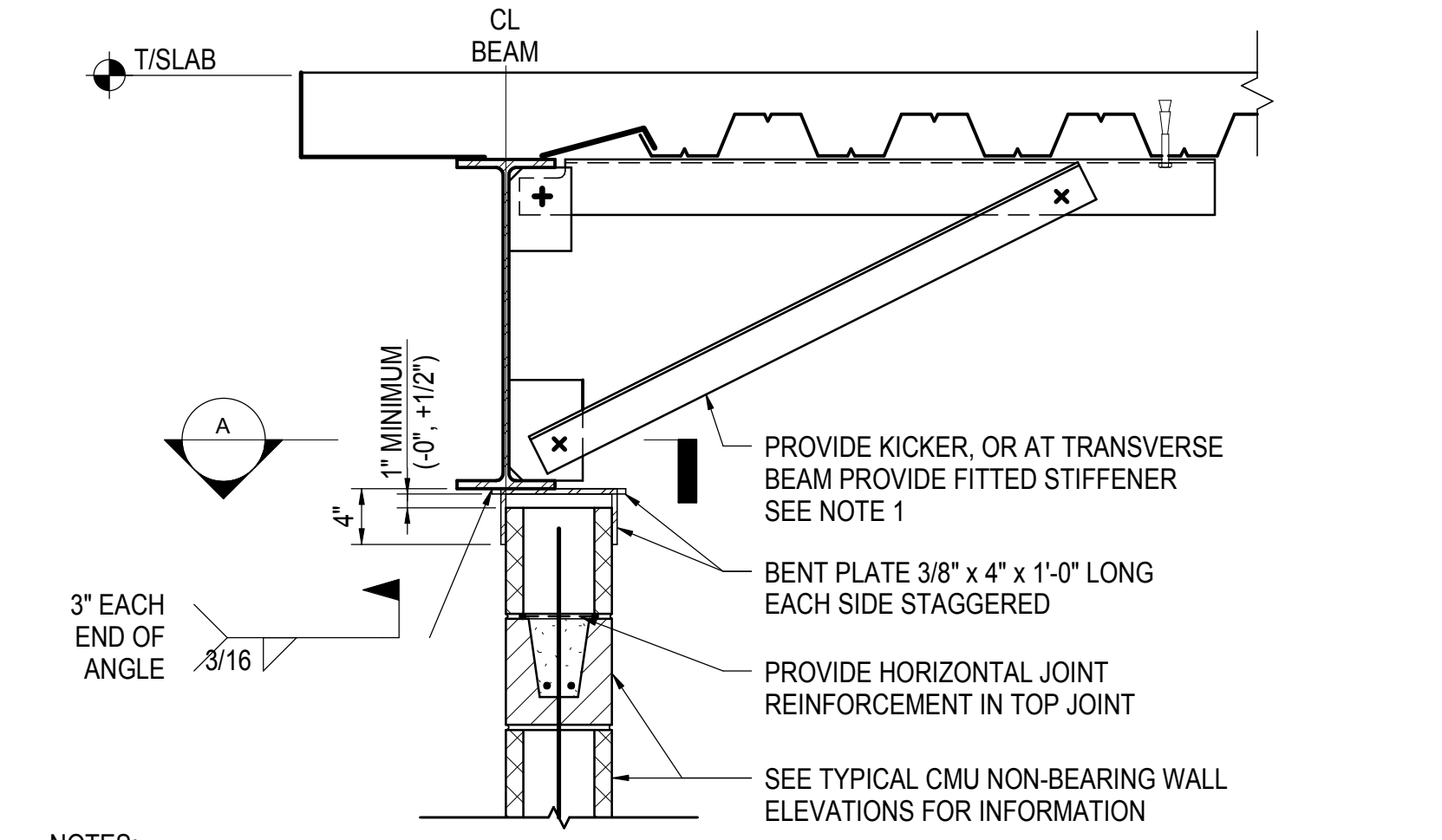
4 TYPICAL TOP BRACE DETAIL AT INTERIOR CMU WALL TO UNDERSIDE OF SLAB ON DECK - FLUTES PARALLEL NOT TO SCALE

SEISMIC DESIGN CATEGORY	WALL TYPE	MAXIMUM WALL HEIGHT	ASSEMBLY SPACING	ANCHOR SIZE	ANCHOR EMBEDMENT	BENT PL THICKNESS
A, B, C	6"	14'-0"	4'-0"	3/8" DIA	3 1/2"	3/8"
A, B, C	8"	19'-0"	4'-0"	5/8" DIA	5"	3/8"
A, B, C	10"	17'-0"	4'-0"	3/4" DIA	6 5/8"	3/8"
A, B, C	10"	23'-6"	4'-0"	3/4" DIA	6 5/8"	1/2"
A, B, C	12"	26'-0"	4'-0"	3/4" DIA	6 5/8"	1/2"
A, B, C	12"	29'-0"	4'-0"	3/4" DIA	6 5/8"	5/8"
D, E, F	6"	14'-0"	4'-0"	3/8" DIA	3 1/2"	3/8"
D, E, F	8"	15'-0"	4'-0"	5/8" DIA	5"	3/8"
D, E, F	8"	19'-0"	4'-0"	5/8" DIA	5"	1/2"
D, E, F	10"	23'-6"	4'-0"	3/4" DIA	6 5/8"	1/2"
D, E, F	12"	18'-0"	4'-0"	3/4" DIA	6 5/8"	1/2"
D, E, F	12"	29'-0"	3'-0"	3/4" DIA	6 5/8"	5/8"

NOTE:  
1. PROVIDE ADDITIONAL SHIMS IN 1/16 INCH MAXIMUM INCREMENTS SO BENT PLATE CAN SLIDE WITHOUT BINDING OR SHOWING SIGNIFICANT TRANSVERSE PLAY  
2. KICKER SHALL BE PER TYPICAL SPANDREL OR BRACED BEAM KICKER CONNECTION DETAIL. FITTED STIFFENER SHALL BE PER TYPICAL FULL HEIGHT FITTED STIFFENER AT SPANDREL OR BRACED BEAM CONNECTION DETAIL.

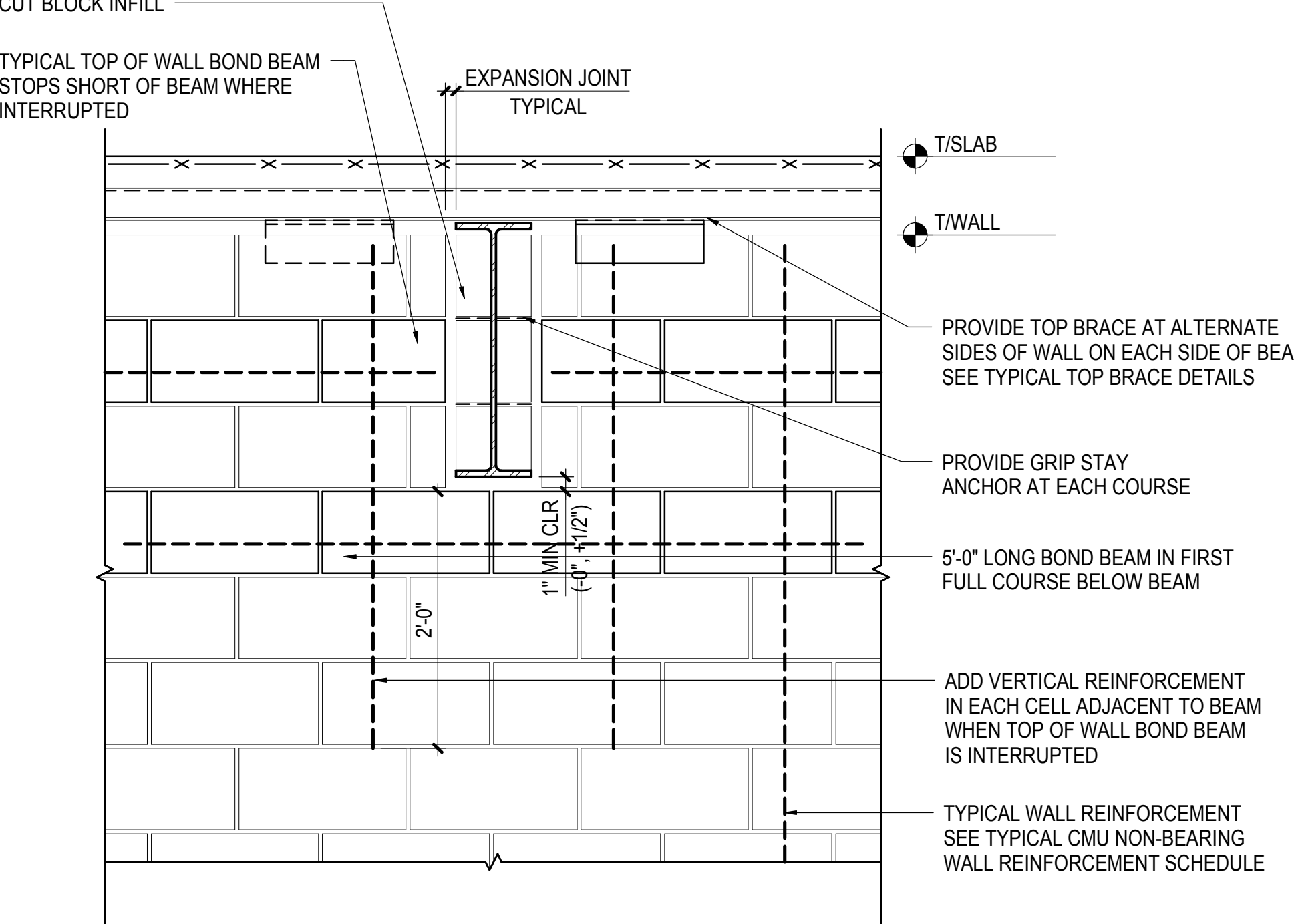


DETAIL

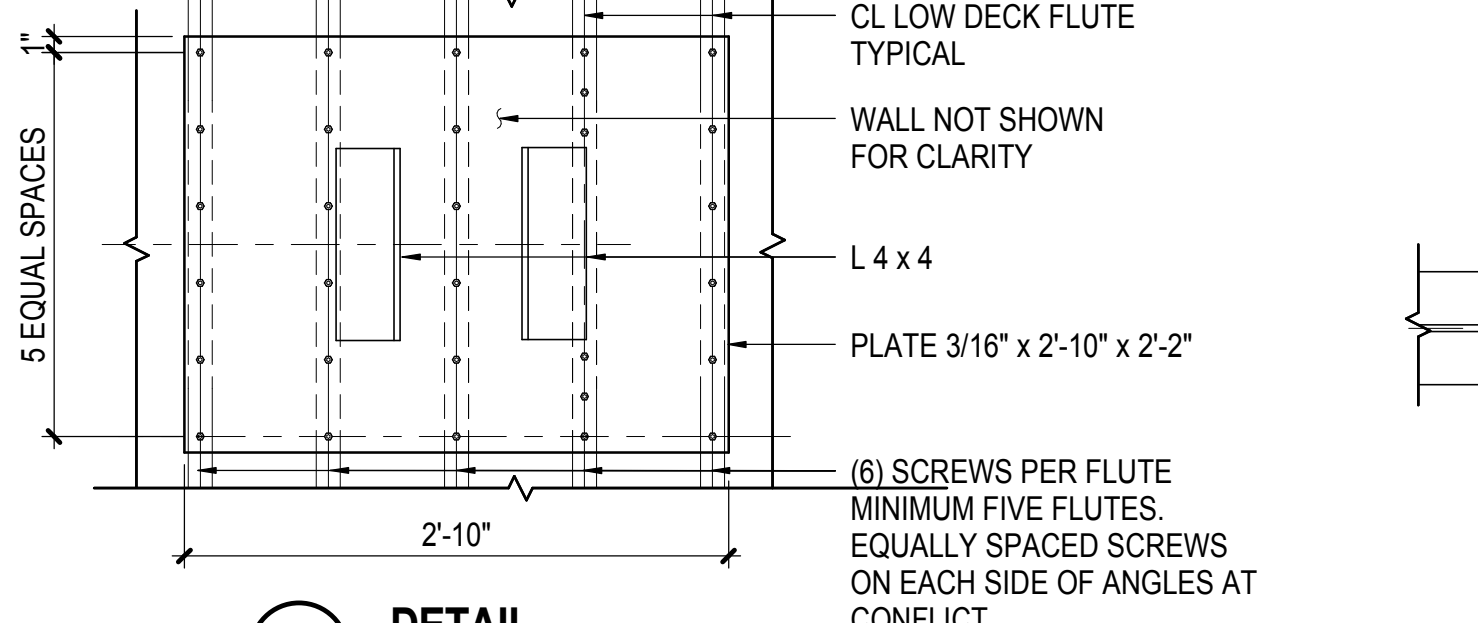


NOTE:  
1. FOR INTERIOR WALLS WITH HEIGHT <= 23'-6", KICKER SHALL BE PER TYPICAL KICKER DETAIL (P < 2,000 LBS)  
2. INTERIOR WALLS WITH HEIGHT > 23'-6", PROVIDE KICKER PER TYPICAL KICKER DETAIL (2,000 LBS <= P < 5,000 LBS)  
3. FITTED STIFFENER AT PERPENDICULAR BEAMS SHALL BE PER TYPICAL FULL HEIGHT FITTED STIFFENER AT SPANDREL OR BRACED BEAM CONNECTION DETAIL

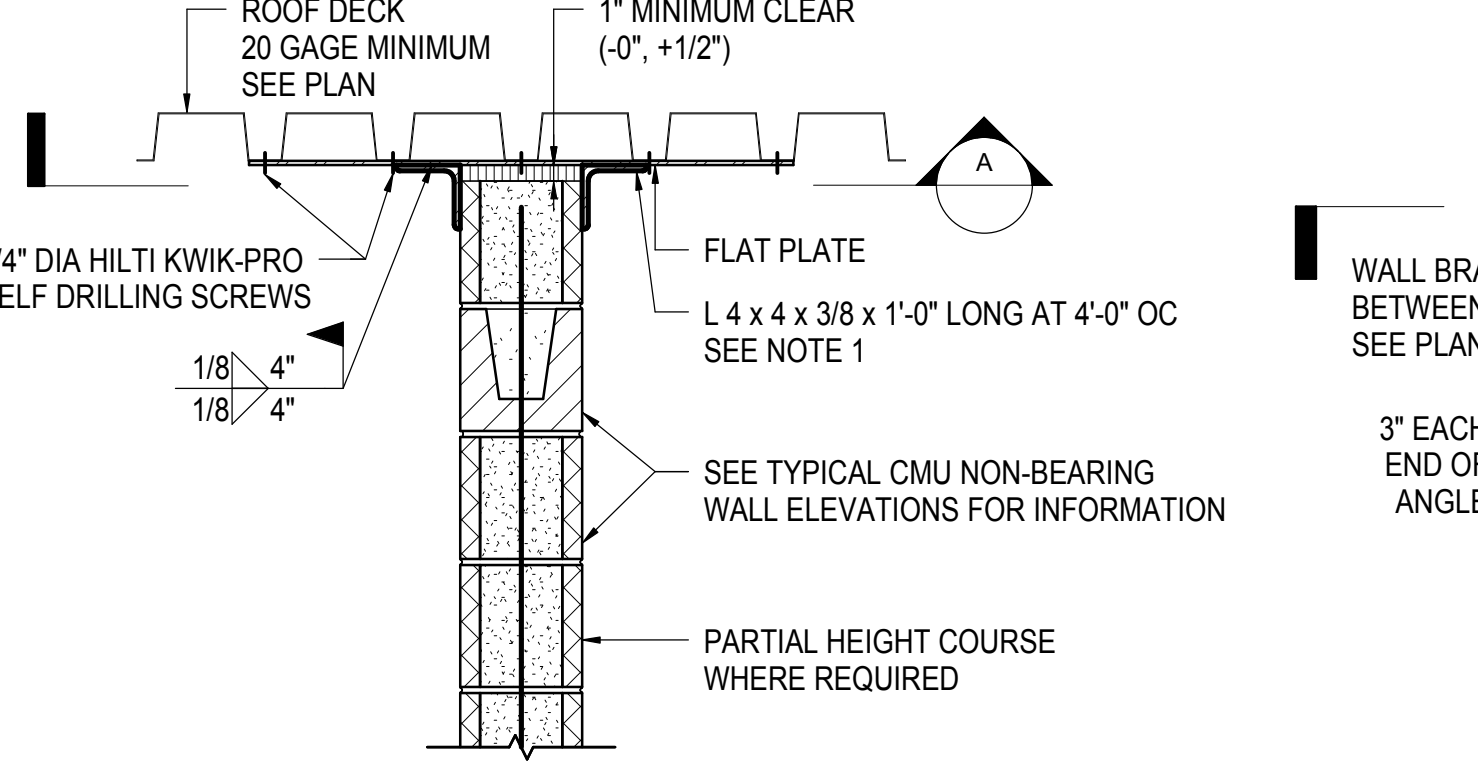
4 TYPICAL TOP BRACE DETAIL UNDER STEEL BEAM NOT TO SCALE



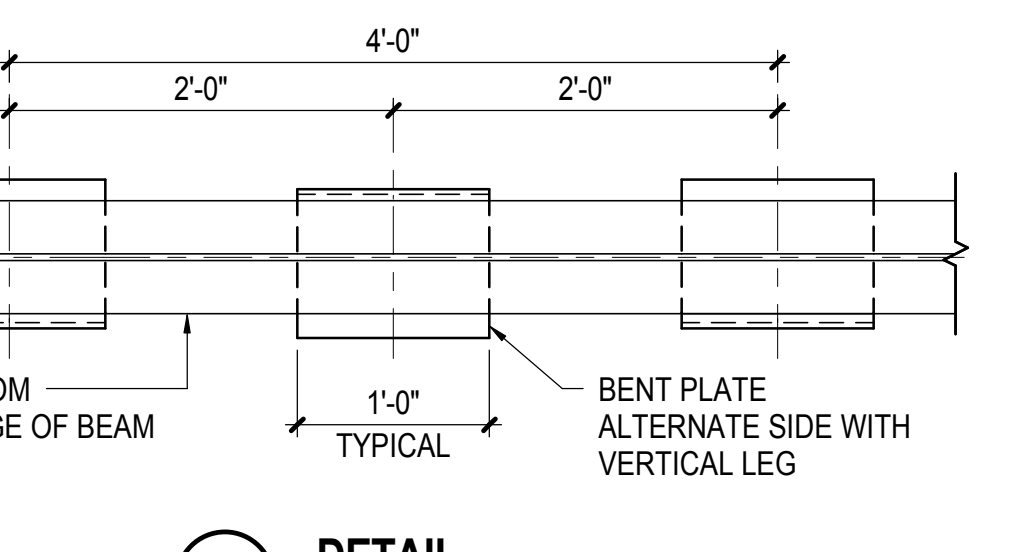
5 TYPICAL DETAIL OF CMU NON-BEARING WALL AT PERPENDICULAR STEEL BEAM NOT TO SCALE



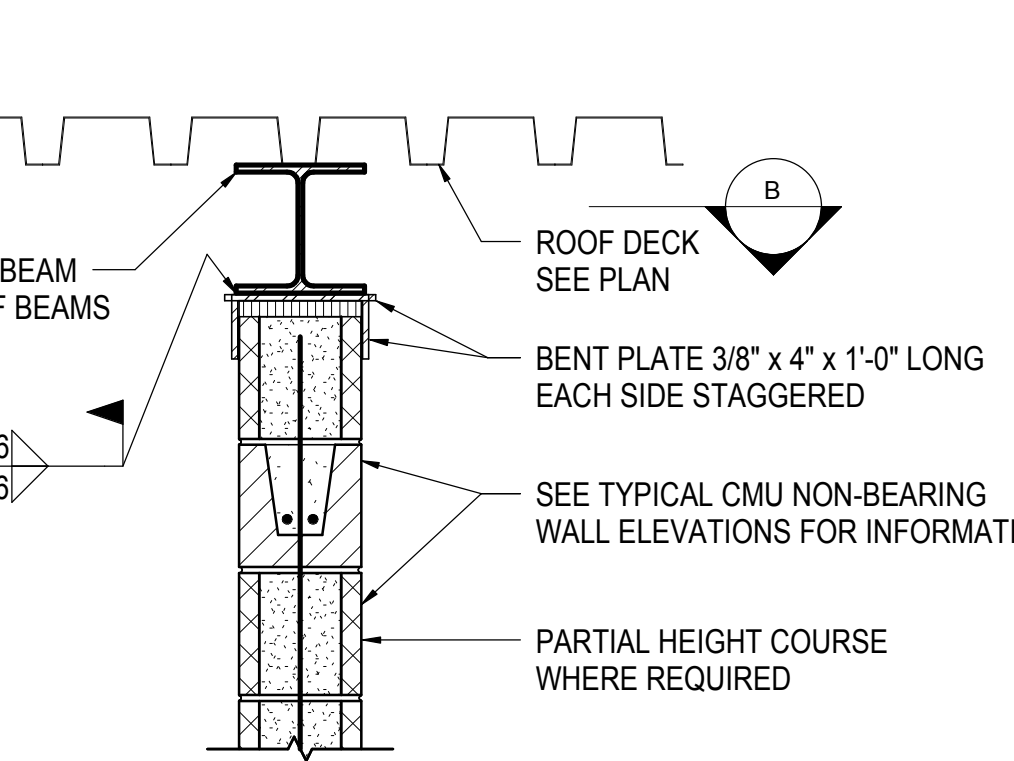
DETAIL



CMU TO ROOF DECK CONNECTION - TYPE 1



DETAIL



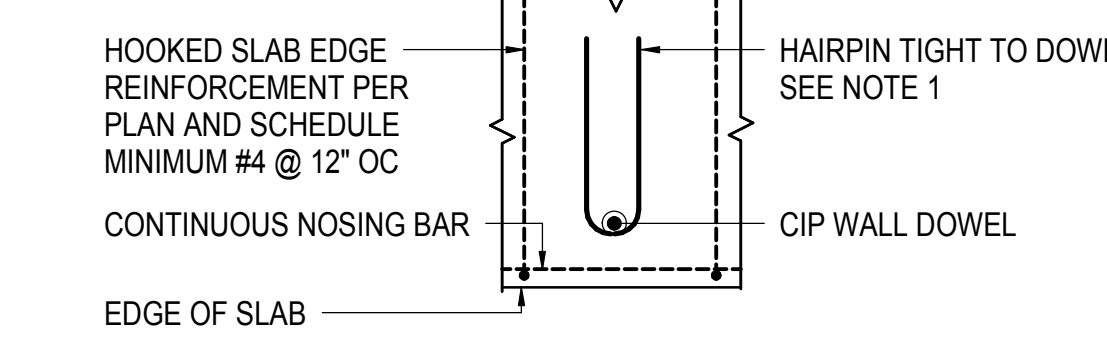
CMU TO ROOF DECK CONNECTION - TYPE 2

SEISMIC DESIGN CATEGORY	IMPORTANCE FACTOR I <sub>p</sub>	WALL HEIGHT (FT)	CONNECTION TYPE
A	1.0/1.5	ALL	1
B, C	1.0	ALL	1
B, C	1.5	<= 14.5	1
B, C	1.5	> 14.5	2
D, E, F	1.0/1.5	<= 14.5	1
D, E, F	1.0/1.5	> 14.5	2

NOTE:  
1. AT CONTINUOUS WALL INTERSECTIONS, SEE TYPICAL PLAN DETAIL AT MASONRY WALL WITH INTERLOCKED INTERSECTIONS FOR BRACE SPACING REQUIREMENTS

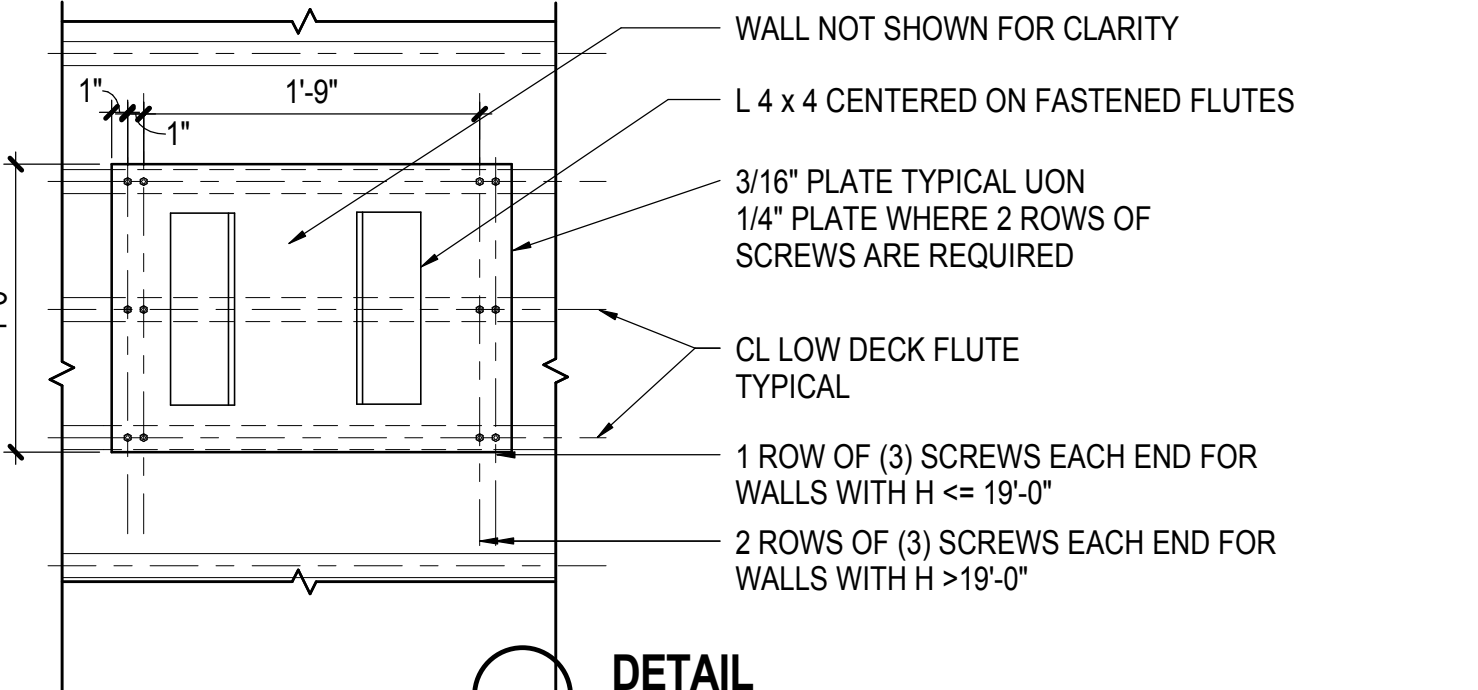
6 TYPICAL TOP BRACE DETAIL AT INTERIOR CMU WALL TO UNDERSIDE OF ROOF DECK - FLUTES PARALLEL NOT TO SCALE

SEISMIC DESIGN CATEGORY	IMPORTANCE FACTOR I <sub>p</sub>	DOWEL TYPE	MAX #4 DOWEL SPACING (SEE NOTE 1)	HAIRPIN PER DETAIL D
A, B	1.0	CIP OR DRILLED IN	48"	NO
A, B	1.5	CIP OR DRILLED IN	48" TYP UON 24" FOR WALLS H>20'-0"	NO
C	1.0	CIP	48"	YES
C	1.5	CIP	48" TYP UON 24" FOR WALLS H>20'-0"	YES
D, E, F	1.0/1.5	CIP	48" FOR 6" & 8" WALLS 24" FOR 10" & 12" WALLS	YES

