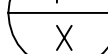






NOTE: THE KEY OF SYMBOLS INDICATED IS FOR CONVENIENCE ONLY AND ITEMS INDICATED ARE NOT NECESSARILY WITHIN THE SCOPE OF THE WORK.

STACK & RISER SYMBOLS		P.C. PLUG COCK	
	SOIL WASTE & VENT STACKS & WATER RISERS	P.O.	PLUGGED OUTLET
	STORM LEADER	R.P.B. F.P.	REDUCED PRESSURE BACKFLOW PREVENTER
	GAS RISER	R.D.	ROOF DRAIN
	RETAIL GAS RISER	R.T.	RUNNING TRAP
	FIRE STANDPIPE RISER	R.C.V.	RISER CONTROL VALVE
(XXX #)	STORM DRAINAGE AREA	S.P.O.	SOIL PLUGGED OUTLET
[XXX #]	VERTICAL WALL ALLOWANCE STORM DRAINAGE AREA	S.H.	SHOWER HEAD
(XXX GPM)	CONTROL FLOW DRAINAGE DRAIN DISCHARGE	SH - SHWR.	SHOWER
WTS	WATER TIGHT SLEEVE	SK.	SINK
		S.S.	SERVICE SINK

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.


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.

3. 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.

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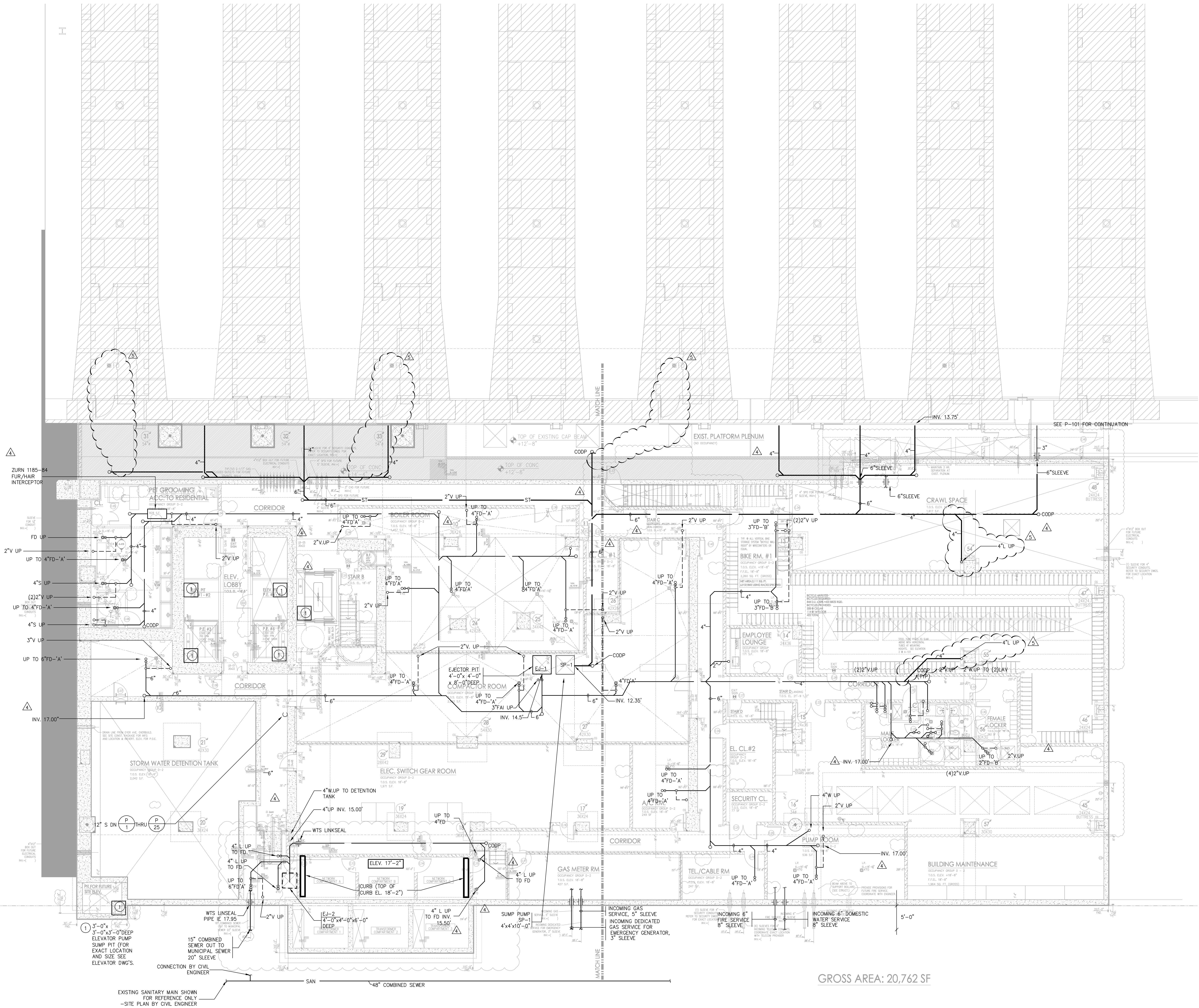
Damian Titus

Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 01/22/2016

SEAL & SIGNATURE: 

DATE:	12/06/2013
PROJECT No:	120187.02
DRAWN BY:	KW
CHECKED BY:	GS
DWG. No.:	D 001.01

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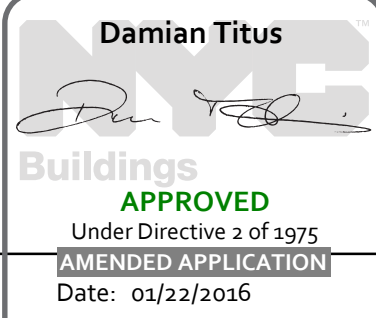


UNDER SLAB PLAN

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

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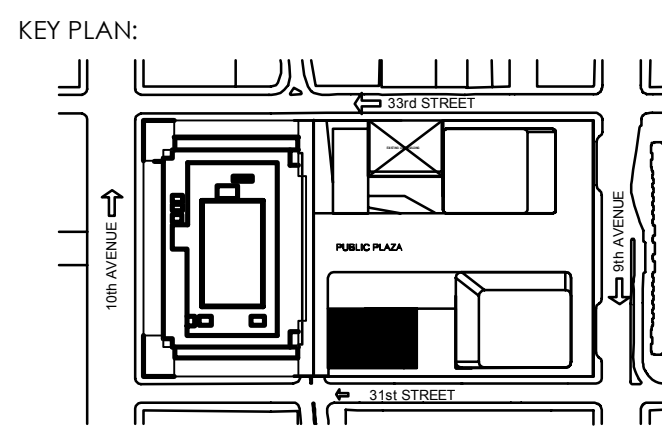
GEOTECHNICAL ENGINEER:

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FAX.: (917) 339-9400

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HUNTER ROBERTS
CONSTRUCTION GROUP
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2015-11-12 ISSUED FOR DOB PERMS
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2014-10-09 Bulletin #1
2014-09-09 ISSUED FOR Construction
2014-08-01 PER 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.C.B. NUMBER:
NB#
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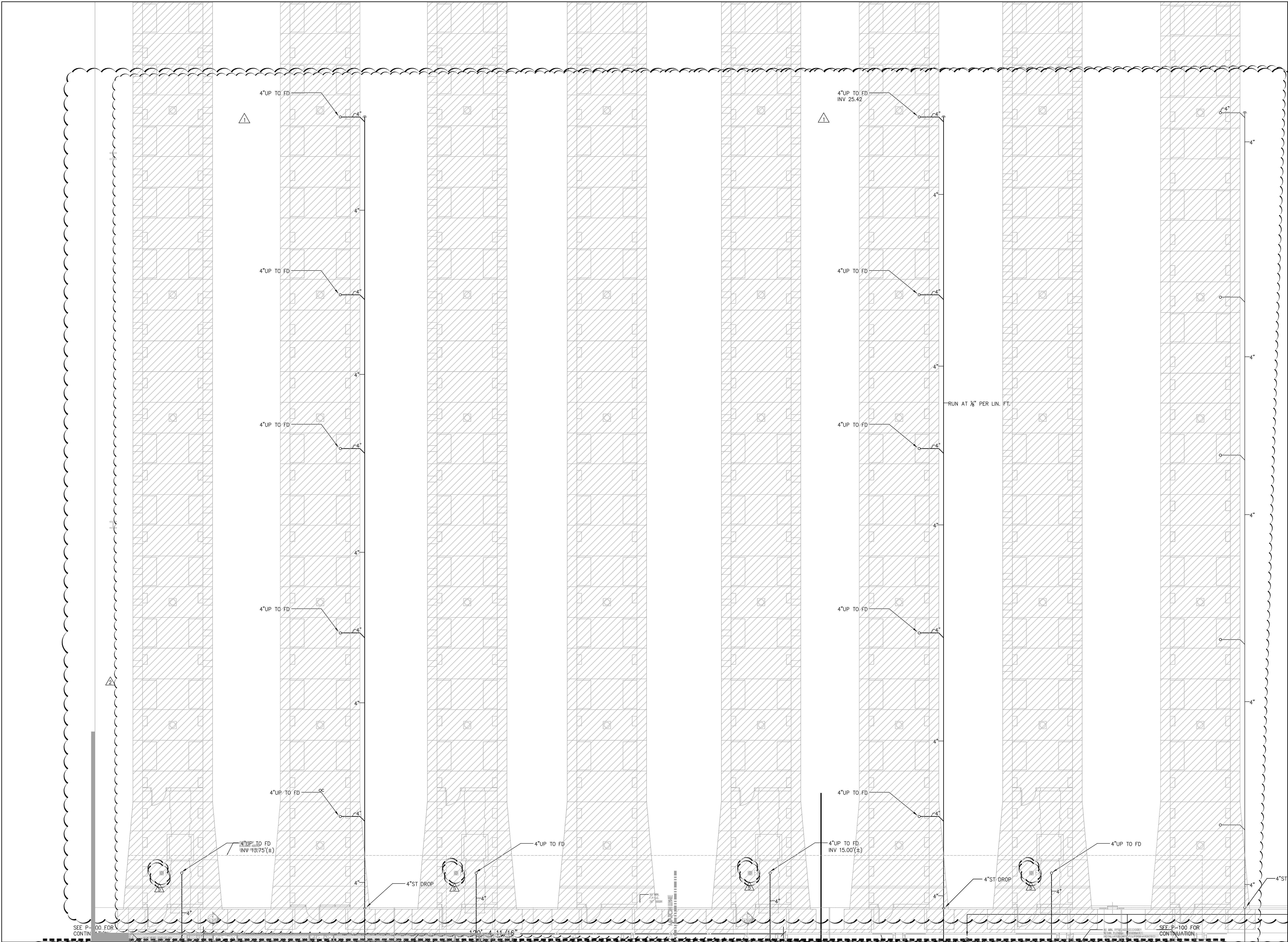
PROJECT:
MANHATTAN WEST
NEW YORK, NEW YORK

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.:
P-099.01
SHEET No.: 2 of 31

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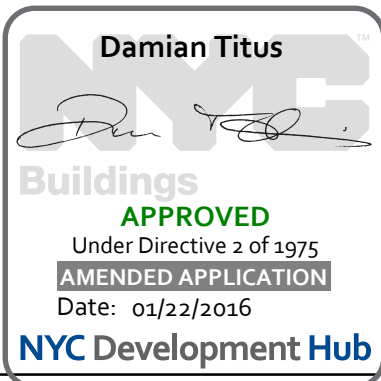
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CELLAR FLOOR PLAN - NORTH
SC: 1/8" = 1'-0"

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Southwest Residential
Tower**
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New York, NY.

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80P West 31st Street LLC
Brookfield Properties W 33rd CO.L.P.
Brookfield Place, 250 Vesey Street
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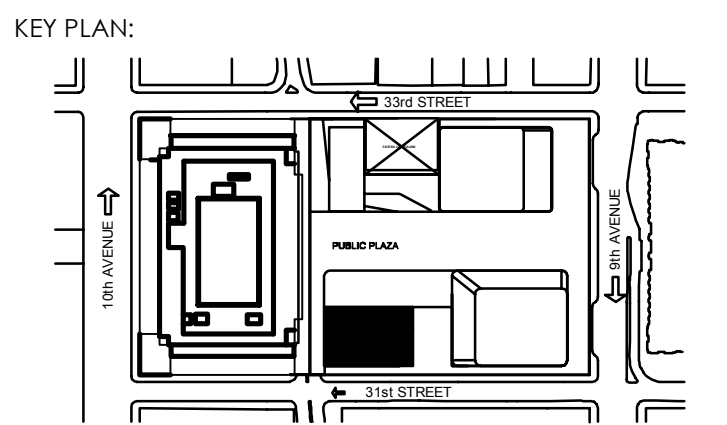
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2013-11-12	ISSUED FOR DCR FILING
2015-05-01	Revised #5
2016-12-15	Issued for CDP
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2016-10-29	Revised #1
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2016-08-01	R05 Construction Documents
2016-06-03	Issued for S05 Construction Documents
2016-05-12	Issued for DCR Filing
2016-03-14	Design Development

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

NORTH
Scale: 1/8" = 1'-0"
0 4 8 12 16 20



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

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

SEAL & SIGNATURE:
DATE: 02/17/2014
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

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	2014-12-08 ISSUED FOR DOB FILING
	2014-10-09 Bulletin #1
	2014-09-09 Issued for Construction
	2014-08-01 90% 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: 1/8" = 1'-0"



KEY PLAN:


PROJECT: _____

MANHATTAN WEST
NEW YORK , NEW YORK


DRAWING TITLE:

PLUMBING
1ST FLOOR PLAN - SOUTH

SEAL & SIGNATURE: _____ DATE: 01/21/14

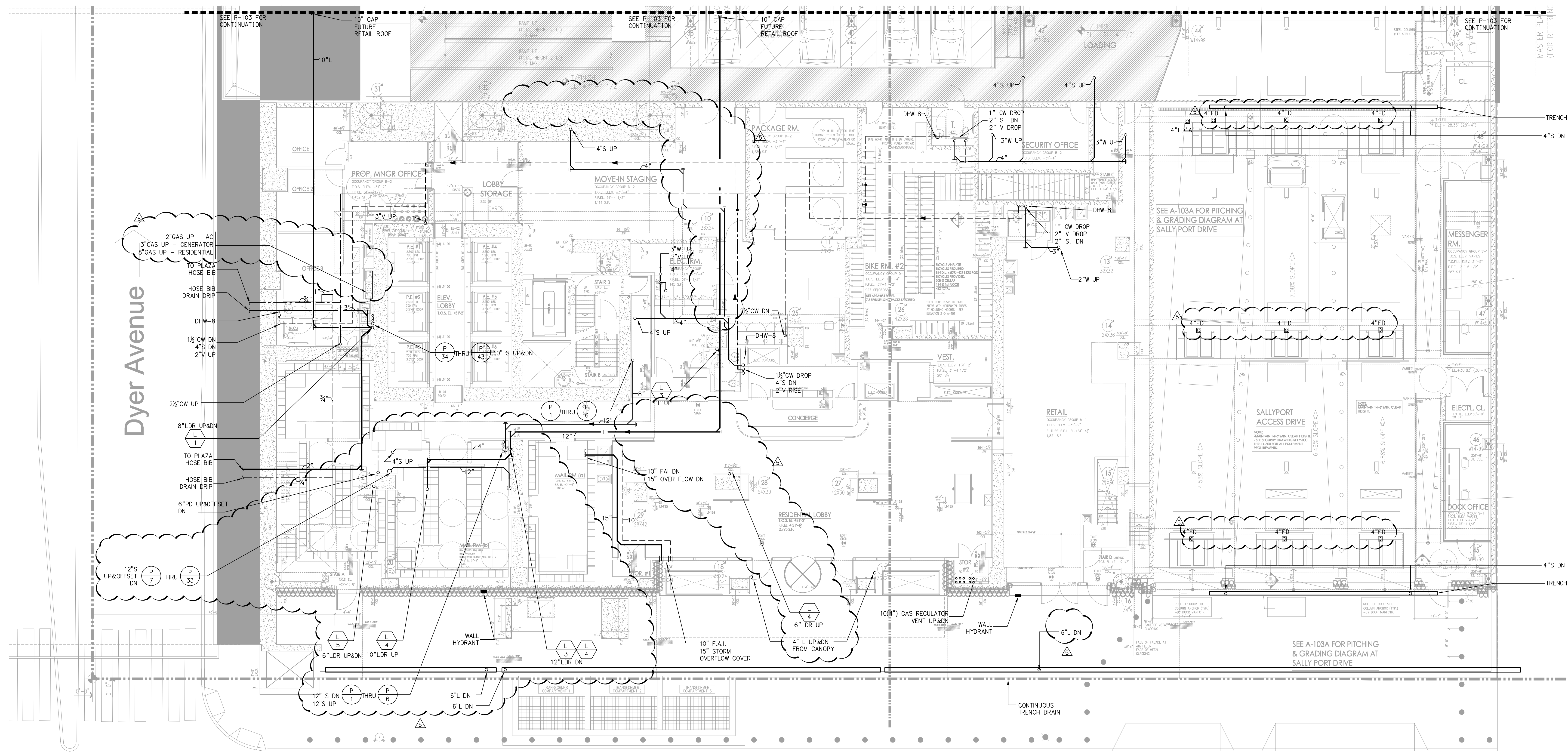


PROJECT No:	120187-02
DRAWN BY:	KW
CHECKED BY:	GS



DWG. NO.: **P-102.01**

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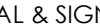
1ST FLOOR PLAN - SOUTH


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

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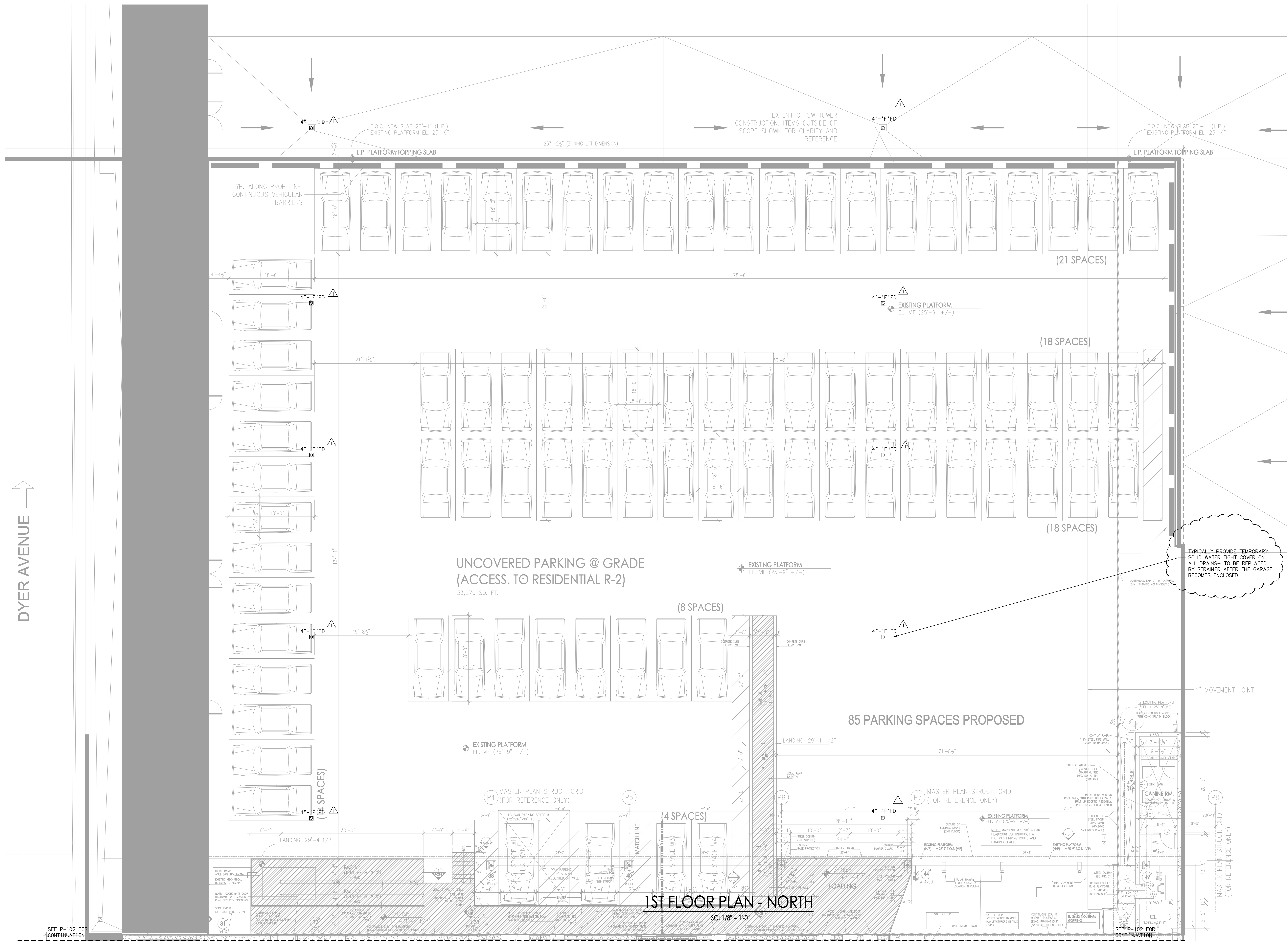
Damian Titus

Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 01/22/2016

SEAL & SIGNATURE:	DATE: 01/21/14
	PROJECT No: 120187-02
	DRAWN BY: KW
	CHECKED BY: GS



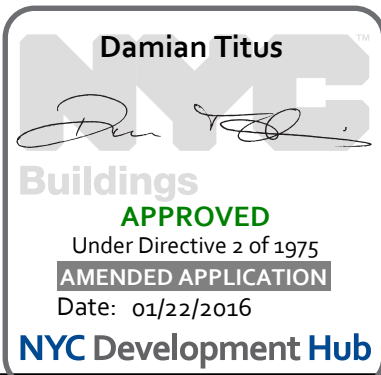
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Manhattan West Southwest Residential Tower
PART OF THE MANHATTAN WEST MASTER PLAN
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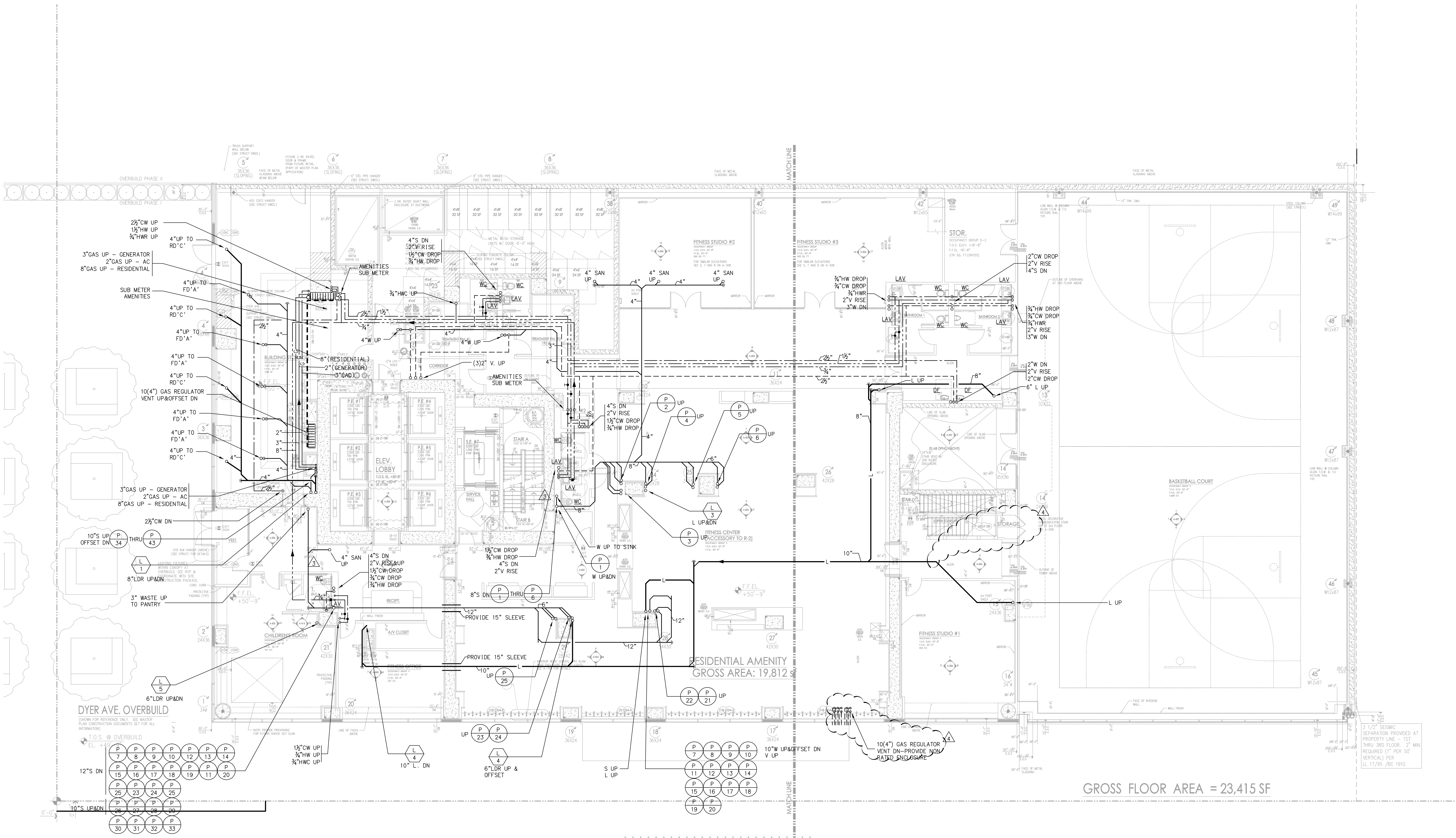
CIVIL ENGINEER:
PHILIP HABIB & ASSOCIATES
102 MADISON AVENUE, 11TH FL.
NEW YORK, NY 10016
TEL.: (212) 929-5656
FAX.: (212) 929-5605

GEOTECHNICAL ENGINEER:
MUESER RUTLEDGE CONSULTING ENGINEERS
225 WEST 34TH STREET
NEW YORK, NY 10122
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) 681-6800

2015.11.12 ISSUED FOR DCR FILING
2015.05.01 Bulletin #5
2016.12.15 Issued for GMP
2014.12.08 ISSUED FOR DCR FILING
2014.10.09 Bulletin #1
2014.09.09 Issued for Construction
2014.08.01 New Construction Documents
2014.04.03 Issued for DCR Construction Documents
2014.03.12 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: TW
CHECKED BY: GS
DWG. NO.:
P-103.01
SHEET NO.: 6 of 31
FILE NO.: 1-120187-02-PLUM\12018702P-103 (1st floor NORTH).dwg

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PLOTTED BY: MOLINA, ISRAEL

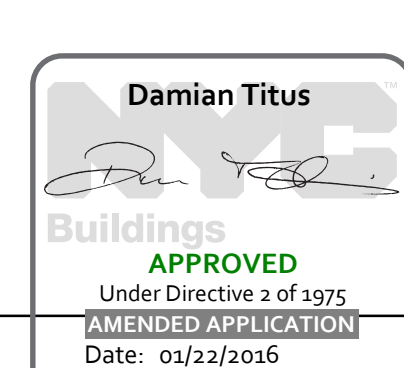


West 31st Street
(60' WIDE R.O.W.)

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

STRUCTURAL ENGINEER:

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ENGINEERS, P.L.L.C.
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NEW YORK, NY 10011
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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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VIRIDIAN ENERGY & ENVIRONMENTAL
50 WASHINGTON STREET
NORWALK, CT 06854
TEL: (203) 299-1411
FAX: (203) 299-1656

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LIVINGSTON, NJ 07039
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TEL: (212) 321-6800

2015-11-12 ISSUED FOR DOB FILING

2015-05-01: Submittal #5

2015-02-11: Add 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

2014-08-01: 90% Construction Documents

2014-06-03: Issued for 95% Construction Documents

2014-05-12: Issued for DOB Filing

DATE: REVISION:

D.O.B. NUMBER:

2 1/2" SEISMIC
SEPARATION PROVIDED AT
PROPERTY LINE - 15'
THRU 3RD FLOOR - 2' MIN.
REQUIRED (1" FOR 30'
VERTICAL) PER
LL 1778 / BC 1010.

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

20'

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

DRAWN BY: RW

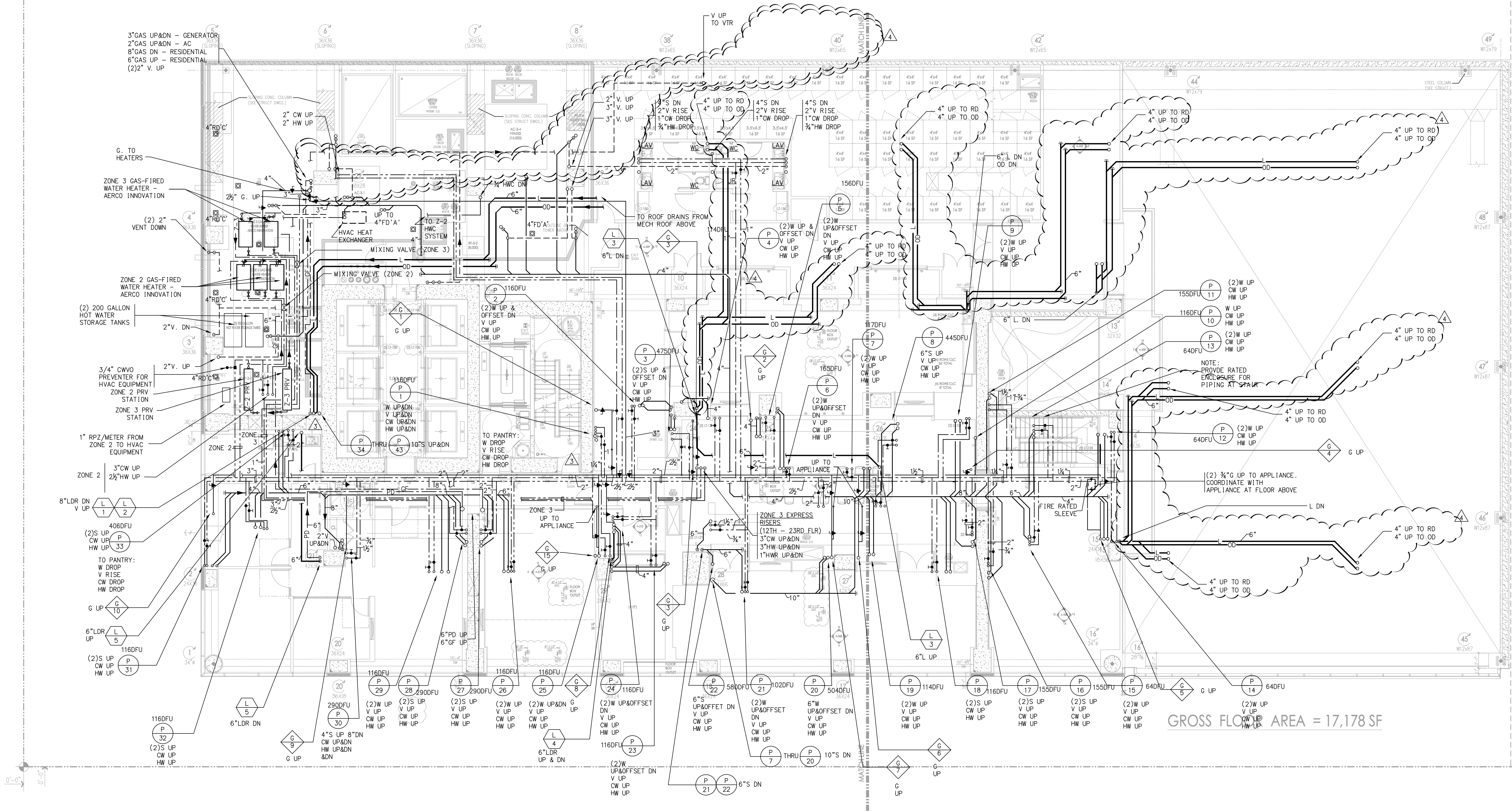
CHECKED BY: GS

DWG. No.:

P-104.01

SHEET No.: 7 of 31

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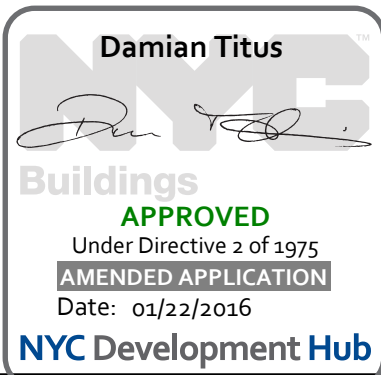


3RD FLOOR PLAN

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

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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
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FAX: (212) 979-8387

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(212) 298-9300

INTERIOR DESIGN:

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NEW YORK, NY 10012
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FAX: (212) 625-3807

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FIELD OPERATIONS
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FAX: (212) 615-3700

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ISRAEL BERGER & ASSOCIATES, INC.
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FAX: (212) 699-6449

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

2015-11-12	ISSUED FOR DCR FILING
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
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2014-04-03	Issued for 50% Construction Documents
2014-03-12	Issued for DCR Filing
2014-03-14	Design Development

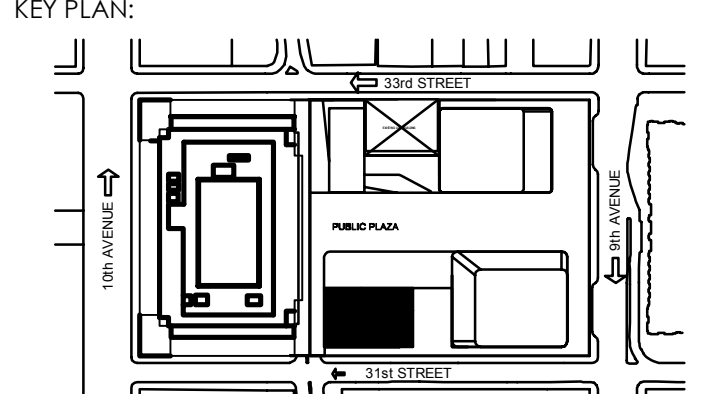
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D.C.B. NUMBER:

NB#

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KEY PLAN:



PROJECT:

MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE:

PLUMBING
3RD FLOOR PLAN

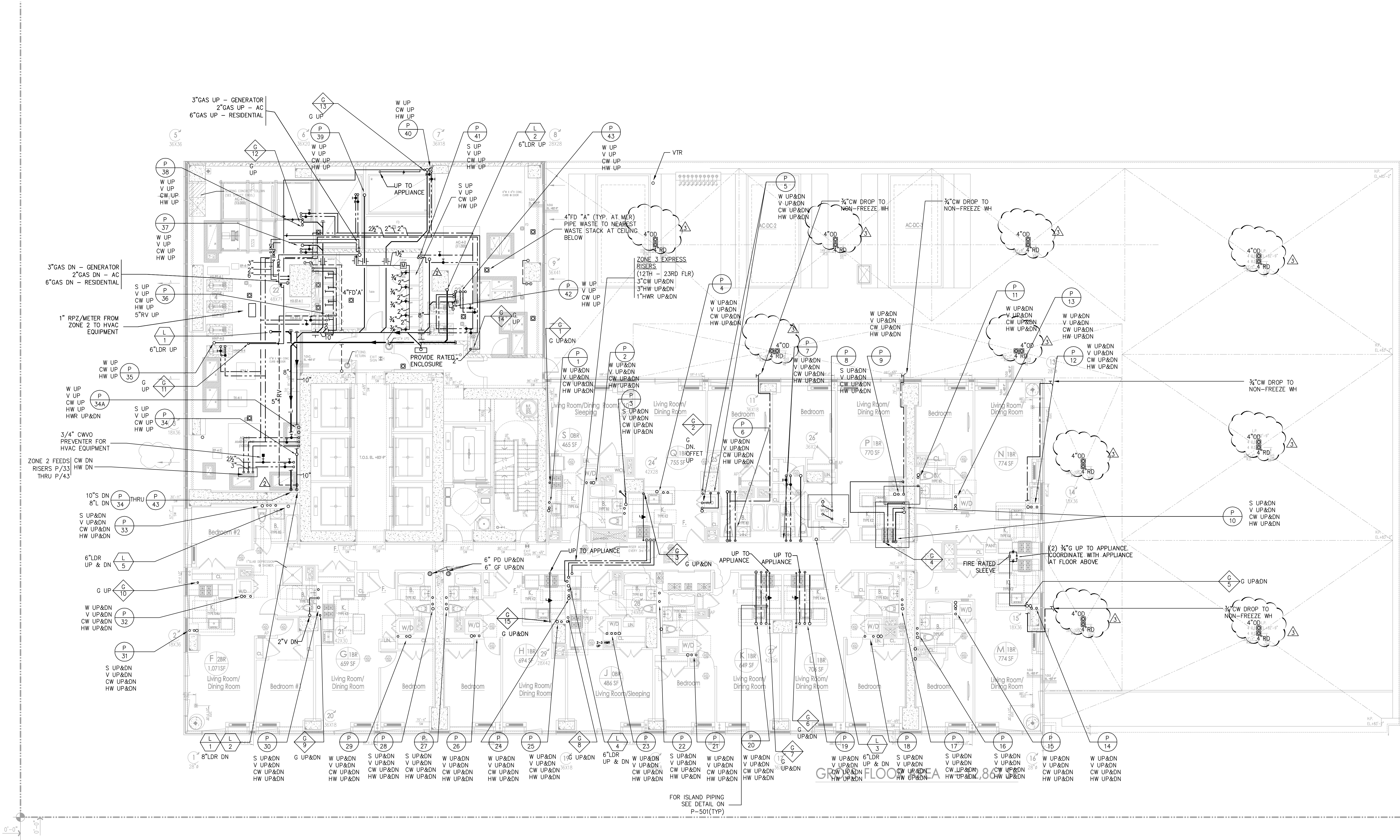
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PROJECT NO: 120187-02
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DWG. NO.: P-106.01

SHEET NO: 8 of 31

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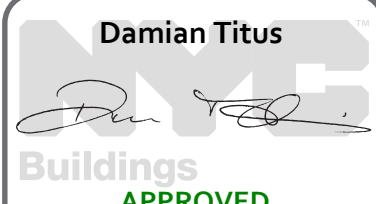


4TH FLOOR PLAN

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

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Southwest Residential
Tower

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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

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Skidmore, Owings & Merrill LLP
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INTERIOR DESIGN:

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TEL: (212) 625-9808
FAX: (212) 625-9807

LANDSCAPE ARCHITECT:

JAMES CORNER
FIELD OPERATIONS
475 TENTH AVENUE
NEW YORK, NY 10018
TEL: (212) 433-1450

STRUCTURAL ENGINEER:

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ENGINEERS, P.L.L.C.
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ISRAEL BERGER & ASSOCIATES, INC.
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FAX: (212) 689-6449

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VRIDIAN ENERGY & ENVIRONMENTAL
50 WASHINGTON STREET
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FAX: (203) 299-1656

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225 WEST 34TH STREET
NEW YORK, NY 10122
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FAX: (917) 339-9400

