

P L U M B I N G D R A W I N G L I S T									
#	DRAWING NUMBER	DRAWING TITLE	SCALE	DESIGN DEVELOPMENT	50% CONSTRUCTION DOCUMENT	80% CONSTRUCTION DOCUMENT	ISSUED TO DOB		
				07.15.11	09.15.11	12.08.11	07.02.12		
1	P-000.00	PLUMBING DRAWING LIST, SYMBOLS AND ABBREVIATIONS	NONE	●	●	●	●		
2	P-001.00	PLUMBING SCOPE OF WORK	NONE	●	●	●	●		
3	P-1000.00	PLUMBING UNDERGROUND FLOOR PLAN	1/8"=1'-0"			●	●		
4	P-100.00	PLUMBING CELLAR FLOOR PLAN	1/8"=1'-0"	●	●	●	●		
5	P-101.00	PLUMBING 1ST FLOOR PLAN	1/8"=1'-0"	●	●	●	●		
6	P-102.00	PLUMBING 2ND FLOOR PLAN	1/8"=1'-0"	●	●	●	●		
7	P-103.00	PLUMBING 3RD FLOOR PLAN	1/8"=1'-0"	●	●	●	●		
8	P-104.00	PLUMBING 4TH FLOOR PLAN	1/8"=1'-0"	●	●	●	●		
9	P-105.00	PLUMBING 5TH FLOOR PLAN	1/8"=1'-0"	●	●	●	●		
10	P-106.00	PLUMBING 6TH FLOOR PLAN	1/8"=1'-0"	●	●	●	●		
11	P-107.00	PLUMBING 7TH-10TH FLOOR PLANS	1/8"=1'-0"		●	●	●		
12	P-110.00	PLUMBING 10TH FLOOR PLAN (DELETE)	1/8"=1'-0"		●	●	●		
13	P-111.00	PLUMBING 11TH FLOOR PLAN	1/8"=1'-0"		●	●	●		
14	P-112.00	PLUMBING 12TH-19TH FLOOR PLANS	1/8"=1'-0"	●	●	●	●		
15	P-113.00	PLUMBING 13TH-18TH FLOOR PLANS (DELETE)	1/8"=1'-0"		●	●	●		
16	P-119.00	PLUMBING 19TH FLOOR PLAN (DELETE)	1/8"=1'-0"		●	●	●		
17	P-120.00	PLUMBING 20TH FLOOR PLAN	1/8"=1'-0"		●	●	●		
18	P-121.00	PLUMBING 21TH-30TH FLOOR PLANS	1/8"=1'-0"	●	●	●	●		
19	P-130.00	PLUMBING 30ST FLOOR PLAN (DELETE)	1/8"=1'-0"		●	●	●		
20	P-131.00	PLUMBING 31ST FLOOR PLAN	1/8"=1'-0"		●	●	●		
21	P-132.00	PLUMBING 32ND-42ND FLOOR PLANS	1/8"=1'-0"	●	●	●	●		
22	P-143.00	PLUMBING 43RD FLOOR PLAN	1/8"=1'-0"		●	●	●		
23	P-144.00	PLUMBING MAIN ROOF PLAN	1/8"=1'-0"	●	●	●	●		
24	P-145.00	PLUMBING ELEVATOR MACHINE ROOM PLAN	1/8"=1'-0"	●	●	●	●		
25	P-500.00	PLUMBING WATER RISER DIAGRAM SHEET 1	NONE	●	●	●	●		
26	P-501.00	PLUMBING WATER RISER DIAGRAM SHEET 2	NONE	●	●	●	●		
27	P-502.00	PLUMBING WATER RISER DIAGRAM SHEET 3	NONE	●	●	●	●		
28	P-503.00	PLUMBING WATER RISER DIAGRAM SHEET 4	NONE	●	●	●	●		
29	P-504.00	PLUMBING WATER RISER DIAGRAM SHEET 5	NONE	●	●	●	●		
30	P-510.00	PLUMBING SANITARY RISER DIAGRAM SHEET 1	NONE	●	●	●	●		
31	P-511.00	PLUMBING SANITARY RISER DIAGRAM SHEET 2	NONE	●	●	●	●		
32	P-512.00	PLUMBING SANITARY RISER DIAGRAM SHEET 3	NONE	●	●	●	●		
33	P-513.00	PLUMBING SANITARY RISER DIAGRAM SHEET 4	NONE	●	●	●	●		
34	P-514.00	PLUMBING SANITARY RISER DIAGRAM SHEET 5	NONE	●	●	●	●		
35	P-515.00	PLUMBING SANITARY RISER DIAGRAM SHEET 6	NONE	●	●	●	●		
36	P-516.00	PLUMBING SANITARY RISER DIAGRAM SHEET 7	NONE	●	●	●	●		
37	P-520.00	PLUMBING STORM RISER DIAGRAM	NONE	●	●	●	●		
38	P-530.00	PLUMBING GAS RISER DIAGRAM SHEET 1	NONE	●	●	●	●		
39	P-531.00	PLUMBING GAS RISER DIAGRAM SHEET 2	NONE	●	●	●	●		
40	P-532.00	PLUMBING GAS RISER DIAGRAM SHEET 3	NONE	●	●	●	●		
41	P-533.00	PLUMBING GAS RISER DIAGRAM SHEET 4	NONE	●	●	●	●		
42	P-600.00	PLUMBING DETAILS	NONE	●	●	●	●		
43	P-700.00	PLUMBING SCHEDULES SHEET 1	NONE	●	●	●	●		
44	P-701.00	PLUMBING SCHEDULES SHEET 2	NONE	●	●	●	●		

ABBREVIATIONS	
ABD	AUTOMATIC BALL DRIP
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
BLDG	BUILDING
BDP	BOTTOM OF PIPE
CD	CLEANOUT
CDP	CLEANOUT DECK PLATE
CV	CHECK VALVE
CW	COLD WATER
CLG	CEILING
CONN	CONNECT
CONT	CONTINUATION
DIA	DIAMETER
DN	DOWN (PENETRATES FLOOR SLAB)
DR	DRAIN
DWG	DRAWING
ED	EJECTOR DISCHARGE
EL	ELEVATION
ESP	ELEVATOR SUMP PUMP
EWQ	ELECTRIC WATER COOLER
F-7	PLUMBING FIXTURE TYPE (SEE SPECIFICATION)
FAI	FRESH AIR INLET
FD	FLOOR DRAIN
FU	FIXTURE UNIT
FL	FLOOR
FT	FEET
G	GAS
GC	GENERAL CONTRACTOR
GD	GARAGE DRAIN
GPM	GALLONS PER MINUTE
GAL	GALLONS
GW	GARAGE WASTE
HB	HOSE BIBB
HCLG	HUNG CEILING
HW	HOT WATER
HW	HOT WATER RETURN
ID	INSIDE DIAMETER
IW	INDIRECT WASTE
IN	INCH
LAV	LAVATORY
MR	MOP RECEPTOR
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
NC	NORMALLY CLOSED
NOT	NOT IN THIS CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OS&Y	OUTSIDE SCREW & YOK® GATE VALVE
PD	PUMP DISCHARGE
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH (ABSOLUTE)
PSI	POUNDS PER SQUARE INCH (GAUGE)
RT	RUNNING TRAP
SA	SHOCK ABSORBER
SAN	SANITARY
SPB	SUMP PUMP DISCHARGE
SS	SLOP SINK

ABBREVIATIONS (CONTINUED)	
SQ FT	SQUARE FOOT
ST	STORM
TYP	TYPICAL
UN	UNLESS OTHERWISE NOTED
UP	UP (PENETRATES FLOOR SLAB)
UR	URINAL
V	VENT
VB	VACUUM BREAKER
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WH	WALL HYDRANT

LEGENDS	
	SANITARY PIPING
	VENT PIPING (SANITARY)
	STORM PIPING
	PIPING BURIED (SERVICE NOTED)
	PUMP DISCHARGE PIPING
	ACID WASTE PIPING
	ACID WASTE PIPING
	LAB WASTE PIPING
	LAB VENT PIPING
	INDIRECT WASTE PIPING
	EJECTOR DISCHARGE PIPING
	SUMP DISCHARGE PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	DOMESTIC HOT WATER CIRCULATION PIPING
	DOMESTIC HOT WATER (STREET PRESSURE)
	DOMESTIC HOT WATER (STREET PRESSURE)
	DOMESTIC COLD WATER ZONE PIPING
	DOMESTIC HOT WATER ZONE PIPING
	DOMESTIC HOT WATER CIRCULATION ZONE PIPING
	DEIONIZED WATER PIPING
	DISTILLED WATER PIPING
	NON-POTABLE WATER
	GAS PIPING
	COMPRESSED AIR PIPING (MEDICAL)
	COMPRESSED AIR PIPING (INDUSTRIAL)
	IRRIGATION PIPING
	VACUUM PIPING
	NITROGEN PIPING
	NITROUS OXIDE PIPING
	OXYGEN PIPING
	HYDROGEN PIPING
	WASTE ANESTHESIA GAS DISPOSAL
	CENTER LINE
	EXISTING PIPING TO REMAIN
	EXISTING PIPING TO BE REMOVED
	EXISTING PIPING TO BE ABANDONED
	INSULATED AND HEAT TRACED PIPING
	SLOPED CHANGE IN PIPE ELEVATION
	ARROW INDICATES DIRECTION OF FLOW
	PITCH PIPE DOWN IN DIRECTION OF ARROW
	POINT OF NEW CONNECTION TO EXISTING WORK

LEGENDS (CONTINUED)	
	SHOCK ABSORBER
	ANCHOR
	FLEXIBLE CONNECTION
	EXPANSION LOOP SIZE
	HOSE BIBB
	WALL HYDRANT
	FRESH AIR INLET
	CLEAN-OUT / PLUG OUTLET
	CLEAN-OUT DECK PLATE
	"P" TRAP
	CAP
	RUNNING TRAP
	DUPLEX STRAINER
	BASKET STRAINER
	Y STRAINER WITH BLOW OFF VALVE
	VACUUM BREAKER
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	ELBOW TURNED DOWN
	ELBOW TURNED UP / CONN. TO VERTICAL LINE
	VALVE IN VERTICAL
	VALVE (SEE SCHEDULE)
	CHECK VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE (PRV)
	OS&Y (OUTSIDE SCREW & YOK® VALVE
	CHECK VALVE WITH A.B.D.
	FLOAT VALVE
	RELIEF VALVE
	MIXING VALVE
	ANGLE RELIEF VALVE
	BACKFLOW PREVENTER ASSEMBLY
	PRV STATION
	UNION
	REDUCER
	ECCENTRIC REDUCER (E.R.)
	WATER PROOF SLEEVE
	SLEEVE
	PRESSURE GAUGE AND COCK
	THERMOMETER
	DRAIN
	OVERFLOW DRAIN
	PUMP
	METER
	RISER DESIGNATION
	DRAWING #

DEPT OF BUILDINGS

12152717

Jan Number

ESB0678E24

Scan Code

RIVERSIDE CENTER

BUILDING TWO

NEW YORK, NY

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Cristian Petrescu

Buildings

APPROVED
Under Directive 2 of 1975

Date/Time: Jun 26, 2013 - 10:05 AM

NYC Development Hub

4

07/02/2012

ISSUED TO DOB

3

12/08/2011

80% CONSTRUCTION DOCUMENT

2

10/19/2011

50% CONSTRUCTION DOCUMENT

1

07/15/2011

DESIGN DEVELOPMENT

No:

Date:

Revisions:

NORTH ARROW

Scale:

0 0' SC-05 SC-1 SCX-1.5 SCX-2.5

KEY PLAN:

W 43RD STREET

W 42ND STREET

W 41ST STREET

W 40TH STREET

W 39TH STREET

W 38TH STREET

W 37TH STREET

W 36TH STREET

W 35TH STREET

W 34TH STREET

W 33TH STREET

W 32TH STREET

W 31ST STREET

W 30TH STREET

W 29TH STREET

W 28TH STREET

W 27TH STREET

W 26TH STREET

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W 24TH STREET

W 23RD STREET

W 22ND STREET

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W -91ST STREET

W -92ND STREET

W -93RD STREET

W -94TH STREET

W -95TH STREET

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W -97TH STREET

W -98TH STREET

W -99TH STREET

W -100TH STREET

PROJECT:

RIVERSIDE CENTER
BUILDING 2

DRAWING TITLE:

PLUMBING DRAWING LIST,
SYMBOLS AND ABBREVIATIONS

SEAL & SIGNATURE:

DATE: JULY 15, 2011

PROJECT NO:

DRAWN BY:

CHECKED BY:

DRAWING NO:

P-000.00

CADD FILE NO:

N/A

SCOPE OF WORK	ITEMS NOT ON THIS SET	UNRESOLVED ON THIS SET
<p>PLUMBING</p> <ol style="list-style-type: none">1. PROVIDE COMPLETE SANITARY DRAINAGE AND VENT SYSTEMS FOR CONNECTION TO PLUMBING FIXTURES2. PROVIDE TWO DUPLEX SEWAGE EJECTORS FOR ALL DRAINAGE BELOW SEWER LEVEL3. PROVIDE TWO SUMP AND SAND PITS FOR ALL STORM DRAINAGE BELOW SEWER LEVEL4. PROVIDE ONE STORM AND TWO SANITARY SERVICES5. PROVIDE ALL PLUMBING FIXTURES AND TRIM6. PROVIDE WATERS METER AND BACKFLOW PREVENTION DEVICES7. PROVIDE COMPLETE DOMESTIC WATER DISTRIBUTION SYSTEM8. PROVIDE A CONSTANT PRESSURE BOOSTER PUMPS TO SUPPLY DOMESTIC WATER SYSTEM FROM HOUSE TANK9. PROVIDE TRIPLEX HOUSE TANK AND FIRE RESERVE STORAGE TANK FILL PUMPS10. PROVIDE PIPING INSULATION FOR ENTIRE DOMESTIC WATER SYSTEM11. PROVIDE PIPING INSULATION FOR HORIZONTAL RUNS OF STORM DRAINAGE SYSTEM12. PROVIDE DUAL DISTRIBUTION NATURAL GAS SYSTEM (INTERRUPTABLE AND FIRM GAS), SEPERATE METERS AND REGULATORS13. PROVIDE ROOF TANK SUPPLYING FIRE PROTECTION SYSTEMS AND HOUSE TANK SUPPLYING DOMESTIC WATER SYSTEM AS SCHEDULED ON DRAWINGS14. PROVIDE CONNECTIONS TO SITE WATER MAIN AND GAS MAIN.15. PROVIDE WATER METERS AND BACK FLOW PREVENTORS FOR INCOMING DOMESTIC WATER AND FIRE SERVICES.16. PROVIDE GAS METERS. <p>17. <u>GENERAL NOTES.</u></p> <ol style="list-style-type: none">A. PROVIDE VACUUM BREAKER AND SHUTOFF VALVE AT EACH CONNECTION TO REFRIGERATOR. VALVES TO BE LOCATED BEHIND WALL AND ACCESS DOOR PROVIDED.B. VERTICAL OFFSETS IN BUILDING DRAINS: WHERE AN OFFSET BETWEEN HORIZONTAL PORTIONS OF THE BUILDING HOUSE DRAIN RISES VERTICALLY MORE THAN 10ft, A RELIEF VENT SHALL BE PROVIDED AT THE TOP OF THE VERTICAL OFFSET. THE SIZE OF SUCH RELIEF VENT SHALL BE AT LEAST HALF THE DIAMETER OF THE BUILDING HOUSE DRAIN AT THE OFFSET AND AT A SUFFICIENT HEIGHT SO THAT THE RELIEF VENTS CANNOT SERVE AS SOIL OR WASTE PIPES IN THE EVENT OF A STOPPAGE IN THE VERTICAL OFFSET.C. SOIL AND WASTE STACKS MORE THAN TEN STORES HIGH: SOIL AND WASTE STACK MORE THAN TEN STORES HIGH SHALL BE PROVIDED WITH YOKE RELIEF VENT AT EACH TENTH STORY, COUNTING FROM THE TOP STORY. THE LOWER END OF THE YOKE VENT SHALL CONNECT TO THE SOIL OR WASTE STACK THROUGH A WYE LOCATED BELOW THE HORIZONTAL BRANCH DRAIN SERVING FIXTURES IN THAT STORY, AND THE UPPER END SHALL CONNECT TO THE VENT STACK THROUGH A TEE OR INVERTED WYE AT LEAST 3ft. ABOVE THE FLOOR LEVEL.D. LOCATE ALL RISER CONTROL VALVES IN COMMON CORRIDOR.E. PROVIDE HW, CW, DRAIN & GUY GRAY WASHING MACHINE BOX AT ALL WASHING MACHINES.F. PROVIDE SUDS PRESSURE ZONE VENTING AS REQUIRED BY NEW YORK CITY CODE.G. PROVIDE HW & CW HOSE BIBBS IN COMPACTOR ROOMS.H. ALL HW, CW, & HWF RISERS SHALL HAVE RISER CONTROL VALVES.I. PROVIDE A CUT TRAP ON DRAIN FROM SUB-CELLAR LAUNDRY ROOM.		

RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

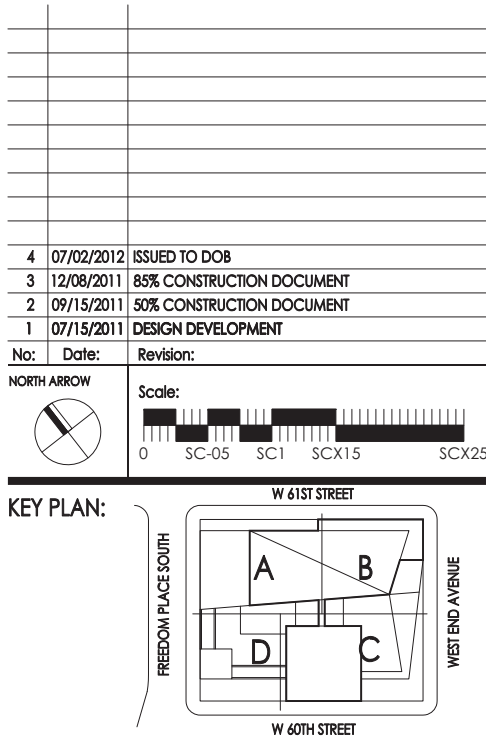
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PROJECT:
RIVERSIDE CENTER
BUILDING 2

DRAWING TITLE:
PLUMBING
SCOPE OF WORK

SEAL & SIGNATURE:
DATE: JULY 15, 2011
PROJECT NO:
DRAWN BY:
CHECKED BY:
DRAWING NO:
P-001.00
CADD FILE NO:
N/A

MECHANICAL ENGINEER:
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APPROVED
Under Directive 2 of 1975
Date/Time: Jun 26, 2013 - 10:05 AM
NYC Development Hub


KEY PLAN:

W 61ST STREET

W 60TH STREET

FREEDOM PLACE SOUTH

WEST END AVENUE

REAL & SIGNATURE:	DATE: JULY 15, 2011
	PROJECT No:
	DRAWN BY: NK
	CHECKED BY: LB
	DRAWING No: P-100.00
	CADD FILE No: P-100

RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
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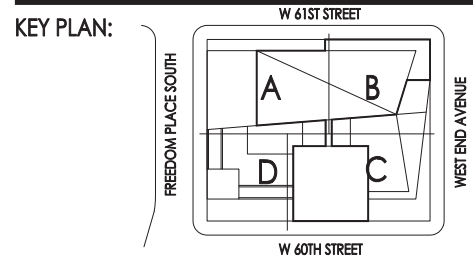
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4	07/02/2012	ISSUED TO DOB
3	12/08/2011	SUB CONSTRUCTION DOCUMENT
2	09/15/2011	SUB CONSTRUCTION DOCUMENT
1	07/16/2011	DESIGN DEVELOPMENT

No.	Date	Revisions
0	SC-05	SC-11 SC-K15 SC-K25

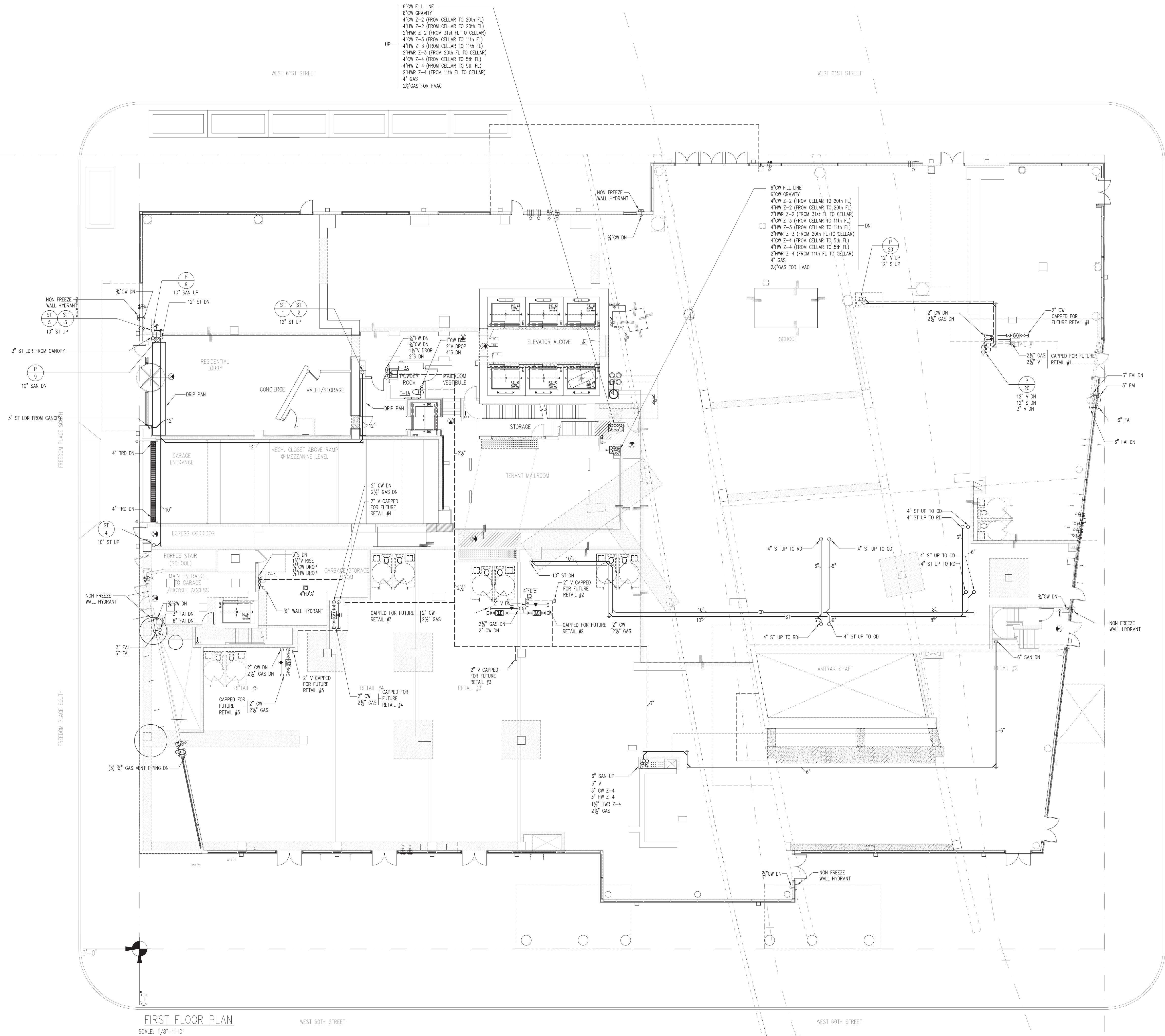


PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

DRAWING TITLE:
**PLUMBING
FIRST FLOOR PLAN**

SEAL & SIGNATURE:
PROJECT NO.:
DRAWN BY: NK
CHECKED BY: LB
DRAWING NO.:
P-101.00
CADD FILE NO.:
N/A

DATE: JULY 15, 2011
PROJECT NO.:
DRAWN BY: NK
CHECKED BY: LB
DRAWING NO.:
P-101.00
CADD FILE NO.:
N/A



FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

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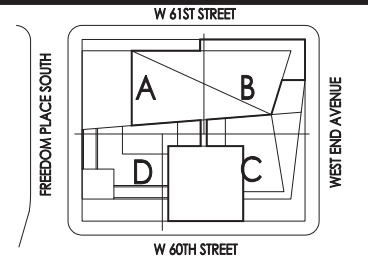
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4	07/02/2012	ISSUED TO DOB
3	12/06/2011	85% CONSTRUCTION DOCUMENT
2	09/15/2011	50% CONSTRUCTION DOCUMENT
1	07/15/2011	DESIGN DEVELOPMENT
Notes	Drawings	Revisions

No:	Date:	Revision:
NORTH ARROW		Scale:
		

KEY PLAN




PROJECT:

RIVERSIDE CENTER
BUILDING 2

DRAWING TITLE:

PLUMBING
SECOND FLOOR PLAN

SEAL & SIGNATURE:	DATE: JULY 15, 2011
	PROJECT No:
	DRAWN BY: NK
	CHECKED BY: LB
	DRAWING No:
	P-102.00
	CADD FILE No: P-102

RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

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F: 212.579.8387

STRUCTURAL ENGINEER:
WSP CANTOR SEINUK
228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T: 212.687.8888
F: 212.687.5501

MECHANICAL ENGINEER:
WSP FLACK+KURTZ
512 SEVENTH AVENUE
NEW YORK, NY 10017
T: 212.532.9600

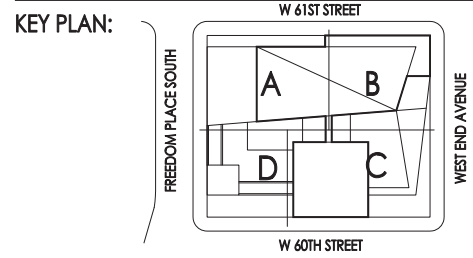


4	07/02/2012	ISSUED TO DOB
3	12/08/2011	SAS CONSTRUCTION DOCUMENT
2	09/19/2011	SAS CONSTRUCTION DOCUMENT
1	07/18/2011	DESIGN DEVELOPMENT

NO: DATE: REVISIONS:

NORTH ARROW:

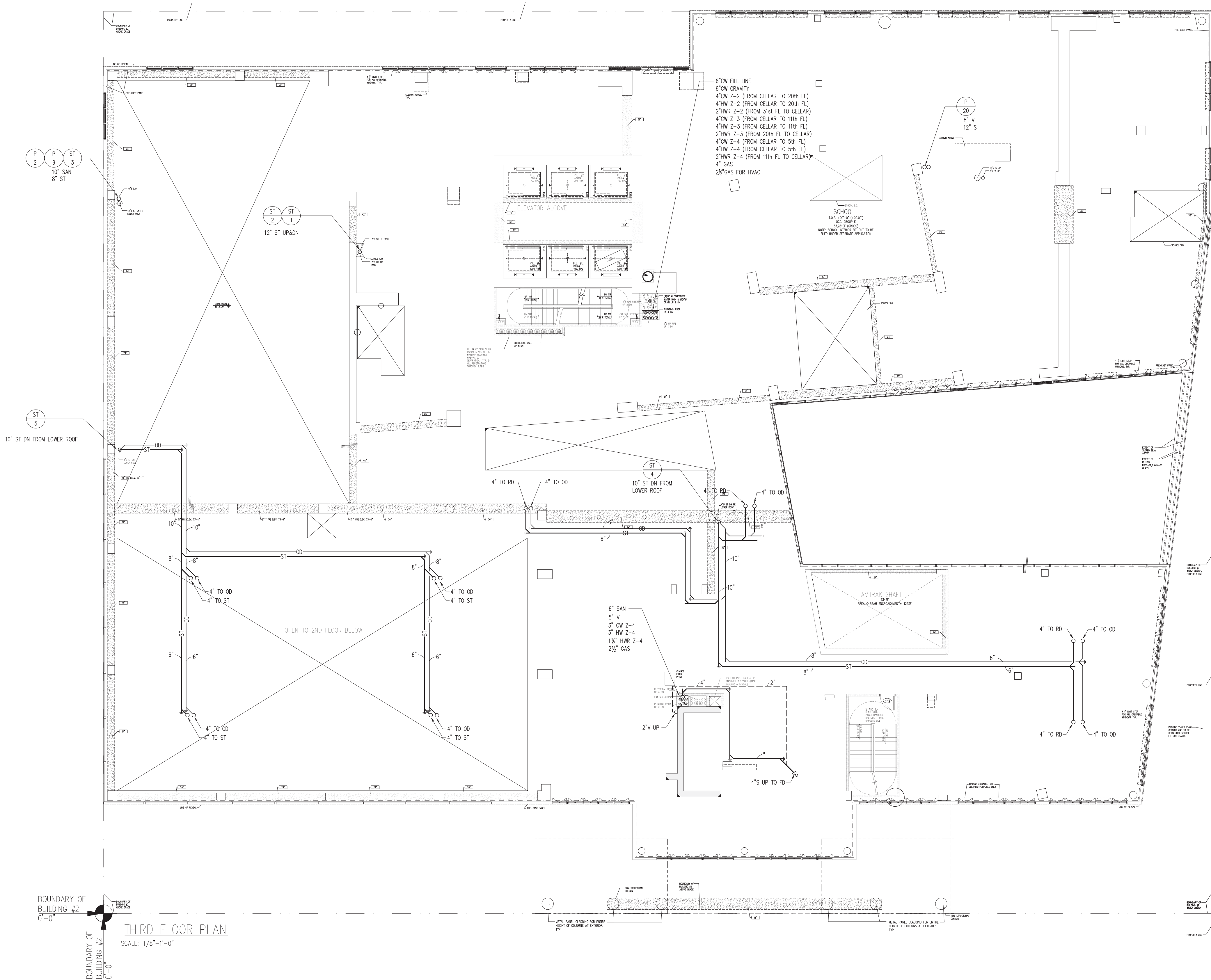
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PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

DRAWING TITLE:
**PLUMBING
THIRD FLOOR PLAN**

SEAL & SIGNATURE: DATE: JULY 15, 2011
PROJECT NO:
DRAWN BY:
CHECKED BY:
DRAWING NO: **P-103.00**
CADD FILE NO:
RHS



RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

423 WEST 47TH STREET
NEW YORK, NY 10036
T: 212.759.4323
F: 212.759.2893

ARCHITECT OF RECORD:
SLCE Architects

841 BROADWAY
NEW YORK, NY 10003
T: 212.579.8400
F: 212.579.8387

STRUCTURAL ENGINEER:
WSP CANTOR SEINUK

228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T: 212.687.8888
F: 212.687.5501

MECHANICAL ENGINEER:
WSP FLACK+KURTZ

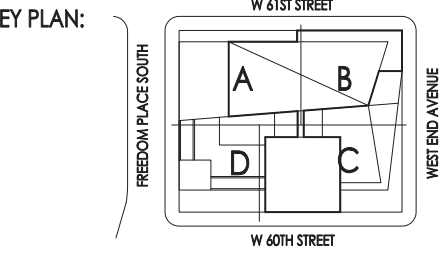
512 SEVENTH AVENUE
NEW YORK, NY 10017
T: 212.532.9600



4	07/02/2012	ISSUED TO DOB
3	12/08/2011	SAS CONSTRUCTION DOCUMENT
2	09/19/2011	SAS CONSTRUCTION DOCUMENT
1	07/16/2011	DESIGN DEVELOPMENT