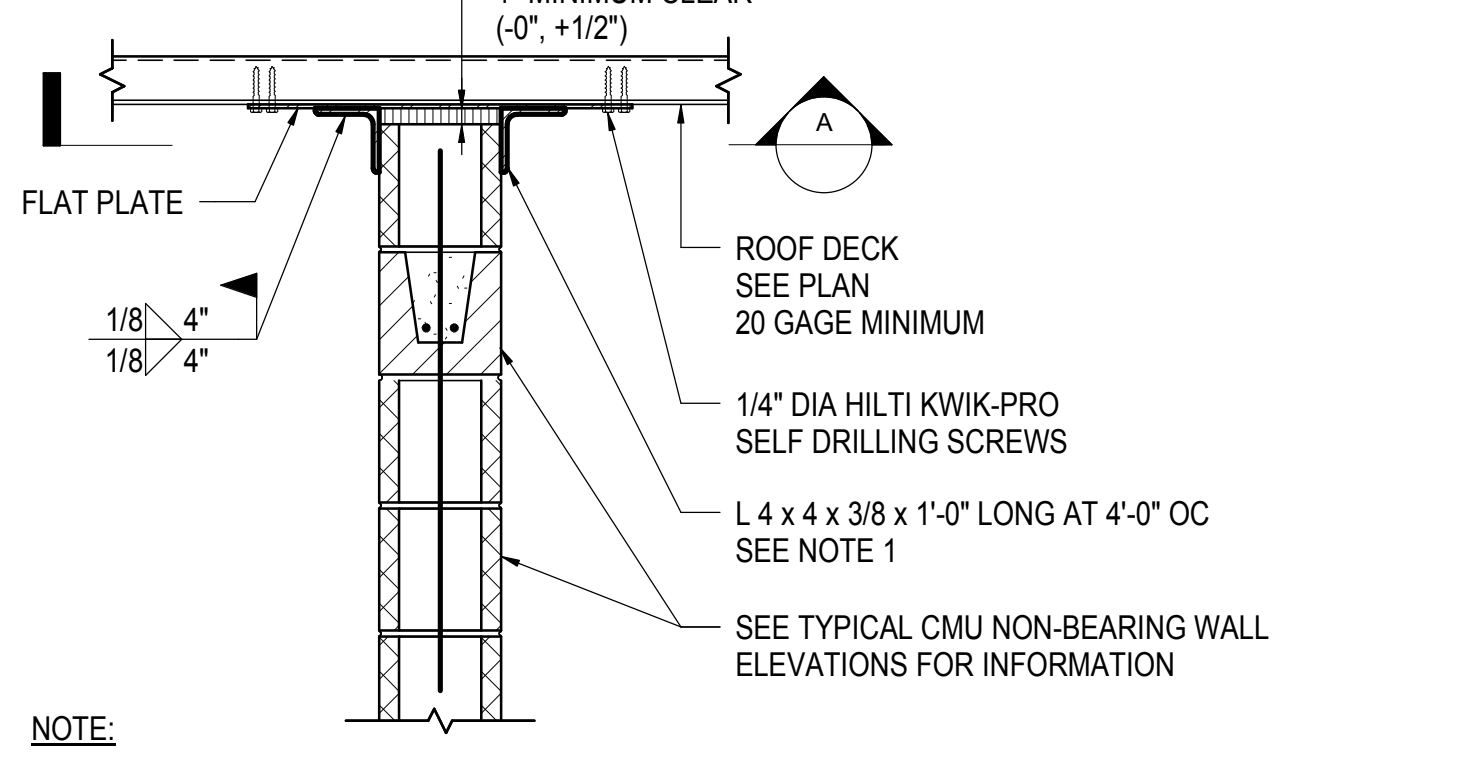


NOTE:  
1. PROVIDE #3 x 1'-8" LONG HAIRPIN FOR SEISMIC DESIGN CATEGORY C, AND #4 x 2'-0" LONG HAIRPIN FOR SEISMIC DESIGN CATEGORY D, E & F

7 TYPICAL ANCHOR REINFORCEMENT - PLAN

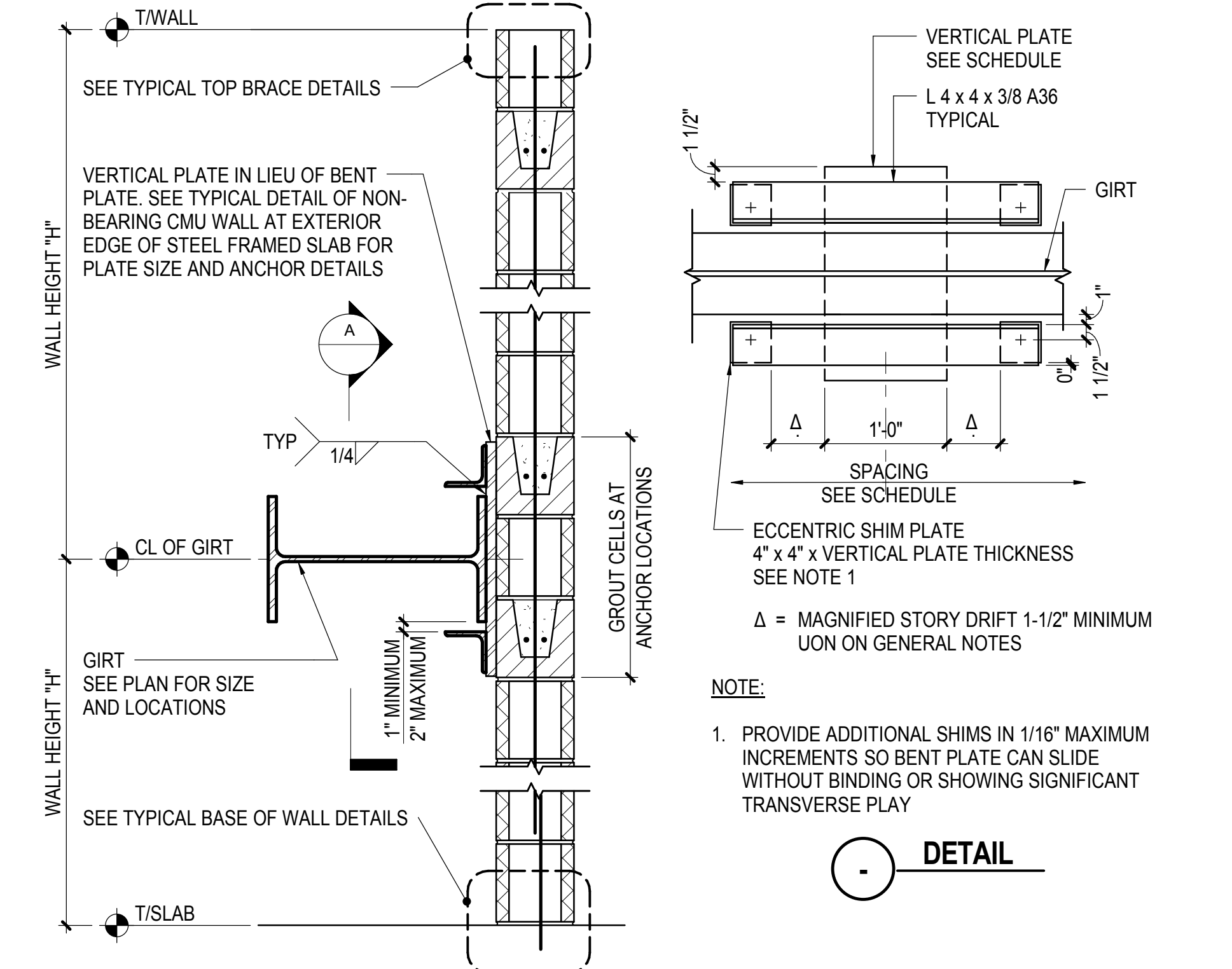


DETAIL

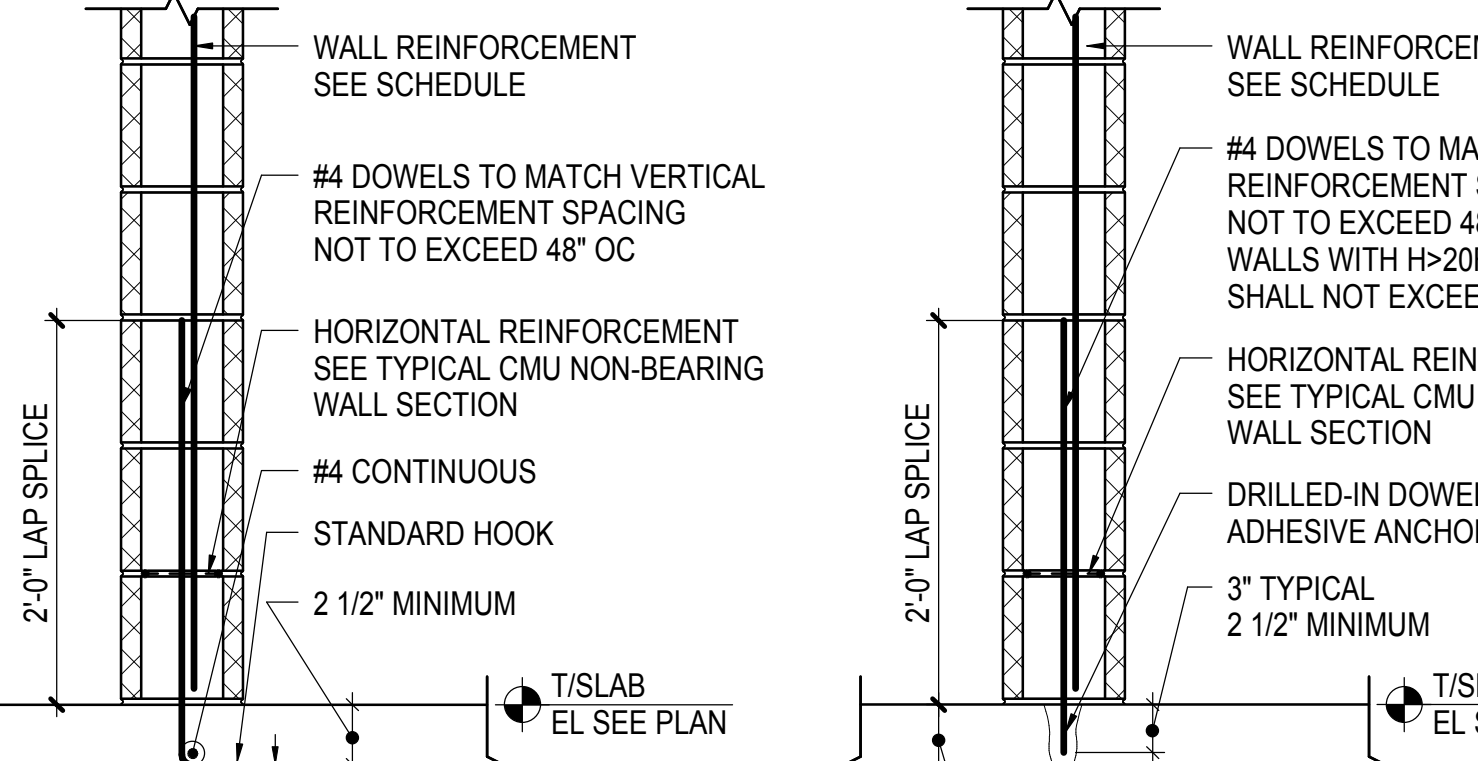


NOTE:  
1. AT CONTINUOUS WALL INTERSECTIONS, SEE TYPICAL PLAN DETAIL AT MASONRY WALL WITH INTERLOCKED INTERSECTIONS FOR BRACE SPACING REQUIREMENTS

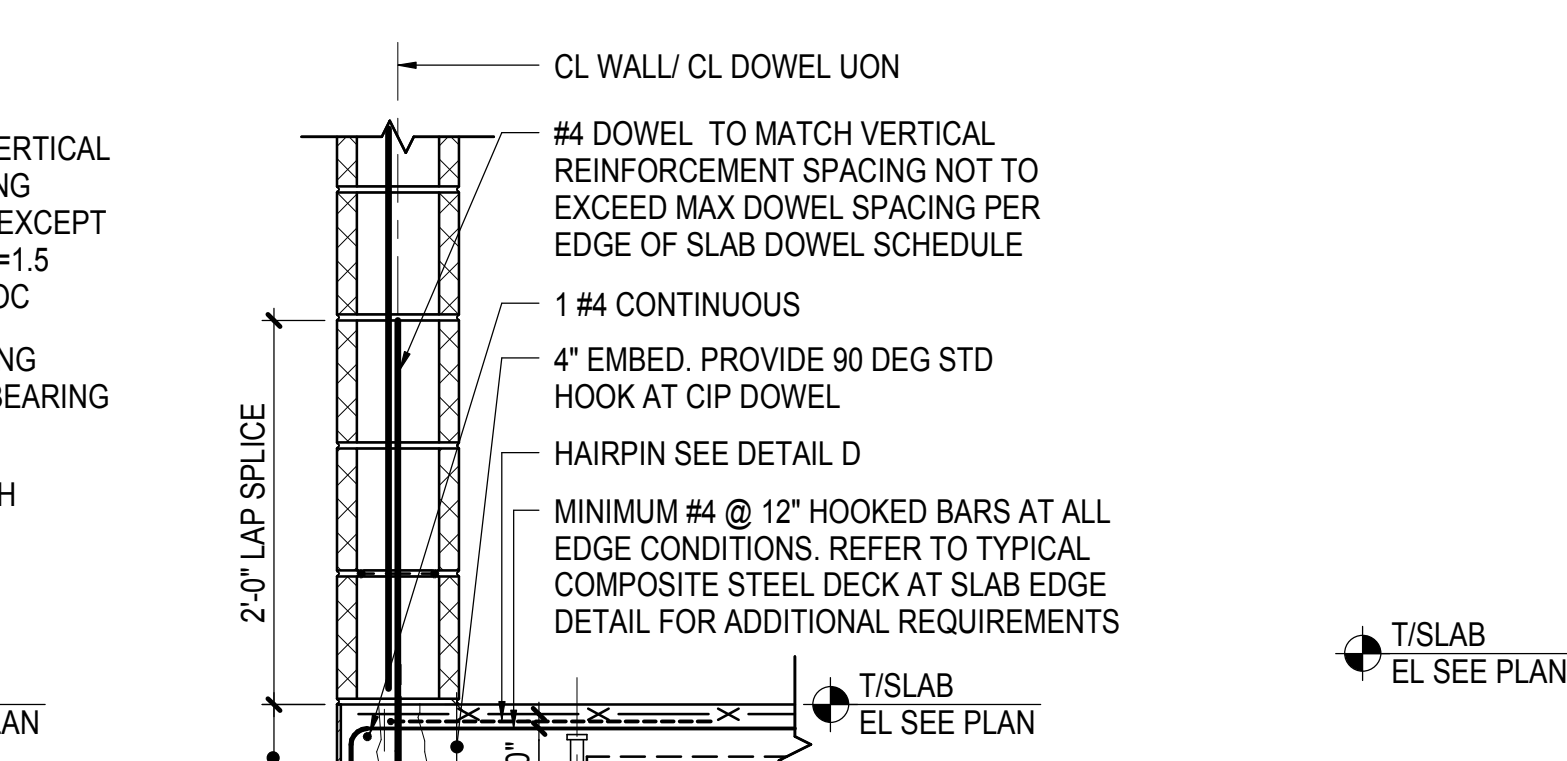
8 TYPICAL TOP BRACE DETAIL AT INTERIOR CMU WALL TO UNDERSIDE OF ROOF DECK - FLUTES PERPENDICULAR NOT TO SCALE



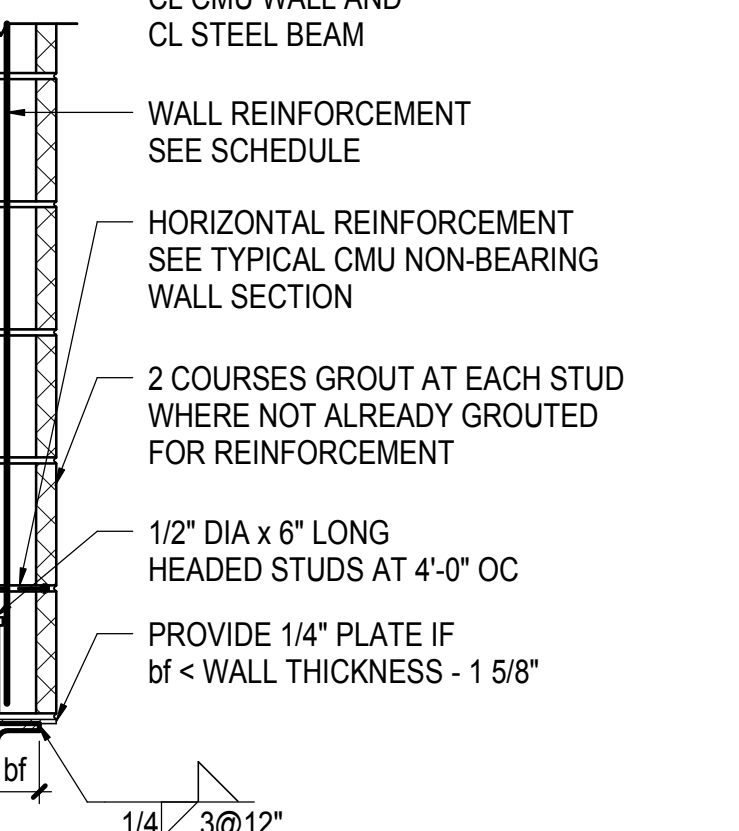
8 TYPICAL CMU NON-BEARING WALL SECTION AT INTERMEDIATE GIRTS NOT TO SCALE



9 CAST-IN DOWELS - OPTION 1 (INTERIOR WALL)



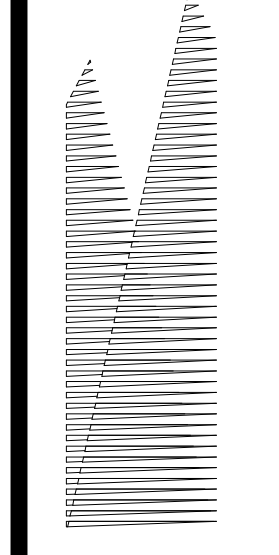
10 DRILLED-IN DOWELS - OPTION 2 (INTERIOR WALL)



11 TYPICAL DETAIL AT EDGE OF SLAB

9 TYPICAL BASE OF CMU WALL DETAIL AT SLAB ON DECK NOT TO SCALE

10 TYPICAL DETAIL OF CMU WALL BEARING ON STEEL BEAM NOT TO SCALE



Client Related Companies 60 Columbus Circle New York, NY 10023 Tel: 212.801.1000 Fax: 212.801.1048

Contract Manager Fishman Construction Corporation 100 Park Avenue, 5th Floor New York, NY 10017 Tel: 212.708.3600

Structural Engineer Thornton Tomasetti, Inc. 51 Madison Avenue New York, NY 10010 Tel: 917.661.7800 Fax: 718.661.7801

Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security Parsons Transportation Group 100 Broadway New York, NY 10005 Tel: 212.266.8300 Fax: 212.571.6825

JLRR Ventilation Ove Arup & Partners P.C. 77 Water Street New York, NY 10005 Tel: 212.896.3000

JLRR Substation AECOM 605 Third Avenue New York, NY 10158 Tel: 212.973.9200 Fax: 212.682.6172

NYC DOB FILING	12/4/2013
L I.R.R. - PRE-FINAL 100%	11/22/2013
Sub. PLATFORM SUBMISSION	
DEL. PHASE 1 STRUCTURAL UPDATE	1/11/2013
NYC DOB FILING	10/4/2013
Rev. Description	08/

Rev. Plan

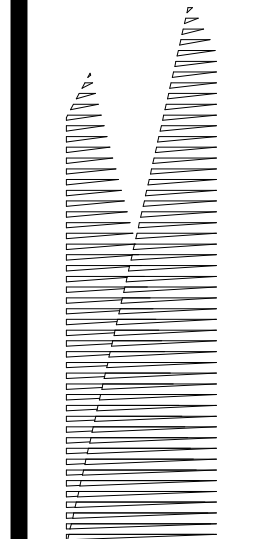
Date: 10/03/2013  
Project No: N11330.00  
Title: Author

HYE - PL - S-742.00

TYPICAL MASONRY NON-BEARING WALL TO STEEL DETAILS

S-742.00 SHEET 186 OF 201





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Construction Manager  
Fishman Construction Corporation  
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Architect  
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Structural Engineer  
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51 Madison Avenue  
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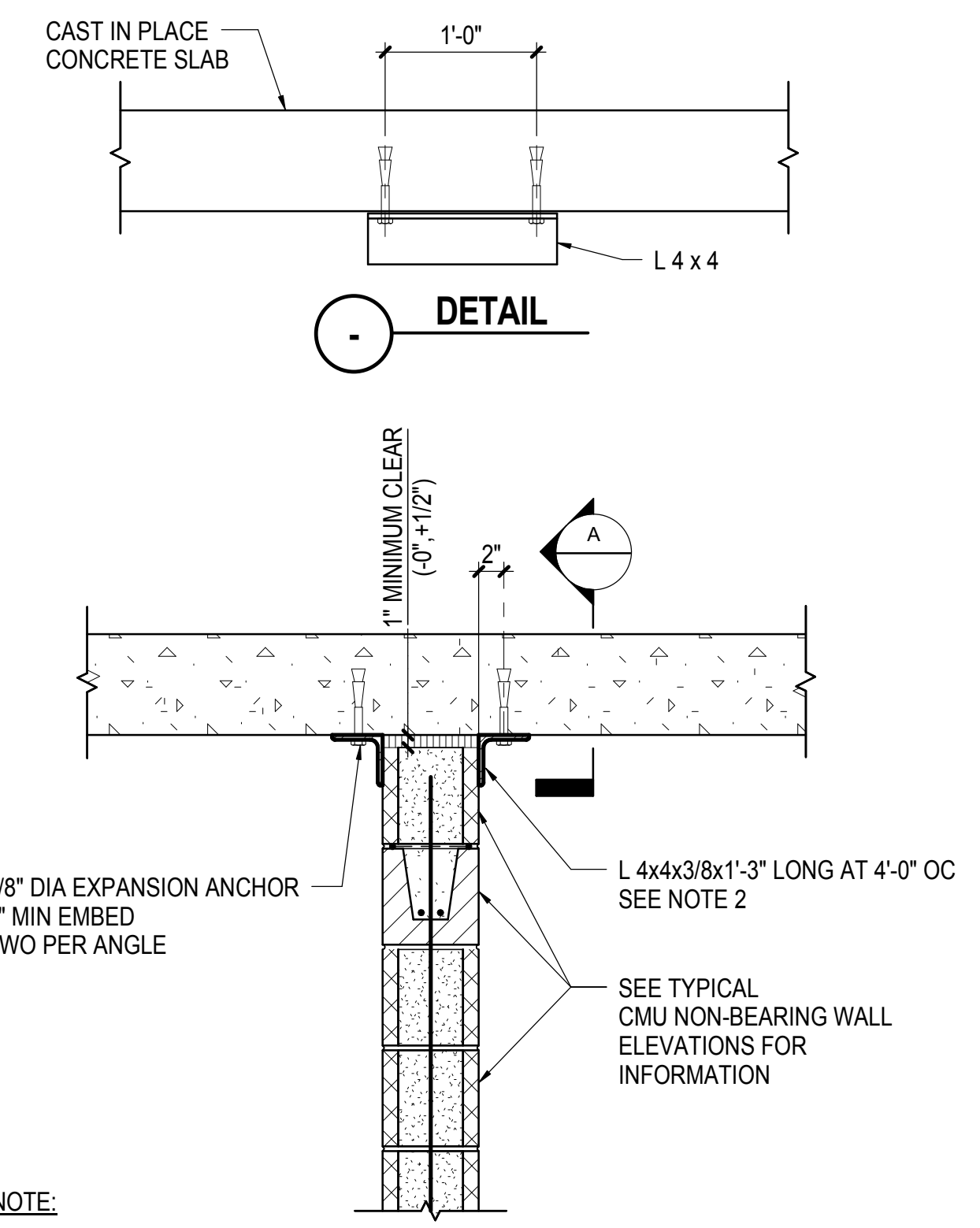
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Panors Transportation Group  
100 Broadway  
New York, NY 10005  
Tel: 212.266.8300 Fax: 212.571.6825

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605 Third Avenue  
New York, NY 10158  
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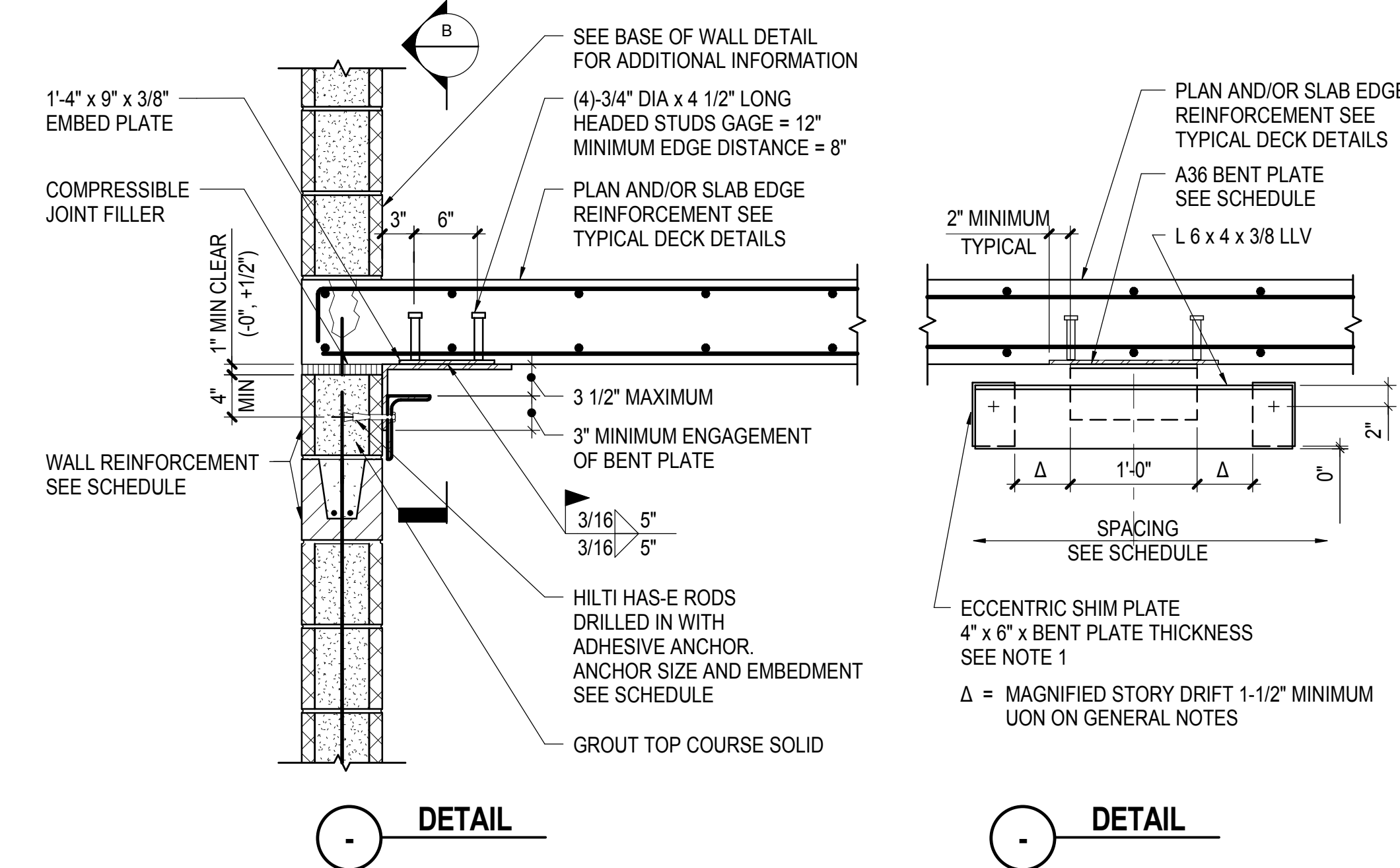
SEISMIC DESIGN CATEGORY	WALL TYPE	MAXIMUM WALL HEIGHT	ASSEMBLY SPACING	ANCHOR SIZE	ANCHOR EMBEDMENT	BENT PL THICKNESS
A, B, C	6"	14'-0"	4'-0"	3/8" DIA	3 1/2"	3/8"
A, B, C	8"	19'-0"	4'-0"	5/8" DIA	5"	3/8"
A, B, C	10"	17'-0"	4'-0"	3/4" DIA	6 5/8"	3/8"
A, B, C	10"	23'-0"	4'-0"	3/4" DIA	6 5/8"	1/2"
A, B, C	12"	26'-0"	4'-0"	3/4" DIA	6 5/8"	1/2"
A, B, C	12"	29'-0"	4'-0"	3/4" DIA	6 5/8"	5/8"
D, E, F	6"	14'-0"	4'-0"	3/8" DIA	3 1/2"	3/8"
D, E, F	8"	15'-0"	4'-0"	5/8" DIA	5"	3/8"
D, E, F	8"	19'-0"	4'-0"	5/8" DIA	5"	1/2"
D, E, F	10"	23'-0"	4'-0"	3/4" DIA	6 5/8"	1/2"
D, E, F	12"	18'-0"	4'-0"	3/4" DIA	6 5/8"	1/2"
D, E, F	12"	29'-0"	3'-0"	3/4" DIA	6 5/8"	5/8"

NOTE:  
1. PROVIDE ADDITIONAL SHIMS IN 11/8" MAXIMUM INCREMENTS SO BENT PLATE CAN SLIDE WITHOUT BINDING OR SHOWING SIGNIFICANT TRANSVERSE PLAY