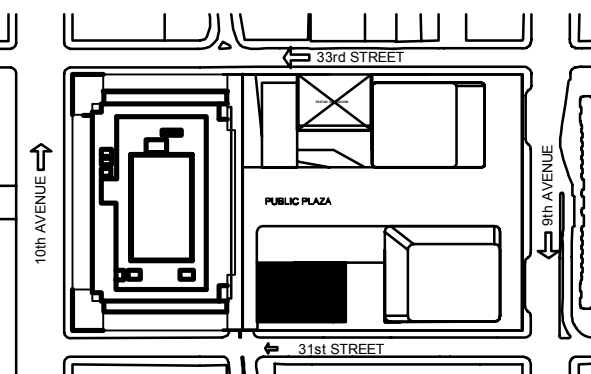
CONSTRUCTION MANAGER:

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

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2015/05/01 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: 01/21/14
REVISION:
D.O.B. NUMBER:
NB#
NORTH:
Scale: 1/8" = 1'-0"
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KEY PLAN:



PROJECT:

MANHATTAN WEST
NEW YORK, NEW YORK

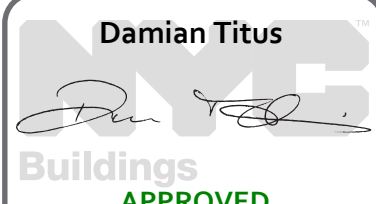
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PLUMBING
4TH FLOOR PLAN

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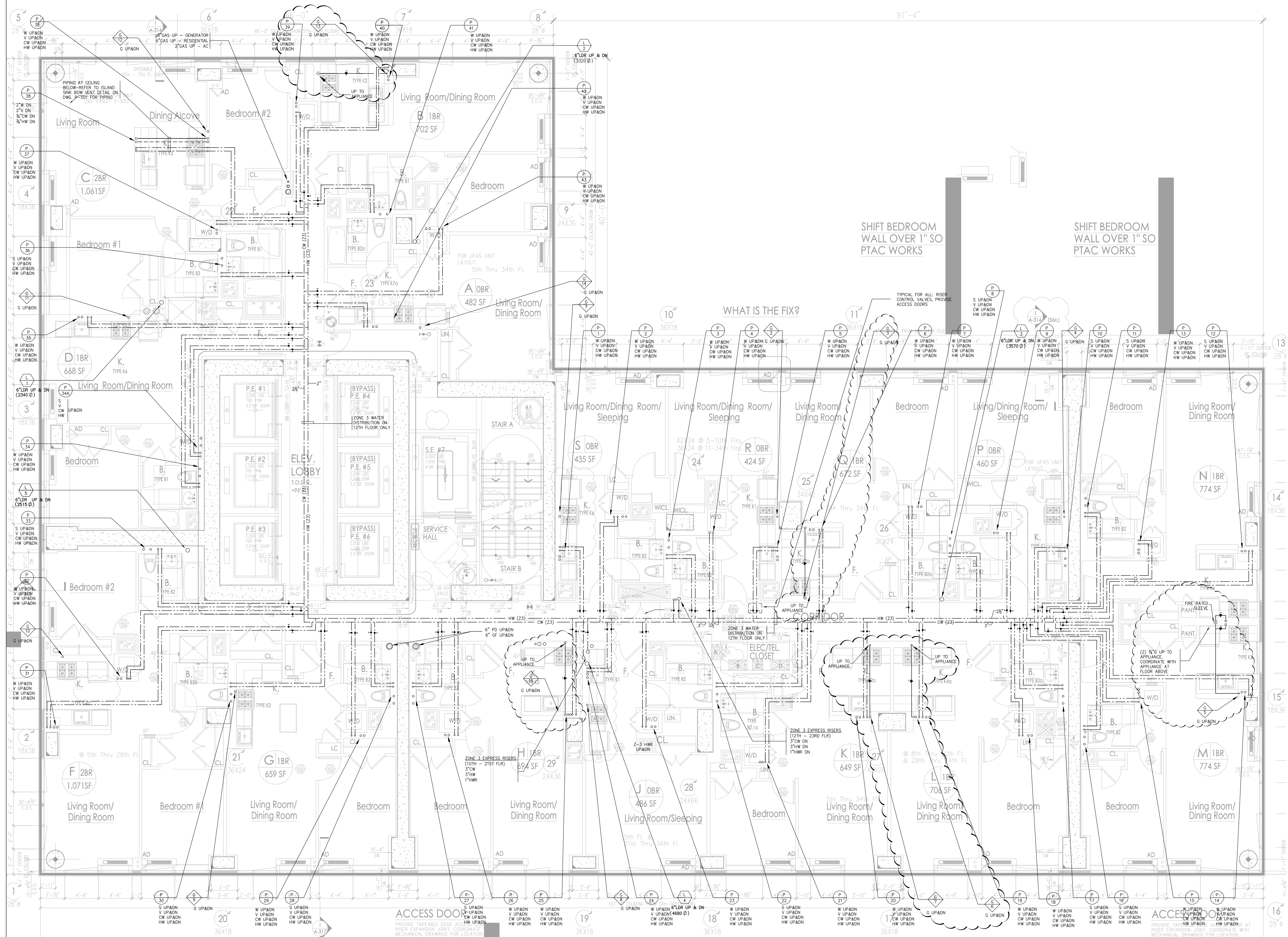
DATE: 01/21/14
PROJECT No.: 120187-02
DRAWN BY: RW
CHECKED BY: DS
DWG. No.: P-108.01
SHEET No.: 9 of 31

FILE No.: I:\12018\7-02\PLUNKIN\2018\7-02\108 4th floor.dwg



APPROVED
Under Direction of
Date: 03/22/2015

NYC Development Hub





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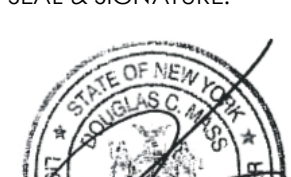
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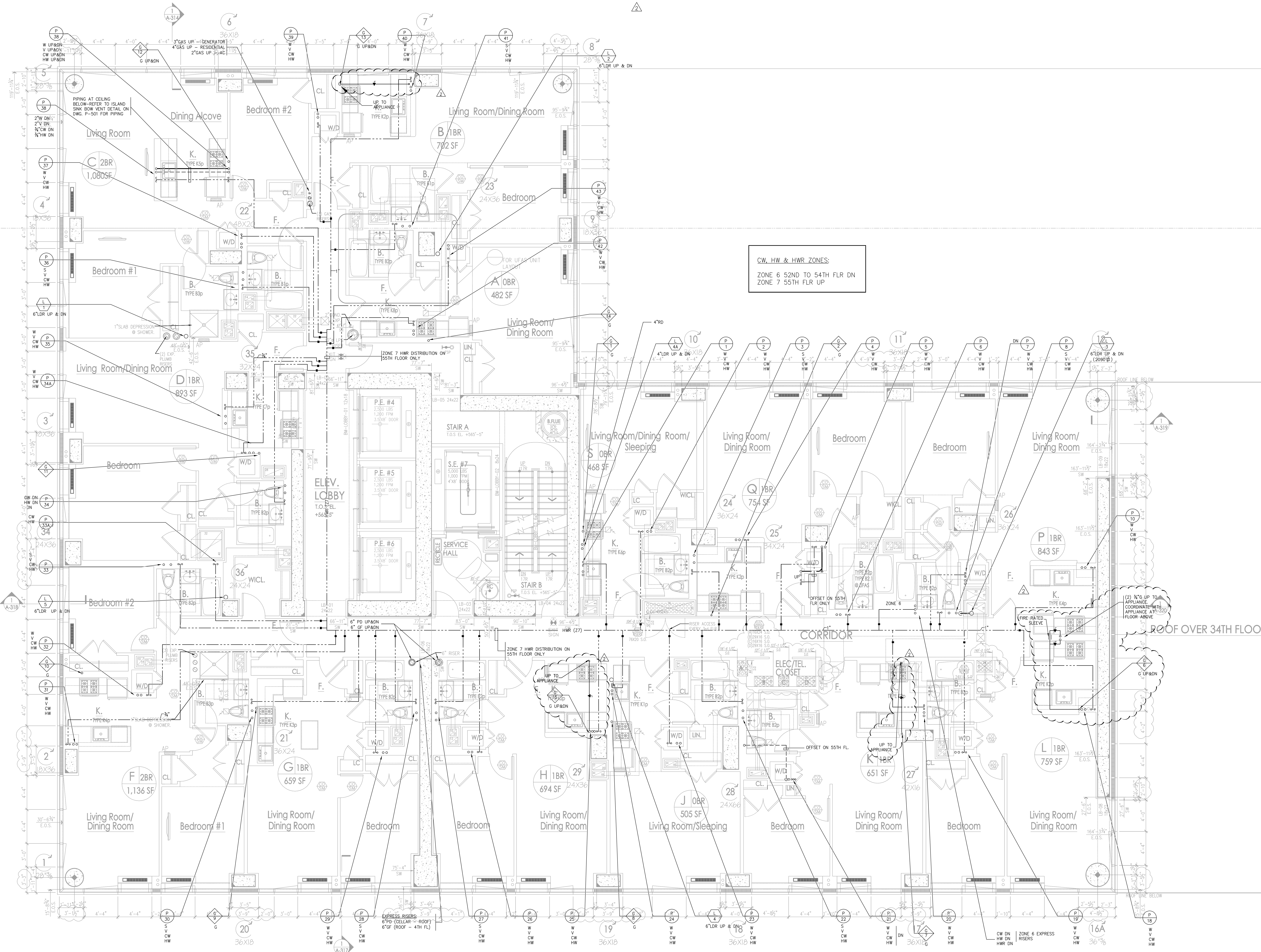
Damian Titus

Buildings
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION

SEAL & SIGNATURE:	DATE: 01/21/14
	PROJECT No.: 120187-02
	DRAWN BY: KW
	CHECKED BY: GS
	DWG. No.: P-110.01
	SHEET No.: 11 of 31

SEAL & SIGNATURE:	DATE: 01/21/14
	PROJECT NO.: 120187-02
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	CHECKED BY: GS
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	SHEET No.: 12 of 31
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SEAL & SIGNATURE:	DATE: 01/21/14
	PROJECT NO.: 120187-02
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	CHECKED BY: GS
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	P-111.01
	SHEET No.: 12 of 31
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PLOTTED BY: MOLINA, ISRAEL

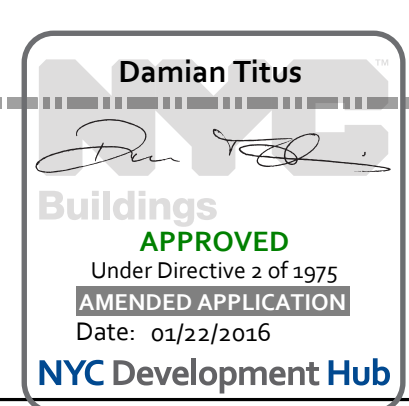


CW, HW & HWR ZONES:
ZONE 6 52ND TO 54TH FLR DN
ZONE 7 55TH FLR UP

52ND THRU 55TH 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
809 West 31st Street LLC
Brookfield Properties W 33rd COLP
Brookfield Place, 250 Vesey Street
New York, NY 10281

ARCHITECT:
SLCE Architects, LLP
1359 BROADWAY
NEW YORK, NY 10018
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(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

LANDSCAPE ARCHITECT:
**JAMES CORNER
FIELD OPERATIONS**
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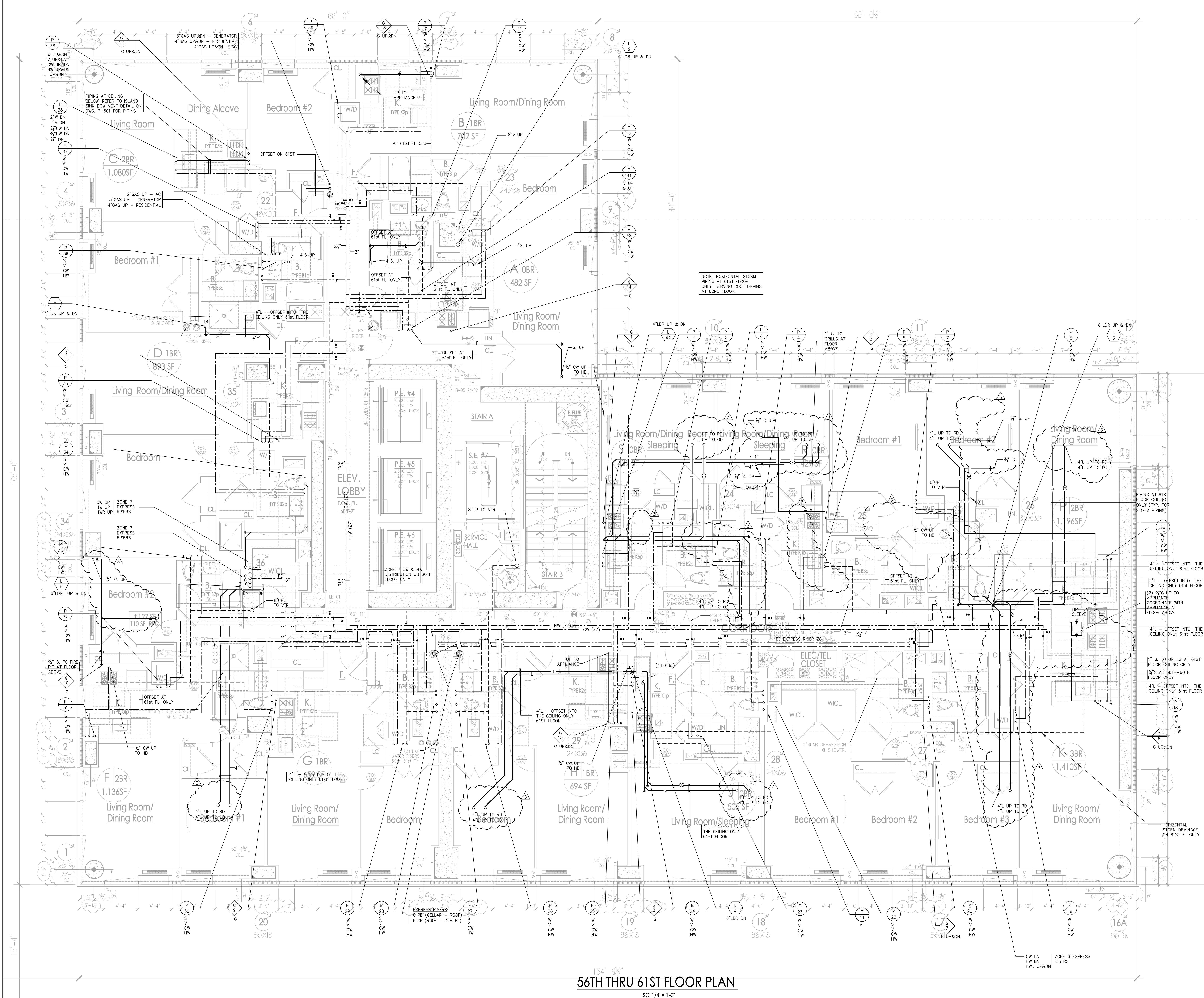
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2015-11-12 ISSUED FOR DCB RULING
2015-05-01 BULLETIN #5
2014-12-15 ISSUED FOR CDP
2014-10-09 ISSUED FOR DCB RULING
2014-10-09 BULLETIN #1
2014-09-09 ISSUED FOR CONSTRUCTION
2014-08-01 RFE CONSTRUCTION DOCUMENTS
2014-06-03 ISSUED FOR RFE CONSTRUCTION DOCUMENTS
2014-04-12 ISSUED FOR DCB RULING
2014-03-14 DESIGN DEVELOPMENT
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
52ND THRU 55TH FLOOR PLAN**
SEAL & SIGNATURE:
DATE: 02/17/2014
PROJECT NO: 12018702P
DRAWN BY: TW
CHECKED BY: GS
DWG. NO.: **P-115.01**
SHEET NO: 16 of 31
FILE NO: 1-120187-02-PLUM-12018702P-11552nd thru 55th floor.dwg

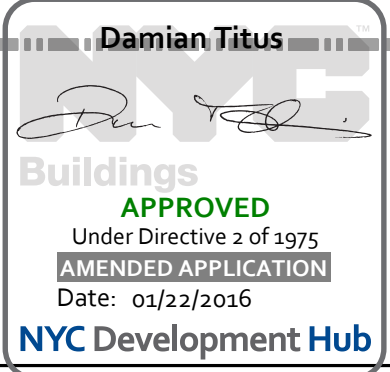
FILE NAME: I:\2018\7-02\PLUM\12018702P-11656th thru 61st floor.dwg
SAVED ON: 11/11/2015 5:40 PM
PLOTTED BY: MOLINA, ISRAEL



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

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FAX: (212) 979-8387

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

2015-11-12 ISSUED FOR DCB RING
2015-09-18 ASB COR
2015-09-18 ASB COR
2014-12-15 ISSUED FOR CWP
2014-12-18 ISSUED FOR DCB RING
2014-10-09 ISSUED FOR CONSTRUCTION
2014-08-09 ISSUED FOR CONSTRUCTION DOCUMENTS
2014-08-09 ISSUED FOR DCB RING
2014-05-12 ISSUED FOR DCB RING

DATE: 02/22/2016
REVISION: 1

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

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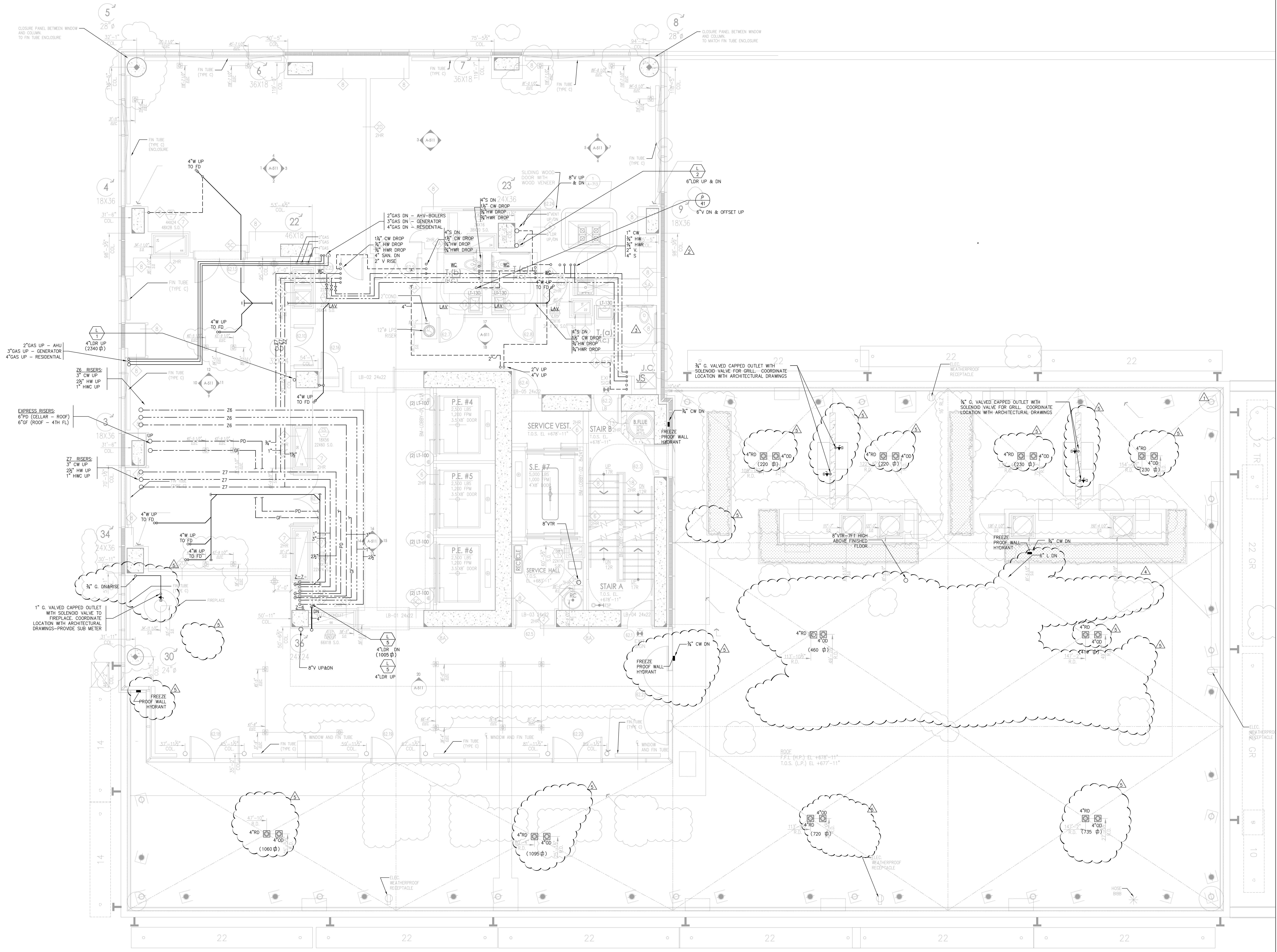
KEY PLAN:

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

DRAWING TITLE: **PLUMBING**
56TH THRU 61ST FLOOR PLAN

SEAL & SIGNATURE: **Damian Titus**
DATE: 02/17/2014
PROJECT NO: 12018702
DRAWN BY: SW
CHECKED BY: GS
DWG. NO.: **P-116.01**
SHEET NO: 17 OF 31
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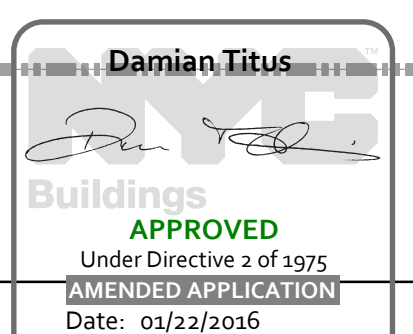
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62ND FLOOR PLAN
SC: 1/4" = 1'-0"

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Manhattan West
Southwest Residential
Tower

PART OF THE MANHATTAN WEST MASTER PLAN
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New York, NY

OWNER/DEVELOPER

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BOP West 31st Street LLC
Brookfield Properties V 3rd CO.L.P.
Brookfield Place, 250 Vesey Street
New York, NY 10281

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FAX: (212) 979-8387

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TEL: (212) 521-6800

2015-11-12 ISSUED FOR DOB FILING

2015-08-18 AS ISSUED

2015-05-01 Bulletin #5

2014-12-15 Issued for GMP

2014-12-08 ISSUED FOR DOB FILING

2014-10-09 Bulletin #1

2014-09-29 Issued for Construction

2014-08-01 90% Construction Documents

2014-04-01 Issued for 50% Construction Documents

2014-03-14 Design Development

DATE: REVISION:

D.O.B. NUMBER:
NB#

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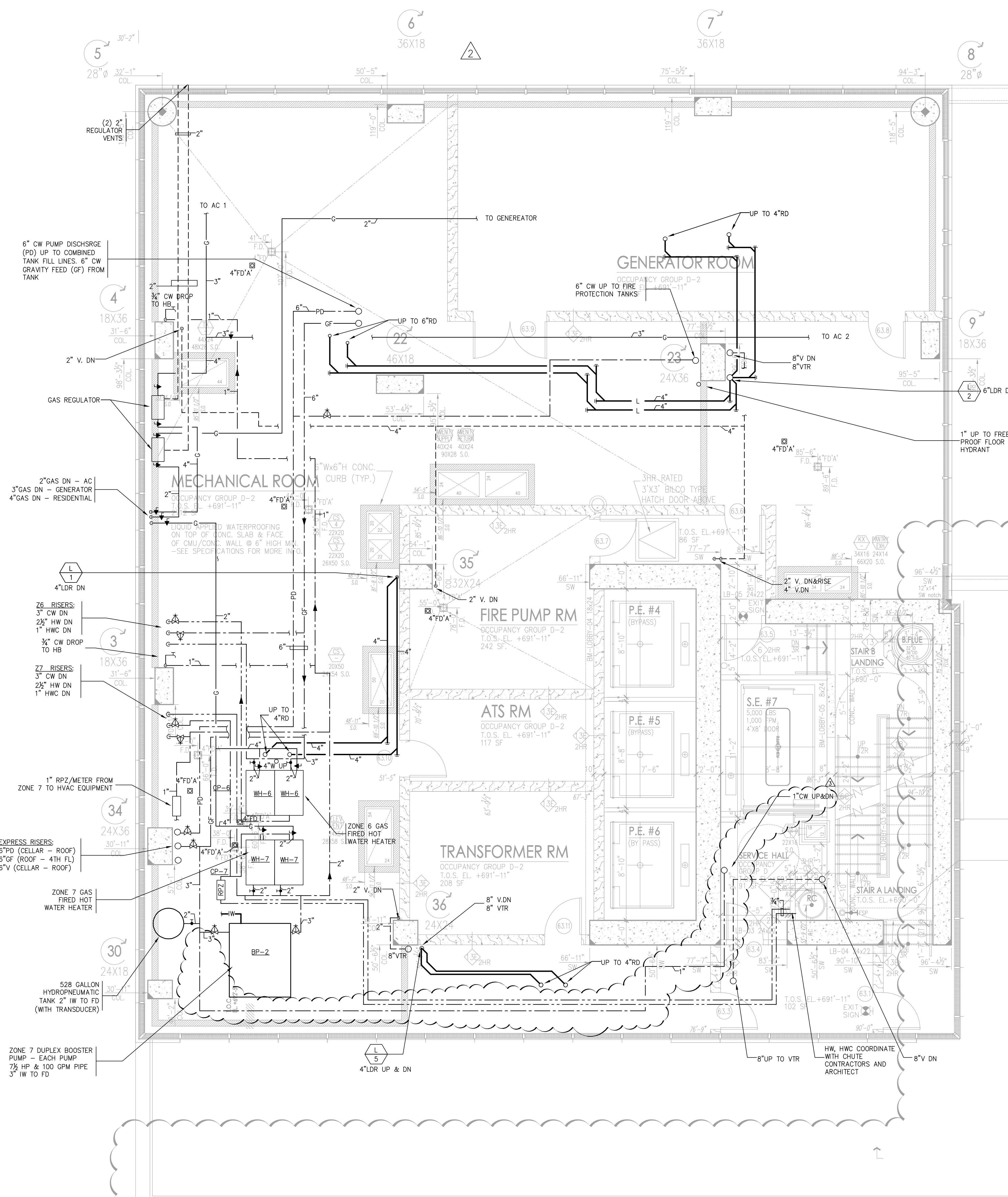
PROJECT:
MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE:
PLUMBING
62ND FLOOR PLAN

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

DATE: 01/21/14
PROJECT No.: 12018-02
DRAWN BY: RW
CHECKED BY: OS
DWG. No.:
P-117.01
SHEET No.: 18 of 31
FILE No.: I:\12018\7-02\PLUNKIN\12018\7-02P-117_62nd Floor.dwg

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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.

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

TOTAL GROSS AREA: 5,188 SF

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APPROVED
Under Direction of
Date: 01/21/2015
NYC Development Hub

Manhattan West
Southwest Residential
Tower

PART OF THE MANHATTAN WEST MASTER PLAN
West 31st Street & Dyer Avenue
New York, NY, 10001

OWNER/DEVELOPER:

Brookfield

BOP West 31st Street LLC
Brookfield Properties V 3rd CO.L.P.
Brookfield Place, 250 Vesey Street
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ARCHITECT:

SLCEArchitects,LLP

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FAX: (212) 979-8387

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LANDSCAPE ARCHITECT:

JAMES CORNER
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CONSTRUCTION GROUP

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2014-12-15 Issued for GMP

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2014-10-09 Bulletin #1

2014-09-09 Issued for Construction

2014-08-01 90% Construction Documents

2014-06-14 Issued for 50% Construction Documents

2014-05-12 Issued for DOB Filing

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
63RD FLOOR PLAN

SEAL & SIGNATURE: DATE: 01/21/14
PROJECT No.: 12018-02
DRAWN BY: RW
CHECKED BY: OS
DWG. No.: P-118.01
SHEET No.: 19 of 31

FILE No.: 12018-02-PLUMBING-63RD FLOOR-18 (See Key Plan)

154-81
Damian Titus
APPROVED
Under Direction of
Date: 01/21/2015
NYC Development Hub

Brookfield

80P West 31st Street LLC
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NEW YORK, NY 10281
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2014-03-14 Design Development	
DATE:	REVISION:
D.O.B. NUMBER:	
NB#	

NORTH: 

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



KEY PLAN:

100 AVENUE

PUBLIC PLAZA

101 AVENUE


PROJECT:

MANHATTAN WEST
NEW YORK , NEW YORK


DRAWING TITLE:

PLUMBING
4TH FLOOR PLAN

SEAL & SIGNATURE: _____ DATE: 12/18/2013

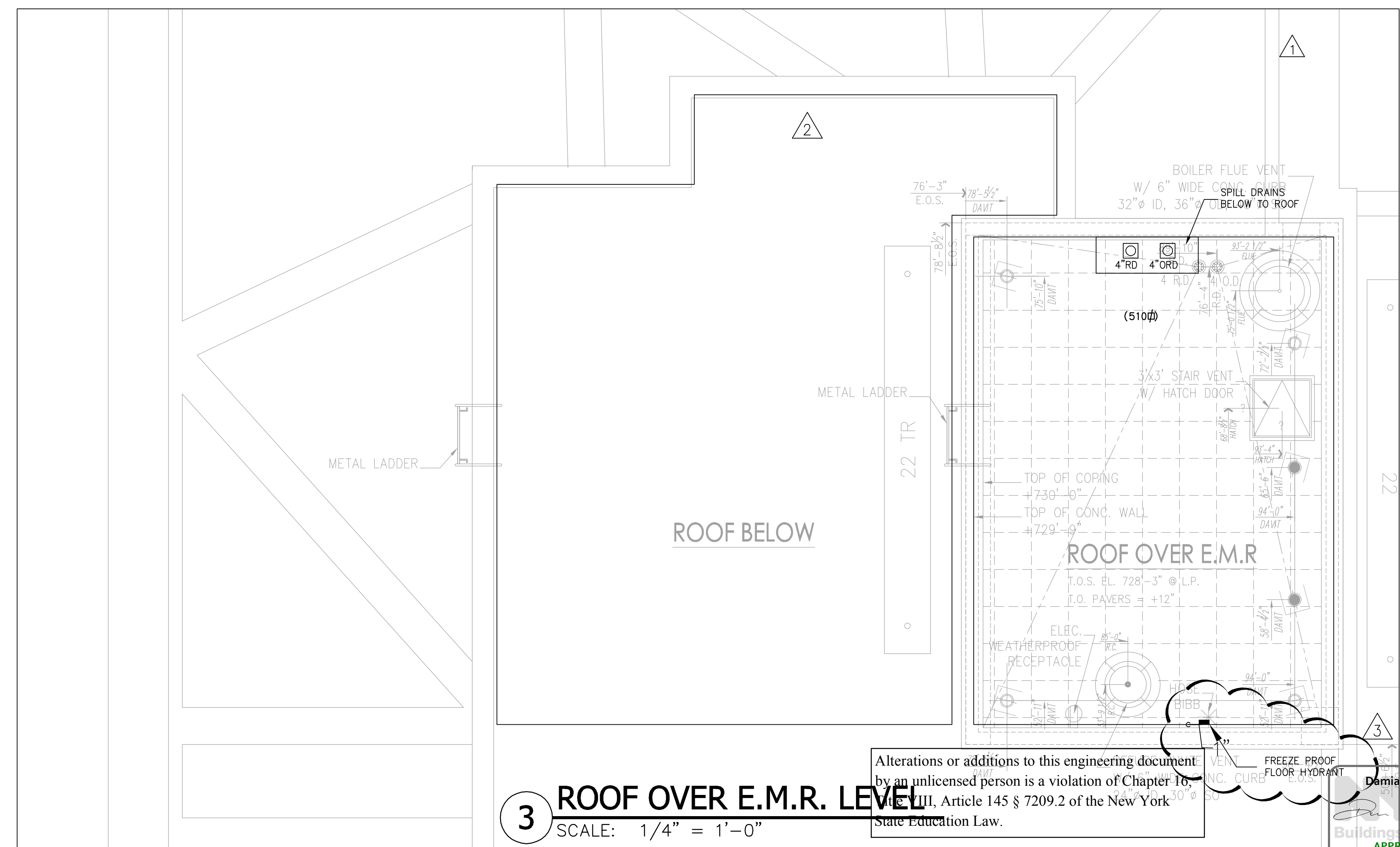
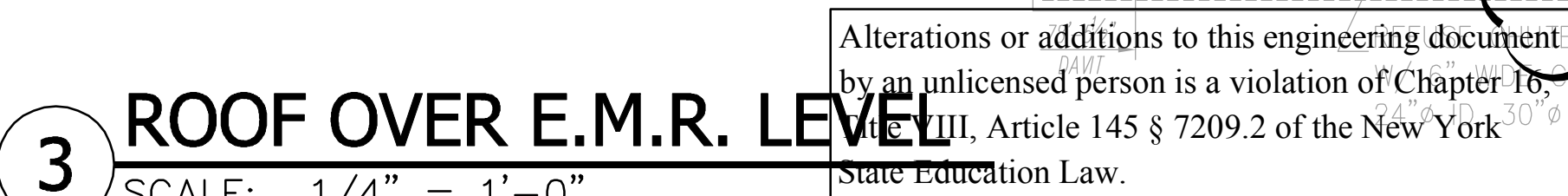
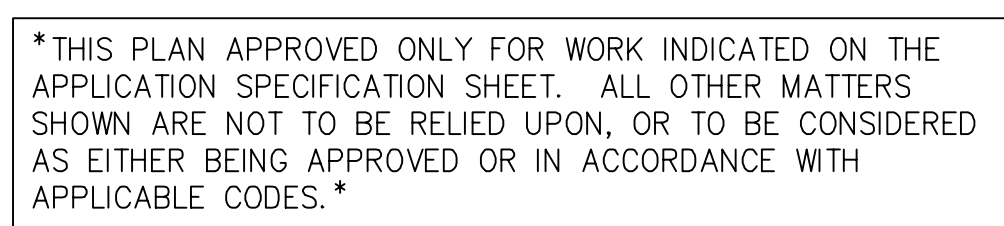


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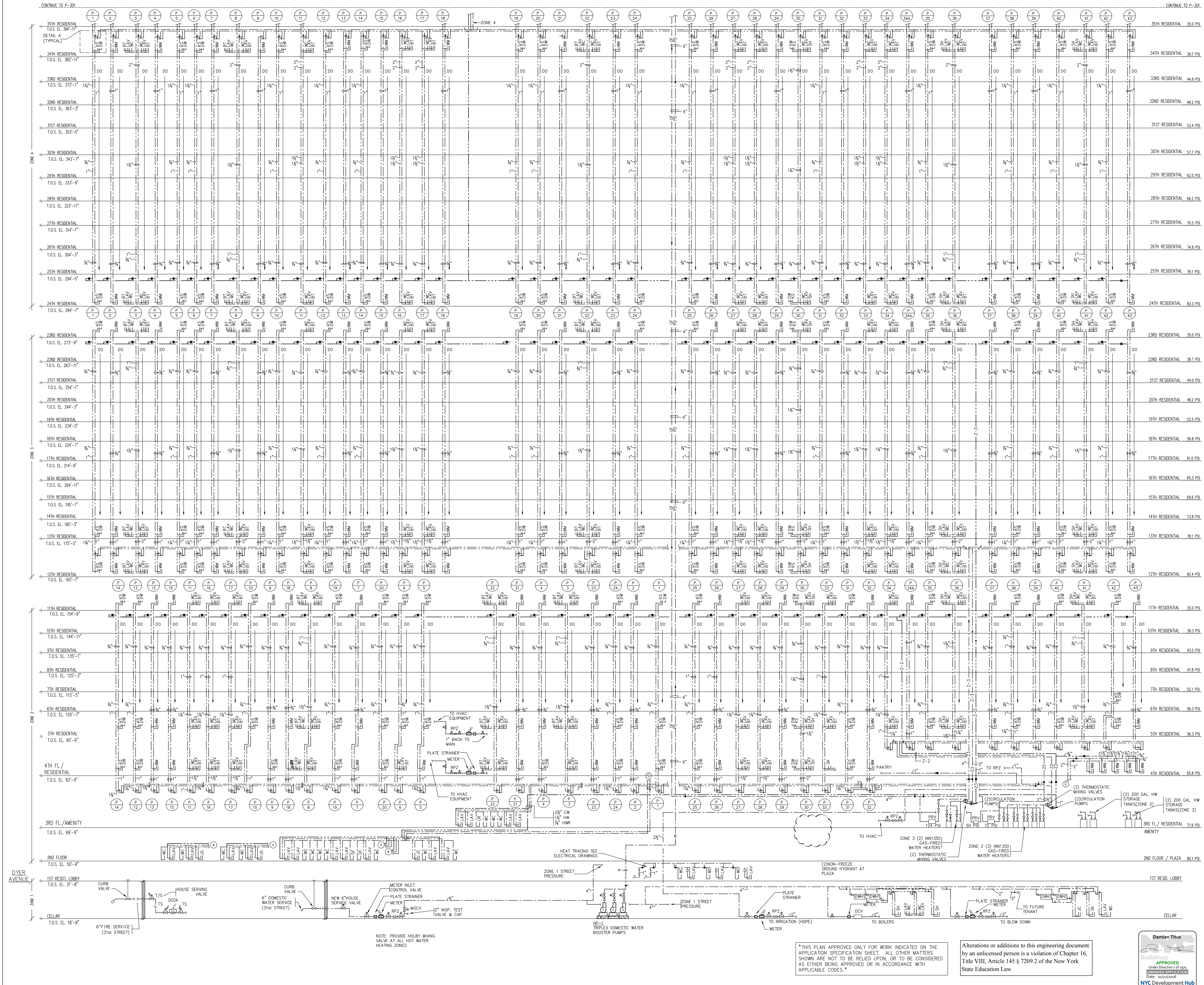

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SHEET No.: 20 of 31

FILE No: P:\20187-02\PLM\12018702P-115\64th floor.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, NY

OWNER/DEVELOPER:
Brookfield
809 West 31st Street LLC
Brookfield Properties W 33rd COLP
Brookfield Place, 250 Vesey Street
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ARCHITECT:
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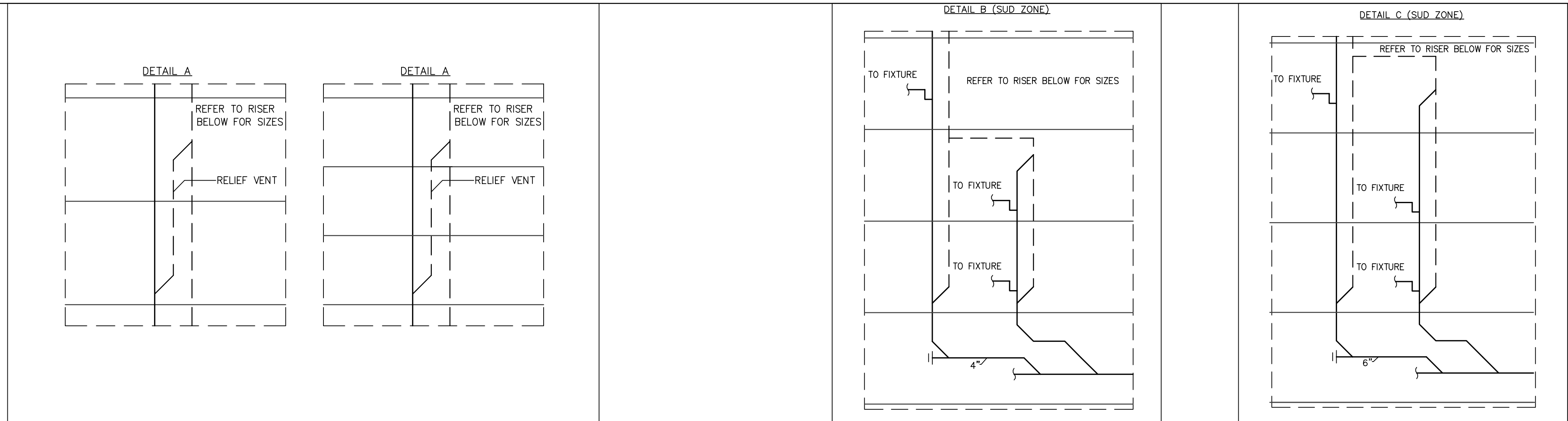
GEOTECHNICAL ENGINEER:
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TEL: (212) 321-6800