No.	Date	Revisions
1	07/16/2011	DESIGN DEVELOPMENT

NORTH ARROW	Scale:
0	SC-05 SC-1 SCX15 SCX25

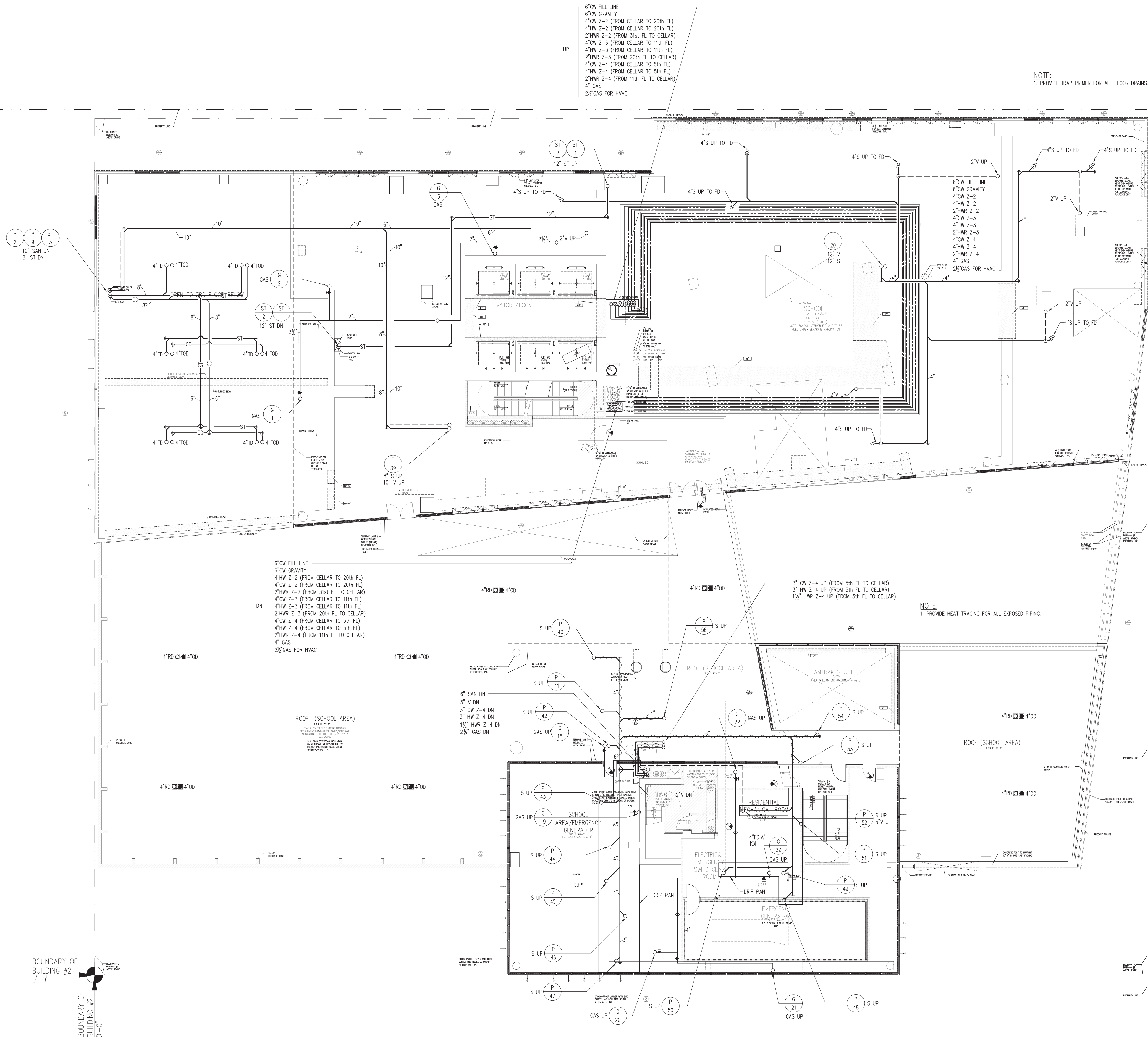


PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

DRAWING TITLE:
**PLUMBING
FOURTH FLOOR PLAN**

SEAL & SIGNATURE:

DATE: JULY 15, 2011
PROJECT NO.:
DRAWN BY: NK
CHECKED BY: LB
DRAWING NO.:
P-104.00
CADD FILE NO.:
RUP



RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

423 WEST 47TH STREET
NEW YORK, NY 10036
T: 212.218.4233
F: 212.249.2893

ARCHITECT OF RECORD:
SLCE Architects
841 BROADWAY
NEW YORK, NY 10003
T: 212.579.8400
F: 212.579.8387

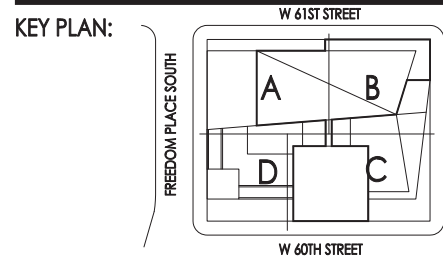
STRUCTURAL ENGINEER:
WSP CANTOR SEINUK
228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T: 212.687.8888
F: 212.687.5501

MECHANICAL ENGINEER:
WSP FLACK+KURTZ
512 SEVENTH AVENUE
NEW YORK, NY 10017
T: 212.532.9600



No.	Date	Revisions
4	07/02/2012	ISSUED TO DOB
3	12/08/2011	BAR CONSTRUCTION DOCUMENT
2	10/19/2011	SBS CONSTRUCTION DOCUMENT
1	07/16/2011	DESIGN DEVELOPMENT

No.	Date	Revisions
1	07/16/2011	DESIGN DEVELOPMENT

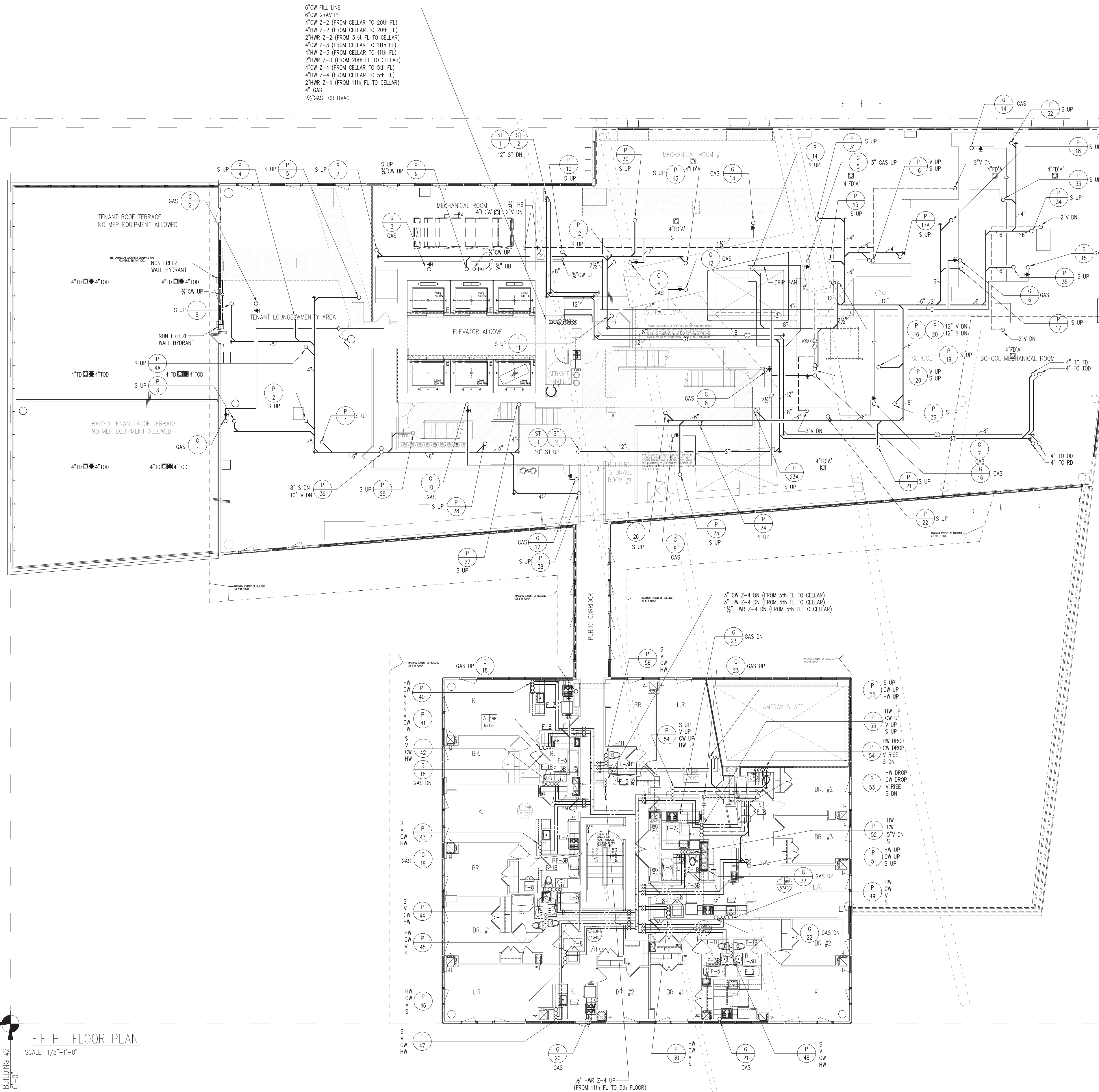


PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

DRAWING TITLE:
**PLUMBING
FIFTH FLOOR PLAN**

SEAL & SIGNATURE:

DATE: JULY 15, 2011
PROJECT NO.:
DRAWN BY: NK
CHECKED BY: LB
DRAWING NO.:
P-105.00
CADD FILE NO.:
HUB



BOUNDARY OF
BUILDING #2
0'-0"

FIFTH FLOOR PLAN
SCALE: 1/8"=1'-0"

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

23 WEST 69TH STREET
NEW YORK, NY 10069
646.218.4203
212.769.2893



ARCHITECT OF RECORD:
MLCE Architects
1 BROADWAY
NEW YORK, NY 10003
212.979.8400
212.979.8387

STRUCTURAL ENGINEER:
JSP CANTOR SEINUK
18 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
212.687.9888
646.487.5501

MECHANICAL ENGINEER:
JSP FLACK+KURTZ
2 SEVENTH AVENUE
NEW YORK, NY 10017
212.532.9600



4	07/02/2012	ISSUED TO DOB
3	12/06/2011	85% CONSTRUCTION DOCUMENT
2	09/15/2011	50% CONSTRUCTION DOCUMENT
1	07/15/2011	DESIGN DEVELOPMENT
	Date:	Revision:

Date:	Revision:
	<p>Scale:</p> 


KEY PLAN: W 61ST STREET

PROJECT:
RIVERSIDE CENTER
BUILDING 2

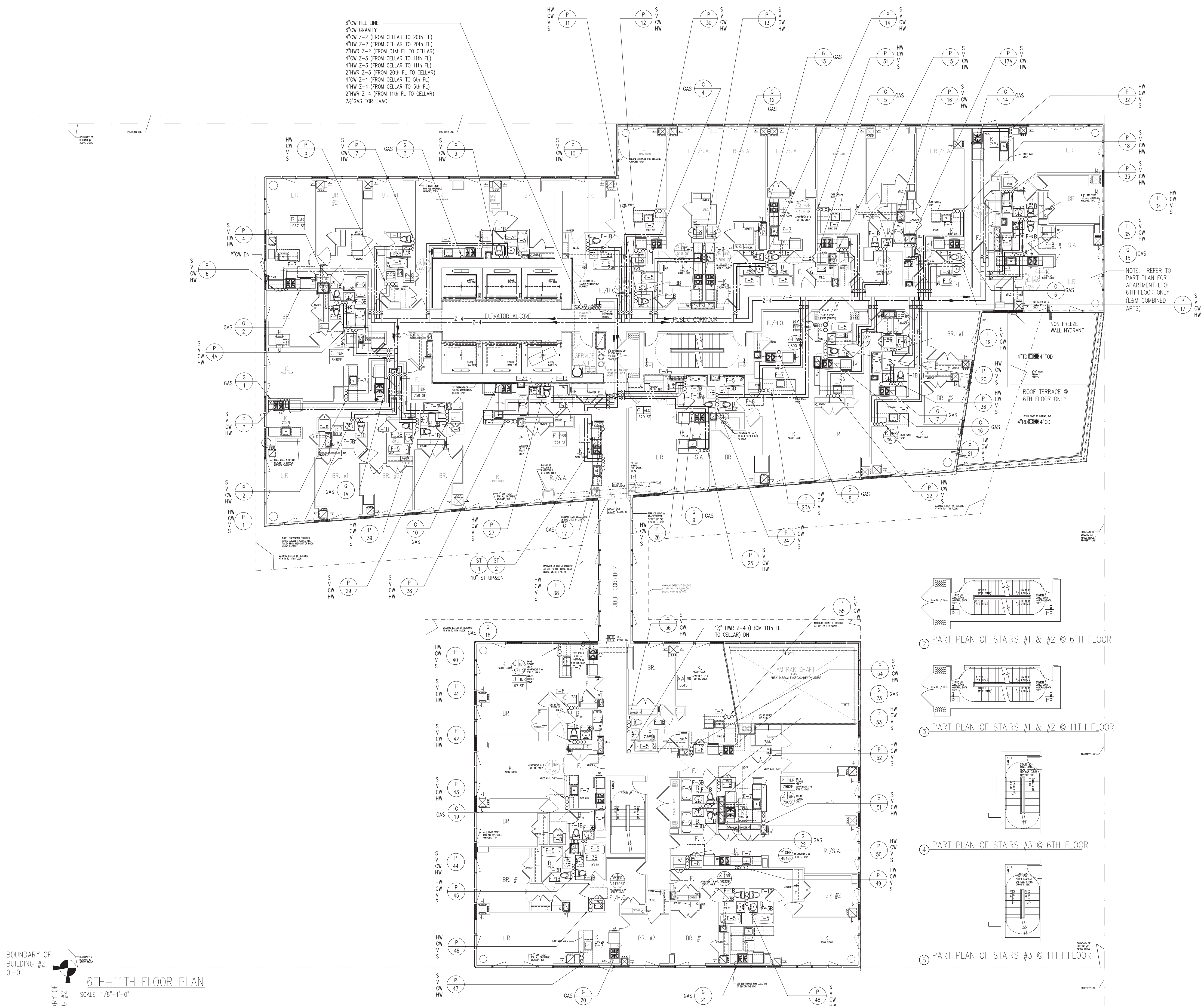
DRAWING TITLE:

PLUMBING
6th FLOOR PLAN

DATE: JULY 15, 2011	AL & SIGNATURE:
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PROJECT No:	
DRAWN BY:	NK
CHECKED BY:	LB
DRAWING No:	P-106.00
CADD FILE No:	P-106



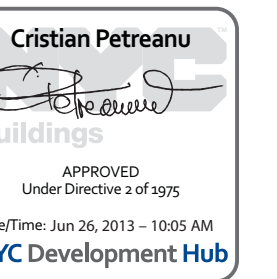
OWNER/DEVELOPER:
XTELL DEVELOPMENT

6 WEST 69TH STREET
NEW YORK, NY 10069
46.218.4203
712.769.2893

CHITECT OF RECORD:
LCE*Architects*
BROADWAY
NEW YORK, NY 10003
212.979.8400
212.979.8387

STRUCTURAL ENGINEER:
JSP CANTOR SEINUK
1 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
212.687.9888
46.487.5501

MECHANICAL ENGINEER:
SP FLACK+KURTZ
2 SEVENTH AVENUE
NEW YORK, NY 10017
212.532.9600



07/02/2012	ISSUED TO DOB
12/08/2011	85% CONSTRUCTION DOCUMENT
09/15/2011	50% CONSTRUCTION DOCUMENT
07/15/2011	DESIGN DEVELOPMENT

TH ARROW

Scale:


0 SC-05 SC1 SCX15 SCX25

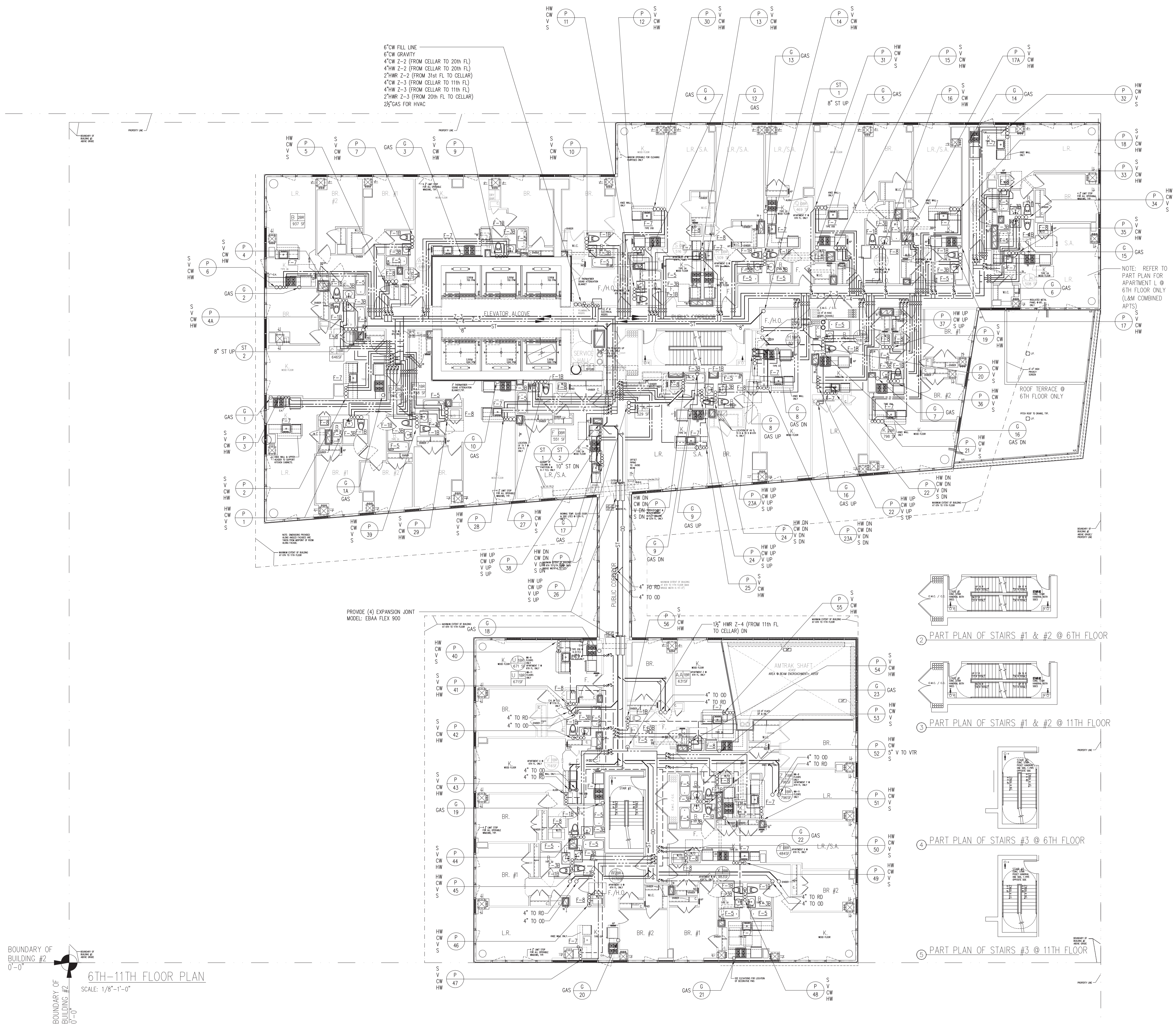
PLAN:

PROJECT:
RIVERSIDE CENTER
BUILDING 2

AWING TITLE:

PLUMBING
11th FLOOR PLAN

	DATE: JULY 15, 2011
	PROJECT No:
	DRAWN BY: NK
	CHECKED BY: LB
	DRAWING No: P-111.00
CADD FILE No: P-111	




MECHANICAL ENGINEER:
WSP FLACK+KURTZ
512 SEVENTH AVENUE
NEW YORK, NY 10017
T.212.532.9600

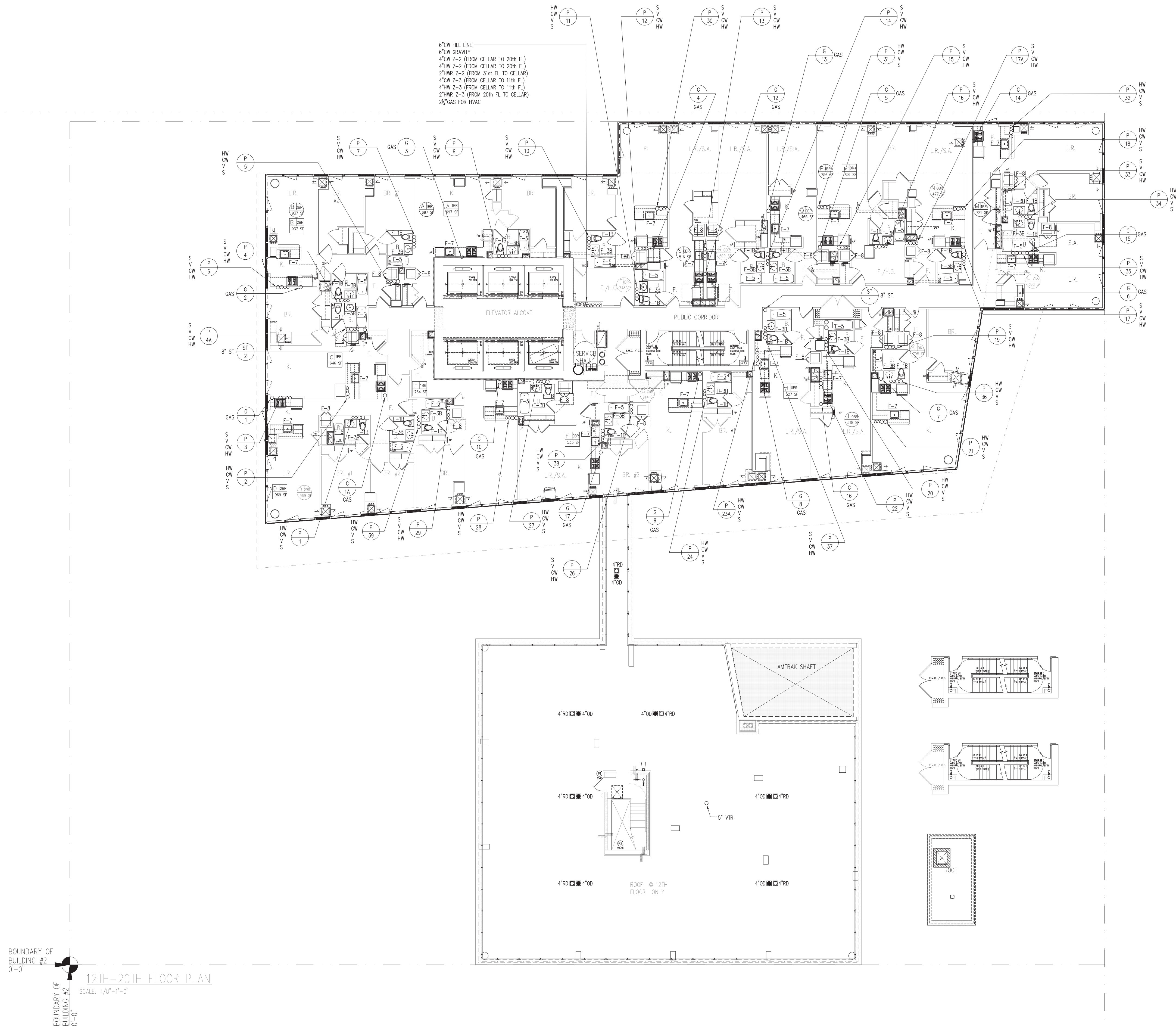


Scale:

0 SC-05 SC1 SCX15 SCX25

KEY PLAN:

SEAL & SIGNATURE:	DATE: JULY 15, 2011
	PROJECT No:
	DRAWN BY: NK
	CHECKED BY: LB
	DRAWING No: P-112.00
	CADD FILE No: P-112



RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

423 WEST 47TH STREET
NEW YORK, NY 10036
T. 212.218.4233
F. 212.249.2893

ARCHITECT OF RECORD:
SLCE Architects
841 BROADWAY
NEW YORK, NY 10003
T. 212.579.8400
F. 212.579.8387

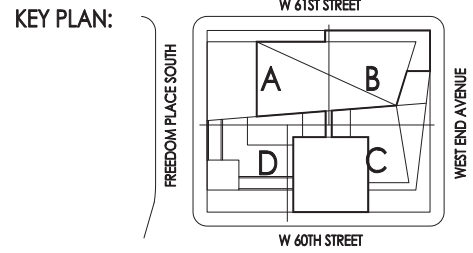
STRUCTURAL ENGINEER:
WSP CANTOR SEINUK
228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T. 212.687.8888
F. 212.687.5501

MECHANICAL ENGINEER:
WSP FLACK+KURTZ
512 SEVENTH AVENUE
NEW YORK, NY 10017
T. 212.532.9600



4	07/02/2012	ISSUED TO DOB
3	12/08/2011	ISS. CONSTRUCTION DOCUMENT
2	09/15/2011	ISS. CONSTRUCTION DOCUMENT
1	07/15/2011	DESIGN DEVELOPMENT

North Arrow
Scale: 0' 5' 10' 15' 20' 25'

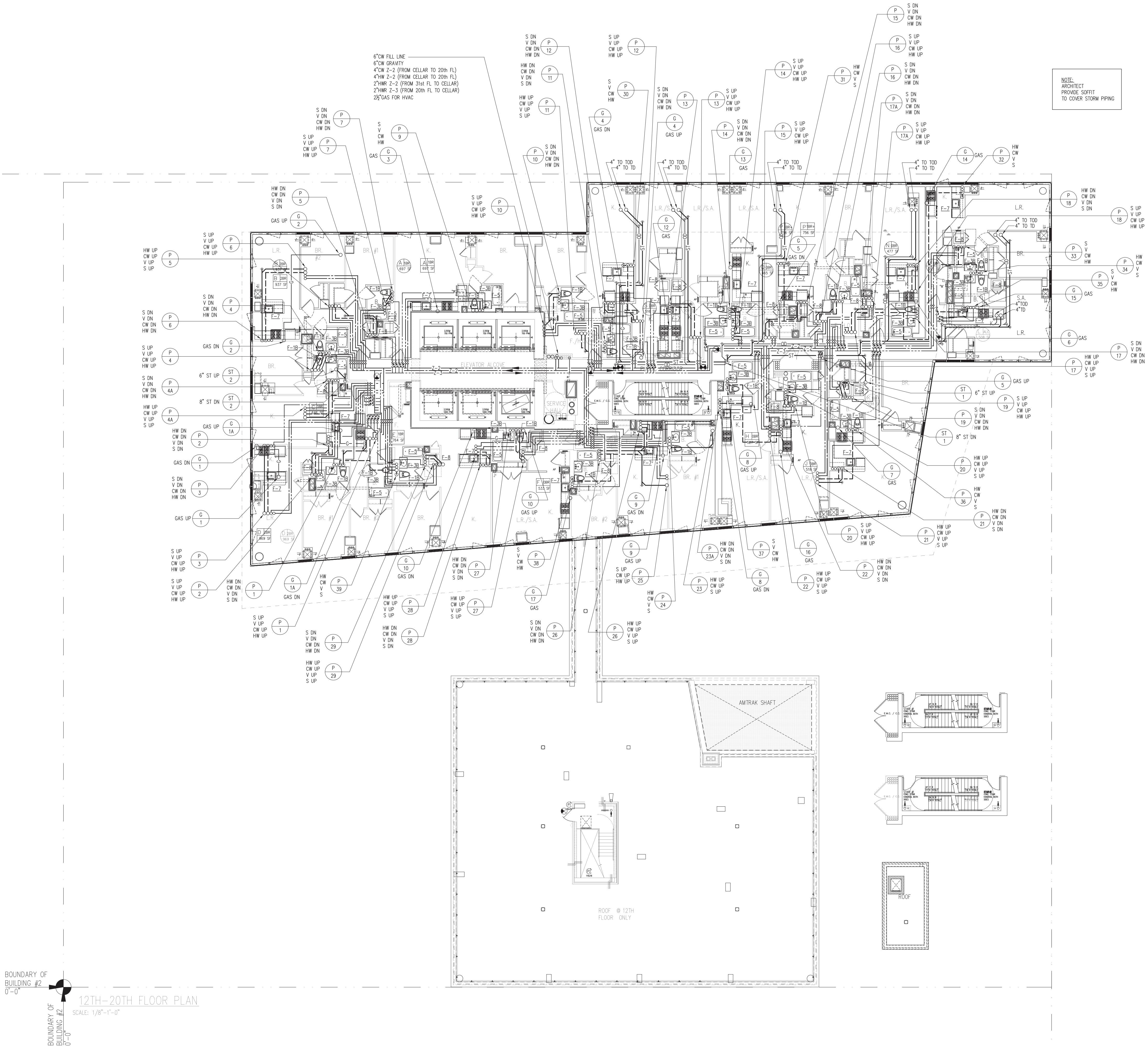


PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

DRAWING TITLE:
**PLUMBING
20th FLOOR PLAN**

SEAL & SIGNATURE:

DATE: JULY 15, 2011
PROJECT NO.:
DRAWN BY: NK
CHECKED BY: LB
DRAWING NO.:
P-120.00
CADD FILE NO.:
PSP



BOUNDARY OF
BUILDING #2
0'-0"

12TH-20TH FLOOR PLAN
SCALE: 1/8"=1'-0"

RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

423 WEST 47TH STREET
NEW YORK, NY 10036
T: 212.218.4233
F: 212.249.2893

ARCHITECT OF RECORD:
SLCE Architects
841 BROADWAY
NEW YORK, NY 10003
T: 212.579.8400
F: 212.579.8387

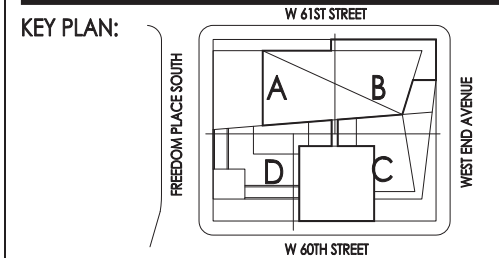
STRUCTURAL ENGINEER:
WSP CANTOR SEINUK
228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T: 212.487.8888
F: 212.487.5501

MECHANICAL ENGINEER:
WSP FLACK+KURTZ
512 SEVENTH AVENUE
NEW YORK, NY 10017
T: 212.532.9600



No.	Date	Revisions
4	07/02/2012	ISSUED TO DOB
3	12/08/2011	BAR CONSTRUCTION DOCUMENT
2	10/19/2011	SBS CONSTRUCTION DOCUMENT
1	07/16/2011	DESIGN DEVELOPMENT

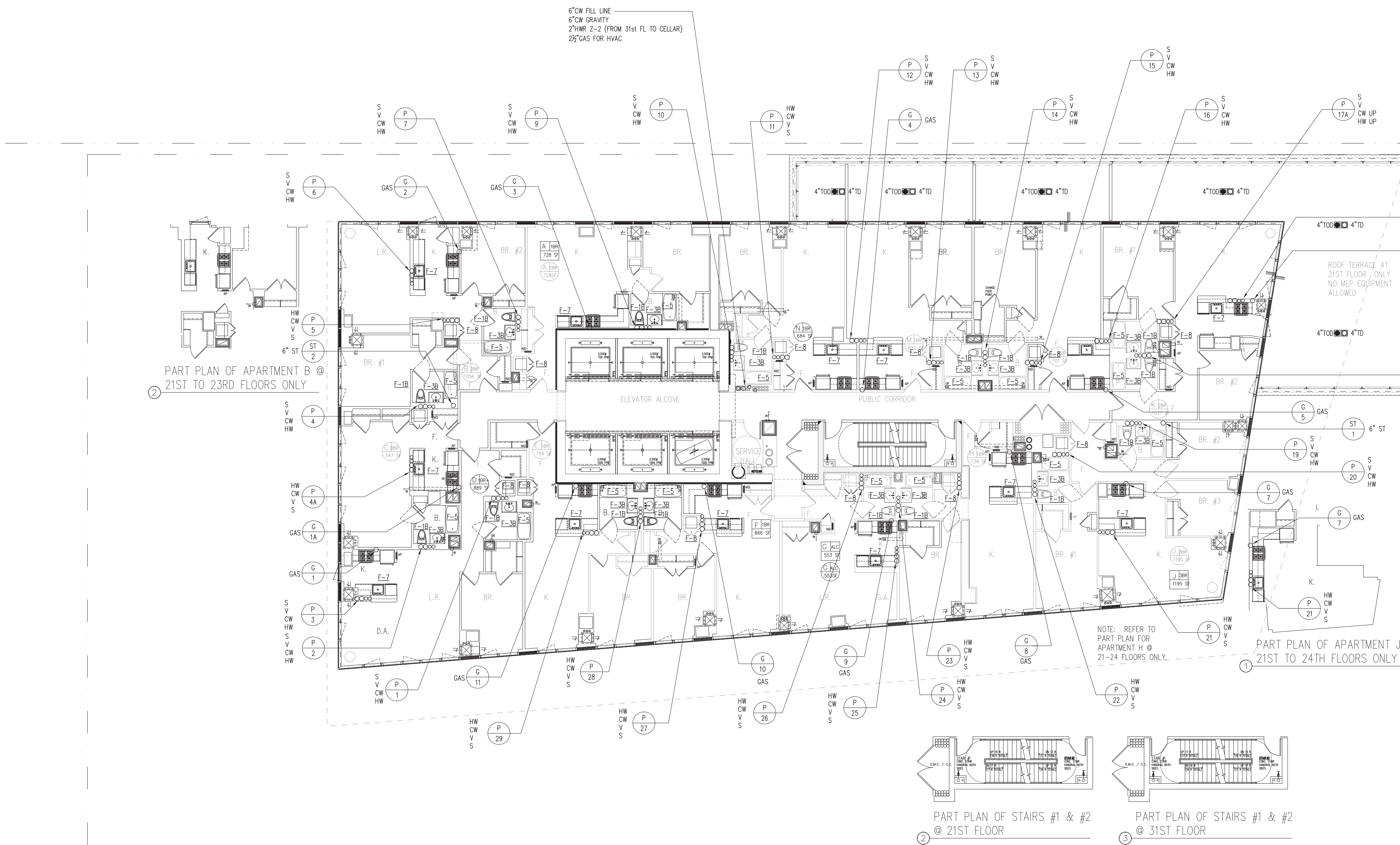
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PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

