8 West 70th

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Geotechnical Engineer
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47 Wilkens Drive
Dumont, NJ 07628
212.374.1794
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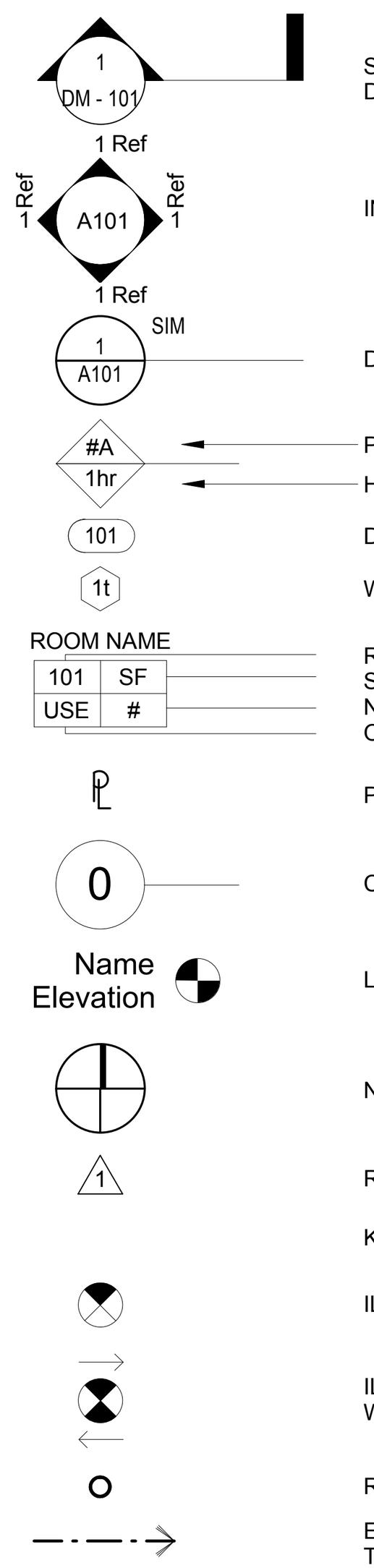
Lighting Design
HLW
115 Fifth Avenue, 5th Floor
New York, NY 10003
212.353.4600
212.353.4666 fax

Acoustics
Longman Lindsey
410 Broadway, Suite 508
New York, NY 10018
212.315.6400

Elevator Consultant
Iros Elevator Design Services
884Patterson Avenue,
East Rutherford, NJ 12553
973.773.4404

Code Consultant
Design 1237
52 Diamond Street
Brooklyn, NY 11222
718.383.9340
718.383.8510 fax

KEY TO SYMBOLS



- SECTION OR SECTION DETAIL REFERENCE
- INTERIOR ELEVATIONS
- DETAIL REFERENCE
- PARTITION TYPE
- HOURLY RATING
- DOOR NUMBER
- WINDOW NUMBER
- ROOM NUMBER
- SQUARE FEET
- NO. OF PERSONS
- OCCUPANCY GROUP
- PROPERTY LINE
- COLUMN NUMBER
- LEVEL INDICATION
- NORTH ARROW
- REVISION NUMBER
- KEYNOTE
- ILLUMINATED EXIT SIGN
- ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROW
- REMOTE LOCATION
- EXIT ACCESS TRAVEL DISTANCE

FILED UNDER SEPARATE APP.

1. SPRINKLER -
2. FIRE ALARM -
3. FIRE PROTECTION PLAN
4. PUBLIC ASSEMBLY
5. BUILDERS PAVEMENT PLAN -
6. SITE SAFETY PLAN

ABBREVIATIONS

AFF ABOVE FINISHED FLOOR
ALT. ALTERNATE
ALUM. ALUMINUM
AHU AIR HANDLING UNIT
ASPH. ASPHALT

BD BOARD
BLKG BLOCKING
BLDG BUILDING
BM BEAM

C.I.P CAST IN PLACE
CJ CONTROL JOINT
CLG CEILING
CMU CONCRETE MASONRY UNIT
COL. COLUMN
CONC. CONCRETE
CONTR. CONTRACTOR
CW CURTAIN WALL

DF DRINKING FOUNTAIN
DIA. DIAMETER
DIM. DIMENSION
DR DOOR
DWG DRAWING

EA EACH
EL. ELEVATION
ELEC. ELECTRICAL
EXIST. EXISTING
EXT. EXTERIOR

FD FLOOR DRAIN
FIN. FINISH
FLR FLOOR
FP FIREPROOF(ING)
FT FEET

GA GAUGE
GL GLASS, GLAZING
GYP. GYPSUM
GWB GYPSUM WALL BOARD

HDWR HARDWARE
HM HOLLOW METAL
HOR. HORIZONTAL
HT HEIGHT
HVAC HEATING, VENTILATION & AIR CONDITIONING

I.D. INSIDE DIAMETER
IN. INCHES
INSUL. INSULATION
INT. INTERIOR

JT JOINT

LAV. LAVATORY
LBS POUNDS

MAX. MAXIMUM
MECH MECHANICAL
MEMB. MEMBRANE
MFR MANUFACTURER
MIN. MINIMUM
MO MASONRY OPENING
MR MOISTURE RESISTANT
MTL METAL

NIC NOT IN CONTRACT
NTS NOT TO SCALE

O.C. ON CENTER
O.D. OUTSIDE DIAMETER
OPP. OPPOSITE
PTD PAINTED
PT PRESSURE TREATED

RADIUS
RAD. RADIATOR
RD ROOF DRAIN
REINF. REINFORCED (REINFORCING)
RO ROUGH OPENING

SHT SHEET
SIM. SIMILAR
SS STAINLESS STEEL
STL STEEL
STR STRUCTURE (STRUCTURAL)

TOS TOP OF SLAB
TYP. TYPICAL

UON UNLESS OTHERWISE NOTED

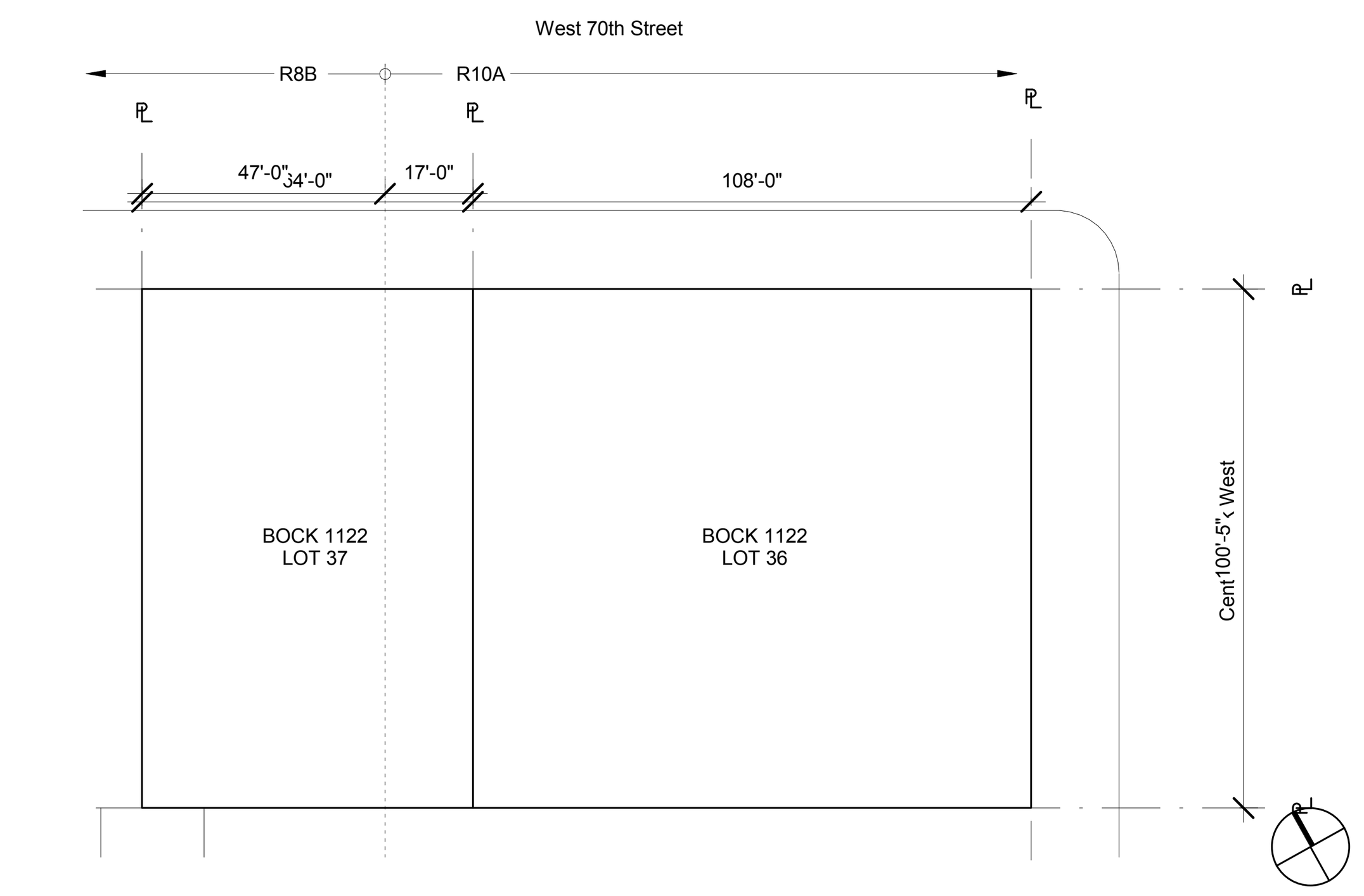
VAR. VARIES
VERT. VERTICAL
VIF VERIFY IN FIELD

W/ WITH
WC WATER CLOSET
WD WOOD
WIN. WINDOW
WO WITHOUT
WP WATERPROOFING
WR WATER RESISTANT

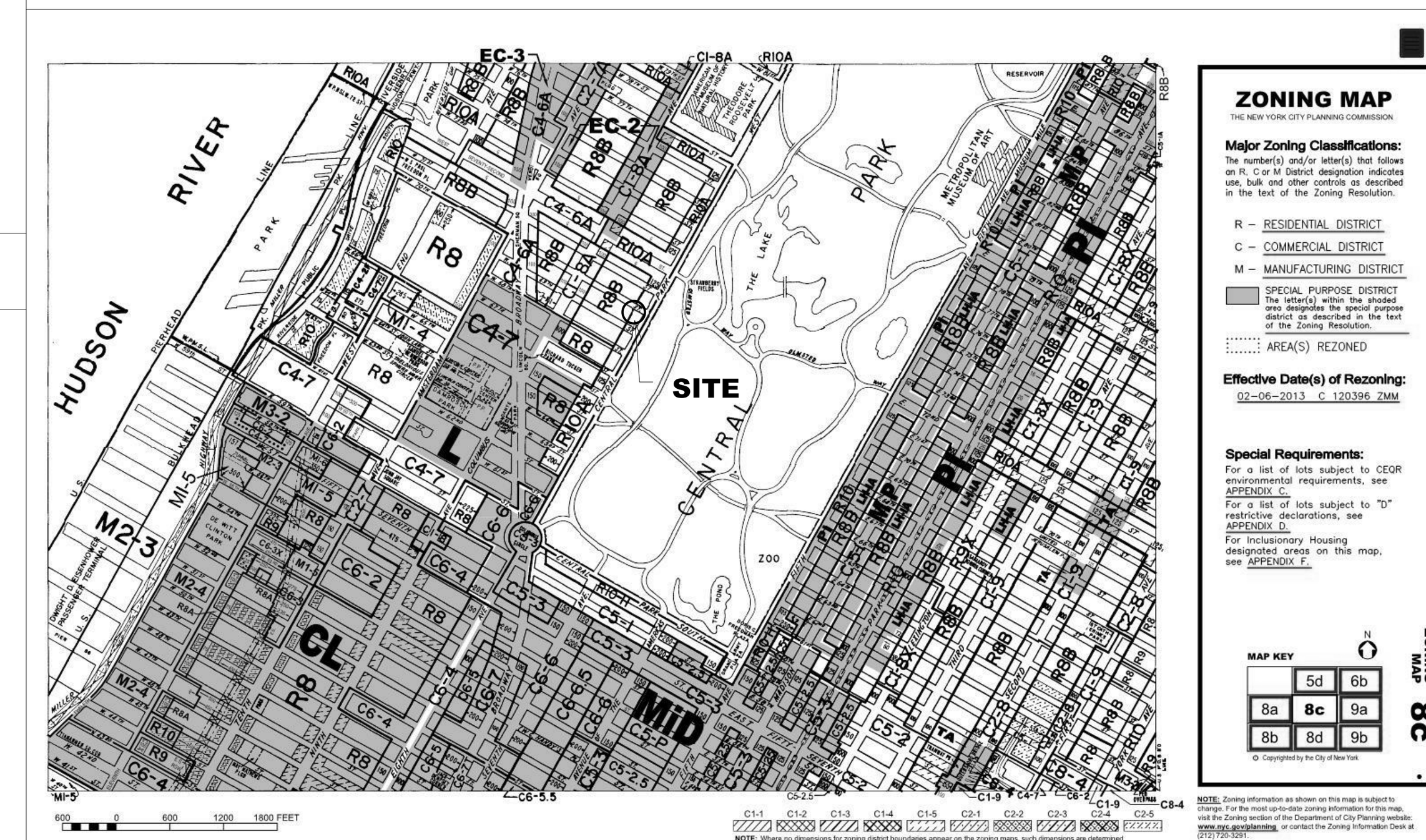
BUILDING CLASSIFICATION

ADDRESS:	8 WEST 70TH STREET
BLOCK:	1122
LOT:	37 (ZONING LOT COMBINED WITH LOT 36)
ZONING:	R8B/R10A
ZONING MAP:	8C
HISTORIC DISTRICT:	UPPER WEST SIDE / CENTRAL PARK WEST
COMMUNITY BOARD:	7
FLOOD ZONE:	NO
FIRE DISTRICT:	MANHATTAN
LPC C of A NUMBER:	07-6281
BSA ACTION NUMBER:	74-07-BZ
CONSTRUCTION CLASS:	1B NON-COMBUSTIBLE
SPRINLERED?:	YES
STRUCT. OCC. CATEGORY:	CATEGORY III
BUILDING HEIGHT:	105'-10"
MULTIPLE DWELLING?:	YES
OCC. GROUPS PROVIDED:	A-2, B, E, F-2, R-2 (R-2 DOMINANT)
LOWEST FDNY ACCESS:	AT GRADE- EL 0.00'
HIGHEST FDNY ACCESS:	AT TOP OF BUILDING- EL. 105'-10"

PLOT PLAN



ZONING MAP



FLOOD MAP



APPLICANT HAS BEEN ADVISED BY DOB AND ACKNOWLEDGES THAT THEPREMISES IS NOW IN AN X ZONE PER FEMA FLOOD ADVISORY MAPS RELEASED IN 2013

SPECIAL INSPECTIONS

FIRE ALARM TEST
PHOTLUMINESCENT EXIT PATH MARKINGS
EMERGENCY POWER SYSTEMS
STRUCTURAL STEEL -WELDING
STRUCTURAL STEEL - ERECTION & BOLTING
CONCRETE - CAST-IN-PLACE
MASONRY
SOILS - SITE PREPARATION
SOILS - FILL PLACEMENT & IN-PLACE DENSITY
SOILS - INVESTIGATIONS (BORINGS/TEST PITS)
UNDERPINNING
WALL PANELS, CURTAIN WALLS & VENEERS
SPRAYED FIRE-RESISTANT MATERIALS
SMOKE CONTROL SYSTEMS
MECHANICAL SYSTEMS
FUEL OIL STORAGE & FUEL-OIL PIPING SYSTEMS
STRUCTURAL SAFETY - STRUCTURAL STABILITY
EXCAVATION - SHEETING, SHORING, AND BRACING
SPRINKLER SYSTEMS
STANDPIPE SYSTEMS
HEATING SYSTEMS
FIRESTOP, DRAFTSTOP, AND FIREBACK SYSTEMS
CONCRETE TEST CYLINDERS
CONCRETE DESIGN MIX

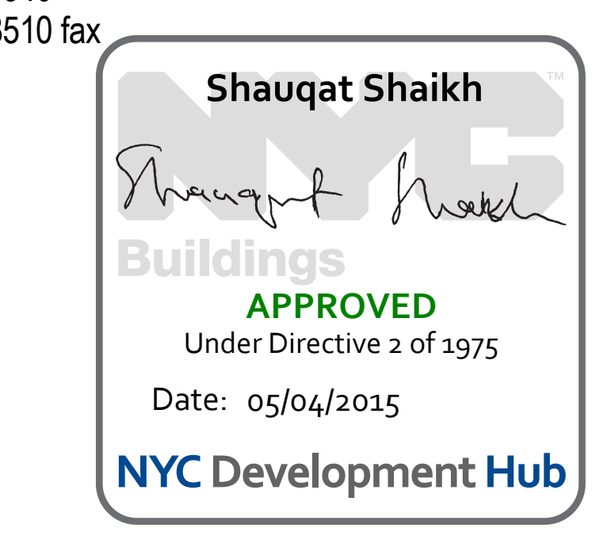
PROGRESS INSPECTIONS

PRELIMINARY
FOOTING & FOUNDATION
FIRE RESISTANCE RATED CONSTRUCTION
PUBLIC ASSEMBLY EMERGENCY LIGHTING
FINAL

ENERGY CODE COMPLIANCE INSPECTIONS:
PROTECTION OF FOUNDATION INSULATION
INSULATION PLACEMENT & R-VALUES
FENESTRATION THERMAL VALUES & RATINGS
FENESTRATION RATINGS FOR AIR LEAKAGE
FENESTRATION AREAS
AIR SEALING & INSULATION- VISUAL
VESTIBULES
DAMPERS INTEGRAL TO BUILDING ENVELOPE
HVAC & SERVICE WATER HEATING EQUIPMENT
HVAC & SERVICE WATER HEATING SYSTEM CONTROLS
DUCT PLENUM & PIPING INSULATION & SEALING
ELECTRICAL METERING
LIGHTING IN DWELLING UNITS
INTERIOR LIGHING POWER
LIGHTING CONTROLS
EXIT SIGNS
ELECTRICAL MOTORS
MAINTENANCE INFORMATION
PERMANENT CERTIFICATE

DRAWING INDEX

ARCHITECTURAL DRAWINGS		FIRST	REVISION
T.000 .00	ZONING & EGRESS COVER SHEET	05.10.13	
Z.001 .00	SITE PLAN, ZONING CALCULATIONS & AVE. CURB LEVEL	05.10.13	
Z.002 .00	STREET WALL SECTIONS & LOT COVERAGE CALCULATIONS	05.10.13	
Z.003 .00	SITE SURVEY	05.10.13	
Z.004 .00	AREA CALCULATIONS CELLAR & SUBCELLAR FLOORS	05.10.13	
Z.005 .00	AREA CALCULATIONS 1ST - 4TH FLOORS	05.10.13	
Z.006 .00	AREA CALCULATIONS 5TH - PENTHOUSE FLOORS	05.10.13	
A.001 .00	BUILDING CODE COMPLIANCE	05.10.13	
A.003 .00	GENERAL NOTES & MATERIALS LEGEND	03.03.14	
A.011 .00	PARTITION TYPES	03.03.14	
A.012 .00	CEILING AND SOFFIT DETAILS	03.03.14	
A.013 .00	EXTERIOR WALL TYPES	03.03.14	
A.099 .00	SUBCELLAR BANQUET ROOM ZONING & EGRESS PLAN	05.10.13	
A.100 .00	CELLAR ZONING & EGRESS PLAN	05.10.13	
A.101 .00	GROUND FLOOR ZONING & EGRESS PLAN	05.10.13	
A.102 .00	SECOND FLOOR ZONING & EGRESS PLAN	05.10.13	
A.103 .00	THIRD FLOOR ZONING & EGRESS PLAN	05.10.13	
A.104 .00	FOURTH FLOOR ZONING & EGRESS PLAN	05.10.13	
A.105 .00	FIFTH FLOOR ZONING & EGRESS PLAN	05.10.13	
A.106 .00	SIXTH FLOOR ZONING & EGRESS PLAN	05.10.13	
A.107 .00	SEVENTH FLOOR ZONING & EGRESS PLAN	05.10.13	
A.108 .00	EIGHTH FLOOR ZONING & EGRESS PLAN	05.10.13	
A.109 .00	NINTH FLOOR ZONING & EGRESS PLAN	05.10.13	
A.110 .00	TENTH FLOOR ZONING AND RGRESS PLAN	05.10.13	
A.119 .00	LOWER LEVEL 2 RCP	03.03.14	
A.120 .00	LOWER LEVEL 1 RCP	03.03.14	
A.121 .00	LEVEL 1 RCP	03.03.14	
A.122 .00	LEVEL 2 RCP	03.03.14	
A.123 .00	LEVEL 3 RCP	03.03.14	
A.124 .00	LEVEL 4 RCP	03.03.14	
A.125 .00	LEVEL 5 RCP	03.03.14	
A.126 .00	LEVEL 6 RCP	03.03.14	
A.127 .00	LEVEL 7 RCP	03.03.14	
A.128 .00	LEVEL 8 RCP	03.03.14	
A.129 .00	LEVEL 10 RCP (PENTHOUSE)	03.03.14	
A.130 .00	LEVEL 11 RCP (BULKHEAD)	03.03.14	
A.201 .00	BUILDING ELEVATIONS - NORTH & EAST	03.03.14	
A.202 .00	BUILDING ELEVATIONS - SOUTH & WEST	03.03.14	
A.203 .00	BUILDING ELEVATIONS - PENTHOUSE & BULKHEAD	03.03.14	
A.204 .00	AXONOMETRIC VIEWS	03.03.14	
A.310 .00	BUILDING SECTIONS	03.03.14	
A.311 .00	BUILDING SECTIONS	03.03.14	
A.401 .00	PLAN SECTIONS - NORTH	03.03.14	
A.402 .00	PLAN SECTIONS - NORTH	03.03.14	
A.403 .00	PLAN SECTIONS- NORTH PH	03.03.14	
A.404 .00	PLAN SECTIONS - EAST UPPER FLOORS	03.03.14	
A.405 .00	PLAN SECTIONS - EAST LOWER FLOORS	03.03.14	
A.406 .00	PLAN SECTIONS - SOUTH LOWER FLOORS	03.03.14	
A.407 .00	PLAN SECTIONS - SOUTH UPPER FLOORS	03.03.14	
A.408 .00	PLAN SECTIONS - WEST	03.03.14	
A.409 .00	ENLARGED SKYLIGHT PLAN	03.03.14	
A.410 .00	WALL SECTIONS - NORTH - FOUNDATION & BASE @ RESIDENTIAL ENTRY	03.03.14	
A.411 .00	WALL SECTIONS - NORTH - BASE @ MAIN ENTRANCE	03.03.14	
A.412 .00	WALL SECTIONS - NORTH - PARAPET	03.03.14	
A.413 .00	WALL SECTIONS - EAST - BASE & FOUNDATION	03.03.14	
A.414 .00	WALL SECTIONS - EAST - PARAPET	03.03.14	
A.415 .00	WALL SECTIONS - SOUTH - FOUNDATIONS	03.03.14	
A.416 .00	WALL SECTIONS - SOUTH - BASE & REARYARD PARAPET PARAPET	03.03.14	
A.417 .00	WALL SECTIONS - SOUTH - PARAPET & TERRACE	03.03.14	
A.418 .00	WALL SECTIONS - WEST - FOUNDATION, BASE & REARYARD PARAPET	03.03.14	
A.419 .00	WALL SECTIONS - WEST - PARAPET & TERRACE	03.03.14	
A.420 .00	WALL SECTIONS - WEST - PARAPET	03.03.14	
A.421 .00	WALL SECTIONS - PENTHOUSE & BULKHEAD	03.03.14	
A.432 .00	EAST CURTAIN WALL ELEVATIONS	03.03.14	
A.434 .00	MAIN ENTRANCE & LOBBY STOREFRONT	03.03.14	
A.503 .00	TYPICAL NORTH JAMB DETAILS	03.03.14	
A.504 .00	NE CORNER DETAILS	03.03.14	
A.505 .00	EAST CURTAINWALL PLAN DETAILS	03.03.14	
A.555 .00	NORTH FACADE SPANDRELS	03.03.14	
A.558 .00	EAST CURTAIN WALL DETAILS	03.03.14	
A.570 .00	ROOFING DETAILS	03.03.14	
A.600 .00	STAIRS - AXONOMETRIC DIAGRAMS	03.03.14	
A.601 .00	STAIRS 1 & 2 - ENLARGED PLANS - LEVELS 1-5	03.03.14	
A.602 .00	STAIRS 1 & 2 - SECTIONS - LEVELS 1-5	03.03.14	
A.603 .00	STAIRS 1 & 2 - ENLARGED PLANS - LEVELS 6-10	03.03.14	
A.604 .00	STAIRS 1 & 2 - SECTIONS - LEVELS 6-10	03.03.14	
A.605 .00	STAIR 3, 6 & ELEV 1 ENLARGED PLANS & SECTIONS	03.03.14	
A.606 .00	STAIR 4 - ENLARGED PLANS & SECTIONS	03.03.14	
A.607 .00	STAIR 5 - ENLARGED PLANS AND SECTIONS -	03.03.14	
EN.101 .00	COMCHECK- ENVELOPE	03.03.14	
EN.102 .00	COMCHECK- LIGHTING	03.03.14	



Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
05.10.13		DOB Zoning & Egress

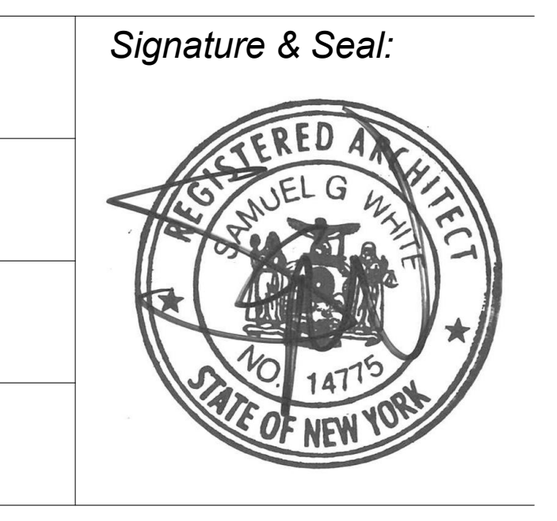
Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
ZONING & EGRESS COVER SHEET

Project Number: 12639
Drawn By: CR
Checked By: SJD
Scale: As indicated

Signature & Seal:



Sheet Number: T.000.00

NYC DOB Number: 121328919
Sheet: 1 of 81

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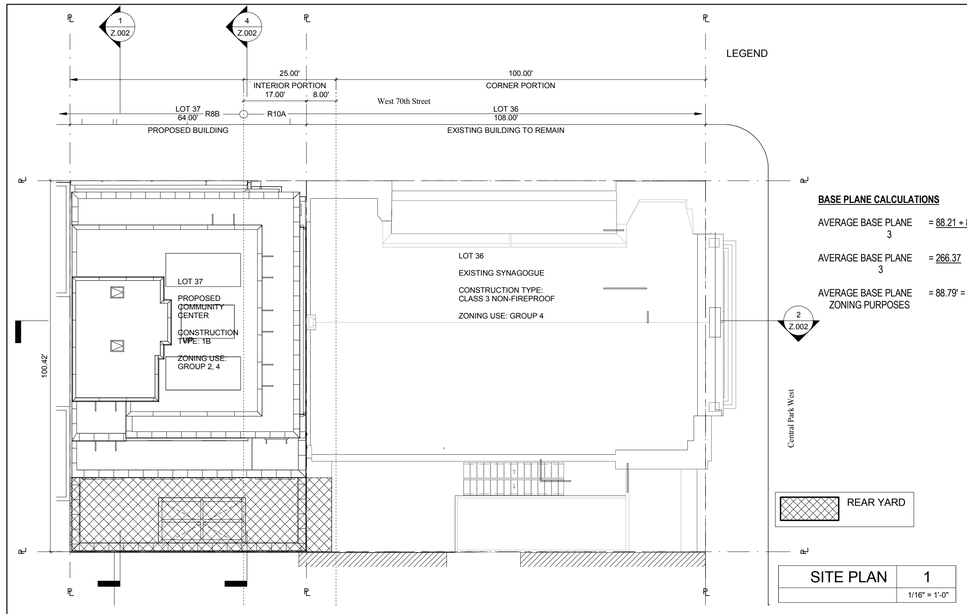
DEPT OF BLDGS 121328919 Job Number
ES7081717W5 Scan Code



SITE PLAN 1
1/16" = 1'-0"

BASE PLANE CALCULATIONS

AVERAGE BASE PLANE = 88.21 + 88.83 + 89.33
3

AVERAGE BASE PLANE = 266.37
3

AVERAGE BASE PLANE = 88.79' = 0.00' FOR
ZONING PURPOSES

ZR ZONING CALCULATIONS FOR SINGLE ZONING LOT
SECTION (LOTS 36 & 37)

MAP 8C 1. ZONING DISTRICTS:
R8B
R10A

2. LOT AREA:

	6-10 W.70TH	99-100 CPW	TOTAL
R8B	4,723.5 SF	0 SF	4,723.5 SF
R10A	1,708.5 SF	10,854.0 SF	12,562.5 SF
TOTAL	6,432.0 SF	10,854.0 SF	17,286.0 SF

22-00 3. USES PERMITTED:
R8B: USE GROUPS 1-4 RESIDENTIAL & COMMUNITY FACILITY
R10AUSE GROUPS 1-4 RESIDENTIAL & COMMUNITY FACILITY

4. USES PROPOSED:
R8B USE GROUP 4: COMMUNITY FACILITY
-HOUSES OF WORSHIP, RECTORIES, PARISH HOUSES
USE GROUP 2: RESIDENTIAL

R10A USE GROUP 4: COMMUNITY FACILITY
-HOUSES OF WORSHIP, RECTORIES, PARISH HOUSES
USE GROUP 2: RESIDENTIAL

24-011 5. QUALITY HOUSING REGULATIONS APPLY

23-145 6. MAXIMUM RESIDENTIAL FLOOR AREA RATIO:
R8B 4.00
R10A 10.00

24-11 7. MAXIMUM COMMUNITY FACILITY FLOOR AREA RATIO:
R8B 4.00
R10A 10.00

77-228 8. PERCENTAGE BREAKDOWN BY DISTRICT IN DIVIDED ZONING LOT:
R8B 27.3%
R10A 72.7%

9. FLOOR AREA RATIO CALCULATIONS FOR DIVIDED ZONING LOTS:
R8B 0.273 x 4.00 = 1.09
R10A 0.727 x 10.00 = 7.27
ADJUSTED MAXIMUM FAR 1.09 + 7.27 = 8.36

A. FLOOR AREA PERMITTED
R8B: 8.36 x 4,723.5 SF = 39,488.46 SF
R10A: 8.36 x 12,562.50 SF = 105,022.50 SF

COMBINED R8B & R10A 8.36 X 17,286 sf = 144,510.96 SF

B. FLOOR AREA PROPOSED
R8B PORTION RESIDENTIAL = 17,646.49 SF
R8B PORTION COMMUNITY FACILITY = 13,642.95 SF
R8B TOTAL = 31,289.44 SF

R10A PORTION RESIDENTIAL = 4,636.07SF
R10A PORTION COMMUNITY FACILITY = 5,769.37 SF
R10A PORTION EXISTING COMM. FACILITY = 27,739.81 SF
R10A TOTAL = 38,145.25 SF

COMBINED R8B & R10A = 69,434.69 SF

24-11 10. MAXIMUM LOT COVERAGE PERMITTED:
77-24 INTERIOR PORTION 0.70
CORNER PORTION 1.00

1.2 | 11. LOT COVERAGE PROPOSED:
INTERIOR PORTION 0.80 SEE-Z-02

DOES NOT COMPLY.
PERMITTED UNDER BSA ACTION 74-07-BZ
-SEE TABLE TO RIGHT-

CORNER PORTION 0.89 COMPLIES SEE Z-02
(EXISTING)

24-12 12. APPLICATION OF LOT COVERAGE:
APPLIED OVR 23.00' ABOVE BASE PLANE

24-34 13. FRONT YARD REQUIREMENTS:
R8B NOT REQUIRED
R10A NOT REQUIRED

R8B NOT PROPOSED
R10A NOT PROPOSED

24-35 14. SIDE YARD REQUIREMENTS:
R8B NOT REQUIRED
R10A NOT REQUIRED

R8B NOT PROPOSED
R10A NOT PROPOSED

24-36 15. REAR YARD REQUIRED:
24-391 R8B 30' REQUIRED

R10A INTERIOR PORTION- 30' REQUIRED

R10A CORNER PORTION- NOT REQUIRED

3 | 16. REAR YARD PROPOSED:
R8B INTERIOR PORTION- 20.00' SEE Z-02

DOES NOT COMPLY.
PERMITTED UNDER BSA ACTION 74-07-BZ
-SEE TABLE TO RIGHT-

4 | R10A INTERIOR PORTION- 20.00' SEE Z-02

DOES NOT COMPLY.
PERMITTED UNDER BSA ACTION 74-07-BZ
-SEE TABLE TO RIGHT-

R10A CORNER PORTION- COMPLIES

24-522 17. STREET WALL LOCATION & HEIGHT:
23-633 A. STREET WALL LOCATION
77-28 R8B NO CLOSER TO STREET THAN ADJACENT BUILDING
R10A CORNER LOT- NONE REQ'D FOR EXISTING PORTION AND BEYOND 50.00' OF INTERSECTION

R8B COMPLIES- SEE SITE PLAN Z.001
R10A COMPLIES- SEE SITE PLAN Z.001

B. SETBACK REGULATIONS FOR NARROW STREETS
R8B 15.00' SETBACK ABOVE 60.00'
R10A 15.00' SETBACK ABOVE 125.00'

5 | C. SETBACKS PROPOSED FOR NARROW STREETS:
R8B 12.00' PROVIDED

DOES NOT COMPLY.
PERMITTED UNDER BSA ACTION 74-07-BZ
-SEE TABLE TO RIGHT-

R10A COMPLIES. SEE Z.002

D. BASE HEIGHT REQUIREMENTS:
R8B 55.00' MINIMUM - 60.00' MAXIMUM
R10A 60.00' MINIMUM - 125.00' MAXIMUM

6 | E. BASE HEIGHT PROPOSED:
R8B 94.54', SEE Z.002

DOES NOT COMPLY.
PERMITTED UNDER BSA ACTION 74-07-BZ
-SEE TABLE TO RIGHT-

R10A 94.54', COMPLIES. SEE Z.002

F. MAXIMUM BUILDING HEIGHT PERMITTED:
R8B 75.00'
R10A 185.00'

7 | G. MAXIMUM BUILDING HEIGHT PROVIDED:
R8B 105.71', SEE Z.002

DOES NOT COMPLY.
PERMITTED UNDER BSA ACTION 74-07-BZ
-SEE TABLE TO RIGHT-

R10A 105.71', COMPLIES. SEE Z.002

24-522 H. REAR SETBACK REQUIREMENTS:
23-633 R8B 10.00' SETBACK ABOVE MAX. BASE HEIGHT
R10A 10.00' SETBACK ABOVE MAX. BASE HEIGHT

8 | I. REAR SETBACKS PROPOSED:
R8B PORTION 6.67', SEE Z.002

DOES NOT COMPLY.
PERMITTED UNDER BSA ACTION 74-07-BZ
-SEE TABLE TO RIGHT-

R10A PORTION COMPLIES, SEE Z.002

23-22 18. DENSITY
23-24 A. FACTOR FOR DWELLING UNITS
R8B 680
R10A 790

B. MAXIMUM NUMBER OF DWELLING UNITS PERMITTED
R8B 17,646.95 / 608 = 29 D.U.'S
R10A 4,636.07 / 790 = 5 D.U.'S

TOTAL ALLOWED 34 D.U.'S
TOTAL PROPOSED 4 D.U.'S - COMPLIES

25-80 19. BICYCLE PARKING

A. RESIDENTIAL- NONE PROVIDED

BICYCLE PARKING REQUIREMENT WAIVED FOR BUILDINGS WITH 10 OR FEWER RESIDENCES

4 UNITS < 10 UNITS - COMPLIES

B. COMMUNITY FACILITY- NONE PROVIDED

BICYCLE PARKING REQUIREMENT WAIVED FOR HOUSES OF WORSHIP OR PARISH HOUSES - COMPLIES

28-00 20. QUALITY HOUSING CALCULATIONS

28-11 A. BULK REGULATIONS:
COMPLIES

28-12 B. STREET TREE PLANTING:

REQUIRED: 1 TREE PER 25.00' FEET OF STREET FRONTAGE OF ZONING LOT
272.41' / 25.00' = 11 TREES REQUIRED

PROPOSED: NO TREES PROPOSED.
ON SITE PLANTING NOT FEASIBLE.
EQUIVALENT FUNDS TO BE PROVIDED TO DPR

28-21 C. SIZE OF DWELLING UNITS:

MINIMUM 400 SF REQUIRED
COMPLIES. SEE FLOOR PLANS

28-22 D. WINDOWS:
ALL RESIDENTIAL WINDOWS TO BE DOUBLE GLAZEDCOMPLIES: ALL RESIDENTIAL WINDOWS DOUBLE GLAZED

28-23 E. REFUSE STORAGE & DISPOSAL:
NOT REQUIRED, < 9 DWELLING UNITS
RESIDENTIAL TRASH ROOM PROVIDED AT GROUND FLOOR

28-24 F. LAUNDRY FACILITIES:
NOT REQUIRED, < 9 DWELLING UNITS
NONE PROPOSED

28-25 G. DAYLIGHT IN CORRIDORS:
NOT REQUIRED
NONE PROPOSED

28-30 H. PRECREATION SPACE & PLANTING AREAS:
NOT REQUIRED, < 9 DWELLING UNITS
NONE PROPOSED

28-41 I. DENSITY OF CORRIDOR:
NOT REQUIRED
NONE PROPOSED

28-50 J. PARKING FOR QUALITY HOUSING:
13-12 (UG 2) COMMUNITY DISTRICT 7 ACCESSORY PARKING
13-143 (UG4) PERMITTED FOR 35% OF NUMBER OF DWELLING UNITS

.35 x 4 = 1.4 ACCESSORY PARKING SPACES ALLOWED

NO PARKING PROPOSED

FLOOR AREA SCHEDULE

FLOOR	USE	GROSS FLOOR AREA PROPOSED R8B	GROSS FLOOR AREA PROPOSED R10A	GROSS FA EXISTING R10A	COMM. FAC. GROSS FLOOR AREA	RESIDENTIAL GROSS FLOOR AREA	COMBINED R8B & R10A GROSS FLOOR AREA	ZONING FA
LL2	COMMUNITY FACILITY	4,882.53	1,746.31	1,414.11	8,042.95	0.00	8,042.95	N/A
LL1	COMMUNITY FACILITY	3,455.04	1,510.64	10,595.46	15,561.14	0.00		N/A
	RESIDENTIAL	1,427.48	236.12	0.00		1,663.60	17,224.74	N/A
1	COMMUNITY FACILITY	3,526.56	1,594.89	11,521.83	16,643.28	0.00		
	RESIDENTIAL	972.59	0.00	0.00	0.00	972.59	17,615.87	17,615.87
2	COMMUNITY FACILITY	3,175.71	1,282.60	6,493.83	10,952.14	0.00		
	CF EXTERIOR TERRACE	589.26	326.68		915.94			
	RESIDENTIAL	517.69	0.00	0.00	0.00	517.69	12,385.77	12,385.77
3	COMMUNITY FACILITY	3,175.71	1,282.60	1,151.89	5,610.20	0.00		
	RESIDENTIAL	517.69	0.00	0.00	0.00	517.69	6,127.89	6,127.89
4	COMMUNITY FACILITY	3,175.71	1,282.60	2,004.79	6,463.10	0.00		
	RESIDENTIAL	517.69	0.00	0.00	0.00	517.69	6,980.79	6,980.79
5	COMMUNITY FACILITY	0.00	0.00	6,567.47	6,567.47	0.00		
	RESIDENTIAL	3,240.28	1,102.78	0.00	0.00	4,343.06	10,910.53	10,910.53
6	RESIDENTIAL	3,092.73	1,102.78	0.00	0.00	4,195.51	4,195.51	4,195.51
7	RESIDENTIAL	3,092.73	1,090.34	0.00	0.00	4,183.07	4,183.07	4,183.07
8	RESIDENTIAL	3,092.73	1,090.34	0.00	0.00	4,183.07	4,183.07	4,183.07
9	RESIDENTIAL	2,329.65	249.83	0.00	0.00	2,579.48	2,579.48	2,579.48
10- BULKHEAD	RESIDENTIAL	272.71	0.00	0.00	0.00	272.71	272.71	272.71

TOTAL ZONING FLOOR AREA	R8B COMMUNITY	13,642.95	
TOTAL ZONING FLOOR AREA	R8B RESIDENTIAL	17,646.49	
TOTAL ZONING FLOOR AREA	R8B	31,289.44	

TOTAL ZONING FLOOR AREA	R10A COMMUNITY		5,769.37	
TOTAL ZONING FLOOR AREA	R10 RESIDENTIAL		4,636.07	
TOTAL ZONING FLOOR AREA	R10A EXISTING COMM.			27,739.81
TOTAL ZONING FLOOR AREA	R10A			38,145.25

TOTAL ZONING FLOOR AREA	EXISTING COMMUNITY			27,739.81
TOTAL ZONING FLOOR AREA	PROPOSED COMMUNITY	13,642.95	5,769.37	19,412.32
TOTAL ZONING FLOOR AREA	COMMUNITY			47,152.13

TOTAL ZONING FLOOR AREA	EXISTING RESIDENTIAL			0.00
TOTAL ZONING FLOOR AREA	PROPOSED RESIDENTIAL	17,646.49	4,636.07	22,282.56
TOTAL ZONING FLOOR AREA	RESIDENTIAL			22,282.56

TOTAL	NEW BUILDING & EXISTING SYNAGOGUE	94,702.38	69,434.69
TOTAL	NEW BUILDING	54,953.00	41,694.88

VARIANCES PERMITTED BY THE BOARD OF STANDARDS AND APPEALS ACTION 74-07-BZ (CEQR #07-BSA-071M)

	SUBJECT		ZR SECTION	REQUIRED BY ZR	PROVIDED	PERMITTED BY BSA 74-07BZ	COMMENTS
1	INTERIOR LOT COVERAGE	R8B	ZR 24-11/77-24	0.7	.80	.80	COMPLIES WITH VARIANCE- SEE Z.002
2	LOT COVERAGE	R10A	ZR 24-11/77-24	0.7	.80	.80	COMPLIES WITH VARIANCE- SEE Z.002
3	REAR YARD	R8B	ZR 24-36	30.00'	20.00'	20.00'	COMPLIES WITH VARIANCE- SEE Z.002
4	REAR YARD	R10A	ZR 24-36	30.00'	20.00'	20.00'	COMPLIES WITH VARIANCE- SEE Z.002
5	INITIAL BUILDING SETBACK	R8B	ZR 24-36	15.00'	12.00'	12.00'	COMPLIES WITH VARIANCE- SEE Z.002
6	BASE HEIGHT	R8B	ZR 23-633	60.00'	94.54'	95.08'	COMPLIES WITH VARIANCE- SEE Z.002
7	BUILDING HEIGHT	R8B	ZR 23-66	75.00'	105.71'	105.83'	COMPLIES WITH VARIANCE- SEE Z.002
8	REAR SETBACK	R8B	ZR 23-633	10.00'	6.67'	6.67'	COMPLIES WITH VARIANCE- SEE Z.002

ADDITIONAL BSA REQUIREMENTS

MAXIMUM PROPOSED COMMUNITY FACILITY FLOOR AREA	19,412.32 SF	20,054 SF	COMPLIES- SEE TABLE ON Z.001
MAXIMUM PROPOSED RESIDENTIAL FLOOR AREA	22,282.56 SF	22,352 SF	COMPLIES- SEE TABLE ON Z.001
TOTAL MAXIMUM PROPOSED FLOOR AREA	41,694.88 SF	42,406 SF	COMPLIES- SEE TABLE ON Z.001
REFUSE TO BE STORED IN REFRIGERATED TRASH ROOM			COMPLIES- SEE A.100
OBTAIN UPDATED COF A FROM LPC PRIOR TO ISSUANCE OF PERMIT			COMPLIES- SEE LPC STATUS UPDATE LETTER OF 2.10.14

NOTE: REFER TO FIRST AND LAST TWO PAGES OF VARIANCE FOR SUBJECTS AND REQUIREMENTS

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Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
05.10.13		DOB Zoning & Egress

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
SITE PLAN, ZONING CALCULATIONS & AVE. CURB LEVEL

Project Number: 12639
Drawn By: SJD
Checked By: SJD
Scale: As indicated

Signature & Seal:
REGISTERED ARCHITECT MICHAEL G. WHITE NO. 14775 STATE OF NEW YORK

Sheet Number:
Z.001.00

NYC DOB Number: 121328919
Sheet: 2 of 81

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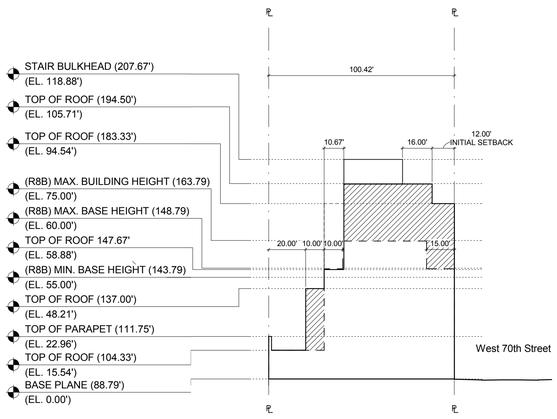
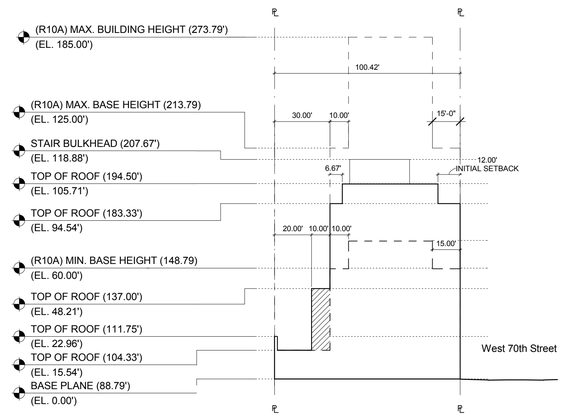
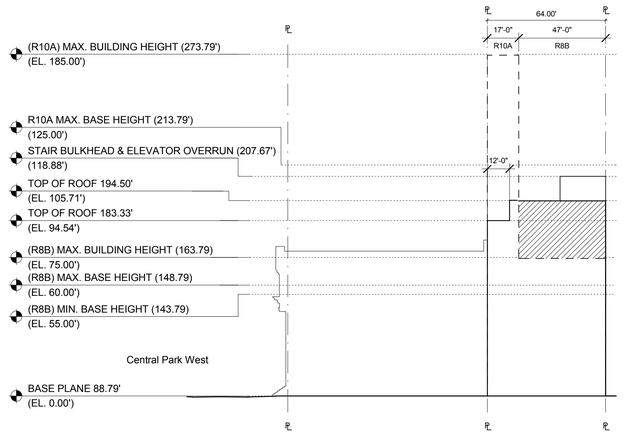
Opp. Ex. 1001 Page 2 of 205



WEST 70TH ST WALL SECTION @ R8B | 1 | 1/32" = 1'-0"



WEST 70TH ST WALL SECTION @ R10A | 4 | 1/32" = 1'-0"

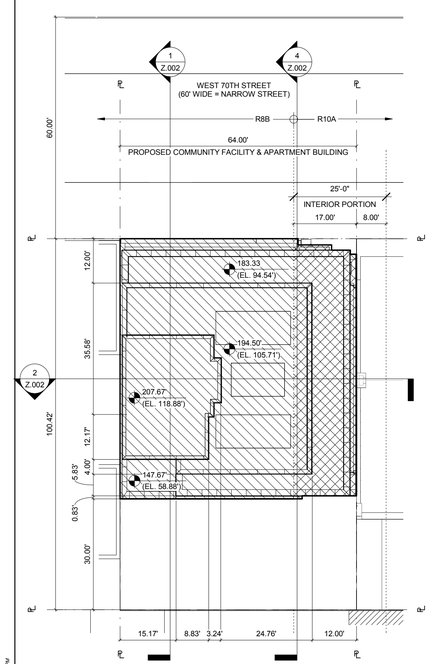


CENTRAL PARK WEST WALL SECTION | 2 | 1/32" = 1'-0"

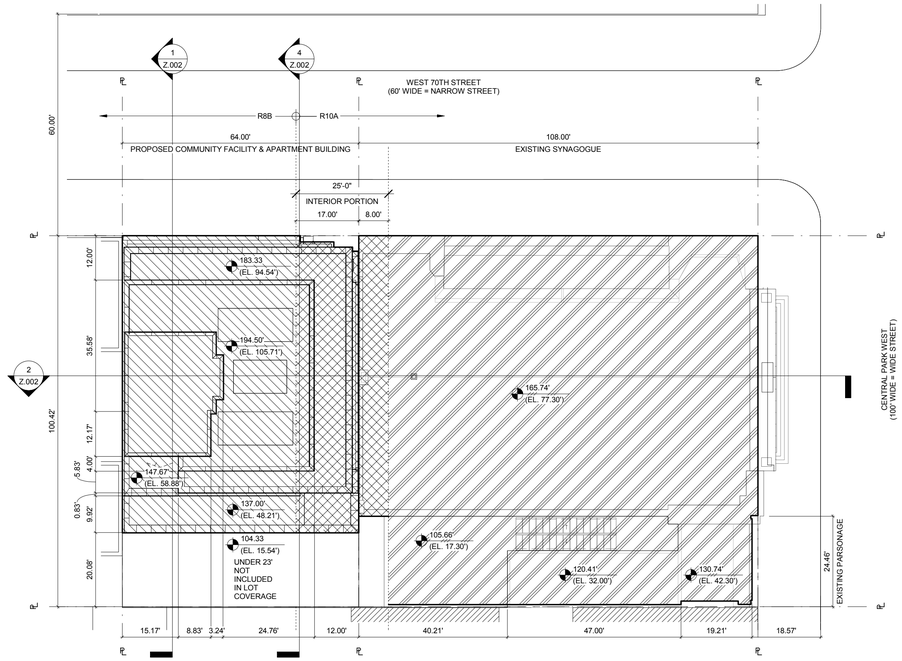
SECTION LEGEND

NON-COMPLYING AREA
PERMITTED UNDER BSA VARIANCE

FROM MANHATTAN DATUM - (EL. 0.00')
FROM CURB LEVEL



LOT COVERAGE - RESIDENTIAL | 5 | 1/16" = 1'-0"



LOT COVERAGE - COMM. FAC. | 3 | 1/16" = 1'-0"

LOT COVERAGE: 23-145

LOT COVERAGE PERMITTED
R8B 70%
R10A 70%

R8B = .70 X 4,720 SF = 3304 SF
R10A = .70 X 1,707 SF = 1195 SF

LOT COVERAGE PROVIDED
R8B 3,780 SF
R10A 1,368 SF

R8B = 3,780 / 4,720 SF = 80%
R10A = 1,368 / 1,707 SF = 80%

DOES NOT COMPLY.
PERMITTED UNDER BSA
ACTION # 74-07-BZ

LOT COVERAGE LEGEND

R8B INTERIOR
COMMUNITY FACILITY

R10A INTERIOR
COMMUNITY FACILITY

R10A CORNER

3/19/2014 2:27:24 PM

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Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
05.10.13		DOB Zoning & Egress

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
STREET WALL SECTIONS & LOT COVERAGE CALCULATIONS

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated

Signature & Seal:
REGISTERED ARCHITECT
SAMUEL G WHITE
No. 14175
STATE OF NEW YORK

Sheet Number:
Z.002.00

NYC DOB Number: 121328919
Sheet: 3 of 81

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5. ALL ELEVATIONS SHOWN REFER TO THE BOROUGH PRESIDENT OF MANHATTAN DATUM WHICH IS 2.750 FEET ABOVE MEAN SEA LEVEL AT SANDY HOOK, NEW JERSEY, AS ESTABLISHED BY THE U.S. COAST AND GEODETIC SURVEY.
6. LEGAL GRADES SHOWN WERE TAKEN FROM THE MANHATTAN BOROUGH SECTIONAL MAPS. LEGAL GRADES REFER TO TOP OF CURB.
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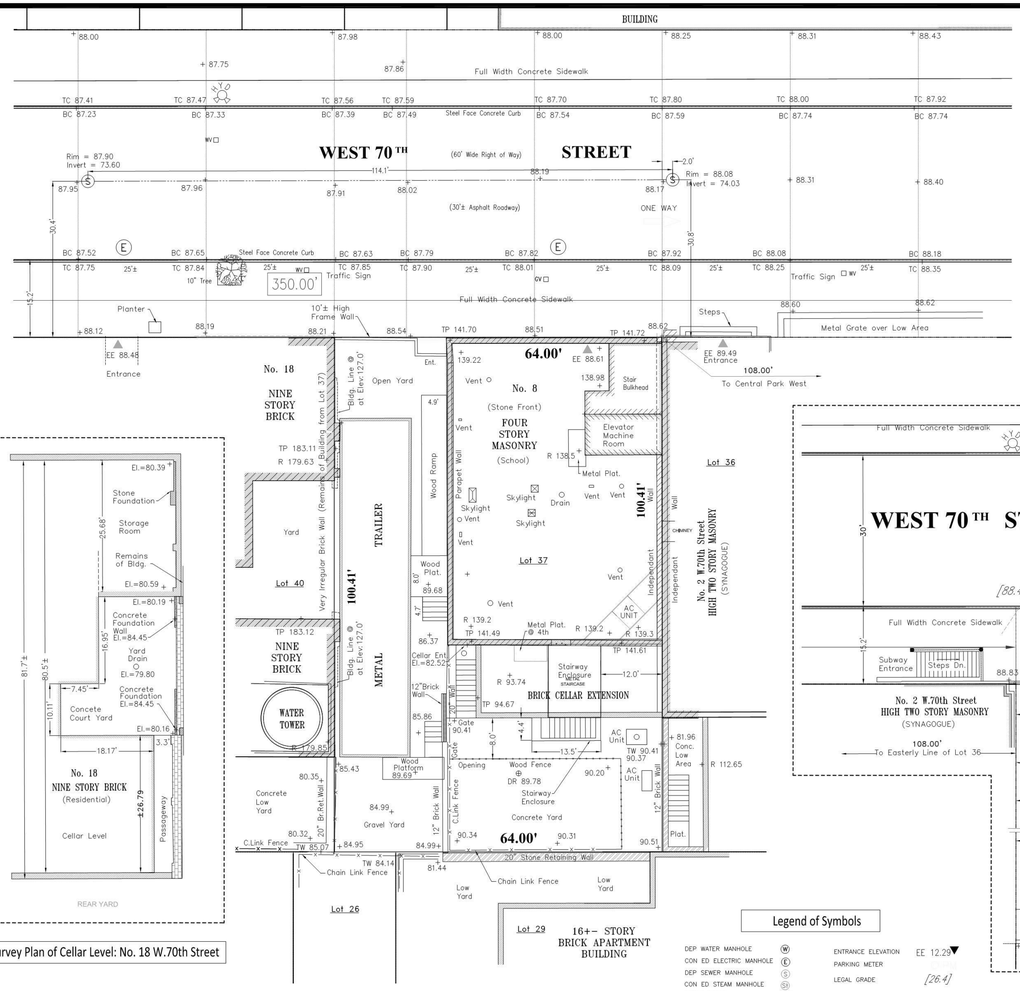
9. THE OFFSETS AND DIMENSIONS SHOWN FROM THE STRUCTURES TO THE PROPERTY LINES ARE FOR A SPECIFIC PURPOSE AND USE AND THEREFORE ARE NOT INTENDED TO GUIDE THE ERECTION OF STRUCTURES AND ANY OTHER CONSTRUCTION.
10. THIS IS TO CERTIFY THAT THERE ARE NO STREAMS OR OTHER WATER COURSES ON OR IN THE PROPERTY EXCEPT AS SHOWN ON THE MAP.

Abbreviations

BC	BOTTOM OF CURB
C.C.	CONCRETE CURB
C.L.	CENTERLINE
C.L.F.	CHAIN LINK FENCE
CONC.	CONCRETE
C.W.	CONCRETE WALL
DC	DROP CURB FOR DRIVEWAY
E.O.P.	EDGE OF PAVEMENT
G.C.	GRANITE CURB
INV.	INVERT
F.R.P.	FROM RECORD PLAN
RIM	TOP OF MANHOLE RIM
ROW	RIGHT OF WAY
TC	TOP OF CURB
T.M.	TAX MAP
TW	TOP OF WALL



Survey Plan of Cellar Level: No. 18 W.70th Street

Survey Plan Street Intersection (Subway Location)

(Note: Plottable Limits Only (Accuracy Not Guaranteed)

Legend of Symbols

- DEP WATER MANHOLE
- CON ED ELECTRIC MANHOLE
- DEP SEWER MANHOLE
- CON ED STEAM MANHOLE
- CATCH BASIN
- LOW PRESSURE HYDRANT
- GAS VALVE
- WATER VALVE
- SPOT ELEVATION ×13.29
- EXISTING TREE & SIZE
- TRAFFIC SIGN, MISC SIGN
- TRAFFIC BOX
- BOLLARD
- HANDI CAP RAMP
- ENTRANCE ELEVATION EE 12.29
- PARKING METER
- LEGAL GRADE [26.4]
- STEAM VALVE
- UNDERGROUND UTILITY VAULT
- LOT NUMBER 69
- STREET LIGHT W/TRAFFIC SIGNAL ON METAL POLE
- ELECTRIC UTILITY BOX
- TRAFFIC DIRECTION
- STREET LIGHT ON METAL POLE

Line Types

- CABLE LINE
- GAS LINE — 16" C.I. GAS MAIN
- TELEPHONE LINE
- ELECTRIC LINE
- WATER LINE
- SEWER LINE — 15" COMBINED SEWER
- STEAM LINE
- TRAFFIC STRIPING LINE
- NEW YORK CITY R.O.W.

1 inch = 10 ft.

CERTIFIED BY: Patrick Benedict Jones
New York State Licensed Land Surveyor
License No. 050624

Map of Survey of Property
in the
County of New York
Borough of Manhattan
City of New York

Architectural Survey

Congregation Shearith Israel
No. 8 West 70th Street-NYC

Project Number:	2013-06-1122NY
Survey Date:	02-15-2013
SCALE:	1" = 10'

Site Address: 8 W 70TH Street New York, NY 10023

Drawn: RH | Approved: PJ

Drawing No. 1

Sheet No. 1 OF 1

www.nycsurveyors.com
Phone: 1-718-816-8182 Fax: 1-718-816-8184
New York City Land Surveyors, PC
200 Radcliff Road, Staten Island, NY 10305

NO.	DATE	DESCRIPTION	BY	APPROVED BY
1	4-17-13	ADDED SIDEWALK ELEVATIONS TO SURVEY	RM	PJONES

Revisions

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Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
05.10.13		DOB Zoning & Egress

Project:
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Sheet Title:
SITE SURVEY

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale:

Signature & Seal:
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Sheet: 4 of 81

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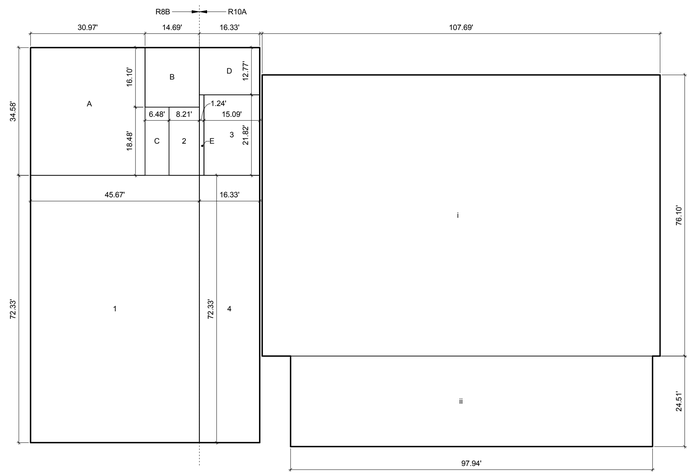
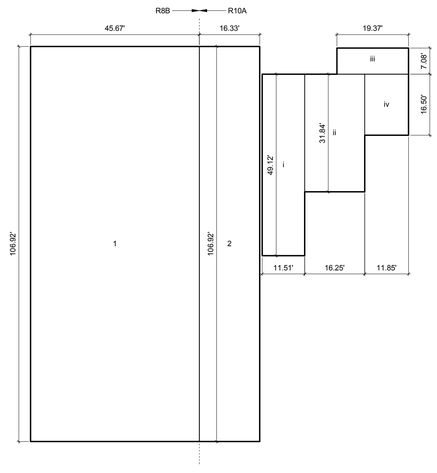


_DOB_FLOOR AREA - LEVEL 0			
	LENGTH	WIDTH	AREA
COMMUNITY FACILITY (EXISTING) R10A			
i R10A	107.69'	76.10'	8,195.26 SF
ii R10A	97.94'	24.51'	2,400.10 SF
			10,595.36 SF
COMMUNITY FACILITY (PROPOSED) R10A			
3 R10A	15.09'	21.82'	329.20 SF
4 R10A	16.33'	72.33'	1,181.44 SF
			1,510.64 SF
COMMUNITY FACILITY (PROPOSED) R8B			
1 R8B	45.67'	72.33'	3,303.22 SF
2 R8B	8.21'	18.48'	151.82 SF
			3,455.04 SF
RESIDENTIAL (PROPOSED) R8B			
A R8B	30.97'	34.58'	1,071.18 SF
B R8B	14.69'	16.10'	236.54 SF
C R8B	6.48'	18.48'	119.76 SF
			1,427.48 SF
RESIDENTIAL (PROPOSED) R10A			
D R10A	16.33'	12.77'	208.51 SF
E R10A	1.27'	21.82'	27.61 SF
			236.12 SF
Grand total			17,224.65 SF

AREA LOWER LEVEL 1	2
	1/16" = 1'-0"



_DOB_FLOOR AREA - LEVEL 00			
	LENGTH	WIDTH	AREA
COMMUNITY FACILITY (EXISTING) R10A			
i R10A	11.51'	49.12'	565.24 SF
ii R10A	16.25'	31.84'	517.20 SF
iii R10A	19.37'	7.08'	137.11 SF
iv R10A	11.85'	16.50'	195.56 SF
			1,415.11 SF
COMMUNITY FACILITY (PROPOSED) R10A			
2 R10A	16.33'	106.92'	1,746.31 SF
			1,746.31 SF
COMMUNITY FACILITY (PROPOSED) R8B			
1 R8B	45.67'	106.92'	4,882.53 SF
			4,882.53 SF
Grand total			8,043.94 SF

AREA LOWER LEVEL 2	1
	1/16" = 1'-0"

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New York, NY 10023

Sheet Title:
AREA CALCULATIONS CELLAR & SUBCELLAR FLOORS

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 1/16" = 1'-0"
Signature & Seal:
REGISTERED ARCHITECT
SAMUEL G. WHITE
NO. 14775
STATE OF NEW YORK

Sheet Number:
Z.004.00

NYC DOB Number: 121328919
Sheet: 5 of 81

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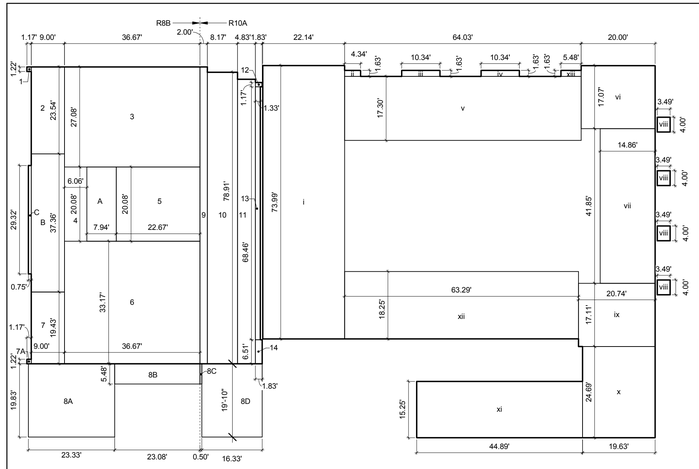
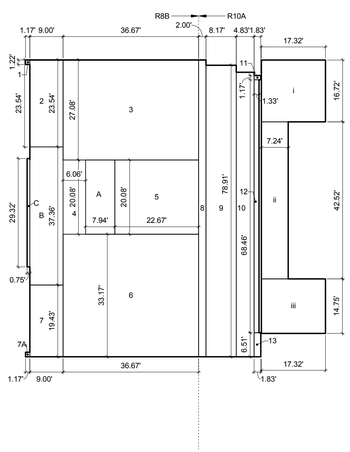
3/19/2014 3:12:34 PM

DEPT OF BLDGS 121328919 Job Number
ES437.2594681 Scan Code

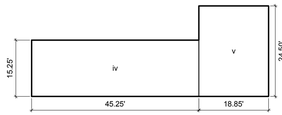


_DOB_FLOOR AREA - LEVEL 2			
	LENGTH	WIDTH	AREA
COMMUNITY FACILITY (EXISTING) R10A			
i R10A	22.14'	73.99'	1,638.13 SF
ii R10A	4.34'	1.63'	7.07 SF
iii R10A	10.34'	1.63'	16.85 SF
iv R10A	10.34'	1.63'	16.85 SF
v R10A	64.03'	17.30'	1,107.71 SF
vi R10A	20.00'	17.07'	341.40 SF
vii R10A	14.86'	41.85'	621.89 SF
viii R10A	3.49'	4.00'	13.96 SF
viii R10A	3.49'	4.00'	13.96 SF
viii R10A	3.49'	4.00'	13.96 SF
viii R10A	3.49'	4.00'	13.96 SF
ix R10A	20.74'	17.11'	354.86 SF
x R10A	19.63'	24.69'	484.66 SF
xi R10A	44.89'	15.25'	684.57 SF
xii R10A	63.29'	18.25'	1,155.05 SF
xiii R10A	5.48'	1.63'	8.93 SF
			6,493.83 SF
COMMUNITY FACILITY (PROPOSED) R10A			
8C R10A	0.50'	5.48'	2.74 SF
8D R10A	16.33'	19.83'	323.94 SF
9 R10A	2.00'	80.33'	160.67 SF
10 R10A	8.17'	78.91'	645.03 SF
11 R10A	4.83'	77.00'	371.55 SF
12 R10A	1.83'	1.17'	2.14 SF
13 R10A	1.33'	68.46'	91.28 SF
14 R10A	1.83'	6.51'	11.94 SF
			1,609.29 SF
COMMUNITY FACILITY (PROPOSED) R8B			
1 R8B	1.17'	1.22'	1.42 SF
2 R8B	9.00'	23.54'	211.87 SF
3 R8B	36.67'	27.08'	993.06 SF
4 R8B	6.06'	20.08'	121.76 SF
5 R8B	22.67'	20.08'	455.22 SF
6 R8B	36.67'	33.17'	1,216.11 SF
7 R8B	9.00'	19.43'	174.84 SF
7A R8B	1.17'	1.22'	1.42 SF
8A R8B	23.33'	19.83'	462.78 SF
8B R8B	23.08'	5.48'	126.48 SF
			3,764.96 SF
RESIDENTIAL (PROPOSED) R8B			
A R8B	7.94'	20.08'	159.41 SF
B R8B	9.00'	37.36'	336.28 SF
C R8B	0.75'	29.32'	21.99 SF
			517.69 SF
Grand total			12,385.76 SF

ZONING AREA - LEVEL 2	2
	1/16" = 1'-0"



_DOB_FLOOR AREA - LEVEL 4			
	LENGTH	WIDTH	AREA
COMMUNITY FACILITY (EXISTING) R10A			
i R10A	17.32'	16.72'	289.59 SF
ii R10A	7.24'	42.52'	307.84 SF
iii R10A	17.32'	14.75'	255.47 SF
iv R10A	45.25'	15.25'	690.06 SF
v R10A	18.85'	24.50'	461.82 SF
			2,004.79 SF
COMMUNITY FACILITY (PROPOSED) R10A			
8 R10A	2.00'	80.33'	160.67 SF
9 R10A	8.17'	78.91'	645.03 SF
10 R10A	4.83'	77.00'	371.55 SF
11 R10A	1.83'	1.17'	2.14 SF
12 R10A	1.33'	68.46'	91.28 SF
13 R10A	1.83'	6.51'	11.94 SF
			1,282.60 SF
COMMUNITY FACILITY (PROPOSED) R8B			
1 R8B	1.17'	1.22'	1.42 SF
2 R8B	9.00'	23.54'	211.87 SF
3 R8B	36.67'	27.08'	993.06 SF
4 R8B	6.06'	20.08'	121.76 SF
5 R8B	22.67'	20.08'	455.22 SF
6 R8B	36.67'	33.17'	1,216.11 SF
7 R8B	9.00'	19.43'	174.84 SF
7A R8B	1.17'	1.22'	1.42 SF
			3,175.71 SF
RESIDENTIAL (PROPOSED) R8B			
A R8B	7.94'	20.08'	159.41 SF
B R8B	9.00'	37.36'	336.28 SF
C R8B	0.75'	29.32'	21.99 SF
			517.69 SF
Grand total			6,980.78 SF



ZONING AREA - LEVEL 4	4
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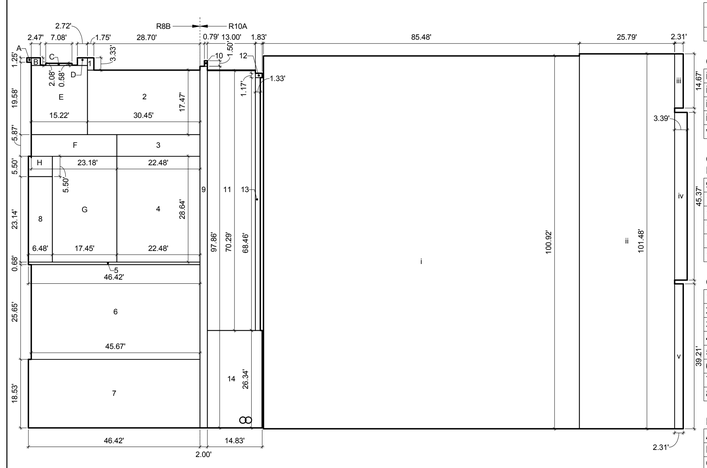
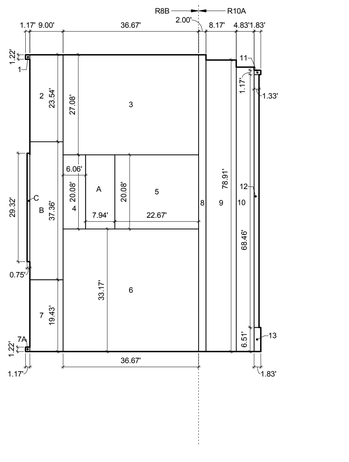
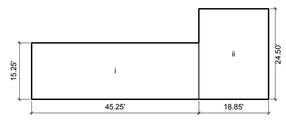


_DOB_FLOOR AREA - LEVEL 1			
	LENGTH	WIDTH	AREA
COMMUNITY FACILITY (EXISTING) R10A			
i R10A	85.48'	100.92'	8,626.39 SF
ii R10A	25.79'	101.48'	2,617.19 SF
iii R10A	2.31'	14.67'	33.89 SF
iv R10A	3.39'	45.37'	153.80 SF
v R10A	2.31'	39.21'	90.57 SF
			11,521.83 SF
COMMUNITY FACILITY (PROPOSED) R10A			
9 R10A	2.00'	97.86'	195.73 SF
10 R10A	0.79'	1.50'	1.19 SF
11 R10A	13.00'	70.29'	913.79 SF
12 R10A	1.83'	1.17'	2.14 SF
13 R10A	1.33'	68.46'	91.28 SF
14 R10A	14.83'	26.34'	390.77 SF
			1,594.89 SF
COMMUNITY FACILITY (PROPOSED) R8B			
1 R8B	1.75'	3.33'	5.83 SF
2 R8B	30.45'	17.47'	531.84 SF
3 R8B	22.48'	5.87'	131.91 SF
4 R8B	22.48'	28.64'	643.97 SF
5 R8B	46.42'	0.68'	31.75 SF
6 R8B	45.67'	25.65'	1,171.18 SF
7 R8B	46.42'	18.53'	860.06 SF
8 R8B	6.48'	23.14'	150.02 SF
			3,526.56 SF
RESIDENTIAL (PROPOSED) R8B			
A R8B	1.17'	1.25'	1.46 SF
B R8B	2.47'	2.08'	5.14 SF
C R8B	7.08'	0.58'	4.13 SF
D R8B	2.72'	2.08'	5.66 SF
E R8B	15.22'	18.72'	284.78 SF
F R8B	23.18'	5.87'	136.00 SF
G R8B	17.45'	28.64'	499.72 SF
H R8B	6.48'	5.50'	35.69 SF
			972.59 SF
Grand total			17,615.87 SF

ZONING AREA - LEVEL 1	1
	1/16" = 1'-0"



_DOB_FLOOR AREA - LEVEL 3			
	LENGTH	WIDTH	AREA
COMMUNITY FACILITY (EXISTING) R10A			
i R10A	45.25'	15.25'	690.06 SF
ii R10A	18.85'	24.50'	461.82 SF
			1,151.89 SF
COMMUNITY FACILITY (PROPOSED) R10A			
8 R10A	2.00'	80.33'	160.67 SF
9 R10A	8.17'	78.91'	645.03 SF
10 R10A	4.83'	77.00'	371.55 SF
11 R10A	1.83'	1.17'	2.14 SF
12 R10A	1.33'	68.46'	91.28 SF
13 R10A	1.83'	6.51'	11.94 SF
			1,282.60 SF
COMMUNITY FACILITY (PROPOSED) R8B			
1 R8B	1.17'	1.22'	1.42 SF
2 R8B	9.00'	23.54'	211.87 SF
3 R8B	36.67'	27.08'	993.06 SF
4 R8B	6.06'	20.08'	121.76 SF
5 R8B	22.67'	20.08'	455.22 SF
6 R8B	36.67'	33.17'	1,216.11 SF
7 R8B	9.00'	19.43'	174.84 SF
7A R8B	1.17'	1.22'	1.42 SF
			3,175.71 SF
RESIDENTIAL (PROPOSED) R8B			
A R8B	7.94'	20.08'	159.41 SF
B R8B	9.00'	37.36'	336.28 SF
C R8B	0.75'	29.32'	21.99 SF
			517.69 SF
Grand total			6,127.88 SF



ZONING AREA - LEVEL 3	3
	1/16" = 1'-0"

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MEP Engineer
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Acoustics
Longman Lindsey
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New York, NY 10018
212.315.6400

Elevator Consultant
Iros Elevator Design Services
884Patterson Avenue,
East Rutherford, NJ 12553
973.773.4404

Code Consultant
Design 1237
52 Diamond Street
Brooklyn, NY 11222
718.383.9340
718.383.8510 fax

Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
05.10.13		DOB Zoning & Egress

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
AREA CALCULATIONS 1ST - 4TH FLOORS

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 1/16" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT MICHAEL G. HARRIS 031417 STATE OF NEW YORK

Sheet Number:
Z.005.00

NYC DOB Number: 121328919
Sheet: 6 of 81

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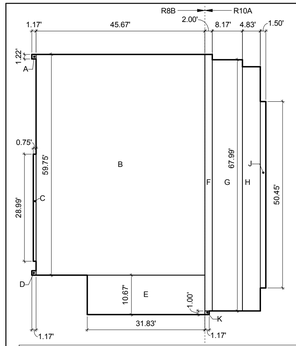
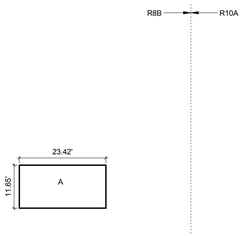


ZONING AREA - LEVEL 7	3
	1/16" = 1'-0"

_DOB_FLOOR AREA - LEVEL 7

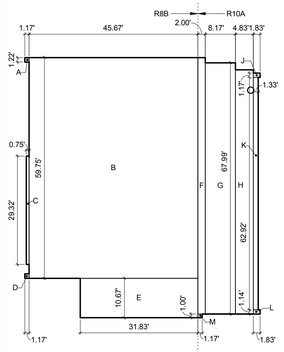
	LENGTH	WIDTH	AREA
RESIDENTIAL (PROPOSED) R8B			
A R8B	1.17'	1.22'	1.42 SF
B R8B	45.67'	59.75'	2,728.58 SF
C R8B	0.75'	28.99'	21.74 SF
D R8B	1.17'	1.22'	1.42 SF
E R8B	31.83'	10.67'	339.56 SF
			3,092.73 SF
RESIDENTIAL (PROPOSED) R10A			
F R10A	2.00'	69.42'	138.83 SF
G R10A	8.17'	67.99'	555.79 SF
H R10A	4.83'	66.08'	318.87 SF
J R10A	1.50'	50.45'	75.67 SF
K R10A	1.17'	1.00'	1.17 SF
			1,090.34 SF
Grand total			4,183.06 SF



ZONING AREA - LEVEL 10 - BULKHEAD	6
	1/16" = 1'-0"

_DOB_FLOOR AREA - LEVEL 10...

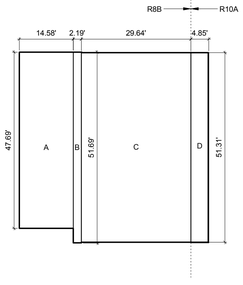
	LENGTH	WIDTH	AREA
RESIDENTIAL (PROPOSED) R8B			
A R8B	23.42'	11.65'	272.71 SF
			272.71 SF
Grand total			272.71 SF



ZONING AREA - LEVEL 6	2
	1/16" = 1'-0"

_DOB_FLOOR AREA - LEVEL 6

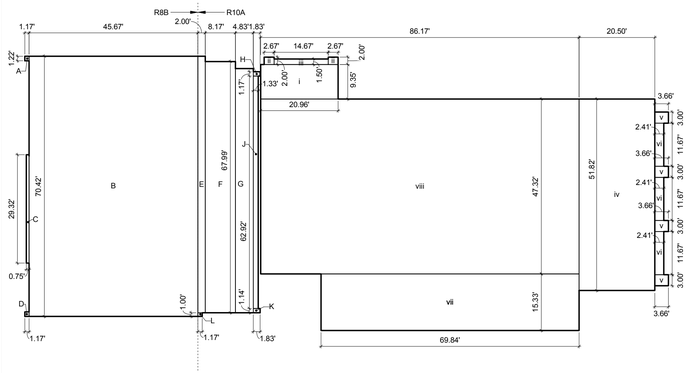
	LENGTH	WIDTH	AREA
RESIDENTIAL (PROPOSED) R8B			
A R8B	1.17'	1.22'	1.42 SF
B R8B	45.67'	59.75'	2,728.58 SF
C R8B	0.75'	29.32'	21.99 SF
D R8B	1.17'	1.22'	1.42 SF
E R8B	31.83'	10.67'	339.56 SF
			3,092.98 SF
RESIDENTIAL (PROPOSED) R10A			
F R10A	2.00'	69.42'	138.83 SF
G R10A	8.17'	67.99'	555.79 SF
H R10A	4.83'	66.08'	318.87 SF
J R10A	1.83'	1.17'	2.14 SF
K R10A	1.33'	62.92'	83.89 SF
L R10A	1.83'	1.14'	2.08 SF
M R10A	1.17'	1.00'	1.17 SF
			1,102.78 SF
Grand total			4,195.75 SF



ZONING AREA - LEVEL 9	5
	1/16" = 1'-0"

_DOB_FLOOR AREA - LEVEL 9

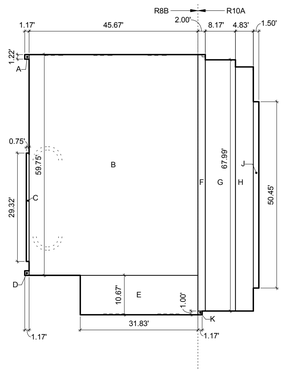
	LENGTH	WIDTH	AREA
RESIDENTIAL (PROPOSED) R8B			
A R8B	14.58'	47.69'	695.44 SF
B R8B	2.19'	51.69'	113.34 SF
C R8B	29.64'	51.31'	1,520.88 SF
			2,329.65 SF
RESIDENTIAL (PROPOSED) R10A			
D R10A	4.85'	51.47'	249.83 SF
			249.83 SF
Grand total			2,579.49 SF



ZONING AREA - LEVEL 5	1
	1/16" = 1'-0"

_DOB_FLOOR AREA - LEVEL 5

	LENGTH	WIDTH	AREA
COMMUNITY FACILITY (EXISTING) R10A			
i R10A	20.96'	9.35'	195.97 SF
ii R10A	2.67'	2.00'	5.34 SF
ii R10A	2.67'	2.00'	5.34 SF
iii R10A	14.67'	1.50'	22.00 SF
iv R10A	20.50'	51.82'	1,062.30 SF
v R10A	3.66'	3.00'	10.98 SF
v R10A	3.66'	3.00'	10.98 SF
v R10A	3.66'	3.00'	10.98 SF
v R10A	3.66'	3.00'	10.98 SF
vi R10A	2.41'	11.67'	28.13 SF
vi R10A	2.41'	11.67'	28.13 SF
vi R10A	2.41'	11.67'	28.13 SF
vii R10A	69.84'	15.33'	1,070.65 SF
viii R10A	86.17'	47.32'	4,077.56 SF
			6,567.47 SF
RESIDENTIAL (PROPOSED) R8B			
A R8B	1.17'	1.22'	1.42 SF
B R8B	45.67'	70.42'	3,215.69 SF
C R8B	0.75'	29.32'	21.99 SF
D R8B	1.17'	1.22'	1.42 SF
			3,240.53 SF
RESIDENTIAL (PROPOSED) R10A			
E R10A	2.00'	69.42'	138.83 SF
F R10A	8.17'	67.99'	555.79 SF
G R10A	4.83'	66.08'	318.87 SF
H R10A	1.83'	1.17'	2.14 SF
J R10A	1.33'	62.92'	83.89 SF
K R10A	1.83'	1.14'	2.08 SF
L R10A	1.17'	1.00'	1.17 SF
			1,102.78 SF
Grand total			10,910.77 SF



ZONING AREA - LEVEL 8	4
	1/16" = 1'-0"

_DOB_FLOOR AREA - LEVEL 8

	LENGTH	WIDTH	AREA
RESIDENTIAL (PROPOSED) R8B			
A R8B	1.17'	1.22'	1.42 SF
B R8B	45.67'	59.75'	2,728.58 SF
C R8B	0.75'	29.32'	21.99 SF
D R8B	1.17'	1.22'	1.42 SF
E R8B	31.83'	10.67'	339.56 SF
			3,092.98 SF
RESIDENTIAL (PROPOSED) R10A			
F R10A	2.00'	69.42'	138.83 SF
G R10A	8.17'	67.99'	555.79 SF
H R10A	4.83'	66.08'	318.87 SF
J R10A	1.50'	50.45'	75.67 SF
K R10A	1.17'	1.00'	1.17 SF
			1,090.34 SF
Grand total			4,183.31 SF

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Code Consultant
Design 1237
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Brooklyn, NY 11222
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718.383.8510 fax

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Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
05.10.13		DOB Zoning & Egress

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
AREA CALCULATIONS 5TH - PENTHOUSE FLOORS

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 1/16" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT MICHAEL G. WHITE 14175 STATE OF NEW YORK

Sheet Number:
Z.006.00

NYC DOB Number: 121328919
Sheet: 7 of 81

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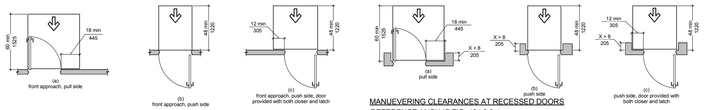
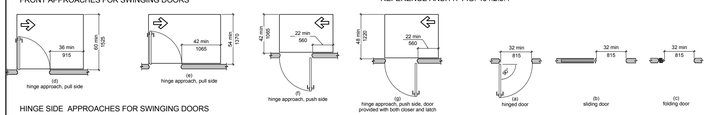
ACCESSIBILITY DIAGRAMS

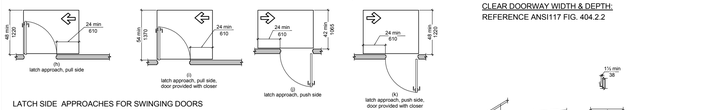
MANUEVERING CLEARANCES AT DOORS:
REFERENCE ANSI117 FIG. 404.2.3.1



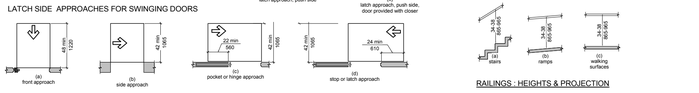
FRONT APPROACHES FOR SWINGING DOORS



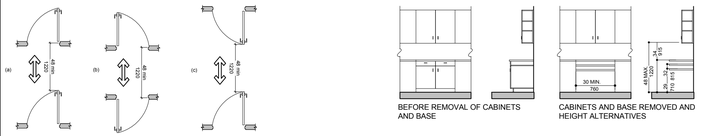
HINGE SIDE APPROACHES FOR SWINGING DOORS



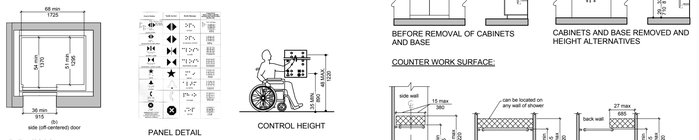
LATCH SIDE APPROACHES FOR SWINGING DOORS



APPROACH AT SLIDING DOORS



TWO HINGED DOORS IN SERIES:
REFERENCE ANSI117 FIG. 404.2.5



PANEL DETAIL

CONTROL HEIGHT

ELEVATORS:
REFERENCE ANSI117 FIG. 407.4.1



LAVATORIES IN ADAPTABLE BATHROOM
REFERENCE ANSI117 FIG. 1004.11.3.2.1

STORAGE SHELVES AND CLOSETS:

PUBLIC DRINKING FOUNTAINS:



CLEAR FLOOR SPACE FOR TYPE B UNIT:
REFERENCE ANSI117 FIG. 1004.11.3.1.2

PUBLIC W/C CLEARANCE & HANDBARS
REFERENCE ANSI117 SECTION 604

MANUEVERING CLEARANCES AT RECESSED DOORS
REFERENCE ANSI117 FIG. 404.2.3.4

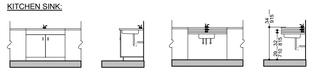
CLEAR DOORWAY WIDTH & DEPTH:
REFERENCE ANSI117 FIG. 404.2.2

RAILINGS - HEIGHTS & PROJECTION

BEFORE REMOVAL OF CABINETS AND BASE

CABINETS AND BASE REMOVED AND HEIGHT ALTERNATIVES

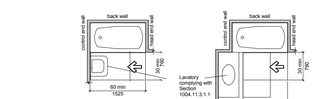
KITCHEN SINK:


BEFORE REMOVAL OF CABINETS AND BASE

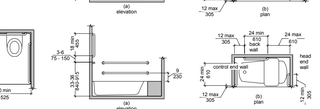
CABINETS AND BASE REMOVED AND HEIGHT ALTERNATIVES

COUNTER WORK SURFACE:

LOCATION OF GRAB BARS AND CONTROLS IN ADAPTABLE SHOWERS
REFERENCE ANSI117 FIG. 608.5.1 & 608.5.2



CLEAR SPACE AT BATHTUBS:
REFERENCE ANSI117 FIG. 1004.11.3.1.3.1



LOCATION OF GRAB BARS AND CONTROLS IN ADAPTABLE BATHRUBS
REFERENCE ANSI117 FIG. 607.4.1 & 607.4.2

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OCCUPANT LOAD SUMMARY

RM.	NAME	USE	AREA	SF/OCC.		TOTAL OCC.
001	BANQUET ROOM	A-2	4,771.87 SF	15.00 SF	Net	331
002	DETENTION TANK	R-2	180.11 SF	300.00 SF	Gross	1
003	FURNITURE STORAGE	A-2	146.93 SF	300.00 SF	Gross	1
006	SUMP PIT	R-2	70.33 SF	300.00 SF	Gross	1
007	PREP	B	223.06 SF	100.00 SF	Gross	4
008	A/V EQUIPMENT	A-2	66.97 SF	300.00 SF	Gross	1
009	ELEV. 1+4 MACH. RM	B	146.52 SF	300.00 SF	Gross	1
LOWER LEVEL 2						340
052	COATS	B	117.91 SF	300.00 SF	Gross	1
061	FIRE PUMP	R-2	90.71 SF	300.00 SF	Gross	1
062	GENERATOR FUEL PUMPS	R-2	80.78 SF	300.00 SF	Gross	1
063	BOILER ROOM	R-2	253.94 SF	300.00 SF	Gross	1
064	GAS METER	R-2	101.40 SF	300.00 SF	Gross	1
065	WATER SERVICE	R-2	410.45 SF	300.00 SF	Gross	2
066	ELECTRICAL SERVICES	R-2	394.17 SF	300.00 SF	Gross	2
067	EMER. PWR	R-2	82.50 SF	300.00 SF	Gross	1
068	IT	R-2	69.35 SF	300.00 SF	Gross	1
070	JAN / WASH / TRASH	B	71.10 SF	300.00 SF	Gross	1
071	FOOD SERVICE	F-2	1,291.85 SF	200.00 SF	Gross	13
071A	WALK-IN FRIDGE	F-2	69.03 SF	300.00 SF	Gross	1
072	STORAGE	F-2	45.25 SF	300.00 SF	Gross	1
074	STORAGE - (ELEV. PIT ABOVE)	B	131.47 SF	300.00 SF	Gross	1
LOWER LEVEL 1						28
110	EMR-2	R-2	47.55 SF	300.00 SF	Gross	1
111	RES. TRASH	R-2	56.98 SF	300.00 SF	Gross	2
112	EMR-3	R-2	42.11 SF	300.00 SF	Gross	1
113	COATS	B	50.62 SF	300.00 SF	Gross	1
116	EQUIPMENT	B	71.81 SF	300.00 SF	Gross	1
118	COMMONS	A-2	1634.00 SF	5.00 SF	Net	328
120	COFFEE PANTRY	A-2	45.03 SF	300.00 SF	Gross	2
121	PREP	A-2	81.06 SF	200.00 SF	Gross	1
LEVEL 1						337
210	CLASSROOM 1	E	369.16 SF	20.00 SF	Net	25
211	CLASSROOM 2	E	379.61 SF	20.00 SF	Net	25
212	CLASSROOM 3	E	315.50 SF	20.00 SF	Net	20
213	READING ROOM	E	96.16 SF	20.00 SF	Net	4
214	MIDRASH EAST	E	281.40 SF	20.00 SF	Net	24
216	BEIT MIDRASH	E	632.40 SF	20.00 SF	Net	66
217	MIDRASH WEST	E	144.33 SF	20.00 SF	Net	10
250	TERRACE	E	760.39 SF	100.00 SF	Gross	64
LEVEL 2						238
307	OPEN OFFICE	B	402.72 SF	100.00 SF	Gross	6
308	COPY / SUP	B	68.09 SF	100.00 SF	Gross	1
309	OFFICE 1	B	193.07 SF	100.00 SF	Gross	2
310	OFFICE 2	B	128.72 SF	100.00 SF	Gross	2
311	OFFICE 3	B	141.41 SF	100.00 SF	Gross	2
312	OFFICE 4	B	131.07 SF	100.00 SF	Gross	2
313	OFFICE 5	B	180.23 SF	100.00 SF	Gross	2
314	OFFICE 6	B	109.13 SF	100.00 SF	Gross	2
315	OFFICE 7	B	109.13 SF	100.00 SF	Gross	2
316	WAITING	B	102.14 SF	100.00 SF	Gross	2
318	CONFERENCE	B	143.51 SF	100.00 SF	Gross	10
319	OFFICE 8	B	157.45 SF	100.00 SF	Gross	2
320	KITCHENETTE	B	63.15 SF	100.00 SF	Gross	1
324	SUPT. QUARTERS	R-2	370.73 SF	200.00 SF	Gross	4
LEVEL 3						40
405	OPEN OFFICE	B	1,807.69 SF	100.00 SF	Gross	35
410	MECHANICAL	B	1,458.50 SF	300.00 SF	Gross	5
LEVEL 4						40
506	APARTMENT	R-2	650.23 SF	200.00 SF	Gross	16
550	PRIVATE TERRACE	R-2	3030.12 SF	200.00 SF	Gross	3
LEVEL 5						19
606	APARTMENT	R-2	648.09 SF	200.00 SF	Gross	16
650	PRIVATE TERRACE	R-2	3189.66 SF	200.00 SF	Gross	2
LEVEL 6						18
706	APARTMENT	R-2	555.74 SF	200.00 SF	Gross	17
LEVEL 7			3222.80 SF			17
804	MEP	R-2	30.35 SF	300.00 SF	Gross	1
805	DUPLEX APARTMENT - LOWER LEVEL	R-2	3,300.66 SF	200.00 SF	Gross	17
LEVEL 8						18
904	MEP	R-2	30.37 SF	300.00 SF	Gross	1
905	DUPLEX APARTMENT - UPPER LEVEL	R-2	1,884.81 SF	200.00 SF	Gross	10
950	PRIVATE TERRACE	R-2	1,062.80 SF	200.00 SF	Gross	6
LEVEL 9 - PH						17
1004	GENERATOR		194.97 SF	300.00 SF	Gross	0
LEVEL 10 - ROOF						0
						1112

BUILDING CODE ANALYSIS

APPLICABLE CODES

NEW YORK CITY BUILDING CODE, 2008 (NYCBC)
NEW YORK CITY FUEL GAS CODE, 2008
NEW YORK CITY MECHANICAL CODE, 2008
NEW YORK CITY PLUMBING CODE, 2008
NEW YORK CITY FIRE CODE, 2008
NEW YORK CITY ELECTRICAL CODE, 2007
NEW YORK CITY ENERGY CONSERVATION CODE, 2011

AMERICAN DISABILITIES ACT, 2010
ANSI A117.1, 2003

NFPA 101 LIFE SAFETY CODE, 2006
NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2002, AS MODIFIED BY APPENDIX Q OF NYCBC
NFPA 14 STANDARD FOR THE INSTALLATION OF STANDPIPES & HOSE SYSTEMS, 2003 AS MODIFIED BY APPENDIX Q OF NYCBC
NFPA 72 NATIONAL FIRE ALARM CODE, 2002, AS MODIFIED BY APPENDIX Q OF NYCBC

BUILDING CLASSIFICATION

508.3.2	ONE HIGH RISE BUILDING, MIXED USE, WITH NON-SEPARATED
508.3.3	OCCUPANCIES AND SEPARATED OCCUPANCIES

OCCUPANCY CLASSIFICATION

310.1.1 508.3	R-2 IS THE MAIN USE OR DOMINANT OCCUPANCY OF THE BUILDING

USE GROUPS

303.1	ASSEMBLY (FOOD & DRINK)	A-2
303.1	ASSEMBLY (WORSHIP & LECTURE)	A-3
304.1	BUSINESS	B
305.1	EDUCATION	E
306.3	FACTORY INDUSTRIAL (LOW HAZARD- KITCHEN)	F-2
301.1.2	RESIDENTIAL (MULTIPLE DWELLING)	R-2

INCIDENTAL USES

TABLE 508.2	BOILER ROOM (>15PSI &10 HP)	2HR or 1HR + AFES
	MECH and/or ELEC. EQMT. ROOM	1HR or Automatic Sprinkler System
	STORAGE ROOMS > 100SF	1HR or AFES
	WASTE & LINEN RM.S > 100SFHR or AFES	
	IT ROOMS PER 645.1 NYCEC	As Req'd by NYC Electrical Code

CONSTRUCTION TYPE

TABLE 601	TYPE 1B NON COMBUSTIBLE

ALLOWABLE BUILDING HEIGHT

TABLE 503, 504.2	UNLIMITED

ALLOWABLE NUMBER OF STORIES

TABLE 503	UNLIMITED FOR ALL USE GROUPS

ALLOWABLE BUILDING AREA PER FLOOR

TABLE 503	UNLIMITED FOR ALL USE GROUPS

REQUIRED FIRE RESISTANCE RATINGS FOR BUILDING ELEMENTS

TABLE 601	BUILDING ELEMENT	FIRE RATING
	STRUCTURAL FRAME	2 HOURS
	BEARING WALLS- EXTERIOR	2 HOURS
	BEARING WALLS- INTERIOR	2 HOURS
	NON-BEARING WALLS & PARTITIONS- EXT.	SEE TABLE 602
	NON-BEARING WALLS & PARTITIONS- INT.	0 HOURS
	FLOOR CONSTRUCTION	2 HOURS
	ROOF CONSTRUCTION	1 HOUR

REQUIRED FIRE RESISTANCE RATINGS FOR EXTERIOR WALLS

TABLE 602	FIRE SEPARATION DIST.	CONST. TYPE	USE. A,B,E,R-2
	0 TO 5 FEET	ALL	1 HR
	5 TO 10 FEET	IB	1 HR
	10 TO 30 FEET	IB	1 HR
	> 30 FEET	ALL	0 HR

SHAFT ENCLOSURE RATING

707.4	> 3 STORIES, 2 HOURS < 3 STORIES, 1 HOUR, (But not less than rating of the floor that is penetrated)

MAXIMUM AREA OF EXTERIOR WALL OPENINGS - R-2

TABLE 704.8 FOOTNOTES j, k	CLASSIFICATION OF OPENING	FIRE SEPARATION DIST. (FEET)	% of EXTERIOR WALL AREA ALLOWED
	PROTECTED	0 TO 3	10%
	UNPROTECTED	3 TO 5	15%
	UNPROTECTED	5 TO 10	25%
	UNPROTECTED	10 TO 15	45%
	UNPROTECTED	15 TO 20	75%
	UNPROTECTED	20 TO 25	NO LIMIT
	UNPROTECTED	25 TO 30	NO LIMIT
	UNPROTECTED	> 30	NO LIMIT

PUBLIC CORRIDOR FIRE RESISTANCE RATINGS (SPRINKLERED)

TABLE 1016.1.2	OCCUPANCY	REQUIRED FIRE RESISTANCE RATING
	A,E,F,M,S,U	1 HR
	B	1 HR
	R	1 HR

INTERIOR CORRIDOR FIRE RESISTANCE RATINGS (SPRINKLERED)

TABLE 1016.1.1	OCCUPANCY	OCC. LOAD SERVED BY CORR.	RATING
	A,B,E,F,M,S,U	GREATER THAN 30	0 HR
	R	GREATER THAN 10	0 HR

SPECIAL DETAILED REQUIREMENTS BASED ON USE & OCCUPANCY

High Rise Buildings BC 403	AUTOMATIC SPRINKLER SYSTEM AUTOMATIC FIRE DETECTION EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM FIRE COMMAND CENTER EMERGENCY POWER SYSTEMS SMOKEPROOF EXIT ENCLOSURES IMPACT RESISTANT STAIR AND ELEVATOR ENCLOSURES EXIT PATH MARKINGS

MEANS OF EGRESS- EGRESS WIDTH

TABLE 1005.1	STAIR (WIDTH PER OCCUPANT SERVED)	0.3"
TABLE 1005.1	OTHER EGRESS COMP. (WIDTH PER OCCUPANR SERVED)	0.2"
1009.1	MIN. STAIRWAY WIDTH (TYPICAL)	44"
1016.2	MIN. CORRIDOR WIDTH (MECH. EQMT. ACCESS)	24"
1016.2	MIN. CORRIDOR WIDTH (<50 OCUPANTS)	36"
1016.2	MIN. CORRIDOR WIDTH (WITHIN R-2/R-3 DWELLING)	30"
1016.2	MIN. CORRIDOR WIDTH (>50 OCUPANTS)	44"
1016.2	MIN. CORRIDOR WIDTH (GROUP E SERVING CLASSROOMS6"	
1016.3	DEAD ENDS > 1 EXIT REQUIRED	20' MAX. L
1016.3	DEAD ENDS AT B & F OCCUPANCY (SPRINKLERED)	50' MAX. L
1016.3	DEAD ENDS < 2.5x LEAST WIDTH OF CORRIDOR	2.5xW

MEANS OF EGRESS- ACCESSIBLE MEANS OF EGRESS

1007.1	2 REQUIRED FROM EACH FLOOR- 2 PROVIDED FROM EACH FLOOR

MEANS OF EGRESS- EXIT ACCESS TRAVEL DISTANCE (SPRINKLERED)

1013.3	COMMON PATH OF EGRESS TRAVEL (EXCEPT H,B,F.S)	75' MAX.
1013.3	COMMON PATH OF EGRESS TRAVEL @ B,F,S	100' MAX.
1024.8	COMMON PATH OF EGRESS TRAVEL @ A	30' MAX.
TABLE 1015.1	EXIT ACCESS TRAVEL DISTANCE @ F,M,R,S-1	200'
TABLE 1015.1	EXIT ACCESS TRAVEL DISTANCE @ B	300'
TABLE 1015.1	EXIT ACCESS TRAVEL DISTANCE @ F-2, S-2	200'
TABLE 1024.7	EXIT ACCESS TRAVEL DISTANCE @ A-1,2,3,4 (PRIMARY)	150'
TABLE 1024.7	EXIT ACCESS TRAVEL DIST. @ A-1,2,3,4 (SECONDARY)	200'

SPACES WITH ONE MEANS OF EGRESS

TABLE 1014.1.1	OCCUPANCY	MAXIMUM OCCUPANCY LOAD
	A,B,E,M,U	74 PEOPLE
	F	50 PEOPLE
	I-4	10 PEOPLE
	R	20 PEOPLE
	S	30 PEOPLE

REMOTE LOCATION OF EXITS IN SPRINKLERED BUILDINGS

1014.2.1.1	SEPARATION DIST. OF ACCESS DOORS TO BE NOT LESS THAN 1/3 OF THE LENGTH OF THE MAX. OVERALL DIAGONAL DIM. OF THE AREA

SCISSOR STAIRS

1014.2.1.3.1	WHERE SCISSOR STAIRS ARE PERMITTED, DOORS TO STAIRS SHALL BE AT LEAST 10' APART AND ENCLOSURE SHALL BE 2 HR. RATED

ACCESSIBLE DWELLING & SLEEPING UNITS

1107.6.2 1018.1	IN R-2, EVERY DWELLING UNIT TO BE A TYPE B UNIT

MINIMUM NUMBER OF EXITS FOR OCCUPANT LOAD

	1-500 OCCUPANTS	2 EXITS MIN.
	501-1000 OCCUPANTS	3 EXITS MIN.
	1000+ OCCUPANTS	4 EXITS MIN.

MINIMUM PLUMBING FACILITIES

TABLE PC403.1	Desc:	Occ:	Urinals, W/Cs M	F	Lav.s	Drinking Fountain	Other
	Banquet	A-2	1/75	1/75	1/200	1/500	1 Service Sink
	Lecture	A-3	1/70 to 210 then 1/125	1/35 to 210 then 1/65	1/200	1/500	1 Service Sink
	Office	B	<20M=1	<20F=1	1ea.	1/100	1 Service Sink
	School	E	1/50	1/50	1/100	1/100	1 Service Sink
	ChildCare	I-4	1/15	1/15	1/100	1/100	1 Service Sink

LOCATION OF TOILET FACILITIES

PC403.5	EMPLOYEE TOILETS TO BE NOT MORE THAN ONE FLOOR ABOVE OR BELOW AN EMPLOYEE'S WORK AREA. MAX 500' TRAVEL DIST.
PC403.6	PUBLIC TOILETS TO BE NOT MORE THAN ONE FLOOR ABOVE OR BELOW AREA REQUIRED TO BE SERVED. MAX 500' TRAVEL DIST.

AUTOMATIC SPRINKLER SYSTEM

BC903.3.1.1	SPRINKLER SYSTEM TO BE PROVIDED IN ACCORDANCE WITH NFPA 13 AS MODIFIED BY NYCBC APPENDIX Q

STANDPIPE SYSTEM

BC905.2 BC905.3.2	CLASS 1 AUTOMATIC WET STANDPIPE SYSTEM TO BE PROVIDED IN ACCORDANCE WITH NFPA 14, AS MODIFIED BY NYCBC APPENDIX Q

PORTABLE FIRE EXTINGUISHERS

BC906.1	TO BE PROVIDED IN ACCORDANCE WITH NFPA 14

FIRE ALARM SYSTEM

BC907.1	FIRE ALARM SYSTEM TO BE PROVIDED IN ACCORDANCE WITH NFPA 72 AS MODIFIED BY NYCBC APPENDIX Q

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Shaugat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

08.06.14		DOB New Building Permit Set
01.31.14		Guaranteed Max Price (80% CD)
05.10.13		DOB Zoning & Egress
Date:	*No.:*	*Description:*

Project:
8 West 70th

8 West 70th St.
New York, NY 10023

Sheet Title:
BUILDING CODE COMPLIANCE

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated

Signature & Seal:
REGISTERED ARCHITECT EMANUEL G WHITE No. 14175 STATE OF NEW YORK

Sheet Number:
A.001.00

NYC DOB Number: 121328919
Sheet: 8 of 81

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Opp. Ex. 1001 Page 8 of 205

DEPT OF BLDGS 121328919 Job Number
ES3006468057 Scan Code

MATERIAL LEGEND

- EXISTING CONSTRUCTION
- CONCRETE
- CONCRETE MASONRY UNIT
- RIGID INSULATION
- BATT INSULATION
- GYPSUM BOARD
- STEEL
- ALUMINUM
- PLYWOOD
- WOOD - FINISHED
- WOOD - STRUCTURAL OR BLOCKING

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB PRIOR TO COMMENCING WORK. ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS, BEFORE PROCEEDING WITH THE WORK.
2. THE CONTRACTOR WILL BE HELD STRICTLY RESPONSIBLE FOR HIS WORK. ANY DISCREPANCIES IN THE DRAWINGS OR DETAILS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT
3. WHERE DISCREPANCIES OCCUR AND/OR WHERE THERE ARE CONFLICTS OR OMISSIONS IN THE DRAWINGS AND APPLICATIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY AND REFRAIN FROM STARTING AND COMPLETING SUCH WORK, OR DEPENDENT WORK, UNTIL DIRECTED BY THE ARCHITECT TO PROCEED.
4. THE EXISTING CONSTRUCTION OF BUILDING WALLS, FLOORS AND ROOFS IS ASSUMED BASED ON NON-INVASIVE VISUAL OBSERVATION. ACTUAL COMPOSITION MAY DIFFER FROM THAT SHOWN. ALL CONDITIONS THAT DEVIATE SIGNIFICANTLY FROM THOSE SHOWN HEREIN SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION AS SOON AS POSSIBLE FOR COORDINATION.
5. DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK, SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE DRAWINGS.
6. THE CONTRACTOR SHALL MAINTAIN COMPLETE AND UP-TO-DATE CONTRACT DRAWINGS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.
7. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. DRAWINGS ARE NOT TO BE SCALED. ALL WORK SHALL BE LAID OUT BY DIMENSIONS.
8. ALL MATERIALS, ASSEMBLIES, FORMS AND METHODS OF CONSTRUCTION AND SERVICE EQUIPMENT TO BE INCORPORATED IN THE WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE ASTM SPECIFICATIONS APPLICABLE, AND TO CONFORM TO THE STANDARDS AND RECOMMENDATIONS OF THE VARIOUSTRADE INSTITUTES (ACI, ASC, ETC.) WHERE APPLICABLE.
9. ALL MATERIALS INCORPORATED INTO THE WORK SHALL BE NEW AND SHALL COMPLY WITH THE REQUIREMENTS OF THE CODE.
10. THE CONTRACTOR SHALL DO ALL CUTTING, PATCHING, AND REPAIRING AS REQUIRED TO PERFORM ALL OF ITS WORK INDICATED ON THE DRAWINGS, AND ALL OTHER WORK THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURINGCONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTIONS, AND OFF-ALIGNMENT ACCORDING TO APPLICABLE CODES, STANDARDS AND GOOD PRACTICE.

KEY TO SYMBOLS

- 1 / DM - 101 — SECTION OR SECTION DETAIL REFERENCE
- 1 Ref / ←Ref A101 →Ref / 1 Ref — INTERIOR ELEVATIONS
- 1 / A101 SIM — DETAIL REFERENCE
- #A / 1hr — PARTITION TYPE; HOURLY RATING
- 101 — DOOR NUMBER
- 1t — WINDOW NUMBER
- ROOM NAME; 101 | SF; USE | # — ROOM NUMBER; SQUARE FEET; NO. OF PERSONS; OCCUPANCY GROUP
- ℄ — PROPERTY LINE
- 0 — COLUMN NUMBER
- Name / Elevation — LEVEL INDICATION
- NORTH ARROW
- 1 — REVISION NUMBER
- KEYNOTE
- ILLUMINATED EXIT SIGN
- ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROW
- REMOTE LOCATION
- EXIT ACCESS TRAVEL DISTANCE

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	JT	JOINT
ALT.	ALTERNATE		
ALUM.	ALUMINUM	LAV.	LAVATORY
AHU	AIR HANDLING UNIT	LBS	POUNDS
ASPH.	ASPHALT		
		MAX.	MAXIMUM
BD	BOARD	MECH	MECHANICAL
BLKG	BLOCKING	MEMB	MEMBRANE
BLDG	BUILDING	MFR	MANUFACTURER
BM	BEAM	MIN.	MINIMUM
		MO	MASONRY OPENING
C.I.P	CAST IN PLACE	MR	MOISTURE RESISTANT
CJ	CONTROL JOINT	MTL	METAL
CLG	CEILING		
CMU	CONCRETE MASONRY UNIT	NIC	NOT IN CONTRACT
COL.	COLUMN	NTS	NOT TO SCALE
CONC.	CONCRETE		
CONTR	CONTRACTOR	O.C.	ON CENTER
CW	CURTAIN WALL	O.D.	OUTSIDE DIAMETER
		OPP.	OPPOSITE
DF.	DRINKING FOUNTAIN		PTD. PAINTED
DIA.	DIAMETER	PT	PRESSURE TREATED
DIM.	DIMENSION		
DR	DOOR	RADIUS	
DWG	DRAWING	RAD.	RADIATOR
		RD	ROOF DRAIN
EA	EACH	REINF.	REINFORCED
EL	ELEVATION	(REINFORCING)	
ELEC.	ELECTRICAL	RO	ROUGH OPENING
EXIST.	EXISTING		
EXT.	EXTERIOR	SHT	SHEET
		SIM.	SIMILAR
FD	FLOOR DRAIN	SS	STAINLESS STEEL
FIN.	FINISH	STL	STEEL
FLR	FLOOR	STR	STRUCTURE
FP	FIREPROOF(ING)	(STRUCTURAL)	
FT	FEET		
		TOS	TOP OF SLAB
GA	GAUGE	TYP.	TYPICAL
GL	GLASS, GLAZING		
GYP.	GYPSUM	UON	UNLESS OTHERWISE
GWB	GYPSUM WALL BOARD		NOTED
HDWR	HARDWARE	VAR.	VARIES
HM	HOLLOW METAL	VERT.	VERTICAL
HOR.	HORIZONTAL	VIF	VERIFY IN FIELD
HT	HEIGHT		
HVAC	HEATING, VENTILATION & AIR CONDITIONING	W/	WITH
		WC	WATER CLOSET
		WD	WOOD
I.D.	INSIDE DIAMETER		WIN. WINDOW
IN.	INCHES	WO	WITHOUT
INSUL.	INSULATION	WP	WATERPROOFING
INT.	INTERIOR	WR	WATER RESISTANT

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Shaugat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
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Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
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07.01.13		80% CD Pricing Set

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
GENERAL NOTES & MATERIALS LEGEND

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated

Signature & Seal:
REGISTERED ARCHITECT MICHAEL G. FINNERTY 14175 STATE OF NEW YORK

Sheet Number:
A.003.00

NYC DOB Number: 121328919
Sheet: 9 of 81

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ES9000300152 Scan Code

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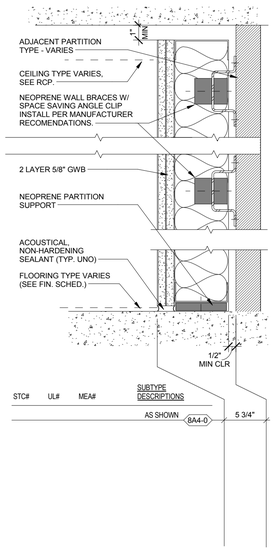

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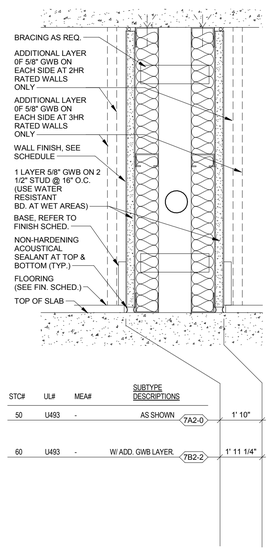
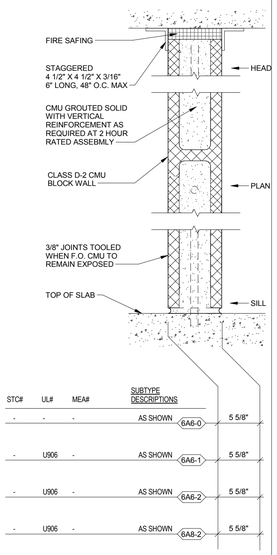
			AS SHOWN	8A4-0	5 3/4"

TYPE 7: CHASE WALLS
0 & 2HR RATED



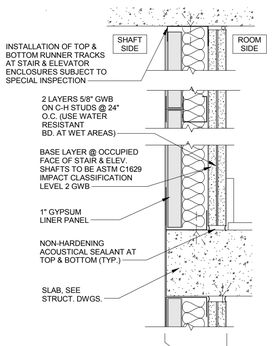
STC#	UL#	MEA#	SUBTYPE DESCRIPTIONS		
50	U493	-	AS SHOWN	7A2-0	1' 10"
60	U493	-	W/ ADD. GWB LAYER.	7B2-2	1' 11 1/4"

TYPE 6: CMU PARTITIONS
0 & 1 & 2HR RATED



STC#	UL#	MEA#	SUBTYPE DESCRIPTIONS		
-	-	-	AS SHOWN	6A6-0	5 5/8"
-	U906	-	AS SHOWN	6A6-1	5 5/8"
-	U906	-	AS SHOWN	6A6-2	5 5/8"
-	U906	-	AS SHOWN	6A8-2	5 5/8"

TYPE 5: SHAFT WALL
2HR RATED



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47	U415	BSA 542-68-SM	AS SHOWN	5A2-2	3 3/4"
50	U415	BSA 542-68-SM	AS SHOWN	5A4-2	5 1/8"
51	U415	BSA 542-68-SM	AS SHOWN	5A6-2	7 1/4"

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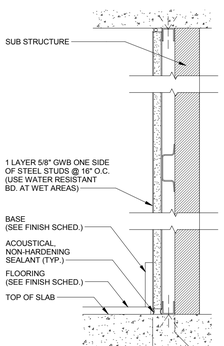
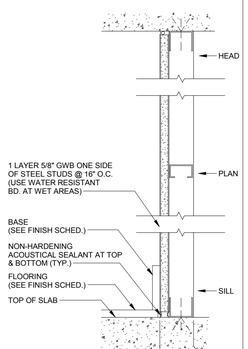


STC#	UL#	MEA#	SUBTYPE DESCRIPTIONS		
-	-	-	AS SHOWN	4A0-0	1 1/2"
-	-	-	AS SHOWN	4A1-0	2 1/8"

TYPE 3: FURRING - STUD



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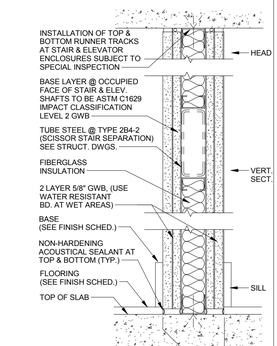
-	-	-	AS SHOWN	3A1-0	2 1/4"
-	-	-	AS SHOWN	3A2-0	3 1/8"
-	-	-	AS SHOWN	3A4-0	4 1/4"

TYPE 2: STUD PARTITION
2HR RATED



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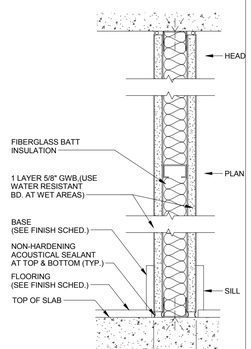
54	U419	MEA 81-98-M	AS SHOWN	2A2-2	5"
57	U419	MEA 81-98-M	AS SHOWN	2A4-2	6 1/8"
57	U419	MEA 81-98-M	W TUBE STEEL	2B4-2	
56	U419	MEA 81-98-M	AS SHOWN	2A6-2	8 1/2"

TYPE 1: STUD PARTITION
0 & 1HR RATED



STC#	UL#	MEA#	SUBTYPE DESCRIPTIONS		
45	-	MEA 80-98-M	AS SHOWN	1A2-0	3 3/4"
45	U419	MEA 80-98-M		1A2-1	
-	-	MEA 80-98-M	NO INSULATION	1B2-0	
46	-	MEA 80-98-M	AS SHOWN	1A4-0	4 7/8"
46	U465	MEA 80-98-M	AS SHOWN	1A4-1	
46	-	MEA 80-98-M	AS SHOWN	1A6-0	7 1/4"
46	U465	MEA 80-98-M	AS SHOWN	1A6-1	

PARTITION TYPE GRAPHIC TAG — 1A3-0 — SIZE DESIGNATOR (SEE TABLE BELOW)

PARTITION TYPE — FIRE RATING (IN HOURS) P = SMOKE PARTITION B = SMOKE BARRIER IN 1HR MIN RATED WALL

SUBTYPE (MODIFICATIONS TO PARTITION TYPE)

MATERIAL	DESIGNATION SIZE	ACTUAL SIZE	SPACING
STL STUDS	1 2 4 6	1 5/8" 2 1/2" 3 5/6" 6"	16" OC
CMU	4 6 8 10 12	3 5/8" 5 5/8" 7 5/8" 9 5/8" 11 5/8"	N/A
FURRING	0 1	7/8" 1 1/2 "	16" OC
SHAFTWALL C-H STUDS	2 4 6	2 1/2" 4" 6"	24" OC

FRAMING SPACING SHALL BE AS LISTED ABOVE UNO.

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Project:
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Sheet Title:
PARTITION TYPES

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 3" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT SAMUEL G. WHITE No. 14175 STATE OF NEW YORK

Sheet Number:
A.011.00

NYC DOB Number: 121328919
Sheet: 10 of 81

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Opp. Ex. 1001 Page 10 of 205

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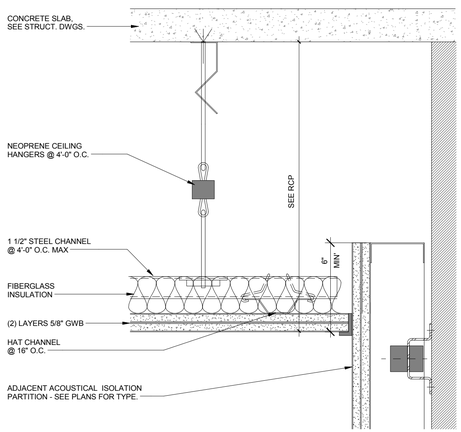

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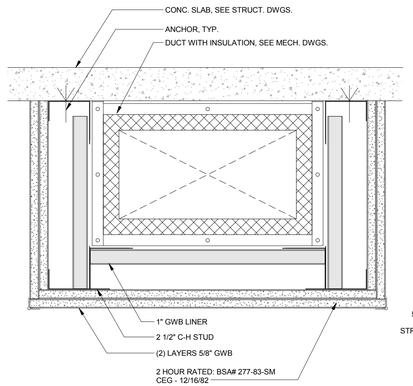
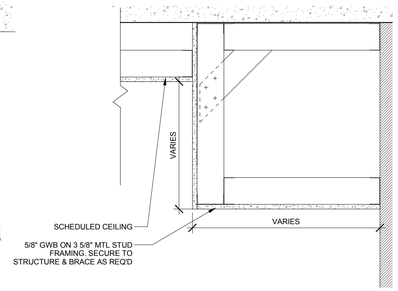


TYPICAL 2-HR RATED HORIZ. ENCLOSURE 9 — 3" = 1'-0"



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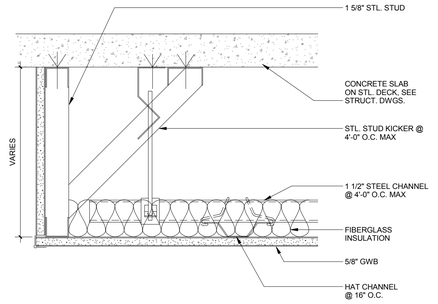

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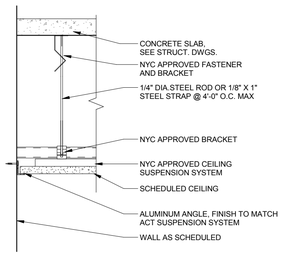

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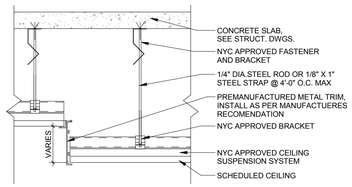

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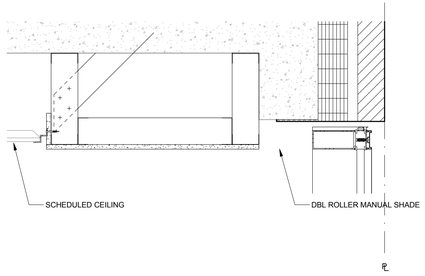

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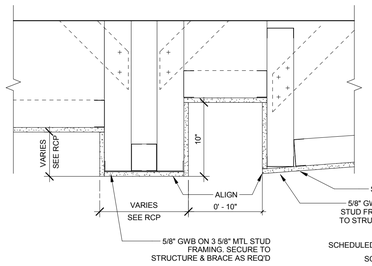

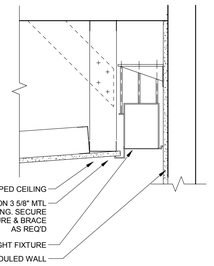

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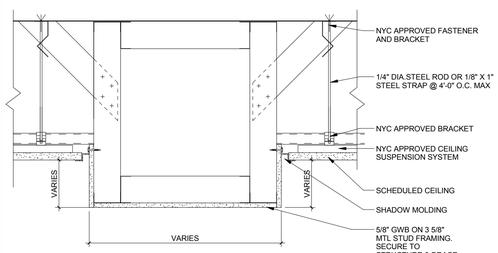

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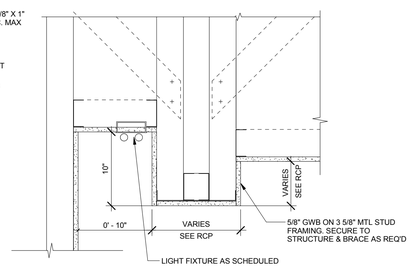

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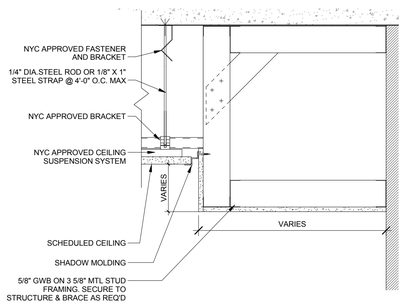

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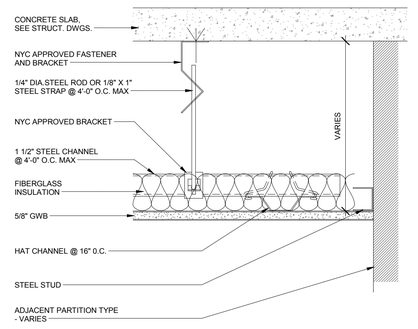

CEILING - TYPICAL GWB DROPPED 1 — 3" = 1'-0"

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Sheet Title:
CEILING AND SOFFIT DETAILS

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated
Signature & Seal:
REGISTERED ARCHITECT DANIEL G. WINKLER 14175 STATE OF NEW YORK

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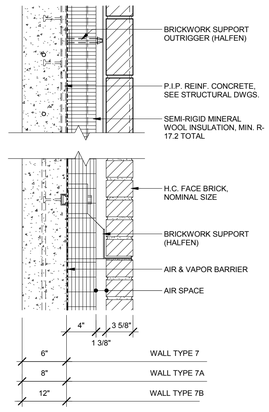

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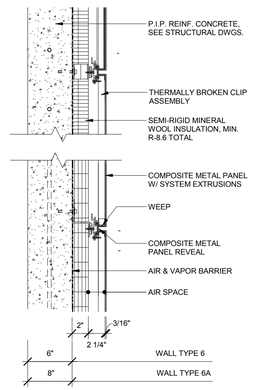

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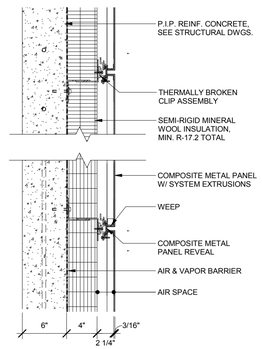

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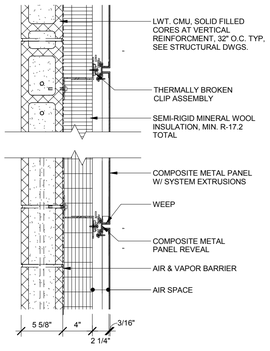

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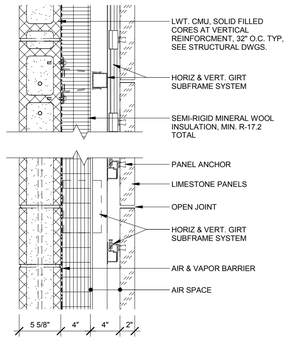

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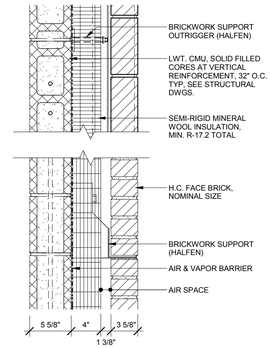

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
EXTERIOR WALL TYPES

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 1 1/2" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT DANIEL G. PAYNE 14175 STATE OF NEW YORK

Sheet Number:
A.013.00

NYC DOB Number: 121328919
Sheet: 12 of 81

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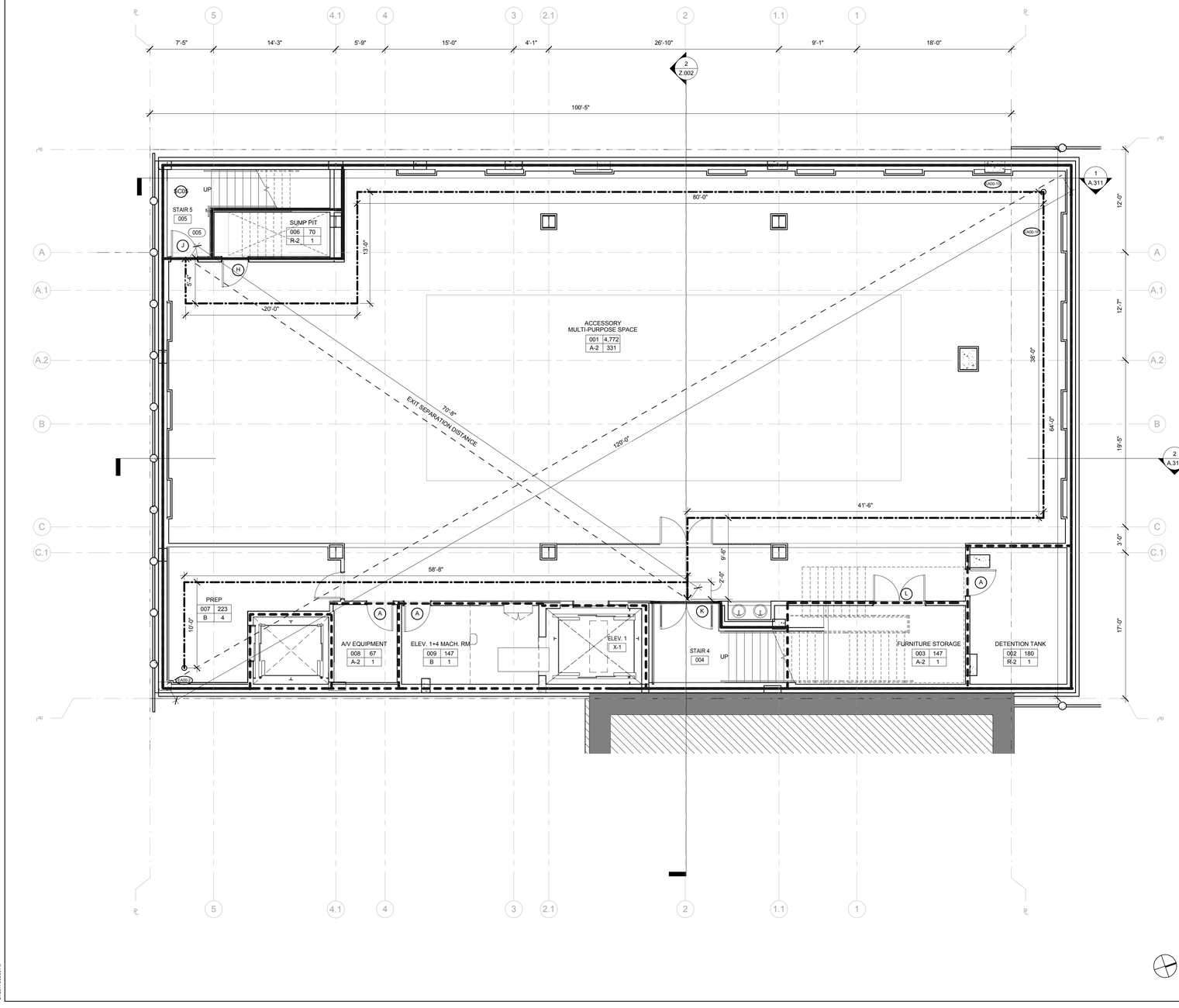

PLUMBING FIXTURES

PC 403.1, 403.6

PER NYC PLUMBING CODE 403.6, RESTROOM FACILITIES ARE PROVIDED ONE FLOOR ABOVE. SEE SHEET A.100 FOR CALCULATIONS.

CAPACITY OF EXIT STAIRS

BC 1005.1

SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	PROVIDED WIDTH
50% OF FLOOR	170	0.3"	51.0"	
50% OF FLOOR	170	0.3"	51.0"	
TOTAL REQUIRED	340	0.3"	102.0"	
TOTAL PROVIDED			130"	STAIR 4 @ 76" WIDE STAIR 5 @ 54" WIDE

CAPACITY OF EXIT DOORS

BC 1005.1

SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	DOOR NUMBERS
STAIR 5	170	0.2"	34.0"	DOOR SC05 TYP.J 35.5"CL.
STAIR 4	170	0.2"	34.0"	DOOR SC04 TYP.K 67"CL.
TOTAL REQUIRED	340	0.2"	68.0"	
TOTAL PROVIDED				102.5"

SEE SCHEDULE BELOW FOR DOOR TYPE DESCRIPTION
* DOORS IN SERIES

EXIT ACCESS TRAVEL DISTANCE

BC 1013.3, 1015.1
BC 1024.7

ROUTE	TOTAL DIST.	MAXIMUM PERMITTED DISTANCE	COMMON PATH	NOTES
EA00-1-P	92' 0"	150'	0'0"	COMPLIES
EA00-1-S	118' 4"	250'	0'0"	COMPLIES
EA00-2-P	70' 8"	200'	30'0"	COMPLIES

DOOR TYPE SCHEDULE

KEY	W X H	EGRESS WIDTH	FIRE RATING	NOTES
A	3'0" X 6'8"	33.5"	90 MIN	HOLLOW METAL F.P.S.C.
B	6'0" X 6'8"	67"	90 MIN	HOLLOW METAL F.P.S.C.
C	6'0" X 8'4"	67"	NR	ENTRY S.C.
D	6'0" X 8'4"	67"	20 MIN	VESTIBULE S.C.
E	3'0" X 6'8"	33.5"	90 MIN	H.M. F.P.S.C. W/ VISION PANEL
F	5'0" X 6'8"	56"	90 MIN	HOLLOW METAL F.P.S.C.
G	5'8" X 10'-6"	64"	45 MIN	WOOD F.P.S.C.
H	3'0" X 6'8"	33.5"	45 MIN	HOLLOW METAL F.P.S.C.
J	3'2" X 6'8"	35.5"	45 MIN	HOLLOW METAL F.P.S.C.
K	6'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
L	3'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
M	6'0" X 6'8"	67"	45 MIN	HOLLOW METAL F.P.S.C.

LEGEND

WALL CONSTRUCTION

- 2HR RATED ENCLOSURE
- 1HR RATED ENCLOSURE
- UNRATED ENCLOSURE
- EXISTING 2HR ENCLOSURE
- EXISTING 1 HR ENCLOSURE
- EXISTING ENCLOSURE
- AREA OF NO WORK

MEANS OF EGRESS

- TRAVEL DISTANCE
- REMOTE LOCATION

GENERAL

ROOM NAME
101 SF
USE #

- ROOM NUMBER
- AREA
- NO. OF PERSONS
- OCCUPANCY GROUP
- ILLUMINATED EXIT SIGN
- ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROW
- 1A3-Q PARTITION TYPE
- HOURLY RATING

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

08.06.14		DOB New Building Permit Set
05.10.13		DOB Zoning & Egress
Date:	No.:	Description:

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
SUBCELLAR BANQUET ROOM ZONING & EGRESS PLAN

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated

Signature & Seal:
REGISTERED ARCHITECT DONALD Q. WHITE 14173 STATE OF NEW YORK

Sheet Number:
A.099.00

NYC DOB Number: 121328919
Sheet: 13 of 81

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Opp. Ex. 1001 Page 13 of 205

DEPT OF BLDGS 121328919 Job Number

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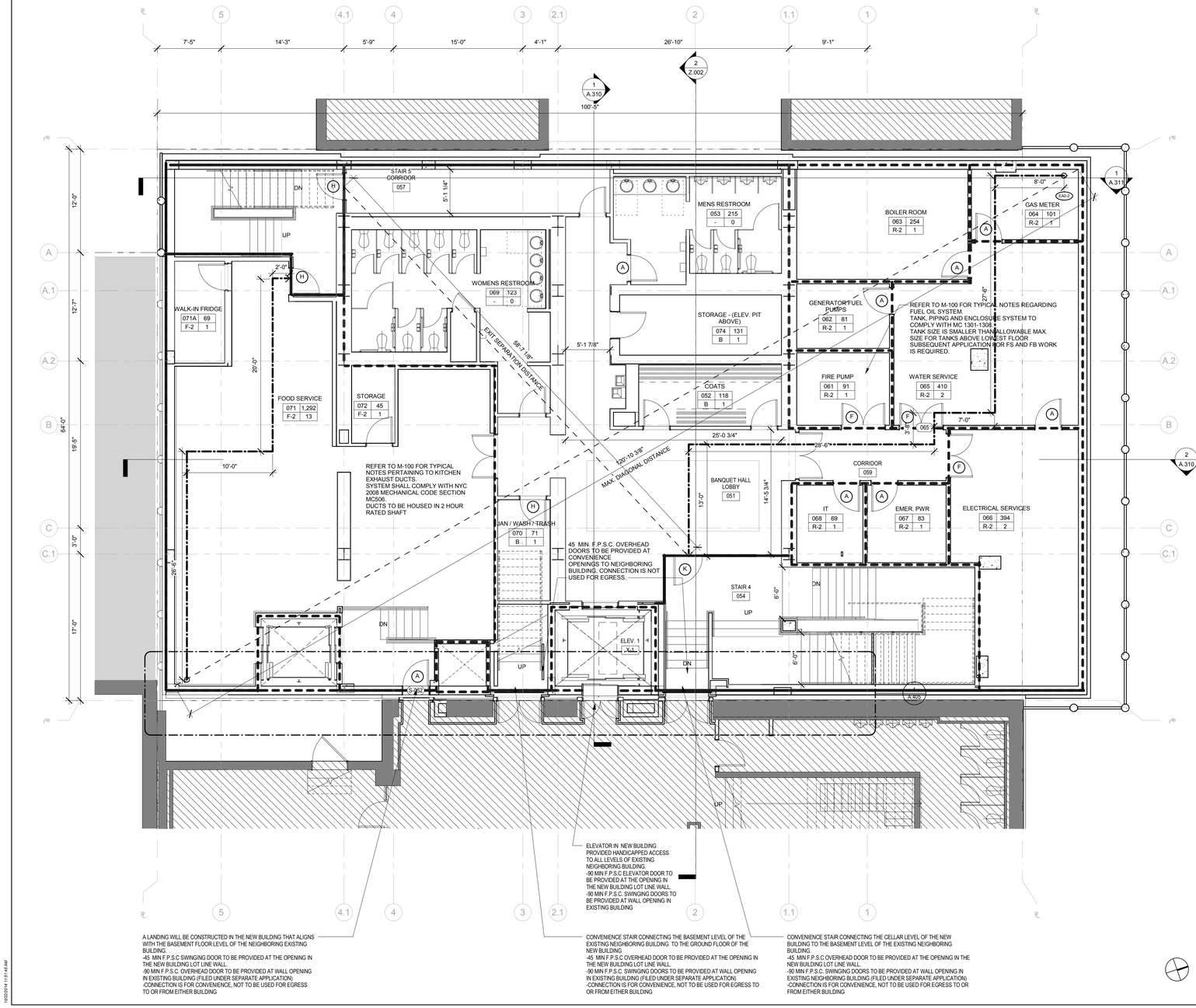

RESTROOM FIXTURES — TABLE PC 403.1

SPACE SERVED	NO. OF OCCUPANTS M/W	W/C REQUIRED PER OCC. M / W	LAV.S REQUIRED PER OCC. M / W	W/C REQUIRED TOTAL M / W	LAV.S REQUIRED TOTAL M / W
GROUND FL. A-3	171 / 171	1:70 /1:35	1:200 /1:200	2.44 / 4.88	0.86 / 0.86
CELLAR F-2	14 / 14	1:100 /1:100	1:100 /1:100	0.14 / 0.14	0.14 / 0.14
SUBCELLAR A-2	170 / 170	1:75 /1:200	1:75 /1:200	2.27 / 2.27	0.85 / 0.85
TOTAL REQUIRED				4.85 / 7.29	1.85 / 1.85
TOTAL FOR 3 LEVELS PROVIDED@ CELLAR				6.0 / 8.0	3.0 / 4.0

TWO WATER FOUNTAINS ARE PROVIDED (ADEQUATE FOR 1000 OCC.)

CAPACITY OF EXIT STAIRS — BC 1005.1

SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	PROVIDED WIDTH
50% OF FLOOR	14	0.3"	3.9"	
50% OF FLOOR	14	0.3"	3.9"	
TOTAL REQUIRED	28	0.3"	8.4"	
TOTAL PROVIDED			130"	STAIR 4 @ 76" WIDE STAIR 5 @ 54" WIDE

CAPACITY OF EXIT DOORS — BC 1005.1

SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	DOOR NUMBERS
STAIR 5	14	0.2"	2.6"	DOOR C54 TYP.A 33.5"CL.
STAIR 4	14	0.2"	2.6"	DOOR C55 TYP.A 33.5"CL.
TOTAL REQUIRED	28	0.2"	5.6"	
TOTAL PROVIDED				67"

SEE SCHEDULE BELOW FOR DOOR TYPE DESCRIPTION * DOORS IN SERIES

EXIT ACCESS TRAVEL DISTANCE — BC 1013.3, 1015.1 BC 1024.7

ROUTE	TOTAL DISTANCE	MAXIMUM PERMITTED DISTANCE	COMMON PATH	NOTES
EA0-1	87' 8"	150'	74' 8"	COMPLIES
EA0-2	58' 6"	250'	26' 6"	COMPLIES

DOOR TYPE SCHEDULE

KEY	W X H	EGRESS WIDTH	FIRE RATING	NOTES
A	3'0" X 6'8"	33.5"	90 MIN	HOLLOW METAL F.P.S.C.
B	6'0" X 6'8"	67"	90 MIN	HOLLOW METAL F.P.S.C.
C	6'0" X 8'4"	67"	NR	ENTRY S.C.
D	6'0" X 8'4"	67"	20 MIN	VESTIBULE S.C.
E	3'0" X 6'8"	33.5"	90 MIN	H.M. F.P.S.C. W/ VISION PANEL
F	5'0" X 6'8"	56"	90 MIN	HOLLOW METAL F.P.S.C.
G	5'8" X 10'-6"	64"	45 MIN	WOOD F.P.S.C.
H	3'0" X 6'8"	33.5"	45 MIN	HOLLOW METAL F.P.S.C.
J	3'2" X 6'8"	35.5"	45 MIN	HOLLOW METAL F.P.S.C.
K	6'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
L	3'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
M	6'0" X 6'8"	67"	45 MIN	HOLLOW METAL F.P.S.C.

LEGEND

WALL CONSTRUCTION

- 2HR RATED ENCLOSURE
- 1HR RATED ENCLOSURE
- UNRATED ENCLOSURE
- EXISTING 2HR ENCLOSURE
- EXISTING 1 HR ENCLOSURE
- EXISTING ENCLOSURE
- AREA OF NO WORK

MEANS OF EGRESS

- TRAVEL DISTANCE
- REMOTE LOCATION

GENERAL

ROOM NAME
101 | SF
USE | #

- ROOM NUMBER
- AREA
- NO. OF PERSONS
- OCCUPANCY GROUP
- ILLUMINATED EXIT SIGN
- ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROW
- PARTITION TYPE
- HOURLY RATING

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Buildings
APPROVED
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Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
10.21.14		DOB New Building Permit Set
05.10.13		DOB Zoning & Egress

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
CELLAR ZONING & EGRESS PLAN

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated

Signature & Seal:
REGISTERED ARCHITECT SAMUEL G WHITE NO. 14175 STATE OF NEW YORK

Sheet Number:
A.100.00

NYC DOB Number: 121328919
Sheet: 14 of 81

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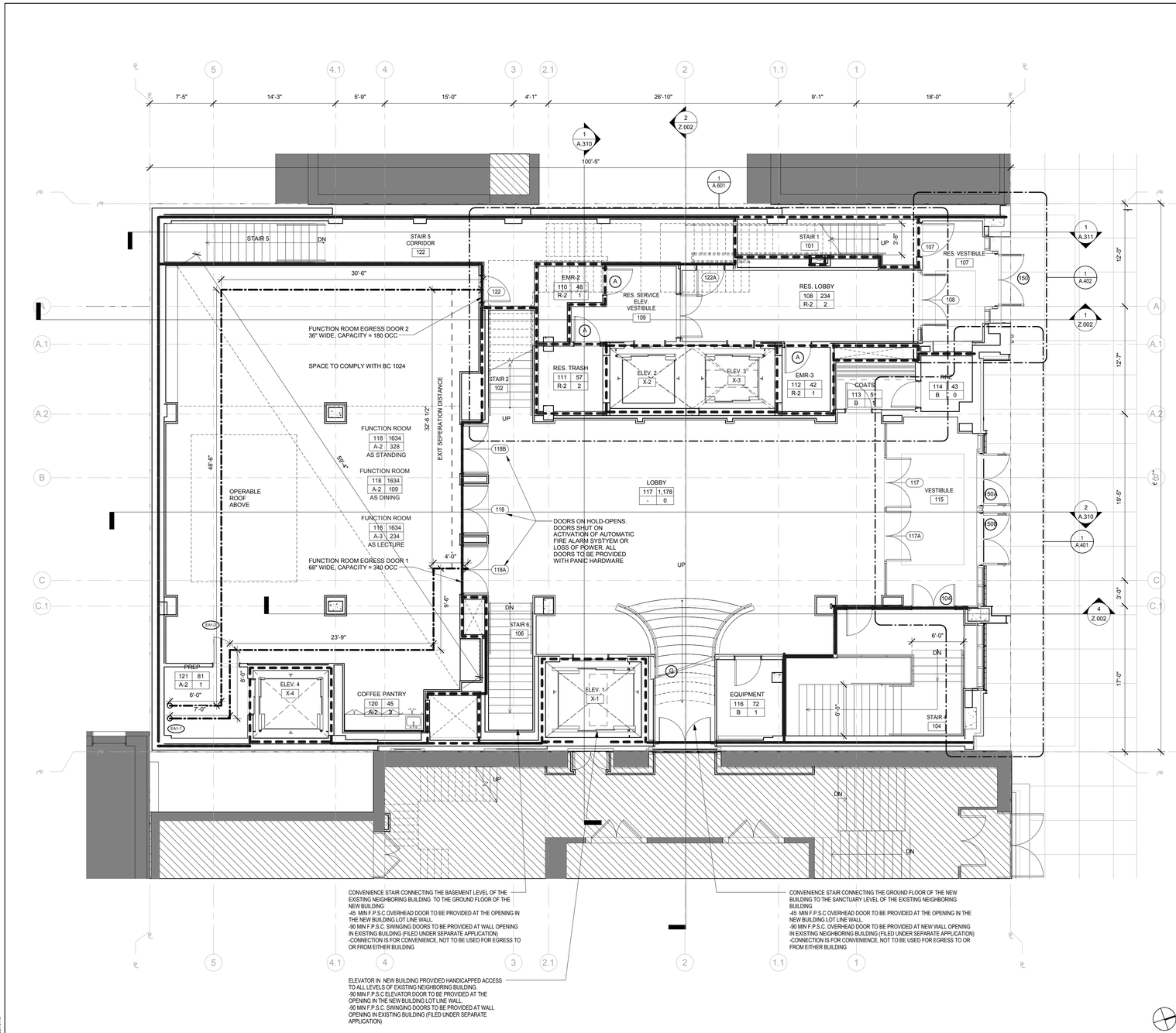

PLUMBING FIXTURES

PC 403.1, 403.6

PER NYC PLUMBING CODE 403.6, RESTROOM FACILITIES ARE PROVIDED ONE FLOOR BELOW. SEE SHEET A.100 FOR CALCULATIONS.

CAPACITY OF EXIT STAIRS

BC 1005.1

SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	PROVIDED WIDTH
50% FL. 2	119	0.3"	**35.7"**	**STAIR 1 44" WIDE**
50% FL. 2	119	0.3"	**35.7"**	**STAIR 2 44" WIDE**
50% FL. 00	170	0.3"	**51.0"**	**STAIR 4 76" WIDE**
50% FL. 00	170	0.3"	**51.0"**	**STAIR 5 54" WIDE**
TOTAL REQUIRED	578	0.3"	**173.4"**	
TOTAL PROVIDED				**218.0"**

CAPACITY OF EXIT DOORS

BC 1005.1

	SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	DOOR NUMBERS
RESIDENTIAL LOBBY	50% OF COMMONS	164	0.2"	32.8"	DOOR 122 TYP. H 33.5" CL.
	STAIR 5	170	0.2"	34.0"	DOOR 122A TYP. J 35.5" CL.
	STAIR 5 + RES. LOBBY	170 +6	0.2"	35.2"	DOOR 108 TYP. D 67" CL.
	STAIR 1	119	0.2"	23.8"	DOOR 107 TYP. A 33.5" CL.
	STAIR 5 + RES. LOBBY + STAIR 1	170 6 119 **295**	0.2"	**59.0"**	**DOOR 150 TYPE C 67" CL.**
COMMUNITY FACILITY LOBBY	50% OF COMMONS	164	0.2"	32.8"	DOOR 118A TYP. G 67" CL.
	50% OF COMMONS + STAIR 1 + MISC. LOBBY	164 119 2 285	0.2"	57.0"	DOORS 117 + 117A TYP. C 134" CL. TOTAL
	STAIR 4	170	0.2"	34.0"	DOOR 104 TYPE C 67" CL.
	50% OF COMMONS + STAIR 1 + STAIR 4 + MISC. LOBBY	164 119 170 2 **455**	0.2"	91.0	DOORS 150A + 150B TYP. C 134" CL. TOTAL
STREET DOORS	**TOTAL REQUIRED**	295 455 **750**	0.2"	**150.0"**	
	TOTAL PROVIDED			**201.0"**	DOORS 150+150A+150B TYPE C

SEE SCHEDULE BELOW FOR DOOR TYPE DESCRIPTION * DOORS IN SERIES

EXIT ACCESS TRAVEL DISTANCE

BC 1013.3 BC 1015.1

ROUTE	TOTAL DIST.	MAXIMUM PERMITTED DISTANCE	COMMON PATH	NOTES
EA1-1	52' 3"	200'	15' 0"	COMPLIES
EA1-2	85' 6"	200'	12' 6"	COMPLIES

DOOR TYPE SCHEDULE

KEY	W X H	EGRESS WIDTH	FIRE RATING	NOTES
A	3'0" X 6'8"	33.5"	90 MIN	HOLLOW METAL F.P.S.C.
B	6'0" X 6'8"	67"	90 MIN	HOLLOW METAL F.P.S.C.
C	6'0" X 8'4"	67"	NR	ENTRY S.C.
D	6'0" X 8'4"	67"	20 MIN	VESTIBULE S.C.
E	3'0" X 6'8"	33.5"	90 MIN	H.M. F.P.S.C. W/ VISION PANEL
F	5'0" X 6'8"	56"	90 MIN	HOLLOW METAL F.P.S.C.
G	5'8" X 10'-6"	64"	45 MIN	WOOD F.P.S.C.
H	3'0" X 6'8"	33.5"	45 MIN	HOLLOW METAL F.P.S.C.
J	3'2" X 6'8"	35.5"	45 MIN	HOLLOW METAL F.P.S.C.
K	6'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
L	3'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
M	6'0" X 6'8"	67"	45 MIN	HOLLOW METAL F.P.S.C.

LEGEND

WALL CONSTRUCTION

- 2HR RATED ENCLOSURE
- 1HR RATED ENCLOSURE
- UNRATED ENCLOSURE
- EXISTING 2HR ENCLOSURE
- EXISTING 1 HR ENCLOSURE
- EXISTING ENCLOSURE
- AREA OF NO WORK

MEANS OF EGRESS

- TRAVEL DISTANCE
- REMOTE LOCATION

GENERAL

ROOM NAME
101 | SF
USE | #

- ROOM NUMBER
- AREA
- NO. OF PERSONS
- OCCUPANCY GROUP
- ILLUMINATED EXIT SIGN
- ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROW
- 1A3-0 PARTITION TYPE
- HOURLY RATING

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

08.06.14		DOB New Building Permit Set
05.10.13		DOB Zoning & Egress
Date:	*No.:*	*Description:*

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
GROUND FLOOR ZONING & EGRESS PLAN

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated
Signature & Seal: REGISTERED ARCHITECT MICHAEL G. WHITE NO. 14175 STATE OF NEW YORK

Sheet Number: A.101.00

NYC DOB Number: 121328919
Sheet: 15 of 81

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Opp. Ex. 1001 Page 15 of 205

DEPT OF BLDGS 121328919 Job Number

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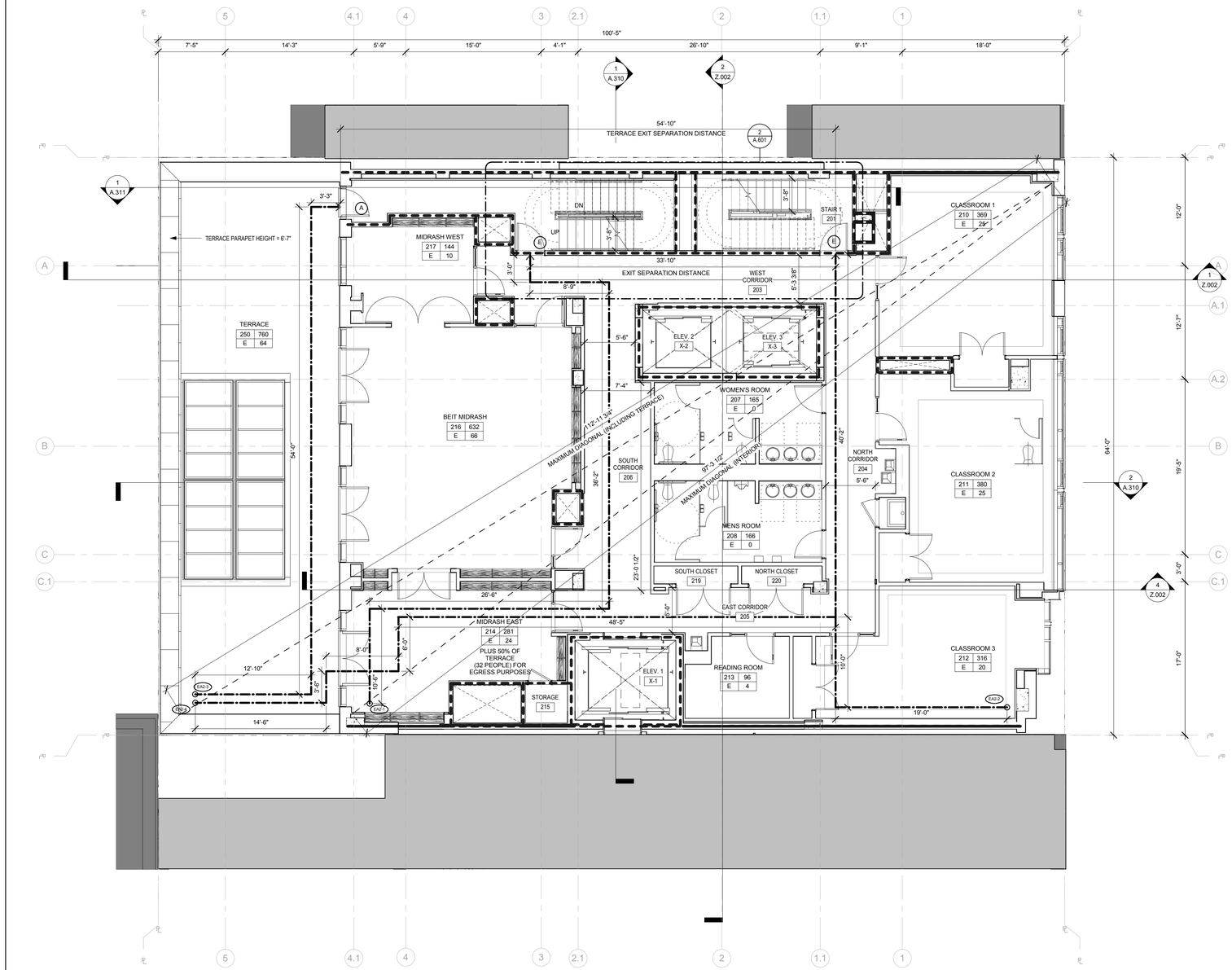

RESTROOM FIXTURES

TABLE PC 403.1

SPACE SERVED	NO. OF OCCUPANTS MEN/WOMEN	WC REQUIRED PER OCC. M / W	LAV.S REQUIRED PER OCC. M / W	WC REQUIRED TOTAL M / W	LAV.S REQUIRED TOTAL M / W
FLOOR 4 E	119 / 119	1:50 /1:50	1:50 /1:50	2.38/2.38	2.38/2.38
TOTAL REQUIRED				2.38/2.38	2.38/2.38
TOTAL PROVIDED				3 / 3	3 / 3

THREE WATER FOUNTAINS PROVIDED - (ADEQUATE FOR 300 OCC.)

CAPACITY OF EXIT STAIRS

BC 1005.1

SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	PROVIDED WIDTH
50% OF FLOOR	119	0.3"	35.7"	
50% OF FLOOR	119	0.3"	35.7"	
TOTAL REQUIRED	238	0.3"	71.4"	
TOTAL PROVIDED			88"	STAIR 1 @ 44" WIDE STAIR 2 @ 44" WIDE

CAPACITY OF EXIT DOORS

BC 1005.1

SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	DOOR NUMBERS
STAIR 1	103	0.2"	20.6"	DOOR 251 TYP.A 33.5"CL.
STAIR 2	103	0.2"	20.6"	DOOR 252 TYP.A 33.5"CL.
TERRACE	32	0.2"	6.4"	DOOR 253 TYP.A 33.5"CL.
TOTAL REQUIRED	238	0.2"	47.6"	
TOTAL PROVIDED				100.5"

SEE SCHEDULE BELOW FOR DOOR TYPE DESCRIPTION
* DOORS IN SERIES

EXIT ACCESS TRAVEL DISTANCE

BC 1013.3
BC 1015.1

ROUTE	TOTAL DIST.	MAXIMUM PERMITTED DISTANCE	COMMON PATH	NOTES
EA2-1	84' 11"	200'	37' 0"	COMPLIES
EA2-2	69' 2"	200'	29' 0"	COMPLIES
EA2-3	70' 1"	200'	0' 0"	COMPLIES
EA2-4	120' 7"	200'	0' 0"	COMPLIES

DOOR TYPE SCHEDULE

KEY	W X H	EGRESS WIDTH	FIRE RATING	NOTES
A	3'0" X 6'8"	33.5"	90 MIN	HOLLOW METAL F.P.S.C.
B	6'0" X 6'8"	67"	90 MIN	HOLLOW METAL F.P.S.C.
C	6'0" X 8'4"	67"	NR	ENTRY S.C.
D	6'0" X 8'4"	67"	20 MIN	VESTIBULE S.C.
E	3'0" X 6'8"	33.5"	90 MIN	H.M. F.P.S.C. W/ VISION PANEL
F	5'0" X 6'8"	56"	90 MIN	HOLLOW METAL F.P.S.C.
G	5'8" X 10'-6"	64"	45 MIN	WOOD F.P.S.C.
H	3'0" X 6'8"	33.5"	45 MIN	HOLLOW METAL F.P.S.C.
J	3'2" X 6'8"	35.5"	45 MIN	HOLLOW METAL F.P.S.C.
K	6'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
L	3'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
M	6'0" X 6'8"	67"	45 MIN	HOLLOW METAL F.P.S.C.