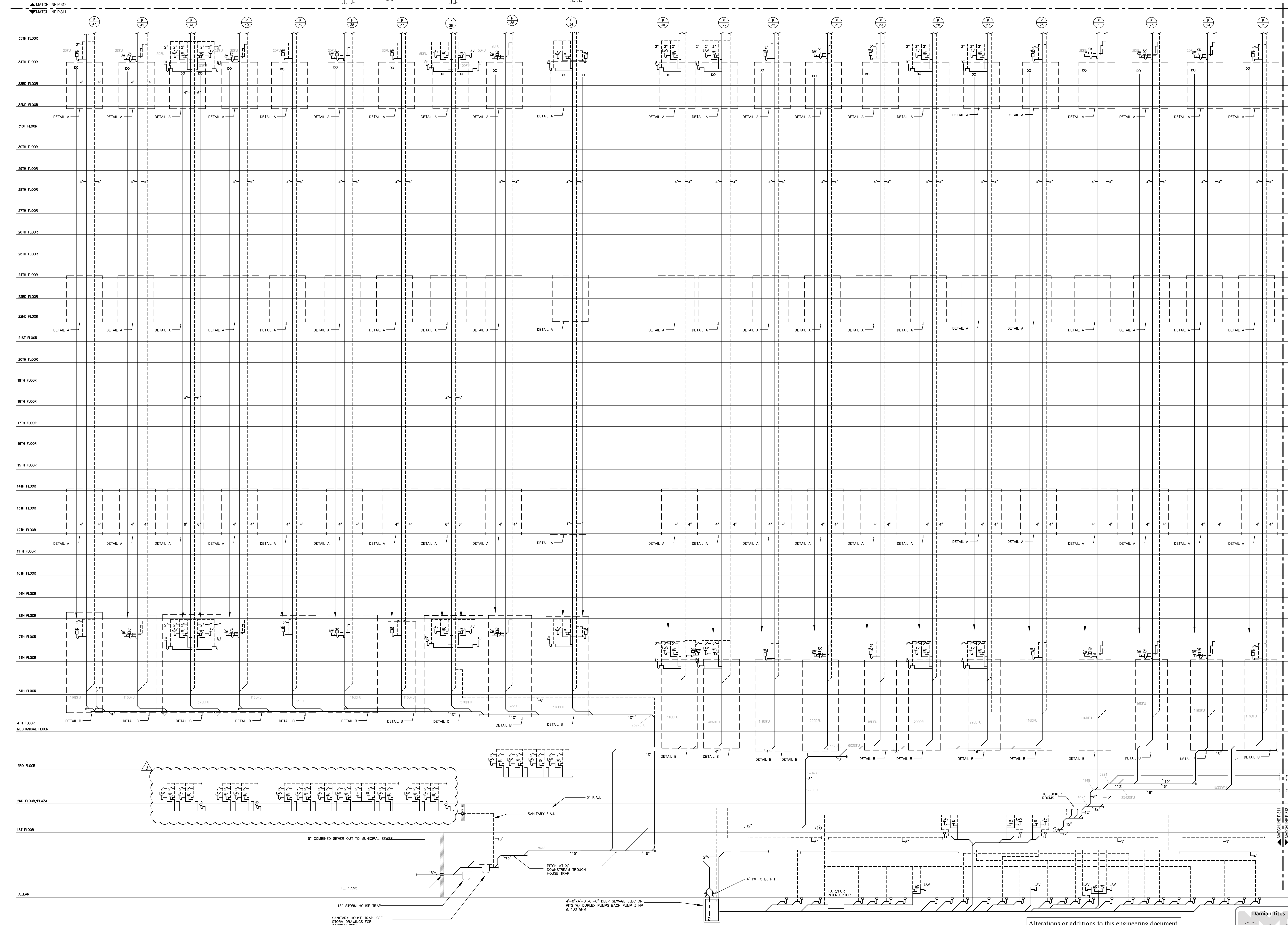
2013.11.12 ISSUED FOR DCB PERMITS
2014.12.15 ISSUED FOR CMP
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2014.12.29 Reletting #1
2014.09.09 issued for Construction
2014.08.01 90% Construction Documents
2014.04.08 issued for 90% Construction Documents
2014.03.01 issued for DCB Permit
DATE: 02/17/2014
REVISION: 1

D.C.B. NUMBER: **NB#**
NORTH
Scale: N.T.S.
KEY PLAN:
PROJECT: **MANHATTAN WEST NEW YORK, NEW YORK**
DRAWING TITLE: **PLUMBING DOMESTIC WATER RISER DIAGRAM #2 (CELLAR THRU 34TH FLOOR)**
SEAL & SIGNATURE: **Damian Titus**
DATE: 02/17/2014
PROJECT NO: 12018702
DRAWN BY: RW
CHECKED BY: GS
DWG. NO.: **P-302.01**
SHEET NO: 22 of 31
FILE NO: 1\120187-02\PLUM\12018702P-302 Domestic Water P3.dwg
APPROVED
NYC Development Hub
Date: 01/22/2016

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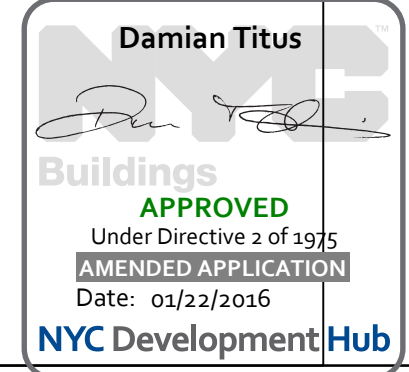


REFER TO DRAWING P-312 FOR CONTINUATION



REFER TO DRAWING P-313 FOR CONTINUATION

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New York, NY.

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Brookfield Place, 250 Vesey Street
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ARCHITECT:
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(212) 298-9300

INTERIOR DESIGN:
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NEW YORK, NY 10012
TEL.: (212) 625-3808
FAX.: (212) 625-3807

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

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FAX.: (212) 481-4108

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TWO PENN PLAZA
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TEL.: (212) 615-3600
FAX.: (212) 615-3700

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VERTICAL TRANSPORTATION CONSULTANT:
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LIVINGSTON, NJ 07039
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CIVIL ENGINEER:
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MUESER RUTLEDGE CONSULTING ENGINEERS
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225 LIBERTY STREET, 6TH FLOOR
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TEL.: (212) 321-6800

NO.	DATE	REVISION
1	2013-11-12	ISSUED FOR DCB RULING
2	2013-04-01	Revised per
3	2015-02-11	ASB no. 4
4	2014-12-15	Issued for C&P
5	2014-12-08	ISSUED FOR DCB RULING
6	2014-10-09	Submittal #1
7	2014-09-09	Issued for Construction
8	2014-08-01	YOL Construction Documents
9	2014-06-03	Issued for SOM Construction Documents
10	2014-03-19	Issued for DCB RULING

DATE: 01/22/2016
REVISION:

D.C.B. NUMBER: NB#

Scale: N.T.S.

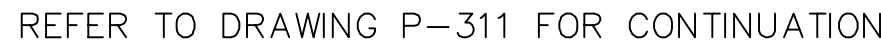
KEY PLAN:


PROJECT:
MANHATTAN WEST
NEW YORK, NEW YORK

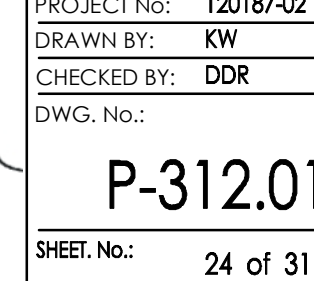
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PLUMBING
SANITARY RISER DIAGRAM #1

SEAL & SIGNATURE:
DATE: 01/21/14
PROJECT NO: 120187-02
DRAWN BY: LW
CHECKED BY: DDE
DWG. NO.:
P-311.01
SHEET NO: 23 of 31

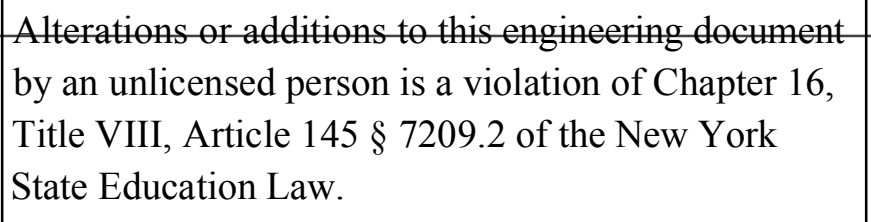
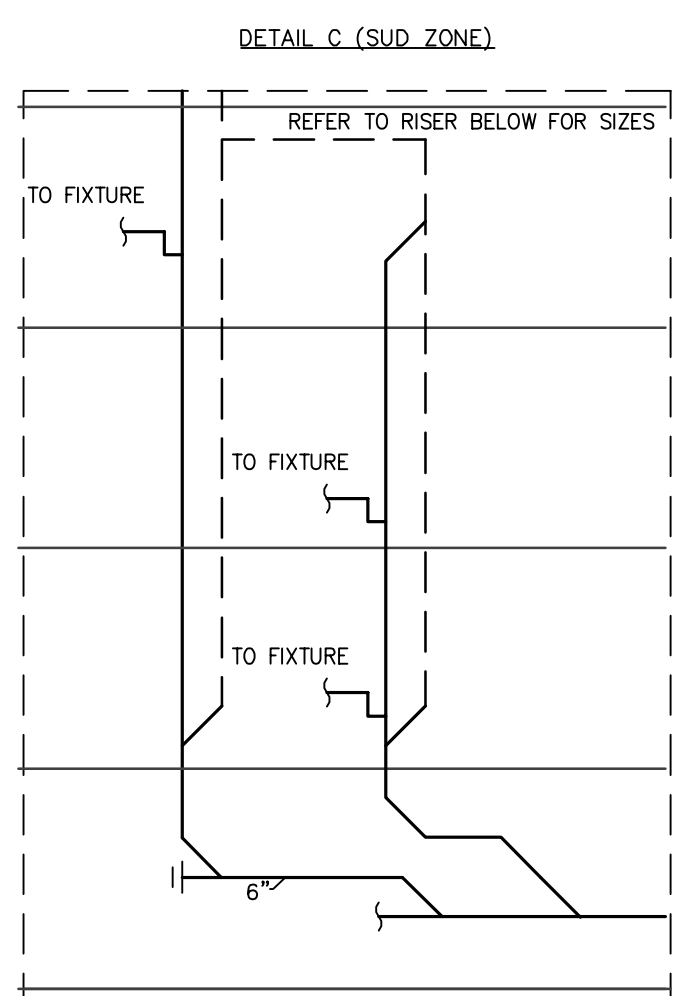
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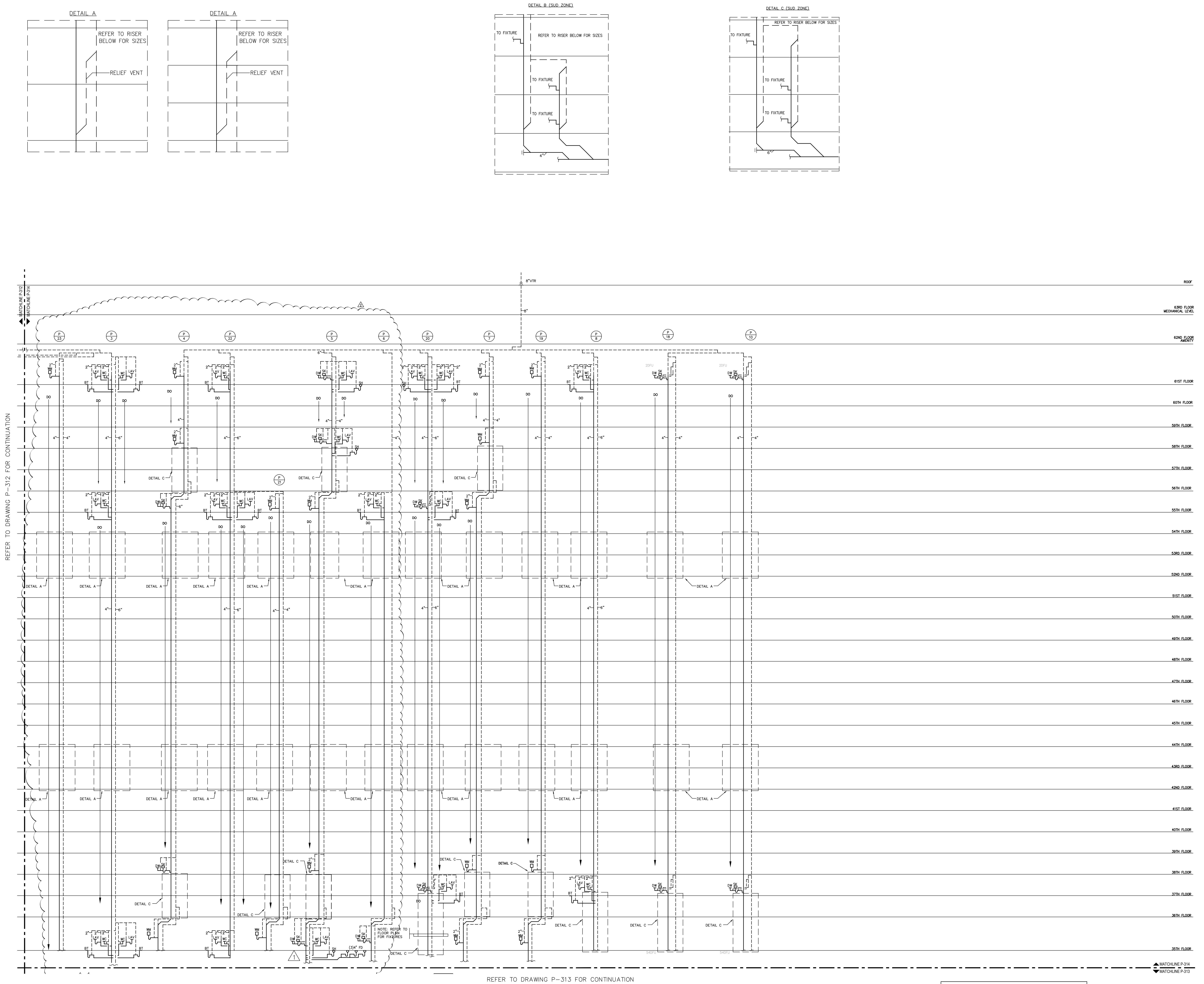
Damian Titus

Buildings
APPROVED
 Under Directive 2 of 1975
AMENDED APPLICATION
 Date: 01/22/2016



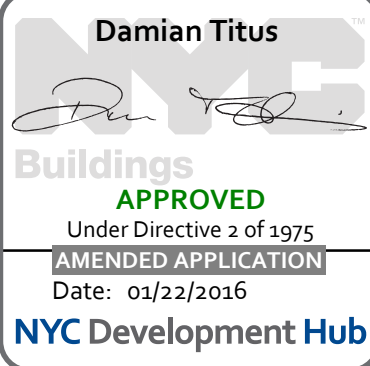
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PLOTTED ON: 11/17/2015 3:44 PM
PLOTTER BY: MOLINA, ISRAEL



Alterations or additions to this engineering document by an unlicensed person is a violation of Chapter 16, Title VIII, Article 145 § 7209.2 of the New York State Education Law.



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, 230 Vesey Street
New York, NY 10039

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SLCEArchitects, LLP
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NEW YORK, NY 10018
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VRIDIAN ENERGY & ENVIRONMENTAL
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FAX.: (203) 299-1656

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ACOUSTICAL CONSULTANT:
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TEL.: (212) 570-1776
FAX.: (212) 570-1756

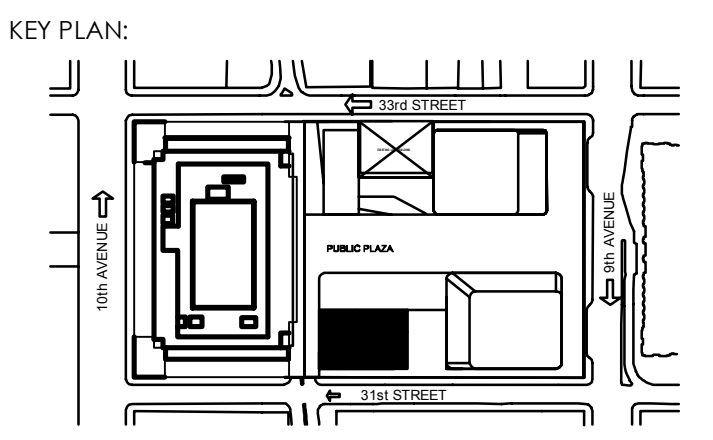
CIVIL ENGINEER:
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HUNTER ROBERTS
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225 LIBERTY STREET, 6th FLOOR
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TEL.: (212) 321-6800

2015-11-12	ISSUED FOR DCB RING
2015-09-01	Revised #1
2014-12-15	Issued for DCB
2014-12-08	ISSUED FOR DCB RING
2014-10-09	Revised #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 DCB Ring
2014-03-14	Design Development
DATE:	REVISION:

DCB & NUMBER:
NB#
NORTH
Scale: N.T.S.
0 4 8 12 16 20



PROJECT:
MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE:
PLUMBING
SANITARY RISER DIAGRAM #4

SEAL & SIGNATURE:
DATE: 01/22/14
PROJECT NO: 12015742
DRAWN BY: KW
CHECKED BY: DOR
DWG. NO.:
P-314.01
SHEET NO.: 26 of 31

FILE NO: 1\2018\7-26\PLUM\2018\7-26-P-314 - SANITARY #4.dwg

Brookfield

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

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2014-08-01	90% Construction Documents
2014-06-03	Issued for 50% Construction Documents
2014-05-12	Issued for DOB Filing
DATE:	REVISION:

NB#

NORTH:

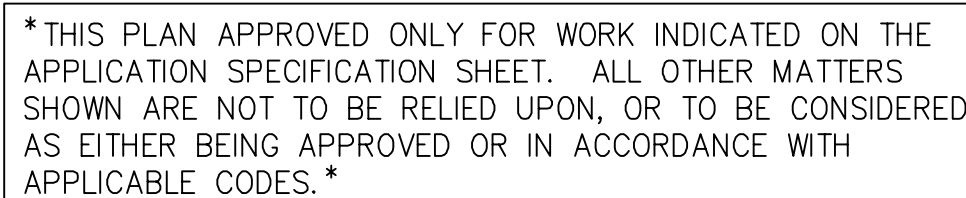
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MANHATTAN WEST
NEW YORK, NEW YORK

STATE OF NEW YORK
JOSUAS C. MISS

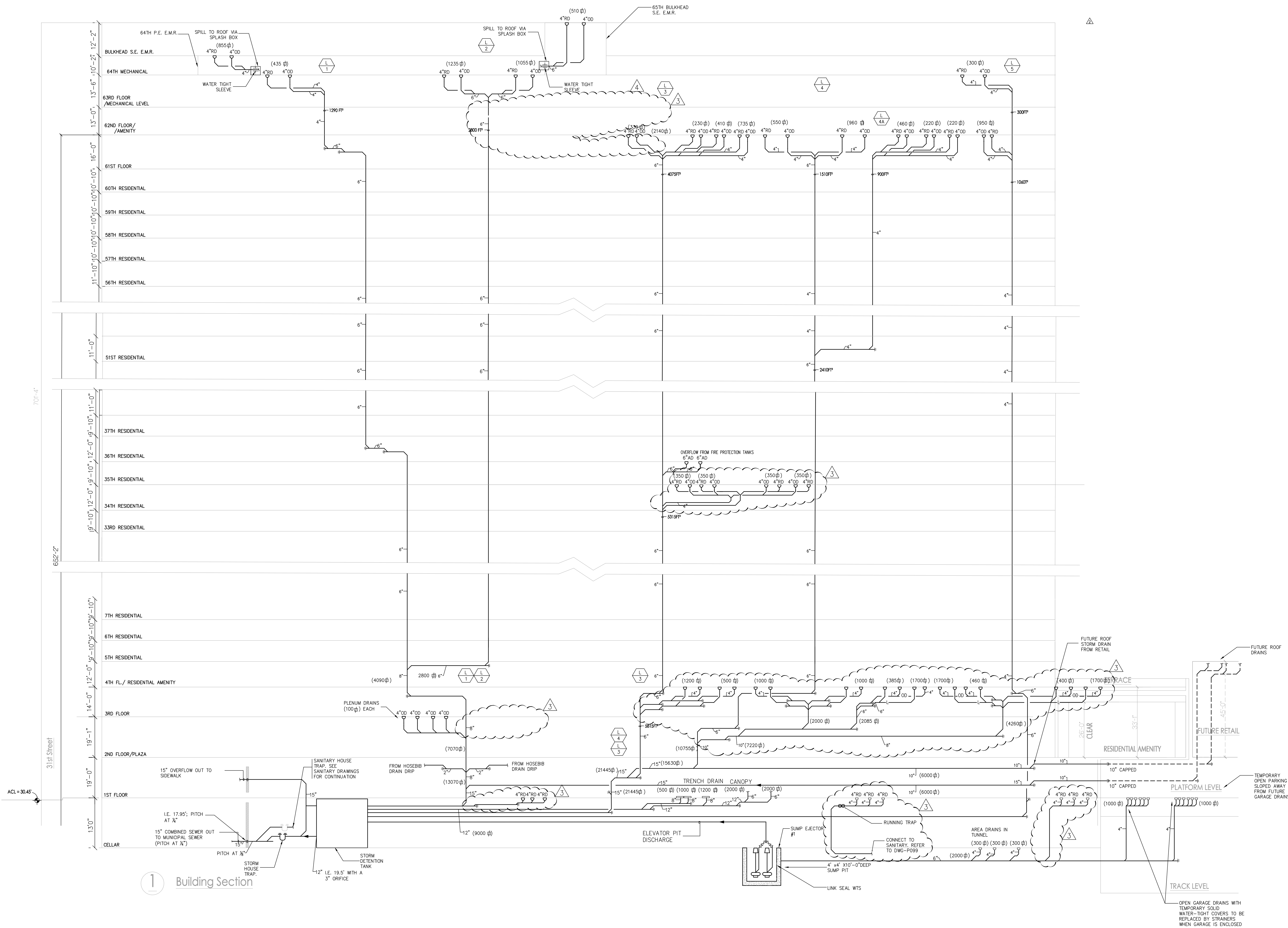
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Damian Titus

Buildings
APPROVED

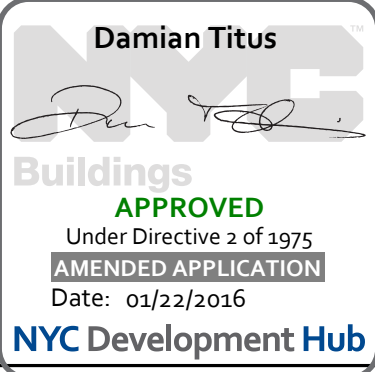
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1 Building Section

* 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
801 West 31st Street LLC
Brookfield Properties W 33rd CO.L.P.
Brookfield Place, 250 Vesey Street
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2015-11-12	ISSUED FOR DCB FILING
2015-09-18	ASB-020
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
2014-04-03	Issued for SDC Construction Documents
2014-02-12	Issued for DCB Filing

DATE	REVISION

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

NORTH

Scale: N.T.S.

KEY PLAN:

PROJECT

MANHATTAN WEST
NEW YORK, NEW YORK

DRAWING TITLE

PLUMBING
STORM RISER DIAGRAM
AND CLEAR WATER

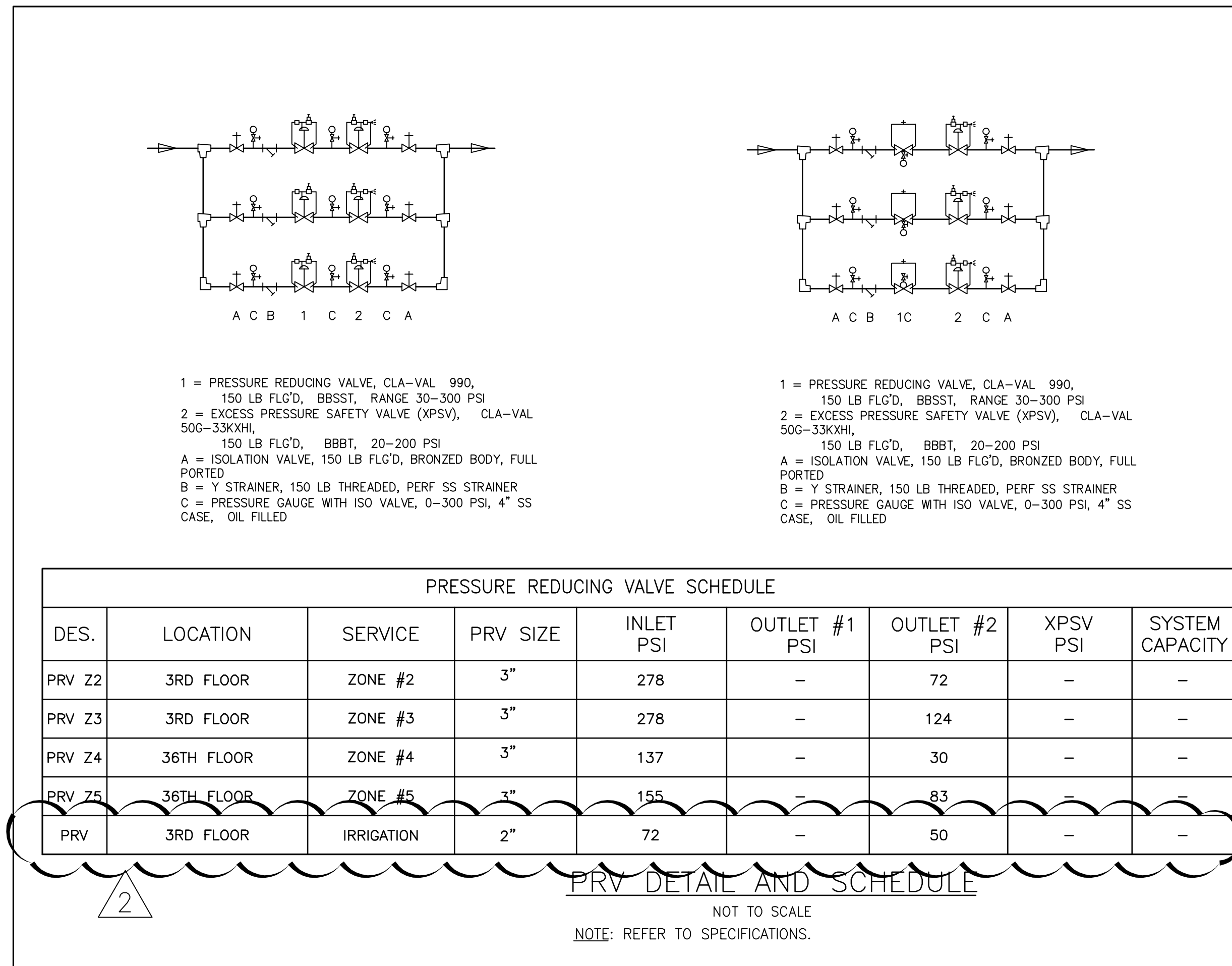
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DATE: 01/21/14
PROJECT NO: 120187-02
DRAWN BY: TW
CHECKED BY: GS
DWG. NO.: **P-331.01**
SHEET NO: 28 of 31

FILE NO:

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PUMPS															
PUMP CO PEERLESS PUMP FLYGT BELL & GOSSETT SYNCRIFLOW STANCOR	ABBREVIATION P.P. F B&G S SC														
DESIGNATION/LOCATION	NO. REQUIRED	G.P.M.	T.D.H.	MODEL NO.	STAGES STAGE COUPLED	WORKING PRESS.	H.P.	G.P.M.	VOLTS	PHASE	MANUAL CONTROL	STARTING STEPS PILOT LIGHT	PRESSURE GAUGE RANGE	CENTRAL CONTROL	HYDRO ACCUMULATOR
HP-1 TRIPLEX HOUSE PUMPS	1	133	690'	Peerless MSL050-4	3	—	• 175	1/2	1750	460	3	60	—	• 0-300	—
BP-1 - ROOF DUPLEX BOOSTER SYSTEM	1	115	92'	Peerless C1020AM	1	•	—	1/2	1750	460	3	60	—	• 0-100	—
EJ-1 DUPLEX EJECTORS	1	285	30'	FLYGT 4" NP3102	1	—	• 3	3	3600	460	3	60	—	• 0-50	•
ELEVATOR SIMPLEX SUMP PUMP ESP-1	1	100	40'	STANCOR SE 200									—	—	•
ELEVATOR SIMPLEX SUMP PUMP ESP-2	1	50	25'	STANCOR SE 100									—	—	•
ELEVATOR HYDRAULIC SUMP PUMP OIL MINDER ESP-3	1	50	40'	STANCOR SE 100									—	—	•
Q2-7 - ZONE #7 RE-CIRCULATION PUMP	4	25	30'	B&G SERIES 60-610S	1	—	• 175	1/2	1750	460	3	60	—	—	—
Q2-6 - ZONE #6 RE-CIRCULATION PUMP	4	25	30'	B&G SERIES 60-610S	1	—	• 175	1/2	1750	460	3	60	—	—	—
Q2-5 - ZONE #5 RE-CIRCULATION PUMP	4	25	30'	B&G SERIES 60-610S	1	—	• 175	1/2	1750	460	3	60	—	—	—
Q2-4 - ZONE #4 RE-CIRCULATION PUMP	4	25	30'	B&G SERIES 60-610S	1	—	• 175	1/2	1750	460	3	60	—	—	—
Q2-3 - ZONE #3 RE-CIRCULATION PUMP	4	25	30'	B&G SERIES 60-610S	1	—	• 175	1/2	1750	460	3	60	—	—	—
Q2-2 - ZONE #2 RE-CIRCULATION PUMP	4	25	30'	B&G SERIES 60-610S	1	—	• 175	1/2	1750	460	3	60	—	—	—
Q2-1 - ZONE #1 RE-CIRCULATION PUMP	4	25	30'	B&G SERIES 60-610S	1	—	• 175	1/2	1750	460	3	60	—	—	—
SP-1 - DUPLEX SUMP PUMP	1	135	30'	FLYGT 3" DP3068-471	1	—	• 3.2	3.2	1690	460	3	60	—	• 0-50	•
EJ-2 - EJECTOR PUMP	1	135	30'	FLYGT 3" DP3068-471	1	—	• 3.2	3.2	1690	460	3	60	—	• 0-50	•



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

		DRAINS														REMARKS															
		BODY							STRAINER																						
DESIGNATION	TURN SERIES No.	CAST IRON DRAIN	GALVANIZED ALL BRONZE	SECONDARY CLAMP	CLAMPING DEVICE	DECK CLAMP	BACK WATER VALVE	ROOF SUMP RECEIVER	INSIDE CALK	STAINLESS STEEL	DUCTILE IRON	CAST IRON	GALVANIZED ALL BRONZE	NICKEL BRONZE	CHROME PLATED	SEDIMENT BUCKET	SECONDARY STRAINER	FLUSH	SATIN FINISH	TRACTOR GRATE	S.S. MESH SCREEN	FUNNEL TOP	FLAT TOP	DOMED	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 (3"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
FD'D	Z-125-90	•																													LAUNDRY ROOM (ACID RESISTANT COATING WITH MESH SCREEN)
FD'H	Z-1185-94	•																													

SUB-METER SCHEDULES					
METER No.	TYPE	SYSTEM	CONNECTION SIZE	MAX FLOW GPM	NOTES
M-SC-1	TURBINE	IRRIGATION	3"	60	CELLAR
M-SC-1	TURBINE	COLD WATER PET GROOMING			CELLAR
M-SC-1	TURBINE	HOT WATER PET GROOMING			CELLAR
M-SC-1	TURBINE	HOT WATER RETURN PET GROOMING			CELLAR
M-2-2	TURBINE	COLD WATER LAUNDRY	2"	20	2ND FLOOR
M-2-3	TURBINE	HOT WATER LAUNDRY	2"	20	2ND FLOOR
M-2-4	TURBINE	HOT WATER RETURN LAUNDRY	3/4"	5	2ND FLOOR
M-3-2	TURBINE	COLD WATER LAUNDRY	2"	20	3RD FLOOR
M-3-3	TURBINE	HOT WATER LAUNDRY	2"	20	3RD FLOOR
M-3-4	TURBINE	HOT WATER RETURN LAUNDRY	3/4"	5	3RD FLOOR
M-3-1	TURBINE	COLD WATER AMENITIES	2 1/2"	60	3RD FLOOR
M-3-2	TURBINE	HOT WATER AMENITIES	2"	40	3RD FLOOR
M-3-3	TURBINE	HOT WATER RETURN AMENITIES	1"	10	3RD FLOOR
M-62-1	TURBINE	DOMESTIC COLD WATER AMENITIES	3"	58	62ND FLOOR
M-62-2	TURBINE	DOMESTIC HOT WATER AMENITIES	16	62ND FLOOR	
M-62-3	TURBINE	DOMESTIC HOT WATER RETURN AMENITIES		3	62ND FLOOR
NOTE:					
1. METER INSTALLATION SHALL COMPLY WITH NYC BUILDING CODE, NYC DEP AND OTHER LOCAL AUTHORITY REQUIREMENTS.					
2. COORDINATE LOCATIONS OF REMOTE METER READERS WITH ARCHITECT AND ELECTRICAL CONTRACTOR.					

DOMESTIC WATER HEATERS																		
HTR. MANUF. PVI INDUSTRIES EEMAX LOCHINVAR PATTERSON-KELLEY	ABBREV. PVI E L PK	NO. REQUIRED	MANUFACTURER & MODEL NO.	TANK DATA		ELECTRIC DATA			ELEMENT DATA		GAS DATA		DOMESTIC HW TEMP. OUT	NOTES				
DESIGNATION/LOCATION	STORAGE CAP./GALS. EACH			PRESSURE RATING	RECOVERY PER HEATER AT 100°F (ANNUAL GPM/HEATER)	TOTAL REQ. GPM/HEATER	MOTOR HP	VOLTS	PHASE	CYCLE	UPPER ELEMENT	LOWER ELEMENT			TOTAL K.W.	VOLTS	PHASE	GAS PRESS./W.C.
DWH 1 LOW ZONE #1 - FLOOR		4	HUBBELL HSE	40				460	3	60			8				140°	CELLAR
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

GAS METER SCHEDULE				
METER No.	TYPE	SYSTEM	CONNECTION SIZE	NOTES
G-1		2ND FLOOR LAUNDRY	2"	
G-2		3RD FLOOR LAUNDRY	2"	
G-3		63RD FLOOR BBQ GRILLS	1"	
G-4		63RD FLOOR BBQ GRILLS	1"	
G-5		63RD FLOOR BBQ GRILLS	1"	
G-6		63RD FLOOR BBQ GRILLS	1"	
G-7		63RD FLOOR FIRE PIT	1"	
G-8		63RD FLOOR FIREPLACE	1"	

Manhattan West Southwest Residential Tower

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

OWNER/DEVELOPER:

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

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CONSTRUCTION MANAGER:

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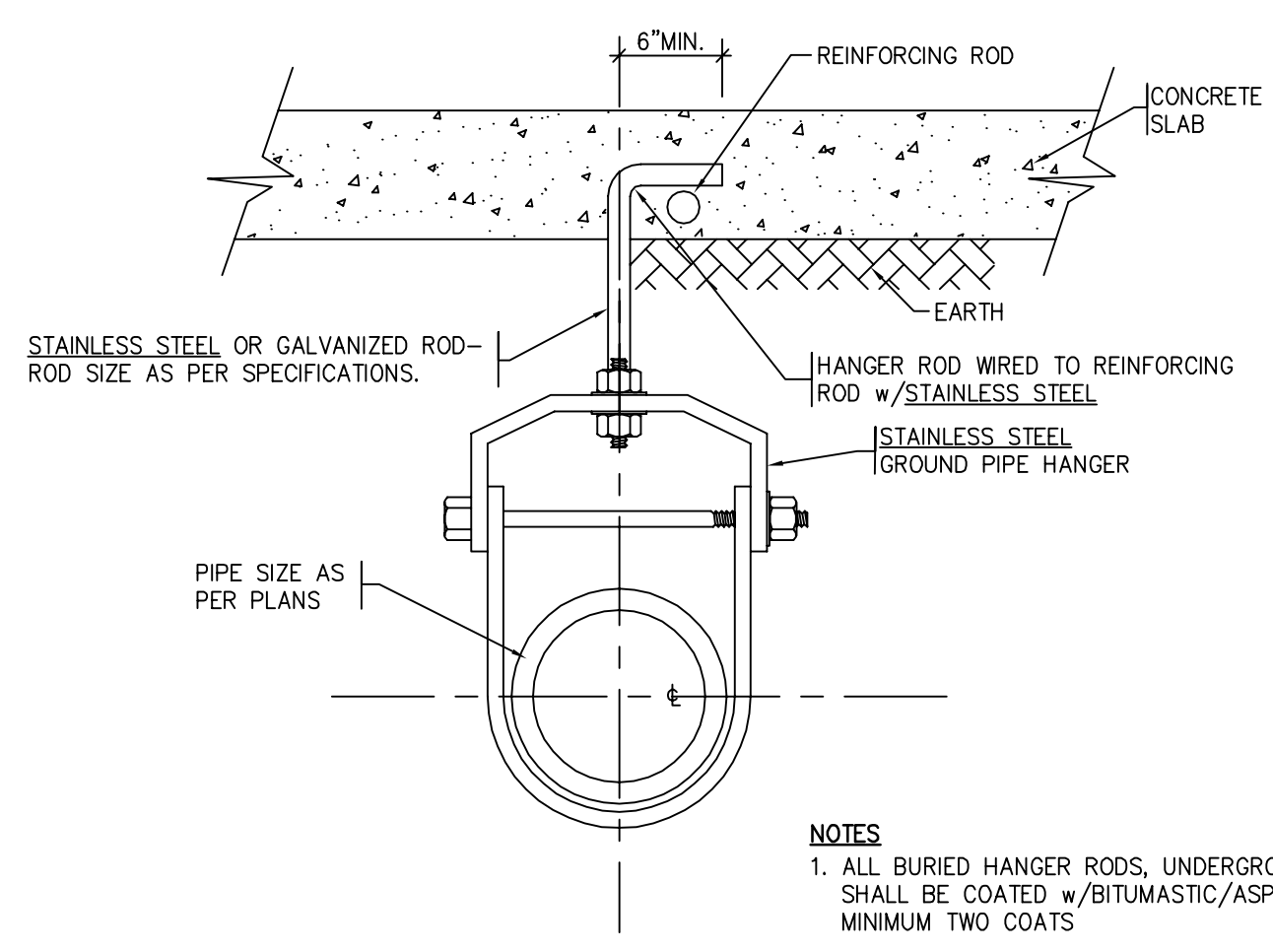
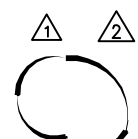
CONSTRUCTION GROUP

