

FILE NAME: I:\12018\102-PLUMBING\12018-001.dwg SAVED ON: 11/11/2015 5:33 PM PLOTTED ON: 11/11/2015 5:33 PM PLOTTED BY: MULLINA, ISRAEL

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KEY OF SYMBOLS

NOTE: THE KEY OF SYMBOLS INDICATED IS FOR CONVENIENCE ONLY AND ITEMS INDICATED ARE NOT NECESSARILY WITHIN THE SCOPE OF THE WORK.

	ST	STORM PIPING	A.B.D.	AUTOMATIC BALL DRIP
	SAN	SOIL OR WASTE PIPING (S) (W)	A.D.	ACCESS DOOR
	L	LEADER (L) (LDR)	A. DR.	AREA DRAIN
	IW	INDIRECT WASTE	B.T.	BATH TUB
		PIPING INSULATED OVER HEAT TRACING	C.D.	CANOPY DRAIN
		VENT PIPING	C.F.H.	CUBIC FEET PER HOUR
	IR	IRRIGATION PIPING	C.F.M.	CUBIC FEET PER MINUTE
		COLD WATER PIPING (C.W.)	C.F.S.	CUBIC FEET PER SECOND
		HOT WATER PIPING (H.W.)	CLG.	CEILING
		HOT WATER CIRCULATING PIPING (H.W.C.)	C.O.	CLEANOUT
	G	GAS PIPING (G)	C.O.D.P.	CLEAN OUT DECK PLATE
	F	FIRE STANDPIPE PIPING (F) (FSP)	C.V.	CHECK VALVE
	PD	PUMP DISCHARGE PIPING (P.D.)	C.V.B.	CHECK VALVE BOX
	SP	SPRINKLER PIPING (SP.)	D.I.	DROP INLET
	D	SPRINKLER DRY PIPING (D)	D.F.	DRINKING FOUNTAIN
		GATE VALVE (G.V.)	DN.	DOWN
		LOCKSHIELD VALVE (GLOBE VALVE)	DW.	DISHWASHER
		PLUG COCK	EL.	ELEVATION
		CHECK VALVE (C.V.)	E.W.C.	ELECTRIC WATER COOLER
		HOSE BIBB (H.B.) SILL COCK (S.C.)	F.A.I.	FRESH AIR INLET
		VACUUM BREAKER (V.B.)	F.D.	FLOOR DRAIN
		PRESSURE RELIEF VALVE PRESS. & TEMP. RELIEF VALVE	FL. DR.	FLOOR
		PRESSURE REGULATING VALVE	F.O.	FLOOR OUTLET
		STRAINER	F.U.	FIXTURE UNITS
		"P" TRAP FOR LAV., SINK, ETC.	FUN. DR.	FUNNEL DRAIN
		CLEANOUT DECK PLATE (C.O.D.P.)	F.V.	FLUSH VALVE FLUSHOMETER
		SHOCK ABSORBER	G.V.	GATE VALVE
		ANCHOR	H.C.	HUNG CEILING
		GUIDE	H.R.	HOSE RACK
		PRESSURE GAUGE	INV.	INVERT
		THERMOMETER	LAV.	LAVATORY
		TEMPERATURE REGULATOR	MH.	MANHOLE
		WALL HYDRANT (W.H.)	M.S.	MOP SINK
		YARD HYDRANT (Y.H.) (D.H.)	N.C.F.	NON CONTROLLED FLOW
		HWATT	N.I.C.	NOT IN CONTRACT
		UNION CONNECTION	O.S.&Y.	OUTSIDE SCREW & YOKE
		EXPANSION JOINT	P.C.	PLUG COCK
		AUTOMATIC AIR VENT VALVE	P.O.	PLUGGED OUTLET
		STACK & RISER SYMBOLS	R.P.B.	REDUCED PRESSURE BACKFLOW PREVENTER
		SOIL WASTE & VENT STACKS & WATER RISERS	R.D.	ROOF DRAIN
		STORM LEADER	R.T.	RUNNING TRAP
		GAS RISER	R.C.V.	RISER CONTROL VALVE
		RETAIL GAS RISER	S.P.O.	SOIL PLUGGED OUTLET
		FIRE STANDPIPE RISER	S.H.	SHOWER HEAD
	(XXX #)	STORM DRAINAGE AREA	SH.-SHWR.	SHOWER
	[XXX #]	VERTICAL WALL ALLOWANCE STORM DRAINAGE AREA	SK.	SINK
	(XXX GPM)	CONTROL FLOW DRAINAGE DRAIN DISCHARGE	S.S.	SERVICE SINK
	WTS	WATER TIGHT SLEEVE	S.E.	SEWAGE EJECTOR
			T.D.	TERRACE DRAIN
			T.E.	TERRACE ELEVATION
			T.S.	TAMPER SWITCH
			UR.	URINAL
			U.O.S.W.	UNDER ANOTHER SECTION OF THE WORK
			VAL. O. V.O.	VALVED OUTLET
			V.T.R.	VENT THRU ROOF
			V.P.O.	VENT PLUGGED OUTLET
			VWA	VERTICAL WALL ALLOWANCE
			W/D	WASHER/DRYER
			W.C.	WATER CLOSET

PLUMBING INSTALLATION CRITERIA

EACH BIDDER SHALL VISIT THE SITE AND BECOME INFORMED AS TO THE CONDITION OF THE PREMISES AND THE EXTENT AND CHARACTER OF WORK REQUIRED. NO ADDITIONAL COMPENSATION WILL BE APPROVED DUE TO FIELD CONDITIONS.

1. PROVIDE ROUGH-IN AND FINAL CONNECTIONS FOR ALL PLUMBING FIXTURES INCLUDING WASTE, VENTS, HOT AND COLD WATER, AND PROVIDE ALL PLUMBING WORK NECESSARY TO MAKE THE BUILDING ENTIRELY OPERABLE AND ACCEPTABLE TO LOCAL HEALTH AND BUILDING OFFICIALS.
2. PLUMBING CONTRACTOR SHALL LOCATE ALL PIPING AND PLUMBING ROUGH-IN FOR PLUMBING FIXTURES IN ACCORDANCE WITH ROUGH-IN DRAWINGS PROVIDED BY EQUIPMENT MANUFACTURERS.
3. ALL VISIBLY EXPOSED PIPE TO EQUIPMENT SHALL BE CHROME PLATED BRASS.
4. PROVIDE SHUT-OFF VALVES FOR EACH PLUMBING FIXTURE AND PIECE OF EQUIPMENT AND EACH RESIDENTIAL UNIT ENTRANCE.
5. PROVIDE TRAPS ON ALL WASTE PIPING FROM PLUMBING FIXTURES AND PIECE OF EQUIPMENT.
6. COORDINATE POSITION OF SLEEVES AND OPENINGS THROUGH FLOOR WITH THE GENERAL CONTRACTOR.
7. PROVIDE VACUUM BREAKERS AND CHECK VALVES FOR THE PLUMBING FIXTURES WHERE AND WHEN REQUIRED BY CODE.
8. ALL PIPING AND EQUIPMENT SHALL BE SUBSTANTIALLY SUPPORTED FROM THE BUILDING STRUCTURE.
 - A. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF HANGER RODS IN REQUIRED LOCATIONS, PROVIDE ADDITIONAL STEEL FRAMING AS REQUIRED AND APPROVED.
 - B. NO PLUMBING PIPING SHALL BE HUNG FROM THE PIPING OF OTHER TRADES OR DUCTWORK. HANGERS SHALL BE OF HEAVY CONSTRUCTION, SUITABLE FOR THE SIZE OF PIPE TO BE SUPPORTED.
9. PLUMBING FIXTURES TO BE APPROVED BY THE GENERAL CONTRACTOR AND INSTALLED BY THE PLUMBING CONTRACTOR.
10. ALL PLUMBING FIXTURES SPECIFIED BY THE ARCHITECT. SEE ARCHITECTURAL DRAWINGS, SPECIFICATIONS, DETAILS AND ELEVATIONS OF THE PANTRY, BATH, ETC. FOR REQUIRED PLUMBING CONNECTIONS.

NEW YORK CITY BUILDING DEPARTMENT PLUMBING NOTES

THE PLUMBING SYSTEMS (SANITARY, WASTE, VENT, WATER DISTRIBUTION AND GAS) AND ALL ASSOCIATED EQUIPMENT WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FULL REQUIREMENTS OF THE NEW YORK CITY 2008 PLUMBING CODE. COMPLIANCE WITH THE FULL PROVISIONS OF ALL NEW YORK CITY BUILDING AND PLUMBING CODE ACCESSIBILITY REQUIREMENTS AND PLUMBING FIXTURE FLOW REQUIREMENTS OF THE N.Y.C. 2008 PLUMBING CODE.

1. THE SANITARY SYSTEM SHALL BE PROVIDED IN FULL ACCORDANCE WITH THE GENERAL PROVISIONS OF SECTION PC301.
2. THE MATERIALS USED IN THE PLUMBING SYSTEMS WILL BE PROVIDED IN FULL ACCORDANCE WITH SECTIONS PC302 AND PC303.
3. EQUIPMENT HOOK-UP AND THE JOINING WILL BE FULL COMPLIANCE WITH SECTIONS PC605 AND PC705.
4. THE INSTALLATION OF FIXTURES WILL BE IN FULL ACCORDANCE WITH PC CHAPTER 4.
5. TRAPS FOR FIXTURES AND DRAIN LINES WILL BE PROVIDED AND CLEANOUTS INSTALLED IN FULL COMPLIANCE WITH SECTIONS PC412, PC708 AND PC CHAPTER 10.
6. VERTICAL AND HORIZONTAL PIPING WILL BE HUNG AND SUPPORTED AS DIRECTED IN SPECIFICATIONS AND WITH THE FULL COMPLIANCE WITH SECTION PC308.
7. THE WATER SUPPLY SYSTEMS OF THE SUBJECT BUILDING SHALL BE INSTALLED AND MAINTAINED IN FULL COMPLIANCE WITH PC CHAPTER 6.
8. THE SANITARY DRAINAGE SYSTEM WILL BE SIZED AND INSTALLED IN FULL COMPLIANCE WITH PC CHAPTER 7.
9. THE VENT PIPING FOR THE SANITARY DRAINAGE SYSTEM OF THE SUBJECT BUILDING WILL BE INSTALLED IN FULL COMPLIANCE WITH SECTION PC702 & PC CHAPTER 9.
10. THE STORM DRAINAGE SYSTEM AND PIPING WILL BE INSTALLED IN FULL COMPLIANCE WITH PC CHAPTER 11.
11. GAS PIPING AND EQUIPMENT WILL BE INSTALLED IN FULL COMPLIANCE WITH THE NEW YORK CITY FUEL GAS CODE.
12. ALL TRENCHING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC306.
13. RAT PROOFING SHALL BE IN ACCORDANCE WITH SECTION PC304.
14. TEMPORARY TOILET FACILITIES SHALL BE PROVIDED FOR WORKMAN AS PER SECTION PC311.
15. PLUMBING SYSTEMS AND EQUIPMENT SHALL BE CONSTRUCTED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THE 2008 NEW YORK CITY BUILDING CODE.

Plumbing	Drawing No	Description	Scale
	P-001.00	PLUMBING SYMBOLS AND DRAWING LIST	NTS
	P-099.00	PLUMBING UNDERGROUND FLOOR PLAN	1/8"=1'-0"
	P-100.00	PLUMBING CELLAR FLOOR PLAN - SOUTH	1/8"=1'-0"
	P-101.00	PLUMBING CELLAR FLOOR PLAN - NORTH	1/8"=1'-0"
	P-102.00	PLUMBING 1ST FLOOR PLAN - SOUTH	1/8"=1'-0"
	P-103.00	PLUMBING 1ST FLOOR PLAN - NORTH	1/8"=1'-0"
	P-104.00	PLUMBING 2ND FLOOR PLAN	1/8"=1'-0"
	P-106.00	PLUMBING 3RD FLOOR PLAN	1/8"=1'-0"
	P-108.00	PLUMBING 4TH FLOOR PLAN	1/8"=1'-0"
	P-109.00	PLUMBING 5TH THRU 11TH FLOOR PLAN	1/4"=1'-0"
	P-110.00	PLUMBING 12TH & 13TH FLOOR PLAN	1/4"=1'-0"
	P-111.00	PLUMBING 14TH THRU 34TH FLOOR PLAN	1/4"=1'-0"
	P-112.00	PLUMBING 35TH FLOOR PLAN	1/4"=1'-0"
	P-113.00	PLUMBING 36TH FLOOR PLAN	1/4"=1'-0"
	P-114.00	PLUMBING 37TH THRU 51ST FLOOR PLAN	1/4"=1'-0"
	P-115.00	PLUMBING 52ND THRU 55TH FLOOR PLAN	1/4"=1'-0"
	P-116.00	PLUMBING 56TH THRU 61ST FLOOR PLAN	1/4"=1'-0"
	P-117.00	PLUMBING 62ND FLOOR PLAN	1/4"=1'-0"
	P-118.00	PLUMBING 63RD FLOOR PLAN	1/8"=1'-0"
	P-119.00	PLUMBING 64TH FLOOR PLAN	1/8"=1'-0"
	P-301.00	PLUMBING DOMESTIC WATER RISER DIAGRAM #1(35TH THRU 64TH FLOOR)	N.T.S.
	P-302.00	PLUMBING DOMESTIC WATER RISER DIAGRAM #2(CELLAR THRU 34TH FLOOR)	N.T.S.
	P-311.00	PLUMBING SANITARY RISER DIAGRAM #1	N.T.S.
	P-312.00	PLUMBING SANITARY RISER DIAGRAM #2	N.T.S.
	P-313.00	PLUMBING SANITARY RISER DIAGRAM #3	N.T.S.
	P-314.00	PLUMBING SANITARY RISER DIAGRAM #4	N.T.S.
	P-321.00	PLUMBING GAS RISER	N.T.S.
	P-331.00	PLUMBING STORM RISER	N.T.S.
	P-401.00	PLUMBING SCHEDULE SHEET	N.T.S.
	P-501.00	PLUMBING DETAIL SHEET #1	N.T.S.
	P-502.00	PLUMBING DETAIL SHEET #2	N.T.S.

GENERAL NOTES

1. PROVIDE RESTRAINTS & SUPPORTS AT BASE OF ALL STACKS & LEADERS.
2. SANITARY & STORM PIPING 8" & LARGER SHALL BE RODDED & CLAMPED AT EACH CHANGE OF DIRECTION.
3. PROVIDE SLEEVES THRU BEAMS AND SHEAR WALLS AS REQUIRED FOR HORIZONTAL AND VERTICAL PIPING. COORDINATE WITH OTHER TRADES AND OTHER CONTRACTORS
4. ALL CLEANOUTS ON PIPING FROM KITCHEN AREAS SHALL HAVE THEIR CLEANOUTS EXTENDED UP TO CLEANOUT DECK PLATES AT THE FLOOR ABOVE.
5. ALL PIPING AT COLUMNS SHALL BE INSTALLED AS CLOSE TO COLUMNS AS POSSIBLE. PROVIDE DETAILS ON SHOP DRAWINGS FOR APPROVAL BY ARCHITECT.
6. PROVIDE DEEP SEAL TRAPS ON ALL FLOOR DRAINS.
7. PROVIDE EXPANSION LOOPS & ANCHORS EVERY 100'-0" ON ALL HW & HWR PIPING.
8. IN ADDITION TO THOSE SHOWN ON THE PLANS & RISERS PROVIDE (5) ADDITIONAL 2" CWVO'S W/RPZ'S FOR HVAC CONTRACTOR. INCLUDE A PRV, FLOOR DRAIN & 4" STANDPIPE DRAIN FOR RELIEF PORT. ASSUME ALL REQUIRED SERVICES SHALL BE WITHIN 50'-0" OF EACH DEVICE.
9. PROVIDE ALLOWANCE FOR 10 (TEN) ADDITIONAL TRAP PRIMERS

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Manhattan West
Southwest Residential
Tower

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New York, NY.

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2015-11-12 ISSUED FOR DOB FILING

2015-05-01 Bulletin #5

2014-12-15 Issued for GMP

2014-12-08 ISSUED FOR DOB FILING

2014-10-09 Bulletin #1

2014-09-09 Issues for Construction

2014-08-01 90% Construction Documents

2014-06-03 Issued for 90% Construction Documents

2014-05-12 Issued for DOB Filing

2014-03-14 Design Development

DATE: REVISION:

D.O.B. NUMBER:

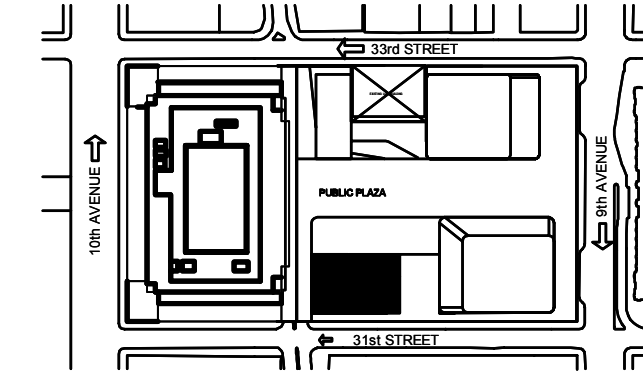
NB#

NORTH:

Scale: NTS

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KEY PLAN:



PROJECT:

MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE:

PLUMBING
SYMBOLS AND DRAWING LIST

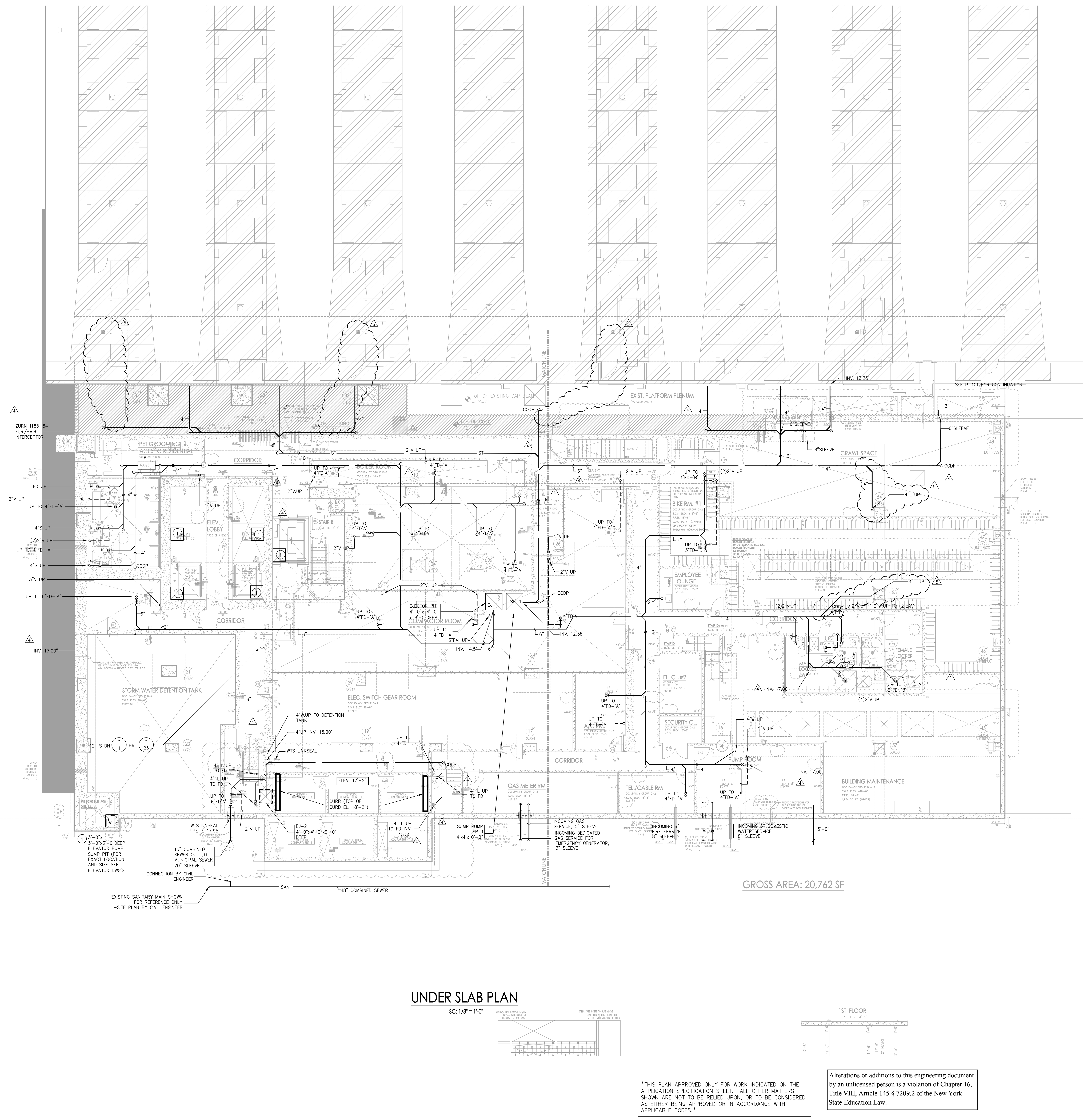
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DATE: 12/04/2013
PROJECT No.: 120187/02
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DWG. No.:
SHEET No.:
1 of 31

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FILE No.: I:\12018\02-PLUMBING\12018-001.dwg

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UNDER SLAB PLAN

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

GROSS AREA: 20,762 SF

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DATE: REVISION:

D.C.B. NUMBER:

NB#

NORTH:

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

0 1 2 3 4 5 6 7 8 9 10

KEY PLAN:

PROJECT:

MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE:

PLUMBING CELLAR
UNDERGROUND FLOOR PLAN

SEAL & SIGNATURE:

DATE: 02/17/2014

PROJECT No.: 120187.02

DRAWN BY: RW

CHECKED BY: OS

DWG. No.:

SHEET No.: 2 of 31

FILE No.: K:\2018\7-02\PLUNK12018\702P-095 (cellar floor Underground).dwg

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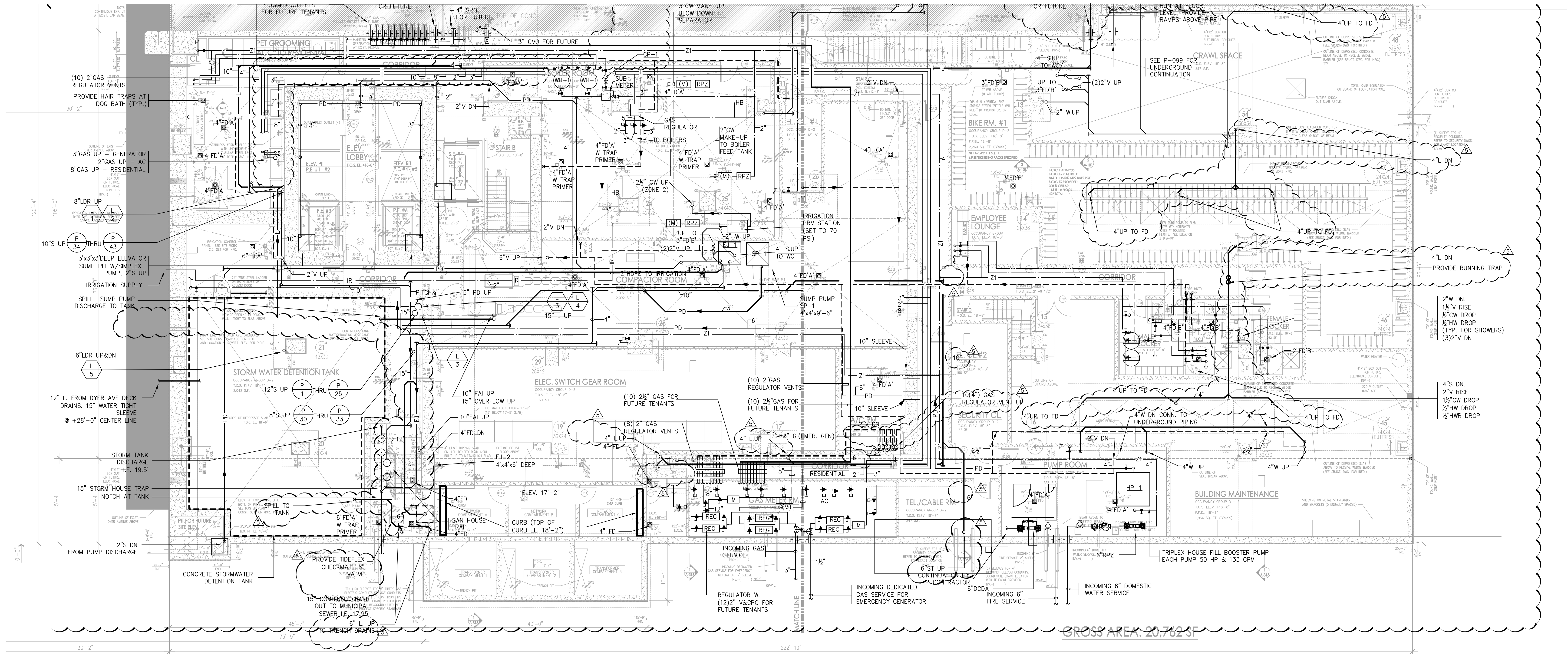
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FILE No.: K:\2018\7-02\PLUNK12018\702P-095 (cellar floor Underground).dwg

FILE NAME: K:\2018\7-02\PLUNKIN\2018\702P-100 Cellar Floor - SOUTH.dwg SAVED ON 11/17/2015 4:36 PM PLOTTED ON 11/17/2015 5:34 PM PLOTTED BY MOLINA, ISRAEL



CELLAR FLOOR PLAN - SOUTH

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FAX: (212) 689-6449

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NEW YORK, NY 10122
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FAX: (917) 339-9400

CONSTRUCTION MANAGER:

HUNTER ROBERTS
CONSTRUCTION GROUP
225 LIBERTY STREET, 6th FLOOR
NEW YORK, NY 10281
TEL: (212) 321-6800

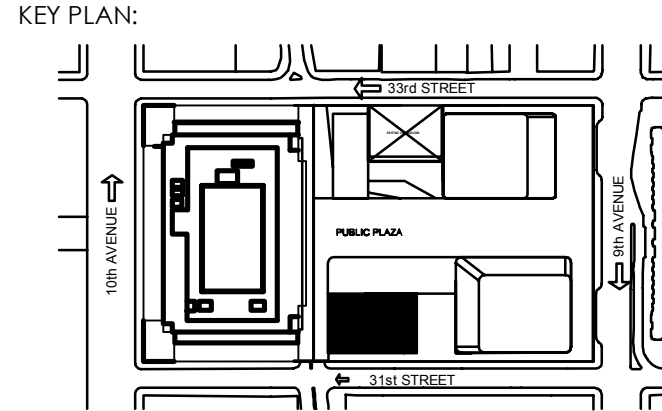
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2015-09-01	Bulletin #5
2014-12-15	Issued for GMP
2014-12-08	ISSUED FOR O&B PILING
2014-10-09	Bulletin #1
2014-09-09	Revised for Construction
2014-08-01	NEW CONSTRUCTION DOCUMENTS
2014-05-28	Revised for O&B Construction Documents
2014-05-13	Issued for O&B Piling
2014-03-14	Design Development

DATE:	REVISION:
D.C.B. NUMBER:	

NB#

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

KEY PLAN:



PROJECT:

MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE:

PLUMBING
CELLAR FLOOR PLAN - SOUTH

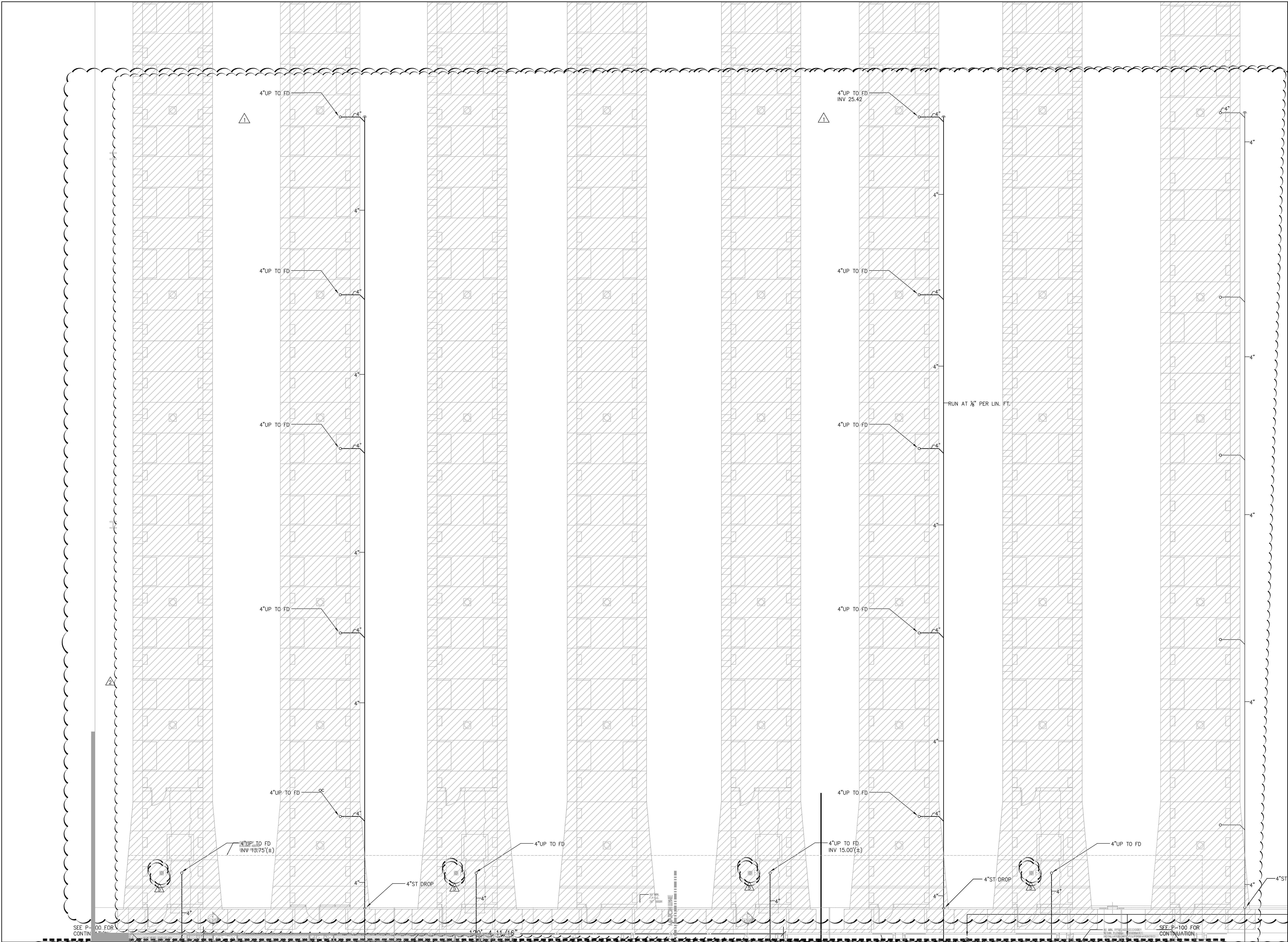
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DATE: 02/17/2014
PROJECT No: 120187.02
DRAWN BY: RW
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DWG. No.:
SHEET No.: 3 of 31

P-100.01

FILE No: K:\2018\7-02\PLUNKIN\2018\702P-100 Cellar Floor SOUTH.dwg

FILE NAME 1:120187-02\PLUM\12018702P-101 (cellar floor NORTH).dwg SAVED ON 11/11/2015 5:07 PM PLOTTED ON 11/11/2015 5:34 PM PLOTTED BY MOLINA, ISRAEL



CELLAR FLOOR PLAN - NORTH
SC: 1/8" = 1'-0"

* THIS PLAN APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES. *

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PROJECT:
**Manhattan West
Southwest Residential
Tower**
PART OF THE MANHATTAN WEST MASTER PLAN
West 31st Street & Dyer Avenue
New York, NY.

OWNER/DEVELOPER:
Brookfield
80P West 31st Street LLC
Brookfield Properties W 33rd CO.L.P.
Brookfield Place, 250 Vesey Street
New York, NY 10281

ARCHITECT:
SLCEArchitects,LLP
1359 BROADWAY
NEW YORK, NY 10018
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FAX.: (212) 979-8387

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Skidmore, Owings & Merrill LLP
14 West Street New York, NY 10005
(212) 298-9300

INTERIOR DESIGN:
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324 LAFAYETTE STREET, 6TH FLOOR
NEW YORK, NY 10012
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FAX.: (212) 625-3807

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FIELD OPERATIONS**
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ENGINEERS, P.L.L.C.**
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FAX.: (212) 615-3700

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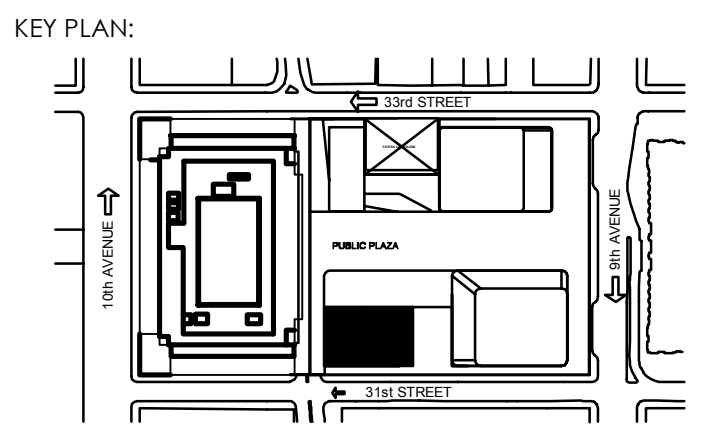
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225 LIBERTY STREET, 4TH FLOOR
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2015-11-12	ISSUED FOR DCB FILING
2015-05-01	Revised #5
2016-12-15	Issued for C&M
2016-12-08	ISSUED FOR DCB FILING
2016-10-29	Revised #1
2016-09-09	Issued for Construction
2016-08-01	R05 Construction Documents
2016-06-03	Issued for SPS Construction Documents
2016-05-12	Issued for DCB Filing
2016-03-14	Design Development

DATE: 02/17/2014
REVISION:
D.C.B. NUMBER:
NB#

NORTH
Scale: 1/8" = 1'-0"
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PROJECT:
**MANHATTAN WEST
NEW YORK, NEW YORK**

DRAWING TITLE:
**PLUMBING
CELLAR FLOOR PLAN - NORTH**

SEAL & SIGNATURE:
PROJECT NO: 12018702
DRAWN BY: EW
CHECKED BY: GS
DWG. NO.:
P-101.01
SHEET NO: 4 of 31
FILE NO: 1:120187-02\PLUM\12018702P-101 (cellar floor NORTH).dwg

Brookfield

BOP West 31st Street LLC
 Brookfield Properties W 33rd CO.LP.
 Brookfield Place, 250 Vesey Street
 New York, NY 10281

1359 BROADWAY
NEW YORK, NY 10018
TEL.: (212) 979-8400
FAX.: (212) 979-8387

INTERIOR DESIGN :
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324 LAFAYETTE STREET, 6TH FLOOR
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FAX.: (212) 625-3807

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TEL.: (212) 532-2211

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ISRAEL BERGER & ASSOCIATES, I
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FAX.: (212) 689-6449

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TEL.: (973) 994.9220


CIVIL ENGINEER :
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FAX.: (212) 929-5605

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CONSTRUCTION MANAGER:

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CONSTRUCTION GROUP**

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NEW YORK, NY 10281
TEL.: (212) 321-6800

	2014-12-15 Issued for GMP
	2014-12-08 ISSUED FOR DOB FILING
	2014-10-09 Bulletin #1
	2014-09-09 Issued for Construction

2014-03-14 Design Development	
DATE:	REVISION:
D.O.B. NUMBER:	

PUBLIC PLAZA


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W. AVENUE

PROJECT:

DRAWING TITLE:

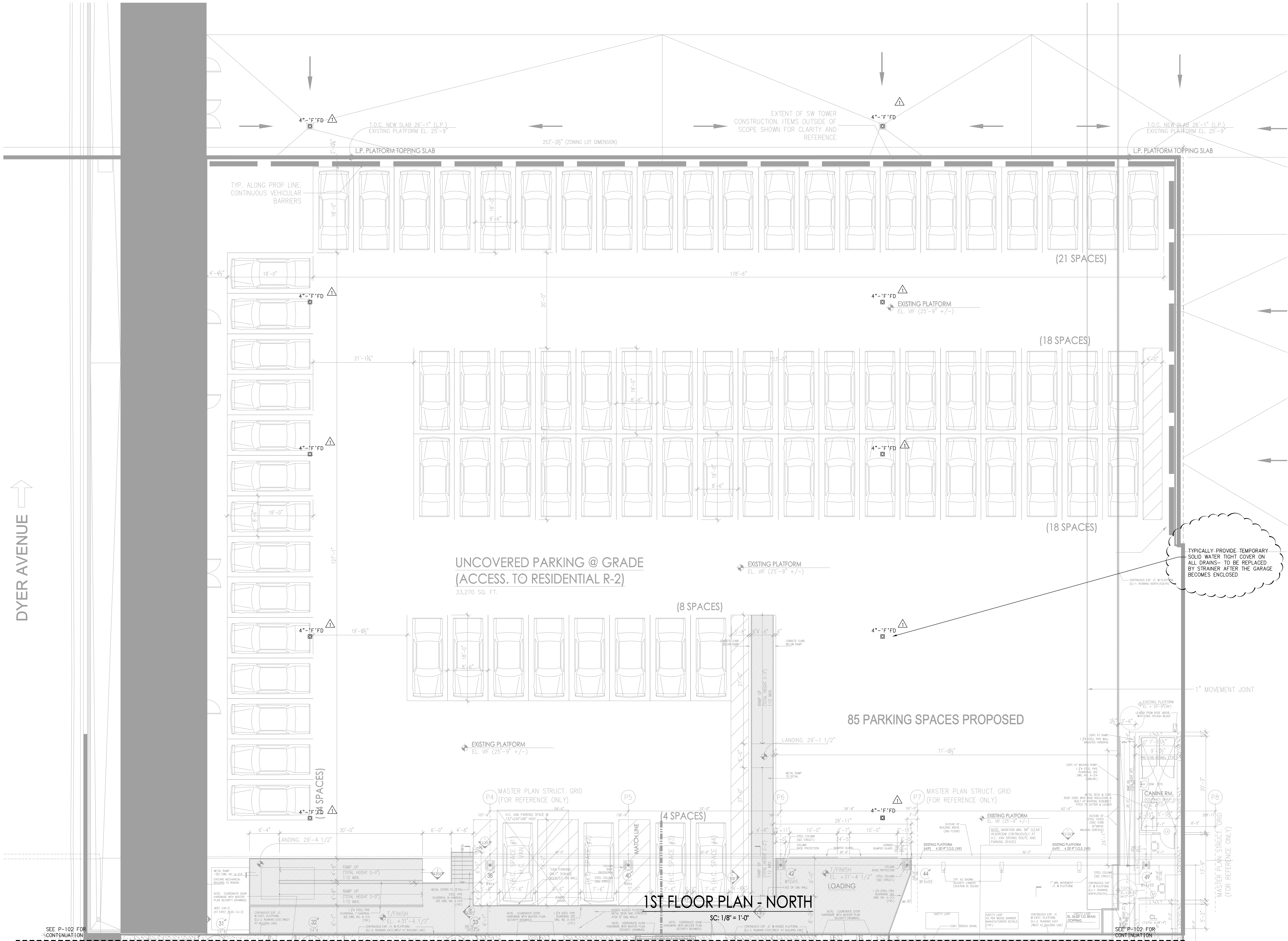
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PROJECT:
Manhattan West Southwest Residential Tower
PART OF THE MANHATTAN WEST MASTER PLAN
West 31st Street & Dyer Avenue
New York, NY, NY

OWNER/DEVELOPER:
Brookfield
80P West 31st Street LLC
Brookfield Properties W 33rd CO.L.P.
Brookfield Place, 250 Vesey Street
New York, NY 10281

ARCHITECT:
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FAX.: (212) 979-8387

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(212) 298-9300

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FAX.: (212) 625-3807

LANDSCAPE ARCHITECT:
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FAX.: (203) 299-1656

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CERAMI ASSOCIATES
404 FIFTH AVENUE
NEW YORK, NY 10018
TEL.: (212) 370-1776
FAX.: (212) 370-1736

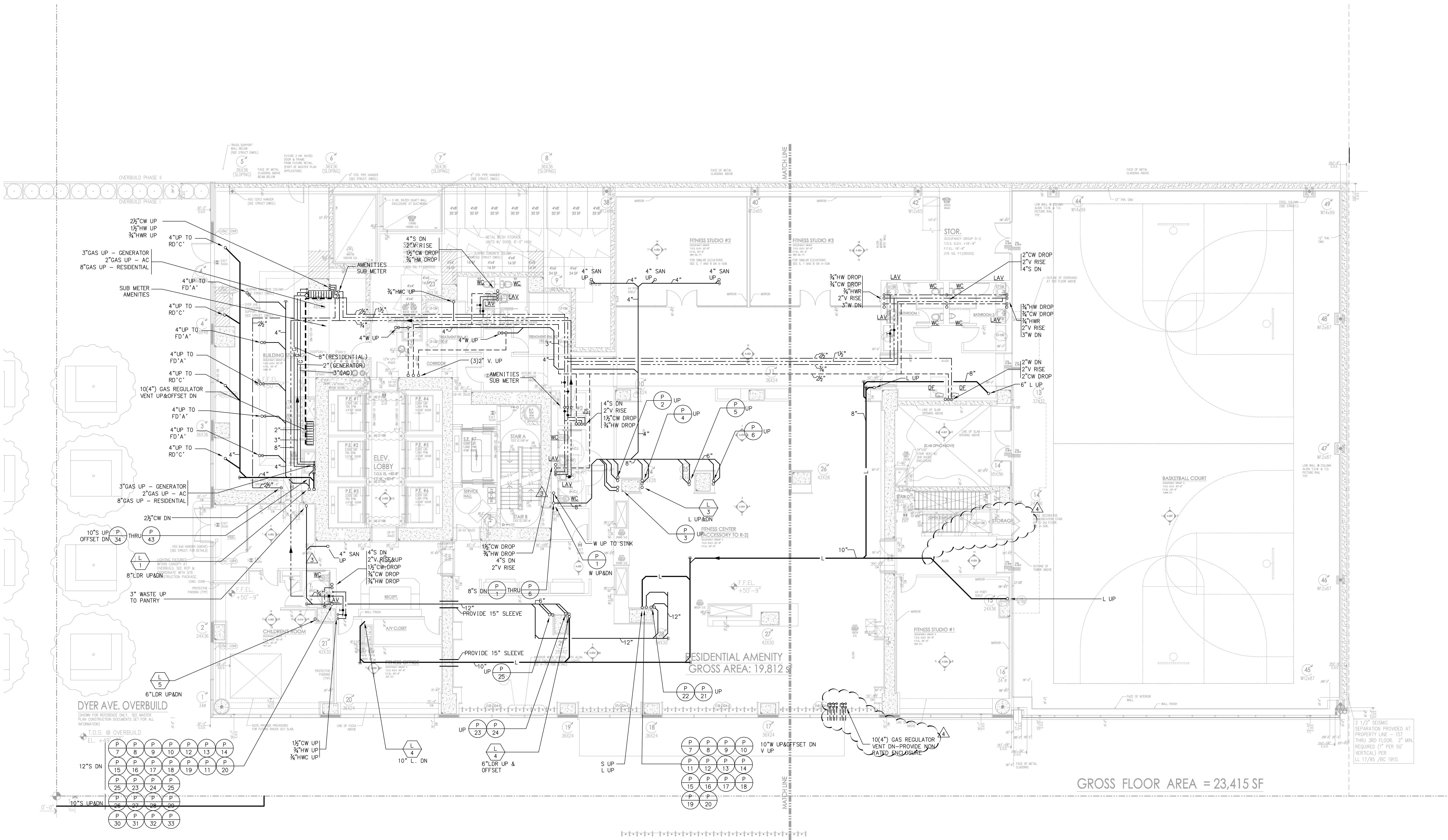
CIVIL ENGINEER:
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102 MADISON AVENUE, 11TH FL.
NEW YORK, NY 10016
TEL.: (212) 929-5656
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FAX.: (917) 339-9400

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225 LIBERTY STREET, 4TH FLOOR
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2015-11-12 ISSUED FOR DCR FILING
2015-05-01 Submittal #5
2016-12-15 Issued for GMP
2014-12-08 ISSUED FOR DCR FILING
2014-10-09 Submittal #1
2014-09-09 Issued for Construction
2014-08-01 NEW Construction Documents
2014-08-01 Issued for SDC Construction Documents
2014-05-12 Issued for DCR Filing
DATE: REVISION:
D.C.B. NUMBER:
NB#
NORTH
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KEY PLAN:
PROJECT:
MANHATTAN WEST NEW YORK, NEW YORK
DRAWING TITLE:
PLUMBING 1ST FLOOR PLAN - NORTH
SEAL & SIGNATURE:
DATE: 01/21/14
PROJECT NO: 120187-02
DRAWN BY: BW
CHECKED BY: GS
DWG. NO.:
P-103.01
SHEET NO: 6 of 31
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West 31st Street
(60' WIDE R.O.W.)