LEGEND

WALL CONSTRUCTION

- 2HR RATED ENCLOSURE
- 1HR RATED ENCLOSURE
- UNRATED ENCLOSURE
- EXISTING 2HR ENCLOSURE
- EXISTING 1 HR ENCLOSURE
- EXISTING ENCLOSURE
- AREA OF NO WORK

MEANS OF EGRESS

- TRAVEL DISTANCE
- REMOTE LOCATION

GENERAL

- ROOM NAME / 101 SF / USE # — ROOM NUMBER, AREA, NO. OF PERSONS, OCCUPANCY GROUP
- ILLUMINATED EXIT SIGN
- ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROW
- 1A3-0 — PARTITION TYPE, HOURLY RATING

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
05.10.13		DOB Zoning & Egress

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
SECOND FLOOR ZONING & EGRESS PLAN

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated

Signature & Seal:
REGISTERED ARCHITECT — DONALD G. DOVELL — 014179 — STATE OF NEW YORK

Sheet Number:
A.102.00

NYC DOB Number: 121328919
Sheet: 16 of 81

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DEPT OF BLDGS121328919 Job Number

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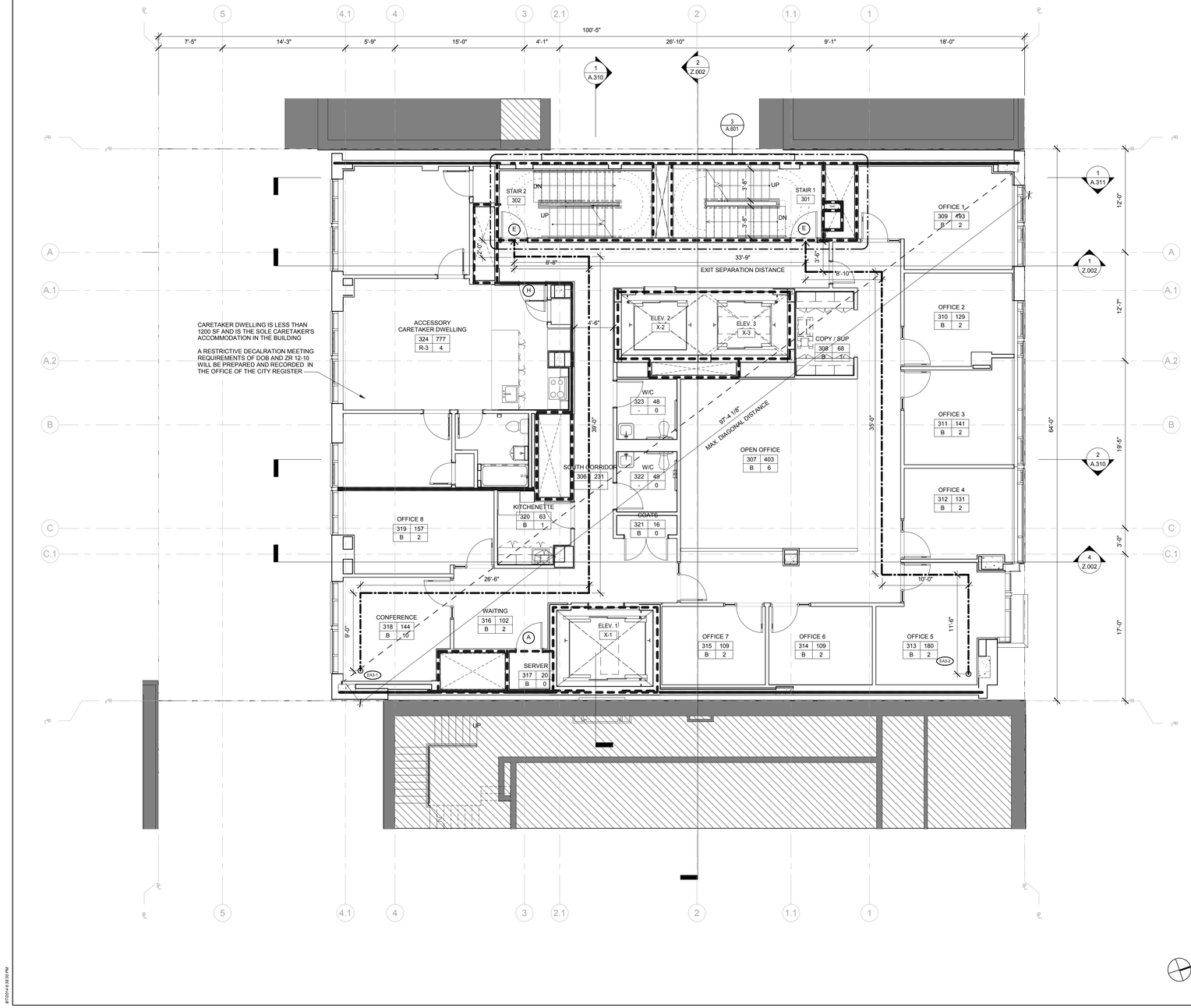

RESTROOM FIXTURES

TABLE PC 403.1

SPACE SERVED	NO. OF OCCUPANTS MEN/WOMEN	W/C REQUIRED PER OCC. M / W	LAV.S REQUIRED PER OCC. M / W	W/C REQUIRED TOTAL M / W	LAV.S REQUIRED TOTAL M / W
FLOOR 4 B	18 / 18	1:20 /1:20	1:25 /1:25	1 / 1	1 / 1
TOTAL REQUIRED				1 / 1	1 / 1
TOTAL PROVIDED				1 / 1	1 / 1

NOTE: FIXTURE CALCULATIONS DO NOT INCLUDE OCCUPANTS OF SUPERINTENDANT QUARTERS

CAPACITY OF EXIT STAIRS

BC 1005.1

SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	PROVIDED WIDTH
50% OF FLOOR	20	0.3"	6.0"	
50% OF FLOOR	20	0.3"	6.0"	
TOTAL REQUIRED	40	0.3"	12.0"	
TOTAL PROVIDED			88"	STAIR 1 @ 44" WIDE STAIR 2 @ 44" WIDE

CAPACITY OF EXIT DOORS

BC 1005.1

SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	DOOR NUMBERS
STAIR 1	20	0.2"	4.0"	DOOR 351 TYP.A 33.5"CLR.
STAIR 2	20	0.2"	4.0"	DOOR 352 TYP.A 33.5"CLR.
TOTAL REQUIRED	40	0.2"	8.0"	
TOTAL PROVIDED				67"

SEE SCHEDULE BELOW FOR DOOR TYPE DESCRIPTION
* DOORS IN SERIES

EXIT ACCESS TRAVEL DISTANCE

BC 1013.3
BC 1015.1

ROUTE	TOTAL DIST.	MAXIMUM PERMITTED DISTANCE	COMMON PATH	NOTES
EA3-1	85' 2"	300'	74' 0"	COMPLIES
EA3-2	68' 10"	300'	21' 6"	COMPLIES

DOOR TYPE SCHEDULE

KEY	W X H	EGRESS WIDTH	FIRE RATING	NOTES
A	3'0" X 6'8"	33.5"	90 MIN	HOLLOW METAL F.P.S.C.
B	6'0" X 6'8"	67"	90 MIN	HOLLOW METAL F.P.S.C.
C	6'0" X 8'4"	67"	NR	ENTRY S.C.
D	6'0" X 8'4"	67"	20 MIN	VESTIBULE S.C.
E	3'0" X 6'8"	33.5"	90 MIN	H.M. F.P.S.C. W/ VISION PANEL
F	5'0" X 6'8"	56"	90 MIN	HOLLOW METAL F.P.S.C.
G	5'8" X 10'-6"	64"	45 MIN	WOOD F.P.S.C.
H	3'0" X 6'8"	33.5"	45 MIN	HOLLOW METAL F.P.S.C.
J	3'2" X 6'8"	35.5"	45 MIN	HOLLOW METAL F.P.S.C.
K	6'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
L	3'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
M	6'0" X 6'8"	67"	45 MIN	HOLLOW METAL F.P.S.C.

LEGEND

WALL CONSTRUCTION

- 2HR RATED ENCLOSURE
- 1HR RATED ENCLOSURE
- UNRATED ENCLOSURE
- EXISTING 2HR ENCLOSURE
- EXISTING 1 HR ENCLOSURE
- EXISTING ENCLOSURE
- AREA OF NO WORK

MEANS OF EGRESS

- TRAVEL DISTANCE
- REMOTE LOCATION

GENERAL

ROOM NAME
101 SF
USE #

- ROOM NUMBER
- AREA
- NO. OF PERSONS
- OCCUPANCY GROUP
- ILLUMINATED EXIT SIGN
- ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROW
- PARTITION TYPE
- HOURLY RATING

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
05.10.13		DOB Zoning & Egress

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
THIRD FLOOR ZONING & EGRESS PLAN

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated

Signature & Seal:
REGISTERED ARCHITECT SAMUEL G WHITE 14175 STATE OF NEW YORK

Sheet Number:
A.103.00

NYC DOB Number: 121328919
Sheet: 17 of 81

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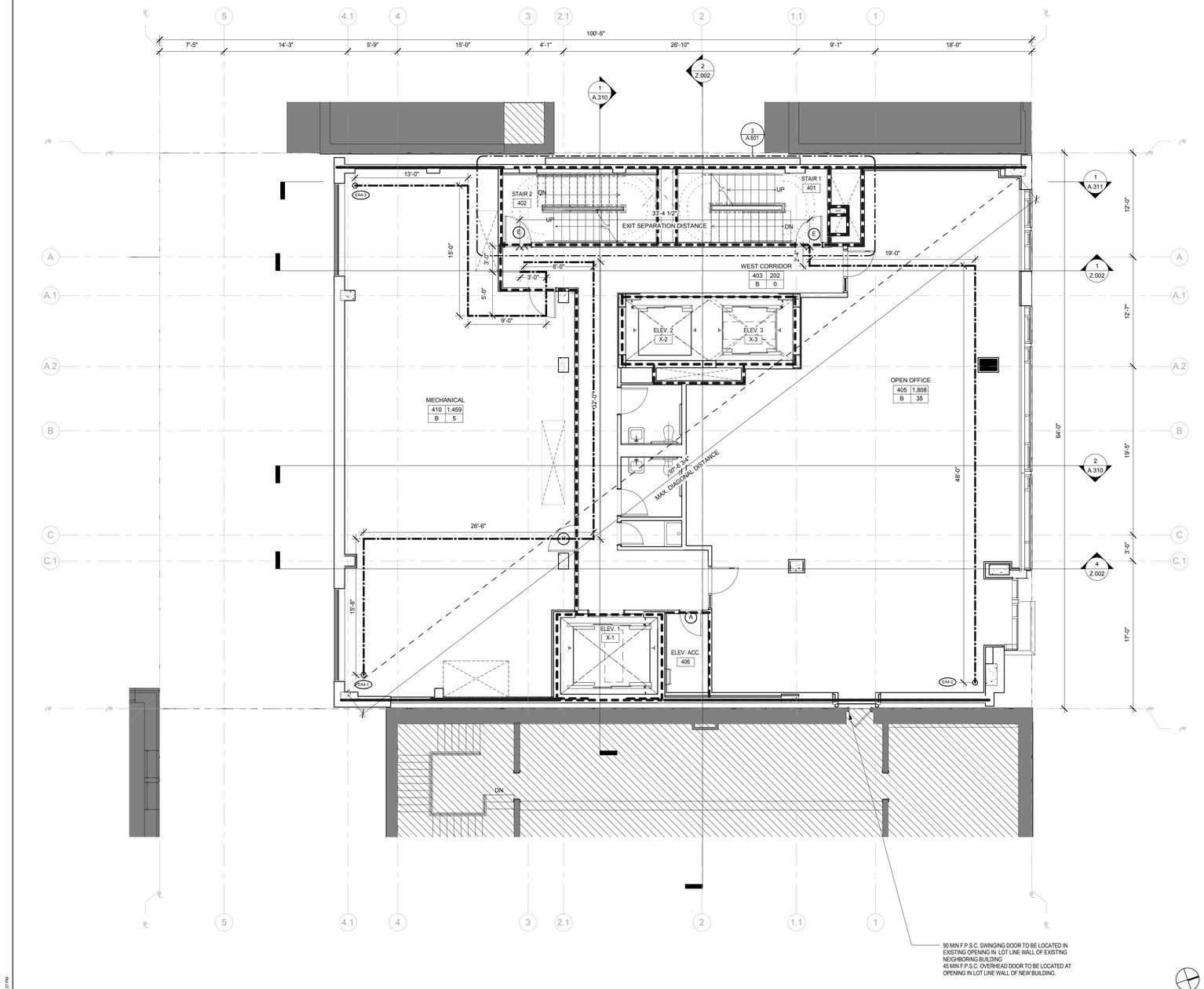

RESTROOM FIXTURES

TABLE PC 403.1

SPACE SERVED	NO. OF OCCUPANTS MEN/WOMEN	W/C REQUIRED PER OCC. M / W	LAV.S REQUIRED PER OCC. M / W	W/C REQUIRED TOTAL M / W	LAV.S REQUIRED TOTAL M / W
FLOOR 4 B	20 / 20	1:20 /1:20	1:25 /1:25	1 / 1	1 / 1
TOTAL REQUIRED				1 / 1	1 / 1
TOTAL PROVIDED				1 / 1	1 / 1

CAPACITY OF EXIT STAIRS

BC 1005.1

SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	PROVIDED WIDTH
50% OF FLOOR	20	0.3"	6.0"	
50% OF FLOOR	20	0.3"	6.0"	
TOTAL REQUIRED	40	0.3"	12.0"	
TOTAL PROVIDED			88"	STAIR 1 @ 44" WIDE
				STAIR 2 @ 44" WIDE

CAPACITY OF EXIT DOORS

BC 1005.1

SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	DOOR NUMBERS
STAIR 1	20	0.2"	8.0"	DOOR 451 TYP.A 33.5" CL
STAIR 2	20	0.2"	8.0"	DOOR 452 TYP.A 33.5" CL
TOTAL REQUIRED	40	0.2"	16.0"	
TOTAL PROVIDED				67"

SEE SCHEDULE BELOW FOR DOOR TYPE DESCRIPTION
* DOORS IN SERIES

EXIT ACCESS TRAVEL DISTANCE

BC 1013.3
BC 1015.1

ROUTE	TOTAL DIST.	MAXIMUM PERMITTED DISTANCE	COMMON PATH	NOTES
EA4-1	84' 2"	200'	74' 0"	COMPLIES
EA4-2	69' 4"	300'	0' 0"	COMPLIES
EA4-3	48' 0"	200'	44' 7"	COMPLIES

DOOR TYPE SCHEDULE

KEY	W X H	EGRESS WIDTH	FIRE RATING	NOTES
A	3'0" X 6'8"	33.5"	90 MIN	HOLLOW METAL F.P.S.C.
B	6'0" X 6'8"	67"	90 MIN	HOLLOW METAL F.P.S.C.
C	6'0" X 8'4"	67"	NR	ENTRY S.C.
D	6'0" X 8'4"	67"	20 MIN	VESTIBULE S.C.
E	3'0" X 6'8"	33.5"	90 MIN	H.M. F.P.S.C. W/ VISION PANEL
F	5'0" X 6'8"	56"	90 MIN	HOLLOW METAL F.P.S.C.
G	5'8" X 10'-6"	64"	45 MIN	WOOD F.P.S.C.
H	3'0" X 6'8"	33.5"	45 MIN	HOLLOW METAL F.P.S.C.
J	3'2" X 6'8"	35.5"	45 MIN	HOLLOW METAL F.P.S.C.
K	6'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
L	3'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
M	6'0" X 6'8"	67"	45 MIN	HOLLOW METAL F.P.S.C.

LEGEND

WALL CONSTRUCTION

- 2HR RATED ENCLOSURE
- 1HR RATED ENCLOSURE
- UNRATED ENCLOSURE
- EXISTING 2HR ENCLOSURE
- EXISTING 1 HR ENCLOSURE
- EXISTING ENCLOSURE
- AREA OF NO WORK

MEANS OF EGRESS

- TRAVEL DISTANCE
- REMOTE LOCATION

GENERAL

ROOM NAME
101 | SF
USE | #

- ROOM NUMBER
- AREA
- NO. OF PERSONS
- OCCUPANCY GROUP
- ILLUMINATED EXIT SIGN
- ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROW
- PARTITION TYPE
- 1A3-0 HOURLY RATING

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NYC Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
05.10.13		DOB Zoning & Egress

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
FOURTH FLOOR ZONING & EGRESS PLAN

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated
Sheet Number: A.104.00

Signature & Seal:
REGISTERED ARCHITECT DANIEL G. BYARD NO. 14175 STATE OF NEW YORK

NYC DOB Number: 121328919
Sheet: 18 of 81

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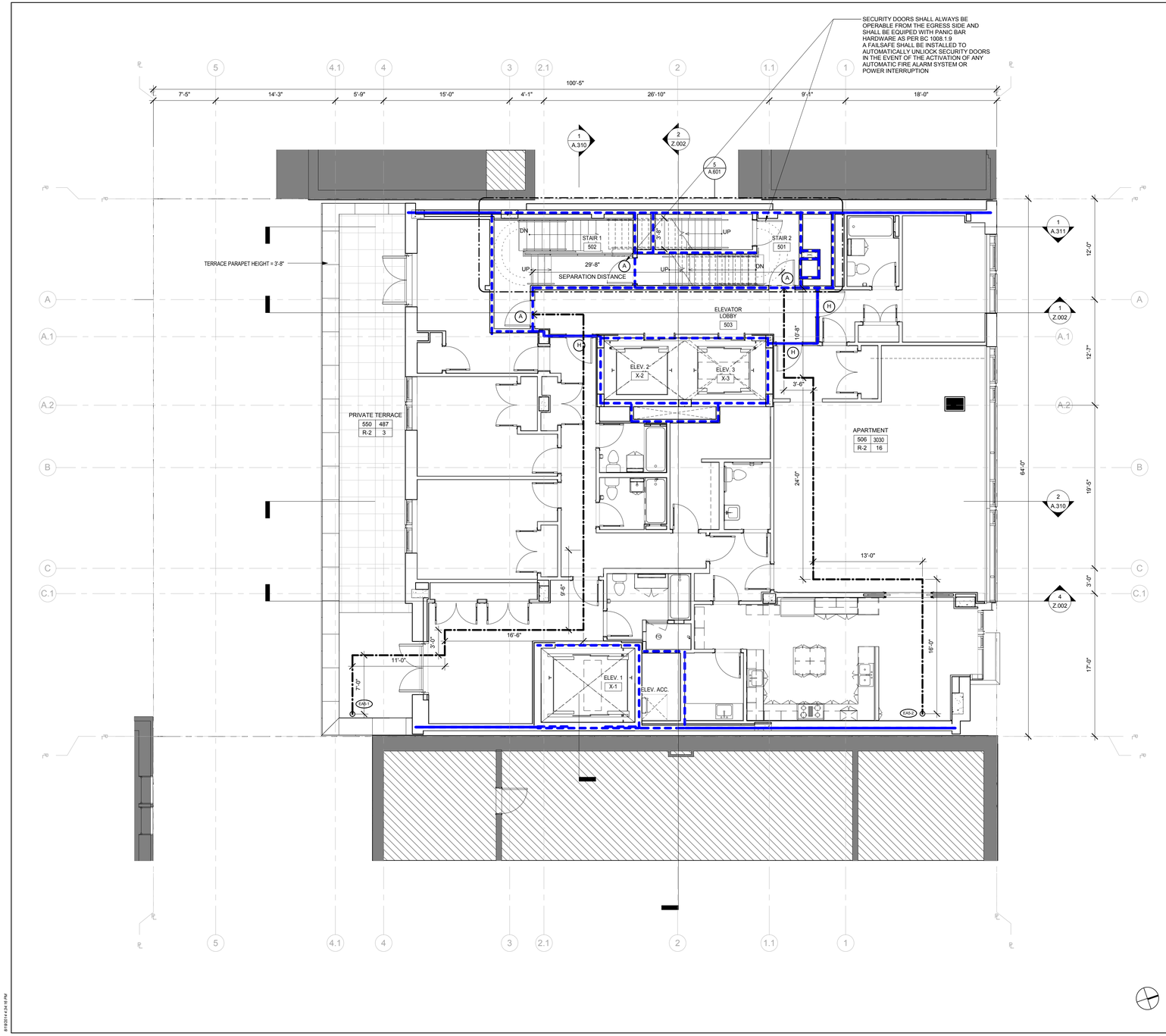

CAPACITY OF EXIT STAIRS — BC 1005.1

SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	PROVIDED WIDTH
50% OF FLOOR	9	0.3"	2.7"	
50% OF FLOOR	10	0.3"	3.0"	
TOTAL REQUIRED	19	0.3"	5.7"	
TOTAL PROVIDED			88"	STAIR 1 @ 44" WIDE STAIR 2 @ 44" WIDE

CAPACITY OF EXIT DOORS — BC 1005.1

SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	DOOR NUMBERS
STAIR 1	9	0.2"	1.8"	DOOR 551 TYP A 33.5" CL.
STAIR 2	10	0.2"	2.0"	DOOR 552 TYP A 33.5" CL.
TOTAL REQUIRED	19	0.2"	3.8"	
TOTAL PROVIDED				67"

SEE SCHEDULE BELOW FOR DOOR TYPE DESCRIPTION
* DOORS IN SERIES

EXIT ACCESS TRAVEL DISTANCE — BC 1013.3, BC 1015.1

ROUTE	TOTAL DIST.	MAXIMUM PERMITTED DISTANCE	COMMON PATH	NOTES
EA5-1	81'0"	200'	44' 0"	COMPLIES
EA5-2	67' 2"	200'	10' 0"	COMPLIES

DOOR TYPE SCHEDULE

KEY	W X H	EGRESS WIDTH	FIRE RATING	NOTES
A	3'0" X 6'8"	33.5"	90 MIN	HOLLOW METAL F.P.S.C.
B	6'0" X 6'8"	67"	90 MIN	HOLLOW METAL F.P.S.C.
C	6'0" X 8'4"	67"	NR	ENTRY S.C.
D	6'0" X 8'4"	67"	20 MIN	VESTIBULE S.C.
E	3'0" X 6'8"	33.5"	90 MIN	H.M. F.P.S.C. W/ VISION PANEL
F	5'0" X 6'8"	56"	90 MIN	HOLLOW METAL F.P.S.C.
G	5'8" X 10'-6"	64"	45 MIN	WOOD F.P.S.C.
H	3'0" X 6'8"	33.5"	45 MIN	HOLLOW METAL F.P.S.C.
J	3'2" X 6'8"	35.5"	45 MIN	HOLLOW METAL F.P.S.C.
K	6'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
L	3'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
M	6'0" X 6'8"	67"	45 MIN	HOLLOW METAL F.P.S.C.

LEGEND

WALL CONSTRUCTION

- 2HR RATED ENCLOSURE
- 1HR RATED ENCLOSURE
- UNRATED ENCLOSURE
- EXISTING 2HR ENCLOSURE
- EXISTING 1 HR ENCLOSURE
- EXISTING ENCLOSURE
- AREA OF NO WORK

MEANS OF EGRESS

- TRAVEL DISTANCE
- REMOTE LOCATION

GENERAL

ROOM NAME
101 SF
USE #
- ROOM NUMBER
- AREA
- NO. OF PERSONS
- OCCUPANCY GROUP

- ILLUMINATED EXIT SIGN
- ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROW
- PARTITION TYPE (1A3-0)
- HOURLY RATING

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Shaugat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
05.10.13		DOB Zoning & Egress

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
FIFTH FLOOR ZONING & EGRESS PLAN

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated

Signature & Seal:
REGISTERED ARCHITECT
SHAUGAT G. SHAIKH
014777
STATE OF NEW YORK

Sheet Number:
A.105.00

NYC DOB Number: 121328919
Sheet: 19 of 81

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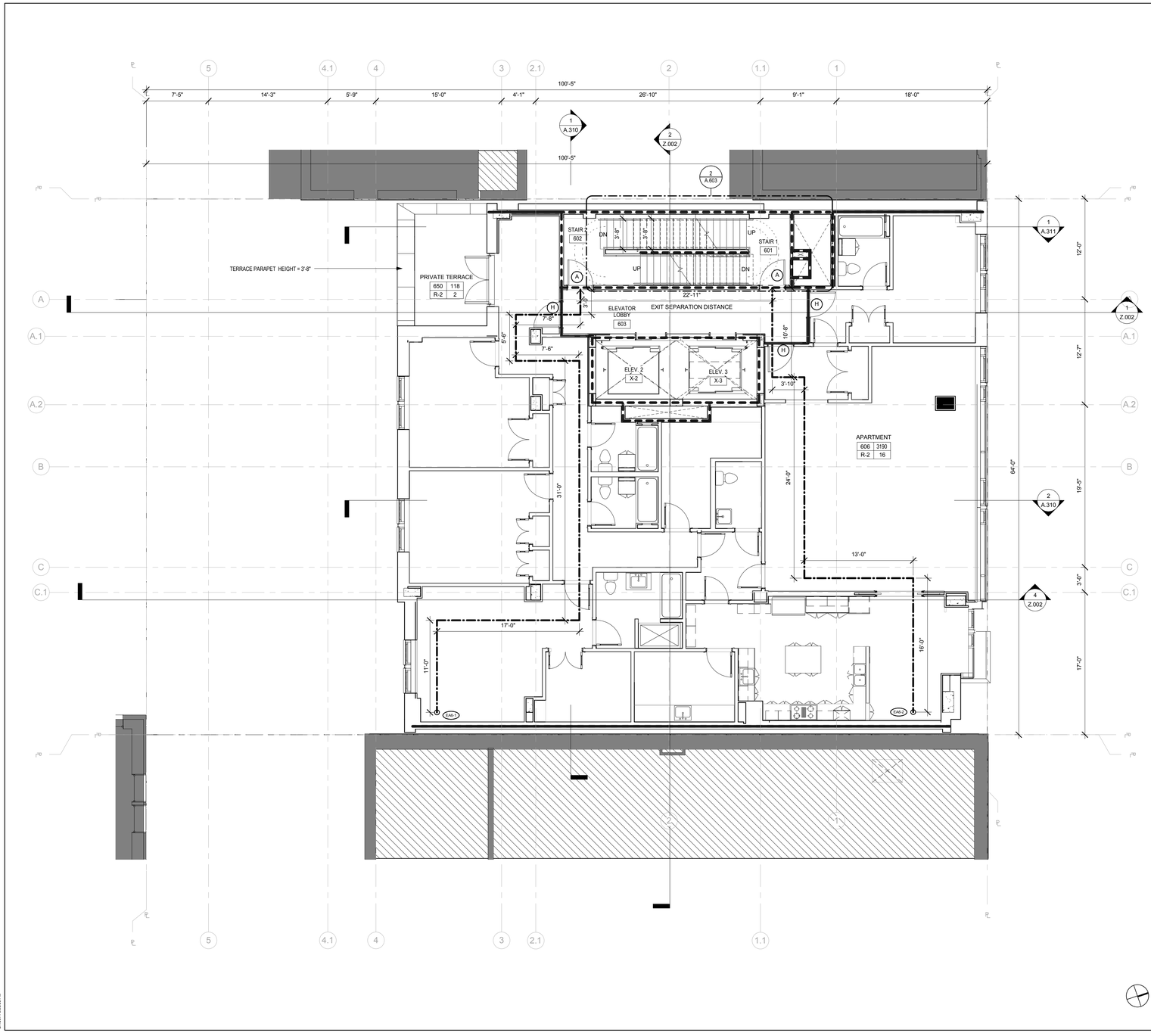

CAPACITY OF EXIT STAIRS BC 1005.1

SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	PROVIDED WIDTH
50% OF FLOOR	9	0.3"	2.7"	
50% OF FLOOR	9	0.3"	2.7"	
TOTAL REQUIRED	18	0.3"	5.4"	
TOTAL PROVIDED			88"	STAIR 1 @ 44" WIDE STAIR 2 @ 44" WIDE

CAPACITY OF EXIT DOORS BC 1005.1

SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	DOOR NUMBERS
STAIR 1	9	0.2"	1.8"	DOOR 651 TYP.A 33.5" CL
STAIR 2	9	0.2"	1.8"	DOOR 652 TYP.A 33.5" CL
TOTAL REQUIRED	18	0.2"	3.6"	
TOTAL PROVIDED				67"

SEE SCHEDULE BELOW FOR DOOR TYPE DESCRIPTION
* DOORS IN SERIES

EXIT ACCESS TRAVEL DISTANCE BC 1013.3 BC 1015.1

ROUTE	TOTAL DIST.	MAXIMUM PERMITTED DISTANCE	COMMON PATH	NOTES
EA6-1	82' 8"	200'	38' 0"	COMPLIES
EA6-2	67' 6"	200'	10' 0"	COMPLIES

DOOR TYPE SCHEDULE

KEY	W X H	EGRESS WIDTH	FIRE RATING	NOTES
A	3'0" X 6'8"	33.5"	90 MIN	HOLLOW METAL F.P.S.C.
B	6'0" X 6'8"	67"	90 MIN	HOLLOW METAL F.P.S.C.
C	6'0" X 8'4"	67"	NR	ENTRY S.C.
D	6'0" X 8'4"	67"	20 MIN	VESTIBULE S.C.
E	3'0" X 6'8"	33.5"	90 MIN	H.M. F.P.S.C. W/ VISION PANEL
F	5'0" X 6'8"	56"	90 MIN	HOLLOW METAL F.P.S.C.
G	5'8" X 10'-6"	64"	45 MIN	WOOD F.P.S.C.
H	3'0" X 6'8"	33.5"	45 MIN	HOLLOW METAL F.P.S.C.
J	3'2" X 6'8"	35.5"	45 MIN	HOLLOW METAL F.P.S.C.
K	6'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
L	3'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
M	6'0" X 6'8"	67"	45 MIN	HOLLOW METAL F.P.S.C.

LEGEND

WALL CONSTRUCTION

- 2HR RATED ENCLOSURE
- 1HR RATED ENCLOSURE
- UNRATED ENCLOSURE
- EXISTING 2HR ENCLOSURE
- EXISTING 1 HR ENCLOSURE
- EXISTING ENCLOSURE
- AREA OF NO WORK

MEANS OF EGRESS

- TRAVEL DISTANCE
- REMOTE LOCATION

GENERAL

ROOM NAME
101 | SF
USE | #

- ROOM NUMBER
- AREA
- NO. OF PERSONS
- OCCUPANCY GROUP
- ILLUMINATED EXIT SIGN
- ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROW
- PARTITION TYPE
- HOURLY RATING

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Shaugat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/06/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
05.10.13		DOB Zoning & Egress

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
SIXTH FLOOR ZONING & EGRESS PLAN

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated

Signature & Seal:
REGISTERED ARCHITECT DANIEL G. WHITE 14175 STATE OF NEW YORK

Sheet Number:
A.106.00

NYC DOB Number: 121328919
Sheet: 20 of 81

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8/7/2014 4:58:50 PM

DEPT OF BLDGS121328919 Job Number

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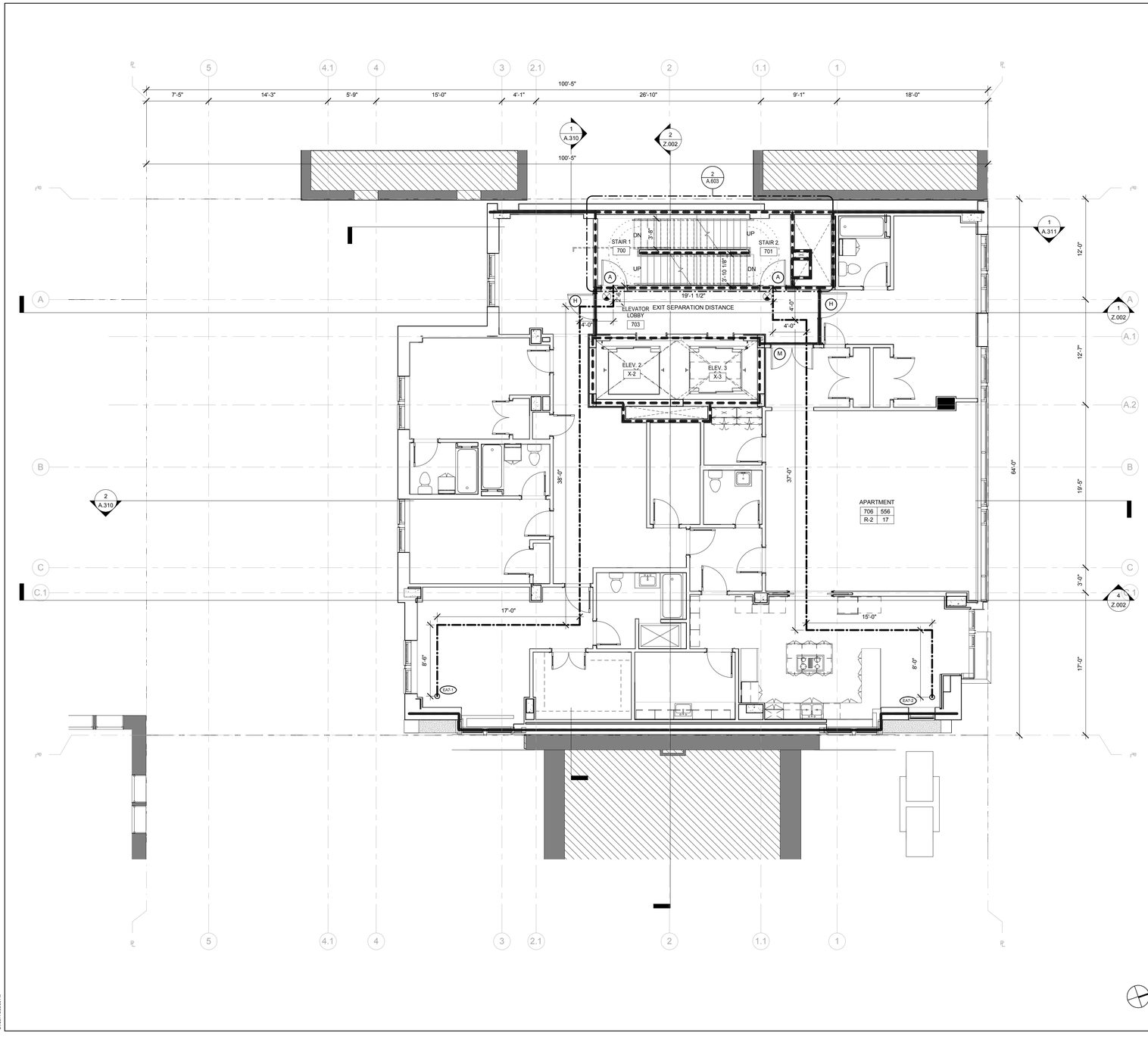

CAPACITY OF EXIT STAIRS BC 1005.1

SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	PROVIDED WIDTH
50% OF FLOOR	9	0.3"	2.7"	
50% OF FLOOR	9	0.3"	2.7"	
TOTAL REQUIRED	18	0.3"	5.4"	
TOTAL PROVIDED			88"	STAIR 1 @ 44" WIDE STAIR 2 @ 44" WIDE

CAPACITY OF EXIT DOORS BC 1005.1

SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	DOOR NUMBERS
STAIR 1	9	0.2"	1.8"	DOOR 751 TYP. A 33.5" CL.
STAIR 2	9	0.2"	1.8"	DOOR 752 TYP. A 33.5" CL.
TOTAL REQUIRED	18	0.2"	3.6"	
TOTAL PROVIDED			67"	36" DOOR TYPE A 36" DOOR TYPE A

SEE SCHEDULE BELOW FOR DOOR TYPE DESCRIPTION
* DOORS IN SERIES

EXIT ACCESS TRAVEL DISTANCE BC 1013.3 BC 1015.1

ROUTE	TOTAL DIST.	MAXIMUM PERMITTED DISTANCE	COMMON PATH	NOTES
EA1-1	0' 0"	200'	0' 0"	COMPLIES
EA1-2	0' 0"	200'	0' 0"	COMPLIES

DOOR TYPE SCHEDULE

KEY	W X H	EGRESS WIDTH	FIRE RATING	NOTES
A	3'0" X 6'8"	33.5"	90 MIN	HOLLOW METAL F.P.S.C.
B	6'0" X 6'8"	67"	90 MIN	HOLLOW METAL F.P.S.C.
C	6'0" X 8'4"	67"	NR	ENTRY S.C.
D	6'0" X 8'4"	67"	20 MIN	VESTIBULE S.C.
E	3'0" X 6'8"	33.5"	90 MIN	H.M. F.P.S.C. W/ VISION PANEL
F	5'0" X 6'8"	56"	90 MIN	HOLLOW METAL F.P.S.C.
G	5'8" X 10'-6"	64"	45 MIN	WOOD F.P.S.C.
H	3'0" X 6'8"	33.5"	45 MIN	HOLLOW METAL F.P.S.C.
J	3'2" X 6'8"	35.5"	45 MIN	HOLLOW METAL F.P.S.C.
K	6'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
L	3'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
M	6'0" X 6'8"	67"	45 MIN	HOLLOW METAL F.P.S.C.

LEGEND

WALL CONSTRUCTION

- 2HR RATED ENCLOSURE
- 1HR RATED ENCLOSURE
- UNRATED ENCLOSURE
- EXISTING 2HR ENCLOSURE
- EXISTING 1 HR ENCLOSURE
- EXISTING ENCLOSURE
- AREA OF NO WORK

MEANS OF EGRESS

- TRAVEL DISTANCE
- REMOTE LOCATION

GENERAL

ROOM NAME
101 | SF
USE | #

- ROOM NUMBER
- AREA
- NO. OF PERSONS
- OCCUPANCY GROUP
- ILLUMINATED EXIT SIGN
- ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROW
- PARTITION TYPE
- 1A3-Q HOURLY RATING

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

08.06.14		DOB New Building Permit Set
05.10.13		DOB Zoning & Egress
Date:	No.:	Description:

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
SEVENTH FLOOR ZONING & EGRESS PLAN

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated

Signature & Seal:
REGISTERED ARCHITECT SHAUQAT A. SHAIKH 14173 STATE OF NEW YORK

Sheet Number: A.107.00

NYC DOB Number: 121328919
Sheet: 21 of 81

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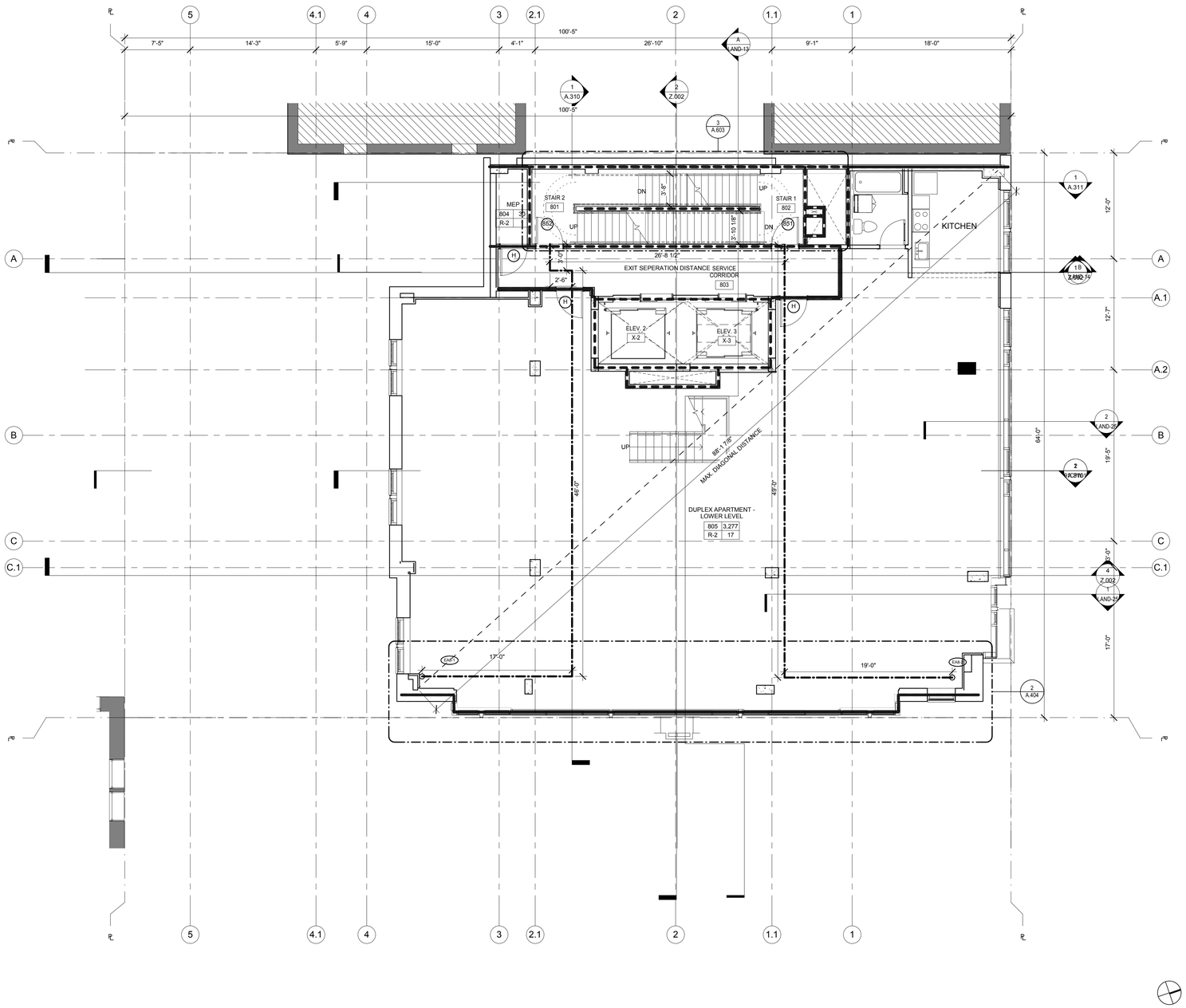

CAPACITY OF EXIT STAIRS BC 1005.1

SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	PROVIDED WIDTH
50% OF FLOOR	9	0.3"	2.7"	
50% OF FLOOR	9	0.3"	2.7"	
TOTAL REQUIRED	18	0.3"	5.4"	
TOTAL PROVIDED			88"	STAIR 1 @ 44" WIDE STAIR 2 @ 44" WIDE

CAPACITY OF EXIT DOORS BC 1005.1

SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	DOOR NUMBERS
STAIR 1	9	0.2"	1.8"	DOOR 851 TYP.A.33.5" CL
STAIR 2	9	0.2"	1.8"	DOOR 852 TYP.A.33.5" CL
TOTAL REQUIRED	18	0.2"	3.6"	
TOTAL PROVIDED				67"

SEE SCHEDULE BELOW FOR DOOR TYPE DESCRIPTION
* DOORS IN SERIES

EXIT ACCESS TRAVEL DISTANCE BC 1013.3 BC 1015.1

ROUTE	TOTAL DIST.	MAXIMUM PERMITTED DISTANCE	COMMON PATH	NOTES
EA8-1	68' 6"	200'	0' 0"	COMPLIES
EA8-2	68' 0"	200'	0' 0"	COMPLIES

DOOR TYPE SCHEDULE

KEY	W X H	EGRESS WIDTH	FIRE RATING	NOTES
A	3'0" X 6'8"	33.5"	90 MIN	HOLLOW METAL F.P.S.C.
B	6'0" X 6'8"	67"	90 MIN	HOLLOW METAL F.P.S.C.
C	6'0" X 8'4"	67"	NR	ENTRY S.C.
D	6'0" X 8'4"	67"	20 MIN	VESTIBULE S.C.
E	3'0" X 6'8"	33.5"	90 MIN	H.M. F.P.S.C. W/ VISION PANEL
F	5'0" X 6'8"	56"	90 MIN	HOLLOW METAL F.P.S.C.
G	5'8" X 10'-6"	64"	45 MIN	WOOD F.P.S.C.
H	3'0" X 6'8"	33.5"	45 MIN	HOLLOW METAL F.P.S.C.
J	3'2" X 6'8"	35.5"	45 MIN	HOLLOW METAL F.P.S.C.
K	6'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
L	3'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
M	6'0" X 6'8"	67"	45 MIN	HOLLOW METAL F.P.S.C.

LEGEND

WALL CONSTRUCTION

- 2HR RATED ENCLOSURE
- 1HR RATED ENCLOSURE
- UNRATED ENCLOSURE
- EXISTING 2HR ENCLOSURE
- EXISTING 1 HR ENCLOSURE
- EXISTING ENCLOSURE
- AREA OF NO WORK

MEANS OF EGRESS

- TRAVEL DISTANCE
- REMOTE LOCATION

GENERAL

ROOM NAME
101 | SF
USE | #

- ROOM NUMBER
- AREA
- NO. OF PERSONS
- OCCUPANCY GROUP
- ILLUMINATED EXIT SIGN
- ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROW
- PARTITION TYPE
- HOURLY RATING

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/06/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
05.10.13		DOB Zoning & Egress

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
EIGHTH FLOOR ZONING & EGRESS PLAN

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated

Signature & Seal:
REGISTERED ARCHITECT SAMUEL G. WHITE 14175 STATE OF NEW YORK

Sheet Number:
A.108.00

NYC DOB Number: 121328919
Sheet: 22 of 81

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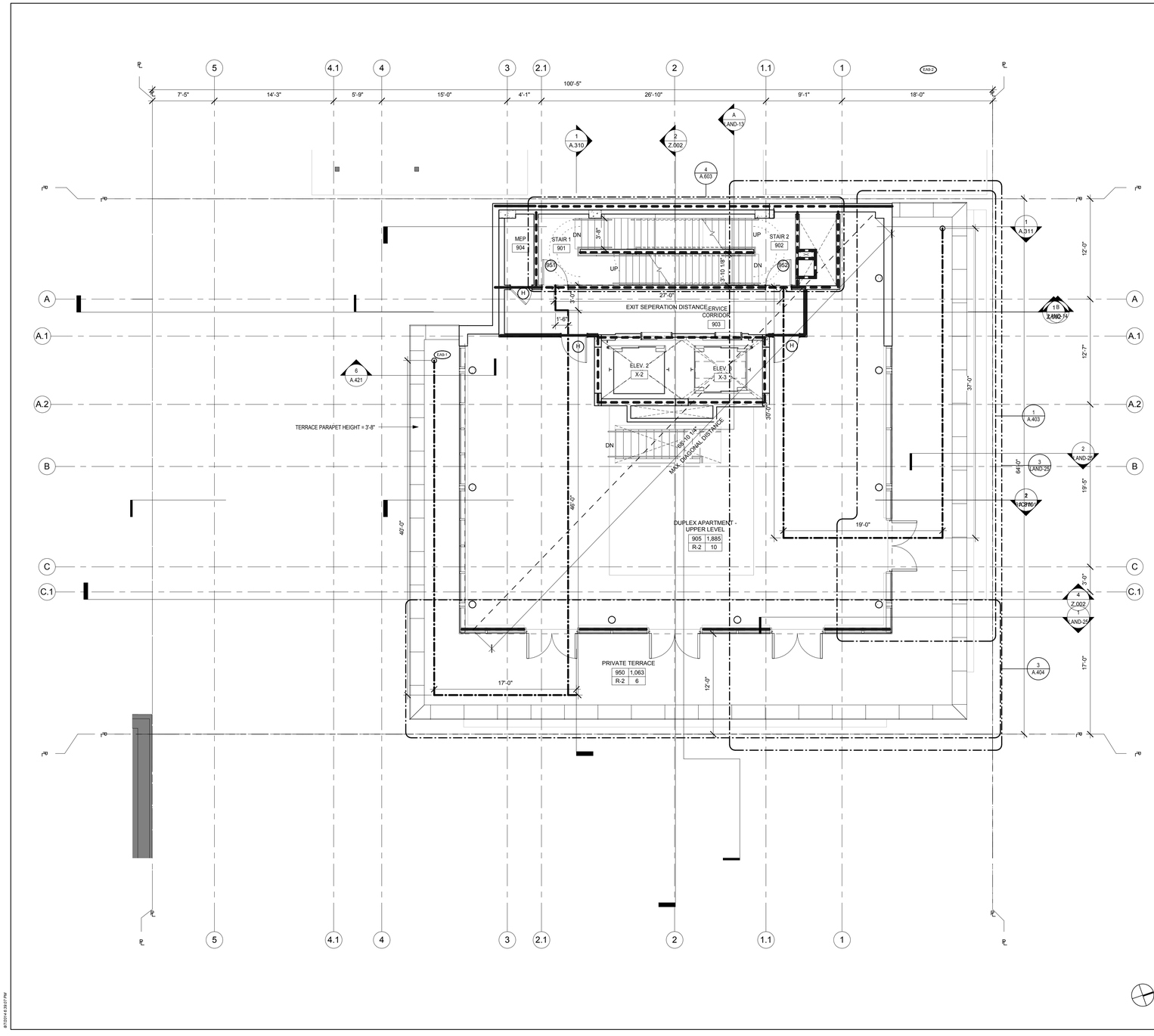

CAPACITY OF EXIT STAIRS BC 1005.1

SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	PROVIDED WIDTH
50% OF FLOOR	8	0.3"	2.4"	
50% OF FLOOR	8	0.3"	2.4"	
TOTAL REQUIRED	15	0.3"	4.8"	
TOTAL PROVIDED			88"	STAIR 1 @ 44" WIDE STAIR 2 @ 44" WIDE

CAPACITY OF EXIT DOORS BC 1005.1

SPACE SERVED	NO. OF PEOPLE	EGRESS WIDTH PER OCCUPANT	REQ'D EGRESS WIDTH	DOOR NUMBERS
STAIR 1	8	0.2"	1.6"	DOOR 951 TYP.A 33.5" CL
STAIR 2	8	0.2"	1.6"	DOOR 952 TYP.A 33.5" CL
TOTAL REQUIRED	15	0.2"	3.2"	
TOTAL PROVIDED				67"

SEE SCHEDULE BELOW FOR DOOR TYPE DESCRIPTION
* DOORS IN SERIES

EXIT ACCESS TRAVEL DISTANCE BC 1013.3 BC 1015.1

ROUTE	TOTAL DIST.	MAXIMUM PERMITTED DISTANCE	COMMON PATH	NOTES
EA1-1	108' 6"	200'	57' 0"	COMPLIES
EA1-2	124' 0"	200'	75' 0"	COMPLIES

DOOR TYPE SCHEDULE

KEY	W X H	EGRESS WIDTH	FIRE RATING	NOTES
A	3'0" X 6'8"	33.5"	90 MIN	HOLLOW METAL F.P.S.C.
B	6'0" X 6'8"	67"	90 MIN	HOLLOW METAL F.P.S.C.
C	6'0" X 8'4"	67"	NR	ENTRY S.C.
D	6'0" X 8'4"	67"	20 MIN	VESTIBULE S.C.
E	3'0" X 6'8"	33.5"	90 MIN	H.M. F.P.S.C. W/ VISION PANEL
F	5'0" X 6'8"	56"	90 MIN	HOLLOW METAL F.P.S.C.
G	5'8" X 10'-6"	64"	45 MIN	WOOD F.P.S.C.
H	3'0" X 6'8"	33.5"	45 MIN	HOLLOW METAL F.P.S.C.
J	3'2" X 6'8"	35.5"	45 MIN	HOLLOW METAL F.P.S.C.
K	6'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
L	3'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
M	6'0" X 6'8"	67"	45 MIN	HOLLOW METAL F.P.S.C.

LEGEND

WALL CONSTRUCTION

- 2HR RATED ENCLOSURE
- 1HR RATED ENCLOSURE
- UNRATED ENCLOSURE
- EXISTING 2HR ENCLOSURE
- EXISTING 1 HR ENCLOSURE
- EXISTING ENCLOSURE
- AREA OF NO WORK

MEANS OF EGRESS

- TRAVEL DISTANCE
- REMOTE LOCATION

GENERAL

- ROOM NAME / 101 SF / USE # — ROOM NUMBER, AREA, NO. OF PERSONS, OCCUPANCY GROUP
- ILLUMINATED EXIT SIGN
- ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROW
- 1A3-0 — PARTITION TYPE, HOURLY RATING

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718.383.8510 fax

Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
05.10.13		DOB Zoning & Egress

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
NINTH FLOOR ZONING & EGRESS PLAN

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated
Signature & Seal:

REGISTERED ARCHITECT — SHAUQAT Q. SHAIKH — 14173 — STATE OF NEW YORK

Sheet Number: A.109.00

NYC DOB Number: 121328919
Sheet: 23 of 81

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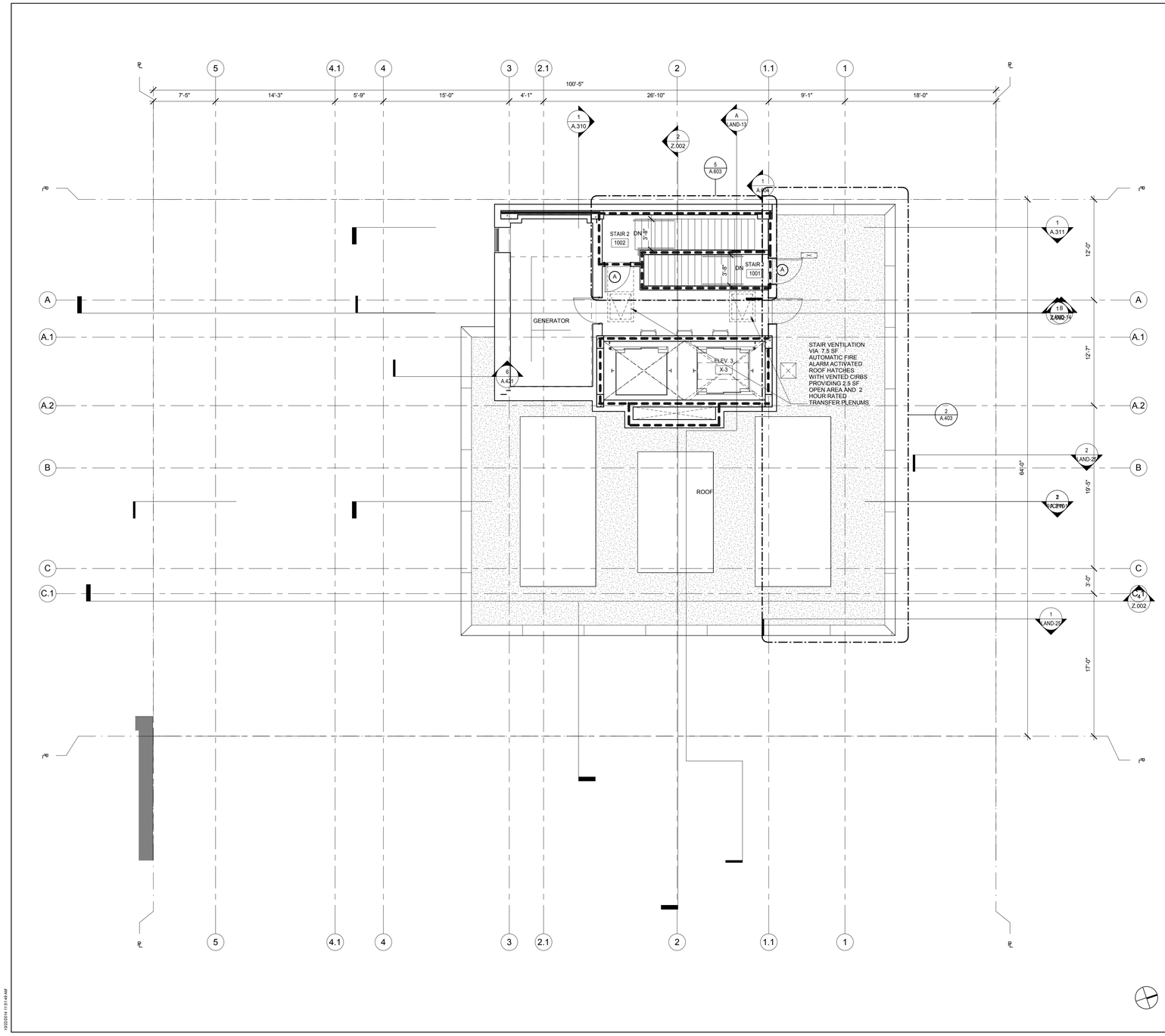

DOOR TYPE SCHEDULE

KEY	W X H	EGRESS WIDTH	FIRE RATING	NOTES
A	3'0" X 6'8"	33.5"	90 MIN	HOLLOW METAL F.P.S.C.
B	6'0" X 6'8"	67"	90 MIN	HOLLOW METAL F.P.S.C.
C	6'0" X 8'4"	67"	NR	ENTRY S.C.
D	6'0" X 8'4"	67"	20 MIN	VESTIBULE S.C.
E	3'0" X 6'8"	33.5"	90 MIN	H.M. F.P.S.C. W/ VISION PANEL
F	5'0" X 6'8"	56"	90 MIN	HOLLOW METAL F.P.S.C.
G	5'8" X 10'-6"	64"	45 MIN	WOOD F.P.S.C.
H	3'0" X 6'8"	33.5"	45 MIN	HOLLOW METAL F.P.S.C.
J	3'2" X 6'8"	35.5"	45 MIN	HOLLOW METAL F.P.S.C.
K	6'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
L	3'0" X 7'0"	67"	45 MIN	STEEL FRAME F.P.S.C. W/ FIREGLASS
M	6'0" X 6'8"	67"	45 MIN	HOLLOW METAL F.P.S.C.

LEGEND

WALL CONSTRUCTION

- 2HR RATED ENCLOSURE
- 1HR RATED ENCLOSURE
- UNRATED ENCLOSURE
- EXISTING 2HR ENCLOSURE
- EXISTING 1 HR ENCLOSURE
- EXISTING ENCLOSURE
- AREA OF NO WORK

MEANS OF EGRESS

- TRAVEL DISTANCE
- REMOTE LOCATION

GENERAL

ROOM NAME
101 SF
USE #

- ROOM NUMBER
- AREA
- NO. OF PERSONS
- OCCUPANCY GROUP
- ILLUMINATED EXIT SIGN
- ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROW
- PARTITION TYPE
- HOURLY RATING

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
10.21.14	2	DOB New Building Permit Set
05.10.13	1	DOB Zoning & Egress

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
TENTH FLOOR ZONING AND EGRESS PLAN

Project Number: 12639
Drawn By: SJD
Checked By: Checker
Scale: As indicated

Signature & Seal:
REGISTERED ARCHITECT SHAUQAT G SHAIKH NO. 14175 STATE OF NEW YORK

Sheet Number:
A.110.00

NYC DOB Number: 121328919
Sheet: 24 of 81

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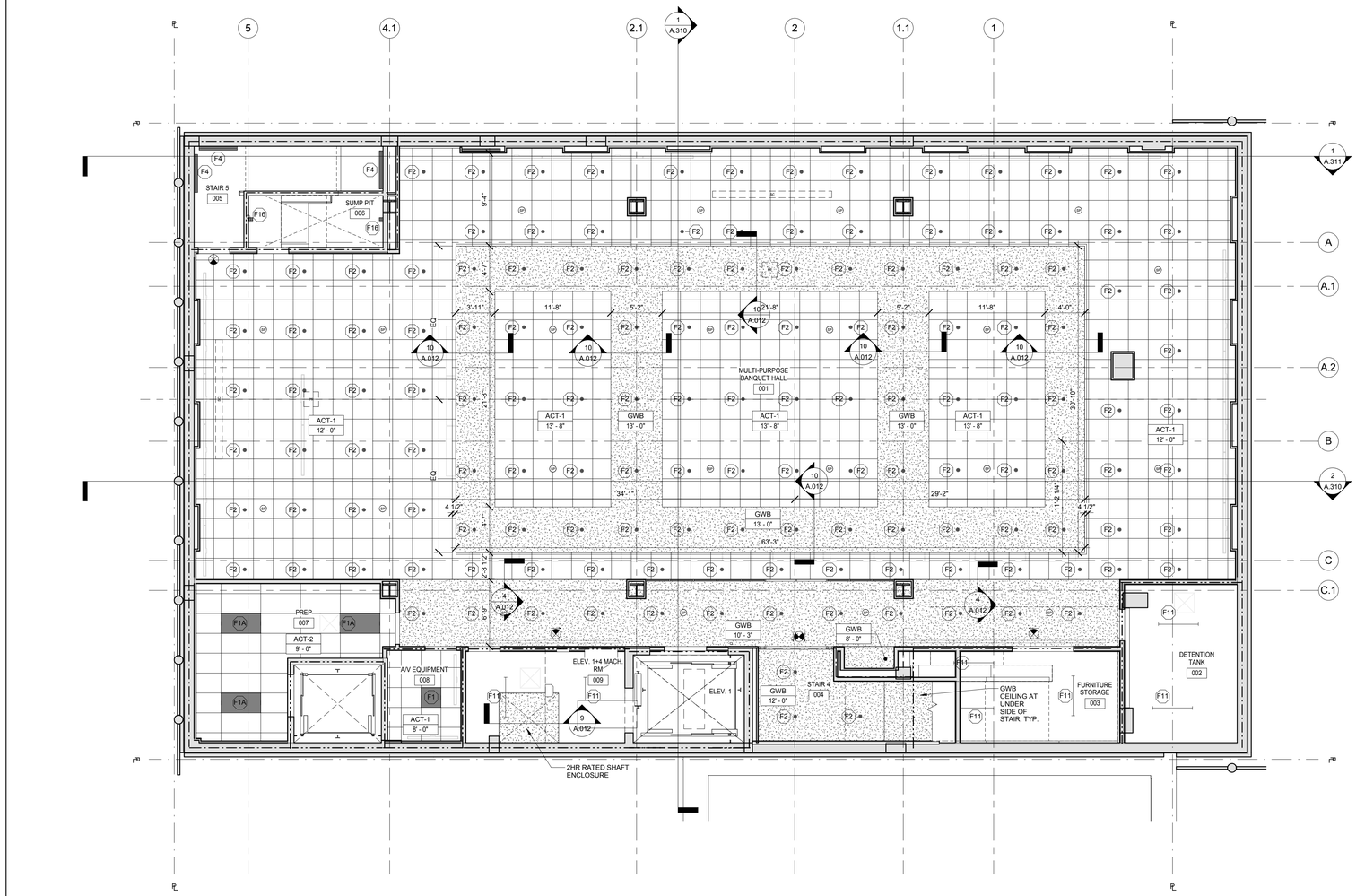

LEGEND

Room Name / 101	ROOM NAME / ROOM NUMBER
X / '.'	CEILING TYPE / CEILING HEIGHT
	ILLUMINATED EXIT SIGN
	ILLUMINATED DIRECTIONAL EXIT SIGN
	WALL MOUNTED EMERGENCY LIGHT FIXTURE
	ACCESS PANEL
SP	SPEAKER (NIC)
	LIGHT FIXTURE - F1
	LIGHT FIXTURE - F1A
	LIGHT FIXTURE - F2
	LIGHT FIXTURE - F2A
	LIGHT FIXTURE - F4
	LIGHT FIXTURE - F4A
	LIGHT FIXTURE - F6
	LIGHT FIXTURE - F11
	LIGHT FIXTURE - F12
	LIGHT FIXTURE - F16
	LIGHT FIXTURE - F19
	MECHOSHADE DOUBLE - MS
	24"x24" RETURN DIFFUSER
	24"x24" SUPPLY DIFFUSER
	LINEAR DIFFUSER

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
01.31.14		Guaranteed Max Price (80% CD)
07.01.13		80% CD Pricing Set

Project:
8 West 70th

8 West 70th St.
New York, NY 10023

Sheet Title:
LOWER LEVEL 2 RCP

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 3/16" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT SAMUEL G. WHITE NO. 14775 STATE OF NEW YORK

Sheet Number:
A.119.00

NYC DOB Number: 121328919
Sheet: 25 of 81

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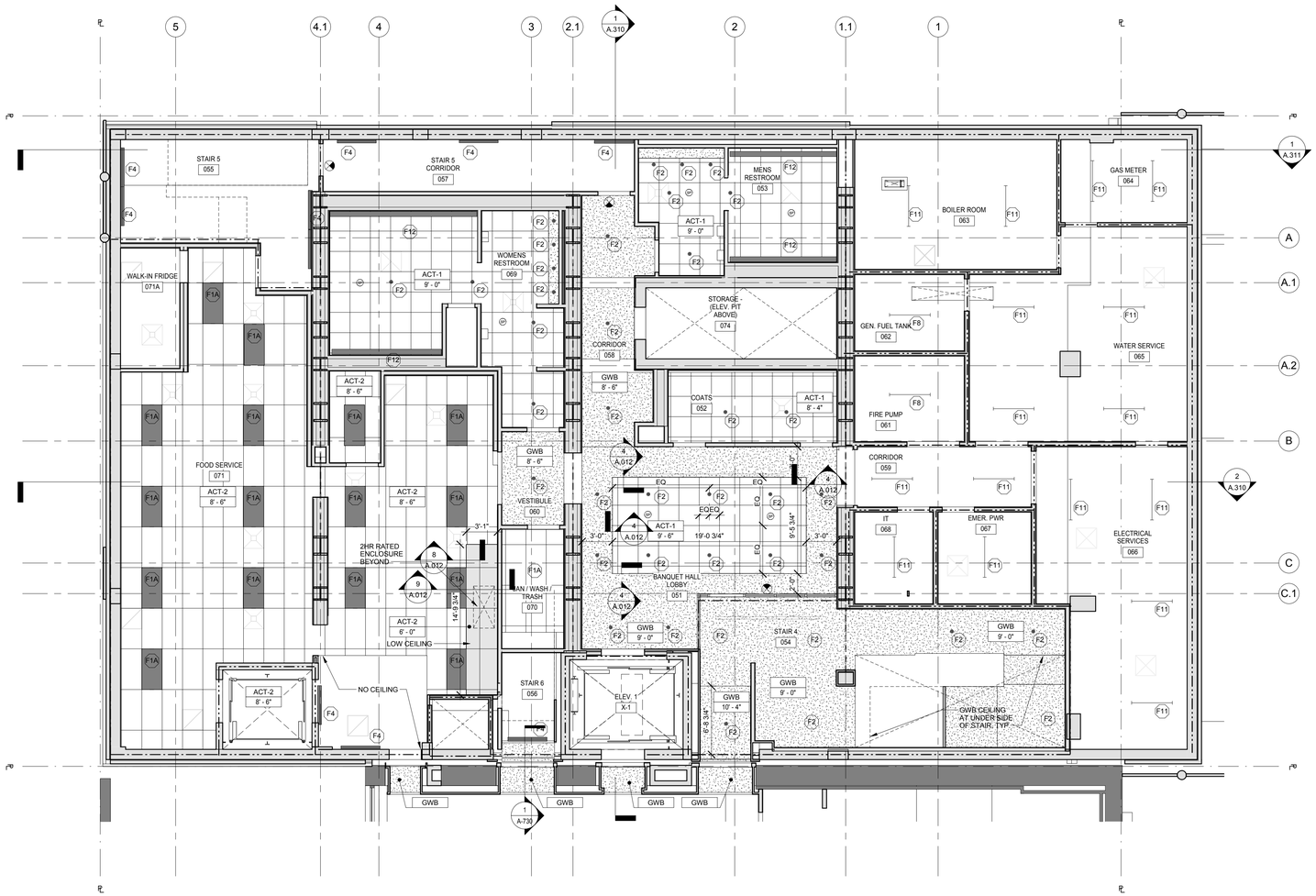

LEGEND

- Room Name / 101 — ROOM NAME / ROOM NUMBER
- X / '-" — CEILING TYPE / CEILING HEIGHT
- ILLUMINATED EXIT SIGN
- ILLUMINATED DIRECTIONAL EXIT SIGN
- WALL MOUNTED EMERGENCY LIGHT FIXTURE
- ACCESS PANEL
- SP — SPEAKER (NIC)
- LIGHT FIXTURE - F1
- LIGHT FIXTURE - F1A
- LIGHT FIXTURE - F2
- LIGHT FIXTURE - F2A
- LIGHT FIXTURE - F4
- LIGHT FIXTURE - F4A
- LIGHT FIXTURE - F6
- LIGHT FIXTURE - F11
- LIGHT FIXTURE - F12
- LIGHT FIXTURE - F16
- LIGHT FIXTURE - F19
- MECHOSHADE DOUBLE - MS
- 24"x24" RETURN DIFFUSER
- 24"x24" SUPPLY DIFFUSER
- LINEAR DIFFUSER

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Shaugat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
01.31.14		Guaranteed Max Price (80% CD)
07.01.13		80% CD Pricing Set

Project:
8 West 70th

8 West 70th St.
New York, NY 10023

Sheet Title:
LOWER LEVEL 1 RCP

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 3/16" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT SAMUEL G WHITE NO. 14175 STATE OF NEW YORK

Sheet Number:
A.120.00

NYC DOB Number: 121328919
Sheet: 26 of 81

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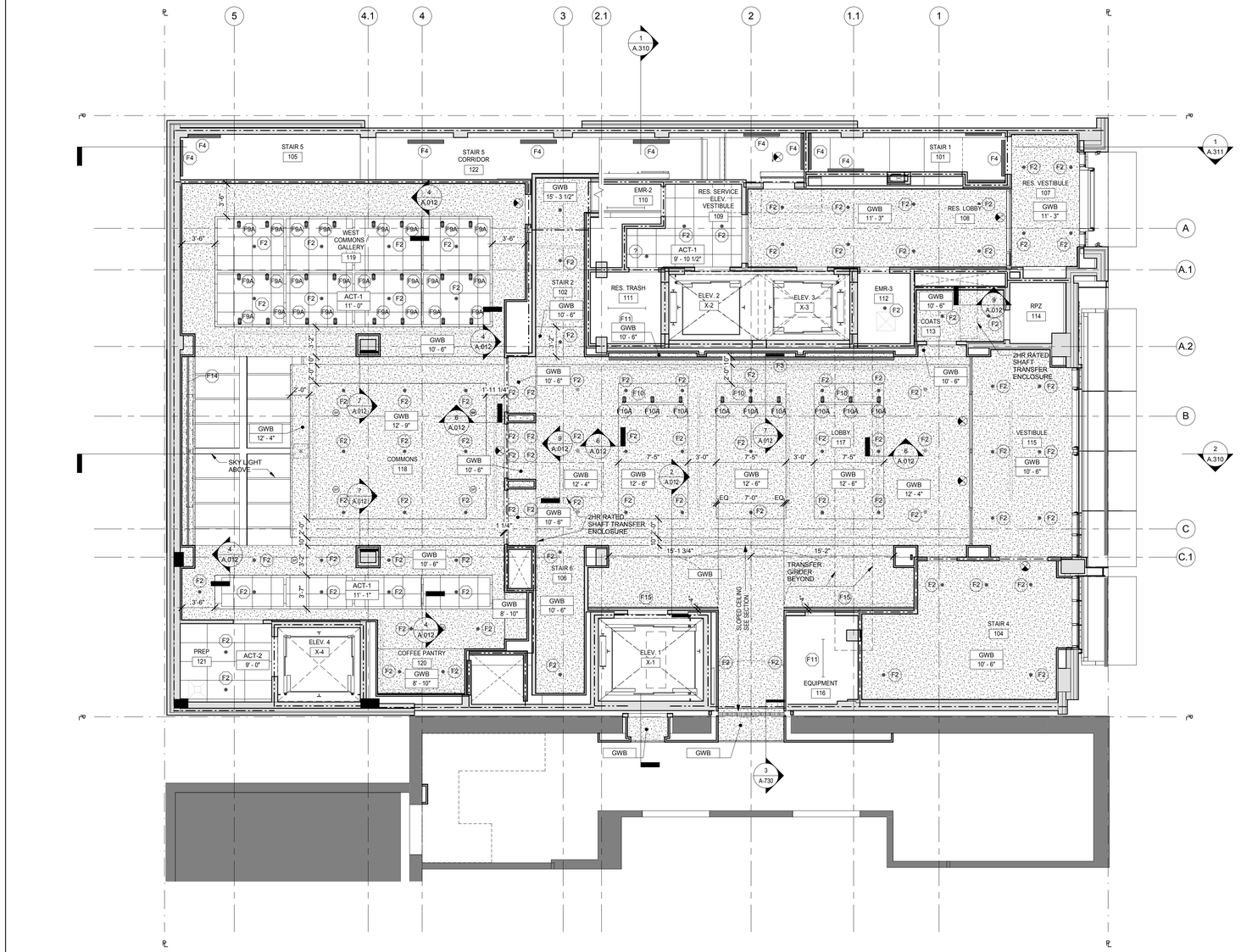

LEGEND

Room Name / 101	ROOM NAME / ROOM NUMBER
X	CEILING TYPE
'-"	CEILING HEIGHT
	ILLUMINATED EXIT SIGN
	ILLUMINATED DIRECTIONAL EXIT SIGN
	WALL MOUNTED EMERGENCY LIGHT FIXTURE
	ACCESS PANEL
SP	SPEAKER (NIC)
	LIGHT FIXTURE - F1
	LIGHT FIXTURE - F1A
	LIGHT FIXTURE - F2
	LIGHT FIXTURE - F2A
	LIGHT FIXTURE - F4
	LIGHT FIXTURE - F4A
	LIGHT FIXTURE - F6
	LIGHT FIXTURE - F11
	LIGHT FIXTURE - F12
	LIGHT FIXTURE - F16
	LIGHT FIXTURE - F19
	MECHOSHADE DOUBLE - MS
	24"x24" RETURN DIFFUSER
	24"x24" SUPPLY DIFFUSER
	LINEAR DIFFUSER

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Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
01.31.14		Guaranteed Max Price (80% CD)
07.01.13		80% CD Pricing Set

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
LEVEL 1 RCP

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 3/16" = 1'-0"
Signature & Seal:

Sheet Number:
A.121.00

NYC DOB Number: 121328919
Sheet: 27 of 81

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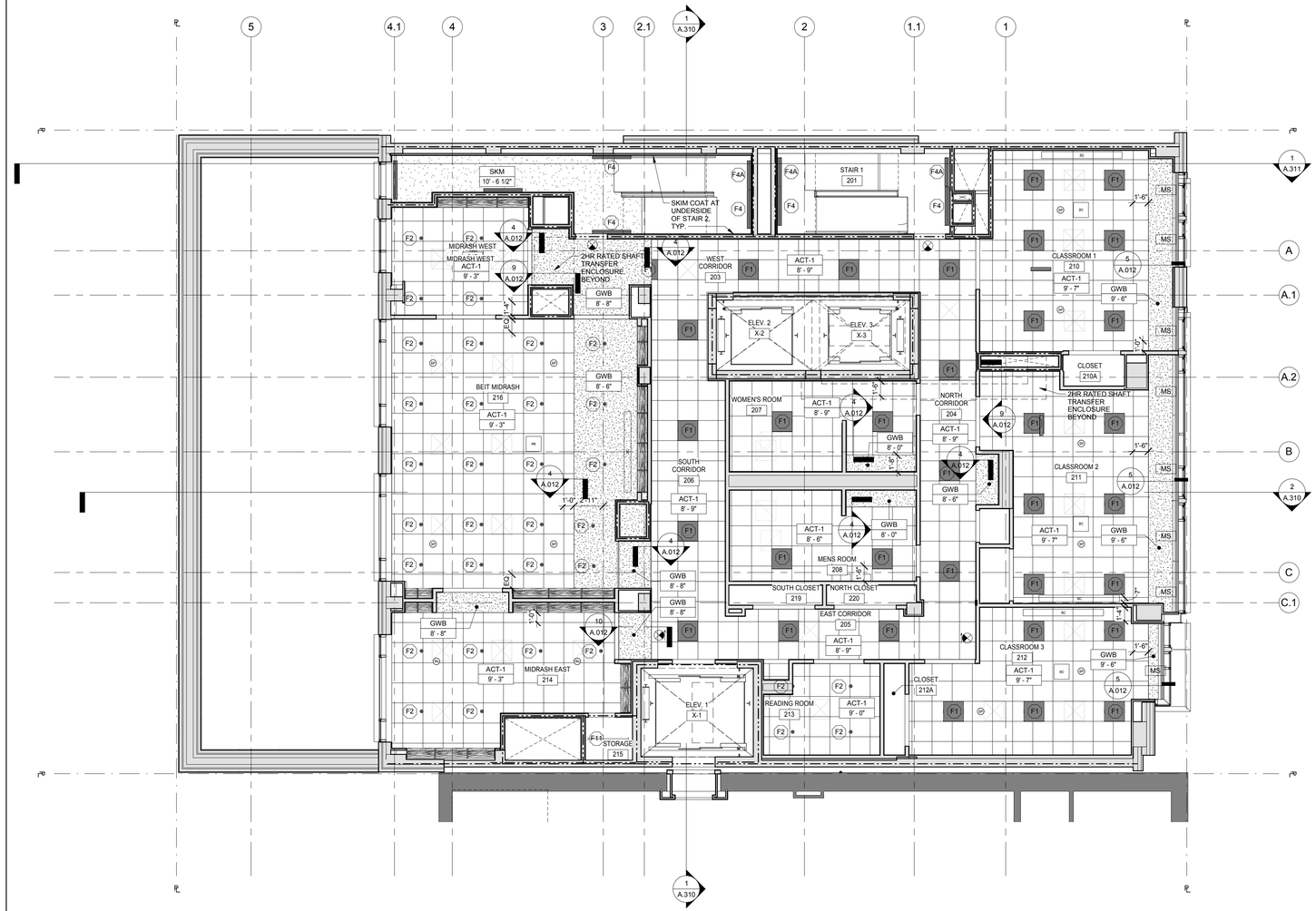

LEGEND

- Room Name / 101 — ROOM NAME / ROOM NUMBER
- X / '-" — CEILING TYPE / CEILING HEIGHT
- ILLUMINATED EXIT SIGN
- ILLUMINATED DIRECTIONAL EXIT SIGN
- WALL MOUNTED EMERGENCY LIGHT FIXTURE
- ACCESS PANEL
- SP — SPEAKER (NIC)
- LIGHT FIXTURE - F1
- LIGHT FIXTURE - F1A
- LIGHT FIXTURE - F2
- LIGHT FIXTURE - F2A
- LIGHT FIXTURE - F4
- LIGHT FIXTURE - F4A
- LIGHT FIXTURE - F6
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- LIGHT FIXTURE - F12
- LIGHT FIXTURE - F16
- LIGHT FIXTURE - F19
- MECHOSHADE DOUBLE - MS
- 24"x24" RETURN DIFFUSER
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- LINEAR DIFFUSER

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Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
01.31.14		Guaranteed Max Price (80% CD)
07.01.13		80% CD Pricing Set

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
LEVEL 2 RCP

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 3/16" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT SAMUEL G. WHITE 14175 STATE OF NEW YORK

Sheet Number:
A.122.00

NYC DOB Number: 121328919
Sheet: 28 of 81

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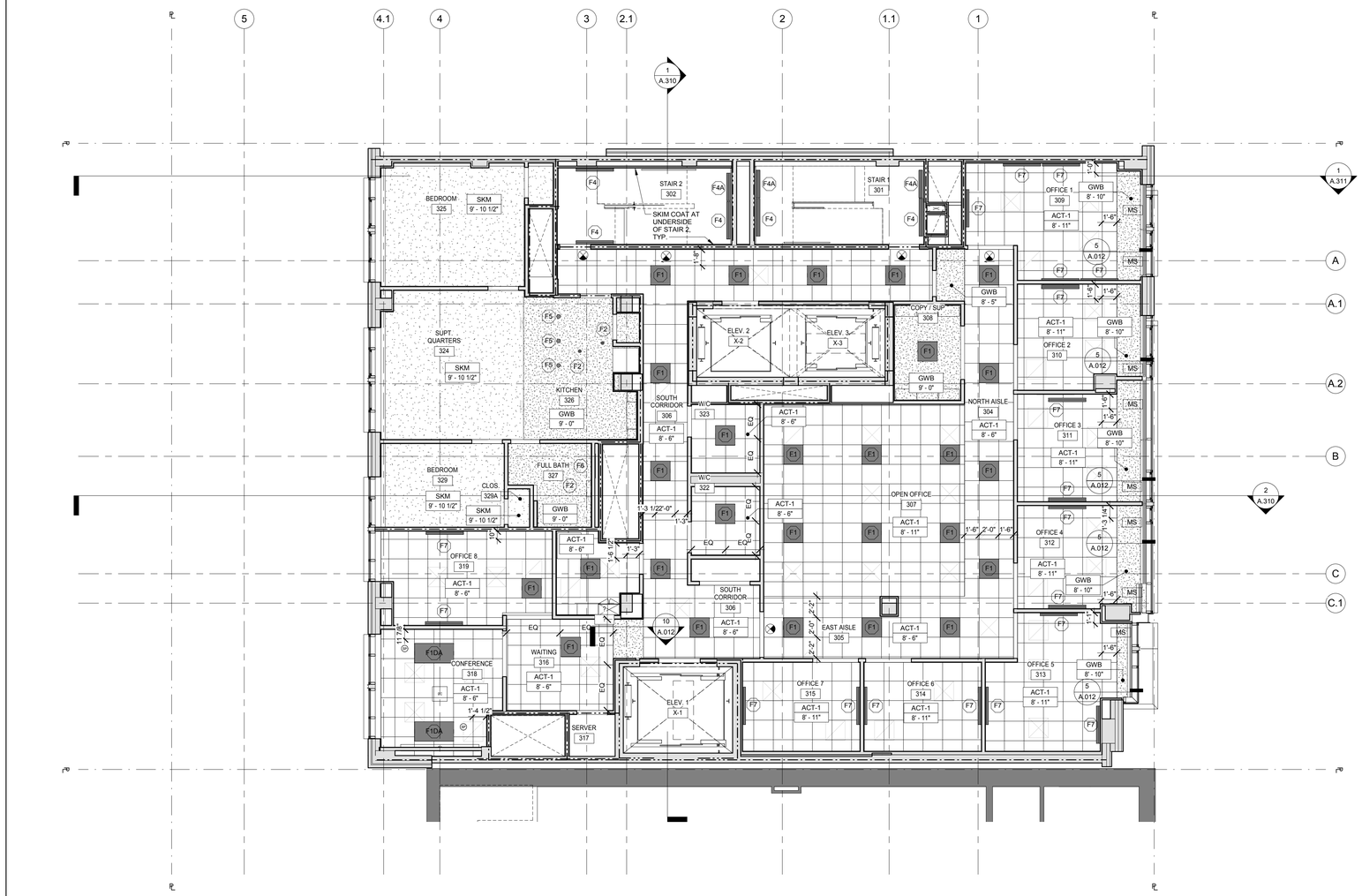

LEGEND

Room Name 101	ROOM NAME / ROOM NUMBER
X	CEILING TYPE
"."	CEILING HEIGHT
	ILLUMINATED EXIT SIGN
	ILLUMINATED DIRECTIONAL EXIT SIGN
	WALL MOUNTED EMERGENCY LIGHT FIXTURE
	ACCESS PANEL
SP	SPEAKER (NIC)
	LIGHT FIXTURE - F1
	LIGHT FIXTURE - F1A
	LIGHT FIXTURE - F2
	LIGHT FIXTURE - F2A
	LIGHT FIXTURE - F4
	LIGHT FIXTURE - F4A
	LIGHT FIXTURE - F6
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	LIGHT FIXTURE - F12
	LIGHT FIXTURE - F16
	LIGHT FIXTURE - F19
	MECHOSHADE DOUBLE - MS
	24"x24" RETURN DIFFUSER
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	LINEAR DIFFUSER

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Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
01.31.14		Guaranteed Max Price (80% CD)
07.01.13		80% CD Pricing Set

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
LEVEL 3 RCP

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 3/16" = 1'-0"
Signature & Seal:

Sheet Number:
A.123.00

NYC DOB Number: 121328919
Sheet: 29 of 81

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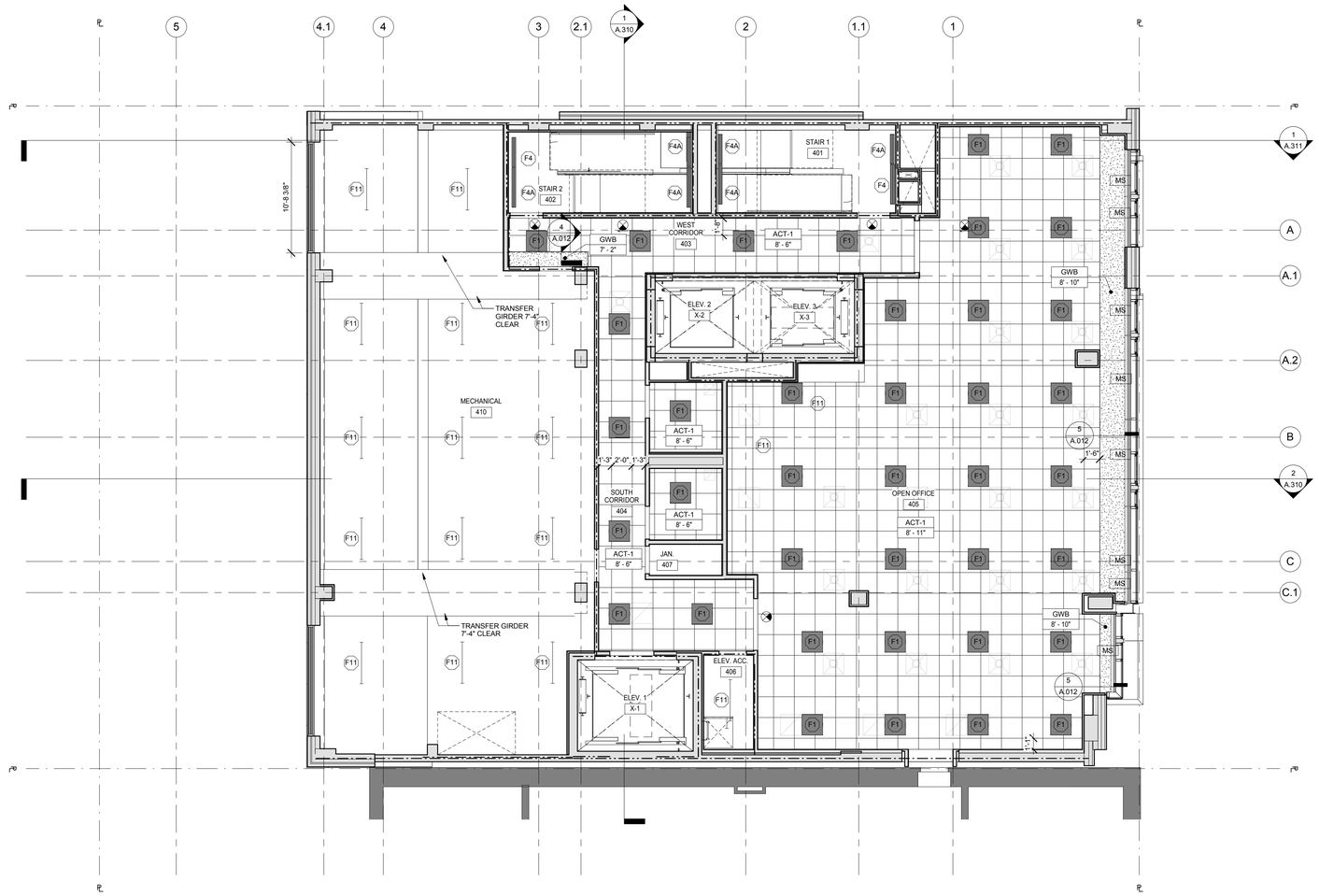

LEGEND

- Room Name / 101 — ROOM NAME / ROOM NUMBER
- X / 'x" — CEILING TYPE / CEILING HEIGHT
- ILLUMINATED EXIT SIGN
- ILLUMINATED DIRECTIONAL EXIT SIGN
- WALL MOUNTED EMERGENCY LIGHT FIXTURE
- ACCESS PANEL
- SP — SPEAKER (NIC)
- LIGHT FIXTURE - F1
- LIGHT FIXTURE - F1A
- LIGHT FIXTURE - F2
- LIGHT FIXTURE - F2A
- LIGHT FIXTURE - F4
- LIGHT FIXTURE - F4A
- LIGHT FIXTURE - F6
- LIGHT FIXTURE - F11
- LIGHT FIXTURE - F12
- LIGHT FIXTURE - F16
- LIGHT FIXTURE - F19
- MECHOSHADE DOUBLE - MS
- 24"x24" RETURN DIFFUSER
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Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
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01.31.14		Guaranteed Max Price (80% CD)
07.01.13		80% CD Pricing Set

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
LEVEL 4 RCP

Project Number: 12639	*Signature & Seal:* REGISTERED ARCHITECT SAMUEL G WHITE NO. 14175 STATE OF NEW YORK
Drawn By: Author	
Checked By: Checker	
Scale: 3/16" = 1'-0"	

Sheet Number:
A.124.00

NYC DOB Number: 121328919
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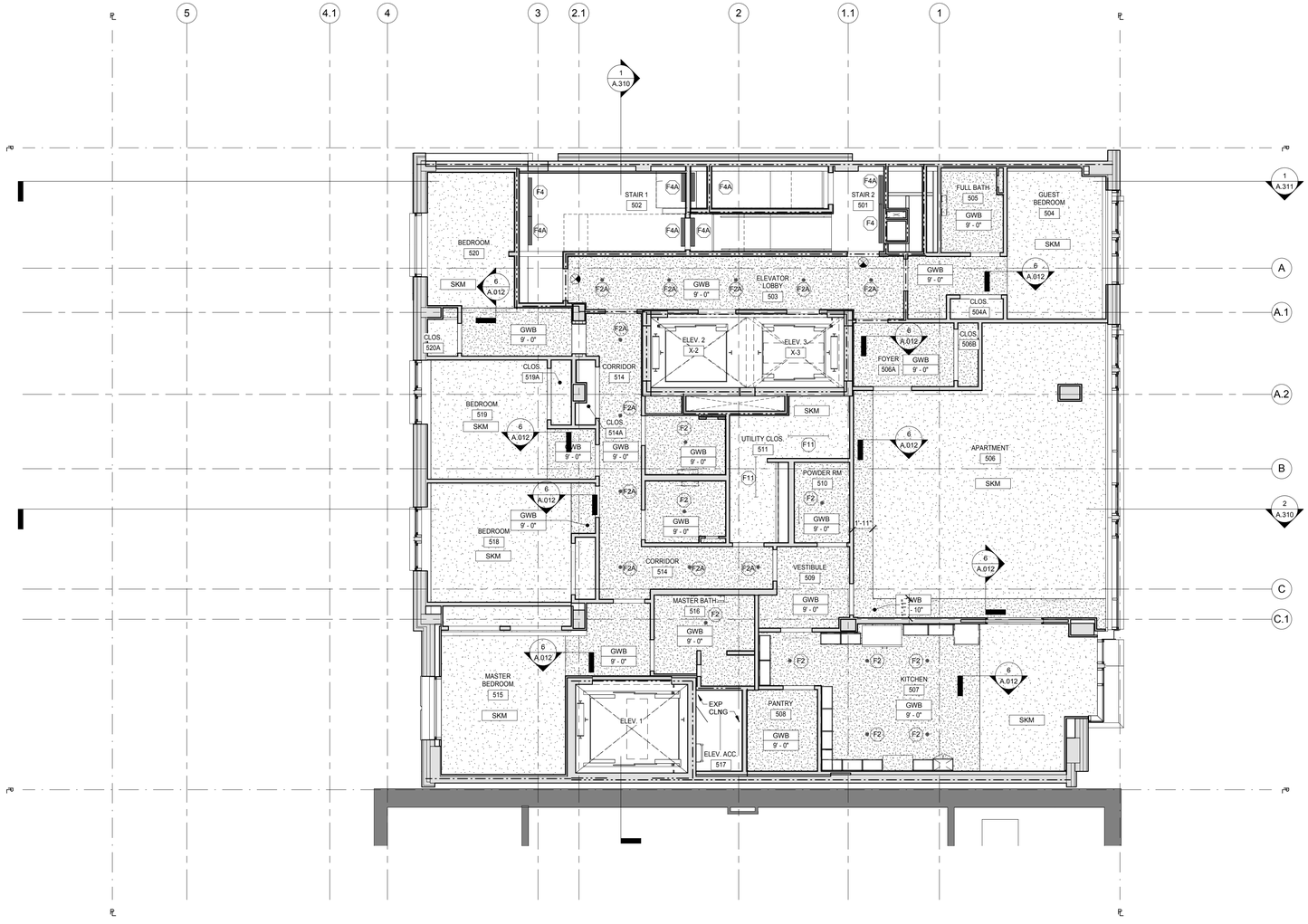

LEGEND

Room Name / 101	ROOM NAME / ROOM NUMBER
X / "-"	CEILING TYPE
	CEILING HEIGHT
	ILLUMINATED EXIT SIGN
	ILLUMINATED DIRECTIONAL EXIT SIGN
	WALL MOUNTED EMERGENCY LIGHT FIXTURE
	ACCESS PANEL
SP	SPEAKER (NIC)
	LIGHT FIXTURE - F1
	LIGHT FIXTURE - F1A
	LIGHT FIXTURE - F2
	LIGHT FIXTURE - F2A
	LIGHT FIXTURE - F4
	LIGHT FIXTURE - F4A
	LIGHT FIXTURE - F6
	LIGHT FIXTURE - F11
	LIGHT FIXTURE - F12
	LIGHT FIXTURE - F16
	LIGHT FIXTURE - F19
	MECHOSHADE DOUBLE - MS
	24"x24" RETURN DIFFUSER
	24"x24" SUPPLY DIFFUSER
	LINEAR DIFFUSER

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Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
01.31.14		Guaranteed Max Price (80% CD)
07.01.13		80% CD Pricing Set

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
LEVEL 5 RCP

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 3/16" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT SAMUEL G. WHITE NO. 14775 STATE OF NEW YORK

Sheet Number:
A.125.00

NYC DOB Number: 121328919
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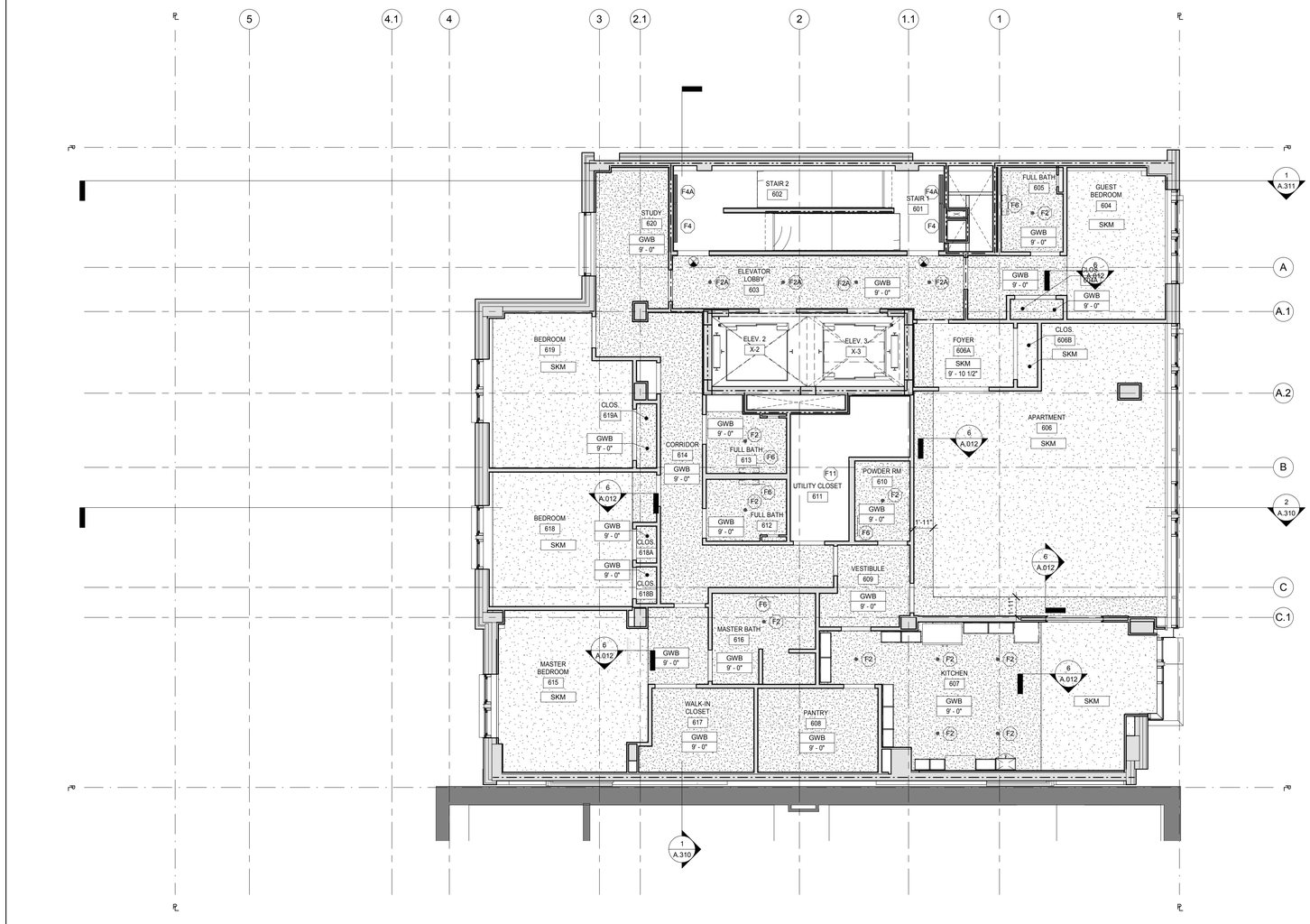

LEGEND

Room Name / 101	ROOM NAME / ROOM NUMBER
X / '.'	CEILING TYPE / CEILING HEIGHT
	ILLUMINATED EXIT SIGN
	ILLUMINATED DIRECTIONAL EXIT SIGN
	WALL MOUNTED EMERGENCY LIGHT FIXTURE
	ACCESS PANEL
SP	SPEAKER (NIC)
	LIGHT FIXTURE - F1
	LIGHT FIXTURE - F1A
	LIGHT FIXTURE - F2
	LIGHT FIXTURE - F2A
	LIGHT FIXTURE - F4
	LIGHT FIXTURE - F4A
	LIGHT FIXTURE - F6
	LIGHT FIXTURE - F11
	LIGHT FIXTURE - F12
	LIGHT FIXTURE - F16
	LIGHT FIXTURE - F19
	MECHOSHADE DOUBLE - MS
	24"x24" RETURN DIFFUSER
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	LINEAR DIFFUSER

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Buildings
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Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
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07.01.13		80% CD Pricing Set

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
LEVEL 6 RCP

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 3/16" = 1'-0"
Signature & Seal:

Sheet Number:
A.126.00

NYC DOB Number: 121328919
Sheet: 32 of 81

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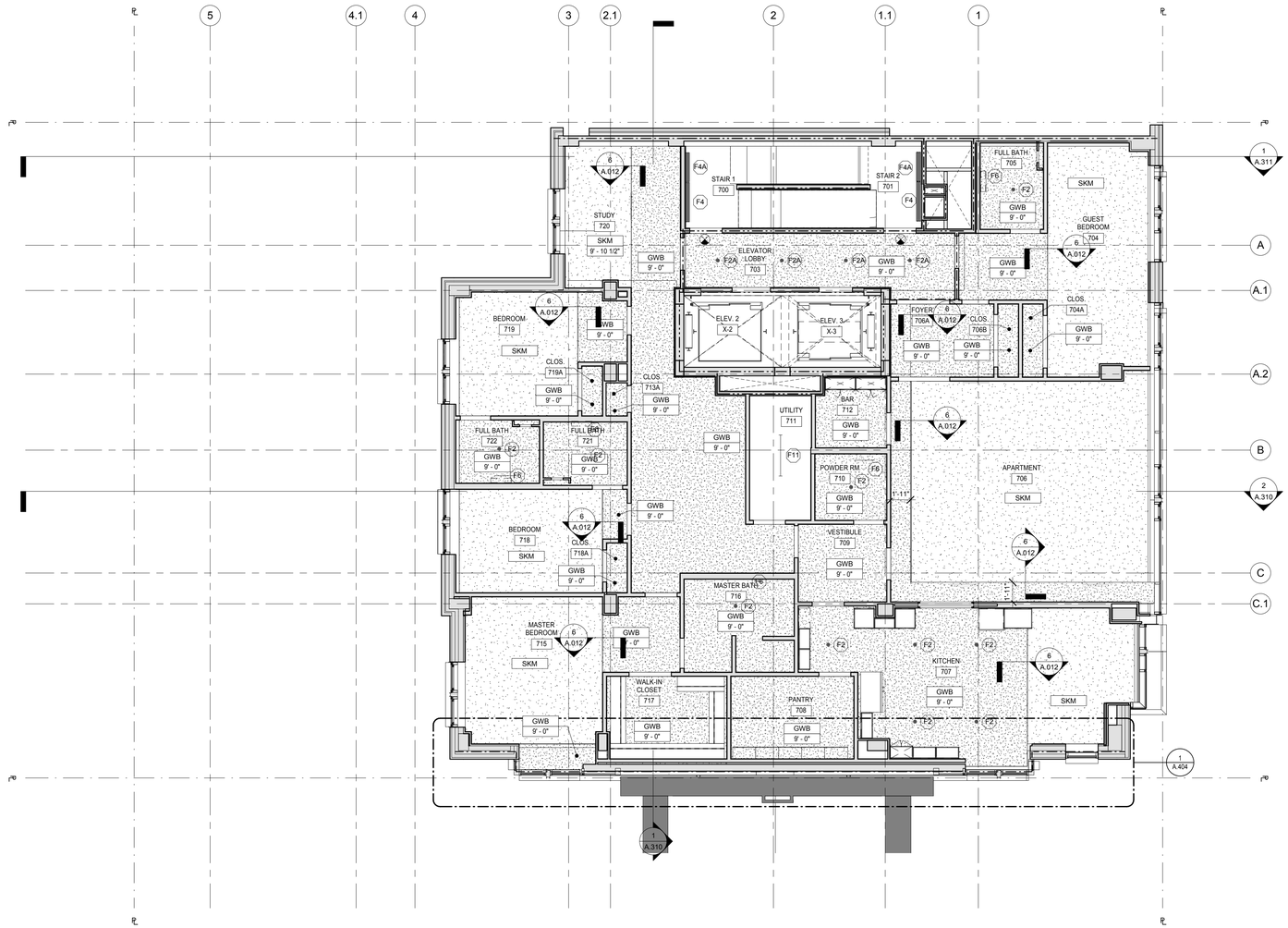

LEGEND

- Room Name — ROOM NAME
- 101 — ROOM NUMBER
- X — CEILING TYPE
- "-" — CEILING HEIGHT
- ILLUMINATED EXIT SIGN
- ILLUMINATED DIRECTIONAL EXIT SIGN
- WALL MOUNTED EMERGENCY LIGHT FIXTURE
- ACCESS PANEL
- SP — SPEAKER (NIC)
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- LIGHT FIXTURE - F1A
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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
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01.31.14		Guaranteed Max Price (80% CD)
07.01.13		80% CD Pricing Set

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
LEVEL 7 RCP

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 3/16" = 1'-0"
Signature & Seal:

Sheet Number:
A.127.00

NYC DOB Number: 121328919
Sheet: 33 of 81

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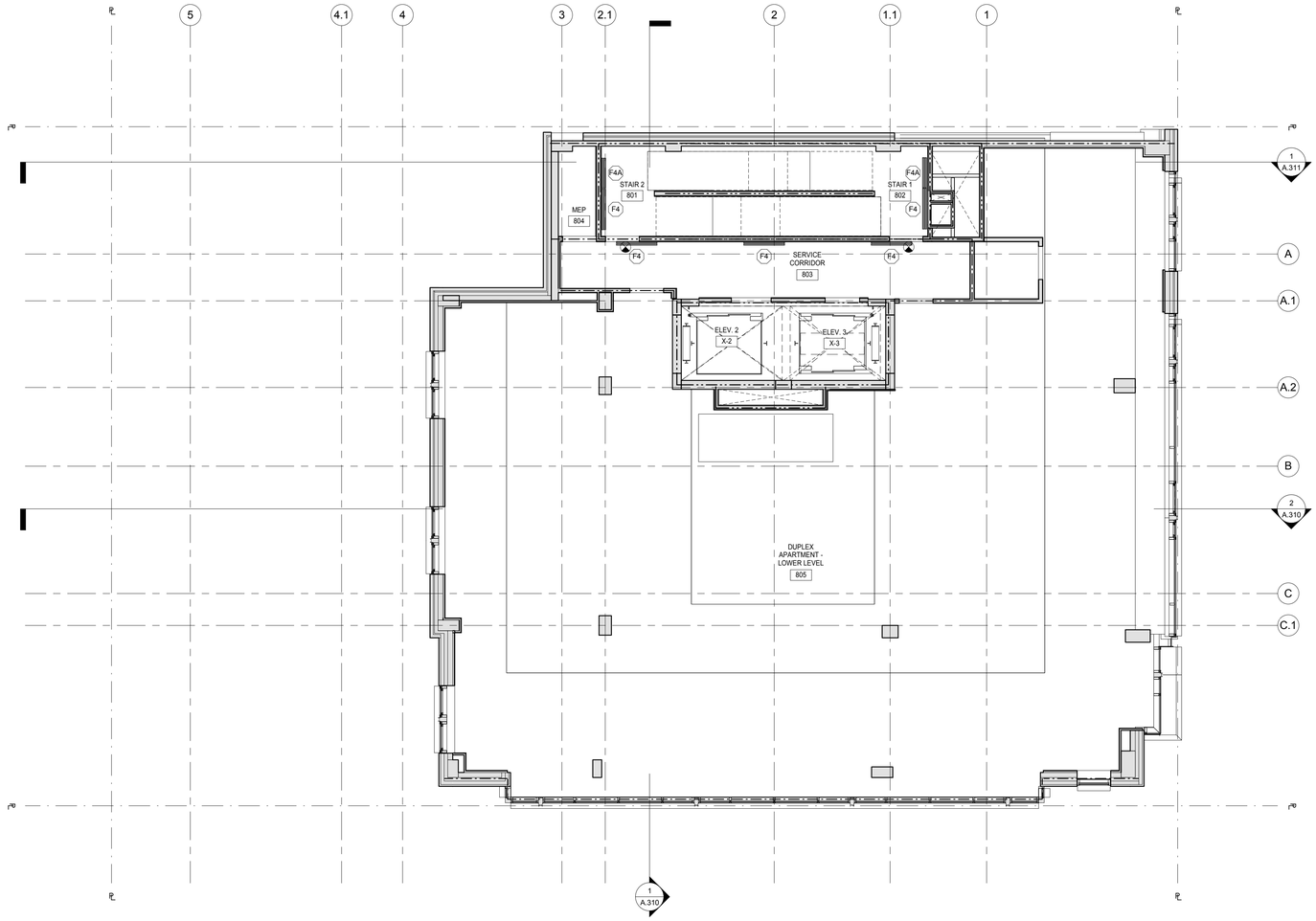

LEGEND

- Room Name / 101 — ROOM NAME / ROOM NUMBER
- X / '-0" — CEILING TYPE / CEILING HEIGHT
- ILLUMINATED EXIT SIGN
- ILLUMINATED DIRECTIONAL EXIT SIGN
- WALL MOUNTED EMERGENCY LIGHT FIXTURE
- ACCESS PANEL
- SP — SPEAKER (NIC)
- LIGHT FIXTURE - F1
- LIGHT FIXTURE - F1A
- LIGHT FIXTURE - F2
- LIGHT FIXTURE - F2A
- LIGHT FIXTURE - F4
- LIGHT FIXTURE - F4A
- LIGHT FIXTURE - F6
- LIGHT FIXTURE - F11
- LIGHT FIXTURE - F12
- LIGHT FIXTURE - F16
- LIGHT FIXTURE - F19
- MECHOSHADE DOUBLE - MS
- 24"x24" RETURN DIFFUSER
- 24"x24" SUPPLY DIFFUSER
- LINEAR DIFFUSER

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Shaugat Shaikh
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APPROVED
Under Directive 1 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
01.31.14		Guaranteed Max Price (80% CD)
07.01.13		80% CD Pricing Set

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
LEVEL 8 RCP

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 3/16" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT DANIEL G. WHITE NO. 14175 STATE OF NEW YORK

Sheet Number:
A.128.00

NYC DOB Number: 121328919
Sheet: 34 of 81

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3/19/2014 2:10:12 PM

DEPT OF BLDGS 121328919 Job Number

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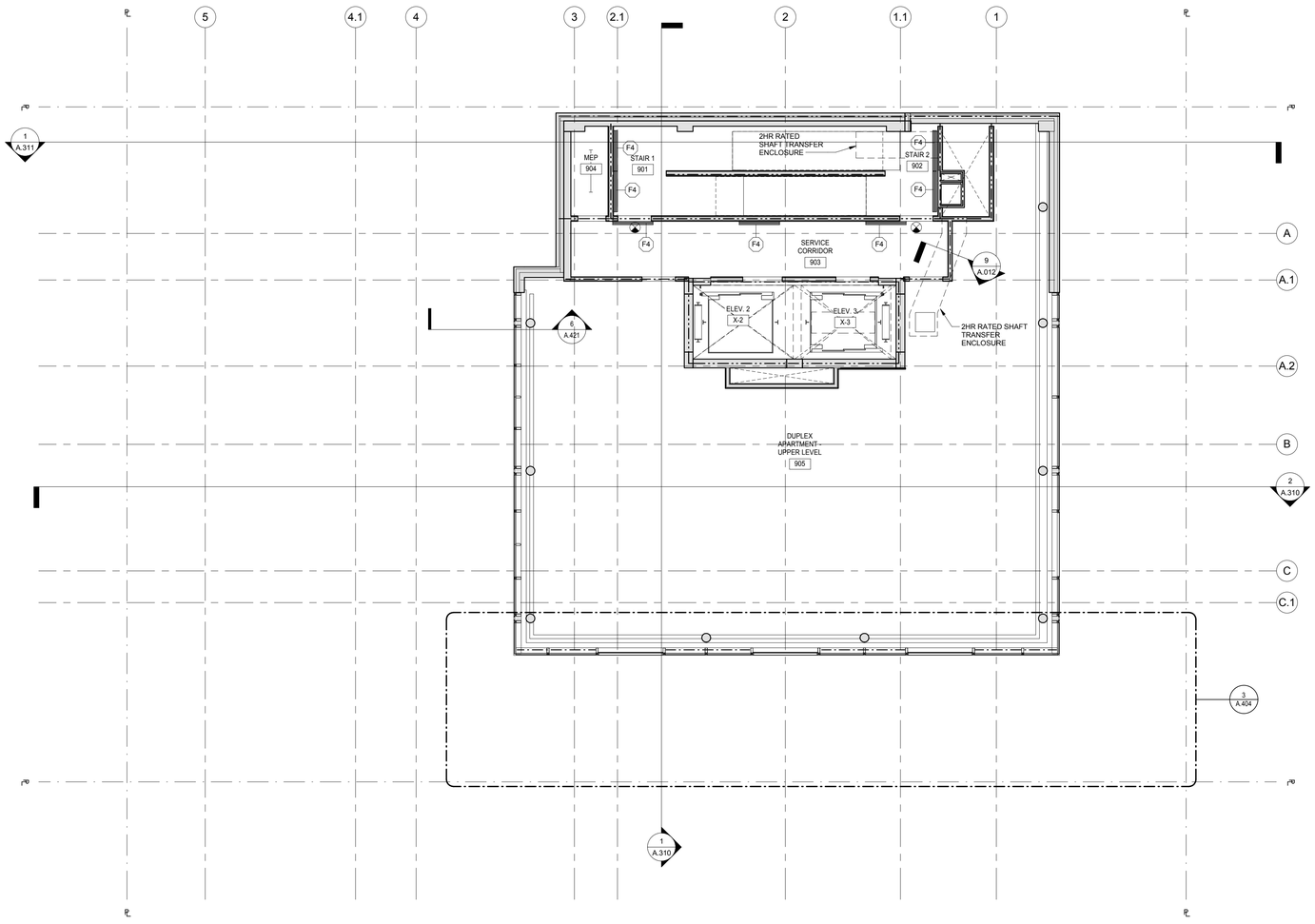

LEGEND

Room Name 101	ROOM NAME / ROOM NUMBER
X	CEILING TYPE
"-"	CEILING HEIGHT
	ILLUMINATED EXIT SIGN
	ILLUMINATED DIRECTIONAL EXIT SIGN
	WALL MOUNTED EMERGENCY LIGHT FIXTURE
	ACCESS PANEL
SP	SPEAKER (NIC)
	LIGHT FIXTURE - F1
	LIGHT FIXTURE - F1A
	LIGHT FIXTURE - F2
	LIGHT FIXTURE - F2A
	LIGHT FIXTURE - F4
	LIGHT FIXTURE - F4A
	LIGHT FIXTURE - F6
	LIGHT FIXTURE - F11
	LIGHT FIXTURE - F12
	LIGHT FIXTURE - F16
	LIGHT FIXTURE - F19
	MECHOSHADE DOUBLE - MS
	24"x24" RETURN DIFFUSER
	24"x24" SUPPLY DIFFUSER
	LINEAR DIFFUSER

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
08.06.14		Guaranteed Max Price (80% CD)
07.01.13		80% CD Pricing Set

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
LEVEL 10 RCP (PENTHOUSE)

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 3/16" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT
SAMUEL G. WHITE
NO. 14775
STATE OF NEW YORK

Sheet Number:
A.129.00

NYC DOB Number: 121328919
Sheet: 35 of 81

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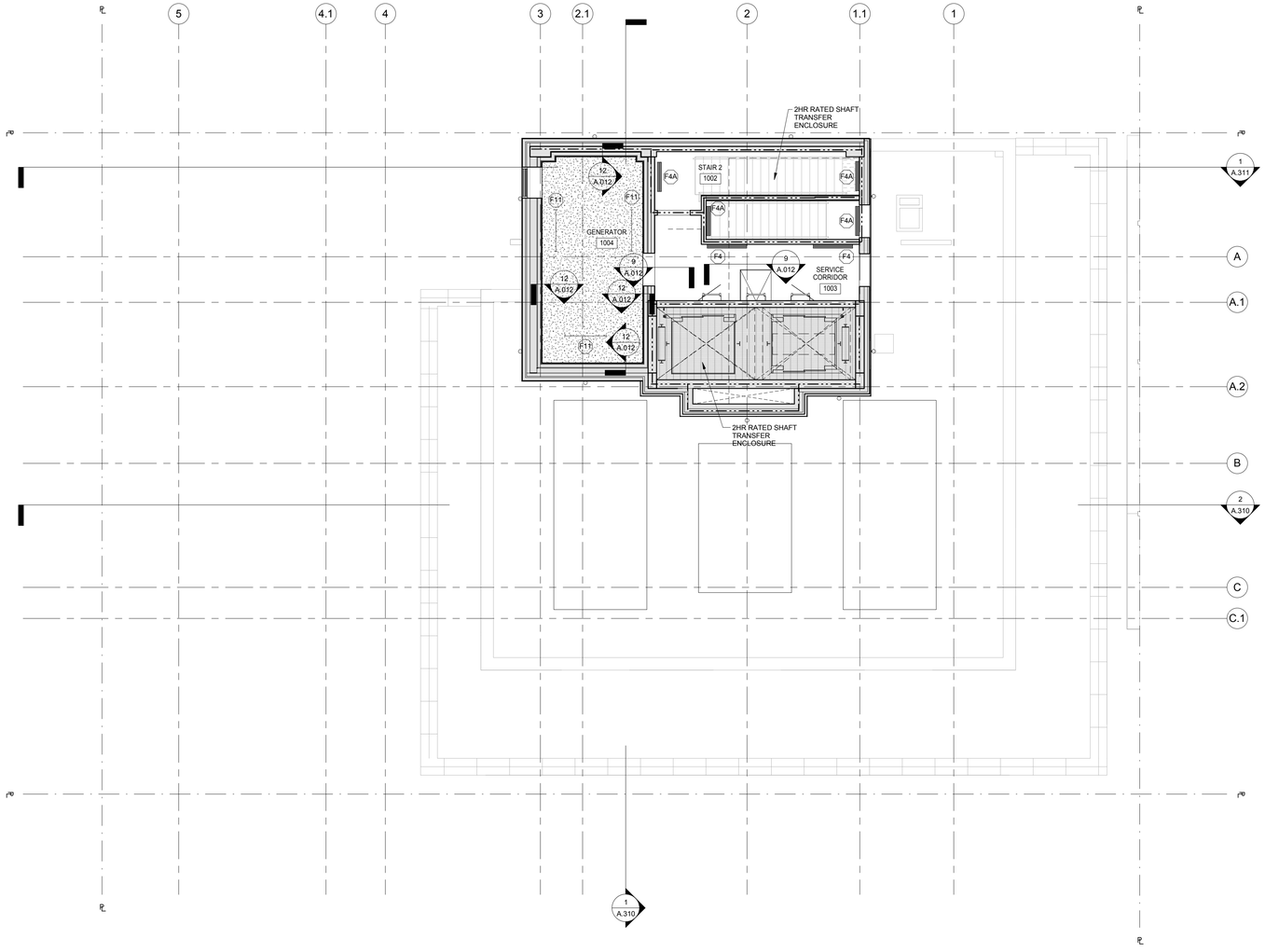
DEPT OF BLDGS 121328919 Job Number

ES5506962757 Scan Code



LEGEND

- Room Name / 101 — ROOM NAME, ROOM NUMBER
- X — CEILING TYPE
- CEILING HEIGHT
- ILLUMINATED EXIT SIGN
- ILLUMINATED DIRECTIONAL EXIT SIGN
- WALL MOUNTED EMERGENCY LIGHT FIXTURE
- ACCESS PANEL
- SP — SPEAKER (NIC)
- LIGHT FIXTURE - F1
- LIGHT FIXTURE - F1A
- LIGHT FIXTURE - F2
- LIGHT FIXTURE - F2A
- LIGHT FIXTURE - F4
- LIGHT FIXTURE - F4A
- LIGHT FIXTURE - F6
- LIGHT FIXTURE - F11
- LIGHT FIXTURE - F12
- LIGHT FIXTURE - F16
- LIGHT FIXTURE - F19
- MECHOSHADE DOUBLE - MS
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- 24"x24" SUPPLY DIFFUSER
- LINEAR DIFFUSER

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Shaugat Shaikh

Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
01.31.14		Guaranteed Max Price (80% CD)
07.01.13		80% CD Pricing Set

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
LEVEL 11 RCP (BULKHEAD)

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 3/16" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT DANIEL G WHITE 14175 STATE OF NEW YORK

Sheet Number:
A.130.00

NYC DOB Number: 121328919
Sheet: 36 of 81

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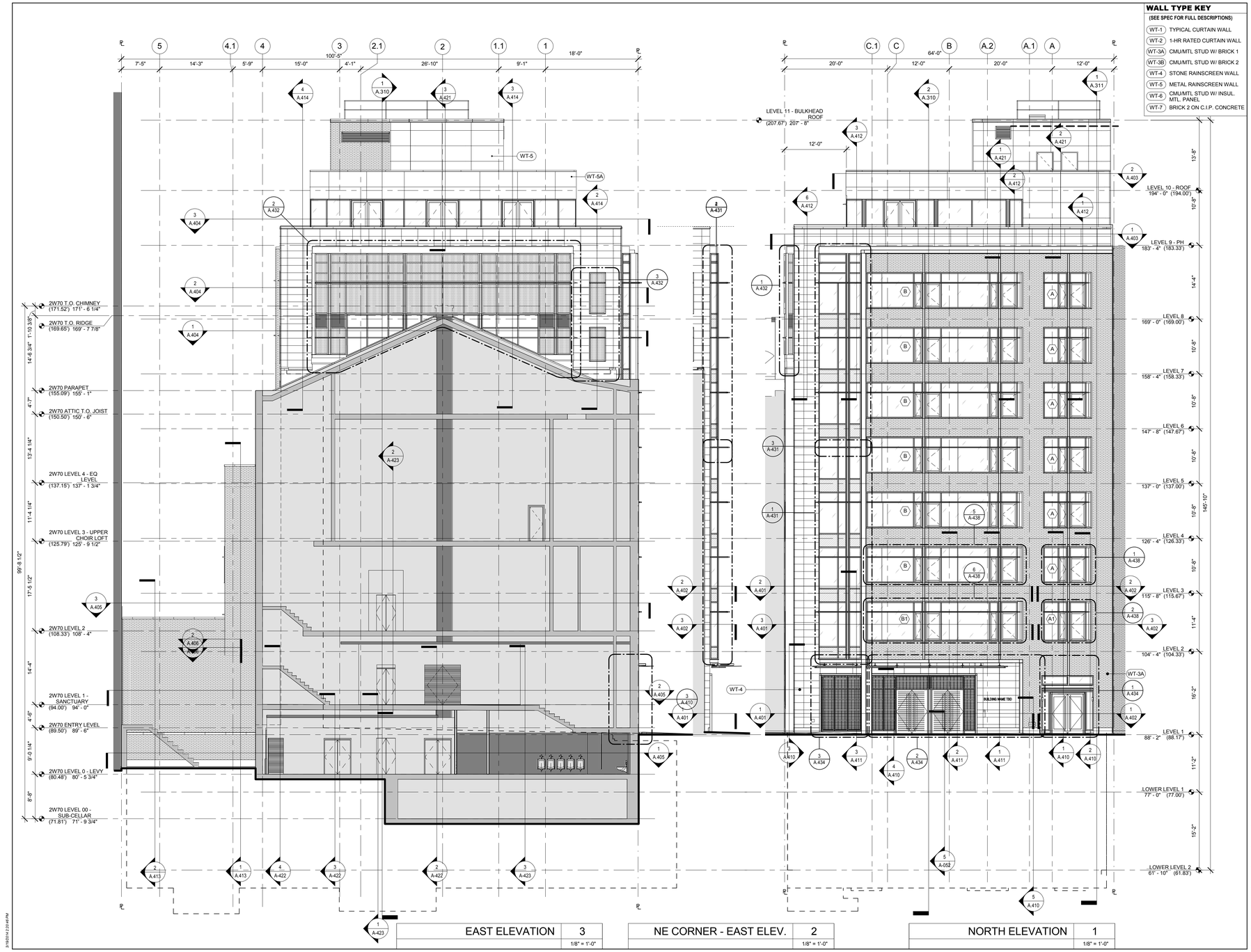

EAST ELEVATION	3
	1/8" = 1'-0"

NE CORNER - EAST ELEV.	2
	1/8" = 1'-0"

NORTH ELEVATION	1
	1/8" = 1'-0"

WALL TYPE KEY

(SEE SPEC FOR FULL DESCRIPTIONS)

WT-1	TYPICAL CURTAIN WALL
WT-2	1-HR RATED CURTAIN WALL
WT-3A	CMU/MTL STUD W/ BRICK 1
WT-3B	CMU/MTL STUD W/ BRICK 2
WT-4	STONE RAINSCREEN WALL
WT-5	METAL RAINSCREEN WALL
WT-6	CMU/MTL STUD W/ INSUL. MTL. PANEL
WT-7	BRICK 2 ON C.I.P. CONCRETE

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
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01.31.14		Guaranteed Max Price (80% CD)
07.01.13		80% CD Pricing Set
05.10.13		DOB Zoning & Egress

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
BUILDING ELEVATIONS - NORTH & EAST

Project Number: 12639	*Signature & Seal:* REGISTERED ARCHITECT SAMUEL G. WHITE NO. 14173 STATE OF NEW YORK
Drawn By: Author	
Checked By: Checker	
Scale: As indicated	

Sheet Number:
A.201.00

NYC DOB Number: 121328919
Sheet: 37 of 81

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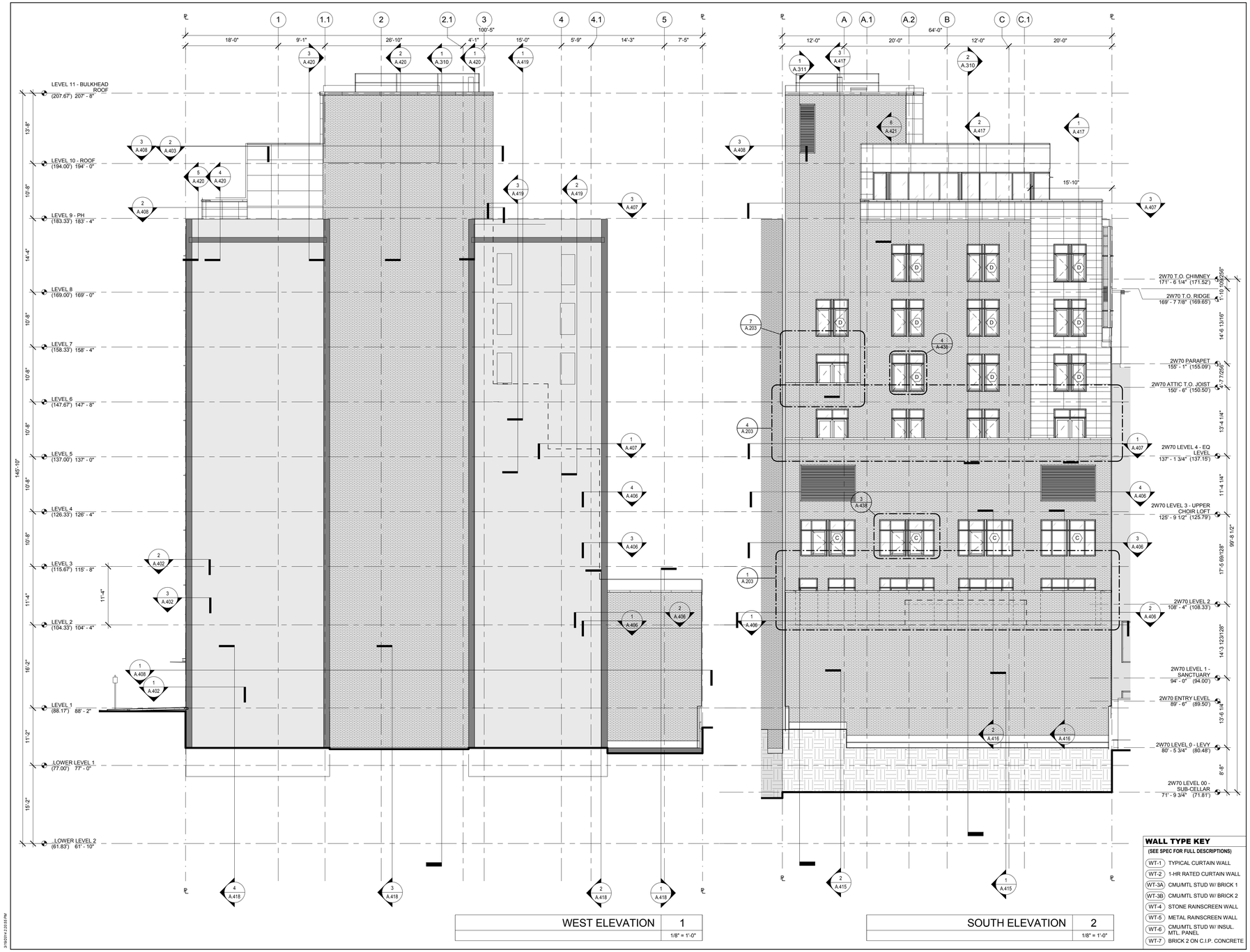

WEST ELEVATION 1 — 1/8" = 1'-0"

SOUTH ELEVATION 2 — 1/8" = 1'-0"

WALL TYPE KEY
(SEE SPEC FOR FULL DESCRIPTIONS)

WT-1	TYPICAL CURTAIN WALL
WT-2	1-HR RATED CURTAIN WALL
WT-3A	CMU/MTL STUD W/ BRICK 1
WT-3B	CMU/MTL STUD W/ BRICK 2
WT-4	STONE RAINSCREEN WALL
WT-5	METAL RAINSCREEN WALL
WT-6	CMU/MTL STUD W/ INSUL. MTL. PANEL
WT-7	BRICK 2 ON C.I.P. CONCRETE

DEPT OF BLDGS 121328919 Job Number
ES327309551 Scan Code

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
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01.31.14		Guaranteed Max Price (80% CD)
07.01.13		80% CD Pricing Set
05.10.13		DOB Zoning & Egress

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
BUILDING ELEVATIONS - SOUTH & WEST

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated
Signature & Seal:
REGISTERED ARCHITECT SAMUEL G WHITE NO. 14775 STATE OF NEW YORK

Sheet Number:
A.202.00

NYC DOB Number: 121328919
Sheet: 38 of 81

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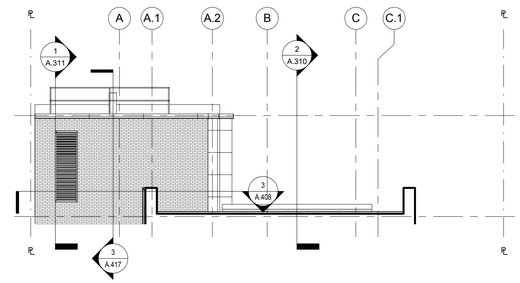
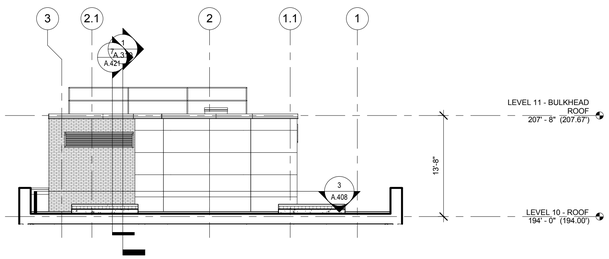
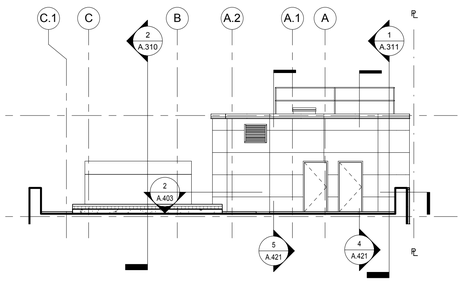


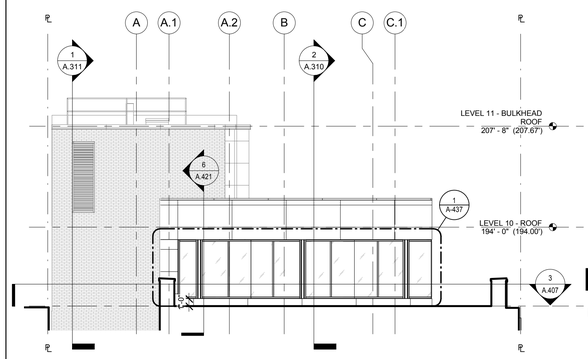
BULKHEAD SOUTH ELEVATION | 9 | 1/8" = 1'-0"



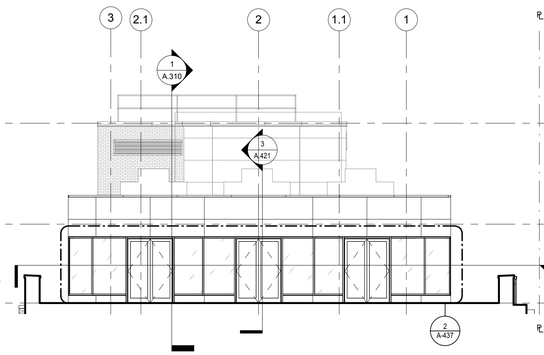
BULKHEAD EAST ELEVATION | 6 | 1/8" = 1'-0"



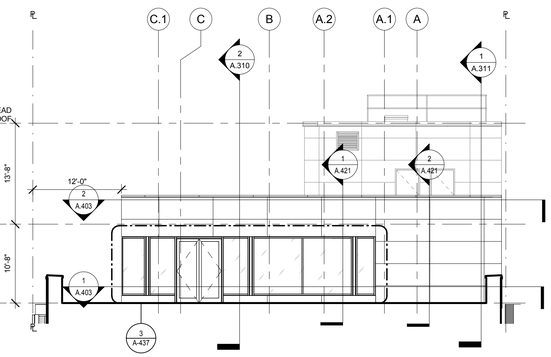
BULKHEAD NORTH ELEVATION | 3 | 1/8" = 1'-0"



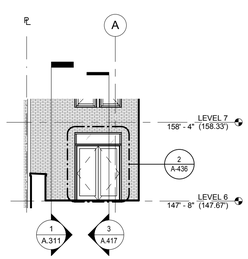
PENTHOUSE SOUTH ELEVATION | 8 | 1/8" = 1'-0"



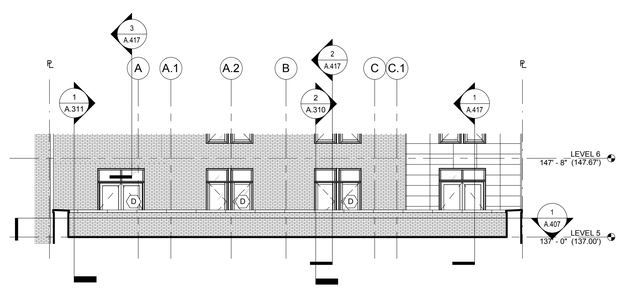
PENTHOUSE EAST ELEVATION | 5 | 1/8" = 1'-0"



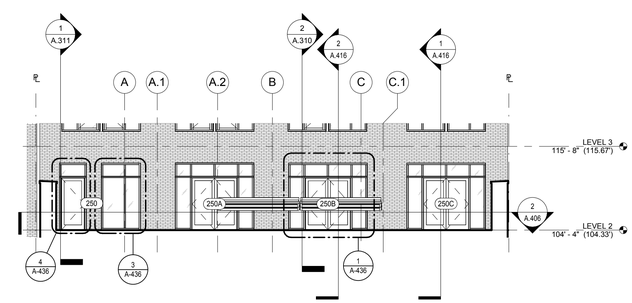
PENTHOUSE NORTH ELEVATION | 2 | 1/8" = 1'-0"



SOUTH ELEV @ LEVEL 6 TERRACE | 7 | 1/8" = 1'-0"



SOUTH ELEV @ LEVEL 5 TERRACE | 4 | 1/8" = 1'-0"



SOUTH ELEV @ LEVEL 2 TERRACE | 1 | 1/8" = 1'-0"

WALL TYPE KEY

(SEE SPEC FOR FULL DESCRIPTIONS)

WT-1	TYPICAL CURTAIN WALL
WT-2	1-HR RATED CURTAIN WALL
WT-3A	CMU/MTL STUD W/ BRICK 1
WT-3B	CMU/MTL STUD W/ BRICK 2
WT-4	STONE RAINSCREEN WALL
WT-5	METAL RAINSCREEN WALL
WT-6	CMU/MTL STUD W/ INSUL. MTL. PANEL
WT-7	BRICK 2 ON C.I.P. CONCRETE

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
01.31.14		Guaranteed Max Price (80% CD)
07.01.13		80% CD Pricing Set
05.10.13		DOB Zoning & Egress

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
BUILDING ELEVATIONS - PENTHOUSE & BULKHEAD

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated
Signature & Seal:

Sheet Number:
A.203.00

NYC DOB Number: 121328919
Sheet: 39 of 81

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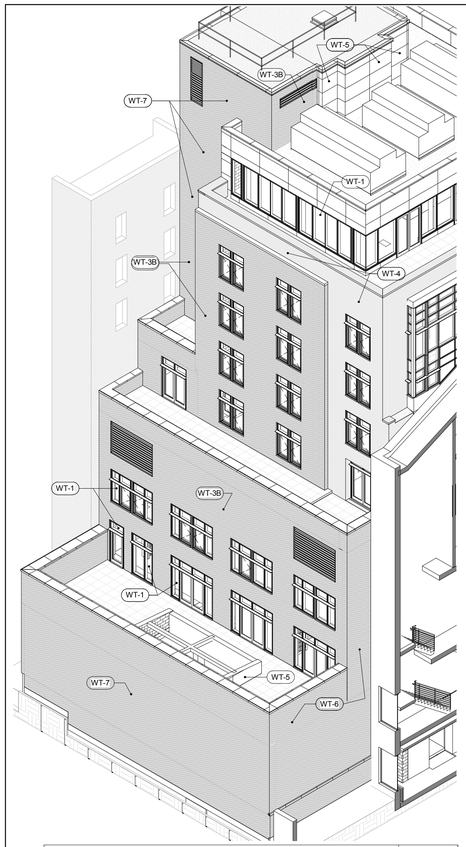
ES824856672 Scan Code



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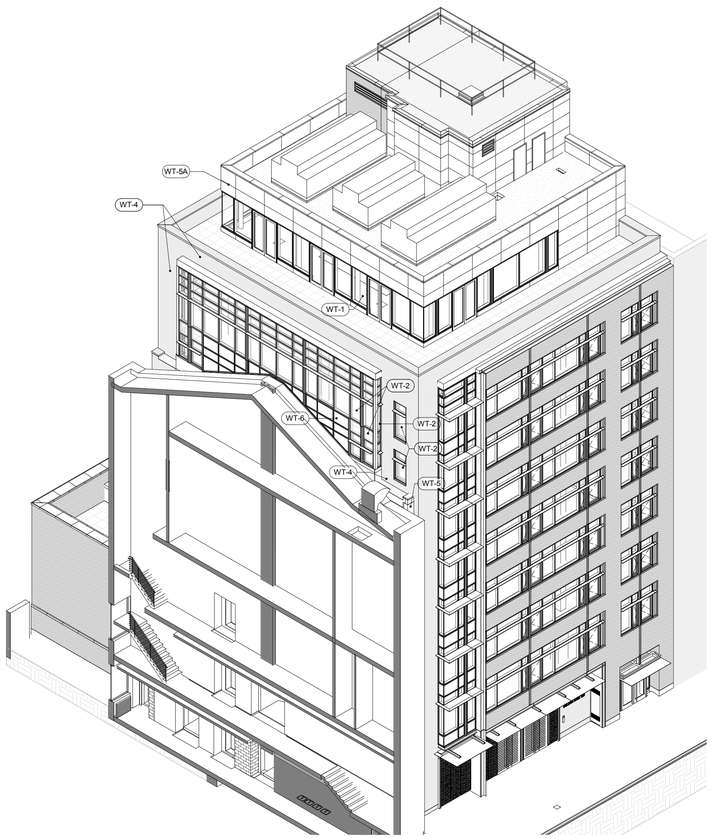
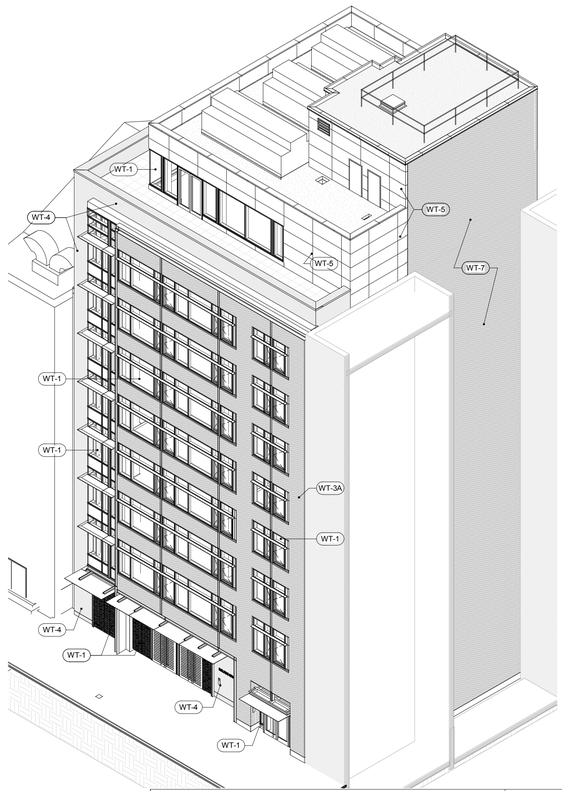
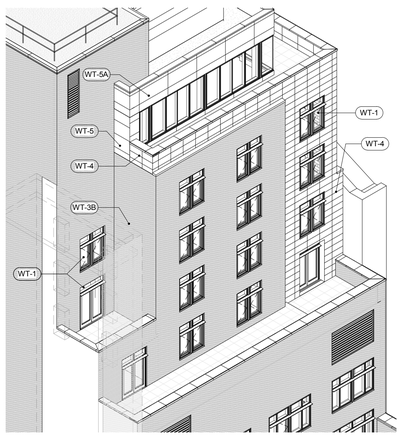


NE AXONOMETRIC VIEW | 2



NW AXONOMETRIC VIEW | 1



SW VIEW OF UPPER TERRACES | 4

GLAZING TYPE KEY	
NOTE: REFER TO SPEC SECTION 084413 FOR FULL DESCRIPTION OF GLASS TYPES	
GL-1	TYPICAL VISION IGU
GL-2	CURTAIN WALL SPANDREL IGU
GL-3	FIRE-RATED VISION IGU
GL-4	FIRE-RATED SPANDREL IGU
GL-5	ENTRANCE TYPICAL VISION IGU
GL-6	ENTRANCE CUSTOM PATTERN IGU
GL-7	SOLERA SKYLIGHT GLAZING
GL-8	INTERIOR STOREFRONT GLAZING
GL-9	INTERIOR FIRE-RATED STOREFRONT GLAZING

WALL TYPE KEY	
NOTE: REFER TO SPEC SECTION 084413 FOR FULL DESCRIPTION OF WALL TYPES	
WT-1	TYPICAL CURTAIN WALL
WT-2	1-HR FIRE-RATED CURTAIN WALL
WT-3A	CMU/MTL STUD W/ BRICK 1
WT-3B	CMU/MTL STUD W/ BRICK 2
WT-4	STONE RAINSCREEN WALL
WT-5	METAL RAINSCREEN WALL
WT-6	CMU/MTL STUD W/ INSUL. MTL. PANEL
WT-7	BRICK 2 ON C.I.P. CONCRETE

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
01.31.14		Guaranteed Max Price (80% CD)
07.01.13		80% CD Pricing Set

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
AXONOMETRIC VIEWS

Project Number: 12639
Drawn By: CCR
Checked By: Checker
Scale: 12" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT SAMUEL G. WHITE NO. 14775 STATE OF NEW YORK

Sheet Number:
A.204.00

NYC DOB Number: 121328919
Sheet: 40 of 81

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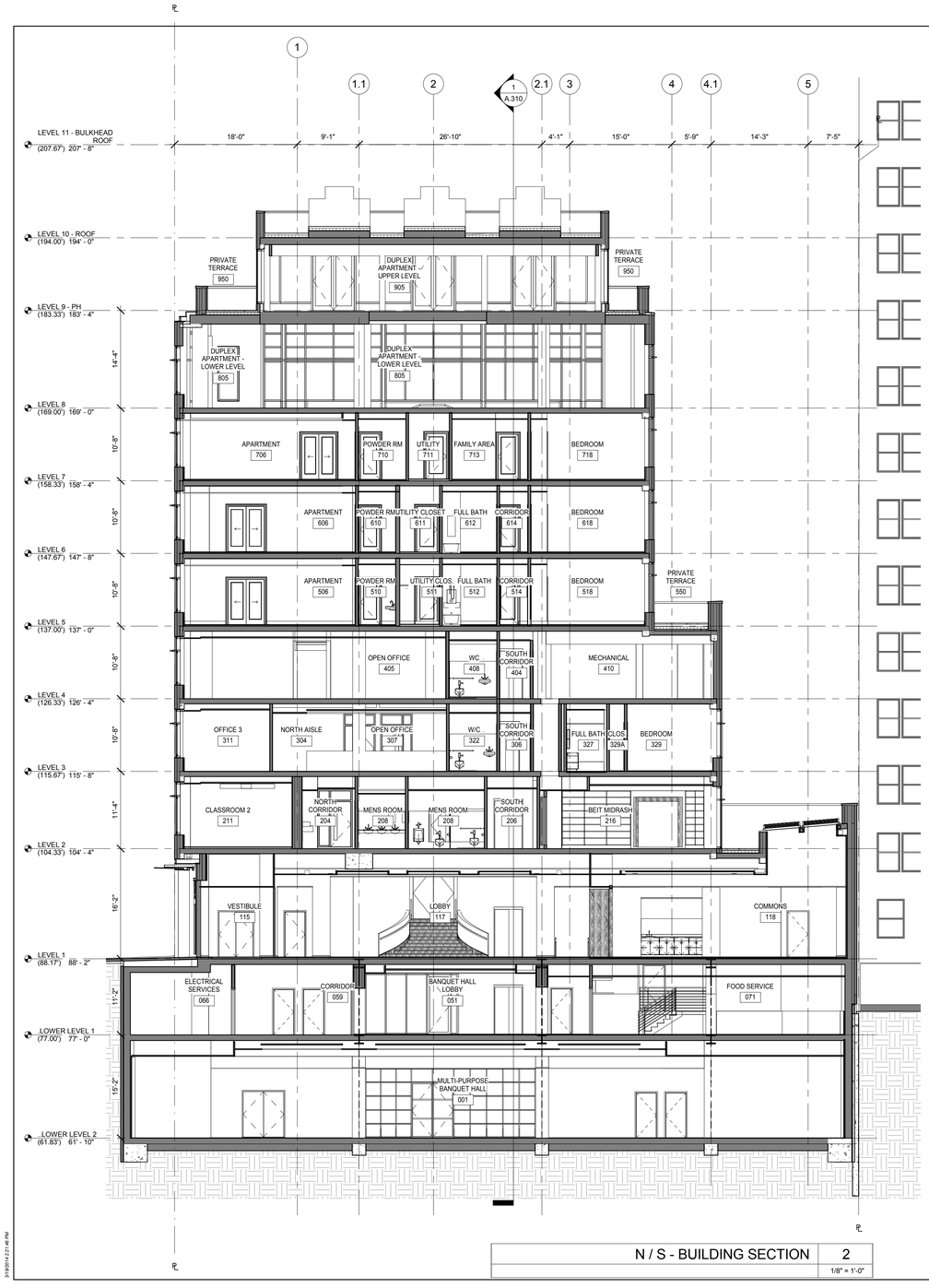
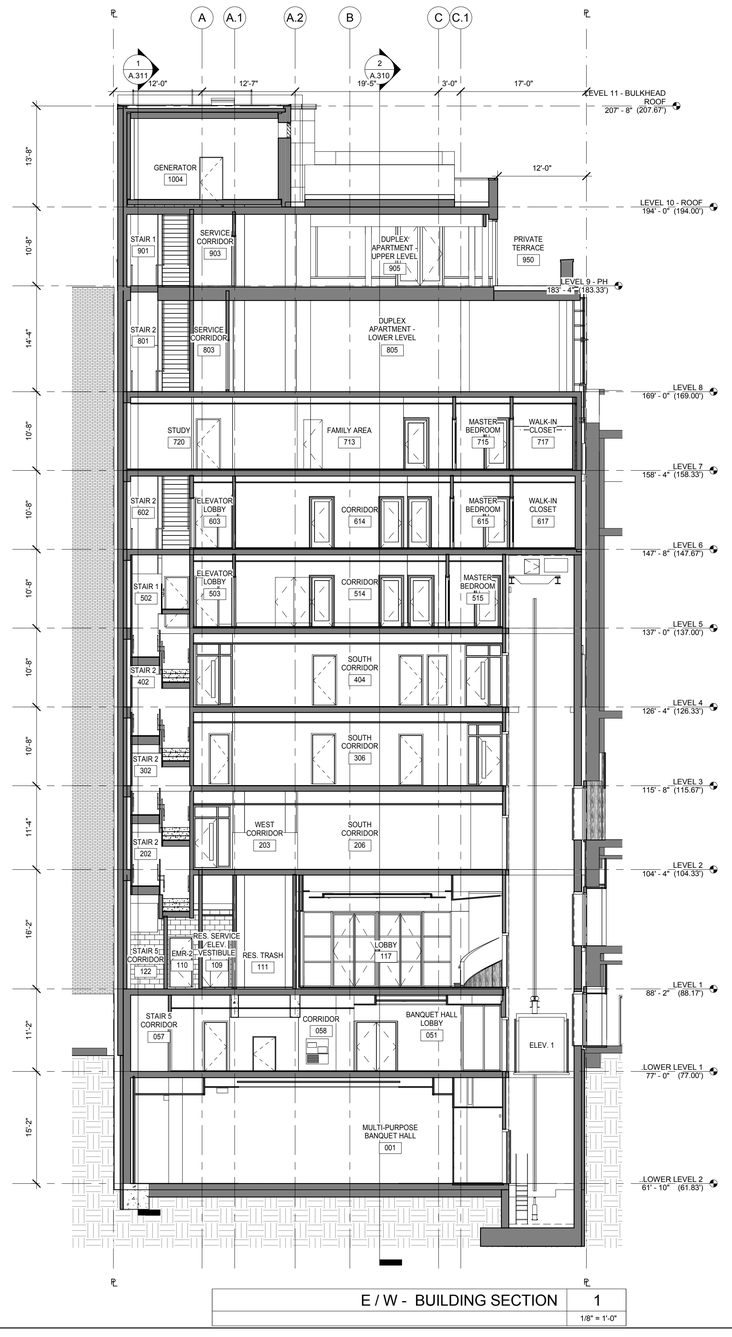


N / S - BUILDING SECTION | 2 | 1/8" = 1'-0"



E / W - BUILDING SECTION | 1 | 1/8" = 1'-0"

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Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
01.31.14		Guaranteed Max Price (80% CD)
07.01.13		80% CD Pricing Set
05.10.13		DOB Zoning & Egress

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
BUILDING SECTIONS

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 1/8" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT DANIEL G. WHITE 14179 STATE OF NEW YORK

Sheet Number:
A.310.00

NYC DOB Number: 121328919
Sheet: 41 of 81

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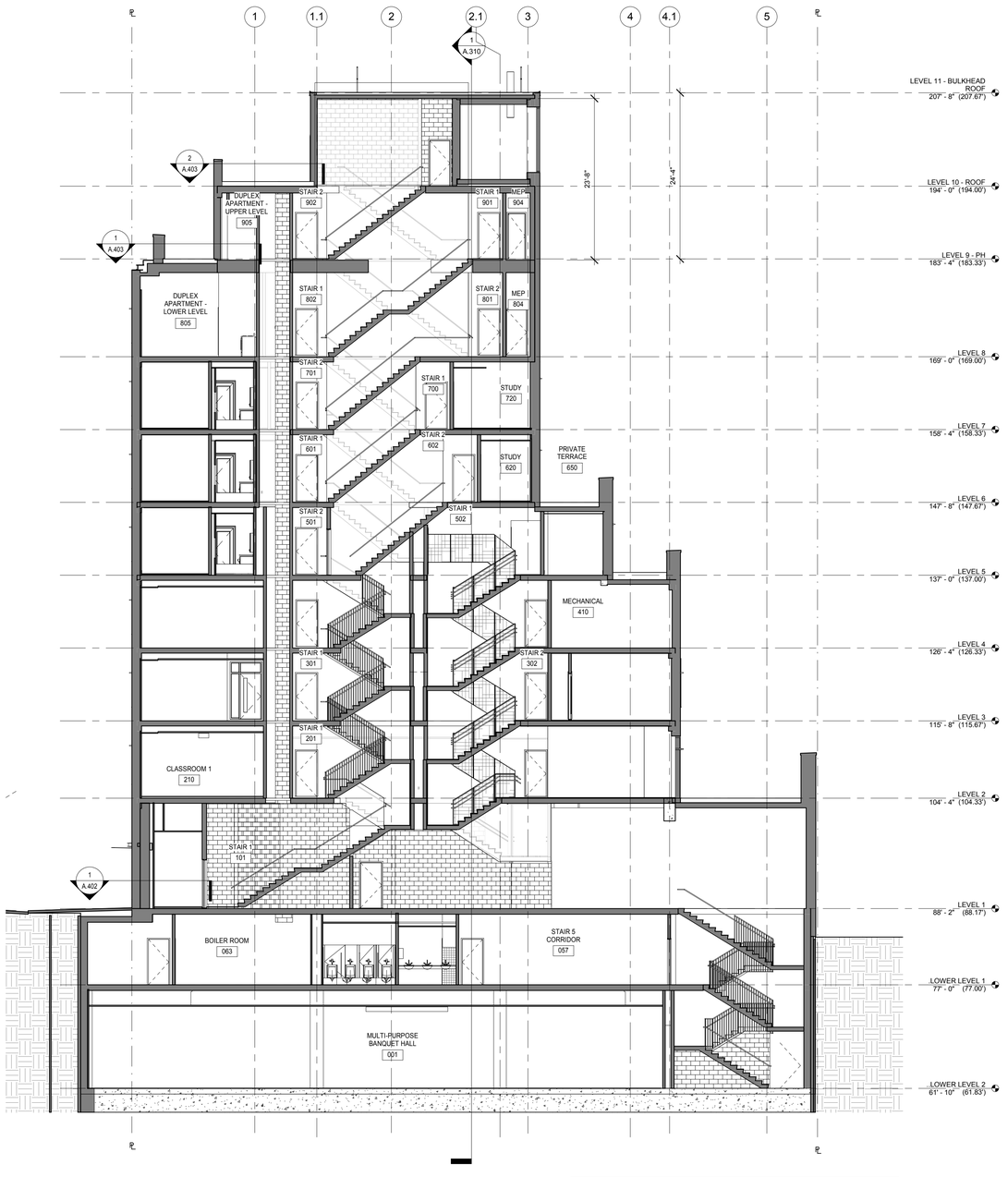

E / W - STAIR 1 & 2 BUILDING SECTION | 1 | 1/8" = 1'-0"

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NYC Development Hub

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07.01.13		80% CD Pricing Set
05.10.13		DOB Zoning & Egress

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
BUILDING SECTIONS

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 1/8" = 1'-0"
Signature & Seal:

Sheet Number:
A.311.00

NYC DOB Number: 121328919
Sheet: 42 of 81

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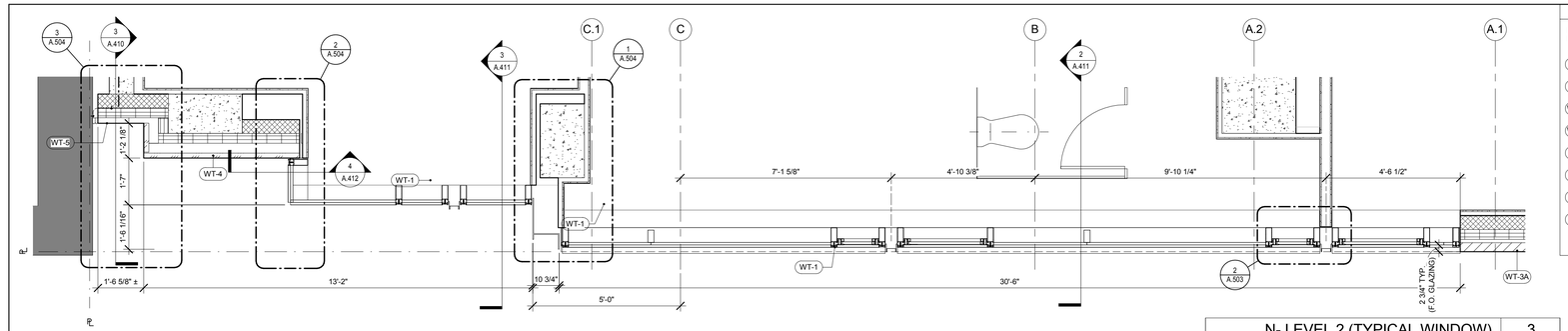
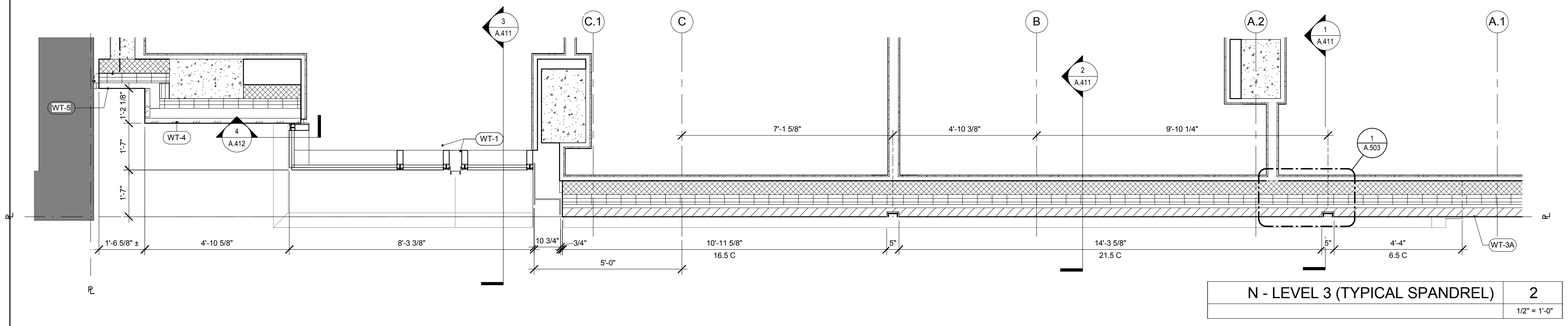
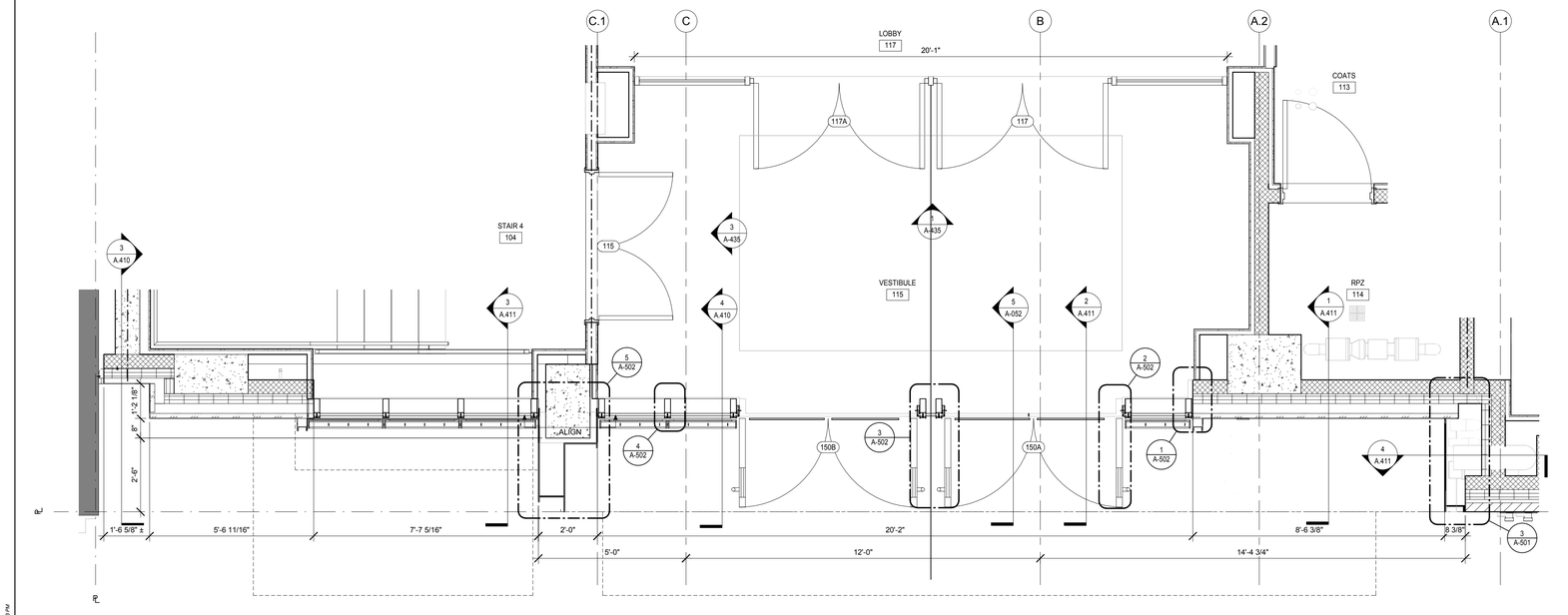


N- LEVEL 2 (TYPICAL WINDOW) | 3 | 1/2" = 1'-0"



N - LEVEL 3 (TYPICAL SPANDREL) | 2 | 1/2" = 1'-0"



N - MAIN ENTRANCE & VESTIBULE | 1 | 1/2" = 1'-0"

3/19/2014 2:23:31 PM

WALL TYPE KEY

NOTE: REFER TO SPEC SECTION 084413 FOR FULL DESCRIPTION OF WALL TYPES

- WT-1 TYPICAL CURTAIN WALL
- WT-2 1-HR FIRE-RATED CURTAIN WALL
- WT-3A CMU/MTL STUD W/ BRICK 1
- WT-3B CMU/MTL STUD W/ BRICK 2
- WT-4 STONE RAINSCREEN WALL
- WT-5 METAL RAINSCREEN WALL
- WT-6 CMU/MTL STUD W/ INSUL. MTL. PANEL
- WT-7 BRICK 2 ON C.I.P. CONCRETE

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
01.31.14		Guaranteed Max Price (80% CD)
07.01.13		80% CD Pricing Set

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
PLAN SECTIONS - NORTH

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated

Signature & Seal:
REGISTERED ARCHITECT SAMUEL G WHITE NO. 14175 STATE OF NEW YORK

Sheet Number:
A.401.00

NYC DOB Number: 121328919
Sheet: 43 of 81

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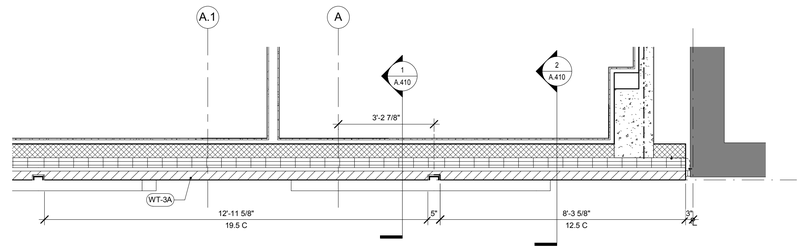
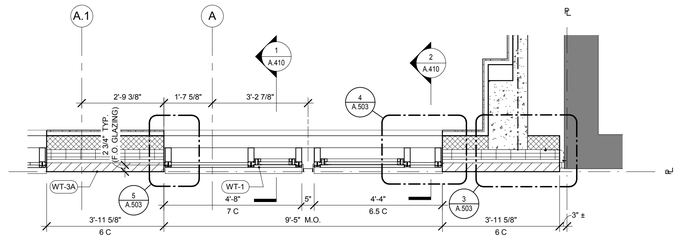
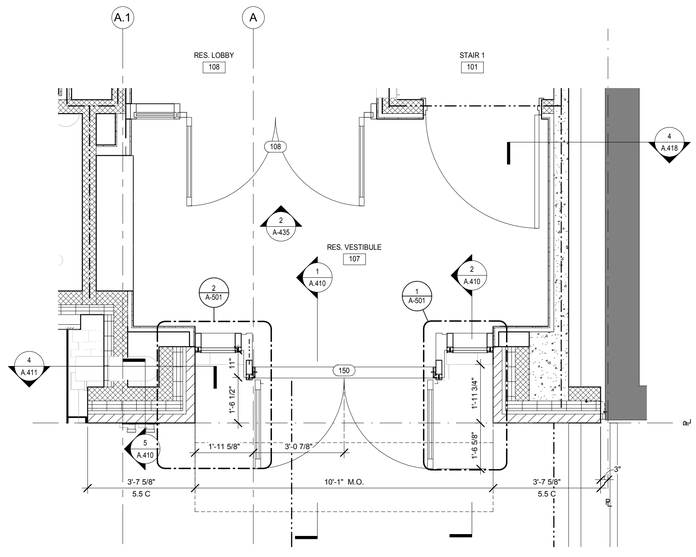
Opp. Ex. 1001 Page 43 of 205



N - SPANDREL TYP (WEST SIDE) | 2
1/2" = 1'-0"



N- WINDOW TYPICAL (WEST SIDE) | 3
1/2" = 1'-0"



N - RESIDENTIAL ENTRANCE & VESTIBULE | 1
1/2" = 1'-0"

WALL TYPE KEY

NOTE: REFER TO SPEC SECTION 084413 FOR FULL DESCRIPTION OF WALL TYPES

WT-1	TYPICAL CURTAIN WALL
WT-2	1-HR FIRE-RATED CURTAIN WALL
WT-3A	CMU/MTL STUD W/ BRICK 1
WT-3B	CMU/MTL STUD W/ BRICK 2
WT-4	STONE RAINSCREEN WALL
WT-5	METAL RAINSCREEN WALL
WT-6	CMU/MTL STUD W/ INSUL. MTL. PANEL
WT-7	BRICK 2 ON C.I.P. CONCRETE

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Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
01.31.14		Guaranteed Max Price (80% CD)

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
PLAN SECTIONS - NORTH

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated
Signature & Seal:

Sheet Number:
A.402.00

NYC DOB Number: 121328919
Sheet: 44 of 81

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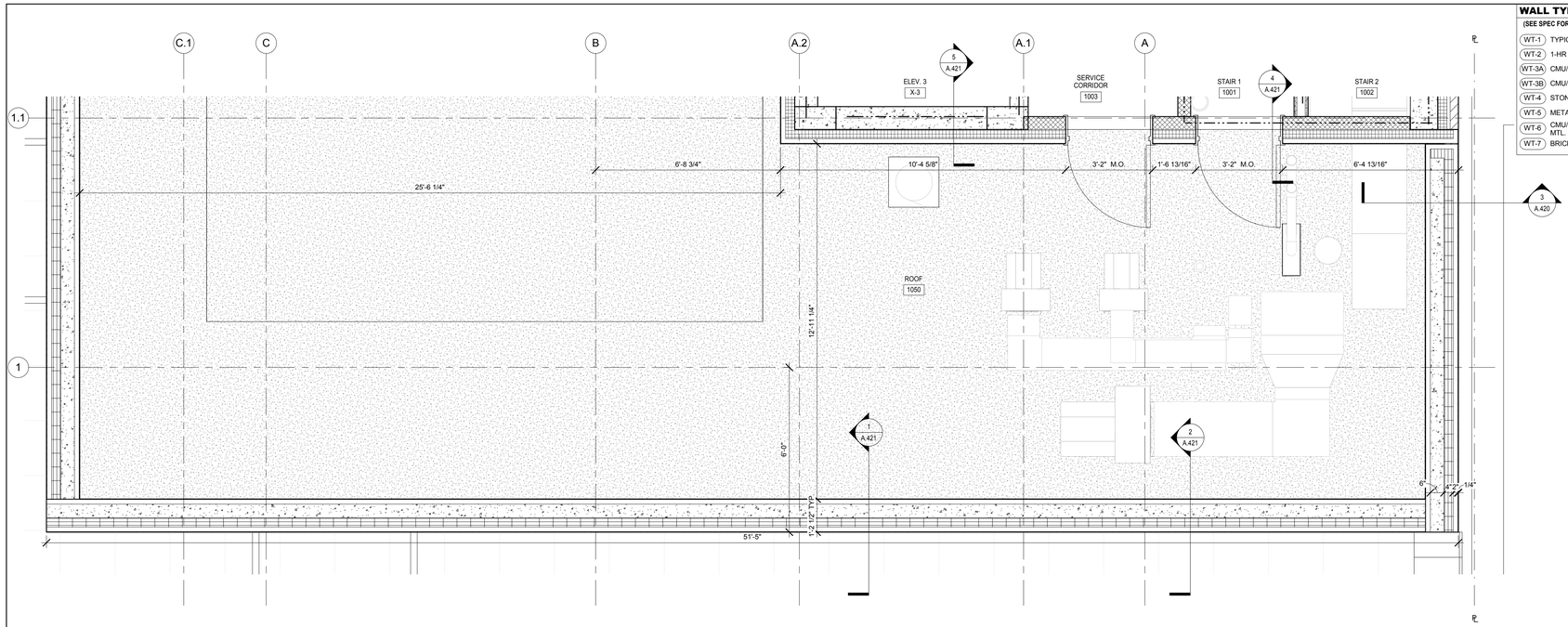
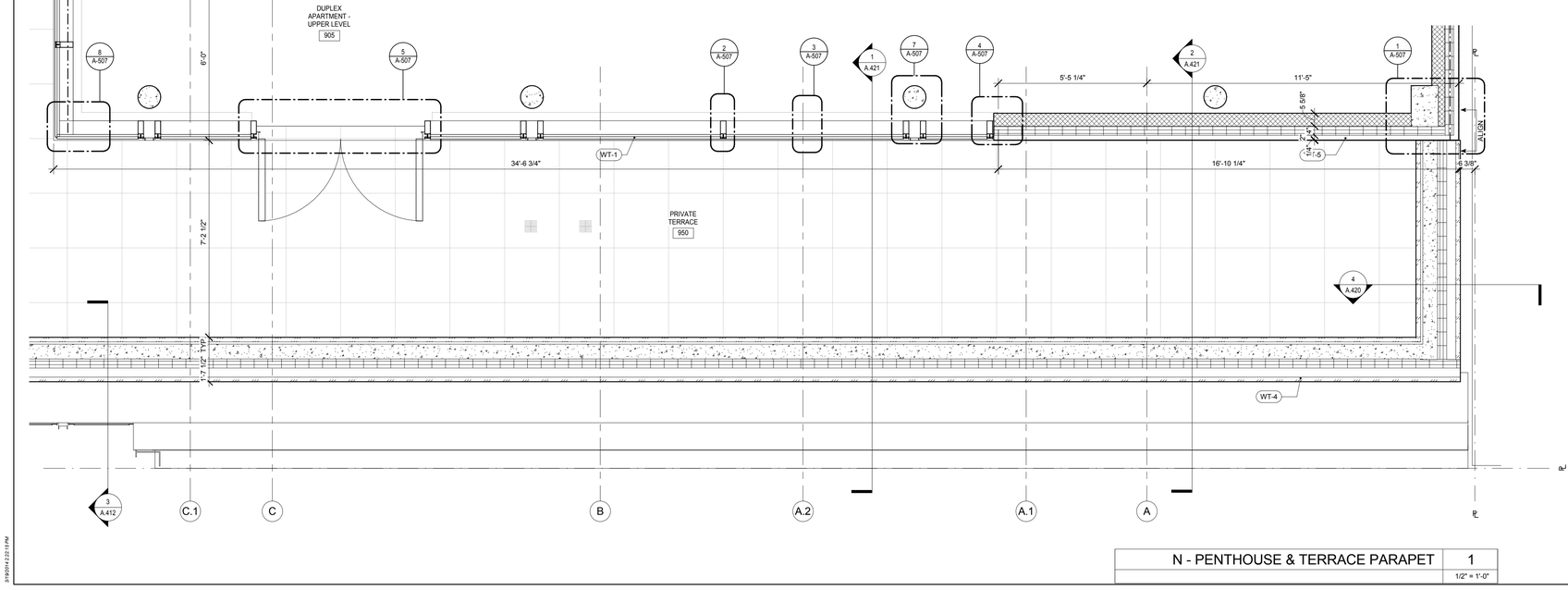


N - BULKHEAD | 2 | 1/2" = 1'-0"



N - PENTHOUSE & TERRACE PARAPET | 1 | 1/2" = 1'-0"

3/19/2014 2:23:19 PM

WALL TYPE KEY

(SEE SPEC FOR FULL DESCRIPTIONS)

WT-1	TYPICAL CURTAIN WALL
WT-2	1-HR RATED CURTAIN WALL
WT-3A	CMU/MTL STUD W/ BRICK 1
WT-3B	CMU/MTL STUD W/ BRICK 2
WT-4	STONE RAINSCREEN WALL
WT-5	METAL RAINSCREEN WALL
WT-6	CMU/MTL STUD W/ INSUL. MTL. PANEL
WT-7	BRICK 2 ON C.I.P. CONCRETE

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Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
01.31.14		Guaranteed Max Price (80% CD)

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
PLAN SECTIONS- NORTH PH

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated

Signature & Seal:
REGISTERED ARCHITECT
DANIEL G. HANLEY
026 14175
STATE OF NEW YORK

Sheet Number:
A.403.00

NYC DOB Number: 121328919
Sheet: 45 of 81

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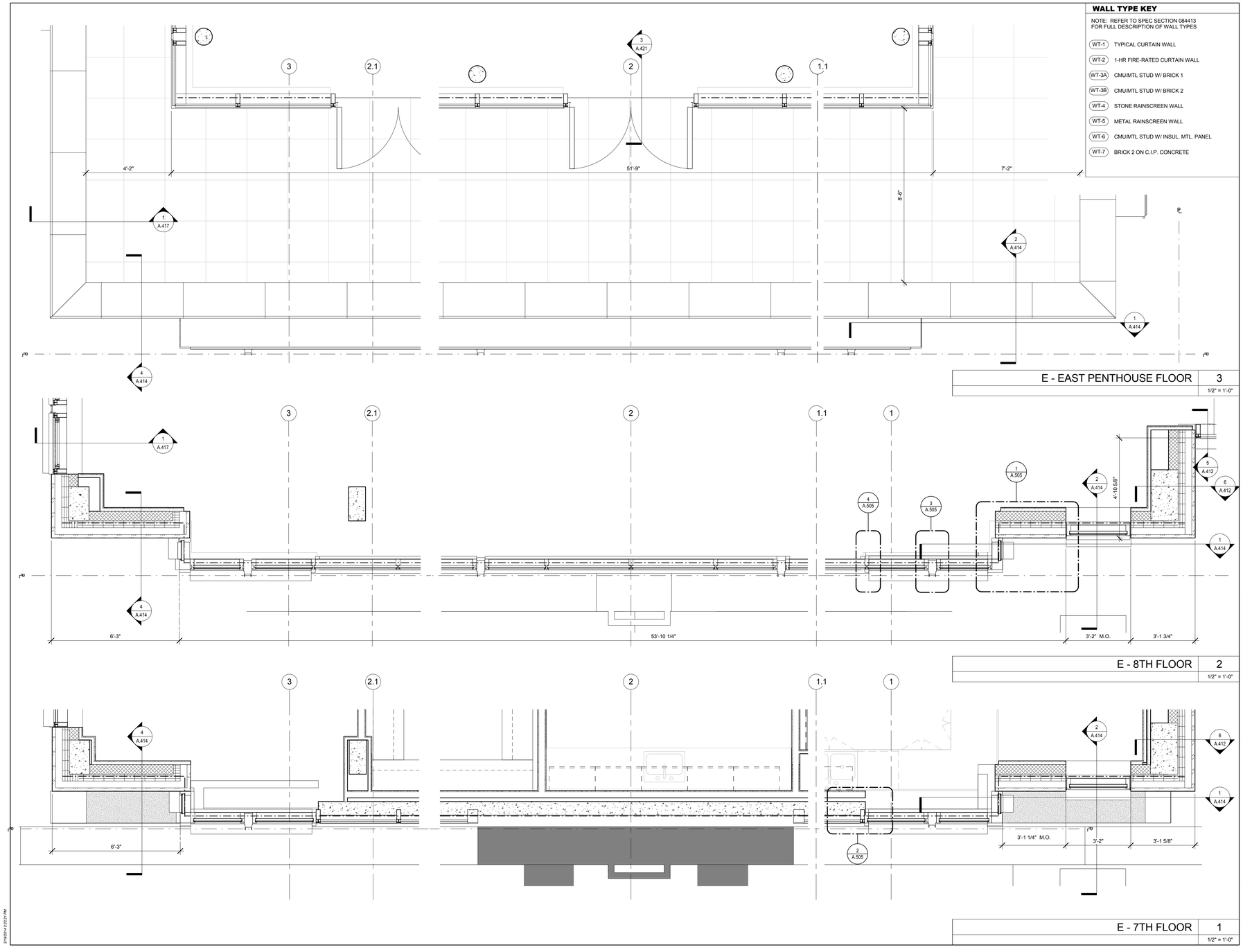

E - EAST PENTHOUSE FLOOR 3 1/2" = 1'-0"

E - 8TH FLOOR 2 1/2" = 1'-0"

E - 7TH FLOOR 1 1/2" = 1'-0"

WALL TYPE KEY

NOTE: REFER TO SPEC SECTION 084413 FOR FULL DESCRIPTION OF WALL TYPES

WT-1	TYPICAL CURTAIN WALL
WT-2	1-HR FIRE-RATED CURTAIN WALL
WT-3A	CMU/MTL STUD W/ BRICK 1
WT-3B	CMU/MTL STUD W/ BRICK 2
WT-4	STONE RAINSCREEN WALL
WT-5	METAL RAINSCREEN WALL
WT-6	CMU/MTL STUD W/ INSUL. MTL. PANEL
WT-7	BRICK 2 ON C.I.P. CONCRETE

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Shauqat Shaikh
Buildings
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NYC Development Hub

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07.01.13		80% CD Pricing Set

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
PLAN SECTIONS - EAST UPPER FLOORS

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated
Signature & Seal:

Sheet Number:
A.404.00

NYC DOB Number: 121328919
Sheet: 46 of 81

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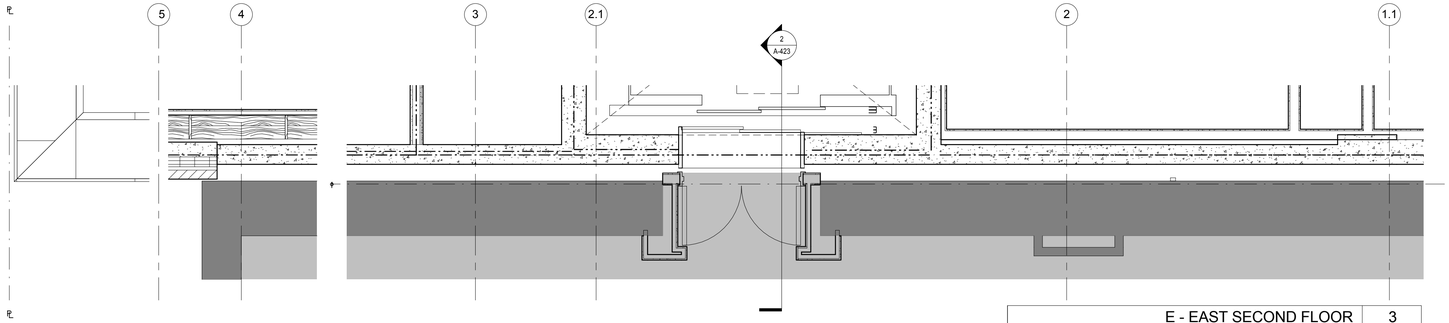
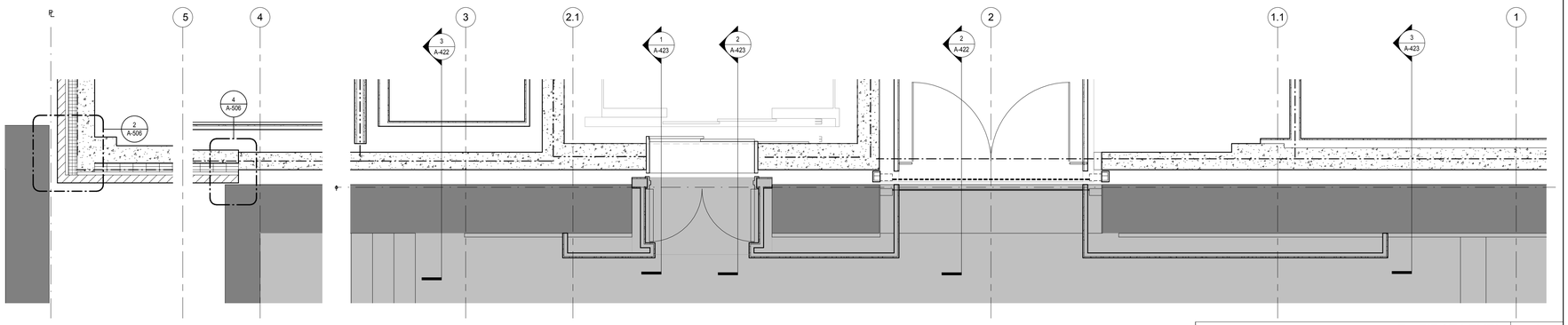
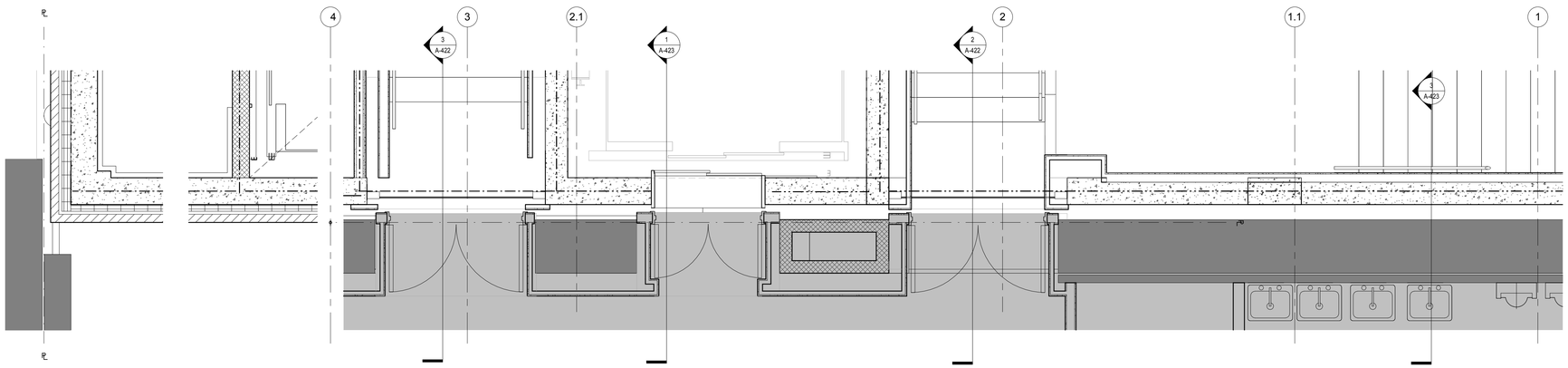


E - EAST SECOND FLOOR | 3 | 1/2" = 1'-0"



E - FIRST LEVEL | 2 | 1/2" = 1'-0"



E - LOWER LEVEL 1 | 1 | 1/2" = 1'-0"

WALL TYPE KEY

NOTE: REFER TO SPEC SECTION 084413 FOR FULL DESCRIPTION OF WALL TYPES

- WT-1 TYPICAL CURTAIN WALL
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- WT-3A CMU/MTL STUD W/ BRICK 1
- WT-3B CMU/MTL STUD W/ BRICK 2
- WT-4 STONE RAINSCREEN WALL
- WT-5 METAL RAINSCREEN WALL
- WT-6 CMU/MTL STUD W/ INSUL. MTL. PANEL
- WT-7 BRICK 2 ON C.I.P. CONCRETE

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Shaugat Shaikh
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Date: 05/04/2015
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Date:	No.:	Description:
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07.01.13		80% CD Pricing Set

Project:
8 West 70th

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New York, NY 10023

Sheet Title:
PLAN SECTIONS - EAST LOWER FLOORS

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated

Signature & Seal:
REGISTERED ARCHITECT SAMUEL G. WHITE No. 14175 STATE OF NEW YORK

Sheet Number:
A.405.00

NYC DOB Number: 121328919
Sheet: 47 of 81

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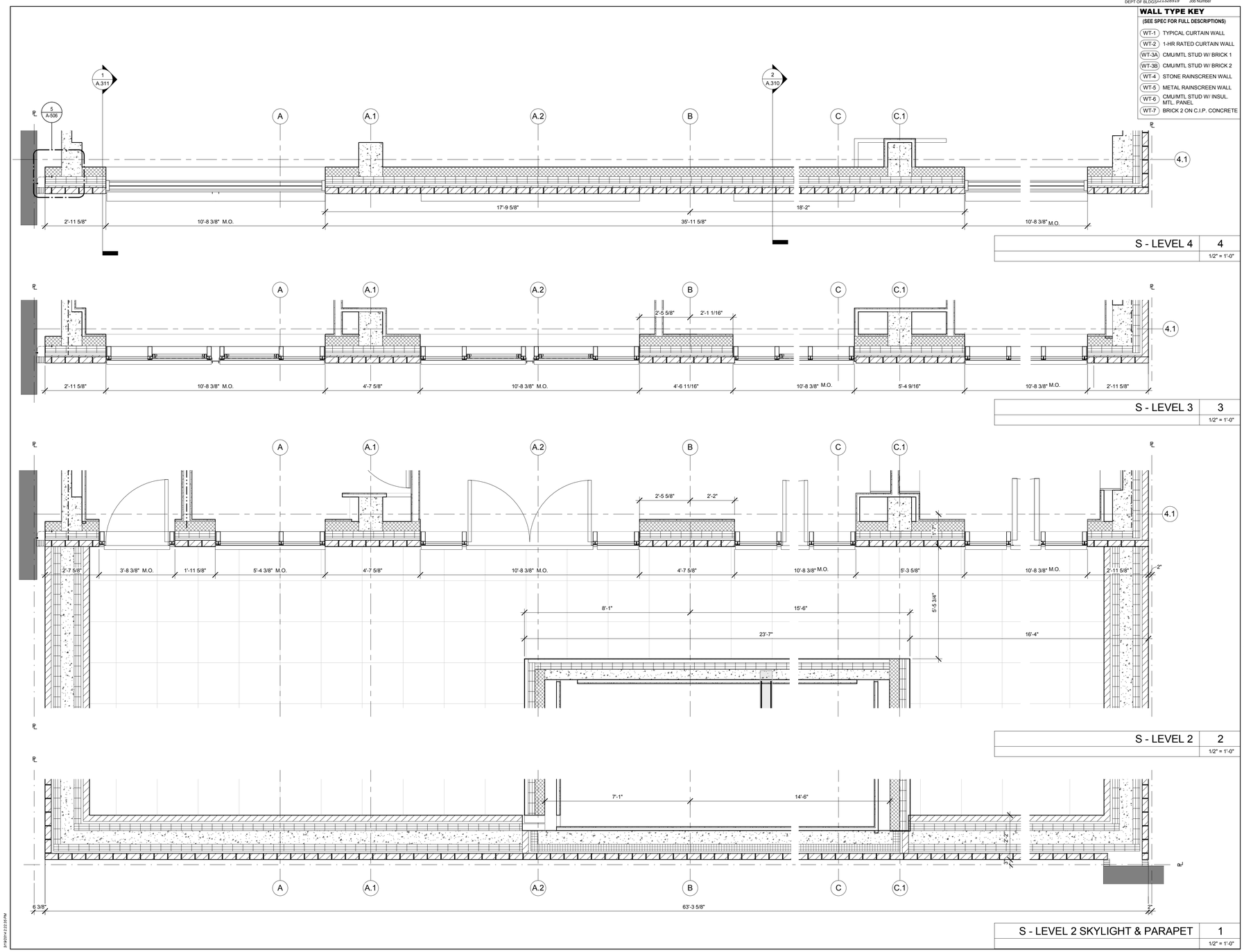

S - LEVEL 4	4
	1/2" = 1'-0"
S - LEVEL 3	3
	1/2" = 1'-0"
S - LEVEL 2	2
	1/2" = 1'-0"
S - LEVEL 2 SKYLIGHT & PARAPET	1
	1/2" = 1'-0"

WALL TYPE KEY

(SEE SPEC FOR FULL DESCRIPTIONS)

WT-1	TYPICAL CURTAIN WALL
WT-2	1-HR RATED CURTAIN WALL
WT-3A	CMU/MTL STUD W/ BRICK 1
WT-3B	CMU/MTL STUD W/ BRICK 2
WT-4	STONE RAINSCREEN WALL
WT-5	METAL RAINSCREEN WALL
WT-6	CMU/MTL STUD W/ INSUL. MTL. PANEL
WT-7	BRICK 2 ON C.I.P. CONCRETE

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Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
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07.01.13		80% CD Pricing Set

Project:
8 West 70th

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New York, NY 10023

Sheet Title:
PLAN SECTIONS - SOUTH LOWER FLOORS

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated
Signature & Seal:
REGISTERED ARCHITECT SAMUEL G. WHITE NO. 14775 STATE OF NEW YORK

Sheet Number:
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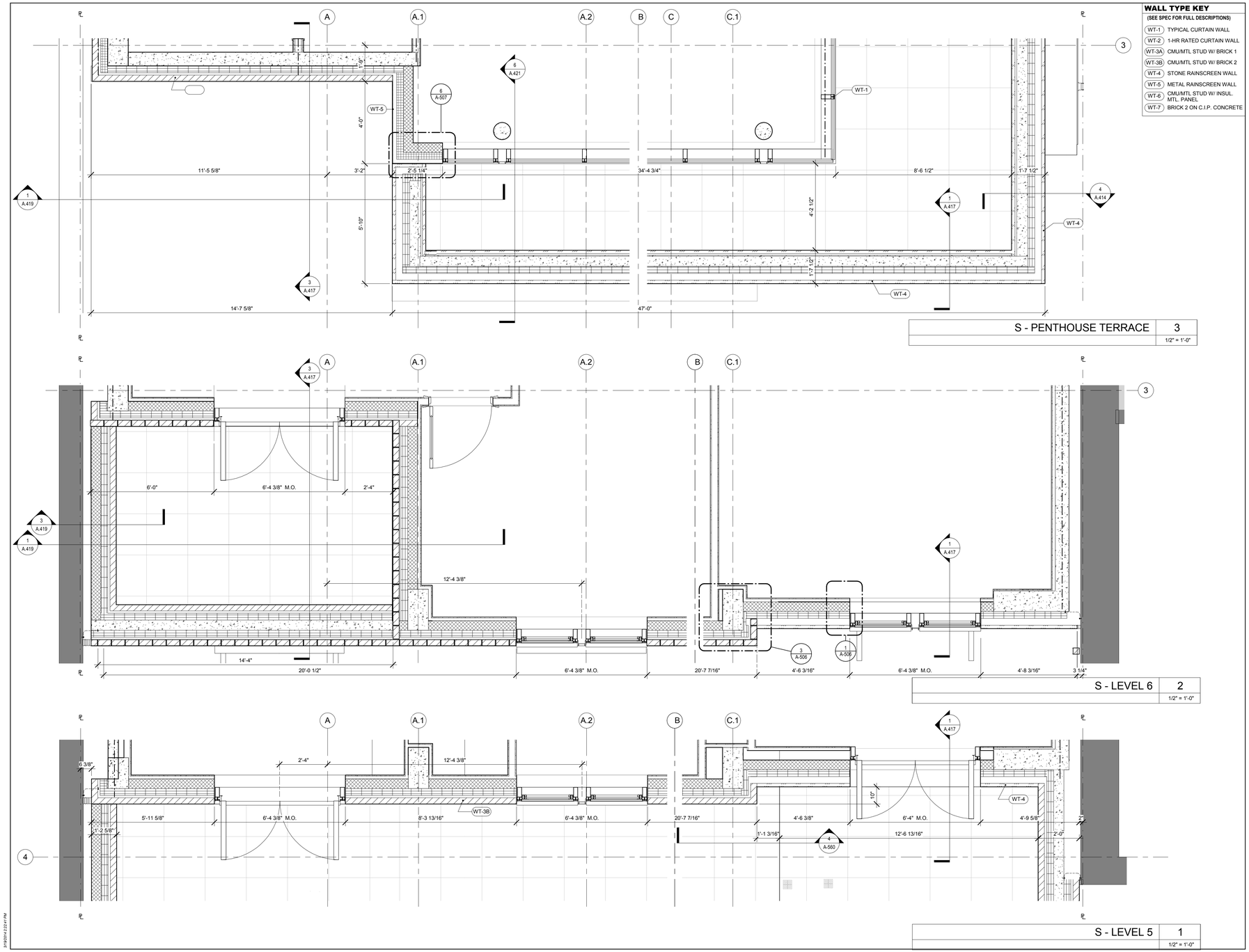
Opp. Ex. 1001 Page 48 of 205



WALL TYPE KEY
(SEE SPEC FOR FULL DESCRIPTIONS)

WT-1	TYPICAL CURTAIN WALL
WT-2	1-HR RATED CURTAIN WALL
WT-3A	CMU/MTL STUD W/ BRICK 1
WT-3B	CMU/MTL STUD W/ BRICK 2
WT-4	STONE RAINSCREEN WALL
WT-5	METAL RAINSCREEN WALL
WT-6	CMU/MTL STUD W/ INSUL. MTL. PANEL
WT-7	BRICK 2 ON C.I.P. CONCRETE

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07.01.13		80% CD Pricing Set

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New York, NY 10023

Sheet Title:
PLAN SECTIONS - SOUTH UPPER FLOORS

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated
Signature & Seal:

Sheet Number:
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NYC DOB Number: 121328919
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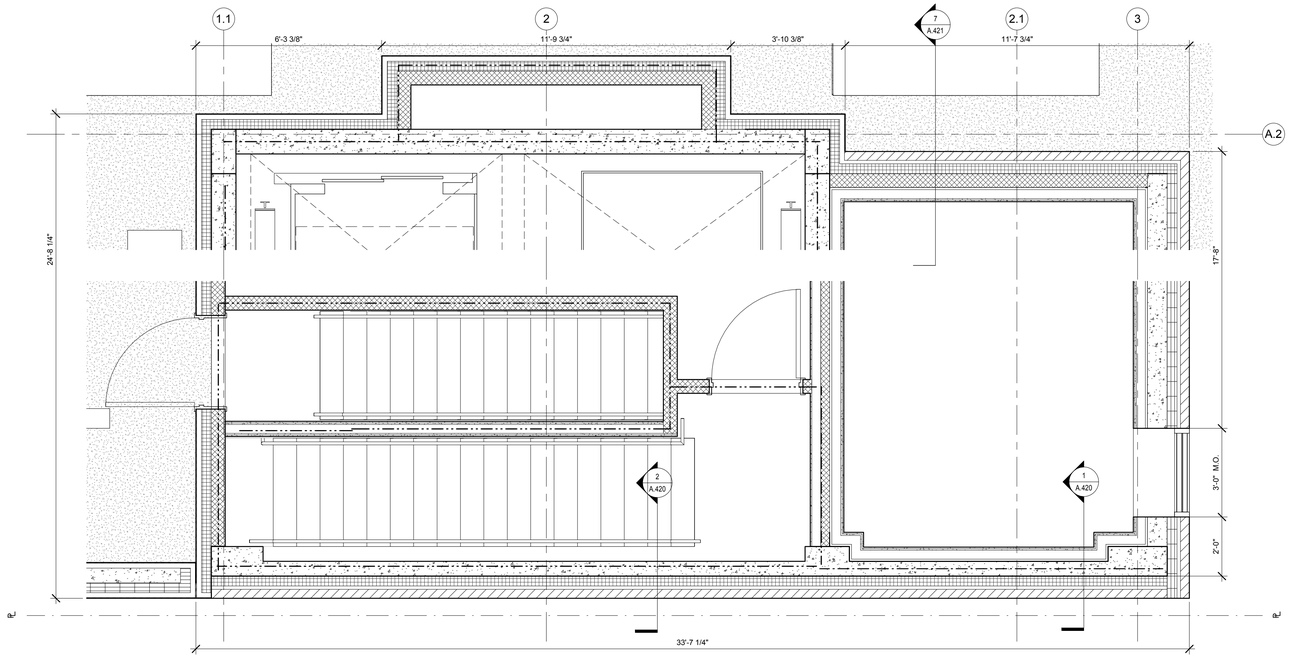
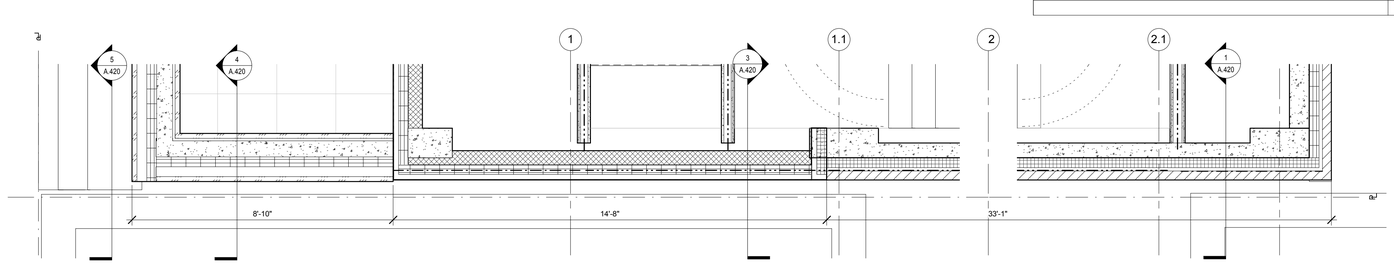
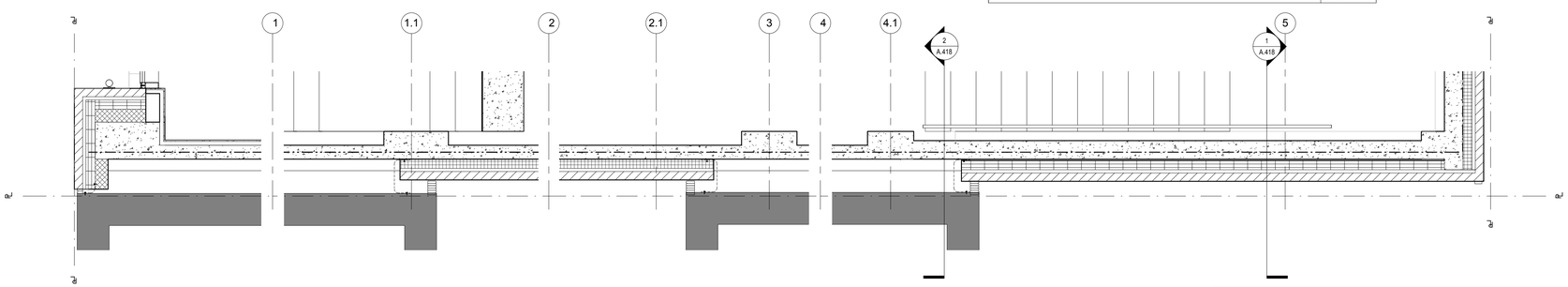


BULKHEAD LEVEL | 3 | 1/2" = 1'-0"



W - PENTHOUSE FLOOR | 2 | 1/2" = 1'-0"



W - GROUND FLOOR | 1 | 1/2" = 1'-0"

WALL TYPE KEY

NOTE: REFER TO SPEC SECTION 084413 FOR FULL DESCRIPTION OF WALL TYPES

WT-1	TYPICAL CURTAIN WALL
WT-2	1-HR FIRE-RATED CURTAIN WALL
WT-3A	CMU/MTL STUD W/ BRICK 1
WT-3B	CMU/MTL STUD W/ BRICK 2
WT-4	STONE RAINSCREEN WALL
WT-5	METAL RAINSCREEN WALL
WT-6	CMU/MTL STUD W/ INSUL. MTL. PANEL
WT-7	BRICK 2 ON C.I.P. CONCRETE

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Sheet Title:
PLAN SECTIONS - WEST

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated

Signature & Seal:
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Sheet Number:
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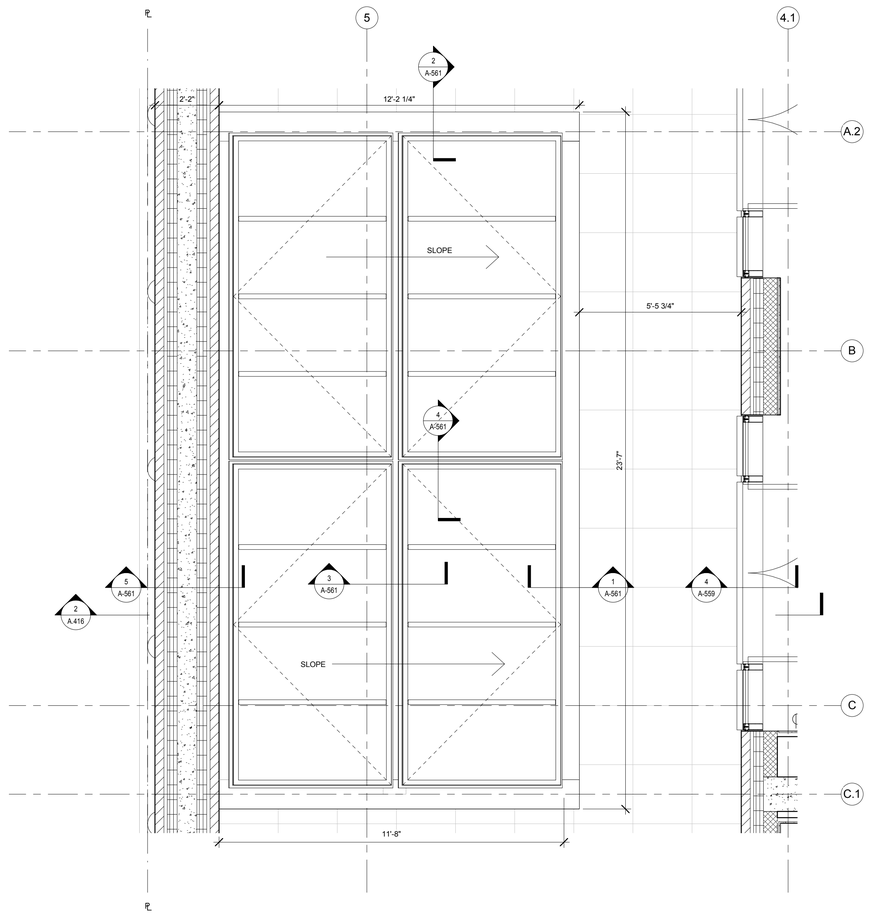

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Date: 05/04/2015
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New York, NY 10023

Sheet Title:
ENLARGED SKYLIGHT PLAN

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 1/2" = 1'-0"

Signature & Seal:
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Sheet Number:
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Sheet: 51 of 81

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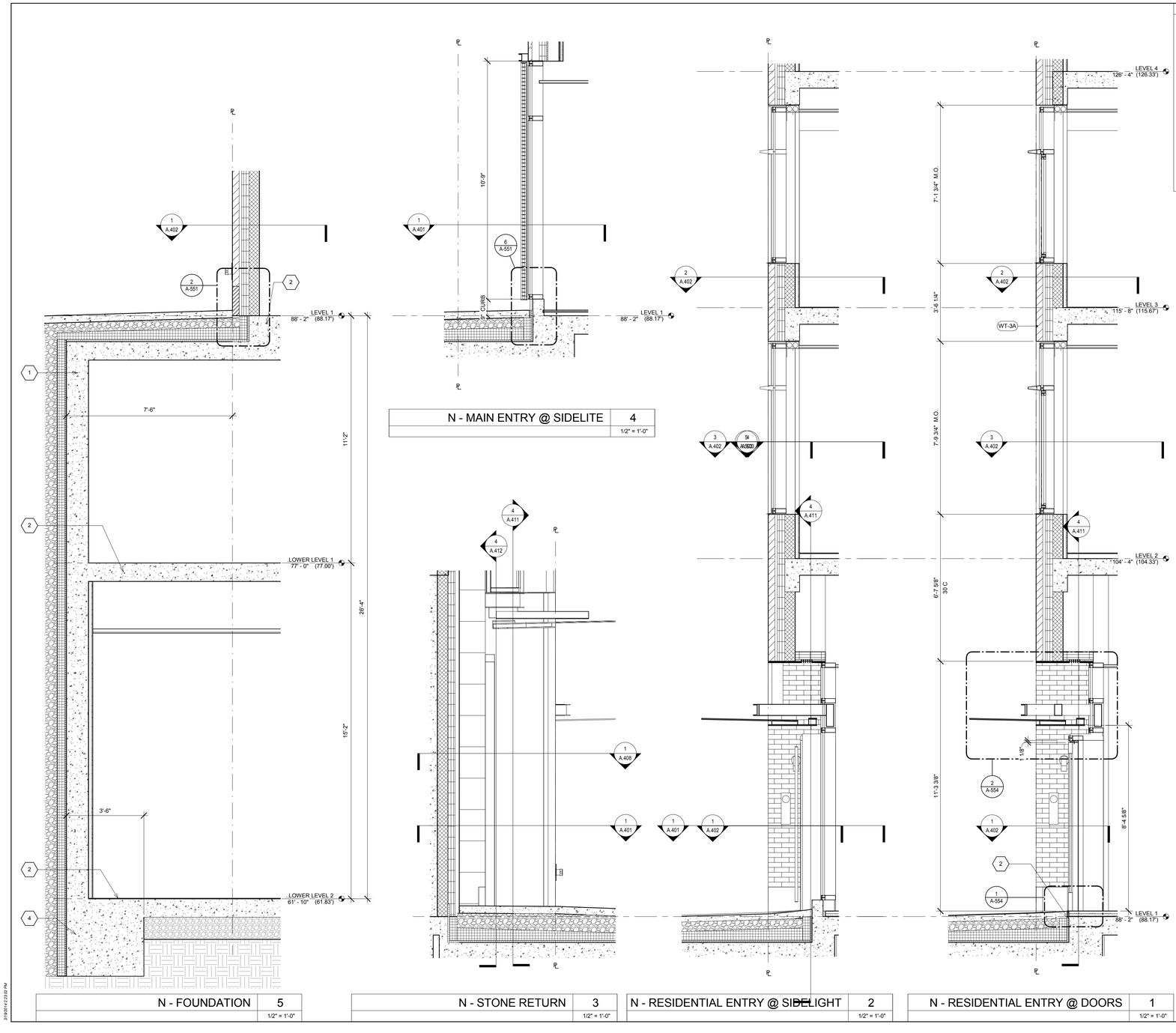

N - MAIN ENTRY @ SIDELITE | 4 | 1/2" = 1'-0"

N - FOUNDATION | 5 | 1/2" = 1'-0"

N - STONE RETURN | 3 | 1/2" = 1'-0"

N - RESIDENTIAL ENTRY @ SIDELIGHT | 2 | 1/2" = 1'-0"

N - RESIDENTIAL ENTRY @ DOORS | 1 | 1/2" = 1'-0"

WALL TYPE KEY

NOTE: REFER TO SPEC SECTION 084413 FOR FULL DESCRIPTION OF WALL TYPES

WT-1	TYPICAL CURTAIN WALL
WT-2	1-HR FIRE-RATED CURTAIN WALL
WT-3A	CMU/MTL STUD W/ BRICK 1
WT-3B	CMU/MTL STUD W/ BRICK 2
WT-4	STONE RAINSCREEN WALL
WT-5	METAL RAINSCREEN WALL
WT-6	CMU/MTL STUD W/ INSUL. MTL. PANEL
WT-7	BRICK 2 ON C.I.P. CONCRETE

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Sheet Title:
WALL SECTIONS - NORTH - FOUNDATION & BASE @ RESIDENTIAL ENTRY

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated
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Sheet Number:
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NYC DOB Number: 121328919
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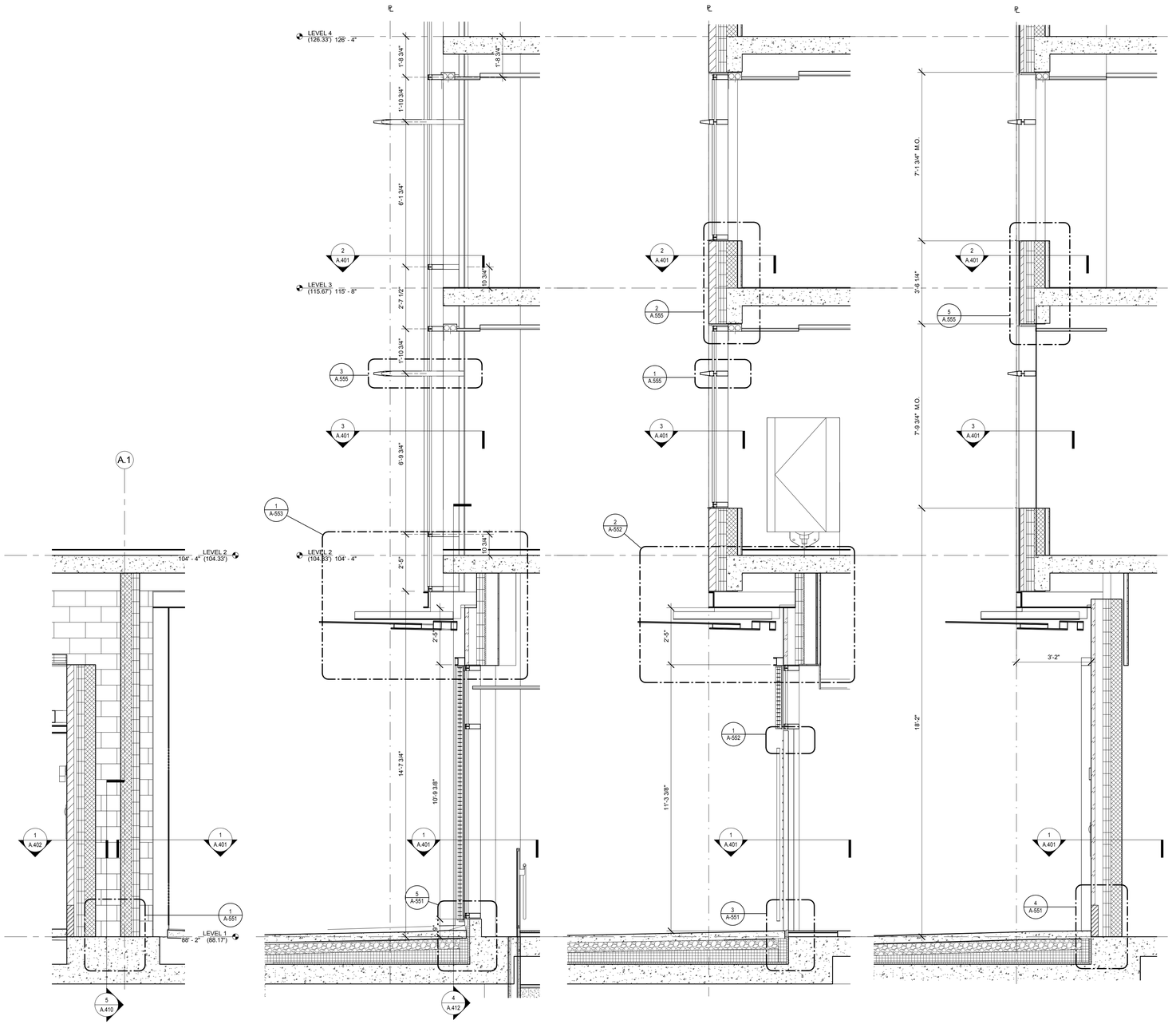

N- RETURN PANEL	4	N - MAIN ENTRY @ STAIR 4	3	N - MAIN ENTRY @ DOORS	2	N - MAIN ENTRY @ LIMESTONE	1
	1/2" = 1'-0"		1/2" = 1'-0"		1/2" = 1'-0"		1/2" = 1'-0"

WALL TYPE KEY

NOTE: REFER TO SPEC SECTION 084413 FOR FULL DESCRIPTION OF WALL TYPES

- WT-1 TYPICAL CURTAIN WALL
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- WT-3A CMU/MTL STUD W/ BRICK 1
- WT-3B CMU/MTL STUD W/ BRICK 2
- WT-4 STONE RAINSCREEN WALL
- WT-5 METAL RAINSCREEN WALL
- WT-6 CMU/MTL STUD W/ INSUL. MTL. PANEL
- WT-7 BRICK 2 ON C.I.P. CONCRETE

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Sheet Title:
WALL SECTIONS - NORTH - BASE @ MAIN ENTRANCE

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated
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NYC DOB Number: 121328919
Sheet: 53 of 81

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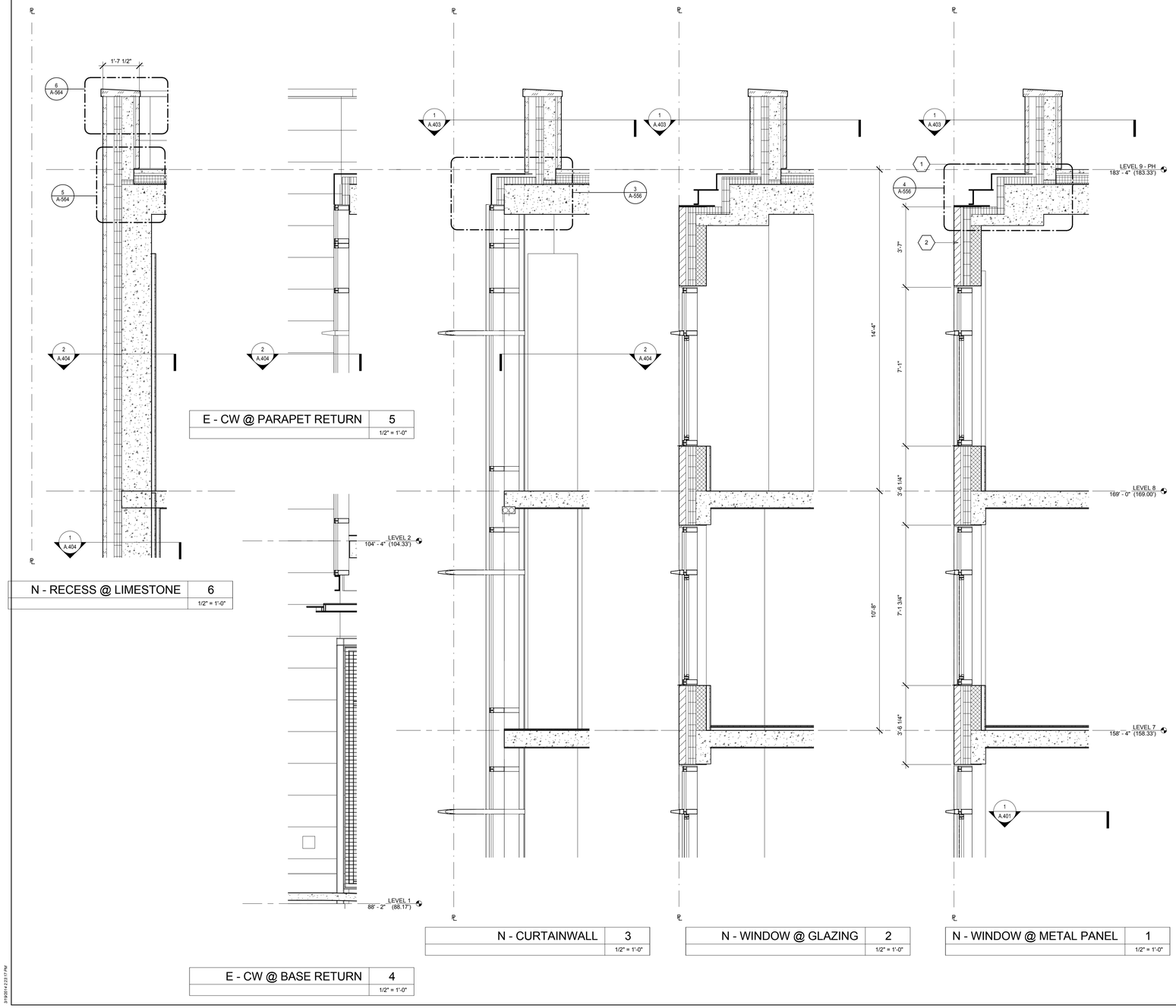

E - CW @ PARAPET RETURN | 5 | 1/2" = 1'-0"

N - RECESS @ LIMESTONE | 6 | 1/2" = 1'-0"

E - CW @ BASE RETURN | 4 | 1/2" = 1'-0"

N - CURTAINWALL | 3 | 1/2" = 1'-0"

N - WINDOW @ GLAZING | 2 | 1/2" = 1'-0"

N - WINDOW @ METAL PANEL | 1 | 1/2" = 1'-0"

3/19/2014 2:53:17 PM

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Sheet Title:
WALL SECTIONS - NORTH - PARAPET

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 1/2" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT DANIEL G. WILLIAMS 14175 STATE OF NEW YORK

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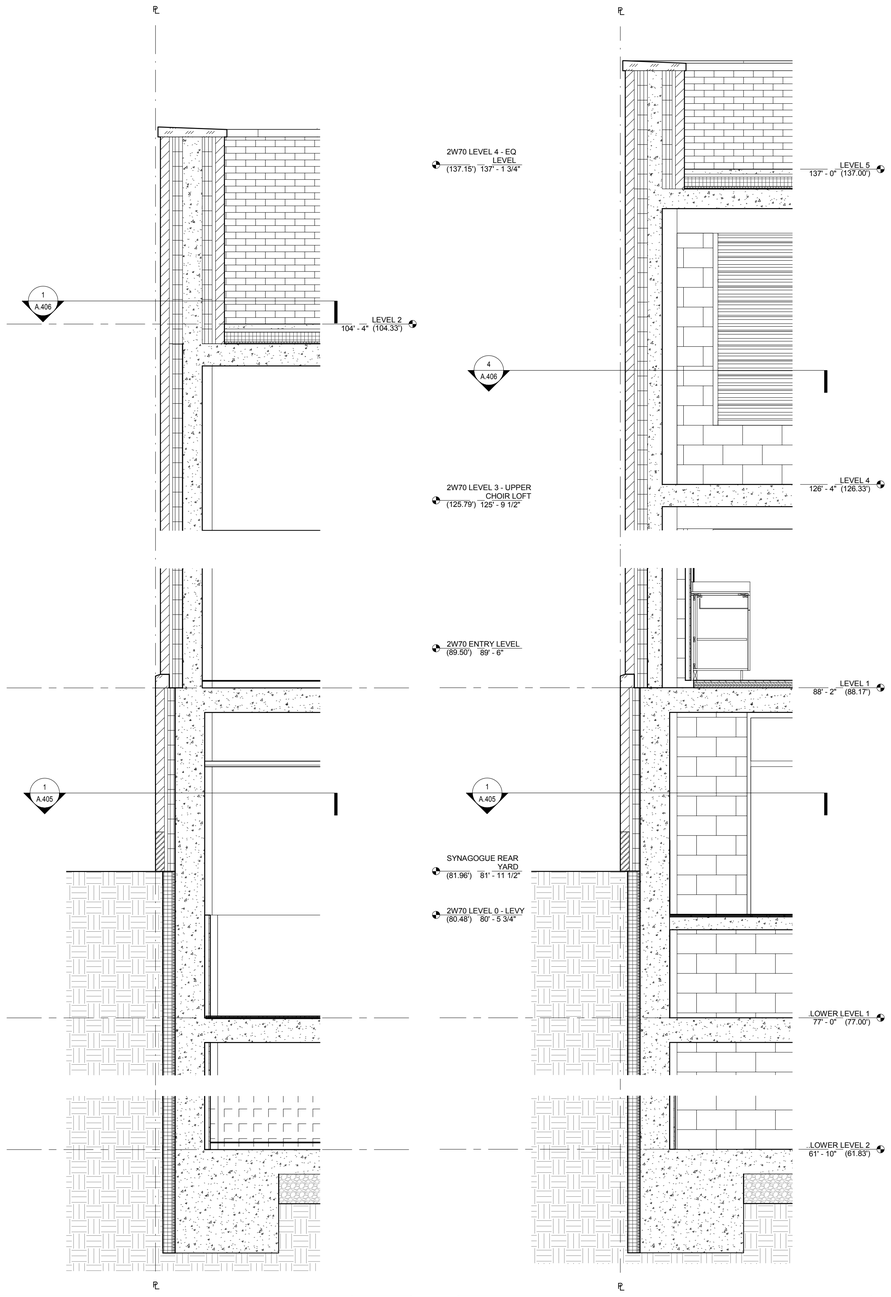

E - EXISTING EXTERIOR STAIR & REAR YARD	2
	1/2" = 1'-0"

E - EXISTING EXT. STAIR & 5TH FLR TERR.	1
	1/2" = 1'-0"

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Sheet Title:
WALL SECTIONS - EAST - BASE & FOUNDATION

Project Number: 12639
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Scale: 1/2" = 1'-0"

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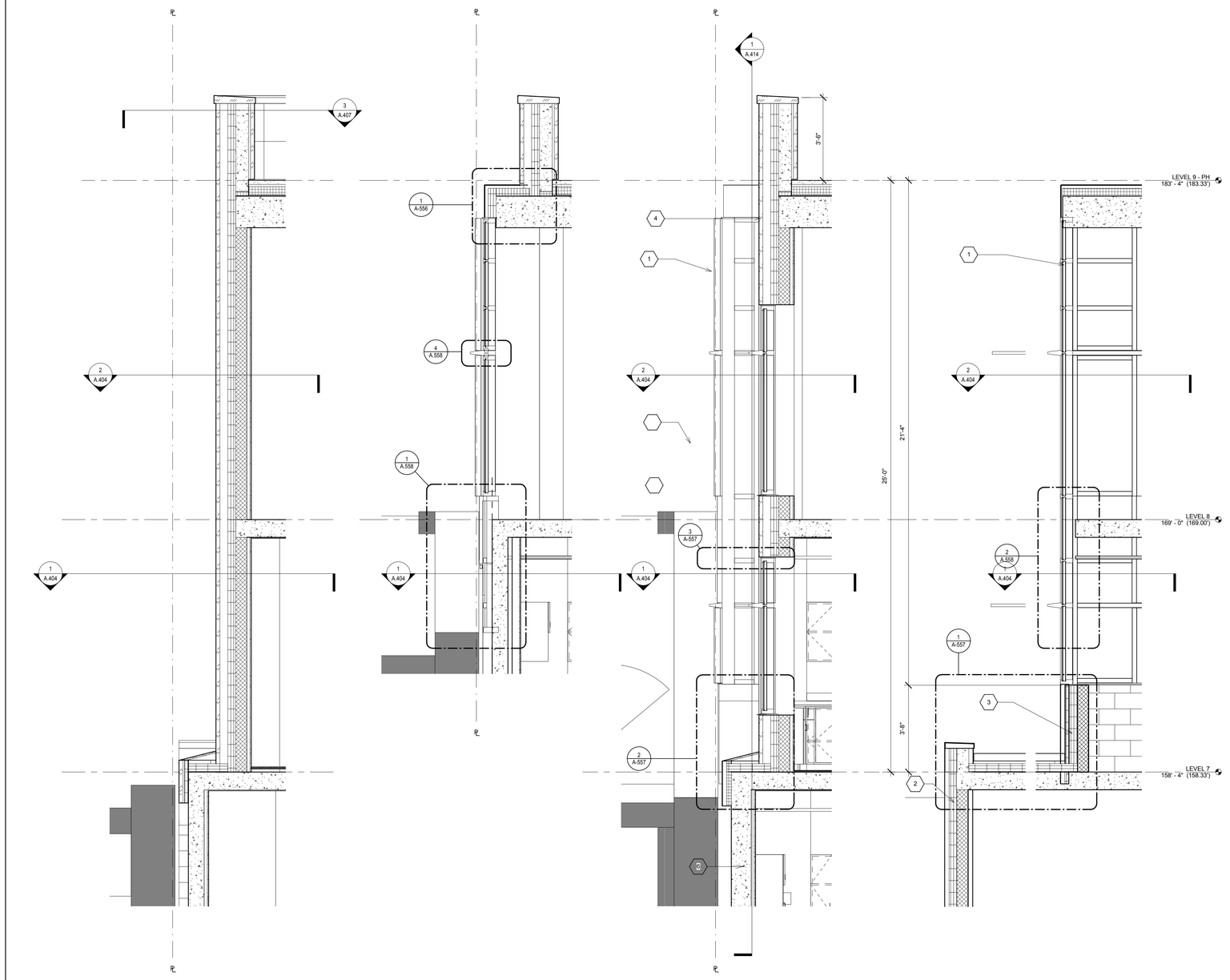

E - LIMESTONE @ FLAT ROOF	4
	1/2" = 1'-0"

E - RES. CW @ SLOPED ROOF	3
	1/2" = 1'-0"

E - RES. CW @ FLAT ROOF	2
	1/2" = 1'-0"

N - RES. CW @ FLAT ROOF	1
	1/2" = 1'-0"

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Date: 05/04/2015
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Date:	No.:	Description:
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01.31.14		Guaranteed Max Price (80% CD)
07.01.13		80% CD Pricing Set

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
WALL SECTIONS - EAST - PARAPET

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 1/2" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT
SAMUEL G. WHITE
NO. 14775
STATE OF NEW YORK

Sheet Number:
A.414.00

NYC DOB Number: 121328919
Sheet: 56 of 81

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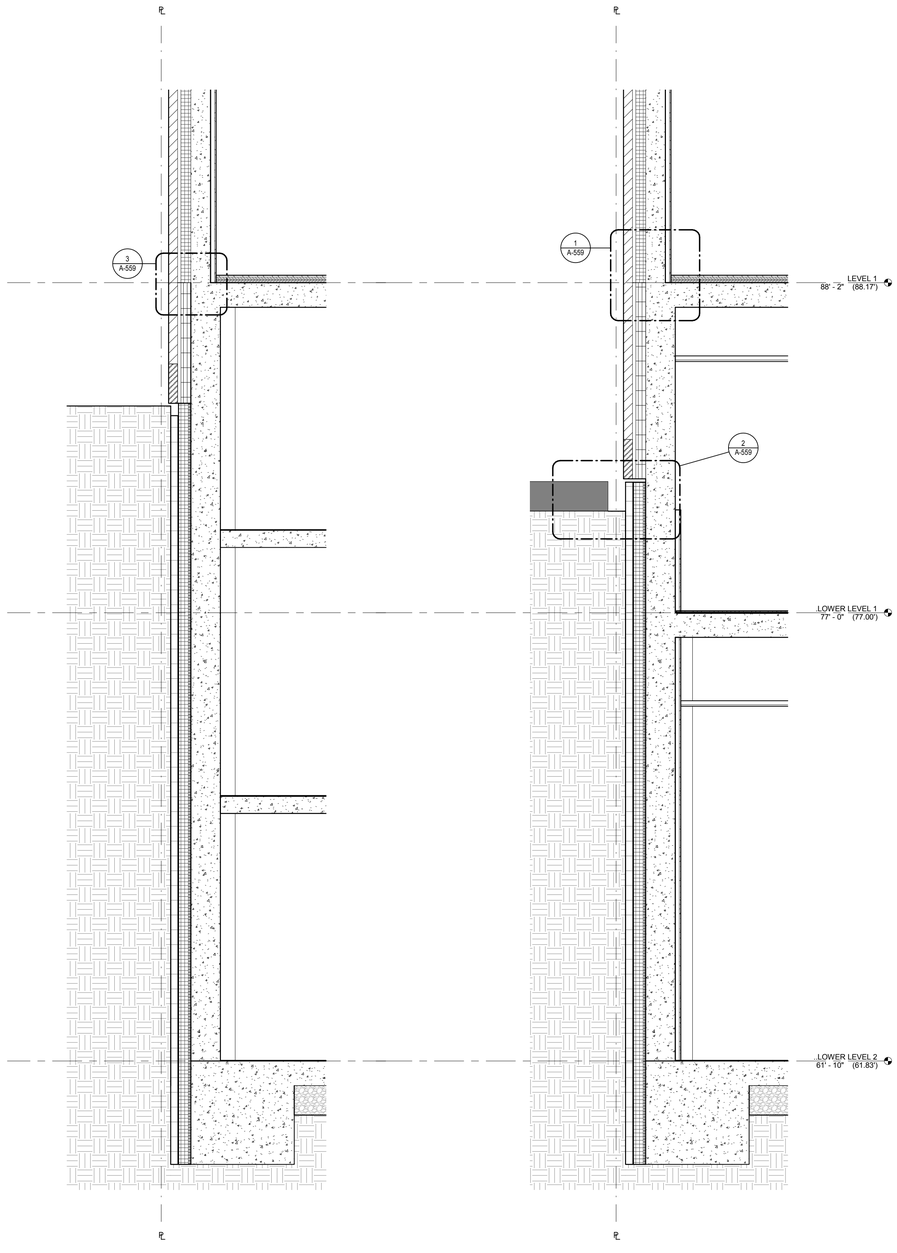

S - FOUNDATION @ WEST 69TH REAR YARD | 2 | 1/2" = 1'-0"

S - FOUNDATION @ 91 CPW REARYARD | 1 | 1/2" = 1'-0"

3/19/2014 2:23:32 PM

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WALL SECTIONS - SOUTH - FOUNDATIONS

Project Number: 12639
Drawn By: Author
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Scale: 1/2" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT
SHAUQAT G. SHAIKH
14172
STATE OF NEW YORK

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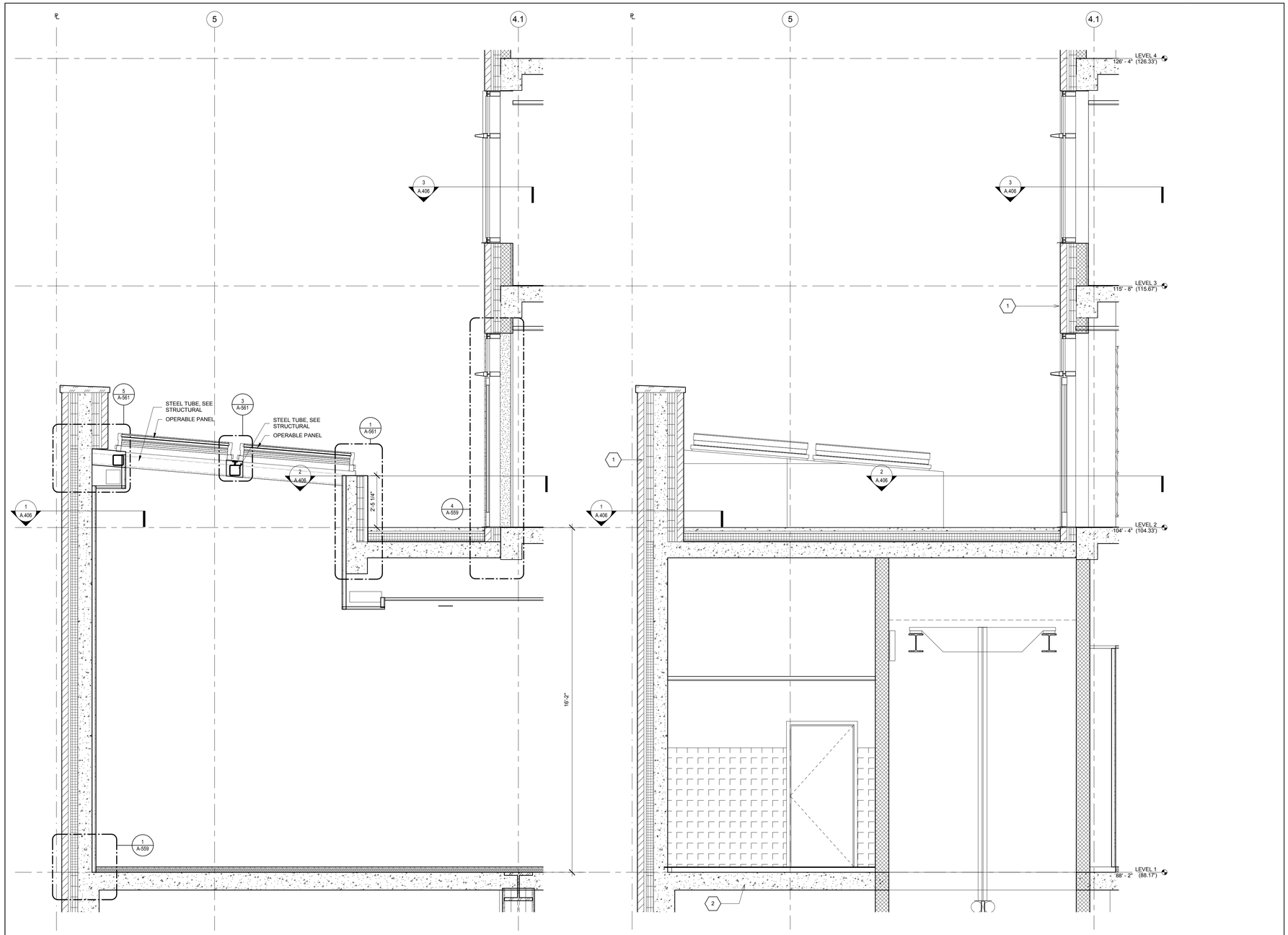

S - SECTION AT OPERABLE SKYLIGHT	2
	1/2" = 1'-0"

S - FACE AT ELEVATOR 4	1
	1/2" = 1'-0"

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WALL SECTIONS - SOUTH - BASE & REARYARD PARAPET PARAPET

Project Number: 12639
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Signature & Seal:

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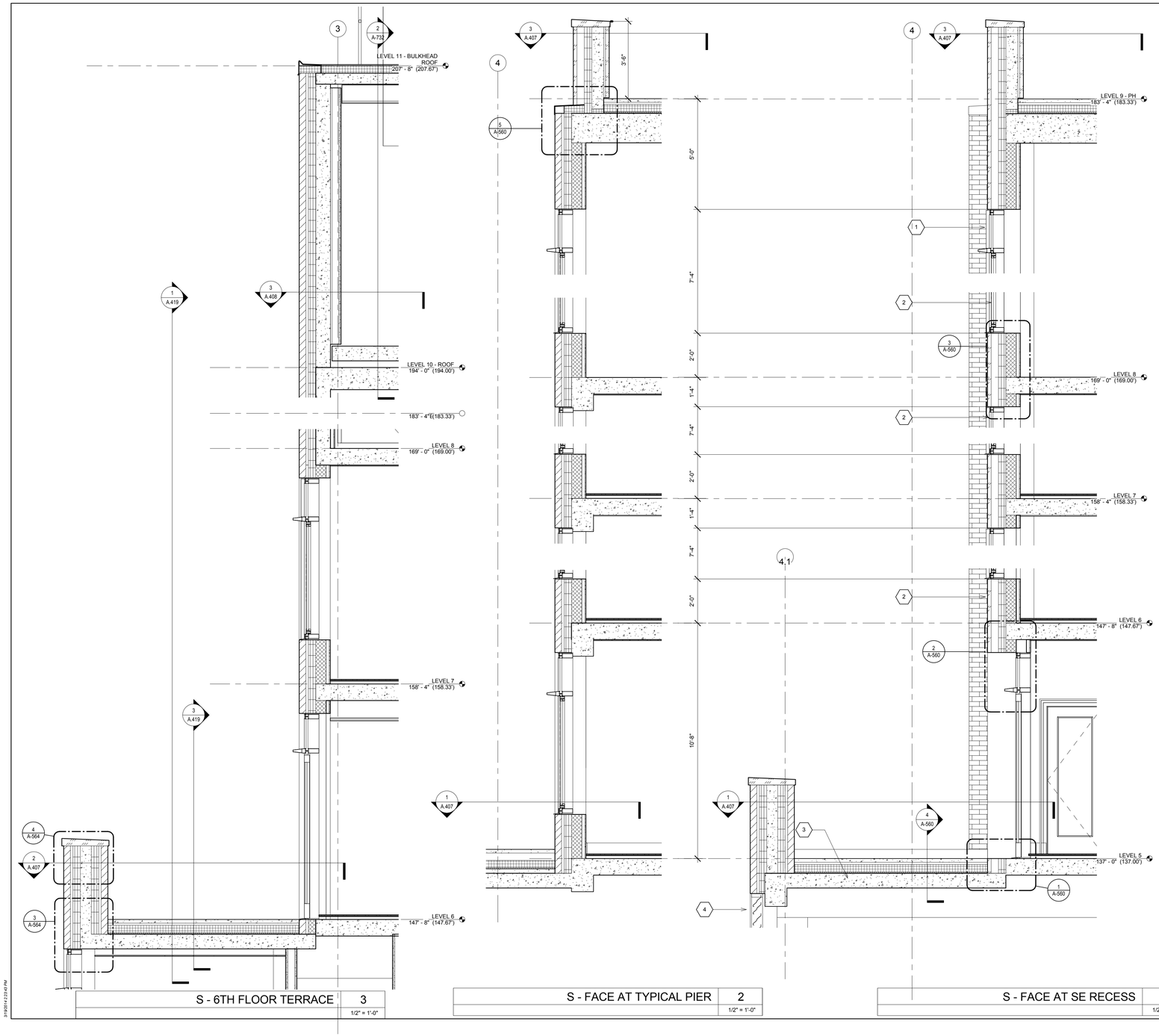

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07.01.13		80% CD Pricing Set

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WALL SECTIONS - SOUTH - PARAPET & TERRACE

Project Number: 12639
Drawn By: Author
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Scale: 1/2" = 1'-0"

Signature & Seal:
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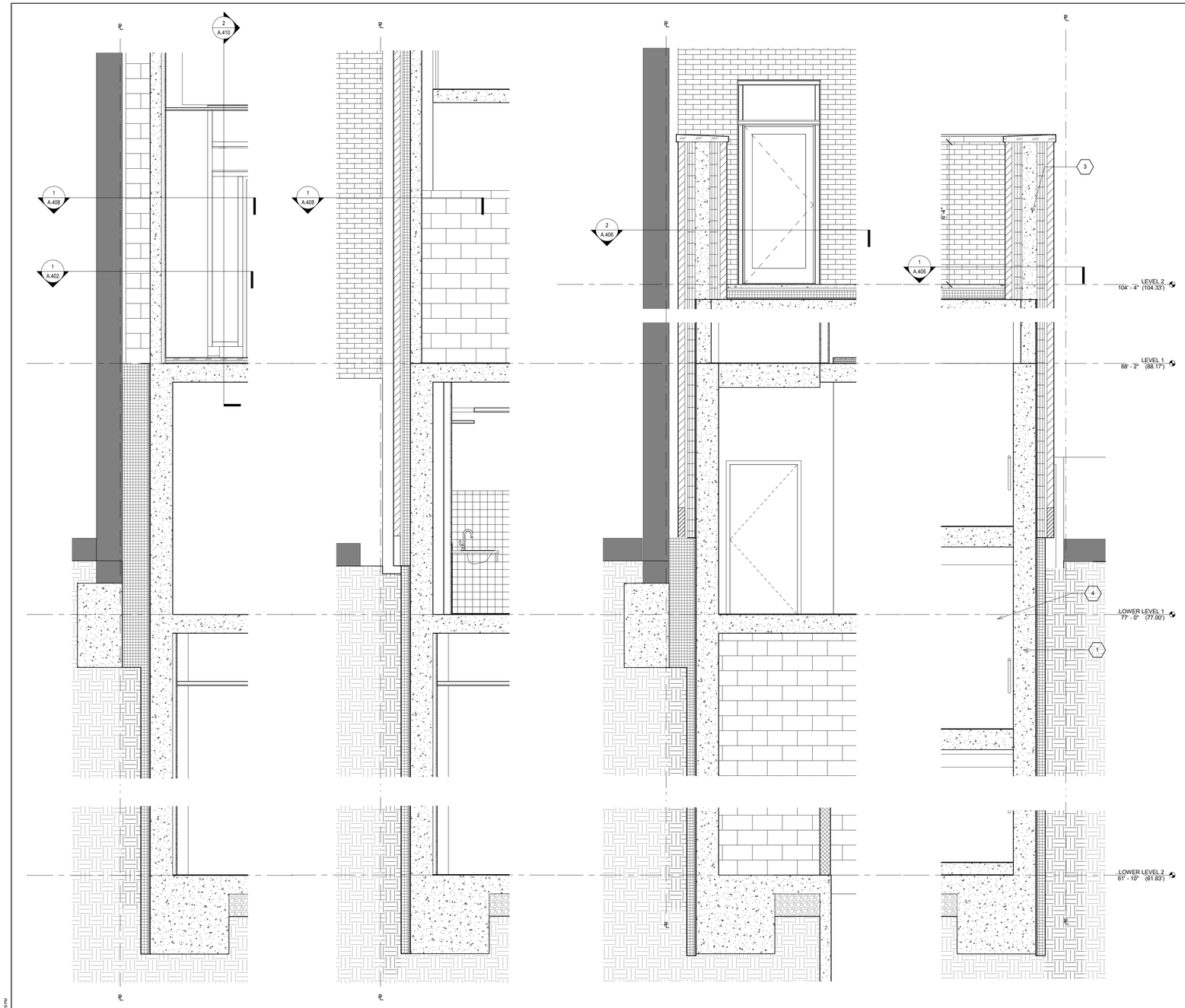

W - FOUND. & REAR YARD PARAPET 3	4	W - FOUND. & REAR YARD PARAPET 1	3	W - FOUND. & REAR YARD PARAPET 2	2	W - FOUND. & REAR YARD PARAPET	1
	1/2" = 1'-0"		1/2" = 1'-0"		1/2" = 1'-0"		1/2" = 1'-0"

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Sheet Title:
WALL SECTIONS - WEST - FOUNDATION, BASE & REARYARD PARAPET

Project Number: 12639
Drawn By: Author
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Scale: 1/2" = 1'-0"
Signature & Seal:
REGISTERED ARCHITECT SAMUEL G WHITE NO. 14775 STATE OF NEW YORK

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A.418.00

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Opp. Ex. 1001 Page 60 of 205



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ES040168621 Scan Code

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WALL SECTIONS - WEST - PARAPET & TERRACE

Project Number: 12639
Drawn By: Author
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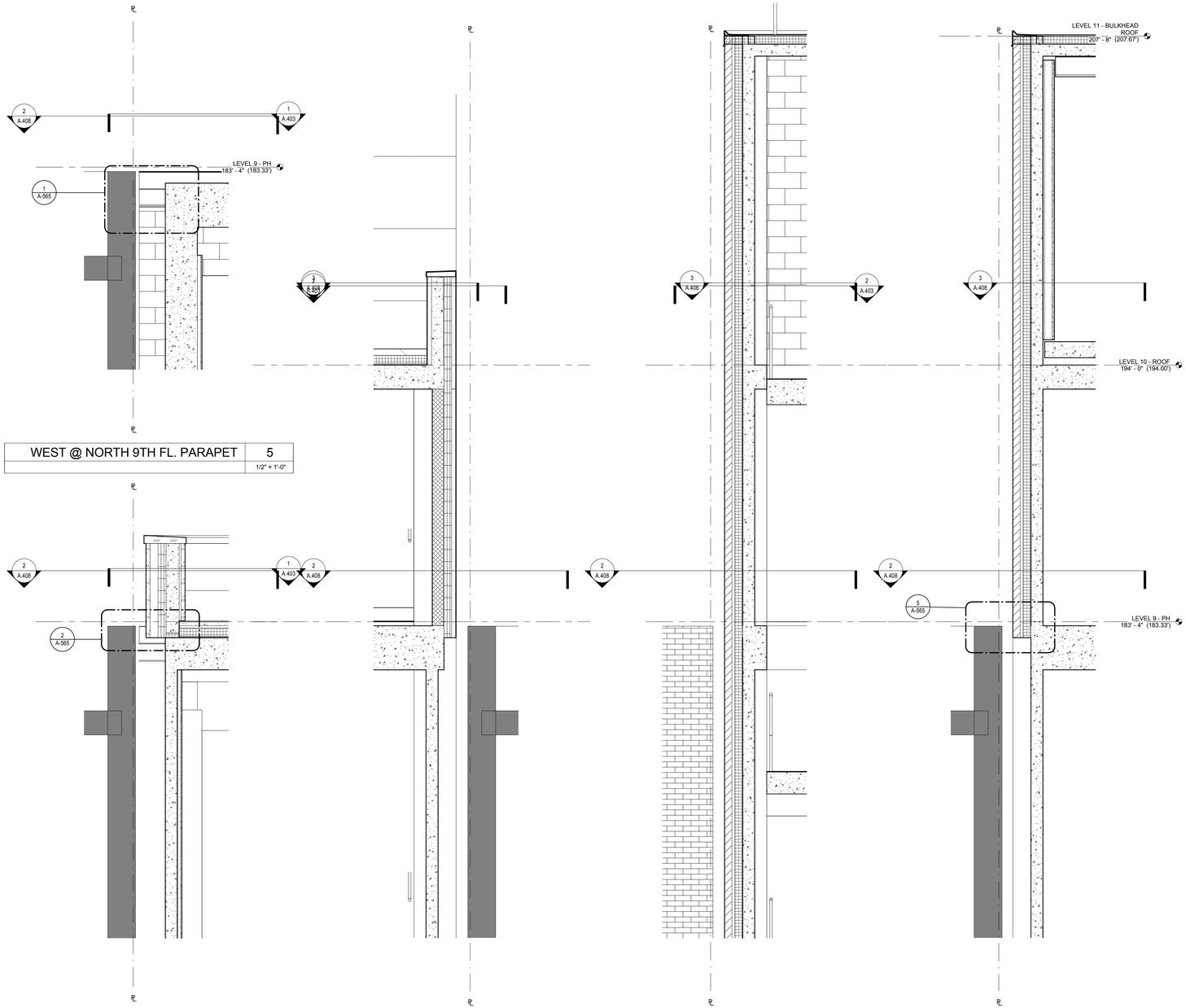

WEST @ NORTH 9TH FL. PARAPET	5
	1/2" = 1'-0"

W - NORTH 9TH FLOOR PARAPET	4
	1/2" = 1'-0"

W - NORTH ROOF PARAPET	3
	1/2" = 1'-0"

W - BULKHEAD ROOF PARAPET	2
	1/2" = 1'-0"

W - SOUTH ROOF PARAPET	1
	1/2" = 1'-0"

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Sheet Title:
WALL SECTIONS - WEST - PARAPET

Project Number: 12639
Drawn By: Author
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Sheet Number:
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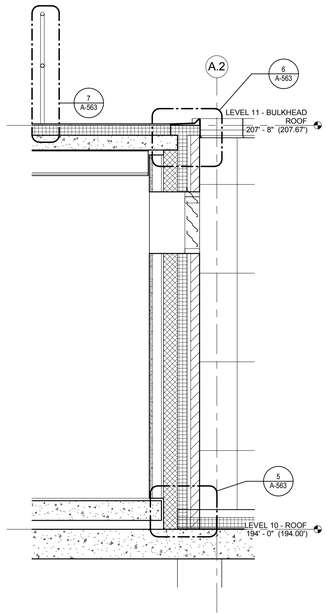
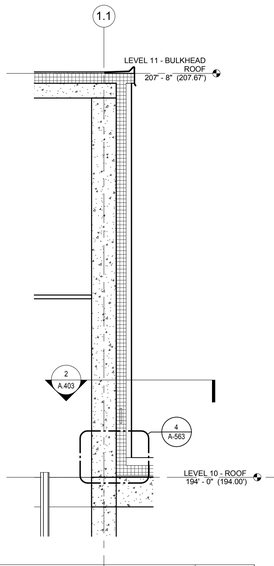
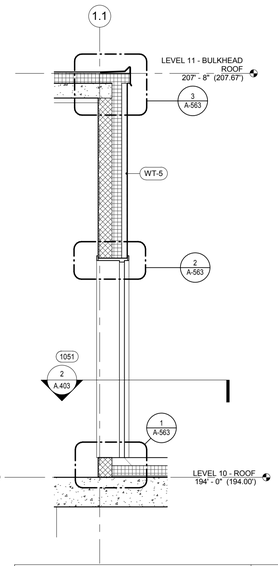


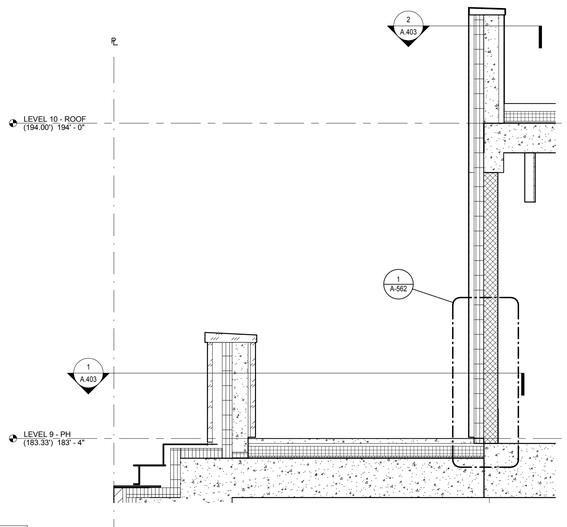
E - BULKHEAD @ BRICK | 7 | 1/2" = 1'-0"



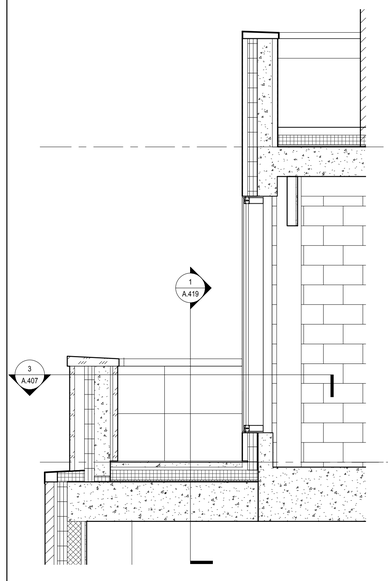
E - BULKHEAD @ METAL PAN. | 5 | 1/2" = 1'-0"



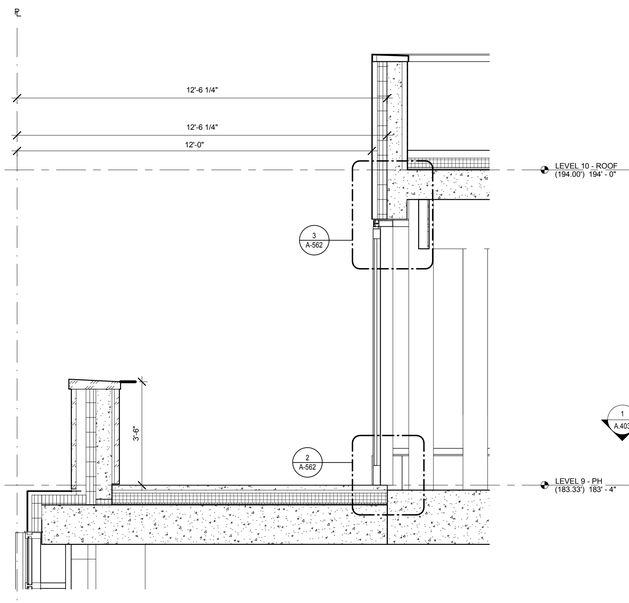
E - BULKHEAD @ DOOR | 4 | 1/2" = 1'-0"



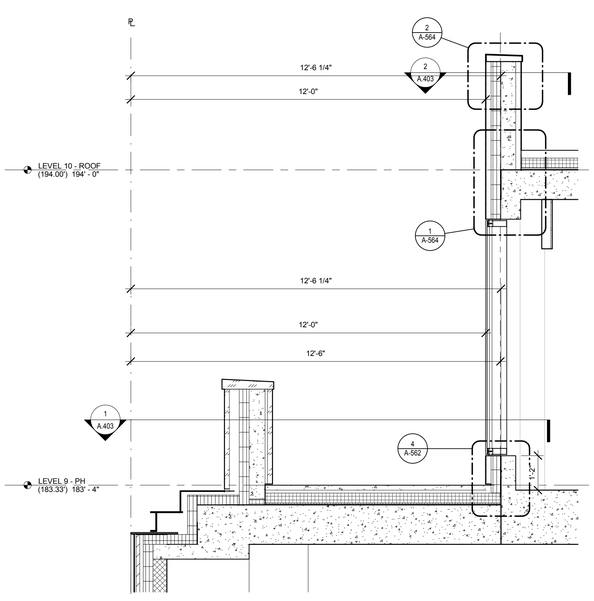
N - PENTHOUSE @ METAL PAN. | 2 | 1/2" = 1'-0"



S - PENTHOUSE @ CURTAIN WALL | 6 | 1/2" = 1'-0"



E - PENTHOUSE @ CURTAIN WALL | 3 | 1/2" = 1'-0"



N - PENTHOUSE @ CURTAIN WALL | 1 | 1/2" = 1'-0"

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WALL SECTIONS - PENTHOUSE & BULKHEAD

Project Number: 12639
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Sheet Number:
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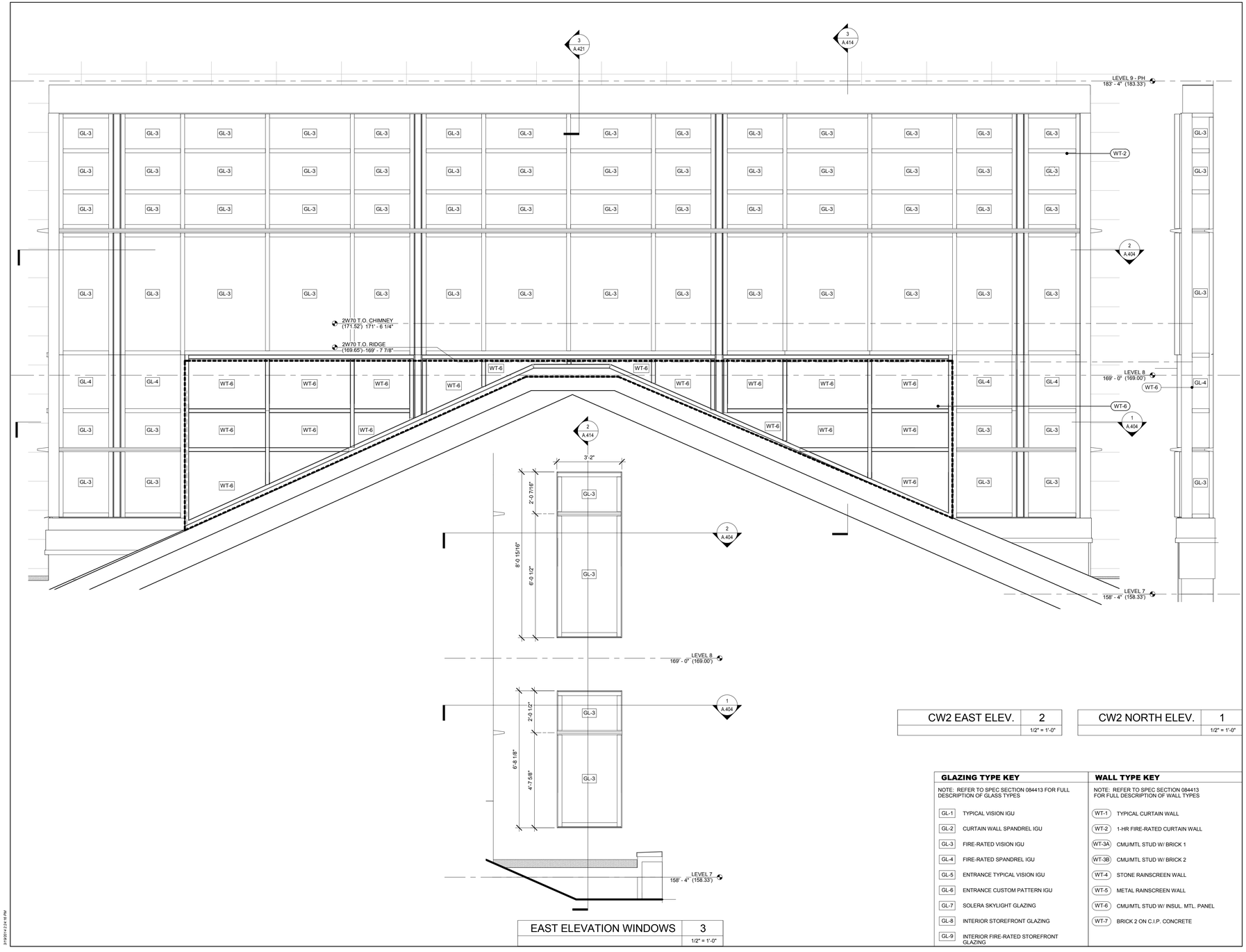

CW2 EAST ELEV.	2
	1/2" = 1'-0"

CW2 NORTH ELEV.	1
	1/2" = 1'-0"

EAST ELEVATION WINDOWS	3
	1/2" = 1'-0"

GLAZING TYPE KEY

NOTE: REFER TO SPEC SECTION 084413 FOR FULL DESCRIPTION OF GLASS TYPES

GL-1	TYPICAL VISION IGU
GL-2	CURTAIN WALL SPANDREL IGU
GL-3	FIRE-RATED VISION IGU
GL-4	FIRE-RATED SPANDREL IGU
GL-5	ENTRANCE TYPICAL VISION IGU
GL-6	ENTRANCE CUSTOM PATTERN IGU
GL-7	SOLERA SKYLIGHT GLAZING
GL-8	INTERIOR STOREFRONT GLAZING
GL-9	INTERIOR FIRE-RATED STOREFRONT GLAZING

WALL TYPE KEY

NOTE: REFER TO SPEC SECTION 084413 FOR FULL DESCRIPTION OF WALL TYPES

WT-1	TYPICAL CURTAIN WALL
WT-2	1-HR FIRE-RATED CURTAIN WALL
WT-3A	CMU/MTL STUD W/ BRICK 1
WT-3B	CMU/MTL STUD W/ BRICK 2
WT-4	STONE RAINSCREEN WALL
WT-5	METAL RAINSCREEN WALL
WT-6	CMU/MTL STUD W/ INSUL. MTL. PANEL
WT-7	BRICK 2 ON C.I.P. CONCRETE

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NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
01.31.14		Guaranteed Max Price (80% CD)
07.01.13		80% CD Pricing Set

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
EAST CURTAIN WALL ELEVATIONS

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: As indicated
Signature & Seal: REGISTERED ARCHITECT SAMUEL G. WHITE NO. 14775 STATE OF NEW YORK

Sheet Number:
A.432.00

NYC DOB Number: 121328919
Sheet: 64 of 81

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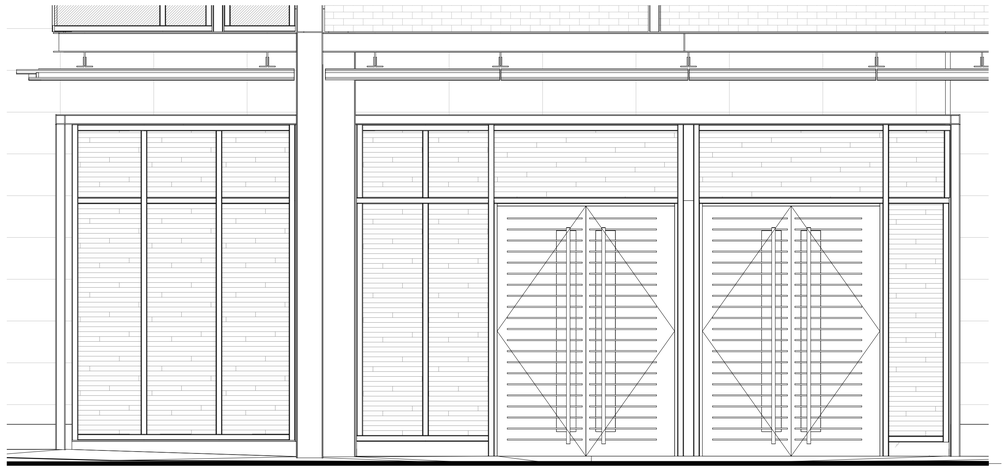
DEPT OF BLDGS 121328919 Job Number

ES763633773 Scan Code



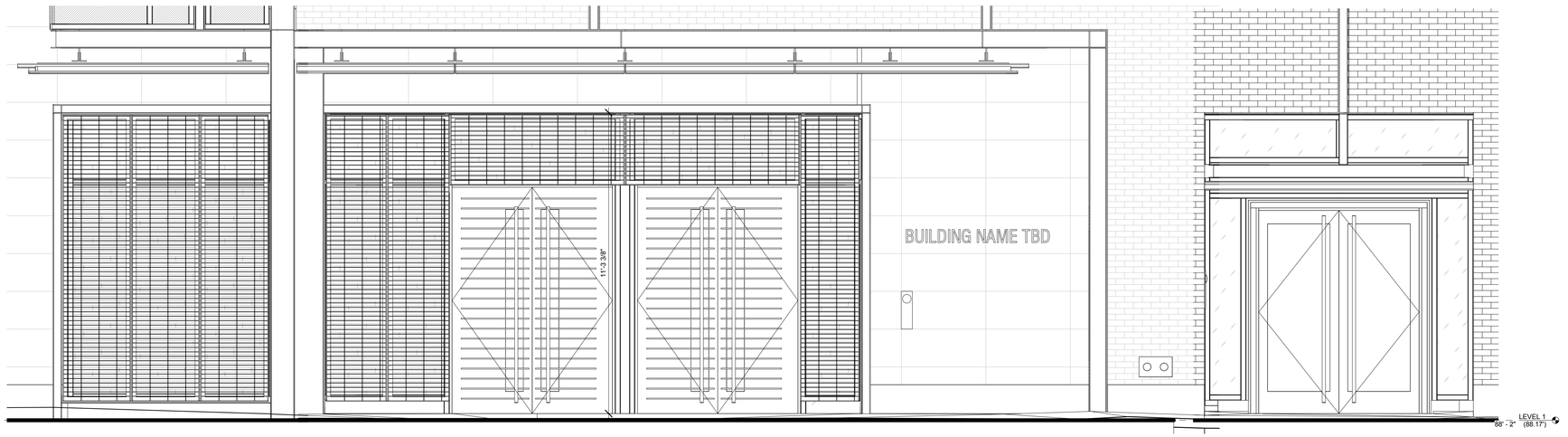
MAIN ENTRANCE W/O SCREEN ELEVATION | 5 | 1/2" = 1'-0"



3D VIEW OF MAIN ENTRANCE W/ SCREEN | 6



3D VIEW OF MAIN ENTRANCE | 4



ENLARGED ELEV - STOREFRONT @ STAIR 4 | 3 | 1/2" = 1'-0"

ENLARGED ELEV - MAIN ENTRANCE | 2 | 1/2" = 1'-0"

ENLARGED ELEV - RESIDENTIAL ENTRANCE | 1 | 1/2" = 1'-0"

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APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
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Project:
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Sheet Title:
MAIN ENTRANCE & LOBBY STOREFRONT

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 1/2" = 1'-0"
Signature & Seal:

Sheet Number:
A.434.00

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DEPT OF BLDGS 121328919 Job Number
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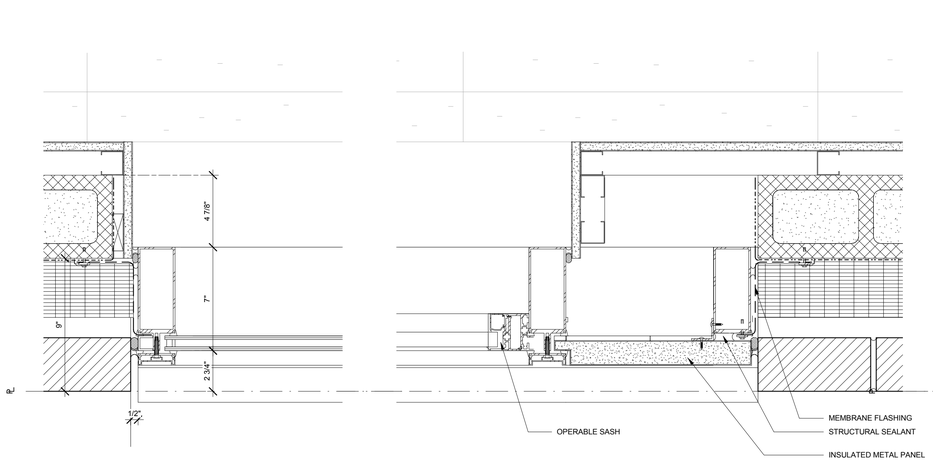
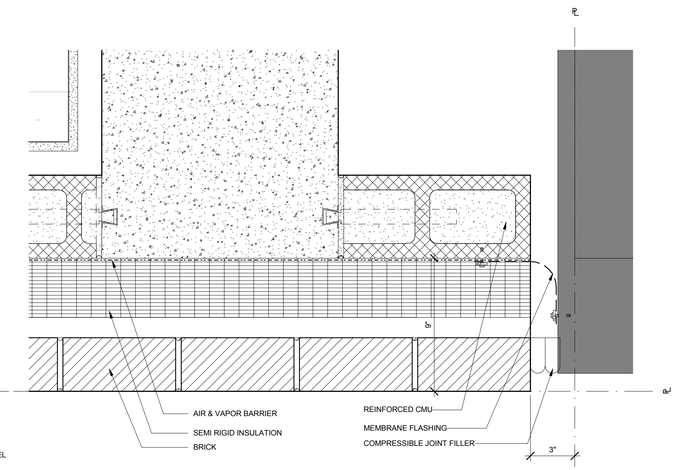
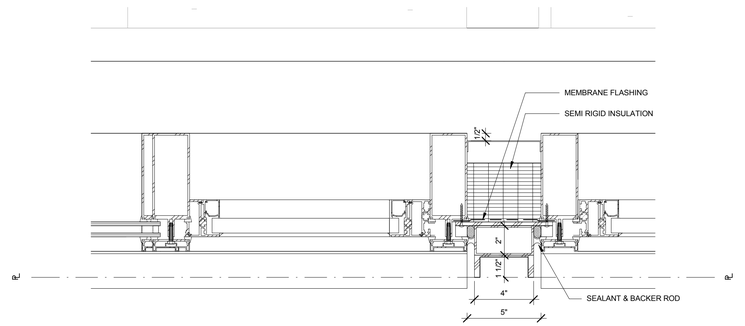


TYPICAL WINDOW JAMB	5
	3" = 1'-0"

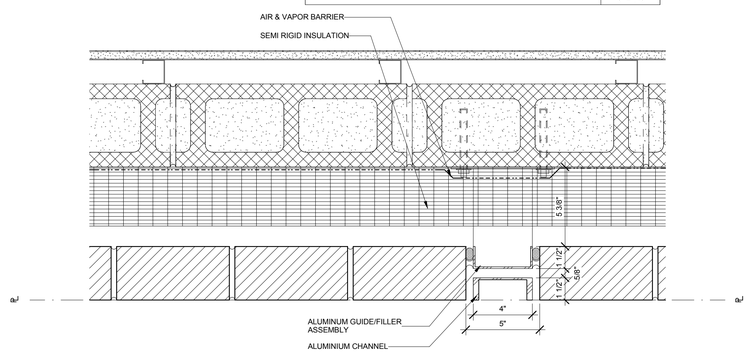


WINDOW JAMB AT FILLER PANEL	4
	3" = 1'-0"

TYP NW SEISMIC JOINT	3
	3" = 1'-0"



WINDOW JAMB AT CHANNEL MULLION	2
	3" = 1'-0"



N- VERTICAL CHANNEL AT BRICK	1
	3" = 1'-0"

3/19/2014 12:57 PM

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Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
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01.31.14		Guaranteed Max Price (80% CD)

Project:
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New York, NY 10023

Sheet Title:
TYPICAL NORTH JAMB DETAILS

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 3" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT SAMUEL G WHITE NO. 14175 STATE OF NEW YORK

Sheet Number:
A.503.00

NYC DOB Number: 121328919
Sheet: 66 of 81

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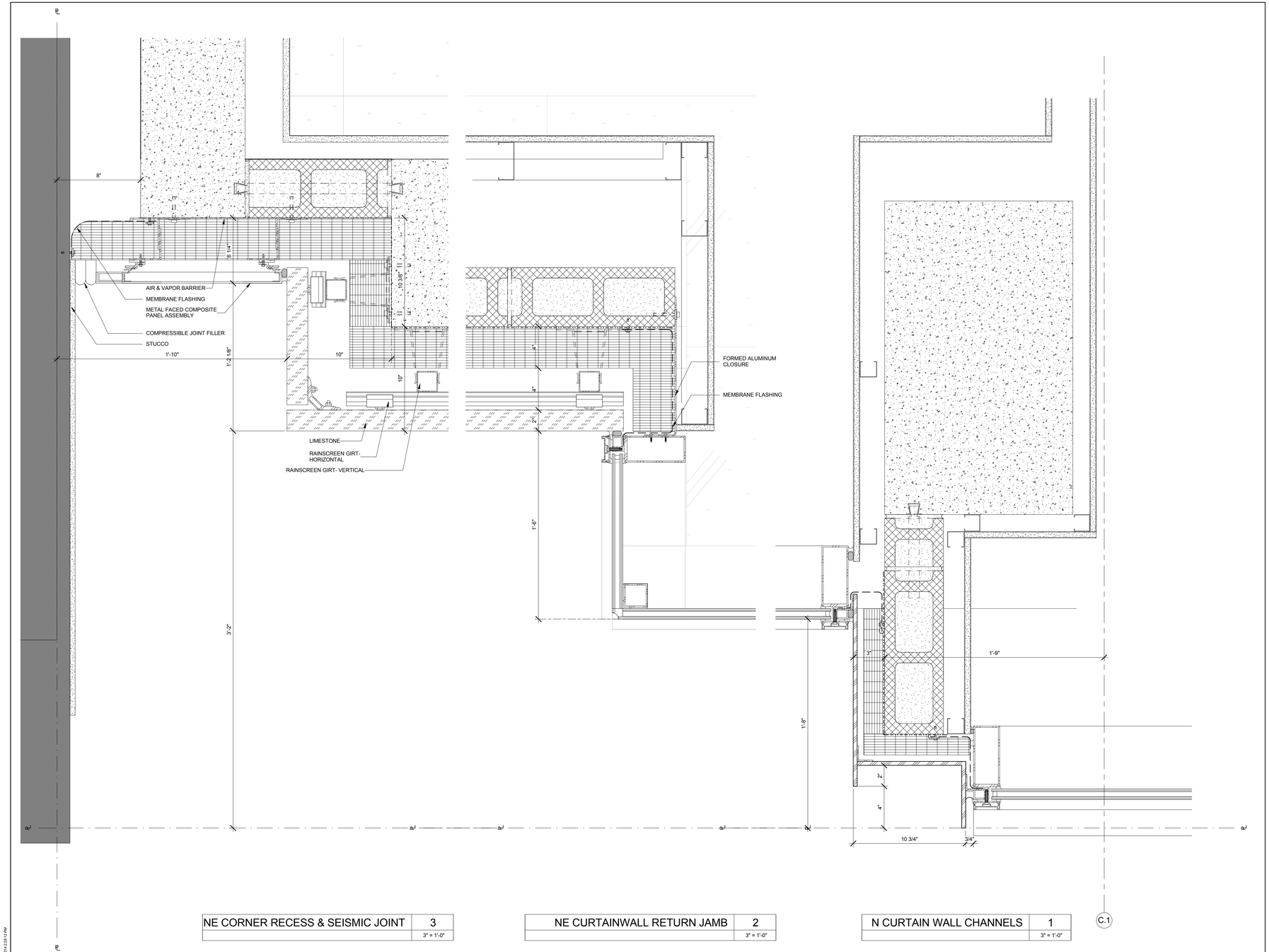

NE CORNER RECESS & SEISMIC JOINT	3
	3" = 1'-0"

NE CURTAINWALL RETURN JAMB	2
	3" = 1'-0"

N CURTAIN WALL CHANNELS	1
	3" = 1'-0"

DEPT OF BLDGS 121328919 Job Number

ES694441959 Scan Code

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Project:
8 West 70th

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Sheet Title:
NE CORNER DETAILS

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 3" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT SAMUEL G. WHITE NO. 14775 STATE OF NEW YORK

Sheet Number:
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Sheet: 67 of 81

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DEPT OF BLDGS 121328919 Job Number

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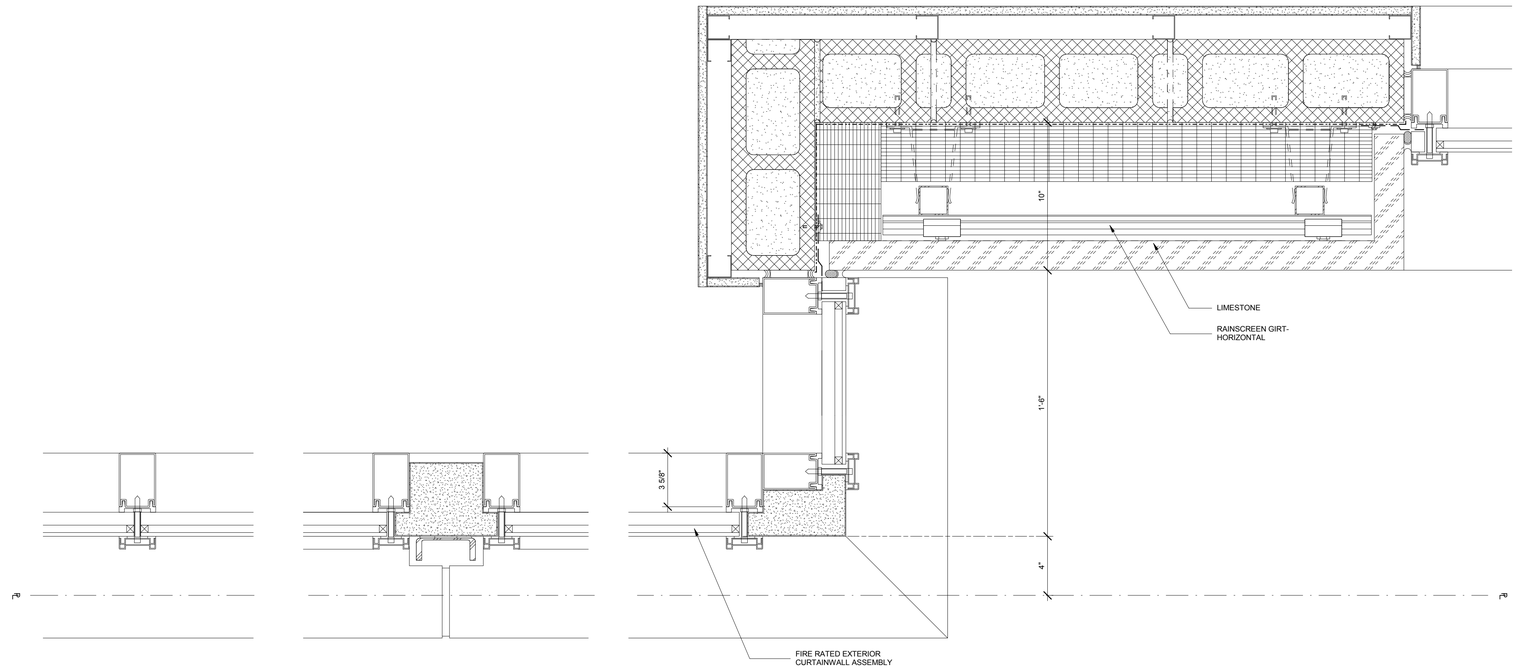
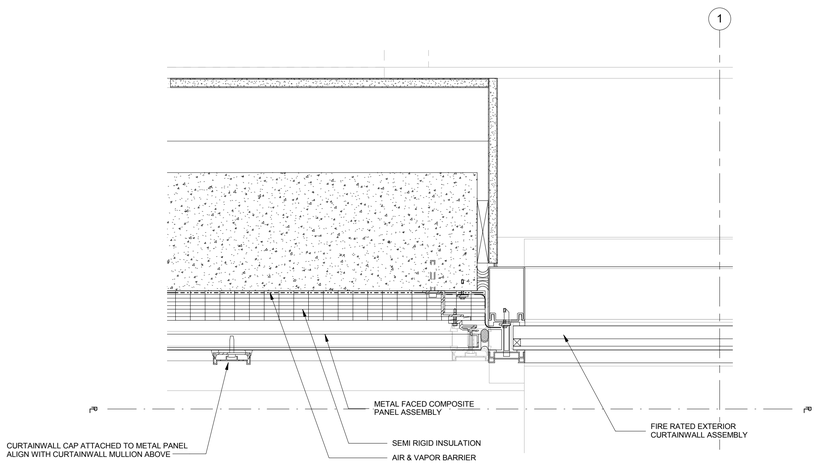


E CW TYPICAL VERT. MULL	4
	3" = 1'-0"

E CW VERT CHANNEL MULL	3
	3" = 1'-0"

E CURTAINWALL END CLOSURE	1
	3" = 1'-0"



E CURTAINWALL AT METAL PANEL	2
	3" = 1'-0"

3/19/2014 2:53:19 PM

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Project:
8 West 70th

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Sheet Title:
EAST CURTAINWALL PLAN DETAILS

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 3" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT
SAMUEL G WHITE
NO. 14175
STATE OF NEW YORK

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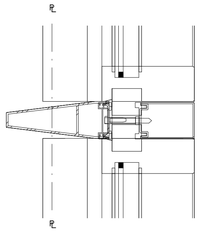
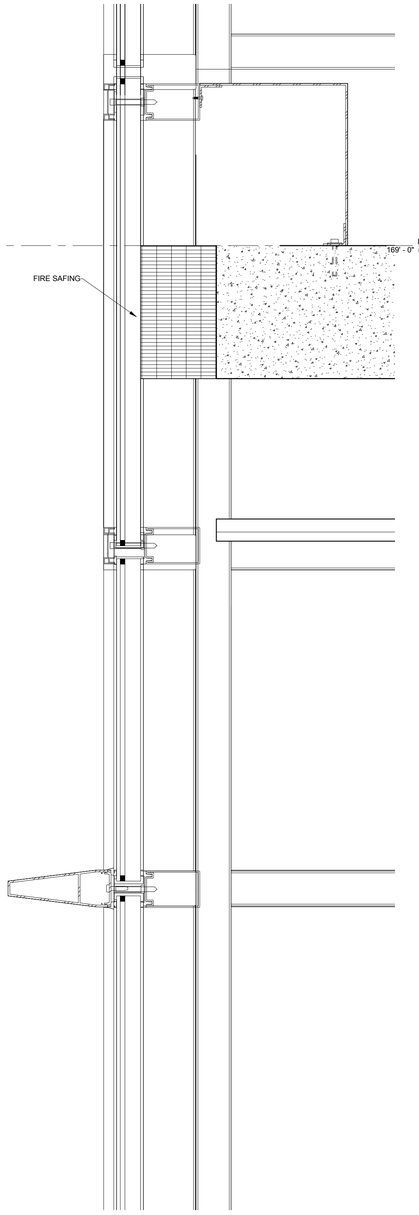
DEPT OF BLDGS 121328919 Job Number

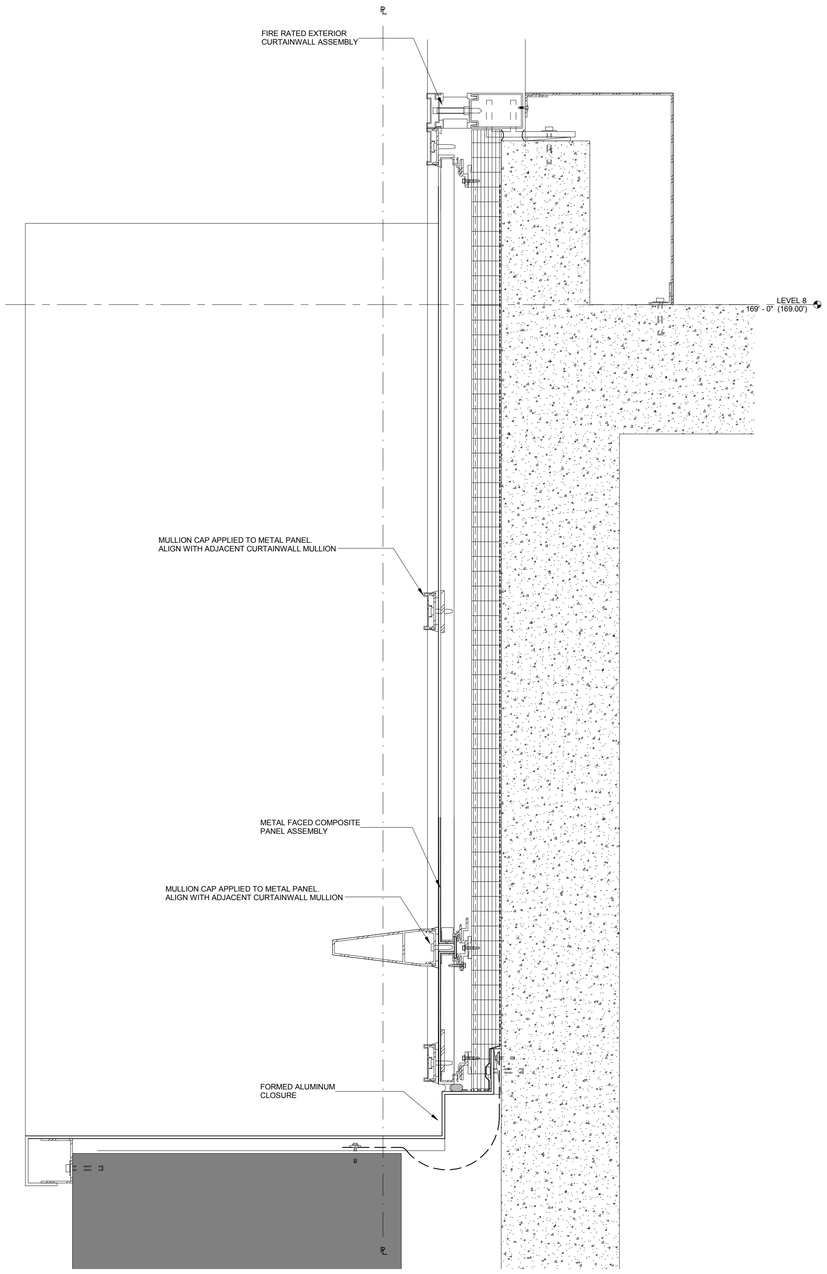
ES3347078850 Scan Code



EAST CURTAINWALL HORIZ. FIN | 4 | 3" = 1'-0"



EAST CURTAIN WALL TYPICAL SPANDREL | 2 | 3" = 1'-0"



EAST CURTAINWALL BASE @ SLOPED ROOF | 1 | 3" = 1'-0"

3/19/2014 2:29:29 PM

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Date: 05/04/2015
NYC Development Hub

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Project:
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Sheet Title:
EAST CURTAIN WALL DETAILS

Project Number: 12639
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Scale: 3" = 1'-0"

Signature & Seal:
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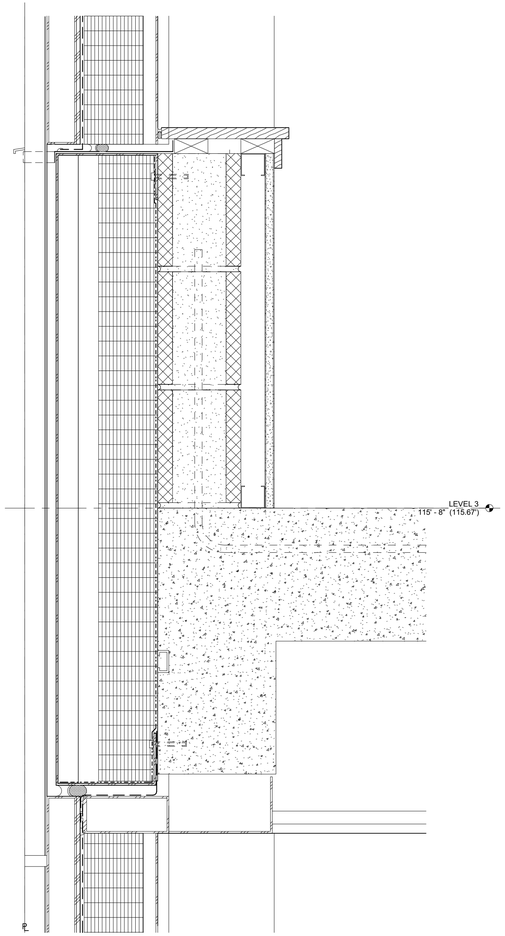
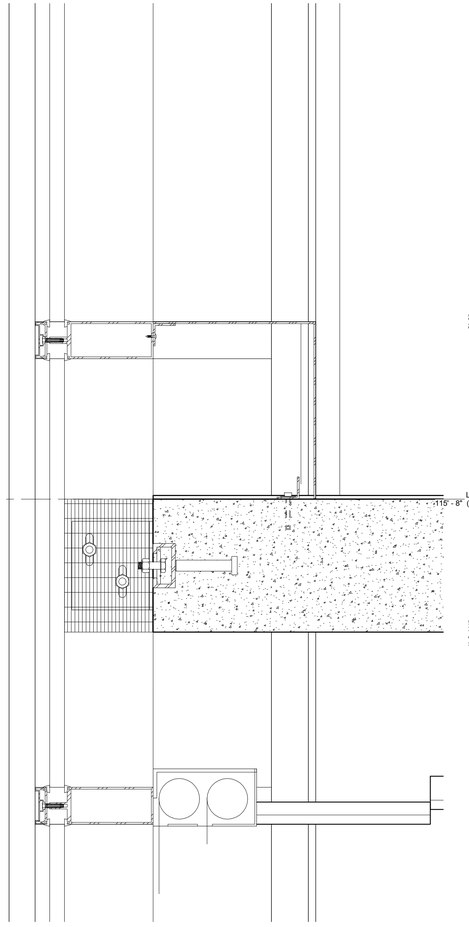
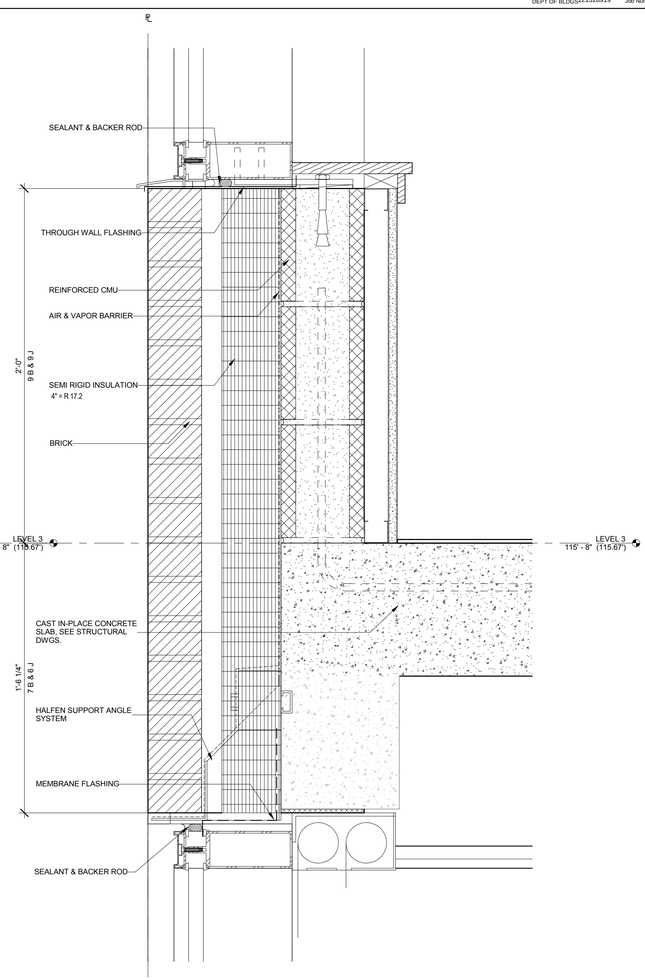


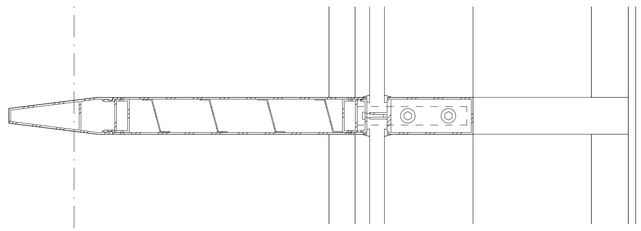
NORTH SPANDREL - BRICK @ CHANNEL REVEAL | 5 | 3" = 1'-0"



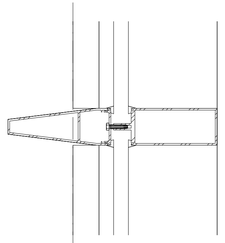
NORTH FACADE SPANDREL AT CURTAINWALL | 4 | 3" = 1'-0"



NORTH SPANDREL - BRICK2 | 2 | 3" = 1'-0"



TYPICAL HORIZ. FIN AT NE CW | 3 | 3" = 1'-0"



TYPICAL HORIZ. FIN AT WINDOW | 1 | 3" = 1'-0"

3/19/2014 12:24 PM

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Sheet Title:
NORTH FACADE SPANDRELS

Project Number: 12639
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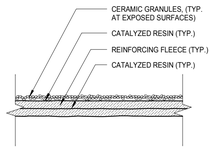

TYP. FLUID APPLIED MEMBRANE	9
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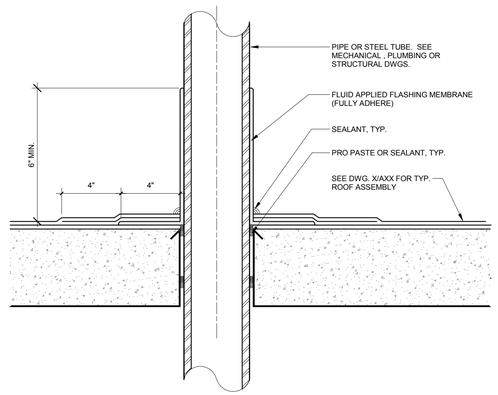
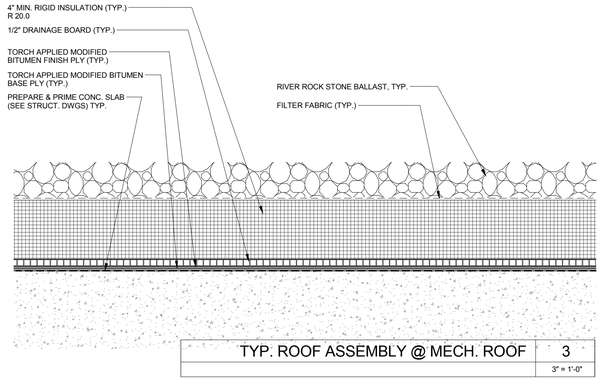
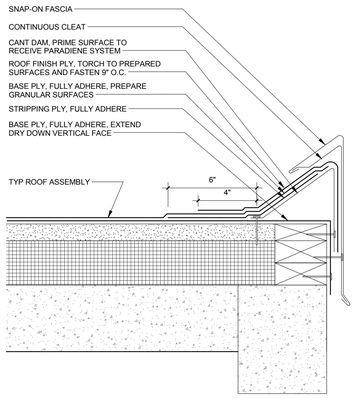


TYPICAL PIPE PENETRATION DTL	6
	3" = 1'-0"



TYP. ROOF ASSEMBLY @ MECH. ROOF	3
	3" = 1'-0"



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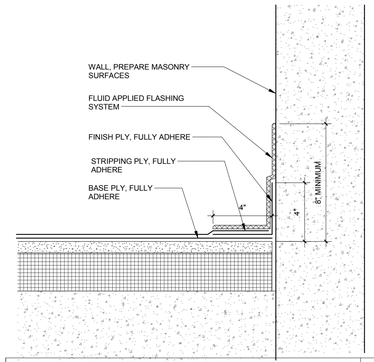

TYP. FLASHING AT PIP CONC. WALL	5
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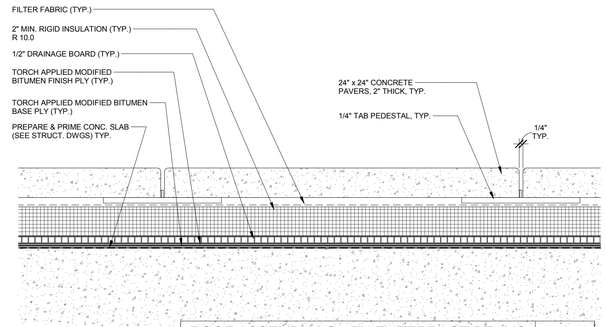
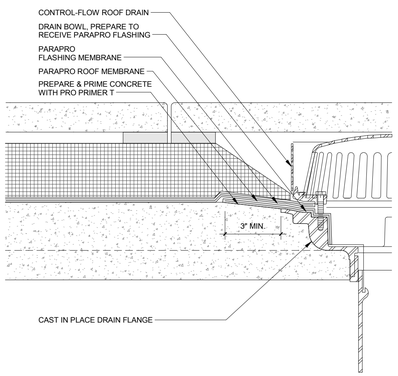
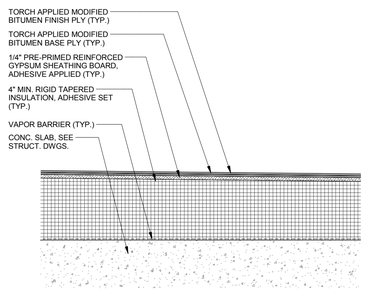


ROOF ASSEMBLY @ 5TH FL TERRACE BEAMS	2
	3" = 1'-0"



TYP. ROOF DRAIN DTL	7
	3" = 1'-0"



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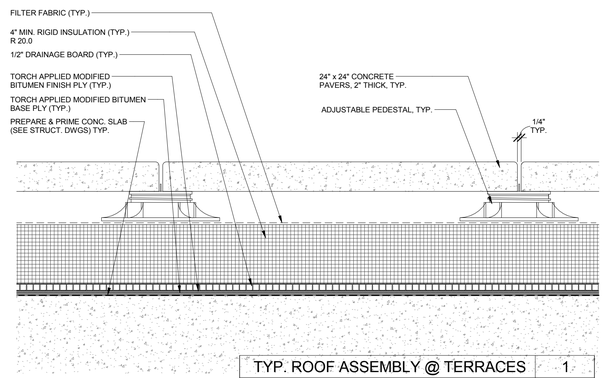

TYP. ROOF ASSEMBLY @ TERRACES	1
	3" = 1'-0"

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Date:	No.:	Description:
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01.31.14		Guaranteed Max Price (80% CD)

Project:
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Sheet Title:
ROOFING DETAILS

Project Number: 12639
Drawn By: Author
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Scale: 3" = 1'-0"

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NYC DOB Number: 121328919
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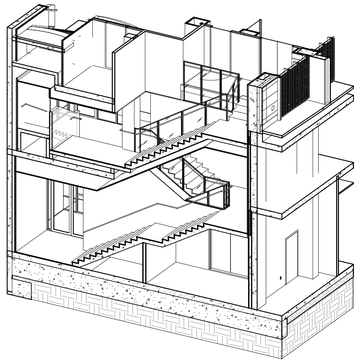
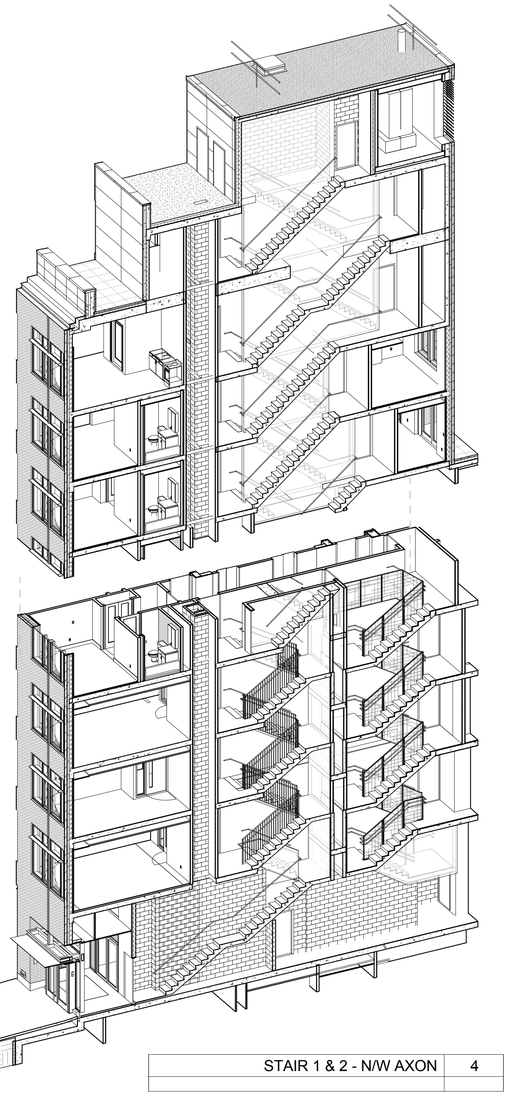
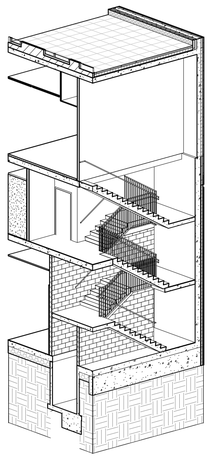


STAIR 4 - N/E AXON | 1





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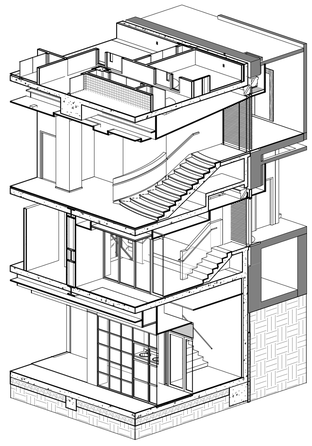

STAIR 3 & 4 - S/W AXON | 2

STAIR 1 & 2 - N/W AXON | 4

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05.10.13		DOB Zoning & Egress

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New York, NY 10023

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STAIRS - AXONOMETRIC DIAGRAMS

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Scale:

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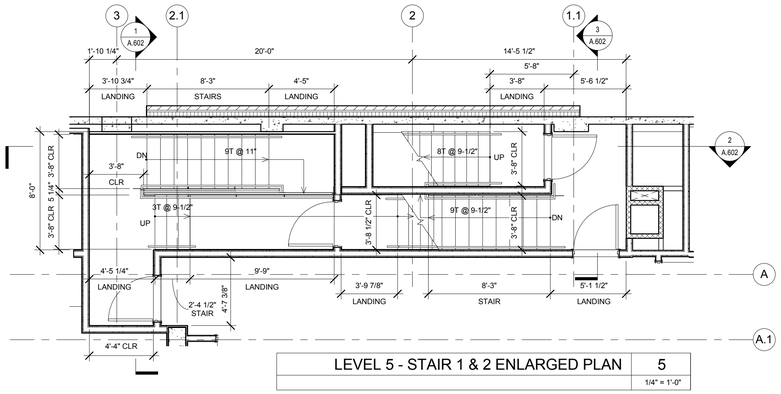
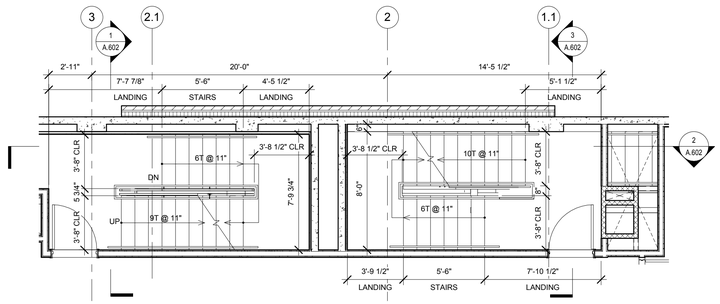
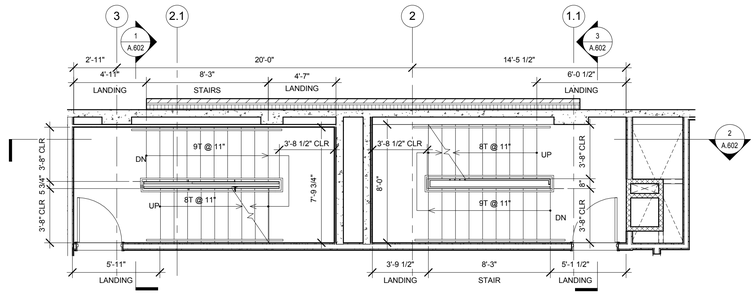


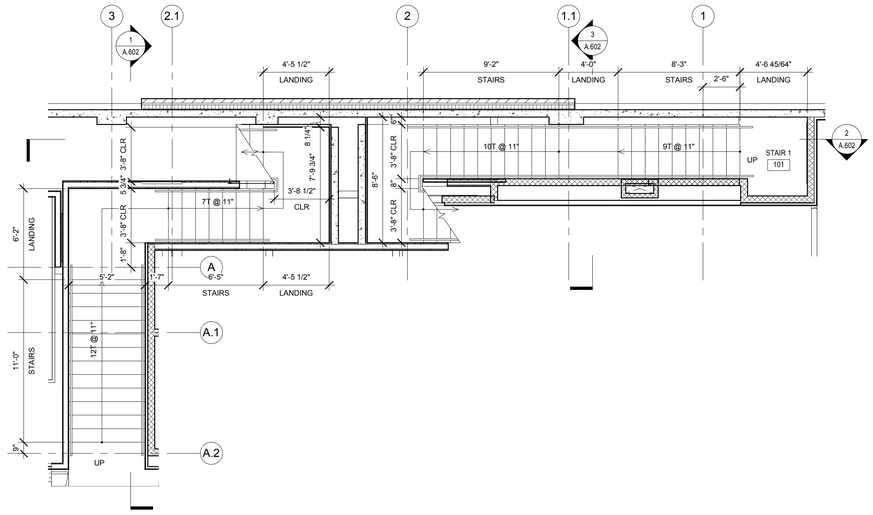
LEVEL 5 - STAIR 1 & 2 ENLARGED PLAN | 5 | 1/4" = 1'-0"



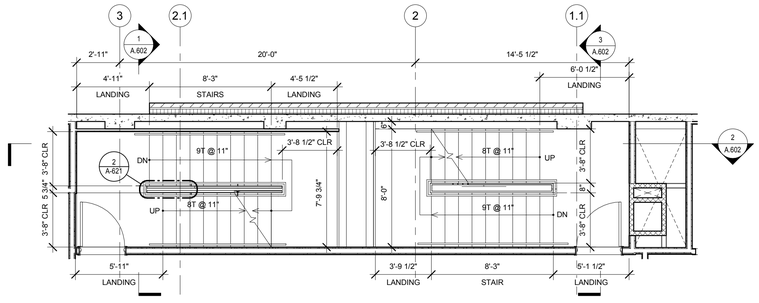
LEVEL 2 - STAIR 1 & 2 ENLARGED PLAN | 2 | 1/4" = 1'-0"



LEVEL 4 - STAIR 1 & 2 ENLARGED PLAN | 4 | 1/4" = 1'-0"



LEVEL 1 - STAIR 1 & 2 ENLARGED PLAN | 1 | 1/4" = 1'-0"



LEVEL 3 - STAIR 1 & 2 ENLARGED PLAN | 3 | 1/4" = 1'-0"

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Sheet Title:
STAIRS 1 & 2 - ENLARGED PLANS - LEVELS 1-5

Project Number: 12639
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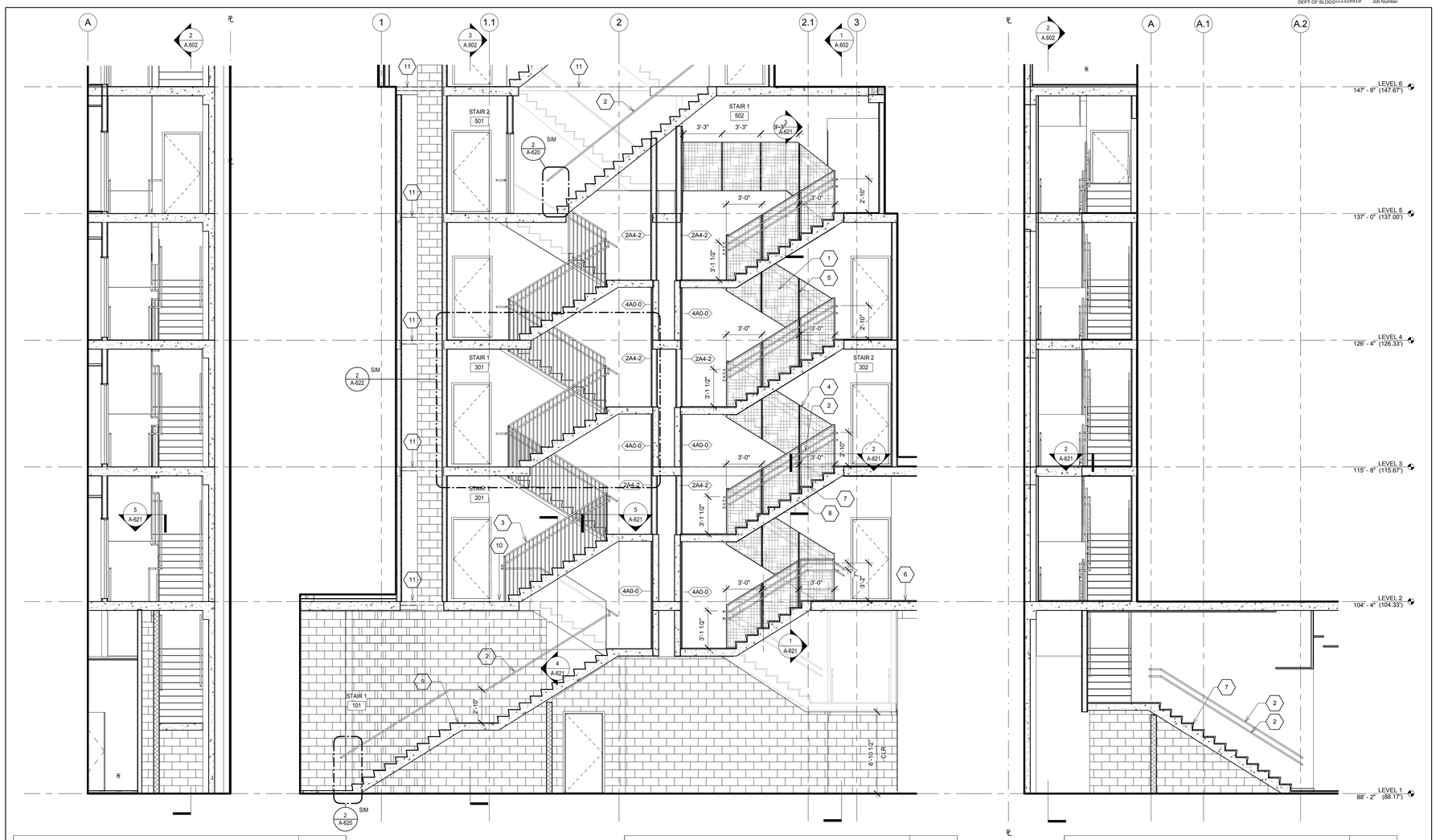

STAIR 1 - E / W SECTION - L1-5	3
	1/4" = 1'-0"

STAIR 1 & 2 - N / S SECTION - L1-5	2
	1/4" = 1'-0"

STAIR 2 - E / W SECTION - L1-5	1
	1/4" = 1'-0"

KEYNOTE LEGEND	
KEY	KEYNOTE
6	PRECAST EPOXY TERRAZZO LANDING SLAB (SINGLE UNIT)
7	PRECAST EPOXY TERRAZZO TREAD & RISER W/ INSET PHOTOLUMINESCENT NOSING STRIP, TYP.
8	SKIM COAT, PAINTED.
9	RUBBER TREAD & RISER W/ INSET PHOTOLUMINESCENT NOSING STRIP, TYP.
10	RUBBER FLOOR TILE AT LANDINGS, TYP.
11	STEEL TUBE, SEE STRUCTURAL

KEYNOTE LEGEND	
KEY	KEYNOTE
1	14 GA PERFORATED METAL GUARDRAIL PANELS
2	1-1/4" O.D. PAINTED STEEL HANDRAIL
3	STEEL TUBE GUARDRAIL MOUNTED TO CONCRETE STAIR STINGER WITH 1-1/4" STEEL HANDRAIL, TYP.
4	1 1/2" X 3/8" THICK PAINTED HORIZONTAL STEEL BAR WELDED TO VERTICAL PAINTED 1-1/8" X 1/4" STEEL BAR, TYP.
5	PAINTED STEEL BULASTER SUPPORT W/ 1/4" THICK PAINTED STEEL CUT PLATE HANDRAIL BRACKET

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Sheet Title:
STAIRS 1 & 2 - SECTIONS - LEVELS 1-5

Project Number: 12639
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No. 14175
STATE OF NEW YORK

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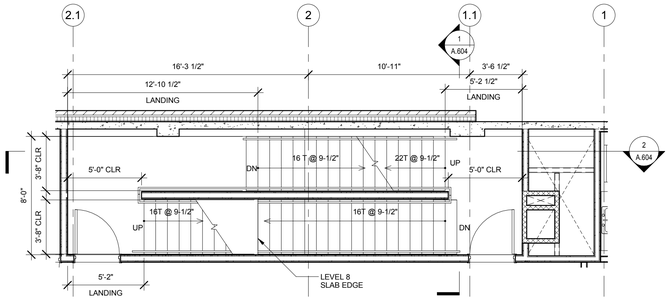
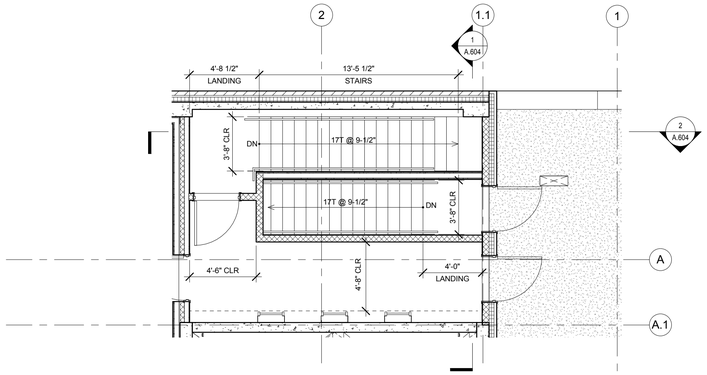
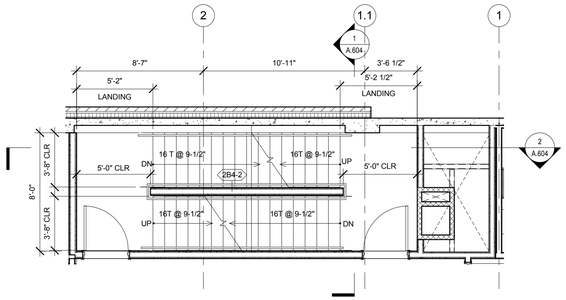


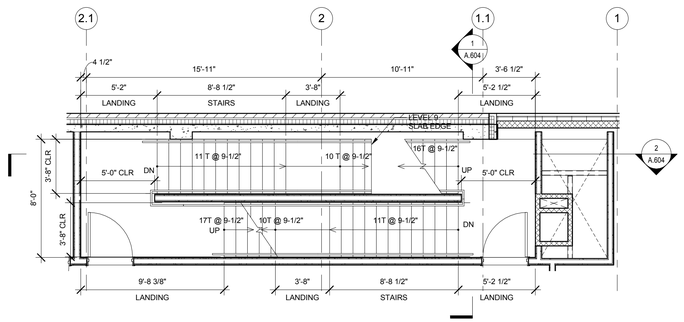
LEVEL 8 - STAIR 1 & 2 ENLARGED PLAN	3
	1/4" = 1'-0"



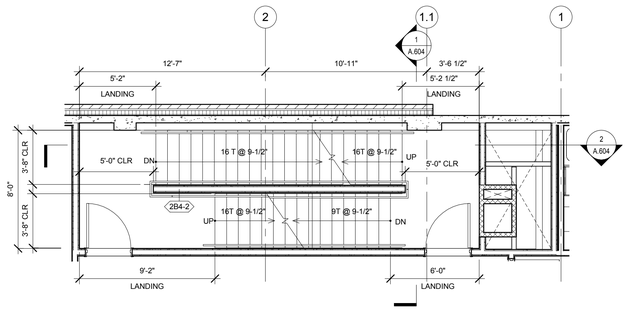
LEVEL 10 - STAIR 1 & 2 ENLARGED PLAN	5
	1/4" = 1'-0"



LEVEL 7 - STAIR 1 & 2 ENLARGED PLAN	2
	1/4" = 1'-0"



LEVEL 9 - STAIR 1 & 2 ENLARGED PLAN	4
	1/4" = 1'-0"



LEVEL 6 - STAIR 1 & 2 ENLARGED PLAN	1
	1/4" = 1'-0"

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Sheet Title:
STAIRS 1 & 2 - ENLARGED PLANS - LEVELS 6-10

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No. 14175
STATE OF NEW YORK

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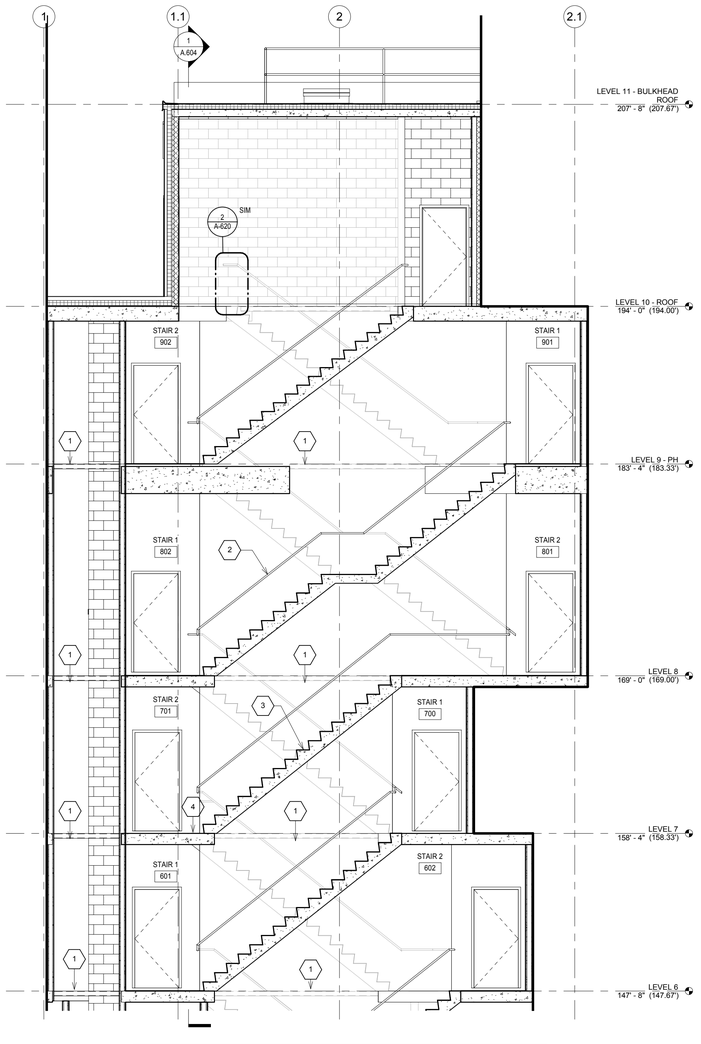
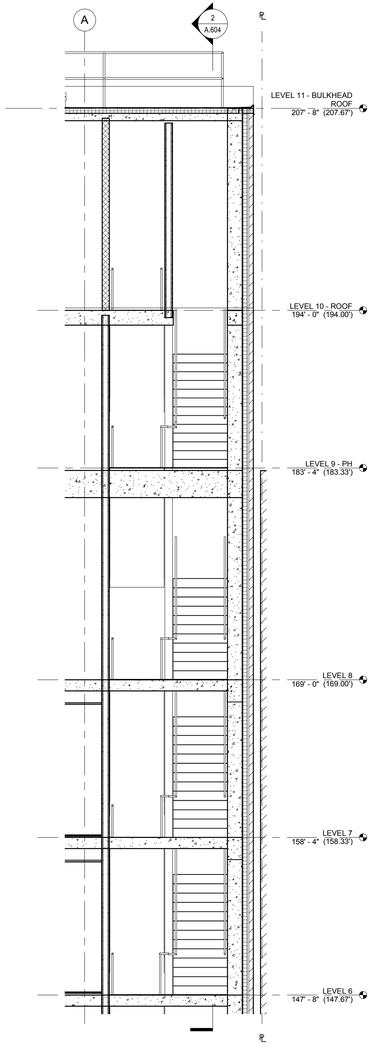


STAIR 1 & 2 - N / S SECTION - L6-10	2
	1/4" = 1'-0"



STAIR 1 & 2 - E / W SECTION - L6-10	1
	1/4" = 1'-0"

KEYNOTE LEGEND

KEY	KEYNOTE
1	STEEL TUBE, SEE STRUCTURAL
2	1-1/4" O.D. PAINTED STEEL HANDRAIL
3	GWB ASSEMBLY, SEE PARTITON TYPE
4	RUBBER FLOOR TILE AT LANDINGS, TYP.