DRAWING TITLE:
**PLUMBING
21st-30th FLOOR PLANS**

SEAL & SIGNATURE: DATE: JULY 15, 2011
PROJECT NO.: PROJECT NO.:
DRAWN BY: NK
CHECKED BY: LB
DRAWING NO.: P-121.00
CADD FILE NO.:
R/S



BOUNDARY OF
BUILDING #2
0'-0"

21ST - 31ST FLOOR PLAN
SCALE: 1/8"=1'-0"

RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

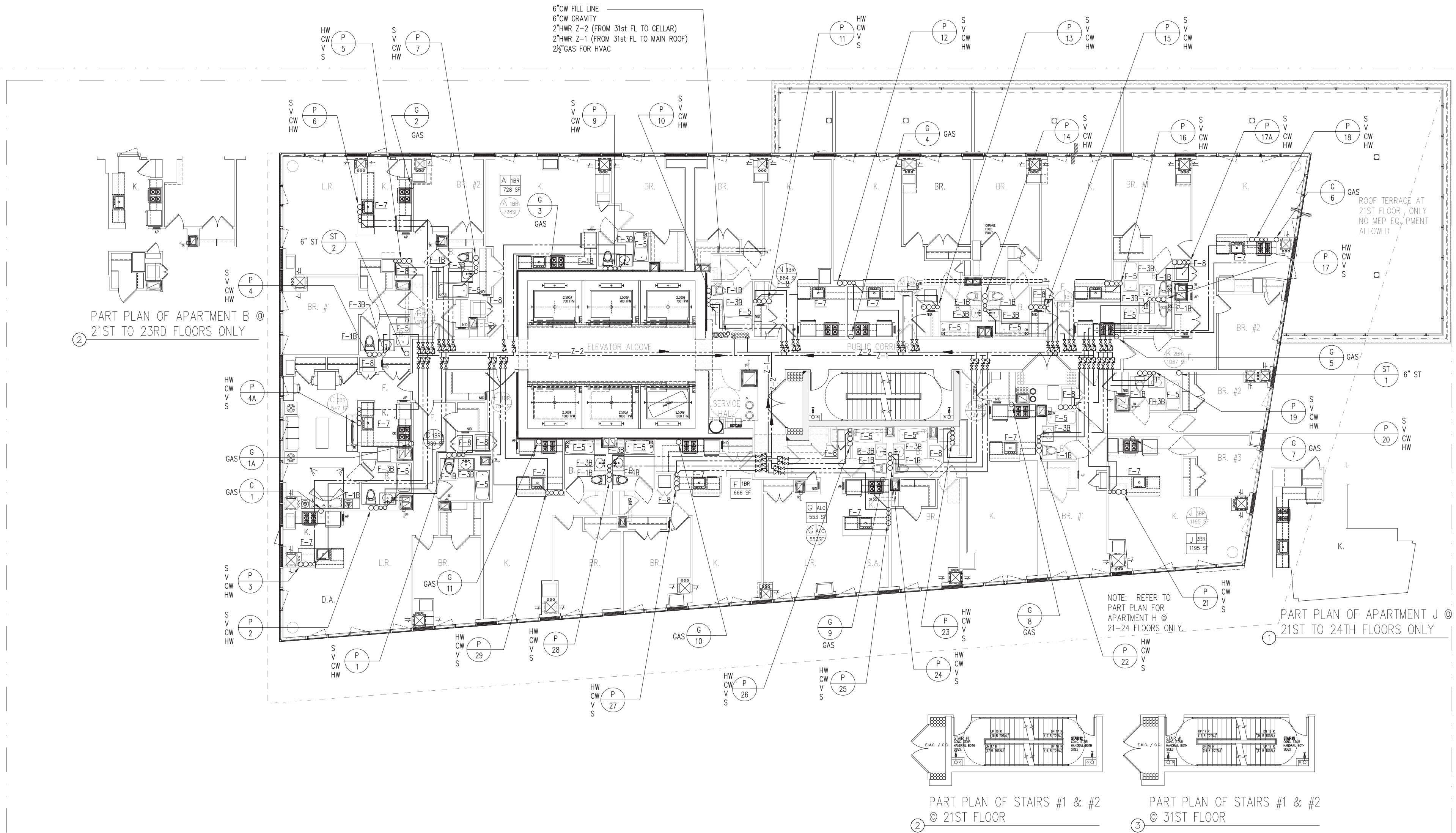
OWNER/DEVELOPER:
EXTELL DEVELOPMENT

423 WEST 47TH STREET
NEW YORK, NY 10036
T: 212.218.4233
F: 212.249.2893

ARCHITECT OF RECORD:
SLCE Architects
841 BROADWAY
NEW YORK, NY 10003
T: 212.579.8400
F: 212.579.8387

STRUCTURAL ENGINEER:
WSP CANTOR SEINUK
228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T: 212.687.8888
F: 212.687.5501

MECHANICAL ENGINEER:
WSP FLACK+KURTZ
512 SEVENTH AVENUE
NEW YORK, NY 10017
T: 212.532.9600



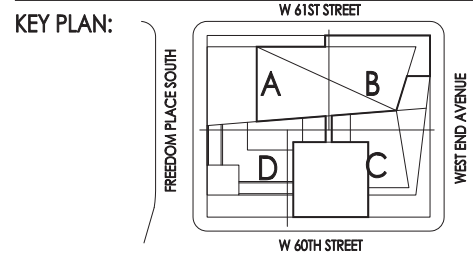
BOUNDARY OF
BUILDING #2
0'-0"

21ST - 31ST FLOOR PLAN
SCALE: 1/8"=1'-0"




No.	Date	Revisions
4	07/02/2012	ISSUED TO DOB
3	12/08/2011	ISS. CONSTRUCTION DOCUMENT
2	10/19/2011	ISS. CONSTRUCTION DOCUMENT
1	07/16/2011	DESIGN DEVELOPMENT

Scale: 0 SC-05 SC1 SC1.5 SCX1.5 SCX2.5



PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

DRAWING TITLE:
**PLUMBING
31st FLOOR PLAN**

SEAL & SIGNATURE:


DATE: JULY 15, 2011
PROJECT NO.:
DRAWN BY: NK
CHECKED BY: LB
DRAWING NO.: **P-131.00**
CADD FILE NO.:
R/S

RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

425 WEST 47TH STREET
NEW YORK, NY 10036
T: 212.678.4233
F: 212.678.2893

ARCHITECT OF RECORD:
SLCE Architects

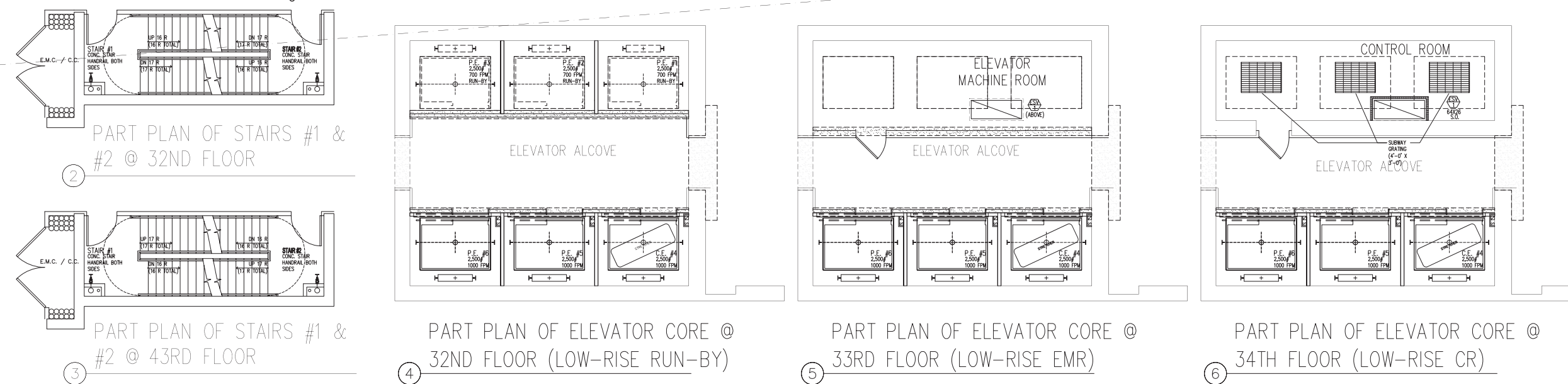
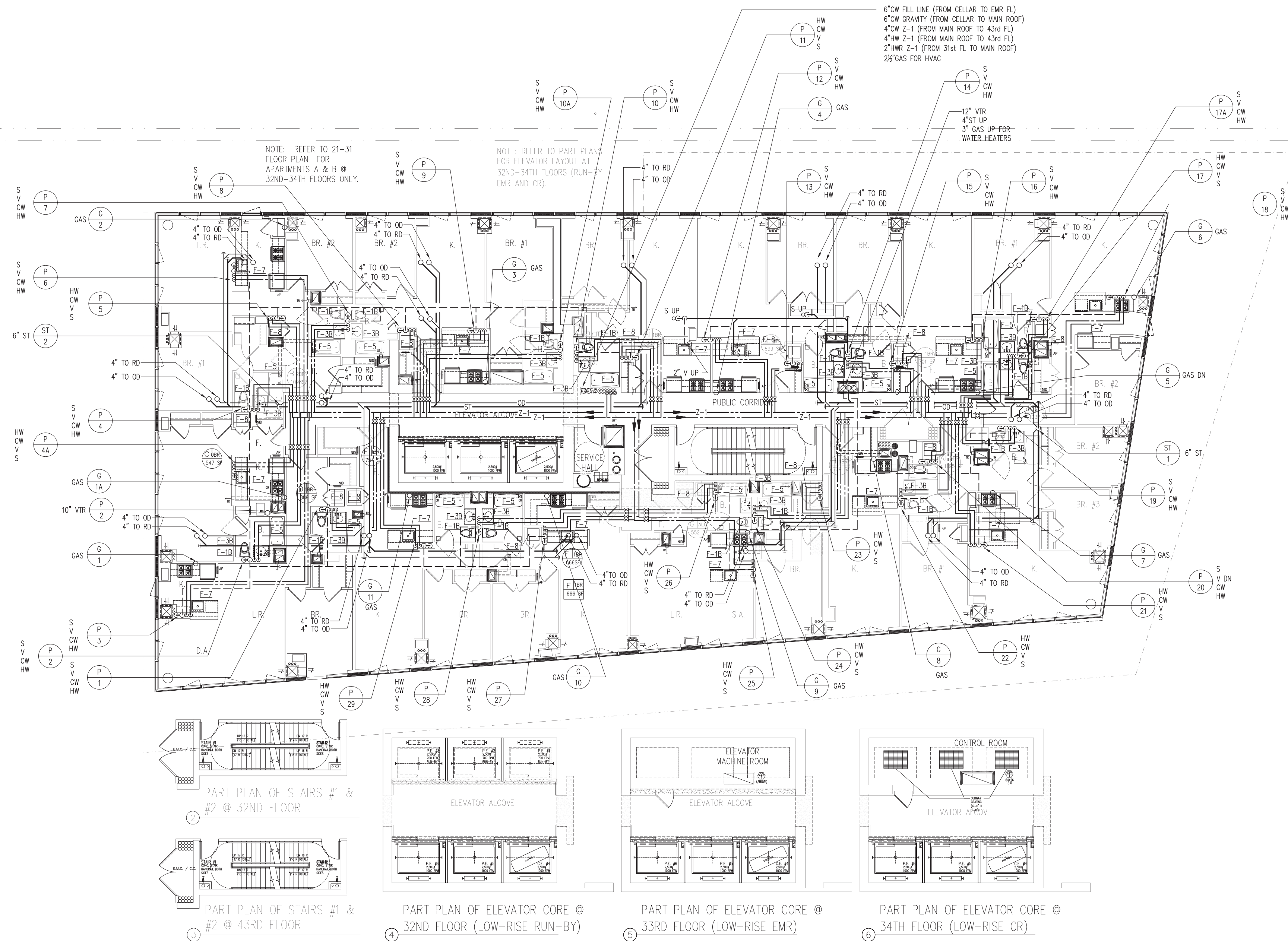
841 BROADWAY
NEW YORK, NY 10003
T: 212.579.8400
F: 212.579.8387

STRUCTURAL ENGINEER:
WSP CANTOR SEINUK

228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T: 212.687.8888
F: 212.687.5501

MECHANICAL ENGINEER:
WSP FLACK+KURTZ

512 SEVENTH AVENUE
NEW YORK, NY 10017
T: 212.532.9600



BOUNDARY OF
BUILDING #2
0'-0"

32ND - 43RD FLOOR PLAN

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

BOUNDARY OF
BUILDING #2
0'-0"

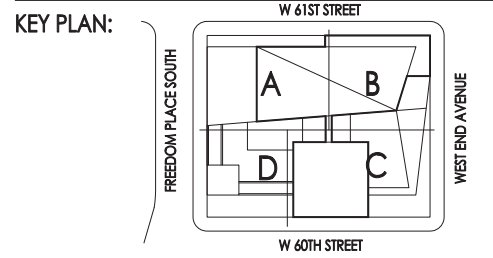


4	07/02/2012	ISSUED TO DOB
3	12/08/2011	SIX CONSTRUCTION DOCUMENT
2	10/19/2011	SIX CONSTRUCTION DOCUMENT
1	07/15/2011	DESIGN DEVELOPMENT

No: Date: Revision:


NORTH ARROW

Scale: 0 SC-05 SC1 SCX1.5 SCX2.5



PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

DRAWING TITLE:
**PLUMBING
43rd FLOOR PLAN**

SEAL & SIGNATURE:  DATE: JULY 15, 2011

PROJECT NO: DRAWN BY: NK CHECKED BY: LB P-143.00

DRAWING NO: CADD FILE NO: FILE



NOTE:
ALL HOT WATER RETURN BALANCING VALVES
(CIRCUIT CETRA) SHALL BE 1/2" SIZE.

RIVERSIDE CENTER BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

425 WEST 47TH STREET
NEW YORK, NY 10036
T. 212.279.4223
F. 212.279.2893

ARCHITECT OF RECORD:
SLCE Architects

841 BROADWAY
NEW YORK, NY 10003
T. 212.279.8400
F. 212.279.8307

STRUCTURAL ENGINEER:

WSP CANTOR SEINUK

228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T. 212.487.8888
F. 212.487.5501

MECHANICAL ENGINEER:

WSP FLACK+KURTZ

512 SEVENTH AVENUE
NEW YORK, NY 10017
T. 212.532.9400



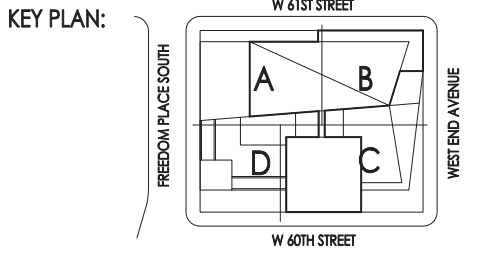
4	07/02/2012	ISSUED TO DOB
3	12/08/2011	SAS CONSTRUCTION DOCUMENT
2	10/19/2011	SAS CONSTRUCTION DOCUMENT
1	07/16/2011	DESIGN DEVELOPMENT

No. Date Revisions

NORTH ARROW


Scale: 0 1/2" = 1'-0"

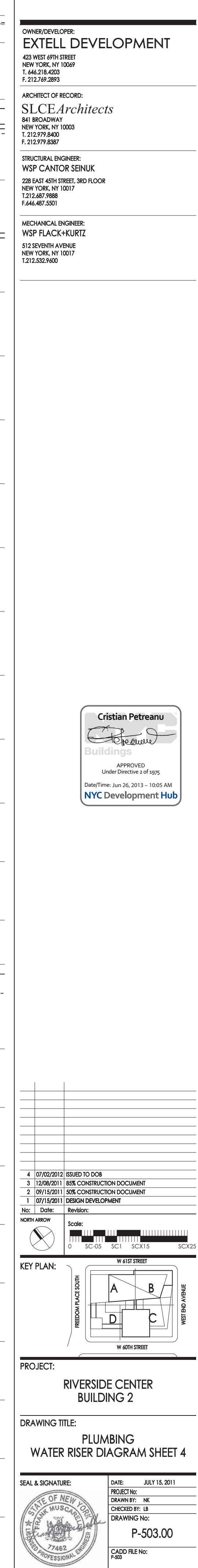
SC-05 SC-1 SC-1.5 SC-2.5

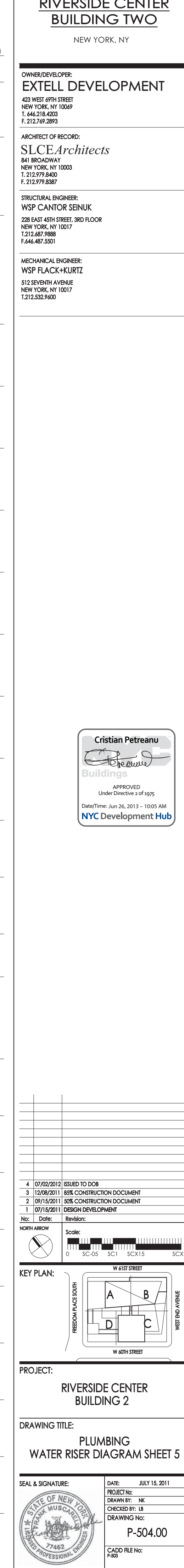


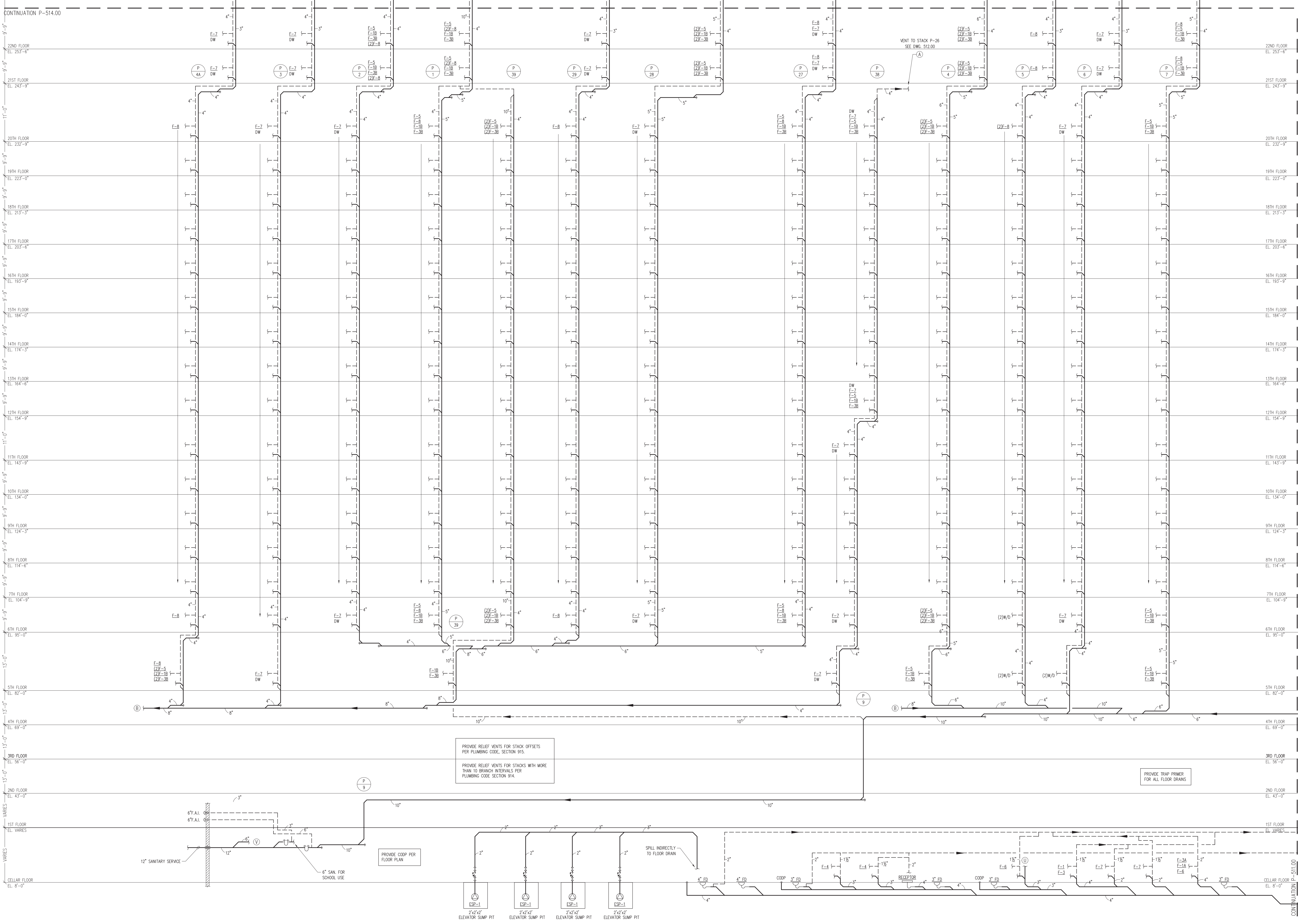
PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

DRAWING TITLE:
**PLUMBING
WATER RISER DIAGRAM SHEET 3**

SEAL & SIGNATURE:  DATE: JULY 15, 2011
PROJECT: NR
DRAWN BY: NR
CHECKED BY: LB
DRAWING NO.: **P-502.00**
CADD FILE NO.: NR







RIVERSIDE CENTER
BUILDING TWO
NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT
425 WEST 47TH STREET
NEW YORK, NY 10047
T. 212.678.4233
F. 212.749.2893

ARCHITECT OF RECORD:
SLCE Architects
841 BROADWAY
NEW YORK, NY 10003
T. 212.579.8400
F. 212.579.8387

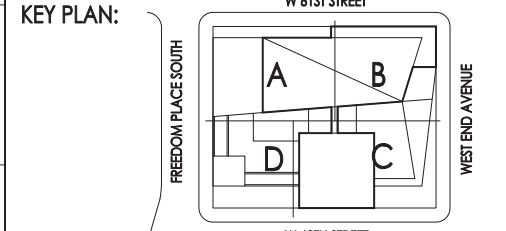
STRUCTURAL ENGINEER:
WSP CANTOR SEINUK
228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T. 212.487.8888
F. 212.487.5501

MECHANICAL ENGINEER:
WSP FLACK+KURTZ
512 SEVEN AVENUE
NEW YORK, NY 10017
T. 212.532.9600



No.	Date	Revisions
4	07/02/2012	ISSUED TO DOB
3	12/08/2011	BAS. CONSTRUCTION DOCUMENT
2	10/19/2011	SBS. CONSTRUCTION DOCUMENT
1	07/16/2011	DESIGN DEVELOPMENT

Scale: 0 SC-05 SC1 SC15 SC25

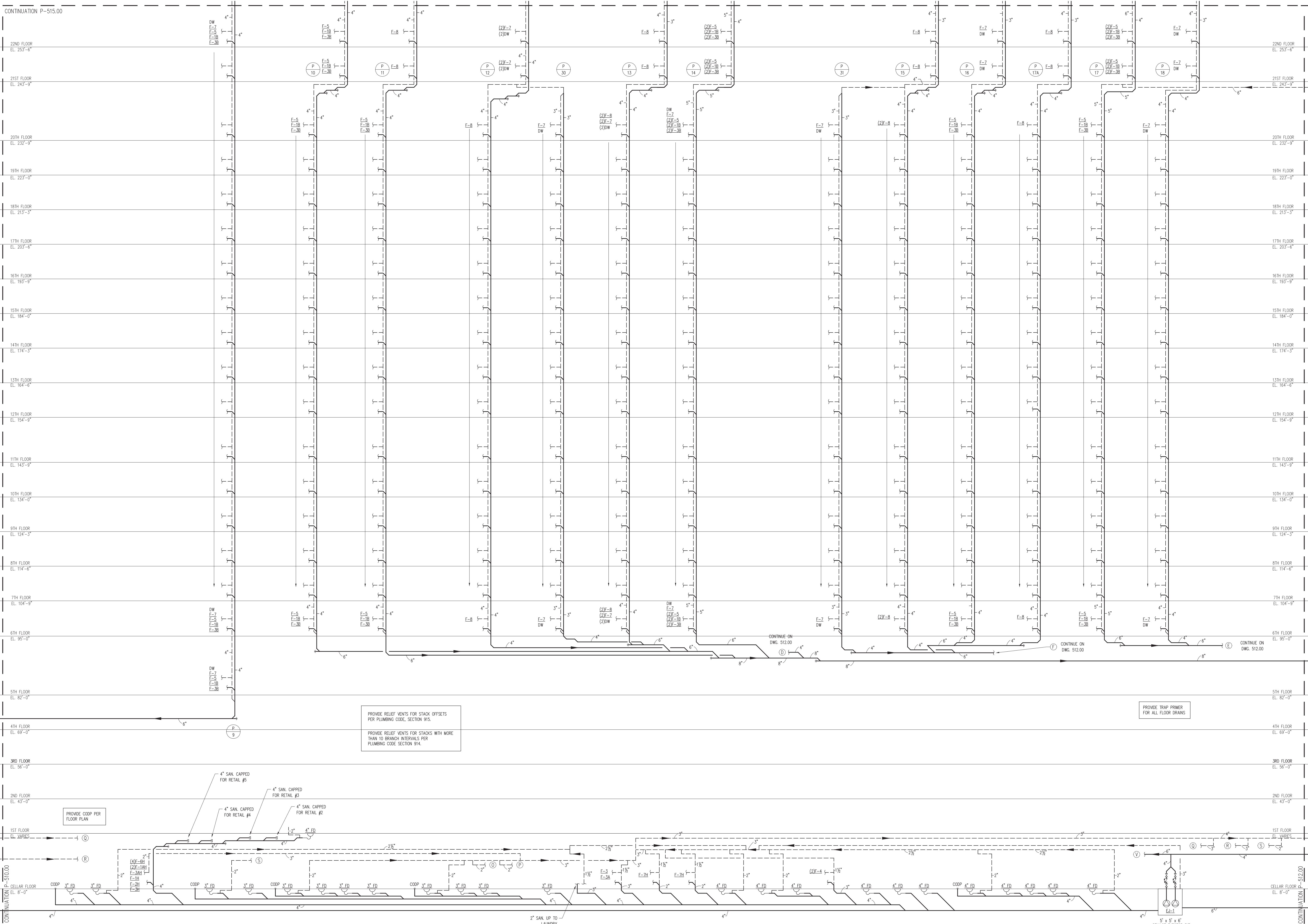


PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

DRAWING TITLE:
**PLUMBING
SANITARY RISER DIAGRAM SHEET 1**

SEAL & SIGNATURE:

DATE: JULY 15, 2011
PROJECT NO.:
DRAWN BY: NK
CHECKED BY: LB
DRAWING NO.:
P-510.00
CADD FILE NO.:
R/S



RIVERSIDE CENTER BUILDING TWO
NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT
425 WEST 47TH STREET
NEW YORK, NY 10036
T. 212.758.4233
F. 212.759.2893

ARCHITECT OF RECORD:
SLCE Architects
841 BROADWAY
NEW YORK, NY 10003
T. 212.579.8400
F. 212.579.8387

STRUCTURAL ENGINEER:
WSP CANTOR SEINUK
228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T. 212.687.8888
F. 212.687.5501

MECHANICAL ENGINEER:
WSP FLACK+KURTZ
515 SEVENTH AVENUE
NEW YORK, NY 10017
T. 212.532.9600

Cristian Petrescu
Buildings
APPROVED
Under Directive 2 of 1995
Date/Time: Jun 26, 2013 - 10:05 AM
NYC Development Hub

4 07/02/2012 ISSUED TO DOB
3 12/08/2011 BIX CONSTRUCTION DOCUMENT
2 10/19/2011 BIX CONSTRUCTION DOCUMENT
1 07/16/2011 DESIGN DEVELOPMENT

Scale:
0 SC-05 SC-1 SC-1.5 SC-1.5 SC-2.5

KEY PLAN:
W 42ND STREET
W 43RD STREET
W 44TH STREET
W 45TH STREET
W 46TH STREET
W 47TH STREET
W 48TH STREET
W 49TH STREET
W 50TH STREET
W 51ST STREET
W 52ND STREET
W 53RD STREET
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W 93RD STREET
W 94TH STREET
W 95TH STREET
W 96TH STREET
W 97TH STREET
W 98TH STREET
W 99TH STREET
W 100TH STREET

PROJECT:
RIVERSIDE CENTER BUILDING 2

DRAWING TITLE:
**PLUMBING
SANITARY RISER DIAGRAM SHEET 2**

SEAL & SIGNATURE:
DATE: JULY 15, 2011
DRAWN BY: NK
CHECKED BY: LB
DRAWING NO.: P-511.00
CADD FILE NO.: 441

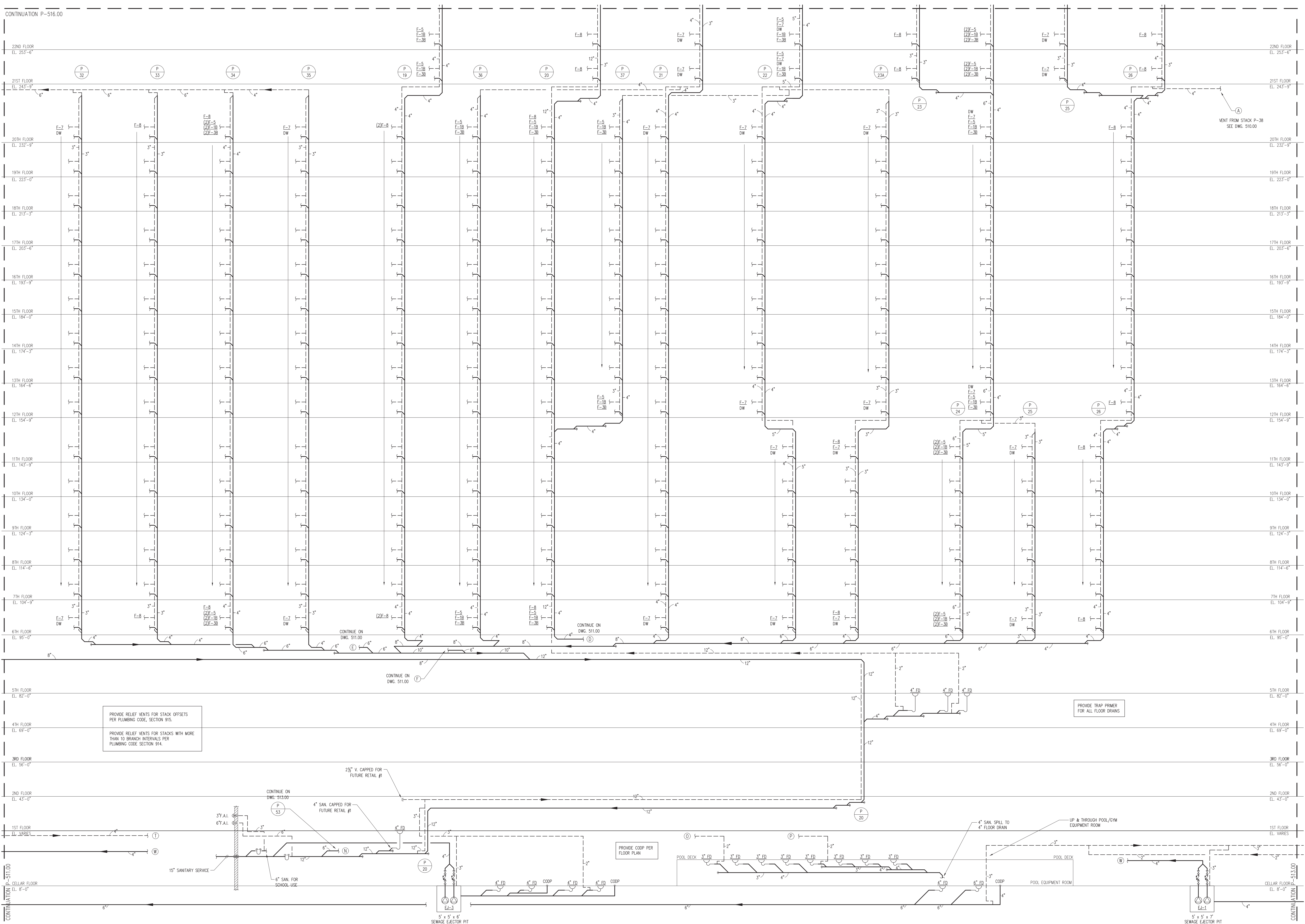
NEW YORK, N

423 WEST 69TH STREET
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T. 646.218.4203
F. 212.769.2893

841 BROADWAY
NEW YORK, NY 10003
T. 212.979.8400
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MECHANICAL ENGINEER:
WSP FLACK+KURTZ
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NEW YORK, NY 10017
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4	07/02/2012	ISSUED TO DOB
3	12/08/2011	85% CONSTRUCTION DOCUMENT
2	09/15/2011	50% CONSTRUCTION DOCUMENT
1	07/15/2011	DESIGN DEVELOPMENT
No:	Date:	Revision:

NORTH ARROW



Scale:




KEY PLAN:

PROJECT:
RIVERSIDE CENTER
BUILDING 2

DRAWING TITLE:

PLUMBING
SANITARY RISER DIAGRAM SHEET 3

SEAL & SIGNATURE:	DATE: JULY 15, 2011
	PROJECT No:

	PROJECT NO.:
	DRAWN BY: NK
	CHECKED BY: LB
	DRAWING No:



P-512.00

CADD FILE No:

RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

425 WEST 47TH STREET
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STRUCTURAL ENGINEER:
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F. 212.687.5501

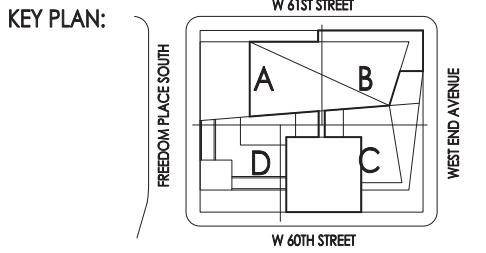
MECHANICAL ENGINEER:
WSP FLACK+KURTZ
512 SEVENTH AVENUE
NEW YORK, NY 10017
T. 212.532.9600



No.	Date	Revisions
1	07/02/2011	DESIGN DEVELOPMENT
2	09/19/2011	S&B CONSTRUCTION DOCUMENT
3	12/08/2011	S&B CONSTRUCTION DOCUMENT
4	07/02/2012	ISSUED TO DOB

NORTH ARROW

Scale: 0 SC-05 SC-11 SC-X15 SC-X25



PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

DRAWING TITLE:
**PLUMBING
SANITARY RISER DIAGRAM SHEET 4**

SEAL & SIGNATURE:

DATE: JULY 15, 2011
PROJECT NO.:
DRAWN BY: NK
CHECKED BY: LB
DRAWING NO.:
P-513.00
CADD FILE NO.:
463



NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

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STRUCTURAL ENGINEER
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4	07/02/2012	ISSUED TO DOB
3	12/08/2011	85% CONSTRUCTION DOCUMENT
2	09/15/2011	50% CONSTRUCTION DOCUMENT
1	07/11/2011	DESIGN DEVELOPMENT

No: _____ Date: _____ Revisions: _____

NORTH ARROW

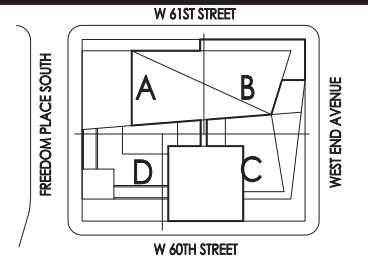


Scale:



0 SC-05 SC1 SCX15 SCX25

KEY PLAN



PROJECT:

RIVERSIDE CENTER
BUILDING 2

DRAWING TITLE:

PLUMBING
SANITARY RISER DIAGRAM SHEET 5

SEAL & SIGNATURE:

DATE:	JULY 15, 2011
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PROJECT No: _____
DRAWN BY: NK


CHECKED BY: LB
DRAWING No:

P-514.00

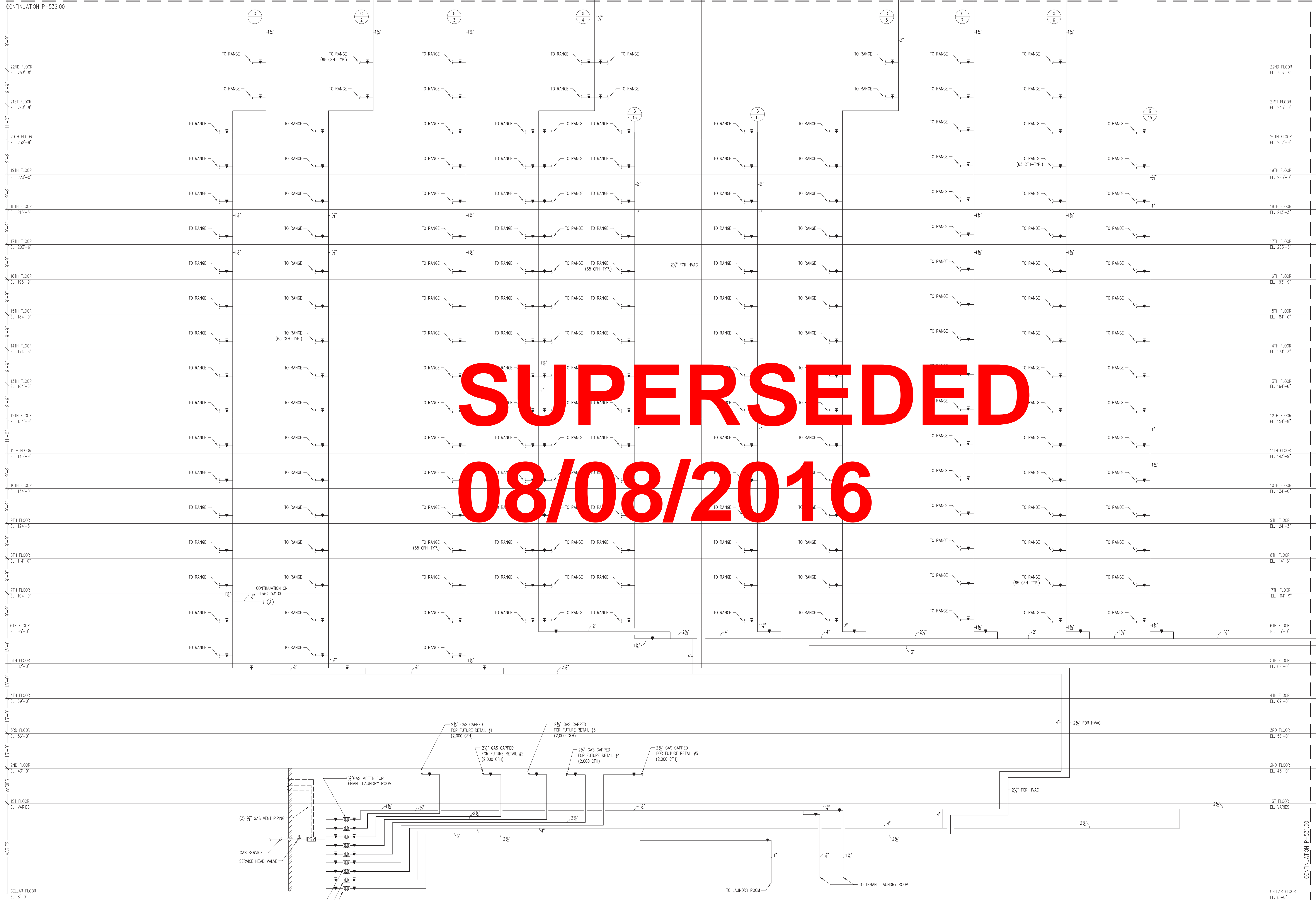
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CADO FILE No:
P-514

PROVIDE COOP PER FLOOR PLAN	
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SEAL & SIGNATURE:	DATE: JULY 15, 2011
	PROJECT No:
	DRAWN BY: NK
	CHECKED BY: LB
	DRAWING No: P-520.00
	CADD FILE No: P-520

CONTINUATION P-532.00



RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
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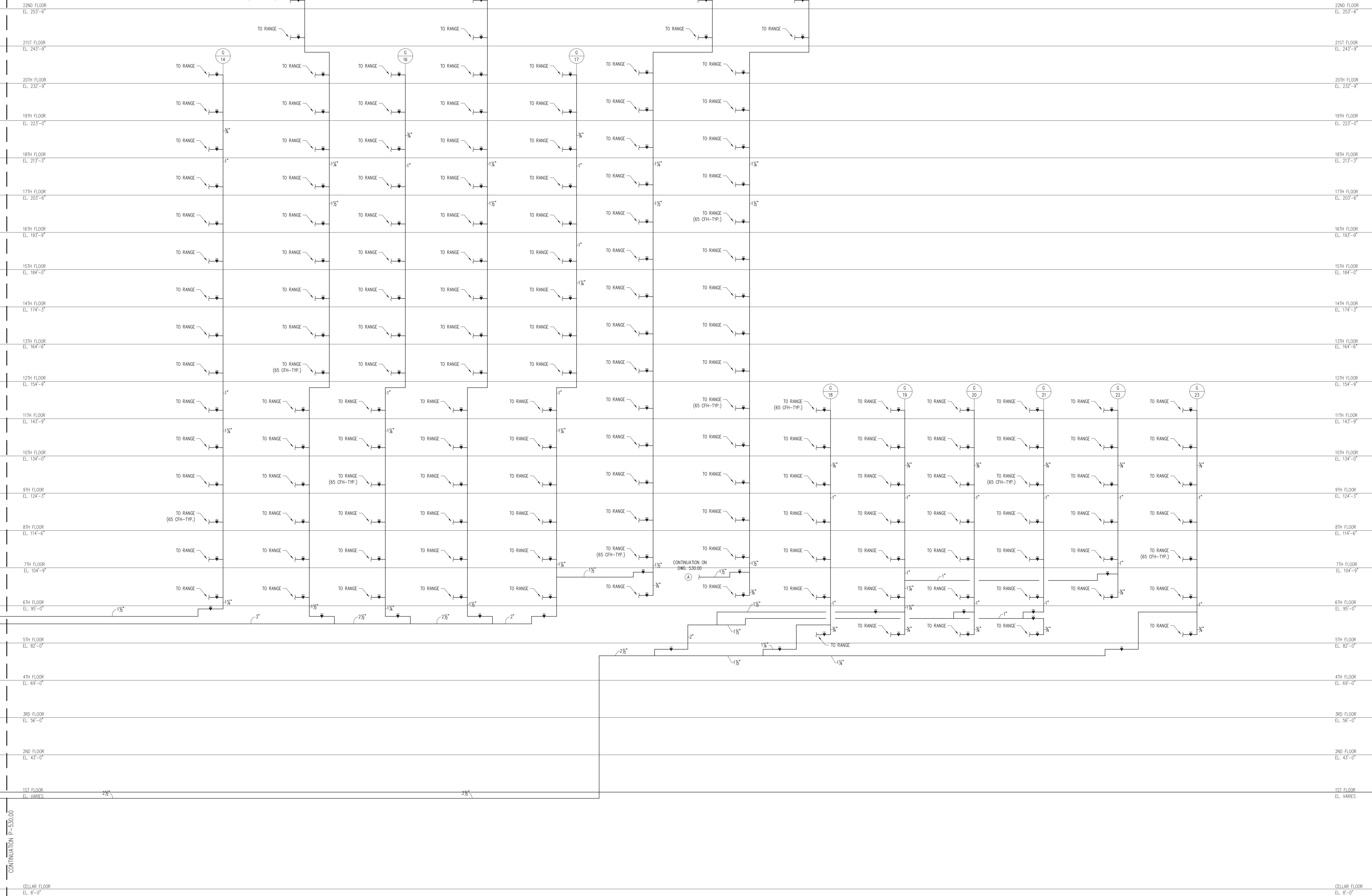
4	07/02/2012	ISSUED TO DOB
3	12/08/2011	84% CONSTRUCTION DOCUMENT
2	09/15/2011	DESIGN DEVELOPMENT DOCUMENT
1	07/16/2011	DESIGN DEVELOPMENT

No. Date Revisions

NORTH ARROW

Scale: 0 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' 11' 12' 13' 14' 15' 16' 17' 18' 19' 20' 21' 22' 23' 24' 25' 26' 27' 28' 29' 30' 31' 32' 33' 34' 35' 36' 37' 38' 39' 40' 41' 42' 43' 44' 45' 46' 47' 48' 49' 50' 51' 52' 53' 54' 55' 56' 57' 58' 59' 60' 61' 62' 63' 64' 65' 66' 67' 68' 69' 70' 71' 72' 73' 74' 75' 76' 77' 78' 79' 80' 81' 82' 83' 84' 85' 86' 87' 88' 89' 90' 91' 92' 93' 94' 95' 96' 97' 98' 99' 100' 101' 102' 103' 104' 105' 106' 107' 108' 109' 110' 111' 112' 113' 114' 115' 116' 117' 118' 119' 120' 121' 122' 123' 124' 125' 126' 127' 128' 129' 130' 131' 132' 133' 134' 135' 136' 137' 138' 139' 140' 141' 142' 143' 144' 145' 146' 147' 148' 149' 150' 151' 152' 153' 154' 155' 156' 157' 158' 159' 160' 161' 162' 163' 164' 165' 166' 167' 168' 169' 170' 171' 172' 173' 174' 175' 176' 177' 178' 179' 180' 181' 182' 183' 184' 185' 186' 187' 188' 189' 190' 191' 192' 193' 194' 195' 196' 197' 198' 199' 200' 201' 202' 203' 204' 205' 206' 207' 208' 209' 210' 211' 212' 213' 214' 215' 216' 217' 218' 219' 220' 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1681' 1682' 1683' 1684' 1685' 1686' 1687' 1688' 1689' 1690' 1691' 1692' 1693' 1694' 1695' 1696' 1697' 1698' 1699' 1700' 1701' 1702' 1703' 1704' 1705' 1706' 1707' 1708' 1709' 1710' 1711' 1712' 1713' 1714' 1715' 1716' 1717' 1718' 1719' 1720' 1721' 1722' 1723' 1724' 1725' 1726' 1727' 1728' 1729' 1730' 1731' 1732' 1733' 1734' 1735' 1736' 1737' 1738' 1739' 1740' 1741' 1742' 1743' 1744' 1745' 1746' 1747' 1748' 1749' 1750' 1751' 1752' 1753' 1754' 1755' 1756' 1757' 1758' 1759' 1760' 1761' 1762' 1763' 1764' 1765' 1766' 1767' 1768' 1769' 1770' 1771' 1772' 1773' 1774' 1775' 1776' 1777' 1778' 1779' 1780' 1781' 1782' 1783' 1784' 1785' 1786' 1787' 1788' 1789' 1790' 1791' 1792' 1793' 1794' 1795' 1796' 1797' 1798' 1799' 1800' 1801' 1802' 1803' 1804' 1805' 1806' 1807' 1808' 1809' 1810' 1811' 1812' 1813' 1814' 1815' 1816' 1817' 1818' 1819' 1820' 1821' 1822' 1823' 1824' 1825' 1826' 1827' 1828' 1829' 1830' 1831' 1832' 1833' 1834' 1835' 1836' 1837' 1838' 1839' 1840' 1841' 1842' 1843' 1844' 1845' 1846' 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CONTINUATION P-533.00



CONTINUATION P-530.00

RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

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ARCHITECT OF RECORD:
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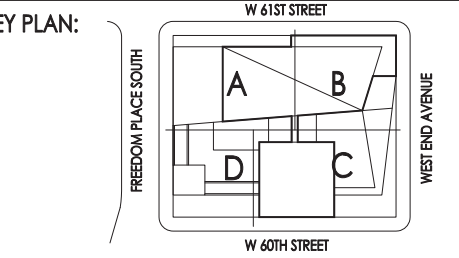
STRUCTURAL ENGINEER:
WSP CANTOR SEINUK
228 EAST 45TH STREET, 3RD FLOOR
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T. 212.487.8888
F. 212.487.5501

MECHANICAL ENGINEER:
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NEW YORK, NY 10017
T. 212.532.9600



4	07/02/2012	ISSUED TO DOB
3	12/08/2011	BAS CONSTRUCTION DOCUMENT
2	09/19/2011	BAS CONSTRUCTION DOCUMENT
1	07/16/2011	DESIGN DEVELOPMENT

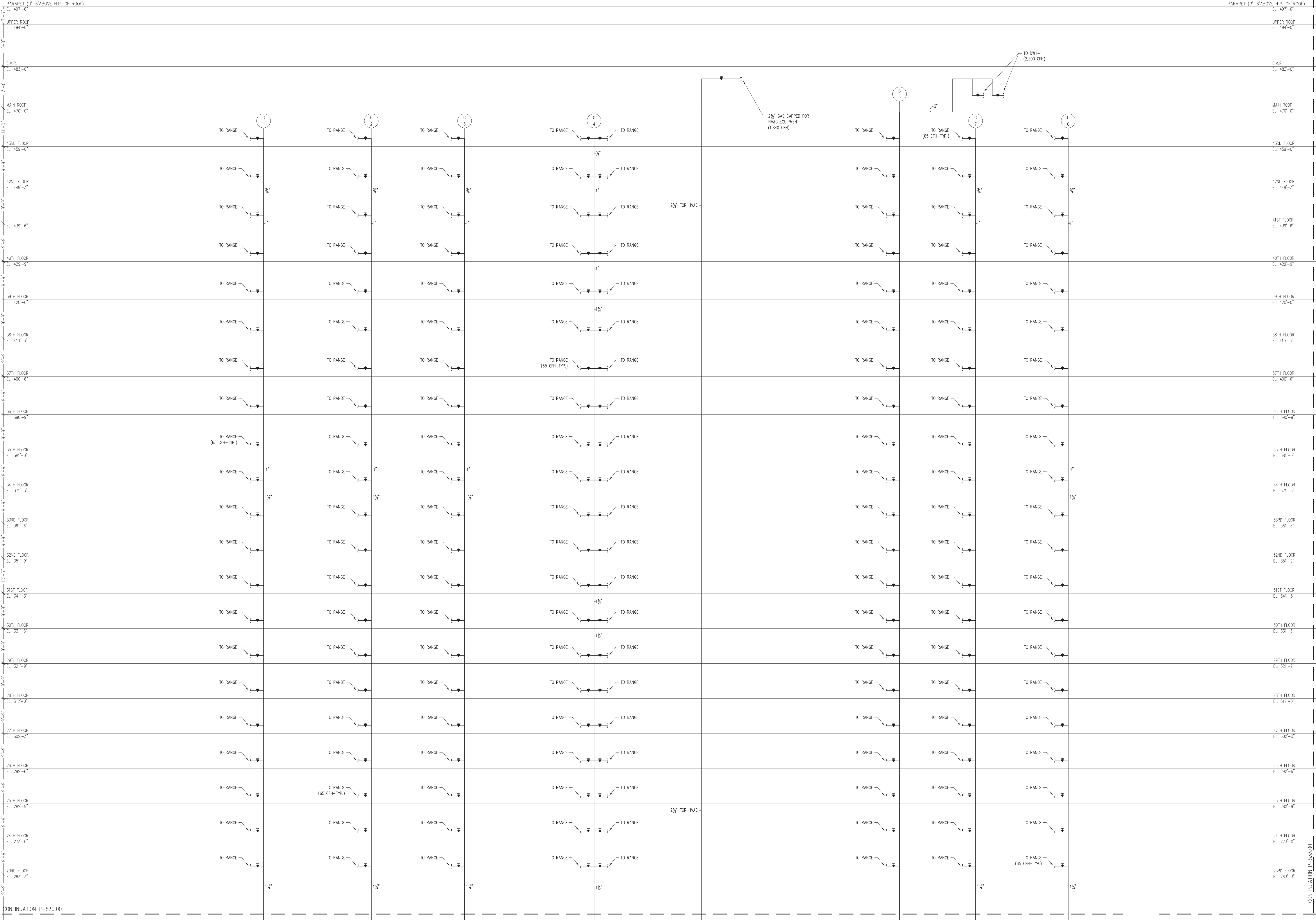
No.	Date	Revisions
0		SC-05 SC-11 SC-15 SC-25



PROJECT:
RIVERSIDE CENTER
BUILDING 2

DRAWING TITLE:
PLUMBING
GAS RISER DIAGRAM SHEET 2

SEAL & SIGNATURE:	DATE: JULY 15, 2011
PROJECT NO:	DRAWN BY: NE
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CADD FILE NO: 440	



RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

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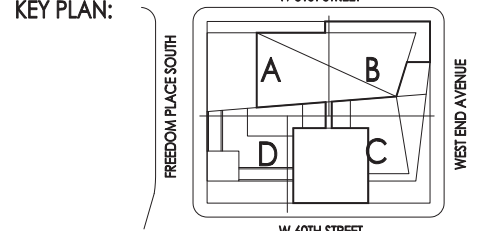
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4	07/02/2012	ISSUED TO DOB
3	12/08/2011	BAS. CONSTRUCTION DOCUMENT
2	10/19/2011	SBS. CONSTRUCTION DOCUMENT
1	07/16/2011	DESIGN DEVELOPMENT

No.	Date	Revisions
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3	12/08/2011	BAS. CONSTRUCTION DOCUMENT
4	07/02/2012	ISSUED TO DOB



PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

DRAWING TITLE:
**PLUMBING
GAS RISER DIAGRAM SHEET 3**

SEAL & SIGNATURE:

DATE: JULY 15, 2011
PROJECT NO.:
DRAWN BY: NK
CHECKED BY: LB
DRAWING NO.:
P-532.00
CADD FILE NO.:
RIS

FIRE PROTECTION DRAWING LIST									
DRAWING NUMBER	DRAWING TITLE	SCALE	DESIGN DEVELOPMENT	50% CONSTRUCTION DOCUMENT	85% CONSTRUCTION DOCUMENT	ISSUED TO DOB	PROGRESS SET	85% CD SET	PLING RESUBMISSION TO DOB
			07.15.11	09.15.11	12.08.11	07.02.12	08.22.12	09.28.12	11.20.12
1	FP--000.00	FIRE PROTECTION DRAWING LIST, SYMBOLS AND ABBREVIATIONS	NONE	●	●	●	●	●	●
2	FP--001.00	FIRE PROTECTION SCOPE OF WORK	NONE	●	●	●	●	●	●
3	FP--002.00	FIRE PROTECTION DOB NOTES	NONE	●	●	●	●	●	●
4	FP--100.00	FIRE PROTECTION CELLAR FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
5	FP--100M.00	FIRE PROTECTION CELLAR MEZZANINE FLOOR PLAN	1/8"=1'-0"					●	●
6	FP--101.00	FIRE PROTECTION FIRST FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
7	FP--101M.00	FIRE PROTECTION MEZZANINE FLOOR PLAN	1/8"=1'-0"					●	●
8	FP--102.00	FIRE PROTECTION SECOND FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
9	FP--103.00	FIRE PROTECTION THIRD FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
10	FP--104.00	FIRE PROTECTION FOURTH FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
11	FP--105.00	FIRE PROTECTION FIFTH FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
12	FP--106.00	FIRE PROTECTION 6TH-10TH FLOOR PLANS	1/8"=1'-0"	●	●	●	●	●	●
13	FP--111.00	FIRE PROTECTION 11TH FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
14	FP--112.00	FIRE PROTECTION 12TH-19TH FLOOR PLANS	1/8"=1'-0"	●	●	●	●	●	●
15	FP--120.00	FIRE PROTECTION 20TH FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
16	FP--121.00	FIRE PROTECTION 21ST-30ST FLOOR PLANS	1/8"=1'-0"	●	●	●	●	●	●
17	FP--131.00	FIRE PROTECTION 31ST FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
18	FP--132.00	FIRE PROTECTION 32ND-42ND FLOOR PLANS	1/8"=1'-0"	●	●	●	●	●	●
19	FP--143.00	FIRE PROTECTION 43RD FLOOR PLAN	1/8"=1'-0"	●	●	●	●	●	●
20	FP--144.00	FIRE PROTECTION MAIN ROOF PLAN	1/8"=1'-0"	●	●	●	●	●	●
21	FP--500.00	FIRE PROTECTION RISER DIAGRAM SHEET 1	NONE	●	●	●	●	●	●
22	FP--501.00	FIRE PROTECTION RISER DIAGRAM SHEET 2	NONE	●	●	●	●	●	●
23	FP--600.00	FIRE PROTECTION DETAILS AND SCHEDULES	NONE	●	●	●	●	●	●

FIRE PROTECTION

ABBREVIATIONS

A.B.D.	AUTOMATIC BALL DRIP
A.D.	AREA DRAIN
A.F.F.	ABOVE FINISHED FLOOR
B.O.P.	BOTTOM OF PIPE
C.W.M.	CUBIC METERS PER MINUTE
C.V.	CHECK VALVE
DIA.	DIAMETER
DR.	DRAIN
DN.	DOWN (PENETRATES FLOOR SLAB)
F.C.V.A	FLOOR CONTROL VALVE ASSEMBLY
F.H.C.	FIRE HOSE CABINET
F.H.R.	FIRE HOSE RACK
F.H.V.	FIRE HOSE VALVE
F.H.V.C.	FIRE HOSE VALVE CABINET
F.D.	FLOOR DRAIN
FL.	FLOOR
F.S.P.	FIRE STANDPIPE
G.C.	GENERAL CONTRACTOR
G.V.	GATE VALVE
GAL.	GALLONS
G.P.M.	GALLONS PER MINUTE
H.D.	HEAT DETECTOR
I.D.	INSIDE DIAMETER
K.S.M.A.	KILOS PER SQUARE METER (ABSOLUTE)
K.S.M.	KILOS PER SQUARE METER (GAUGE)
KW.	KILOWATTS
L.	LITERS
L.P.M.	LITERS PER MINUTE
MAX.	MAXIMUM
M.	METERS
M²	SQUARE METERS
M³	CUBED METERS
MIN.	MINIMUM
N.C.	NORMALLY CLOSED
N.I.C.	NOT IN THIS CONTRACT
N.O.	NORMALLY OPEN
N.T.S.	NOT TO SCALE
O.D.	OUTSIDE DIAMETER
OS&Y	OUTSIDE SCREW & YOKE GATE VALVE
P.R.V.	PRESSURE REDUCING VALVE
P.I.V.	POST INDICATED VALVE
S.D.	SMOKE DETECTOR
SPKR.	SPRINKLER
T.O.P.	TOP OF PIPE
T.S.	TAMPER SWITCH
U.O.N.	UNLESS OTHERWISE NOTED
UP.	UP (PENETRATES FLOOR SLAB)
W.C.O.	WALL CLEAN OUT
W.F.S.	WATER FLOW SWITCH
Z.	ZONE

LEGENDS

—F—	FIRE STANDPIPE PIPING
—F(7#)—	ZONE PIPING
—DF—	DRY FIRE STANDPIPE PIPING
—SP—	SPRINKLER PIPING
—DSP—	DRY SPRINKLER PIPING
—PA—	PRE-ACTION SPRINKLER PIPING
—DLSP—	DELUGE SPRINKLER PIPING
—ASP—	ANTI-FREEZE SPRINKLER PIPING
—FO—	FOAM PIPING
—A—	COMPRESSED AIR PIPING
—DR—	DRAIN PIPING

LEGENDS (CONTINUED)

	INSULATED AND HEAT TRACED PIPING
	SLOPED CHANGE IN PIPE ELEVATION
	ARROW INDICATES DIRECTION OF FLOW
	RELIEF VALVE
	ANGLE RELIEF VALVE
	UNION
	REDUCER
	ECCENTRIC REDUCER (E.R.)
	WATER PROOF SLEEVE
	SLEEVE
	FIRE HOSE STATION
	FIRE HOSE STATION IN CABINET
	SPRINKLER FLOOR CONTROL VALVE ASSEMBLY
	ALARM CHECK VALVE WITH ALL RELATED APPURTENANCES
	DRY PIPE VALVE WITH ALL RELATED APPURTENANCES
	PRE-ACTION VALVE WITH ALL RELATED APPURTENANCES
	DELUGE VALVE WITH ALL RELATED APPURTENANCES
	PORTABLE FIRE EXTINGUISHER AND TYPE (AS SPECIFIED) MOUNTED ON WALL
	PORTABLE FIRE EXTINGUISHER AND TYPE (AS SPECIFIED) LOCATED IN CABINET
	PITCH PIPE DOWN IN DIRECTION OF ARROW
	POINT OF NEW CONNECTION TO EXISTING WORK
	FLEXIBLE CONNECTION
	HOSE BIBB
	FIRE DEPT. HOSE VALVE WITH CAP AND CHAIN
	ROOF MANIFOLD (3 WAY)
	FIRE DEPARTMENT SIAMESE CONNECTION WALL MOUNTED
	FREE STANDING FIRE DEPARTMENT SIAMESE CONNECTION
	NEW FIRE HYDRANT
	EXISTING FIRE HYDRANT
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	ELBOW TURNED DOWN
	ELBOW TURNED UP / CONN. TO VERTICAL LINE
	VALVE IN VERTICAL
	VALVE (SEE SCHEDULE & SPECIFICATION FOR TYPE)
	CHECK VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	OS&Y (OUTSIDE SCREW & YOKE) VALVE
	CHECK VALVE WITH A.B.D.
	FLOAT VALVE
	BACKFLOW PREVENTER ASSEMBLY
	WATER FLOW SWITCH
	PRESSURE GAUGE AND COCK
	METER
	PUMP
	RISER DESIGNATION
	RISER SERVICE
	RISER NUMBER
	THERMAL DETECTOR
	SMOKE DETECTOR
	HEAT DETECTOR FOR PREACTION SYSTEM
	STROBE HORNE
	HORNE
	BELL
	ABORT SWITCH
	MANUAL RELEASE
	FM-200 CONTROL PANEL
	GRAPHIC ANNUNCIATION PANEL
	FM-200 PIPING AT CEILING
	FM-200 PIPING UNDER RAISED FLOOR
	PREACTION SYSTEM PIPING

THESE PROGRESS DRAWINGS ARE SUBJECT TO THE FOLLOWING:

ONGOING COORDINATION WITH OTHER CONSULTANTS, DOB REVIEW AND APPROVAL, DCP REVIEW AND APPROVAL, CON EDISON REVIEW AND APPROVAL, OER REVIEW AND APPROVAL, SCA (SCHOOL) COORDINATION, AMTRAK REVIEW AND APPROVAL, HPD REVIEW AND APPROVAL, CLIENT REVIEW AND APPROVAL OF ITEMS SUCH AS FACADE DESIGN.