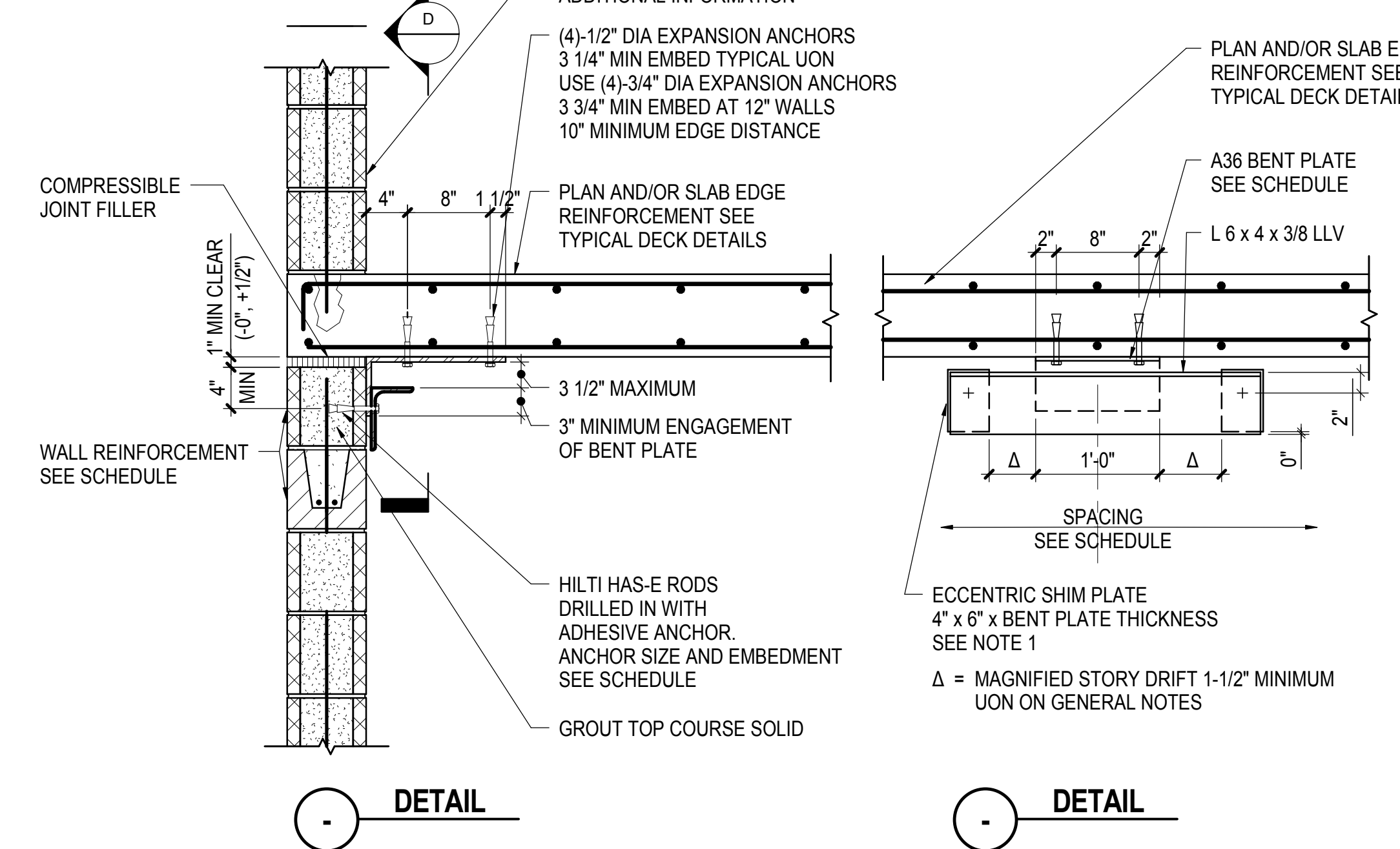


NOTE:  
1. AT CONTINUOUS WALL INTERSECTIONS, SEE TYPICAL PLAN DETAIL AT MASONRY WALL WITH INTERLOCKED INTERSECTIONS FOR BRACE SPACING REQUIREMENTS

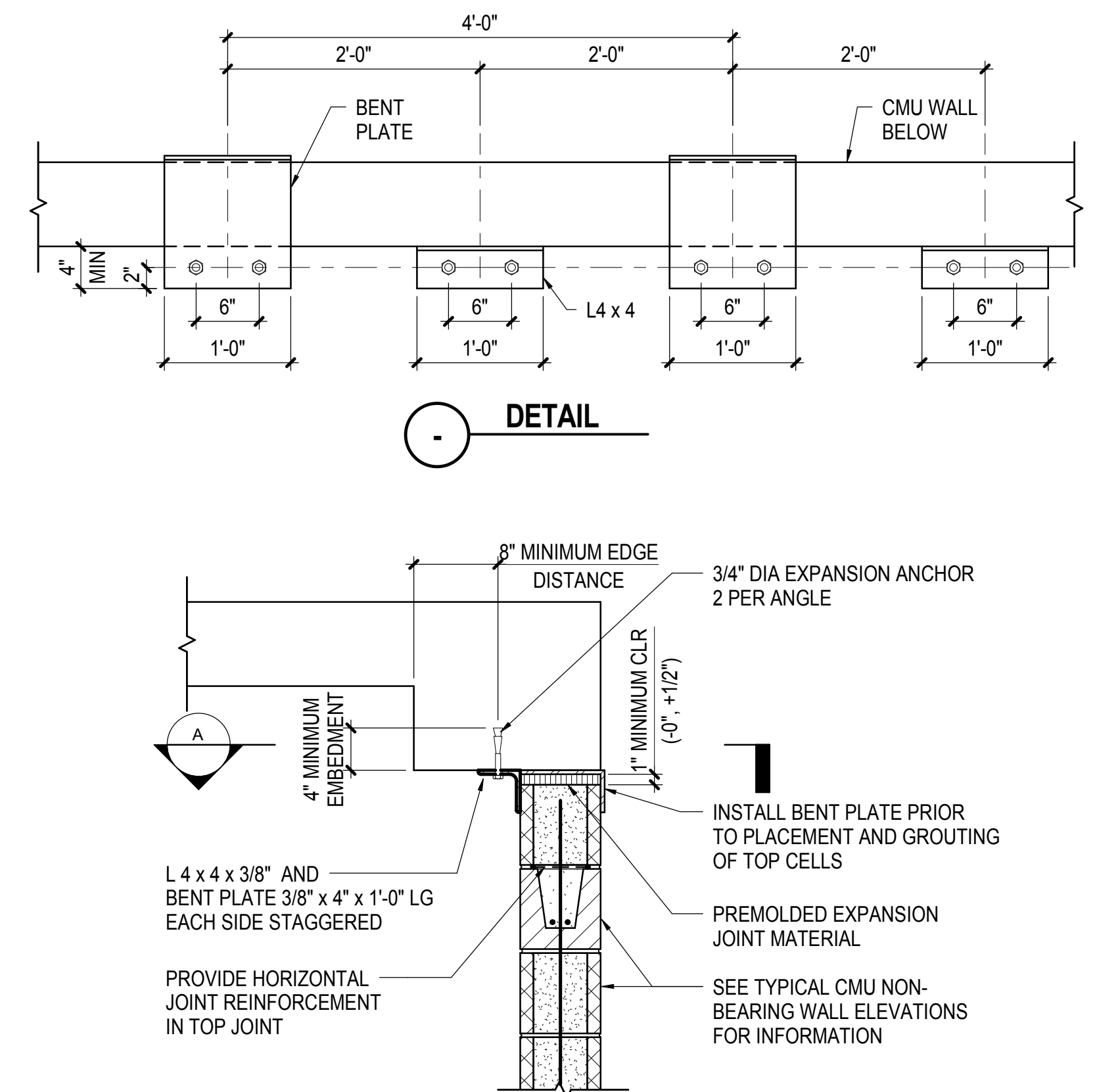
**1 TYPICAL TOP BRACE DETAIL AT INTERIOR CMU WALL TO UNDERSIDE OF CONCRETE SLAB**  
NOT TO SCALE



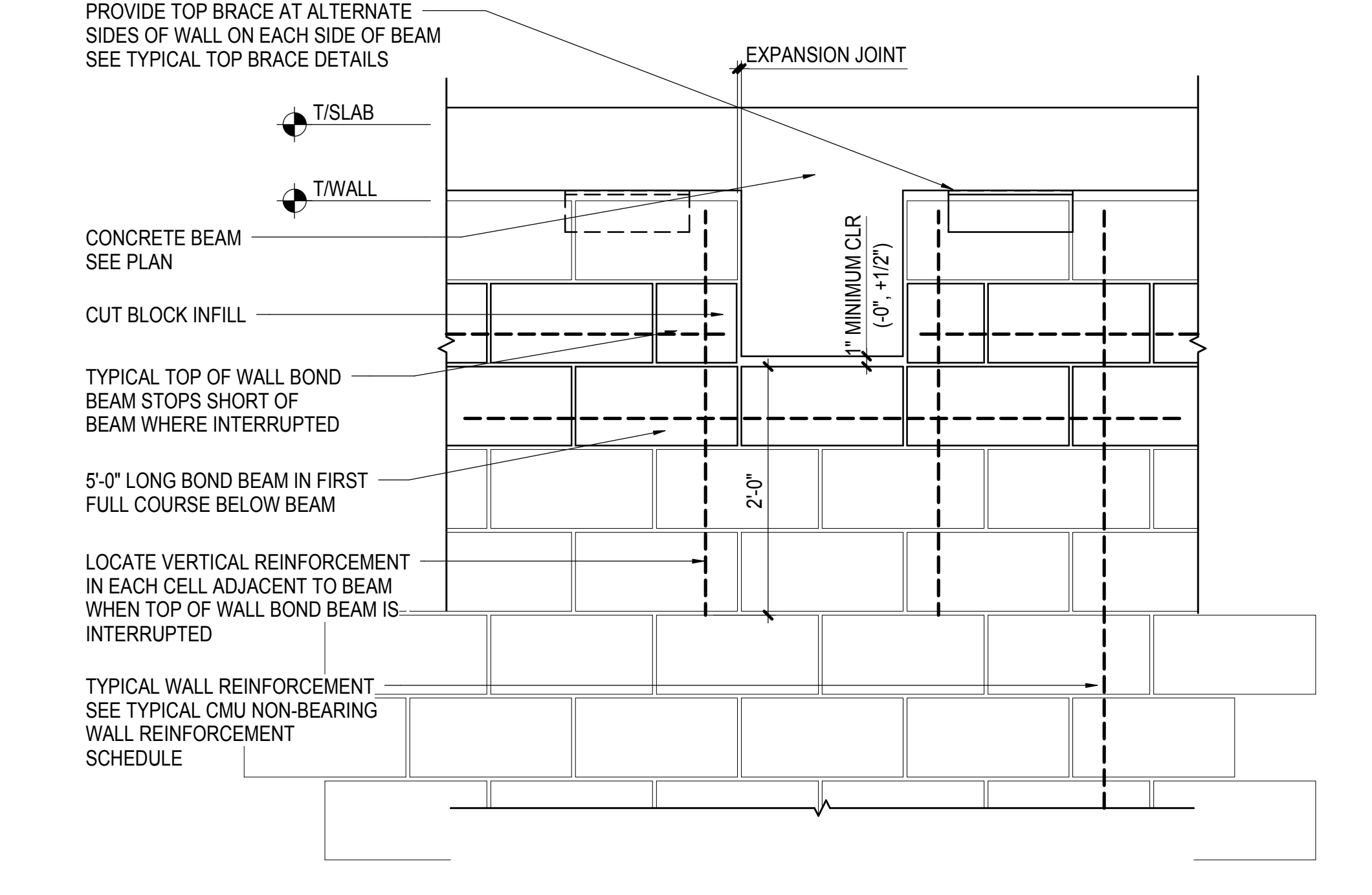
**2 EMBED PLATE AT EXTERIOR EDGE OF CONCRETE SLAB - OPTION 1**  
NOT TO SCALE



**3 POST INSTALLED AT EXTERIOR EDGE OF CONCRETE SLAB - OPTION 2**  
NOT TO SCALE

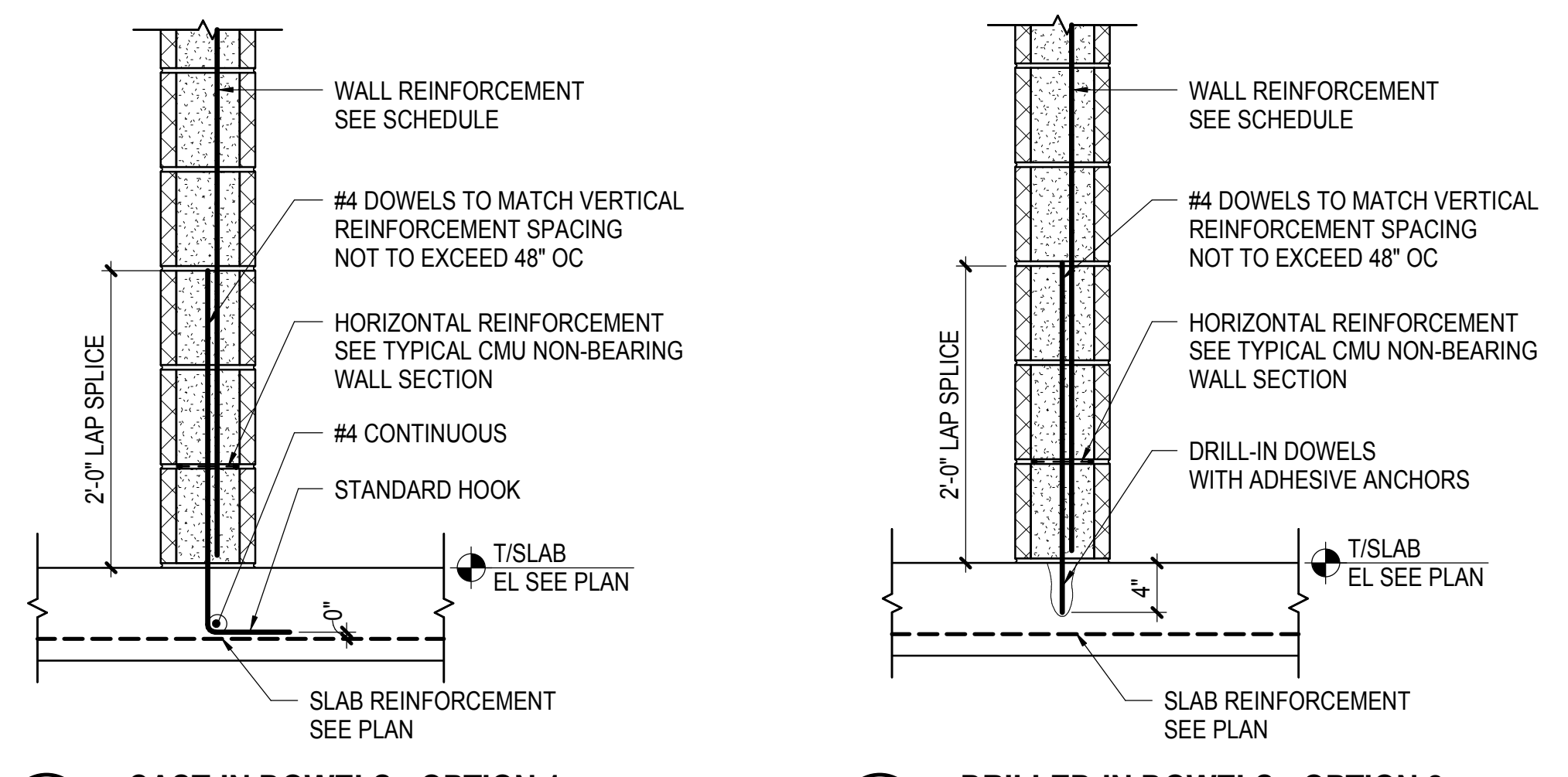


**4 TYPICAL TOP BRACE DETAIL AT INTERIOR CMU WALL TO UNDERSIDE OF CONCRETE BEAM**  
NOT TO SCALE

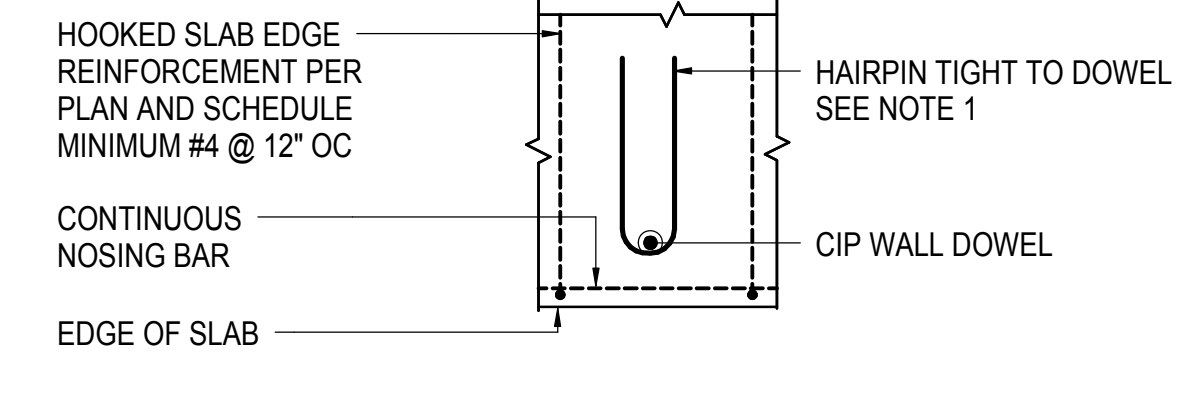


**5 TYPICAL DETAIL OF CMU NON-BEARING WALL AT PERPENDICULAR CONCRETE BEAM**  
NOT TO SCALE

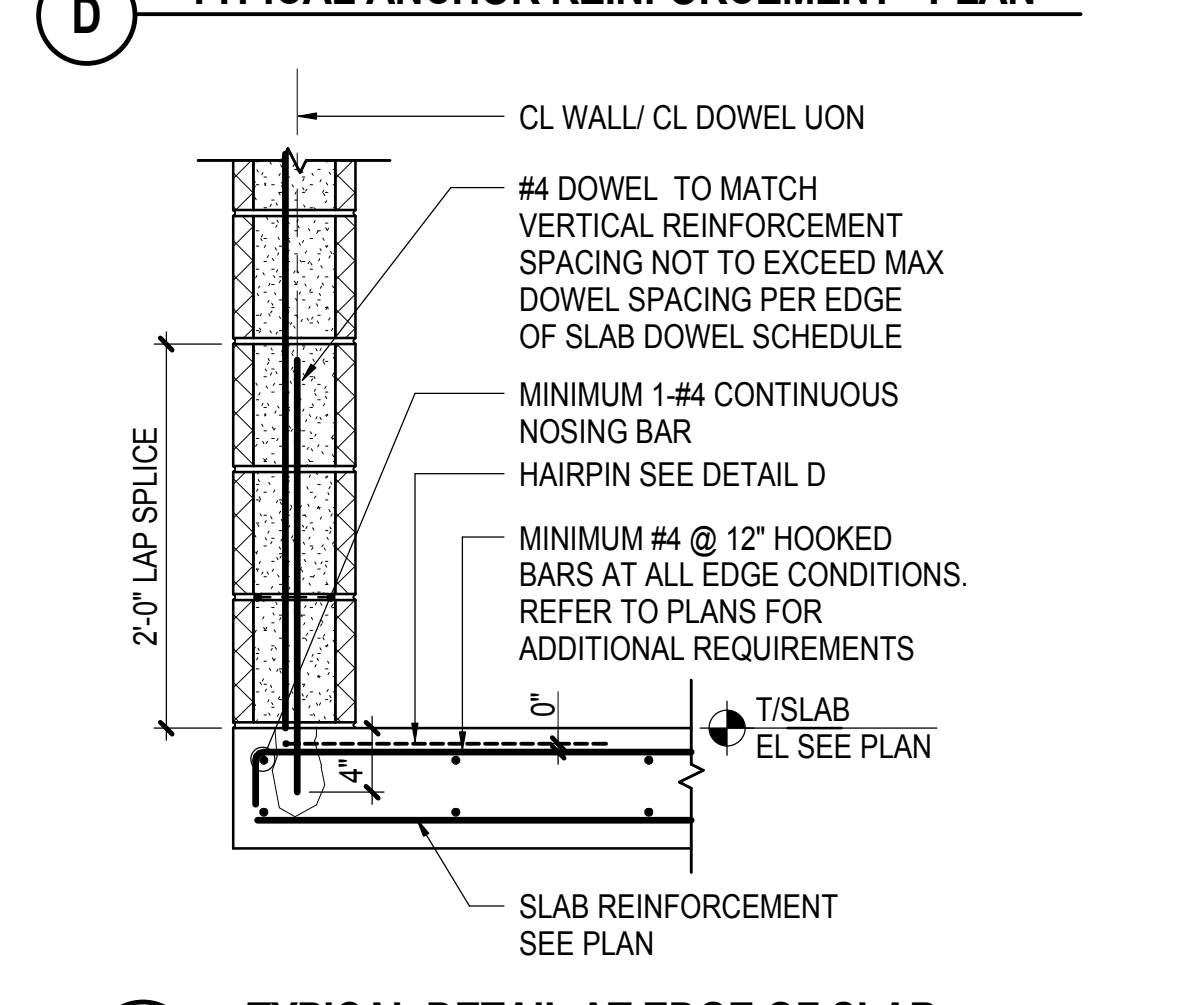
EDGE OF SLAB DOWEL SCHEDULE				
SEISMIC DESIGN CATEGORY	IMPORTANCE FACTOR (I <sub>p</sub> )	DOWEL TYPE	MAX #4 DOWEL SPACING (SEE NOTE 1)	HAIRPIN PER DETAIL D
A, B	1.0/1.5	CIP OR DRILLED IN	48"	NO
C	1.0	CIP	48"	YES
C	1.5	CIP	48" TYP UON 24" FOR WALLS H>20'-0"	YES
D, E, F	1.0/1.5	CIP	48" FOR 6" & 8" WALLS 32" FOR 10" & 12" WALLS	YES



**6 TYPICAL BASE OF CMU NON-BEARING WALL DETAIL AT CONCRETE SLAB**  
NOT TO SCALE



**7 TYPICAL ANCHOR REINFORCEMENT - PLAN**  
NOT TO SCALE

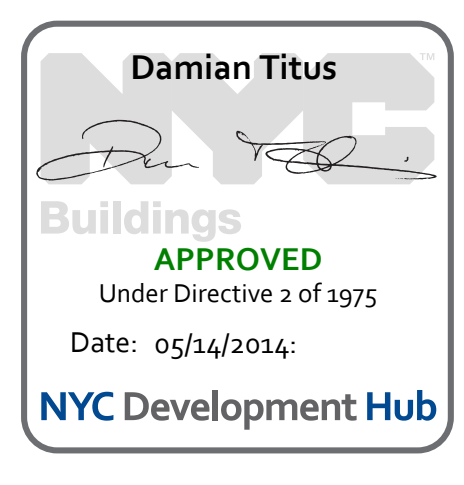


**8 TYPICAL DETAIL AT EDGE OF SLAB**  
NOT TO SCALE

NOTE:  
1. DETAILS ONLY APPLY WHEN ALL OF THE FOLLOWING CONDITIONS ARE MET:  
- VERTICALLY SPANNING NON-STRUCTURAL WALL BRACED AT TOP  
- NORMAL WEIGHT CONCRETE SLABS

NYC DOB FILING	12/4/2013
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DL2C PHASE 1 STRUCTURAL UPDATE	1/11/2013
NYC DOB FILING	10/4/2013
Rev	Description

Rev Plot



Date: 10/03/2013  
Project No: N11330.00  
Drawn By: Author  
Issue Number:

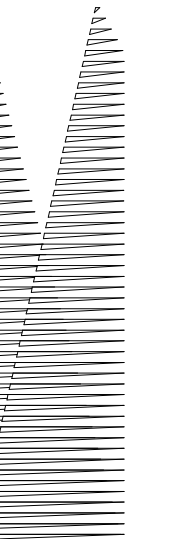
**HYE - PL - S-743.00**  
Drawing Title  
**TYPICAL MASONRY NON-BEARING WALL TO CONCRETE DETAILS**

Drawing Number / B/S/C/S Drawing Number  
**S-743.00**  
SHEET 187 OF 201



**HUDSON YARDS PLATFORM**

Address  
530 WEST 33RD STREET  
NEW YORK, NY



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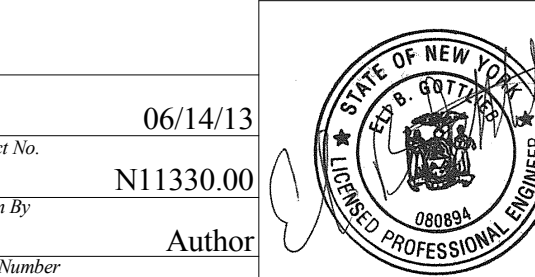
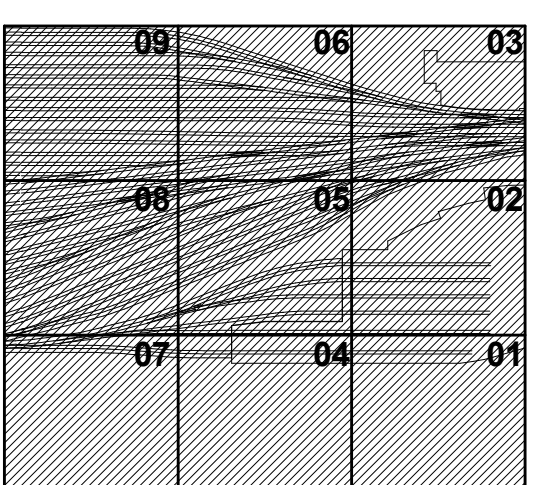
Civil, Mechanical, Electrical, Plumbing,  
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Personnel Transportation Group  
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NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&E PLATFORM SUBMISSION	
Δ DLO1 PHASE I STRUCTURE UPDATE	11/1/2013
LIRR - 90% M.O.E. SUBMISSION	10/4/2013
NYC DOB FILING	10/4/2013
Δ DLO1 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
LIRR - 60% M.O.E. SUBMISSION	7/12/2013
NYC DOB FILING	6/17/2013
LIRR - 30% M.O.E. SUBMISSION	6/14/2013

Rev. Plot

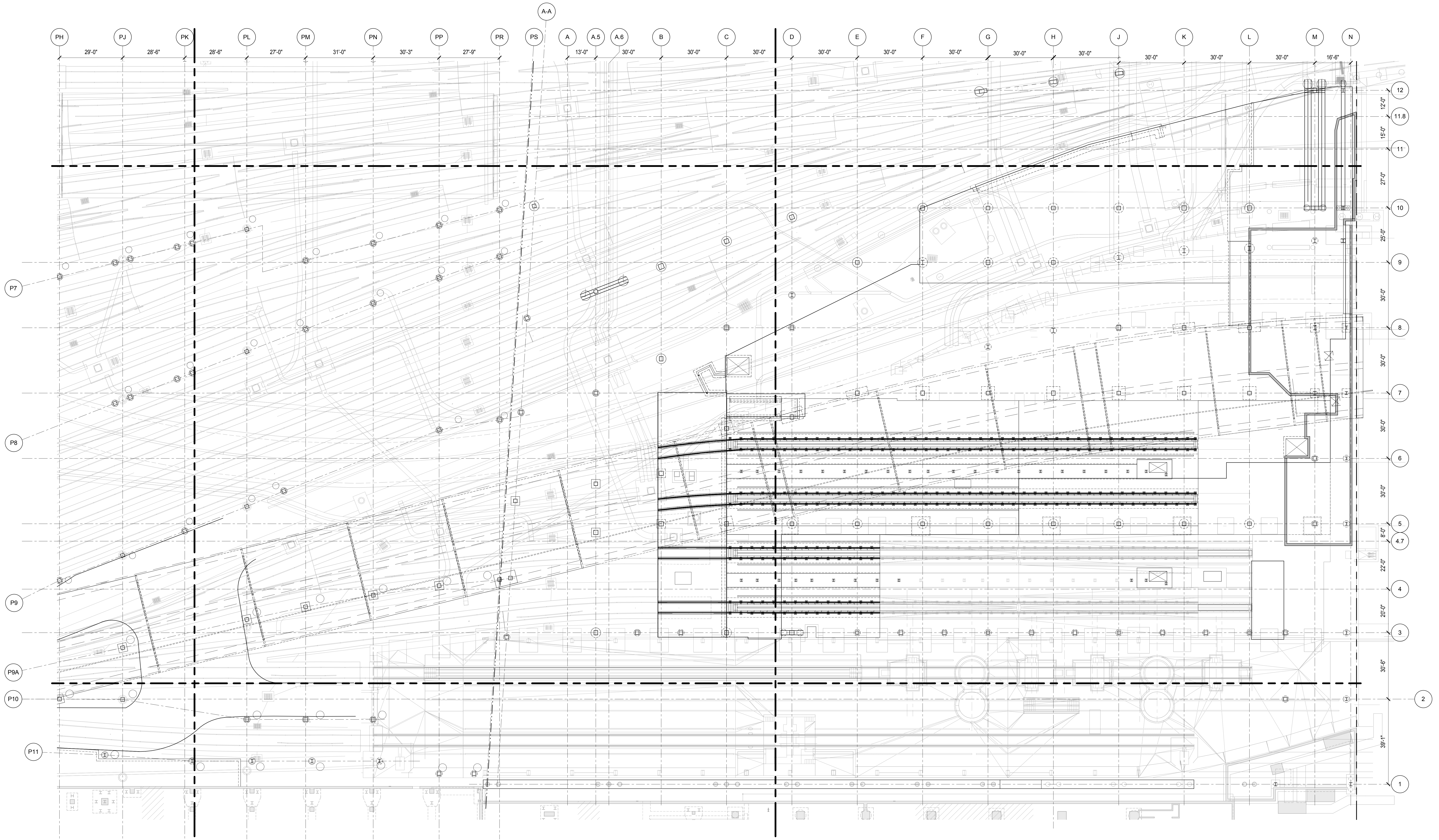


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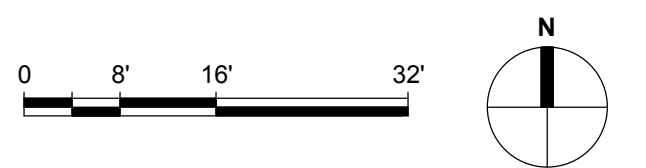
**OVERALL SLAB PLAN  
M.O.E. TRACK LEVEL**