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STAIRS 1 & 2 - SECTIONS - LEVELS 6-10

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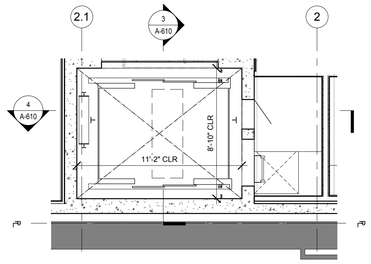
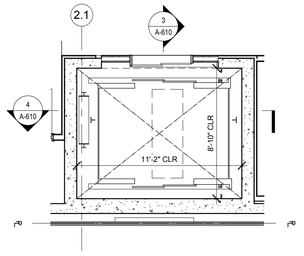
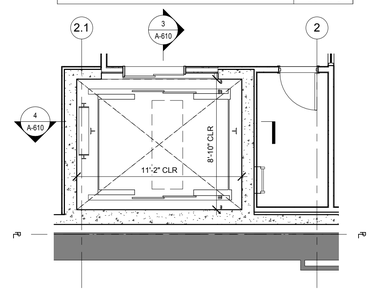


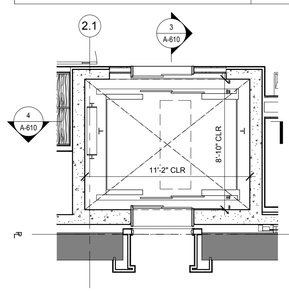
ELEV 1 - LEVEL 5 | 7 | 1/4" = 1'-0"



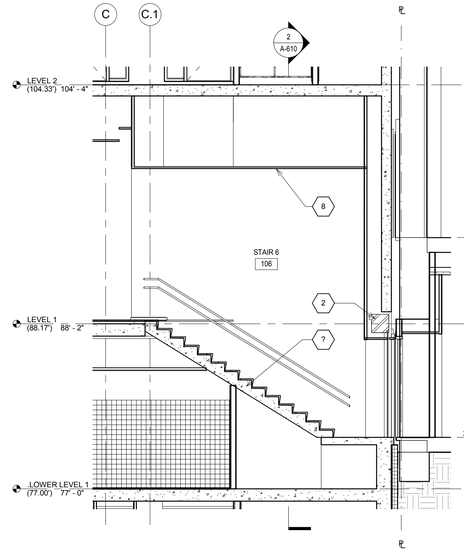
ELEV 1 - LEVEL 3 | 5 | 1/4" = 1'-0"



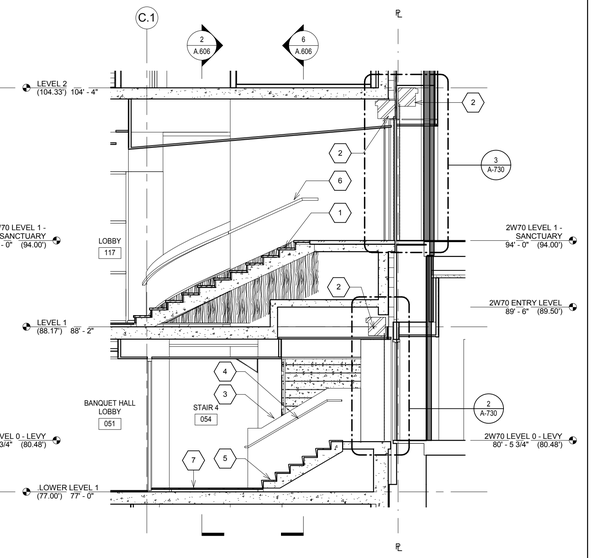
ELEV 1 - LEVEL 4 | 6 | 1/4" = 1'-0"



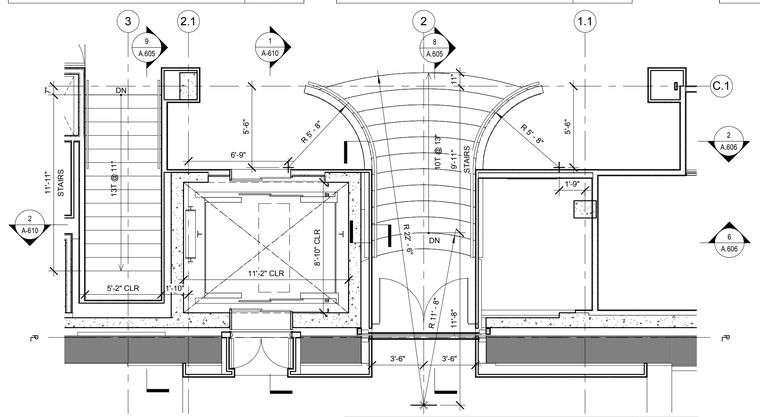
ELEV 1 - LEVEL 2 | 4 | 1/4" = 1'-0"



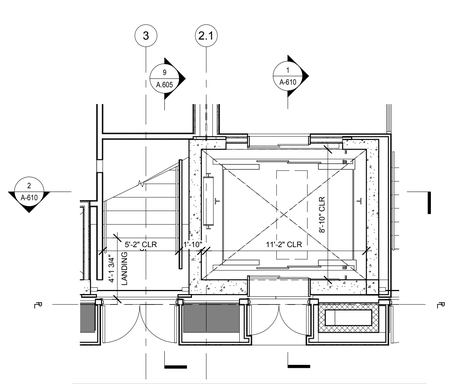
STAIR 6 - SECTION | 9 | 1/4" = 1'-0"



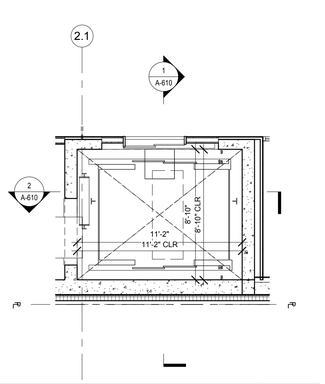
STAIR 3 - SECTION | 8 | 1/4" = 1'-0"



STAIR 3, 6 & ELEV 1 - LEVEL 1 | 3 | 1/4" = 1'-0"



STAIR 6 & ELEV 1 - LOWER LEVEL 1 | 2 | 1/4" = 1'-0"



ELEV 1 - LOWER LEVEL 2 | 1 | 1/4" = 1'-0"

KEYNOTE LEGEND	
KEY	KEYNOTE
1	STONE TREADS WITH WD RISERS ON CAST-IN-PLACE CONCRETE SUBSTRUCTURE
2	FIRE RATED OVERHEAD COILING DOOR
3	GWB GUARD RAIL W/ METAL CAP
4	1-1/4" O.D. PAINTED STEEL HANDRAIL
5	GWB ASSEMBLY, SEE PARTITON TYPE
6	ORNAMENTAL RAIL
7	PRECAST EPOXY TERRAZZO LANDING SLAB (SINGLE UNIT)
8	GWB CEILING

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
01.31.14		Guaranteed Max Price (80% CD)
07.01.13		80% CD Pricing Set
05.10.13		DOB Zoning & Egress

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
STAIR 3, 6 & ELEV 1 ENLARGED PLANS & SECTIONS

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 1/4" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT
SAMUEL G WHITE
No. 14175
STATE OF NEW YORK

Sheet Number:
A.605.00

NYC DOB Number: 121328919
Sheet: 77 of 81

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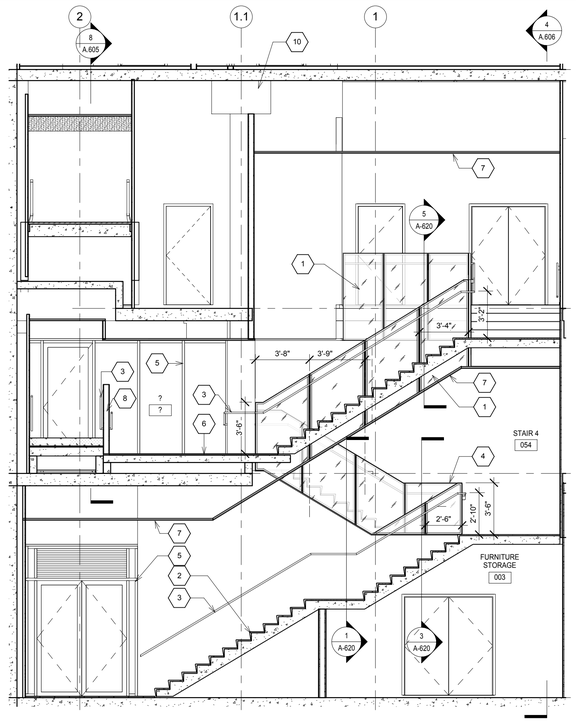
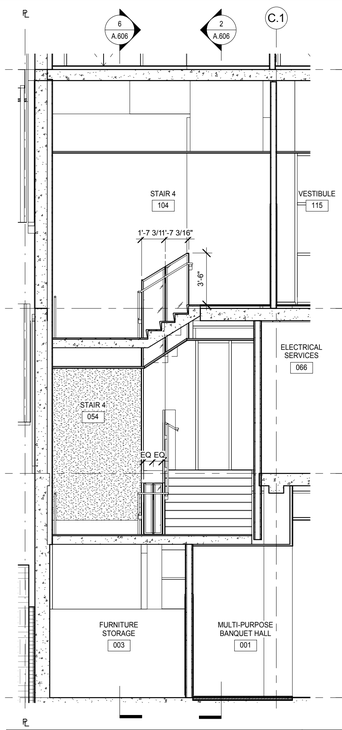
Opp. Ex. 1001 Page 77 of 205

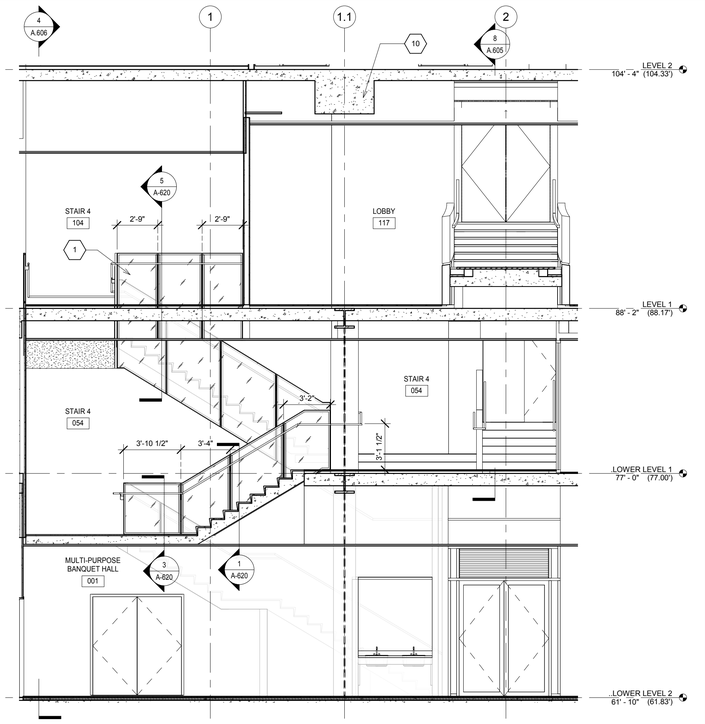
DEPT OF BLDGS 121328919 Job Number
ES378681369 Scan Code



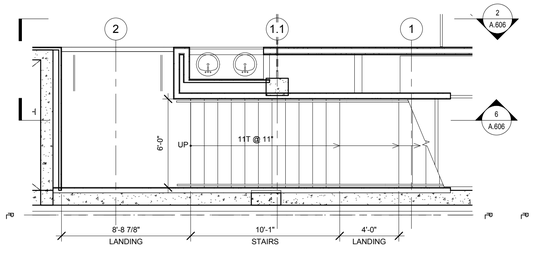
STAIR 4 - N / S SECTION - WEST | 6
1/4" = 1'-0"



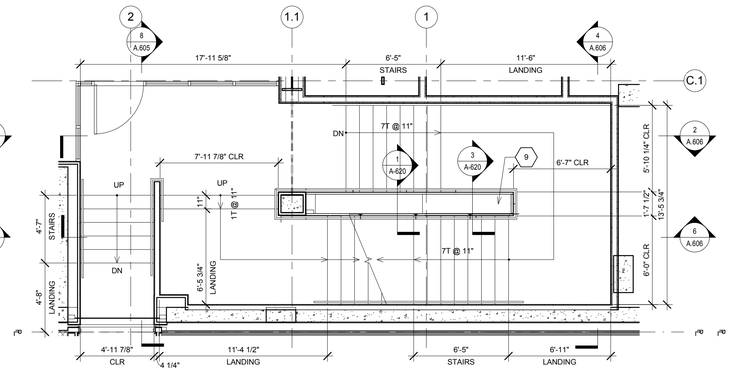
STAIR 4 - E / W - SOUTH | 4
1/4" = 1'-0"



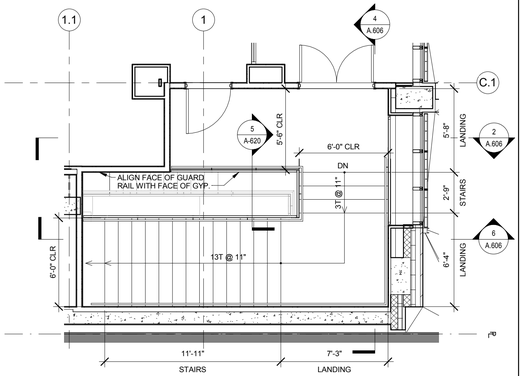
STAIR 4 - N / S SECTION - EAST | 2
1/4" = 1'-0"



STAIR 4 - BANQUET HALL - LOWER LEVEL 2 | 5
1/4" = 1'-0"



STAIR 4 - BANQUET HALL - LOWER LEVEL 1 | 3
1/4" = 1'-0"



STAIR 4 - BANQUET HALL - LEVEL 1 | 1
1/4" = 1'-0"

KEYNOTE LEGEND	
KEY	KEYNOTE
1	1/4" TEMPERED FROSTED GLASS GUARDRAIL PANELS MECHANICALLY FASTENED TO STEEL BARS, TYP.
2	PRECAST EPOXY TERRAZZO TREAD & RISER W/ INSET PHOTOLUMINESCENT NOSING STRIP, TYP.
3	1-1/4" O.D. PAINTED STEEL HANDRAIL
4	1 1/2" X 3/8" THICK PAINTED HORIZONTAL STEEL BAR WELDED TO VERTICAL PAINTED 1-1/8" X 1/4" STEEL BAR, TYP.

KEYNOTE LEGEND	
KEY	KEYNOTE
5	RATED METAL & GLASS PARTITION
6	PRECAST EPOXY TERRAZZO LANDING SLAB (SINGLE UNIT)
7	GWB CEILING
8	GWB GUARD RAIL W/ METAL CAP
9	METAL CAP
10	CAST IN-PLACE CONCRETE TRANSFER GIRDER, SEE STRUCTURAL DWGS.

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718.383.9340
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Shaugat Shaikh
NYC Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14		DOB New Building Permit Set
01.31.14		Guaranteed Max Price (80% CD)
07.01.13		80% CD Pricing Set
05.10.13		DOB Zoning & Egress

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
STAIR 4 - ENLARGED PLANS & SECTIONS

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 1/4" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT
DANIEL G. DOVELL
No. 14175
STATE OF NEW YORK

Sheet Number:
A.606.00

NYC DOB Number: 121328919
Sheet: 78 of 81

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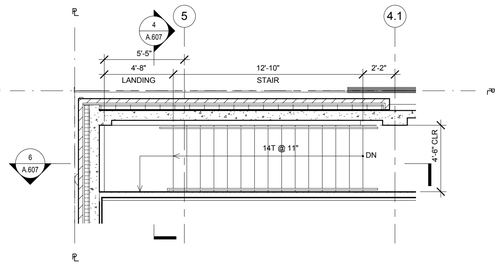
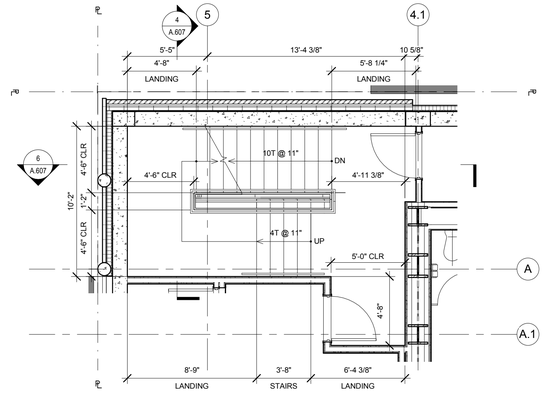
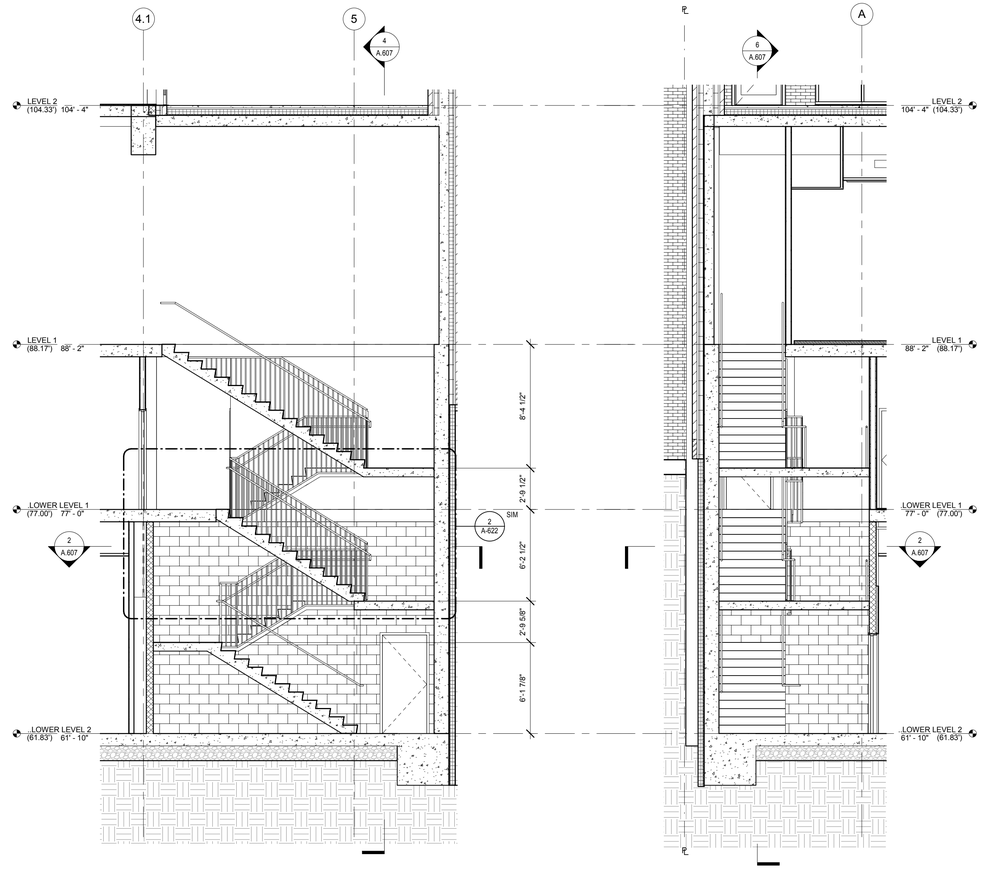
ES7425658945 Scan Code



STAIR 5 - LEVEL 1	5
	1/4" = 1'-0"

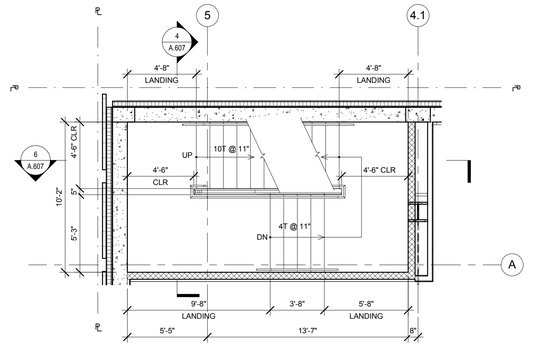


STAIR 5 - LOWER LEVEL 1	3
	1/4" = 1'-0"

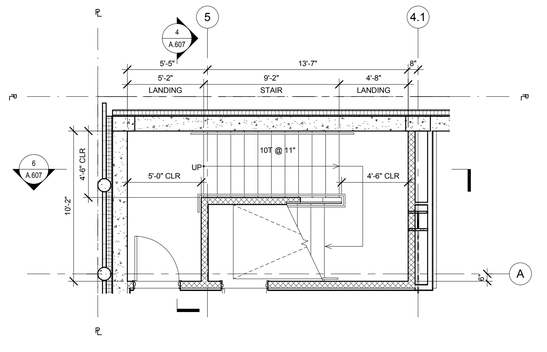


STAIR 5 - N / S SECTION	6
	1/4" = 1'-0"

STAIR 5 - E / W SECTION	4
	1/4" = 1'-0"



STAIR 5 - LOWER LEVEL 2 LANDING	2
	1/4" = 1'-0"



STAIR 5 - LOWER LEVEL 2	1
	1/4" = 1'-0"

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Under Directive 2 of 1975
Date: 05/04/2015
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Date:	No.:	Description:
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Project:
8 West 70th

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New York, NY 10023

Sheet Title:
STAIR 5 - ENLARGED PLANS AND SECTIONS -

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 1/4" = 1'-0"

Signature & Seal:
REGISTERED ARCHITECT SAMUEL G WHITE NO. 14175 STATE OF NEW YORK

Sheet Number:
A.607.00

NYC DOB Number: 121328919
Sheet: 79 of 81

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DEPT OF BLDGS 121328919 Job Number
E359126023SE Scan Code

COM*check* Software Version 3.9.3

Envelope Compliance Certificate

2010 New York Energy Conservation Construction Code (by application of 90.1 (2007) Standard)

Section 1: Project Information

Project Type: **New Construction**
Project Title : 8 WEST 70TH STREET

Construction Site:
8 West 70th Street
New York, NY 10023

Owner/Agent:

Designer/Contractor:

Section 2: General Information

Building Location (for weather data):	**New York, New York**
Climate Zone:	**4a**
Building Space Conditioning Type(s):	**Nonresidential, Residential**
Vertical Glazing / Wall Area Pct.:	**22%**

Activity Type(s)	Floor Area
Common Space Types:Conference/Meeting/Multipurpose	8409
Common Space Types:Active Storage	949
Common Space Types:Electrical/Mechanical	4564
Common Space Types:Stairs-Active	5568
Common Space Types:Food Preparation	3472
Common Space Types:Restrooms	2456
Common Space Types:Lobby	2674
Common Space Types:Corridor/Transition	3515
Common Space Types:Classroom/Lecture/Training	1344
Common Space Types:Office - Enclosed	1415
Common Space Types:Office - Open Plan	2866

Section 3: Envelope Assemblies

Envelope **PASSES** (Design 3% better than code.)

Climate-Specific Requirements:

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
WT-3A: Concrete Block:6", Partially Grouted, Cells Empty,Light Density , Furring: None, Nonresidential Comments: BRICK VENEER 1/CMU	1917	---	17.2	0.051	0.104
GL-1: Metal Frame with Thermal Break, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.36, Nonresidential (c) Comments: VISION IGU	758	---	---	0.460	0.550
GL-1A: Metal Frame with Thermal Break, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.38, Nonresidential (c) Comments: OPERABLE VISION	189	---	---	0.480	0.550
DOOR AL-4: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf, Type: Energy code default, Double Pane with Low-E, Clear , SHGC 0.68, Nonresidential	50	---	---	0.900	0.850
WT-4A: Steel-Framed, 16" o.c., Nonresidential Comments: STONE RAINSCREEN/MTL STUD	73	0.0	17.9	0.048	0.064
WT-5: Concrete Block:6", Partially Grouted, Cells Empty,Light Density , Furring: None, Nonresidential	609	---	17.2	0.051	0.104
Comments: MTL RAINSCREEN:CMU					
DOOR HM-1: Insulated Metal, Swinging, Nonresidential	45	---	---	0.067	0.700
WT-4: Concrete Block:6", Partially Grouted, Cells Empty,Light Density , Furring: None, Nonresidential Comments: STONE RAINSCREEN:CMU	1012	---	17.2	0.051	0.104
GL-2: Metal Frame with Thermal Break, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.29, Nonresidential (c) Comments: SPANDREL IGU	93	---	---	0.460	0.550
DOOR WD-7: Wood, Swinging, Nonresidential	103	---	---	0.400	0.700
GL-1: Metal Frame with Thermal Break, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.36, Nonresidential (c) Comments: VISION IGU	220	---	---	0.460	0.550
GL-1B: Metal Frame with Thermal Break, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.36, Nonresidential (c) Comments: VISION IGU W SILKSCREEN PATTER	211	---	---	0.460	0.550
WT-5A: Solid Concrete:6" Thickness,Normal Density , Furring: None, Nonresidential Comments: MTL RAINSCREEN/6" CONC	248	---	17.2	0.053	0.104
WT-7: Solid Concrete:6" Thickness,Normal Density , Furring: None, Nonresidential Comments: BRICK VENEER 2/6" CONC	4154	---	17.2	0.053	0.104
WT-7A: Solid Concrete:8" Thickness,Normal Density , Furring: None, Nonresidential Comments: BRICK VENEER 2/8" CONC	2001	---	17.2	0.053	0.104
WT-3B: Concrete Block:6", Partially Grouted, Cells Empty,Light Density , Furring: None, Nonresidential Comments: BRICK VENEER 2/CMU	1828	---	17.2	0.051	0.104
DOOR AL-3: Glass (> 50% glazing):Metal Frame, Non-Entrance Door, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.31, Nonresidential (c)	152	---	---	0.420	0.550
GL-1: Metal Frame with Thermal Break, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.36, Nonresidential (c) Comments: VISION IGU	336	---	---	0.460	0.550
WT-7B: Solid Concrete:12" Thickness,Normal Density , Furring: None, Nonresidential Comments: BRICK VENEER 2/12" CONC	819	---	17.2	0.052	0.104
WT-3A: Concrete Block:6", Partially Grouted, Cells Empty,Light Density , Furring: None, Residential Comments: BRICK VENEER 1/CMU	2217	---	17.2	0.051	0.090
GL-1: Metal Frame with Thermal Break, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.36, Residential (c) Comments: VISION IGU	902	---	---	0.460	0.550
GL-1A: Metal Frame with Thermal Break, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.38, Residential (c) Comments: OPERABLE VISION	240	---	---	0.480	0.550
WT-3B: Concrete Block:6", Partially Grouted, Cells Empty,Light Density , Furring: None, Residential Comments: BRICK VENEER 2/CMU	2792	---	17.2	0.051	0.090
GL-1A: Metal Frame with Thermal Break, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.38, Residential (c) Comments: OPERABLE VISION	294	---	---	0.480	0.550
DOOR AL-3: Glass (> 50% glazing):Metal Frame, Non-Entrance Door, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.31, Residential (c)	85	---	---	0.420	0.550
GL-1: Metal Frame with Thermal Break, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.36, Residential (c) Comments: VISION IGU	347	---	---	0.460	0.550
WT-4: Concrete Block:6", Partially Grouted, Cells Empty,Light Density , Furring: None, Residential Comments: STONE RAINSCREEN:CMU	2761	---	17.2	0.051	0.090
GL-1: Metal Frame with Thermal Break, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.36, Residential (c) Comments: VISION IGU	463	---	---	0.460	0.550
GL-1A: Metal Frame with Thermal Break, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.38, Residential (c) Comments: OPERABLE VISION	77	---	---	0.480	0.550
GL-2: Metal Frame with Thermal Break, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.29, Residential (c)	98	---	---	0.460	0.550
Comments: SPANDREL IGU					
GL-3: Metal Frame with Thermal Break, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.36, Residential (c) Comments: RATED VISION IGU	741	---	---	0.460	0.550
GL-4: Metal Frame with Thermal Break, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.29, Residential (c) Comments: RATED SPANDREL IGU	42	---	---	0.460	0.550
DOOR AL-3: Glass (> 50% glazing):Metal Frame, Non-Entrance Door, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.31, Residential (c)	44	---	---	0.420	0.550
WT-5: Concrete Block:6", Partially Grouted, Cells Empty,Light Density , Furring: None, Residential Comments: MTL RAINSCREEN/CMU	384	---	17.2	0.051	0.090
WT-5A: Solid Concrete:6" Thickness,Normal Density , Furring: None, Residential Comments: MTL RAINSCREEN/6" CONC	1367	---	17.2	0.053	0.090
GL-5: Metal Frame with Thermal Break, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.38, Residential (c) Comments: LAMINATED VISION IGU	875	---	---	0.460	0.550
DOOR AL-3: Glass (> 50% glazing):Metal Frame, Non-Entrance Door, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.31, Residential (c)	216	---	---	0.420	0.550
WT-6: Concrete Block:6", Partially Grouted, Cells Empty,Light Density , Furring: None, Residential Comments: MTL PANEL/CMU	63	---	8.6	0.090	0.090
GL-3: Metal Frame with Thermal Break, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.36, Residential (c) Comments: RATED VISION IGU	26	---	---	0.460	0.550
GL-4: Metal Frame with Thermal Break, Perf, Type: Other testing/cert. Product ID: NA, SHGC 0.29, Residential (c) Comments: RATED SPANDREL IGU	4	---	---	0.460	0.550
WT-4A: Solid Concrete:8" Thickness,Normal Density , Furring: None, Residential Comments: MTL PANEL/8" CONC	153	---	8.6	0.096	0.090
Basement Wall - N: Solid Concrete:12" Thickness, Normal Density, Furring: None, Wall Ht 26.3, Depth B.G. 26.3, Nonresidential	1633	---	20.0	0.046	0.579
Basement Wall - E1: Solid Concrete:12" Thickness, Normal Density, Furring: None, Wall Ht 20.0, Depth B.G. 20.0, Nonresidential	661	---	0.0	0.630	0.579
Basement Wall - E2: Solid Concrete:12" Thickness, Normal Density, Furring: None, Wall Ht 26.3, Depth B.G. 26.3, Nonresidential	1843	---	0.0	0.630	0.579
Basement Wall - E3: Solid Concrete:12" Thickness, Normal Density, Furring: None, Wall Ht 26.3, Depth B.G. 26.3, Nonresidential	312	---	20.0	0.046	0.579
Basement Wall - S1: Solid Concrete:12" Thickness, Normal Density, Furring: None, Wall Ht 22.3, Depth B.G. 22.3, Nonresidential	248	---	0.0	0.630	0.579
Basement Wall - S2: Solid Concrete:12" Thickness, Normal Density, Furring: None, Wall Ht 18.7, Depth B.G. 18.7, Nonresidential	949	---	0.0	0.630	0.579
Basement Wall - W1: Solid Concrete:12" Thickness, Normal Density, Furring: None, Wall Ht 26.3, Depth B.G. 26.3, Nonresidential	217	---	20.0	0.046	0.579
Basement Wall - W2: Solid Concrete:12" Thickness, Normal Density, Furring: None, Wall Ht 14.2, Depth B.G. 14.2, Nonresidential	1150	---	0.0	0.630	0.579
Basement Wall - W3: Solid Concrete:12" Thickness, Normal Density, Furring: None, Wall Ht 18.6, Depth B.G. 18.6, Nonresidential	325	---	0.0	0.630	0.579
Floor Slab: Slab-On-Grade:Unheated, Nonresidential	338	---	---	---	---
Roof Type 1: Insulation Entirely Above Deck, Nonresidential Comments: BALLASTED ROOF 8"-13"	1169	---	20.0	0.048	0.048
Roof Type 2: Insulation Entirely Above Deck, Nonresidential Comments: BALLASTED ROOF 5"	73	---	10.0	0.093	0.048
Roof Type 3: Insulation Entirely Above Deck, Nonresidential Comments: WHITE ROOF	840	---	20.0	0.048	0.048
Roof Type 4: Other Roof, Nonresidential (b) Comments: GLAZED ROOF	287	---	---	0.300	0.027
Roof Type 6: Other Insulation Above Deck, Nonresidential (b) Comments: SIDEWALK VAULT	551	---	---	0.050	0.048
Roof Type 1: Insulation Entirely Above Deck, Residential Comments: BALLASTED ROOF 8"-13"	2726	---	20.0	0.048	0.048
Roof Type 5: Insulation Entirely Above Deck, Residential Comments: EQUIP CURBS	56	---	0.0	1.282	0.048

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) 'Other' components require supporting documentation for proposed U-factors.
(c) Fenestrations product performance must be certified in accordance with NFRC and requires supporting documentation.

Section 4: Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2010 New York Energy Conservation Construction Code (by application of 90.1 (2007) Standard) requirements in COM*check* Version 3.9.3 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title | Signature | Date

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Shaugat Shaikh
NYC Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08.06.14	2	DOB New Building Permit Set
05.10.13	1	DOB Zoning & Egress

Project:
8 West 70th

8 West 70th St,
New York, NY 10023

Sheet Title:
COMCHECK- ENVELOPE

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 1 : 14
Signature & Seal: REGISTERED ARCHITECT DANIEL G. DOVELL 14175 STATE OF NEW YORK

Sheet Number:
EN.101.00

NYC DOB Number: 121328919
Sheet: 80 of 81

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3/19/2014 2:27:00 PM

COM*check* Software Version 3.9.3

Interior Lighting and Power Compliance Certificate

2010 New York Energy Conservation Construction Code (by application of 90.1 (2007) Standard)

Section 1: Project Information

Project Type: **New Construction**
Project Title : 8 WEST 70TH STREET
Construction Site: Owner/Agent: Designer/Contractor:
8 West 70th Street
New York, NY 10023

Section 2: Interior Lighting and Power Calculation

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B x C)
Common Space Types:Conference/Meeting/Multipurpose	8409	1.3	10932
Common Space Types:Active Storage	949	0.8	759
Common Space Types:Electrical/Mechanical	4564	1.5	6846
Common Space Types:Stairs-Active	5568	0.6	3341
Common Space Types:Food Preparation	3472	1.2	4166
Common Space Types:Restrooms	2456	0.9	2210
Common Space Types:Lobby	2674	1.3	3476
Common Space Types:Corridor/Transition	3515	0.5	1758
Common Space Types:Classroom/Lecture/Training	1344	1.4	1882
Common Space Types:Office - Enclosed	1415	1.1	1557
Common Space Types:Office - Open Plan	2866	1.1	3153
		Total Allowed Watts =	40079

Section 3: Interior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Common Space Types:Conference/Meeting/Multipurpose (8409 sq.ft.)				
LED: F2: Recessed LED Downlight: Other:	1	192	14	2688
Track lighting: F9: Track: Wattage based on current limiting device capacity Exemption:Display Lighting in Galleries/Museums	0	0	600	Exempt
Track lighting: F9: Track: Wattage based on current limiting device capacity Exemption:Display Lighting in Galleries/Museums	0	0	600	Exempt
Track lighting: F9: Track: Wattage based on current limiting device capacity Exemption:Display Lighting in Galleries/Museums	0	0	600	Exempt
Track lighting: F9: Track: Wattage based on current limiting device capacity Exemption:Display Lighting in Galleries/Museums	0	0	600	Exempt
Track lighting: F9: Track: Wattage based on current limiting device capacity Exemption:Display Lighting in Galleries/Museums	0	0	600	Exempt
Track lighting: F9: Track: Wattage based on current limiting device capacity Exemption:Display Lighting in Galleries/Museums	0	0	600	Exempt
Track lighting: F9: Track: Wattage based on current limiting device capacity Exemption:Display Lighting in Galleries/Museums	0	0	600	Exempt
Track lighting: F9: Track: Wattage based on current limiting device capacity Exemption:Display Lighting in Galleries/Museums	0	0	600	Exempt
Track lighting: F9: Track: Wattage based on current limiting device capacity	0	0	600	Exempt

Exemption:Display Lighting in Galleries/Museums				
Track lighting: F9: Track: Wattage based on current limiting device capacity Exemption:Display Lighting in Galleries/Museums	0	0	600	Exempt
Track lighting: F9: Track: Wattage based on current limiting device capacity Exemption:Display Lighting in Galleries/Museums	0	0	600	Exempt
Linear Fluorescent: F14: Fluorescent Pendant: Other: Electronic:	1	20	16.2	324
LED: F1DA: Recessed LED Troffer: Other:	1	2	36	72
Common Space Types:Active Storage (949 sq.ft.)				
LED: F1: Recessed LED Troffer: Other:	1	1	37	37
Linear Fluorescent: F11: Chain Hung Fluorescent: 48" T8 32W: Premium efficiency:	2	7	55	385
LED: F1A: Recessed LED Troffer: Other:	1	2	36	72
LED: F2: Recessed LED Downlight: Other:	1	5	14	70
Common Space Types:Electrical/Mechanical (4564 sq.ft.)				
Linear Fluorescent: F11: Chain Hung Fluorescent: 48" T8 32W: Premium efficiency:	2	43	55	2365
Compact Fluorescent: F16: Wall Mounted Jelly Jar: Triple 4-pin 26W: Electronic:	1	2	26	52
Linear Fluorescent: F8: Chain Hung Fluorescent: 48" T8 32W: Premium efficiency:	2	2	55	110
Common Space Types:Stairs-Active (5568 sq.ft.)				
Linear Fluorescent: F4: Wall Mounted Fluorescent: 48" T8 32W: Premium efficiency:	2	57	55	3135
LED: F2: Recessed LED Downlight: Other:	1	13	14	182
Linear Fluorescent: F4A: Wall Mounted Fluorescent: 36" T8 25W: Premium efficiency:	2	26	42	1092
Common Space Types:Food Preparation (3472 sq.ft.)				
LED: F1A: Recessed LED Troffer: Other:	1	18	36	648
LED: F2: Recessed LED Downlight: Other:	1	19	14	266
LED: F5: Decorative LED Pendant: LED A Lamp 12W:	1	3	12	36
LED: F1: Recessed LED Troffer: Other:	1	1	37	37
Common Space Types:Restrooms (2456 sq.ft.)				
LED: F2: Recessed LED Downlight: Other:	1	30	14	420
Linear Fluorescent: F12: Recessed Fluorescent Wall Graze: Other: Electronic:	1	24	8	192
LED: F1: Recessed LED Troffer: Other:	1	8	37	296
Linear Fluorescent: F6: Lighted Mirror: Other: Electronic:	1	15	240	3600
Common Space Types:Lobby (2674 sq.ft.)				
LED: F2: Recessed LED Downlight: Other:	1	65	14	910
LED: F15: Recessed LED Wall Graze: Other:	1	26	11.8	306.8
Track lighting: F10: Track: Wattage based on 7 feet of track	0	0	210	210
Track lighting: F10: Track: Wattage based on 7 feet of track	0	0	210	210
Track lighting: F10: Track: Wattage based on 7 feet of track	0	0	210	210
Common Space Types:Corridor/Transition (3515 sq.ft.)				
LED: F2: Recessed LED Downlight: Other:	1	3	14	42
LED: F1: Recessed LED Troffer: Other:	1	32	37	1184
LED: F2A: Recessed LED Downlight: Other:	1	19	14	266
Linear Fluorescent 10: F4: Wall Mounted Fluorescent: 48" T8 32W: Premium efficiency:	2	8	55	440
Common Space Types:Classroom/Lecture/Training (1344 sq.ft.)				
LED: F1: Recessed LED Troffer: Other:	1	17	37	629
Common Space Types:Office - Enclosed (1415 sq.ft.)				
LED: F1: Recessed LED Troffer: Other:	1	1	37	37
Linear Fluorescent: F7: Wall Mount Fluorescent: 46" T5 28W: Electronic:	3	20	97	1940
Common Space Types:Office - Open Plan (2866 sq.ft.)				
LED: F1: Recessed LED Troffer: Other:	1	41	37	1517
			Total Proposed Watts =	23981

Interior Lighting PASSES: Design 40% better than code.

Section 4: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2010 New York Energy Conservation Construction Code (by application of 90.1 (2007) Standard) requirements in COM*check* Version 3.9.3 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title Signature Date

3/19/2014 2:27:03 PM

Section 5: Post Construction Compliance Statement

Record Drawings and Operating and Maintenance Manuals:

❑ 1. Construction documents with record drawings and operating and maintenance manuals provided to the owner.

Lighting Designer or Contractor Name Signature Date

COM*check* Software Version 3.9.3

Exterior Lighting Compliance Certificate

2010 New York Energy Conservation Construction Code (by application of 90.1 (2007) Standard)

Section 1: Project Information

Project Type: **New Construction**
Project Title : 8 WEST 70TH STREET

Construction Site: Owner/Agent: Designer/Contractor:
8 West 70th Street
New York, NY 10023

Section 2: Exterior Lighting Area/Surface Power Calculation

A Exterior Area/Surface	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B x C)	F Proposed Watts
Special feature area	1323 ft2	0.2	Yes	265	140
Other entry/exit	7 ft of door width	20	Yes	140	50
Main entry/exit	26 ft of door width	30	Yes	780	208
Attached canopy	9 ft2	1.25	Yes	11	72
Illuminated length of wall or surface	112 ft	5	No	560	504
			Total Tradable Watts* =	1196	470
			Total Allowed Watts =	1756	
			Total Allowed Supplemental Watts** =	88	

* Wattage tradeoffs are only allowed between tradable areas/surfaces.
** A supplemental allowance equal to 5% of total allowed wattage may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Section 3: Exterior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Special feature area (1323 ft2): Tradable Wattage				
Compact Fluorescent: F17: In wall steplight: Triple 4-pin 26W: Electronic:	1	5	28	140
Other entry/exit (7 ft of door width): Tradable Wattage				
LED: F18: LED Wall Sconce: Other:	1	2	25	50
Main entry/exit (26 ft of door width): Tradable Wattage				
Linear Fluorescent: F19: Surface Mnt Linear Fluorescent: Other: Electronic:	1	26	8	208
Attached canopy (9 ft2): Tradable Wattage				
Linear Fluorescent: F19: Surface Mnt Linear Fluorescent: Other: Electronic:	1	9	8	72
Illuminated length of wall or surface (112 ft): Non-tradable Wattage				
Compact Fluorescent: F13: Wall Mount CFL: Triple 4-pin 26W: Electronic:	2	9	56	504
			Total Tradable Proposed Watts =	470

Section 4: Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2010 New York

Energy Conservation Construction Code (by application of 90.1 (2007) Standard) requirements in COM*check* Version 3.9.3 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title Signature Date

DEPT OF BLDGS 121328919 Job Number
ES540082579 Scan Code

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Shauqat Shaikh
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APPROVED
Date: 05/04/2015
NYC Development Hub

NOT FOR CONSTRUCTION

Date:	No.:	Description:
08.06.14		DOB New Building Permit

Project:
8 West 70th

8 West 70th St, New York, NY 10023

Sheet Title:
COMCHECK- LIGHTING

Project Number: 12639
Drawn By: Author
Checked By: Checker
Scale: 12" = 1'-0"
Signature & Seal: REGISTERED ARCHITECT SAMUEL G WHITE NO. 14775 STATE OF NEW YORK

Sheet Number:
EN.102.00

Sheet: 81 *of* 81

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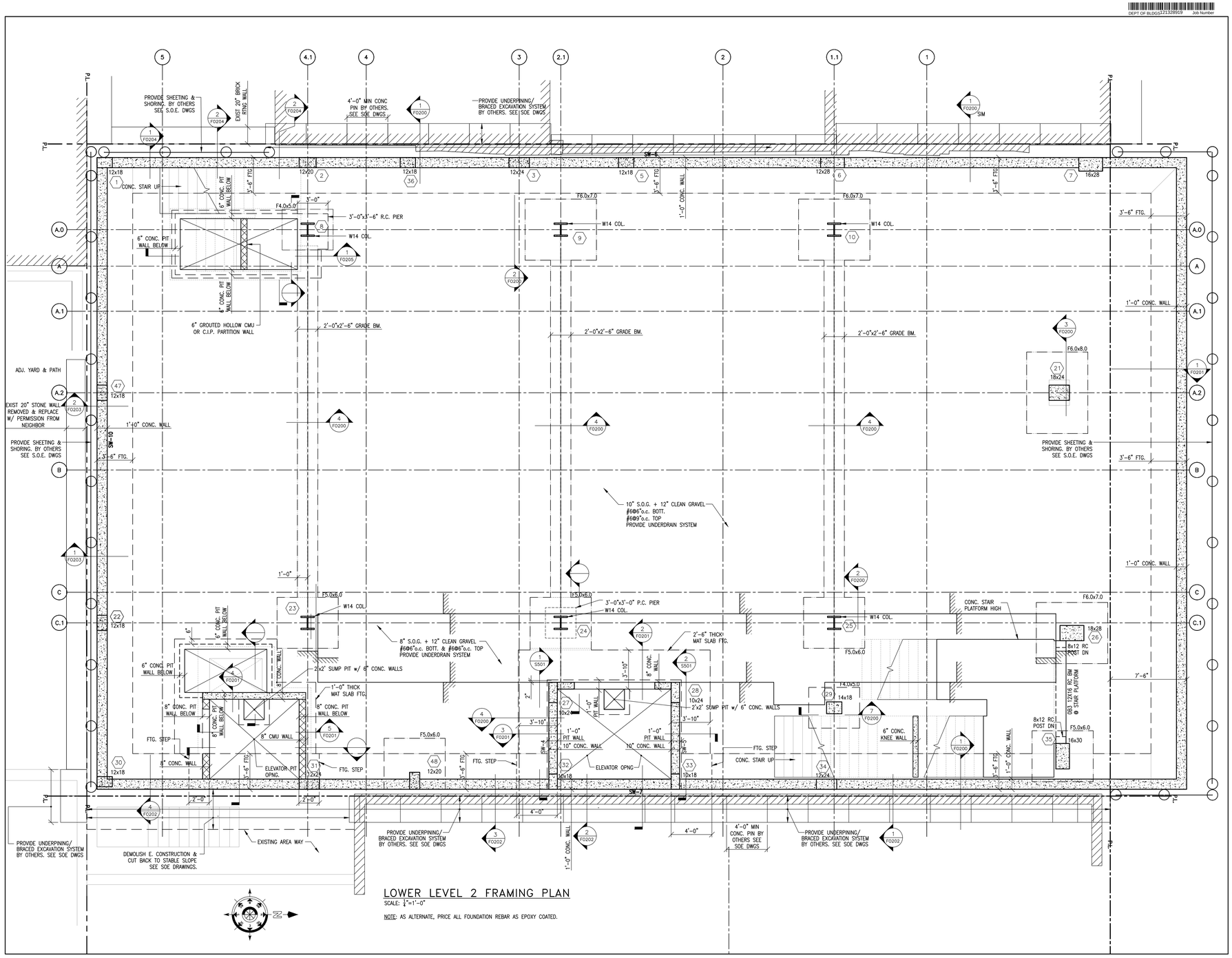
DEPT OF BLDGS 121328919 Job Number

ES950747929 Scan Code



LOWER LEVEL 2 FRAMING PLAN

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

NOTE: AS ALTERNATE, PRICE ALL FOUNDATION REBAR AS EPOXY COATED.

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
03.03.14		Issue For DOB
01.31.14		Guaranteed Max Price
01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:
LOWER LEVEL 2 FRAMING PLAN

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS SHOWN
Signature & Seal:
STATE OF NEW YORK · CHRIS ANASTOS · No. 050969 · LICENSED PROFESSIONAL ENGINEER

Sheet Number:
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Sheet: 01 of 59

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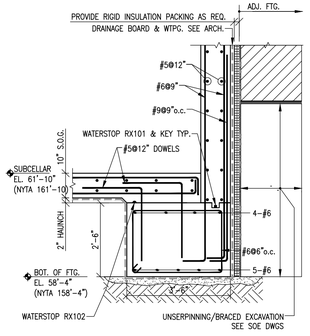

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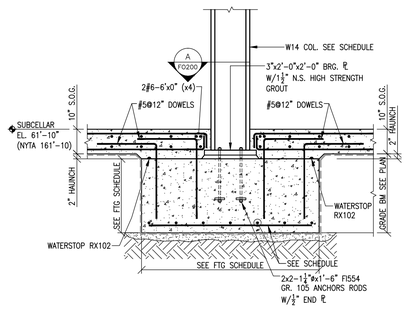

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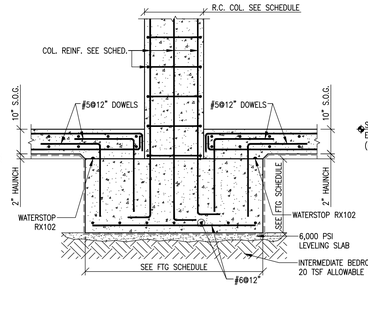

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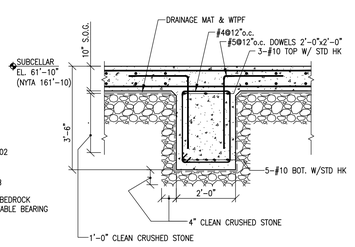

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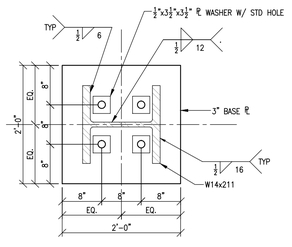

TYP. SECTION
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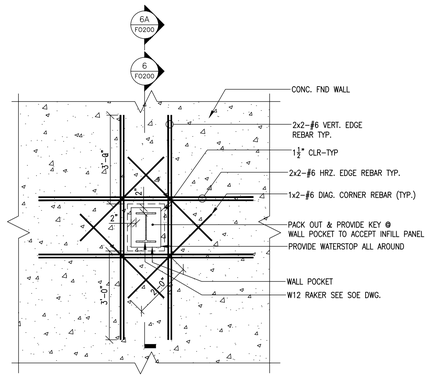
A F0200

FOOTING SCHEDULE (20 TSF ALLOW BRG.)					
MARK	SIZE	DEPTH	REINF. LONG WAY	REINF. SHORT WAY	REMARKS
F4.0x5.0	4'-0x5'-0"	2'-6"	#7@8"o.c.	#7@8"o.c.	PROV. STD. ACI 90° HK
F5.0x6.0	5'-0"x6'-0"	2'-6"	#7@6"o.c.	#7@6"o.c.	PROV. STD. ACI 90° HK
F6.0x7.0	6'-0"x7'-0"	3'-0"	#7@5"o.c.	#7@5"o.c.	PROV. STD. ACI 90° HK
F6.0x8.0	6'-0"x8'-0"	3'-0"	#7@5"o.c.	#7@5"o.c.	PROV. STD. ACI 90° HK



NOTE: COORDINATE W/SOE DWGS FOR RAKER LAYOUT

TYP. REINFORCEMENT @ TEMPORARY RAKER PENETRATION FOR FND WALL
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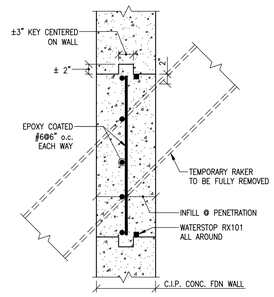
5 F0200



NOTE: COORDINATE W/SOE DWGS FOR RAKER LAYOUT

TYP. FULL WALL INFILL @ RAKER POCKET
SCALE: 1"=1'-0"
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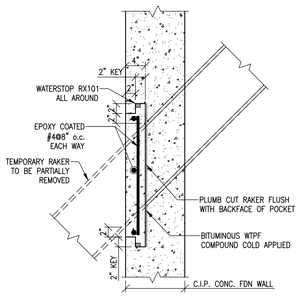

NOTE: COORDINATE W/SOE DWGS FOR RAKER LAYOUT

TYP PARTIAL WALL INFILL @ RAKER POCKET
SCALE: 1"=1'-0"
6A F0200

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Shauqat Shaikh
NYC Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
03.03.14		Issue For DOB
01.31.14		Guaranteed Max Price
01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:
FOUNDATION SECTIONS

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED

Signature & Seal:
STATE OF NEW YORK — CHRIS ANGELO — No. 065080 — LICENSED PROFESSIONAL ENGINEER

Sheet Number:
FO-200.00

Sheet: 15 of 59

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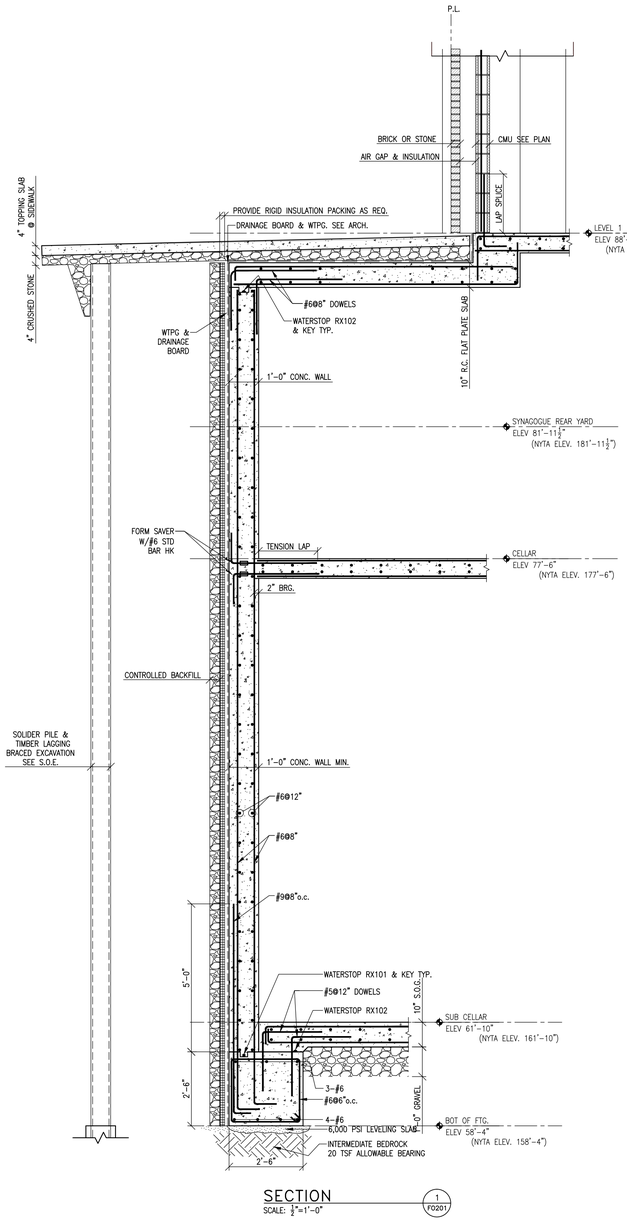

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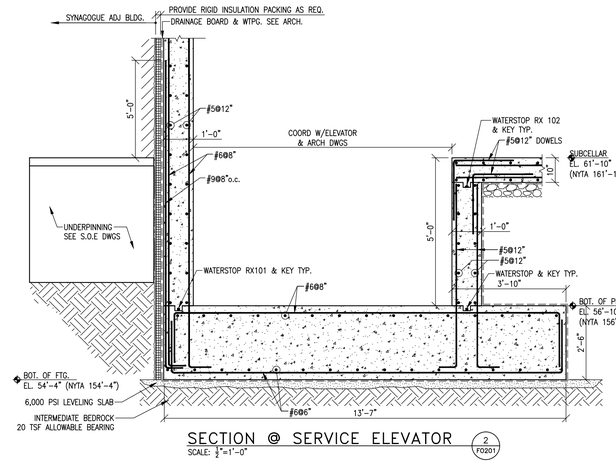

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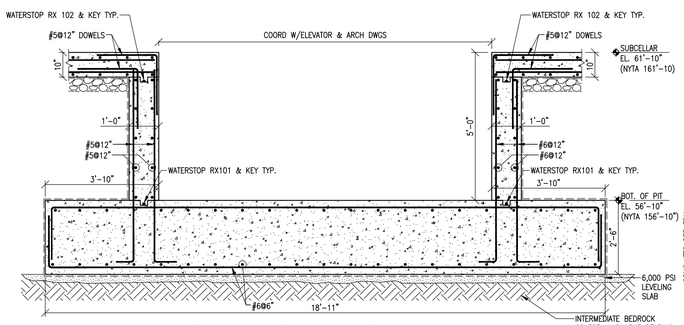

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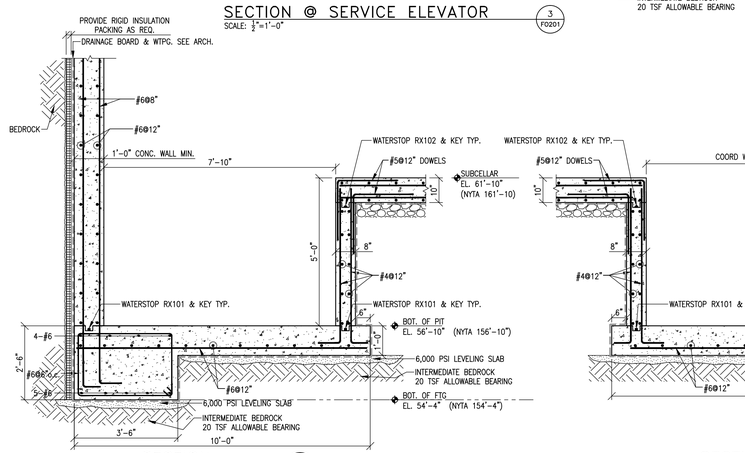

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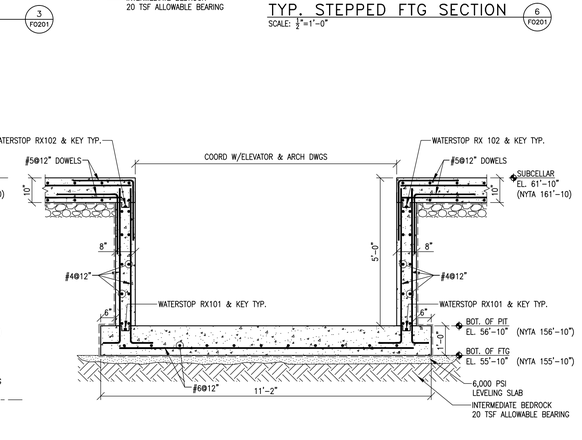

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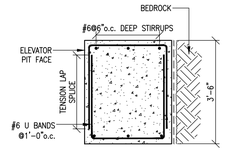

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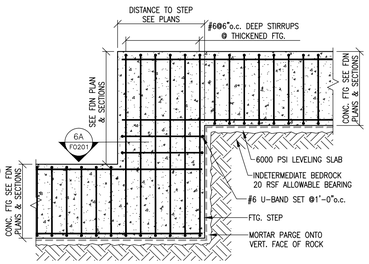

TYP. STEPPED FTG SECTION
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6 FO201

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Date: 05/04/2015
NYC Development Hub

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01.31.14		Guaranteed Max Price
01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
8 West 70th St

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New York, NY 10023

Sheet Title:
FOUNDATION SECTIONS AT NORTH WALL

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal:
STATE OF NEW YORK ANDREW CHRISTOPHER
LICENSED PROFESSIONAL ENGINEER No. 065099

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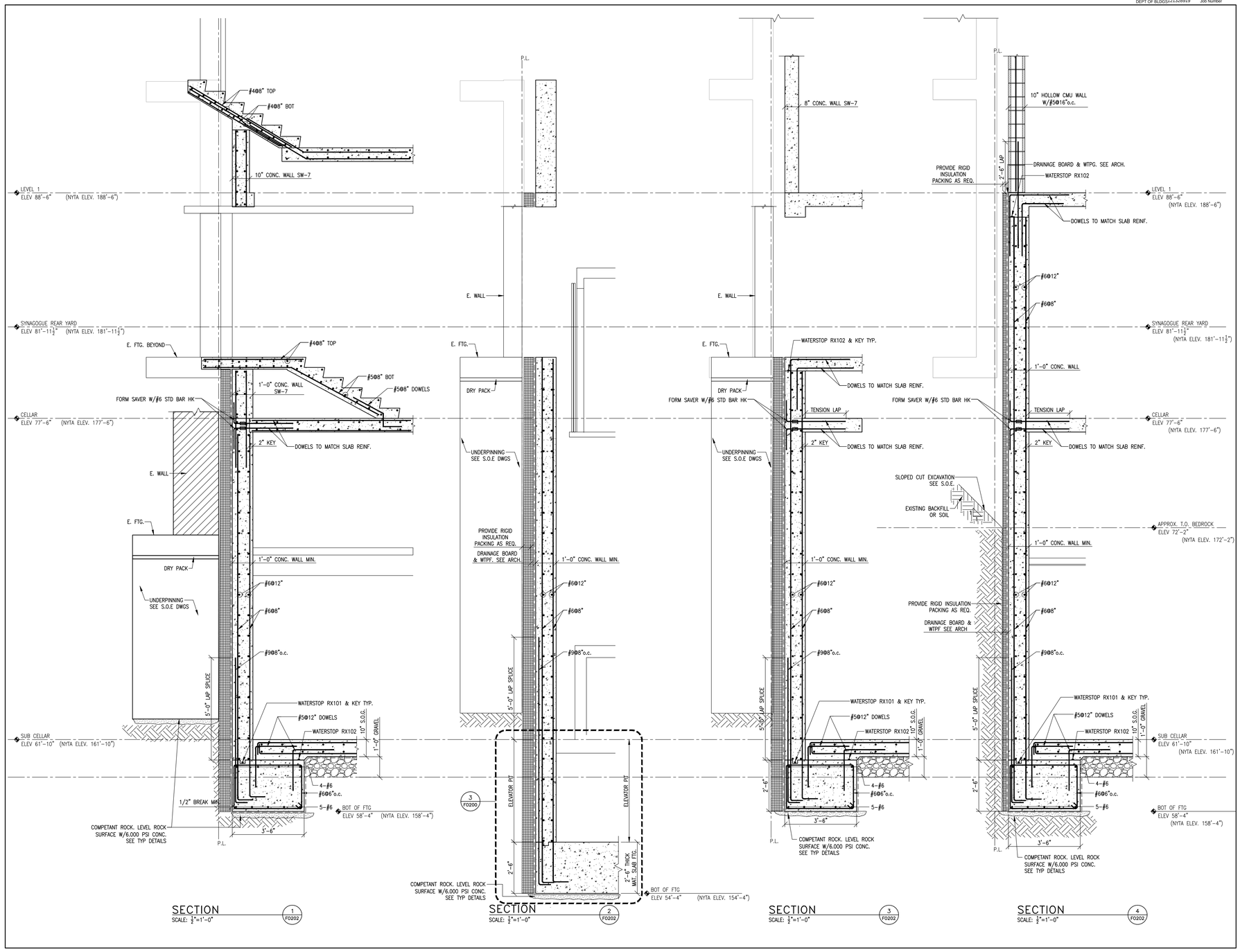

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01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
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Sheet Title:
FOUNDATION SECTIONS AT EAST WALL

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED

Signature & Seal:
STATE OF NEW YORK
ANTHONY CHIN
No. 082089
REGISTERED PROFESSIONAL ENGINEER

Sheet Number:
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Sheet: 17 of 59

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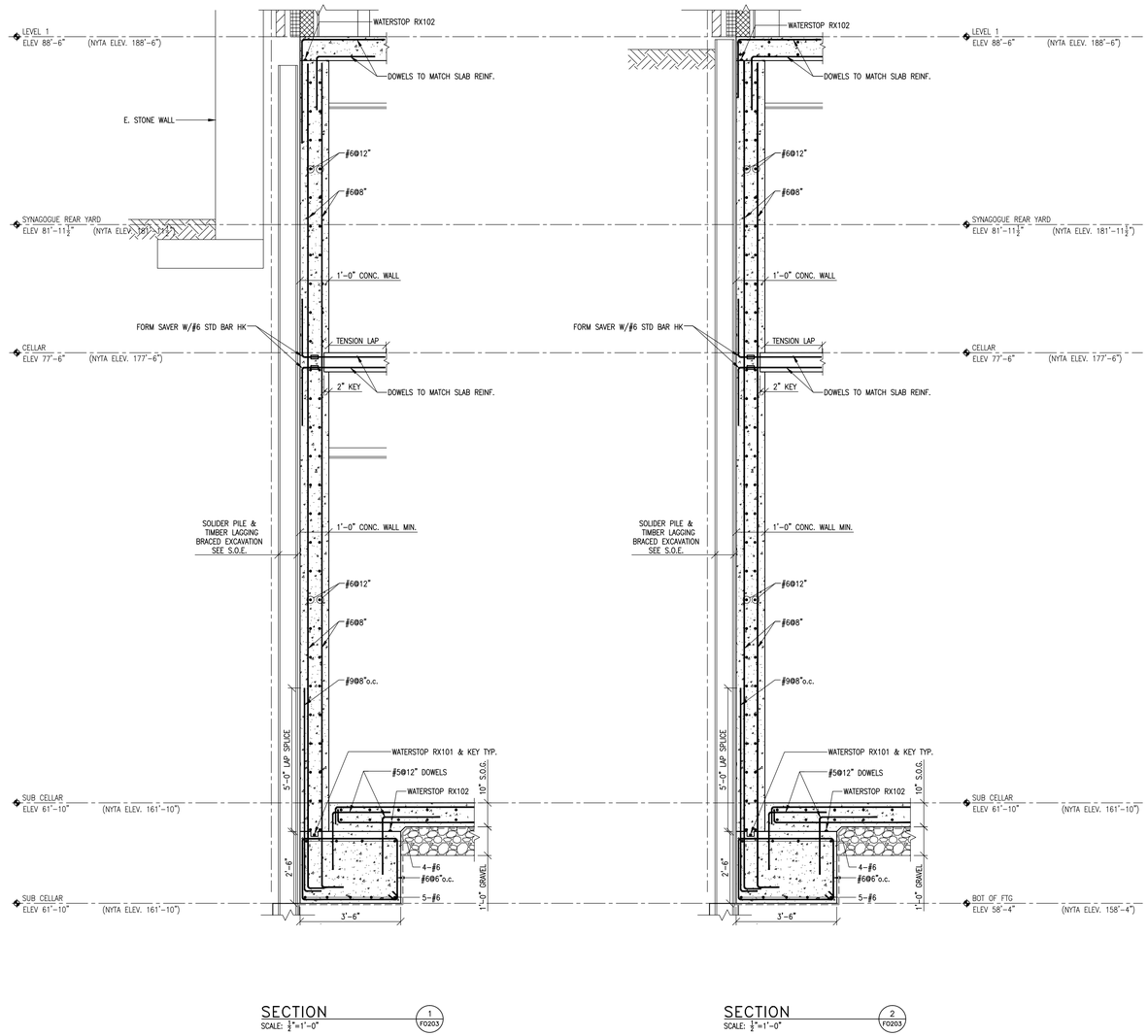

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SECTION 2 F0203
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DEPT OF BLDGS 121328919 Job Number

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07.01.13		80% CD Pricing Set

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Sheet Title:
FOUNDATION SECTIONS AT SOUTH WALL

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
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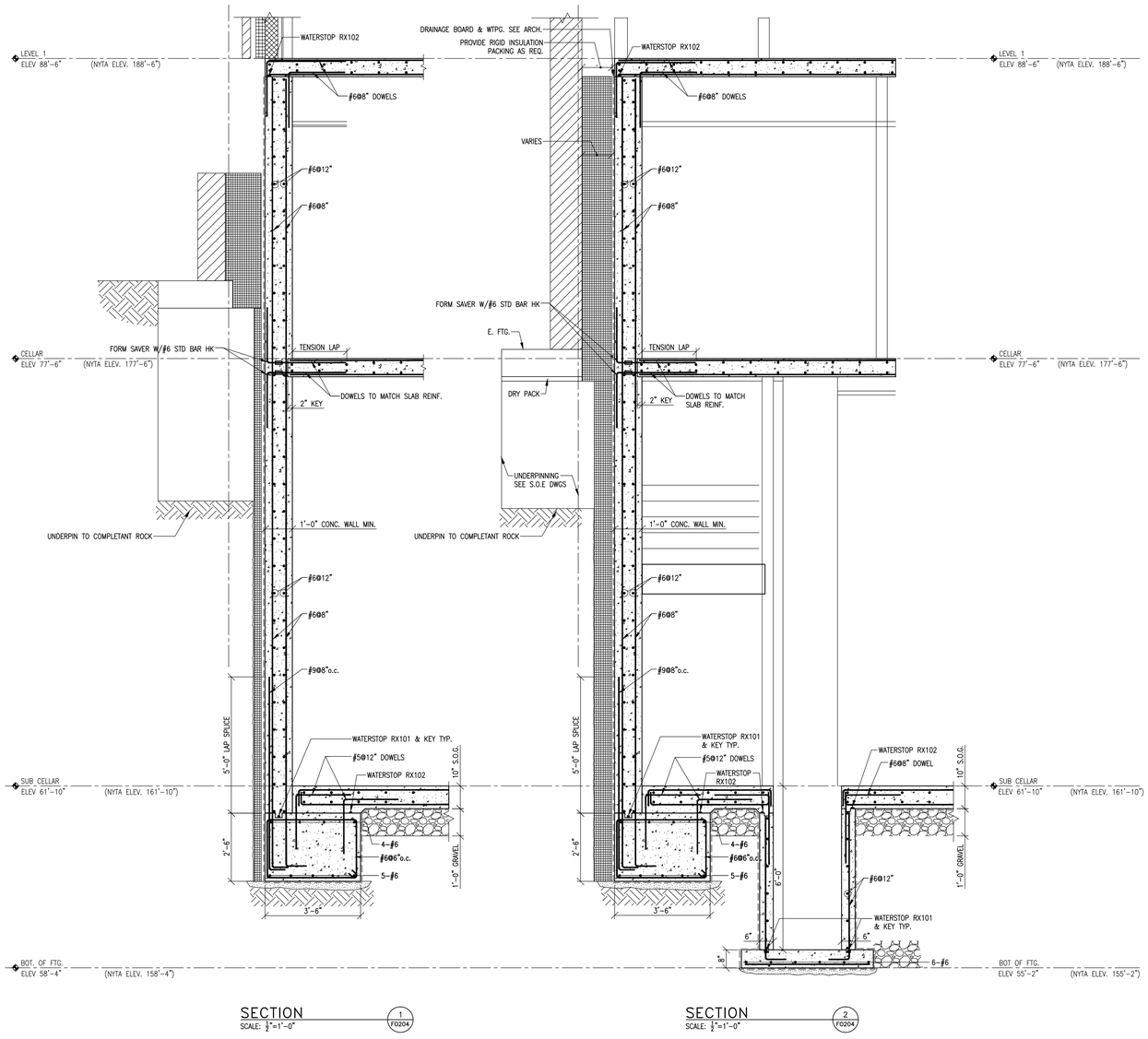

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SECTION 2 F0204
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08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
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Sheet Title:
FOUNDATION SECTIONS AT WEST WALL

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
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Sheet: 19 of 59

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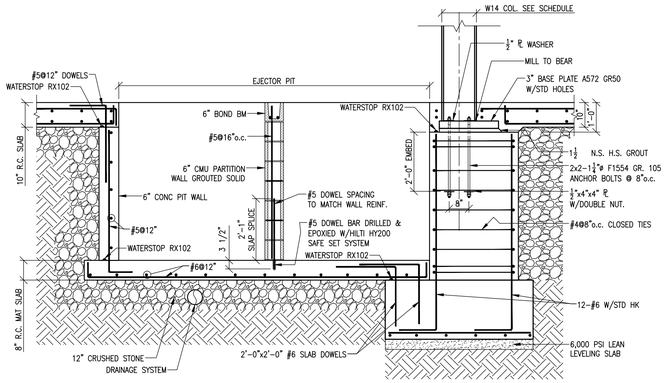

SECTION
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Date: 05/04/2015
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Date:	No.:	Description:
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08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
8 West 70th St

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Sheet Title:
FOUNDATION SECTIONS

Project Number:
12639 12666 AEA

Drawn By:
CAD AEA

Checked By:
AC

Scale:
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CHRIS ANASTASI
No. 050369
LICENSED PROFESSIONAL ENGINEER

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19 of 59

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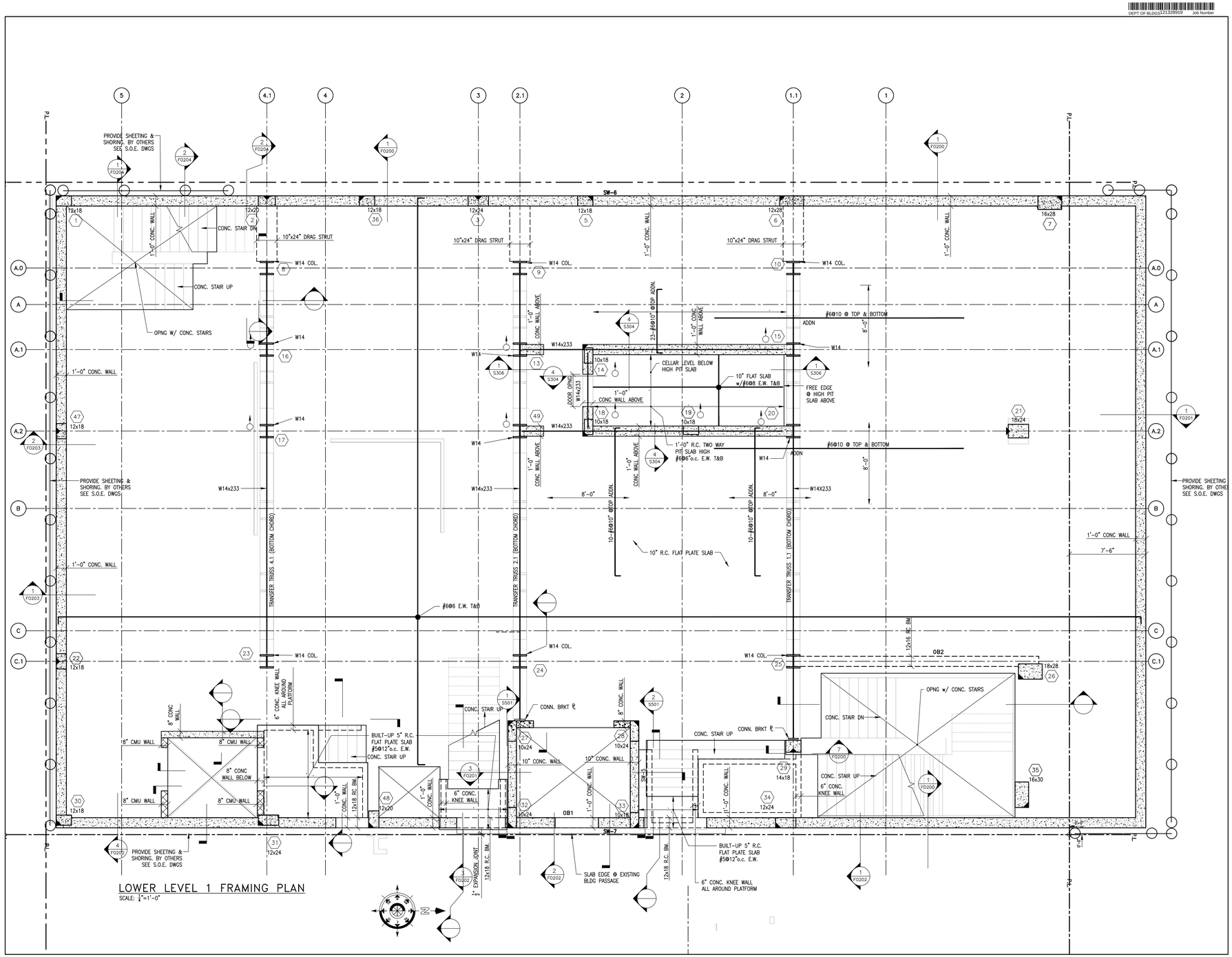

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07.01.13		80% CD Pricing Set

Project:
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Sheet Title:
LOWER LEVEL 1 FRAMING PLAN

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
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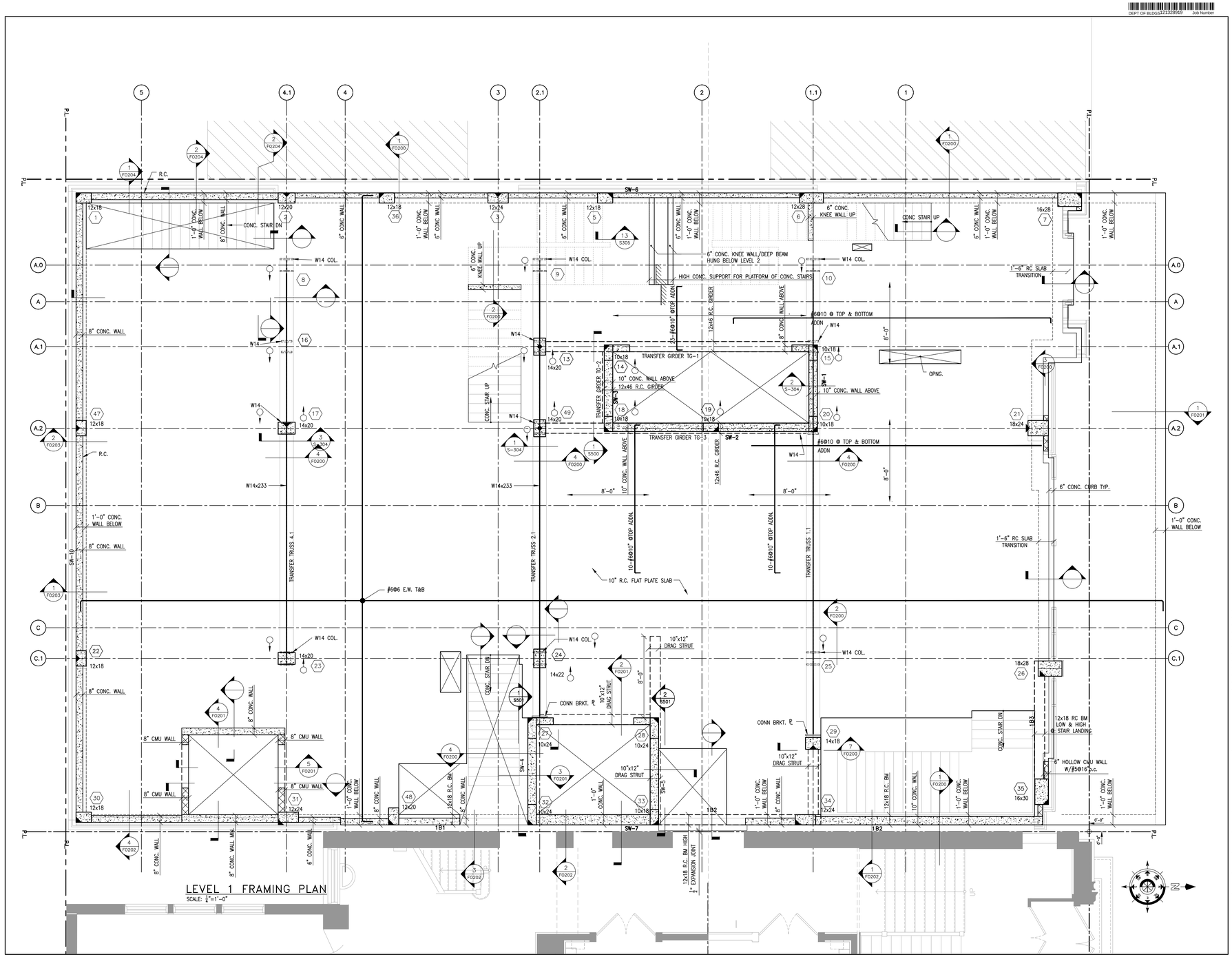

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07.01.13		80% CD Pricing Set

Project:
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Sheet Title:
LEVEL 1 FRAMING PLAN

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
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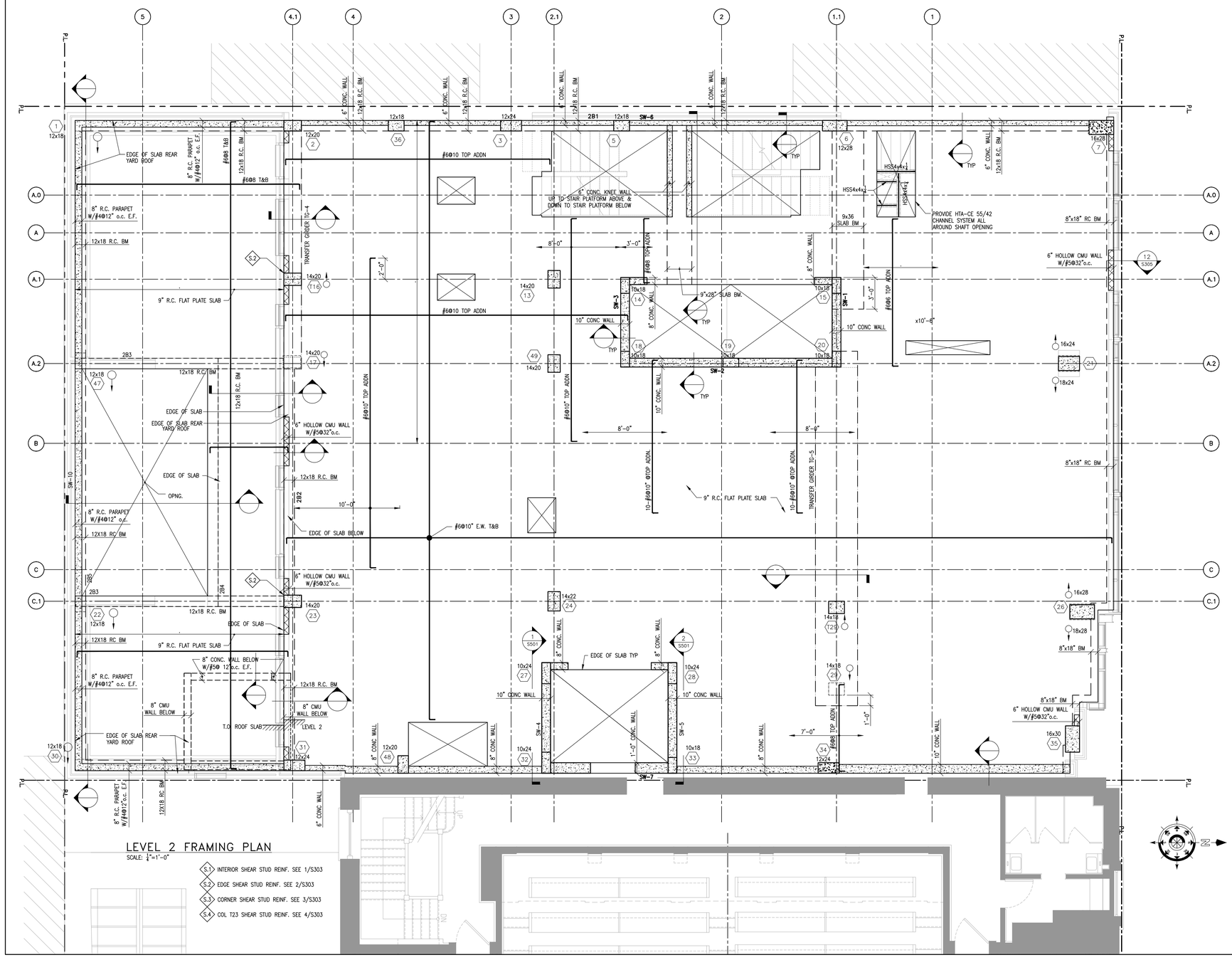

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Date:	No.:	Description:
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07.01.13		80% CD Pricing Set

Project:
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Sheet Title:
LEVEL 2
FRAMING PLAN

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
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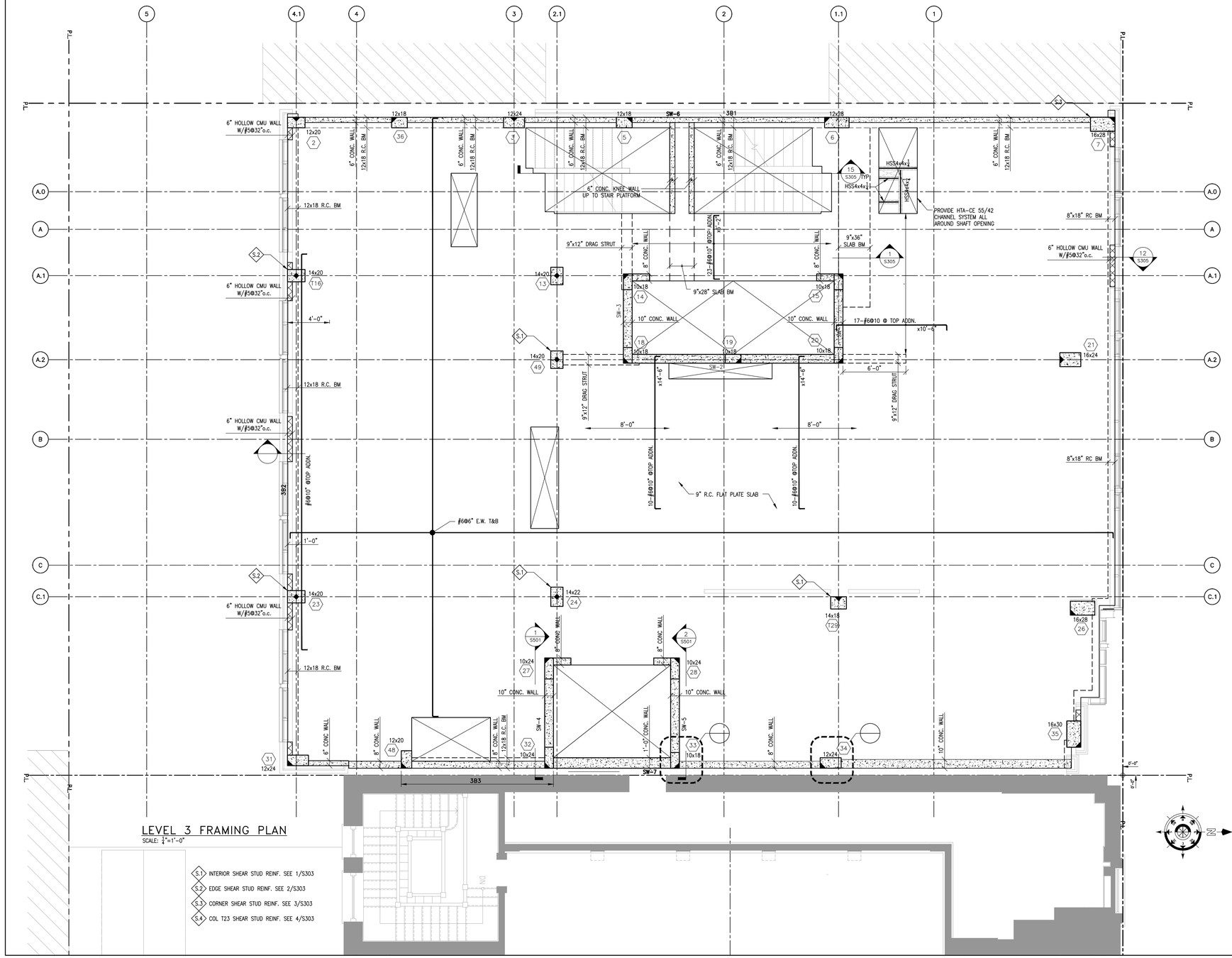

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07.01.13		80% CD Pricing Set

Project:
8 West 70th St

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Sheet Title:
LEVEL 3 FRAMING PLAN

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal:
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CHRIS ANASTOU
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LICENSED PROFESSIONAL ENGINEER

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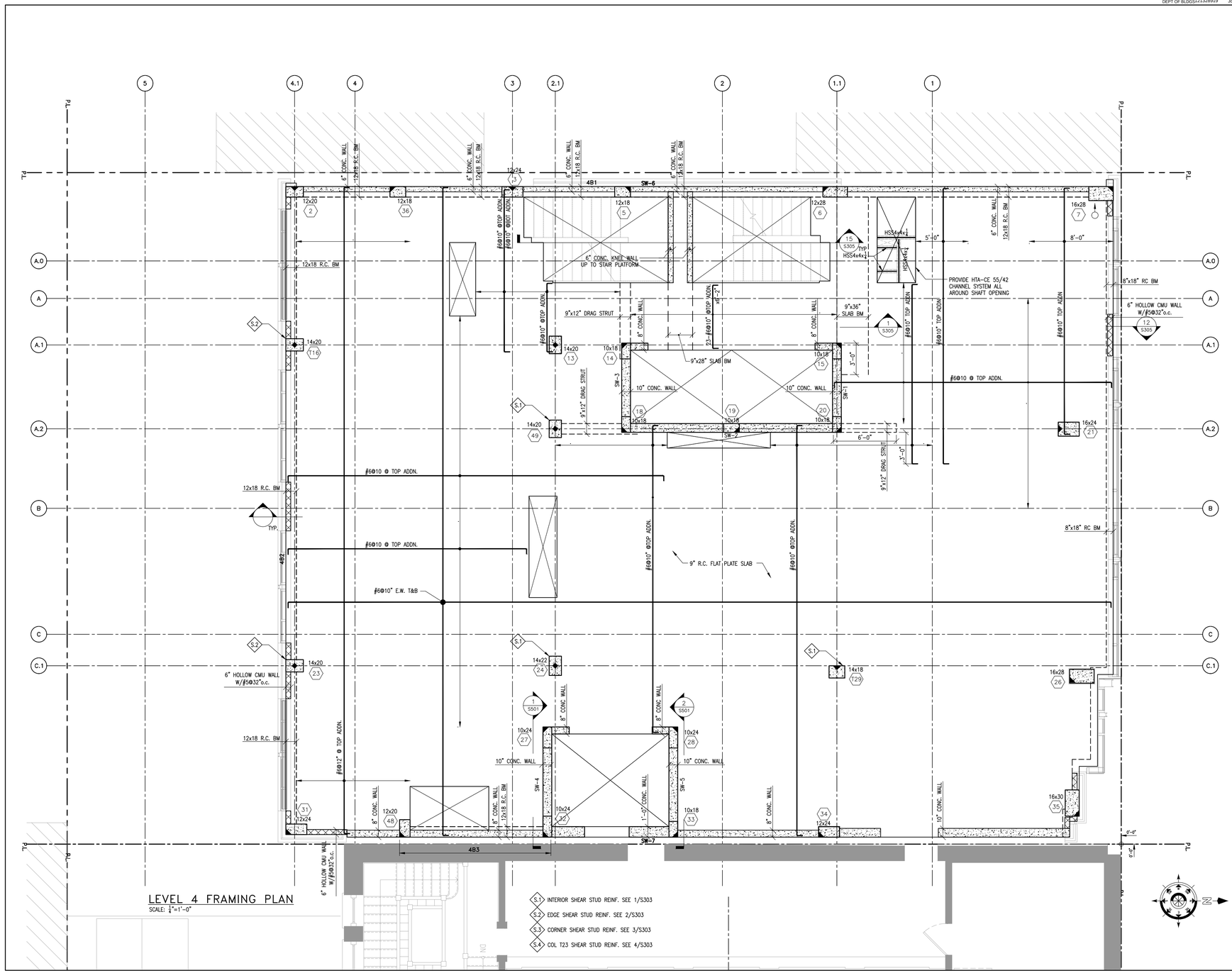

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Date: 05/04/2015
NYC Development Hub

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01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
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Sheet Title:
LEVEL 4 FRAMING PLAN

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
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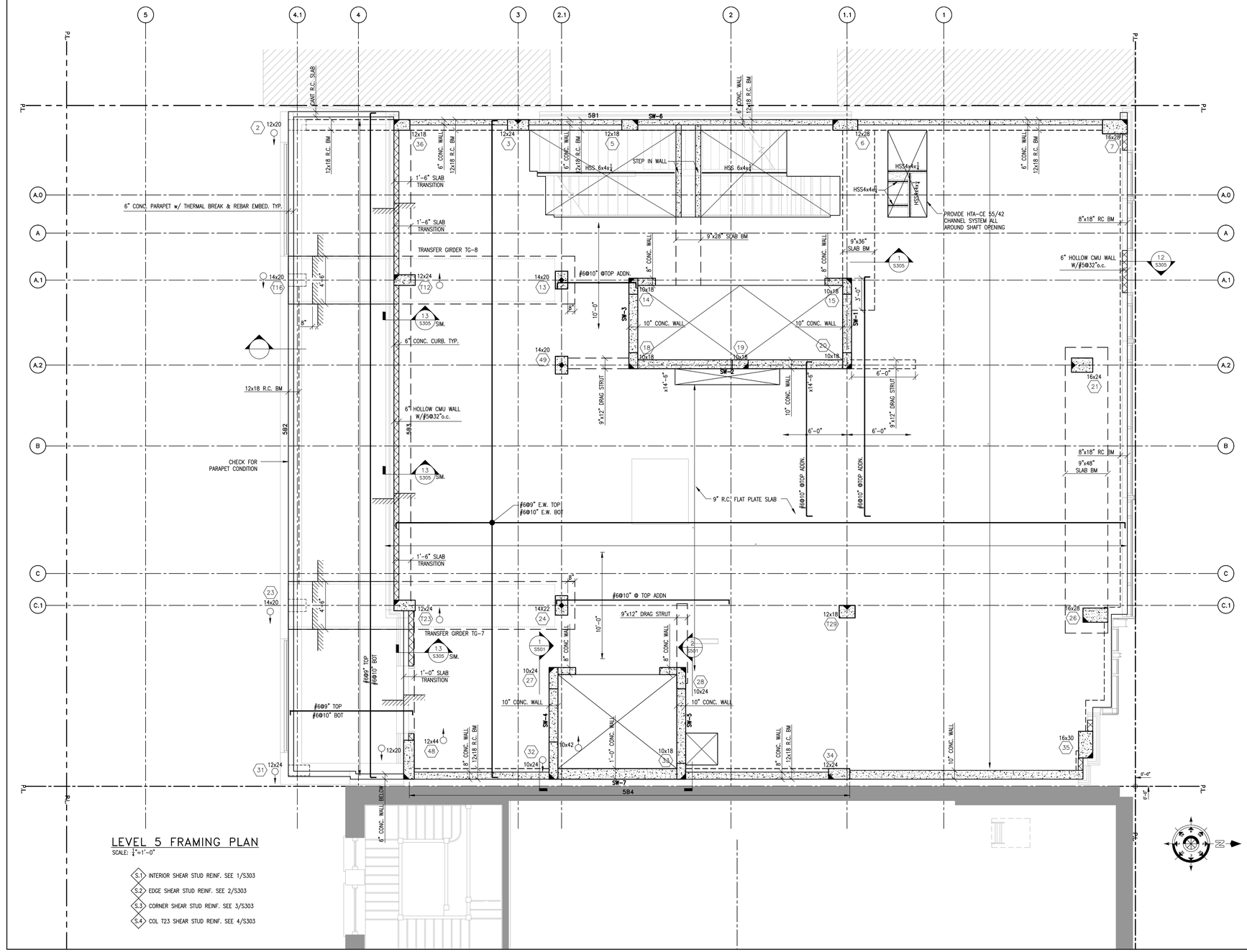

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01.06.14		Progress Set
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LEVEL 5 FRAMING PLAN

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal:
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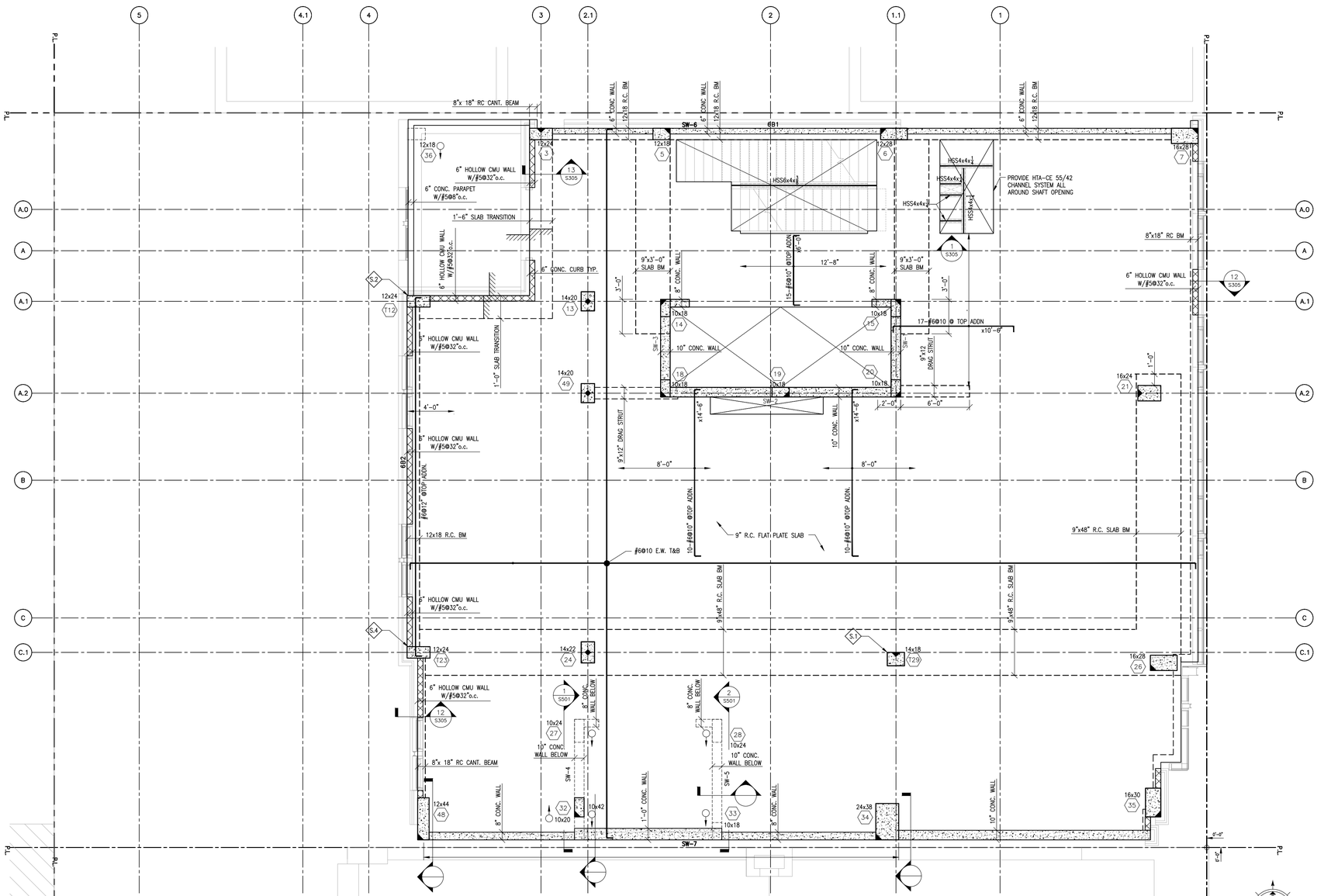

LEVEL 6 FRAMING PLAN
SCALE: 1/4"=1'-0"

S.1 INTERIOR SHEAR STUD REINF. SEE 1/S303
S.2 EDGE SHEAR STUD REINF. SEE 2/S303
S.3 CORNER SHEAR STUD REINF. SEE 3/S303
S.4 COL T23 SHEAR STUD REINF. SEE 4/S303

DEPT OF BLDGS 121328919 Job Number
ES431733740 Scan Code

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01.10.14		Pricing Set
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08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
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Sheet Title:
LEVEL 6 FRAMING PLAN

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal:
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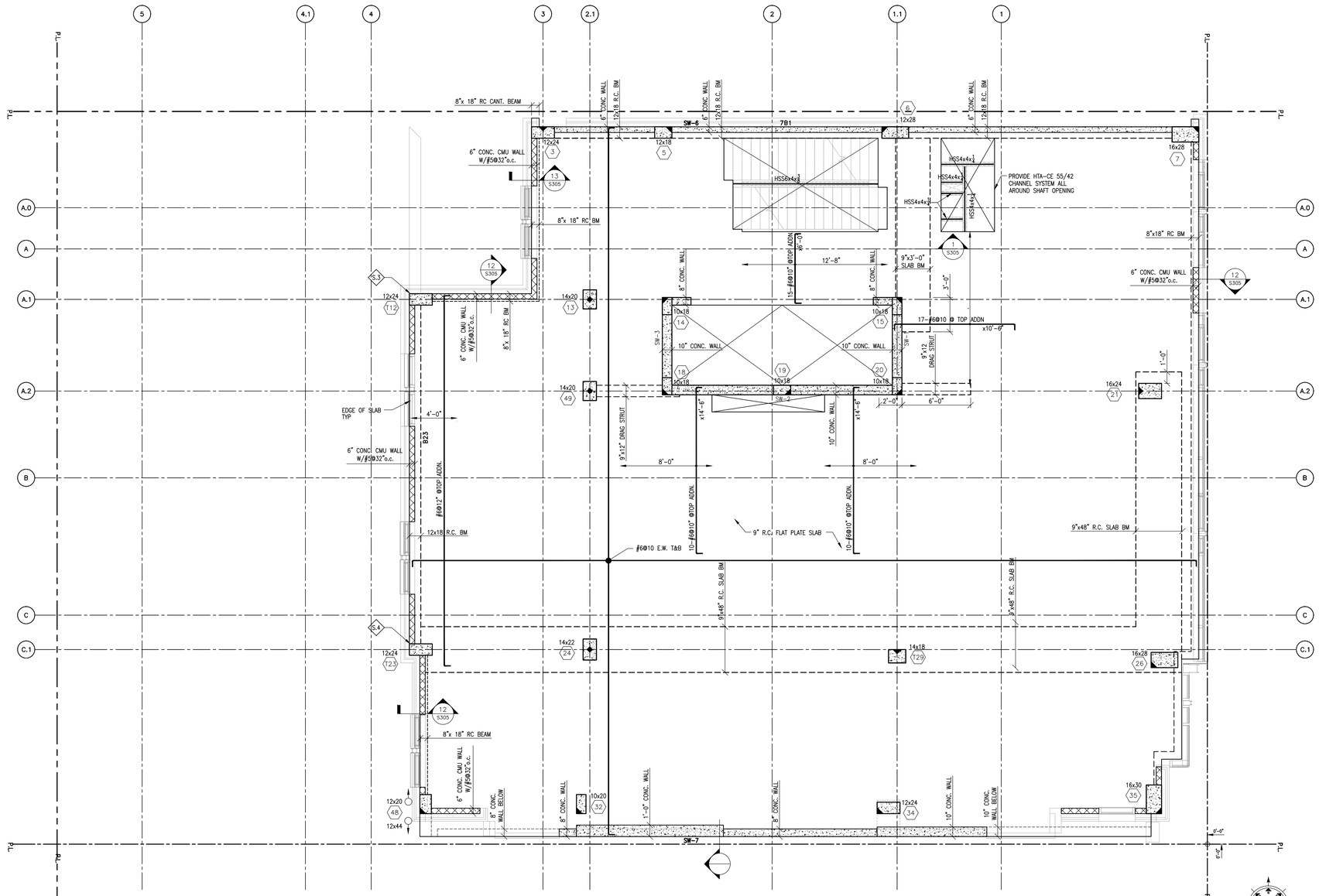

LEVEL 7 FRAMING PLAN
SCALE: 1/8"=1'-0"

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LEVEL 7
FRAMING PLAN

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal: STATE OF NEW YORK, ANDREW CHAN, 065269, LICENSED PROFESSIONAL ENGINEER

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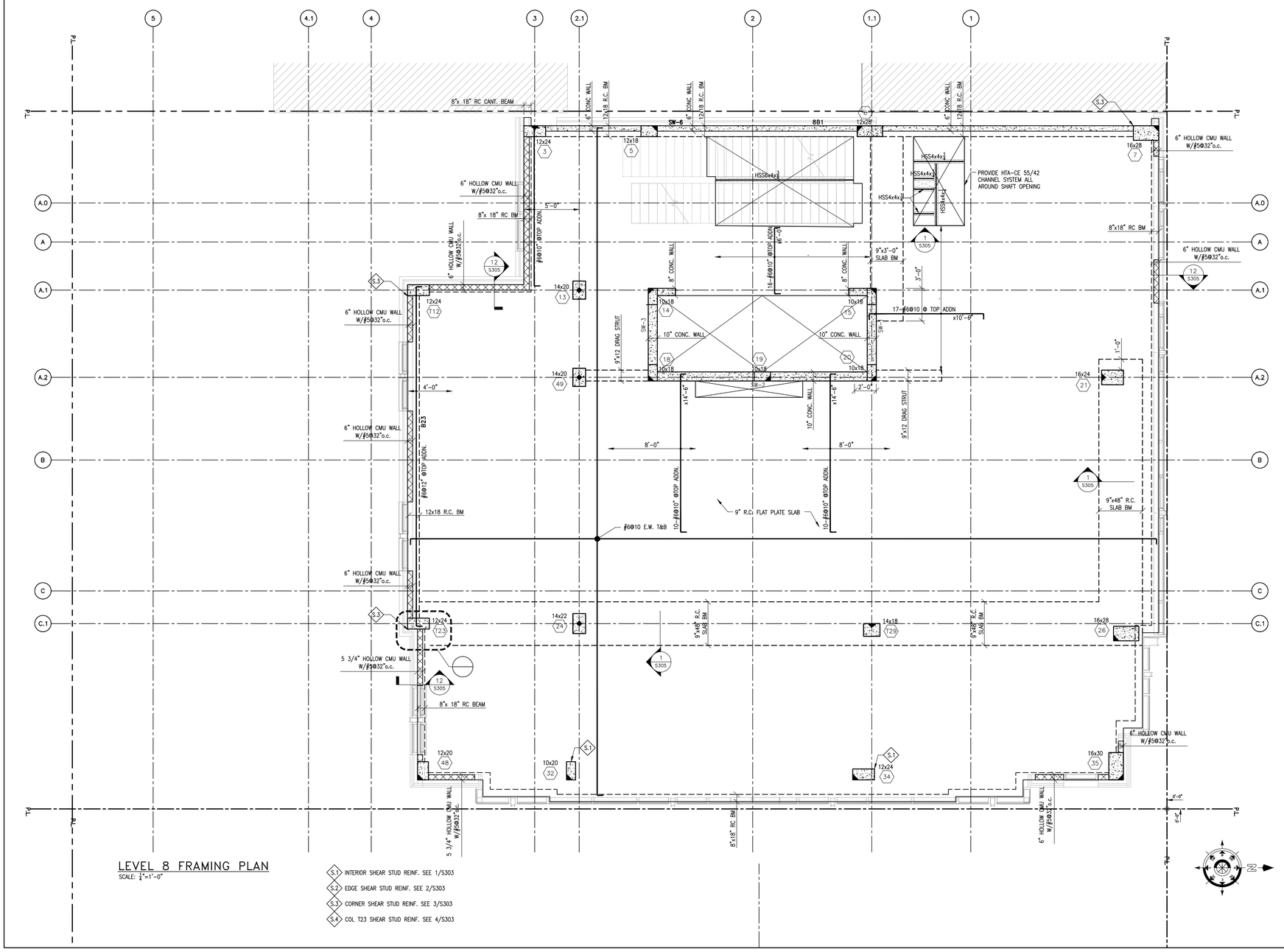

LEVEL 8 FRAMING PLAN
SCALE: 1/4"=1'-0"

S.1 INTERIOR SHEAR STUD REINF. SEE 1/S303
S.2 EDGE SHEAR STUD REINF. SEE 2/S303
S.3 CORNER SHEAR STUD REINF. SEE 3/S303
S.4 COL T23 SHEAR STUD REINF. SEE 4/S303

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LEVEL 8
FRAMING PLAN

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED

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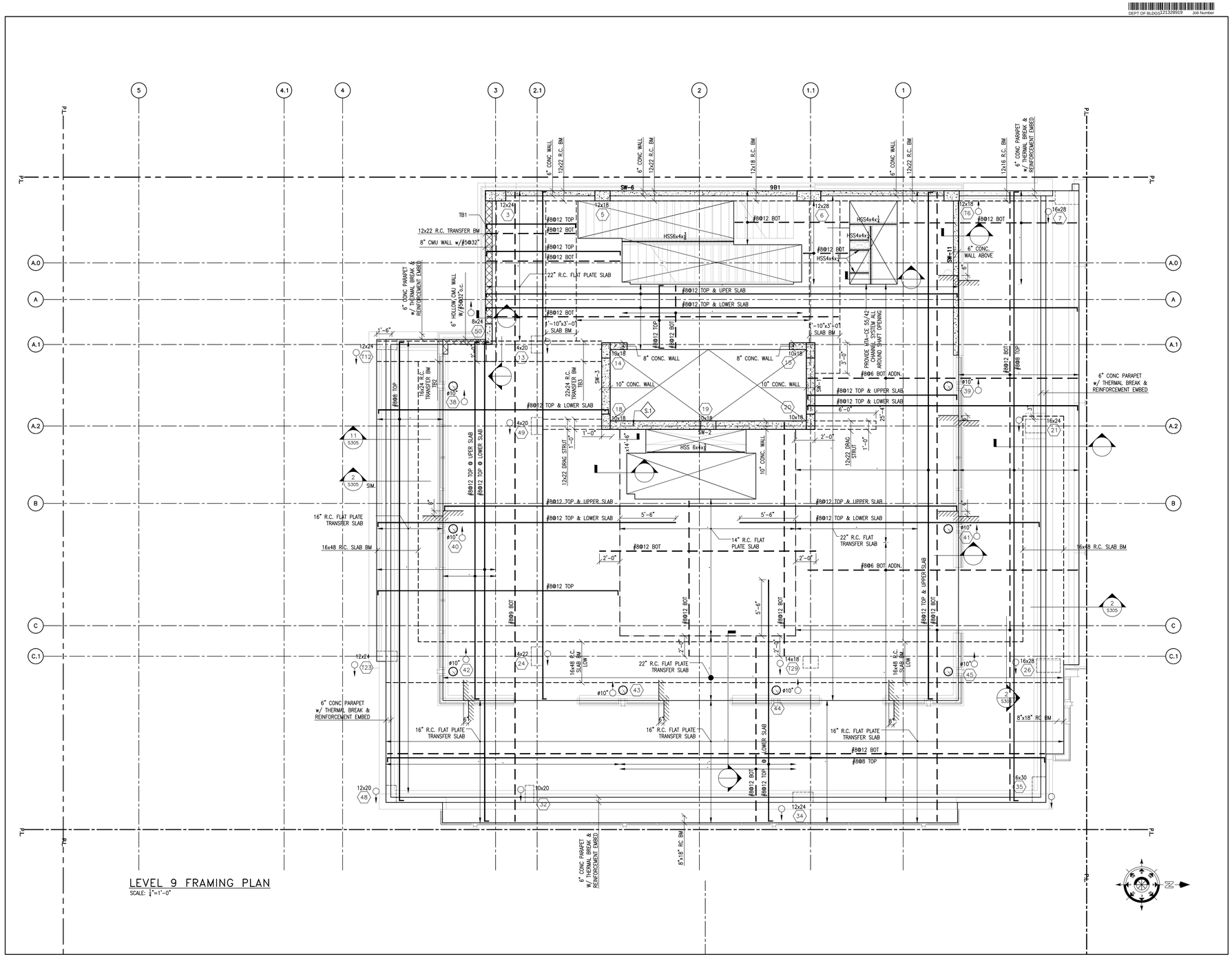

LEVEL 9 FRAMING PLAN
SCALE: 1/4"=1'-0"

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LEVEL 9 (PENTHOUSE) FRAMING PLAN

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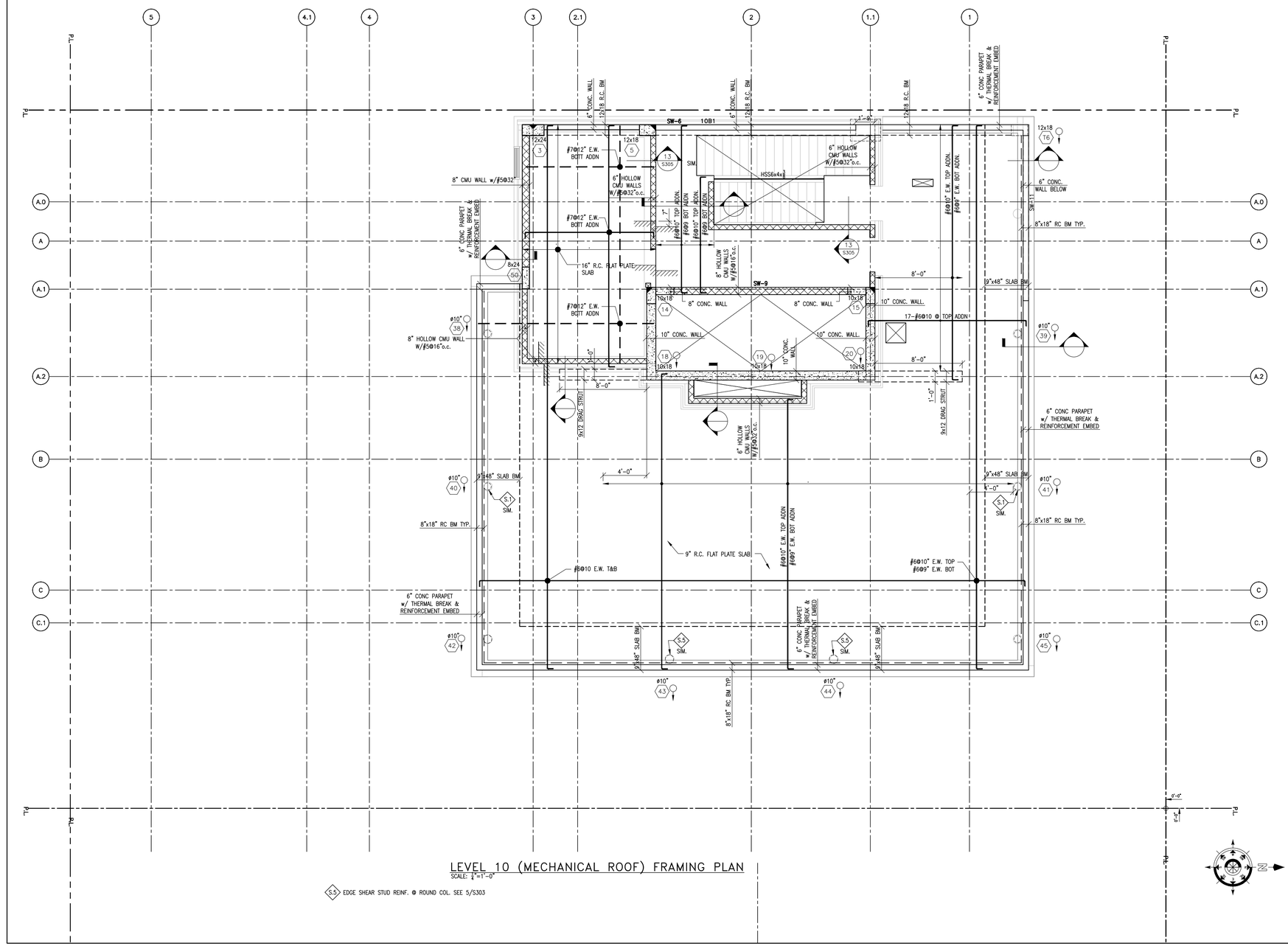

LEVEL 10 (MECHANICAL ROOF) FRAMING PLAN
SCALE: 1/4"=1'-0"

5.5 EDGE SHEAR STUD REINF. @ ROUND COL. SEE 5/S303

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LEVEL 10 (MECHANICAL ROOF) FRAMING PLAN

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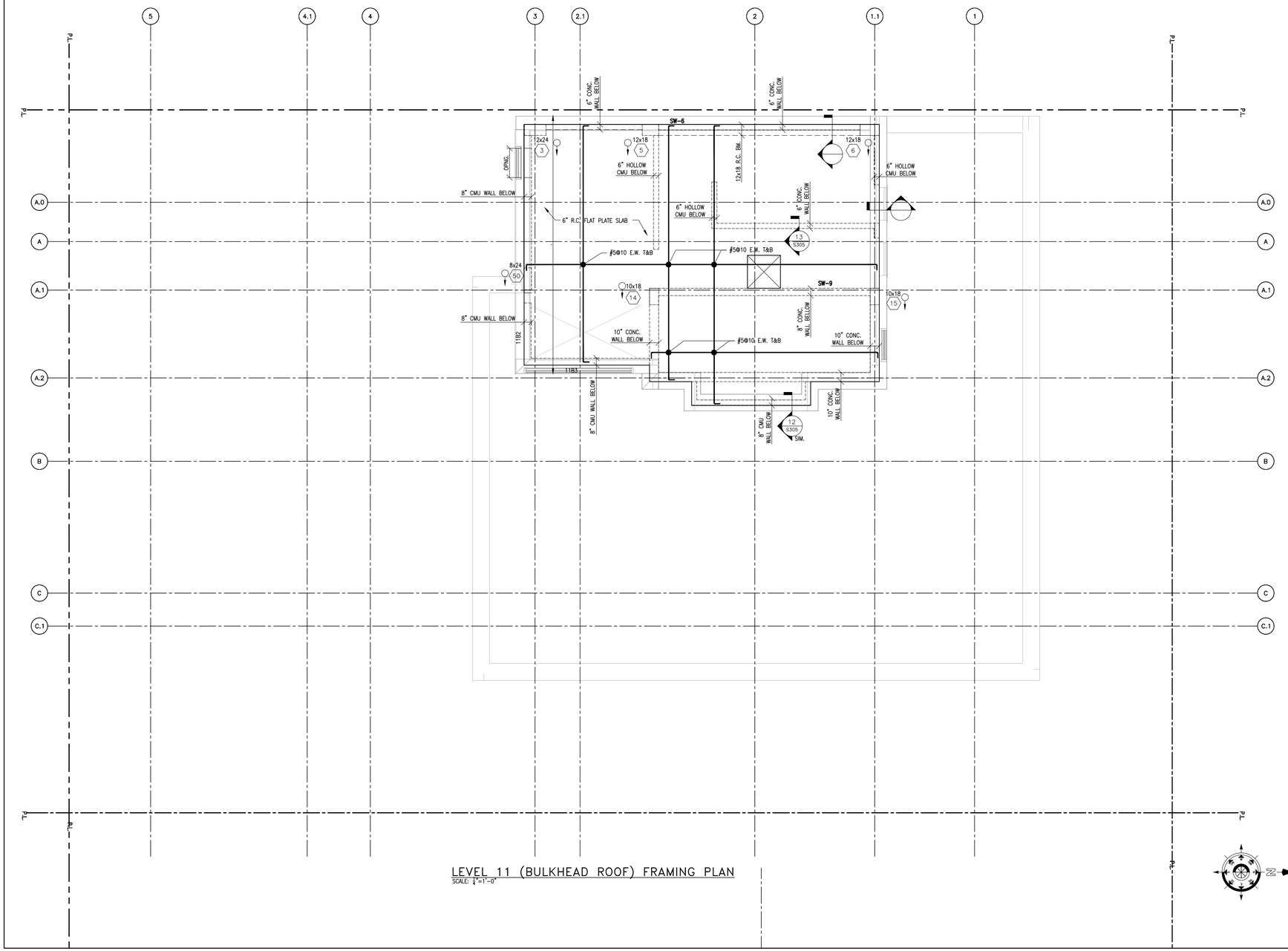

LEVEL 11 (BULKHEAD ROOF) FRAMING PLAN
SCALE: 1/4"=1'-0"

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Sheet Title:
LEVEL 11 (BULKHEAD ROOF) FRAMING PLAN

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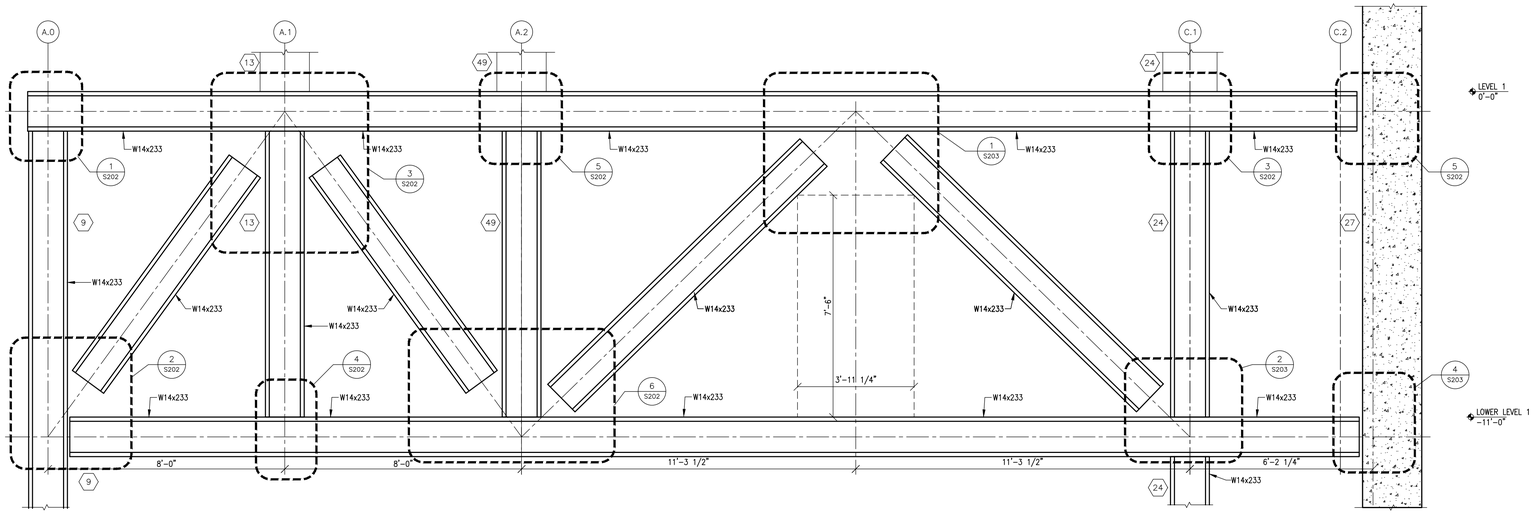

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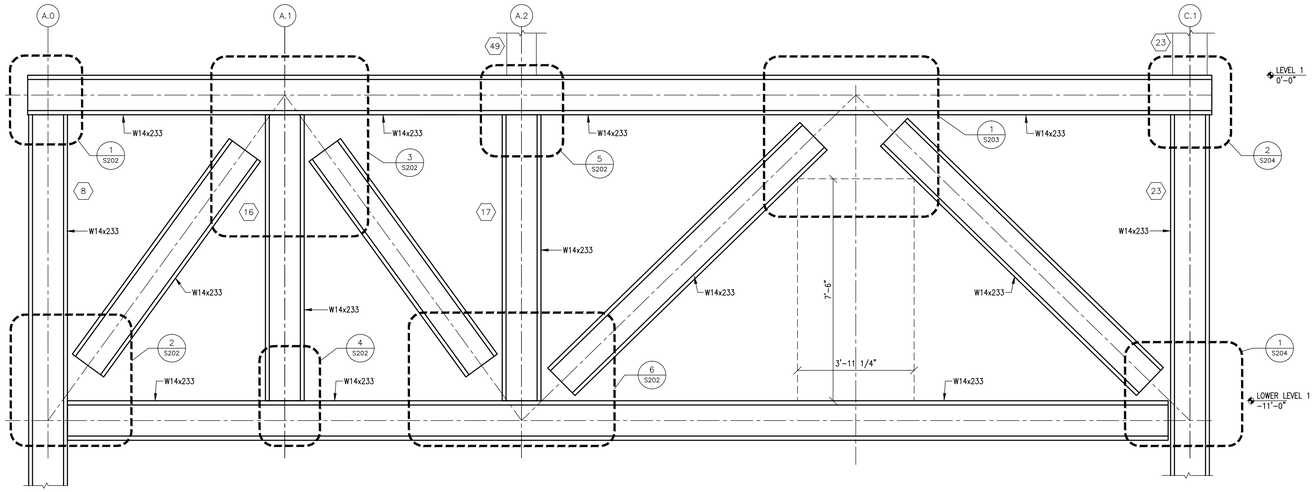

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07.01.13		80% CD Pricing Set

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TRUSSES I

Project Number: 12639 12666 AEA
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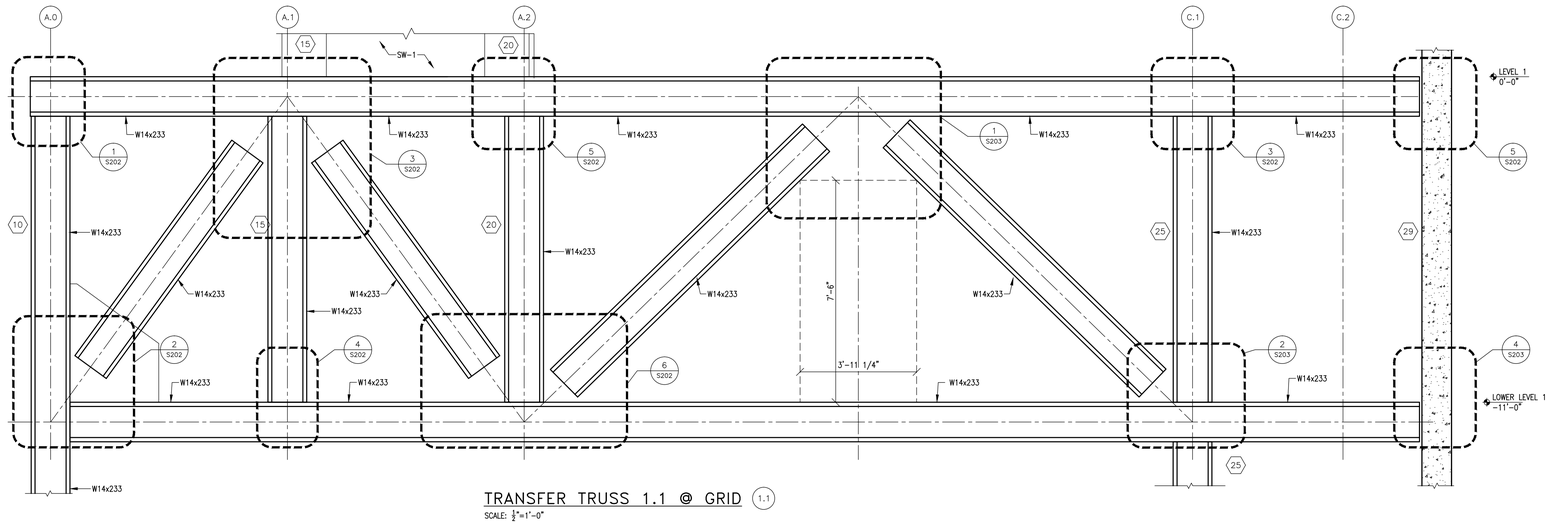

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Sheet Title:
TRUSSES II

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
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No. 050969
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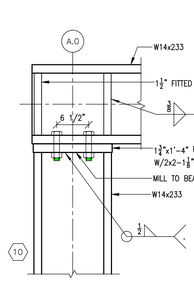

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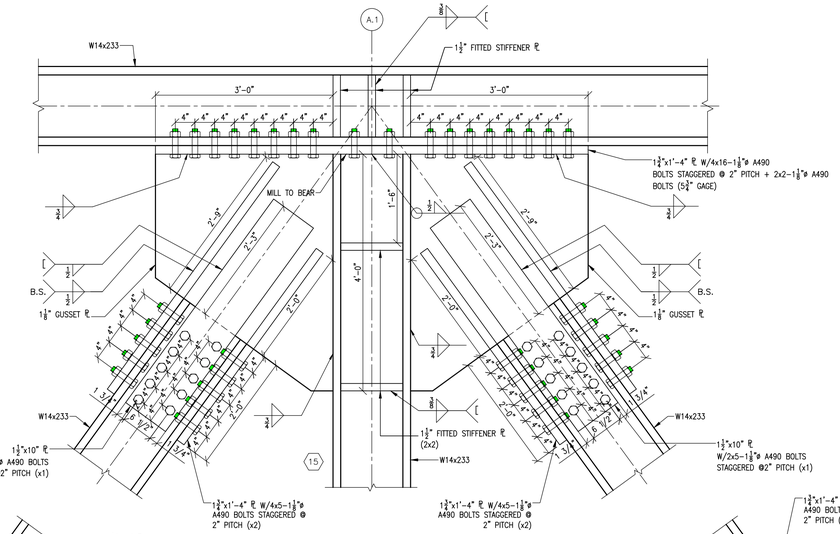

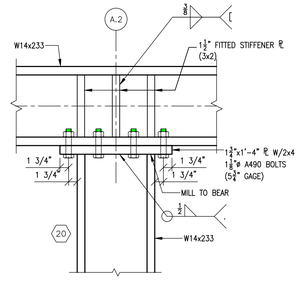

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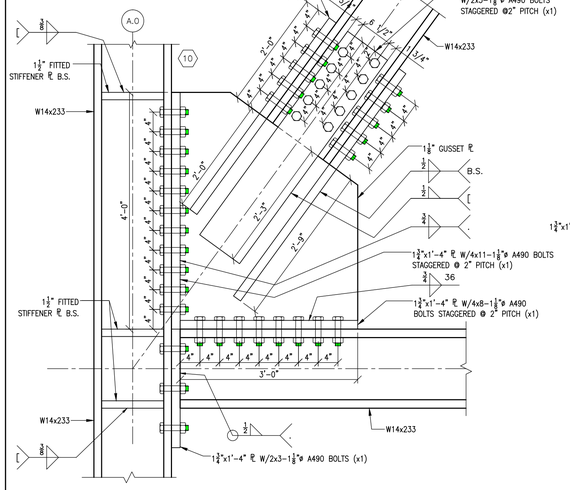

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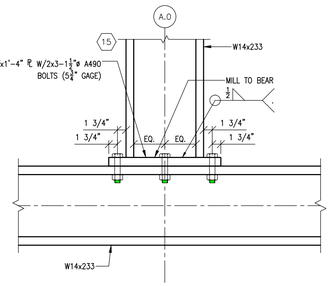

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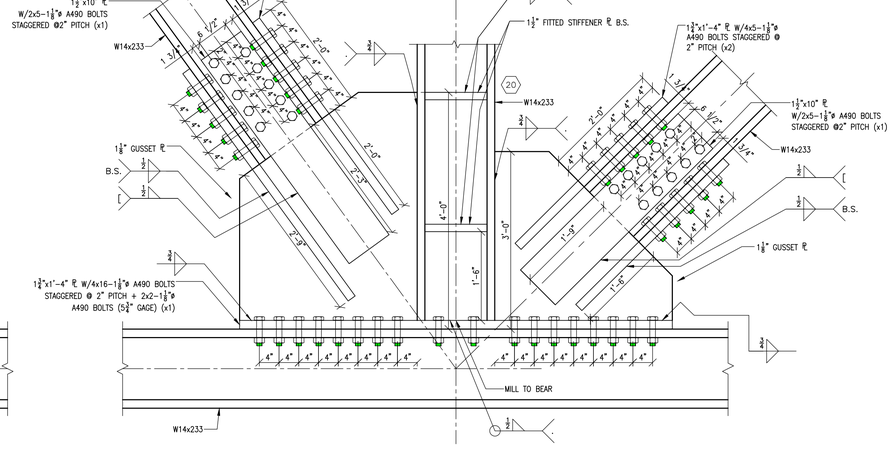

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TRANSFER TRUSS @ GRID 2.1 DETAILS I

Project Number: 12639 12666 AEA
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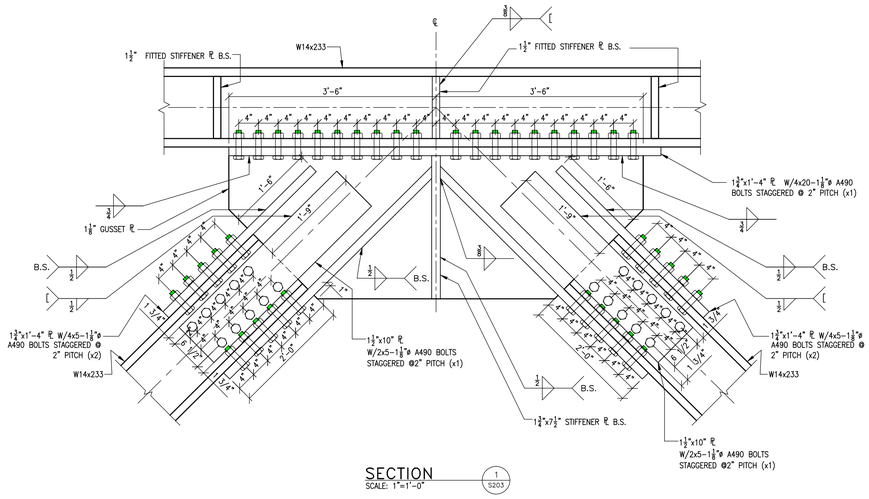
DEPT OF BLDGS 215329919 Job Number
E3509885B621 Scan Code



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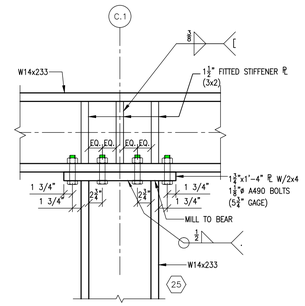
1 / S203



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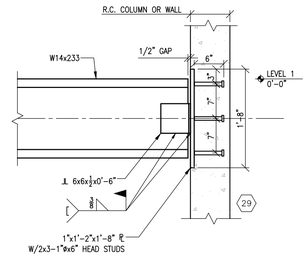
3 / S203



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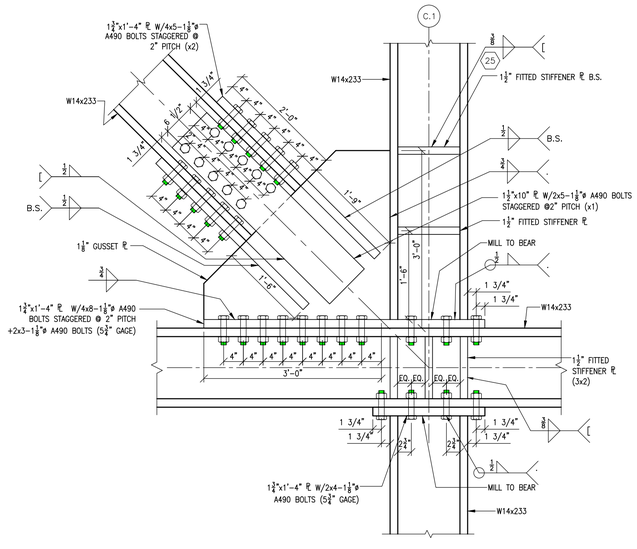
5 / S203



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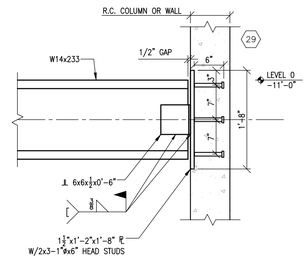
2 / S203



SECTION
SCALE: 1"=1'-0"
4 / S203

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
03.03.14		Issue For DOB
01.31.14		Guaranteed Max Price
01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:
TRANSFER TRUSS @ GRID 1.1 DETAILS II

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED

Signature & Seal:
STATE OF NEW YORK · CARL ANGERS · 16 · 020918 · REGISTERED PROFESSIONAL ENGINEER

Sheet Number:
S-203.00

Sheet: 23 of 59

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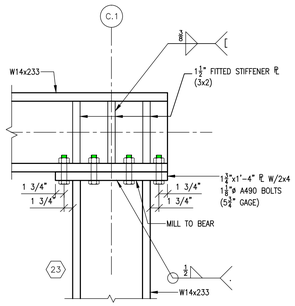
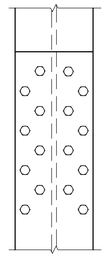
DEPT OF BLDGS 213239919 Job Number
ES357829729 Scan Code



SECTION
SCALE: 1"=1'-0"
2 / S204



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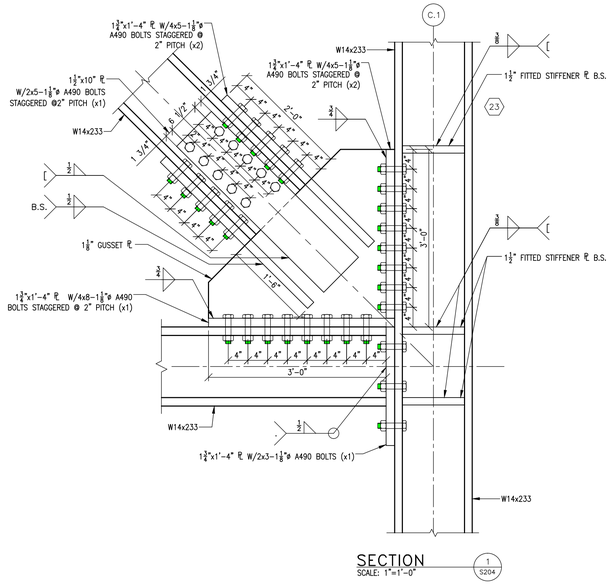

SECTION
SCALE: 1"=1'-0"
1 / S204

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
03.03.14		Issue For DOB
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01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:
TRANSFER TRUSS
@ GRID 4.1
DETAILS III

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED

Signature & Seal:
STATE OF NEW YORK ANGELO CAMPANELLA No. 062980 LICENSED PROFESSIONAL ENGINEER

Sheet Number:
S-204.00

Sheet: 24 of 59

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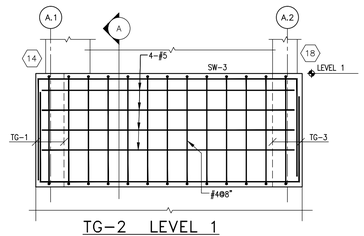

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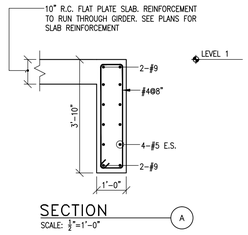

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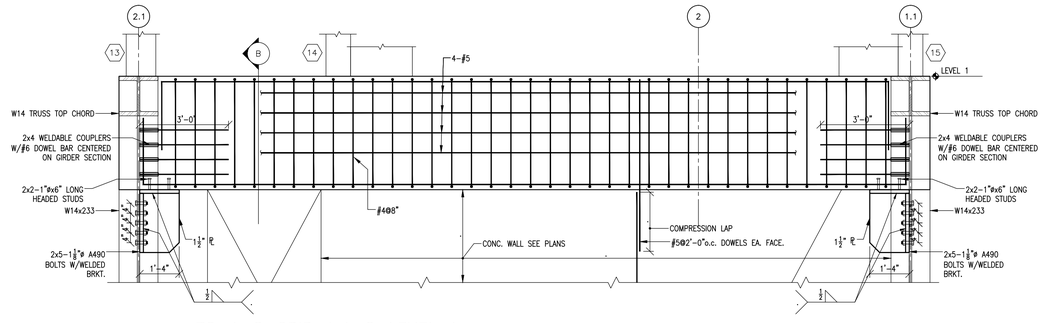

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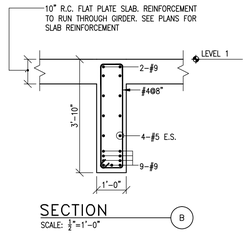

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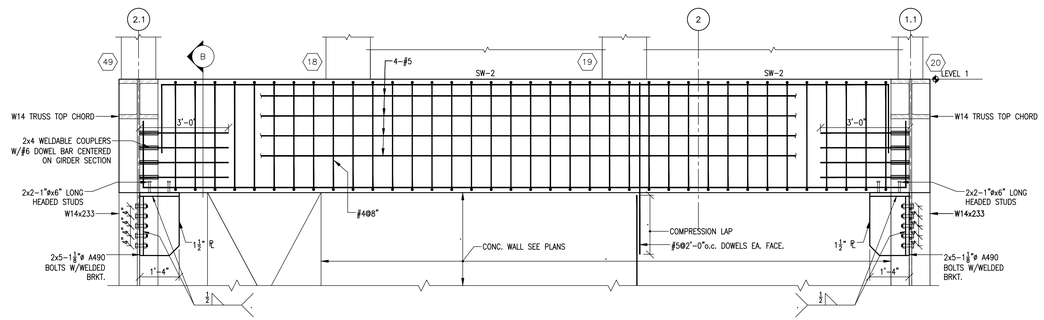

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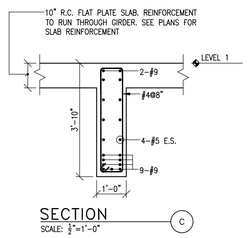

SECTION C
SCALE: 1/2"=1'–0"

DEPT OF BLDGS 213329919 Job Number
ESDGS445563 Scan Code

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Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
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Project:
8 West 70th St

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New York, NY 10023

Sheet Title:
TRANSFER GIRDERS I

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED

Signature & Seal:
STATE OF NEW YORK · ANDREW CHRISTOPHER · No. 082096 · LICENSED PROFESSIONAL ENGINEER

Sheet Number:
S-210.00

Sheet: 25 of 59

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DEPT OF BLDGS 215329919 Job Number
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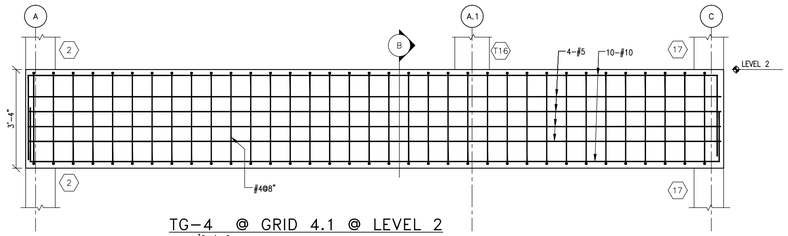

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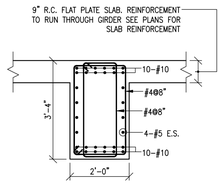

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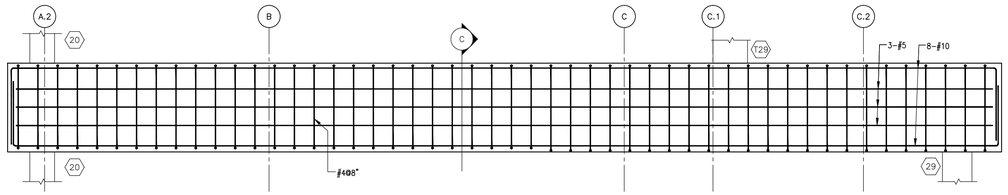

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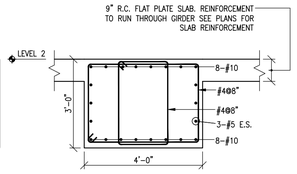

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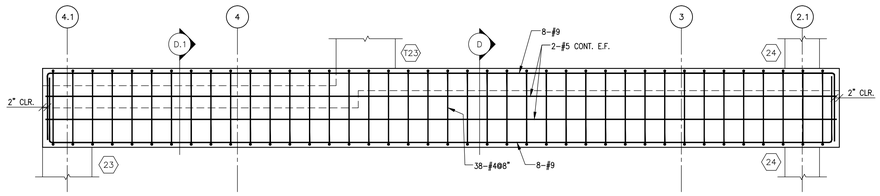

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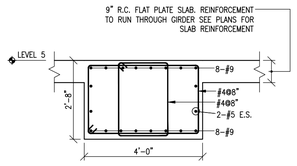

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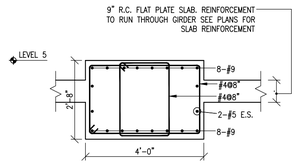

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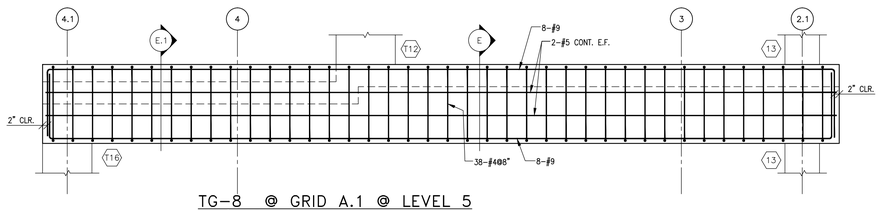

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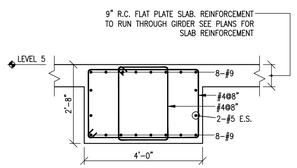

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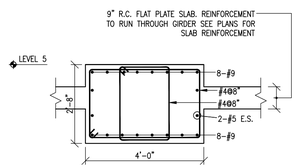

SECTION E.1
SCALE: 1/2"=1'–0"

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NYC Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
03.03.14		Issue For DOB
01.31.14		Guaranteed Max Price
01.10.14		Pricing Set
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08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
8 West 70th St

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Sheet Title:
TRANSFER GIRDERS II

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal:
STATE OF NEW YORK — ANGUS A. CAMPBELL — No. 065980 — LICENSED PROFESSIONAL ENGINEER

Sheet Number:
S-211.00

Sheet: 26 of 59

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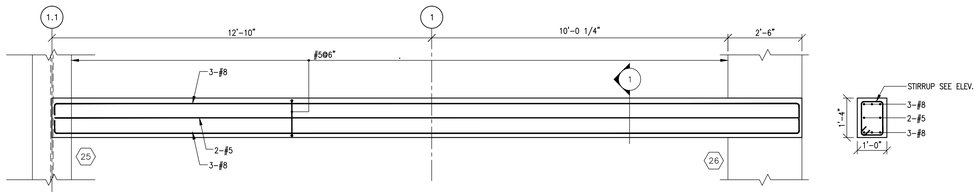
Opp. Ex. 1001 Page 107 of 205

DEPT OF BLDGS 121329919 Job Number
ES379397763 Scan Code



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

SECTION 1
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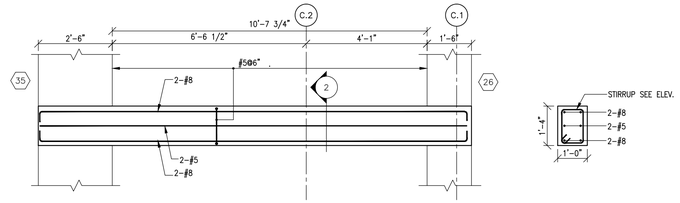

0B3 12x16 RC BM LOW @ STAIR LANDING @ LOWER LEVEL 1
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SECTION 2
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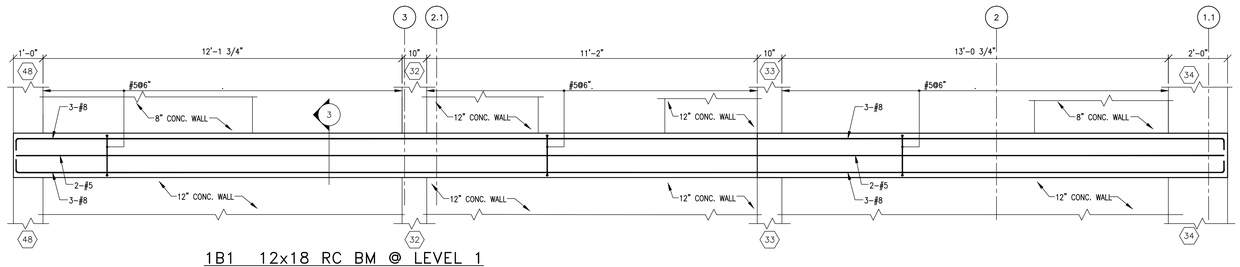

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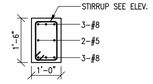
SCALE: 1/2"=1'-0"



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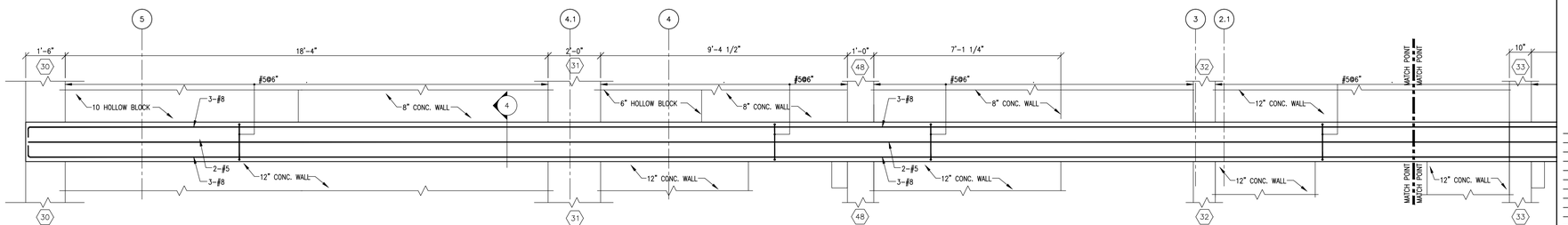

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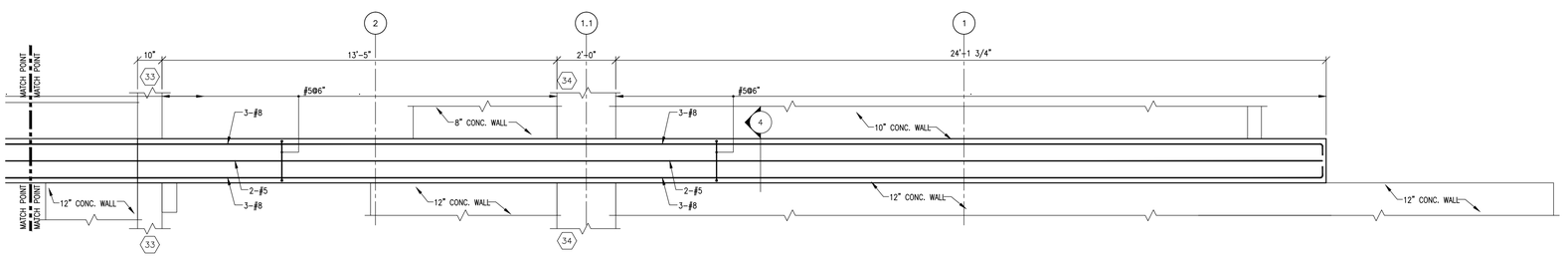
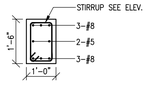
SCALE: 1/2"=1'-0"





SECTION 4
SCALE: 1/2"=1'-0"

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Project:
8 West 70th St

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Sheet Title:
R.C. BEAM DETAILS I

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED

Signature & Seal:
STATE OF NEW YORK — ANGELO CHRISTOPHER — No. 085098 — LICENSED PROFESSIONAL ENGINEER

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Sheet: 27 of 59

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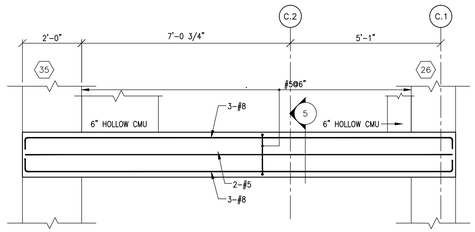

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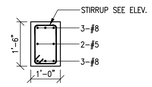
SCALE: 3/8"=1'-0"



SECTION 5
SCALE: 3/8"=1'-0"

DEPT OF BLDGS 121328919 Job Number

ES391376640 Scan Code

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
03.03.14		Issue For DOB
01.31.14		Guaranteed Max Price
01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:
R.C. BEAM DETAILS II

Project Number:
12639 12666 AEA

Drawn By:
CAD AEA

Checked By:
AC

Scale:
AS NOTED

Signature & Seal:
STATE OF NEW YORK
CHRIS ANASTASI
No. 050369
LICENSED PROFESSIONAL ENGINEER

Sheet Number:
S-221.00

Sheet:
28 of 59

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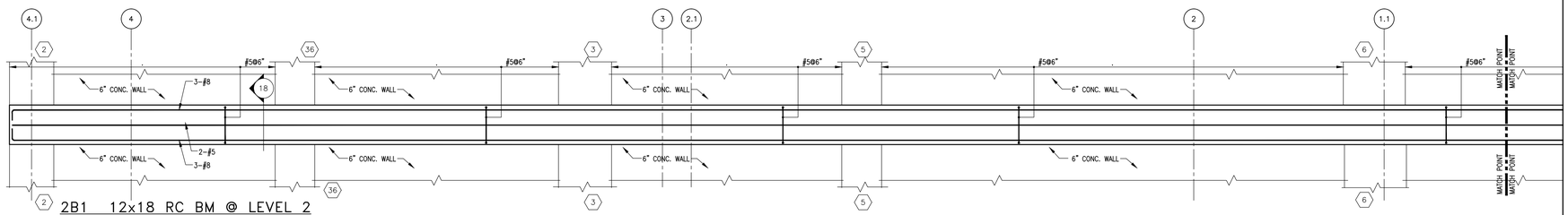
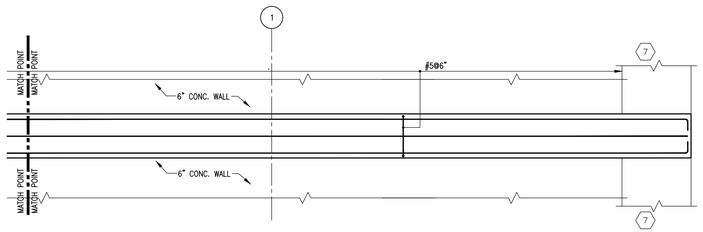
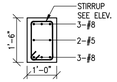
DEPT OF BLDGS 121329919 Job Number
ES7232186I9 Scan Code



2B1 12x18 RC BM @ LEVEL 2
3B1 12x18 RC BM @ LEVEL 3
4B1 12x18 RC BM @ LEVEL 4
5B1 12x18 RC BM @ LEVEL 5

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





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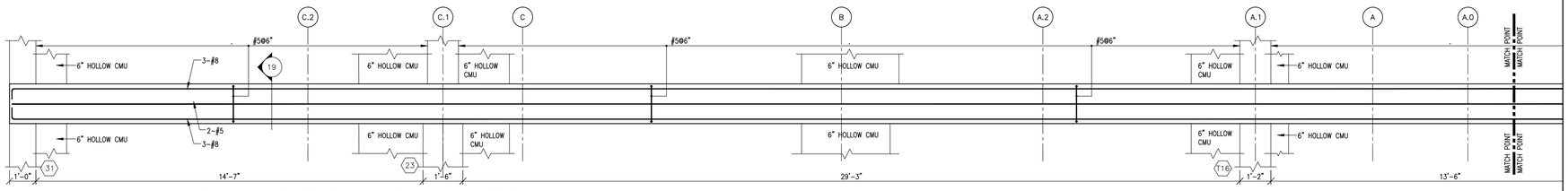
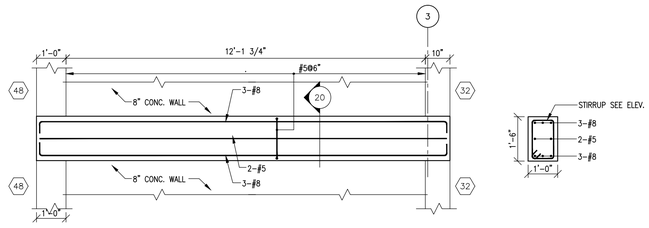


4B2 12x18 RC BM @ GRID 4.1 @ LEVEL 4
3B2 12x18 RC BM @ GRID 4.1 @ LEVEL 3
2B2 12x18 RC BM @ GRID 4.1 @ LEVEL 2

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



4B3 12x18 RC BM @ LEVEL 4
3B3 12x18 RC BM @ LEVEL 3

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

SECTION 20
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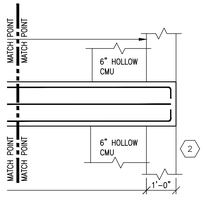

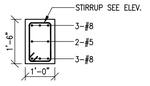

SECTION 19
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Project:
8 West 70th St

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New York, NY 10023

Sheet Title:
R.C. BEAM DETAILS III

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal: STATE OF NEW YORK, ANGELO CASTRO, No. 082098, LICENSED PROFESSIONAL ENGINEER

Sheet Number:
S-222.00

Sheet: 30 of 59

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DEPT OF BLDGS 213239919 Job Number
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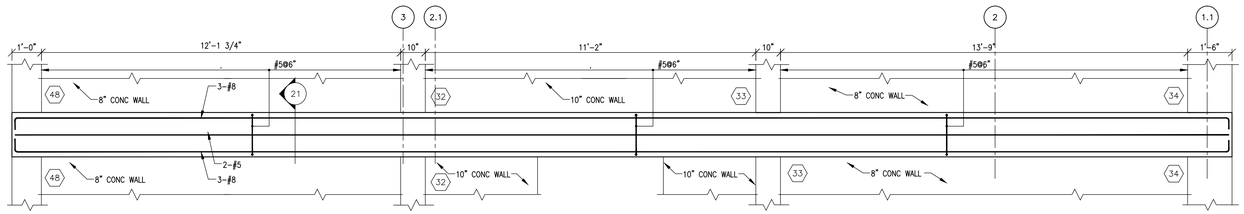

5B4 12x18 RC BM @ LEVEL 5
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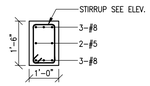

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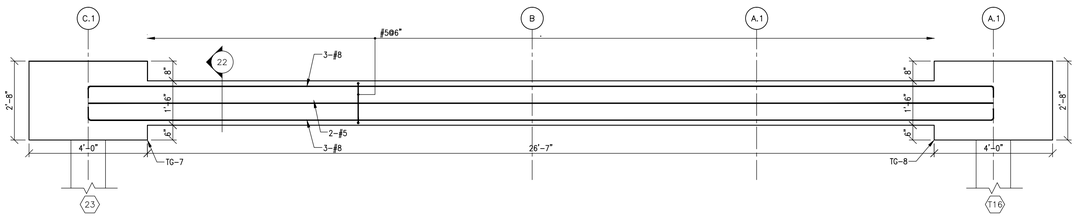

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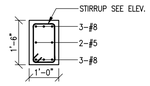

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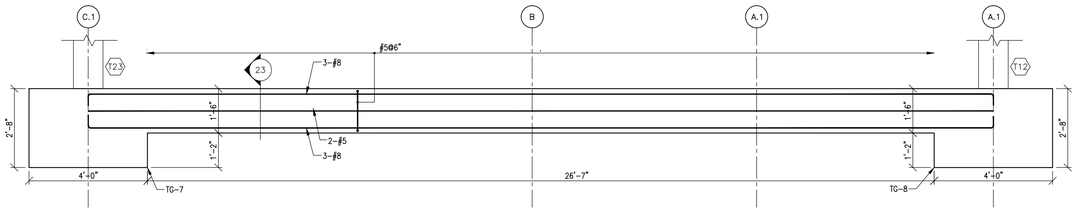

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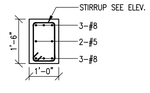

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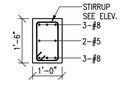

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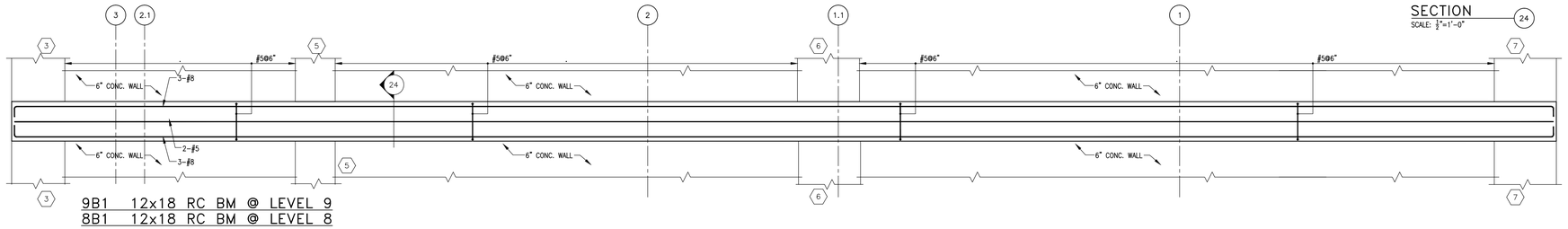

9B1 12x18 RC BM @ LEVEL 9
8B1 12x18 RC BM @ LEVEL 8
7B1 12x18 RC BM @ LEVEL 7
6B1 12x18 RC BM @ LEVEL 6
SCALE: 1/2"=1'-0"

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Shauqat Shaikh
Buildings
APPROVED
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Date: 05/04/2015
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Project:
8 West 70th St

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Sheet Title:
R.C. BEAM DETAILS IV

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
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Scale: AS NOTED

Signature & Seal:
STATE OF NEW YORK
SHAUQAT A. SHAIKH
No. 082998
REGISTERED PROFESSIONAL ENGINEER

Sheet Number:
S-223.00

Sheet: 31 of 59

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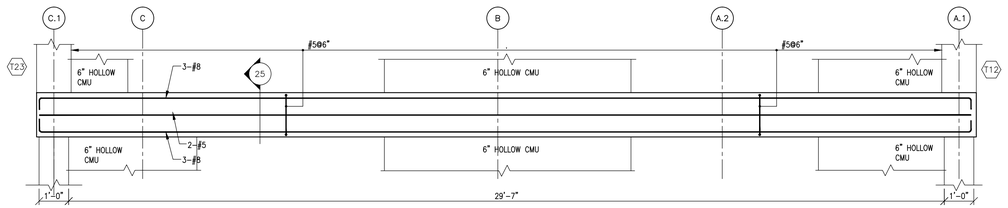
DEPT OF BLDGS 121329919 Job Number
E34830132786 Scan Code



6B2 12x18 RC BM @ LEVEL 6
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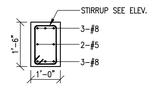

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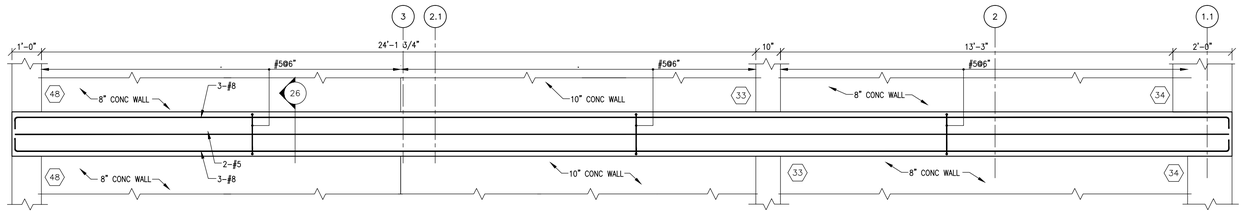

B24 12x18 RC BM @ LEVEL 6
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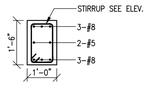

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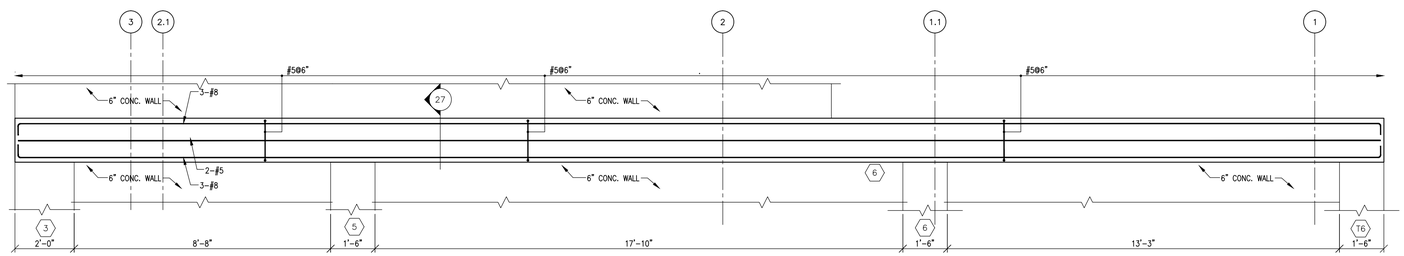

10B1 12x18 RC BM @ LEVEL 10 (MECHANICAL FLOOR)
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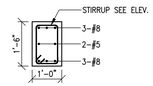

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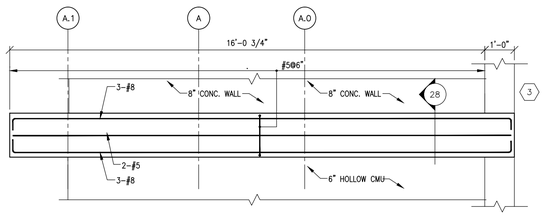

TB1 12x18 RC BM @ LEVEL 9
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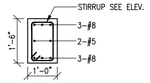

SECTION 28
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Project:
8 West 70th St

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New York, NY 10023

Sheet Title:
R.C. BEAM DETAILS V

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal: STATE OF NEW YORK SAMUEL ANGEL 040398 LICENSED PROFESSIONAL ENGINEER

Sheet Number:
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Sheet: 32 of 59

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DEPT OF BLDGS 121328919 Job Number

ES412365039 Scan Code

STRUCTURAL NOTES

GENERAL

1. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE AND WITH THE RULES AND REGULATIONS OF ALL LOCAL AGENCIES, DEPARTMENTS OR LAWS HAVING JURISDICTION OVER ANY PORTION OR SPECIFIC PHASE OF THE WORK. THE CONTRACTOR SHALL COORDINATE THE WORK WITH PUBLIC UTILITY COMPANIES HAVING JURISDICTION.

2. THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS REQUIRED FOR THE PERFORMANCE OF THE WORK AND PAY ALL FEES IN CONNECTION THEREOF.

3. CONTRACTOR SHALL COORDINATE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS.

4. THE SIZE AND LOCATION OF ALL EQUIPMENT PADS AND PENETRATIONS THROUGH THE STRUCTURE SHALL BE VERIFIED BY THE MECHANICAL, ELECTRICAL AND PLUMBING CONTRACTORS. ALL PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER.

5. THE CONTRACTOR SHALL NOT MAKE DEVIATIONS FROM DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT/ENGINEER.

6. IF THERE IS A DISCREPANCY ON THE CONSTRUCTION DOCUMENTS, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED IMMEDIATELY SO THAT THE DISCREPANCY CAN BE RESOLVED. UNLESS OTHERWISE INDICATED IN WRITING BY THE ARCHITECT/ENGINEER, THE MORE CONSERVATIVE INTERPRETATION OF THE CONSTRUCTION DOCUMENTS SHALL APPLY.

7. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS CONFIRMED BY FIELD CONDITIONS TAKE PRECEDENCE. IF DISCREPANCY ARISES BASED ON FIELD CONDITIONS, CONSULT WITH ARCHITECT/ENGINEER BEFORE PROCEEDING WITH WORK OR ORDERING MATERIALS.

8. ALL SECTIONS AND DETAILS SHALL BE CONSIDERED TYPICAL AND APPLY FOR THE SAME AND SIMILAR CONDITIONS, UNLESS OTHERWISE SPECIFICALLY NOTED.

9. ANY ITEM OF WORK NECESSARY FOR PROPER COMPLETION OF CONSTRUCTION, WHICH IS NOT SPECIFICALLY COVERED ON THE DRAWINGS OR IN THE SPECIFICATIONS, SHALL BE CONSIDERED INCLUDED IN THIS WORK AND SHALL BE PERFORMED IN A MANNER DEEMED GOOD PRACTICE OF THE TRADE INVOLVED.

10. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE SAFETY OF THE PUBLIC AND PROPERTY DURING CONSTRUCTION OPERATIONS AND UNTIL COMPLETION OF ALL WORK.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTION AND MISALIGNMENT.

12. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR THE PERFORMANCE OR THE WORK OF THE GENERAL CONTRACTOR, OWNER OR ANY OTHER SUBCONTRACTORS NOR SHALL HE GUARANTEE THEIR PERFORMANCE.

13. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER IMMEDIATELY IF HE OR SHE CANNOT COMPLY WITH ALL REQUIREMENTS.

14. THE ENGINER SHALL NOT BE RESPONSIBLE FOR ANY CHANGES TO THIS PROJECT MADE BY OWNER, GENERAL CONTRACTOR OR ANY SUBCONTRACTOR OR MATERIAL SUPPLIER UNLESS PROPERLY AUTHORIZED, IN WRITING, BY THE ENGINEER.

EXISTING CONDITIONS

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MEASURE ALL REQUIRED FIELD DIMENSIONS AND TO VERIFY ALL EXISTING CONDITIONS THAT ARE SHOWN ON THE DRAWINGS. SHOULD ANY OF THE CONDITIONS PROVE TO BE NOT AS SHOWN ON THE DRAWINGS, THE ENGINEER SHALL BE IMMEDIATELY INFORMED BEFORE PROCEEDING WITH ANY OF THE WORK.

2. THE FOLLOWING SEQUENCE OF WORK SHALL BE FOLLOWED:
   A. THE CONTRACTOR SHALL PROVIDE NECESSARY DEMOLITION WORK, AS NECESSARY TO REVEAL THE EXISTING STRUCTURE (FLOOR FRAMING AND WALLS) WHICH EFFECTS THE NEW WORK.
   B. THE ENGINEER AND CONTRACTOR SHALL REVIEW THE EXPOSED STRUCTURE AND DETERMINE IF ANY CHANGES NEED TO BE MADE TO THE NEW STRUCTURE AND DETAILS AS A RESULT OF THE CONDITIONS AND DIMENSIONS OF THE EXISTING FRAMING.
   C. ALL FIELD DIMENSIONS SHALL BE TAKEN BY THE CONTRACTOR FOR FABRICATION OF THE NEW STEEL.
   D. ALL THE ABOVE MUST BE DONE BEFORE SHOP DRAWINGS ARE STARTED.

SUBMITTALS

1. PRIOR TO PROCEEDING WITH THE WORK, CONTRACTOR SHALL SUBMIT THE FOLLOWING TO THE ENGINEER FOR REVIEW:
   A. MIX DESIGNS FOR ALL GRADES OF CONCRETE INCLUDING CERTIFIED TEST DATA ON STRENGTH OF SAMPLE BATCHES.
   B. PLACING AND SHOP DRAWINGS FOR ALL REINFORCING STEEL.
   C. MANUFACTURER'S CATALOG DATA, TOGETHER WITH CERTIFIED TEST DATA, FOR ANY PROPRIETARY PRODUCT PROPOSED AS A SUBSTITUTE FOR SPECIFIED MATERIALS.
   D. LIGHT GAUGE FRAMING SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND SHALL BEAR THE SEAL OF REGISTERED PROFESSIONAL ENGINEER.
   E. SUB CONTRACTOR QUALIFICATIONS FOR ELEVATED REINF. CONCRETE SLAB CONSTRUCTION
   F. FORM WORK AND SHORING PLANS FOR CONSTRUCTION SHALL BE SUBMITTED PLANS TO BE SIGNED AND SEALED BY N.Y.S. LICENSED P.E. AND SUBMITTED FOR REVIEW & APPROVAL BY THE E.O.R.
   G. STRUCTURAL STEEL FABRICATOR AND ERECTOR TO BE AISC CERTIFIED QUALIFIED AND HAVE SIGNIFICANT EXPERIENCE IN THE TYPE OF WORK SHOWN ON THE DRAWINGS.

2. REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS ONLY FOR GENERAL COMPLIANCE WITH DESIGN INTENT. REVIEW OF THE DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF COMPLETING THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. CONTRACTOR WILL ALLOW A MINIMUM OF 10 WORKING DAYS FOR REVIEW OF ALL SUBMITTALS, FOLLOWING RECEIPT BY ENGINEER.

3. SUBMIT THE FOLLOWING TO THE ENGINEER FOR REVIEW & APPROVAL:
   E. MILL CERTIFICATES AND TEST REPORTS FOR REINFORCING STEEL.
   F. MILL CERTIFICATES AND TEST REPORTS FOR STRUCTURAL STEEL.
   G. RESULTS OF CONCRETE SPECIMEN COMPRESSIVE STRENGTH TESTS, SUBMIT WITHIN 48 HOURS OF TESTING.
   H. TEMPORARY SHORING AND BRACING SHOP DRAWINGS PLANS.

FOUNDATION

1. FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT PREPARED BY RA CONSULTANTS, DATED 02/25/2013.

2. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL/ROCK HAVING A MINIMUM BEARING CAPACITY OF 20 TONS PER SQUARE FOOT.

3. MAXIMUM SLOPE BETWEEN BOTTOMS OF FOOTINGS SHALL BE ONE VERTICAL TO TWO HORIZONTAL.

4. THE DESIGN, ADEQUACY AND SAFETY OF BRACING, SHORING OF TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. SEE SOE DRAWINGS.

5. FOOTINGS FOR STAIRS, CONCRETE APRONS AND RAMPS SHALL BEAR AT OR BELOW MINIMUM BEARING DEPTH, MINIMUM BEARING DEPTH IS 3'–0" BELOW FINISHED GRADE.

6. FOOTING ELEVATIONS SHOWN ON FOUNDATION PLAN ARE BASED ON THE BORINGS AND CONSTITUTE THE BEST AVAILABLE INFORMATION. IT MAY BE NECESSARY TO LOWER FOOTINGS DUE TO FIELD CONDITIONS IN ORDER TO REACH ADEQUATE BEARING MATERIAL. FOOTINGS SHALL NOT BE CONSTRUCTED UNTIL SOIL, PREPARED FOR BEARING HAS BEEN APPROVED.

7. NO BACKFILLING OR COMPACTION AGAINST WALLS SHALL BE DONE UNTIL THE CONCRETE HAS ATTAINED FULL STRENGTH AND SUPPORTING SLABS ARE IN PLACE OR WALLS HAVE BEEN ADEQUATELY BRACED.

8. BACKFILL AGAINST GRADE BEAMS SHALL BE PLACED EVENLY ON BOTH SIDES.

9. FILL AND BACKFILL MATERIAL SHALL BE FREE OF ORGANIC MATTER.

10. CONSTRUCTION JOINTS IN WALLS SHALL BE VERTICAL JOINTS LOCATED A MINIMUM DISTANCE OF 4'–0" FROM ANY WALL OPENINGS OR CONCENTRATED LOADS.

11. NO HORIZONTAL CONSTRUCTION JOINTS WILL BE PERMITTED IN WALLS, BUTTRESSES, OR FOOTINGS UNLESS SPECIFICALLY SHOWN.

12. SPREAD FOOTINGS SHALL BE LOCATED SUCH THAT COLUMNS ARE CENTERED OVER FOOTINGS IN BOTH DIRECTIONS, UNLESS NOTED OTHERWISE ON PLAN.

13. NO FOOTING SHALL BE PLACED IN WATER OR ON FROZEN GROUND.

14. STANDARD PROCEDURES OF FROST PROTECTION FOR FOOTINGS AND FOOTING EXCAVATIONS SHALL BE USED FOR WINTER CONSTRUCTION. BACKFILLING OF FOOTING EXCAVATIONS SHALL BE DONE AS SOON AS POSSIBLE TO PROTECT FOOTINGS FROM FROST ACTION.

15. WATERSTOPS SHALL BE PLACED IN ALL CONSTRUCTION JOINTS BELOW GROUND LEVEL.

16. CONTRACTOR SHALL VERIFY ALL ELEVATIONS AND POSITIONS OF EXISTING FOUNDATIONS AT OR ADJACENT TO NEW CONSTRUCTION AND SUBMIT FIELD SKETCHES AS MAY BE REQUIRED FOR ARCHITECT/ ENGINEERS' APPROVAL BEFORE STARTING ANY FIELD WORK.

17. AS ALTERNATE, PRICE ALL FOUNDATION REBAR AS EPOXY COATED.

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO ACI–318 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS AND ACI–301 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, LATEST EDITION.

2. ALL CONCRETE SHALL BE 6000 P.S.I. CONTROLLED STONE OR GRAVEL CONCRETE, AIR ENTRAINED WHERE EXPOSED.

3. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A–706, GRADE 60,

4. ALL ELEVATED CONCRETE SLABS SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 6,000 PSI

5. ALL CONCRETE FOR COLUMNS, RETAINING WALLS, AND SHEAR WALLS SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 6,000 PSI

6. ALL CONCRETE FOR THE FOUNDATION SHALL BE STONE CONCRETE WITH A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 6,000 PSI.

7. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A–706 GRADE 60

8. ALL SLABS RECEIVE A STEEL TROWELED FINISH.

9. NO ADMIXTURE SHALL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ENGINEER.

10. ALL REQUIREMENTS FOR BATCHING, MIXING, FINISHING, CURING ETC. SHALL BE AS PER ACI 301.

11. THE CONCRETE MIX SHALL BE PROPORTIONED SO THAT NO LESS THAN 5.75 BAGS OF CEMENT ARE USED PER CUBIC YARD OF CONCRETE , AND NO MORE THAN 5 1/2 GALLONS OF WATER ARE USED PER BAG OF CEMENT. THE CONCRETE MIX SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO ANY CONCRETE WORK.

12. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A–185 WITH A MINIMUM ULTIMATE STRENGTH OF 70,000 PSI.

13. REINFORCING BARS SHALL BE SPLICED A MINIMUM OF 45 BAR DIAMETERS OR 24" WHICHEVER IS GREATER, UNLESS OTHERWISE NOTED. LAP TOP BARS AT MID SPAN AND BOTTOM BARS AT SUPPORTS.

14. DEVELOPMENT LENGTH, Ld (or ld) SHALL BE 35 BAR DIAMETERS OR 18", WHICHEVER IS GREATER, UNLESS OTHERWISE NOTED.

15. MINIMUM EMBEDMENT FOR STANDARD HOOKS SHALL BE 16 BAR DIAMETERS UNLESS OTHERWISE NOTED. THE 90 DEGREE END HOOK SHALL HAVE A MINIMUM LENGTH OF 12 BAR DIAMETERS.

16. MINIMUM CONCRETE COVERING OF REINFORCING STEEL SHALL BE AS FOLLOWS: 3/4" FOR SLABS 1" FOR INSIDE FACE OF WALLS 1–1/2" FOR BEAMS AND COLUMNS 1–1/2" FOR FORMED CONCRETE SURFACES EXPOSED TO WEATHER 2" FOR FORMED CONCRETE SURFACES EXPOSED TO EARTH 3" FOR FOOTINGS AND BEAMS POURED DIRECTLY AGAINST SOIL.

17. PROVIDE 2–#6 BARS MINIMUM IN ALL SIDES AROUND WALL OPENINGS. EXTEND HORIZONTAL BARS 2'–0" PAST OPENING ON EACH SIDE OR HOOK WHERE 2'–0 NOT POSSIBLE. EXTEND VERTICAL BARS FOR FULL HEIGHT OF WALL.

18. ALL FOUNDATION WALLS 12" THICK OR GREATER SHALL HAVE 2–#5 CONTINUOUS TOP AND BOTTOM BARS. ALL OTHER WALLS SHALL HAVE 2–#5 CONTINUOUS TOP AND BOTTOM BARS UNLESS OTHERWISE SHOWN.

19. NON–SHRINK GROUT SHALL BE NONMETALLIC WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 P.S.I.

20. PROVIDE PROPER HIGH CHAIRS, SPACERS AND SUPPORTS TO HOLD REINFORCING SECURELY IN PLACE WHILE PLACING CONCRETE.

21. THE CONTRACTOR SHALL ASCERTAIN LOCATION OF ALL SLEEVES, INSERTS ANCHOR BOLTS, ETC. REQUIRED BY OTHER TRADES. INSTALLATION OF ALL SUCH EMBEDMENTS SHALL BE CHECKED FOR COMPLETENESS AND LOCATION BEFORE CONCRETE IS POURED AND COORDINATED WITH SHOP DRAWINGS OF TRADES REQUIRING THESE ITEMS. MINIMUM CONCRETE BETWEEN SLEEVES SHALL BE 6 INCHES.

22. UNLESS OTHERWISE NOTED ON DRAWINGS, SLEEVES FOR PIPING THRU WALLS SHALL BE STEEL PIPE SLEEVES OF NOMINAL DIAMETER 2 INCHES LARGER THAN THE NOMINAL SIZE OF THE PIPE PENETRATING THE WALL. THE THICKNESS OF THE SLEEVE SHALL CONFORM TO SCHEDULE NO. 40 BUT NEED NOT BE MORE THAN 3/8 INCH.

23. CONSTRUCTION JOINTS WHEN REQUIRED SHALL BE LOCATED AT POINTS OF ZERO SHEAR AND MUST BE APPROVED BY THE ENGINEER. SPLICES IN REINFORCING RODS SHALL BE AT POINT OF MINIMUM STRESS. ENGINEER OF RECORD TO REVIEW AND APPROVE ANY MECHANICAL SPLICE CONNECTOR FOR REBAR

24. VERTICAL CONTRACTION JOINTS AT 20' C/C (MAXIMUM 10' FROM CORNERS) SHALL BE PROVIDED IN ALL WALLS OR AS INDICATED ON DRAWINGS. CONTRACTION JOINTS SHALL BE V–JOINTS IN EACH FACE OF WALL NOT EXPOSED TO EARTH (CORE WALLS EXCLUDED). SEE DRAWINGS FOR TYPICAL CONCRETE WALL CONTRACTION JOINT DETAIL.

25. EXPANSION AND CONTRACTION JOINTS BETWEEN CONCRETE MEMBERS SHALL BE FILLED WITH APPROVED MATERIAL.

26. PROVIDE WATERSTOPS AT ALL CONSTRUCTION JOINTS BELOW GRADE LEVEL.

27. ALL TEMPORARY OPENINGS AND BEAM OR COLUMN POCKETS SHALL BE FILLED. PROVIDE 2x4 KEY AROUND OPENING OR POCKET.

28. NO CONSTRUCTION SHALL BE MADE WITHOUT REINFORCEMENT. UNLESS OTHERWISE NOTED, THE FOLLOWING PERCENTAGE OF THE CROSS SECTIONAL AREA SHALL BE PROVIDED AS MINIMUM REINFORCEMENT:
   SLABS, TOP AND BOTTOM 0.20%
   BEAMS, TOP AND BOTTOM 0.33%
   STIRRUPS .... #3 @12"
   COLUMNS, VERTICAL 1.0%
   COLUMNS, VERTICAL TIES .... #3 @ 12"
   WALLS, SEE TYPICAL WALL DETAILS.

29. CALCIUM CHLORIDE SHALL NOT BE USED IN CONCRETE MIXES.

30. BACKFILL WITH LEAN CONCRETE TO BOTTOM OF FOOTING AROUND ALL PIPING PASSING BELOW THE SPREAD FOOTINGS. MINIMUM LENGTH OF LEAN CONCRETE ENCASEMENT SHALL BE FOOTING WIDTH PLUS 4 FEET. SEE DRAWINGS FOR TYPICAL DETAILS OF PIPE AT FOOTINGS

31. WHERE NEW CONCRETE IS TO BE PLACED AGAINST EXISTING CONCRETE SURFACES, THE EXISTING SURFACE SHALL BE ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY ¼ INCH. THE SURFACE SHALL BE CLEANED AND LAITANCE REMOVED IMMEDIATELY. ALL CONSTRUCTION JOINTS SHALL BE MOISTENED AND STANDING WATER REMOVED BEFORE THE NEW CONCRETE IS PLACED.

32. FOR EMBEDDED INSERT LOCATIONS, DETAILS, ELEVATIONS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS REFER TO THE ARCHITECTURAL DRAWINGS.

33. UNLESS OTHERWISE NOTED, REINFORCING BARS OR WELDED WIRE FABRIC SHALL NOT BE WELDED, TACK–WELDED OR USED FOR STRIKING AN ARC.

34. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI–306.

35. THROUGHOUT CONSTRUCTION, THE CONCRETE WORK SHALL BE ADEQUATELY PROTECTED AGAINST DAMAGE DUE TO EXCESSIVE LOADING, CONSTRUCTION EQUIPMENT, MATERIALS OR METHODS, ICE, RAIN, SNOW, EXCESSIVE HEAT AND FREEZING TEMPERATURES.

36. EARLY DRYING OUT OF CONCRETE, ESPECIALLY DURING THE FIRST 24 HOURS, SHALL BE CAREFULLY GUARDED AGAINST. ALL SURFACES SHALL BE MOIST CURED OR PROTECTED USING A MEMBRANE CURING AGENT APPLIED AS SOON AS FORMS ARE REMOVED. IF MEMBRANE CURING AGENT IS USED, EXERCISE CARE NOT TO DAMAGE COATING.

37. PROVIDE WELDABLE COUPLERS BY LENTON FOR THREADED REBAR AS NOTED. REBAR TO CONFORM A706 GRADE 60.

CONCRETE SLABS

1. ALL SLABS SHALL BE FINISHED AS NOTED ON ARCHITECTURAL DRAWINGS.

2. PROVIDE RECESSES AS REQUIRED FOR FLOOR FINISHES, SADDLES, ETC.

3. IF STRUCTURAL FLOOR SLABS AND BEAMS ARE NOT CONSTRUCTED IN ONE CONTINUOUS POUR, THE VERTICAL CONSTRUCTION JOINT BETWEEN POURS SHALL BE CONTINUOUSLY KEYED AND PLACED WITHIN THE MIDDLE FIFTH OF SPANS AND SHALL BE SHORED UNTIL MEMBER HAS ATTAINED MINIMUM 28 DAY STRENGTH. SEE TYPICAL CONSTRUCTION JOINT DETAILS. OTHER LOCATIONS MUST BE APPROVED BY THE STRUCTURAL ENGINEER.

CONCRETE SLABS – SLAB–ON–GRADE

4. WHERE SLAB ON GRADE IS SUPPORTED ON BACKFILL, THE FILL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING EIGHT INCHES (8") TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY PER ASTM D–1557. FILL MATERIAL SHALL BE LIMITED TO WELL GRADED SAND OR SAND AND GRAVEL MIXTURE WITH LESS THAN 10 TO 15 PERCENT FINES PASSING THE NO. 200 SIEVE AND A MAXIMUM GRAVEL SIZE OF 3 INCHES.

5. CONCRETE SLABS–ON–GRADE SHALL BE POURED OVER 10 MIL THICK CLEAR POLYETHYLENE FILM VAPOR BARRIER OF TYPE RECOMMENDED FOR BELOW GRADE APPLICATION.

6. SLAB–ON–GRADE, WHERE NOTED ON PLAN, TO BE MINIMUM 10" THICK U.O.N., REINFORCED WITH ONE LAYER OF 6x6 W4.0x4.0 WELDED WIRE FABRIC, U.O.N.

7. WELDED WIRE FABRIC FOR CONCRETE SLABS ON GRADE SHALL BE PLACED 2" BELOW TOP OF SLAB. LAP SPLICE OVERLAP LENGTH TO BE 8" AND SHALL BE MEASURED BETWEEN THE OUTERMOST CROSS WIRES OF EACH FABRIC SHEET. DO NOT PLACE WWF BELOW MIDDEPTH OF SLAB.

8. CONSTRUCT ISOLATION JOINTS IN SLABS–ON–GRADE AT POINTS OF CONTACT BETWEEN SLABS–ON–GRADE AND VERTICAL SURFACES, SUCH AS COLUMN PEDESTALS, FOUNDATION WALLS, GRADE BEAMS, AND OTHER LOCATIONS, AS INDICATED.

9. CONSTRUCT CONTRACTION (CONTROL) JOINTS IN SLABS–ON–GRADE TO FORM PANELS. UNLESS OTHERWISE SHOWN ON DRAWINGS, PROVIDE JOINTS NOT EXCEEDING 15 FEET IN EITHER DIRECTION AND LOCATED TO CONFORM TO BAY SPACING WHEREVER POSSIBLE (AT COLUMN CENTERLINES, HALF BAYS, THIRD BAYS.)

10. TO FORM CONTRACTION (CONTROL) JOINTS, USE SAW CUTS 1/8 INCH WIDE BY ONE–FOURTH OF SLAB DEPTH OR INSERTS 1/4 INCH WIDE BY ONE–FOURTH OF SLAB DEPTH, UNLESS OTHERWISE INDICATED.

11. LOCATION OF ALL JOINTS IN CONCRETE TO BE COORDINATED BY GENERAL CONTRACTOR WITH JOINTS IN FLOOR AND WALL FINISHES AND REVIEWED WITH AND APPROVED BY ARCHITECT PRIOR TO POURING OF SLABS.

12. PROPER CURING PROCEDURE SHALL BE USED FOR SLAB–ON–GRADE TO PREVENT SLAB CURL.

CONCRETE BLOCK WALLS & PIERS

1. ALL CONCRETE BLOCK SHALL CONFORM TO ACI 530–05 AND 530.1–05 LATEST EDITION.

2. CONCRETE BLOCK SHALL BE OF LIGHTWEIGHT AGGREGATE AND CONFORM TO THE FOLLOWING STANDARDS:
   SOLID BLOCK: ASTM C90, GRADE N1 (f'm 1800 PSI ON GROSS AREA).
   HOLLOW BLOCK: ASTM C90, GRADE N1 (f'm 1800 PSI ON NET AREA).

   COORDINATE BLOCK TYPES WITH STRUCTURAL & ARCH DWGS

3. ALL MORTAR SHALL BE AS FOLLOWED U.O.N.
   BELOW GRADE TYPE M f'c=2800 PSI
   REINFORCED MASONRY TYPE S f'c=1800 PSI

4. GROUT FOR FILLING CORES OF BLOCK SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI AND SHALL MEET THE ACI SPEC REQUIREMENT REFERENCED ABOVE.

5. ALL BLOCK DIMENSIONS INDICATED ON STRUCTURAL PLANS ARE NOMINAL DIMENSIONS.

6. ALL CONCRETE BLOCK BELOW GRADE SHALL BE FILLED SOLID WITH MORTAR OR GROUT.

7. MASONRY WALL SHALL BE REINFORCED WITH #5 BARS AT 32"o.c. IN CORES FILLED SOLID U.O.N.

8. SUBMITTALS, INCLUDING CALCULATIONS BY A NYS PE, SHALL BE FURNISHED FOR ALL PARTITION ANCHORS FOR APPROVAL BY THE EOR.

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Shauqat Shaikh
NYC Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
03.03.14		Issue For DOB
01.31.14		Guaranteed Max Price
01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:
GENERAL NOTES I

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
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Scale: AS NOTED

Signature & Seal:
STATE OF NEW YORK · CHRIS ANASTOS · No. 052369 · LICENSED PROFESSIONAL ENGINEER

Sheet Number: S-300.00

Sheet: 33 of 59

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STRUCTURAL NOTES

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL FOR BUILDINGS" – LATEST EDITION AND ALL CURRENT SUPPLEMENTS.

2. ALL WELDING WORK AND WELDING INSPECTION WORK SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE AWS D1.1–LATEST EDITION. ALL WELDING WORK SHALL BE DONE BY AWS CERTIFIED & QUALIFIED WELDERS. FIELD WELDING SHALL BE DONE BY THE MANUAL SHIELDED METAL ARC WELDING METHOD.

3. ALL STEEL SHAPES, PLATES, BARS, RODS, AND ANCHOR BOLTS, SHALL CONFORM TO ASTM A992. GRADE 50 ALL TUBES TO BE ASTM A500, GRADE C.

4. ALL BOLTS SHALL BE ASTM A490 BOLTS. PROVIDE A MINIMUM OF TWO BOLTS PER CONNECTION, UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

5. ALL NEW STEEL WITHIN THE BUILDING IS TO BE PAINTED WITH TNEMEC Q99 OVER WIRE BRUSHED STEEL AS PER SSPC SP2. 6. ALL STEEL EXPOSED TO WEATHER IS TO BE PAINTED WITH TNEMEC PAINT 90–97 ZINC RICH PRIMER & SERIES 73 ENDURA–SHIELD III TOP COAT OVER COMMERCIAL BLAST CLEAN PER SSPC–SP6

6. SUBMIT SHOP DRAWINGS OF THE STRUCTURAL STEEL TO ENGINEER FOR APPROVAL PRIOR TO STARTING ANY WORK.

7. ALL WORK FABRICATED IN THE SHOP AND ERECTED IN THE FIELD SHALL BE FULLY INSPECTED BY A QUALIFIED TESTING AGENCY HIRED BY THE OWNER/DESIGN PROFESSIONAL.

8. ALL WORK FABRICATED IN THE SHOP AND ERECTED IN THE FIELD SHALL BE DONE BY A QUALIFIED AISC CERTIFIED FABRICATOR AND AISC CERTIFIED ERECTOR. ALL CERTIFICATIONS FOR THE STRUCTURAL STEEL SUB–CONTRACTOR SHALL BE SUBMITTED TO THE EOR.

COLD FORMED STEEL

1. ALL COLD FORMED METAL FRAMING SHALL CONFORM TO AISI NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS, LATEST EDITION.

2. COLD FORMED STEEL, INCLUDING STUDS, JOISTS AND ACCESSORIES SHALL CONFORM TO THE FOLLOWING MINIMUM YIELD STRENGTHS AND SPECIFICATIONS, UNLESS OTHERWISE NOTED.

	YIELD	ASTM SPEC.
16 GAUGE AND HEAVIER:	50 K.S.I.	A–653
18 GAUGE AND LIGHTER	33 K.S.I.	A–653

3. ALL STUDS AND/OR JOISTS AND ACCESSORIES SHALL BE OF THE TYPE, SIZE AND THICKNESS SHOWN ON THE DESIGN DRAWINGS. & SHOP DRAWINGS.

4. ALL STORED PRODUCTS SHALL BE LAID FLAT AND PROTECTED FROM CONDITIONS THAT MIGHT CAUSE PHYSICAL DAMAGE.

5. ANY DAMAGED MATERIAL, AS DETERMINED BY PROJECT ARCHITECT AND/OR ENGINEER SHALL BE REMOVED IMMEDIATELY FROM THE PREMISES AT NO COST TO THE OWNER.

6. TEMPORARY BRACING SHALL BE PROVIDED AND REMAIN IN PLACE UNTIL WORK IS PERMINANTELY STABILIZED.

7. ALL COLD FORMED STEEL SHALL BE GALVANIZED WITH G–60 COATING IN CONFORMANCE WITH ASTM C–995.

8. CUTTING OF COLD FORMED STEEL SHALL BE BY SAW OR SHEAR. NO TORCH CUTTING IS PERMITTED. NO CUTTING OF LOADED MEMBERS WITHOUT PERMISSION OF ARCHITECT/ENGINEER.

9. BRACING & BRIDGING SHALL BE OF THE TYPE AND SIZE SHOWN ON THE DESIGN DRAWINGS & SHOP DRAWINGS.

10. ANCHORAGE OF TRACK TO SUPPORTING STRUCTURE SHALL BE BASED ON MATERIAL TO BE ATTACHED TO. WHEN CONNECTION IS NOT SHOWN ON DRAWINGS, PROJECT ARCHITECT SHALL DETERMINE CONNECTION.

11. WELDS SHALL CONFORM TO AWS E1.3, D1.3 AND AISI MANUAL, WELDS MAY BE BUTT, FILLET, SPOT OR GROOVE TYPE AS SHOWN ON DRAWINGS. ALL WELDS SHALL BE TOUCHED UP WITH ZINC RICH PAINT.

12. STEEL SCREWS SHALL BE No, 10–16 SELF TAPPING, SELF DRILLING SCREWS UNLESS OTHERWISE SHOWN ON DRAWINGS.

13. THE FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGN AND ADEQUACY OF ALL CONNECTIONS THAT ARE NOT FULLY DETAILED ON THE CONTRACT DRAWINGS.

14. ALL COLD FORMED STEEL FRAMING TO BE DESIGNED, ENGINEERED & DETAIL BY A LICENSED N.Y.C. PROFESSIONAL ENGINEER. FULLY DETAILED SHOP DRAWING ARE TO BE FURNISHED FOR REVIEW & APPROVAL

DRILLED IN ANCHORS

1. THE FOLLOWING POST INSTALLED ANCHORS SHALL BE USED UNLESS OTHERWISE NOTED ON DRAWINGS:

 1.1. CAST–IN–PLACE CONCRETE:
 EPOXY ANCHORS: HILTI HIT HY–200
 EXPANSION ANCHORS: HILTI KWIK BOLT TZ ANCHORS
 1.2. MASONRY WALLS:
 EPOXY & UNGROUTED: HILTI HIT–HY 70 ANCHOR SYSTEM WITH SCREEN INSERT
 EXPANSION: HILTI KWIK BOLT TZ ANCHORS

2. FOR THE SUBSTITUTION OF ANOTHER ANCHOR MANUFACTURER, THE CONTRACTOR SHALL SUBMIT PRODUCT DATA INDICATING EQUIVALENT STRENGTH FOR EACH ANCHOR. THE CONTRACTOR MAY USE THOSE ANCHORS ONLY IF APPROVED BY THE ENGINEER OF RECORD.

3. REPRESENTATIVE OF THE ANCHOR MANUFACTURER SHALL PROVIDE TRAINING TO THE CONTRACTOR FOR PRODUCT INSTALLATION TECHNIQUES FOR ANCHORS TO BE USED. CONTRACTOR SHALL SUBMIT COMPLETION OF TRAINING CERTIFICATE TO ENGINEER FOR RECORD.

GROUT

1. GROUT BELOW BASE PLATES, FOR UNDERPINNING AND FOR GROUTING BETWEEN NEW BEAMS AND EXISTING CONSTRUCTION, AND AS OTHERWISE SHOWN ON THE DRAWINGS SHALL BE NON SHRINK, NON METALLIC GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 1 DAY AND 6000 PSI AFTER 7 DAYS,

2. GROUT REFERRED TO AS 'DRY PACK' SHALL MEET THE STRENGTH REQUIREMENTS ABOVE BUT HAVE A LOW WATER CONTENT SO THAT IT WOULD BE STIFF ENOUGH TO BE PACKED SOLIDLY INTO PLACE.

3. GROUT THAT NEEDS TO BE INSTALLED THICKER THAN 3" IN THE VERTICAL DIMENSION SHALL HAVE PEA GRAVEL ADDED.

4. CONTRACTOR SHALL SUBMIT MANUFACTURE'S DATA ON GROUT TO BE USED, AS WELL AS DESIGN MIXES FOR GROUT WITH ADDED PEA GRAVEL, TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL.

DESIGN LOADS

1. DESIGN LOADS SHALL CONFORM TO THE FOLLOWING:

 1.1. NEW YORK CITY BUILDING CODE, 2008
 1.2. IBC 2006
 1.3. ANSI/ASCE 7–02 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.

2. LIVE LOAD:

CELLAR	75 PSF
1ST FLOOR	100 PSF
2ND THRU 9TH FLOORS	40 PSF
MECHANICAL ROOF	75 PSF
ROOF	40 PSF
TERRACE, BALCONY	100 PSF
BULKHEAD	40 PSF

3. SNOW LOAD:

 GROUND SNOW LOAD 25 PSF
 SNOW LOAD DRIFT AND UNBALANCED LOADS PER ASCE 7–02

4. WIND LOAD:

 CATEGORY III
 EXPOSURE "B"
 BASIC WIND SPEED 98 MPH
 MWFRS : 25 PSF (100' TO 300' HT)
 20 PSF (0' TO 100' HT)
 N.Y.C. COMPONENTS & CLADDING 30 PSF ±
 DESIGN WALL END ZONE 28.48 PSF
 DESIGN WALL INTERIOR ZONE 21.24 PSF
 DESIGN ROOF END ZONE UPLIFT 67.65 PSF
 DESIGN ROOF INTERIOR ZONE UPLIFT 26.07 PSF

5. SEISMIC LOAD:
 STRUCT OCCUP. CAT: III
 SITE CLASS "B"
 Sds = 0.243g
 Sd1 = 0.047g
 SEISMIC USE GROUP II
 SEISMIC DESIGN CATEGORY "B"

 SFRS = SEISMIC FORCE–RESISTING SYSTEM:
 F. SHEAR WALL FRAME INTERACTIVE SYSTEM: ORDINARY REINFORCED CONCRETE SHEAR WALL. & ORDINARY REINFORCED CONCRETE MOMENT FRAMES

 Iw = 1.15
 Ie = 1.25
 R = 5.5
 Ω = 2 1/2
 Cd = 5

STRUCTURAL TESTS & "SPECIAL" INSPECTION

1. ALL MATERIALS, ASSEMBLIES, METHODS OF CONSTRUCTION AND SERVICE EQUIPMENT SHALL COMPLY WITH N.Y.C. BUILDING CODE REQUIREMENTS FOR "STRUCTURAL TESTS & SPECIAL INSPECTIONS AND ACCEPTANCE" CHAPTER 17 SECTIONS BC1701, BC1703, BC1704 & BC1710 AND CHAPTER 18 SECTIONS BC1801 THRU BC1814

2. DETAILED REQUIREMENTS OF INSPECTION AND TESTING WILL COMPLY WITH CHAPTERS 17 SECTIONS BC1701, BC1703, BC1704 & BC1710 AND CHAPTER 18 SECTIONS BC1801 THRU BC1814 OF THE N.Y.C. BUILDING CODE. BUILDING DEPARTMENT FORMS ARE TO BE FILED FOR THE FOLLOWING AREAS FOR THE STRUCTURAL WORK: CONSTRUCTION

 A. STRUCTURAL STEEL WELDING (BC1704.3.1)
 B. STRUCTURAL STEEL ERECTION AND BOLTING (BC1704.3.2, BC1704.3.3)
 C. CONCRETE–CAST IN PLACE (BC1704.4)
 D. CONCRETE–DESIGN MIX (BC1905.3)
 E. CONCRETE TEST CYLINDERS (BC1905.6)
 F. SOILS–SITE PREPARATION (BC1704.7.1)
 G. SOILS–FILL PLACEMENT AND IN PLACE DENSITY (BC1704.7.2, BC1704.7.3)
 H. SOILS–INVESTIGATION (BORINGS/TEST PITS) (BC1704.7.4)
 I. STRUCTURAL SAFETY–STRUCTURAL STABILITY(BC1704.19)
 J. FOOTINGS AND FOUNDATIONS (BC109.3.1),
 K. ALLOWABLE LOAD–BEARING VALUES OF SOILS (BC1804)
 P. SPRAYED FIRE RESISTANT MATERIAL (BC1704.11)

3. THE OWNER SHALL HIRE AND PAY FOR THE SERVICES OF A N.Y. STATE LICENSED P.E. AND A N.Y. CITY LICENSED TESTING LABORATORY TO PROVIDE THE TESTING AND INSPECTION REQUIRED FOR "SPECIAL" INSPECTIONS.

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
03.03.14		Issue For DOB
01.31.14		Guaranteed Max Price
01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
8 West 70th St

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Sheet Title:
GENERAL NOTES II

Project Number: 12639 12666 AEA
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Signature & Seal: STATE OF NEW YORK SHAUQAT ANASTOS No. 082980 LICENSED PROFESSIONAL ENGINEER

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Sheet: 34 of 59

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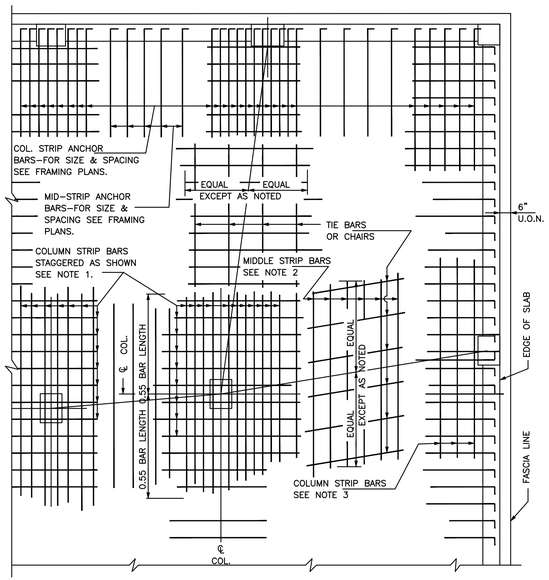
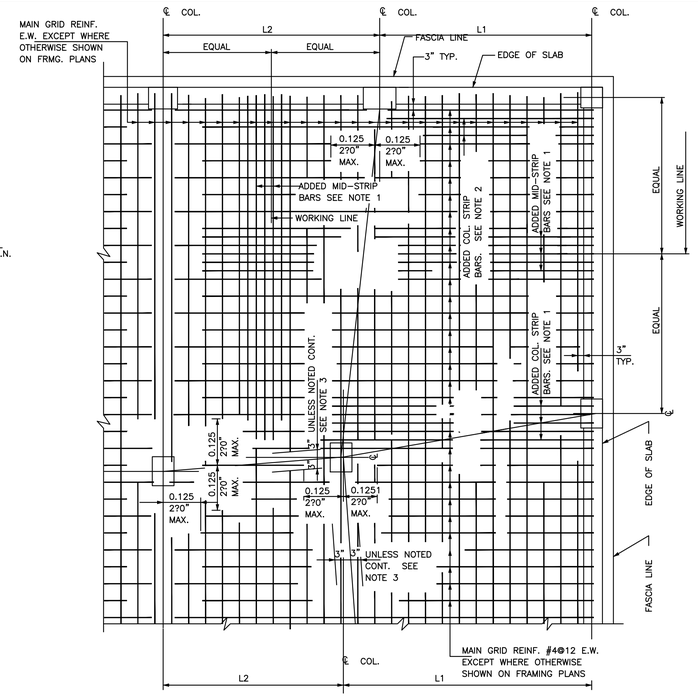
DEPT OF BLDGS 213329919 Job Number
ES5006900399 Scan Code



TOP REINFORCEMENT

NOTES:

1. COLUMN STRIP BARS SPACED AS SHOWN ON PLANS. BARS MAY BE STAGGERED AT CONTRACTOR OPTION (SEE TYPICAL FLAT PLATE DETAIL) UNLESS OTHERWISE SHOWN ON PLANS. PLACE BARS ABOUT COLUMN ℄ AND GROUP APPROX. IN PROPORTION TO C.C DISTANCE OF ADJACENT COLUMNS.
2. MID–STRIP BARS TO BE SPACED AS SHOWN ON PLANS. FIRST BAR TO BE PLACED A DISTANCE FROM COLUMN STRIP BAR NOT EXCEEDING MID–STRIP BAR SPACING.
3. COLUMN STRIP BARS PARALLEL TO SPANDREL BEAM TO HAVE FIRST BAR AT $\frac{1}{2}$" OF SCHEDULED SPACING FROM EDGE OF SPANDREL. 6" MAX.

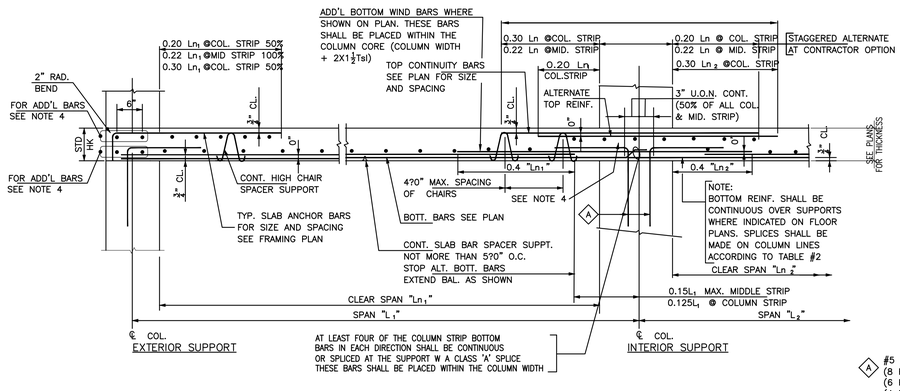


BOTTOM REINFORCEMENT

TYPICAL FLAT SLAB REINFORCEMENT DETAILS

BARS IN N–S DIRECTION TO BE PLACED IN UPPER MOST AND LOWER MOST LAYERS.

EPOXY COATED REINFORCEMENT LENGTH CRITERIA (WHERE SPECIFIED ON PLANS)
1. FOR REINFORCING LENGTHS SHOWN ON PLAN OR AS DETERMINED FROM TYPICAL DETAILS, ADD ADDITIONAL LENGTH EACH END (EXCEPT HOOKED BARS) EQUAL TO 50% OF "d" AS SHOWN IN DEVELOPMENT AND LAP SPLICE LENGTH TABLE
2. TENSION DEVELOPMENT LENGTHS AND LAP SPLICE TO BE 1.5X TABLE VALUES.



TYPICAL FLAT PLATE SECTION

(FOR DROP PANEL SEE DETAIL)
Ln–LARGER OF Ln_1 & Ln_2

NOTES:

1. PLACE ADDED BARS BETWEEN TYPICAL BOTTOM BARS AND GROUP ABOUT WORKING LINE IN APPROX. PROPORTION TO C.C. DISTANCE OF ADJACENT WORKING LINES . FOR SIZE SEE PLANS
2. PLACE ADDED BARS BETWEEN TYPICAL BOTTOM BARS STARTING AT EDGE OF SPANDREL BEAM
3. REINFORCEMENT SHALL BE CONTINUOUS OVER SUPPORTS WHERE INDICATED ON FLOOR PLANS SPLICES SHALL BE MADE ON COLUMN LINES.

A #5 BARS 2'-0" 2 MIN IN EACH DIRECTION
(8 REQ'D @ INTERIOR COLUMN)
(6 REQ'D @ EDGE COLUMN)
(4 REQ'D @ CORNER COLUMN)

STRUCTURAL NOTES

GENERAL:

1. WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE NEW YORK CITY BUILDING CODE, LATEST EDITION, AND THE BUILDING DEPARTMENT RULES.
2. ALL STRUCTURAL WORK SHALL BE COORDINATED WITH THE ARCHITECTURAL AND MECHANICAL DWGS AND SHALL CONFORM TO THE PROJECT SPECIFICATIONS.

EXISTING CONDITIONS

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MEASURE ALL REQUIRED FIELD DIMENSIONS AND TO VERIFY ALL EXISTING CONDITIONS THAT ARE SHOWN ON THE DRAWINGS. SHOULD ANY DEVIATIONS FROM WHAT IS SHOWN ON THE DRAWINGS BE FOUND, THE ENGINEER SHALL BE IMMEDIATELY INFORMED BEFORE PROCEEDING WITH ANY OF THE WORK.

SHORING

1. CONTRACTOR SHALL PROVIDE TEMPORARY SHEETING SHORING, BRACING AND SCAFFOLDING AND PROTECT ALL ADJACENT PROPERTIES AS PROJECT CONDITIONS REQUIRE.
2. COORDINATE THIS WORK WITH THE WORK OF THE EXCAVATION CONTRACTOR
3. FOR ADDITIONAL REQUIREMENTS REFER TO THE SPECIFICATIONS.
4. PROVIDE PRESHORE/RESHORE SHOP DRAWINGS & SEQUENCE SUBMITTAL FOR E.O.R. REVIEW & APPROVAL.

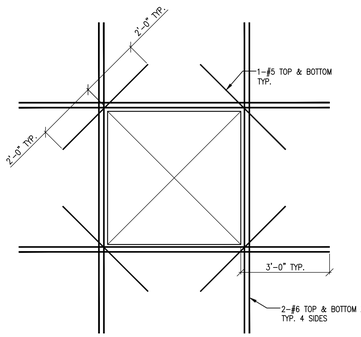
DEVELOPMENT AND LAP SPLICE LENGTH TABLE (INCHES)				
BAR SIZE	TENSION DEVELOPMENT LAP	TENSION LAP SPLICE	COMPRESSION DEVELOPMENT LENGTH	COMPRESSION LAP LENGTH
#3	13	16	8	12
#4	16	20	9	15
#5	20	25	12	19
#6	24	31	14	23
#7	34	44	16	27
#8	40	51	18	30
#9	44	57	21	34
#10	50	64	23	38
#11	55	71	26	43

NOTES:

1. USE TENSION LAP LENGTH IN ALL LAP SPLICES OF BARS, EXCEPT FOR SPLICES OF VERTICAL COLUMN BARS.
2. THE SPLICES OF VERTICAL COLUMN BARS SHALL BE COMPRESSION LAP SPLICES, EXCEPT AS INDICATED ON SPECIFIC DETAILS AS TENSION LAP SPLICES.
3. USE TENSION AND COMPRESSION DEVELOPMENT LENGTHS AT LOCATIONS AS INDICATED ON THE DRAWINGS.
4. FOR EPOXY COATED REBAR, MULTIPLY ALL LENGTHS FROM TABLE BY 1.5

NOTES:

1. FOR REBAR SIZES AND SPACING NOT SHOWN ON SECTIONS, SEE PLANS.
2. FOR BEAM REINFORCING NOT SHOWN, SEE PLANS
3. FOR TRANSFER GIRDER REINFORCING NOT SHOWN, SEE PLANS
4. T.S.L. = TENSION LAP SPLICE LENGTH, SEE TABLE ON DWG. S302.
5. C.S.L. = COMPRESSION LAP SPLICE LENGTH, SEE TABLE ON DWG. S302.



NOTE:
PROVIDE ADD'L CORNERS BARS AT ALL SLAB OPNGS. LARGER THAN 12" IN ANY DIRECTION. THESE BARS NOT SHOWN ON PLANS.

TYP. SLAB OPNG. DETAIL

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

C S302

SLAB SCHEDULE		
LEVEL	THICKNESS	REINF.
SUBCELLAR, CELLAR, 1ST FLOOR	10"	#6@10"o.c. T&B E.W. U.O.N.
2ND – 8TH FLOOR, MECH ROOF	9"	#6@10"o.c. T&B E.W. U.O.N.
9TH FLOOR	9"/16"/24"	SEE PLANS
BULKHEAD ROOF	6"	#6@10"o.c. T&B E.W. U.O.N.

*SEE PLANS & DETAILS FOR ADDN. BARS

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Shauqat Shaikh
NYC Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
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TYPICAL REINF. CONC. FLOOR DETAILS

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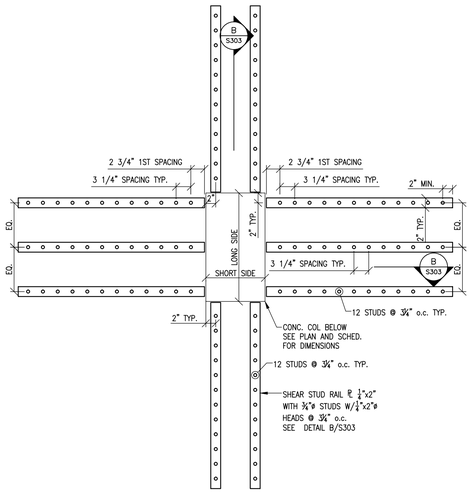
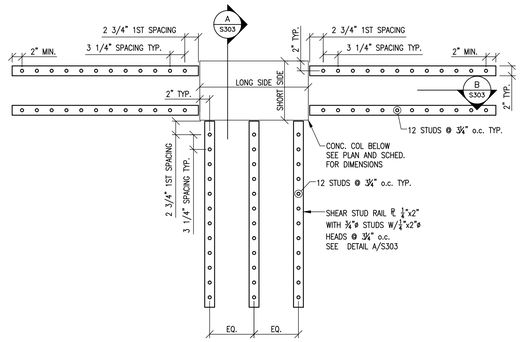


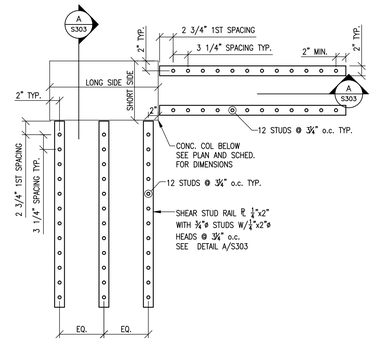
NOTE:
3 STUD RAILS PERP. TO LONG SIDE
2 STUD RAILS PERP. TO SHORT SIDE.
SEE PLAN FOR LOCATION OF STUD RAILS

TYP SHEAR STUD RAILS DETAIL @ INTERIOR COLUMN
SCALE: 1"=1'-0"
1 S303



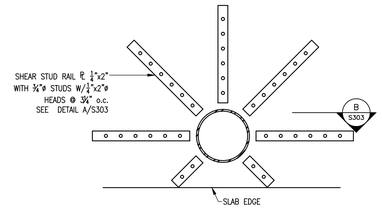
NOTE:
3 STUD RAILS PERP. TO LONG SIDE
2 STUD RAILS PERP. TO SHORT SIDE.
SEE PLAN FOR LOCATION OF STUD RAILS

TYP SHEAR STUD RAILS DETAIL @ EDGE COLUMN
SCALE: 1"=1'-0"
2 S303



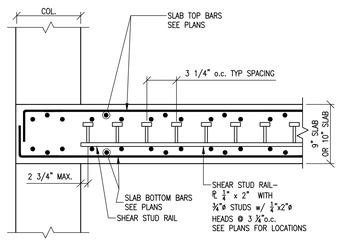
NOTE:
3 STUD RAILS PERP. TO LONG SIDE
2 STUD RAILS PERP. TO SHORT SIDE.
SEE PLAN FOR LOCATION OF STUD RAILS

TYP SHEAR STUD RAILS DETAIL @ CORNER COLUMN
SCALE: 1"=1'-0"
3 S303

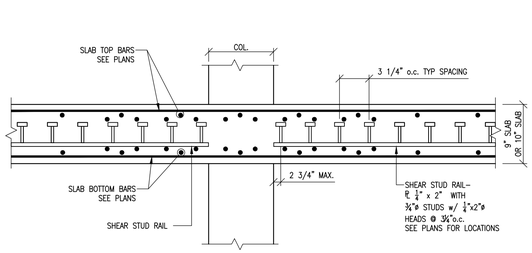


TYP SHEAR STUD RAILS DETAIL @ 10"ø ROUN COLUMN.
SCALE: 1"=1'-0"
5 S303

NOTE:
SEE PLANS FOR LOCATIONS WHERE SHEAR STUD RAILS ARE REQUIRED



TYP. SHEAR STUD RAIL SECTION
@ EDGE/ CORNER COLUMNS
SCALE: 1"=1'-0"
A S303



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@ INTERIOR EDGE COLUMNS
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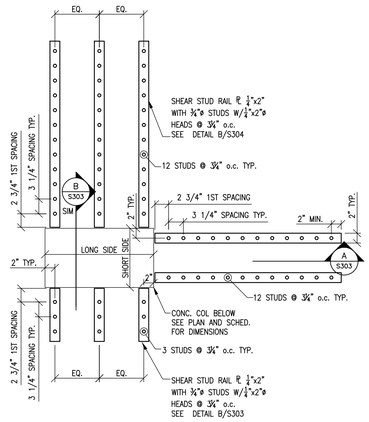
B S303



NOTE:
3 STUD RAILS PERP. TO LONG SIDE
2 STUD RAILS PERP. TO SHORT SIDE.
SEE PLAN FOR LOCATION OF STUD RAILS

TYP SHEAR STUD RAILS DETAIL @ COLUMN T23
SCALE: 1"=1'-0"
4 S303

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
03.03.14		Issue For DOB
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TYP SHEAR STUD RAILS DETAILS

Project Number: 12639 12666 AEA
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Sheet: 36 of 59

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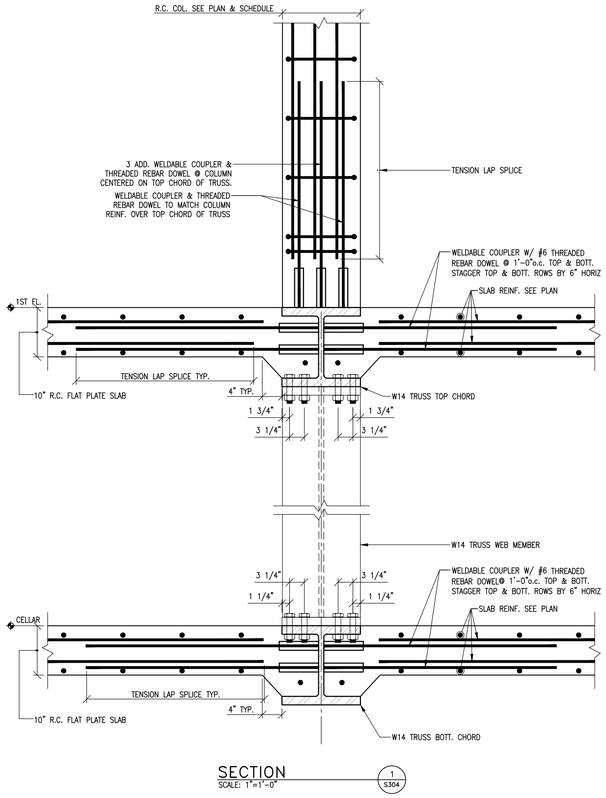

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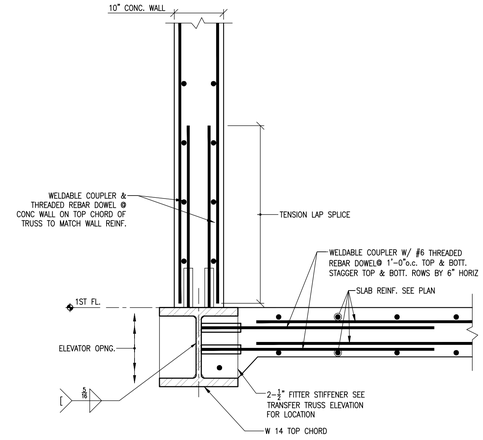

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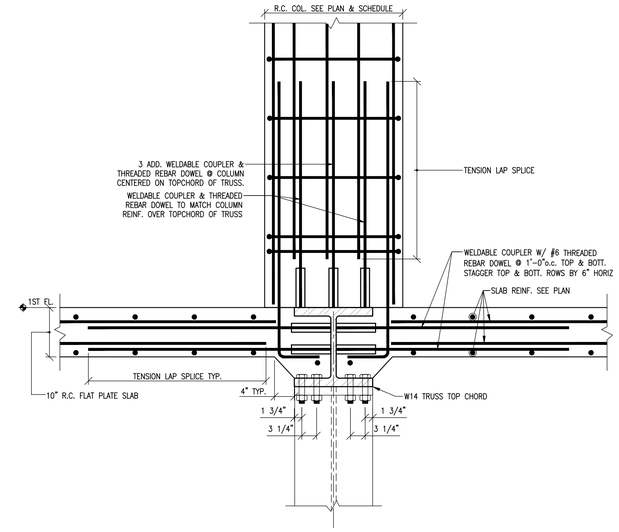

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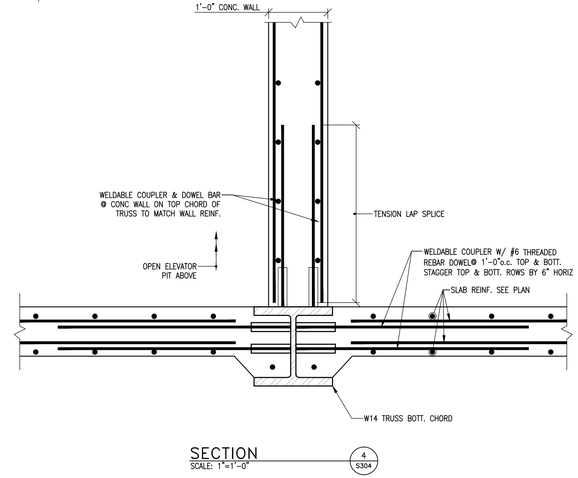
NOTES:
WELDABLE COUPLER & TREADED REBAR SPECIFICATION SHEETS & DRAWINGS TO BE SUBMITTED TO THE E.O.R. FINAL APPROBAL



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Project Number: 12639 12666 AEA
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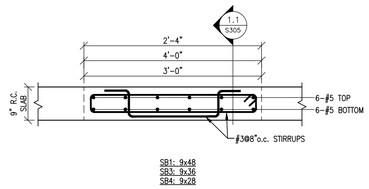

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SB3: 9x36
SB4: 9x28

SLAB BM SECTION 1 S305
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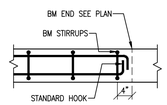

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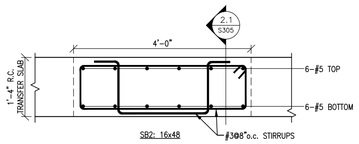

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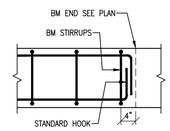

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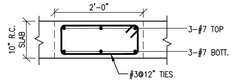

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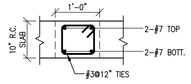

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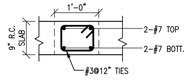

DS3: 9x12

DRAG STRUT SECTION 5 S305
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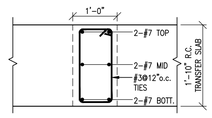

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DRAG STRUT SECTION 6 S305
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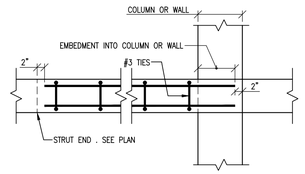

TYP. DRAG STRUT END DTL 7 S305
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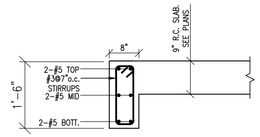

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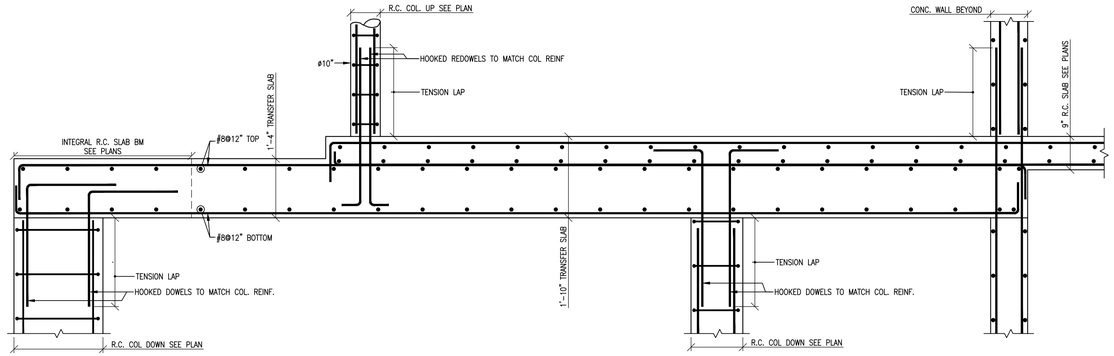

TYPICAL LEVEL 9 TRANSFER SLAB SECTION 11 S305
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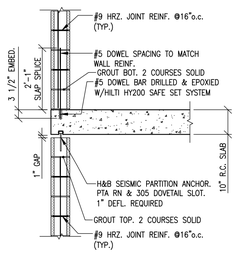

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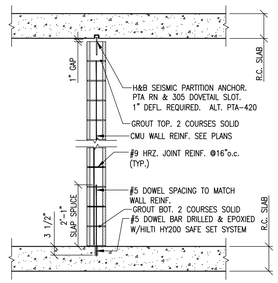

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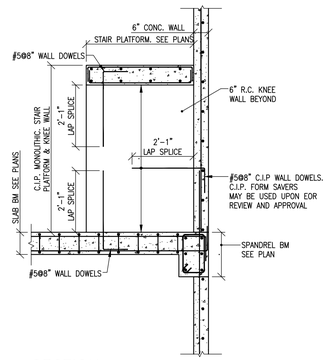

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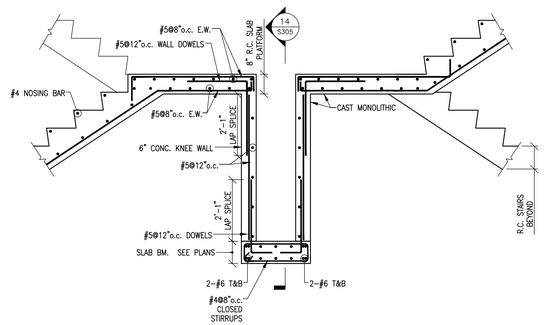

SECTION 15 S305
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Shauqat Shaikh
NYC Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
03.03.14		Issue For DOB
01.31.14		Guaranteed Max Price
01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:
TYPICAL SECTIONS AT SUPERSTRUCTURE I

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal: STATE OF NEW YORK, SHAUQAT ANJUM SHAIKH, No. 092989, LICENSED PROFESSIONAL ENGINEER

Sheet Number:
S-305.00

Sheet: 38 of 59

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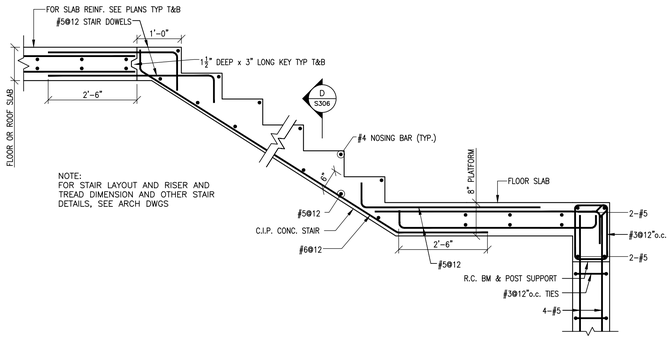
Opp. Ex. 1001 Page 118 of 205

DEPT OF BLDGS 215329919 Job Number
ES5895122676 Scan Code



TYP STAIR SECTION
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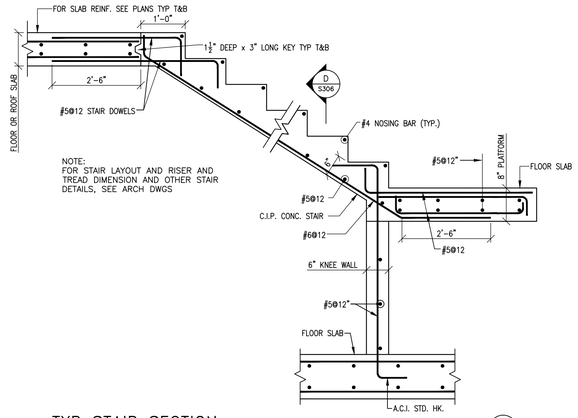
A S306



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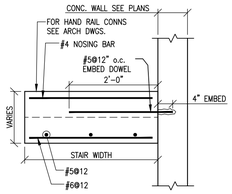

SECTION
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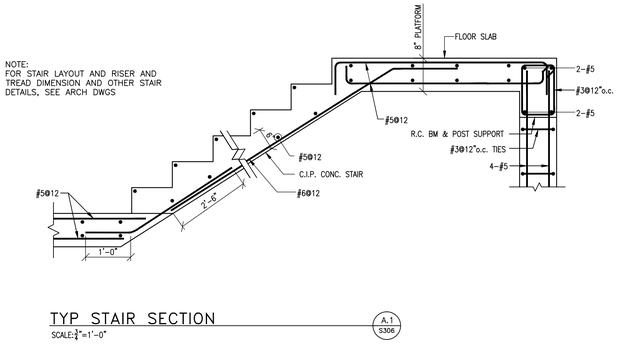

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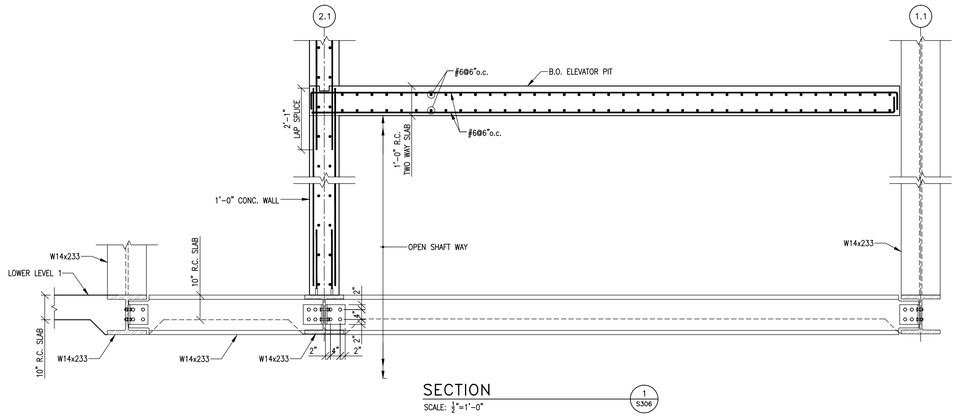
A.1 S306



SECTION
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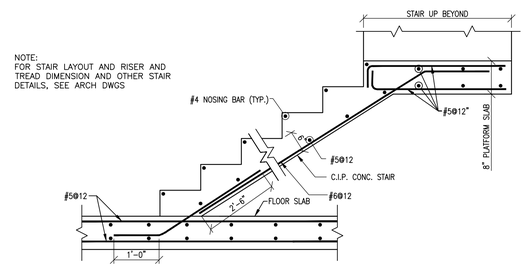

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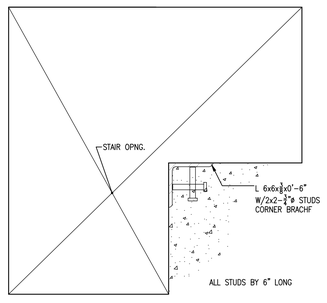
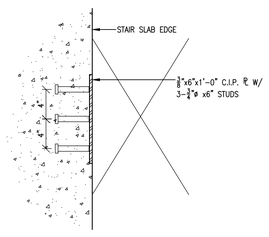


SECTION
SCALE: 1 ½"=1'-0"
2 S306



SECTION
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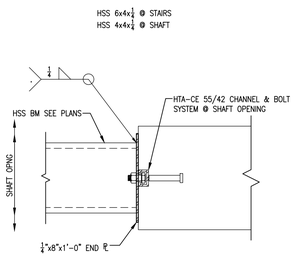
3 S306



SECTION
SCALE: 1 ½"=1'-0"
4 S306

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Shauqat Shaikh
NYC Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

03.03.14		Issue For DOB
01.31.14		Guaranteed Max Price
01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set
Date:	*No.:*	*Description:*

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:
TYPICAL SECTIONS AT SUPERSTRUCTURE II

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal: STATE OF NEW YORK, ANGELO CATALANO, No. 060266, LICENSED PROFESSIONAL ENGINEER

Sheet Number:
S-306.00
Sheet: 39 of 59

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COLUMN SCHEDULE

FLOOR \ COLUMN ID	1	2	3	5	6	T6	7	8	9	10	T12
LEVEL 11											
BULKHEAD LEVEL 10			19 2 21 C3 12x24 6-#6 #3@12"	13 3 16 C5 12x18 6-#6 #3@12"							
MECHANICAL FLOOR LEVEL 9			80 16 96 C3 12x24 6-#7 #3@5"	29 6 35 C5 12x18 6-#6 #3@12"	10 3 13 C6 12x28 8-#6 #3@12	8 2 10 CT6 12x18 6-#6 #3@12"					
LEVEL 8			125 26 151 C3 12x24 6-#6 #3@12"	46 9 55 C5 12x18 6-#6 #3@12"	34 6 40 C6 12x28 8-#6 #3@12		8 2 10 C7 16x28 12-#6 #3@12"				18 1 19 CT12A 12x24 12-#6 #3@9"
LEVEL 7			109 21 130 C3 12x24 6-#6 #3@12"	56 11 67 C5 12x18 6-#6 #3@12"	48 8 56 C6 12x28 8-#6 #3@12		25 3 28 C7 16x28 12-#6 #3@12"				19 2 21 CT12B 12x24 8-#6 #3@12"
LEVEL 6			141 25 166 C3 12x24 6-#6 #3@12"	61 11 72 C5 12x18 6-#6 #3@12"	61 10 71 C6 12x28 8-#6 #3@12		44 6 50 C7 16x28 12-#6 #3@12"				48 4 52 CT12B 12x24 8-#6 #3@12"
LEVEL 5			106 20 126 C3 12x24 6-#6 #3@12"	64 11 75 C5 12x18 6-#6 #3@12"	75 12 87 C6 12x28 8-#6 #3@12		68 9 77 C7 16x28 12-#6 #3@12"				74 9 83 CT12A 12x24 12-#6 #3@5"
LEVEL 4		13 3 16 C2 12x20 6-#6 3@12"	85 15 100 C3 12x24 6-#6 #3@12"	68 12 80 C5 12x18 6-#6 #3@12"	88 14 102 C6 12x28 8-#6 #3@12		93 13 106 C7 16x28 12-#6 #3@12"				
LEVEL 3		35 6 41 C2 12x20 6-#6 3@12"	88 16 103 C3 12x24 6-#6 #3@12"	71 12 83 C5 12x18 6-#6 #3@12"	100 16 116 C6 12x28 8-#6 #3@12		114 15 129 C7 16x28 12-#6 #3@12"				
LEVEL 2		66 14 80 C2 12x20 6-#6 3@12"	94 16 110 C3 12x24 6-#6 #3@12"	75 12 87 C5 12x18 6-#6 #3@12"	112 18 130 C6 12x28 8-#6 #3@12		130 17 147 C7 16x28 12-#6 #3@12"				
LEVEL 1	23 6 29 C1 12x18 6-#6 #3@12"	119 19 138 C2 12x20 6-#6 #3@12"	100 17 116 C3 12x24 6-#6 #3@12"	79 13 92 C5 12x18 6-#6 #3@12"	121 19 140 C6 12x28 8-#6 #3@12		161 18 179 C7 16x28 12-#6 #3@12"				
LOWER LEVEL 1	10 2 12 C1 12x18 6-#6 #3@12"	50 9 59 C2 12x20 6-#6 3@12"	66 11 76 C3 12x24 6-#6 #3@12"	50 8 58 C5 12x18 6-#6 #3@12"	78 13 91 C6 12x28 8-#6 #3@12		111 22 133 C7 16x28 12-#6 #3@12"	33 17 50 C8 W14x233	44 20 64 C9 W14x233	58 25 82 C10 W14x233	
LOWER LEVEL 2	17 3 20 C1 12x18 6-#6 #3@12"	43 7 50 C2 12x20 6-#6 3@12"	84 13 97 C3 12x24 6-#6 #3@12"	64 10 74 C5 12x18 6-#6 #3@12"	79 12 91 C6 12x28 8-#6 #3@12		83 16 99 C7 16x28 12-#6 #3@12"	379 125 504 C8 W14x233	825 213 1038 C9 W14x233	1152 288 1439 C10 W14x233	
COLUMN ID	1	2	3	5	6	T6	7	8	9	10	T12

FLOOR \ COLUMN ID	13	14	15	16	T16	17	18	19	20	21	22	23
LEVEL 11												
BULKHEAD LEVEL 10		10 3 13 C14 10x18 6-#6 #3@10"	22 8 29 C15 10x30 10-#7 #3@10"				C18 10x18 6-#6 #3@10"		C20 10x18 6-#6 #3@10"			
MECHANICAL FLOOR LEVEL 9		103 26 129 C14 10x18 6-#6 #3@10"	59 16 74 C15 10x30 10-#7 #3@10"				61 19 79 C18 10x18 6-#6 #3@10"	16 4 20 C19 10x18 6-#6 #3@10"	60 20 78 C20 10x18 6-#6 #3@10"			
LEVEL 8	30 6 36 C13 14x20 8-#6 #3@12"	116 28 144 C14 10x18 6-#7 #3@4"	83 22 105 C15 10x30 10-#8 #3@4"				60 17 76 C18 10x18 6-#6 #3@10"	45 12 57 C19 10x18 6-#6 #3@10"	72 20 91 C20 10x18 6-#6 #3@10"	141 42 183 C21B 16x24 8-#7 #3@14"		
LEVEL 7	13 2 15 C13 14x20 8-#6 #3@12"	77 19 96 C14 10x18 6-#7 #3@4"	57 15 72 C15 10x30 10-#7 #3@4"				46 13 58 C18 10x18 6-#6 #3@10"	50 14 64 C19 10x18 6-#6 #3@10"	59 16 74 C20 10x18 6-#6 #3@10"	220 56 276 C21B 16x24 8-#7 #3@14"		
LEVEL 6	55 9 64 C13 14x20 8-#6 #3@12"	68 17 85 C14 10x18 6-#6 #3@10"	46 13 58 C15 10x30 10-#7 #3@10"				50 14 64 C18 10x18 6-#6 #3@10"	49 13 62 C19 10x18 6-#6 #3@10"	63 17 80 C20 10x18 6-#6 #3@10"	293 70 363 C21B 16x24 8-#7 #3@14"		
LEVEL 5	106 22 128 C13 14x20 8-#6 #3@12"	27 8 34 C14 10x18 6-#6 #3@10"	26 5 31 C15 10x30 10-#7 #3@10"				37 11 47 C18 10x18 6-#6 #3@10"	44 12 56 C19 10x18 6-#6 #3@10"	51 14 65 C20 10x18 6-#6 #3@10"	367 84 451 C21B 16x24 8-#7 #3@14"		
LEVEL 4	205 39 244 C13 14x20 8-#6 #3@12"	22 6 27 C14 10x18 6-#6 #3@10"	61 13 74 C15 10x30 10-#7 #3@10"		107 24 131 CT16 14x20 8-#8 #3@6"		21 7 28 C18 10x18 6-#6 #3@10"	38 10 48 C19 10x18 6-#6 #3@10"	52 13 65 C20 10x18 6-#6 #3@10"	442 99 541 C21B 16x24 8-#7 #3@14"		141 30 171 C23B 14x20 8-#8 #3@6"
LEVEL 3	252 51 303 C13 14x20 8-#6 #3@12"	32 9 41 C14 10x18 6-#6 #3@10"	110 25 135 C15 10x30 10-#7 #3@10"		150 30 180 CT16 14x20 8-#6 #3@6"		11 4 14 C18 10x18 6-#6 #3@10"	32 8 40 C19 10x18 6-#6 #3@10"	58 14 72 C20 10x18 6-#6 #3@10"	514 114 628 C21B 16x24 8-#7 #3@14"		206 40 246 C23B 14x20 8-#8 #3@6"
LEVEL 2	308 65 373 C13 14x20 8-#6 #3@12"	40 11 51 C14 10x18 6-#6 #3@10"	232 54 256 C15 10x30 10-#7 #3@10"		194 37 229 CT16 14x20 8-#6 #3@12"		13 2 15 C18 10x18 6-#6 #3@10"	25 6 30 C19 10x18 6-#6 #3@10"	49 11 60 C20 10x18 6-#6 #3@10"	610 131 741 C21B 16x24 8-#7 #3@14"		269 59 328 C23B 14x20 8-#6 #3@12"
LEVEL 1	374 81 455 C13 14x20 8-#6 #3@12"	18 7 25 C14 10x18 6-#6 #3@10"	308 71 378 C15 10x30 10-#7 #3@10"			269 54 322 C17 14x20 6-#7 #3@12"	24 4 27 C18 10x18 6-#6 #3@10"	9 3 12 C19 10x18 6-#6 #3@10"	97 17 115 C20 10x18 6-#6 #3@10"	712 149 861 C21A 18x24 8-#7 #3@14"	28 12 39 C22 12x18 6-#6 #3@12"	265 55 320 C23B 14x20 8-#6 #3@12"
LOWER LEVEL 1	9 3 12 W14x233 TRANSFER TRUSS VERT.	C14 10x18 6-#6 #3@10"	6 1 7 W14x233 TRANSFER TRUSS VERT.	9 2 11 W14x233 TRANSFER TRUSS VERT.		285 69 354 W14x233 TRANSFER TRUSS VERT.	C18 10x18 6-#6 #3@10"	C19 10x18 6-#6 #3@10"	520 110 631 W14x233 TRANSFER TRUSS VERT.	782 199 981 C21A 18x24 8-#7 #3@14"	14 5 18 C22 12x18 6-#6 #3@12"	300 73 373 C23A W14x233
LOWER LEVEL 2										838 220 1058 C21A 18x24 8-#7 #3@14"	16 4 19 C22 12x18 6-#6 #3@12"	551 158 709 C23A W14x233
COLUMN ID	13	14	15	16	T16	17	18	19	20	21	22	23

FLOOR \ COLUMN ID	T23	24	25	26	27	28	29	T29	30	31	32	33	34	35	36
LEVEL 11															
BULKHEAD LEVEL 10															
MECHANICAL FLOOR LEVEL 9															
LEVEL 8	19 9 27 CT23 12x24 16-#7 #3@5"	197 48 245 C24B 14x22 6-#7 #3@10"		110 31 141 C26B 16x28 8-#7 #3@14"				63 12 75 CT29 14x18 10-#8 #3@6"			78 26 104 C32C 10x20 6-#7 #3@9"		151 33 184 C34C 12x24 8-#7 #3@12"	58 13 71 C35 16x30 10-#7 #3@14"	
LEVEL 7	48 10 58 CT23 12x24 16-#7 #3@5"	255 62 317 C24B 14x22 6-#7 #3@12"		163 39 202 C26B 16x28 8-#7 #3@14"				96 22 118 CT29 14x18 10-#6 #3@6"			137 37 174 C32C 10x20 6-#6 #3@10"		227 47 274 C34C 12x24 8-#7 #3@12"	113 22 135 C35 16x30 10-#7 #3@14"	
LEVEL 6	71 12 82 CT23 12x24 16-#7 #3@5"	309 75 384 C24B 14x22 6-#7 #3@12"		212 47 259 C26B 16x28 8-#7 #3@14"				112 27 139 CT29 14x18 10-#6 #3@6"			139 36 175 C32C 10x20 6-#6 #3@10"		281 61 342 C34B 24x38 16-#7 #3@14"	108 20 128 C35 16x30 10-#7 #3@14"	
LEVEL 5	96 13 108 CT23 12x24 16-#7 #3@5"	282 66 348 C24B 14x22 6-#7 #3@12"		263 56 319 C26B 16x28 8-#7 #4@14"	71 18 88 C27 10x24 6-#6 #3@10"	50 13 63 C28 10x24 6-#6 #3@10"		111 28 138 CT29 14x18 10-#6 #3@6"			79 20 99 C32B 10x42 14-#6 #3@10"	12 2 14 C33 10x18 6-#6 #3@10"	64 13 77 C34A 12x24 6-#7 #3@12"	98 16 114 C35 16x30 10-#7 #3@14"	25 5 30 C36 12x18 6-#8 #3@5"
LEVEL 4		336 73 409 C24B 14x22 6-#7 #3@12"		312 64 376 C26B 16x28 8-#7 #3@14"	63 14 76 C27 10x24 6-#6 #3@10"	35 7 42 C28 10x24 6-#6 #3@10"		116 31 146 CT29 14x18 10-#6 #3@12"		10 2 12 C31 12x24 6-#7 #3@12"	31 7 38 C32A 10x18 6-#6 #3@10"	20 4 24 C33 10x18 6-#6 #3@10"	47 9 56 C34A 12x24 6-#7 #3@12"	98 15 113 C35 16x30 10-#7 #3@14"	40 7 47 C36 12x18 6-#6 #3@12"
LEVEL 3		338 74 412 C24B 14x22 6-#7 #3@12"		361 73 434 C26B 16x28 8-#7 #3@14"	55 11 65 C27 10x24 6-#6 #3@10"	45 9 54 C28 10x24 6-#6 #3@10"		118 33 151 CT29 14x18 10-#6 #3@12"		29 4 33 C31 12x24 6-#7 #3@12"	42 8 50 C32A 10x18 6-#6 #3@10"	28 5 33 C33 10x18 6-#6 #3@10"	55 10 65 C34A 12x24 6-#7 #3@12"	102 14 116 C35 16x30 10-#7 #3@14"	53 9 62 C36 12x18 6-#6 #3@12"
LEVEL 2		351 79 430 C24B 14x22 6-#7 #3@12"		410 82 492 C26B 16x28 8-#7 #3@14"	35 6 41 C27 10x24 6-#6 #3@10"	34 6 40 C28 10x24 6-#6 #3@10"		121 36 156 CT29 14x18 10-#8 #3@6"		48 6 54 C31 12x24 6-#7 #3@12"	62 11 73 C32A 10x18 6-#6 #3@10"	48 8 56 C33 10x18 6-#6 #3@10"	66 11 77 C34A 12x24 6-#7 #3@12"	102 12 114 C35 16x30 10-#7 #3@14"	67 11 78 C36 12x18 6-#6 #3@12"
LEVEL 1		377 86 463 C24B 14x22 6-#7 #3@12"		464 91 555 C26A 18x28 8-#8 #3@16"	28 3 30 C27 10x24 6-#6 #3@10"	16 1 17 C28 10x24 6-#6 #3@10"	181 43 224 C29 14x18 6-#6 #3@12"		14 2 16 C30 12x18 6-#6 #3@12"	36 4 40 C31 12x24 6-#7 #3@12"	67 12 79 C32A 10x18 6-#6 #3@10"	49 9 58 C33 10x18 6-#6 #3@10"	69 11 80 C34A 12x24 6-#7 #3@12"	112 12 124 C35 16x30 10-#7 #3@14"	76 13 89 C36 12x18 6-#6 #3@12"
LOWER LEVEL 1		416 107 523 C24A W14x233	79 33 111 C25 W14x233	519 144 663 C26A 18x28 8-#8 #3@16"	64 13 77 C27 10x24 6-#6 #3@10"	33 5 38 C28 10x24 6-#6 #3@10"	192 52 244 C29 14x18 6-#6 #3@12"		7 1 8 C30 12x18 6-#6 #3@12"	26 3 29 C31 12x24 6-#7 #3@12"	54 9 63 C32A 10x18 6-#6 #3@10"	42 7 49 C33 10x18 6-#6 #3@10"	62 10 72 C34A 12x24 6-#7 #3@12"	131 29 160 C35 16x30 10-#7 #3@14"	49 8 57 C36 12x18 6-#6 #3@12"
LOWER LEVEL 2		853 241 1094 C24A W14x233	588 173 761 C25 W14x233	573 165 738 C26A 18x28 8-#8 #3@16"	176 33 209 C27 10x24 6-#6 #3@10"	51 10 61 C28 10x24 6-#6 #3@10"	198 55 253 C29 14x18 6-#6 #3@12"		29 4 33 C30 12x18 6-#6 #3@12"	60 9 69 C31 12x24 6-#7 #3@12"	55 8 63 C32A 10x18 6-#6 #3@10"	41 6 47 C33 10x18 6-#6 #3@10"	66 10 76 C34A 12x24 6-#7 #3@12"	151 34 158 C35 16x30 10-#7 #3@14"	50 8 58 C36 12x18 6-#6 #3@12"
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TYPE
SIZE
LONG. BARS: QNTY & SIZE
TIE SIZE & SPACING

DEPT OF BLDGS 121328919 Job Number
ES487354383 Scan Code

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Shauqat Shaikh
NYC Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
03.03.14		Issue For DOB
01.31.14		Guaranteed Max Price
01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
8 West 70th St

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Sheet Title:
COLUMN SCHEDULE I

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal:
STATE OF NEW YORK · CHRIS ANASTOS · LICENSED PROFESSIONAL ENGINEER · No. 052369

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Sheet: 40 of 59

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COLUMN SCHEDULE

FLOOR \ COLUMN ID	38	39	40	41	42	43	44	45	47	48	49	50
LEVEL 11												
BULKHEAD LEVEL 10												C50 8x24 6-#8 #3@8"
MECHANICAL FLOOR LEVEL 9	4 3 7 C38 12x24 6-#6 #3@10"	27 10 37 C39 12x24 6-#6 #3@10"	26 14 40 C40 12x24 6-#6 #3@10"	23 13 36 C41 12x24 6-#6 #3@10"	19 6 25 C42 12x24 6-#6 #3@10"	40 19 59 C43 12x24 6-#6 #3@10"	37 19 56 C44 12x24 6-#6 #3@10"	32 11 43 C45 12x24 6-#6 #3@10"				C50 8x24 6-#8 #3@8"
LEVEL 8										57 11 68 C48C 12x20 10-#7 #3@12"	32 6 38 C49 14x20 6-#7 #3@12"	
LEVEL 7										94 16 110 C48C 12x20 10-#7 #3@12"	68 13 81 C49 14x20 6-#7 #3@12"	
LEVEL 6										116 19 135 C48B 12x44 16-#7 #3@12"	100 19 119 C49 14x20 6-#7 #3@12"	
LEVEL 5										142 23 165 C48B 12x44 16-#7 #3@12"	138 25 163 C49 14x20 6-#7 #3@12"	
LEVEL 4										59 10 69 C48A 12x20 6-#6 #3@12"	195 37 232 C49 14x20 6-#7 #3@12"	
LEVEL 3										48 8 56 C48A 12x20 6-#6 #3@12"	236 47 283 C49 14x20 6-#7 #3@12"	
LEVEL 2										57 10 67 C48A 12x20 6-#6 #3@12"	285 58 343 C49 14x20 6-#7 #3@12"	
LEVEL 1									51 26 77 C47 12x18 6-#6 #3@12"	65 11 76 C48A 12x20 6-#6 #3@12"	335 70 405 C49 14x20 6-#7 #3@12"	
LOWER LEVEL 1									19 8 27 C47 12x18 6-#6 #3@12"	49 9 58 C48A 12x20 6-#6 #3@12"	400 91 491 W14x233 TRANSFER TRUSS. VERT.	
LOWER LEVEL 2									15 5 20 C47 12x18 6-#6 #3@12"	61 9 70 C48A 12x20 6-#6 #3@12"		
COLUMN ID	38	39	40	41	42	43	44	45	47	48	49	50

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TYPE
SIZE
LONG. BARS: QNTY & SIZE
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ES3195589431 Scan Code

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
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07.01.13		80% CD Pricing Set

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Sheet Title:
COLUMN SCHEDULE II

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
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Signature & Seal: STATE OF NEW YORK — CHRIS ANGERER — No. 092098 — LICENSED PROFESSIONAL ENGINEER

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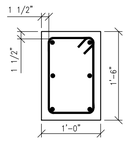
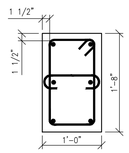
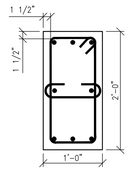
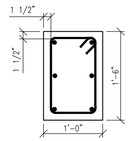
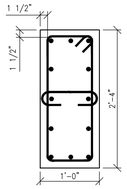
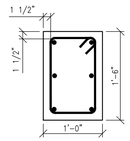
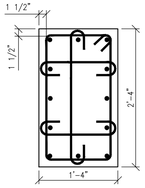
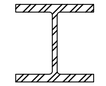
TYPICAL COLUMN SECTION

 SEE COL SCHEDULE FOR REINF. 12"x18"	 SEE COL SCHEDULE FOR REINF. 12"x20"	 SEE COL SCHEDULE FOR REINF. 12"x24"	 SEE COL SCHEDULE FOR REINF. 12"x18"	 SEE COL SCHEDULE FOR REINF. 12"x28"	 SEE COL SCHEDULE FOR REINF. 12"x18"	 SEE COL SCHEDULE FOR REINF. 16"x28"	 W14x233
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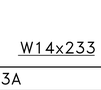
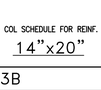
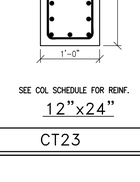
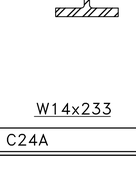
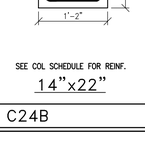
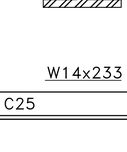
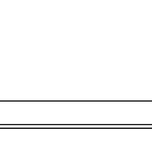
 W14x233	 W14x233	 SEE COL SCHEDULE FOR REINF. 12"x24"	 SEE COL SCHEDULE FOR REINF. 12"x24"	 SEE COL SCHEDULE FOR REINF. 14"x20"	 SEE COL SCHEDULE FOR REINF. 10"x18"	 SEE COL SCHEDULE FOR REINF. 10"x30"	 SEE COL SCHEDULE FOR REINF. 14"x20"
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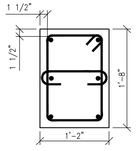
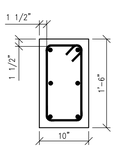
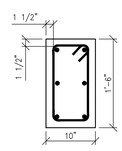
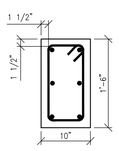
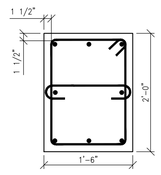
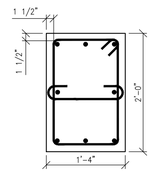
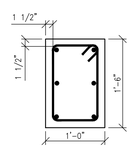
 SEE COL SCHEDULE FOR REINF. 14"x20"	 SEE COL SCHEDULE FOR REINF. 10"x18"	 SEE COL SCHEDULE FOR REINF. 10"x18"	 SEE COL SCHEDULE FOR REINF. 10"x18"	 SEE COL SCHEDULE FOR REINF. 18"x24"	 SEE COL SCHEDULE FOR REINF. 16"x24"	 SEE COL SCHEDULE FOR REINF. 12"x18"	
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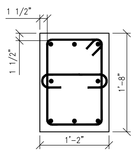
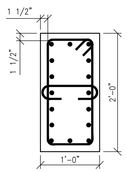
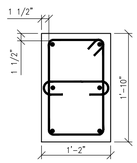
 W14x233	 SEE COL SCHEDULE FOR REINF. 14"x20"	 SEE COL SCHEDULE FOR REINF. 12"x24"	 W14x233	 SEE COL SCHEDULE FOR REINF. 14"x22"	 W14x233		
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Buildings
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Under Directive 2 of 1975
Date: 05/04/2015
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COLUMN DETAILS I

Project Number: 12639 12666 AEA
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Checked By: AC
Scale: AS NOTED
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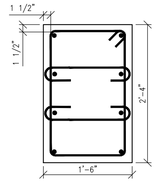
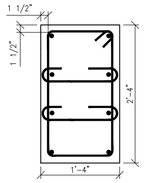
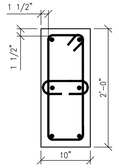
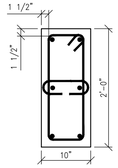
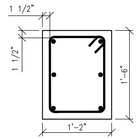
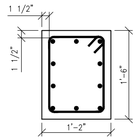
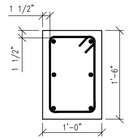
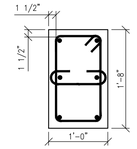
TYPICAL COLUMN SECTION

 SEE COL SCHEDULE FOR REINF. 18"x28"	 SEE COL SCHEDULE FOR REINF. 14"x28"	 SEE COL SCHEDULE FOR REINF. 10"x24"	 SEE COL SCHEDULE FOR REINF. 10"x24"	 SEE COL SCHEDULE FOR REINF. 14"x18"	 SEE COL SCHEDULE FOR REINF. 14"x18"	 SEE COL SCHEDULE FOR REINF. 12"x18"	 SEE COL SCHEDULE FOR REINF. 12"x24"
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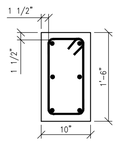
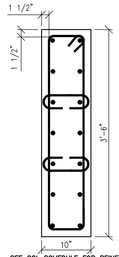
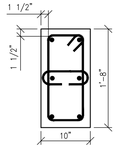
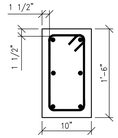
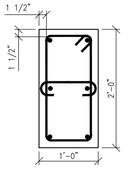
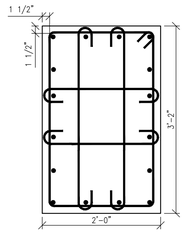
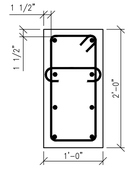
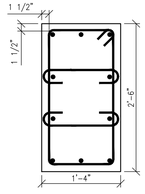
 SEE COL SCHEDULE FOR REINF. 10"x18"	 SEE COL SCHEDULE FOR REINF. 10"x42"	 SEE COL SCHEDULE FOR REINF. 10"x20"	 SEE COL SCHEDULE FOR REINF. 10"x18"	 SEE COL SCHEDULE FOR REINF. 12"x24"	 SEE COL SCHEDULE FOR REINF. 24"x38"	 SEE COL SCHEDULE FOR REINF. 12"x24"	 SEE COL SCHEDULE FOR REINF. 16"x30"
C32A	C32B	C32C	C33	C34 A	C34 B	C34 C	C35
SEE COL SCHEDULE FOR REINF. 12"x18"	 SEE COL SCHEDULE FOR REINF. 10"ø	 SEE COL SCHEDULE FOR REINF. 10"ø	 SEE COL SCHEDULE FOR REINF. 10"ø	 SEE COL SCHEDULE FOR REINF. 10"ø	 SEE COL SCHEDULE FOR REINF. 10"ø	 SEE COL SCHEDULE FOR REINF. 10"ø	 SEE COL SCHEDULE FOR REINF. 10"ø
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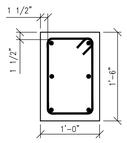
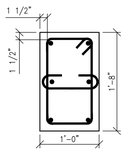
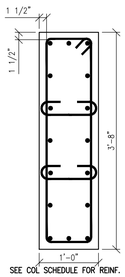
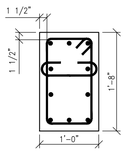
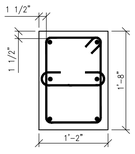
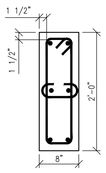
 SEE COL SCHEDULE FOR REINF. 10"ø	 SEE COL SCHEDULE FOR REINF. 12"x18"	 SEE COL SCHEDULE FOR REINF. 12"x20"	 SEE COL SCHEDULE FOR REINF. 12"x44"	 SEE COL SCHEDULE FOR REINF. 12"x20"	 SEE COL SCHEDULE FOR REINF. 14"x20"	 SEE COL SCHEDULE FOR REINF. 8"x24"	
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718.383.8510 fax

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Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
03.03.14		Issue For DOB
01.31.14		Guaranteed Max Price
01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
8 West 70th St

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Sheet Title:
COLUMN DETAILS II

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal: STATE OF NEW YORK, CHRIS ANGELO, LICENSED PROFESSIONAL ENGINEER, No. 082098

Sheet Number:
S-403.00

Sheet: 43 of 59

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Opp. Ex. 1001 Page 123 of 205

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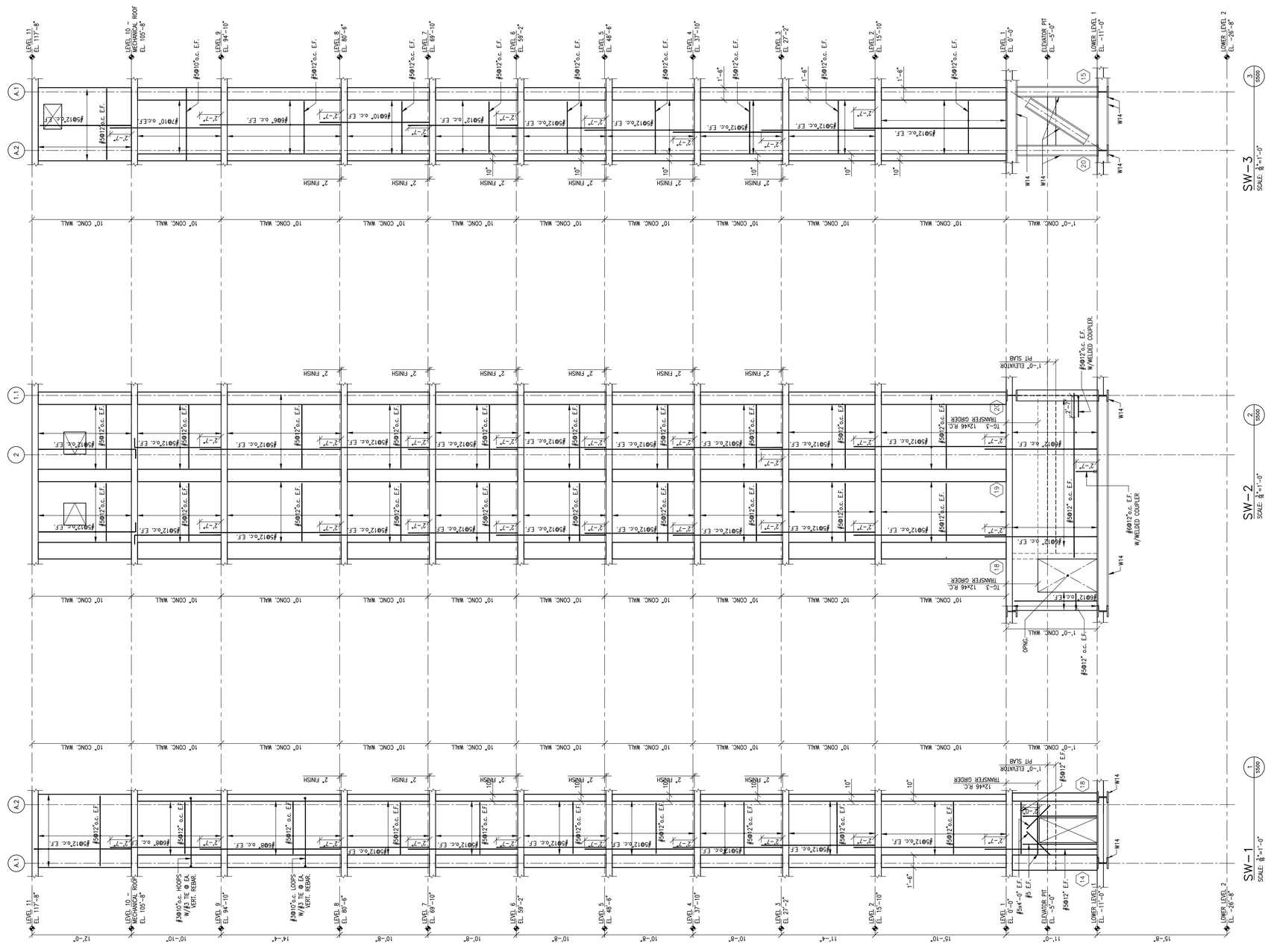

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01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

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Sheet Title:
SHEAR WALL ELEVATIONS I: SW1, SW2, SW3

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED

Signature & Seal:
STATE OF NEW YORK
ANGELOS ANNASTOS
No. 082080
REGISTERED PROFESSIONAL ENGINEER

Sheet Number:
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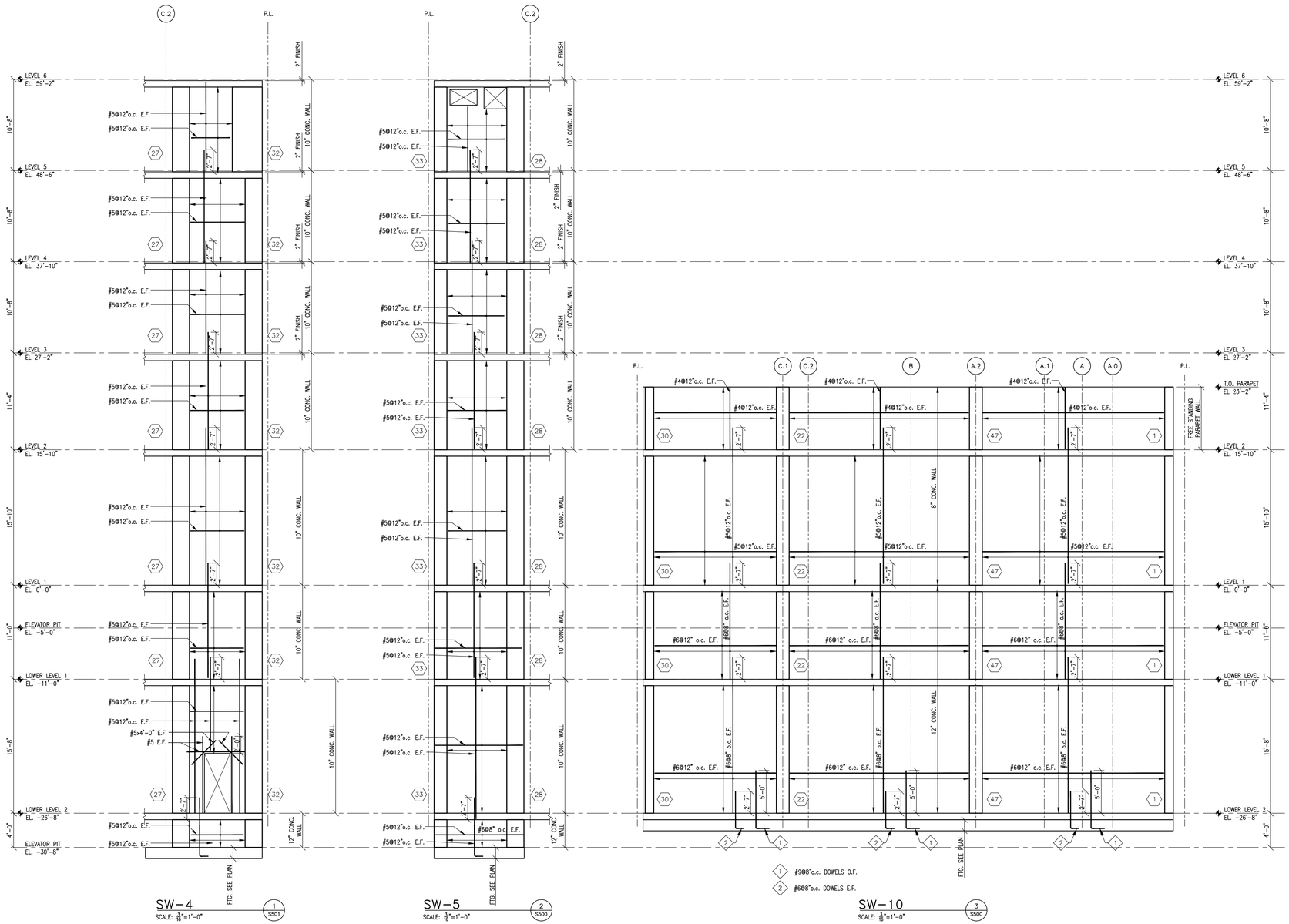

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01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

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Sheet Title:
SHEAR WALL ELEVATIONS II: SW4 & SW5

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal:
STATE OF NEW YORK · CHRIS ANASTOS · No. 052989 · LICENSED PROFESSIONAL ENGINEER

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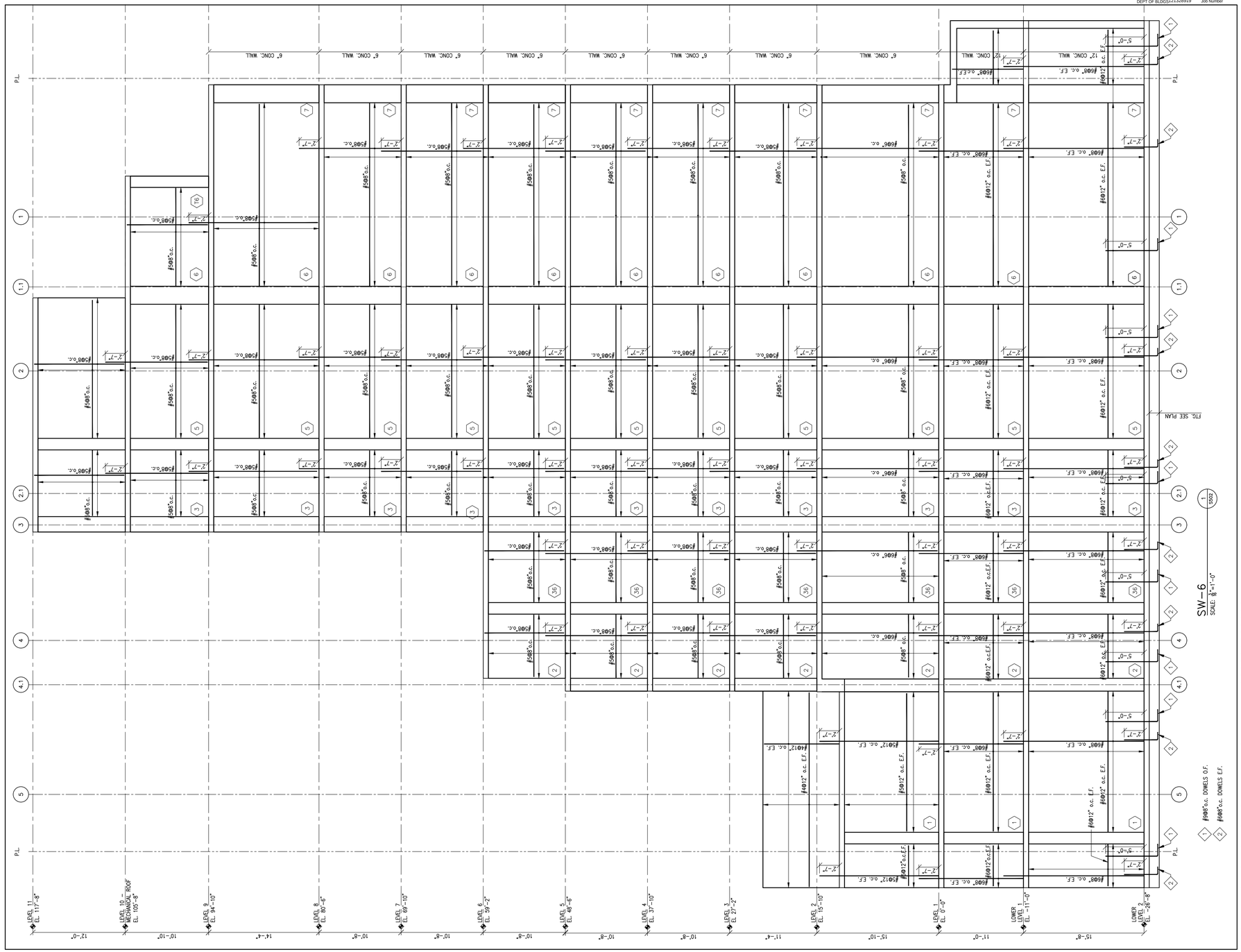

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01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

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Sheet Title:
SHEAR WALL ELEVATION III: SW6

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED

Signature & Seal:
STATE OF NEW YORK
CARLOS ANASTOU
No. 052969
LICENSED PROFESSIONAL ENGINEER

Sheet Number:
S-502.00

Sheet: 46 of 59

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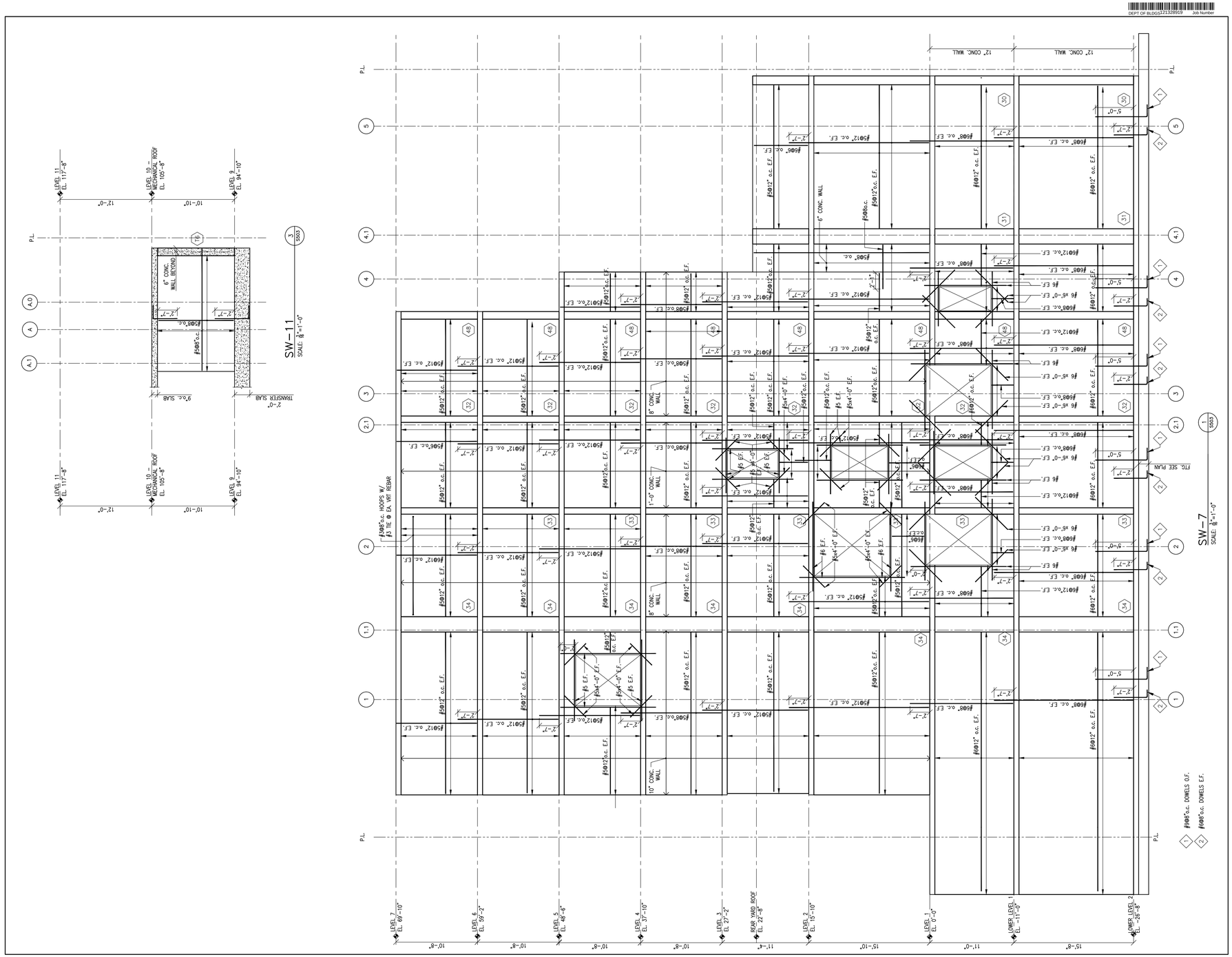

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01.06.14		Progress Set
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Sheet Title:
SHEAR WALL ELEVATION IV: SW7

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal:
STATE OF NEW YORK
CHRIS ANASTOU
No. 050369
LICENSED PROFESSIONAL ENGINEER

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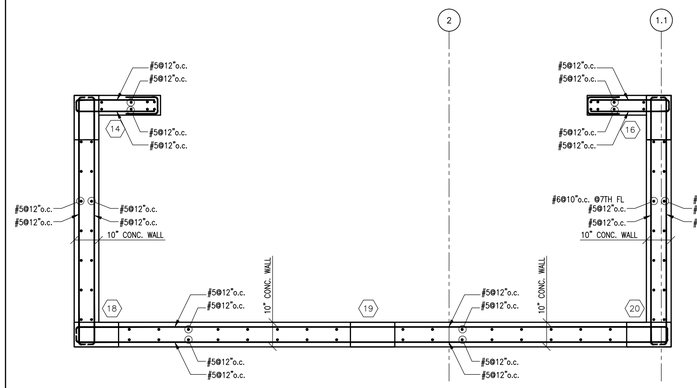

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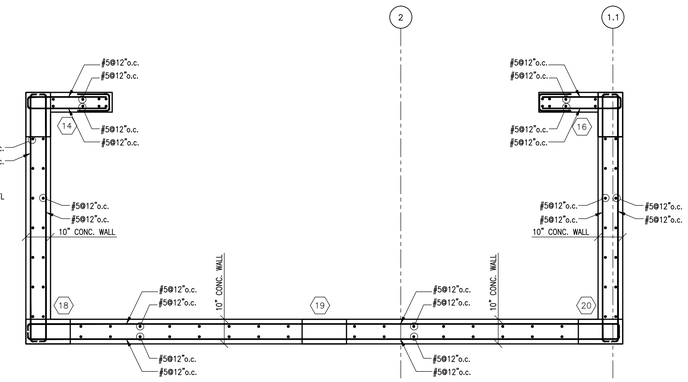

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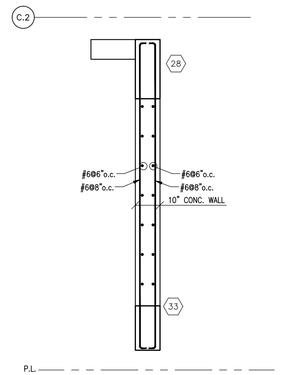

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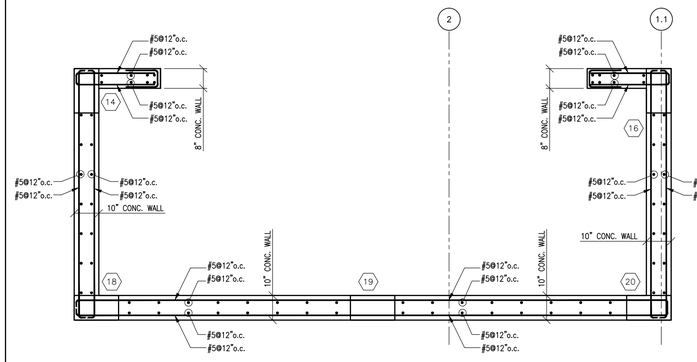

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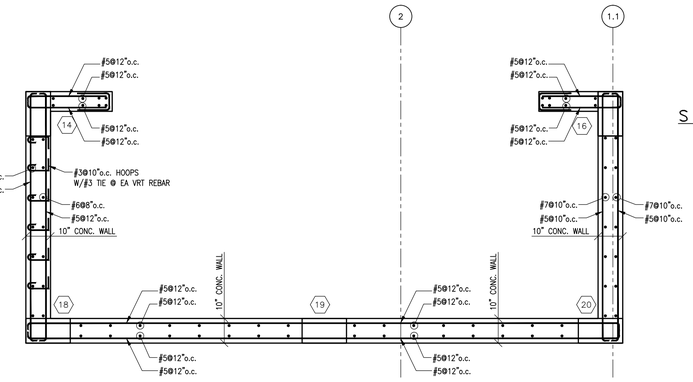

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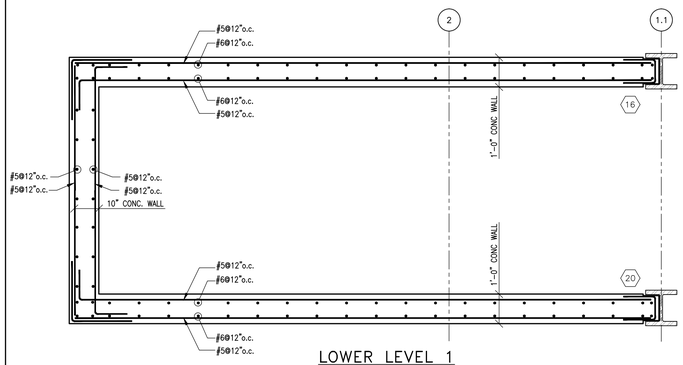

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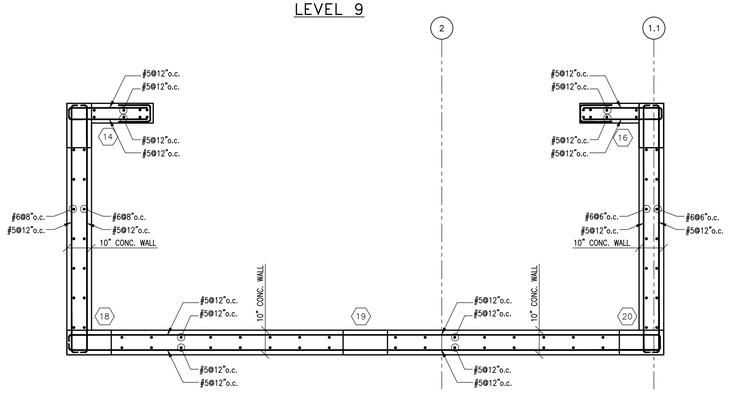

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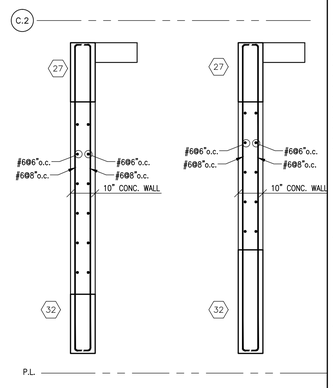

LOWER LEVEL 2 THRU LEVEL 4

LEVEL 5

S H E A R W A L L P L A N

S H E A R W A L L 4 P L A N

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APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
03.03.14		Issue For DOB
01.31.14		Guaranteed Max Price
01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:
SHEAR WALL PLAN I:
SW1, SW2, SW3
SW4 & SW5

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal: STATE OF NEW YORK, ANGELO CANDELARIA, No. 092988, LICENSED PROFESSIONAL ENGINEER

Sheet Number:
S-504.00

Sheet: 48 of 59

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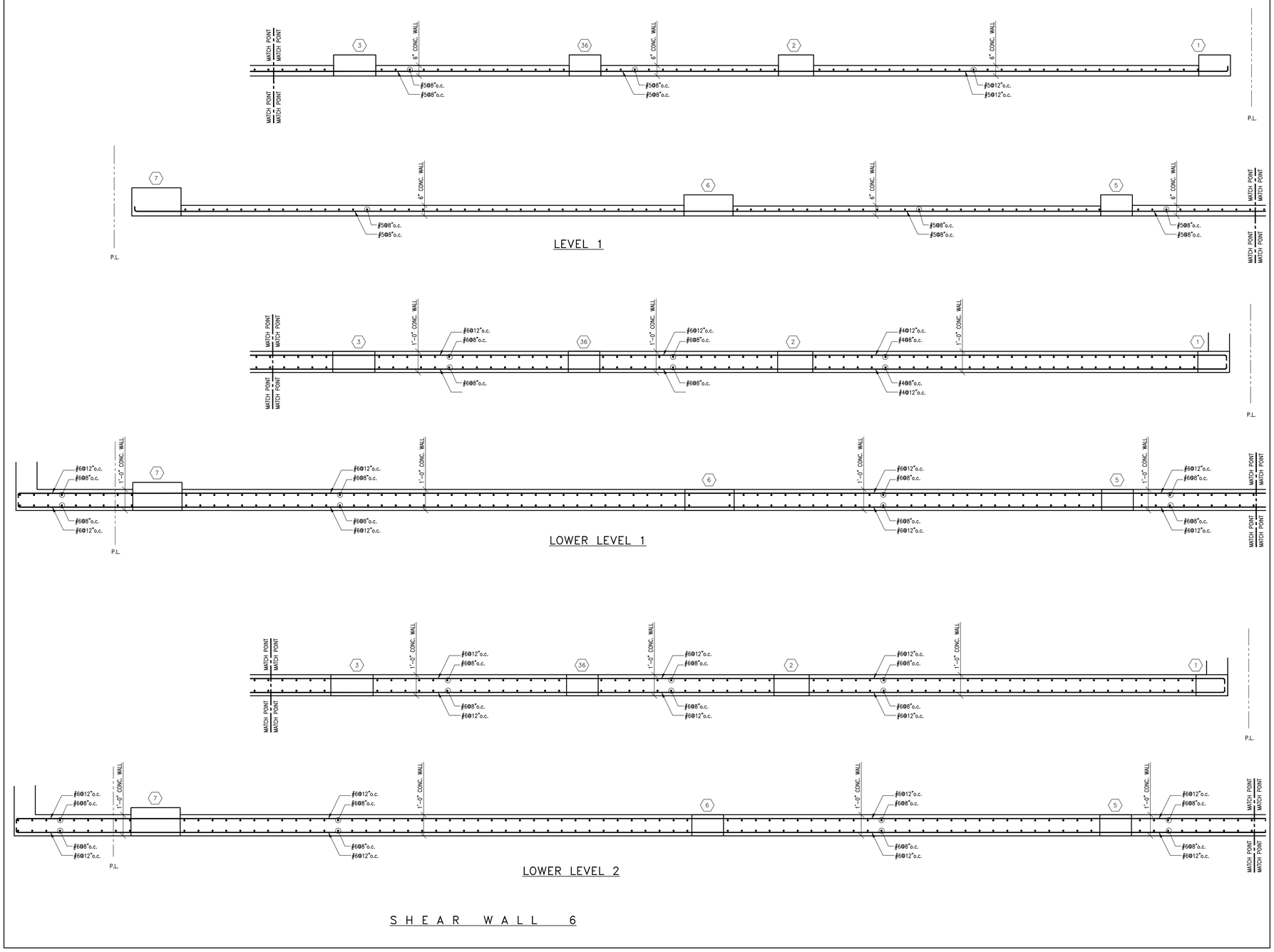
Opp. Ex. 1001 Page 128 of 205



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01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:
SHEAR WALL PLAN II: SW6

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal:
STATE OF NEW YORK
CHRIS ANASTOU
No. 050969
LICENSED PROFESSIONAL ENGINEER

Sheet Number:
S-505.00

Sheet: 49 of 59

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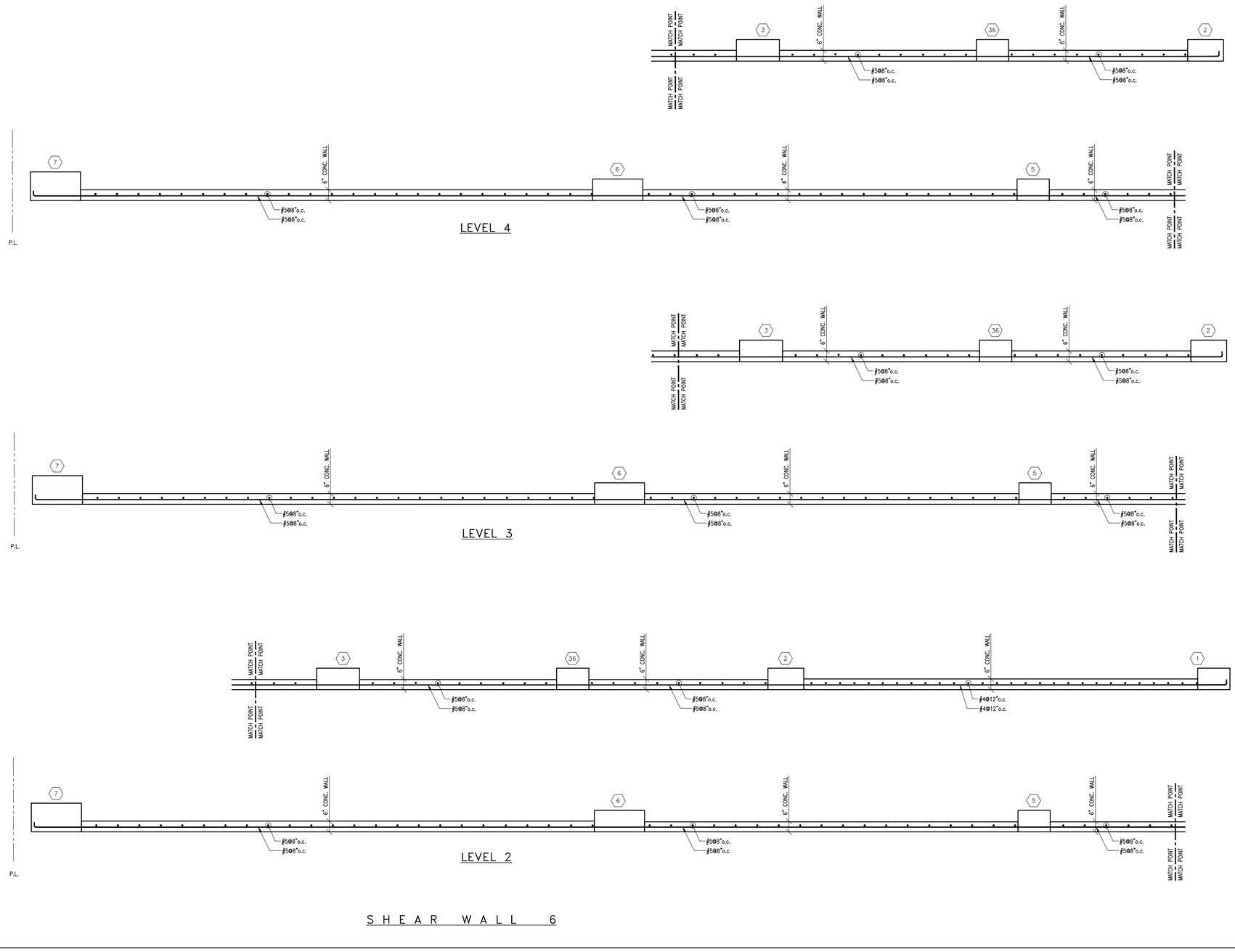

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Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
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Date:	No.:	Description:
03.03.14		Issue For DOB
01.31.14		Guaranteed Max Price
01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:
SHEAR WALL PLAN III: SW6

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal:
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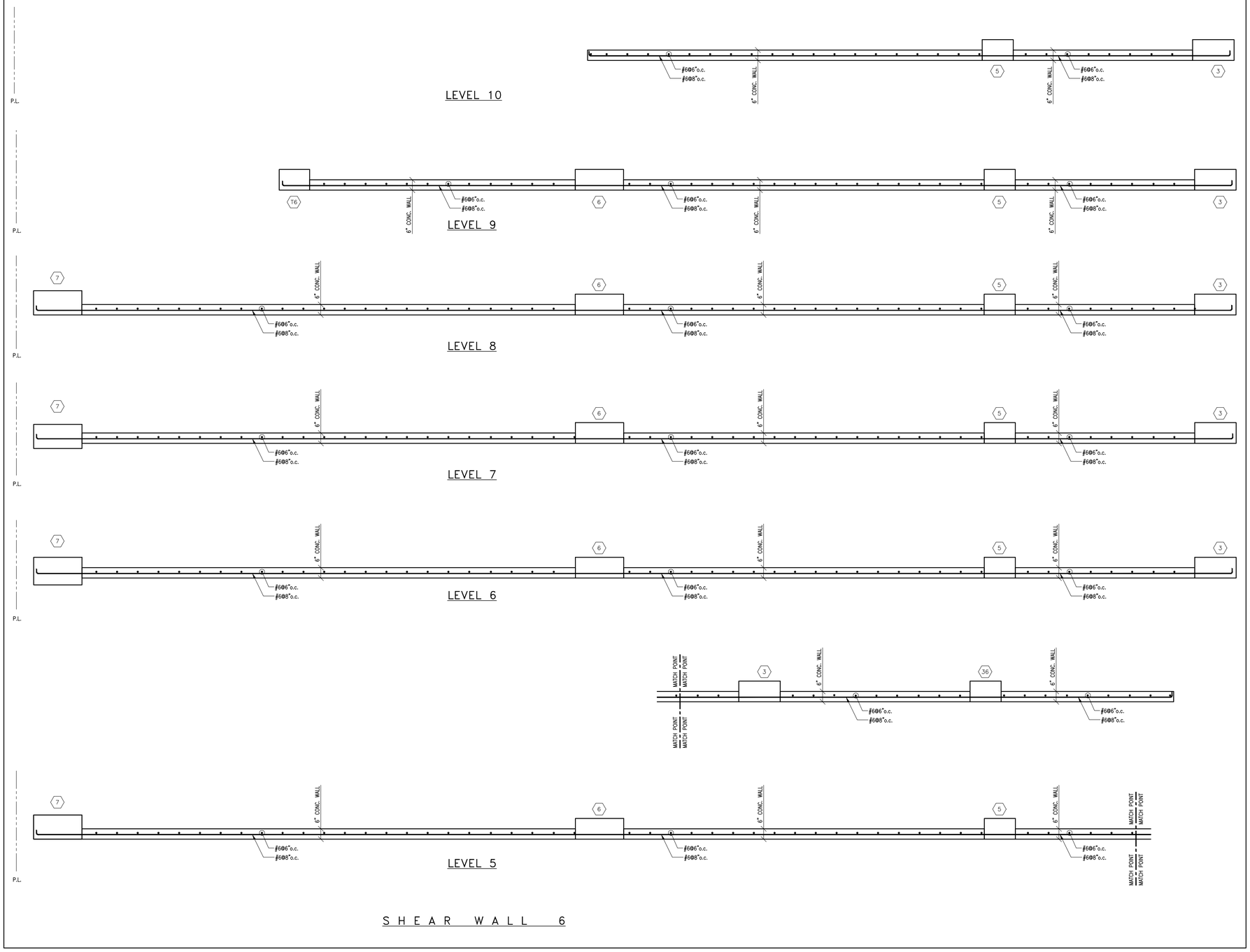

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Date:	No.:	Description:
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01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
8 West 70th St

8 West 70th Street
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Sheet Title:
SHEAR WALL PLAN IV: SW6

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal:
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Sheet Number:
S-507.00

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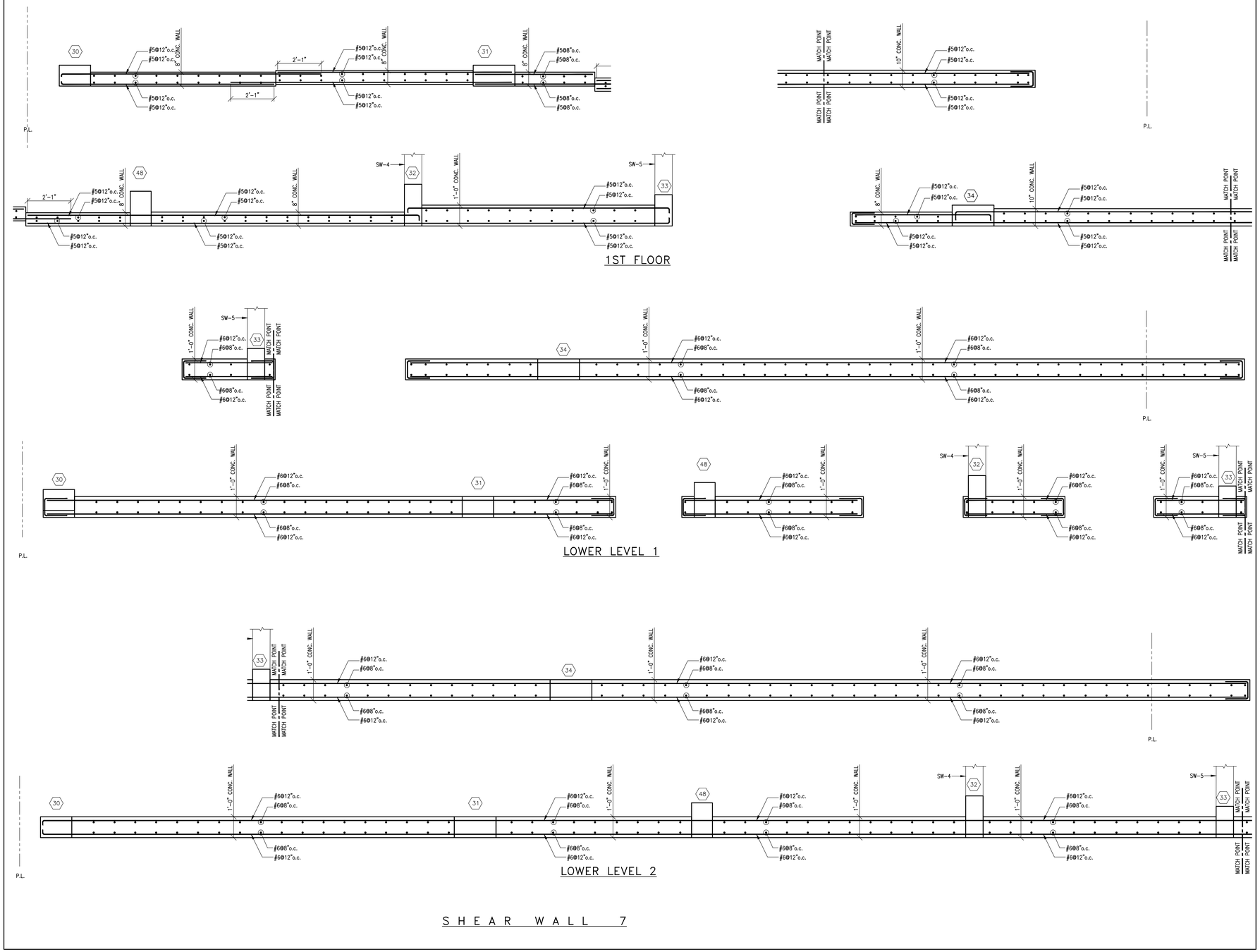

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Buildings
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Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

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01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:
SHEAR WALL PLAN V: SW7

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal: STATE OF NEW YORK ANDREW CHRISTOPHER 065098 LICENSED PROFESSIONAL ENGINEER

Sheet Number:
S-508.00

Sheet: 52 of 59

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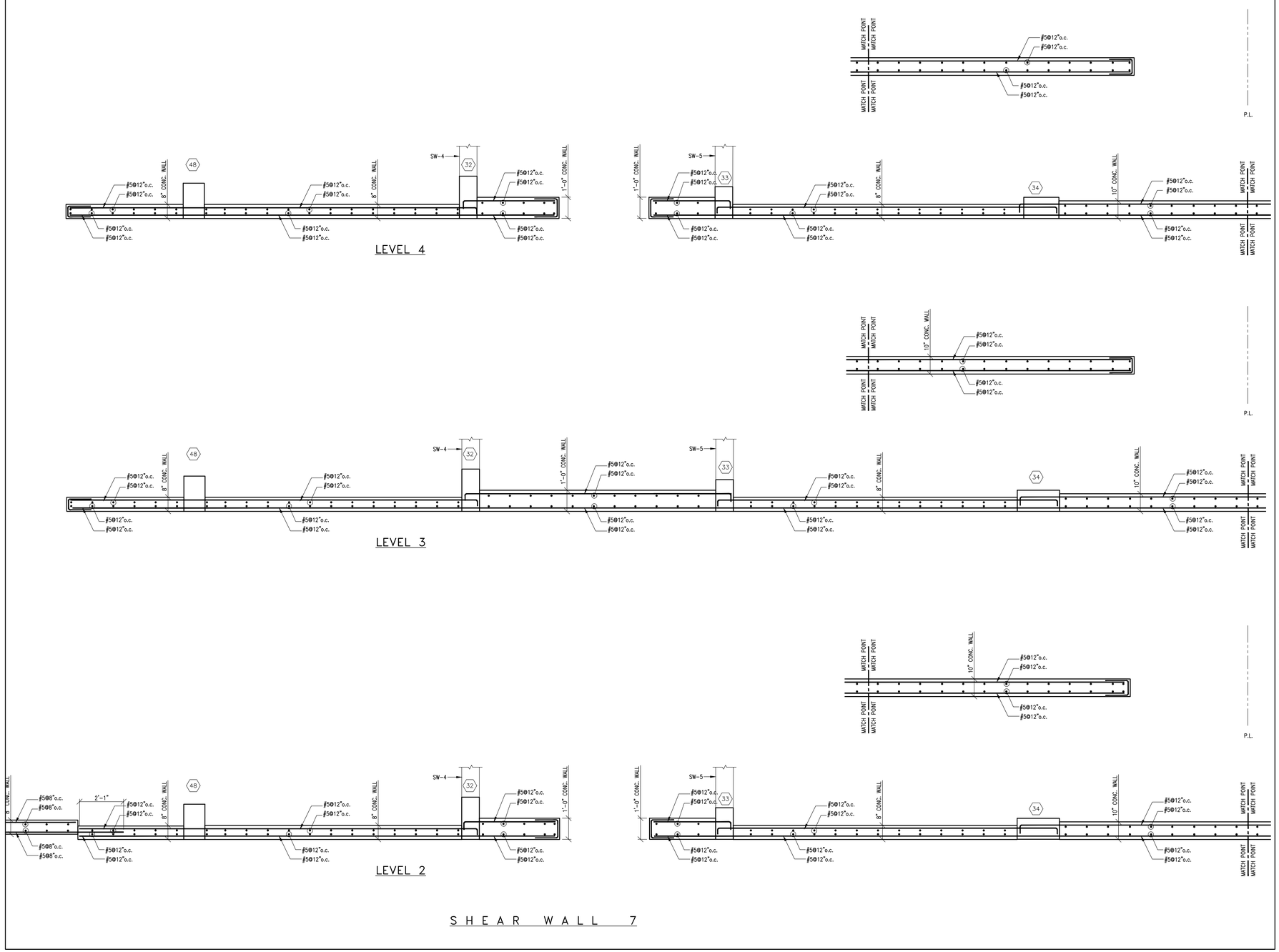

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Project:
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Sheet Title:
SHEAR WALL PLAN VI: SW7

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal:
STATE OF NEW YORK · CHRIS ANASTASI · No. 052989 · LICENSED PROFESSIONAL ENGINEER

Sheet Number:
S-509.00

Sheet: 53 of 59

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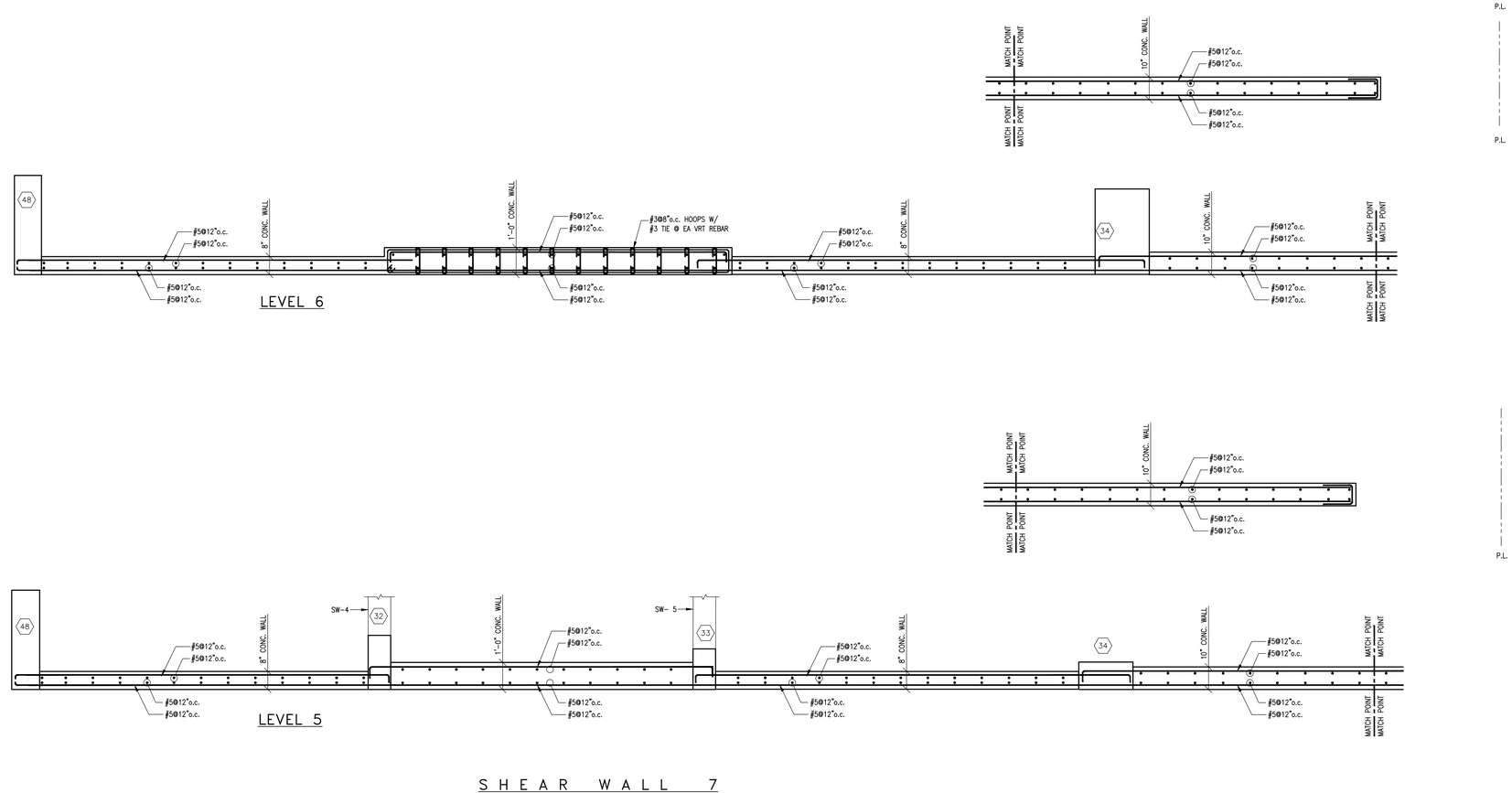

SHEAR WALL 7

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Date:	No.:	Description:
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01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
8 West 70th St

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Sheet Title:
SHEAR WALL PLAN VII: SW7

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal:
STATE OF NEW YORK
CHRIS ANASTOU
No. 050969
LICENSED PROFESSIONAL ENGINEER

Sheet Number:
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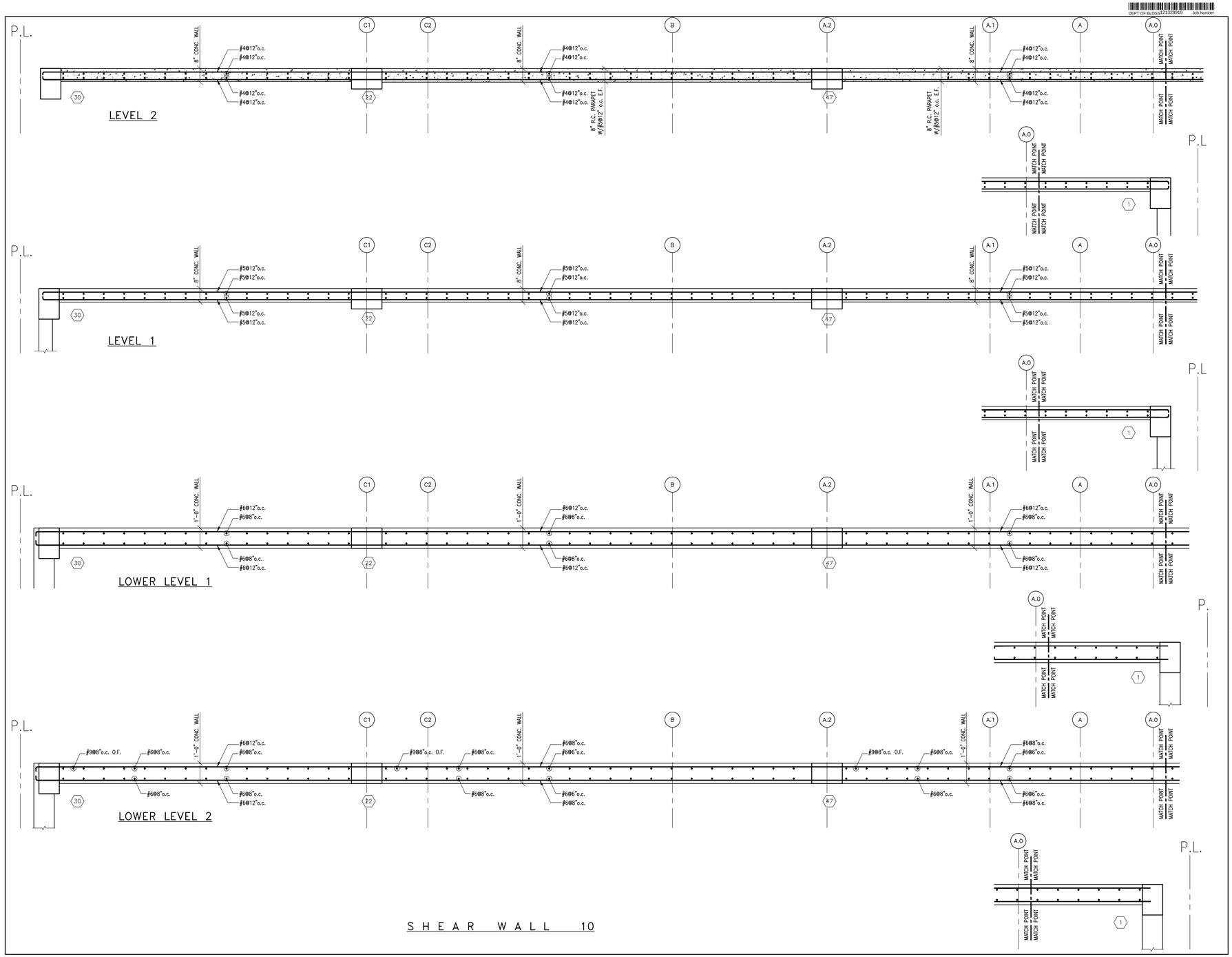

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08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
8 West 70th St

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New York, NY 10023

Sheet Title:
SHEAR WALL PLAN VIII: SW-10

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal:
STATE OF NEW YORK · CHRIS ANASTOS · No. 050989 · LICENSED PROFESSIONAL ENGINEER

Sheet Number:
S-511.00
Sheet: 54 of 59

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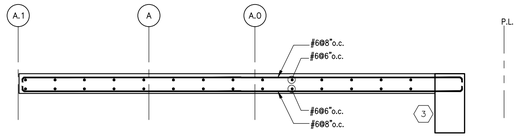
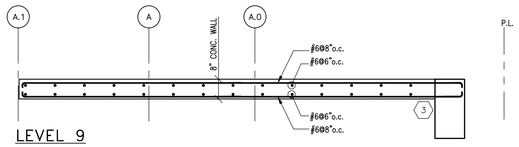
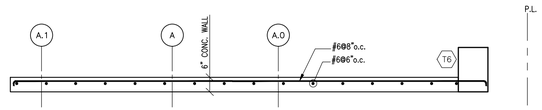


LEVEL 10 – MECHANICAL ROOF



LEVEL 9

S H E A R W A L L 8



LEVEL 9

S H E A R W A L L 11

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Project:
8 West 70th St

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Sheet Title:
SHEAR WALL PLAN IX:
SW-8 & SW-11

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED

Signature & Seal:
STATE OF NEW YORK — ANGELO CARUSO — No. 082098 — LICENSED PROFESSIONAL ENGINEER

Sheet Number:
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Sheet: 54 of 59

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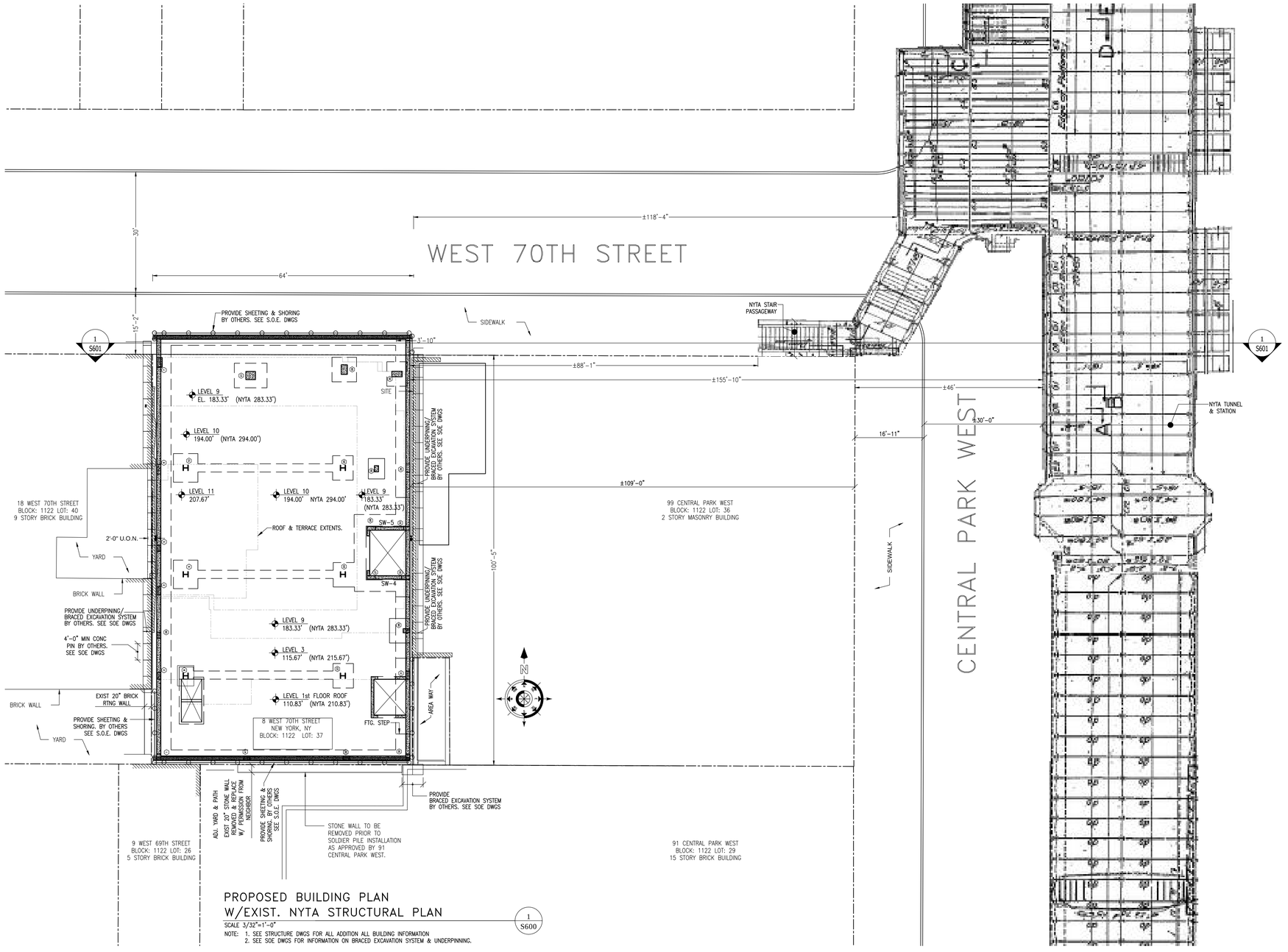

PROPOSED BUILDING PLAN
W/EXIST. NYTA STRUCTURAL PLAN

SCALE 3/32"=1'-0"

NOTE: 1. SEE STRUCTURE DWGS FOR ALL ADDITION ALL BUILDING INFORMATION
2. SEE SOE DWGS FOR INFORMATION ON BRACED EXCAVATION SYSTEM & UNDERPINNING.