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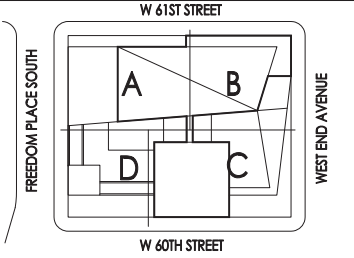
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7	11/20/2012	PLING RESUBMISSION TO DOB
6	09/28/2012	85% CD SET
5	08/22/2012	PROGRESS SET
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3	12/08/2011	85% CONSTRUCTION DOCUMENT
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1	07/16/2011	DESIGN DEVELOPMENT

No.	Date	Revisions
0	SC-05	SC1 SC15 SC125

KEY PLAN:



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BUILDING TWO

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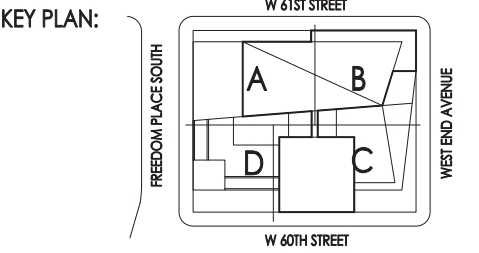
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7	11/20/2012	PLUMB RESUBMISSION TO DOB
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1	07/16/2011	DESIGN DEVELOPMENT

North Arrow

Scale:
0 0'-00 0'-05 0'-10 0'-15 0'-20 0'-25



PROJECT:
RIVERSIDE CENTER
BUILDING 2

DRAWING TITLE:
FIRE PROTECTION
SCOPE OF WORK

SEAL & SIGNATURE:	DATE: JULY 15, 2011
PROJECT NO:	
DRAWN BY:	
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DRAWING NO:	FP-001.00
CADD FILE NO:	
INCH	

THESE PLANS ARE APPROVED ONLY FOR THE 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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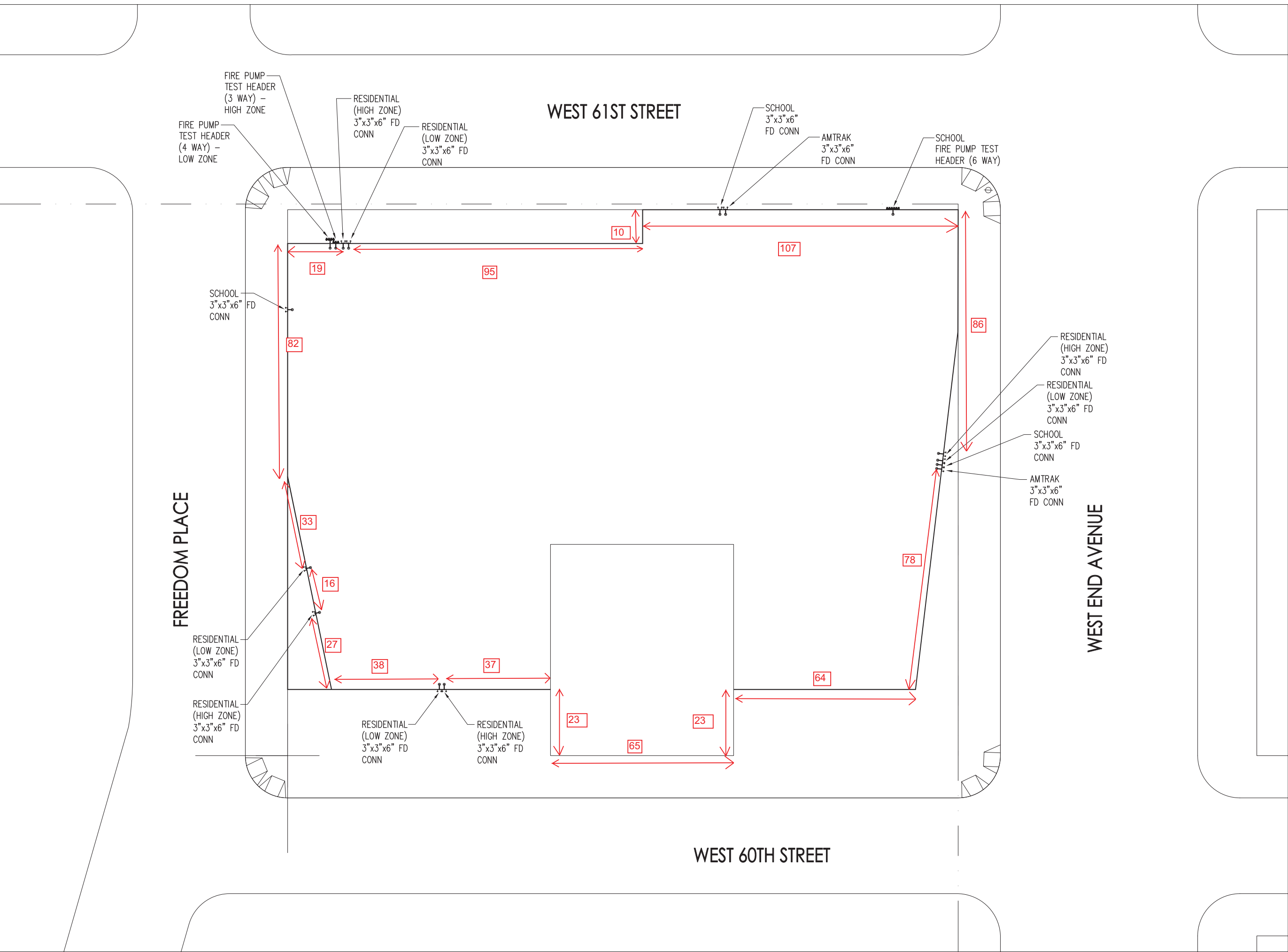
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STANDPIPE GENERAL NOTES:

1. THE COMPLETE STANDPIPE SYSTEM COMPLY WITH THE FULL REQUIREMENTS OF N.Y.C. BUILDING CODE SEC. 905, APPENDIX Q AND NFPA 14-2003.
2. STANDPIPE SYSTEM COMPONENTS AND HARDWARE SHALL BE IN ACCORDANCE WITH CHAPTER 4 OF NFPA 14-2003 AND APPENDIX Q OF NYC BUILDING CODE.
3. THE LOCATION OF FIRE DEPARTMENT HOSE CONNECTIONS SHALL BE APPROVED BY THE FIRE COMMISSIONER PER SEC 905.1 OF NYC BUILDING CODE.
4. STANDPIPE SYSTEMS IN BUILDINGS USE FOR HIGH-PILED COMBUSTIBLE STORAGE SHALL BE IN ACCORDANCE WITH THE NYC FIRE CODE.
5. INSTALLATION OF STANDPIPE SYSTEMS SHALL COMPLY WITH THE SPECIAL INSPECTION REQUIREMENTS OF CHAPTER 17 OF NYC BUILDING CODE.
6. CONSTRUCTION DOCUMENTS FOR STANDPIPE SYSTEMS SHALL CONTAIN PLANS THAT INCLUDE THE INFORMATION AND DATA LISTED IN SEC. 905.1.1 OF NYC BUILDING CODE.
7. ANY SPACE OR ROOM THAT CONTAINS EQUIPMENT OF SUCH NATURE THAT THE USE OF WATER WOULD BE INEFFECTIVE IN FIGHTING A FIRE THEREIN OR WOULD BE OTHERWISE HAZARDOUS, SHALL HAVE A CONSPICUOUS SIGN ON EACH DOOR OPENING ON SUCH SPACE OR ROOM STATING THE NATURE OF THE USE AND THE WARNING: "IN CASE OF FIRE, USE NO WATER."
8. STANDPIPE SYSTEMS SHALL BE INSTALLED WHERE REQUIRED BY SECTION 905.3.1 THROUGH 905.3.6 AND IN THE LOCATIONS INDICATED IN SECTIONS 905.4, 905.5 AND 905.6.
9. STANDPIPE SYSTEMS ARE PERMITTED TO BE COMBINED WITH AUTOMATIC SPRINKLER SYSTEMS. SEC. 905.3 OF NYC BUILDING CODE.
10. THE LOCATION OF CLASS I STANDPIPE HOSE CONNECTION SHALL COMPLY WITH SEC. 905.4 OF NYC BUILDING CODE.
11. WHERE THE MOST REMOTE PORTION OF A FLOOR OR STORY IS MORE THAN 150 FEET FROM A HOSE CONNECTION, ADDITIONAL HOSE CONNECTIONS SHALL BE PROVIDED IN APPROVED LOCATIONS. SEC. 905.4.
12. CLASS I MANUAL DRY STANDPIPES ARE ALLOWED IN OPEN PARKING GARAGE. SHALL BE PROVIDED THAT THE HOSE CONNECTIONS ARE LOCATED AS REQUIRED FOR CLASS II STANDPIPES IN ACCORDANCE WITH SEC. 905.5.
13. STANDPIPE OUTLETS MAY BE OMITTED IN PORTIONS OF FIRST FLOORS OR BASEMENTS THAT ARE COMPLETELY SEPARATED FROM THE ENTRANCE HALL OR ENCLOSED STAIRWAYS LEADING TO THE UPPER FLOORS, PROVIDED THAT POTABLE FIRE EXTINGUISHERS ARE INSTALLED, SUBJECT TO THE APPROVAL OF THE FIRE COMMISSIONER. SEC. 905.3.1.
14. UNDERGROUND BUILDINGS SHALL BE EQUIPPED THROUGHOUT WITH A CLASS I AUTOMATIC WET OR MANUAL WET.
15. CLASS I STANDPIPE HOSE CONNECTIONS SHALL BE PROVIDED IN ALL LOCATIONS PER SEC. 905.4 OF NYC BUILDING CODE.
16. WHERE THE ROOF HAS A SLOPE OF LESS THAN 4 IN 12, EACH STANDPIPE SHALL BE PROVIDED WITH A HOSE CONNECTION LOCATED EITHER ON THE ROOF OR AT THE HIGHEST LANDING OF STAIRWAYS WITH STAIR ACCESS TO THE ROOF. AN ADDITIONAL HOSE CONNECTION SHALL BE PROVIDED AT THE TOP OF THE MOST HYDRAULICALLY REMOTE STANDPIPE FOR TESTING PURPOSE.
17. PROTECTION OF RISERS AND LATERALS OF CLASS I STANDPIPE SYSTEM SHALL COMPLY WITH SEC. 905.4.1 OF NYC BUILDING CODE.
18. CLASS I STANDPIPE HOSE CONNECTIONS SHALL BE ACCESSIBLE AND LOCATED SO THAT ALL PORTIONS OF THE BUILDING ARE WITHIN 30 FEET (9144 mm) OF A NOZZLE ATTACHED TO 100 FEET (30480 mm) OF HOSE.
19. IN FULLY SPRINKLERED BUILDINGS HAVING A COMBINED STANDPIPE SYSTEM THAT IS HYDRAULICALLY CALCULATED, THE MINIMUM STANDPIPE SIZE IN BUILDINGS WITH FLOOR HEIGHTS LESS THAN 150 FT. ABOVE THE LOWEST LEVEL OF FIRE DEPARTMENT VEHICLE ACCESS SHALL BE 4 IN. SEC. 7.6.3 OF APPENDIX Q.
20. CLASS II STANDPIPE SYSTEMS SHALL HAVE HOSE CONNECTIONS LOCATED AS REQUIRED FOR CLASS I STANDPIPES IN SEC. 905.4 AND SHALL HAVE CLASS II HOSE CONNECTIONS AS REQUIRED IN SEC. 905.5.
21. CABINETS CONTAINING FIRE-FIGHTING EQUIPMENT SUCH AS STANDPIPES, FIRE HOSES, FIRE EXTINGUISHERS OR FIRE DEPARTMENT VALVES SHALL NOT BE BLOCKED FROM USE OR OBSCURED FROM VIEW.
22. STANDPIPE SYSTEMS ARE REQUIRED DURING CONSTRUCTION, ALTERATION AND RENOVATION OPERATIONS. REMEDIATION OPERATIONS SHALL BE PROVIDED IN ACCORDANCE WITH SEC. 303.8 OF NYC BUILDING CODE.
23. CLASS II STANDPIPE SYSTEMS ARE PERMITTED FOR HIGH PILE AND RACK STORAGE OCCUPANCIES ONLY. SEC. 33.2.2 OF APPENDIX Q.
24. FITTINGS SHALL BE EXTRA-HEAVY PATTERN WHERE PRESSURES EXCEED 175 PSI (12.1 BAR). SEC. 4.3.3 OF NFPA 14-2003.
25. PROTECTION OF STANDPIPE SYSTEM WHERE A STANDPIPE OR LATERAL PIPE THAT IS NORMALLY FILLED WITH WATER PASSES THROUGH AN AREA SUBJECT TO FREEZING TEMPERATURES IT SHALL BE PROTECTED TO MAINTAIN THE TEMPERATURE OF THE WATER IN THE PIPING BETWEEN 40 F AND 120 F (4.4 C AND 48.9 C). SEC. 6.1.2.3 OF NFPA 14-2003.
26. FIRE DEPARTMENT CONNECTIONS SHALL BE LOCATED NOT LESS THAN 18 IN. NOR MORE THAN 36 IN. ABOVE THE LEVEL OF THE ADJOINING GROUND, SIDEWALK OR GRADE SURFACE. SEC. 6.3.6 OF NFPA 14-2003.
27. THE MAXIMUM PRESSURE AT ANY POINT IN THE SYSTEM AT ANY TIME SHALL NOT EXCEED 350 PSI (24.1 BAR). SEC. 7.2 OF NFPA 14-2003.
28. BRANCH LINE SHALL BE SIZED BASED ON THE HYDRAULIC CRITERIA ESTABLISHED IN SEC. 7.8 & 7.10 BUT NOT LESS THAN 2 1/2" IN. (65 mm). SEC. 7.8.4 OF NFPA 14-2003.
29. HYDRAULICALLY DESIGNED STANDPIPE SYSTEMS SHALL BE DESIGNED TO PROVIDE THE WATER FLOW RATE AT A MINIMUM RESIDUAL PRESSURE OF 65 PSI (4.5 BAR) AT THE OUTLET OF THE HYDRAULICALLY MOST REMOTE 2 1/2" IN. (65 mm) & 1 1/2" IN. (38 mm) HOSE CONNECTION. SEC. 7.8.1.1 OF NFPA 14-2003.
30. HOSE CONNECTIONS AND HOSE STATIONS SHALL BE UNOBSTRUCTED AND SHALL BE LOCATED NOT LESS THAN 3 FT. (0.9 M) OR MORE THAN 5 FT. (1.5 M) ABOVE THE FLOOR. SEC. 7.3.1 OF NFPA 14-2003.
31. AT THE TOP OF THE HIGHEST RISER THERE SHALL BE PROVIDED ABOVE THE MAIN ROOF LEVEL A THREE WAY MANIFOLD EQUIPPED WITH THREE 2 1/2" IN. HOSE VALVE WITH HOSE VALVE CAPS. SEC. 7.3.2.2 OF APPENDIX Q.
32. WHERE THE RESIDUAL PRESSURE AT A 1 1/2" IN. (40 mm) OUTLET ON A HOSE CONNECTION EXCEED 100 PSI (6.9 BAR), AN APPROVED PRESSURE RESTRICTED DEVICE SHALL BE PROVIDED. SEC. 7.8.3.1 OF NFPA 14-2003.
33. FOR CLASS I AND CLASS II SYSTEMS THE MINIMUM FLOW RATE FOR THE HYDRAULICALLY MOST REMOTE STANDPIPE SHALL BE 500 GPM (1893 L/MIN) SEC. 7.10.1.1.1 OF NFPA 14-2003.
34. WHERE A HORIZONTAL STANDPIPE ON A CLASS I AND CLASS II SYSTEM SUPPLIES THREE OR MORE HOSE CONNECTIONS ON ANY FLOOR, THE MINIMUM FLOW RATE FOR THE HYDRAULICALLY MOST DEMANDING HORIZONTAL STANDPIPE SHALL BE 750 GPM (2840 L/MIN). SEC. 7.10.1.1.2 OF NFPA 14-2003.
35. THE MINIMUM FLOW RATE FOR ADDITIONAL STANDPIPES SHALL BE 250 GPM PER STANDPIPE WITH THE TOTAL NOT TO EXCEED 1250 GPM OR 1000 GPM FOR BUILDINGS SPRINKLERED THROUGHOUT. SEC. 7.10.1.1.3 OF NFPA 14-2003.
36. CLASS I AND CLASS II STANDPIPES IN BUILDINGS WITH FLOOR HEIGHTS LESS THAN 150 FT. ABOVE GRADE PLANE SHALL BE AT LEAST 4 INCHES IN SIZE. STANDPIPES IN BUILDINGS WITH FLOOR HEIGHTS GREATER THAN 150 FT ABOVE GRADE PLANE SHALL BE NO LESS THAN 6 INCHES IN DIAMETER. SEC. 7.6.1 OF APPENDIX Q.
37. VALVES CONTROLLING WATER SUPPLIES SHALL BE SUPERVISED IN THE OPEN POSITION SO THAT A CHANGE IN THE NORMAL POSITION OF THE VALVE WILL GENERATE A SUPERVISORY SIGNAL AT THE SUPERVISING STATION REQUIRED BY SECTION 903.4 WHERE A FIRE ALARM SYSTEM IS PROVIDED, A SIGNAL SHALL ALSO BE TRANSMITTED TO THE CONTROL UNIT.

SPRINKLER GENERAL NOTES:

1. AUTOMATIC SPRINKLER SYSTEM SHALL COMPLY WITH SEC. 903 & APPENDIX Q OF NYC BUILDING CODE & NFPA 13-2002.
2. CONSTRUCTION DOCUMENTS FOR STANDPIPE SYSTEM SHALL CONTAIN PLANS THAT INCLUDE THE INFORMATION AND DATA LISTED IN SEC. 903.1.2 OF NYC BUILDING CODE.
3. APPROVED AUTOMATIC SPRINKLER SYSTEM IN NEW BUILDINGS AND STRUCTURES SHALL BE PROVIDED IN THE LOCATIONS DESCRIBED IN SEC. 903.2 OF NYC BUILDING CODE.
4. AUTOMATIC SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH SEC. 903.3.1 THROUGH 903.3.7 OF NYC BUILDING CODE.
5. WHERE THE PROVISIONS OF NYC BUILDING CODE REQUIRE THAT A BUILDING OR PORTION THERE OF BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SEC. 903.3.1.1, SPRINKLERS SHALL BE INSTALLED THROUGHOUT IN ACCORDANCE WITH NFPA 13 AS MODIFIED IN APPENDIX Q EXCEPT AS PROVIDED IN SEC. 903.3.1.1.1 OF NYC BUILDING CODE.
6. AUTOMATIC SPRINKLERS SHALL NOT BE REQUIRED IN THE ROOMS OR AREAS WHICH ARE LISTED IN 903.3.1.1.1 OF NYC BUILDING CODE AS LONG AS AN APPROVED AUTOMATIC FIRE DETECTION SYSTEM IN ACCORDANCE WITH SEC. 907.2 AND AN ALTERNATIVE EXTINGUISHING SYSTEM IN ACCORDANCE INSTALLED IN ACCORDANCE WITH SECTIONS 903.3.1 THROUGH WITH SECTION 904.
7. SPRINKLERS SHALL NOT BE OMITTED FROM ANY ROOM MERELY BECAUSE IT IS DAMP, OF FIRE-RESISTANCE-RATED CONSTRUCTION OR CONTAINS ELECTRICAL EQUIPMENT.
8. WHERE ALLOWED IN BUILDINGS OF GROUP R, UP TO AND INCLUDING SIX STORES IN HEIGHT, AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT IN ACCORDANCE WITH NFPA 13 R AS MODIFIED IN APPENDIX Q 903.3.1.2 OF NYC BUILDING CODE.
9. WHERE AUTOMATIC SPRINKLER SYSTEM ARE REQUIRED BY NYC BUILDING CODE, QUICK-RESPONSE OR RESIDENTIAL AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN THE AREAS LISTED SEC. 903.3.2 OF NYC BUILDING CODE.
10. AUTOMATIC SPRINKLERS SHALL BE INSTALLED WITH DUE REGARD TO OBSTRUCTIONS THAT WILL DELAY ACTIVATION OR OBSTRUCT THE WATER DISTRIBUTION PATTERN. AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN OR UNDER COVERED KIOSKS, DISPLAYS, BOOTH, CONCESSION STANDS, OR EQUIPMENT THAT EXCEEDS 4 FEET IN WIDTH, NOT LESS THAN 3 FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN AUTOMATIC SPRINKLERS AND TOP OF PILES OF COMBUSTIBLE FIBERS SEC. 903.3.3 OF NYC BUILDING CODE.
11. WATER SUPPLIES FOR AUTOMATIC SPRINKLER SYSTEM SHALL COMPLY WITH SEC. 903.3.5 OF NYC BUILDING CODE AND SEC. 903.3.1 THE POTABLE WATER SUPPLY SHALL BE PROTECTED AGAINST BACK FLOW IN ACCORDANCE WITH THE REQUIREMENTS OF SEC.903.3.5 THE NYC PLUMBING CODE, AND RULES OF THE NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION.
12. A SECONDARY ON-SITE WATER SUPPLY EQUAL TO THE HYDRAULICALLY CALCULATED SPRINKLER DEMAND, INCLUDING THE HOSE STREAM REQUIREMENT, SHALL BE PROVIDED FOR HIGH-RISE BUILDINGS IN SEISMIC DESIGN CATEGORY "C" OR "D" AS DETERMINED BY THIS CODE, AND IN ANY HIGH-RISE BUILDING GREATER THAN 300 FEET IN HEIGHT, THE SECONDARY WATER SUPPLY SHALL HAVE A DURATION NOT LESS THAN 30 MINUTES AS DETERMINED BY THE OCCUPANCY HAZARD CLASSIFICATION IN ACCORDANCE WITH NFPA 13-2002.
13. FIRE HOSE THREADS USED IN CONNECTION WITH AUTOMATIC SPRINKLER SYSTEMS SHALL BE APPROVED AND COMPATIBLE WITH FIRE DEPARTMENT HOSE THREADS.
14. ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEM, PUMPS, TANKS, WATER LEVELS AND TEMPERATURES, CRITICAL AIR PRESSURES AND WATER-FLOW SWITCHES ON ALL SPRINKLER SYSTEM SHALL BE ELECTRICALLY SUPERVISED BY THE FIRE ALARM SYSTEM.
15. APPROVED SUPERVISED INDICATING CONTROL VALVES SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE RISER ON EACH FLOOR IN HIGH-RISE BUILDINGS.
16. THE DOCUMENTS OR PORTIONS THERE OF LISTED IN CHAPTER 2 OF NFPA 13-2002 ARE REFERENCED WITHIN NFPA-13 AND SHALL BE CONSIDERED PART OF THE REQUIREMENTS OF THIS DOCUMENT.
17. OCCUPANCY CLASSIFICATION SHALL COMPLY WITH CHAPTER 5 OF NFPA 13-2002.
18. PROTECTION REQUIREMENTS FOR MIXED COMMODITIES SHALL BE ACCORDANCE WITH SEC. 5.6.1.2 OF NFPA 13-2002.
19. REQUIREMENTS FOR CORRECT USE OF SPRINKLER SYSTEM COMPONENTS SHALL COMPLY WITH CHAPTER 6 OF NFPA 13-2002.
20. THE K-FACTOR, RELATIVE DISCHARGE, AND MARKING IDENTIFICATION FOR SPRINKLERS HAVING DIFFERENT ORifice SIZES SHALL BE IN ACCORDANCE WITH TABLE 6.2.3.1 OF NFPA 13-2002.
21. LARGE DROP AND ESFR SPRINKLERS SHALL HAVE A MINIMUM NOMINAL K-FACTOR OF 11.2.
22. AUTOMATIC SPRINKLERS SHALL HAVE THEIR FRAME ARMS, DEFLECTOR, COATING MATERIAL, OR LIQUID BULB COLORED IN ACCORDANCE WITH THE REQUIREMENTS OF TABLE 6.2.5.1 OF NFPA 13-2002.
23. LISTED CORROSION RESISTANT SPRINKLER SHALL BE INSTALLED IN LOCATIONS WHERE CHEMICALS, MOISTURE, OR OTHER CORROSIVE VAPORS SUFFICIENT TO CAUSE CORROSION OF SUCH DEVICES EXIST.
24. ALL CONTROL, DRAIN, AND TEST CONNECTION VALVES SHALL BE PROVIDED WITH PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC IDENTIFICATION SIGNS. SEC. 6.7.4.1 OF NFPA 13-2002.
25. FIRE DEPARTMENT CONNECTIONS SHALL BE EQUIPPED WITH LISTED PLUGS OR CAPS, PROPERLY SECURED AND ARRANGED FOR EASY REMOVAL BY THE FIRE DEPARTMENT. SEC. 6.8.4 OF NFPA 13-2002.
26. REQUIREMENTS OF DRY PIPE SYSTEM INSTALLATION SHALL COMPLY WITH SEC. 7.2 OF NFPA 13-2002.
27. REQUIREMENTS OF PREACTION & DELUGE SYSTEM INSTALLATION SHALL COMPLY WITH SEC. 7.3 OF NFPA 13-2002.
28. OUTSIDE SPRINKLERS FOR PROTECTION AGAINST EXPOSURE FIRE SHALL COMPLY WITH SEC. 7.7 OF NFPA 13-2002.
29. THE MAXIMUM FLOOR AREA OR ANY ONE FLOOR TO BE PROTECTED BY A SINGLE RISER FROM A CONTROL VALVE AND ALARM DEVICE SHALL COMPLY WITH SEC. 8.2.1 OF NFPA 13-2002.
30. WHERE CIRCUMSTANCES REQUIRE THE USE OF OTHER THAN ORDINARY TEMPERATURE-RATED SPRINKLERS, STANDARD RESPONSE SPRINKLERS SHALL BE PERMITTED TO BE USED SEC. 8.3.3 OF NFPA 13-2002.
31. WHEN EXISTING LIGHT HAZARD SYSTEMS ARE CONVERTED TO USE QUICK-RESPONSE OR RESIDENTIAL SPRINKLERS ALL SPRINKLERS IN A COMPARTMENTED SPACE SHALL BE CHANGED. SEC. 8.3.3.4 OF NFPA 13-2002.
32. SPRINKLERS OF INTERMEDIATE AND HIGH TEMPERATURE RATINGS SHALL BE INSTALLED IN SPECIFIC LOCATIONS AS REQUIRED BY SEC. 8.3.2 OF NFPA 13-2002.
33. SPRINKLERS SHALL BE LOCATED, SPACED AND POSITIONED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 8.5.
34. PROTECTION AREAS AND MAXIMUM SPACING FOR EACH HAZARD SHALL COMPLY WITH TABLE 8.6.2.2.1 (a) (b) (c) (d) OF NFPA 13-2002.
35. REQUIREMENTS OF DWELLING UNITS PROTECTION SHALL COMPLY WITH SEC. 8.14.8 OF NFPA 13-2002.
36. REQUIREMENTS OF STAGES AREA PROTECTION SHALL COMPLY WITH SEC. 8.14.15 OF NFPA 13-2002.
37. DRAIN CONNECTIONS FOR SYSTEMS SUPPLY RISERS AND MAINS SHALL BE SIZED AS SHOWN IN TABLE 8.15.2.4.2 OF APPENDIX Q-NYC BUILDING CODE.
38. TYPES OF HANGERS SHALL BE ACCORDANCE WITH THE REQUIREMENT OF SEC. 9.1. OF NFPA 13-2002.
39. MAXIMUM DISTANCE BETWEEN HANGERS SHALL BE COMPLY WITH TABLE 9.2.2.1 OF NFPA 13-2002.
40. HOSE STREAM DEMAND AND WATER SUPPLY DURATION REQUIREMENT SHALL COMPLY WITH TABLE 11.2.3.1.1 OF NFPA 13-2002.
41. THE WATER SUPPLY FOR SPRINKLERS SHALL BE DETERMINED BY DENSITY/AREA CURVE, FIGURE 11.2.3.1.5 OF NFPA 13-2002.
42. HYDRAULIC DESIGN AREA REDUCTION FOR QUICK RESPONSE SPRINKLERS SHALL COMPLY WITH FIGURE 11.2.3.2.3.1 OF NFPA 13-2002.



PLOT PLAN
N.T.S.

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Scale: 0 SC-05 SC1 SC1.5 SC2.5 SC3.25 SC4.5 SC6.25 SC7.5 SC9.0 SC10.5 SC12.0 SC13.5 SC15 SC16.5 SC18 SC19.5 SC21 SC22.5 SC24 SC25.5 SC27 SC28.5 SC30 SC31.5 SC33 SC34.5 SC36 SC37.5 SC39 SC40.5 SC42 SC43.5 SC45 SC46.5 SC48 SC49.5 SC51 SC52.5 SC54 SC55.5 SC57 SC58.5 SC60 SC61.5 SC63 SC64.5 SC66 SC67.5 SC69 SC70.5 SC72 SC73.5 SC75 SC76.5 SC78 SC79.5 SC81 SC82.5 SC84 SC85.5 SC87 SC88.5 SC90 SC91.5 SC93 SC94.5 SC96 SC97.5 SC99 SC100.5 SC102 SC103.5 SC105 SC106.5 SC108 SC109.5 SC111 SC112.5 SC114 SC115 SC116.5 SC118 SC119.5 SC121 SC122.5 SC124 SC125.5 SC127 SC128.5 SC130 SC131.5 SC133 SC134.5 SC136 SC137.5 SC139 SC140.5 SC142 SC143.5 SC145 SC146.5 SC148 SC149.5 SC150 SC151.5 SC153 SC154.5 SC156 SC157.5 SC159 SC160.5 SC162 SC163.5 SC165 SC166.5 SC168 SC169.5 SC171 SC172.5 SC174 SC175 SC176.5 SC178 SC179.5 SC181 SC182.5 SC184 SC185.5 SC187 SC188.5 SC190 SC191.5 SC193 SC194.5 SC196 SC197.5 SC199 SC200.5 SC202 SC203.5 SC205 SC206.5 SC208 SC209.5 SC211 SC212.5 SC214 SC215 SC216.5 SC218 SC219.5 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SC1606.5 SC1608 SC1609.5 SC1611 SC1612.5 SC1614 SC1615 SC1616.5 SC1618 SC1619.5 SC1621 SC1622.5 SC1624 SC1

RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

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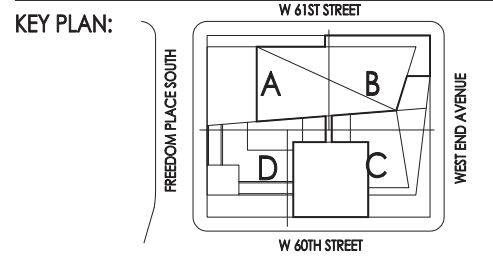
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No.	Date	Revisions
7	11/20/2012	PLUMB RESUBMISSION TO DOB
6	09/28/2012	BAS CO SET
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1	07/15/2011	DESIGN DEVELOPMENT


NORTH ARROW

Scale: 0 SC-05 SC1 SCX1.5 SCX2.5

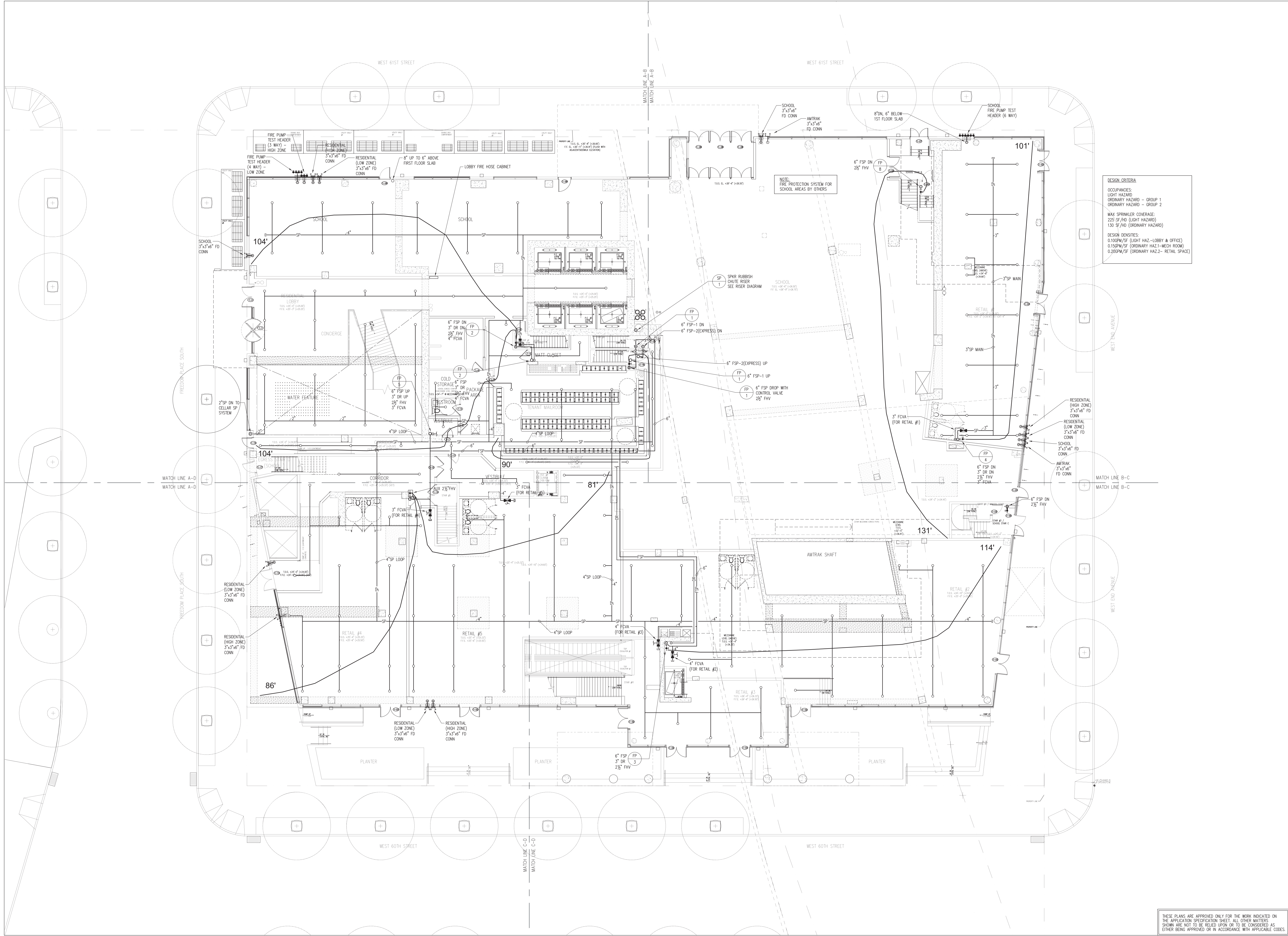


PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

DRAWING TITLE:
**FIRE PROTECTION
CELLAR MEZZANINE FLOOR PLAN**

SEAL & SIGNATURE:  DATE: JULY 15, 2011
PROJECT NO.:
DRAWN BY: IC
CHECKED BY: LB
DRAWING NO.:
FP-100M.00
CADD FILE NO.:
W-304

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DESIGN CRITERIA

OCCUPANCIES:
LIGHT HAZARD
ORDINARY HAZARD - GROUP 1
ORDINARY HAZARD - GROUP 2

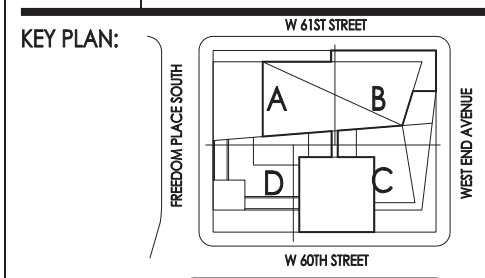
MAX SPRINKLER COVERAGE:
225 SF/HZ (LIGHT HAZARD)
130 SF/HZ (ORDINARY HAZARD)