Drawing Number / B.S.C.A.S. Drawing Number  
**S-800.00**

SHEET 188 OF 201

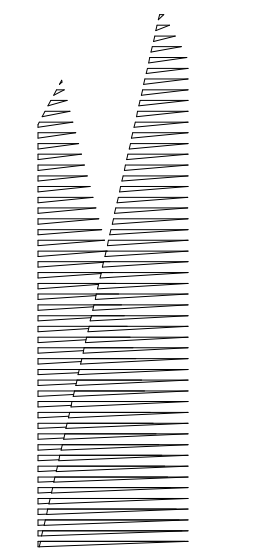


**Damian Titus**  
Buildings  
**APPROVED**  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub



S-800.00  
11/22/2013 8:52:42 PM  
C:\Schematic\11330\_00 - East Platform - Central\_Convnt





**Client**  
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60 Columbus Circle  
New York, NY 10023  
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**Owner**  
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Parsons Transportation Group  
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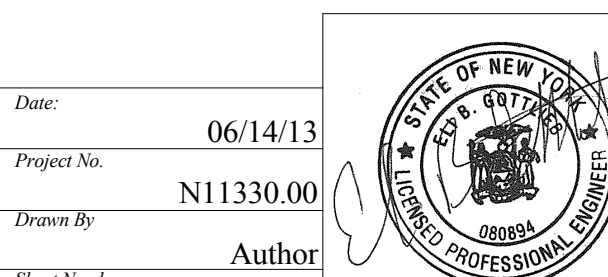
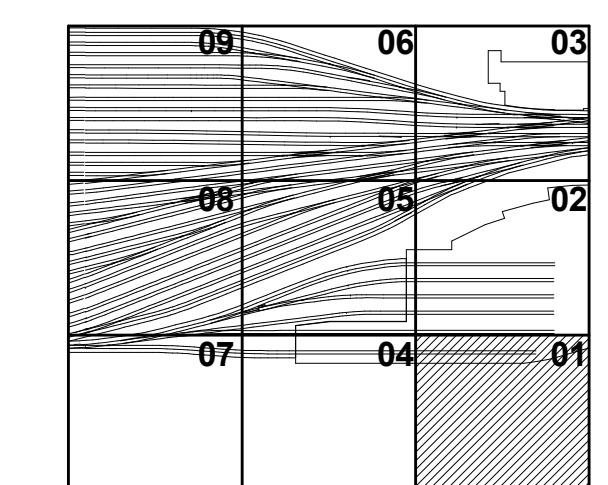
**LIRR Ventilation**  
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NYC DOB FILING	Date
L.I.R.R. - PRE-FINAL 100%	12/4/2013
M&T PLATFORM SUBMISSION	11/22/2013
Δ D1-02 PHASE I STRUCTURAL UPDATE	11/1/2013
LIRR - 90% M.O.E. SUBMISSION	10/4/2013
NYC DOB FILING	10/4/2013
Δ D1-01 PHASE I STRUCTURAL UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
LIRR - 60% M.O.E. SUBMISSION	7/12/2013
NYC DOB FILING	6/17/2013
LIRR - 30% M.O.E. SUBMISSION	6/14/2013

NYC DOB FILING	Date
L.I.R.R. - PRE-FINAL 100%	12/4/2013
M&T PLATFORM SUBMISSION	11/22/2013
Δ D1-02 PHASE I STRUCTURAL UPDATE	11/1/2013
LIRR - 90% M.O.E. SUBMISSION	10/4/2013
NYC DOB FILING	10/4/2013
Δ D1-01 PHASE I STRUCTURAL UPDATE	9/20/2013
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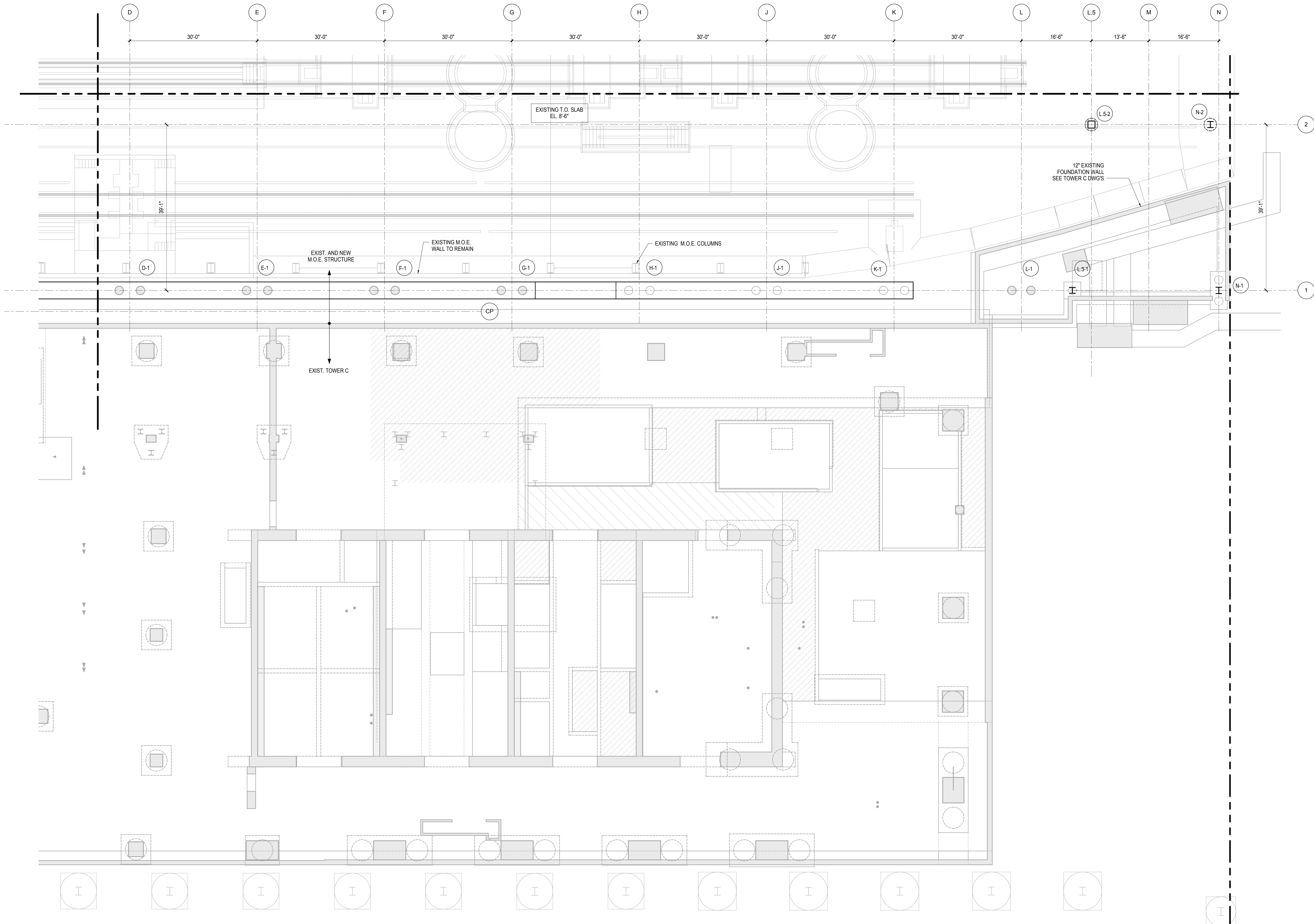
Key Plan



**HYE - PL - S-801.00**

**SLAB PLAN M.O.E. TRACK LEVEL SECTOR 01**

Drawing Number / B/S/C/S Drawing Number  
**S-801.00**



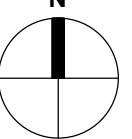
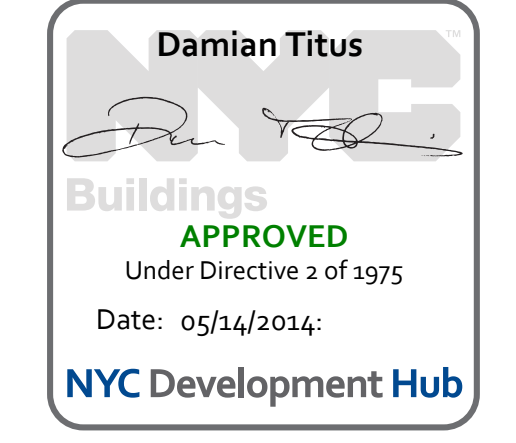
**SHEET NOTES:**

- SEE GENERAL NOTES FOR CONCRETE COMPRESSIVE STRENGTH
- T/FOOTING = EL. YY'-Y", AS SHOWN ON PLAN
- FOR ADDITIONAL INFORMATION REFER TO THE FOLLOWING DRAWINGS:  
DRAWING LISTS, GENERAL NOTES, AND LOADING DIAGRAMS S0 SERIES DRAWINGS  
TYPICAL FOUNDATION DETAILS S3 SERIES DRAWINGS  
STEEL COLUMN SCHEDULES S4 SERIES DRAWINGS  
STEEL TYPICAL DETAILS S7 SERIES DRAWINGS
- MAXIMUM TOP OF ROCK SOCKET SHOWN ON S-310.00 TO S-313.00 IS THE HIGHEST ELEVATION AT WHICH ROCK SOCKET BEGINS.
- ROCK COUNTOURS ARE BY LANGAN GEOTECHNICAL ENGINEERS. ACTUAL TOP OF ROCK AND SOCKET TO BE FIELD VERIFIED BY THE CONTRACTOR AND GEOTECHNICAL ENGINEER.
- EXISTING UTILITIES, BUILDINGS AND TUNNELS ARE SHOWN FOR REFERENCE ONLY. LOCATIONS AND DIMENSIONS OF ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED. SEE GENERAL NOTES SHEET S-003.00 FOR REFERENCES TO EXISTING DRAWINGS.

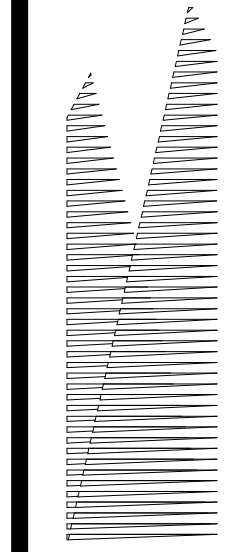
- DIMENSIONS ON SHEETS S-310.00 TO S-313.00 NOTED AS CLEARANCE TO TRACK IS THE DISTANCE BETWEEN CENTERLINE OF TRACK TO FACE OF COLUMN.
- DIMENSIONS SHOWN ON S-121.00 TO S-129.00 SHOW THE DISTANCE BETWEEN THE FACE OF EXISTING TUNNEL (V.I.F.) AND THE FACE OF PERMANENT STEEL CASING.

**LEGEND:**

- EXC INDICATES EXISTING CAISSON.
- EXF INDICATES EXISTING FOOTING
- CX-Y INDICATES NEW CAISSON
- PCX-Y INDICATES NEW PILECAP
- INDICATES NEW CONCRETE FILLED STEEL COLUMN
- INDICATES NEW CONCRETE FILLED STEEL COLUMN
- INDICATES NEW STEEL WIDE-FLANGE COLUMN
- ⊥ TB INDICATES NEW TIE BEAM
- ⊙ INDICATES NEW ROCK ANCHOR







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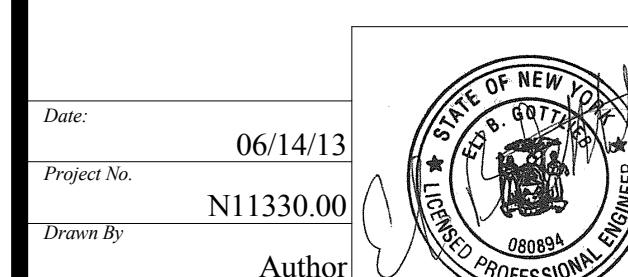
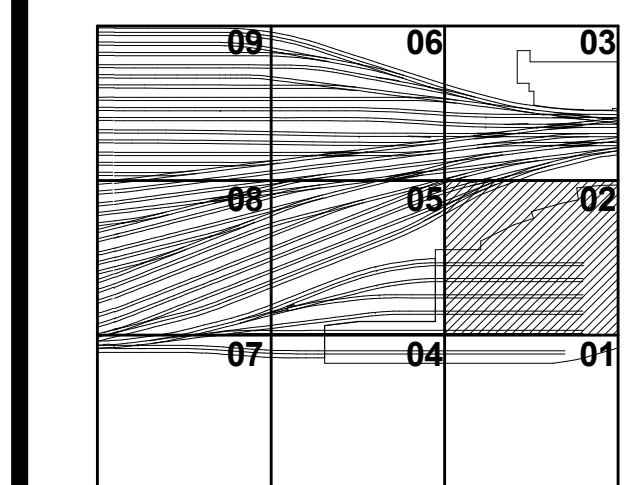
Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
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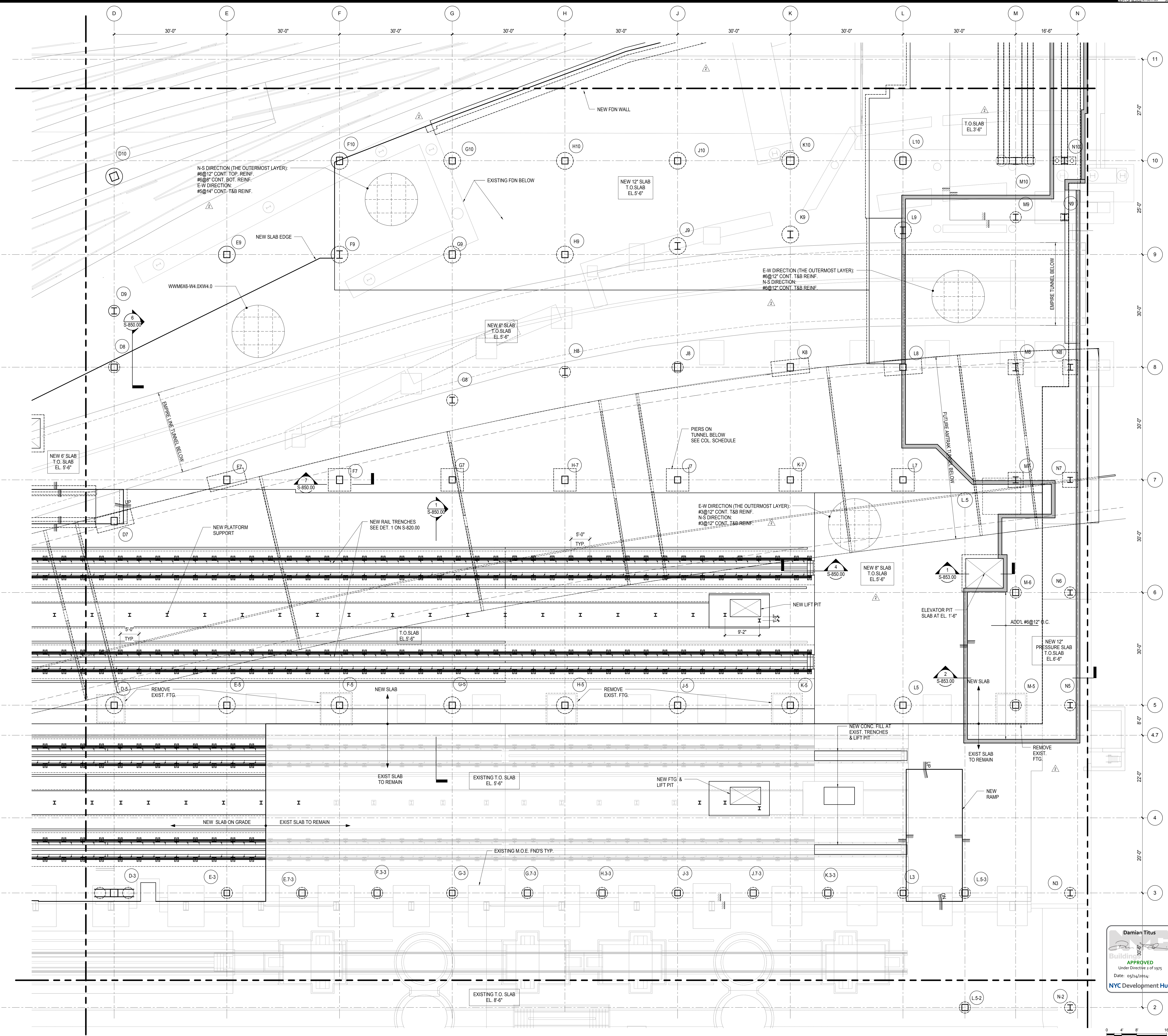
NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
M&T PLATFORM SUBMISSION	
Δ D1-02 PHASE I STRUCTURAL UPDATE	11/1/2013
LIRR - 90% M.O.E. SUBMISSION	10/4/2013
NYC DOB FILING	10/4/2013
Δ D1-01 PHASE I STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
LIRR - 60% M.O.E. SUBMISSION	7/12/2013
NYC DOB FILING	6/17/2013
LIRR - 30% M.O.E. SUBMISSION	6/14/2013
NYC Description	06

Fig. Plan

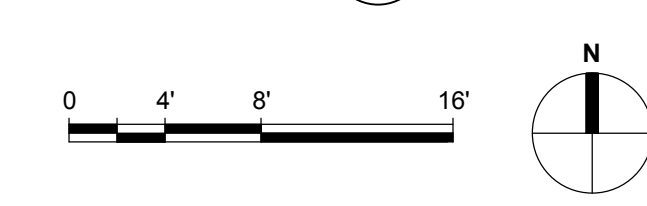


Date: 06/14/13  
Project No: N11330.00  
Drawing Title: **HYE - PL - S-802.00**  
Author: Damian Titus  
Drawing Title: **SLAB PLAN M.O.E. TRACK LEVEL SECTOR 02**

Drawing Number: /B/S/C/S Drawing Number  
**S-802.00**  
SHEET 190 OF 201



**Damian Titus**  
300  
Building  
APPROVED  
Under Directive 2 of 1975  
Date: 05/14/2014  
NYC Development Hub

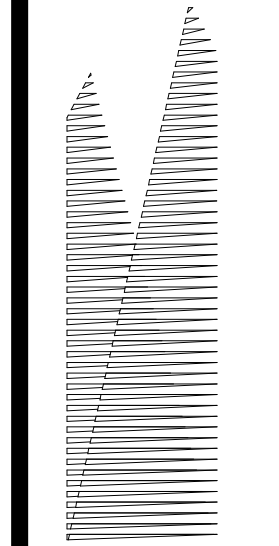


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11/22/2013 8:28:18 PM  
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**Client**  
Related Companies  
60 Columbus Circle  
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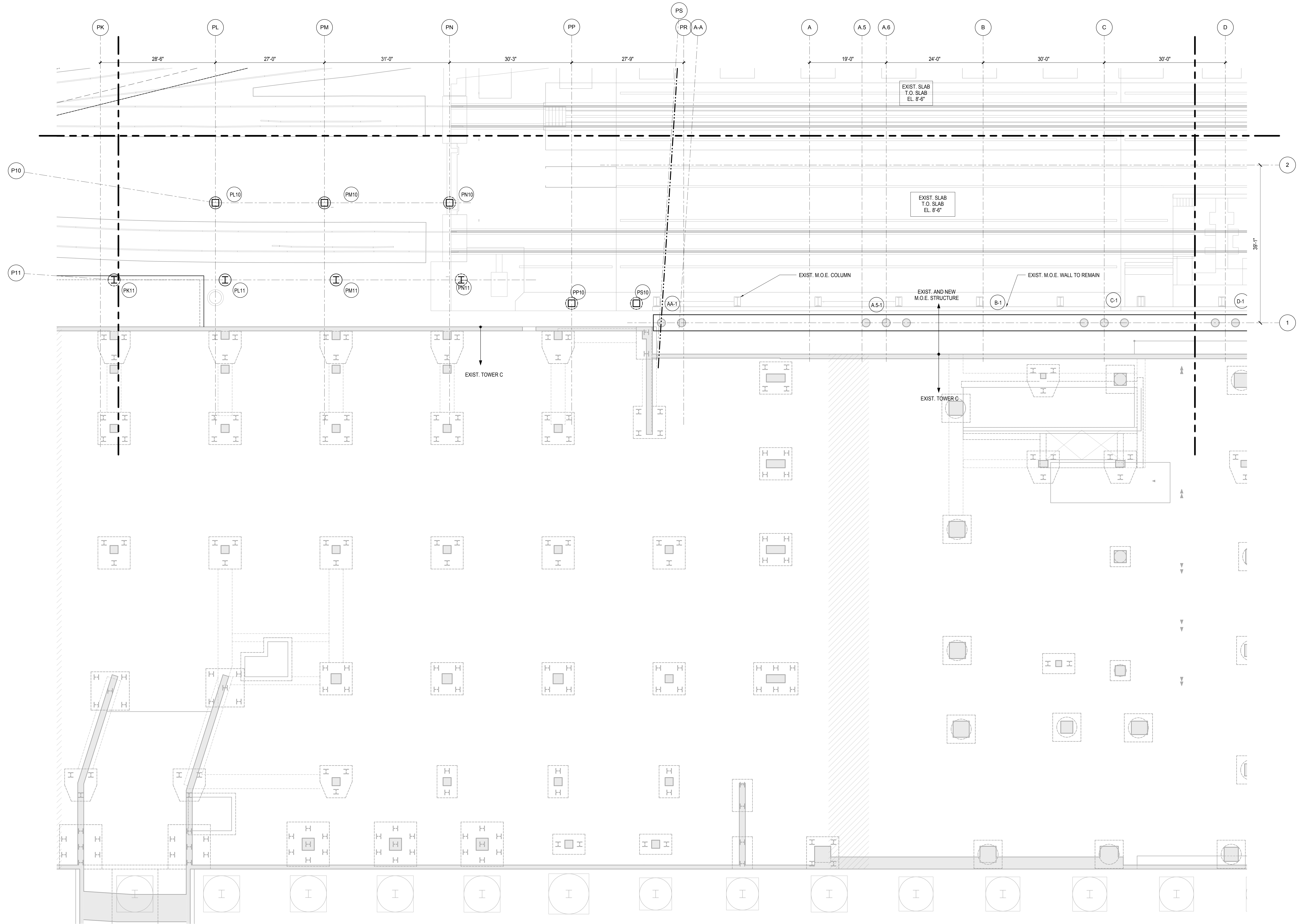
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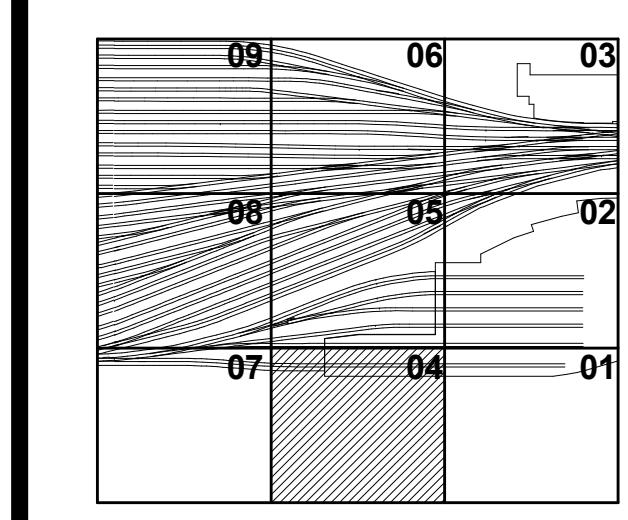
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LIRR - 90% M.O.E. SUBMISSION	10/4/2013
NYC DOB FILING	10/4/2013
Δ D1-01 PHASE I STRUCTURAL UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
LIRR - 60% M.O.E. SUBMISSION	7/12/2013
NYC DOB FILING	6/17/2013
LIRR - 30% M.O.E. SUBMISSION	6/14/2013
NYC DOB FILING	6/14/2013

Fig. Plan

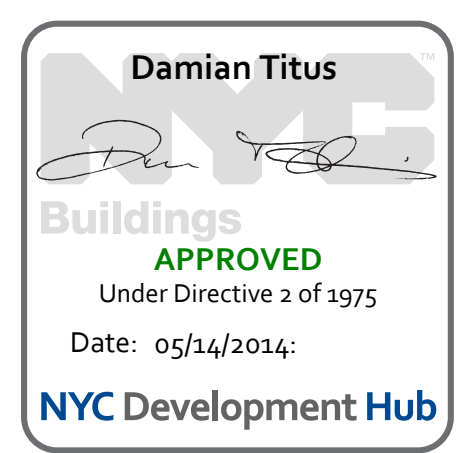


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Project No: N11330.00  
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Drawing Title:  
**SLAB PLAN M.O.E.  
TRACK LEVEL SECTOR  
04**

Drawing Number / B/S/C/S Drawing Number:  
**S-804.00**

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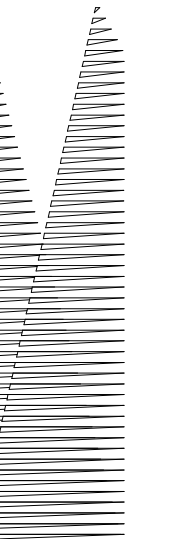


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Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

Oxford Properties Group  
320 Park Avenue, 17th Floor  
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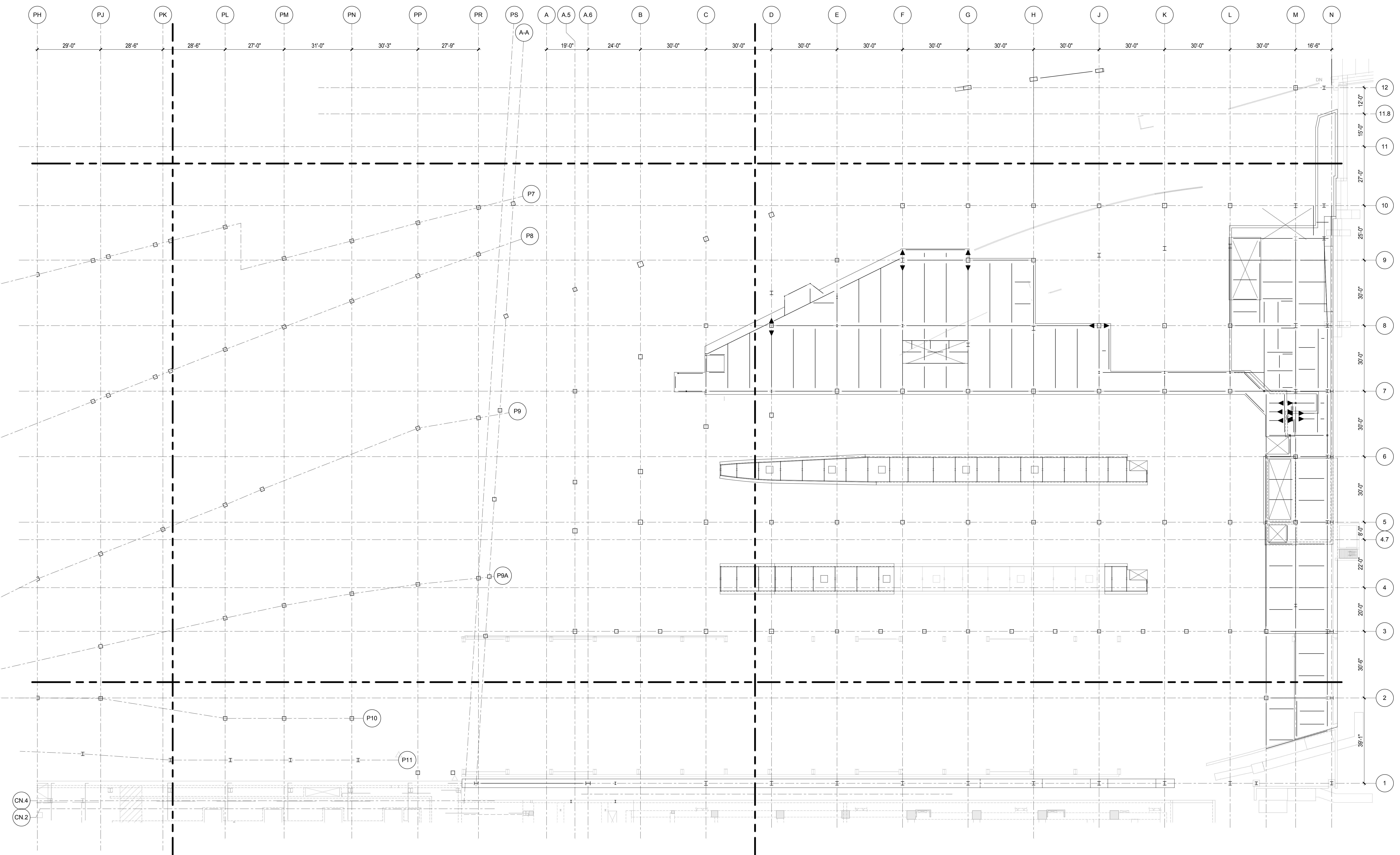
Architect  
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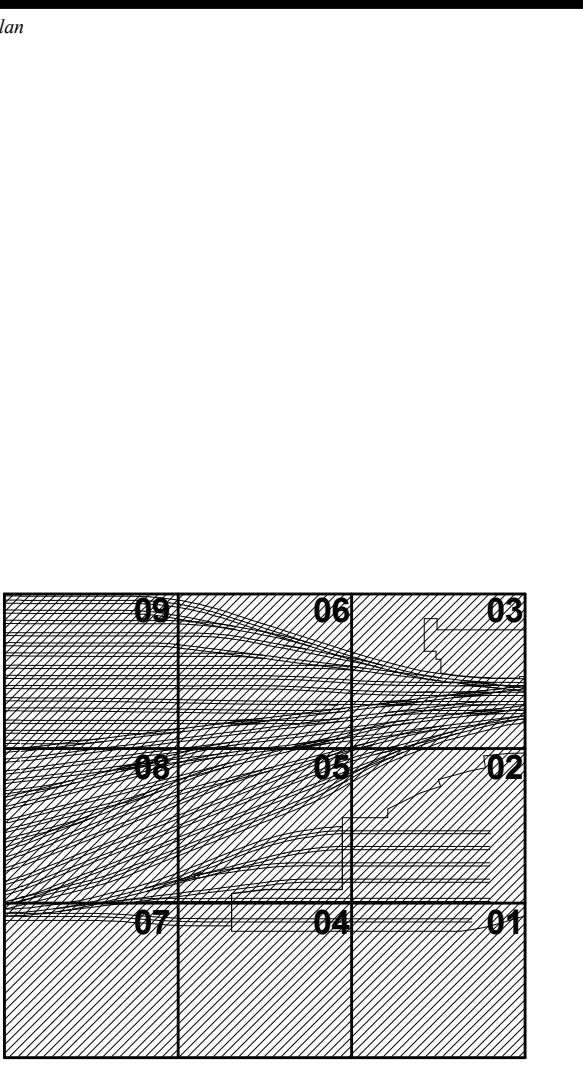
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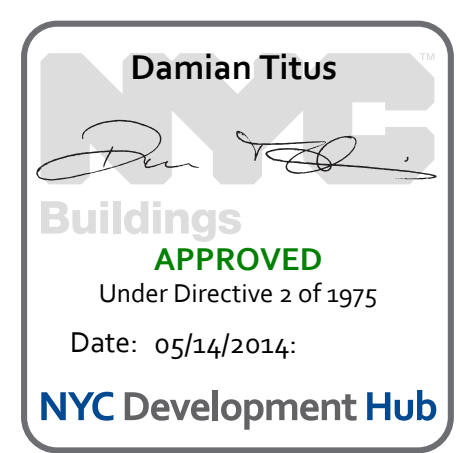
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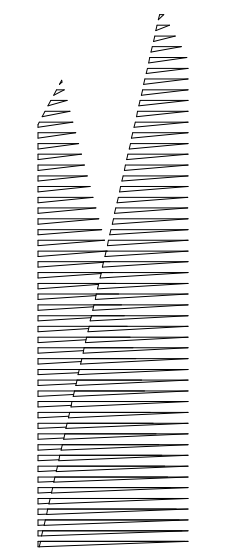
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Project No: N11330.00  
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**HYE-PL-S-810.00**  
Drawing Title  
**OVERALL FRAMING  
PLAN M.O.E. CONTROL  
TOWER LEVEL**