2ND FLOOR PLAN
SC: 1/8" = 1'-0"

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Manhattan West
Southwest Residential
Tower
PART OF THE MANHATTAN WEST MASTER PLAN
West 31st Street & Dyer Avenue
New York, NY

OWNER/DEVELOPER:
Brookfield
BOP West 31st Street LLC
Brookfield Properties V 3rd CO.,LP
Brookfield Place, 250 Vesey Street
New York, NY 10281

ARCHITECT:
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FAX: (212) 625-9807

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FIELD OPERATIONS
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5 REGENT STREET, SUITE 524
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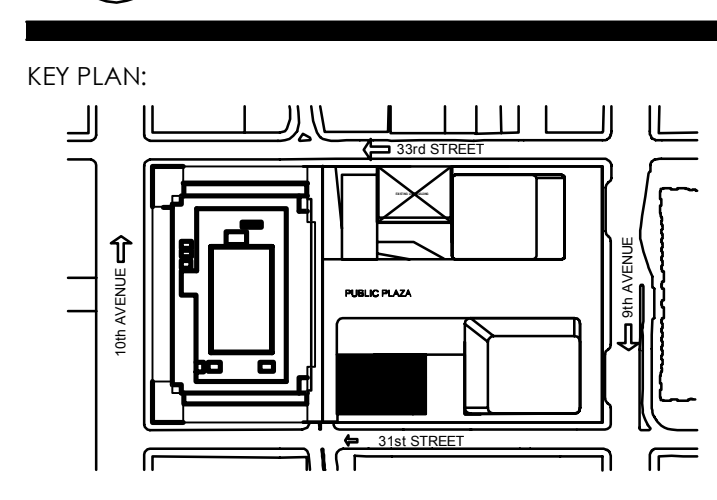
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2015-11-12	ISSUED FOR DOB FILING
2015-05-01	Submittal #5
2015-02-11	Adm no. 6
2014-12-15	Issued for GMP
2014-12-08	ISSUED FOR DOB FILING
2014-10-29	Submittal #1
2014-09-09	Issued for Construction
2014-06-01	NOE Construction Documents
2014-06-03	Issued for 95% Construction Documents
2014-05-12	Issued for DOB Filing
DATE:	REVISION:
D.O.B. NUMBER:	
NB#	
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KEY PLAN:	



PROJECT:
MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE:
PLUMBING
2ND FLOOR PLAN

SEAL & SIGNATURE:
DATE: 01/21/14
PROJECT No.: 120187-02
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CHECKED BY: OS
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P-104.01
SHEET No.: 7 of 31
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PROJECT:
Manhattan West
Southwest Residential
Tower
PART OF THE MANHATTAN WEST MASTER PLAN
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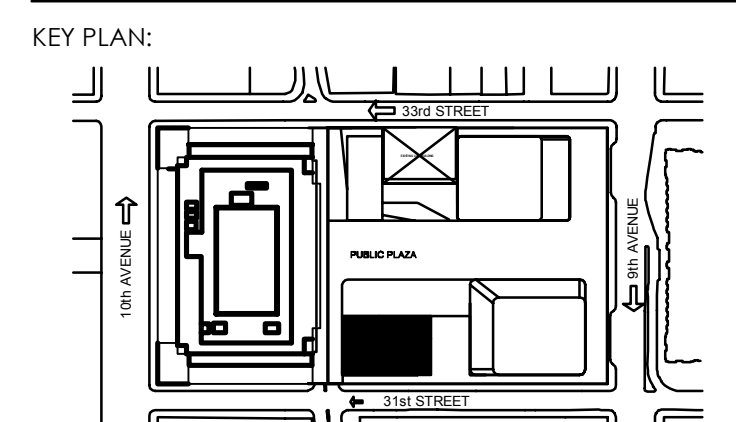
CONSTRUCTION MANAGER:
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CONSTRUCTION GROUP
225 LIBERTY STREET, 4TH FLOOR
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2015-09-01	Bulletin #5
2015-02-11	A31 no. 6
2014-10-15	Issued for COMP
2014-12-08	ISSUED FOR DCR FILING
2014-10-09	Bulletin #1
2014-06-09	Issued for Construction
2014-06-01	2014 Construction Documents
2014-04-03	Issued for 50% Construction Documents
2014-03-12	Issued for DCR Filing
2014-03-14	Design Development

DATE: REVISION:

D.C.B. NUMBER: NB#

NORTH: Scale: 1/8" = 1'-0"



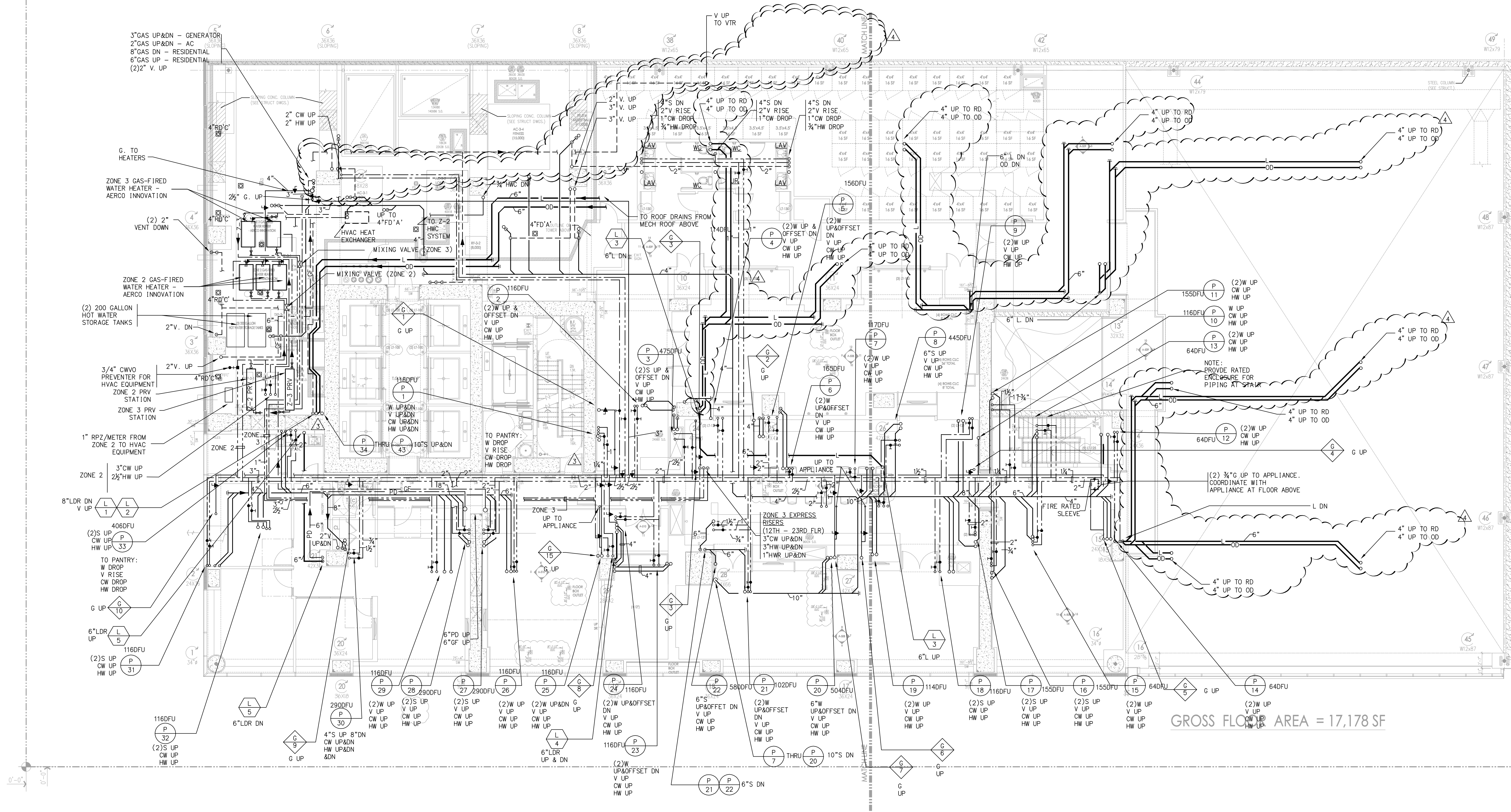
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MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE:
PLUMBING
3RD FLOOR PLAN

SEAL & SIGNATURE:

DATE: 01/21/14
PROJECT NO: 120187-02
DRAWN BY: EW
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P-106.01
SHEET NO: 8 of 31

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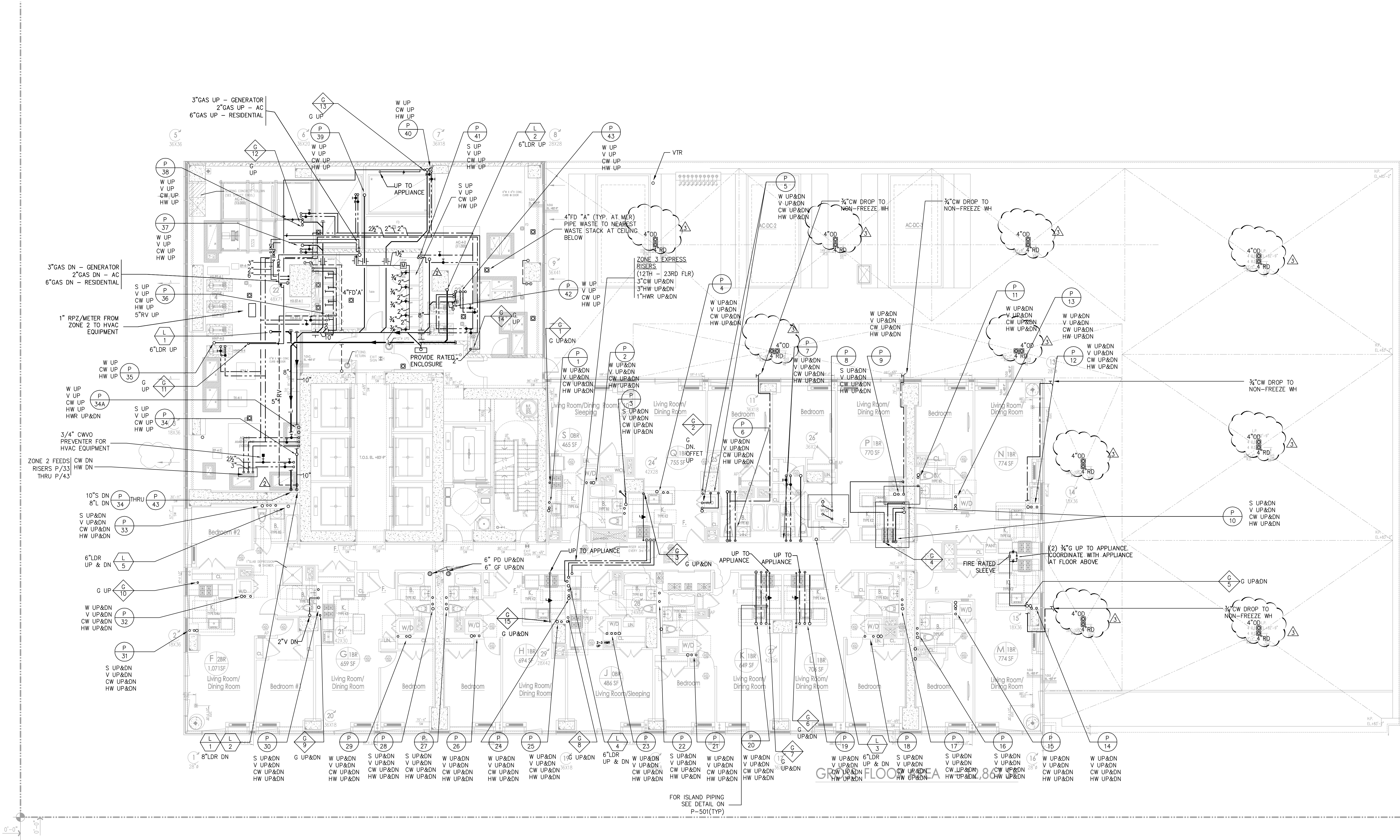
3RD FLOOR PLAN

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SAVED ON: 11/11/2015 5:31 PM
PLOTTED ON: 11/11/2015 5:36 PM
PLOTTER: BY: MOLINA, ISRAEL



4TH FLOOR PLAN

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

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Manhattan West
Southwest Residential
Tower

PART OF THE MANHATTAN WEST MASTER PLAN
West 31st Street & Dyer Avenue
New York, NY

OWNER/DEVELOPER:

Brookfield

BOP West 31st Street LLC
Brookfield Properties V 33rd CO.L.P.
Brookfield Place, 250 Vesey Street
New York, NY 10281

ARCHITECT:

SLCEArchitects,LLP

1359 BROADWAY
NEW YORK, NY 10018
TEL: (212) 979-8400
FAX: (212) 979-8387

DESIGN ARCHITECT / MASTER PLAN ARCHITECT:

SOM

Skidmore, Owings & Merrill LLP
14 Wall Street New York, NY 10005
(212) 298-9300

INTERIOR DESIGN:

RW STUDIO

324 LAFAYETTE STREET, 6TH FLOOR
NEW YORK, NY 10012
TEL: (212) 625-9808
FAX: (212) 625-9807

LANDSCAPE ARCHITECT:

JAMES CORNER

FIELD OPERATIONS

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NEW YORK, NY 10018
TEL: (212) 433-1450

STRUCTURAL ENGINEER:

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FAX: (212) 481-6108

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FAX: (212) 615-3700

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ISRAEL BERGER & ASSOCIATES, INC.

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FAX: (212) 689-6449

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VRIDIAN ENERGY & ENVIRONMENTAL

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2015-11-12 ISSUED FOR DOB FILING

2015-05-01 Bulletin #5

2014-12-15 ISSUED FOR GMP

2014-12-08 ISSUED FOR DOB FILING

2014-10-29 Bulletin #1

2014-09-09 Issued for Construction

2014-08-01 90% Construction Documents

2014-06-03 Issued for 90% Construction Documents

2014-05-12 Issued for DOB Filing

2014-01-24 90% Design Development

DATE: REVISION:

D.C.B. NUMBER:

NB#

NORTH:

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

0 5 10 20'

KEY PLAN:

PROJECT:

MANHATTAN WEST

NEW YORK, NEW YORK

DRAWING TITLE:

PLUMBING

4TH FLOOR PLAN

SEAL & SIGNATURE:

DATE: 01/21/14

PROJECT No.: 120187-02

DRAWN BY: RW

CHECKED BY: QS

DWG. No.:

SHEET No.: 7 of 31

FILE No.: I:\2018\7-02\PLUNKIN\2018\7-02\108 4th Floor.dwg

DATE: 01/21/14

PROJECT No.: 120187-02

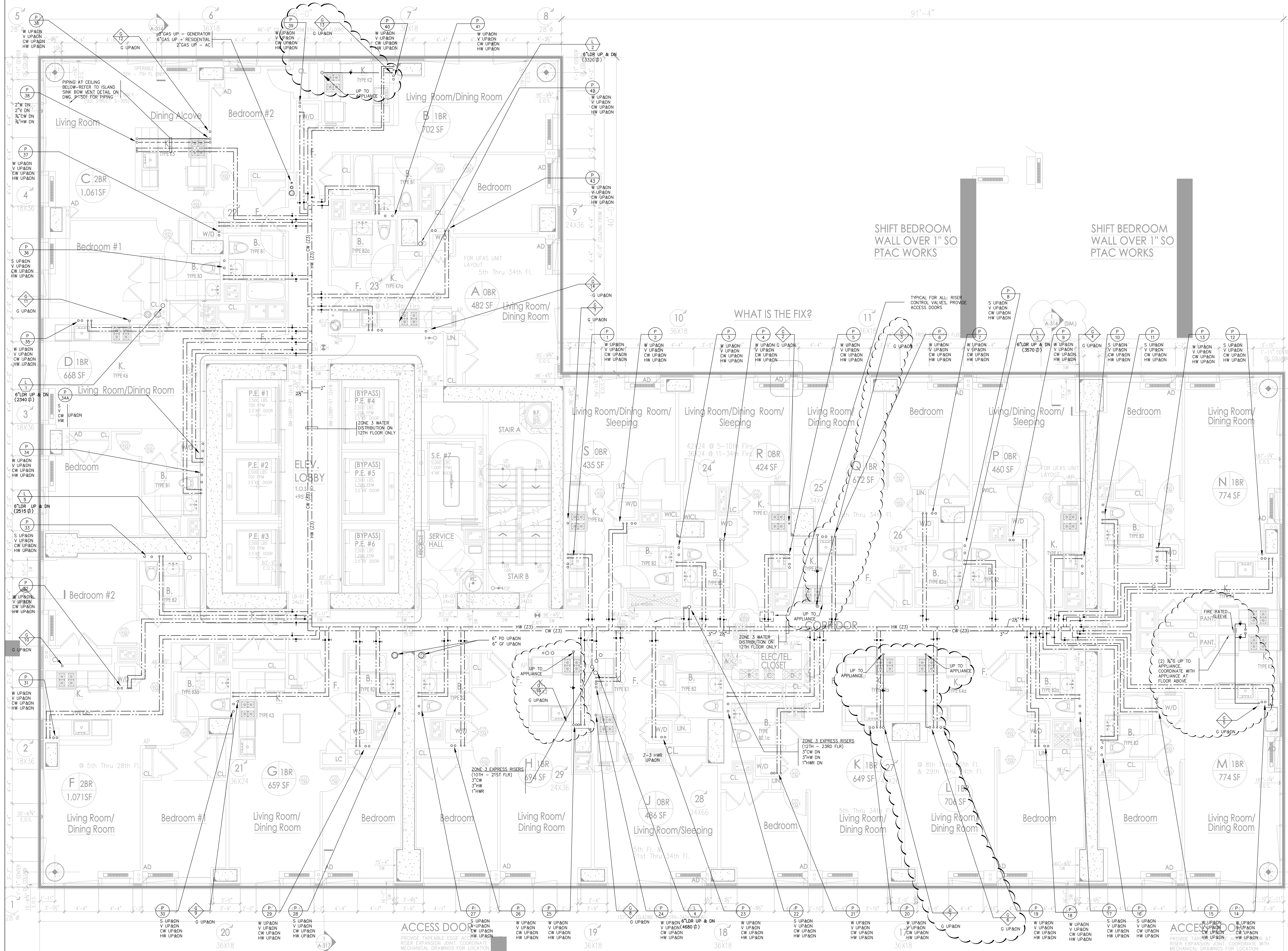
DRAWN BY: RW

CHECKED BY: QS

DWG. No.:

SHEET No.: 7 of 31

FILE No.: I:\2018\7-02\PLUNKIN\2018\7-02\108 4th Floor.dwg



TYPICAL 12TH & 13TH FLOOR

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

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Southwest Residential
Tower

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Brookfield Place, 250 Vesey Street
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FIELD OPERATIONS
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FAX: (212) 481-6108

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FAX: (212) 615-3700

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ISRAEL BERGER & ASSOCIATES, INC.
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NEW YORK, NY 10017
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FAX: (212) 689-6449

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VIRIDIAN ENERGY & ENVIRONMENTAL
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NORWALK, CT 06854
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404 FIFTH AVENUE
NEW YORK, NY 10018
TEL: (212) 370-1776
FAX: (212) 370-1736

CIVIL ENGINEER:

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CONSTRUCTION MANAGER:

HUNTER ROBERTS
CONSTRUCTION GROUP
225 LIBERTY STREET, 6th FLOOR
NEW YORK, NY 10281
TEL: (212) 321-6800

2015-11-12 ISSUED FOR DOB PLUMBING

2015-05-01: SUBMIT #3

2014-12-15: ISSUED FOR CONFP

2014-12-08: ISSUED FOR DOB PLUMBING

2014-10-09: SUBMIT #1

2014-09-09: ISSUED FOR CONSTRUCTION

2014-08-01: WKS Construction Documents

2014-06-03: ISSUED FOR 90% Construction Documents

2014-05-12: ISSUED FOR DOB RING

2014-01-24: 90% Design Development

DATE: REVISION:

D.O.B. NUMBER:

N.B.#

NORTH: Scale: 1/4" = 1'-0"

KEY PLAN:

PROJECT:

MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE:

PLUMBING
12TH & 13TH FLOOR PLAN

SEAL & SIGNATURE:

DATE: 01/21/14

PROJECT NO.: 120187-02

DRAWN BY: RW

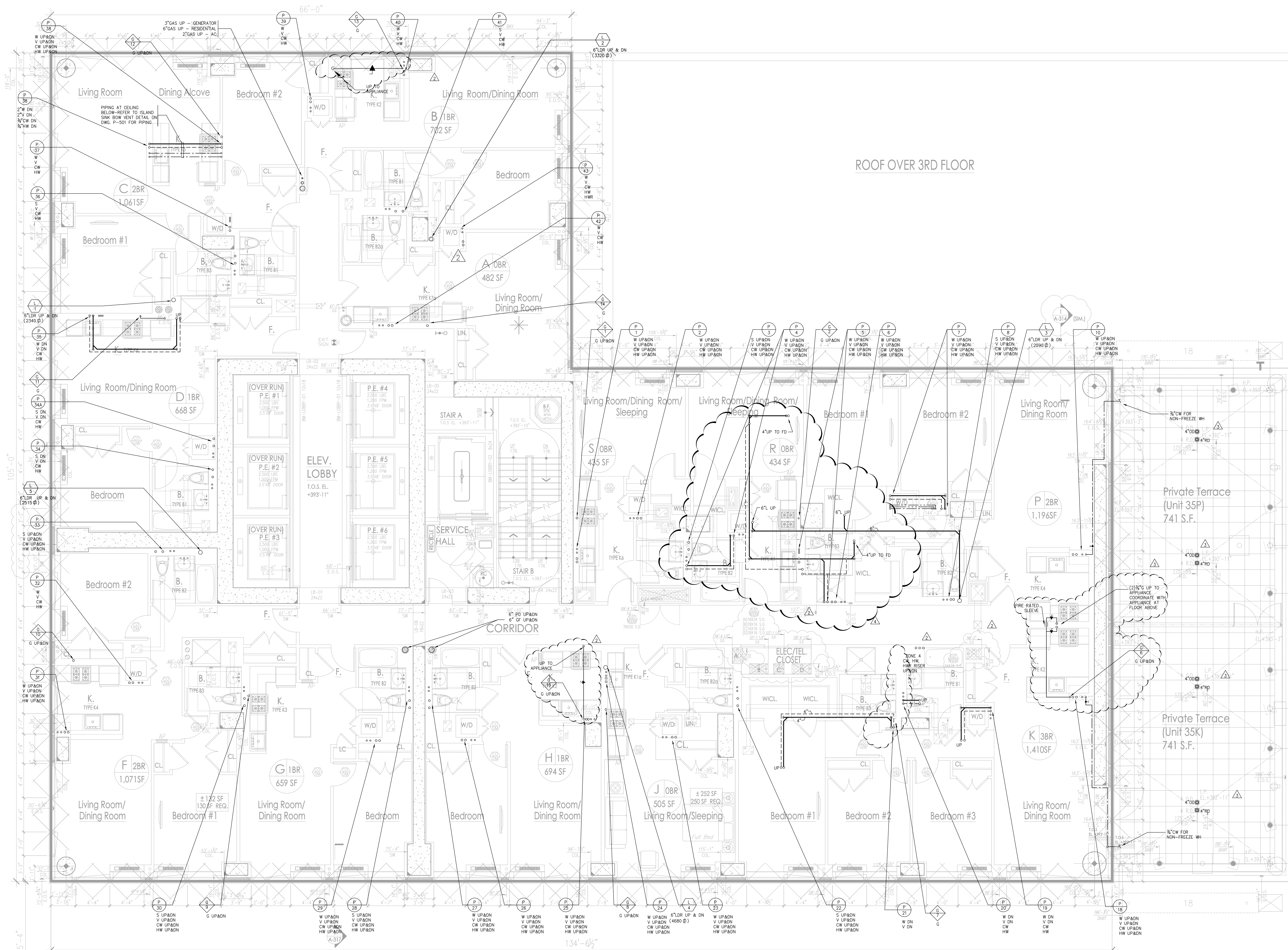
CHECKED BY: GS

DWG. NO.:

P-110.01

SHEET NO.: 11 of 31

FILE NO.: I:\2018\02-PLUMBING\201802-110 12th-13th floor.dwg



35TH FLOOR PLAN
SC: 1/4" = 1'-0"

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PROJECT:
Manhattan West
Southwest Residential
Tower
PART OF THE MANHATTAN WEST MASTER PLAN
West 31st Street & Dyer Avenue
New York, NY.