DESIGN DENSITIES:
0.10GPM/SF (LIGHT HAZ - LOBBY & OFFICE)
0.15GPM/SF (ORDINARY HAZ-1-MECH ROOM)
0.20GPM/SF (ORDINARY HAZ-2 - RETAIL SPACE)

Cristian Petrescu
Buildings
APPROVED
Under Directive 2 of 1975
Date/Time: Jun 26, 2013 - 10:06 AM
NYC Development Hub

No.	Date	Revisions
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7	11/20/2012	PLUMB REVISIONS TO DOB

Scale: 0 SC-05 SC1 SCX15 SCX25



PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

DRAWING TITLE:
**FIRE PROTECTION
FIRST FLOOR PLAN**

SEAL & SIGNATURE:
PROJECT NO. 277465
DRAWN BY: IC
CHECKED BY: LB
DRAWING NO. **FP-101.00**
CADD FILE NO. N/A

DATE: JULY 15, 2011

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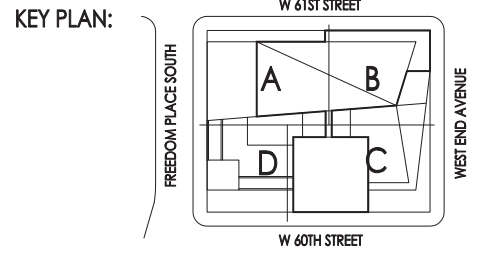
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Scale: 0 SC-05 SC1 SC1.5 SC2.5
NORTH ARROW

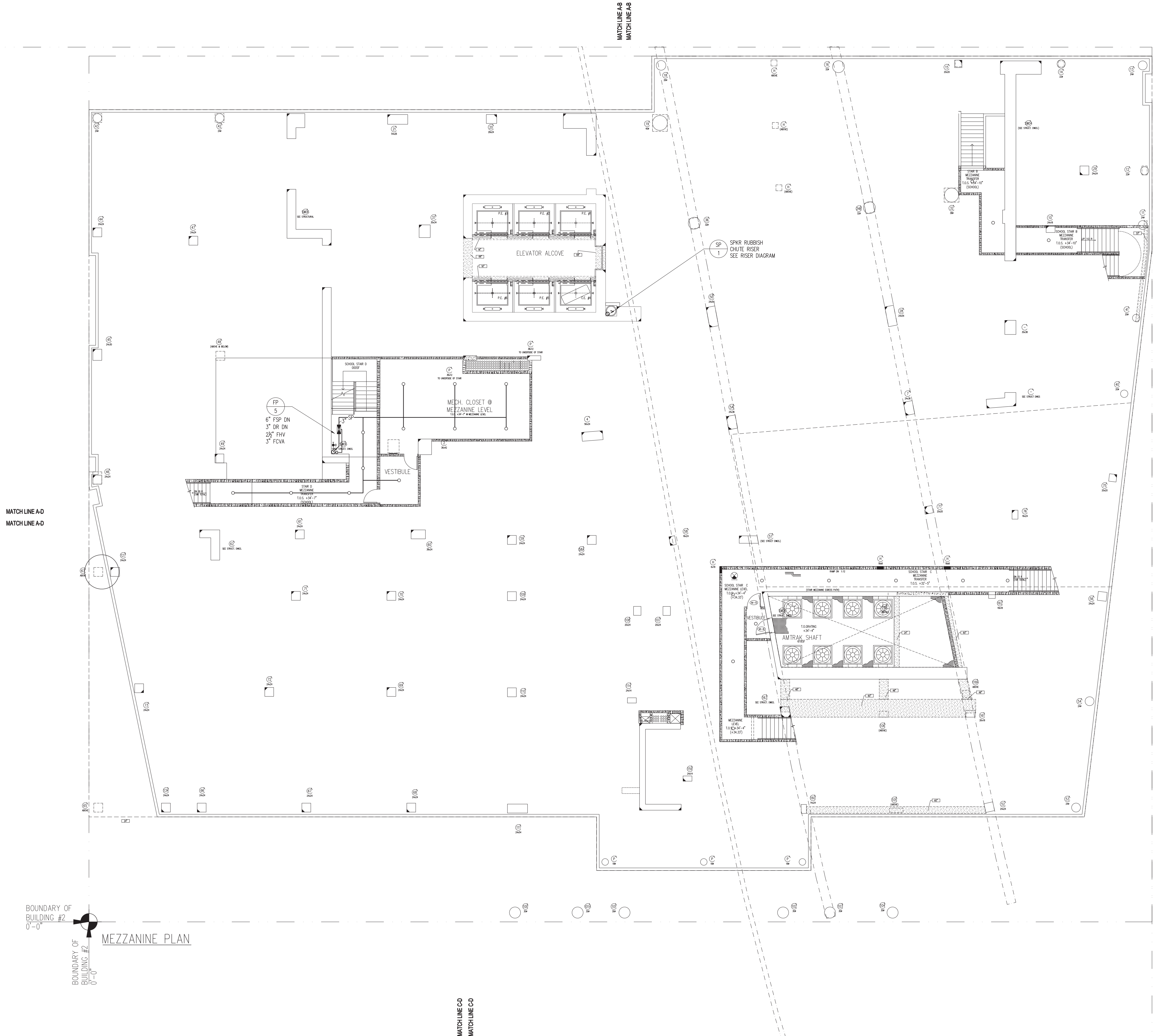


PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

DRAWING TITLE:
**FIRE PROTECTION
MEZZANINE FLOOR PLAN**

SEAL & SIGNATURE: PROJECT NO. DATE: JULY 15, 2011
DRAWN BY: IC
CHECKED BY: LB
DRAWING NO. **FP-101M.00**
CADD FILE NO. W-004

THESE PLANS ARE APPROVED ONLY FOR THE 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.



MEZZANINE PLAN

RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

423 WEST 47TH STREET
NEW YORK, NY 10036
T: 212.718.4233
F: 212.749.2893

ARCHITECT OF RECORD:
SLCE Architects

841 BROADWAY
NEW YORK, NY 10003
T: 212.579.8400
F: 212.579.8387

STRUCTURAL ENGINEER:
WSP CANTOR SEINUK

228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T: 212.487.8888
F: 212.487.5501

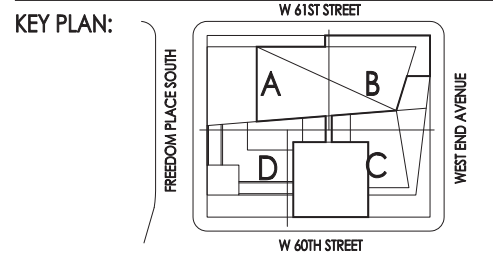
MECHANICAL ENGINEER:
WSP FLACK+KURTZ

512 SEVENTH AVENUE
NEW YORK, NY 10017
T: 212.532.9600



7	11/20/2012	PLUMB REVISIONS TO DOB
6	09/28/2012	BAS CO SET
5	08/22/2012	PROCESS SET
4	07/02/2012	ISSUED TO DOB
3	12/08/2011	BAS CONSTRUCTION DOCUMENT
2	09/15/2011	SBS CONSTRUCTION DOCUMENT
1	07/15/2011	DESIGN DEVELOPMENT

No.	Date	Revisions
0		SC-05 SC-11 SC-K15 SC-K25



PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

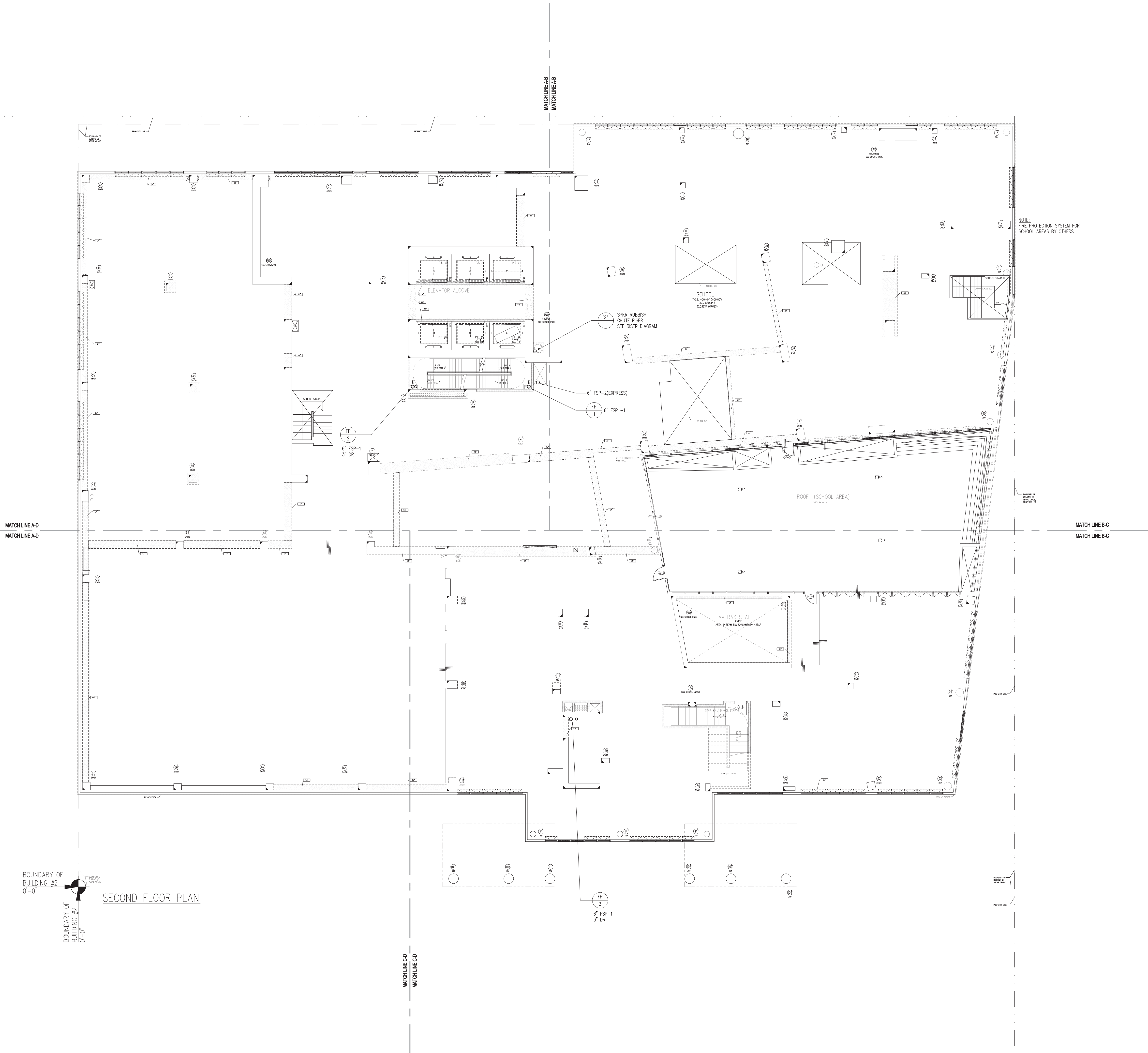
DRAWING TITLE:
**FIRE PROTECTION
SECOND FLOOR PLAN**

SEAL & SIGNATURE: PROJECT NO. DATE: JULY 15, 2011

DRAWN BY: IC CHECKED BY: LB DRAWING NO. FP-102.00

CADD FILE NO. IN-02

THESE PLANS ARE APPROVED ONLY FOR THE 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.



RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

423 WEST 47TH STREET
NEW YORK, NY 10047
T: 212.218.4233
F: 212.249.2893

ARCHITECT OF RECORD:
SLCE Architects
841 BROADWAY
NEW YORK, NY 10003
T: 212.579.8400
F: 212.579.8387

STRUCTURAL ENGINEER:
WSP CANTOR SEINUK
228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T: 212.487.8888
F: 212.487.5501

MECHANICAL ENGINEER:
WSP FLACK+KURTZ
512 SEVENTH AVENUE
NEW YORK, NY 10017
T: 212.532.9600

NOTE:
FIRE PROTECTION SYSTEM FOR SCHOOL AREAS BY OTHERS

MATCH LINE A-D
MATCH LINE A-D

MATCH LINE B-C
MATCH LINE B-C

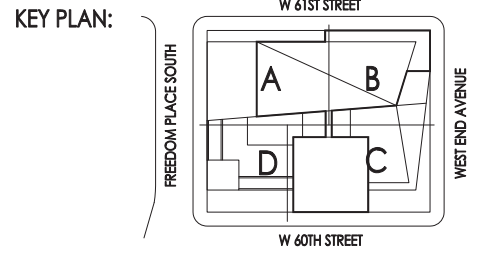
BOUNDARY OF
BUILDING #2
0'-0"

THIRD FLOOR PLAN
SCALE: 1/8"=1'-0"

MATCH LINE C-D
MATCH LINE C-D

- | | | |
|---|------------|---------------------------|
| 7 | 11/20/2012 | PLUMB REVISIONS TO DOB |
| 6 | 09/28/2012 | BAS CO SET |
| 5 | 08/22/2012 | PROCESS SET |
| 4 | 07/02/2012 | ISSUED TO DOB |
| 3 | 12/08/2011 | BAS CONSTRUCTION DOCUMENT |
| 2 | 09/15/2011 | SBS CONSTRUCTION DOCUMENT |
| 1 | 07/15/2011 | DESIGN DEVELOPMENT |

Scale: 0 SC-05 SC1 SCX15 SCX25



PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

DRAWING TITLE:
**FIRE PROTECTION
THIRD FLOOR PLAN**

SEAL & SIGNATURE:

DATE: JULY 15, 2011

PROJECT NO:

DRAWN BY: IC

CHECKED BY: LB

DRAWING NO: FP-103.00

CADD FILE NO:

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RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

425 WEST 47TH STREET
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T: 212.218.4233
F: 212.249.2893

ARCHITECT OF RECORD:
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841 BROADWAY
NEW YORK, NY 10003
T: 212.579.8400
F: 212.579.8387

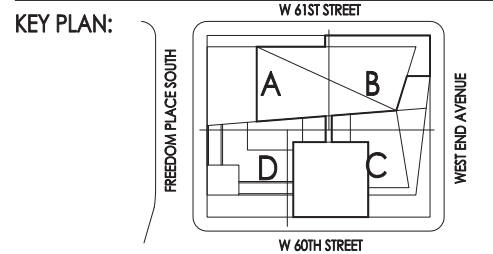
STRUCTURAL ENGINEER:
WSP CANTOR SEINUK
228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T: 212.487.8888
F: 212.487.5501

MECHANICAL ENGINEER:
WSP FLACK+KURTZ
512 SEVENTH AVENUE
NEW YORK, NY 10017
T: 212.532.9600



7	11/20/2012	PLUMB REVISIONS TO DOB
6	09/28/2012	BAS CO SET
5	08/22/2012	PROCESS SET
4	07/02/2012	ISSUED TO DOB
3	12/08/2011	BAS CONSTRUCTION DOCUMENT
2	09/15/2011	SBS CONSTRUCTION DOCUMENT
1	07/15/2011	DESIGN DEVELOPMENT

No:	Date:	Revisions:
0		SC-05 SC-11 SC-K15 SC-K25

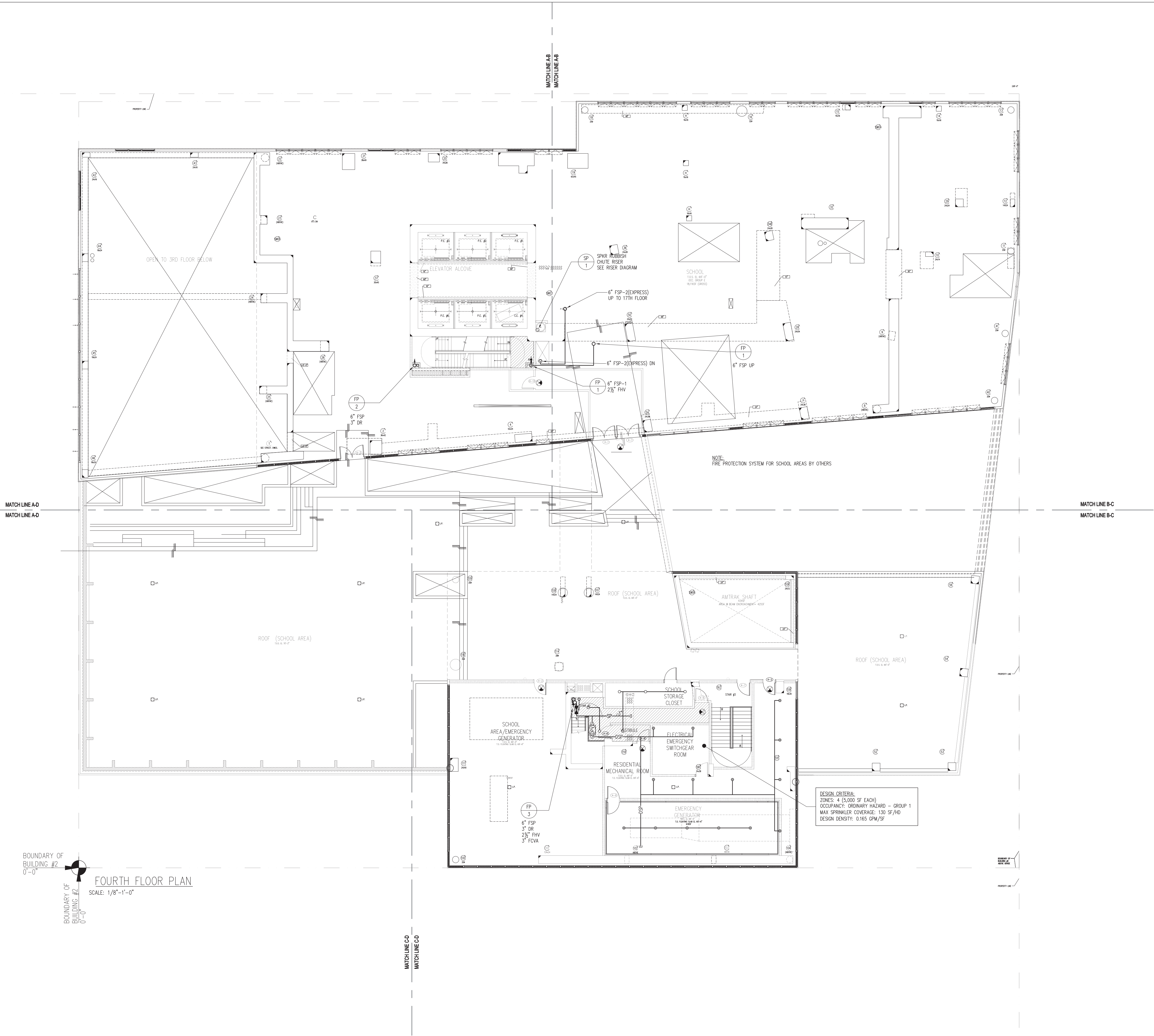


PROJECT:
RIVERSIDE CENTER
BUILDING 2

DRAWING TITLE:
FIRE PROTECTION
FOURTH FLOOR PLAN

SEAL & SIGNATURE:	DATE: JULY 15, 2011
PROJECT NO:	77465
DRAWN BY: IC	CHECKED BY: LB
DRAWING NO:	FP-104.00
CADD FILE NO:	FP-01

THESE PLANS ARE APPROVED ONLY FOR THE 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.



BOUNDARY OF
BUILDING #2
0'-0"

FOURTH FLOOR PLAN
SCALE: 1/8"=1'-0"

RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

425 WEST 47TH STREET
NEW YORK, NY 10047
T: 212.218.4233
F: 212.219.2893

ARCHITECT OF RECORD:
SLCE Architects
841 BROADWAY
NEW YORK, NY 10003
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STRUCTURAL ENGINEER:
WSP CANTOR SEINUK
228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T: 212.687.8888
F: 212.687.5501

MECHANICAL ENGINEER:
WSP FLACK+KURTZ
512 SEVENTH AVENUE
NEW YORK, NY 10017
T: 212.532.9600

DESIGN CRITERIA:
ZONES: 5-1 (14,455 SF EACH)
OCCUPANCY: LIGHT HAZARD AND ORDINARY HAZARD - GROUP 1
MAX SPRINKLER COVERAGE: 400 SF/HZ (LIGHT HAZARD)
MAX SPRINKLER COVERAGE: 130 SF/HZ (ORDINARY HAZARD - GROUP 1)
DESIGN DENSITY: 0.10 GPM/SF (LIGHT HAZARD)
DESIGN DENSITY: 0.15 GPM/SF (ORDINARY HAZARD - MECH RM)

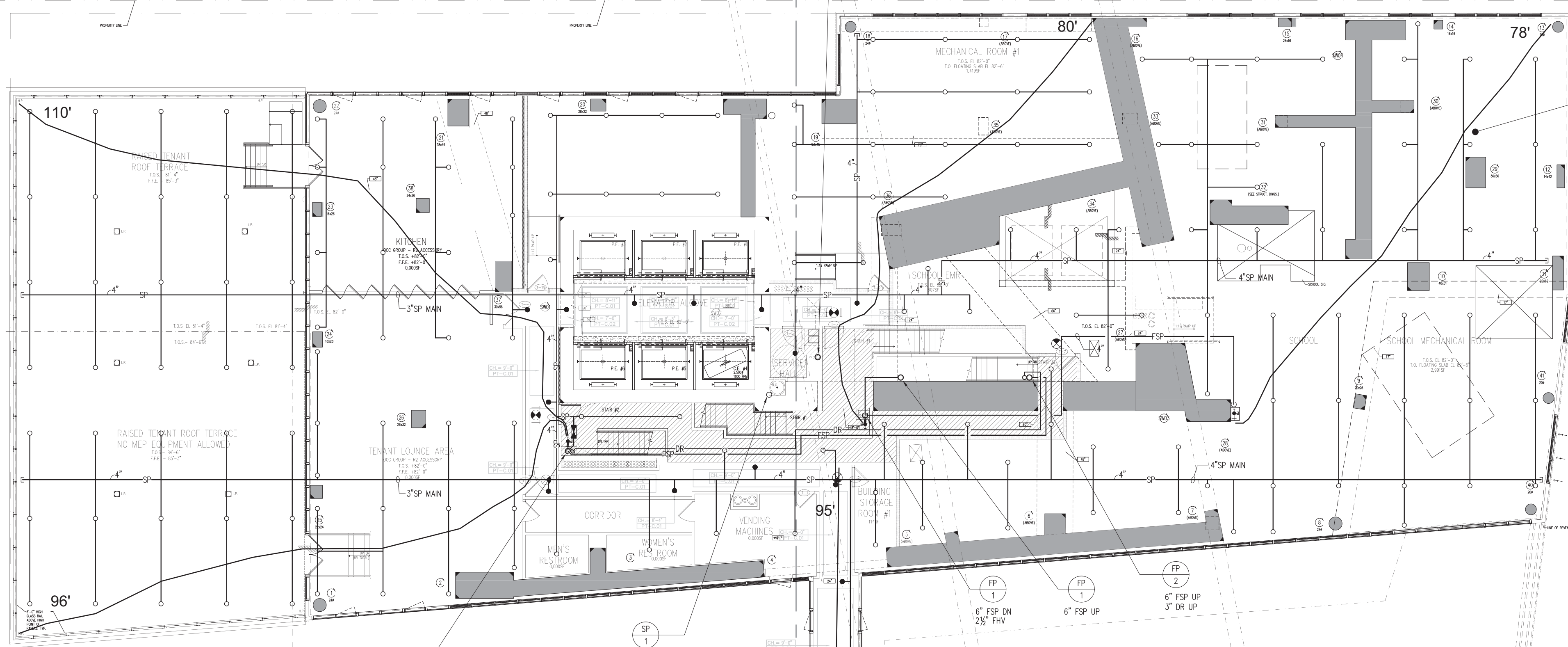
NOTES:
1) RESIDENTIAL AREAS WITH CEILING SHALL BE PROVIDED WITH EXTENDED COVERAGE CONCEALED SPRINKLER HEADS
2) RESIDENTIAL AREAS WITHOUT CEILING SHALL BE PROVIDED WITH EXTENDED COVERAGE SIDEWALL SPRINKLER HEADS
3) FSP RISERS IN STAIR #1 AND STAIR #2 SHALL BE LOCATED IN SEPARATE FIRE-RATED ENCLOSURE WITHIN STAIR

SPRINKLER BRANCH PIPING SIZING

PIPE SIZE	MAX # SPRINKLER HEAD ALLOWED
1"	2
1 1/4"	3
1 1/2"	5
2"	10

DESIGN CRITERIA:
ZONES: 5-2 (3,000 SF EACH)
OCCUPANCY: LIGHT HAZARD
MAX SPRINKLER COVERAGE: 320 SF/HZ
DESIGN DENSITY: 0.10 GPM/SF

NOTES:
1) RESIDENTIAL AREAS WITH CEILING SHALL BE PROVIDED WITH EXTENDED COVERAGE CONCEALED SPRINKLER HEADS
2) RESIDENTIAL AREAS WITHOUT CEILING SHALL BE PROVIDED WITH EXTENDED COVERAGE SIDEWALL SPRINKLER HEADS



MATCH LINE A-D
MATCH LINE A-D

MATCH LINE B-C
MATCH LINE B-C

BOUNDARY OF BUILDING #2
0'-0"

FIFTH FLOOR PLAN
SCALE: 1/8"=1'-0"

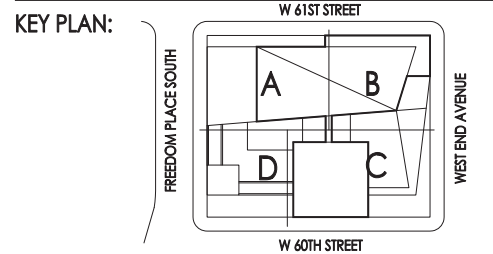
MATCH LINE C-D
MATCH LINE C-D

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7 11/20/2012 PLING RESUBMISSION TO DOB
6 09/28/2012 BMS CO SET
5 08/22/2012 PROGRESS SET
4 07/02/2012 ISSUED TO DOB
3 12/08/2011 BMS CONSTRUCTION DOCUMENT
2 09/15/2011 SRS CONSTRUCTION DOCUMENT
1 07/15/2011 DESIGN DEVELOPMENT

Scale: 0 5'-0" 10'-0" 15'-0" 20'-0" 25'-0" 30'-0" 35'-0" 40'-0" 45'-0" 50'-0" 55'-0" 60'-0" 65'-0" 70'-0" 75'-0" 80'-0" 85'-0" 90'-0" 95'-0" 100'-0"



PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

DRAWING TITLE:
**FIRE PROTECTION
FIFTH FLOOR PLAN**

SEAL & SIGNATURE:
PROJECT NO. JULY 15, 2011
DRAWN BY: IC
CHECKED BY: LB
DRAWING NO. **FP-105.00**
CADD FILE NO. 105

RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

423 WEST 47TH STREET
NEW YORK, NY 10036
T: 212.218.4233
F: 212.249.2893

ARCHITECT OF RECORD:
SLCE Architects
841 BROADWAY
NEW YORK, NY 10003
T: 212.579.8400
F: 212.579.8387

STRUCTURAL ENGINEER:
WSP CANTOR SEINUK
228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T: 212.687.8888
F: 212.687.5501

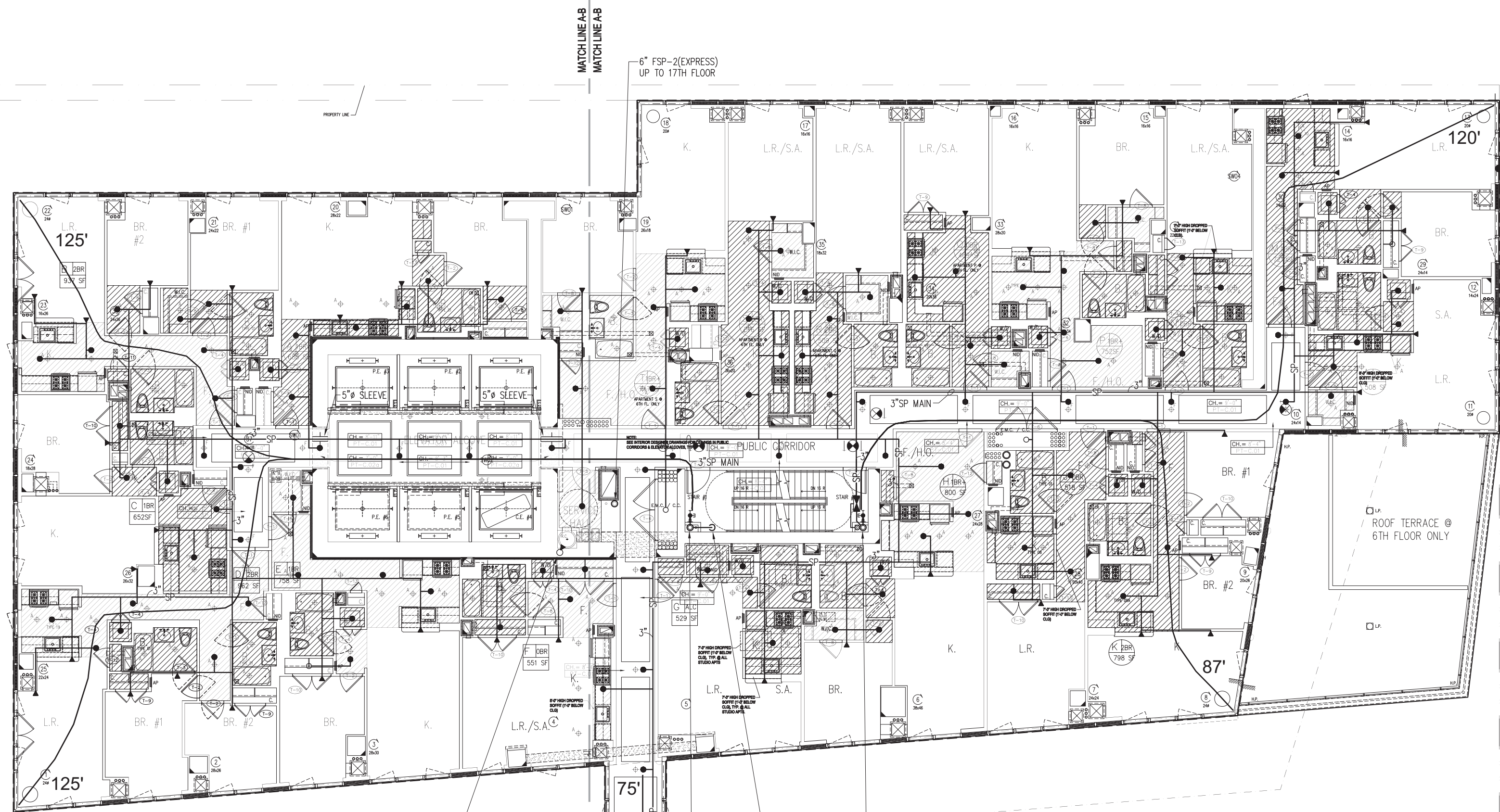
MECHANICAL ENGINEER:
WSP FLACK+KURTZ
512 SEVENTH AVENUE
NEW YORK, NY 10017
T: 212.532.9600

DESIGN CRITERIA:
ZONES: G-1 THROUGH 11-1 (14,455 SF EACH)
OCCUPANCY: LIGHT HAZARD
MAX SPRINKLER COVERAGE: 400 SF/HZ
DESIGN DENSITY: 0.10 GPM/SF

NOTES:
1) RESIDENTIAL AREAS WITH CEILING SHALL BE PROVIDED WITH EXTENDED COVERAGE CONCEALED SPRINKLER HEADS
2) RESIDENTIAL AREAS WITHOUT CEILING SHALL BE PROVIDED WITH EXTENDED COVERAGE SIDEWALL SPRINKLER HEADS
3) FSP RISERS IN STAIR #1 AND STAIR #2 SHALL BE LOCATED IN SEPARATE FIRE-RATED ENCLOSURE WITHIN STAIR