Drawing Number / B.S.C.A.S. Drawing Number  
**S-810.00**







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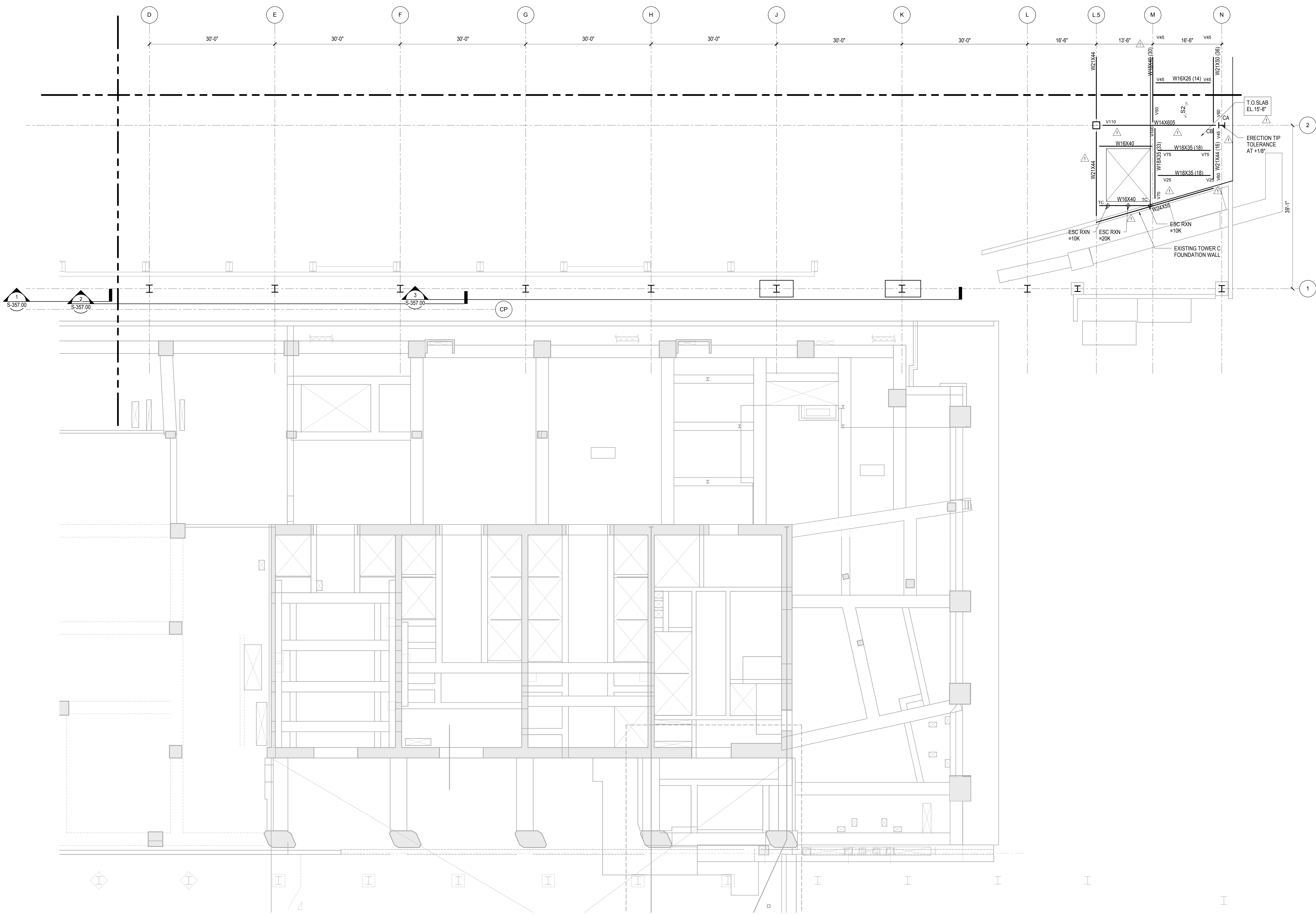
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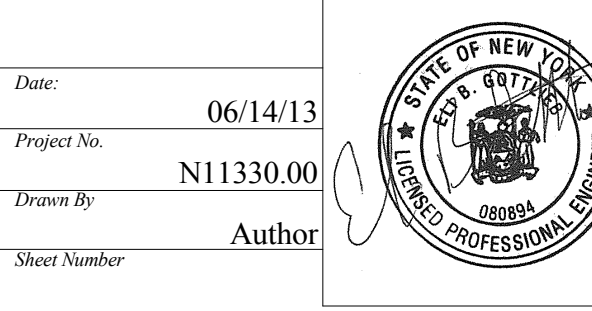
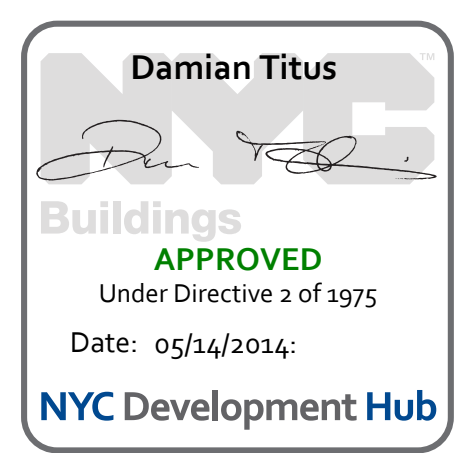
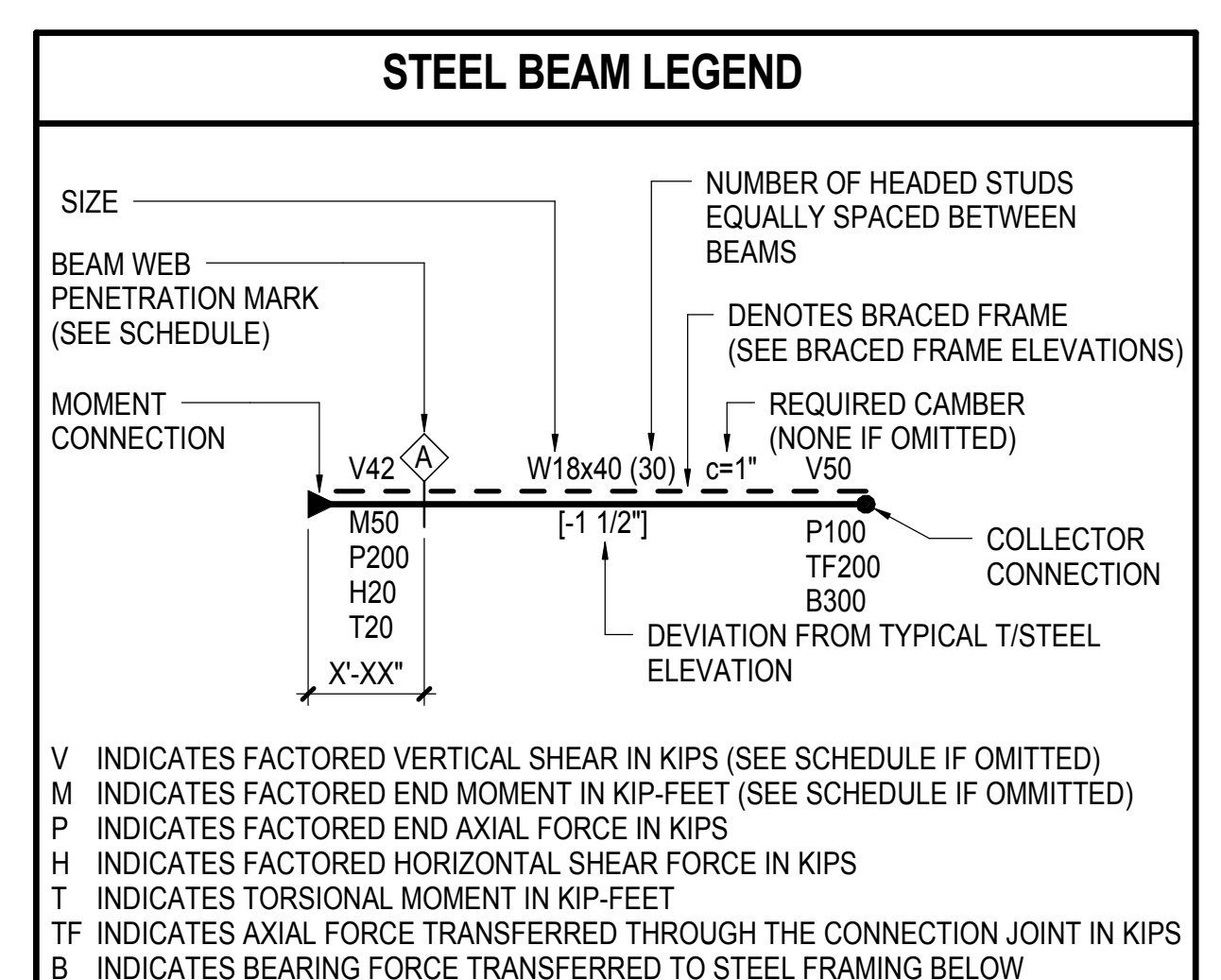
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- SHEET NOTES:**
- T/STRUCTURAL SLAB EL+ UNON THUS:  
X - INDICATES CHANGE IN T/STRUCTURAL SLAB ELEVATION.
  - T/STEEL EL UNON
  - ← INDICATES DECK SPAN DIRECTION. SEE SCHEDULE ON S-003.00
  - FOR ADDITIONAL INFORMATION REFER TO THE FOLLOWING DRAWINGS:  
DRAWING LISTS, GENERAL NOTES, AND LOADING DIAGRAMS S0 SERIES DRAWINGS  
TYPICAL FOUNDATION DETAILS S3 SERIES DRAWINGS  
STEEL COLUMN SCHEDULES S4 SERIES DRAWINGS  
STEEL TYPICAL DETAILS S7 SERIES DRAWINGS

- 5. SYMBOLS:**
- INDICATES MOMENT CONNECTION
  - INDICATES LATERAL BRACING.
  - INDICATES FULL HEIGHT FITTED STIFFENER CONNECTION.
  - UP INDICATES SLOPE IN TOP OF SLAB
  - INDICATES SPLICE LOCATIONS. SEE S-512.00 FOR DETAILS
  - INDICATES LOCATION OF SLAB TRENCHES. SEE S-341.00 FOR DETAILS
  - INDICATES SLAB OPENING FOR DRAINAGE. TYPICALLY 2'-0". FINAL POSITION BETWEEN BEAMS TO BE COORDINATED WITH ARCHITECT.

- 6. NOTATIONS:**
- CA/CB INDICATES COLUMN ABOVE/BELOW. COMPRESSION AXIAL FORCE IN COLUMN INDICATED WHERE APPLICABLE.
  - PA/PB INDICATES POST ABOVE / BELOW
  - DB INDICATES HSS8X4X3/8 ELEVATOR DIVIDER BEAM (NOT FIREPROOFED)
  - HA/HB INDICATES HANGER ABOVE/BELOW. TENSION AXIAL FORCE IN HANGER BELOW INDICATED WHERE APPLICABLE
  - MF INDICATES LATERAL MOMENT FRAME. SEE MOMENT FRAME ELEVATIONS FOR BEAM INFORMATION AND CONNECTION FORCES
  - PG INDICATES PLATE GIRDER TYPE. SEE S-511.00 FOR SCHEDULE AND DETAILS
  - TC INDICATES TORSIONAL CONNECTION FOR STAIR
  - TR INDICATES COLUMN FROM ABOVE TRANSFERS. COMPRESSION AXIAL FORCE IN COLUMN INDICATED WHERE APPLICABLE
  - BF INDICATES BRACED FRAME. SEE ELEVATIONS
  - FCA INDICATES FUTURE COLUMN ABOVE
  - FHA INDICATES FUTURE HANGER ABOVE



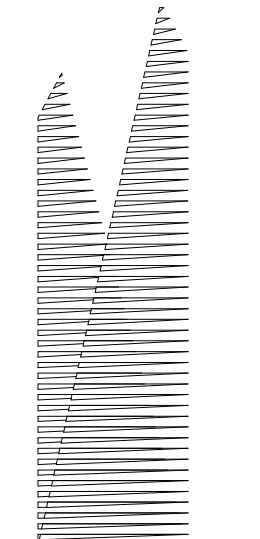
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Drawing No: N11330.00  
Title: HYE-PL-S-811.00  
Date: 05/14/2014

**HYE-PL-S-811.00**  
**FRAMING PLAN M.O.E. CONTROL TOWER LEVEL SECTOR 01**



**HUDSON YARDS PLATFORM**

Address  
530 WEST 33RD STREET  
NEW YORK, NY



Client  
Related Companies  
60 Columbus Circle  
New York, NY 10023  
Tel: 212.801.1000 Fax: 212.801.1048

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L.I.R.R. - 30% M.O.E. SUBMISSION 6/14/2013

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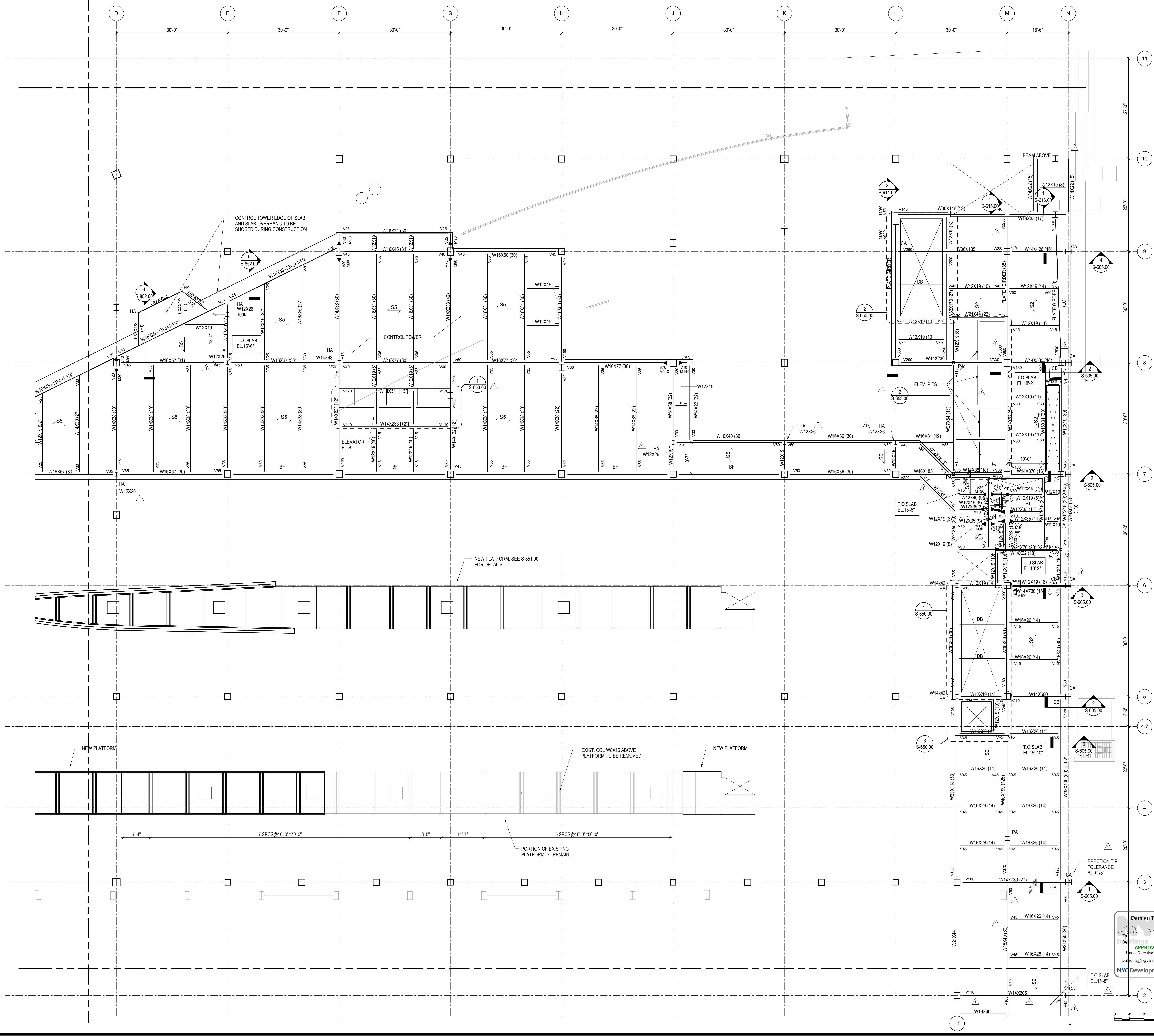
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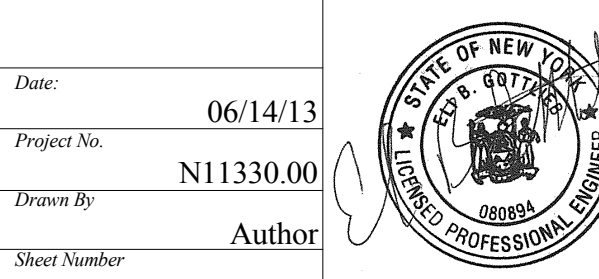
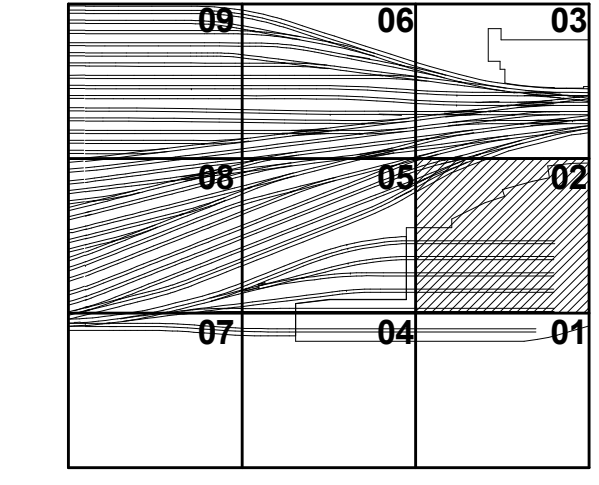
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**Damian Titus**  
Structural Engineer  
Approved  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub



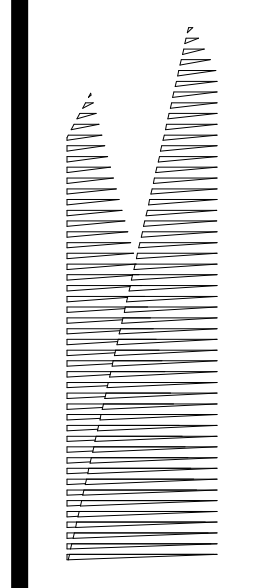
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**FRAMING PLAN M.O.E. CONTROL TOWER LEVEL SECTOR 02**

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**S-812.00**

SHEET 196 OF 201

S-812.00  
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**Owner**  
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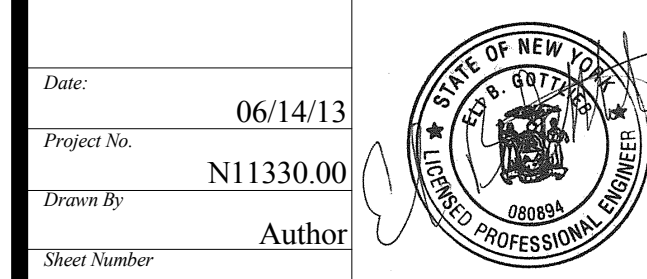
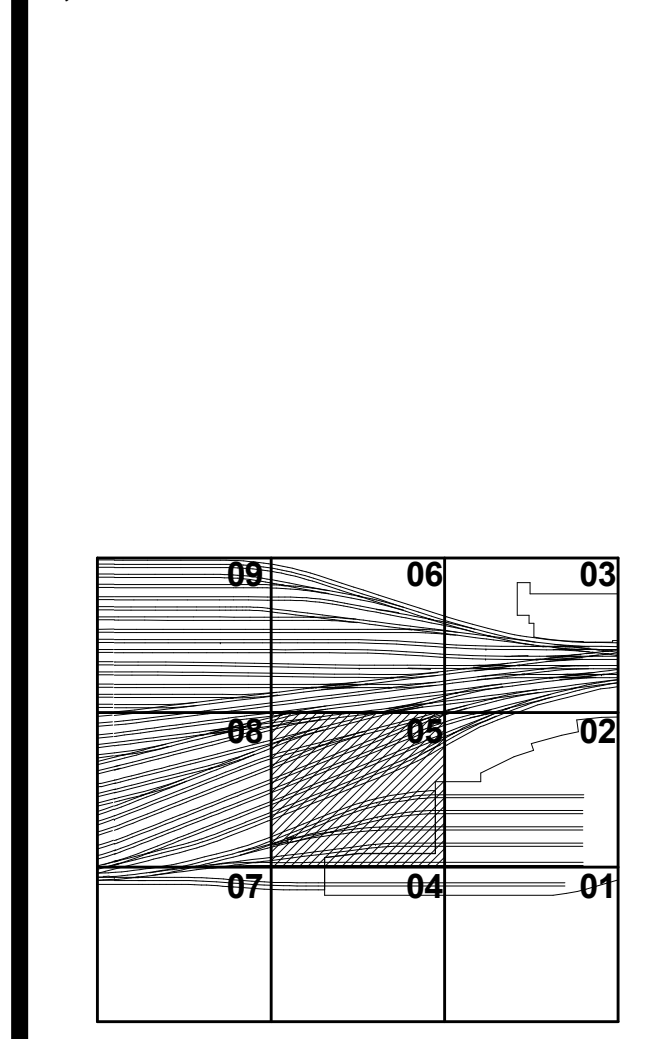
**Civil, Mechanical, Electrical, Plumbing, Fire Alarm, Fire Protection, Security**  
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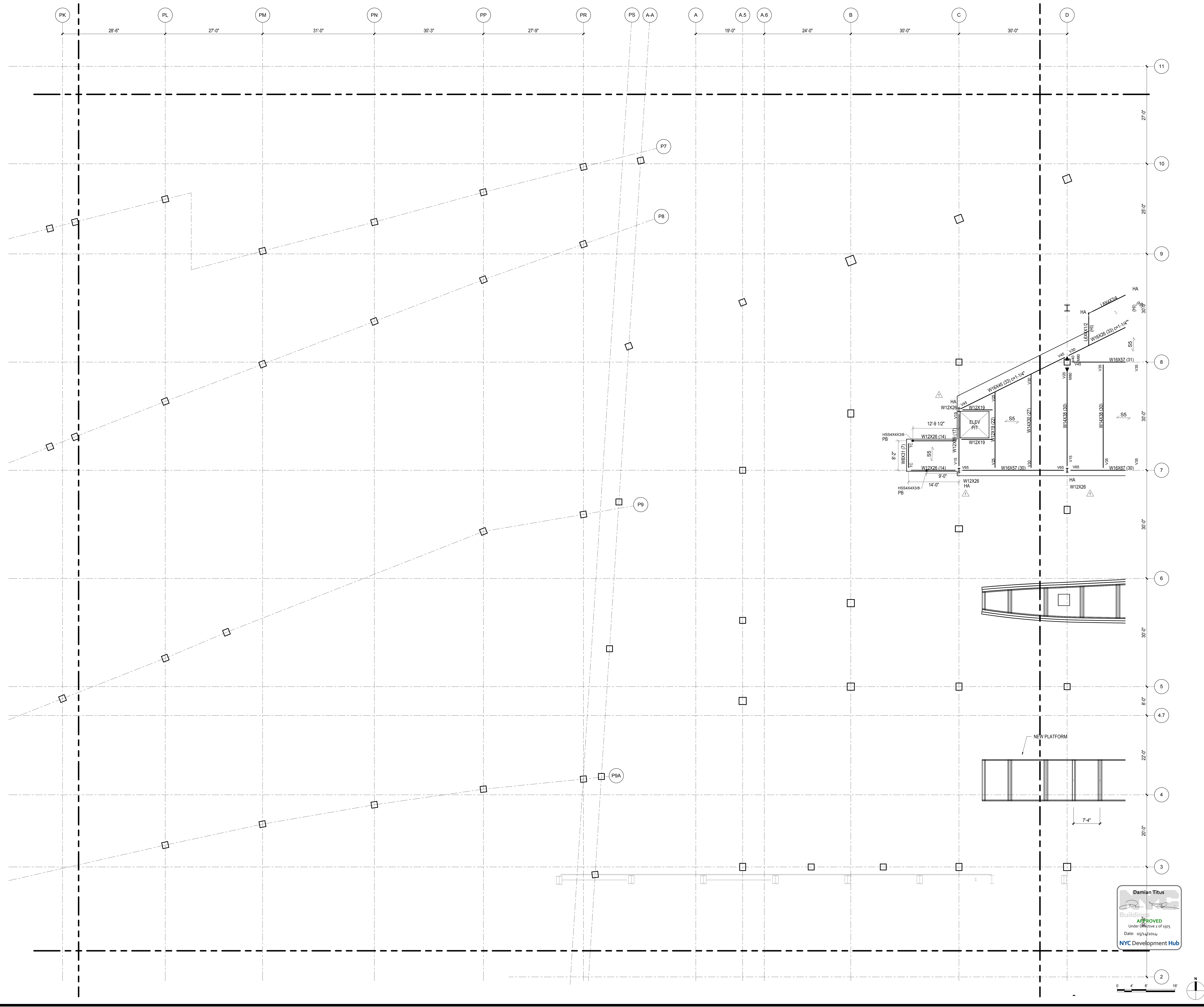
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NYC DOB FILING	Date
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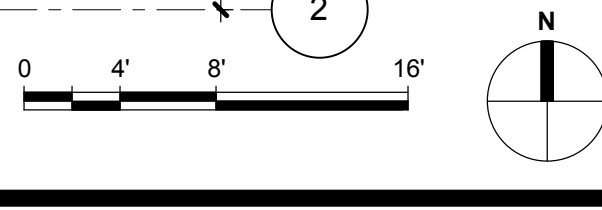
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Drawing Title  
**FRAMING PLAN  
M.O.E. CONTROL  
TOWER LEVEL  
SECTOR 05**