OWNER/DEVELOPER:
Brookfield
800 West 31st Street LLC
Brookfield Properties W 33rd COL.P.
Brookfield Place, 250 Vesey Street
New York, NY 10021

ARCHITECT:
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FAX: (212) 979-8387

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FAX: (212) 512-2001

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FAX: (212) 625-3837

LANDSCAPE ARCHITECT:
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FIELD OPERATIONS
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ISRAEL BERGER & ASSOCIATES, INC.
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FAX: (917) 339-9400

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HUNTER ROBERTS
CONSTRUCTION GROUP
225 LIBERTY STREET, 4TH FLOOR
NEW YORK, NY 10012
TEL: (212) 321-6800

2015-11-11 ISSUED FOR DCR FILING
2015-09-29 ASB No. 26
2015-05-21 ISSUED FOR DCR FILING
2014-12-15 ISSUED FOR DCR FILING
2014-12-08 ISSUED FOR DCR FILING
2014-12-02 Rebuttal #1
2014-09-01 ASB Construction Documents
2014-08-01 ASB Construction Documents
2014-05-12 ISSUED FOR DCR FILING

DATE: 01/21/14
REVISION: 12/07/12

D.C.B. NUMBER: 120787-02
NB# 120787-02

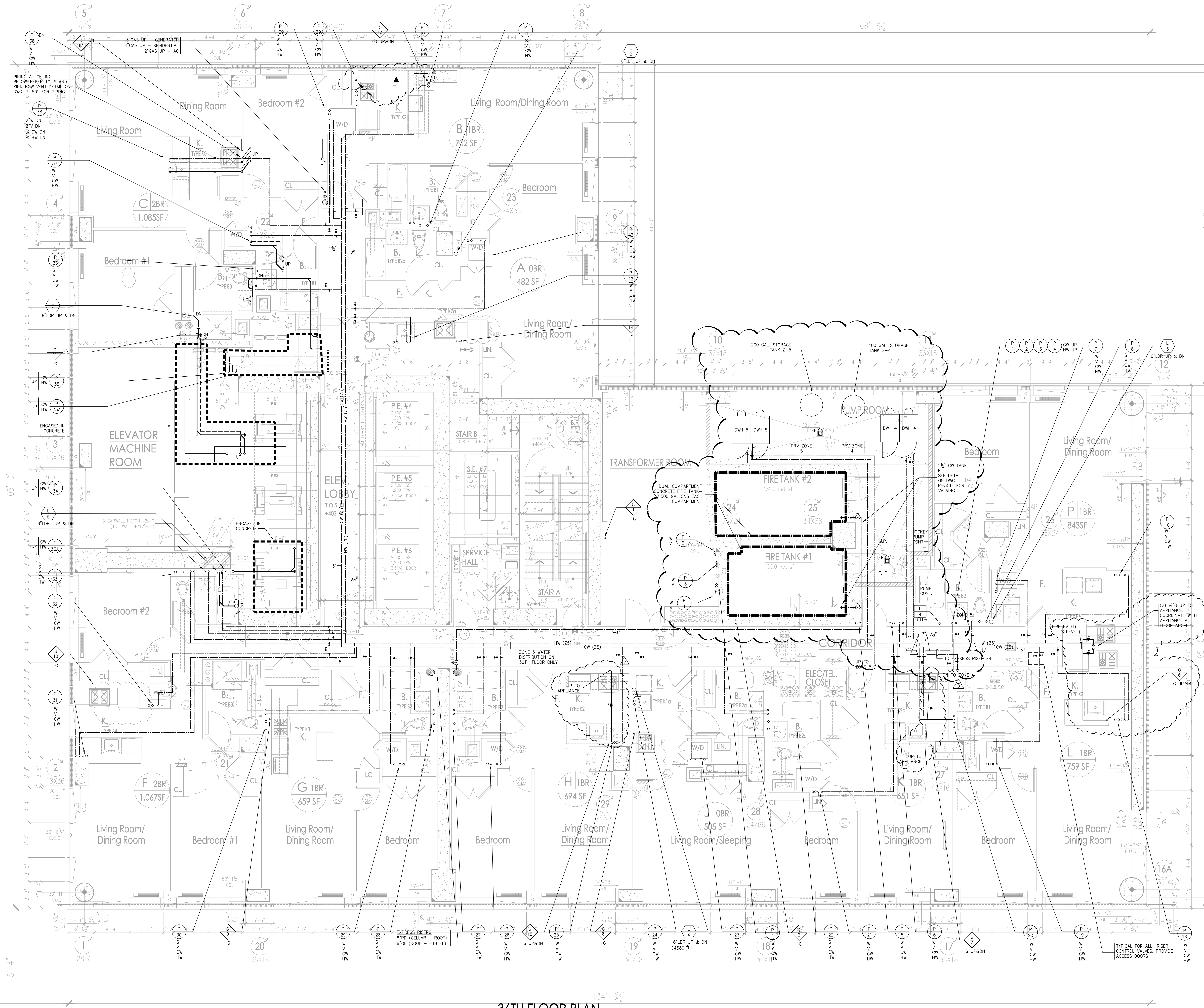
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KEY PLAN:

PROJECT:
MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE:
PLUMBING
35TH FLOOR PLAN

SEAL & SIGNATURE:
DATE: 01/21/14
PROJECT NO: 120787-02
DRAWN BY: RW
CHECKED BY: GS
DWG. NO.: P-112.01
SHEET NO: 13 of 31
FILE NO: I:\20187-02\PLUM\2018702P-112 (35th floor)dwg



36TH FLOOR PLAN

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

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PROJECT

Manhattan West
Southwest Residential
Tower

PART OF THE MANHATTAN WEST MASTER PLAN
West 31st Street & Dyer Avenue
New York, NY, NY

OWNER/DEVELOPER

Brookfield

800 West 31st Street LLC
Brookfield Properties W 3rd COLP
Brookfield Place, 250 Vesey Street
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ARCHITECT

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1359 BROADWAY
NEW YORK, NY 10018
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DESIGN ARCHITECT / MASTER PLAN ARCHITECT

SOM

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14 West Street New York, NY 10005
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INTERIOR DESIGN

RW STUDIO

324 LAFAYETTE STREET, 6TH FLOOR
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TEL: (212) 625-9838
FAX: (212) 625-3807

LANDSCAPE ARCHITECT

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2015-11-12 ISSUED FOR DCB RING

2015-09-29 ASB NO. 24

2015-09-01 BUREAU OF

2014-12-15 ISSUED FOR COMP

2014-12-08 ISSUED FOR DCB RING

2014-10-09 BUREAU OF

2014-09-09 ISSUED FOR CONSTRUCTION

2014-08-01 FOR CONSTRUCTION DOCUMENTS

2014-05-03 ISSUED FOR S&B CONSTRUCTION DOCUMENTS

2014-05-12 ISSUED FOR DCB RING

DATE: REVISION:

D.C.B. NUMBER:

NB#

NORTH

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

0 12 24

KEY PLAN:

PROJECT:

MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE:

PLUMBING
36TH FLOOR PLAN

SEAL & SIGNATURE:

DATE: 02/17/2014

PROJECT NO: 12018702

DRAWN BY: KW

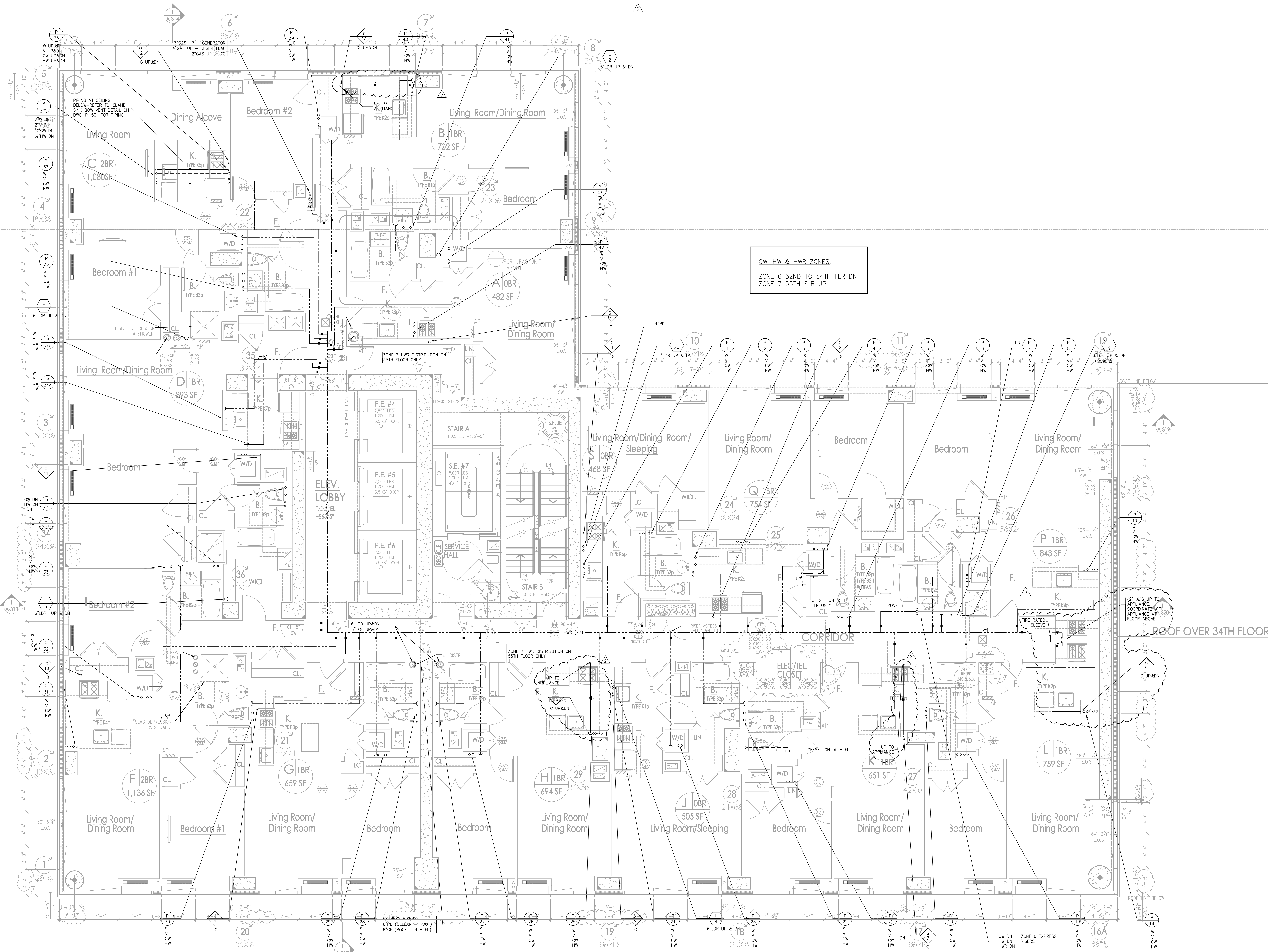
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DWG. NO.: **P-113.01**

SHEET NO: 14 of 31

FILE NO: I:\2018\7-02\PLUM\2018\702P-113 (36th floor) dwg

FILE NAME I:\120187-02\PLUM\12018702P-11552nd thru 55th floor.dwg SAVED ON 11/11/2015 5:26 PM PLOTTED BY MOLINA, ISRAEL



52ND THRU 55TH FLOOR PLAN

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

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REVISIONS

NO.	DATE	DESCRIPTION
1	2015.11.12	ISSUED FOR DCB RUMG
2	2015.05.01	Revised AS
3	2014.12.15	Issued for CWP
4	2014.10.09	Issued for Construction
5	2014.09.09	Revised for Construction
6	2014.08.03	Issued for Construction Documents
7	2014.04.12	Issued for DCB RUMG
8	2014.03.14	Design Development

DATE: 02/17/2014

PROJECT NO: 12018702

DRAWN BY: LW

CHECKED BY: GS

DWG. NO.: P-115.01

SHEET NO: 16 of 31

FILE NO: I:\120187-02\PLUM\12018702P-11552nd thru 55th floor.dwg

PROJECT

MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE

PLUMBING
52ND THRU 55TH FLOOR PLAN

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

KEY PLAN:

PROJECT:

MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE:

PLUMBING
52ND THRU 55TH FLOOR PLAN

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

KEY PLAN:

PROJECT:

MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE:

PLUMBING
52ND THRU 55TH FLOOR PLAN

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

KEY PLAN:

PROJECT:

MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE:

PLUMBING
52ND THRU 55TH FLOOR PLAN

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

KEY PLAN:

PROJECT:

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NEW YORK, NEW YORK

DRAWING TITLE:

PLUMBING
52ND THRU 55TH FLOOR PLAN

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

KEY PLAN:

PROJECT:

MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE:

PLUMBING
52ND THRU 55TH FLOOR PLAN

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

KEY PLAN:

PROJECT:

MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE:

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52ND THRU 55TH FLOOR PLAN

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

KEY PLAN:

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NEW YORK, NEW YORK

DRAWING TITLE:

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52ND THRU 55TH FLOOR PLAN

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KEY PLAN:

PROJECT:

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52ND THRU 55TH FLOOR PLAN

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

KEY PLAN:

PROJECT:

MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE:

PLUMBING
52ND THRU 55TH FLOOR PLAN

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

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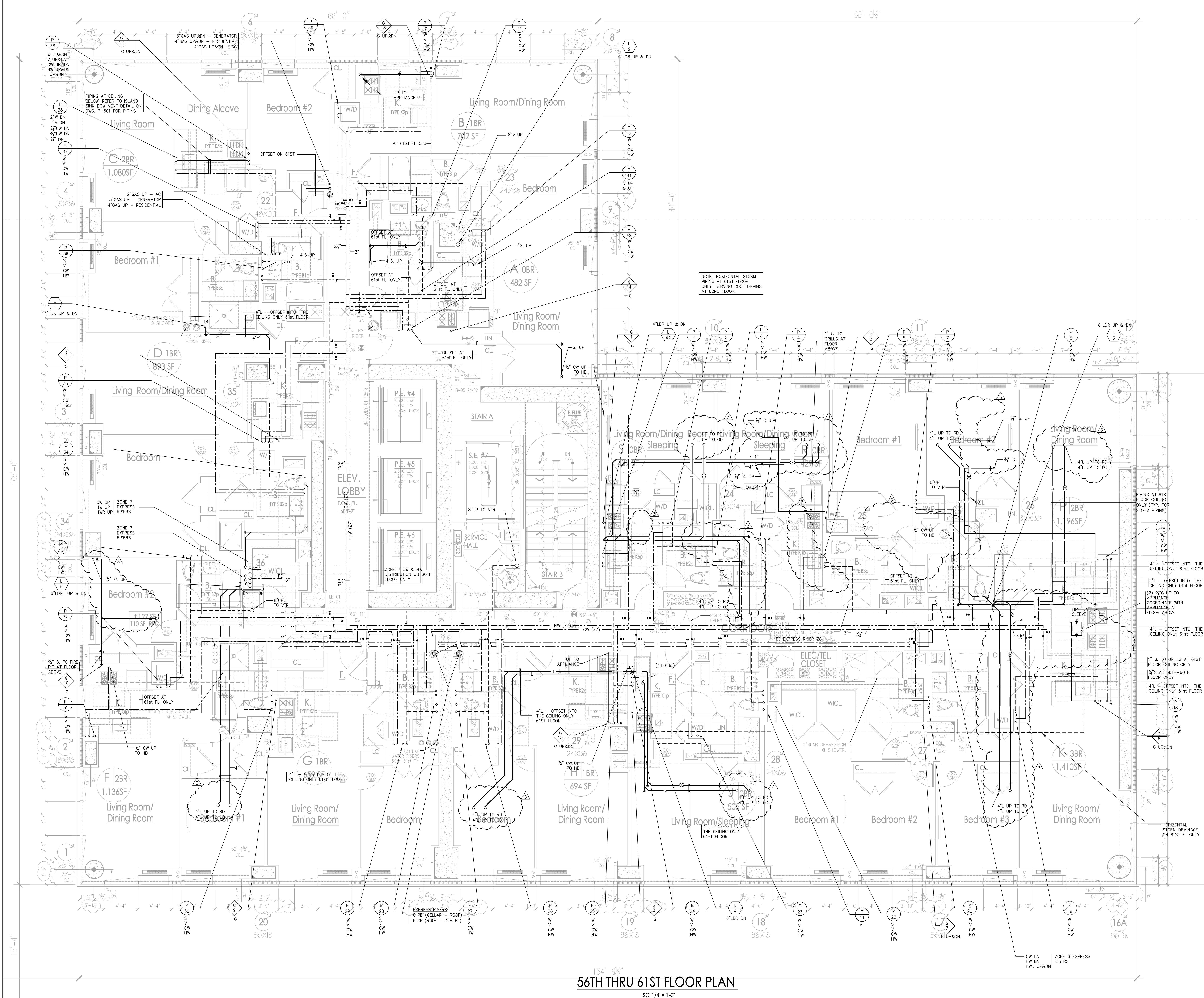
DRAWING TITLE:

PLUMBING
52ND THRU 55TH FLOOR PLAN

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

KEY PLAN:

FILE NAME: I:\2018\7-02\PLUM\12018702P-11656th thru 61st floor.dwg
SAVED ON: 11/11/2015 5:40 PM
PLOTTED BY: MOLINA, ISRAEL



56TH THRU 61ST FLOOR PLAN
SC: 1/4" = 1'-0"

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PROJECT

Manhattan West
Southwest Residential
Tower

PART OF THE MANHATTAN WEST MASTER PLAN
West 31st Street & Dyer Avenue
New York, NY, 10281

OWNER/DEVELOPER

Brookfield

809 West 31st Street LLC
Brookfield Properties W 33rd COLP
Brookfield Place, 250 Vesey Street
New York, NY 10281

ARCHITECT

SLCEArchitects, LLP

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FAX: (212) 979-8387

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(212) 298-9300

INTERIOR DESIGN

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FAX: (212) 625-3807

LANDSCAPE ARCHITECT

JAMES CORNER

FIELD OPERATIONS
475 TENTH AVENUE
NEW YORK, NY 10018
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NEW YORK, NY 10011
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FAX: (212) 615-3700

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232 MADISON AVENUE
NEW YORK, NY
TEL: (212) 689-5389
FAX: (212) 689-6449

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50 WASHINGTON STREET
NORWALK, CT 06854
TEL: (203) 299-1411
FAX: (203) 299-1656

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5 REGENT STREET, SUITE 524
LIVINGSTON, NJ 07039
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404 FIFTH AVENUE
NEW YORK, NY 10018
TEL: (212) 370-1774
FAX: (212) 370-1736

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PHILIP HABIB & ASSOCIATES

102 MADISON AVENUE, 11TH FL.
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GEOTECHNICAL ENGINEER

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225 WEST 34TH STREET
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TEL: (917) 339-9300
FAX: (917) 339-9400

CONSTRUCTION MANAGER

HUNTER ROBERTS CONSTRUCTION GROUP

225 LIBERTY STREET, 4TH FLOOR
NEW YORK, NY 10281
TEL: (212) 321-6800

2013-11-12 ISSUED FOR DCB RING

2013-09-18 ASD CDR

2013-09-18 Issued for DCB RING

2014-12-15 Issued for CDR

2014-12-15 Issued for DCB RING

2014-10-09 Issued for Construction

2014-08-01 WDC Construction Documents

2014-08-01 Issued for SDC Construction Documents

2014-05-12 Issued for DCB RING

DATE

REVISION

D.C.B. NUMBER

NB#

NORTH

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

KEY PLAN:

PROJECT

MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE

PLUMBING
56TH THRU 61ST FLOOR PLAN

SEAL & SIGNATURE:

DATE: 02/17/2014

PROJECT NO: 12018702

DRAWN BY: JW

CHECKED BY: GS

DWG. NO.: **P-116.01**

SHEET NO: 17 of 31

FILE NO:

I:\2018\7-02\PLUM\12018702P-11656th thru 61st floor.dwg

Manhattan West
Southwest Residential
Tower

PART OF THE MANHATTAN WEST MASTER PLAN
West 31st Street & Dyer Avenue
New York, NY

OWNER/DEVELOPER:

Brookfield
BOP West 31st Street LLC
Brookfield Properties V 33rd CO.L.P.
Brookfield Place, 250 Vesey Street
New York, NY 10281

ARCHITECT:

SLCEArchitects,LLP

1359 BROADWAY
NEW YORK, NY 10018
TEL: (212) 979-8400
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2015-08-18 ASB 005

2015-08-01 Bulletin #5

2014-12-15 Issued for GMP

2014-12-08 ISSUED FOR DCS FILING

2014-12-09 Bulletin #1

2014-09-29 Issued for Construction

2014-08-01 90% Construction Documents

2014-04-03 Issued for 90% Construction Documents

2014-03-14 Design Development

DATE: REVISION:

D.C.B. NUMBER:

NB#

NORTH: Scale: 1/4" = 1'-0"

0 6 12 20'

KEY PLAN:

PROJECT:

MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE:

PLUMBING
62ND FLOOR PLAN

DATE: 01/21/14

PROJECT No.: 120187-02

DRAWN BY: RW

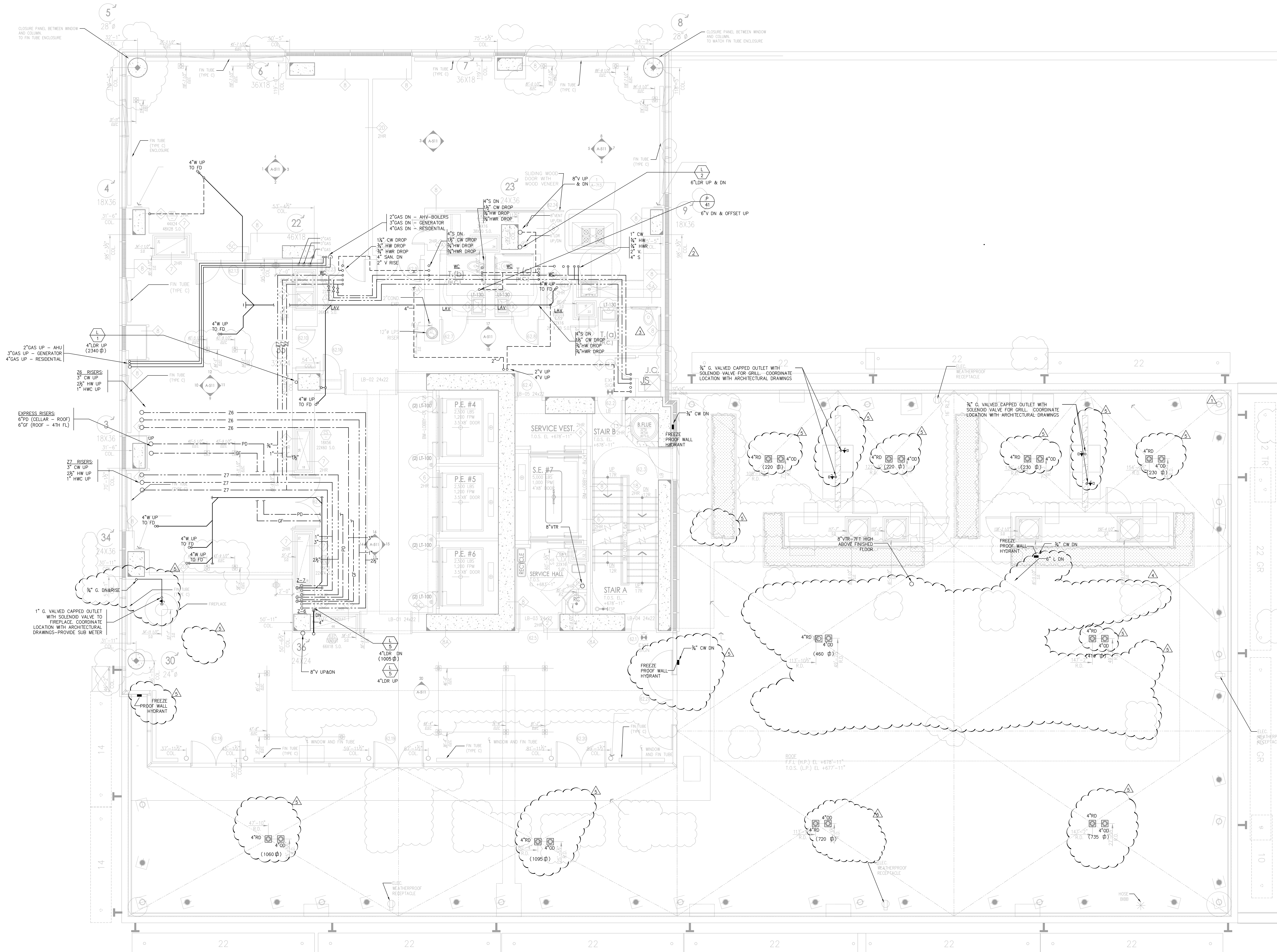
CHECKED BY: OS

2WG, No.:

P-117.01

SHEET No.: 18 of 31

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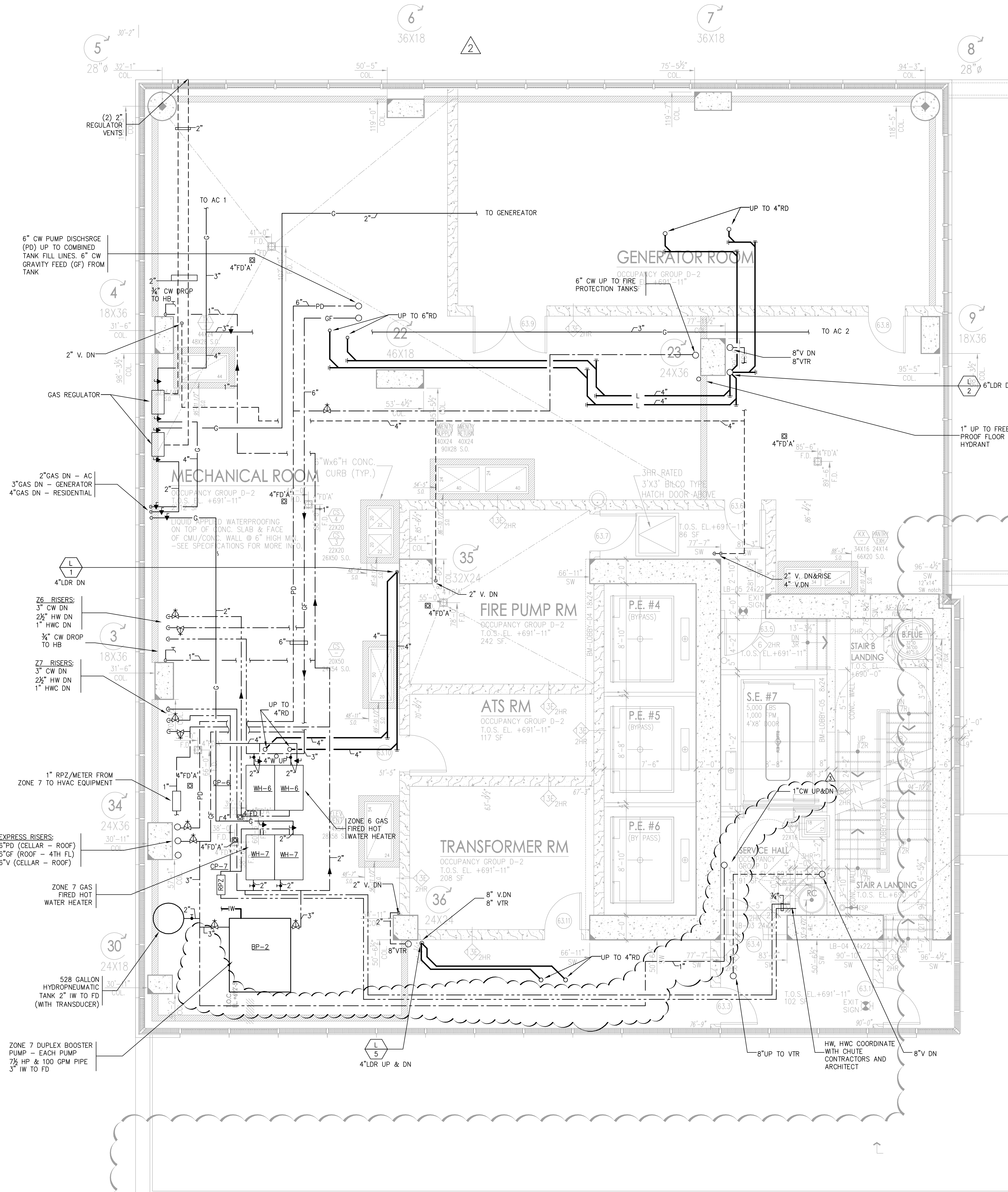
62ND FLOOR PLAN

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

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FILE NAME: I:\12018\02-PLUMBING\63rd Floor.dwg SAVED ON 11/11/2015 5:41 PM PLOTTED BY MOLINA, ISRAEL



63RD FLOOR PLAN
SC: 1/4" = 1'-0"

NOTE FOR ASI #21:
1. DRAWINGS ISSUED FOR REVISIONS TO HYBRID WALL AND STOREFRONT ONLY.
2. ASSOCIATED REVISIONS TO ALL OTHER TRADES TO BE INCLUDED IN A FUTURE ASI.
3. DO NOT USE FOR CONCRETE SLAB PLACEMENT OR TRADE COORDINATION.

TOTAL GROSS AREA: 5,188 SF

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2015-11-12 ISSUED FOR DOB FILING

2015-06-18 AS-0755

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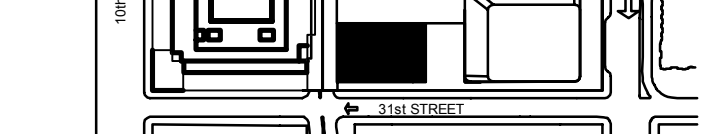
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NB#

NORTH: Scale: 1/4" = 1'-0"

0 5 10 20'

KEY PLAN:



PROJECT:

MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE:

PLUMBING
63RD FLOOR PLAN

SEAL & SIGNATURE:

DATE: 01/21/14

PROJECT No.: 12018-02

DRAWN BY: RW

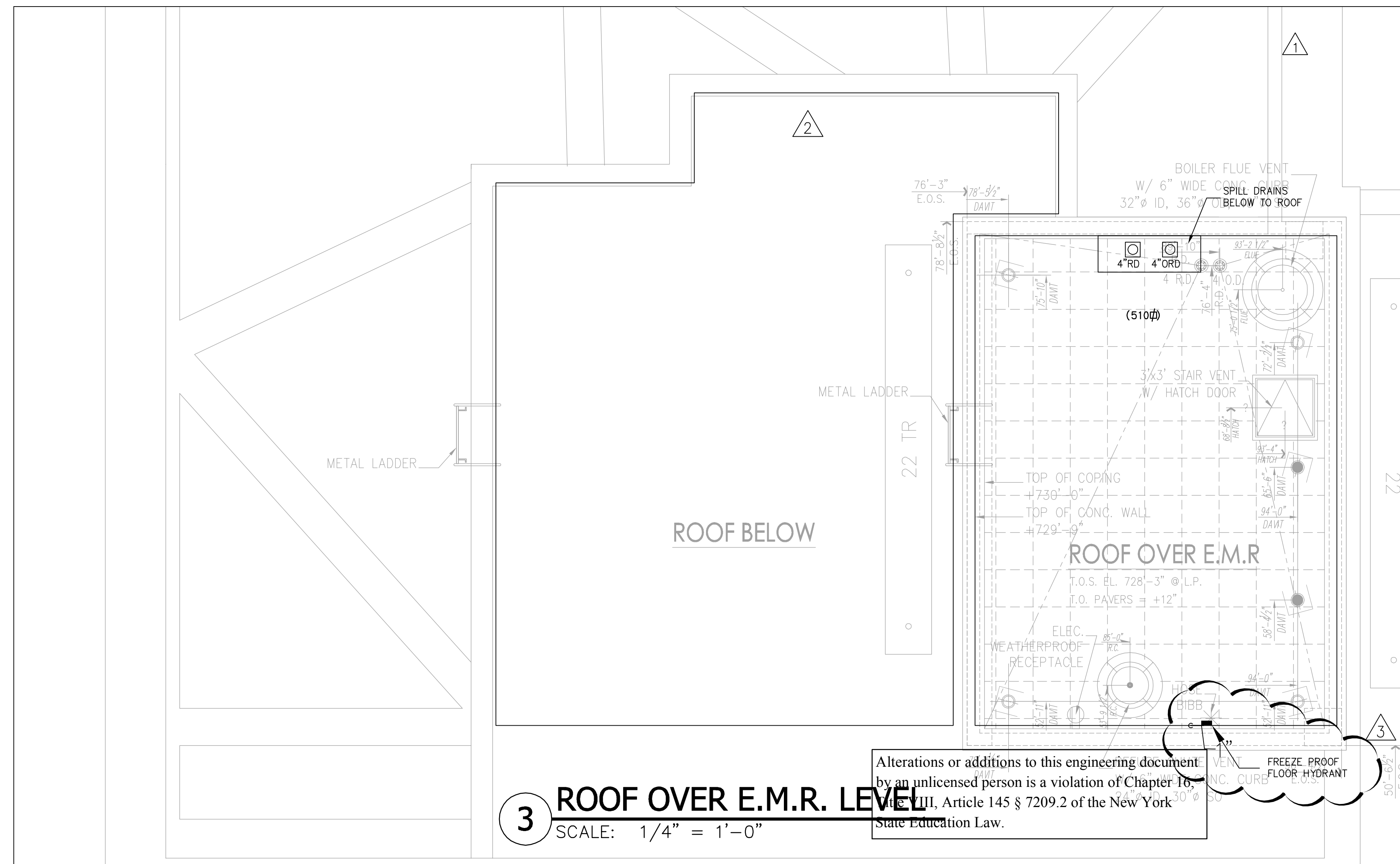
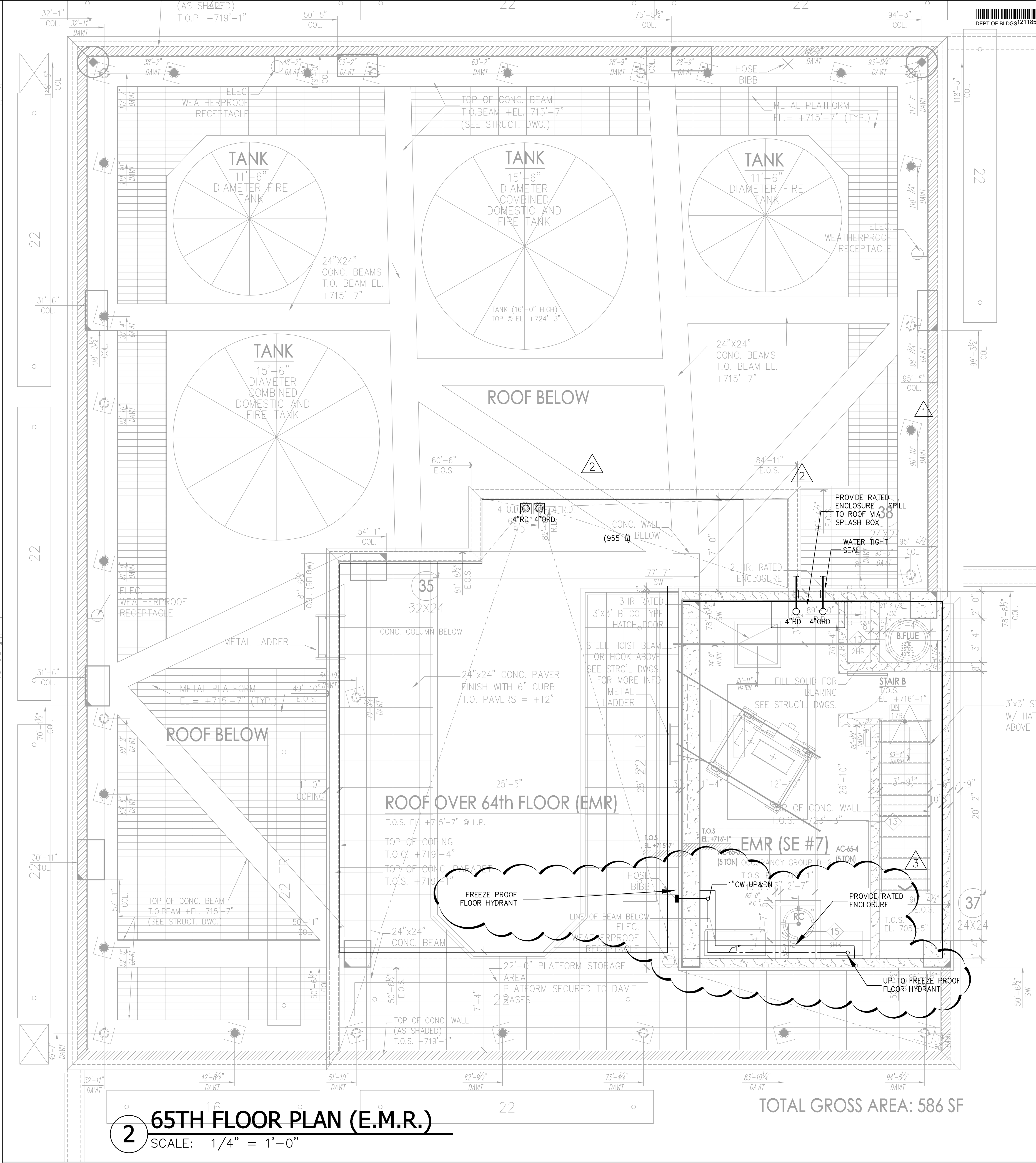
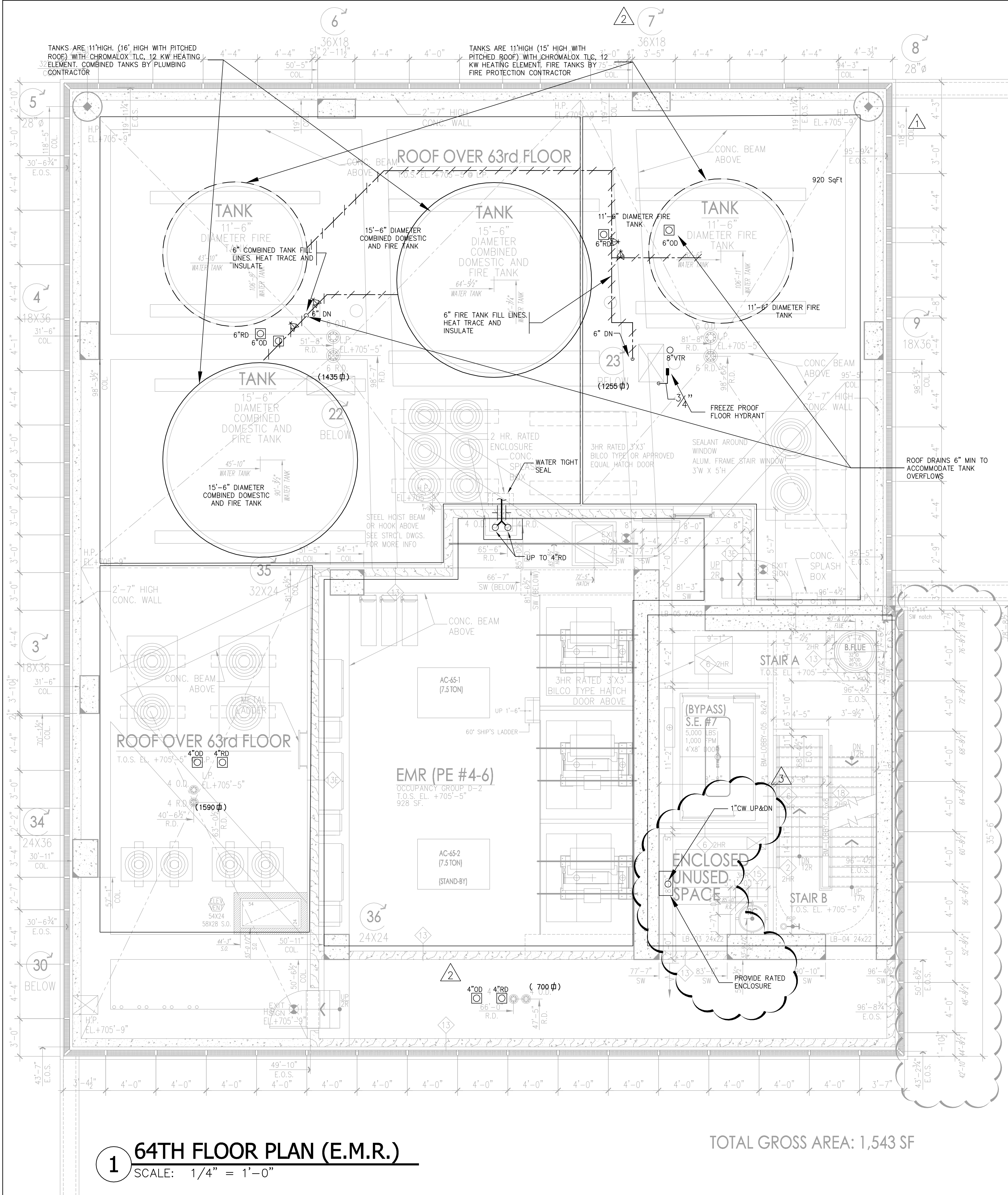
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DWG. No.: P-118.01

SHEET No.: 19 of 31

FILE No.: I:\12018\02-PLUMBING\63rd Floor.dwg

FILE NAME: I:\2018\1-02 PLUMBING\2018\2018-119564th Floor.dwg
SAVED ON: 11/17/2015 4:49 PM
PLOTTED ON: 11/17/2015 5:42 PM
PLOTTER: BY: MOLINA, ISRAEL



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Manhattan West Southwest Residential Tower

PART OF THE MANHATTAN WEST MASTER PLAN
West 31st Street & Over Avenue
New York, NY

OWNER/DEVELOPER:

Brookfield
80F West 31st Street LLC
Brookfield Properties V 33rd COL.P.
Brookfield Place, 250 Vesey Street
New York, NY 10281

ARCHITECT:

SLCEArchitects,LLP
1359 BROADWAY
NEW YORK, NY 10018
TEL: (212) 979-8400
FAX: (212) 979-8387

DESIGN ARCHITECT / MASTER PLAN ARCHITECT:

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(212) 298-9000

INTERIOR DESIGN:

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NEW YORK, NY 10012
TEL: (212) 625-9808
FAX: (212) 625-9807

LANDSCAPE ARCHITECT:

JAMES CORNER
FIELD OPERATIONS
475 TENTH AVENUE
NEW YORK, NY 10018
TEL: (212) 453-1450

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ENGINEERS, P.L.L.C.
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FAX: (212) 481-1108

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NEW YORK, NY 10121
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FAX: (212) 615-3700

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ISRAEL BERGER & ASSOCIATES, INC.
232 MADISON AVENUE
NEW YORK, NY
TEL: (212) 689-5389
FAX: (212) 689-6449

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VRIDIAN ENERGY & ENVIRONMENTAL
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NORWALK, CT 06854
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FAX: (203) 299-1555

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FAX: (917) 339-9400

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CONSTRUCTION GROUP
225 LIBERTY STREET, 6TH FLOOR
NEW YORK, NY 10281
TEL: (212) 521-6800

2015-11-12 ISSUED FOR DCR FILING

2015-05-01 Rebuttal #5

2014-12-15 Issued for GMP

2014-12-08 ISSUED FOR DCR FILING

2014-10-09 Rebuttal #1

2014-09-09 Issued for Construction

2014-08-01 90% Construction Documents

2014-06-03 Issued for 90% Construction Documents

2014-05-12 Issued for DCR Filing

2014-03-14 Design Development

DATE: REVISION:

D.C.R. NUMBER:

NB#

NORTH:

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

0 2 4 6 8 10 12 14 16 18 20

KEY PLAN:

PROJECT:

MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE:

PLUMBING
64TH FLOOR PLAN

SEAL & SIGNATURE:

DATE: 12/18/2013

PROJECT No.: 120187.02

DRAWN BY: AT

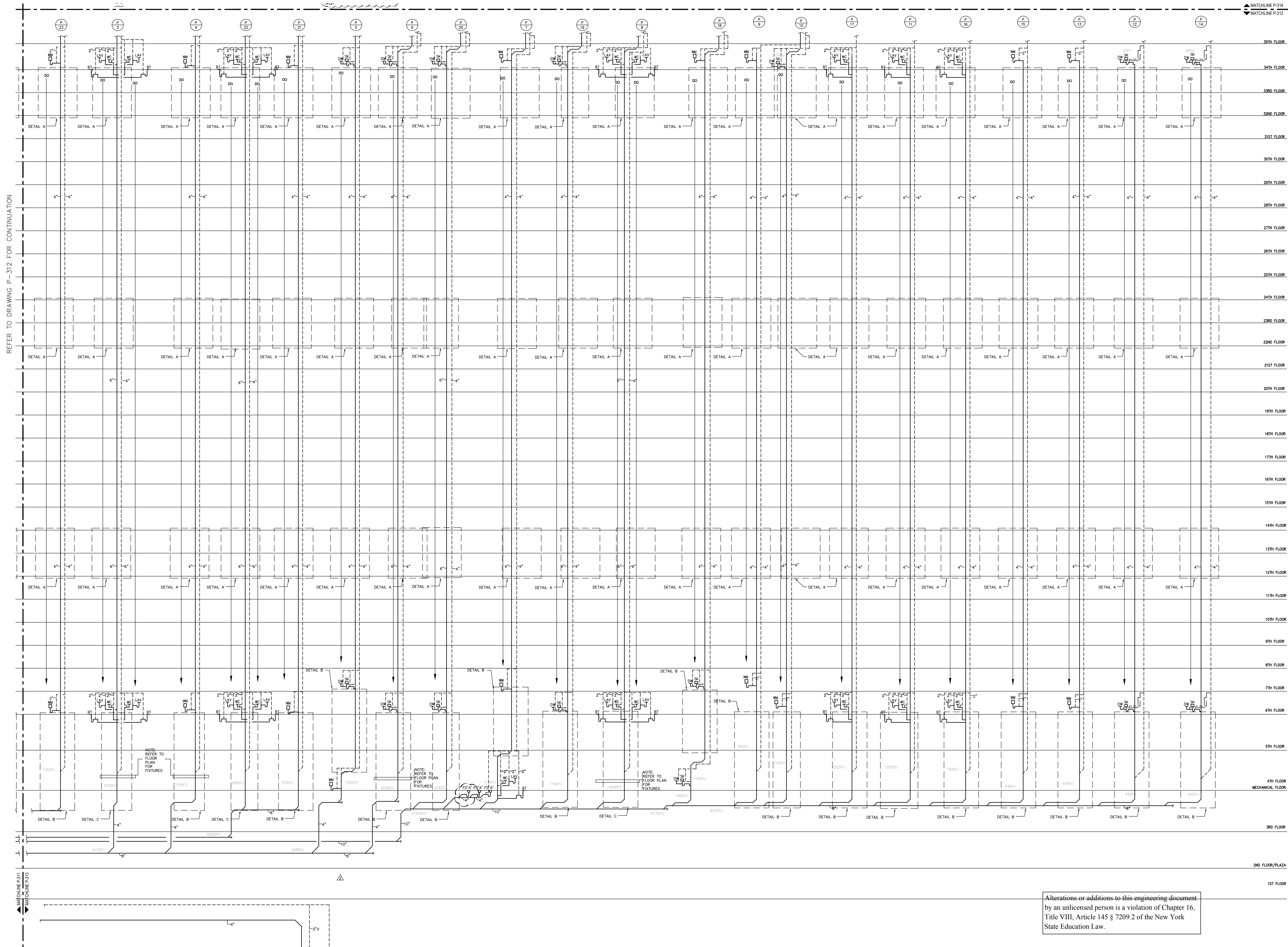
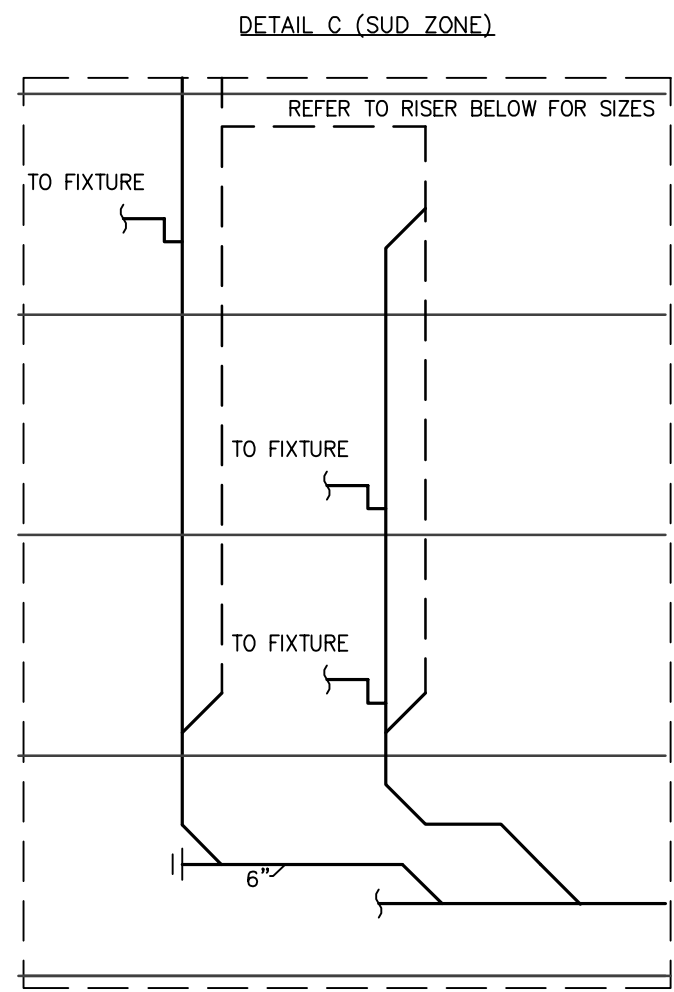
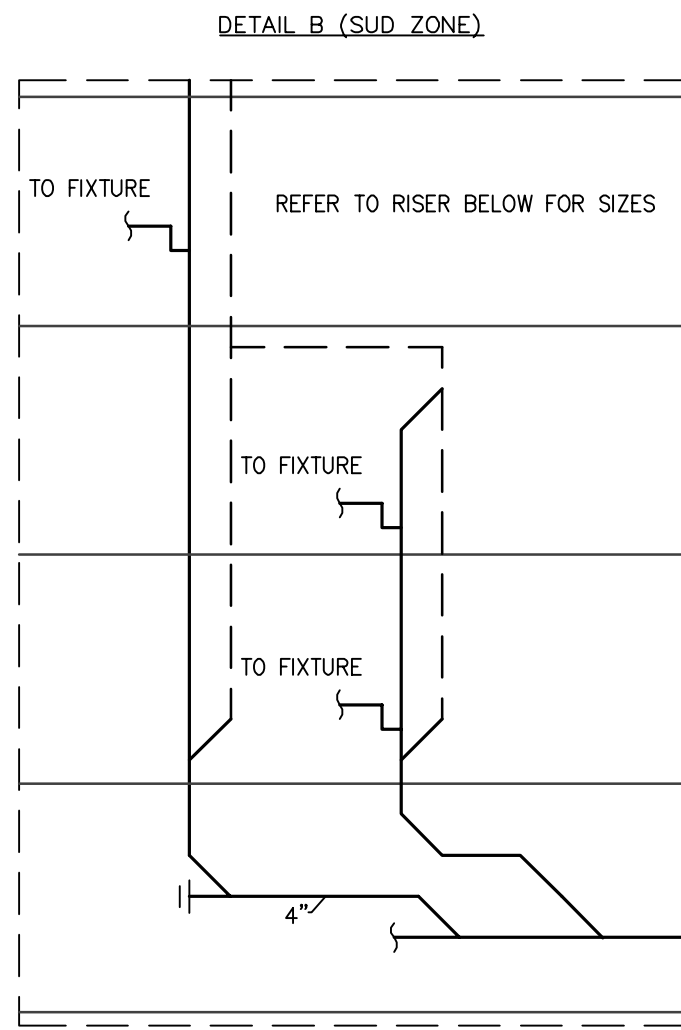
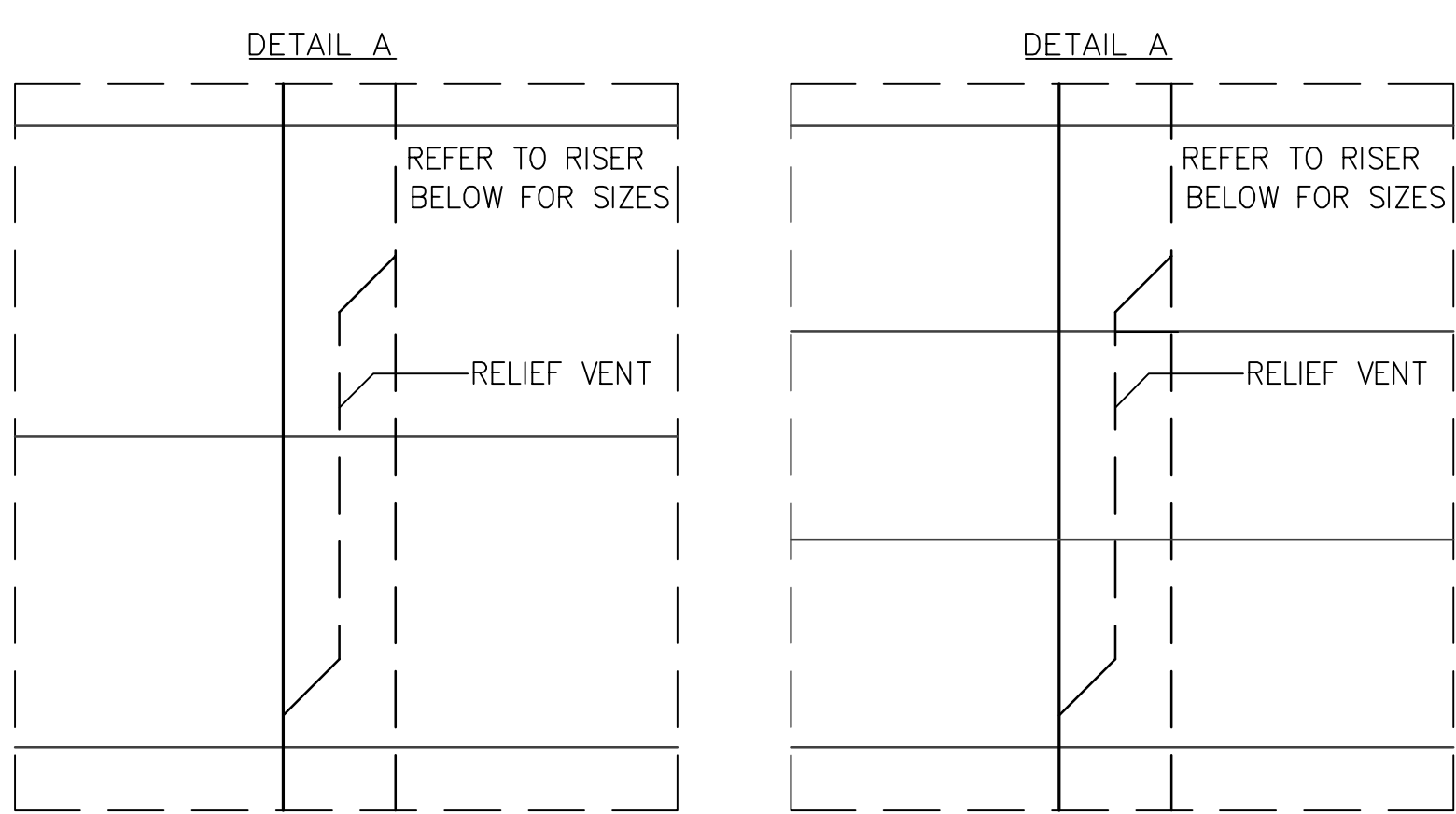
CHECKED BY: OS

DWG. No.:

P-119.01

SHEET No.: 20 of 31

FILE No.: I:\2018\2018-119564th Floor.dwg



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Manhattan West Southwest Residential Tower

PART OF THE MANHATTAN WEST MASTER PLAN
West 31st Street & Dyer Avenue
New York, NY.

OWNER/DEVELOPER:

Brookfield
BOP West 31st Street LLC
Brookfield Properties W 33rd CO.L.P.
Brookfield Place, 250 Vesey Street
New York, NY 10281

ARCHITECT:

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DESIGN ARCHITECT / MASTER PLAN ARCHITECT:

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(212) 299-9300

INTERIOR DESIGN:

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LANDSCAPE ARCHITECT:

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FIELD OPERATIONS**
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NEW YORK, NY 10018
TEL.: (212) 433-1430

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CONSTRUCTION MANAGER:

**HUNTER ROBERTS
CONSTRUCTION GROUP**
225 LIBERTY STREET, 6th FLOOR
NEW YORK, NY 10281
TEL.: (212) 321-6800

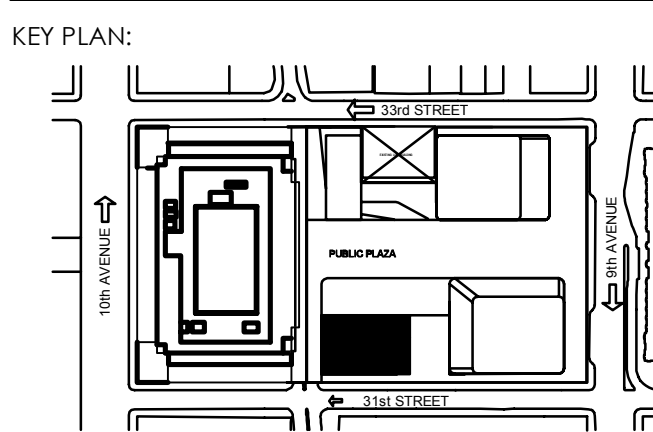
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2015-05-01	Revised: as
2014-12-15	Issued for GMP
2014-12-08	ISSUED FOR DOOR PLING
2014-09-09	As-built #1
2014-09-09	Issued for Construction
2014-08-01	FOR Construction Documents
2014-06-03	Issued for 50% Construction Documents
2014-05-12	Issued for DOB Filing
2014-03-14	Design Development
DATE:	REVISION:

D.O.B. NUMBER:
NB#

NORTH:

Scale: N.T.S.

0' 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' 20'



PROJECT:
**MANHATTAN WEST
NEW YORK, NEW YORK**

DRAWING TITLE:
**PLUMBING
SANITARY RISER DIAGRAM #3**

SEAL & SIGNATURE:

DATE: 01/21/14

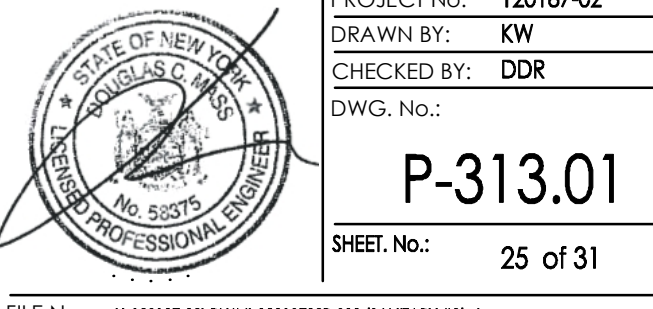
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DRAWN BY: RW

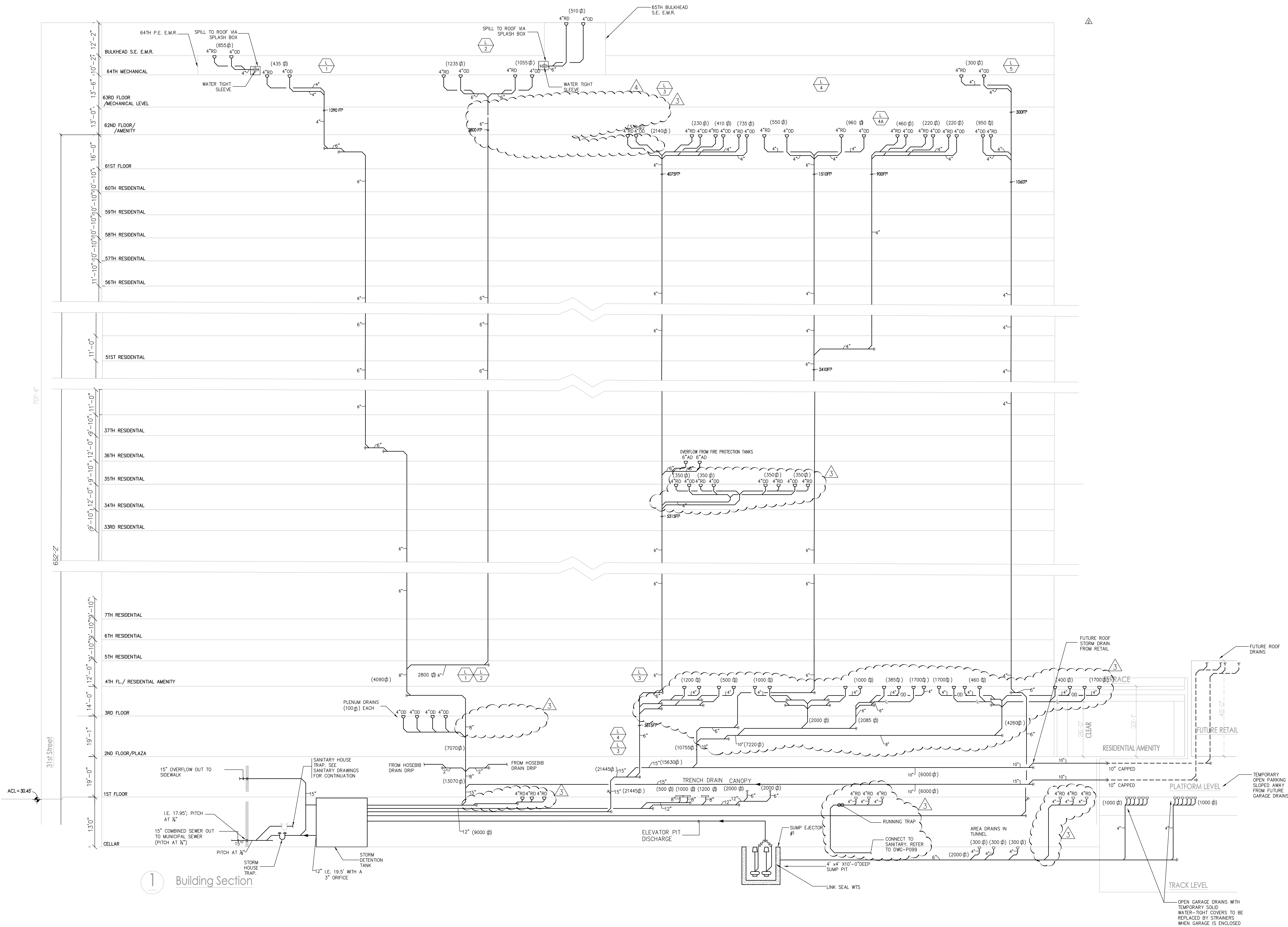
CHECKED BY: DOR

DWG. No.: **P-313.01**

SHEET No.: 25 of 31



FILE No.: P120187-02-PLUMBING SANITARY RISER DIAGRAM #3.dwg



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PROJECT

**Manhattan West
Southwest Residential
Tower**
PART OF THE MANHATTAN WEST MASTER PLAN
West 31st Street & Dyer Avenue
New York, NY.

OWNER/DEVELOPER

Brookfield
801 West 31st Street LLC
Brookfield Properties W 33rd CO.L.P.
Brookfield Place, 250 Vesey Street
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TEL.: (212) 321-6800

2015-11-12	ISSUED FOR DCB FILING
2015-09-18	ASB-050
2015-09-01	Submittal #2
2014-12-15	Issued for GMP
2014-12-08	ISSUED FOR DCB FILING
2014-10-09	Submittal #1
2014-09-09	Issued for Construction
2014-08-01	100% Construction Documents
2014-03-01	Issued for SDS Construction Documents
2014-02-12	Issued for DCB Filing
DATE	REVISION

D.C.B. NUMBER: **NB#**

NORTH

Scale: N.T.S.

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KEY PLAN:

PROJECT

**MANHATTAN WEST
NEW YORK, NEW YORK**

DRAWING TITLE

**PLUMBING
STORM RISER DIAGRAM
AND CLEAR WATER**

SEAL & SIGNATURE:

DATE: 01/21/14
PROJECT NO: 120187-02
DRAWN BY: LW
CHECKED BY: GS
DWG. NO.:
P-331.01
SHEET NO: 28 of 31

FILE NO: I:\20187-02\PLUM\12018702P-331 (STORM).dwg

PROJECT
**Manhattan West
Southwest Residential
Tower**
PART OF THE MANHATTAN WEST MASTER PLAN
West 31st Street & Dyer Avenue
New York, NY.