DEPT OF BLDGS 121328919 Job Number

ES567314030 Scan Code

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Sheet Title:
PROPOSED BLDG & NYTA TUNNEL

Project Number: 12639 12666 AEA
Drawn By: CAD AEA
Checked By: AC
Scale: AS NOTED
Signature & Seal: STATE OF NEW YORK CHRIS ANASTASI No. 050969 LICENSED PROFESSIONAL ENGINEER

Sheet Number:
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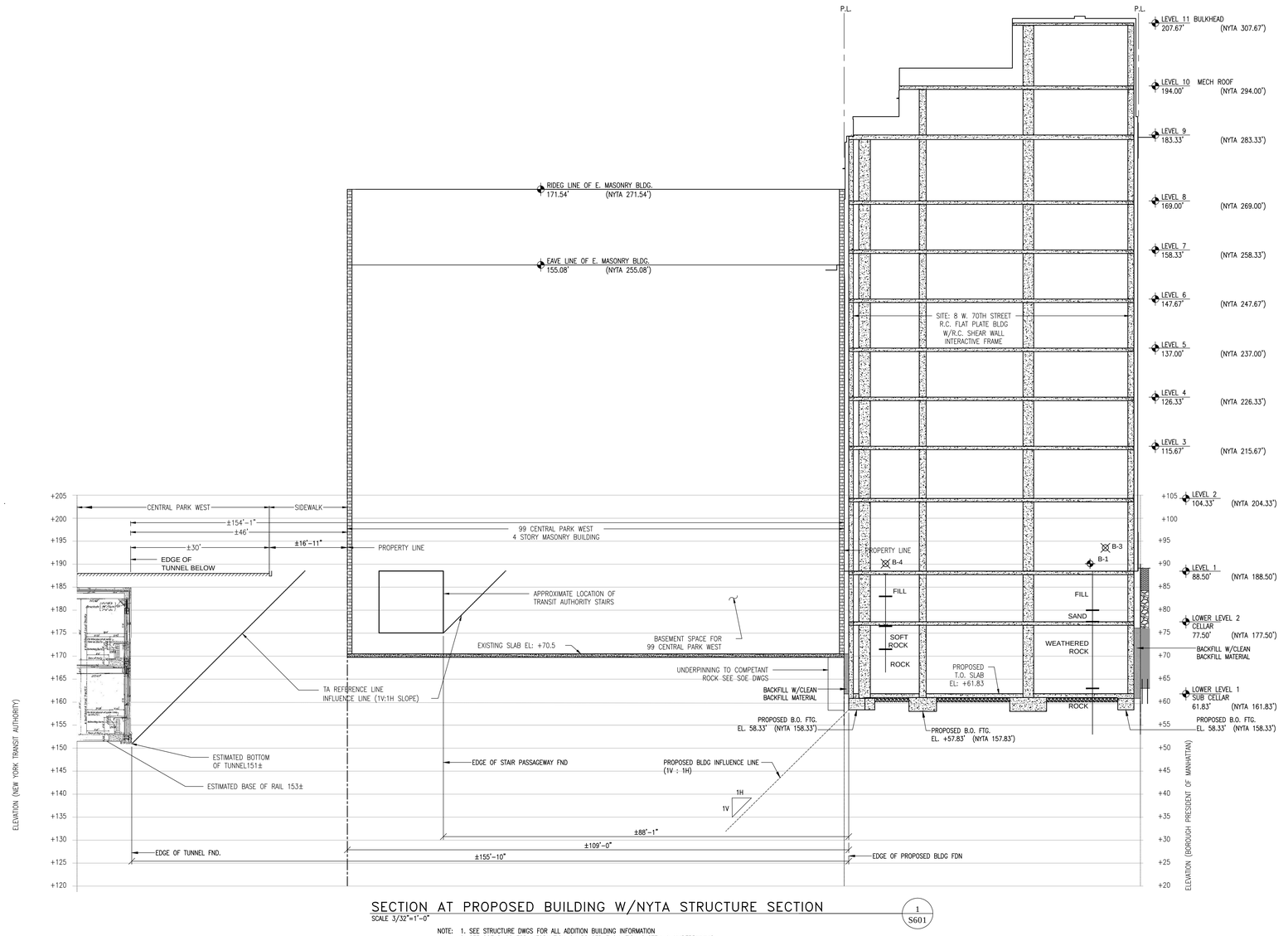

SECTION AT PROPOSED BUILDING W/NYTA STRUCTURE SECTION

SCALE 3/32"=1'-0"

1 S601

NOTE: 1. SEE STRUCTURE DWGS FOR ALL ADDITION BUILDING INFORMATION
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DEPT OF BLDGS 121328919 Job Number

ES122901113 Scan Code

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Sheet Title:
PROPOSED BLDG. & NYTA TUNNEL

Project Number: 12639 12666 AEA
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Signature & Seal: STATE OF NEW YORK CHRIS ANASTASI No. 050989 LICENSED PROFESSIONAL ENGINEER

Sheet Number:
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Sheet: 56 of 59

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NYC TRANSIT –GENERAL NOTES

Note: The appropriate notes are to be made part of the Project's Contract Drawings.

1. The NYC Transit (NYCT) reserves the right to place inspectors, flagmen or other personnel in the subway structures during construction of the project linked by a telephone system, if deemed necessary, to observe the effects of the construction on the transit facilities. It is expected that such personnel will be necessary when the construction comes within twenty–five feet of the subway structure. However, NYCT further reserves the right to place such personnel whenever, in its opinion, the project conditions warrant such placement, regardless of distance. The cost of such personnel, telephone Installation and any re–routes, diversions of service, work trains, etc., made necessary by the project, must be borne by the project or the responsible New York City/State Agency.

2. All rock excavation adjacent to the transit structure is to be channel drilled two feet below sub–grade.

3. If top of rock is found below subway structure, the subway structure must be underpinned in accordance with drawings to be submitted to NYCT for approval.

4. If rock is soft or seamy, lateral supports must be provided below the subway Structure In accordance with drawings to be submitted to NYCT for approval.

5. Blasting will be permitted only with light charges subject to the approval of NYCT's Engineer and In accordance with the regulations of the Fire Department. The Contractor shall provide a detailed monitoring plan, providing for measurements of both particle velocity and displacements at critical locations of the NYGT structure. The monitoring plan shall include threshold and upset levels of both particle velocity and settlement together with an action plan for their implementation. The contractor shall secure an approved seismologist to install and operate suitable velocity gauges to continuously monitor particle velocity and an independent licensed surveyor to monitor displacements. The threshold maximum particle velocity above ambient caused by the blasting will be 0.5 inch per second. Values exceeding this level will be reviewed and evaluated by NYCT's Engineer. In no case will particle velocities exceed the upset level of 2.0 inches per second.

6. Before placing concrete, the sub–grade of the foundations in the vicinity of the subway structure is to be inspected and approved by NYCT's Engineer.

7. If any portion of the subway structure or finish is damaged, it shall be repaired or Replaced with the same materials in place, subject to the approval of NYCT's Engineer And at the expense of the project.

8. Excavation embankments are to be shored and braced. Drawings indicating a suggested method of construction are to be submitted to NYCT for approval in conjunction with the project's contract drawings. In case of excavation undermining the subway structure, underpinning maybe required. Drawings for underpinning are to be submitted to NYCT for approval.

9. Temporary shoring may be placed in direct contact with NYCT structures only if the NYCT structure is shown to be able to support all anticipated loads that can be transferred through the temporary structures without damaging the existing structure. At the completion of the project, these temporary shoring and bracing systems are to be removed or cut–off as approved by NYCT.

10. When plies are to be driven adjacent to the subway structure, boring data, pile layouts, specifications and installation procedures are to be submitted to NYCT for approval. Velocity meters are to be installed in the Subway tunnel at critical locations to monitor induced vibrations. Induced displacements along the tunnel structure and track invert are to be monitored during driving. The threshold maximum particle velocity above ambient caused by the driving will be 0.5 inch per second. Values exceeding this level will be reviewed and evaluated by NYCT's Engineer. In no case will particle velocities exceed the upset level of 2.0 inches per second.

11. No piles are permitted to be installed by any method within three feet of subway structure measured from the edge of the pile or casing to the wall. Closed–end piles will not be permitted to be driven within ten feet of the subway structure.

12. All piles are to be placed within a preaugered cased hole to the influence line. The casing shall be cleaned without disturbing the soil outside the casing and the pile to be placed within the casing for installation. The piles may then be driven beyond the influence line within the casing.

13. The influence line shall start at the bottom of the subway structure and extend at a 1:1 slope. For piles installed within ten feet of the subway structure, the casing shall be extended up to the bottom of the subway structure.

14. At the completion of pile installation, the space between the pile and the casing is to be filled with either clean sand or grout. If the casing is to be removed, the filling must be completed prior to removal of the casing.

15. All piles are to be driven a minimum of ten feet below the intersection of the pile center line and the influence line of the subway structure.

16. The use of "down–the–hole –hammers" for installation of piles through overburden and fill will be permitted only to remove boulders. It will not be permitted as a matter of course to advance the hole. Their use to construct rock sockets will not be allowed within 5 feet of the NYCT structure.

17. Vibratory hammers will not be permitted withln 75 feet of subway structures. Hoerams will not be permitted within 25 feet of subway structures.

18. Dynamic compaction methods using dropped heavy weights cannot be conducted within 1000 feet of any NYCT structure unless it is shown that induced settlements and vibrations will not damage these structures. A suitable monitoring plan including settlement and vibration measurements must be approved by NYCT's Engineer for all such operations within these distances.

19. There shall be no machine excavation within 3 feet of NYCT structures, power duct lines, or any other facilities until they have been carefully exposed by hand excavation.

20. All dewatering operations conducted within 500 feet of the NYCT structure must be performed in accordance with drawings and procedures submitted to NYCT for approval. The distance from the structure to the de watering operation can be reduced provided that soil conditions at the site indicate that the radius of influence of the dewatering is less than 500 feet. For de watering within the radius of Influence, the dewatering program must be shown to have negligible influence on settlements of the NYCT structure.

21. Subway entrances (ventilators, etc.) are to be underpinned or shored and braced if directed by NYCT's Engineer.

22. NYCT, at its discretion, reserves the right to require the project to close or maintain and protect existing subway entrances, ventilators, etc. adjacent to the project during construction. Such construction may include underpinning, shoring, bracing and erection of suitable barricades and/or canopies and shields. Such protection shall be in accordance with drawings submitted to NYCT for approval.

23. If shields are to be installed to protect NYCT facilities and/or the public, plans showing the location, type and method of attachment to the transit structure must be submitted to NYCT for approval.

24. All lumber and plywood used for protection of subway facilities must be fire retardant.

25. Subway emergency exits must be kept clear at all times.

26. In excavating over or near the subway roof, special care shall be exercised so that the thin concrete protection of the subway waterproofing is not damaged.

27. Burning of, welding to or drilling through existing steel structures will not be permitted except as shown on drawings approved by NYCT.

28. Horizontal and vertical control survey data of the existing NYCT structure is to be taken by a Licensed Land Surveyor to monitor any movements that occur during construction and to show that the induced movements are within allowab1es provided and approved by NYCT's Engineer. If any movements exceed allowables, remediation as approved by NYCT shall be performed.

29. Bus routes affected by the project will or may require bus diversions. These arrangements shall be made through:
Ms. Sara Wyss
Acting Director
Short Range Bus Service Planning
New York City Transit
2 Broadway, Room A17.92
New York, New York 10004
Telephone Number 646/252–5517

When impacting any bus stop, special operations must be notified two weeks in advance.

30. Duct lines must be maintained and protected during construction. Any interference with duct lines should be reported to NYCT Inspector. When a duct line containing cables is to be removed, or when masonry adjacent thereto is to be removed, penetrated, or drilled, the work shall be done with hand labor entirely, using hammer and chisel. Jackhammers, bull points or other power equipment shall not be used.

31. Where manholes are encountered:

a) They shall be protected and raised or lowered as required, to match the new street grade.
b) If manhole covers are raised or towered, protect cables in manhole by wood sheeting of 2" nominal thickness.
c) Prior to the start of construction operations affecting manholes and duct lines, seven days notice must be given to Mr. John Malvasio, P.E., Director, Department of Maintenance of Way, at 718/694–1358.

32. Construction work done near vent gratings and hatches shall be as follows:

a) Unless approved by the NYCT's Engineer, all vent gratings and hatches should remain outside the construction site, separated by a construction fence. Protective shields must be provided over vent gratings as required by NYCT's Engineer.
b) No building material, vehicles or construction equipment is to be stored or run over vent gratings, hatches or emergency exits.
c) Details of sidewalk reconstruction around vent gratings, hatches and emergency exits are to be submitted to NYCT for approval.

33. Tractors, cranes, excavators, etc. used In the vicinity of the elevated structures shall be isolated from the ground. Since the elevated structure is used as a negative return path; with a consequent potential between it and the ground, any contact between the structure and grounded equipment could result in burning of the steel.

34. Temporary construction sheds, barricades or plywood partitions must be a minimum of 5'–0" from edge of finished platform.

35. Station Areas or Stairway/Closings: The general requirements for Station Areas or Stairway/Closings are as follows:
a) Only one stairway at each station will be permitted to be closed at the same time. Approvals for closing any stairway must be obtained from the Division of station operations at least three weeks in advance.
b) Mr. Ashok Patel, Director, Office of Station Programs; Telephone 718/694–1695 of the Division of Stations must be notified one week prior to the actual closing and reopening of the entrance.
c) Ample signage must be supplied and posted at least one week in advance, advising the public of the proposed subway stair closing.
d) The street entrance stairway should not be closed unless manpower and materials are available to commence work on dates permitted.
e) Once the closing is effected, construction signs must be placed at appropriate locations on the barricades at the street and mezzanine levels, stating the contractor's name, 24 hour emergency telephone number, contract number, the duration of the closing, direction to an alternate entrance/exit, and an apology for the inconvenience to our customers.
f) Existing station signage must be adjusted to reflect any changes in access/egress.
g) Barricades are to be painted and kept graffiti free at all times. The contractor must maintain the barricaded area clean of all debris.
h) All materials are to be properly stored and secured away from passenger traffic.
i) The Contractor must remove all waste material and barricades from all station areas when construction is completed.
j) Inspection of the area under construction by authorized station Department employees shall not be inhibited.
k) If street lights on the sidewalks are affected, temporary lights shall be provided.

36. If new concrete construction is joined to existing concrete, dowels and keyways are to be used in accordance with NYCT standards.

37. If the project involves construction or alteration of a subway facility on private property, the property owners will be required to enter into an agreement with NYCT pertaining to all work affecting the transit facilities and clearly defining limits and responsibility for maintenance and liability.

38. Wherever a new sidewalk Is being placed adjacent to NYCT structures the following will be required:
a) The top of the new sidewalk shall be flush with the subway vent gratings, hatches and emergency exits.
b) The slope of the new sidewalk shall be such that the drainage be away from these structures.
c) A 1/2" pre–molded filler shall be Installed between the new sidewalk and NYC's structure.
d) Where sidewalk elevations are being changed details of proposed work around NYCT structures are to be submitted for approval.

39. Before the start of any work, the Contractor shall make an examination, in the presence of NYCT's Engineer, of the interior and exterior of NYCT subway or other structure adjacent to the proposed work. The person or persons authorized by the Contractor to make these examinations shall be approved by the Engineer. The Contractor shall take all photographs as may be necessary or ordered to indicate the existing condition of NYCT structure. One copy of each photograph eight inches by ten inches in size, and the negative is to be submitted to Mr. John Malvasio, P.E., Director, Department of Maintenance–of–Way, 130 Livingston Street, Room 8044D, Brooklyn, New York 11201, Telephone 718/694–1358 before the start of construction.

40. All architectural details (token booths, railings, doors, etc) are to conform to the latest NYCT Standards. These standards are available at NYCT.

41. Standard NYCT Insurance Clauses are to be made part of the project's Contract Drawings. Proof that the necessary Insurance is in effect will be required before Work can commence.

42. At the close of any project involving construction or alterations to transit facilities, one set of vellums or mylars; five sets of 35mm microfilm, and electronic copies complying to microstation.dgn format of "approved as – builts" must be provided to NYCT for its records. For details of specific requirement contact NYCT Outside Projects.

43. At least seven working days prior to the start of construction operations, notification must be given to Mr. John Malvasio, P.E. Director, Department of Maintenance–of–Way, at 781/694–1358. The contractor to provide temporary quarters near the job site for NYCT Inspectors containing a desk and telephone.

NYCT "OUTSIDE CONTRACT" INSURANCE REQUIREMENTS

1. The Permittee at its sole cost and expense shall carry or cause to carried and shall maintain at all times during the period of performance under this Agreement policies of insurance as herein below set forth below:

A. Workers' Compensation Insurance (including Employer's liability Insurance) with limits of not less than $2,000,000, which limit may be met by a combination of primary and excess insurance meeting the statutory limits of New York State. The policy shall be endorsed to include Longshoreman's and Harbor Workers' Compensation Act/Marine Coverage Endorsement and/or Jones Act Endorsement when applicable.

B. Commercial General Liability Insurance (I.S.0, 2001 Form or equivalent) approved by Permittor in the Permittee's name with limits of liability in the amount of at least $3,000,000 for each occurrence on a combined single limit basis for injuries to persons (including death) and damage to property, $3,000,000 General Aggregate and $3,000,000 in the Aggregate with respect to Products/Completed Operations. The limits may be provided in the form of a primary policy or combination of primary and umbrella/excess policy. When the minimum contract amounts can only be met when applying the umbrella/excess policy, the umbrella/excess Policy must follow form of the underlying policy and be extended to "drop down" to become primary in the event primary limits are reduced or aggregate limits are exhausted. Such insurance shall be primary and non–contributory to any other valid and collectible insurance and must be exhausted before implicating any Permittor/MTA policy available.

Such policy should be written on an occurrence form, and shall include:

Contractual coverage for Liability assured by the Permittee under this agreement;

Personal and Advertising Injury Coverage;

Products Completed Operations;

Independent Contractors Coverage;

"XCU" coverage (Explosion, Collapse, and Underground Hazards) where necessary;

Contractual Liability Exclusion, applicable to construction or demolition operations to be performed within 50 feet of railroad tracks, must be voided, where necessary; and

Additional Insured Endorsement (I.S.O Form CG 20 26 07/04 version or equivalent) approved by the Permittor naming;

New York City Transit Authority (NYCTA), the Manhattan and Bronx Surface Transit Operating Authority (MaBSTOA), the Staten Island Rapid Transit Operating Authority (SIRTOA), MTA Capital Construction Co., the Metropolitan Transportation Authority (MTA including its subsidiaries and affiliates, and the City of New York (as Owner).

C. Business Automobile Liability Insurance Policy – (I.S.O Form CA 00 01 10 01 or equivalent) approved by the Permittor is required if Permittee's vehicle enters Permittor's property. The insurance must be in the name of the Permittee or its contractor entering the Permittor's property with limits of liability in the amount of $2,000,000 each accident for claims for bodily injuries (including death) to persons and for damage to property arising out of the ownership, maintenance or use of any owned, hired or non–owned motor vehicle.

D. Railroad Protective Liability Insurance (ISO–RIMA or equivalent form) approved by Permittor covering the work to be performed at the designated job site and affording protection for damages arising out of bodily injury or death, physical damage to or destruction of property, including damage to the Insured's own property and conforming to the following:

The following are the "Named Insureds" for this coverage:

New York City Transit Authority (NYCTA), the Manhattan and Bronx Surface Transit Operating Authority (MaBSTOA), the Staten Island Rapid Transit Operation Authority (SIRTOA, MTA Capital Construction Co., the Metropolitan Transportation Authority (MTA) including its subsidiaries and affiliates, and the City of New York (as Owner);

The limit of liability shall be $2,000,000 at least each occurrence, subject to a $6,000,000 annual aggregate;

Policy Endorsement CG 28 31 – Pollution Exclusion Amendment is required to be endorsed onto the polity when environmental–related work and/or exposures exist;

Indicate the name and address of the Contractor to perform the work, the Contract No. and the name of the railroad property where the work is being performed and the Agency Permit;

Evidence of Railroad Protective Liability Insurance, must be provided in the form of the Original Policy. A detailed Insurance Binder (ACORD or Manuscript Form) will be accepted pending issuance of the Original Policy, which must be provided within 30 days of the Binder Approval.

E. Environmental/Pollution Exposures

In the event environmental or pollution exposures exist; the Permittee shall require the environmental contractor or sub–contractor to provide the applicable insurance covering such as exposure. The limits and type of insurance provided shall be satisfactory to the Permittor and will be confirmed to the parties prior to the start of the work.

2. General Requirements Applicable to Insurance Policies

a) All of the insurance required by this Article shall be with Companies licensed or authorized to do business in the State of New York with an A.M. Best Company rating of not less than A–/VII or better and reasonably approved by the Permittor/MTA and shall deliver evidence of such policies.

b) Except for Workers' Compensation, all references to forms and coverages referred to above shall be the most recent used by the Insurance Services Office, Inc. ("ISO") or equivalent forms approved by the Insurance Department of the State of New York, provided, however, that excess coverages may be written on forms reasonably acceptable to Permittor containing provisions other than those contained in ISO forms but otherwise conforming in substance to the requirements of this Article.

c) The Permittee or its Contractor performing the work shall furnish evidence of all policies before any work is started to the Permittor.

For NYCT Contract Inspection
C/O Mr. John Malvasio
Director, MOW Engineering
130 Livingston Street, Room 8044F
Brooklyn, NY 11201
Telephone: (718) 694–1358

These policies must: (i) be written in accordance with the requirements of the paragraphs above, as applicable, (ii) be endorsed in form acceptable to include a provision that the policy will not be canceled, materially changed, or not renewed, unless otherwise indicated herein, at least thirty (30) days prior written notice to the Permittor c/o MTA Risk and Insurance Management Department – Standards, Enforcement & Claims Unit, 2 Broadway – 21st floor, New York, NY 10004; and (iii) state or be endorsed to provide that the coverage afforded under the contractor's policies shall apply on a primary and not on an excess or contributing basis with any policies which may be available to the Permittor/MTA, and also that the contractor's policies, primary and excess, must be exhausted before implicating any Permittor/MTA policy available, (iv) In addition, contractor's policies shall state or be endorsed to provide that, if a sub–contractor's policy contains any provision that may adversely affect whether contractor's policies are primary and must be exhausted before implicating any Permittor/MTA policy available, contractor's and sub–contractor's policies shall nevertheless be primary and must be exhausted before implicating any Permittor/MTA Policy available. Except for Professional Liability, policies written on claims made basis are not acceptable. At least two (2) weeks prior to the expiration of the policies, contractor shall endeavor to provide evidence or renewal or replacement policies of insurance, with terms and limits no less favorable than the expiring policies. Except as otherwise indicated in the detailed coverage paragraphs below, self insured retentions and policy deductibles shall not exceed $100,000, unless such increase deductible or retention is approved by the Permittor/MTA. The Permittee shall be responsible for all claim expenses and loss payments within the deductible or self–insured retention. The insurance monetary limits required herein may be met through the combined use of the insured's primary and Umbrella/Excess policies.

d) Certificates of Insurance may be supplied as evidence of policies of the above policies, except the Railroad Protective Liability Policy, designated as Policy D. However, if requested by the Permittor, the Permittee shall deliver to the Authority, within forty–five (45) days of the request, a copy of such policies, certified by the insurance carrier as being true and complete. The Railroad Protective Liability Insurance Policy must be provided in the form of the Original Policy. A detailed Insurance Binder may be provided, ACORD or Manuscript Form, pending issuance of the Original Policy. The Original Policy must be submitted to MTA RIM within 30 days of the Binder Approval.

e) If a Certificate of Insurance is submitted, it must: (1) be provided on the Permittor Certificate of Insurance Form or MTA Certificate of Insurance Form for Joint Agency Agreements; (2) be signed by an authorized representative of the insurance carrier or producer and notarized; (3) disclose any deductible, self–insured retention, sub–limit, aggregate limit or any exclusions to the policy that materially change the coverage; (4) indicate the Additional Insureds and Named Insureds as required herein, along with a physical copy of the Additional Insured Endorsement (I.S.O Form CG 20 26 07/04 version of equivalent), as applicable and the endorsement(s) must include policy number(s); (5) reference the Contract by number on the face of the certificate; and (6) expressly reference the inclusion of all required endorsements.

f) The minimum amounts of insurance required in the detail description of policies A, B, C, and D above shall not be construed to limit the extent of the Permittee's liability under this Agreement.

g) If, at any time during the period of this Agreement, insurance as required is not in effect, or proof thereof is not provided to the Permittor, the Permittor shall have the options to; (i) direct the Permittee to suspend work or operation with no additional cost of extension of time due on account thereof, or (ii) treat such failure as an Event of Default.

DEPT OF BLDGS 121328919 Job Number

ES716568871 Scan Code

Platt Byard Dovell White Architects, LLP

20 West 22nd Street
New York, NY 10010
212.691.2440
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New York, NY 10001
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MEP Engineer
AKF
330 West 42nd Street, 14th Floor
New York, NY 10036
212.354.5656
212.354.5668 fax

Geotechnical Engineer
RA Consulting LLC
47 Wilkens Drive
Dumont, NJ 07628
212.374.1794
212.374.1795 fax

Code Consultant
Design 1237
52 Diamond Street
Brooklyn, NY 11222
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Shauqat Shaikh
NYC Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
03.03.14		Issue For DOB
01.31.14		Guaranteed Max Price
01.10.14		Pricing Set
01.06.14		Progress Set
08.30.13		MTA Submission
07.01.13		80% CD Pricing Set

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:

NYTA NOTES & INSURANCE CLAUSE NOTES

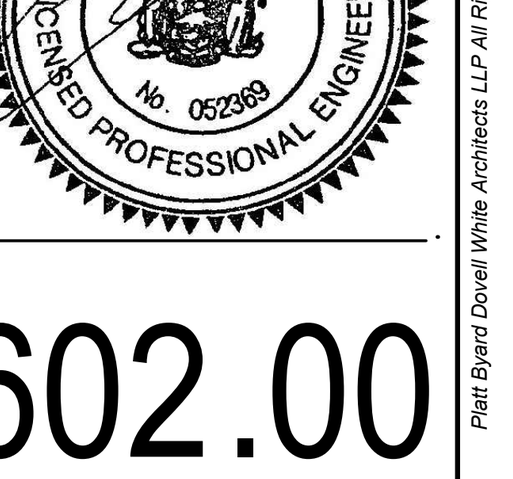
Project Number: 12639 12666 AEA

Drawn By: CAD AEA

Checked By: AC

Scale: AS NOTED

Signature & Seal:



Sheet Number: S-602.00

Sheet: 57 of 59

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Mechanical Compliance Certificate

90.1 (2010) Standard

Section 1: Project Information

Project Type: **New Construction**
Project Title : 8 WEST 70TH STREET

Construction Site: Owner/Agent: Designer/Contractor:
8 West 70th Street
New York, NY 10023

Section 2: General Information

Building Location (for weather data): **New York, New York**
Climate Zone: **4a**

Section 3: Mechanical Systems List

Quantity	System Type & Description
18	HVAC System 1 (Single Zone) : Water Source Heat Pump Heating Mode: Capacity = 41 kBtu/h, Proposed Efficiency = 4.53 COP, Required Efficiency = 4.20 COP Cooling Mode: Capacity = 56 kBtu/h, , Air Economizer Proposed Efficiency = 12.50 EER, Required Efficiency = 12.00 EER Fan System: None
1	HVAC System 2 (Single Zone) : Water Source Heat Pump Heating Mode: Capacity = 58 kBtu/h, Proposed Efficiency = 4.68 COP, Required Efficiency = 4.20 COP Cooling Mode: Capacity = 65 kBtu/h, , Air Economizer Proposed Efficiency = 13.90 EER, Required Efficiency = 12.00 EER Fan System: None
4	HVAC System 3 (Single Zone) : Water Source Heat Pump Heating Mode: Capacity = 35 kBtu/h, Proposed Efficiency = 4.84 COP, Required Efficiency = 4.20 COP Cooling Mode: Capacity = 51 kBtu/h, Proposed Efficiency = 12.50 EER, Required Efficiency = 12.00 EER Fan System: None
8	HVAC System 4 (Single Zone) : Water Source Heat Pump Heating Mode: Capacity = 23 kBtu/h, Proposed Efficiency = 4.95 COP, Required Efficiency = 4.20 COP Cooling Mode: Capacity = 31 kBtu/h, Proposed Efficiency = 12.20 EER, Required Efficiency = 12.00 EER Fan System: None
2	HVAC System 5 (Single Zone) : Water Source Heat Pump Heating Mode: Capacity = 6 kBtu/h,

Quantity	System Type & Description
	Proposed Efficiency = 17.50 EER, Required Efficiency = 11.20 EER Cooling Mode: Capacity = 9 kBtu/h, No minimum efficiency requirement applies Fan System: None
3	HVAC System 6 (Single Zone) : Water Source Heat Pump Heating Mode: Capacity = 37 kBtu/h, Proposed Efficiency = 4.84 COP, Required Efficiency = 4.20 COP Cooling Mode: Capacity = 55 kBtu/h, , Air Economizer Proposed Efficiency = 12.10 EER, Required Efficiency = 12.00 EER Fan System: None
3	HVAC System 7 (Single Zone) : Water Source Heat Pump Heating Mode: Capacity = 25 kBtu/h, Proposed Efficiency = 4.95 COP, Required Efficiency = 4.20 COP Cooling Mode: Capacity = 34 kBtu/h, Proposed Efficiency = 12.20 EER, Required Efficiency = 12.00 EER Fan System: None
3	HVAC System 8 (Single Zone) : Water Source Heat Pump Heating Mode: Capacity = 9 kBtu/h, Proposed Efficiency = 12.00 EER, Required Efficiency = 11.20 EER Cooling Mode: Capacity = 12 kBtu/h, No minimum efficiency requirement applies Fan System: None
4	HVAC System 9 (Single Zone) : Water Source Heat Pump Heating Mode: Capacity = 31 kBtu/h, Proposed Efficiency = 4.60 COP, Required Efficiency = 4.20 COP Cooling Mode: Capacity = 44 kBtu/h, Proposed Efficiency = 12.30 EER, Required Efficiency = 12.00 EER Fan System: None
2	Plant 1: Heating: Hot Water Boiler, Capacity 1425 kBtu/h, Gas, with Waterloop Heat Pump Proposed Efficiency: 97.80 % Et, Required Efficiency: 80.00 % Et
1	Plant 2: Heating: Hot Water Boiler, Capacity 380 kBtu/h, Gas, with Waterloop Heat Pump Proposed Efficiency: 98.10 % Et, Required Efficiency: 80.00 % Et
2	Plant 3: Cooling: Condensing Unit, Capacity 1307 kBtu/h, Condenser Air-Cooled Proposed Efficiency: 11.20 EER, Required Efficiency: 10.50 EER
1	Plant 4: Cooling: Condensing Unit, Capacity 832 kBtu/h, Condenser Air-Cooled Proposed Efficiency: 11.50 EER, Required Efficiency: 10.50 EER

Section 4: Requirements Checklist

Requirements Specific To: HVAC System 1 :

☑ 1. Equipment minimum efficiency: Heat Pump: 4.20 COP 12.00 EER
☑ 2. Heat pump thermostat required when supplemental electric resistance heat is installed
☑ 3. Integrated air economizer is required for individual cooling systems and allows modulation of outdoor air and return air dampers to provide up to 100% of the design supply air quantity as outdoor air for cooling. All air economizers shall be capable of automatically reducing outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will no longer reduce cooling energy usage.
☑ 4. Air economizer dampers can be sequenced with the cooling equipment and not controlled exclusively by mixed air temperature.
☑ 5. Chilled-water and condenser water piping is designed such that the design flow rate in each pipe segment is based on the appropriate total annual hours of operation (see ASHRAE 90.1-2010 Section 6.5.4.5 for details).

Requirements Specific To: HVAC System 2 :

☑ 1. Equipment minimum efficiency: Heat Pump: 4.20 COP 12.00 EER
☑ 2. Heat pump thermostat required when supplemental electric resistance heat is installed
☑ 3. Integrated air economizer is required for individual cooling systems and allows modulation of outdoor air and return air dampers to provide up to 100% of the design supply air quantity as outdoor air for cooling. All air economizers shall be capable of automatically reducing outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will no longer reduce cooling energy usage.
☑ 4. Air economizer dampers can be sequenced with the cooling equipment and not controlled exclusively by mixed air temperature.
☑ 5. Chilled-water and condenser water piping is designed such that the design flow rate in each pipe segment is based on the appropriate total annual hours of operation (see ASHRAE 90.1-2010 Section 6.5.4.5 for details).

Requirements Specific To: HVAC System 3 :

☑ 1. Equipment minimum efficiency: Heat Pump: 4.20 COP 12.00 EER
☑ 2. Heat pump thermostat required when supplemental electric resistance heat is installed
☑ 3. Chilled-water and condenser water piping is designed such that the design flow rate in each pipe segment is based on the appropriate total annual hours of operation (see ASHRAE 90.1-2010 Section 6.5.4.5 for details).

Requirements Specific To: HVAC System 4 :

☑ 1. Equipment minimum efficiency: Heat Pump: 4.20 COP 12.00 EER
☑ 2. Heat pump thermostat required when supplemental electric resistance heat is installed
☑ 3. Chilled-water and condenser water piping is designed such that the design flow rate in each pipe segment is based on the appropriate total annual hours of operation (see ASHRAE 90.1-2010 Section 6.5.4.5 for details).

Requirements Specific To: HVAC System 5 :

☑ 1. Equipment minimum efficiency: Heat Pump: 11.20 EER
☑ 2. Heat pump thermostat required when supplemental electric resistance heat is installed
☑ 3. Chilled-water and condenser water piping is designed such that the design flow rate in each pipe segment is based on the appropriate total annual hours of operation (see ASHRAE 90.1-2010 Section 6.5.4.5 for details).

Requirements Specific To: HVAC System 6 :

☑ 1. Equipment minimum efficiency: Heat Pump: 4.20 COP 12.00 EER
☑ 2. Heat pump thermostat required when supplemental electric resistance heat is installed
☑ 3. Integrated air economizer is required for individual cooling systems and allows modulation of outdoor air and return air dampers to provide up to 100% of the design supply air quantity as outdoor air for cooling. All air economizers shall be capable of automatically reducing outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will no longer reduce cooling energy usage.
☑ 4. Air economizer dampers can be sequenced with the cooling equipment and not controlled exclusively by mixed air temperature.
☑ 5. Chilled-water and condenser water piping is designed such that the design flow rate in each pipe segment is based on the appropriate total annual hours of operation (see ASHRAE 90.1-2010 Section 6.5.4.5 for details).

Requirements Specific To: HVAC System 7 :

☑ 1. Equipment minimum efficiency: Heat Pump: 4.20 COP 12.00 EER
☑ 2. Heat pump thermostat required when supplemental electric resistance heat is installed
☑ 3. Chilled-water and condenser water piping is designed such that the design flow rate in each pipe segment is based on the appropriate total annual hours of operation (see ASHRAE 90.1-2010 Section 6.5.4.5 for details).

Requirements Specific To: HVAC System 8 :

☑ 1. Equipment minimum efficiency: Heat Pump: 11.20 EER
☑ 2. Heat pump thermostat required when supplemental electric resistance heat is installed
☑ 3. Chilled-water and condenser water piping is designed such that the design flow rate in each pipe segment is based on the appropriate total annual hours of operation (see ASHRAE 90.1-2010 Section 6.5.4.5 for details).

Requirements Specific To: HVAC System 9 :

☑ 1. Equipment minimum efficiency: Heat Pump: 4.20 COP 12.00 EER
☑ 2. Heat pump thermostat required when supplemental electric resistance heat is installed
☑ 3. Chilled-water and condenser water piping is designed such that the design flow rate in each pipe segment is based on the appropriate total annual hours of operation (see ASHRAE 90.1-2010 Section 6.5.4.5 for details).

Requirements Specific To: Plant 1 :

☑ 1. Equipment minimum efficiency: Boiler Thermal Efficiency 80% Et

☑ 2. Loop temperature controlled with 20 degrees F deadband where neither cooling tower/fluid cooler nor boiler can operate
☑ 3. Two-position valve on each heat pump having total heat pump system power >10hp

Requirements Specific To: Plant 2 :

☑ 1. Equipment minimum efficiency: Boiler Thermal Efficiency 80% Et
☑ 2. Loop temperature controlled with 20 degrees F deadband where neither cooling tower/fluid cooler nor boiler can operate
☑ 3. Two-position valve on each heat pump having total heat pump system power >10hp

Requirements Specific To: Plant 3 :

☑ 1. Equipment minimum efficiency: Condensing Unit: 10.500 EER (11.8 IEER)
☑ 2. Chilled-water and condenser water piping is designed such that the design flow rate in each pipe segment is based on the appropriate total annual hours of operation (see ASHRAE 90.1-2010 Section 6.5.4.5 for details).

Requirements Specific To: Plant 4 :

☑ 1. Equipment minimum efficiency: Condensing Unit: 10.500 EER (11.8 IEER)
☑ 2. Chilled-water and condenser water piping is designed such that the design flow rate in each pipe segment is based on the appropriate total annual hours of operation (see ASHRAE 90.1-2010 Section 6.5.4.5 for details).

Generic Requirements: Must be met by all systems to which the requirement is applicable:

☑ 1. Load calculations per ANSI/ASHRAE/ACCA Standard 183-2007.
☑ 2. Pump head is determined in accordance with generally accepted engineering standards and handbooks acceptable to the adopting authority.
☑ 3. Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup
☑ 4. Pipe serving heating and/or cooling systems is insulated per Section 6.4.4.1.3. General applicable insulation requirements are:
Fluid Temp
Range (°F)
> 350 : < 1.0" pipe = 4.5" insulation, otherwise 5.0" insulation
251-350 : < 1.0" pipe = 3.0" insulation, < 1.5" pipe = 4.0" insulation, otherwise 4.5" insulation
201-250 : < 4.0" pipe = 2.5" insulation, otherwise 3.0" insulation
141-200 : < 1.5" pipe = 1.5" insulation, otherwise 2.0" insulation
105-140 : < 1.5" pipe = 1.0" insulation, otherwise 1.5" insulation
40-60 : < 1.5" pipe = 0.5" insulation, otherwise 1.0" insulation
< 40 : < 1.0" pipe = 0.5" insulation, < 8.0" pipe = 1.0" insulation, otherwise 1.5" insulation
☑ 5. Thermostatic controls have 5°F deadband
☑ 6. Demand control ventilation (DCV) present for high design occupancy areas (>40 person/1000 ft2 in spaces >500 ft2) and served by systems with any one of 1) an air-side economizer, 2) automatic modulating control of the outdoor air damper, or 3) a design outdoor airflow greater than 3000 cfm.
☑ 7. Where separate thermostats are used for heating and cooling, acceptable measures are used to prevent simultaneous heating and cooling
☑ 8. Motorized, automatic shutoff dampers required on exhaust and outdoor air supply openings for systems serving conditioned space.
☑ 9. Required outdoor air supply and exhaust/relief dampers have a maximum leakage rate as indicated in ASHRAE 90.1-2010 Table 6.4.3.4.3.
☑ 10. Fans with motors > 0.75 hp shall have automatic controls capable of shutting off fans when not required.
N/A 11. Enclosed parking garage ventilation systems automatically detect contaminant levels and control fan airflow rates to 50% or less of design capacity.
☑ 12. Stair and elevator shaft vents are equipped with motorized dampers
☑ 13. Acceptable measures used to prevent simultaneous humidification and dehumidification
☑ 14. Automatic controls for freeze protection systems present
☑ 15. Duct, plenum, and piping insulation surfaces suitably protected from weather, moisture, or likely damage
☑ 16. All thermally ineffective panel surfaces of sensible heating panels are insulated with a minimum of R-3.5.
☑ 17. Duct Sealing:
a) Pressure sensitive tape used as the primary sealant is certified to comply with UL-181A or UL-181B,
b) longitudinal and transverse seams for ducts in unconditioned spaces,
c) longitudinal and transverse seams and duct wall penetrations for ducts outside the building,
d) transverse seams on buried ducts
☑18. R-6 for supply air ducts located outside the building, in ventilated attics and in unvented attic above insulated ceiling
R-3.5 for supply air ducts in unvented attic with roof insulation, unconditioned and underground spaces
R-3.5 for return air ducts located outside the building, in ventilated attics and in unvented attic above insulated ceiling
N/A 19. Humidistat controls prevent reheating, recooling, and mixing of mechanically heated air with mechanically cooled air
☑ 20. Kitchen exhaust system: Replacement air fed into the hood cavity of kitchen exhaust hoods <= 10% of the hood exhaust

airflow rate.
☑ 21. Kitchen exhaust system: Conditioned supply air provided to any space with a kitchen hood is less than the greater of a) the supply flow required to meet conditioning load or b) the hood exhaust flow minus the available transfer air from adjacent spaces.
☑ 22. Total kitchen hood exhaust airflow > 5,000 cfm: Each hood has an exhaust rate that complies with ASHRAE 90.1-2010 Table 6.5.7.1.3. Single hood or hood section installed over appliances with different duty ratings have maximum allowable flow rate not exceeding the Table 6.5.7.1.3 values.
☑ 23. Total kitchen hood exhaust airflow > 5,000 cfm: One the following conditions is met: a) >= 50% of all replacement air is transfer air that would otherwise be exhausted, b) demand ventilation system(s) on >= 75% of the exhaust air, or c) energy recovery devices with a sensible heat recovery effectiveness >= 40% on at least 50% of the total exhaust airflow.
☑ 24. Kitchen exhaust system: An approved field test method has been used to evaluate design air flow rates and demonstrate proper performance.
N/A 25. Laboratory exhaust systems with airflow > 5,000 cfm have one the following:
a) VAV hood exhaust and room supply systems capable of reducing exhaust and makeup air volume to 50% or less of design values, or
b) Heat recovery systems to precondition makeup air from fume hood exhaust, or
c) Capability to reduce zone exhaust and makeup air flow rates to regulated minimum circulation values, or the minimum required to maintain pressurization relationship requirements.
☑ 26. Each fan system has an energy recovery system when one of the following conditions are met:
30% >= POA < 40% AND DAF >= 5,500 cfm
40% >= POA < 50% AND DAF >= 4,500 cfm
50% >= POA < 60% AND DAF >= 3,500 cfm
60% >= POA < 70% AND DAF >= 2,000 cfm
70% >= POA < 80% AND DAF >= 1,000 cfm
80% >= POA AND DAF >= 0 cfm
where POA = Percent outdoor air at full design airflow rate and DAF = Design supply fan airflow rate

Section 5: Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2010) Standard requirements in COM*check* Version 3.9.2 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title Signature Date

Section 6: Post Construction Compliance Statement

☐ HVAC record drawings of the actual installation and performance data for each equipment provided to the owner within 90 days after system acceptance.
☐ HVAC O&M documents for all mechanical equipment and system provided to the owner within 90 days after system acceptance.
☐ Written HVAC balancing report provided to the owner.

The above post construction requirements have been completed.

Principal Mechanical Designer-Name Signature Date

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Shauqat Shaikh
NYC Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
03/03/2014	1	DOB FILING SET

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:
ENERGY CODE COMPLIANCE

Project Number: Y120612-000
Drawn By: CM
Checked By: CM
Scale: 12" = 1'-0"
Signature & Seal: STATE OF NEW YORK · JACOB JL LAWRENCE III · 079475 · LICENSED PROFESSIONAL ENGINEER

Sheet Number:
EN-100

NYC DOB Number:
Sheet: 1 *of* 1

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Opp. Ex. 1001 Page 140 of 205

DEPT OF BLDGS 121328919 Job Number
ES276546729 Scan Code

PLUMBING SYMBOL LIST

PLUMBING BASIC SYMBOLS

Symbol	Description
	NEW SOIL, WASTE OR SANITARY PIPING
	VENT PIPING (SANITARY)
	PIPING BELOW SLAB
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING (120°)
	DOMESTIC HOT WATER CIRCULATION PIPING
	PIPING w/FREEZE PROTECTION CABLE & INSULATION
	ARROW INDICATES DIRECTION OF FLOW
G	GAS PIPING
EJ	EJECTOR DISCHARGE PIPING
IW	INDIRECT WASTE PIPING
PD	PUMP DISCHARGE PIPING
SD	SUMP PUMP DISCHARGE PIPING
ST	STORM WATER DRAINAGE PIPING
T	TEMPERED WATER PIPING
	CONNECT TO EXISTING
	SHOCK ARRESTOR
	FLEXIBLE CONNECTION
(H) X (L)	EXPANSION LOOP SIZE
	HOSE BIBB
	WALL HYDRANT
	FRESH AIR INLET
	CLEAN OUT/PLUGGED OUTLET
	CAPPED OUTLET
	CLEAN-OUT DECK PLATE
	P-TRAP
	VACUUM BREAKER
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	SIDE CONNECTION
	PIPE DOWN/DROP
	PIPE RISE/UP
	PIPE SLOPE
	VALVE IN VERTICAL
	UNION
	REDUCER
	WATER PROOF SLEEVE
	SLEEVE
	PRESSURE GAUGE w/GAUGE COCK
	TEMPERATURE GAUGE
	FLOOR DRAIN
	ROOF DRAIN
	PUMP
M	WATER METER
ABD	AUTOMATIC BALL DRIP
	VENT THRU ROOF
	TRAP
T	TAMPER SWITCH
PS	PRESSURE SWITCH w/GAUGE COCK
	WATERFLOW SWITCH
	TEMPERATURE AND PRESSURE RELIEF VALVE
	PLUG VALVE
	MIXING VALVE
	RELIEF VALVE
	BALL VALVE
	GATE VALVE
	GLOBE VALVE
	OUTSIDE SCREW & YOKE (OS & Y) VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE (PRV)
	SOLENOID VALVE
BPA	BACKFLOW PREVENTER ASSEMBLY
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY
DCV	DETECTOR CHECK VALVE ASSEMBLY
BVA	BALANCING VALVE ASSEMBLY
F / X	RISER DESIGNATION (RISER SERVICE / RISER NUMBER)

PLUMBING ABBREVIATIONS

Abbreviation	Meaning
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
BLDG	BUILDING
BOP	BOTTOM OF PIPE
CO	CLEANOUT
CODP	CLEANOUT DECK PLATE
CM	COFFEE MAKER
CV	CHECK VALVE
CVO	CAPPED AND VALVED OUTLET
CW	COLD WATER
CLG	CEILING
CONN	CONNECT
CONT	CONTINUATION
DIA	DIAMETER
DN	DOWN (PENETRATES FLOOR SLAB)
DR	DRAIN
DWG	DRAWING
EJ DIS	EJECTOR DISCHARGE
EL	ELEVATION
EWC	ELECTRIC WATER COOLER
FAI	FRESH AIR INLET
FD	FLOOR DRAIN
FU	FIXTURE UNIT
FL	FLOOR
FL H	FLOOR HYDRANT
FT	FEET
GC	GENERAL CONTRACTOR
GAL	GALLONS
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HCLG	HUNG CEILING
HW	HOT WATER
HWR	HOT WATER RETURN
ID	INSIDE DIAMETER
IW	INDIRECT WASTE
IN	INCH
JS	JANITOR'S SINK
LAV	LAVATORY
MAP	MEDICAL GAS ALARM PANEL
MAX	MAXIMUM
MIN	MINIMUM
MR	MOP RECEPTOR
NC	NORMALLY CLOSED
NIC	NOT IN THIS CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OS&Y	OUTSIDE SCREW & YOKE GATE VALVE
PC	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE
PO	PLUGGED OUTLET
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH (GAUGE)
RD	ROOF DRAIN
SA	SHOCK ABSORBER
SAN	SANITARY
SD	SUMP PUMP DISCHARGE
SH	SHOWER
SK	SINK
SQ FT	SQUARE FOOT
ST	STORM
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UP	UP (PENETRATES FLOOR SLAB)
UR	URINAL
V	VENT
VB	VACUUM BREAKER
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT

PLUMBING WATER SERVICE SYMBOLS

(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)

Symbol	Description
	ISOLATION VALVE w/BOX TO GRADE
	MANHOLE IN SANITARY SEWER
	EXISTING MANHOLE
	FIRE HYDRANT
W	SITE WATER (COMBINED DOMESTIC & FIRE)

NEW YORK CITY BUILDING DEPARTMENT PLUMBING NOTES

THE PLUMBING SYSTEMS (SANITARY, VENT, WATER DISTRIBUTION AND GAS) AND ALL ASSOCIATED EQUIPMENT WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FULL REQUIREMENTS OF THE BUILDING CODE OF THE CITY OF NEW YORK AS CITED IN THE NEW YORK CITY PLUMBING CODE (NYCPC), CHAPTER 13 REFERENCED STANDARDS OF THE NYCPC AND THE NEW YORK CITY FUEL GAS CODE (NYCFGC).

1. THE SANITARY SYSTEM SHALL BE IN FULL ACCORDANCE WITH THE GENERAL PROVISIONS OF SECTION PC 301.
2. THE MATERIALS USED IN THE PLUMBING SYSTEM WILL BE PROVIDED IN FULL ACCORDANCE WITH SECTIONS PC 302 AND PC 303.
3. EQUIPMENT HOOK-UP AND THE JOINING OF PIPING WILL BE IN FULL COMPLIANCE WITH SECTIONS PC 605 AND PC 705.
4. THE INSTALLATION OF FIXTURES WILL BE IN FULL ACCORDANCE WITH SECTION PC 405.
5. TRAPS FOR FIXTURES AND DRAIN LINES WILL BE PROVIDED AND CLEANOUTS INSTALLED IN FULL ACCORDANCE WITH SECTIONS PC412, PC 708 AND CHAPTER 10.
6. VERTICAL AND HORIZONTAL PIPING WILL BE HUNG AND SUPPORTED AS DIRECTED IN SPECIFICATIONS AND IN THE FULL COMPLIANCE WITH SECTION PC 308.
7. THE WATER SUPPLY SYSTEM OF THE SUBJECT BUILDING SHALL BE INSTALLED AND MAINTAINED IN FULL COMPLIANCE WITH CHAPTER 6.
8. THE SANITARY DRAINAGE SYSTEM OF THE SUBJECT BUILDING WILL BE INSTALLED IN FULL COMPLIANCE WITH CHAPTER 7.
9. THE VENT PIPING FOR THE SANITARY DRAINAGE SYSTEM OF THE SUBJECT BUILDING WILL BE INSTALLED IN FULL COMPLIANCE WITH SECTION PC 702 AND CHAPTER 9.
10. THE STORM DRAINAGE SYSTEM OF THE SUBJECT BUILDING WILL BE INSTALLED IN FULL COMPLIANCE WITH CHAPTER 11.
11. GAS PIPING AND EQUIPMENT WILL BE INSTALLED IN FULL COMPLIANCE WITH THE NEW YORK CITY FUEL GAS CODE.
12. ALL TRENCHING SHALL BE DONE IN FULL COMPLIANCE WITH THE REQUIREMENTS OF SECTION PC306.
13. TEMPORARY TOILET FACILITIES SHALL BE PROVIDED FOR WORKERS AS PER SECTION PC 311.
14. RODENT PROOFING SHALL BE DONE IN ACCORDANCE WITH SECTION PC 304.
15. CHANGES IN DIRECTION IN DRAINAGE PIPING SHALL BE MADE WITH APPROPRIATE USE OF 45 DEGREE WYES, LONG SWEEPS, SHORT SWEEPS, SIXTH, EIGHT OR SIXTEENTH BENDS OR BY A COMBINATION OF THESE OR EQUIVALENT FITTINGS. FOR LIMITATIONS ON FITTINGS SEE SECTION PC 706.3 AND TABLE 706.3.
16. SANITARY TEES MAY BE USED IN DRAINAGE LINES ONLY WHERE THE DIRECTION OF FLOW IS FROM THE HORIZONTAL TO THE VERTICAL. FOR LIMITATIONS ON DOUBLE SANITARY TEES SEE SECTION PC 706.3.
17. SHORT SWEEPS AND QUARTER BENDS WILL BE PERMITTED IN DRAINAGE PIPING 3 INCH DIAMETER OR LARGER FOR ANY OFFSETS EITHER HORIZONTAL OR VERTICAL. HORIZONTAL TO HORIZONTAL CONNECTIONS WILL BE PERMITTED FOR 2 INCH DIAMETER OR SMALLER FIXTURE DRAINS SEE SECTION TABLE 706.3.
18. TO THE BEST OF THE APPLICANT'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE.

GENERAL NOTES

1. GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL DRAWINGS MARKED P.
2. DRAWINGS ARE DIAGRAMMATIC: DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
3. NEITHER ACCURACY NOR COMPLETION OF UTILITY LOCATIONS SHOWN ON DRAWINGS IS GUARANTEED. DETERMINE EXACT LOCATIONS OF EXISTING UTILITY IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
4. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE CURRENT PLUMBING CODE AND ALL APPLICABLE LOCAL CODES AND DRAWINGS.
5. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES, INCLUDING (BUT NOT LIMITED TO), ELECTRICAL, HVAC PROCESS PIPING, SPRINKLER, PLUMBING STRUCTURAL AND GENERAL ARCHITECTURE.
6. ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE OWNER'S REPRESENTATIVE, AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.
7. NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY GOVERNING CODES. ANY WORK SHOWN ON THE DRAWINGS WHICH IS IN VIOLATION OF SUCH CODES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE OWNER'S REPRESENTATIVE AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.
8. ALL PIPING PENETRATING CEILING AND WALLS SHALL BE INSTALLED WITH CHROME (STAINLESS WHERE NOTED) PLATED ESCUTCHEONS AT THE PENETRATION. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN AN APPROVED MANNER AND SHALL BE SEALED WEATHER TIGHT. PIPING PENETRATING RATED PARTITIONS SHALL BE PROTECTED AS REQUIRED BY LOCAL CODE AUTHORITY. (SEE DETAILS)
9. MANUFACTURER'S MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
10. PRODUCT INSTALLATION SHALL ADHERE TO MANUFACTURERS' RECOMMENDATIONS.
11. PROVIDE ACCESS PANELS FOR EQUIPMENT THAT REQUIRES PERIODIC SERVICE.
12. TOPS OF ALL FLOOR DRAINS SHALL BE SET FLUSH WITH FINISHED FLOOR. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE.
13. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN HEREIN.
14. PROVIDE SHUTOFF VALVES ON ALL BRANCH PIPING AND ON ALL SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT. PROVIDE BALL VALVES ON ALL WATER MAIN BRANCHES IN CORRIDORS AND WHERE INDICATED ON DRAWINGS. ALL VALVES SHALL BE ACCESSIBLE.
15. ALL SLEEVES THROUGH CONCRETE FLOORS AND ALL CORE DRILLING OF CONCRETE FLOORS AND WALLS SHALL BE BY THIS CONTRACTOR.
16. CONCRETE PADS AND PLATFORMS FOR WORK OF THIS SECTION WILL BE PROVIDED BY GENERAL CONTRACTOR. PROVIDE INFORMATION AND HARDWARE AS NECESSARY TO COORDINATE WORK.
17. SCHEDULE WORK OF THIS SECTION TO AVOID INTERFERENCES WITH FIRE-PROOFING WORK.
18. COORDINATE ROOF PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS.
19. RUN PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS.
20. STRUCTURAL WELDING SHALL BE 1/4-INCH FILLET UNLESS REQUIRED OTHERWISE.
21. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
22. PROVIDE BALANCING VALVES AT SYSTEM LOOP RETURNS AND AT RETURN RISERS. PROVIDE SHUT-OFF VALVES AT SYSTEM LOOP SUPPLIES AND SUPPLY RISERS.
23. PROVIDE VENTS AT HIGH POINTS IN PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS.
24. PROVIDE GAUGE FITTINGS AND THERMOMETER WELLS AT HOT WATER SUPPLY AND RETURN BRANCHES AND AT PUMP INLETS AND OUTLETS.
25. VERIFY EXACT SIZES, LOCATIONS, INVERTS AND ELEVATIONS PRIOR TO RUNNING ANY PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL FIXTURES AND EQUIPMENT.
26. ALL GAS PIPING TO COMPLY WITH LOCAL AND STATE CODES.
27. GAS PIPING AND SAFETY DEVICES SHALL CONFORM TO THE REQUIREMENTS OF NFPA 54 AND SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE STATE REGULATOR BOARD.
28. GAS PIPING SHALL BE TESTED ACCORDING TO THE STATE FUEL GAS CODE AND NATIONAL CODE PROVISIONS OF THE LOCAL PLUMBING INSPECTOR. IF INSPECTION OF THE TEST SHOWS DEFECTS, SUCH DETECTIVE WORK AND MATERIAL SHALL BE REPLACED AND INSPECTION AND TEST SHALL BE REDONE.
29. PLUMBING SUBCONTRACTOR IS RESPONSIBLE FOR EXTENDING ALL REGULATOR VENTS TO ATMOSPHERE. REGULATORS ARE PART OF EQUIPMENT GAS TRAIN.
30. WATER HEATERS SHALL BE INSTALLED WITH DRAIN PANS UNDER HEATERS. ROUTE PAN DRAINS TO NEAREST FLOOR DRAIN OR SAFE DRAIN.
31. PIPING SHALL NOT RUN OVER ELECTRICAL PANELS AND SHALL BE COORDINATED WITH WORK OF OTHER TRADES.

PLUMBING DRAWING LIST

DRAWING No.	DRAWING TITLE
P-100.00	PLUMBING COVER SHEET
P-101.00	PLUMBING SCHEDULES
P-198.00	PLUMBING UNDERGROUND PIPING PLAN
P-199.00	PLUMBING SUB-CELLAR PLAN
P-200.00	PLUMBING CELLAR LEVEL PLAN
P-201.00	PLUMBING 1ST FLOOR PLAN
P-202.00	PLUMBING 2ND FLOOR PLAN
P-203.00	PLUMBING 3RD FLOOR PLAN
P-204.00	PLUMBING 4TH FLOOR PLAN
P-205.00	PLUMBING 5TH FLOOR PLAN
P-206.00	PLUMBING 6TH FLOOR PLAN
P-207.00	PLUMBING 7TH FLOOR PLAN
P-208.00	PLUMBING 8TH FLOOR PLAN
P-209.00	PLUMBING 9TH FLOOR PLAN
P-210.00	PLUMBING ROOF LEVEL PLAN
P-211.00	PLUMBING BULKHEAD PLAN
P-300.00	PLUMBING DOMESTIC WATER & NATUAL GAS RISER DIAGRAMS
P-301.00	PLUMBING SANITARY RISER DIAGRAM
P-302.00	PLUMBING SANITARY & STORM RISER DIAGRAMS
P-400.00	PLUMBING DETAILS SHEET 1 of 2
P-401.00	PLUMBING DETAILS SHEET 2 of 2

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08/06/2014	6	DOB FILING SET
03/03/2014	5	DOB FILING SET
01/31/2014	4	GUARANTEED MAXIMUM PRICE
01/10/2014	3	REVISED 80% PRICING SET
07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:
PLUMBING COVER SHEET

Project Number: Y120612-000
Drawn By: TS
Checked By: JL
Scale: 12" = 1'-0"

Signature & Seal:
STATE OF NEW YORK · JACOB JL LAWRENCE III · 079475 · LICENSED PROFESSIONAL ENGINEER

Sheet Number:
P-100.00

NYC DOB Number:

Sheet: 1 *of* 21

PUMP SCHEDULE

PUMP #	LOCATION	EQUIPMENT	MODEL	NO REQ'D	FLOW RATE	TDH	MOTOR DATA RPM	HP	PHASE	CYCLE	VOLTS	REMARKS
CR-1	SEE HEATER LOCATION	HOT WATER CIRC (105 F BLDG HWR) BELL & GOSSETT	SERIES PR	6	10	25		1/6	1	60	115	INLINE PUMP, ALL BRONZE
SP-1	ELEVATOR PIT	ELEVATOR SUMP PUMP STANCOR OIL MINDER	SE-50	2	74 MAX RATED	20'	3600	0.5	1	60	115	
EJ-1	SUB-CELLAR	DUPLEX SEWAGE EJECTOR PUMPS IN 5'X5'X7'(H) PIT AMERICAN-MARSH PUMP CO.	330-SSE-3C-T2-30	2	150	35	3600	3	3	60	208	
SP-2	SUB-CELLAR	DUPLEX SUMP PUMPS IN 6'x5'x7"(H) PIT W/ SAND INTERCEPTOR AMERICAN-MARSH PUMP CO.	330-SSE-3C-T2-20	2	75	35	3600	2	3	60	208	
BP-1	CELLAR	DUPLEX BOOSTER PUMPS AMERICAN-MARSH PUMP CO.	310-WPB-VD-2x2-7(5)	2	60 GPM	138'	3600	5	3	60	208	BUILDING DUPLEX BOOSTER SYSTEM WITH HYDROPNEUMATIC TANK
BP-2	CELLAR	DUPLEX BOOSTER PUMPS AMERICAN-MARSH PUMP CO.	310-WPB-VD-2x2.5-7(15)	2	150 GPM	196'	3600	15	3	60	208	RESIDENTIAL DUPLEX BOOSTER SYSTEM WITH HYDROPNEUMATIC TANK
BP-3	CELLAR	SIMPLEX BOOSTER PUMP AMERICAN-MARSH PUMP CO.	300-TFB-VD-2x2.5-7(2)	1	10 GPM	196'	3600	1.5	3	60	208	WATER SIMPLEX BOOSTER SYSTEM WITH HYDROPNEUMATIC TANK
BP-4	CELLAR	SYNCROFLO PACKAGE W/ 2 PEERLESS PUMPS..	C615AM	2	112 GPM	23'	1768	2	3	60	208	DETENTION STORM WATER DISCHARGE DUPLEX BOOSTER SYSTEM. PROVIDE STARTER/ DISCONNECT CONTROL PANEL AND FLOW CONTROLS MOUNTED IN DETENTION TANK
BP-5	CELLAR	GAS BOOSTER PUMP SPENCER TURBINE CO.	GL-040-1/2-R	1	9600 ICFH	10.4" W.C.	3500	1	3	60	208	

WATER HEATER SCHEDULE

SYMBOL	NUMBER REQUIRED	STORAGE GALS	RECOVERY GPH	RECOVERY DEG RISE	NUMBER ELEMENTS	ELECTRICAL KW	V	PH	HZ	TEMP SETTING	GAS INPUT BTU/H	MANUFACTURER & MODEL	REMARKS
WH-1	2	250	246	80	4	15	208	3	60	120		AO SMITH MODEL DVE-250	36" WIDTH, 43" DEPTH, 93" (H)
WH-2	1	85	1600	20						140	365,000	AO SMITH MODEL BTR-365	27.75" DIA, 79.5" (H), 8" FLUE
WH-3	3	80	77	80	3	15	208	3	60	120		AO SMITH MODEL DVE-80-15	25.5" DIA, 60.25"(H), 31" DEPTH

MATERIAL SCHEDULE

PIPE

SYSTEMS	REQUIRED	C.I. SOIL (XHCI)	BLACK	POLYPROPYLENE (ENFIELD)	BLACK STEEL (SCH 40)	GALVANIZED STEEL (SCH 40)	C.T "L"	R.B.P.	D.I.W.P. (CEMENT LINED, CLASS 50)	C.I. (NO-HUB)	PVC. SCH 40	C.T. "L" (MED/OXY)	C.T. "K" (MED/OXY)	STAINLESS STEEL
DRAINAGE (BURIED STORM & SANITARY)	●	●												
SANITARY, STORM AND VENT PIPING (ABOVE GRADE)	●									●				
CW, HW AND HWR	●						●							
BURIED C.W. (4" & LARGER)	●								●					
GAS PIPING (LARGER THAN 4")	●				●									
GAS PIPING (4" & SMALLER)	●				●									
EJECTOR & SUMP DISCHARGE PIPING	●					●								

FITTINGS

SYSTEMS	C.I. NO-HUB	C.I. SOIL (XHCI)	DUCTILE IRON	STD. C.I. -175# W.W.P.	EX. H. C.I. 400# W.W.P.	STD. C.I. FLG.-175# W.W.P.	STD. MALL. IRON-300# W.W.P. (BLACK)	GALV. MALL.-300# W.W.P.	DWV-COPPER	CAST BRONZE-175# W.W.P.	CAST BRONZE-400# W.W.P.	POLYPROPYLENE (ENFIELD)	SOLDER FITTINGS	WELDED FITTINGS	CLASS "D"	PVC
DRAINAGE (BURIED STORM & SANITARY)		●														
SANITARY, STORM AND VENT PIPING (ABOVE GRADE)	●															
CW, HW AND HWR													●			
BURIED C.W. (4" & LARGER)			●													
GAS PIPING (LARGER THAN 4")							●									
GAS PIPING (4" & SMALLER)							●									
EJECTOR & SUMP DISCHARGE PIPING								●								

JOINTS

SYSTEMS	GASKETED - PUSH ON	SOLVENT WELDED	SOLDERED	MECHANICAL (ENFIELD)	MECH JT W/ RETAINING GLAND	BRAZED	MECH. JOINT (VICTAULIC)	WELDED	NO-HUB (HEAVY DUTY)-HUSKY #4000	THREADED
DRAINAGE (BURIED STORM & SANITARY)	●									
SANITARY, STORM AND VENT PIPING (ABOVE GRADE)									●	
CW, HW AND HWR			●							
BURIED C.W. (4" & LARGER)					●					
GAS PIPING (LARGER THAN 4")								●		
GAS PIPING (4" & SMALLER)										●
EJECTOR & SUMP DISCHARGE PIPING			●				●			

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PLUMBING FIXTURE SCHEDULE

FIXTURE TYPE	DESCRIPTION FIXTURE	MANUFACTURER	MODEL&NUMBER	SERVICE CONNECTION S	W	V	CW	HW	REMARKS
P-1/P-1A	WATER CLOSET	SLOAN	2859.128	4"		2"	1"		PUBLIC TOILET. SEE ARCH DRAWINGS FOR MOUNTING HEIGHTS. COORDINATE CARRIER W/ PIPE SPACE CONDITIONS DETAILED ON ARCH. DWGS.
	FLUSH VALVE	SLOAN	111-1.28						
	SEAT	CHURCH	9500CT						
	CARRIER	J.R. SMITH	#0240Y/0210Y						
P-1B	WATER CLOSET	TOTO	CST416M	4"		2"	3/4"		RESIDENTIAL TOILET - FLOOR MOUNTED W/ TANK
	SEAT	CHURCH	9500CT						
	SUPPLY STOPS	MCGUIRE	#H2169LK						
P-2	URINAL	AMERICAN STD.	6590.501		2"	1-1/2"	3/4"		SEE ARCH DRAWINGS FOR MOUNTING HEIGHTS. COORDINATE CARRIER W/ PIPE SPACE CONDITIONS DETAILED ON ARCH. DWGS
	FLUSH VALVE	SLOAN ROYAL	#186-0.5						
	CARRIER	J.R. SMITH	0637						
P-3/P-3A	LAVATORY	KOHLER	#02054-L		1-1/2"	1-1/2"	1/2"	1/2"	WALL HUNG SEE ARCH DRAWINGS FOR MOUNTING HEIGHTS. FURNISH P-3A W/ TRUEBRO LAV GUARD TO MAINTAIN ADA PLUMBING FIXTURE INSTALLATION
	FAUCET	DELTA	#2529LF-LGHGMHDF						
	STRAINER	MCGUIRE	#155A						
	TRAP	MCGUIRE	#201						
	WASTE NIPPLE	MCGUIRE	#2127						
	SUPPLY STOPS	MCGUIRE	#H2165LK						
	CARRIER	J.R. SMITH	0700						
P-3B	LAVATORY	KOHLER	#2209-2		1-1/2"	1-1/2"	1/2"	1/2"	PUBLIC TOILET, UNDERCOUNTER
	FAUCET	DELTA	#87T105						
	STRAINER	MCGUIRE	#155A						
	TRAP	MCGUIRE	#201						
	WASTE NIPPLE	MCGUIRE	#2127						
	SUPPLY STOPS	MCGUIRE	#H2165LK						
P-3C	LAVATORY	PORCHER	#26060-01		1-1/2"	1-1/2"	1/2"	1/2"	WALL HUNG SEE ARCH DRAWINGS FOR MOUNTING HEIGHTS. MASTER BEDROOM AND FULL BATH
	FAUCET	AMERICAN STD.	#2064.101						
	STRAINER	MCGUIRE	#155A						
	TRAP	MCGUIRE	#201						
	WASTE NIPPLE	MCGUIRE	#2127						
	SUPPLY STOPS	MCGUIRE	#2165LK						
	CARRIER	PORCHER	KIT 262: 7301531-100.0070A						
P-3D	LAVATORY	PORCHER	#26060-01		1-1/2"	1-1/2"	1/2"	1/2"	WALL HUNG SEE ARCH DRAWINGS FOR MOUNTING HEIGHTS. POWDER ROOM
	FAUCET	AMERICAN STD.	#2064.101						
	STRAINER	MCGUIRE	#155A						
	TRAP	MCGUIRE	#201						
	WASTE NIPPLE	MCGUIRE	#2127						
	SUPPLY STOPS	MCGUIRE	#2165LK						
P-4	BATHTUB	KOHLER	#K-847/K-848		2"	1-1/2"	1/2"	1/2"	FULL BATH
	DRAIN	KOHLER	#K-37380						
	TUB FAUCET	SPEAKMAN	#S-1557						
	MIX. VALVE	SPEAKMAN	#CPT-1400-P						
	TRIM	SPEAKMAN	VS-3310-E2						
P-4A	BATHTUB	KOHLER	#K-847/K-848		2"	1-1/2"	1/2"	1/2"	FULL BATH
	DRAIN	KOHLER	#K-37380						
	TUB FAUCET	SPEAKMAN	#S-1557						
	MIX. VALVE	SPEAKMAN	#CPT-1000-P						
P-4B	SHOWER	FIELD CONSTRUCTED			2"	1-1/2"	1/2"	1/2"	MASTER BEDROOM
	DRAIN	J.R. SMITH	#2005Y						
	MIX. VALVE	SPEAKMAN	#CPT-1000-P						
	TRIM	SPEAKMAN	VS-3310-E2						
P-5	SINK	KOHLER	#K-3823-1		2"	1-1/2"	1/2"	1/2"	KITCHEN DOUBLE COMPARTMENT SINK
	FAUCET	KOHLER	#K-13963						
	STRAINER	ELKAY	#K-8801						
	TRAP	MCGUIRE	#204						
	WASTE NIPPLE	MCGUIRE	#3127						
	SUPPLY STOPS	MCGUIRE	#H2167LK						
P-5A	SINK	KOHLER	#K-3822-1		2"	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT SINK
	FAUCET	KOHLER	#K-13963						
	STRAINER	ELKAY	#K-8801						
	TRAP	MCGUIRE	#204						
	WASTE NIPPLE	MCGUIRE	#3127						
	SUPPLY STOPS	MCGUIRE	#H2167LK						
P-5B	SINK	KOHLER	#2209-2		2"	1-1/2"	1/2"	1/2"	BAR SINK
	FAUCET	DELTA	#15175-F						
	STRAINER	ELKAY	#LK-99						
	TRAP	MCGUIRE	#204						
	WASTE NIPPLE	MCGUIRE	#3127						
	SUPPLY STOPS	MCGUIRE	#H2167LK						
P-6	MOP RECEPTOR SINK	FIAT	#MSB3624		3"	1-1/2"	3/4"	3/4"	
	FAUCET	CHICAGO	#897-RCF						
	HOSE & BRACKET	FIAT	#832-AA						
	SEALANT	FIAT	#833-AA						
P-7	EWC	ELKAY	#LMABFTL8C		1-1/2"	1-1/2"	1/2"		FURNISH W/ BACKBOX, TRAP & SUPPLY STOP
FD'A'	FLOOR DRAIN	J.R. SMITH	#2005Y	TOILETS					SIZE AS INDICATED ON DWG.
FD'B'	FLOOR DRAIN	J.R. SMITH	#2310Y-LXH-P050	MECHANICAL ROOM					SIZE AS INDICATED ON DWG.
FD'C'	FLOOR DRAIN	J.R. SMITH	#3020C	KITCHEN					SIZE AS INDICATED ON DWG.
FS'1'	FLOOR SINK	JR SMITH	3040-U-LXH-PDBS-12	KITCHEN					SIZE AS INDICATED ON DWG. (1) IW
FS'2'	FLOOR SINK	JR SMITH	3040-U-LXH-PDBS-11	KITCHEN					SIZE AS INDICATED ON DWG. (2-4) IWS
FFD'A'	FUNNEL FLOOR DRAIN	J.R. SMITH	3510-B-U-LXH-NB	KITCHEN					SIZE AS INDICATED ON DWG. CUT & REMOVE GRATE INSIDE FUNNEL
FFD'B'	FUNNEL FLOOR DRAIN	J.R. SMITH	3650-B-U-LXH-NB	KITCHEN					SIZE AS INDICATED ON DWG. CUT & REMOVE GRATE INSIDE FUNNEL OVAL
RD	ROOF DRAIN	JR SMITH	#1800						SIZE AS INDICATED ON DWG.

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Sheet Title:
PLUMBING SCHEDULES

Project Number: Y120612-000
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Sheet Number:
P-101.00

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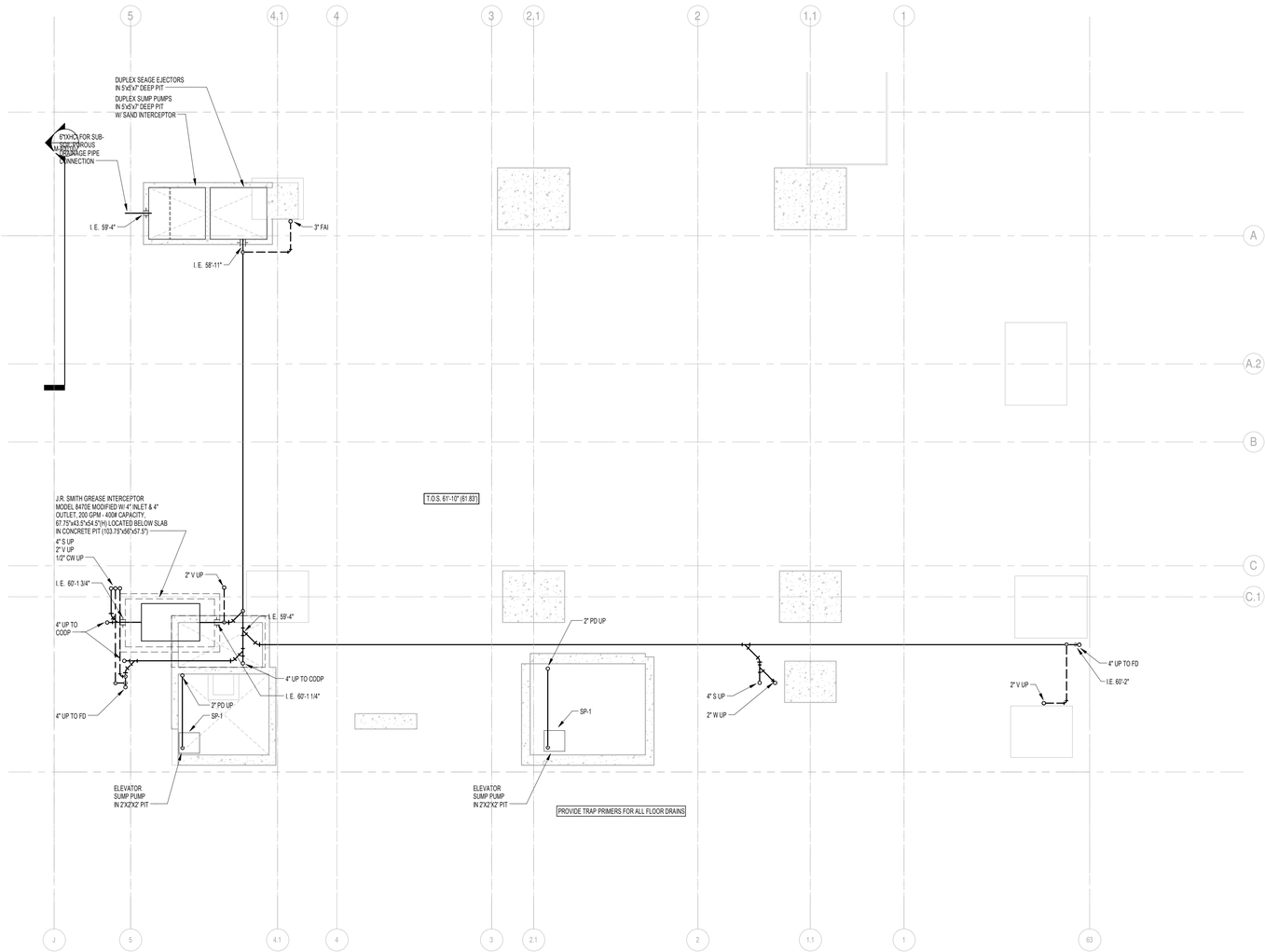

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Sheet Title:
PLUMBING UNDERGROUND PIPING PLAN

Project Number: Y120612-000
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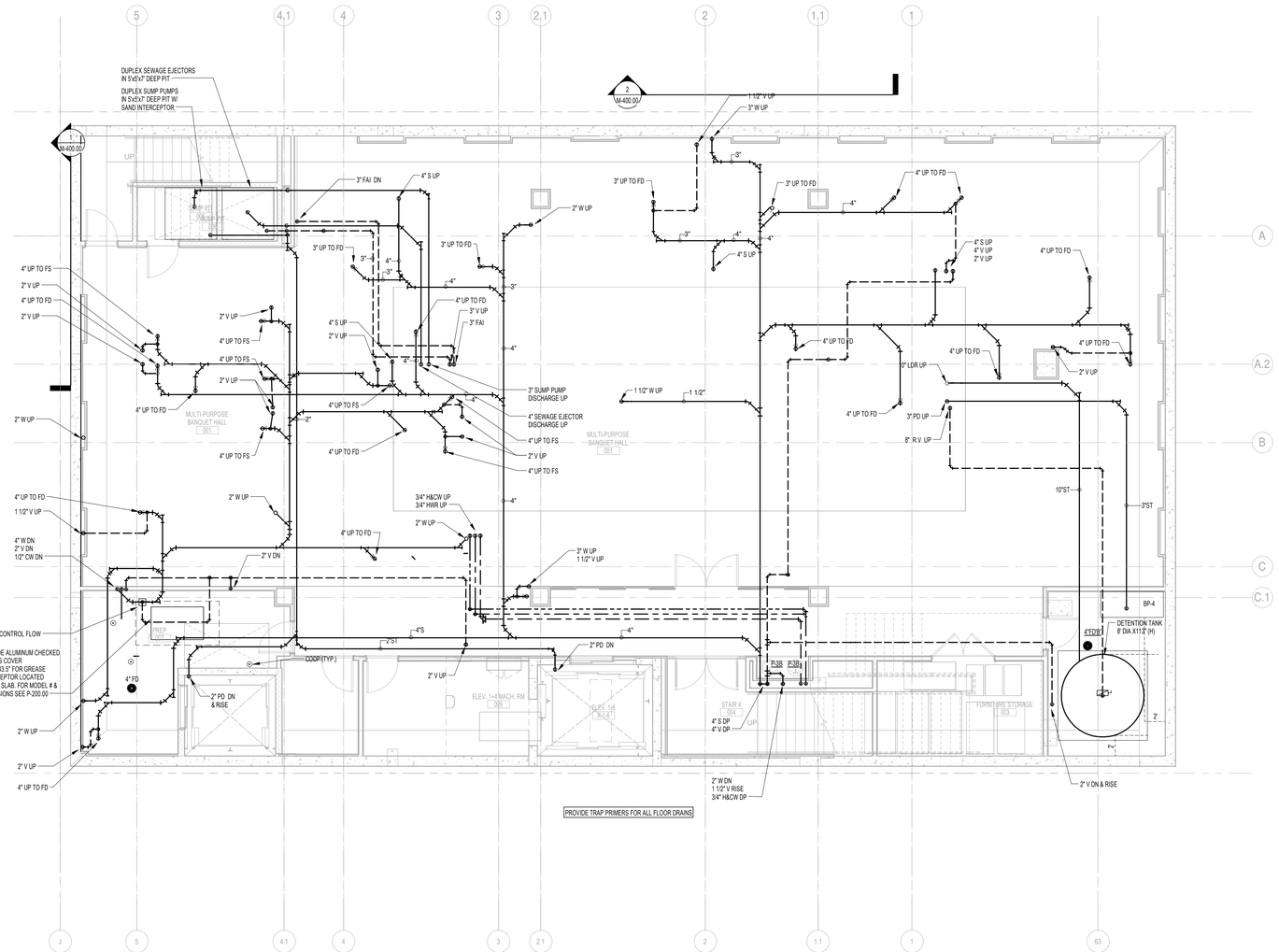

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Sheet Title:
PLUMBING SUB-CELLAR PLAN

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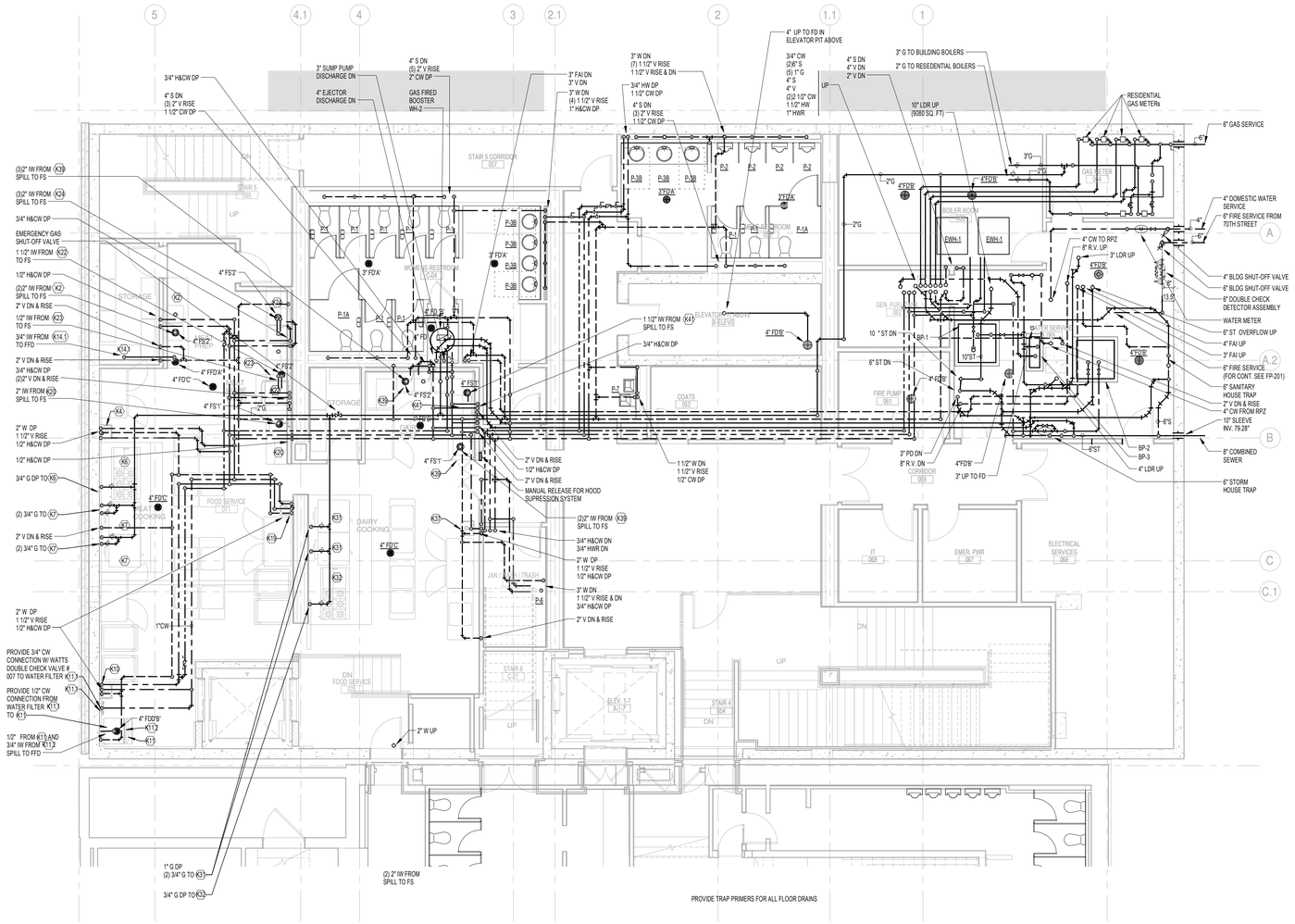

KITCHEN EQUIPMENT SCHEDULE

ITEM #	QTY.	DESCRIPTION	PLUMBING SERVICE CONNECTION HW	CW	W	IW	V	G	MBTU/H	REMARKS
K2	1	PREP TABLE W/ SINKS (DOUBLE COMP. 20"x20"x10"H)	1/2"	1/2"		(2)2"				I.W. TO FS
K4	1	HAND SINK (17.25"x15.25"x5"H)	1/2"	1/2"	1 1/2"		1-1/2"			
K6	1	COMBO RANGE W/ OVENS						3/4"	321.5	
K7	2	DBL. DECK CONVECTION OVENS						(2)3/4"	60	
K10	1	HAND SINK (17.25"x15.25"x5"H)	1/2"	1/2"	1 1/2"		1-1/2"			
K11	1	ICE MAKER		3/8"		1/2"				CW FROM FILTER; I.W. TO FD
K11.1	1	WATER FILTER		3/4"						
K11.2	1	ICE BIN				3/4"				I.W. TO FD
K14.1	1	BLOWER COIL				3/4"				I.W. TO FS
K19	1	HAND SINK (17.25"x15.25"x5"H)	1/2"	1/2"	1 1/2"		1-1/2"			
K20	1	SOILED DISH TABLE W/ SINK (20"x20"x5")	1/2"	1/2"		2"				I.W. TO FS
K22	1	WAREWASHER (TANK CAPACITY - 14 GAL)	3/4"	3/4"		1-1/2"				I.W. TO FS
K23	1	CONDENSATE HOOD				1/2"				I.W. TO FS
K24	1	DISH TABLE W/ SINKS (3-COMP. 20"x20"x14")	(2)1/2"	(2)1/2"		(3)2"				I.W. TO FS
K31	2	DBL. DECK CONVECTION OVENS						(2)3/4"	60	
K32	1	COMBO RANGE W/ OVENS						3/4"	321.5	
K37	1	HAND SINK (17.25"x15.25"x5"H)	1/2"	1/2"	1 1/2"		1-1/2"			
K39	1	TABLE W/ SINKS (3-COMP. 20"x20"x14" AND 2-COMP 20"x20"x10")	(3)1/2"	(3)1/2"		(5)2"				I.W. TO FS
K41	1	UNDERCOUNTER DISHWASHER (TANK CAPACITY - 2.9 GAL)	3/4"	3/4"		5/8"				

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Sheet Title:
PLUMBING CELLAR LEVEL PLAN

Project Number: Y120612-000
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Sheet: 5 of 21

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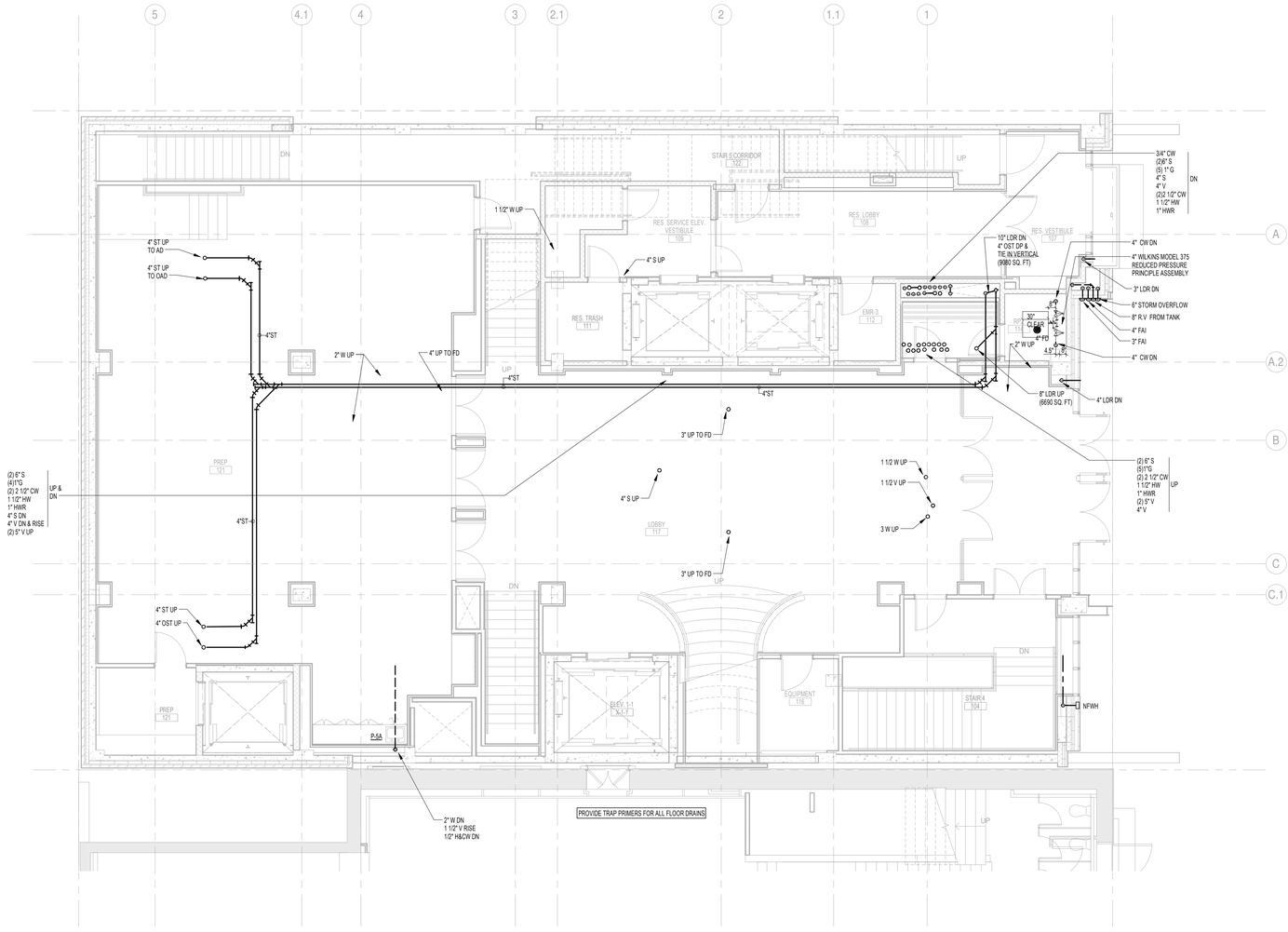

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Sheet Title:
PLUMBING 1ST FLOOR PLAN

Project Number: Y120612-000
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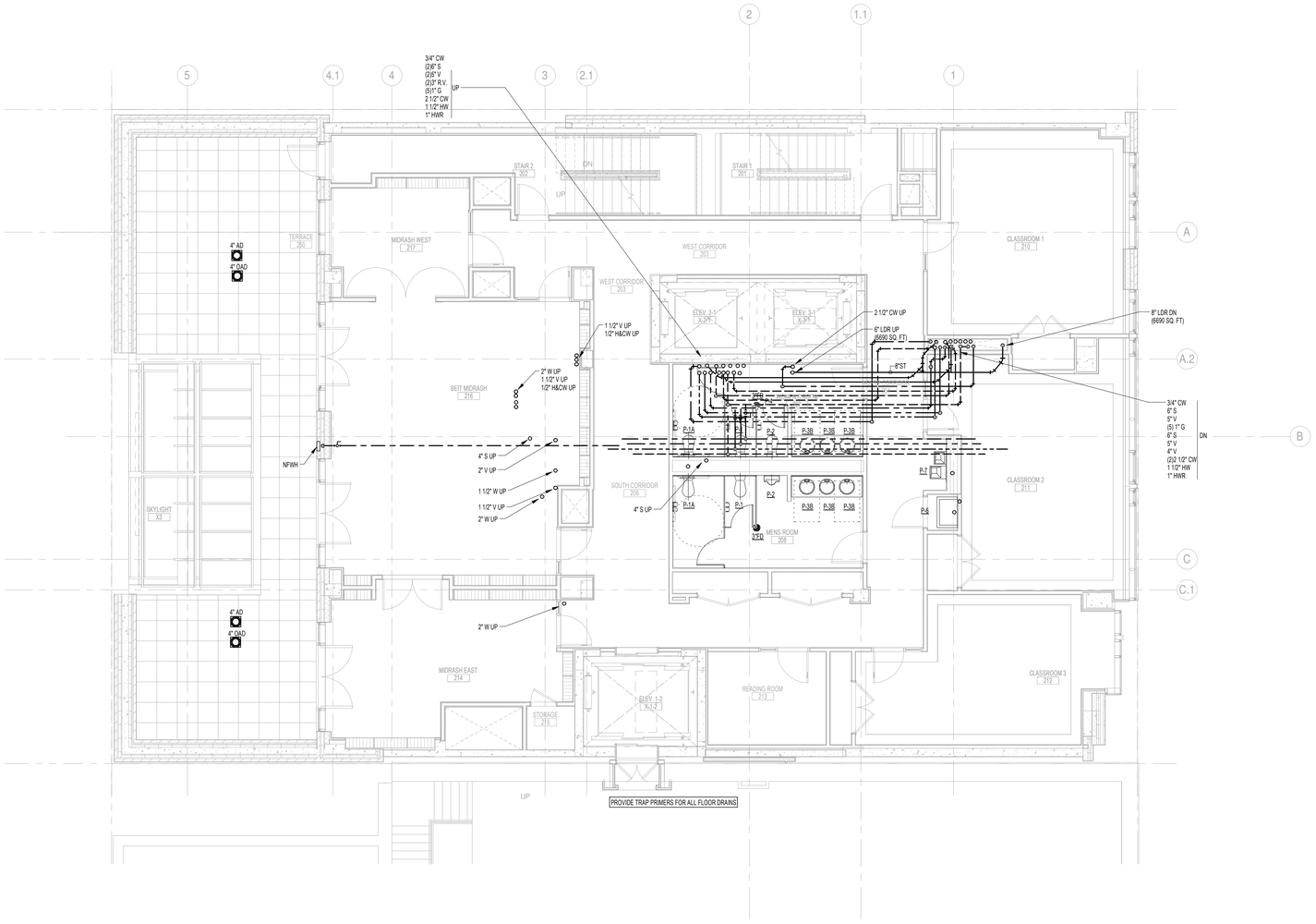

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Date: 05/04/2015
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Date:	No.:	Description:
08/06/2014	6	DOB FILING SET
03/03/2014	5	DOB FILING SET
01/31/2014	4	GUARANTEED MAXIMUM PRICE
01/10/2014	3	REVISED 80% PRICING SET
07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
8 West 70th St

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Sheet Title:
PLUMBING 2ND FLOOR PLAN

Project Number: Y120612-000
Drawn By: TS
Checked By: JL
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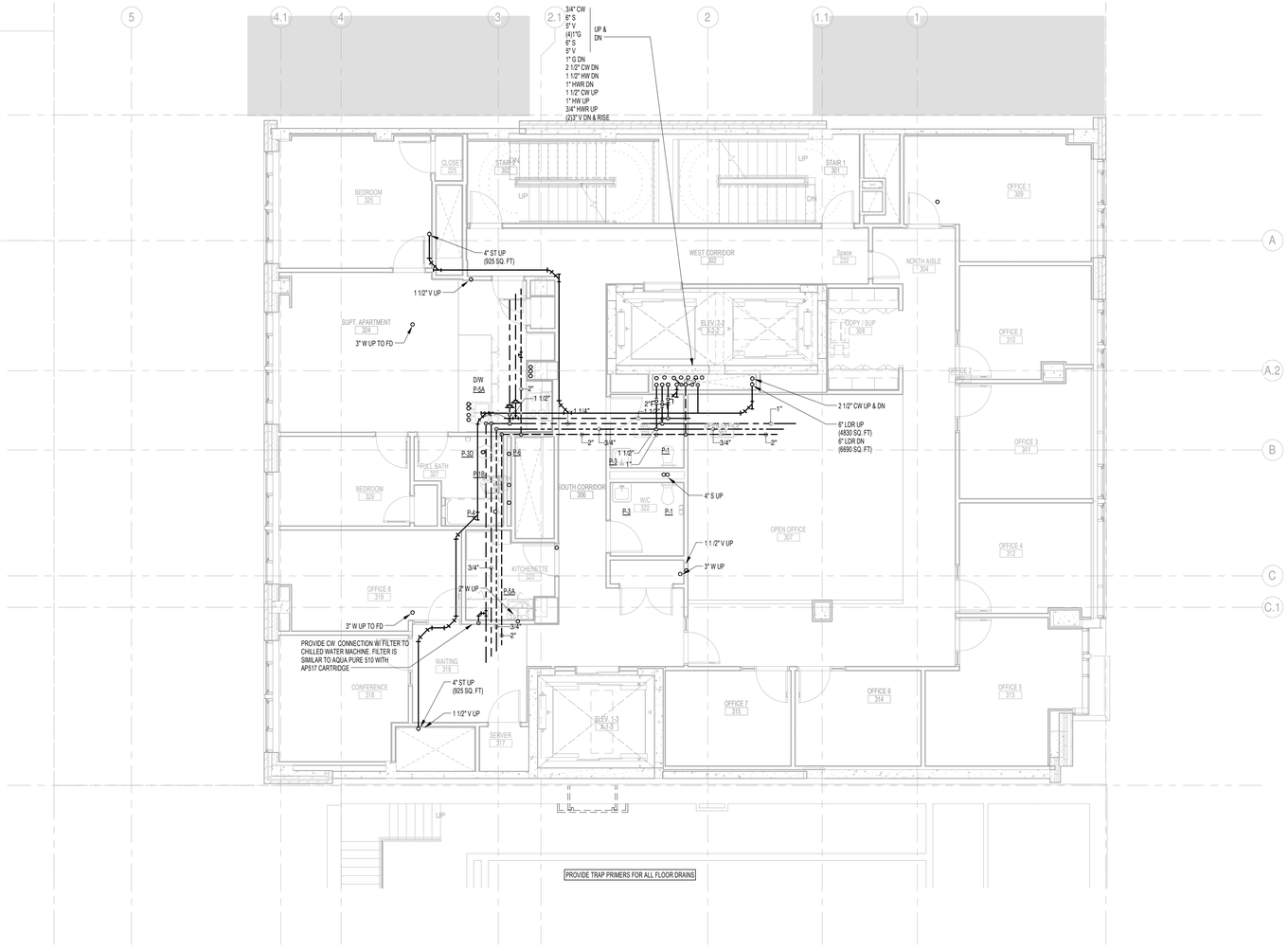
Signature & Seal:

Sheet Number:
P-202.00

NYC DOB Number:
Sheet: 7 of 21



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Date:	No.:	Description:
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07/01/2013	2	PRICING SET
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Project:
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Sheet Title:
PLUMBING 3RD FLOOR PLAN

Project Number: Y120612-000
Drawn By: TS
Checked By: JL
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NYC DOB Number:
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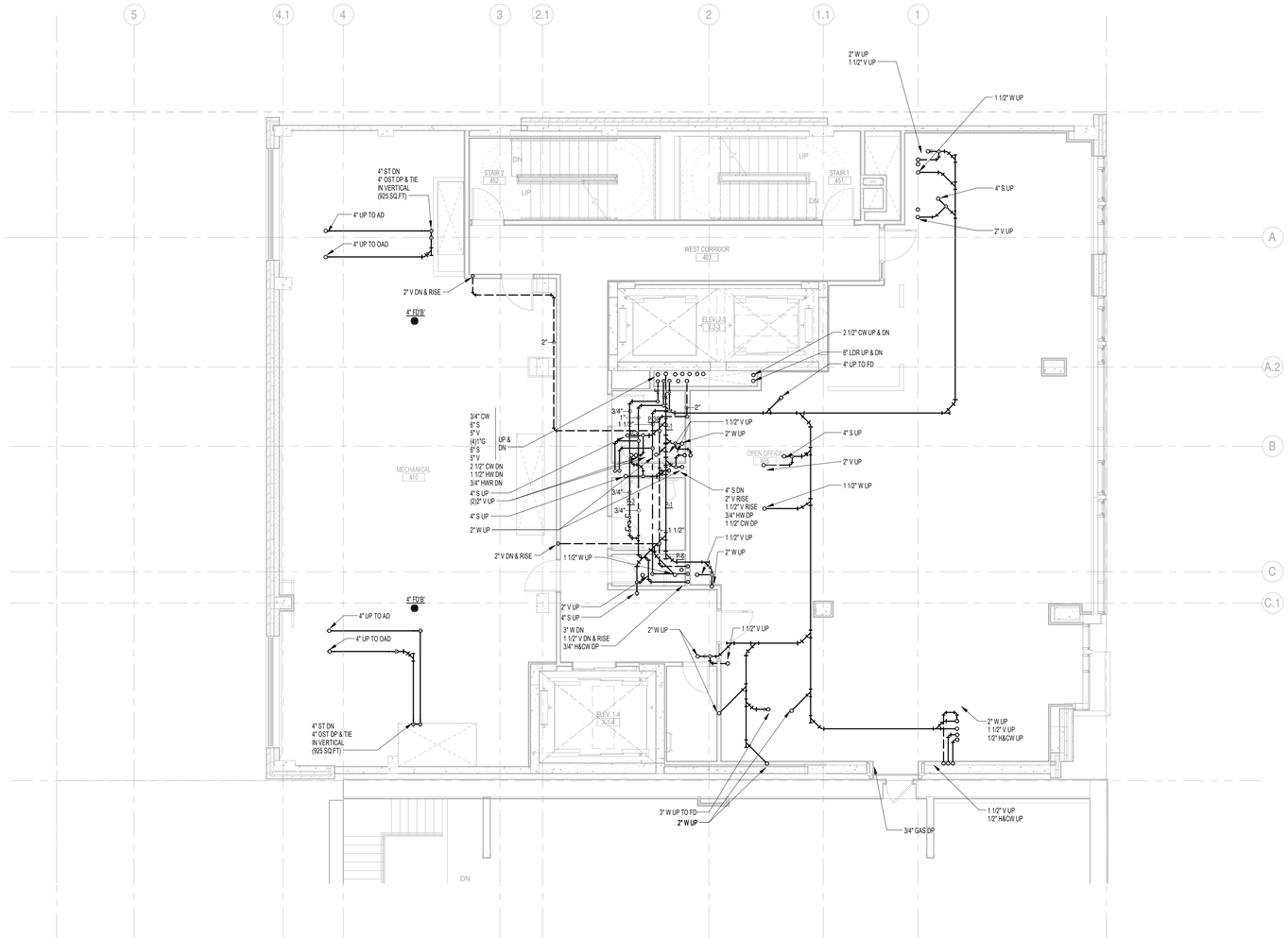

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NYC Development Hub

Date:	No.:	Description:
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01/10/2014	3	REVISED 80% PRICING SET
07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
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New York, NY 10023

Sheet Title:
PLUMBING 4TH FLOOR PLAN

Project Number: Y120612-000
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Checked By: JL
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NYC DOB Number:
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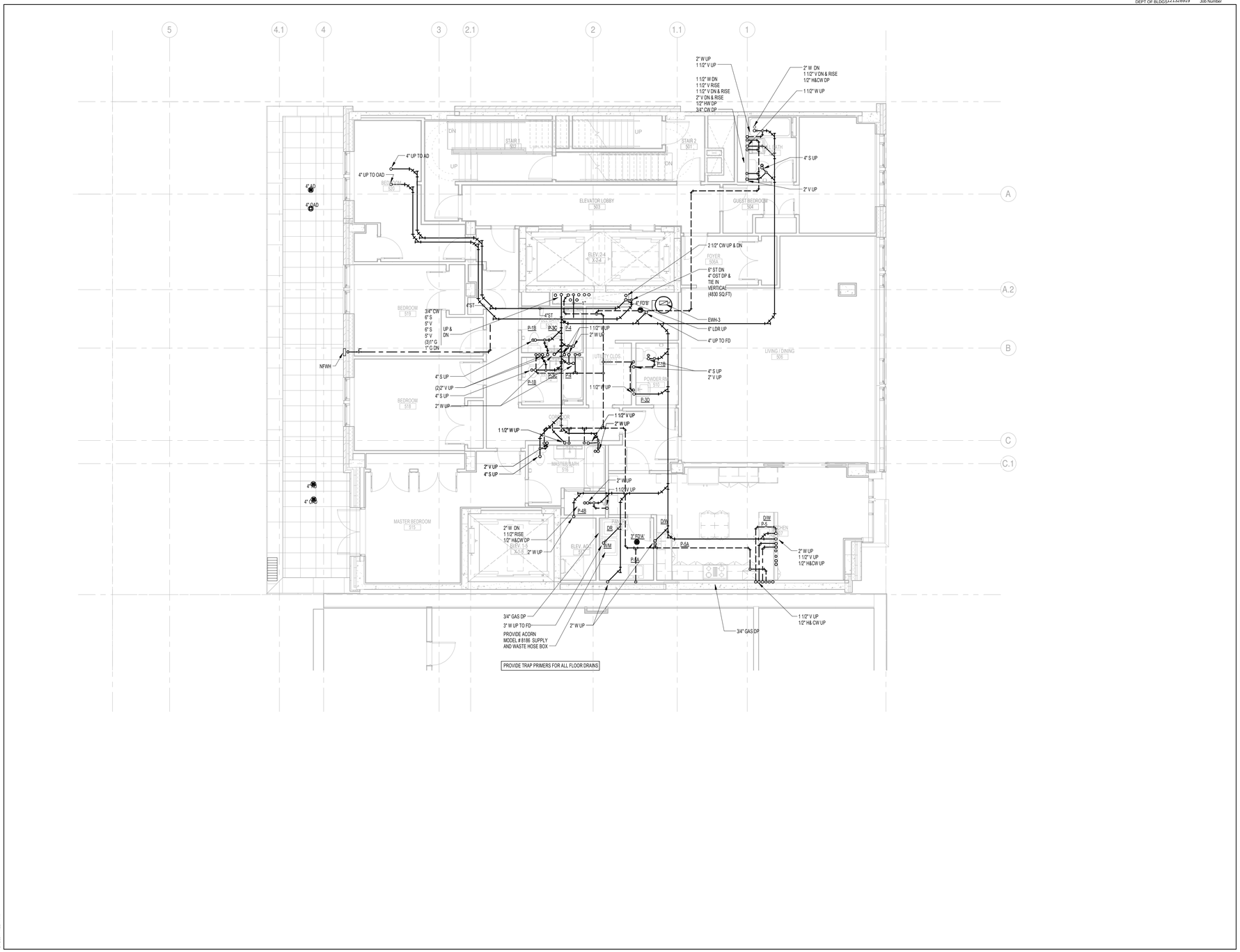

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Date:	No.:	Description:
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04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
8 West 70th St

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Sheet Title:
PLUMBING 5TH FLOOR PLAN

Project Number: Y120612-000
Drawn By: TS
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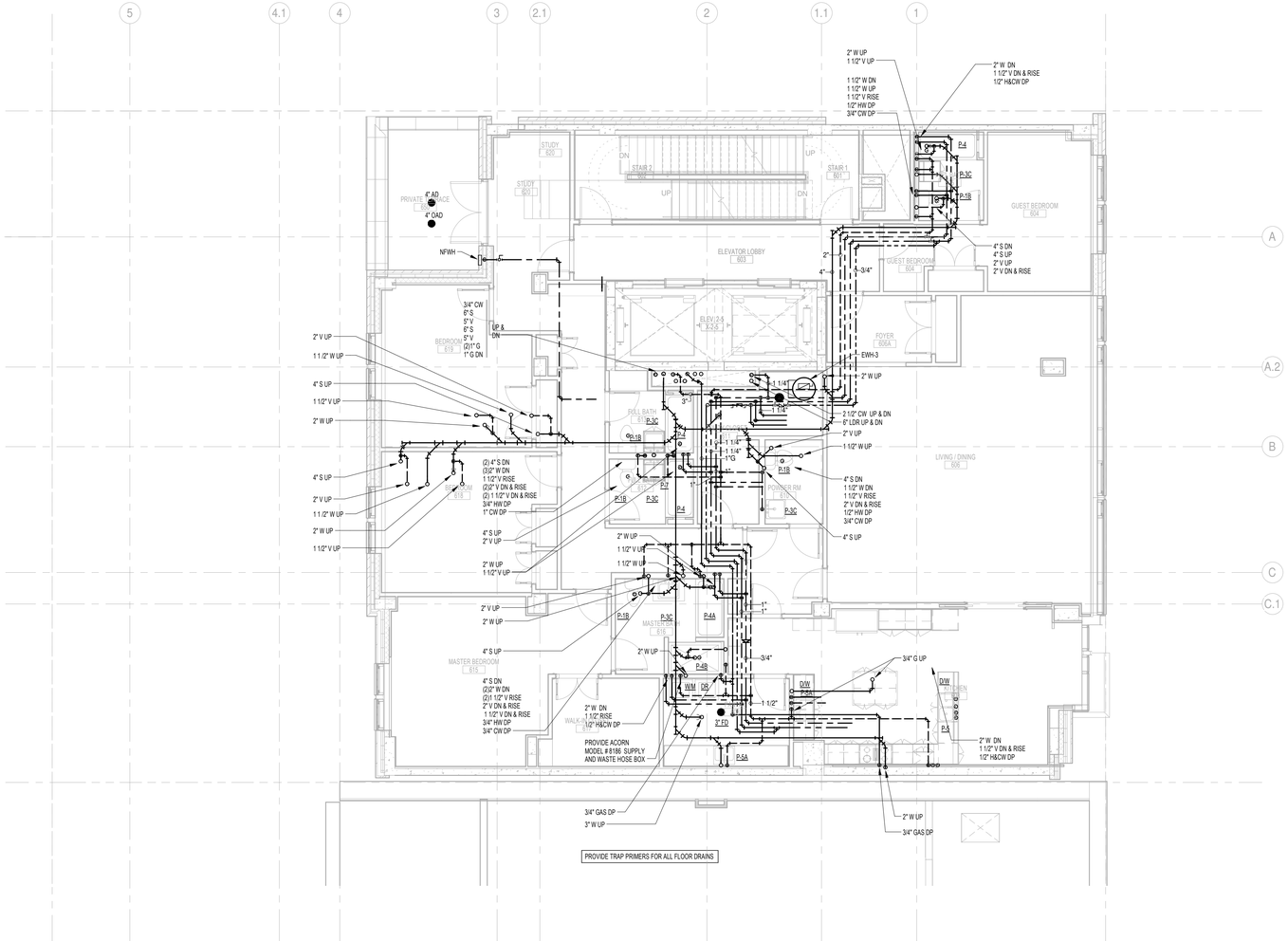
Signature & Seal:

Sheet Number:
P-205.00

NYC DOB Number:
Sheet: 10 of 21



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03/03/2014	5	DOB FILING SET
01/31/2014	4	GUARANTEED MAXIMUM PRICE
01/10/2014	3	REVISED 80% PRICING SET
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04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
8 West 70th St

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Sheet Title:
PLUMBING 6TH FLOOR PLAN

Project Number: Y120612-000
Drawn By: TS
Checked By: JL
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Sheet Number:
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NYC DOB Number:
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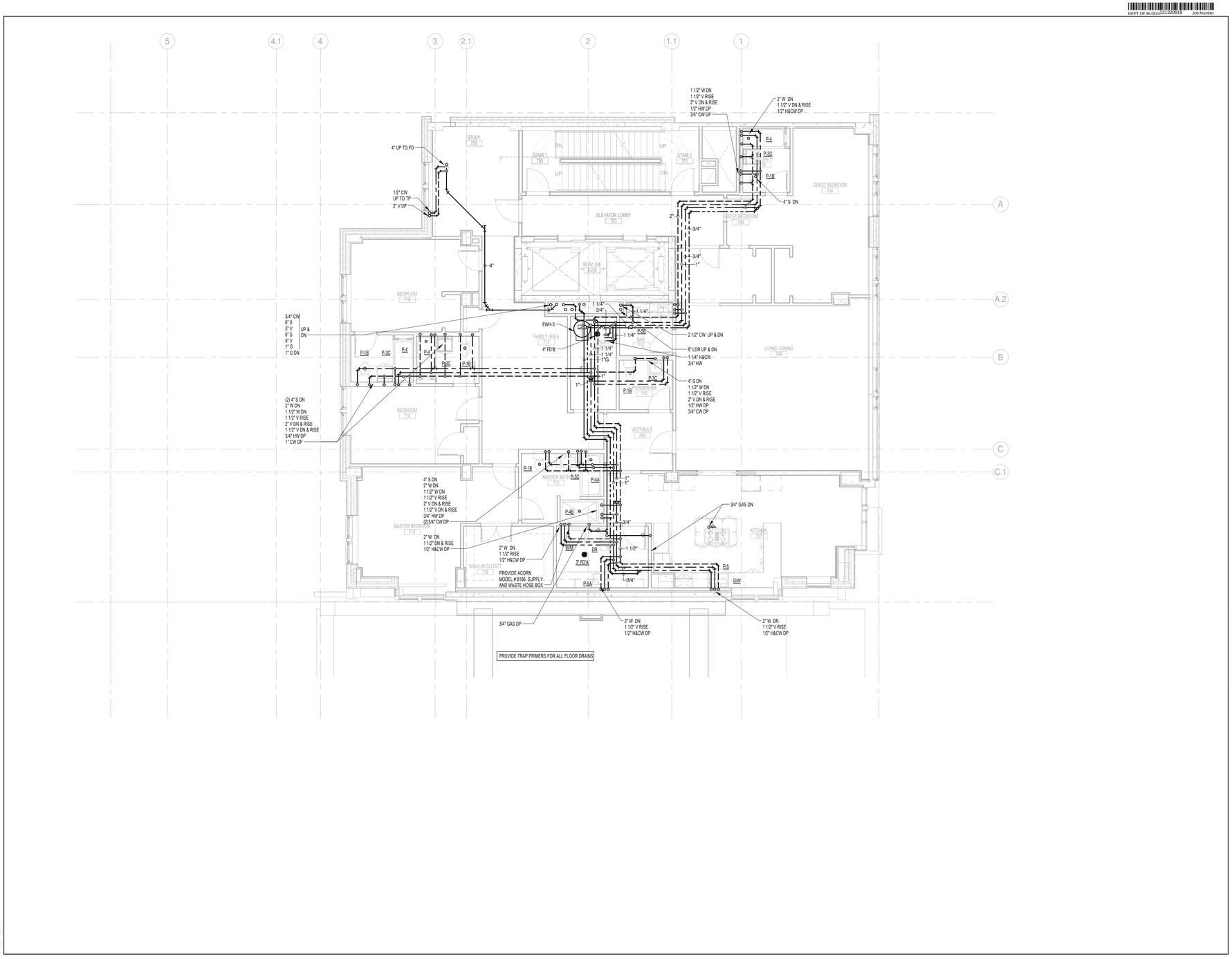

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Date:	No.:	Description:
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Project:
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Sheet Title:
PLUMBING 7TH FLOOR PLAN

Project Number: Y120612-000
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Checked By: JL
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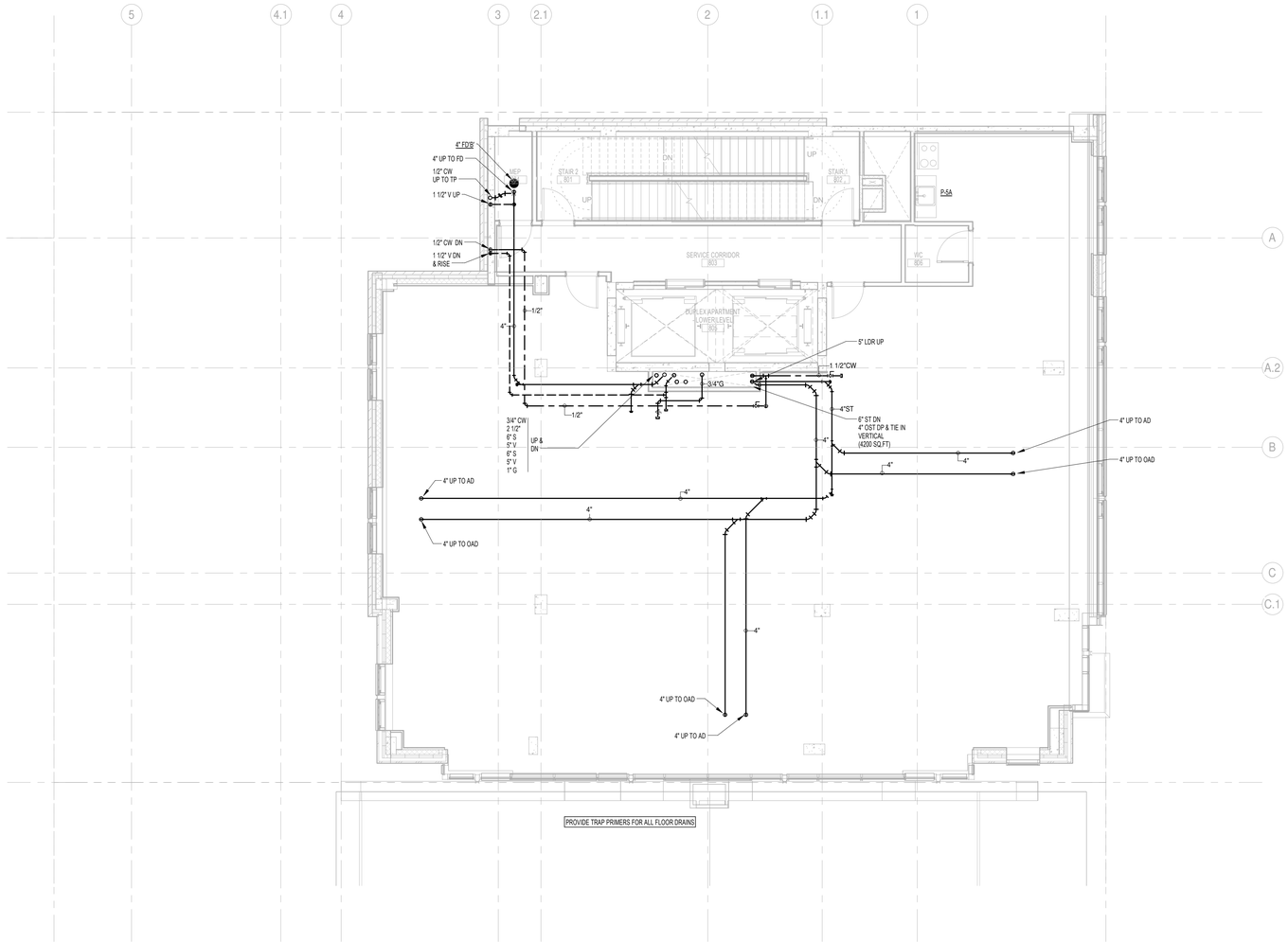

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Date: 05/04/2015
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Date:	No.:	Description:
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Project:
8 West 70th St

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Sheet Title:
PLUMBING 8TH FLOOR PLAN

Project Number: Y120612-000
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Checked By: JL
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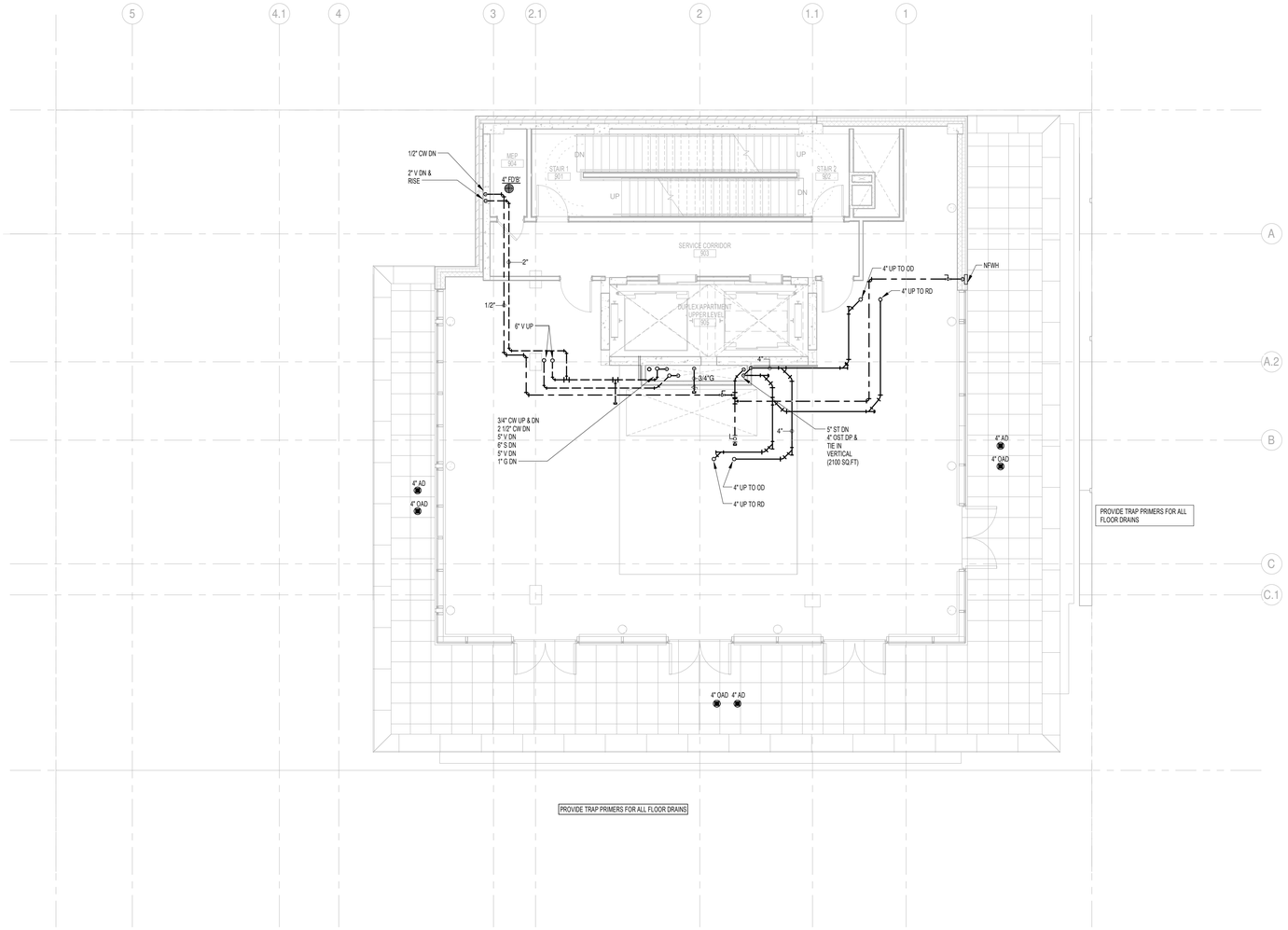

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Date:	No.:	Description:
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01/10/2014	3	REVISED 80% PRICING SET
07/01/2013	2	PRICING SET
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Project:
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Sheet Title:
PLUMBING 9TH FLOOR PLAN

Project Number: Y120612-000
Drawn By: TS
Checked By: JL
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Signature & Seal:

Sheet Number:
P-209.00

NYC DOB Number:
Sheet: 14 of 21

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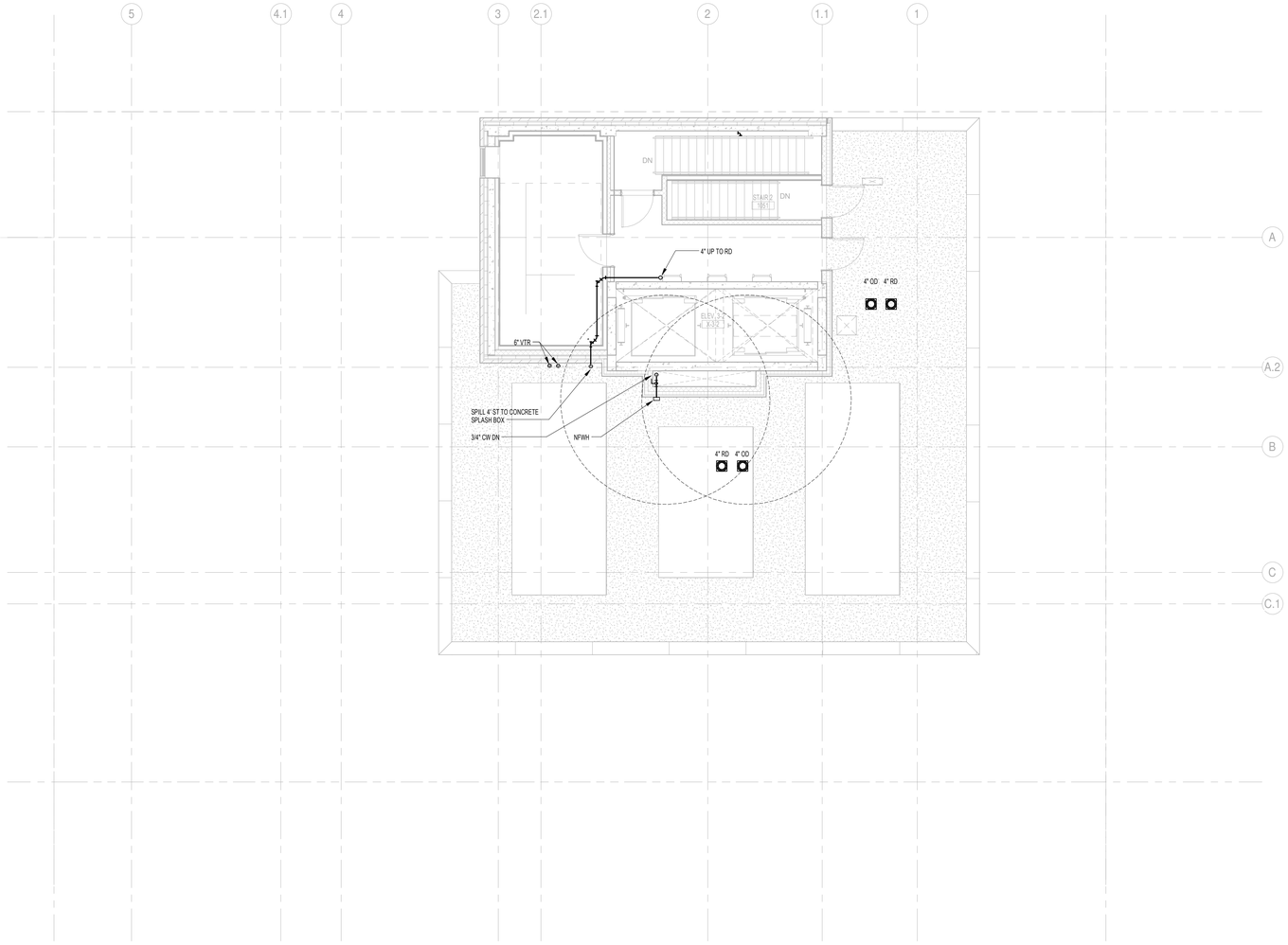

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04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
8 West 70th St

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Sheet Title:
PLUMBING ROOF LEVEL PLAN

Project Number: Y120612-000
Drawn By: TS
Checked By: JL
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Sheet Number:
P-210.00

NYC DOB Number:
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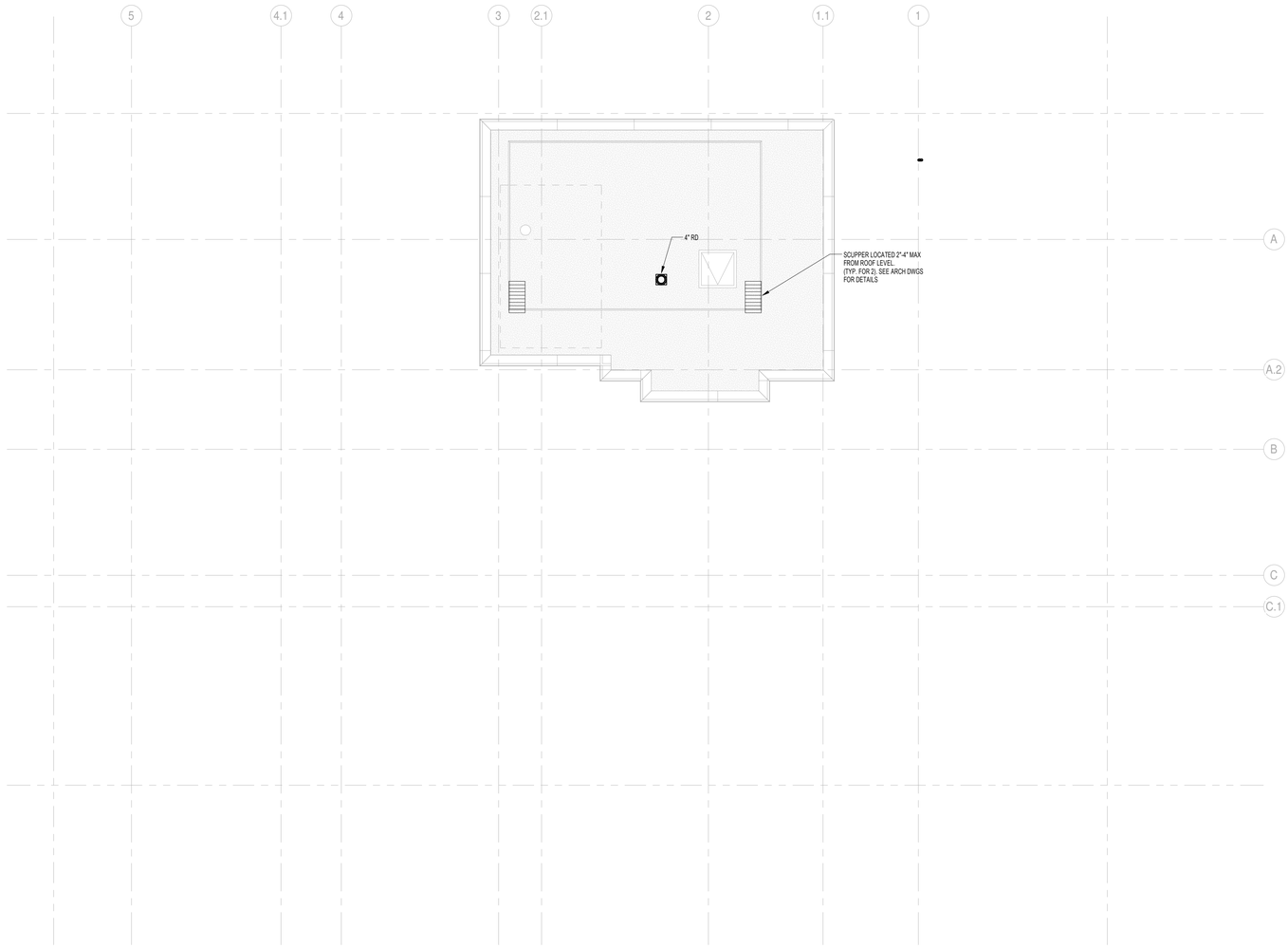
Opp. Ex. 1001 Page 155 of 205



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01/10/2014	3	REVISED 80% PRICING SET
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04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
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Sheet Title:
PLUMBING BULKHEAD PLAN

Project Number: Y120612-000
Drawn By: TS
Checked By: JL
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NYC DOB Number:
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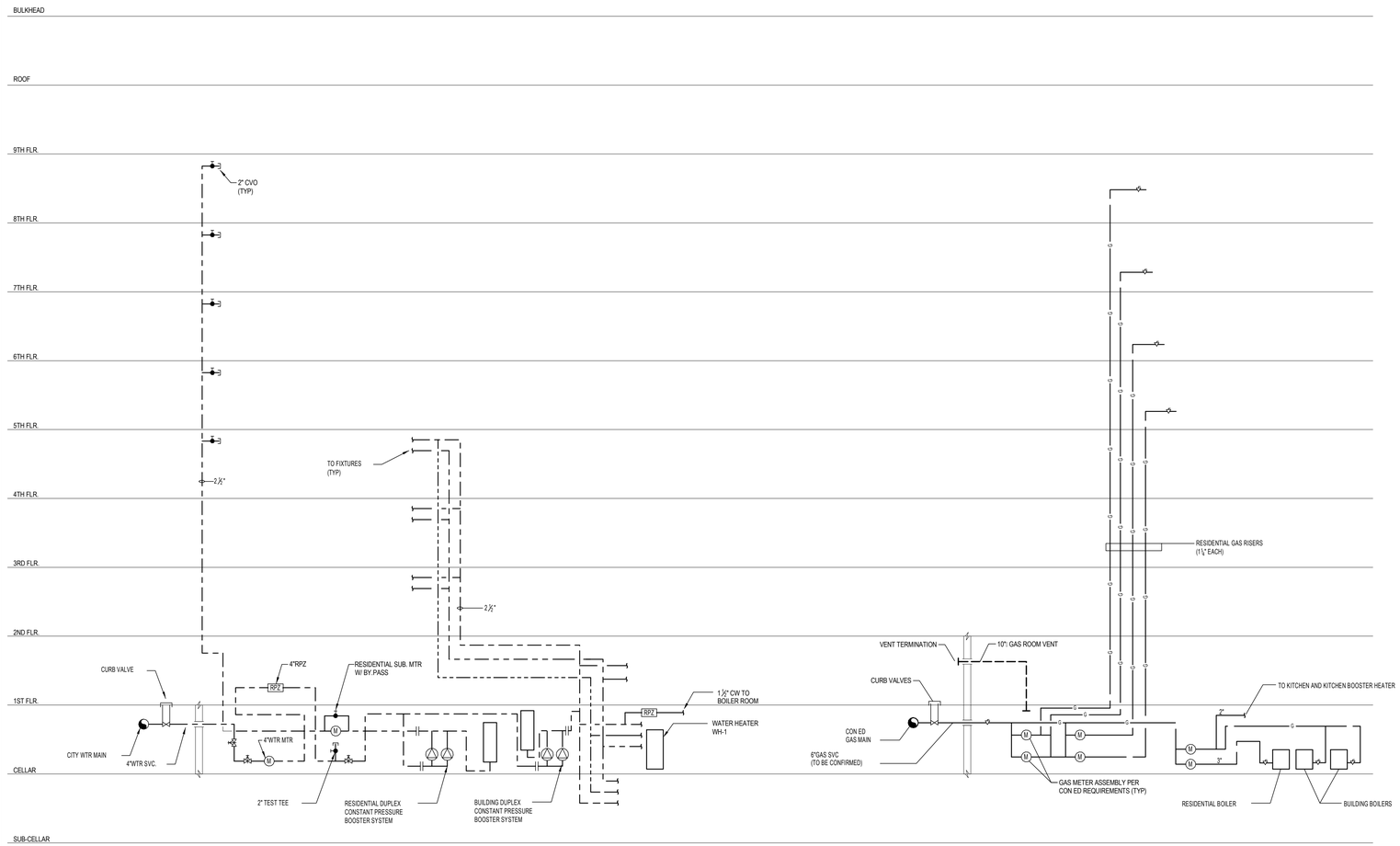

DOMESTIC WATER
SCALE: NTS

NATURAL GAS
SCALE: NTS

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Date:	No.:	Description:
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07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
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Sheet Title:
PLUMBING DOMESTIC WATER & NATUAL GAS RISER DIAGRAMS

Project Number: Y120612-000
Drawn By: TS
Checked By: JL
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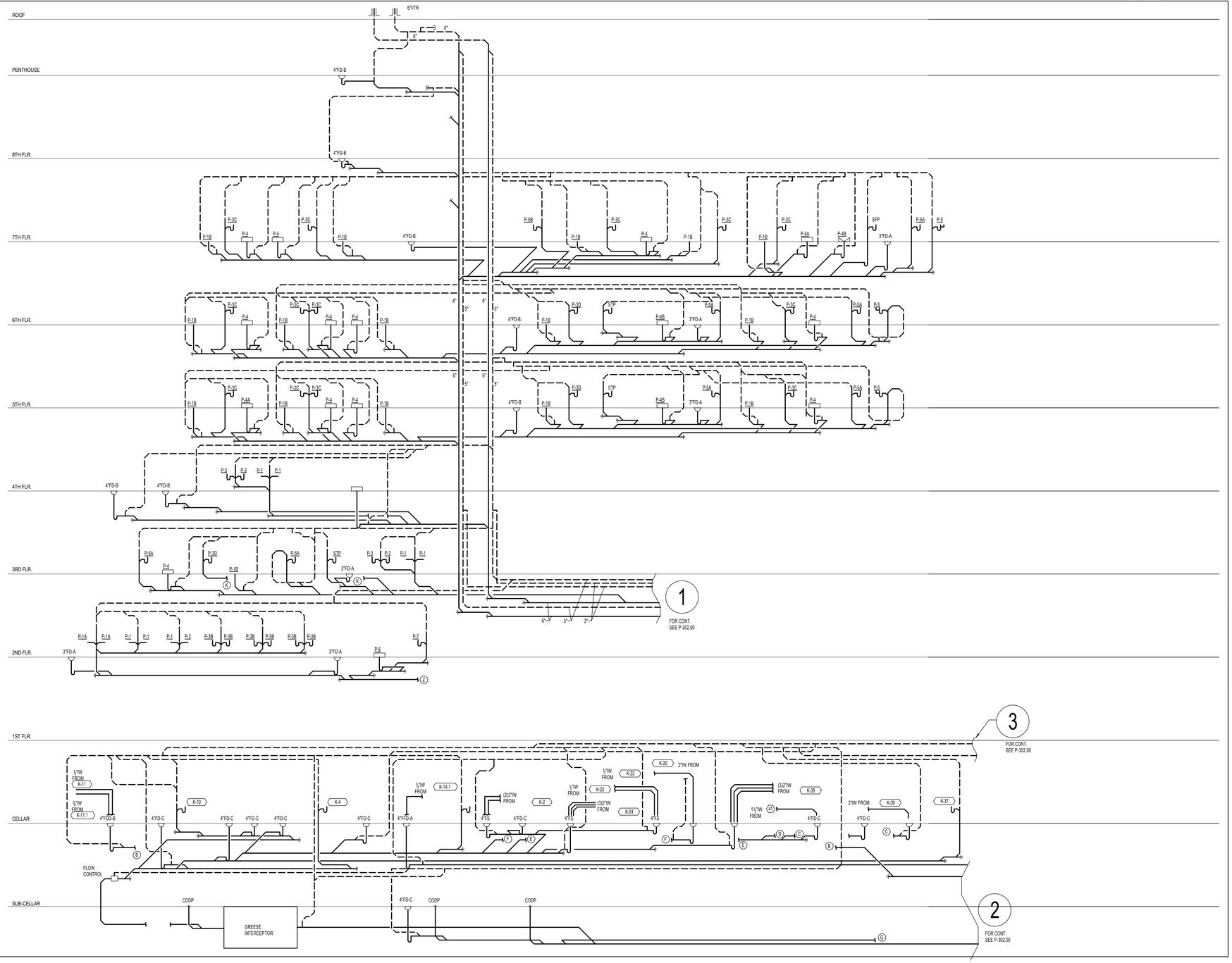
Signature & Seal:

Sheet Number:
P-300.00

NYC DOB Number:
Sheet: 17 of 21



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Date: 05/04/2015
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01/31/2014	4	GUARANTEED MAXIMUM PRICE
01/10/2014	3	REVISED 80% PRICING SET
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Date:	*No.:*	*Description:*

Project:
8 West 70th St

8 West 70th Street
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Sheet Title:
PLUMBING SANITARY RISER DIAGRAM

Project Number: Y120612-000
Drawn By: TS
Checked By: JL
Scale: 12" = 1'-0"

Signature & Seal:
STATE OF NEW YORK — JOSEPH LANDOLINA — 029475 — LICENSED PROFESSIONAL ENGINEER

Sheet Number:
P-301.00

NYC DOB Number:

Sheet: 18 *of* 21

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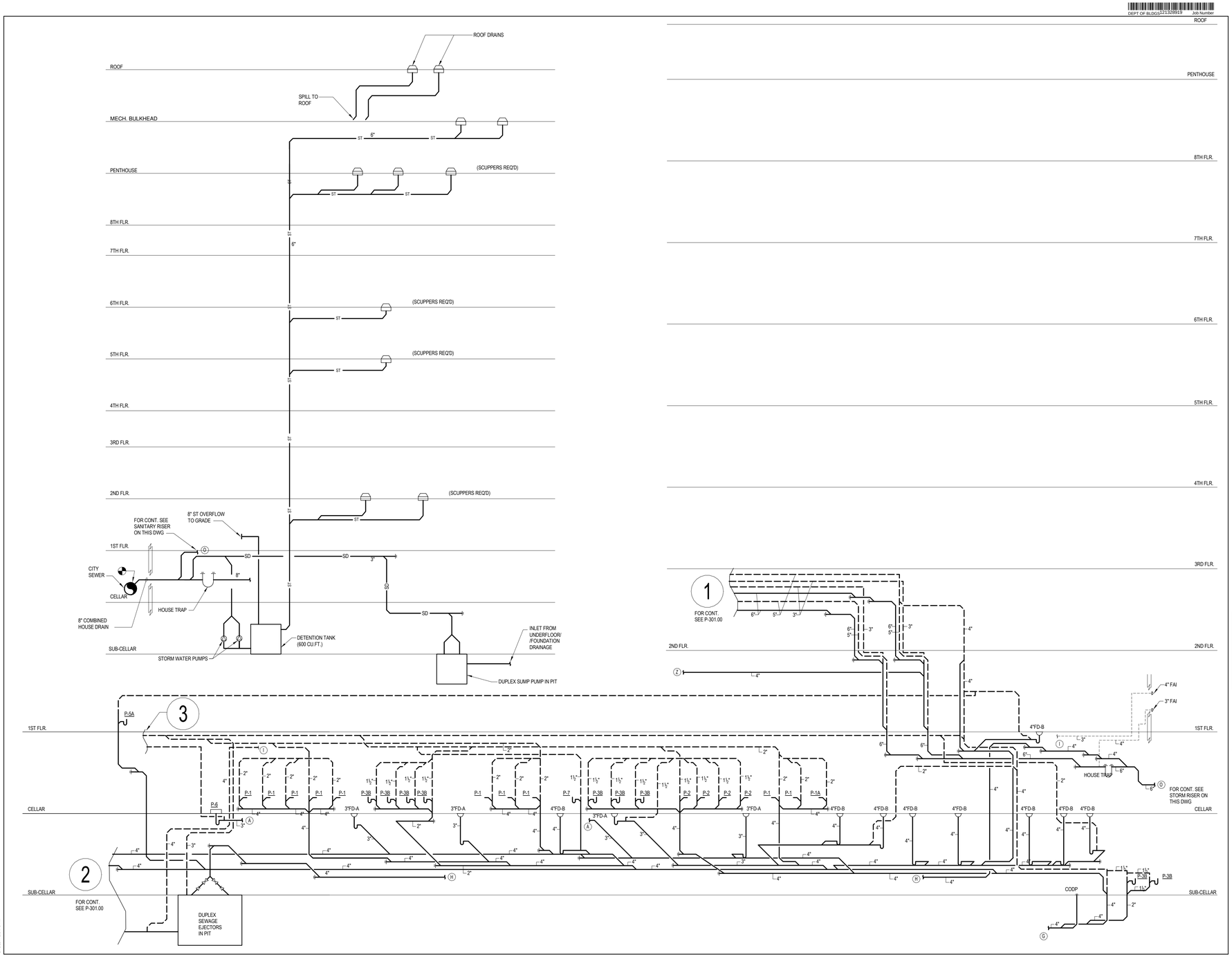

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Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08/06/2014	1	DOB FILING SET

Project:
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Sheet Title:
PLUMBING SANITARY & STORM RISER DIAGRAMS

Project Number: Y120612-000
Drawn By: TS
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Scale: 12" = 1'-0"

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Sheet Number:
P-302.00

NYC DOB Number:

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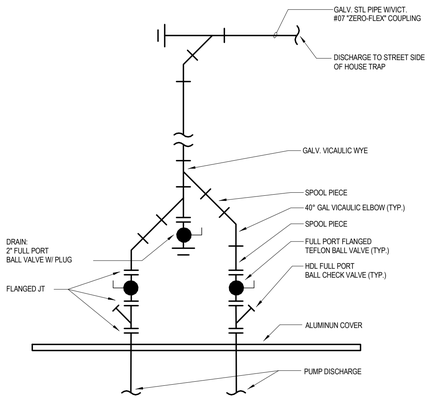
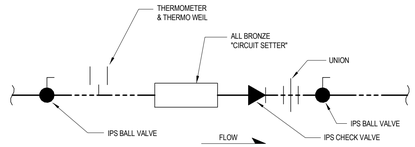


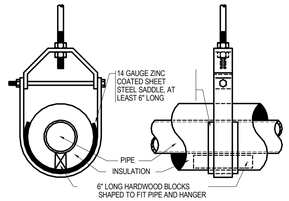
ELEVATION OF SUMP & EJECTOR DISCHARGE

N.T.S.



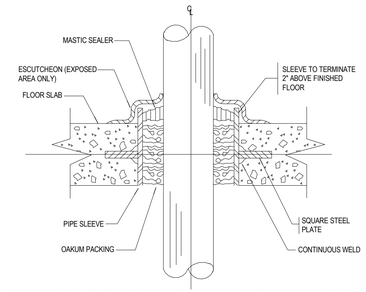
HWR BALANCING ASSEMBLY

N.T.S.



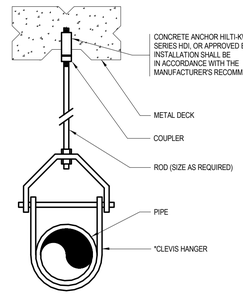
INSTALLATION DETAIL AT HANGER

N.T.S.



PIPE SLEEVE THRU WATERPROOF FLOOR SLAB

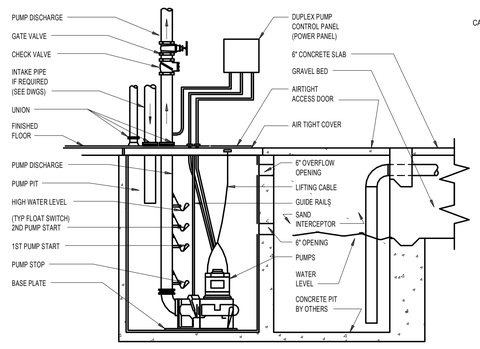
SCALE: NONE



* CLEVIS HANGERS REQUIRED ON PIPING LARGER 1". GENERAL PURPOSE HANGERS MAY BE USED ON PIPING 1" OR SMALLER.

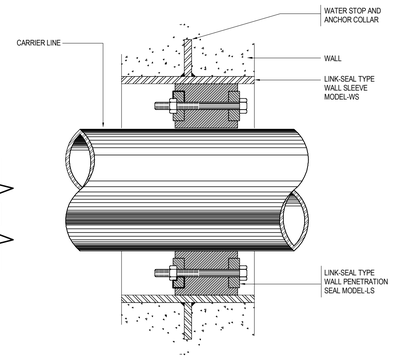
TYPICAL HANGER DETAIL

N.T.S.



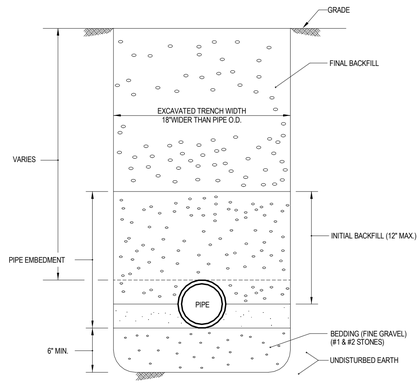
DUPLEX SUMP PUMP

N.T.S.



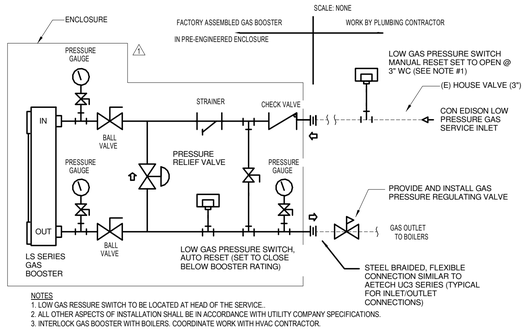
LINK-SEAL TYPE WALL PENETRATION ASSEMBLY

SCALE: NONE



PIPE TRENCH CROSS SECTION (TYP)

SCALE: NONE



NOTES
1. LOW GAS RESSURE SWITCH TO BE LOCATED AT HEAD OF THE SERVICE.
2. ALL OTHER ASPECTS OF INSTALLATION SHALL BE IN ACCORDANCE WITH UTILITY COMPANY SPECIFICATIONS.
3. INTERLOCK GAS BOOSTER WITH BOILERS. COORDINATE WORK WITH HVAC CONTRACTOR.

SCHEMATIC OF GAS BOOSTER

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

08/06/2014	6	DOB FILING SET
03/03/2014	5	DOB FILING SET
01/31/2014	4	GUARANTEED MAXIMUM PRICE
01/10/2014	3	REVISED 80% PRICING SET
07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT
Date:	*No.:*	*Description:*

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:
PLUMBING DETAILS SHEET 1 of 2

Project Number: Y120612-000
Drawn By: TS
Checked By: JL
Scale: 12" = 1'-0"

Signature & Seal:

STATE OF NEW YORK
JOSEPH LANGSAM
079475
LICENSED PROFESSIONAL ENGINEER

Sheet Number:
P-400.00

NYC DOB Number:

Sheet: 20 of 21

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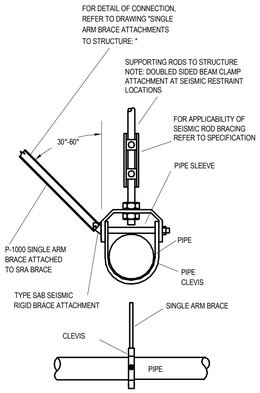
DEPT OF BLDGS 121329919 Job Number
ES9989915542 Scan Code

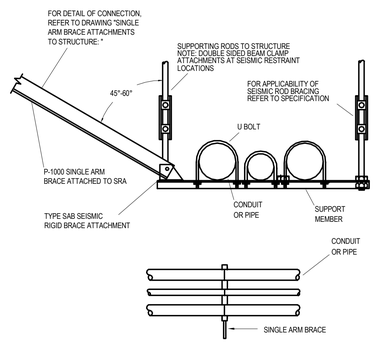


PLAN VIEW OF BRACE

NOTE: 1. SEE SPECIFICATION FOR RIGID BRACING DISTANCE REQUIREMENTS.
NOTE: 2. CANNOT BE USED WITH ISOLATION HANGERS.

TRANSVERSE ARM BRACE FOR CLEVIS HUNG PIPING

VMC INC. SPEC TYPE – RESTRAINT III

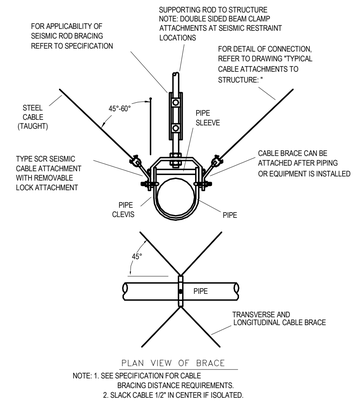


PLAN VIEW OF BRACE

NOTE: 1. SEE SPECIFICATION FOR RIGID BRACING DISTANCE REQUIREMENTS.
NOTE: 2. CANNOT BE USED WITH ISOLATION HANGERS.

TRANSVERSE SINGLE ARM BRACE FOR TRAPEZE HUNG PIPE AND CONDUIT

VMC INC. SPEC TYPE – RESTRAINT 17



PLAN VIEW OF BRACE

NOTE: 1. SEE SPECIFICATION FOR CABLE BRACING DISTANCE REQUIREMENTS.
2. SLACK CABLE 1/2" IN CENTER IF ISOLATED.

TRANSVERSE & LONGITUDINAL CABLE BRACE FOR CLEVIS HUNG PIPING & CONDUIT

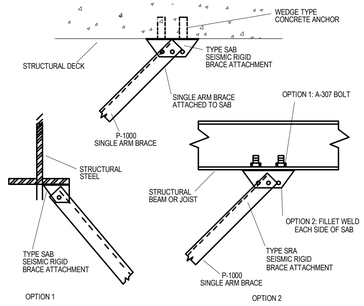
VMC INC. SPEC TYPE – RESTRAINT III

PLAN VIEW OF BRACE

NOTE: 1. SEE SPECIFICATION FOR CABLE BRACING DISTANCE REQUIREMENTS.
2. SLACK CABLE 1/2" IN CENTER IF ISOLATED.

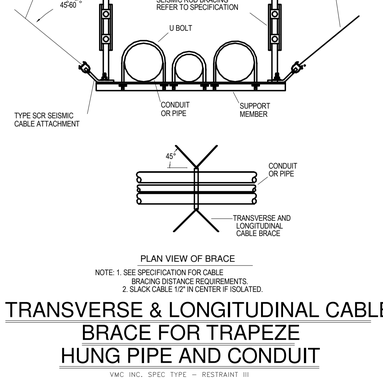
TYPICAL TRANSVERSE CABLE BRACE FOR CLEVIS HUNG PIPING & CONDUIT

VMC INC. SPEC TYPE – RESTRAINT III



SINGLE ARM BRACE ATTACHMENTS TO STRUCTURE

VMC INC. SPEC TYPE – RESTRAINT III



PLAN VIEW OF BRACE

NOTE: 1. SEE SPECIFICATION FOR CABLE BRACING DISTANCE REQUIREMENTS.
2. SLACK CABLE 1/2" IN CENTER IF ISOLATED.

TRANSVERSE & LONGITUDINAL CABLE BRACE FOR TRAPEZE HUNG PIPE AND CONDUIT

VMC INC. SPEC TYPE – RESTRAINT III

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PLUMBING DETAILS SHEET 2 of 2

Project Number: Y120612-000
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Signature & Seal:

Sheet Number:
P-401.00

NYC DOB Number:

Sheet: 21 of 21

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MECHANICAL SYMBOL LIST

HVAC DUCTWORK SYMBOLS

- SINGLE LINE DUCTWORK OR EQUIPMENT - NEW
- SINGLE LINE DUCTWORK OR EQUIPMENT - EXISTING
- EXISTING DUCTWORK TO BE REMOVED
- DUCTWORK WITH ACOUSTIC LINING
- DUCTWORK POSITIVE PRESSURE (SUPPLY AIR OR FAN DISCHARGE)
- DUCTWORK NEGATIVE PRESSURE (RETURN, EXHAUST OR OUTSIDE AIR)
- VD — VOLUME DAMPER
- FD — FIRE DAMPER AND ACCESS DOOR
- BDD — BACKDRAFT DAMPER
- M — AUTOMATIC DAMPER
- SD M — AUTOMATIC SMOKE DAMPER
- FSD M — COMBINATION SMOKE AND FIRE DAMPER WITH ACCESS DOOR
- R — RISE IN DUCTWORK (IN DIRECTION OF AIR FLOW)
- D — DROP IN DUCTWORK (IN DIRECTION OF AIR FLOW)
- ℄ — CENTERLINE
- ∮ OR CFM — CUBIC FEET PER MINUTE
- ø — DIAMETER
- SQUARE FEET
- OVAL DUCTWORK
- CD-D 400 ∮ — TYPE A CEILING DIFFUSER 400 CFM SUPPLY AIR
- 12x12 CD 400 ∮ — RECTANGULAR CEILING DIFFUSER WITH 12"x12" NECK 400 CFM SUPPLY AIR
- 10x8 CR(CG) 300 ∮ — 10" BY 8" CEILING REGISTER (CEILING GRILLE) 300 CFM RETURN AIR
- RECTANGULAR DIFFUSER WITH BLANKING PLATE
- 10x8 TR 150 ∮ — 10" BY 6" TOP REGISTER, 150 CFM SUPPLY AIR
- 10x8 TR(TG) 150 ∮ — 10" BY 6" TOP REGISTER (TOP GRILLE) 150 CFM RETURN AIR
- 10x8 BR(BG) 150 ∮ — 10" BY 6" BOTTOM REGISTER (BOTTOM GRILLE) 150 CFM RETURN AIR
- VANED ELBOW (SEE DETAIL)
- VANED ELBOW (SEE DETAIL) OR RADIUS ELBOW
- FLEXIBLE DUCT
- SLOTTED LINEAR DIFFUSER WITH PLENUM
- DUCT FLEXIBLE CONNECTION
- VERTICAL DUCT DROP (IN DIRECTION OF AIR FLOW)
- VERTICAL DUCT RISE (IN DIRECTION OF AIR FLOW)
- VAV A — VARIABLE AIR VOLUME BOX TYPE A
- VAV A — VARIABLE AIR VOLUME BOX, TYPE A, WITH REHEAT COIL
- VAV A — VARIABLE AIR VOLUME BOX, TYPE A, WITH SOUND ATTENUATOR AND REHEAT COIL
- T — THERMOSTAT
- H — HUMIDISTAT
- SD — SMOKE DETECTOR
- H — HUMIDIFIER
- UC — RISE IN DUCTWORK (IN DIRECTION OF AIR FLOW)

HVAC GENERAL SYMBOLS

- POINT OF CONNECTION
- POINT OF DISCONNECTION
- DDCP — DIRECT DIGITAL CONTROL PANEL
- NEW STEEL CUT
- EXISTING STEEL CUT
- SECTION DESIGNATION / SHEET No. WHERE SECTION IS SHOWN
- SECTION DESIGNATION / SHEET No. WHERE SECTION IS SHOWN

HVAC STEAM SERVICES SYMBOLS

- R — RELIEF VALVE
- S — SAFETY VALVE
- PRESSURE REDUCING VALVE
- SYPHON
- TRAP (TYPE AS NOTED)
- CV — CONTROL VALVE STATION (SEE DETAIL)
- PRS — PRESSURE REDUCING VALVE STATION (SEE DETAIL)
- LPR — LOW PRESSURE CONDENSATE RETURN
- LPS — LOW PRESSURE STEAM
- HPR — HIGH PRESSURE CONDENSATE RETURN
- HPS — HIGH PRESSURE STEAM
- PC — PUMPED CONDENSATE

HVAC PIPING SYMBOLS

- NEW PIPE WITH DIRECTION OF FLOW
- EXISTING PIPING
- EXISTING PIPING TO BE REMOVED
- EXISTING PIPING TO BE ABANDONED
- PIPE DROP
- PIPE RISE
- U — PITCH UP IN DIRECTION OF FLOW
- D — PITCH DOWN IN DIRECTION OF FLOW
- UNION
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER - FLAT BOTTOM
- ECCENTRIC REDUCER - FLAT TOP
- FLANGED CONNECTION
- FLANGED END - BLIND FLANGE
- EXPANSION LOOP
- PIPE EXPANSION JOINT
- PIPE ALIGNMENT GUIDE
- PIPE ANCHOR
- GATE VALVE
- ANGLE GATE VALVE
- GLOBE VALVE
- ANGLE GLOBE VALVE
- NEEDLE VALVE COCK
- DRAIN VALVE
- LOCK SHIELD VALVE
- CHECK VALVE, SWING OR LIFT
- SILENT CHECK (NON-SLAM) VALVE
- FLEXIBLE CONNECTOR
- BUTTERFLY VALVE
- BALL VALVE
- SQUARE HEAD COCK
- BALANCING VALVE
- PLUG VALVE (TYPE AS NOTED)
- AUTOMATIC CONTROL VALVE
- THREE-WAY AUTOMATIC CONTROL VALVE
- "Y" TYPE STRAINER WITH BLOWOFF VALVE AND CAP
- THERMOMETER AND WELL
- PRESSURE GAUGE WITH SYPHON
- PUMP
- CWR — CONDENSER WATER RETURN
- CWS — CONDENSER WATER SUPPLY
- CHWR — CHILLED WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- HWR — HOT WATER RETURN
- HWS — HOT WATER SUPPLY
- DW — DOMESTIC WATER
- D — DRAIN

HVAC CENTRAL PLANT SERVICES SYMBOLS

- D — DIESEL ENGINE
- S — STEAM TURBINE
- G — GAS TURBINE
- S — STEAM TURBINE (CONDENSING)
- A / C — AIR TO AIR FIN HEAT EXCHANGER
- COOLING TOWER
- PROPELLER FAN
- BBD — BOTTOM BLOW DOWN
- BD — BLOW DOWN
- BFW — BOILER FEED WATER
- CA — COMPRESSED AIR
- CBD — CONTINUOUS BLOW DOWN
- CF — CHEMICAL FEED
- COND — CONDENSATE
- DFW — DEAERATOR FEED WATER
- G — GAS SUPPLY
- IA — INSTRUMENT AIR
- SBD — SURFACE BLOWDOWN
- TW — TREATED WATER

HVAC EQUIPMENT DESIGNATIONS

XXX-XX-XX
- EQUIPMENT TAG NUMBER
- FLOOR DESIGNATION
- EQUIPMENT DESIGNATION

ACU-2-3
- UNIT NUMBER 3
- SECOND FLOOR
- AIR CONDITIONING UNIT

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ABBREVIATIONS

A	AMPERES
AAV	AUTOMATIC AIR VENT
AC	AIR CONDITIONING
ACCU	AIR COOLED CONDENSING UNIT
ACS	AUTOMATIC CONTROL SYSTEM
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AF	AFTER FILTER
AFDW	AIR FOIL DOUBLE WIDTH
AFF	ABOVE FINISHED FLOOR
AFMS	AIR FLOW MONITORING STATION
AFSW	AIR FOIL SINGLE WIDTH
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMCS	AUTOMATED MONITORING AND CONTROL SYSTEM
AP	ACCESS PANEL
BAD	BOTTOM ANGULAR DISCHARGE
BD	BLOW DOWN
BF	BOOSTER FAN
BFP	BOTTOM GRILLE
BG	BOILER FEED PUMP
BHD	BOTTOM HORIZONTAL DISCHARGE
BHP	BRAKE HORSEPOWER
BIDW	BACKWARD INCLINE DOUBLE WIDTH
BISW	BACKWARD INCLUDE SINGLE WIDTH
BMS	BUILDING MANAGEMENT SYSTEM
BR	BOTTOM REGISTER
BT	BOTTOM THROAT
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
C	CONVERTOR
CAC	CONTROL AIR COMPRESSOR
CC	COOLING COIL
CCP	CENTRAL CONTROL PANEL
CCW	COUNTER CLOCKWISE
CD	CEILING DIFFUSER
CFFC	CAP FOR FUTURE CONNECTION
CFM	CUBIC FEET PER MINUTE
CFP	CHEMICAL FEED PUMP
CG	CEILING GRILLE
CH	CHILLER
CHWP	CHILLED WATER PUMP
CLG	CEILING
COD	CLEAN-OUT DOOR
COMPR	COMPRESSOR
COND	CONDENSATE
COV	CHAIR OPERATED VALVE
CP	CONDENSATE PUMP
CPA	CONTROL POINT ADJUSTMENT
CPU	CONDENSATE PUMP UNIT
CR	CEILING REGISTER
CT	COOLING TOWER
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
CW	CLOCKWISE
CWP	CONDENSER WATER PUMP
°C	DEGREES CENTIGRADE (CELSIUS)
D	DROP
DB	DRY BULB
DBD	DOWN BLAST DISCHARGE
DF	DUCT FURNACE UNIT
DFWP	DEARATOR FEED WATER PUMP
DG	DIESEL GENERATOR
DHW	DOMESTIC HOTER WATER
DMPR	DAMPER
DN	DOWN
DOP	DIESEL OIL PUMP
DWG	DRAWING
DX	DIRECT EXPANSION
ø,DIAM	DIAMETER
(E)	EXISTING TO REMAIN
(ER)	EXISTING TO BE REMOVED
(ERR)	EXISTING TO BE REMOVED & RELOCATED
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EDR	EQUIVALENT DIRECT RADIATION
EF	EXHAUST FAN
EL	ELEVATION
ELEC	ELECTRIC
ELEV	ELEVATOR
EQ	EQUAL
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EWB	ENTERING WET BULB
EWT	ENTERING WET TEMPERATURE
EXH	EXHUAST
EXIST	EXISTING
EXP	EXPANSION
F	FILTER
F&T	FLOAT AND THERMOSTATIC
FA	FREE AREA (SQ.FT.)
FC	FLEXIBLE CONNECTION
FCDW	FORWARD CURVED DOUBLE WIDTH
FCSW	FORWARD CURVED SINGLE WIDTH
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FF	FINAL FILTER
FG	FINISHED GRADE
FIN FL	FINISHED FLOOR
FLA	FULL LOAD AMPERES
FOP	FUEL OIL PUMP
FOT	FUEL COIL TANK
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FR	FLOOR REGISTER
FT	FEET
FTR	FINNED TUBE RADIATION
FV	FACE VELOCITY
FX	FUME HOOD EXHAUST
°F	DEGREES FAHRENHEIT
G	GAUGE
GAL	GALLON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GX	GENERAL EXHAUST
H	HUMIDIFIER
HALX	HALON EXHAUST
HC	HEATING COIL
HD	HEAD
HR	HOUR
HRC	HEAT RECOVERY COIL
HT	HEIGHT
HTWP	HIGH TEMPERATURE WATER PUMP
HV	HEATING AND VENTILATING
HWP	HOT WATER PUMP
HX	HEAT EXCHANGER
HZ	FREQUENCE
IN	INCH OR INCHES
IPS	IRON PIPE SIZE
KW	KILOWATT
KX	KITCHEN RANGE HOOD EXHAUST
L	LENGTH
LAT	LEAVING AIRE TEMPERATURE
LBS	POUNDS
LCP	LOCAL CONTROL PANEL
LD	LINEAR DIFFUSER
LDB	LEAVING DRY BULB TEMPERATURE
LF, LIN.FT.	LINEAR FEET
LR	LINEAR RETURN
LRA	LOCKED ROTOR AMPS
LV	LOW VELOCITY
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MB	MIXING BOX
MBH	THOUSAND BTU PER HOUR
MCC	MOTOR CONTROL CENTER
MER	MECHANICAL EQUIPMENT ROOM
MHP	MOTOR HORSEPOWER
MIN	MINIMUM
MM	MILLIMETER
MOT	MOTOR
MOV	MOTOR OPERATED VALVE
MX	MECHANICAL ROOM EXHAUST
N.O.	NORMALLY OPEN
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO.	NUMBER
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OD	OUTSIDE DIAMETER
OED	OPEN END DUCT
OV	OUTLET VELOCITY
P	PUMP
PCC	PRE-COOLING COIL
PD	PRESSURE DROP
PF	PRE-FILTER
PHC	PREHEAT COIL
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	PSI GAUGE
(RE)	RELOCATED EXISTING
(RRO)	EXISTING TO REMOVED AND RETURN TO OWNER
R	RISE
RA	RETURN AIR
RAD	RADIATION
RCC	RECOOLING COIL
REFR	REFRIGERANT
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RHWP	REHEAT WATER PUMP
RLA	RUNNING LOAD AMPS
RM	ROOM
ROT	ROTATION
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAU	SOUND ATTENUATION UNIT
SCHWP	SECONDARY CHILLED WATER PUMP
SD	SMOKE DETECTOR
SF	SUPPLY FAN
SHWP	SECONDARY HOT WATER PUMP
SLD	STRIPLINE DIFFUSER
SMK.CTL.	SMOKE CONTROL OPERATION
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ.FT.	SQUARE FEET
SS	STAINLESS STEEL
SX	SMOKE EXHAUST
T	THROAT
TAD	TOP ANGULAR DISCHARGE
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TF	TERMINAL FILTER
TG	TOP GRILLE
THD	TOP HORIZONTAL DISCHARGE
TR	TOP REGISTER
TRD	TRANSFER DUCT
TRF	TRANSFER FAN
TRG	TRANSFER GRILLE
TS	TIP SPEED
TT	TOP THROAT
TV	TURNING VANES
TX	TOILET EXHAUST
TYP	TYPICAL
UBD	UPBLAST DISCHARGE
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VENTILATION AIR
VAC	VACUUM
VAV	VARIABLE AIR VOLUME UNIT
VF	VENTILATION FAN
VFD	VARIABLE FREQUENCY DRIVE
VIV	VARIABLE INLET VANES
VP	VACUUM PUMP
W	WIDTH
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WP	WORKING PRESSURE
WSP	WORKING STEAM PRESSURE

MECHANICAL GENERAL NOTES

1. GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL HVAC/MECHANICAL DRAWINGS.
2. DRAWINGS ARE DIAGRAMMATIC. DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD. RELOCATE EXISTING WORK THAT INTERFERES WITH WORK OF THIS CONTRACT.
3. COORDINATE THIS WORK WITH THAT OF OTHER TRADES.
4. DIMENSIONS SHOWN ON PLAN ARE HORIZONTAL. DIMENSIONS SHOWN IN ELEVATION ARE VERTICAL EXCEPT IN WAY OF STRUCTURAL STEEL, DIMENSIONS ARE MEASURED PERPENDICULAR TO FLANGE.
5. NEITHER ACCURACY NOR COMPLETION OF SERVICES AND UTILITY LOCATIONS SHOWN ON DRAWINGS IS GUARANTEED. DETERMINE EXACT LOCATIONS OF EXISTING SERVICES AND UTILITIES IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
6. MANUFACTURERS MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
7. PRODUCT INSTALLATION SHALL ADHERE TO MANUFACTURERS RECOMMENDATIONS.
8. PROVIDE ACCESS PANELS FOR EQUIPMENT THAT REQUIRES PERIODIC SERVICE.
9. PROVIDE HANGERS, INSERTS, ANCHORS, SUPPLEMENTAL STEEL & SUPPORTS AS REQUIRED TO SUPPORT DUCTWORK, PIPING AND EQUIPMENT FROM STRUCTURE.
10. SCHEDULE WORK OF THIS SECTION TO AVOID INTERFERING WITH EXISTING OPERATIONS IN THE FACILITY.
11. COORDINATE ROOF PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS. MECHANICAL CONTRACTOR TO NOTIFY OWNER PRIOR TO STARTING WORK TO VERIFY COMPLIANCE WITH BOND AND WARRANTY OF EXISTING ROOF.
12. RUN DUCTS AND PIPING CONCEALED, UNLESS OTHERWISE SPECIFIED AND CLEAR OF CEILING INSERTS.
13. INSTALL THERMOSTATS 4'-6" ABOVE FINISHED FLOOR OR AS DIRECTED OTHERWISE BY ARCHITECT.
14. STRUCTURAL WELDING SHALL BE CONTINUOUS 1/4" FILLET UNLESS REQUIRED OTHERWISE.

AIR SYSTEMS

15. AIR SYSTEMS REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF AIR DEVICES.
16. INTERNAL AIRFLOW DIMENSIONS ARE SHOWN FOR DUCTS. INCREASE DUCT SIZE AS NECESSARY TO MAINTAIN FREE FLOW AREA INDICATED.
17. USE FLAT TRANSVERSE SEAM FOR DUCTWORK WHERE SPACE AVAILABLE DICTATES.
18. DIFFUSER SIZES SHOWN ARE NECK SIZES. REGISTERS AND GRILLE SIZES ARE NOMINAL.
19. PROVIDE VOLUME DAMPERS OR OTHER APPROVED BALANCING DEVICES AT DUCT BRANCHES AND RUN OUTS, AND AT REGISTER GRILLE AND DIFFUSER NECKS IN SUPPLY, RETURN AND EXHAUST DUCTWORK WHETHER SHOWN OR NOT.
20. DUCTWORK DOWNSTREAM OF ALL VAV AND FAN POWERED VAV BOXES SHALL BE ACOUSTICALLY LINED WITH 1" ACOUSTICAL LINING FOR A MINIMUM OF 15 FEET.
21. PROVIDE 36" CLEARANCE IN FRONT OF ALL ELECTRIC CONTROL PANELS PER N.E.C. AND MFG. REQUIREMENTS.
22. PROVIDE DUCT TRANSITIONS FROM VAV BOX INLET/OUTLET DUCT WORK AT SIZES INDICATED TO VAV BOX INLET/OUTLET UNIT CONNECTIONS.
23. VAV DUCT INLET SIZE SHALL BE AS SCHEDULED OR AS INDICATED ON THE FLOOR PLANS. PROVIDE TRANSITION FROM DUCT SIZE INDICATED ON THE FLOOR PLANS TO SCHEDULED SIZE MINIMUM 2'-0" FROM VAV BOX INLETS.

PIPING SYSTEMS

24. PITCH PIPING 1" IN 20' IN DIRECTION OF FLOW.
25. PROVIDE TRAPS IN CONDENSATE LINES THAT EXTEND OVER 2".

MECHANICAL DRAWING LIST

DRAWING No.	DRAWING TITLE
M-100.00	MECHANICAL COVER SHEET
M-199.00	MECHANICAL SUB-CELLAR DUCTWORK PLAN
M-200.00	MECHANICAL CELLAR DUCTWORK PLAN
M-201.00	MECHANICAL 1ST FLOOR DUCTWORK PLAN
M-202.00	MECHANICAL 2ND FLOOR DUCTWORK PLAN
M-203.00	MECHANICAL 3RD FLOOR DUCTWORK PLAN
M-204.00	MECHANICAL 4TH FLOOR DUCTWORK PLAN
M-205.00	MECHANICAL 5TH FLOOR DUCTWORK PLAN
M-206.00	MECHANICAL 6TH FLOOR DUCTWORK PLAN
M-207.00	MECHANICAL 7TH FLOOR DUCTWORK PLAN
M-208.00	MECHANICAL 8TH FLOOR DUCTWORK PLAN
M-209.00	MECHANICAL 9TH FLOOR DUCTWORK PLAN
M-210.00	MECHANICAL ROOF LEVEL DUCTWORK PLAN
M-211.00	MECHANICAL BULKHEAD ROOF DUCTWORK PLAN
M-299.00	MECHANICAL SUB-CELLAR PIPING PLAN
M-300.00	MECHANICAL CELLAR PIPING PLAN
M-301.00	MECHANICAL 1ST FLOOR PIPING PLAN
M-302.00	MECHANICAL 2ND FLOOR PIPING PLAN
M-303.00	MECHANICAL 3RD FLOOR PIPING PLAN
M-304.00	MECHANICAL 4TH FLOOR PIPING PLAN
M-305.00	MECHANICAL 5TH FLOOR PIPING PLAN
M-306.00	MECHANICAL 6TH FLOOR PIPING PLAN
M-307.00	MECHANICAL 7TH FLOOR PIPING PLAN
M-308.00	MECHANICAL 8TH FLOOR PIPING PLAN
M-309.00	MECHANICAL 9TH FLOOR PIPING PLAN
M-310.00	MECHANICAL ROOF LEVEL PIPING PLAN
M-311.00	MECHANICAL BULKHEAD PIPING PLAN
M-500.00	MECHANICAL AIR SIDE RISER DIAGRAM
M-501.00	MECHANICAL WATER SIDE RISER DIAGRAM
M-600.00	MECHANICAL SCHEDULES (1 OF 2)
M-601.00	MECHANICAL SCHEDULES (2 OF 2)
M-700.00	MECHANICAL DETAILS (1 OF 2)
M-701.00	MECHANICAL DETAILS (2 OF 2)

NYC BUILDING DEPARTMENT NOTES

2008 - NYC BUILDING CODE

ALL WORK SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE BUILDING CODE, CITY OF NEW YORK, EFFECTIVE JULY 1, 2008 AND ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE. INSPECTIONS AND SIGN-OFF OF COMPLETED WORK SHALL BE MADE AS PER ARTICLE 28-116 OF THE GENERAL ADMINISTRATIVE PROVISIONS.

1. THE FOLLOWING SPECIAL INSPECTIONS ARE REQUIRED BY THE NYC BUILDING CODE FOR HVAC SYSTEMS:
   - A. SPECIAL CASES- BC 1704.13
   - B. SMOKE CONTROL SYSTEMS- BC 1704.14
   - C. MECHANICAL SYSTEMS-BC 1704.15
   - D. FUEL OIL STORAGE AND PIPING SYSTEMS-BC 1704.16
   - E. HIGH PRESSURE STEAM PIPING- BC 1704.17
   - F. HEATING SYSTEMS- BC 1704.23
   - G. CHIMNEYS- BC 1704.24
   - H. MECHANICAL AND ELECTRICAL COMPONENTS-1707.7
   - I. SEISMIC ISOLATION SYSTEMS-BC 1707.8
   - J. ENERGY CODE COMPLIANCE- BC 109.3.5
2. THE FOLLOWING PERIODIC SPECIAL INSPECTIONS ARE REQUIRED BY THE NYC BUILDING CODE FOR HVAC SYSTEMS:
   - A. FIRE DAMPERS - BC 109.3.4
   - B. ENERGY CODE COMPLIANCE- BC 109.3.5
   - C. WELDING OPERATIONS OF HIGH PRESSURE STEAM PIPING - BC 1704.17.2
   - D. THROUGH-PENETRATION FIRESTOP SYSTEMS- BC 1704.25
   - E. HVAC PIPING CONTAINING FLAMMABLE, COMBUSTIBLE OR HIGHLY TOXIC CONTENTS & THEIR ASSOCIATED MECHANICAL UNITS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C or D - BC 1707.7
   - F. HVAC DUCTWORK CONTAINING HAZARDOUS MATERIALS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C or D - BC 1707.7
   - G. SEISMIC ISOLATION AND ENERGY DISSIPATION DEVICES BC 1707.8
3.. TESTS OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION MC 107 AND THE FOLLOWING SECTIONS OF THE NEW YORK CITY MECHANICAL CODE:
   - A. SMOKE CONTROL SYSTEMS-MC 513.3
   - B. VENTILATION SYSTEM BALANCING 403.3.4
   - C. VENTILATION SYSTEM SERVING COMMERCIAL COOKING APPLIANCES - MC 507.16
   - D. CHIMNEYS- MC 810
   - E. BOILERS AND PRESSURE VESSELS-MC 1011
   - F. REFRIGERATION SYSTEMS- MC 1108
   - G. HYDRONIC PIPING SYSTEMS-MC 1208
   - H. HIGH PRESSURE STEAM PIPING-MC 1210
   - I. FUEL STORAGE TANKS AND PIPING-MC 1308
4. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A PROFESSIONAL ENGINEER TO PROVIDE THE REQUIRED SPECIAL INSPECTIONS AND TESTS
   - A. UPON COMPLETION OF THE VENTILATION SYSTEM:
     1) A TEST SHALL BE CONDUCTED IN THE PRESENCE OF AND UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER QUALIFIED TO CONDUCT SUCH TESTS. THE TESTS SHALL SHOW COMPLIANCE WITH THE CODE REQUIREMENTS FOR VENTILATION AND THE PROPER FUNCTIONING OF ALL SMOKE DETECTION, FIRE PROTECTION AND OPERATING DEVICES BEFORE THE SYSTEM IS APPROVED.
     2) THE LICENSED PROFESSIONAL ENGINEER WHO CONDUCTS THE TESTS SHALL FILE A CERTIFICATE AS TO WHETHER THE SYSTEM COMPLIES WITH THE APPLICABLE LAWS. THEY SHALL ALSO FILE WITH THIS CERTIFICATION A REPORT OF THE TEST. THE TEST AND REPORT SHALL BE MADE IN A MANNER SATISFACTORY TO THE OWNER.
5. THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC. SHALL COMPLY WITH THE REFERENCED CODE OR STANDARD:
   - A. STANDARDS OF HEATING - MC 309.1
   - B. NOISE CONTROL -MC 926
   - C. DUCT CONSTRUCTION, SUPPORT- MC 603
   - D. AIR INTAKES, EXHAUSTS AND RELIEFS - MC 401.5
   - E. AIR FILTERS-MC 605
   - F. FIRE DAMPERS AND SMOKE DAMPERS AND SMOKE DETECTORS -MC 607
   - G. MANUAL AND AUTOMATIC, FIRE AND SMOKE CONTROLS FOR AIR DISTRIBUTION SYSTEMS -MC 513
   - H. BOILERS -MC 1004
   - I. PIPING AND INSULATION -MC 1201
   - J. GAS FIRED EQUIPMENT - FUEL GAS CODE
   - K. FUEL OIL STORAGE EQUIPMENT-MC 1301
6. MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON: 68 DEG F
7. VENTILATION FOR ALL AREAS SHALL COMPLY WITH MC 401.
8. A STATEMENT SHALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE VENTILATING SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING THE NORMAL OCCUPANCY OF THE STRUCTURE AS REQUIRED BY CODE MC 403.3
9. ALL FIRE DAMPERS SHALL BE ACCEPTED FOR USE BY THE NEW YORK CITY DEPARTMENT OF BUILDINGS SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH UL 555, STANDARD FOR FIRE DAMPERS AND CEILING DAMPERS.
10. COMBINATION FIRE/SMOKE DAMPERS AND SMOKE DAMPERS SHALL BE ACCEPTED FOR USE BY THE NEW YORK CITY DEPARTMENT OF BUILDINGS SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH UL 555S.
11. SMOKE DETECTORS, COMBINATION FIRE/SMOKE DAMPERS AND SMOKE DAMPERS SHALL BE INSTALLED AS REQUIRED TO CLOSE DAMPERS AND AUTOMATICALLY STOP THE FAN-MC 606
12. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE RATED WALL AND SMOKE WALL CONSTRUCTION AND LOCATION.
13. 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.
14. TO THE BEST OF THE APPLICANT'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE.
15. TESTS OF SOUND POWER LEVEL OF MECHANICAL EQUIPMENT SHALL BE CONDUCTED AND RESULTS SUBMITTED WHERE WINDOWS OF A DWELLING UNIT ARE WITHIN 100 FEET OF EQUIPMENT. THE SOUND PRESSURE LEVEL SHALL NOT EXCEED THE LEVELS GIVEN IN MC 926.

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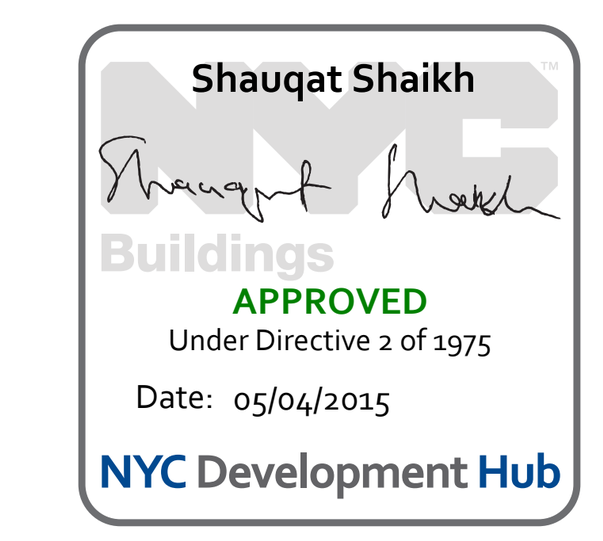

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03/03/2014	5	DOB FILING SET
01/31/2014	4	GUARANTEED MAXIMUM PRICE
01/10/2014	3	REVISED 80% PRICING SET
07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT

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Sheet Title:

MECHANICAL COVER SHEET

Project Number: Y120612-000

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Scale: As indicated

Signature & Seal:



Sheet Number:
M-100.00

NYC DOB Number:

Sheet: 1 *of* 33

DEPT OF BLDGS 121329919 Job Number
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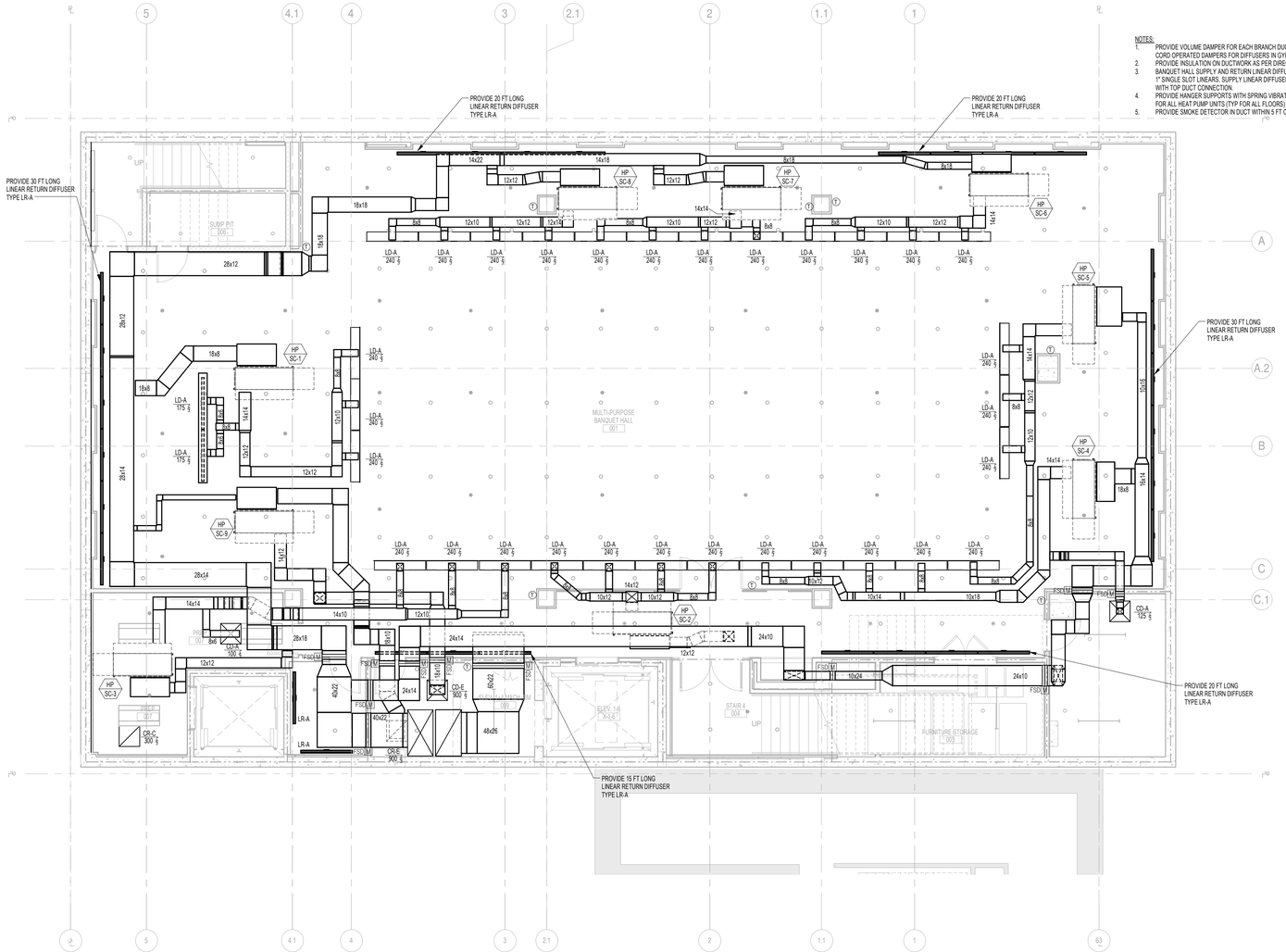

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Sheet Title:
MECHANICAL SUB-CELLAR DUCTWORK PLAN

Project Number: Y120612-000
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Sheet: 2 of 33

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Opp. Ex. 1001 Page 163 of 205

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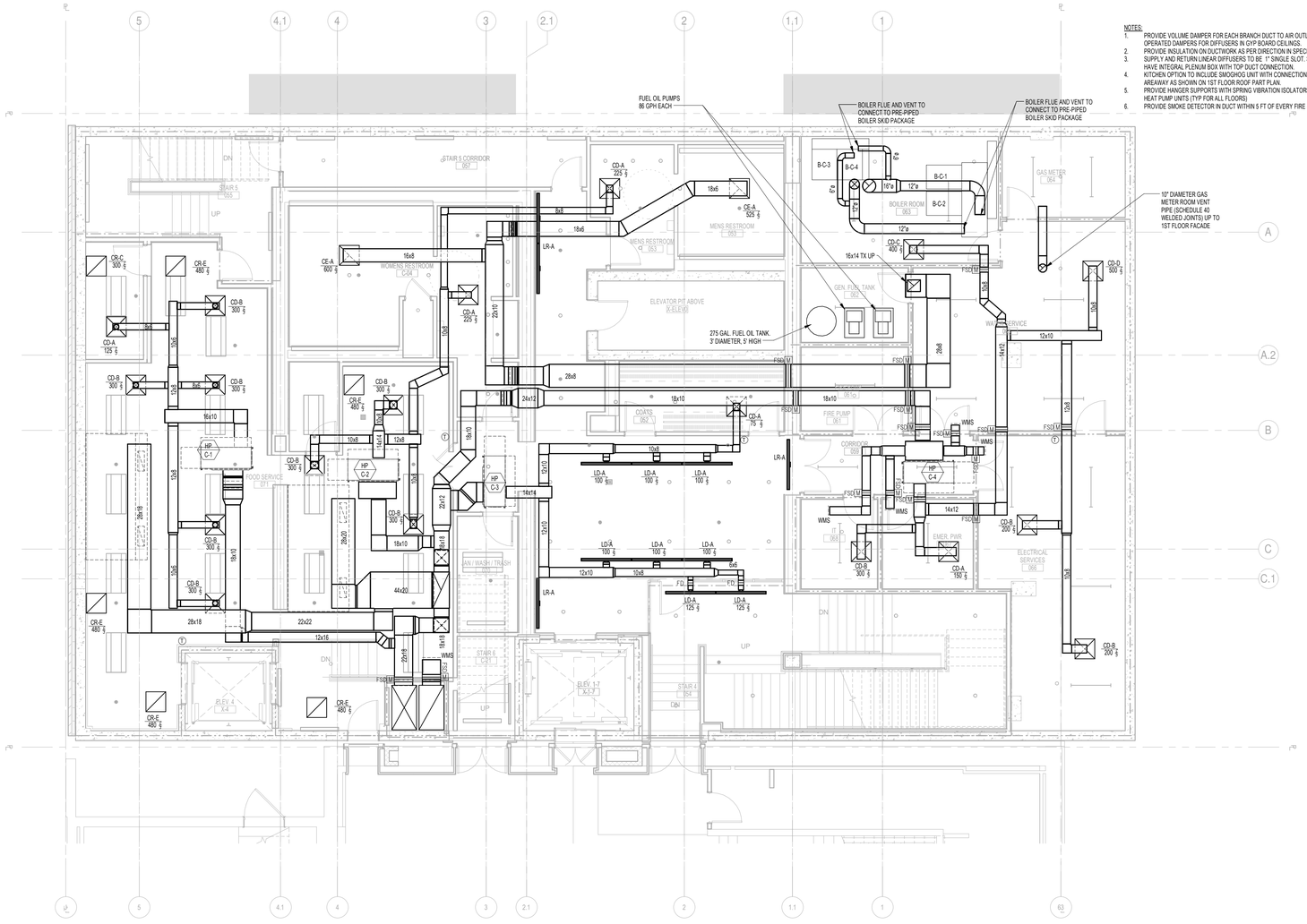

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Sheet Title:
MECHANICAL CELLAR DUCTWORK PLAN

Project Number: Y120612-000
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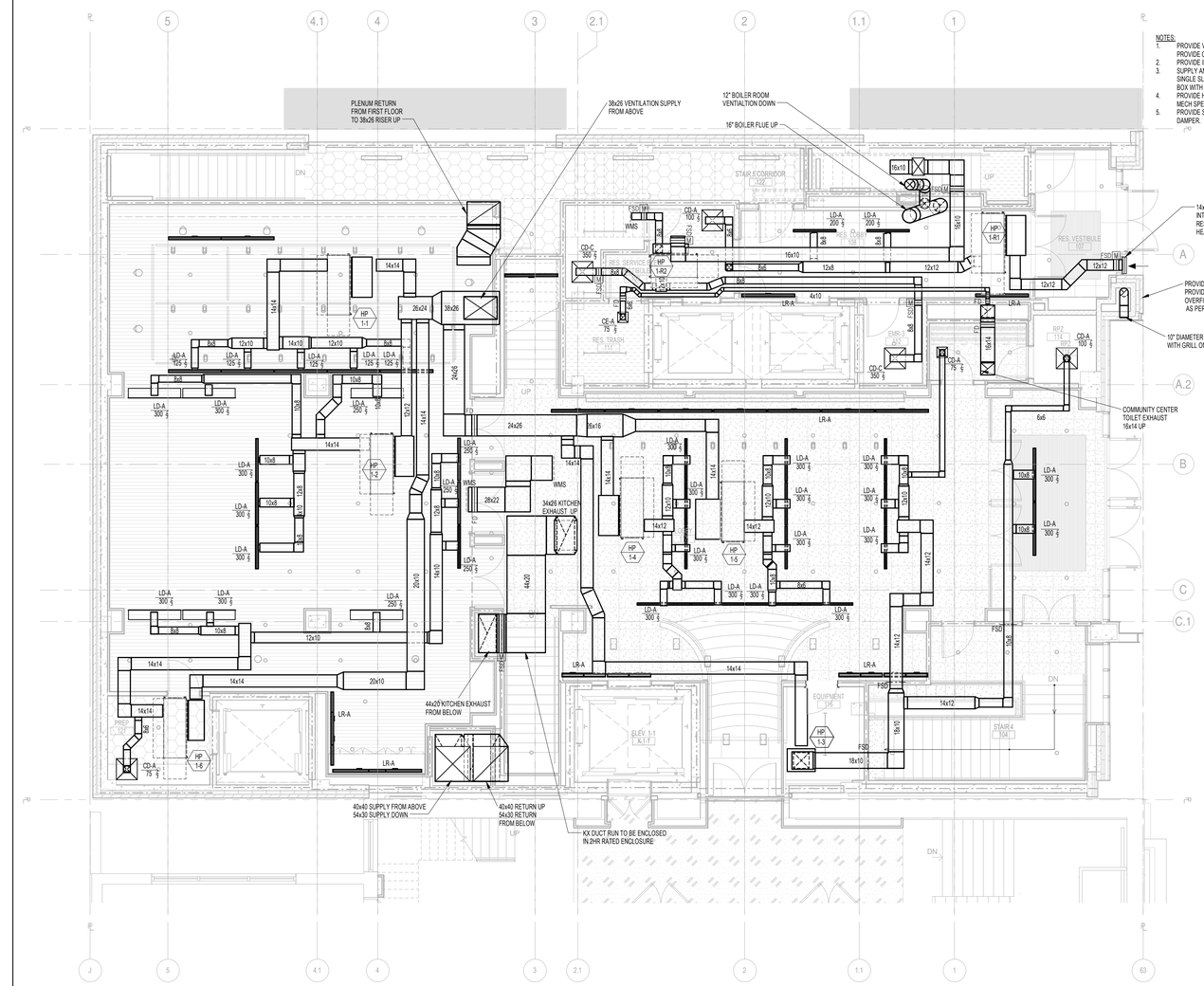

1 FIRST FLOOR PLAN
SCALE: 3/16" = 1'-0"

NOTES:
1. PROVIDE VOLUME DAMPER FOR EACH BRANCH DUCT TO AIR OUTLET OR INLET. PROVIDE CORD OPERATED DAMPERS FOR DIFFUSERS IN GYP BOARD CEILINGS.
2. PROVIDE INSULATION ON DUCTWORK AS PER DIRECTION IN SPECIFICATIONS.
3. SUPPLY AND RETURN LINEAR DIFFUSERS TO BE SIMILAR TO ANEMOSTAT 1" SINGLE SLOT LINEARS. SUPPLY LINEAR DIFFUSERS TO HAVE INTEGRAL PLENUM BOX WITH TOP DUCT CONNECTION.
4. PROVIDE HANGER SUPPORTS WITH SPRING VIBRATION ISOLATORS AS PER MECH SPECS FOR ALL HEAT PUMP UNITS (TYP FOR ALL FLOORS)
5. PROVIDE SMOKE DETECTOR IN DUCT WITHIN 5 FT OF EVERY FIRE SMOKE DAMPER.

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Sheet Title:
MECHANICAL 1ST FLOOR DUCTWORK PLAN

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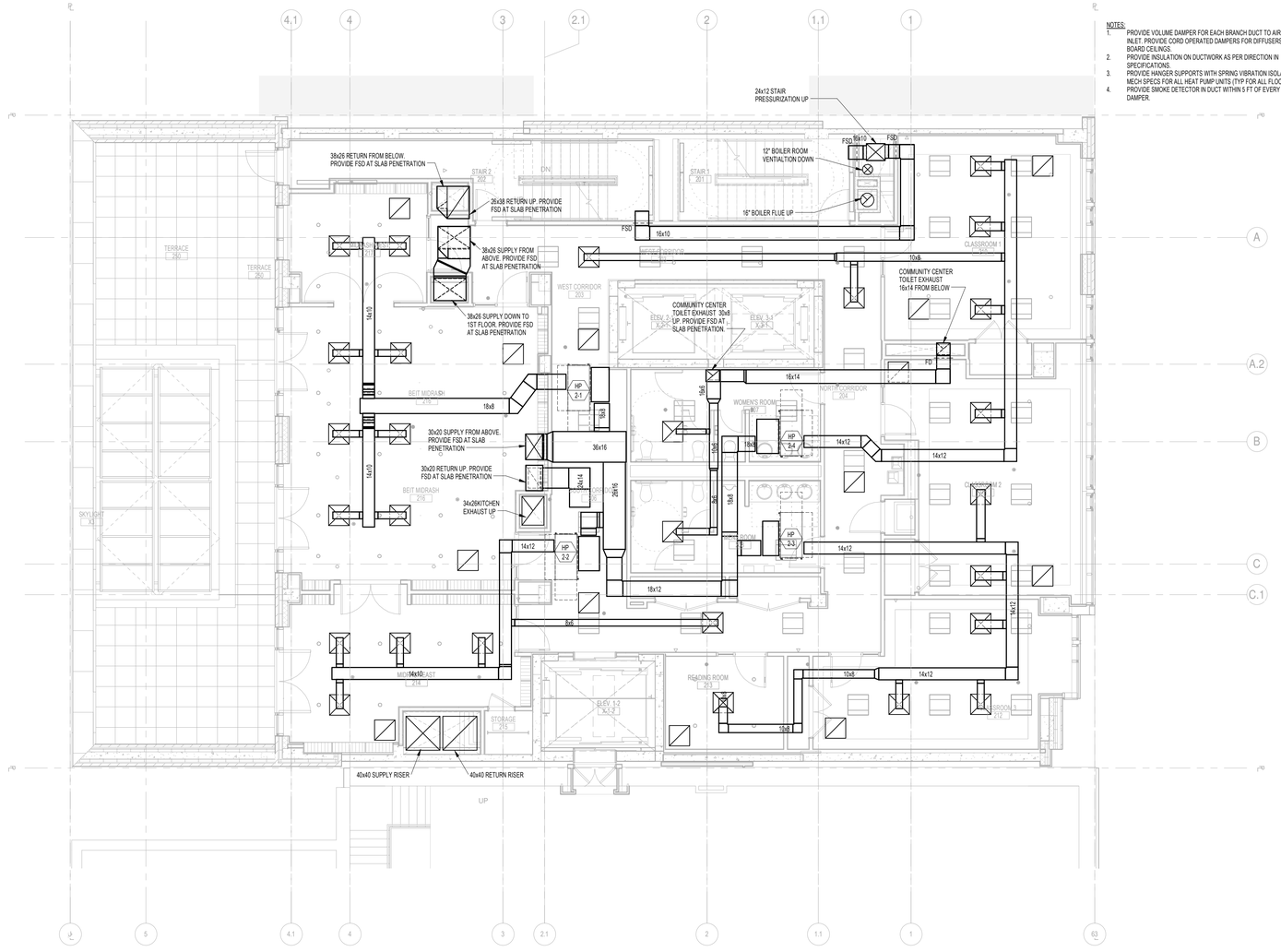

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Sheet Title:
MECHANICAL 2ND FLOOR DUCTWORK PLAN

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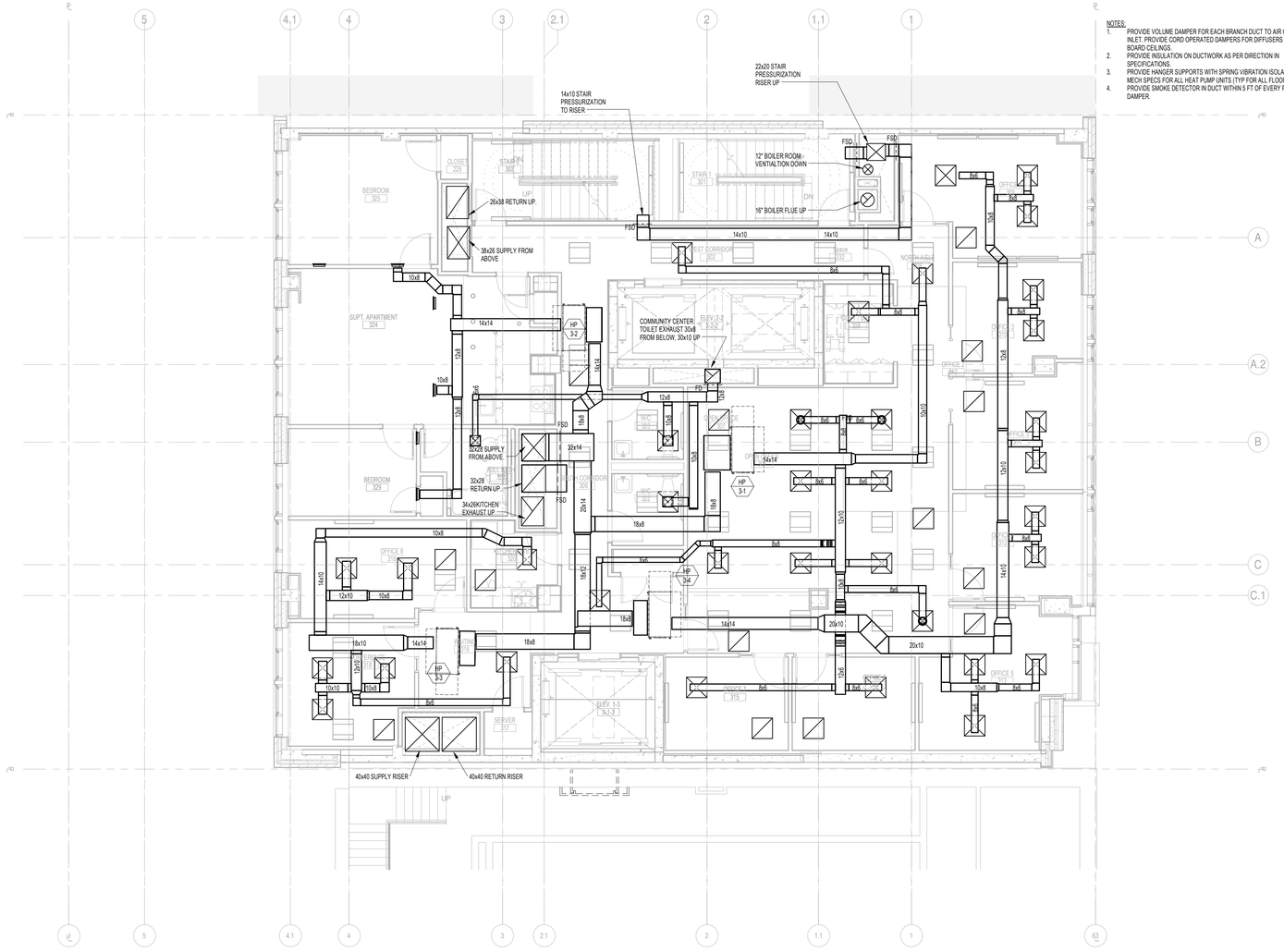

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2. PROVIDE INSULATION ON DUCTWORK AS PER DIRECTION IN SPECIFICATIONS.
3. PROVIDE HANGER SUPPORTS WITH SPRING VIBRATION ISOLATORS AS PER MECH SPECS FOR ALL HEAT PUMP UNITS (TYP FOR ALL FLOORS)
4. PROVIDE SMOKE DETECTOR IN DUCT WITHIN 5 FT OF EVERY FIRE SMOKE DAMPER.

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Date:	No.:	Description:
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03/03/2014	5	DOB FILING SET
01/31/2014	4	GUARANTEED MAXIMUM PRICE
01/10/2014	3	REVISED 80% PRICING SET
07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
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Sheet Title:
MECHANICAL 3RD FLOOR DUCTWORK PLAN

Project Number: Y120612-000
Drawn By: CM
Checked By: CM
Scale: 3/16" = 1'-0"

Signature & Seal:

Sheet Number:
M-203.00

NYC DOB Number:

Sheet: 6 of 33

DEPT OF BLDGS 121329919 Job Number
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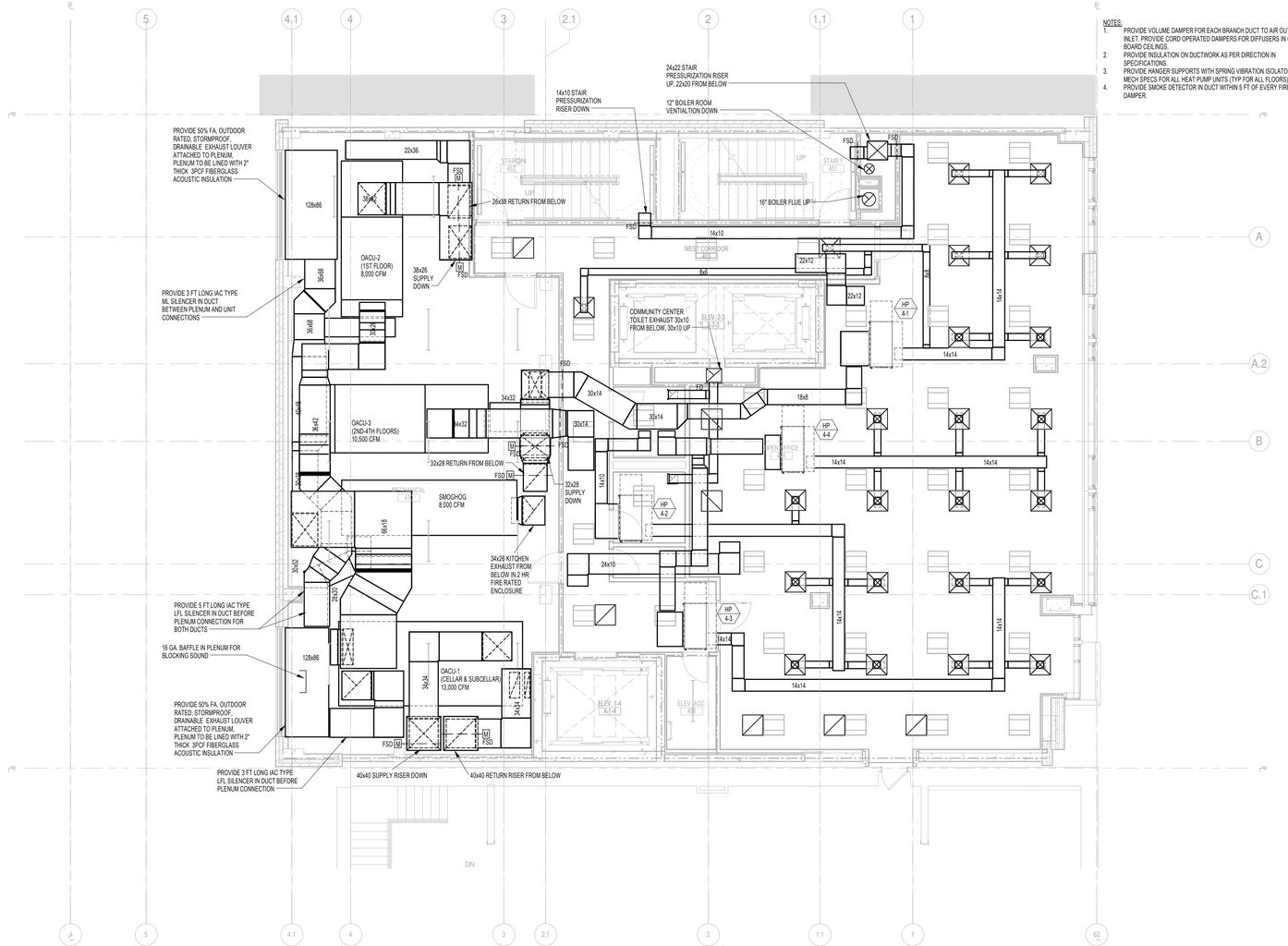

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04/12/2013	1	100% DESIGN DEVELOPMENT

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Sheet Title:
MECHANICAL 4TH FLOOR DUCTWORK PLAN

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M-204.00

NYC DOB Number:
Sheet: 7 of 33

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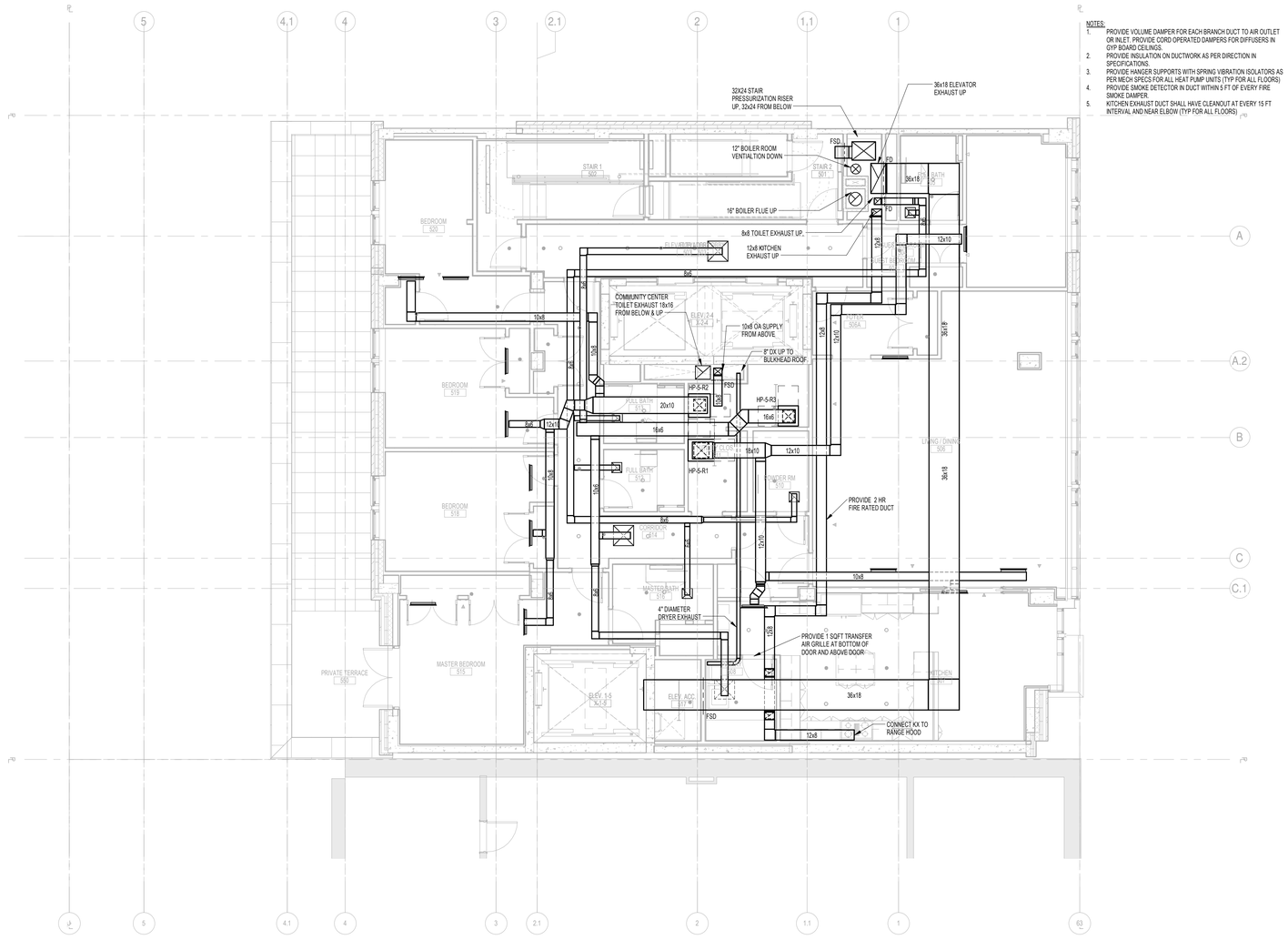

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5. KITCHEN EXHAUST DUCT SHALL HAVE CLEANOUT AT EVERY 15 FT INTERVAL AND NEAR ELBOW (TYP FOR ALL FLOORS)

DEPT OF BLDGS 121328919 Job Number

ES103062210 Scan Code

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07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
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Sheet Title:
MECHANICAL 5TH FLOOR DUCTWORK PLAN

Project Number: Y120612-000
Drawn By: CM
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Sheet: 8 of 33

DEPT OF BLDGS 121328919 Job Number

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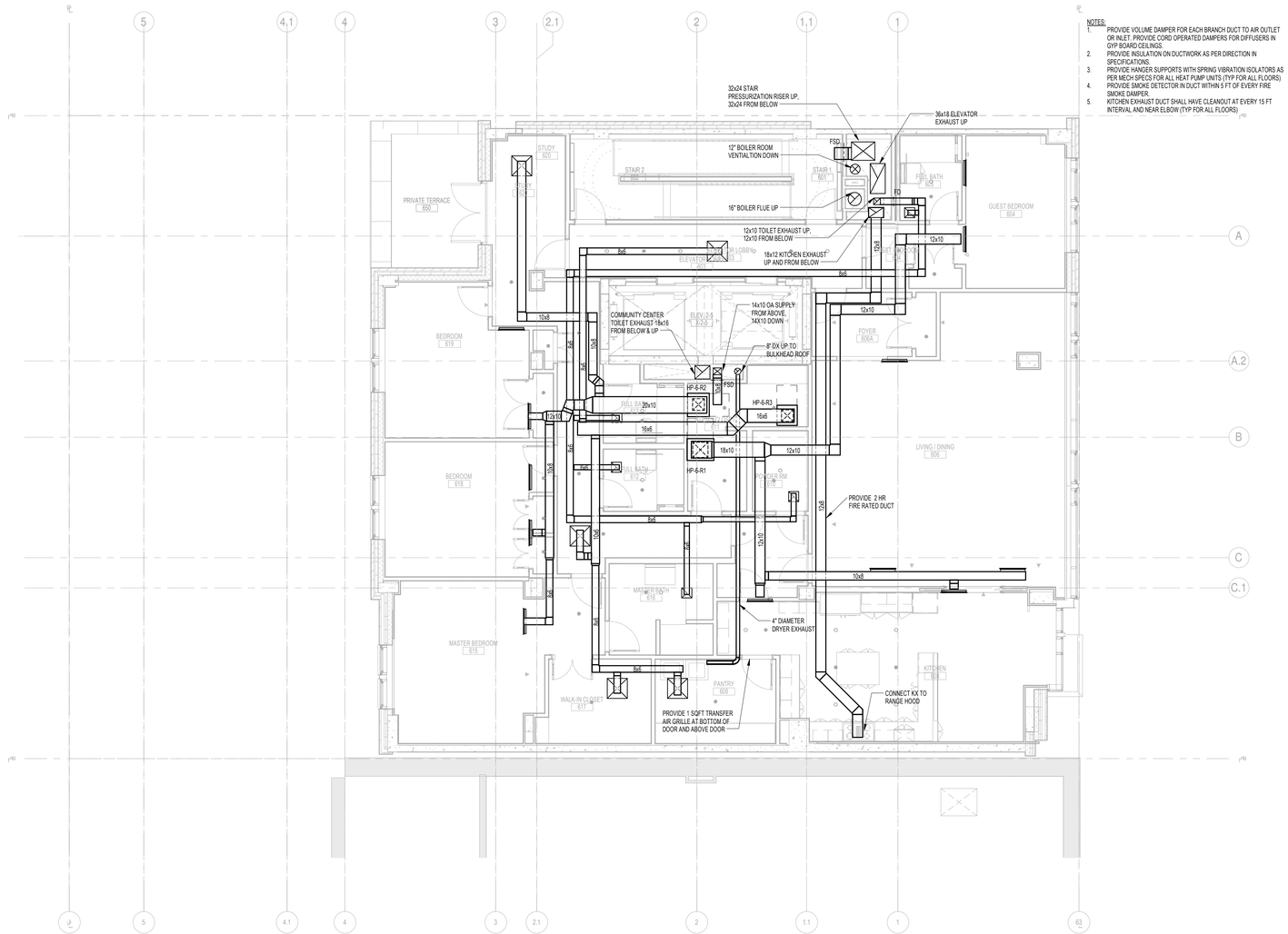

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04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
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Sheet Title:
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Sheet: 9 of 33

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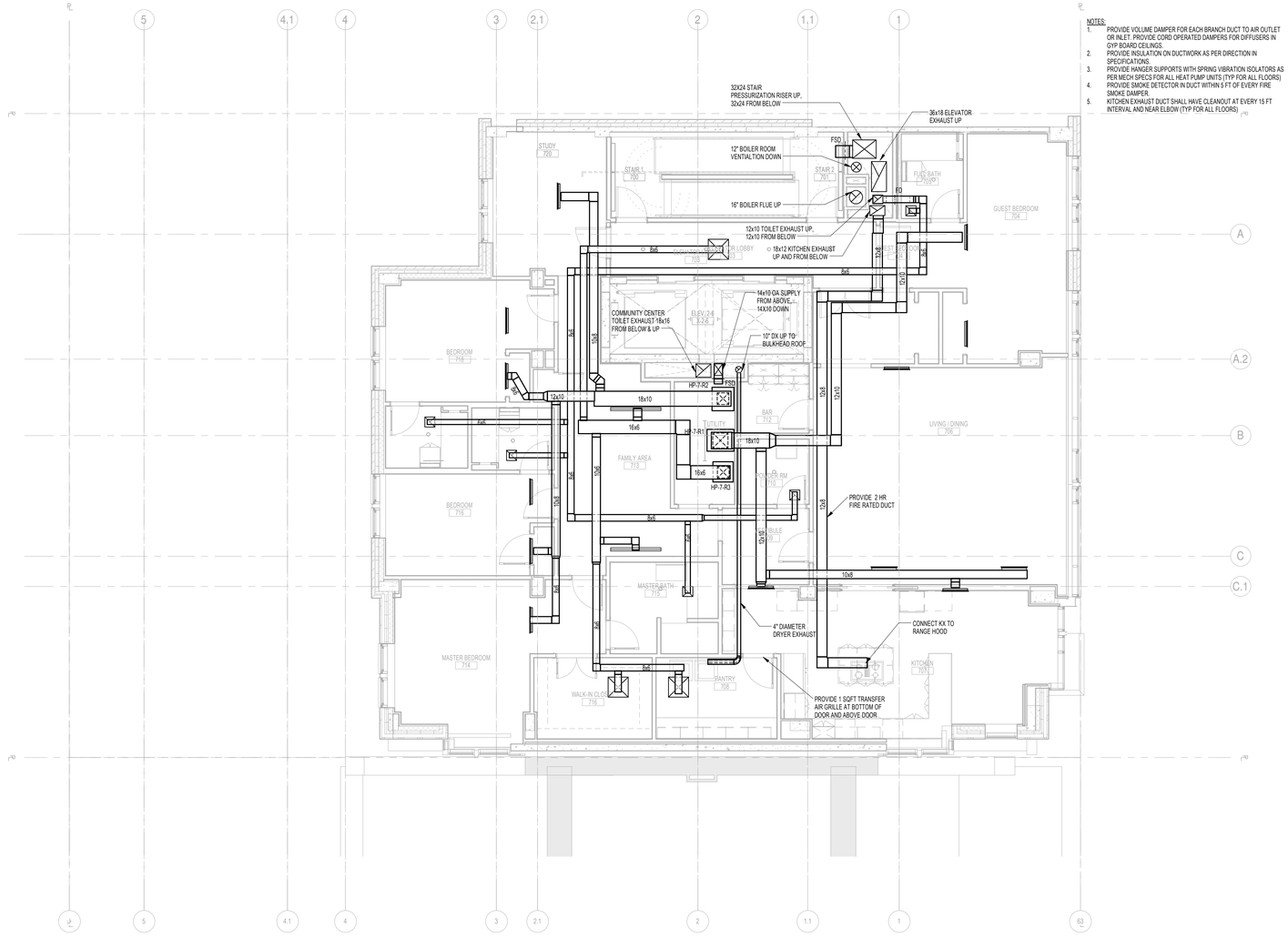

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DEPT OF BLDGS 121328919 Job Number

ES115350301 Scan Code

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Sheet Title:
MECHANICAL 7TH FLOOR DUCTWORK PLAN

Project Number: Y120612-000
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Sheet: 10 of 33

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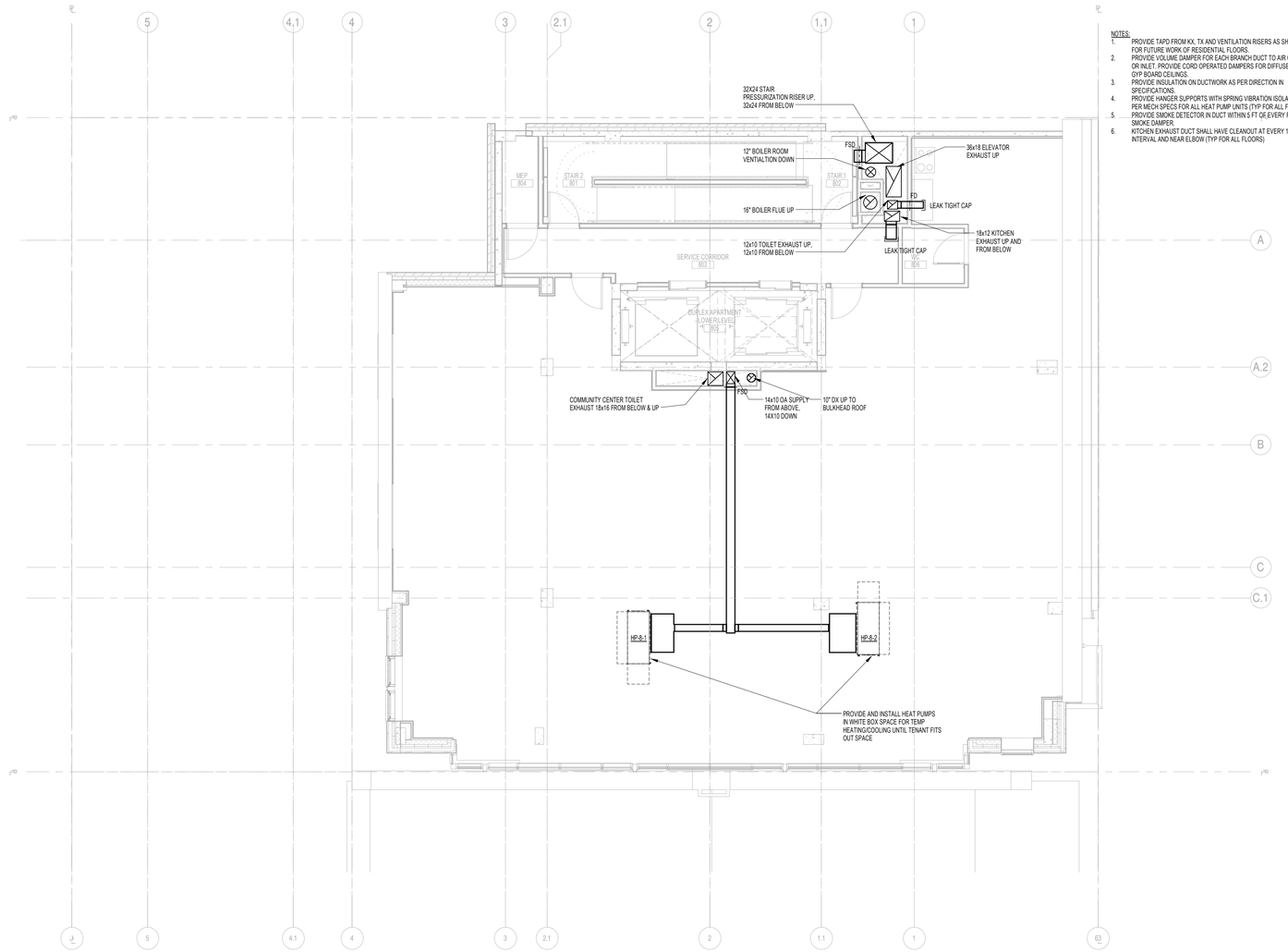

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Sheet Title:
MECHANICAL 8TH FLOOR DUCTWORK PLAN

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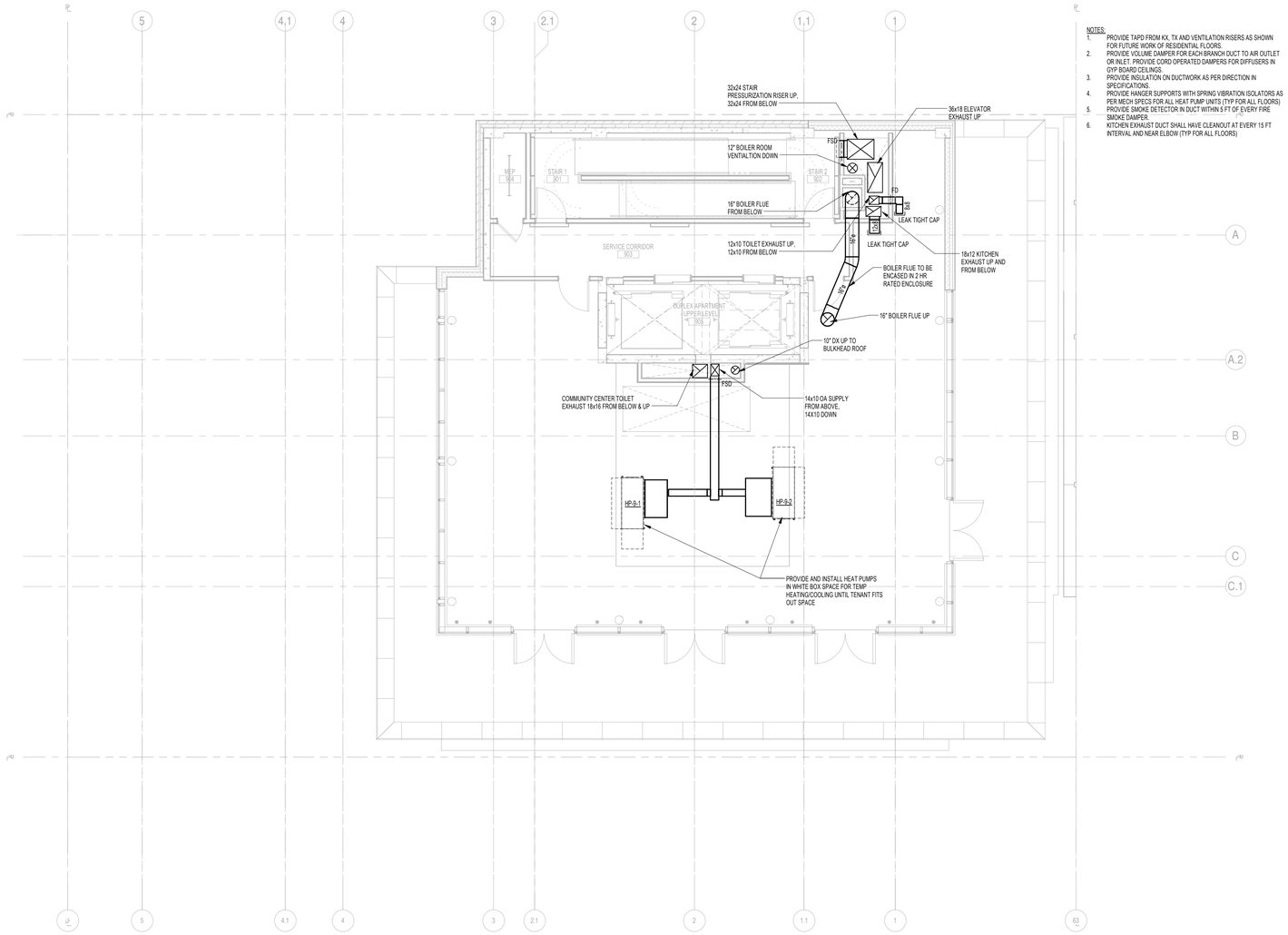

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Sheet Title:
MECHANICAL 9TH FLOOR DUCTWORK PLAN

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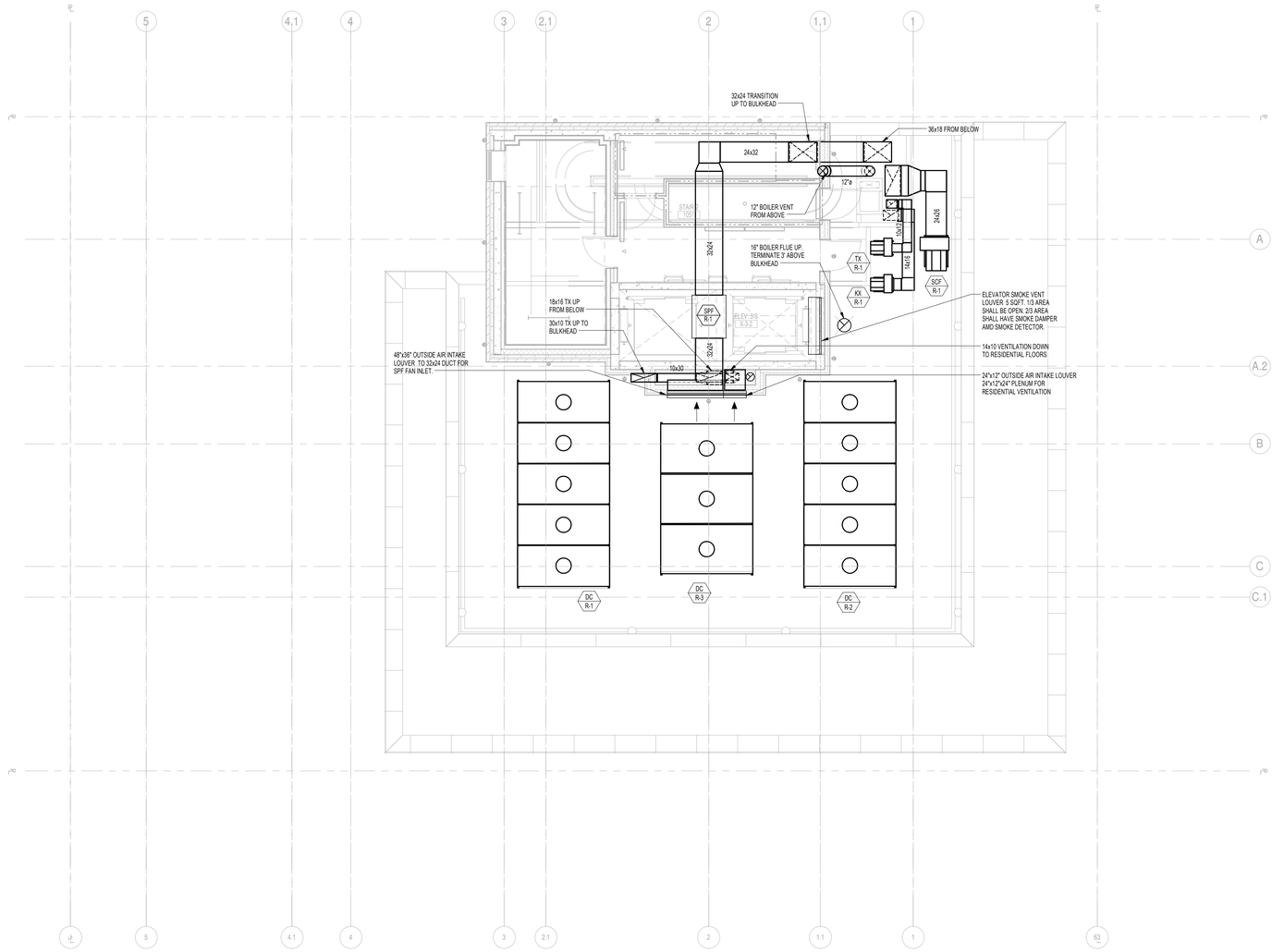

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Project:
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Sheet Title:
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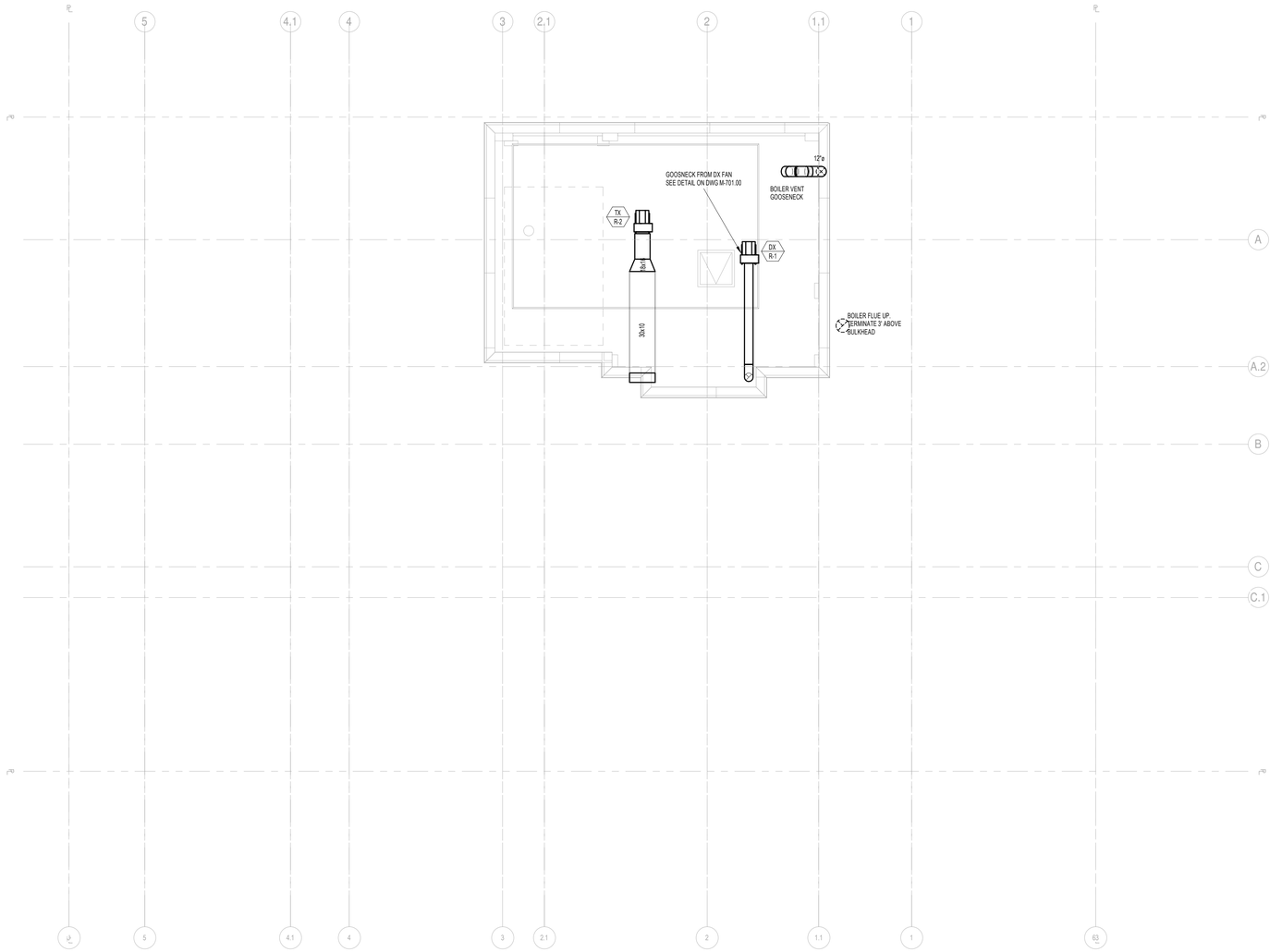

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Project:
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Sheet Title:
MECHANICAL BULKHEAD ROOF DUCTWORK PLAN

Project Number: Y120612-000
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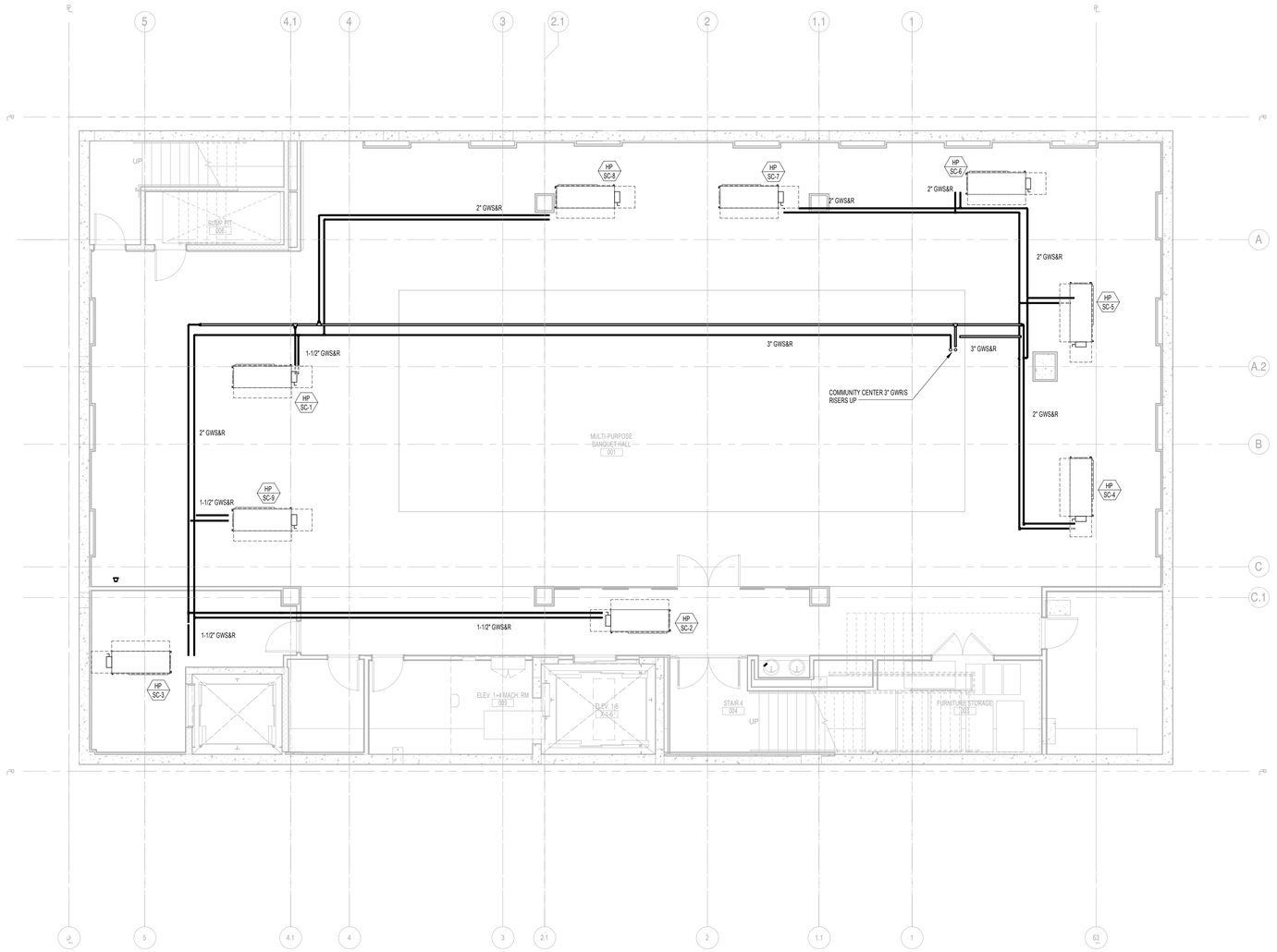

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Sheet Title:
MECHANICAL SUB-CELLAR PIPING PLAN

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Scale: 3/16" = 1'-0"

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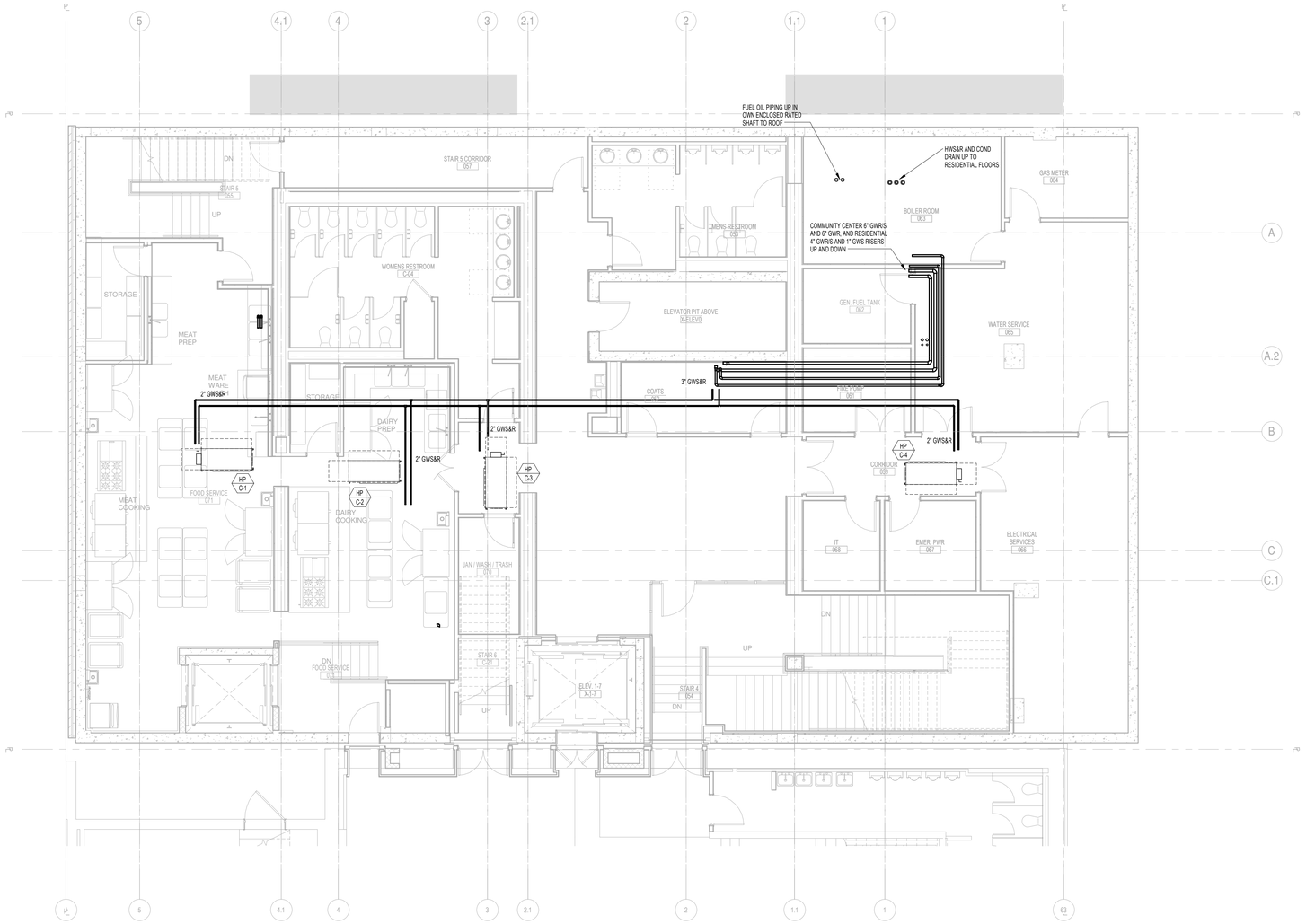

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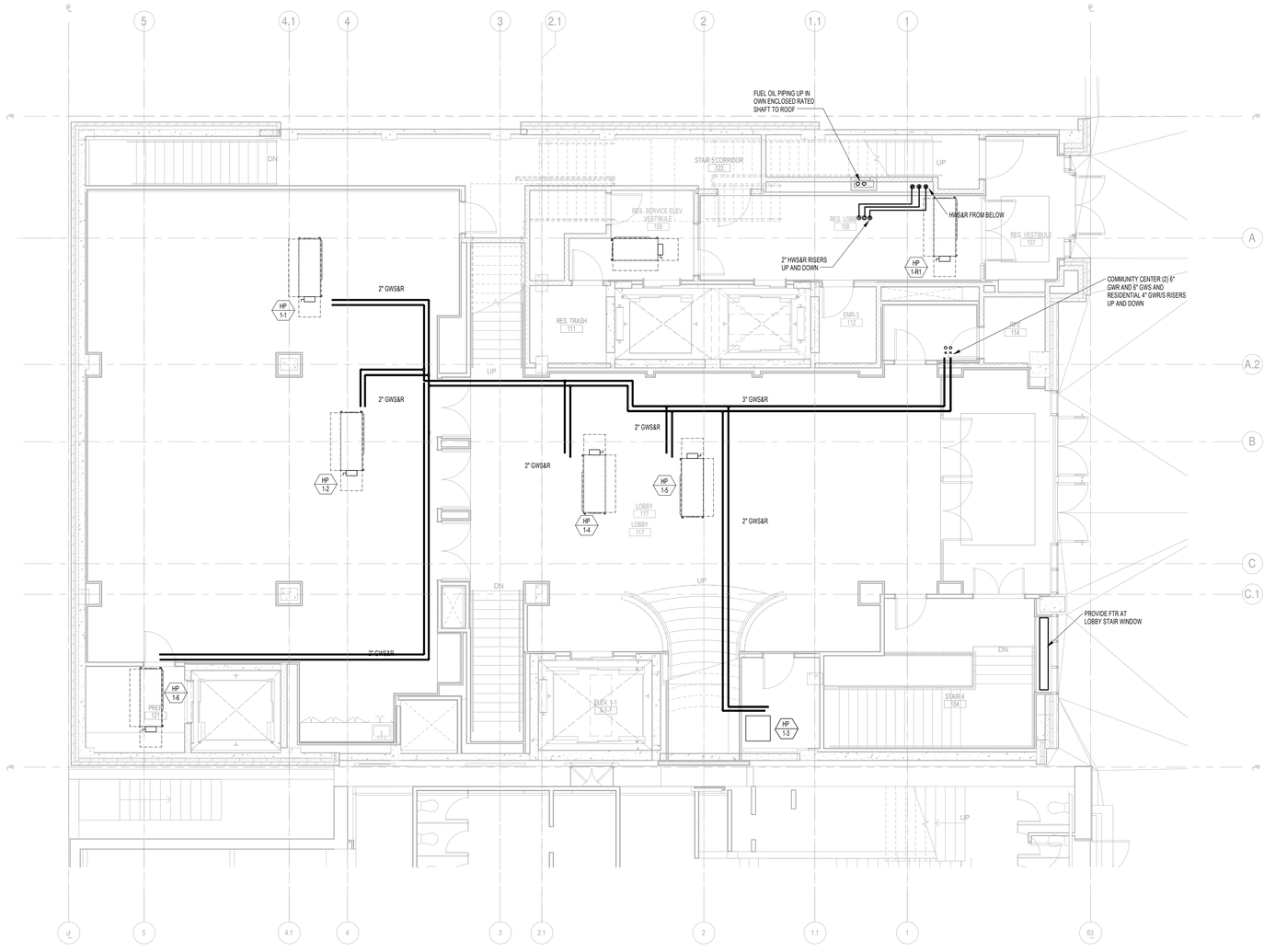

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Date: 05/04/2015
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Date:	No.:	Description:
08/06/2014	6	DOB FILING SET
03/03/2014	5	DOB FILING SET
01/31/2014	4	GUARANTEED MAXIMUM PRICE
01/10/2014	3	REVISED 80% PRICING SET
07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:
MECHANICAL 1ST FLOOR PIPING PLAN

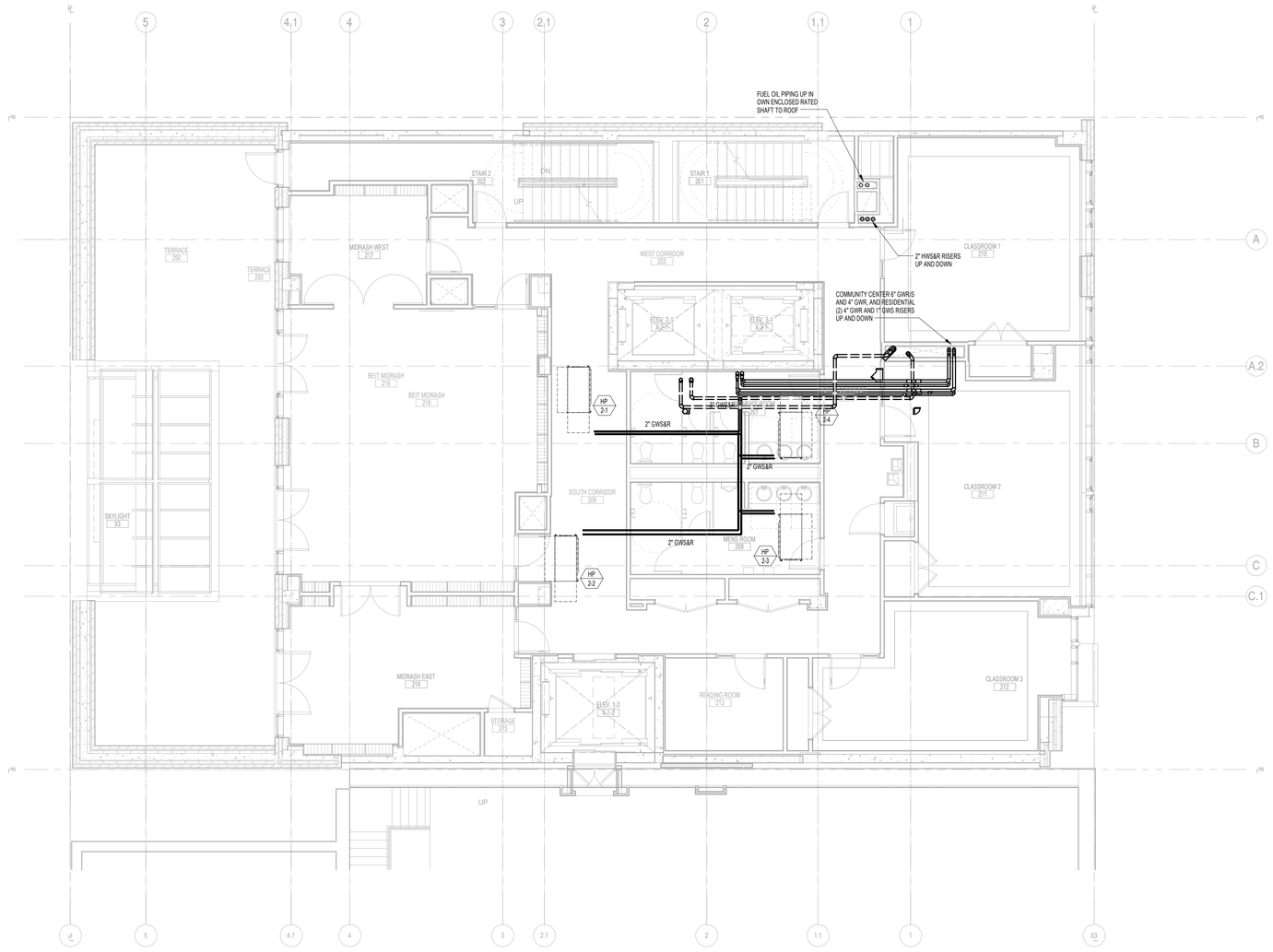
Project Number: Y120612-000
Drawn By: CM
Checked By: CM
Scale: 3/16" = 1'-0"

Signature & Seal:

Sheet Number:
M-301.00

NYC DOB Number:

Sheet: 16 of 33



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Date:	No.:	Description:
08/06/2014	6	DOB FILING SET
03/03/2014	5	DOB FILING SET
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01/10/2014	3	REVISED 80% PRICING SET
07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
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New York, NY 10023

Sheet Title:
MECHANICAL 2ND FLOOR PIPING PLAN

Project Number: Y120612-000
Drawn By: CM
Checked By: CM
Scale: 3/16" = 1'-0"
Signature & Seal:

Sheet Number:
M-302.00

NYC DOB Number:
Sheet: 17 of 33

DEPT OF BLDGS 121328919 Job Number

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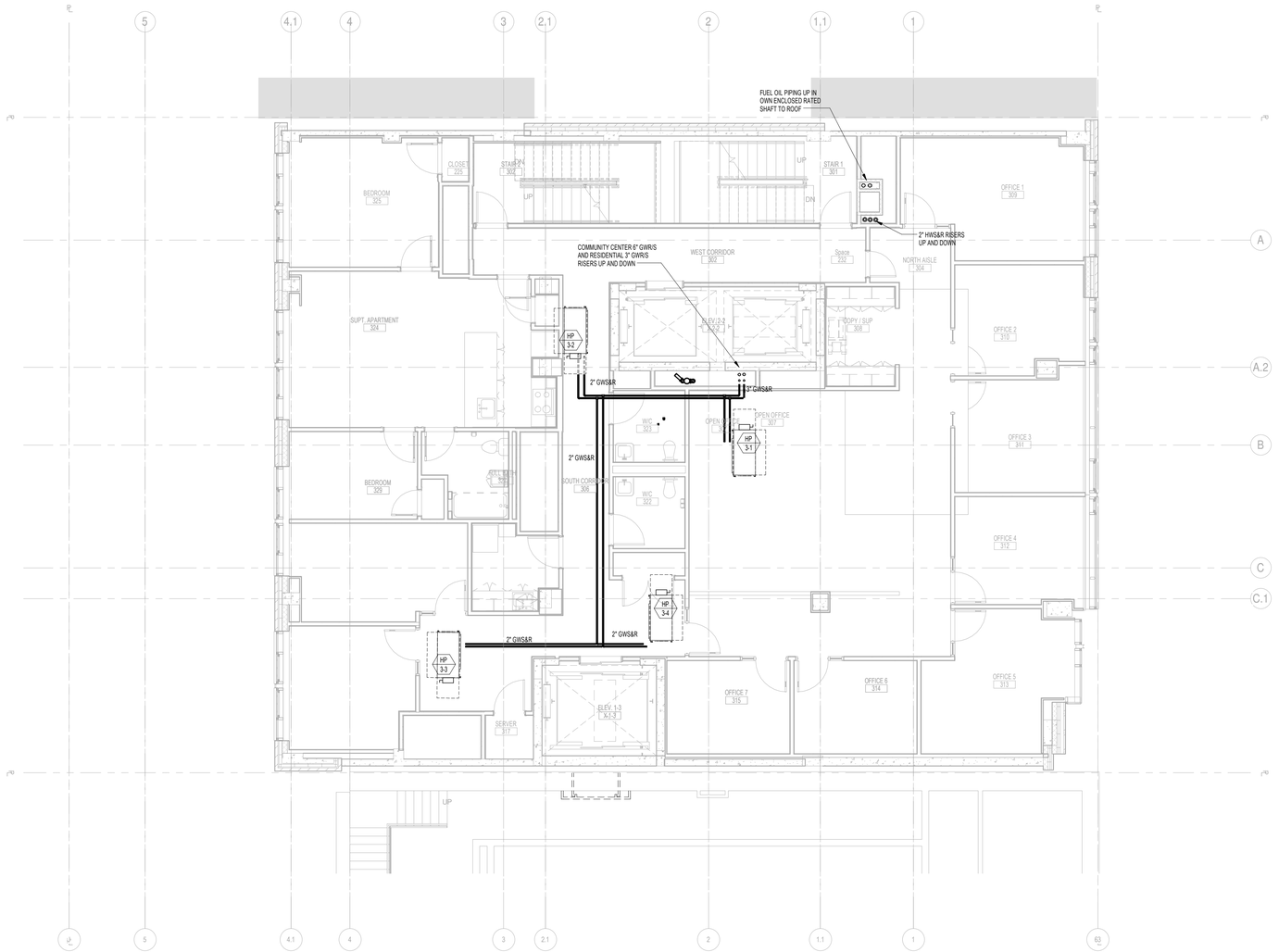

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03/03/2014	5	DOB FILING SET
01/31/2014	4	GUARANTEED MAXIMUM PRICE
01/10/2014	3	REVISED 80% PRICING SET
07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:
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Project Number: Y120612-000
Drawn By: CM
Checked By: CM
Scale: 3/16" = 1'-0"

Signature & Seal:

Sheet Number:
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NYC DOB Number:

Sheet: 18 of 33

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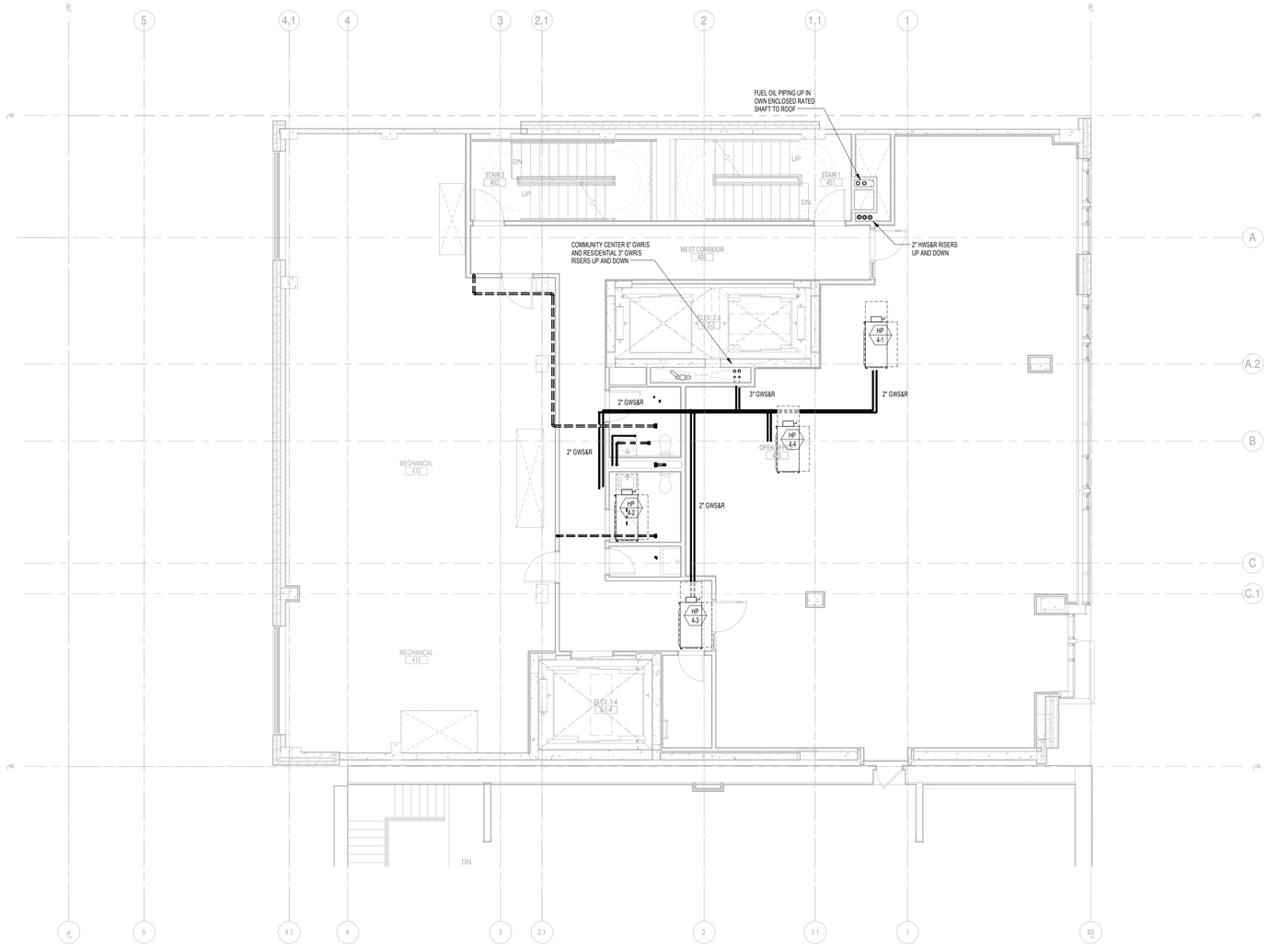

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Date: 05/04/2015
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Date:	No.:	Description:
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03/03/2014	5	DOB FILING SET
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07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:
MECHANICAL 4TH FLOOR PIPING PLAN

Project Number: Y120612-000
Drawn By: CM
Checked By: CM
Scale: 3/16" = 1'-0"
Signature & Seal:

Sheet Number:
M-304.00

NYC DOB Number:
Sheet: 19 of 33

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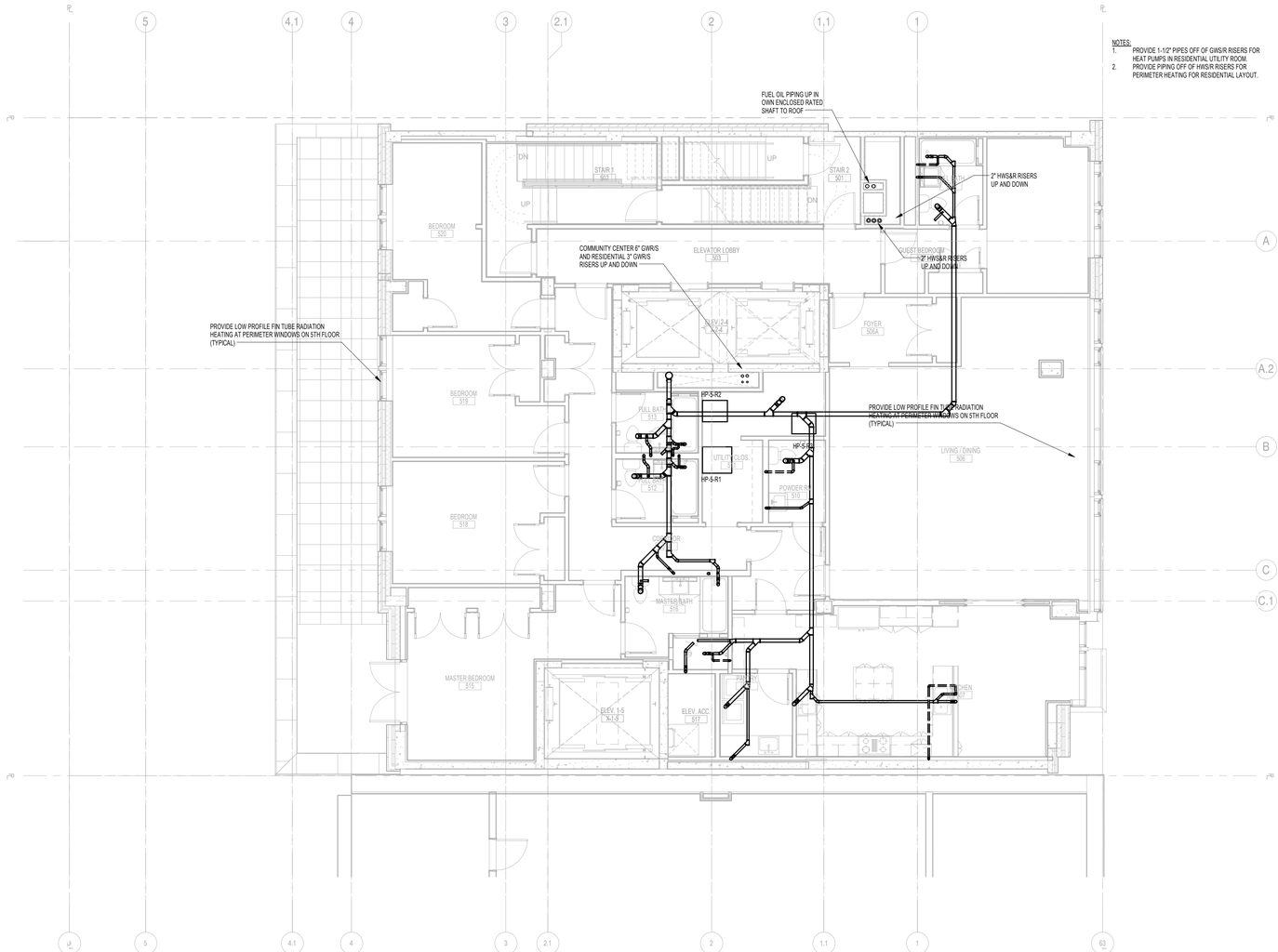

NOTES:
1. PROVIDE 1-1/2" PIPES OFF OF GWS/R RISERS FOR HEAT PUMPS IN RESIDENTIAL UTILITY ROOM.
2. PROVIDE PIPING OFF OF HWS/R RISERS FOR PERIMETER HEATING FOR RESIDENTIAL LAYOUT.

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E5446692833 Scan Code

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03/03/2014	5	DOB FILING SET
01/31/2014	4	GUARANTEED MAXIMUM PRICE
01/10/2014	3	REVISED 80% PRICING SET
07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
8 West 70th St

8 West 70th Street
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Sheet Title:
MECHANICAL 5TH FLOOR PIPING PLAN

Project Number: Y120612-000
Drawn By: CM
Checked By: CM
Scale: 3/16" = 1'-0"

Signature & Seal:

Sheet Number:
M-305.00

NYC DOB Number:

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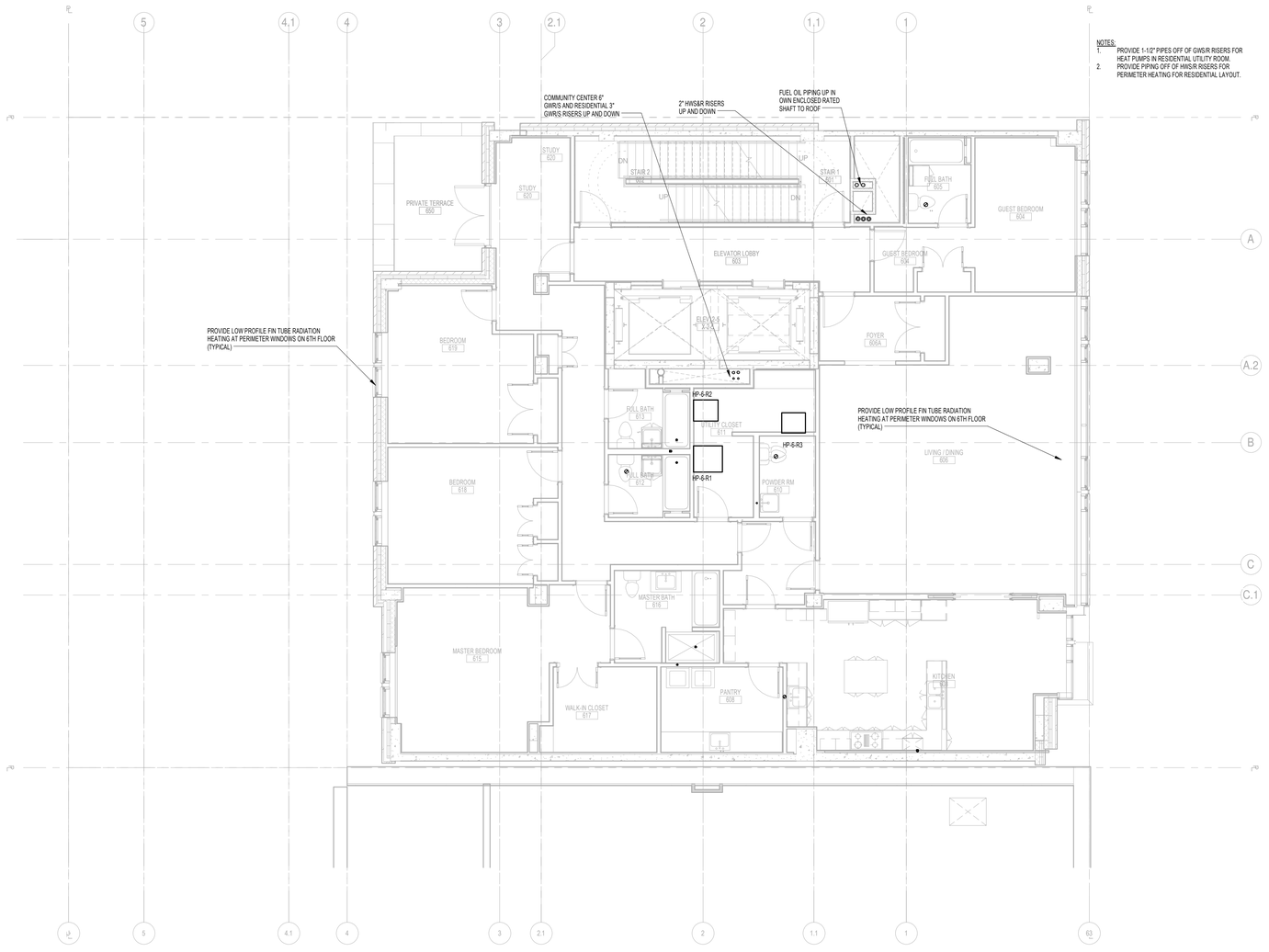

NOTES:
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Date:	No.:	Description:
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03/03/2014	5	DOB FILING SET
01/31/2014	4	GUARANTEED MAXIMUM PRICE
01/10/2014	3	REVISED 80% PRICING SET
07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:
MECHANICAL 6TH FLOOR PIPING PLAN

Project Number: Y120612-000
Drawn By: CM
Checked By: CM
Scale: 3/16" = 1'-0"
Signature & Seal:

Sheet Number:
M-306.00

NYC DOB Number:
Sheet: 21 of 33

Opp. Ex. 1001 Page 183 of 205

DEPT OF BLDGS 121328919 Job Number

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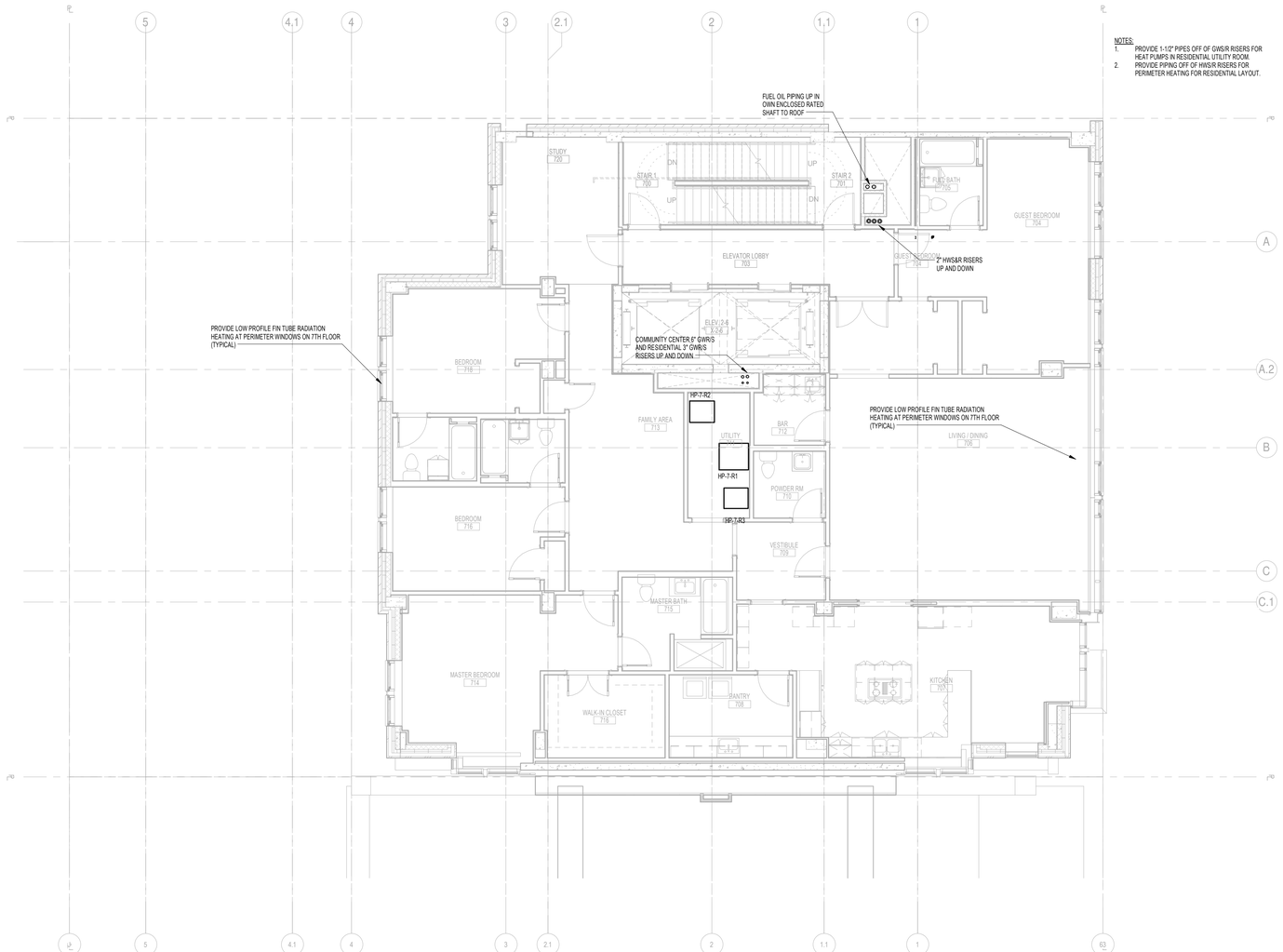

NOTES:
1. PROVIDE 1-1/2" PIPES OFF OF GWS/R RISERS FOR HEAT PUMPS IN RESIDENTIAL UTILITY ROOM.
2. PROVIDE PIPING OFF OF HWS/R RISERS FOR PERIMETER HEATING FOR RESIDENTIAL LAYOUT.

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Date:	No.:	Description:
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03/03/2014	5	DOB FILING SET
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01/10/2014	3	REVISED 80% PRICING SET
07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
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Sheet Title:
MECHANICAL 7TH FLOOR PIPING PLAN

Project Number: Y120612-000
Drawn By: CM
Checked By: CM
Scale: 3/16" = 1'-0"
Signature & Seal:

Sheet Number:
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NYC DOB Number:
Sheet: 22 of 33

Opp. Ex. 1001 Page 184 of 205

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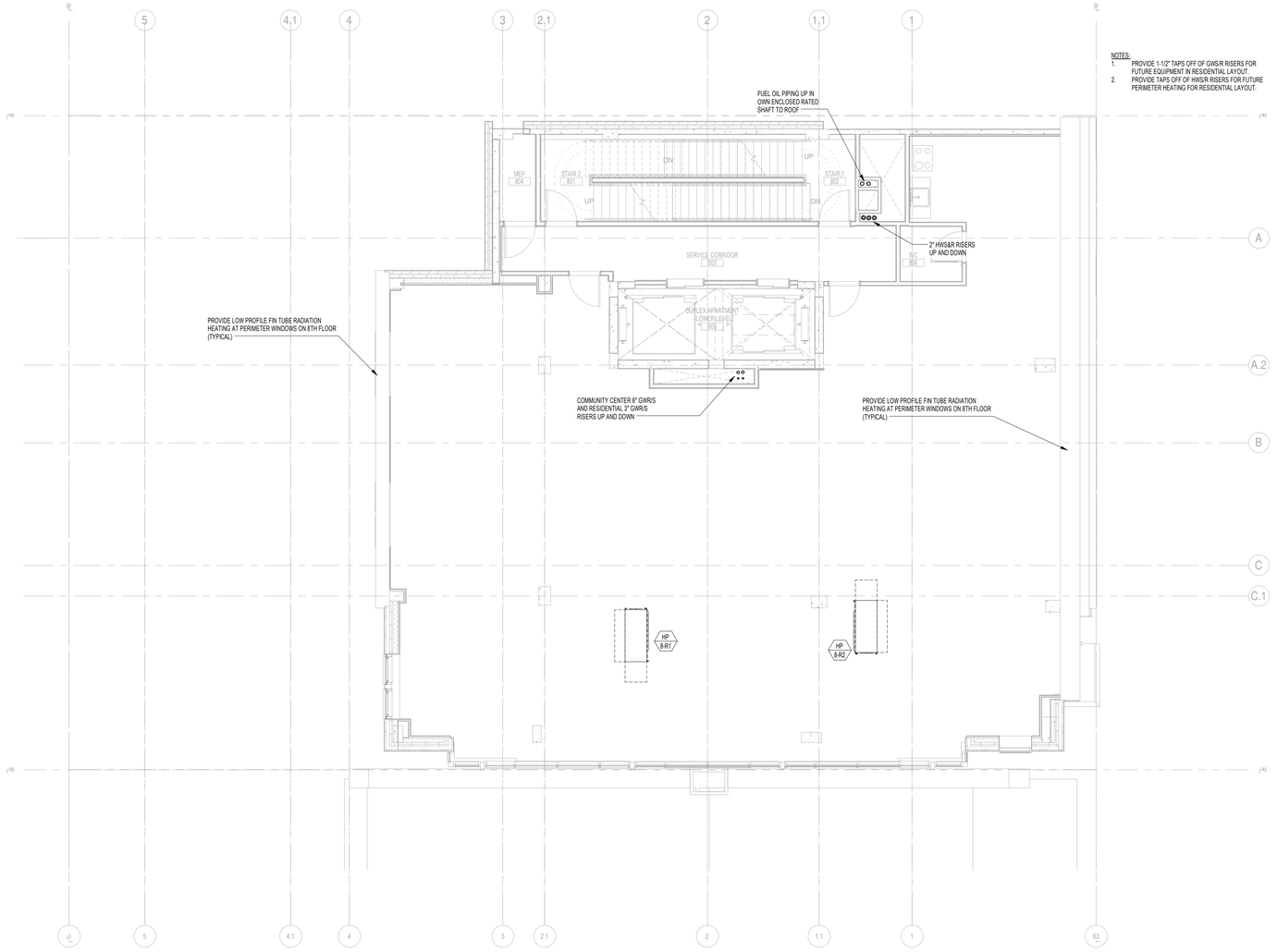

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Date:	No.:	Description:
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03/03/2014	5	DOB FILING SET
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01/10/2014	3	REVISED 80% PRICING SET
07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
8 West 70th St

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Sheet Title:
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Project Number: Y120612-000
Drawn By: CM
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Signature & Seal:

Sheet Number:
M-308.00

NYC DOB Number:
Sheet: 23 of 33

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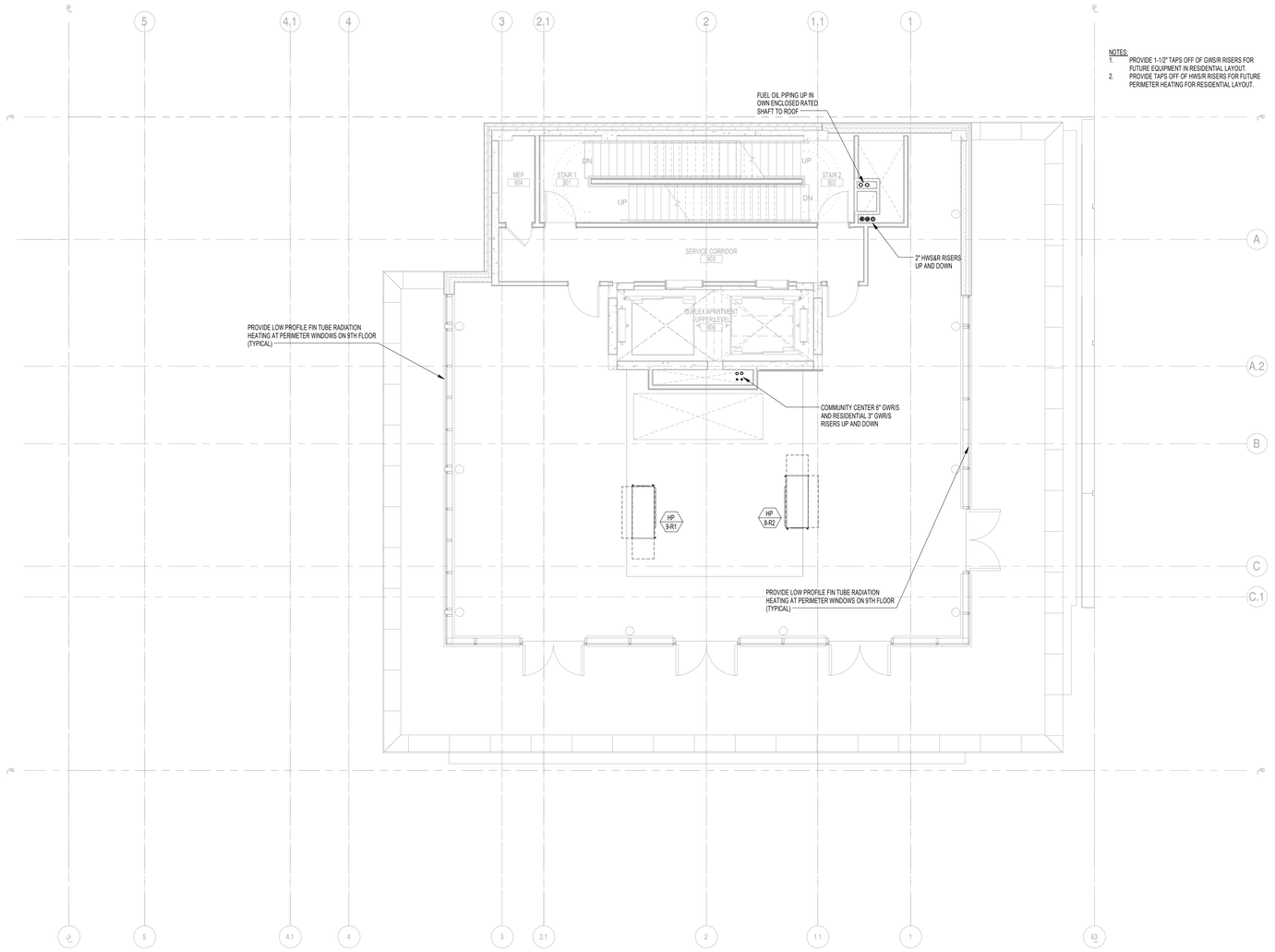

NOTES:
1. PROVIDE 1-1/2" TAPS OFF OF GWS/R RISERS FOR FUTURE EQUIPMENT IN RESIDENTIAL LAYOUT.
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ES106638910 Scan Code

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Project:
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Sheet Title:
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Project Number: Y120612-000
Drawn By: CM
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M-309.00

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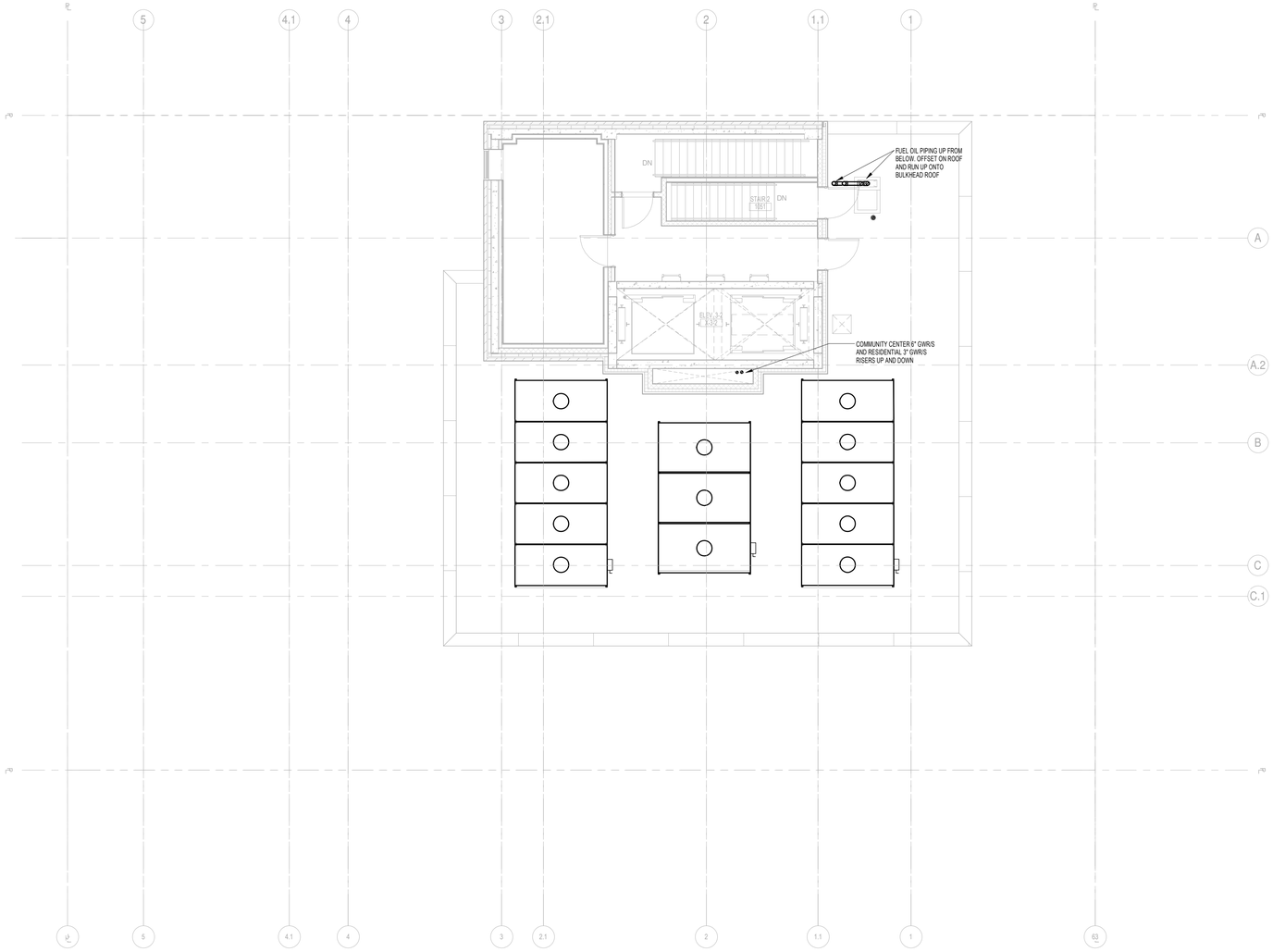

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Date:	No.:	Description:
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01/10/2014	3	REVISED 80% PRICING SET
07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
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Sheet Title:
MECHANICAL ROOF LEVEL PIPING PLAN

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Sheet Number:
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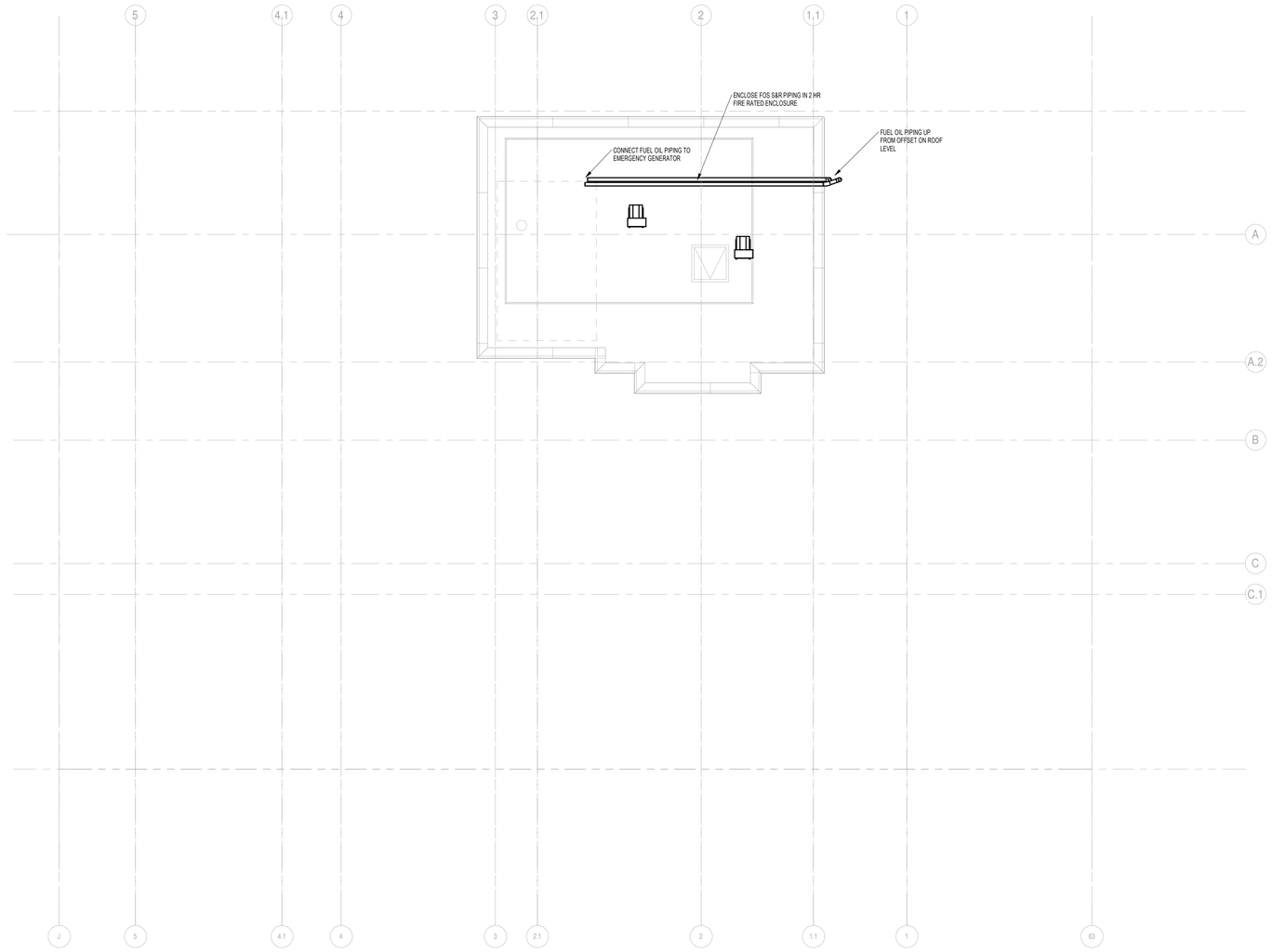
Sheet: 25 of 33



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ES968584050 Scan Code

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Date:	No.:	Description:
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01/10/2014	3	REVISED 80% PRICING SET
07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
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Sheet Title:
MECHANICAL BULKHEAD PIPING PLAN

Project Number: Y120612-000
Drawn By: CM
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Signature & Seal:

Sheet Number:
M-311.00

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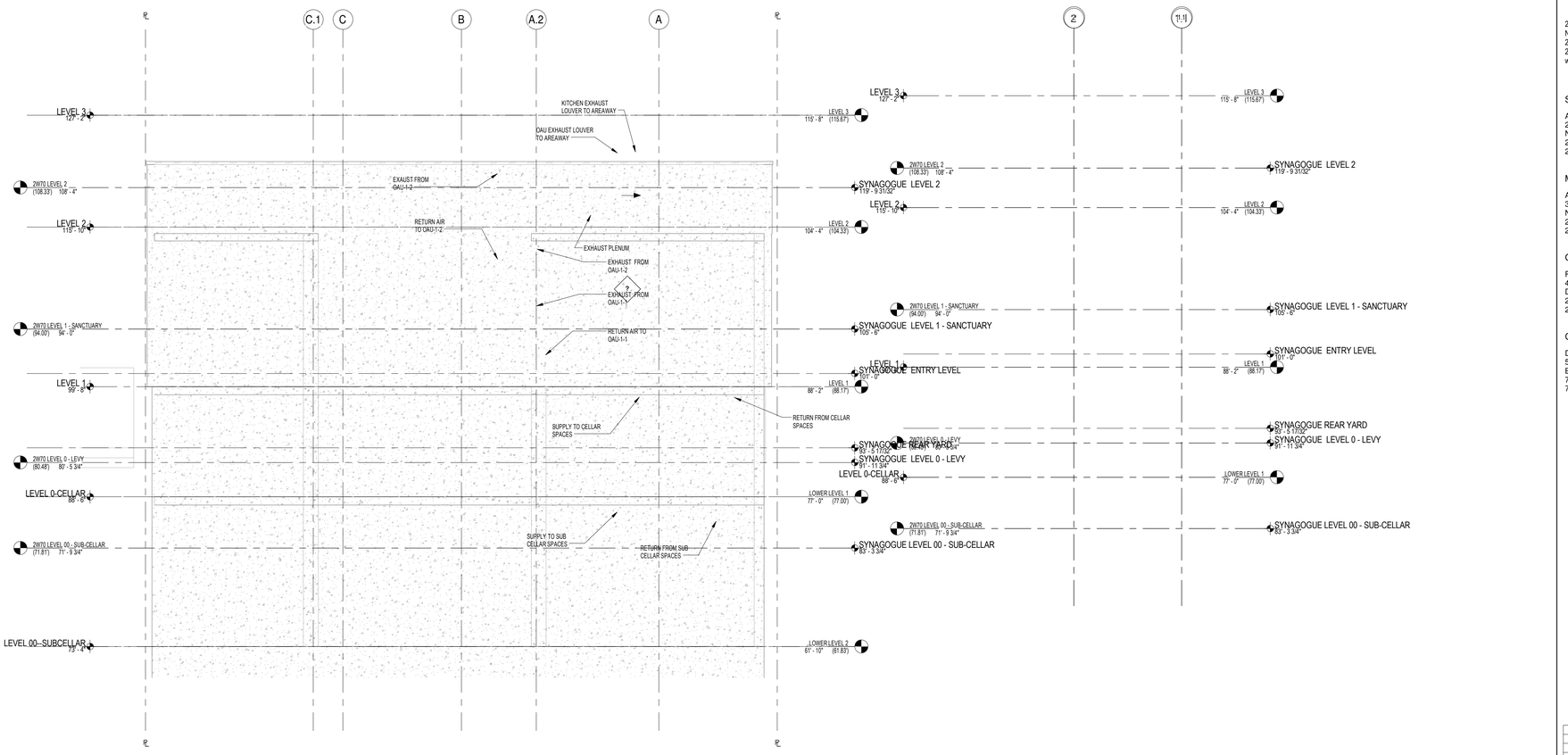

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New York, NY 10023

Sheet Title:
MECHANICAL SECTIONS

Project Number: Y120612-000
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Sheet Number:
M-400.00

NYC DOB Number:

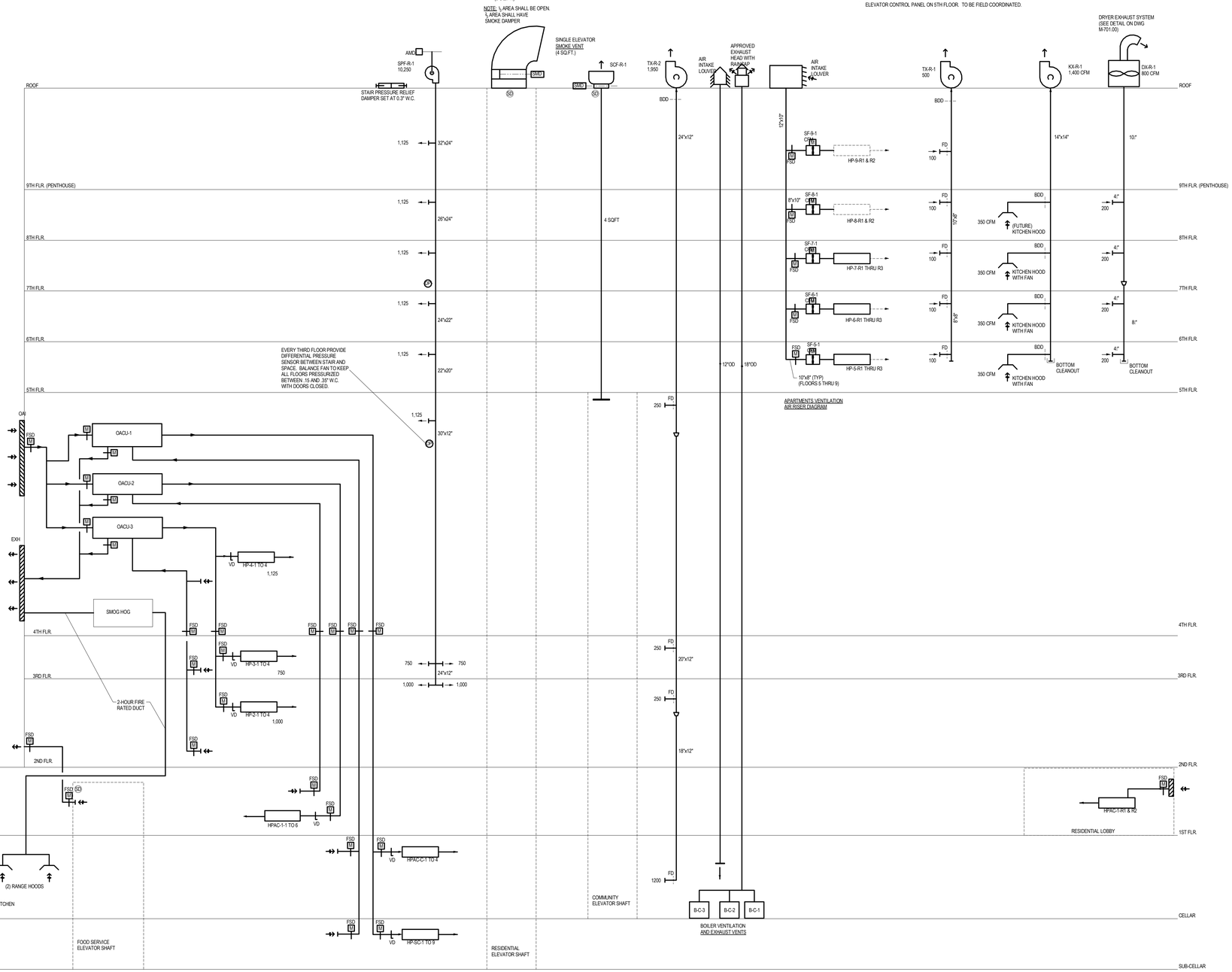
Sheet: 27 of 33

DEPT OF BLDGS 121329919 Job Number

ES4100912451 Scan Code

NOTES:

1. SMOKE EXHAUST FAN MANUAL SHUTOFF SHALL BE INSTALLED NEXT TO ELEVATOR CONTROL PANEL ON 5TH FLOOR. TO BE FIELD COORDINATED.



COMMUNITY CENTER AIRFLOW RISER DIAGRAM
(AIR QUANTITIES ARE IN STANDARD CFM)

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Shauqat Shaikh
NYC Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

08/06/2014	6	DOB FILING SET
03/03/2014	5	DOB FILING SET
01/31/2014	4	GUARANTEED MAXIMUM PRICE
01/10/2014	3	REVISED 80% PRICING SET
07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT
Date:	*No.:*	*Description:*

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Sheet Title:
MECHANICAL AIR SIDE RISER DIAGRAM

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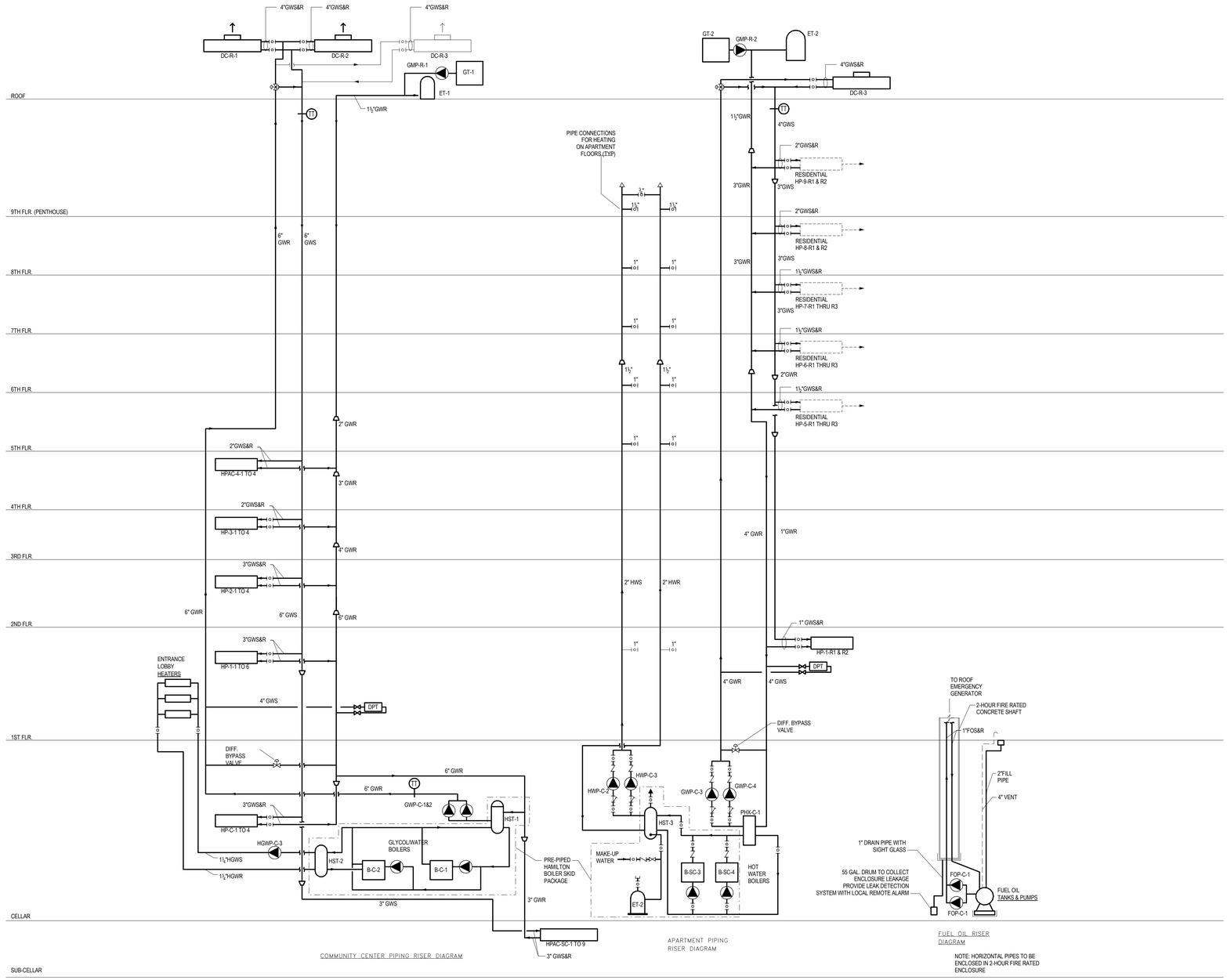

PIPING RISER DIAGRAM

DEPT OF BLDGS 121328919 Job Number

ES363425230 Scan Code

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Date:	No.:	Description:
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01/31/2014	4	GUARANTEED MAXIMUM PRICE
01/10/2014	3	REVISED 80% PRICING SET
07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT

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Sheet Title:
MECHANICAL WATER SIDE RISER DIAGRAM

Project Number: Y120612-000
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Sheet: 29 of 33

DEPT OF BLDGS 121328919 Job Number

ES359609907 Scan Code

DRY COOLER SCHEDULE (MAFNA AIR TECHNOLOGIES INC)

UNIT No.	LOCATION	SERVICE	HEAT REJECTION (MBH)	OUTSIDE AMBIENT AIR TEMP. DB (°F)	CONDENSER/GLYCOL WATER: GLYCOL (%)	EWT (°F)	LWT (°F)	GPM	MAX. P.D. (FT.)	FAN DATA: No.	CFM (EACH)	FAN TYPE	RPM	DRIVE TYPE	MOTOR HP (EA.)	STARTER TYPE	ELECTRICAL DATA: VOLTS	PHASE	HZ	UNIT DIMENSIONS: LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	OPERATING WT. (LBS)	MAXIMUM ALLOWABLE ENVELOPE DIMENSIONS (LxWxH)	MANUF. MODEL #	REMARKS
DC-R-1	ROOF	COMMUNITY	1307.1	97	30	115	105	275	23.28	5	80,000	AEROFOIL	1770	DIRECT	10	DOL	480	3	60	243	108	78	2259.9	243"x108"x78"	5WD1408B-BCEGL	FAN 71JM/20/4/6
DC-R-2	ROOF	COMMUNITY	1307.1	97	30	115	105	275	23.28	5	80,000	AEROFOIL	1770	DIRECT	10	DOL	480	3	60	243	108	78	2259.9	243"x108"x78"	5WD1408B-BCEGL	FAN 71JM/20/4/6
DC-R-3	ROOF	RESIDENTIAL	831.8	97	30	115	105	175	25.63	3	50,000	AEROFOIL	1770	DIRECT	10	DOL	480	3	60	173	108	78	1590.5	173"x108"x78"	5WD1408B-BCEGL	FAN 71JM/20/4/6

NOTES:
1. MAXIMUM NOISE RATING OF 46 DBA AT 50 FEET.
2. SINGLE POINT POWER CONNECTION

CONDENSING BOILER SCHEDULE (HAMILTON ENGINEERING EVO)

UNIT No.	LOCATION	SERVICE	GROSS INPUT MBTU/HR	NET OUTPUT MBTU/HR	BURNER PERFORMANCE DATA (GAS): FUEL TYPE	GAS FIRING RATE (MBH)	GAS TRAIN SIZE	MIN. PRESS. (IN W.G.)	BLOWER DATA (MOTOR): FLA	WATTS	ELECTRICAL DATA: VOLTS	PHASE	HZ	FLUID DATA: FLUID TYPE	PRIMARY GPM	EWT (°F)	LWT (°F)	RELIEF VALVE: No.	SETTING (PSIG)	SIZE	PRE-PIPED SKID DIMENSIONS: DEPTH (IN)	WIDTH (IN)	HEIGHT (IN)	OPERATING WT. (LBS) INCLUDING WATER	ACCESSORIES	MEA No. (NYC ONLY)	MANUF. MODEL #	REMARKS
B-C-1	CELLAR	COMMUNITY CENTER FLRS	1500	1425	NATURAL GAS	1500	1.5"	4-14	8.5	-	208	1	60	30% GLYCOL/WATER	62	94	140	1	125	1"	87	114	89	-	-	-	HWH 1499	-
B-C-2	CELLAR	COMMUNITY CENTER FLRS	1500	1425	NATURAL GAS	1500	1.5"	4-14	8.5	-	208	1	60	30% GLYCOL/WATER	62	94	140	1	125	1"	87	114	89	-	-	-	HWH 1499	STANDBY
B-C-3	CELLAR	RESIDENTIAL	400	380	NATURAL GAS	400	0.75"	4-14	2.34	-	208	1	60	HOT WATER	17.6	97	140	1	125	1"	50	69	90	-	-	-	HWH 399	-
B-C-4	CELLAR	RESIDENTIAL	400	380	NATURAL GAS	400	0.75"	4-14	2.34	-	208	1	60	HOT WATER	17.6	97	140	1	125	1"	50	69	90	-	-	-	HWH 399	STANDBY

ACCESSORIES:
1. HYDRAULIC SEPARATOR
2. RELIEF VALVE SET FOR 75 PSIG
3. PRIMARY GYLCOL AND WATER PUMPS WITH SUCTION DIFFUSER, CHECK AND BALL VALVES, PRESSURE GAUGES AND TEMPERATURE INDICTAORS
4. CONDENSATE NEUTRALIZER PACKAGES
5. SINGLE POINT POWER, GAS AND WATER SUPPLY/RETURN PIPING CONNECTIONS
6. 316 STAINLESS STEEL HEAT EXCHANGERS
7. MODULATING DIGITAL CONTROL SYSTEM
8. COMBUSTION AIR SUPPLY AND EXHAUST GAS FANS AND VENT DUCTS
9. AUTOMATIC AND MANUAL RESET LOW WATER CUTOFF
10. ELECTRICAL PANEL WITH SERVICE DISCONNECT
11. PRIMARY LOOP EXPANSION TANK

FAN SCHEDULE (GREENHECK)

UNIT No.	LOCATION	SERVICE	FAN TYPE	PERFORMANCE DATA: CFM	TOTAL SP (IN. W.G.)	RPM	BHP	MAX. OV (FPM)	CONSTRUCTION DATA: CLASS	ROT	DISCHARGE	ARRANG.	MOTOR DATA: DRIVE TYPE	MHP	STARTER TYPE	ELECTRICAL DATA: VOLTS	PHASE	HZ	VIBRATION ISOLATION (SPECIFICATIONS): MOUNTING TYPE	BASE TYPE	MIN. STATIC DEFLECTION (IN.)	MANUF. MODEL #	REMARKS
TX-R-1	ROOF	RES TOILETS	-	600	1.25	-	-	-	-	-	-	UPBLAST	-	1/3	VFD	208	3	60	ROOF	-	1	SWB-107	-
TX-R-2	BULKHEAD	COMM TOILETS	-	2175	1.25	-	-	-	-	-	-	UPBLAST	-	1	VFD	208	3	60	ROOF	-	1	SWB-212	-
SPF-R-1	ROOF	STAIRS	-	10253	1.25	-	-	-	-	-	-	INLINE	-	5	-	208	3	60	-	-	1	BSQ-240-50	-
KX-R-1	ROOF	RES. KITCHENS	-	600	1.25	-	-	-	-	-	-	UPBLAST	-	1	VFD	208	3	60	ROOF	-	1	SWB-107	-
SCF-R-1	ROOF	SINGLE ELEV	-	1950	1.25	-	-	-	-	-	-	UPBLAST	-	3/4	-	208	1	60	ROOF	-	1	S-CUBE-161HP-7	-
SCF-1-1	1ST FLR ROOF	PANTRY ELEV	-	600	1.25	-	-	-	-	-	-	UPBLAST	-	1/2	-	208	1	60	ROOF	-	1	S-CUBE-101HP-5	-

GLYCOL MAKEUP TANK & TANK (WESSELS)

UNIT No.	LOCATION	MAKEUP CAPACITY (GPM @ PSI)	DIMENSIONS: DIAMETER (INS)	HEIGHT (INS)	OPERATING WEIGHT (LBS)	ELECTRICAL DATA: HP	VOLTS	PHASE	HZ	MANUF. MODEL #	REMARKS
GT-1	ROOF	1.8 @ 70	28	67	110	1/2	115	1	60	GMP-15100	-
GT-2	ROOF	1.8 @ 70	28	67	110	1/2	115	1	60	GMP-15100	-

HEAT PUMP SCHEDULE (BASIS OF DESIGN: WATER FURNACE CO.)

UNIT TAG	LOCATION	TOTAL COOLING CAPACITY (MBH) EA.	SENSIBLE COOLING CAPACITY (MBH) EA.	UNIT CFM	FLUID TYPE	GPM	FLUID PRESSURE DROP (FT)	ELECTRICAL DATA: V/HZ/PH	FLA	MCA	COOLING DATA: ENTERING AIR TEMP (°F)	LEAVING AIR TEMP (°F)	ENTERING FLUID TEMP (°F)	LEAVING FLUID TEMP (°F)	HEATING CAPACITY (MBH)	HEATING DATA: ENTERING AIR TEMP (°F)	LEAVING AIR TEMP (°F)	ENTERING FLUID TEMP (°F)	LEAVING FLUID TEMP (°F)	EER	COP	MODEL NUMBER	REMARKS
HP-SC-1 THRU 8	SUB CELLAR	56.4	40.7	1850	30% PROP GLYCOL	18	16.4	208/60/3	24.6	29	81.4	55	105	115	71.5	70	105	70	62	12.5	4.53	ENVISION COMPACT NBH-072	-
HP-SC-9	SUB CELLAR	65	58	2200	30% PROP GLYCOL	18	11	208/60/3	24.6	29	85	58	105	115	89	70	110	70	62.3	13.9	4.68	ENVISION COMPACT NBH-072	-
HP-C-1 THRU 4	CELLAR	50.85	34.8	1500	30% PROP GLYCOL	16	17.3	208/60/3	23.5	27.6	80.7	57	105	115	61.7	70	108	70	62.3	12.5	4.84	ENVISION COMPACT NBH-064	-
HP-1-1 THRU 6	FIRST FLOOR	56.4	40.7	1850	30% PROP GLYCOL	18	16.4	208/60/3	24.6	29	81.8	55	105	115	71.5	70	105	70	62	12.5	4.53	ENVISION COMPACT NBH-072	-
HP-2-1 THRU 4	2ND FLOOR	56.4	40.7	1850	30% PROP GLYCOL	18	16.4	208/60/3	24.6	29	81.1	52	105	115	71.5	70	105	70	62	12.5	4.53	ENVISION COMPACT NBH-072	-
HP-3-1 THRU 4	3RD FLOOR	31.2	23.4	1050	30% PROP GLYCOL	9	9	208/60/3	18.6	21.5	77.7	55	105	115	34	70	101	70	62.5	12.2	4.95	ENVISION COMPACT NBH-038	-
HP-4-1 THRU 4	4TH FLOOR	25.6	19.2	900	30% PROP GLYCOL	8	5	208/60/3	18.6	21.5	80.9	58	105	115	29.3	70	101	70	62.5	12.2	5.67	ENVISION COMPACT NBH-038	-
HP-1-R1 & R2	RES LOBBY/EMR	8.8	6.3	300	30% PROP GLYCOL	2	8	208/60/3	4.7	5.7	80	55	105	115	11.4	70	98.3	70	61.1	17.5	4.45	NB-009	EMERSON COMPACT SINGLE SPEED WITH PSC
HP-5-R1, HP-6-R1, HP-7-R1	UTILITY ROOM	54.9	37.4	1500	30% PROP GLYCOL	16	11.6	208/60/3	18.6	21.5	76	53	105	115	74.4	70	115.9	70	62.6	21.1	4.84	ENVISION COMPACT NBV-064	-
HP-5-R2, HP-6-R2, HP-7-R2	UTILITY ROOM	34.2	24.6	1050	30% PROP GLYCOL	9	6.1	208/60/3	10.5	12.1	76	53	105	115	41	70	103	70	61	12.2	4.95	ENVISION COMPACT NBV-038	-
HP-5-R3, HP-6-R3, HP-7-R3	UTILITY ROOM	12.5	8.6	400	30% PROP GLYCOL	4	5.9	208/60/1	10.2	11.8	76	53	105	115	16.7	70	106	70	61.6	12	4.87	ENVISION COMPACT NBV-015	-
HP-8-R1 THRU R2	8TH FLOOR	43.6	30.8	1350	30% PROP GLYCOL	12	8	208/60/3	21	24.5	80	55	105	115	54.4	70	101	70	62.5	12.3	4.6	ENVISION COMPACT NBH-049	-
HP-9-R1 THRU R2	9TH FLOOR	43.6	30.8	1350	30% PROP GLYCOL	12	8	208/60/3	21	24.5	80	55	105	115	54.4	70	101	70	62.5	12.3	4.6	ENVISION COMPACT NBH-049	-

NOTES:
1. FX-10 CONTROL WITH BACNET INTERFACE
2. HOT GAS REHEAT AND BYPASS CONTROL
3. VARIABLE SPEED ECM MOTOR
4. HORIZONTAL UNIT HANGER KITS
5. DUAL CAPACITY SUPER QUIET COMPRESSORS USING R-410A REFRIGERANT
6. SINGLE POINT POWER CONNECTION WITH NON-FUSED DISCONNECT
7. MERV 13, 2" THICK FILTERS
8. INTERNALLY MOUNTED WATER FLOW REGULATOR

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Sheet Title:
MECHANICAL SCHEDULES (1 OF 2)

Project Number: Y120612-000

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DESICCANT HEAT RECOVERY AIR HANDLING UNIT SCHEDULE WITH PREHEAT

BASIS OF DESIGN: SEMCO AND TRANE (PERFORMANCE CLIMATE CHANGE)

UNIT No.	LOCATION	SERVICE	UNIT SIZE	MODEL	SUPPLY FAN ARRANG.	TOTAL SUPPLY CFM	MIN/MAX OUTSIDE AIR	MAX DEW POINT SUMMER (DB) (°F)	OUTDOOR AIR FILTER DATA – PREFILTER TYPE/ DEPTH	PREFILTER MERV EFF.	PREFILTER FACE AREA (SF)	FINAL FILTER TYPE/ DEPTH	FINAL FILTER MERV EFF.	FINAL FILTER FACE AREA (SF)	RETURN AIR FILTER DATA TYPE/ DEPTH	MERV EFF.	FACE AREA (SF)
OACU-1	4TH FLOOR MER	CELLAR & SUBCELLAR	222	SEMCO EPHW-9	3H	14,000	8,000/14,000	67	2" PANEL	8	24	4" CARTRIDGE	14	24	2" PANEL	8	24
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OACU-2	4TH FLOOR MER	1ST FLOOR	14	TRANE PERF CLIMATE CHANGER	3	8,000	6,000/8,000	67	2" PANEL	8	18	4" CARTRIDGE	14	18	2" PANEL	8	18
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OACU-3	4TH FLOOR MER	2ND, 3RD, & 4TH FLRS	21	TRANE PERF CLIMATE CHANGER	3	10,500	6,000/10,500	67	2" PANEL	8	33.3	4" CARTRIDGE	14	33.3	2" PANEL	8	33.3

ENTHALPY WHEEL DATA (WHEEL WITH EXHAUST, AND SUPPLY AIR BYPASS DAMPERS)

UNIT No.	WHEEL SIZE CFM	SUMMER OA DB/WB (°F)	SUMMER EXH. AIR DB/WB (°F)	SUMMER LA DB/WB (°F)	SUMMER RA DB/WB (°F)	WINTER OA DB/WB (°F)	WINTER EXH. AIR DB/WB (°F)	WINTER LA DB/WB (°F)	WINTER RA DB/WB (°F)	WHEEL MOTOR HP	TOTAL ENERGY EFFECTIVENESS SUMMER/WINTER	PD (IN)
OACU-1	8,500	95/75	92.3/72.8	80.7/66.2	75/62.5	10 DB	28 DB	55 DB	70 DB	0.25	0.75	0.97
-	-	-	-	-	-	-	-	-	-	-	-	-
OACU-2	7,000	97/76	91.7/72.9	80.6/66.6	75/62.5	6 DB	25 DB	56.2 DB	72 DB	0.5	0.744/0.752	0.93
-	-	-	-	-	-	-	-	-	-	-	-	-
OACU-3	8,500	97/76	92.3/73.2	80.2/66.4	75/62.5	6 DB	24 DB	58 DB	72 DB	0.5	0.765/0.775	0.93

HOT WATER PREHEAT COIL DATA

UNIT No.	COIL TYPE	COIL FACE AREA (SQ. FT.)	HEATING CAPACITY (MBH)	EA DB (°F)	LA DB (°F)	EWT (°F)	LWT (°F)	HW (GPM)	WATER PD (FT) MAX	COIL ROWS (FPI)	FACE VELOCITY (FPM)	AIR PD (IN)
OACU-1	HWC	9.62	495	10	67.2	140	120	50	8	2/12	415	0.1
-	-	-	-	-	-	-	-	-	-	-	-	-
OACU-2	UW	13.65	378	10	60	140	120	38	8	4/8	512	0.45
-	-	-	-	-	-	-	-	-	-	-	-	-
OACU-3	UW	13.65	459	10	60	140	120	46	8	4/8	622	0.45

DESICCANT HEAT RECOVERY AIR HANDLING UNIT SCHEDULE WITH PREHEAT

SUPPLY FAN DATA

TYPE OF FAN	MODEL	CLASS	DRIVE	EXTERNAL SP (IN)	SUPPLY CFM	TOTAL SP (IN)	FAN RPM	BHP	MOTOR HP
PLENUM AIRFOIL	EPF222	III	BELT	2	14,000	4.5	-	17.9	20
-	-	-	-	-	-	-	-	-	-
PLENUM AIRFOIL	AF	II	BELT	2.5	8,000	7.0	2622	17	20
-	-	-	-	-	-	-	-	-	-
PLENUM AIRFOIL	AF	II	BELT	3.0	10,500	5.83	1813	18	20

EXHAUST FAN DATA

TYPE OF FAN	MODEL	CLASS	DRIVE	ECONOMIZER MODE EXTERNAL SP (IN)	ECONOMIZER MODE EXHAUST CFM	SMOKE EXHAUST MODE EXT. SP (IN)	MIN. SMOKE EXHAUST MODE CFM	NORMAL MODE TOTAL SP (IN)	ECONOMIZER MODE FAN RPM	ECONOMIZER MODE BHP	ECONOMIZER MOTOR HP
PLENUM AIRFOIL	EPF 222	III	BELT	2.0	14,000	1.0.	8,600/5,000 SUB CELLAR/CELLAR	4.5	-	17.9	20
-	-	-	-	-	-	-	-	-	-	-	-
PLENUM AIRFOIL	AF	II	BELT	2.0	8000	1.5	6,700	4	2267	11.5	15
-	-	-	-	-	-	-	-	-	-	-	-
PLENUM AIRFOIL	AF	II	BELT	2.0	10,500	1.0	4,000	3.76	1597	12.47	15

PHYSICAL DATA / ELECTRICAL DATA

WALL THICKNESS (IN)	MAX HEIGHT (IN)	MAX WIDTH (IN)	MAX LENGTH (IN)	# OF SECTIONS	INSTALLED WEIGHT (LBS)	V/PH/Hz	FLA (AMPS)	MCA (AMPS)	MCOP (AMPS)	REMARKS
2" MIN.	84.25	98.25	215.75	4	-	208/3/60	150	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2" MIN.	83.25	72	183.87	3	4,200	208/3/60	57+44+2.3	71.3+54.3+2.9	128.3+97.7+5.2	(3) ELECTRICAL CIRCUITS
-	-	-	-	-	-	-	-	-	-	-
2" MIN.	105.75	80	186.75	4	5,200	208/3/60	57+43+2.3	71.3+54.3+2.9	128.3+97.7+5.2	(3) ELECTRICAL CIRCUITS

NOTE:
1. ALL UNITS SHALL HAVE NON-FUSED DISCONNECT SWITCH FAN VFD'S FOR ALL UNITS SHALL BE PR-WIRED AND INSTALLED.
2. ALL FANS SHALL BE INTERNALLY ISOLATED WITH SPRING VIBRATION ISOLATORS WITH MINIMUM 1.5 INCH DEFLECTION.
3. ALL COILS SHALL BE REMOVABLE FROM TOP OF THE UNIT.
4. FILTER SECTION SHALL HAVE DIFFERENTIAL PRESSURE GAUGE FOR EACH TYPE OF FILTER.
5. SUPPLY AND EXHAUST FANS ARE AIR FOIL PLENUM CENTRIFUGAL FANS.

PUMP SCHEDULE

(BASIS OF DESIGN: AMERICAN-MARSH PUMP)

PUMP No.	SERVICE	LOCATION	FLUID	PERFORMANCE DATA GPM	FLUID TEMP (°F)	REQUIRED NPSH	TDH (FT. H2O)	RPM	BHP	CONSTRUCTION DATA TYPE	SUCTION/DISCHARGE SIZES (IN.)	DESIGN PRESS. (PSI)	MODEL NUMBER	OPERATING WEIGHT (LBS)	MOTOR DATA MHP	STARTER TYPE	ELECTRICAL DATA VOLTS	PHASE	HZ	VIBRATION ISOLATION MOUNTING TYPE	BASE TYPE	MIN. STATIC DEFLECTION(IN.)	REMARKS
GWP-C-1	COMMUNITY CENTER HEAT PUMPS	CELLAR	35% PP GLYCOL	550	115	-	100	1750	17.50	BASE MTD	3x4	150	3x4-10REF	650	25	VFD	208	3	60	SPRING	INERTIA	1.5"	-
GWP-C-2	COMMUNITY CENTER HEAT PUMPS	CELLAR	35% PP GLYCOL	550	115	-	100	1750	17.50	BASE MTD	3x4	150	3x4-10REF	650	25	VFD	208	3	60	SPRING	INERTIA	1.5"	STANDBY
HGWP-C-3	COMMUNITY CENTER LOBBY	CELLAR	35% PP GLYCOL	6	120	-	24	3300	-	CIRCULAR	1x1	150	1GT-1/3	25	1/3	COMB. MAG.	110	1	60	SPRING	-	1.5"	-
HWP-C-2	RESIDENTIAL HEATING LOOP	CELLAR	WATER	50	120	-	90	1750	2.3	INLINE	2.5x2.5	150	2.5x2.5-10B-REI	250	7.5	VFD	208	3	60	SPRING	-	1.5"	-
HWP-C-3	RESIDENTIAL HEATING LOOP	CELLAR	WATER	50	120	-	90	1750	2.3	INLINE	2.5x2.5	150	2.5x2.5-10B-REI	250	7.5	VFD	208	3	60	SPRING	-	1.5"	STANDBY
GWP-C-3	RESIDENTIAL HEAT PUMP CIRCUIT	CELLAR	35% PP GLYCOL	175	115	-	100	3500	6.63	INLINE	2.5x2.5	150	2.5x2.5-5A-REI	450	10	VFD	208	3	60	SPRING	-	1.5"	-
GWP-C-4	RESIDENTIAL HEAT PUMP CIRCUIT	CELLAR	35% PP GLYCOL	175	115	-	100	3500	6.63	INLINE	2.5x2.5	150	2.5x2.5-5A-REI	450	10	VFD	208	3	60	SPRING	-	1.5"	STANDBY

PLATE AND FRAME HEAT EXCHANGER SCHEDULE

(BELL & GOSSETT)

UNIT No.	LOCATION	SERVICE	CAPACITY BTU/HR	HEATING MEDIUM – HOT WATER FLOW (GPM)	PRESS. DROP (PSI)	INLET TEMP. (°F)	OUTLET TEMP. (°F)	FOULING FACTOR	HEATED FLUID – 35% PROPYLENE GLYCOL FLOW (GPM)	PRESS. DROP (PSI)	INLET TEMP. (°F)	OUTLET TEMP. (°F)	FOULING FACTOR	MAX. WORKING PRESS. (PSIG)	SHELL WIDTH (IN.)	HEIGHT (IN.)	No. OF PLATES	MAX. WORKING PRESS. (PSIG)	MANUF. MODEL #	REMARKS
PHX-C-1	CELLAR	-	260,000	26.32	-	140	120	0.00025	170	-	68	71.27	0.00025	-	7.5	24.5	50	150	BP	316 STAINLESS STEEL
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

EXPANSION TANK SCHEDULE

(BELL & GOSSETT)

TANK No.	LOCATION	SERVICE	TYPE	TANK VOLUME (GAL.)	ACCEPTANCE VOLUME (GAL.)	LENGTH (FT-IN.)	DIAMETER (FT-IN.)	MIN. CHARGE PRESSURE (PSIG)	WORKING PRESSURE (PSIG)	SYSTEM OPER. TEMP. (°F)	OPERATING WEIGHT (LBS.)	MANUF.& MODEL #	REMARKS
ET-1	ROOF	35% PP GLYCOL	BLADDER	80	80	4'-3"	2'-0"	12	125	115	950	B-300	
ET-2	ROOF	35% PP GLYCOL	BLADDER	53	53	3'-1"	2'-0"	12	125	115	6350	B-200	
-	-	-	-	-	-	-	-	-	-	-	-	-	

FUEL OIL STORAGE TANK SCHEDULE

(MASS TANK)

UNIT No.	LOCATION	TYPE	MATERIAL OUTER WALL	MATERIAL INNER WALL	CAPACITY (GAL.)	DIA. (FT.-IN.)	LENGTH (FT.-IN.)	EMPTY WEIGHT (LBS.)	TANK MANUF. MODEL #	TANK GAUGE/ OVERFILL ALARM SYSTEM MANUF./MODEL	LEAK DETECTION SYSTEM MANUF./MODEL	REMARKS
FOT-C-1	CELLAR	INDOOR ABOVE GROUND	STEEL	-	275	3'-0"	5'-7"	1,120	AG/DK275	-	-	PROVIDE WITH 54"x82" CONTAINMENT BASIN - (150% STORAGE)

ACCESSORIES:
1. LEAK DETECTION WITH ALARM CONTACT TO BMS
2. DESIGNED FOR 25 PSI HYDRO TEST
3. UL 142 AND NYC COMPLIANCE
4. EXTERIOR WHITE PAINT

FIN TUBE RADIATION SCHEDULE

(JAGA)

TYPE	ROOM AIR (°F) DB	OUTPUT (BTU/HR/FT) SINGLE ROW	OUTPUT DOUBLE ROW	LENGTH (FT-IN)	WATER GPM	PD (FT. H2O)	EWT (°F)	LWT (°F)	TUBES MATERIAL	TUBES DIAM. (IN.)	FINS MATERIAL	FINS NO./LIN. FT	FINS SIZE (IN.xIN.)	THICKNESS (IN.)	ENCLOSURE TYPE	HEIGHT (IN.)	LENGTH (IN.)	DEPTH (IN.)	MANUF. MODEL #	REMARKS
FTR-A	68	994.5	-	SEE PLAN	0.2	-	140	120	-	-	-	-	-	-	-	5	VARIES	3	MINI FREE	-

FUEL OIL PUMP SCHEDULE

(PREFERRED UTILITIES)

UNIT No.	LOCATION	SERVICE	OIL TEMP. (°F)	GPH (EACH)	DISC. PRESSURE (PSIG)	RPM	MOTOR HP (EACH)	ELECTRICAL DATA VOLTS	PHASE	HZ	MANUF. MODEL #	REMARKS
FOP-C-1	CELLAR	EMER. GEN.	75	80	100	1725	0.33	120	1	60	ATPS-103	-
FOP-C-2	CELLAR	EMER. GEN.	75	80	100	1725	0.33	120	1	60	ATPS-103	-

ACCESSORIES:
1. PRE-PIPED UNIT WITH CONTROL PANEL
2. PUMP SET BASE LEAK DETECTION SYSTEM
3. ANCHOR BOLTS FOR GROUTING ON CONCRETE PAD

KITCHEN EXHAUST GREASE REMOVAL PRECIPITATOR SYSTEMS

(BASED ON U.A.S INC. SMOG-HOG)

UNIT NO.	LOCATION	SERVICE	MODEL NO.	CFM	STATIC LOSSES ESP " W.G.	DOUBLE PASS ELECTROSTATIC MODULE (NOTE #12) STATIC LOSSES SYSTEM " W.G.	ASHRAE EFFICIENCY %	ONE PASS CELL FACE AREA (FT2)	AIR VEL. THROUGH CELLS	COLLECTOR PLATE LENGTH	ODOR CONTROL FILTERS PRE FILTER	CARBON MODULE	CONSUMABLE NO. DETERGENT MAX. GAL.	HOT WATER MAX. GAL. @40-50 PSI	PRECIPITATOR DIMENSIONS WIDTH (IN.) (NOTE #9)	HEIGHT (IN.)	LENGTH (IN.) (NOTE #10)	APPROX. WEIGHT (LBS) (NOTE #11)	ELECTRICAL DATA FAN MODEL	MAX. CFM	FAN SET S.P.	MOTOR HP	V/PH/HZ	dBA	FLA	REMARKS	REMARKS
KX4-1	4TH FLOOR MER	CELLAR KITCHEN	PSG-23-2 AIOFCSB R/L	8,000	4.0	7.0	98%	23.3	352	14"	BAFFLE	COCONUT SHELL	4.8	20	71	70	205	6,000	22-BISW-41	8,100	7.0	15	208/3/60	88	52	1 THRU 14	NYC MEA # 88-88-E NYC BEC #43671 SEE NOTES FOR ADDITIONAL REQUIREMENTS GREY POLANE EXTERNAL FINISH

NOTES
1. FACTORY INLET TRANSITION PROVIDED.
2. PRE-PIPED FOR FIRE SUPPRESSION.
3. VARIABLE FREQUENCY DRIVE TO BE PROVIDED.
4. PRESSURE TRANSDUCERS ACROSS NON ELECTROSTATIC FILTERS WITH FEEDBACK LOOP TO VFD TO MAINTAIN CONSTANT CFM AND NFPA 96 COMPLIANT VELOCITY OF 1500 FPM, WARNING LIGHT ON PANEL.
5. PRECIPITATORS AND FANS SHALL BE FACTORY PRE-WIRED SO THAT THE ONLY FIELD WIRING REQUIRED IS TO BRING 3 PHASE POWER TO THE VFD(ANY ANSUL WIRING IS NOT INCLUDED).
6. PRECIPITATORS AND FANS SHALL BE PRE-PLUMBED WITH DETERGENT TANK MOUNTED ON RAIL SO ONLY FIELD PLUMBING FOR AUTOMATIC WASH SYSTEM IS TO JOIN WATER SUPPLY TO SOLENOID-DRAIN PLUMBING IS NOT INCLUDED IN PRE-PLUMBING.
7. PROVIDE REPLACEMENT CELLS QUANTITY EQUAL TO FIRST ESP PASS.
8. ADVANCED REMOTE CONTROL PANEL SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
a. AUTOMATIC ON/OFF
b. DAYTIME SAVINGS CORRECTION
c. LOW DETERGENT INDICATOR LIGHT
d. CELL VOLTAGE AND AMP MONITOR
e. EACH FUNCTION DISPLAYED ON CONTROL PANEL
f. SHALL HAVE CORRESPONDING TERMINAL TO MONITOR STATUS BY BMS
9. ADD 36" SERVICE ACCESS ONE SIDE ONLY.
10. LENGTH INCLUDES FAN AND TRANSITION.
11. WEIGHT OF UNIT WITH UNDRAINED WATER.
12. SINGLE PASS EFFICIENCY % ASHRAE 52-76 METHOD.
13. PROVIDE SEISMIC HOUSED SPRING VIBRATION ISOLATOR FOR FAN WITH MINIMUM 2 INCHES DEFLECTION.
14. PROVIDE HOLES FOR ANCHOR BOLTS TO CONCRETE PAD

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DEPT OF BLDGS 121328919 Job Number

ES186493539 Scan Code

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NYC Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08/06/2014	6	DOB FILING SET
03/03/2014	5	DOB FILING SET
01/31/2014	4	GUARANTEED MAXIMUM PRICE
01/10/2014	3	REVISED 80% PRICING SET
07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT

Project:
8 West 70th St

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New York, NY 10023

Sheet Title:
MECHANICAL SCHEDULES (2 OF 2)

Project Number: Y120612-000
Drawn By: CM
Checked By: CM
Scale: 12" = 1'-0"
Signature & Seal:
STATE OF NEW YORK · JACOB JL LAWRENCE III · 079475 · LICENSED PROFESSIONAL ENGINEER

Sheet Number:
M-601.00

NYC DOB Number:
Sheet: 31 of 33

DEPT OF BLDGS121329919 Job Number
ES8302045 Scan Code

PIPE HANGER & SUPPORT SCHEDULE

FIG NO.	LESS THAN 1/2" MOVEMENT EXCEPT AS NOTED: NON. ROLL	CHR ILRS	HOT ILRS	MORE THAN 1/2" MOVEMENT EXCEPT AS NOTED: NON. ROLL	CHR ILRS	HOT ILRS
OVERHEAD SUPPORTS (HORIZONTAL PIPING):						
1	★					
2		★				
3			★			
4				★		
5					★	
6						★
7				★		
8					★	
9						★
10	★					
11		★				
12			★			
WALL SUPPORTS (HORIZONTAL PIPING):						
13	★					
14		★				
15			★			
16				★		
17					★	
18						★
19	★	★	★	★	★	★
FLOOR SUPPORTS (HORIZONTAL PIPING):						
20			★			
21				★		
22						★
23	★					
24		★				
25			★			
FLOOR SUPPORTS (VERTICAL PIPING):						
26	★	★	★	★	★	★
27	★	★	★			
28				★	★	★
OVERHEAD SUPPORTS (VERTICAL & HORIZ PIPING):						
29				★ ○	★ ○	★ ○
30				★ ○	★ ○	★ ○
31				★ ○	★ ○	★ ○
WALL SUPPORTS (VERTICAL PIPING):						
32	★	★	★	★ ○	★ ○	★ ○
MOVING (VERTICAL & HORIZONTAL PIPING):						
34	APPLIES TO ALL PIPES					
35	TO STOP MOVEMENT					
GANG HANGERS (VERTICAL PIPING):						
36	★	★	★	★	★	★
GANG HANGERS (HORIZONTAL PIPING):						
37	★	★	★	★	★	★
GUIDES (VERTICAL & HORIZONTAL PIPING):						
38				★	★	★
39				★		
40					★	
41						★
42				★	★	★

ANG NO 25,30,31 & 33 USE 1/2" MOVEMENT OR MORE.

1 SHIELD 2 SADDLE 3 CLEVIS HANGERS FOR 6" PIPE AND BELOW.

4 SHIELD 5 SADDLE 6 CLEVIS ROLLER HANGERS FOR 6" PIPE AND BELOW.

7 SHIELD 8 SADDLE 9 TWO ROD ROLLER HANGERS FOR 8" PIPE AND ABOVE.

10 SHIELD 11 SADDLE 12 TWO ROD RIGID HANGERS FOR 8" PIPE AND ABOVE, CHANNEL BACK TO BACK FOR SIZE. SEE SPECIFICATIONS.

WELDED STEEL BRACKETS.

13 U-BOLT 360 SHIELD 14 U-BOLT SADDLE 15 U-BOLT SADDLE

16 SHIELD C.P. PIPE ROLL STAND 17 SHIELD C.P. PIPE ROLL STAND SADDLE 18 SHIELD C.P. PIPE ROLL STAND SADDLE TYPICAL WELDED STEEL BRACKET FOR USE WITH TYPES 1 THRU 9. ANGLE FRAME WITH FLAT BREAKING PLATE. 19

ADJ. C.I. PIPE ROLL STAND

20 SHIELD 21 SADDLE 22 BASE PIPE STANCHION SUPPORT. (SIZE PER SPECIFICATIONS) 26

ADJ. STANCHION SUPPORTS.

23 SHIELD 24 SADDLE 25 SINGLE BOLT RISER CLAMP (SEE SPECIFICATIONS FOR SAFE SIZE) 27

28 SPRING WITH DOUBLE BOLT RISER CLAMP (SEE SPECIFICATIONS FOR STOCK SIZE) VARIABLE SPRING 29 VARIABLE SPRING DOUBLE BOLT PIPE CLAMP. SINGLE ROD SPRING 30 VARIABLE SPRING DOUBLE BOLT RISER CLAMP STOCK SIZE PER SPECIFICATIONS DOUBLE ROD SPRING

DOUBLE BOLT RISER CLAMP STOCK SIZE PER SPECIFICATIONS WELDED STEEL BRACKET 32 U-BOLT SADDLE VARIABLE SPRING TRAPZE SPRING 31

DOUBLE BOLT RISER CLAMP STOCK SIZE PER SPECIFICATIONS 33 VARIABLE SPRING CONCRETE 34 SINGLE BOLT RISER CLAMP

CHANNEL BACK TO BACK FOR SIZE SEE SPECIFICATIONS. MULTI TWO ROD RIGID HANGER GANG HANGER 37 MULTI-J HOOK PLATE GANG HANGER 36 STRUCT. STEEL FRAME TO SUIT ANCHORS 35

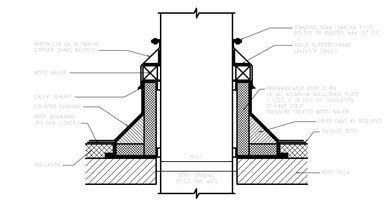
GUIDES

OPEN BAY NO SLEEVE IN FLOOR STEEL FRAME 38 360 ° SHIELD DO NOT USE TO GUIDE PIPE AT EXPANSION JOINT. SADDLES 39 DO NOT USE TO GUIDE PIPE AT EXPANSION JOINT. 40 PIPE THROUGH CONCRETE SLAB WITH SLEEVE 360 ° SHIELD SADDLES 41

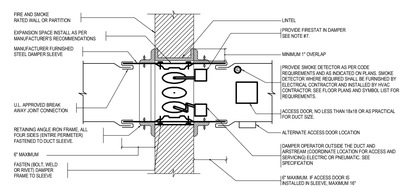
UPPER ATTACHMENTS

WELDED BEAM ATTACHMENT WELDED BEAM ATTACHMENT W/BAN CONCRETE REINFORCING HOLE FOR REINFORCEMENT INSERT CONTINUOUS SLOTTED INSERT SINGLE BOLT RISER CLAMPS STEEL BEAM CLAMP 42

PIPE HANGER & SUPPORT SCHEDULE



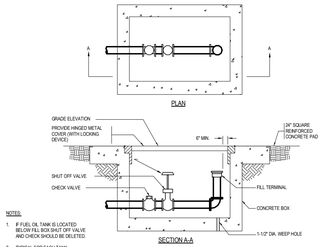
DUCT PENETRATION THROUGH ROOF



GENERAL NOTES:

1. DAMPER TO BE U.L. LABELED N.F.P.A. 90A, BSA AND MEA APPROVED.
2. N.F.P.A. APPROVED INSTALLATION DETAILS TO BE PART OF SUBMISSION OF COMBINATION FIRE & SMOKE DAMPER FOR APPROVAL, WHICH SHALL MEET N.F.P.A. STANDARD 90A AND SHALL BE BSA APPROVED.
3. DETAILS SHOWN ARE FOR COMBINATION FIRE AND SMOKE DAMPERS IN HORIZONTAL DUCTWORK. FOR DAMPERS IN VERTICAL DUCTWORK, DETAIL IS SIMILAR. VERTICAL DUCTS WITH HORIZONTAL DAMPERS ARE TO BE SPRING LOADED TYPE.
4. ACCESS DOOR IS SHOWN IN SIDE OF DUCT.
5. DETAIL FOR SMOKE DAMPER SHALL BE SIMILAR TO COMBINATION DAMPER EXCEPT DELETE FIRESTAT IN DAMPER.
6. THIS DETAIL IS A GUIDE ONLY. INSTALL DAMPER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND U.L. LISTING.
7. THE HVAC CONTRACTOR SHALL PROVIDE ALL DEVICES, RELAYS, END SWITCHES, D/P SWITCHES, CONTROL COMPONENTS, AIR PIPING, POWER WIRING, CONTROL WIRING AND INTERLOCK WIRING AS REQUIRED TO ACCOMPLISH THE SEQUENCE OF OPERATION FOR THESE DAMPERS.
8. RETAINING ANGLES MUST OVERLAP THE FIREWALL 1" MINIMUM AND COVER CORNERS OF OPENINGS.

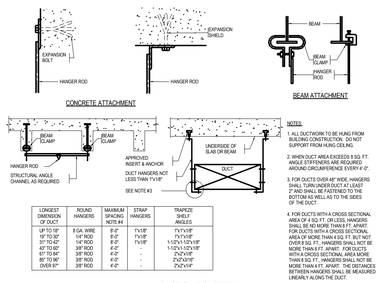
COMBINATION FIRE AND SMOKE DAMPER WITH FIRESTAT



NOTES:

1. IF FUEL OIL TANK IS LOCATED BELOW FILL BOX SHUT OFF VALVE AND CHECK SHOULD BE DELETED.
2. TYPICAL FOR EACH TANK.

FUEL FILL BOX

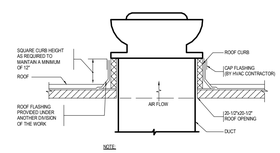


NOTES:

1. ALL DUCTWORK TO BE HUNG FROM BUILDING CONSTRUCTION. DO NOT SUPPORT FROM HUNG CEILING.
2. WHEN DUCT AREA EXCEEDS 8 SQ. FT. PROVIDE CROSSBREAKING AROUND CIRCUMFERENCE EVERY 4'-0".
3. FOR DUCTS OVER 48" WIDE, HANGERS SHALL TURN UNDER DUCT AT LEAST 1" AND SHALL BE FASTENED TO THE BOTTOM AS WELL AS TO THE SIDES OF THE DUCT.
4. FOR DUCTS WITH A CROSS SECTIONAL AREA OF 6 SQ. FT. OR MORE, HANGERS SHALL BE MITERED TWICE AT THE TOP FOR DUCTS WITH A CROSS SECTIONAL AREA OF MORE THAN 6 SQ. FT. BUT NOT OVER 8 SQ. FT., HANGERS SHALL NOT BE MORE THAN 6 FT. APART. FOR DUCTS WITH A CROSS SECTIONAL AREA MORE THAN 8 SQ. FT., HANGERS SHALL NOT BE MORE THAN 4 FT. APART. THE DISTANCES BETWEEN HANGERS SHALL BE MEASURED LINEARLY ALONG THE DUCT.

LONGEST DIMENSION OF DUCT	ROUND HANGERS	MAXIMUM SPACING NOTE #4	STRAP HANGERS	TRAPEZE SHELF ANGLES
UP TO 18"	8 GA. WIRE	8'-0"	1"x1/8"	1"x1"x1/8"
19" TO 30"	1/4" ROD	8'-0"	1"x1/8"	1"x1"x1/8"
31" TO 42"	1/4" ROD	8'-0"	1"x1/8"	1-1/2"x1-1/2"x1/8"
43" TO 60"	3/8" ROD	4'-0"	-	1-1/2"x1-1/2"x1/8"
61" TO 84"	3/8" ROD	4'-0"	-	2"x2"x1/8"
85" TO 96"	3/8" ROD	4'-0"	-	2"x2"x3/16"
OVER 97"	3/8" ROD	4'-0"	-	2"x3"x1/4"

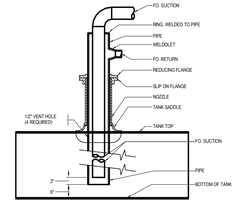
DUCT SUPPORT DETAIL



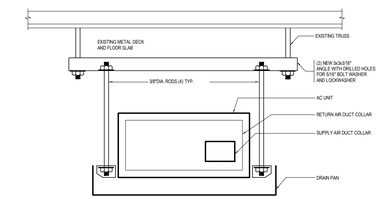
NOTE:

DUCT SHALL BE 1" SMALLER THAN ROOF OPENING. ROOF OPENING SHALL CONFORM TO CURB SIZE.

ROOF MOUNTED EXHAUST FAN DETAIL



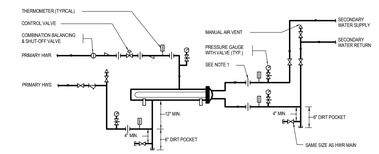
CONNECTIONS TO SUCTION AND RETURN BELL IN FUEL OIL TANK



NOTES:

1. PROVIDE DRAIN PAN UNDER AC UNIT. OVERFLOW DETECTOR ON DRAIN PAN SHALL SHUTDOWN UNIT IN OVERFLOW CONDITIONS.
2. MAKE PAN 5"/ LARGER THAN AC UNIT ON ALL FOUR (4) SIDES.
3. MAKE UPSTANDING SIDES 1 1/2" WITH 1/2" HEM TURNED DOWN OUTSIDE OF PAN.
4. USE 16 GA. GALV. WITH SOLDERED CORNERS FOR WATERTIGHTNESS.

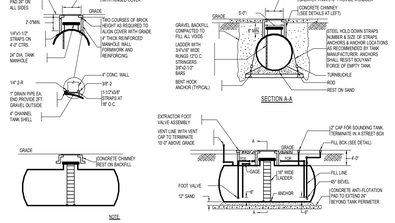
AC UNIT SUPPORT DETAIL



NOTE:

1. ALL PIPING SHALL BE ARRANGED TO ALLOW REMOVAL OF TUBE BUNDLE WITH MINIMUM DISTURBANCE TO PIPING.

WATER TO WATER/GLYCOL HEAT EXCHANGER PIPING



STEEL FUEL OIL STORAGE TANK

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Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
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08/06/2014	6	DOB FILING SET
03/03/2014	5	DOB FILING SET
01/31/2014	4	GUARANTEED MAXIMUM PRICE
01/10/2014	3	REVISED 80% PRICING SET
07/01/2013	2	PRICING SET
04/12/2013	1	100% DESIGN DEVELOPMENT
Date:	*No.:*	*Description:*

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:
MECHANICAL DETAILS (1 OF 2)

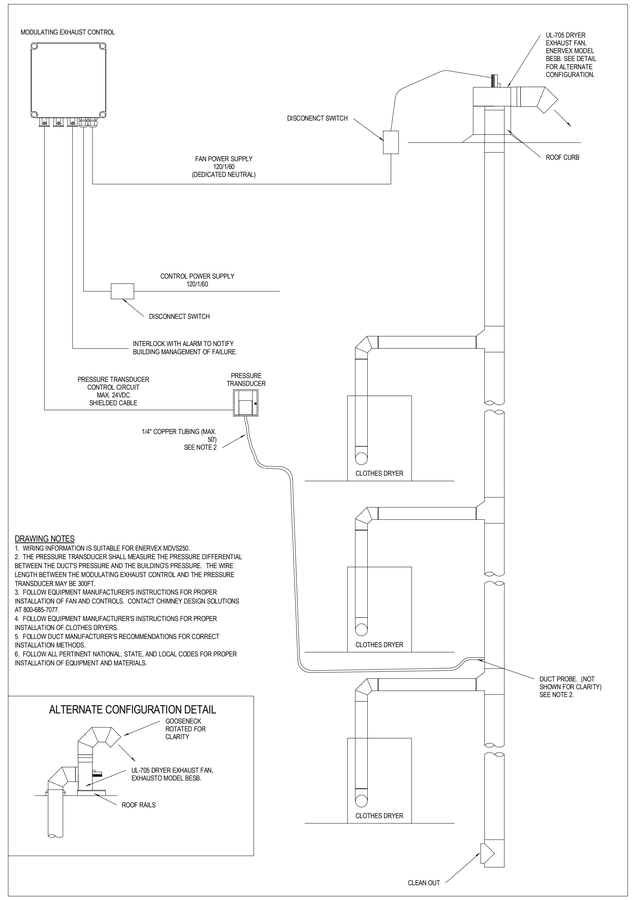
Project Number: Y120612-000	*Signature & Seal:*
Drawn By: CM	
Checked By: CM	
Scale: 12" = 1'-0"	

Sheet Number:
M-700.00

NYC DOB Number:	*Sheet:*
	32 of 33

8/13/2014 2:14:13 PM

Opp. Ex. 1001 Page 194 of 205



DRAWING NOTES

1. WIRING INFORMATION IS SUITABLE FOR ENERVEX MDVS250.
2. THE PRESSURE TRANSDUCER SHALL MEASURE THE PRESSURE DIFFERENTIAL BETWEEN THE DUCT'S PRESSURE AND THE BUILDING'S PRESSURE. THE WIRE LENGTH BETWEEN THE MODULATING EXHAUST CONTROL AND THE PRESSURE TRANSDUCER MAY BE 300FT.
3. FOLLOW EQUIPMENT MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION OF FAN AND CONTROLS. CONTACT CHIMNEY DESIGN SOLUTIONS AT 800-685-7077.
4. FOLLOW EQUIPMENT MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION OF CLOTHES DRYERS.
5. FOLLOW DUCT MANUFACTURER'S RECOMMENDATIONS FOR CORRECT INSTALLATION METHODS.
6. FOLLOW ALL PERTINENT NATIONAL, STATE, AND LOCAL CODES FOR PROPER INSTALLATION OF EQUIPMENT AND MATERIALS.

RESIDENTIAL DRYER EXHAUST SYSTEM
AND EXHAUST FAN DETAIL

DEPT OF BLDGS 121328919 Job Number
ES148809440 Scan Code

Platt Byard Dovell White
Architects, LLP

20 West 22nd Street
New York, NY 10010
212.691.2440
212.633.0144 fax
www.pbdw.com

Structural Engineer

Anastos Engineering Associates
240 West 35th Street
New York, NY 10001
212.714.0993
212.714.0997 fax

Mechanical Engineer

AKF
330 West 42nd Street, 14th Floor
New York, NY 10036
212.354.5656
212.354.5668 fax

GeoTechnical Engineer

RA Consultants LLC
47 Wilkens Drive
Dumont, NJ 07628
201.374.1794
201.374.1795 fax

Code Consultant

Design 2147
52 Diamond Street
Brooklyn, NY 11222
718.383.9340
718.383.8510 fax

Shauqat Shaikh
Buildings
APPROVED
Under Directive 2 of 1975
Date: 05/04/2015
NYC Development Hub

Date:	No.:	Description:
08/06/2014	5	DOB FILING SET
08/06/2014	6	DOB FILING SET
03/03/2014	3	DOB FILING SET
01/31/2014	2	GUARANTEED MAXIMUM PRICE
01/10/2014	1	REVISED 80% PRICING SET

Project:
8 West 70th St

8 West 70th Street
New York, NY 10023

Sheet Title:
MECHANICAL DETAILS (2 OF 2)

Project Number: Y120612-000
Drawn By: CM
Checked By: CM
Scale: 1/4" = 1'-0"
Signature & Seal:

Sheet Number:
M-701.00

NYC DOB Number:
Sheet: 33 of 33

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DEPT OF BLDGS 121328919 Job Number

ES865799774 Scan Code

GENERAL

1. THESE DRAWINGS MAY BE USED FOR CONSTRUCTION ONLY IF RA CONSULTANTS LLC IS THE SPECIAL INSPECTION AGENCY.

2. IF RA CONSULTANTS LLC HAS BEEN RELEASED OR WITHDRAWN IT'S RESPONSIBILITY FOR SPECIAL INSPECTIONS AND A FIRM OTHER THAN RA CONSULTANTS LLC IS ENGAGED BY THE OWNER, OWNER'S REPRESENTATIVE OR CONTRACTOR FOR SPECIAL INSPECTION OF THE DESIGN SHOWN ON THESE DRAWINGS, THEN WE REQUIRE THAT RA CONSULTANTS LLC BE RETAINED TO REVIEW THE INSPECTION AGENCY'S FIELD REPORTS AND FOR SITE VISITS BY OUR PERSONNEL DURING RELEVANT CONSTRUCTION ACTIVITIES.

3. ALL ELEVATIONS ARE REFERENCED TO BOROUGH PRESIDENT OF MANHATTAN DATUM - (BPMD) WHICH IS 2.750-FT ABOVE THE NATIONAL GEODETIC SURVEY VERTICAL DATUM OF 1929 (MEAN SEA LEVEL, SANDY HOOK, NEW JERSEY).

4. BASE PLANS AND SECTIONS ARE DEVELOPED FROM:
   - A. STRUCTURAL DRAWINGS BY PLATT BYARD DOVELL WHITE ARCHITECTS, LLP.
   - B. SURVEY DRAWING NEW YORK CITY LAND SURVEYORS, PC DATED FEBRUARY 15, 2013.
   - C. ROUTE NO. 78 SECTION NO. 1 CENTRAL PARK WEST STA. 1142 +45 TO STA 1147 +60 ROOF PLAN.
   - D. ROUTE NO. 78 SECTION NO. 72ND STREET STATION STA. 1147 +60 TO STA 1151 +45 SECTION A-A AND B-B.
   - E. PROFILE OF GRADE AND TRAIN ALIGNMENT CENTRAL PARK WEST
   - F. ROUTE NO. 78 SECTION NO. 72ND STREET STATION STA. 1147 +60 TO STA 1151 +45 ENTRANCE AT SW CORNER W. 70TH STREET STRUCTURAL DRAWINGS.

5. SOIL DATA OBTAINED FROM:
   - 5.1. GEOTECHNICAL ENGINEERING REPORT PREPARED BY RA CONSULTANTS LLC, REVISED DATE 11 OCTOBER 2012.

6. LOCATION OF EXISTING AND PROPOSED CONDITIONS INCLUDING BUT NOT LIMITED TO FOUNDATION WALL, FOOTINGS AND SLAB LOCATIONS AND ELEVATIONS WERE TAKEN FROM RA CONSULTANTS FIELD MEASUREMENTS, SURVEYS, AND STRUCTURAL DRAWINGS.

7. LOCATIONS AND ELEVATIONS OF ALL PROPOSED STRUCTURAL BUILDING ELEMENTS SHOWN ON THIS DRAWING MAY BE APPROXIMATE AND SHALL BE SUPERSEDED BY FINAL STRUCTURAL AND ARCHITECTURAL DRAWINGS.

8. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE UTILITIES AND BELOW GROUND STRUCTURES IN THE AREA OF PRIOR TO COMMENCEMENT OF WORK.

9. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS IN THE FIELD. IF CONDITIONS OBSERVED IN THE FIELD DIFFER FROM THESE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO EVALUATE THE CONDITION. MODIFICATIONS TO THESE DRAWINGS MAY BE NECESSARY.

10. THESE DRAWINGS DO NOT ADDRESS SAFETY ISSUES RELATED TO THE EXCAVATION AND SHORING WORK. OTHERS SHALL BE RESPONSIBLE FOR SITE SAFETY AND PROVIDE A SAFETY PLAN CONFORMING TO OSHA AND ALL APPLICABLE LAWS.

11. BARRIERS AND FENCING AROUND SITE MUST BE PROVIDED BY CONTRACTOR IN ACCORDANCE WITH NEW YORK CITY DEPARTMENT OF BUILDINGS AND ALL APPLICABLE LAWS.

12. IF THE CONDITIONS OBSERVED AS THE EXCAVATION ADVANCES ARE DIFFERENT THAN THE CONDITIONS SHOWN ON THE DESIGN DRAWINGS, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER.

13. OBSERVED MOVEMENTS OF THE SUPPORT OF EXCAVATION OR OTHER STRUCTURES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER.

14. LOOSE AREAS OF FOUNDATION WALL OR FOOTINGS THAT ARE DAMAGED OR LOOSE SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR EVALUATION AND REMEDIAL MEASURES.

15. PINS, WIRE MESH AND PARGING MAY BE REQUIRED TO STABILIZE THE FOUNDATION WALL, OR FOOTINGS.

16. THE DESIGNS ON THESE DRAWINGS ARE INTENDED FOR TEMPORARY SUPPORT OF EXCAVATION ONLY.

17. NOTIFY DOB 24- TO 48-HRS PRIOR TO EXCAVATION (RULE 52).

18. CONSENT FROM OWNERS OF ADJACENT PROPERTIES SHALL BE OBTAINED IF REQUIRED WORK EXTENDS BEYOND PROPERTY LINE.

19. SIDEWALK CLOSING FROM NYDOT IS REQUIRED TO OVERCUT THE SIDEWALK OR TO PLACE SOLDIER PILES IN THE SIDEWALK OR STREET.

20. LINE DRILL ROCK ADJACENT TO EXISITNG WALLS.

21. RA CONSULTANTS LLC SHALL INSPECT ROCK FACE PERIODICALLY DURING CONSTRUCTION TO DETERMINE IF ADDITIONAL ROCK FACE SUPPORT IS NEEDED.

SURVEY AND MONITORING

1. A PRE-CONSTRUCTION (PRE-CONDITION) SURVEY OF THE ADJACENT STRUCTURES SHALL BE DONE PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REVIEW AND FAMILIARIZE HIMSELF WITH THE RESULTS OF THE SURVEY. THE CONTRACTOR SHALL MAKE A VISUAL INSPECTION OF THE ADJACENT STRUCTURES (INSIDE AND OUT) PRIOR TO STARTING THE WORK.

2. MONITORING LOCATIONS ARE NOT SHOWN ON THE SUPPORT OF EXCAVATION PLAN FOR CLARITY.
   - 2.1. MONITOR THE ADJACENT BUILDINGS AT ABOUT 25-FT INTERVALS FOR VERTICAL AND LATERAL MOVEMENT.

3. BASELINE READINGS OF THE MONITORING POINTS SHALL BE OBTAINED PRIOR TO AND DURING EXCAVATION AND NEW CONSTRUCTION.

4. PERFORM OPTICAL SURVEYS AT LEAST TWICE PER WEEK. IF MOVEMENTS OCCUR, INCREASE THE FREQUENCY OF THE READINGS AS DIRECTED BY THE ENGINEER.

5. NON-LANDMARK BUILDING MOVEMENT AND VIBRATION CRITERIA:
   - 5.1. IF THE VERTICAL OR LATERAL BUILDING MOVEMENT REACHES 1/4-INCH IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER.
   - 5.2. IF THE BUILDING MOVEMENT REACHES 1/2-INCH, IMMEDIATELY INFORM THE CONSTRUCTION MANAGER AND ENGINEER AND STOP WORK. THE WORK SHALL RESUME UPON APPROVAL BY THE CONSTRUCTION MANAGER AND APPROVED REMEDIAL MEASURES AND/OR MODIFIED CONSTRUCTION PROCEDURES BY THE ENGINEER.
   - 5.3. IF THE VIBRATIONS REACH 1-INCHES PER SECOND (IPS) THE CONSTRUCTION MANAGER AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
   - 5.4. IF THE VIBRATIONS EXCEED 2-IPS, IMMEDIATELY INFORM THE CONSTRUCTION MANAGER AND ENGINEER AND STOP WORK. THE WORK SHALL RESUME UPON APPROVAL BY THE CONSTRUCTION MANAGER AND APPROVED REMEDIAL MEASURES AND/OR MODIFIED CONSTRUCTION PROCEDURES BY THE ENGINEER.

6. VIBRATION MONITORS SHALL TAKE REAL TIME READINGS.

7. ALL MONITORING DATA SHALL BE PRESENTED TO THE CONSTRUCTION MANAGER AND ENGINEER AT THE END OF EACH DAY.

SOLDIER PILE AND LAGGING (DRILLED IN PILES)

1. SOLDIER PILE CASING SHALL BE INSTALLED USING INTERNAL FLUSH DUPLEX DRILLING METHOD. CONTRACTOR SHALL ADJUST DRILLING PROCEDURE AS REQUIRED TO PREVENT LOSS OF GROUND, SETTLEMENT AND/OR LATERAL MOVEMENT OF BUILDINGS, UTILITIES, AND OTHER STRUCTURES. USE OF COMPRESSED AIR WILL NOT BE ALLOWED.

2. NO LOSS OF MATERIAL FROM THE OUTSIDE OF THE SOLDIER PILE WILL BE PERMITTED. THE CONTRACTOR SHALL ADOPT THE NECESSARY DRILLING PROCEDURES TO PREVENT LOSS OF MATERIAL FROM AROUND THE OUTSIDE OF THE SOLDIER PILE.

3. STEEL CASING SHALL HAVE A MINIMUM WALL THICKNESS OF 0.50-INCHES. SPLICES IN THE CASING SHALL BE THREADED AND FULLY WELDED.

4. THE BOTTOM OF EACH DRILLED SOLDIER PILE SHALL BE PROTECTED BY A HIGH-STRENGTH CUTTING SHOE WITH HARDENED CUTTING EDGE.

5. NO CONCRETE OR GROUT SHALL BE PLACED AT ANY SOLDIER PILE LOCATION UNTIL TIP ELEVATION HAS BEEN CONFIRMED, CLEANED OF MUD AND ANY EXTRANEOUS MATERIAL, AND INSPECTED AND APPROVED BY THE ENGINEER.

6. CONCRETE OR GROUT SHALL BE PLACED CONTINUOUSLY FOR THE FULL DEPTH OF THE SOLDIER PILE STARTING AT THE BOTTOM OF THE ROCK SOCKET AND UP TO THE DESIGNATED CUTOFF ELEVATION. NO COLD JOINT IS ALLOWED.

7. FINAL DETERMINATION OF THE ELEVATION OF THE SOLDIER PILE TIP WILL BE DETERMINED BY THE ENGINEER.

8. THE ENGINEER MAY DIRECT AN INCREASE IN SOLDIER PILE DEPTH FROM THAT SPECIFIED HEREIN OR AS SHOWN ON THE DRAWINGS IF INFERIOR SOIL IS ENCOUNTERED ABOVE THE ORIGINAL MINIMUM TIP ELEVATION.

9. NO SOLDIER PILE SHALL BE OUT OF PLUMB MORE THAN ONE PERCENT (1%) OF ITS EMBEDDED LENGTH.

10. IF ANY OF THE ABOVE TOLERANCES ARE EXCEEDED AND IN THE OPINION OF THE ENGINEER REQUIRE CORRECTIVE MEASURES, SUCH CORRECTIVE MEASURES, INCLUDING COSTS OF ENGINEERING AND REDESIGN, SHALL BE PAID FOR BY THE CONTRACTOR.

11. BEFORE BRACING IS INSTALLED, MAXIMUM EXCAVATION BELOW BRACING LEVEL, IS 2-FT FOR RAKERS UNLESS NOTED ON DRAWING.

12. LAGGING SHALL BE INSTALLED AS THE EXCAVATION ADVANCES WITH A MAXIMUM DEPTH OF 2-FT PRIOR TO LAGGING.

13. IF MATERIAL BEHIND LAGGING HAS BEEN LOST OR DISTURBED, LEAVE A 1- TO 1-1/2 INCH SPACE BETWEEN LAGGING BOARDS TO IMMEDIATELY BACKFILL OR GROUT.

14. HAY OR FILTER FABRIC SHALL BE USED TO MINIMIZE MIGRATION OF FINES INTO THE EXCAVATION.

15. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.1 USING E-70 ELECTRODES.

16. ALL STRUCTURAL STEEL SHALL BE GRADE 50, ASTM A-572 UNLESS OTHERWISE NOTED.

17. MISCELLANEOUS STEEL (PLATES AND WEDGES) SHALL BE ASTM A36 UNLESS OTHERWISE NOTED.

CONCRETE MATERIALS, PLACEMENT, & TESTING

1. CONCRETE FOR SUPPORT OF EXCAVATION SHALL BE NORMAL WEIGHT WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. CONCRETE SHALL BE IN CONFORMANCE WITH NEW YORK CITY BUILDING CODE, CHAPTER 19.

2. CONTRACTOR SHALL SUBMIT A CONCRETE MIX DESIGN TO THE ENGINEER OF RECORD FOR REVIEW.

3. THE OWNER/CONSTRUCTION MANAGER SHALL RETAIN THE SERVICES OF AN INDEPENDENT TESTING LABORATORY/COMPANY.

4. CONCRETE PLACEMENT TIME SHALL NOT EXCEED 2-HOURS OR AS RECOMMENDED BY THE TESTING COMPANY.

5. CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH SECTION 1905 OF THE NEW YORK CITY BUILDING CODE.
   - 5.1. JOB-MIXED CONCRETE SHALL COMPLY WITH ACI 318, SECTION 5.8.3 PER NEW YORK CITY BUILDING CODE SECTION 1905.8.3.
   - 5.2. IF READY MIXED CONCRETE IS USED, IT SHALL COMPLY WITH ASTM C94 OR ASTM C685 PER SECTION 1905.8.2 OF THE NEW YORK CITY BUILDING CODE.

6. MAKE A SET OF 5 (MINIMUM) CYLINDERS EACH DAY GROUT IS BEING PLACED FOR SOLDIER PILES.

7. PERFORM COMPRESSION TEST ON 1 CYLINDER AT 7 DAYS AND 1 AT 14 DAYS. IF THE DESIGN STRENGTH IS ACHIEVED AT 14 DAYS, NO FURTHER TESTING IS REQUIRED. OTHERWISE TEST ONE OR TWO CYLINDERS, DEPENDING IF THE DESIGN STRENGTH IS ACHIEVED AT 28 DAYS. ONE OR TWO SAMPLES SHALL BE SAVED FOR 56 DAY TESTING IF THE PREVIOUS CYLINDERS FAIL TO MEET DESIGN STRENGTH REQUIREMENTS.

8. PROVIDE TESTING RESULTS TO THE CONSTRUCTION MANAGER AND/OR OWNER.

9. IF THE DESIGN STRENGTH REQUIREMENTS ARE NOT MET, THE CONTRACTOR SHALL PERFORM REMEDIATION AS DIRECTED BY THE CONSTRUCTION MANAGER, AT NO ADDITIONAL COST TO THE OWNER.

SPECIAL INSPECTIONS

1. A SPECIAL INSPECTOR AND/OR SPECIAL INSPECTION AGENCY SHALL HAVE RESPONSIBILITIES AS SET FORTH IN CHAPTER 17 OF THE NEW YORK CITY BUILDING CODE AND ELSEWHERE IN THE CODES WHERE SPECIAL INSPECTIONS ARE REQUIRED. THE RESPONSIBILITIES OF THE SPECIAL INSPECTOR OR SPECIAL INSPECTION AGENCY AT A SPECIAL INSPECTION SHALL INCLUDE THOSE TASKS AND STANDARDS SET FORTH IN CHAPTER 17 OF THE CODE, THE REFERENCE STANDARDS AND ELSEWHERE IN THE CODE, THIS RULE OR ANY RULE OF ANY AGENCY IN CONNECTION WITH THE WORK THAT IS THE SUBJECT OF SUCH SPECIAL INSPECTION.

2. NECESSARY SPECIAL INSPECTIONS
   - A. EXCAVATION - SHEETING, SHORING, AND BRACING.
   - B. STRUCTURAL SAFETY - STRUCTURAL STABILITY.
   - C. CONCRETE - CAST-IN-PLACE.
   - D. CONCRETE - TEST CYLINDERS.
   - E. CONCRETE - DESIGN MIX.
   - F. SOIL - SITE PREPARATION
   - G. SOIL - INVESTIGATION (BORINGS/TEST PITS).
   - H. UNDERPINNING.

LIST OF DRAWINGS:

1 OF 10	SOE-001	SUPPORT OF EXCAVATION NOTES
2 OF 10	SOE-002	NYCT NOTES
3 OF 10	SOE-100	SUPPORT OF EXCAVATION PLAN
4 OF 10	SOE-101	SUPPORT OF EXCAVATION PART PLAN
5 OF 10	SOE-200	SUPPORT OF EXCAVATION SECTIONS
6 OF 10	SOE-201	SUPPORT OF EXCAVATION SECTIONS
7 OF 10	SOE-202	SUPPORT OF EXCAVATION SECTIONS
8 OF 10	SOE-203	SUPPORT OF EXCAVATION SECTIONS
9 OF 10	SOE-300	SUPPORT OF EXCAVATION DETAILS
10 OF 10	SOE-301	SUPPORT OF EXCAVATION DETAILS



SOURCE: OASISNYC.NET

Shauqat
Buildings
APPRO
Under Directi
Date: 05/04/2
NYC Develop

REV.	DATE	DETAILS

PROJECT

8 WEST 70TH STREET
NEW YORK, NY

TITLE

SUPPORT OF EXCAVATION NOTES

RA CONSULTANTS LLC
Geotechnical Engineering
47 WILKENS DRIVE, DUMONT, NJ 07628
[T] 201.374.1794 [F] 201.374.1795
WWW.RACLLC.COM

SEAL AND SIGNATURE



DATE:	9/19/2013
PROJ. NO.:	12C1110
DRAWN BY:	ER / JJC
CHECKED BY:	WJP
DRAWING:	SOE-001.00
SHEET:	1 OF 10

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RA CONSULTANTS LLC

Job Number 1320819 Set Name SOE Submittal 12/5/2013
ES4980049202 Scan Code

NYC TRANSIT GENERAL NOTES

1. THE NYC TRANSIT (NYCT) RESERVES THE RIGHT TO PLACE INSPECTORS, FLAGMEN OR OTHER PERSONNEL IN THE SUBWAY STRUCTURES DURING CONSTRUCTION OF THE PROJECT LINKED BY A TELEPHONE SYSTEM, IF DEEMED NECESSARY, TO OBSERVE THE EFFECTS OF THE CONSTRUCTION ON THE TRANSIT FACILITIES. IT IS EXPECTED THAT SUCH PERSONNEL WILL BE NECESSARY WHEN THE CONSTRUCTION COMES WITHIN TWENTY-FIVE FEET OF THE SUBWAY STRUCTURE. HOWEVER, NYCT FURTHER RESERVES THE RIGHT TO PLACE SUCH PERSONNEL WHENEVER, IN ITS OPINION, THE PROJECT CONDITIONS WARRANT SUCH PLACEMENT, REGARDLESS OF DISTANCE. THE COST OF SUCH PERSONNEL, TELEPHONE INSTALLATION AND ANY RE-ROUTES, DIVERSIONS OF SERVICE, WORK TRAINS, ETC., MADE NECESSARY BY THE PROJECT, MUST BE BORNE BY THE PROJECT OR THE RESPONSIBLE NEW YORK CITY/STATE AGENCY.
2. ALL ROCK EXCAVATION ADJACENT TO THE TRANSIT STRUCTURE IS TO BE CHANNEL DRILLED TWO FEET BELOW SUBGRADE.
3. IF TOP OF ROCK IS FOUND BELOW SUBWAY STRUCTURE, THE SUBWAY STRUCTURE MUST BE UNDERPINNED IN ACCORDANCE WITH DRAWINGS TO BE SUBMITTED TO NYCT FOR APPROVAL.
4. IF ROCK IS SOFT OR SEAMY, LATERAL SUPPORTS MUST BE PROVIDED BELOW THE SUBWAY STRUCTURE IN ACCORDANCE WITH DRAWINGS TO BE SUBMITTED TO NYCT FOR APPROVAL.
5. BLASTING WILL BE PERMITTED ONLY WITH LIGHT CHARGES SUBJECT TO THE APPROVAL OF NYCT'S ENGINEER AND IN ACCORDANCE WITH THE REGULATIONS OF THE FIRE DEPARTMENT. THE CONTRACTOR SHALL PROVIDE A DETAILED MONITORING PLAN, PROVIDING FOR MEASUREMENTS OF BOTH PARTICLE VELOCITY AND DISPLACEMENTS AT CRITICAL LOCATIONS OF THE NYCT STRUCTURE. THE MONITORING PLAN SHALL INCLUDE THRESHOLD AND UPSET LEVELS OF BOTH PARTICLE VELOCITY AND SETTLEMENT TOGETHER WITH AN ACTION PLAN FOR THEIR IMPLEMENTATION. THE CONTRACTOR SHALL SECURE AN APPROVED SEISMOLOGIST TO INSTALL AND OPERATE SUITABLE VELOCITY GAUGES TO CONTINUOUSLY MONITOR PARTICLE VELOCITY AND AN INDEPENDENT LICENSED SURVEYOR TO MONITOR DISPLACEMENTS. THE THRESHOLD MAXIMUM PARTICLE VELOCITY ABOVE AMBIENT CAUSED BY THE BLASTING WILL BE 0.5 INCH PER SECOND. VALUES EXCEEDING THIS LEVEL WILL BE REVIEWED AND EVALUATED BY NYCT'S ENGINEER. IN NO CASE WILL PARTICLE VELOCITIES EXCEED THE UPSET LEVEL OF 2.0 INCHES PER SECOND.
6. BEFORE PLACING CONCRETE, THE SUBGRADE OF THE FOUNDATIONS IN THE VICINITY OF THE SUBWAY STRUCTURE IS TO BE INSPECTED AND APPROVED BY NYCT'S ENGINEER.
7. IF ANY PORTION OF THE SUBWAY STRUCTURE OR FINISH IS DAMAGED, IT SHALL BE REPAIRED OR REPLACED WITH THE SAME MATERIALS IN PLACE, SUBJECT TO THE APPROVAL OF NYCT'S ENGINEER AND AT THE EXPENSE OF THE PROJECT.
8. EXCAVATION EMBANKMENTS ARE TO BE SHORED AND BRACED. DRAWINGS INDICATING A SUGGESTED METHOD OF CONSTRUCTION ARE TO BE SUBMITTED TO NYCT FOR APPROVAL IN CONJUNCTION WITH THE PROJECT'S CONTRACT DRAWINGS. IN CASE OF EXCAVATION UNDERMINING THE SUBWAY STRUCTURE, UNDERPINNING MAY BE REQUIRED. DRAWINGS FOR UNDERPINNING ARE TO BE SUBMITTED TO NYCT FOR APPROVAL.
9. TEMPORARY SHORING MAY BE PLACED IN DIRECT CONTACT WITH NYCT STRUCTURES ONLY IF THE NYCT STRUCTURE IS SHOWN TO BE ABLE TO SUPPORT ALL ANTICIPATED LOADS THAT CAN BE TRANSFERRED THROUGH THE TEMPORARY STRUCTURES WITHOUT DAMAGING THE EXISTING STRUCTURE. AT THE COMPLETION OF THE PROJECT, THESE TEMPORARY SHORING AND BRACING SYSTEMS ARE TO BE REMOVED OR CUT-OFF AS APPROVED BY NYCT.
10. WHEN PILES ARE TO BE DRIVEN ADJACENT TO THE SUBWAY STRUCTURE, BORING DATA, PILE LAYOUTS, SPECIFICATIONS AND INSTALLATION PROCEDURES ARE TO BE SUBMITTED TO NYCT FOR APPROVAL. VELOCITY METERS ARE TO BE INSTALLED IN THE SUBWAY TUNNEL AT CRITICAL LOCATIONS TO MONITOR INDUCED VIBRATIONS. INDUCED DISPLACEMENTS ALONG THE TUNNEL STRUCTURE AND TRACK INVERT ARE TO BE MONITORED DURING DRIVING. THE THRESHOLD MAXIMUM PARTICLE VELOCITY ABOVE AMBIENT CAUSED BY THE DRIVING WILL BE 0.5 INCH PER SECOND. VALUES EXCEEDING THIS LEVEL WILL BE REVIEWED AND EVALUATED BY NYCT'S ENGINEER. IN NO CASE WILL PARTICLE VELOCITIES EXCEED THE UPSET LEVEL OF 2.0 INCHES PER SECOND.
11. NO PILES ARE PERMITTED TO BE INSTALLED BY ANY METHOD WITHIN THREE FEET OF SUBWAY STRUCTURE, MEASURED FROM THE EDGE OF THE PILE OR CASING TO THE WALL. CLOSED-END PILES WILL NOT BE PERMITTED TO BE DRIVEN WITHIN TEN FEET OF THE SUBWAY STRUCTURE.
12. ALL PILES ARE TO BE PLACED WITHIN A PREAUGERED CASED HOLE TO THE INFLUENCE LINE. THE CASING SHALL BE CLEANED WITHOUT DISTURBING THE SOIL OUTSIDE THE CASING AND THE PILE TO BE PLACED WITHIN THE CASING FOR INSTALLATION. THE PILES MAY THEN BE DRIVEN BEYOND THE INFLUENCE LINE WITHIN THE CASING.
13. THE INFLUENCE LINE SHALL START AT THE BOTTOM OF THE SUBWAY STRUCTURE AND EXTEND AT A 1:1 SLOPE. FOR PILES INSTALLED WITHIN TEN FEET OF THE SUBWAY STRUCTURE, THE CASING SHALL BE EXTENDED UP TO THE BOTTOM OF THE SUBWAY STRUCTURE.
14. AT THE COMPLETION OF PILE INSTALLATION, THE SPACE BETWEEN THE PILE AND THE CASING IS TO BE FILLED WITH EITHER CLEAN SAND OR GROUT. IF THE CASING IS TO BE REMOVED, THE FILLING MUST BE COMPLETED PRIOR TO REMOVAL OF THE CASING.
15. ALL PILES ARE TO BE DRIVEN A MINIMUM OF TEN FEET BELOW THE INTERSECTION OF THE PILE CENTERLINE AND THE INFLUENCE LINE OF THE SUBWAY STRUCTURE.
16. THE USE OF 'DOWN-THE-HOLE -HAMMERS' FOR INSTALLATION OF PILES THROUGH OVERBURDEN AND FILL WILL BE PERMITTED ONLY TO REMOVE BOULDERS. IT WILL NOT BE PERMITTED AS A MATTER OF COURSE TO ADVANCE THE HOLE. THEIR USE TO CONSTRUCT ROCK SOCKETS WILL NOT BE ALLOWED WITHIN 5 FEET OF THE NYCT STRUCTURE.
17. VIBRATORY HAMMERS WILL NOT BE PERMITTED WITHIN 75 FEET OF SUBWAY STRUCTURES. HOERAMS WILL NOT BE PERMITTED WITHIN 25 FEET OF SUBWAY STRUCTURES.
18. DYNAMIC COMPACTION METHODS USING DROPPED HEAVY WEIGHTS CANNOT BE CONDUCTED WITHIN 1000 FEET OF ANY NYCT STRUCTURE UNLESS IT IS SHOWN THAT INDUCED SETTLEMENTS AND VIBRATIONS WILL NOT DAMAGE THESE STRUCTURES. A SUITABLE MONITORING PLAN INCLUDING SETTLEMENT AND VIBRATION MEASUREMENTS MUST BE APPROVED BY NYCT'S ENGINEER FOR ALL SUCH OPERATIONS WITHIN THESE DISTANCES.
19. THERE SHALL BE NO MACHINE EXCAVATION WITHIN 3 FEET OF NYCT STRUCTURES, POWER DUCT LINES, OR ANY OTHER FACILITIES UNTIL THEY HAVE BEEN CAREFULLY EXPOSED BY HAND EXCAVATION.
20. ALL DEWATERING OPERATIONS CONDUCTED WITHIN 500 FEET OF THE NYCT STRUCTURE MUST BE PERFORMED IN ACCORDANCE WITH DRAWINGS AND PROCEDURES SUBMITTED TO NYCT FOR APPROVAL. THE DISTANCE FROM THE STRUCTURE TO THE DEWATERING OPERATION CAN BE REDUCED PROVIDED THAT SOIL CONDITIONS AT THE SITE INDICATE THAT THE RADIUS OF INFLUENCE OF THE DEWATERING IS LESS THAN 500 FEET. FOR DEWATERING WITHIN THE RADIUS OF INFLUENCE, THE DEWATERING PROGRAM MUST BE SHOWN TO HAVE NEGLIGIBLE INFLUENCE ON SETTLEMENTS OF THE NYCT STRUCTURE.
21. SUBWAY ENTRANCES (VENTILATORS, ETC.) ARE TO BE UNDERPINNED OR SHORED AND BRACED IF DIRECTED BY NYCT'S ENGINEER.
22. NYCT, AT ITS DISCRETION, RESERVES THE RIGHT TO REQUIRE THE PROJECT TO CLOSE OR MAINTAIN AND PROTECT EXISTING SUBWAY ENTRANCES, VENTILATORS, ETC. ADJACENT TO THE PROJECT DURING CONSTRUCTION. SUCH CONSTRUCTION MAY INCLUDE UNDERPINNING, SHORING, BRACING AND ERECTION OF SUITABLE BARRICADES AND/OR CANOPIES AND SHIELDS. SUCH PROTECTION SHALL BE IN ACCORDANCE WITH DRAWINGS SUBMITTED TO NYCT FOR APPROVAL.
23. IF SHIELDS ARE TO BE INSTALLED TO PROTECT NYCT FACILITIES AND/OR THE PUBLIC, PLANS SHOWING THE LOCATION, TYPE AND METHOD OF ATTACHMENT TO THE TRANSIT STRUCTURE MUST BE SUBMITTED TO NYCT FOR APPROVAL.
24. ALL LUMBER AND PLYWOOD USED FOR PROTECTION OF SUBWAY FACILITIES MUST BE FIRE RETARDANT.
25. SUBWAY EMERGENCY EXITS MUST BE KEPT CLEAR AT ALL TIMES.
26. IN EXCAVATING OVER OR NEAR THE SUBWAY ROOF, SPECIAL CARE SHALL BE EXERCISED SO THAT THE THIN CONCRETE PROTECTION OF THE SUBWAY WATERPROOFING IS NOT DAMAGED.
27. BURNING OF, WELDING TO OR DRILLING THROUGH EXISTING STEEL STRUCTURES WILL NOT BE PERMITTED EXCEPT AS SHOWN ON DRAWINGS APPROVED BY NYCT.
28. HORIZONTAL AND VERTICAL CONTROL SURVEY DATA OF THE EXISTING NYCT STRUCTURE IS TO BE TAKEN BY A LICENSED LAND SURVEYOR TO MONITOR ANY MOVEMENTS DURING CONSTRUCTION AND TO SHOW THAT THE INDUCED MOVEMENTS ARE WITHIN ALLOWABLES PROVIDED AND APPROVED BY NYCT'S ENGINEER. IF ANY MOVEMENTS EXCEED ALLOWABLES, REMEDIATION AS APPROVED BY NYCT SHALL BE PERFORMED.
29. BUS ROUTES AFFECTED BY THE PROJECT WILL OR MAY REQUIRE BUS DIVERSIONS. THESE ARRANGEMENTS SHALL BE MADE THROUGH:

MS. SARAH WYSS
ACTING DIRECTOR, OPERATIONS PLANNING
NEW YORK CITY TRANSIT
2 BROADWAY, ROOM A17.82
NEW YORK, NEW YORK 10004
TELEPHONE NUMBER 646/252-5517

WHEN IMPACTING ANY BUS STOP, SPECIAL OPERATIONS MUST BE NOTIFIED TWO WEEKS IN ADVANCE.

30. DUCT LINES MUST BE MAINTAINED AND PROTECTED DURING CONSTRUCTION. ANY INTERFERENCE WITH DUCT LINES SHOULD BE REPORTED TO NYCT INSPECTOR. WHEN A DUCT LINE CONTAINING CABLES IS TO BE REMOVED, OR WHEN MASONRY ADJACENT THERETO IS TO BE REMOVED, PENETRATED, OR DRILLED, THE WORK SHALL BE DONE WITH HAND LABOR ENTIRELY, USING HAMMER AND CHISEL. JACKHAMMERS, BULL POINTS OR OTHER POWER EQUIPMENT SHALL NOT BE USED.
31. WHERE MANHOLES ARE ENCOUNTERED:
    a) THEY SHALL BE PROTECTED AND RAISED OR LOWERED AS REQUIRED, TO MATCH THE NEW STREET GRADE.
    b) IF MANHOLE COVERS ARE RAISED OR LOWERED, PROTECT CABLES IN MANHOLE BY WOOD SHEETING OF 2" NOMINAL THICKNESS.
    c) PRIOR TO THE START OF CONSTRUCTION OPERATIONS AFFECTING MANHOLES AND DUCT LINES, SEVEN DAYS NOTICE MUST BE GIVEN TO MR. JOHN MALVASIO, P.E., DIRECTOR, DEPARTMENT OF MAINTENANCE OF WAY, AT 718/694-1358.
32. CONSTRUCTION WORK DONE NEAR VENT GRATINGS AND HATCHES SHALL BE AS FOLLOWS:
    a) UNLESS APPROVED BY THE NYCT'S ENGINEER, ALL VENT GRATINGS AND HATCHES SHOULD REMAIN OUTSIDE THE CONSTRUCTION SITE, SEPARATED BY A CONSTRUCTION FENCE. PROTECTIVE SHIELDS MUST BE PROVIDED OVER VENT GRATINGS AS REQUIRED BY NYCT'S ENGINEER.
    b) NO BUILDING MATERIAL, VEHICLES OR CONSTRUCTION EQUIPMENT IS TO BE STORED OR RUN OVER VENT, GRATINGS, HATCHES OR EMERGENCY EXITS.
    c) DETAILS OF SIDEWALK RECONSTRUCTION AROUND VENT GRATINGS, HATCHES AND EMERGENCY EXITS ARE TO BE SUBMITTED TO NYCT FOR APPROVAL.
33. TRACTORS, CRANES, EXCAVATORS, ETC. USED IN THE VICINITY OF THE ELEVATED STRUCTURES SHALL BE ISOLATED FROM THE GROUND. SINCE THE ELEVATED STRUCTURE IS USED AS A NEGATIVE RETURN PATH, WITH A CONSEQUENT POTENTIAL BETWEEN IT AND THE GROUND, ANY CONTACT BETWEEN THE STRUCTURE AND GROUNDED EQUIPMENT COULD RESULT IN BURNING OF THE STEEL.
34. TEMPORARY CONSTRUCTION SHEDS, BARRICADES OR PLYWOOD PARTITIONS MUST BE A MINIMUM OF 5'-0" FROM EDGE OF FINISHED PLATFORM.
35. STATION AREAS OR STAIRWAY/CLOSINGS: THE GENERAL REQUIREMENTS FOR STATION AREAS OR STAIRWAY/CLOSINGS ARE AS FOLLOWS:
    a) ONLY ONE STAIRWAY AT EACH STATION WILL BE PERMITTED TO BE CLOSED AT THE SAME TIME. APPROVALS FOR CLOSING ANY STAIRWAY MUST BE OBTAINED FROM THE DIVISION OF STATION OPERATIONS AT LEAST THREE WEEKS IN ADVANCE.
    b) MR. ASHOK PATEL, DIRECTOR, OFFICE OF STATION PROGRAMS; TELEPHONE 718/694-1695 OF THE DIVISION OF STATIONS MUST BE NOTIFIED ONE WEEK PRIOR TO THE ACTUAL CLOSING AND REOPENING OF THE ENTRANCE.
    c) AMPLE SIGNAGE MUST BE SUPPLIED AND POSTED AT LEAST ONE WEEK IN ADVANCE, ADVISING THE PUBLIC OF THE PROPOSED SUBWAY STAIR CLOSING.
    d) THE STREET ENTRANCE STAIRWAY SHOULD NOT BE CLOSED UNLESS MANPOWER AND MATERIALS ARE AVAILABLE TO COMMENCE WORK ON DATES PERMITTED.
    e) ONCE THE CLOSING IS EFFECTED, CONSTRUCTION SIGNS MUST BE PLACED AT APPROPRIATE LOCATIONS ON THE BARRICADES AT THE STREET AND MEZZANINE LEVELS, STATING THE CONTRACTOR'S NAME, 24 HOUR EMERGENCY TELEPHONE NUMBER, CONTRACT NUMBER, THE DURATION OF THE CLOSING, DIRECTION TO AN ALTERNATE ENTRANCE/EXIT, AND AN APOLOGY FOR THE INCONVENIENCE TO OUR CUSTOMERS.
    f) EXISTING STATION SIGNAGE MUST BE ADJUSTED TO REFLECT ANY CHANGES IN ACCESS/EGRESS.
    g) BARRICADES ARE TO BE PAINTED AND KEPT GRAFFITI FREE AT ALL TIMES. THE CONTRACTOR MUST MAINTAIN THE BARRICADED AREA CLEAN OF ALL DEBRIS.
    h) ALL MATERIALS ARE TO BE PROPERLY STORED AND SECURED AWAY FROM PASSENGER TRAFFIC.
    i) THE CONTRACTOR MUST REMOVE ALL WASTE MATERIAL AND BARRICADES FROM ALL STATION AREAS WHEN CONSTRUCTION IS COMPLETED.
    j) INSPECTION OF THE AREA UNDER CONSTRUCTION BY AUTHORIZED STATION DEPARTMENT EMPLOYEES SHALL NOT BE INHIBITED.
    k) IF STREETLIGHTS ON THE SIDEWALKS ARE AFFECTED, TEMPORARY LIGHTS SHALL BE PROVIDED.
36. IF NEW CONCRETE CONSTRUCTION IS JOINED TO EXISTING CONCRETE, DOWELS AND KEYWAYS ARE TO BE USED IN ACCORDANCE WITH NYCT STANDARDS.
37. IF THE PROJECT INVOLVES CONSTRUCTION OR ALTERATION OF A SUBWAY FACILITY ON PRIVATE PROPERTY, THE PROPERTY OWNERS WILL BE REQUIRED TO ENTER INTO AN AGREEMENT WITH NYCT PERTAINING TO ALL WORK AFFECTING THE TRANSIT FACILITIES AND CLEARLY DEFINING LIMITS AND RESPONSIBILITY FOR MAINTENANCE AND LIABILITY.
38. WHEREVER A NEW SIDEWALK IS BEING PLACED ADJACENT TO NYCT STRUCTURES THE FOLLOWING WILL BE REQUIRED:
    a) THE TOP OF THE NEW SIDEWALK SHALL BE FLUSH WITH THE SUBWAY VENT GRATINGS, HATCHES AND EMERGENCY EXITS.
    b) THE SLOPE OF THE NEW SIDEWALK SHALL BE SUCH THAT THE DRAINAGE BE AWAY FROM THESE STRUCTURES.
    c) A 1/2" PREMOLDED FILLER SHALL BE INSTALLED BETWEEN THE NEW SIDEWALK AND NYCT STRUCTURE.
    d) WHERE SIDEWALK ELEVATIONS ARE BEING CHANGED DETAILS OF PROPOSED WORK AROUND NYCT STRUCTURES ARE TO BE SUBMITTED FOR APPROVAL.
39. BEFORE THE START OF ANY WORK, THE CONTRACTOR SHALL MAKE AN EXAMINATION, IN THE PRESENCE OF NYCT'S ENGINEER, OF THE INTERIOR AND EXTERIOR OF NYCT SUBWAY OR OTHER STRUCTURE ADJACENT TO THE PROPOSED WORK. THE PERSON OR PERSONS AUTHORIZED BY THE CONTRACTOR TO MAKE THESE EXAMINATIONS SHALL BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL TAKE ALL PHOTOGRAPHS AS MAY BE NECESSARY OR ORDERED TO INDICATE THE EXISTING CONDITION OF NYCT STRUCTURE. ONE COPY OF EACH PHOTOGRAPH, EIGHT INCHES BY TEN INCHES IN SIZE, AND THE NEGATIVE IS TO BE SUBMITTED TO MR. JOHN MALVASIO, P.E., DIRECTOR, DEPARTMENT OF MAINTENANCE-OF-WAY, 130 LIVINGSTON STREET, ROOM 8044D, BROOKLYN, NEW YORK 11201, TELEPHONE 718/694-1358 BEFORE THE START OF CONSTRUCTION.
40. ALL ARCHITECTURAL DETAILS (TOKEN BOOTHS, RAILINGS, DOORS, ETC.) ARE TO CONFORM TO THE LATEST NYCT STANDARDS. THESE STANDARDS ARE AVAILABLE AT NYCT.
41. STANDARD NYCT INSURANCE CLAUSES ARE TO BE MADE PART OF THE PROJECT'S CONTRACT DRAWINGS. PROOF THAT THE NECESSARY INSURANCE IS IN EFFECT WILL BE REQUIRED BEFORE WORK CAN COMMENCE.
42. AT THE CLOSE OF ANY PROJECT INVOLVING CONSTRUCTION OR ALTERATIONS TO TRANSIT FACILITIES, ONE SET OF VELLUMS OR MYLARS, FIVE SETS OF 35MM MICROFILM, AND ELECTRONIC COPIES COMPLYING TO MICROSTATION.DGN FORMAT OF "APPROVED AS-BUILTS" MUST BE PROVIDED TO NYCT FOR ITS RECORDS. FOR DETAILS OF SPECIFIC REQUIREMENTS CONTACT NYCT OUTSIDE PROJECTS.
43. AT LEAST SEVEN WORKING DAYS PRIOR TO THE START OF CONSTRUCTION OPERATIONS, NOTIFICATION MUST BE GIVEN TO MR. JOHN MALVASIO, P.E., DIRECTOR, DEPARTMENT OF MAINTENANCE-OF-WAY, AT 718/694-1358. THE CONTRACTOR TO PROVIDE TEMPORARY QUARTERS NEAR THE JOB SITE FOR NYCT INSPECTORS CONTAINING A DESK AND TELEPHONE.

NSURANCE CLAUSES

1. THE PERMITTEE AT ITS SOLE COST AND EXPENSE SHALL CARRY OR CAUSE TO CARRIED AND SHALL MAINTAIN AT ALL TIMES DURING THE PERIOD OF PERFORMANCE UNDER THIS AGREEMENT POLICIES OF INSURANCE AS HEREIN BELOW SET FORTH BELOW;
    A. WORKERS' COMPENSATION INSURANCE (INCLUDING EMPLOYER'S LIABILITY INSURANCE) WITH LIMITS OF NOT LESS THAN $2,000,000, WHICH LIMIT MAY BE MET BY A COMBINATION OF PRIMARY AND EXCESS INSURANCE MEETING THE STATUTORY. LIMITS OF NEW YORK STATE. THE POLICY SHALL BE ENDORSED TO INCLUDE LONGSHOREMAN'S AND HARBOR WORKERS' COMPENSATION ACT/MARITIME COVERAGE ENDORSEMENT AND/OR JONES ACT ENDORSEMENT WHEN APPLICABLE.
    B. COMMERCIAL GENERAL LIABILITY INSURANCE (I.S.O. 2001 FORM OR EQUIVALENT) APPROVED BY PERMITTOR IN THE PERMITTEE'S NAME WITH LIMITS OF LIABILITY IN THE AMOUNT OF AT LEAST $3,000,000 FOR EACH OCCURRENCE ON A COMBINED SINGLE LIMIT BASIS FOR INJURIES TO PERSONS (INCLUDING DEATH) AND DAMAGE TO PROPERTY, $3,000,000 GENERAL AGGREGATE AND $3,000,000 IN THE AGGREGATE WITH RESPECT TO PRODUCTS/COMPLETED OPERATIONS. THE LIMITS MAY BE PROVIDED IN THE FORM OF A PRIMARY POLICY OR COMBINATION OF PRIMARY AND UMBRELLA/EXCESS POLICY. WHEN THE MINIMUM CONTRACT AMOUNTS CAN ONLY BE MET WHEN APPLYING THE UMBRELLA/EXCESS POLICY, THE UMBRELLA/EXCESS POLICY MUST FOLLOW FORM OF THE UNDERLYING POLICY AND BE EXTENDED TO "DROP DOWN' TO BECOME PRIMARY IN THE EVENT PRIMARY LIMITS ARE REDUCED OR .AGGREGATE LIMITS ARE EXHAUSTED, SUCH INSURANCE SHALL BE PRIMARY, AND NON-CONTRIBUTORY TO ANY OTHER VALID AND COLLECTIBLE INSURANCE AND MUST BE EXHAUSTED BEFORE IMPLICATING ANY PERMITTOR/MTA POLICY AVAILABLE. SUCH POLICY SHOULD BE WRITTEN ON AN OCCURRENCE FORM, AND SHALL INCLUDE:
        - CONTRACTUAL COVERAGE FOR LIABILITY ASSUMED BY THE PERMITTEE UNDER THIS AGREEMENT;
        - PERSONAL AND ADVERTISING INJURY COVERAGE;
        - PRODUCTS-COMPLETED OPERATIONS;
        - INDEPENDENT CONTRACTORS COVERAGE;
        - "XCU" COVERAGE (EXPLOSION, COLLAPSE, AND UNDERGROUND HAZARDS) WHERE NECESSARY;
        - CONTRACTUAL LIABILITY EXCLUSION, APPLICABLE TO CONSTRUCTION OR DEMOLITION OPERATIONS TO BE PERFORMED WITHIN.50. FEET OF RAILROAD TRACKS, MUST BE VOIDED, WHERE NECESSARY; AND ADDITIONAL INSURED ENDORSEMENT (I.S.O. FORM CG 20 26 07/04 VERSION OR EQUIVALENT) APPROVED BY THE PERMITTOR NAMING:

NEW YORK CITY TRANSIT AUTHORITY (NYCTA), THE MANHATTAN AND BRONX SURFACE TRANSIT OPERATING AUTHORITY (MABSTOA), THE STATEN ISLAND RAPID TRANSIT.

    C. BUSINESS AUTOMOBILE LIABILITY INSURANCE POLICY - (I.S.O. FORM CA 00 01 10 01 OR EQUIVALENT) APPROVED BY THE PERMITTOR IS REQUIRED IF PERMITTEE'S VEHICLE ENTERS PERMITTOR PROPERTY. THE INSURANCE MUST BE IN THE NAME OF THE PERMITTEE OR ITS CONTRACTOR ENTERING THE PERMITTOR PROPERTY WITH LIMITS OF LIABILITY IN THE AMOUNT OF $2,000,000 EACH ACCIDENT FOR CLAIMS FOR BODILY INJURIES (INCLUDING DEATH) TO PERSONS AND FOR DAMAGE TO PROPERTY ARISING OUT OF THE OWNERSHIP, MAINTENANCE OR USE OF ANY OWNED, HIRED OR NON-OWNED MOTOR VEHICLE.
    D. RAILROAD PROTECTIVE LIABILITY INSURANCE (ISO-RIMA OR EQUIVALENT FORM) APPROVED BY PERMITTOR COVERING THE WORK TO BE PERFORMED AT THE DESIGNATED JOB SITE AND AFFORDING PROTECTION FOR DAMAGES ARISING OUT OF BODILY INJURY OR DEATH, PHYSICAL DAMAGE TO OR DESTRUCTION OF PROPERLY, INCLUDING DAMAGE TO THE INSURED'S OWN PROPERTY AND CONFORMING TO THE FOLLOWING:
        - THE FOLLOWING ARE THE "NAMED INSURED" FOR THIS COVERAGE:

NEW YORK CITY TRANSIT AUTHORITY (NYCTA); THE MANHATTAN AND BRONX SURFACE TRANSIT OPERATING AUTHORITY (MABSTOA), THE STATEN ISLAND RAPID TRANSIT OPERATING AUTHORITY. (SIRTOA), MTA CAPITAL CONSTRUCTION CO., THE METROPOLITAN TRANSPORTATION AUTHORITY (MTA) INCLUDING ITS SUBSIDIARIES AND AFFILIATES, AND THE CITY OF NEW YORK (AS OWNER). THE LIMIT OF LIABILITY SHALL BE $2,000,000 AT LEAST EACH OCCURRENCE, SUBJECT TO A $6,000,000 ANNUAL AGGREGATE;

        - POLICY ENDORSEMENT CO 28 31 -POLLUTION EXCLUSION AMENDMENT IS REQUIRED TO BE ENDORSED ONTO THE POLICY WHEN ENVIRONMENTAL-RELATED WORK AND/OR EXPOSURES EXIST. OPERATING AUTHORITY (SIRTOA), MTA CAPITAL CONSTRUCTION CO., THE METROPOLITAN TRANSPORTATION AUTHORITY (MTA) INCLUDING ITS SUBSIDIARIES AND AFFILIATES, AND THE CITY OF NEW YORK (AS OWNER).
        - INDICATE THE NAME AND ADDRESS OF THE CONTRACTOR TO PERFORM THE WORK, THE CONTRACT # AND THE NAME OF THE RAILROAD PROPERTY WHERE THE WORK IS BEING PERFORMED AND THE AGENCY PERMIT.
        - EVIDENCE OF RAILROAD PROTECTIVE LIABILITY INSURANCE, MUST BE PROVIDED IN THE FORM OF THE ORIGINAL POLICY. A DETAILED INSURANCE BINDER (ACORD OR MANUSCRIPT FORM) WILL BE ACCEPTED PENDING ISSUANCE OF THE ORIGINAL POLICY, WHICH MUST BE PROVIDED WITHIN 30 DAYS OF THE BINDER APPROVAL. MTARIM
    E. ENVIRONMENTAL/POLLUTION EXPOSURES IN THE EVENT ENVIRONMENTAL OR POLLUTION EXPOSURES EXIST; THE PERMITTEE SHALL REQUIRE THE ENVIRONMENTAL CONTRACTOR OR SUB-CONTRACTOR TO PROVIDE THE APPLICABLE INSURANCE COVERING SUCH EXPOSURE. THE LIMITS AND TYPE OF INSURANCE PROVIDED SHALL BE SATISFACTORY TO THE PERMITTOR AND WILL BE CONFIRMED TO THE PARTIES PRIOR TO THE START OF THE WORK.

2. GENERAL REQUIREMENTS APPLICABLE TO INSURANCE POLICIES
    A. ALL OF THE INSURANCE REQUIRED BY THIS ARTICLE SHALL BE WITH COMPANIES LICENSED OR AUTHORIZED TO DO BUSINESS IN THE STATE OF NEW YORK WITH AN A.M. BEST COMPANY RATING OF NOT LESS THAN A-/VII OR BETTER AND REASONABLY APPROVED BY THE PERMITTOR/MTA AND SHALL DELIVER EVIDENCE OF SUCH POLICIES;
    B. EXCEPT FOR WORKERS COMPENSATION, ALL REFERENCES TO FORMS AND COVERAGES REFERRED TO ABOVE SHALL BE THE MOST RECENT USED BY THE INSURANCE SERVICES OFFICE INC, ("ISO") OR EQUIVALENT FORMS APPROVED BY THE INSURANCE DEPARTMENT OF THE STATE OR NEW YORK, PROVIDED, HOWEVER, THAT EXCESS COVERAGES MAY BE WRITTEN ON FORMS REASONABLY ACCEPTABLE TO PERMITTOR CONTAINING PROVISIONS OTHER THAN THOSE CONTAINED IN ISO FORMS BUT OTHERWISE CONFORMING IN SUBSTANCE TO THE REQUIREMENTS OF THIS ARTICLE
    C. THE PERMITTEE OR ITS CONTRACTOR PERFORMING THE WORK SHALL FURNISH EVIDENCE OF ALL POLICIES BEFORE ANY WORK IS STARTED TO THE PERMITTOR.

FOR NYCT CONTRACT INSPECTION

C/O MR. JOHN MALVASIO
DIRECTOR, MOW ENGINEERING
130 LIVINGSTON STREET, ROOM 8044F BROOKLYN, NY 11201
TELEPHONE: (718) 694•1358

THESE POLICIES MUST; (I) BE WRITTEN IN ACCORDANCE WITH THE REQUIREMENTS OF THE PARAGRAPHS ABOVE, AS APPLICABLE; (II) BE ENDORSED IN FORM ACCEPTABLE TO INCLUDE A PROVISION THAT THE POLICY WILL NOT BE CANCELLED, MATERIALLY CHANGED, OR NOT RENEWED, UNLESS OTHERWISE INDICATED HEREIN, AT LEAST THIRTY (30) DAYS PRIOR WRITTEN NOTICE TO THE PERMITTOR C/O MTA RISK AND INSURANCE MANAGEMENT DEPARTMENT – STANDARDS, ENFORCEMENT & CLAIMS UNIT, 2 BROADWAY -21ST FLOOR, NEW YORK, NY 10004; AND (III) STATE OR BE ENDORSED TO PROVIDE THAT THE COVERAGE AFFORDED UNDER THE CONTRACTOR'S POLICIES SHALL APPLY ON A PRIMARY AND NOT ON AN EXCESS OR CONTRIBUTING BASIS WITH ANY POLICIES WHICH MAY BE AVAILABLE TO THE PERMITTOR/MTA, AND ALSO THAT THE CONTRACTOR'S POLICIES, PRIMARY AND EXCESS, MUST BE EXHAUSTED BEFORE IMPLICATING ANY PERMITTOR/MTA POLICY AVAILABLE. (IV) IN ADDITION, CONTRACTOR'S POLICIES SHALL STATE OR BE ENDORSED TO PROVIDE THAT, IF A SUBCONTRACTOR'S POLICY CONTAINS ANY PROVISION THAT MAY ADVERSELY AFFECT WHETHER CONTRACTOR'S POLICIES ARE PRIMARY AND MUST BE EXHAUSTED BEFORE IMPLICATING ANY PERMITTOR/MTA POLICY AVAILABLE, CONTRACTOR'S AND SUBCONTRACTOR'S POLICIES SHALL NEVERTHELESS BE PRIMARY AND MUST BE EXHAUSTED BEFORE IMPLICATING ANY PERMITTOR/MTA POLICY AVAILABLE. EXCEPT FOR PROFESSIONAL LIABILITY, POLICIES WRITTEN ON CLAIMS MADE BASIS ARE NOT ACCEPTABLE. AT LEAST TWO (2) WEEKS PRIOR TO THE EXPIRATION OF THE POLICIES, CONTRACTOR SHALL ENDEAVOR TO PROVIDE EVIDENCE OF RENEWAL OR REPLACEMENT POLICIES OF INSURANCE, WITH TERMS AND LIMITS NO LESS FAVORABLE THAN THE EXPIRING POLICIES. EXCEPT AS OTHERWISE INDICATED IN THE DETAILED COVERAGE PARAGRAPHS BELOW, SELF INSURED RETENTIONS AND POLICY DEDUCTIBLES SHALL NOT EXCEED $100,000, UNLESS SUCH INCREASED DEDUCTIBLE OR RETENTION IS APPROVED BY PERMITTOR/MTA. THE PERMITTEE SHALL BE RESPONSIBLE FOR ALL CLAIM EXPENSE AND LOSS PAYMENTS WITHIN THE DEDUCTIBLE OR SELF-INSURED RETENTION. THE INSURANCE MONETARY LIMITS REQUIRED HEREIN MAY BE MET THROUGH THE COMBINED USE OF THE INSURED'S PRIMARY AND UMBRELLA/EXCESS POLICIES.

    D. CERTIFICATES OF INSURANCE MAY BE SUPPLIED AS EVIDENCE OF POLICIES OF THE ABOVE POLICIES, EXCEPT THE RAILROAD PROTECTIVE LIABILITY POLICY, DESIGNATED AS POLICY D. HOWEVER, IF REQUESTED BY THE PERMITTOR, THE PERMITTEE SHALL DELIVER TO THE AUTHORITY, WITHIN FORTY-FIVE (45) DAYS OF THE REQUEST, A COPY OF SUCH POLICIES, CERTIFIED BY THE INSURANCE CARRIER AS BEING TRUE AND COMPLETE. THE RAILROAD PROTECTIVE LIABILITY INSURANCE POLICY MUST BE PROVIDED IN THE FORM OF THE ORIGINAL POLICY. A DETAILED INSURANCE BINDER MAY BE PROVIDED, ACORD OR MANUSCRIPT FORM, PENDING ISSUANCE OF THE ORIGINAL POLICY. THE ORIGINAL POLICY MUST BE SUBM

DEPT OF BLDGS 122328919 Job Number
ES269972785 Scan Code

WEST 70TH STREET

CENTRAL PARK WEST

SOLDIER PILE AND TIMBER LAGGING (TYP.)

6' O.C. U.O.N

SIDEWALK

CONTINUOUS WALER (TYP .)

RAKER W SECTION, (TYP.)

SUB-CELLAR SLAB EL: +70.5
B.O. FOOTING EL: +69.75

EX. SLAB EL: +88.0
PROPOSED SLAB EL: +61.8
PROPOSED B.O. FOOTING EL: +58.7

EX. SLAB EL: +80.0
EX. B.O. WALL EL: +76.0

LIMITS OF SUB-CELLAR

8 WEST 70TH STREET
NEW YORK, NY
BLOCK: 1122 LOT: 37

18 WEST 70TH STREET
BLOCK: 1122 LOT: 40
9 STORY BRICK BUILDING

2 WEST 70TH STREET
BLOCK: 1122 LOT: 36
2 STORY MASONRY BUILDING

2' OR WIDTH OF FOOTING, WHICHEVER IS GREATER

4'-0" U.O.N.

YARD

BRICK WALL

IRREGULAR REMNANTS OF BRICK WALL

UNDERPINNING IDENTIFICATION

UNDERPINNING PIER

CELLAR SLAB EL: +80.77
B.O. FOOTING ESTIMATED EL: +80±

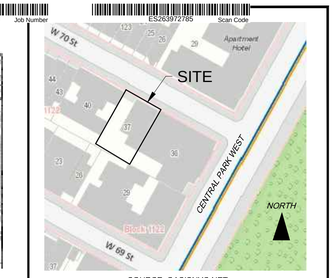
EX. SLAB EL: +80.5
B.O. WALL EL: +78.5

STONE WALL TO BE REMOVED PRIOR TO SOLDIER PILE INSTALLATION AS APPROVED BY 91 CENTRAL PARK WEST.

9 WEST 69TH STREET
BLOCK: 1122 LOT: 26
5 STORY BRICK BUILDING

91 CENTRAL PARK WEST
BLOCK: 1122 LOT: 29
15 STORY BRICK BUILDING

100 SUPPORT OF EXCAVATION PLAN
Scale: 3/32" = 1'-0"



SOURCE: OASISNYC.NET

NOTES:
1. REFER TO SOE-001 FOR GENERAL NOTES AND LIST OF DRAWINGS.

LEGEND:
- TEST PIT LOCATION
- BORING LOCATION (GTA ENGINEERING, 2007)
- BORING LOCATION (W.M. WALSH CO., 1970)
- SPOT ELEVATION

REV.	DATE	DETAILS

PROJECT
8 WEST 70TH STREET
NEW YORK, NY

TITLE
SUPPORT OF EXCAVATION PLAN

RA CONSULTANTS LLC
Geotechnical Engineering
47 WILKINS DRIVE DUMONT, NJ 07628
[T] 201.374.1794 [F] 201.374.1795 WWW.RACLLC.COM

SEAL AND SIGNATURE

DATE:	9/18/2013
PROJ. NO.:	12C1110
DRAWN BY:	ER / JJC
CHECKED BY:	WJP
DRAWING:	SOE-100.00
SHEET:	3 OF 10

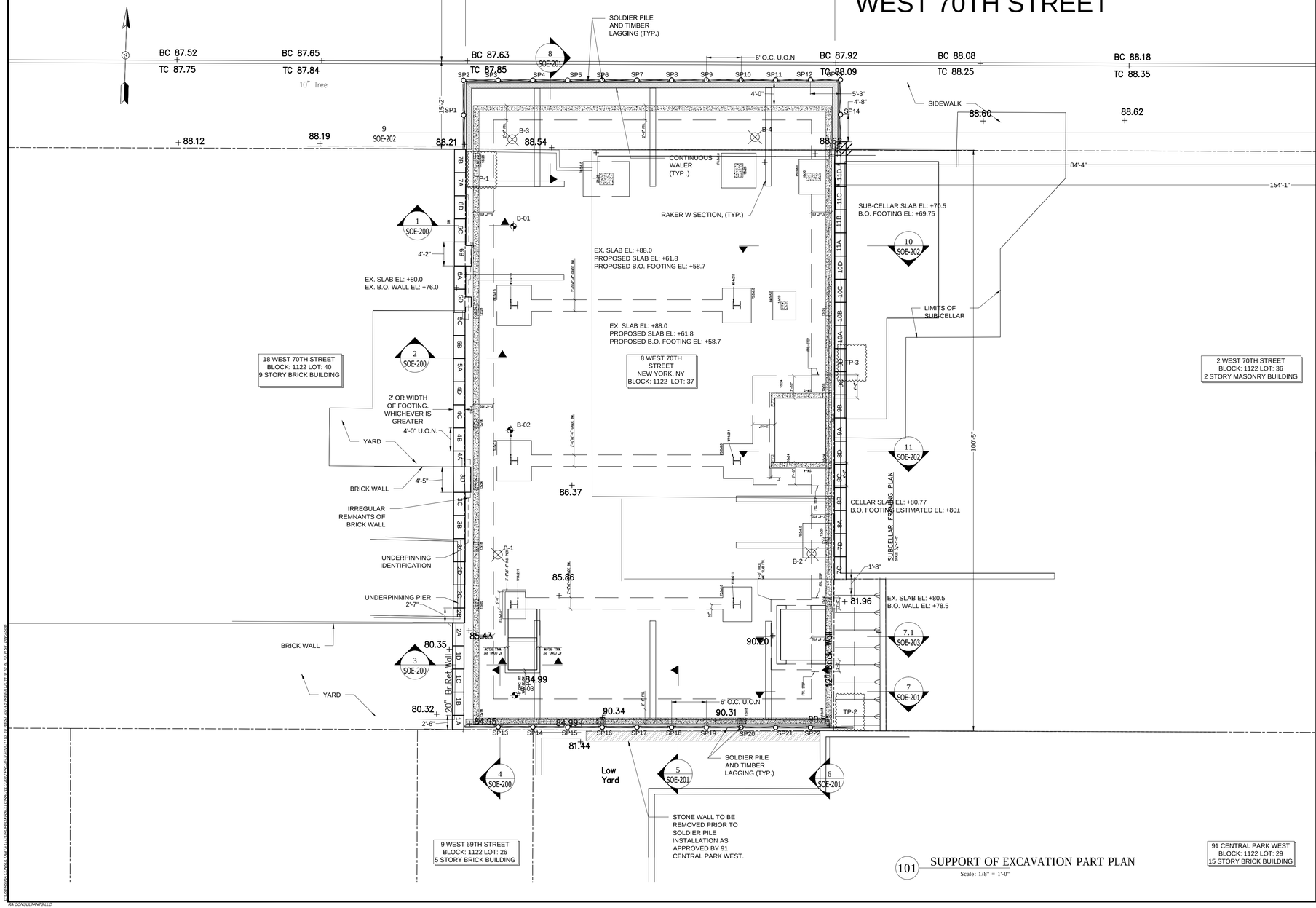
Shaugat
Buildings
APPRO
Under Directi
Date: 05/04/2
NYC Develop

Opp. Ex. 1001 Page 198 of 205

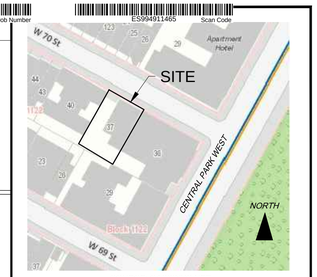
DEPT OF BLDGS 121328919 Job Number

ES994911465 Scan Code

WEST 70TH STREET



101 SUPPORT OF EXCAVATION PART PLAN
Scale: 1/8" = 1'-0"



SOURCE: OASISNYC.NET

NOTES:
1. REFER TO SOE-001 FOR GENERAL NOTES AND LIST OF DRAWINGS.
2. REFER TO SOE 100 FOR LEGEND.

UNDERPINNING SEQUENCE:

1. CONSTRUCT UNDERPINNING PIER "A" WITHIN TIGHT TIMBER SHEETING AND WAIT TO CURE. FORM A JACKING POCKET IF UNDERPINNING IS NOT BEARING ON COMPETENT ROCK.
2. JACK, SHIM AND WEDGE OR SHIM AND WEDGE PIER "A".
   2.1. IF APPLICABLE, INSTALL LATERAL SUPPORT AT UNDERPINNING "A".
3. CONSTRUCT UNDERPINNING "B" AND WAIT TO CURE.
4. SHIM, WEDGE, AND DRYPACK PIER "B".
5. CONSTRUCT UNDERPINNING C" AND WAIT TO CURE.
6. SHIM, WEDGE, AND DRYPACK PIER "C".
7. CONSTRUCT UNDERPINNING "D" AND WAIT TO CURE.
8. SHIM, WEDGE, AND DRYPACK PIER "D".
9. REDRIVE WEDGES AT "A" PIERS AND DRYPACK.

Shaugat

Buildings

APPRC

Under Directi

Date: 05/04/2

NYC Develop

REV.	DATE	DETAILS

PROJECT
8 WEST 70TH STREET
NEW YORK, NY

TITLE
SUPPORT OF EXCAVATION PLAN

RA CONSULTANTS LLC
Geotechnical Engineering
47 WILKENS DRIVE [T] 201.374.1794 [F] 201.374.1795 DUMONT, NJ. 07628 WWW.RACLLC.COM

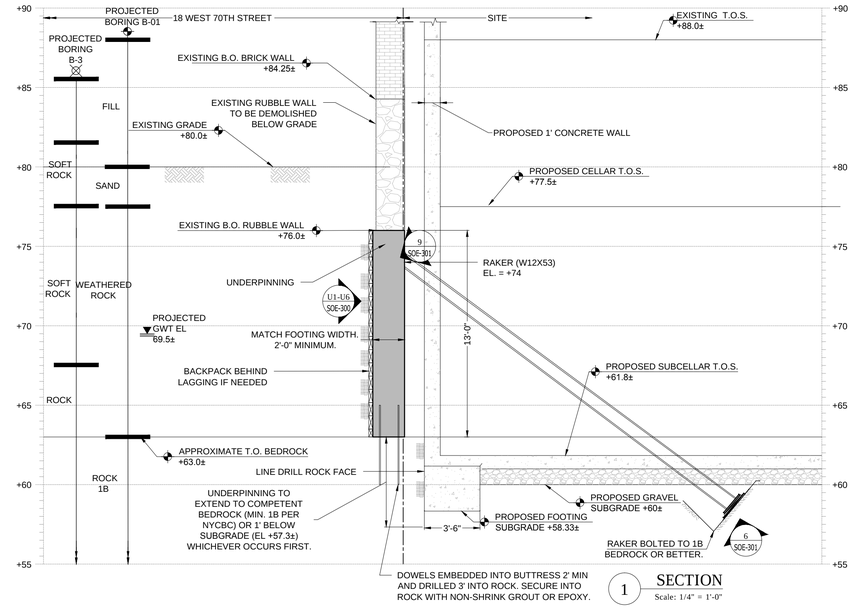
SEAL AND SIGNATURE

STATE OF NEW YORK — ANGELO RAMOS — 090417 — LICENSED PROFESSIONAL ENGINEER

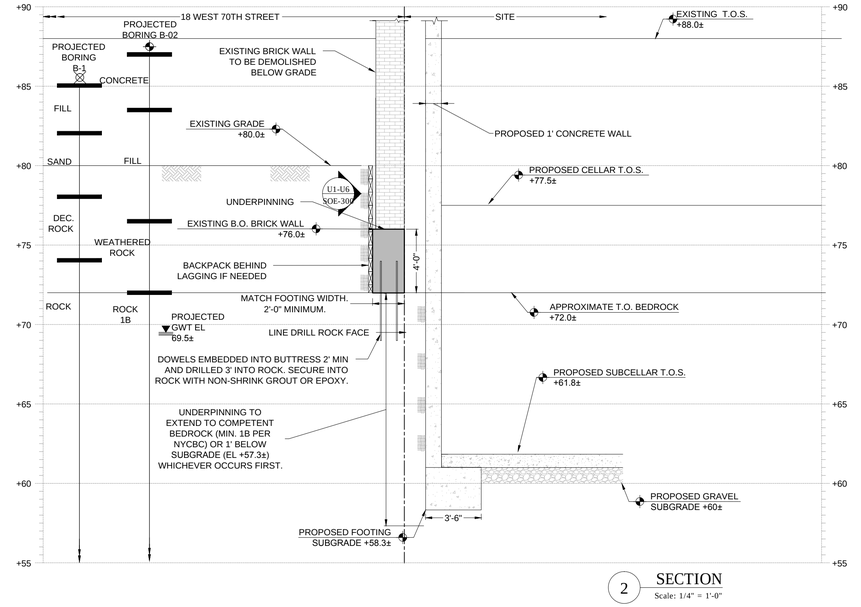
DATE:	9/19/2013
PROJ. NO.:	12C1110
DRAWN BY:	ER / JJC
CHECKED BY:	WJP
DRAWING:	SOE-101.00
SHEET:	4 OF 10

C:\REVISION_CONSULTANTS\ACCDOCS\RACLLC (2012)\12C1110 - 8 WEST 70TH STREET\12C1110 - 8 WEST 70TH STREET_DWG.DWG
RA CONSULTANTS LLC

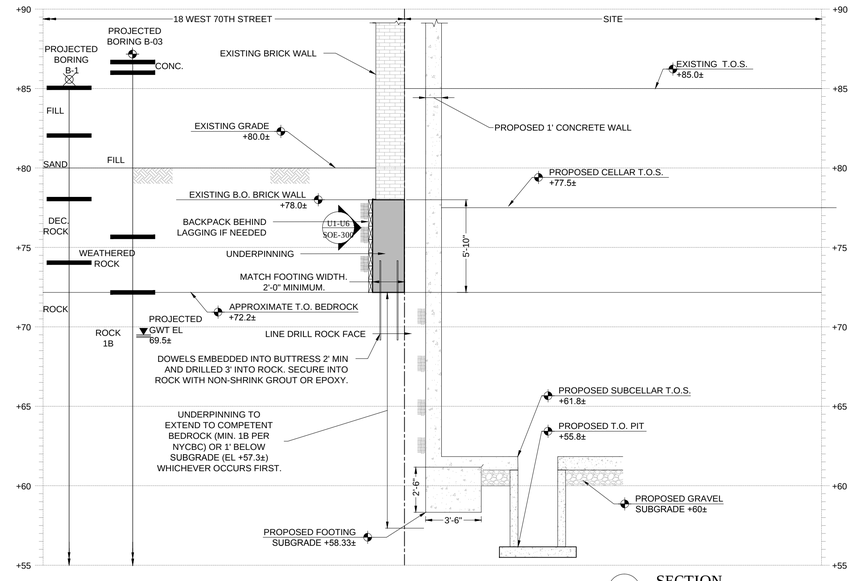
DEPT OF BLDGS 121328919 Job Number
ES625068994 Scan Code



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



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



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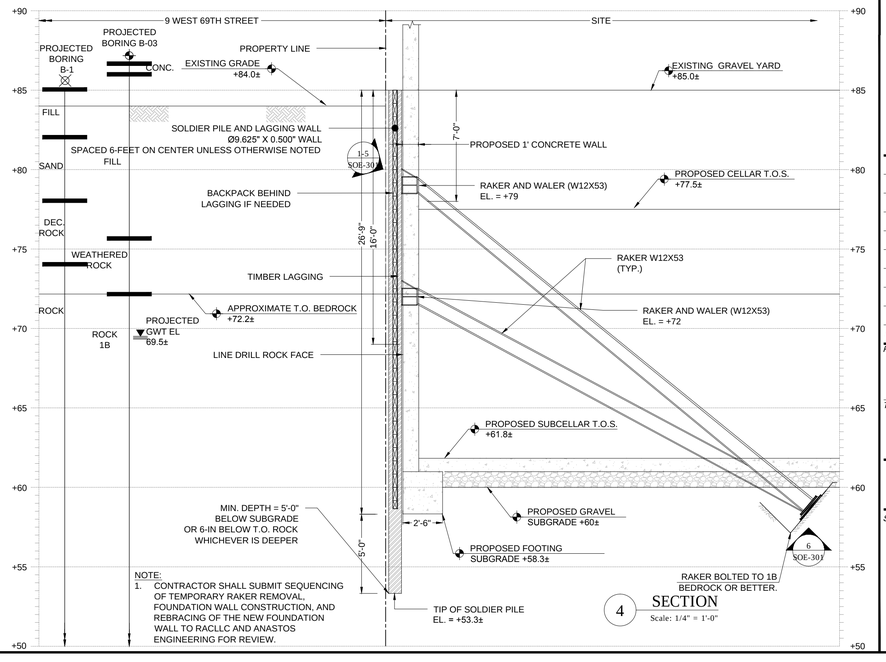
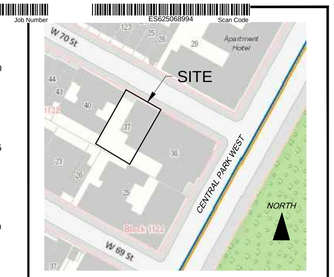


NOTE:
1. CONTRACTOR SHALL SUBMIT SEQUENCING OF TEMPORARY RAKER REMOVAL, FOUNDATION WALL CONSTRUCTION, AND REBRACING OF THE NEW FOUNDATION WALL TO RACLLC AND ANASTOS ENGINEERING FOR REVIEW.

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



SOURCE: OASISNYC.NET

NOTES:
1. REFER TO SOE-001 FOR GENERAL NOTES AND LIST OF DRAWINGS.
2. REFER TO SOE-101 FOR UNDERPINNING SEQUENCE.

REV.	DATE	DETAILS

PROJECT
8 WEST 70TH STREET
NEW YORK, NY

TITLE
SUPPORT OF EXCAVATION SECTIONS

RA CONSULTANTS LLC
Geotechnical Engineering
47 WILKENS DRIVE DUMONT, NJ. 07628
[T] 201.374.1794 [F] 201.374.1795 WWW.RACLLC.COM

SEAL AND SIGNATURE

DATE:	9/19/2013
PROJ. NO.:	12C1110
DRAWN BY:	ER / JJC
CHECKED BY:	WJP
DRAWING:	SOE-200.00
SHEET:	5 OF 10

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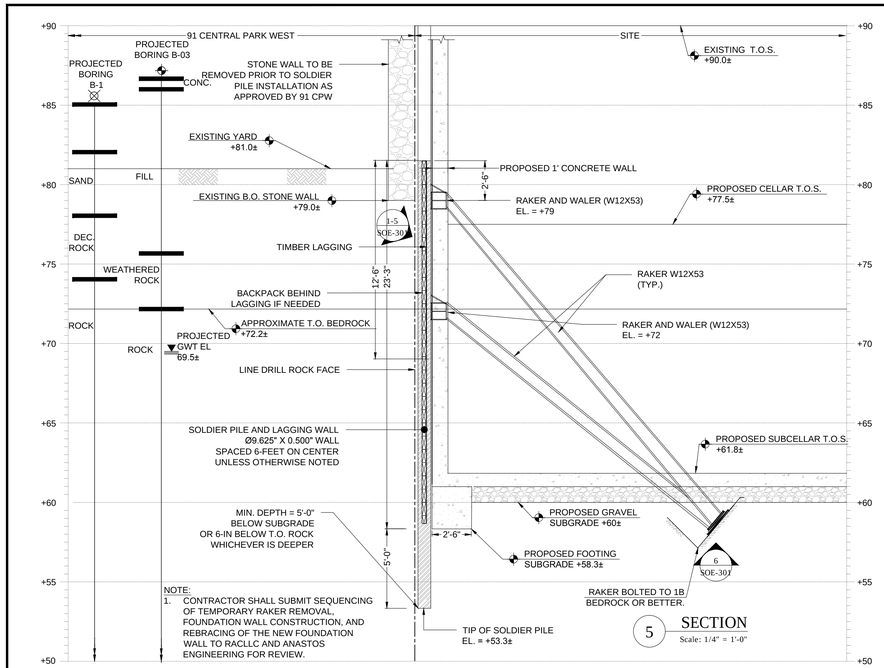
Build
APPRO
Under Directi
Date: 05/04/2
NYC Develop

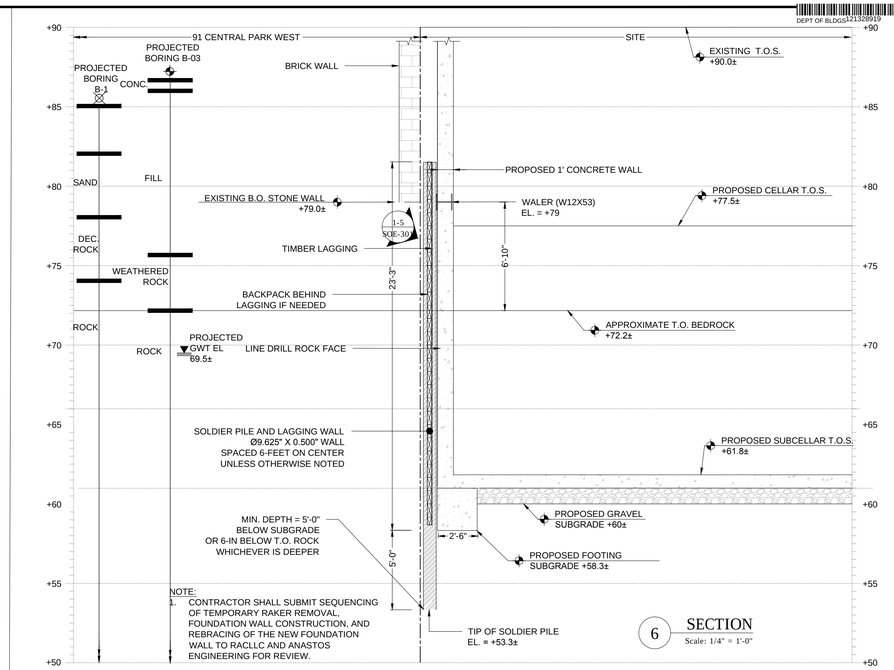
G:\WORKING FILES\12C1110 8 WEST 70TH STREET\12C1110 8 WEST 70TH STREET\12C1110 SOE.RVT 9/19/2013 2:08:08 PM
RA CONSULTANTS LLC

Opp. Ex. 1001 Page 200 of 205



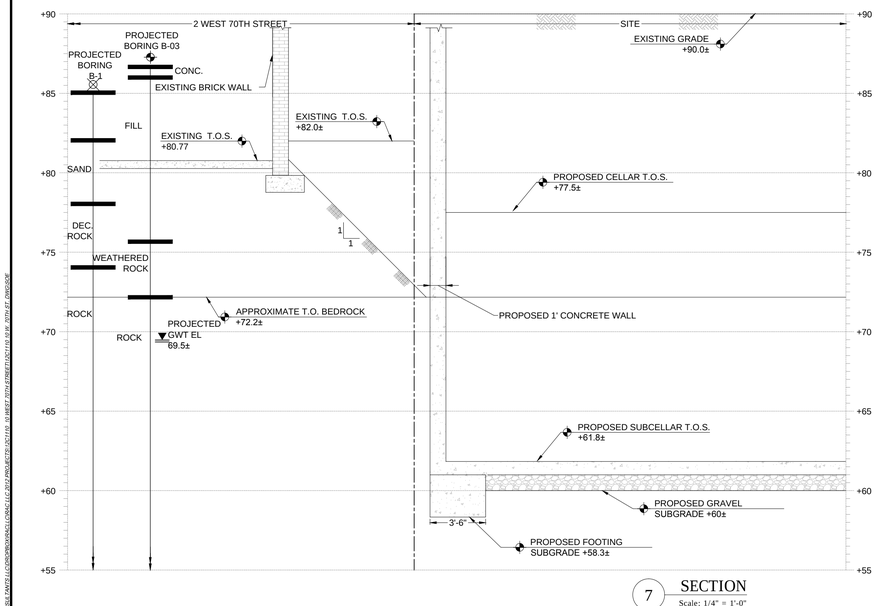
NOTE:
1. CONTRACTOR SHALL SUBMIT SEQUENCING OF TEMPORARY RAKER REMOVAL, FOUNDATION WALL CONSTRUCTION, AND REBRACING OF THE NEW FOUNDATION WALL TO RACLLC AND ANASTOS ENGINEERING FOR REVIEW.

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

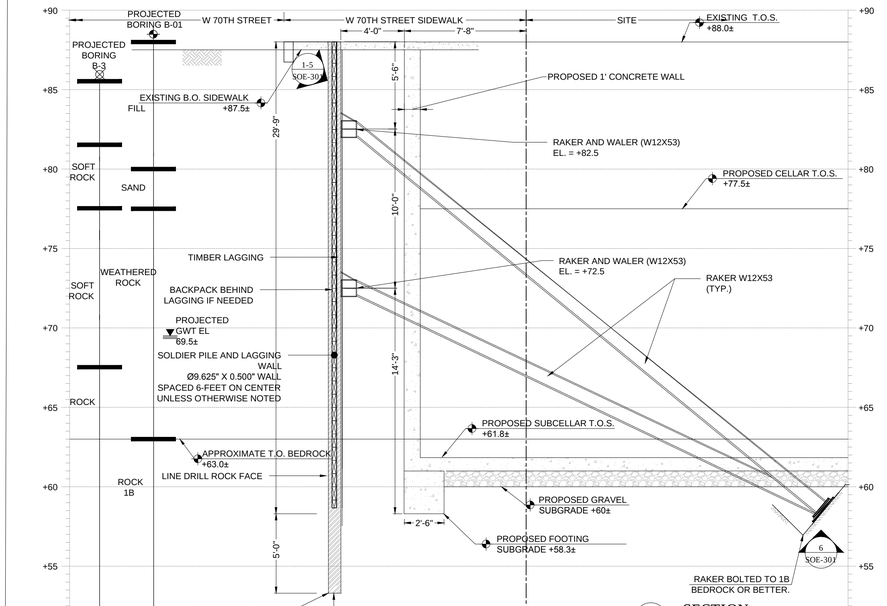


NOTE:
1. CONTRACTOR SHALL SUBMIT SEQUENCING OF TEMPORARY RAKER REMOVAL, FOUNDATION WALL CONSTRUCTION, AND REBRACING OF THE NEW FOUNDATION WALL TO RACLLC AND ANASTOS ENGINEERING FOR REVIEW.

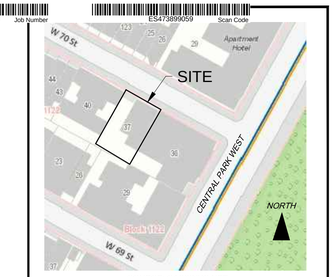
6 SECTION
Scale: 1/4" = 1'-0"



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



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



SOURCE: OASISNYC.NET

NOTES:
1. REFER TO SOE-001 FOR GENERAL NOTES AND LIST OF DRAWINGS.
2. REFER TO SOE-101 FOR UNDERPINNING SEQUENCE.

DEPT OF BLDGS Job Number 121328919

ESA73899059 Scan Code

REV.	DATE	DETAILS

PROJECT
8 WEST 70TH STREET
NEW YORK, NY

TITLE
SUPPORT OF EXCAVATION SECTIONS

RA CONSULTANTS LLC
Geotechnical Engineering
47 WILKINS DRIVE DUMONT, NJ. 07628
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SEAL AND SIGNATURE

DATE:	9/19/2013
PROJ. NO.:	12C1110
DRAWN BY:	ER / JJC
CHECKED BY:	WJP
DRAWING:	SOE-201.00
SHEET:	6 OF 10

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Buildings
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Under Directi
Date: 05/04/2
NYC Develop

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RA CONSULTANTS LLC

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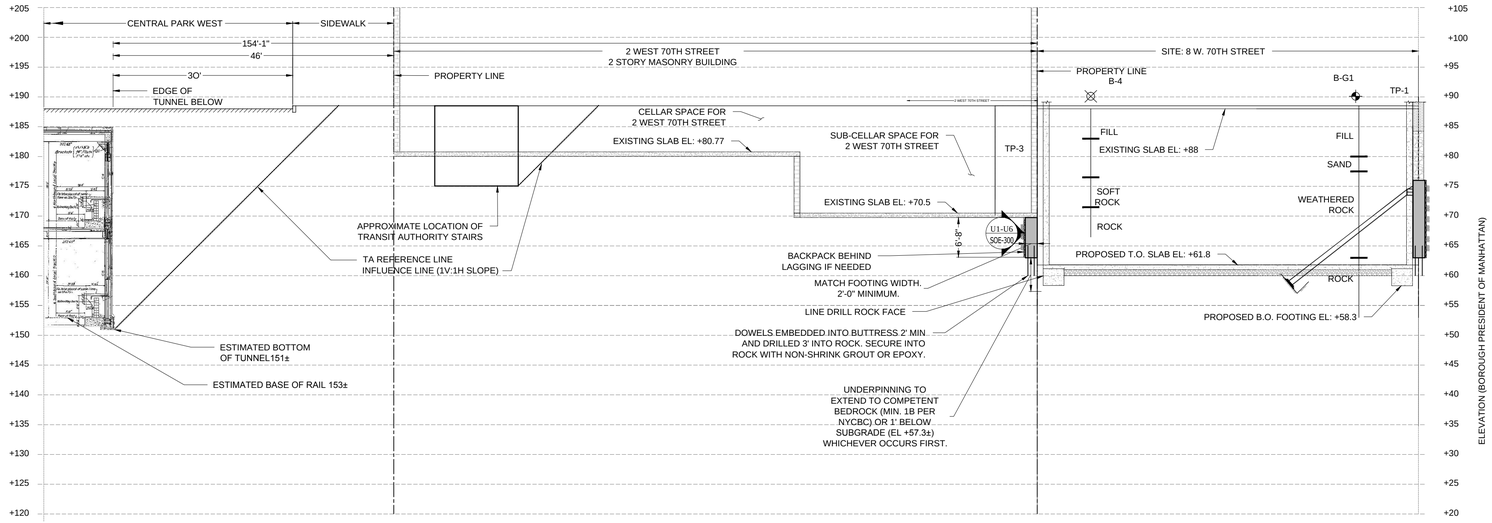
DEPT OF BLDGS 121328919 Job Number

ES971966752 Scan Code



9 SECTION
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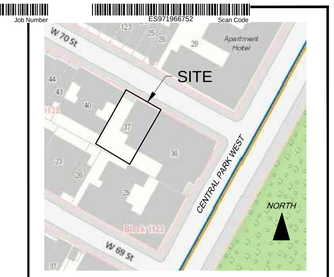
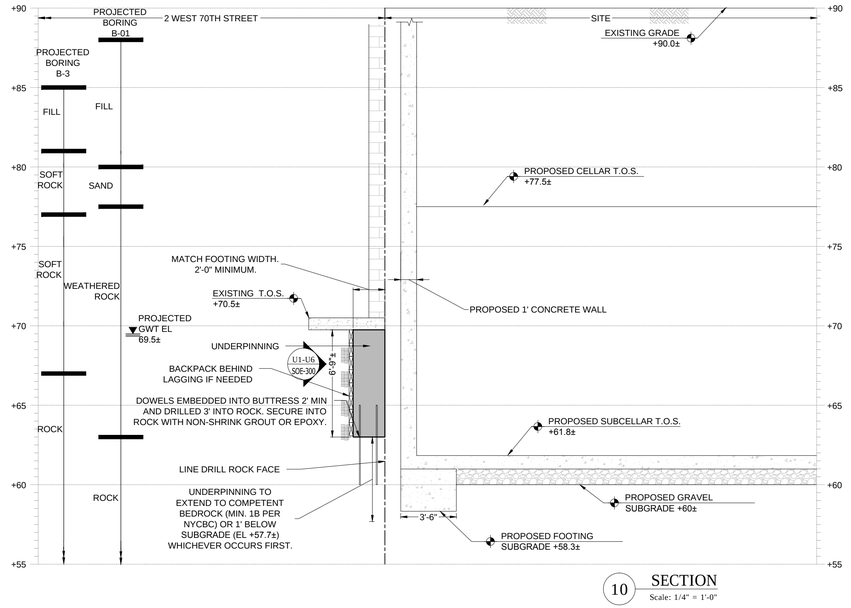
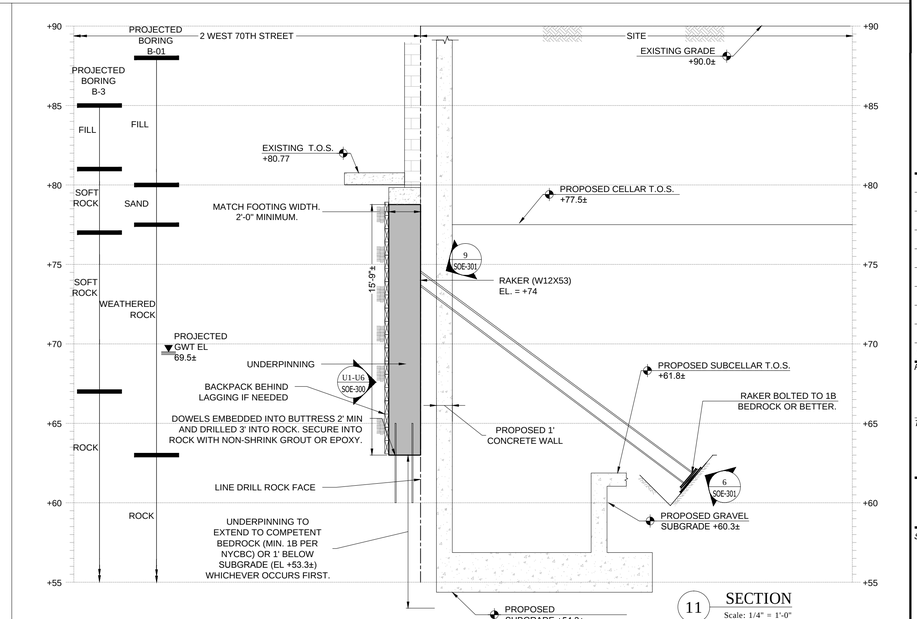


SOURCE: OASISNYC.NET

NOTES:
1. REFER TO SOE-001 FOR GENERAL NOTES AND LIST OF DRAWINGS.
2. REFER TO SOE-1O1 FOR UNDERPINNING SEQUENCE.



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



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

REV.	DATE	DETAILS

PROJECT
8 WEST 70TH STREET
NEW YORK, NY

TITLE
SUPPORT OF EXCAVATION SECTIONS

RA CONSULTANTS LLC
Geotechnical Engineering
47 WILKINS DRIVE DUMONT, NJ. 07628
[T] 201.374.1794 [F] 201.374.1795 WWW.RACLLC.COM

SEAL AND SIGNATURE

DATE:	9/19/2013
PROJ. NO.:	12C1110
DRAWN BY:	ER / JJC
CHECKED BY:	WJP
DRAWING:	SOE-202.00
SHEET:	7 OF 10

Shaugat
Buildings
APPRC
Under Directi
Date: 05/04/2
NYC Develop

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RA CONSULTANTS LLC

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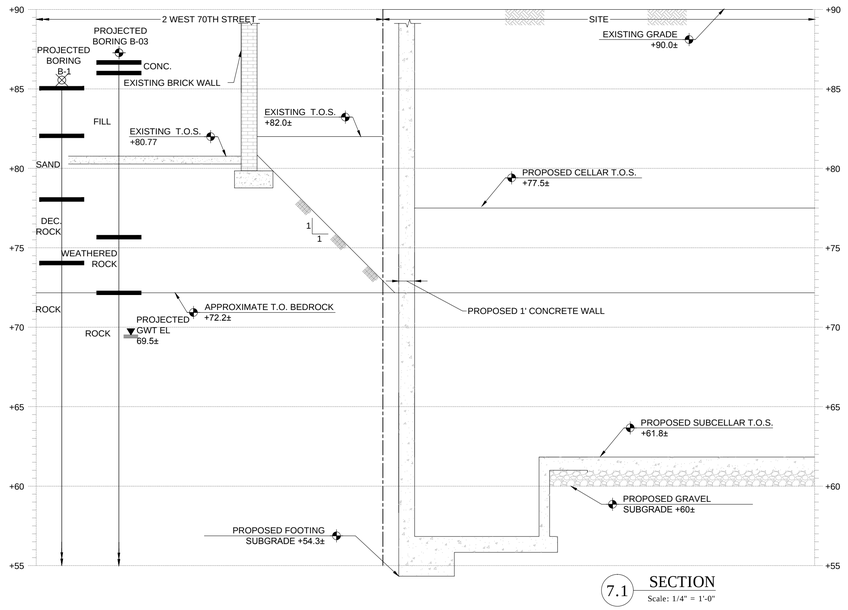
DEPT OF BLDGS 121328919 Job Number
ES963956030 Scan Code



7.1 SECTION
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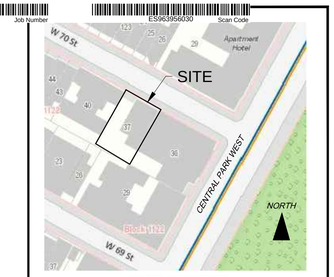

SOURCE: OASISNYC.NET

NOTES:
1. REFER TO SOE-001 FOR GENERAL NOTES AND LIST OF DRAWINGS.
2. REFER TO SOE-1O1 FOR UNDERPINNING SEQUENCE.

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Buildings
APPRO
Under Directi
Date: 05/04/2
NYC Develop

REV.	DATE	DETAILS

PROJECT
8 WEST 70TH STREET
NEW YORK, NY

TITLE
SUPPORT OF EXCAVATION SECTIONS

RA CONSULTANTS LLC
Geotechnical Engineering
47 WILKENS DRIVE DUMONT, NJ 07628
[T] 201.374.1794 [F] 201.374.1795 WWW.RACLLC.COM

SEAL AND SIGNATURE

STATE OF NEW YORK
WILLIAM J. PAPPAS
LICENSED PROFESSIONAL ENGINEER

DATE: 9/18/2013
PROJ. NO.: 12C1110
DRAWN BY: ER / JJC
CHECKED BY: WJP
DRAWING: SOE-203.00
SHEET: 8 OF 10

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RA CONSULTANTS LLC

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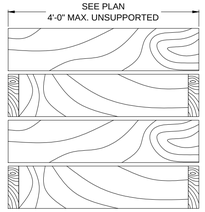
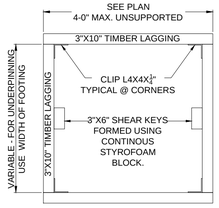
DEPT OF BLDGS 121328919 Job Number
ES327481610 Scan Code



SECTION

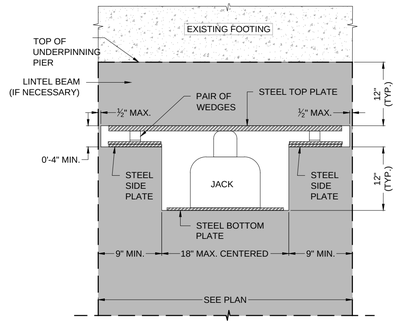


PLAN

NOTES:

1. USE SHEAR KEYS FOR UNDERPINNING PITS ONLY.
2. ALTERNATE SHEETING CONSTRUCTION IS ALLOWED IF APPROVED BY RA CONSULTANTS LLC.
3. LUMBER SIZED IN ACCORDANCE WITH TABLE 3304.4.1 .1 OF THE 2008 NEW YORK CITY BUILDING CODE.
4. REFER TO DETAIL U2 ON SOE-300 FOR SHEETED APPROACH PIT.
5. BACK PACK BEHIND LAGGING AS NEEDED.

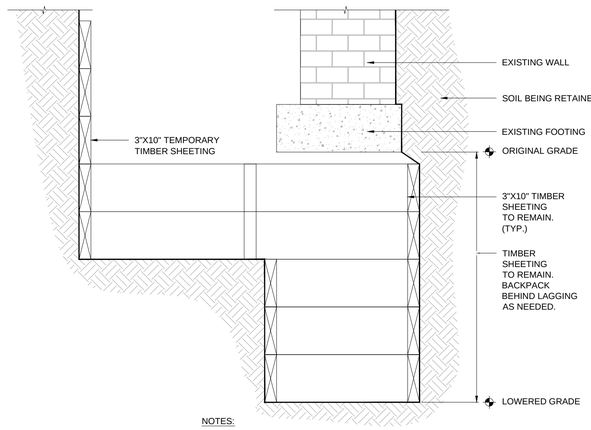
HAND EXCAVATED SHEETED PIT (TYP.)
NOT TO SCALE — U1



UNDERPINNING JACKING ELEVATION
NOT TO SCALE — U3

PIER CONSTRUCTION AND JACKING SEQUENCE:

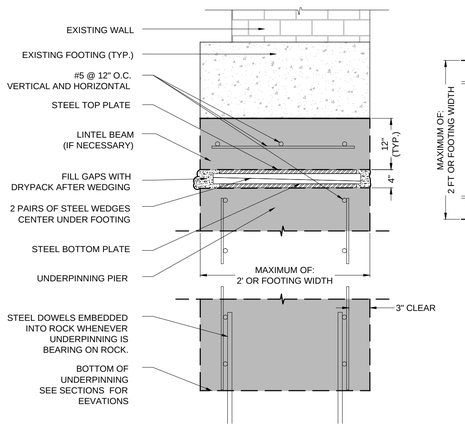
1. EXCAVATE PIT AND SIMULTANEOUSLY PLACE REQUIRED SHEETING AND BRACING.
2. LOSS OF GROUND SHOULD BE KEPT TO A MINIMUM BY BACKFILLING BEHIND THE BOARDS WHERE AND WHEN POSSIBLE WITH GROUT PUMPED INTO THE VOIDS. PACK VOIDS BETWEEN SHEETING AND SOIL WITH SOIL CEMENT.
3. CLEAN BOTTOM OF EXISTING FOOTING. IF BOTTOM OF EXISTING FOOTING IS SMOOTH AND LEVEL, RA CONSULTANTS LLC MAY ACCEPT NOT CONSTRUCTING THE LINTEL BEAM.
4. PREPARE SUBGRADE FOR INSPECTION.
5. AFTER SUBGRADE INSPECTION, INSTALL REINFORCING STEEL AS REQUIRED.
6. FORM VOID FOR JACKING POCKET AND WEDGES USING STYROFOAM.
7. POUR CONCRETE UNDER PRESSURE HEAD AND VIBRATE. IF LINTEL BEAM IS CONSTRUCTED, PROVIDE FULL CONTACT WITH BOTTOM OF FOOTING. CONCRETE SURFACES IN TOUCH WITH STEEL PLATES SHALL BE SMOOTH AND LEVEL.
8. REMOVE JACKING POCKET FORM AND STYROFOAM FOR PLATES AND WEDGES.
9. LEVELING GROUT SHALL CONSIST OF CEMENT AND WATER MIX.
10. INSTALL STEEL TOP PLATE (1"X20"X3'-8" VAR.) IN THE TOP OF THE POCKET. PROVIDE LEVELING GROUT AS NECESSARY BETWEEN TOP PLATE AND BOTTOM OF FOOTING OR LINTEL BEAM.
11. INSTALL STEEL BOTTOM PLATE (½"X20"X1'-10" VAR.) ADD STEEL PLATES AS NECESSARY TO MAKE HEIGHT.
12. INSTALL STEEL SIDE PLATES (½"X8"X1'-10" VAR.) ON JACKING POCKET SIDES. PROVIDE LEVELING GROUT BETWEEN STEEL PLATES AND UNDERPINNING PIER. ADD STEEL PLATES AS NECESSARY TO MAKE HEIGHT.
13. INSTALL CALIBRATED 100-TON JACK IN JACKING POCKET WITH HYDRAULIC HOSES ATTACHED.
14. SET UP SURVEYING INSTRUMENT AND MONITORING POINTS ON WALL ABOVE THE JACK AND 10 FEET EITHER SIDE OF THE JACK.
15. INCREASE JACKING PRESSURE UNTIL BUILDING SUSTAINS A MAXIMUM OF 1/16TH INCH LIFT AND RECORD PRESSURE.
16. MAINTAIN PRESSURE AS UNDERPINNING SETTLES.
17. AFTER UNDERPINNING HOLDS LOAD WITHOUT SETTLEMENT FOR 10 MINUTES, PLACE AND DRIVE WEDGES BETWEEN STEEL TOP PLATE AND STEEL SIDE PLATES.
18. RELEASE PRESSURE AND REMOVE HYDRAULIC JACK.
19. REPEAT PIER CONSTRUCTION SEQUENCE FOR ADJACENT PIERS.
20. DRY PACK JACKING POCKET SIDES AND FILL JACKING POCKET WITH CONCRETE UNDER PRESSURE HEAD.

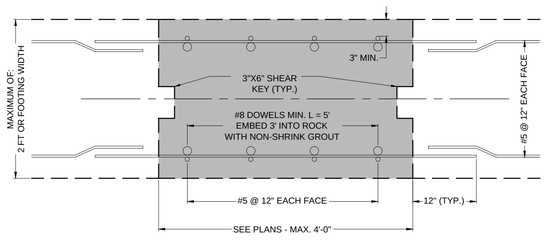


NOTES:

1. REFER TO DETAIL U1 ON SOE-300 FOR HAND EXCAVATED SHEETED PIT.

SHEETED APPROACH PIT (TYP.)
NOT TO SCALE — U2



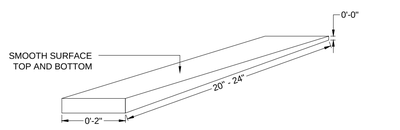


UNDERPINNING PLAN

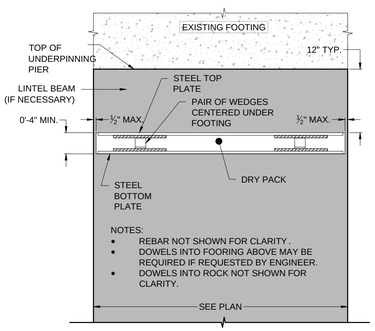
NOTES:

1. WEDGE OR JACK AND WEDGE BASED ON UNDERPINNING SEQUENCE (SOE-100) OR RA CONSULTANTS LLC FIELD RECOMMENDATIONS.
2. USE TIMBER SHEETING TO FORM PIT. REFER TO DETAIL U1-U2 ON SOE-300.
3. EMBED STEEL DOWELS INTO ROCK IF UNDERPINNING IS BEARING ON ROCK.

UNDERPINNING REINFORCING DETAIL
NOT TO SCALE — U4



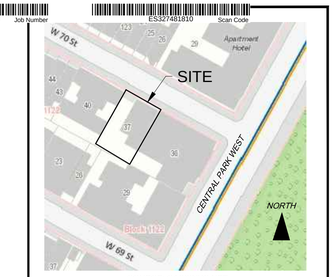
STEEL WEDGE DETAIL
SCALE: 6" = 1'-0" — U6



PIER CONSTRUCTION SEQUENCE:

1. EXCAVATE PIT AND SIMULTANEOUSLY PLACE REQUIRED SHEETING AND BRACING.
2. LOSS OF GROUND SHOULD BE KEPT TO A MINIMUM BY BACKFILLING BEHIND THE BOARDS WHERE AND WHEN POSSIBLE WITH GROUT PUMPED INTO THE VOIDS. PACK VOIDS BETWEEN SHEETING AND SOIL WITH SOIL CEMENT.
3. CLEAN BOTTOM OF EXISTING FOOTING. IF BOTTOM OF EXISTING FOOTING IS SMOOTH AND LEVEL, RA CONSULTANTS LLC MAY ACCEPT NOT CONSTRUCTING THE LINTEL BEAM.
4. PREPARE SUBGRADE FOR INSPECTION.
5. AFTER SUBGRADE INSPECTION, INSTALL REINFORCING STEEL AS REQUIRED.
6. FORM VOID FOR PLATES AND WEDGES USING STYROFOAM.
7. POUR CONCRETE UNDER PRESSURE HEAD AND VIBRATE. IF LINTEL BEAM IS CONSTRUCTED, PROVIDE FULL CONTACT WITH BOTTOM OF FOOTING. CONCRETE SURFACES IN TOUCH WITH STEEL PLATES SHALL BE SMOOTH AND LEVEL.
8. WAIT FOR CONCRETE TO CURE.
9. REMOVE STYROFOAM FOR PLATES AND WEDGES.
10. LEVELING GROUT SHALL CONSIST OF CEMENT AND WATER MIX.
11. INSTALL STEEL TOP PLATE (1"X20"X3'-8" VAR.) IN THE TOP OF THE POCKET. PROVIDE LEVELING GROUT AS NECESSARY BETWEEN TOP PLATE AND BOTTOM OF FOOTING OR LINTEL BEAM.
12. INSTALL STEEL BOTTOM PLATE (½"X20"X3'-10" VAR.) ADD STEEL PLATES AS NECESSARY TO MAKE HEIGHT.
13. PLACE AND DRIVE WEDGES BETWEEN STEEL TOP PLATE AND STEEL BOTTOM PLATE. WEDGES SHALL BE PLACES 2-FT ON CENTER AND SHALL BE CENTERED UNDER THE FOOTING OR LINTEL BEAM.
14. REPEAT PIER CONSTRUCTION SEQUENCE FOR ADJACENT PIERS.
15. DRY PACK VOID BETWEEN WEDGES.

UNDERPINNING ELEVATION
WITHOUT JACKING POCKET
NOT TO SCALE — U5



SOURCE: OASISNYC.NET

NOTES:

1. REFER TO SOE-001 FOR GENERAL NOTES AND LIST OF DRAWINGS.

REV.	DATE	DETAILS

PROJECT

8 WEST 70TH STREET
NEW YORK, NY

TITLE

SUPPORT OF EXCAVATION DETAILS

RA CONSULTANTS LLC
Geotechnical Engineering
47 WILKINS DRIVE [T] 201.374.1794 [F] 201.374.1795
DUMONT, NJ 07628 WWW.RACLLC.COM

SEAL AND SIGNATURE

DATE:	9/18/2013
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DRAWN BY:	ER / JJC
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DRAWING:	SOE-300.00
SHEET:	9 OF 10

Shaugat
Buildings
APPRC
Under Directi
Date: 05/04/2
NYC Develop

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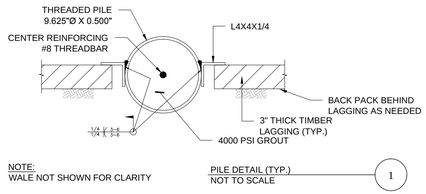
RA CONSULTANTS LLC

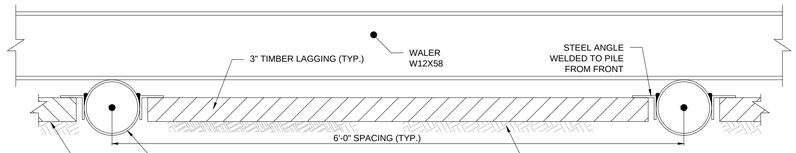
Opp. Ex. 1001 Page 204 of 205

DEPT OF BLDGS 121328919 Job Number
ES927180427 Scan Code



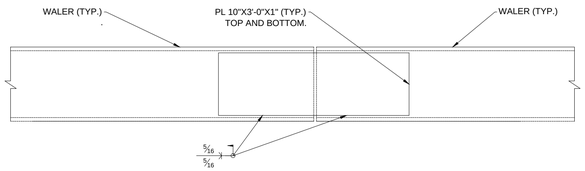
NOTE:
WALE NOT SHOWN FOR CLARITY

PILE DETAIL (TYP.)
NOT TO SCALE — 1

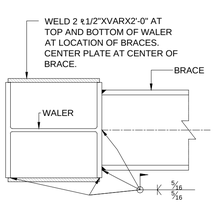


SOLDIER PILE AND WALER PLAN
NOT TO SCALE — 2

NOTE:
RAKER NOT SHOWN FOR CLARITY



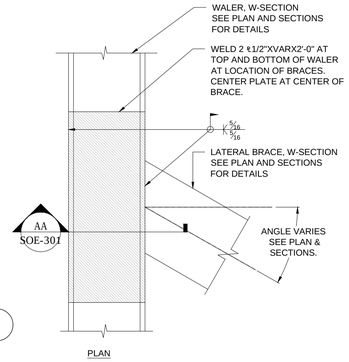
WALE SPLICE DETAIL (TYP.)
NOT TO SCALE — 3



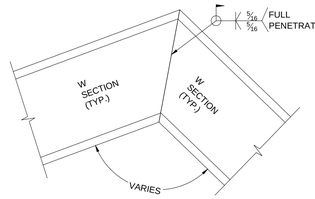
SECTION
AA

NOTES:
1. PILE NOT SHOWN FOR CLARITY.
2. DETAIL APPLICABLE AT EVERY LATERAL BRACE CONNECTION TO WALER.

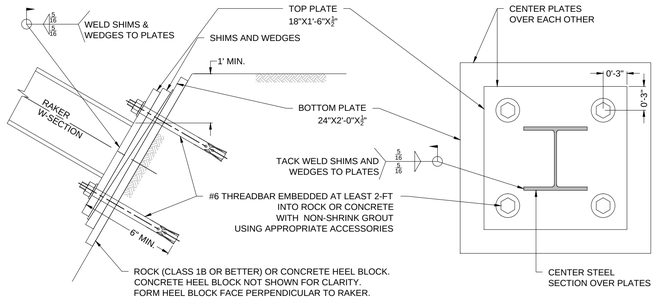
LATERAL BRACE CONNECTION
TO WALER PLAN DETAIL (TYP.)
NOT TO SCALE — 4



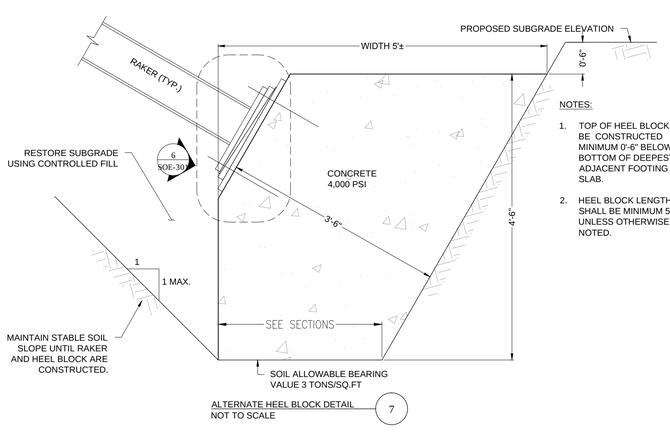
PLAN



CORNER CONNECTION DETAIL
NOT TO SCALE — 5

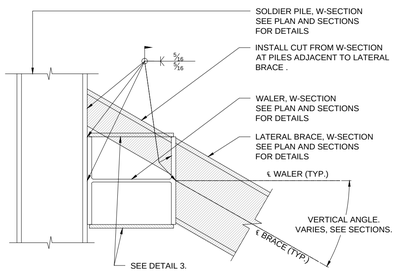


RAKER END AND END PLATE DETAIL (TYP.)
NOT TO SCALE — 6



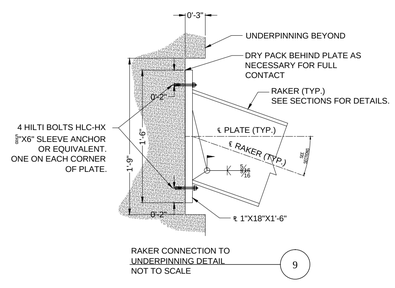
ALTERNATE HEEL BLOCK DETAIL
NOT TO SCALE — 7

NOTES:
1. TOP OF HEEL BLOCK SHALL BE CONSTRUCTED MINIMUM 0'-6" BELOW THE BOTTOM OF DEEPEST ADJACENT FOOTING OR SLAB.
2. HEEL BLOCK LENGTH SHALL BE MINIMUM 5'-0" UNLESS OTHERWISE NOTED.

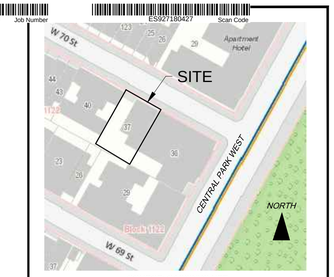


LATERAL BRACE CONNECTION
TO WALER SECTION DETAIL (TYP.)
NOT TO SCALE — 8

NOTES:
1. DETAIL APPLICABLE WHEREVER BRACE IS INCLINED FROM.



RAKER CONNECTION TO
UNDERPINNING DETAIL
NOT TO SCALE — 9



SOURCE: OASISNYC.NET

NOTES:
1. REFER TO SOE-001 FOR GENERAL NOTES AND LIST OF DRAWINGS.

Shaugat
Buildings
APPRO
Under Directi
Date: 05/04/2
NYC Develop

REV.	DATE	DETAILS

PROJECT
8 WEST 70TH STREET
NEW YORK, NY

TITLE
SUPPORT OF EXCAVATION
DETAILS

RA CONSULTANTS LLC
Geotechnical Engineering
47 WILKINS DRIVE DUMONT, NJ 07628
[T] 201.374.1794 [F] 201.374.1795 WWW.RACLLC.COM

SEAL AND SIGNATURE

STATE OF NEW YORK
JAY CHEN
LICENSED PROFESSIONAL ENGINEER

DATE:	9/18/2013
PROJ. NO.:	12C1110
DRAWN BY:	ER / JJC
CHECKED BY:	WJP
DRAWING:	SOE-301.00
SHEET:	10 OF 10

C:\USERS\RA-CONSULTANTS\11 LIC\PROJ\PROJECTS\12C1110_8 WEST 70TH STREET\12C1110_8 WEST 70TH ST_REVIT\12C1110_8 WEST 70TH ST_DRAWING.DWG

RA CONSULTANTS LLC