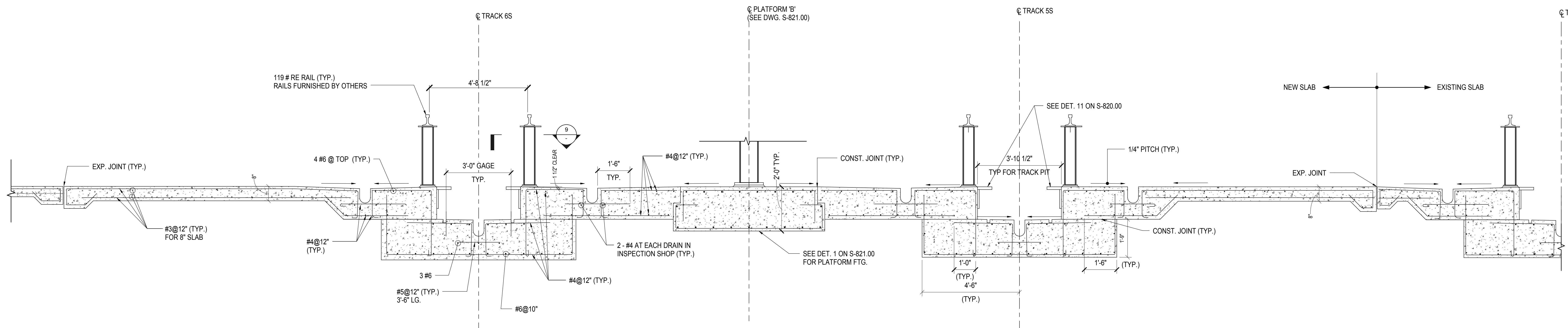


**Damian Titus**  
Building APPROVED  
Under Article 23 of the Rules of the City of New York  
Date: 05/14/2014  
NYC Development Hub

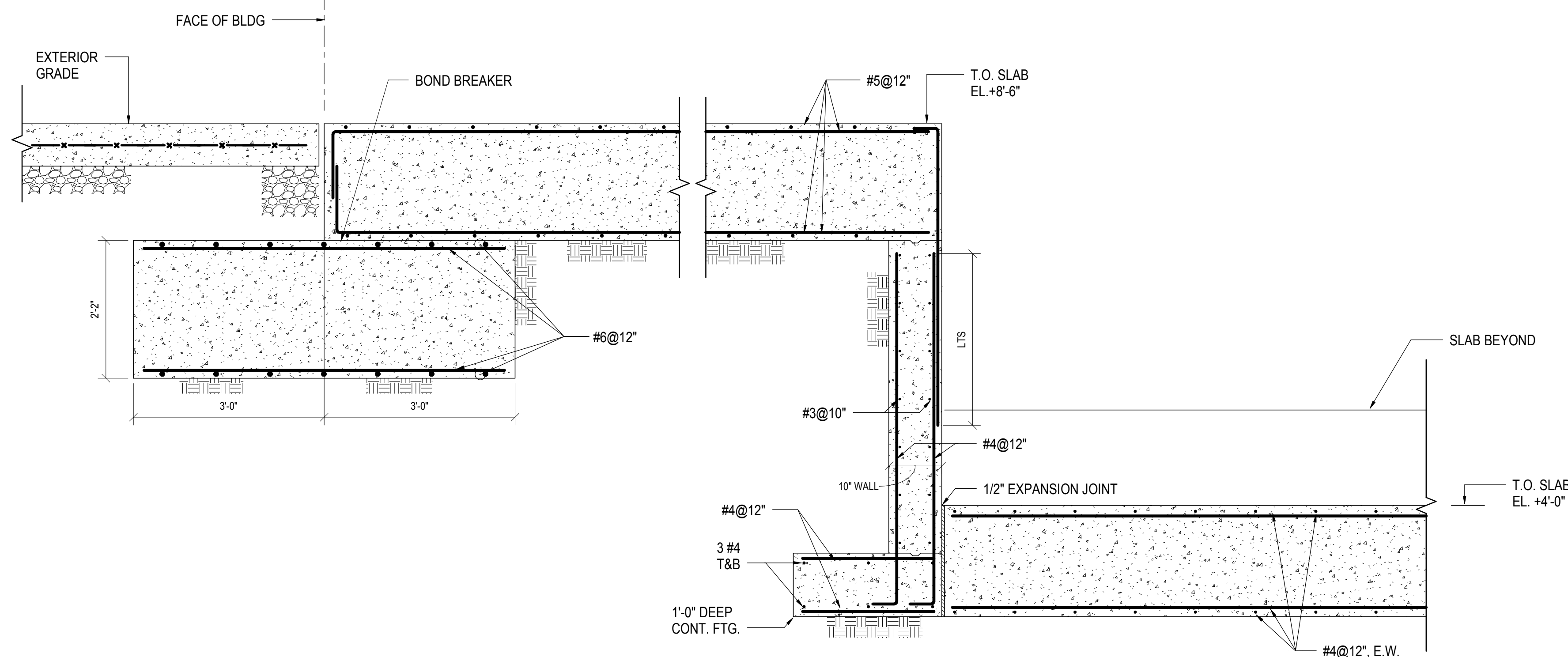


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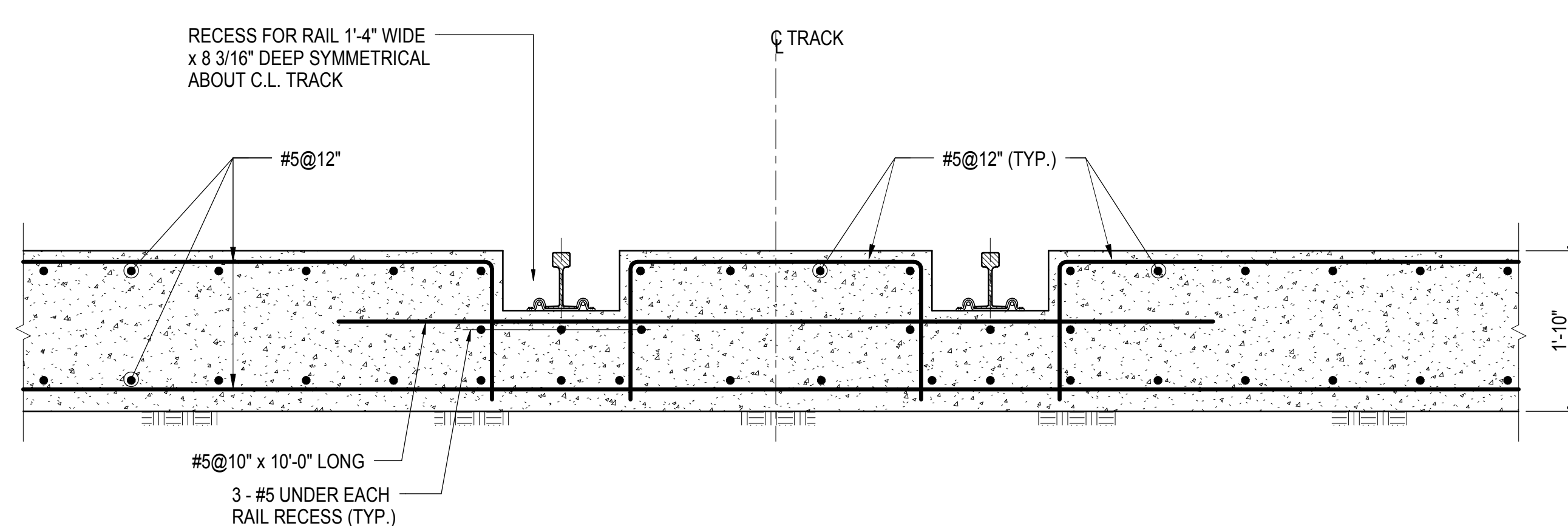




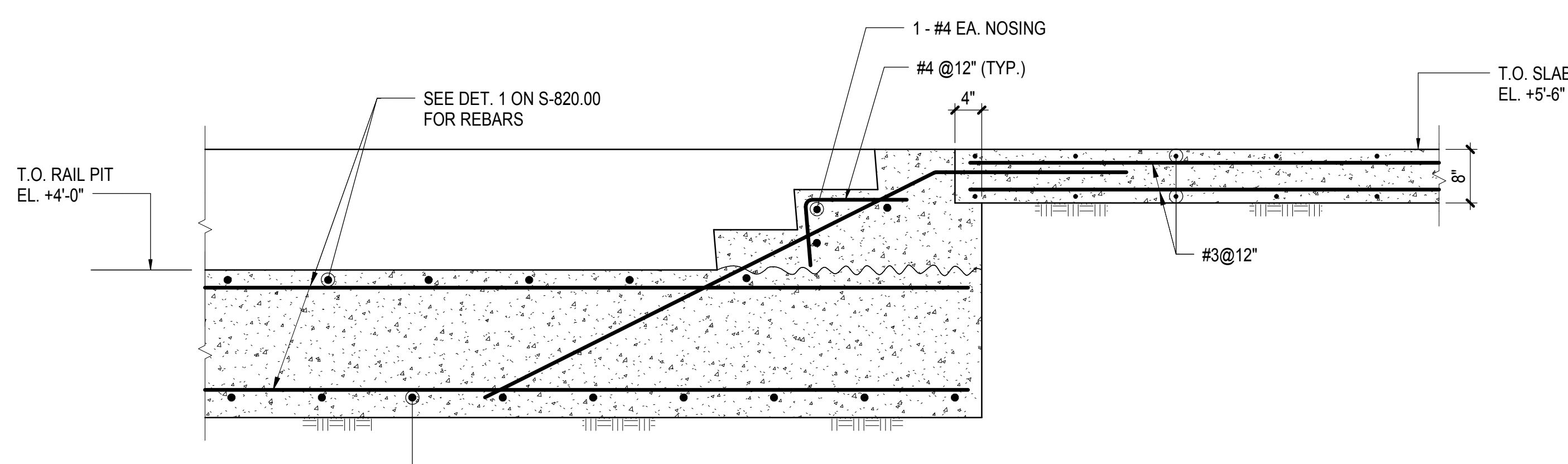
**1 NEW SLAB AT TRACK AREA**  
1/2" = 1'-0"



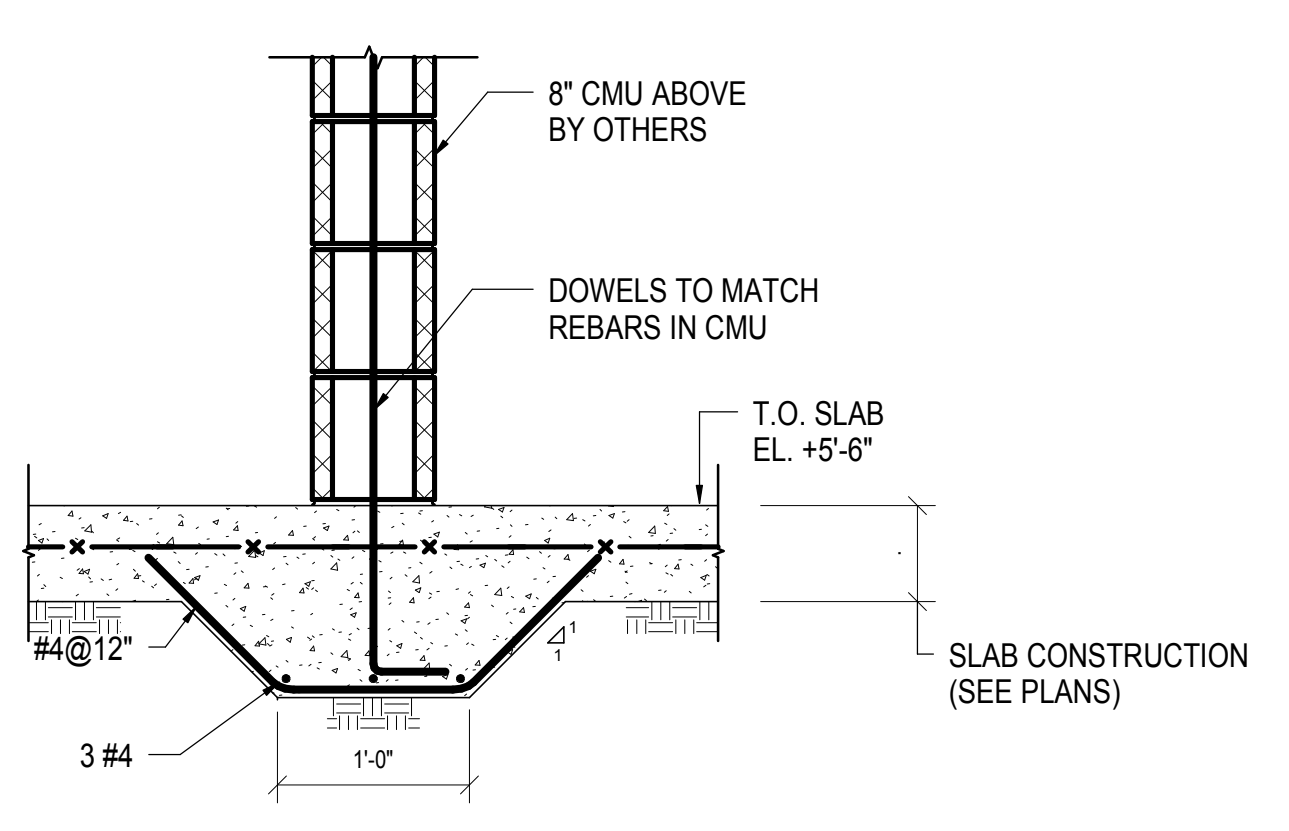
**2 STEP SECTION @ MOE TRACK ENTRANCE**  
3/4" = 1'-0"



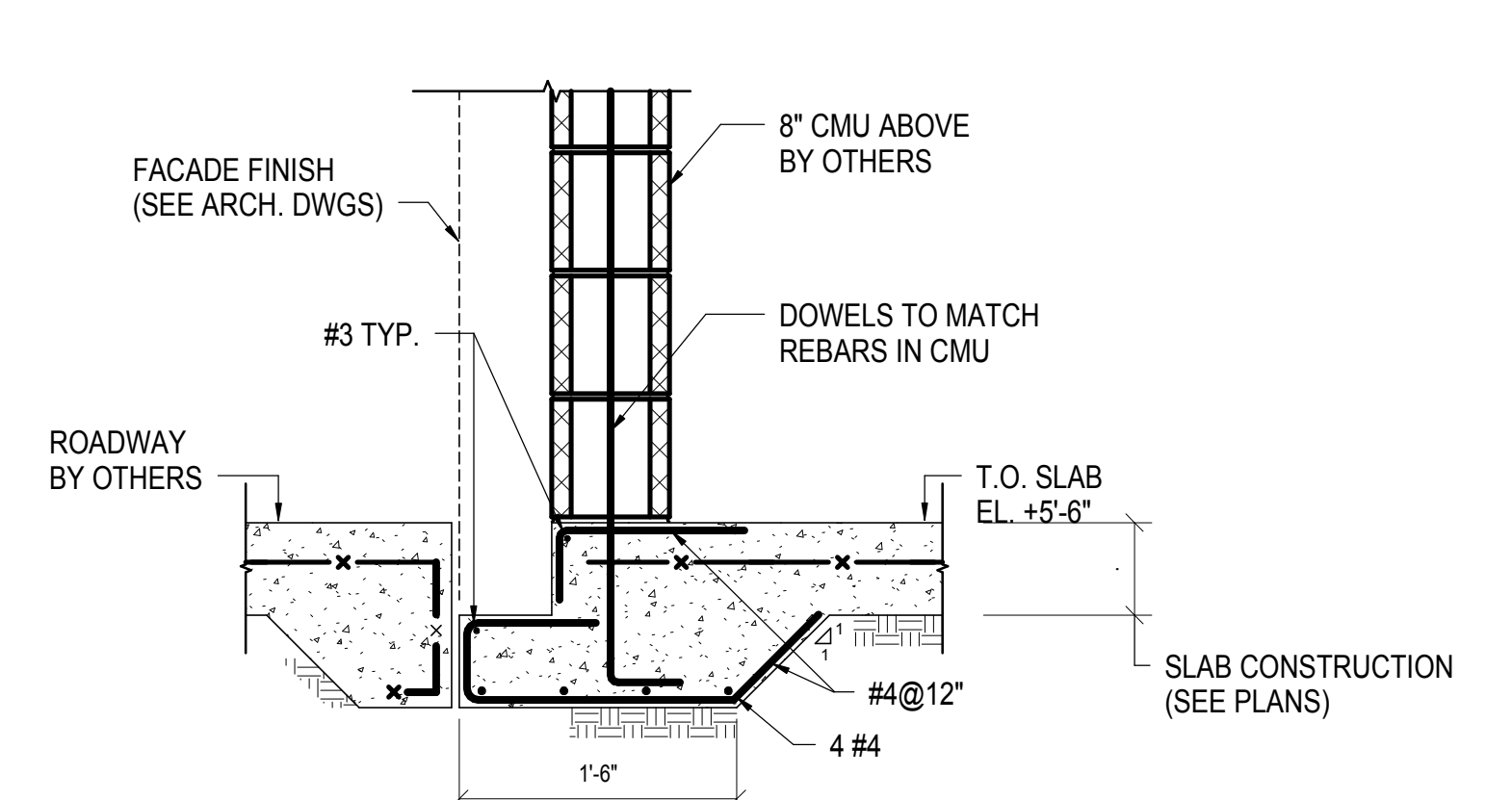
**3 SECTION @ RECESSED RAIL**  
3/4" = 1'-0"



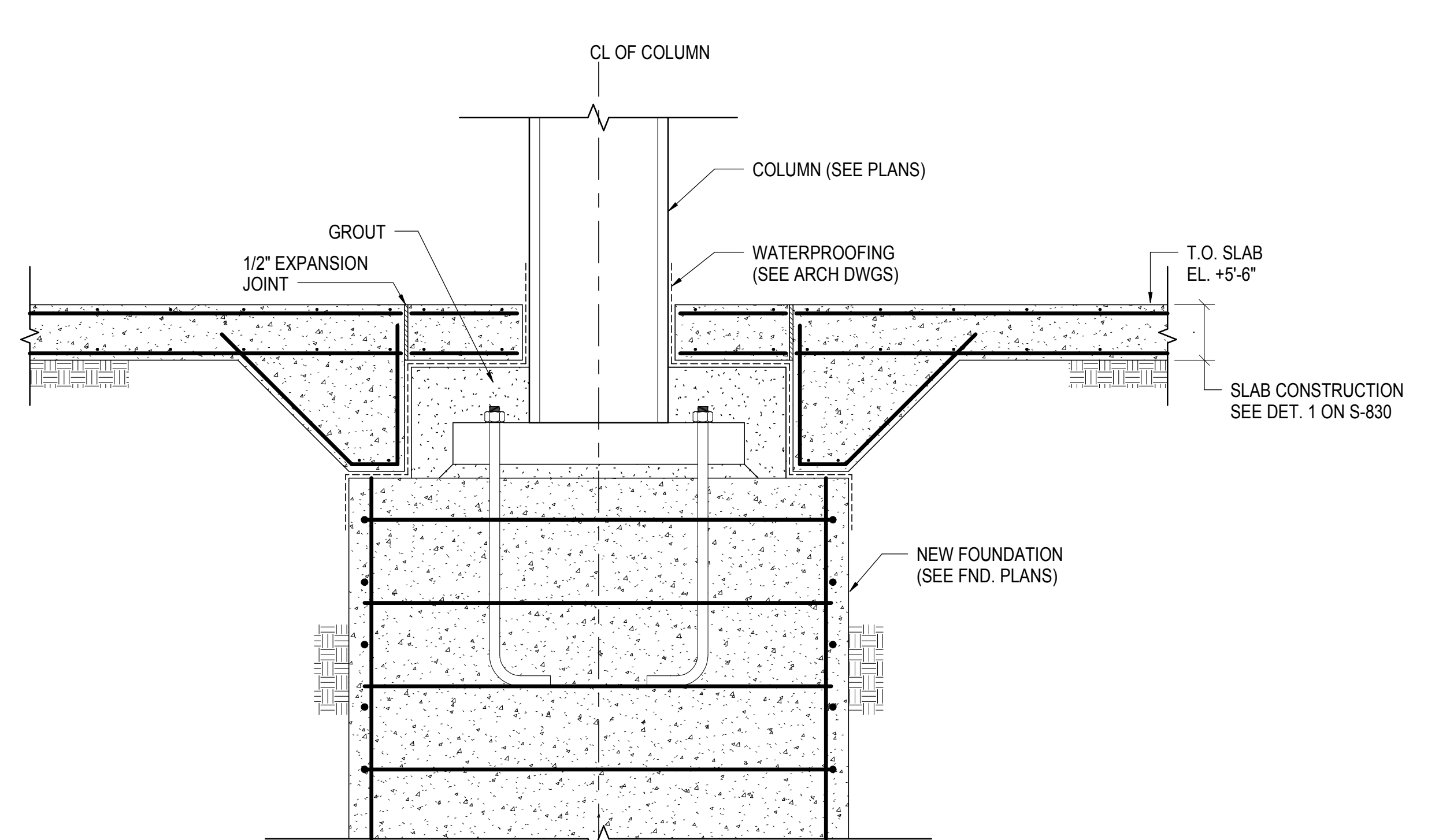
**4 STEP SECTION @ RAIL TRENCH**  
3/4" = 1'-0"



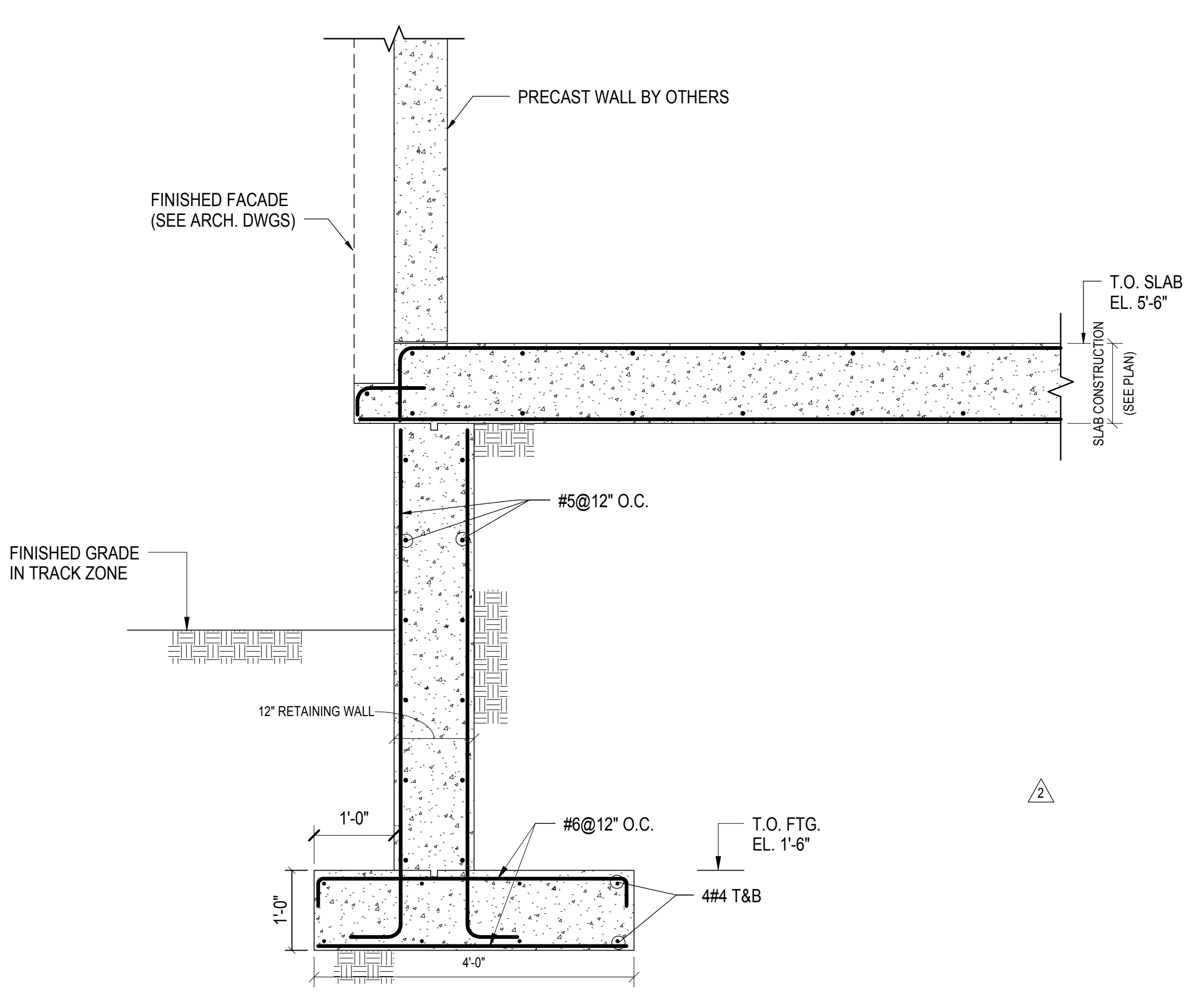
**5 CONCRETE HAUNCH @ INTERIOR CMU WALL**  
1" = 1'-0"



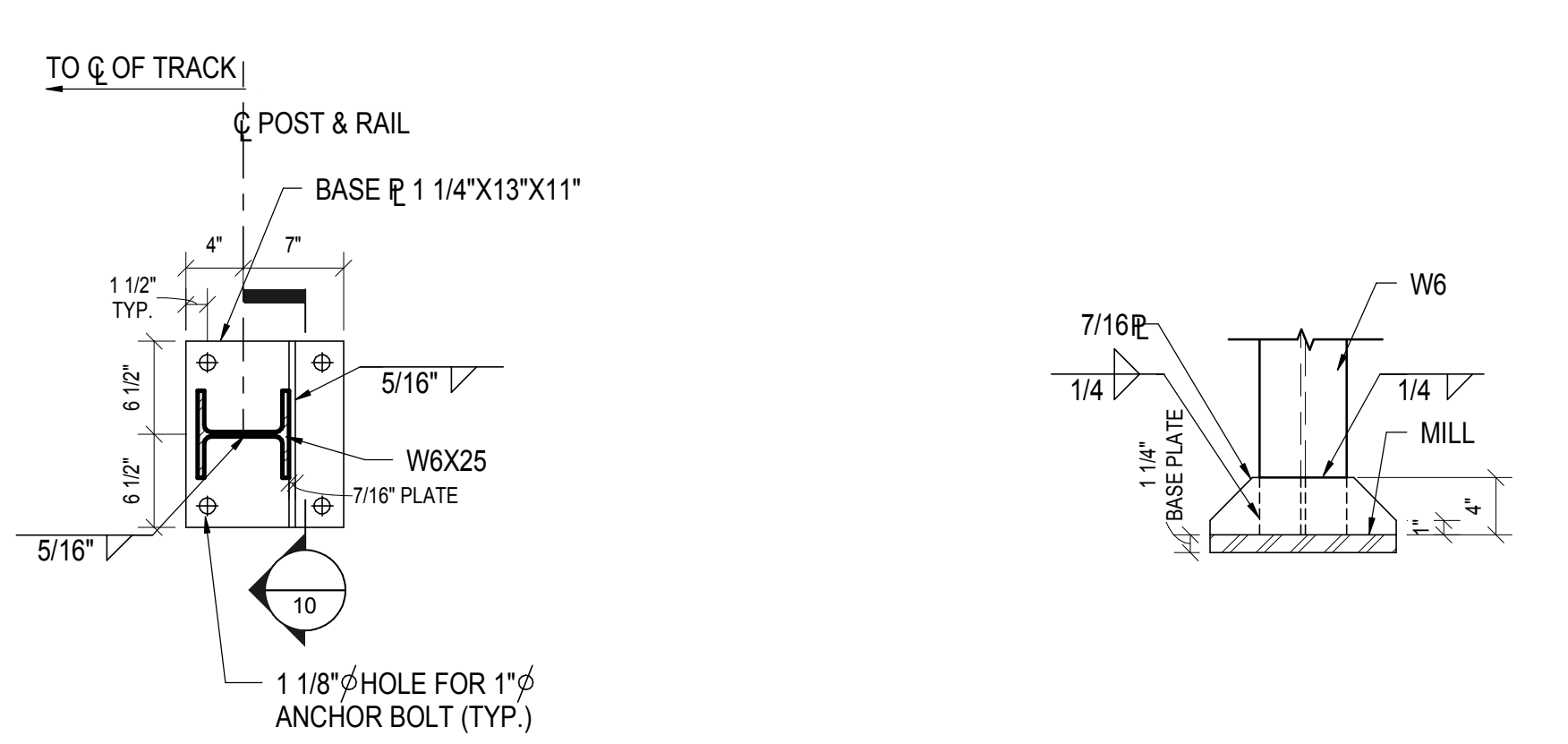
**6 CONCRETE HAUNCH @ EXTERIOR CMU**  
1" = 1'-0"



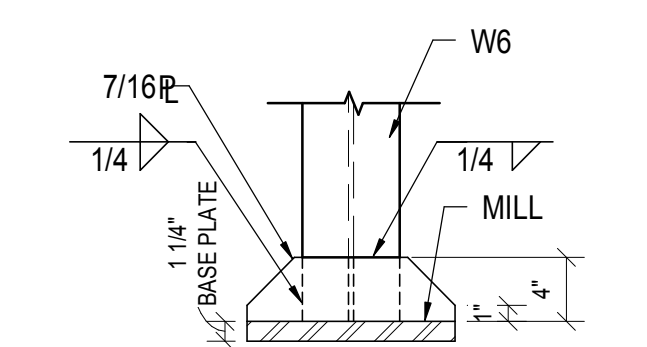
**7 NEW SLAB @ COLUMN SUPPORTED BY PIER**  
3/4" = 1'-0"



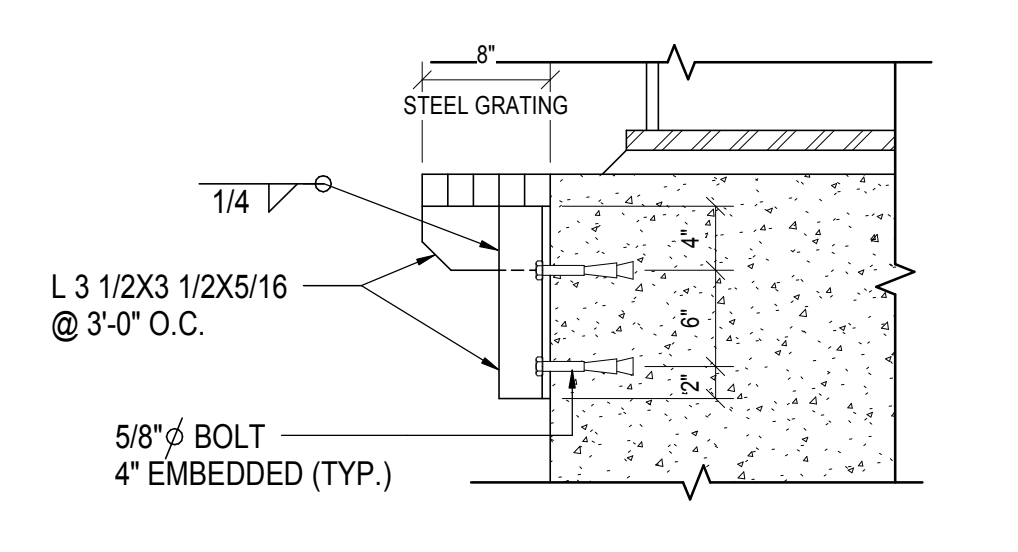
**8 CANTILEVER SLAB NEAR TRACK ZONE**  
3/4" = 1'-0"



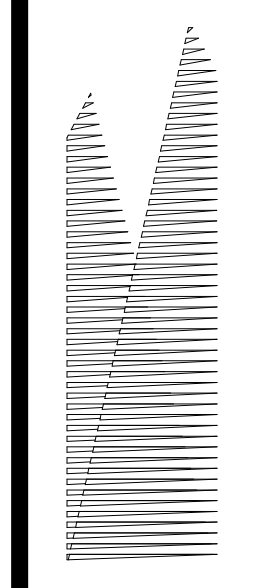
**9 BASE CONNECTION OF RAIL POST**  
1" = 1'-0"



**10 SECTION @ RAIL POST**  
1" = 1'-0"



**11 EDGE OF RAIL TRENCH**  
1" = 1'-0"



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60 Columbus Circle  
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NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
Mid - PLATFORM SUBMISSION	11/22/2013
2. DRG. PHASE 1 STRUCTURAL UPDATE	11/17/2013
LIRR - 90% M.O.E. SUBMISSION	10/4/2013
NYC DOB FILING	10/4/2013
3. DRG. PHASE 1 STRUCTURE UPDATE	9/29/2013
LIRR - 90% SUBMISSION	8/19/2013
LIRR - 60% M.O.E. SUBMISSION	7/12/2013
Rev. Description	Date

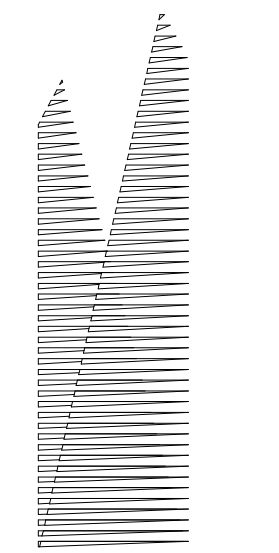
Rev. Plan

Date: 07/12/13  
Project No: N11330.00  
Title: Author  
Issue Number: Author

**HYE -PL -S-850.00**  
MOE BUILDBACK  
SECTIONS AND  
DETAILS

Drawing Number: /B/SC/05 Drawing Number  
**S-850.00**  
SHEET 198 OF 201





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NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
Model PLATFORM SUBMISSION	11/22/2013
2. DRG PHASE 1 STRUCTURE UPDATE	11/1/2013
LIRR - 90% M.O.E. SUBMISSION	10/4/2013
NYC DOB FILING	10/4/2013
3. DRG PHASE 1 STRUCTURE UPDATE	9/20/2013
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LIRR - 60% M.O.E. SUBMISSION	7/12/2013
Rev	Description

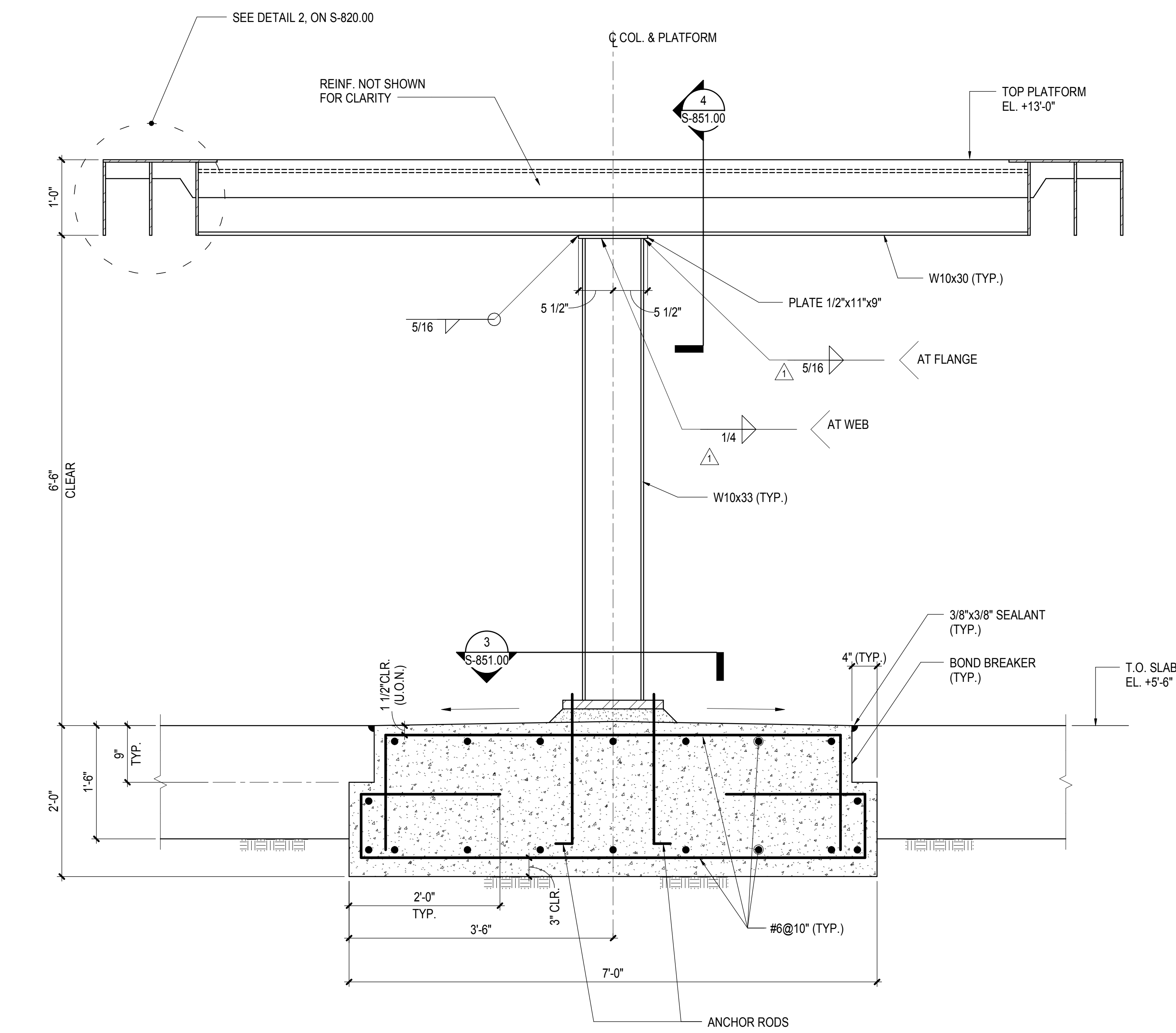
Rev Plot

Date: 07/12/13  
Project No: N11330.00  
Drawing No: Author  
Sheet Number

**HYE-PL-S-851.00**  
MOE BUILDBACK  
SECTIONS AND  
DETAILS

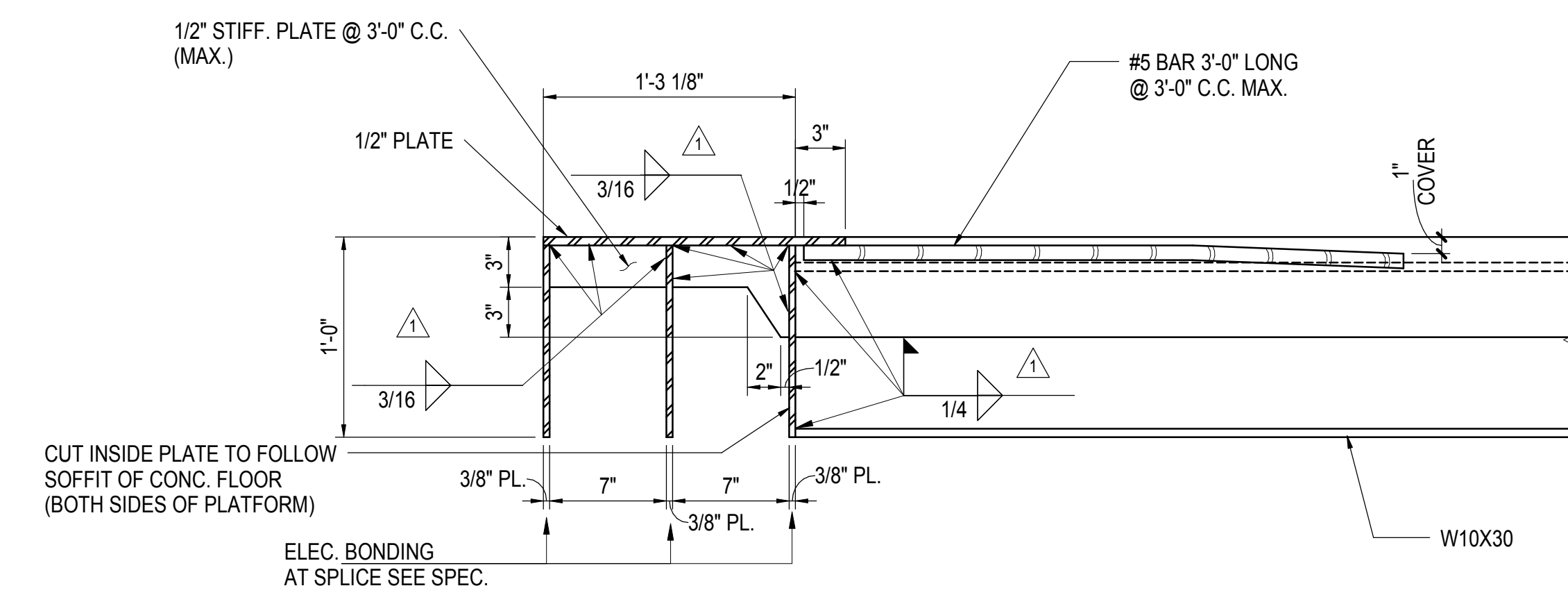
Drawing Number / Revision Drawing Number  
**S-851.00**

SHEET 199 OF 201



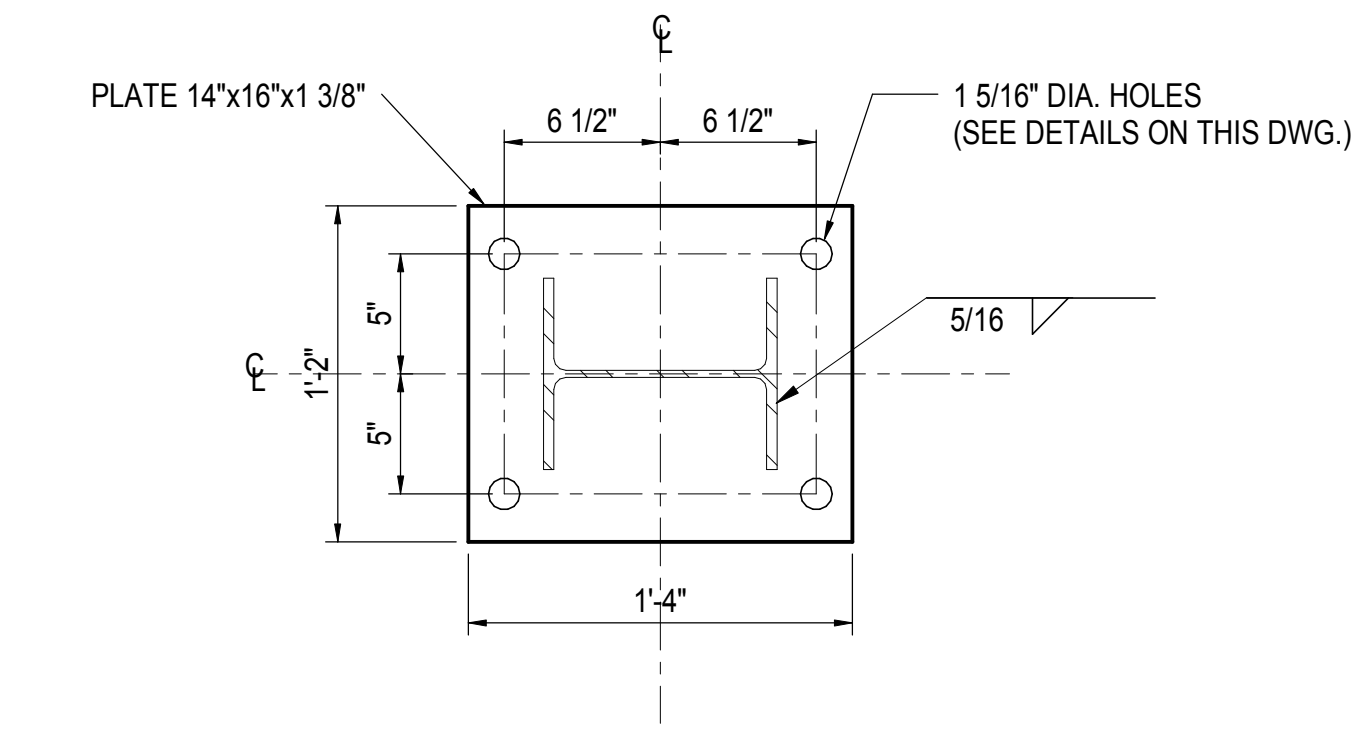
**1 TYPICAL M.O.E. SECTION PLATFORM**

1" = 1'-0"



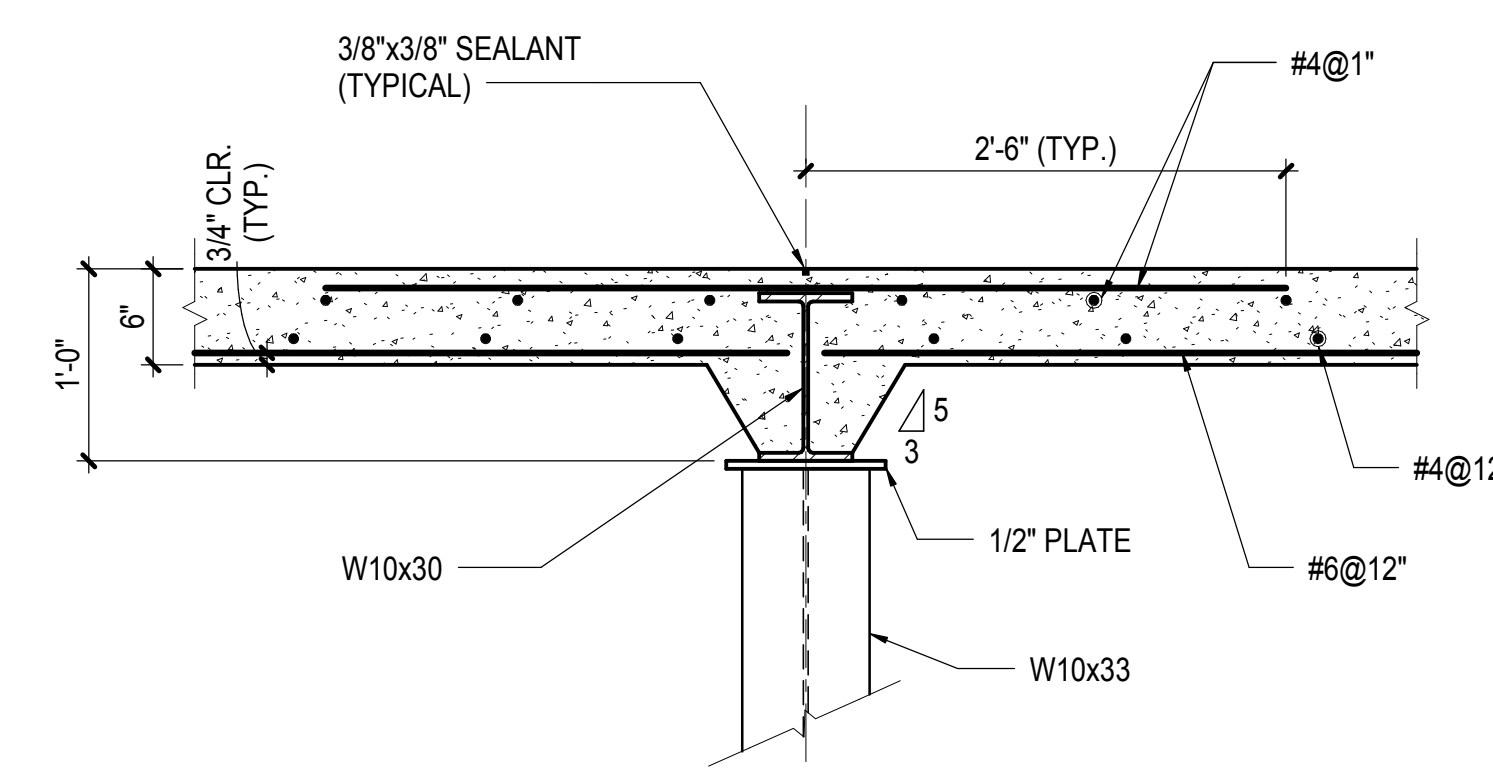
**2 TYPICAL EDGE OF PLATFORM**

1 1/2" = 1'-0"



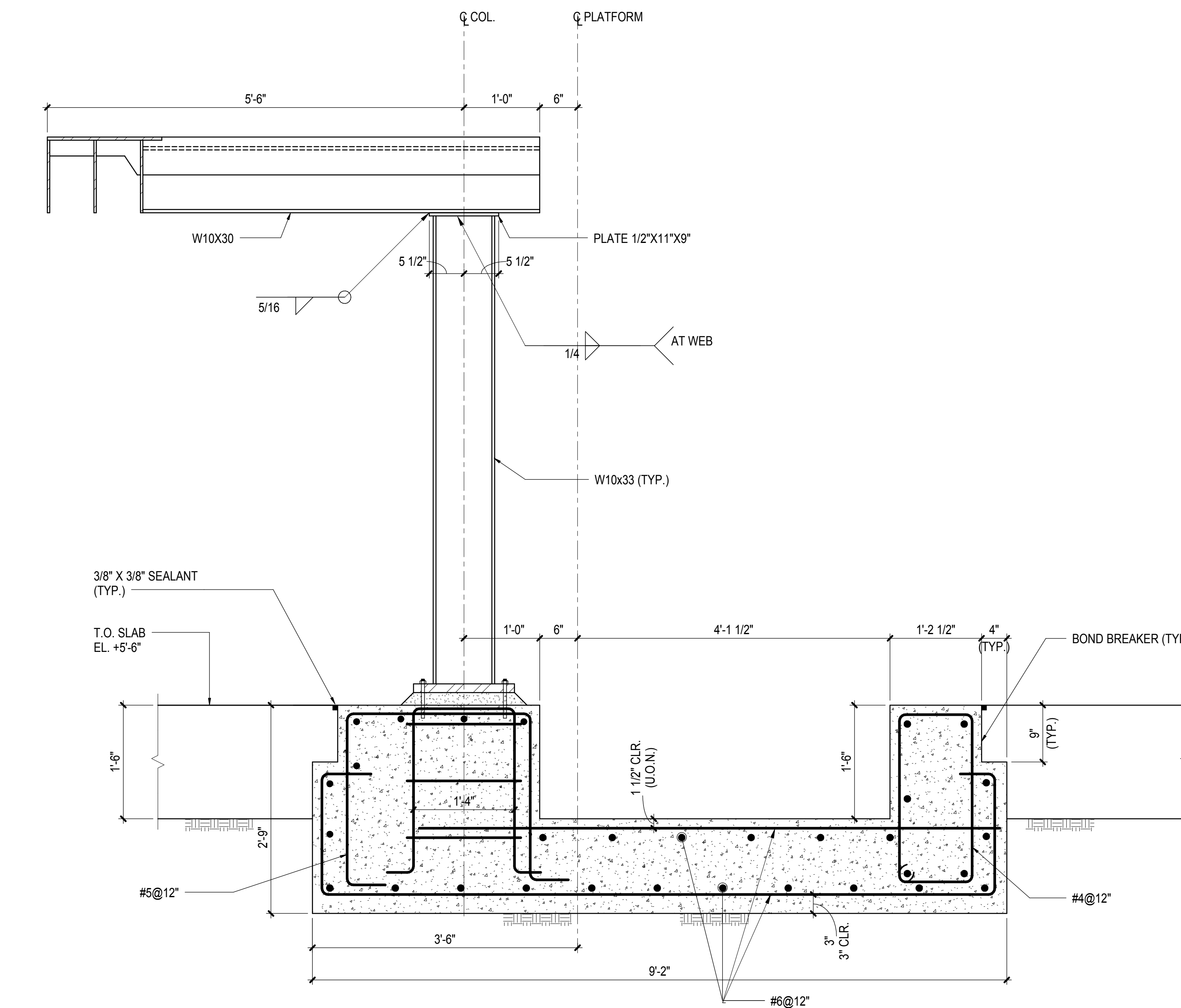
**3 TYPICAL BASE PEDESTAL DETAIL**

1 1/2" = 1'-0"



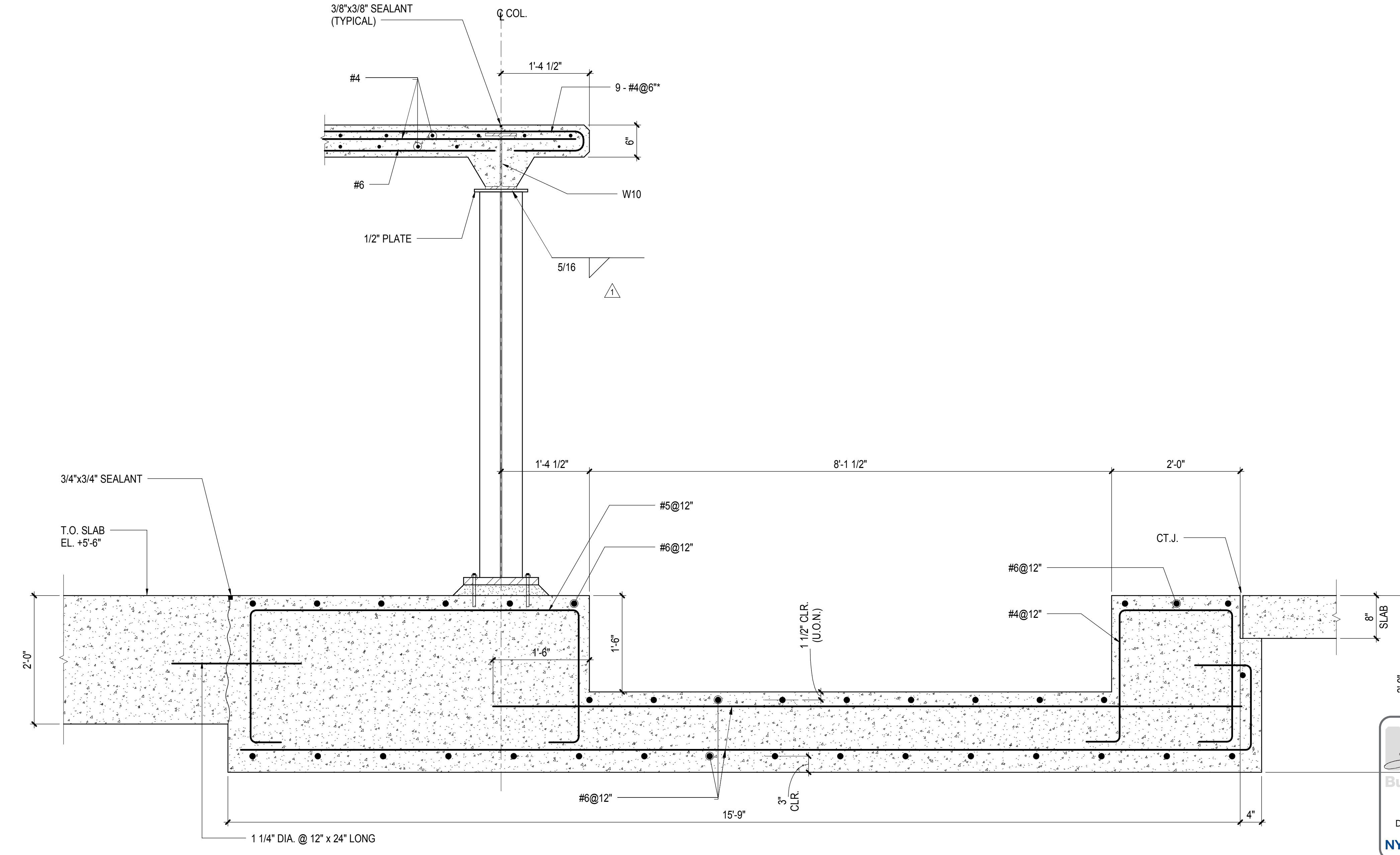
**4 TYPICAL M.O.E. PLATFORM SLAB CONSTRUCTION**

1" = 1'-0"



**5 SECTION**

1" = 1'-0"



**6 SECTION**

1" = 1'-0"

Damian Titus  
Buildings  
APPROVED  
Under Directive 3 of 1975  
Date: 05/14/2014  
NYC Development Hub