OWNER/DEVELOPER
Brookfield
80P West 31st Street LLC
Brookfield Properties W 33rd COLL.P.
Brookfield Place, 250 Vesey Street
New York, NY 10281

ARCHITECT
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FAX: (212) 370-1736

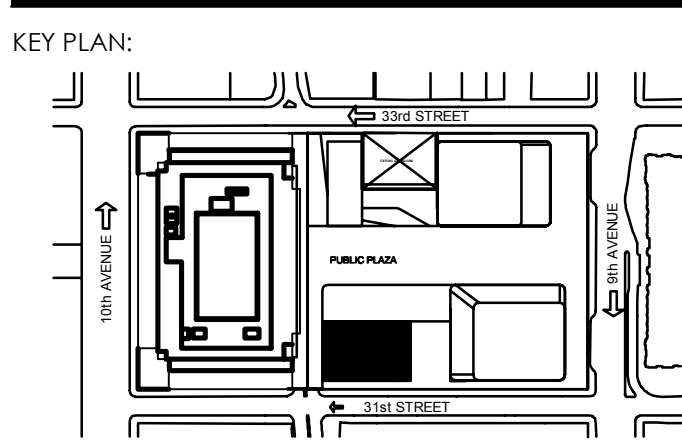
CIVIL ENGINEER
PHILIP HABIB & ASSOCIATES
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CONSTRUCTION GROUP**
225 LIBERTY STREET, 4TH FLOOR
NEW YORK, NY 10281
TEL: (212) 321-6800

2015-11-17 ISSUED FOR DCS PLNG
2015-09-02 Bldg-01
2014-12-15 ISSUED FOR GMP
2014-12-08 ISSUED FOR DCS PLNG
2014-10-09 Bldg-01
2014-09-09 Issued for Construction
2014-08-01 100% Construction Documents
2014-06-03 Issued for SDC Construction Documents
2014-05-12 Issued for DCS PLNG
2014-03-14 Design Development

DATE: REVISION:
TO: B. REVISION:
NB#
NOTES: Scale: NTS
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KEY PLAN:

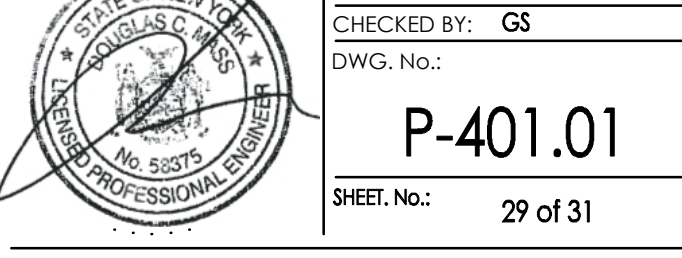


PROJECT
**MANHATTAN WEST
NEW YORK, NEW YORK**

DRAWING TITLE

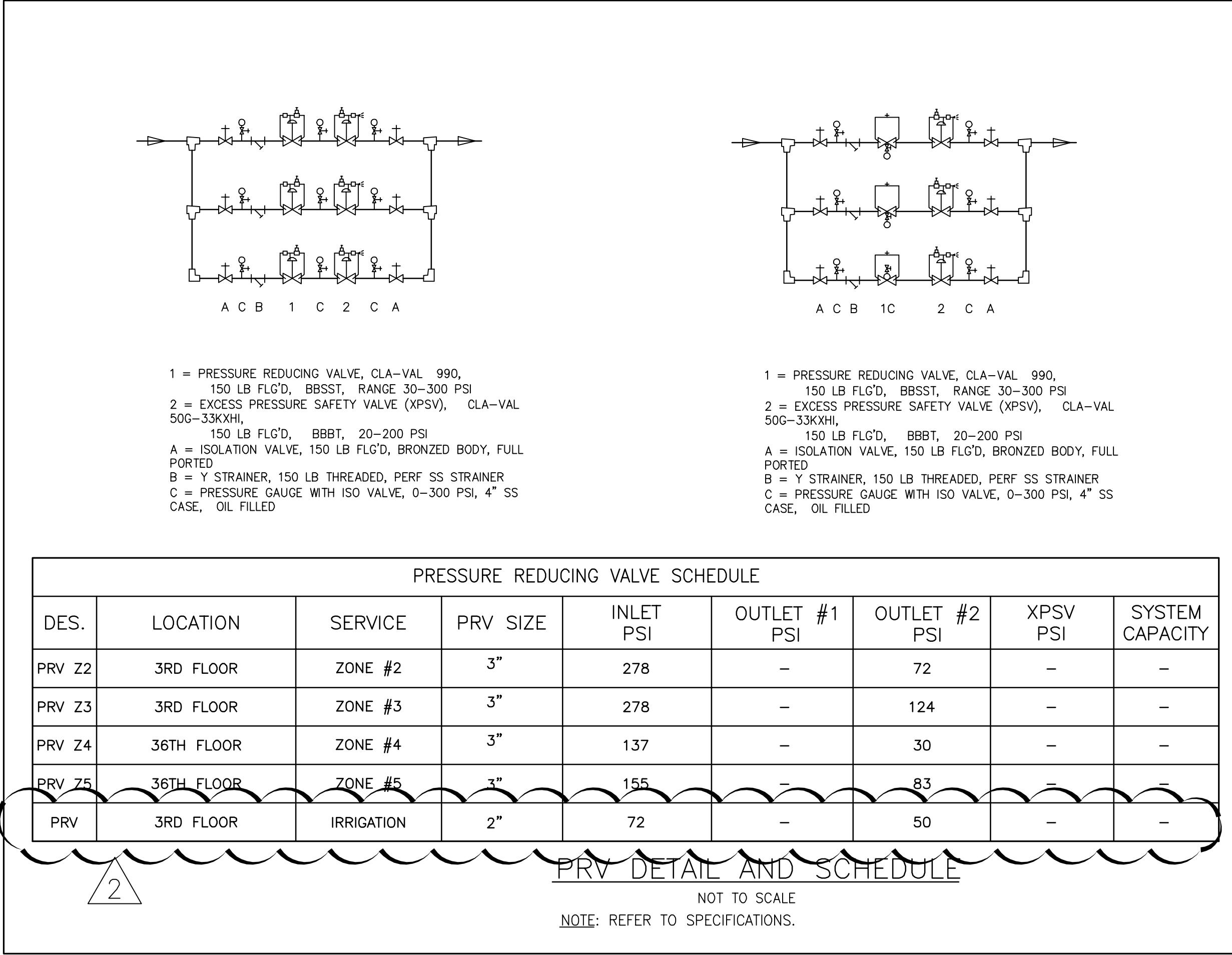
**PLUMBING
SCHEDULES**

SEAL & SIGNATURE: DATE: 02/17/2014
PROJECT NO.: 12018702
DRAWN BY: KM
CHECKED BY: GS
DWG. NO.:
P-401.01
SHEET NO.: 29 of 31



FILE NO: I:\20187-02\PLUM\2018702P-401\Schedules.dwg

PUMPS																	NOTES		
PUMP CO	ABBREV.																		
PEERLESS PUMP	P.P.																		
FLYGT	F																		
BELL & GOSSETT	B&G																		
SYNCRIFLOW	S																		
STANCOR	SC																		
• DESIGNATION/LOCATION																			
HP-1 TRIPLEX HOUSE PUMPS		1	133	690'	Peerless MSL050-4	3	-	-	175	1/2	1750	460	3	60	-	•	-	COMPLETE WITH SOFT STARTER - CELLAR PUMP ROOM	
BP-1 - ROOF DUPLEX BOOSTER SYSTEM		1	115	92'	Peerless C1020AM	1	•	-	175	1/2	1750	460	3	60	-	•	•	1 DUPLEX PUMP SYSTEM - BOILER ROOM	
EJ-1 DUPLEX EJECTORS		1	285	30'	FLYGT 4" NP3102	1	-	-	3	3	1690	460	3	60	-	•	•	COMPLETE WITH VALVE TRAIN ASSEMBLY DOUBLE CONTAINMENT/464A IMPELLER - CELLAR	
ELEVATOR SIMPLEX SUMP PUMP ESP-1		1	100	40'	STANCOR SE 200				3	3600	460	3	60	-	-	•	•	SEE PLAN FOR LOCATIONS - NON HYDRAULIC SUMP PUMP COMPLETE WITH FLOAT	
ELEVATOR SIMPLEX SUMP PUMP ESP-2		1	50	25'	STANCOR SE 100				1	3600	460	3	60	-	-	-	•	•	SEE PLAN FOR LOCATIONS - NON HYDRAULIC SUMP PUMP COMPLETE WITH FLOAT
ELEVATOR HYDRAULIC SUMP PUMP OIL MINDER ESP-3		1	50	40'	STANCOR SE 100				1	3500	460	3	60	-	-	-	•	•	SEE PLAN FOR LOCATIONS - COMPLETE WITH FLOAT
Q2-7 - ZONE #7 RE-CIRCULATION PUMP		4	25	30'	B&G SERIES 60-610S	1	-	-	175	1/2	1750	460	3	60	-	-	-	-	PROVIDE DISCONNECT SWITCH AND AQUASTAT - TWO PER HW HEATING SYSTEM, 63RD FL
Q2-6 - ZONE #6 RE-CIRCULATION PUMP		4	25	30'	B&G SERIES 60-610S	1	-	-	175	1/2	1750	460	3	60	-	-	-	-	PROVIDE DISCONNECT SWITCH AND AQUASTAT - TWO PER HW HEATING SYSTEM, 63RD FL
Q2-5 - ZONE #5 RE-CIRCULATION PUMP		4	30	30'	B&G SERIES 60-610S	1	-	-	175	1/2	1750	460	3	60	-	-	-	-	PROVIDE DISCONNECT SWITCH AND AQUASTAT - TWO PER HW HEATING SYSTEM, 36TH FL
Q2-4 - ZONE #4 RE-CIRCULATION PUMP		4	25	30'	B&G SERIES 60-610S	1	-	-	175	1/2	1750	460	3	60	-	-	-	-	PROVIDE DISCONNECT SWITCH AND AQUASTAT - TWO PER HW HEATING SYSTEM, 36TH FL
Q2-3 - ZONE #3 RE-CIRCULATION PUMP		4	25	30'	B&G SERIES 60-610S	1	-	-	175	1/2	1750	460	3	60	-	-	-	-	PROVIDE DISCONNECT SWITCH AND AQUASTAT - TWO PER HW HEATING SYSTEM, 3RD FL
Q2-2 - ZONE #2 RE-CIRCULATION PUMP		4	30	30'	B&G SERIES 60-610S	1	-	-	175	1/2	1750	460	3	60	-	-	-	-	PROVIDE DISCONNECT SWITCH AND AQUASTAT - TWO PER HW HEATING SYSTEM, 3RD FL
Q2-1 - ZONE #1 RE-CIRCULATION PUMP		4	25	30'	B&G SERIES 60-610S	1	-	-	175	1/2	1750	460	3	60	-	-	-	-	PROVIDE DISCONNECT SWITCH AND AQUASTAT - TWO PER HW HEATING SYSTEM-CELLAR
SP-1 -DUPLEX SUMP PUMP		1	135	30'	FLYGT 3" DP3068-471				3.2 EACH	1690	460	3	60	-	0-50	•	•	COMPLETE WITH VALVE TRAIN ASSEMBLY DOUBLE CONTAINMENT/471 IMPELLER	
EJ-2 -EJECTOR PUMP		1	135	30'	FLYGT 3" DP3068-471				3.2 EACH	1690	460	3	60	-	0-50	•	•	COMPLETE WITH VALVE TRAIN ASSEMBLY DOUBLE CONTAINMENT/471 IMPELLER	



TANK SCHEDULE					
TANK TYPE SERVICE	LOCATION	CAPACITY GALLONS	INSIDE DIMENSIONS, FEET		
			LENGTH	WIDTH OR DIA.	HEIGHT
COMBINED GRAVITY SUPPLY FIRE/DOMESTIC TANK	64TH FL. - ROOF	27,000	-	15'-6" DIAMETER	11' 9'-6" USABLE
STORM WATER DETENTION TANK	CELLAR	85,000			
			MANUFACTURER		
			NOTES		
			(2) WOODEN TANKS REQUIRED- 13,500 EACH		
			CAST IN PLACE		
			CONCRETE TANK ONE SECTION BY GC		

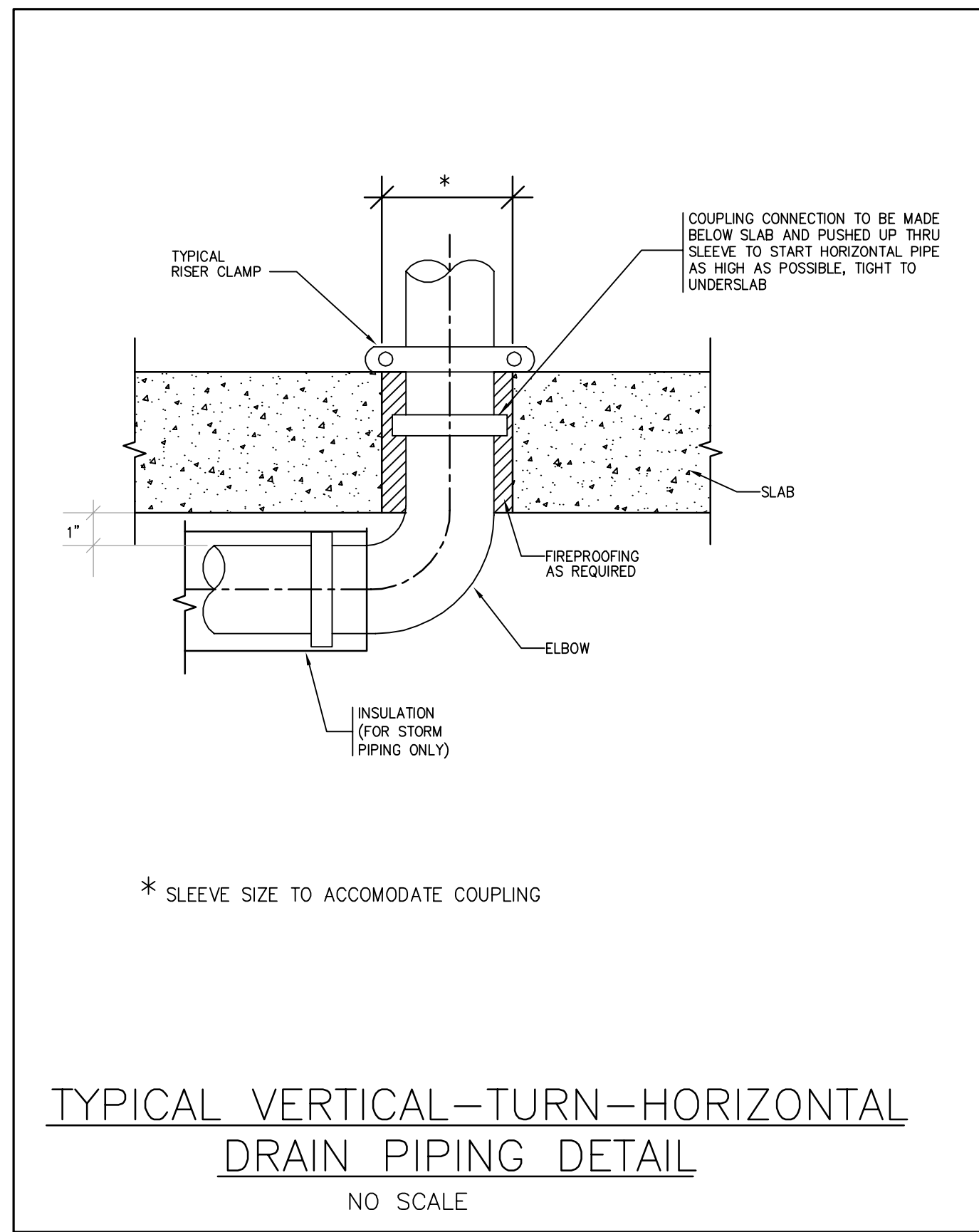
		DRAINS																				REMARKS								
		BODY										STRAINER																		
DESIGNATION	ZURN SERIES No.	CAST IRON	GALVANIZED	ALL BRONZE	SECONDARY CLAMP	CLAMPING DEVICE	BACK WATER VALVE	ROOF SUMP RECEIVER	INSIDE CAULK	STAINLESS STEEL	DUCTILE IRON	GALVANIZED	ALL BRONZE	NICKEL BRONZE	CHROME PLATED	SEDIMENT BUCKET	SEMI-FLANGE STRAINER	POLISHED FINISH	SATIN FINISH	TRACTOR GRATE	S.S. MESH SCREEN	FUNNEL TOP	FLAT TOP	RAISED LIP	EXTENSION	SECURED GRATE	ANGLE GRATE	CENTER HOLE	3/4" GRATE	LOCATION
FD'A	Z532	•									•											•								MECHANICAL ROOMS
FD'B	ZN415B-VP	•									•											•								FINISHED AREA, TOILET & SHOWER RMS
FD'C	Z415E	•									•																			CELLAR MECH ROOM
FD'F	Z534-HP-Y-C	•									•																			GARAGE DRAIN
RD'A	Z2100-85	•									•																			ROOF GENERAL UNDER PAVERS CAST IN CONCRETE
RD'A	Z2100-E-W3	•									•																			ROOF OVERFLOW DRAIN (INTERNAL STANDPIPE)
FS'A	Z1900	•									•																			PUBLIC WASHING RECEPTOR - ACID RESISTANT
FS'B	Z1750	•									•																			LAUNDRY DRAIN - STAINLESS STEEL
RD'B	Z-161-45	•									•																			CANOPY DRAIN
RD'C	ZN150-VP-Y	•									•																			PLAZA DRAIN/AREA DRAIN - 14"SO HEEL PROOF GRATE
TD'A	Z882-1/4-GHPD	•									•																			PARKING GARAGE TRENCH DRAIN
TD'B	HR SMITH 9818	•									•																			GROUND FLOOR TRENCH DRAIN AS DETERMINED BY ARCHITECT
RD'D	Z-125-90	•									•																			LAUNDRY ROOM (ADD RESISTANT COATING WITH MESH SCREEN)
FD'G	Z-1185-94	•									•																			
FD'H		•									•																			

DOMESTIC WATER HEATERS																	
HTF. MANUF.	ABBREVI.	NO. REQUIRED	MANUFACTURER & MODEL NO.	TANK DATA		ELECTRIC DATA			ELEMENT DATA		GAS DATA		DOMESTIC HW TEMP. OUT	NOTES			
PVI INDUSTRIES EEMAX LOCHINVAR PATTERSON-KELLEY	PVI E L PK			STORAGE CAP. GALS. EACH	PRESSURE RATING	RECOVERY PER HEATER (GPM/HEATER) (AVAILABLE GPM/HEATER)	TOTAL REQ. GPM/HEATER	MOTOR HP	VOLTS	PHASE	UPPER ELEMENT	LOWER ELEMENT			TOTAL K.W.	VOLTS	PHASE
DESIGNATION/LOCATION																	
DWH 1		4	HUBBELL HSE	40				460	3	60						140°	CELLAR
DWH 2	LOW ZONE #1 - FLOOR																
DWH 2	LOW ZONE #2 - 3RD FLOOR	3	AERCO INN 1350	20	160	26	16	120	1	60				4"	2400	140°	WITH WHM SEQUENCER WITH 1000 GAL STORAGE TANK
DWH 3	MID ZONE #3 - 3RD FLOOR	2	AERCO INN 1350	20	160	26	17	120	1	60				4"	1700	140°	WITH WHM SEQUENCER WITH 1000 GAL STORAGE TANK
DWH 4	MID ZONE #4 - 36TH FLOOR	2	AERCO INN 1350	20	160	26	21	120	1	60				4"	2100	140°	WITH WHM SEQUENCER
DWH 5	MID ZONE #5 - 36TH FLOOR	2	AERCO INN 1350	20	160	26	20	120	1	60				4"	2000	140°	WITH WHM SEQUENCER
DWH 6	HIGH ZONE #6 - 63RD FL ROOF MECH. ROOM	2	AERCO INN 1350	20	160	26	15	120	1	60				4"	1500	140°	WITH WHM SEQUENCER
DWH 7	HIGH ZONE #7 - 63RD FL ROOF MECH. ROOM	2	AERCO INN 1350	20	160	26	18	120	1	60				4"	1800	140°	WITH WHM SEQUENCER
DOMESTIC HOUSE TANK HEATING ELEMENT		2	CHROMALOX TLS					120	1	60		12					12 KW EACH, AT 64TH FL
DWH 8		3	EEMAX					120	1	60		1					CELLAR, 1ST FL, 2ND FL

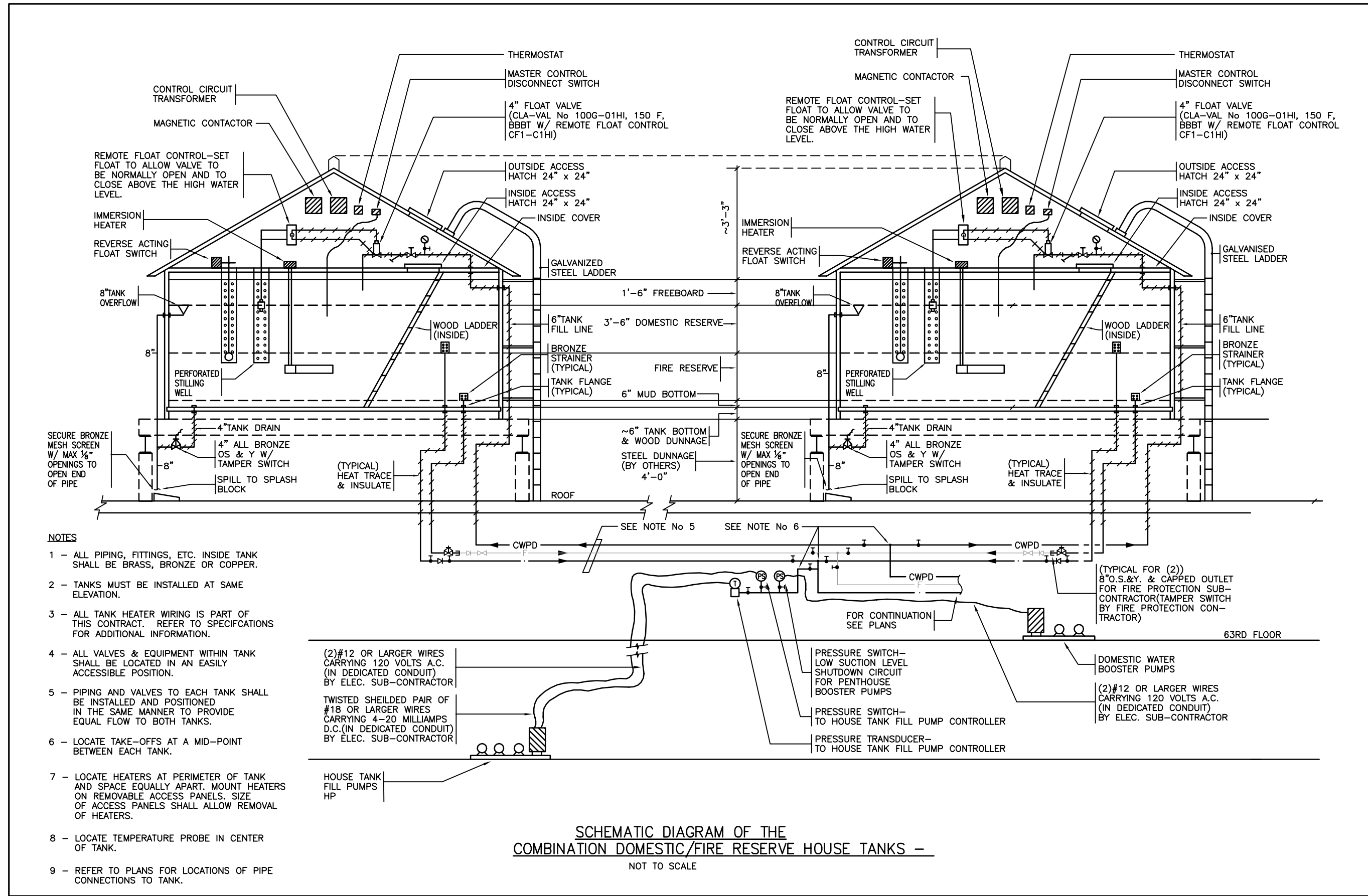
NOTE: ALL DOMESTIC HOT WATER HEATERS DWH1 THRU DWH7 SHALL BE PROVIDED WITH THERMOSTATIC MIXING VALVES

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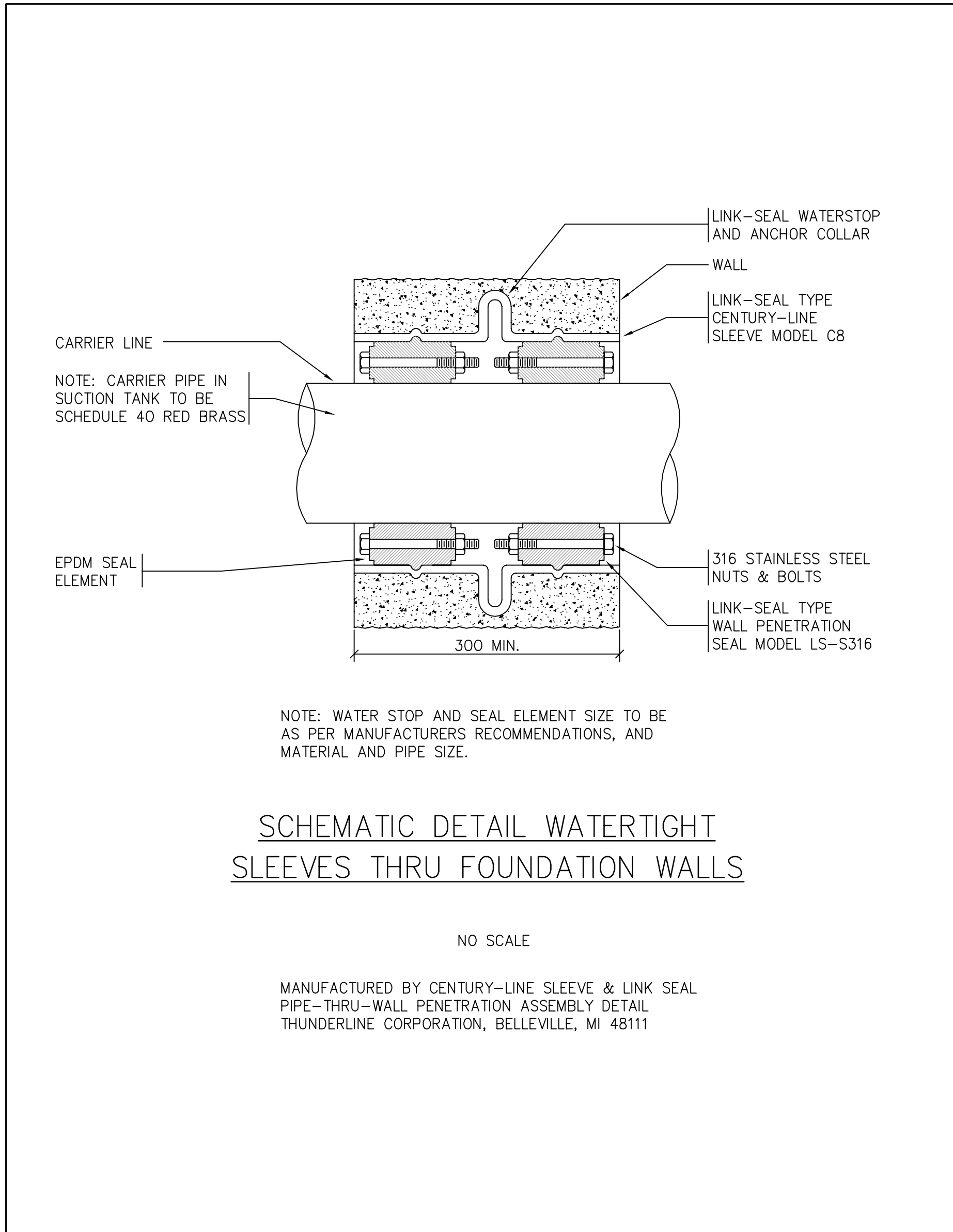
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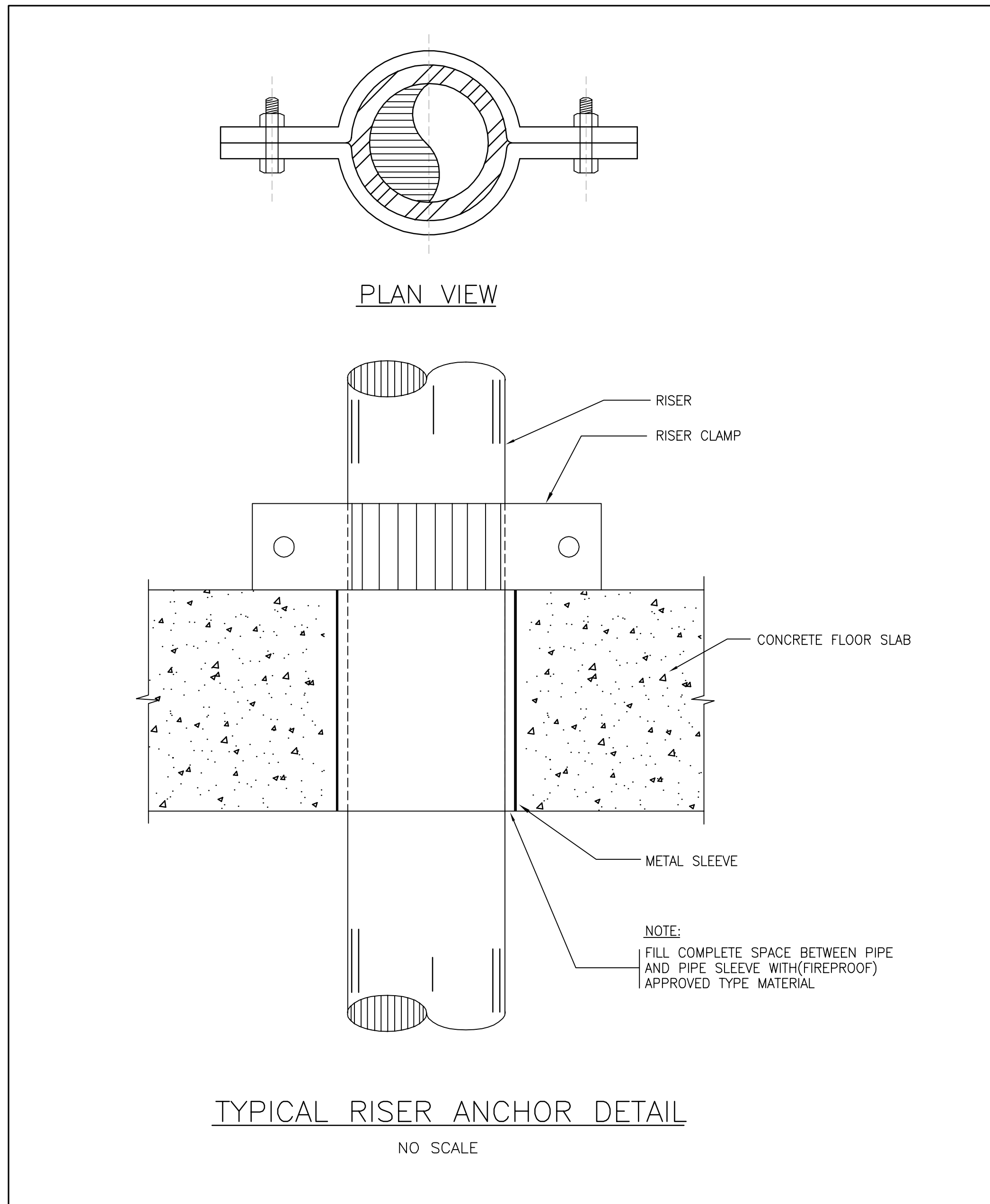
TYPICAL VERTICAL-TURN-HORIZONTAL DRAIN PIPING DETAIL
NO SCALE



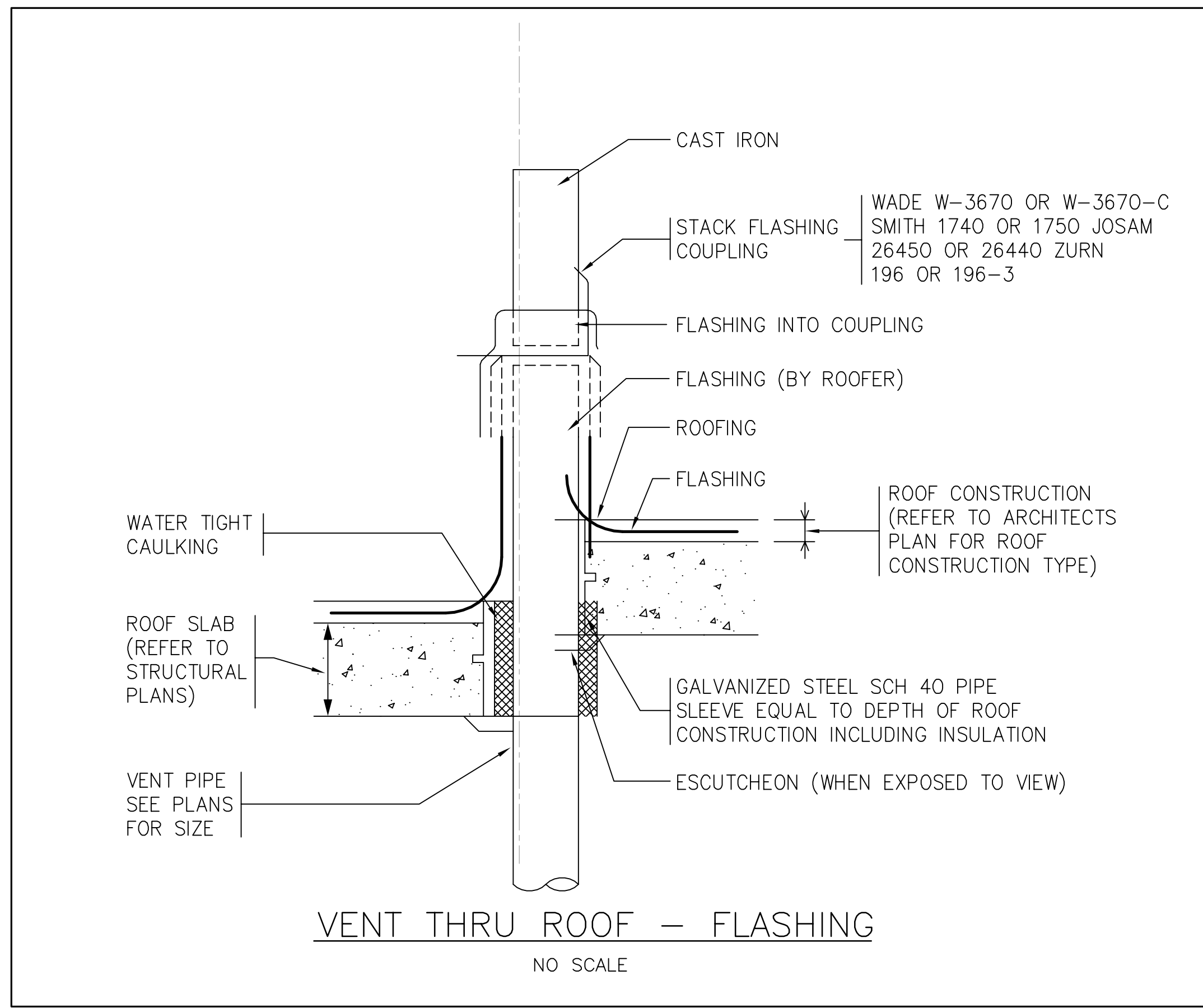
SCHEMATIC DIAGRAM OF THE COMBINATION DOMESTIC/FIRE RESERVE HOUSE TANKS -
NOT TO SCALE



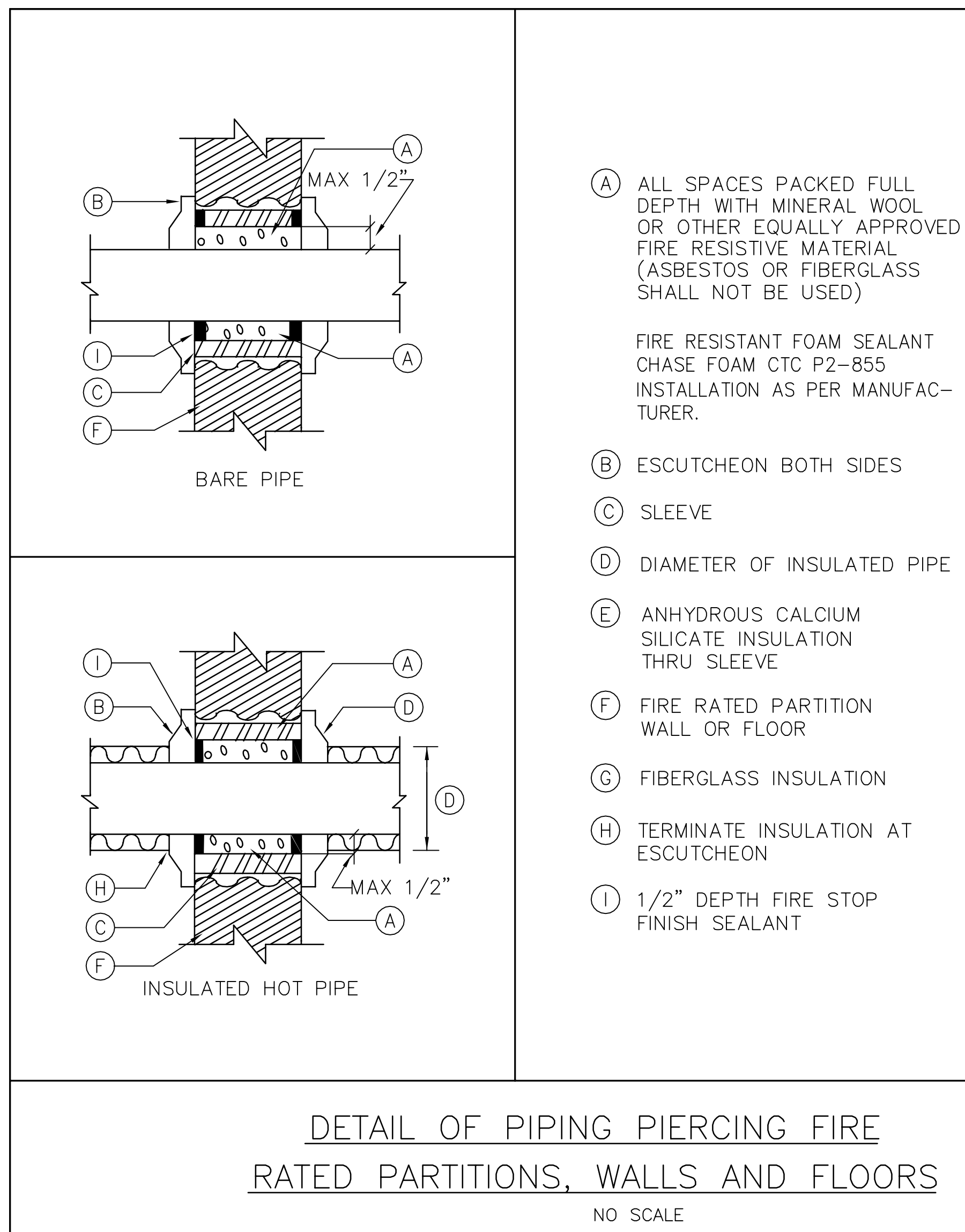
SCHEMATIC DETAIL WATERTIGHT SLEEVES THRU FOUNDATION WALLS
NO SCALE



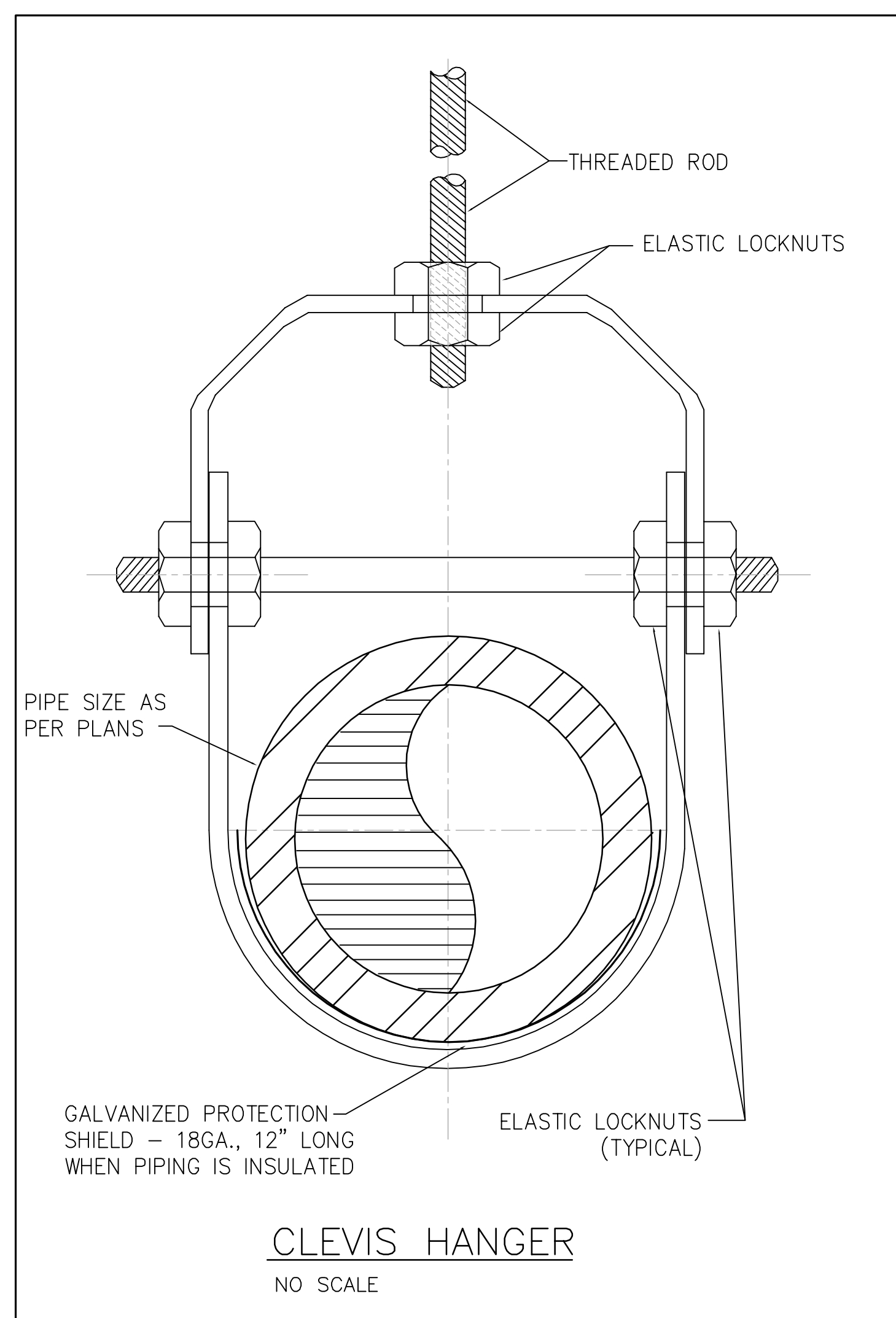
TYPICAL RISER ANCHOR DETAIL
NO SCALE



VENT THRU ROOF - FLASHING
NO SCALE



DETAIL OF PIPING PIERCING FIRE RATED PARTITIONS, WALLS AND FLOORS
NO SCALE



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PROJECT

**Manhattan West
Southwest Residential
Tower**
PART OF THE MANHATTAN WEST MASTER PLAN
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New York, NY.

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2016.11.02 ISSUED FOR DOB FILING

2015.05.27 Bulletin #1

2014.12.14 Issued for CLAP

2014.12.08 ISSUED FOR DOB FILING

2014.10.09 Bulletin #1

2014.09.09 Issued for Construction

2014.08.01 JRN Construction Documents

2014.04.03 Issued for DOE Construction Documents

2014.03.12 Issued for DOB Filing

2014.03.14 Design Development

DATE: REVISION:

DOB NUMBER:

NB#

NOTES:

Scale: NTS

0 4 8 12 20

KEY PLAN:

MANHATTAN WEST
NEW YORK, NEW YORK

PLUMBING
DETAIL SHEET #2

SEAL & SIGNATURE:

DATE: 02/17/2014

PROJECT NO: 120187.02

DRAWN BY: KM

CHECKED BY: GS

DWG. NO.:

P-502.01

SHEET NO: 31 of 31

FILE NO: I:\2018\07\PLUM\20180702P-502.dwg