225 LIBERTY STREET, 4TH FLOOR
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TEL: (212) 321-6800

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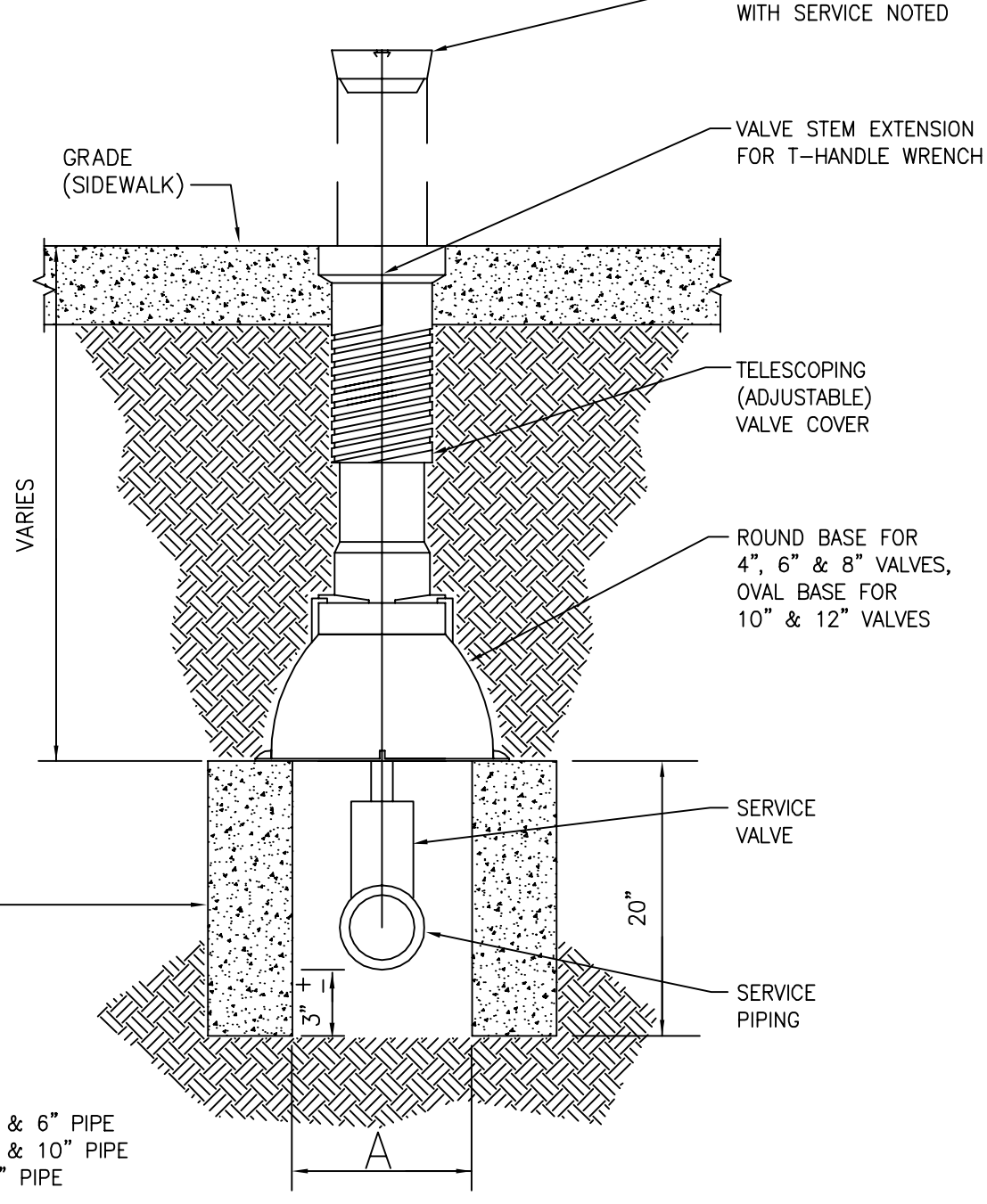
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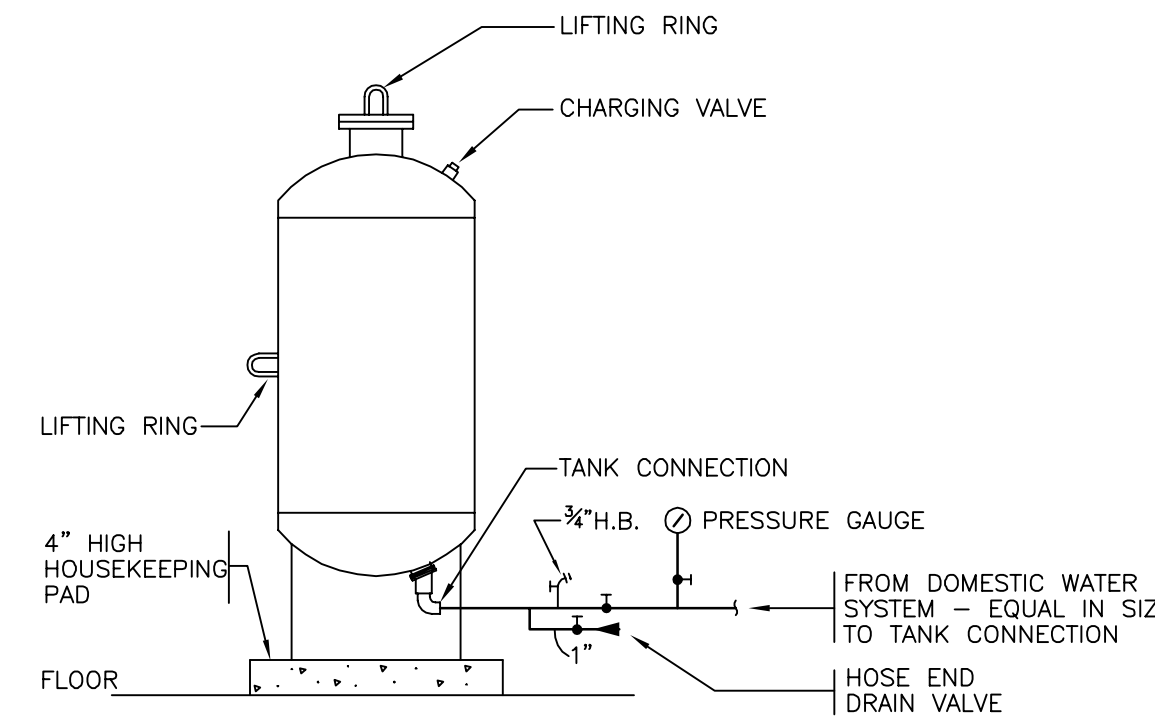
PIPE SUPPORT FOR UNDERGROUND DRAINAGE PIPING

NOT TO SCALE



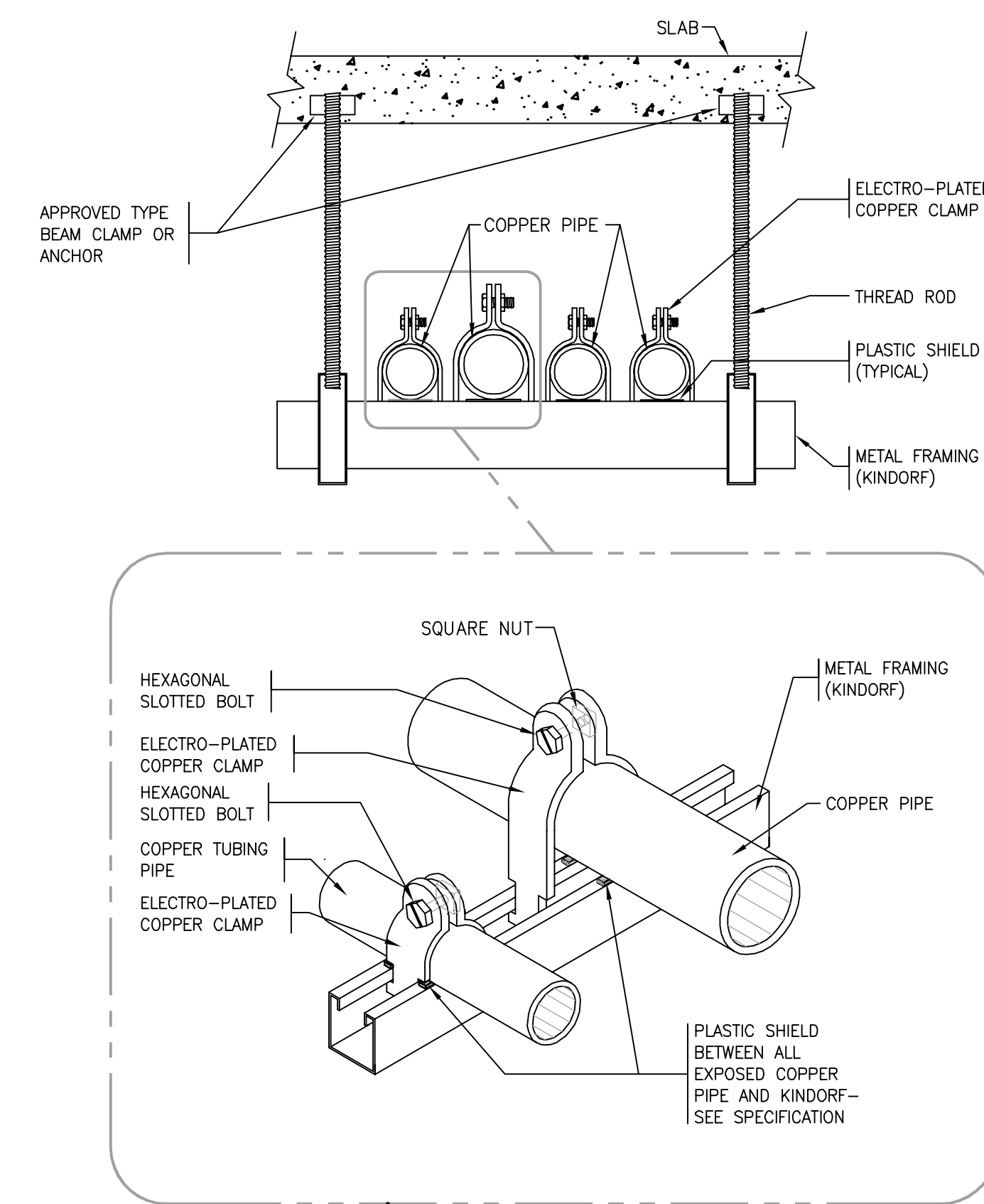
TYPICAL SERVICE VALVE BOX DETAIL

NOT TO SCALE



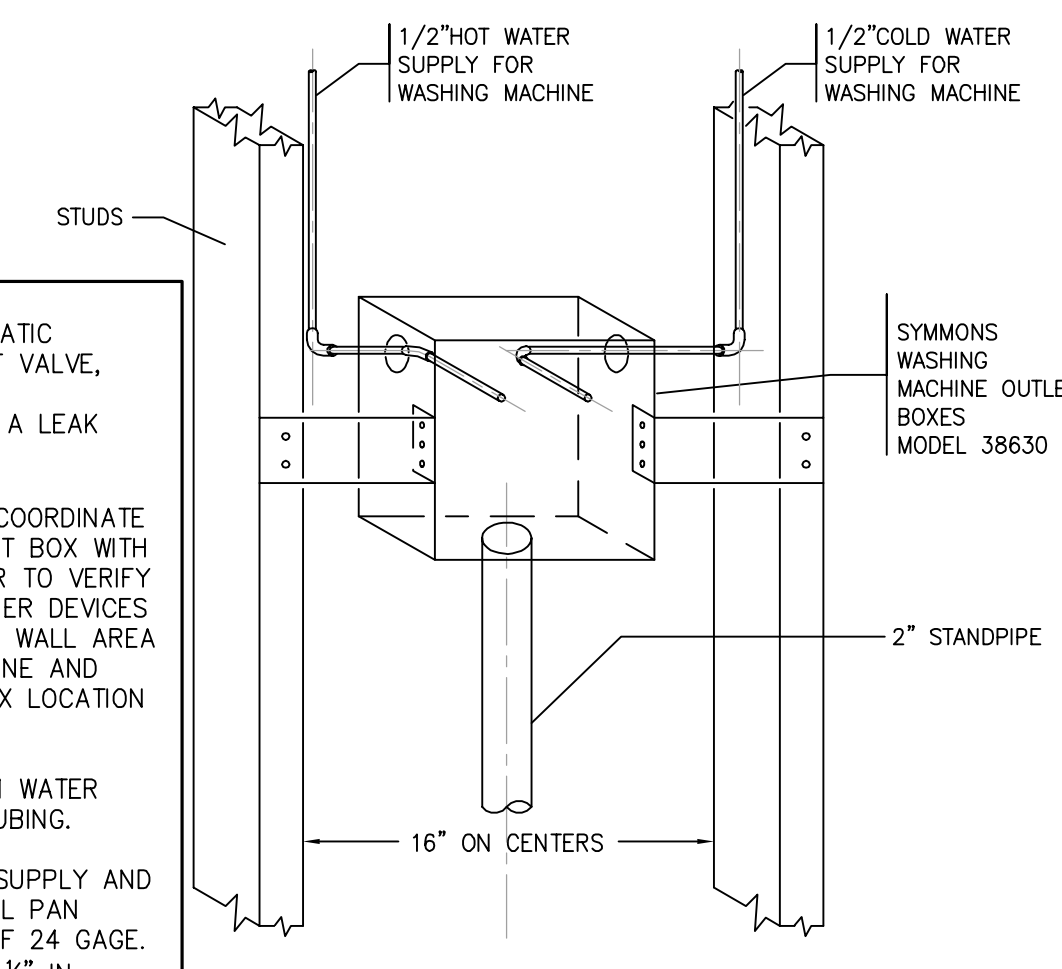
SCHEMATIC DIAGRAM OF DOMESTIC WATER HYDROPNEUMATIC TANK

NOT TO SCALE



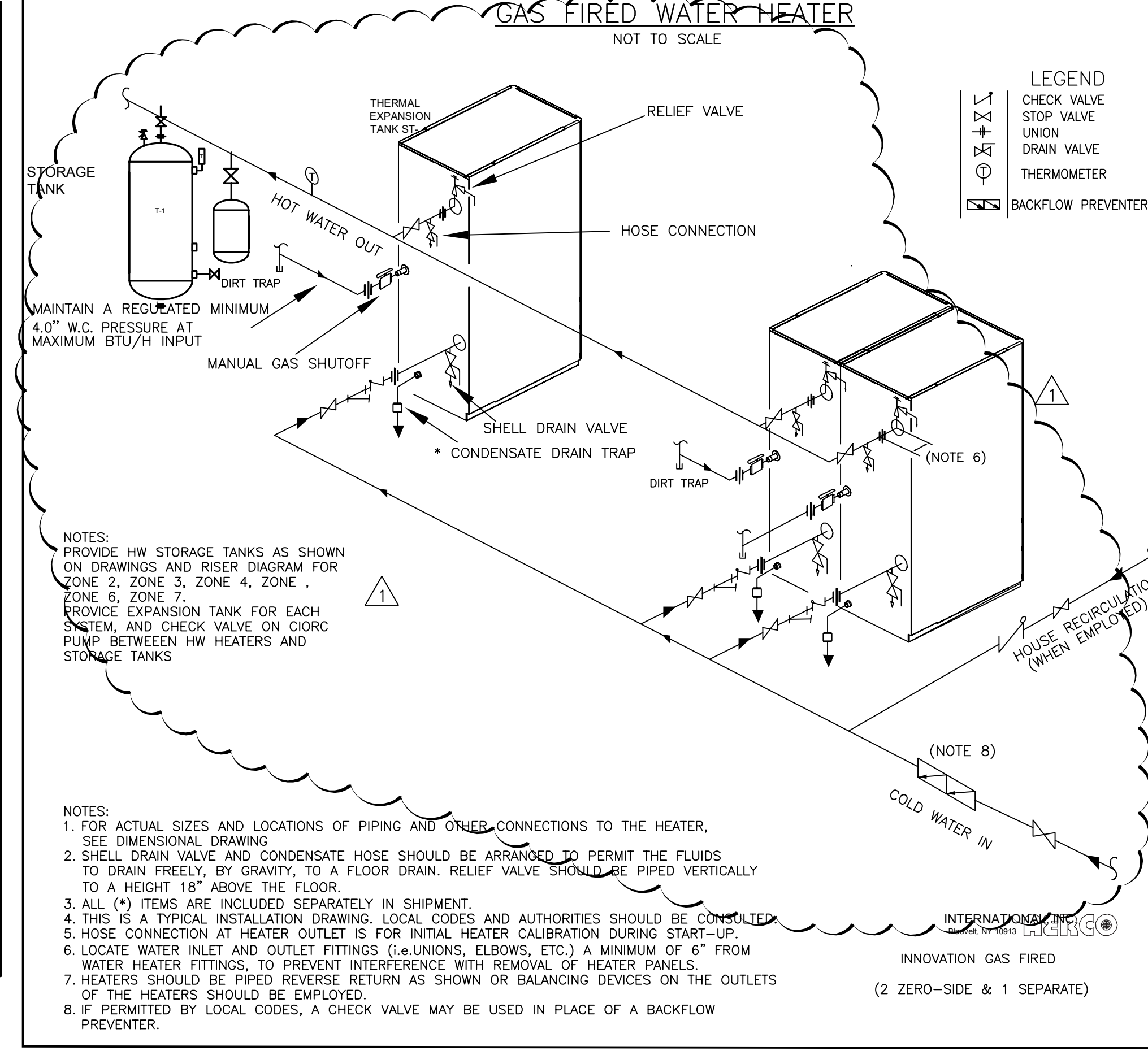
TYPICAL SUPPORT DETAIL

NOT TO SCALE



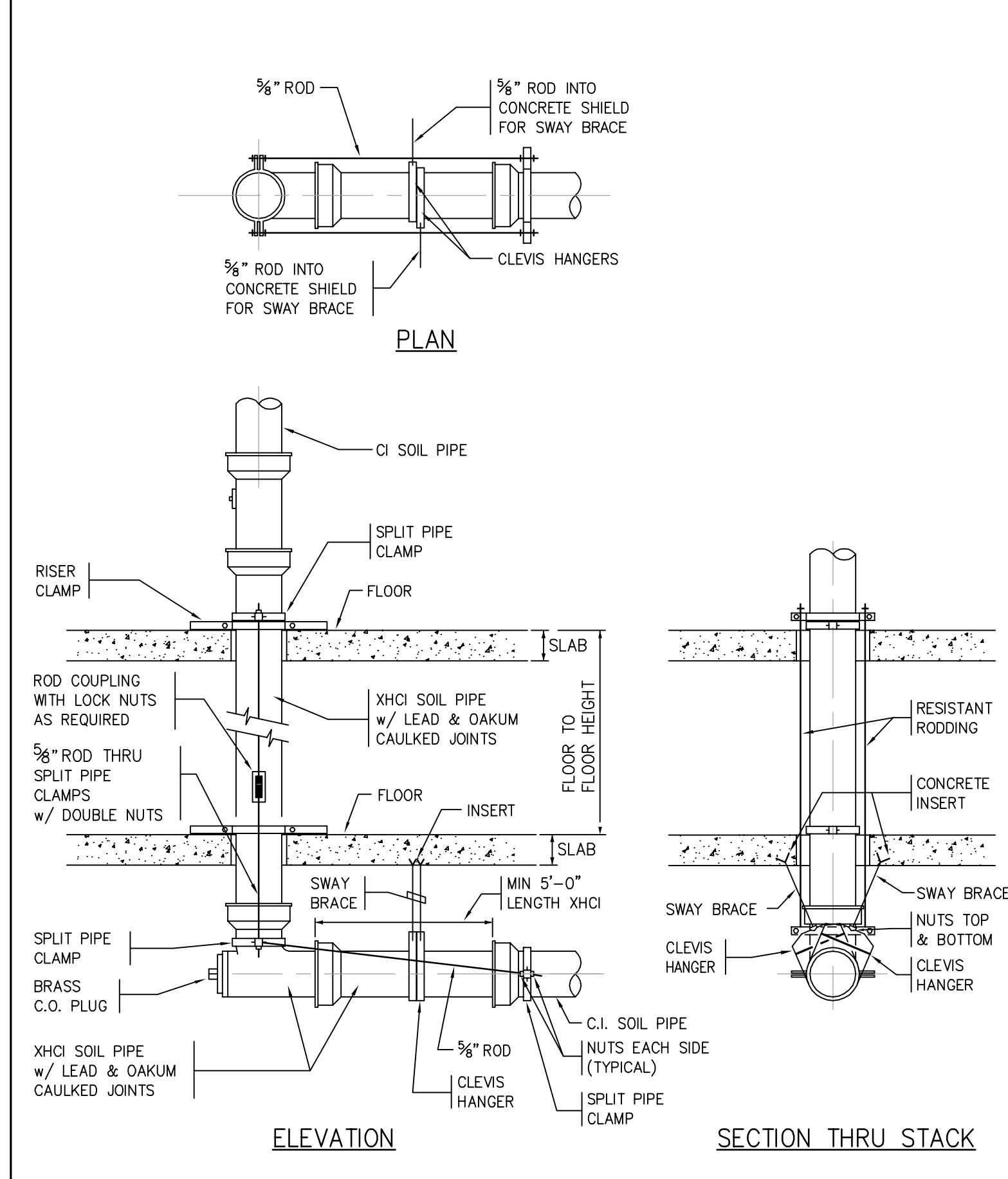
TYPICAL INSTALLATION DETAIL OF SUPPLY & DRAIN IN WALL FIXTURE

NOT TO SCALE



- NOTES:
1. FOR ACTUAL SIZES AND LOCATIONS OF PIPING AND OTHER CONNECTIONS TO THE HEATER, SEE DIMENSIONAL DRAWING.
 2. SHELL DRAIN VALVE AND CONDENSATE HOSE SHOULD BE ARRANGED TO PERMIT THE FLUIDS TO DRAIN FREELY BY GRAVITY. TO A FLOOR DRAIN. RELIEF VALVE SHOULD BE PIPED VERTICALLY TO A HEIGHT 18\"/>
 3. ALL () ITEMS ARE INCLUDED SEPARATELY IN SHIPMENT.
 4. THIS IS A TYPICAL INSTALLATION DRAWING. LOCAL CODES AND AUTHORITIES SHOULD BE CONSULTED.
 5. HOSE CONNECTION AT HEATER OUTLET IS FOR INITIAL HEATER CALIBRATION DURING START-UP.
 6. LOCATE WATER INLET AND OUTLET FITTINGS (GARDING, ELBOWS, ETC.) A MINIMUM OF 6\"/>
 7. HEADERS SHOULD BE PIPED REVERSE RETURN AS SHOWN OR BALANCING DEVICES ON THE OUTLETS OF THE HEATERS SHOULD BE EMPLOYED.
 8. IF PERMITTED BY LOCAL CODES, A CHECK VALVE MAY BE USED IN PLACE OF A BACKFLOW PREVENTER.

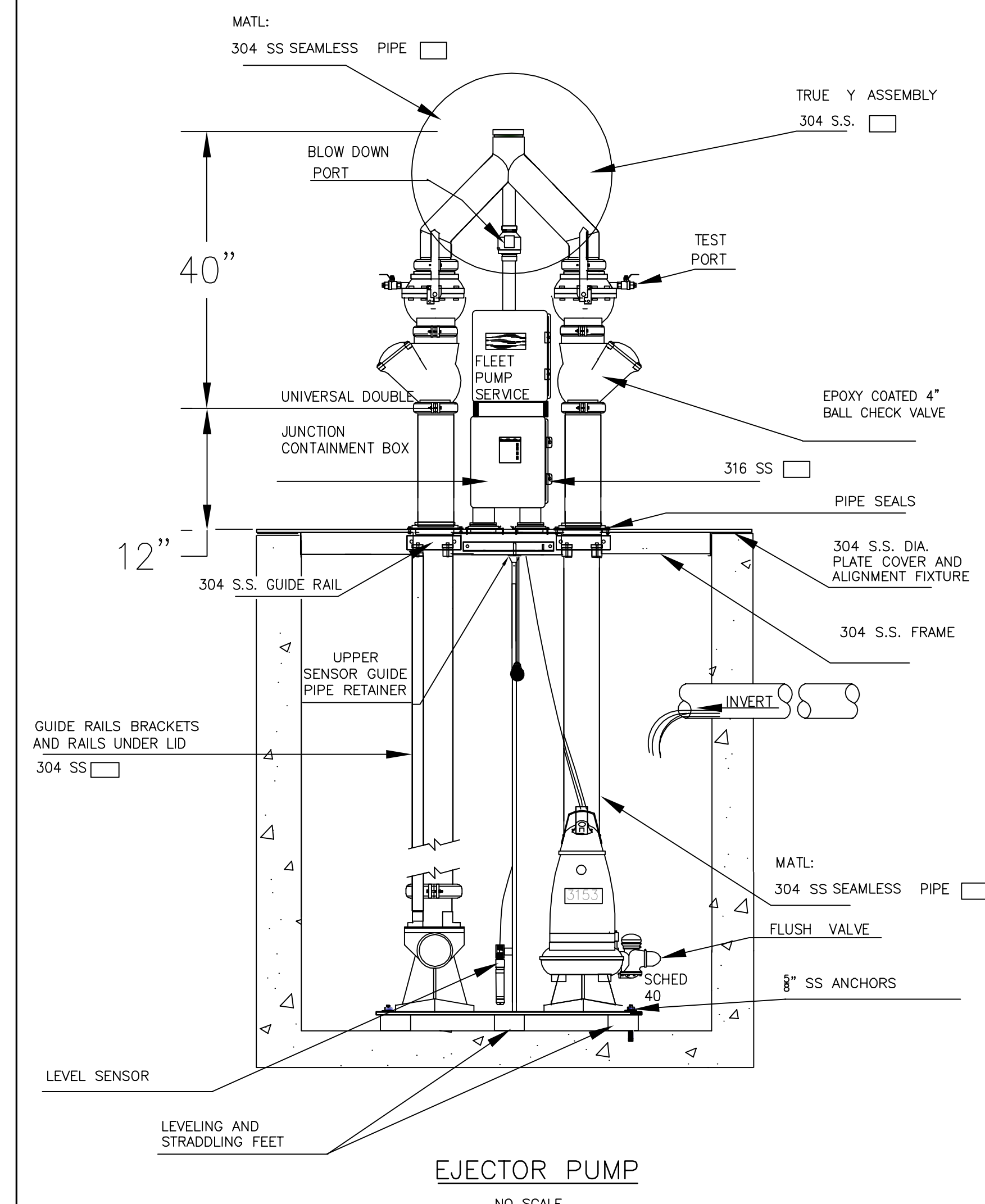
INNOVATION GAS FIRED
(2 ZERO-SIDE & 1 SEPARATE)



DETAIL OF PIPING AT BASE OF STACKS
BASE OF LEADERS SIMILAR

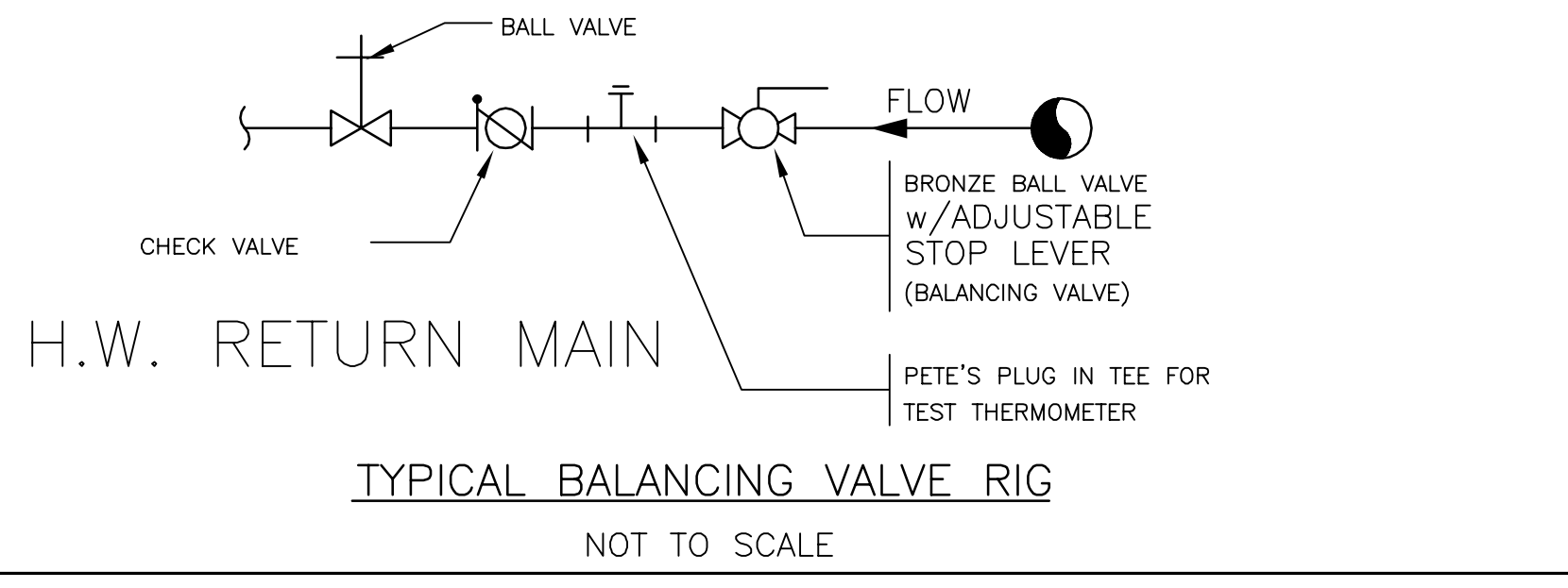
NO SCALE

THIS DETAIL USED @ BASE OF HIGH RISE BUILDINGS
STACKS (WHERE HIGH HEAD CONDITIONS MIGHT OCCUR
DUE TO LINE BLOCKAGES, HIGH STATIC HEADS, ETC.)



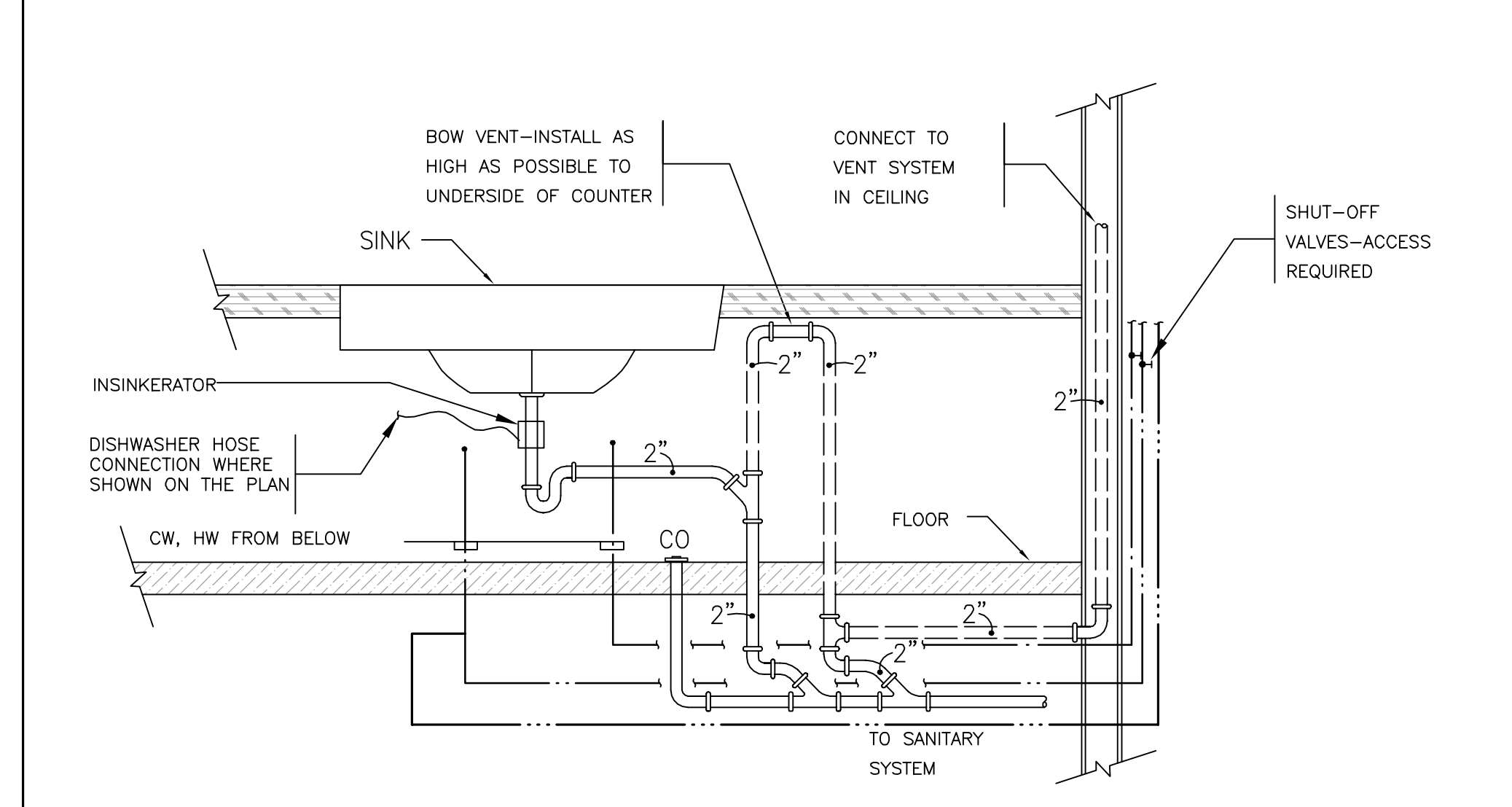
EJECTOR PUMP

NO SCALE



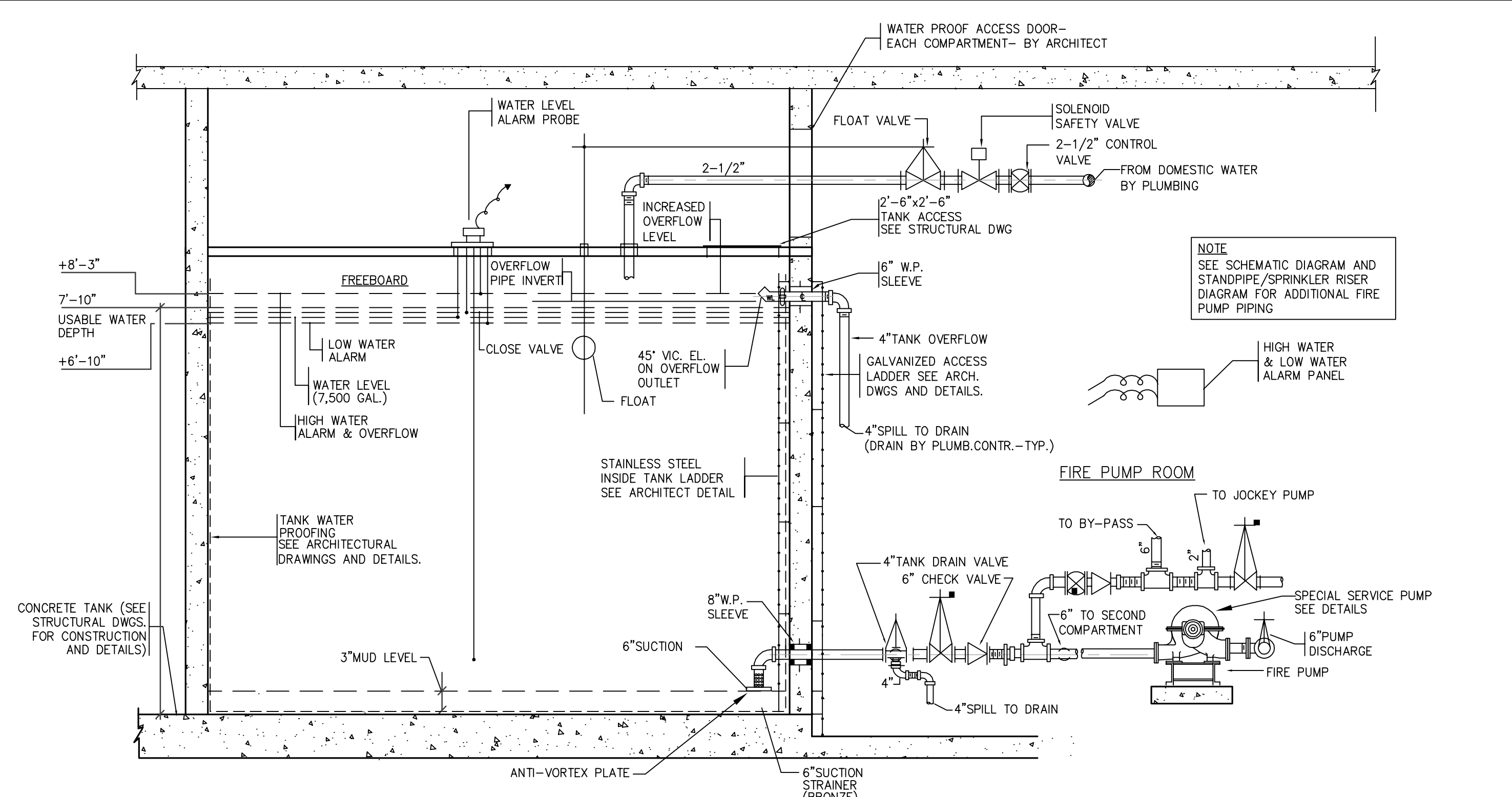
(ALTERNATE) TYPICAL BALANCING VALVE RIG

NO SCALE



DETAIL OF ISLAND SINK BOW VENT

SCALE: NONE

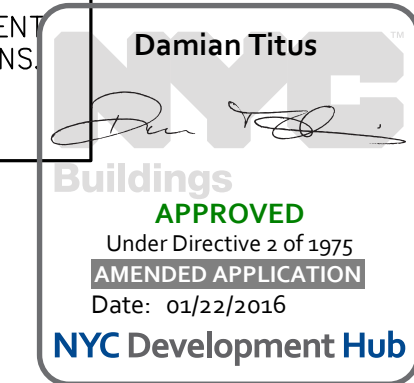


SCHEMATIC DIAGRAM OF SUPPLY PIPING AND CONTROLS
FOR A FIRE RESERVE 2 COMPARTMENT CONCRETE TANK
(TYPICAL FOR EACH COMPARTMENT)

NOT TO SCALE

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
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New York, NY.

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Brookfield Place, 250 Vesey Street
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2016-05-02 Revisions
2014-12-15 Issued for GMP
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2014-10-09 Revisions #1
2014-09-09 Issued for Construction
2014-08-01 RRS Construction Documents
2014-04-02 Issued for SDC Construction Documents
2014-03-12 Issued for DOR Rtg.
2014-03-14 Design Development
DATE: REVISION:
D.O.B. REVISION:
NB#
NOTES:
Scale: NTS
0 4 8 12 16 20
KEY PLAN:

PROJECT:

**MANHATTAN WEST
NEW YORK, NEW YORK**

DRAWING TITLE:

**PLUMBING
DETAIL SHEET #1**

SEAL & SIGNATURE:

DATE: 02/17/2014
PROJECT NO.: 12018702
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CHECKED BY: GS
P-501.01
SHEET NO.: 30 of 31
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