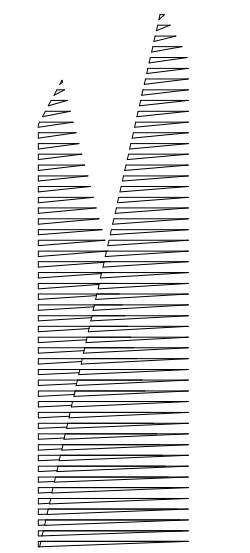


Drawing Number / Revision Drawing Number

SHEET 199 OF 201

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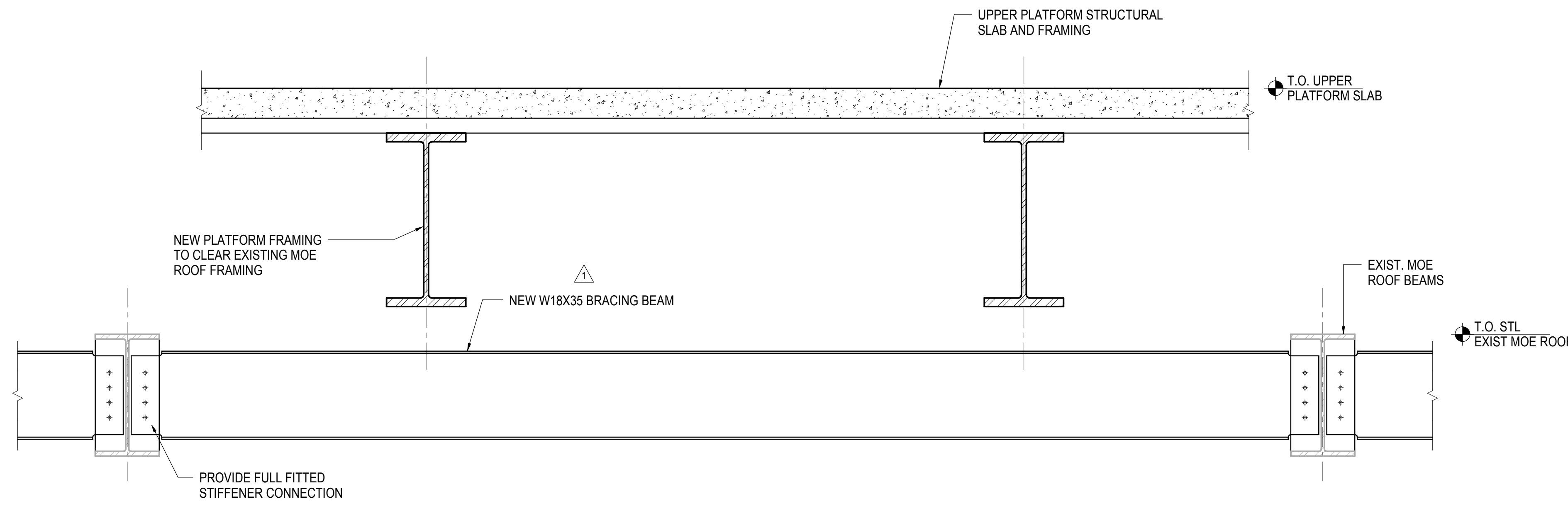
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Structural Engineer  
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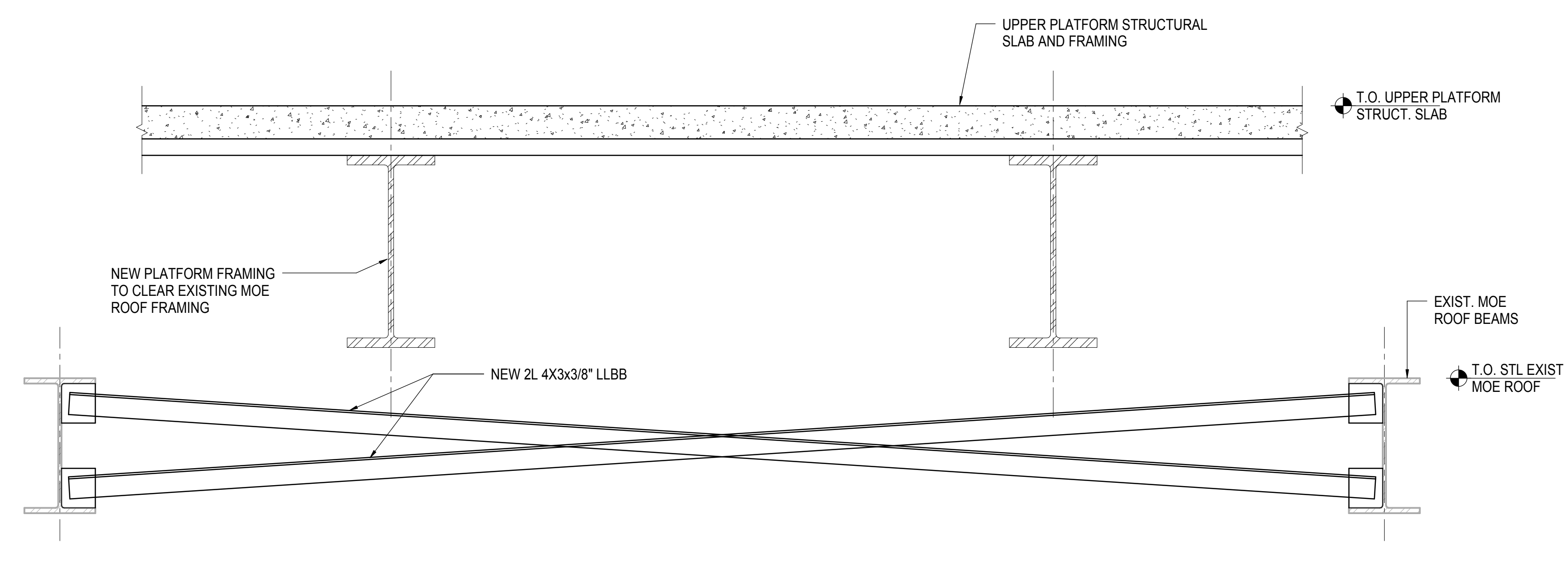
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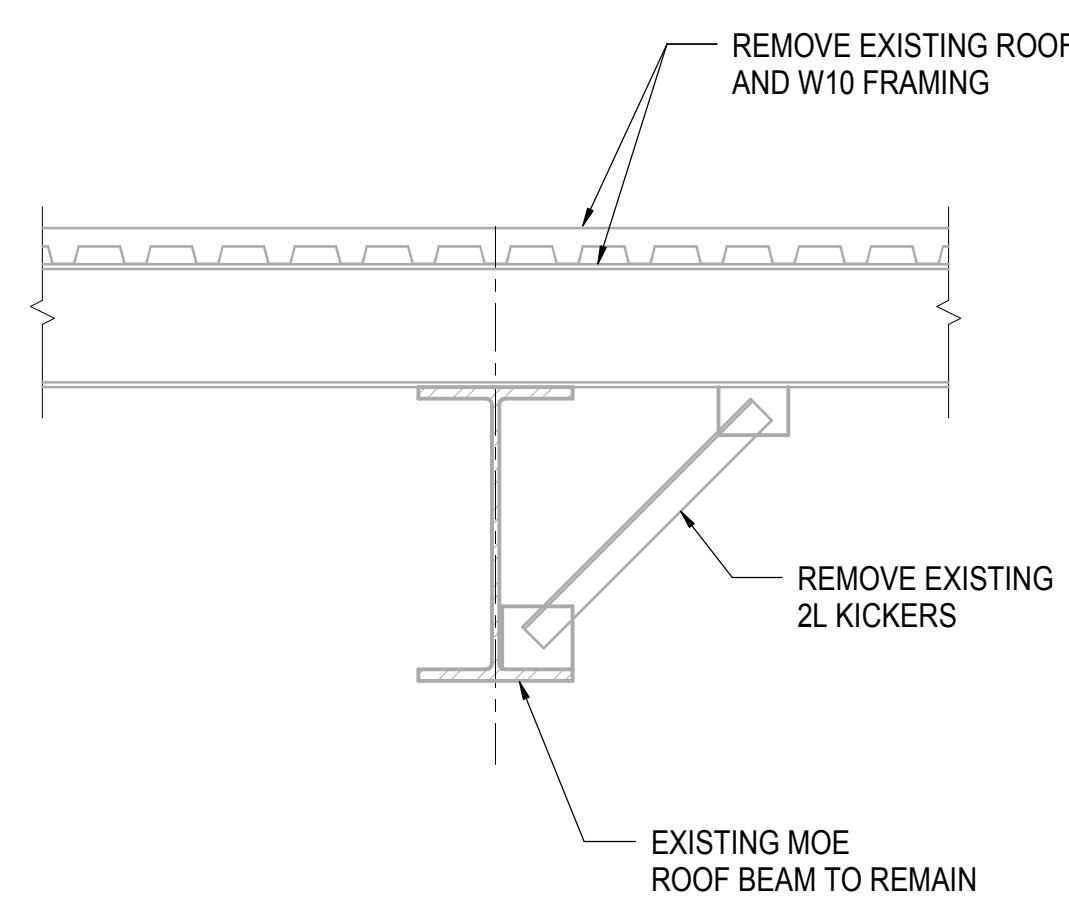
LIRR Substation  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



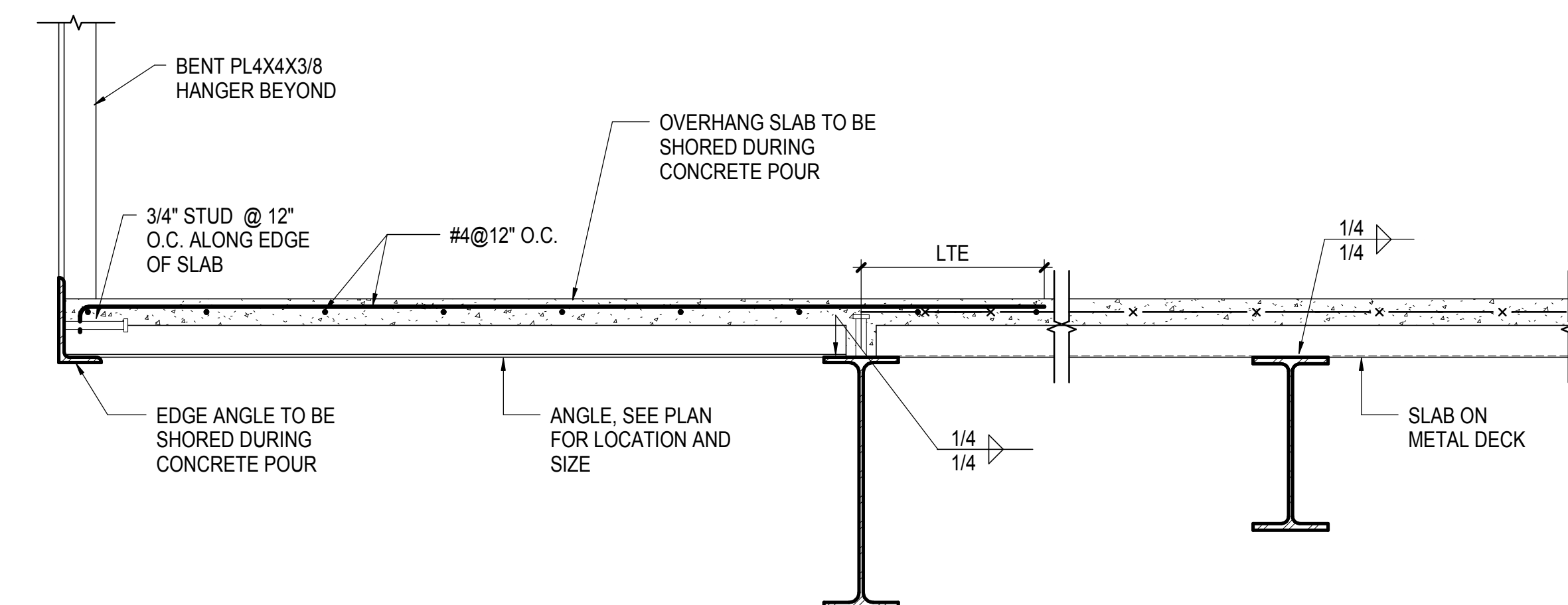
**1 BRACING DETAIL AT EXISTING MOE HIGH ROOF**  
3/4" = 1'-0"



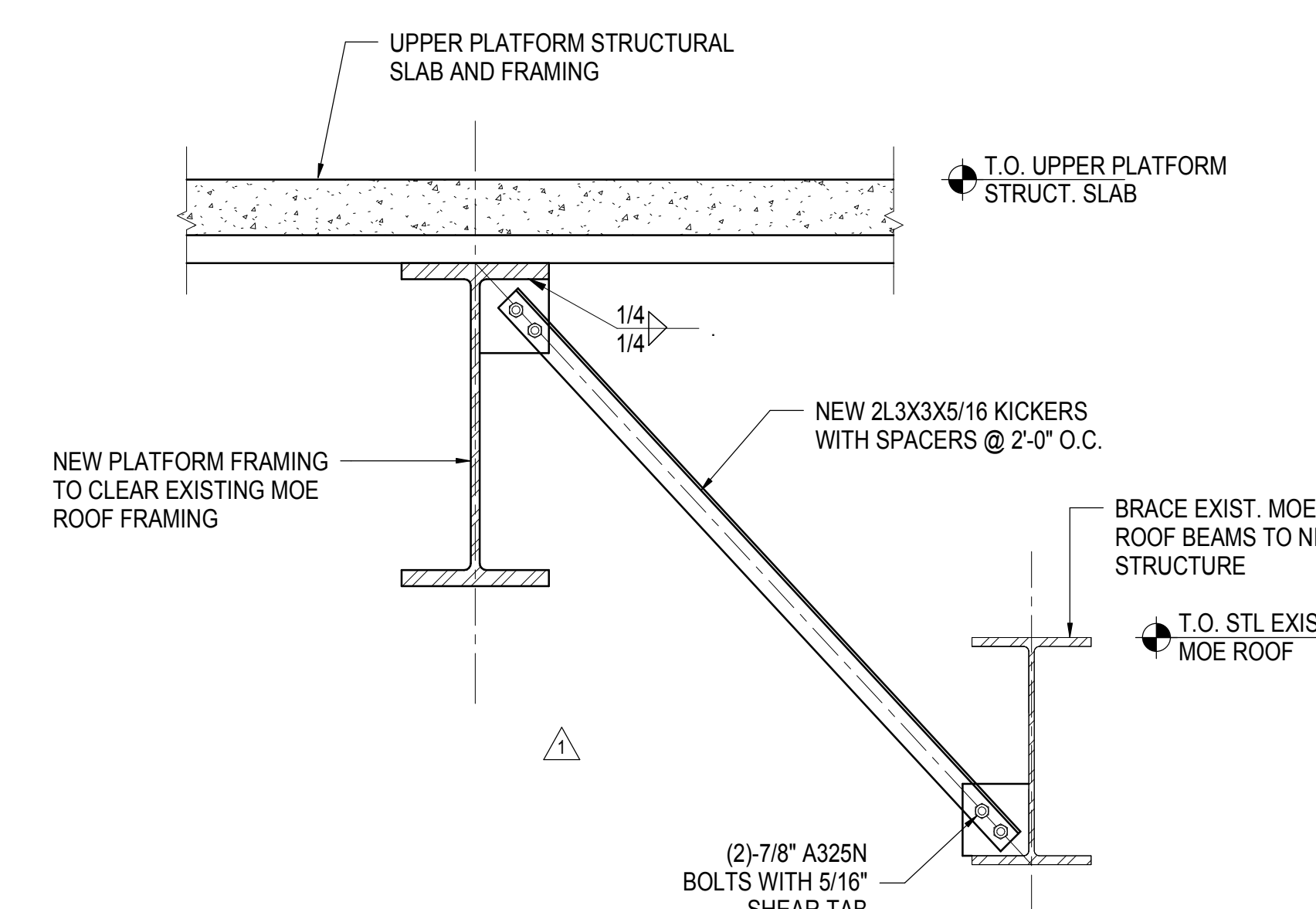
**2 ALTERNATE BRACING DETAIL AT EXISTING MOE HIGH ROOF**  
3/4" = 1'-0"



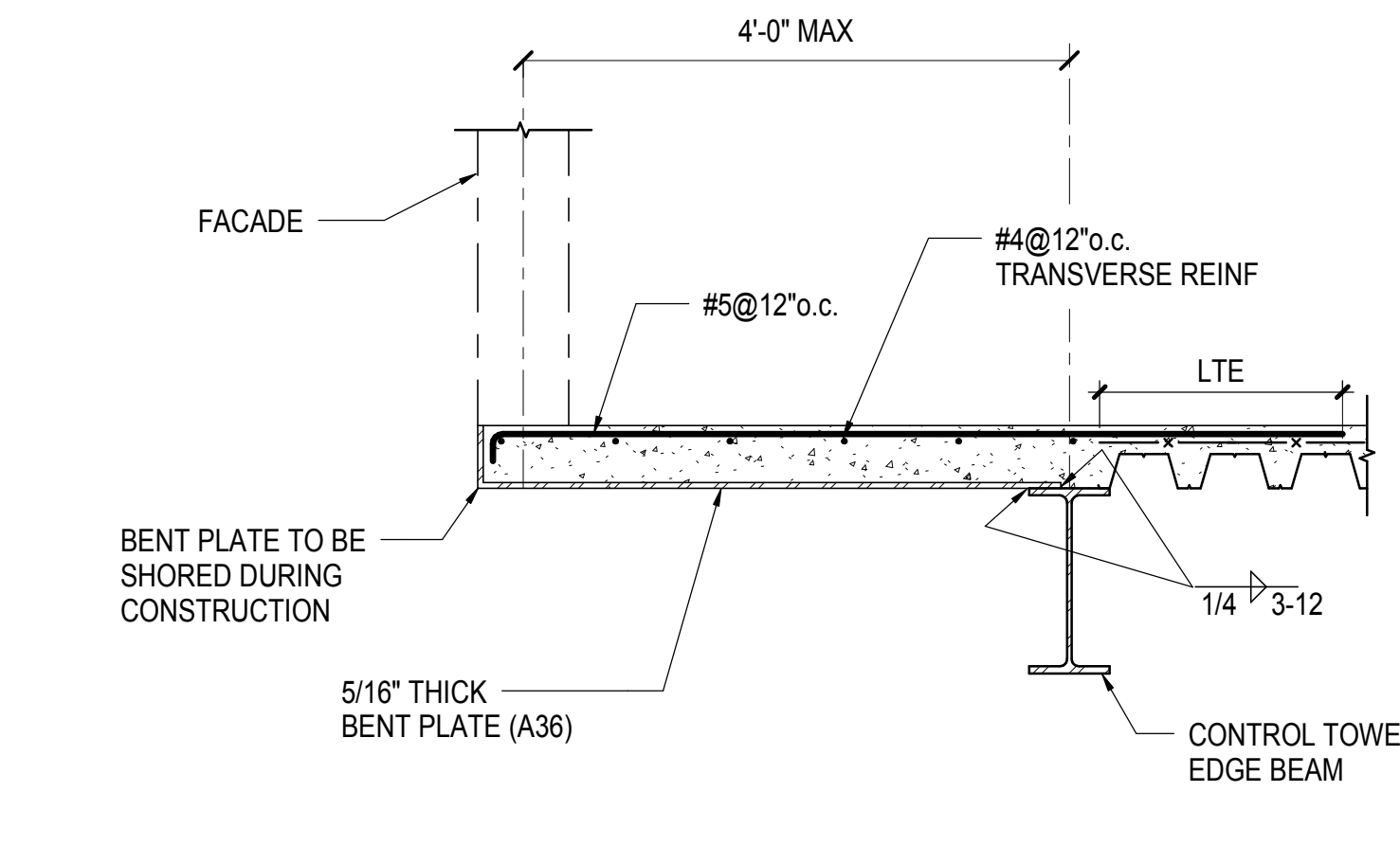
**3 SECTION AT EXISTING MOE HIGH ROOF**  
3/4" = 1'-0"



**4 SECTION @ CONTROL TOWER OVERHANG SLAB**  
1" = 1'-0"



**5 ALTERNATE BRACING DETAIL AT EXISTING MOE HIGH ROOF**  
3/4" = 1'-0"



**6 TYPICAL EDGE OF SLAB AT CONTROL TOWER**  
3/4" = 1'-0"

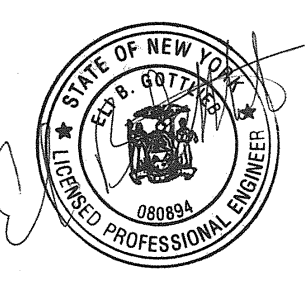
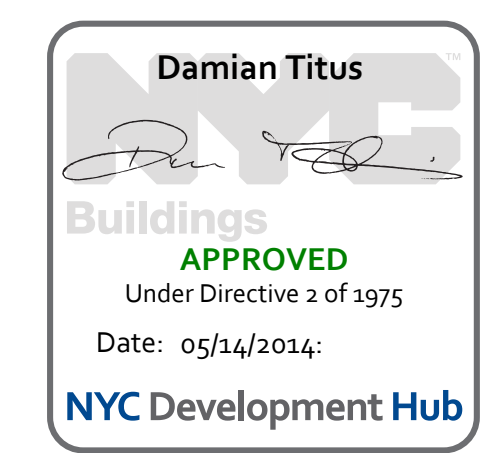
NYC DOB FILING	12/4/2013
L.I.R.R. - PRE-FINAL 100%	11/22/2013
Mod - PLATFORM SUBMISSION	
2. DRG PHASE 1 STRUCTURAL UPDATE	11/1/2013
LIRR - 90% M.O.E. SUBMISSION	10/4/2013
NYC DOB FILING	10/4/2013
3. DRG PHASE 1 STRUCTURE UPDATE	9/20/2013
LIRR - 90% SUBMISSION	8/09/2013
LIRR - 60% M.O.E. SUBMISSION	7/12/2013
Rev	Description

Rev. Plan

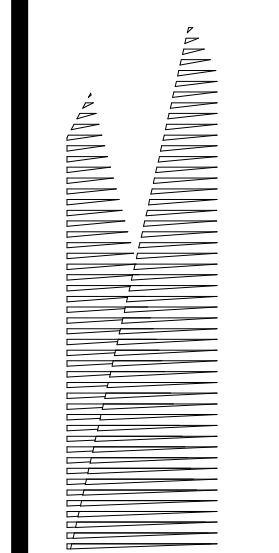
Date	07/12/13
Project No	N11330.00
Revision No	Author
Sheet Number	

**HYE-PL-S-852.00**  
Drawing Title  
**MOE BUILDBACK  
SECTIONS AND  
DETAILS**

Drawing Number / B/S/C/S Drawing Number  
**S-852.00**  
SHEET 200 OF 201







*Client*  
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*Construction Manager*  
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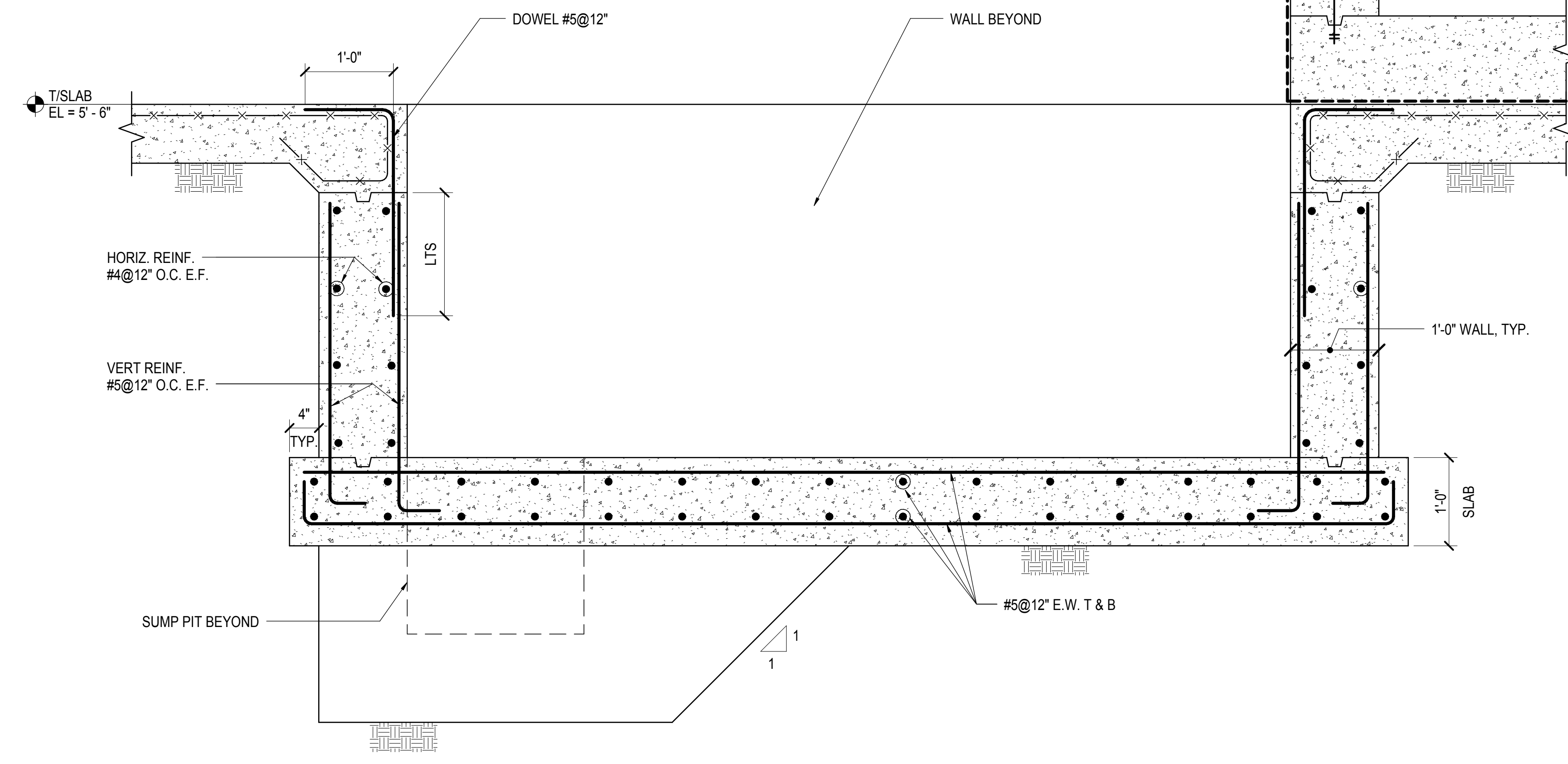
*Architect*  
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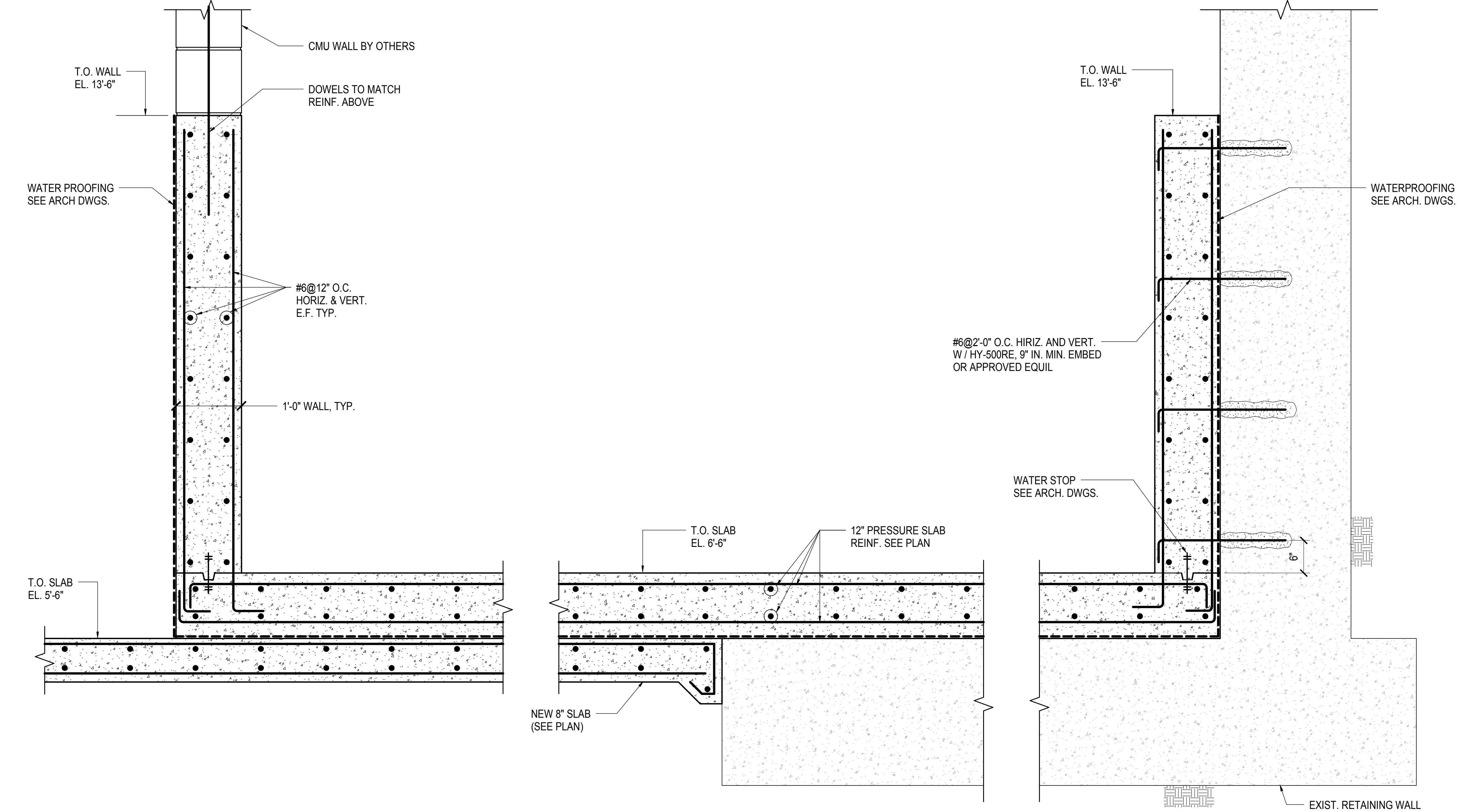
*Civil, Mechanical, Electrical, Plumbing,  
Fire Alarm, Fire Protection, Security  
Personnel Transportation Group*  
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*LIRR Ventilation*  
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Tel: 212.896.3000

*LIRR Substation*  
AECOM  
605 Third Avenue  
New York, NY 10158  
Tel: 212.973.9200 Fax: 212.682.6172



**1 ELEVATOR PIT AT M.O.E.**  
T=1'-0"



**2 PRESSURE SLAB DETAIL**  
T=1'-0"

NYC DOB FILING	12/4/2013
L.I.R.R. PRE-FINAL 100%	11/22/2013
M&E - PLATFORM SUBMISSION	
D-42 PHASE 1 STRUCTURAL UPDATE	11/1/2013

Rev. Plot

Date	11/01/13
Project No.	N11330.00
Drawn By	Author
Sheet Number	

**HYE -PL -S-853.00**  
Drawing Title  
**MOE BUILDBACK  
SECTION AND DETAILS**

Drawing Number / B/S/C/S Drawing Number  
**S-853.00**  
SHEET 201 OF 201