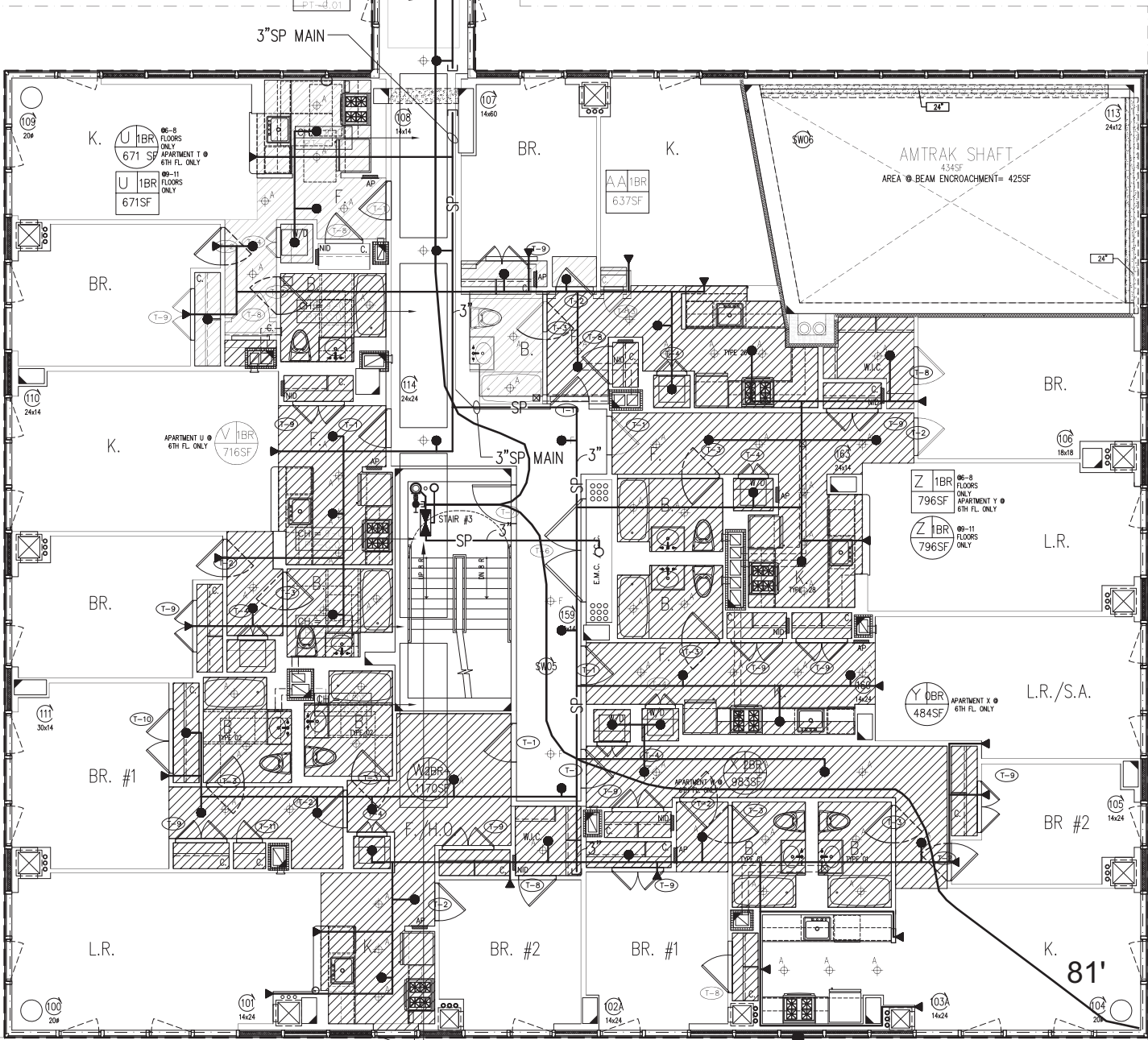
SPRINKLER BRANCH PIPING SIZING

PIPE SIZE	MAX # SPRINKLER HEAD ALLOWED
1"	2
1 1/4"	3
1 1/2"	5
2"	10



MATCHLINE A-D
MATCHLINE A-D

MATCHLINE B-C
MATCHLINE B-C



2 PART PLAN OF STAIRS #1 & #2 @ 6TH FLOOR

3 PART PLAN OF STAIRS #1 & #2 @ 11TH FLOOR

4 PART PLAN OF STAIRS #3 @ 6TH FLOOR

5 PART PLAN OF STAIRS #3 @ 11TH FLOOR

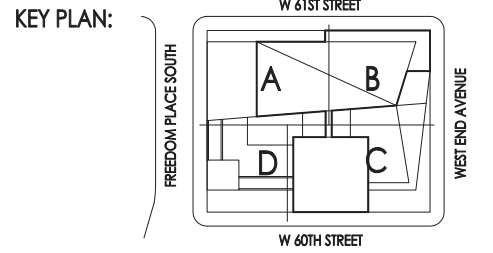
BOUNDARY OF BUILDING #2
0'-0"

6TH-11TH FLOOR PLAN

DESIGN CRITERIA:
ZONES: G-2 THROUGH 11-2 (5,000 SF EACH)
OCCUPANCY: LIGHT HAZARD
MAX SPRINKLER COVERAGE: 320 SF/HZ
DESIGN DENSITY: 0.10 GPM/SF

No.	Date	Revisions
7	11/20/2012	PLUMB REVISIONS TO DOB
6	09/28/2012	BAS CO SET
5	08/22/2012	PROCESS SET
4	07/02/2012	ISSUED TO DOB
3	12/08/2011	BAS CONSTRUCTION DOCUMENT
2	09/15/2011	SBS CONSTRUCTION DOCUMENT
1	07/15/2011	DESIGN DEVELOPMENT

NORTH ARROW
Scale: 0' 5'-05' 10'-10' 15'-15' 20'-20'



PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

DRAWING TITLE:
**FIRE PROTECTION
6TH-11TH FLOOR PLANS**

SEAL & SIGNATURE:
DATE: JULY 15, 2011
PROJECT NO.:
DRAWN BY: IC
CHECKED BY: LB
DRAWING NO.:
FP-106.00

STATE OF NEW YORK
JULY 15, 2011
CADD FILE NO.:
WSP

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RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

423 WEST 47TH STREET
NEW YORK, NY 10036
T: 212.218.4233
F: 212.249.2893

ARCHITECT OF RECORD:
SLCE Architects
841 BROADWAY
NEW YORK, NY 10003
T: 212.579.8400
F: 212.579.8387

STRUCTURAL ENGINEER:
WSP CANTOR SEINUK
228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T: 212.687.8888
F: 212.687.5501

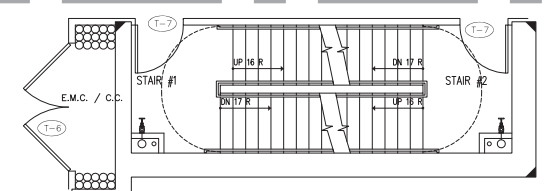
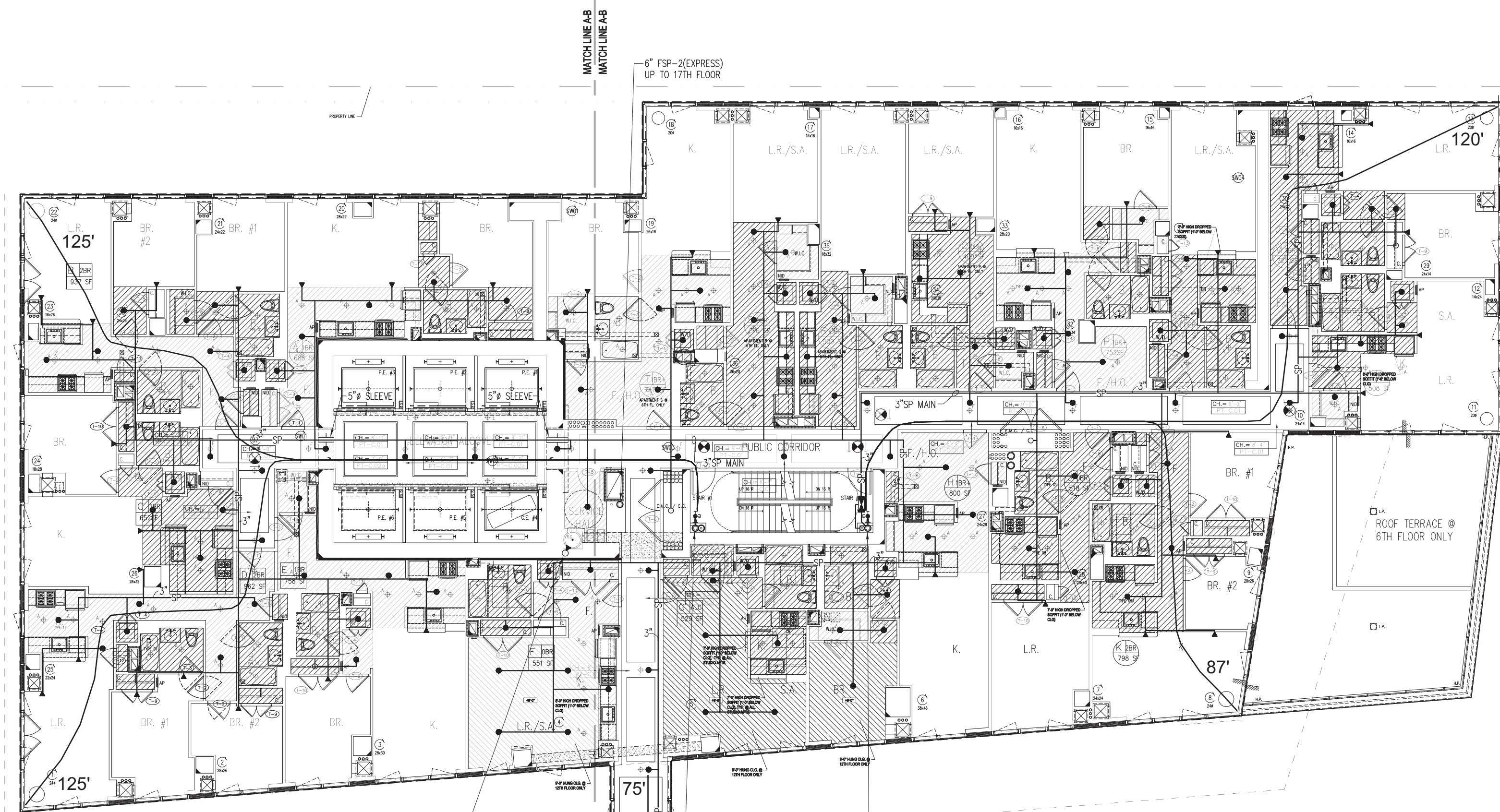
MECHANICAL ENGINEER:
WSP FLACK+KURTZ
512 SEVENTH AVENUE
NEW YORK, NY 10017
T: 212.532.9600

DESIGN CRITERIA:
ZONES: G-1 THROUGH 11-1 (14,455 SF EACH)
OCCUPANCY: LIGHT HAZARD
MAX SPRINKLER COVERAGE: 400 SF/HZ
DESIGN DENSITY: 0.10 GPM/SF

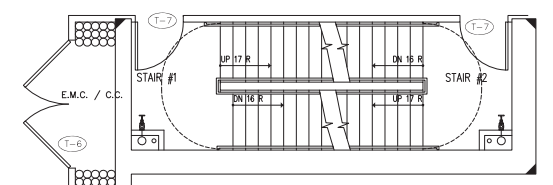
NOTES:
1) RESIDENTIAL AREAS WITH CEILING SHALL BE PROVIDED WITH EXTENDED COVERAGE CONCEALED SPRINKLER HEADS
2) RESIDENTIAL AREAS WITHOUT CEILING SHALL BE PROVIDED WITH EXTENDED COVERAGE SIDEWALL SPRINKLER HEADS
3) FSP RISERS IN STAIR #1 AND STAIR #2 SHALL BE LOCATED IN SEPARATE FIRE-RATED ENCLOSURE WITHIN STAIR

SPRINKLER BRANCH PIPING SIZING

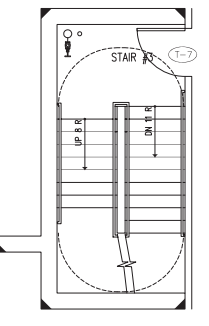
PIPE SIZE	MAX # SPRINKLER HEAD ALLOWED
1"	2
1 1/4"	3
1 1/2"	5
2"	10



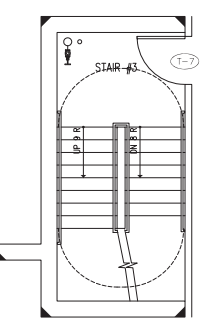
2 PART PLAN OF STAIRS #1 & #2 @ 6TH FLOOR



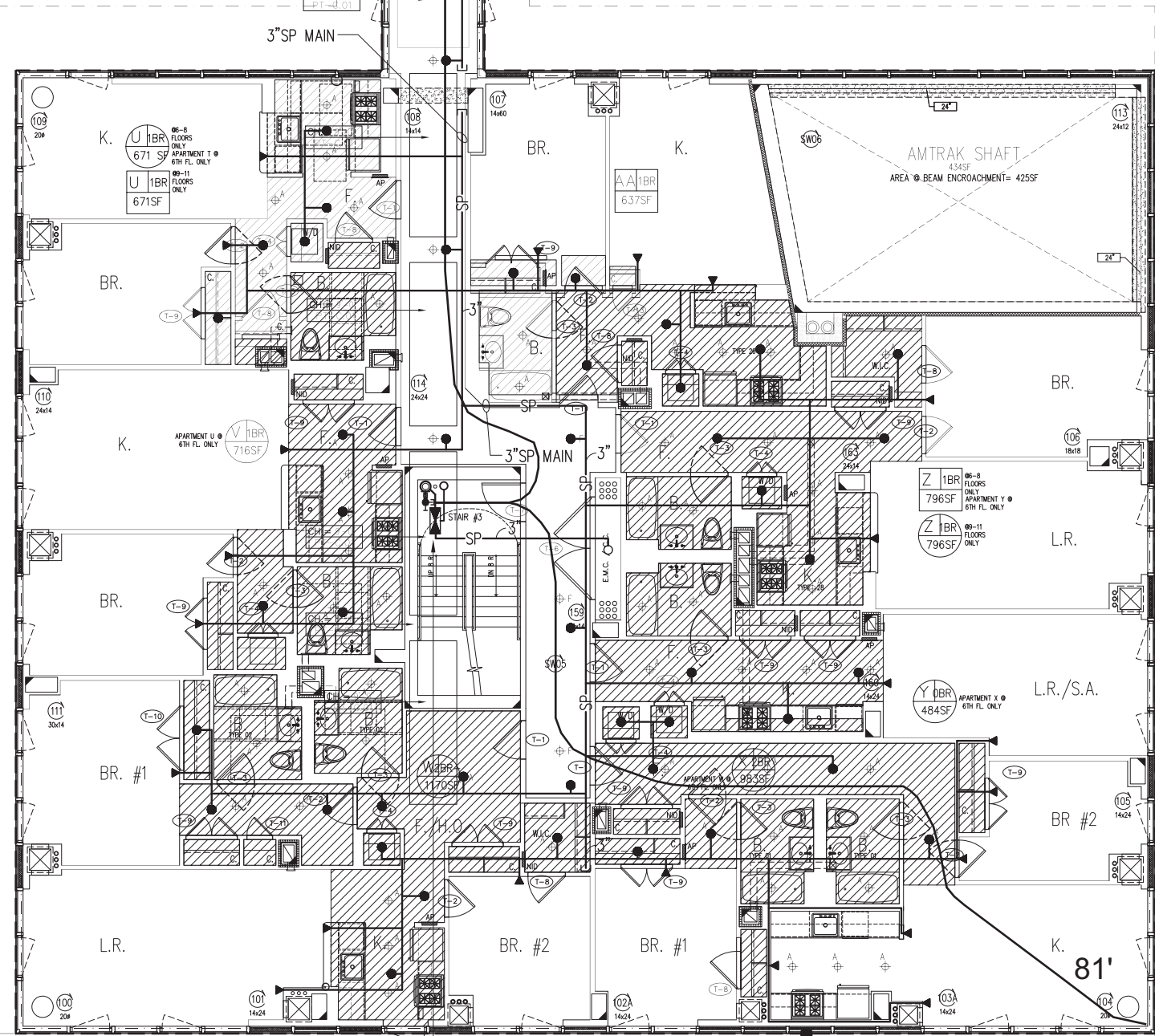
3 PART PLAN OF STAIRS #1 & #2 @ 11TH FLOOR



4 PART PLAN OF STAIRS #3 @ 6TH FLOOR



5 PART PLAN OF STAIRS #3 @ 11TH FLOOR



DESIGN CRITERIA:
ZONES: G-2 THROUGH 11-2 (5,000 SF EACH)
OCCUPANCY: LIGHT HAZARD
MAX SPRINKLER COVERAGE: 320 SF/HZ
DESIGN DENSITY: 0.10 GPM/SF

MATCHLINE A-D
MATCHLINE A-D

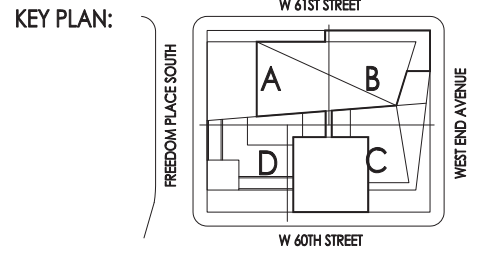
BOUNDARY OF
BUILDING #2
0'-0"

6TH-11TH FLOOR PLAN

MATCHLINE C-D
MATCHLINE C-D

No.	Date	Revisions
7	11/20/2012	PLUMB REVISIONS TO DOB
6	09/28/2012	BAS CO SET
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4	07/02/2012	ISSUED TO DOB
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2	09/15/2011	SBS CONSTRUCTION DOCUMENT
1	07/15/2011	DESIGN DEVELOPMENT

NORTH ARROW
Scale: 0 SC-05 SC1 SC1.5 SCX15 SCX25



PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

DRAWING TITLE:
**FIRE PROTECTION
11th FLOOR PLAN**

SEAL & SIGNATURE:
DATE: JULY 15, 2011
PROJECT NO.:
DRAWN BY: IC
CHECKED BY: LB
DRAWING NO.:
FP-111.00
CADD FILE NO.:
N/A

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RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

423 WEST 47TH STREET
NEW YORK, NY 10036
T: 212.218.4233
F: 212.249.2893

ARCHITECT OF RECORD:
SLCE Architects
841 BROADWAY
NEW YORK, NY 10003
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F: 212.579.8387

STRUCTURAL ENGINEER:
WSP CANTOR SEINUK
228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T: 212.687.8888
F: 212.687.5501

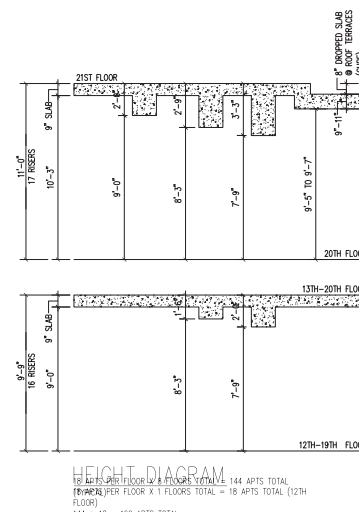
MECHANICAL ENGINEER:
WSP FLACK+KURTZ
512 SEVENTH AVENUE
NEW YORK, NY 10017
T: 212.532.9600

DESIGN CRITERIA:
ZONES: 12 THROUGH 20 (14,318 SF EACH)
OCCUPANCY: LIGHT HAZARD
MAX SPRINKLER COVERAGE: 400 SF/HZ
DESIGN DENSITY: 0.10 GPM/SF

NOTES:
1) RESIDENTIAL AREAS WITH CEILING SHALL BE PROVIDED WITH EXTENDED COVERAGE CONCEALED SPRINKLER HEADS
2) RESIDENTIAL AREAS WITHOUT CEILING SHALL BE PROVIDED WITH EXTENDED COVERAGE SIDEWALL SPRINKLER HEADS
3) FSP RISERS IN STAIR #1 AND STAIR #2 SHALL BE LOCATED IN SEPARATE FIRE-RATED ENCLOSURE WITHIN STAIR

SPRINKLER BRANCH PIPING SIZING

PIPE SIZE	MAX # SPRINKLER HEAD ALLOWED
1"	2
1 1/4"	3
1 1/2"	5
2"	10



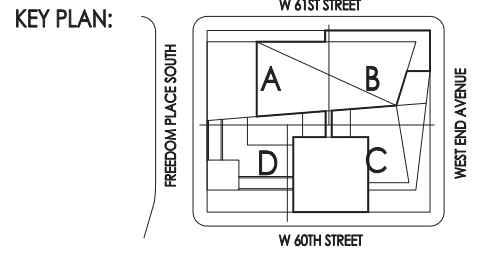
BOUNDARY OF
BUILDING #2
0'-0"

12TH-20TH FLOOR PLAN
SCALE: 1/8"=1'-0"

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3	12/08/2011	BAS CONSTRUCTION DOCUMENT
2	09/15/2011	SBS CONSTRUCTION DOCUMENT
1	07/15/2011	DESIGN DEVELOPMENT

Scale: 0 5' 10' 15' 20' 25' 30' 35' 40' 45' 50' 55' 60' 65' 70' 75' 80' 85' 90' 95' 100'



PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

DRAWING TITLE:
**FIRE PROTECTION
12th-19th FLOOR PLANS**

SEAL & SIGNATURE:
PROJECT NO. 12152717
DRAWN BY: IC
CHECKED BY: LB
DRAWING NO. FP-112.00

DATE: JULY 15, 2011
CADD FILE NO. 12152717

RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

423 WEST 47TH STREET
NEW YORK, NY 10036
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F: 212.249.2893

ARCHITECT OF RECORD:
SLCE Architects
841 BROADWAY
NEW YORK, NY 10003
T: 212.579.8400
F: 212.579.8387

STRUCTURAL ENGINEER:
WSP CANTOR SEINUK
228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T: 212.687.8888
F: 212.487.5501

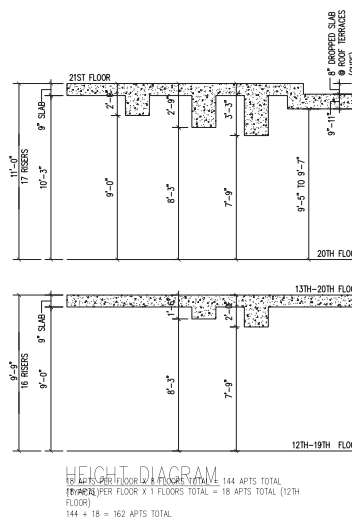
MECHANICAL ENGINEER:
WSP FLACK+KURTZ
512 SEVENTH AVENUE
NEW YORK, NY 10017
T: 212.532.9600

DESIGN CRITERIA:
ZONES: 12 THROUGH 20 (14,318 SF EACH)
OCCUPANCY: LIGHT HAZARD
MAX SPRINKLER COVERAGE: 400 SF/HZ
DESIGN DENSITY: 0.10 GPM/SF

NOTES:
1) RESIDENTIAL AREAS WITH CEILING SHALL BE PROVIDED WITH EXTENDED COVERAGE CONCEALED SPRINKLER HEADS
2) RESIDENTIAL AREAS WITHOUT CEILING SHALL BE PROVIDED WITH EXTENDED COVERAGE SIDEWALL SPRINKLER HEADS
3) FSP RISERS IN STAIR #1 AND STAIR #2 SHALL BE LOCATED IN SEPARATE FIRE-RATED ENCLOSURE WITHIN STAIR

SPRINKLER BRANCH PIPING SIZING

PIPE SIZE	MAX # SPRINKLER HEAD ALLOWED
1"	2
1 1/4"	3
1 1/2"	5
2"	10



BOUNDARY OF
BUILDING #2
0'-0"

12TH-20TH FLOOR PLAN
SCALE: 1/8"=1'-0"

THESE PLANS ARE APPROVED ONLY FOR THE 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.

SEAL & SIGNATURE:
PROJECT NO.
DRAWN BY: IC
CHECKED BY: LB
DRAWING NO.
FP-120.00
CADD FILE NO.
N/A

DATE: JULY 15, 2011
PROJECT NO.
DRAWN BY: IC
CHECKED BY: LB
DRAWING NO.
FP-120.00
CADD FILE NO.
N/A

RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:

EXTELL DEVELOPMENT

425 WEST 47TH STREET
NEW YORK, NY 10047
T: 212.218.4233
F: 212.249.2893

ARCHITECT OF RECORD:

SLCE Architects

841 BROADWAY
NEW YORK, NY 10003
T: 212.579.8400
F: 212.579.8387

STRUCTURAL ENGINEER:

WSP CANTOR SEINUK

228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T: 212.487.8888
F: 212.487.5501

MECHANICAL ENGINEER:

WSP FLACK+KURTZ

512 SEVENTH AVENUE
NEW YORK, NY 10017
T: 212.532.9600

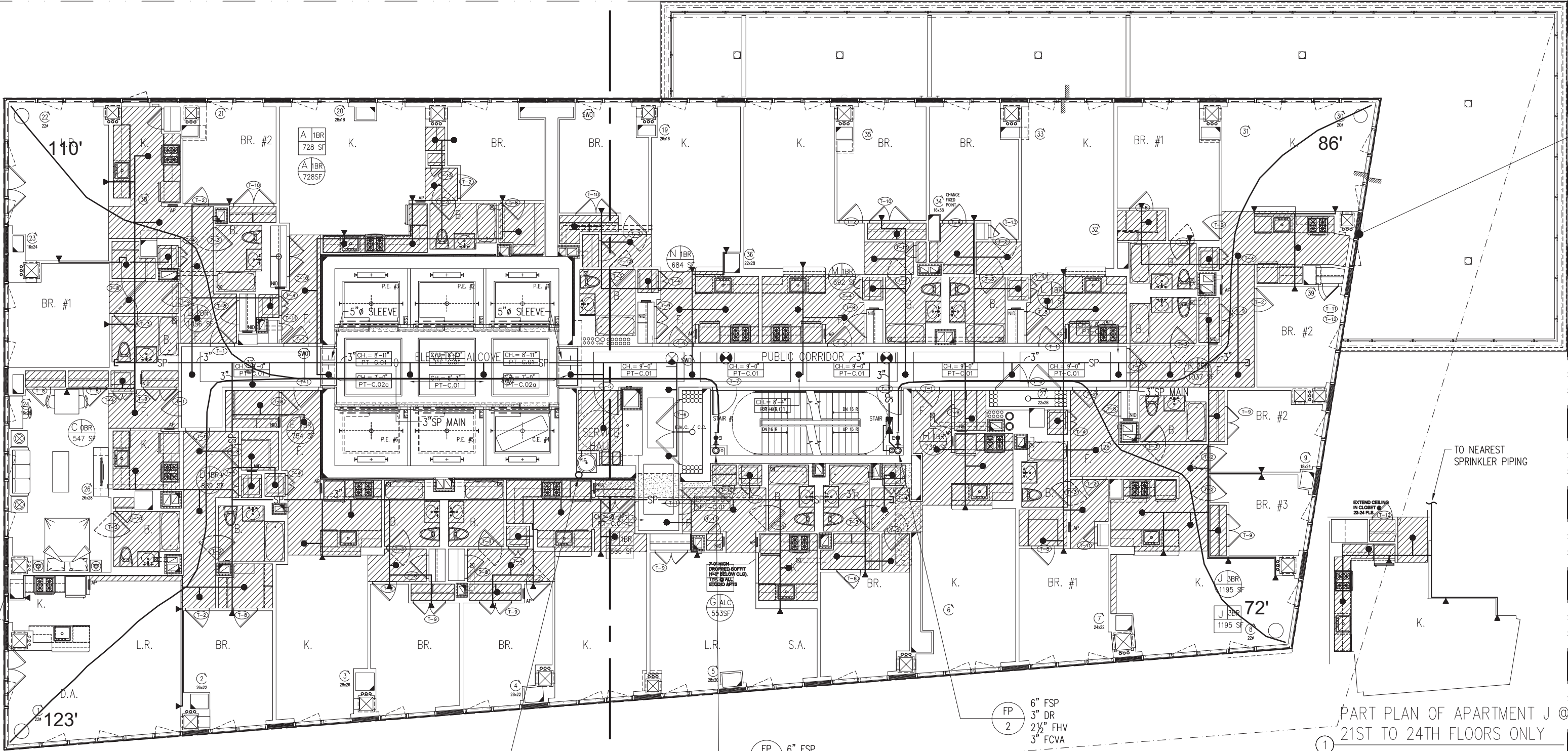
DESIGN CRITERIA:
ZONES: 21 THROUGH 31 (12,174 SF EACH)
OCCUPANCY: LIGHT HAZARD
WAX SPRINKLER COVERAGE: 400 SF/HZ
DESIGN DENSITY: 0.10 GPM/SF

- NOTES:
- 1) RESIDENTIAL AREAS WITH CEILING SHALL BE PROVIDED WITH EXTENDED COVERAGE CONCEALED SPRINKLER HEADS
 - 2) RESIDENTIAL AREAS WITHOUT CEILING SHALL BE PROVIDED WITH EXTENDED COVERAGE SIDEWALL SPRINKLER HEADS
 - 3) FSP RISERS IN STAIR #1 AND STAIR #2 SHALL BE LOCATED IN SEPARATE FIRE-RATED ENCLOSURE WITHIN STAIR

SPRINKLER BRANCH PIPING SIZING

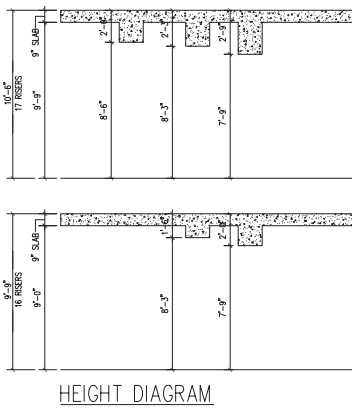
PIPE SIZE	MAX # SPRINKLER HEAD ALLOWED
1"	2
1 1/4"	3
1 1/2"	5
2"	10

PART PLAN OF APARTMENT B @
21ST FLOOR ONLY



PART PLAN OF STAIRS #1 & #2
@ 21ST FLOOR

PART PLAN OF STAIRS #1 & #2
@ 31ST FLOOR



BOUNDARY OF
BUILDING #2
0'-0"

21ST - 31ST FLOOR PLAN
SCALE: 1/8"=1'-0"

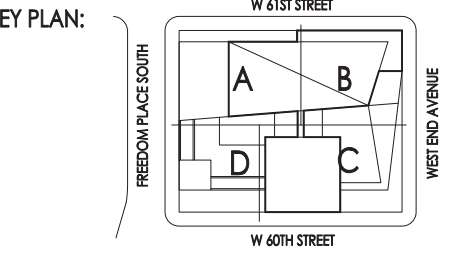
- 7 11/20/2012 PLING RESUBMISSION TO DOB
6 09/28/2012 BMS CO SET
5 08/22/2012 PROGRESS SET
4 07/02/2012 ISSUED TO DOB
3 12/08/2011 BMS CONSTRUCTION DOCUMENT
2 09/15/2011 BMS CONSTRUCTION DOCUMENT
1 07/15/2011 DESIGN DEVELOPMENT

No: Date: Revision:

NORTH ARROW

Scale:

0 SC-05 SC1 SC1.5 SCX1.5 SCX2.5



PROJECT:
RIVERSIDE CENTER
BUILDING 2

DRAWING TITLE:
FIRE PROTECTION
21st-30th FLOOR PLANS

SEAL & SIGNATURE:

DATE: JULY 15, 2011

PROJECT NO:

DRAWN BY: IC

CHECKED BY: LB

DRAWING NO:

FP-121.00

CADD FILE NO:

WSP

THESE PLANS ARE APPROVED ONLY FOR THE 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.

RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

423 WEST 47TH STREET
NEW YORK, NY 10047
T: 212.718.4233
F: 212.749.2893

ARCHITECT OF RECORD:
SLCE Architects
841 BROADWAY
NEW YORK, NY 10003
T: 212.579.8400
F: 212.579.8387

STRUCTURAL ENGINEER:
WSP CANTOR SEINUK
228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T: 212.687.8888
F: 212.687.5501

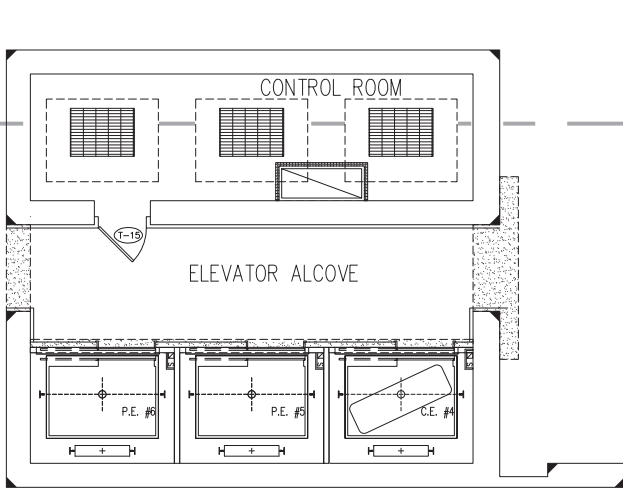
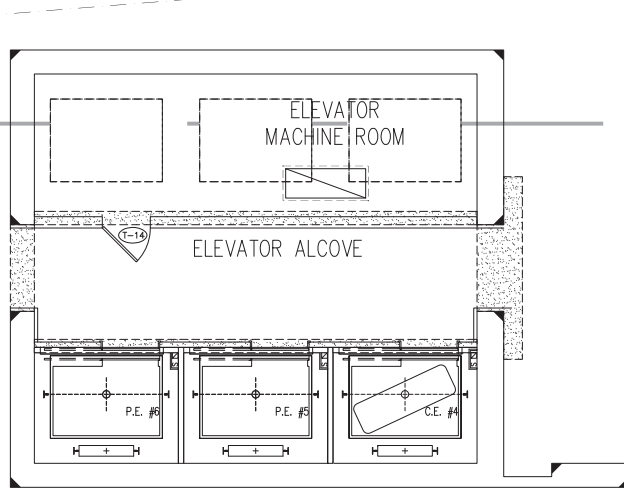
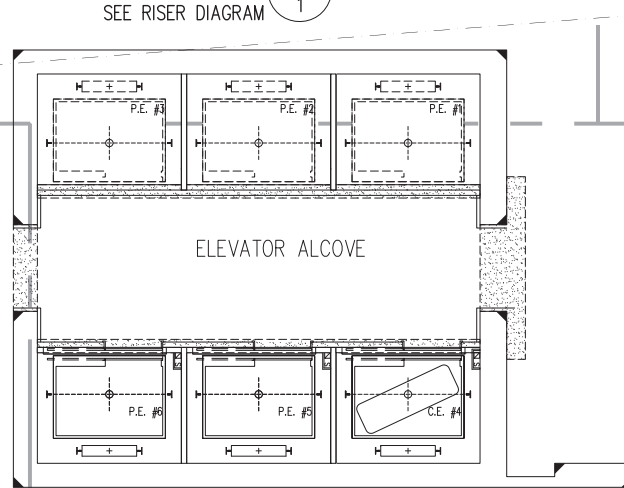
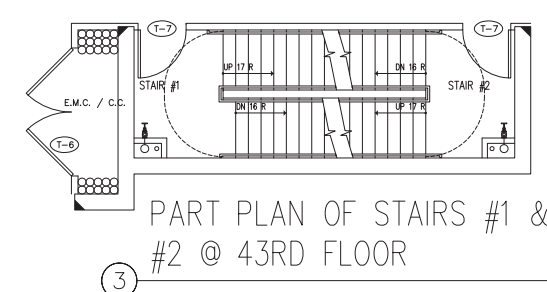
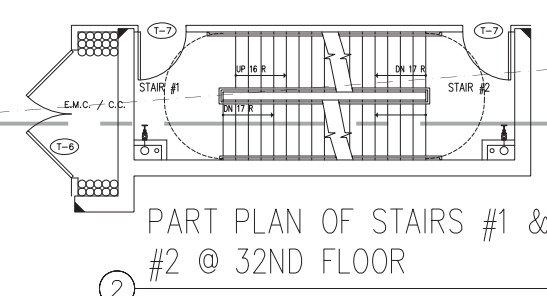
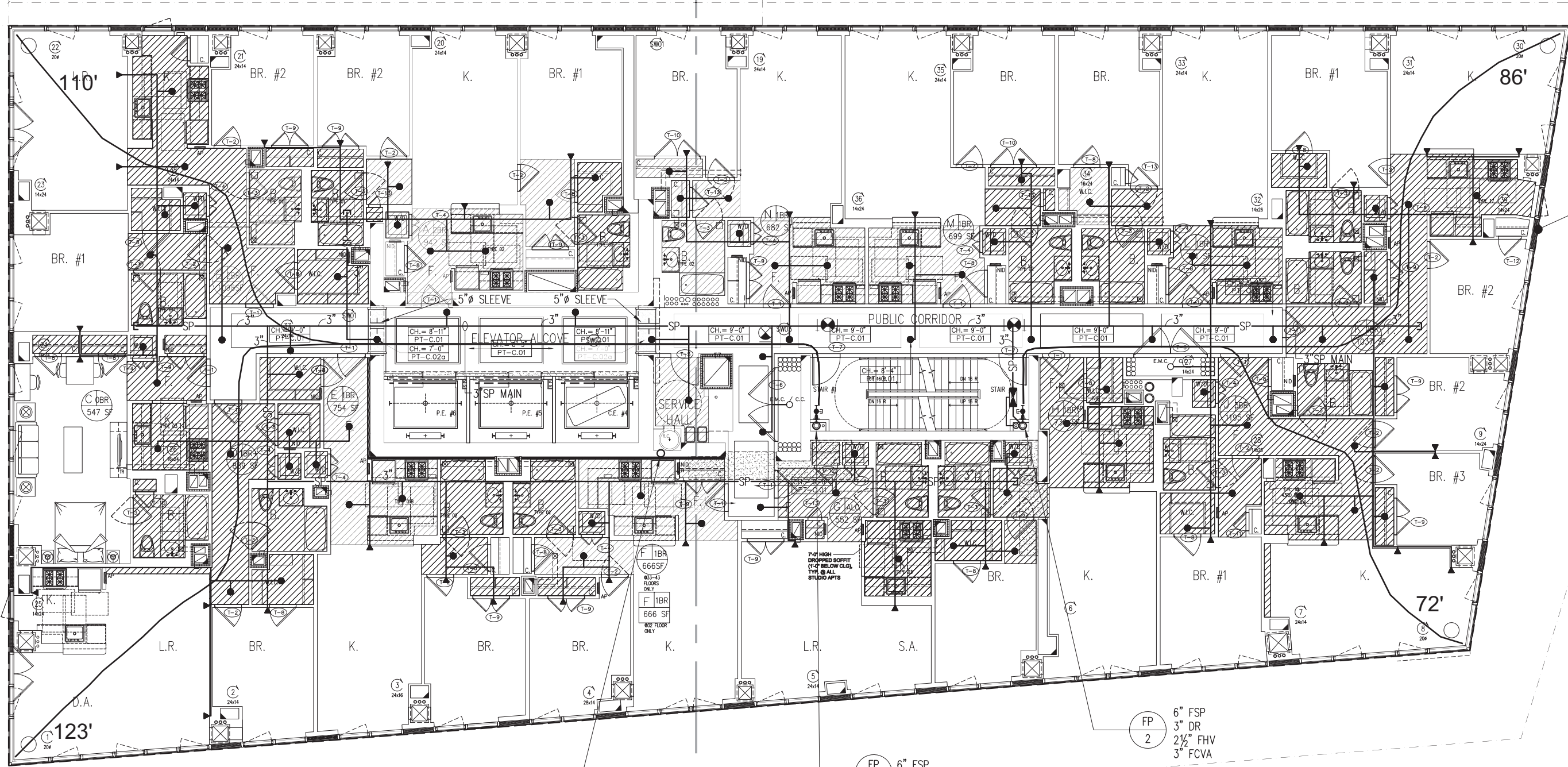
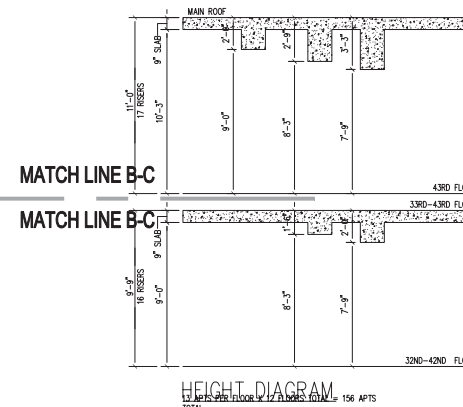
MECHANICAL ENGINEER:
WSP FLACK+KURTZ
512 SEVENTH AVENUE
NEW YORK, NY 10017
T: 212.532.9600

DESIGN CRITERIA:
ZONES: FL 32 THROUGH 43 (12,174 SF EACH)
OCCUPANCY: LIGHT HAZARD
MAX SPRINKLER COVERAGE: 400 SF/HD
DESIGN DENSITY: 0.10 GPM/SF

- NOTES:
- 1) RESIDENTIAL AREAS WITH CEILING SHALL BE PROVIDED WITH EXTENDED COVERAGE CONCEALED SPRINKLER HEADS
 - 2) RESIDENTIAL AREAS WITHOUT CEILING SHALL BE PROVIDED WITH EXTENDED COVERAGE SIDEWALL SPRINKLER HEADS
 - 3) FSP RISERS IN STAIR #1 AND STAIR #2 SHALL BE LOCATED IN SEPARATE FIRE-RATED ENCLOSURE WITHIN STAIR

SPRINKLER BRANCH PIPING SIZING

PIPE SIZE	MAX # SPRINKLER HEAD ALLOWED
1"	2
1 1/4"	3
1 1/2"	5
2"	10



MATCH LINE A-D
MATCH LINE A-D

BOUNDARY OF BUILDING #2
0'-0"

32ND - 43RD FLOOR PLAN
SCALE: 1/8"=1'-0"

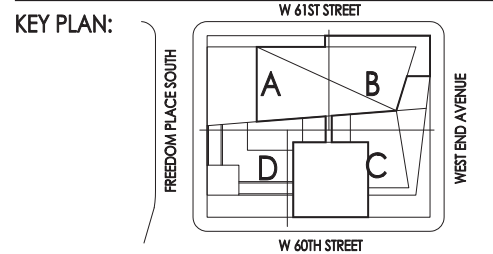
MATCH LINE C-D
MATCH LINE C-D

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No.	Date	Revisions
7	11/20/2012	PLUMB REVISIONS TO DOB
6	09/28/2012	BAS CO SET
5	08/22/2012	PROCESS SET
4	07/02/2012	ISSUED TO DOB
3	12/08/2011	BAS CONSTRUCTION DOCUMENT
2	09/19/2011	SBS CONSTRUCTION DOCUMENT
1	07/16/2011	DESIGN DEVELOPMENT

NORTH ARROW
Scale:
0 SC-05 SC1 SCX15 SCX25



PROJECT:
RIVERSIDE CENTER
BUILDING 2

DRAWING TITLE:
FIRE PROTECTION
32nd-42nd FLOOR PLANS

SEAL & SIGNATURE:
DATE: JULY 15, 2011
PROJECT NO.:
DRAWN BY: IC
CHECKED BY: LB
DRAWING NO.: FP-132.00
CADD FILE NO.:
IN-32

RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

423 WEST 47TH STREET
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T: 212.218.4233
F: 212.249.2893

ARCHITECT OF RECORD:
SLCE Architects
841 BROADWAY
NEW YORK, NY 10003
T: 212.579.8400
F: 212.579.8387

STRUCTURAL ENGINEER:
WSP CANTOR SEINUK
228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T: 212.687.8888
F: 212.487.5501

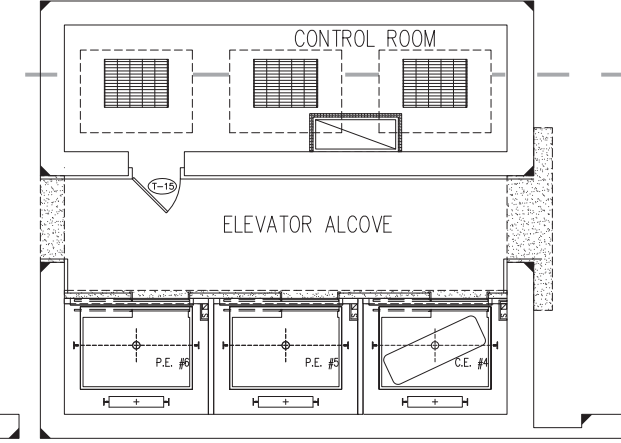
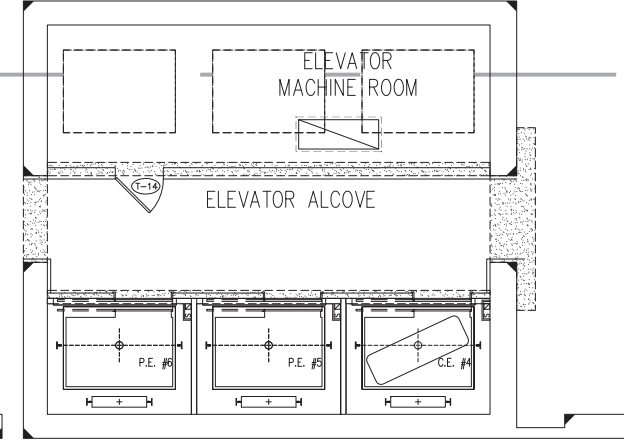
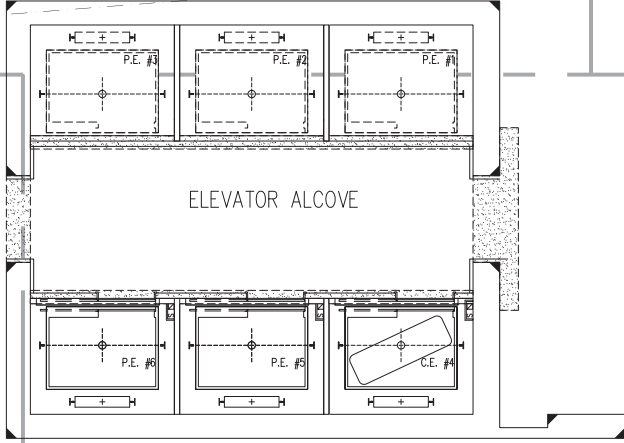
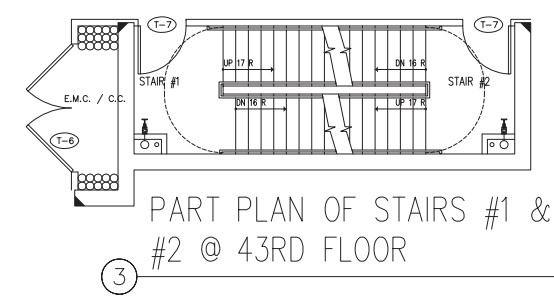
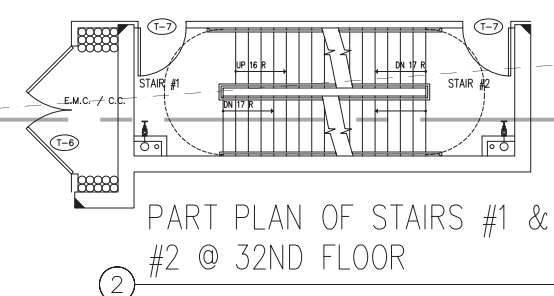
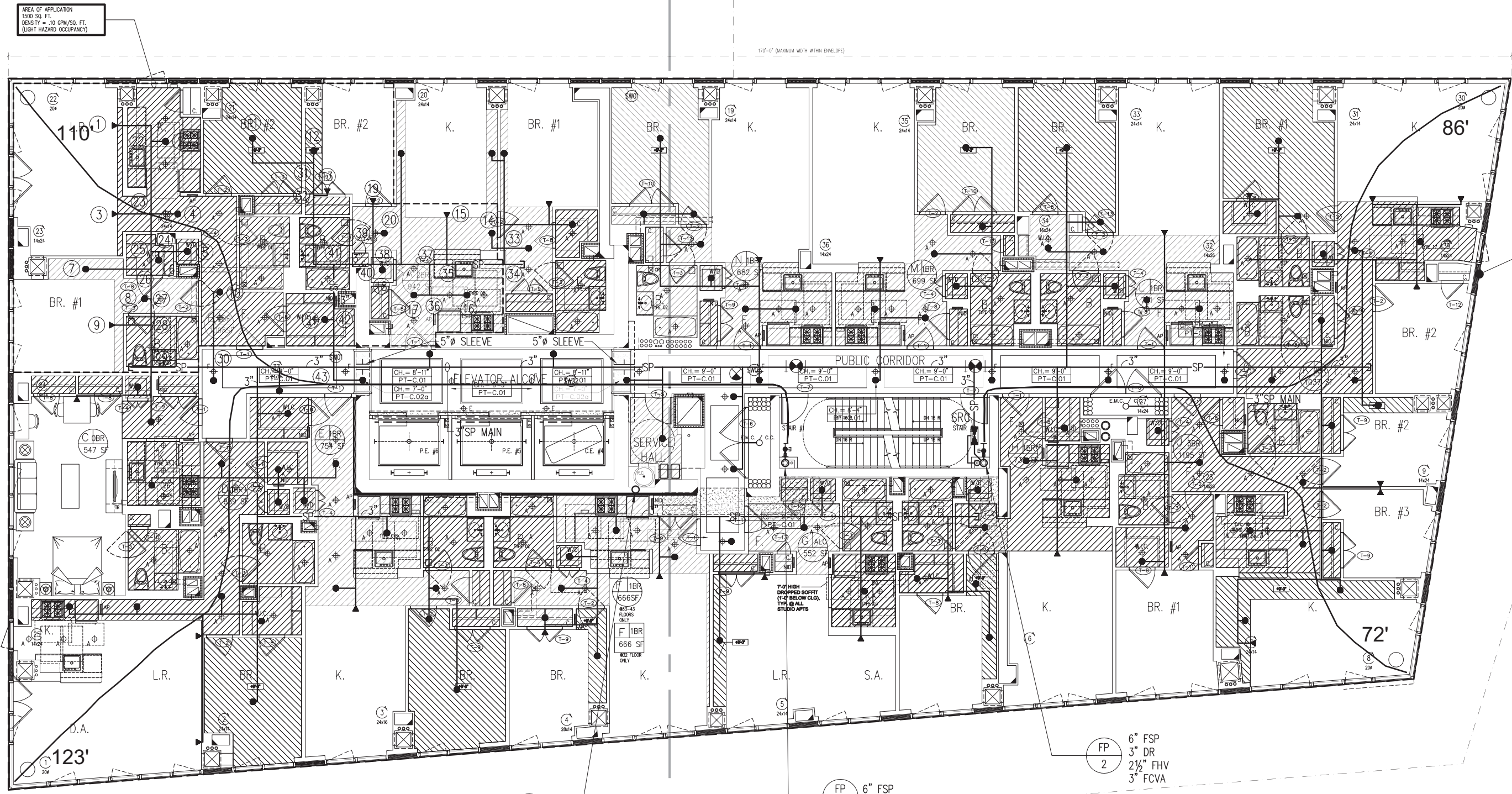
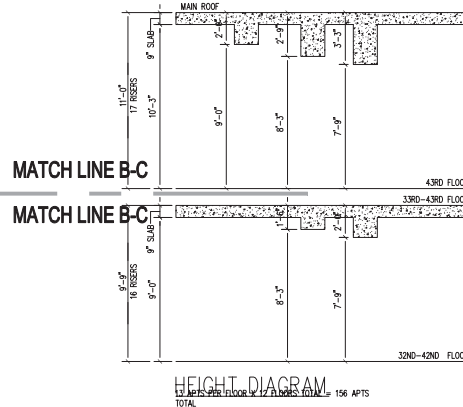
MECHANICAL ENGINEER:
WSP FLACK+KURTZ
512 SEVENTH AVENUE
NEW YORK, NY 10017
T: 212.532.9600

DESIGN CRITERIA:
ZONES: FL 32 THROUGH 43 (12,174 SF EACH)
OCCUPANCY: LIGHT HAZARD
MAX SPRINKLER COVERAGE: 400 SF/HD
DESIGN DENSITY: 0.10 GPM/SF

- NOTES:
- 1) RESIDENTIAL AREAS WITH CEILING SHALL BE PROVIDED WITH EXTENDED COVERAGE CONCEALED SPRINKLER HEADS
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SPRINKLER BRANCH PIPING SIZING

PIPE SIZE	MAX # SPRINKLER HEAD ALLOWED
1"	2
1 1/4"	3
1 1/2"	5
2"	10



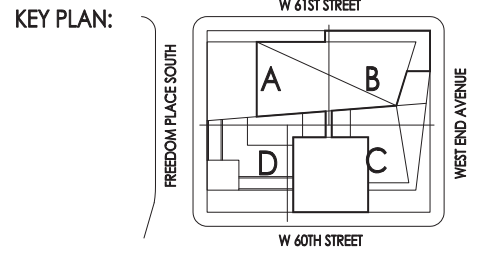
BOUNDARY OF BUILDING #2
0'-0"

32ND - 43RD FLOOR PLAN
SCALE: 1/8"=1'-0"

THESE PLANS ARE APPROVED ONLY FOR THE 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.

No.	Date	Revisions
7	11/20/2012	PLUMB REVISIONS TO DOB
6	09/28/2012	BAS CO SET
5	08/22/2012	PROCESS SET
4	07/02/2012	ISSUED TO DOB
3	12/08/2011	BAS CONSTRUCTION DOCUMENT
2	09/19/2011	SBS CONSTRUCTION DOCUMENT
1	07/18/2011	DESIGN DEVELOPMENT

NORTH ARROW
Scale:
0 SC-05 SC1 SC1.5 SCX1.5 SCX2.5



PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

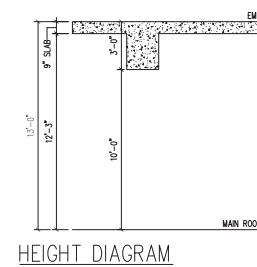
DRAWING TITLE:
**FIRE PROTECTION
43rd FLOOR PLAN**

SEAL & SIGNATURE:
PROJECT NO.
DRAWN BY: IC
CHECKED BY: LB
DRAWING NO.
FP-143.00
CADD FILE NO.
N/A

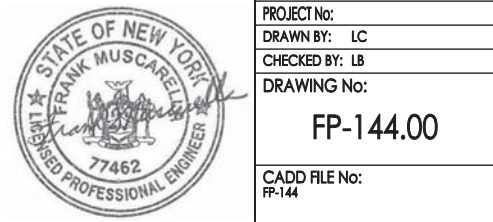
DATE: JULY 15, 2011
PROJECT NO.
DRAWN BY: IC
CHECKED BY: LB
DRAWING NO.
FP-143.00
CADD FILE NO.
N/A



SPRINKLER BRANCH PIPING SIZING	
PIPE SIZE	MAX # SPRINKLER HEADS ALLOWED
1"	2
1 1/4"	3
1 1/2"	5
2"	10



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RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

425 WEST 47TH STREET
NEW YORK, NY 10047
T: 846.218.4233
F: 212.749.2893

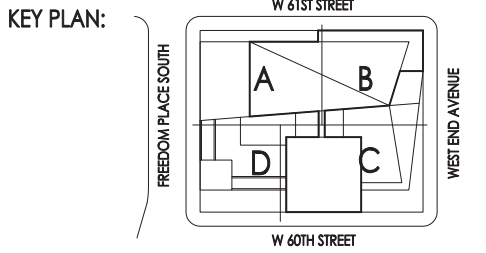
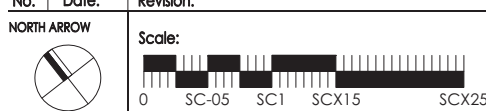
ARCHITECT OF RECORD:
SLCE Architects
841 BROADWAY
NEW YORK, NY 10003
T: 212.579.8400
F: 212.579.8387

STRUCTURAL ENGINEER:
WSP CANTOR SEINUK
228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T: 212.687.8888
F: 246.487.5501

MECHANICAL ENGINEER:
WSP FLACK+KURTZ
512 SEVENTH AVENUE
NEW YORK, NY 10017
T: 212.532.9600



No.	Date	Revisions
7	11/02/2012	PLNG RESUBMISSION TO DOB
6	09/28/2012	BAS CO SET
5	08/22/2012	PROCESS SET
4	01/02/2012	ISSUED TO DOB
3	12/08/2011	BAS CONSTRUCTION DOCUMENT
2	01/19/2011	SBS CONSTRUCTION DOCUMENT
1	07/16/2011	DESIGN DEVELOPMENT



PROJECT:
**RIVERSIDE CENTER
BUILDING 2**

DRAWING TITLE:
**FIRE PROTECTION
RISER DIAGRAM SHEET 2**

SEAL & SIGNATURE:

DATE: JULY 15, 2011

PROJECT NO:

DRAWN BY:

CHECKED BY:

DRAWING NO:

FP-501.00

CADD FILE NO:

INR

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CONTINUATION P-500.00

RIVERSIDE CENTER
BUILDING TWO

NEW YORK, NY

OWNER/DEVELOPER:
EXTELL DEVELOPMENT

423 WEST 47TH STREET
NEW YORK, NY 10049
T: 462.218.4233
F: 212.249.2893

ARCHITECT OF RECORD:
SLCE Architects

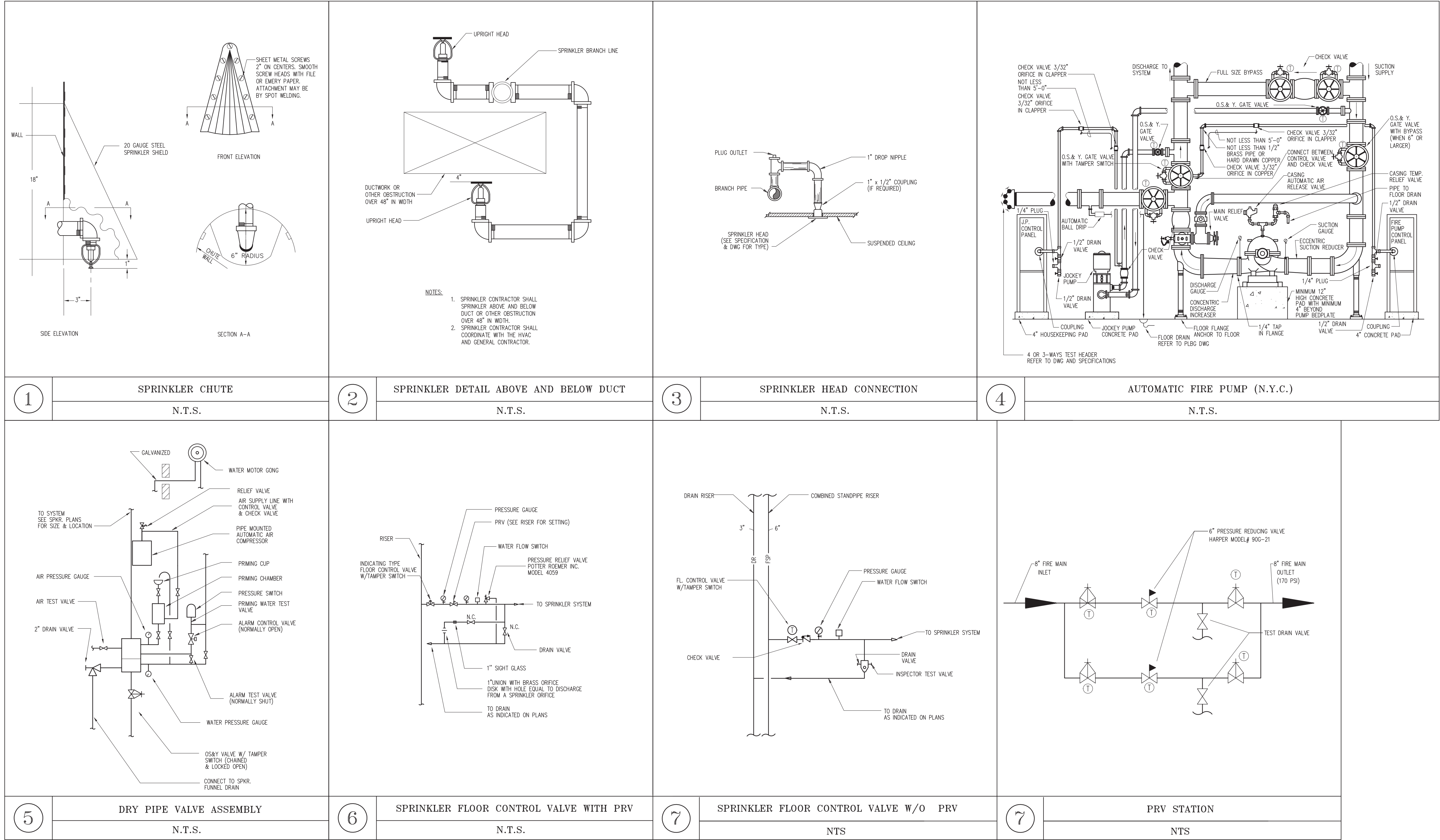
841 BROADWAY
NEW YORK, NY 10003
T: 212.579.8400
F: 212.579.8387

STRUCTURAL ENGINEER:

WSP CANTOR SEINUK
228 EAST 45TH STREET, 3RD FLOOR
NEW YORK, NY 10017
T: 212.487.8888
F: 212.487.5501

MECHANICAL ENGINEER:

WSP FLACK+KURTZ
512 SEVENTH AVENUE
NEW YORK, NY 10017
T: 212.532.9600



PUMP SCHEDULE																										
DESIGNATION	NO. REQUIRED	SERVICE	LOCATION	FLOW RATE (GPM)	TOTAL HEAD (PSI)	RATED PRESSURE (100% FLOW)	PRESSURE @ 150% FLOW	MANUFACTURER MODEL NUMBER	STAGES	VERTICAL SUCTION	HORIZONTAL SUCTION	END SUCTION	IN LINE	VERTICAL DISCHARGE	SUBMERSIBLE	MOTOR				MANUAL CONTROL	AUTOMATIC CONTROL	PILOT LIGHT	PRESSURE GAUGE REQUIRED	EMERGENCY POWER REQUIRED	REMARKS	DRAWING NO.
																MAXIMUM H.P.	R.P.M.	VOLTS	PHASE							
FP-1	1	AUTOMATIC FIRE PUMP	CELLAR	1,000	126.9	115	74.75	PEERLESS MODEL 34EF11G			X					100	3550	208	3	60					LOW ZONE	FP-100
JP-1	1	JOCKEY PUMP	CELLAR	10	147	120	-	GRONDIS MODEL CR3-11								2	3500	208	3	60					LOW ZONE	FP-100
FP-2	1	AUTOMATIC FIRE PUMP	CELLAR	750	270.6	245	159.25	PEERLESS MODEL 4AEF12			X					200	3550	208	3	60					HIGH ZONE (REDUNDANT)	FP-100
FP-3	1	AUTOMATIC FIRE PUMP	ROOF	750	82.8	70	45.5	PEERLESS MODEL 34EF8			X					40	3550	480	3	60					HIGH ZONE	FP-144
JP-3	1	JOCKEY PUMP	ROOF	10	91	75	-	GRONDIS MODEL CRT-9								1	3500	480	3	60					HIGH ZONE	FP-144

SPRINKLER HEAD SCHEDULE – NYC-2008 CODE																							
RESPONSE	COVERAGE	TYPE	K FACTOR	MANUFACTURER & MODEL #			TEMPERATURE(°F)			HAZARD FOR USE			MAX. COVERAGE DIMENSION	SYMBOL							UL LISTING CATEGORY	REMARK (AREA APPLIED)	
				WING	TYCO	RELIABLE	ORDINARY (135-170)	INTERMEDIATE (175-225)	HIGH (250-300)	LIGHT	ORDINARY	EXTRA		○	⊙	●	▲	◆	△				
QUICK RESPONSE	STANDARD	UPRIGHT	5.6	MICROFAST	TY-FRB	F1FR	●				●	●	N/A	15FT X 15FT	⊗							UNIV	ORD HAZ SMALL ROOMS, DEEP STRUCTURED AREA, GARAGE SPACE
		UPRIGHT	5.6	MICROFAST	TY-FRB	F1FR	●		●	●	●	●	N/A	15FT X 15FT		⊗						UNIV	HEATED DUCTS, BOILER, STEAM ROOM
		CONCEALED(FLAT)	5.6	MIRAGE	RF II	N/A	●			●	●	N/A	15FT X 15FT								UNIV	LOBBY, RESIDENTIAL TENANTS, SMALL OFFICE & ROOMS	
	EXTENDED	SIDEWALL(SEM. REC.)	8.0	MICROFAST	N/A	F1FR	●				●	N/A	N/A	16FT X 24FT								UNIV	RESIDENTIAL TENANT SPACE
		CONCEALED(FLAT)	5.8	1K474	N/A	N/A	●				●	N/A	N/A	20FT X 20FT								UNIV	RESIDENTIAL TENANT SPACE
		SIDEWALL(SEM. REC.)	8.0	N/A	N/A	DH80	●				●	N/A	N/A	28FT X 14FT								UNIV	TENANT SPACE

*CONCEALED FLUSHED PLATES' COLOR SHALL BE MATCH WITH CEILING OR ANY SOFFIT

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7 11/20/2012 PLING REBIBASMISSION TO DOB
6 09/28/2012 BMS CO SET
5 08/22/2012 PROGRESS SET
4 01/02/2012 ISSUED TO DOB
3 12/08/2011 BMS CONSTRUCTION DOCUMENT
2 09/15/2011 BMS CONSTRUCTION DOCUMENT
1 07/15/2011 DESIGN DEVELOPMENT

North Arrow
Scale: 0 SC-05 SC-1 SC-X15 SC-X25

KEY PLAN:
W 47th STREET
W 48th STREET
WEST END AVENUE
FREEBORN PLACE SOUTH

PROJECT:
RIVERSIDE CENTER
BUILDING 2

DRAWING TITLE:
FIRE PROTECTION
DETAILS AND SCHEDULES

SEAL & SIGNATURE:
DATE: JULY 15, 2011
PROJECT NO.:
DRAWN BY:
CHECKED BY:
DRAWING NO.: FP-600.00
CADD FILE NO.:
P&ID: